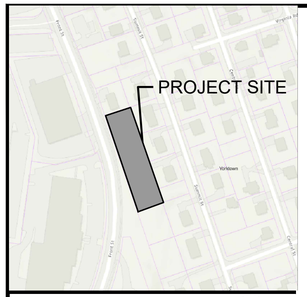

LOCATION MAP
NOT TO SCALE

SITE DATA:

OWNER / DEVELOPER:	TANTO IRRIGATION, LLC. 5 N. PAYNE STREET ELMSFORD, NY 10536
PROJECT LOCATION:	EDGEWOOD STREET/FRONT STREET YORKTOWN HEIGHTS, YORKTOWN, NEW YORK, 10598
EXISTING TOWN ZONING:	TRANSITION
PROPOSED USE:	TRANSITION
TOWN TAX MAP DATA:	SECTION 48.07, BLOCK 2, LOT 11,13,15 & 17
SITE AREA :	0.8035 ACRES (35,000 SF)
SEWAGE FACILITIES:	PUBLIC SEWERS
WATER FACILITIES:	PUBLIC WATER FACILITIES

ZONING SCHEDULE:

ZONING DISTRICT: TRANSITION ZONE BULK STANDARDS	
DIMENSIONAL REGULATIONS:	PROVIDED
MINIMUM SIZE OF LOT: MINIMUM LOT AREA: MINIMUM LOT WIDTH:	 35,000 SF. 100 FT.
MINIMUM YARD DIMENSIONS: PRINCIPAL BUILDING: FRONT YARD SETBACK: REAR YARD SETBACK: ONE SIDE YARD SETBACK: COMBINED SIDE YARD SETBACK:	PROPOSED BLDG 9.5 FT. 29.6 FT. 27.1 FT. 42 FT.
MAXIMUM % OF LOT TO BE OCCUPIED:	15 % OF LOT AREA
PRINCIPAL BUILDING COVERAGE:	TOTAL: 15 % OF LOT AREA
MAXIMUM HEIGHT: PRINCIPAL BUILDING - FEET:	 25 FT MAX

PARKING SCHEDULE

REQUIRED PARKING:	4 SPACES PER 1000 SF OF OFFICE SPACE 1.0 SPACES PER 2 PERSONS UTILIZING SPACE 1.0 SPACES PER 2 PERSONS WORKING IN ESTABLISHMENT
OFFICE SPACE:	2,640 S.F. @ 4 SPACES/1000 S.F. = 11 SPACES
REPAIR SHOP:	8 EMPLOYEES @ 1 SPACES/ 2 EMPLOYEES = 4 SPACES
STORAGE:	1 EMPLOYEES @ 1 SPACES/ 2 EMPLOYEES = 1 SPACES
TOTAL REQUIRED PARKING:	16 SPACES
TOTAL PROVIDED PARKING:	16 SPACES

NOTE:
1. PER THE TOWN BOARD RESOLUTION #485, DATED DECEMBER 19,2017, THE PLANNING BOARD SHALL HAVE THE APPROVAL AUTHORITY FOR THE LANDSCAPE PLAN, LIGHTING PLAN, STORMWATER POLLUTION PREVENTION PLAN, REFUSE ENCLUSRE DETAILS AND PICKUP TIMES, ENTRANCE SIGNAGE, AND CONSTRUCTION AND INFRASTRUCTURE DETAILS.
2. REFUSE PICKUP TIMES SHOULD BE LIMITED TO BETWEEN 7 AM AND 6 PM MONDAY THROUGH SATURDAY.

700.000
N19° 17' 39.46"W
S 6° 04' 00" E
PROPERTY LINE
PROPOSED TRASH ENCLOSURE
PROPOSED CONC. SIDEWALK (TYP.)
PROPOSED 6" CONC. CURB (TYP.)
PROPOSED RETAINING WALL
350.00'
POROUS PAVEMENT
ZONING SETBACK LINE
OUTDOOR EQUPIMENT STORAGE
(ASPHALT PAVEMENT)
ROLLING GATE
PROPOSED 6" CONC. CURB (TYP.)
6' HIGH CHAIN LINK FENCE W/
PRIVACY SLATS (TYP.)
N 83° 56' 00" E
N 83° 56' 00" W
100.00'
6 SPACES
5 SPACES
3 SPACES
PROPOSED TWO STORY BUILDING
1ST FLOOR REPAIR SHOP / STORAGE
2ND FLOOR OFFICE SPACE
F.F. ELEV.= 451.0
S.F.ELEV.=461.0
5,370 S.F.
TWO STORY REPAIR SHOP
GARAGE DOOR ENTRY
STORAGE FIRST FLOOR
OFFICE SECOND FLOOR
N 6° 04' 00" W
CONCRETE CURB
SIDEWALK
CONCRETE
FRONT STREET
FUTURE ROAD EXTENSION
CONCRETE APRON AT DRIVEWAY ENTRANCE (TYP.)
PROPOSED 6" WIDE RECESSED CURB WITH 1" REVEAL TO PREVENT RUNOFF FROM ENTERING SITE AT ALL ACCESS POINTS
SIGN
DROP CURB

LEGEND

- PROPERTY LINE / RIGHT OF WAY
- PROPOSED ROAD CENTERLINE
- PROPOSED CURB
- PROPOSED BUILDING AND DRIVE
- PROPOSED RETAINING WALLS
- PROPOSED POROUS PAVERS

0 10 20 40
SCALE: 1"=20'-0"

NOTE:
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F:\2025\25-33 TANTO IRRIGATION (GUILLARO)- N. PAYNE ST. ELMSFORD\ENGINEERING\CAD\C3D-25-33 TANTO IRRIGATION N PAYNE ST ELMSFORD\D\W2\25- TANTO IRRIG SITE PLAN 04-09-2026.DWG 11/6/2017 3:19:52 PM

NOTE: UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 I21 OF THE NEW YORK STATE EDUCATION LAW.

PROJECT # 25-33

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www.sitedesignconsultants.com

Engineer
JOSEPH C. GUILLARO, P.E. NYS Lic. No. 64431

Revisions:

No.	Date	Comments:
1	10/14/25	PB Comments
2	3/03/26	SWPPP Update
3	4/13/26	Plan Update
4	4/26/26	Plan Update

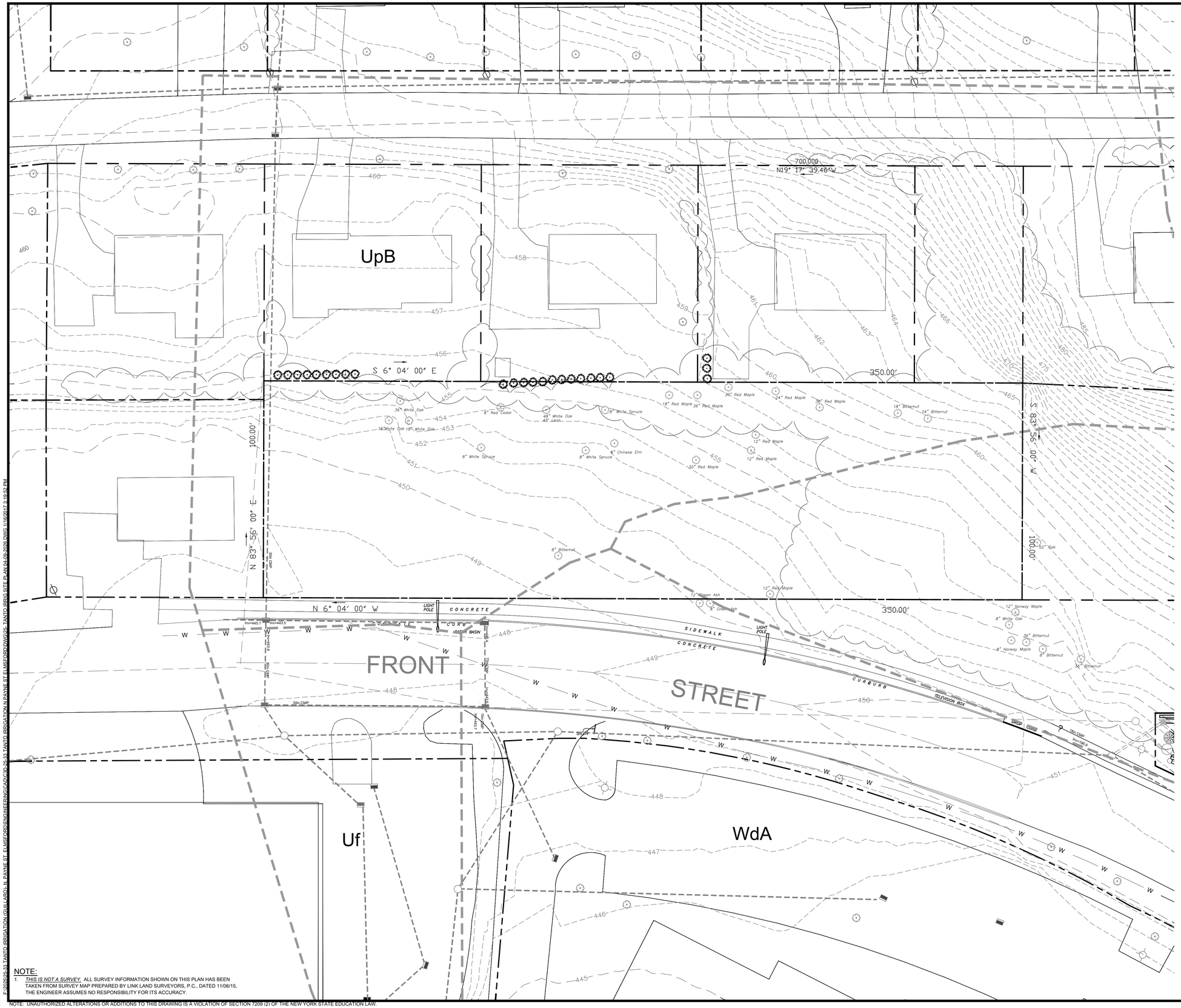
SCALE: 1" = 20'
DRAWN BY: JCR
DATE: 8/25/25

AMENDED SITE PLAN

AMENDED SITE PLAN
PREPARED FOR
TANTO IRRIGATION, LLC.
Formerly Lake Osceola Entertainment, LLC.
FRONT STREET
Town of Yorktown Westchester County, NY

Sheet 1 of 13

F:\2025\25-33 TANTO IRRIGATION (GUILLARO)-N. PAYNE ST. ELMSFORD\ENGINEERING\CADD\3D-25-33 TANTO IRRIGATION N PAYNE ST ELMSFORD\DWG\25- TANTO IRRIG SITE PLAN 04-09-2026.DWG 1/16/2017 3:19:52 PM



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LEGEND

- 222 — EXISTING GRADING
- ×222.8 — EXISTING SPOT GRADE
- PROPERTY LINE / RIGHT OF WAY
- W — EXISTING WATER LINE
- EXISTING FIRE HYDRANT
- EXISTING DRAINAGE INLET
- S — EXISTING SANITARY LINE

0 10 20 40

SCALE: 1"=20'-0"

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Engineer: STATE OF NEW YORK JOSEPH C. GUILLARO 24319 LICENSED PROFESSIONAL ENGINEER
Joseph C. Guillaro, P.E.
NYS Lic. No. 64431

Revisions:

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3	4/13/26	Plan Update
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DRAWN BY: JCR
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EXISTING CONDITIONS

AMENDED SITE PLAN
PREPARED FOR
TANTO IRRIGATION, LLC.
FRONT STREET
Town of Yorktown Westchester County, NY

Sheet 2 of 13

TW: 454.00
BW: 452.75

TW: 457.00
BW: 453.50

PROPOSED RAIN GARDENS AND INFILTRATORS TO BE SURROUNDED BY CONSTRUCTION FENCING AND SILT FENCING

TW: 465.40
BW: 460.40

TW: 465.46
BW: 460.17

TW: 462.89
BW: 459.10

PROPOSED SOIL STOCKPILE (TYP.)

PROPOSED SILT FENCING (TYP.)

700.000
N19° 17' 39.46"W

OUTDOOR EQUIPMENT STORAGE
(ASPHALT PAVEMENT)

PROPOSED TWO STORY BUILDING
1ST FLOOR REPAIR SHOP / STORAGE
2ND FLOOR OFFICE SPACE
F.F. ELEV.= 451.0
S.F.ELEV.=461.0
5,370 S.F.

TW: 456.00
BW: 452.87

FRONT STREET

PROPOSED STAGING AREA (TYP.)

PROPOSED LIMIT OF DISTURBANCE (TYP.)
0.97 ACRES

PROPOSED TREE PROTECTION (TYP.)

PROPOSED STONE AND BLOCK INLET PROTECTION (TYP.)

PROPOSED RAIN GARDENS AND INFILTRATORS TO BE SURROUNDED BY CONSTRUCTION FENCING AND SILT FENCING

PROPOSED STABILIZED CONSTRUCTION ENTRANCE (TYP.)

LEGEND

- EXISTING GRADING
- EXISTING SPOT GRADE
- PROPOSED GRADING
- PROPERTY LINE / RIGHT OF WAY
- PROPOSED CURB
- EXISTING WATER LINE
- EXISTING FIRE HYDRANT
- EXISTING DRAINAGE INLET
- EXISTING SANITARY LINE
- PROPOSED DRAINAGE LINE
- PROPOSED CATCH BASIN
- PROPOSED DRAINAGE MANHOLE
- PROPOSED SEWER SERVICE CONNECTION
- PROPOSED WATER SERVICE CONNECTION
- PROPOSED BUILDING AND DRIVE
- PROPOSED RETAINING WALLS
- PROPOSED SOIL STOCKPILES
- PROPOSED SILT FENCE
- PROPOSED CRUSHED STONE INLET PROTECTION
- PROPOSED STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED CONSTRUCTION FENCE

0 10 20 40
SCALE: 1"=20'-0"

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PROJECT # 25-33

STATE OF NEW YORK — JOSEPH C. RIINA — 075749 — LICENSED PROFESSIONAL ENGINEER
Engineer
Joseph C. Riina, P.E.
NYS Lic. No. 64431

Revisions:

No.	Date	Comments
1	10/27/25	PB#1 Comments
2	3/03/26	SWPPP Update
3	4/13/26	Plan Update
4	4/26/26	Plan Update

SCALE: 1" = 20'
DRAWN BY: JCR
DATE: 8/25/25

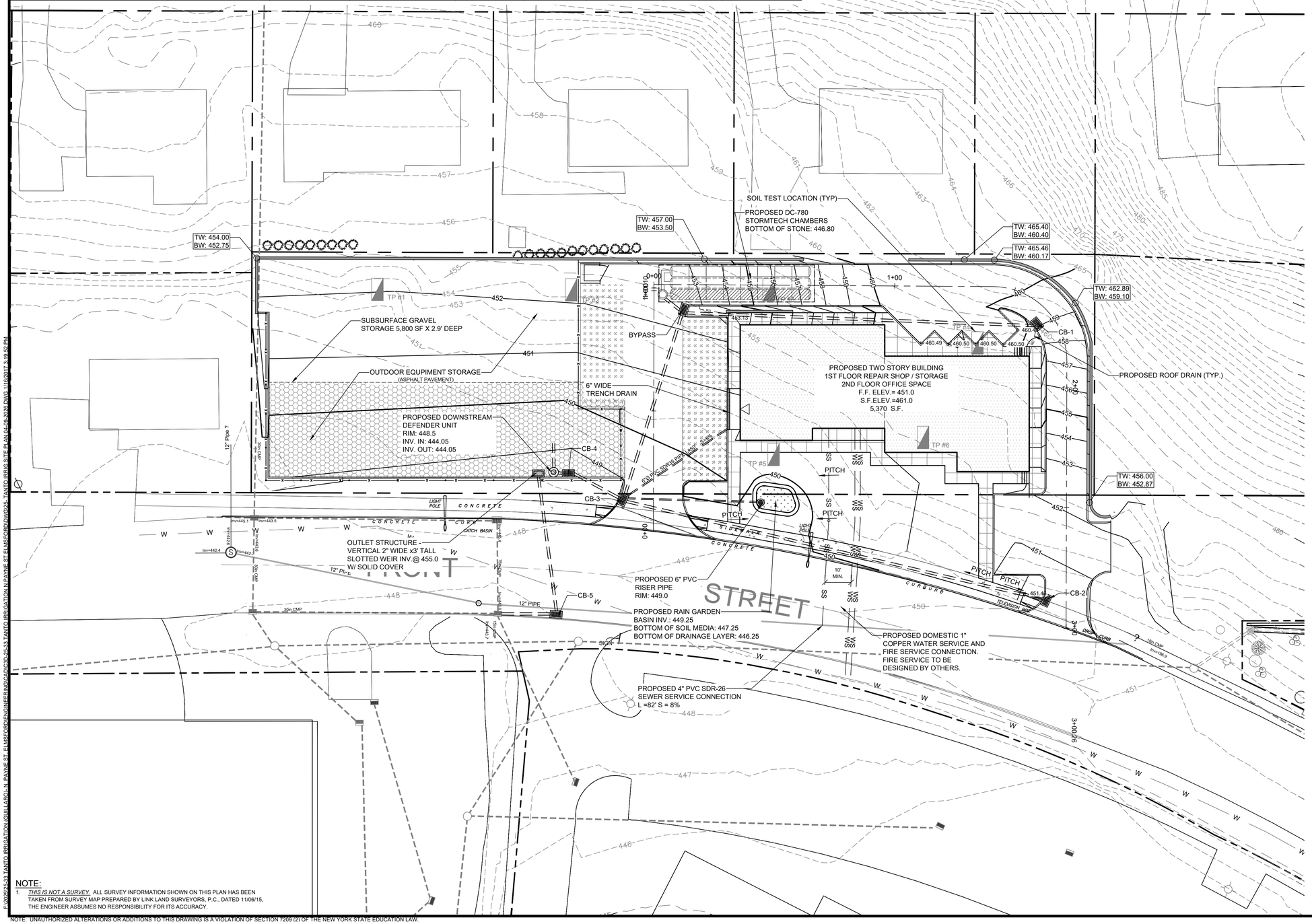
E&SC PLAN

AMENDED SITE PLAN
PREPARED FOR
TANTO IRRIGATION, LLC.
FRONT STREET
Town of Yorktown Westchester County, NY

Sheet 13 of 13

TANTO FRONT STREET DRAINAGE SCHEDULE

PIPE	UPSTREAM STRUCTURE	RIM ELEVATION	DOWNSTREAM STRUCTURE	LENGTH (FT)	UPSTREAM INV.	DOWNSTREAM INV.	SLOPE (%)	PIPE DIAMETER (INCHES)
CB-1 TO BYPASS	CB-1	459	BYPASS	145.00	456.00	450.10	4.06	12
BYPASS TO SC-800 CHAMBERS	BYPASS	452.5	SC-800 CHAMBERS	8.00	448.08	448.00	1.00	8
BYPASS TO CB-3	BYPASS	452.5	CB-3	78.00	449.50	446.10	4.36	12
CB-2 TO CB-3	CB-2	451.1	CB-3	178.00	448.10	446.10	1.12	12
RAINGARDEN TO CB-3	RAINGARDEN	449.5	CB-3	55.00	446.65	446.10	1.00	6
CB-3 TO CB-4	CB-3	449.1	CB-4	23.00	445.85	445.62	1.00	12
CB-4 TO DOWNSTREAM DEFENDER	CB-4	448.5	DOWNSTREAM DEFENDER	5.00	445.37	445.00	1.00	12
DOWNSTREAM DEFENDER TO GRAVEL	DOWNSTREAM DEFENDER	448.5	GRAVEL STORAGE BED	10	445.00	445.00	1.00	12
GRAVEL STORAGE BED TO OUTLET	GRAVEL STORAGE BED	N/A	OUTLET STRUCTURE	WEIR	445.00	445.00	0.00	N/A
OUTLET STRUCTURE TO CB-5	OUTLET STRUCTURE	448.5	CB-5	57.00	445.00	444.41	0.50	12
CB-5 TO EXISTING CB	CB-5	448	EX-CB	14.00	444.16	443.98	1.00	15



LEGEND

- EXISTING GRADING
- EXISTING SPOT GRADE
- PROPOSED GRADING
- PROPERTY LINE / RIGHT OF WAY
- PROPOSED ROAD CENTERLINE
- PROPOSED CURB
- EXISTING WATER LINE
- EXISTING FIRE HYDRANT
- EXISTING DRAINAGE INLET
- EXISTING SANITARY LINE
- PROPOSED DRAINAGE LINE
- PROPOSED CATCH BASIN
- PROPOSED DRAINAGE MANHOLE
- PROPOSED SEWER SERVICE CONNECTION
- PROPOSED WATER SERVICE CONNECTION
- PROPOSED SANITARY MANHOLE AND LINE
- PROPOSED BUILDING AND DRIVE
- PROPOSED RETAINING WALLS
- PROPOSED POROUS PAVERS
- PROPOSED CONCRETE WALKWAYS

0 10 20 40

SCALE: 1"=20'-0"

N

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PROJECT # 25-33

Engineer: JOSEPH C. RIINA — STATE OF NEW YORK — LICENSED PROFESSIONAL ENGINEER
Joseph C. Riina, P.E.
NYS Lic. No. 64431

Revisions:

No.	Date	Comments:
1	10/14/25	PB Comments
2	3/03/26	SWPPP Update
3	4/13/26	Plan Update
4	4/26/26	Plan Update

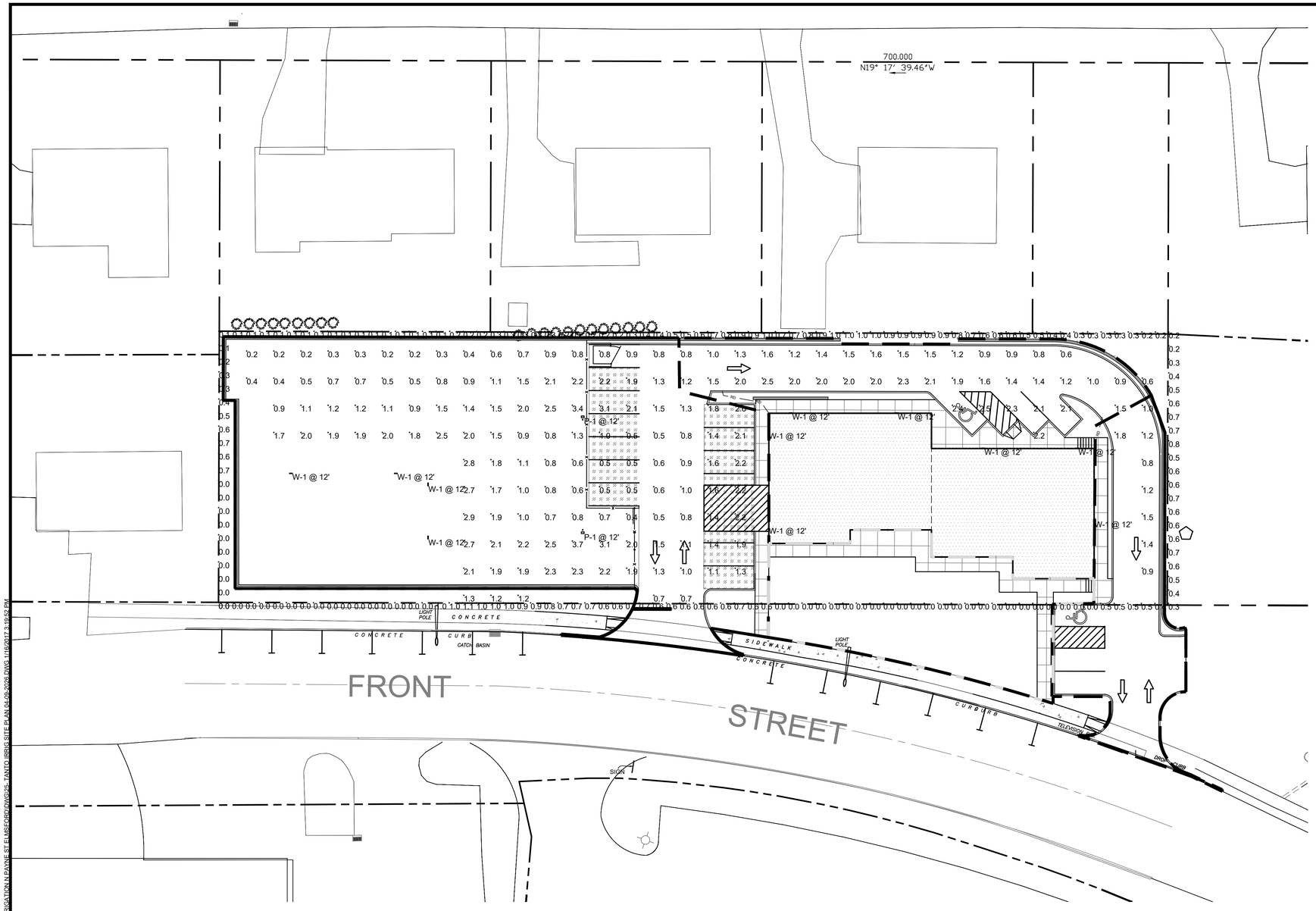
SCALE: 1" = 20'
DRAWN BY: JCR
DATE: 8/25/25

IMPROVEMENT PLAN

AMENDED SITE PLAN
PREPARED FOR
TANTO IRRIGATION, LLC.

FRONT STREET
Town of Yorktown Westchester County, NY

Sheet 4 of 13



Note
1. THESE LIGHTING CALCULATIONS ARE NOT A SUBSTITUTE FOR INDEPENDENT ENGINEERING ANALYSIS OF LIGHTING SUITABILITY AND SAFETY.
2. THIS PHOTOMETRICS LAYOUT WAS CALCULATED USING SPECIFIC CRITERIA, ANY DEVIATION FROM STATED PARAMETERS WILL AFFECT ACTUAL PERFORMANCE.
3. ALL QUANTITIES ARE BASED ON FIXTURES SHOWN IN THE LIGHTING CALCULATIONS ONLY.
4. THESE CALCULATIONS ARE BASED ON LISTED FIXTURES ONLY. SUBSTITUTION OF THESE FIXTURES VOIDS ALL CALCULATIONS.
5. ACUITY BRANDS LIGHTING RESERVES THE RIGHT TO WITHDRAW THESE COPYRIGHTED LIGHTING PLANS FROM PUBLIC RECORD IF SUBSTITUTIONS OCCUR.
6. ALL SUBSTITUTIONS REQUIRE NEW CALCULATIONS BASED ON THE FIXTURES SUPPLIED.
7. ACTUAL LIGHT LEVELS MAY VARY DUE TO ACTUAL FIXTURE LOCATIONS AND FIELD CONDITIONS.

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Parking Area	+	1.4 fc	3.7 fc	0.2 fc	18.5:1	7.0:1
Property Line Trespass	+	0.4 fc	1.1 fc	0.0 fc	N/A	N/A

LEGEND

- PROPERTY LINE / RIGHT OF WAY
- PROPOSED ROAD CENTERLINE
- PROPOSED CURB
- PROPOSED BUILDING AND DRIVE
- PROPOSED RETAINING WALLS

0 10 20 40

SCALE: 1"=20'-0"

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Osceola Lake Entertainment
Front Street - Town of Yorktown
Site Lighting Calculations

Designer
Andrew Gross, LC
Date
5/24/2019
Scale
Not to Scale
Drawing No.
Version 1
Summary

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PROJECT # 25-33

Engineer: STATE OF NEW YORK JOSEPH C. RISITANO LICENSED PROFESSIONAL ENGINEER
Joseph C. Risitano, P.E.
NYS Lic. No. 64431

Revisions:

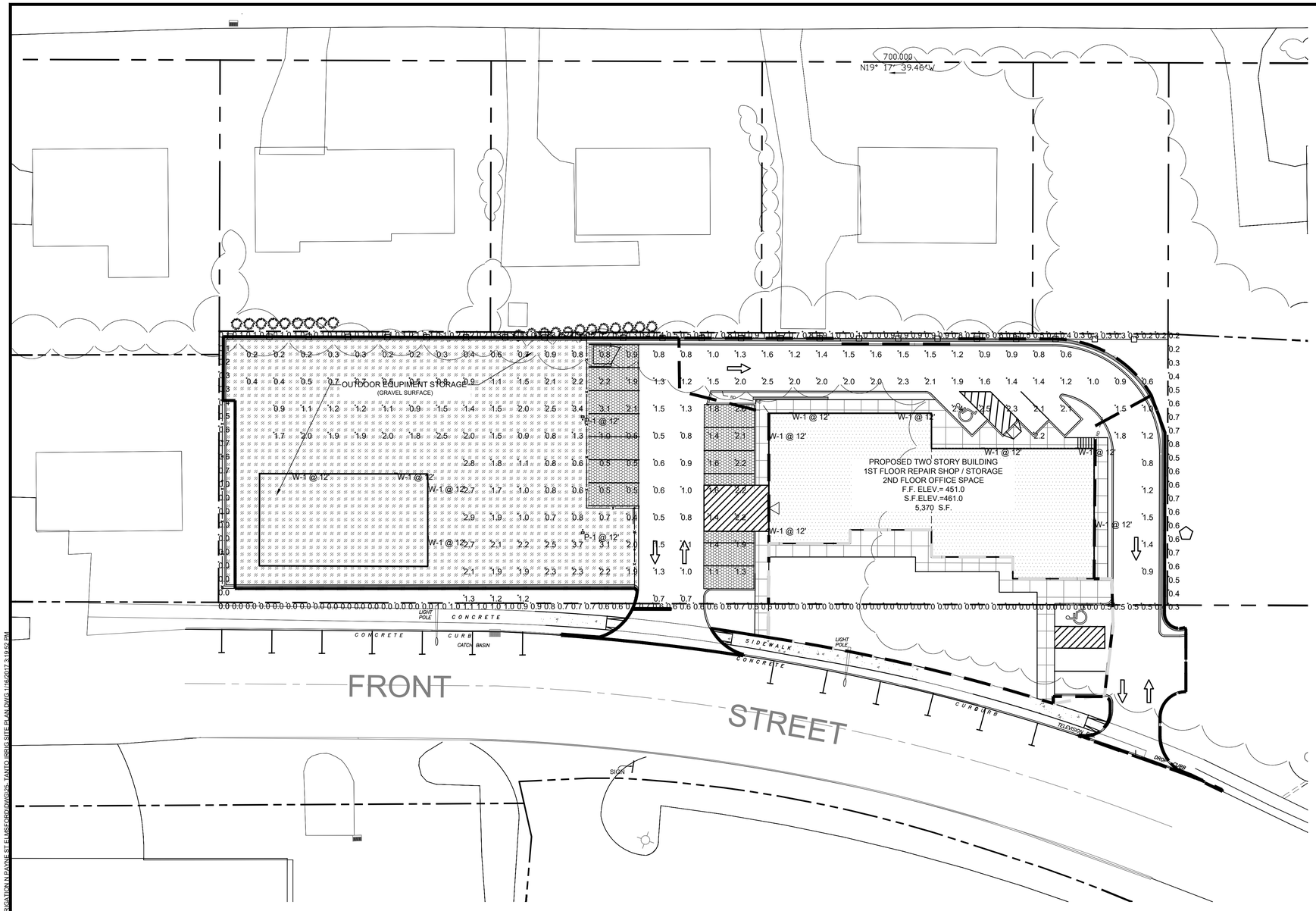
No.	Date	Comments:
1	10/10/25	PRV Comments
2	3/02/26	SWPPP Update
3	4/13/26	Plan Update
4	4/26/26	Plan Update

SCALE: 1" = 20'
DRAWN BY: JCR
DATE: 8/25/25

LIGHTING PLAN

AMENDED SITE PLAN
PREPARED FOR
TANTO IRRIGATION, LLC.
FRONT STREET
Town of Yorktown Westchester County, NY

Sheet 5 of 13



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Property Line Trespass	+	0.4 fc	1.1 fc	0.0 fc	N/A	N/A

LEGEND

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- PROPOSED CURB
- PROPOSED BUILDING AND DRIVE
- PROPOSED RETAINING WALLS

0 10 20 40

SCALE: 1"=20'-0"

N

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Osceola Lake Entertainment
Front Street - Town of Yorktown
Site Lighting Calculations

Designer
Andrew Gross, LC
Date
5/24/2019
Scale
Not to Scale
Drawing No.
Version 1
Summary

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Engineer:
STATE OF NEW YORK JOSEPH C. RISITANO LICENSED PROFESSIONAL ENGINEER
Joseph C. Risitano, P.E.
NYS Lic. No. 64431

Revisions:

No.	Date	Comments:
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2	1/02/26	SWPPP Update
3	4/13/26	Plan Update
4	4/26/26	Plan Update

SCALE: 1" = 20'
DRAWN BY: JCR
DATE: 8/25/25

LANDSCAPE PLAN

AMENDED SITE PLAN
PREPARED FOR
TANTO IRRIGATION, LLC.
FRONT STREET
Town of Yorktown Westchester County, NY

Sheet 6 of 13

CONSTRUCTION SEQUENCE

RECOMMENDED SEQUENCE OF CONSTRUCTION

USE OF EROSION AND SEDIMENT CONTROL STRUCTURES AND PRACTICES ARE IMPORTANT FOR MAINTAINING SITE STABILITY UNDER RUNOFF AND DURING DAILY CONSTRUCTION ACTIVITIES. THE CONSTRUCTION SEQUENCE SHOULD BE STAGED WITH EROSION AND SEDIMENT CONTROLS, AS FOLLOWS, WITH ALL CONTROLS IN PLACE AND IMPLEMENTED PRIOR TO RESPECTIVE INFRASTRUCTURE CONSTRUCTION. AS CONSTRUCTION PROCEEDS, THE CONTROLS SHOULD BE MONITORED, MAINTAINED AND REPLACED AS NEEDED. ADDITIONAL CONTROLS MAY BE REQUIRED AS NEEDED TO ADDRESS UNFORESEEN SITUATIONS.

REFER TO THE CONSTRUCTION DRAWINGS FOR ALL PLANS AND DETAILS WHICH RELATE TO THE CONSTRUCTION SEQUENCE. THIS SEQUENCE SHOULD BE FOLLOWED IN CONJUNCTION WITH ALL PLANS, NOTES, AND THE STORMWATER POLLUTION PREVENTION PLAN. PRIOR TO THE COMMENCEMENT OF WORK, THE OWNER AND GENERAL CONTRACTOR SHALL READ AND UNDERSTAND THE SEQUENCE FOR CONSTRUCTION. THE SEQUENCE SHALL BE DISCUSSED AT THE TIME OF THE PRE-CONSTRUCTION MEETING.

DURING CONSTRUCTION OF THE PROJECT, THE CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL REQUIRED INSPECTIONS WITH VARIOUS AGENCIES AND THE PROJECT ENGINEER.

THE TOWN OF YORKTOWN WILL MAKE THE APPLICATION TO THE UTILITY COMPANY (CONED) FOR THE NEW THREE(3) PHASE SERVICE, AS THEY ARE THE OWNER'S OF THE LIFT PUMP STATION AND WILL CONTINUE TO PAY FOR THE STATION'S ELECTRIC CONSUMPTION.

CONSTRUCTION SEQUENCE

GENERAL SEQUENCE: THE GENERAL SEQUENCE APPLIES TO THE START OF ALL PHASES OF THE PROJECT. THE REQUIREMENTS IN SUCH SHALL BE APPLIED AS APPROPRIATE IN THAT PHASE AND SHALL BE ASSUMED IN PLACE PRIOR TO THE START OF THE WORK OUTLINED IN THE SEQUENCE FOR EACH PHASE.

1. PRIOR TO THE BEGINNING OF ANY SITE WORK THE MAJOR FEATURES OF THE CONSTRUCTION MUST BE FIELD STAKED BY A LICENSED SURVEYOR. THESE INCLUDE THE BUILDING, LIMITS OF DISTURBANCE, UTILITY LINES, AND STORMWATER PRACTICES.
2. PRIOR TO THE START OF THE PROJECT, AN ON-SITE PRE-CONSTRUCTION MEETING WILL BE HELD. THIS WILL BE ATTENDED BY THE PROJECT OWNER, THE OPERATOR RESPONSIBLE FOR COMPLYING WITH THE APPROVED CONSTRUCTION DRAWINGS INCLUDING THE EROSION AND SEDIMENT CONTROL (E&SC) PLAN AND DETAILS, THE DESIGN ENGINEER, THE ENGINEER RESPONSIBLE FOR E&SC MONITORING DURING CONSTRUCTION, TOWN REPRESENTATIVES FROM THE ENGINEERING DEPARTMENT AND CODE ENFORCEMENT, AND A REPRESENTATIVE FROM THE NYC DEP. THE DEP SHALL BE NOTIFIED 48 HRS PRIOR TO THE START OF THE MEETING.
3. CUT AND CLEAR TREES WITHIN THE PHASE LIMITS AS NECESSARY FOR THE AREAS TO BE DISTURBED. INSTALL TREE PROTECTIVE MEASURE AT MARKED LOCATIONS ON E&SC PLAN.
4. INSTALL ALL TEMPORARY EROSION CONTROL MEASURES AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN FOR THE PROJECT'S IMMEDIATE DISTURBANCE AREAS. THIS SHALL INCLUDE, BUT NOT LIMITED TO SILT FENCE, STABILIZED CONSTRUCTION ENTRANCES, CONSTRUCTION FENCE, ETC. THIS SEQUENCE MUST BE FOLLOWED TO INSURE PROPER IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN (E&SC) AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
5. TIMBERED TREES AND WOODCHIPS SHALL BE TEMPORARILY STORED IN THE STOCKPILE AND/OR STAGING AREA IF NECESSARY BEFORE BEING REMOVED OFF-SITE. WOODCHIPS MAY BE USED FOR MULCH TO STABILIZE DISTURBED AREAS. WOODCHIP MULCH SHALL BE APPLIED AT A MINIMUM RATE OF 500 LBS. PER 1000 SF (2" THICK MINIMUM).
6. REMOVE EXISTING VEGETATIVE COVER, CUT AND CLEAR TREES, GRUB, REMOVE STUMPS AND OTHER SURFACE FEATURES IN THE LIMIT OF CONSTRUCTION ONLY. ANY DISTURBANCE THAT RESULTS FROM TREE CLEARING AND GRUBBING SHALL BE IMMEDIATELY STABILIZED WITH WOODCHIPS MULCH, HYDRO-MULCH, OR STRAW AND SEED. TIMBERED TREES, WOOD CHIPS, AND STUMPS SHALL BE REMOVED OFF-SITE UNLESS OTHERWISE DIRECTED. AS STATED WOODCHIPS MAY BE STOCKPILED FOR USE AS STABILIZING GROUND COVER. THESE STOCKPILES SHALL BE SEPARATE FROM SOIL STOCKPILES. FDEMOLISH AND/OR REMOVE EXISTING FEATURES, I.E.: FENCE, CONCRETE SLAB, ASPHALT ETC., AND DISPOSE OF OR STOCKPILE AS REQUIRED BY THE OWNER. ALL CONSTRUCTION DEBRIS SHALL BE PROPERLY DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.

STANDARD SEQUENCE NOTES FOR BUILDING CONSTRUCTION

7. BEGIN ROUGH GRADING THE BUILDING PADS FOR THE BUILDINGS. BEGIN MOVING THE FILL TOWARDS THE LOCATION DESIGNATED FOR EACH PHASE. CUT AND FILL OF A CERTAIN PHASE SHALL MEET THE NEXT PHASE BOUNDARY AT A MAXIMUM SLOPE OF 2V:1H. FOR PREVIOUS PHASES WHERE GRADING IS COMPLETE MATCH TO FINISH GRADE ELEVATIONS. ALL COMPACTION REQUIREMENTS SHALL BE MET WITHIN THE FILL SECTIONS. (THIS WORK SHALL INCLUDE THE COMMENCEMENT OF THE RETAINING WALLS AROUND THE PROPOSED BUILDING CONSTRUCTION.) UPON COMPLETION OF THE GRADING, TEMPORARY SEED OR HYDRO-MULCH THE EMBANKMENT AND INSTALL EROSION CONTROL BLANKETS AS SHOWN ON THE PLANS ALONG THE NORTHERN PERIMETER OF THE FILL SECTION. DURING BUILDING AND SITE CONSTRUCTION, MAINTAIN AND RE-ESTABLISH AS REQUIRED, EROSION CONTROL AND STABILIZATION MEASURES AS REQUIRED BY THE SITE PLAN AND DETAILS. AREAS WHICH ARE TO REMAIN UNDISTURBED FOR MORE THAN SEVEN (7) DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING OR MULCH.
8. A LICENSED SURVEYOR MUST DEFINE THE BUILDING LOCATIONS.
9. INSTALL OR CHECK CONDITION OF ALL TEMPORARY EROSION CONTROL MEASURES AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN.
10. BEGIN PREPARATION OF THE BUILDING SITE AND EXCAVATION OF THE BUILDING FOUNDATION AS WELL AS CONSTRUCTION OF ALL RETAINING WALLS. AREAS IN WHICH FINAL GRADE IS ACHIEVED SHALL BE IMMEDIATELY STABILIZED WITH PERMANENT VEGETATIVE COVER. PERMANENT SLOPES OF 3:1 OR GREATER SHALL RECEIVE EROSION BLANKETS.
11. BEGIN CONSTRUCTION OF THE FOUNDATION. UPON COMPLETION AND AFTER PROPER CURING TIME IS ACHIEVED, BACKFILL THE FOUNDATION AND BRING SITE TO ROUGH GRADE. AREAS WHICH ARE TO REMAIN UNDISTURBED FOR MORE THAN SEVEN (7) DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING OR MULCH.

THE FOLLOWING IS THE GENERAL ORDER FOR CONSTRUCTION OF THE PROJECT AND MAY BE MODIFIED AFTER APPROVED BY THE SUPERVISING ENGINEER. THIS IS MEANT TO MINIMIZE THE AMOUNT OF OPEN DISTURBANCE. UNDER NO CIRCUMSTANCES SHALL MORE THAN FIVE (5) ACRES OR GREATER BE DISTURBED DURING THE SAME PERIOD OF TIME. IN THE EVENT GREATER DISTURBANCE IS NECESSARY OUTSIDE OF THE LIMIT OF DISTURBANCE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER OF RECORD, AND MUNICIPALITY FOR AN ON-SITE MEETING TO DISCUSS THE ALTERNATIVE APPROACH TO THE CONSTRUCTION.

1. THE SURVEYOR SHALL STAKE-OUT THE PROPOSED DRIVEWAY CENTERLINES AND THE LIMITS OF CUT AND FILL .
2. IMPLEMENT THE GENERAL SEQUENCE NOTES 1 THROUGH 6 WHERE APPLICABLE PRIOR TO CONTINUING.
3. ONCE THE TREE REMOVAL OPERATION IS COMPLETE STRIP THE TOPSOIL WITHIN THE WORK BOUNDARY AND PLACE EXCAVATED TOPSOIL WITHIN THE IDENTIFIED STOCKPILE LOCATIONS. ANY SOILS SO DEEMED BY THE DESIGN OR MONITORING ENGINEER SHALL BE STOCKPILED FOR FUTURE USE AS LANDSCAPED AREA TOPSOIL. CONTRACTOR SHALL TAKE EVERY PRECAUTION FEASIBLE TO REDUCE THE AMOUNT OF DISTURBED/EXPOSED SOILS DURING CONSTRUCTION.
4. ANY DISTURBED AREA THAT WILL NOT BE FURTHER DISTURBED WITHIN SEVEN (7) DAYS SHALL BE IMMEDIATELY STABILIZED WITH WOODCHIPS, HYDRO-MULCH, OR STRAW AND SEED.
5. PRIOR TO STARTING THE WORK INSTALL ALL EROSION AND SEDIMENT CONTROLS INCLUDING THE INSTALLATION OF THE STABILIZED CONSTRUCTION ENTRANCE.
6. BEGIN ROUGH GRADING OF DRIVEWAYS WITHIN WORK LIMITS AND ADJACENT AREAS. SLOPES IN EXCESS OF 3H:1V SHALL NOT BE LEFT EXPOSED AND MUST BE STABILIZED.
7. BEGIN EXCAVATION OF THE BUILDING FOUNDATION FOR THE BUILDING AND ADJACENT AREAS.

REFER TO NOTES 7 THROUGH 12 UNDER THE GENERAL SEQUENCE.

8. CUT MATERIAL SHALL FIRST BE MOVED TO THE FILL LOCATIONS REQUIRED TO COMPLETE THE ACCESS DRIVE AND STAGING AREA AND BRING THE AREA UP TO FINAL GRADES. BLASTED ROCK THAT IS NOT SUITABLE TO REMAIN ON SITE SHALL BE HAULED AWAY AND PROPERLY DISPOSED OF. AN AREA HAS BEEN PROVIDED FOR THE STOCKPILING OF REMOVED SOIL AND ROCK WHICH IS TO BE REMOVED FROM THE SITE AS WELL AS A CUEING AREA FOR TRUCKS AWAITING LOADING.
9. PROCEED WITH THE CONSTRUCTION OF THE BUILDINGS. THIS INCLUDES THE BUILDING STRUCTURE ITSELF, RETAINING WALLS, AND ROUGH GRADES. AT ANY POINT DURING THIS BEGIN INSTALLATION OF THE UTILITIES INCLUDING THE WATER AND SEWER CONNECTIONS, DRAINAGE AND POWER UTILITIES.
10. STAKE-OUT THE LOCATION OF UTILITIES AND UTILITY STRUCTURES WITHIN THIS PHASE. BEGIN INSTALLATION OF SUBSURFACE INFILTRATION AND DETENTION CHAMBERS.
12. BACKFILL AS INSTALLATION IS COMPLETE AND STABILIZE THE AREA. IF TRENCHES ARE TO BE LEFT OPEN, PLACE EXCAVATED MATERIAL ON THE UP-SLOPE SIDES OF THE TRENCH AND PROTECT AND STABILIZE IF IT IS TO REMAIN OPEN FOR AN EXTENDED PERIOD OF SEVEN (7) DAYS OR MORE.
13. UPON COMPLETION OF THE SUBSURFACE CHAMBERS, BEGIN INSTALLATION OF PROPOSED BYPASS, DOWNSTREAM DEFENDER UNIT, AND OUTLET STRUCTURES. INSTALL STORM SEWER PIPING, CATCH BASINS AND MANHOLES, WORKING DOWNSTREAM TO UPSTREAM. THE UPSTREAM DRAINAGE STRUCTURE SHALL BE BLOCKED SO AS TO NOT ALLOW SEDIMENT LADEN WATER FROM REACHING THE SUBSURFACE CHAMBERS. THE INSTALLATION OF CATCH BASIN 11 AND THE PIPE CROSSING FRONT STREET SHALL BE INSTALL BACKFILLING AND TOPPED WITH ASPHALT IN ONE DAY AS TO PREVENT THE ROAD FROM BEING DISTURBED AND ALLOWING SEDIMENT LADEN RUNOFF FROM ENTERING THE TOWN SEWER SYSTEM.
14. DURING THE INSTALLATION OF CATCH BASINS, INSTALL INLET PROTECTION AS PER E&SC PLAN TO ASSURE THAT SEDIMENT LADEN WATER WILL NOT ENTER THE STORM SYSTEM. ONCE THE FINAL GRADE ABOVE THE SYSTEM IS ACHIEVED, PUT INTO PLACE THE FINAL TOPSOIL COVER, SEED MIX, AND EROSION CONTROL BLANKET, OR HYDRO-MULCH. REFER TO THE LANDSCAPE PLAN FOR THE SEED MIX REQUIREMENTS.
15. ONCE THE INFILTRATOR SYSTEM HAS BEEN INSTALLED, GRADE AND INSTALL THE BASE COURSE FOR THE DRIVEWAYS AND PARKING AREAS.

NOTE: NO STORMWATER IS PERMITTED TO ENTER THE INFILTRATION SYSTEM FROM THE UPSTREAM CONVEYANCE SYSTEM AND SHALL BE BLOCKED UNTIL THE COMPLETION AND STABILIZATION OF ALL PHASES TRIBUTARY TO THE BASIN. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 80% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.

16. COMPLETE CONSTRUCTION OF THE BUILDINGS AND REMAINING RETAINING WALLS.
17. STAKE OUT AND INSTALL CURBING AS PER PLAN. ONCE CURBING IS COMPLETED AROUND CATCH BASINS, RE-INSTALL INLET PROTECTION WITHIN CATCH BASINS. AS CURBING IS COMPLETE, BACKFILL WITH TOPSOIL. AREAS THAT ARE FILLED WITH TOPSOIL ARE TO BE RAKED, SEEDED, AND HAY MULCHED.
18. UPON COMPLETION OF THE MAJORITY OF THE INFRASTRUCTURE, INSTALL PAVEMENT BINDER COURSE TO THE THICKNESS AND ELEVATION AS PER THE CONSTRUCTION PLANS.
19. AS WORK IS AT THE COMPLETION STAGE INSTALL FINAL ASPHALT SURFACE AND POROUS PAVERS IN THE LOCATIONS SHOWN.
20. INSTALL HARDSCAPE SUCH AS PATIOS, WALKS STEPS ETC., AND FINAL VEGETATION INCLUDING SOD AND LANDSCAPING. REFER TO LANDSCAPE PLANS FOR LOCATION AND IDENTIFICATION OF GROUND COVER AND PLANTINGS. CLEAR SITE OF DEBRIS AND ALL UNWANTED MATERIALS. DISPOSAL SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.
21. DURING THE FINAL PHASE OF BUILDING CONSTRUCTION, FINISH GRADE, TOPSOIL, RAKE, AND SEED ALL AREAS AS REQUIRED. WHERE REQUIRED OR RECOMMENDED, HYDRO-MULCH OR INSTALL EROSION CONTROL BLANKETS.
22. UPON COMPLETION OF THIS PHASE, THE CONTRACTOR SHALL BE REQUIRED TO STABILIZE DISTURBED SOILS IN THE EVENT THE DISTURBED AREA WILL REMAIN NOT WORKED FOR GREATER THAN SEVEN (7) DAYS, AT THE DIRECTION OF THE ENGINEER OF RECORD OR PERMITTING ENTITY INSPECTOR, AND WHEN SIGNIFICANT PRECIPITATION IS IN THE IMMEDIATE FORECAST. ALL DISTURBED AREAS SHALL BE TEMPORARILY STABILIZED WITH HYDRO-MULCH OR WHERE APPROPRIATE WOODCHIPS. IT IS RECOMMENDED THAT ANY GRADING THAT IS AT THE FINISH STAGE WILL RECEIVE NO FURTHER DISTURBANCE AND THAT PERMANENT STABILIZATION SUCH AS TOPSOIL, SEED, MULCHING OR BLANKETS AS PER THE PLAN BE INSTALLED. **THE NEXT PHASE CANNOT COMMENCE UNTIL THESE STEPS HAVE BEEN COMPLETED.**

FINAL SITE STABILIZATION AND COMPLETION OF NEW CONSTRUCTION:

23. UPON COMPLETION OF ALL PHASES, THE SITE SHALL BE INSPECTED BY THE SUPERVISING ENGINEER AND TOWN INSPECTOR TO DETERMINE COMPLETION OF ALL WORK AND PERMANENT STABILIZATION OF THE SITE.
24. ANY AREAS DEEMED INCOMPLETE OR NOT PROPERLY STABILIZED SHALL BE DONE SO TO THE SATISFACTION TO THE SUPERVISING ENGINEER AND TOWN INSPECTOR.
25. ONCE THE SITE IS DEEMED ADEQUATELY STABLE THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES CAN BE REMOVED. AT THAT TIME IF DEEMED APPROPRIATE DRAINAGE STRUCTURES UPSTREAM FROM THE SUBSURFACE STORMWATER MANAGEMENT SYSTEMS SHALL BE CLEANED OF SEDIMENT AND DEBRIS. THEY CAN THEN BE UNBLOCKED TO ALLOW FOR FLOW OF COLLECTED SURFACE RUNOFF.

CONTACT INFORMATION DURING AND AFTER CONSTRUCTION:

GEORGE ROBERTA
224 MCLEAN STREET
MOUNT KISCO, NY 10549

MAINTENANCE OF TEMPORARY EROSION AND SEDIMENT CONTROL STRUCTURES:

N.Y.S.D.E.C. GP-0-15-002 EXPOSURE RESTRICTIONS - STATES THAT ANY EXPOSED EARTHWORK SHALL BE STABILIZED IN ACCORDANCE WITH THE GUIDELINES OF THIS PLAN.

1. TREES AND VEGETATION SHALL BE PROTECTED AT ALL TIMES AS SHOWN ON THE DETAIL DRAWING AND AS DIRECTED BY THE ENGINEER.
2. CARE SHOULD BE TAKEN SO AS NOT TO CHANNEL CONCENTRATED RUNOFF THROUGH THE AREAS OF CONSTRUCTION ACTIVITY ON THE SITE.
3. FILL AND SITE DISTURBANCES SHOULD NOT BE CREATED WHICH CAUSES WATER TO POND OFF SITE OR ON ADJACENT PROPERTIES.
4. RUNOFF FROM LAND DISTURBANCES SHALL NOT BE DISCHARGED OR HAVE THE POTENTIAL TO DISCHARGE OFF SITE WITHOUT FIRST BEING INTERCEPTED BY A CONTROL STRUCTURE, SUCH AS A SEDIMENT TRAP OR SILT FENCE. SEDIMENT SHALL BE REMOVED BEFORE EXCEEDING 50% OF THE RETENTION STRUCTURE'S CAPACITY.
5. FOR FINISHED GRADING, ADEQUATE GRADE SHALL BE PROVIDED SO THAT WATER WILL NOT POND ON LAWNS FOR MORE THAN 24 HOURS AFTER RAINFALL, EXCEPT IN SWALE FLOW AREAS WHICH MAY DRAIN FOR AS LONG AS 48 HOURS AFTER RAINFALL.
6. ALL SWALES AND OTHER AREAS OF CONCENTRATED FLOW SHALL BE PROPERLY STABILIZED WITH TEMPORARY CONTROL MEASURES TO PREVENT EROSION AND SEDIMENT TRAVEL. SURFACE FLOWS OVER CUT AND FILL AREAS SHALL BE STABILIZED AT ALL TIMES.
7. ALL SITES SHALL BE STABILIZED WITH EROSION CONTROL MATERIALS WITHIN 7 DAYS OF FINAL GRADING.
8. TEMPORARY SEDIMENT TRAPPING DEVICES SHALL BE REMOVED FROM THE SITE WITHIN 30 DAYS OF FINAL STABILIZATION.

MAINTENANCE OF PERMANENT CONTROL STRUCTURES DURING CONSTRUCTION:

THE STORMWATER MANAGEMENT SYSTEM AND OUTLET STRUCTURE SHALL BE INSPECTED ON A REGULAR BASIS AND AFTER EVERY RAINFALL EVENT. SEDIMENT BUILD UP SHALL BE REMOVED FROM THE INLET PROTECTION REGULARLY TO INSURE DETENTION CAPACITY AND PROPER DRAINAGE. OUTLET STRUCTURE SHALL BE FREE OF OBSTRUCTIONS. ALL PIPING AND DRAIN INLETS SHALL BE FREE OF OBSTRUCTION. ANY SEDIMENT BUILD UP SHALL BE REMOVED.

MAINTENANCE OF CONTROLS AFTER CONSTRUCTION:

CONTROLS (INCLUDING RESPECTIVE OUTLET STRUCTURES) SHOULD BE INSPECTED PERIODICALLY FOR THE FIRST FEW MONTHS AFTER CONSTRUCTION AND ON AN ANNUAL BASIS THEREAFTER. THEY SHOULD ALSO BE INSPECTED AFTER MAJOR STORM EVENTS.

DEBRIS AND LITTER REMOVAL:

TWICE A YEAR, INSPECT OUTLET STRUCTURE AND DRAIN INLETS FOR ACCUMULATED DEBRIS. ALSO, REMOVE ANY ACCUMULATIONS DURING EACH MOWING OPERATION.

STRUCTURAL REPAIR/REPLACEMENT:

OUTLET STRUCTURE MUST BE INSPECTED TWICE A YEAR FOR EVIDENCE OF STRUCTURAL DAMAGE AND REPAIRED IMMEDIATELY.

EROSION CONTROL:

UNSTABLE AREAS TRIBUTARY TO THE BASIN SHALL IMMEDIATELY BE STABILIZED WITH VEGETATION OR OTHER APPROPRIATE EROSION CONTROL MEASURES.

SEDIMENT REMOVAL:

SEDIMENT SHOULD BE REMOVED AFTER IT HAS REACHED A MAXIMUM DEPTH OF FIVE INCHES ABOVE THE STORMWATER MANAGEMENT SYSTEM FLOOR.

TOPSOIL:

EXISTING TOPSOIL WILL BE REMOVED AND STORED IN PILES SUFFICIENTLY AS TO AVOID MIXING WITH OTHER EXCAVATION. STOCKPILES SHALL BE SURROUNDED BY EROSION CONTROL AS OUTLINED ON THESE PLANS. THE FURNISHING OF NEW TOPSOIL SHALL BE OF A BETTER OR EQUAL TO THE FOLLOWING CRITERIA (SS713.01 NYSDOT):

1. THE PH OF THE MATERIAL SHALL BE 5.5 TO 7.6.
2. THE ORGANIC CONTENT SHALL NOT BE LESS THAN 2% OR MORE THAN 70%.
3. GRADATION:

SIEVE SIZE	% PASSING BY WGT.
2 INCH	100
1 INCH	85 TO 100
1/4 INCH	65 TO 100
NO. 200 MESH	20 TO 80

PERMANENT VEGETATIVE COVER:

1. SITE PREPARATION:
   - 1.1. INSTALL EROSION CONTROL MEASURES.
   - 1.2. SCARIFY COMPACTED SOIL AREAS.
   - 1.3. LIME AS REQUIRED TO PH 6.5.
   - 1.4. FERTILIZE WITH 10-6-4 4 LBS/1,000 S.F.
   - 1.5. INCORPORATE AMENDMENTS INTO SOIL WITH DISC HARROW.
2. SEED MIXTURES FOR USE ON SWALES AND CUT AND FILL AREAS.

MIXTURE		LBS./ACRE
ALT. A	KENTUCKY BLUE GRASS	20
	CREEPING RED FESCUE	28
	RYE GRASS OR REDTOP	5
ALT. B	CREEPING RED FESCUE	20
	REDTOP	2
	TALL FESCUE/SMOOTH BLOOMGRASS	20

3. SEEDING
   - 3.1. PREPARE SEED BED BY RAKING TO REMOVE STONES, TWIGS, ROOTS AND OTHER FOREIGN MATERIAL.
   - 3.2. APPLY SOIL AMENDMENTS AND INTEGRATE INTO SOIL.
   - 3.3. APPLY SEED UNIFORMLY BY CYCLONE SEEDER CULTI-PACKER OR HYDRO-SEEDER AT RATE INDICATED.
   - 3.4. STABILIZE SEEDED AREAS IN DRAINAGE SWALES.
   - 3.5. IRRIGATE TO FULLY SATURATE SOIL LAYER, BUT NOT TO DISLODGE PLANTING SOIL.
   - 3.6. SEED BETWEEN APRIL 1ST AND MAY 15TH OR AUGUST 15TH AND OCTOBER 15TH.
   - 3.7. Seeding may occur May 15th and August 15th if adequate irrigation is provided.

TEMPORARY VEGETATIVE COVER:

SITE PREPARATION:

1. INSTALL EROSION CONTROL MEASURES.
2. SCARIFY AREAS OF COMPACTED SOIL.
3. FERTILIZE WITH 10-10-10 AT 400/ACRE.
4. LIME AS REQUIRED TO PH 6.5.

SEED SPECIES:

MIXTURE	LBS./ACRE
RAPIDLY GERMINATING ANNUAL RYEGRASS (OR APPROVED EQUAL)	20
PERENNIAL RYEGRASS	20
CEREAL OATS	36

SEEDING:
SAME AS PERMANENT VEGETATIVE COVER

TEMPORARY MAINTENANCE SCHEDULE:

	DAILY	WEEKLY	MONTHLY	AFTER RAINFALL	NECESSARY TO MAINTAIN FUNCTION	AFTER APPROVAL OF INSPECTOR
SILT FENCE	– – –	– – – –	INSP.	INSP.	CLEAN OF SEDIMENT/ REPLACE IF NEEDED	REMOVE
STABILIZED CONST. ENT.	CLEAN OF SEDIMENT	INSP.	– – – –	– – – –	REPLACE	REMOVE
SOIL STOCKPILE	– – –	INSP.	INSP.	INSP.	SEED AS NECESSARY	REMOVE
OUTLET/ INLET STRUCTURES & PROTECTION	– – –	INSP.	INSP.	INSP.	CLEAN OF SEDIMENT/ REPLACE IF NEEDED	REMOVE

GENERAL EROSION CONTROL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL SEDIMENT AND EROSION CONTROL PRACTICES. THE SEDIMENT AND EROSION CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCES, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED. ROAD SURFACE FLOWS FROM THE SITE SHOULD BE DISSIPATED WITH TRACKING PAD OR APPROPRIATE MEASURES DURING ADJACENT ROAD SHOULDER REGRADING. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL DEVICES THROUGHOUT THE COURSE OF CONSTRUCTION.
2. CATCH BASIN INLET PROTECTION MUST BE INSTALLED AND OPERATING AT ALL TIMES UNTIL TRIBUTARY AREAS HAVE BEEN STABILIZED. WHEN POSSIBLE FLOWS SHOULD BE STABILIZED BEFORE REACHING INLET PROTECTION STRUCTURE. TIMELY MAINTENANCE OF SEDIMENT CONTROL STRUCTURES IS THE RESPONSIBILITY OF THE CONTRACTOR.
3. ALL STRUCTURES SHALL BE MAINTAINED IN GOOD WORKING ORDER AT ALL TIMES. THE SEDIMENT LEVEL IN ALL SEDIMENT TRAPS SHALL BE CLOSELY MONITORED AND SEDIMENT REMOVED PROMPTLY WHEN MAXIMUM LEVELS ARE REACHED OR AS ORDERED BY THE ENGINEER. ALL SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED ON A REGULAR BASIS, AND AFTER EACH HEAVY RAIN TO INSURE PROPER OPERATION AS DESIGNED. AN INSPECTION SCHEDULE SHALL BE SET FORTH PRIOR TO THE START OF CONSTRUCTION.
4. THE LOCATIONS AND THE INSTALLATION TIMES OF THE SEDIMENT CAPTURING STANDARDS SHALL BE AS SPECIFIED IN THESE PLANS, AS ORDERED BY THE ENGINEER, AND IN ACCORDANCE WITH THE LATEST EDITION OF THE "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" (NYSSESC).
5. ALL TOPSOIL SHALL BE PLACED IN A STABILIZED STOCKPILE FOR REUSE ON THE SITE. ALL STOCKPILE MATERIAL REQUIRED FOR FINAL GRADING AND STORED ON SITE SHALL BE TEMPORARILY SEEDED AND MULCHED WITHIN 7 DAYS. REFER TO SOIL STOCKPILE DETAILS.
6. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 7 DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, SHALL IMMEDIATELY RECEIVE TEMPORARY SEEDING. MULCH SHALL BE USED IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER. DISTURBED AREAS SHALL NOT BE LIMED AND FERTILIZED PRIOR TO TEMPORARY SEEDING.
7. ALL DISTURBED AREAS WITHIN 500 FEET OF AN INHABITED DWELLING SHALL BE WETTED AS NECESSARY TO PROVIDE DUST CONTROL.
8. THE CONTRACTOR SHALL KEEP THE ROADWAYS WITHIN THE PROJECT CLEAR OF SOIL AND DEBRIS AND IS RESPONSIBLE FOR ANY STREET CLEANING NECESSARY DURING THE COURSE OF THE PROJECT.
9. SEDIMENT AND EROSION CONTROL STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED BY PERMANENT MEASURES.
10. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH CURRENT EDITION OF NYSSESC.
11. ALL REGRADED AREAS MUST BE STABILIZED APPROPRIATELY PRIOR TO ANY ROCK BLASTING, CUTTING, AND/OR FILLING OF SOILS. SPECIAL CARE SHOULD BE TAKEN DURING CONSTRUCTION TO INSURE STABILITY DURING MAINTENANCE AND INTEGRITY OF CONTROL STRUCTURES.
12. ANY SLOPES GRADED AT 3:1 OR GREATER SHALL BE STABILIZED WITH EROSION BLANKETS TO BE STAKED INTO PLACE IN ACCORDANCE WITH THE MANUFACTURES REQUIREMENTS. EROSION BLANKETS MAY ALSO BE REQUIRED AT THE DISCRETION OF TOWN OFFICIALS OR PROJECT ENGINEER. WHEN STABILIZED BLANKET IS UTILIZED FOR CHANNEL STABILIZATION, PLACE ALL OF THE VOLUME OF SEED MIX PRIOR TO LAYING NET, OR AS RECOMMENDED BY THE MANUFACTURER.
13. TO PREVENT HEAVY CONSTRUCTION EQUIPMENT AND TRUCKS FROM TRACKING SOIL OFF-SITE, CONSTRUCT A PERVIOUS CRUSHED STONE PAD. LOCATE AND CONSTRUCT PADS AS DETAILED IN THESE PLANS.
14. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED SOIL AREAS PERIODICALLY WITH WATER AS REQUIRED. CONTRACTOR TO SUPPLY ALL EQUIPMENT AND WATER.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION INSPECTIONS AS PER NYSDEC GP-0-15-002 AND TOWN OF YORKTOWN CODE.

OWNER / OPERATOR CERTIFICATION

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. Further, I hereby certify that the SWPPP meets all Federal, State, and local erosion and sediment control requirements. I am aware that false statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law."

Name (please print): _____

Title: _____

Date: _____

Address: _____

Phone: _____

E-mail: _____

Signature: _____

CONTRACTOR CERTIFICATION STATEMENT

Certification Statement - All contractors and subcontractors as identified in a SWPPP, by the Owner or Operator, in accordance with Part III.A.5 of the SPDES General Permit for Stormwater Runoff from Construction Activity, GP-0-15-002, dated January 12, 2015, Page 10 of 40, shall sign a copy of the following Certification Statement before undertaking any construction activity at the Site identified in the SWPPP:

"I hereby certify that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the Qualified Inspector during a site inspection. I also understand that the Owner or Operator must comply with the terms and conditions of the New York State Pollutant Discharge Elimination System ("SPDES") General Permit for Stormwater Discharge from Construction Activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings."

Individual Contractor: _____

Name and Title (please print): _____

Signature of Contractor: _____

Company / Contracting Firm: _____

Name of Company: _____

Address of Company: _____

Telephone Number / Cell Number: _____

Site Information: _____

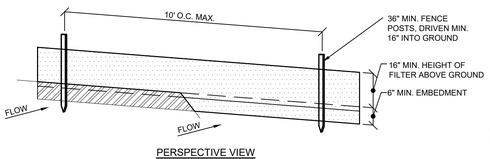
Address of Site: _____

_____

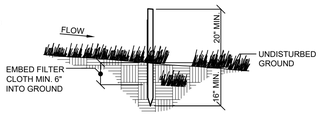
Today's Date: _____

GENERAL NOTES:

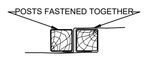
1. THE ENGINEER WHOSE SEAL APPEARS HEREON HAS NOT BEEN RETAINED FOR SUPERVISION OF CONSTRUCTION, SUBSEQUENTLY,HE IS NOT RESPONSIBLE FOR CONSTRUCTION AND THEREFORE ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION PRACTICES, PROCEDURES, AND RESULTS THEREFROM.
2. THE ENGINEER SHALL NOT BE HELD RESPONSIBLE OR HELD ACCOUNTABLE FOR THE INTEGRITY OF ANY STRUCTURES CONSTRUCTED OR UNDER CONSTRUCTION PRIOR TO THE APPROVAL OF THE PLANS.
3. THE TOWN ENGINEER'S OFFICE AND WATER DISTRICT OFFICE IS TO BE NOTIFIED 24 HOURS BEFORE COMMENCING SITE CONST



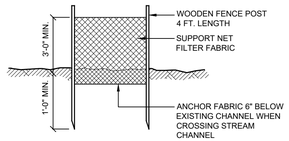
PERSPECTIVE VIEW



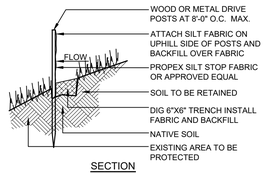
SECTION



PLAN VIEW: JOINING SECTIONS



ELEVATION



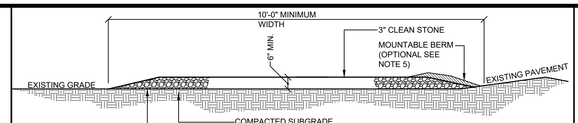
SECTION

SYMBOL

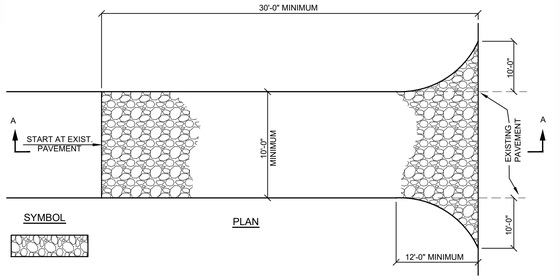
NOTES:
1. Filter cloth to be fastened securely to post: steel either t or u type or 2" hardwood posts at top and mid section.
2. When two sections of filter cloth adjoin each other they shall be overlapped by 6 inches and folded. Filter cloth shall be mirafi 100x, stabilinka t140n or approved equal
3. Maintenance shall be performed as needed and material removed when "bulges" develop in the silt fence.
4. Excavate 4 inch trench along the lower perimeter of the site.
5. Unroll a section at a time and position the post against the back (downstream) wall of the trench (net side away from direction of flow).
6. Drive the post into the ground until the netting is approximately 2 inches from the trench bottom.
7. 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.
8. Join sections as shown above.

E-1 SILT FENCE DETAIL

NOT TO SCALE



SECTION A-A



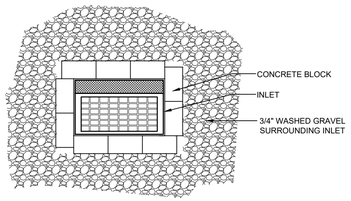
SYMBOL

PLAN

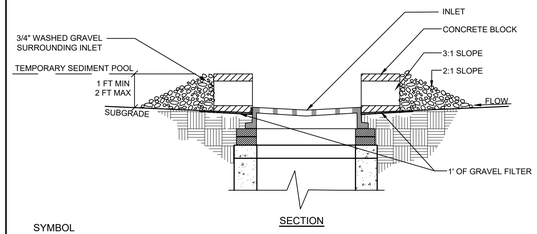
INSTALLATION NOTES:
1. Stone size - use 3" min. Stone, or reclaimed or recycled concrete equivalent.
2. Length - as required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply.
3. Thickness - not less than six (6) inches.
4. Width - 10 foot minimum, but not less than the full width at points where ingress or egress occur. 24 ft if single entrance to site.
5. Surface water - all surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
6. Maintenance - the entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right of way this may require periodic top dressing with additional stone as conditions demand and repair and/or cleanouts of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public right of way must be removed immediately.
7. 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.
8. Periodic inspection and needed maintenance shall be provided after each rain

E-2 STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE



PLAN

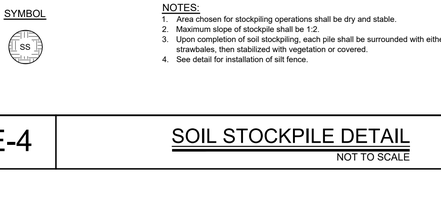


SECTION

SYMBOL

E-3 STONE AND BLOCK INLET PROTECTION DETAIL

NOT TO SCALE



SYMBOL

SS

NOTES:
1. Area chosen for stockpiling operations shall be dry and stable.
2. Maximum slope of stockpile shall be 1:2.
3. Upon completion of soil stockpiling, each pile shall be surrounded with either silt fencing or strawbales, then stabilized with vegetation or covered.
4. See detail for installation of silt fence.

E-4 SOIL STOCKPILE DETAIL

NOT TO SCALE

Site Design Consultants
Civil Engineers • Land Planners
251-F Underhill Avenue, Yorktown Heights, NY 10598
(914) 962-4488 - Fax: (914) 962-7386
www.sitedesignconsultants.com

PROJECT # 25-33

Engineer: Joseph C. Rina, P.E. NYS Lic. No. 64431

Revisions:

No.	Date	Comments:
1	10/1/25	RWA Comments
2	3/03/26	SWPPP Update
3	4/13/26	Plan Update
4	4/26/26	Plan Update

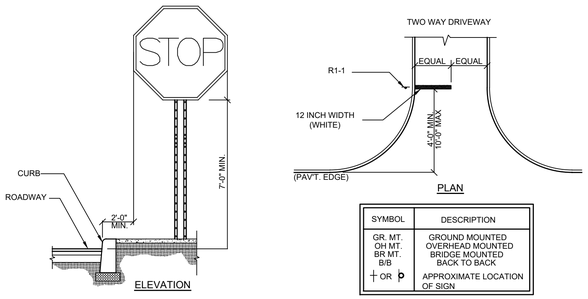
SCALE: NTS
DRAWN BY: JCR
DATE: 8/25/25

E&SC DETAILS

AMENDED SITE PLAN
PREPARED FOR
TANTO IRRIGATION, LLC.
FRONT STREET
Town of Yorktown Westchester County, NY

Sheet 8 of 13

F:\2025\25-33 TANTO IRRIGATION\GUILLARD\- N. PAYNE ST. ELMSFORD\ENGINEERING\CAD\C3D-25-33 TANTO IRRIGATION N PAYNE ST ELMSFORD.DWG\25- TANTO IRRIG DETAILS 4-09-26.DWG



ELEVATION

PLAN

SYMBOL	DESCRIPTION
GR. MT. OH MT. BR MT. B/B	GROUND MOUNTED OVERHEAD MOUNTED BRIDGE MOUNTED BACK TO BACK
┼ OR ⚲	APPROXIMATE LOCATION OF SIGN

TYPICAL INSTALLATION GUIDELINES

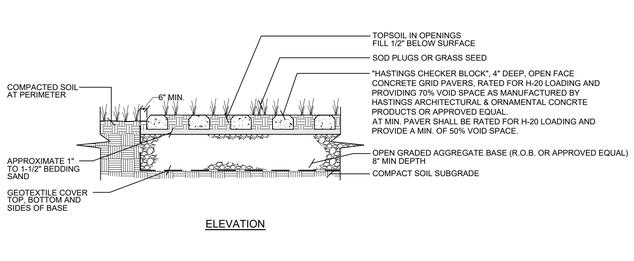
SIGN	M.U.T.C.D. NUMBER	SIZE OF SIGN	TYPE OF MOUNT
STOP	R1-1	18" X 18"	GR. MT.
ONE WAY	R3-12 (L) R3-13 (R)	12" X 18"	GR. MT.
DO NOT ENTER	R3-15	24" X 24"	GR. MT.

SIGN	M.U.T.C.D. NUMBER	SIZE OF SIGN	TYPE OF MOUNT
NO PARKING ANY TIME	P1-2 (SEE NOTE 4)	12" X 18"	GR. MT.
RESERVED PARKING	R7-8	12" X 18"	GR. MT.

GENERAL NOTES:

1. All signage shall be in accordance with the latest edition of the national MUTCD and the N.Y.S Supplement (MUTCD), September 2007, including the following:
   A. Letter size and series
   B. Legend and background color
   C. Reflectivity
   D. Size of sign
2. The type of characters as specified in the standard specifications shall be as follows:
   MUTCD CODE LETTER — TYPE OF CHARACTER
   G.I. — TYPE IV
   R.P.W.M. — TYPE IV OR V.
3. Sign locations as shown on plans are approximate. The Contractor shall relocate existing signs and install new signs in accordance with the MUTCD, latest edition. The Contractor shall contact the Town Engineer to discuss/resolve problem areas.
4. Except where otherwise specified, parking signs shall be placed facing approaching traffic at an angle of between 30 and 45 degrees with the line of traffic flow. Parking signs shall be placed at each end of a regulation (single-headed arrows) and, within the regulation (double-headed arrows), at intervals not to exceed 200 ft
5. Where new signs are installed the Contractor shall affix a label to the back of the sign panel. This label will show the date of installation and identification numbers.
6. Placement of W3-17 sign is prescribed in the General Municipal Law.

R-1 TRAFFIC SIGN DETAIL
NOT TO SCALE



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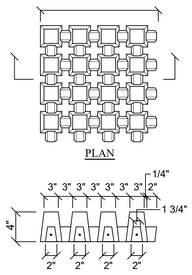
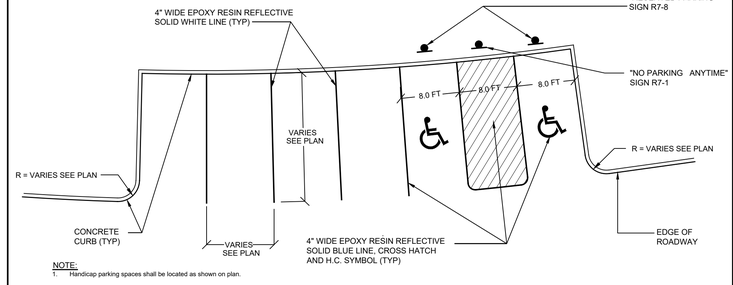


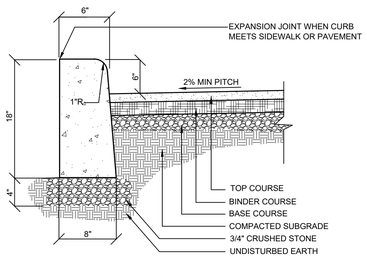
SECTION

R-2 POROUS PAVERS
NOT TO SCALE



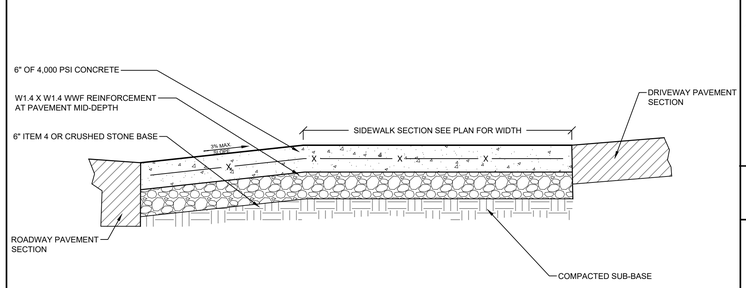
NOTE:
1. Handicap parking spaces shall be located as shown on plan.

R-3 TYPICAL PARKING STALL LAYOUT
NOT TO SCALE

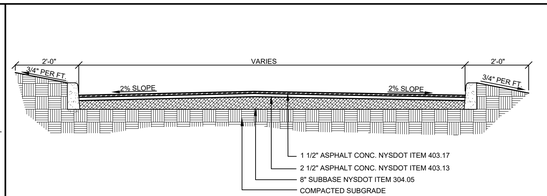


NOTE:
1. Provide 1/2" expansion joint in concrete curb every ten feet.
2. Construct curb with class A concrete (3000 psi).

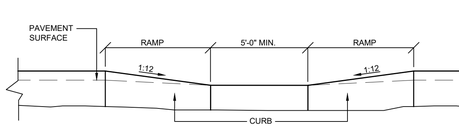
R-4 CONCRETE CURB DETAIL
NOT TO SCALE



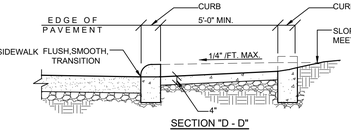
R-5 TYPICAL REINFORCED DRIVEWAY APRON SECTION
NOT TO SCALE



R-6 TYPICAL DRIVEWAY AND PARKING LOT SECTION
NOT TO SCALE



SECTION "C - C"



SECTION "D - D"

NOTES:

GENERAL:
1. Sidewalk curb ramp type and location are as shown on the plans or as directed.
2. All sidewalk curb ramp types may be used as straight or curved curb sections.
3. Sidewalk curb ramp types may be different at each location within an intersection.

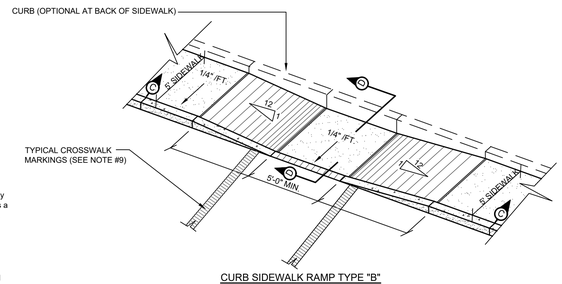
SIDEWALK CURB RAMP CRITERIA:
4. The maximum slope of a sidewalk curb ramp shall be 1:12.
5. The maximum width of a sidewalk curb ramp shall be five feet. Exclusive of flared sides.
6. All sidewalk curb ramps shall have flush, smooth transitions to the adjacent street or highway surface.

SURFACE FINISH:
7. The surface of all sidewalk curb ramps shall be stable, firm, and slip resistant (E.G. A coarse broom finish perpendicular to the ramp slope is acceptable on cement concrete curb ramps.)
8. All proposed sidewalk curb ramps shall have a detectable warning surface installed from the back of the curb for a distance of 2 feet in the direction of travel on the ramp and extending the full width of the ramp, excluding the ramp sides or flares. The detectable warning surface shall comply with the requirements of section 4.29.2 of the Americans with Disabilities Act accessibility guidelines (ADAAG).

SIDEWALK CURB RAMP PLACEMENT:
9. At a corner, where the curb radius is 25-feet or less, a single ramp (either type a or b) located diagonally can often serve crosswalks in two directions. However, a single ramp shall only be used where there is a minimum clear space of 48" falling entirely within the projection of the intersection curbs (see figure 1). Where the radius exceeds 25' or the minimum 48" clear space is not achievable, then separate ramps should be provided for each crosswalk.

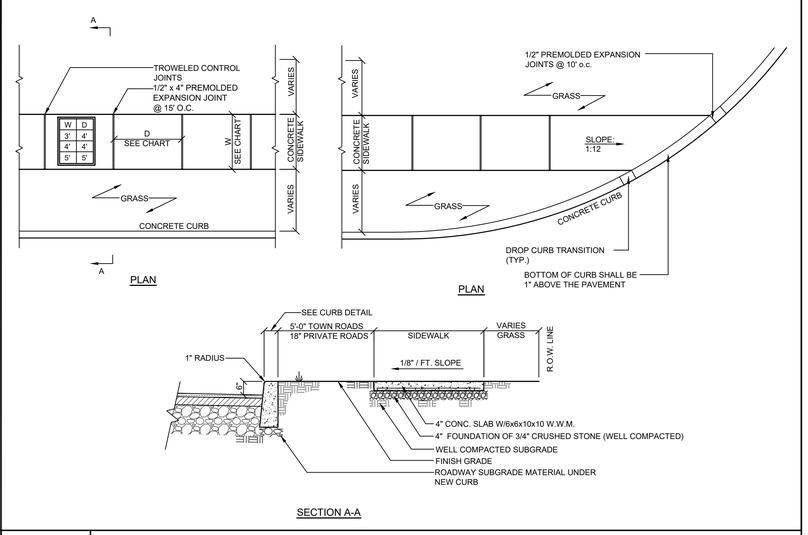
PAVEMENT MARKINGS AT CROSSWALKS:
10. Sidewalk curb ramps at marked crossings shall be wholly contained within the markings excluding any flared sides.
11. At a corner where a single ramp (either type a or b; located diagonally serves two crosswalks, this shall be a 48" minimum clear space at the ramp bottom wholly contained within the intersection crosswalk markings.
12. Where stop lines are necessary, they shall be located in advance of sidewalk curb ramps.

UTILITIES - DRAINAGE INLETS OR GRATES:
13. Where feasible, provide for drainage inlets or grates immediately upstream from the curb ramps. Reticuline or rectangular drainage grates are to be used in the area of curb ramps.
14. Do not place signal poles, sign posts, utility poles, fire hydrants, etc., within the ramp or side flare areas.



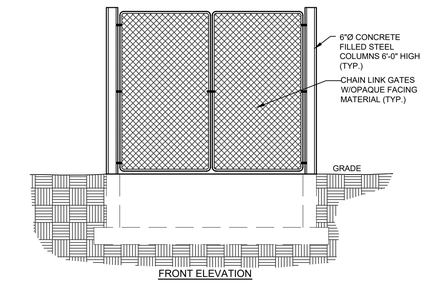
CURB SIDEWALK RAMP TYPE "B"

R-7 SIDEWALK CURB-RAMP DETAIL
NOT TO SCALE

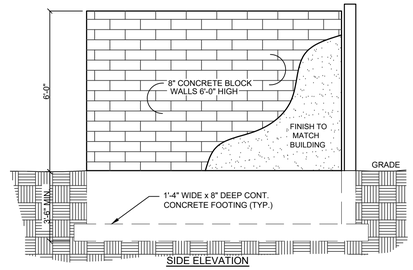


SECTION A-A

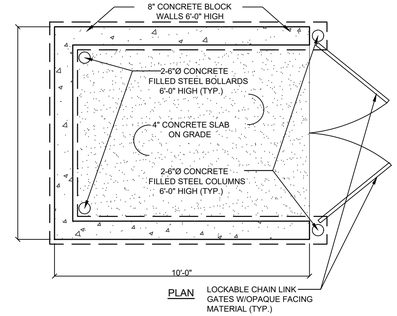
R-8 CONCRETE SIDEWALK DETAIL
NOT TO SCALE



FRONT ELEVATION



SIDE ELEVATION



PLAN

F-1 TRASH ENCLOSURE
NOT TO SCALE

Site Design Consultants
Civil Engineers • Land Planners
251-F Underhill Avenue, Yorktown Heights, NY 10598
(914) 962-4488 - Fax: (914) 962-7386
www.sitedesignconsultants.com

PROJECT # 25-33

Engineer: Joseph C. Riina, P.E. N.Y.S Lic. No. 64431

Revisions:

No.	Date	Comments:
1	10/1/25	Plan Update
2	3/03/26	SWPPP Update
3	4/13/26	Plan Update
4	4/26/26	Plan Update

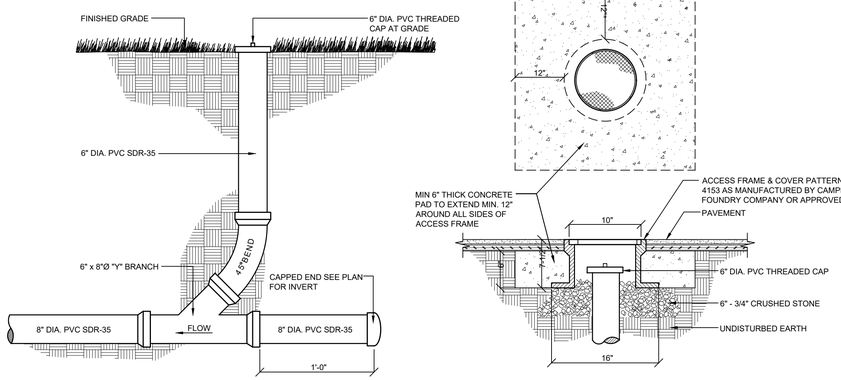
SCALE: N.T.S
DRAWN BY: JCR
DATE: 8/25/25

SITE DETAILS

AMENDED SITE PLAN
PREPARED FOR
TANTO IRRIGATION, LLC.
FRONT STREET
Town of Yorktown — Westchester County, NY

Sheet 9 of 13

F:\2025\25-33 TANTO IRRIGATION (GUILLARO)_N. PAYNE ST. ELMSFORD\ENGINEERING\CADCIVIL\25-33 TANTO IRRIGATION N.PAYNE ST ELMSFORD.DWG\25- TANTO IRRIG DETAILS 4-26-26.DWG

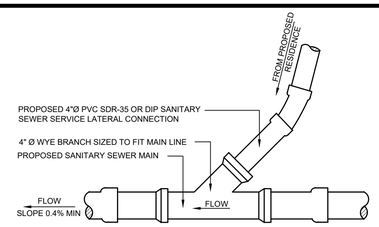


SEWER CLEANOUT DETAIL AT GRADE

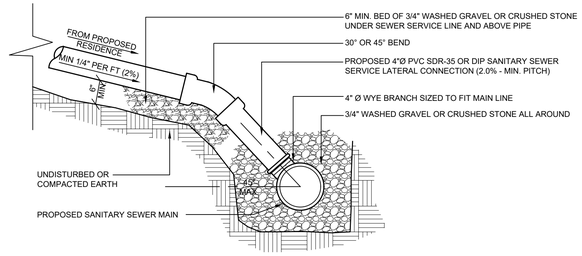
ACCESS FRAME & COVER DETAIL FOR CLEANOUT UNDER PAVEMENT

NOTES:
1. Clean-outs shall be spaced at minimum 50 ft intervals and/or at all changes in vertical and horizontal alignment.
2. All fittings to be white H.D. As manufactured by GPK Products Inc. or approved equal.

S-2 GRAVITY SEWER LATERAL CLEAN-OUT DETAIL
NOT TO SCALE



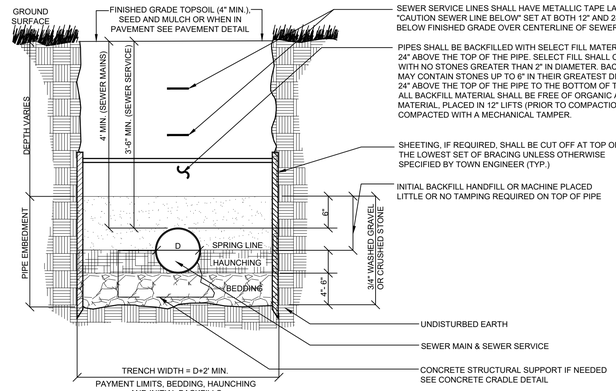
PLAN



SECTION

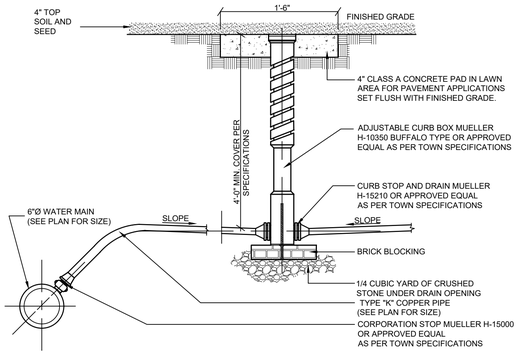
NOTES:
1. Provide cleanouts as required (see detail).
2. Contractor to follow manufacture's installation guide.
3. The contractor shall be responsible for protecting all persons during construction from harm in accordance with all applicable codes, rules & regulations, standards and good practices.
4. Contractor to notify town of Cortlandt 48 hours in advance for trench inspection.
5. All fittings to be white H.D. as manufactured by GPK Products Inc. or approved equal.
6. For backfilling requirements of sewer service see "Sewer Main/Sewer Service Trench Detail".

S-3 SEWER CONNECTION TO PROPOSED MAIN-LINE DETAIL
NOT TO SCALE

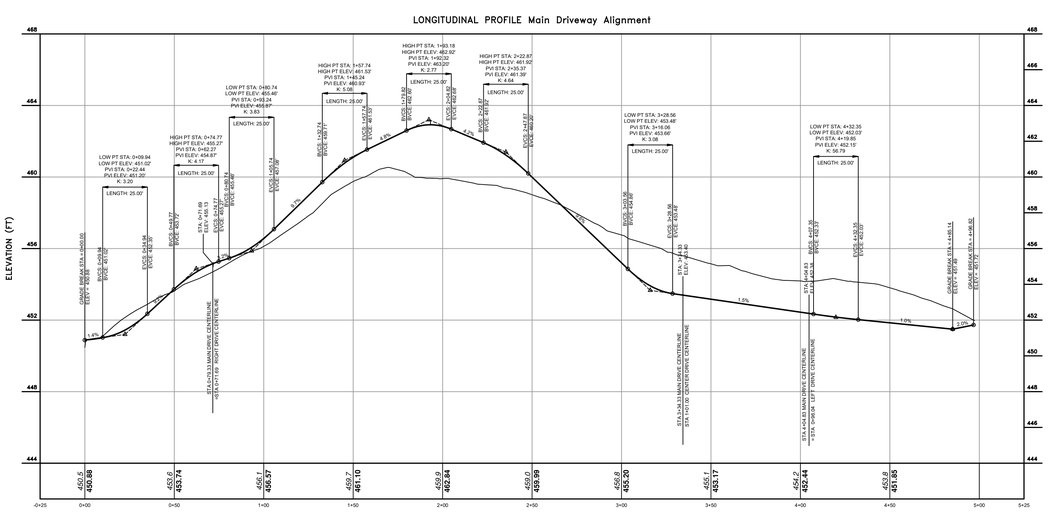


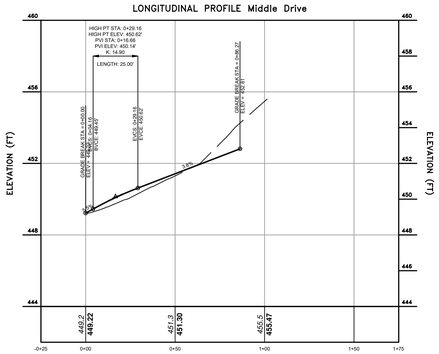
NOTES:
1. Sewer pipe shall be PVC SDR-35 in all cases except where depth of cover exceeds 10 ft. In cases where cover exceeds 10 ft, sewer pipe shall be a min. PVC SDR-26. When a sewer main is installed in a fill section, the fill shall be compacted to a min. 95% standard proctor and certified to the Town of Cortlandt.
2. No rock is to project into within the edges of the trench. In rock excavation pipe shall be a min. of 6" over and away from rock.
3. Backfill shall be placed so as to not disturb the pipe alignment.
4. In areas where adequate cover can not be maintained for sewer main, proper protection shall be provided against freezing and superimposed loading.

S-4 SEWER MAIN / SEWER SERVICE TRENCH DETAIL
NOT TO SCALE



W-2 WATER SERVICE CONNECTION DETAIL





NOTE: UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW.

F:\2025\25-53 TANTO IRRIGATION\GUILLARO\- N. PAYNE ST. ELMSFORD\ENGINEERING\CAD\C3D-25-53 TANTO IRRIGATION N PAYNE ST ELMSFORD\DWG\25- TANTO IRRIG DETAILS 4-09-26.DWG

PROJECT # 25-53

Site Design Consultants
Civil Engineers • Land Planners
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Engineer: Joseph C. Riina, P.E.
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Revisions:

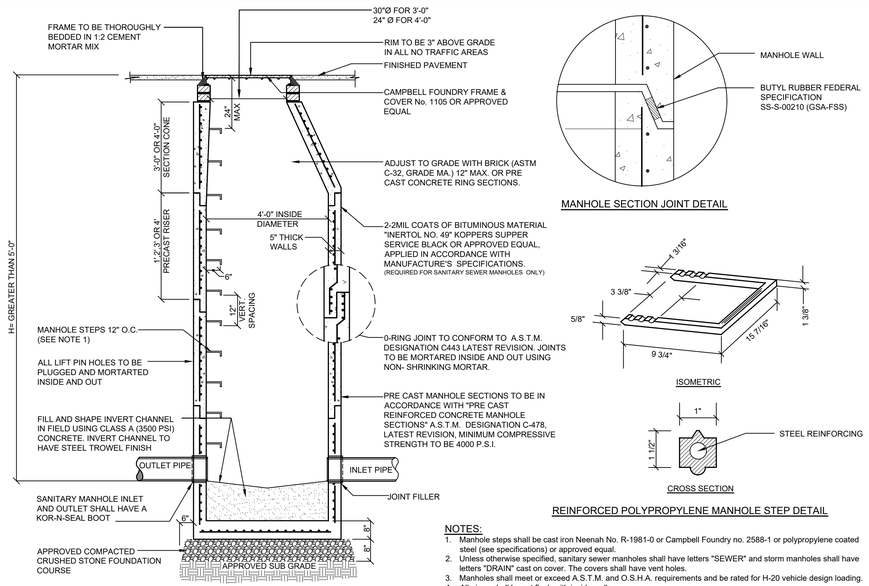
No.	Date	Comments:
1	10/1/25	PW Comments
2	3/03/26	SWPPP Update
3	4/13/26	Plan Update
4	4/26/26	Plan Update

SCALE: NTS
DRAWN BY: JCR
DATE: 8/25/25

UTILITY DETAILS

AMENDED SITE PLAN
PREPARED FOR
TANTO IRRIGATION, LLC.
FRONT STREET
Town of Yorktown Westchester County, NY

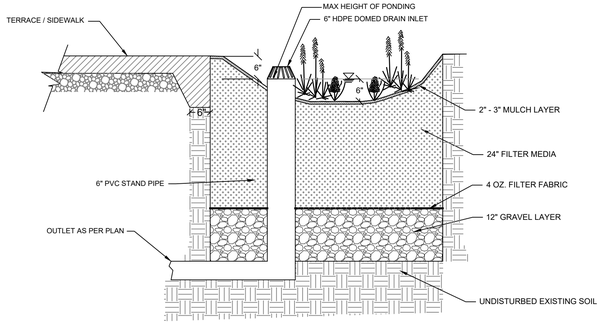
Sheet 10 of 13



NOTES:
1. Manhole steps shall be cast iron Neenah No. R-1981-0 or Campbell Foundry no. 2588-1 or polypropylene coated steel (see specifications) or approved equal.
2. Unless otherwise specified, sanitary sewer manholes shall have letters "SEWER" and storm manholes shall have letters "DRAIN" cast on cover. The covers shall have vent holes.
3. Manholes shall meet or exceed A.S.T.M. and O.S.H.A. requirements and be rated for H-20 vehicle design loading.
4. All pipes shall be cut flush with inside walls.
5. Where depth of manhole exceeds 10 ft, inside diameter shall be 60 ".

REINFORCED POLYPROPYLENE MANHOLE STEP DETAIL

D-2 PRECAST CONCRETE STORM DRAIN MANHOLE DETAIL
NOT TO SCALE



PRACTICE	RISER RIM	BASIN INV.	SOIL MEDIA INV.	DRAINAGE LAYER INV.	OUTLET PIPE INV.
RAIN GARDEN 1	449.50	449.00	447.00	446.00	446.54

FILTER SOIL SPECIFICATIONS:
SOIL SHALL BE A 50/50 MIX OF SAND AND PEAT OR LEAF COMPOST.

PLANT SPECIFICATIONS:
PLANTING INFORMATION SEE TABLE H-5 IN THE STORMWATER POLLUTION PREVENTION PLAN

NOTE:
PLANT SELECTION SHALL BE DETERMINED BY LANDSCAPE ARCHITECT.

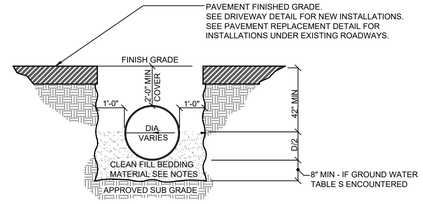
STORMWATER RAINGARDEN GROWING MEDIUM SHOULD ALLOW AN INFILTRATION RATE OF 2" PER HOUR, AND 5" AN HOUR FOR THE DRAINAGE LAYER.

SOIL COMPACTION MUST BE NO GREATER THAN 85% IN THE PLANTER.

THE GROWING MEDIUM DEPTH FOR A FLOW-THROUGH STORMWATER RAINGARDEN SHOULD BE AT LEAST 18". SHOULD BE A UNIFORM MIX OF 70% SAND (100% PASSING THE 1" SIEVE AND 5% PASSING THE NO. 200 SIEVE) AND 30% TOPSOIL WITH AN AVERAGE OF 5% ORGANIC MATERIAL SUCH AS COMPOST OR PEAT, FREE OF STONES, ROOTS AND WOODY DEBRIS AND ANIMAL WASTE.

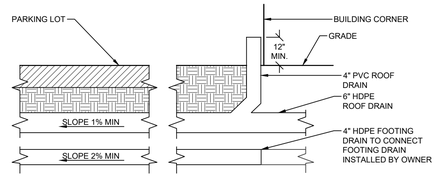
THE DRAINAGE LAYER SHOULD HAVE A MINIMUM DEPTH OF 12 INCHES. DRAINAGE LAYER SHOULD BE CLEAN GRAVEL OR SAND WITH 100% PASSING THE 1-INCH SIEVE AND 5% PASSING THE NO. 200 SIEVE.

SW-4 RAINGARDEN DETAIL
NOT TO SCALE

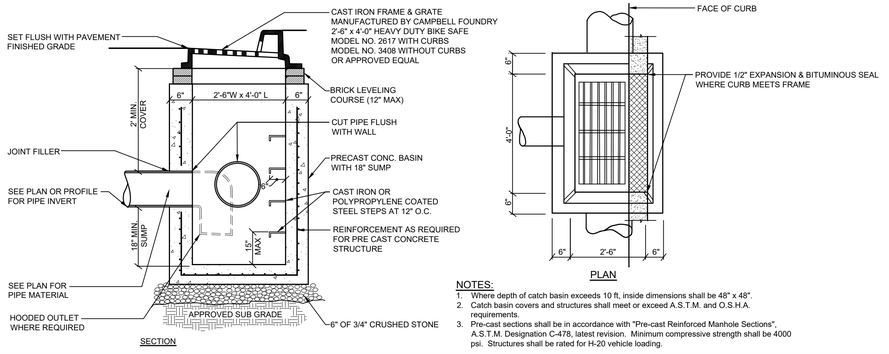


NOTES:
1. Pipe shall be laid and connected in the bedding which shall consist of:
   A. Compacted existing subsoil when laid above ground water or;
   B. 3/4" crushed stone when laid below ground water.
2. If subsoil is determined to be unsuitable by the Engineer, all unsuitable material shall be removed for at least 2'-6" below the pipe invert or twice the pipe diameter, whichever is greater, and replaced with compacted bedding material.

D-5 STORM PIPE BEDDING DETAIL
NOT TO SCALE

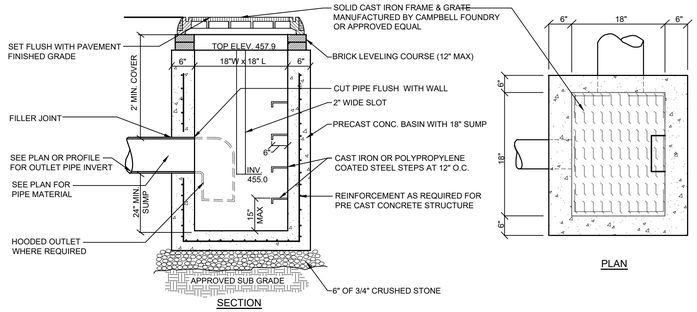


D-6 ROOF & FOOTING DRAIN CONNECTION DETAIL
NOT TO SCALE



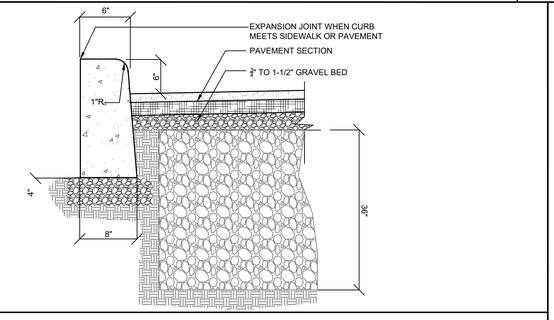
NOTES:
1. Where depth of catch basin exceeds 10 ft, inside dimensions shall be 48" x 48".
2. Catch basin covers and structures shall meet or exceed A.S.T.M. and O.S.H.A. requirements.
3. Pre-cast sections shall be in accordance with "Pre-cast Reinforced Manhole Sections", A.S.T.M. Designation C-478, latest revision. Minimum compressive strength shall be 4000 psi. Structures shall be rated for H-20 vehicle loading.

D-3 TYPICAL CATCH BASIN DETAIL
NOT TO SCALE

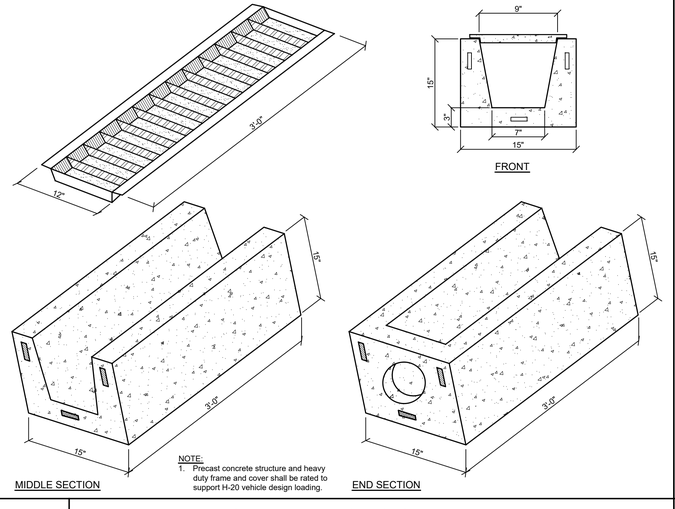


NOTES:
1. Where depth of catch basin exceeds 10 ft, inside dimensions shall be 48" x 48".
2. Top of basin shall be built with precast concrete structural slab designed for H-20 vehicle loading.

D-4 DETENTION OUTLET STRUCTURE
NOT TO SCALE

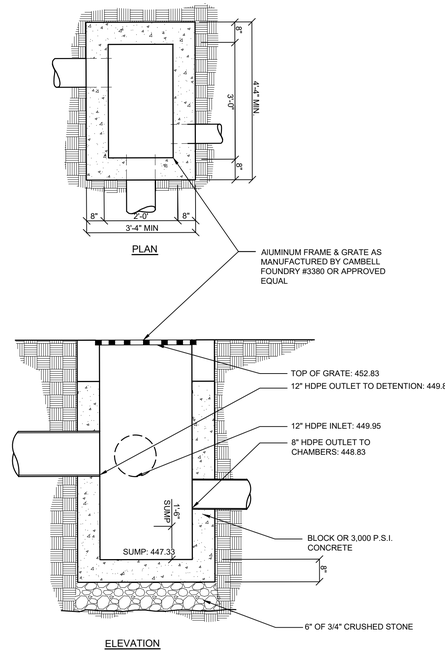


SW-5 SUBSURFACE DETENTION DETAIL
NOT TO SCALE



NOTE:
1. Precast concrete structure and heavy duty frame and cover shall be rated to support H-20 vehicle design loading.

D-7 TRENCH DRAIN BOX & GRATE DETAIL
NOT TO SCALE



D-8 BYPASS DETAIL
NOT TO SCALE

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PROJECT # 25-33

STATE OF NEW YORK — JOSEPH C. RIINA — 079879 — LICENSED PROFESSIONAL ENGINEER
Engineer
Joseph C. Riina, P.E.
NYS Lic. No. 64431

Revisions:

No.	Date	Comments
1	10/7/25	PW Comments
2	3/03/26	SWPPP Update
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SCALE: NTS
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DRAINAGE DETAILS

AMENDED SITE PLAN
PREPARED FOR
TANTO IRRIGATION, LLC.
FRONT STREET
Town of Yorktown Westchester County, NY

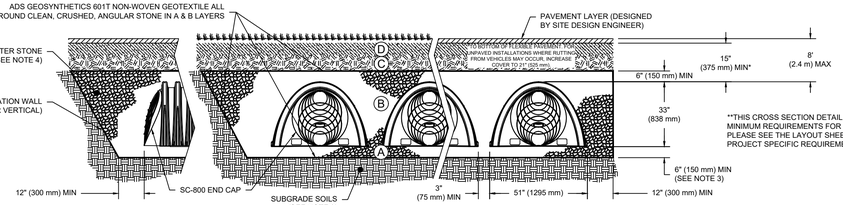
Sheet 11 of 13

F:\2025\25-33 TANTO IRRIGATION (GUILLARO)-N. PAYNE ST. ELMSFORD\ENGINEERING\CAD\C3D\25-33 TANTO IRRIGATION N.PAYNE ST ELMSFORD\DWG\25- TANTO IRRIG DETAILS 4-26-26.DWG

ACCEPTABLE FILL MATERIALS: STORMTECH SC-800 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**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.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 15" (375 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[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

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. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 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 COMPACTION REQUIREMENTS.
4. 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' 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".



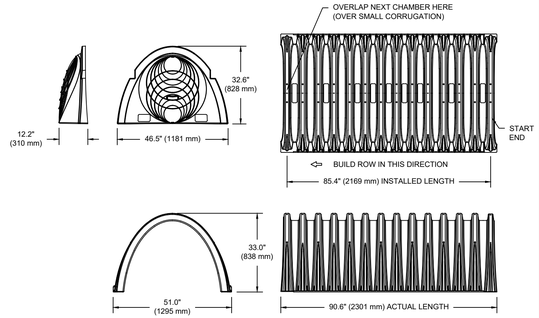
NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-800 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. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
4. PERIMETER 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" (50 mm).
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 750 LBS/FT/% 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.

SW-1

ADS SC-800 CROSS SECTION DETAIL
NOT TO SCALE

SC-800 TECHNICAL SPECIFICATION
NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	51.0" X 33.0" X 85.4"	(1295 mm X 838 mm X 2169 mm)
CHAMBER STORAGE	50.6 CUBIC FEET	(1.43 m³)
MINIMUM INSTALLED STORAGE*	78.4 CUBIC FEET	(2.22 m³)
WEIGHT	81.8 lbs.	(37.1 kg)

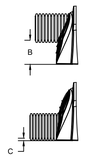
NOMINAL END CAP SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	46.5" X 32.6" X 10.5"	(1181 mm X 828 mm X 267 mm)
END CAP STORAGE	3.4 CUBIC FEET	(0.09 m³)
MINIMUM INSTALLED STORAGE**	14.7 CUBIC FEET	(0.42 m³)
WEIGHT	15.7 lbs.	(7.1 kg)

* ASSUMES 6" (150 mm) STONE ABOVE AND BELOW CHAMBER, 3" (75 mm) BETWEEN CHAMBERS
**ASSUMES 6" (150 mm) STONE ABOVE AND BELOW END CAPS, 3" (75 mm) BETWEEN ROWS, 12" (300 mm) BEYOND END CAPS

PRE-CORED HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "BPC"
PRE-CORED HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "TPC"

PART #	STUB	B	C
SC800EPE06TPC	6" (150 mm)	21.4" (544 mm)	---
SC800EPE06BPC		---	0.9" (23 mm)
SC800EPE08TPC	8" (200 mm)	19.2" (488 mm)	---
SC800EPE08BPC		---	1.0" (25 mm)
SC800EPE10TPC	10" (250 mm)	17.0" (432 mm)	---
SC800EPE10BPC		---	1.2" (30 mm)
SC800EPE12TPC	12" (300 mm)	14.4" (366 mm)	---
SC800EPE12BPC		---	1.6" (41 mm)
SC800EPE15TPC	15" (375 mm)	11.3" (287 mm)	---
SC800EPE15BPC		---	1.7" (43 mm)
SC800EPE18TPC	18" (450 mm)	8.0" (203 mm)	---
SC800EPE18BPC		---	2.0" (51 mm)
SC800ECEZ	24" (600 mm)	---	2.3" (58 mm)



NOTE: ALL DIMENSIONS ARE NOMINAL

SW-2

ADS SC-800 TECH SPEC DETAIL
NOT TO SCALE

STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH DC-780 OR APPROVED EQUAL.^J
2. CHAMBERS SHALL BE MADE FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.^J
3. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
4. 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.
5. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
6. CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
7. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
   a. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES 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 AASHTO FOR THERMOPLASTIC PIPE.^J
   b. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2922 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.^J
   c. STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.^J
8. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE DC-780 CHAMBER SYSTEM

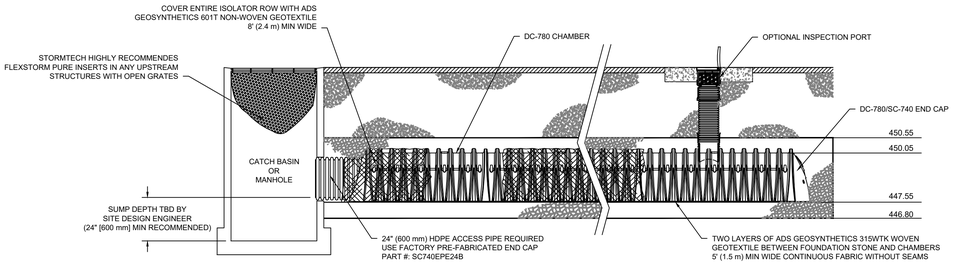
1. STORMTECH DC-780 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.^J
2. STORMTECH DC-780 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".^J
3. CHAMBERS ARE NOT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

NOTES FOR CONSTRUCTION EQUIPMENT^J

1. STORMTECH DC-780 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".^J
2. THE USE OF CONSTRUCTION EQUIPMENT OVER DC-780 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED 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".^J
3. FULL 36" (900 mm) 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 STANDARD WARRANTY.

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



DC-780 ISOLATOR ROW DETAIL
NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE^Ji) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY^Jii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

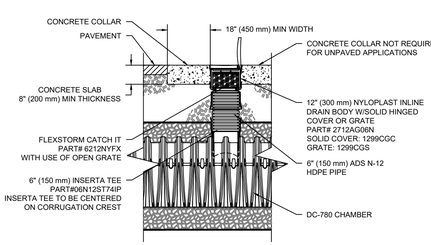
STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

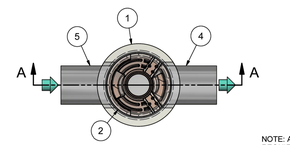
1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.^J
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



DC-780 6" INSPECTION PORT DETAIL
NTS

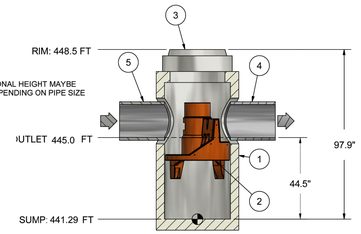
SW-3

STORMTECH DC-780 ISOLATOR ROW DETAIL
NOT TO SCALE



PLAN VIEW

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



SECTION A-A

PRODUCT SPECIFICATION:

1. PEAK HYDRAULIC FLOW: 3.96 cfs
2. MIN SEDIMENT STORAGE CAPACITY: 0.4 yd3
3. OIL STORAGE CAPACITY: 125 gal
4. MAXIMUM INLET/OUTLET PIPE DIAMETERS: 18 in. (450 mm)
5. THE TREATMENT SYSTEM SHALL USE AN INDUCED VORTEX TO SEPARATE POLLUTANTS FROM STORMWATER RUNOFF.

GENERAL NOTES:
1.General Arrangement drawings only. Contact Hydro International for site specific drawings.
2.Inlet/outlet pipe angle can vary to align with drainage network (refer to project plan.)
3.Peak flow rate and minimum height limited by available cover and pipe diameter.

PARTS LIST		
ITEM	DESCRIPTION	SIZE (in)
1	I.D. PRECAST MANHOLE	36
2	INTERNAL COMPONENTS (PRE-INSTALLED)	
3	FRAME AND COVER (ROUND)	30
4	OUTLET PIPE (BY OTHERS)	15
5	INLET PIPE (BY OTHERS)	15

PROJECTION

IF IN DOUBT ASK

COMMENTS:
1. MANHOLE WALL AND SLAB THICKNESSES ARE NOT TO SCALE.
2. CONTRACTOR TO CONFIRM RIM, PIPE INVERTS, PIPE DIA. AND PIPE ORIENTATION PRIOR TO RELEASE OF UNIT TO FABRICATION.

DATE:	SCALE: NTS	
DRAWN BY: ER	CHECKED BY:	APPROVED BY:

Title: 3 FT FIRST DEFENSE® HIGH CAPACITY

Hydro International
hydro-int.com
HYDRO INTERNATIONAL

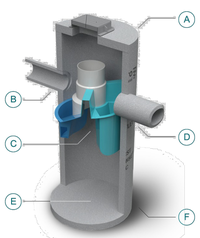
WEIGHT:	MATERIAL:
N/A	
REFERENCE NUMBER: 1558 / 19_12_3752	
DRAWING NO:	
SHEET SIZE: B	SHEET: 1 OF 1

Rev: -

bkerrigan@sitedesigncor 12/12/2019

FIRST DEFENSE® HIGH CAPACITY DESIGN SUMMARY — Hydro International

PROJECT INFORMATION	
Reference	1558 / 19_12_3752
Site	TANTO
Designer	J. RIINA
Date	
DESIGN INPUTS	
Regulatory Agency	NYSDEC, NY
Water Quality Flow Rate (cfs)	0.51
DESIGN OUTPUTS	
Product	3-ft DIAMETER FIRST DEFENSE HIGH CAPACITY
Unit Reference	FD-3HC
* Approved for use in NYSDEC, NY	
UNIT WEIGHTS AND DIMENSIONS	
(A) Unit Size (ft)	3.00
(B) Inlet Pipe Size (in)	15
(D) Outlet Pipe Size (in)	15
(F) Unit Depth (ft)	6.24
Inlet Invert Height (ft)	3.71
Outlet Invert Height (ft)	445.0
PERFORMANCE AND HYDRAULICS	
Max. Treatment Flow-Rate (cfs)	0.84
Hydraulic Capacity Flow-Rate (cfs)	3.96
Typical Operating Headloss (in)	
Maximum Headloss (in)	
STORAGE	
(C) Oil Storage Capacity (gal)	125
(E) Min.Sediment Storage Capacity (yd³)	0.4



SW-4

HYDRODYNAMIC SEPARATOR DETAIL
NOT TO SCALE

Site Design Consultants
Civil Engineers • Land Planners
251-F Underhill Avenue, Yorktown Heights, NY 10598
(914) 962-4488 - Fax: (914) 962-7386
www.sitedesignconsultants.com

PROJECT # 25-33

Engineer: Joseph C. Riina, P.E.
NYS Lic. No. 64431

Revisions:

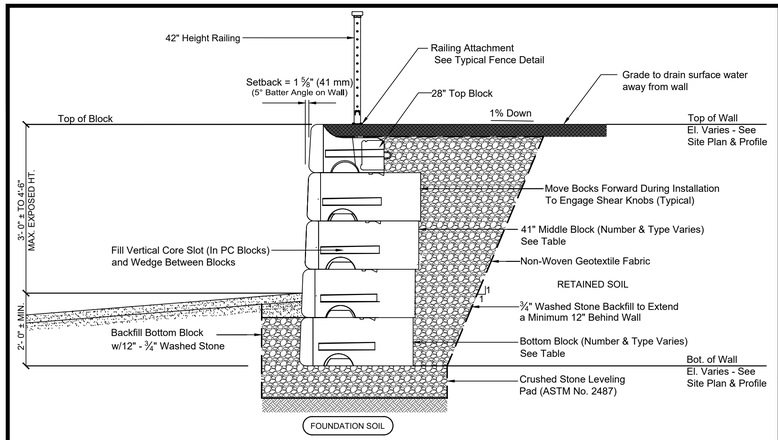
No.	Date	Comments:
1	10/1/25	PM Comments
2	1/01/26	SWPPP Update
3	4/13/26	Plan Update
4	4/26/26	Plan Update

SCALE: NTS
DRAWN BY: JCR
DATE: 8/25/25

STORMTECH DETAILS

AMENDED SITE PLAN
PREPARED FOR
TANTO IRRIGATION, LLC.
FRONT STREET
Town of Yorktown Westchester County, NY

Sheet 12 of 13



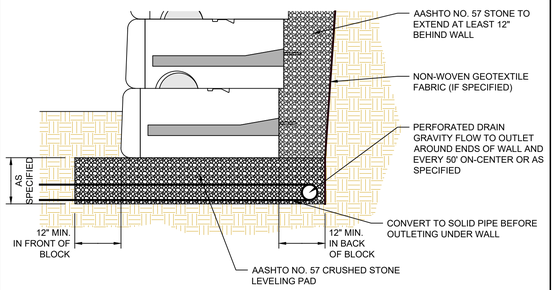
Note: The retaining wall as designed meets the minimum factors of safety for sliding, overturning, and settlement

TABLE I - TYPICAL WALL CHART

WALL HEIGHT	NO. COURSES	MINIMUM BURY DEPTH	LEVELING PAD DEPTH	WIDTH OF LEVELING PAD	NUMBER & TYPE OF BLOCK COURSES				
					60" BOTTOM BLOCKS	41" BOTTOM BLOCKS	41" MIDDLE BLOCKS	28" MIDDLE BLOCKS	28" TOP BLOCKS
2.0'	3	1.5'	1.0'	3'-9"	0	0	0	2	1
3.0'	3	1.5'	1.0'	3'-9"	0	0	0	2	1
4.0'	4	1.5'	1.0'	3'-9"	0	0	0	3	1
5.0'	4	1.5'	1.0'	4'-10"	0	1	0	2	1
6.0'	5	1.5'	1.0'	4'-10"	0	1	0	3	1
7.0'	6	1.5'	1.33'	4'-10"	0	1	1	3	1

NOTES
1. Hold Top of Wall Elevations.
2. Step Walls as Required to Meet Grades Shown on the Site Plan.
3. All Walls Shall Have a Minimum Block Embedment Depth As Noted.
4. All Walls Shall Have a 28" Top Block

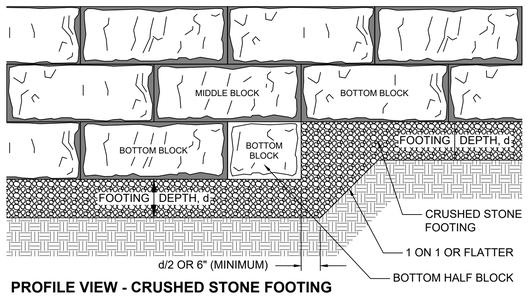
ST-1 TYPICAL GRAVITY WALL SECTION DETAIL
NOT TO SCALE



OPEN-GRADED CRUSHED STONE LEVELING PAD

ST-3 CRUSHED STONE LEVELING PAD DETAIL
NOT TO SCALE

STEP FOOTING DETAILS



PROFILE VIEW - CRUSHED STONE FOOTING
(No Scale)

ST-4 STEPPED CRUSHED STONE FOOTING DETAIL
NOT TO SCALE

GENERAL NOTES:

1. The Engineer whose seal appears hereon has not been retained for supervision of construction, subsequently, he is not responsible for construction and therefore assumes no responsibility for construction practices, procedures, and results therefrom.
2. The Engineer shall not be held responsible or held accountable for the integrity of any structures constructed or under construction prior to the approval of the plans.
3. The Town Engineer's office is to be notified 24 hours before commencing site construction.
4. All work is to be completed in accordance with the Town of Yorktown Code of Practice and Specifications.
5. All conditions, locations, and dimensions shall be field verified and the Engineer shall be immediately notified of any discrepancies.
6. 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.
7. All written dimensions on the drawings shall take precedence over any scaled dimensions.
8. It is the Contractor's responsibility to call in a "CODE 53" at least 2 days but no more than 10 days prior to construction for underground utility locations.
9. Substructures and their encroachments below grade, if any, are not shown.
10. Contractor to verify all substructures encountered during construction.
11. Any proposed electric and/or telephone service lines are to be placed underground.
12. 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.
13. The Contractor shall be responsible to the Owner for the acts and omissions of his employees, subcontractors, and their agents and employees, and any other persons performing any of the work under a contract with the Contractor.
14. The Design Engineer disclaims any liability for damage or loss incurred during or after construction.
15. *The contractor shall be responsible for obtaining all necessary permits for any blasting if required.*

GENERAL SEGMENTAL RETAINING WALL NOTES:

1. The Contractor shall inspect the site prior to starting the project and verify all existing conditions. Any discrepancies from what is shown on the plans to actual field conditions shall be reported to the Engineer immediately and prior to commencing the work.
2. All work shall conform to all applicable Federal, State and Town of Yorktown codes, rules and regulations. The Contractor shall be responsible for acquiring all permits and paying all filing fees necessary for the proposed work.
3. The Contractor shall excavate to virgin grade. The Contractor shall not place footings on any fill material.
4. Walls shall not be constructed on wet or frozen ground.
5. Excavation in general shall conform to the lines and grades shown on the Contract Drawings.
6. Top and bottom wall elevations are provided to indicate top of wall elevation and finished grade elevation respectively at front face of wall. Additional wall height shall be required as necessary to provide for proper buried wall depth and footings.
7. To ensure a proper bearing surface, the wall shall be constructed on natural in-situ soil with a minimum allowable bearing capacity of 2 TSF. The Contractor shall strip all top soil. The area shall then be compacted using suitable compaction equipment. A minimum of 3 passes shall be made.
8. If the Contractor encounters any wet area of soil while excavating or during construction of wall, he shall notify the Engineer immediately. Replacement of unsuitable soils may be required as directed by the Engineer.
9. Fill material such as concrete rubble, asphalt, boulders, pipes, etc. shall not be used as backfill material behind the wall.
10. Soils used as backfill shall consist of clean dry soil. The material shall be granular and free of organic or other deleterious material. In general the soil shall be non-plastic with a plasticity index less than 5 and shall conform to the AASHTO Soil Classification System for an "A-1-a" soil . However the maximum size shall be 6". In general all fill shall be approved by the Engineer prior to it's use. Wet material or unsuitable material should not be used.
11. Earth backfilling of walls shall be placed in one (1) foot lifts, prior to compaction and compacted to 95% standard proctor with a mechanical tamper.
12. The Contractor shall not use large or heavy constriction equipment within 5 ft of the retaining walls or new foundation walls. Hand operated compacting equipment shall be used within 5 ft of the wall face.
13. The Contractor shall be responsible for adequately bracing and protecting the wall work during construction against damage, collapse, distortions and misalignments in accordance with all applicable codes, standards and good practices.
14. The Contractor is responsible for maintaining safe cut and fill slopes in front of and behind the wall throughout construction.
15. The Contractor shall be responsible for protecting all persons during construction from harm in accordance with all applicable codes, standards and good practices.
16. The Contractor shall be responsible for providing convenient access and proper facilities for the inspection of all parts of the work
17. The Engineer shall have the right to order the removal of defected work and/or material and unapproved work and/or material. The cost of removal and replacement shall be borne by the Contractor.
18. The Contractor shall be responsible for all damage to existing properties as a result of his work or workmanship. The Contractor shall restore to existing condition any property damaged as a result of his work or workmanship at no additional cost to the owner.
19. Alternate wall designs must be sealed by a New York State Licensed Professional Engineer. The minimum Factors of Safety for sliding and overturning shall be 2.0.

SUGGESTED CONSTRUCTION SEQUENCE

Use of erosion and sediment control structures and practices are important to maintaining site stability under runoff and during daily construction activities. Construction sequence should be staged with erosion and sediment controls as follows with all controls in place and implemented prior to respective infrastructure construction. As construction proceeds, the controls should be monitored, maintained and replaced as needed. Additional controls may be required as needed to address unforeseen situations and shall be as determined by the Engineer or as directed by the Town of Yorktown. Refer to construction drawings for all plans and details which relate to construction sequence. This suggested sequence should be followed in conjunction with all Plans, Notes, and the approved Stormwater Management Plan.

Prior to the commencement of work, the Owner and General Contractor shall read and understand the sequence for construction. The sequence shall be discussed at the time of the pre-construction meeting.

CONSTRUCTION SEQUENCE:

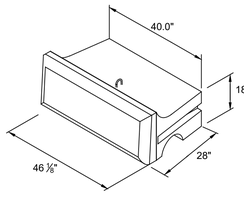
1. A licensed surveyor must define infrastructure locations, limits of disturbance, and grades in the field prior to start of any construction.
2. Install all temporary erosion control measures as shown on the erosion and sediment control plan for the project including but not limited to silt fencing, inlet protection and temporary sediment traps. The plan presents the order in which the project will be constructed. These plans must be followed to insure proper implementation of the Erosion and Sediment Control Plan (E&SC) and Stormwater Pollution Prevention Plan (SWPPP).
3. Create an access point to the project at the location shown on the approved site plan. The anti-tracking measures then shall be installed.
4. Begin preparation for construction of all retaining walls. excavate and install base course leveling course.
5. Install the walls as per plan following the details and manufacturers specifications.Areas in which final grade is achieved shall be immediately stabilized with permanent vegetative cover. Slopes less than 3:1 can be stabilized with seeding, and straw mulch or wood chip mulch. Slopes of 3:1 or greater shall receive erosion blankets. Areas which are to remain undisturbed for more than 14 days shall be stabilized with temporary seeding or mulch.
6. During the final phase of installation, finish grade, topsoil, rake, and seed all areas as required.
7. Once approval is obtained by the Erosion and Sediment Control Monitor, Engineer or Town Engineer, all temporary erosion measures may be removed.

TOWN NOTES:

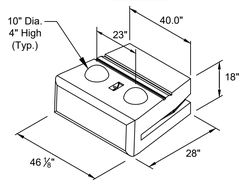
1. Prior to the issuance of a building permit, the entire clearing/grading limits shall be field staked as per the approved site plan and inspected by the Town representative.
2. Clearing and grading limit lines shall be clearly delineated in the field throughout the construction period and no encroachment beyond these limits by workers or machinery shall be permitted
3. All work regarding the footing/foundation for all site related retaining walls shall remain accessible and exposed until inspected by the Building/Engineering Division. The Building/Engineering Division shall be notified at least 48 hours in advance in order to schedule a footing/foundation inspection. Contact the Building/Engineering Departments.
4. For each truck delivering fill to the above-mentioned site, a Manifest shall be submitted and signed by the owner and/or engineer indicating the following:
   a. Deliver date
   b. Origin of fill
   c. Type of fill
   d. Certification by a New York State Licensed Professional Engineer that the fill delivered is in compliance with paragraph 360-7.1(b)(1) of 6 NYCRR Part 360 - Solid Waste Management

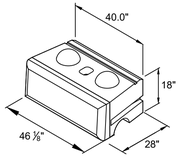
   Note: If the fill material, as determined by the Town of Yorktown, is considered to be a non-exempt material as per paragraph 360-7.1(b)(1) of 6 NYCRR Part 360 - Solid Waste Management than the property owner and/or engineer may be required to perform and/or submit additional information.
5. The owner of the property acknowledges that the Town of Yorktown and other agencies having jurisdiction shall have the right to enter the property at reasonable times and in a reasonable manner for purposes of inspection.
6. At completion, the applicant's architect/engineer shall submit a "Certificate of Construction Compliance" and "As-Built Section" certifying that the retaining wall as constructed meets all factors of safety for sliding, overturning and settlement in accordance to the approved plans on file with the Building and Engineering Department.
7. Each contractor who will be involved in a land development activity must have proof that he/she has received training and/or certification in proper erosion and sedimentation control practices.
8. Upon completion of the project an As-Built Site Plan will be submitted showing all improvements including the location septic structures and associated piping, retaining wall, drainage piping & riprap beds.

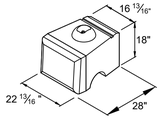
28" SERIES BLOCKS



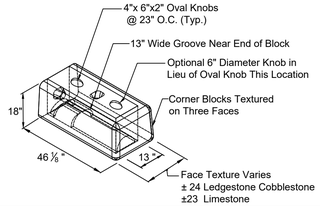
BOTTOM



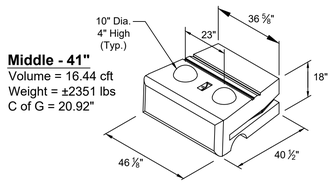




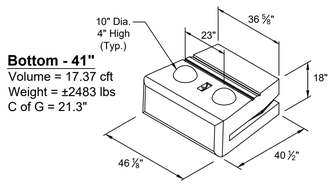
CORNER



41" SERIES BLOCKS

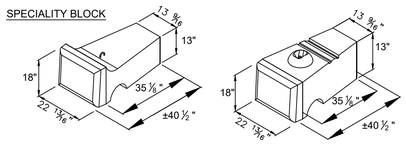


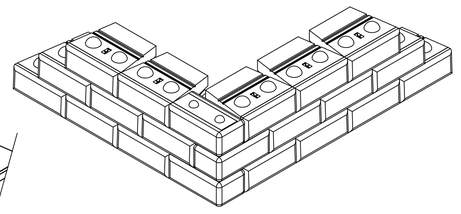
Middle - 41"
Volume = 16.44 cft
Weight = ±2351 lbs
C of G = 20.92"



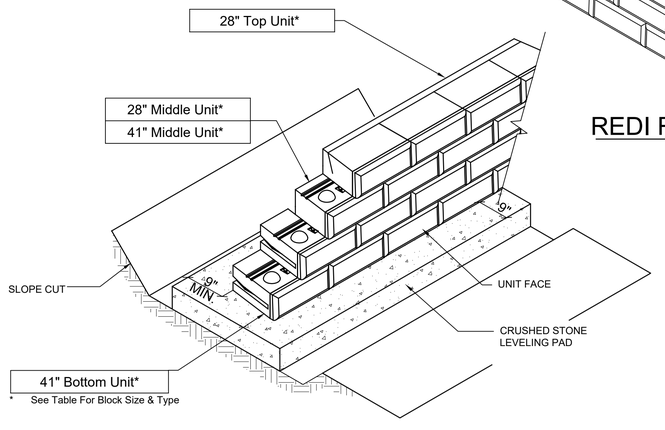
Bottom - 41"
Volume = 17.37 cft
Weight = ±2483 lbs
C of G = 21.3"

SPECIALITY BLOCK





REDI ROCK CORNER DETAIL



STANDARD UNIT/BASE PAD ISOMETRIC VIEW DETAIL

BASE LEVELING PAD NOTES:
1. The leveling pad is to be constructed of crushed washed stone or compacted aggregate.
2. The base foundation is to be approved by the site engineer prior to placement of the leveling pad.
3. See "Typical Wall Section Detail" for leveling pad layer depth
4. This Detail is used for reference only. Refer to Detail ST-1.

ST-2 REDIROCK BLOCK DETAILS
NOT TO SCALE

PROJECT # 25-33

Site Design Consultants
Civil Engineers • Land Planners
251-F Underhill Avenue, Yorktown Heights, NY 10598
(914) 962-4488 - Fax: (914) 962-7386
www.sitedesignconsultants.com

STATE OF NEW YORK — JOSEPH C. RIINA — LICENSED PROFESSIONAL ENGINEER

Joseph C. Riina, P.E.
NYS Lic. No. 64431

No.	Date	Comments:
1	10/27/25	PB Update
2	3/03/26	SWPPP Update
3	4/13/26	Plan Update
4	4/26/26	Plan Update

NTS | DRAWN BY: JCR | DATE: 8/25/25

RETAINING WALL DETAILS

AMENDED SITE PLAN
PREPARED FOR
TANTO IRRIGATION, LLC.
FRONT STREET
Town of Yorktown Westchester County, NY

Sheet 13 of 13

E:\2025\25-33 TANTO IRRIGATION,(GUILLARD)-N. PAYNE ST. ELMSFORD\ENGINEERING\CAD\C3D-25-33 TANTO IRRIGATION N PAYNE ST ELMSFORD.DWG\25- TANTO IRRIG DETAILS 4-06-26.DWG 11/6/2017 3:19:52 PM