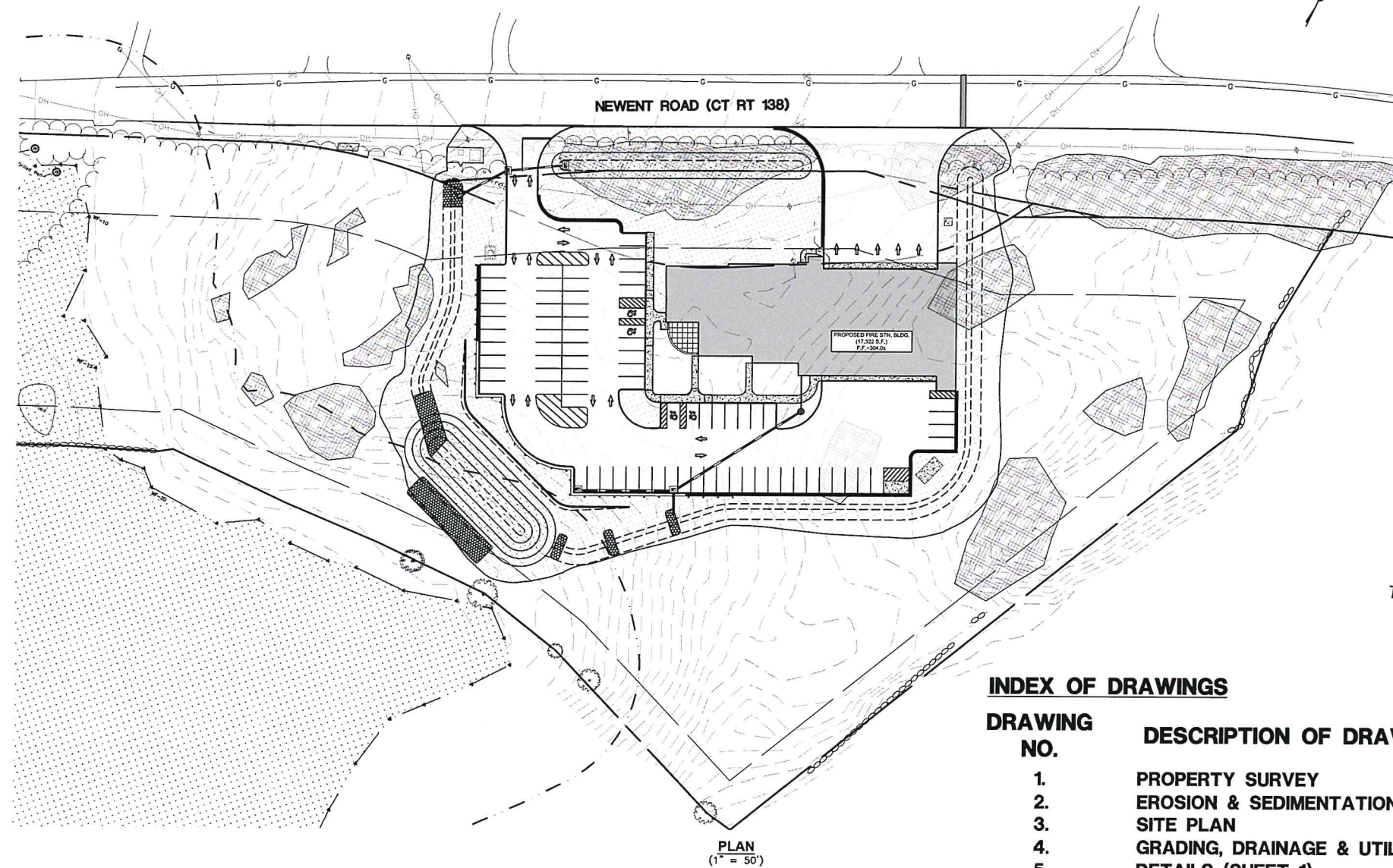
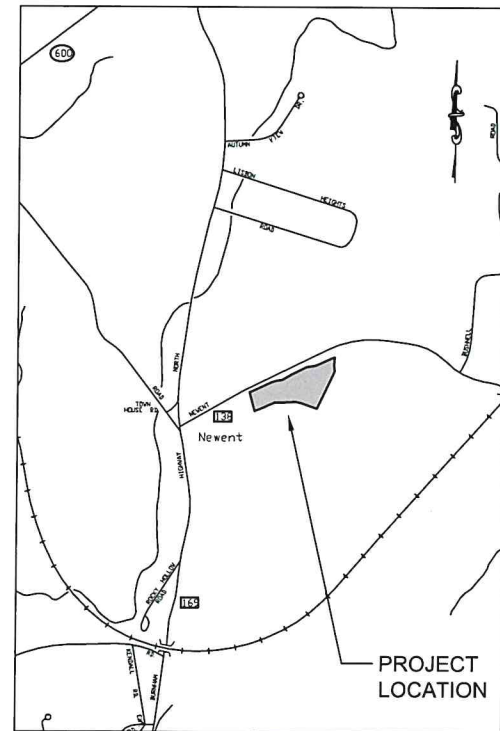


LISBON FIRE STATION

25 NEWENT ROAD (ROUTE 138)

TOWN OF LISBON



RECEIVED
13 p.m.
JUN 2 2022
@ 11:50 am
TOWN CLERKS OFFICE
TOWN OF LISBON
Karen Trocchi

INDEX OF DRAWINGS

DRAWING NO.	DESCRIPTION OF DRAWINGS
1.	PROPERTY SURVEY
2.	EROSION & SEDIMENTATION CONTROL PLAN
3.	SITE PLAN
4.	GRADING, DRAINAGE & UTILITIES PLAN
5.	DETAILS (SHEET 1)
6.	DETAILS (SHEET 2)
7.	CTDOT TRENCH DETAILS
8.	DRIVEWAY 'A' SIGHTLINE
9.	DRIVEWAY 'B' SIGHTLINE
10.	SEPTIC SYSTEM DESIGN
11.	PLANTING PLAN
12.	PLANTING DETAILS

CALL TWO FULL WORKING DAYS IN ADVANCE
CALL BEFORE YOU DIG
811

APPROVAL BY THE TOWN OF LISBON
APPROVAL BY THE PLANNING AND ZONING COMMISSION
FINAL APPROVAL _____
CHAIRMAN SIGNATURE DATE
DATE OF APPROVAL _____
EXPIRATION DATE _____

(REVISED JUNE 1, 2022)
APRIL 26, 2022

CLA Engineers, Inc.
CIVIL • STRUCTURAL • SURVEYING

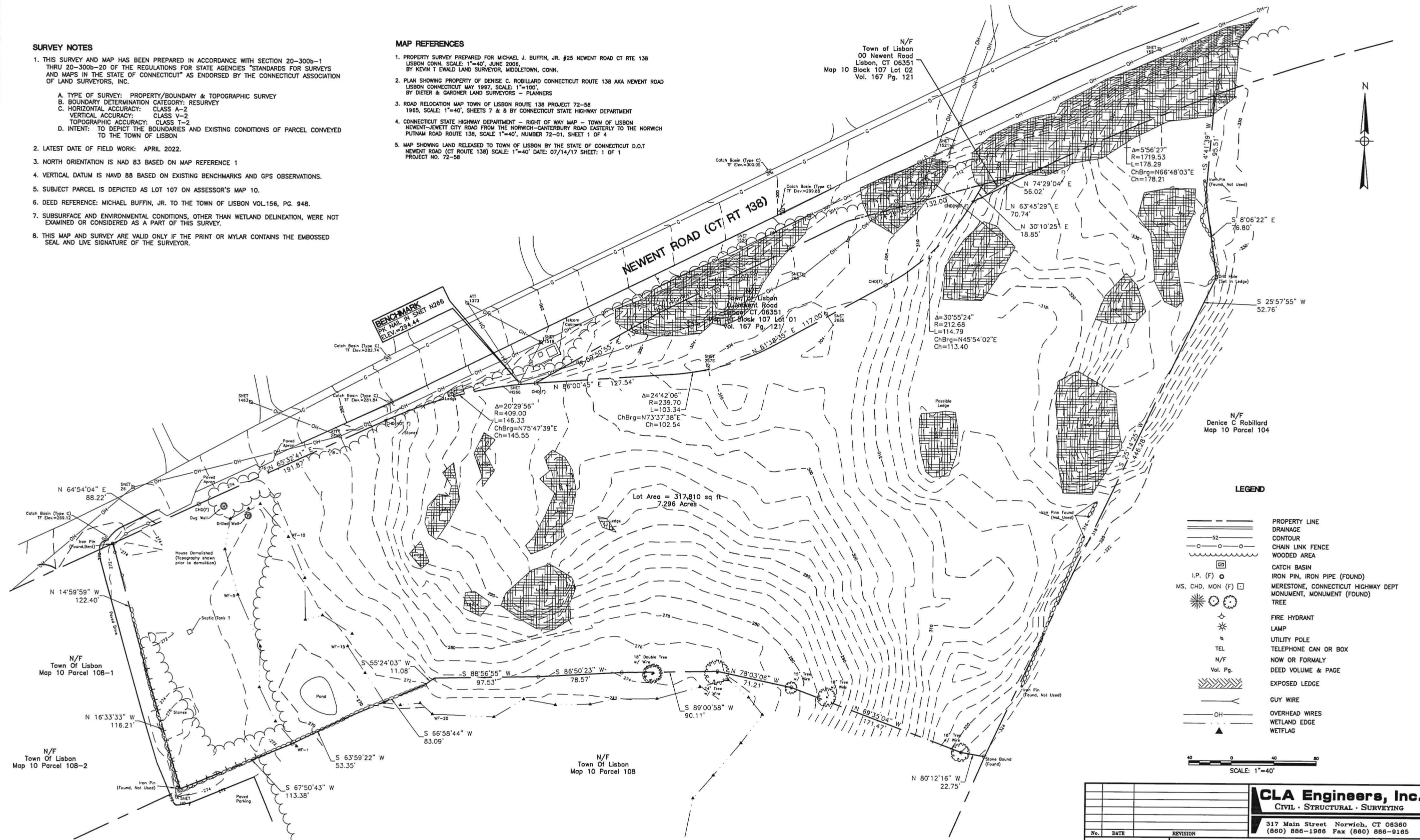
317 Main Street Norwich, CT 06360
(860) 886-1966 Fax (860) 886-9165

SURVEY NOTES

- THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 20-300b-1 THRU 20-300b-20 OF THE REGULATIONS FOR STATE AGENCIES "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ENDORSED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC.
 - A. TYPE OF SURVEY: PROPERTY/BOUNDARY & TOPOGRAPHIC SURVEY
 - B. BOUNDARY DETERMINATION CATEGORY: RESURVEY
 - C. HORIZONTAL ACCURACY: CLASS A-2
 - VERTICAL ACCURACY: CLASS V-2
 - TOPOGRAPHIC ACCURACY: CLASS T-2
 - D. INTENT: TO DEPICT THE BOUNDARIES AND EXISTING CONDITIONS OF PARCEL CONVEYED TO THE TOWN OF LISBON
- LATEST DATE OF FIELD WORK: APRIL 2022.
- NORTH ORIENTATION IS NAD 83 BASED ON MAP REFERENCE 1
- VERTICAL DATUM IS NAVD 88 BASED ON EXISTING BENCHMARKS AND GPS OBSERVATIONS.
- SUBJECT PARCEL IS DEPICTED AS LOT 107 ON ASSESSOR'S MAP 10.
- DEED REFERENCE: MICHAEL BUFFIN, JR. TO THE TOWN OF LISBON VOL.156, PG. 948.
- SUBSURFACE AND ENVIRONMENTAL CONDITIONS, OTHER THAN WETLAND DELINEATION, WERE NOT EXAMINED OR CONSIDERED AS A PART OF THIS SURVEY.
- THIS MAP AND SURVEY ARE VALID ONLY IF THE PRINT OR MYLAR CONTAINS THE EMBOSSED SEAL AND LIVE SIGNATURE OF THE SURVEYOR.

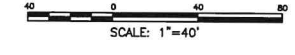
MAP REFERENCES

- PROPERTY SURVEY PREPARED FOR MICHAEL J. BUFFIN, JR. #25 NEWENT ROAD CT RTE 138 LISBON CONN. SCALE: 1"=40', JUNE 2006, BY KEVIN T EWALD LAND SURVEYOR, MIDDLETOWN, CONN.
- PLAN SHOWING PROPERTY OF DENISE C. ROBILIARD CONNECTICUT ROUTE 138 AKA NEWENT ROAD LISBON CONNECTICUT MAY 1997, SCALE: 1"=100', BY DIETER & GARDNER LAND SURVEYORS - PLANNERS
- ROAD RELOCATION MAP TOWN OF LISBON ROUTE 138 PROJECT 72-58 1965, SCALE: 1"=40', SHEETS 7 & 8 BY CONNECTICUT STATE HIGHWAY DEPARTMENT
- CONNECTICUT STATE HIGHWAY DEPARTMENT - RIGHT OF WAY MAP - TOWN OF LISBON NEWENT-JEWETT CITY ROAD FROM THE NORWICH-CANTERBURY ROAD EASTERLY TO THE NORWICH PUTNAM ROAD ROUTE 138, SCALE 1"=40', NUMBER 72-01, SHEET 1 OF 4
- MAP SHOWING LAND RELEASED TO TOWN OF LISBON BY THE STATE OF CONNECTICUT D.O.T NEWENT ROAD (CT ROUTE 138) SCALE: 1"=40' DATE: 07/14/17 SHEET: 1 OF 1 PROJECT NO. 72-58



LEGEND

- PROPERTY LINE
- DRAINAGE
- 52 --- CONTOUR
- CHAIN LINK FENCE
- WOODED AREA
- ☐ CATCH BASIN
- I.P. (F) ○ IRON PIN, IRON PIPE (FOUND)
- ☐ MS, CHD, MON (F) ☐ MERESTONE, CONNECTICUT HIGHWAY DEPT MONUMENT, MONUMENT (FOUND)
- ☼ TREE
- ⊕ FIRE HYDRANT
- ⊙ LAMP
- ⊙ UTILITY POLE
- ⊙ TEL TELEPHONE CAN OR BOX
- N/F NOW OR FORMALLY
- Vol. Pg. DEED VOLUME & PAGE
- EXPOSED LEDGE
- GUY WIRE
- OH OVERHEAD WIRES
- WETLAND EDGE
- ▲ WETFLAG



I HAVE REVIEWED THE WETLANDS ON THE PROPERTY IN THE FIELD AND HAVE REVIEWED THE WETLANDS AS SHOWN ON THE PLAN AND FIND THAT THEY SUBSTANTIALLY REPRESENT THE WETLANDS AS DELINEATED IN THE FIELD.

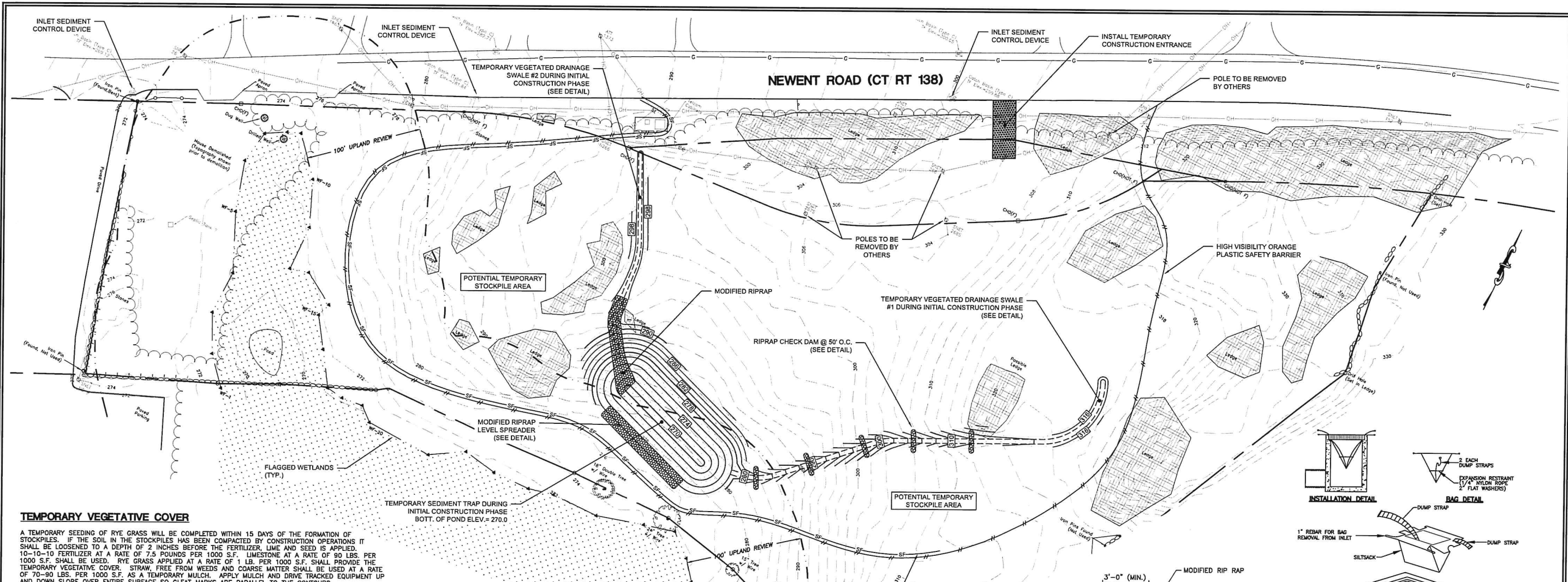
ROBERT C. RUSSO
CERTIFIED SOIL SCIENTIST

TO MY KNOWLEDGE AND BELIEF THIS PLAN IS SUBSTANTIALLY CORRECT AS NOTED OR DEPICTED HEREON.

RYAN J. CHEVERIE, L.L.S. #70454

<p>CLA Engineers, Inc. CIVIL • STRUCTURAL • SURVEYING</p> <p>317 Main Street Norwich, CT 06360 (860) 886-1986 Fax (860) 886-9165</p>		Project No. CLA-7093
		Proj. Engineer R.J.C.
<p>Property Of TOWN OF LISBON</p> <p>25 Newent Road Town of Lisbon, Connecticut</p>		Date: 06/01/22
<p>1</p>		Sheet No.



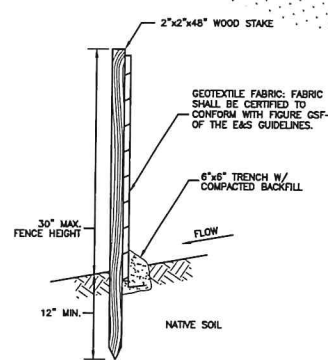


TEMPORARY VEGETATIVE COVER

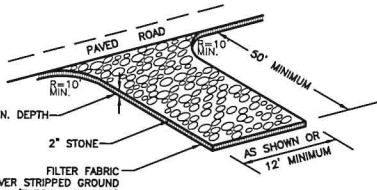
A TEMPORARY SEEDING OF RYE GRASS WILL BE COMPLETED WITHIN 15 DAYS OF THE FORMATION OF STOCKPILES. IF THE SOIL IN THE STOCKPILES HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS IT SHALL BE LOOSENED TO A DEPTH OF 2 INCHES BEFORE THE FERTILIZER, LIME AND SEED IS APPLIED. 10-10-10 FERTILIZER AT A RATE OF 7.5 POUNDS PER 1000 S.F., LIMESTONE AT A RATE OF 90 LBS. PER 1000 S.F. SHALL BE USED. RYE GRASS APPLIED AT A RATE OF 1 LB. PER 1000 S.F. SHALL PROVIDE THE TEMPORARY VEGETATIVE COVER. STRAW, FREE FROM WEEDS AND COARSE MATTER SHALL BE USED AT A RATE OF 70-90 LBS. PER 1000 S.F. AS A TEMPORARY MULCH. APPLY MULCH AND DRIVE TRACKED EQUIPMENT UP AND DOWN SLOPE OVER ENTIRE SURFACE SO CLEAT MARKS ARE PARALLEL TO THE CONTOURS.

EROSION & SEDIMENTATION CONTROL NARRATIVE

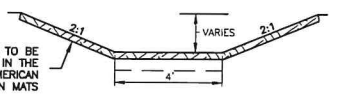
1. THE EROSION & SEDIMENTATION CONTROL PLAN AND DETAILS HAVE BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION. THIS PLAN IS BASED ON THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEEP.
2. THE PROPOSED LOCATIONS OF SILTATION AND EROSION CONTROL MEASURES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROVIDE SILT FENCE, STONE CHECK DAMS AND/OR OTHER EROSION CONTROL MEASURES AS NEEDED OR DIRECTED BY THE ENGINEER OR TOWN STAFF TO ADEQUATELY PREVENT SEDIMENT TRANSPORT.
3. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO SITE DISTURBANCE. TOWN STAFF SHALL REVIEW AND APPROVE THE INSTALLATION PRIOR TO EXCAVATION.
4. THE CONTRACTOR SHALL INSPECT, REPAIR AND/OR REPLACE EROSION CONTROL MEASURES EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT. SEDIMENT DEPOSITS MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED.
5. INLET SEDIMENTATION CONTROL DEVICES SHALL BE INSTALLED UNDER THE GRATES OF ALL NEW CATCH BASINS AT THE TIME OF INSTALLATION, AND UNDER THE GRATES OF EXISTING CATCH BASINS IN THE CONSTRUCTION AREA.
6. CONTINUOUS DUST CONTROL USING WATER, CALCIUM CHLORIDE OR APPROVED EQUAL SHALL BE PROVIDED FOR ALL EARTH STOCKPILES, EARTH PILED ALONG EXCAVATIONS, SURFACES OF BACKFILLED TRENCHES AND GRAVELED ROADWAY SURFACES.
7. ALL DISTURBED AREAS SHALL BE RESTORED PER THE SLOPE STABILIZATION AND PERMANENT VEGETATION DETAILS. ALL DISTURBED AREAS THAT ARE SLOPED LESS THAN THREE HORIZONTAL TO ONE VERTICAL (3:1) SLOPE SHALL BE LOAMED, SEEDED, FERTILIZED AND MULCHED PER THE PERMANENT VEGETATIVE COVER SPECIFICATIONS. EROSION CONTROL MATTING SHALL BE PROVIDED ON ALL DISTURBED AREAS WITHIN 10 FEET OF THE STREAM BED AND THAT ARE SLOPED MORE THAN THREE HORIZONTAL TO ONE VERTICAL (3:1).
8. IF FINAL SEEDING OF DISTURBED AREAS IS NOT TO BE COMPLETED BEFORE OCTOBER 15, THE CONTRACTOR SHALL PROVIDE TEMPORARY MULCHING (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY PERMANENT SEEDING.
9. WHEN FEASIBLE, TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINISHED GRADED SHALL BE COMPLETED PRIOR TO OCTOBER 15.
10. ANY EROSION WHICH OCCURS WITHIN THE DISTURBED AREAS SHALL BE IMMEDIATELY REPAIRED AND STABILIZED. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT SHALL BE RETURNED TO THE SITE. POST SEEDING, INTERCEPTED SEDIMENT, IF ANY, SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE TOWN AND ENGINEER.
11. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL VEGETATION IS RE-ESTABLISHED OR SLOPES ARE STABILIZED AND REMOVAL IS APPROVED BY THE TOWN.
12. UNFORESEEN PROBLEMS WHICH ARE ENCOUNTERED IN THE FIELD SHALL BE SOLVED ACCORDING TO THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEEP.



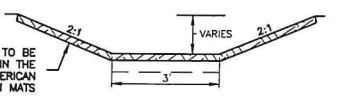
SILT FENCE SECTION
NOT TO SCALE



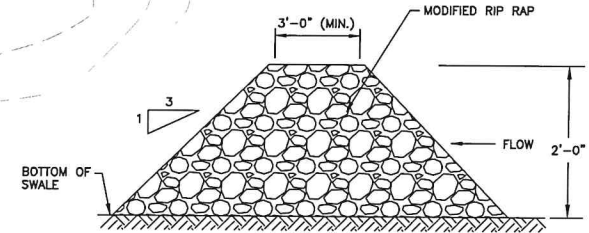
CONSTRUCTION ENTRANCE
NOT TO SCALE



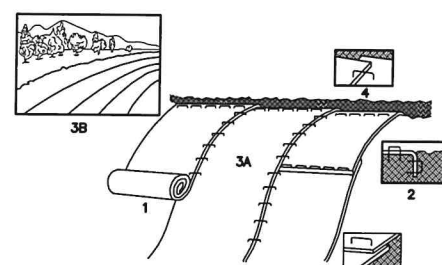
TEMPORARY VEGETATED SWALE #1
NOT TO SCALE



TEMPORARY VEGETATED SWALE #2
NOT TO SCALE

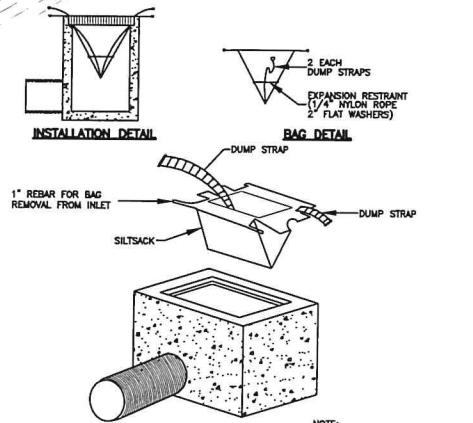


RIP-RAP CHECK DAM
NOT TO SCALE



1. EROSION CONTROL MATTING SHALL BE INSTALLED FOR ALL SLOPES WITHIN 10 FEET OF STREAM BED AND SLOPES MORE THAN THREE HORIZONTAL TO ONE VERTICAL (3:1).
2. PROVIDE 4" THICKNESS OF TOPSOIL OVER GLEM FILL. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED MIX PER PERMANENT VEGETATIVE COVER NOTES.
3. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP x 6" WIDE TRENCH, BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
4. ROLL THE BLANKET (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE.
5. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
6. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHOULDER STITCH) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.

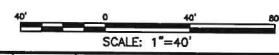
NOTE: ALL PERMANENT EROSION CONTROL BLANKETS ARE TO BE NORTH AMERICAN GREEN BIONET C1258M OR APPROVED EQUAL.



INLET SEDIMENT CONTROL DEVICE DETAIL
NOT TO SCALE

TEMPORARY SEDIMENT TRAP NARRATIVE

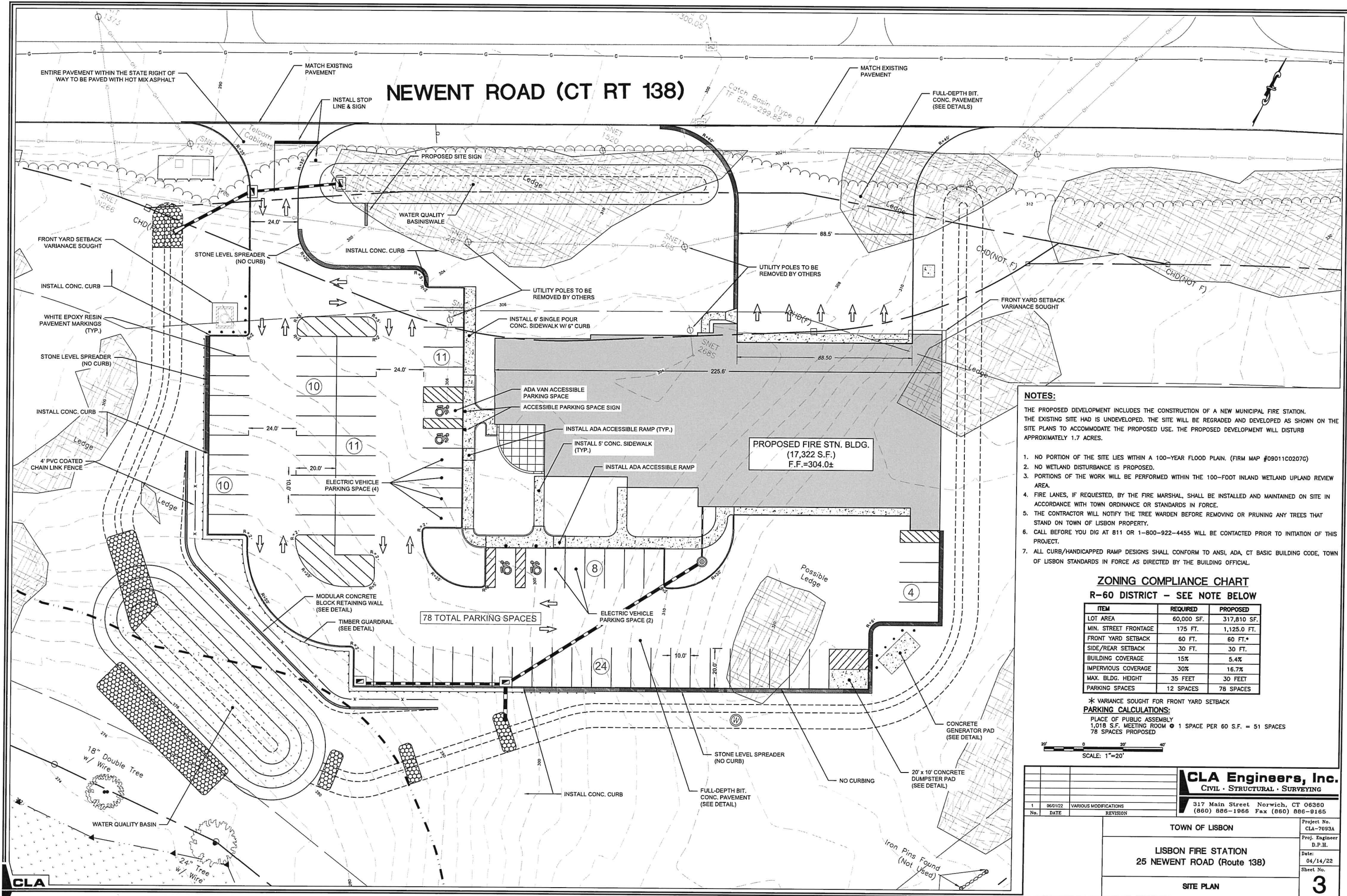
- THE PROPOSED PERMANENT STORMWATER BASIN IS LOCATED AT THE LOWEST ELEVATION OF THE SITE TOPOGRAPHY AND WILL BE USED DURING CONSTRUCTION AS A TEMPORARY SEDIMENT TRAP. THE TRAP WILL BE EXCAVATED TO 6 INCHES ABOVE DESIGN DEPTH PRIOR TO THE COMMENCEMENT OF OTHER SITE GRADING.
1. THE TRAP WILL BE INSPECTED AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS AFTER ANY RAINFALL OF 0.5 INCHES OR GREATER.
 2. THE SEDIMENT TRAP WILL BE CLEANED WHEN SEDIMENT ACCUMULATION EXCEEDS ONE HALF OF THE AVAILABLE WET STORAGE CAPACITY. SEDIMENTS REMOVED FROM THE SEDIMENT TRAPS WILL BE PLACED OUTSIDE OF THE UPLAND REVIEW ZONE IN THE DESIGNATED STOCKPILE AREA.
 3. PRIOR TO COMPLETING THE BASIN, EXISTING SEDIMENT LOCATED IN THE BASIN BOTTOM SHALL BE REMOVED TO A DEPTH OF 6" BELOW FINISHED GRADE. IMMEDIATELY FOLLOWING THE GRADING, THE BASIN SHALL BE LOAMED AND SEEDED.
 4. A MINIMUM OF 6" OF TOPSOIL SHALL BE INSTALLED AND ALL AREAS PLANTED WITH SEED MIXES AND VEGETATION IN ACCORDANCE WITH THE TEMPORARY SEEDING REQUIREMENTS.



<p>CLA Engineers, Inc. CIVIL · STRUCTURAL · SURVEYING</p> <p>317 Main Street Norwich, CT 06360 (860) 886-1966 Fax (860) 886-9165</p>		Project No. CLA-7093A
		Proj. Engineer D.P.H.
<p>TOWN OF LISBON</p> <p>LISBON FIRE STATION 25 NEWENT ROAD (Route 138)</p> <p>EROSION AND SEDIMENTATION CONTROL PLAN</p>		Date: 04/14/22
<p>No. DATE REVISION</p>		Sheet No. 2

MA170001700017093A Lisbon Fire Headquarters\Drawings\7093A E&S Plan.dwg, 6/2/2022 8:09:39 AM

NEWENT ROAD (CT RT 138)



- NOTES:**
1. NO PORTION OF THE SITE LIES WITHIN A 100-YEAR FLOOD PLAIN. (FIRM MAP #0901C02076)
 2. NO WETLAND DISTURBANCE IS PROPOSED.
 3. PORTIONS OF THE WORK WILL BE PERFORMED WITHIN THE 100-FOOT INLAND WETLAND UPLAND REVIEW AREA.
 4. FIRE LANES, IF REQUESTED, BY THE FIRE MARSHAL, SHALL BE INSTALLED AND MAINTAINED ON SITE IN ACCORDANCE WITH TOWN ORDINANCE OR STANDARDS IN FORCE.
 5. THE CONTRACTOR WILL NOTIFY THE TREE WARDEN BEFORE REMOVING OR PRUNING ANY TREES THAT STAND ON TOWN OF LISBON PROPERTY.
 6. CALL BEFORE YOU DIG AT 811 OR 1-800-922-4455 WILL BE CONTACTED PRIOR TO INITIATION OF THIS PROJECT.
 7. ALL CURB/HANDICAPPED RAMP DESIGNS SHALL CONFORM TO ANSI, ADA, CT BASIC BUILDING CODE, TOWN OF LISBON STANDARDS IN FORCE AS DIRECTED BY THE BUILDING OFFICIAL.

ZONING COMPLIANCE CHART
R-60 DISTRICT - SEE NOTE BELOW

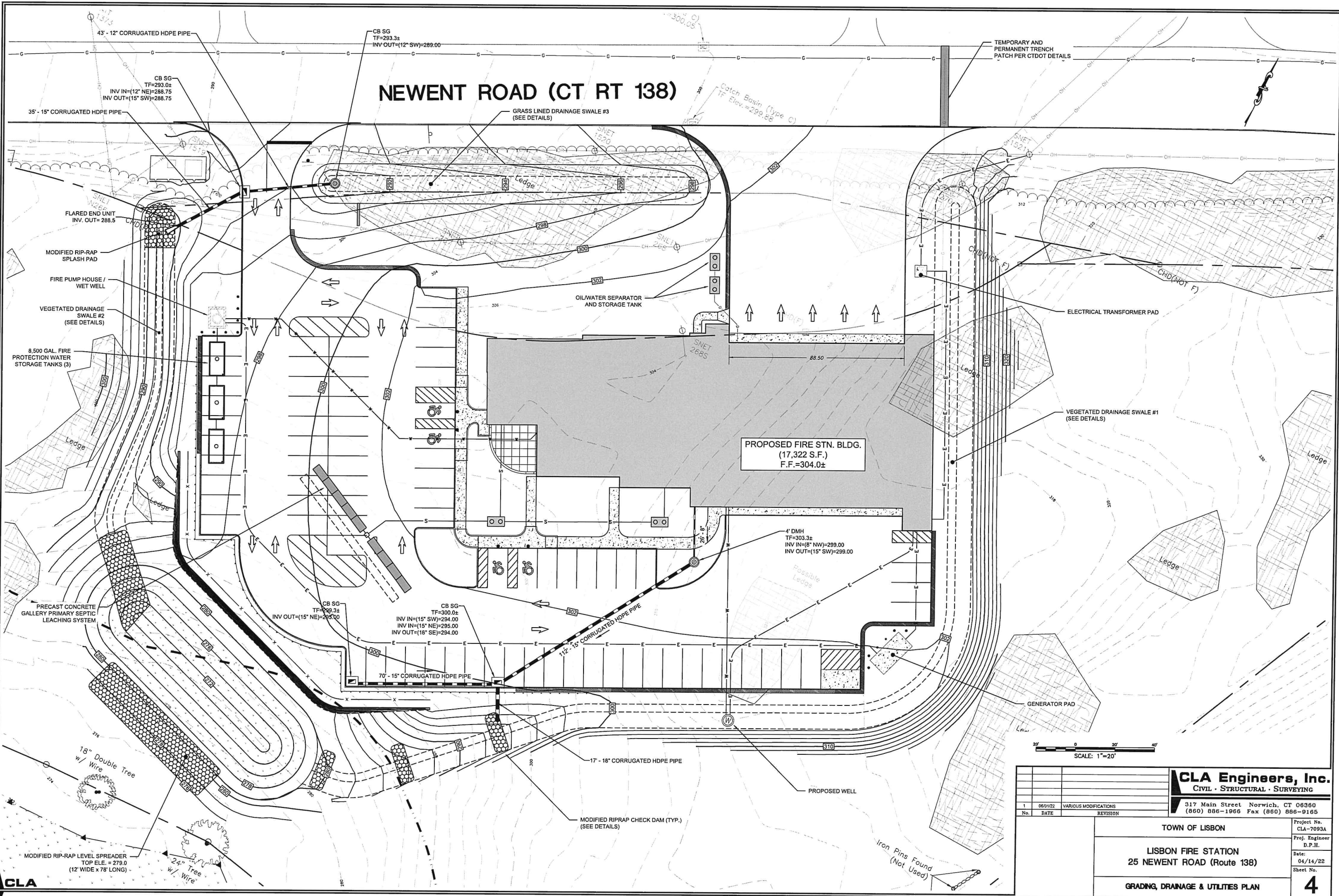
ITEM	REQUIRED	PROPOSED
LOT AREA	60,000 SF.	317,810 SF.
MIN. STREET FRONTAGE	175 FT.	1,125.0 FT.
FRONT YARD SETBACK	60 FT.	60 FT.*
SIDE/REAR SETBACK	30 FT.	30 FT.
BUILDING COVERAGE	15%	5.4%
IMPERVIOUS COVERAGE	30%	16.7%
MAX. BLDG. HEIGHT	35 FEET	30 FEET
PARKING SPACES	12 SPACES	78 SPACES

* VARIANCE SOUGHT FOR FRONT YARD SETBACK
PARKING CALCULATIONS:
 PLACE OF PUBLIC ASSEMBLY
 1,018 S.F. MEETING ROOM @ 1 SPACE PER 60 S.F. = 51 SPACES
 78 SPACES PROPOSED



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		Proj. Engineer D.P.H.
TOWN OF LISBON		Date: 04/14/22
LISBON FIRE STATION 25 NEWENT ROAD (Route 138)		Sheet No. 3
SITE PLAN		

NEWENT ROAD (CT RT 138)

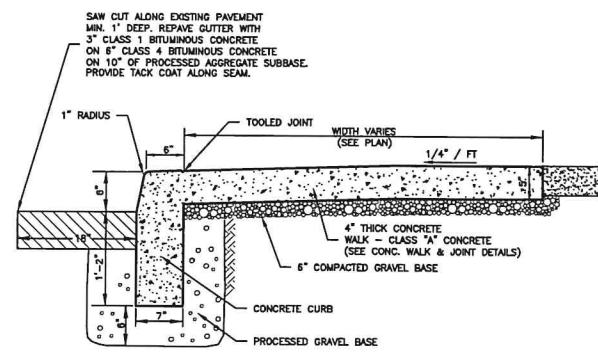


SCALE: 1"=20'

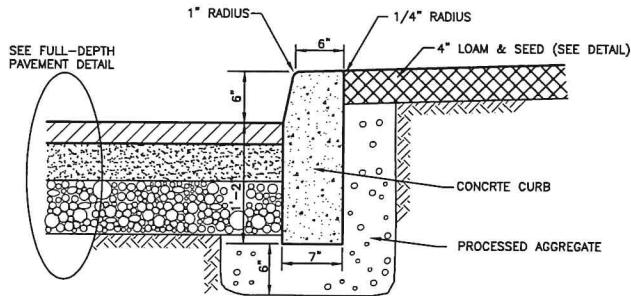
CLA Engineers, Inc. CIVIL · STRUCTURAL · SURVEYING 317 Main Street Norwich, CT 06360 (860) 886-1966 Fax (860) 886-9165											
<table border="1"> <thead> <tr> <th>No.</th> <th>DATE</th> <th>REVISION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>06/01/22</td> <td>VARIOUS MODIFICATIONS</td> </tr> <tr> <td></td> <td></td> <td>REVISION</td> </tr> </tbody> </table>	No.	DATE	REVISION	1	06/01/22	VARIOUS MODIFICATIONS			REVISION	TOWN OF LISBON LISBON FIRE STATION 25 NEWENT ROAD (Route 138) GRADING, DRAINAGE & UTILITIES PLAN	Project No. CLA-7093A Proj. Engineer D.P.H. Date: 04/14/22 Sheet No. 4
No.	DATE	REVISION									
1	06/01/22	VARIOUS MODIFICATIONS									
		REVISION									

MA7000\7093A Lisbon Fire Headquarters\Drawings\7093A Grading, Drainage & Utility Plan.dwg, 6/22/2022, 8:09:59 AM

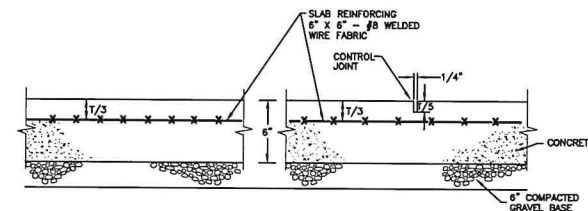




SINGLE POUR CONCRETE CURB & SIDEWALK
NOT TO SCALE

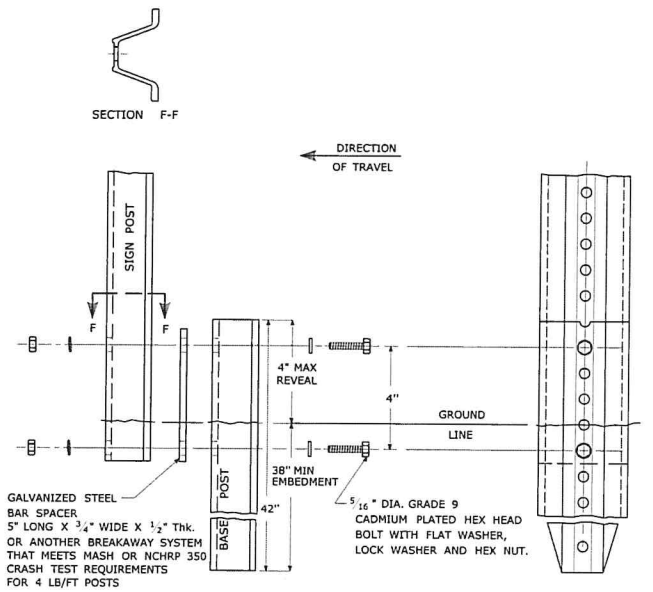


CONCRETE CURB DETAIL
NOT TO SCALE

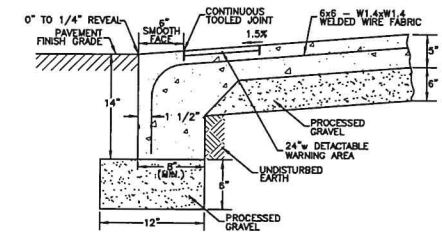


CONCRETE PAD DETAIL
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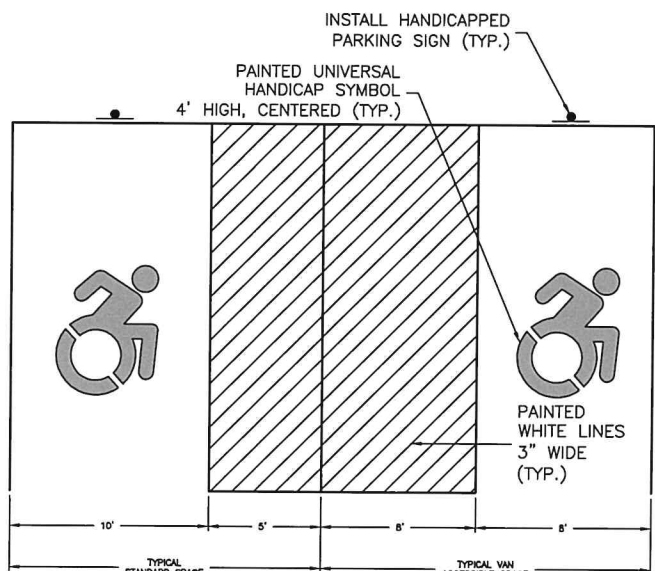
BREAKAWAY INSTALLATION
FOR 4 LBS./FT. POSTS



BREAKAWAY INSTALLATION
FOR 4 LBS./FT. POSTS

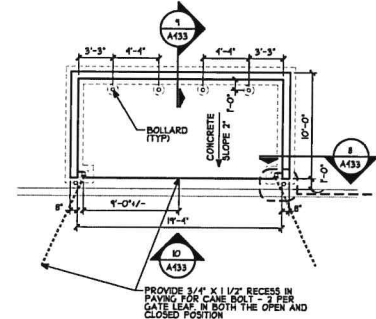


CURB RAMP SECTION
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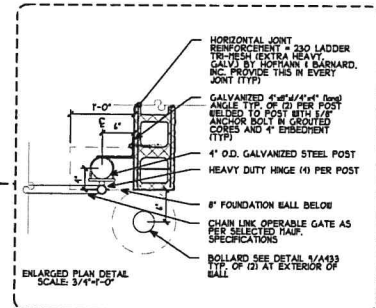


NOTES:
1. ALL ADA ACCESSIBLE SIGNING, DIMENSIONS AND SPACE MARKINGS SHALL BE IN ACCORDANCE WITH CGS 14-253az(h) AND THE 2003 PORTION OF THE STATE BUILDING CODE

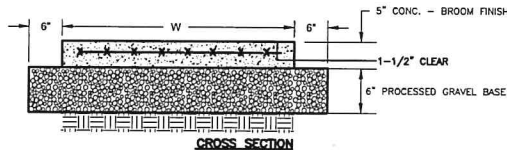
ADA ACCESSIBLE PARKING SPACE DETAIL
NOT TO SCALE



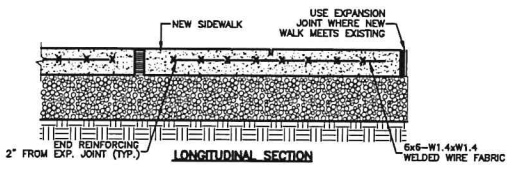
TRASH ENCLOSURE PLAN DETAIL
A433 SCALE: 1/8" = 1'-0"



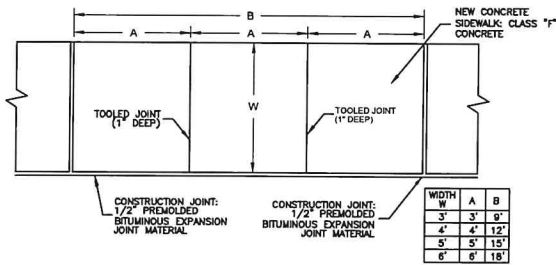
ENLARGED PLAN DETAIL
SCALE: 3/4" = 1'-0"



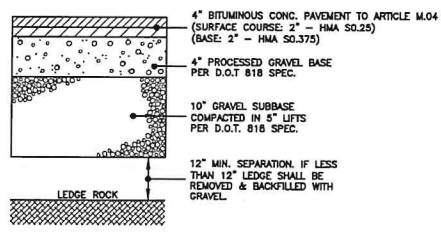
CROSS SECTION



LONGITUDINAL SECTION

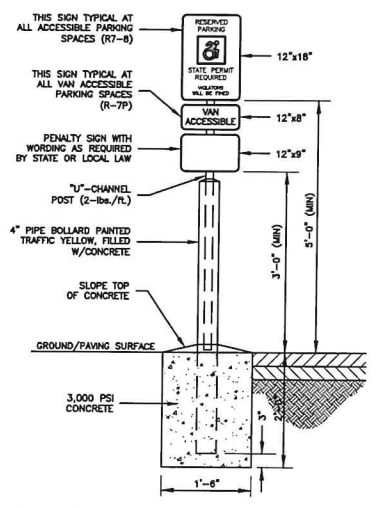


CONCRETE WALK & JOINT DETAIL
NOT TO SCALE

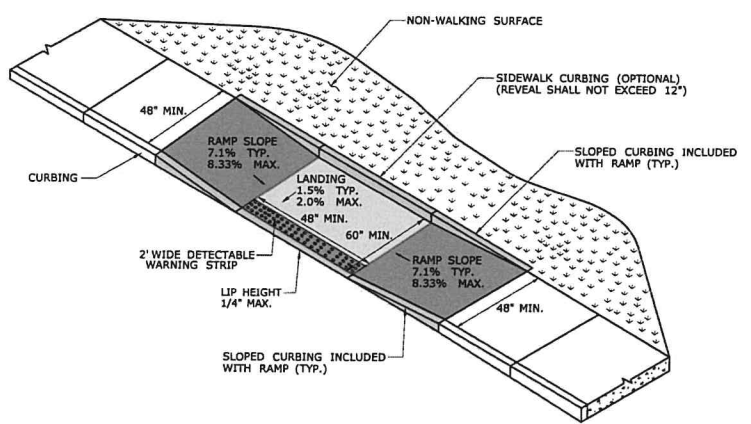


NOTES:
1. PROVIDE CONTINUOUS TACK COAT ALONG EDGE WHEN MATCHING EXISTING PAVEMENT
2. CONTRACTOR TO PROVIDE COMPACTION ON ALL TRENCH BACKFILLS, EXCAVATIONS AND PAVEMENT BASES TO NOT LESS THAN 95% OF THE DRY DENSITY FOR THAT MATERIAL WHEN TESTED IN ACCORDANCE WITH AASHTO T180, METHOD D

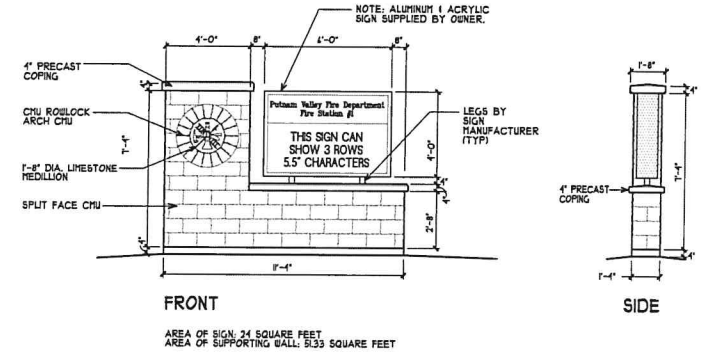
FULL-DEPTH PAVEMENT SECTION DETAIL
NOT TO SCALE



ADA ACCESSIBLE PARKING SIGN DETAIL
NOT TO SCALE



PARALLEL RAMP WITHOUT NON-WALKING SURFACE (TYPE 9)

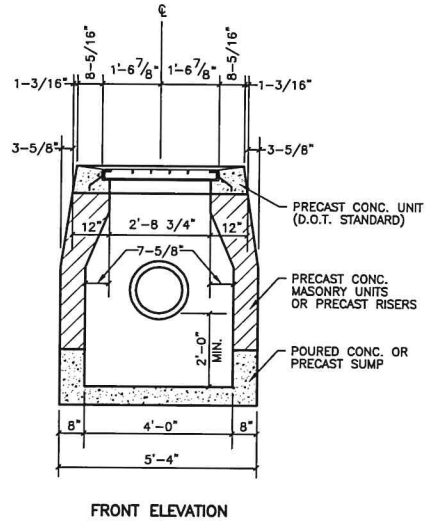


FRONT
AREA OF SIGN: 24 SQUARE FEET
AREA OF SUPPORTING WALL: 533 SQUARE FEET

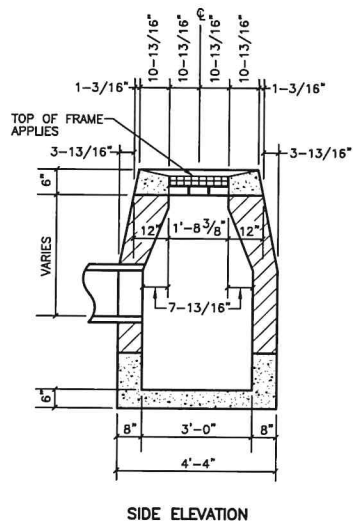
SIDE

CLA Engineers, Inc. CIVIL • STRUCTURAL • SURVEYING		Project No. CLA-7093A
317 Main Street Norwich, CT 06360 (860) 888-1966 Fax (860) 886-9165		Proj. Engineer D.P.H.
TOWN OF LISBON		Date: 04/14/22
LISBON FIRE STATION 25 NEWENT ROAD (Route 138)		Sheet No.
DETAILS (1 of 2)		5

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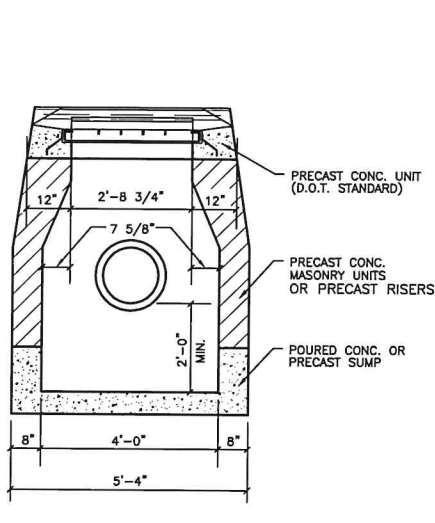


FRONT ELEVATION

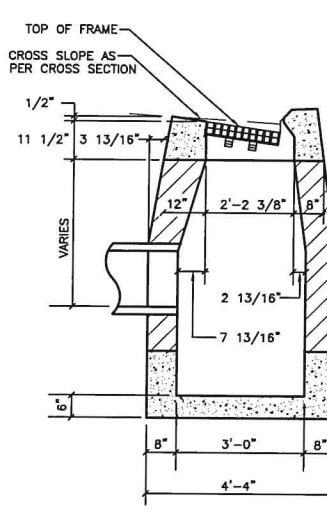


SIDE ELEVATION

TYPE "C-L" CATCH BASIN
NOT TO SCALE

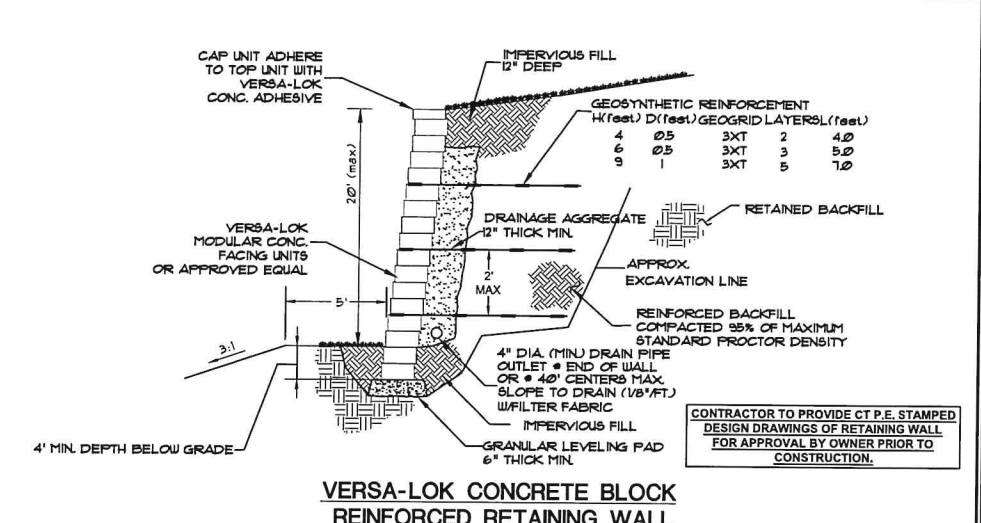


FRONT ELEVATION



SIDE ELEVATION

TYPE "C" CATCH BASIN DETAIL
NOT TO SCALE



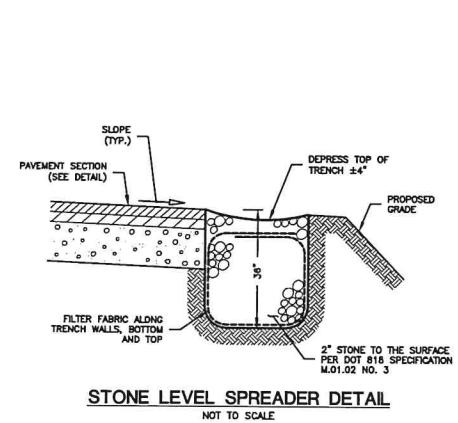
VERSA-LOK CONCRETE BLOCK
REINFORCED RETAINING WALL
(OR APPROVED EQUAL)

CONTRACTOR TO PROVIDE CT P.E. STAMPED
DESIGN DRAWINGS OF RETAINING WALL
FOR APPROVAL BY OWNER PRIOR TO
CONSTRUCTION.

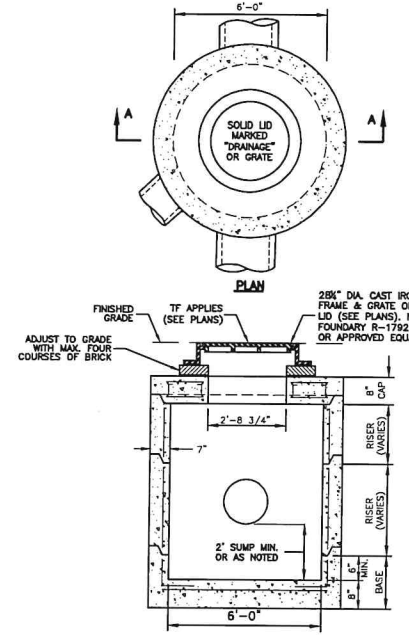
MODULAR CONCRETE UNIT
NOT TO SCALE

GENERAL NOTES

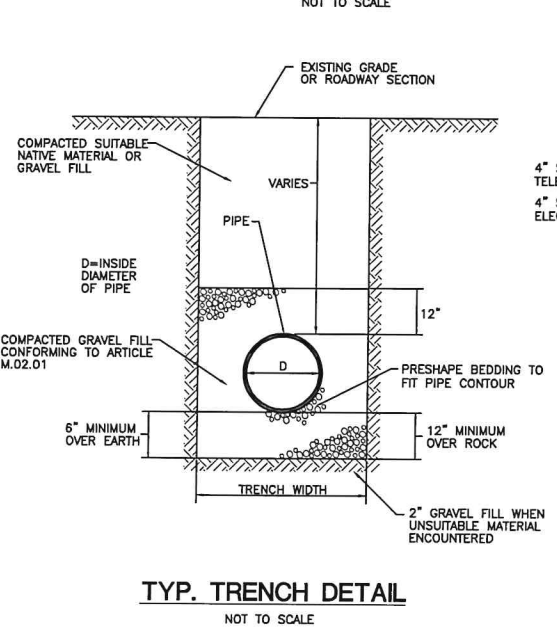
- STRIP VEGETATION AND ORGANIC SOIL FROM WALL AND GEOSYNTHETIC ALIGNMENT.
- BENCH CUT ALL EXCAVATED SLOPES.
- DO NOT OVER EXCAVATE UNLESS DIRECTED BY SITE SOIL ENGINEER TO REMOVE UNSUITABLE SOIL.
- SITE SOILS ENGINEER SHALL VERIFY FOUNDATION SOILS AS BEING COMPETENT PER THE DESIGN STANDARDS AND PARAMETERS.
- LEVELING PAD SHALL CONSIST OF COMPACTED COARSE SAND OR CRUSHED GRAVEL, 6" THICK MIN.
- CONTRACTOR MAY OPT FOR A LEAN CONCRETE PAD. CONCRETE PAD SHALL BE UNREINFORCED, 3" THICK MAXIMUM.
- MINIMUM EMBEDMENT OF WALL BELOW FINISH GRADE SHALL BE 6" FOR WALL HEIGHTS UNDER 4 FT. AND 12" FOR WALLS OVER 4 FT. UNLESS SHOWN DIFFERENTLY.
- FOR UNITS TO BE EMBEDDED, COMPACT FILL IN FRONT OF UNITS AT THE SAME TIME FILL BEHIND UNITS IS COMPACTED.
- DRAINAGE AGGREGATE SHALL BE INSTALLED DIRECTLY BEHIND THE WALL WITHIN 12" OF THE TOP OF THE WALL. DRAINAGE AGGREGATE SHALL NOT EXTEND BELOW FINAL GRADE IN FRONT OF WALL.
- COMPACTION SHALL BE TO 95% OF MAXIMUM STANDARD PROCTOR DENSITY (ASTM D-698)
- COMPACTION TESTS SHALL BE TAKEN AS THE WALL IS INSTALLED. THE MINIMUM NUMBER OF TESTS SHALL BE DETERMINED BY THE SITE SOILS ENGINEER.
- COMPACTION WITHIN 3 FT. OF WALL SHALL BE LIMITED TO HAND OPERATED EQUIPMENT.
- SEE ELEVATION DRAWINGS FOR GEOSYNTHETIC TYPE, LENGTH AND LOCATION REQUIRED.
- GEOSYNTHETIC SHALL BE PLACED WITH STRONGEST DIRECTION PERPENDICULAR TO WALL. FOLLOW GEOSYNTHETIC MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WRITTEN SPECIFICATIONS.
- CONTRACTOR SHALL DIRECT SURFACE RUNOFF TO AVOID DAMAGING WALL WHILE UNDER CONSTRUCTION.
- ANY SURFACE DRAINAGE FEATURES, FINISH GRADING, PAVEMENT, OR TURF SHALL BE INSTALLED IMMEDIATELY AFTER WALL IS COMPLETED.
- FOLLOW APPLICABLE PROVISIONS OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WRITTEN SPECIFICATIONS.



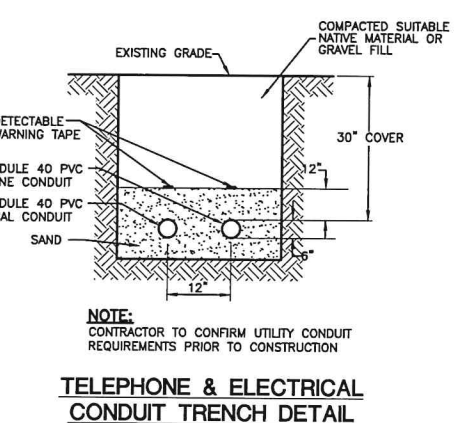
STONE LEVEL SPREADER DETAIL
NOT TO SCALE



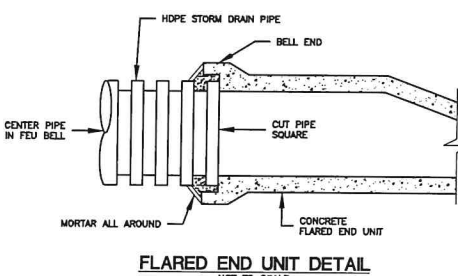
SECTION A-A
DRAINAGE MANHOLE DETAIL
NOT TO SCALE



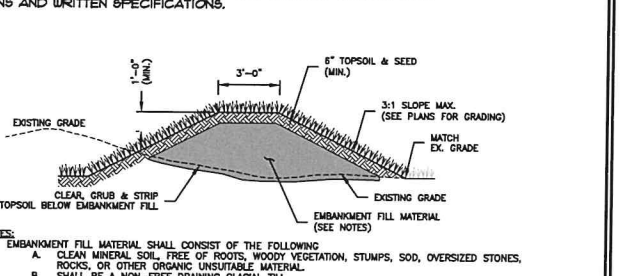
TYP. TRENCH DETAIL
NOT TO SCALE



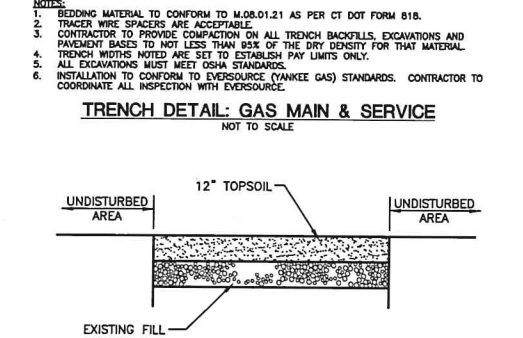
TELEPHONE & ELECTRICAL
CONDUIT TRENCH DETAIL
NOT TO SCALE



FLARED END UNIT DETAIL
NOT TO SCALE

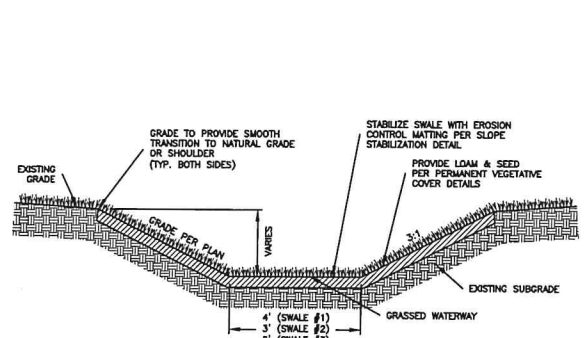


STORMWATER QUALITY BASIN EMBANKMENT FILL SECTION DETAIL
NOT TO SCALE

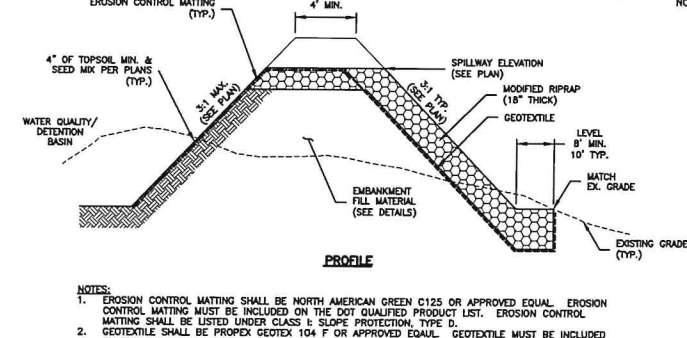


TRENCH DETAIL: GAS MAIN & SERVICE
NOT TO SCALE

LOAM & SEED CROSS-SECTION DETAIL
NOT TO SCALE



GRASS LINED DRAINAGE SWALE



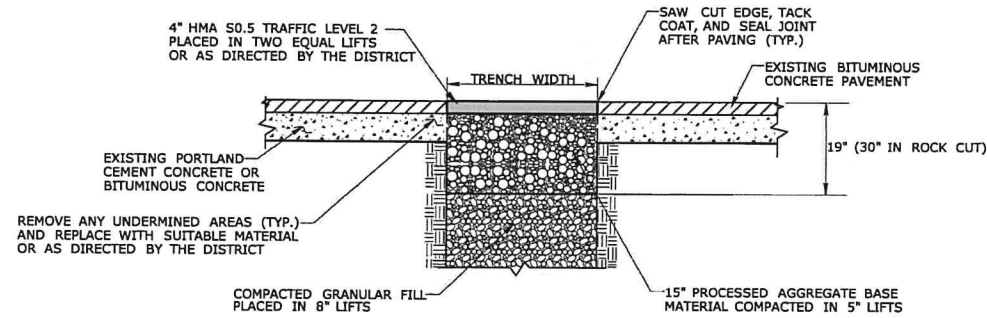
STORMWATER QUALITY BASIN OUTLET DETAIL
NOT TO SCALE

- NOTES:
- BEDDING MATERIAL TO CONFORM TO M.08.01.21 AS PER CT DOT FORM 818.
 - TRACER WIRE SPACERS ARE ACCEPTABLE.
 - CONTRACTOR TO PROVIDE COMPACTION ON ALL TRENCH BACKFILLS, EXCAVATIONS AND PAVEMENT BASES TO NOT LESS THAN 95% OF THE DRY DENSITY FOR THAT MATERIAL. TRENCH WIDTHS NOTED ARE SET TO ESTABLISH PAY LINES ONLY.
 - ALL EXCAVATIONS MUST MEET OSHA STANDARDS.
 - INSTALLATION TO CONFORM TO EVERSOURCE (YANKEE GAS) STANDARDS. CONTRACTOR TO COORDINATE ALL INSPECTION WITH EVERSOURCE.

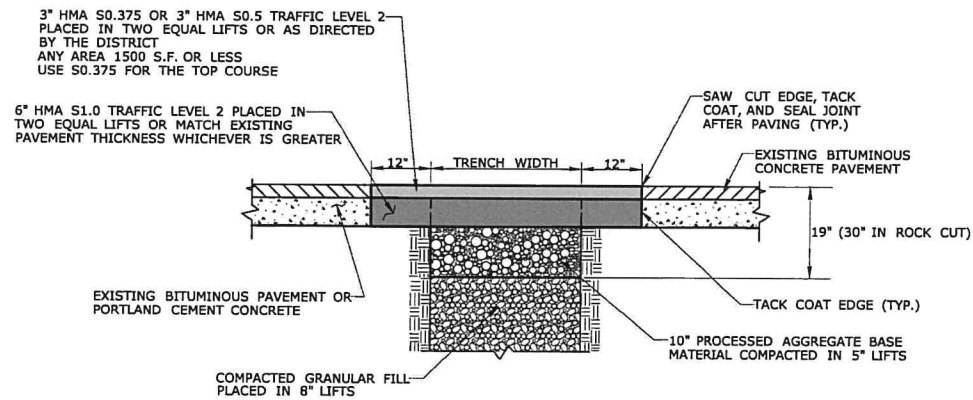
- NOTES:
- EROSION CONTROL MATTING SHALL BE NORTH AMERICAN GREEN C125 OR APPROVED EQUAL. EROSION CONTROL MATTING MUST BE INCLUDED ON THE DOT QUALIFIED PRODUCT LIST. EROSION CONTROL MATTING SHALL BE LISTED UNDER CLASS E SLOPE PROTECTION, TYPE D.
 - GEOTEXTILE SHALL BE PROPRX GEOTEX 104 F OR APPROVED EQUAL. GEOTEXTILE MUST BE INCLUDED ON THE DOT QUALIFIED PRODUCT LIST. GEOTEXTILE SHALL BE LISTED UNDER EROSION CONTROL, CLASS A.

<p>CLA Engineers, Inc. Civil · Structural · Surveying</p> <p>317 Main Street Norwich, CT 06360 (860) 886-1966 Fax (860) 886-9165</p>		<p>Project No. CLA-7093A</p> <p>Proj. Engineer D.P.H.</p> <p>Date: 04/14/22</p> <p>Sheet No. 6</p>
<p>TOWN OF LISBON</p> <p>LISBON FIRE STATION 25 NEWENT ROAD (Route 138)</p> <p>DETAILS (2 of 2)</p>		

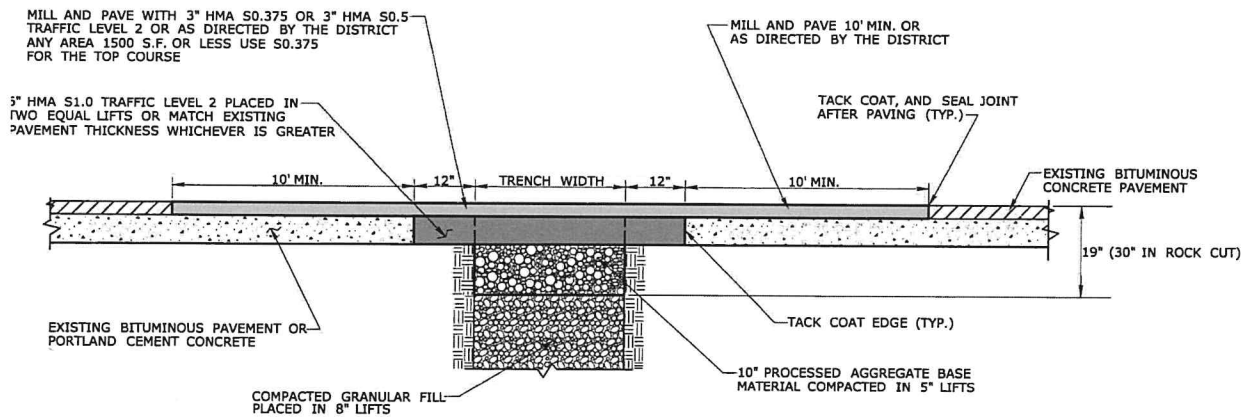
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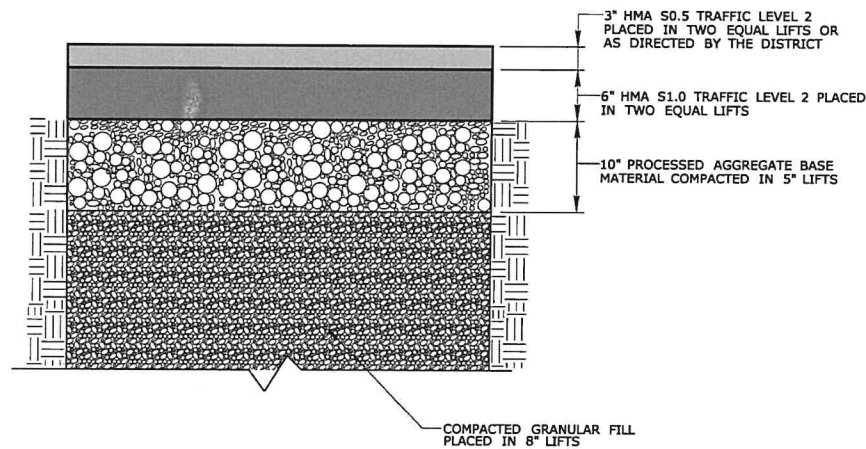
TEMPORARY PAVEMENT REPAIR FOR TRENCH THROUGH OVERLAID PORTLAND CEMENT CONCRETE OR BITUMINOUS CONCRETE PAVEMENT



PERMANENT PAVEMENT REPAIR WITHOUT MILLING - THROUGH PORTLAND CEMENT CONCRETE OR BITUMINOUS CONCRETE PAVEMENT



PERMANENT PAVEMENT REPAIR WITH MILLING



ROADWAY PROFILE

GENERAL NOTES:

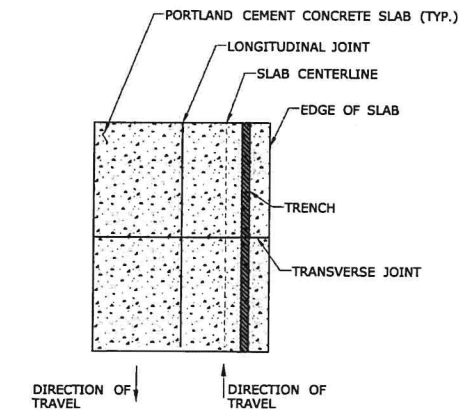
1. LONGITUDINAL TRENCHING FOR JOINTED CONCRETE PAVEMENT:

- A. IF THE LONGITUDINAL TRENCH FALLS BETWEEN THE SLAB CENTERLINE AND THE EDGE OF SLAB, REMOVE CONCRETE AND BITUMINOUS CONCRETE PAVEMENT FROM THE TRENCH EDGE TO THE EDGE OF ROAD. IF THE LONGITUDINAL TRENCH FALLS BETWEEN THE LONGITUDINAL JOINT AND THE SLAB CENTERLINE, REMOVE THE ENTIRE CONCRETE SLAB AND BITUMINOUS CONCRETE PAVEMENT TO THE EDGE OF ROAD. IN EITHER CASE REBUILD WITH THE FOLLOWING:
 - a. PLACE HMA S1.0 TRAFFIC LEVEL 2 IN TWO EQUAL 4" - 5" LIFTS TO MATCH EXISTING CONCRETE PAVEMENT THICKNESS
 - b. PLACE HMA S0.5 TRAFFIC LEVEL 2 IN 2" - 3" LIFTS TO MATCH EXISTING BITUMINOUS CONCRETE PAVEMENT THICKNESS, WITH THE FINAL LIFT BEING 2"

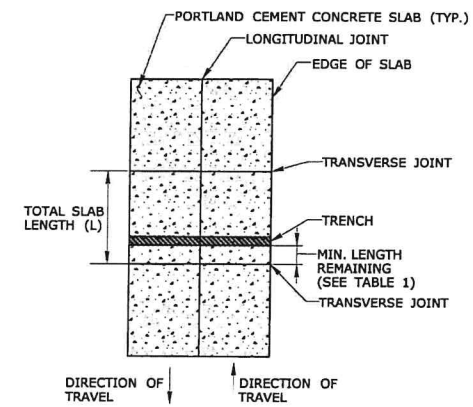
2. TRANSVERSE TRENCHING FOR JOINTED CONCRETE PAVEMENT:

TABLE 1	
TOTAL SLAB LENGTH (L)	MIN. LENGTH REMAINING
40' OR LONGER	1/4 L
15' - 40'	10'
15' OR SHORTER	REBUILD TO NEAREST JOINT

- A. FOR TRANSVERSE TRENCHES, THE MINIMUM SLAB LENGTH AS SHOWN IN TABLE 1 SHALL BE LEFT IN PLACE TO THE NEAREST TRANSVERSE JOINT. IF THIS CRITERIA CANNOT BE MET, THE EXISTING SLAB AREA FROM THE TRENCH EDGE TO THE NEAREST TRANSVERSE JOINT SHALL BE REMOVED AND REBUILT AS FOLLOWS:
 - a. PLACE HMA S1.0 TRAFFIC LEVEL 2 IN TWO EQUAL 4" - 5" LIFTS TO MATCH EXISTING CONCRETE PAVEMENT THICKNESS
 - b. PLACE HMA S0.5 TRAFFIC LEVEL 2 IN 2" - 3" LIFTS TO MATCH EXISTING BITUMINOUS CONCRETE PAVEMENT THICKNESS, WITH THE FINAL LIFT BEING 2"

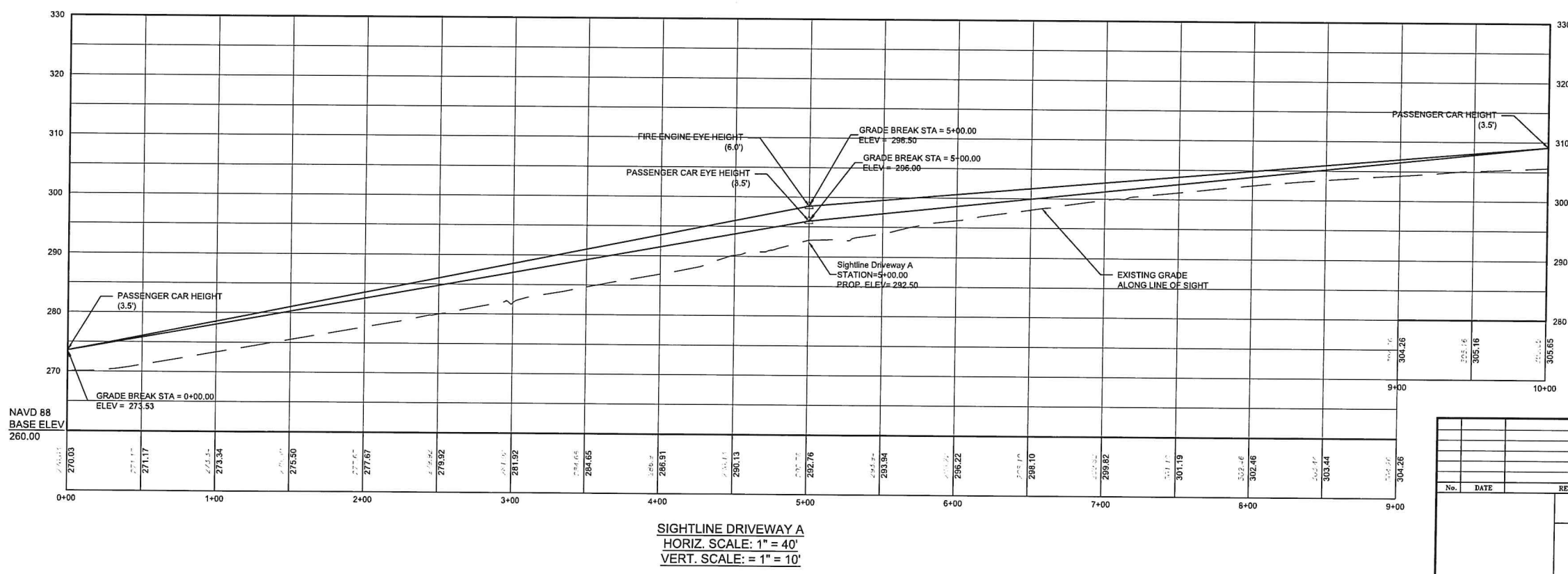
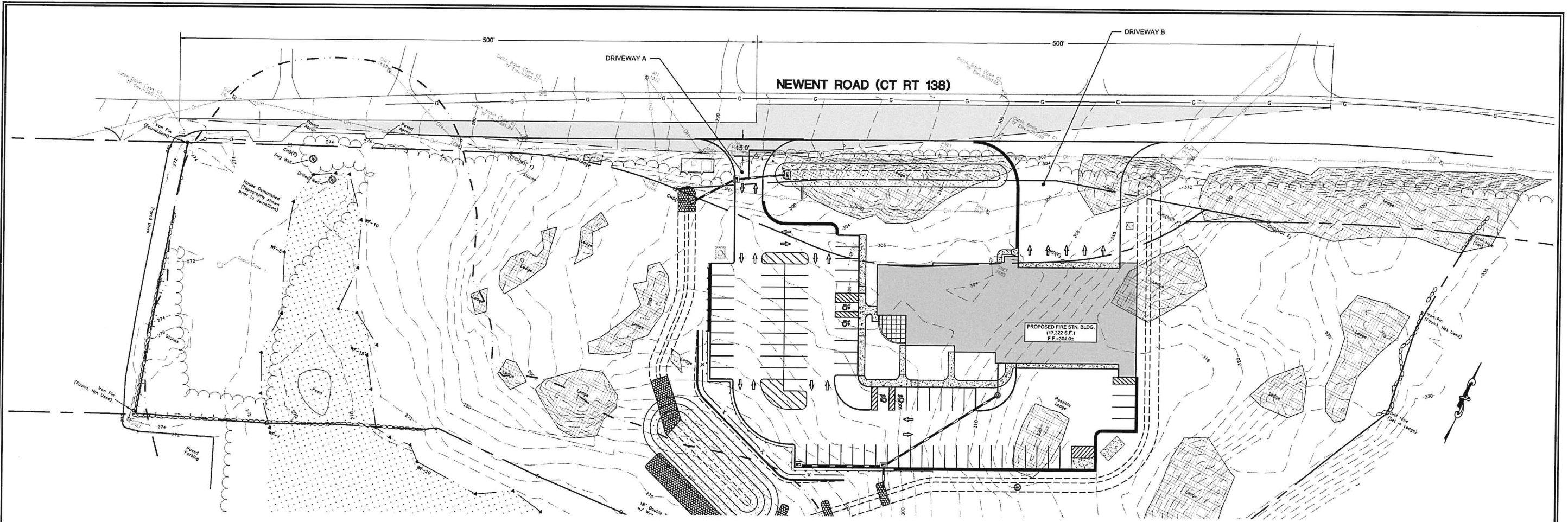


LONGITUDINAL TRENCHING FOR JOINTED CONCRETE PAVEMENT (SEE NOTE 1)

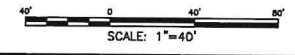


TRANSVERSE TRENCHING FOR JOINTED CONCRETE PAVEMENT (SEE NOTE 2)

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No.	DATE	REVISION	
TOWN OF LISBON			Project No. CLA-7093A
LIBSON FIRE STATION 25 NEWENT ROAD (Route 138)			Proj. Engineer D.F.H.
CTDOT TRENCH DETAILS			Date: 04/14/22
			Sheet No. 7



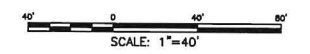
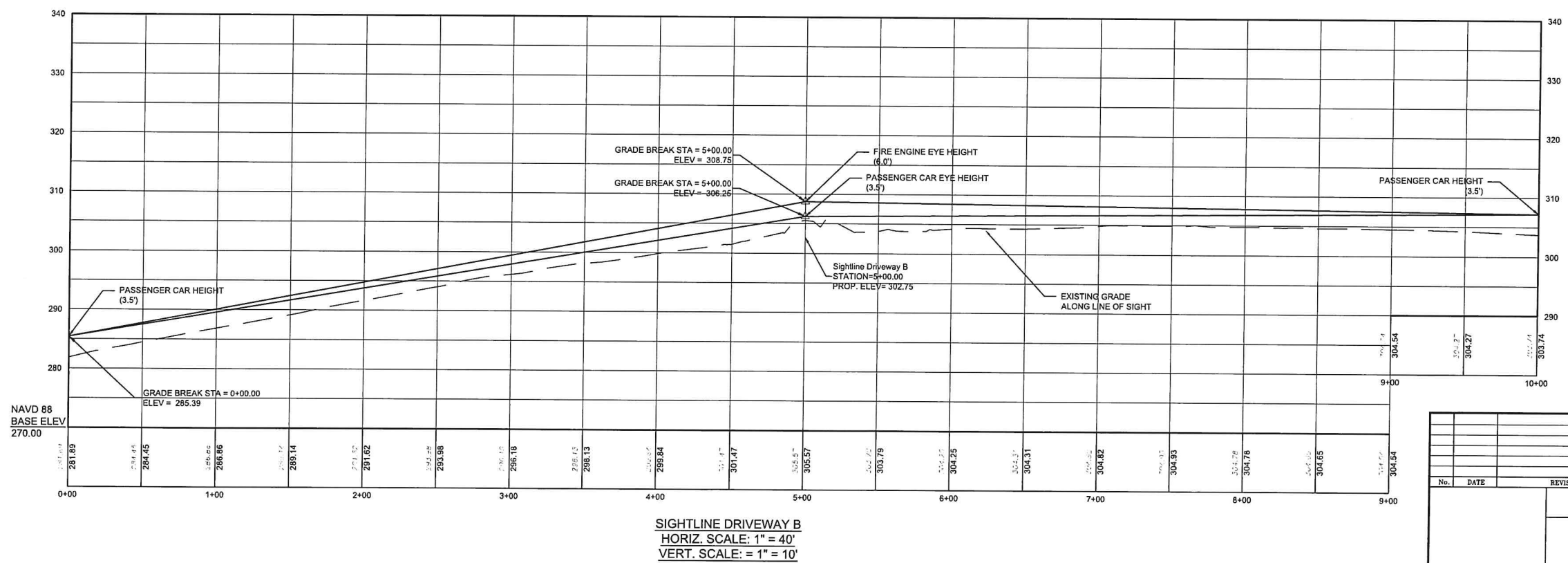
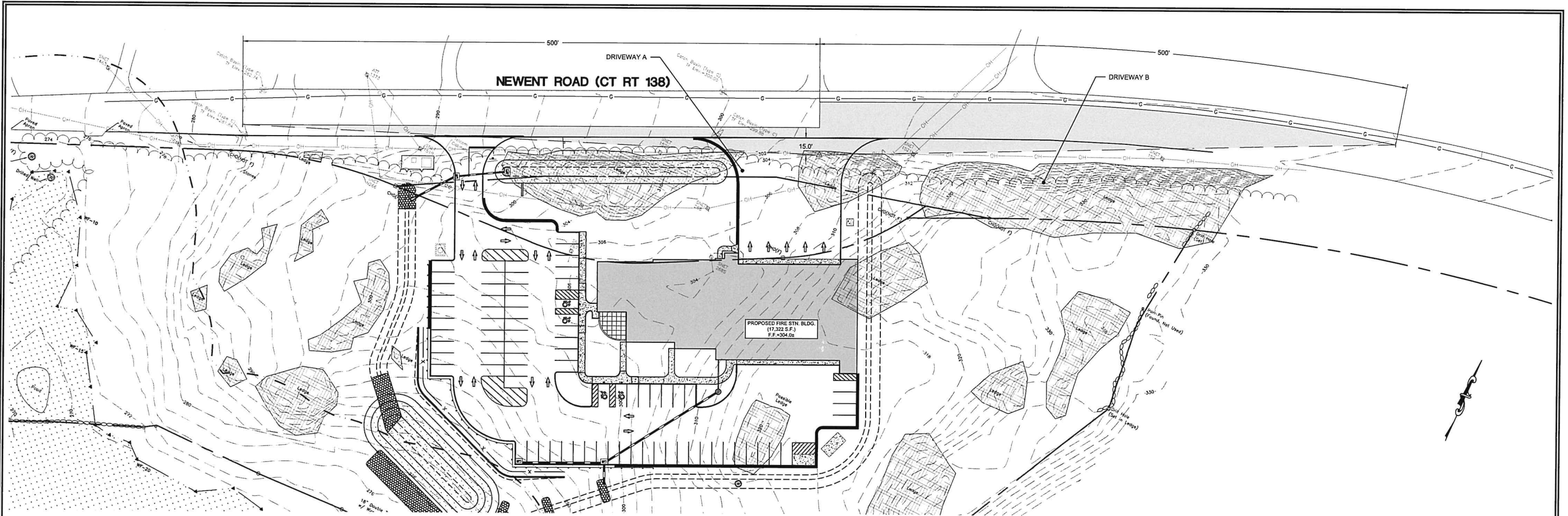
SIGHTLINE DRIVEWAY A
 HORIZ. SCALE: 1" = 40'
 VERT. SCALE: 1" = 10'



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TOWN OF LISBON LISBON FIRE STATION 25 NEWENT ROAD (Route 138)		8
DRIVEWAY 'A' SIGHT LINE		

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		Prof. Engineer D.P.H.
TOWN OF LISBON LISBON FIRE STATION 25 NEWENT ROAD (Route 138)		Date: 04/14/22
		Sheet No. 9

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CONSTRUCTION NOTES

1. THE SEWAGE DISPOSAL SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE CONNECTICUT PUBLIC HEALTH CODE
2. THE 'TECHNICAL STANDARDS' SHALL BE THE CONNECTICUT DEPARTMENT OF PUBLIC HEALTH ON-SITE SEWAGE DISPOSAL REGULATIONS AND TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS.
3. ALL EXISTING UTILITIES TO BE ACCURATELY LOCATED PRIOR TO CONSTRUCTION. EXCAVATE TEST HOLES AS NEEDED TO LOCATE UNDERGROUND UTILITIES.
4. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND MAINTAINED IN ACCORDANCE WITH THE EROSION AND SEDIMENTATION CONTROL PLAN.
5. CALL BEFORE YOU DIG SHALL BE CONTACTED AT 811 AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
6. CLEAR AND GRUB THE AREA WHERE THE SEPTIC SYSTEM IS TO BE CONSTRUCTED. ALL TOPSOIL IS TO BE STRIPPED AND STOCKPILED FOR FUTURE USE.
7. TOPSOIL SHALL BE RE-APPLIED OVER ALL FILL AREAS BEYOND PROPOSED PAVEMENT, AND ALL DISTURBED AREAS TO PROVIDE A MINIMUM DEPTH OF FOUR INCHES.
8. PROPOSED SEPTIC SYSTEM TO BE STAKED IN THE FIELD BY A LAND SURVEYOR LICENSED IN THE STATE OF CONNECTICUT. A BENCHMARK SHALL BE SET WITHIN 10'-15' OF THE PROPOSED SEPTIC SYSTEM PRIOR TO CONSTRUCTION.
9. ALL NEW STORM DRAINAGE STRUCTURES AND PIPE LESS THAN 25 FEET FROM THE NEW SEPTIC SYSTEM SHALL BE WATER TIGHT IN ACCORDANCE WITH TABLE 1 OF THE TECHNICAL SPECIFICATIONS.
10. SEWER LINE FROM FOUNDATION WALL TO SEPTIC TANK SHALL BE 6" SCHEDULE 40 PVC - ASTM D 1785 AND JOINTS PER HEALTH DEPT. CODE.
11. PIPE FROM SEPTIC TANK TO LEACHING GALLERY SHALL BE 6" SOLID PVC CONFORMING TO ASTM D-3034 AND SDR-35.

Town of Lisbon Proposed Fire Department Headquarters (17,275 Sq. Ft.)

Volunteer Department (No full-time employees, No Bunking)
Design Flow has been determined based on water use data of similar facilities.

Facility	Date	Water Used (GPD)	Building Size (Sq. Ft.)	Type of Fire Department Facility
Armonk, NY	2004-2013	249	26,800	Volunteer department, no bunking in, runs ambulances (52% of calls), plus used an additional 53 gpd for truck washing & tank top up
Canton, NY	2003-2013	521	17,627	Volunteer department, 73% of calls are ambulance. Usage includes truck fill & washing incl. members cars.
Sandwich, MA	2012-2013	276	14,828	Has 3 bunkers
Kingston, PA	2/13 - 11/13	357	18,237	Fully Occupied Career Department with shifts of 6 plus administration. 4" meter averages 72 gpd. 6 Career firefighters at all times, plus volunteers
Northside Fire Station (Waterford, NY)	2005-2013	222	10,506	Volunteer department, no bunking in.
Philipsstown, NY	2010	136	16,801	Volunteer department, no bunking in.
Avg.		293.5		
Factor of Safety		2		
Proposed Design Flow		587		
Say		600	GPD	

TEST HOLE DATA:

RECORDED BY ROBERT RUSSO OF
CLA ENGINEERS, INC. ON FEBRUARY 8, 2022

TEST HOLE-6

TOTAL DEPTH : 80"
BEDROCK: 80"
WATER: NONE
MOTTLES: NONE
ROOTS: 44"
0-7" TOPSOIL, DARK BROWN, FINE SANDY LOAM
7-44" SUBSOIL, GRAY, BROWN FINE SANDY LOAM
44-80" GRAY FINE SANDY LOAM W/ STONES AND TRACE GRAVEL

TEST HOLE-14

TOTAL DEPTH : 82"
BEDROCK: 72"
WATER: NONE
MOTTLES: 68"
0-10" TOPSOIL, BROWN, FINE SANDY LOAM
10-27" SUBSOIL, YELLOW, BROWN FINE SANDY LOAM
27-82" GRAY, GREEN LOAMY SAND W/ COBBLES & STONES

TEST HOLE-21

TOTAL DEPTH : 24-37"
BEDROCK: 24-37"
WATER: NONE
MOTTLES: NONE
0-7" TOPSOIL
7- 24 TO 37" SUBSOIL, BROWN FINE SANDY LOAM W/
BROKEN LEDGE/ROTTEN PIECES

TEST HOLE-22

TOTAL DEPTH : 70"
BEDROCK: 65"
WATER: NONE
MOTTLES: NONE
0-9" TOPSOIL, DARK BROWN, FINE SANDY LOAM
9-47" SUBSOIL, YELLOW, BROWN FINE SANDY LOAM
47-65" GRAY, GREEN LOAMY SAND W/ GRAVEL
65-70" ROTTEN ROCK

TEST HOLE DATA:

RECORDED BY ASA BENDER OF
CLA ENGINEERS, INC. ON MARCH 25, 2022

TEST HOLE-8B

ROCK: 92"
WATER: NONE

TEST HOLE-10B

ROCK: 70"
WATER: NONE

SEPTIC SYSTEM DESIGN:

PRIMARY SYSTEM: BASED ON T.P.#10B & 14
PERCOLATION RATE: 5.1 MIN./INCH (PERC. #2)
PROPOSED VOLUNTEER FIRE STATION
DESIGN FLOW RATE = 600 G.P.D.
APPLICATION RATE = 1.5
EFFECTIVE LEACHING AREA REQUIRED = 600/1.5 = 400 SF
USE A 18" DEEP x 48" WIDE PRECAST CONCRETE GALLERY (H-20 LOADING)
EFFECTIVE LEACHING AREA OF GALLERY = 5.2 SF/LF
LENGTH OF SYSTEM REQUIRED = (400 SF)/(5.2 SF/LF) = 84.5 LF
SLOPE = 12.0%
DEPTH TO RESTRICTIVE LAYER = 70" (TH #10B ROCK)
MLSS NEED NOT BE CONSIDERED
USE 9 No. 8-Ft LONG GALLERIES IN SINGLE ROW
LEACHING AREA PROVIDED = 446.4 SF

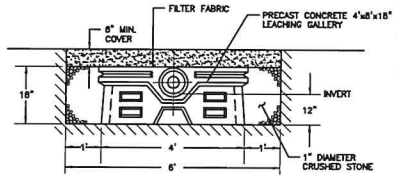
RESERVE SYSTEM: BASED ON PRIMARY SYSTEM

Percolation Test #2:

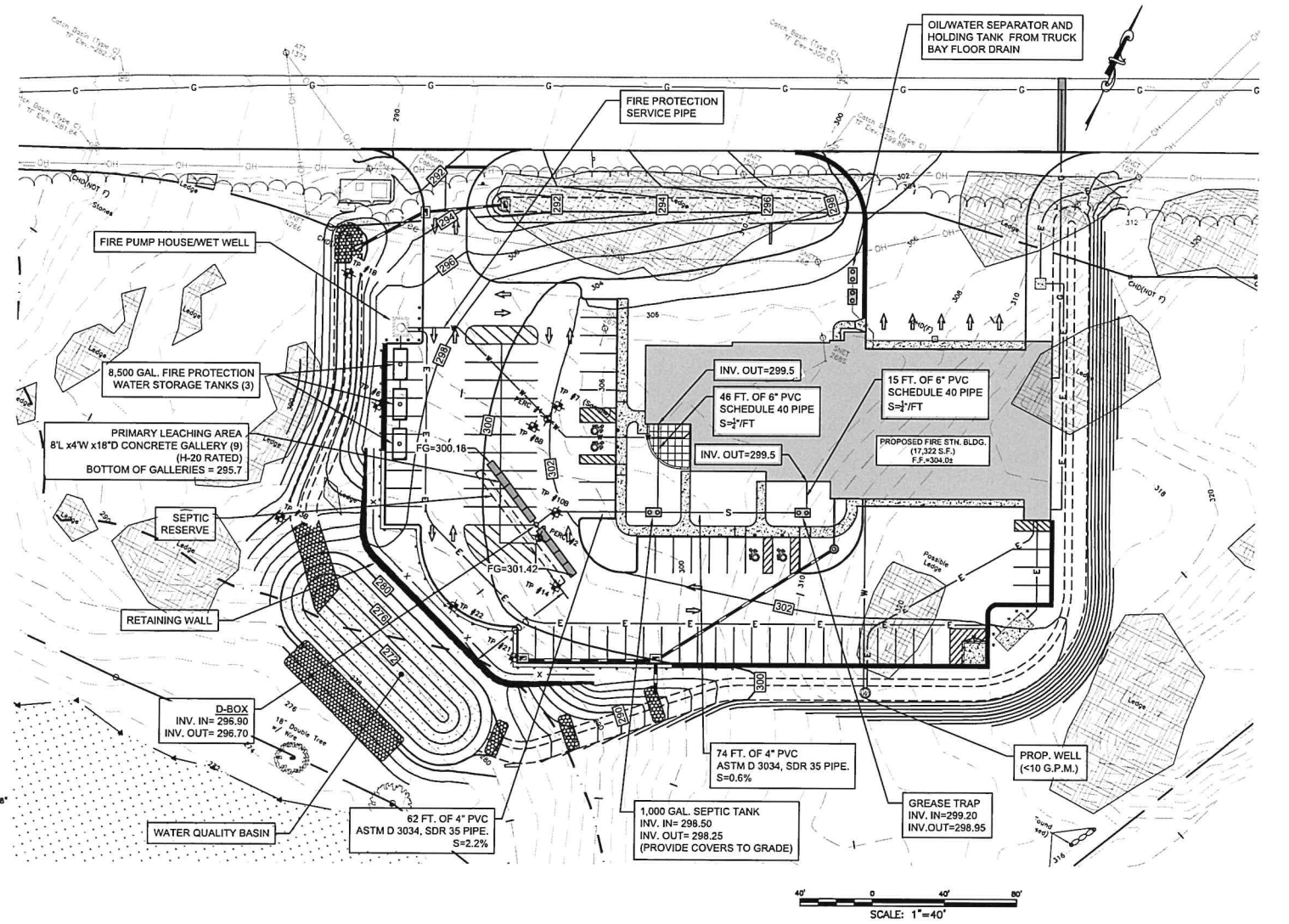
Pre-soak, 2:00 PM 4/11/2022
Start Depth: 20"
Fill at 3:10 pm

Time	Duration (Mins)	Measure Down (Inches)	Depth (Inches)	Change (Inches)	Cumulative Change
3:10:00 PM		5.5	29.5	0	
3:14:00 PM	4	8.5	32.5	3	3
3:18:00 PM	4	10.25	34.25	1.75	4.75
3:22:00 PM	4	11.5	35.5	1.25	6
3:26:00 PM	4	12.5	36.5	1	7
3:30:00 PM	4	13.5	37.5	1	8
3:34:00 PM	4	14.5	38.5	1	9
3:38:00 PM	4	15.5	39.5	1	10
3:42:00 PM	4	16.375	40.375	0.875	10.875
3:46:00 PM	4	17.25	41.25	0.875	11.75
3:50:00 PM	4	18	42	0.75	12.5
3:54:00 PM	4	18.75	42.75	0.75	13.25
3:58:00 PM	4	19.5	43.5	0.75	14
4:00:00 PM	2	20	44	0.5	14.5

Change in Depth (Last 4 Readings) 2.75 Inches
Time Taken 14:00 Mins
Percolation Rate 5.1 Mins/Inch



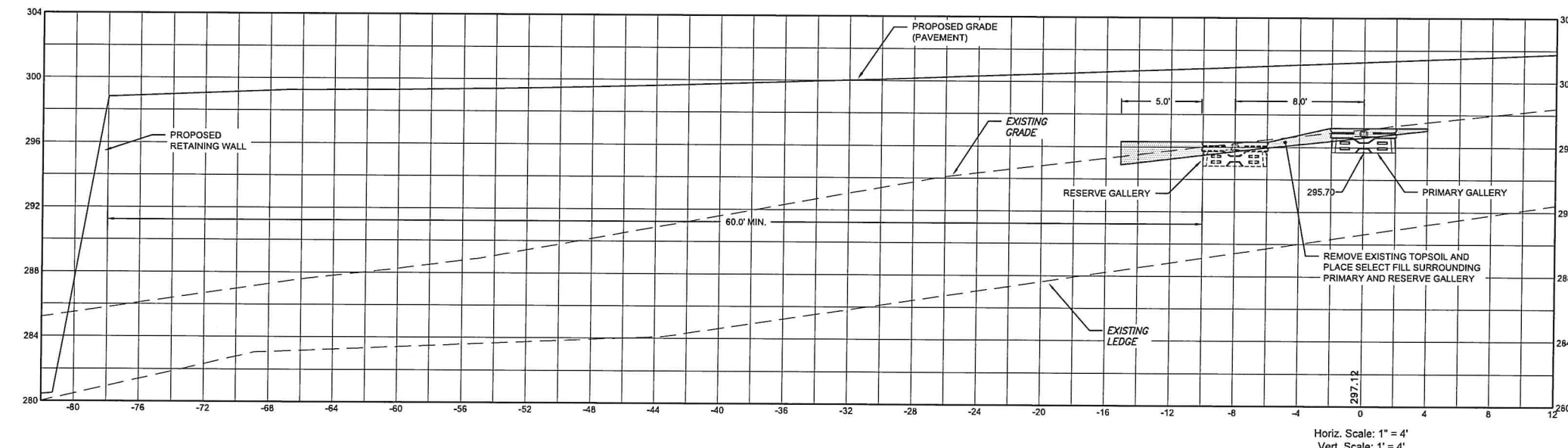
TYPICAL 18" LEACHING GALLERY (H-20 RATED)
NOT TO SCALE



LEGEND

- PROPERTY LINE
- DRAINAGE
- CONTOUR
- CHAIN LINK FENCE
- WOODED AREA
- CATCH BASIN
- IRON PIN, IRON PIPE (FOUND)
- MERESTONE, CONNECTICUT HIGHWAY DEPT MONUMENT, MONUMENT (FOUND)
- TREE
- UTILITY POLE
- TELEPHONE CAN OR BOX
- NOW OR FORMALLY DEED VOLUME & PAGE
- EXPOSED LEDGE
- GUY WIRE
- OVERHEAD WIRES
- WETLAND EDGE
- WETLAND FLAG

STANDARD D-BOX
NOT TO SCALE



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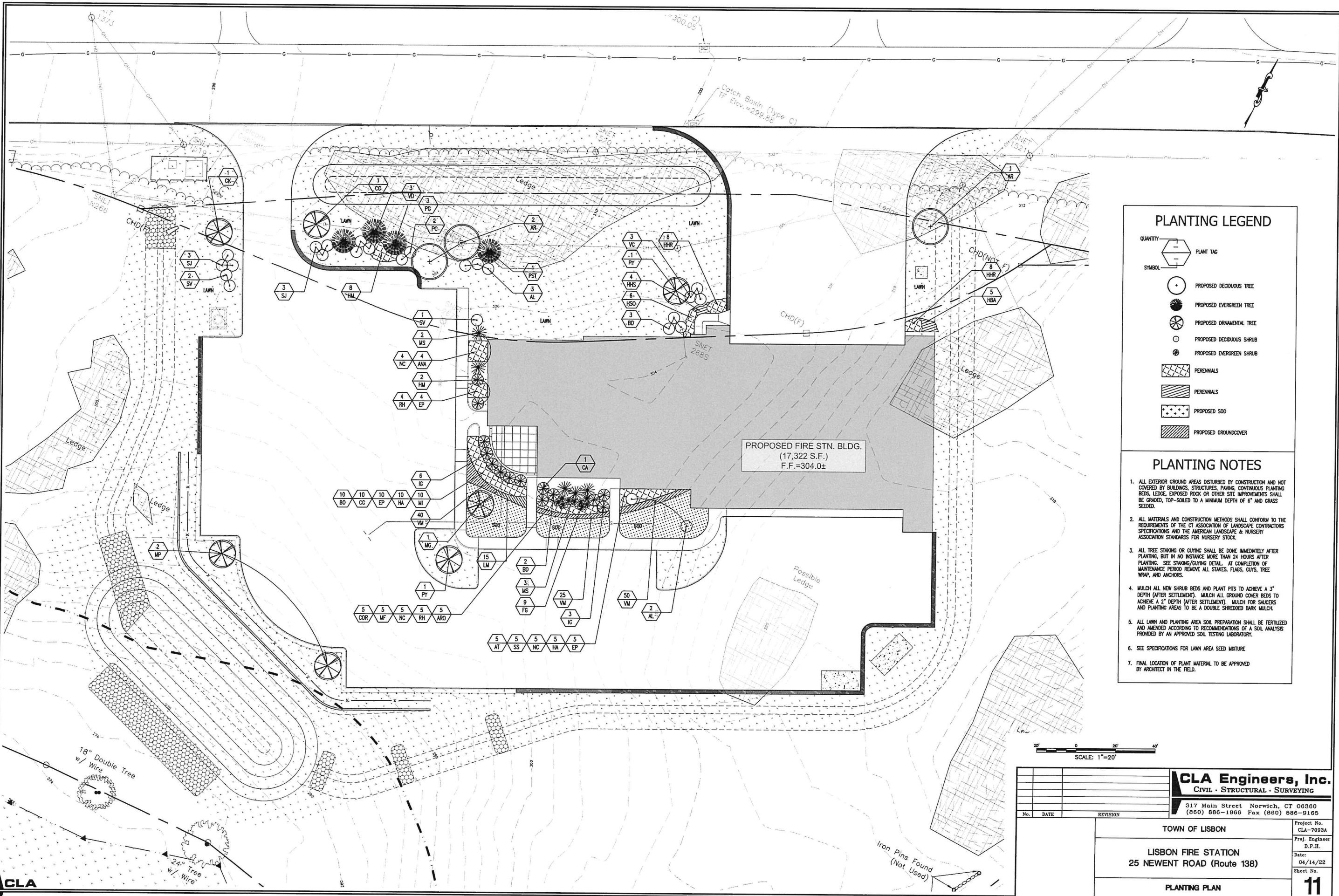
317 Main Street Norwich, CT 06360
(860) 886-1966 Fax (860) 886-9185

TOWN OF LISBON

LISBON FIRE STATION
25 NEWENT ROAD (Route 138)

SEPTIC SYSTEM DESIGN

Project No. CLA-7093A
Proj. Engineer D.P.H.
Date: 04/14/22
Sheet No. **10**



PLANTING LEGEND

- QUANTITY: [Symbol] PLANT TAG
- SYMBOL: [Symbol] PROPOSED DECIDUOUS TREE
- [Symbol] PROPOSED EVERGREEN TREE
- [Symbol] PROPOSED ORNAMENTAL TREE
- [Symbol] PROPOSED DECIDUOUS SHRUB
- [Symbol] PROPOSED EVERGREEN SHRUB
- [Symbol] PERENNIALS
- [Symbol] PERENNIALS
- [Symbol] PROPOSED SOO
- [Symbol] PROPOSED GROUNDCOVER

PLANTING NOTES

1. ALL EXTERIOR GROUND AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY BUILDINGS, STRUCTURES, PAVING, CONTINUOUS PLANTING BEDS, LEDGE, EXPOSED ROCK OR OTHER SITE IMPROVEMENTS SHALL BE GRADED, TOP-SOILED TO A MINIMUM DEPTH OF 6" AND GRASS SEED.
2. ALL MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE REQUIREMENTS OF THE CT ASSOCIATION OF LANDSCAPE CONTRACTORS SPECIFICATIONS AND THE AMERICAN LANDSCAPE & NURSERY ASSOCIATION STANDARDS FOR NURSERY STOCK.
3. ALL TREE STAKING OR GUYING SHALL BE DONE IMMEDIATELY AFTER PLANTING, BUT IN NO INSTANCE MORE THAN 24 HOURS AFTER PLANTING. SEE STAKING/GUYING DETAIL. AT COMPLETION OF MAINTENANCE PERIOD REMOVE ALL STAKES, FLAGS, GUYES, TREE WRAP, AND ANCHORS.
4. MULCH ALL NEW SHRUB BEDS AND PLANT PITS TO ACHIEVE A 3" DEPTH (AFTER SETTLEMENT). MULCH ALL GROUND COVER BEDS TO ACHIEVE A 2" DEPTH (AFTER SETTLEMENT). MULCH FOR SAUCERS AND PLANTING AREAS TO BE A DOUBLE SHREDED BARK MULCH.
5. ALL LAWN AND PLANTING AREA SOIL PREPARATION SHALL BE FERTILIZED AND AMENDED ACCORDING TO RECOMMENDATIONS OF A SOIL ANALYSIS PROVIDED BY AN APPROVED SOIL TESTING LABORATORY.
6. SEE SPECIFICATIONS FOR LAWN AREA SEED MIXTURE
7. FINAL LOCATION OF PLANT MATERIAL TO BE APPROVED BY ARCHITECT IN THE FIELD.

SCALE: 1"=20'

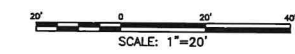
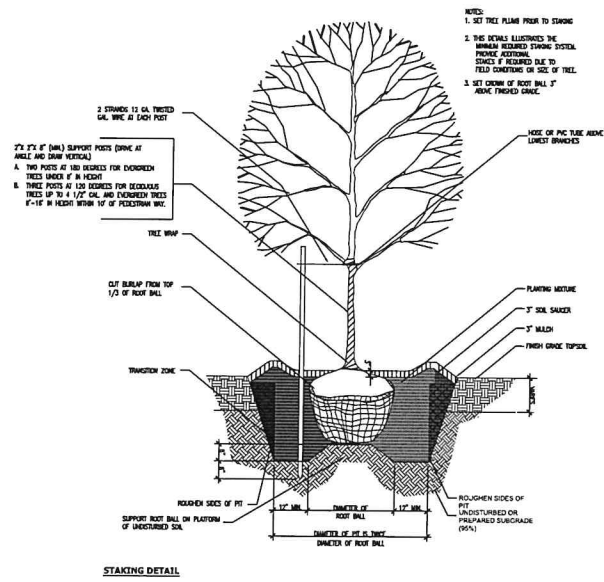
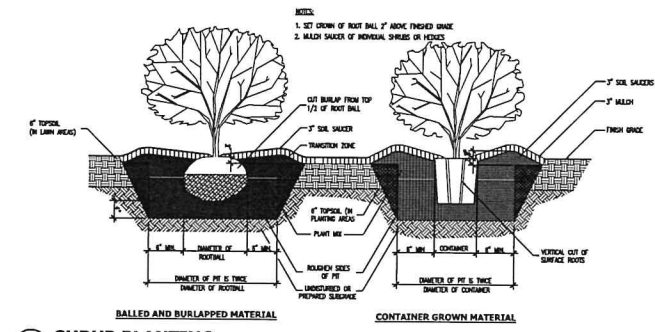
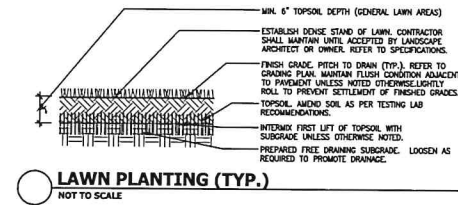
<p>CLA Engineers, Inc. CIVIL • STRUCTURAL • SURVEYING</p> <p>317 Main Street Norwich, CT 06360 (860) 886-1966 Fax (860) 886-9165</p>		<p>Project No. CLA-7093A</p> <p>Proj. Engineer D.F.H.</p> <p>Date: 04/14/22</p> <p>Sheet No. 11</p>
<p>TOWN OF LISBON</p> <p>LISBON FIRE STATION 25 NEWENT ROAD (Route 138)</p> <p>PLANTING PLAN</p>		

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PLANT LIST

CODE TREES	BOTANICAL NAME	COMMON NAME	SIZE
AR	ACER RUBRUM 'OCTOBER GLORY'	RED MAPLE 'OCTOBER GLORY'	2 1/2" - 3" B&B
AL	AMELANCHER LAEVIS	ALLECHENCY SHADBLow	MULTI-STEMMED - 6-9' HGT. B&B
CC	CERCIS CANADENSIS	REDBUD 'MULTISTEM'	6'-9' HGT. B&B
CK	CORNUS KOUSA	KOUSA DOGWOOD	6'-9' HGT. B&B
MP	MALUS PRARIFIRE	PRARIFIRE CRABAPPLE	2 1/2" - 3" B&B
MG	MAGNOLIA GRANDIFOLIA	SOUTHERN MAGNOLIA	2 1/2" - 3" B&B
PST	PINUS STROBUS	EASTERN WHITE PINE	6'-9' HGT. B&B
PY	PRUNUS YEDOENSIS	YOSHINO CHERRY	6'-9' HGT. B&B
PG	PICEA GLAUCA	WHITE SPRUCE	6'-9' HGT. B&B
SHRUBS			
BD	Buddleia DAVIDII 'BLACK KNIGHT'	BLACK KNIGHT BUTTERFLY BUSH	2'-3" B&B
CA	CLETHRA ALNIFOLIA	SUMMER SWEET	2'-3" B&B
HM	HYDRANGEA MACROPHYLLA 'TWIST N SHOUT'	TWIST N SHOUT BIG LEAF HYDRANGEA	2'-3" B&B
IG	ILEX GLABRA 'SHAMROCK'	INKBERRY SHAMROCK	2'-3" B&B
PC	PHILADELPHUS CORONARIUS X LEMONIE	MOCK ORANGE 'LEMONIE'	2'-3" B&B
SJ	SPIRAEA JAPONICA 'FLAMING GLOBE'	FLAMING GLOBE SPIREA	3'-4" B&B
SV	SYRINGA VULGARIS	COMMON LILAC	3'-4" B&B
VC	VACCINIUM CORYMBOSUM	HIGH BUSH BLUEBERRY	3'-4" B&B
VD	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	3'-4" B&B
PERENNIALS			
ARO	ALCEA ROSEA	HOLLYHOCK	1 GAL.
AT	ASCLEPIAS TUBEROSA	BUTTERFLY WEED	1 GAL.
ANA	ASTER NOVAE ANGLIAE	NEW ENGLAND ASTER	1 GAL.
BO	BORAGI OFFICINALIS	BORAGE	1 GAL.
COR	COREOPSIS GRANDIFLORA	COMMON TICKSEED	1 GAL.
CC	CARYOPETERIS CLAUDONENSIS	CARYOPETERIS 'WORCESTER GOLD'	1 GAL.
HSD	HEMEROCALLIS 'STELLA DE ORO'	STELLA DE ORO DAYLILY	1 GAL.
EP	ECHINACEA PURPUREA	PURPLE CONEFLOWER	1 GAL.
HA	HELIOTROPE ARBORESCENS	COMMON HELIOTROPE	1 GAL.
HHR	HEMEROCALLIS 'HAPPY RETURNS'	HAPPY RETURNS DAYLILY	1 GAL.
HBA	HOSTA 'BLUE ANGEL'	BLUE ANGEL HOSTA	1 GAL.
HSS	HOSTA SUN & SUBSTANCE	SUN & SUBSTANCE HOSTA	1 GAL.
LM	LAVANDULA ANGUSTIFOLIA	ENGLISH LAVENDER	1 GAL.
MI	MATTHOLA INCANA	COMMON STOCK FLOWER	1 GAL.
MF	MONARDA FISTULOSA	WILD BEE BALM	1 GAL.
NC	NEPETA CATARIA	CATMINT	1 GAL.
RH	RUDBECKIA HIRTA	BLACK EYED SUSAN	1 GAL.
SS	SEDUM SPECTABILE	STONECROP	1 GAL.
GRASSES & GRASSES			
FG	FESCUS GLAUCA	BLUE FESCUE	#3
MS	MISCANTHUS SINENSIS 'GRACILLIMUS'	MAIDEN GRASS	5 GAL.
VM	VINCA MINOR	PERIWINKLE	PLUGS



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LISBON FIRE STATION 25 NEWENT ROAD (Route 138)		12
PLANTING DETAILS		