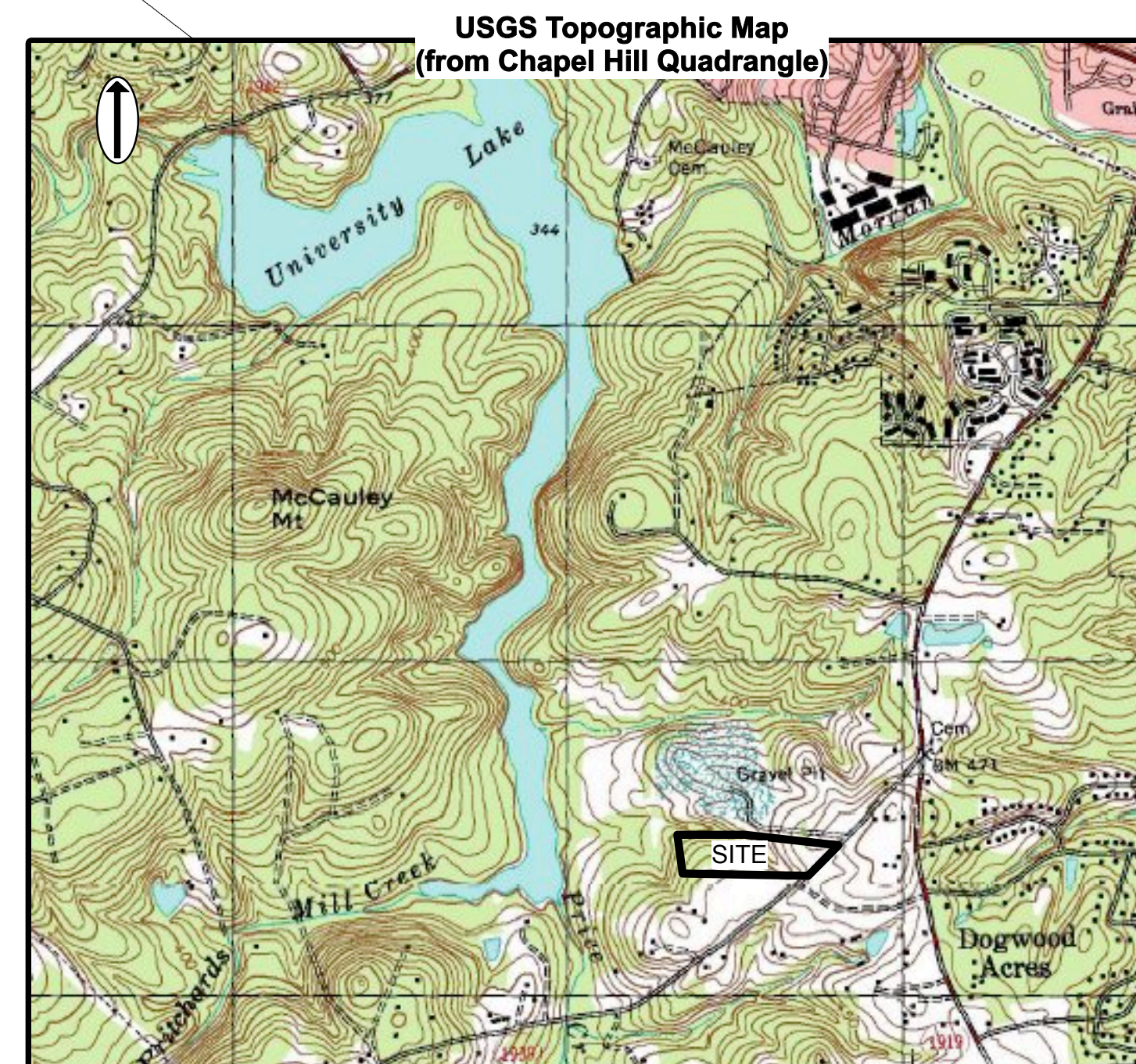
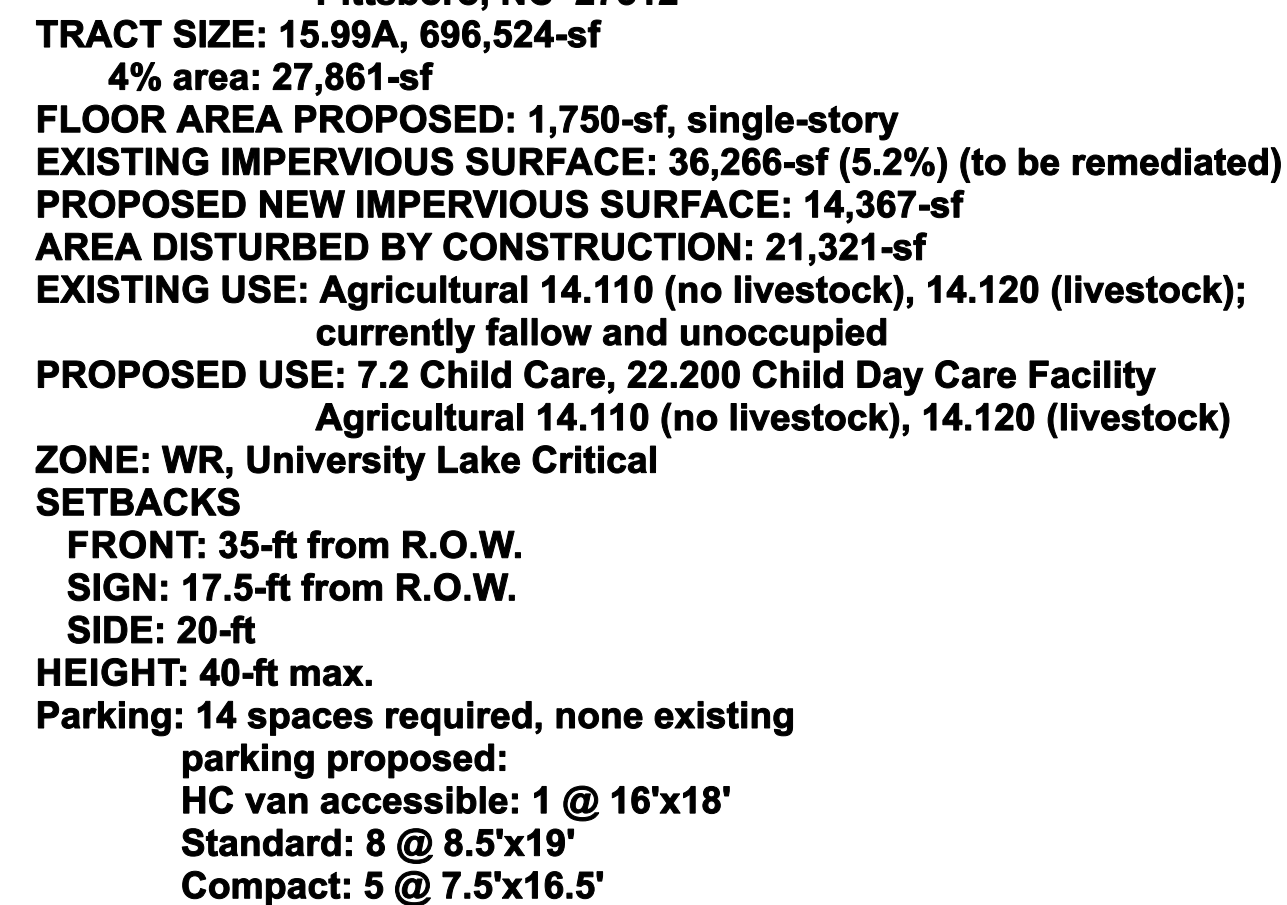
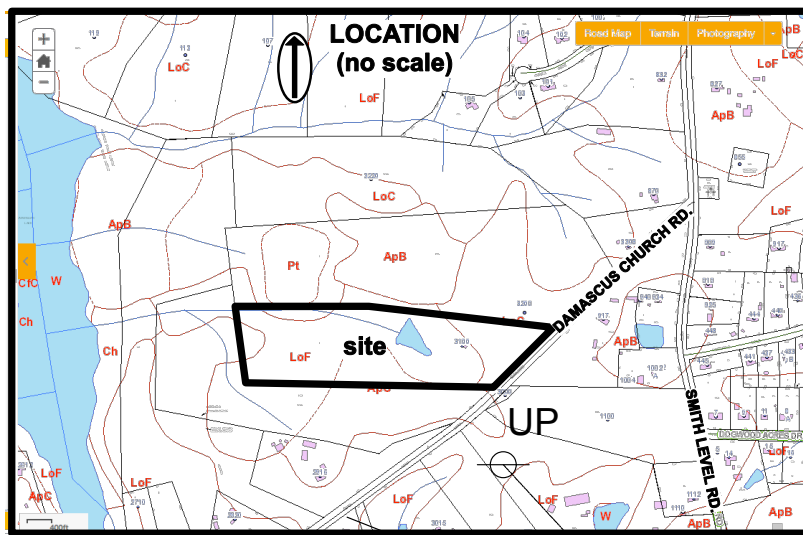


**3100 DAMASCUS CHURCH RD.
CHAPEL HILL, NC**



Cover



TIK LLC.
PIN: 9777-36-7019
DB 5020 PG 31
PLAT BOOK 107 PG. 120
ZONING: WR
USE: Agricultural - 14.110 (excluding livestock), 14.120 (livestock)
Quarrying - 14.300
single family detached - 1.110

LINE TABLE ALONG SOUTHERN 60' PRIVATE EASEMENT		
LINE	LENGTH	BEARING
L1	38.89	S45-37'35"W
L2	1061.85	N83-32'50"W
L3	538.08	N88-51'31"W
L4	150.00	N88-51'31"W

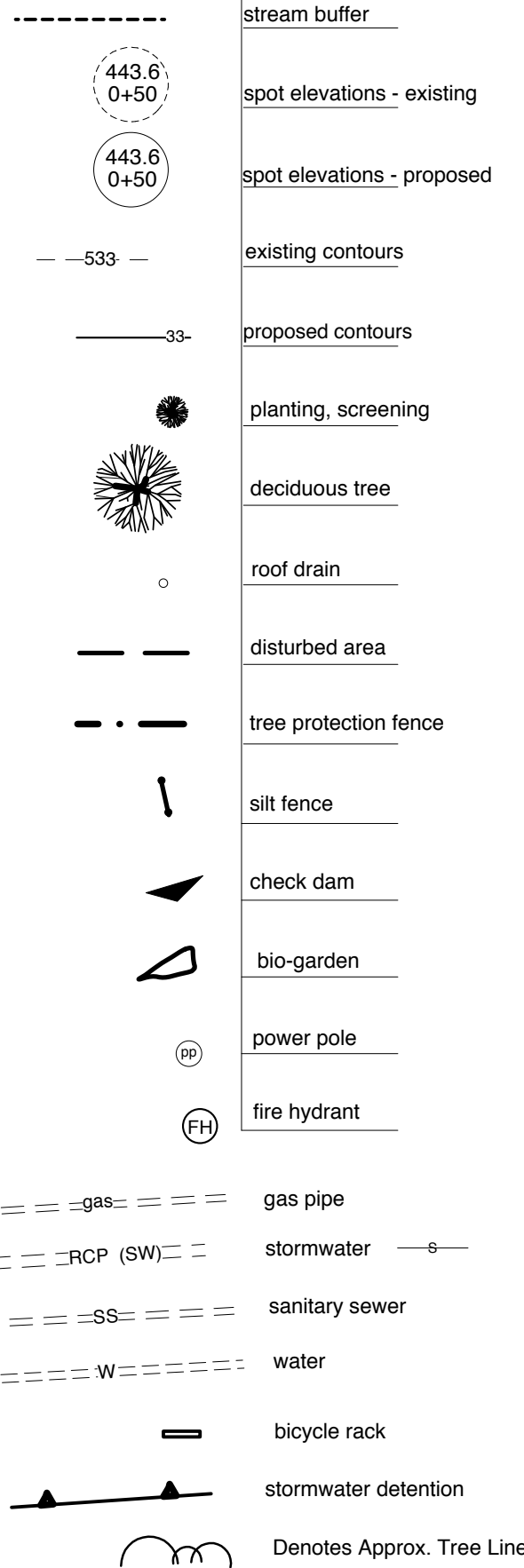
CURVE TABLE ALONG SOUTHERN 60' PRIVATE EASEMENT				
CURVE	LENGTH	RADIUS	CHORD	CHORD BEARING
C1	124.90	50.00	94.87	N70-25'25"W

NEW STABILIZATION TIMEFRAMES (Effective Aug. 3, 2011)		
SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
Perimeter dikes, swales, ditches, slopes	7 days	None
High Quality Water (HQW) Zones	7 days	None
Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
Slopes 3:1 or flatter	14 days	7 days for slopes greater than 50' in length.
All other areas with slopes flatter than 4:1	14 days	None, except for perimeters and HQW Zones.

25' 0 25' 50' 75'
Scale 1" = 50'

2 foot contour interval

LEGEND



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PRELIMINARY NOT FOR CONSTRUCTION

SGI Technical Services (C-2092)
200 North Greensboro Street Suite B-13A
Carrboro, NC 27510
phone: (919) 942-7612
email: sgit@earthlink.net

Project Name:
WILDFLOWER LEARNING COMMUNITY, Inc.
3100 Damascus Church Rd.
Chapel Hill, NC

CUP Application

Developer/Owner/Applicant:

President: Shelley Riselvato
6205-F8 Farrington Rd.
Chapel Hill, NC 27517
phone:

Drawing Title:

SITE PLAN

Revisions:

Number	Description	Date
submittal 1	initial submittal	
submittal 2		
submittal 3		

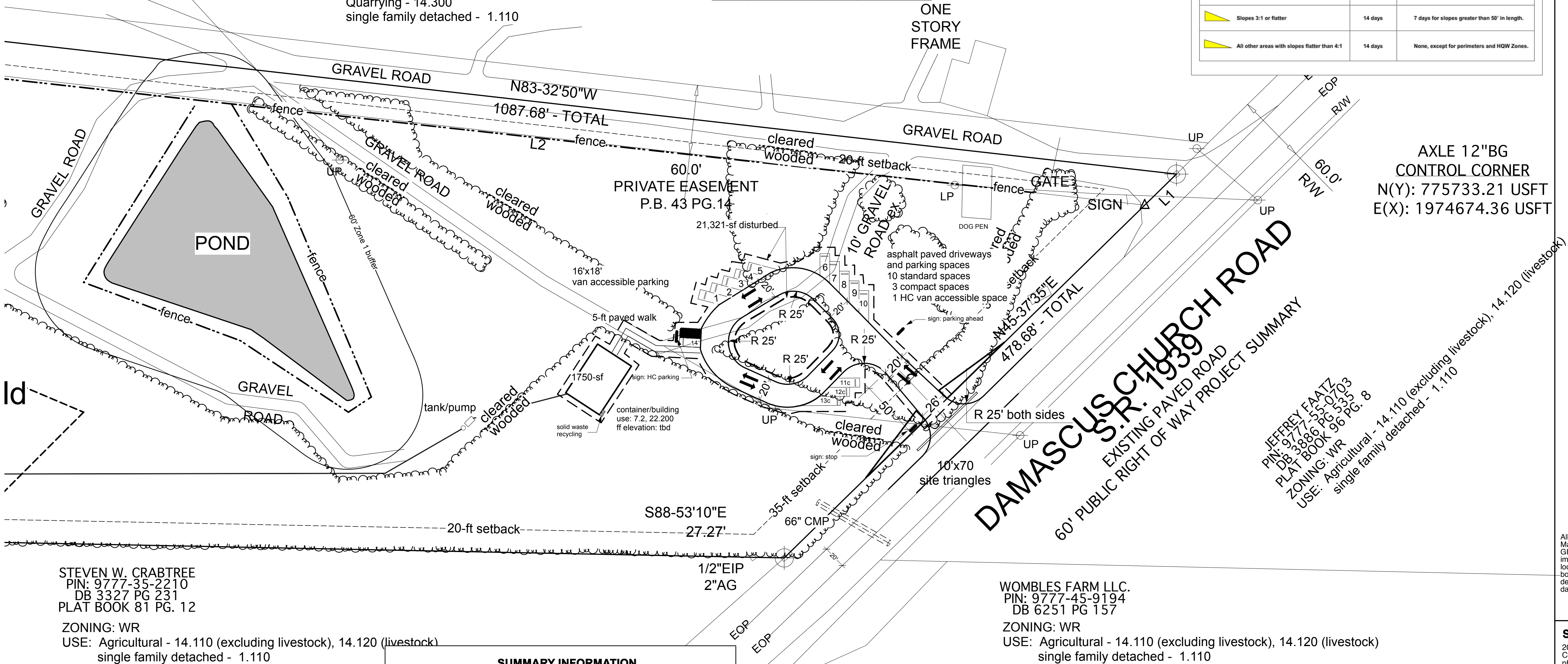
Drawn by: **SAA**

Checked by:

Date: 10 April 2018

Sheet _____ of _____
Scale: 1"=50'

SP-1



STEVEN W. CRABTREE
PIN: 9777-35-2210
DB 3327 PG 231
PLAT BOOK 81 PG. 12
ZONING: WR
USE: Agricultural - 14.110 (excluding livestock), 14.120 (livestock)
single family detached - 1.110

WOMBLES FARM LLC.
PIN: 9777-45-9194
DB 6251 PG 157
ZONING: WR
USE: Agricultural - 14.110 (excluding livestock), 14.120 (livestock)
single family detached - 1.110

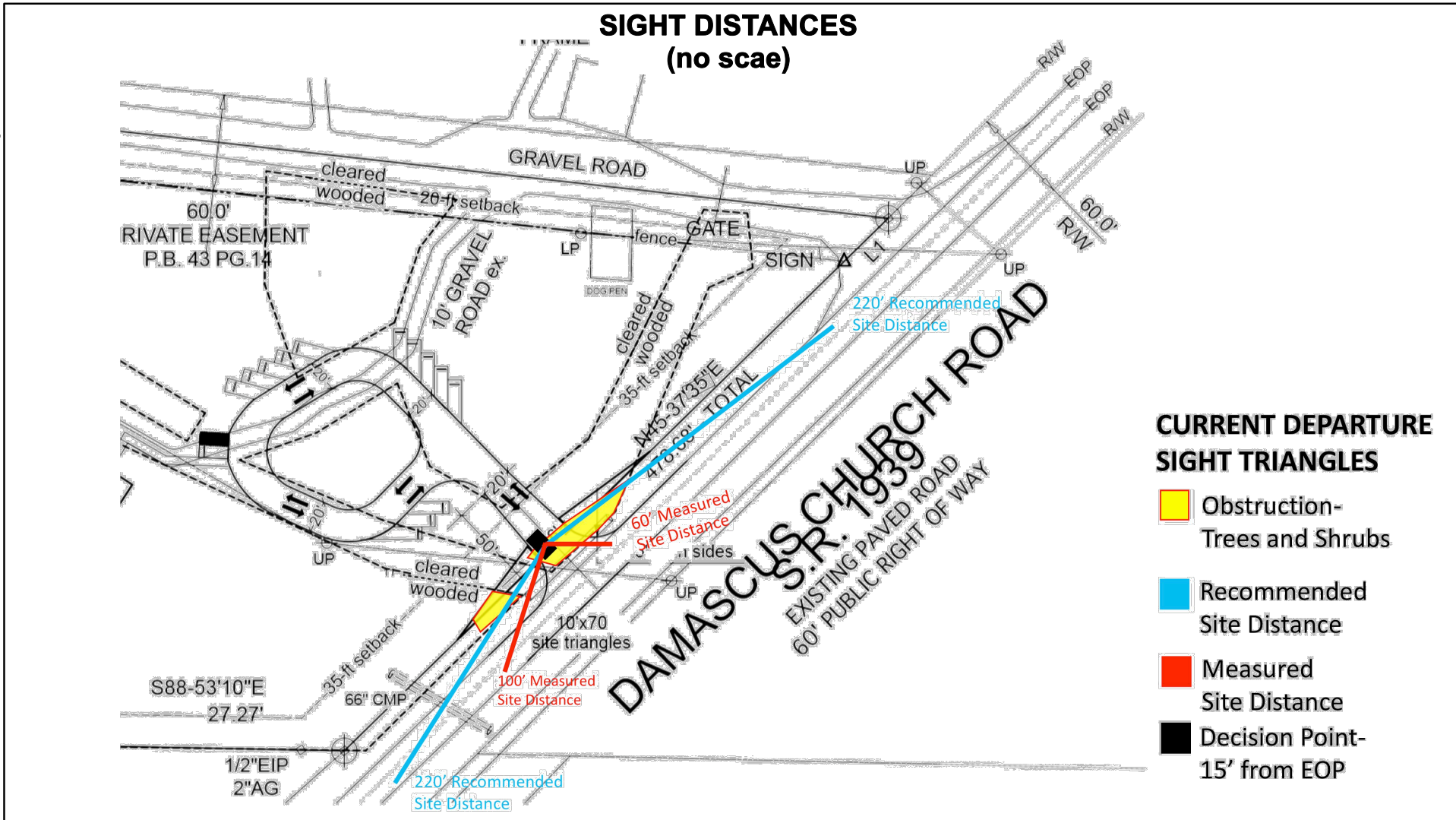
SUMMARY INFORMATION

NAME: Wildflowers LLC
PERMIT: CUP
DEVELOPER(s): Wildflower Learning Community
PIN: 9777-35-4538
ADDRESS: 3100 DAMASCUS CHURCH RD.
LAND OWNER: Merritt, Betty J
4121 Hwy 87N
Pittsboro, NC 27312
TRACT SIZE: 15.99A, 696,524-sf
4% area: 27,861-sf
FLOOR AREA PROPOSED: 1,750-sf, single-story
EXISTING IMPERVIOUS SURFACE: 36,266-sf (5.2%) (to be remediated)
PROPOSED NEW IMPERVIOUS SURFACE: 14,367-sf
AREA DISTURBED BY CONSTRUCTION: 21,321-sf
EXISTING USE: Agricultural 14.110 (no livestock), 14.120 (livestock); currently fallow and unoccupied
PROPOSED USE: 7.2 Child Care, 22,200 Child Day Care Facility, Agricultural 14.110 (no livestock), 14.120 (livestock)
ZONE: WR, University Lake Critical
SETBACKS
FRONT: 35-ft from R.O.W.
SIGN: 17.5-ft from R.O.W.
SIDE: 20-ft
HEIGHT: 40-ft max.
Parking: 14 spaces required, none existing
parking proposed:
HC van accessible: 1 @ 16'x18'
Standard: 8 @ 8.5'x19'
Compact: 5 @ 7.5'x16.5'

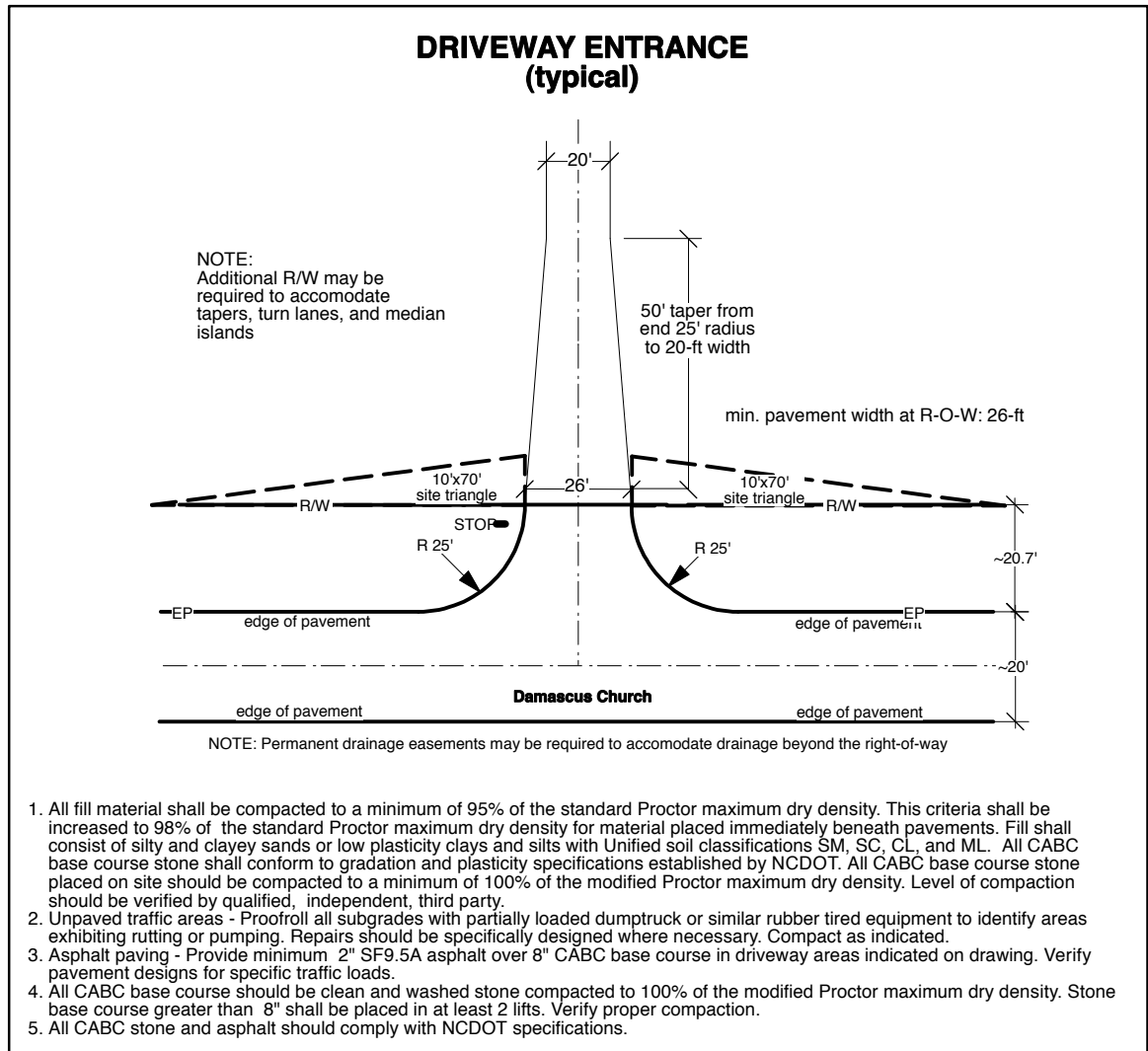
3/4"EIP 2"AG
CONTROL CORNER
N(Y): 775398.45 USFT
E(X): 1974332.21 USFT

Orange County Solid Waste

- By OC (Orange County) ordinance, clean wood waste, scrap metal and corrugated cardboard, all present in construction waste must be recycled.
- By OC ordinance, all haulers of construction waste must be properly licensed.
- Prior to any demolition or construction activity on the site, applicant will hold a pre-demolition, pre-construction conference that includes OC Solid Waste staff.
- Note: Trash pickup TBD.



To obtain adequate sight distances, overgrown shrub trimming and tree removals will be performed in both directions



- All fill material shall be compacted to a minimum of 95% of the standard Proctor maximum dry density. This criteria shall be increased to 98% of the standard Proctor maximum dry density for material placed immediately beneath pavements. Fill shall consist of silty and clayey sands or low plasticity clays and silts with Unified soil classifications SM, SC, CL, and ML. All CABC base course stone shall conform to gradation and plasticity specifications established by NC DOT. All CABC base course stone placed on site should be compacted to a minimum of 100% of the modified Proctor maximum dry density. Level of compaction should be verified by qualified, independent, third party.
- Unpaved traffic areas - Prior to all subgrades with partially loaded dumptruck or similar rubber tired equipment to identify areas exhibiting rutting or pumping. Repairs should be specifically designed where necessary. Compact as indicated.
- Asphalt paving - Provide minimum 2" SPB-5A asphalt over 6" CABC base course in driveway areas indicated on drawing. Verify pavement designs for specific traffic loads.
- All CABC base course should be clean and washed stone compacted to 100% of the modified Proctor maximum dry density. Stone base course greater than 18" shall be placed in at least 2 lifts. Verify proper compaction.
- All CABC stone and asphalt should comply with NC DOT specifications.

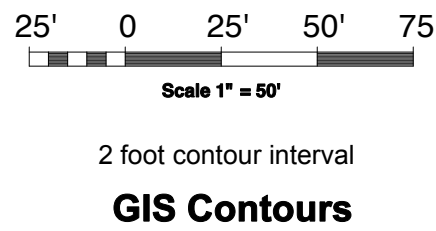
CONTACT the National "Call Before You Dig" 811 to have underground facilities located before beginning any excavation.

STORMWATER RUNOFF SUMMARY

Stormwater Summary - 15.99-ac site (696,524-sf)
disturbed area: 0.49-ac; (~21,321-sf)

1. impervious surfaces (ex. gravel driveways): 36,266-sf, 5% of total site
new impervious surface proposed: 14,367-sf
4% impervious limit: 27,861-sf, existing impervious to be remediated
2. pre-development 25-yr peak flow (15.99-ac.): 43.6-cfs (C=0.43)
3. post-development 25-yr peak flow (15.99-ac.): 45.0-cfs (C=0.44)
4. Stormwater detention/retention/treatment: None required

NOTE: CONTOURS FROM COUNTY GIS MAP.
If contours are identified as from GIS map, actual conditions may differ and, field adjustments may be required. Elevations should be confirmed prior to beginning field activities.



LEGEND

stream buffer

443.6

0+50

spot elevations - existing

443.6

0+50

---533---

existing contours

---33---

proposed contoursplanting, screeningdeciduous treeroof drain

disturbed area

--- --

tree protection fenceslit fencecheck dambio-garden

(B)

power pole

(FH)

fire hydrant

== gas ==

gas pipe

== RCP (SW) ==

stormwater

== SS ==

sanitary sewer

== W ==

water

==

bicycle rackstormwater detentionDenotes Approx. Tree Line

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Project Name:
WILDFLOWER LEARNING COMMUNITY, Inc.
3100 Damascus Church Rd.
Chapel Hill, NC

CUP Application

Developer/Owner/Applicant:

President: **Shelley Riselvato**
6205-F8 Farrington Rd.
Chapel Hill, NC 27517
phone:

Drawing Title:

GRADING, DRAINAGE and EROSION CONTROL

Revisions:

Number	Description	Date
submittal 1	initial submittal	
submittal 2		
submittal 3		

Drawn by:

SAA

Checked by:

Sheet

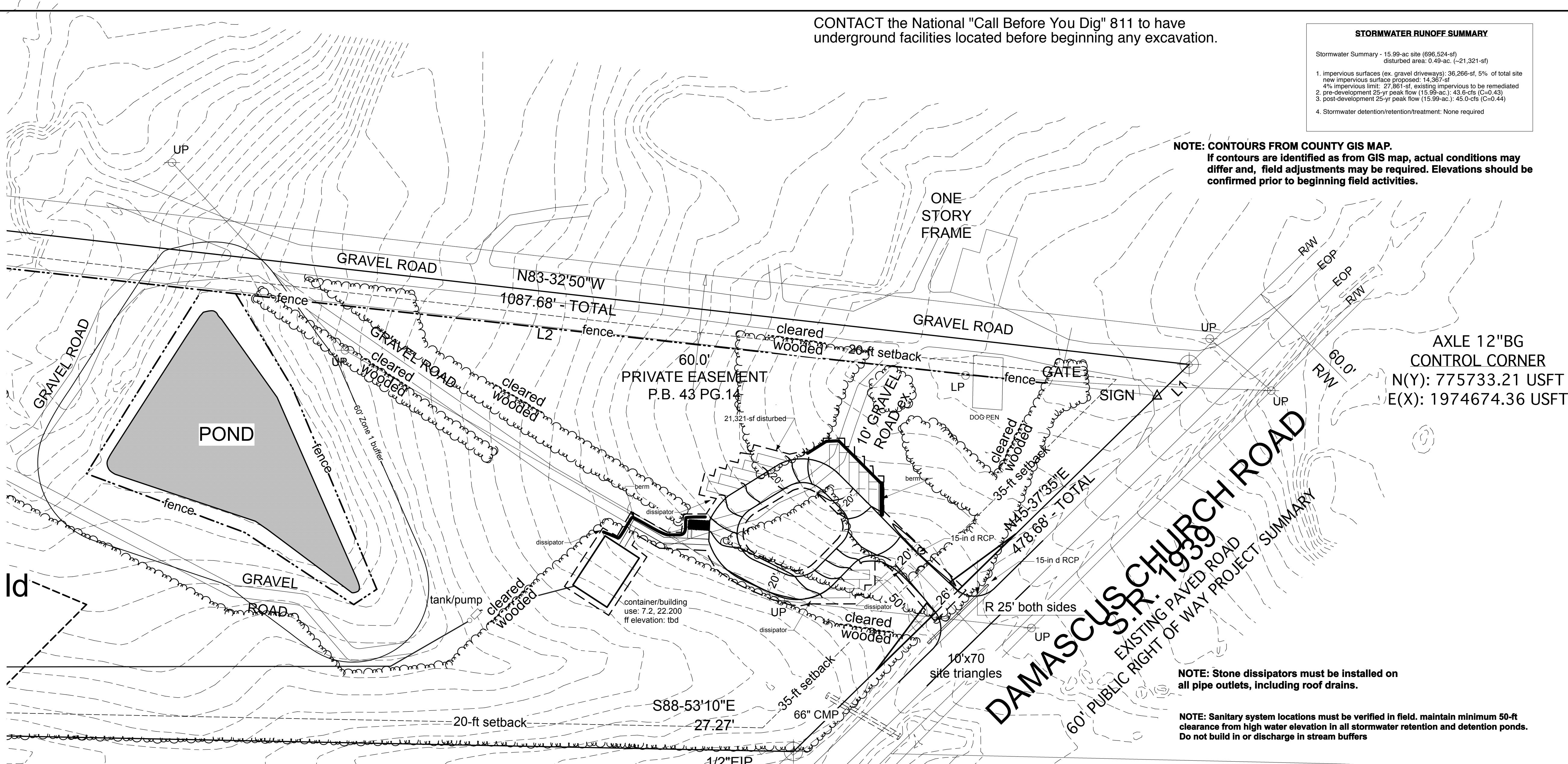
Date:

10 April 2018

Scale:

1"=50'

C-1



SUMMARY

NAME: Wildflowers LLC
PERMIT: CUP
DEVELOPER(s): Wildflower Learning Community
PIN: 9777-35-4538
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LAND OWNER: Merritt, Betty J.
4121 Hwy 87N
Pittsboro, NC 27312
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(to be remediated)
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AREA DISTURBED BY CONSTRUCTION: 21,321-sf

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currently fallow and unoccupied
PROPOSED USE: 7.2 Child Care, 22.200 Child Day Care Facility
Agricultural 14.110 (no livestock), 14.120 (livestock)
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SETBACKS
FRONT: 35-ft from R.O.W.
SIGN: 17.5-ft from R.O.W.
SIDE: 20-ft
HEIGHT: 40-ft max.
Parking: 14 spaces required, none existing
parking proposed:
HC van accessible: 1 @ 16'x18'
Standard: 8 @ 8.5'x19'
Compact: 5 @ 7.5'x16.5'

TOWN OF CARRBORO REQUIREMENTS:

- Upon completion of project, a certified as-built drawing of the project, including stormwater measures, shall be furnished to the TOC by a registered land surveyor. The exact boundaries of all stormwater management BMPs must be shown. When applicable, the following statement must be included: "This plat contains a stormwater management measure that must be maintained in accordance with the recorded Covenant or Operations and Maintenance Agreement."
- Stormwater drainage easements, where required, must be shown on the final plan sheets. Access easements, if required, should be shown. Stormwater easements and the facilities they protect are considered private with owner having sole responsibility for maintenance and operations.
- Correct installation and operation of the stormwater quantity and quality control devices must be certified in writing by a Professional Engineer as constructed in accordance with the approved Stormwater Management Plan.
- An O&M plan (operation and maintenance plan) for the stormwater devices must be executed by the owner in accordance with TOC requirements.

EROSION and SEDIMENT CONTROLS

- Owner/developer must control erosion in accordance with North Carolina General Statutes. Land disturbing activities shall be conducted in accordance with requirements of NCDENR Land Quality Division and the Orange County Erosion Control Authority. An Erosion Control Plan approved by Orange County will be required before beginning land disturbing activities.
- Planting and stabilization information, including times for maximum unstabilized exposure, are shown on sheets SP-1 and C-1 to C-3.

TRAFFIC CONTROLS

Contractor shall furnish appropriate barricades and traffic control devices, conforming to NCDOT Manual on Uniform Traffic Control Devices as required by local permitting authority.

STORMWATER RUNOFF and SITE WORK

NOTE: Energy dissipators shall be installed at all pipe outlets including roof drains; see sheets C-1 and C-3 for locations and details.

NOTE: All surfaces must be stabilized after completion of land disturbing activities within period indicated in table on sheets SP-1, C-1 and C-4. Unless otherwise indicated, stabilize all disturbed surfaces using seasonally appropriate grass with jute matting, poly-net or other approved material nailed in place per manufacturer instructions.

NOTE: Contractor shall not store materials within street right-of-way or under protected trees. Daily, street surfaces shall be cleaned of debris and construction related materials.

NOTE: All fill must be pre-approved. It shall be placed in 10" lifts and compacted to the following percentages of Modified Proctor Dry Densities: roadbeds and pavements - upper 18" - 100%, remainder - 98%.

GRADING and DRAINAGE

- All surface slopes around the perimeter of foundations/footings and other structures shall drain away from structures at minimum slope 20:1 for first 10-ft.
- Unless otherwise indicated, graded slopes shall not exceed 2.5:1 (h:v) and shall be stabilized within designated period(s) using seasonally appropriate grass, other designated plants, or alternative approved by owner's architect/engineer.
- Graded slopes steeper than 2.5:1 (h:v) shall be stabilized in manner acceptable to owner/engineer/architect. Structural fill materials, compaction and grading for structures are to be specified by others. Slopes steeper than 2:1 are not permitted.
- Location, design, and construction of septic fields and utilities to be by others. Note adherence to clearances between detention/retention ponds and drinking water wells and/or septic systems.
- Retaining walls will be by others.
- Elevations (finished floor, site grades, pipe inverts, tops-of walls, etc. shown on drawings are for estimation purposes only. Prior to initiating grading/construction, site elevations shall be verified by contractor. Discrepancies shall be brought to attention of architect and engineer.

STORMWATER PIPING INSTALLATION

- All piping and ancillary equipment shall be purchased, stored, moved, installed and tested in accordance with local regulations, the NC Building, Fire, Plumbing, and Mechanical Codes, and Manufacturer's specifications.
- Installation and construction activities shall comply with OSHA requirements.
- Manufacturer's instructions for loading/unloading, installation, storage and maintenance are assumed part of this document.
- All RCP drainage piping shall be rated class II or stronger with minimum cover beneath vehicle areas of one-foot to top of subgrade. All PVC pipe shall be minimum Sch 40. CMP shall be smooth walled. HDPE shall be HIQ or eq. PVC, CMP and HDPE shall be stored, installed and used in accordance with manufacturers' instructions.
- Minimum gravity pipe slope for piping is 0.5%. Other drainage pipe installations are subject to the minimum slope and cover requirements of the building code and local authority.

SOLID WASTE

- Clean wood waste, scrap metal and corrugated cardboard, when present in construction waste should be recycled.
- All haulers of construction waste should be properly licensed.
- Prior to any demolition or construction activity on the site, applicant will hold a pre-demolition, pre-construction conference that includes Solid Waste staff.

SOIL EXPORT/DISPOSAL

All soil removed from site shall be re-used or disposed of in regulatory approved manner.

SITE UTILITIES

- Installation of 3-phase electrical service by others (underground) - burial locations must be approved by owner/engineer
- Potable water lateral from well to be installed by others - pending approval, pipe burial locations must be approved by owner/engineer.

CONTACT the National "Call Before You Dig" 811 to have underground facilities located before beginning any excavation.

Site Description

1. Name: Wildflower Learning Community
2. Address: 3100 Damascus Church Road
Chapel Hill, NC
3. Parcel ID: 9777-35-4538
4. Area: 696,524-sf (15.99-ac.)
4. Application: CUP (Conditional Use Permit)
5. Zoning: WR, University Lake Critical
6. Existing Use: agricultural 14, 110, 14, 120 - currently fallow
6. Proposed Use: child car, pre-school 7.2, 22, 200
7. Impervious surface: pre-development 36,266-sf (to be remediated)
post-development +14,367-sf proposed
8. Stormwater Discharge: pre-development Qp(25)=43.6-cfs
post-development Qp(25)=45.0-cfs

Orange County Solid Waste

1. By OC (Orange County) ordinance, clean wood waste, scrap metal and corrugated cardboard, all present in construction waste must be recycled.
2. By OC ordinance, all haulers of construction waste must be properly licensed.
3. Prior to any demolition or construction activity on the site, applicant will hold a pre-demolition, pre-construction conference that includes OC Solid Waste staff.
4. Note: Trash pickup will be by private hauler.

Soil Export/Disposal

Should it become necessary, soil removed from site must be transported to pre-approved facility

50' 0 50' 100' 150'

Scale 1" = 100'

2 foot contour interval

LEGEND

- stream buffer
- 443.6 0+50 spot elevations - existing
- 443.6 0+50 spot elevations - proposed
- 533--- existing contours
- 33--- proposed contours
- planting, screening
- deciduous tree
- roof drain
- disturbed area
- tree protection fence
- silt fence
- check dam
- bio-garden
- power pole
- fire hydrant
- gas pipe
- RCP (SW) stormwater
- SS sanitary sewer
- W water
- bicycle rack
- stormwater detention
- Denotes Approx. Tree Line

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President: Shelley Riselvato
6205-F8 Farrington Rd.
Chapel Hill, NC 27517

Drawing Title:

UTILITIES and LIGHTING

Revisions:

Number	Description	Date
submittal 1	initial submittal	April 2018
submittal 2		
submittal 3		

Drawn by: SAA

Checked by:

Sheet

of

Date: 10 April 2018

Scale:

1"=100'

C-2

Town of Carrboro DPW

Developer/contractor shall maintain designated Construction Entrance to prevent and minimize the transportation of mud, stone and other construction related materials from being tracked off-site and onto street surfaces. All materials deposited upon referenced surfaces shall be removed immediately. Periodic street sweeping may be required.

Erosion and Sediment Controls

1. Owner/developer must control erosion in accordance with NC General Statutes. Land disturbing activities shall be conducted in accordance with requirements of NC DENR Land Quality Division and the Orange County Erosion Control Authority. An erosion control permit from OCEC department is required in the watershed area when surface area disturbance exceeds 10,000-sf.
2. Construction entrance(s) shall be constructed and silt fences installed as shown. Where applicable, future bio-garden areas should be protected by silt fences during construction activities unless designated as a temporary sediment control device. Bio-garden should be constructed after completion of sediment producing activities that could impact their future performance.

Power Lines and Poles

Construction activities near power poles and guide wires shall be performed in accordance with guidelines and specifications of Duke Power or other electrical utility provider. Installation, removal and relocation of power lines shall be coordinated with provider.

SEWER & WATER AUTHORITY

1. Please be advised that approval of this project, if any, is for compliance with certain policies, Standards and Specifications only. All other matters pertaining to this project are the responsibility of the owner or design engineer. The issuance of these plans does not preclude the responsibility of the developer, project engineer, contractor, or other agents or parties acting on their behalf, from full compliance with current Standards, Specifications and Procedures, or from complying with any and all statutes, rules regulations and ordinances, which may be imposed by other government agencies that may have jurisdiction. Violations may result in the approval being rescinded.
2. Sewer Use Ordinance - Discharge from this project must be in compliance with the local Sewer Use Ordinance. A grease interceptor shall be provided when one is necessary for the proper handling of wastewater containing excessive amounts of grease. All interception units must be of the type and capacity which is certified by the project engineer as meeting the requirements of local ordinances or the State of NC Building Code.

Site Utility Notes

1. Existing overhead power lines that will be re-used will be re-located underground where feasible
2. Existing overhead power lines that will not be re-used will be removed as feasible.
3. Where applicable, existing sewer/water service laterals and/or septic tanks will be removed.
4. Locations of sewer and water service laterals can be adjusted to accommodate site conditions.
5. A minimum spacing of 5-ft must be maintained between sewer and water service laterals. Provide min. 18-in vertical clearance between storm/roof drain piping and sewer/water services
6. Sewer manholes must have 0.2' fall from invert-in to invert-out.

Service Connections (sanitary sewer)

1. Each building served must have a separate service connection. No common laterals will be allowed. Note that laterals must be inspected by the Town of Carrboro Inspections Department prior to burial. All stub outs must be plugged to prevent infiltration.
2. Service lateral connections shall be 4" diameter and constructed of approved PVC or ASTM A 746 Ductile Iron Pipe with compatible fittings and/or as specified. Minimum slope for 4" gravity drained pipe pipe shall be 1/4" per foot. Clean-outs shall be located at public R-O-W or easement line, straddling the easement, at all directional changes and at locations and intervals specified by NC Plumbing and Mechanical Code
3. Green marking tape at least 2" wide with "sewer" marked on it should be placed 18" to 24" below final grade.
4. Locations of service laterals may be adjusted based upon field conditions; notify owner or owner's representative of all modifications to plan. The contractor will be responsible for any and all verification and/or relocation required as a result of changes in grades after sewer installation.
5. All pipe, materials and ancillary equipment shall be in accordance with NC Plumbing and Mechanical Code and local requirements. Loading/unloading, storage, handling, installation and operation shall be in accordance with NC Plumbing and Mechanical Code and manufacturer's instructions.
6. All areas disturbed by utility installation shall be restored to original condition as agreed upon by owner and Town.
7. Surfaces should be graded to slope away from manhole covers and buildings.

General Utilities:

1. Upon completion of project, information necessary to complete as-built drawings shall be provided to Project Engineer.
2. Contractor is responsible for obtaining all permits and for coordinating project with Town of Carrboro.
3. Water lines, tanks, manholes and sewer lines shall be installed and tested in accordance with current versions of the State of North Carolina Plumbing Code, regulations of the North Carolina Department of Environment, Health and Natural Resources and local ordinances.
4. Contractor shall be responsible for compliance with OSHA regulations and labor practices, especially as regards worker safety in excavations. Contractor is responsible for caving and all damages resulting thereof. All work shall conform to the best practices of the trade and standards set forth in the specifications and regulations cited.
5. Contractor shall conduct field work in manner to minimize road obstructions. All work in roadway shall be coordinated with Department of Public Works. Fire hydrants, if any, must remain accessible. All utility construction or modification performed within the public right-of-way will require an encroachment agreement with the governing authority. All services shall be flush with the finished grade.
6. All elevations and field conditions should be verified by contractor prior to beginning project. Discrepancies should be brought to the attention of owner/architect/engineer. All design changes must be pre-approved. Contractor shall identify and locate existing subgrade utilities and structures prior to beginning excavation. Contractor will be responsible for repairs to utilities or structures damaged as a result of field activities.
7. An authorized Town representatives must inspect, review, and approve all materials for sewer lines and appurtenances prior to installation. A pre-construction conference with Town must be held prior to commencement of project.
8. Pipe and materials shall be handled, unloaded, stored and installed per manufacturer's instructions. If there is any conflict between manufacturer's recommendations and Code specifications, the Code rules shall apply unless agreed upon between contractor and TOC representative. This shall not be interpreted as releasing contractor from specific minimum requirements established by manufacturer.
9. Contractor is responsible for establishing correct line and grade.
10. When directed by the Project Engineer, or the Town, unsuitable material shall be replaced to a suitable depth and width.
11. Pipe shall not be placed in water. Removal and proper disposal of water in trenches shall be the responsibility of contractor.
12. All rock shall be excavated to a minimum depth of 6" below the barrel of the pipe. At least 6" clearance shall be provided on each side of pipe for the full depth of the excavation. #67 washed stone shall be placed in all areas where rock has been excavated.
13. Pipe shall be placed per Code instructions directly upon stone bedding. In no case shall pipe be brought to grade by blocking under the pipe barrel. Pipe shall be uniformly supported along its entire length. After it has been brought to grade, earth fill shall be placed carefully and tamped to hold pipe in position.

TOC SPECIFICATIONS

1. Utilities must be installed by NC-licensed utility contractor.
5. Existing service lines must be disconnected from common service laterals
6. Construction drawings must be submitted to TOC for approval.

OWASA Approvals - Please be advised that OWASA approval of this project is for compliance with OWASA policies, standards and Specifications only. All other matters pertaining to this project are the responsibility of the design engineer. The issuance of this letter does not preclude the developer, project engineer, contractor, or other agents or parties acting on their behalf, from full compliance with OWASA current Standards, Specifications and Procedures, or from complying with any and all statutes, rules regulations and ordinances, which may be imposed by other government agencies that may have jurisdiction. Violations will result in the OWASA approval being rescinded.

Sewer Use Ordinance - Discharge from this project must be in compliance with the OWASA Sewer Use Ordinance. A grease interceptor shall be provided when in the opinion of OWASA it is necessary for the proper handling of wastewater containing excessive amounts of grease. All interception units must be of the type and capacity which is certified by the project engineer as meeting the requirements of OWASA.

1

C-3

TYPICAL CONCRETE SIDEWALK
(no scale)

NOTES:
1. All concrete shall be minimum 3000 psi
2. All sidewalks shall be constructed with tooled 1/4-inch edge radius
3. All sidewalks shall have broom finish
4. Increase pavement thickness to 6-in at all driveway crossings
5. Compact subgrade to 100% ASHTO T99
6. Pavement width shall be 5-ft except where indicated otherwise
7. Expansion joints shall be provided at 30-ft intervals, either side of driveway connections and permanent structures.
8. Control joints shall be provided at 5-foot intervals unless indicated otherwise

2

C-3

PARKING SPACE AYOUT
not to scale

Appendix D-3: ALTERNATE PARKING SPACE TREATMENTS

3

C-3

PARKING STOP
(no scale)

4

C-3

SIGNS at ACCESSIBLE SPACES
R7-8, R7-8P (no scale)

5

C-3

6

C-3

7

C-3

8

C-3

9

C-3

10

C-3

11

C-3

12

C-3

13

C-3

14

C-3

15

C-3

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DRIVEWAY PAVEMENT REPAIRS
(no scale)

Contractor shall be responsible for pavement restoration in accordance with pavement repair specifications

ASPHALT PAVEMENT REPAIRS

1. Asphalt cut shall be sharp and neat. Asphalt pavement and subgrade shall be restored to original elevation and condition.
2. Subgrade and fill below it must be replaced with suitable, compactible material placed and compacted in maximum 8 inch lifts. Upper 6 inches of subgrade shall be compacted to 100% ASHTO T99. Fill that is to be loose, or soft, or composed of unsuitable materials must be replaced.
3. Base course shall consist of 8 inch thickness of NCDOT Type ABC crushed stone. Stone shall be free of foreign materials and shall be handled and placed in 4 inch lifts, watered if necessary, and compacted to 100% ASHTO T99 specifications. Pavement or pavement repairs must be acceptable to Mall management.
4. The pavement surface shall meet NCDOT specifications for Type I-2 asphalt or current NCDOT equivalent designation. The asphalt shall be handled and placed in 2 @ 1.5 inch lifts in accordance with NCDOT guidelines.

ASPHALT PAVEMENT PATCH
(no scale)

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ASPHALT PAVEMENT PATCH
(no scale)

NOTE:
Prior to laying asphalt, contractor shall prime;
coat application shall conform to NC DOT Section 600

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PAVEMENT CONSTRUCTION

1. The developer shall construct streets or street repairs in accordance with the Town of Carrboro land use requirements and construction standards.
2. Grading and Compaction - Subgrade shall be compacted to 100% ASSHTO T99 for depth of 6-in, and then shall be proofrolled in the presence of an engineer. Places found to be loose, soft, or composed of unsuitable materials must be excavated and refilled with suitable material. All embankments and fills shall be made in one-foot horizontal lifts of suitable material. The fill shall be rolled with a sheepfoot roller after each lift, followed by a wheel roller, each weighing not less than eight tons.
3. Street Base - Base course shall be generally 8-in thick, unless otherwise directed and shall be crushed stone conforming to NCDOT type ABC. The stone base course shall be deployed in 4-in layers, watered as necessary and compacted to 100% ASSHTO T99. Contractor shall be responsible for keeping the stone free of contamination by clay or foreign materials. Handling and placement shall be in accordance with NCDOT specifications.
4. Street Surfaces - The asphalt surface course shall meet NCDOT type specifications for Type I-2 asphalt or current equivalent. The asphalt shall be placed in two 1.5-in layers and shall be handled and placed in accordance with NCDOT specifications.
5. When applicable, Public Street Connections and Extensions are subject to the following inspections:
a. clearing limits and tree protection fencing prior to tree removal and site grading
b. erosion control devices
c. staking for grade and alignment controls of proposed infrastructure improvements
d. storm drainage construction
e. water and sewer improvements (OWASA); improvements have to be completed and approved by OWASA
f. inspect, review compaction test and proof roll of street soil sub-grade for approval of placement of stone base (developer/contractor to provide fully loaded tandem truck grossing 30 tons for proof roll inspection). Developer is responsible for coordination and costs associated with third-party density testing of soil, stone and asphalt.
g. inspect, review compaction test and proof roll of street stone base course prior to approval for asphalt placement
h. sidewalk construction - form inspection prior to placement

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Outlet Energy Dissipators
(typical-no scale)

alt. Roof drains, bio-garden outlets and drain into bio-garden:
1. width at pipe outlet=3 x pipe d
2. length beyond end of pipe=6-ft min.
3. width at end=4-ft min.
4. thickness=1.5 x max. aggregate size, (9" min.)
5. opt. use Class A or Rougemont No. 39 stone underlain by filter fabric

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NCDOT DRIVEWAY PIPE
(no scale)

GENERAL NOTES:
ALL DIMENSIONS GIVEN ARE FOR MINIMUM CONDITIONS. PROPER CONSTRUCTION AND MAINTENANCE MUST BE USED IN DETERMINING JOINT LOCATIONS, WIDTHS, AND PIPE LENGTHS.
FACTORS SUCH AS VEHICLE TURNING RADIUS, TRAFFIC VOLUMES, DRIVEWAY DEPTH, OFFSET DISTANCE OF PIPE FROM END OF PAVEMENT, PAVEMENT TYPE, AND ROAD SPEED SHOULD BE CONSIDERED IN DETERMINING JOINT LOCATIONS.
NOTE:
1. THESE AREAS ARE TO BE USED TO BLEND THE INTERSECTING SLOPES TO THE PROPOSED DESIGN.

PRELIMINARY NOT FOR CONSTRUCTION

SGI Technical Services (C-2092)

200 North Greensboro Street Suite B-13A
Carrboro, NC 27510
phone: (919) 942-7612
email: sgtl@earthlink.net

Project Name:

WILDFLOWER LEARNING COMMUNITY, Inc.
3100 Damascus Church Rd.
Chapel Hill, NC

CUP Application

Developer/Owner/Applicant:

WILDFLOWER LEARNING COMMUNITY, Inc.
President: Shelley Riselvato
6205-F8 Farrington Rd.
Chapel Hill, NC 27517

Drawing Title:

DETAILS

Revisions:

Number	Description	Date
submittal 1	initial submittal	April 2018
submittal 2		
submittal 3		

Drawn by:

SAA

Checked by:

Date:

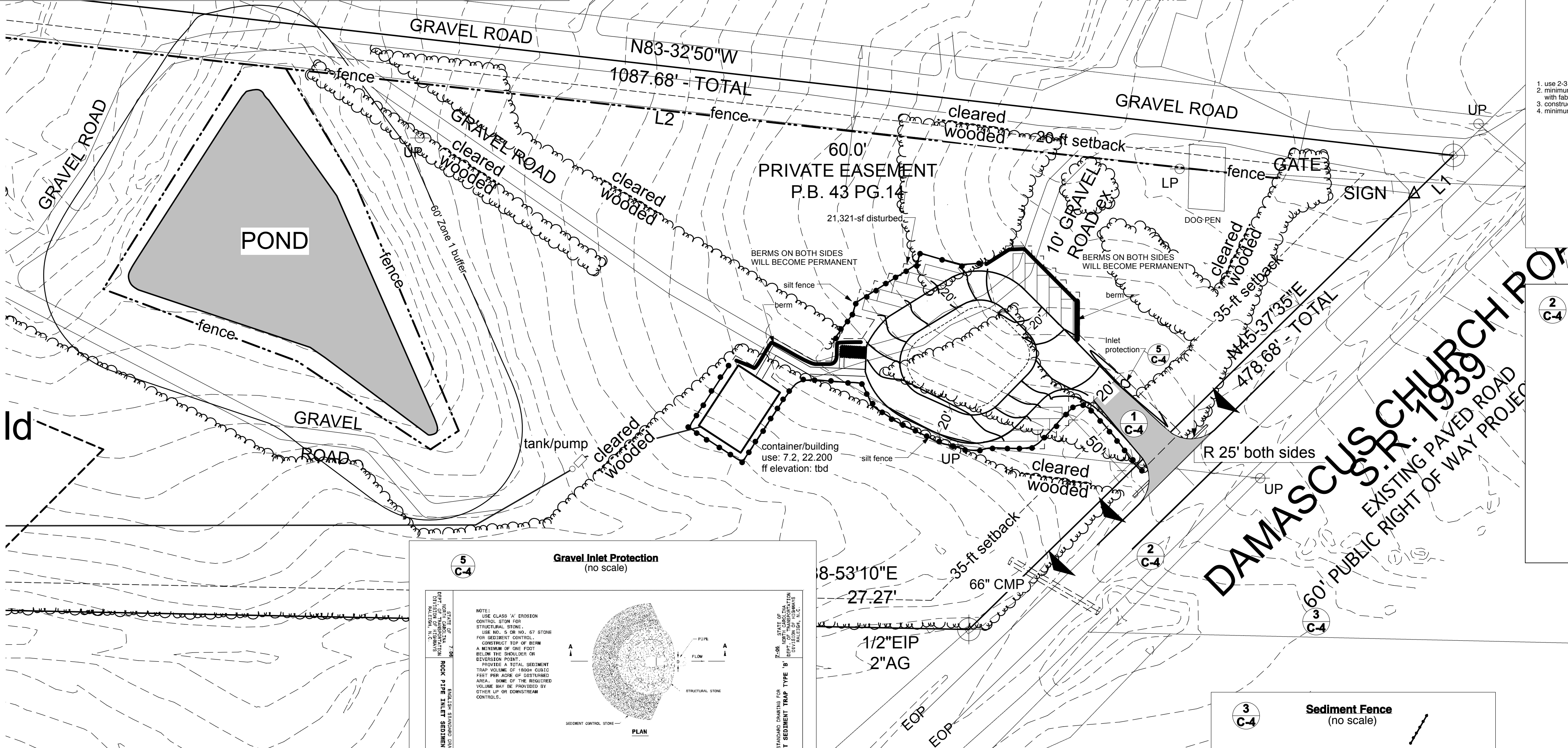
10 April 2018

Scale:

1"=100'

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NEW STABILIZATION TIMEFRAMES (Effective Aug. 3, 2011)		
SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
Perimeter dikes, swales, ditches, slopes	7 days	None
High Quality Water (HQW) Zones	7 days	None
Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
Slopes 3:1 or flatter	14 days	7 days for slopes greater than 50' in length.
All other areas with slopes flatter than 4:1	14 days	None, except for perimeters and HQW Zones.



CONSTRUCTION SEQUENCE

1. Prior to beginning field activities, an on-site meeting will be arranged that includes a representative of the Orange County Erosion Control office, the grading contractor, the demolition contractor (where applicable), and all parties involved in land disturbing activities.
2. Clear only as necessary for installation of on site controls: install construction entrances, perimeter silt fences, drainage pipes and diversion swales with inlet protection and/or check dams. Install tree protection fences.
3. Begin interior clearing and grubbing; install interior sediment controls, diversions, swale and sediment trap where applicable.
4. Begin site grading activities - driveway installation - begin drainage system installation.
5. Rough grade site, install sanitary devices; prep foundation
6. Perform fine grading, pave driveways, temporarily stabilize disturbed areas
7. Building construction; landscaping; install permanent stabilization.
8. Site inspection, and verification of stabilization by Orange County Erosion Control office
9. Install bio-gardens, if any; stabilize immediately
10. Final landscaping, planting
11. Remove sediment controls

Bio-gardens, when used, should be constructed only after completion of sediment producing activities and stabilization of disturbed areas that could impact future performance. Adjustments to sequence may be necessary to facilitate construction and at all times, contractor/owner is responsible for preventing off-site migration of sediments and pollutants. Changes to project may necessitate modifications to permit.

STABILIZE ALL DISTURBED SURFACES WITHIN 7-DAYS OF DISTURBANCE, AS DESIGNATED IN TABLE USING SEASONALLY APPROPRIATE GRASS AND EXCELSION MATTING WITH POLY-NET OR EQUIVALENT MATERIAL (see landscape plans)

Erosion and Sediment Controls

1. Owner/developer must control erosion in accordance with NC General Statutes. Land disturbing activities shall be conducted in accordance with requirements of NCDENR Land Quality Division and the Orange County Erosion Control Authority. An erosion control permit from OCEC department is required.
2. Construction entrance(s) shall be constructed and silt fences installed where shown.
3. Bio-gardens, if used, should be constructed after completion of sediment producing activities that could impact future performance.
4. Developer/contractor shall maintain designated Construction Entrance to prevent and minimize the transportation of mud, stone and other construction related materials from being tracked onto street surfaces. All materials deposited upon off-site surfaces shall be removed immediately. Periodic street and/or sidewalk washing or sweeping may be required.

Notes to EROSION CONTROL PLAN

1. Disturbed area=21,321-sf (0.49-ac.). An erosion control permit issued by Orange County will be required.
2. If applicable, sediment traps shall not be installed within stream buffers or OWASA easements.
3. If specified, details for traps, skimmers, emergency spillways, etc. shall be provided with construction plans
4. Where required, pipe outlets from sediment traps shall not be discharged directly into stream.
5. Permanent dissipator pads with fabric underlayment will be required at all pipe outlets including roof drains.
6. Turbid water that is pumped from the site must be passed through a silt sack or other approved sediment filtering device.

Site Description

1. Name: Wildflower
2. Address: 3100 Damascus Church Rd. Chapel Hill, NC
3. Parcel ID: 9777-35-4538
4. Area: 15.99-ac.
5. Application: CUP (Comprehensive Use Permit)
6. Zoning: WH, University Lake Critical
7. Existing Use: undeveloped
8. Proposed Use: Child Care
9. Impervious surface: pre-development 36,266-sf (0.83-ac) (proposed new) post-development 14,367-sf (0.33-ac)
10. Stormwater Discharge: pre-development Op(25)=43.6-cfs post-development Op(25)=45.0-cfs

Orange County Solid Waste

1. By OC (Orange County) ordinance, clean wood waste, scrap metal and corrugated cardboard, all present in construction waste must be recycled.
2. By OC ordinance, all haulers of construction waste must be properly licensed.
3. Prior to any demolition or construction activity on the site, applicant will hold a pre-demolition, pre-construction conference that includes OC Solid Waste staff.
4. Note: Trash pickup will be by xxxxx

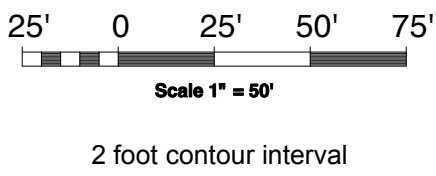
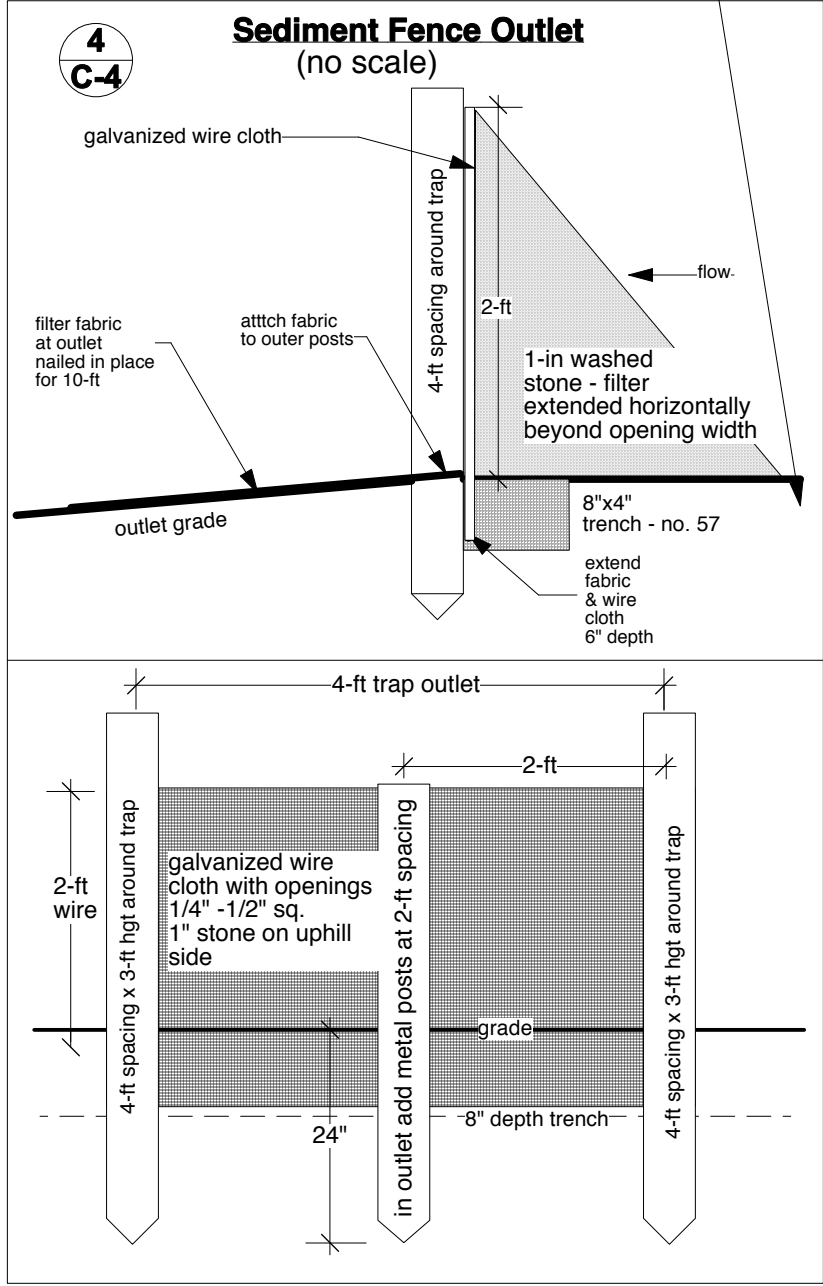
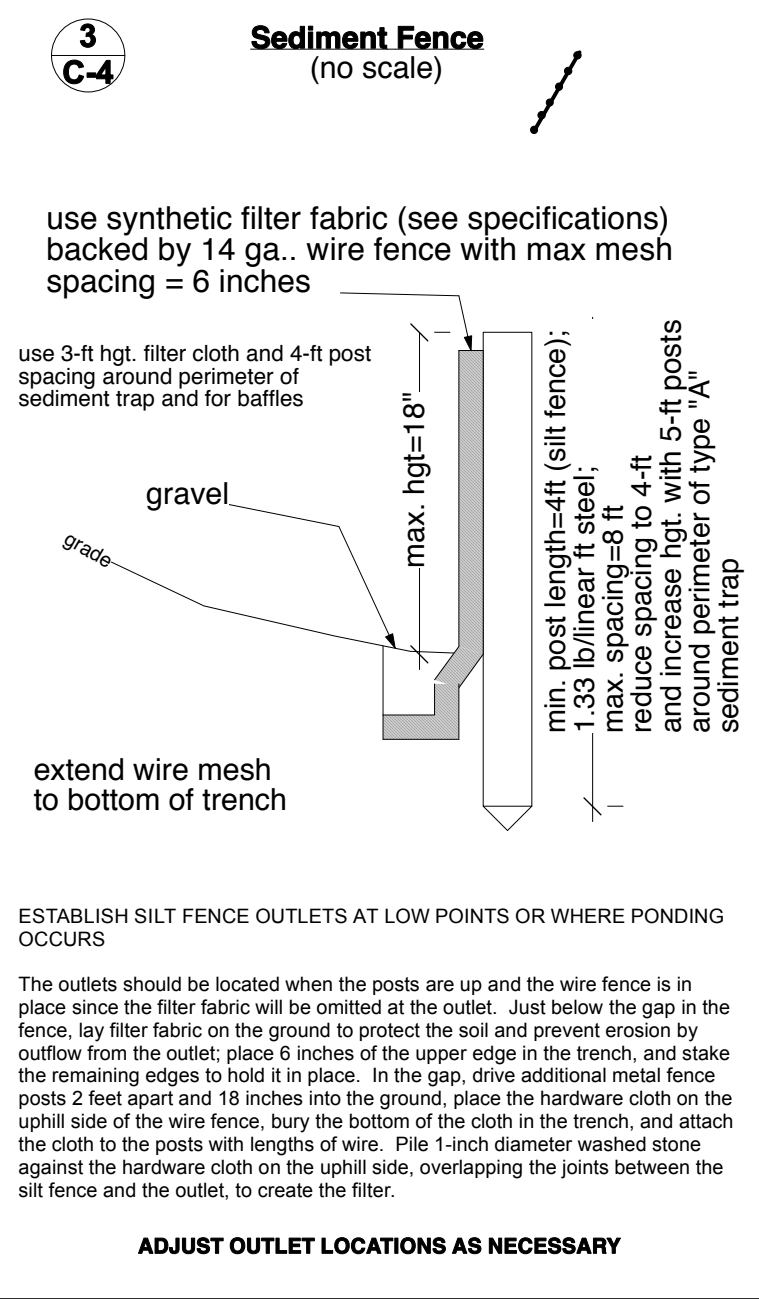
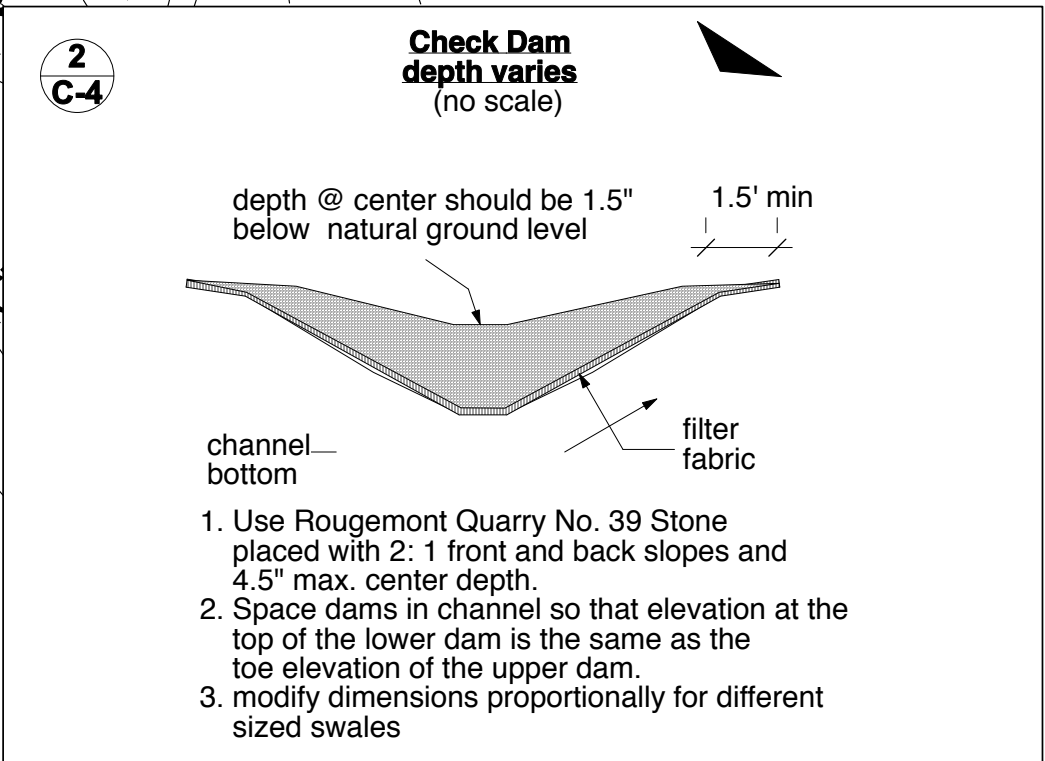
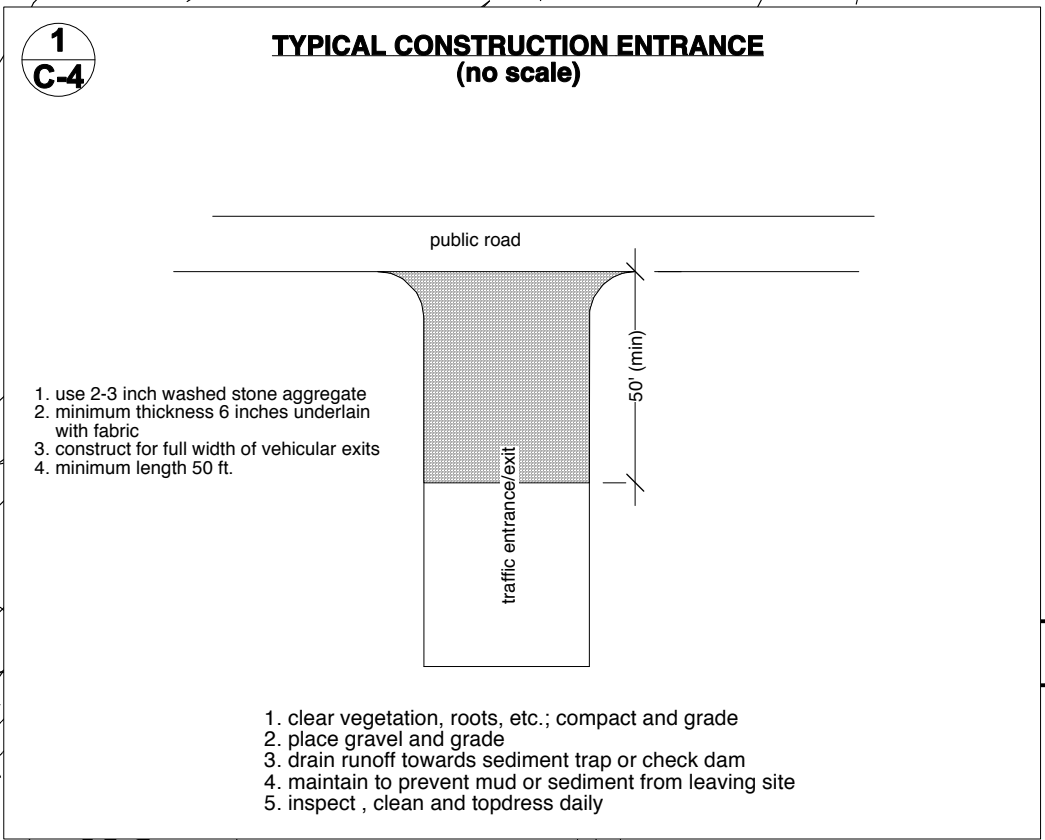
Soil Export/Disposal

Should it become necessary, soil removed from site must be transported to approved location.

CONTACT the National "Call Before You Dig" 811 to have underground facilities located before beginning any excavation.

NOTE: existing contours shown are from Orange County GIS map. Actual conditions may differ and, if so, field adjustments will be required. Changes should be confirmed with architect/engineer.

See sheet C-1 for additional grading information



LEGEND	
-----	stream buffer
443.6 0+50	spot elevations - existing
443.6 0+50	spot elevations - proposed
---533---	existing contours
---33---	proposed contours
	planting, screening
	deciduous tree
	roof drain
---	disturbed area
- - -	tree protection fence
---	silt fence
	check dam
	bio-garden
(PP)	power pole
(FH)	fire hydrant
==gas==	gas pipe
==RCP (SW)==	stormwater
==SS==	sanitary sewer
==W==	water
---	bicycle rack
	stormwater detention
	Denotes Approx. Tree Line

All topographic and boundary information is from survey drawings provided by Matthew S. Jarrel Land Surveying, PLLC, undated, from the Orange County GIS map, and from field measurements. A guarantee of accuracy is not implied or intended. Prior to beginning field activities, contractor should verify locations of all existing easements, utilities, structures, and other appurtenances both aboveground and below. It will be contractor's responsibility to report deviations from design drawings. Contractor will be responsible for repairs to damages and site restoration.

PRELIMINARY NOT FOR CONSTRUCTION

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200 North Greensboro Street Suite B-13A
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Project Name:
WILDFLOWER LEARNING COMMUNITY, Inc.
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CUP Application

Developer/Owner/Applicant:

President: Shelley Riselvato
6205-F8 Farrington Rd.
Chapel Hill, NC 27517
phone:

Drawing Title:

EROSION CONTROL PLAN

Number	Description	Date
submittal 1	initial submittal	
submittal 2		
submittal 3		

Drawn by: **SAA**

Checked by:

Sheet

Date:
10 April 2018

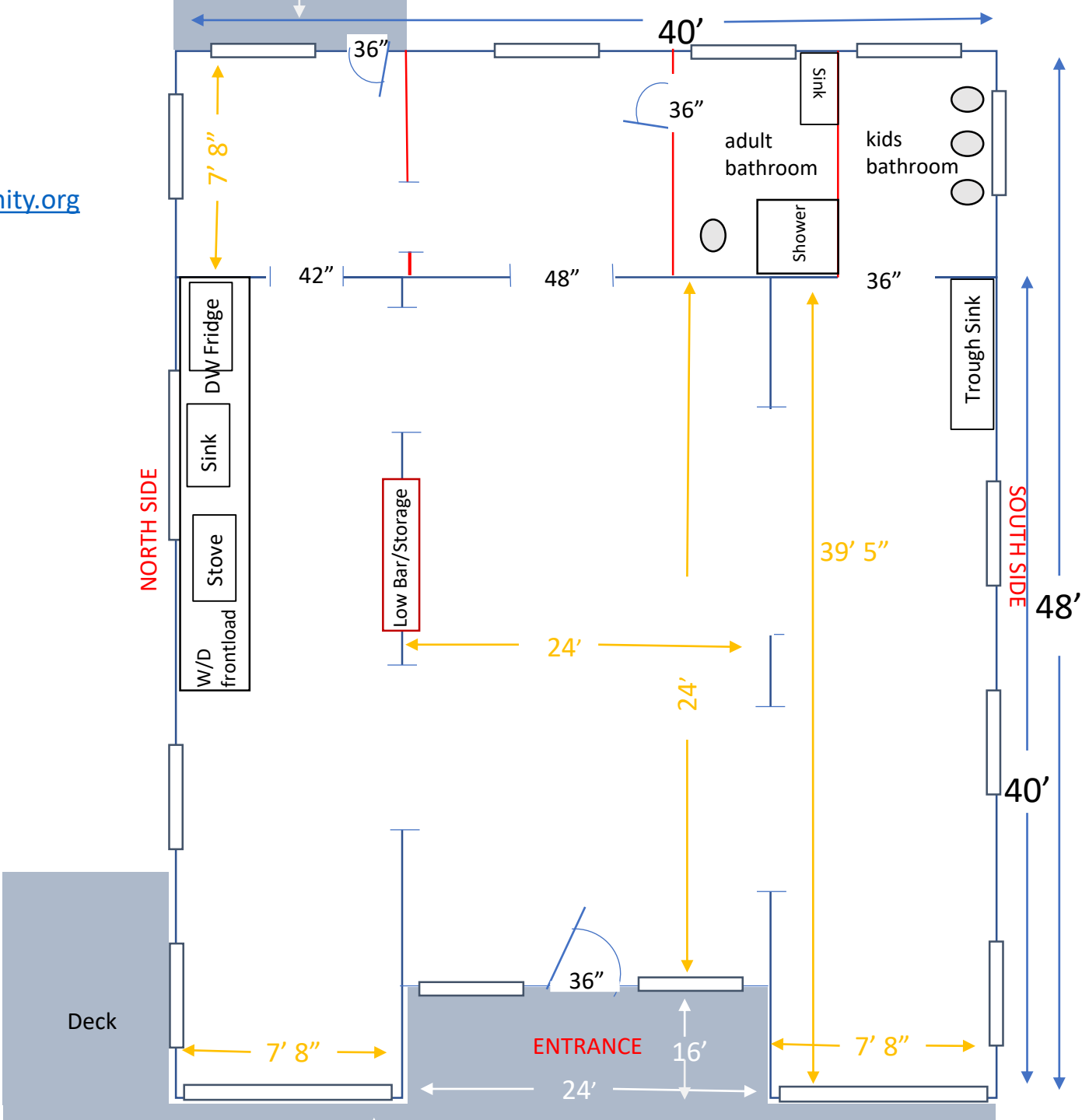
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1"=50'

C-4

Wildflower School

1,482 sf est.

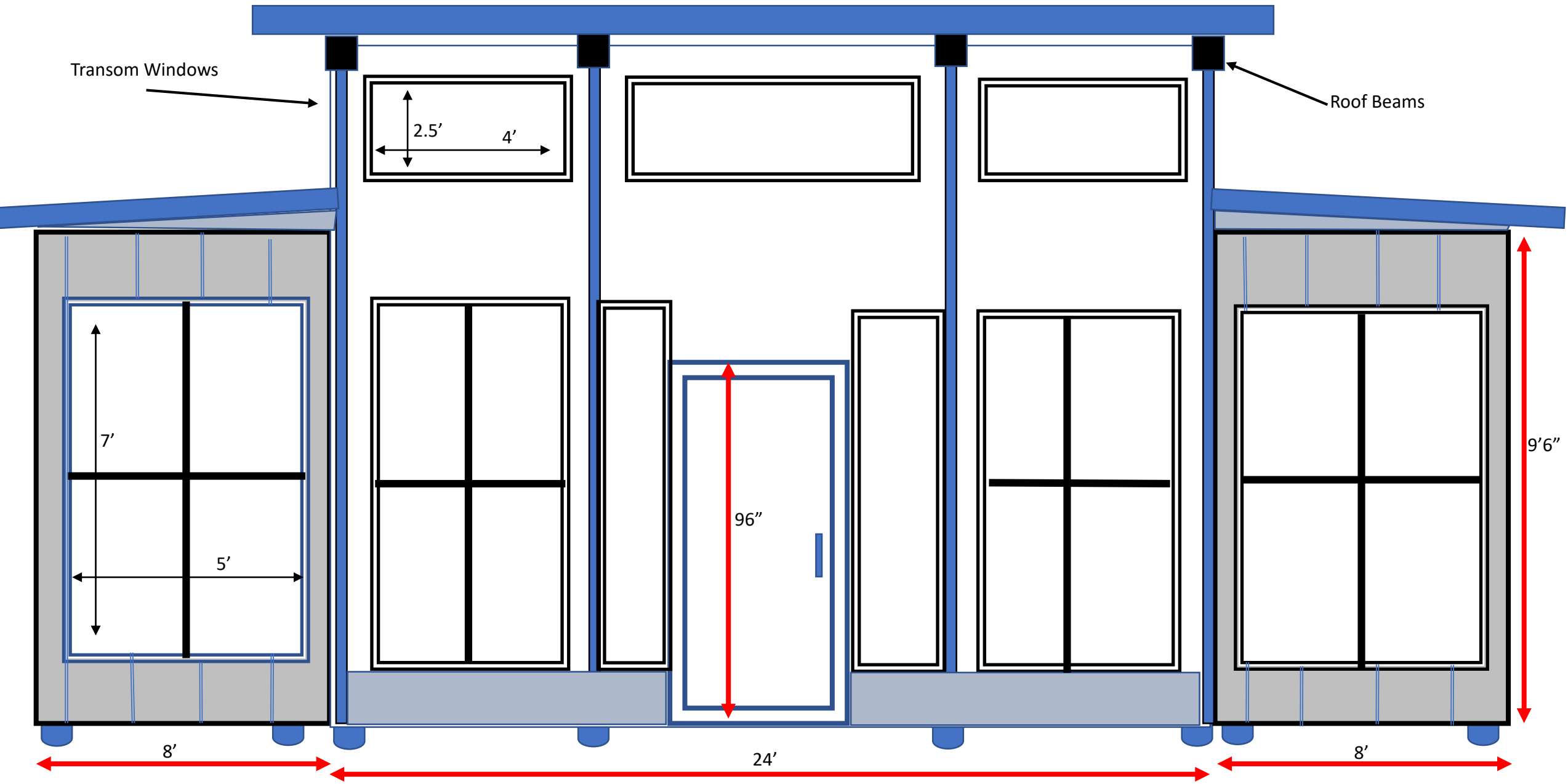
wildflowerlearningcommunity.org



*Sketch is not to scale

* Sketch is not to scale

West Elevation (Building Entrance)



North Elevation

