Edward & Beatrice Gumula
Map 33, Lot 85

Edward C. Gumula, Jr.
Map 33, Lot 86

Christopher R. Renaud
Map 33, Lot 87

Estelle Y. Hebert
Map 40, Lot 1

WOOD SPLIT RAIL FENCE

CB 106
TYPE "C-4"
TF = 239.20
INV = 230.80

CB 107
TYPE "C-1"
TF = 239.50
INV = 230.90

16" – 18" CPP
@ 0.6%

B-6

B-4

B-3

282' – 18" CPP
@ 0.5%

B-2

B-1

CONNECT TO EXISTING CB 108
TF = 236.05
INV = 232.35

CONNECT TO EXISTING CB 109
TF = 235.67
INV = 232.70

STOP AHEAD SIGN

70' – 18" CPP
@ 0.5%

E N N I S R O A D

ALLEN HILL ROAD

MATCHLINE A–A

12" HICKORY
12" MAPLE
18" MAPLE
14" ASH
GUY
CT CL&P 1009
CT CL&P 988

Edward & Beatrice Gumula
Map 33, Lot 83A–2

Edward C. Gumula, Jr.
Map 33, Lot 83A–1

N

Cindy Miller
Map 33, Lot 84A

INTERMEDIATE RIPRAP UNDERLAIN WITH FILTER FABRIC AND 6" GRAVEL BEDDING

APPROXIMATE LIMIT OF WETLANDS. SEE SURVEY NOTE #6.

CB 102
TYPE "C"
TF = 233.90
INV IN = 228.60 (SE)
INV IN = 225.9± (W)
INV OUT = 225.9± (S)

INV = 225.67

EXTEND NEW 48" RCP 5' BEYOND EXISTING PIPE TO ALLOW FOR REGRADING AND STABILIZING SLOPE. APPROXIMATE WETLAND DISTURBANCE = 150 S.F.

INSTALL BITUMINOUS CURB 50' BEYOND CATCH BASIN IN BOTH DIRECTIONS. REMOVE AND RESET GUARD RAIL AFTER PIPE INSTALLATION.

INV = 226.74

92' – 18" CPP
@ 0.5%

B-13

APPROXIMATE WETLAND DISTURBANCE = 100 S.F.

REPLACE EXISTING 30" RCP WITH 48" RCP. MATCH EXISTING INVERTS.

Rudolph & Rita N. Rzeznikiewicz
Map 34, Lot 51

DMH 104
TF = 238.04
INV = 229.10
INSTALL CB BASE WITH 4' SUMP AND INSTALL MANHOLE TRANSITION, FRAME AND COVER

John C. Brown
Map 33, Lot 84

12" SPRUCE
18" SPRUCE

B-12

B-11

94' – 18" CPP
@ 0.5%

TEMPORARY BENCHMARK
SPIKE IN CL&P 1955
ELEVATION = 241.22

CB 105
TYPE "C-4"
TF = 240.00
INV = 229.60

CL&P 1828 CURVE SIGN

B-10

B-9

224' – 18" CPP
@ 0.5%

B-8

B-7

GUY

GATE

30" ASH
10" HICKORY
12" HICKORY

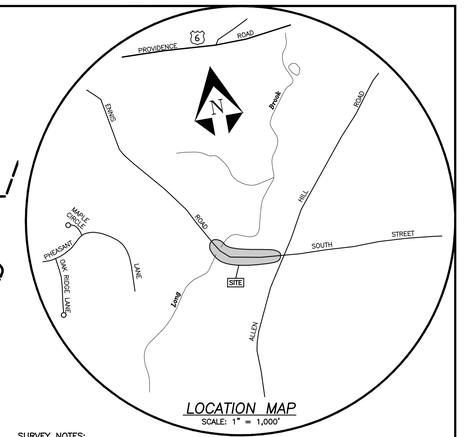
MATCHLINE A–A

Edward & Beatrice Gumula
Map 33, Lot 83A–2

LEGEND

- BORING LOCATION
- EXISTING SIGN
- UTILITY POLE
- EXISTING MAIL BOX
- PROPOSED MANHOLE
- PROPOSED CATCH BASIN
- WOOD FENCE
- BARBED WIRE FENCE
- METAL BEAM GUIDE RAIL
- STONE WALL
- STONE WALL REMAINS
- PROPOSED STORM DRAIN
- EXISTING INDEX CONTOUR (100)
- EXISTING CONTOUR (102)

20 10 0 20
GRAPHIC SCALE IN FEET



LOCATION MAP
SCALE: 1" = 1,000'

SURVEY NOTES:

1. This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Section 20–300b–1 through 20–300b–20 and the "Standards for Surveys and Maps in the State of Connecticut" as adopted by the Connecticut Association of Land Surveyors, Inc. on September 26, 1996;

   This plan was compiled from other maps, record research or other sources of information. It is not to be construed as having been obtained as the result of a field survey and is subject to such changes as an accurate field survey may disclose.

   – This survey conforms to a Class "D" horizontal accuracy. Topographic features conform to a Class "T–2" accuracy.

   – Survey Type: Compilation Plan and Topographic Survey.

2. The intent of this plan is to show existing conditions for the installation of a storm drainage system.

3. Right of way limits shown are based on the map reference below and physical evidence.

4. Elevations are referenced to the North American Vertical Datum of 1988. Contours are taken from actual field survey. Contour interval = 2'.

5. North orientation is based on Connecticut State Plane Coordinates, NAD–83.

6. Access to the Brown property is not available for field delineation of wetlands. The approximate wetland limits shown are based on a field inspection of the area from Ennis Road and aerial photography.

7. The Town of Brooklyn is responsible for obtaining all temporary and permanent easements and rights necessary for the proposed work.

MAP REFERENCE:

"Subdivision of Land of – Edward C. Gumula – Beatrice H. Gumula – Allen Hill & Ennis Roads, Brooklyn, Connecticut – Scale: 1" = 40' – Dated: August, 1989 – Normandin & Associates"

CONSTRUCTION NOTES:

"Standard Specifications" as used herein refers to "State of Connecticut – Department of Transportation – Standard Specifications for Roads, Bridges, Facilities and Incidental Construction – Form 817 – 2016" as amended.

1. Prior to the start of any excavation contact CALL BEFORE YOU DIG at 1–800–922–4455 to verify the location of all utilities.
2. Mail boxes which must be removed for construction shall be promptly reset by the contractor.
3. All disturbed shoulder areas shall be permanently stabilized with loam, seed and mulch.
4. Reinforced concrete pipe shall be Class 3, minimum.
5. CPP drainage pipe shall be ADS N–12 high density polyethylene with a smooth wall interior or equivalent.
6. Catch basins with 15" or 18" discharge pipes shall be equipped with 4' deep minimum sumps and outlet hoods.
7. CB 102 may be constructed of block or precast concrete as required to accommodate existing conditions.
8. Structures and pipes may be backfilled with suitable on–site excavated materials. Backfill soil shall not contain organics or large stones which may interfere with proper compaction.
9. Subbase material shall conform to section M.02.02.1 of the Standard Specifications.
10. Processed gravel base material shall conform to section M.05.01 of the Standard Specifications.
11. All backfill, subbase and base material shall be compacted to 95% minimum relative density as determined by ASTM D1557, Modified Proctor. Compaction tests shall be completed at the rate of one test per 100 linear feet of trench with results submitted to the Town unless otherwise indicated by the Town.
12. No blasting will be allowed for rock excavation unless otherwise indicated by the Town.

COMPILATION PLAN & TOPOGRAPHIC SURVEY
PROPOSED DRAINAGE IMPROVEMENTS
PREPARED FOR

THE TOWN OF BROOKLYN

ENNIS ROAD
BROOKLYN, CONNECTICUT

REVISIONS	
DATE	DESCRIPTION
2/13/2018	I.W. COMMENTS
8/9/2018	ADD BORINGS

DATE: 10/23/2017	DRAWN: DJH
SCALE: 1" = 20'	DESIGN: DJH
SHEET: 1 OF 4	CHK BY: ---
DWG. No: HF 307	JOB No: 173057

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON,

DAVID J. HELD, L.S. LIC. NO. 24267 DATE

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SEAL AND SIGNATURE OF THE LAND SURVEYOR.

ENGINEER DATE

Provost & Rovero, Inc.
Civil Engineering • Surveying • Site Planning
Structural • Mechanical • Architectural Engineering
57 East Main Street, P.O. Box 191
Plainfield, Connecticut 06374
(860) 230-0856 - FAX: (860) 230-0860
info@prorovinc.com
www.prorovinc.com

J:\173057\Drawings\SITE PLAN.dwg Aug 09, 2018 – 12:24 PM

EROSION AND SEDIMENT CONTROL PLAN:

REFERENCE IS MADE TO:

1. Connecticut Guidelines for Soil Erosion and Sediment Control 2002 (2002 Guidelines).
2. Soil Survey of Connecticut, N.R.C.S.

SILT FENCE INSTALLATION AND MAINTENANCE:

1. Dig a 6" deep trench on the uphill side of the barrier location.
2. Position the posts on the downhill side of the barrier and drive the posts 1.5 feet into the ground.
3. Lay the bottom 6" of the fabric in the trench to prevent undermining and backfill.
4. Inspect and repair barrier after heavy rainfall.
5. Inspections will be made at least once per week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater to determine maintenance needs.
6. Sediment deposits are to be removed when they reach a height of 1 foot behind the barrier or half the height of the barrier and are to be deposited in an area which is not regulated by the inland wetlands commission.
7. Replace or repair the fence within 24 hours of observed failure. Failure of the fence has occurred when sediment fails to be retained by the fence because:

– the fence has been overtopped, undercut or bypassed by runoff water,
– the fence has been moved out of position (knocked over), or
– the geotextile has decomposed or been damaged.

HAY BALE INSTALLATION AND MAINTENANCE:

1. Bales shall be placed as shown on the plans with the ends of the bales tightly abutting each other.
2. Each bale shall be securely anchored with at least 2 stakes and gaps between bales shall be wedged with straw to prevent water from passing between the bales.
3. Inspect bales at least once per week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inches or greater to determine maintenance needs.
4. Remove sediment behind the bales when it reaches half the height of the bale and deposit in an area which is not regulated by the Inland Wetlands Commission.
5. Replace or repair the barrier within 24 hours of observed failure. Failure of the barrier has occurred when sediment fails to be retained by the barrier because:

– the barrier has been overtopped, undercut or bypassed by runoff water,
– the barrier has been moved out of position, or
– the hay bales have deteriorated or been damaged.

TEMPORARY VEGETATIVE COVER:

SEED SELECTION

Grass species shall be appropriate for the season and site conditions. Appropriate species are outlined in Figure TS–2 in the 2002 Guidelines.

TIMING CONSIDERATIONS

Seed with a temporary seed mixture within 7 days after the suspension of grading work in disturbed areas where the suspension of work is expected to be more than 30 days but less than 1 year.

SITE PREPARATION

Install needed erosion control measures such as diversions, grade stabilization structures, sediment basins and grassed waterways.

Grade according to plans and allow for the use of appropriate equipment for seedbed preparation, seeding, mulch application, and mulch anchoring.

SEEDBED PREPARATION

Loosen the soil to a depth of 3–4 inches with a slightly roughened surface. If the area has been recently loosened or disturbed, no further roughening is required. Soil preparation can be accomplished by tracking with a bulldozer, discing, harrowing, raking or dragging with a section of chain link fence. Avoid excessive compaction of the surface by equipment traveling back and forth over the surface. If the slope is tracked, the cleat marks shall be perpendicular to the anticipated direction of the flow of surface water.

If soil testing is not practical or feasible on small or variable sites, or where timing is critical, fertilizer may be applied at the rate of 300 pounds per acre or 7.5 pounds per 1,000 square feet of 10–10–10 or equivalent. Additionally, lime may be applied using rates given in Figure TS–1 in the 2002 Guidelines.

SEEDING

Apply seed uniformly by hand cyclone seeder, drill, cultipacker type seeder or hydroseeder at a minimum rate for the selected species. Increase seeding rates by 10% when hydroseeding.

MULCHING

Temporary seedings made during optimum seeding dates shall be mulched according to the recommendations in the 2002 Guidelines. When seeding outside of the recommended dates, increase the application of mulch to provide 95%–100% coverage.

MAINTENANCE

Inspect seeded area at least once a week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater for seed and mulch movement and rill erosion.

Where seed has moved or where soil erosion has occurred, determine the cause of the failure. Repair eroded areas and install additional controls if required to prevent reoccurrence of erosion.

Continue inspections until the grasses are firmly established. Grasses shall not be considered established until a ground cover is achieved which is mature enough to control soil erosion and to survive severe weather conditions (approximately 80% vegetative cover).

PERMANENT VEGETATIVE COVER:

Refer to Permanent Seeding Measure in the 2002 Guidelines for specific applications and details related to the installation and maintenance of a permanent vegetative cover. In general, the following sequence of operations shall apply:

1. Topsoil will be replaced once the excavation and grading has been completed. Topsoil will be spread at a minimum compacted depth of 4".
2. Once the topsoil has been spread, all large boulders will be removed as well as debris.
3. Apply agricultural ground limestone at a rate of 2 tons per acre or 100 lbs. per 1000 s.f. Apply 10–10–10 fertilizer or equivalent at a rate of 300 lbs. per acre or 7.5 lbs. per 1000 s.f. Work lime and fertilizer into the soil to a depth of 4".
4. Inspect seedbed before seeding. If traffic has compacted the soil, retill compacted areas.
5. Apply the chosen grass seed mix. The recommended seeding dates are: April 1 to June 15 & August 15 – October 1.
6. Following seeding, firm seedbed with a roller. Mulch immediately following seeding. If a permanent vegetative stand cannot be established by September 30, apply a temporary cover on the topsoil such as netting, mat or organic mulch.

EROSION AND SEDIMENT CONTROL NARRATIVE:

PRINCIPLES OF EROSION AND SEDIMENT CONTROL

The primary function of erosion and sediment controls is to absorb erosional energies and reduce runoff velocities that force the detachment and transport of soil and/or encourage the deposition of eroded soil particles before they reach any sensitive area.

KEEP LAND DISTURBANCE TO A MINIMUM

The more land that is in vegetative cover, the more surface water will infiltrate into the soil, thus minimizing stormwater runoff and potential erosion. Keeping land disturbance to a minimum not only involves minimizing the extent of exposure at any one time, but also the duration of exposure. Phasing, sequencing and construction scheduling are interrelated. Phasing divides a large project into distinct sections where construction work over a specific area occurs over distinct periods of time and each phase is not dependent upon a subsequent phase in order to be functional. A sequence is the order in which construction activities are to occur during any particular phase. A sequence should be developed on the premise of "first things first" and "last things last" with proper attention given to the inclusion of adequate erosion and sediment control measures. A construction schedule is a sequence with time lines applied to it and should address the potential overlap of actions in a sequence which may be in conflict with each other.

– Limit areas of clearing and grading. Protect natural vegetation from construction equipment with fencing, tree armoring, and retaining walls or tree wells.
– Route traffic patterns within the site to avoid existing or newly planted vegetation.
– Phase construction so that areas which are actively being developed at any one time are minimized and only that area under construction is exposed. Clear only those areas essential for construction.
– Sequence the construction of storm drainage systems so that they are operational as soon as possible during construction. Ensure all outlets are stable before outletting storm drainage flow into them.
– Schedule construction so that final grading and stabilization is completed as soon as possible.

SLOW THE FLOW

Detachment and transport of eroded soil must be kept to a minimum by absorbing and reducing the erosive energy of water. The erosive energy of water increases as the volume and velocity of runoff increases. The volume and velocity of runoff increases during development as a result of reduced infiltration rates caused by the removal of existing vegetation, removal of topsoil, compaction of soil and the construction of impervious surfaces.

– Use diversions, stone dikes, silt fences and similar measures to break flow lines and dissipate storm water energy.
– Avoid diverting one drainage system into another without calculating the potential for downstream flooding or erosion.

KEEP CLEAN RUNOFF SEPARATED

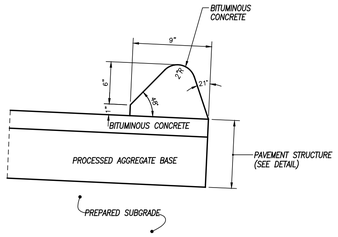
Clean runoff should be kept separated from sediment laden water and should not be directed over disturbed areas without additional controls. Additionally, prevent the mixing of clean off–site generated runoff with sediment laden runoff generated on–site until after adequate filtration of on–site waters has occurred.

– Segregate construction waters from clean water.
– Divert site runoff to keep it isolated from wetlands, watercourses and drainage ways that flow through or near the development until the sediment in that runoff is trapped or detained.

REDUCE ON SITE POTENTIAL INTERNALLY AND INSTALL PERIMETER CONTROLS

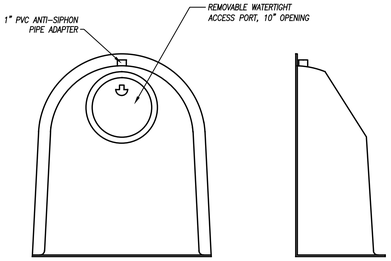
While it may seem less complicated to collect all waters to one point of discharge for treatment and just install a perimeter control, it can be more effective to apply internal controls to many small sub–drainage basins within the site. By reducing sediment loading from within the site, the chance of perimeter control failure and the potential off–site damage that it can cause is reduced. It is generally more expensive to correct off–site damage than it is to install proper internal controls.

– Control erosion and sedimentation in the smallest drainage area possible. It is easier to control erosion than to contend with sediment after it has been carried downstream and deposited in unwanted areas.
– Direct runoff from small disturbed areas to adjoining undisturbed vegetated areas to reduce the potential for concentrated flows and increase settlement and filtering of sediments.
– Concentrated runoff from development should be safely conveyed to stable outlets using rip rapped channels, waterways, diversions, storm drains or similar measures.
– Determine the need for sediment basins. Sediment basins are required on larger developments where major grading is planned and where it is impossible or impractical to control erosion at the source. Sediment basins are needed on large and small sites when sensitive areas such as wetlands, watercourses, and streets would be impacted by off–site sediment deposition. Do not locate sediment basins in wetlands or permanent or intermittent watercourses. Sediment basins should be located to intercept runoff prior to its entry into the wetland or watercourse.
– Grade and landscape around buildings and septic systems to divert water away from them.

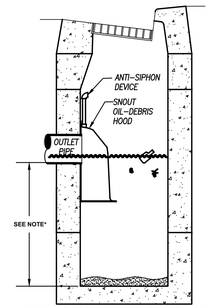


BITUMINOUS CONCRETE LIP CURBING DETAIL

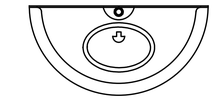
NOT TO SCALE



FRONT SIDE



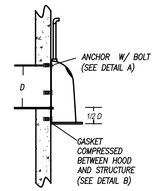
*NOTE– SUMP DEPTH OF 36" MIN. FOR < OR= 12" DIAM. OUTLET. FOR OUTLETS >OR= 15", DEPTH = 2.5–3X DIAM.

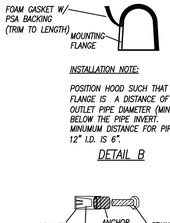


PLAN

NOTES:

1. ALL HOODS AND TRAPS FOR CATCH BASINS AND WATER QUALITY STRUCTURES SHALL BE AS MANUFACTURED BY:
   BEST MANAGEMENT PRODUCTS, INC.
   53 MT. ARCHER RD.
   LYME, CT 06371
   (860) 434–0277, (860) 434–3195 FAX
   TOLL FREE: (800) 504–8008 OR (888) 354–7585
   WEB SITE: www.bestmp.com
   OR PRE–APPROVED EQUAL
2. ALL HOODS SHALL BE CONSTRUCTED OF A GLASS REINFORCED RESIN COMPOSITE WITH ISO GEL COAT EXTERIOR FINISH WITH A MINIMUM 0.125" LAMINATE THICKNESS.
3. ALL HOODS SHALL BE EQUIPPED WITH A WATERTIGHT ACCESS PORT, A MOUNTING FLANGE, AND AN ANTI–SIPHON VENT AS DRAWN. (SEE CONFIGURATION DETAIL)
4. THE SIZE AND POSITION OF THE HOOD SHALL BE DETERMINED BY OUTLET PIPE SIZE AS PER MANUFACTURER'S RECOMMENDATION.
5. THE BOTTOM OF THE HOOD SHALL EXTEND DOWNWARD A DISTANCE EQUAL TO 1/2 THE OUTLET PIPE DIAMETER WITH A MINIMUM DISTANCE OF 6" FOR PIPES <12" I.D.
6. THE ANTI–SIPHON VENT SHALL EXTEND ABOVE HOOD BY MINIMUM OF 3" AND A MAXIMUM OF 24" ACCORDING TO STRUCTURE CONFIGURATION.
7. THE SURFACE OF THE STRUCTURE WHERE THE HOOD IS MOUNTED SHALL BE FINISHED SMOOTH AND FREE OF LOOSE MATERIAL.
8. THE HOOD SHALL BE SECURELY ATTACHED TO STRUCTURE WALL WITH 3/8" STAINLESS STEEL BOLTS AND OIL–RESISTANT GASKET AS SUPPLIED BY MANUFACTURER. (SEE INSTALLATION DETAIL)
9. THE SPECIFIC SNOUT MODEL SHALL BE DETERMINED BASED ON THE OUTLET PIPE SIZE.
10. INSTALLATION INSTRUCTIONS SHALL BE FURNISHED WITH MANUFACTURER SUPPLIED INSTALLATION KIT.
    INSTALLATION KIT SHALL INCLUDE:
    A. INSTALLATION INSTRUCTIONS
    B. PVC ANTI–SIPHON VENT PIPE AND ADAPTER
    C. OIL–RESISTANT CRUSHED CELL FOAM GASKET WITH PSA BACKING
    D. 3/8" STAINLESS STEEL BOLTS
    E. ANCHOR SHIELDS

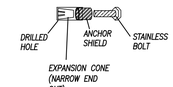




INSTALLATION NOTE:

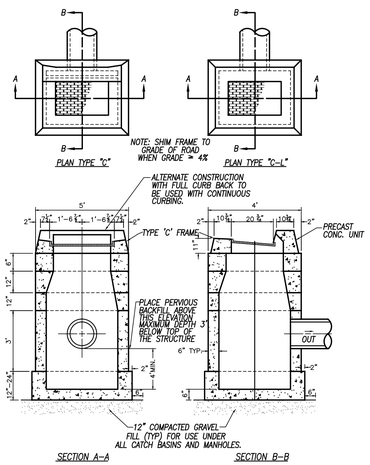
POSITION HOOD SUCH THAT BOTTOM FLANGE IS A DISTANCE OF 1/2 OUTLET PIPE DIAMETER (MIN.) BELOW THE PIPE INVERT. MINUMUM DISTANCE FOR PIPES < 12" I.D. IS 6".

DETAIL B



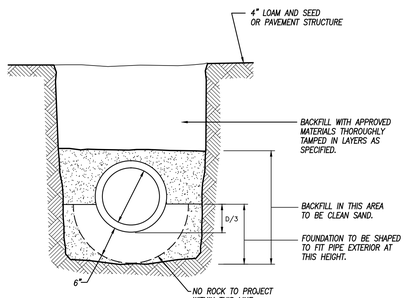
DETAIL A

INSTALLATION DETAILS



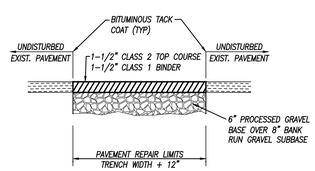
TYPICAL CATCH BASIN DETAIL

NOT TO SCALE



STORM DRAIN PIPE IN TRENCH DETAIL

NOT TO SCALE



PAVEMENT REPAIR CROSS SECTION

NOT TO SCALE

DETAIL SHEET
PROPOSED DRAINAGE IMPROVEMENTS
PREPARED FOR

THE TOWN OF BROOKLYN

ENNIS ROAD
BROOKLYN, CONNECTICUT

REVISIONS	
DATE	DESCRIPTION
2/13/2018	I.W. COMMENTS
8/9/2018	ADD BORINGS

DATE: 10/23/2017	DRAWN: DJH
SCALE: AS SHOWN	DESIGN: DJH
SHEET: 2 OF 4	CHK BY: ---
DWG. No: HF 307	JOB No: 173057

Provost & Rovero, Inc.

Civil Engineering • Surveying • Site Planning
Structural • Mechanical • Architectural Engineering

57 East Main Street, P.O. Box 191
Plainfield, Connecticut 06374
(860) 230-0856 - FAX: (860) 230-0860
info@prorovinc.com
www.prorovinc.com

J:\173057\Drawings\SITE PLAN.dwg Aug 09, 2018 – 12:25 PM

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: TOWN OF BROOKLYN

PROJECT NAME: PROPOSED SEWER
LOCATION: ENNIS ROAD

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET: 4'N
LINE & STA.:
N. COORDINATE:
E. COORDINATE:
SURFACE ELEV.:
HOLE NO. B-1
GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 6/11/18
FINISH DATE 6/11/18

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					ASPHALT 0.40	
					BR.FINE-CRS.SAND, LITTLE SILT & GRAVEL	
5					6.0	
					BOTTOM OF BORING @ 6.0' (AUGER REFUSAL)	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: K. CHRISTIANA
INSPECTOR:
SHEET 1 OF 1 HOLE NO. **B-1**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: TOWN OF BROOKLYN

PROJECT NAME: PROPOSED SEWER
LOCATION: ENNIS ROAD

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET: 4'N
LINE & STA.:
N. COORDINATE:
E. COORDINATE:
SURFACE ELEV.:
HOLE NO. B-2
GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 6/11/18
FINISH DATE 6/11/18

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					ASPHALT	
					DARK BR.FINE-CRS.SAND, LITTLE SILT & GRAVEL 0.83	
					BR.FINE-MED.SAND, SOME SILT, LITTLE GRAVEL, FEW COBBLES 2.0	
5					5.0	
					BOTTOM OF BORING @ 5.0' (AUGER REFUSAL)	
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: K. CHRISTIANA
INSPECTOR:
SHEET 1 OF 1 HOLE NO. **B-2**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: TOWN OF BROOKLYN

PROJECT NAME: PROPOSED SEWER
LOCATION: ENNIS ROAD

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET: 6'N
LINE & STA.:
N. COORDINATE:
E. COORDINATE:
SURFACE ELEV.:
HOLE NO. B-3
GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 6/11/18
FINISH DATE 6/11/18

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					ASPHALT 0.50	
					BR.FINE-CRS.SAND, SOME SILT, TRACE GRAVEL	
5					BR.FINE-MED.SAND, SOME SILT, LITTLE GRAVEL, FEW COBBLES 5.0	
10						
15					14.0	
					BOTTOM OF BORING @ 14.0' (AUGER REFUSAL)	
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: K. CHRISTIANA
INSPECTOR:
SHEET 1 OF 1 HOLE NO. **B-3**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: TOWN OF BROOKLYN

PROJECT NAME: PROPOSED SEWER
LOCATION: ENNIS ROAD

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET: 8'N
LINE & STA.:
N. COORDINATE:
E. COORDINATE:
SURFACE ELEV.:
HOLE NO. B-4
GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 6/11/18
FINISH DATE 6/11/18

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					ASPHALT 0.50	
					BR.FINE-CRS.SAND, SOME SILT, TRACE GRAVEL	
5					BR.FINE-MED.SAND, SOME SILT, LITTLE GRAVEL, FEW COBBLES 6.0	
10					12.5	
					BOTTOM OF BORING @ 12.5' (AUGER REFUSAL)	
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: K. CHRISTIANA
INSPECTOR:
SHEET 1 OF 1 HOLE NO. **B-4**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: TOWN OF BROOKLYN

PROJECT NAME: PROPOSED SEWER
LOCATION: ENNIS ROAD

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET:
LINE & STA.:
N. COORDINATE:
E. COORDINATE:
SURFACE ELEV.:
HOLE NO. B-6
GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 6/11/18
FINISH DATE 6/11/18

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					ASPHALT 0.40	
					BR.FINE-CRS.SAND, LITTLE SILT, TRACE GRAVEL	
5					BR.FINE-MED.SAND, SOME SILT, TRACE GRAVEL 3.0	
10						
15					15.0	
					BOTTOM OF BORING @ 15.0'	
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: K. CHRISTIANA
INSPECTOR:
SHEET 1 OF 1 HOLE NO. **B-6**

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: TOWN OF BROOKLYN

PROJECT NAME: PROPOSED SEWER
LOCATION: ENNIS ROAD

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140lbs	
HAMMER FALL			30"	

OFFSET: 8'N
LINE & STA.:
N. COORDINATE:
E. COORDINATE:
SURFACE ELEV.:
HOLE NO. B-7
GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 6/11/18
FINISH DATE 6/11/18

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					ASPHALT 0.40	
					BR.FINE-CRS.SAND, LITTLE SILT & GRAVEL	
5					BR.FINE-MED.SAND, SOME SILT, LITTLE GRAVEL, FEW COBBLES 3.0	
10					7.5	
					BOTTOM OF BORING @ 7.5' (AUGER REFUSAL)	
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: K. CHRISTIANA
INSPECTOR:
SHEET 1 OF 1 HOLE NO. **B-7**

BORING LOGS
PROPOSED DRAINAGE IMPROVEMENTS
PREPARED FOR

THE TOWN OF BROOKLYN

ENNIS ROAD
BROOKLYN, CONNECTICUT

REVISIONS	
DATE	DESCRIPTION
2/13/2018	I.W. COMMENTS
8/9/2018	ADD BORINGS

DATE: 10/23/2017	DRAWN: DJH
SCALE: AS SHOWN	DESIGN: DJH
SHEET: 3 OF 4	CHK BY: ---
DWG. No: HF 307	JOB No: 173057

Provost & Rovero, Inc.
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Structural • Mechanical • Architectural Engineering

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info@prorovinc.com
www.prorovinc.com

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: TOWN OF BROOKLYN

PROJECT NAME: PROPOSED SEWER
LOCATION: ENNIS ROAD

	AUGER	CASING	SAMPLER	CORE BAR.	OFFSET
TYPE	HSA		SS		LINE & STA.
SIZE I.D.	3.75"		1.375"		15'S
HAMMER WT.			140lbs		N. COORDINATE
HAMMER FALL			30"		E. COORDINATE

SURFACE ELEV.: | HOLE NO. B-8

GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS | START DATE 6/11/18 | FINISH DATE 6/11/18

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					ASPHALT	0.56
					BR.FINE-CRS.SAND, LITTLE SILT & GRAVEL	1.0
					BR.FINE-MED.SAND, SOME SILT, TRACE GRAVEL	
					BR.FINE-MED.SAND, SOME SILT, LITTLE GRAVEL, FEW COBBLES	3.0
5					BOTTOM OF BORING @ 6.5' (AUGER REFUSAL)	6.5
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: K. CHRISTIANA
INSPECTOR:

SHEET 1 OF 1 | HOLE NO. B-8

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: TOWN OF BROOKLYN

PROJECT NAME: PROPOSED SEWER
LOCATION: ENNIS ROAD

	AUGER	CASING	SAMPLER	CORE BAR.	OFFSET
TYPE	HSA		SS		LINE & STA.
SIZE I.D.	3.75"		1.375"		
HAMMER WT.			140lbs		N. COORDINATE
HAMMER FALL			30"		E. COORDINATE

SURFACE ELEV.: | HOLE NO. B-12

GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS | START DATE 6/11/18 | FINISH DATE 6/11/18

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					ASPHALT	0.33
					DARK BR.FINE-CRS.SAND, LITTLE SILT & GRAVEL	
					BR.FINE-MED.SAND, SOME SILT, LITTLE GRAVEL, FEW COBBLES	2.0
5					BOTTOM OF BORING @ 15.0'	15.0
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: K. CHRISTIANA
INSPECTOR:

SHEET 1 OF 1 | HOLE NO. B-12

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: TOWN OF BROOKLYN

PROJECT NAME: PROPOSED SEWER
LOCATION: ENNIS ROAD

	AUGER	CASING	SAMPLER	CORE BAR.	OFFSET
TYPE	HSA		SS		LINE & STA.
SIZE I.D.	3.75"		1.375"		
HAMMER WT.			140lbs		N. COORDINATE
HAMMER FALL			30"		E. COORDINATE

SURFACE ELEV.: | HOLE NO. B-9

GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS | START DATE 6/11/18 | FINISH DATE 6/11/18

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					ASPHALT	0.40
					BR.FINE-CRS.SAND, SOME SILT, LITLE GRAVEL, FEW COBBLES	
5					BOTTOM OF BORING @ 8.0' (AUGER REFUSAL)	8.0
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: K. CHRISTIANA
INSPECTOR:

SHEET 1 OF 1 | HOLE NO. B-9

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: TOWN OF BROOKLYN

PROJECT NAME: PROPOSED SEWER
LOCATION: ENNIS ROAD

	AUGER	CASING	SAMPLER	CORE BAR.	OFFSET
TYPE	HSA		SS		LINE & STA.
SIZE I.D.	3.75"		1.375"		
HAMMER WT.			140lbs		N. COORDINATE
HAMMER FALL			30"		E. COORDINATE

SURFACE ELEV.: | HOLE NO. B-10

GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS | START DATE 6/11/18 | FINISH DATE 6/11/18

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					ASPHALT	0.25
					DARK BR.FINE-CRS.SAND, LITTLE SILT & GRAVEL	
					BR.FINE-MED.SAND, SOME SILT, LITTLE GRAVEL, FEW COBBLES	2.0
5					BOTTOM OF BORING @ 15.0'	15.0
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: K. CHRISTIANA
INSPECTOR:

SHEET 1 OF 1 | HOLE NO. B-10

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: TOWN OF BROOKLYN

PROJECT NAME: PROPOSED SEWER
LOCATION: ENNIS ROAD

	AUGER	CASING	SAMPLER	CORE BAR.	OFFSET
TYPE	HSA		SS		LINE & STA.
SIZE I.D.	3.75"		1.375"		15'W
HAMMER WT.			140lbs		N. COORDINATE
HAMMER FALL			30"		E. COORDINATE

SURFACE ELEV.: | HOLE NO. B-11

GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS | START DATE 6/11/18 | FINISH DATE 6/11/18

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					ASPHALT	0.40
					BR.FINE-CRS.SAND, SOME SILT, LITTLE GRAVEL, FEW COBBLES	
5					BOTTOM OF BORING @ 15.0'	15.0
10						
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: K. CHRISTIANA
INSPECTOR:

SHEET 1 OF 1 | HOLE NO. B-11

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: TOWN OF BROOKLYN

PROJECT NAME: PROPOSED SEWER
LOCATION: ENNIS ROAD

	AUGER	CASING	SAMPLER	CORE BAR.	OFFSET
TYPE	HSA		SS		LINE & STA.
SIZE I.D.	3.75"		1.375"		
HAMMER WT.			140lbs		N. COORDINATE
HAMMER FALL			30"		E. COORDINATE

SURFACE ELEV.: | HOLE NO. B-13

GROUND WATER OBSERVATIONS: AT 8.0 FT. AFTER 0 HOURS; AT FT. AFTER HOURS | START DATE 6/11/18 | FINISH DATE 6/11/18

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					ASPHALT	0.40
					BR.FINE-CRS.SAND, SOME SILT, LITTLE GRAVEL, FEW COBBLES	
5					BR.FINE-MED.SAND AND SILT, LITTLE GRAVEL, FEW COBBLES	13.0
10					BOTTOM OF BORING @ 15.0'	15.0
15						
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: K. CHRISTIANA
INSPECTOR:

SHEET 1 OF 1 | HOLE NO. B-13

BORING LOGS
PROPOSED DRAINAGE IMPROVEMENTS
PREPARED FOR

THE TOWN OF BROOKLYN

ENNIS ROAD
BROOKLYN, CONNECTICUT

REVISIONS	
DATE	DESCRIPTION
2/13/2018	I.W. COMMENTS
8/9/2018	ADD BORINGS

DATE: 10/23/2017	DRAWN: DJH
SCALE: AS SHOWN	DESIGN: DJH
SHEET: 4 OF 4	CHK BY: ---
DWG. No: HF 307	JOB No: 173057

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