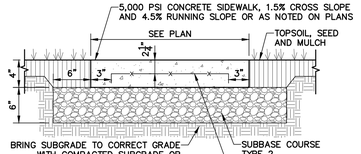


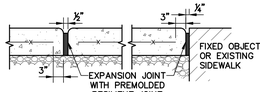
PLAN



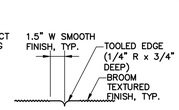
SECTION

NOTES:

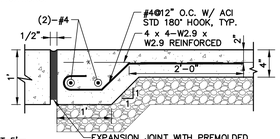
1. CONFORM TO NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS, DATED MAY 1 2008, AND ALL ADDENDA THERETO FOR MATERIAL AND METHODS OF CONSTRUCTION.
2. 5,000 PSI IS THE REQUIRED RATING FOR ALL CONCRETE, CONFORM WITH SECTION 500 – PORTLAND CEMENT CONCRETE, OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS FOR CONCRETE MATERIALS, PLACEMENT, AND CONSTRUCTION.
3. CONFORM TO SECTION 556 – REINFORCING STEEL FOR CONCRETE STRUCTURES, OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND AS SPECIFICALLY CALLED OUT IN THE DRAWINGS FOR REINFORCING STEEL FOR CONCRETE.
4. BROOM TEXTURED FINISH AND TOOLED EDGES ARE REQUIRED FOR ALL EXPOSED CONCRETE SURFACES. PROVIDE MAX 1–1/2" WIDE SMOOTH TROWEL FINISH AT JOINT.
5. THE MAXIMUM DISTANCE BETWEEN EXPANSION JOINTS IS 20' ON CENTER OR AS INDICATED ON PLANS.
6. DO NOT SAW CUT JOINTS.
7. TREAT EXPOSED CONCRETE SURFACES WITH "SUREBOND"/"SAFEBOND" SB–7000 INTENSIFIER BRIGHT PROTECTOR AND SIDEWALK SEALER, OR EQUAL. ABIDE BY MANUFACTURER'S RECOMMENDATIONS FOR RATE AND METHOD OF APPLICATION.
8. PROVIDE SUBBASE MATERIAL IN COMPLIANCE WITH SECTION 304 – SUBBASE COURSE, OF THE ABOVE REFERENCED NYSDOT STANDARD.
9. PROVIDE FILL MATERIAL, WHERE NECESSARY FOR BRINGING THE SUBGRADE ELEVATION TO A SPECIFIED GRADE, THAT IS IN ACCORDANCE WITH SECTION 203–EXCAVATION AND EMBANKMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.



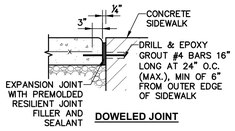
EXPANSION JOINT



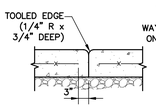
TOOLED EDGE



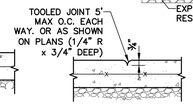
HAUNCHING



DOWELED JOINT



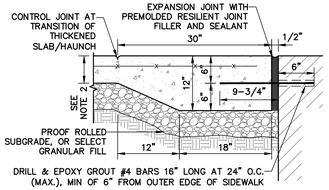
CONSTRUCTION JOINT



CONTROL JOINT

1 CONCRETE SIDEWALK W/WIRE MESH REINFORCEMENT

SCALE: NTS

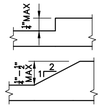


NOTES:

1. THICKENED (HAUNCH) & ADDITIONALLY REINFORCED CONCRETE SIDEWALK ENDS ARE REQUIRED AT ALL EXISTING/PROPOSED BUILDING ENTRANCES.
2. SEE CONCRETE SIDEWALK DETAIL FOR ADDITIONAL DETAILS & NOTES.

2 CONCRETE SIDEWALK AT BLDNG

SCALE: NTS

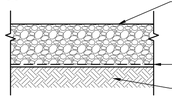


NOTE:

1. PROVIDE JOINTS BETWEEN SIDEWALKS, CURB RAMPS, TURNING SPACES AND ROADWAYS THAT ARE FLUSH AND FREE FROM ABRUPT VERTICAL CHANGES GREATER THAN ¼". BEVEL VERTICAL SURFACE DISCONTINUITIES BETWEEN ¼" AND ½" WITH A SLOPE NOT STEEPER THAN 1:2. APPLY BEVEL ACROSS THE ENTIRE JOINT.

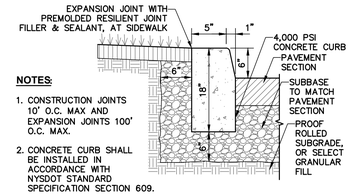
3 VERT. SURFACE DISCONTINUITIES

SCALE: NTS



4 DIRTH (NATURAL SURFACE) PATH

SCALE: NTS

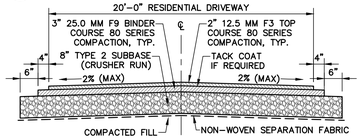


NOTES:

1. CONSTRUCTION JOINTS 10' O.C. MAX AND EXPANSION JOINTS 100' O.C. MAX.
2. CONCRETE CURB SHALL BE INSTALLED IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 609.
3. PRECAST CONCRETE CURB MAY BE SUBSTITUTED, WHEN ALTERNATE CONSTRUCTION DETAILS ARE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

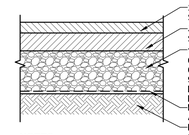
6 CAST-IN-PLACE CONCRETE CURB

SCALE: N.T.S.



7 ASPHALT PAVEMENT, DRIVEWAY

SCALE: NTS

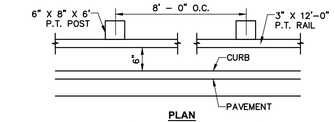


NOTES:

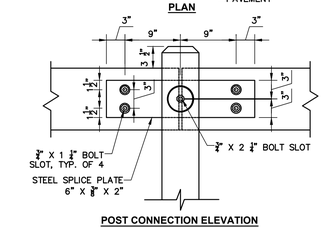
1. CONFORM TO NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS, DATED MAY 1 2008, AND ALL ADDENDA THERETO FOR MATERIAL AND METHODS OF CONSTRUCTION.
2. PROVIDE SUBBASE MATERIAL IN CONFORMANCE WITH SECTION 304 – SUBBASE COURSE OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWNGS.
3. PROVIDE ASPHALT PAVEMENT IN CONFORMANCE WITH SECTION 400–ASPHALT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWNGS. ALTHOUGH SECTION 400 IN ITS ENTIRETY IS REFERENCED, THE ASPHALT PAVEMENT(S) SPECIFIED FOR THIS CONTRACT MUST BE AS SPECIFIED UNDER SECTION 404 – ASPHALT PAVEMENTS FOR MUNICIPALITIES.
4. APPLY TACK COAT BETWEEN ALL PAVEMENT LIFTS PRIOR TO PLACING MIXTURE REGARDLESS OF TIME PERIOD BETWEEN LIFTS PER NYS DOT 404–3.
5. PROVIDE FILL MATERIAL, WHERE NECESSARY FOR BRINGING THE SUBGRADE ELEVATION TO A SPECIFIED GRADE, IN ACCORDANCE WITH SECTION 203 – EXCAVATION AND EMBANKMENT, OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
6. PAVEMENT SECTION SHOWN IS PRELIMINARY. PRIOR TO BIDDING AND COMMENCEMENT OF CONSTRUCTION, THE FINAL DESIGN OF THE PAVEMENT SECTION MUST BE PREPARED BY A NYS LICENSED PROFESSIONAL ENGINEER BE BASED ON A CURRENT GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT.

8 ASPHALT PAVEMENT, ROADWAY

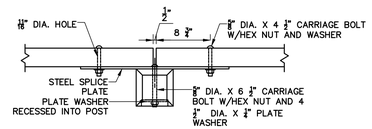
SCALE: NTS



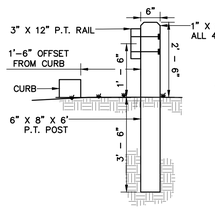
PLAN



POST CONNECTION ELEVATION



POST CONNECTION PLAN



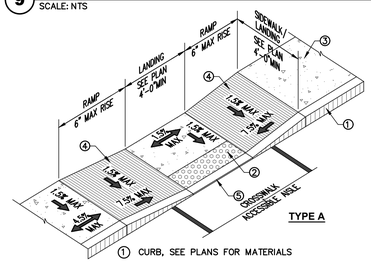
SECTION

NOTES:

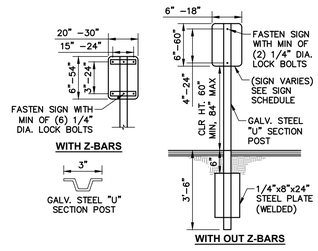
1. PROVIDE HOT–DIPPED GALVANIZED STEEL FASTENERS.
2. PROVIDE PRESSURE TREATED WOOD CONFORMING TO AWPA STANDARD U1 UCS CODE – UC4B.
3. PROVIDE POSTS AT TERMINATION POINTS OF HARDWOOD GUIDE RAIL.

9 TIMBER GUIDERAIL

SCALE: NTS



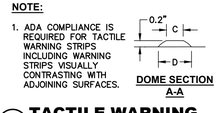
TYPE A



1. CURB, SEE PLANS FOR MATERIALS
2. TACTILE WARNING
3. SIDEWALK, SEE PLANS FOR MATERIALS
4. BROOM FINISH PERPENDICULAR TO SLOPE
5. DROP CURB, ¼" MAX VERTICAL ELEV. CHANGE

10 CURB RAMP - DROP CURB

SCALE: NTS



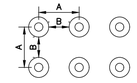
PLAN

TRUNCATED DOME DIMENSIONS		
DIM.	MIN (IN)	MAX (IN)
A	1.6	2.4
B	0.65	1.5
C	50%–65% OF "D"	
D	9.0	1.4

NOTE:

1. ADA COMPLIANCE IS REQUIRED FOR TACTILE WARNING STRIPS INCLUDING WARNING STRIPS VISUALLY CONTRASTING WITH ADJOINING SURFACES.

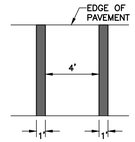
DOME SECTION A-A



DOME SPACING PLAN

11 TACTILE WARNING

SCALE: NTS

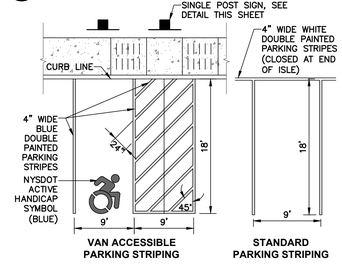


NOTE:

1. PROVIDE WHITE CROSS WALK STRIPING

12 TYPE S CROSSWALK

SCALE: NTS



VAN ACCESSIBLE PARKING STRIPING

STANDARD PARKING STRIPING

NOTES:

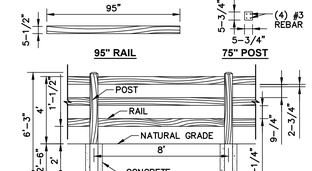
1. ALL DIMENSIONS SHALL BE IN ACCORDANCE WITH ADAAG 2010 SUPPLEMENTED BY THE 2020 BUILDING CODE OF NEW YORK STATE.
2. PAVEMENT SLOPES IN THE ACCESSIBLE SPACE AND AISLE SHALL NOT EXCEED 1.5% IN ANY DIRECTION.
3. SEE PLANS FOR SIGN FACE INFORMATION.

13 PARKING STALL STRIPING

SCALE: NTS

14 SINGLE POST SIGN DETAIL

SCALE: NTS



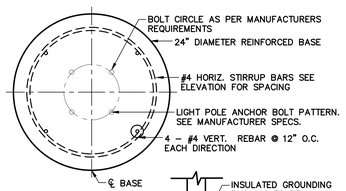
3-RAIL 8 FT. SPACING FENCE ELEVATION

NOTES:

1. BASIS OF DESIGN: 3–RAIL 8' SPACING FENCE BY PHOENIX PRECAST PRODUCTS OR APPROVED EQUAL.
2. PROVIDE CONCRETE FOOTINGS WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
3. COMPLETE INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS

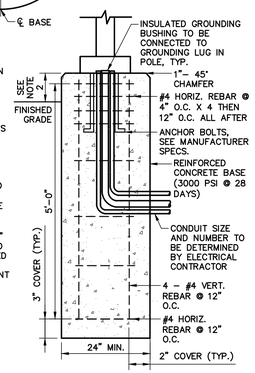
15 3-RAIL SPLIT RAIL FENCE

SCALE: NTS



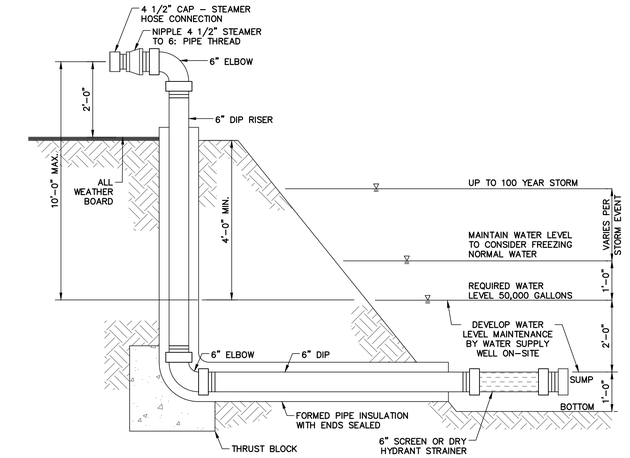
NOTES:

1. AN INCREASE IN THE OVERALL FOUNDATION DIAMETER MAY BE REQUIRED DEPENDING ON MANUFACTURERS ANCHOR BOLT REQUIREMENTS.
2. LIGHT FIXTURE FOUNDATIONS ARE TO EXTEND 6" ABOVE FINISHED GRADE IN GRASSED/ LANDSCAPED AREAS AND 36" ABOVE FINISHED GRADE IN PAVED AREAS AND IN AREAS ADJACENT TO VEHICLE TRAFFIC.



16 LIGHT POLE AND BASE

SCALE: N.T.S.



17 DRY HYDRANT INSTALLATION

SCALE: NTS

NOTE:

1. WELLS SHALL BE DISINFECTED IN ACCORDANCE WITH THE LATEST VERSION OF AWWA STANDARD A 100–15.
2. WELL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF APPENDIX 5–B "STANDSARDS FOR WATER WELLS.

18 WELL DETAIL

SCALE: NTS

SCALE: AS SHOWN
CONTRACT No.: -
MJ PROJ. No.: 1586.0
DATE: MARCH 2024

C-500

ZENA HOMES

SITE AND UTILITY DETAILS

44 EASTWOODS DRIVE
TOWN OF WOODSTOCK, ULSTER COUNTY NY

Engineering
Architecture
Landscape Architecture
and Land Surveying, P.C.

REGISTRATION EXPIRES 10-31-2026

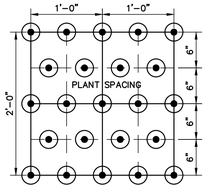
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, IE. LANDSCAPE ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND IS A CLASS "A" MISDEMEANOR.

PROJ. MGR: WL
DES'D BY: AB
DRAWN BY: AB
CHK'ED BY: WL

SUBMITTAL / REVISIONS

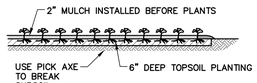
No.	DATE	DESCRIPTION	BY	REV'D BY:	DATE
1	12/08/2025	REVISED PER TOWN COMMENTS	AB	WL	12/08/2025
2	10/16/2026	REVISED PER TOWN COMMENTS	AB	WL	10/16/2026

SPACING	NO. OF PLANTS
4"	9
6"	4
10"	1.44
12"	1.00
18"	0.44
24"	0.25

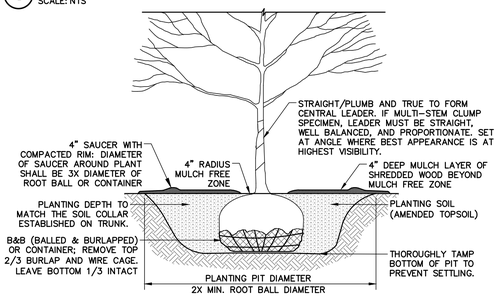


NOTES:

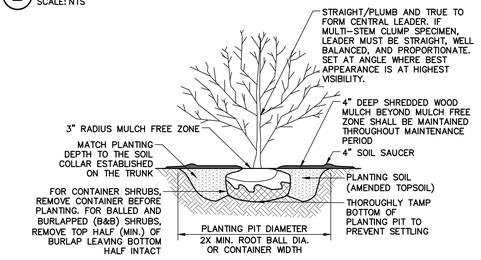
1. PROVIDE GROUND COVERS AS POT OR CONTAINER GROWN.
2. SEE LANDSCAPE PLANT LIST FOR RECOMMENDED PLANT SPACING FOR EACH GROUND COVER TYPE.
3. STAGGER PLANTS BETWEEN EACH ROW. SEE DIAGRAM ABOVE.



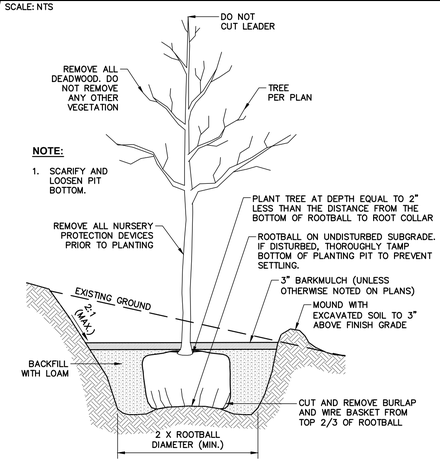
1 GROUND COVER PLANTING
SCALE: NTS



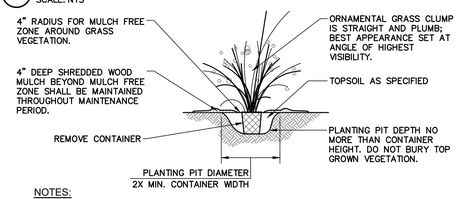
2 TREE PLANTING
SCALE: NTS



3 SHRUB PLANTING
SCALE: NTS



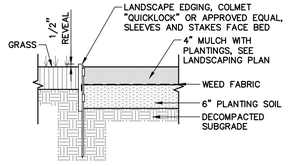
4 TREE PLANTING ON SLOPE
SCALE: NTS



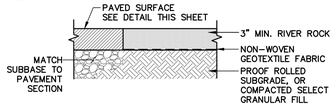
NOTES:

1. SEE SPECIFICATION SECTIONS, 329113, SOIL PREPARATION AND 329300 "PLANTS".

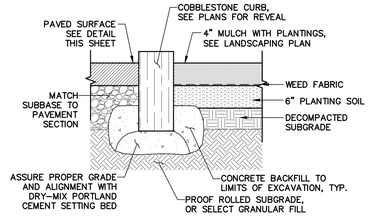
5 ORNAMENTAL GRASS PLANTING
SCALE: NTS



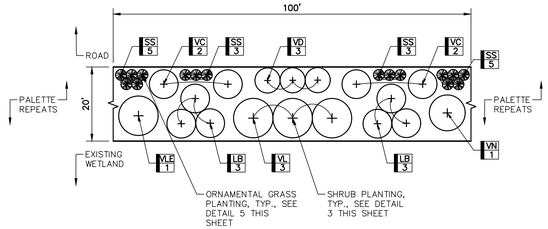
6 MULCH LANDSCAPE BED / GRASS TRANSITION, EDGING
SCALE: NTS



7 MULCH LANDSCAPE BED / PVMNT TRANSITION, NO EDGING
SCALE: NTS



8 MULCH LANDSCAPE BED / PAVED SURFACE TRANSITION - CURB
SCALE: NTS

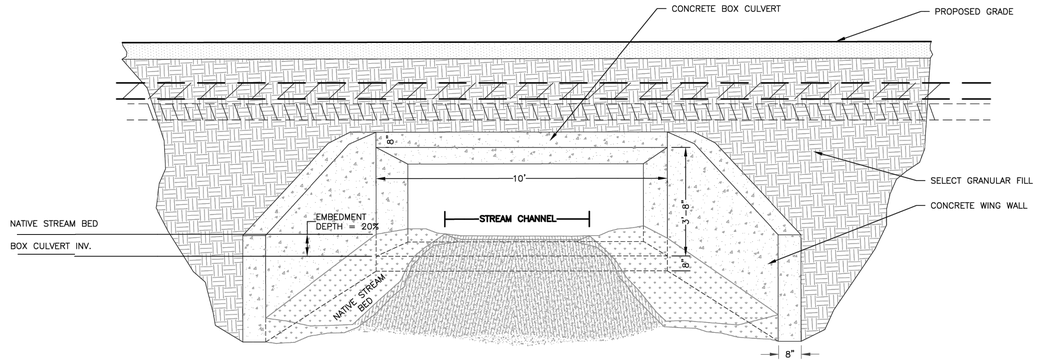


Type	Abbrv.	*Scientific Name*	Common Name	Size/Form	Spacing
Grasses:					
	SS	*Schizachyrium scoparium*	Little Bluestem	#3 Pot	12" o.c.
Shrubs:					
	LB	*Lindera benzoin*	Northern Spicebush	#5 Pot	As Shown
	VC	*Vaccinium corymbosum*	Highbush Blueberry	#5 Pot	As Shown
	VD	*Viburnum dentatum*	Arrowwood Viburnum	#5 Pot	As Shown
	VL	*Viburnum lantanoides*	Hobblebush	#5 Pot	As Shown
	VLE	*Viburnum lentago*	Nannyberry	#5 Pot	As Shown
	VN	*Viburnum nudum* var. *cassinoides*	Nothern Wild-Raisin	#5 Pot	As Shown

PLANTING NOTES:

1. ALL WETLAND MITIGATION AREAS SHOWN HEREIN ARE TO CONTAIN NATIVE AND NON-INVASIVE PLANTINGS CONSISTENT WITH THE NEW YORK STATE NATIONAL HERITAGE PROGRAM HEMLOCK-HARDWOOD SWAMP ECOTYPE.
2. ALL PLANT SUBSTIUTIONS INCLUDING SPECIES AND SIZE MUST BE APPROVED BY OWNER.

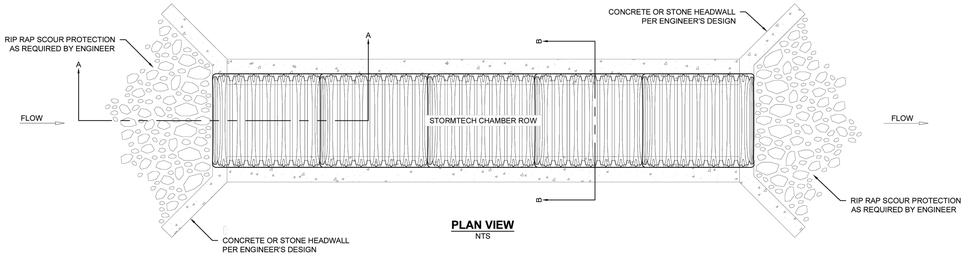
9 WETLAND BUFFER MITIGATION PLANTING TYPOLOGY
SCALE: 1" = 20'



BOX CULVERT CROSS SECTION

NOTES:
1) DESIGN OF BOX CULVERT AND ALL APPLICABLE REINFORCEMENT SHALL BE COMPLETED BY LICENSED STRUCTURAL ENGINEER AND DESIGNED IN ACCORDANCE WITH ALL APPLICABLE CODES.
2) SHOP DRAWING SHALL BE SUBMITTED TO DESIGN ENGINEER AND APPROVED PRIOR TO CASTING OF BOX CULVERT
3) BOX CULVERT SHALL BE H20 RATED.

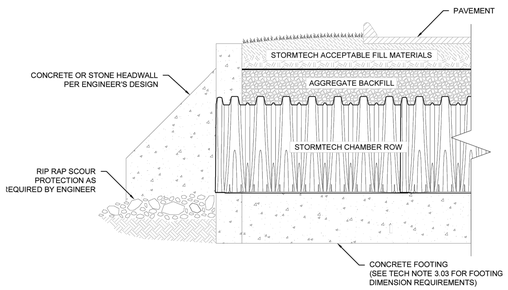
10 BOX CULVERT
SCALE: NTS



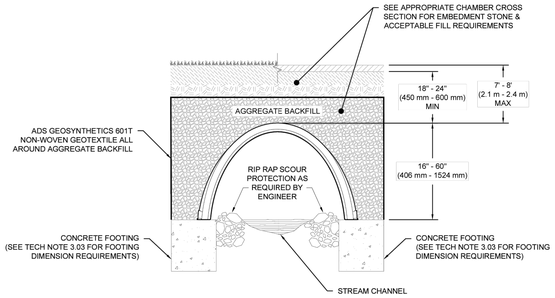
PLAN VIEW
NTS

NOTES

- CHAMBERS CANNOT BE USED AS COMMON CONVEYANCE CULVERTS SINCE TYPICAL CULVERT FLOWS CAN EASILY EXCEED SCOUR VELOCITIES EVEN WITH SCOUR PREVENTION MEASURES IN PLACE
- *OPEN BOTTOM CULVERTS ARE HIGHLY SUSCEPTIBLE TO SCOUR BUT BY UTILIZING GOOD DESIGN PRACTICES AND SCOUR PROTECTION MEASURES THEY CAN BE A VIABLE OPTION FOR LOW VELOCITY WATERWAYS.*
- THE DESIGN ENGINEER MUST ANALYZE THE FLOWS AND VELOCITIES THROUGH THE CHAMBER SYSTEM AND DESIGN THE APPROPRIATE SCOUR PREVENTATIVE MEASURES AT THE INLET, DOWN THE BARREL OF THE CHAMBERS AND AT THE OUTLET.
- HEADWALL DESIGN TO BE DETERMINED BY DESIGN ENGINEER PER LOCAL REQUIREMENTS

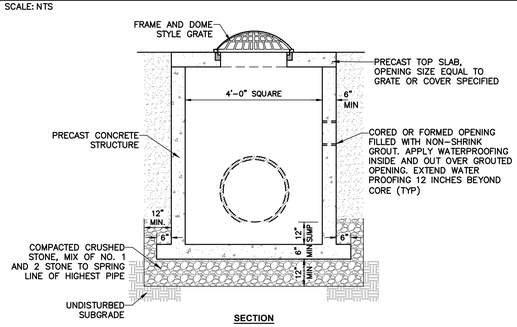


SECTION VIEW A-A
NTS

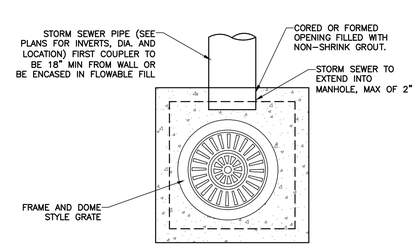


SECTION VIEW B-B
NTS

11 OPEN BOTTOM STORM CHAMBER CULVERT
SCALE: NTS



SECTION



PLAN

12 OVERFLOW STRUCTURE
SCALE: NTS

SUBMITTAL / REVISIONS

No.	DATE	DESCRIPTION	BY	REV'D BY:	DATE
1	12/08/2025	REVISED PER TOWN COMMENTS	AB	WL	12/08/2025
2	10/16/2026	REVISED PER TOWN COMMENTS	AB	WL	10/16/2026

PROJ. MGR: WL
DES'D BY: AB
DRAWN BY: AB
CHK'ED BY: WL

SCALE: AS SHOWN
CONTRACT No.: -
MJ PROJ. No.: 1586.0
DATE: MARCH 2024

C-501

ZENA HOMES

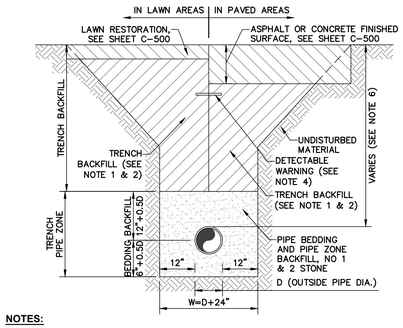
SITE AND UTILITY DETAILS

44 EASTWOODS DRIVE
TOWN OF WOODSTOCK, ULSTER COUNTY NY

Engineering
Architecture
Landscape Architecture
and Land Surveying, P.C.

REGISTRATION EXPIRES 03/31/2026

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL ARCHITECT OR ENGINEER FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND IS A CLASS "A" MISDEMEANOR.



NOTES:

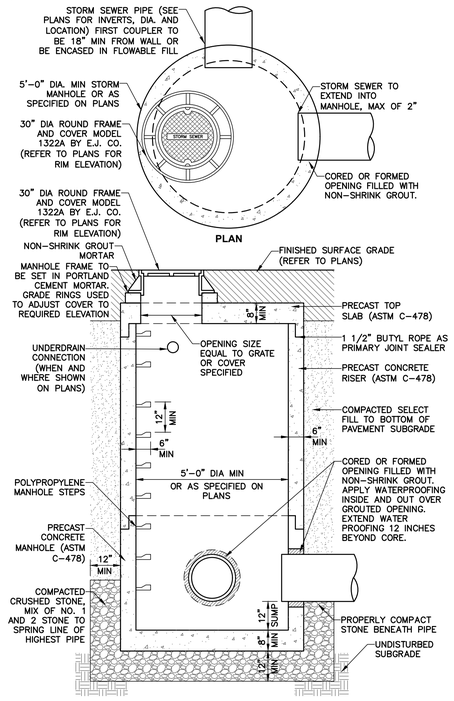
1. PIPE BEDDING & PIPE ZONE BACKFILL SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) SAND OR A MIXTURE OF CRUSHED STONE AND GRAVEL, FREE OF SOFT, UNDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. BEDDING GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE DESIGNATION	% PASSING
3/4"	100%
NO. 40	0-70%
NO. 200	0-10%

2. ON-SITE EXCAVATED TRENCH MATERIAL MAY BE USED FOR TRENCH BACKFILL IF MEETING THE REQUIREMENTS OF SELECT FILL MATERIAL.
3. PLACE DETECTABLE WARNING TAPE 6" BELOW SUBBASE IN PAVED AREAS AND 12" BELOW FINISHED GRADE IN LAWN OR LANDSCAPING AREAS.
4. TRENCHING SHALL BE IMPLEMENTED IN ACCORDANCE WITH O.S.H.A. STANDARDS.
5. THE MINIMUM DEPTH TO TOP OF UTILITY PIPE SHALL BE:

   POTABLE WATER: 5'-0", SANITARY SEWER: 4'-0", STORM SEWER: 2'-0"
6. COMPACT EACH LAYER OF FILL AND BACKFILL FOR THE FOLLOWING AREA CLASSIFICATIONS TO THE PERCENTAGE OF MAXIMUM DENSITY SPECIFIED BELOW AND AT A MOISTURE CONTENT SUITABLE TO OBTAIN THE REQUIRED DENSITIES, BUT AT NOT LESS THAN THREE PERCENT DRIER OR MORE THAN TWO PERCENT WETTER THAN THE OPTIMUM CONTENT AS DETERMINED BY ASTM D1557 (MODIFIED PROCTOR).
   PIPE BEDDING AND PIPE ZONE BACKFILL: 95%
   TRENCH BACKFILL BELOW PAVEMENT OR WALKS: 95%
   TRENCH BACKFILL BELOW LANDSCAPED AREAS: 90%

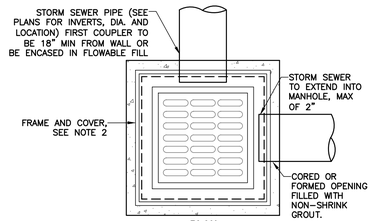
1 PIPE TRENCH AND BEDDING
SCALE: N.T.S.



NOTES:

1. ALL PRECAST CONSTRUCTION IN ACCORDANCE W/ASTM C478.
2. MANHOLE SHALL BE PRECAST CONCRETE DESIGNED FOR H-20 VEHICULAR LOADING.
3. FRAME AND COVER SHALL BE DESIGNED FOR H-20 VEHICULAR LOADING.
4. CONCRETE MANHOLE LID CLEAR OPENING DIMENSION MUST MATCH FRAME AND COVER CLEAR OPENING DIMENSION.
5. STRUCTURES HAVING A DEPTH GREATER THAN 48" FROM FINISHED SURFACE TO THE FLOOR OF THE CONCRETE BASE SHALL BE PROVIDED WITH STEPS.
6. BACKFILL USING SELECT BACKFILL, COMPACTED IN 6" LIFTS.
7. SUMPS SHALL BE 12".
8. ECCENTRIC CONE TOP CAN BE USED FOR MANHOLES DEPTH GREATER THAT 7 FEET.

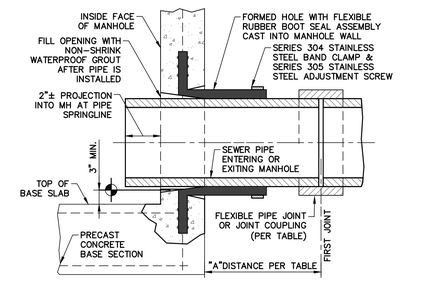
2 STORM SEWER MANHOLE
SCALE: N.T.S.



NOTES:

1. PROVIDE PRECAST CONSTRUCTION IN ACCORDANCE WITH ASTM C890, AND DESIGNED FOR H-20 VEHICULAR LOADING.
2. PROVIDE FRAME AND GRATE: E.J. CO. MODEL V5726 DUCTILE IRON GRATE/CAST IRON FRAME ASSEMBLY, OR APPROVED EQUAL, DESIGNED FOR H-20 LOAD RATING AND ADA COMPLIANT.
3. PROVIDE PRECAST TOP SLAB OPENING WITH A DIMENSION EQUAL TO OR GREATER THAN GRATE DIMENSIONS.
4. PROVIDE STEPS FOR STRUCTURES HAVING A DEPTH GREATER THAN 60" FROM FINISHED SURFACE TO THE FLOOR OF THE CONCRETE BASE.
5. BACKFILL USING SELECT BACKFILL, COMPACTED IN 6" LIFTS.

3 STORM CATCH BASIN (SQUARE) - PRECAST
SCALE: N.T.S.

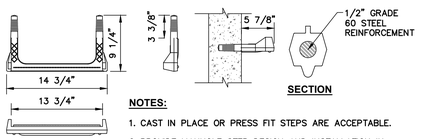


FLEXIBLE JOINT REQUIREMENT		
SEWER PIPE TYPE	FLEXIBLE JOINT TYPE IN & OUT	"A" DISTANCE (FEET)
DUCTILE IRON	STANDARD RUBBER GASKET PIPE JOINT ONLY	10' MAX.
PVC	STANDARD RUBBER GASKET PIPE JOINT ONLY	3' MAX.

NOTE:

1. REFERENCE MANHOLE DETAIL(S) FOR REQUIRED INVERT CHANNEL CONFIGURATION.

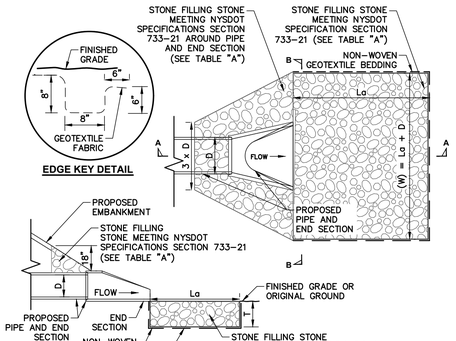
4 PIPE CONNECTION TO DRAINAGE STRUCTURE FLEXIBLE RUBBER BOOT
SCALE: NTS



NOTES:

1. CAST IN PLACE OR PRESS FIT STEPS ARE ACCEPTABLE.
2. PROVIDE MANHOLE STEP DESIGN AND INSTALLATION IN COMPLIANCE WITH OSHA REGULATIONS.
3. M.A. INDUSTRIES, INC. PS2-RF STEP OR APPROVED EQUAL.

5 COPOLYMER POLYPROPYLENE MANHOLE STEP
SCALE: NTS

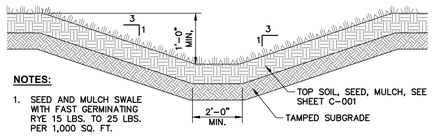


STONE APRON SIZING REQUIREMENT TABLE "A"							
CULVERT DIA. (D)	CULVERT SLOPE, %	APRON MATERIAL SIZE, d50 (FT)	APRON MATERIAL SIZE, dmax (FT)	APRON MATERIAL PER NYSDOT CLASSIFICATION	MINIMUM APRON THICKNESS (IN) (T)	MINIMUM OUTLET APRON LENGTH (FT) (La)	MINIMUM OUTLET APRON WIDTH (FT) (W)
8", 10", 12"	<8	0.75	1.17	LIGHT	20	16	17
	8-10	1.0	1.50	MEDIUM	27	17	18
18"	<4	1.0	1.5	MEDIUM	27	19	21
	4-8	1.0	1.5	MEDIUM	27	22	24
	8-8	1.25	1.83	HEAVY	32	23	25
	8-10	1.25	1.83	HEAVY	32	25	27
24"	<3	1.0	1.5	MEDIUM	27	24	26
	3-4	1.25	1.83	HEAVY	27	27	29
	4-8	1.5	1.83	HEAVY	32	32	34

NOTES:

1. MATERIALS SHALL CONTAIN A SUFFICIENT AMOUNT OF STONES SMALLER THAN THE AVERAGE STONE SIZE TO FILL THE SPACES BETWEEN THE STONES.
2. HEAVIER GRADING OF THIS ITEM MAY BE REQUIRED AS NOTED ON PLAN.

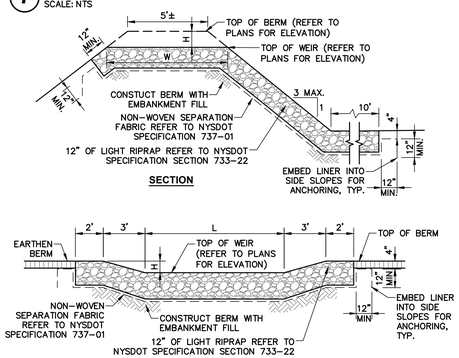
6 STONE LINED APRON FOR PIPE OUTLET AT TOE OF SLOPE
SCALE: N.T.S.



NOTES:

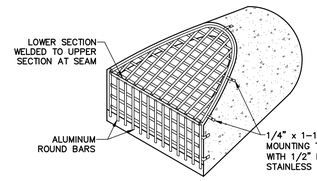
1. SEED AND MULCH SWALE WITH FAST GERMINATING RYE 15 LBS. TO 25 LBS. PER 1,000 SQ. FT.
2. SEE GRADING PLANS FOR SWALE SLOPE.

7 GRASS LINED CHANNEL
SCALE: NTS



WEIR DIMENSIONS (FT)			
WEIR NUMBER	LENGTH (L)	HEIGHT (H)	WIDTH (W)
F1	20.00	1.00	11.00
B1	20.00	1.00	11.00
F2	20.00	1.00	11.00
B2	20.00	1.00	11.00
F3	20.00	1.00	11.00
B3	20.00	1.00	11.00

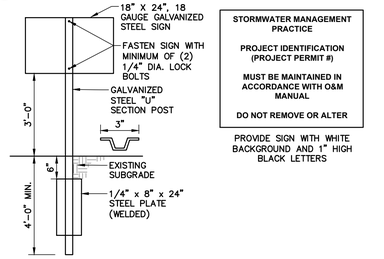
8 OVERFLOW WEIR
SCALE: NTS



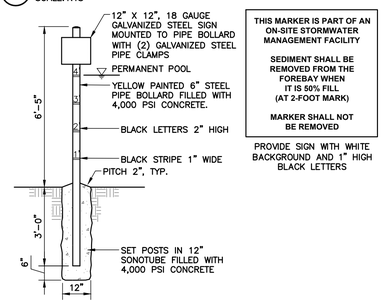
NOTES:

1. BASIS OF DESIGN: "ALUMINUM FLARED END SECTION AFES RACK" BY EFFLUENT DESIGN AND FABRICATION OR APPROVED EQUAL.
2. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

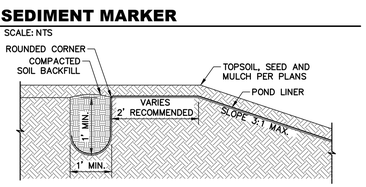
9 FLARED END SECTION TRASH RACK
SCALE: NTS



10 STORMWATER MANAGEMENT SIGN
SCALE: NTS



11 SEDIMENT MARKER
SCALE: NTS



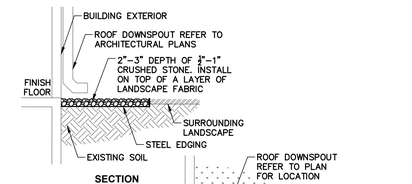
NOTE:

1. PROVIDE A 30MM POLY LINER ON BOTTOM AND SIDES OF ALL FOREBAYS. LINER TO BE WESTERN ENVIRONMENTAL AQUA 30 COEXT POLYETHYLENE LINER OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

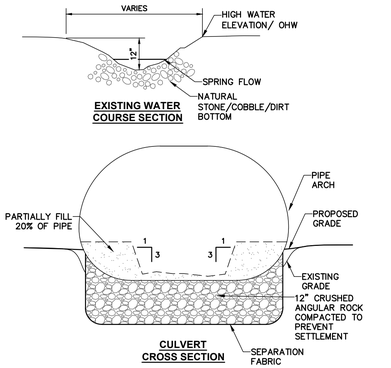
POND LINER INSTALLATION:

1. EXCAVATE A 1' WIDE BY 1' DEEP ANCHOR TRENCH AROUND ENTIRE PERIMETER OF POND AT A LOCATION SPECIFIED BY THE ENGINEER.
2. DEPLOY LINER PANELS IN PARALLEL WITH EDGES OVERLAPPED 6". ENDS OF PANELS TO EXTEND PAST ANCHOR TRENCH TO A DISTANCE SUFFICIENT TO ALLOW PANEL TO BE BACKFILLED INSIDE TRENCH.
3. CLEAN OVERLAP AREAS WITH CLEAN, SOFT RAGS AND WATER.
4. JOIN LINER PANELS WITH A MINIMUM 2" CONSTANT WELD USING A HOT WEDGE WELDER.
5. PLACE ENDS OF PANELS INTO ANCHOR TRENCH SUCH THAT PANEL IS SINGLE LAYER THROUGH THE BOTTOM OF THE TRENCH. BACKFILL TRENCH AND COMPACT AS APPROVED BY THE ENGINEER.

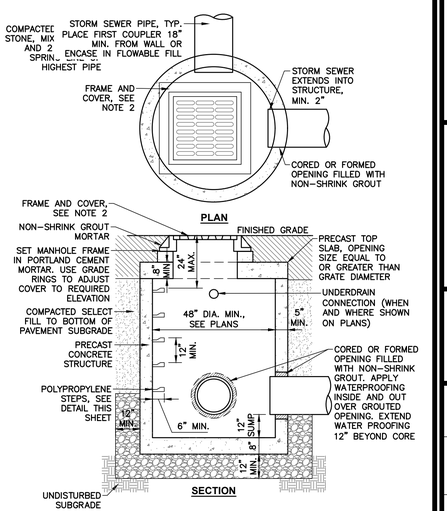
12 POND LINER ANCHOR TRENCH DETAIL
SCALE: NTS



13 DOWNSPOUT SPLASH AREA
SCALE: N.T.S.



14 TYPICAL CULVERT SECTION
SCALE: NTS



NOTES:

1. PROVIDE PRECAST CONSTRUCTION IN ACCORDANCE WITH ASTM C890, AND DESIGNED FOR H-20 VEHICULAR LOADING.
2. PROVIDE FRAME AND GRATE: E.J. CO. MODEL V5726 DUCTILE IRON GRATE/CAST IRON FRAME ASSEMBLY, OR APPROVED EQUAL, DESIGNED FOR H-20 LOAD RATING AND ADA COMPLIANT.
3. PROVIDE PRECAST TOP SLAB OPENING WITH A DIMENSION EQUAL TO OR GREATER THAN GRATE DIMENSIONS.
4. PROVIDE STEPS FOR STRUCTURES HAVING A DEPTH GREATER THAN 60" FROM FINISHED SURFACE TO THE FLOOR OF THE CONCRETE BASE.
5. BACKFILL USING SELECT BACKFILL, COMPACTED IN 6" LIFTS.

15 STORM CATCH BASIN (ROUND)
SCALE: NTS

SCALE: AS SHOWN
CONTRACT No.: -
MJ PROJ. No.: 1586.0
DATE: MARCH 2024

C-502

ZENA HOMES

UTILITY DETAILS

44 EASTWOODS DRIVE
TOWN OF WOODSTOCK, ULSTER COUNTY NY

Engineering
Architecture
Landscape Architecture
and Land Surveying, P.C.

REGISTRATION EXPIRES 03.31.2026

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL ENGINEER, OR LANDSCAPE ARCHITECT, ENGINEER FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145 SECTION 7209 AND IS A CLASS "A" MISDEMEANOR.

PROJ. MGR:	WL
DES'D BY:	AB
DRAWN BY:	AB
CHKED BY:	WL

SUBMITTAL / REVISIONS

No.	DATE	DESCRIPTION	BY	REV'D BY:	DATE
1	12/08/2025	REVISED PER TOWN COMMENTS	AB	WL	12/08/2025
2	10/16/2026	REVISED PER TOWN COMMENTS	AB	WL	10/16/2026

File Name: F:\mj1586\mj1586.01 mld - woodstock national llc\MJ1586.01_C-500.dwg (Layout: C-502)
Date: Fri, Oct 16, 2026 - 5:15 PM (Name: aborza)

SEPTIC SYSTEM GENERAL NOTES:

1. THE LIMITS OF THE SYSTEM ARE TO BE ROPED OFF PRIOR TO AND AFTER SYSTEM INSTALLATION TO PREVENT HEAVY EQUIPMENT FROM COMPACTING THE NATURAL USABLE SOIL AND/OR DAMAGE TO THE ABSORPTION TRENCHES.
2. ALL SEPTIC SYSTEMS ARE TO BE DESIGNED AND CONSTRUCTED IN COMPLIANCE WITH NYS HEALTH CODE PART 75A "WASTEWATER TREATMENT STANDARDS – INDIVIDUAL HOUSEHOLD SYSTEMS", PERTAINING TO RAISED SYSTEMS.
3. NO EXISTING WELLS, PONDS, WATER COURSES, OR WETLANDS ARE TO EXIST WITHIN 100 FT OF PROPOSED SEWAGE DISPOSAL SYSTEM.
4. NO ROOFS, FOOTINGS, FLOORS, COOLING WATER, BACKWASH DRAINS, ETC. ARE TO BE CONNECTED TO THE SEPTIC SYSTEM.
5. THE SEPTIC SYSTEM IS TO BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE SYSTEM.
6. SEDIMENT CONTROL FENCE AND/OR HAY BALE CHECK DAMS ARE TO BE INSTALLED AT THE LIMIT OF DISTURBANCE UNTIL A PERMANENT STAND OF VEGETATION IS ESTABLISHED.
7. ANY CHANGE IN CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER.
8. THE EARTH BACKFILL IS TO BE MOUNDED SLIGHTLY ABOVE THE ORIGINAL GROUND LEVEL (I.E. NOT COMPACTED) TO ALLOW FOR SETTLING. FOLLOWING SETTLEMENT, THE ENTIRE AREA HAS TO BE GRADED WITHOUT THE USE OF HEAVY EQUIPMENT AND MUST BE SEEDED WITH GRASS.

SEPTIC SYSTEM DESIGN:

1. HYDRAULIC LOADING:
   1.1. FLOW RATE = 110 GPD/BEDROOM
   1.2. DESIGN FLOW RATE,
   1.2.1. FOR 3 BEDROOM DWELLING = 330 GPD
   1.2.2. FOR 4 BEDROOM DWELLING = 440 GPD
2. BASAL AREA REQUIREMENTS: STABILIZED PERCOLOATION RATES IN THE AREA OF THE PROPOSED WASTEWATER SYSTEM WAS RANGED FROM APPROXIMATELY 60 MINUTES PER INCH. AS A RESULT THE APPLICATION RATE FOR THE SOILS SHALL BE 0.2 GALLONS/DAY/SF.
3. PERCOLATION RATE OF FILL MATERIAL: THE CONTRACTOR SHALL BE REQUIRED BY THE PLANS AND SPECIFICATIONS TO LOCATE AND SUPPLY A FILL SOURCE WHICH WILL PROVIDE AN IN PLACE, AFTER COMPACTION OR WEATHERED SETTLEMENT, STABILIZED PERCOLATION RATE OF BETWEEN 5 TO 30 MINUTES PER INCH. IT IS PREFERRED TO UTILIZE SOIL WITH 8 TO 10 MINUTES PER INCH. ANY MATERIAL NOT WITHIN THE SPECIFICATION SHALL BE REMOVED AND REPLACED AT THE SOLE EXPENSE OF THE CONTRACTOR. FILL MATERIAL SHALL BE LESS THAN 10% BY WEIGHT (200 SIEVE), LESS THAN 15% BY WEIGHT (¾ IN SIEVE) AND AT LEAST 25% BY WEIGHT (#35 SIEVE TO #10 SIEVE). EFFECTIVE GRAIN SIZE 0.15–03. MM AND UNIFORMITY COEFFICIENT 4–6.
4. LENGTH OF ABSORPTION TRENCHES:
   4.1. PROPOSED TRENCH WIDTH = 2 FT
   4.2. BASAL AREA,
   4.2.1. FOR 3 BEDROOM DWELLING = 1,650 SF PER TABLE 9
   4.2.2. FOR 4 BEDROOM DWELLING = 2,200 SF PER TABLE 9
   4.3. LATERAL LENGTH,
   4.3.1. FOR 3 BEDROOM DWELLING = 5 @ 55 FT PER TABLE 6A
   4.3.2. FOR 4 BEDROOM DWELLING = 7 @ 53 FT PER TABLE 6A

FILL PLACEMENT AND STABILIZATION:

1. MOVE FILL MATERIAL INTO PLACE WITH A SMALL TRACK–TYPE TRACTOR WITH A BLADE. ALWAYS KEEP A MINIMUM OF 6 IN. OF MATERIAL BENEATH THE TRACKS OF THE TRACTOR TO MINIMIZE COMPACTION OF NATURAL SOIL.
2. STABILIZE FILL SHALL HAVE A PERCOLATION RATE OF 15 TO 30 MIN./IN.
3. FILL MATERIAL SHALL BE STABILIZED THROUGH EITHER NATURAL SETTLEMENT OR MECHANICAL MEANS. THE SPECIFIC REQUIREMENTS FOR EACH METHOD ARE AS FOLLOWS:
   3.1. NATURAL SETTLEMENT – AFTER PLACEMENT OF FILL MATERIAL IN ACCORDANCE WITH THE GENERAL REQUIREMENTS NOTED ABOVE, MATERIAL SHALL SETTLE NATURALLY FOR A PERIOD OF AT LEAST 6 MONTHS INCLUDING ONE FREEZE THAW CYCLE. ENGINEER TO PERFORM PERCOLATION TEST WITHIN STABILIZED FILL TO VERIFY CONFORMANCE WITH SPECIFICATION.
   3.2. MECHANICAL METHOD – FILL SPECIFICATIONS: FILL MATERIAL SHALL HAVE LESS THAN TEN PERCENT BY WEIGHT FINER THAN NO. 200 SIEVE. CONTRACTOR SHALL SUBMIT SIEVE ANALYSIS RESULTS TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF FILL MATERIAL.
4. PLACEMENT OF COMPACTION: PLACEMENT AND COMPACTION OF FILL MATERIAL SHALL BE WITNESSED BY THE ENGINEER.
5. THE STRUCTURE OF NATIVE MATERIAL BENEATH THE SYSTEM SHALL BE PROTECTED FROM DAMAGE FROM TRUCKS OR MACHINERY.
6. FILL MATERIAL SHALL BE PLACED AND COMPACTED IN LIFTS. EACH LIFT SHALL BE SIX INCHES (LOOSE) LIFTS UP TO THE REQUIRED FILL HEIGHT.
7. ENGINEER TO PERFORM PERCOLATION TESTS IN COMPACTED FILL MATERIAL TO VERIFY CONFORMANCE WITH SPECIFICATIONS.

AS-BUILT DRAWINGS:

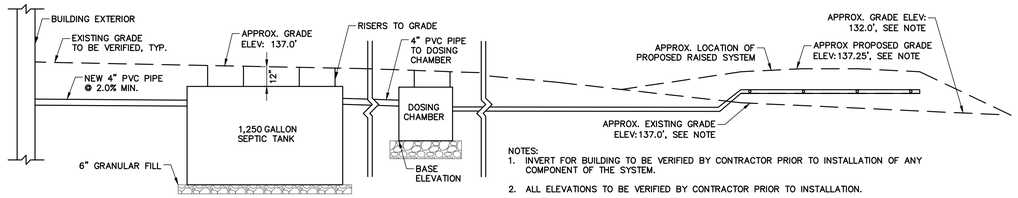
1. CONTRACTOR SHALL PROVIDE AS BUILT DRAWINGS SHOWING ALL DIMENSIONS NECESSARY TO LOCATE BURIED STRUCTURE(S) IN THE FUTURE. CONTRACTOR CAN NEATLY DRAW DIMENSIONS ON A COPY OF THESE PLANS AND SUBMIT THEM TO THE OWNER. DIMENSIONS SHALL INCLUDE TIES FROM EXISTING STRUCTURE(S) TO THE FOLLOWING: SEPTIC TANK ACCESS HATCH(ES) DISTRIBUTION BOX(ES) BOTH ENDS OF EACH LATERAL.

RAISED SYSTEM DATA:

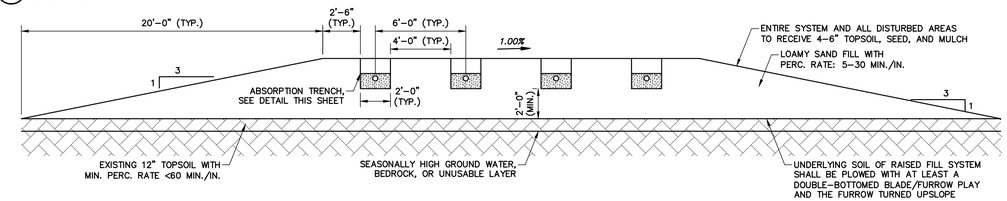
1. SEPTIC TANK: TO BE 1,250 GALLON SEAMLESS DUAL COMPARTMENT PRECAST STRUCTURE BY FORT MILLER
2. BUILDING TO SEPTIC TANK: 4" PVC SCHEDULE 40 WITH TIGHT JOINTS, MIN. SLOPE ¼ IN. PER FOOT

INSPECTION SCHEDULE:

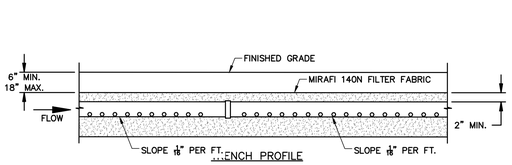
1. INSPECTION #1: UPON COMPLETION OF GROUND PREPARATION FOR MOUND SYSTEM AND PRIOR TO PLACEMENT NOTE: IF FILL STABILIZATION IS TO BE ACHIEVED BY MECHANICAL COMPACTION METHOD CONTRACTOR SHALL SUBMIT A COPY OF THE SIEVE ANALYSIS OF FILL MATERIAL.
2. INSPECTION #2: INSPECTION OF FILL MATERIAL
   2.1. NATURAL SETTLEMENT METHOD: AFTER NATURAL STABILIZATION PERIOD INCLUDING PERC TESTS
   2.2. MECHANICAL COMPACTION METHOD: ENGINEER SHALL WITNESS PLACEMENT AND COMPACTION OF FILL AND PERC TESTS
3. INSPECTION #3: UPON COMPLETION OF INSTALLING TRENCHES, PIPING, TANKS, PUMP/ALARM PRIOR TO BACKFILLING. FACILITIES TO BE INSTALLED FOR INSPECTION INCLUDE THE FOLLOWING:
   3.1. APPROVED FILL MATERIAL IN PLACE INCLUDING ABSORPTION TRENCHES
   3.2. ALL PIPING AND TANKS INSTALLED INCLUDING PUMP/ALARM. PUMP AND ALARM TO BE OPERABLE. CONTRACTOR TO PROVIDE ADEQUATE VOLUME OF WATER TO TEST PUMP/ALARM TO VERIFY DOSE VOLUME.
4. INSPECTION #4: UPON COMPLETION OF FINAL GRADING INCLUDING PLACEMENT OF TOPSOIL AND FINAL SEEDING.
5. THE OWNER IS RESPONSIBLE FOR NOTIFYING THE ENGINEER A MINIMUM OF 24 HOURS IN ADVANCE OF EACH REQUIRED INSPECTION. IF WORK COMMENCES WITHOUT NOTED INSPECTIONS, THE ENGINEER WILL NOT BE ABLE TO CERTIFY THE SYSTEM AS–BUILT PER PLAN AND THE VILLAGE WILL NOT BE ABLE TO GRANT A CERTIFICATION OF OCCUPANCY (C.O.)

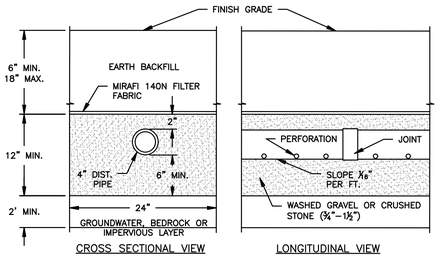


1 DISPOSAL FIELD PROFILE SCHEMATIC
SCALE: N.T.S.

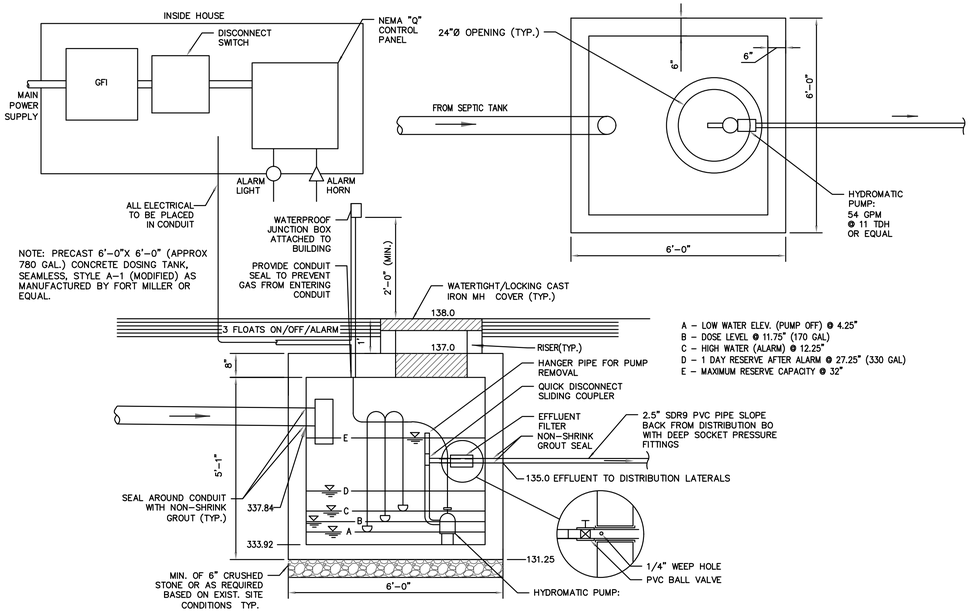


2 TYPICAL RAISED SYSTEM W/ ABSORPTION TRENCH SECTION
SCALE: N.T.S.

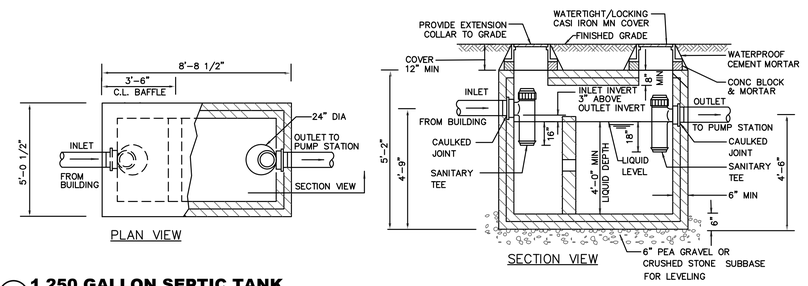




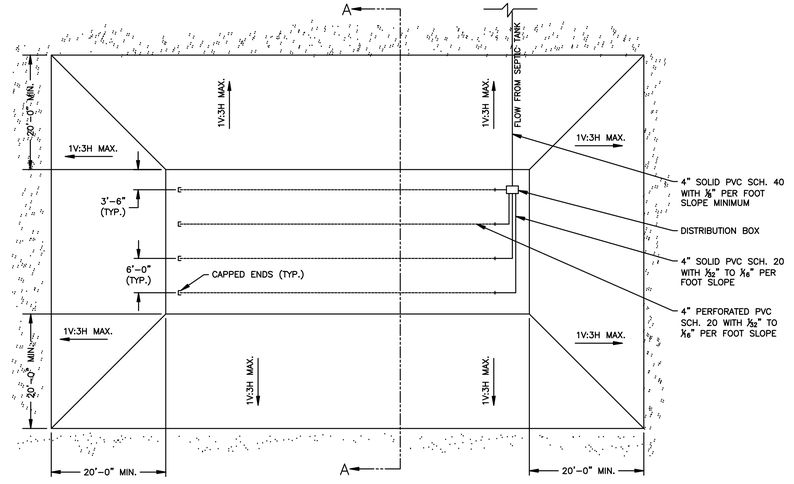
3 TYPICAL RAISED SYSTEM ABSORPTION TRENCH
SCALE: N.T.S.



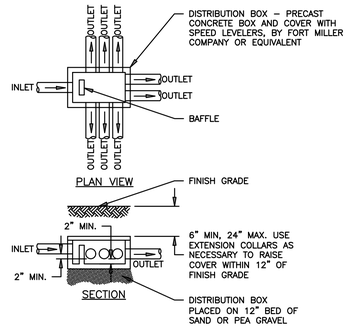
4 DOSING CHAMBER
SCALE: N.T.S.



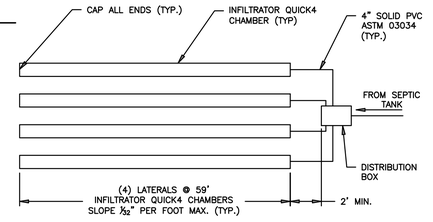
5 1,250 GALLON SEPTIC TANK
SCALE: N.T.S.



6 TYPICAL RAISED SYSTEM - PLAN VIEW
SCALE: N.T.S.



7 PRECAST DISTRIBUTION BOX
SCALE: N.T.S.



TYPICAL ABSORPTION FIELD
(CONVENTIONAL AND SHALLOW TRENCH)

6 TYPICAL ABSORPTION FIELD
SCALE: NTS

SCALE: AS SHOWN
CONTRACT No.: -
MJ PROJ. No.: 1586.0
DATE: MARCH 2024

C-503

ZENA HOMES

UTILITY DETAILS

44 EASTWOODS DRIVE
TOWN OF WOODSTOCK, ULSTER COUNTY NY

Engineering
Architecture
Landscape Architecture
and Land Surveying, P.C.

THE ALTERATION OF THIS MATERIAL IN ANY WAY; UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL ENGINEER, ARCHITECT, OR LANDSCAPE ARCHITECT, ENGINEER OR LANDSCAPE ARCHITECT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND IS A CLASS "A" MISDEMEANOR.

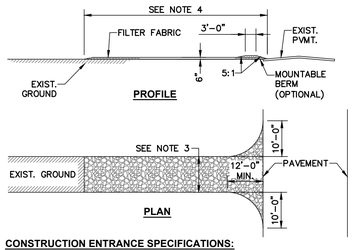
REGISTRATION EXPIRES 10/31/2026

PROJ. MGR:	WL
DES'D BY:	AB
DRAWN BY:	AB
CHK'ED BY:	WL

SUBMITTAL / REVISIONS

No.	DATE	DESCRIPTION	BY	REV'D BY:	DATE
1	12/08/2025	REVISED PER TOWN COMMENTS	AB	WL	12/08/2025
2	10/16/2026	REVISED PER TOWN COMMENTS	AB	WL	10/16/2026

File Name: F:\mj1586\mj1586.01 mld - woodstock national llc\MJ1586.01_C-500.dwg (Layout: C-503)
Date: Fri, Oct 16, 2026 - 5:15 PM (Name: aborza)

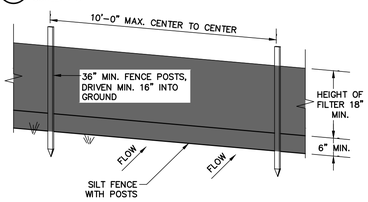


CONSTRUCTION ENTRANCE SPECIFICATIONS:

1. STONE SIZE – USE MIN 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. THICKNESS – NOT LESS THAN 6".
3. WIDTH – 12 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS, 24' IF SINGLE ENTRANCE TO SITE.
4. LENGTH – NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
5. FILTER FABRIC – PLACE OVER ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – PIPE ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES IS PERMITTED.
7. MAINTENANCE – MAINTAIN THE ENTRANCE IN A CONDITION WHICH PREVENTS 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 CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING – CLEAN WHEELS TO REMOVE SEDIMENT PRIOR TO ENTERING ONTO PUBLIC RIGHT-OF-WAY. WASH IN AN AREA STABILIZED WITH STONE THAT DRAINS TO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. INSPECT ENTRANCE PERIODICALLY AND AFTER EACH RAIN.

1 STABILIZED CONSTRUCTION ENTRANCE

SCALE: NTS

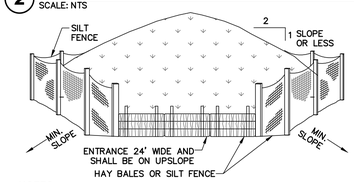


NOTES:

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAX. MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIALS REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
5. MAXIMUM DRAINAGE AREA FOR OVERLAND FLOW TO A SILT FENCE SHALL NOT EXCEED 1/4 ACRE PER 100' OF FENCE.
6. SILT FENCE SHALL BE USED WHERE EROSION COULD OCCUR IN THE FORM OF SHEET EROSION.
7. SILT FENCE SHALL NOT BE USED WHEN A CONCENTRATION OF WATER IS FLOWING TO THE BARRIER.

2 SILT FENCE INSTALLATION

SCALE: NTS

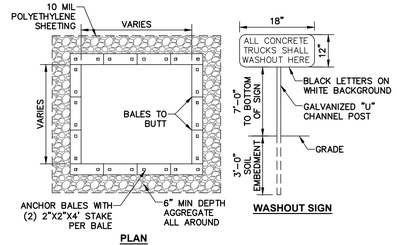


NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2 HORIZ ON 1 VERT.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR HAY BALES, THEN STABILIZED WITH VEGETATION OR COVERED.

3 TEMPORARY SOIL STOCKPILE

SCALE: NTS

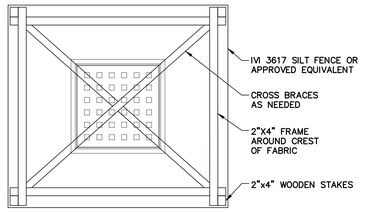


NOTES:

1. CONTAINMENT MUST BE STRUCTURALLY SOUND, LEAK FREE AND CONTAIN ALL LIQUID WASTES.
2. CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY CONTAIN THE LIQUID WASTE GENERATED.
3. WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 75% FULL.
4. WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
5. ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
6. WASHOUT SIGN SHALL BE PLACED IN A PROMINENT LOCATION AT WASHOUT AREA
7. REMOVE ACCUMULATION OF SAND AND AGGREGATE AT A MINIMUM OF ONCE A WEEK AND DISPOSE OF PROPERLY.

4 CONCRETE WASHOUT AREA

SCALE: NTS

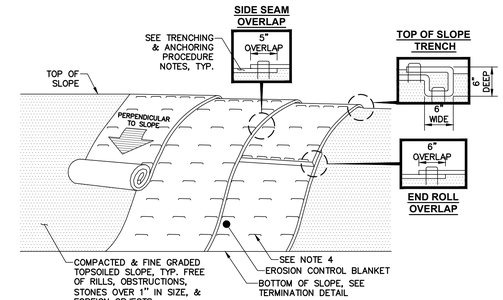


NOTES:

1. FILTER FABRIC SHALL HAVE AN EOS OF 40–85.
2. CUT FABRIC FROM CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED, OVERLAP TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2"x4" WOOD OR EQUIVALENT, WITH A MINIMUM LENGTH OF 3'.
4. SPACE STAKES EVENLY AROUND INLET 3' APART AND DRIVE MINIMUM 18" DEEP. SPANS GREATER THAN 3' MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2"x4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVERFLOW STABILITY.
7. MAXIMUM DRAINAGE AREA IS 1 ACRE.
8. INLET PROTECTION SHALL REMAIN IN–PLACE UNTIL SITE HAS BEEN STABILIZED.

5 TEMPORARY OUT-OF-PAVEMENT FILTER FABRIC INLET PROTECTION

SCALE: NTS



GENERAL NOTES:

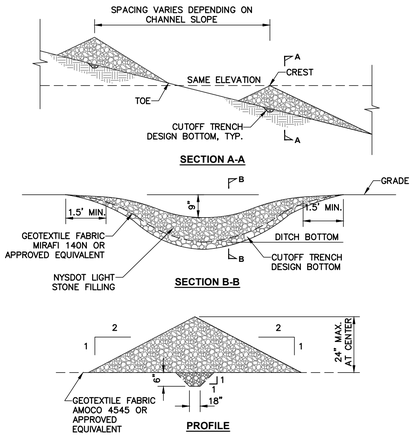
1. PREPARE THE TOPSOIL (SEEDBED) FIRST BY RAKING, SHAPING, FINE GRADING, COMPACTING, SEEDING & FERTILIZING THE SLOPES.
2. USE THE TRENCHING & ANCHORING PROCEDURES DETAILED HEREIN TO SECURE ANY EXPOSED MATERIAL ENDS. OVERLAP IN THE DIRECTION OF WATER FLOW, PERPENDICULAR TO THE SLOPE. SECURE ALL PRODUCT OVERLAPS.
3. KEEP EROSION CONTROL BLANKET IN SOLID CONTACT WITH TOPSOIL.
4. USE THE REQUIRED NUMBER OF STAPLES/STAKES TO SECURELY FASTEN THE EROSION CONTROL BLANKET TO THE SLOPE. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE/STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY FOR PROPER SECURING. STAPLE PATTERNS & OVERLAPS ARE DEPENDENT ON SITE CONDITIONS & MANUFACTURER'S REQUIREMENTS. CONTRACTOR MUST CONSULT WITH MANUFACTURER FOR ACTUAL SITE SPECIFIC REQUIREMENTS.

TRENCHING & ANCHORING PROCEDURE NOTES:

1. SIDE SEAM OVERLAP – STAPLE EDGES OF PARALLEL BLANKETS WITH A 5" OVERLAP.
2. TOP OF SLOPE TRENCH – BEGIN AT THE TOP OF SLOPE BY ANCHORING THE EROSION CONTROL BLANKET IN A 6" DEEP x 6" WIDE TRENCH WITH A 12" OVERLAP EXTENDED BEYOND THE UP–SLOPE PORTION OF THE TRENCH. ANCHOR WITH A ROW OF STAPLES/STAKES 12" O.C. IN THE BOTTOM OF THE TRENCH. BACKFILL & COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO THE COMPACTED SOIL & FOLD THE REMAINING 12" PORTION OF THE EROSION CONTROL BLANKET BACK OVER THE SEED & COMPACTED SOIL. SECURE THE EROSION CONTROL BLANKET OVER THE COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED 12" O.C. ACROSS THE ENTIRE WIDTH.
3. END ROLL OVERLAP – CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE SHALL BE PLACED END OVER END (SHINGLE–STYLE) WITH A 6" OVERLAP. STAPLE THRU OVERLAPPED AREAS. PLACE STAKES/STAPLES 12" APART ACROSS THE ENTIRE WIDTH.

6 EROSION CONTROL BLANKET INSTALLATION

SCALE: NTS

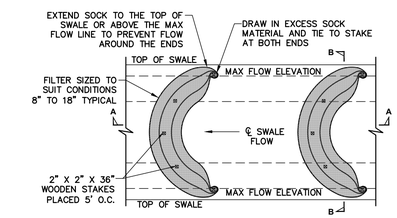


CONSTRUCTION SPECIFICATIONS:

1. STONE SHALL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN ON THE PLAN.
2. SET SPACING OF CHECK DAMS SUCH THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM ARE AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAM ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
6. MAXIMUM DRAINAGE AREA IS 2 ACRES.

7 STONE CHECK DAM

SCALE: NTS

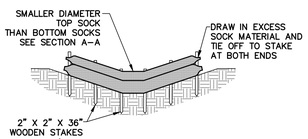


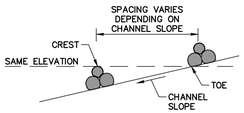
PREFABRICATED CHECK DAM PLACEMENT INTERVAL	
DITCH SLOPE	PLACEMENT INTERVAL**
1%	100'
2%	50'
3%	25'
4%	20'
5%	15'

** BASED ON 2' TYPICAL HEIGHT

NOTES:

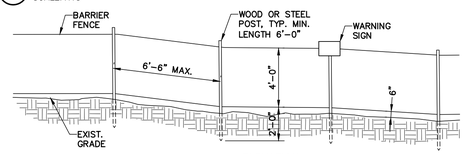
1. BASIS OF DESIGN: FILTREXX "FILTER SOXX" OR APPROVED EQUAL
2. MAXIMUM DRAINAGE AREA FOR OVERLAND FLOW TO A CHECK DAM IS 2 ACRES OR LESS.
3. REMOVE SEDIMENT BEHIND CHECK DAM ONCE THE ACCUMULATED HEIGHT REACHES 1/2 THE HEIGHT OF THE CHECK DAM.
4. SEED CHECK DAM AT THE TIME OF INSTALLATION. IF TEMPORARY, REMOVE SEDIMENTS AND CHECK DAM AT COMPLETION OF PROJECT.

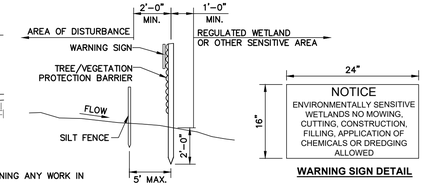




8 PRE-FABRICATED CHECK DAM

SCALE: NTS



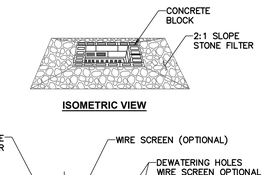


NOTES:

1. INSTALL WETLAND PROTECTION BARRIER IN LOCATIONS SHOWN ON THE PLANS PRIOR TO BEGINNING ANY WORK IN THESE AREAS.
2. INSTALL AT BEGINNING OF CONTRACT, AND MAINTAIN THROUGHOUT ITS DURATION, THE WETLAND PROTECTION BARRIER AROUND THE EXISTING WETLAND AREAS/STREAM COURSE AREAS AS SHOWN. DO NOT DISTURB EXISTING WETLAND AREAS/STREAM COURSE AREAS WITHIN THE FENCED AREAS.
3. INSTALL FENCE USING HAND TOOLS ONLY.
4. INSTALL WARNING SIGNS AT A MAXIMUM OF EVERY 4TH POST.

9 ENVIRONMENTALLY SENSITIVE AREA PROTECTION FENCE

SCALE: NTS

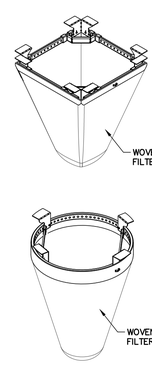


NOTES:

1. LAY 1 BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING PROVIDE 2" MINIMUM FOUNDATION BELOW REST OF INLET AND PLACE BLOCKS AGAINST INLET FOR SUPPORT.
2. PLACE HARDWARE CLOTH OR 1/2" WIRE MESH OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 1/2"–3/4" IN DIAMETER PLACED 2" BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, PLACE A 1' THICK LAYER OF FILTER STONE AGAINST THE GRAVEL AS SHOWN ON THE DRAWINGS.
5. MAXIMUM DRAINAGE AREA IS 1 ACRE.

10 IN-PAVEMENT STONE AND BLOCK DROP INLET PROTECTION

SCALE: NTS



SQUARE/RECTANGULAR INLET FILTER	
CLEAR OPENING SIZE	MINIMUM BYPASS FLOW RATE (CFS)
SMALL: UP TO 64" PERIMETER	2.4
MEDIUM: 97"–120" PERIMETER	3.5
LARGE: 121" OR GREATER PERIMETER	5.0

ROUND INLET FILTER	
CLEAR OPENING SIZE	MINIMUM BYPASS FLOW RATE
SMALL: 10"–16"	1.6000
MEDIUM: 17"–24"	2.7000
LARGE: 25"–36"	3.8000

NOTES:

1. BASIS OF DESIGN: ADS "FLEXSTORM CATCH–IT" OR APPROVED EQUAL.
2. INSPECT FILTER AFTER RAIN EVENTS GREATER THAN 1/2" AND AT A MINIMUM OF THREE MONTH INTERVALS.

11 TEMPORARY INLET FILTER

SCALE: NTS

SCALE: AS SHOWN
CONTRACT No.: -
MJ PROJ. No.: 1586.0
DATE: MARCH 2024

C-504

ZENA HOMES

EROSION AND SEDIMENT CONTROL DETAILS

44 EASTWOODS DRIVE
TOWN OF WOODSTOCK, ULSTER COUNTY NY

Engineering
Architecture
Landscape Architecture
and Land Surveying, P.C.

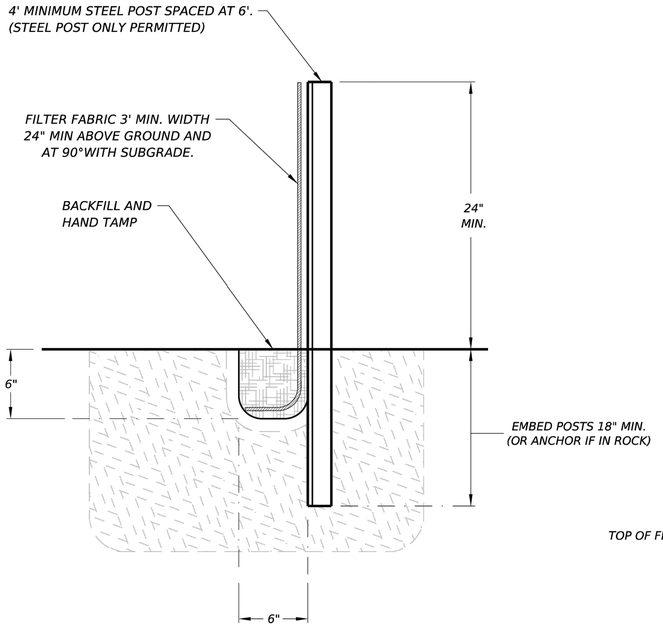
REGISTRATION EXPIRES 10-31-2026

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL ENGINEER, IS A VIOLATION FOR AN ARCHITECT, ENGINEER OR LANDSCAPE ARCHITECT TO ALTER THE WORK OF ANOTHER ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145 SECTION 7209 AND IS A CLASS "A" MISDEMEANOR.

PROJ. MGR:	WL
DES'D BY:	AB
DRAWN BY:	AB
CHK'ED BY:	WL

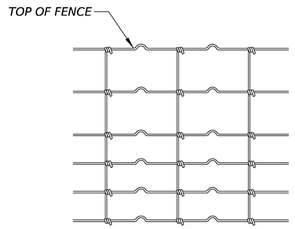
SUBMITTAL / REVISIONS

No.	DATE	DESCRIPTION	BY	REV'D BY:	DATE
1	12/08/2025	REVISED PER TOWN COMMENTS	AB	WL	12/08/2025
2	10/16/2026	REVISED PER TOWN COMMENTS	AB	WL	10/16/2026



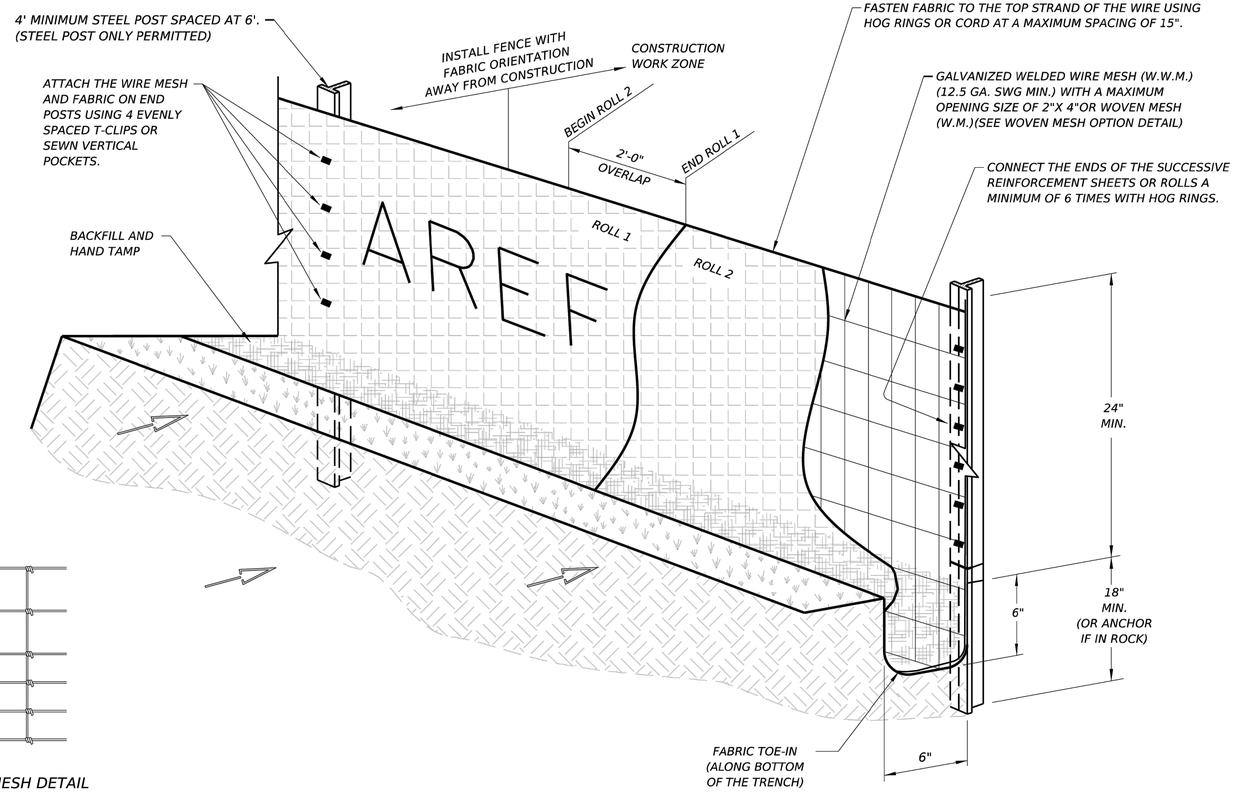
TRENCH SIDE VIEW DETAIL

FABRIC TOE-IN IS TO RUN DOWN THE TRENCH AND ALONG THE BOTTOM OF THE TRENCH



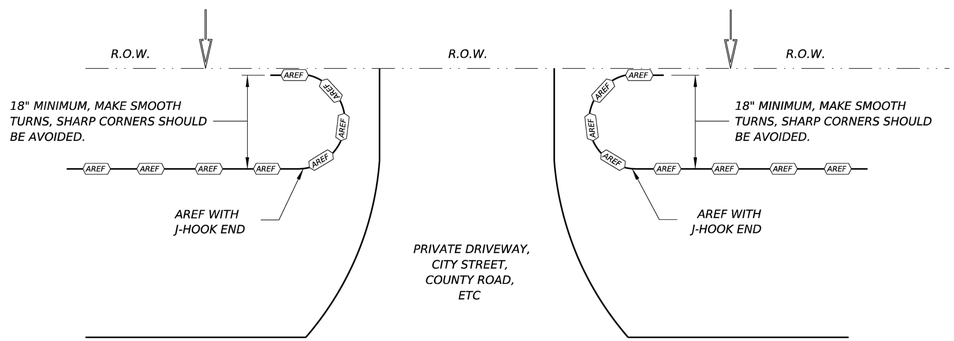
HINGE JOINT KNOT WOVEN MESH DETAIL

GALVANIZED HINGE JOINT KNOT WOVEN MESH (12.5 GA.SWG MIN.) REQUIRES A MINIMUM OF FIVE HORIZONTAL WIRES SPACED AT A MAXIMUM OF 12 INCHES APART AND ALL VERTICAL WIRES SPACED AT A MAXIMUM OF 12 INCHES APART.



GENERAL NOTES

1. REMOVE ALL ROOTS AND OTHER OBSTRUCTIONS FROM THE TRENCH BEFORE FABRIC PLACEMENT.
2. AMPHIBIAN AND REPTILE EXCLUSION FENCE MUST BE CHECKED DAILY, INCLUDING DAYS DURING RAINFALL SHUTDOWN PERIODS.
3. ANY DAMAGE TO FENCE, INCLUDING SMALL HOLES, MUST BE REPAIRED THE DAY IT IS OBSERVED BEFORE DARK.
4. SMALL HOLES (WITH THE ENGINEER'S DISCRETION) MAY BE REPAIRED WITH TAPE AS DIRECTED BY THE ENGINEER.
5. AS DIRECTED BY THE ENGINEER, SECTIONS OF FENCE WHERE THE DAMAGE IS DEEMED DETRIMENTAL TO THE FENCE WILL BE REPLACED RATHER THAN REPAIRED.
6. A MINIMUM OF 2' SHOULD BE OVERLAPPED WHEN JOINING FABRIC SECTIONS.
7. PAINT "AREF" OR "TEF" ON THE FABRIC IN BRIGHT COLOR EVERY 50' AND AT BREAKS.
8. REMOVE SEDIMENT, VEGETATION, OR OTHER DEBRIS TO MAINTAIN THE 24" AREF CLEARANCE.
9. FOR PAYMENT AND ADDITIONAL INFORMATION FOR AREF, SEE SPEC. 5116 (AMPHIBIAN AND REPTILE EXCLUSION FENCE).



J-HOOK END OF FENCE DETAIL (TOP VIEW)

TRENCH IS TO STAY 6 IN DEEP AND 6 IN WIDE WITH FABRIC TOE-IN TO MATCH TRENCH DETAIL.

J-HOOK APPLIES AT DRIVEWAY BREAKS, ROADWAY BREAKS, AND AT ANY LOCATION AS DIRECTED BY THE ENGINEER.

1 AMPHIBIAN AND REPTILE EXCLUSION FENCE

SCALE: NTS

SCALE: AS SHOWN
CONTRACT No.: -
MJ PROJ. No.: 1586.01
DATE: MARCH 2024

C-505

ZENA HOMES

EROSION AND SEDIMENT CONTROL DETAILS

44 EASTWOODS DRIVE
TOWN OF WOODSTOCK, ULSTER COUNTY NY

Engineering
Architecture
Landscape Architecture
and Land Surveying, P.C.

REGISTRATION EXPIRES 10/31/2025

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL (E.G. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER, OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND IS A CLASS "A" MISDEMEANOR.

PROJ. MGR:	WL
DESD BY:	AB
DRAWN BY:	AB
CHKED BY:	WL

SUBMITTAL / REVISIONS

No.	DATE	DESCRIPTION	BY	REV'D BY:	DATE
	12/08/2025	REVISED PER TOWN COMMENTS	AB	WL	12/08/2025
	10/016/2026	REVISED PER TOWN COMMENTS	AB	WL	10/16/2026