

**ONE PIECE FIBERGLASS SHELL MANUFACTURING**

**I. PROCESS**

- a. Cleaning - A mold representing the final shape to manufacture must be cleaned with a non-hap solvent or cleaner.
- b. Release - A semi-permanent or wax release agent is applied to the mold and buffed off at the appropriate time.
- c. Curing Release - The release agent must be allowed to cure or dry for a minimum of one hour.
- d. Gel Coat - A polyester gel coat that meets the styrene monomer content applied for with the Title V EPA air permit is applied in three equal passes. The total gel coat thickness is between 28 and 35 mils in thickness. A specified amount of time is provided between each of the three applications of gel coat to allow a de-gassing time of the material. The equipment used shall meet all EPA emission requirements.
- e. Barrier Coat - A vinyl ester barrier coat that meets the styrene monomer and methacrylic acid content applied for with the Title V EPA air permit is applied in one spray pass over the gel coat. The equipment used shall meet all EPA emission requirements.
- f. Fiberglass - Layers of fiberglass and polyester resin are then applied over the vinyl ester barrier coat in a manner consistent with the laminate schedule that follows. Each layer may consist of a manually applied hand laid layer of fiberglass and resin or a machine applied layer of fiberglass and resin. The machine applied layer is referred to a "Chop Layer", as the equipment used is often referred to as a Chopper Gun. The equipment used shall meet all EPA emission requirements.
- g. Core - Additional core and lift-points are applied for specific strength and handling reasons based on the size and shape of the desired shape.
- h. Curing - The layers of fiberglass and resin are allowed to cure for a minimum of 24 hours on the mold.
- i. De Molding - The one piece fiberglass pool shell is then lifted off the mold with the appropriate equipment making sure there are no unusual loads applied to the shell.
- j. Trimming - The shell is then trimmed and flipped over so that it is right side up.
- k. Quality Control - An individual trained with the quality control methods then inspects the shell with a non-destructive ultra sound thickness gauge measuring instrument and inspects all of the surface for imperfections. The proper notes are recorded on a quality control sheet.
- l. Storage - If the shell is not being shipped immediately it is placed in a predetermined position that allows for proper rain water drainage or snow accumulation if necessary.

**II. FIBERGLASS SHELL REQUIREMENTS - LAMINATE SCHEDULE**

- a. Gel Coat - 28 to 35 mils applied in three passes with adequate degas time in-between each pass. The equipment used shall meet all EPA emission requirements.
- b. Barrier Coat - 18 to 22 mils applied in one pass. The equipment used shall meet all EPA emission requirements.
- c. Chop Skin Layer - Thin layer of fiberglass and polyester resin applied with a Chopper Gun.
- d. Chop Thick Layer - Thick layer of fiberglass and polyester resin applied with a Chopper Gun.
- e. Chop Thick Layer - Thick layer of fiberglass and polyester resin applied with a Chopper Gun.
- f. Hand Layer - A hand laid layer of fiberglass woven roving and resin is applied over all of the pool surface with multiple layers applied in strategic locations per a detailed schedule based upon pool design.
- g. Chop Thick Layer - Thick layer of fiberglass and polyester resin applied with a Chopper Gun.
- h. Core - A layer of either 1/4" or 1/2" thick polypropylene honeycomb core material is bonded and chopped over on all horizontal surfaces. This includes all benches, steps and ledges. The areas shall be covered close to 100% so as to allow an easier more complete backfill during installation.
- i. Lift Points - 3" diameter tubes will be applied at pre-determined locations. The tubes shall have multiple layers of fiberglass material applied over them.
- j. Curing - The final laminate application shall be allowed to cure for a minimum of 24 hours before de-molding.

**III. MATERIALS**

- a. Gel Coat
  - i. Mfgr - Polynt Composites, North Kansas City, MO
  - ii. Shimmer Series
  - iii. Styrene Monomer, CAS# 000100-42-5, 28 - 35% by weight
  - iv. Methyl Methacrylate, CAS#000080-62-6, 5-8% by weight
- b. Barrier Coat
  - i. Mfgr - Interplastic Corporation, St. Paul, MN
  - ii. Custom blended Vinyl Ester Resin
  - iii. Styrene Monomer, CAS# 000100-42-5, 20 - 40% by weight
- c. Resin
  - i. Mfgr - Interplastic Corporation, St. Paul, MN
  - ii. Custom blended Unsaturated Polyester Resin
  - iii. Styrene Monomer, CAS# 000100-42-5, 30-33% by weight
- d. Fiberglass
  - i. Mfgr - Owens Corning Composite Materials, LLC
  - ii. Woven and unwoven continuous filament fiber glass
  - iii. Advantex boron free ECR glass
- e. Core Material
  - i. Polypropylene
  - ii. Structure - honeycomb with polyester compatible bonding material on both sides.
  - iii. Thickness - 1/4 to 1/2"

**IV. GENERAL NOTES**

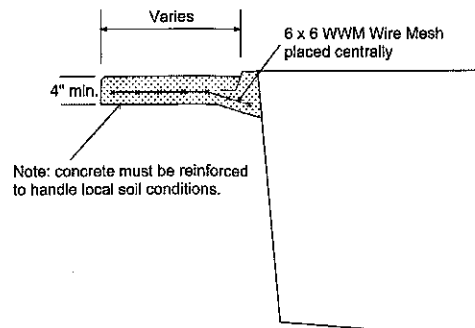
- a. Installation
  - i. This pool must be installed by a qualified license contractor.
  - ii. Installation must meet all state and local building codes.
  - iii. All electrical work of this construction must be performed by a license Electrical contractor.
  - iv. Excavation must be performed by a qualified professional excavator.
  - v. Soil conditions must be evaluated for proper bearing and compaction.
  - vi. If deemed necessary proper testing must be performed.
  - vii. The soil must be undisturbed, if not, it must be evaluated by an engineer to determine proper bearing.
  - viii. Storm water must be allowed to drain on all sides of the pool and allowed to drain by gravity if possible. If not, the water must be allowed to drain to a well pit that is accessible to pump out the water if necessary.
  - ix. Pool water main drains are not recommended, but if installed must conform to all ANSI/ASME standards and the Virginia Graham Baker Act.
  - x. Handrails, ladders and steps must conform to all building codes including proper grounding.
  - xi. Concrete perimeter coping must be installed to properly support the top of the fiberglass.
  - xii. A well pit, preferable 8" diameter pipe, must be installed to 12" below the deepest part of the pool. The pit must have a lid that can be removed, but has a sufficient closing system, typically screws, to allow it to be locked closed for safety. The pit must be able to allow a well pump to be inserted to lower the ground water around the pool to a depth of 8" below the bottom of the pool.

**b. BACKFILL AND COMPACTION**

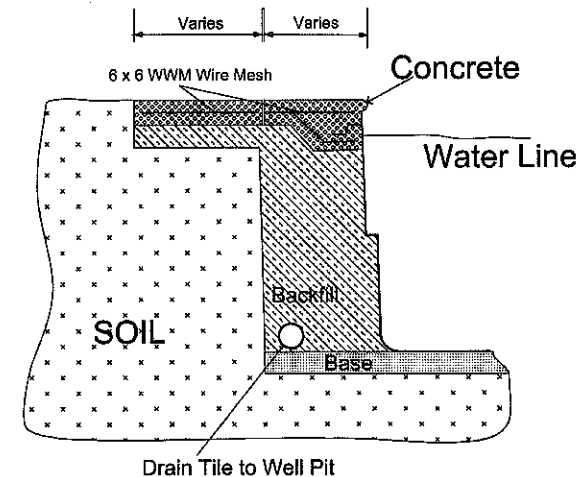
- i. The pool shall be placed on a drainable stone base that has been compacted and leveled to the dimensions of the dig plan and the minimum depth of 4".
- ii. The backfill material shall be properly compacted fractured/crushed/broken stone or gravel that is washed or clean.
- iii. The material must not contain any fines that would prevent water flow.
- iv. The material must not have rounded edges.
- v. The material must not be a pea gravel
- vi. Round rock can not be used
- vii. The recommended size is 1/2" minus.
- viii. The material must be approved by the installer prior to installation.
- ix. The material must not be of a size and shape that allows it to compromise the fiberglass shell wall.

WARNING: IT IS A VIOLATION OF NYS LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER, TO ALTER AN ITEM IN ANY WAY.

**CONCRETE COPING DETAIL - PAVERS ON TOP**



**CONCRETE COPING DETAIL - CANTILEVERED CONCRETE**



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|          |            |                                    |  |
|----------|------------|------------------------------------|--|
| PROJECT  |            | DUKE                               |  |
|          |            | 22 WHITLOCK LN RIDGEFIELD CT 06887 |  |
| DRAWING  |            | NOTES                              |  |
| SCALE    | DRAWN BY   | DRAWING NO.                        |  |
| AS NOTED | RL         | A101                               |  |
| DATE     | CHECKED BY |                                    |  |
| 04/06/21 |            |                                    |  |

# 2018 ISPSC – Swimming Pool Code Analysis

WARNING: IT IS A VIOLATION OF NYS LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER, TO ALTER AN ITEM IN ANY WAY.

| Name:          | Monolith       | Goliath      | Goliath      | Goliath      | Wellspring    | Wellspring    | Cathedral     | Cathedral | Cathedral | Spirit      | Lil Bob       | Infinity      | Titus       | Titus     | Sea Turtle   | Pearl         | SPA           | Wading        | Aspen 1640    | Aspen 1635    | Aspen 1435    | Aspen 1225  | Lil Bob     |
|----------------|----------------|--------------|--------------|--------------|---------------|---------------|---------------|-----------|-----------|-------------|---------------|---------------|-------------|-----------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------|-------------|
| Number:        | 1640           | 1641         | 1637         | 1633         | 1640          | 1636          | 1640          | 1636      | 1433      | 1340        | 1327          | 1327          | 1433        | 1226      | 1020         | 1525          |               |               | 1640          | 1635          | 1435          | 1225        |             |
| O.D.           | 16' x 40'      | 16' x 41'    | 16' x 37'    | 16' x 33'    | 16' x 40'     | 16' x 35'     | 16' x 40'     | 16' x 36' | 14' x 33' | 13.5' x 40' | 13' x 27.5'   | 16' x 27.5'   | 14' x 33'   | 12' x 26' | 10' x 20'    | 15' x 25'     | 9' x 9'       | 9' x 9'       | 16' x 40'     | 16' x 35'     | 14' x 35'     | 12' x 25.5' | 13' x 33'   |
| I.D.           | 14'10" x 39'4" | 14'11" x 40' | 14'11" x 36' | 14'11" x 32" | 15'3" x 39'3" | 15'2" x 34'3" | 15'0" x 39'0" | 15' x 35' | 13' x 32' | 12'9" x 39' | 12'9" x 26'9" | 12'9" x 26'9" | 12'8" x 32' | 11' x 25' | 8'7" x 18'7" | 15'1" x 24'9" | 7'11" x 7'11" | 7'11" x 7'11" | 15'1" x 24'9" | 15'1" x 24'9" | 15'1" x 24'9" | 11' x 24'6" | 12'9" x 33' |
| Perimeter      | 108.3          | 109.8        | 101.8        | 93.8         | 110           | 100           | 114           | 100       | 86        | 104         | 79            | 79            | 87          | 72        | 54.3         | 70            | 31.6          | 31.6          | 112           | 102           | 98            | 75          | 96          |
| Depth- Shallow | 3'4"           | 3'8"         | 3'8"         | 3'8"         | 1'            | 1'            | 3'8"          | 3'8"      | 3'5"      | 4'6"        | 4'6"          | 4'6"          | 3'5"        | 3'5"      | 4'6"         | 1'            | 3'2"          | 1'6"          | 3'-4"         | 3'-4"         | 3'-4"         | 1'          | 4'6"        |
| Depth- Deep    | 8'6"           | 6'8"         | 6'4"         | 6'           | 6'8"          | 6'8"          | 6'0"          | 5'6"      | 5'        | 4'6"        | 4'6"          | 5'10"         | 5'5"        | 4'6"      | 3'9"         | 3'2"          | 1'6"          | 1'6"          | 5'-9"         | 5'-4"         | 5'-4"         | 5'-1"       | 4'6"        |
| Est. Gallons   | 22400          | 19700        | 17500        | 15300        | 15500         | 13500         | 12500         | 10500     | 8000      | 13500       | 9000          | 9000          | 11000       | 7500      | 4300         | 2000          | 900           | 510           | 13090         | 10140         | 8423          | 7425        | 9500        |
| Est. Weight    | 3500 lbs       | 3200 lbs     | 3000 lb      | 2700 lbs     | 2800 lbs      | 2600 lbs      | 3200 lbs      | 2800 lbs  | 2400      | 2800 lbs    | 1900 lbs      | 2900 lbs      | 2200 lbs    | 1800 lbs  | 1200 lbs     | 1200 lbs      | 450 lbs       | 300 lbs       | 2800 lbs      | 2300 lbs      | 2100 lbs      | 1600 lbs    | 2200 lbs    |
| Type I Diving  | Yes            | No           | No           | No           | No            | No            | No            | No        | No        | No          | No            | No            | No          | No        | No           | No            | No            | No            | No            | No            | No            | No          | No          |

## Chapter 8 – Permanent In ground Residential Swimming Pool

### 802.1 Materials of Components and accessories

The swimming pool material shall be suitable for the environment in which they are installed and shall be capable of fulfilling the design, installation and intended use requirements in the International Residential Code (IRC).

The subject pools are composed of fiber glass shells meeting these requirements. See "Fiberglass Shell Requirements".

### 802.2 Structural Design

The structural design and materials shall be in accordance with the IRC.

The subject pools meet or exceed all loads prescribed in the IRC Section 301. All Pool installations in Flood Hazard A or V Zones ( as noted in IRC Section 322) required additional hold-down features to be designed on a case – by – case basis.

### 803.1 Construction Tolerances

The construction tolerance for dimensions for the overall length, width and depth of the pool shall be ± 3 inches. The construction tolerance for all other dimensions shall be ± inches, unless otherwise specified by the design engineer.

The subject pools meet the noted construction tolerances. Field installation tolerances should be verified during field inspections.

### 804 Diving Water Envelopes

Meets Type I di

N/A The subject pools are non-diving.

### 805 Walls

Walls in the shallow area and deep areas of the pools shall have a wall-to-floor transition points that is not less than 33 inches below the design waterline. Above the transition pint, the walls shall be within 11 degrees of vertical.

The subject pools have a minimum wall-to-floor transition 41" below the design waterline and the wall are within 10 degrees of vertical.

### 806.1 Offset Ledges – Maximum Width

Offset ledges shall be not greater than 8 inches in width.

The subject pools have offset ledges equal to 3 1/4 " or less.

### 807.1 Pool Floor Slopes

Floor Slopes shall be in accordance with Section 807.1.1 through 807.1.3.

Meets all slopes including 1 unit verticle in 3 units horizontal

The subject pools have a single 1-unit vertical to 14-unit horizontal slope either meeting or making all the subject requirements N/A.

### 807.2 Shallow End Water Depths

The design water depth as measured at the shallowest point in the shallow area shall be not less than 33 inches and not greater than 4 feet. Shallow areas designed in accordance with Section 809.6, 809.7 and 809.8 shall be exempt from the minimum depth requirement.

The subject pools have a minimum depth of 3'-8" (44").

Subject pool is flat bottom, shallow end requirements do not apply

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Subject pool is flat bottom, shallow end requirements do not apply

The subject pools have a minimum depth 3'-8" (44").

### 808 Diving Equipment

N/A The subject pools do not include any diving equipment

### 809 Special Features

#### 809.1 Slides

N/A The subject pools do not include any integral slides



|          |            |                                    |
|----------|------------|------------------------------------|
| PROJECT  |            | DUKE                               |
|          |            | 22 WHITLOCK LN RIDGEFIELD CT 06887 |
| DRAWING  |            | NOTES                              |
| SCALE    | DRAWN BY   | DRAWING NO.                        |
| AS NOTED | RL         | A102                               |
| DATE     | CHECKED BY |                                    |
| 04/01/21 |            |                                    |

# 2018 ISPSC – Swimming Pool Code Analysis

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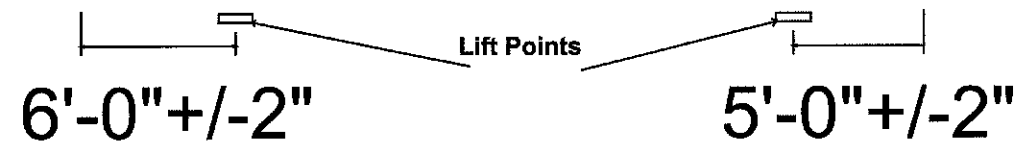
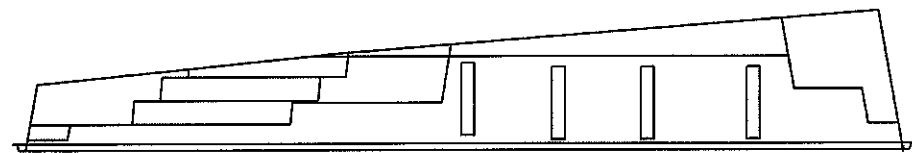
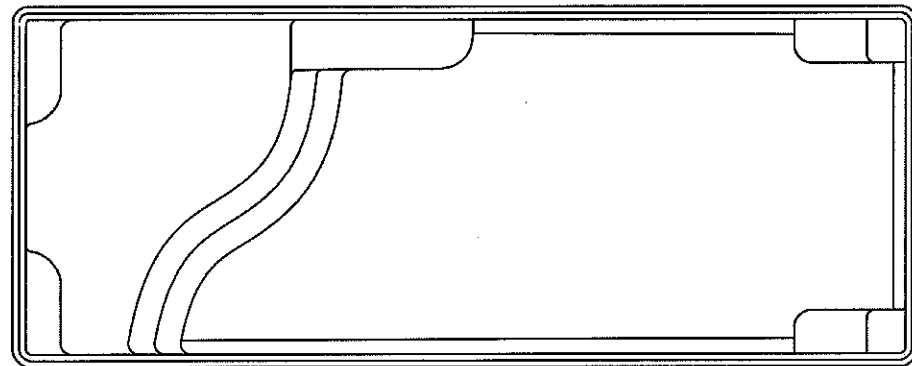
Name: Monolith Goliath Goliath Goliath Wellspring Wellspring revas Oasis Cathedral Cathedral Spirit Lil Bob Infinity Titus Titus Sea Turtle Pearl SPA Wading Aspen Aspen Aspen Aspen Lil Bob LX  
 Number: 1640 1641 1637 1633 1640 1635 # # 1527 1636 1433 1340 1327 1327 1433 1226 1020 1525 1640 1635 1435 1225

|  |  |  |  |   |
|--|--|--|--|---|
| <p><b>809.2 Entry and Exit</b><br/>Pools shall have a means of entry and exit in all shallow areas where the design water depth of the shallow area at the shallowest point exceeds 24 inches (610mm). Entries and exits shall consist of one or a combination of the following: steps, stairs, ladders, treads, ramps, beach entries, underwater seats, benches, swimouts and other approved designs. The means of entry and exit shall be located on the shallow side of the first slope change.</p> | <p>The subject pools have at least one stair at the shallow end of the pool.</p>   |  |  |   |
| <p><b>809.3 Secondary entries and exits</b><br/>Where water depth in the deep area of a pool exceeds 5 feet (1524 mm), a means of entry and exit shall be provided in the deep area of the pool.</p>   | <p>The subject pools have an underwater seat in the deep end.</p>  | <p>N/A Depth is &lt; 5'</p>  | <p>pools have an underwater seat in the deep end.</p>                  | <p>N/A Depth is &lt; 5'</p>                               |
| <p><b>809.4 Over 30 Feet Width</b></p>   | <p>N/A the subject pools are not in excess of 30" in width.</p>  |  |  |   |
| <p><b>809.5.1 Tread Dimension and Area</b><br/>Treads shall have a minimum unobstructed horizontal depth of 10 inches and a minimum unobstructed surface area of 240 square inches.</p>  | <p>The subject pools have treads with a minimum unobstructed horizontal depth of 10 inches and a minimum unobstructed surface area of 240 square inches.</p> |  |  |   |
| <p><b>809.5.2 Bottom Riser</b><br/>On shallow end stairs, the bottom riser height is allowed to vary to the floor. The bottom riser must not exceed 12 inches to the floor for the width of the walking surface.</p>   | <p>The subject pools have bottom riser heights greater than 3" and less than 12".</p>  |  |  |   |
| <p><b>809.5.3 Riser</b><br/>Risers at the centerline shall have a uniform height not greater than 12 inches, except the top riser, which shall be permitted to vary in height, but not exceed 12 inches.</p>   | <p>The subject pools have maximum typical riser heights of 12" and top risers of 8".</p>   |  |  |   |
| <p><b>809.5.4 Additional Steps</b><br/>In design water depths exceeding 48 inches, no additional steps shall be required.</p>  | <p>The subject pools meet these criteria.</p>  |  |  |   |
| <p><b>809.6 Beach and Sloping Entries</b></p>  | <p>N/A The subject pools do not include beach and sloping entries.</p>   | <p>The subject pools have a flat entry with no slope.</p>            | <p>N/A The subject pools do not include beach and sloping entries.</p> | <p>The subject pools have a flat entry with no slope.</p> |
| <p><b>809.7 Steps and Sloping Entries</b></p>  | <p>N/A The subject Pools do not include step and sloping entries.</p>  |  |  |   |
| <p><b>809.8 Architectural Features</b></p>   | <p>N/A The subject pools do not include architectural features.</p>  |  |  |   |
| <p><b>810.1 Turnover Rate</b><br/>The circulation system equipment shall be sized to provide a turnover of the pool water not less than once every 12 hours. The system shall be designed to provide the required turnover rate based upon the manufacturer's specified flow rate of the filter, with clean media condition of the filter.</p>   | <p>The subject pools provide a turnover of the pool water not less than once every 4 hours.</p>  |  |  |   |
| <p><b>810.2 Pressure Test</b></p>  | <p>In accordance with 2015 ISPSC, this test will not be required.</p>  |  |  |   |
| <p><b>810.3 Strainer Required</b><br/>Pressure filter systems shall be provided with a strainer located between the pool and the circulation pump.</p>   | <p>The subject pools provide a strainer located between the pool and the circulation pump.</p>   |  |  |   |
| <p><b>811.1 Rope and Float</b></p>   | <p>permanent anchor with disconnect</p>  | <p>N/A the subject pools do not have a break in the floor slope.</p> |  |   |



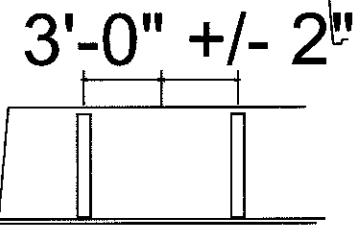
|                                    |            |             |      |  |  |
|------------------------------------|------------|-------------|------|--|--|
| PROJECT                            |            |             | DUKE |  |  |
| 22 WHITLOCK LN RIDGEFIELD CT 06887 |            |             |      |  |  |
| DRAWING                            |            |             |      |  |  |
| <b>NOTES</b>                       |            |             |      |  |  |
| SCALE                              | DRAWN BY   | DRAWING NO. |      |  |  |
| AS NOTED                           | RL         |             |      |  |  |
| DATE                               | CHECKED BY | <b>A103</b> |      |  |  |
| 04/06/21                           |            |             |      |  |  |

# Aspen 1435



**A LIFT POINTS**  
A104 SCALE: N.T.S

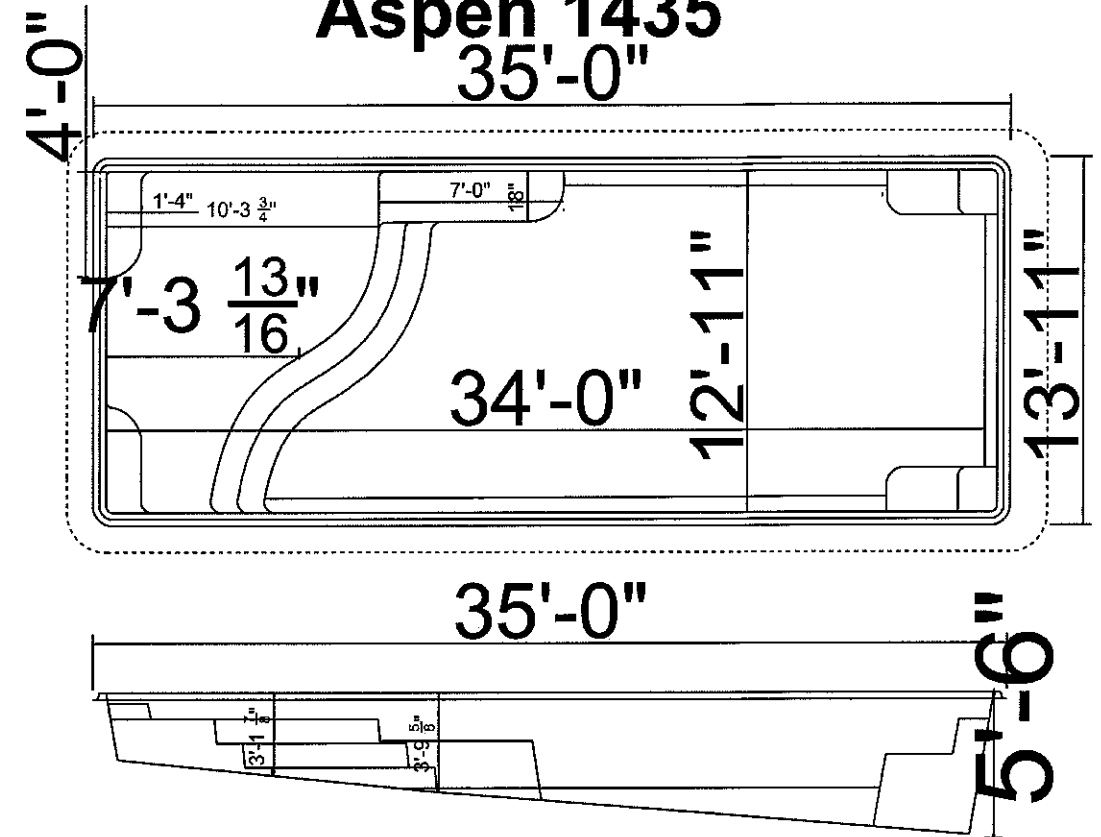
**Core**  
all horizontal surfaces  
and sides and back (9 @ 4')



3'-0" +/- 2"

# Aspen 1435

35'-0"



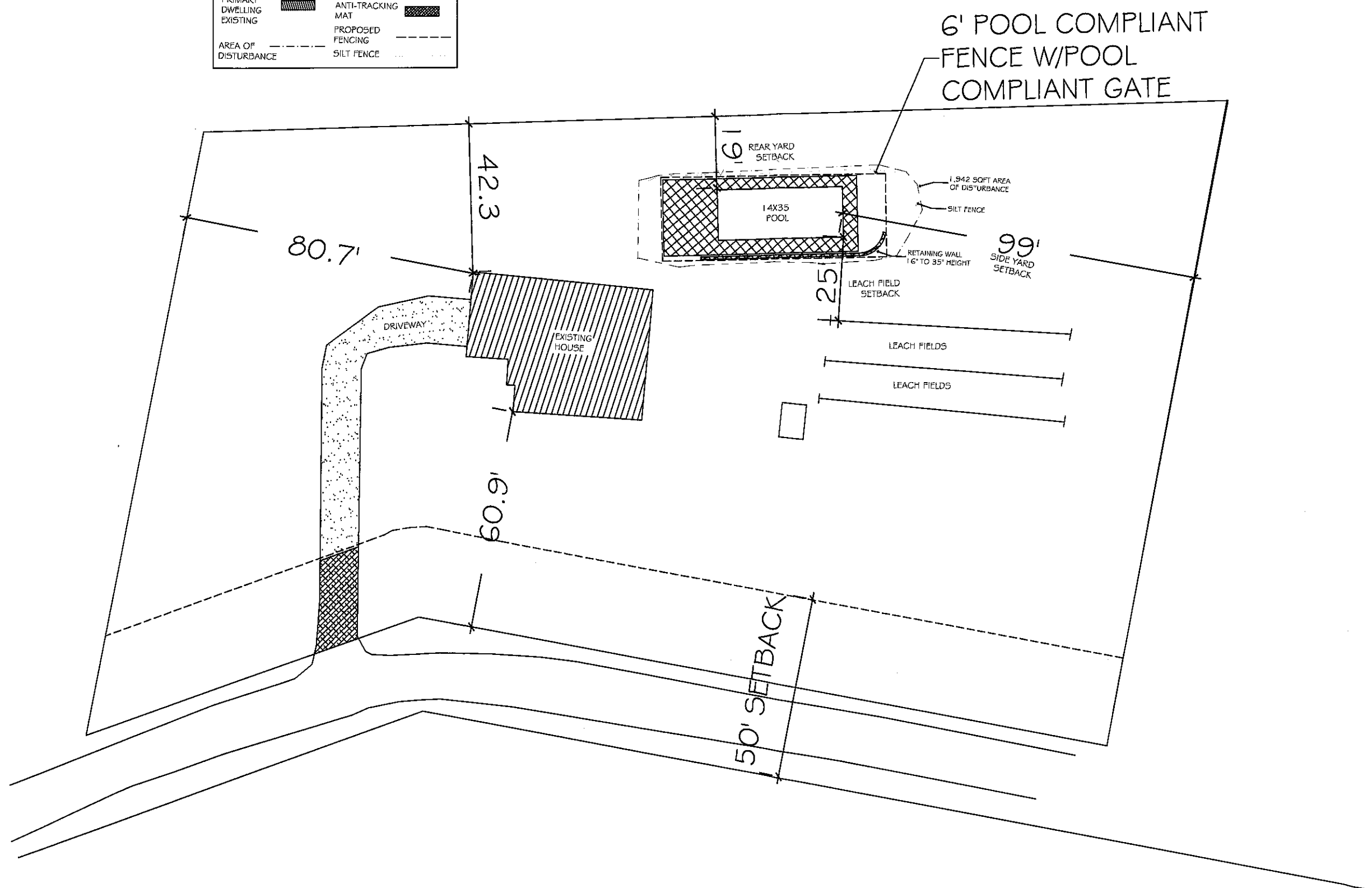
**B DIMENSIONS**  
A104 SCALE: N.T.S



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|          |            |                                    |  |
|----------|------------|------------------------------------|--|
| PROJECT  |            | DUKE                               |  |
|          |            | 22 WHITLOCK LN RIDGEFIELD CT 06887 |  |
| DRAWING  |            | NOTES                              |  |
| SCALE    | DRAWN BY   | DRAWING NO.                        |  |
| AS NOTED | RL         | A104                               |  |
| DATE     | CHECKED BY |                                    |  |
| 04/06/21 |            |                                    |  |

| KEY                       |           |
|---------------------------|-----------|
| PROPOSED FENCING          | --- ---   |
| PRIMARY DWELLING EXISTING |           |
| AREA OF DISTURBANCE       | - - - - - |
| CONSTRUCTION ENTRANCE     |           |
| ANTI-TRACKING MAT         |           |
| PROPOSED FENCING          | --- ---   |
| SILT FENCE                | - - - - - |



PLEASE NOTE THE PROPOSED POOL LOCATION ON THIS PLOT PLAN IS REFERENCED FROM THE SURVEY CONDUCTED BY NEVILLE V. RAMSAY LICENSE #050294-1 FINAL SURVEY VERSION 10/05/20

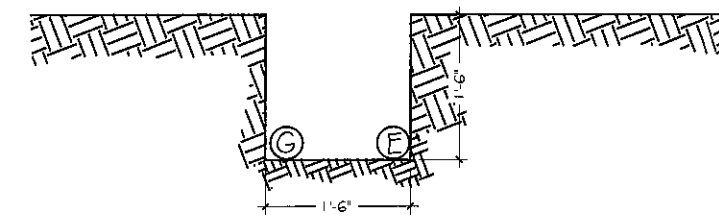
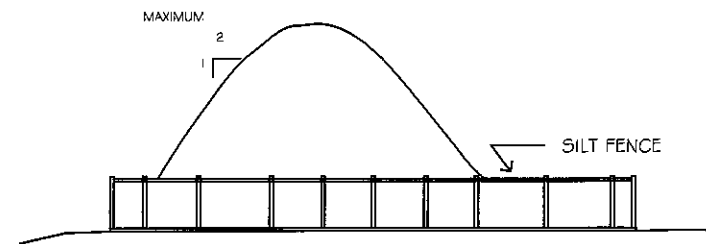
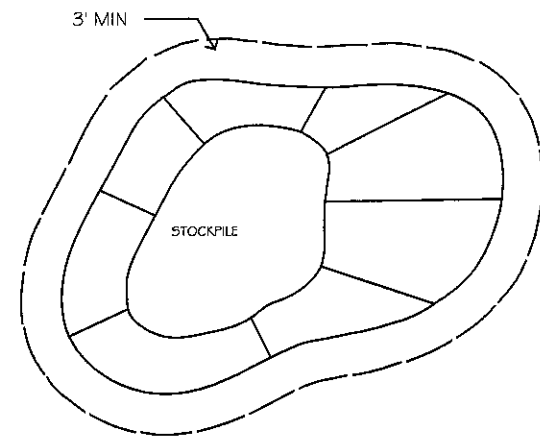
**A SITE PLAN**  
A106 SCALE: 1" = 20'-0"

PLEASE NOTE THAT ALL DIMENSIONS MUST BE VERIFIED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

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|------------------------------------|------------|-------------|
| PROJECT                            |            |             |
| DUKE                               |            |             |
| 22 WHITLOCK LN RIDGEFIELD CT 06887 |            |             |
| DRAWING                            |            |             |
| SITE PLAN                          |            |             |
| SCALE                              | DRAWN BY   | DRAWING NO. |
| AS NOTED                           | RL         | A106        |
| DATE                               | CHECKED BY |             |
| 04/06/21                           |            |             |

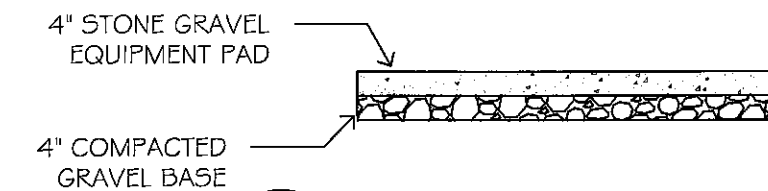


**B TRENCH DETAIL**  
 A107 SCALE: 1/2" = 1'-0"

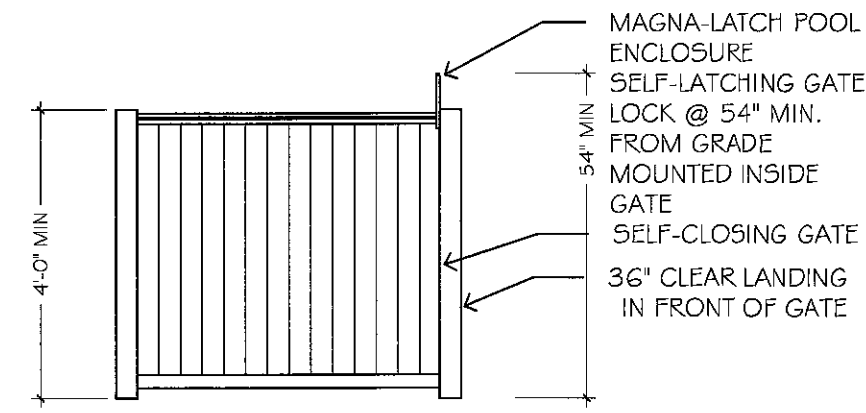
## SP-1. STOCKPILE PROTECTION

### STOCKPILE PROTECTION INSTALLATION NOTES

- SEE PLAN VIEW FOR:
  - LOCATION OF STOCKPILES.
  - TYPE OF STOCKPILE PROTECTION.
- INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS; HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENT CONTROL LOGS OR ROCK SOCKS MAY BE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A PERVIOUS OR IMPVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHIFTS OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.
- STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS, OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDED AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).
- FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.



**C EQUIPMENT PAD**  
 A107 SCALE: 3/8" = 1'-0"



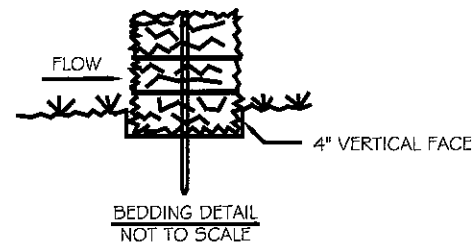
**B GATE DETAIL**  
 A107 SCALE: 1/2" = 1'-0"

**A SOIL STACK**  
 A107 SCALE: N.T.S

PLEASE NOTE THAT ALL DIMENSIONS MUST BE VERIFIED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

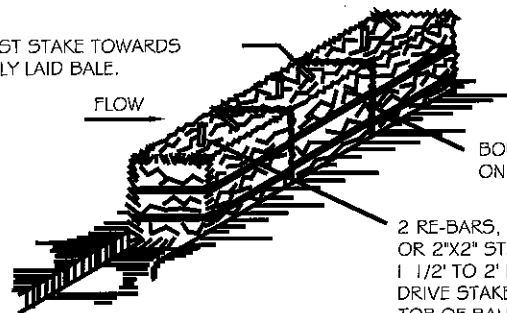
WARNING: IT IS A VIOLATION OF NYS LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER, TO ALTER AN ITEM IN ANY WAY.

|  |            |             |
|--|------------|-------------|
| PROJECT                                    |            |             |
| DUKE<br>22 WHITLOCK LN RIDGEFIELD CT 06887 |            |             |
| DRAWING                                    |            |             |
| DETAILS                                    |            |             |
| SCALE                                      | DRAWN BY   | DRAWING NO. |
| AS NOTED                                   | REL        | A107        |
| DATE                                       | CHECKED BY |             |
| 04/06/21                                   |            |             |



DRAINAGE AREA NO MORE THAN 1/4 ACRE PER 100 FEET OF STRAW BALE DIKE FOR SLOPES LESS THAN 25%.

ANGLE FIRST STAKE TOWARDS PREVIOUSLY LAID BALE.



ANCHORING DETAIL NOT TO SCALE

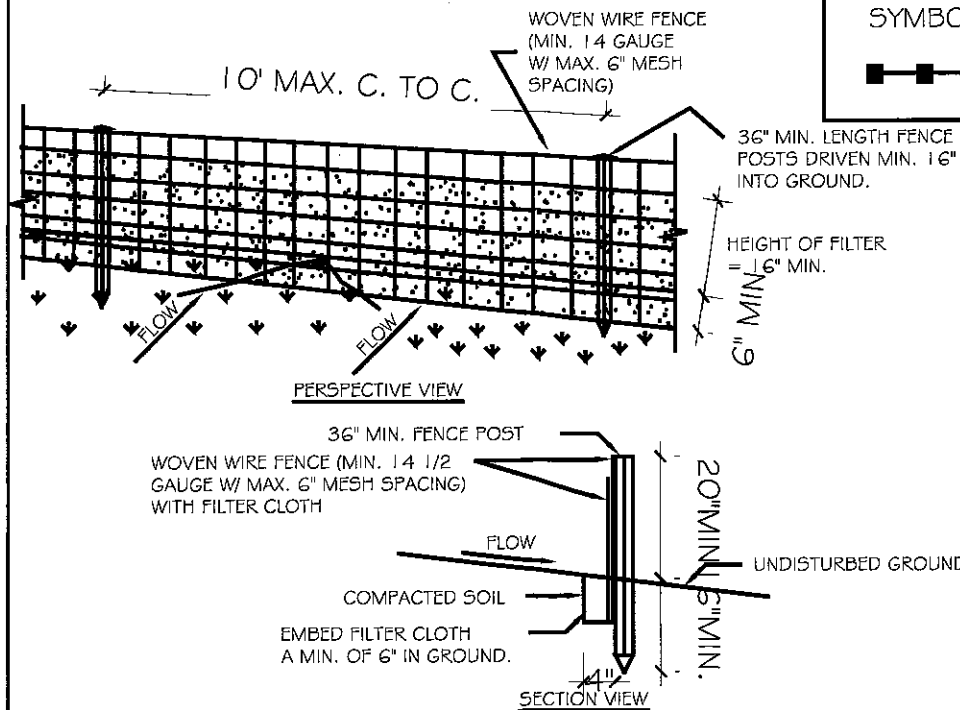
### CONSTRUCTION SPECIFICATIONS

1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

STRAW BALE DIKE

SYMBOL



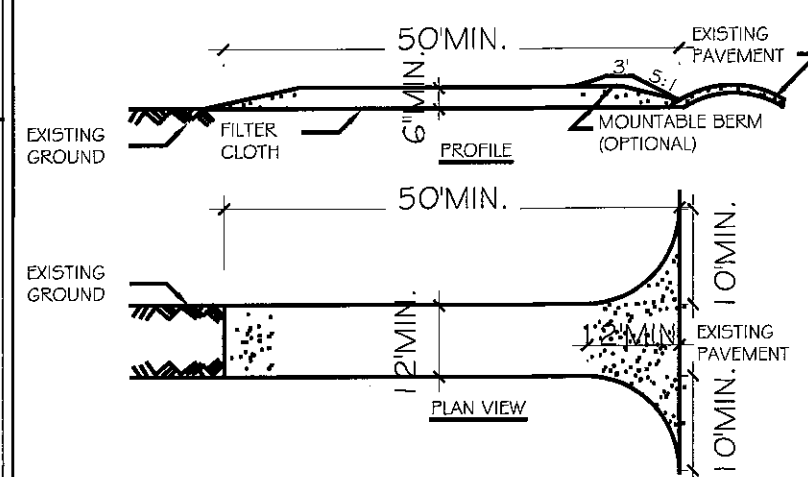
### CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

SILT FENCE

SYMBOL



### CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ACCESS SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

STABILIZED CONSTRUCTION ACCESS

**A** STRAW BALE  
A108 SCALE: N.T.S

**B** SILT FENCE  
A108 SCALE: N.T.S

**C** CONSTRUCTION ACCESS  
A108 SCALE: N.T.S

#### SEDIMENTATION AND EROSION NOTES

1. LAND DISTURBANCE SHALL BE KEPT TO A MINIMUM. PERMANENT STABILIZATION SHALL BE SCHEDULED AS SOON AS FINAL GRADES ARE ESTABLISHED.
2. ALL DISTURBED AREAS SHALL BE FINE GRADED AND SEEDED WITH AN APPROVED SEED MIXTURE COVER NEWLY SEEDED AREAS WITH MULCH HAY OR SALT HAY.
3. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE 2016 NYS STANDARDS AND SPECIFICATIONS FOR EROSIONS AND SEDIMENT CONTROL.
4. ALL CONTROL MEASURES SHALL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. CHECK AFTER EACH STORM EVENT
5. ADDITIONAL CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD, IF REQUIRED BY TOWN AUTHORITIES.
6. SEDIMENT DEPOSITS REMOVED FROM FILTER BARRIERS SHALL BE PLACED IN FILL AREAS OR SPREAD WHERE THERE IS PROPOSED VEGETATIVE COVER. ANY SEDIMENT DEPOSITS REMAINING AFTER THE FILTER BARRIER IS REMOVED SHALL BE FINE GRADED AND PLANTED ACCORDING TO PLAN.
7. THE SITE CONSTRUCTION CONTRACTOR IS ASSIGNED THE RESPONSIBILITY FOR THE 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 (AND/OR THE CONSERVATION COMMISSION) OF ANY TRANSFER OF THIS RESPONSIBILITY AND CONVEYING A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN IF THE TITLE TO THE LAND IS TRANSFERRED TO A NEW OWNER.

PLEASE NOTE THAT ALL DIMENSIONS MUST BE VERIFIED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.



30 COMMERCE DRIVE  
CARMEL, NEW YORK - (877) 543-4969

PLANS MEET 2020 RCNYS AND ENERGY CODES

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|          |  |             |
|----------|--|-------------|
| PROJECT  | DUKE<br>22 WHITLOCK LN RIDGEFIELD CT 06887 |             |
| DRAWING  | DETAILS                                    |             |
| SCALE    | DRAWN BY                                   | DRAWING NO. |
| AS NOTED | RL   | A108        |
| DATE     | CHECKED BY                                 |             |
| 04/06/21 |  |             |