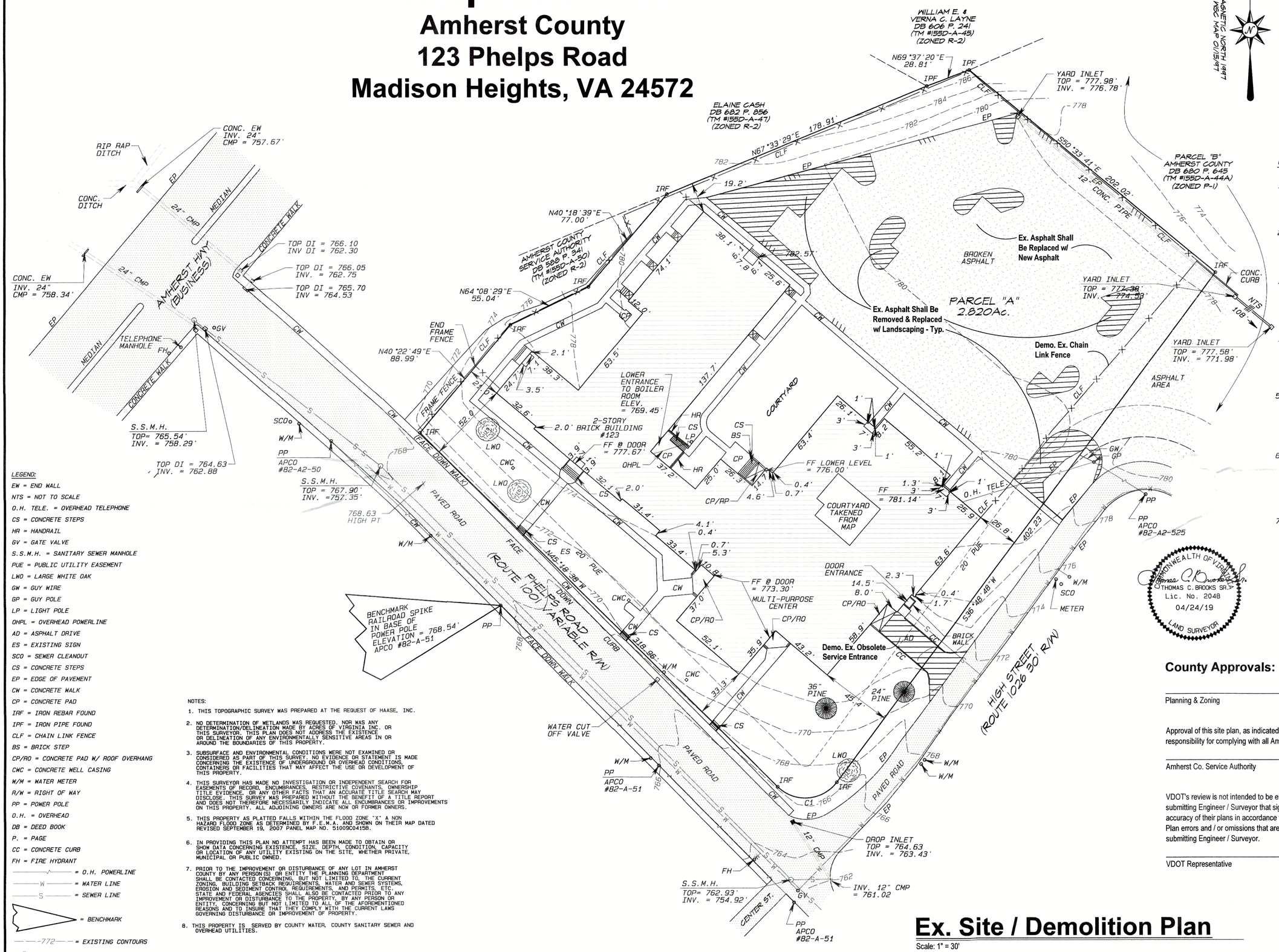
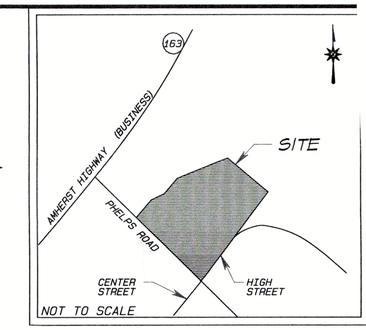
Phelps School

Amherst County
123 Phelps Road
Madison Heights, VA 24572





LOCATION MAP

CONTACT NUMBERS:

1. GAS:
   COLUMBIA GAS SERVICES
   1600 DUBLIN ROAD
   COLUMBUS, OH 43215
   PHONE: (800)-440-6111 EXT. 3220

2. ELECTRIC:
   AMERICAN ELECTRIC POWER
   4001 MAYFLOWER DRIVE
   LYNCHBURG, VA. 24501-5094
   PHONE: (434) 522-4329

3. TELEPHONE:
   VERIZON - VIRGINIA, INC.
   ENGINEERING DEPARTMENT
   553 LEESVILLE ROAD
   LYNCHBURG, VA. 24502
   PHONE: (434) 239-9517

4. COUNTY INSPECTIONS:
   AMHERST COUNTY BUILDING INSPECTIONS
   P.O. BOX 390
   AMHERST, VA. 24521
   PHONE: (434) 946-9302

5. AMHERST COUNTY DEPARTMENT OF PLANNING AND ZONING:
   ZONING ADMINISTRATOR
   P.O. BOX 390
   AMHERST, VA. 24521
   PHONE: (434)946-9303

6. ROADS:
   VIRGINIA DEPARTMENT OF TRANSPORTATION (V.D.O.T.)
   4219 CAMPBELL AVENUE
   P.O. BOX 11649
   LYNCHBURG, VIRGINIA
   PHONE: (434) 947-6559

7. WATER:
   AMHERST COUNTY SERVICE AUTHORITY
   113 PHELPS ROAD
   MADISON HEIGHTS, VA 24572
   PHONE: (434) 845-1605

LEGEND:

EW = END WALL
NTS = NOT TO SCALE
O.H. TELE. = OVERHEAD TELEPHONE
CS = CONCRETE STEPS
HR = HANDRAIL
GV = GATE VALVE
S.S.M.H. = SANITARY SEWER MANHOLE
PUE = PUBLIC UTILITY EASEMENT
LWO = LARGE WHITE OAK
GW = GUY WIRE
GP = GUY POLE
LP = LIGHT POLE
OHPL = OVERHEAD POWERLINE
AD = ASPHALT DRIVE
ES = EXISTING SIGN
SCO = SEWER CLEANOUT
CS = CONCRETE STEPS
EP = EDGE OF PAVEMENT
CW = CONCRETE WALK
CP = CONCRETE PAD
IRF = IRON REBAR FOUND
IPF = IRON PIPE FOUND
CLF = CHAIN LINK FENCE
BS = BRICK STEP
CP/RO = CONCRETE PAD W/ ROOF OVERHANG
CWC = CONCRETE WELL CASING
W/M = WATER METER
R/W = RIGHT OF WAY
PP = POWER POLE
O.H. = OVERHEAD
DB = DEED BOOK
P. = PAGE
CC = CONCRETE CURB
FH = FIRE HYDRANT
= O.H. POWERLINE
= WATER LINE
= SEWER LINE
= BENCHMARK
= EXISTING CONTOURS
LWO = LARGE WHITE OAK
= LARGE PINE

NOTES:

1. THIS TOPOGRAPHIC SURVEY WAS PREPARED AT THE REQUEST OF HAASE, INC.
2. NO DETERMINATION OF WETLANDS WAS REQUESTED. NOR WAS ANY DETERMINATION/DELINEATION MADE BY ACRES OF VIRGINIA INC. OR THIS SURVEYOR. THIS PLAN DOES NOT ADDRESS THE EXISTENCE OR DELINEATION OF ANY ENVIRONMENTALLY SENSITIVE AREAS IN OR AROUND THE BOUNDARIES OF THIS PROPERTY.
3. SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS PART OF THIS SURVEY. NO EVIDENCE OR STATEMENT IS MADE CONCERNING THE EXISTENCE OF UNDERGROUND OR OVERHEAD CONDITIONS, CONTAINERS OR FACILITIES THAT MAY AFFECT THE USE OR DEVELOPMENT OF THIS PROPERTY.
4. THIS SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER FACTS THAT AN ACCURATE TITLE SEARCH MAY DISCLOSE. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND DOES NOT THEREFORE NECESSARILY INDICATE ALL ENCUMBRANCES OR IMPROVEMENTS ON THIS PROPERTY. ALL ADJOINING OWNERS ARE NOW OR FORMER OWNERS.
5. THIS PROPERTY AS PLATTED FALLS WITHIN THE FLOOD ZONE "X" A NON HAZARD FLOOD ZONE AS DETERMINED BY F.E.M.A. AND SHOWN ON THEIR MAP DATED REVISED SEPTEMBER 19, 2007 PANEL MAP NO. 51009C0415B.
6. IN PROVIDING THIS PLAN NO ATTEMPT HAS BEEN MADE TO OBTAIN OR SHOW DATA CONCERNING EXISTENCE, SIZE, DEPTH, CONDITION, CAPACITY OR LOCATION OF ANY UTILITY EXISTING ON THE SITE, WHETHER PRIVATE, MUNICIPAL OR PUBLIC OWNED.
7. PRIOR TO THE IMPROVEMENT OR DISTURBANCE OF ANY LOT IN AMHERST COUNTY BY ANY PERSON(S) OR ENTITY THE PLANNING DEPARTMENT SHALL BE CONTACTED CONCERNING, BUT NOT LIMITED TO, THE CURRENT ZONING, BUILDING SETBACK REQUIREMENTS, WATER AND SEWER SYSTEMS, EROSION AND SEDIMENT CONTROL REQUIREMENTS, AND PERMITS, ETC. STATE AND FEDERAL AGENCIES SHALL ALSO BE CONTACTED PRIOR TO ANY IMPROVEMENT OR DISTURBANCE TO THE PROPERTY, BY ANY PERSON OR ENTITY, CONCERNING BUT NOT LIMITED TO ALL OF THE AFOREMENTIONED REASONS AND TO INSURE THAT THEY COMPLY WITH THE CURRENT LAWS GOVERNING DISTURBANCE OR IMPROVEMENT OF PROPERTY.
8. THIS PROPERTY IS SERVED BY COUNTY WATER, COUNTY SANITARY SEWER AND OVERHEAD UTILITIES.

CURVE DATA:

LINE	DELTA	RADIUS	ARC	CHORD	CHORD BEARING
C1	97°52'59"	25.00'	42.72'	37.71'	S85°44'38"W

SOURCE OF TITLE:

THIS PROPERTY WAS CONVEYED TO THE ECONOMIC DEVELOPMENT AUTHORITY OF AMHERST COUNTY AND RECORDED BY INSTRUMENT NUMBER 170003281 IN THE CLERK'S OFFICE OF THE CIRCUIT COURT OF AMHERST COUNTY, VIRGINIA.

COMMONWEALTH OF VIRGINIA
THOMAS C. BROOKS SR.
Lic. No. 2048
04/24/19
LAND SURVEYOR

THIS TOPOGRAPHIC SURVEY WAS PREPARED (APRIL 24, 2019) FROM AN ACTUAL AND CURRENT FIELD SURVEY MADE UNDER MY SUPERVISION AND COMPLIES WITH THE MINIMUM STANDARDS AND PROCEDURES ESTABLISHED BY THE VIRGINIA STATE BOARD OF ARCHITECTS, PROFESSIONAL ENGINEERS, LAND SURVEYORS, CERTIFIED INTERIOR DESIGNERS AND LANDSCAPE ARCHITECTS TO THE BEST OF MY KNOWLEDGE AND BELIEF.

County Approvals:

Planning & Zoning — Date

Approval of this site plan, as indicated by the following signature, does not relieve the applicant from responsibility for complying with all Amherst County and Amherst County Service Authority regulations.

Amherst Co. Service Authority — Date

VDOT's review is not intended to be either complete or comprehensive as it is the responsibility of the submitting Engineer / Surveyor that signs and seals these plans to ensure the completeness and accuracy of their plans in accordance with governing laws, regulations, specifications and standards. Plan errors and / or omissions that are discovered during construction remain the responsibility of the submitting Engineer / Surveyor.

VDOT Representative — Date

Ex. Site / Demolition Plan

Scale: 1" = 30'

Note: This as-built survey was performed by Acres of Virginia, Inc. dated April 24, 2019, File No. A19771.

0 15 30 60

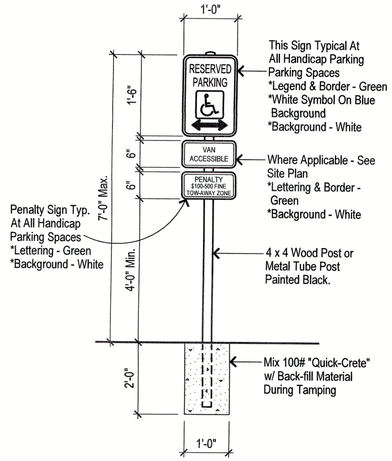
Drawing List:

Sheet C1 of 5: Ex. Site / Demolition Plan
Sheet C2 of 5: Site Plan
Sheet C3 of 5: Utility Plan
Sheet C4 of 5: VDOT Sheet
Sheet C5 of 5: Landscape Plan

JRA Job #19-01

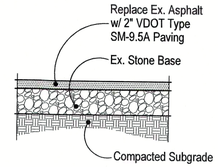
Legend:

BC	Back of Curb
BOP	Begining Of Profile
C&G	Curb & Gutter
CL.	Centerline
CO.	Clean Out
CWC	Concrete Well Casing
DI	Drop Inlet
EG	Edge Of Gravel
EOP	End Of Profile
EP	Edge Of Pavement
Ex.	Existing
FH	Fire Hydrant
FL	Flow Line
FM	Force Main
GW	Guy Wire
HP	High Point
LP	Light / Lamp Pole
MH	Manhole
PUE	Public Utility Easement
R	Radius
SW	Sidewalk
TC	Top of Curb
UP	Utility Pole
WM	Water Meter
WV	Water Valve
Prop.	Proposed
100	Prop. Topo
5	Exist. Topo
× 125.5	Prop. Spot Grade
× 125.0	Exist. Spot Grade
UGE	Ex. Underground Electric
OHE	Ex. Overhead Electric
W	Ex. Water Line
SS	Ex. Sanitary Sewer Line
STS	Ex. Storm Sewer
UGT	Ex. Underground Tel. Line
OHT	Ex. Overhead Tele. Line
G	Ex. Gas Line
STS	Prop. Storm Sewer Line
OHE	Prop. Overhead Electric
UGE	Prop. Underground Electric
W	Prop. Water Line
SS	Prop. Sanitary Sewer Line
UGT	Prop. Underground Tele. Line
OHT	Prop. Overhead Tele. Line
	SS. Cleanout
	SS Plug
	SS Service w/ Clean Out
	Blow Off Assembly
	Water Service w/ Water Meter
	Proposed Fire Hydrant Assembly
	Gate Valve
W	Water Meter
T	Padmount Transfer
	Silt Fence
	Fence
	Limits Of Easement
	Edge Of Woods
	Bench Mark
	Soil Borings
	Lamp & Pole
	Light & Pole
	New Heavy Duty Asphalt
	New Light Duty Asphalt
	New SW
	Ex. Asphalt
	Ex. Gravel
	New Gravel



Typ. HC Sign Detail

No Scale

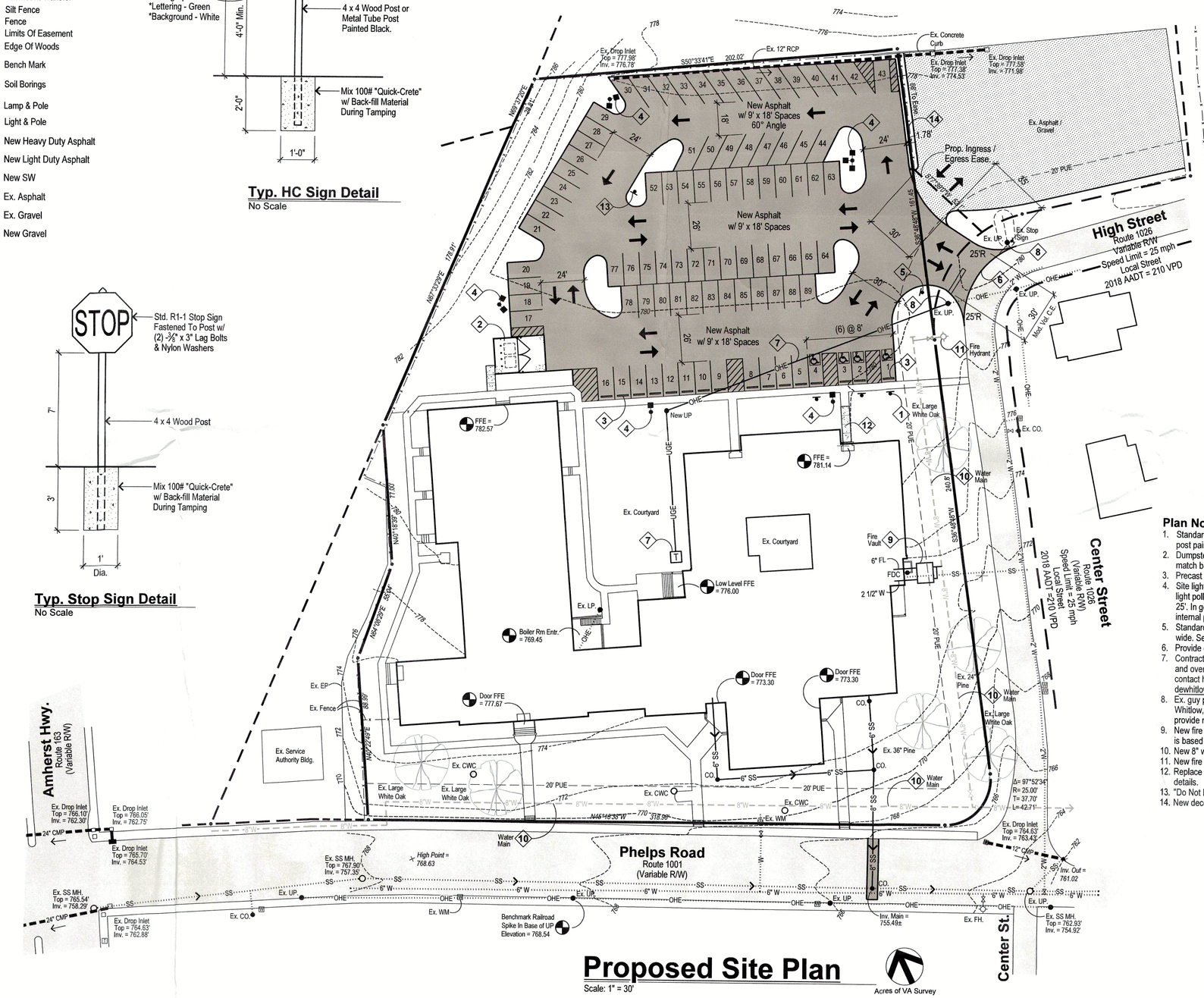


Typ. Pavement Detail

No Scale

Typ. Stop Sign Detail

No Scale



Proposed Site Plan

Scale: 1" = 30'

Notes:

1. HC parking spaces shall be 8'x18'. All other parking spaces shall be 9'x18'.
2. Contractor shall furnish and install a Knox Box on the building. Contractor shall coordinate exact location of same with Sam Bryant, 434-946-9307.

General Notes:

1. Owner:	Ol Seminole, LLC.
Developer:	Waukeshaw Development, Inc. 245 East Bank Street Petersburg, VA. 23803 Contact: John David McCormack 804-677-5728 dave@waukeshaw.com
2. Legal Information:	TM. 155D-A-44
3. Site Address:	123 Phelps Road Madison Heights, VA 24572
4. Zoning:	R-2 w/ SER 2019-033
5. Lot Size:	2.820 Acres
6. Building Size:	Existing
7. Building Height:	Existing
8. Lot Area:	Existing
9. Lot Frontage:	Existing
10. Lot Coverage:	Existing
11. Setback:	Exisitng
12 Side Yard:	Existing
13. Rear Yard:	Existing
14. Parking:	Required = 40 Units x 2 = 80 Spaces Provided = HC = 4 Regular = 85 Total = 89
15. Water:	Public
16. Sewer:	Public

Plan Notes:

1. Standard HC parking signs (van accessible) on 4x4 wood post or square metal post painted black at each HC space, total = (4). See typical detail.
2. Dumpster enclosure with concrete approach pad. Architecture of same shall match building.
3. Precast concrete wheel stops as shown.
4. Site lighting pole and fixtures to be selected by Owner. Same shall not create light pollution or glare on adjacent properties. Height of fixtures shall be 20' to 25'. In general, site lighting shall provide minimum 1.0 fc light levels at all internal parking areas, sidewalks, doorways, stair wells and steps.
5. Standard VDOT stop sign, R1-1, on 4x4 wood post, and white stop bar x 24" wide. See typical detail.
6. Provide clean sawcut joint at juncture of new and existing pavement.
7. Contractor shall coordinate new pad mount transformer, underground (UGE) and overhead (OHE) service with Appalachian Electric Power (AEP). Initial contact has been made with Drake Whitlow, 434-238-4604, dewhitlow@aep.com.
8. Ex. guy poles shall be replaced with new, taller poles per telecon w/ Drake Whitlow, AEP. Same shall be moved slightly away from edge of pavement to provide more clearance at entrance radii.
9. New fire vault w/ 1 1/2" domestic meter and 2 1/2" domestic service line. Same is based on design flow rate = 60 gpm. See typical detail Sh. C3.
10. New 8" water main by ACSA.
11. New fire hydrant assembly by ACSA.
12. Replace existing sidewalk with new HC ramp. See Architectural plans for details.
13. "Do Not Enter" Sign on 4x4 wood post.
14. New decorative, barrier fence x 3' H. or evergreen shrubs along property line.

Proposed Site Plan

Phelps School

123 Phelps Road
Madison Heights, VA 24572

COMMONWEALTH OF VIRGINIA
JEFF B. ROBINSON
Lic. No. 021655
PROFESSIONAL ENGINEER
7-8-19

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robinson@jrallpc.com
JEFF ROBINSON & ASSOCIATES, PC

June 3, 2019
Rev. July 8, 2019

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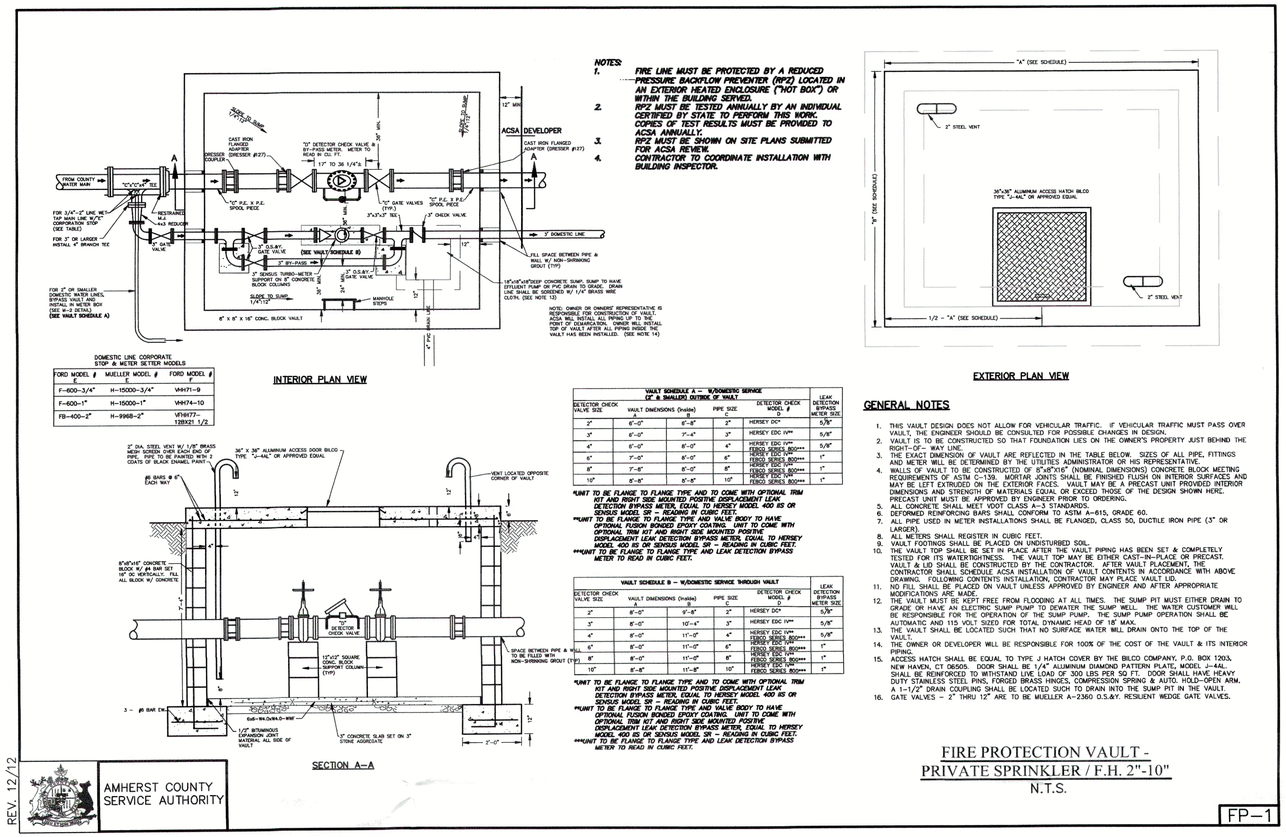
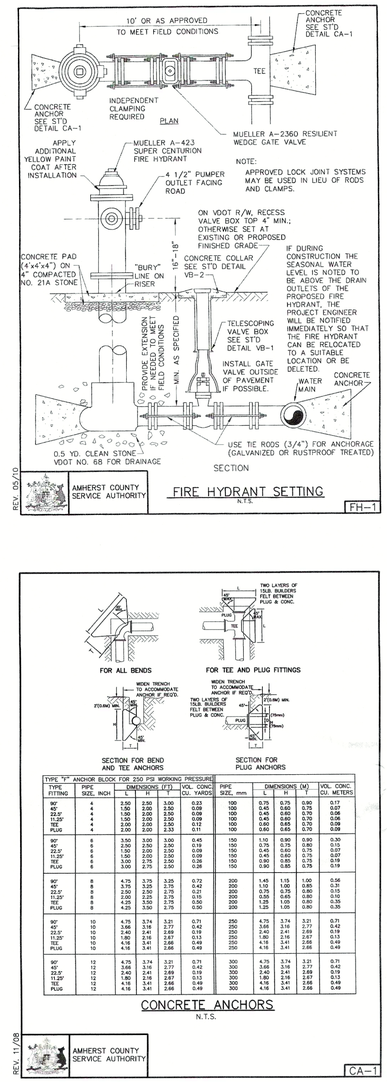
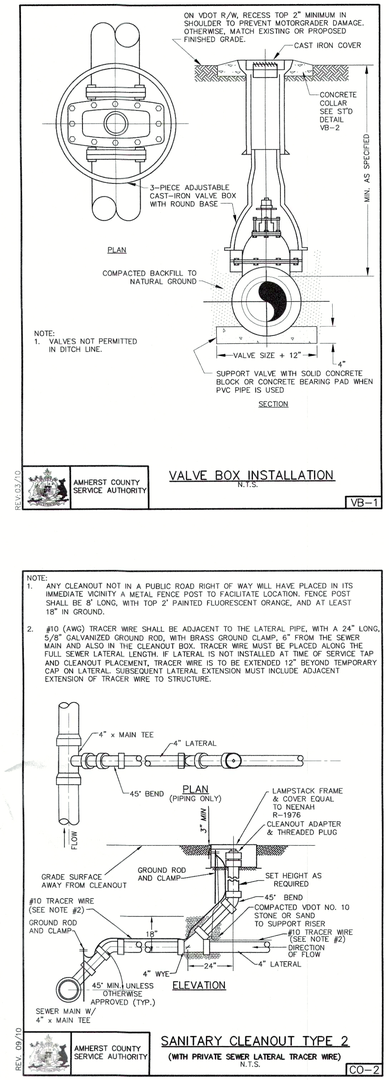
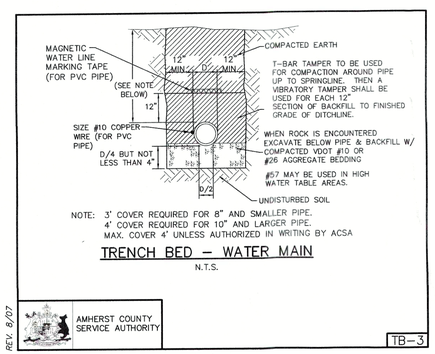
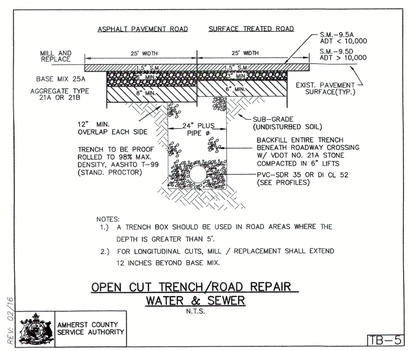
JRA Job #19-012

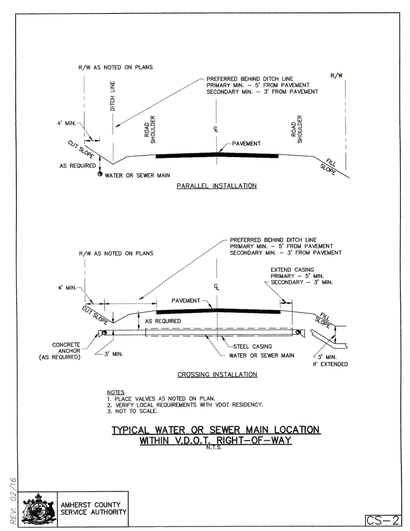












Utility Notes:

General:

1. The Contractor shall call Miss Utility at 1-800-552-7001 and shall verify location and elevation of all underground utilities in areas of construction prior to starting work.
2. The Contractor shall coordinate work with all utility companies as applicable.
3. All damage incurred to existing utilities during construction shall be repaired at the Contractor's expense.
4. All utility construction shall comply with the Amherst County Service Authority (ACSA) standards.
5. All work shall be subject to inspection by the ACSA. The Contractor shall notify ACSA, 434-845-1605, 48 hours prior to the start of work.
6. Contractor shall coordinate work with ACSA, Mr. Bob Hopkins, 434-845-1605, rhopkins@acsava.com.
7. All utility trenches in paved areas shall be bedded and backfilled, full height, with VDOT #10 or #26 aggregate. Elsewhere, trenches shall be backfilled and compacted per good construction practice.
8. The Contractor shall not operate any public water or sewer facilities, but shall contact ACSA to coordinate operation.
9. Water and sewer services from the mains to the property line shall be installed by ACSA at location provided by applicant, upon payment or required new service fees.

Electric:

1. The Contractor shall coordinate electrical service to the site with Appalacian Electric Power (AEP).
2. See Sheet C1 for contact information.

Water:

1. Water lines smaller than 4" shall be PVC, Sch. 40 with glued joints and water lines larger than 4" shall be PVC, SDR14, C900, Class 200, with push-on, gasketed joints.
2. Water piping for fire hydrant assembly shall be Ductile Iron.
3. Contractor shall install concrete thrust blocking at all bends, end caps, etc. as required. Same shall comply with County standards.
4. All water lines shall be installed with 12 ga. braided copper tracer wire.
5. All water lines shall be installed with water detection tape marked with "Potable Water Below". Tape shall be installed 1'-0" above and directly over water lines.
6. Minimum cover for water service line shall be 3 feet.

Sewer:

1. Sanitary sewer line shall be PVC, SDR-35, with push-on, gasketed, type joints.
2. Sanitary sewer cleanouts located in lawn areas shall be placed in cast iron inspection box marked "CO". See typical detail.
3. Gravity sewer line shall be bedded in gravel.

Utility Notes & Details

Phelps School

123 Phelps Road
Madison Heights, VA 24572

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JRA Job #19-012

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VDOT STANDARD NOTES FOR SITE PLANS

Lynchburg District 2016

1. Trip Generation Data:
   Use: Multi-Family — AM Peak Hour Trips: 13 Avg, 14 FC
   ITE Code: 221 — PM Peak Hour Trips: 13 Avg, 11 FC
   Total Daily Trips: 116 Avg, 63 FC
2. All construction methods and materials within State maintained right of way shall be in accordance with current VDOT standards, specifications, current "Work Area Protection Manual", and all applicable location and design instructional and informational memorandum. Inspection documentation shall be provided consistent with the VDOT Inspection Documentation Best Practices Manual.
3. A Land Use Permit shall be obtained from VDOT before any construction is started within State maintained right of way limits, including access. All Land Use Permit applications must have two (2) sets of approved plans, a copy of the plan approval letter, a check for the processing fee made payable to Treasurer of Virginia, and surety or bond in the required amount.
4. In accordance with the provisions of the Inspection Documentation Best Practices Manual, VDOT shall be notified prior to the start of any work within State maintained right of way. The contractor will coordinate with the VDOT point of contact at significant stages of the project.
5. Prior to any construction, the contractor shall consult the engineer who sealed the plans to verify the approval of the plans by all applicable federal, state, and local agencies.
6. The contractor shall have available a copy of the Land Use Permit(s), final approved plans, any approved revisions, and a copy of the approval letter on site.
7. The contractor shall verify the elevations of all points of connection or proposed work to existing curbs, sanitary lines, waterlines, etc., prior to construction.
8. Any errors, conflicts, or discrepancies found on the approved plans shall be reported to the engineer who sealed and signed the plans. VDOT shall be notified for resolution before proceeding further with the work, if the State maintained right of way is affected.
9. Design changes, specified material changes, and /or field changes from the approved plans shall be re-submitted to VDOT for review and approval, prior to proceeding with the work.
10. The developer is responsible for any damage to existing roads, utilities, and any other installations already in place which occur as a result of project construction within or contiguous to State right of way limits.
11. The Commonwealth Transportation Board, members of the Board, the Commonwealth and all Commonwealth employees, agents, and offices, shall be absolved from all responsibilities, damages and liabilities as a result of work arising from the exercise of the privileges granted by plan and/or permit approval.
12. No structure shall be constructed on VDOT rights of way unless shown on VDOT approved construction plans or covered by a VDOT Land Use Permit.
13. VDOT shall not be responsible for the maintenance of any stormwater management facility or outfall structure located outside of State maintained right of way limits and shall be absolved from all responsibilities, damages and liabilities as a result of such.
14. All erosion and sediment control measures shall be the responsibility of the contractor in accordance with the Virginia Erosion & Sediment Control Handbook and Virginia Stormwater Management Program. An individual certified by the Virginia Department of Conservation and Recreation, holding a Responsible Land Disturber Certification, shall be in charge of the land disturbing activity and on the work site at all times.
15. When unsuitable materials for sub-grades and other roadway construction are encountered during construction, the contractor shall contact a geotechnical engineer and VDOT. Such materials shall be undercut and backfilled as directed by a geotechnical engineer, according to VDOT specifications.
16. The scheduling of aggregate base installation and subsequent paving activities shall accommodate forecast weather conditions according to VDOT "Road and Bridge Specifications".
17. A prime coat seal between the aggregate base and bituminous concrete shall be required per VDOT standards and specifications.
18. VDOT shall have approved all base courses for depth and template and performed the required visual, proof roll, compaction, and any additional inspections as determined by the VDOT Inspector prior to placement of any surface courses.
19. If the developer chooses to provide VDOT with documentation by a licensed Geotechnical Engineer, certifying that all in-place pavements meet or exceed the approved pavement design thickness prior to VDOT acceptance for maintenance, the certifying documentation shall conform to VDOT specifications and the approved plans.
20. Installation of pipe culverts and storm sewers shall conform to VDOT Standard PB-1.
21. All fixed objects such as utility cabinets, pedestals, and streetlights shall be located in accordance with clear zone requirements, as noted in the Road Design Manual. There shall not be any cabinets, pedestals, or fire hydrants located on the shoulder.
22. Flowers, shrubs, and trees shall not be placed within State maintained right of way limits without an approved set of plans and an approved planting agreement. No irrigation (sprinkler) systems, brick columns, endwalls, and/or brick mailboxes will be constructed or installed within State maintained right of way limits without a permit. Any of the above items found in the right of way without a permit shall be removed, and all costs of the removal shall be borne by the owner and/or developer.
23. The contractor shall be responsible for locating and protecting all underground and overhead utilities, whether or not they are shown on the plans, prior to starting work. The contractor will be responsible for repairs, at his own expense, of any utilities damaged by his construction methods. MISS UTILITY must be contacted at 811 at least 72 hours prior to the commencement of construction. The developer shall be responsible for the relocation of any utility within existing or proposed right of way.
24. All construction debris, materials, dumpsters, etc. shall be located outside the right of way.
25. Authorized underground utility installations shall maintain a minimum of 36 inches of cover, including under ditches.
26. Overhead utility installations within limited access and non limited access right of way shall be installed in accordance with VDOT Land Use Permit Regulations.
27. Sight distances at entrances and intersections shall be maintained at all times during and after construction. Any object or landscaping that obstructs driver view shall be relocated at the developer's expense or the entrance may be closed at VDOT's discretion.
28. The permitee is responsible for pursuing and obtaining any and all environmental permits including, but not limited to, wetlands, waters of the US, water quality, threatened and endangered species, hazardous materials, and cultural resources, required to pursue the proposed activity before any construction is started within State maintained right of way limits. Documents related to these activities shall be submitted with the Land Use Permit application.
29. VDOT and County approval of construction plans does not preclude the right to require additional facilities as deemed necessary for acceptance for VDOT maintenance or commercial entrance to a state maintained road.
30. The Contractor shall schedule a pre-construction conference with VDOT, County of Amherst and the Amherst Co. Service Authority, prior to initiating work within the right-of-way.

Transportation Management Plan

MOT / TTC Plan

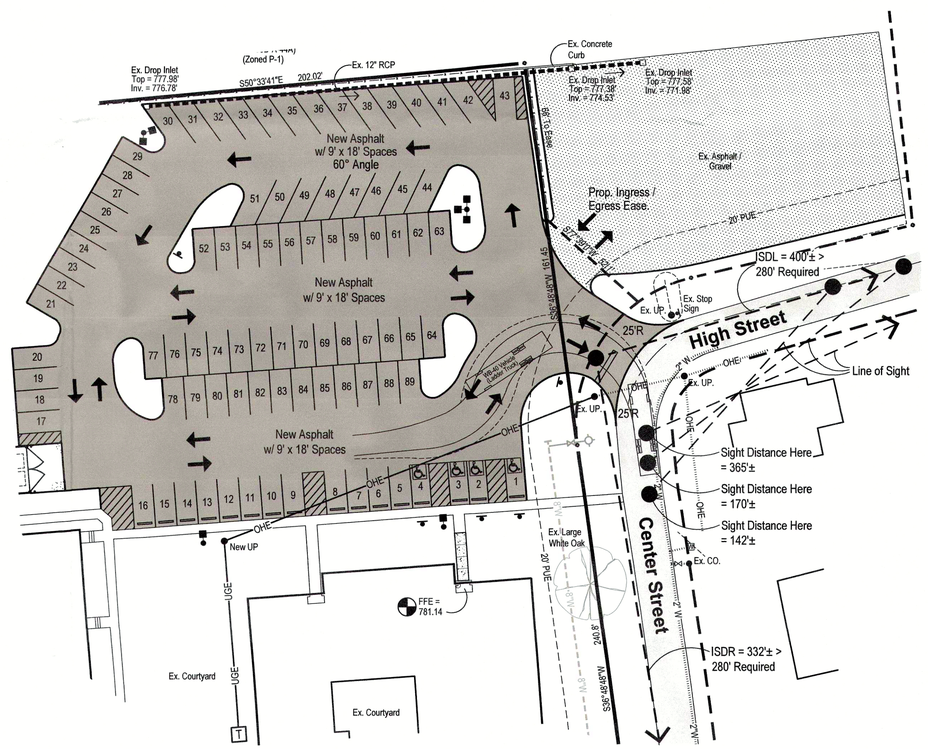
1. Improve / consolidate existing entrances to (1) - moderate volume commercial entrance.
2. Work is projected to be completed within (30) days of commencement.
3. All temporary traffic control work and devices shall be in accordance with the 2009 Manual on Uniform Traffic Control Devices (MUTCD), the Virginia Supplement to The 2009 Manual on Uniform Traffic Control Devices for Streets and Highways 2011 Edition and the National Cooperative Highway Research Program (NCHRP) Report 350.
4. It is not the intent of this temporary traffic control plan to enumerate every detail which must be considered in the construction of this project, but only to show the general handling of traffic.
5. Traffic shall be maintained in accordance with typical applications TTC-4.1 and TTC-23.1 from the April 2015 Revision to the 2011 Virginia Work Area Protection Manual (VWAPM) as shown this sheet.
6. Off-site detours are not available.
7. Work shall be performed during non-peak hours of 9:00 am to 3:30 pm Monday through Friday.
8. Restrictions to traffic shall be removed by 5:00 am the day before a holiday(s) and shall not be restricted again until 8:00 pm the day after the holiday(s). When a holiday falls on Monday, restrictions shall be removed by 5:00 am the preceding Friday. When a holiday falls on a Friday, restrictions shall not be placed until 8:00 pm the following Monday.
9. The Contractor shall not conduct operations when the weather causes unsafe conditions for the traveling public as determined by the Engineer.
10. It is the intent to minimize the impact to the traveling public. Lane closures or restrictions over segments of the project, in which no work is anticipated within a reasonable time frame, as determined by the Engineer, shall not be permitted.
11. Existing lane widths shall be maintained. In no case shall a lane width be less than 9 feet. Contractor will take necessary measures to ensure the safe passage of emergency vehicles at all times.
12. The contractor may need to shift traffic onto the existing shoulders to provide adequate work area and the minimum lane width. Taper lengths shall be determined based on Tables 6C-3 and 6C-4 in the 2011 Virginia WAPM.
13. The Contractor shall provide and maintain safe and adequate access to all intersecting roadways and driveways at all times to the satisfaction of the Engineer. All cost for providing and maintaining access shall be included in the price bid for other items in the contract and no additional compensation will be allowed.
14. All areas excavated below existing pavement surface and within the clear zone, at the conclusion of each workday, shall meet the requirements of Figure 2 in Appendix A of the 2011 WAPM for the safety and protection of vehicular traffic. All cost for meeting these requirements shall be included in the price bid for other items in the contract and no additional compensation will be allowed.
15. Contractor shall be responsible for staging area for equipment and materials.
16. During construction, the Contractor shall maintain adequate access and sight distance at all entrances and private driveways at all times.
17. The Contractor shall provide temporary drainage as required to prevent ponding of water on the roadway and adjacent properties. Any temporary drainage structures / measures installed on the project shall be the Contractor's responsibility. The cost of same shall be included in the cost of other items.

Public Communications Plan

1. Notification of construction start / end dates shall be accomplished through newspaper ads.

Transportation Operations Plan

1. Contact list of local emergency response agencies:
   a. Public Safety, 911: 434-946-9307
   b. Sherriff's Office: 434-946-9381
   c. Fire Department: 434-929-3115
2. Contact the Lynchburg VDOT Land Use Section Representative, Jeff Kessler, at 434-856-8293 prior to commencing work within VDOT right-of-way.
3. Notify the SW Region Traffic Operations Center on a daily basis upon entering and exiting the roadway, 540-375-0170.
4. The Contractor shall contact the VDOT Transportation Operations Center at 540-375-0170 regarding shoulder or lane closures.
5. Contractor's field supervisor: Kris Haase, 804-536-6681



Site Distance Map

Scale: 1" = 30'

Acres of VA Survey

Notes:

1. HC parking spaces shall be 8'x18'. All other parking spaces shall be 9'x18'.
2. Contractor shall furnish and install a Knox Box on the building. Contractor shall coordinate exact location of same with Sam Bryant, 434-946-9307.

Page 6H-52 — April 2015

Typical Traffic Control
Lane Closure on a Two-Lane Roadway Using Flaggers
(Figure TTC-23.1)
NOTES

Guidance:

1. Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, and 500'-800' where the posted speed limit is greater than 45 mph.

2. Care should be exercised when establishing the limits of the work zone to insure maximum possible sight distance in advance of the flagger station and transition, based on the posted speed limit and at least equal to or greater than the values in Table 6H-3. Generally speaking, motorists should have a clear line of sight from the graphic flagger symbol sign to the flagger.

Option:

3. Where Right-of-Way or geometric conditions prevent the use of 48" x 48" signs, 36" x 36" signs may be used.

Standard:

4. Flagging stations shall be located far enough in advance of the work space to permit approaching traffic to reduce speed and/or stop before passing the work space and allow sufficient distance for departing traffic in the left lane to return to the right lane before reaching opposing traffic (see Table 6H-3 on Page 6H-5).

5. All flaggers shall be state certified and have their certification card in their possession when performing flagging duties (see Section 6E.01, Qualifications for Flaggers).

6. Cone spacing shall be based on the posted speed and the values in Table 6H-4 on Page 6H-6.[1]

7. A shadow vehicle with at least one high intensity amber rotating, flashing, or[1] oscillating light shall be parked 80'-120' in advance of the first work crew.

Option:

8. A supplemental flagger may be required in this area to give advance warning of the operation ahead by blowing approaching traffic prior to reaching the flagger station or queued traffic.

Guidance:

9. If the queue of traffic reaches the BE PREPARED TO STOP (W3-4) sign then the signs, and if used the portable temporary rumble strips (PTRS)[1], should be readjusted at greater distances.

10. When a highway-rail crossing exists within or upstream of the transition area and it is anticipated that queues resulting from the lane closure might extend through the highway-rail grade crossing, the temporary traffic control zone should be extended so that the transition area precedes the highway-rail crossing (see Figure TTC-56 for additional information on highway-rail crossings).

Standard:

11. At night, flagger stations shall be illuminated, except in emergencies (see Section 6E.08).

Option:

12. Cones may be eliminated when using a pilot vehicle operation or when the total roadway width is 20 feet or less.

13. For low-volume situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger, positioned to be visible to road users approaching from both directions, may be used (see Chapter 6E).

Standard:[1]

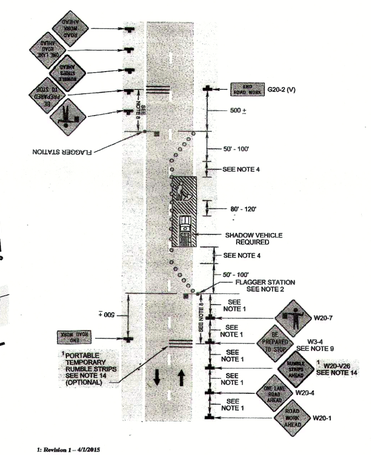
14. When approved for use, three portable temporary rumble (PTRS) strips shall be installed across the entire travel lane adjacent to the BE PREPARED TO STOP (W3-4) sign. The portable temporary rumble strips shall be monitored and adjusted as necessary during the work shift to ensure proper placement on the roadway. When the PTRS are installed, the RUMBLE STRIPS AHEAD (W20-V26) sign shall also be utilized.

Posted Speed	0 – 35 mph	36 – 55 mph
PTRS Spacing (Center to Center)	5 Feet	8 Feet

1: Revision 1 – 4/1/2015

April 2015 — Page 6H-53

Lane Closure on a Two-Lane Roadway Using Flaggers
(Figure TTC-23.1)



1: Revision 1 – 4/1/2015

Page 6H-14 — April 2015

Typical Traffic Control
Stationary Operation on a Shoulder
(Figure TTC-4.1)
NOTES

Standard

1. For long-term stationary work (more than 3 days) on divided highways having a median wider than 8', sign assemblies on both sides of the roadway shall be required as shown (ROAD WORK AHEAD (W20-1), RIGHT SHOULDER CLOSED AHEAD (W21-5bR), RIGHT SHOULDER CLOSED (W21-5aR)[1]), even though only one shoulder is being closed. For operations less than 3 days in duration, sign assemblies will only be required on the side where the shoulder is being closed and a RIGHT SHOULDER CLOSED (W21-5aR)[1] sign shall be added to that side.

Guidance

2. Sign spacing should be 1300'-1500' for Limited Access highways. For all other roadways, the sign spacing should be 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less.

Option:

3. The SHOULDER WORK (W21-5) sign on an intersecting roadway may be omitted where drivers emerging from that roadway will encounter another advance warning sign prior to this activity area.

4. For short duration operations of 60 minutes or less, all signs and channelizing devices may be eliminated if a vehicle with activated high-intensity amber rotating, flashing, or[1] oscillating lights is used.

Standard:

5. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity amber rotating, flashing, or[1] oscillating lights. Vehicle hazard warning signals can be used to supplement high-intensity amber rotating, flashing, or[1] oscillating, lights.

6. Taper length (L) and channelizing device spacing shall be at the following:

Taper Length (L)				
Speed Limit (mph)	Lane Width (Feet)			
	9	10	11	12
25	95	105	115	125
30	135	150	165	180
35	185	205	225	245
40	240	270	295	320
45	405	450	495	540
50	450	500	550	600
55	495	550	605	660
60	540	600	660	720
65	585	650	715	780
70	630	700	770	840
Minimum taper lengths for Limited Access highways shall be 1000 feet.				
Shoulder Taper = ⅓ L Minimum				

Channelizing Device Spacing		
Location	Speed Limit (mph)	
	0 - 35	36 +
Transition Spacing	20'	40'
Travelway Spacing	40'	80'
Construction Access*	80'	120'

* Spacing may be increased to this distance, but shall not exceed one access per ¼ mile.

On roadways with paved shoulders having a width of 8 feet or more, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the traveled way.

7. The buffer space length shall be as shown in Table 6H-3 on Page 6H-5 for the posted speed limit.

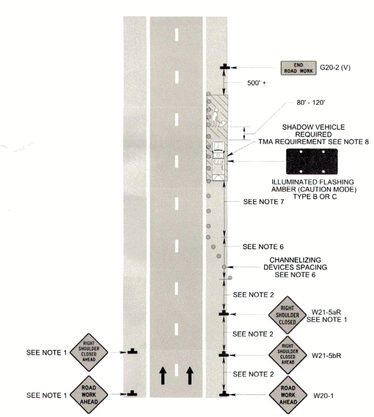
8. A truck-mounted attenuator (TMA) shall be used on the shadow vehicle on Limited Access highways and multi-lane roadways with posted speed limit equal to or greater than 45 mph for operations with a duration greater than 60 minutes.

9. When a side road intersects the highway within the temporary traffic control zone, additional traffic control devices shall be placed as needed.

1: Revision 1 – 4/1/2015

April 2015 — Page 6H-15

Stationary Operation on a Shoulder
(Figure TTC-4.1)



VDOT Notes & Transportation Mgt. Plan

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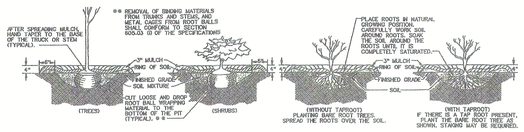
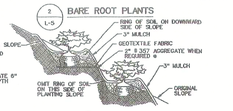


1 L-5 BALLED & BURLAPPED, & CONTAINER PLANTS



2 L-5 BARE ROOT PLANTS

3 L-5 BED PLANTING

- WHEN A PORTION OF A PLANT BED EXTENDS INTO AN AREA STEEPER THAN 4:1, CULTIVATION OF THAT PORTION SHALL BE OMITTED AND THE ENTIRE AREA BETWEEN PLANTS SHALL BE MULCHED TO BLEND IN WITH THE CULTIVATED BED.
- PLANTING BEDS (CULTIVATED AND NON-CULTIVATED) SHALL BE CUT TO A MAXIMUM 4" IN HEIGHT BY MOWING, AND SHALL, AFTERWARDS BE TREATED WITH HERBICIDE AS APPROVED AND DIRECTED BY THE ENGINEER AT LEAST 2 WEEKS PRIOR TO CULTIVATION, PLANTING, OR MULCHING.
- WHEN BARE ROOT PLANTS ARE USED IN BEDS, SHRUB AND ROOT PLACEMENT SHALL CONFORM TO DETAIL 2 L-5.
- SEW FOLLOWING BED DESIGNATION STAKES FOR SQUARE FEET OF MULCH AT THE INDICATED QUANTITY.

4 L-5 SLOPE PLANTING

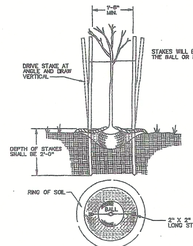
- WHEN BARE ROOT PLANTS ARE USED ON SLOPE, SHRUB AND ROOT PLACEMENT SHALL CONFORM TO DETAIL 2 L-5.
- ON SLOPES STEEPER THAN 3:1, THE FRONT CENTER OF THE PIT SHALL BE OMITTED. WHEN INSUFFICIENT TO ENCLOSE THE "*" OUT THE FULL DEPTH OF THE PIT, THE PIT SHALL BE DUG 3" DEEPER THAN SHOWN ON THE SUMMARY SHEET AND BACKFILLED WITH 2" OF #357 AGGREGATE. DAYLIGHTED TO THE SLOPE FACE, AND COVERED WITH GEOTEXTILE FABRIC PRIOR TO BACKFILLING WITH SOIL MIXTURE.
- * SEE NOTE FOR PIT DRAINAGE MODIFICATION FOR SLOPE PLANTING SHEET LD1.06.

GENERAL NOTES:

1. SEE LANDSCAPE SUMMARY SHEET FOR PIT SIZES.
2. ROOT BALL SHALL BE POSITIONED LEVEL WITH FINISHED GRADE. SOIL MIXTURE SHALL TAPER ONTO BUT NOT OVER TOP OF THE ROOT BALL. MULCH SHALL EXTEND AT THE PROPER DEPTH OVER THE ENTIRE ROOT BALL AND PLANTING PIT, AND SHALL BE HAND TAPERED TO THE BASE OF ALL TRUNKS AND STEMS AFTER SPREADING.
3. THIS RULE SHALL GOVERN WITH THE FOLLOWING EXCEPTIONS:
   A. SLOPE PLANTINGS - SEE SLOPE PLANTING DETAILS.
   B. INCLUDES OF PIT DRAINAGE SYSTEM - POSITION TOP OF ROOT BALL THE SAME AS FINISHED GRADE.
   C. TREE GRATE PLANTING - SEE TREE GRATE PLANTING DETAILS IN PLANS.

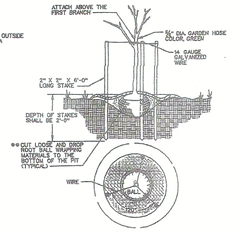
Planting Details

No Scale



5 L-5 DOUBLE STAKING & STAKE PLACEMENT

DECIDUOUS TREES LESS THAN 2" IN CALIPER
EVERGREEN TREES LESS THAN 4 FEET IN HEIGHT
SHRUBS 4 FEET OR MORE IN HEIGHT.



6 L-5 TRIPLE - GUYING

DECIDUOUS TREES 2" IN CALIPER OR GREATER
EVERGREEN TREES 4 FEET IN HEIGHT OR GREATER

GENERAL NOTES

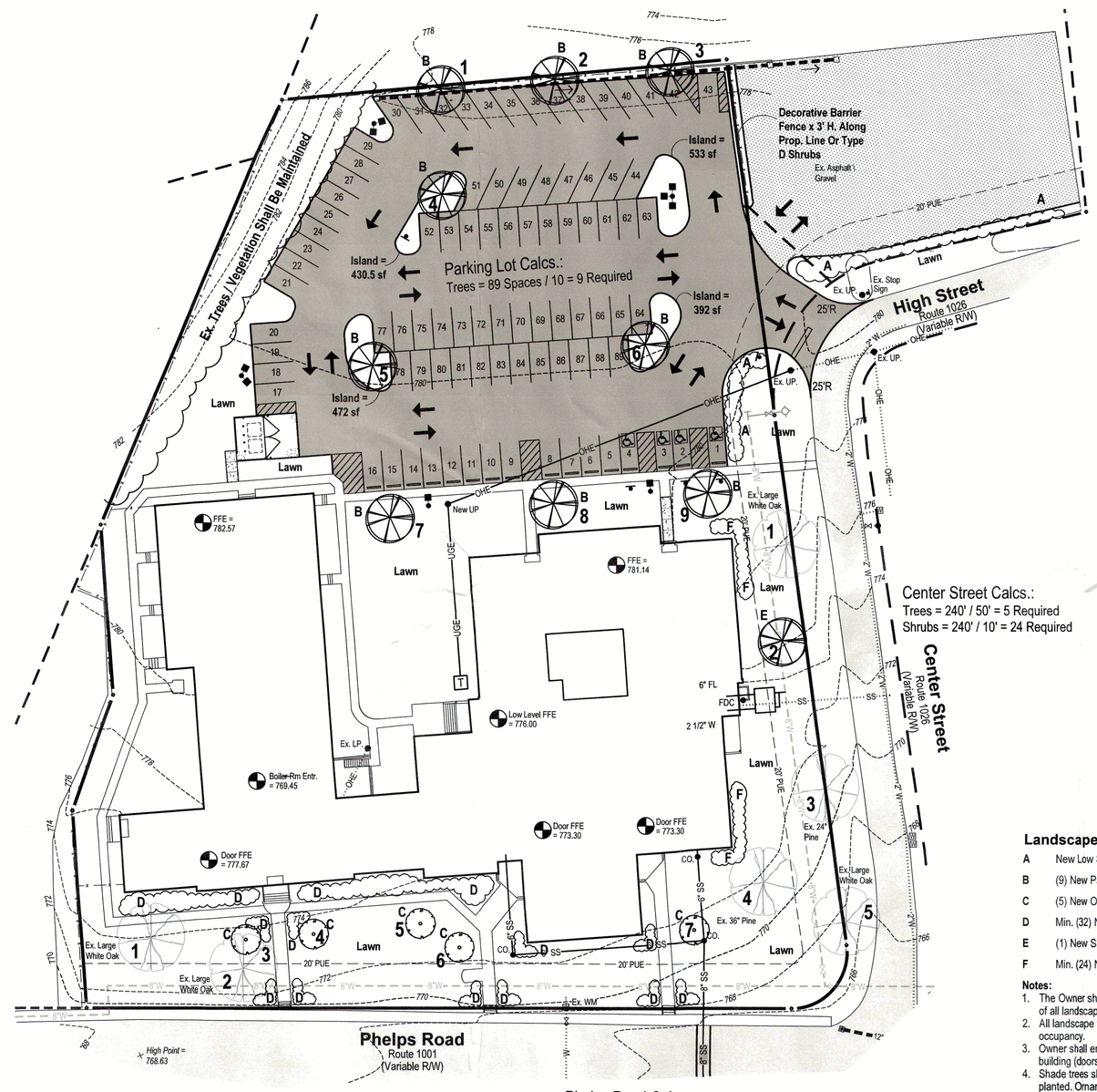
1. ALL DECIDUOUS TREES OVER 4 FT. IN HEIGHT AND ALL EVERGREEN TREES OVER 6 FT. IN HEIGHT OR COLLAR SHALL BE STAKED AND GUYED WITH 3 STAKES AS SHOWN.
2. MULTIPLE STEMMED DECIDUOUS TREES 4 FT. IN HEIGHT SHALL BE STAKED WITH 3 STAKES IN SUCH A MANNER AS TO STABILIZE 3 MAINSTEMS.
3. THE WOOD STAKES SHALL BE 2"X2"X8'-0" LONG DRESSED HARDWOOD AND DECAY RESISTANT.

THE WIRE TIES SHALL BE 14 GAUGE GALVANIZED WIRE, AND BE PROVIDED WITH A ONE FOOT PIECE OF GREEN GARDEN HOSE PLACED TO PREVENT BARK TO TREE CONTACT. THE HOSE SHOULD NOT BE PLACED TO CAUSE RUBS. THE WIRE SHOULD NOT BE PULLED TIGHT FOR BEST ESTABLISHMENT. OTHER ANCHORING METHODS AND MATERIALS MAY BE APPROVED FOR USE BY THE ENGINEER.

** REMOVAL OF BINDING MATERIALS FROM TRUNKS AND STEMS AND METAL CAGES FROM ROOT BALLS SHALL CONFORM TO THE CURRENT ROAD & BRIDGE SPECS.

Staking / Guying Detail

No Scale



Center Street Calcs.:
Trees = 240' / 50' = 5 Required
Shrubs = 240' / 10' = 24 Required

Phelps Road Calcs.:
Trees = 319' / 50' = 7 Required
Shrubs = 319' / 10' = 32 Required

Landscape Plan

Scale: 1" = 30'

Acres of VA Survey

0 15 30 60

Landscape Schedule:

A	New Low Street Shrubs @ 5' O.C.
B	(9) New Parking Lot Shade Trees
C	(5) New Ornamental / Flowering Trees At Phleps Rd. Frontage
D	Min. (32) New Evergreen Or Flowering Shrubs At Phelps Rd. Frontage
E	(1) New Shade Tree At Center St. Frontage
F	Min. (24) New Evergreen Or Flowering Shrubs At Center St. Frontage

Notes:

1. The Owner shall be responsible for the maintenance, repair and replacement of all landscaping materials.
2. All landscape work shall be complete prior to issuance of final certificate of occupancy.
3. Owner shall ensure that plant material does not block visibility at driveways, building (doors and windows), walkways and parking areas.
4. Shade trees shall be 1.5" caliper min. (measured 6" above grade) when planted. Ornamental or flowering trees shall be 1.0" caliper min. when planted. Shrubs shall be 12" min. high when planted. Shrubs shall be maintained to 24" max. height.
5. Suggested shade trees are as follows: Green Ash, Red Oak, Willow Oak, Japanese Pagoda Tree, Littleleaf Linden, Silver Linden, Zelkova, Yellowwood, Sycamore, London Planetree, Fastigiata European Hornbeam, Princeton Sentry Ginkgo (non-fruiting), Littleleaf Linden, Bald Cypress.
6. Suggested ornamental or flowering trees are as follows: Amur maple, American or Chinese Dogwood, American Plum, Serviceberry, Redbud, Deciduous Magnolia, Fringe Tree, Japanese Maple.
7. Suggested evergreen or flowering shrubs are as follows: English Yew, Japanese Yew, Azalea, Chinese Holly, Rhododendron, Obelia, Cotoneaster, Forsythia, Viburnum, Winged Euonymus, Flowering Quince, Gray Owl Juniper. Low varieties shall be selected for parking lot plantings.

Landscape Plan

Phelps School

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