



Town of Watertown Connecticut

Planning and Zoning, Zoning Board of Appeals,
Conservation Commission/Inland Wetland Agency

Watertown Municipal Center

61 Echo Lake Road

Watertown, CT 06795

Telephone: (860) 945-5266

Website: www.watertownct.org

SITE PLAN APPROVAL (SA) / SPECIAL PERMIT (SP)

Applicant Information

Name: Echo Asset, LLC

Address: P.O. Box 571

Bethlehem, CT 06751

Email: scott@thesambrookgroup.com Phone #: 203-560-6716

Print Name: Scott Sambrook - Owner

Signature of Applicant:  Date: December 17, 2025

Owner Information

Name: Same as above

Address: _____

Email: _____ Phone #: _____

Print Name: _____

Signature of Owner: _____ Date: December 17, 2025

Location of Property:

Address: Echo Lake Road Subdivision - LOT 1 MBL: 104-90-23A

Zone IG-80 Non-conforming? Yes No Map 104 Block 90 Lot 23A

Description of Existing Use/ Property

Type Of Use Vacant Land - Wooded & Sloping to wetland/watercourse at bottom of hill

Size of Property: 10.67 ac.

Number of Buildings/ Sq Ft approximately: Zero

Number of parking spaces: Zero

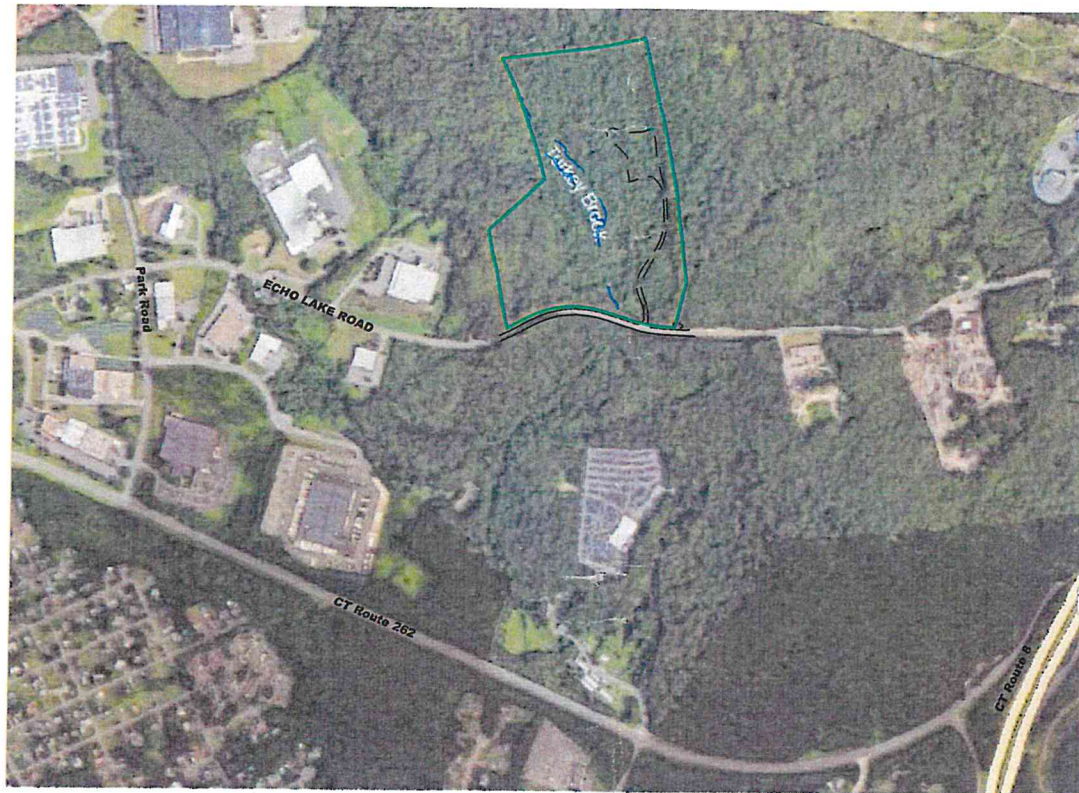
Other important features: _____

Signage (# of signs & square feet) provide a cut sheet or sketch: N/A

ECHO LAKE ROAD

SUBDIVISION PERMITTING PLAN SET - NOT FOR CONSTRUCTION

MBL: 104-90-23A



OWNER/APPLICANT

ECHO ASSET, LLC
PO BOX 571
BETHLEHEM, CT

SURVEYOR

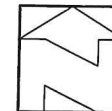
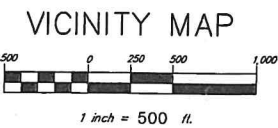
ALL SEASONS LAND SURVEYING
31 WEST DAYTON HILL ROAD
WALLINGFORD, CT

ENVIRONMENTAL CONSULTANT

IAN T. COLE, LLC
P.O. BOX 619
MIDDLETOWN, CT

ENGINEER

CIVIL 1
43 SHERMAN HILL ROAD, SUITE D-101
WOODBURY, CT



SHEET NO.	DESCRIPTION
-	COVER SHEET
-	ZONING LOCATION SURVEY
C 1.0	EXISTING CONDITIONS
C 2.0	SUBDIVISION AND SITE LAYOUT PLAN
C 2.1	LOT 1 SITE LAYOUT PLAN
C 2.2	LOT 1 GRADING & DRAINAGE PLAN
C 2.3	LOT 1 UTILITY PLAN
C 2.4	LOT 1 EROSION CONTROL PLAN
C 2.5	LOT 1 REFERENCE PLAN
C 3.1	LOT 1 SUBSURFACE SEWAGE DISPOSAL SYSTEM DESIGN AND PROFILES
C 3.2	LOT 1 SUBSURFACE SEWAGE DISPOSAL SYSTEM DETAILS AND NOTES
C 4.1	LOT 1 DRIVEWAY PROFILE
C 4.2	LOT 1 STORM DRAINAGE PROFILES
C 5.1	DETAILS
C 5.2	DETAILS
C 5.3	CULTEC DETAILS
C 5.4	WATER SERVICE DETAILS
C 6.1	LOT 1 EROSION CONTROL NARRATIVE & PROJECT NOTES

APPROVED BY THE WATERTOWN INLAND WETLANDS/CONSERVATION COMMISSION

Chairman/Secretary _____ Date _____

APPROVED BY THE WATERTOWN PLANNING & ZONING COMMISSION

Chairman/Secretary _____ Date _____

APPROVED BY THE WATERTOWN TOWN ATTORNEY

Town Attorney _____ Date _____

APPROVED BY THE TORRINGTON AREA HEALTH DISTRICT

OFFICER _____ Date _____

APPROVED BY THE DIRECTOR OF PUBLIC WORKS/TOWN ENGINEER
TOWN OF WATERTOWN

Director _____ Date _____

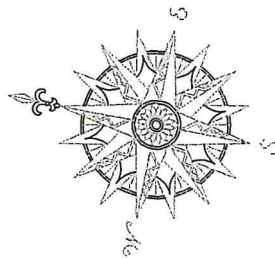
NOTE: ADDITIONAL IMPROVEMENTS AND/OR MODIFICATIONS MAY BE REQUIRED
BY THE DIRECTOR OF PUBLIC WORKS/TOWN ENGINEER IF FIELD CONDITIONS WARRANT.



CORNERSTONE PROFESSIONAL PARK, SUITE D-101
43 SHERMAN HILL ROAD
WOODBURY CONNECTICUT
(203) 266-0778



AUGUST 1, 2025
REVISED DECEMBER 17, 2025

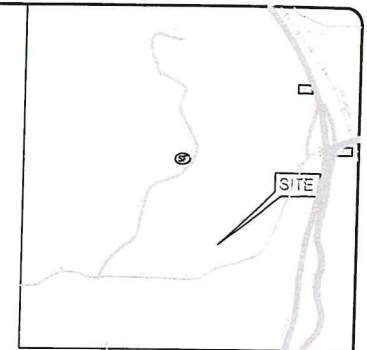


NOTES:

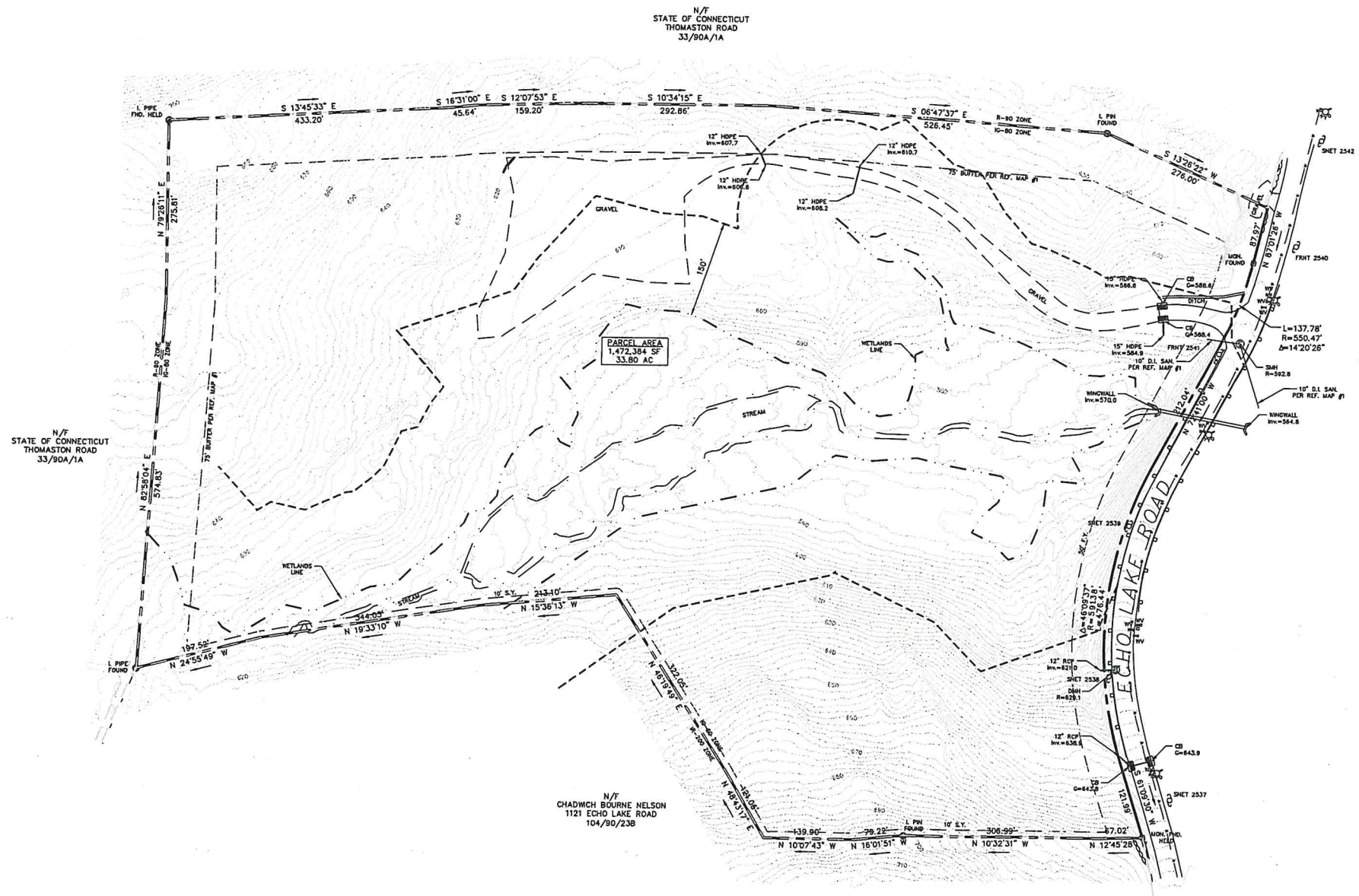
1. THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300B-1 THROUGH 20-300B-20, AS REVISED.
2. THE TYPE OF SURVEY PERFORMED IS A ZONING LOCATION SURVEY.
3. THE BOUNDARY DETERMINATION CATEGORY IS RESURVEY.
4. THIS MAP CONFORMS TO HORIZONTAL ACCURACY CLASS A-2.
5. THIS MAP CONFORMS TO VERTICAL ACCURACY CLASS V-2.
6. THIS MAP CONFORMS TO TOPOGRAPHIC ACCURACY CLASS T-2. TOPOGRAPHY DEPICTED IS TAKEN FROM LIDAR TOPOGRAPHY.
7. BEARINGS ON THIS MAP ARE BASED ON THE CONNECTICUT STATE PLANE COORDINATE SYSTEM N.A.D. 1983.
8. ELEVATIONS ON THIS MAP ARE BASED ON NAVD 88 DATUM.
9. THE UNDERGROUND UTILITIES SHOWN ON THIS MAP HAVE BEEN LOCATED BOTH FROM FIELD SURVEY INFORMATION AND FROM EXISTING DRAWINGS NOTED HEREON. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES ON THIS MAP, EITHER CURRENT OR ABANDONED UTILITIES SHOWN ON THIS MAP.
10. THIS PARCEL IS KNOWN AS BLOCK 90 LOT 23A ON ASSESSOR'S MAP 104.
11. WETLANDS DEPICTED ON THIS PLAN WERE TAKEN FROM REF. MAP #1.

MAP REFERENCES:

1. "IMPROVEMENT LOCATION MAP FOR THE SAMBROOK GROUP ECHO LAKE RD, WATERTOWN, CT." SCALE: 1"=60' AUG. 4, 2021 BY: KRATZERT, JONES & ASSOCIATES, INC.
2. "MAP OF PROPERTY PREPARED FOR INDUSTRIAL DEVELOPMENT GROUP ECHO LAKE ROAD WATERTOWN, CONNECTICUT" SCALE: 1"=60' JULY 25, 1996 W.L.R. #3308
3. "MAP PREPARED FOR THE SELTZER ORGANIZATION ECHO LAKE ROAD WATERTOWN, CONNECTICUT" SCALE: 1"=100' OCT. 14, 1986 W.L.R. #2520
4. "MAP OF PROPERTY OF ESTATE OF PETER B. CURA ECHO LAKE ROAD WATERTOWN, CT" SCALE: 1"=60' MAR. 31, 1977 W.L.R. #2305



LOCATION MAP
NTS



WATERTOWN ZONING TABLE (IG-80 DISTRICT)		
STANDARDS	REQUIRED	EXISTING
MINIMUM LOT AREA	80,000 SF	1,472,384 SF
MIN. FRONTAGE	50'	1,036.22'
MAX. FLOOR AREA RATIO	0.5	-
MAXIMUM HEIGHT	60'	-
MAXIMUM STORIES	4	-
BLDG. SETBACKS:		
FRONT YARD:	50'	-
SIDE YARD:	10' / 50*	-
REAR YARD:	50*	-
MAXIMUM LOT COVERAGE	80 %	-
MAXIMUM BUILDING COV.	40 %	-

*ABUTTING A RESIDENTIAL ZONE

LEGEND

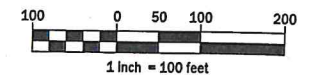
	PROPERTY LINE
	EXISTING CENTER LINE
	EXISTING DRIVEWAY
	WETLAND LINE
	100' WETLAND REGULATED AREA
	EXISTING UTILITY LINE
	UTILITY LINE
	EXISTING STREET WALL
	EXISTING STONE WALL
	EXISTING CONCRETE WALL
	EXISTING UTILITY STRUCTURE
	EXISTING FENCE
	STORM DRAINAGE STRUCTURE
	CATCH BASIN
	SANITARY SEWER STRUCTURE
	UTILITY POLE
	MANHOLE
	IRON SPIKE

ZONING LOCATION SURVEY
PREPARED FOR
THE SAMBROOK GROUP
MBL 104-90-23A ECHO LAKE ROAD
WATERTOWN, CONNECTICUT

COPYRIGHT © 2025
SCALE: 1" = 100'
REVISOR: FEBRUARY 26, 2025 - REVISED WETLAND SETBACK
SEPTEMBER 25, 2025 - REVISE ZONING TABLE
PROJ. NO.: 1014

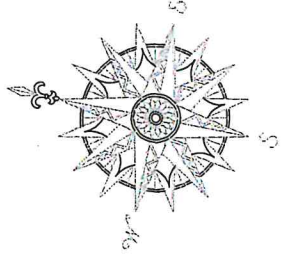


LAND SURVEYING - LAND PLANNING
44 Fair Street
Wallington, CT 06492
1 John Street
Millerton, NY 12546
Phone: (860) 274-5053
dan@allseasonslandsurveying.com
allseasonslandsurveying.com



TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP AND SURVEY ARE SUBSTANTIALLY CORRECT AS NOTED HEREON.
THIS MAP IS NOT VALID UNLESS IT BEARS THE LIVE SIGNATURE AND SEAL OF THE UNDERSIGNED LAND SURVEYOR.

DANIEL C. LAFERRIERE
LICENSED LAND SURVEYOR, REG# 70492

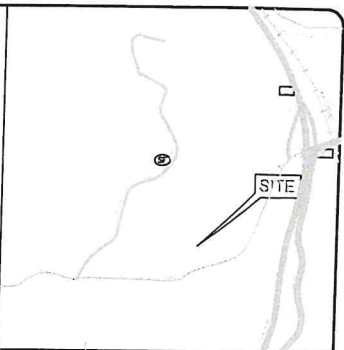


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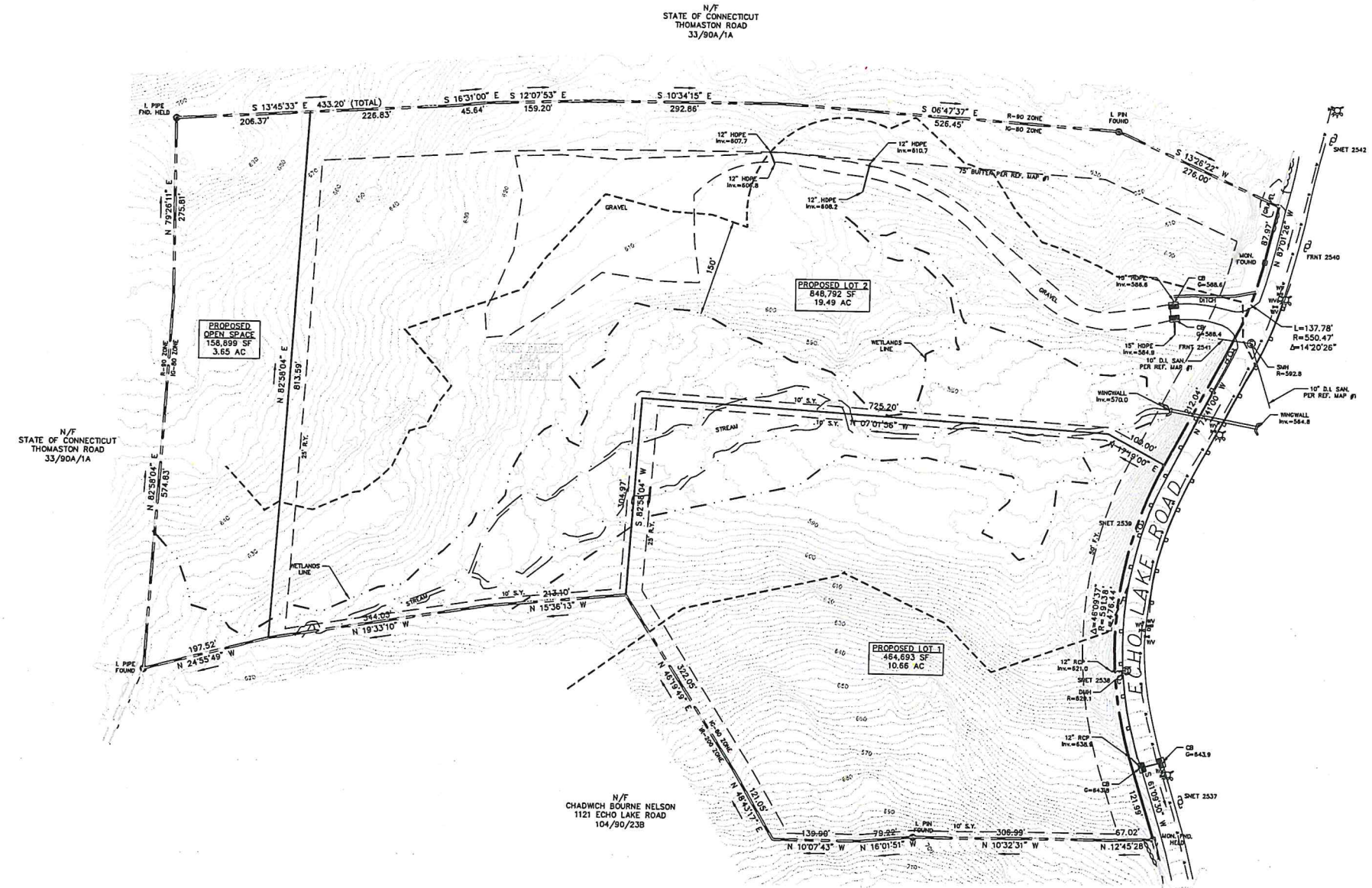
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LOCATION MAP
NTS



WATERTOWN ZONING TABLE (G-80 DISTRICT)				
STANDARDS	REQUIRED	EXISTING	PROPOSED LOT 1	PROPOSED LOT 2
MINIMUM LOT AREA	80,000 SF	1,472,384 SF	464,693 SF	848,782 SF
MIN. FRONTAGE	50'	1,036.22'	598.43'	437.79'
MAX. FLOOR AREA RATIO	0.5	-	-	-
MAXIMUM HEIGHT	60'	-	-	-
MAXIMUM STORIES	4	-	-	-
BLDG. SETBACKS:				
FRONT YARD:	50'	-	-	-
SIDE YARD:	10' / 50*	-	-	-
REAR YARD:	25' / 50*	-	-	-
MAXIMUM LOT COVERAGE	80 %	-	-	-
MAXIMUM BUILDING COV.	40 %	-	-	-

*ABUTTING A RESIDENTIAL ZONE

LEGEND

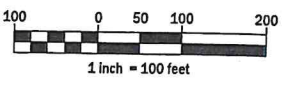
	EXISTING PROPERTY LINE
	BUILDING SETBACK LINE
	EXISTING CONTOUR
	WETLAND LINE
	WETLAND DELINEATED AREA
	EXISTING GRADE LINE
	EASEMENT
	MATCH LINE
	EXISTING WATER MAIN
	EXISTING STORM MAIN
	EXISTING SANITARY SEWER MAIN
	EXISTING ELECTRIC SEWER
	EXISTING FENCE
	STONE DRAINAGE STRUCTURE
	CATCH BASIN
	SANDSTONE BENCH MARK
	UTILITY POLE
	MONUMENT
	IRON FRAGMENT
	PROPOSED PROPERTY LINE

ZONING LOCATION SURVEY
PROPOSED SUBDIVISION
PREPARED FOR
THE SAMBROOK GROUP
MBL 104-90-23A ECHO LAKE ROAD
WATERTOWN, CONNECTICUT

COPYRIGHT © 2025
SCALE: 1" = 100' SEPTEMBER 30, 2025
PROJ. NO.: 1014



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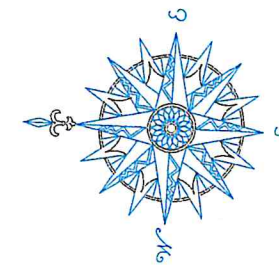


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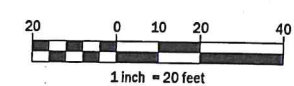
DANIEL C. LAFERRIERE
LICENSED LAND SURVEYOR, REG# 70492

LAYOUT NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL STATE, LOCAL AND FEDERAL REGULATIONS.
2. MATERIALS AND CONSTRUCTION PROCEDURES SHALL COMPLY WITH CT DOT FORM 819 AND THE TOWN OF WATERTOWN SPECIFICATIONS.
3. CONTRACTOR TO SECURE ALL NECESSARY TRADE PERMITS.
4. NEW PAVEMENT TO MEET LINE & GRADE OF EXISTING PAVEMENTS.
5. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DUE TO CONSTRUCTION ACTIVITIES.
6. LOAM AND SEED ALL DISTURBED AREAS NOT COVERED BY OTHER IMPROVEMENTS.
7. ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED.
8. ALL LOCATIONS WHERE EXISTING CURBING, BITUMINOUS CONCRETE ROADWAY OR CONCRETE ROADWAY OR CONCRETE SIDEWALK ABUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO PROVIDE A CLEAN, SMOOTH EDGE. TACK COAT EXPOSED EDGES OF EXISTING CONCRETE PRIOR TO PLACEMENT OF NEW BITUMINOUS CONCRETE PAVEMENT.
9. FIELD ADJUSTMENTS MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE AND APPROPRIATE MUNICIPAL OFFICIALS PRIOR TO CONSTRUCTION.
10. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE VERTICAL AND HORIZONTAL POSITION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
11. CONTRACTOR SHALL CONTROL DUST CAUSED BY HIS OPERATIONS BY APPLYING WATER OR DUST PALLIATIVE, OTHER THAN CALCIUM CHLORIDE.
12. CONTRACTOR SHALL CONTROL NOISE TO AS GREAT AN EXTENT AS POSSIBLE. ALL POWER EQUIPMENT USED DURING CONSTRUCTION SHALL BE EQUIPPED WITH MUFFLERS.
13. MANUFACTURED ITEMS SHALL BE INSTALLED, CONNECTED AND CLEANED ACCORDING TO THE MANUFACTURERS DIRECTIONS.
14. PRIOR TO PROJECT CLOSE-OUT, CONTRACTOR SHALL REMOVE ALL DEBRIS AND EXCESS MATERIALS FROM SITE. ALSO, ANY DAMAGE TO FIELD OR FACTORY APPLIED FINISHES SHALL BE REPAIRED.
15. PROVIDE EXPANSION JOINTS FOR NEW CONCRETE PAVING AT ALL CURBS, BUILDING WALLS, SITE WALLS, LIGHT POLE BASES, MANHOLES, GRATES/VALVES, EXISTING CONCRETE PAVING, FIRE HYDRANTS AND ALL OTHER FIXED MATERIALS. MAXIMUM DISTANCE BETWEEN EXPANSION JOINTS SHALL NOT EXCEED 25 FEET.



NO.	REVISION	DATE
1	REV PER SUBDIVISION	9/25/25
2	REV EOP PER TRUCK TURNING	12/10/25
3	REV PARKING ISLANDS	12/17/25
Previous Editions Obsolete		



ECHO ASSET, LLC
ECHO LAKE ROAD
WATERTOWN, CT

LOT 1 SITE LAYOUT
PLAN

ECHO LAKE ROAD
MBL: 104-90-23A

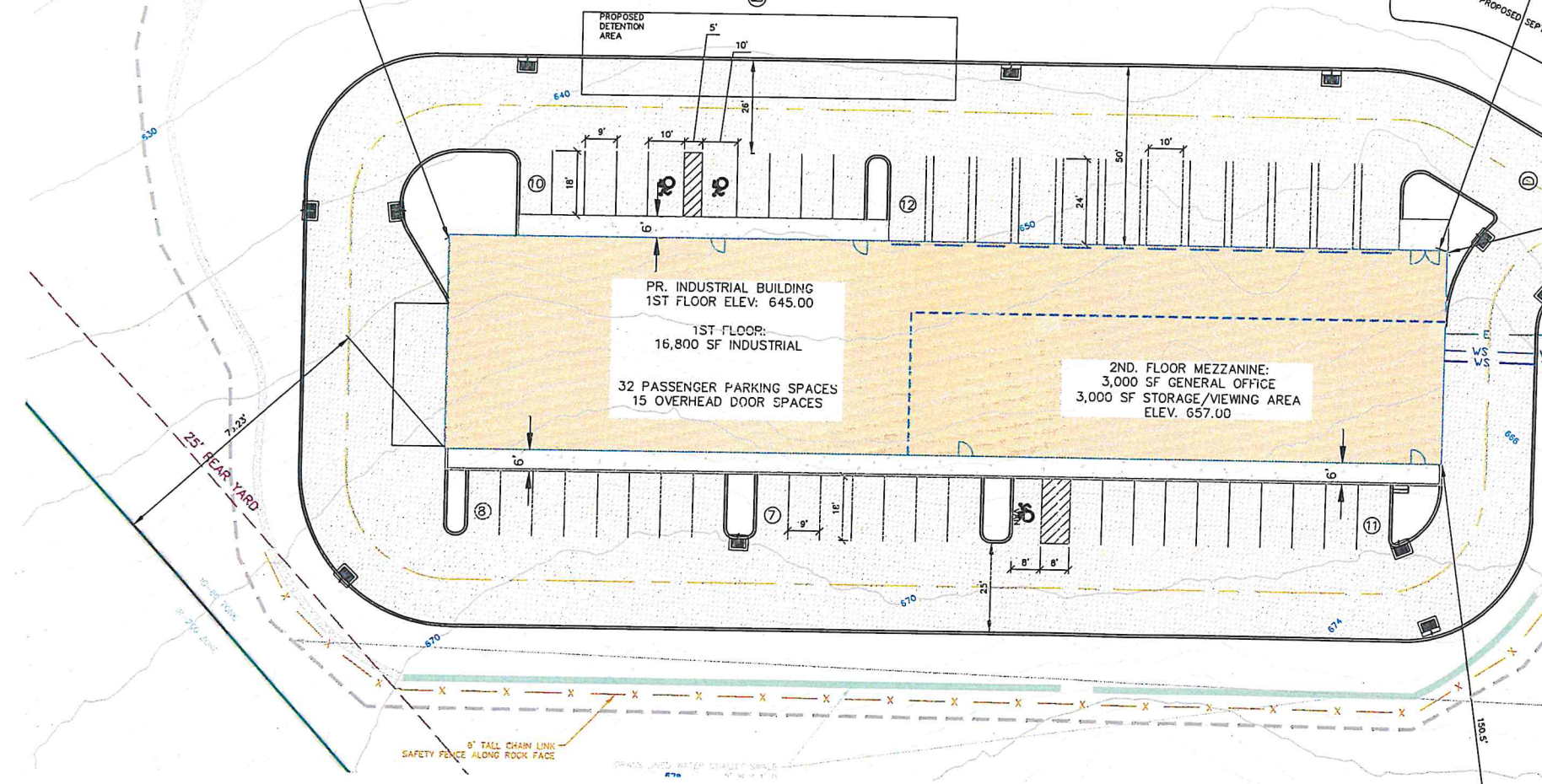
WATERTOWN CONNECTICUT



CORNERSTONE PROFESSIONAL PARK, SUITE D-101
 43 SHERMAN HILL ROAD
 WOODBURY (203) 266-0778 CONNECTICUT



DATE: 01 AUG 2025
 DRAWN BY: 4164
 CHECKED BY: 4164
C 2.1



LEGEND

- PROPERTY LINE
- BUILDING SETBACK LINE
- EXISTING CONTOUR
- 150' WETLAND REGULATED AREA
- ZONE BOUNDARY
- PROPOSED EDGE OF PAVEMENT
- PROPOSED WALKWAY
- WATER QUALITY SWALE
- RIPRAP SWALE
- PROPOSED SAFETY FENCE
- LIMITS OF CONSTRUCTION DISTURBANCE

NOTES

1. THE BASE MAPPING USED FOR THIS SUBDIVISION PLAN WAS PREPARED BY CIVIL1. THE BOUNDARY SURVEY FOR THE PROPERTY WAS PREPARED BY ALL SEASONS LAND SURVEYING.
2. TOTAL AREA OF LOT 1 IS 33.80 AC.
3. PROPERTY LINES IN THE IR-80 ZONING DISTRICT.
4. WETLANDS FLAGGING AS SHOWN WAS DELINEATED BY IAN COLE, SOIL SCIENTIST AND FIELD LOCATED BY CIVIL1.
5. THE WATERTOWN INLAND WETLANDS AGENCY HAS JURISDICTION OF ANY PROPOSED DEVELOPMENT ACTIVITIES WITHIN THE WETLANDS OR WITHIN 150' OF A WETLAND BOUNDARY.
6. DRIVEWAY APRONS, DIMENSIONS AND PROFILES SHALL CONFORM TO THE TOWN OF WATERTOWN STANDARDS.

ZONING LOT 1

	REQUIRED:	PROVIDED:
ZONE - INDUSTRIAL IG-80		
MINIMUM LOT AREA IN SF	80,000 SF	464,693 SF
MIN ROAD FRONTAGE	50'	598.43'
MAX NUMBER OF STORIES FOR A BUILDING	4	2
MAX HEIGHT OF BUILDING OR STRUCTURE	60'	<50'
MAX FLOOR AREA RATIO	50%	4.91%
SETBACKS:		
MIN FRONT YARD	50'	274.00'
MIN SIDE YARD	10'/50'	150.50'
MIN REAR YARD	25'/50'	79.23'
MAX BUILDING COVERAGE	40%	3.62%
MAX TOTAL COVERAGE	80%	12.62%

*ABUTTING A RESIDENTIAL ZONE

APPROVED BY THE WATERTOWN INLAND WETLANDS/CONSERVATION COMMISSION

Chairman/Secretary _____ Date _____

APPROVED BY THE WATERTOWN PLANNING & ZONING COMMISSION

Chairman/Secretary _____ Date _____

APPROVED BY THE WATERTOWN TOWN ATTORNEY

Town Attorney _____ Date _____

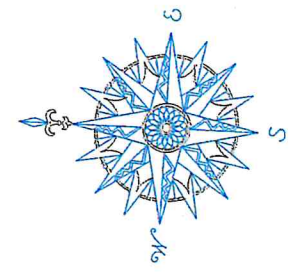
APPROVED BY THE TORRINGTON AREA HEALTH DISTRICT

OFFICER _____ Date _____

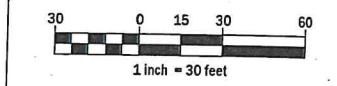
APPROVED BY THE DIRECTOR OF PUBLIC WORKS/TOWN ENGINEER
 TOWN OF WATERTOWN

Director _____ Date _____

NOTE: ADDITIONAL IMPROVEMENTS AND/OR MODIFICATIONS MAY BE REQUIRED BY THE DIRECTOR OF PUBLIC WORKS/TOWN ENGINEER IF FIELD CONDITIONS WARRANT.



NO.	REVISION	DATE
1	REV PER TAHD	9/16/25
2	REV PER SUBDIVISION	9/25/25
3	REV EOP PER TRUCK TURNING	12/10/25
4	REV PARKING ISLANDS	12/17/25
Previous Editions Obsolete		



ECHO ASSET, LLC
ECHO LAKE ROAD
WATERTOWN, CT

LOT 1
GRADING &
DRAINAGE PLAN

ECHO LAKE ROAD
MBL: 104-90-23A

WATERTOWN CONNECTICUT

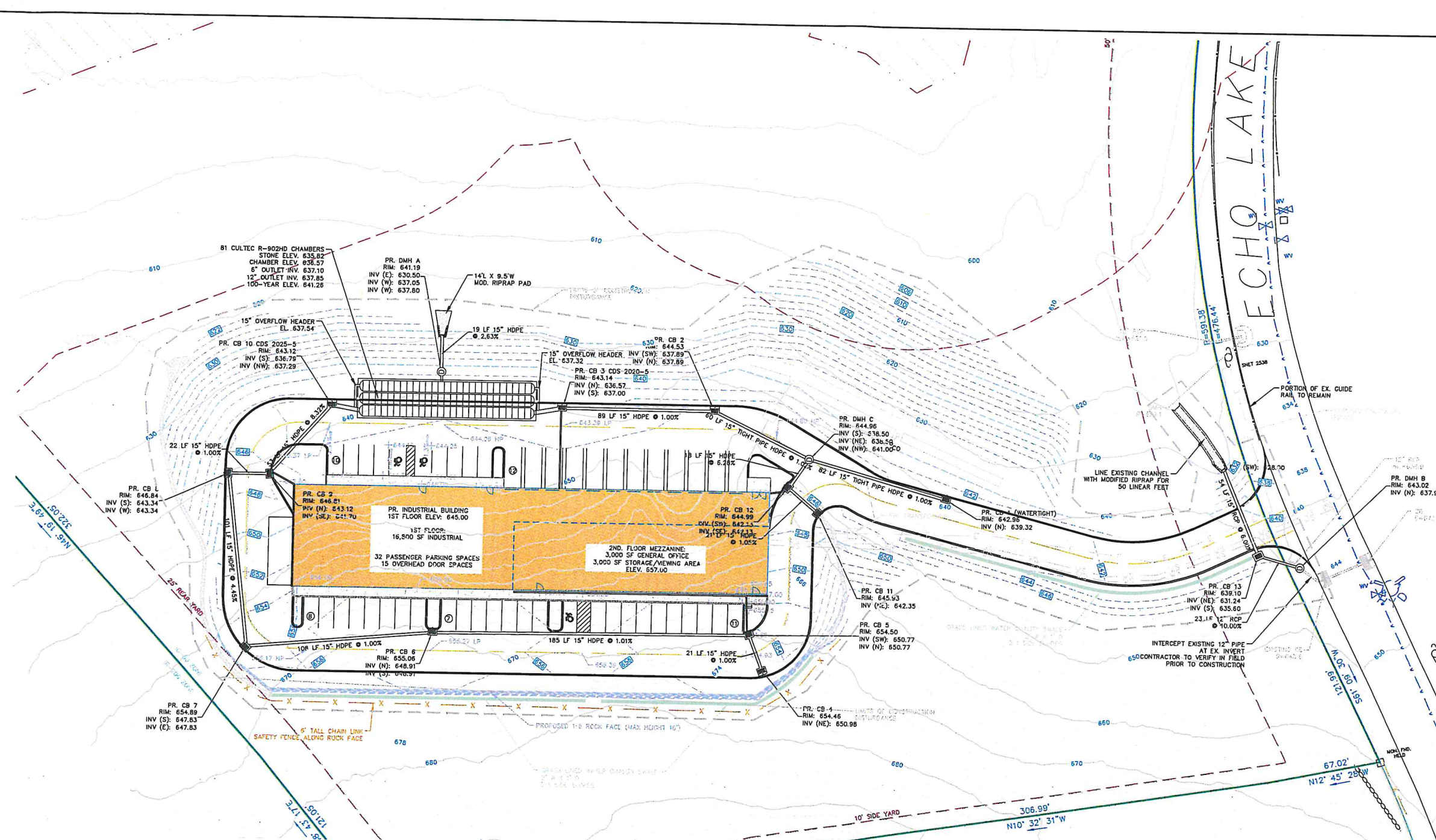


CORNERSTONE PROFESSIONAL PARK, SUITE D-101
43 SHERMAN HILL ROAD
WOODBURY CONNECTICUT
(203) 266-0778



DATE:	1" = 30'
DATE:	01 AUG 2025
PROJECT NO.:	4164
DATE FILED:	4164
REVISION NO.:	4164

C 2.2



GRADING NOTES

- PROPOSED GRADES INDICATE INTENT. THE CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS AS REQUIRED TO MEET FIELD CONDITIONS.
- WHERE FIELD CONDITIONS CALL FOR ON-SITE ADJUSTMENTS OF FINISHED GRADES, THE OWNER'S REPRESENTATIVE SHALL MAKE THE FINAL DETERMINATION.
- CONTRACTOR TO TAKE AND VERIFY ALL DIMENSIONS AND CONDITIONS OF THE JOB AND BE RESPONSIBLE FOR THE SAME. NOTIFY ARCHITECT OF DISCREPANCIES PRIOR TO BEGINNING WORK.
- EROSION CONTROL FABRIC TO BE USED ON ALL SLOPES GREATER THAN 3:1
- STRIP AND STOCKPILE TOPSOIL FOR REUSE ON SITE.
- PITCH ALL WALKS AT 2% CROSS SLOPE UNLESS OTHERWISE NOTED.
- ADJUST ALL EXISTING AND PROPOSED UTILITY FRAMES, GRATES, MANHOLE COVERS, VALVE BOXES, ETC. TO BE FLUSH WITH THE PROPOSED SURFACE.
- ALL EXISTING UTILITY LINES TO BE ABANDONED SHALL BE ABANDONED ACCORDING TO UTILITY COMPANY REQUIREMENTS.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH APPLICABLE STANDARDS.
- ALL EXCESS MATERIAL, EXCEPT TOPSOIL, SHALL BE LEGALLY DISPOSED OF OUTSIDE THE PROJECT LIMITS.
- REFERENCE IS MADE IN THESE DOCUMENTS TO THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION, FORM E19 AND SUPPLEMENTS THERETO.
- DAMAGE TO EXISTING UTILITIES AS A RESULT OF THE CONTRACTOR'S OR ANY OF HIS SUBCONTRACTOR'S ACTIVITIES DURING THE CONSTRUCTION PROCESS SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEWATERING DURING THE EXECUTION OF HIS WORK.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS DEVELOPED FROM THE BEST AVAILABLE INFORMATION. THE ACTUAL LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF EXCAVATION ACTIVITIES.
- ACCESS AND UTILITIES TO EXISTING FACILITIES MUST BE MAINTAINED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR MUST MAINTAIN SUFFICIENT TRAVEL LANES, APPROVED BY THE OWNER, TO ENABLE ALL EMERGENCY VEHICLES TO ACCESS THE ENTIRE PROJECT SITE.
- CONTRACTOR TO VERIFY THAT ALL EXISTING UTILITIES TO BE REUSED ARE FUNCTIONAL.

STORM DRAINAGE NOTES

- ANY CONNECTION TO THE TOWN STORM DRAINAGE SYSTEM SHALL BE MADE UNDER THE SUPERVISION OF, AND TO THE SATISFACTION OF, THE WATERTOWN PUBLIC WORKS DEPARTMENT.
- THE INSTALLATION OF THE STORMWATER DETENTION SYSTEM (CULTEC) SHALL BE DONE UNDER THE SUPERVISION OF A STATE OF CT LICENSED ENGINEER.
- UPON COMPLETION OF CONSTRUCTION, THE INSPECTING ENGINEER SHALL SUBMIT A WRITTEN CERTIFICATION TO THE TOWN THAT THE DETENTION SYSTEM WAS INSTALLED AS PER THE APPROVED DESIGN.
- THE ON-SITE STORM DRAINAGE SYSTEM, INCLUDING DETENTION, IS A PRIVATE SYSTEM AND SHALL BE MAINTAINED BY THE PROPERTY OWNER PER THE MAINTENANCE REQUIREMENTS OF THE APPROVED PLAN SET AND ANY MANUFACTURER RECOMMENDATIONS OR OPERATIONS MANUALS.
- ALL STORM DRAINAGE SYSTEMS SHALL BE EQUIPPED WITH ADEQUATE INSPECTION ACCESS FOR MAINTENANCE PURPOSES.
- STORM DRAINAGE AND DETENTION SYSTEMS INSTALLED WITHIN PAVED AREAS SHALL BE CAPABLE OF HANDLING, AT A MINIMUM, H-20 LOADS.
- NO PORTION OF THE STORM DRAINAGE SYSTEM SHALL BE LOCATED UNDER THE PROPOSED BUILDING OR STRUCTURE.
- ALL STORM DRAINAGE STRUCTURES AND INSTALLATION SHALL MEET THE REQUIREMENTS OF THE TOWN OF WATERTOWN SPECIFICATIONS.
- ALL DISCHARGES ARE TO BE PROPERLY STABILIZED.
- MINIMAL RUNOFF SHALL BE DIRECTED TO THE CITY STREETS.

APPROVED BY THE WATERTOWN INLAND WETLANDS/CONSERVATION COMMISSION

Chairman/Secretary _____ Date _____

APPROVED BY THE WATERTOWN PLANNING & ZONING COMMISSION

Chairman/Secretary _____ Date _____

APPROVED BY THE WATERTOWN TOWN ATTORNEY

Town Attorney _____ Date _____

APPROVED BY THE TORRINGTON AREA HEALTH DISTRICT

OFFICER _____ Date _____

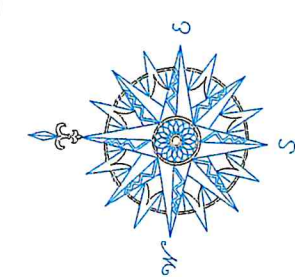
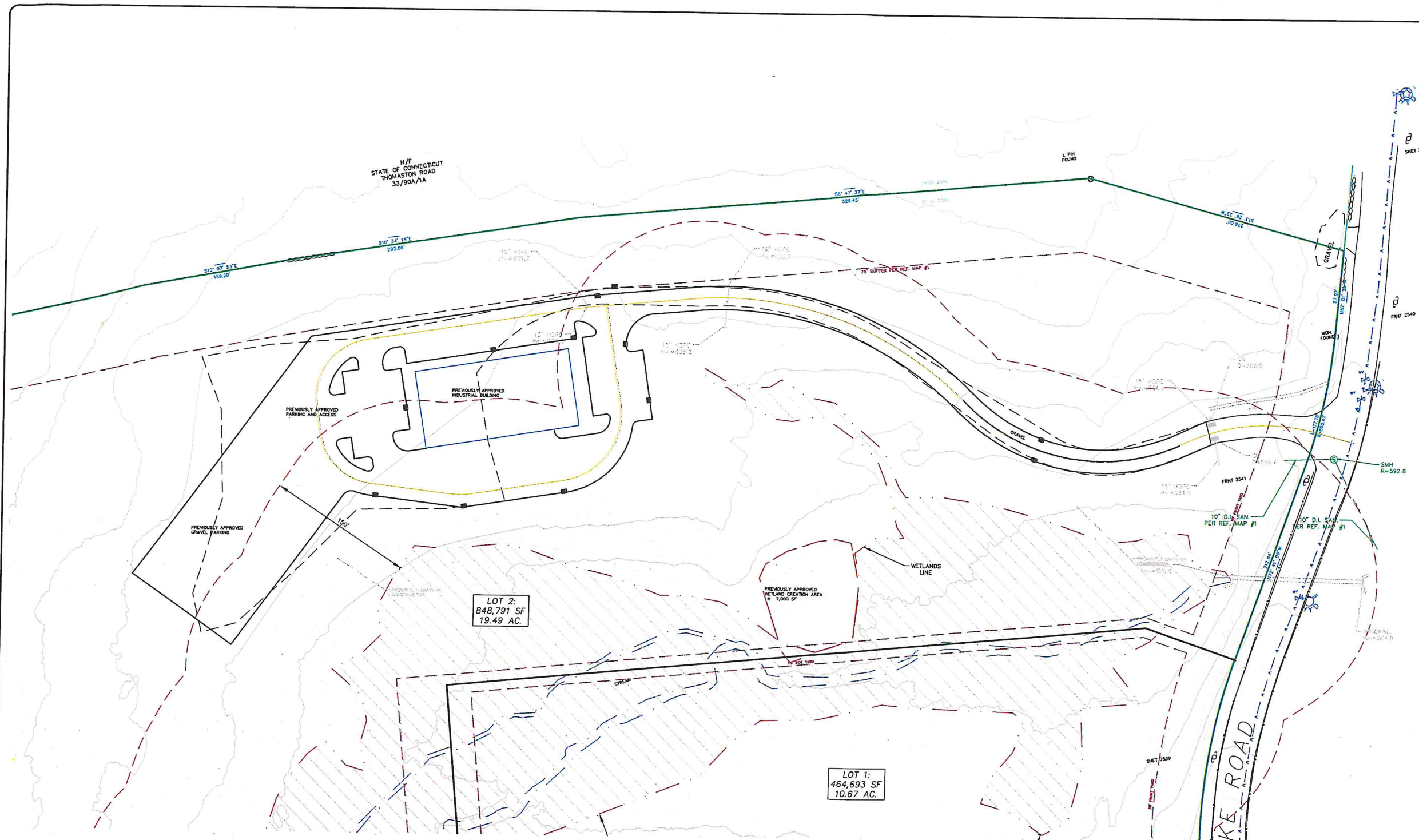
APPROVED BY THE DIRECTOR OF PUBLIC WORKS/TOWN ENGINEER
TOWN OF WATERTOWN

Director _____ Date _____

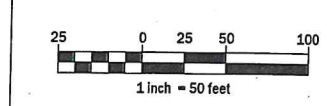
NOTE: ADDITIONAL IMPROVEMENTS AND/OR MODIFICATIONS MAY BE REQUIRED BY THE DIRECTOR OF PUBLIC WORKS/TOWN ENGINEER IF FIELD CONDITIONS WARRANT.

LEGEND

- PROPERTY LINE
- BUILDING SETBACK LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT GRADE
- 150' WETLAND REGULATED AREA
- ZONE BOUNDARY
- PROPOSED EDGE OF PAVEMENT
- PROPOSED WALKWAY
- WATER QUALITY SWALE
- RIPRAP SWALE
- PROPOSED SAFETY FENCE
- LIMITS OF CONSTRUCTION DISTURBANCE
- PROPOSED CATCH BASIN
- PROPOSED MANHOLE
- PROPOSED STORM DRAINAGE PIPING



NO.	REVISION	DATE
1	ADD SHEET PER SUBDIVISION	9/25/25
2	REV PER APPROVED PLAN	12/17/25
Previous Editions Obsolete		



ECHO ASSET, LLC
ECHO LAKE ROAD
WATERTOWN, CT

LOT 2
REFERENCE PLAN

ECHO LAKE ROAD
MBL: 104-90-23A

WATERTOWN CONNECTICUT

CIVIL C1

CORNERSTONE PROFESSIONAL PARK, SUITE D-101
 43 SHERMAN HILL ROAD
 WOODBURY CONNECTICUT (203) 266-0778

DATE: 1" = 50'

DATE: 01.AUG.2025

PROJECT NO: 4164

DRAWN BY: 4164

PROJECT NO: 4164

C 2.5

LEGEND

- PROPERTY LINE
- BUILDING SETBACK LINE
- EXISTING CONTOUR
- 150' WETLAND REGULATED AREA
- ZONE BOUNDARY
- PREVIOUSLY APPROVED EDGE OF PAVEMENT
- EXISTING GRAVEL DRIVE
- PREVIOUSLY APPROVED WATER SERVICE
- PREVIOUSLY APPROVED SANITARY SEWER
- LIMITS OF CONSTRUCTION DISTURBANCE

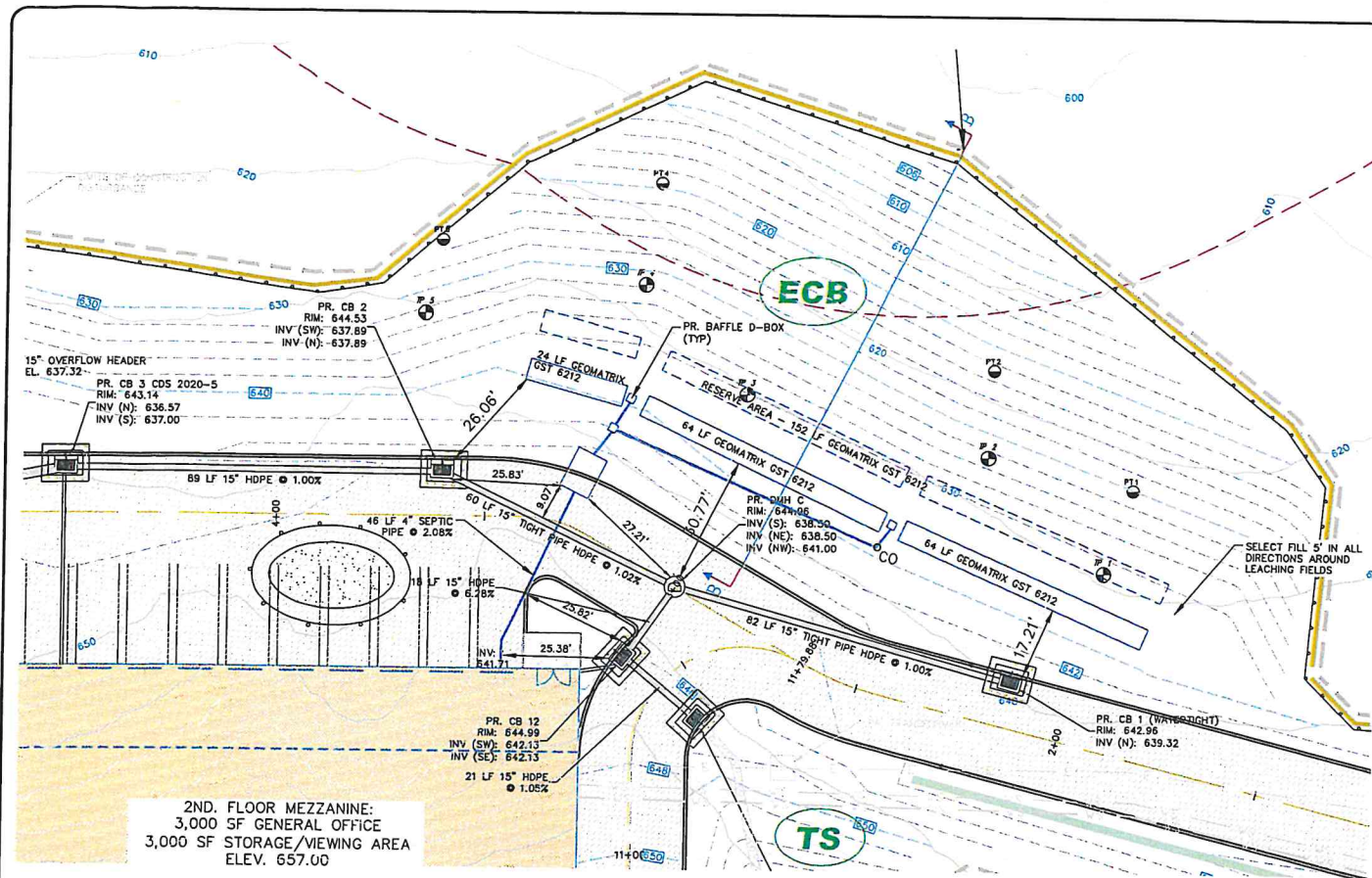
NOTES

1. THE IMPROVEMENTS DEPICTED ON THIS PLAN ARE TAKEN FROM THE PREVIOUSLY APPROVED PLAN SET ENTITLED "PLANS PREPARED FOR THE SAMBROOK GROUP", PREPARED BY KRATZERT, JONES, AND ASSOCIATES AND DATED AUGUST 4, 2021. SAID IMPROVEMENTS ARE NOT PART OF THE CURRENT PROPOSED APPLICATION FOR ECHO ASSET, LLC.

ZONING LOT 2

	REQUIRED:	PROVIDED (PREVIOUSLY APPROVED)
ZONE - INDUSTRIAL IG-80		
MINIMUM LOT AREA IN SF.	80,000 SF	848,791 SF
MIN ROAD FRONTAGE	50'	437.79'
MAX NUMBER OF STORIES FOR A BUILDING	4	2
MAX HEIGHT OF BUILDING OR STRUCTURE	60'	<50'
MAX FLOOR AREA RATIO	50%	2.07%
SETBACKS:		
MIN FRONT YARD	50'	95'
MIN SIDE YARD	10'/50'	151'
MIN REAR YARD	25'/50'	269'
MAX BUILDING COVERAGE	40%	1.51%
MAX TOTAL COVERAGE	80%	9.85%

*ABUTTING A RESIDENTIAL ZONE



SEPTIC AREA PLAN

SCALE: 1" = 20'

SOIL TESTING RESULTS

Deep Test Pit #1
 July 11, 2025
 0-10" Topsoil
 10-40" Orange Brown Silty Loam
 40-48" Tan Fine Sand with Trace Silt Roots at 28"
 Boulders at 45"
 No Ledge
 No Groundwater

Deep Test Pit #2
 July 11, 2025
 0-12" Topsoil
 12-42" Orange Brown Silty Loam
 42-52" Tan Fine Sand with Silt
 Roots at 26"
 Boulders at 52"
 No Ledge
 No Groundwater

Deep Test Pit #3
 July 11, 2025
 0-12" Topsoil
 12-35" Orange Brown Silty Loam
 35-42" Tan Fine Sand with Trace Silt Roots at 22"
 Ledge at 42"
 No Groundwater

Deep Test Pit #4
 July 11, 2025
 0-9" Topsoil
 9-26" Orange Brown Silty Loam
 26-36" Tan Fine Sand with Trace Silt Roots at 20"
 Ledge at 36"
 No Groundwater

Deep Test Pit #5
 July 11, 2025
 0-12" Topsoil
 12-30" Orange Brown Silty Loam
 30-48" Tan Fine Sand with Trace Silt Roots at 24"
 Ledge at 48"
 No Groundwater

Percolation Test #1
 July 11, 2025
 Depth of Hole: 20"
 Presoak: 1:00
 Time Reading
 0:00 7' 0:10
 16" 7/8" 0:20
 Dry
 Percolation Rate = 1-10 minutes per inch

Percolation Test #2
 July 11, 2025
 Depth of Hole: 18"
 Presoak: 1:00
 Time Reading
 0:00 4"
 0:10 13" 1/4"
 0:20 Dry
 Percolation Rate = 1-10 minutes per inch

Percolation Test #4
 July 11, 2025
 Depth of Hole: 19"
 Presoak: 1:00
 Time Reading
 0:00 5"
 0:10 14" 1/2"
 0:20 Dry
 Percolation Rate = 1-10 minutes per inch

Percolation Test #5
 July 11, 2025
 Depth of Hole: 18"
 Presoak: 1:00
 Time Reading
 0:00 5"
 0:10 14" 1/2"
 0:20 Dry
 Percolation Rate = 1-10 minutes per inch

SEPTIC SYSTEM SIZING ANALYSIS

DESIGN FLOW:
 16,800 SF + 3,000 SF INDUSTRIAL X 0.1 GPD/SF = 1,680 GPD
 3,000 SF OFFICE/200 SF PER EMPLOYEE X 20 GPD/EMPLOYEE = 300 GPD DESIGN FLOW
 1,980 GPD + 300 GPD = 2,280 GPD TOTAL DESIGN FLOW

LEACHING AREA:
 EFFECTIVE LEACHING AREA REQUIRED = 2,280 GPD/1.5 = 1,520 SF REQUIRED
 EFFECTIVE LEACHING AREA PROVIDED = 152 LF OF GEOMATRIX GST 6212 LEACHING TRENCHES X 10 SF/LF = 1,520 SF

MLSS CALCULATION

DEPTH TO RESTRICTIVE LAYER = 42"
 HYDRAULIC SLOPE = > 15%
 HYDRAULIC FACTOR, HF = 16
 PERC FACTOR, PF = 1.0
 FLOW FACTOR, FF = 2,280 GPD/300 = 7.6
 MLSS = (16)(1.0)(7.6) = 121.6

152 PROVIDED
 THE HYDRAULIC GRADIENT WAS DETERMINED BY MEASURING THE SLOPE OF THE LAND FROM A POINT 25' ABOVE TO A POINT 50' BELOW THE PROPOSED LEACHING TRENCHES.

DESIGN DATA

- 1) SYSTEM IS DESIGNED FOR AN BUILDING WITH 16,800 SF INDUSTRIAL FLOOR AREA, 3,000 SF OF STORAGE/WAREHOUSING, AND 3,000 SF OF OFFICE FLOOR AREA.
- 2) MINIMUM SIZE SEPTIC TANK SHALL BE 2500 GALLONS AS REQUIRED BY THE STATE HEALTH CODE.
- 3) SYSTEM IS DESIGNED BASED ON A PERCOLATION RATE OF 1" IN 1.0-10.0 MINUTES.
- 4) MINIMUM SIZE OF LEACHING AREA REQUIRED BY THE STATE HEALTH CODE IS 1,500 SQUARE FEET.
- 5) THE SIZE OF PRIMARY LEACHING AREA PROVIDED IS 150 LINEAR FEET OF GEOMATRIX GST 6212 LEACHING TRENCHES WITH AN EFFECTIVE LEACHING AREA OF 10.0 S.F./L.F. FOR A TOTAL EFFECTIVE LEACHING AREA OF 1,500 SF.
- 7) LEACHING AREA SHALL BE LOCATED A MINIMUM OF 25 FEET FROM THE ANY STORM DRAINAGE CONVEYANCE, PIPING, OR STRUCTURES UNLESS TIGHT PIPE AND WATERTIGHT STRUCTURES ARE SPECIFIED.
- 8) AREA OF LOT IS 33.8 ACRES.

INSPECTIONS

1. THE CONTRACTOR IS RESPONSIBLE TO HAVE THE CONSTRUCTION OF THE SUBSURFACE DISPOSAL SYSTEM INSPECTED BY A LICENSED PROFESSIONAL ENGINEER AT THE FOLLOWING STAGES OF CONSTRUCTION:
 A. FOLLOWING REMOVAL OF TOPSOIL AND PRIOR TO PLACEMENT OF FILL
 B. AFTER PLACEMENT OF SEPTIC TANK, DISTRIBUTION BOXES, PIPE STONE AND FILTER FABRIC BUT PRIOR TO BACKFILLING.
 C. FOLLOWING FINE GRADING, SEEDING AND MULCHING.
2. THE CONTRACTOR IS ALSO RESPONSIBLE FOR COORDINATING THE ABOVE INSPECTIONS WITH THE TORRINGTON AREA HEALTH DISTRICT.
3. A LICENSED PROFESSIONAL ENGINEER SHALL PERFORM THREE PERCOLATION TEST IN THE SELECT FILL AFTER PLACEMENT. THE PERCOLATION RATE IN THE SELECT FILL SHALL BE AT LEAST AS FAST AS THE NATURALLY OCCURRING MATERIAL UNDERNEATH.
4. TO ENSURE THAT THE SELECT FILL PLACED ON THE SITE MEETS THE GRADATION REQUIRED BY THE PUBLIC HEALTH CODE A LICENSED PROFESSIONAL ENGINEER SHALL COLLECT A SAMPLE OF THE SELECT FILL AT THE SITE AND WILL ARRANGE FOR A SIEVE ANALYSIS TO BE PERFORMED. IT IS STRONGLY SUGGESTED THAT A SAMPLE OF THE SELECT FILL BE TESTED ONE WEEK PRIOR TO THE INSTALLATION OF THE SYSTEM.
5. AN AS-BUILT PLAN SHALL BE SUBMITTED ALONG WITH A STATEMENT BY A PROFESSIONAL ENGINEER STATING THAT THE SYSTEM AS INSTALLED SUBSTANTIALLY MEETS THE INTENT OF THE APPROVED PLANS TO THE TORRINGTON AREA HEALTH DISTRICT.

C-33 FILL SPECIFICATIONS

C-33 SAND PLACED FOR THE LEACHING AREA SHALL COMPLY WITH THE FOLLOWING GRADATION:

SIEVE	% PASSING (WET)
3/8"	100
NO. 4	95-100
NO. 8	90-100
NO. 15	50-85
NO. 30	25-60
NO. 50	5-30
NO. 100	0 - 10
NO. 200	0 - 3

SELECT FILL SPECIFICATIONS

SELECT FILL PLACED FOR THE LEACHING AREA SHALL COMPLY WITH THE FOLLOWING GRADATION:

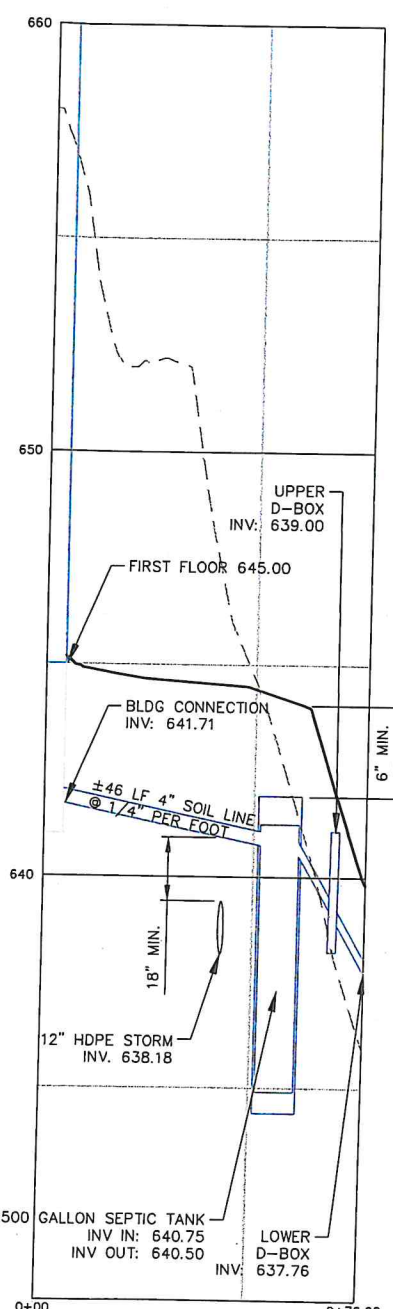
SIEVE	% PASSING (WET)	% PASSING (DRY)
NO. 4	100	100
NO. 10	70 - 100	70 - 100
NO. 40	10 - 50	10 - 75
NO. 100	0 - 20	0 - 5
NO. 200	0 - 5	0 - 2.5

INVERT ELEVATIONS

HOUSE CONNECTION	641.71
SEPTIC TANK-IN	640.75
SEPTIC TANK-OUT	640.25
UPPER D-BOX INV.	639.00
BAFFLE D-BOX INV.	637.76
DISTRIBUTION PIPE INV.	637.76
BOTTOM OF LEACHING TRENCH	636.76
BOTTOM OF C33 SAND	636.60

*CONTRACTOR TO VERIFY CONNECTION ELEVATION PRIOR TO INSTALLATION AND ENSURE 1/4" PER FOOT MIN. PITCH TO THE SEPTIC TANK.

APPROVED BY THE TORRINGTON AREA HEALTH DISTRICT

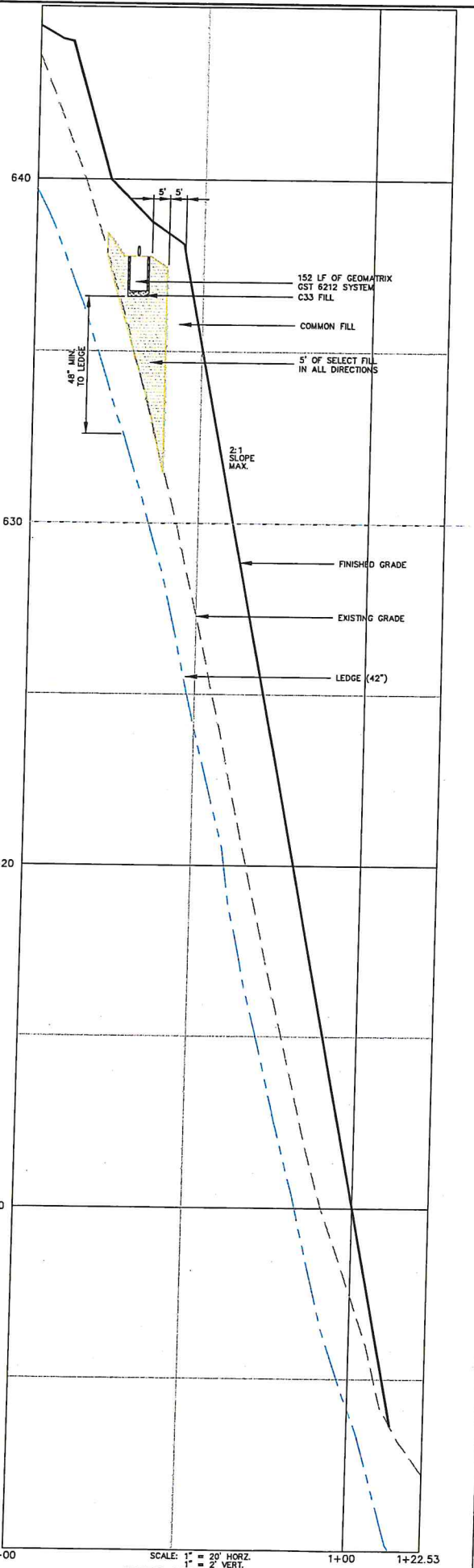


SOIL LINE TO SEPTIC TANK

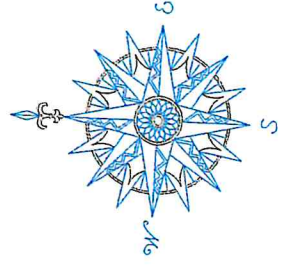
SCALE: 1" = 2' HORIZ. 1" = 2' VERT.

LEGEND

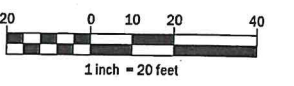
- PROPERTY LINE
- BUILDING SETBACK LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- 150' WETLAND REGULATED AREA
- PROPOSED EDGE OF PAVEMENT
- PROPOSED WALKWAY
- WATER QUALITY SWALE
- RIPRAP SWALE
- PROPOSED PRIMARY SEPTIC AREA
- PROPOSED RESERVE SEPTIC AREA
- LIMITS OF CONSTRUCTION DISTURBANCE
- PROPOSED CATCH BASIN
- PROPOSED MANHOLE
- PROPOSED STORM DRAINAGE PIPING
- SOIL TESTING - DEEP TEST PIT
- SOIL TESTING - PERCOLATION TEST



SEPTIC AREA SECTION B-B



NO.	REVISION	DATE
1	REV PER TAHD	9/18/25
2	REV PER SUBDIVISION	9/25/25



ECHO ASSET, LLC
 ECHO LAKE ROAD
 WATERTOWN, CT

LOT 1
 SUBSURFACE SEWAGE
 DISPOSAL SYSTEM DESIGN
 AND PROFILES

ECHO LAKE ROAD
 MBL: 104-90-23A

WATERTOWN CONNECTICUT

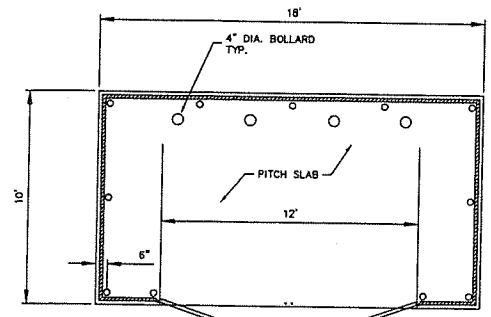
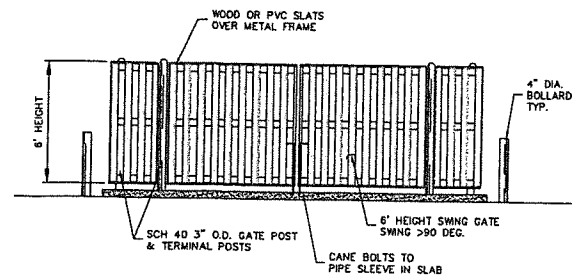
CIVIL C1

CORNERSTONE PROFESSIONAL PARK, SUITE D-101
 43 SHERMAN HILL ROAD
 WOODBURY CONNECTICUT
 (203) 266-0778

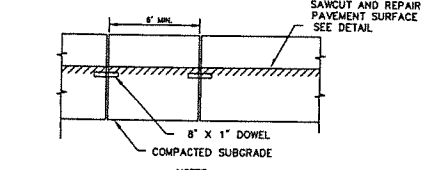
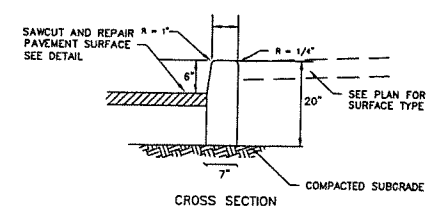
SEAL OF THE STATE OF CONNECTICUT

SCALE: 1" = 20'
 DATE: 01 AUG 2025
 PROJECT NO.: 4154
 CADS FILE NAME: 4154

C 3.1

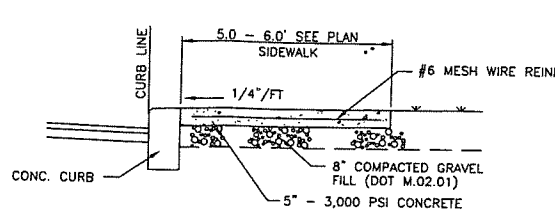
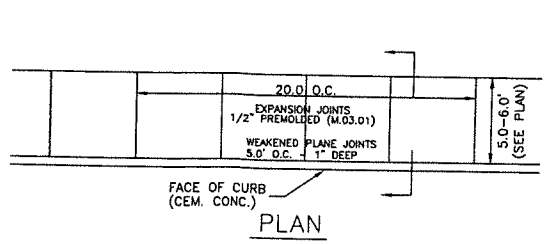


DUMPSTER ENCLOSURE
N.T.S.

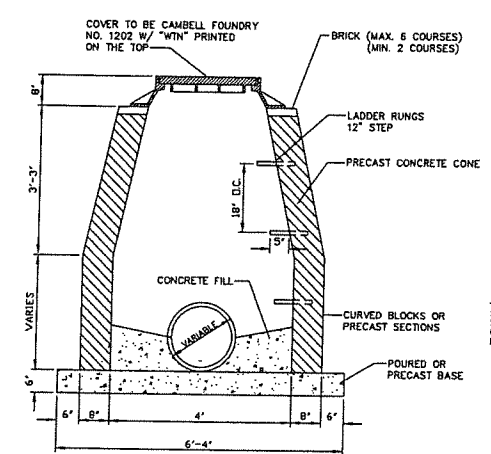
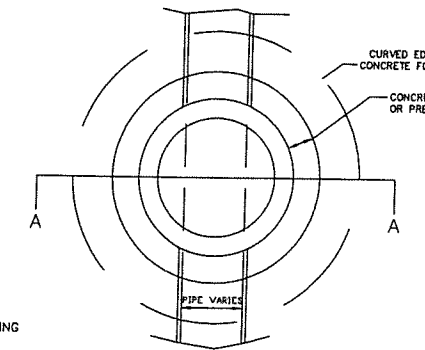


ON-SITE CONCRETE CURB
N.T.S.

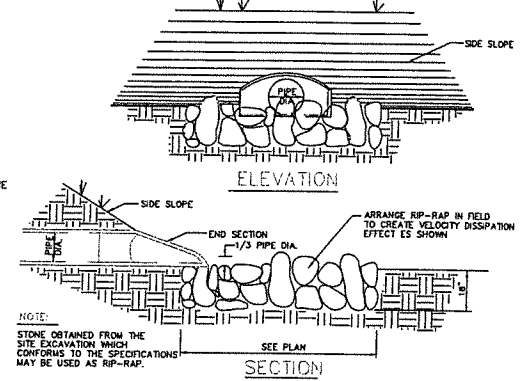
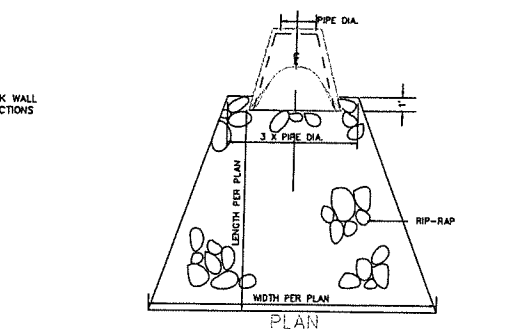
NOTES:
1. CONCRETE FOR CURB SHALL BE 5000 PSI WITH 5-7% AIR ENTRAINMENT
2. ALL GAPS AND JOINTS OF 1/2" OR GREATER SHALL BE FILLED WITH MORTAR.
3. MANUFACTURED TO CT D.O.T. SPECIFICATIONS.
4. 2 X 6" LOGS REBAR CONNECTING PINS.



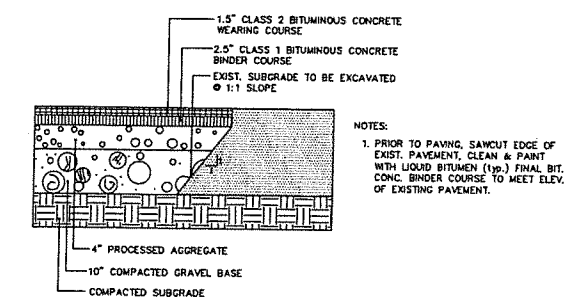
CONCRETE SIDEWALK DETAIL
N.T.S.



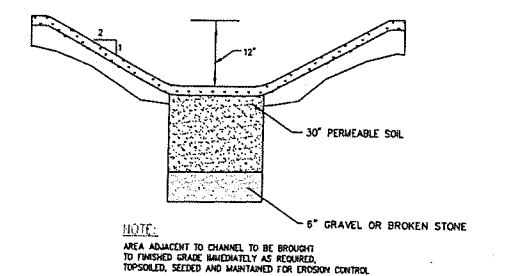
DRAINAGE MANHOLE
WITHOUT SURP



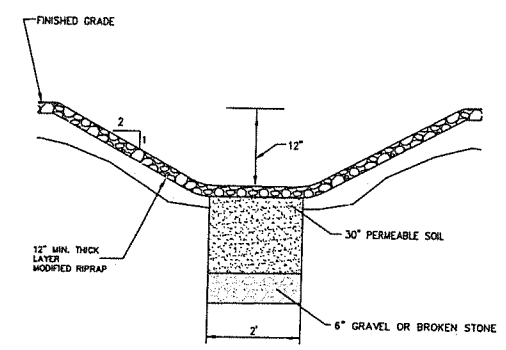
RIP-RAP APRON/ENERGY DISSIPATOR
(Concrete End Section)



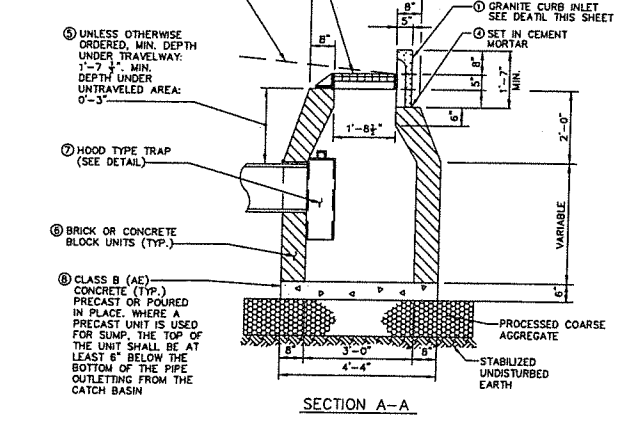
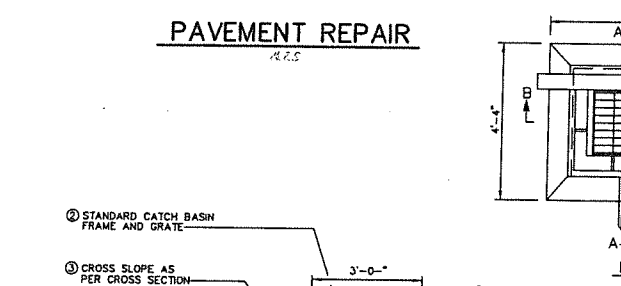
PAVEMENT REPAIR
N.T.S.



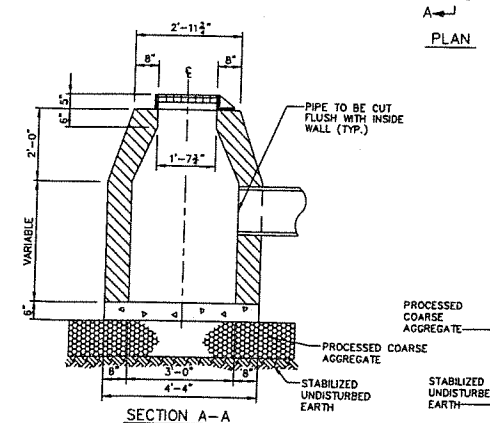
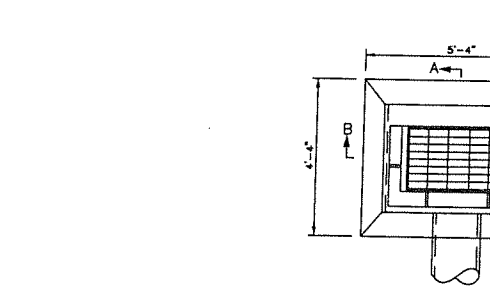
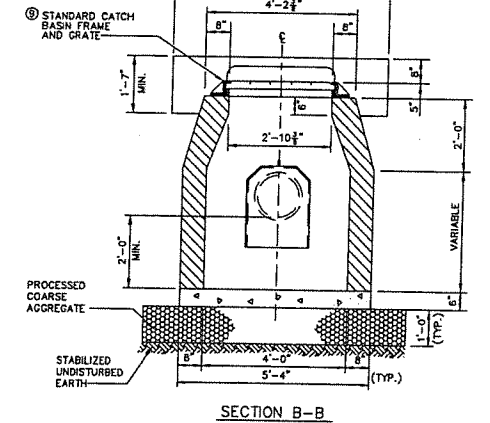
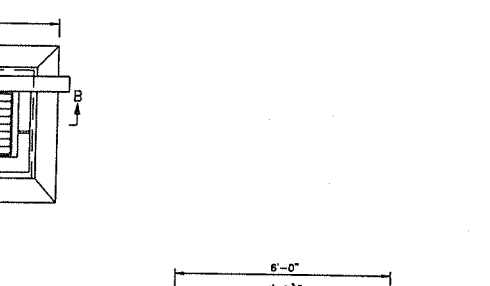
GRASS INFILTRATION/WATER QUALITY SWALE
N.T.S.



RIPRAP DRAINAGE SWALE
N.T.S.



TYPE "C" CATCH BASIN DETAIL
N.T.S.



TYPE "CL" CATCH BASIN DETAIL
N.T.S.

- NOTES:
1. HOOD TYPE TRAP NOT SHOWN.
2. NOTES NUMBERS ①-④ APPLY TO THE DETAILS.
- ① GRANITE CURB INLET SEE DETAIL THIS SHEET
 - ② STANDARD CATCH BASIN FRAME AND GRATE
 - ③ CROSS SLOPE AS PER CROSS SECTION
 - ④ SET IN CEMENT MORTAR
 - ⑤ UNLESS OTHERWISE ORDERED, MIN. DEPTH UNDER TRAVELWAY: 1'-7" MIN. DEPTH UNDER UNTRAVELED AREA: 0'-3"
 - ⑥ HOOD TYPE TRAP WHERE REQUIRED (SEE DETAIL NH-19)
 - ⑦ BRICK OR CONCRETE BLOCK UNITS (TYP.)
 - ⑧ CLASS B (A-E) CONCRETE (TYP.) PRECAST OR POURED IN PLACE WHERE A PRECAST UNIT IS USED FOR SUMP, THE TOP OF THE UNIT SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLETING FROM THE CATCH BASIN
 - ⑨ STANDARD CATCH BASIN FRAME AND GRATE

NO.	REVISION	DATE

ECHO ASSET, LLC
ECHO LAKE ROAD
WATERTOWN, CT

DETAILS

ECHO LAKE ROAD
MBL: 104-90-23A

CIVIL
CORNERSTONE PROFESSIONAL PARK, SUITE D-101
43 SHERMAN HILL ROAD
WOODBURY CONNECTICUT (203) 266-0778

SCALE: N.T.S.
DATE: 01.AUG.2025
PROJECT NO.: 4164
DRAWING NAME: 4164
DRAWING NO.: C5.2

CULTEC RECHARGER 902HD SPECIFICATIONS

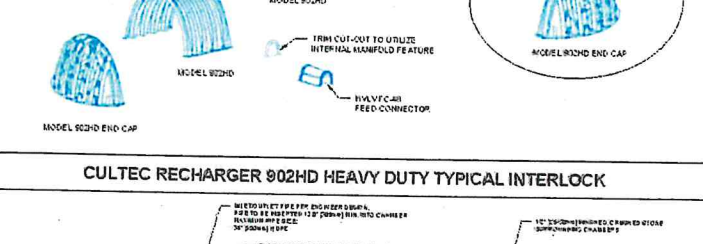
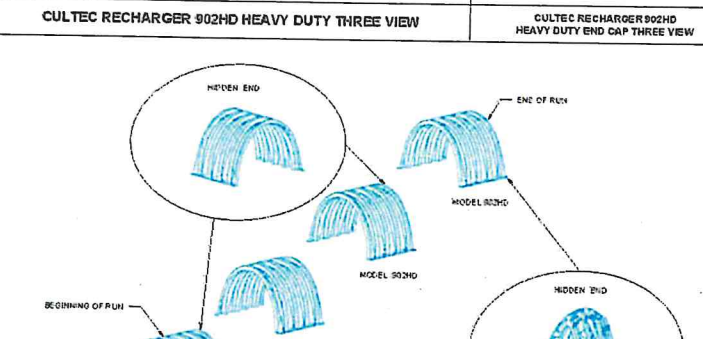
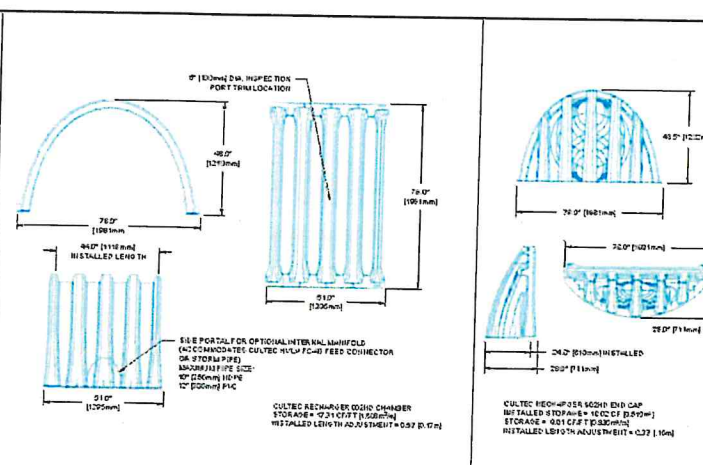
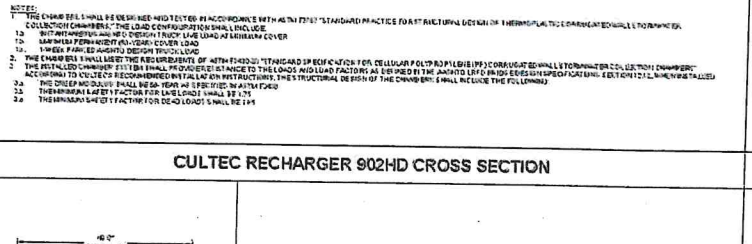
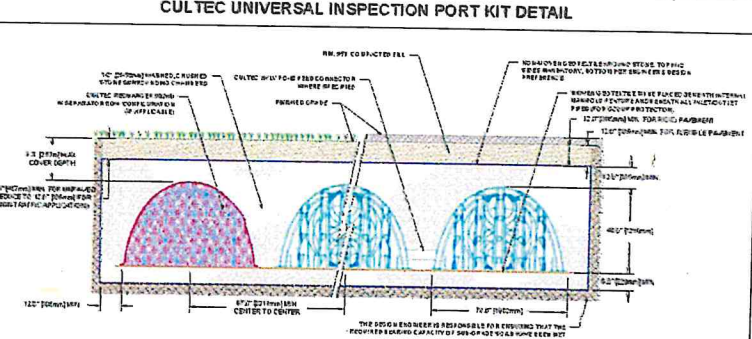
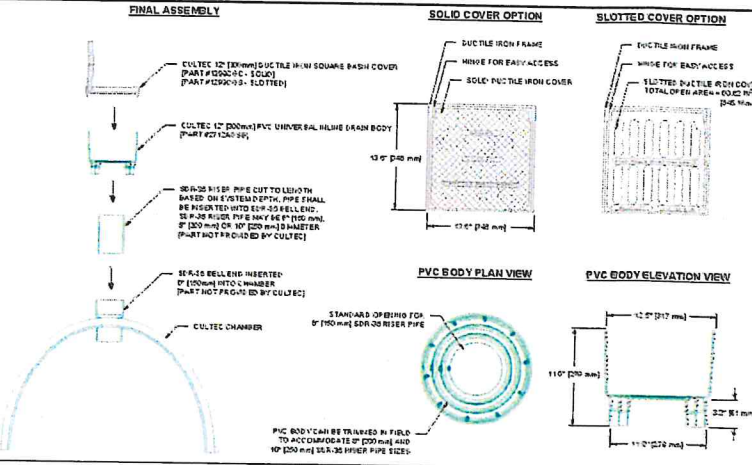
GENERAL NOTES

1. THE CHAMBERS SHALL BE MANUFACTURED BY THE U.S.A. BY CULTEC, INC. OF BROOKFIELD, CT (CULTEC.COM, 203-779-4414).
2. THE CHAMBERS SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH ASTM F2327 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC COMPOUNDED WALL STORMWATER COLLECTION CHAMBERS". THE LOAD CONFIGURATION SHALL INCLUDE:
 - A. DISTRIBUTED UNIFORM DESIGN TRUCK LOAD AT NOMINAL COVER
 - B. UNIFORM PRESENT DESIGN TRUCK LOAD
 - C. UNIFORM DESIGN TRUCK LOAD
3. THE CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2420-20 "STANDARD SPECIFICATION FOR CELLULAR POLYPROPYLENE (PP) COMPOUNDED WALL STORMWATER COLLECTION CHAMBERS".
4. THE CHAMBERS SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE ASHTO UNIFORM DESIGN SPECIFICATION SECTION 12.12. WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS, THE STRUCTURAL DESIGN OF THE CHAMBERS SHALL INCLUDE THE FOLLOWING:
 - A. THE COVER SHALL BE 20 INCHES (508 MM) HIGH.
 - B. THE MINIMUM SAFETY FACTOR FOR LIVE LOADS SHALL BE 1.75.
 - C. THE MINIMUM SAFETY FACTOR FOR DEAD LOADS SHALL BE 1.35.
 - D. THE CHAMBERS SYSTEM SHALL BE STRUCTURALLY DESIGNED TO PROVIDE RESISTANCE TO THE LIVE LOADS AS DEFINED BY THE ASHTO UNIFORM DESIGN SPECIFICATION WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
5. THE CHAMBERS SHALL BE STRUCTURALLY PROVED TO PROVIDE RESISTANCE TO THE LIVE LOADS AS DEFINED BY THE ASHTO UNIFORM DESIGN SPECIFICATION WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
6. THE CHAMBERS SHALL BE STRUCTURALLY PROVED TO PROVIDE RESISTANCE TO THE LIVE LOADS AS DEFINED BY THE ASHTO UNIFORM DESIGN SPECIFICATION WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
7. THE CHAMBERS SHALL BE DESIGNED TO WITHSTAND UNIFORM LIVE LOADS AS DEFINED BY THE ASHTO UNIFORM DESIGN SPECIFICATION WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
8. THE CHAMBERS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE ASHTO UNIFORM DESIGN SPECIFICATION WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
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20. THE CHAMBERS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE ASHTO UNIFORM DESIGN SPECIFICATION WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.

CULTEC HWL FC-48 FEED CONNECTOR PRODUCT SPECIFICATIONS

GENERAL NOTES

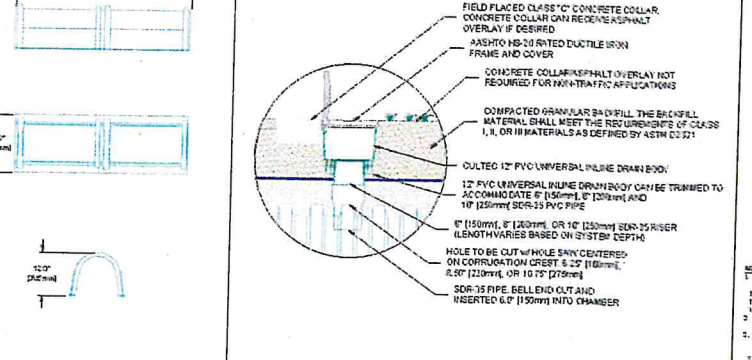
1. THE FEED CONNECTOR SHALL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT (CULTEC.COM, 203-779-4414).
2. THE FEED CONNECTOR SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH ASTM F2327 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC COMPOUNDED WALL STORMWATER COLLECTION CHAMBERS". THE LOAD CONFIGURATION SHALL INCLUDE:
 - A. DISTRIBUTED UNIFORM DESIGN TRUCK LOAD AT NOMINAL COVER
 - B. UNIFORM PRESENT DESIGN TRUCK LOAD
 - C. UNIFORM DESIGN TRUCK LOAD
3. THE FEED CONNECTOR SHALL MEET THE REQUIREMENTS OF ASTM F2420-20 "STANDARD SPECIFICATION FOR CELLULAR POLYPROPYLENE (PP) COMPOUNDED WALL STORMWATER COLLECTION CHAMBERS".
4. THE FEED CONNECTOR SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE ASHTO UNIFORM DESIGN SPECIFICATION SECTION 12.12. WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS, THE STRUCTURAL DESIGN OF THE CHAMBERS SHALL INCLUDE THE FOLLOWING:
 - A. THE COVER SHALL BE 20 INCHES (508 MM) HIGH.
 - B. THE MINIMUM SAFETY FACTOR FOR LIVE LOADS SHALL BE 1.75.
 - C. THE MINIMUM SAFETY FACTOR FOR DEAD LOADS SHALL BE 1.35.
 - D. THE CHAMBERS SYSTEM SHALL BE STRUCTURALLY DESIGNED TO PROVIDE RESISTANCE TO THE LIVE LOADS AS DEFINED BY THE ASHTO UNIFORM DESIGN SPECIFICATION WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
5. THE FEED CONNECTOR SHALL BE STRUCTURALLY PROVED TO PROVIDE RESISTANCE TO THE LIVE LOADS AS DEFINED BY THE ASHTO UNIFORM DESIGN SPECIFICATION WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
6. THE FEED CONNECTOR SHALL BE STRUCTURALLY PROVED TO PROVIDE RESISTANCE TO THE LIVE LOADS AS DEFINED BY THE ASHTO UNIFORM DESIGN SPECIFICATION WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
7. THE FEED CONNECTOR SHALL BE DESIGNED TO WITHSTAND UNIFORM LIVE LOADS AS DEFINED BY THE ASHTO UNIFORM DESIGN SPECIFICATION WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
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GENERAL NOTES

PIPE	A	B
6" (152 mm)	25.00" (635 mm)	1.00" (25 mm)
8" (203 mm)	36.00" (914 mm)	1.00" (25 mm)
10" (254 mm)	47.00" (1193 mm)	1.25" (32 mm)
12" (305 mm)	58.00" (1471 mm)	1.50" (38 mm)
14" (354 mm)	69.00" (1752 mm)	1.75" (44 mm)
16" (406 mm)	80.00" (2032 mm)	2.00" (51 mm)
18" (457 mm)	91.00" (2301 mm)	2.25" (57 mm)
20" (508 mm)	102.00" (2590 mm)	2.50" (64 mm)
24" (609 mm)	123.00" (3113 mm)	3.00" (76 mm)
30" (762 mm)	153.00" (3888 mm)	3.50" (89 mm)

CULTEC RECHARGER 902HD TYPICAL PIPE INVERTS



CULTEC HWL FC-48 FEED CONNECTOR THREE VIEW

CULTEC STORMWATER CHAMBER

PROJECT NO: 062024
 DATE: 06/20/24
 CHECKED BY: DPG
 DESIGNED BY: TECH
 SCALE: N.T.S.
 SHEET NO: 1 OF 1

RECHARGER 902HD DETAIL SHEET

CULTEC
 878 Federal Road
 Brookfield, CT 06804
 www.cultec.com
 CT: tech@cultec.com

NO.	REVISION	DATE

Previous Editions Obsolete

ECHO ASSET, LLC
 ECHO LAKE ROAD
 WATERTOWN, CT

CULTEC DETAILS

ECHO LAKE ROAD
 MBL: 104-90-23A

WATERTOWN CONNECTICUT

CIVIL 1

CORNERSTONE PROFESSIONAL PARK, SUITE 0-101
 43 SHERMAN HILL ROAD
 WOODBURY (203) 266-0778 CONNECTICUT

DATE: 01 AUG 2025
 PROJECT: 4164
 DRAWING: 4164
 SCALE: N.T.S.

C 5.3

