

DRAWING NAME: P:\Land Projects\1069a - Durham Management Corp - Base Court 16 Main St - Centerbrook, CT 06409 (1069a - 00) - Covering LAYOUT: CoverSheet PLOT DATE: Nov 12, 2015 10:55am

# Essex Housing Authority

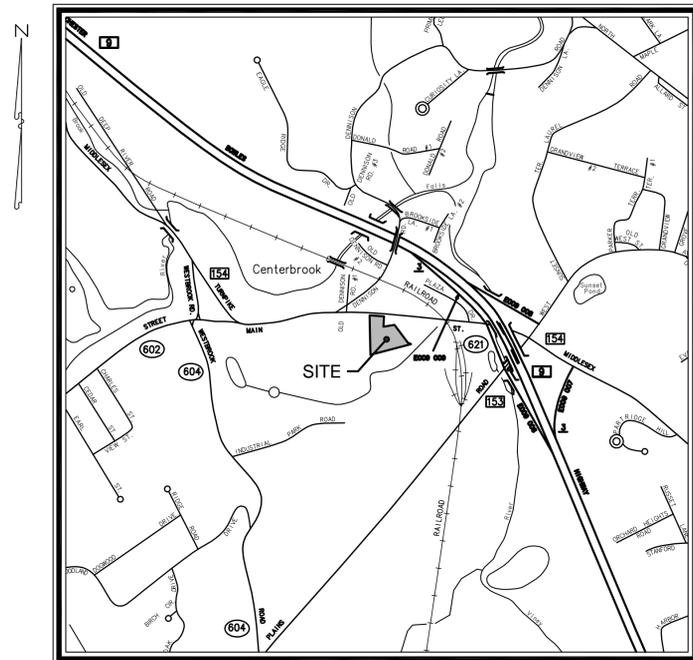
## Proposed Subsurface Sewage Disposal System Replacement

### for

# Essex Court

### 16 Main Street

### Centerbrook, CT 06409



**KEY MAP**  
SCALE: 1"=1,000'

#### Index of Drawings:

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| ES1     | Soil Erosion & Sedimentation Control Plan                         |
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| D1      | Construction Details  |

#### Owner:

Essex Housing Authority  
16 Main Street  
Centerbrook, CT 06409

#### Consultants:

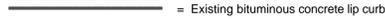
**cole**  
HARRY E. COLE & SON  
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876 South Main Street Tel: (860) 628-4484  
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Plantsville, CT 06479 - 0044 www.hecole.com

November 09, 2015

#### Revision Table

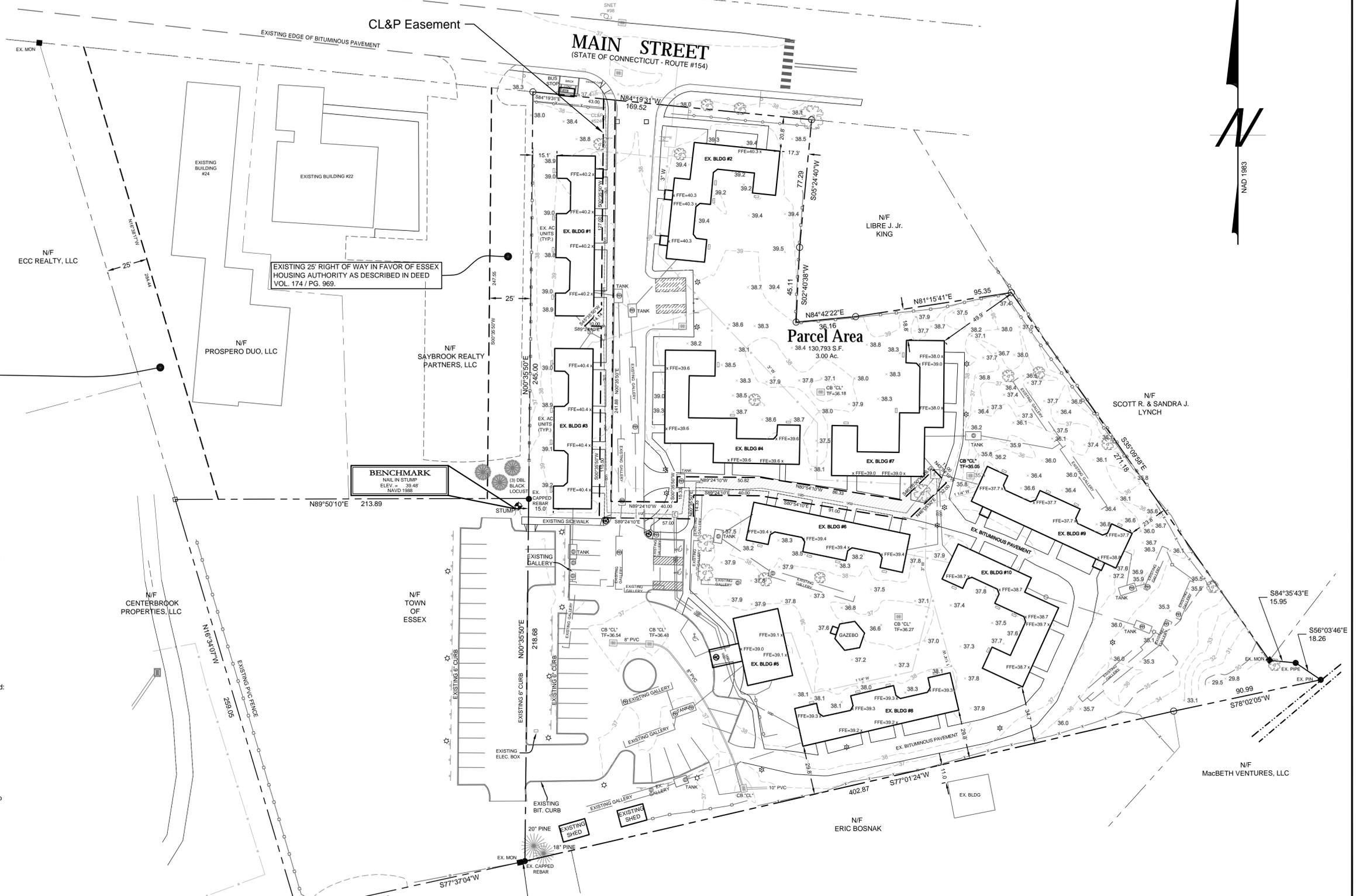
|                   |                     |        |
|-------------------|---------------------|--------|
| November 09, 2015 | First Submittal Set | #1069A |
|-------------------|---------------------|--------|

**LEGEND**

-  = Existing utility pole
-  = Existing light pole
-  = Existing fire hydrant
-  = Existing water valve
-  = Existing gas valve
-  = Existing underground pipe
-  = Existing edge of pavement
-  = Existing bituminous concrete lip curb
-  = Existing well
-  = Existing catch basin
-  = Existing drainage manhole
-  = Existing sanitary manhole
-  = Existing utility box
-  = Existing contour
-  = Existing spot elevation
-  = Existing iron pin
-  = Existing drill hole
-  = Existing monument
-  = Deep test location
-  = Percolation test location

EXISTING 25' RIGHT OF WAY IN FAVOR OF ESSEX HOUSING AUTHORITY FOR INGRESS & EGRESS TO AND FROM MIDDLESEX TURNPIKE AS DESCRIBED IN DEED VOL. 174 / PG. 969 & EXISTING EASEMENT IN FAVOR OF THE CONNECTICUT WATER COMPANY DESCRIBED IN DEED VOL. 105 / PG. 51

- SURVEY NOTES:**
- This map has been prepared pursuant to the Regulation of Connecticut State Agencies Sections 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.
  - Type of survey performed: Property Survey
  - Boundary determination category: Dependant Resurvey
  - Class of accuracy:  
Horizontal: A-2  
Vertical: T-2
  - The intent of this map is to depict or note the position of boundaries with respect to: (A) locations of all boundary monumentation found or set; (B) Apparent improvements and features, including as a minimum: dwellings, barns, garages, sheds, driveways, roadways, surface utilities, visible bodies of water and swimming pools; (C) record easements and visible means of ingress and egress; (D) record and apparent means of ingress and egress; (E) lines of occupation, including as a minimum: fences, walls, hedges and yards; (F) deed restrictions pertaining to the location of buildings or other apparent improvements; (G) unresolved conflicts with record deed descriptions and maps; (H) all apparent boundary encroachments; and (I) monumentation required to be set at all corners created by a deflection angle of not less than 70 degrees between two consecutive courses at an intervals not to exceed 600 feet (180 meters) along the boundaries between said corners, except where natural or man-made monumentation defines or occupies the line.
  - Map References:
    - "Connecticut Department of Transportation Right of Way Map, Town of Essex, Middlesex Turnpike, From the Congregational Church, Easterly to the Railroad Tracks, Route No. 10, Dated: July 22, 1982." Recorded in the E.L.R. as Map #22.
    - "Land of The Estate of Carmelo Pagano, Middlesex Tnpk., Centerbrook, CT, Scale: 1"=40", Dated: 12-1-82." Recorded in the E.L.R. as Map #30.
    - "The Connecticut Light & Power Company, Electric Easement on the Property of Essex Ederly Housing, Scale: 1"=20", Dated: 2-20-85." Recorded in the E.L.R. as Map #59.
    - "Proposed Division of Land of Centerbrook N.O. Nelson Co. & Herbert T. Clark III, Middlesex Turnpike, Centerbrook - Essex, Connecticut, Dated: October 7, 1985, Scale: 1"=50", Recorded in the E.L.R. as Map #36.
    - "Proposed Sanitary System Repairs, Prepared For Essex Ederly Housing, Essex, Connecticut, Scale: 1"=20", Dated: 9-11-95, Sheet 1 of 2, Final As Built Received on May 12, 1997.
    - "Data Accumulation Plan, Essex Court, 16 Main Street, Centerbrook, Connecticut, Assessor's Map 55 / Lot 16, Prepared For Essex Housing Authority, Scale: 1"=20", Dated: January 17, 2008, Existing Conditions, Sheet 1 of 1," Prepared by Kenneth J. Picard.
  - Per agreement with property owner no boundary corners were set by this survey unless noted hereon. All monumentation found is depicted or noted hereon.
  - Zone: CML
  - Owner: The Essex Housing Authority of Essex, Connecticut
  - Town of Essex Assessors Map #44 Lot #14
  - Filed in Volume 91, Page 60 of the Town Clerk's office.
  - Contour interval is 2 foot.
  - Existing contours generated from field topography. (Snow cover has an average depth of 18" on the entire site at the time of the field survey.)
  - The locations of the Subsurface Disposal Systems are taken from Map Reference "a" and not located by an accurate field survey.
  - This survey does not include the location of any underground improvements or encroachments, subsurface utility lines or buried debris. Nor does it necessarily reflect the existence of any waste dumps or hazardous materials. The underground items depicted or noted are approximate and are not guaranteed. Notity "CALL BEFORE YOU DIG" 1-800-922-4455 prior to any excavation operations.



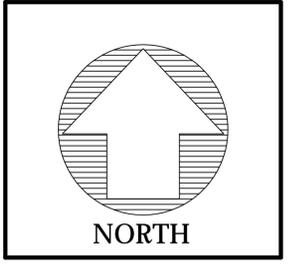
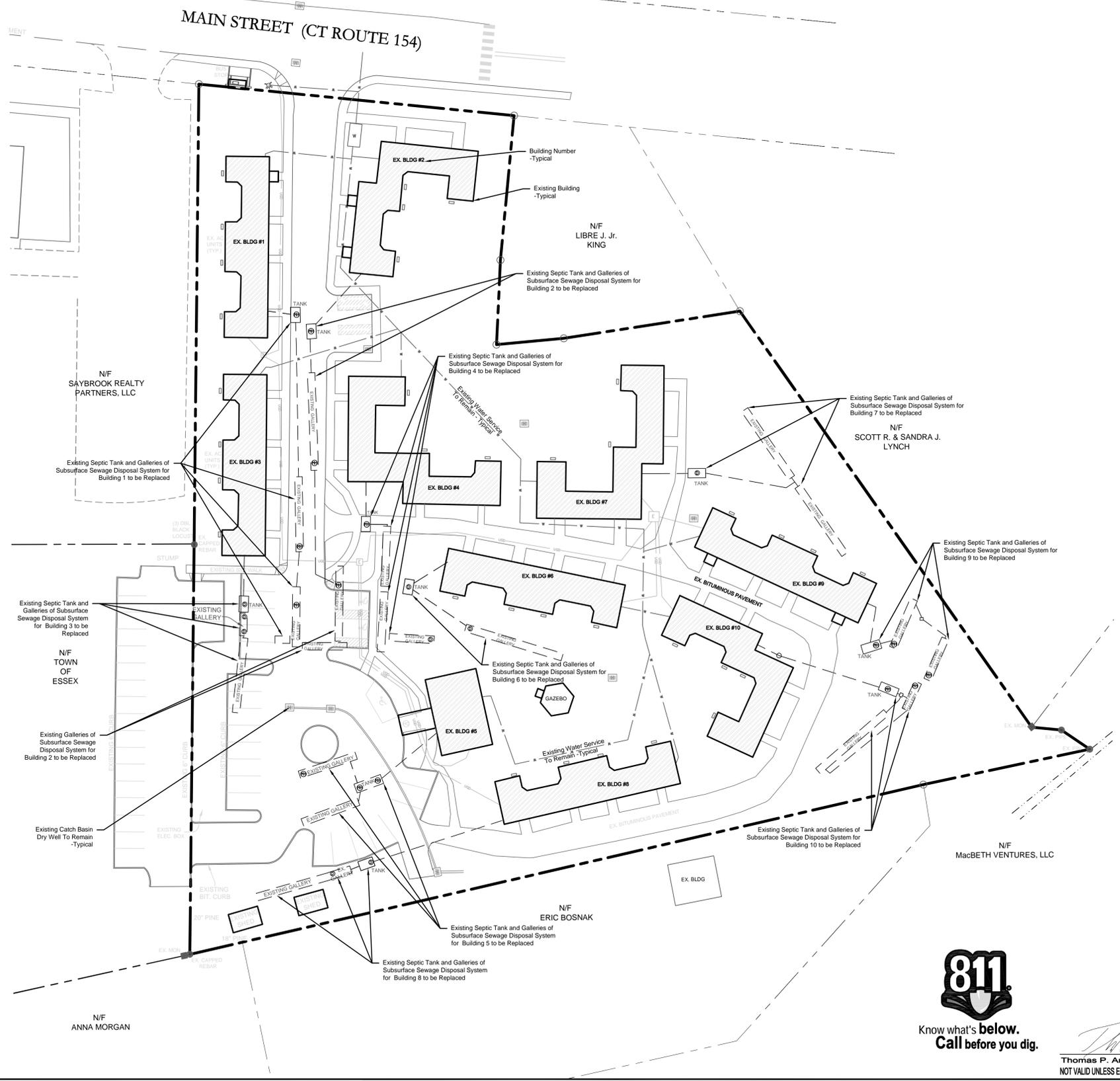
|   |     |   |       |
|---|-----|---|-------|
| EXISTING CONDITIONS<br>PROPERTY SURVEY<br>PREPARED FOR<br><b>THE ESSEX HOUSING AUTHORITY</b><br>16 MAIN STREET<br>CENTERBROOK, CONNECTICUT<br>SCALE: 1" = 30'<br>  |     |  |       |
| DATE: MARCH 3, 2015<br>REVISION: #70145<br>To the best of my knowledge and belief, this map is substantially correct as noted hereon.<br><b>Stephen M. Giudice, L.S.</b><br>Reg. No. #70145<br>NOT VALID UNLESS EMBOSSED SEAL / STAMP IS AFFIXED HERETO |     |   |       |
| F.B. #:   | 480 | PROJECT #:  | 1069A |

DRAWING NAME: P:\Land Projects\1069A\_Dredging Management Corp. - Essex Court\10 Main St. Centerbrook, CT 06108\DWG\1069A\_01 - Overall Layout.dwg LAYOUT.ctb PLOT DATE: Nov 13, 2015 9:55am OPERATOR: bshahine

**GENERAL SITE PLAN NOTES:**

1. The intent of this map is to depict the overall site layout and the location of all buildings and approximate locations of all subsurface sewage disposal systems to be replaced, as well as approximate locations of all underground utilities within the project boundaries.
2. Map References:
  - 2a. "Proposed Survey, Existing Conditions, Prepared for The Essex Housing Authority, 16 Main Street, Essex, Connecticut", Dated: February 24, 2015, Revised: March 3, 2015, Scale: 1"=30', Prepared By Harry E Cole & Son, Stephen Giudice, L.S. #70415
3. No Wetlands are present per the Town of Essex Wetland Map.
4. Site is to remain serviced by town water and private subsurface sewage disposal systems.
5. All work in connection with this plan shall be completed within five years of the date of approval, or the approval is no longer valid.
6. Erosion and Sedimentation control shall conform to the "Connecticut Guidelines for Soil Erosion and Sediment Control" dated May 2002, and amended to date.
7. All construction to conform to C.D.O.T. Form 816 as amended to date.
8. Any regulated activity in a designated Inland Wetland not a part of this plan shall require a separate Inland Wetland Permit.
9. Maximum earth slopes shall be two feet horizontal to one foot vertical.
10. All areas disturbed by construction to be restored with 4" of loam and seeded.
11. All Catch Basins/Inlets shall be cleaned prior to occupancy.
12. Underground fuel tanks are prohibited.
13. Town of Essex Planning and Engineering Departments to be notified at 860-767-4340, 24 hours before site grading begins. Essex Health Department to be notified at 860-767-4340, by installer for inspection prior to backfilling new systems.
14. Prior to any excavation, contractor to notify "CALL BEFORE YOU DIG," 1-800-922-4455.
15. All existing utilities are from best available information, contractor to verify all locations, dimensions, and elevations prior to construction. Notify Engineer of any discrepancies.
16. Refer to Sheets SSDS-1 thru 10 for specific information on each subsurface sewage disposal systems per building.
17. Replacement of Subsurface Sewage Disposal Systems shall be in accordance with the Local Health Department Standards and Regulations.
18. Prior to commencement of work, Contractor shall secure all permits required from any utility or other government agencies having jurisdiction over the work.
19. General contractor to take and verify all dimensions and conditions on the job and shall be held responsible for the same.
20. Contractor is responsible for any damage due to construction activities. Any damage to existing utilities or structure 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 costs to the owner.
21. Contractor shall control noise to as great an extent as possible. All power equipment used during construction shall be equipped with mufflers.
22. Access and utilities to existing facilities, where replacement of system are not commenced, must be maintained by the contractor at no additional cost to the owner. The contractor must maintain sufficient travel lane(s), approved by the owner, to enable all emergency vehicles to access the entire project site.
23. All notes and dimensions designed at "TYP." or "TYPICAL" apply to all similar conditions throughout the project.
24. All locations where existing curb, bituminous concrete roadway or concrete curb or concrete sidewalk to be saw cut, removed and replaced; 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 pavement or curbing.
25. Replacement of pavement, curbs, and sidewalk shall match the grades and slopes that exist prior to construction.
26. Expansion and score joints for new concrete sidewalks shall blend to match existing patterns.
27. Provide expansion joints few new concrete paving at all curbs, tree grates, building walls, site walls, stairs, light pole bases, manholes, grates/vaults, existing concrete paving, stop lights, fire hydrants, and all other fixed materials. Maximum distance between expansion joints shall not exceed 25 feet.
28. Field adjustments must be approved by the owner's representative and appropriate municipal officials prior to construction.
29. Adjust all existing and proposed utility frames, grates, manholes, covers, valve boxes, etc. to be flush with proposed surface.
30. Manufactured items shall be installed, connected and cleaned according to manufacturer's directions.
31. Strip and stockpile topsoil for reuse on site.
32. All excess material, except topsoil, shall be legally disposed of outside of the project limits.
33. All items requiring the removal shall be removed to full depth to include base material and footings or foundations as applicable, and legally disposed of off-site by the contractor.
34. Care should be taken in all excavations due to possible existence of unrecorded utility lines.

| LEGEND |                              |  |                                |
|--------|------------------------------|--|--------------------------------|
|        | = Existing utility pole      |  | = Existing edge of pavement    |
|        | = Existing light pole        |  | = Proposed curbing             |
|        | = Existing fire hydrant      |  | = Existing well                |
|        | = Existing water valve       |  | = Existing catch basin/drywell |
|        | = Existing underground pipe  |  | = Existing drainage manhole    |
|        | = Existing treeline          |  | = Existing sanitary manhole    |
|        | = Existing Property Boundary |  | = Existing utility box         |
|        | = Existing Easement          |  | = Existing sidewalk ramp       |
|        | = Existing Sanitary Pipe     |  | = Existing Concrete Gallery    |
|        | = Proposed Sanitary Pipe     |  | = Proposed Concrete Gallery    |
|        | = Existing contour           |  | = Proposed contour             |
|        | = Existing spot elevation    |  | = Proposed spot elevation      |
|        | = Deep test location         |  | = Percolation test location    |
|        | = Grade to drain             |  | = Proposed Sawcut Limit        |



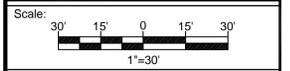
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P.O. Box 44 Fax: (860) 620-0196  
Plainville, CT 06479 - 0044 www.hecole.com

**PROJECT NAME:**  
Proposed Subsurface Sewage Disposal System Replacement for Essex Court  
16 Main Street  
Centerbrook, CT 06409

**PREPARED FOR:**  
Essex Housing Authority

Sheet Description:  
**Overall Site Layout Plan**



Date: November 09, 2015

Project #: 1069A F.B. #: ---

Drawn By: MSL Approved By: TPA

| Date: | Descriptions: |
|-------|---------------|
|       |               |
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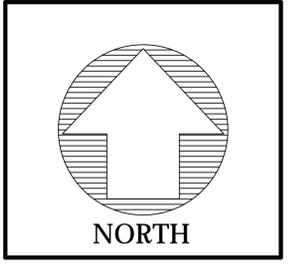
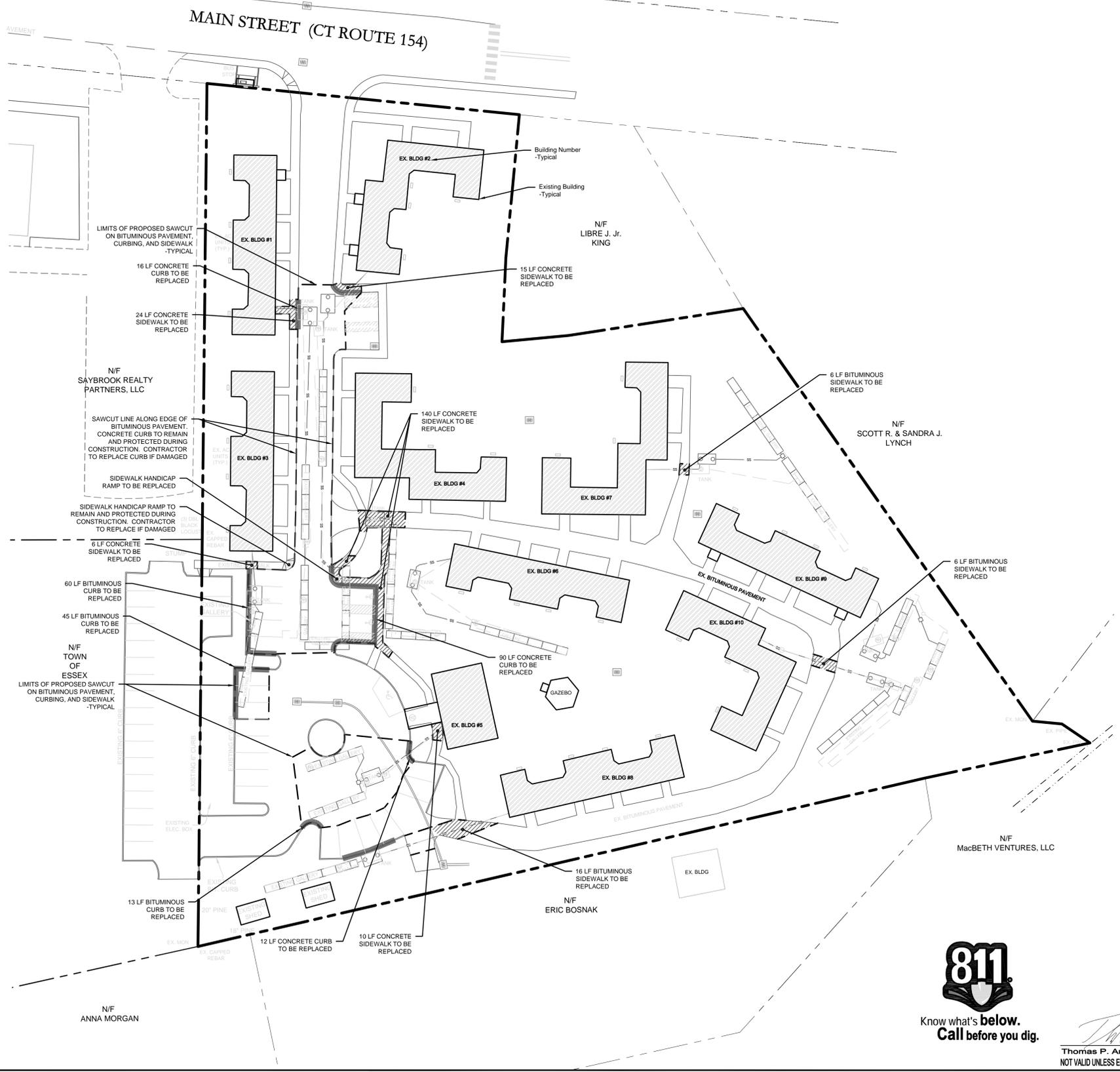
Sheet #:  
**C1**

**811**  
Know what's below.  
Call before you dig.

*Thomas P. Arcari, Sr. P.E.*  
Thomas P. Arcari, Sr. P.E. Reg. No. #8016  
NOT VALID UNLESS EMBOSSED SEAL OR STAMP IS AFFIXED HERETO

DRAWING NAME: P:\Land Projects\1069A\_DaMara Management Corp. - Essex Court\10 Main St. Centerbrook, CT 06409\1069A\_C2 - Pavement and Sidewalk Replacement.dwg LAYOUT, CT, PLOT DATE: Nov 13, 2015, 9:56am OPERATOR: bsherman

| LEGEND |                              |  |                                |
|--------|------------------------------|--|--------------------------------|
|        | = Existing utility pole      |  | = Existing edge of pavement    |
|        | = Existing light pole        |  | = Proposed curbing             |
|        | = Existing fire hydrant      |  | = Existing well                |
|        | = Existing water valve       |  | = Existing catch basin/drywell |
|        | = Existing underground pipe  |  | = Existing drainage manhole    |
|        | = Existing treeline          |  | = Existing sanitary manhole    |
|        | = Existing Property Boundary |  | = Existing utility box         |
|        | = Existing Easement          |  | = Existing sidewalk ramp       |
|        | = Existing Sanitary Pipe     |  | = Existing Concrete Gallery    |
|        | = Proposed Sanitary Pipe     |  | = Proposed Concrete Gallery    |
|        | = Existing contour           |  | = Proposed contour             |
|        | = Existing spot elevation    |  | = Proposed spot elevation      |
|        | = Deep test location         |  | = Percolation test location    |
|        | = Grade to drain             |  | = Proposed Sawcut Limit        |



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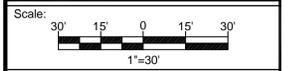
876 South Main Street P.O. Box 44  
Plantville, CT 06479 - 0044

Tel: (860) 628-4484  
Fax: (860) 620-0196  
www.hecole.com

**PROJECT NAME:**  
Proposed Subsurface Sewage Disposal System Replacement for **Essex Court**  
16 Main Street  
Centerbrook, CT 06409

**PREPARED FOR:**  
Essex Housing Authority

Sheet Description:  
**Pavement and Sidewalk Replacement Plan**



|              |                   |
|--------------|-------------------|
| Date:        | November 09, 2015 |
| Project #:   | 1069A             |
| Drawn By:    | MSL               |
| Approved By: | TPA               |
| Revisions:   |                   |
| Date:        | Descriptions:     |
| ----         | ----              |
| ----         | ----              |
| ----         | ----              |
| ----         | ----              |
| ----         | ----              |

Sheet #:  
**C2**

**811**  
Know what's below.  
Call before you dig.

*Thomas P. Arcari, Sr. P.E.*  
#8016  
Reg. No.  
NOT VALID UNLESS EMBOSSED SEAL OR STAMP IS AFFIXED HERETO

DRAWING NAME: P. Land Projects 1000s - Division Management Corp. Date: 09/09/2015 10:00:00 AM

**SUBSURFACE SEWAGE DISPOSAL NOTES:**

- Bench Mark to be set in proximity of septic system area by surveyor prior to the start of construction.
- Private sewer and public water service proposed.
- System to be serial distribution with reversed distribution boxes.
- Topsoil is to be removed and subsoil scarified before constructing trenches.
- Affected areas shall receive 4" of topsoil, fertilize as required and use lawn type grass seed mixture.
- Buried oil tanks are prohibited.
- Soil distribution pipe beyond tank must be 4" PVC SDR-35.
- No bath facilities over 100 gallon capacity or garbage grinders are proposed.
- Percolation tests must be performed in any in-place select quality fill material and tests must be equal to or better than design rate.
- No existing septic systems were found on adjacent property within 75 feet of proposed well. No existing wells were found on adjacent property within 75 feet of proposed septic system.
- Any quality septic fill must meet requirements of local Health Department.
- 90% soil compaction required on any filled septic systems.
- "Select Fill Material" and "Select Backfill Material", placed within and adjacent to proposed leaching areas shall be comprised of clean sand and gravel, free from organic matter and foreign substances. The fill material shall meet the following requirements unless otherwise approved by a professional engineer for use within the leaching area.
  - The fill shall not contain any material larger than three (3) inches.
  - Up to 45% retained on the #4 sieve (This is the gravel portion of the sample.)
  - The material that passes the #4 sieve is then reweighed and the sieve analysis started.
  - The remaining sample shall meet the following gradation criteria:

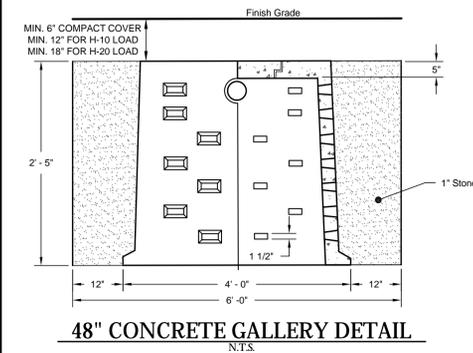
| Sieve Size | Wet Sieve                | Dry Sieve |
|------------|--------------------------|-----------|
| #4         | 100%                     | 100%      |
| #10        | 70%-100%                 | 70%-100%  |
| #40        | 10%-50% (See Note Below) | 10%-75%   |
| #100       | 0%-20%                   | 0%-5%     |
| #200       | 0%-5%                    | 0%-2.5%   |

Note: Percent Passing the #40 sieve can be increased to no greater than 75% if the percent passing the #100 sieve does not exceed 10% and the #200 sieve does not exceed 5%. The responsibility for the preparation of a leaching area utilizing "select material" is that of the licensed installer. The installer shall take the necessary steps to protect the underlying naturally occurring soils from over compaction and siltation once exposed.

**INSTALLER NOTES:**

- Prior to construction, the contractor and/or owner shall obtain a "Permit To Install Subsurface Sewage Disposal System" from the Sanitarian's Office.
- Proposed construction shall conform to the "State Of Connecticut Public Health Code, as amended to date.
- Installer to verify that no existing septic systems on adjacent property fall within 75 feet of this proposed well and no existing wells on adjacent property fall within 75 feet of this proposed septic system.
- No construction activity or stumping shall take place within the primary and reserve areas prior to the subsurface sewage disposal system installation.
- If field conditions (ledge, groundwater, mottling) are encountered at shallower depths than shown in the deep est hole results, the Sanitarian and Design Engineer shall be contacted immediately and construction halted until directed further.
- The Design Engineer and/or Sanitarian shall be contacted prior to back-filling the Subsurface Sewage Disposal System, to take the necessary measurements for the preparation of a "as-built" drawing of the Subsurface Sewage Disposal System construction. A copy of the "As-Built" drawing must be submitted to the local Health Department and design engineer for review and final approval of the Subsurface Sewage Disposal System.
- No deviations from the approved design plan shall be allowed without the prior approval of the local Health Department and Design Engineer.
- The Town Sanitarian shall be notified after the following (as applicable) for inspection:
  - Topsoil removal and subsoil scarification.
  - Placement of fill material.
  - Installation of Subsurface Sewage Disposal System.

**PROPOSED LEACHING STRUCTURE DETAIL:**



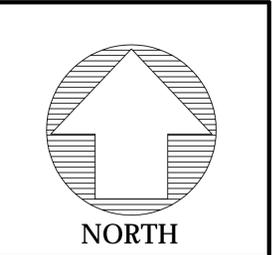
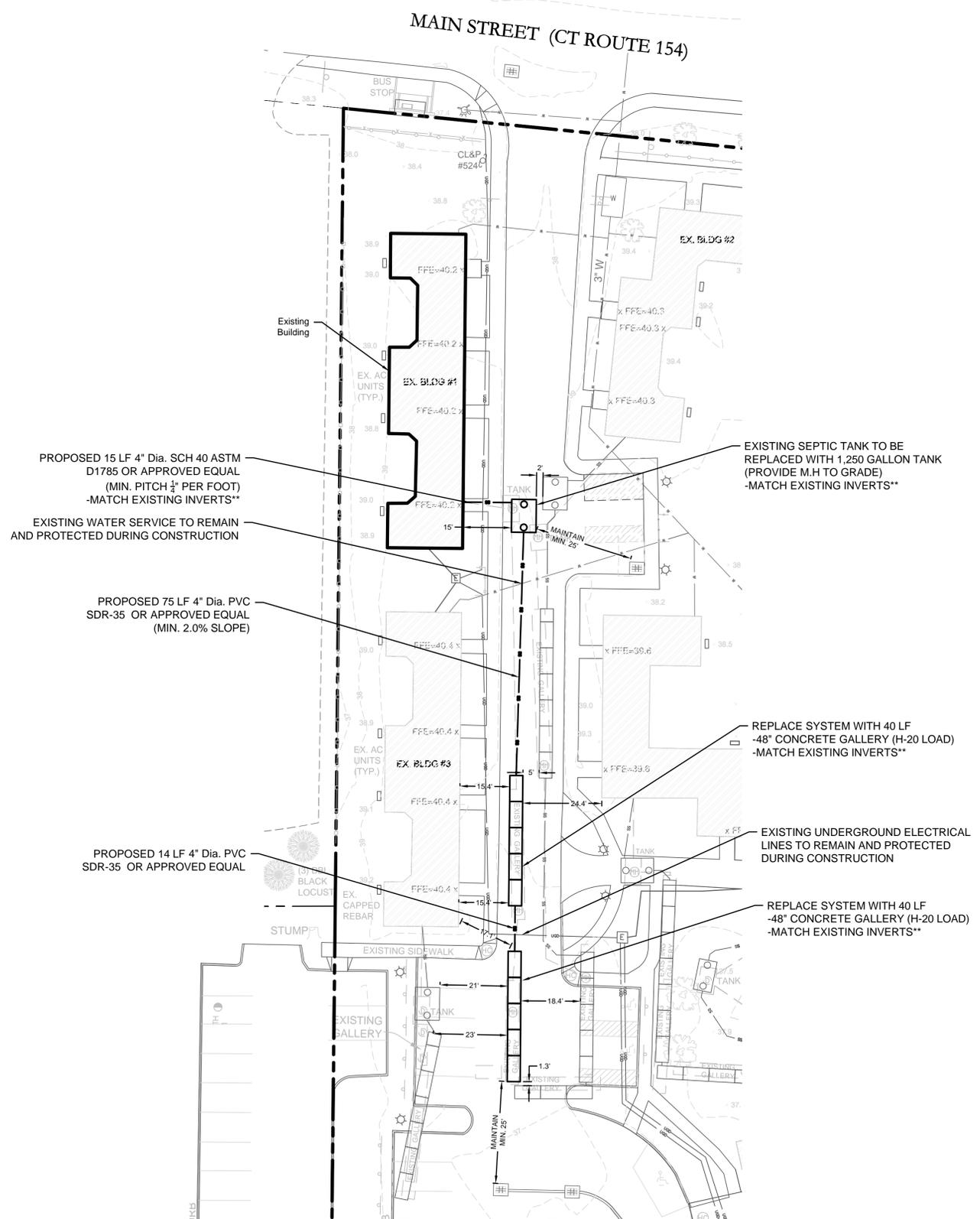
**DESIGN CRITERIA:**

- Existing Building** - 4 single Bedroom Apartments
- Required Septic Tank Capacity:** 1,250 Gal.
- Existing Subsurface Sewage Disposal System:**
  - 4' High by 4' Wide Galleries
  - Gallery Sections in Lengths of 40 LF, 12 LF, 20 LF, 8 LF, (Total 80 LF)
- Proposed Replacement Area:**
  - 80 LF of 48" Concrete Gallery Units
  - (80 LF)(9.2 Ft/LF) = 736 Sq. Ft.
  - 736 Sq. Ft. of Proposed ELA
- \*Existing System Sizes and Locations referenced from:**
  - Proposed Sanitary System Repairs, Prepared For Essex Ederly Housing, Essex, Connecticut, Scale: 1"=20', Dated: 9-11-95, Sheet 1 of 2, Final As Built Received on May 12, 1997, Prepared by Doane Engineering Company
- \*\* System Inverts**
  - Contractor to Match Existing Building Inverts. Contractor to Attempt to Hold Existing Elevations of Septic Tank and Gallery Inverts, however, Proper Pitch and Slope of Pipe as well as Required Depth Below Finished Grade for H-20 Structures are to Take Precedence.



**LEGEND**

|  |                              |  |                                |  |                             |
|--|------------------------------|--|--------------------------------|--|-----------------------------|
|  | = Existing utility pole      |  | = Existing edge of pavement    |  | = Existing contour          |
|  | = Existing light pole        |  | = Proposed curbing             |  | = Existing spot elevation   |
|  | = Existing fire hydrant      |  | = Existing well                |  | = Proposed contour          |
|  | = Existing water valve       |  | = Existing catch basin/drywell |  | = Proposed spot elevation   |
|  | = Existing underground pipe  |  | = Existing drainage manhole    |  | = Deep test location        |
|  | = Existing treeline          |  | = Existing sanitary manhole    |  | = Percolation test location |
|  | = Existing Property Boundary |  | = Existing utility box         |  | = Grade to drain            |
|  | = Existing Easement          |  | = Existing sidewalk ramp       |  | = Proposed Sawcut Limit     |
|  | = Existing Sanitary Pipe     |  | = Existing Concrete Gallery    |  |                             |
|  | = Proposed Sanitary Pipe     |  | = Proposed Concrete Gallery    |  |                             |



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Plantsville, CT 06479 - 0044 www.hccole.com

**PROJECT NAME:**  
Proposed Subsurface Sewage Disposal System Replacement for **Essex Court**  
16 Main Street  
Centerbrook, CT 06409

**PREPARED FOR:**  
Essex Housing Authority

Sheet Description:  
**BUILDING #1 - Subsurface Sewage Disposal System Replacement Plan**

Scale: 1"=20'

|              |                   |
|--------------|-------------------|
| Date:        | November 09, 2015 |
| Project #:   | 1069A             |
| Drawn By:    | MSL               |
| Approved By: | TPA               |
| Revisions:   |                   |
| Date:        | Descriptions:     |
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Sheet #:  
**SSDS-1**

*Thomas P. Arcari, Sr. P.E.*  
Thomas P. Arcari, Sr. P.E. Reg. No. #8016  
NOT VALID UNLESS EMBOSSED SEAL OR STAMP IS AFFIXED HERETO

DRAWING NAME: P. Land Projects 10/09 - Dalkem Management Corp. - Essex Court 18 Main St. Centerbrook, CT 06479 - 0044 - SSDS-1 (10/09) LAYOUT: SSBS-2

**SUBSURFACE SEWAGE DISPOSAL NOTES:**

- Bench Mark to be set in proximity of septic system area by surveyor prior to the start of construction.
- Private sewer and public water service proposed.
- System to be serial distribution with reversed distribution boxes.
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- No bath facilities over 100 gallon capacity or garbage grinders are proposed.
- Percolation tests must be performed in any in-place select quality fill material and tests must be equal to or better than design rate.
- No existing septic systems were found on adjacent property within 75 feet of proposed well. No existing wells were found on adjacent property within 75 feet of proposed septic system.
- Any quality septic fill must meet requirements of local Health Department.
- 90% soil compaction required on any filled septic systems.
- "Select Fill Material" and "Select Backfill Material", placed within and adjacent to proposed leaching areas shall be comprised of clean sand and gravel, free from organic matter and foreign substances. The fill material shall meet the following requirements unless otherwise approved by a professional engineer for use within the leaching area.
  - The fill shall not contain any material larger than three (3) inches.
  - Up to 45% retained on the #4 sieve (This is the gravel portion of the sample.)
  - The material that passes the #4 sieve is then reweighed and the sieve analysis started.
  - The remaining sample shall meet the following gradation criteria:

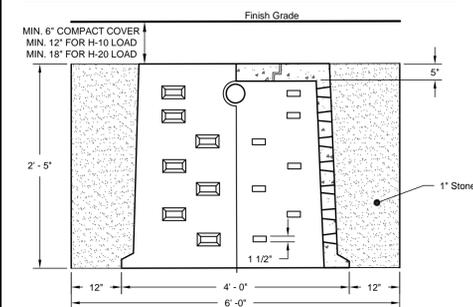
| Sieve Size | Wet Sieve                | Dry Sieve |
|------------|--------------------------|-----------|
| #4         | 100%                     | 100%      |
| #10        | 70%-100%                 | 70%-100%  |
| #40        | 10%-50% (See Note Below) | 10%-75%   |
| #100       | 0%-20%                   | 0%-5%     |
| #200       | 0%-5%                    | 0%-2.5%   |

**Note:** Percent Passing the #40 sieve can be increased to no greater than 75% if the percent passing the #100 sieve does not exceed 10% and the #200 sieve does not exceed 5%. The responsibility for the preparation of a leaching area utilizing "select material" is that of the licensed installer. The installer shall take the necessary steps to protect the underlying naturally occurring soils from over compaction and siltation once exposed.

**INSTALLER NOTES:**

- Prior to construction, the contractor and/or owner shall obtain a "Permit To Install Subsurface Sewage Disposal System" from the Sanitarian's Office.
- Proposed construction shall conform to the "State Of Connecticut Public Health Code, as amended to date.
- Installer to verify that no existing septic systems on adjacent property fall within 75 feet of this proposed well and no existing wells on adjacent property fall within 75 feet of this proposed septic system.
- No construction activity or stumping shall take place within the primary and reserve areas prior to the subsurface sewage disposal system installation.
- If field conditions (ledge, groundwater, mottling) are encountered at shallower depths than shown in the deep test hole results, the Sanitarian and Design Engineer shall be contacted immediately and construction halted until directed further.
- The Design Engineer and/or Sanitarian shall be contacted prior to back-filling the Subsurface Sewage Disposal System, to take the necessary measurements for the preparation of a "as-built" drawing of the Subsurface Sewage Disposal System construction. A copy of the "As-Built" drawing must be submitted to the local Health Department and design engineer for review and final approval of the Subsurface Sewage Disposal System.
- No deviations from the approved design plan shall be allowed without the prior approval of the local Health Department and Design Engineer.
- The Town Sanitarian shall be notified after the following (as applicable) for inspection:
  - Topsoil removal and subsoil scarification.
  - Placement of fill material.
  - Installation of Subsurface Sewage Disposal System.

**PROPOSED LEACHING STRUCTURE DETAIL:**



**48" CONCRETE GALLERY DETAIL**  
N.T.S.

**DESIGN CRITERIA:**

- Existing Building** - 4 single Bedroom Apartments
- Required Septic Tank Capacity:** 1,250 Gal.
- Existing Subsurface Sewage Disposal System:**
  - 4' High by 4' Wide Galleries
  - Gallery Sections in Lengths of 52 LF, 40 LF, 24 LF, (Total 118 LF)
- Proposed Replacement Area:**
  - 118 LF of 48" Concrete Gallery Units
  - (118 LF)(9.2 Fv/LF) = 1085.6 Sq. Ft.
  - 1085.6 Sq. Ft. of Proposed ELA
- Existing System Sizes and Locations referenced from:**
  - "Proposed Sanitary System Repairs, Prepared For Essex Ederly Housing, Essex, Connecticut, Scale: 1"=20", Dated: 9-11-95, Sheet 1 of 2, Final As Built Received on May 12, 1997, Prepared by Doane Engineering Company

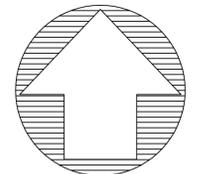
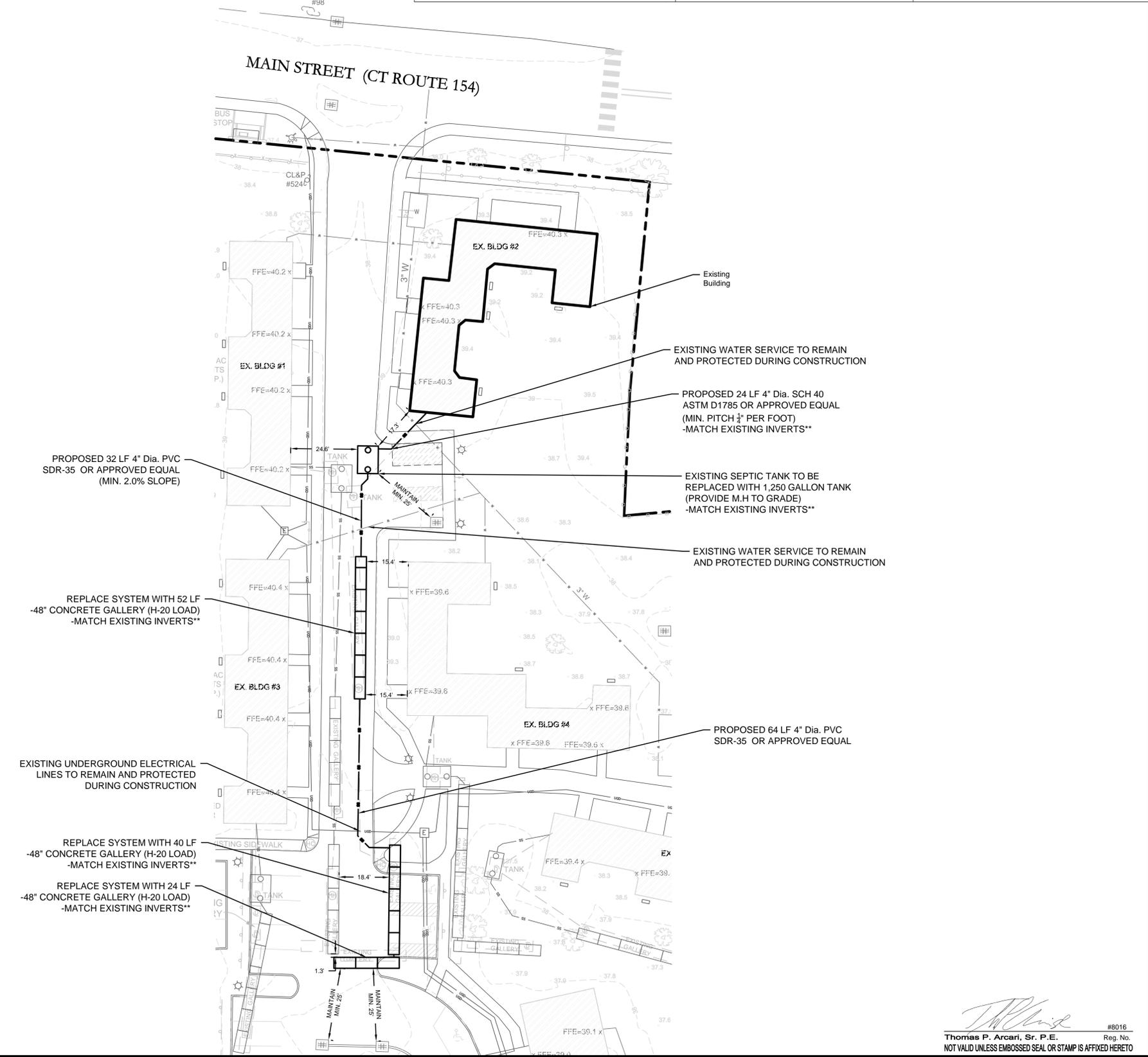
**\*\* System Inverts**  
- Contractor to Match Existing Building Inverts. Contractor to Attempt to Hold Existing Elevations of Septic Tank and Gallery Inverts, however, Proper Pitch and Slope of Pipe as well as Required Depth Below Finished Grade for H-20 Structures are to Take Precedence.



Know what's below.  
Call before you dig.

**LEGEND**

|  |                              |  |                                |  |                             |
|--|------------------------------|--|--------------------------------|--|-----------------------------|
|  | = Existing utility pole      |  | = Existing edge of pavement    |  | = Existing contour          |
|  | = Existing light pole        |  | = Proposed curbing             |  | = Existing spot elevation   |
|  | = Existing fire hydrant      |  | = Existing well                |  | = Proposed contour          |
|  | = Existing water valve       |  | = Existing catch basin/drywell |  | = Proposed spot elevation   |
|  | = Existing underground pipe  |  | = Existing drainage manhole    |  | = Deep test location        |
|  | = Existing treeline          |  | = Existing sanitary manhole    |  | = Percolation test location |
|  | = Existing Property Boundary |  | = Existing utility box         |  | = G.T.D.                    |
|  | = Existing Easement          |  | = Existing sidewalk ramp       |  | = Proposed Sawcut Limit     |
|  | = Existing Sanitary Pipe     |  | = Existing Concrete Gallery    |  |                             |
|  | = Proposed Sanitary Pipe     |  | = Proposed Concrete Gallery    |  |                             |



NORTH

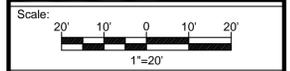
**cole**  
HARRY E. COLE & SON  
engineering, surveying, planning.

876 South Main Street Tel: (860) 628-4484  
P.O. Box 44 Fax: (860) 620-0196  
Plantsville, CT 06479 - 0044 www.heccole.com

**PROJECT NAME:**  
Proposed Subsurface Sewage Disposal System Replacement for **Essex Court**  
16 Main Street  
Centerbrook, CT 06409

**PREPARED FOR:**  
Essex Housing Authority

Sheet Description:  
**BUILDING #2 - Subsurface Sewage Disposal System Replacement Plan**



Scale: 1"=20'

Date: November 09, 2015

Project #: 1069A F.B. #: ---

Drawn By: MSL Approved By: TPA

Revisions:

| Date: | Descriptions: |
|-------|---------------|
| ----  | ----          |
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Sheet #:  
**SSDS-2**

Thomas P. Arcari, Sr. P.E. #8016  
Reg. No.  
NOT VALID UNLESS EMBOSSED SEAL OR STAMP IS AFFIXED HERETO

DRAWING NAME: P. Land Projects 1000s - Deane Management Corp. - 1600 Main St. - Centerbrook, CT 06479 - 0044 - SSDS-3 - 11/16/15 - 11/16/15

**SUBSURFACE SEWAGE DISPOSAL NOTES:**

- Bench Mark to be set in proximity of septic system area by surveyor prior to the start of construction.
- Private sewer and public water service proposed.
- System to be serial distribution with reversed distribution boxes.
- Topsoil is to be removed and subsoil scarified before constructing trenches.
- Affected areas shall receive 4" of topsoil, fertilize as required and use lawn type grass seed mixture.
- Buried oil tanks are prohibited.
- Soil distribution pipe beyond tank must be 4" PVC SDR-35.
- No bath facilities over 100 gallon capacity or garbage grinders are proposed.
- Percolation tests must be performed in any in-place select quality fill material and tests must be equal to or better than design rate.
- No existing septic systems were found on adjacent property within 75 feet of proposed well. No existing wells were found on adjacent property within 75 feet of proposed septic system.
- Any quality septic fill must meet requirements of local Health Department.
- 90% soil compaction required on any filled septic systems.
- "Select Fill Material" and "Select Backfill Material", placed within and adjacent to proposed leaching areas shall be comprised of clean sand and gravel, free from organic matter and foreign substances. The fill material shall meet the following requirements unless otherwise approved by a professional engineer for use within the leaching area:
  - The fill shall not contain any material larger than three (3) inches.
  - Up to 45% retained on the #4 sieve (This is the gravel portion of the sample.)
  - The material that passes the #4 sieve is then reweighed and the sieve analysis started.
  - The remaining sample shall meet the following gradation criteria:

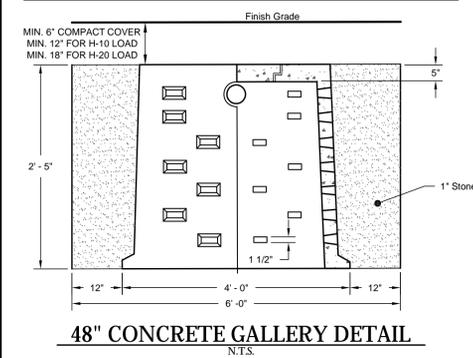
| Sieve Size | Wet Sieve                | Dry Sieve |
|------------|--------------------------|-----------|
| #4         | 100%                     | 100%      |
| #10        | 70%-100%                 | 70%-100%  |
| #40        | 10%-50% (See Note Below) | 10%-75%   |
| #100       | 0%-20%                   | 0%-5%     |
| #200       | 0%-5%                    | 0%-2.5%   |

Note: Percent Passing the #40 sieve can be increased to no greater than 75% if the percent passing the #100 sieve does not exceed 10% and the #200 sieve does not exceed 5%. The responsibility for the preparation of a leaching area utilizing "select material" is that of the licensed installer. The installer shall take the necessary steps to protect the underlying naturally occurring soils from over compaction and siltation once exposed.

**INSTALLER NOTES:**

- Prior to construction, the contractor and/or owner shall obtain a "Permit To Install Subsurface Sewage Disposal System" from the Sanitarian's Office.
- Proposed construction shall conform to the "State Of Connecticut Public Health Code, as amended to date.
- Installer to verify that no existing septic systems on adjacent property fall within 75 feet of this proposed well and no existing wells on adjacent property fall within 75 feet of this proposed septic system.
- No construction activity or stumping shall take place within the primary and reserve areas prior to the subsurface sewage disposal system installation.
- If field conditions (ledge, groundwater, mottling) are encountered at shallower depths than shown in the deep est hole results, the Sanitarian and Design Engineer shall be contacted immediately and construction halted until directed further.
- The Design Engineer and/or Sanitarian shall be contacted prior to back-filling the Subsurface Sewage Disposal System, to take the necessary measurements for the preparation of a "as-built" drawing of the Subsurface Sewage Disposal System construction. A copy of the "As-Built" drawing must be submitted to the local Health Department and design engineer for review and final approval of the Subsurface Sewage Disposal System.
- No deviations from the approved design plan shall be allowed without the prior approval of the local Health Department and Design Engineer.
- The Town Sanitarian shall be notified after the following (as applicable) for inspection:
  - Topsoil removal and subsoil scarification.
  - Placement of fill material.
  - Installation of Subsurface Sewage Disposal System.

**PROPOSED LEACHING STRUCTURE DETAIL:**



**DESIGN CRITERIA:**

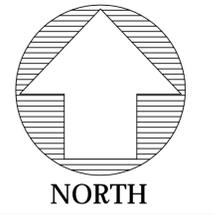
- Existing Building** - 4 single Bedroom Apartments
- Required Septic Tank Capacity:** 1,250 Gal.
- Existing Subsurface Sewage Disposal System:**
  - 4' High by 4' Wide Galleries
  - Gallery Sections in Lengths of 40 LF, 12 LF, (Total 52 LF)
- Proposed Replacement Area:**
  - 52 LF of 48" Concrete Gallery Units
  - (52 LF)(9.2 Fv/LF) = 478.4 Sq. Ft.
  - 478.4 Sq. Ft. of Proposed ELA
- Existing System Sizes and Locations referenced from:**
  - "Proposed Sanitary System Repairs, Prepared For Essex Ederly Housing, Essex, Connecticut, Scale: 1"=20', Dated: 9-11-95, Sheet 1 of 2, Final As Built Received on May 12, 1997, Prepared by Doane Engineering Company

**\*\* System Inverts**  
 - Contractor to Match Existing Building Inverts. Contractor to Attempt to Hold Existing Elevations of Septic Tank and Gallery Inverts, however, Proper Pitch and Slope of Pipe as well as Required Depth Below Finished Grade for H-20 Structures are to Take Precedence.



**LEGEND**

|  |                              |  |                                |  |                             |
|--|------------------------------|--|--------------------------------|--|-----------------------------|
|  | = Existing utility pole      |  | = Existing edge of pavement    |  | = Existing contour          |
|  | = Existing light pole        |  | = Proposed curbing             |  | = Existing spot elevation   |
|  | = Existing fire hydrant      |  | = Existing well                |  | = Proposed contour          |
|  | = Existing water valve       |  | = Existing catch basin/drywell |  | = Proposed spot elevation   |
|  | = Existing underground pipe  |  | = Existing drainage manhole    |  | = Deep test location        |
|  | = Existing treeline          |  | = Existing sanitary manhole    |  | = Percolation test location |
|  | = Existing Property Boundary |  | = Existing utility box         |  | = Grade to drain            |
|  | = Existing Easement          |  | = Existing sidewalk ramp       |  | = Proposed Sawcut Limit     |
|  | = Existing Sanitary Pipe     |  | = Existing Concrete Gallery    |  |                             |
|  | = Proposed Sanitary Pipe     |  | = Proposed Concrete Gallery    |  |                             |



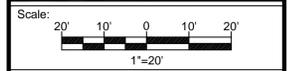
**cole**  
 HARRY E. COLE & SON  
 engineering. surveying. planning.

876 South Main Street Tel: (860) 628-4484  
 P.O. Box 44 Fax: (860) 620-0196  
 Plantsville, CT 06479 - 0044 www.hccole.com

**PROJECT NAME:**  
 Proposed Subsurface Sewage Disposal System Replacement for **Essex Court**  
 16 Main Street  
 Centerbrook, CT 06409

**PREPARED FOR:**  
 Essex Housing Authority

Sheet Description:  
 ---- - Subsurface Sewage Disposal System Replacement Plan



Date: November 09, 2015

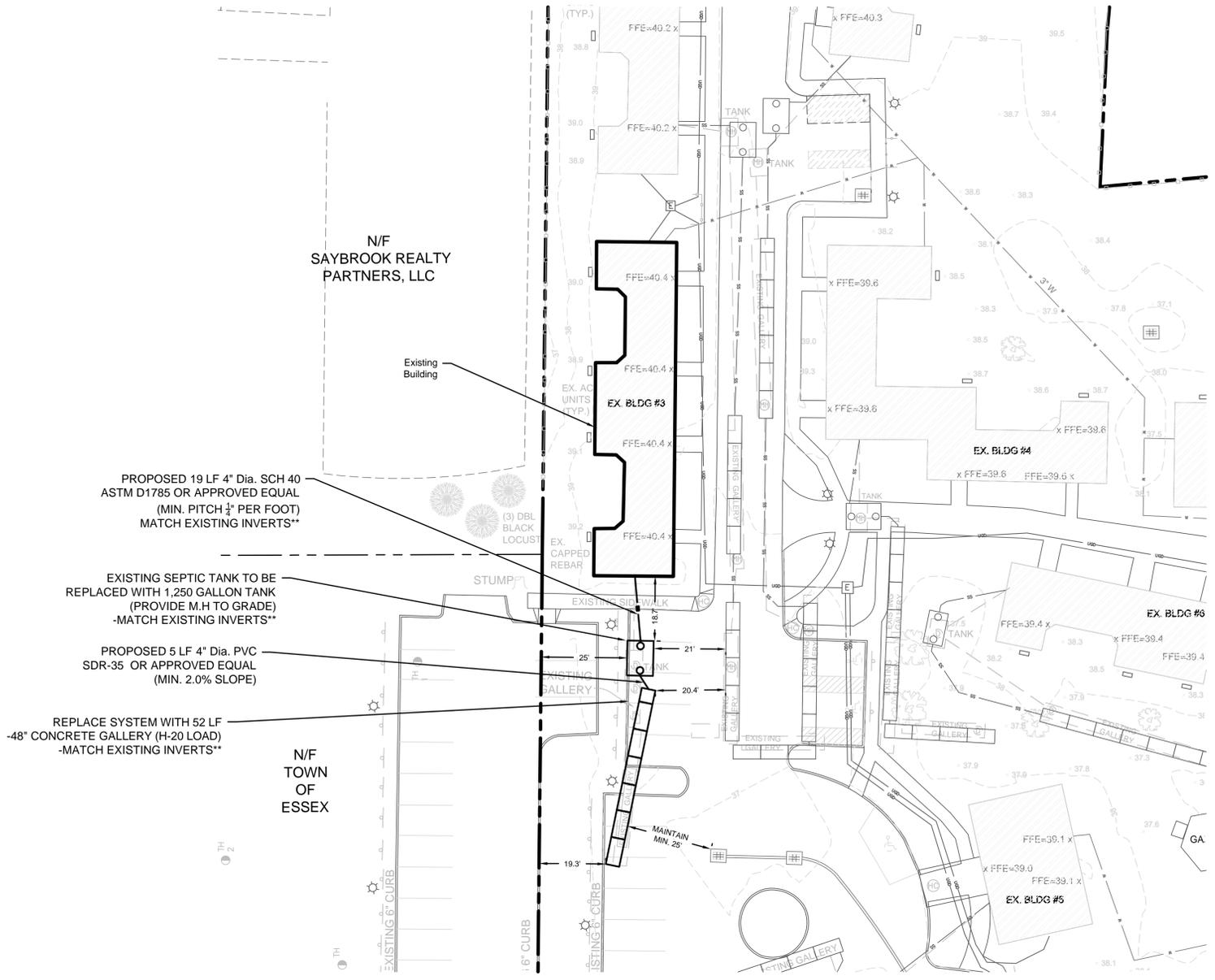
Project #: 1069A F.B. #: ---

Drawn By: MSL Approved By: TPA

Revisions:

| Date: | Descriptions: |
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Sheet #:  
**SSDS-3**



*Thomas P. Arcari*  
 Thomas P. Arcari, Sr. P.E. Reg. No. #8016  
 NOT VALID UNLESS EMBOSSED SEAL OR STAMP IS AFFIXED HERETO

DRAWING NAME: P:\Land Projects\1000s-Division Management Corp. - Item 10 Main St. Centerbrook, CT 06479-0044 - SSDS-4 11/09.dwg LAYOUT: SSDS-4 11/09.dwg

**SUBSURFACE SEWAGE DISPOSAL NOTES:**

- Bench Mark to be set in proximity of septic system area by surveyor prior to the start of construction.
- Private sewer and public water service proposed.
- System to be serial distribution with reversed distribution boxes.
- Topsoil is to be removed and subsoil scarified before constructing trenches.
- Affected areas shall receive 4" of topsoil, fertilize as required and use lawn type grass seed mixture.
- Buried oil tanks are prohibited.
- Soil distribution pipe beyond tank must be 4" PVC SDR-35.
- No bath facilities over 100 gallon capacity or garbage grinders are proposed.
- Percolation tests must be performed in any in-place select quality fill material and tests must be equal to or better than design rate.
- No existing septic systems were found on adjacent property within 75 feet of proposed well. No existing wells were found on adjacent property within 75 feet of proposed septic system.
- Any quality septic fill must meet requirements of local Health Department.
- 90% soil compaction required on any filled septic systems.
- "Select Fill Material" and "Select Backfill Material", placed within and adjacent to proposed leaching areas shall be comprised of clean sand and gravel, free from organic matter and foreign substances. The fill material shall meet the following requirements unless otherwise approved by a professional engineer for use within the leaching area.
  - The fill shall not contain any material larger than three (3) inches.
  - Up to 45% retained on the #4 sieve (This is the gravel portion of the sample.)
  - The material that passes the #4 sieve is then reweighed and the sieve analysis started.
  - The remaining sample shall meet the following gradation criteria:

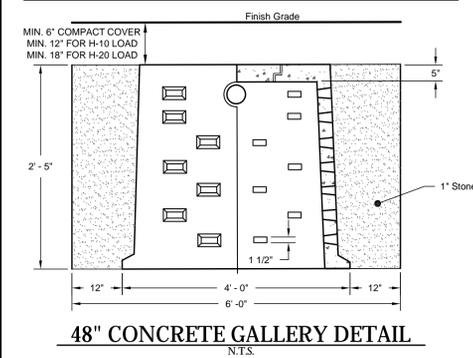
| Sieve Size | Wet Sieve                | Dry Sieve |
|------------|--------------------------|-----------|
| #4         | 100%                     | 100%      |
| #10        | 70%-100%                 | 70%-100%  |
| #40        | 10%-50% (See Note Below) | 10%-75%   |
| #100       | 0%-20%                   | 0%-5%     |
| #200       | 0%-5%                    | 0%-2.5%   |

**Note:** Percent Passing the #40 sieve can be increased to no greater than 75% if the percent passing the #100 sieve does not exceed 10% and the #200 sieve does not exceed 5%. The responsibility for the preparation of a leaching area utilizing "select material" is that of the licensed installer. The installer shall take the necessary steps to protect the underlying naturally occurring soils from over compaction and siltation once exposed.

**INSTALLER NOTES:**

- Prior to construction, the contractor and/or owner shall obtain a "Permit To Install Subsurface Sewage Disposal System" from the Sanitarian's Office.
- Proposed construction shall conform to the "State Of Connecticut Public Health Code, as amended to date.
- Installer to verify that no existing septic systems on adjacent property fall within 75 feet of this proposed well and no existing wells on adjacent property fall within 75 feet of this proposed septic system.
- No construction activity or stumping shall take place within the primary and reserve areas prior to the subsurface sewage disposal system installation.
- If field conditions (ledge, groundwater, mottling) are encountered at shallower depths than shown in the deep est hole results, the Sanitarian and Design Engineer shall be contacted immediately and construction halted until directed further.
- The Design Engineer and/or Sanitarian shall be contacted prior to back-filling the Subsurface Sewage Disposal System, to take the necessary measurements for the preparation of a "as-built" drawing of the Subsurface Sewage Disposal System construction. A copy of the "As-Built" drawing must be submitted to the local Health Department and design engineer for review and final approval of the Subsurface Sewage Disposal System.
- No deviations from the approved design plan shall be allowed without the prior approval of the local Health Department and Design Engineer.
- The Town Sanitarian shall be notified after the following (as applicable) for inspection:
  - Topsoil removal and subsoil scarification.
  - Placement of fill material.
  - Installation of Subsurface Sewage Disposal System.

**PROPOSED LEACHING STRUCTURE DETAIL:**

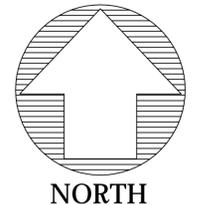
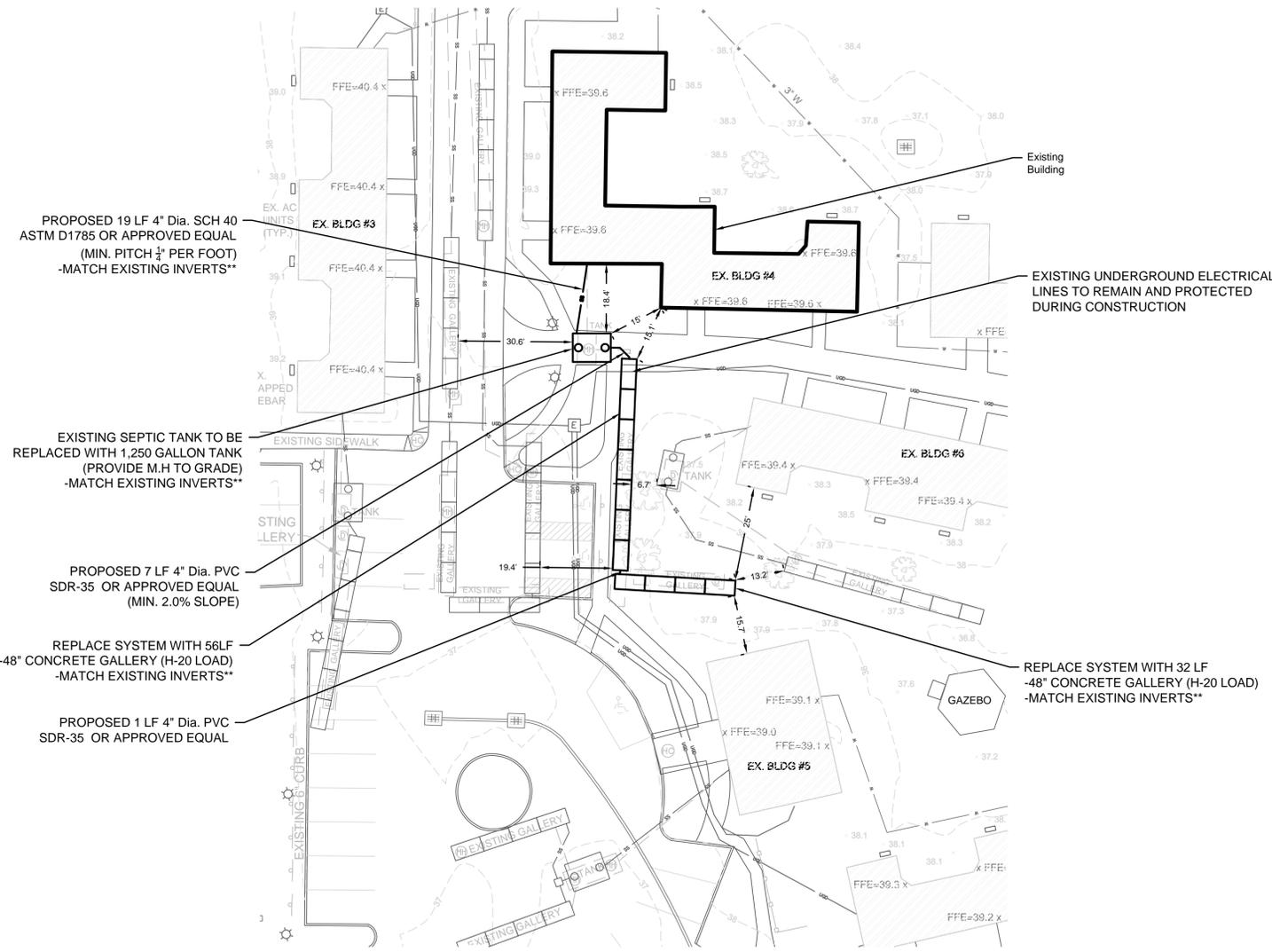


**DESIGN CRITERIA:**

- Existing Building** - 4 single Bedroom Apartments
- Required Septic Tank Capacity:** 1,250 Gal.
- Existing Subsurface Sewage Disposal System:**
  - 4' High by 4' Wide Galleries
  - Gallery Sections in Lengths of 56 LF, 32 LF, (Total 88 LF)
- Proposed Replacement Area:**
  - 88 LF of 48" Concrete Gallery Units
  - (88 LF)(9.2 Fv/LF) = 809.6 Sq. Ft.
  - 809.6 Sq. Ft. of Proposed ELA
- \*Existing System Sizes and Locations referenced from:**
  - "Proposed Sanitary System Repairs, Prepared For Essex Ederly Housing, Essex, Connecticut, Scale: 1"=20', Dated: 9-11-95, Sheet 1 of 2, Final As Built Received on May 12, 1997, Prepared by Doane Engineering Company
- \*\* System Inverts**
  - Contractor to Match Existing Building Inverts. Contractor to Attempt to Hold Existing Elevations of Septic Tank and Gallery Inverts, however, Proper Pitch and Slope of Pipe as well as Required Depth Below Finished Grade for H-20 Structures are to Take Precedence.



| LEGEND |                              |  |                                |
|--------|------------------------------|--|--------------------------------|
|        | = Existing utility pole      |  | = Existing edge of pavement    |
|        | = Existing light pole        |  | = Proposed curbing             |
|        | = Existing fire hydrant      |  | = Existing well                |
|        | = Existing water valve       |  | = Existing catch basin/drywell |
|        | = Existing underground pipe  |  | = Existing drainage manhole    |
|        | = Existing treeline          |  | = Existing sanitary manhole    |
|        | = Existing Property Boundary |  | = Existing utility box         |
|        | = Existing Easement          |  | = Existing sidewalk ramp       |
|        | = Existing Sanitary Pipe     |  | = Existing Concrete Gallery    |
|        | = Proposed Sanitary Pipe     |  | = Proposed Concrete Gallery    |
|        | = Existing contour           |  | = Existing spot elevation      |
|        | = Proposed contour           |  | = Proposed spot elevation      |
|        | = Deep test location         |  | = Percolation test location    |
|        | = Grade to drain             |  | = Proposed Sawcut Limit        |



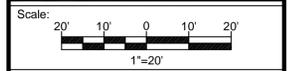
**cole**  
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876 South Main Street Tel: (860) 628-4484  
P.O. Box 44 Fax: (860) 620-0196  
Plantsville, CT 06479 - 0044 www.hccole.com

**PROJECT NAME:**  
Proposed Subsurface Sewage Disposal System Replacement for **Essex Court**  
16 Main Street  
Centerbrook, CT 06409

**PREPARED FOR:**  
Essex Housing Authority

**BUILDING #4 - Subsurface Sewage Disposal System Replacement Plan**



Date: November 09, 2015

Project #: 1069A F.B. #: ---

Drawn By: MSL Approved By: TPA

Revisions:

| Date: | Descriptions: |
|-------|---------------|
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Sheet #:  
**SSDS-4**

Thomas P. Arcari, Sr. P.E. Reg. No. #8016  
NOT VALID UNLESS EMBOSSED SEAL OR STAMP IS AFFIXED HERETO

**SUBSURFACE SEWAGE DISPOSAL NOTES:**

- Bench Mark to be set in proximity of septic system area by surveyor prior to the start of construction.
- Private sewer and public water service proposed.
- System to be serial distribution with reversed distribution boxes.
- Topsoil is to be removed and subsoil scarified before constructing trenches.
- Affected areas shall receive 4" of topsoil, fertilize as required and use lawn type grass seed mixture.
- Buried oil tanks are prohibited.
- Soil distribution pipe beyond tank must be 4" PVC SDR-35.
- No bath facilities over 100 gallon capacity or garbage grinders are proposed.
- Percolation tests must be performed in any in-place select quality fill material and tests must be equal to or better than design rate.
- No existing septic systems were found on adjacent property within 75 feet of proposed well. No existing wells were found on adjacent property within 75 feet of proposed septic system.
- Any quality septic fill must meet requirements of local Health Department.
- 90% soil compaction required on any filled septic systems.
- "Select Fill Material" and "Select Backfill Material", placed within and adjacent to proposed leaching areas shall be comprised of clean sand and gravel, free from organic matter and foreign substances. The fill material shall meet the following requirements unless otherwise approved by a professional engineer for use within the leaching area.
  - The fill shall not contain any material larger than three (3) inches.
  - Up to 45% retained on the #4 sieve (This is the gravel portion of the sample.)
  - The material that passes the #4 sieve is then reweighed and the sieve analysis started.
  - The remaining sample shall meet the following gradation criteria:

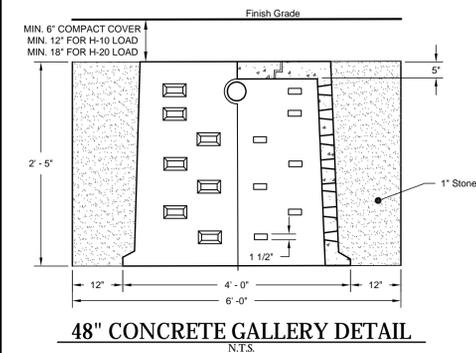
| Sieve Size | Wet Sieve                | Dry Sieve |
|------------|--------------------------|-----------|
| #4         | 100%                     | 100%      |
| #10        | 70%-100%                 | 70%-100%  |
| #40        | 10%-50% (See Note Below) | 10%-75%   |
| #100       | 0%-20%                   | 0%-5%     |
| #200       | 0%-5%                    | 0%-2.5%   |

Note: Percent Passing the #40 sieve can be increased to no greater than 75% if the percent passing the #100 sieve does not exceed 10% and the #200 sieve does not exceed 5%. The responsibility for the preparation of a leaching area utilizing "select material" is that of the licensed installer. The installer shall take the necessary steps to protect the underlying naturally occurring soils from over compaction and siltation once exposed.

**INSTALLER NOTES:**

- Prior to construction, the contractor and/or owner shall obtain a "Permit To Install Subsurface Sewage Disposal System" from the Sanitarian's Office.
- Proposed construction shall conform to the "State Of Connecticut Public Health Code, as amended to date.
- Installer to verify that no existing septic systems on adjacent property fall within 75 feet of this proposed well and no existing wells on adjacent property fall within 75 feet of this proposed septic system.
- No construction activity or stumping shall take place within the primary and reserve areas prior to the subsurface sewage disposal system installation.
- If field conditions (ledge, groundwater, mottling) are encountered at shallower depths than shown in the deep est hole results, the Sanitarian and Design Engineer shall be contacted immediately and construction halted until directed further.
- The Design Engineer and/or Sanitarian shall be contacted prior to back-filling the Subsurface Sewage Disposal System, to take the necessary measurements for the preparation of a "as-built" drawing of the Subsurface Sewage Disposal System construction. A copy of the "As-Built" drawing must be submitted to the local Health Department and design engineer for review and final approval of the Subsurface Sewage Disposal System.
- No deviations from the approved design plan shall be allowed without the prior approval of the local Health Department and Design Engineer.
- The Town Sanitarian shall be notified after the following (as applicable) for inspection:
  - Topsoil removal and subsoil scarification.
  - Placement of fill material.
  - Installation of Subsurface Sewage Disposal System.

**PROPOSED LEACHING STRUCTURE DETAIL:**



**DESIGN CRITERIA:**

- Existing Building** - 1 Washing Machine (400 GPD)  
- Community Kitchen (Max Occupancy 60 X 5 GPD = 300)  
- Total = 700 GPD
- Required Septic Tank Capacity:** 1,000 Gal.
- Existing Subsurface Sewage Disposal System:**  
- 4' High by 4' Wide Galleries  
- Gallery Sections in Lengths of 32 LF, 32 LF, (Total 64 LF)
- Proposed Replacement Area:**  
- 64 LF of 48" Concrete Gallery Units  
- (64 LF)(9.2 Ft/LF) = 588.8 Sq. Ft.  
- 588.8 Sq. Ft. of Proposed ELA
- Existing System Sizes and Locations referenced from:**
  - Proposed Sanitary System Repairs, Prepared For Essex Elderly Housing, Essex, Connecticut, Scale: 1"=20', Dated: 9-11-95, Sheet 1 of 2, Final As Built Received on May 12, 1997, Prepared by Doane Engineering Company

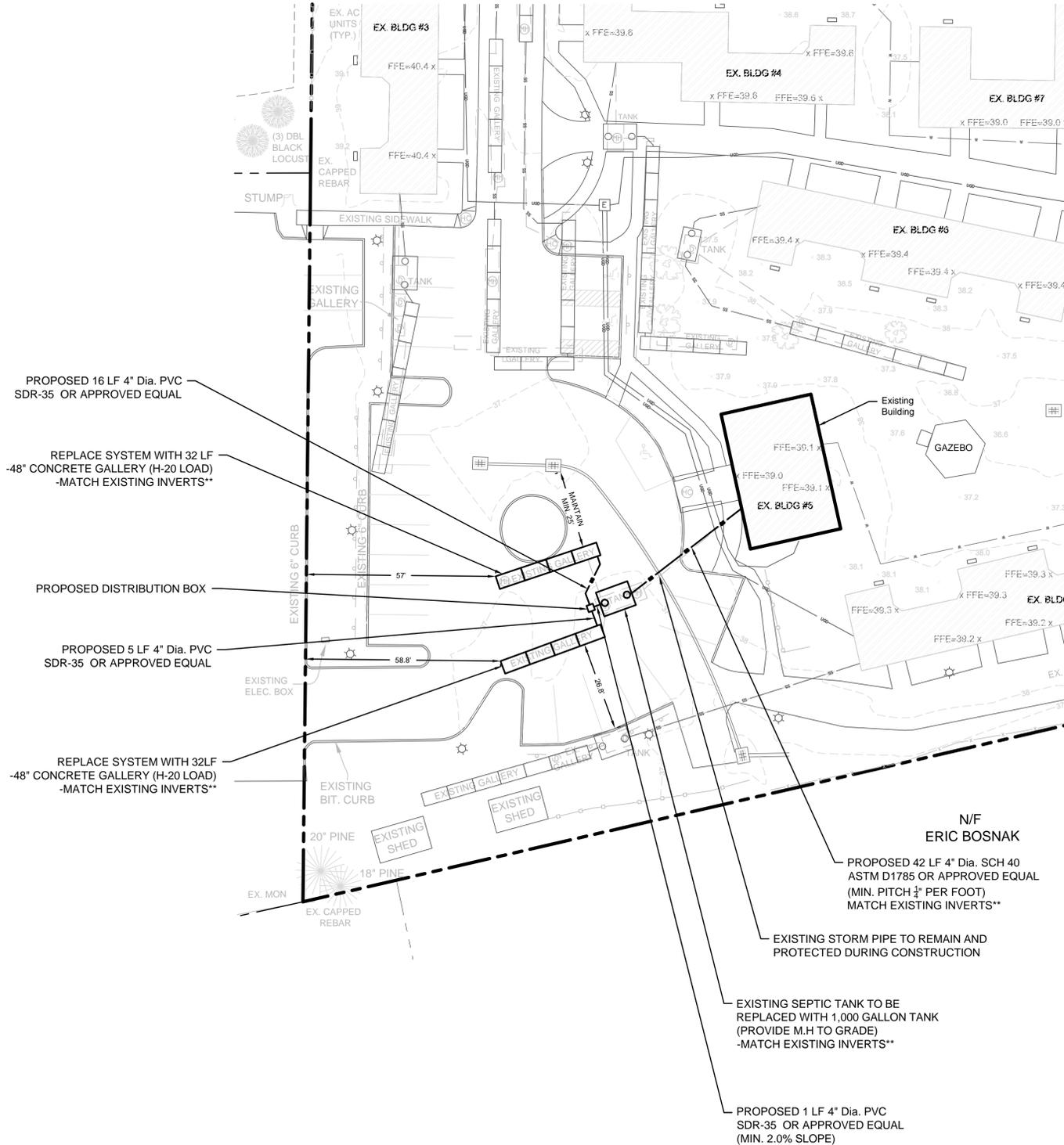
**\*\* System Inverts**  
- Contractor to Match Existing Building Inverts. Contractor to Attempt to Hold Existing Elevations of Septic Tank and Gallery Inverts, however, Proper Pitch and Slope of Pipe as well as Required Depth Below Finished Grade for H-20 Structures are to Take Precedence.



Know what's below.  
Call before you dig.

**LEGEND**

|  |                              |  |                                |  |                             |
|--|------------------------------|--|--------------------------------|--|-----------------------------|
|  | = Existing utility pole      |  | = Proposed curbing             |  | = Existing contour          |
|  | = Existing light pole        |  | = Existing well                |  | = Existing spot elevation   |
|  | = Existing fire hydrant      |  | = Existing catch basin/drywell |  | = Proposed contour          |
|  | = Existing water valve       |  | = Existing drainage manhole    |  | = Proposed spot elevation   |
|  | = Existing underground pipe  |  | = Existing sanitary manhole    |  | = Deep test location        |
|  | = Existing treeline          |  | = Existing utility box         |  | = Percolation test location |
|  | = Existing Property Boundary |  | = Existing sidewalk ramp       |  | = Grade to drain            |
|  | = Existing Easement          |  | = Existing Concrete Gallery    |  | = Proposed Sawcut Limit     |
|  | = Existing Sanitary Pipe     |  | = Proposed Concrete Gallery    |  |                             |
|  | = Proposed Sanitary Pipe     |  |                                |  |                             |



PROPOSED 16 LF 4" Dia. PVC SDR-35 OR APPROVED EQUAL

REPLACE SYSTEM WITH 32 LF -48" CONCRETE GALLERY (H-20 LOAD) -MATCH EXISTING INVERTS\*\*

PROPOSED DISTRIBUTION BOX

PROPOSED 5 LF 4" Dia. PVC SDR-35 OR APPROVED EQUAL

REPLACE SYSTEM WITH 32LF -48" CONCRETE GALLERY (H-20 LOAD) -MATCH EXISTING INVERTS\*\*

N/F ERIC BOSNAK

PROPOSED 42 LF 4" Dia. SCH 40 ASTM D1785 OR APPROVED EQUAL (MIN. PITCH 1/4" PER FOOT) MATCH EXISTING INVERTS\*\*

EXISTING STORM PIPE TO REMAIN AND PROTECTED DURING CONSTRUCTION

EXISTING SEPTIC TANK TO BE REPLACED WITH 1,000 GALLON TANK (PROVIDE M.H TO GRADE) -MATCH EXISTING INVERTS\*\*

PROPOSED 1 LF 4" Dia. PVC SDR-35 OR APPROVED EQUAL (MIN. 2.0% SLOPE)



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engineering, surveying, planning.

876 South Main Street  
P.O. Box 44  
Plantsville, CT 06479 - 0044

Tel: (860) 628-4484  
Fax: (860) 620-0196  
www.hccole.com

**PROJECT NAME:**  
Proposed Subsurface Sewage Disposal System Replacement for **Essex Court**  
16 Main Street  
Centerbrook, CT 06409

**PREPARED FOR:**  
Essex Housing Authority

Sheet Description:  
**BUILDING #5 - Subsurface Sewage Disposal System Replacement Plan**

Scale: 1"=20'

Date: November 09, 2015

Project #: 1069A F.B. #: ---

Drawn By: MSL Approved By: TPA

Revisions:

| Date: | Descriptions: |
|-------|---------------|
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Sheet #:  
**SSDS-5**

Thomas P. Arcari, Sr. P.E. Reg. No. #8016  
NOT VALID UNLESS EMBOSSED SEAL OR STAMP IS AFFIXED HERETO



DRAWING NAME: P:\Land Projects\1000s\DeVore Management Corp - Essex Court 10 Main St, Centerbrook, CT 06479\1000-SSDS-7.dwg LAYOUT: SSDS-7.dwg DATE: 11/11/15 10:35 AM

**SUBSURFACE SEWAGE DISPOSAL NOTES:**

- Bench Mark to be set in proximity of septic system area by surveyor prior to the start of construction.
- Private sewer and public water service proposed.
- System to be serial distribution with reversed distribution boxes.
- Topsoil is to be removed and subsoil scarified before constructing trenches.
- Affected areas shall receive 4" of topsoil, fertilize as required and use lawn type grass seed mixture.
- Buried oil tanks are prohibited.
- Soil distribution pipe beyond tank must be 4" PVC SDR-35.
- No bath facilities over 100 gallon capacity or garbage grinders are proposed.
- Percolation tests must be performed in any in-place select quality fill material and tests must be equal to or better than design rate.
- No existing septic systems were found on adjacent property within 75 feet of proposed well. No existing wells were found on adjacent property within 75 feet of proposed septic system.
- Any quality septic fill must meet requirements of local Health Department.
- 90% soil compaction required on any filled septic systems.
- "Select Fill Material" and "Select Backfill Material", placed within and adjacent to proposed leaching areas shall be comprised of clean sand and gravel, free from organic matter and foreign substances. The fill material shall meet the following requirements unless otherwise approved by a professional engineer for use within the leaching area.
  - The fill shall not contain any material larger than three (3) inches.
  - Up to 45% retained on the #4 sieve (This is the gravel portion of the sample.)
  - The material that passes the #4 sieve is then reweighed and the sieve analysis started.
  - The remaining sample shall meet the following gradation criteria:

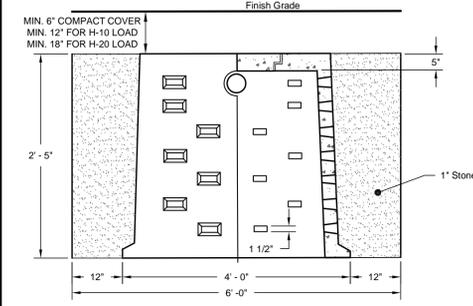
| Sieve Size | Wet Sieve                | Dry Sieve |
|------------|--------------------------|-----------|
| #4         | 100%                     | 100%      |
| #10        | 70%-100%                 | 70%-100%  |
| #40        | 10%-50% (See Note Below) | 10%-75%   |
| #100       | 0%-20%                   | 0%-5%     |
| #200       | 0%-5%                    | 0%-2.5%   |

Note: Percent Passing the #40 sieve can be increased to no greater than 75% if the percent passing the #100 sieve does not exceed 10% and the #200 sieve does not exceed 5%. The responsibility for the preparation of a leaching area utilizing "select material" is that of the licensed installer. The installer shall take the necessary steps to protect the underlying naturally occurring soils from over compaction and siltation once exposed.

**INSTALLER NOTES:**

- Prior to construction, the contractor and/or owner shall obtain a "Permit To Install Subsurface Sewage Disposal System" from the Sanitarian's Office.
- Proposed construction shall conform to the "State Of Connecticut Public Health Code, as amended to date."
- Installer to verify that no existing septic systems on adjacent property fall within 75 feet of this proposed well and no existing wells on adjacent property fall within 75 feet of this proposed septic system.
- No construction activity or stumping shall take place within the primary and reserve areas prior to the subsurface sewage disposal system installation.
- If field conditions (ledge, groundwater, mottling) are encountered at shallower depths than shown in the deep est hole results, the Sanitarian and Design Engineer shall be contacted immediately and construction halted until directed further.
- The Design Engineer and/or Sanitarian shall be contacted prior to back-filling the Subsurface Sewage Disposal System, to take the necessary measurements for the preparation of a "as-built" drawing of the Subsurface Sewage Disposal System construction. A copy of the "As-Built" drawing must be submitted to the local Health Department and design engineer for review and final approval of the Subsurface Sewage Disposal System.
- No deviations from the approved design plan shall be allowed without the prior approval of the local Health Department and Design Engineer.
- The Town Sanitarian shall be notified after the following (as applicable) for inspection:
  - Topsoil removal and subsoil scarification.
  - Placement of fill material.
  - Installation of Subsurface Sewage Disposal System.

**PROPOSED LEACHING STRUCTURE DETAIL:**



**48" CONCRETE GALLERY DETAIL**  
N.T.S.

**DESIGN CRITERIA:**

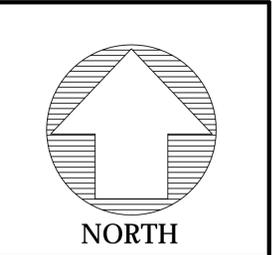
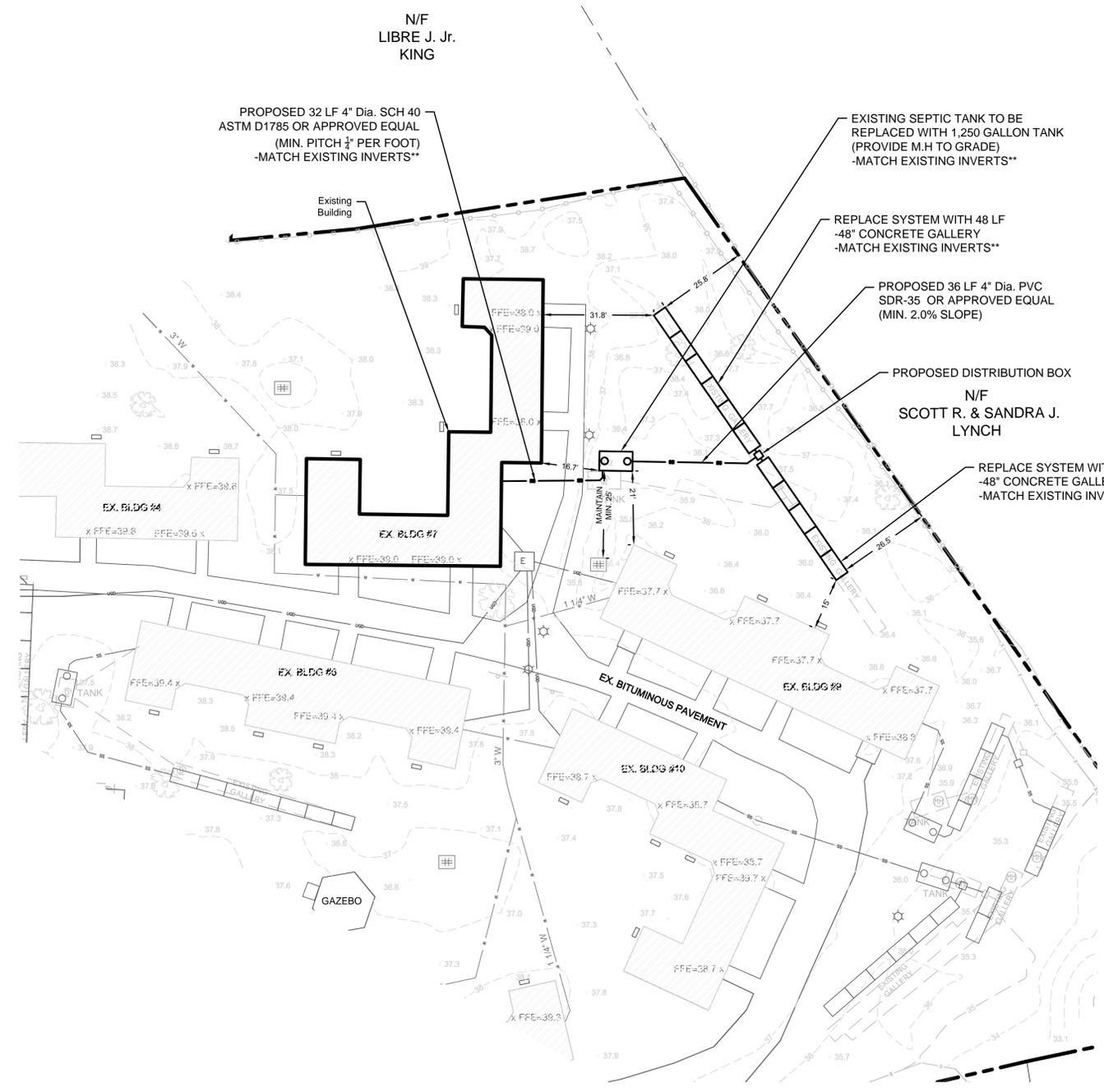
- Existing Building** - 4 single Bedroom Apartments
- Required Septic Tank Capacity:** 1,250 Gal.
- Existing Subsurface Sewage Disposal System:**
  - 4' High by 4' Wide Galleries
  - Gallery Sections in Lengths of 40 LF, 48 LF, (Total 88 LF)
- Proposed Replacement Area:**
  - 88 LF of 48" Concrete Gallery Units
  - (88 LF)(9.2 Ft/LF) = 809.6 Sq. Ft.
  - 809.6 Sq. Ft. of Proposed ELA
- Existing System Sizes and Locations referenced from:**
  - Proposed Sanitary System Repairs, Prepared For Essex Ederly Housing, Essex, Connecticut, Scale: 1"=20', Dated: 9-11-95, Sheet 1 of 2, Final As Built Received on May 12, 1997, Prepared by Doane Engineering Company

**\*\* System Inverts**  
- Contractor to Match Existing Building Inverts. Contractor to Attempt to Hold Existing Elevations of Septic Tank and Gallery Inverts, however, Proper Pitch and Slope of Pipe as well as Required Depth Below Finished Grade for H-20 Structures are to Take Precedence.



**LEGEND**

|  |                              |  |                                |  |                             |
|--|------------------------------|--|--------------------------------|--|-----------------------------|
|  | = Existing utility pole      |  | = Existing edge of pavement    |  | = Existing contour          |
|  | = Existing light pole        |  | = Proposed curbing             |  | = Existing spot elevation   |
|  | = Existing fire hydrant      |  | = Existing well                |  | = Proposed contour          |
|  | = Existing water valve       |  | = Existing catch basin/drywell |  | = Proposed spot elevation   |
|  | = Existing underground pipe  |  | = Existing drainage manhole    |  | = Deep test location        |
|  | = Existing treeline          |  | = Existing sanitary manhole    |  | = Percolation test location |
|  | = Existing Property Boundary |  | = Existing utility box         |  | = Grade to drain            |
|  | = Existing Easement          |  | = Existing sidewalk ramp       |  | = Proposed Sawcut Limit     |
|  | = Existing Sanitary Pipe     |  | = Existing Concrete Gallery    |  |                             |
|  | = Proposed Sanitary Pipe     |  | = Proposed Concrete Gallery    |  |                             |



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www.hccole.com

**PROJECT NAME:**  
Proposed Subsurface Sewage Disposal System Replacement for **Essex Court**  
16 Main Street  
Centerbrook, CT 06409

**PREPARED FOR:**  
Essex Housing Authority

Sheet Description:  
**BUILDING #7 - Subsurface Sewage Disposal System Replacement Plan**

Scale:  
20' 10' 0 10' 20'  
1"=20'

Date: November 09, 2015

Project #: 1069A F.B. #: ---

Drawn By: MSL Approved By: TPA

Revisions:

| Date: | Descriptions: |
|-------|---------------|
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Sheet #:  
**SSDS-7**

Thomas P. Arcari, Sr. P.E. Reg. No. #8016  
NOT VALID UNLESS EMBOSSED SEAL OR STAMP IS AFFIXED HERETO

DRAWING NAME: P - Land Projects 1000s - Division Management Corp. - Date: 09/10/15 - 10:30 AM - 09/10/15 - 10:30 AM

**SUBSURFACE SEWAGE DISPOSAL NOTES:**

- Bench Mark to be set in proximity of septic system area by surveyor prior to the start of construction.
- Private sewer and public water service proposed.
- System to be serial distribution with reversed distribution boxes.
- Topsoil is to be removed and subsoil scarified before constructing trenches.
- Affected areas shall receive 4" of topsoil, fertilize as required and use lawn type grass seed mixture.
- Buried oil tanks are prohibited.
- Soil distribution pipe beyond tank must be 4" PVC SDR-35.
- No bath facilities over 100 gallon capacity or garbage grinders are proposed.
- Percolation tests must be performed in any in-place select quality fill material and tests must be equal to or better than design rate.
- No existing septic systems were found on adjacent property within 75 feet of proposed well. No existing wells were found on adjacent property within 75 feet of proposed septic system.
- Any quality septic fill must meet requirements of local Health Department.
- 90% soil compaction required on any filled septic systems.
- "Select Fill Material" and "Select Backfill Material", placed within and adjacent to proposed leaching areas shall be comprised of clean sand and gravel, free from organic matter and foreign substances. The fill material shall meet the following requirements unless otherwise approved by a professional engineer for use within the leaching area.
  - The fill shall not contain any material larger than three (3) inches.
  - Up to 45% retained on the #4 sieve (This is the gravel portion of the sample.)
  - The material that passes the #4 sieve is then reweighed and the sieve analysis started.
  - The remaining sample shall meet the following gradation criteria:

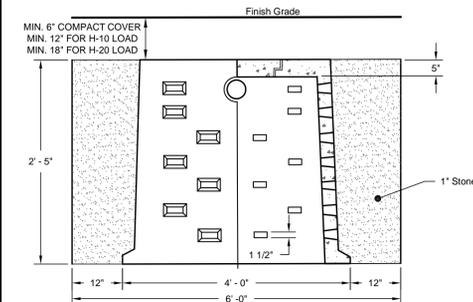
| Sieve Size | Wet Sieve                | Dry Sieve |
|------------|--------------------------|-----------|
| #4         | 100%                     | 100%      |
| #10        | 70%-100%                 | 70%-100%  |
| #40        | 10%-50% (See Note Below) | 10%-75%   |
| #100       | 0%-20%                   | 0%-5%     |
| #200       | 0%-5%                    | 0%-2.5%   |

**Note:** Percent Passing the #40 sieve can be increased to no greater than 75% if the percent passing the #100 sieve does not exceed 10% and the #200 sieve does not exceed 5%. The responsibility for the preparation of a leaching area utilizing "select material" is that of the licensed installer. The installer shall take the necessary steps to protect the underlying naturally occurring soils from over compaction and siltation once exposed.

**INSTALLER NOTES:**

- Prior to construction, the contractor and/or owner shall obtain a "Permit To Install Subsurface Sewage Disposal System" from the Sanitarian's Office.
- Proposed construction shall conform to the "State Of Connecticut Public Health Code, as amended to date.
- Installer to verify that no existing septic systems on adjacent property fall within 75 feet of this proposed well and no existing wells on adjacent property fall within 75 feet of this proposed septic system.
- No construction activity or stumping shall take place within the primary and reserve areas prior to the subsurface sewage disposal system installation.
- If field conditions (ledge, groundwater, mottling) are encountered at shallower depths than shown in the deep est hole results, the Sanitarian and Design Engineer shall be contacted immediately and construction halted until directed further.
- The Design Engineer and/or Sanitarian shall be contacted prior to back-filling the Subsurface Sewage Disposal System, to take the necessary measurements for the preparation of a "as-built" drawing of the Subsurface Sewage Disposal System construction. A copy of the "As-Built" drawing must be submitted to the local Health Department and design engineer for review and final approval of the Subsurface Sewage Disposal System.
- No deviations from the approved design plan shall be allowed without the prior approval of the local Health Department and Design Engineer.
- The Town Sanitarian shall be notified after the following (as applicable) for inspection:
  - Topsoil removal and subsoil scarification.
  - Placement of fill material.
  - Installation of Subsurface Sewage Disposal System.

**PROPOSED LEACHING STRUCTURE DETAIL:**



**48" CONCRETE GALLERY DETAIL**  
N.T.S.

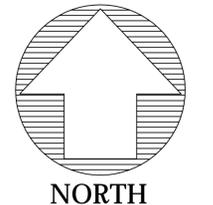
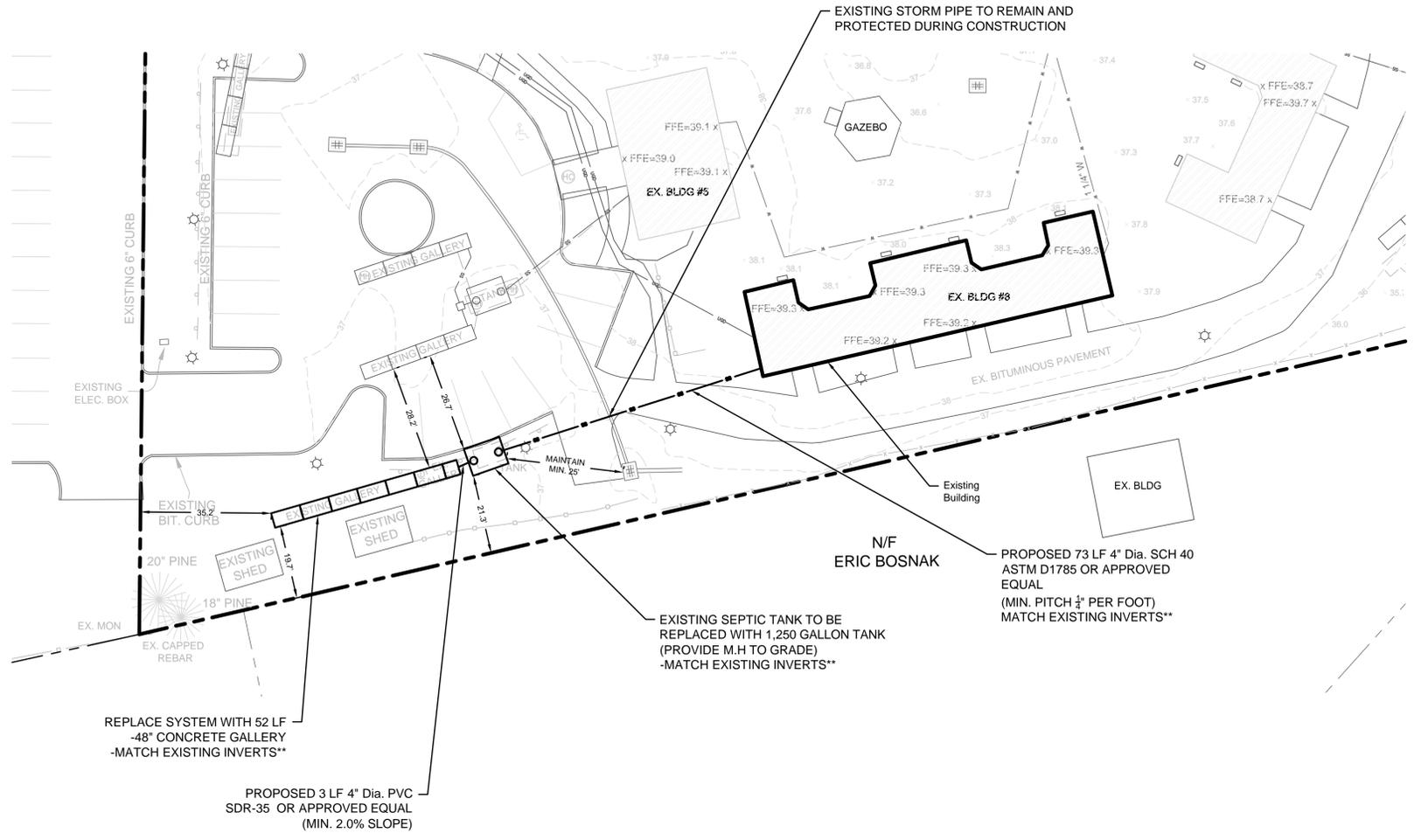
**DESIGN CRITERIA:**

- Existing Building** - 4 single Bedroom Apartments
- Required Septic Tank Capacity:** 1,250 Gal.
- Existing Subsurface Sewage Disposal System:**
  - 4' High by 4' Wide Galleries
  - Gallery Sections in Lengths of 52 LF, (Total 52 LF)
- Proposed Replacement Area:**
  - 52 LF of 48" Concrete Gallery Units
  - (52 LF)(9.2 Ft/LF) = 478.4 Sq. Ft.
  - 478.4 Sq. Ft. of Proposed ELA
- Existing System Sizes and Locations referenced from:**
  - Proposed Sanitary System Repairs, Prepared For Essex Ederly Housing, Essex, Connecticut, Scale: 1"=20', Dated: 9-11-95, Sheet 1 of 2, Final As Built Received on May 12, 1997, Prepared by Doane Engineering Company

**\*\* System Inverts**  
- Contractor to Match Existing Building Inverts. Contractor to Attempt to Hold Existing Elevations of Septic Tank and Gallery Inverts, however, Proper Pitch and Slope of Pipe as well as Required Depth Below Finished Grade for H-20 Structures are to Take Precedence.



| LEGEND |                              |  |                                |
|--------|------------------------------|--|--------------------------------|
|        | = Existing utility pole      |  | = Existing edge of pavement    |
|        | = Existing light pole        |  | = Proposed curbing             |
|        | = Existing fire hydrant      |  | = Existing well                |
|        | = Existing water valve       |  | = Existing catch basin/drywell |
|        | = Existing underground pipe  |  | = Existing drainage manhole    |
|        | = Existing treeline          |  | = Existing sanitary manhole    |
|        | = Existing Property Boundary |  | = Existing utility box         |
|        | = Existing Easement          |  | = Existing sidewalk ramp       |
|        | = Existing Sanitary Pipe     |  | = Existing Concrete Gallery    |
|        | = Proposed Sanitary Pipe     |  | = Proposed Concrete Gallery    |
|        | = Existing contour           |  | = Existing spot elevation      |
|        | = Proposed contour           |  | = Proposed spot elevation      |
|        | = Deep test location         |  | = Percolation test location    |
|        | = Grade to drain             |  | = Proposed Sawcut Limit        |



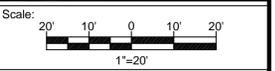
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876 South Main Street Tel: (860) 628-4484  
P.O. Box 44 Fax: (860) 620-0196  
Plantsville, CT 06479 - 0044 www.hccole.com

**PROJECT NAME:**  
Proposed Subsurface Sewage Disposal System Replacement for **Essex Court**  
16 Main Street  
Centerbrook, CT 06409

**PREPARED FOR:**  
Essex Housing Authority

Sheet Description:  
**BUILDING #8 -**  
Subsurface Sewage Disposal System Replacement Plan



Date: November 09, 2015

Project #: 1069A F.B. #: ---

Drawn By: MSL Approved By: TPA

Revisions:

| Date: | Descriptions: |
|-------|---------------|
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Sheet #:  
**SSDS-8**

Thomas P. Arcari, Sr. P.E. Reg. No. #8016  
NOT VALID UNLESS EMBOSSED SEAL OR STAMP IS AFFIXED HERETO

DRAWING NAME: P. Land Projects 1000s-Delaware Management Corp. - Box C-10 Main St. Cromwell, CT 06460  
 LAYOUT: SSDS-9  
 DATE: 11/11/15  
 SCALE: 1"=20'

**SUBSURFACE SEWAGE DISPOSAL NOTES:**

- Bench Mark to be set in proximity of septic system area by surveyor prior to the start of construction.
- Private sewer and public water service proposed.
- System to be serial distribution with reversed distribution boxes.
- Topsoil is to be removed and subsoil scarified before constructing trenches.
- Affected areas shall receive 4" of topsoil, fertilize as required and use lawn type grass seed mixture.
- Buried oil tanks are prohibited.
- Soil distribution pipe beyond tank must be 4" PVC SDR-35.
- No bath facilities over 100 gallon capacity or garbage grinders are proposed.
- Percolation tests must be performed in any in-place select quality fill material and tests must be equal to or better than design rate.
- No existing septic systems were found on adjacent property within 75 feet of proposed well. No existing wells were found on adjacent property within 75 feet of proposed septic system.
- Any quality septic fill must meet requirements of local Health Department.
- 90% soil compaction required on any filled septic systems.
- "Select Fill Material" and "Select Backfill Material", placed within and adjacent to proposed leaching areas shall be comprised of clean sand and gravel, free from organic matter and foreign substances. The fill material shall meet the following requirements unless otherwise approved by a professional engineer for use within the leaching area:
  - The fill shall not contain any material larger than three (3) inches.
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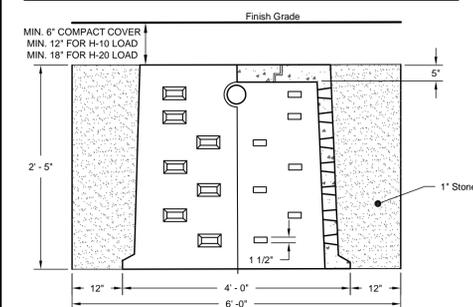
| Sieve Size | Wet Sieve                | Dry Sieve |
|------------|--------------------------|-----------|
| #4         | 100%                     | 100%      |
| #10        | 70%-100%                 | 70%-100%  |
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Note: Percent Passing the #40 sieve can be increased to no greater than 75% if the percent passing the #100 sieve does not exceed 10% and the #200 sieve does not exceed 5%. The responsibility for the preparation of a leaching area utilizing "select material" is that of the licensed installer. The installer shall take the necessary steps to protect the underlying naturally occurring soils from over compaction and siltation once exposed.

**INSTALLER NOTES:**

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- Proposed construction shall conform to the "State Of Connecticut Public Health Code, as amended to date.
- Installer to verify that no existing septic systems on adjacent property fall within 75 feet of this proposed well and no existing wells on adjacent property fall within 75 feet of this proposed septic system.
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- The Design Engineer and/or Sanitarian shall be contacted prior to back-filling the Subsurface Sewage Disposal System, to take the necessary measurements for the preparation of a "as-built" drawing of the Subsurface Sewage Disposal System construction. A copy of the "As-Built" drawing must be submitted to the local Health Department and design engineer for review and final approval of the Subsurface Sewage Disposal System.
- No deviations from the approved design plan shall be allowed without the prior approval of the local Health Department and Design Engineer.
- The Town Sanitarian shall be notified after the following (as applicable) for inspection:
  - Topsoil removal and subsoil scarification.
  - Placement of fill material.
  - Installation of Subsurface Sewage Disposal System.

**PROPOSED LEACHING STRUCTURE DETAIL:**



**48" CONCRETE GALLERY DETAIL**  
N.T.S.

**DESIGN CRITERIA:**

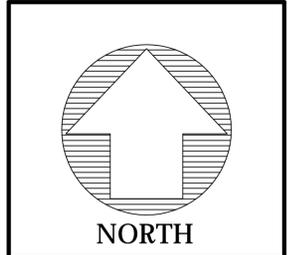
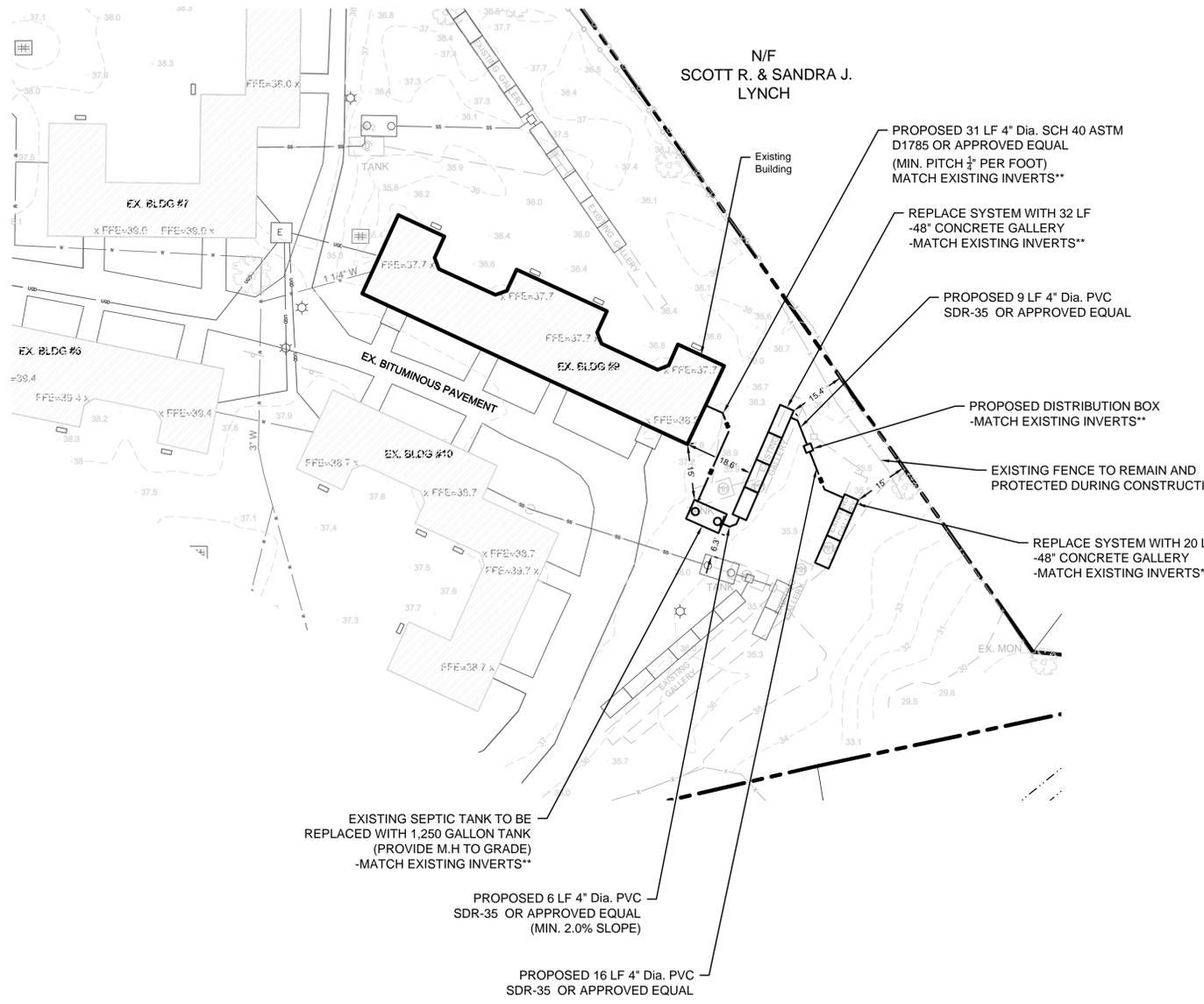
- Existing Building - 4 single Bedroom Apartments
- Required Septic Tank Capacity: 1,250 Gal.
- Existing Subsurface Sewage Disposal System:
  - 4' High by 4' Wide Galleries
  - Gallery Sections in Lengths of 32 LF, 20 LF, (Total 52 LF)
- Proposed Replacement Area:
  - 52 LF of 48" Concrete Gallery Units
  - (52 LF)(9.2 Ft/LF) = 478.4 Sq. Ft.
  - 478.4 Sq. Ft. of Proposed ELA
- Existing System Sizes and Locations referenced from:
  - Proposed Sanitary System Repairs, Prepared For Essex Ederly Housing, Essex, Connecticut, Scale: 1"=20', Dated: 9-11-95, Sheet 1 of 2, Final As Built Received on May 12, 1997, Prepared by Doane Engineering Company

**\*\* System Inverts**  
 - Contractor to Match Existing Building Inverts. Contractor to Attempt to Hold Existing Elevations of Septic Tank and Gallery Inverts, however, Proper Pitch and Slope of Pipe as well as Required Depth Below Finished Grade for H-20 Structures are to Take Precedence.



Know what's below.  
Call before you dig.

| LEGEND |                              |  |                                |
|--------|------------------------------|--|--------------------------------|
|        | = Existing utility pole      |  | = Existing edge of pavement    |
|        | = Existing light pole        |  | = Proposed curbing             |
|        | = Existing fire hydrant      |  | = Existing well                |
|        | = Existing water valve       |  | = Existing catch basin/drywell |
|        | = Existing underground pipe  |  | = Existing drainage manhole    |
|        | = Existing treeline          |  | = Existing sanitary manhole    |
|        | = Existing Property Boundary |  | = Existing utility box         |
|        | = Existing Easement          |  | = Existing sidewalk ramp       |
|        | = Existing Sanitary Pipe     |  | = Existing Concrete Gallery    |
|        | = Proposed Sanitary Pipe     |  | = Proposed Concrete Gallery    |
|        | = Existing contour           |  | = Proposed Sawcut Limit        |
|        | = Existing spot elevation    |  |                                |
|        | = Proposed contour           |  |                                |
|        | = Proposed spot elevation    |  |                                |
|        | = Deep test location         |  |                                |
|        | = Percolation test location  |  |                                |
|        | = Grade to drain             |  |                                |



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 engineering, surveying, planning.

876 South Main Street Tel: (860) 628-4484  
 P.O. Box 44 Fax: (860) 620-0196  
 Plantsville, CT 06479 - 0044 www.hccole.com

PROJECT NAME:  
**Proposed Subsurface Sewage Disposal System Replacement for Essex Court**  
 16 Main Street  
 Centerbrook, CT 06409

PREPARED FOR:  
**Essex Housing Authority**

Sheet Description:  
**BUILDING #9 - Subsurface Sewage Disposal System Replacement Plan**

Scale:

|              |                   |
|--------------|-------------------|
| Date:        | November 09, 2015 |
| Project #:   | 1069A             |
| F.B. #:      | ---               |
| Drawn By:    | MSL               |
| Approved By: | TPA               |
| Revisions:   |                   |
| Date:        | Descriptions:     |
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Sheet #:  
**SSDS-9**

Thomas P. Arcari, Sr. P.E. #8016  
 Reg. No.  
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**SOIL EROSION AND SEDIMENT CONTROL NARRATIVE:**

**A. PROJECT INFORMATION**

1. Project Description - The project site consist of one 3.0 acres on Main Street, Centerbrook, CT.
2. Area Proposed Disturbance Due to Construction Activities - 0.75 ± Acres.
3. Phases of Development - Phase 1 & 2  
Phase 1 - Site work and building  
Phase 2 - Building additions as shown
4. Estimated Start of Construction - Summer 2015.
5. Estimated Construction Completion Date - Summer 2016.

**B. SEQUENCE OF CONSTRUCTION**

The tentative sequence of construction events are as follows and activities noted by a "(Capital Letter)" may occur concurrently.

1. Conduct a pre-construction meeting with the OWNER, Contractor, Consultant Team, and Local, County and State agencies having jurisdiction over the project.
2. Field stakeout the limits of all activities and install, at a minimum, a snow fence along construction limit lines along environmentally sensitive and tree protection areas. Silt fencing may be substituted where it coincides with this line, but only as approved by the OWNER. (A)
3. Install silt fence along all sides contiguous to wetlands, watercourses and property owned by others affected by the work. Refer to the Soil Erosion and Sedimentation Control Plan for locations. (A)
4. After each rain storm monitor the sedimentation and erosion control structures, which may include riprap channels, sediment basins, plunge pools, etc. Routinely remove sediment during construction when controls exceed one half (1/2) their capacity, sediment shall be disposed of in an environmentally acceptable manner at an approved location. (A)
5. Clear vegetation within project limits, except trees designated to remain or in question, as shown on the plans. The decision of how questionable trees are to be treated shall rest with the OWNER and coordinated through the local agency having jurisdiction as construction progresses. All trees and shrubs less than 6" in diameter, and not to remain, shall be chipped and stored on site for mulch. (A)
6. Remove stumps and dispose of at a bulky waste site approved by the ENGINEER and local official having jurisdiction. Disposal of stumps within burial pits on-site shall be prohibited. (B)
7. Construct all temporary sedimentation and erosion control structures, including but not limited to: silt fence, stone check dams and water breaks. All structures and their locations shall be approved by the ENGINEER or the Inland Wetlands Enforcement Officer. Prior to the next phase of construction. (B)
8. Strip topsoil and subsoil materials as required and stockpile them at locations that will not adversely impact any down gradient wetlands. Stockpiles may be relocated to meet job conditions but are subject to the ENGINEER'S approval. Provide temporary erosion controls on the downside slopes of all stockpiles. (B)
9. Provide temporary seeding measures on all exposed soil which were damaged due to construction activities, are outside of construction traffic zones, and are not to be permanently restored or for a period in excess of thirty (30) days. Seeding and seedbed preparation are as specified herein or as indicated on the landscape plan. (C)
10. Excavate for and install utilities. (C)
11. Building construction may begin pending building permit and run concurrently with the remaining site activities. (C)
12. Complete final subgrading for all grassed and landscaped areas. Prepare subgrades for placing a minimum of six inches of topsoil. Place topsoil only when permanent seeding and landscaping can follow within a reasonable time frame. (E)
13. Clean and remove all silt from within drainage structures and dispose of materials in an environmentally acceptable manner. (F)
14. Remove temporary measures once permanent measures have matured as approved by the Municipality's enforcement officer. (F)
15. Conduct final inspection with Municipality to identify deficiencies and establish punch list based on approved plans; complete to the satisfaction of the Municipality.
16. Construction Staging:
  - a. Stage # 1 - Construct temporary sedimentation control measures.
  - b. Stage #2 - Install subsurface sewage disposal systems.
  - c. Stage #3 - Complete finish grade site and loam and seed all disturbed areas.

**C. RESPONSIBILITY**

1. The responsibility for implementing and maintaining the Soil Erosion and Sedimentation Control Plan rests with the OWNER OF RECORD where any development of the parcel gives cause to erosion and sedimentation. It is also to be said that the OWNER OF RECORD shall be held responsible for informing all concerned regarding responsibility of the SE&SC plan and seeing that the plan becomes a part of the deed in the event the title of the property is transferred. The costs of all drainage erosion and sedimentation control measures will therefore rest with the OWNER OF RECORD.

**EROSION & SEDIMENTATION CONTROL NOTES:**

1. Land disturbance will be kept to a minimum; reestablishment will be scheduled as soon as practicable.
2. Graded areas are to be loamed and seeded as soon as possible after construction work is completed.
3. All other areas affected by construction and not to be filled are to be restored to original grade and seeded.
4. For specific details and the application of erosion and sedimentation control refer to "2002 Connecticut Guidelines For Soil Erosion and Sedimentation Control" dated May 2002, as amended to date.
5. Fabric Sedimentation Barrier to be Fibretex 150 Grade, as manufactured by Crown Zellerbach, or approved equal, or staked haybales.
6. Sedimentation barrier to be installed as shown on this plan prior to any construction.
7. All control measures will be maintained in effective condition throughout the construction period.
8. Additional control measures shall be installed during the construction period, if necessary or required.
9. Sediment removed from control structures shall be disposed of in a manner which is consistent with the intent of the plan.
10. Property Owner and contractor are assigned the responsibility for implementing this Erosion and Sediment Control Plan. This responsibility includes the installation and maintenance of control measures, informing all parties engaged on the construction site of the requirements and objectives of the plan, notifying the Planning and Zoning office of any transfer of this responsibility, and for conveying a copy of the Erosion and Sediment Control Plan if the title to the land is transferred.
11. Contractor is responsible for correcting any unforeseen field conditions.
12. All construction to conform to applicable town standards.
13. The developer is responsible for notifying the Planning and Engineering Departments at least 24 hours prior to the start of any construction activity.

**GENERAL NOTES:**

1. Additional notes and details are located on Sheet ES2.
2. At all times during construction, the Developer/Contractor shall be responsible for preventing and controlling on-site erosion including keeping the property sufficiently watered so as to minimize wind blown sediment. The Developer/Contractor shall also be responsible for installing and maintaining all erosion control facilities shown herein.
3. All soils exposed during land disturbing activity (stripping, grading, utility installations, stockpiling, filling, etc.) shall be kept in a roughened condition by ripping or diskking along land contours until mulch, vegetation, or other permanent erosion control BMPs are installed. No soils in areas outside project street rights-of-way and future pavement shall remain exposed by land disturbing activity for more than thirty (30) days before required temporary or permanent erosion control (e.g. watering, seed/mulch, landscaping, etc.) is installed, unless otherwise approved by the Town Engineer.
4. All inlets shall be cleaned prior to occupancy.
5. All slopes greater than 3:1 shall be protected with Erosion Control Blankets (S150 by North American Green or approved equal)
6. All erosion control measures shall remain intact and operational until the site has been stabilized and vegetation is thoroughly established. This may occur after completion of construction, therefore it is critical for the Developer, Contractor and/or Owner to understand the erosion control responsibilities and maintain the erosion control measures.
7. To minimize erosion of the sandy soils, vegetation shall be established immediately following completion of grading within each area. Vegetation may consist of temporary seeding or final loam and seed.
8. If areas of work are not addressed by this plan or sediment and erosion issues arise in areas not covered by this plan, then the plan shall be augmented in the field. Contractor shall be responsible to insure no sediment or erosion problems encroach upon adjoining property. This may require additional barriers, swales and bales.
9. All erosion and sediment control measures shall conform to the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control manual.

**STORMWATER MANAGEMENT MAINTENANCE SCHEDULE CENTERBROOK, CONNECTICUT**

The following are the required maintenance and monitoring procedures.

- Catch Basins** - All basin rim areas and sumps shall be cleaned of all sediment, trash and debris. These procedures to be conducted yearly anytime after May 1 and before September 15.
- Swales** - all swales be cleared of all sediment deposits, invasive plant species and debris. Any erosion shall be repaired. These procedures to be conducted annually. Swales shall be inspected two times a year and after significant rainfall events. Additional maintenance, beyond schedule maintenance, may be required based upon inspections.
- Slopes** - Slope erosion control blankets and vegetation shall be inspected twice a year and after significant rainfall events. Additional maintenance, beyond schedule maintenance, may be required based upon inspections.
- Parking Lot Sweeping** - Use mechanical sweeping on paved areas where dust and fine materials accumulate. These procedures to be conducted yearly anytime after May 1 and September 15. All sediment deposits, trash and debris shall be removed to a location off-site and disposed of in an environmentally acceptable manner.

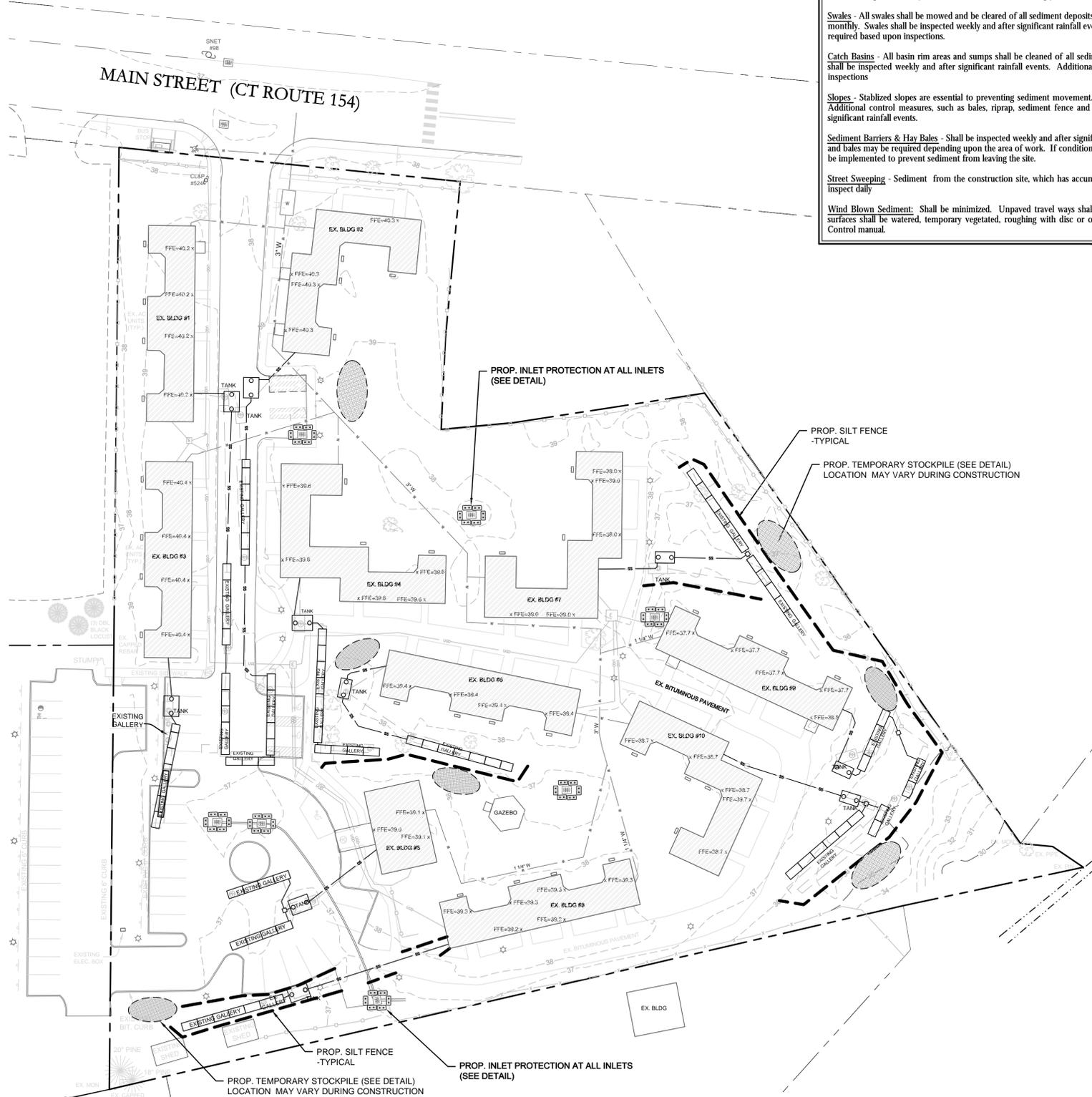
**EROSION CONTROL SYMBOL LEGEND**

- x — x — ORANGE LIMIT OF CONSTRUCTION FENCE
- — — — — SILT FENCE
- — — — — EROSION CONTROL LOGI/WATTLE
- ⊕ INLET PROTECTION
- ⊕ STAKED BALES
- ⊕ CHECK DAM WATTLE/STOCK OR STONE
- ⊕ EROSION CONTROL BLANKET
- ← TEMPORARY WATER BAR (WB) OR DIVERSION CHANNEL (TD)

\*SYMBOLS DEPICTED IN LEGEND AND PLAN ARE NOT DRAWN TO SCALE. SEE DETAILS FOR SPECIFIC INFORMATION

**LEGEND**

- — — — — 000 — — — — — = Existing contour
- — — — — x000.0 — — — — — = Existing spot elevation
- — — — — 0000 — — — — — = Proposed contour
- ⊕ TP ⊕ = Proposed spot elevation
- ⊕ PT ⊕ = Deep test location
- ⊕ ⊕ = Percolation test location
- G.T.D. → = Grade to drain
- — — — — = Proposed Sawcut Limit
- — — — — = Existing utility pole
- — — — — = Existing light pole
- — — — — = Existing fire hydrant
- ⊕ ⊕ = Existing water valve
- — — — — = Existing underground pipe
- — — — — = Existing treeline
- — — — — = Existing Property Boundary
- — — — — = Existing Easement
- — — — — = Existing Sanitary Pipe
- — — — — = Proposed Sanitary Pipe
- ⊕ ⊕ = Existing edge of pavement
- ⊕ ⊕ = Proposed curbing
- ⊕ ⊕ = Existing well
- ⊕ ⊕ = Existing catch basin/drywell
- ⊕ ⊕ = Existing drainage manhole
- ⊕ ⊕ = Existing sanitary manhole
- ⊕ ⊕ = Existing utility box
- ⊕ ⊕ = Existing sidewalk ramp
- ⊕ ⊕ = Existing Concrete Gallery
- ⊕ ⊕ = Proposed Concrete Gallery



**TEMPORARY STORMWATER MANAGEMENT MAINTENANCE SCHEDULE (DURING CONSTRUCTION)**

- The following are the required maintenance and monitoring procedures
- Swales** - All swales shall be mowed and be cleared of all sediment deposits, invasive plant species and debris. These procedures shall be conducted monthly. Swales shall be inspected weekly and after significant rainfall events. Additional maintenance, beyond scheduled maintenance, may be required based upon inspections.
- Catch Basins** - All basin rim areas and sumps shall be cleaned of all sediment, trash and debris. These procedures shall be conducted monthly. Basins shall be inspected weekly and after significant rainfall events. Additional maintenance, beyond scheduled maintenance, may be required based upon inspections.
- Slopes** - Stabilized slopes are essential to preventing sediment movement. Any channels of concentrated flow, such as rills, shall be fixed immediately. Additional control measures, such as bales, riprap, sediment fence and erosion fabric may be required. Slopes shall be inspected weekly and after significant rainfall events.
- Sediment Barriers & Hay Bales** - Shall be inspected weekly and after significant rainfall events. Repairs shall be made immediately. Additional barriers and bales may be required depending upon the area of work. If conditions exist which can not be addressed with this plan, then additional barriers shall be implemented to prevent sediment from leaving the site.
- Street Sweeping** - Sediment from the construction site, which has accumulated on the existing streets shall be cleaned up immediately. Contractor to inspect daily.
- Wind Blown Sediment** - Shall be minimized. Unpaved travel ways shall be sufficiently watered to minimize wind blown sediment. Other unpaved surfaces shall be watered, temporary vegetated, roughing with disc or other measures in the Connecticut Guidelines for Soil Erosion and Sediment Control manual.



**cole**  
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engineering, surveying, planning.

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**PROJECT NAME:**  
Proposed Subsurface Sewage Disposal System Replacement for **Essex Court**  
16 Main Street  
Centerbrook, CT 06409

**PREPARED FOR:**  
Essex Housing Authority

Sheet Description:  
**Soil Erosion & Sedimentation Control Plan**

Scale:  
30' 15' 0 15' 30'  
1"=30'

|              |                   |
|--------------|-------------------|
| Date:        | November 09, 2015 |
| Project #:   | 1069A             |
| F.B. #:      | ---               |
| Drawn By:    | MSL               |
| Approved By: | TPA               |
| Revisions:   |                   |
| Date:        | Descriptions:     |
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Sheet #:  
**ES1**

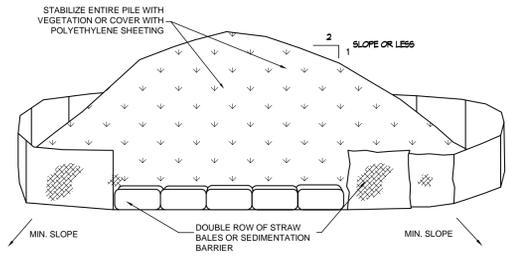
**811**  
Know what's below.  
Call before you dig.

*Thomas P. Arcari, Sr. P.E.*  
#8016  
Reg. No.  
NOT VALID UNLESS EMBOSSED SEAL OR STAMP IS AFFIXED HERETO

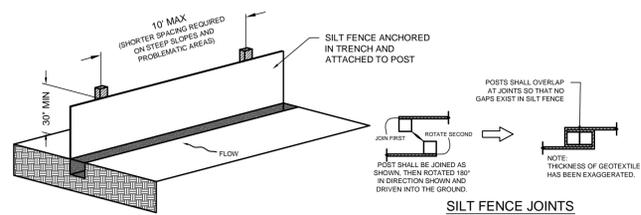
DRAWING NAME: P - Land Project 1069A, Decker Management Corp - Essex Court 16 Main St, Centerbrook, CT 06409, 06409 - 0044  
OPERATOR: hannah

DRAWING NAME: P. Land Projects 1000s - DeWaters Management Corp. - Box 4000 18 Main St. Centerbrook, CT 06499 - ES - Erosion Control Details - LAYOUT: ES - PLOT DATE: Nov 03, 2015 - 11:58 AM - 10/23/2015

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2:1.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH DOUBLE ROW OF SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED WITH POLYETHYLENE SHEETING. TO BE USED WHERE TOPSOIL IS NECESSARY FOR REGRADING AND VEGETATING DISTURBED AREAS.
4. TOPSOIL IS APPLIED TO SUBSOLTS THAT ARE DRAUGHTY (HAVING LOW AVAILABLE MOISTURE FOR PLANTS), STONEY, SALTY, HAVE LOW PERMEABILITY, OR ARE EXTREMELY ACID. IT IS ALSO USED TO BACKFILL AROUND SHRUB AND TREE TRANSPLANTS. PRESERVATION OF EXISTING TOPSOIL IS BENEFICIAL FOR ALL TYPES OF LAWN OR ORNAMENTAL PLANTINGS. TEMPORARY STOCKPILE STABILIZATION MEASURES INCLUDE VEGETATIVE COVER, MULCH, NONVEGETATIVE COVER.
5. AND PERIPHERAL SEDIMENT TRAPPING BARRIERS. THE STABILIZATION MEASURE(S) SELECTED SHOULD BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, AND REQUIRED PERIOD OF USE.
6. SEE EROSION AND SEDIMENT CONTROL PLAN FOR LOCATIONS.



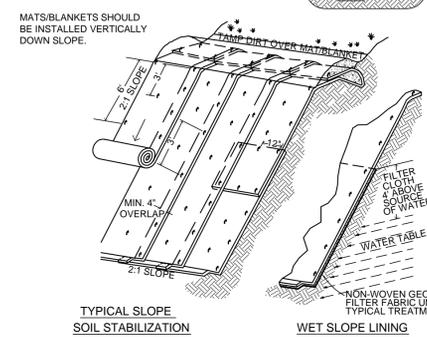
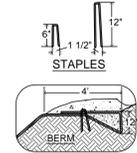
**SOIL STOCKPILE DETAIL**  
N.T.S.



- SILT FENCE JOINTS**
- POSTS SHALL OVERLAP AT JOINTS SO THAT NO GAPS EXIST IN SILT FENCE.
- POST SHALL BE JOINED AS SHOWN, THEN ROTATED 180° IN DIRECTION SHOWN AND DRIVEN INTO THE GROUND.
- NOTE: THICKNESS OF GEOTEXTILE HAS BEEN EXAGGERATED.
- NOTES:**
1. DRIVE POSTS VERTICALLY INTO THE GROUND TO A MINIMUM DEPTH OF 12".
  2. EXCAVATE A TRENCH APPROXIMATELY 6" WIDE AND 6" DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
  3. TRENCH SHALL BE EXCAVATED BY HAND, WITH TRENCHER, OR WITH SILT FENCE INSTALLATION MACHINE. NO ROAD GRADERS, BACKHOES, ETC. SHALL BE USED.
  4. NOT LESS THAN THE BOTTOM 12" OF THE SILT FENCE FABRIC SHALL BE BURIED IN THE TRENCH.
  5. THE TRENCH SHALL BE COMPACTED BY HAND, WITH "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT THE SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
  6. SILT FENCE FABRIC SHALL CONFORM TO CONN. DOT. FORM 816: SECTION 7.55 & M.08.01-26

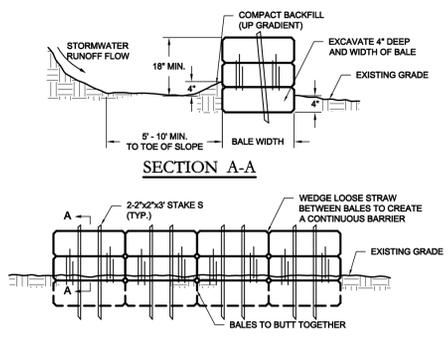
**SILT FENCE DETAIL**  
N.T.S.

- NOTES:**
1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
  2. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.



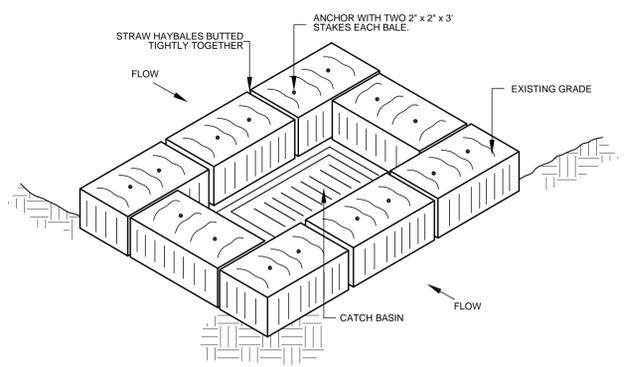
**EROSION BLANKET & REINFORCEMENT MAT SLOPE INSTALLATION**  
N.T.S.

- NOTES:**
1. BALE BARRIER INSTALLATION SHALL FOLLOW THE CONTOUR OF THE LAND. THE LAST BALES SHALL WING UPSLOPE TO ENSURE PROTECTION.
  2. BALE BARRIERS SHALL BE UTILIZED TO INTERCEPT SMALL AMOUNTS OF SEDIMENT FROM DRAINAGE AREAS ONE ACRE IN SIZE OR LESS. MAX. SLOPE BEHIND A BARRIER MUST BE LIMITED TO 2H:1V.
  3. BALE BARRIERS SHALL BE INSPECTED PERIODICALLY, AFTER STORM EVENTS GREATER THAN 1" OF RAINFALL AND SHALL BE REMOVED AND REPLACED AFTER 3 MONTHS EXCEPT AS OTHERWISE DIRECTED BY THE ENGINEER OR ENFORCEMENT OFFICIAL. BALES SHALL NOT BE REMOVED UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.

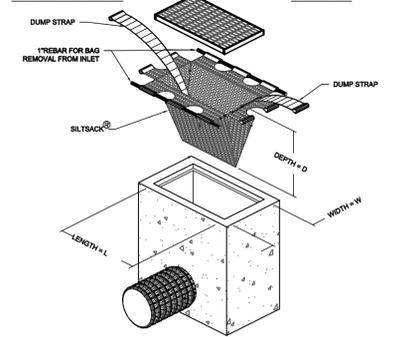
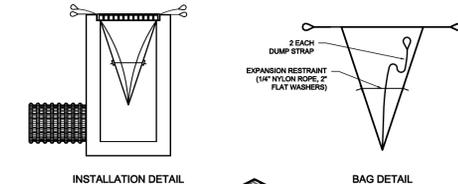


**SECTION A-A**  
**STRAW BALE BARRIER DETAIL**  
N.T.S.

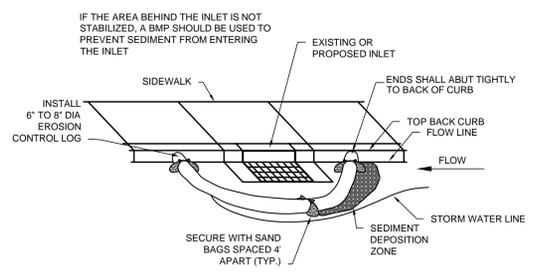
- NOTES:**
1. BALES SHALL BE "SEDIMENTATION CONTROL BALES" CONFORMING TO SECTION 2.18. FILTER FABRIC MAY BE SUBSTITUTED FOR BALES AND SHALL CONFORM TO SECTION 2.19 "SEDIMENTATION CONTROL SYSTEM".
  2. STAKES SHALL BE HARDWOOD. MINIMUM SIZE SHALL BE 1"X1"X3'-0".
  3. BALES SHALL BE 4' BELOW GROUND. FILTER FABRIC SHALL BE 6' BELOW GROUND AS DESCRIBED IN SECTION 2.19.
  4. BALES SHALL BE PLACED AS SHOWN ON THE PLANS, INCLUDING THE UPSTREAM SIDE OF ALL DRIVEWAYS AND AS DIRECTED BY THE ENGINEER.
  5. ALL METHODS, MATERIALS AND PROCEDURES FOR EROSION AND SEDIMENT CONTROL SHALL CONFORM TO FORM 814 & "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION, JANUARY 1985" (OR LATEST REVISION), AND AS DIRECTED BY THE ENGINEER.



**STRAW BALE BARRIER AT CATCH BASIN**  
N.T.S.

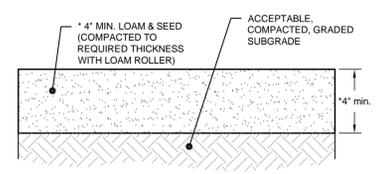


**SILTSACK INLET CONTROL DEVICE**  
N.T.S.



**EROSION CONTROL LOG CURB INLET PROTECTION**  
N.T.S.

- GENERIC SEED MIXTURE** or **SESC MANUAL SEED MIXTURE**
- 25-30% KENTUCKY BLUE GRASS
  - 80% GERMINATION
  - 30-35% RED FESCUE 90% GERMINATION
  - 30-40% PERENNIAL RYE GRASS MIXTURES
  - 85% GERMINATION
- PERMANENT GRASS SEEDING PER FIGURE PS-2 & PS-3 OF THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL MANUAL.



**LOAM & SEED DETAIL**  
N.T.S.

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**PROJECT NAME:**  
Proposed Subsurface Sewage Disposal System Replacement for **Essex Court**  
16 Main Street  
Centerbrook, CT 06409

**PREPARED FOR:**  
Essex Housing Authority

Sheet Description:  
**Soil Erosion & Sediment Control Details**

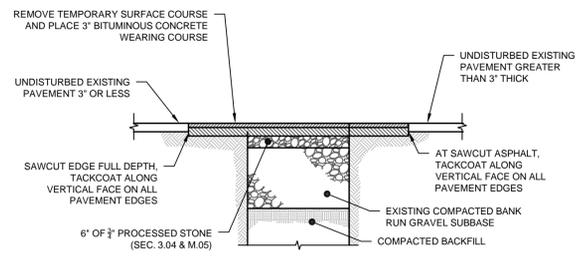
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Date: November 09, 2015  
Project #: 1069A F.B. #: ---  
Drawn By: MSL Approved By: TPA

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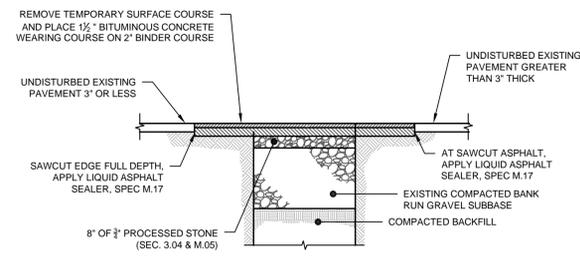
Sheet #:  
**ES2**

DRAWING NAME: P:\Land Projects\1000s\1000s Management Corp. Essex Court 10 Main St. Centerbrook, CT 06479 - 0044 LAYOUT: D1 - Detailing DATE: Nov. 13, 2015 - 10:58am



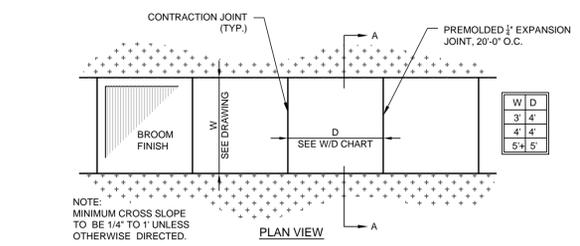
- NOTES:**
- TEMPORARY PAVEMENT PATCHES SHALL BE MAINTAINED IN A DRIVABLE CONDITION.
  - TEMPORARY PAVEMENT PATCHES SHALL BE REPLACED WITH PERMANENT PAVEMENT RESTORATION AS SOON AS POSSIBLE BY THE TOWN OF SOUTHWINDINGTON.

**TEMPORARY PAVEMENT PATCH DETAIL**  
N.T.S.

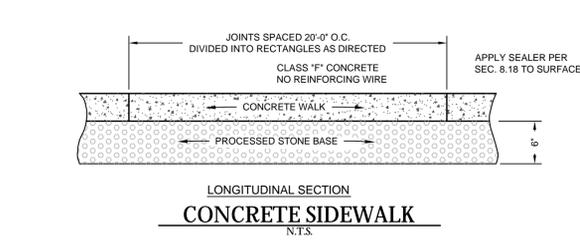
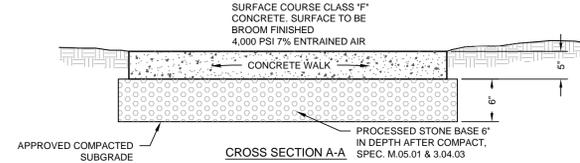


1. ALL PAVEMENT PATCH CONSTRUCTION SHALL CONFORM TO CONN. DOT FORM 816 SPECIFICATIONS AND STANDARDS.

**PERMANENT PAVEMENT PATCH DETAIL**  
N.T.S.

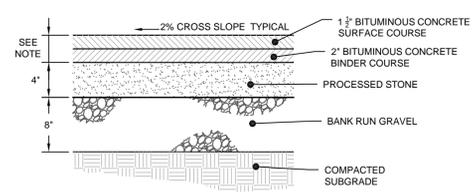


NOTE: MINIMUM CROSS SLOPE TO BE 1/4\"/>

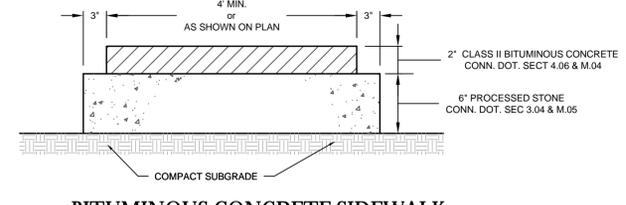


**CONCRETE SIDEWALK**  
N.T.S.

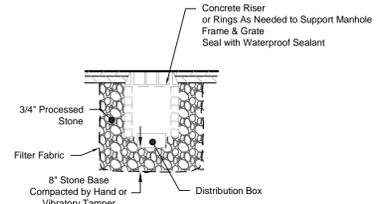
- NOTES:**
- STANDARD BITUMINOUS CONCRETE SECTION.



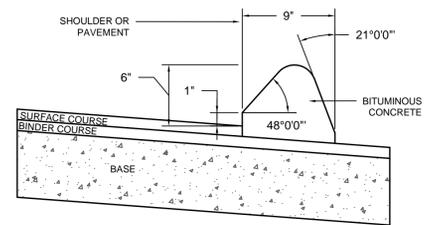
**TYPICAL BITUMINOUS CONCRETE PAVEMENT DETAIL**  
N.T.S.



**BITUMINOUS CONCRETE SIDEWALK**  
N.T.S.

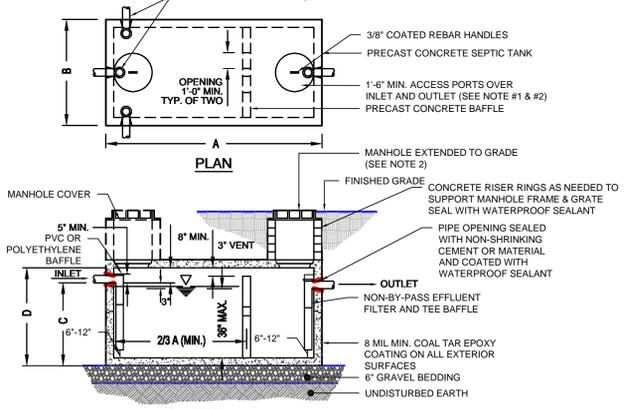


**DISTRIBUTION BOX ACCESS**  
N.T.S.



**BITUMINOUS CONCRETE CURBING**  
N.T.S.

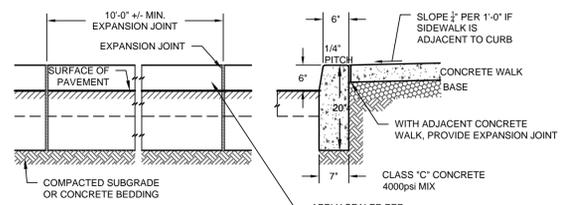
- NOTES:**
- MANHOLE COVERS SHALL BE LABELED WITH NOTIFICATION OF ITS TWO COMPARTMENT CONSTRUCTION AND WARNING TO EVERYONE THAT ENTRANCE INTO TANK COULD BE FATAL.
  - ACCESS MANHOLES ARE REQUIRED IN ALL PAVED AREAS, AND IN ALL UNPAVED AREAS WHERE HEIGHT TO TOP OF TANK EXCEEDS 1'-0". INSPECTION COVERS OVER BAFFLES SHALL BE NO GREATER THAN 12 INCHES BELOW FINISHED GRADE.
  - ALL TANK INFORMATION AND TANK LIQUID CAPACITY SHALL BE MARKED ON THE TOP OF THE TANK, BETWEEN THE OUTLET ACCESS HOLE AND OUTLET WALL, OR ON THE VERTICAL OUTLET WALL BETWEEN THE TOP OF THE TANK AND THE TOP OF THE OUTLET OPENING.
  - SPECIFICATIONS**
    - CONCRETE MINIMUM STRENGTH - 4,000 PSI @ 28 DAYS WITH A 4% TO 7% AIR ENTRAINMENT.
    - STEEL REINFORCEMENT - ASTM A615, GRADE 60, 1" MINIMUM COVER.
    - MONOLITHIC DESIGN WITH STRUCTURAL SEAMS LOCATED ABOVE STATIC WATER LEVEL.
    - CONSTRUCTION JOINTS TO BE SEALED WITH CS-102 BUTYL RUBBER OR EQUAL AND PARGED WITH A WATERPLUG GROUT.
    - THE INTERIOR OF THE TANK SHALL BE COATED WITH AN EPOXY SEALANT RESISTANT TO GASOLINE, OIL, AND SOLVENTS.
    - THE EXTERIOR OF THE TANK, INCLUDING THE EXTERIOR TOP AND BOTTOM AND EXTENSION TO GRADE MANHOLES, SHALL BE COATED WITH A WATERPROOF SEALANT.
    - VOIDS BETWEEN SEPARATOR WALLS AND INLET AND OUTLET PIPING SHALL BE GROUTED WITH NON-SHRINKING CEMENT AND COATED WITH A WATERPROOF SEALANT.
    - DESIGN LOADING - AASHTO H-20 FOR ALL TRAVELED AREAS, LIGHT DUTY SERVICE FOR ALL NON-TRAVELED AREAS.
    - TANK TO BE ASTM C1227 COMPLIANT.



**SEPTIC TANK PRECAST CONCRETE**  
N.T.S.

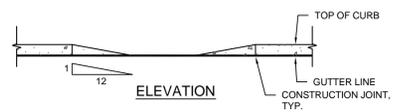
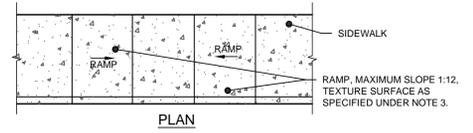
| GREASE TRAP DIMENSION SCHEDULE |          |         |          |          |                |                   |
|--------------------------------|----------|---------|----------|----------|----------------|-------------------|
| LIQUID CAPACITY                | A LENGTH | B WIDTH | C INVERT | D HEIGHT | E LIQUID LEVEL | UNIT(S) SPECIFIED |
| 1000 GAL.                      | 8'-0"    | 4'-4"   | 4'-3"    | 4'-9"    | 4'-0"          | 0                 |
| 1250 GAL.                      | 10'-0"   | 5'-2"   | 3'-5"    | 3'-11"   | 3'-2"          | 0                 |
| 1500 GAL.                      | 10'-0"   | 5'-2"   | 4'-3"    | 4'-9"    | 4'-0"          | 1                 |
| 2000 GAL.                      | 11'-3"   | 5'-10"  | 4'-2"    | 5'-0"    | 3'-11"         | 0                 |
| 2500 GAL.                      | 11'-3"   | 5'-10"  | 5'-2"    | 6'-0"    | 4'-11"         | 0                 |

NOTE: DIMENSIONS MAY VARY DEPENDING ON MANUFACTURER. CONTRACTOR TO VERIFY SUITABILITY OF OTHER TANK DIMENSIONS PRIOR TO INSTALLATION.

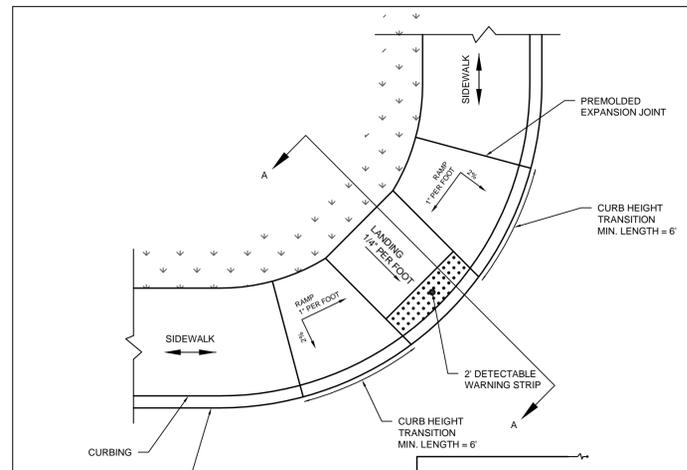


**CONCRETE CURBING DETAIL**  
N.T.S.

- NOTES:**
- HANDICAP RAMP TYPE AND LOCATIONS ARE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE OWNERS REPRESENTATIVE.



**HANDICAP RAMP TYPE 1**  
N.T.S.



- GENERAL NOTES:**
- ALL RAMPS SHALL BE CONSTRUCTED OF CLASS F CONCRETE PER DOT FORM 816. MIN. 4000 PSI WITH 5-7% AIR ENTRAINMENT.
  - SURFACES SHALL HAVE BROOM FINISH TRAVERSE TO THE SLOPE OF RAMP. THE SURFACE SHALL BE STABLE, FIRM AND SLIP RESISTANT IN COMPLIANCE WITH ADAAG SECTION 4.5.
  - APPLY SEALER TO ALL CONCRETE SURFACES PER SEC. 8.18.
  - CARE SHOULD BE TAKEN TO ASSURE UNIFORM GRADE ON RAMP, FREE OF SAGS AND ABRUPT GRADE CHANGES.
  - MATERIALS AND CONSTRUCTION SHALL CONFORM WITH LOCAL GOVERNING STANDARDS.

**DIAGONAL RAMP - TYPE 4B ATTACHED WALK**  
N.T.S.



**cole**  
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**PROJECT NAME:**  
Proposed Subsurface Sewage Disposal System Replacement for Essex Court  
16 Main Street  
Centerbrook, CT 06409

**PREPARED FOR:**  
Essex Housing Authority

**Sheet Description:**  
Construction Details

Scale: NOT TO SCALE

Date: November 09, 2015

Project #: 1069A F.B.#: ---

Drawn By: MSL Approved By: TPA

| Date: | Descriptions: |
|-------|---------------|
| ----  | ----          |
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| ----  | ----          |
| ----  | ----          |

Sheet #:  
**D1**