

MATCH LINE "A" - SEE SHEET 6

TRANSITIONAL	_ YARDS	1			
TRANSITIONAL YARD 3 - NORTH					
LINEAR FEET		585'			
REQUIRED			PROVID	PROVIDED	
WIDTH OF LANDSCAPE STRIP		15'	15'		
FENCE OR WALL HEIGHT		6'	6'	FENCE	
			NONE	WALL	
CANOPY TREE	(4 per 100 feet)	23	3		
UNDERSTORY TREE	(4 ner 100 feet)	23	17		

UNDERSTORY TREE - EXISTING (4 per 100 feet) 23 23 SEE SHEET 1 FOR MODIFICATION REQUEST

TRANSITION	AL YARD 3 - N	ORT	HEAST	Γ
LINEAR FEET		232'		
REQUIRED			PROVID)ED
WIDTH OF LANDSCAPE STR	IP	15'	10'	
FENCE OR WALL HEIGHT		6'	6'	FENCE
			NONE	WALL
CANOPY TREE	(4 per 100 feet)	9	4	
UNDERSTORY TREE	(4 per 100 feet)	9	10	
SHRUB	(4 per 100 feet)	9	24	
SEE SHEET 1 FOR MODIFICA	ATION REQUEST			

TRANSITIONAL YARD 3 - SOUTHEAST

LINEAR FEET		327		
REQUIRED			PROVID	ED
WIDTH OF LANDSCAPE STRIP		15'	0'	
FENCE OR WALL HEIGHT		6'	NONE	FENC
			NONE	WAL
CANOPY TREE	(4 per 100 feet)	13	0	
UNDERSTORY TREE	(4 per 100 feet)	13	0	
SHRUB	(4 per 100 feet)	13	0	
SEE SHEET 1 FOR MODIFICATION	ON REQUEST			

TRANSITIONAL YARD 3 - SOUTHWEST

LINEAR FEET		75'		
REQUIRED			PROVID	ED
WIDTH OF LANDSCAPE STRIP		15'	15'	
FENCE OR WALL HEIGHT		6'	6'	FEN
			NONE	WAL
CANOPY TREE	(4 per 100 feet)	3	3	
UNDERSTORY TREE	(4 per 100 feet)	3	3	
SHRUB	(4 per 100 feet)	3	8	
NO MODIFICATION NEEDED				

TRANSITIONAL YARD 3 - WEST LINEAR FEET REQUIRED PROVIDED WIDTH OF LANDSCAPE STRIP FENCE FENCE OR WALL HEIGHT

1.0 - 2.1' WALL CANOPY TREE (4 per 100 feet) 16 16 UNDERSTORY TREE (4 per 100 feet) 16 16 (4 per 100 feet) 16 28 SEE SHEET 1 FOR MODIFICATION REQUEST

. EASTERN AND NORTHWESTERN TRANSITIONAL YARD PROVIDED BY EXISTING VEGETATION AND/OR FUTURE DEVELOPMENT PARCEL. WHERE WALLS ARE LOCATED INSIDE THE TRANSITIONAL YARD A FENCE WILL BE ADDED IN ORDER TO MEET THE 6' HEIGHT REQUIREMENT.

10-YEAR TREE CANOPY CALCULATIONS

TREE	CANOPY REQUIRED					
	SITE AREA (DOES NOT INCLUDE ROW)				457,030 SF	
	TREE CANOPY COVERAGE REQUIRED PER ZO 4.5.6.A.				10 %	
	TOTAL CANOPY AREA REQUIRED				45,703 SF	
TREE	CANOPY PROVIDED					
	PLANT TYPE	STOCK SIZE	QUANTITY	CANOPY PER TREE	CANOPY PER TYPE	
	CANOPY TREE	2" CALIPER	42	200 SF	8,400 SF	
	UNDERSTORY TREE	2" CALIPER	108	100 SF	10,800 SF	
	SUBTOTAL CANOPY AREA PROVIDED THROUGH TREE PLANTING					
	SUBTOTAL CANOPY AREA PROVIDED THROUGH TREE PRESERVATION				37,000 SF	
	TOTAL CANOPY AREA PROVIDED			56,200 SF		
	TOTAL CANOPY COVERAGE PROVIDED				12.3 %	
	NOTE : THE FOLLOWING TREES ARE PROPOSED WITHIN THE ROW AND THEREFORE NOT INCLUDED IN THE ABOVE TREE CANOPY CALCULATIONS					
	CANOPY TREE	2" CALIPER	18			

STREET TREES REQUIRED:

MINIMUM 10' WIDE LANDSCAPE STRIP ALONG ALL STREETS 1 CANOPY TREE PER 40 LINEAR FEET ALONG ALL STREETS

STREET TREES PROVIDED: PER CITY PROVIDED DESIGN

4' WIDE LANDSCAPE STRIP ALONG ALL PUBLIC AND PRIVATE STREETS CANOPY TREES GREATER THAN EVERY 40 FEET

INTERIOR PARKING LOT LANDSCAPING REQUIRED: 1 CANOPY TREE FOR EVERY 10 SPACES

SEE SHEET 1 FOR MODIFICATION REQUEST.

INTERIOR PARKING LOT LANDSCAPING PROVIDED: 2 CANOPY TREES FOR 13 SPACES

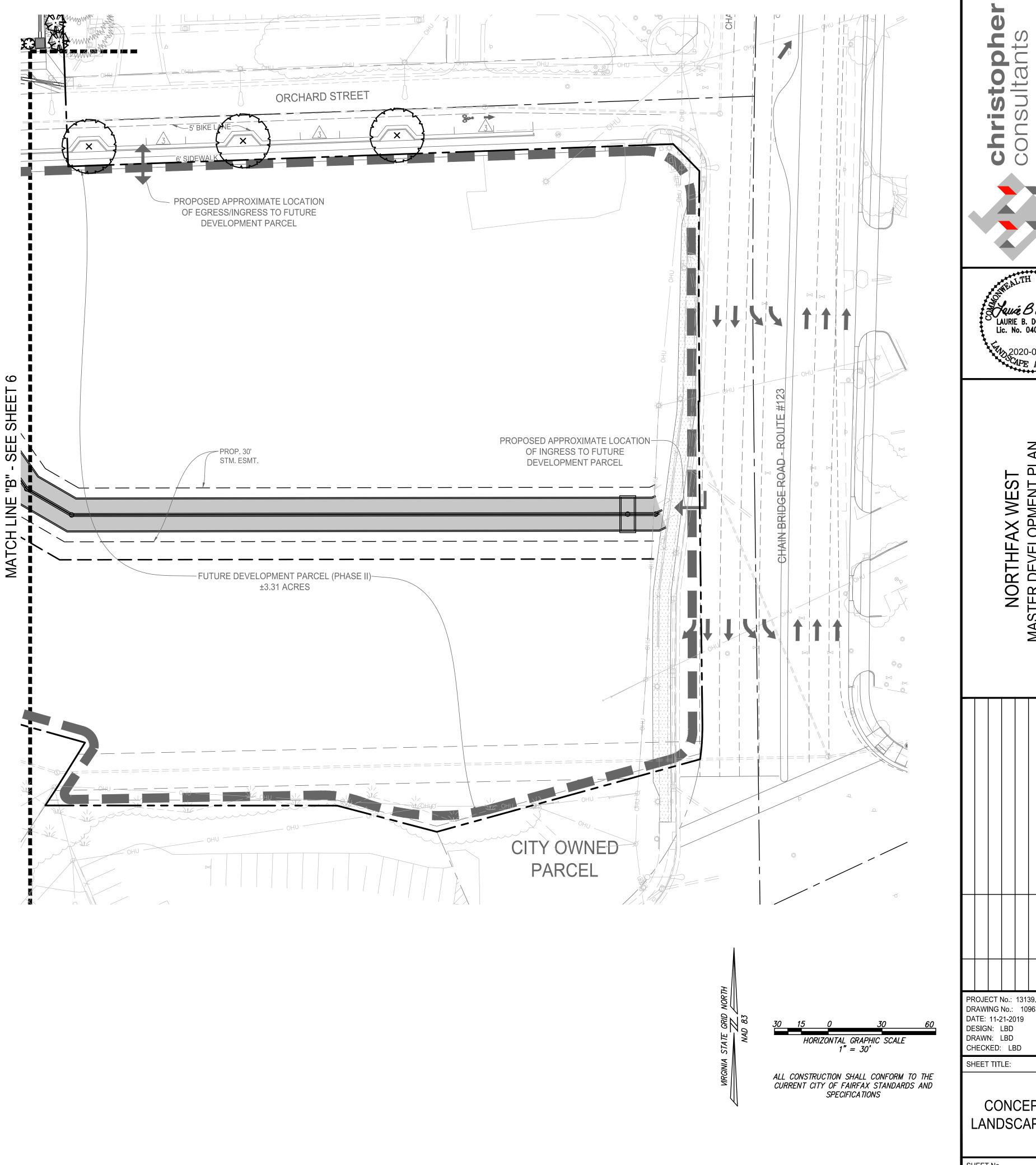
SEE SHEET 1 FOR MODIFICATION REQUEST.

PROPOSED VEGETATION

PROPOSED TREE SPECIES MAY INCLUDE BUT NOT LIMITED TO: RED MAPLE, SWAMP WHITE OAK, SHADBUSH SERVICEBERRY, AMERICAN HOLLY, AND EASTERN RED CEDAR.

PROPOSED SHRUB SPECIES MAY INCLUDE BUT NOT BE LIMITED TO: REDOSIER DOGWOOD, WINTERBERRY HOLLY, VIRGINIA SWEETSPIRE, SWEET PEPPERBUSH, AND NORTHERN SPICEBUSH.

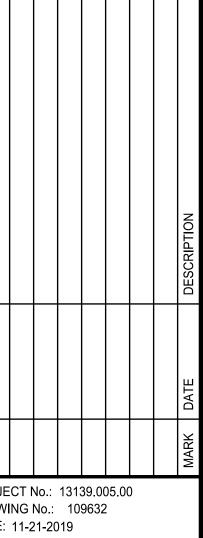
THESE SPECIES ARE SUBJECT TO CHANGE BASED ON AVAILBILITY AT THE TIME OF SITE PLAN PROCESS AND FINAL ENGINEERING. TREE AND SHRUB LOCATIONS SUBJECT TO CHANGE AT THE TIME OF SITE PLAN AND FINAL ENGINEERING.



SCALE: 1"=30'







PROJECT No.: 13139.005.00 DRAWING No.: 109632

CONCEPTUAL LANDSCAPE PLAN

SHEET No.

6A

<u>Specification:</u> This is a summary of christopher consultants, ltd. general landscape specification. All work shall follow the procedures outlined in the specifications and details contained herein, which are designed to exceed current industry standards. Should there exist a discrepancy between this specification and the included construction details, the written specification shall take precedence.

References: In lieu of providing comprehensive proprietary specifications, the following are referenced to be general default specifications with the following modifications. These modifications and the construction details shown in this plan set shall take precedence over the general referenced specifications.

- "Landscape Specification Guidelines" Landscape Contractors Association of MD, DC, VA Most current edition.
- "American Standard for Nursery Stock ANSI Z60.1" by AmericanHort Most Current Edition
- "TT-77 Recommended Turfgrass Cultivars for Certified Sod Production in Maryland" Maryland Turfgrass Council
- ""Landscape Architecture/Design Specifications for Compost Use" US Composting Council

If there are discrepancies or contradictions in specification sections or details, the stricter specification shall take precedence. A Request for Information (RFI) can also be submitted for clarification.

<u>List of Plant Material:</u> The contractor will verify plant quantities prior to bidding and any discrepancies shall be brought to the attention of the Owner's Representative. The Contractor shall furnish and install all plant materials required to complete the work as shown on the drawings. Quantities in the planting schedule shall take precedence over quantities graphically shown on the plan. Substitutions shall not be made without the written approval of the Owner's

<u>Plant Identification:</u> All trees shall be true to name as on plant schedule or shown on planting plans and shall be correctly labeled individually or in groups by genus, species, variety and cultivar. Labels are to remain intact until site is approved through agency inspection, substantial completion approval, or per Owner's Representative's instruction.

Plant Quality: All plant materials shall conform to the size and form standards set forth in the latest edition of AmericanHort's "American Standard for Nursery Stock - ANSI Z60.1". Above Ground: Trees shall be healthy with the color, shape, size, and distribution of trunk, stems, branches, buds and leaves typical of the plant specified. Any signs of stress, improper handling (wounds or broken branches), insect or disease damage, or dead/distorted branches should not be present. Trees shall have one central leader (unless otherwise specified) and grafts should be fully closed and visible above the soil line. Below Ground: A minimum of 3 structural roots should be reasonably distributed around the trunk (reject a tree with structural roots only on one side), the root crown should not be more than 2 inches below the soil line, the top 2 structural roots should not be more than 3 inches below the soil line when measured 4 inches away from the trunk. The top of the other structural root should not be more than 5 inches below the surface. The root system should be free of potentially stem-girdling or kinked roots above the root collar and main structural roots.

Inspection: Plants are to be inspected upon delivery to contractor by a contractor's representative and/or owner's representative. Trees not presenting proper form, incorrect variety, signs of poor health or over-stress, and girlding roots are to be rejected.

Storage & Transport: Plant materials should be protected from dessication during transport via breathable fabric covering the canopy and by watering rootball/pot thoroughly immediately prior to transport. Plant materials should be installed on day of delivery to site. If that is not possible, a temporary storage area can be constructed on-site. Plants are not to be stored on bare asphalt. If storage area is asphalt, cover bare asphalt with a layer of woodchips. Storage should be in shade, and plants be regularly watered at root-ball level, and spaced so foliage from one plant does not interfere with foliage of another. Tall plant materials are to remain upright during storage. Longer term storage plants are to be heeled-in or stored in mulch to the top of the container/root ball. Plant materials shall not be stored on-site for more than two weeks. Plants stored improperly or for too long may be subject to rejection and replacement dependent on ultimate planting condition.

<u>Planting:</u> Plantings shall be installed in accordance with details and specifications on this sheet. Details and specifications for other specific landscape items, such as tree preservation or erosion control may be found elsewhere in this drawing set on their own respective sheet. For items not specifically addressed by this plan set, refer to the latest edition of the "Landscape Specification Guidelines" developed by the Landscape Contractors Association of MD, DC, and VA. Should there be any ambiuguities or questions, please utilize the formal RFI/Submittal process.

Trees: The planting hole diameter is to be at a minimum three times the diameter of the root ball. The depth of the planting hole shall be dug so that the shoulder of the root ball is level with the existing grade leaving the root flare slightly higher. When planting on a slope, the depth of the hole shall be dug so that the bottom of the root flare is at the level of the existing grade at the sides of the hole. If the planting hole is mechanically dug, the hole is to be scarified by slightly enlarging hole by hand digging the sides and bottom to prevent glazing. The sides of the hole should be vertical or sloping outwards. Holes are not to be dug when soil is saturated. For balled and burlapped trees, the wire root ball cage is to be removed and burlap is to be cut and completely removed from the top and a minimum of 8" to 12" down the side of the root ball. Do not fold burlap down into hole, it must be removed. Any synthetic materials are to be completely removed from the trunk and root ball. Backfill in lifts using the same soil dug to create the hole, being careful not to over-compact the soil. Inoculate backfill soil or rootball with an approved balanced (Endo/Ecto) commercial mycorrhizae application. Do not amend or add fertilizer unless expressly specified to do so or is part of the approved mycorrhizae innoculant product. Do not place any soil on top of root ball. Trees are to be mulched to full depth specified immediately after planting. A ½" layer of approved compost is to be placed under the mulch layer. Do not place mulch against tree trunk.

Staking: Staking (if any) is to be installed per the accompanying details, utilizing tree webbing straps with grommets to prevent wire from coming in contact with the tree. While not preferred, full tree webbing systems are also permissible if approved through submittal, and installed per manufacturer's instructions. Wire is to be tensioned to allow for 1/2 inch of deflection up or down, and tension shall be rechecked and adjusted on a regular basis. Staking is to be removed as soon as possible after one year. GARDEN HOSE IS NOT TO BE UTILIZED FOR STAKING.

Irrigation: For permanent systems, irrigation should be largely installed prior to plant installation to avoid having to disturb planting beds or move plants to accommodate the installation of the irrigation system. For sites with no permanent irrigation system, Trees are to be irrigated until established by the use of temporary water bags through one growing year or until established. Shrubs, perennial beds, and lawns are to be thoroughly hand-watered or by movable temporary irrigation (sprinklers or drip hose) as necessary to reflect local weather conditions. Watering is to be deep into the soil and infrequent, as opposed to light surficial watering performed often.

Shrubs: For container shrubs, the planting hole is to be dug 3 times the width of the intact container. The container is to be completely removed and the sides of the soil/root clump scarified with a sterile sharp knife. They shall be planted so that the top of the soil level of the container is no more than 1.5" above the original grade. For balled and burlapped shrubs, remove as much burlap as possible from the top and sides of the rootball. Do not fold burlap into hole. Plant with the root flare slightly higher than the surrounding grade. Backfill with soil dug to create the hole. Do not cover top of root ball/clump.

Ground Covers/Perennials: Beds are to be prepared by tilling well to a minimum depth of 6", and soils shall be amended by incorporating 1" of compost meeting the US Composting Council reference specification, 1" of worm castings and/or well decomposed commercially produced compost, or a Class A biosolid also meeting the referenced US Composting Council specification prior to planting. Apply 3" of shredded non-dyed hardwood mulch immediately after planting.

Compacted or Poorly Drained Soils: For sites with heavily compacted or poorly draining soils, alternate planting methods will need to be employed. Contact project Landscape Architect for additional planting details and specifications should either unforeseen condition be encountered.

Conflicts with Existing Roots: Proposed landscape may be shown to be planted in the Critical Root Zones of existing large trees. Should, in the course of planting, large woody roots be discovered belonging to adjacent large trees that are to be preserved, shift the planting location of the tree to be planted to avoid cutting the woody root. Should a suitable planting location not be found within the proximity of where a proposed tree is to be planted, contact the project landscape architect for alternate planting location and recording of the discrepancy for landscape inspection/approval purposes.

Irrigation: New plant materials are to be watered as necessary to maintain health. If no permanent irrigation system is installed, trees are to be watered until established through the use of temporary water bags. Shrubs, perennials, and ground covers shall be hand-watered. Infrequent deep watering is preferred to more frequent quick/shallow watering.

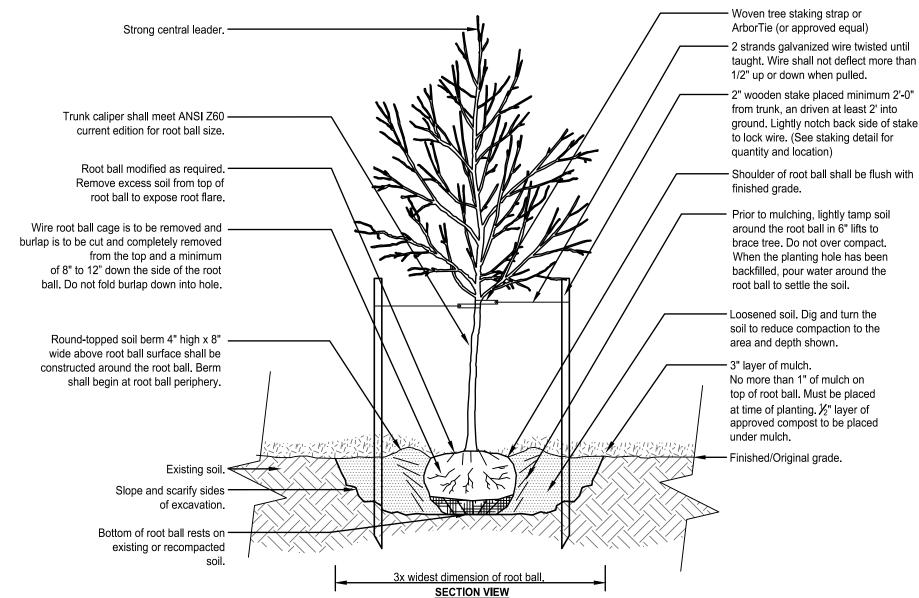
Lawn Areas

Seeded Lawn Area: Areas to be seeded shall have planting soil tilled to a depth of 6" and free of stones greater than 1" diameter or length. Any amendments that are to be added should be tilled into soil prior to seeding. A seed mix composition chart shall be submitted for review prior to installation. Unless specified by the Owner's Representative, the seed mix must contain a minimum of three cultivars or types of grass in the blend, chosen from the recommended cultivars list of the most recent "TT-77 Recommended Turfgrass Cultivars for Certified Sod Production in Maryland" document produced by the University of Maryland and the Maryland Turfgrass Council. Use of cultivars also appearing on the Turfgrass Water Conservation Alliance approved list is encouraged. Seeds coatings that aid in germination, moisture retention and prevent loss to bird consumption are acceptable. Seeded areas are to be covered by a light and loose layer of rapidly degradable mulch such as straw or hydraulically applied cellulose. Use of erosion control blankets or any synthetic webbing is not permissible for lawn areas unless specified by the Owner's Representative.

Sodded Lawn Area: Unless a proprietary sod is specified by the Owner's Representative, sod must be of a Maryland or Virginia certified variety suited to the specific growing requirements of where it is to be installed. Grower and variety to be submitted to Owner's Representative for review prior to ordering. Certification documentation for all sod is to be provided to the Owner's Representative upon delivery. For installation on slopes, the Contractor shall use biodegradable sod spikes to secure sod in place. Metal sod staples are not to be utilized for installation.

<u>Invasive Species:</u> Existing invasive species are to be removed utilizing appropriate approved methods including in the invasive species management plan (if applicable) prior to the installation of new plant materials, and is subject to inspection, and is a factor in the Certification of Installation.

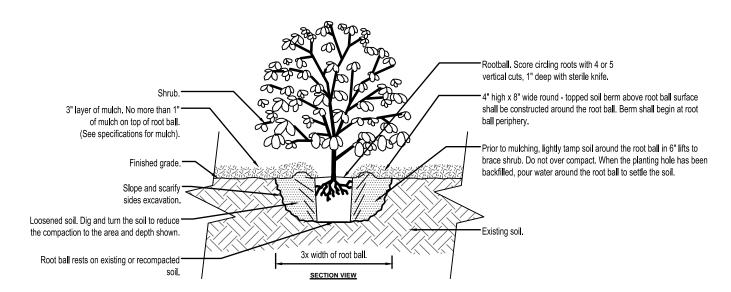
NOTE: These specifications and details are based on those developed by the Urban Tree Foundation, and have been improved to reflect current research into effective planting. The ISA has also replaced their own details and now reference the UTF details. The specifications and details illustrated in this plan set exceed the standards set in the ISA, LCA, and local jurisdictional planting details and specifications.



DECIDUOUS TREE PLANTING DETAIL

Woven tree staking strap or ArborTie (or approved equal) Central leader. (See crown observations detail). 2 strands galvanized wire twisted until taught. Wire shall not deflect more than 1/2" up or down when pulled. - 2" wooden stake placed minimum 2'-0" from trunk, an driven at least 2' into Trunk caliper shall meet ANSI Z60 ground. Lightly notch back side of stake current edition for root ball size. to lock wire. (See staking detail for quantity and location) Root ball modified as required. - Shoulder of root ball shall be flush with Remove excess soil from top of root ball to expose root flare Prior to mulching, lightly tamp soi Wire root ball cage is to be removed and around the root ball in 6" lifts to burlap is to be cut and completely removed brace tree. Do not over compact from the top and a minimum When the planting hole has bee of 8" to 12" down the side of the root backfilled, pour water around th ball. Do not fold burlap down into hole. Loosened soil. Dig and turn the soil to reduce compaction to the Round-topped soil berm 4" high x 8" area and depth shown. wide above root ball surface shall be 3" laver of mulch. onstructed around the root ball. Berm No more than 1" of mulch on shall begin at root ball periphery. top of root ball. Must be placed at time of planting. 1/2" of approve compost to be placed under mulch Existing soil. Bottom of root ball rests on existing or recompacted

EVERGREEN TREE PLANTING DETAIL

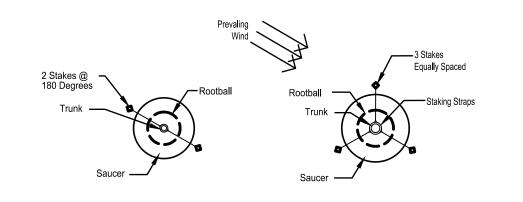


Notes:

1. For ball and burlapped shrubs, remove completely as much burlap as possible, minimum halfway down the side of the rootball. Do not fold burlap down into hole.

2. See specifications for further requirements related to this detail.

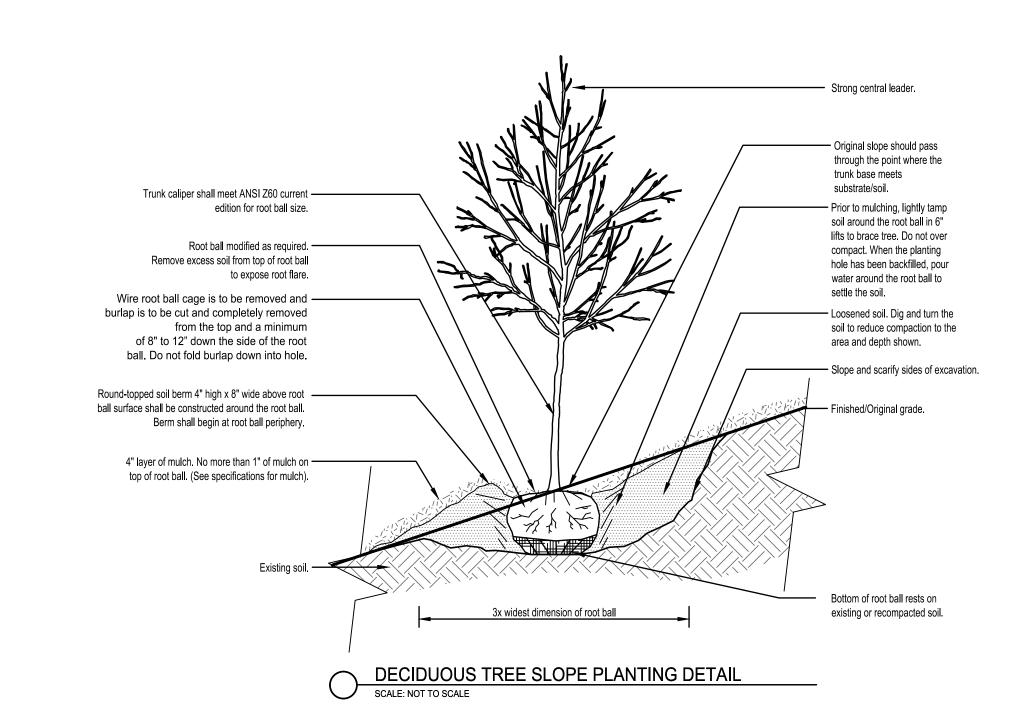
SHRUB PLANTING DETAIL SCALE: NOT TO SCALE

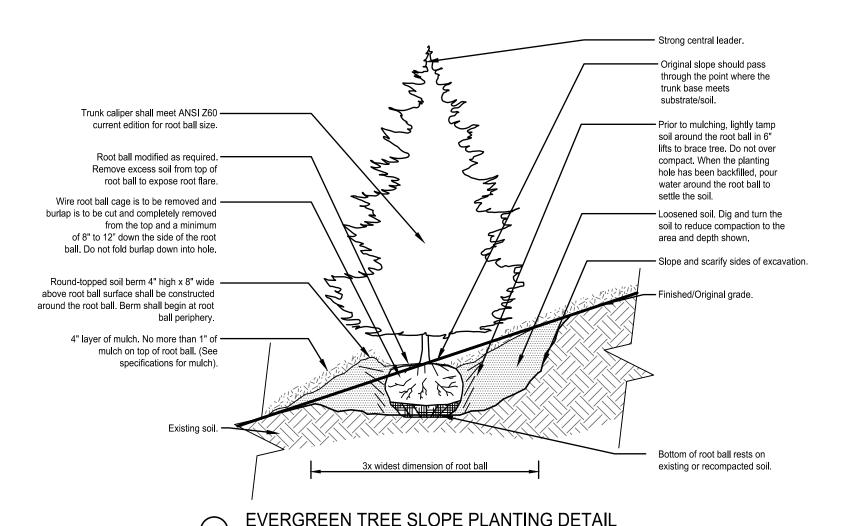


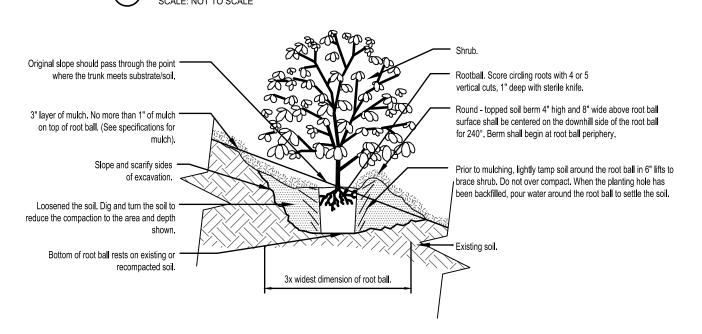
For Trees Up to 2.75" Diameter For Trees 2.75" Diameter and Greater

1. Utilize only Arbor-tie or approved equal or staking straps against tree trunks.
2. Reference manufacturer's detail of approved system for installation instructions.
3. Wire tension (if used) should not allow greater than 1/2" of play in any direction.
4. Staking should be removed on year after planting or as instructed.

TREE STAKING DETAIL







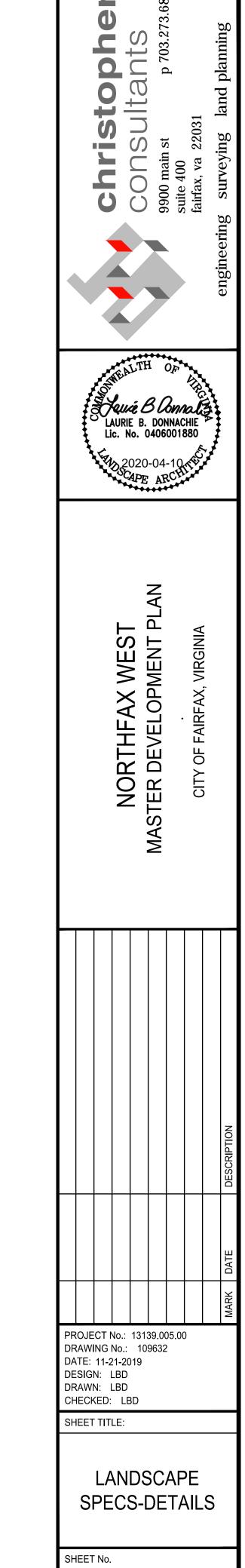
Notes:

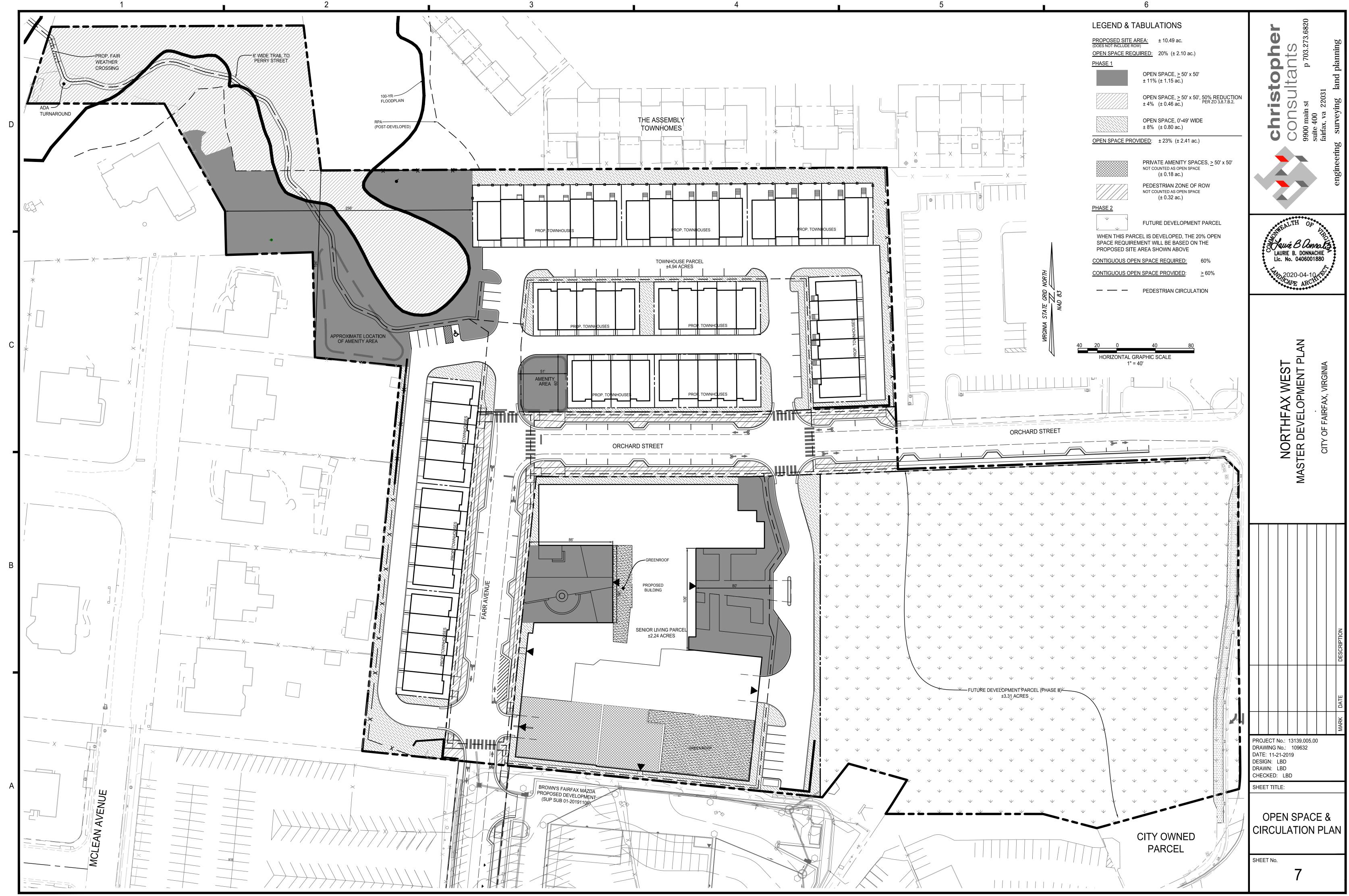
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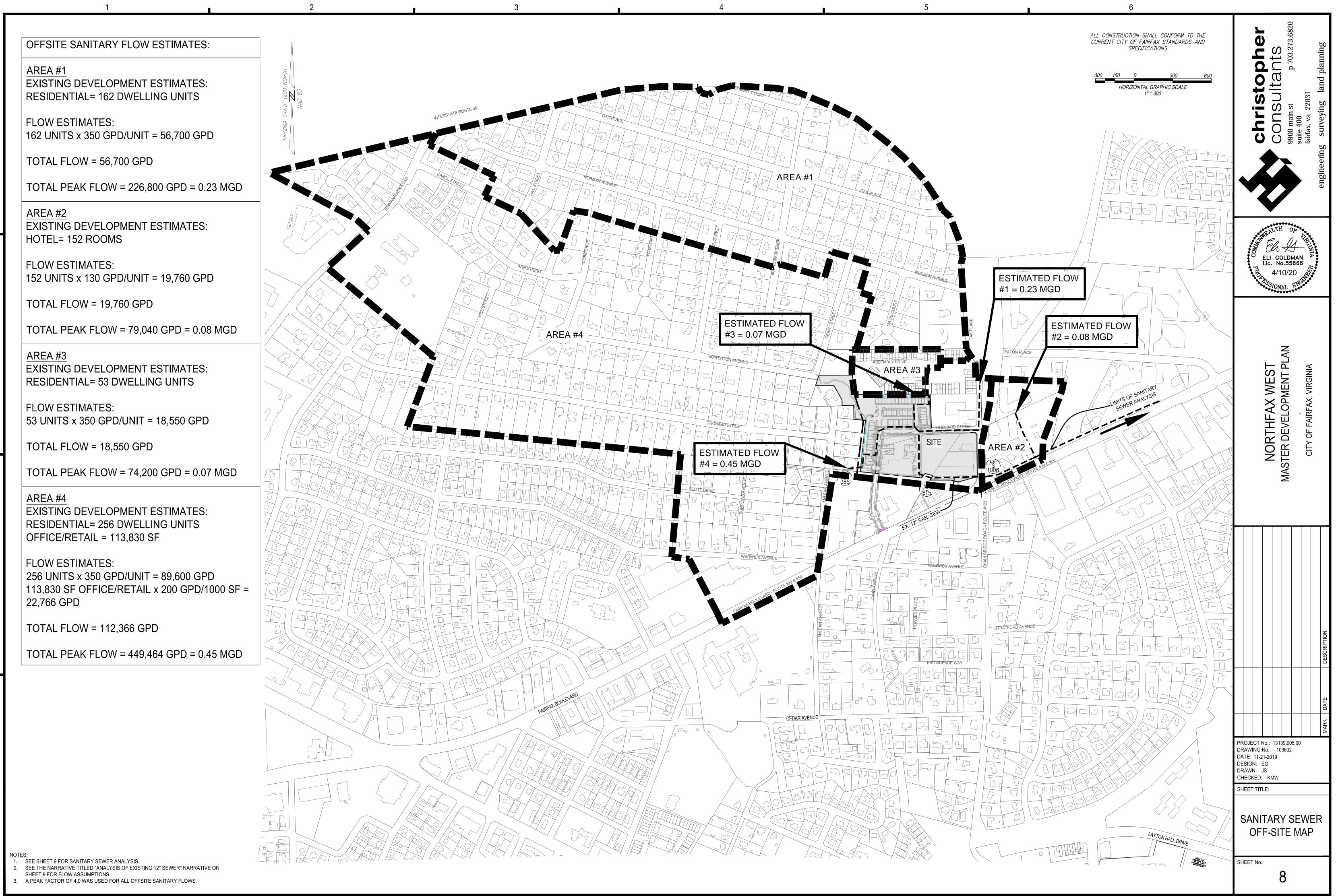
2. See written specifications for further requirements related to this detail.

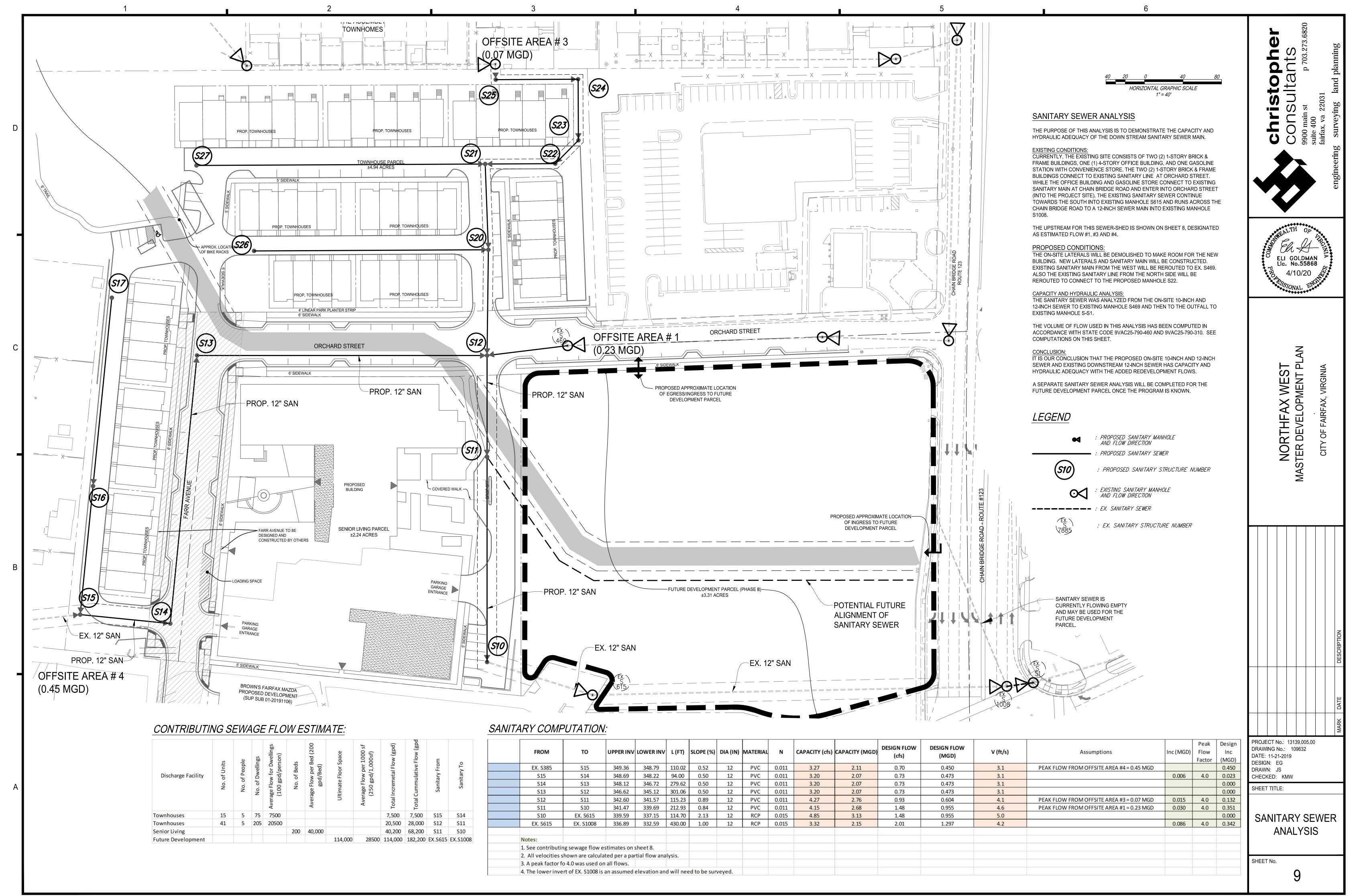
SHRUB SLOPE PLANTING DETAIL

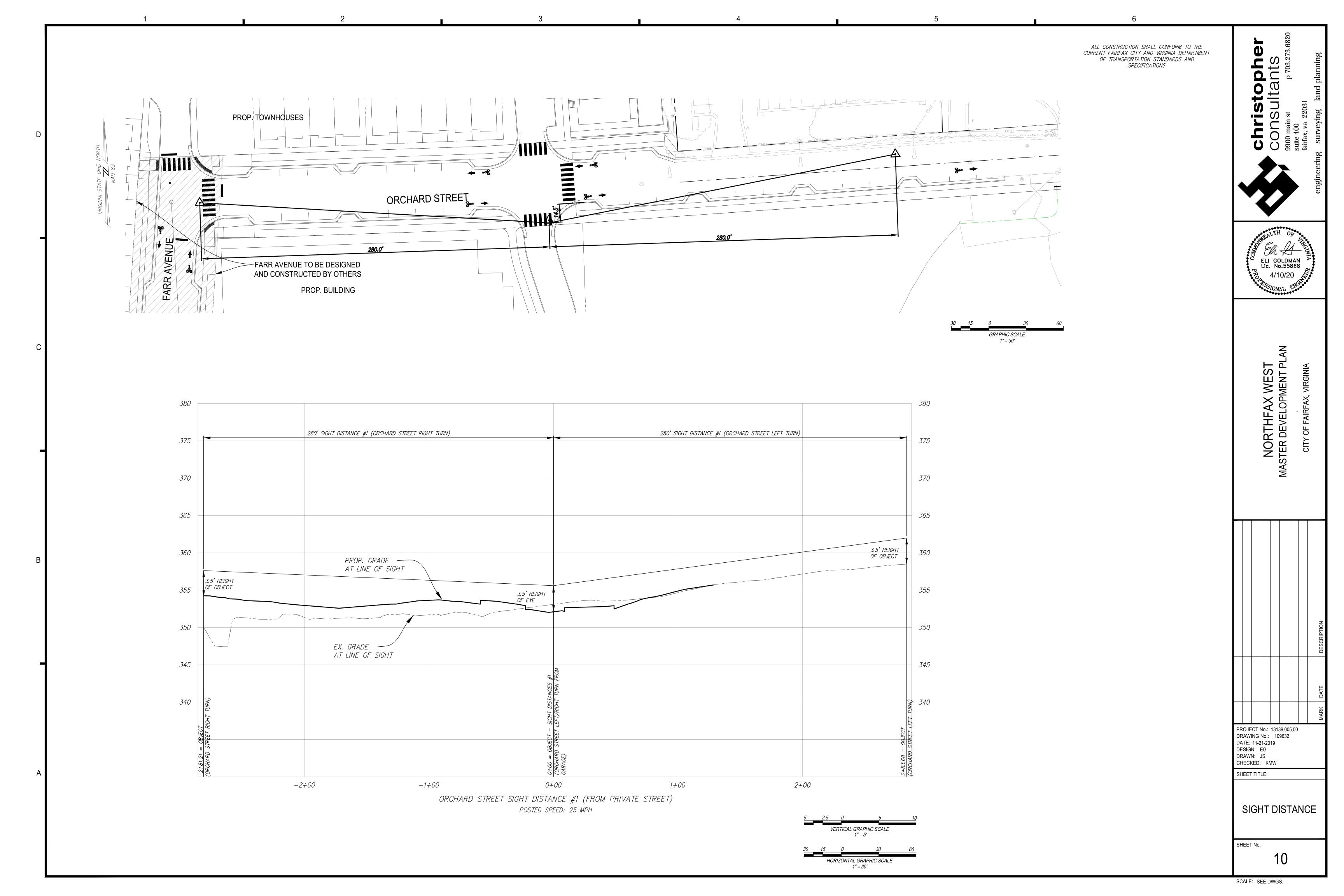
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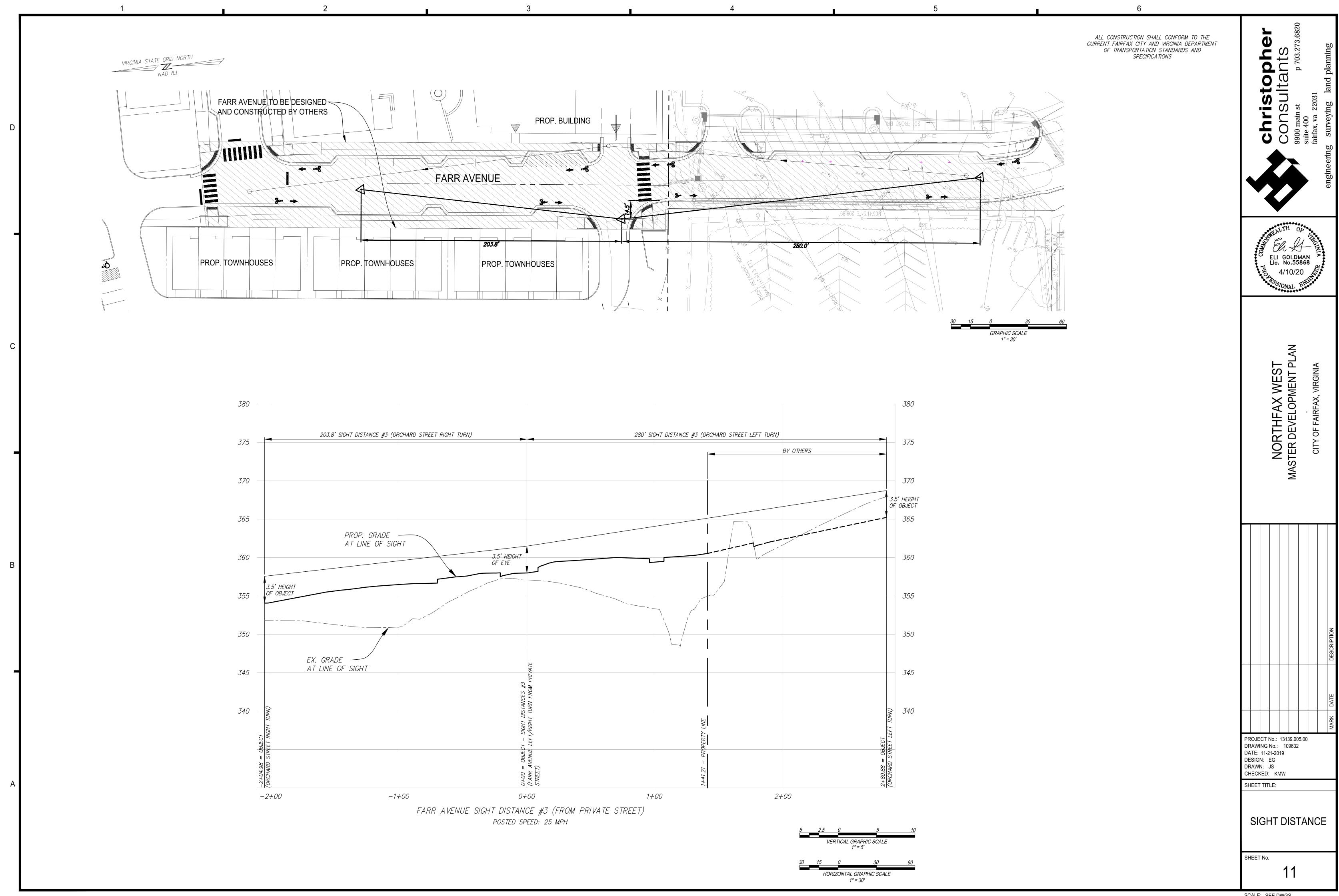




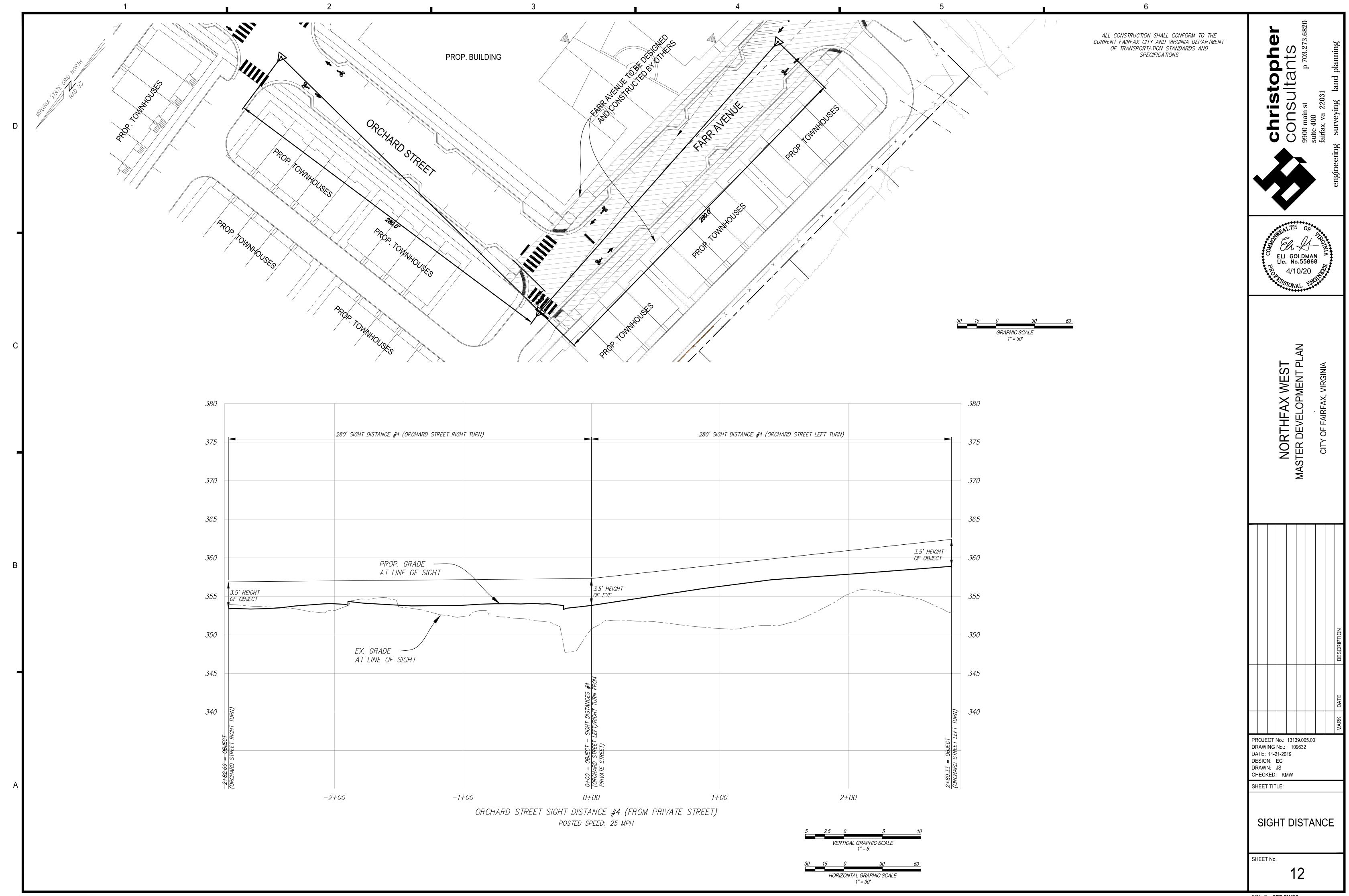


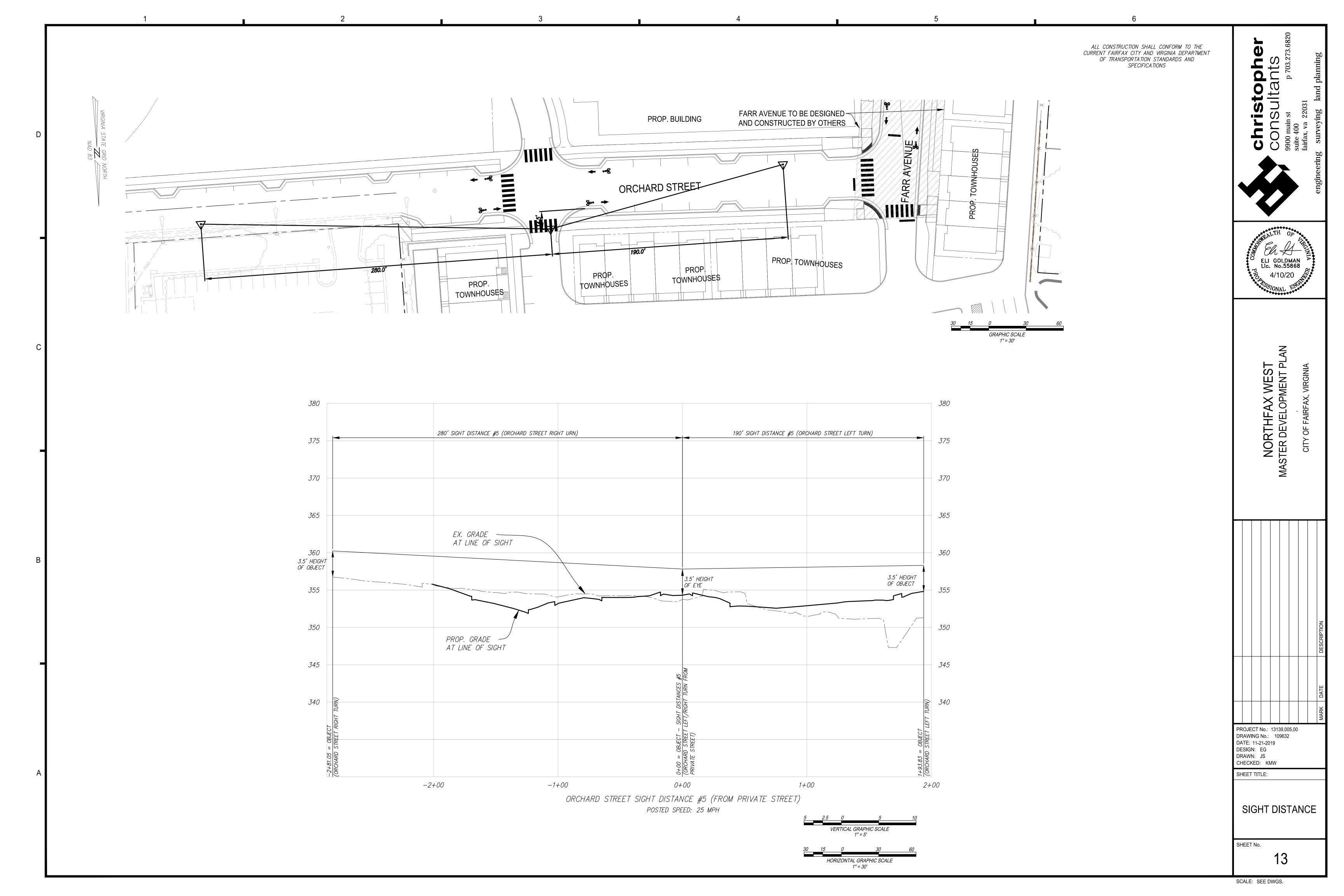


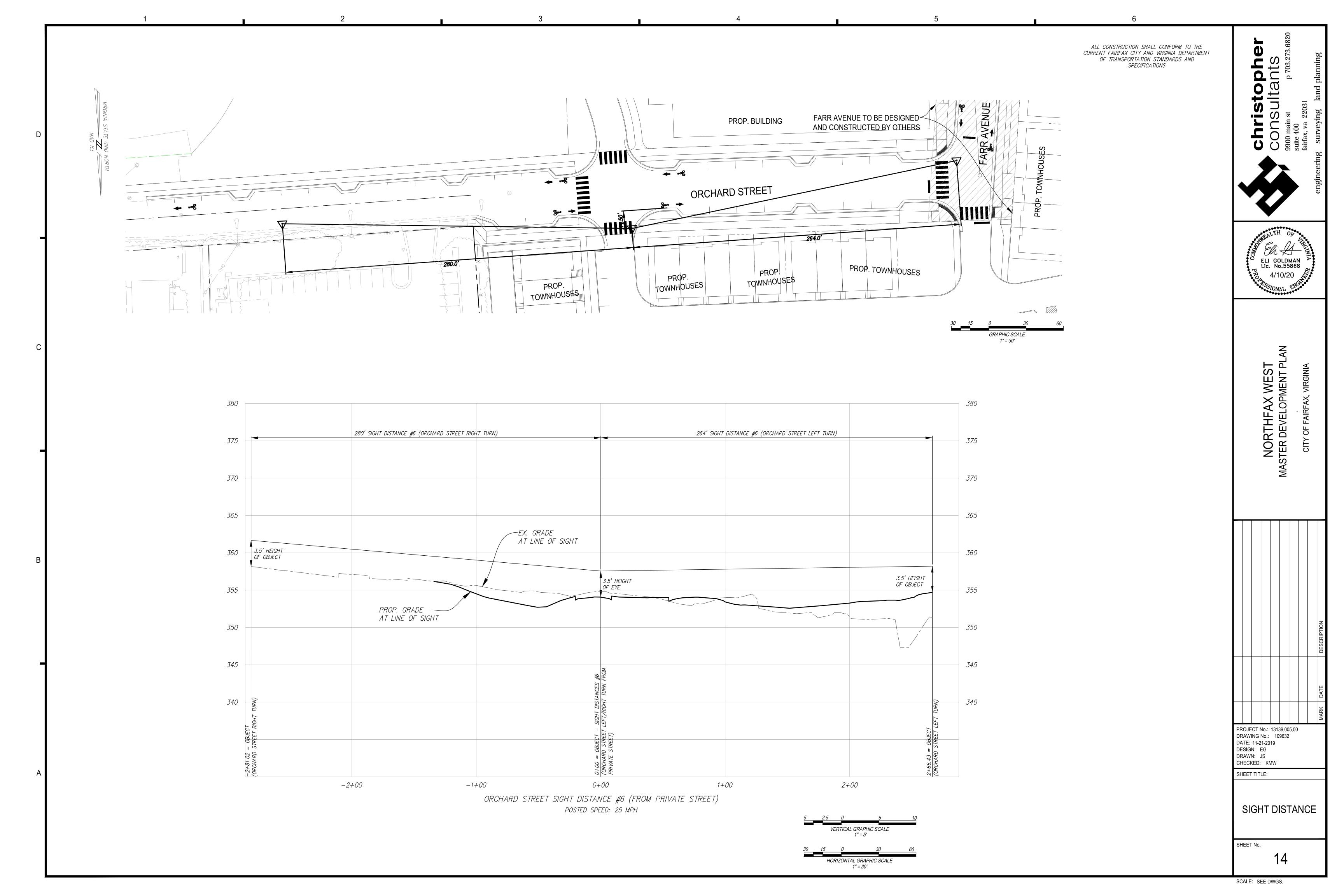


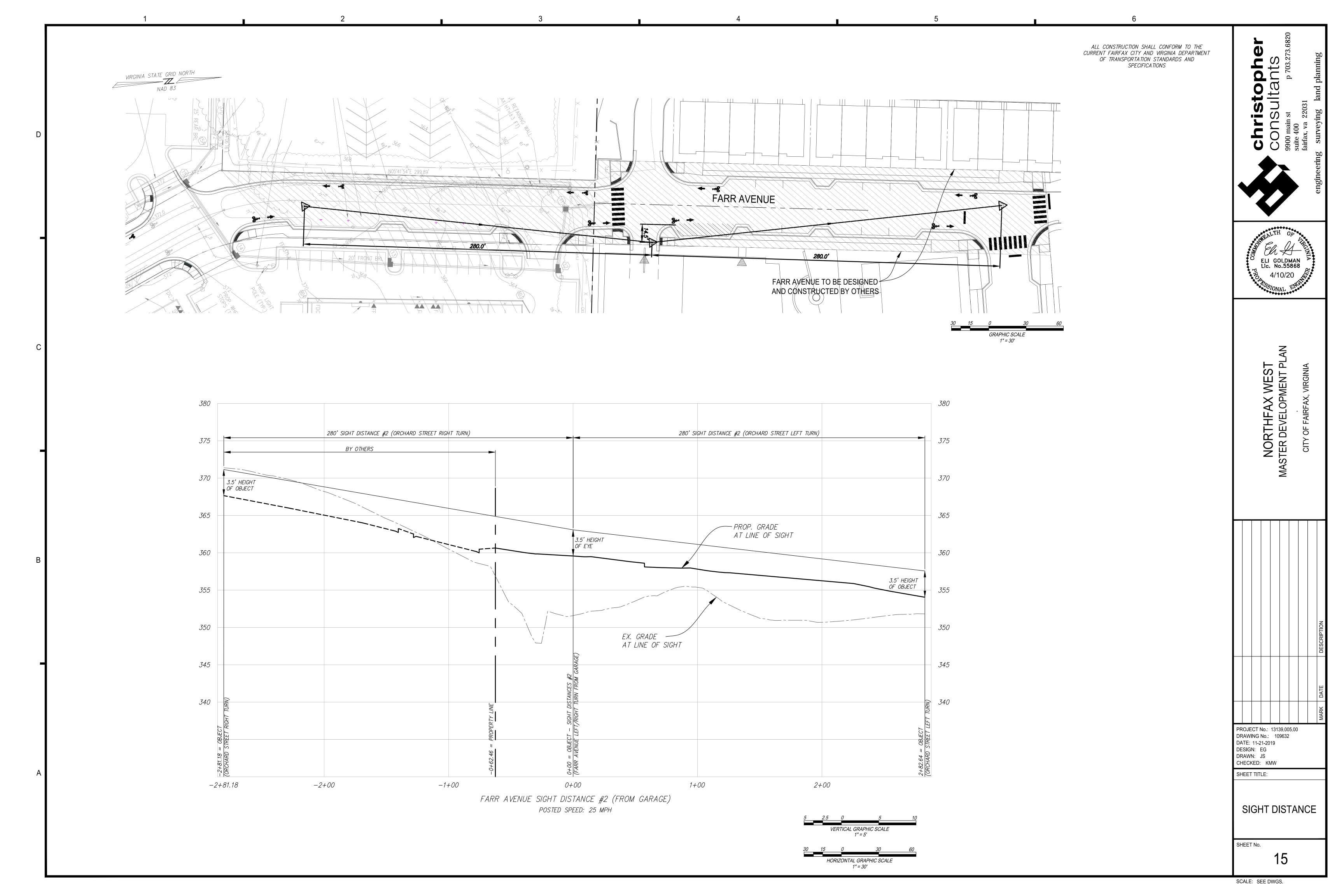


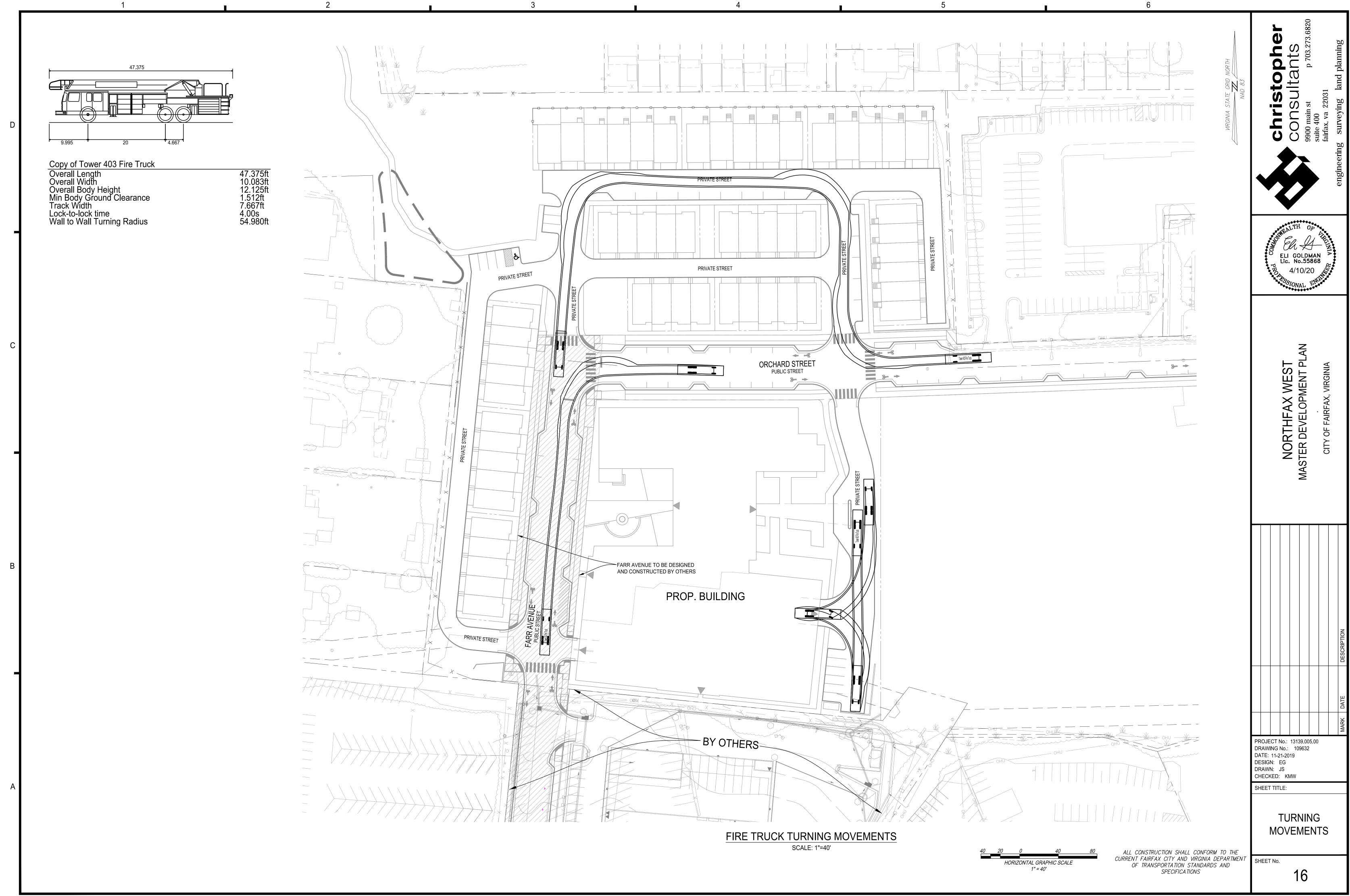
SCALE: SEE DWGS.











SCALE: 1"=40'

