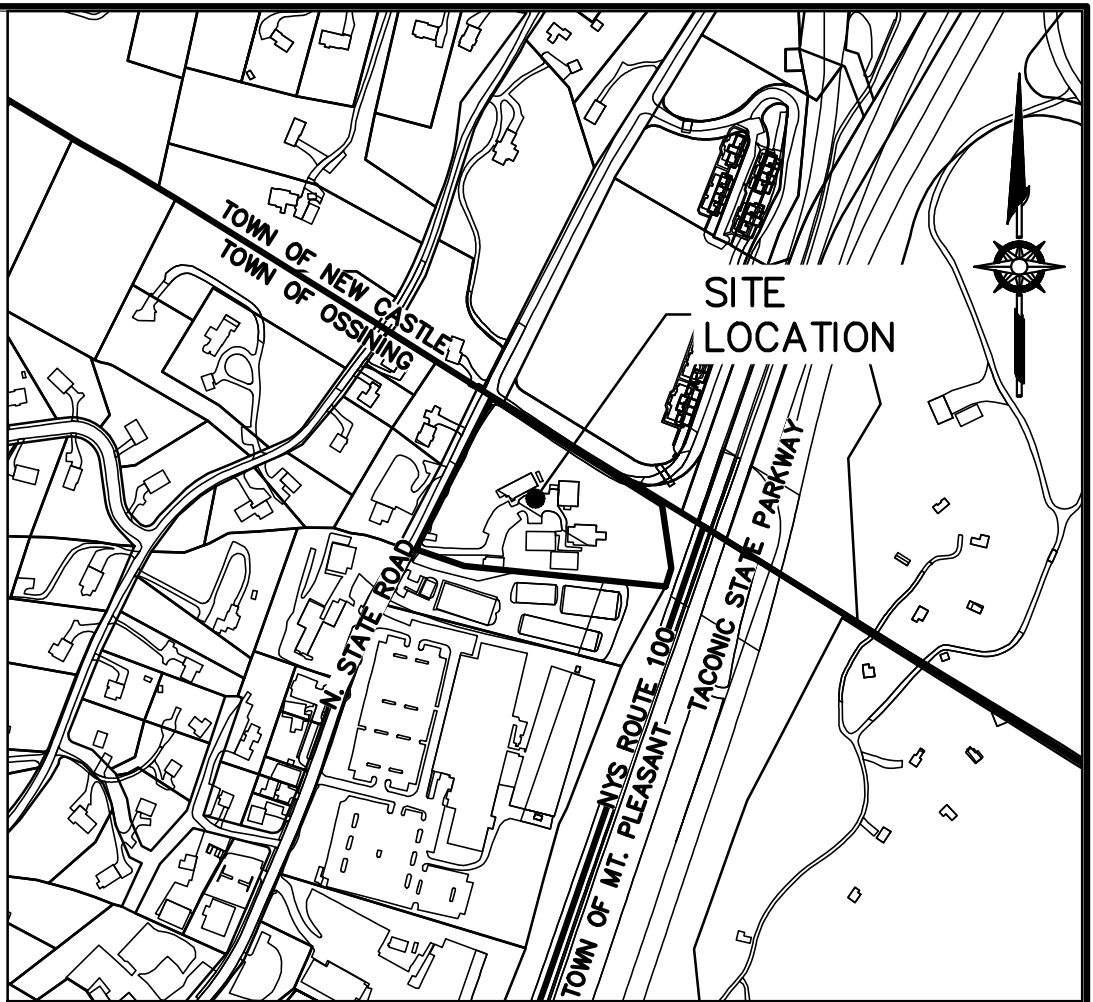


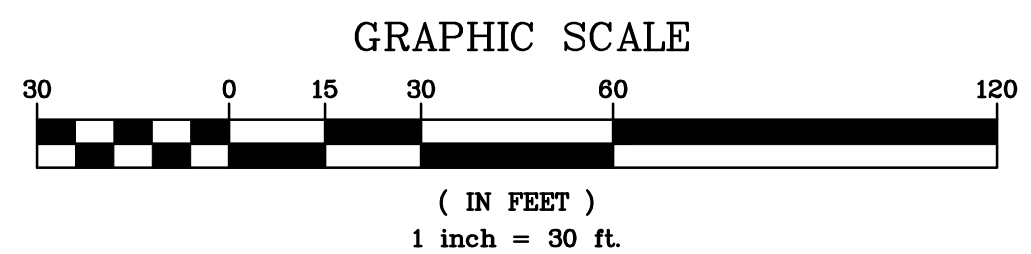
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SITE LOCATION MAP

SCALE: 1"=500'

EXISTING INFORMATION SHOWN HEREON
HAS BEEN PROVIDED BY SUMMIT LAND
SURVEYORS, DATED JANUARY 31, 2016



1/25/18	1/25/18
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PROJECT: SPCA OF WESTCHESTER
590 NORTH STATE ROAD
TOWN OF OSSINING
WESTCHESTER COUNTY - NEW YORK

EXISTING CONDITIONS MAP

HEC

HUDSON
ENGINEERING
CONSULTING, P.C.
45 Knollwood Road - Suite 201
Elmsford, New York 10523
T: 914-909-0420
F: 914-560-2086

STATE OF NEW YORK
MICHAEL J. STERN
LICENSED PROFESSIONAL ENGINEER
No. 60651

Date: 2/27/18
Scale: 1" = 30'
Designed By: D.C.
Checked By: M.S.
Sheet No. 11

C-1

LEGEND

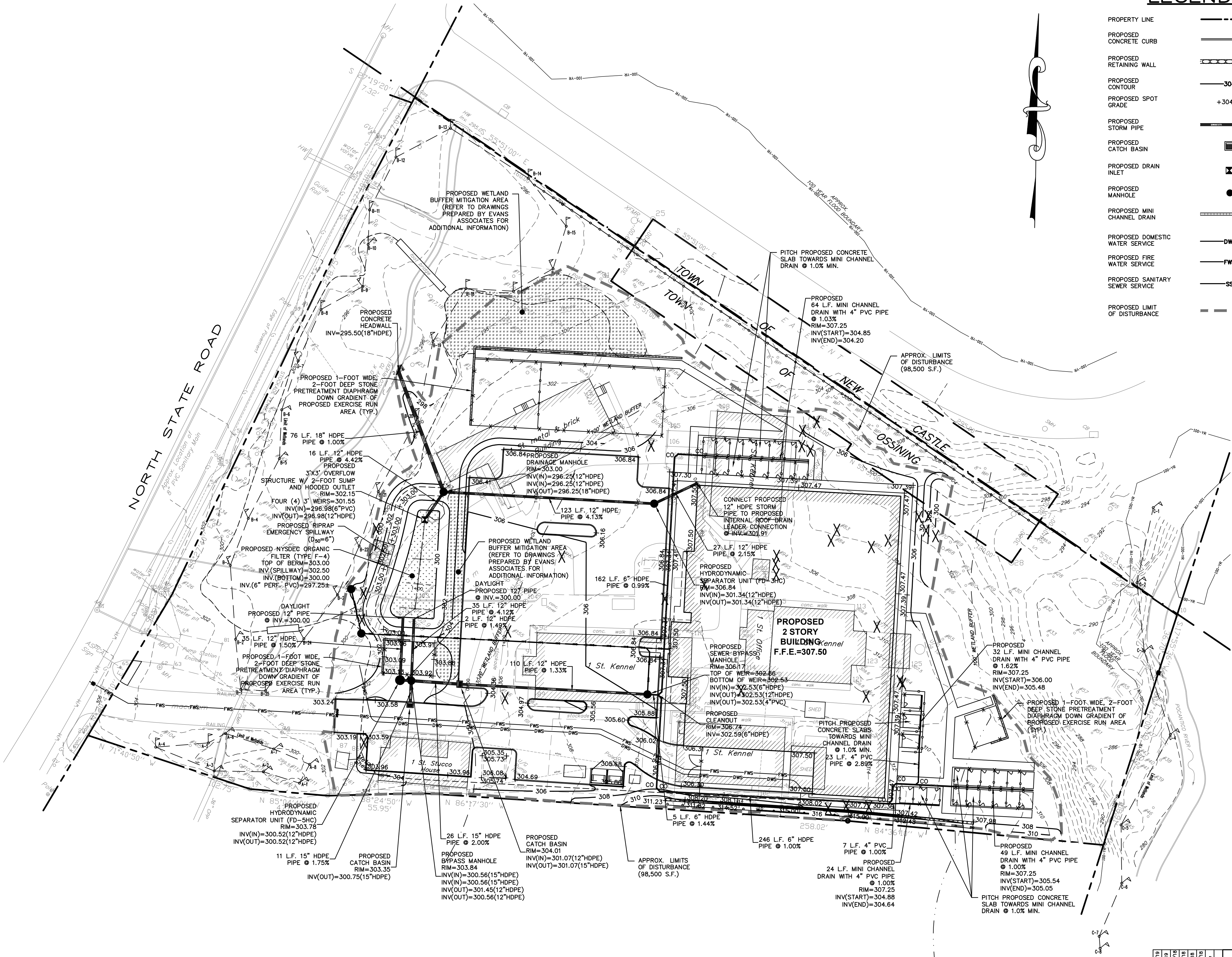
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PROPOSED CONCRETE CURB	=====
PROPOSED RETAINING WALL	=====
PROPOSED CONTOUR	-----304-----
PROPOSED SPOT GRADE	+304.25
PROPOSED STORM PIPE	=====
PROPOSED CATCH BASIN	=====
PROPOSED DRAIN INLET	=====
PROPOSED MANHOLE	=====
PROPOSED MINI CHANNEL DRAIN	=====
PROPOSED DOMESTIC WATER SERVICE	-----DWS-----
PROPOSED FIRE WATER SERVICE	-----FWS-----
PROPOSED SANITARY SEWER SERVICE	-----SS-----
PROPOSED LIMIT OF DISTURBANCE	-----

GENERAL NOTES:

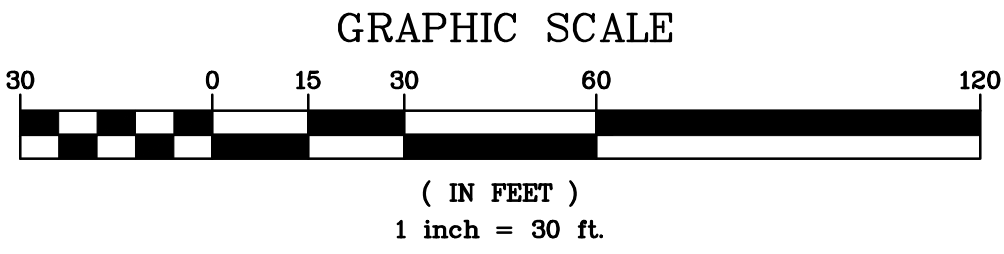
1. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE SUPERVISION OF THE CONSTRUCTION.
2. NO CHANGES SHALL BE MADE TO THESE PLANS EXCEPT AS PER NYS LAW CHAPTER 987.
3. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL APPLICABLE CODES, INCLUDING BUT NOT LIMITED TO A.C.I., A.S.C., ZONING, AND THE NEW YORK STATE BUILDING CODE.
4. ALL CONDITIONS, LOCATIONS AND DIMENSIONS SHALL BE FIELD VERIFIED AND THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY DISCREPANCIES.
5. ALL CHANGES MADE TO THE PLANS SHALL BE APPROVED BY THE ENGINEER AND ANY SUCH CHANGES SHALL BE FILED AS AMENDMENTS TO THE ORIGINAL BUILDING PERMIT.
6. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR THE ACTS AND OMISSIONS OF HIS EMPLOYEES, SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES, AND OTHER PERSONS PERFORMING ANY OF THE WORK UNDER A CONTRACT WITH THE CONTRACTOR.
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10. FINAL GRADING AROUND THE BUILDING AREA SHALL SLOPE AWAY FROM THE STRUCTURE.
11. ALL WRITTEN DIMENSIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER ANY SCALED DIMENSIONS.
12. ADJOINING PUBLIC AND PRIVATE PROPERTY SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION, REMODELING AND DEMOLITION WORK. PROTECTION MUST BE PROVIDED FOR FOOTINGS, FOUNDATIONS, PARTY WALLS, CHIMNEYS, SKYLIGHTS AND ROOFS. PROVISIONS SHALL BE MADE TO CONTROL WATER RUNOFF AND EROSION DURING CONSTRUCTION OR DEMOLITION ACTIVITIES. THE PERSON MAKING OR CAUSING AN EXCAVATION TO BE MADE SHALL PROVIDE WRITTEN NOTICE TO THE OWNERS OF ADJOINING BUILDINGS ADVISING THEM THAT THE EXCAVATION IS TO BE MADE AND THAT THE ADJOINING BUILDING SHOULD BE PROTECTED. SAID NOTICE SHALL BE DELIVERED NOT LESS THAN 10 DAYS PRIOR TO THE SCHEDULED STARTING DATE OF THE EXCAVATION.
13. OWNER SHALL INSURE THAT THE INSURANCE PROVIDED BY THE CONTRACTOR HIRED TO PERFORM THE WORK SHALL BE ENDORSED TO NAME HUDSON ENGINEERING & CONSULTING, P.C., AND ANY DIRECTORS, OFFICERS, EMPLOYEES, SUBSIDIARIES, AND AFFILIATES, AS ADDITIONAL INSURED ON ALL POLICIES AND HOLD HARMLESS DOCUMENTS, AND SHALL STIPULATE THAT THIS INSURANCE IS PRIMARY, AND THAT ANY OTHER INSURANCE OR SELF-INSURANCE MAINTAINED BY HUDSON ENGINEERING & CONSULTING, P.C., SHALL BE EXCESS ONLY AND SHALL NOT BE CALLED UPON TO CONTRIBUTE WITH THIS INSURANCE. ISO ADDITIONAL INSURED ENDORSEMENT FORM NUMBER C020101185 UNDER GL. COPIES OF THE INSURANCE POLICIES SHALL BE SUBMITTED TO AND HUDSON ENGINEERING & CONSULTING, P.C., FOR APPROVAL PRIOR TO THE SIGNING OF THE CONTRACT.
14. INDUSTRIAL CODE RULE 753: THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS PRIOR TO THE START OF HIS OPERATIONS AND SHALL COMPLY WITH ALL THE LATEST INDUSTRIAL CODE RULE 753 REGULATIONS.

MAINTENANCE OF ANIMAL WASTE:

1. ALL ANIMAL WASTE SHALL BE PROMPTLY PICKED UP BY THE SPCA EMPLOYEES/VOLUNTEERS AND BE DISPOSED OF IN TRASH RECEPTACLES LOCATED THROUGHOUT THE PROPERTY.



EXISTING INFORMATION SHOWN HEREON HAS BEEN PROVIDED BY SUMMIT LAND SURVEYORS, DATED JANUARY 31, 2016



1/28/19	REVISED PER TOWN COMMENTS
1/7/19	REVISED PER TOWN COMMENTS
11/28/18	PLANNING BOARD SUBMISSION
10/27/18	REVISED PER CLIENT MEETING
4/12/18	REVISED PER CLIENT MEETING
2/22/18	REVISED PER CLIENT MEETING
1/28/19	REVISED PER CLIENT MEETING

THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEERS SEAL & SIGNATURE

PROJECT: SPCA OF WESTCHESTER
590 NORTH STATE ROAD
TOWN OF OSSINING
WESTCHESTER COUNTY - NEW YORK
STORMWATER MANAGEMENT
& GRADING PLAN



HUDSON
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& CONSULTING, P.C.
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Date: 2/27/18 Sheet: 3
Scale: 1" = 30'
Designed By: D.C.
Checked By: M.S.
Sheet No. C-3

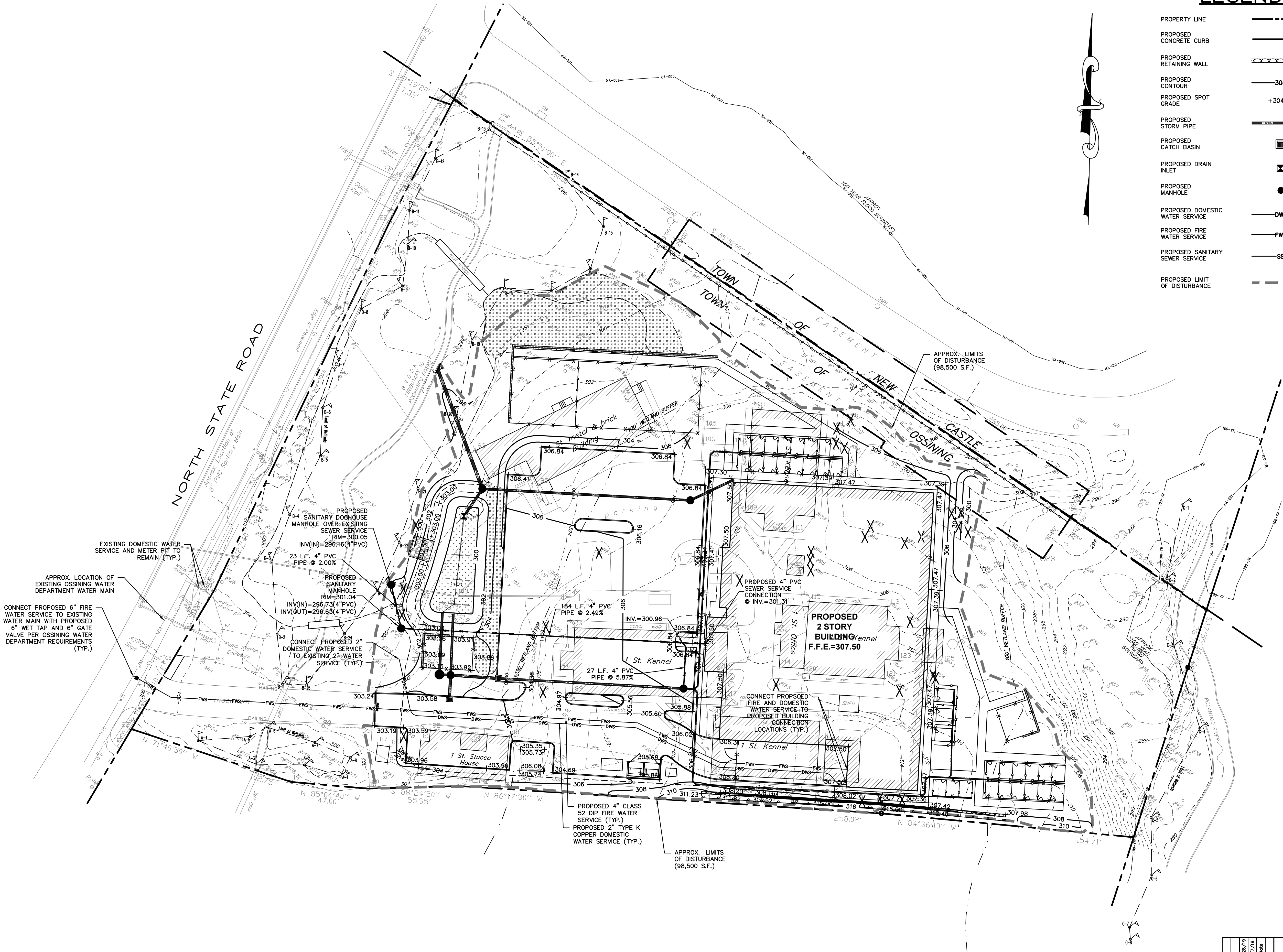
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LEGEND

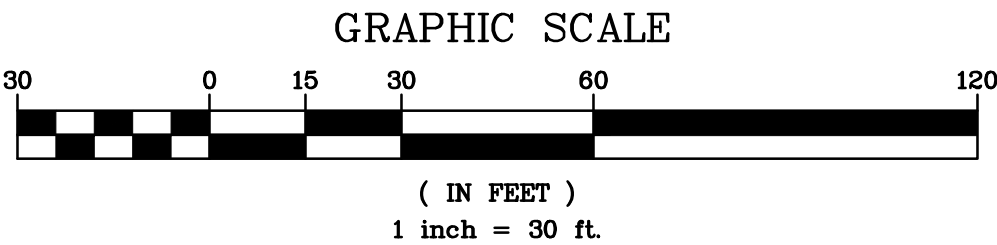
PROPERTY LINE	----
PROPOSED CONCRETE CURB	=====
PROPOSED RETAINING WALL	-----
PROPOSED CONTOUR	-----304-----
PROPOSED SPOT GRADE	+304.25
PROPOSED STORM PIPE	-----
PROPOSED CATCH BASIN	-----
PROPOSED DRAIN INLET	-----
PROPOSED MANHOLE	-----
PROPOSED DOMESTIC WATER SERVICE	-----DWS-----
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PROPOSED LIMIT OF DISTURBANCE	-----

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EXISTING INFORMATION SHOWN HEREON
HAS BEEN PROVIDED BY SUMMIT LAND
SURVEYORS, DATED JANUARY 31, 2016



REVISIONS 1. 1/29/19 2. 1/29/19 3. 1/29/19 4. 1/29/19	PROJECT: SPCA OF WESTCHESTER 590 NORTH STATE ROAD TOWN OF OSSINING WESTCHESTER COUNTY - NEW YORK	DATE: 11/26/18 SHEET: 4 DESIGNED BY: D.C. CHECKED BY: M.S. SHEET NO. 11
THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEER'S SEAL & SIGNATURE	UTILITY PLAN HUDSON ENGINEERING CONSULTING, P.C. 45 Knollwood Road - Suite 201 Elmsford, New York 10523 T: 914-909-0420 F: 914-560-2086 © 2019	 C-4

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LEGEND

- PROPERTY LINE
TEMPORARY INLET PROTECTION
TEMPORARY SILT FENCE
TEMPORARY SOIL STOCKPILE AREA
STABILIZED CONSTRUCTION ENTRANCE
TEST PIT LOCATION
PROPOSED LIMIT OF DISTURBANCE

INSTALLATION & MAINTENANCE OF EROSION CONTROL:

CONSTRUCTION SCHEDULE
NOTIFY APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 5 DAYS PRIOR TO START.

EROSION CONTROL MEASURES
INSTALL ALL EROSION CONTROL MEASURES PRIOR TO START OF CONSTRUCTION.
CALL FOR INSPECTION FROM THE APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 2 DAYS PRIOR TO FINISH.

INSPECTION BY MUNICIPALITY
MAINTENANCE (TO BE PERFORMED DURING ALL PHASES OF CONSTRUCTION)

AFTER ANY RAIN CAUSING RUNOFF, CONTRACTOR TO INSPECT HAYBALES, ETC. AND REMOVE ANY EXCESSIVE SEDIMENT AND INSPECT STOCKPILES AND CORRECT ANY PROBLEMS WITH SEED ESTABLISHMENT.
INSPECTIONS SHALL BE DOCUMENTED IN WRITING AND SUBMITTED TO THE APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION.

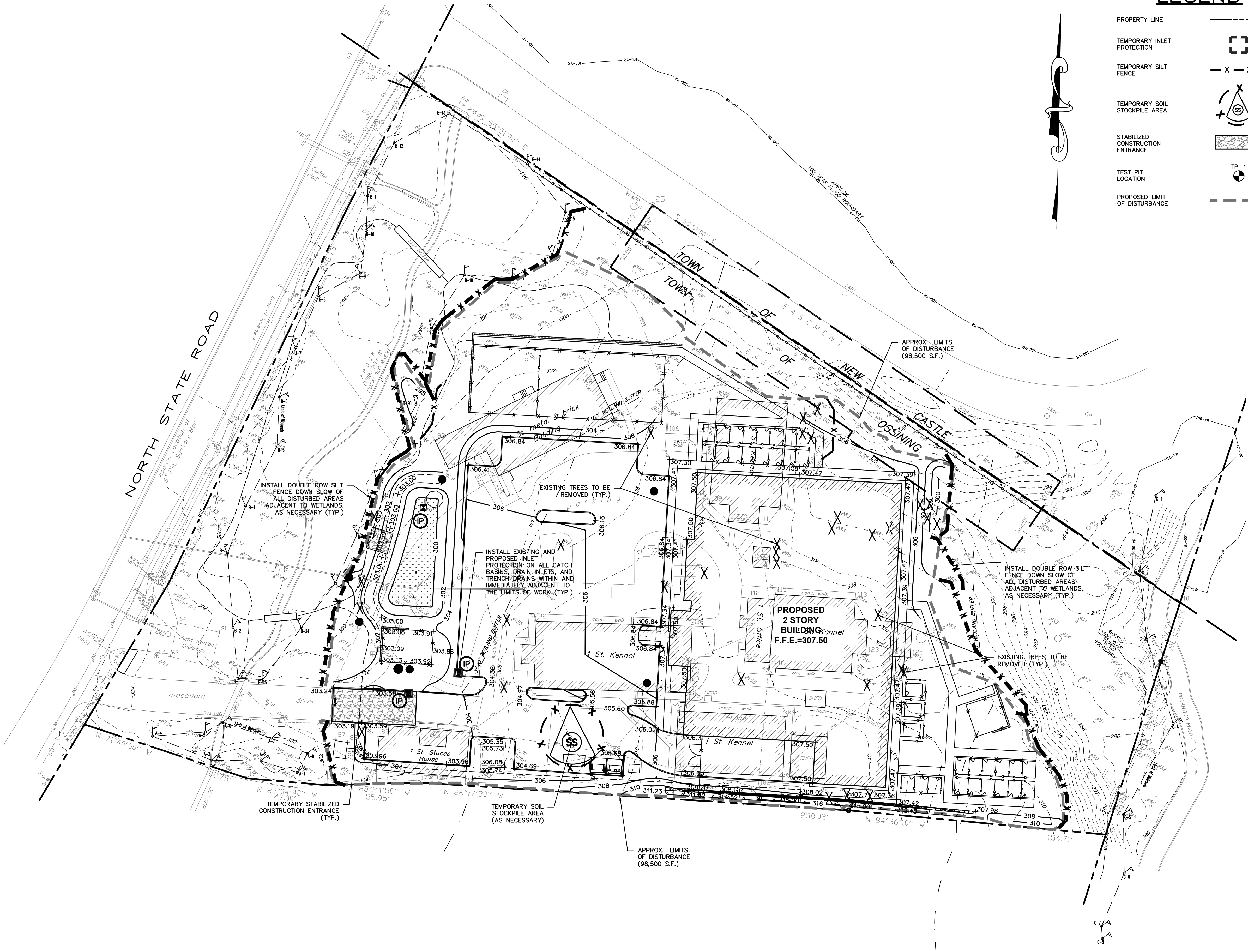
INSPECTION BY MUNICIPALITY - FINAL GRADING
REMOVE UNNEEDED SUBGRADE FROM SITE.
CALL FOR INSPECTION FROM THE APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 2 DAYS PRIOR TO FINISH.

INSPECTION BY MUNICIPALITY - LANDSCAPING
SPREAD TOPSOIL EVENLY OVER AREAS TO BE SEED. HAND RAKE LEVEL.
BROADCAST 1.25 LB. BAG OF JONATHAN GREEN "FASTGROW" MIX OR EQUAL OVER AREA TO BE SEED. APPLY STRAW MULCH AND WATER WITHIN 2 DAYS OF COMPLETION OF TOPSOILING. CALL FOR INSPECTION FROM THE APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 2 DAYS PRIOR TO FINISH.

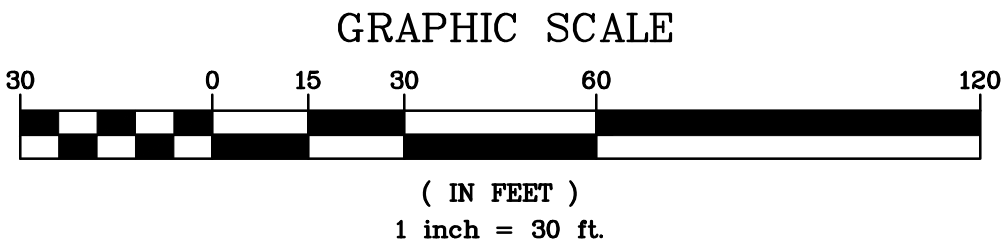
INSPECTION BY MUNICIPALITY - FINAL LANDSCAPING

GRASS ESTABLISHED.
CALL FOR INSPECTION FROM THE APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 2 DAYS PRIOR TO FINISH.

INSPECTION BY MUNICIPALITY - FINAL INSPECTION
ALL EROSION CONTROL MEASURES REMOVED AND GRASS ESTABLISHED.
CALL FOR INSPECTION FROM THE APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 2 DAYS PRIOR TO FINISH.



EXISTING INFORMATION SHOWN HEREON
HAS BEEN PROVIDED BY SUMMIT LAND
SURVEYORS, DATED JANUARY 31, 2016



1/28/19	REVISED PER TOWN COMMENTS
1/7/19	REVISED PER TOWN COMMENTS
11/28/18	PLANNING BOARD SUBMISSION
10/27/18	REVISED PER CLIENT MEETING
4/17/18	REVISED PER CLIENT MEETING
2/27/18	REVISED PER CLIENT MEETING
1/28/19	DATE

THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEERS SEAL & SIGNATURE

PROJECT:
SPCA OF WESTCHESTER
590 NORTH STATE ROAD
TOWN OF OSSINING
WESTCHESTER COUNTY - NEW YORK

EROSION & SEDIMENT CONTROL PLAN



HUDSON
ENGINEERING
&
CONSULTING, P.C.
45 Knollwood Road - Suite 201
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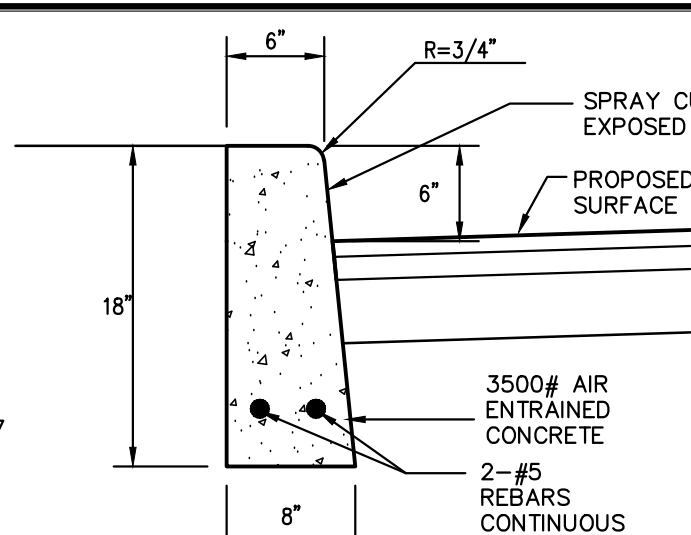


Date: 2/27/18 Sheet: 5
Scale: 1" = 30'
Designed By: D.C.
Checked By: M.S.
Sheet No.

C-5



A - 1 1/2" TOP COURSE- N.Y.S.D.O.T. ITEM, 403.1701, TYPE 2
 B - 4" BINDER COURSE- N.Y.S.D.O.T. ITEM, 403.13, TYPE 3
 C - 6" SUBBASE COURSE- N.Y.S.D.O.T. TYPE 2



NOTE:
EXPANSION JOINTS TO BE INSTALLED EVERY 10 FEET.

Diagram illustrating the cross-section of a 12" diameter manhole structure, showing the shaft, lining, and surrounding backfill materials.

Labels and Dimensions:

- 12" O.D. (Outer Diameter)
- 12' (Length of the shaft section)
- 12" + 1/2 DIA. COMPACTED SELECT GRANULAR MATERIAL BACKFILLED IN 9" LIFTS
- 1/2 O.D. SUBBASE COURSE TYPE 2
- 6" SUBBASE COURSE TYPE 2

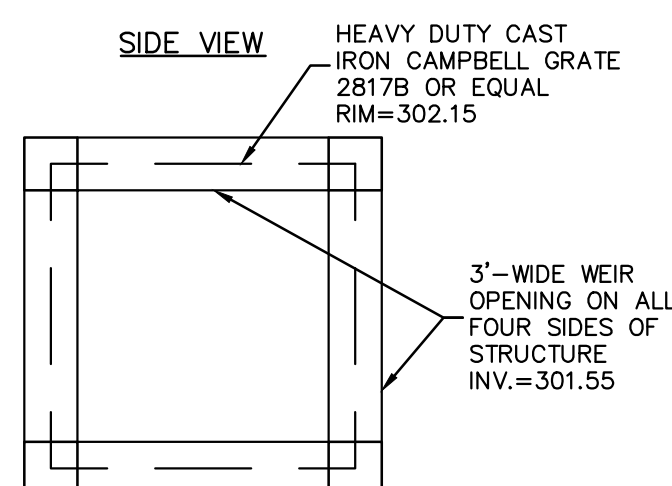
NDS MINI CHANNEL DRAIN
 CONCRETE MIN. 4" DEPTH.
 4" MIN.
 11" MIN.
 SLOPE
 RECESS CHANNEL 1/8" FROM TOP OF CONCRETE.
 EXPANSION JOINT
 NDS #230 ANCHOR STAKE
 6" COLLECTION PIPING SLOPED
 2" OUTLET PIPING SPACED @ 36" O.C.
 COMPACTED SOIL

NOTES:

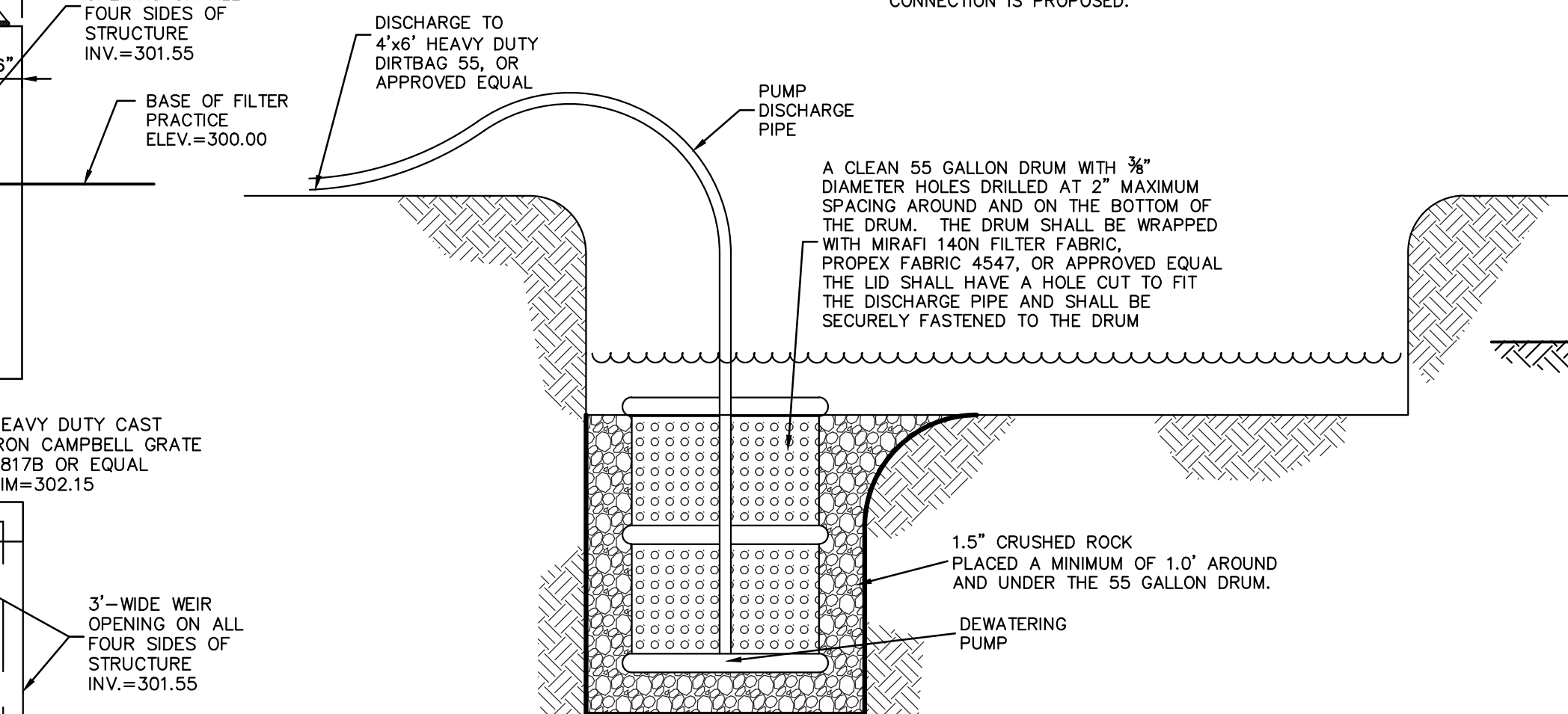
1. EXISTING SOILS SHOULD BE EVALUATED TO ENSURE PROPER STRUCTURAL AND PERMEABILITY PROPERTIES.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. DO NOT SCALE DRAWING.
4. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY.
5. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

Technical drawing of a rectangular structure, likely a weir or culvert, showing dimensions and material specifications:

- Overall width: 48"
- Overall height: 6"
- Internal width: 36"
- Internal height: 6"
- Material: HEAVY DUTY CAST IRON CAMPBELL GRATE 2817B OR EQUAL RIM=302.15
- Opening: 3'-WIDE WEIR OPENING ON FOUR SIDES OF STRUCTURE INV.=301.55
- Base: BASE OF PRACTICE ELEV.=



TOP VIEW

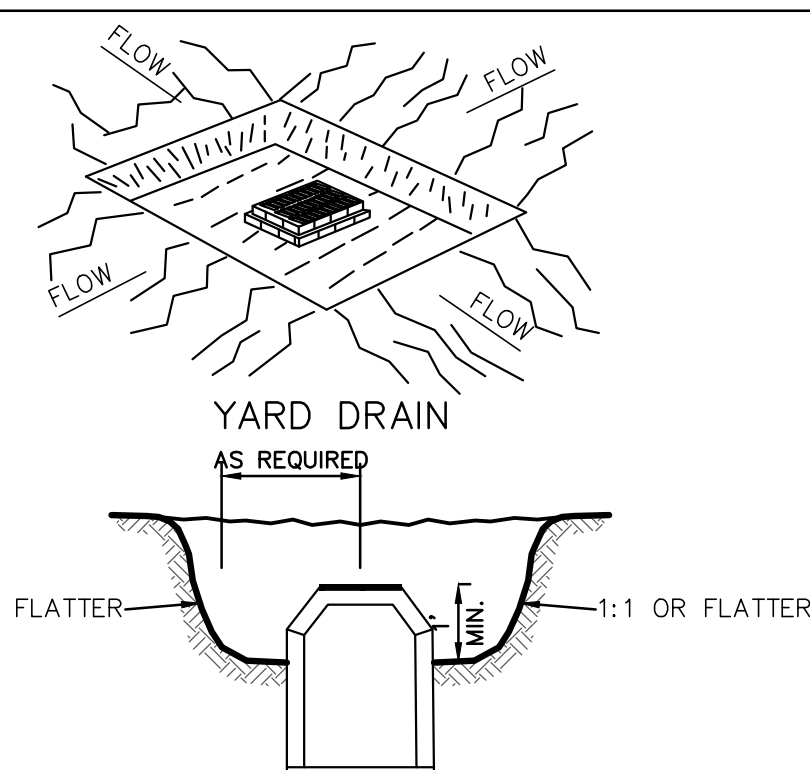


A diagram showing a tree with a drip line indicated by a dashed circle. A snow fence is shown as a series of vertical posts connected by a horizontal line. The fence is positioned between the tree and a board fence. Labels include: DRIP LINE, SNOW FENCE, BOARD FENCE, and CORD FENCE.

The image contains two separate line drawings. The drawing on the left depicts a tree with a thick, textured trunk and a dense, rounded canopy of leaves. A simple wooden fence, consisting of vertical posts and horizontal rails, is positioned around the base of the tree trunk. The drawing on the right shows a tree stump. The stump is a vertical cylinder with a flat top, featuring a pattern of diagonal lines to represent wood grain. It has a single, large, irregular root extending horizontally from its base.

TRIANGULAR BOARD FENCE

CORRECT TRUNK ARMORING



CROSS SECTION

CONSTRUCTION SPECIFICATIONS:

CONSTRUCTION SPECIFICATIONS

1. THE EROSION CONTROL TRAP SHALL BE REMOVED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND STABILIZED.

2. THE VOLUME OF SEDIMENT STORAGE SHALL BE 3600 CUBIC FEET PER ACRE OF CONTRIBUTORY DRAINAGE.

3. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.

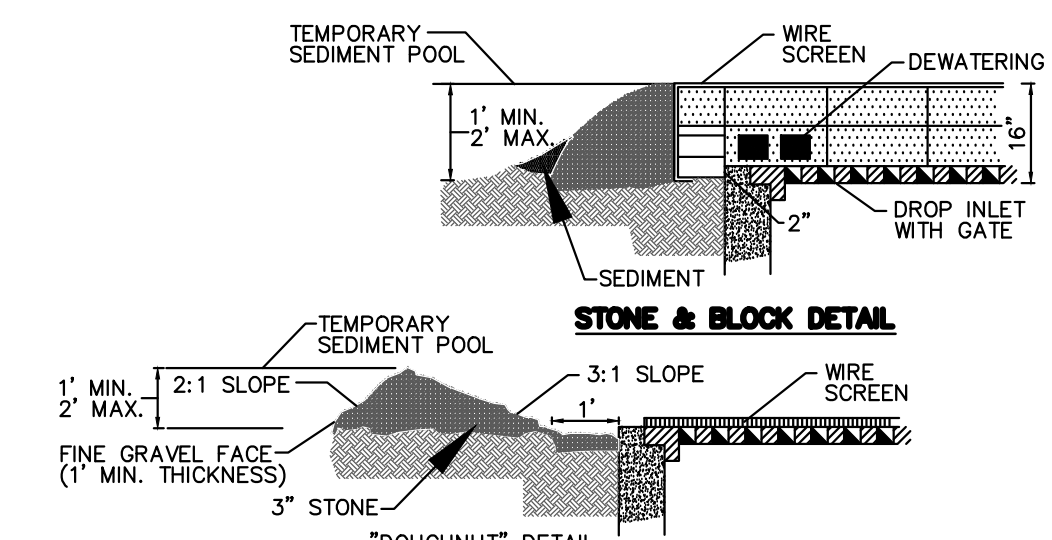
4. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND SEDIMENT ARE CONTROLLED.

5. THE SEDIMENT TRAP SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE ACCUMULATED DRAINAGE AREA IS GREEN PRAIRIE OR STABILIZED.

6. ALL OUT-OF-SPICES SHALL BE: 11" OR FLATTER, MAXIMUM DRAINAGE AREA = 3-ACRES

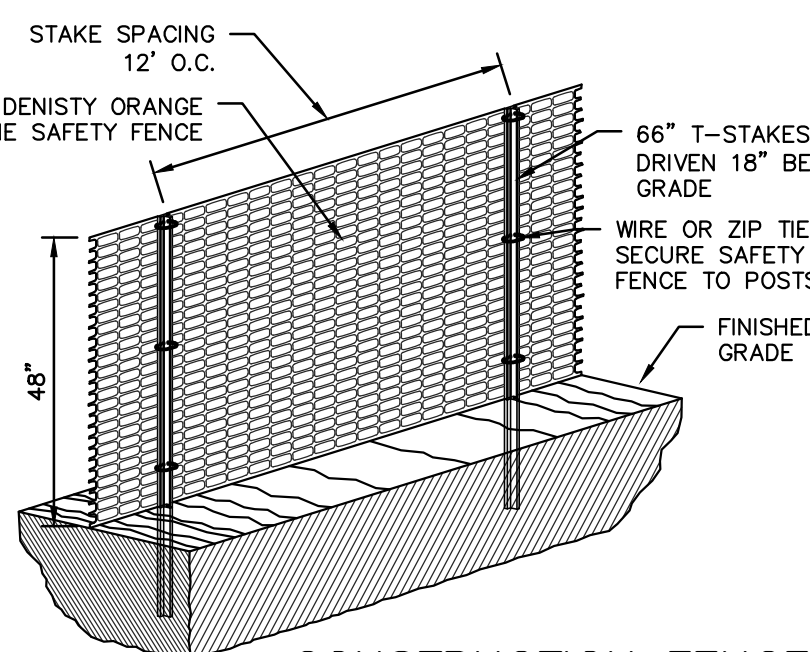
STONE & BLOCK PLAN VIEW

STONE & BLOCK PLAN VIEW

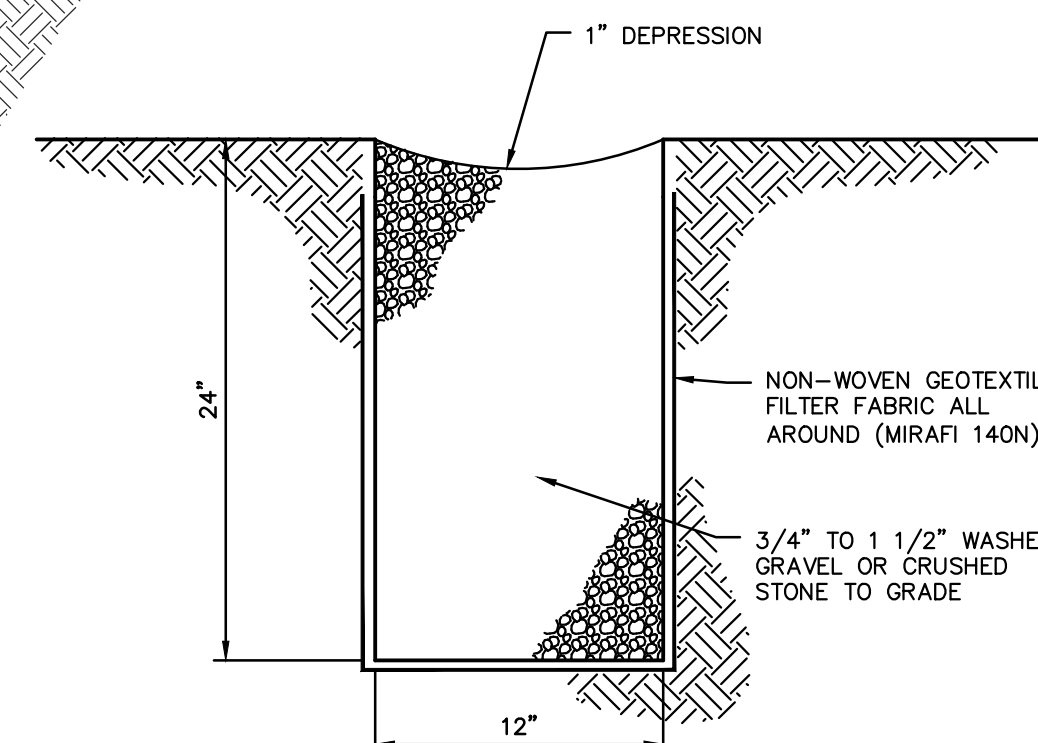


CONSTRUCTION SPECIFICATION

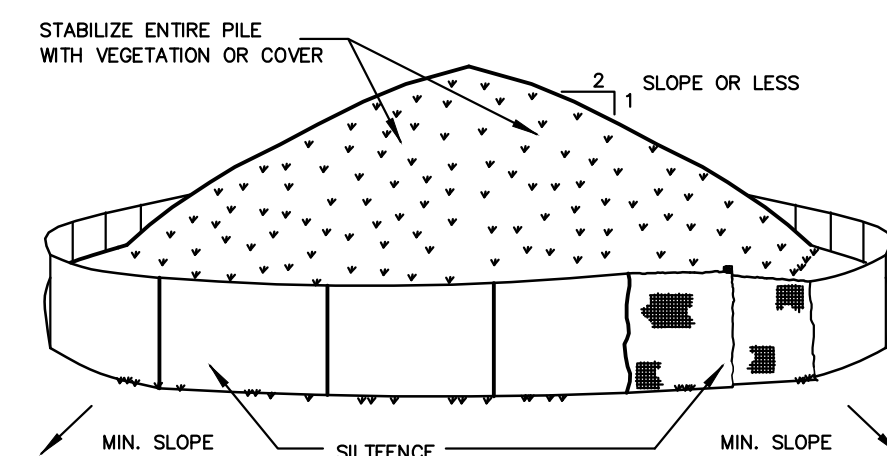
1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARECLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS. MAXIMUM DRAINAGE AREA 1 ACRE.



CONSTRUCTION FENCE



STONE PRETREATMENT
DIAPHRAGM



INSTALLATION NOTES

INSTALLATION NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. SOLIDS OR FILL TO BE STOCKPILED ON SITE DURING CUTTING AND FILLING ACTIVITIES SHOULD BE LOCATED ON LEVEL PORTIONS OF THE SITE WITH A MINIMUM OF 40-75 FEET SEPARATIONS FROM TEMPORARY DRAINAGE SWALES.
3. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
4. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.
5. STOCKPILES REMAINING IN PLACE FOR MORE THAN A WEEK SHOULD BE SEEDED AND MULCHED OR COVERED WITH GEOTEXTILE FABRIC SURROUNDED BY SILT FENCE.
6. SEE SPECIFICATIONS (THIS MANUAL) FOR INSTALLATION OF SILT FENCE.

Technical drawing showing a cross-section and plan view of a stone filter structure.

Cross-section (SECTION):

- Width: 25' MIN. WIDTH
- Height: 3 IN. CLEAN STONE
- Top layer: 0"
- Bottom layer: 0"
- Labels: SECTION, COMPACTED SUBGRAD, FILTER FABRIC

Plan View (PLAN):

- Length: 50' MIN. LENGTH
- Labels: PART AT EXIST., MOVEMENT

SECTION

INSTALLATION NOTES:

- STONE SIZE - USE 3" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - AS REQUIRED, BUT NOT LESS THAN 50' FEET (EXCEPT ON A SINGLE TRAFFIC LANE ROAD, NOT MORE THAN 30' FEET).
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - 25' FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE TRAFFIC OCCURS.
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- TRUCK CLOTH WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
- TRAFFIC - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION TRANCHES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTAIN BARRIER WITH SLOPING WHEELS WILL BE REQUIRED.
- MAINTENANCE - THE TRAPPING SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT FLOWING OF SEDIMENT OUTSIDE PUBLIC RIGHT OF WAY THIS WAY REQUIRE PERIODIC INSPECTION AND REPAIR. REPAIRS SHALL BE MADE IMMEDIATELY. UNWASHED OR ANY MEASURES USED TO TRAP SEDIMENT, ALL SEDIMENT SIPPED, DROPPED, SCOURED OR TRACKED OUTSIDE PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY.
- WASHING - ALL STONE SHALL BE WASHED IMMEDIATELY AFTER EACH TRUCK LOAD ON PUBLIC RIGHT OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA ADJACENT WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

The diagrams illustrate the Toe-In Method for trench shoring. The left diagram is a cross-section of a trench. It shows a vertical post on the left side, with a support net attached to it. A filter fabric is placed over the backfill, and a flow arrow indicates the direction of the backfill. The backfill is shown as a shaded area, and the native soil is shown as a hatched area. The right diagram is a top view of the trench. It shows two sections, Section A and Section B, separated by a coupler. Posts are shown at the corners of the sections, and a toe-in method is indicated by arrows pointing towards the center of the sections.

JOINING SECTIONS OF FENCING

INSTALLATION NOTES:

1. EXCAVATE A 4 INCH * 4 INCH TRENCH ALONG THE LOWER PERIMETER OF THE SITE.
2. UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK OF THE REMOVAL OF THE TRENCH (NET SIDE AWAY FROM DIRECTION OF FLOW).
3. DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS APPROXIMATELY 2 INCHES FROM THE TRENCH BOTTOM.
4. LAY THE TOE-IN FLAP OF FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH. BACKFILL THE TRENCH AND TAMP THE SOIL. STEEPER SLOPES REQUIRE AN INTERCEPT TRENCH.
5. JOIN SECTIONS AS SHOWN ABOVE.

CA OF WESTCHESTER
NORTH STATE ROAD
TOWN OF OSSINING
STER COUNTY - NEW YORK

DETAILS

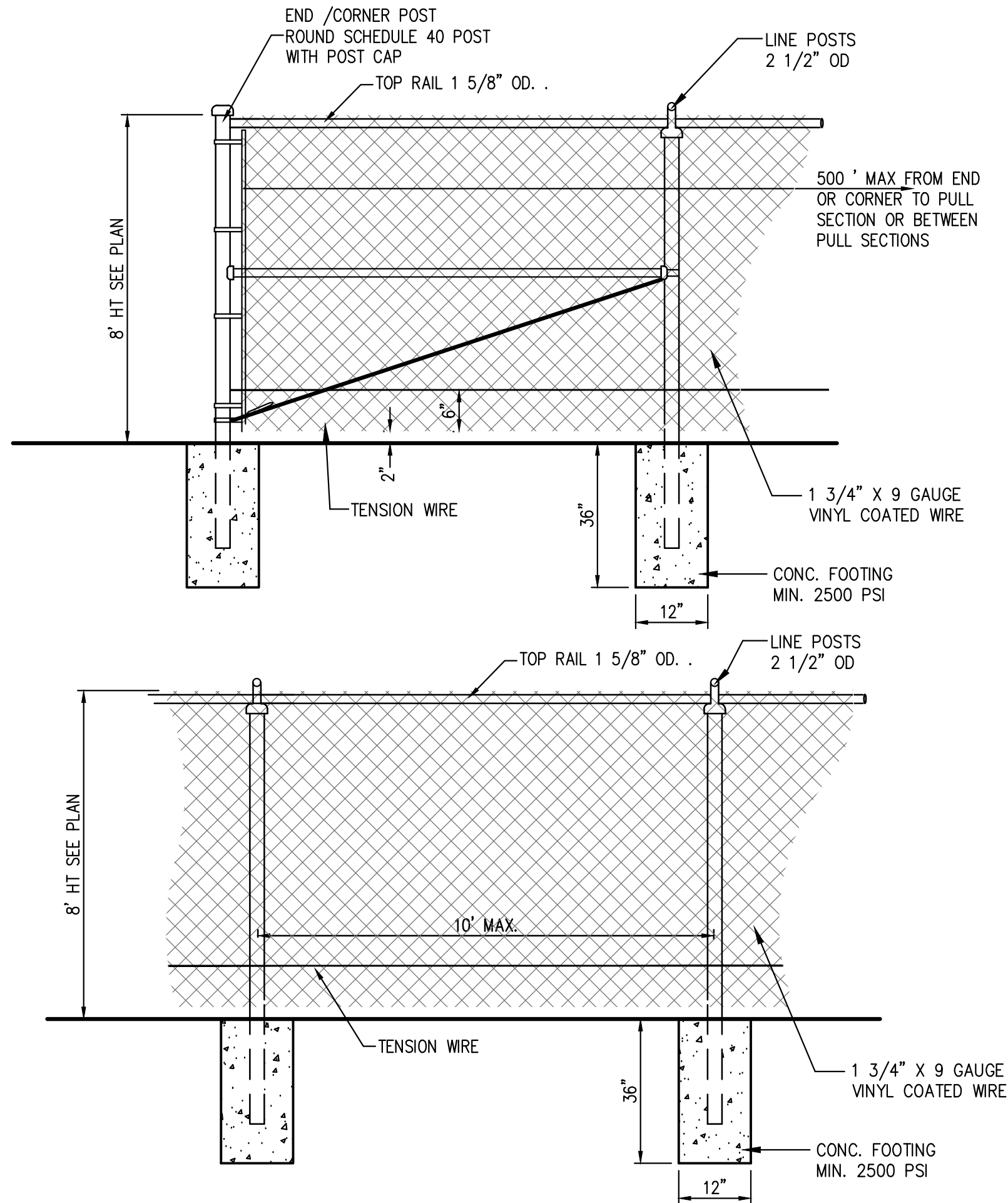
HUDSON
ENGINEERING
&
CONSULTING, P.C.
45 Knollwood Road - Suite 201

Date:	02/09/18	Sheet:	6
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Checked By:	M.S.		
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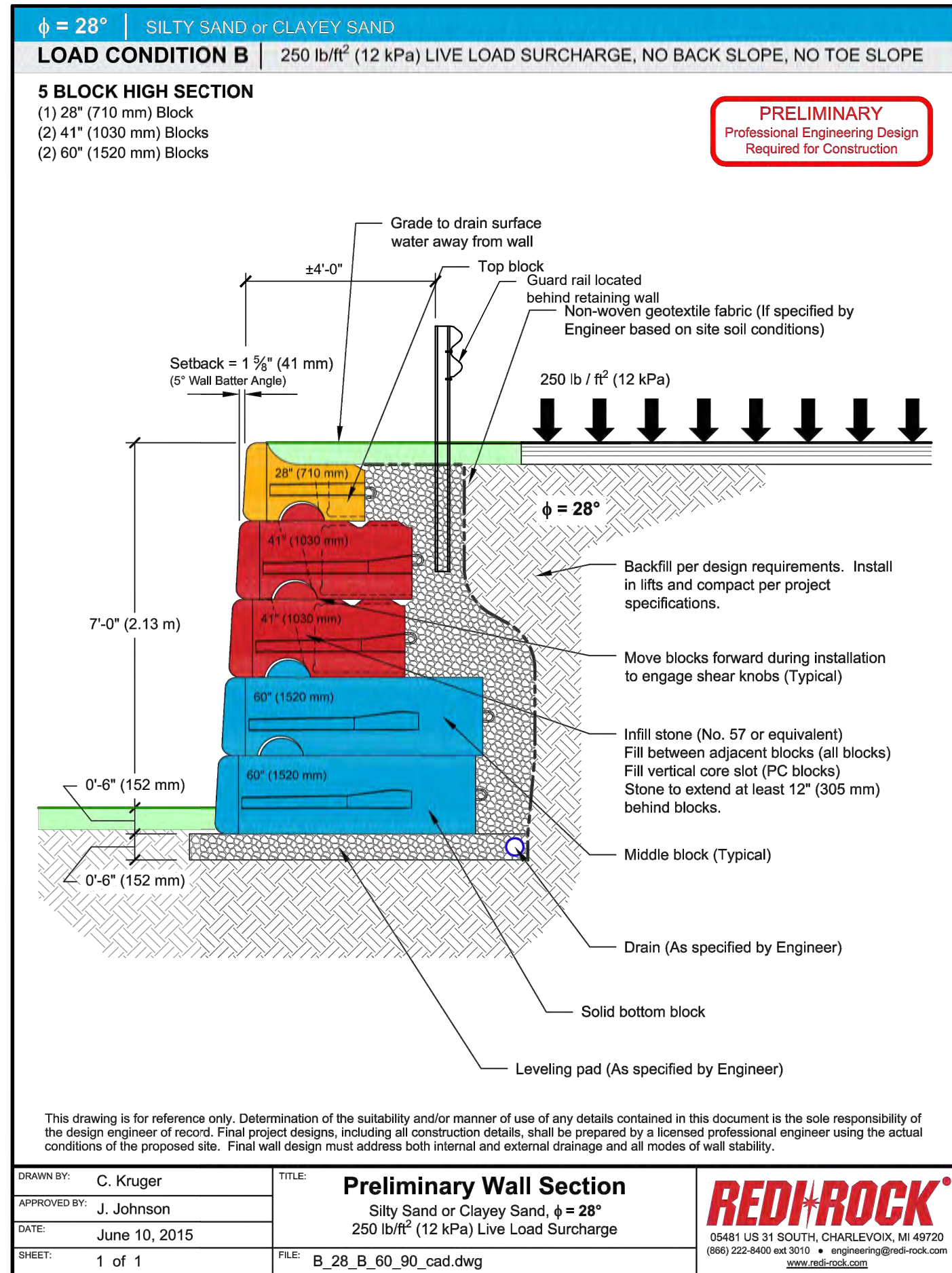
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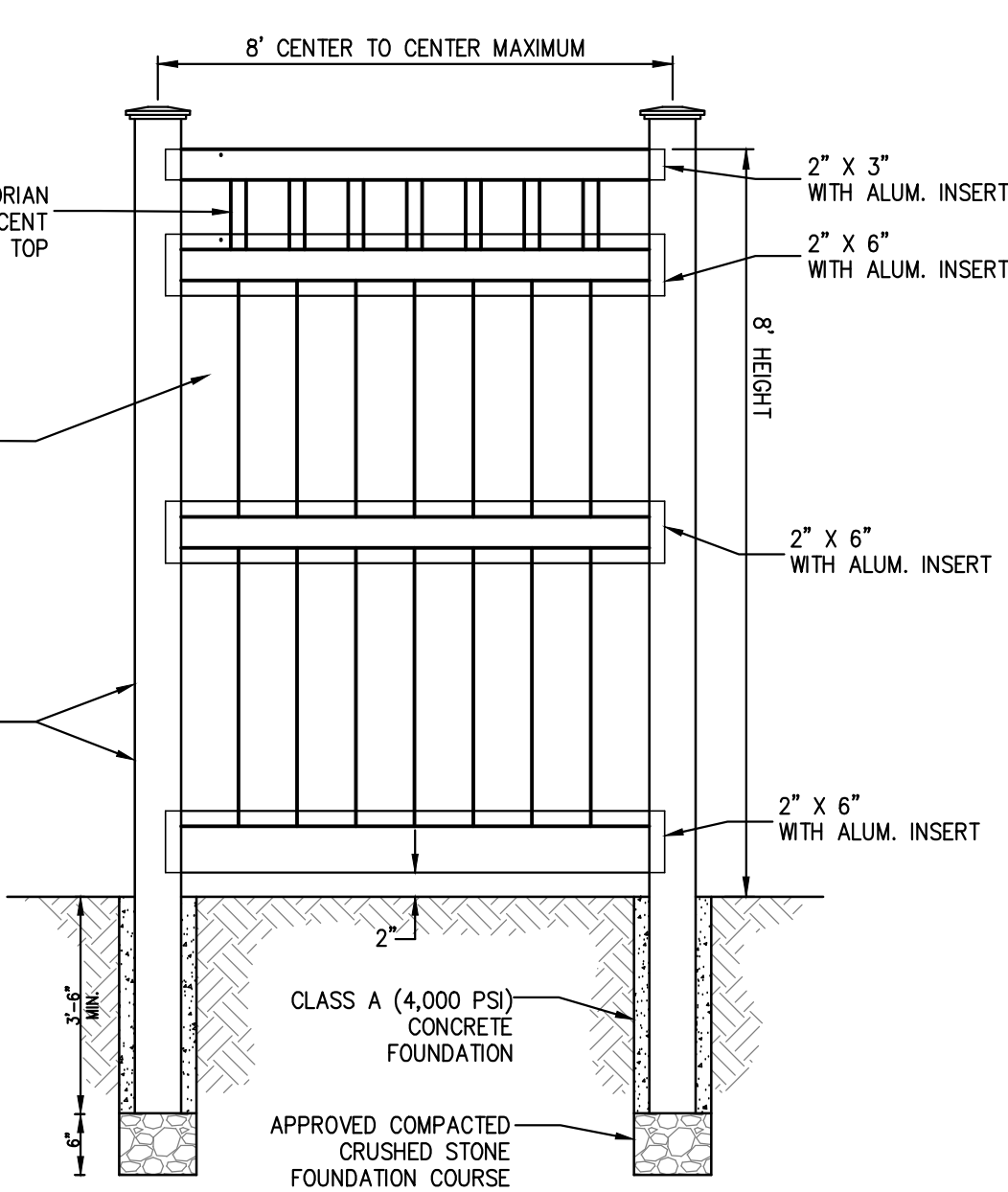
NOTE:

1. POSTS, INCLUDING ENCASEMENT SHALL BE SET INSIDE THE PROPERTY LINE SO THAT FENCING PLACED ON THE PROPERTY SIDE OF THE POSTS WILL BE AS NEARLY ON THE PROPERTY LINE AS POSSIBLE.
2. CORNER POSTS SHALL BE USED AT SHARP BREAKS IN VERTICAL GRADE, AND CHANGES IN HORIZONTAL ALIGNMENT OF 15 DEG. AND OVER. PULL POSTS SHALL BE USED EVERY 500' ON STRAIGHT RUNS OF CHAIN LINK FENCE OR AS DIRECTED BY THE ENGINEER.

8-FOOT HIGH CHAIN LINK FENCE



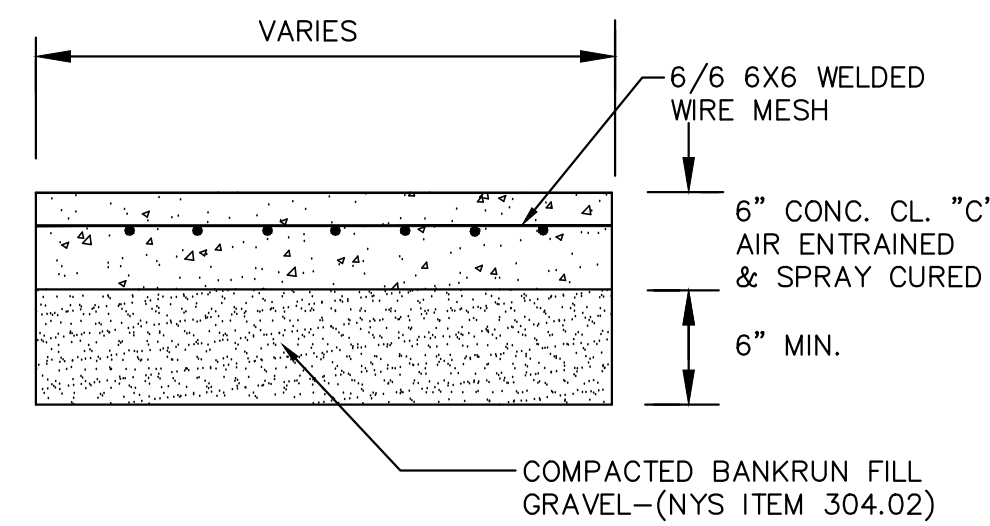
REDI-ROCK GRAVITY RETAINING WALL



NOTES:

1. FENCE SHALL BE BUFFTECH GALVESTON VINYL FENCE W/ VICTORIAN ACCENT AS MANUFACTURED BY CERTAINTED OR APPROVED EQUAL. THE COLOR SHALL BE GREY.
2. FENCE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO CONFIRM THAT THE OVERALL FENCE DIMENSIONS MEET THE ABOVE NOTED DESIGN.

8-FOOT HIGH PVC PRIVACY FENCE AT DOG KENNELS



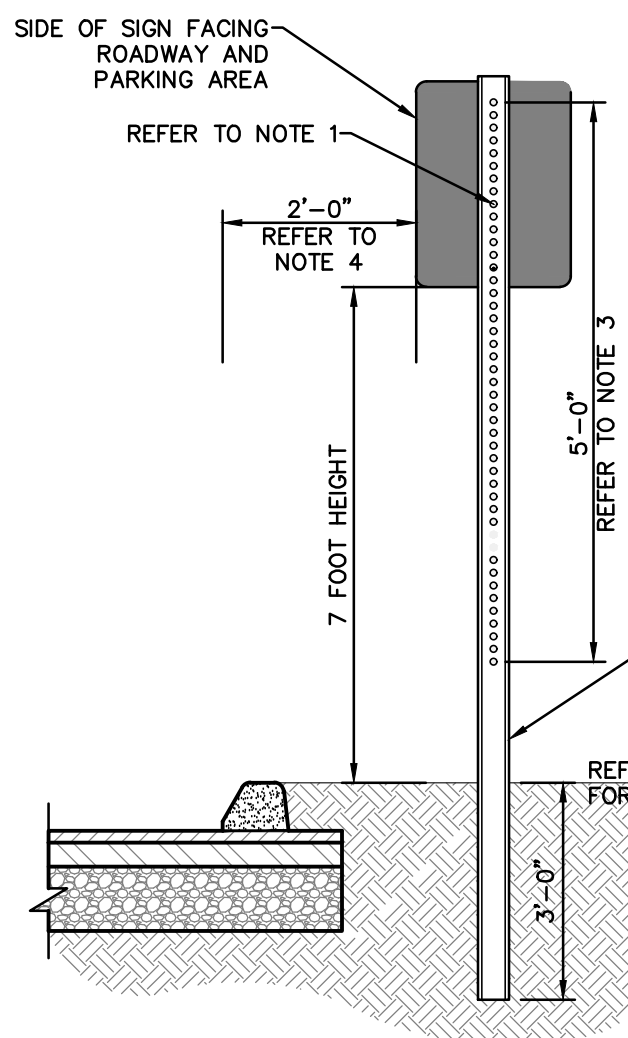
CONCRETE PAVEMENT AT DOG KENNELS



R7-8



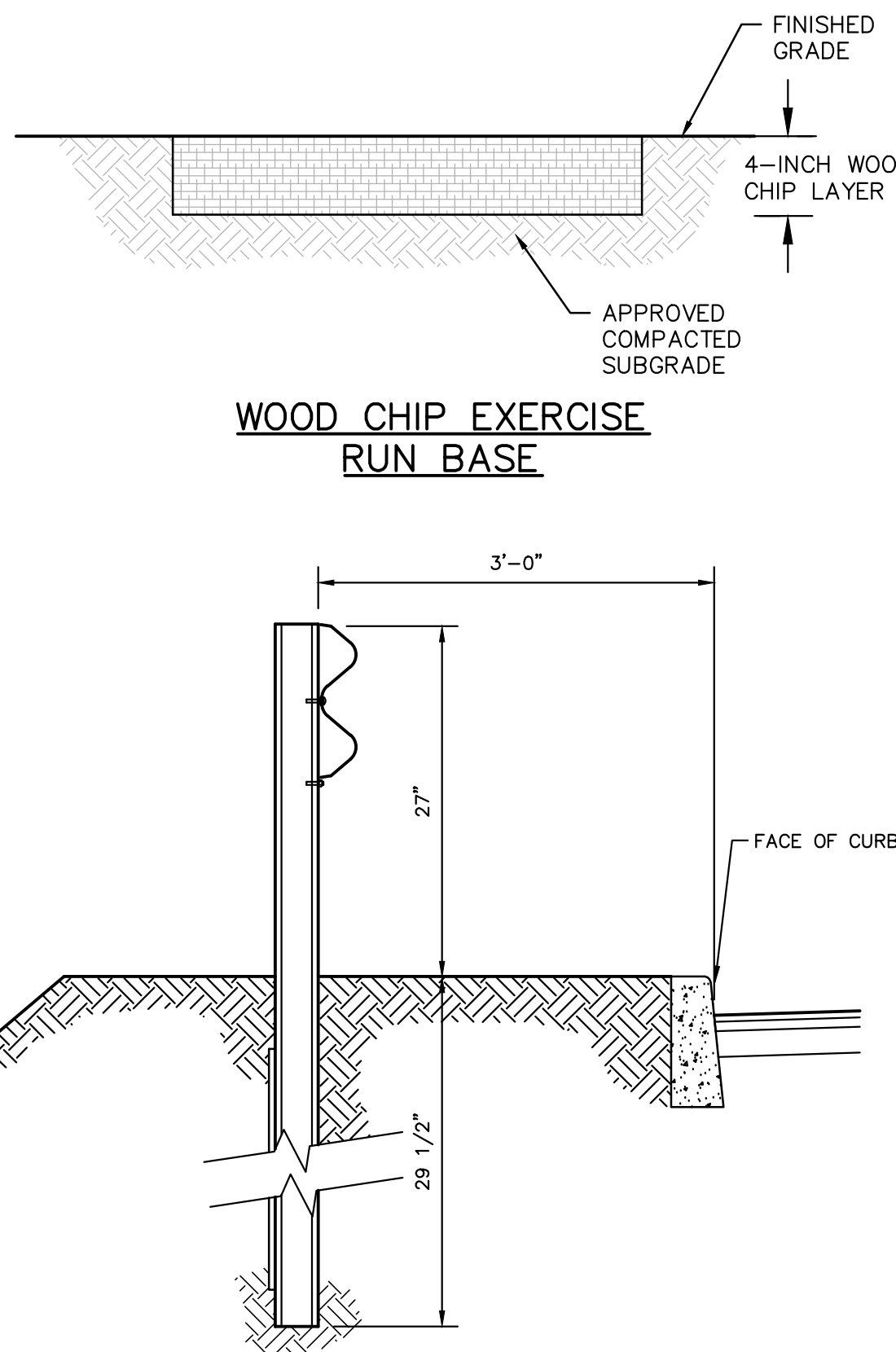
R1-1



NOTES:

1. SIGN BOLTS SHALL BE GALVANIZED STEEL WITH NUTS AND LOCK WASHERS WITH A DIAMETER OF 5/16 INCHES.
2. STEEL CHANNEL POST SHALL BE GALVANIZED WITH A GROSS WEIGHT OF 3 LBS. PER LINEAR FOOT (L.F.).
3. HOLES WITHIN STEEL CHANNEL POSTS SHALL BE 3/8 INCH DIAMETER SPACED 1 INCH ON-CENTER (O.C.).
4. EDGE OF SIGN SHALL BE PLACED 2 FEET BEHIND THE FACE OF CURB, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

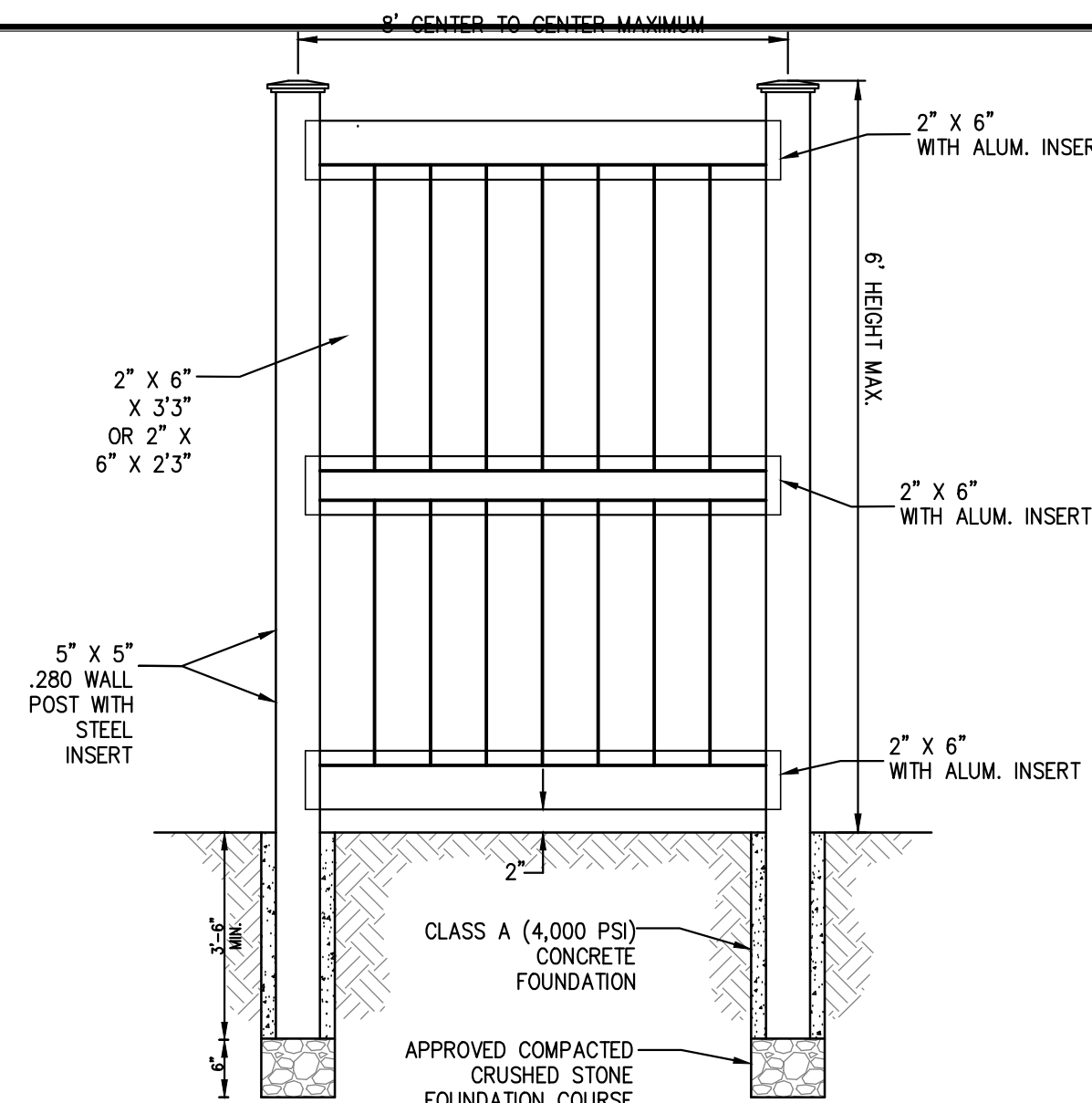
TRAFFIC SIGN POST (STEEL)



NOTES:

1. GUIDE RAIL CORRUGATED TYPE "W" WITH POST AT 6'-0" O.C.
2. N.Y.S.D.O.T. STANDARD DETAIL FOR CORRUGATED BEAM GUIDE RAILS.
3. N.Y.S.D.O.T. 606.6R2 FOR CORRUGATED BEAM GUIDE RAILING.
4. N.Y.S.D.O.T. 606.22 & 606.23 FOR ANCHORAGE UNITS.

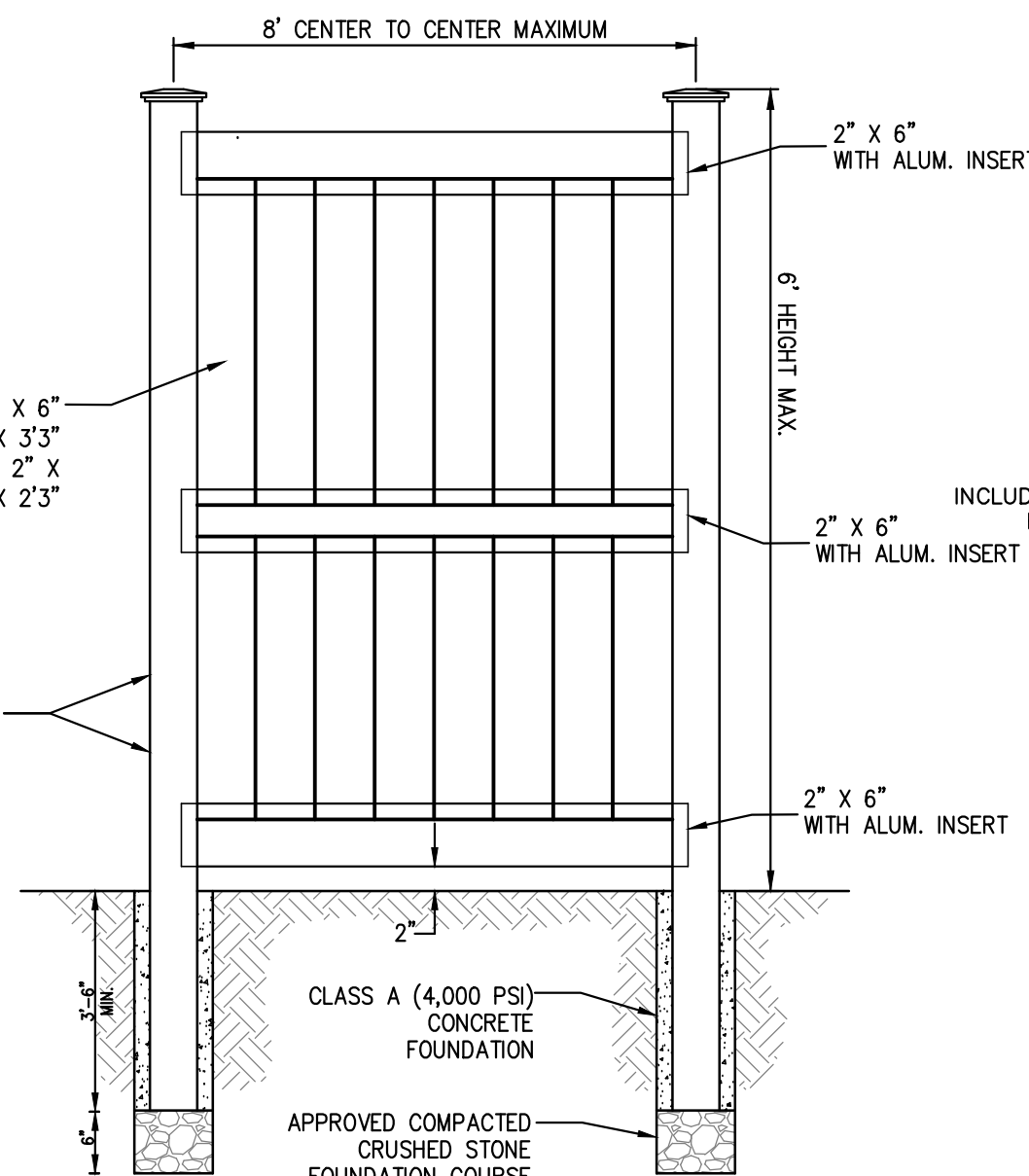
GUIDE RAIL



NOTES:

1. FENCE SHALL BE BUFFTECH GALVESTON VINYL FENCE AS MANUFACTURED BY CERTAINTED OR APPROVED EQUAL. THE COLOR SHALL BE GREY.
2. FENCE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO CONFIRM THAT THE OVERALL FENCE DIMENSIONS MEET THE ABOVE NOTED DESIGN.
4. NO PORTION OF THE FENCE SHALL EXCEED 6'-FEET IN HEIGHT

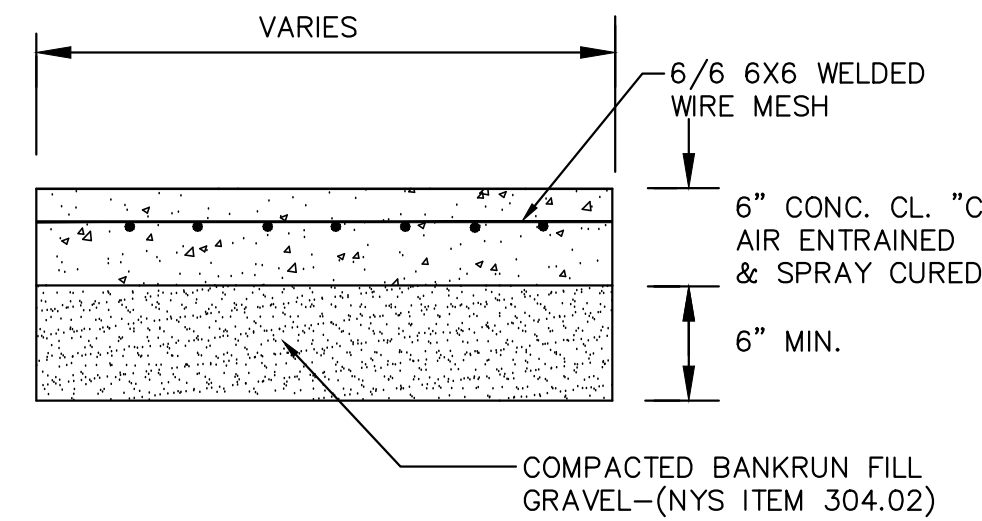
6-FOOT HIGH PVC PRIVACY FENCE AT TRASH ENCLOSURE



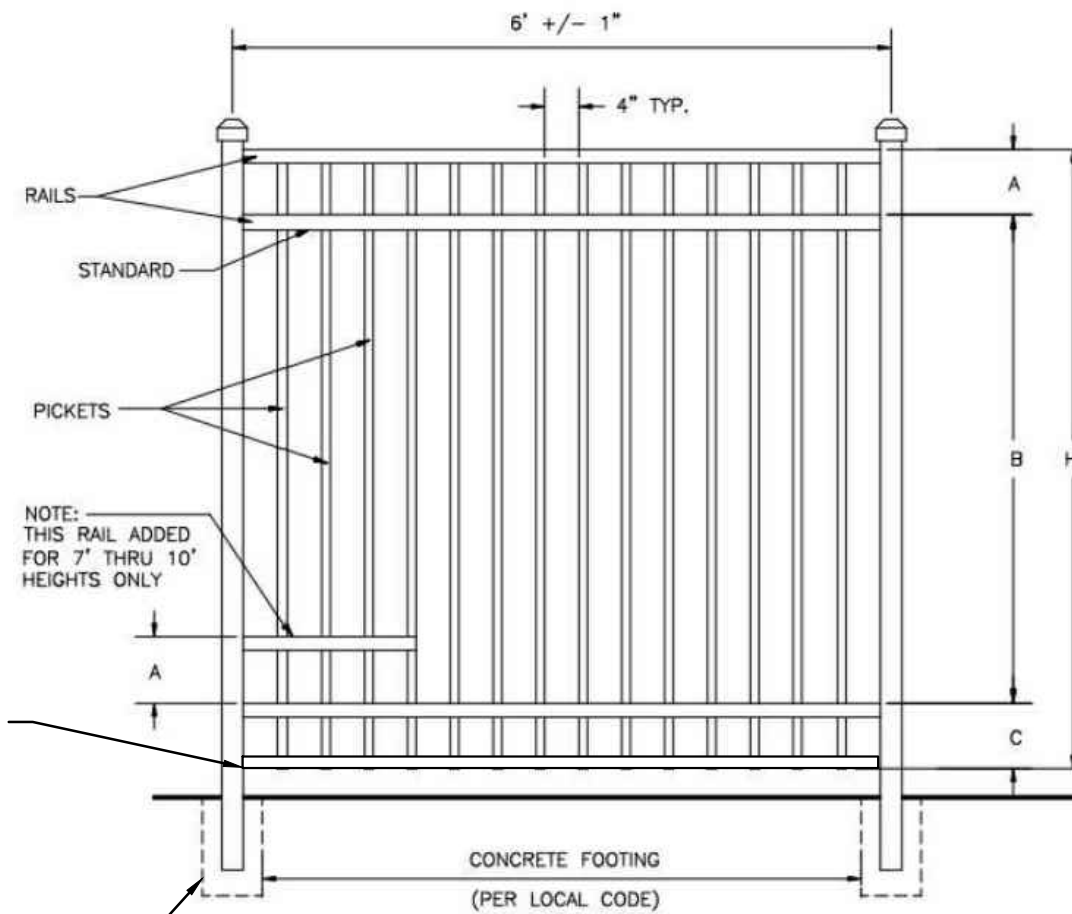
NOTES:

1. FENCE SHALL BE BUFFTECH GALVESTON VINYL FENCE AS MANUFACTURED BY CERTAINTED OR APPROVED EQUAL. THE COLOR SHALL BE GREY.
2. FENCE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO CONFIRM THAT THE OVERALL FENCE DIMENSIONS MEET THE ABOVE NOTED DESIGN.
4. NO PORTION OF THE FENCE SHALL EXCEED 6'-FEET IN HEIGHT

6-FOOT HIGH PVC PRIVACY FENCE ALONG NORTH PROPERTY BOUNDARY



CONCRETE PAVEMENT AT TRASH ENCLOSURE



DIMENSIONS						
HT	A	B	C	E	F	
4'	7 5/8"	32 3/4"	7 5/8"			PER LOCAL CODE
5'	7 5/8"	44 3/4"	7 5/8"			PER LOCAL CODE
6'	7 5/8"	56 3/4"	7 5/8"			PER LOCAL CODE
7'	10 5/8"	62 3/4"	10 5/8"			PER LOCAL CODE
8'	10 5/8"	74 3/4"	10 5/8"			PER LOCAL CODE
9'	13 5/8"	80 3/4"	13 5/8"			PER LOCAL CODE
10'	13 5/8"	92 3/4"	13 5/8"			PER LOCAL CODE

SPECIFICATIONS		INDUSTRIAL
POSTS		2 1/2"x2 1/2"x100 WALL 3"x3"x125 WALL 4"x4"x125 WALL
HORIZONTAL RAILS		1 5/8" x 1 5/8"
ENCLOSED BOTTOM SIDE WALLS		AVAILABLE .100"
TOP WALLS		.070"
PICKETS		1"x1"x.062 WALL 4"
PICKET SPACING		4"
AVAILABLE HEIGHTS		4, 5, 6, 7, 8, 9 & 10 FT.

8-FOOT HIGH DECORATIVE ALUMINUM FENCE

REVISIONS	DATE	BY	CHKD
1	11/26/18	J. Johnson	
THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEER'S SEAL & SIGNATURE			
PROJECT: SPCA OF WESTCHESTER 590 NORTH STATE ROAD TOWN OF OSSING WESTCHESTER COUNTY - NEW YORK			
DETAILS HUDSON ENGINEERING & CONSULTING, P.C. 45 Knollwood Road - Suite 201 Elmsford, New York 10523 T: 914-909-0420 F: 914-560-2086 © 2019			
Date: 11/26/18 Scale: N.T.S. Designed By: J. Johnson Checked By: M.S. Sheet No. C-7			

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CONSTRUCTION PHASE:

DURING THE CONSTRUCTION PHASE OF THE PROJECT, A SEDIMENT AND EROSION CONTROL PLAN SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION'S BEST MANAGEMENT PRACTICES (BMP). THE PRIMARY GOALS OF THE SEDIMENT AND EROSION CONTROL PLAN ARE TO PREVENT THE TRACKING OF DIRT AND MUD ONTO ADJACENT ROADS, TO PREVENT MUD AND SILT FROM ENTERING INTO EXISTING AND PROPOSED DRAINAGE FACILITIES, AND TO PROTECT THE RECEIVING WATERS FROM CONTAMINATION DURING THE CONSTRUCTION.

DURING CONSTRUCTION, THE PARTY RESPONSIBLE FOR IMPLEMENTING THE TEMPORARY (DURING CONSTRUCTION) STORMWATER MANAGEMENT FACILITIES MAINTENANCE PROGRAM WILL BE THE OWNER. THE NAME AND CONTACT INFORMATION WILL BE FILED WITH THE TOWN OF CARMEL AND THE NYSDEC AT THE TIME OF THE PRECONSTRUCTION MEETING.

A NEW YORK STATE PROFESSIONAL ENGINEER OR CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (P.E. OR CPESC) SHALL CONDUCT AN ASSESSMENT OF THE SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND CERTIFY IN AN INSPECTION REPORT THAT THE APPROPRIATE EROSION AND SEDIMENT CONTROLS SHOWN ON THE PLAN HAVE BEEN ADEQUATELY INSTALLED AND/OR IMPLEMENTED TO ENSURE OVERALL PREPAREDNESS OF THE SITE FOR CONSTRUCTION. FOLLOWING THE COMMENCEMENT OF CONSTRUCTION, SITE INSPECTIONS SHALL BE CONDUCTED BY THE P.E. OR CPESC AT LEAST EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.

DURING EACH INSPECTION, THE REPRESENTATIVE SHALL RECORD THE FOLLOWING:

- ON A SITE MAP, INDICATE THE EXTENT OF ALL DISTURBED SITE AREAS AND DRAINAGE PATHWAYS. INDICATE SITE AREAS THAT ARE EXPECTED TO UNDERGO INITIAL DISTURBANCE OR SIGNIFICANT SITE WORK WITHIN THE NEXT 14-DAY PERIOD;
- INDICATE ON A SITE MAP ALL AREAS OF THE SITE THAT HAVE UNDERGONE TEMPORARY OR PERMANENT STABILIZATION;
- INDICATE ALL DISTURBED SITE AREAS THAT HAVE NOT UNDERGONE ACTIVE SITE WORK DURING THE PREVIOUS 14-DAY PERIOD;
- INSPECT ALL SEDIMENT CONTROL PRACTICES AND RECORD APPROXIMATE DEGREE OF SEDIMENT ACCUMULATION AS A PERCENTAGE OF THE SEDIMENT STORAGE VOLUME;
- INSPECT ALL EROSION AND SEDIMENT CONTROL PRACTICES AND RECORD ALL MAINTENANCE REQUIREMENTS. IDENTIFY ANY EVIDENCE OF RILL OR GULLY EROSION OCCURRING ON SLOPES AND ANY LOSS OF STABILIZING VEGETATION OR SEEDING/MULCHING. DOCUMENT ANY EXCESSIVE DEPOSITION OF SEDIMENT OR PONDING WATER ALONG THE BARRIER. RECORD THE DEPTH OF SEDIMENT WITHIN CONTAINMENT STRUCTURES AND ANY EROSION NEAR OUTLET AND OVERFLOW STRUCTURES.
- ALL IDENTIFIED DEFICIENCIES.

THE P.E. OR CPESC SHALL MAINTAIN A RECORD OF ALL INSPECTION REPORTS IN A SITE LOGBOOK. THE SITE LOGBOOK SHALL BE MAINTAINED ON-SITE AND BE MADE AVAILABLE TO THE TOWN OF OSSING AND THE NYSDEC. A SUMMARY OF THE SITE INSPECTION ACTIVITIES SHALL BE POSTED ON A MONTHLY BASIS IN A PUBLICLY ACCESSIBLE LOCATION AT THE SITE.

THE PROJECTS ANTICIPATED START DATE IS SEPTEMBER 2017 AND THE ANTICIPATED COMPLETION DATE IS ESTIMATED TO OCCUR IN SEPTEMBER APRIL 2018.

CONSTRUCTION SEQUENCING:

THE FOLLOWING EROSION CONTROL SCHEDULE SHALL BE UTILIZED:

- INSTALL CONSTRUCTION ENTRANCE TO THE DEVELOPMENT AREA.
- ESTABLISH CONSTRUCTION STAGING AREA.
- INSTALL TREE PROTECTION ON TREES AS NOTED ON PLANS.
- SELECTIVE VEGETATION REMOVAL FOR SILT FENCE INSTALLATION.
- INSTALL SILT FENCE DOWN SLOPE OF ALL AREAS TO BE DISTURBED AS SHOWN ON THE PLAN.
- REMOVE TREES WHERE NECESSARY (CLEAR & GRUB) FOR THE PROPOSED CONSTRUCTION.
- STRIP TOPSOIL AND STOCKPILE AT THE LOCATIONS SPECIFIED ON THE PLANS (UP GRADIENT OF EROSION CONTROL MEASURES). TEMPORARILY STABILIZE TOPSOIL STOCKPILES (HYDROSEED DURING MAY 1ST THROUGH OCTOBER 31ST PLANTING SEASON OR BY COVERING WITH A TARPULAIN(S) NOVEMBER 1ST THROUGH APRIL 30TH. INSTALL SILT FENCE AROUND TOE OF SLOPE.
- DEMOLISH ANY EXISTING SITE FEATURES AND/OR STRUCTURES NOTED AS BEING REMOVED ON THE CONSTRUCTION DOCUMENTS, AND DISPOSE OF OFF-SITE.
- ROUGH GRADE SITE.
- INSTALL ADDITIONAL SILT FENCING AS NECESSARY.
- EXCAVATE AND CONSTRUCT FOUNDATIONS FOR NEW BUILDING.
- ROUGH GRADE PARKING LOT AND INSTALL DRAIN INLETS, HYDRODYNAMIC SEPARATOR AND MANHOLES, AS WELL AS ALL ASSOCIATED ONSITE PIPING, FROM EXISTING BROOK UP TO LOCATION OF PROPOSED ORGANIC FILTER AND ROOF DRAIN LEADER CONNECTION AT BUILDING.
- CONSTRUCT BUILDING. INSTALL AND CONNECT ALL ROOF DRAIN LEADERS TO PREVIOUSLY INSTALLED STORMWATER PIPING.
- CONSTRUCT ORGANIC SURFACE FILTER PRACTICE (DO NOT ALLOW SITE RUNOFF TO ENTER FILTER UNTIL THE ENTIRE TRIBUTARY AREA IS COMPLETELY STABILIZED AND 80% VEGETATIVE COVER HAS BEEN ESTABLISHED IN ALL LANDSCAPED AREAS, AS WELL AS WITHIN ORGANIC FILTER).
- INSTALL CURBING, AND SUB-BASE COURSES. FINE GRADE AND SEED ALL DISTURBED AREAS. SPREAD SALT HAY OVER SEEDD AREAS.
- INSTALL BITUMINOUS CONCRETE TOP COURSE.
- CLEAN PAVEMENT, DRAIN LINES, CATCH BASINS AND PRETREATMENT DEVICES. CLEAN ORGANIC FILTER PRACTICE.
- REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES AFTER THE SITE IS STABILIZED WITH VEGETATION.

*SOIL EROSION AND SEDIMENT CONTROL MAINTENANCE MUST OCCUR EVERY TWO WEEKS AND PRIOR TO AND AFTER EVERY ½" OR GREATER RAINFALL EVENT.

CONSTRUCTION PRACTICES TO MINIMIZE STORMWATER CONTAMINATION:

GENERAL:

ADEQUATE MEASURES SHALL BE TAKEN TO MINIMIZE CONTAMINANT PARTICLES ARISING FROM THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, GRADING OPERATIONS, AND THE RECLAMATION AND PLACEMENT OF PAVEMENT, DURING PROJECT CONSTRUCTION, INCLUDING BUT NOT LIMITED TO:

- BUILDING MATERIALS, GARBAGE, AND DEBRIS SHALL BE CLEANED UP DAILY AND DEPOSITED INTO DUMPSTERS, WHICH WILL BE PERIODICALLY REMOVED FROM THE SITE AND APPROPRIATELY DISPOSED OF AT DUMPSTERS AND CONTAINERS LEFT ON-SITE SHALL BE COVERED AND SURROUNDED WITH SILT FENCE IN ORDER TO PREVENT CONTAMINANTS FROM LEAVING THE SITE. SILT FENCING SHALL BE INSPECTED ON A WEEKLY BASIS.
- DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPULAIN.
- THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEP DAILY TO REMOVE EXCESS MUD, DIRT, OR ROCK TRACKED FROM THE SITE.
- PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS THAT ARE CLEARLY LABELED.
- ALL VEHICLES ON SITE WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. SPILLS LARGE ENOUGH TO REACH THE STORM SYSTEM WILL BE REPORTED TO THE NATIONAL RESPONSE CENTER AT 1-800-424-8802.
- MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE TEMPORARY MATERIAL STORAGE TRAILER ON-SITE. EQUIPMENT WILL INCLUDE, BUT NOT BE LIMITED TO, BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAW DUST, AND PLASTIC AND METAL TRASH CONTAINERS.
- ALL PAINT CONTAINERS AND CURING COMPOUNDS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SYSTEM, BUT WILL BE PROPERLY DISPOSED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS A MINIMUM OF TWO TIMES A WEEK TO AVOID OVERFLOWING. ALL SANITARY WASTE UNITS SHALL BE SURROUNDED BY SILT FENCE TO PREVENT CONTAMINANTS FROM LEAVING THE SITE. SILT FENCING SHALL BE INSPECTED ON A WEEKLY BASIS.
- ANY ASPHALT SUBSTANCES USED ON-SITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.
- FERTILIZERS WILL BE STORED IN A COVERED SHED AND PARTIALLY USED BAGS WILL BE TRANSFERRED TO A SEALABLE BIN TO AVOID SPILLS AND WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER AND WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER.
- NO DISTURBED AREA SHALL BE LEFT UN-STABILIZED FOR LONGER THAN 14 DAYS DURING THE GROWING SEASON.
- WHEN EROSION IS LIKELY TO BE A PROBLEM, GRUBBING OPERATIONS SHALL BE SCHEDULED AND PERFORMED SUCH THAT GRADING OPERATIONS AND PERMANENT EROSION CONTROL FEATURES CAN FOLLOW WITHIN 24 HOURS THEREAFTER.
- AS WORK PROGRESSES, PATCH SEEDING SHALL BE DONE AS REQUIRED ON AREAS PREVIOUSLY TREATED TO MAINTAIN OR ESTABLISH PROTECTIVE COVER.
- DRAINAGE PIPES AND SWALES/DITCHES SHALL GENERALLY BE CONSTRUCTED IN A SEQUENCE FROM OUTLET TO INLET IN ORDER TO STABILIZE AREAS AND DITCHES BEFORE WATER IS DIRECTED TO THE NEW INSTALLATION OR ANY PORTION THEREOF, UNLESS CONDITIONS UNIQUE TO THE LOCATION WARRANT AN ALTERNATIVE METHOD.

SPILL CONTROL & SPILL RESPONSE:

- FOR ALL HAZARDOUS MATERIALS STORED ON SITE, THE MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN UP WILL BE CLEARLY POSTED. SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES, AND THE LOCATIONS OF THE INFORMATION AND CLEANUP SUPPLIES.
- APPROPRIATE CLEANUP MATERIALS AND EQUIPMENT WILL BE MAINTAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA ON-SITE. AS APPROPRIATE, EQUIPMENT AND MATERIALS MAY INCLUDE ITEMS SUCH AS BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR CLEAN UP PURPOSES.
- ALL SPILLS WILL BE CLEANED IMMEDIATELY AFTER DISCOVERY AND THE MATERIALS DISPOSED OF PROPERLY.
- THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- AFTER A SPILL, A REPLY WILL BE PREPARED DESCRIBING THE MEASURES TAKEN TO PREVENT THE SPILL. PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING, AS WELL AS CLEAN UP INSTRUCTIONS IN THE EVENT OF REOCCURRENCES.
- THE CONTRACTOR'S SITE SUPERINTENDENT, RESPONSIBLE FOR DAY-TO-DAY OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SITE SUPERINTENDENT HAS HAD APPROPRIATE TRAINING FOR HAZARDOUS MATERIALS HANDLING, SPILL MANAGEMENT, AND CLEANUP.
- THE CONTRACTOR'S SITE SUPERINTENDENT WILL BE NOTIFIED IMMEDIATELY WHEN A SPILL OR THE THREAT OF A SPILL IS OBSERVED. THE SUPERINTENDENT WILL ASSESS THE SITUATION AND DETERMINE THE APPROPRIATE RESPONSE.
- IF SPILLS REPRESENT AN IMMINENT THREAT OF ESCAPING EROSION AND SEDIMENT CONTROLS AND ENTERING RECEIVING WATERS, PERSONNEL WILL BE DIRECTED TO RESPOND IMMEDIATELY TO CONTAIN THE RELEASE AND NOTIFY THE SUPERINTENDENT AFTER THE SITUATION HAS BEEN STABILIZED.

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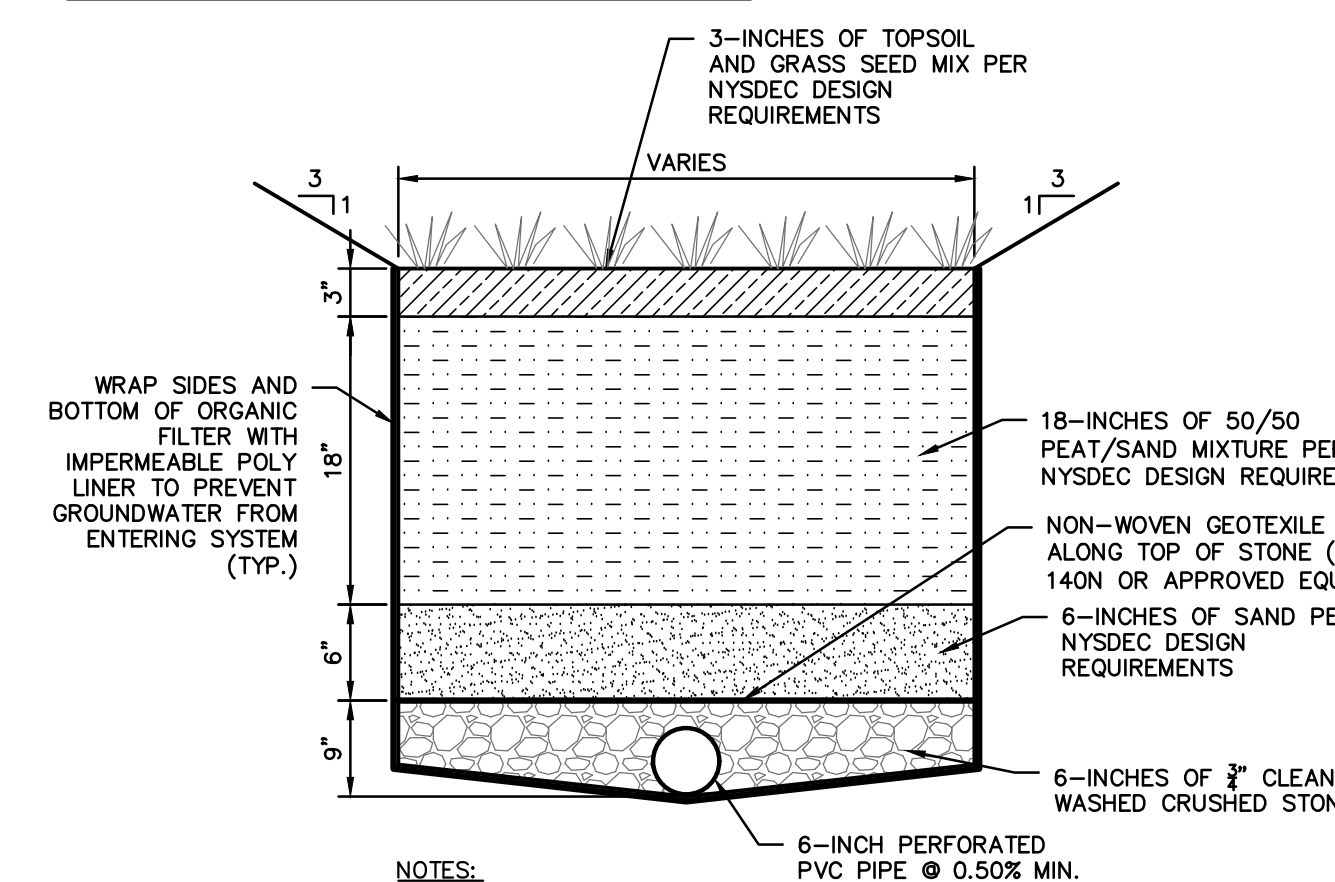
- SPILL KITS CONTAINING APPROPRIATE MATERIALS AND EQUIPMENT FOR SPILL RESPONSE AND CLEANUP WILL BE MAINTAINED BY THE CONTRACTOR AT THE SITE.
 - IF OIL SHEEN IS OBSERVED ON SURFACE WATER, ACTION WILL BE TAKEN IMMEDIATELY TO REMOVE THE MATERIAL CAUSING THE SHEEN. THE CONTRACTOR WILL USE APPROPRIATE MATERIALS TO CONTAIN AND ABSORB THE SPILL. THE SOURCE OF THE OIL SHEEN WILL ALSO BE IDENTIFIED AND REMOVED OR REPAIRED AS NECESSARY TO PREVENT FURTHER RELEASES.
 - IF A SPILL OCCURS THE SUPERINTENDENT OR THE SUPERINTENDENT'S DESIGNEE WILL BE RESPONSIBLE FOR COMPLETING THE SPILL REPORTING FORM AND FOR REPORTING THE SPILL TO THE CONTACTS LISTED BELOW.
 - PERSONNEL WITH PRIMARY RESPONSIBILITY FOR SPILL RESPONSE AND CLEAN UP WILL RECEIVE TRAINING BY THE CONTRACTOR'S SITE SUPERINTENDENT OR DESIGNEE. THE TRAINING MUST INCLUDE IDENTIFYING THE LOCATION OF THE SPILL KITS AND OTHER SPILL RESPONSE EQUIPMENT AND THE USE OF SPILL RESPONSE MATERIALS.
 - SPILL RESPONSE EQUIPMENT WILL BE INSPECTED AND MAINTAINED AS NECESSARY TO REPLACE ANY MATERIALS USED IN SPILL RESPONSE ACTIVITIES.
- SPILL CONTROL NOTIFICATION:

- A REPORTABLE SPILL IS A QUANTITY OF FIVE (5) GALLONS OR MORE OR ANY SPILL OF OIL WHICH: (1) VIOLATES WATER QUALITY STANDARDS, (2) PRODUCES A SHEEN ON A SURFACE WATER, OR (3) CAUSES A SLUDGE OR EMULSION. THIS SPILL MUST BE REPORTED IMMEDIATELY TO THE AGENCIES LISTED BELOW.
- ANY SPILL OF OIL OR HAZARDOUS SUBSTANCE TO WATERS OF THE STATE MUST BE REPORTED IMMEDIATELY BY TELEPHONE TO THE FOLLOWING AGENCIES:
 - 911 - POLICE, FIRE AND EMS
 - TOWN OF OSSING BUILDING DEPARTMENT
 - 101 ROUTE 9A
 - OSSING, NY 10562
 - PHONE: (914) 841-3199
 - BRIARCLIFF MANOR FIRE DEPARTMENT
 - 1111 PLEASANTVILLE ROAD
 - BRIARCLIFF MANOR, NY 10510
 - PHONE: (914) 841-4444
 - NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC)
 - SPILL REPORTING HOTLINE
 - (800) 457-7362
 - NATIONAL RESPONSE CENTER: (800) 424-8802
 - LOCAL EMERGENCY PLANNING COMMITTEE (LEPC)
 - WESTCHESTER COUNTY OFFICE OF EMERGENCY MANAGEMENT
 - 200 BRADHURST AVENUE
 - HANWHORSE, NY 10532
 - (914) 864-5450
 - WESTCHESTER COUNTY DEPARTMENT OF HEALTH (WCDOH)
 - SPILL REPORTING HOTLINE
 - (914) 813-5000
 - U.S. ENVIRONMENTAL PROTECTION AGENCY (USEPA)
 - EPORA INFORMATION HOTLINE
 - (800) 535-0202
 - U.S. DEPARTMENT OF LABOR AND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)
 - FARRISTOWN, NY
 - (914) 524-7510

STORMWATER MANAGEMENT FACILITIES MAINTENANCE PROGRAM

MEASURE	DATES FOR INSPECTION	TIMING, ACTIVITY, AND LOCATION
GENERAL MAINTENANCE (STORM SEWER, CATCH BASINS/DRAIN INLETS, PRE-TREATMENT DEVICE AND INFILTRATION BASIN)	ALL	ALL STORMWATER FACILITIES SHALL BE INSPECTED IMMEDIATELY AFTER COMPLETION OF CONSTRUCTION, AND THEN MONTHLY FOR THE FIRST THREE (3) MONTHS FOLLOWING THE COMPLETION OF THE PROJECT. WITHIN THE FIRST THREE (3) MONTHS, INSPECTIONS SHALL IMMEDIATELY BE PERFORMED FOLLOWING A LARGE STORM EVENT (I.E. PRODUCING 1/2" (ONE-HALF INCH) OF RAIN OR GREATER. THEREAFTER, THESE FACILITIES SHALL BE INSPECTED AS DESCRIBED AS FOLLOWS. UPON INSPECTION, FACILITIES SHALL BE IMMEDIATELY MAINTAINED AND/OR CLEANED AS MAY BE REQUIRED. ANY SITE AREAS EXHIBITING SOIL EROSION OF ANY KIND SHALL BE IMMEDIATELY RESTORED AND STABILIZED WITH VEGETATION, MULCH OR STONE, DEPENDING UPON EACH INSPECTION, ALL VISIBLE DEBRIS INCLUDING, BUT NOT LIMITED TO, TWIGS, LEAF AND FOREST LITTER SHALL BE REMOVED FROM THE BASIN, OVERFLOW DISCHARGE POINTS AND FRAMES AND GRATES OF DRAINAGE STRUCTURES.
SUMPS - CATCH BASIN/DRAIN INLETS AND DRAIN MANHOLES	UPON COMPLETION OF CONSTRUCTION; -ONCE A MONTH FOR THE FIRST THREE (3) MONTHS -AFTER FIRST THREE (3) MONTHS -EVERY FOUR (4) MONTHS THEREAFTER	ALL CATCH BASIN/DRAIN INLETS AND DRAIN MANHOLES WITH SUMPS HAVE BEEN DESIGNED TO TRAP SEDIMENT PRIOR TO ITS TRANSPORT TO THE INFILTRATION PRACTICE AND, ULTIMATELY, DOWNSTREAM. THESE SUMPS WILL REQUIRE PERIODIC INSPECTION AND MAINTENANCE TO ENSURE THAT ADEQUATE DEPTH IS MAINTAINED WITHIN THE SUMPS. THE OWNER, OR THEIR DULY AUTHORIZED REPRESENTATIVE, SHALL TAKE MEASUREMENTS OF THE SUMP DEPTH. IF SEDIMENT HAS ACCUMULATED TO 1/2 (ONE-HALF) THE DEPTH OF THE SUMP, ALL SEDIMENT SHALL BE REMOVED FROM THE SUMP. SEDIMENTS CAN BE REMOVED WITH HAND-LABOR OR WITH A VACUUM TRUCK. THE USE OF ROAD SALT SHALL BE MINIMIZED FOR MAINTENANCE OF ROADWAY AND DRIVEWAY AREAS.
HYDRODYNAMIC SEPARATOR	UPON COMPLETION OF CONSTRUCTION; -QUARTERLY FOR FIRST YEAR -AFTER FIRST YEAR -EVERY SIX (6) MONTHS THEREAFTER (SPRING & FALL)	THE HYDRODYNAMIC SEPARATOR DEVICE LOCATED ADJACENT TO THE NORTH WEST CORNER OF THE BUILDING SHALL BE MAINTAINED DURING DRY WEATHER CONDITIONS. ANY ACCUMULATED SEDIMENTS SHALL BE VACUUMED OUT WHEN SEDIMENT HAS REACHED 1/2 (ONE-HALF) THE CAPACITY OF THE ISOLATED SUMP, OR WHEN AN APPRECIABLE LEVEL OF HYDROCARBONS AND TRASH HAS ACCUMULATED, WHICHEVER OCCURS FIRST. WHEN THE SEDIMENT PILE IS WITHIN 30 TO 36 INCHES OF THE WATER SURFACE, THE SYSTEM SHOULD BE MAINTAINED. A VACUUM TRUCK SHALL BE USED TO REMOVE THE ACCUMULATED SEDIMENT AND DEBRIS. REFER TO MANUFACTURER'S LITERATURE FOR DETAILED MAINTENANCE INSTRUCTIONS.
ORGANIC SURFACE FILTER (TYPE F-4)	UPON COMPLETION OF CONSTRUCTION; -THREE TIMES PER GROWING SEASON BETWEEN THE BEGINNING OF SPRING & END OF FALL AND ONCE EACH WINTER	THE ORGANIC FILTER LOCATED DOWN SLOPE OF THE PARKING AREA SHALL BE MAINTAINED DURING DRY WEATHER CONDITIONS. SILT/SEDIMENT SHALL BE REMOVED FROM THE FILTER BED WHEN THE ACCUMULATION EXCEEDS ON INCH. WHEN THE FILTERING CAPACITY OF THE FILTER DIMINISHED SUBSTANTIALLY (I.E., WHEN WATER PONDS ON THE SURFACE OF THE FILTER BED FOR MORE THAN 48-HOURS), THE TOP FEW INCHES OF DISCOLORED MATERIAL SHALL BE REMOVED AND SHALL BE REPLACED WITH FRESH MATERIAL. THE REMOVED SEDIMENTS SHALL BE DISPOSED IN AN ACCEPTABLE MANNER (I.E., LANDFILL).

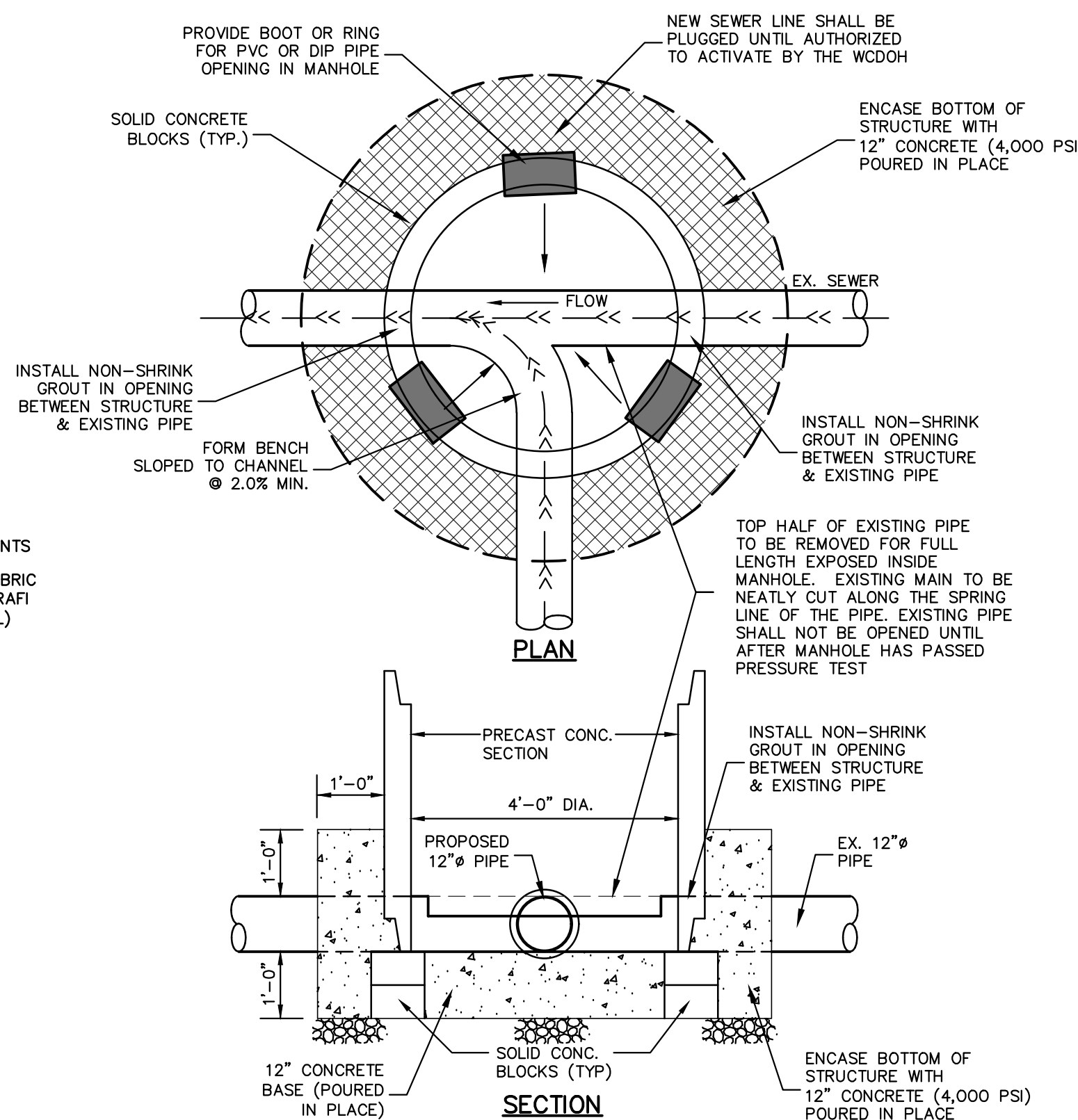
- DURING CONSTRUCTION, THE PARTY RESPONSIBLE FOR IMPLEMENTING THE TEMPORARY (DURING CONSTRUCTION) STORMWATER MANAGEMENT FACILITIES MAINTENANCE PROGRAM WILL BE THE CONTRACTOR. THE NAME AND CONTACT INFORMATION OF THE TOWN OF CARMEL AND THE NYSDEC AT THE TIME OF THE PRE-CONSTRUCTION MEETING. THE PERMANENT MAINTENANCE PROGRAM FOR ALL NEW STORMWATER MANAGEMENT FACILITIES WILL BE MANAGED BY THE INDIVIDUAL HOMEOWNERS UPON COMPLETION OF CONSTRUCTION AND ACCEPTANCE OF THE IMPROVEMENTS.



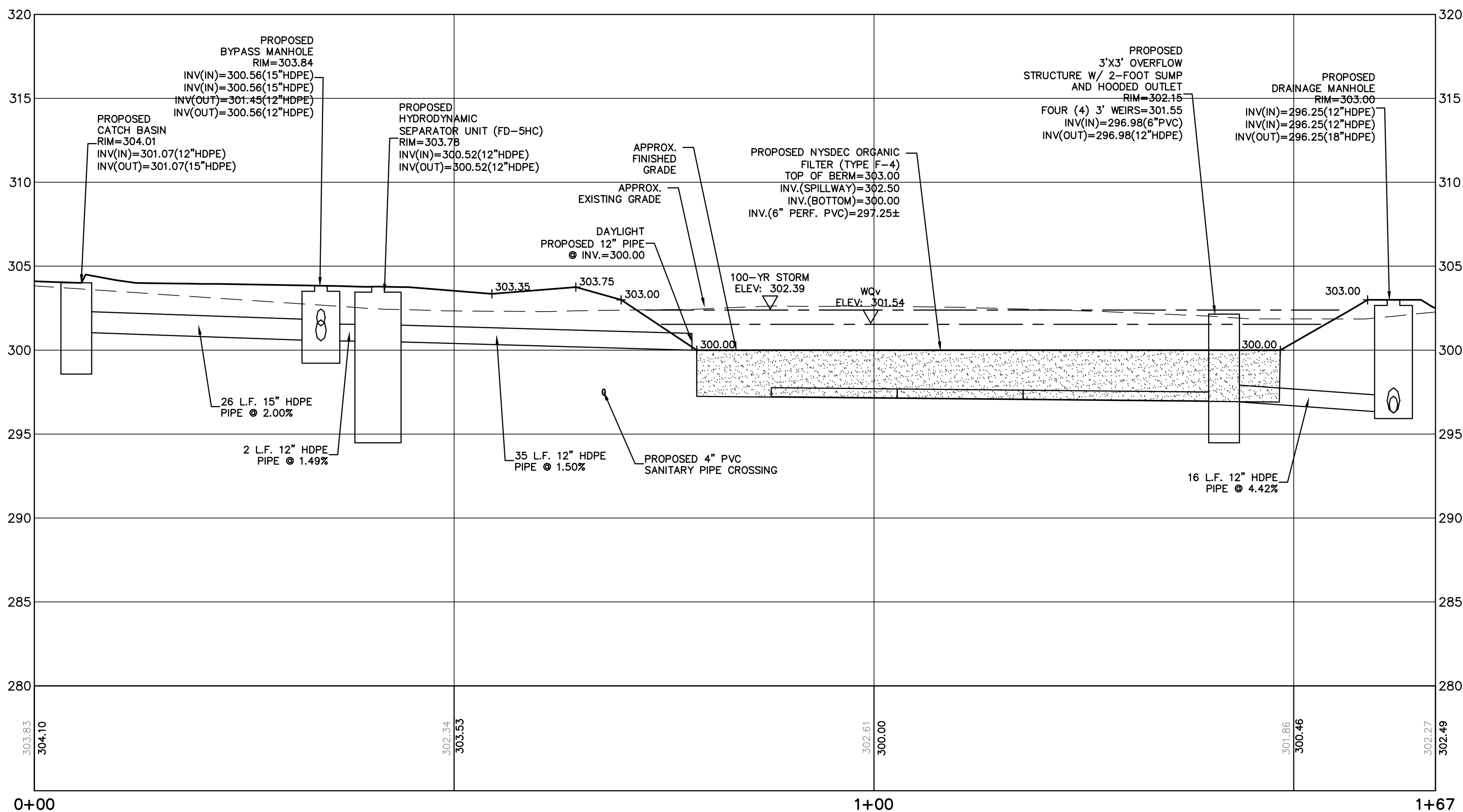
NOTES:

- FILTER MEDIA USED FOR ORGANIC FILTERS SHALL CONSIST OF A 50/50 MIXTURE OF REED-DESCE HEMIC PEAT AND MEDIUM SAND (ASTM C-33 CONCRETE SAND).
- SURFACE FILTERS SHALL HAVE A GRASS COVER TO AID IN POLLUTION ABSORPTION. GRASS SHALL BE CAPABLE OF WITHSTANDING FREQUENT PERIODS OF INUNDATION AND DROUGHT.
- GRASS COVER SHALL BE MOWED A MINIMUM OF THREE TIMES PER GROWING SEASON TO MAINTAIN MAXIMUM GRASS HEIGHTS LESS THAN 12-INCHES.

NYSDEC ORGANIC FILTER (F-4) TYPICAL CROSS SECTION

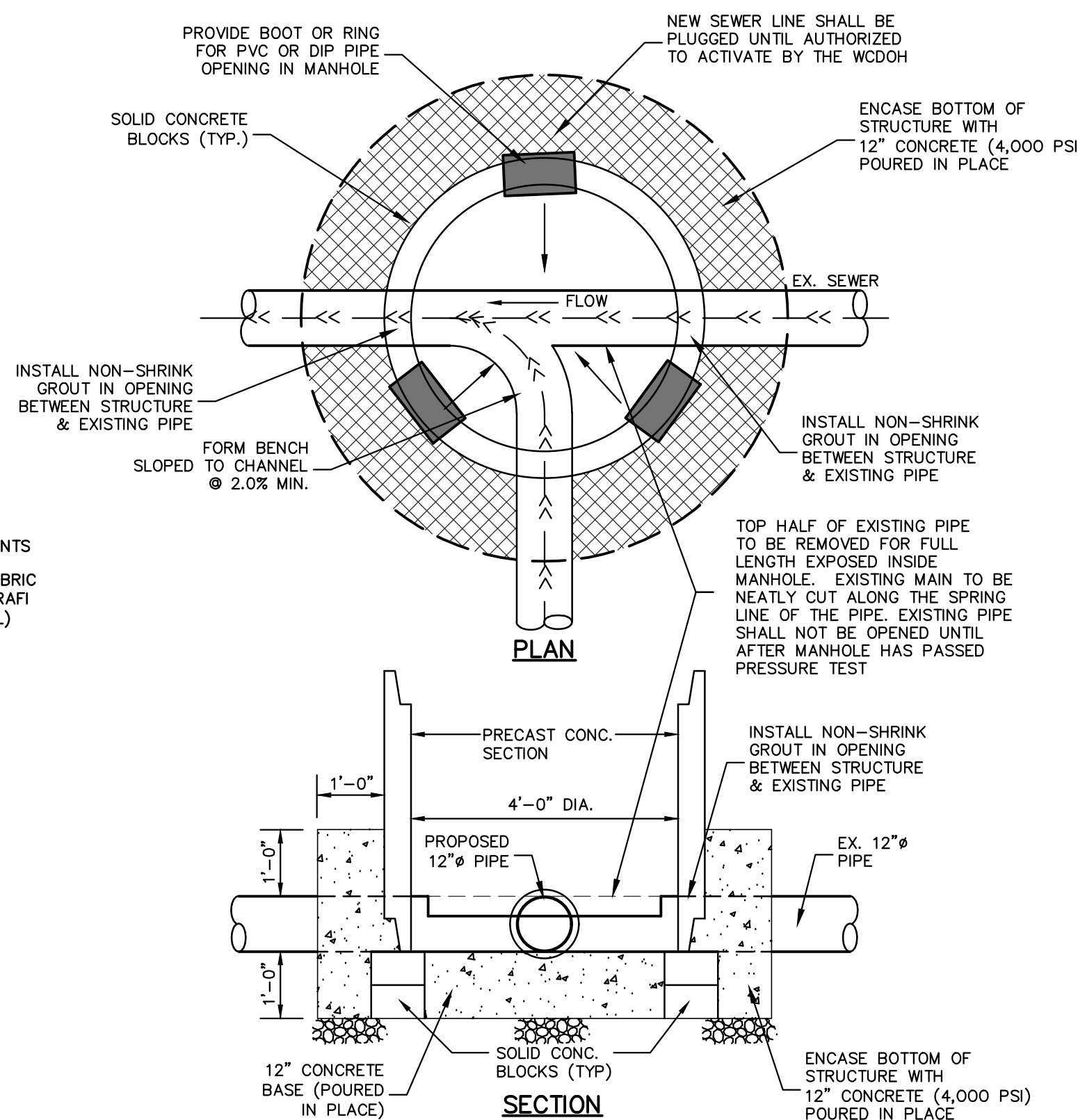


DOGHOUSE MANHOLE BASE

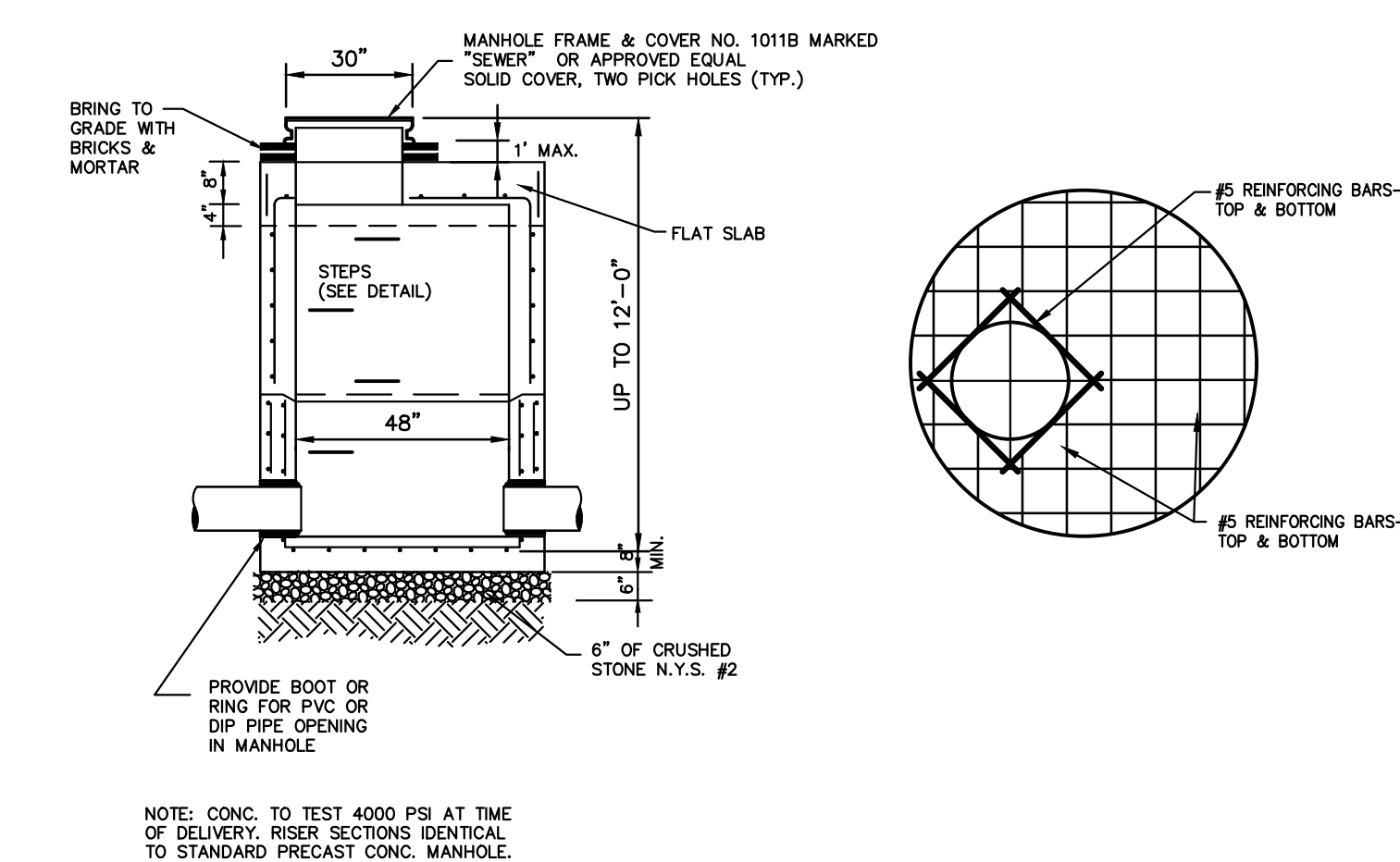


NYSDEC ORGANIC FILTER (F-4) (STA. 0+00 TO STA. 1+67)

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 5'



ELEVATION TYPICAL OPENING OF PRECAST M.H. BASE SECTION



PRECAST CONCRETE MANHOLE

NOTE: CONC. TO TEST 4000 PSI AT TIME OF DELIVERY. RISER SECTIONS IDENTICAL TO STANDARD PRECAST CONC. MANHOLE.

1/28/18 REVISED PER TOWN COMMENTS	1/7/19 REVISED PER TOWN COMMENTS	1/28/19 REVISED PER TOWN COMMENTS	2/7/19 PLANNING BOARD SUBMISSION	2/27/19 REVISED FOR COURT MEETING	DATE
Revisions					
THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEERS SEAL & SIGNATURE					
PROJECT: SPCA OF WESTCHESTER 590 NORTH STATE ROAD TOWN OF OSSING WESTCHESTER COUNTY - NEW YORK					
DETAILS					
HUDSON ENGINEERING CONSULTING, P.C. 45 Knollwood Road - Suite 201 Elmsford, New York 10523 T: 914-909-0420 F: 914-560-2086 © 2019					
Date: 02/09/18 Sheet: 8 Scale: N.T.S. Designed By: D.C. Checked By: M.S. Sheet No. 11					
C-8					

FIRST DEFENSE® HIGH CAPACITY DESIGN SUMMARY

Hydro International

PROJECT INFORMATION

Reference

Site

Designer

Date

Watershed 1B / 18_12_3003

SPCA of Westchester

Daniel Collins

12/21/2018

DESIGN INPUTS

Unit Size (ft)

3.00

DESIGN OUTPUTS

Product

Unit Reference

3-ft DIAMETER FIRST DEFENSE HIGH CAPACITY

FD-3HC

UNIT WEIGHTS AND DIMENSIONS

(A) Unit Size (ft)

(B) Inlet Pipe Size (in)

(D) Outlet Pipe Size (in)

(F) Unit Depth (ft)

Inlet Invert Height (ft)

Outlet Invert Height (ft)

3.00

12

12

6.46

301.34

301.34

PERFORMANCE AND HYDRAULICS

Max. Treatment Flow-Rate (cfs)

Hydraulic Capacity Flow-Rate (cfs)

Typical Operating Headloss (in)

Maximum Headloss (in)

1.06

5.21

9

20

STORAGE

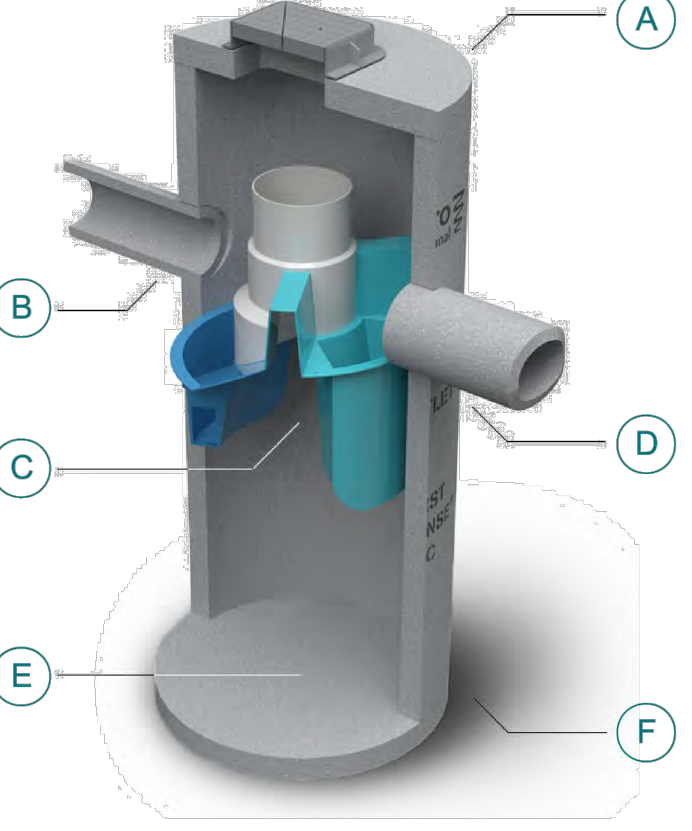
(C) Min. Oil Storage Capacity (gal)

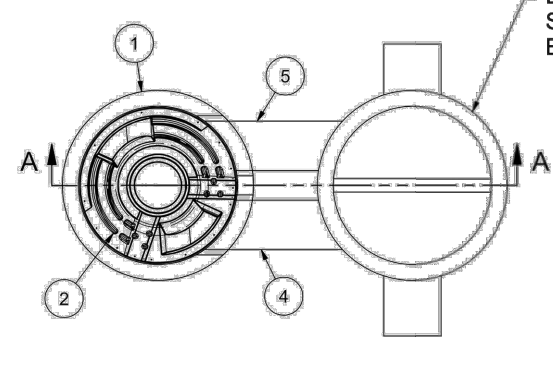
(E) Min.Sediment Storage Capacity (yd³)

125

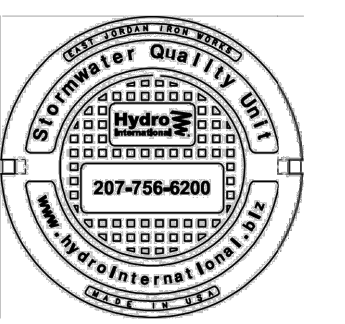
0.4

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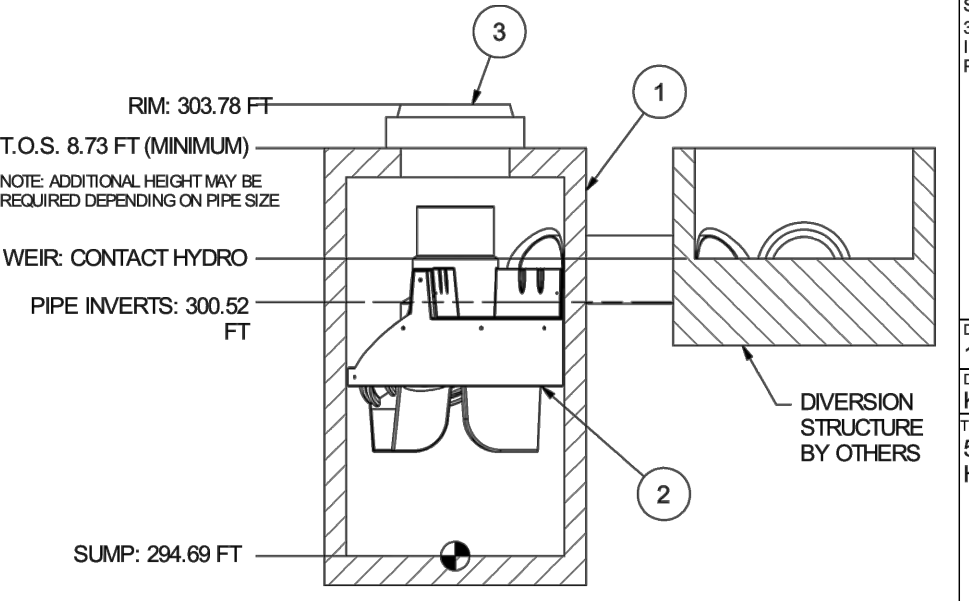




PLAN VIEW



HYDRO FRAME AND COVER (INCLUDED)
GRADE RINGS BY OTHERS AS REQUIRED



SECTION A-A

COMMENTS

1. MANHOLE WALL AND SLAB THICKNESSES ARE NOT TO SCALE.

2. CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING FIRST DEFENSE® MANHOLE.

3. CONTRACTOR TO CONFIRM RIM, PIPE INVERTS, PIPE DIA. AND PIPE ORIENTATION PRIOR TO RELEASE OF UNIT TO FABRICATION.

DATE

SCALE

DRAWN BY

CHECKED BY

APPROVED BY

TRN

12/21/2018

NTS

KDO

MRJ

PROJECTION

DATE

SCALE

DRAWN BY

CHECKED BY

APPROVED BY

TRN

12/21/2018

NTS

KDO

MRJ

PRODUCT SPECIFICATIONS

1. PEAK HYDRAULIC FLOW: 4.48 cfs

2. MIN SEDIMENT STORAGE CAPACITY: 1.1 yd³

3. OIL STORAGE CAPACITY: 300 gal

4. THE TREATMENT SYSTEM SHALL USE AN INDUCED VORTEX TO SEPARATE POLLUTANTS FROM STORMWATER RUNOFF.

ITEM

QTY

SIZE (in)

DESCRIPTION

1

1

60

1. PRECAST MANHOLE

2

1

INTERNAL COMPONENTS (PRE-INSTALLED)

4

1

30

FRAME AND COVER (ROUND)

5

1

12

OUTLET PIPE (BY OTHERS)

6

1

12

INLET PIPE (BY OTHERS)

ANY WARRANTY GIVEN BY HYDRO INTERNATIONAL WILL APPLY ONLY TO THOSE ITEMS SUPPLIED BY IT. ACCORDINGLY HYDRO INTERNATIONAL CANNOT ACCEPT ANY RESPONSIBILITY FOR ANY STRUCTURE PLANT, OR EQUIPMENT, OR THE PERFORMANCE THEREOF, IF DESIGNED, BUILT, MANUFACTURED, OR SUPPLIED BY ANY THIRD PARTY. HYDRO INTERNATIONAL ASSUMES NO LIABILITY FOR CONTRACTS, DEVELOPMENT AND RESERVE THE RIGHT TO AMEND THE SPECIFICATION. HYDRO INTERNATIONAL CANNOT ACCEPT LIABILITY FOR PERFORMANCE OF ITS EQUIPMENT (OR ANY PART THEREOF). IF THE EQUIPMENT IS SUBJECT TO CONDITIONS OUTSIDE ANY DESIGN SPECIFICATION, HYDRO INTERNATIONAL CANNOT BE RESPONSIBLE FOR THE PERFORMANCE THEREOF. HYDRO INTERNATIONAL CANNOT BE RESPONSIBLE FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SUPPLIED AND MUST NOT BE REPRODUCED IN WHOLE OR IN PART, WITHOUT PRIOR PERMISSION IN WRITING FROM HYDRO INTERNATIONAL.

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN: TOLERANCES ARE: FRACTIONS ± 1/16 DECIMALS ± .015 ANGLES ± 1/16

PROJECT

INVERT

MATERIAL

DIAMETER

-

RIM

OUTLET

INLET 1

INLET 2

INLET 3

-

-

-

-

-

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hydrointl.com

FIRST DEFENSE® HIGH CAPACITY DESIGN SUMMARY

Hydro International

PROJECT INFORMATION

Reference

Site

Designer

Date

Watershed 1A / 18_12_3003

SPCA of Westchester

Daniel Collins

12/21/2018 4:10 PM

DESIGN INPUTS

Regulatory Agency

Water Quality Flow Rate (cfs)

NYSDEC (based on NJDEP)

1.51

DESIGN OUTPUTS

Product

Unit Reference

5-R DIAMETER FIRST DEFENSE HIGH CAPACITY

FD-5HC

* Approved for use in NYSDEC (based on NJDEP)

UNIT WEIGHTS AND DIMENSIONS

(A) Unit Size (ft)

(B) Inlet Pipe Size (in)

(D) Outlet Pipe Size (in)

(F) Unit Depth (ft)

Inlet Invert Height (ft)

Outlet Invert Height (ft)

5.00

12

12

8.73

300.52

300.52

PERFORMANCE AND HYDRAULICS

Max. Treatment Flow-Rate (cfs)

Hydraulic Capacity Flow-Rate (cfs)

Typical Operating Headloss (in)

Maximum Headloss (in)

2.34

4.48

12

20

STORAGE

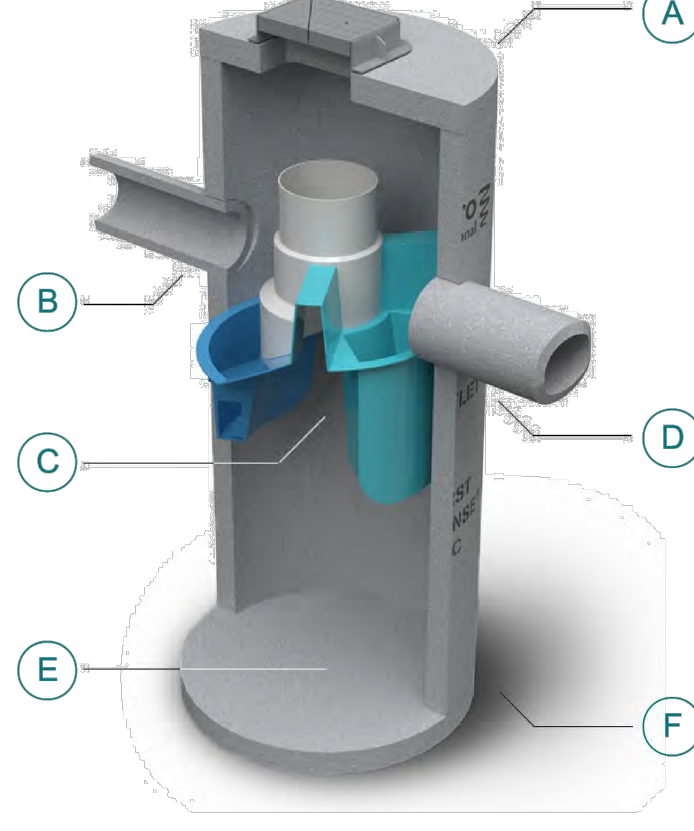
(C) Min. Oil Storage Capacity (gal)

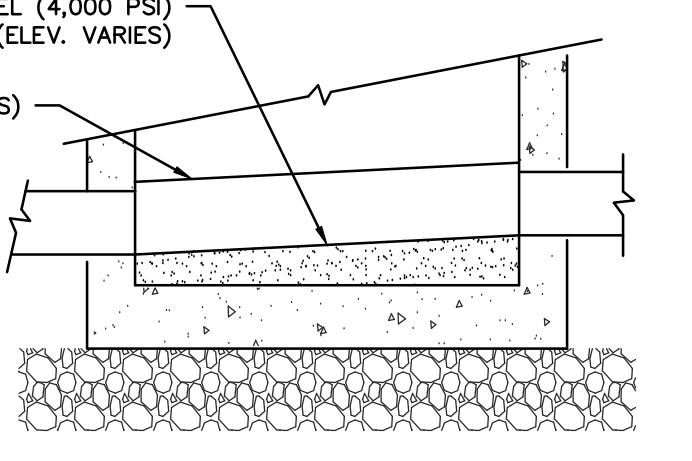
(E) Min.Sediment Storage Capacity (yd³)

300

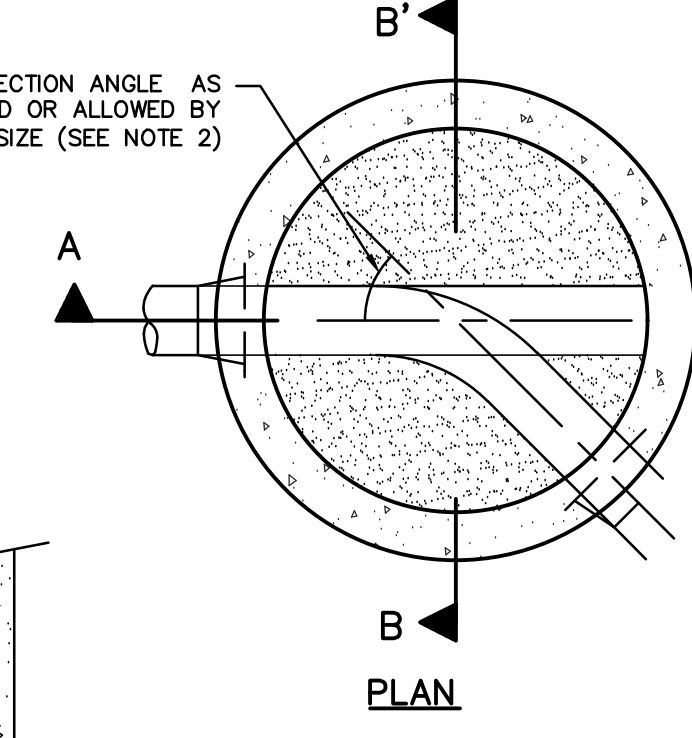
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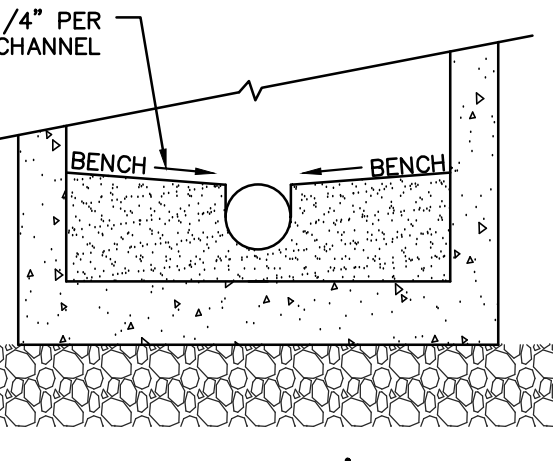




SECTION A-A'



PLAN



SECTION B-B'

CONCRETE CHANNEL (4,000 PSI)
(ELEV. VARIES)

BENCH (ELEV. VARIES)

DEFLECTION ANGLE AS REQUIRED OR ALLOWED BY OPENING SIZE (SEE NOTE 2)

SLOPE BENCH 1/4" PER FT TOWARDS CHANNEL

BENCH

BENCH

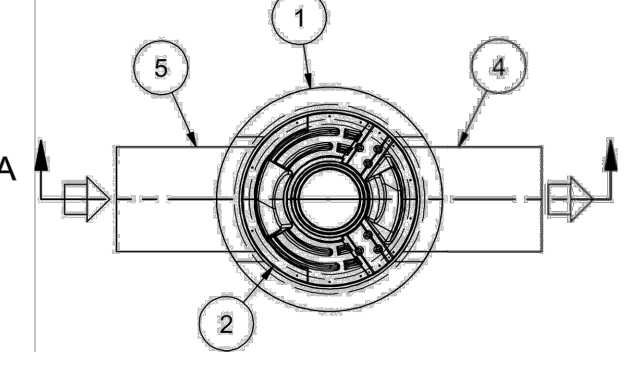
NOTES:

1. SLOPE CHANNEL DOWN 0.10 FEET FROM INLET TO OUTLET.

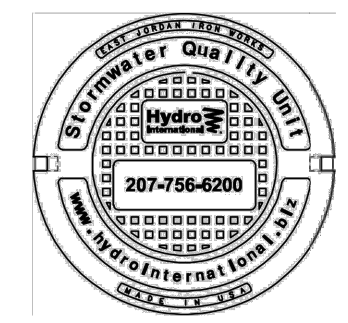
2. MAKE CHANGES IN FLOW DIRECTION BY CIRCULAR CHANNEL CONSTRUCTION WITH MAXIMUM RADIUS POSSIBLE.

3. FOR DEAD-END MANHOLES, BUILD CHANNEL AS DIRECTED BY ENGINEER.

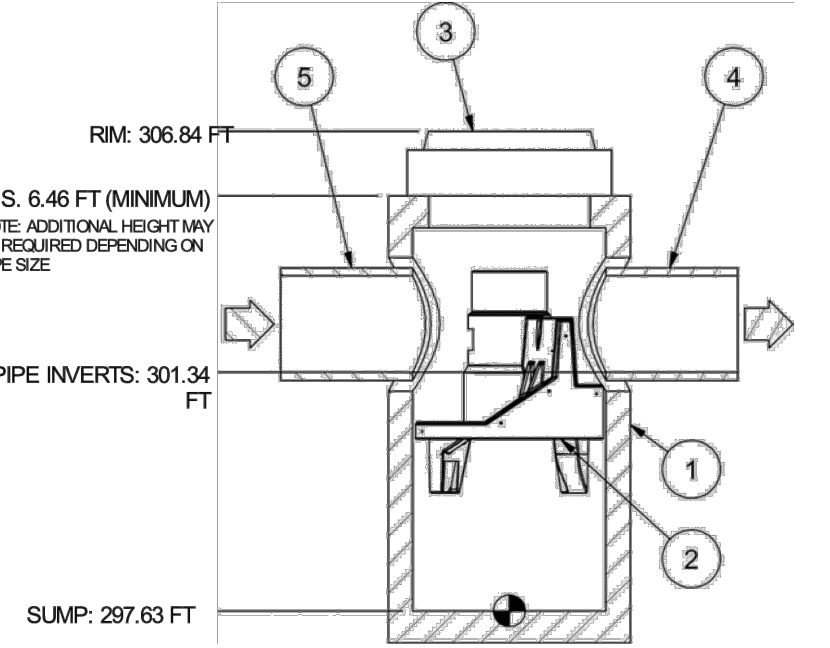
FORMED INVERT CHANNEL FOR SEWER MANHOLES



PLAN VIEW



HYDRO FRAME AND COVER (INCLUDED)
GRADE RINGS BY OTHERS AS REQUIRED



SECTION A-A

COMMENTS

1. MANHOLE WALL AND SLAB THICKNESSES ARE NOT TO SCALE.

2. CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING FIRST DEFENSE® MANHOLE.

3. CONTRACTOR TO CONFIRM RIM, PIPE INVERTS, PIPE DIA. AND PIPE ORIENTATION PRIOR TO RELEASE OF UNIT TO FABRICATION.

DATE

SCALE

DRAWN BY

CHECKED BY

APPROVED BY

TRN

12/21/2018

NTS

KDO

MRJ

PROJECTION

DATE

SCALE

DRAWN BY

CHECKED BY

APPROVED BY

TRN

12/21/2018

NTS

KDO

MRJ

PRODUCT SPECIFICATIONS

1. PEAK HYDRAULIC FLOW: 5.21 cfs

2. MIN SEDIMENT STORAGE CAPACITY: 0.4 yd³

3. OIL STORAGE CAPACITY: 125 gal

4. THE TREATMENT SYSTEM SHALL USE AN INDUCED VORTEX TO SEPARATE POLLUTANTS FROM STORMWATER RUNOFF.

ITEM

QTY

SIZE (in)

DESCRIPTION

1

1

36

1. PRECAST MANHOLE

2

1

INTERNAL COMPONENTS (PRE-INSTALLED)

3

1

30

FRAME AND COVER (ROUND)

4

1

12

OUTLET PIPE (BY OTHERS)

5

1

12

INLET PIPE (BY OTHERS)

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DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN: TOLERANCES ARE: FRACTIONS ± 1/16 DECIMALS ± .015 ANGLES ± 1/16

PROJECT

INVERT

MATERIAL

DIAMETER

-

RIM

OUTLET

INLET 1

INLET 2

INLET 3

-

-

-

-

-

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Fax: +1 (207) 756-6212
hydrointl.com

HYDRO INTERNATIONAL
FIRST DEFENSE (FD-3HC)
HYDRODYNAMIC SEPARATOR
(ONLINE)

HYDRO INTERNATIONAL
FIRST DEFENSE (FD-5HC)
HYDRODYNAMIC SEPARATOR
(OFFLINE)

ANY ALTERATIONS OR REVISIONS OF THESE PLANS, UNLESS DONE BY OR UNDER THE DIRECTION OF THE NYS LICENSED AND REGISTERED ENGINEER THAT PREPARED THEM, IS A VIOLATION OF THE NYS EDUCATION LAW.

PROJECT:

SPCA OF WESTCHESTER
590 NORTH STATE ROAD
TOWN OF OSSING
WESTCHESTER COUNTY – NEW YORK

DETAILS

HUDSON
ENGINEERING
CONSULTING, P.C.
45 Knollwood Road – Suite 201
Elmsford, New York 10523
T: 914-909-0420
F: 914-560-2086

DATE

SCALE

DESIGNED BY

CHECKED BY

SHEET NO.

1/7/19

N.T.S.

D.C.

M.S.

9

11

STATE OF NEW YORK

MICHAEL J. STEIN

NO. 00857

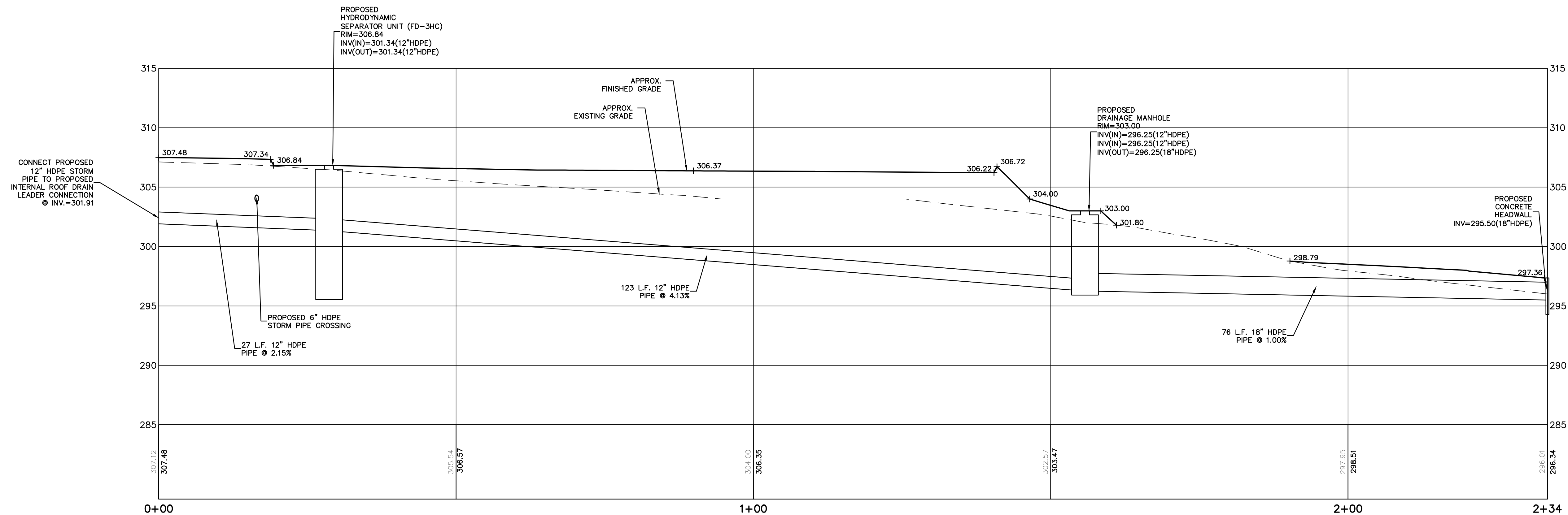
REGISTERED PROFESSIONAL ENGINEER

THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEERS SEAL & SIGNATURE

HEC

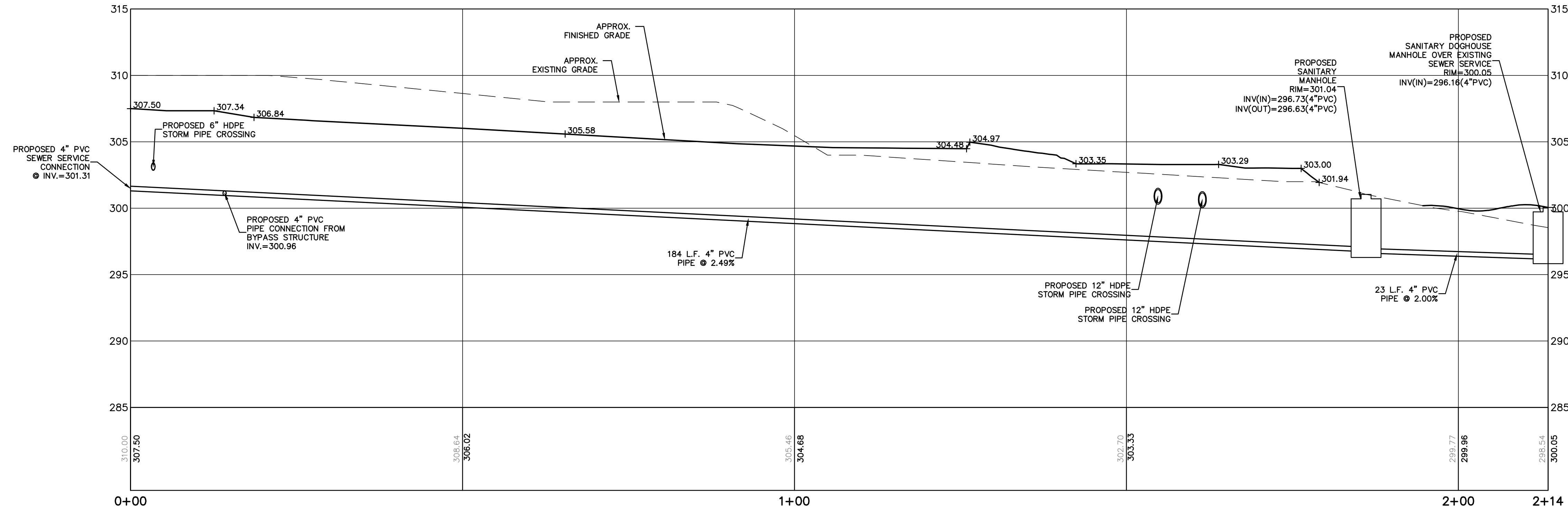
C-9

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STORMWATER PROFILE (TO NORTH)
(STA. 0+00 TO STA. 2+34)

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 5'



SANITARY SEWER PROFILE
(STA. 0+00 TO STA. 2+14)

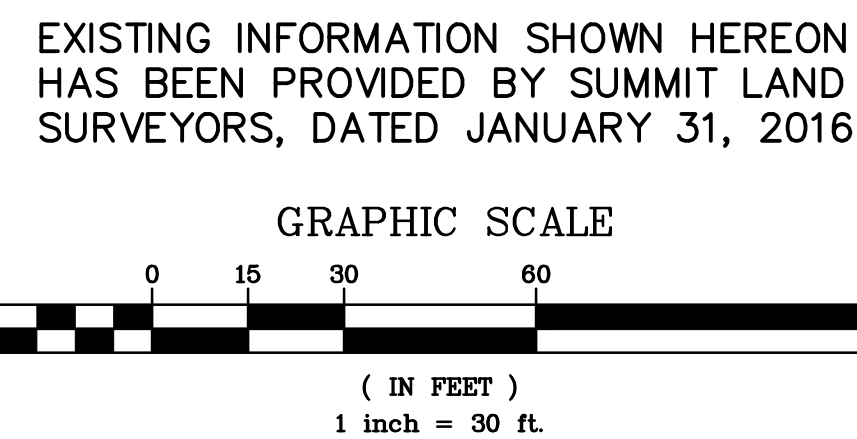
HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 5'

No. _____ Description _____ Revisions _____ Date _____	PROJECT: SPCA OF WESTCHESTER 590 NORTH STATE ROAD TOWN OF OSSINING WESTCHESTER COUNTY - NEW YORK		
	UTILITY PROFILES		
	Date: 1/28/19 Sheet: 10 Scale: N.T.S. Designed By: D.C. Checked By: M.S. Sheet No.		

THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEERS SEAL & SIGNATURE

C-10

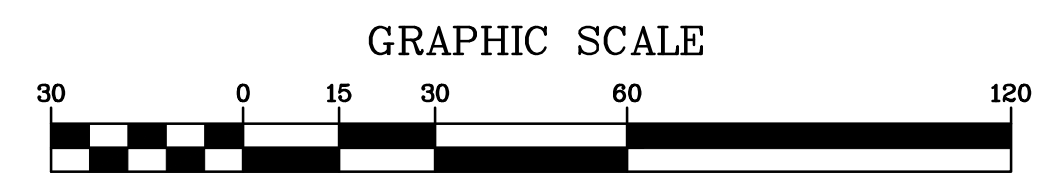
T: 914-909-0420
F: 914-560-2086
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SLOPE ANALYSIS (LIMIT OF DISTURBANCE)				
NO.	MIN. SLOPE	MAX. SLOPE	AREA	COLOR
1	15%	25%	7653	
2	25%	35%	2338	
3	35%	Vertical	1955	

Tree Removal			
Tree No.	Species	Size (DBH)	Condition
160	Cedar	6"	Good
187	Cherry	10"	Fair
166	Cherry	16"	Good
70	Elm	6"	Good
91	Elm	6"	Fair
157	Elm	6"	Good
71	Elm	10"	Good
77	elm	11"	Good
155	Fir	24"	Good
156	Fir	30"	Good
95	Hemlock	6"	Poor
96	Hemlock	6"	Fair
94	Hemlock	8"	Poor
84	Locust	10"	Fair
72	Locust	11"	Good
92	Locust	12"	Fair
90	Locust	14"	Fair
89	Locust	18"	Fair
188	Maple	6"	Fair
73	Maple	6"	Good
81	Maple	7"	Fair
80	Maple	8"	Poor
189	Maple	10"	Fair
124	Maple	18"	Fair
150	Maple	18"	Good
164	Maple	18"	Fair
125	Maple	24"	Fair
165	Maple	24"	Poor
83	Maple	29"	Poor
153	tri. Maple	12", 15", 18"	Fair
64	tw. Maple	6", 16"	Good
167	quad. Maple	8", 8", 8", 16"	Fair
104	Oak	10"	Good
Total Number of Trees Being Removed			33
Total DBH of Trees Being Removed			495 Inches
50% Required DBH to be Replaced (Per Section 183-12.G of the Town Code)			247.5 Inches
Total DBH of Proposed Tree Plantings			183 Inches
Deficit DBH to be Paid to Town Tree Bank Fund (Per Section 183-12.G of the Town Code)			64.5 Inches

EXISTING INFORMATION SHOWN HEREON
HAS BEEN PROVIDED BY SUMMIT LAND
SURVEYORS, DATED JANUARY 31, 2016



Revisions		
No.	Description	Date
3.	REVISED PER TOWN COMMENTS	1/28/19
2.	REVISED PER TOWN COMMENTS	1/17/19
1.	REVISED PER TOWN COMMENTS	11/26/18

SIGNATURE	PROJECT:	SPCA OF WESTCHESTER 590 NORTH STATE ROAD TOWN OF OSSINING WESTCHESTER COUNTY – NEW YORK

SLOPE ANALYSIS & TREE REMOVAL PLAN



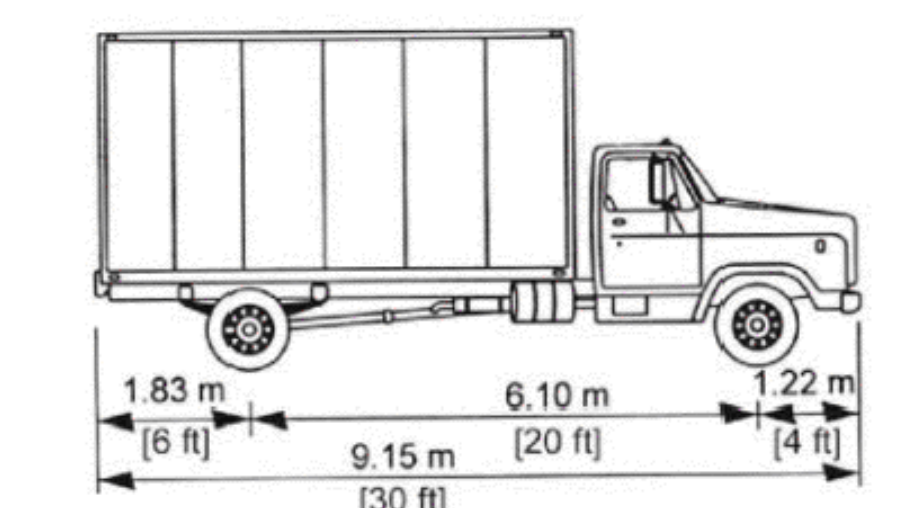
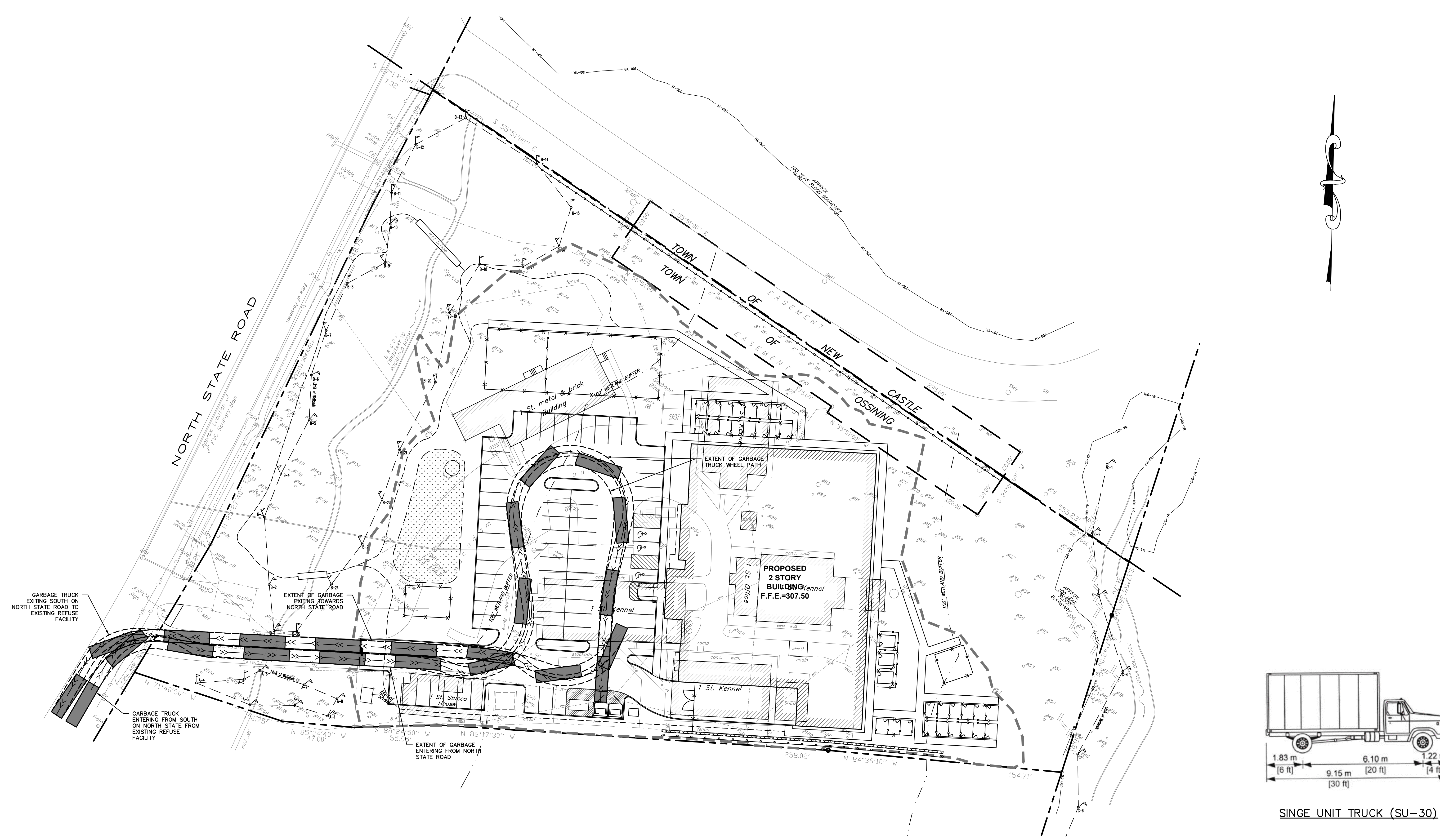
HUDSON
ENGINEERING
&
CONSULTING, P.C.
45 Knollwood Road - Suite 201
Elmsford, New York 10523
T: 914-909-0420
F: 914-560-2086
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Date:	10/9/18	Sheet:	11 / 11
Scale:	1" = 30'		
Designed By:	D.C.		
Checked By:	M.S.		
Sheet No.			

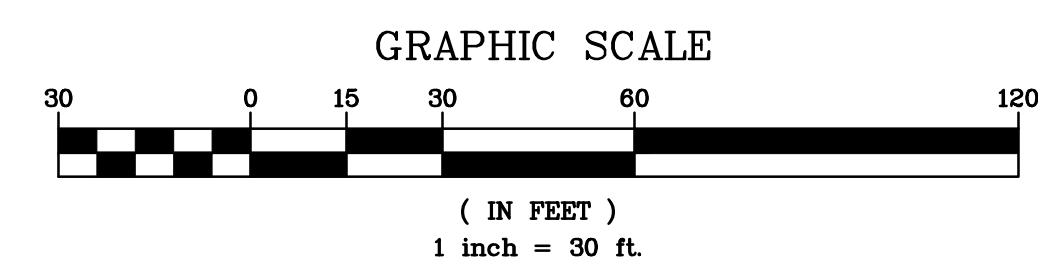
SA-1

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SINGLE UNIT TRUCK (SU-30)

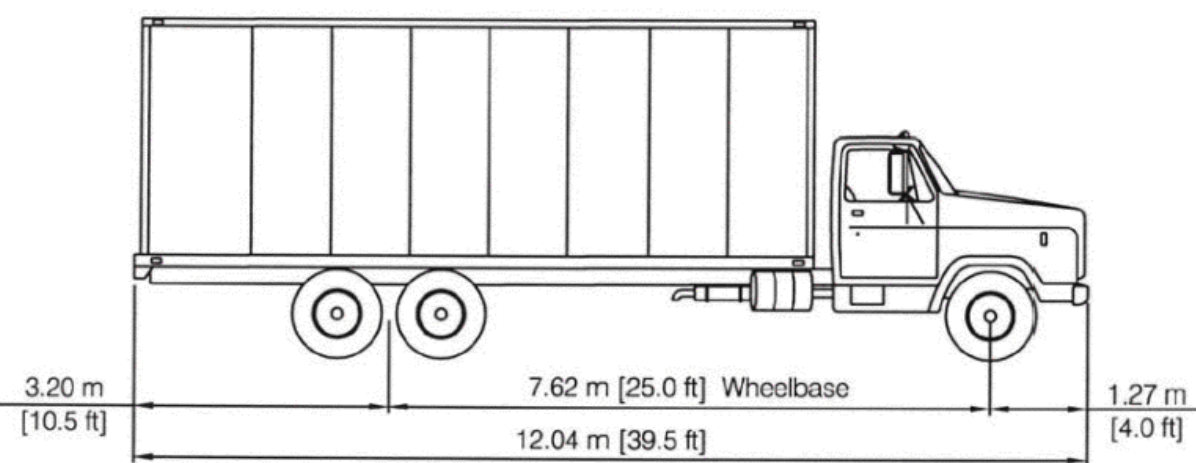
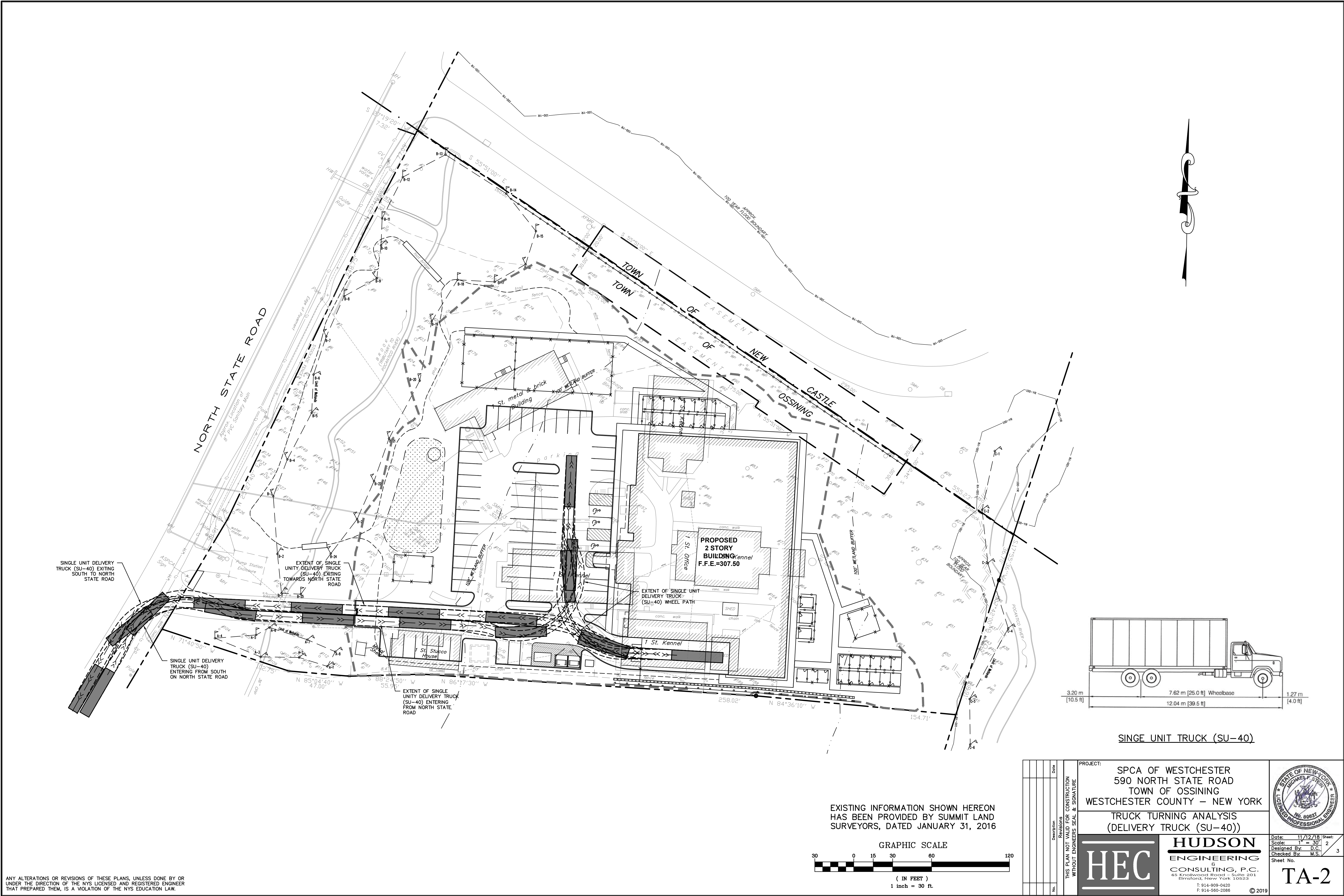
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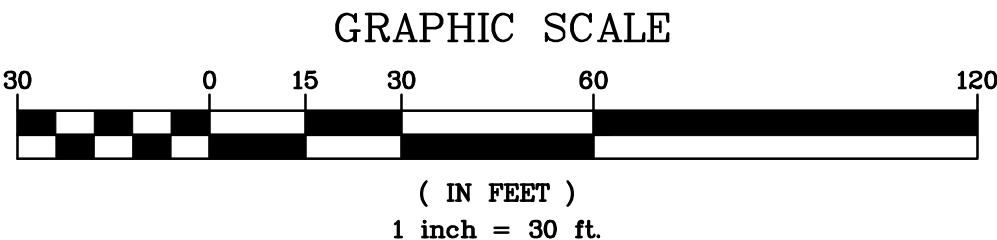
THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEER'S SEAL & SIGNATURE	PROJECT:	SPCA OF WESTCHESTER 590 NORTH STATE ROAD TOWN OF OSSINING WESTCHESTER COUNTY - NEW YORK	
		TRUCK TURNING ANALYSIS (GARBAGE TRUCK (SU-30))	
	HEC	HUDSON ENGINEERING & CONSULTING, P.C.	STATE OF NEW YORK MICHAEL F. STERN LICENSED PROFESSIONAL ENGINEER No. 60657
	Date: 11/12/18 Sheet: 1 Scale: 1" = 30' Designed By: D.C. Checked By: M.S. Sheet No. 3		TA-1

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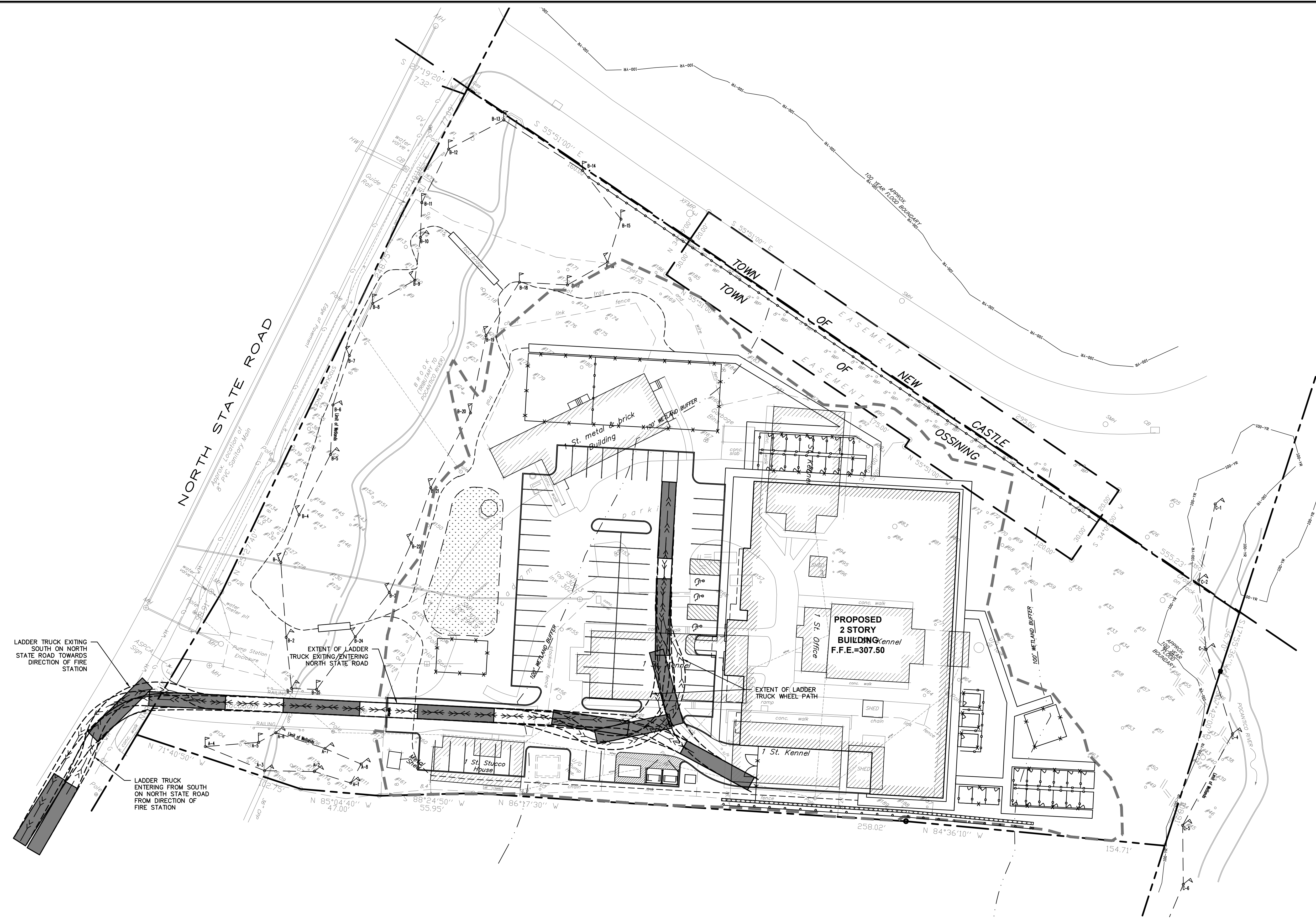
SINGLE UNIT TRUCK (SU-40)

EXISTING INFORMATION SHOWN HEREON
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SURVEYORS, DATED JANUARY 31, 2016



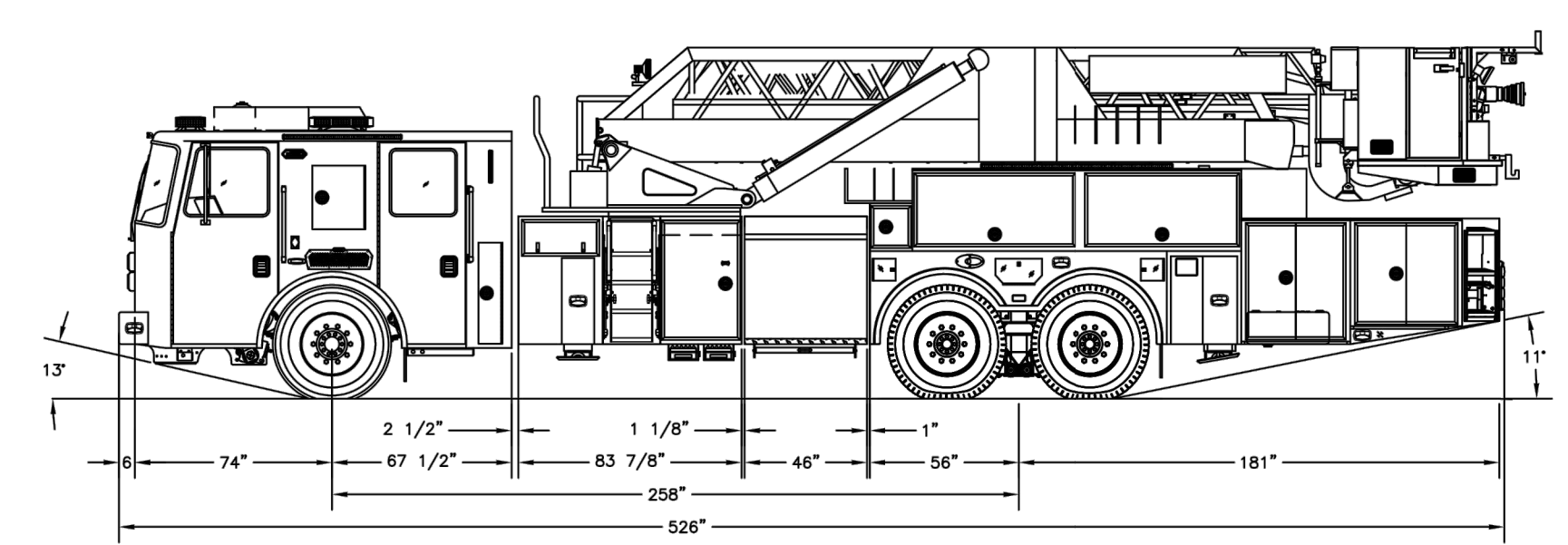
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UNDER THE DIRECTION OF THE NYS LICENSED AND REGISTERED ENGINEER
THAT PREPARED THEM, IS A VIOLATION OF THE NYS EDUCATION LAW.

No.	Description	Revisions	Date	PROJECT:	
				SPCA OF WESTCHESTER 590 NORTH STATE ROAD TOWN OF OSSINING WESTCHESTER COUNTY - NEW YORK	
				TRUCK TURNING ANALYSIS (DELIVERY TRUCK (SU-40))	
				HEC HUDSON ENGINEERING CONSULTING, P.C. 45 Knollwood Road - Suite 201 Elmsford, New York 10523 T: 914-909-0420 F: 914-560-2086 © 2019	
THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEERS SEAL & SIGNATURE					
				Date: 11/12/18 Sheet: 2 Scale: 1" = 30' Designed By: D.C. Checked By: M.S. Sheet No. 3	
				TA-2	



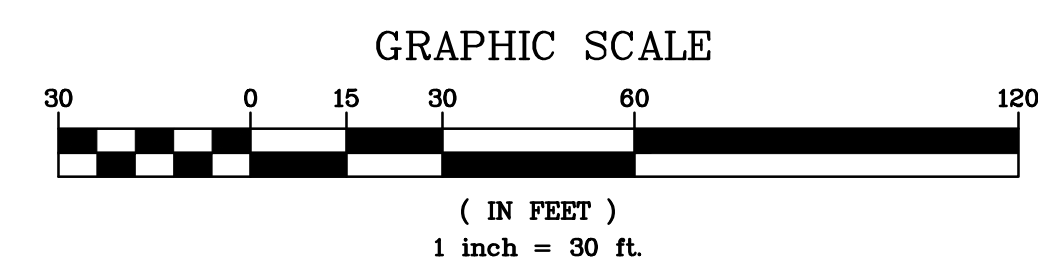
LADDER TRUCK EXITING SOUTH ON NORTH STATE ROAD TOWARDS DIRECTION OF FIRE STATION

LADDER TRUCK ENTERING FROM SOUTH ON NORTH STATE ROAD FROM DIRECTION OF FIRE STATION



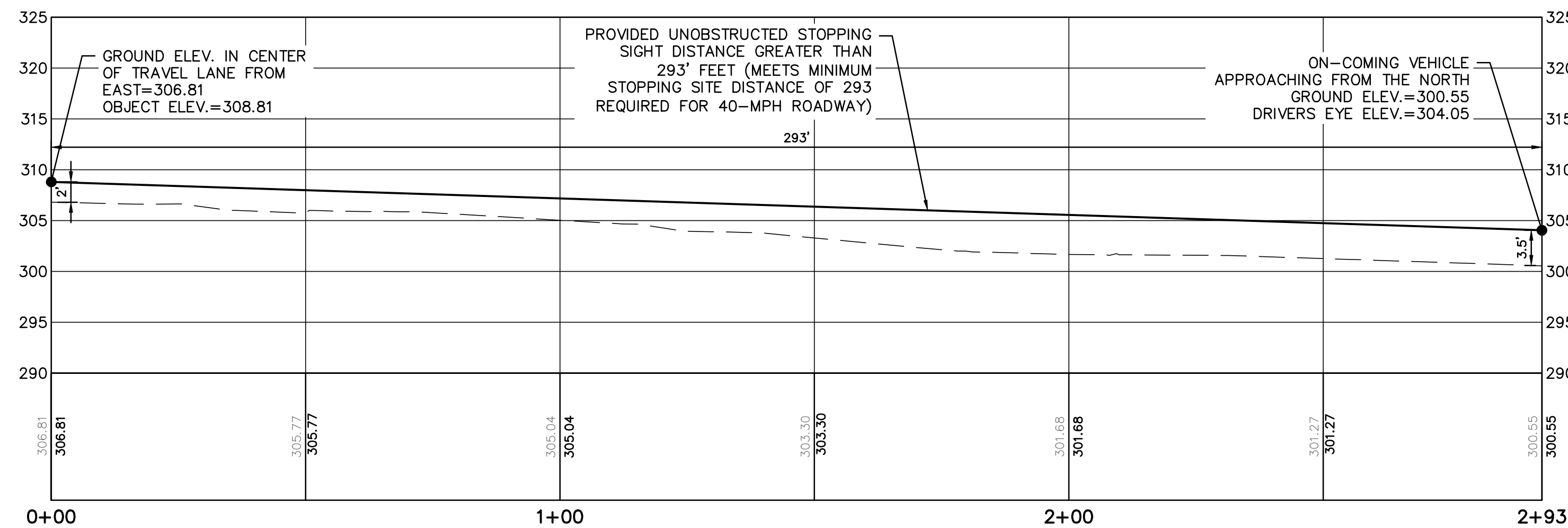
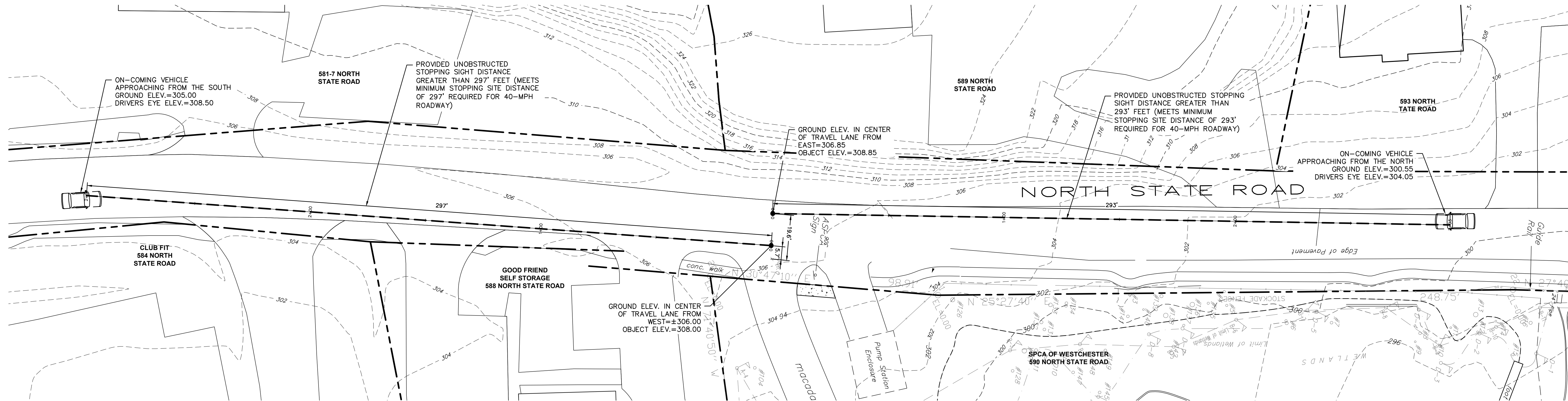
LADDER TRUCK

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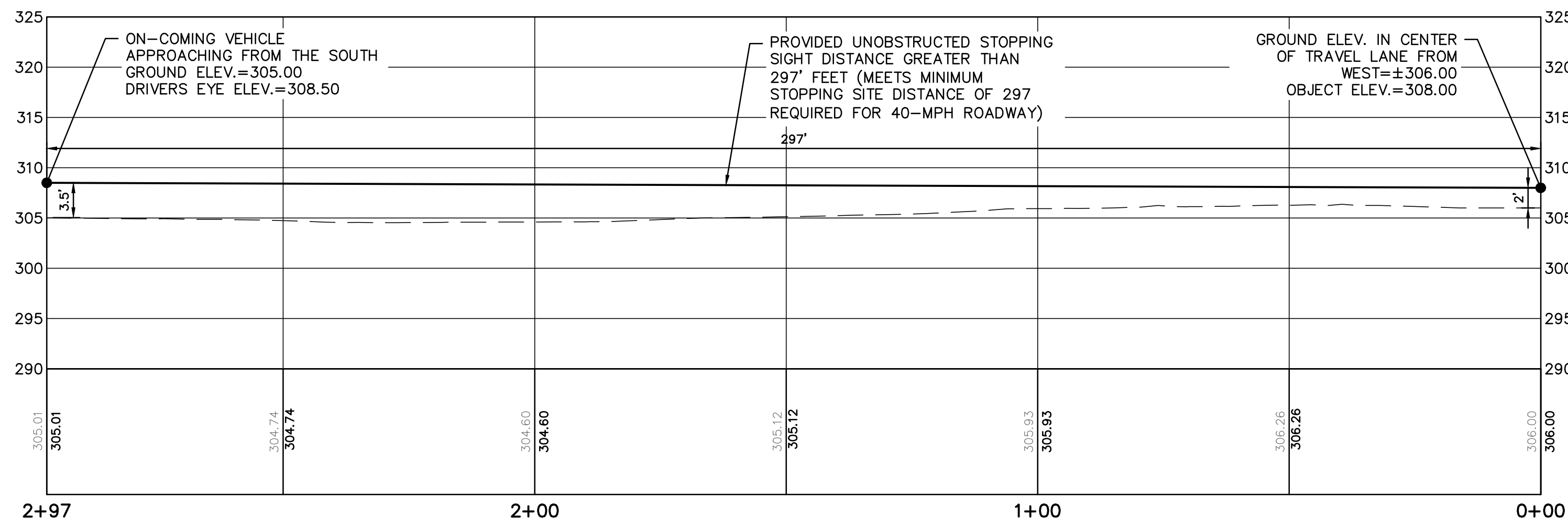
THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEERS SEAL & SIGNATURE No. _____ Date _____ Description _____ Revisions _____ No. _____	PROJECT: SPCA OF WESTCHESTER 590 NORTH STATE ROAD TOWN OF OSSINING WESTCHESTER COUNTY – NEW YORK TRUCK TURNING ANALYSIS (EMERGENCY VEHICLE (LADDER))		 Date: 11/12/18 Sheet: 3 Scale: 1" = 30' Designed By: D.C. Checked By: M.S. Sheet No. TA-3
	HUDSON ENGINEERING & CONSULTING, P.C. 45 Knollwood Road - Suite 201 Elmford, New York 10523 T: 914-909-0420 F: 914-560-2086		
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SIGHT DISTANCE PROFILE (NORTH)
(STA. 0+00 TO STA. 2+93)

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'



SIGHT DISTANCE PROFILE (SOUTH)
(STA. 0+00 TO STA. 2+97)

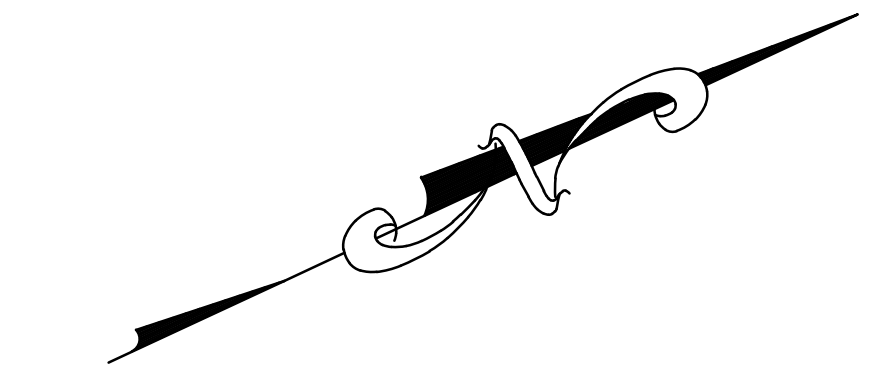
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'

Braking Distance Formula: $d_b = V^2/[30(a/32.2) \pm g/100]$	
Stopping Sight Distance Formula: $SSD = 1.47Vt +$	
Posted Speed Limit =	30 mph
Design Speed Limit (V) =	(85th percentile) 40 mph
Deceleration Rate (a) =	11.2 ft/sec.
Approximate Grade (G) =	1.75 %
Perception/Reaction Time (t) =	2.5 sec.
Minimum Calculated	
Breaking Distance (d_b) =	146 (ft) design
Minimum Calculated	
Stopping Sight Distance (SSD) =	293 (ft) design
Approaching Ground Elev. =	300.55 (ft)
Approaching Driver's Eye =	3.5 (ft)
Approaching Eye Elev. =	304.05
Ground Elev. at Object in Driveway =	306.85 (ft)
Min. Height of Object in Driveway =	2.0 (ft)
Elev. of Object in Driveway =	308.85 (ft)

SIGHT DISTANCE CALCULATIONS
(APPROACHING FROM NORTH)

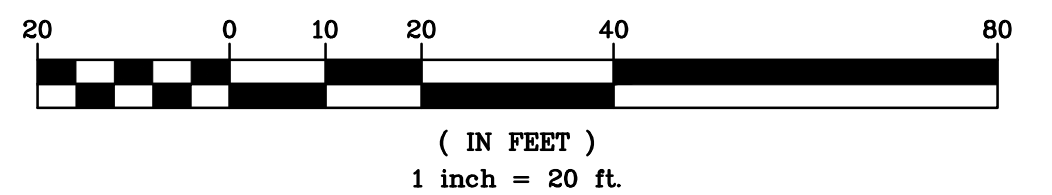
Braking Distance Formula: $d_b = V^2/[30(a/32.2) \pm g/100]$	
Stopping Sight Distance Formula: $SSD = 1.47Vt +$	
Posted Speed Limit =	30 mph
Design Speed Limit (V) =	(85th Percentile) 40 mph
Deceleration Rate (a) =	11.2 ft/sec.
Approximate Grade (G) =	1 %
Perception/Reaction Time (t) =	2.5 sec.
Minimum Calculated	
Breaking Distance (d_b) =	150 (ft) design
Minimum Calculated	
Stopping Sight Distance (SSD) =	297 (ft) design
Approaching Ground Elev. =	305.00 (ft)
Approaching Driver's Eye =	3.5 (ft)
Approaching Eye Elev. =	308.50
Ground Elev. at Object in Driveway =	306.00 (ft)
Min. Height of Object in Driveway =	2.0 (ft)
Elev. of Object in Driveway =	308.00 (ft)

SIGHT DISTANCE CALCULATIONS
(APPROACHING FROM SOUTH)



EXISTING INFORMATION SHOWN HEREON HAS BEEN PROVIDED BY SUMMIT LAND SURVEYORS, DATED JANUARY 31, 2016, AND SUPPLEMENTED WITH ADDITIONAL INFORMATION PROVIDED BY WESTCHESTER COUNTY GIS

GRAPHIC SCALE



No.	Description	Date	PROJECT:	
			SPCA OF WESTCHESTER 590 NORTH STATE ROAD TOWN OF OSSING WESTCHESTER COUNTY – NEW YORK	
			SIGHT DISTANCE PLAN	
			HUDSON ENGINEERING & CONSULTING, P.C. 45 Knollwood Road – Suite 201 Elmsford, New York 10523 T: 914-909-0420 F: 914-560-2086 © 2019	
THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEERS SEAL & SIGNATURE			Date: 11/26/18 Sheet: 1 Scale: 1" = 20' Designed By: D.C. Checked By: M.S. Sheet No. 1	
			SD-1	