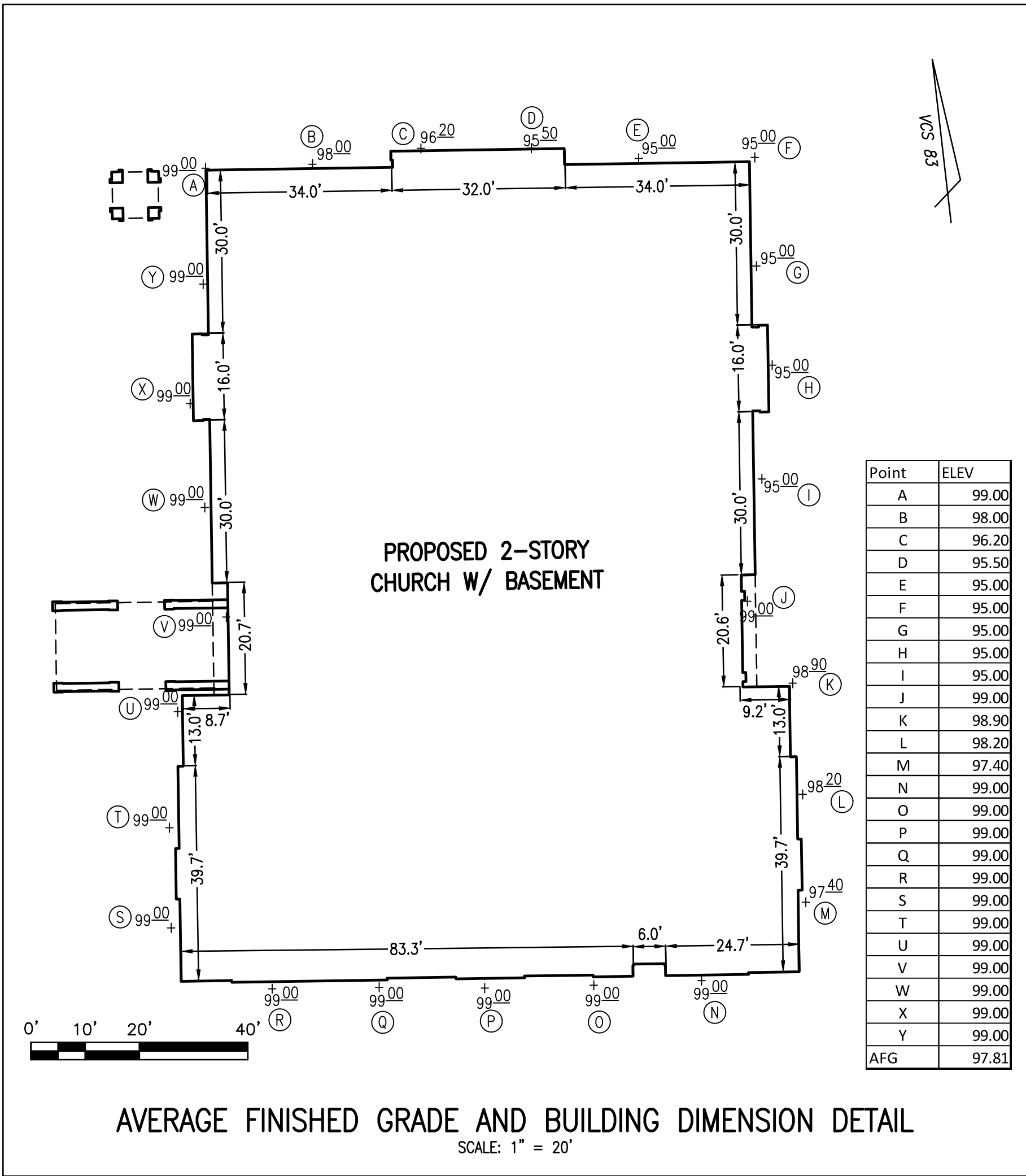
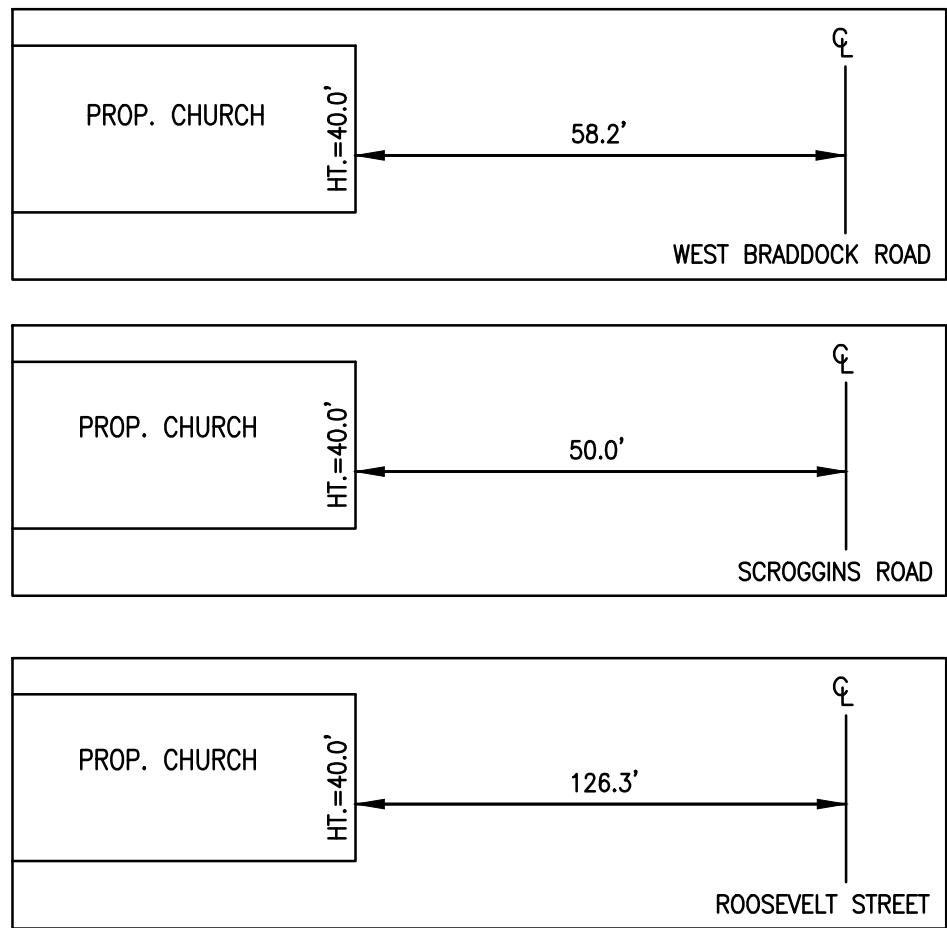




SECTION 6-403 COMPLIANCE NOTE:
SECTION 6-403 STATES "IN ALL HEIGHT DISTRICTS, THE ALLOWABLE HEIGHT OF A BUILDING AT ANY POINT SHALL NOT EXCEED TWICE THE DISTANCE FROM THE FACE OF THE BUILDING AT THAT POINT TO THE CENTERLINE OF THE STREET FACING SUCH BUILDING." SEE DETAILS BELOW FOR SECTION SHOWING COMPLIANCE.

SECTION 6-403 DETAILS:
NOT TO SCALE



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APPROVED
SPECIAL USE PERMIT NO. _____

DEPARTMENT OF PLANNING & ZONING

DIRECTOR _____ DATE _____

DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES
SITE PLAN NO. 2018-0021

DIRECTOR _____ DATE _____

CHAIRMAN, PLANNING COMMISSION _____ DATE _____

DATE RECORDED _____

INSTRUMENT NO. _____ DEED BOOK NO. _____ DATE _____

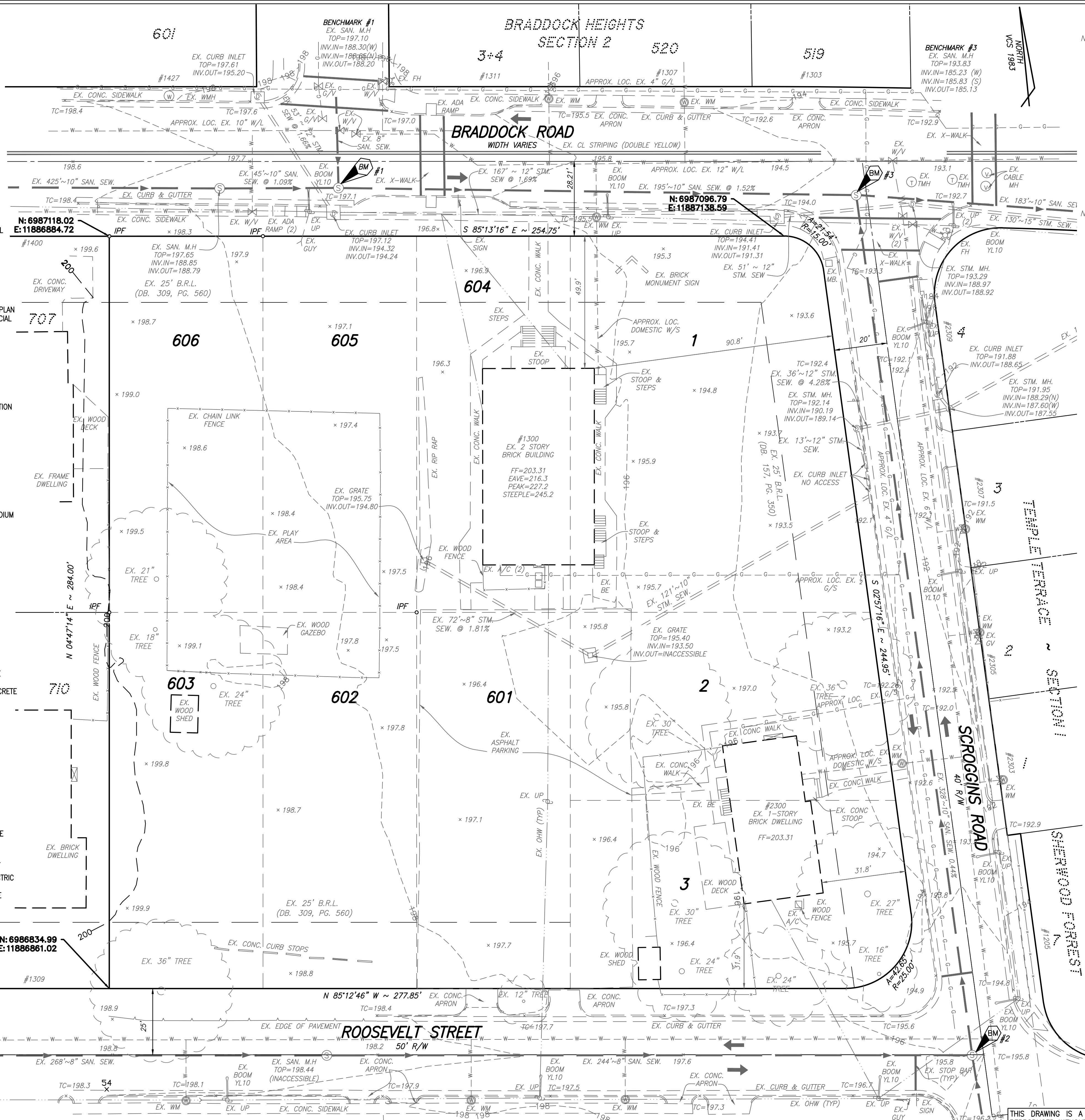
DATE	REVISION

DESIGN: VMM
CHECKED: VMM
SCALE: AS NOTED
DATE: AUG. 19, 2019

CONTEXTUAL
PLAN

TEXT LEGEND

°= DEGREES
 ' = MINUTES (OR FEET)
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GENERAL NOTES:

- TAX MAP: #032.02-05-06, 07, 08, 09, 10, 11, 12, 13, 14
- ZONE: R-8
- OWNER: ALEXANDRIA PRESBYTERIAN CHURCH
2405 RUSSELL ROAD
ALEXANDRIA, VA 22301
INSTRUMENT #150007917
- PLAT SUBJECT TO RESTRICTIONS OF RECORD.
- TOTAL SITE AREA = 81,348 SF OR 1.8675 AC.
- TOPOGRAPHIC SURVEY FIELD RUN BY THIS FIRM. VERTICAL DATUM = NAVD '88 PER CITY OF ALEXANDRIA MONUMENT 620, ELEVATION = 171.30 FEET, AND MONUMENT 619, ELEVATION = 175.19 FEET
- TITLE REPORT FURNISHED BY WALKER TITLE, LLC., CASE NO. A1800826 DATED AUGUST 20, 2018 AND IS RELIED UPON AS ACCURATE BY THE SURVEYOR.
- THERE ARE NO RESOURCE PROTECTION AREAS (RPA'S), TIDAL WETLANDS, SHORES, TRIBUTARY STREAMS, FLOOD PLAINS, OR BUFFER AREAS FOR SHORES, WETLANDS, CONNECTED TIDAL WETLANDS, ISOLATED WETLANDS OR HIGHLY ERODIBLE/PERMEABLE SOILS LOCATED ON THIS SITE.
- THERE ARE NO KNOWN CONTAMINATED AREAS, CONTAMINATED SOILS OR ENVIRONMENTAL ISSUES ASSOCIATED WITH THIS SITE.
- THE "GENERALIZED ALEXANDRIA SOILS MAP" IDENTIFIES THE SOILS FOR THIS SITE AS LEONARDTOWN SILT LOAM, LEONARDTOWN SILT LOAM OCCUPIES THE HIGHEST AREAS OF THE CITY FROM SHUTTERS HILL EXTENDING NORTHWEST.
- THIS SITE DOESN'T CONTAIN AREAS PREVIOUSLY MAPPED AS MARINE CLAYS.

TOPOGRAPHIC NOTE:

THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF ROBERTO TORRES, LS FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THE IMAGERY AND/OR ORIGINAL DATA WAS OBTAINED ON SEPTEMBER 19, 2018; AND THIS PLAT, MAP OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.

EXISTING CONDITIONS SURVEY NOTES:

- UTILITY INFORMATION, AS SHOWN ON THIS PLAN, IS TAKEN FROM THE RECORDS AND/OR FIELD SURVEY COMPLETED AND CANNOT BE GUARANTEED. FOR EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES, NOTIFY "MISS UTILITY" AT 1-800-552-7001, 72 HOURS BEFORE THE START OF ANY EXCAVATION OR CONSTRUCTION.
- LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR/ENGINEER SHOULD DIG TEST PITS BY HAND AT ALL UTILITY CROSSINGS TO VERIFY EXACT LOCATION.

CIVIL LEGEND

ITEM	EXISTING	PROPOSED
CURB & GUTTER		
SIDEWALK		
FIRE HYDRANT		
STRUCTURES		
WATER MAINS		
GAS MAINS		
TELEPHONE LINES		
STORM SEWER		
SANITARY SEWER		
PAVING		
FENCES		
POWER LINES		
SPOT ELEVATIONS	+ 124.5	+ 124.5
CONTOURS	- - - 124 - - -	- - - 124 - - -
BUILDING ENTRANCES		
UTILITY POLE		
LIGHT POLE		

UTILITY OWNERSHIP NOTE:

- GAS: ALL GAS LINES SHOWN ON THIS PLAN ARE OWNED AND MAINTAINED BY WASHINGTON GAS COMPANY. CONTACT: KEN MCCONKEY 703-750-4756; ADDRESS: WASHINGTON GAS, 6801 INDUSTRIAL ROAD, SPRINGFIELD, VA 22151
- ELECTRIC: ALL ELECTRIC UTILITIES SHOWN ON THIS PLAN ARE OWNED AND MAINTAINED BY DOMINION VIRGINIA POWER. ANY RELOCATION OF EXISTING POLES AND LINES WILL BE COORDINATED WITH DOMINION VIRGINIA POWER. CONTACT: 1-866-366-4357; ADDRESS: DOMINION POWER, P.O. BOX 26666, RICHMOND, VA 23261.
- WATER: ALL EXISTING WATER LINES AND FIRE HYDRANTS SHOWN ON THIS PLAN ARE OWNED AND MAINTAINED BY VIRGINIA AMERICAN WATER COMPANY (V.A.W.C.). PROPOSED WATER SERVICES FROM METERS TO THE PROPOSED BUILDINGS ARE OWNED AND MAINTAINED BY THE PROPERTY OWNER. CONTACT: NETWORK SUPERVISOR FOR THE SOUTHEAST REGION HAO (STEVEN) CHEN 703-706-3889; ADDRESS: VIRGINIA AMERICAN WATER COMPANY, 2223 DUKE STREET, ALEXANDRIA, VA 22314.
- SANITARY SEWER: ALL EXISTING SANITARY SEWER MAINS SHOWN ON THIS PLAN ARE OWNED AND MAINTAINED BY THE CITY OF ALEXANDRIA. THE PROPOSED SANITARY LATERAL WILL BE OWNED AND MAINTAINED BY THE PROPERTY OWNER. CONTACT: PUBLIC WORKS SERVICES, 2900 BUSINESS CENTER DRIVE, ALEXANDRIA, VA. TELEPHONE: 703-746-4357.
- STORM SEWER: ALL EXISTING AND PROPOSED STORM SEWER LOCATED IN THE PUBLIC RIGHT-OF-WAY SHOWN ON THIS PLAN IS OWNED AND MAINTAINED BY THE CITY OF ALEXANDRIA. ANY PROPOSED ON-SITE STORM SEWER WILL BE MAINTAINED BY THE PROPERTY OWNER. CONTACT: PUBLIC WORKS SERVICES, 2900 BUSINESS CENTER DRIVE, ALEXANDRIA, VA. TELEPHONE: 703-746-4357.
- TELEPHONE: ALL TELEPHONE LINES ARE OWNED BY VERIZON. CONTACT: SECTION MANAGER MIKE TYSINGER 804-772-6625; ADDRESS: VERIZON VIRGINIA, INC., 3011 HUNGARY SPRING ROAD, 2ND FLOOR, RICHMOND, VA 23228.

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APPROVED

SPECIAL USE PERMIT NO. _____

DEPARTMENT OF PLANNING & ZONING

DIRECTOR _____ DATE _____

DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES

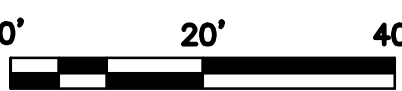
SITE PLAN NO. 2018-0021

DIRECTOR _____ DATE _____

CHAIRMAN, PLANNING COMMISSION _____ DATE _____

DATE RECORDED _____

INSTRUMENT NO. _____ DEED BOOK NO. _____ DATE _____



R.C. FIELDS & ASSOCIATES, INC.
 ENGINEERING • LAND SURVEYING • PLANNING
 700 S. Washington Street, Suite 220
 Alexandria, Virginia 22314
 (703) 549-6422

Commonwealth of Virginia
Andrea Spruch
 Lic. No. 047853
 AUGUST 22, 2019
 PROFESSIONAL ENGINEER

DEVELOPMENT PRELIMINARY SITE PLAN
ALEXANDRIA PRESBYTERIAN CHURCH
 1300 WEST BRADDOCK ROAD
 CITY OF ALEXANDRIA, VIRGINIA

DATE	REVISION

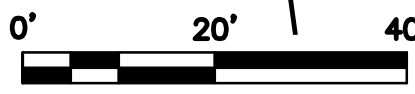
DESIGN: VMM
 CHECKED: VMM
 SCALE: 1" = 20'
 DATE: AUG. 19, 2019

EXISTING
 CONDITIONS

SHEET **3** OF **13**

FILE: **18-193**

S = DEGREES
 S' = MINUTES (OR FEET)
 S" = SECONDS (OR INCHES)
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1. TAX MAP: #032.02-05-06,07,08,09,10,11,12,13,14
2. ZONE: R-8
3. OWNER: ALEXANDRIA PRESBYTERIAN CHURCH
2405 RUSSELL ROAD
ALEXANDRIA, VA 22301
INSTRUMENT #150007917
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9. THE "GENERALIZED ALEXANDRIA SOILS MAP" IDENTIFIES THE SOILS FOR THIS SITE AS LEONARDTOWN SILT LOAM. LEONARDTOWN SILT LOAM OCCUPIES THE HIGHEST AREAS OF THE CITY FROM SHUTTERS HILL EXTENDING NORTHWEST.

THE EXISTING USE (CHURCH/RELIGIOUS) PRODUCES AN AVERAGE DAILY FLOW OF APPROXIMATELY 2,760 GALLONS PER DAY (3 GPD/SEAT X 230 SEATS X 4.0 PEAK FLOW FACTOR). THE PROPOSED USE (CHURCH/RELIGIOUS) PRODUCES 5,880 GALLONS PER DAY (3 GPD/SEAT X 490 SEATS X 4.0 PEAK FLOW FACTOR). SINCE THE TOTAL FLOW FROM THE PROPOSED USE DOES NOT EXCEED 10,000 GPD, A DETAILED SANITARY SEWER OUTFALL ANALYSIS IS NOT REQUIRED.

TRASH WILL BE WHEELED OUT TO THE CURB ALONG THE PARKING LOT TRAVEL LANE ACCESSED OFF OF SCROGGINS ROAD FOR WEEKLY PICKUP. SEE TURNING MOVEMENTS ON SHEET 11.

THE PROPOSED BUILDING WILL UTILIZE A NEW SANITARY LATERAL, A NEW DOMESTIC SERVICE LINE, AND A NEW FIRE SERVICE. ALL PROPOSED SERVICES SHALL CONNECT TO THE EXISTING MAINS LOCATED IN THE SCROGGINS ROAD RIGHT-OF-WAY.

FIRE TRUCK ACCESS WILL BE PROVIDED VIA THE SITE FRONTAGE ALONG THE BRADDOCK ROAD AND SCROGGINS ROAD RIGHT-OF-WAYS. A FIRE SAFETY PLAN WILL BE INCLUDED WITH SUBSEQUENT SUBMISSIONS. ALL EXISTING FIRE HYDRANTS SHALL REMAIN IN SERVICE AND UNOBSTRUCTED DURING CONSTRUCTION.

THE APPLICANT/DEVELOPER SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-746-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVIES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.

THE APPLICANT/DEVELOPER SHALL NOT ALLOW ANY METAL DETECTION OR OTHER ARTIFACT COLLECTION TO BE CONDUCTED ON THE PROPERTY, UNLESS AUTHORIZED BY ALEXANDRIA ARCHAEOLOGY. FAILURE TO COMPLY SHALL RESULT IN PROJECT DELAYS.

ALL REQUIRED ARCHAEOLOGICAL PRESERVATION MEASURES SHALL BE COMPLETED IN COMPLIANCE WITH SECTION 11-411 OF THE CITY OF ALEXANDRIA ZONING ORDINANCE.

A. ENSURE ALL DISCHARGES ARE IN ACCORDANCE WITH CITY OF ALEXANDRIA CODE TITLE 5, CHAPTER 6, ARTICLE B.

B. DEWATERING AND OTHER CONSTRUCTION RELATED DISCHARGE LIMITS TO THE SEWER SYSTEM ARE REGULATED BY ALEXRENEW PRETREATMENT. ENGINEER/OWNER IS REQUIRED TO CONTACT ALEXRENEW'S PRETREATMENT COORDINATOR AT 703-549-3381 EXT. 2020

ITEM	EXISTING	PROPOSED
CURB & GUTTER		
SIDEWALK		
FIRE HYDRANT		
STRUCTURES		
WATER MAINS		
GAS MAINS		
TELEPHONE LINES		
STORM SEWER		
SANITARY SEWER		
PAVING		
FENCES		
POWER LINES		
SPOT ELEVATIONS		
CONTOURS		
BUILDING ENTRANCES		
UTILITY POLE		
LIGHT POLE		
LIMITS OF DISTURBANCE		

(PROVIDED BY VIRGINIA AMERICAN WATER)
HYDRANT NUMBER: 3217 (W BRADDOCK STREET
AND SCROGGINS ROAD)

STATIC	=	45 PSI
RESIDUAL	=	39 PSI
FLOW	=	1,771 GPM
Q20	=	3,828 GPM

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DEPARTMENT OF PLANNING & ZONING

DIRECTOR DATE

DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES

SITE PLAN NO. 2018-0021

DIRECTOR DATE

CHAIRMAN, PLANNING COMMISSION DATE

DATE RECORDED _____

INSTRUMENT NO. DEED BOOK NO. DATE

RCFIELDS
& ASSOCIATES, inc.
ENGINEERING • LAND SURVEYING • PLANNING
700 S. Washington Street, Suite 220 www.rcfiassoc.com
Alexandria, Virginia 22314 (703) 549-6422



DEVELOPMENT PRELIMINARY SITE PLAN
ALEXANDRIA PRESBYTERIAN CHURCH
1300 WEST BRADDOCK ROAD
CITY OF ALEXANDRIA, VIRGINIA

[illegible]

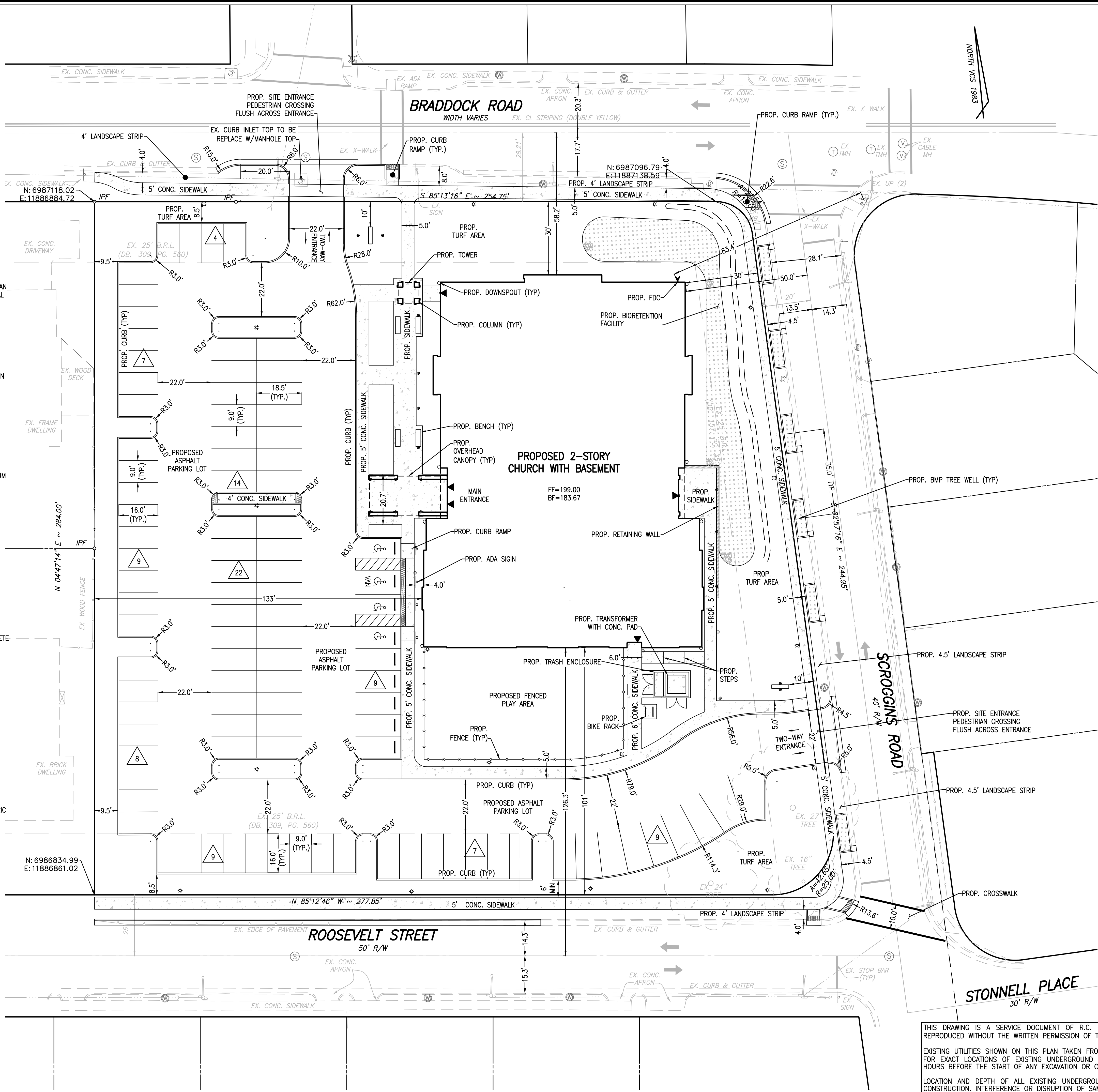
DESIGN: VMM
CHECKED: VMM
SCALE: 1" = 20'
DATE: AUG. 19, 2019

PRELIMINARY PLAN

SHEET 4 OF 13
FILE: 18-193

TEXT LEGEND

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ARCHAEOLOGY NOTES:

THE APPLICANT/DEVELOPER SHALL CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-746-4399) IF ANY BURIED STRUCTURAL REMAINS (WALL FOUNDATIONS, WELLS, PRIVES, CISTERNS, ETC.) OR CONCENTRATIONS OF ARTIFACTS ARE DISCOVERED DURING DEVELOPMENT. WORK MUST CEASE IN THE AREA OF THE DISCOVERY UNTIL A CITY ARCHAEOLOGIST COMES TO THE SITE AND RECORDS THE FINDS.

THE APPLICANT/DEVELOPER SHALL NOT ALLOW ANY METAL DETECTION OR OTHER ARTIFACT COLLECTION TO BE CONDUCTED ON THE PROPERTY, UNLESS AUTHORIZED BY ALEXANDRIA ARCHAEOLOGY. FAILURE TO COMPLY SHALL RESULT IN PROJECT DELAYS.

ALL REQUIRED ARCHAEOLOGICAL PRESERVATION MEASURES SHALL BE COMPLETED IN COMPLIANCE WITH SECTION 11-411 OF THE CITY OF ALEXANDRIA ZONING ORDINANCE.

CIVIL LEGEND

ITEM	EXISTING	PROPOSED
CURB & GUTTER		
SIDEWALK		
FIRE HYDRANT		
STRUCTURES		
WATER MAINS		
GAS MAINS		
TELEPHONE LINES		
STORM SEWER		
SANITARY SEWER		
PAVING		
FENCES		
POWER LINES		
SPOT ELEVATIONS	+ 124.5	+ 124.5
CONTOURS	- - - 124 - - -	- - - 124 - - -
BUILDING ENTRANCES		
UTILITY POLE		
LIGHT POLE		

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Alexandria, Virginia 22314
(703) 549-6422
www.rcfields.com

COMMONWEALTH OF VIRGINIA
Andrea Spruch
ANDREA SPRUCH
Lic. No. 047863
AUGUST 22, 2019
PROFESSIONAL ENGINEER

DEVELOPMENT PRELIMINARY SITE PLAN
ALEXANDRIA PRESBYTERIAN CHURCH
1300 WEST BRADDOCK ROAD
CITY OF ALEXANDRIA, VIRGINIA

DATE	REVISION

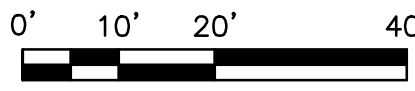
DESIGN: VMM
CHECKED: VMM
SCALE: 1" = 20'
DATE: AUG. 19, 2019

SITE
DIMENSION
PLAN

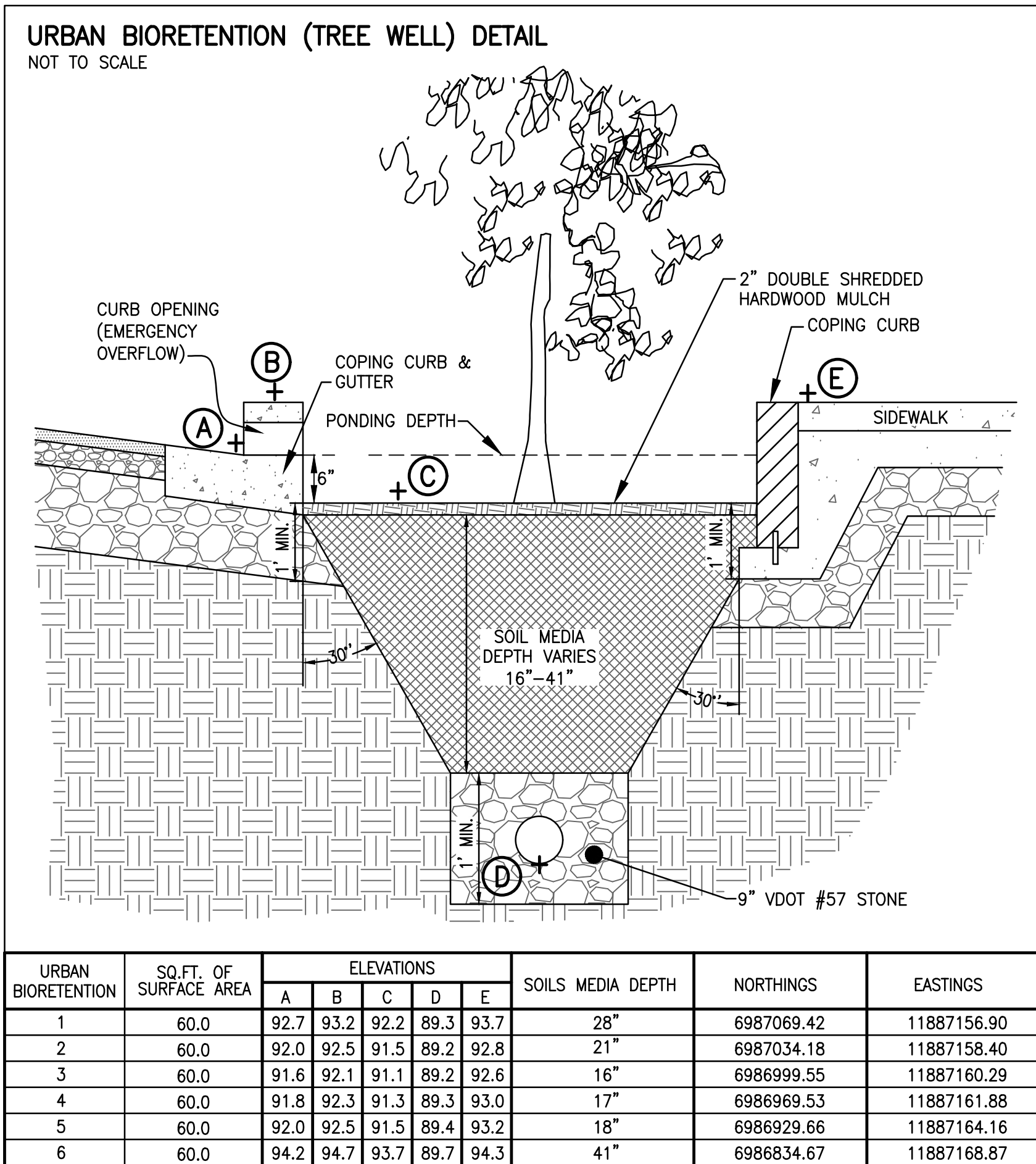
SHEET **5** OF **13**
FILE: **18-193**

APPROVED
SPECIAL USE PERMIT NO. _____
DEPARTMENT OF PLANNING & ZONING
DIRECTOR _____ DATE _____
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES
SITE PLAN NO. **2018-0021**
DIRECTOR _____ DATE _____
CHAIRMAN, PLANNING COMMISSION _____ DATE _____
DATE RECORDED _____
INSTRUMENT NO. _____ DEED BOOK NO. _____ DATE _____

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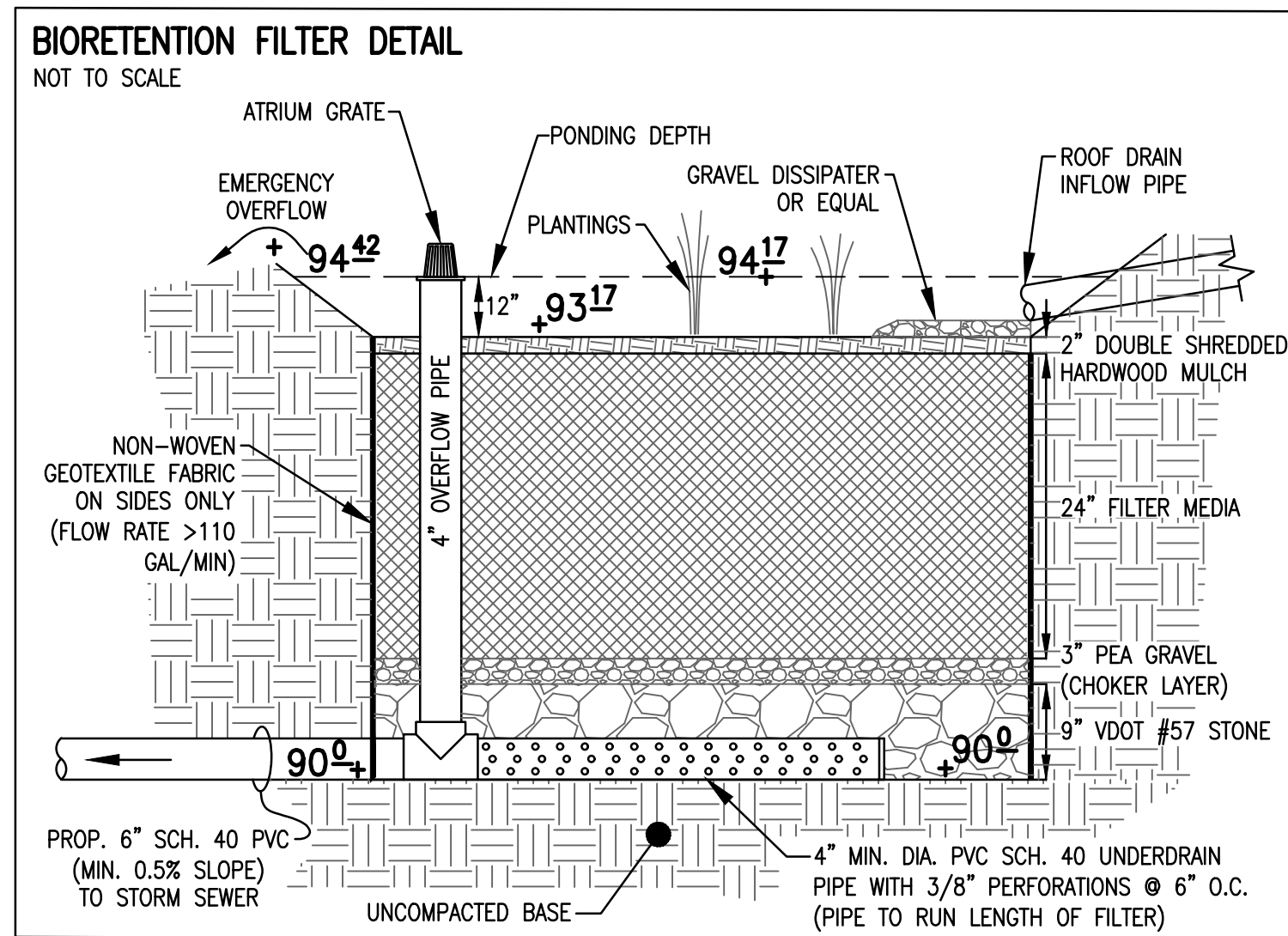


\\s0101\1103\DWG\DWG\Plan\Stormwater\06 - STORMWATER MANAGEMENT PLAN - LOD.dwg
Wed, Aug 21, 2019 - 3:10:18pm



TREE WELL 1:		TREE WELL 2:		TREE WELL 3:	
Contributing Drainage Area		Contributing Drainage Area		Contributing Drainage Area	
Roadway to be Treated	45 SF	Roadway to be Treated	33 SF	Roadway to be Treated	26 SF
Sidewalk to be Treated	890 SF	Sidewalk to be Treated	612 SF	Sidewalk to be Treated	639 SF
Contributing Drainage Area	935 SF	Contributing Drainage Area	645 SF	Contributing Drainage Area	665 SF
Treatment Volume Required	38.96 CF	Treatment Volume Required	26.88 CF	Treatment Volume Required	27.71 CF
Water Quality Sizing Computations		Water Quality Sizing Computations		Water Quality Sizing Computations	
Min. Surface Area (Gross)	77.92 SF	Min. Surface Area (Gross)	53.75 SF	Min. Surface Area (Gross)	55.42 SF
Infiltration Ponding	0.00 FT	Infiltration Ponding	0.00 FT	Infiltration Ponding	0.00 FT
Min. Surface Area (Net)	77.92 SF	Min. Surface Area (Net)	53.75 SF	Min. Surface Area (Net)	55.42 SF
Fill Time	1 HR	Fill Time	1 HR	Fill Time	1 HR
Infiltration	0.0000 FT/HR	Infiltration	0.0000 FT/HR	Infiltration	0.0000 FT/HR
Depth of Soil	2.33 FT	Depth of Soil	1.75 FT	Depth of Soil	1.33 FT
Ponding Depth	0.50 FT	Ponding Depth	0.50 FT	Ponding Depth	0.50 FT
Landscape Sizing Computations		Landscape Sizing Computations		Landscape Sizing Computations	
Type of Practice	Tree Wells	Type of Practice	Tree Wells	Type of Practice	Tree Wells
Tree Spacing	35 FT	Tree Spacing	35 FT	Tree Spacing	35 FT
Number of Practices Proposed	1	Number of Practices Proposed	1	Number of Practices Proposed	1
Surface Area per Practice	77.92 SF	Surface Area per Practice	53.75 SF	Surface Area per Practice	55.42 SF
Width of Practice	4.00 FT	Width of Practice	4.00 FT	Width of Practice	4.00 FT
Min. Length of Practice	19.48 FT	Min. Length of Practice	13.44 FT	Min. Length of Practice	13.85 FT
Length of Practice	15.00 FT	Length of Practice	15.00 FT	Length of Practice	15.00 FT
Depth of Soil	2.33 FT	Depth of Soil	1.75 FT	Depth of Soil	1.33 FT
Soil Volume Provided	140.00 CF	Soil Volume Provided	105.00 CF	Soil Volume Provided	80.00 CF
Additional Soil Volume Required	310.00 CF	Additional Soil Volume Required	345.00 CF	Additional Soil Volume Required	370.00 CF
* FIRST 1/2" INCLUDED IN VRRM		* FIRST 1" INCLUDED IN VRRM		* FIRST 1" INCLUDED IN VRRM	

TREE WELL 4:		TREE WELL 5:		TREE WELL 6:	
Contributing Drainage Area		Contributing Drainage Area		Contributing Drainage Area	
Roadway to be Treated	18 SF	Roadway to be Treated	32 SF	Roadway to be Treated	101 SF
Sidewalk to be Treated	685 SF	Sidewalk to be Treated	6,765 SF	Sidewalk to be Treated	2,441 SF
Contributing Drainage Area	703 SF	Contributing Drainage Area	6,797 SF	Contributing Drainage Area	2,542 SF
Treatment Volume Required	29.29 CF	Treatment Volume Required	283.21 CF	Treatment Volume Required	105.92 CF
Water Quality Sizing Computations		Water Quality Sizing Computations		Water Quality Sizing Computations	
Min. Surface Area (Gross)	58.58 SF	Min. Surface Area (Gross)	566.42 SF	Min. Surface Area (Gross)	211.83 SF
Infiltration Ponding	0.00 FT	Infiltration Ponding	0.00 FT	Infiltration Ponding	0.00 FT
Min. Surface Area (Net)	58.58 SF	Min. Surface Area (Net)	566.42 SF	Min. Surface Area (Net)	211.83 SF
Fill Time	1 HR	Fill Time	1 HR	Fill Time	1 HR
Infiltration	0.0000 FT/HR	Infiltration	0.0000 FT/HR	Infiltration	0.0000 FT/HR
Depth of Soil	1.42 FT	Depth of Soil	1.50 FT	Depth of Soil	3.42 FT
Ponding Depth	0.50 FT	Ponding Depth	0.50 FT	Ponding Depth	0.50 FT
Landscape Sizing Computations		Landscape Sizing Computations		Landscape Sizing Computations	
Type of Practice	Tree Wells	Type of Practice	Tree Wells	Type of Practice	Tree Wells
Tree Spacing	35 FT	Tree Spacing	35 FT	Tree Spacing	35 FT
Number of Practices Proposed	1	Number of Practices Proposed	1	Number of Practices Proposed	1
Surface Area per Practice	58.58 SF	Surface Area per Practice	566.42 SF	Surface Area per Practice	211.83 SF
Width of Practice	4.00 FT	Width of Practice	4.00 FT	Width of Practice	4.00 FT
Min. Length of Practice	14.65 FT	Min. Length of Practice	141.60 FT	Min. Length of Practice	52.96 FT
Length of Practice	15.00 FT	Length of Practice	15.00 FT	Length of Practice	15.00 FT
Depth of Soil	1.42 FT	Depth of Soil	1.50 FT	Depth of Soil	3.42 FT
Soil Volume Provided	85.00 CF	Soil Volume Provided	90.00 CF	Soil Volume Provided	205.00 CF
Additional Soil Volume Required	365.00 CF	Additional Soil Volume Required	360.00 CF	Additional Soil Volume Required	245.00 CF
* FIRST 1" INCLUDED IN VRRM		* FIRST 1/2" INCLUDED IN VRRM		* FIRST 1/2" INCLUDED IN VRRM	



WATER QUALITY VOLUME CALCULATIONS:
TOTAL AREA TO BMP = 67,434 SQ.FT.
IMPERVIOUS AREA TO BMP = 47,961 SQ.FT. ("R_v" = 0.95)
PERVIOUS AREA TO BMP = 19,473 SQ.FT. ("R_v" = 0.25)

WATER QUALITY VOLUME REQUIRED:
 $T_v = (RV)(A)/12$
WHERE:
A = AREA TO FACILITY (67,434 SF)
R_v = COMPOSITE RUNOFF COEFFICIENT
 $R_v = [(0.25)(19,473) + (0.95)(47,961)] / 67,434 = 0.75$

$$T_v = (0.75)(67,434)/12 = 4,214.6 \text{ FT}^3$$

WATER QUALITY VOLUME PROVIDED:
 $V = SA[D_p + (D_{fm})(N_{fm}) + (D_g)(N_g)]$
WHERE:
V = VOLUME
SA = SURFACE AREA (2,225 SQ. FT.)
D_p = PONDING DEPTH (12")
D_{fm} = DEPTH OF FILTER MEDIA (24")
N_{fm} = VOID RATIO OF FILTER MEDIA (0.25)
D_g = DEPTH OF GRAVEL BED (12")
N_g = VOID RATIO OF GRAVEL BED (0.40)

$$V = 2,225[1.0' + (2.0')(0.25) + (1.0')(0.40)] = 4,227.5 \text{ FT}^3$$

REQUIRED: **4,215 CU.FT.**
PROVIDED: **4,228 CU.FT.**

BMP FACILITY	AREA TREATED (ACRES)	IMPERVIOUS AREA TREATED (ACRES)	PERVIOUS AREA TREATED (ACRES)	TP REMOVAL EFFICIENCY	PHOSPHORUS REMOVED (LBS)	GEOGRAPHIC COORDINATES	
BIORETENTION	1.5480	1.1010	0.4470	25%	1.45	NORTHING	EASTING
HYDRODYNAMIC BMP	1.5480	1.1010	0.4470	20%	0.24	6987069.58	11887122.01
TREE WELLS	1					6987068.62	11887119.01
	2					6987069.42	11887156.90
	3	0.2231	0.1203	0.1028	25%	0.18	6987034.18
	4					6986999.55	11887160.29
	5					6986969.53	11887161.88
	6					6986929.66	11887164.16
						6986834.67	11887168.87

APPROVED
SPECIAL USE PERMIT NO. _____
DEPARTMENT OF PLANNING & ZONING

DIRECTOR _____ DATE _____
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES
SITE PLAN NO. **2018-0021**

DIRECTOR _____ DATE _____
CHAIRMAN, PLANNING COMMISSION _____ DATE _____
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DEVELOPMENT PRELIMINARY SITE PLAN
ALEXANDRIA PRESBYTERIAN CHURCH
1300 WEST BRADDOCK ROAD
CITY OF ALEXANDRIA, VIRGINIA

DATE	REVISION

DESIGN: VMM
CHECKED: VMM
SCALE: 1" = 20'
DATE: AUG. 19, 2019

OFFSITE BMP
DETAILS

SHEET **7** OF **13**
FILE: **18-193**

ProjecA4:M67t Name: Alexandria Presbyterian Chrch
Date: 7/10/2019
Linear Development Project? No

CLEAR ALL
(Ctrl+Shift+R)

data input cells
constant values
calculation cells
final results

Site Information

Post-Development Project (Treatment Volume and Loads)

Enter Total Disturbed Area (acres) → 2.10

Maximum reduction required: 20%
The site's net increase in impervious cover (acres) is: 0.8639
Post-Development TP Load Reduction for Site (lb/yr): 1.83

Pre-ReDevelopment Land Cover (acres)

	A Soils	B Soils	C Soils	D Soils	Totals
Forest/Open Space (acres) -- undisturbed, protected forest/open space or reforested					0.00
Managed Turf (acres) -- disturbed, graded for yards or other turf to be				1.56	1.56
Impervious Cover (acres)				0.55	0.55
					2.10

Post-Development Land Cover (acres)

	A Soils	B Soils	C Soils	D Soils	Totals
Forest/Open Space (acres) -- undisturbed, protected forest/open space or reforested					0.00
Managed Turf (acres) -- disturbed, graded for yards or other turf to be				0.69	0.69
Impervious Cover (acres)				1.41	1.41
Area Check	OK.	OK.	OK.	OK.	2.10

Constants

Annual Rainfall (inches)	43
Target Rainfall Event (inches)	1.00
Total Phosphorus (TP) EMC (mg/L)	0.26
Total Nitrogen (TN) EMC (mg/L)	1.86
Target TP Load (lb/acre/yr)	0.41
Pj (unitless correction factor)	0.90

Runoff Coefficients (Rv)

	A Soils	B Soils	C Soils	D Soils
Forest/Open Space	0.02	0.03	0.04	0.05
Managed Turf	0.15	0.20	0.22	0.25
Impervious Cover	0.95	0.95	0.95	0.95

LAND COVER SUMMARY -- PRE-REDEVELOPMENT

Land Cover Summary-Pre		
Pre-ReDevelopment	Listed	Adjusted ¹
Forest/Open Space Cover (acres)	0.00	0.00
Weighted Rv(forest)	0.00	0.00
% Forest	0%	0%
Managed Turf Cover (acres)	1.56	0.69
Weighted Rv(turf)	0.25	0.25
% Managed Turf	74%	56%
Impervious Cover (acres)	0.55	0.55
Rv(impervious)	0.95	0.95
% Impervious	26%	44%
Total Site Area (acres)	2.10	1.24
Site Rv	0.43	0.56

Treatment Volume and Nutrient Load

Pre-ReDevelopment Treatment Volume (acre-ft)	0.0756	0.0576
Pre-ReDevelopment Treatment Volume (cubic feet)	3,295	2,511
Pre-ReDevelopment TP Load (lb/yr)	2.07	1.58
Pre-ReDevelopment TP Load per acre (lb/acre/yr)	0.98	1.27
Baseline TP Load (lb/yr) (0.41 lb/acre/yr applied to pre-redevelopment area excluding pervious land proposed for new impervious cover)		0.51

LAND COVER SUMMARY -- POST DEVELOPMENT

Land Cover Summary-Post (Final)			Land Cover Summary-Post			Land Cover Summary-Post		
Post-ReDev. & New Impervious			Post-ReDevelopment			Post-Development New Impervious		
Forest/Open Space Cover (acres)	0.00		Forest/Open Space Cover (acres)	0.00				
Weighted Rv(forest)	0.00		Weighted Rv(forest)	0.00				
% Forest	0%		% Forest	0%				
Managed Turf Cover (acres)	0.69		Managed Turf Cover (acres)	0.69				
Weighted Rv(turf)	0.25		Weighted Rv(turf)	0.25				
% Managed Turf	33%		% Managed Turf	56%				
Impervious Cover (acres)	1.41		ReDev. Impervious Cover (acres)	0.55		New Impervious Cover (acres)	0.86	
Rv(impervious)	0.95		Rv(impervious)	0.95		Rv(impervious)	0.95	
% Impervious	67%		% Impervious	44%				
Final Site Area (acres)	2.10		Total ReDev. Site Area (acres)	1.24				
Final Post Dev Site Rv	0.72		ReDev Site Rv	0.56				

Treatment Volume and Nutrient Load

Final Post-Development Treatment Volume (acre-ft)	0.1260	Post-ReDevelopment Treatment Volume (acre-ft)	0.0576	Post-Development Treatment Volume (acre-ft)	0.0684
Final Post-Development Treatment Volume (cubic feet)	5,490	Post-ReDevelopment Treatment Volume (cubic feet)	2,511	Post-Development Treatment Volume (cubic feet)	2,979
Final Post-Development TP Load (lb/yr)	3.45	Post-ReDevelopment Load (TP) (lb/yr)*	1.58	Post-Development TP Load (lb/yr)	1.87
Final Post-Development TP Load per acre (lb/acre/yr)	1.64	Post-ReDevelopment TP Load per acre (lb/acre/yr)	1.27		
		Max. Reduction Required (Below Pre-ReDevelopment Load)	20%		
		TP Load Reduction Required for Redeveloped Area (lb/yr)	0.32	TP Load Reduction Required for New Impervious Area (lb/yr)	1.52

Post-Development Requirement for Site Area

TP Load Reduction Required (lb/yr)	1.83
------------------------------------	------

Nitrogen Loads (Informational Purposes Only)

Pre-ReDevelopment TN Load (lb/yr)	14.81	Final Post-Development TN Load (Post-ReDevelopment & New Impervious) (lb/yr)	24.68
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Drainage Area A

Drainage Area A Land Cover (acres)

	A Soils	B Soils	C Soils	D Soils	Totals	Land Cover Rv
Forest/Open Space (acres)					0.00	0.00
Managed Turf (acres)				0.45	0.45	0.25
Impervious Cover (acres)				1.10	1.10	0.95
Total					1.55	

Total Phosphorus Available for Removal in D.A. A (lb/yr) 2.64
Post Development Treatment Volume in D.A. A (ft³) 4,202

Practice	Runoff Reduction Credit (%)	Managed Turf Credit Area (acres)	Impervious Cover Credit Area (acres)	Volume from Upstream Practice (ft³)	Runoff Reduction (ft³)	Remaining Runoff Volume (ft³)	Total BMP Treatment Volume (ft³)	Phosphorus Removal Efficiency (%)	Phosphorus Load from Upstream Practices (lb)	Untreated Phosphorus Load to Practice (lb)	Phosphorus Removed By Practice (lb)	Remaining Phosphorus Load (lb)	Downstream Practice to be Employed
6. Bioretention (RR)													
6.a. Bioretention #1 or Micro-Bioretention #1 or Urban Bioretention (Spec #9)	40	0.45	1.10	0	1,681	2,521	4,202	25	0.00	2.64	1.45	1.19	14.a. MTD - Hydrodynamic
14. Manufactured Treatment Devices (no RR)													
14.a. Manufactured Treatment Device- Hydrodynamic	0			2,521	0	2,521	2,521	20	1.19	0.00	0.24	0.95	

Drainage Area B

Drainage Area A Land Cover (acres)

	A Soils	B Soils	C Soils	D Soils	Totals	Land Cover Rv
Forest/Open Space (acres)					0.00	0.00
Managed Turf (acres)				0.10	0.10	0.25
Impervious Cover (acres)				0.12	0.12	0.95
Total					0.22	

Total Phosphorus Available for Removal in D.A. B (lb/yr) 0.32
Post Development Treatment Volume in D.A. B (ft³) 508

Practice	Runoff Reduction Credit (%)	Managed Turf Credit Area (acres)	Impervious Cover Credit Area (acres)	Volume from Upstream Practice (ft³)	Runoff Reduction (ft³)	Remaining Runoff Volume (ft³)	Total BMP Treatment Volume (ft³)	Phosphorus Removal Efficiency (%)	Phosphorus Load from Upstream Practices (lb)	Untreated Phosphorus Load to Practice (lb)	Phosphorus Removed By Practice (lb)	Remaining Phosphorus Load (lb)	Downstream Practice to be Employed
6. Bioretention (RR)													
6.a. Bioretention #1 or Micro-Bioretention #1 or Urban Bioretention (Spec #9)	40	0.10	0.12	0	203	305	508	25	0.00	0.32	0.18	0.14	

Site Results (Water Quality Compliance)

Area Checks	D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	AREA CHECK
FOREST/OPEN SPACE (ac)	0.00	0.00	0.00	0.00	0.00	OK.
IMPERVIOUS COVER (ac)	1.10	0.12	0.00	0.00	0.00	OK.
IMPERVIOUS COVER TREATED (ac)	1.10	0.12	0.00	0.00	0.00	OK.
MANAGED TURF AREA (ac)	0.45	0.10	0.00	0.00	0.00	OK.
MANAGED TURF AREA TREATED (ac)	0.45	0.10	0.00	0.00	0.00	OK.
AREA CHECK	OK.	OK.	OK.	OK.	OK.	

Site Treatment Volume (ft³) 5,490

Runoff Reduction Volume and TP By Drainage Area

	D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	TOTAL
RUNOFF REDUCTION VOLUME ACHIEVED (ft³)	1,681	203	0	0	0	1,884
TP LOAD AVAILABLE FOR REMOVAL (lb/yr)	2.64	0.32	0.00	0.00	0.00	2.96
TP LOAD REDUCTION ACHIEVED (lb/yr)	1.69	0.18	0.00	0.00	0.00	1.86
TP LOAD REMAINING (lb/yr)	0.95	0.14	0.00	0.00	0.00	1.10

NITROGEN LOAD REDUCTION ACHIEVED (lb/yr)

	12.08	1.46	0.00	0.00	0.00	13.54
--	-------	------	------	------	------	-------

Total Phosphorus

FINAL POST-DEVELOPMENT TP LOAD (lb/yr)	3.45
TP LOAD REDUCTION REQUIRED (lb/yr)	1.83
TP LOAD REDUCTION ACHIEVED (lb/yr)	1.86
TP LOAD REMAINING (lb/yr):	1.59
REMAINING TP LOAD REDUCTION REQUIRED (lb/yr):	0.00 **
** TARGET TP REDUCTION EXCEEDED BY 0.03 LB/YEAR **	

Total Nitrogen (For Informational Purposes)

POST-DEVELOPMENT LOAD (lb/yr)	24.68
NITROGEN LOAD REDUCTION ACHIEVED (lb/yr)	13.54
REMAINING POST-DEVELOPMENT NITROGEN LOAD (lb/yr)	11.14

Enter design storm rainfall depths (in):

1-year storm	2-year storm	10-year storm
2.70	3.20	5.20

Drainage Area A

	A Soils	B Soils	C Soils	D Soils
Forest/Open Space -- undisturbed, protected forest/open space or reforested land	Area (acres)	0.00	0.00	0.00
	CN	30	55	70
Managed Turf -- disturbed, graded for yards or other turf to be mowed/managed	Area (acres)	0.00	0.00	0.00
	CN	39	61	74
Impervious Cover	Area (acres)	0.00	0.00	0.00
	CN	98	98	98

CN(D.A. A) 93

RV_{Developed} (watershed-inch) with no Runoff Reduction* 1.97 2.45 4.39
RV_{Developed} (watershed-inch) with Runoff Reduction* 1.67 2.15 4.10
Adjusted CN* 89 90 90

Drainage Area B

	A Soils	B Soils	C Soils	D Soils
Forest/Open Space -- undisturbed, protected forest/open space or reforested land	Area (acres)	0.00	0.00	0.00
	CN	30	55	70
Managed Turf -- disturbed, graded for yards or other turf to be mowed/managed	Area (acres)	0.00	0.00	0.00
	CN	39	61	74
Impervious Cover	Area (acres)	0.00	0.00	0.00
	CN	98	98	98

CN(D.A. B) 90

RV_{Developed} (watershed-inch) with no Runoff Reduction* 1.71 2.17 4.07
RV_{Developed} (watershed-inch) with Runoff Reduction* 1.46 1.92 3.82
Adjusted CN* 87 87 88

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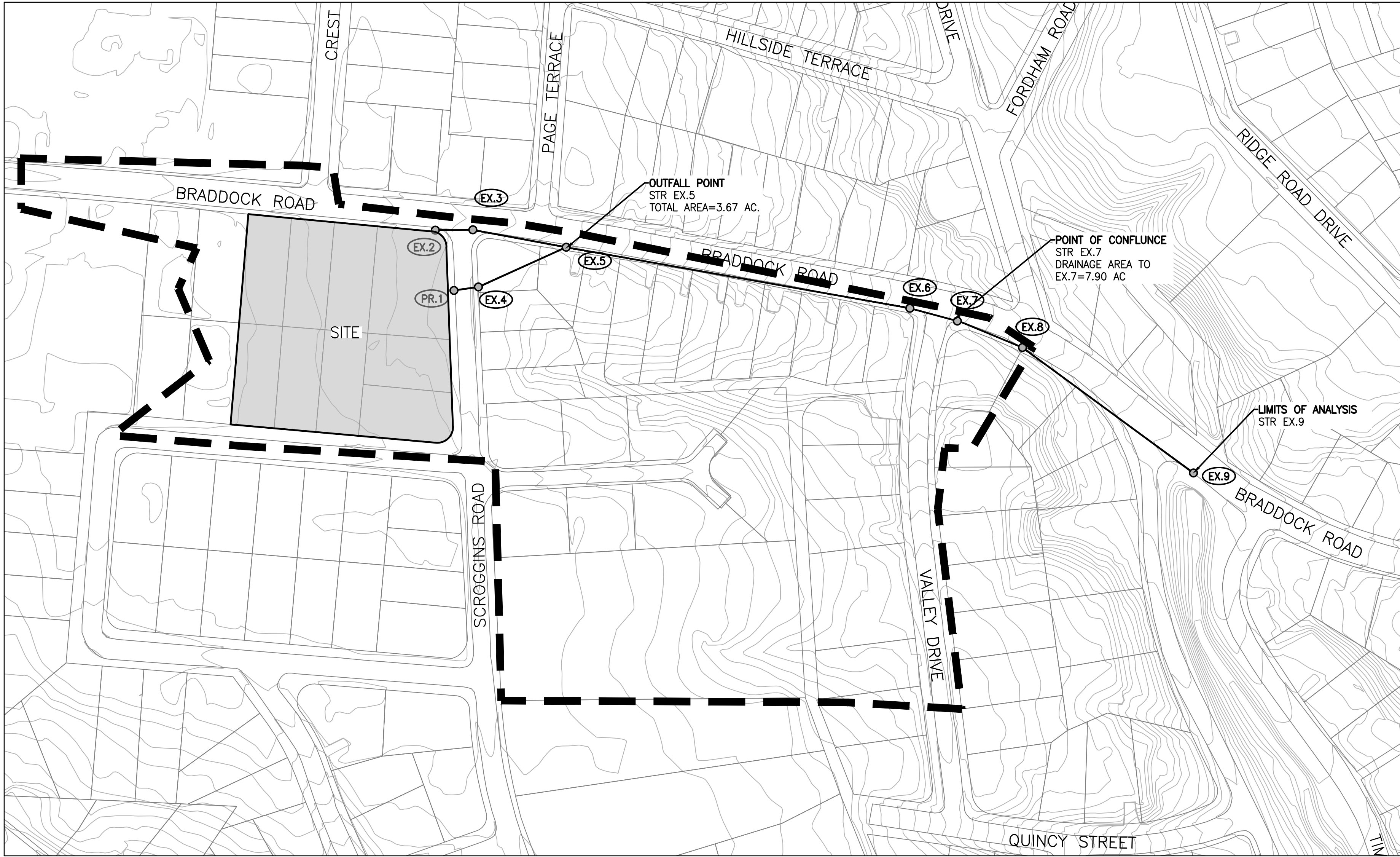
APPROVED
SPECIAL USE PERMIT NO. _____
DEPARTMENT OF PLANNING & ZONING
DIRECTOR _____ DATE _____
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES
SITE PLAN NO. 2018-0021
DIRECTOR _____ DATE _____
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DATE RECORDED _____
INSTRUMENT NO. _____ DEED BOOK NO. _____ DATE _____

DESIGN: VMM
CHECKED: VMM
SCALE: NO SCALE
DATE: AUG. 19, 2019

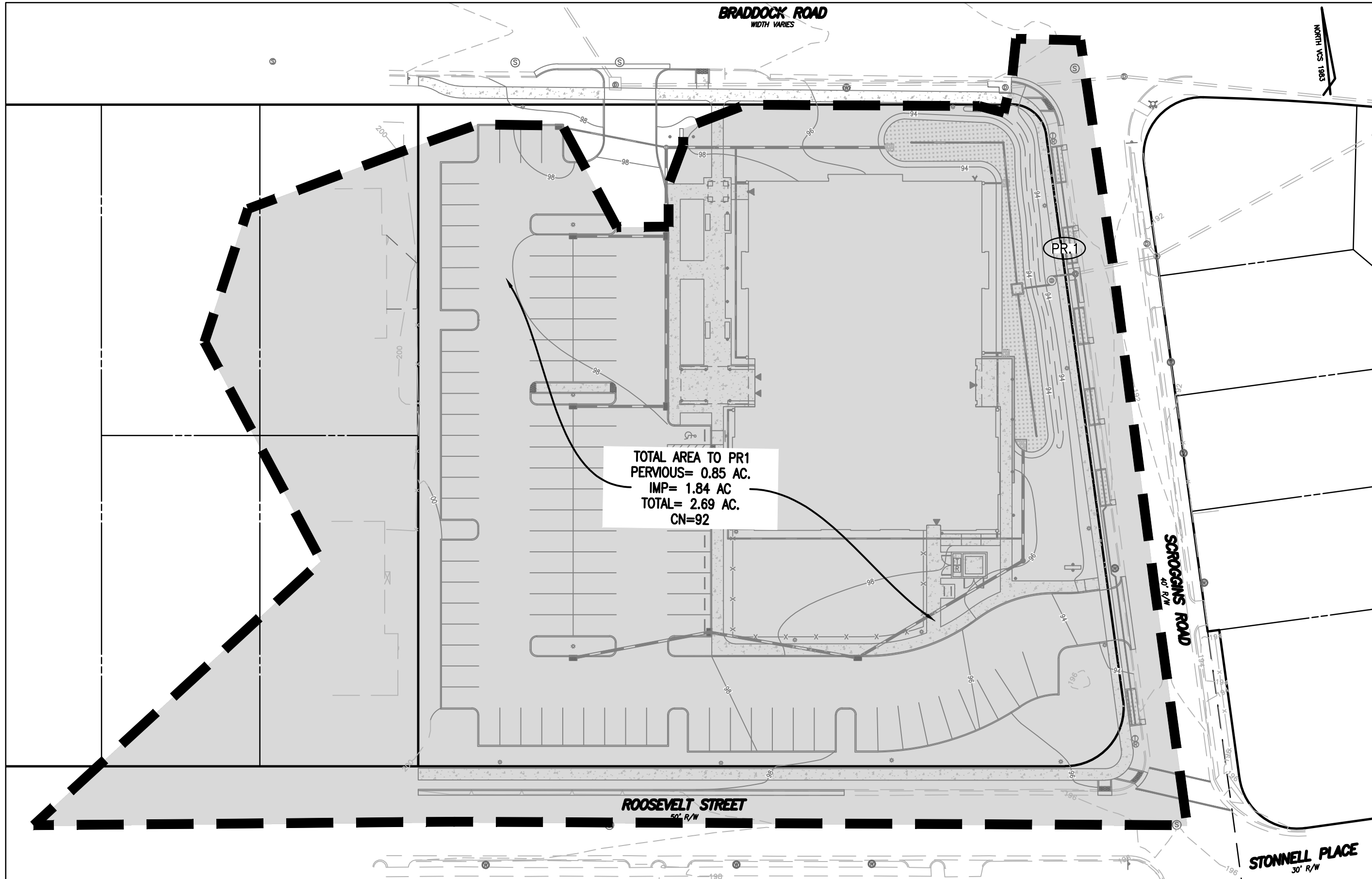
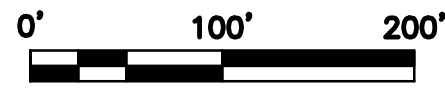
STORMWATER
QUALITY
COMPUTATIONS

SHEET 8 OF 13
FILE: 18-193

A:\2018\1813\JWD\DELVA Preliminary\07 - STORMWATER QUALITY COMPUTATIONS - LOD.dwg
Wed, Aug 21, 2019 - 3:10:27pm



OUTFALL MAP
SCALE: 1" = 100'



AREA TO PR1 MAP
SCALE: 1" = 40'



STORMWATER OUTFALL NARRATIVE:

PRE-DEVELOPMENT CONDITIONS:
THE 1.87 ACRE SITE IS LOCATED IN THE HOOFS RUN WATERSHED. IN EXISTING CONDITIONS, THE SITE CONSISTS OF A CHURCH WITH ASSOCIATED PARKING, HOUSE, AND PLAYGROUND. THE SITE HAS ONE OUTFALL POINT.

OUTFALL #1: THE SITE DRAINS TO THE EXISTING STORM SYSTEM IN THE BRADDOCK ROAD AND SCROGGINS ROAD RIGHT-OF-WAYS. RUNOFF FROM THE BUILDING AND THE MAJORITY OF THE SURFACE PARKING IS COLLECTED IN AN UNDERGROUND STORM SEWER SYSTEM THAT CONNECTS TO THE CITY MAINTAINED STORM SEWER SYSTEM LOCATED IN THE SCOGGINS ROAD RIGHT-OF-WAY. DRAINAGE IS CONVEYED WEST WHERE IT IS JOINED BY THE RUNOFF THAT ENTERS THE BRADDOCK ROAD RIGHT-OF-WAY AND EVENTUALLY OUTFALLS TO HOOFS RUN.

POST-DEVELOPMENT CONDITIONS:
THE REDEVELOPMENT OF THE PROJECT PROPOSES A NEW 2-STORY CHURCH, ASSOCIATED PARKING AND IMPROVED STREETScape/OPEN SPACE. OVERALL IMPERVIOUS AREA WILL INCREASE WITH THE PROPOSED CONSTRUCTION. THE SITE WILL MAINTAIN ONE OUTFALL POINT AS IN PRE-DEVELOPMENT CONDITIONS.

OUTFALL #1: RUNOFF FROM THE MAJORITY OF THE SITE IS COLLECTED IN AN ONSITE BIORETENTION FACILITY THAT CONNECTS TO THE CITY MAINTAINED STORM SEWER SYSTEM (PR.1) LOCATED IN THE SCROGGINS ROAD RIGHT-OF-WAY. THE REMAINDER OF THE RUNOFF ENTERS THE BRADDOCK ROAD & SCROGGINS ROAD RIGHT-OF-WAYS VIA SHEET SLOW. AS IN EXISTING CONDITIONS, RUNOFF CONVERGES IN A CITY MAINTAINED STORM SEWER AND IS CONVEYED EAST UNTIL IT ENTERS EXISTING STRUCTURE EX.7. AT THIS POINT, THE FLOW CONVERGES WITH AN AREA AT LEAST 90% (7.90 AC) OF THE AREA OF THE OUTFALL POINT (EX.5). THE ANALYSIS THEN EXTENDS ANOTHER 150' TO EXISTING STRUCTURE EX.9.

CONCLUSION:
COMPUTATIONS SHOWN ON THIS SHEET DEMONSTRATE THAT THE EXISTING SYSTEM EXPERIENCES LOCALIZED FLOODING IN EXISTING CONDITIONS AND COMPUTATIONS SHOWN ON SHEET 6 DEMONSTRATE THAT THE PEAK FLOW RATE IS BEING REDUCED WITH THE PROPOSED DEVELOPMENT. THE FLOOD PROTECTION FOR THIS SITE IS THEREFORE IN COMPLIANCE WITH SECTION 13-109F(2)(b)(i). DUE TO SITE DRAINAGE OUTFALLING TO AN EXISTING UNDERSIZED MANMADE STORM SEWER SYSTEM, NO OFFSITE IMPROVEMENTS TO THE SYSTEM ARE REQUIRED.

PER THE LIMITS OF ANALYSIS PER CITY CODE SECTION 13-109F-2(d)(i) AND REDUCED POST-DEVELOPMENT RUNOFF RATE FOR THE 10-YEAR, 24-HOUR STORM, THE PROJECT POST-DEVELOPMENT RUNOFF WILL NOT EXACERBATE ANY EXISTING DOWNSTREAM CAPACITY CONDITIONS.

STRUCTURE		INC. DRAINAGE AREA (AC)	ACCUM. DRAINAGE AREA (AC)	CURVE NUMBER	RAINFALL DEPTH (IN)	Tc (MINUTES)	INCREMENTAL "Q" (CFS)	ACCUMULATED "Q" (CFS)	PIPE DIAMETER (IN)	SLOPE (%)	"n"	MAXIMUM "Q" (CFS)	MAXIMUM VELOCITY (FPS)	LENGTH OF RUN (FT)	UPPER INVERT	LOWER INVERT	FALL (FT)
FROM	TO																
PR.1	EX.4	2.37	2.37	85	5.20	5	9.86	9.86	12	4.28%	0.015	6.66	8.15	36	189.14	187.60	1.54
EX.4	EX.5	0.14	2.51	85	5.20	5	0.57	10.43	12	1.55%	0.015	4.01	4.90	132	187.55	185.51	2.04
EX.2	EX.3	1.01	1.01	85	5.20	5	4.18	4.18	12	4.59%	0.015	6.90	8.44	51	191.31	188.97	2.34
EX.3	EX.5	0.05	1.06	85	5.20	5	0.21	4.40	15	3.18%	0.015	10.41	8.15	130	188.92	184.79	4.13
EX.5	EX.6	0.10	3.67	85	5.20	5	0.42	15.24	18	6.10%	0.015	23.46	12.76	478	184.74	155.59	29.15
EX.6	EX.7	0.61	4.28	85	5.20	5	2.51	17.76	18	6.10%	0.015	23.46	12.76	67	155.59	151.49	4.10
EX.7	EX.8	7.90	12.18	85	5.20	5	32.71	50.46	18	6.10%	0.015	23.46	12.76	96	151.49	145.63	5.85
EX.8	EX.9	0.31	12.49	85	5.20	5	1.30	51.76	18	6.10%	0.015	23.46	12.76	291	145.63	127.89	17.74

DATE	REVISION

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DATE: AUG. 19, 2019

OUTFALL
ANALYSIS

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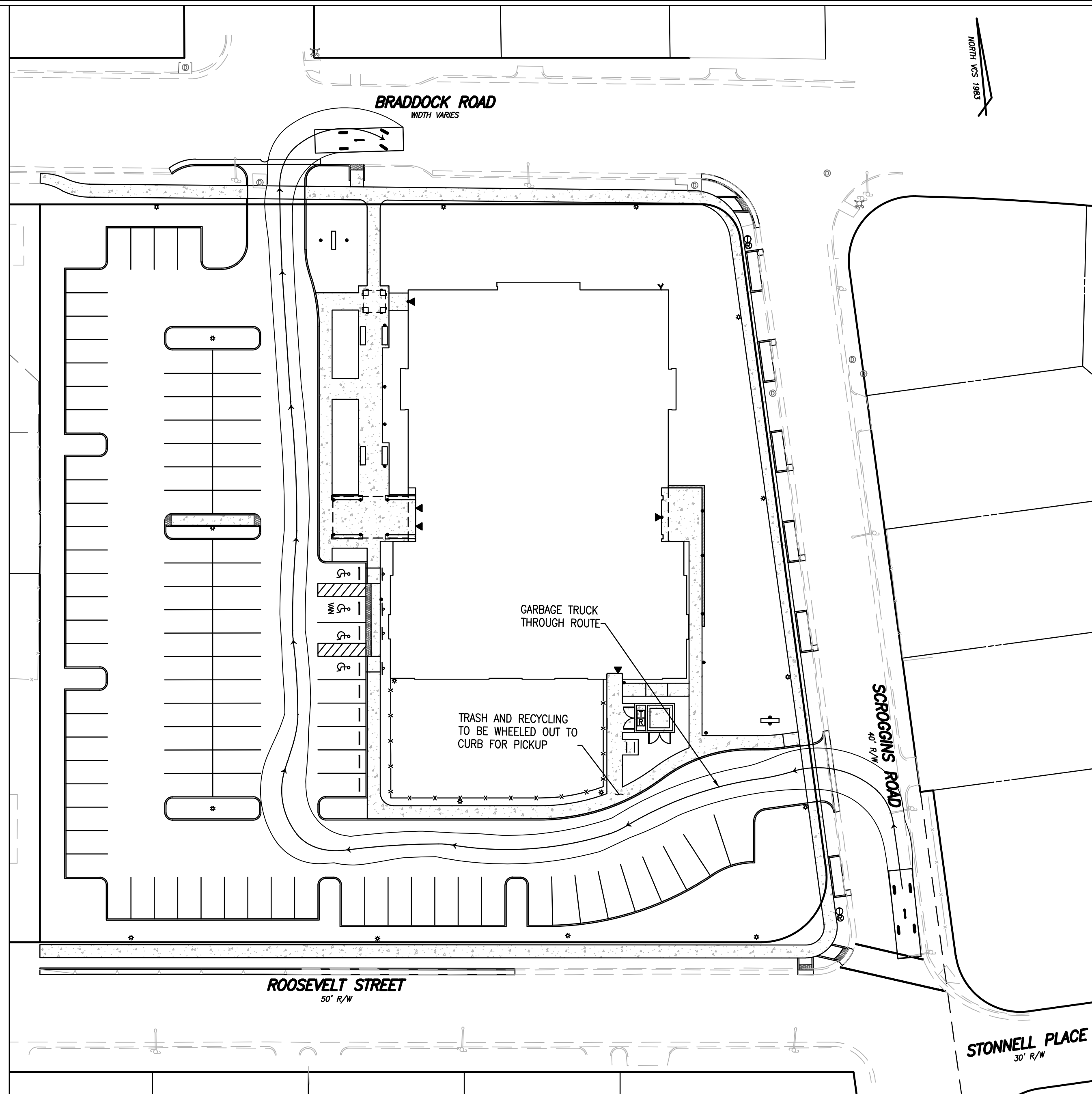
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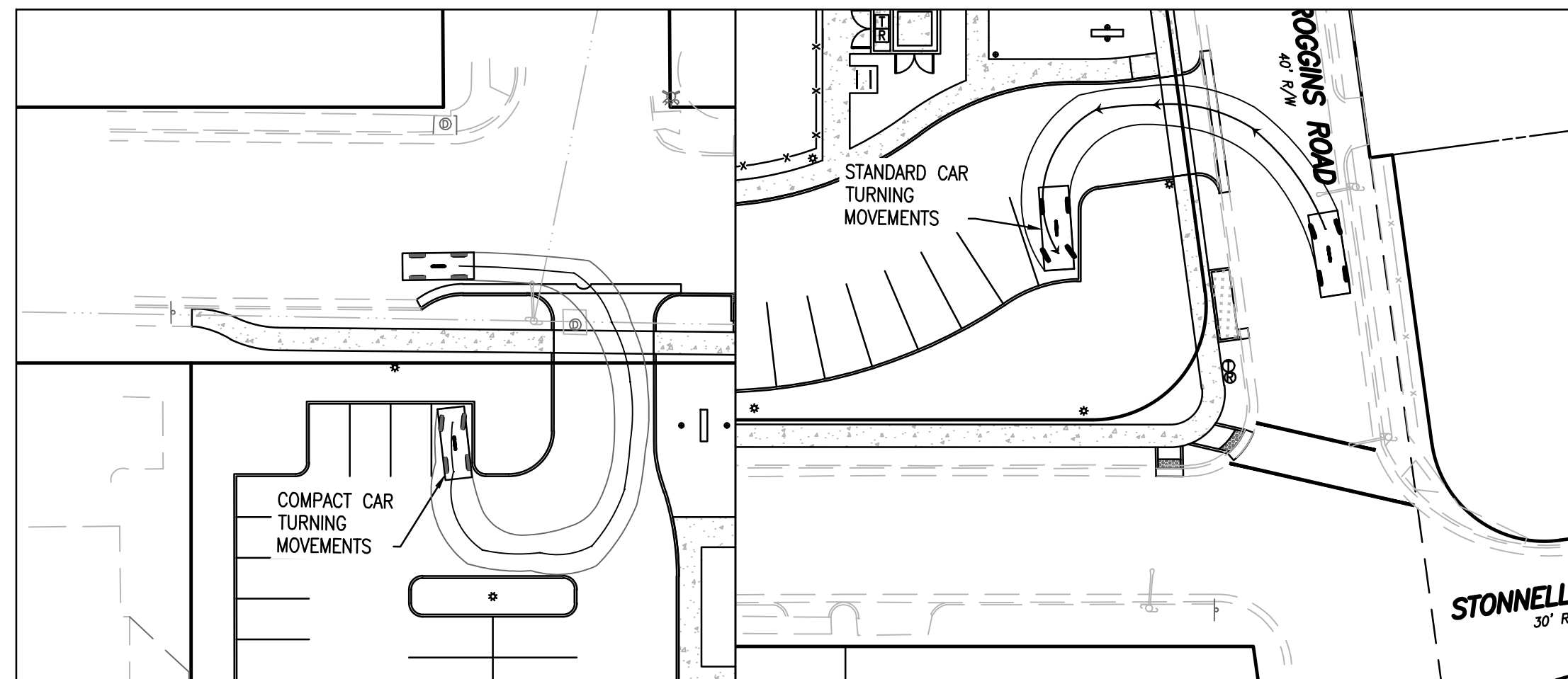
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DATE _____	

\\A\2018\1813\DWG\DELTA Preliminary\11 - TURNING MOVEMENTS.dwg
Wed, Aug 21, 2019 - 3:10:33pm

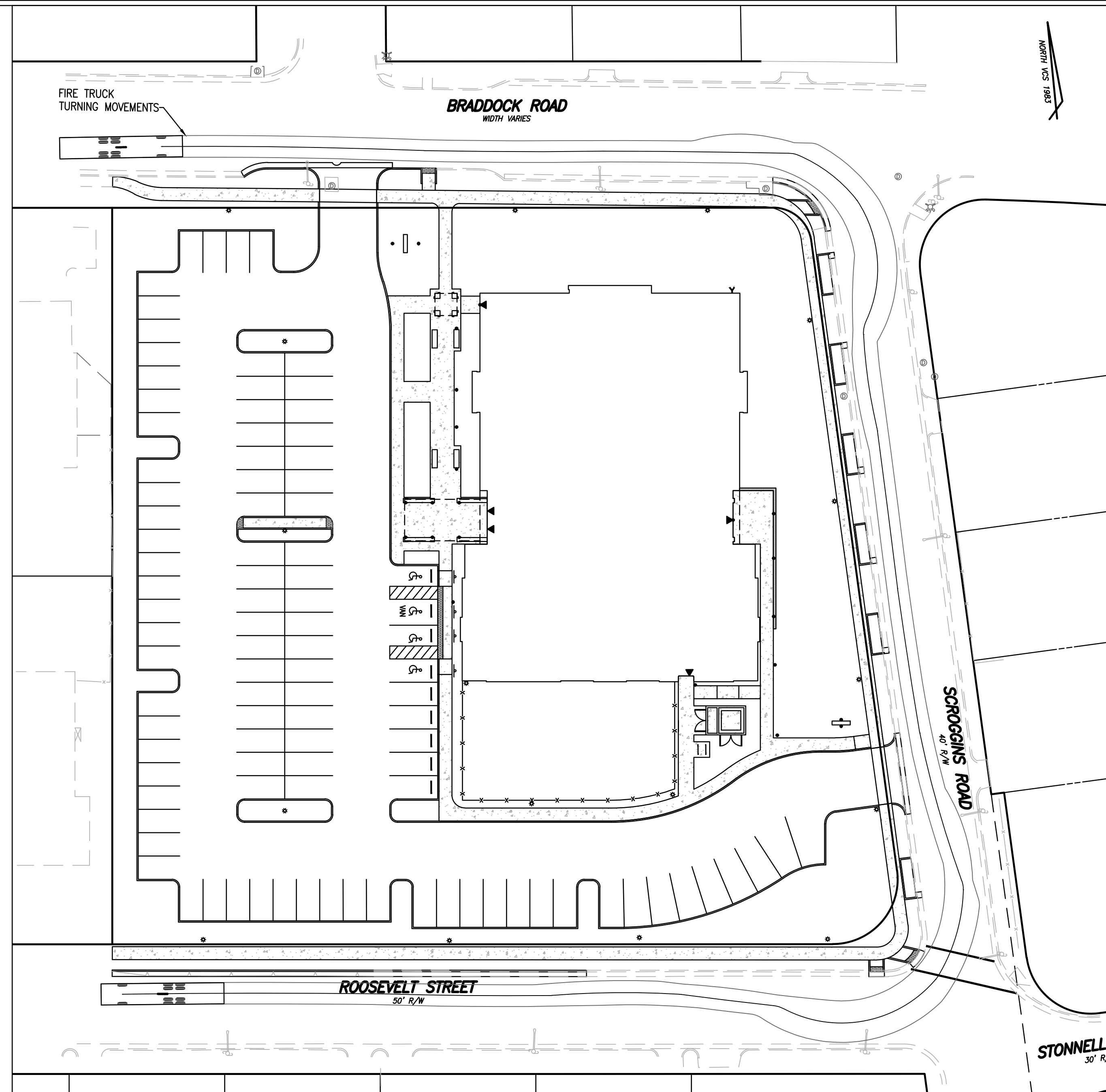


TURNING MOVEMENTS
SCALE: 1"=30'

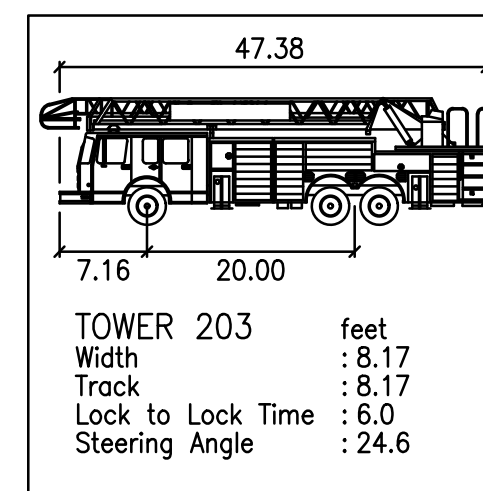


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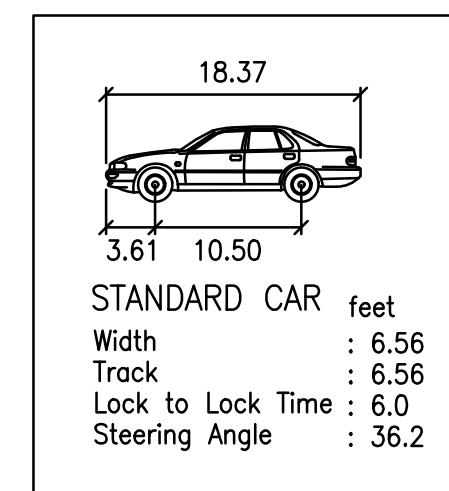
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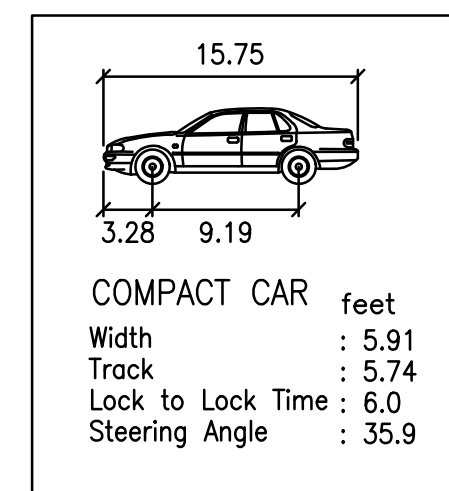
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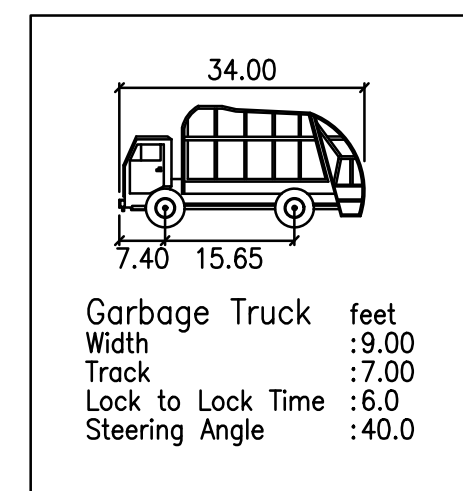
FIRE TRUCK DETAIL
(NTS)



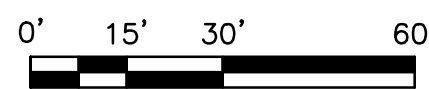
STANDARD CAR DETAIL
(NTS)



COMPACT CAR DETAIL
(NTS)



GARBAGE TRUCK DETAIL
(NTS)



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INSTRUMENT NO. _____	DEED BOOK NO. _____
DATE _____	

DEVELOPMENT PRELIMINARY SITE PLAN

ALEXANDRIA PRESBYTERIAN CHURCH

1300 WEST BRADDOCK ROAD

CITY OF ALEXANDRIA, VIRGINIA

DESIGN: VMM

CHECKED: VMM

SCALE: 1" = 30'

DATE: AUG. 19, 2019

TURNING MOVEMENTS

(1 OF 2)

SHEET **11** OF **13**

FILE: **18-193**

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Andrea Spruch

ANDREA SPRUCH

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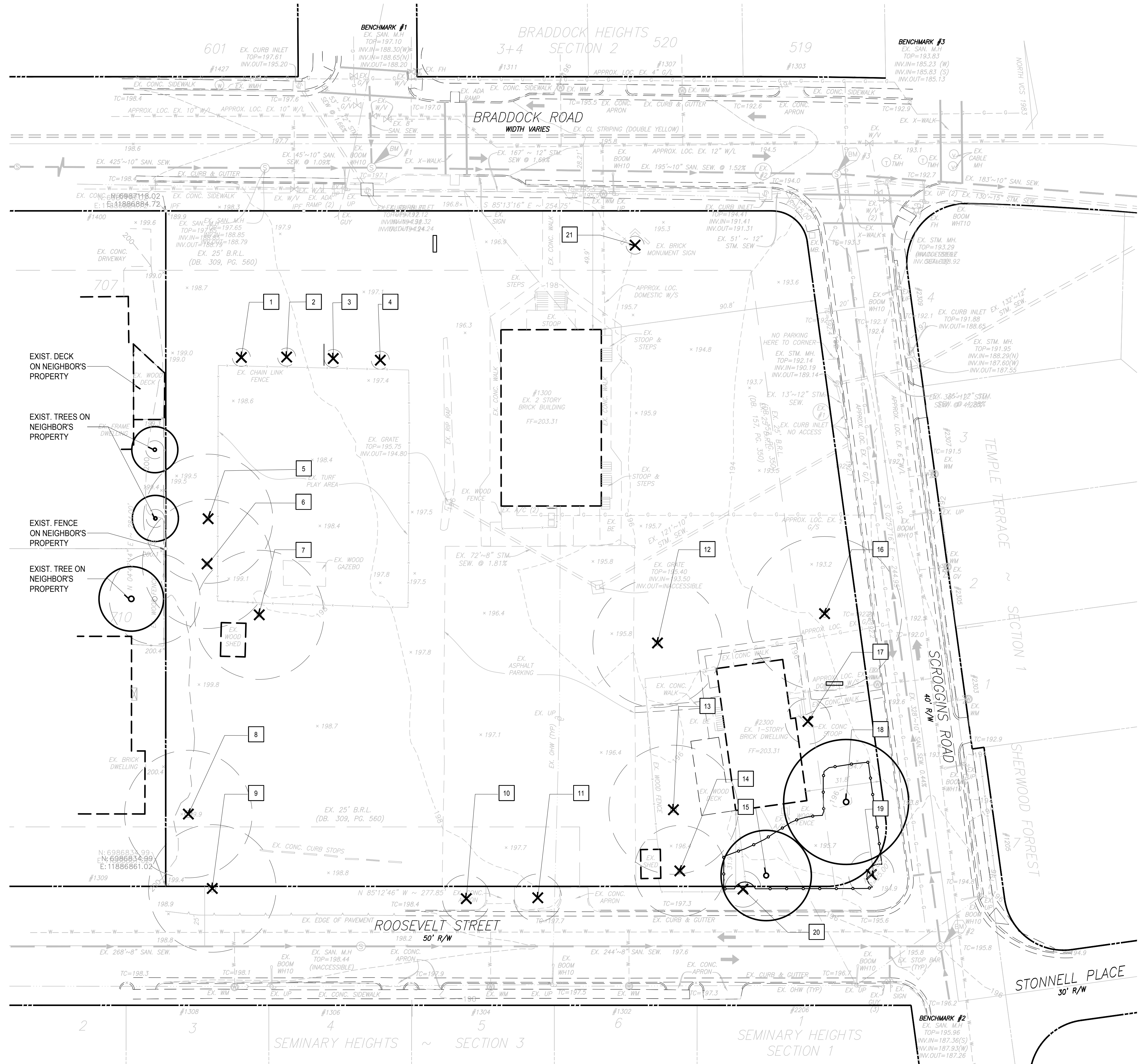
AUGUST 22, 2019

PROFESSIONAL ENGINEER

[illegible]

LIGHTING PLAN — EXTERIOR LIGHTING LAYOUT

SHEET **LP01** OF **13**
FILE: **18-193**



BOUNDARY LINES

PROPERTY LINE

LIMIT OF CLEARING / GRADING

TREE PRESERVATION LEGEND

- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE PRESERVED
- TREE PROTECTION FENCING
- TREE ID NOTE. REFER TO DETAIL #4, SHEET L-200 FOR PRESERVATION OR REMOVAL STATUS

NORTH

0' 10' 20' 40'
Scale: 1"=20'

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SITE PLAN NO. 2018-0021
CHAIRMAN, PLANNING COMMISSION DATE
DATE RECORDED
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DEVELOPMENT PRELIMINARY SITE PLAN
ALEXANDRIA PRESBYTERIAN CHURCH
1300 WEST BRADDOCK ROAD
CITY OF ALEXANDRIA, VIRGINIA

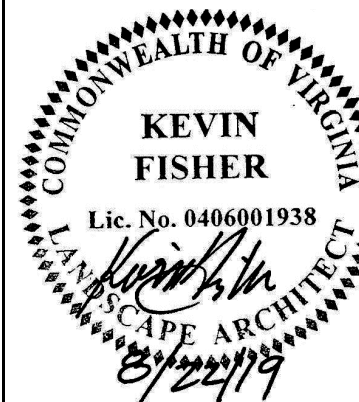
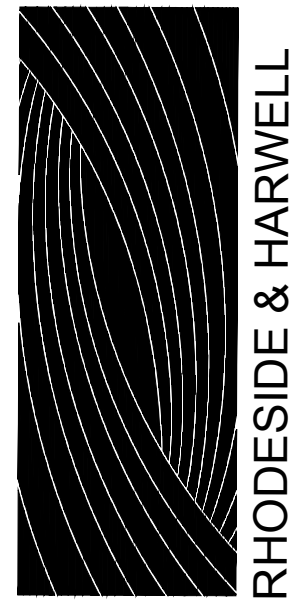
DATE REVISION

DESIGN: KF
CHECKED: KF
SCALE:
DATE: August 22 2019

DRAWING TITLE:
TREE
PRESERVATION/
DEMOLITION
PLAN

SHEET TITLE:
L-100

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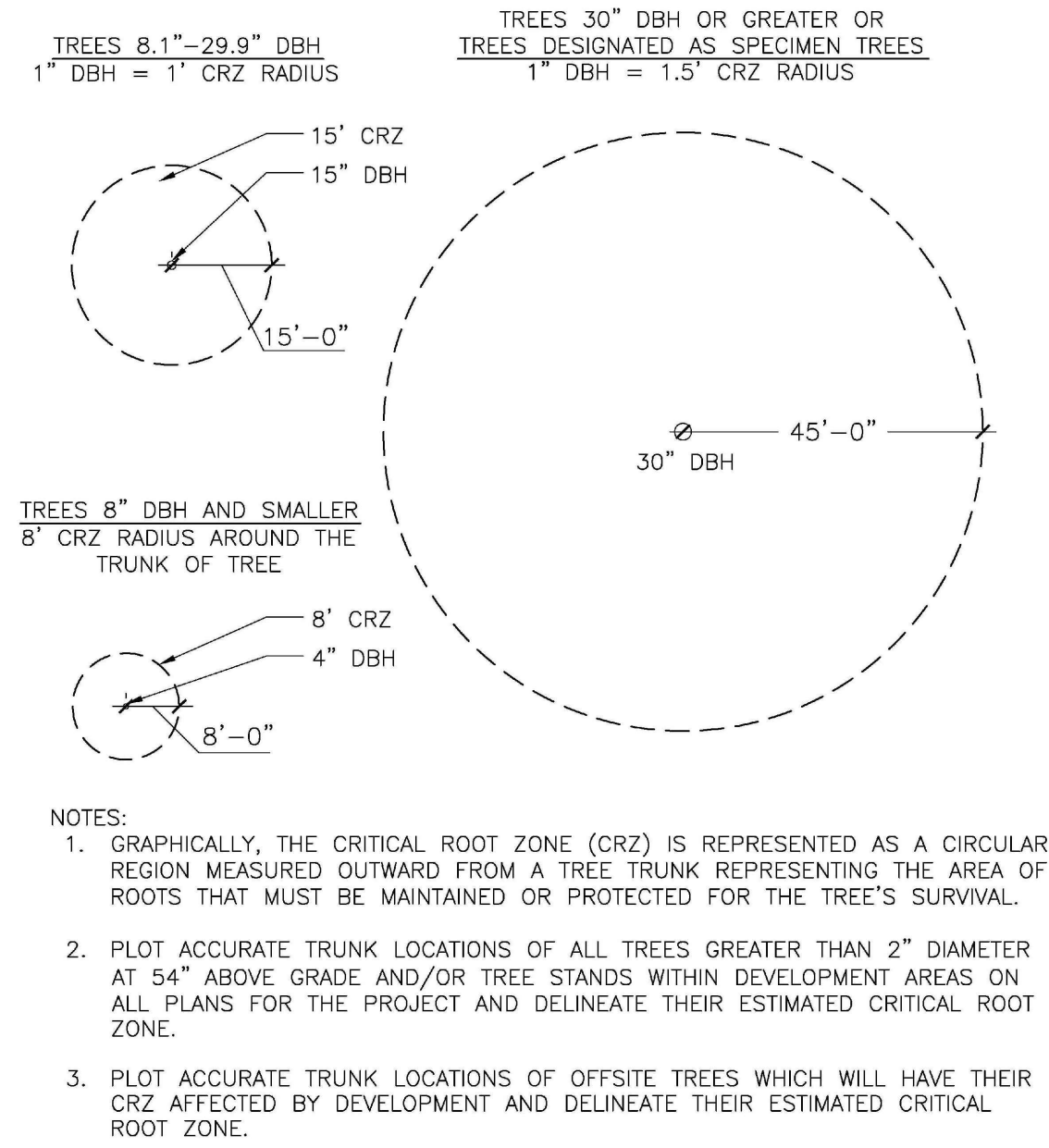
4

TREE PRESERVATION TABLE

TREE ID#	GENUS & SPECIES	COMMON NAME	TREE CALIPER	HEIGHT	REMOVE/PRESERVE
1	Lagerstroemia Indica	Crepe Myrtle	6"	8'	Remove
2	Lagerstroemia Indica	Crepe Myrtle	6"	8'	Remove
3	Lagerstroemia Indica	Crepe Myrtle	6"	8'	Remove
4	Lagerstroemia Indica	Crepe Myrtle	6"	8'	Remove
5	Quercus phellos	Willow Oak	21"	60'	Remove
6	Quercus phellos	Willow Oak	18"	50'	Remove
7	Quercus phellos	Willow Oak	24"	60'	Remove
8	Tilia tomentosa	Linden	36"	40'	Remove
9	~	Mulberry	36"	30'	Remove
10	Lagerstroemia Indica	Crepe Myrtle	12"	14'	Remove
11	Lagerstroemia Indica	Crepe Myrtle	12"	14'	Remove
12	Acer rubrum	Red Maple	30"	40'	Remove
13	Acer Saccharinum	Silver Maple	30"	40'	Remove
14	Acer Saccharinum	Silver Maple	24"	30'	Remove
15	Acer Saccharinum	Silver Maple	24"	30'	Preserve
16	Acer Saccharinum	Silver Maple	36"	40'	Remove
17	Lagerstroemia Indica	Crepe Myrtle	12"	15'	Remove
18	Acer Saccharinum	Silver Maple	27"	40'	Preserve
19	Acer Saccharinum	Silver Maple	16"	20'	Remove
20	Lagerstroemia Indica	Crepe Myrtle	9"	15'	Remove
21	Ilex verticillata	Holly	6"	8'	Remove

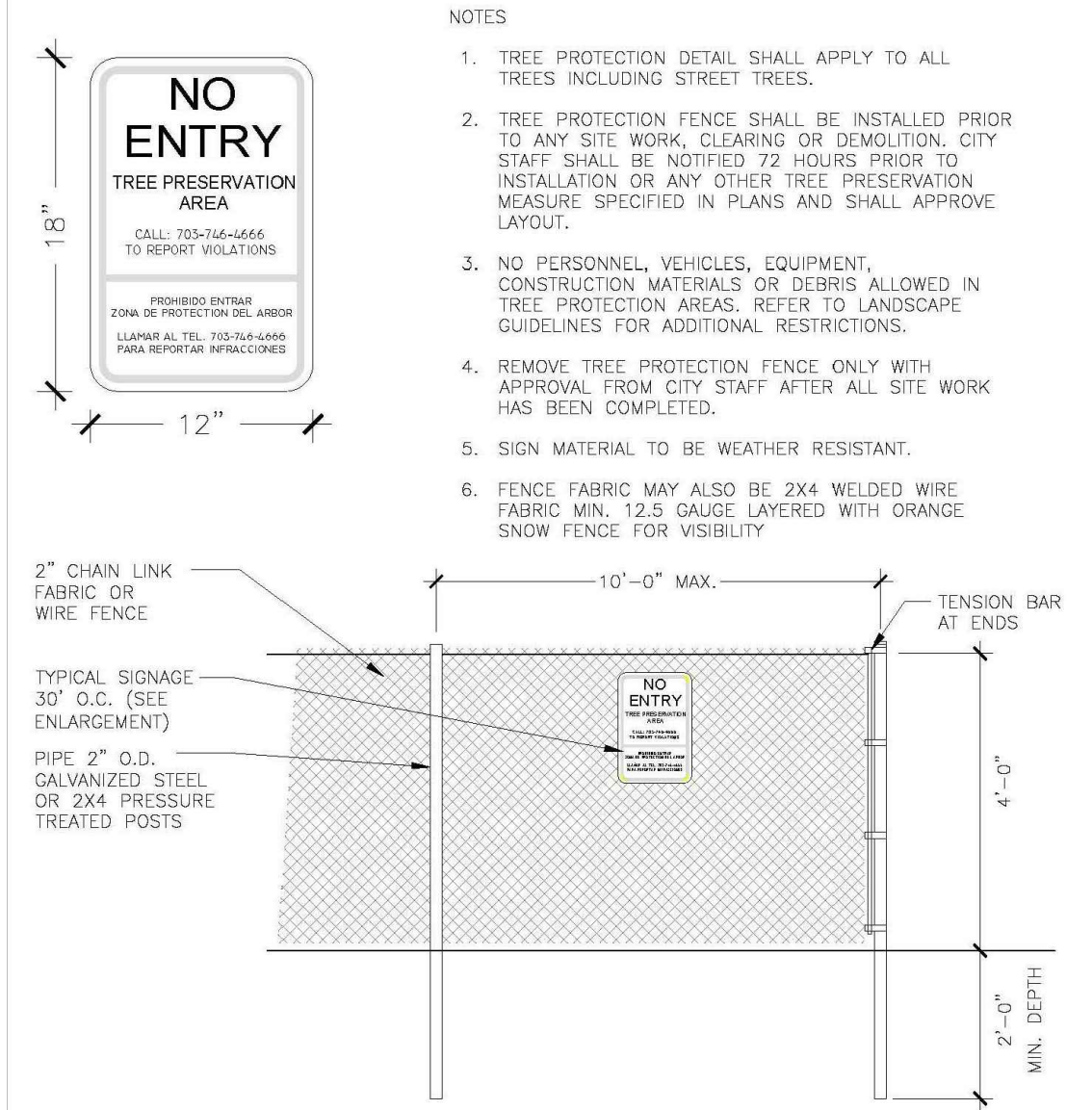
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CITY OF ALEXANDRIA STD.
DETERMINING CRITICAL ROOT ZONE



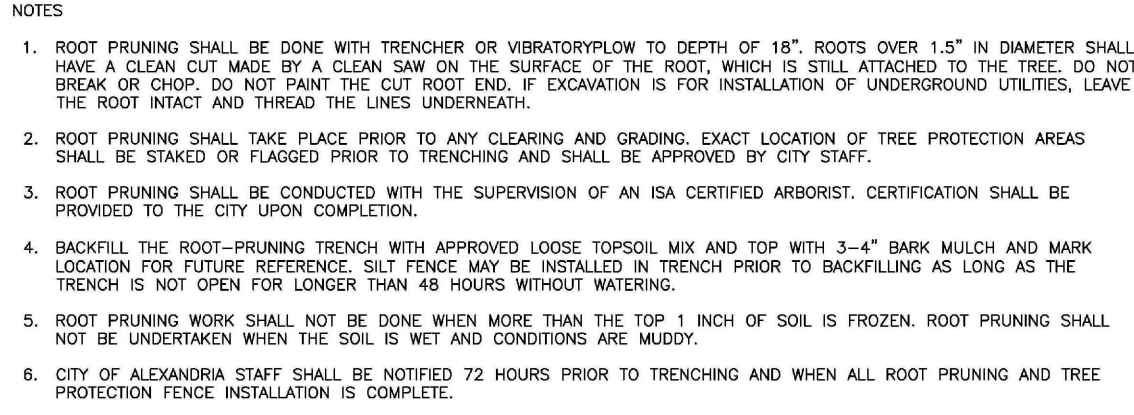
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CITY OF ALEXANDRIA STD.
TREE PROTECTION FENCING



3

CITY OF ALEXANDRIA STD.
ROOT PRUNING



DESIGN: KF
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DATE: August 22 2019

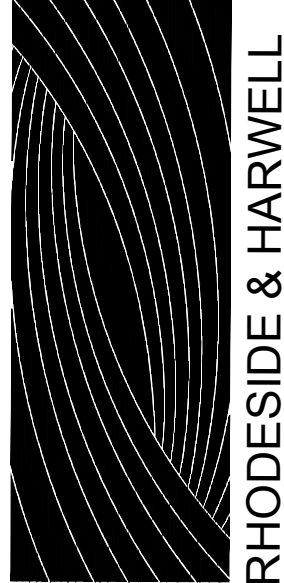
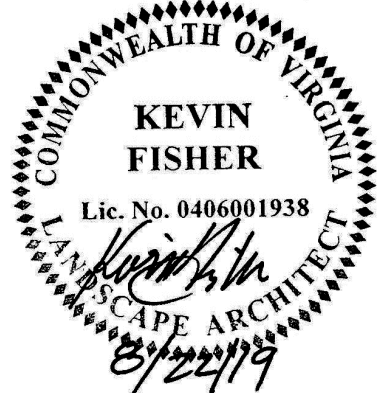
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TREE PRESERVATION
DETAILS

SHEET TITLE:

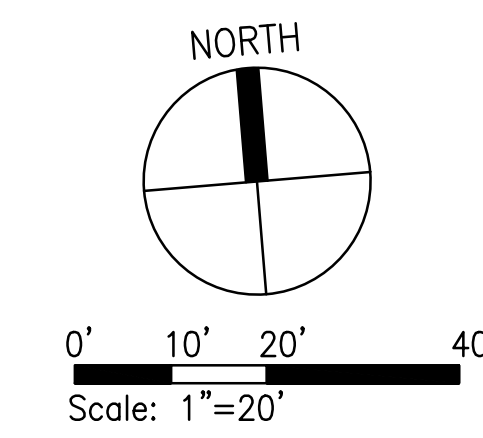
L-200

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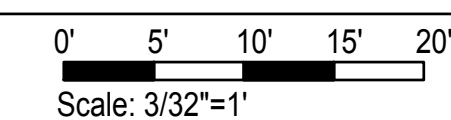


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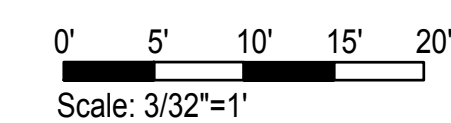
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LANDSCAPE PLAN

SHEET TITLE:
L-300

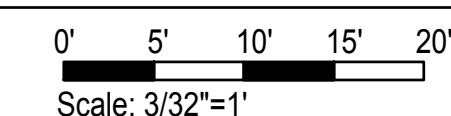
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ALEXANDRIA PRESBYTERIAN CHURCH
1300 WEST BRADDOCK ROAD
CITY OF ALEXANDRIA, VIRGINIA


$$1/16'' = 1' - 0''$$


LANDSCAPE
1/16" = 1' - 0"



LANDSCAPE
1/16" = 1' - 0"



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_____ DIRECTOR	_____ DATE
_____ CHAIRMAN, BOARD OF DIRECTORS	_____ DATE

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1300 WEST BRADDOCK ROAD
CITY OF ALEXANDRIA, VIRGINIA

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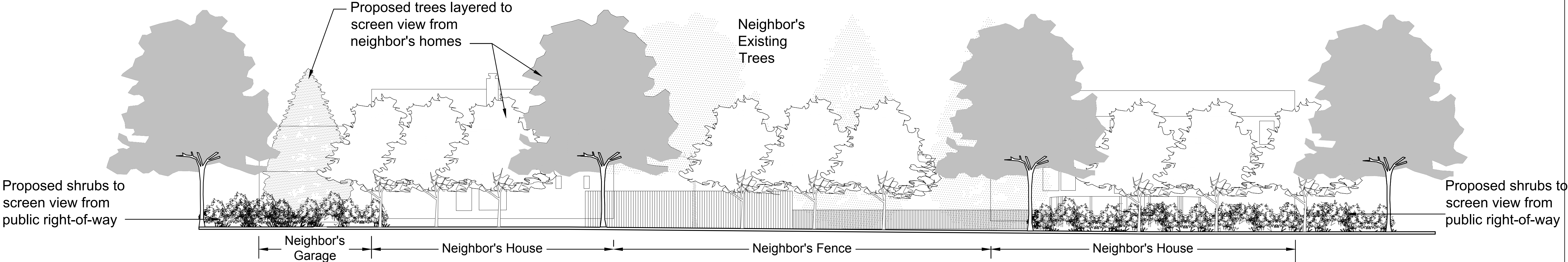
DRAWING TITLE:
LANDSCAPE
ELEVATIONS

SHEET TITLE:
L-400



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1 LANDSCAPE ELEVATION - LOOKING WEST FROM WORSHIP CENTER PARKING LOT
3/32" = 1' - 0"

0' 5' 10' 15' 20'
Scale: 3/32"=1'

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LANDSCAPE ARCHITECT
8/22/19

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DRAWING TITLE:
LANDSCAPE
ELEVATIONS

SHEET TITLE:
L-401

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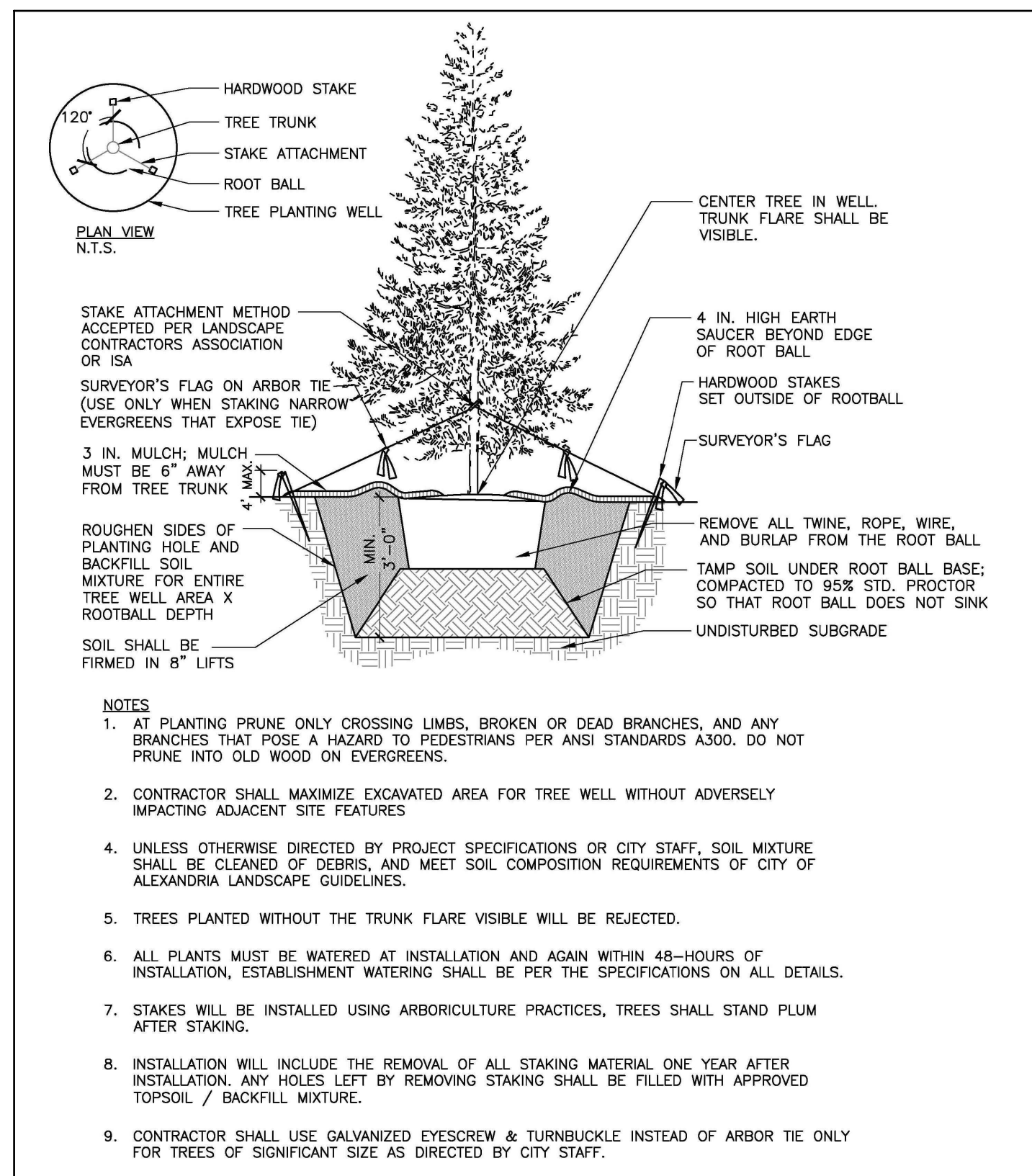
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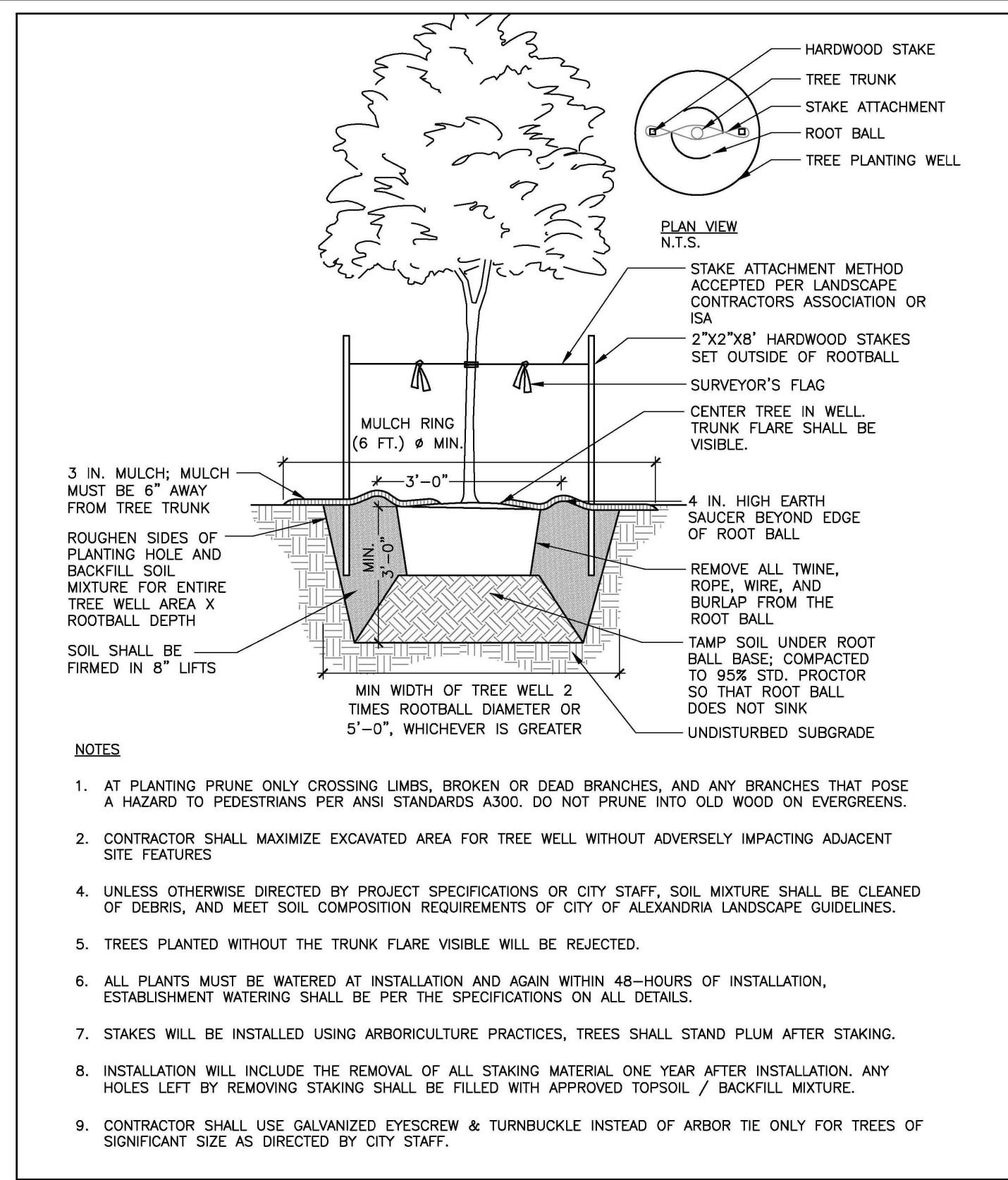
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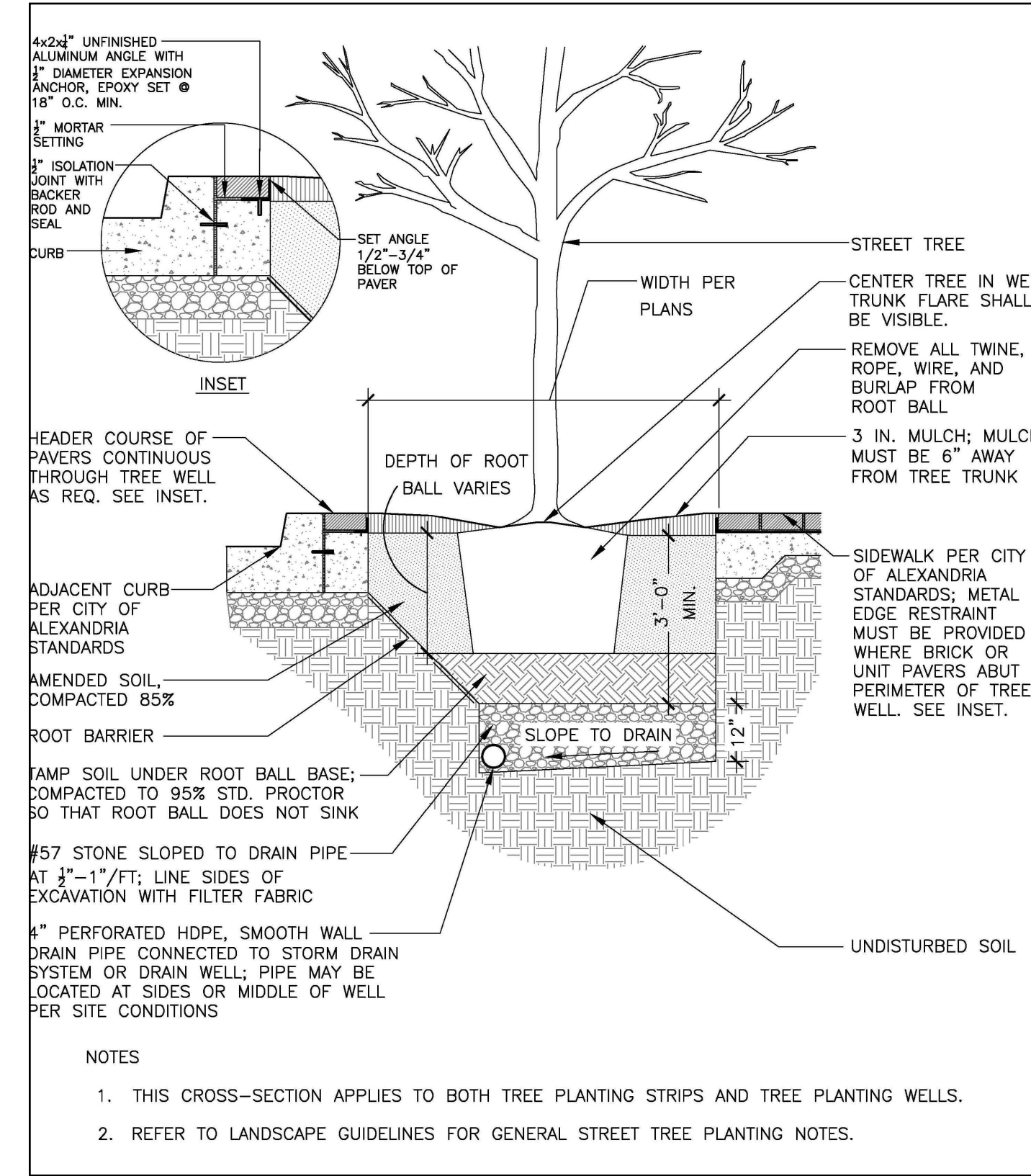
7 EVERGREEN TREE PLANTING

PLANT TYPE	PLAN INFORMATION			BOTANIC/COMMON NAME				SIZE	NOTES
URBAN TREES	QUANTITY AS QUANTITY AS			GENUS	SPECIES	VAR./CULTIVAR/HYBRID	COMMON NAME	CALIPER/HEIGHT	B&B; symmetrical, single leader B&B; symmetrical, single leader B&B; symmetrical, single leader B&B; symmetrical, single leader B&B; symmetrical, single leader B&B; symmetrical, single leader B&B; symmetrical, single leader B&B; symmetrical, single leader B&B; symmetrical, single leader B&B; symmetrical, single leader
	PLAN KEY	SITE TREES	STREET TREES						
	TAN	2	1						
	TAR	1							
	TAL		3						
	TCA	2							
	TCO	2							
	TCK		2						
	TGT		3						
	TPA		5						
	TQP	4							
TTA	2	1							
TOTALS			13	15					
STANDARD TREES	QUANTITY AS QUANTITY AS			GENUS	SPECIES	VAR./CULTIVAR/HYBRID	COMMON NAME	CALIPER/HEIGHT	B&B; symmetrical, single leader B&B; symmetrical, single leader B&B; symmetrical, single leader B&B; symmetrical, single leader B&B; symmetrical, single leader
	PLAN KEY	SITE TREES	STREET TREES						
	TAA		5						
	TCC	1	4						
	TJV	4							
	TLI	4							
	TQS	3							
TOTALS			12	4					
EVERGREEN SHRUBS	QUANTITY			GENUS	SPECIES	VAR./CULTIVAR/HYBRID	COMMON NAME	HEIGHT	
	PLAN KEY								
	SAG	39							
	SIG	26							
TOTALS									
DECIDUOUS SHRUBS	QUANTITY			GENUS	SPECIES	VAR./CULTIVAR/HYBRID	COMMON NAME	HEIGHT	
	PLAN KEY								
	SDL	19							
	SHQ	35							
	SIV	22							
	SSB	26							
TOTALS			167						
GROUNDCOVERS	QUANTITY			GENUS	SPECIES	VAR./CULTIVAR/HYBRID	COMMON NAME	SIZE/SPACING.	
	PLAN KEY								
	GRA	418							
TOTALS			612						
PERENNIALS, FERNS, ORNAMENTAL GRASSES	QUANTITY			GENUS	SPECIES	VAR./CULTIVAR/HYBRID	COMMON NAME	SIZE/SPACING.	
	PLAN KEY								
	GCS	488							
	GCM	421							
	GJE	445							
	GPV	57							
TOTALS			1411						

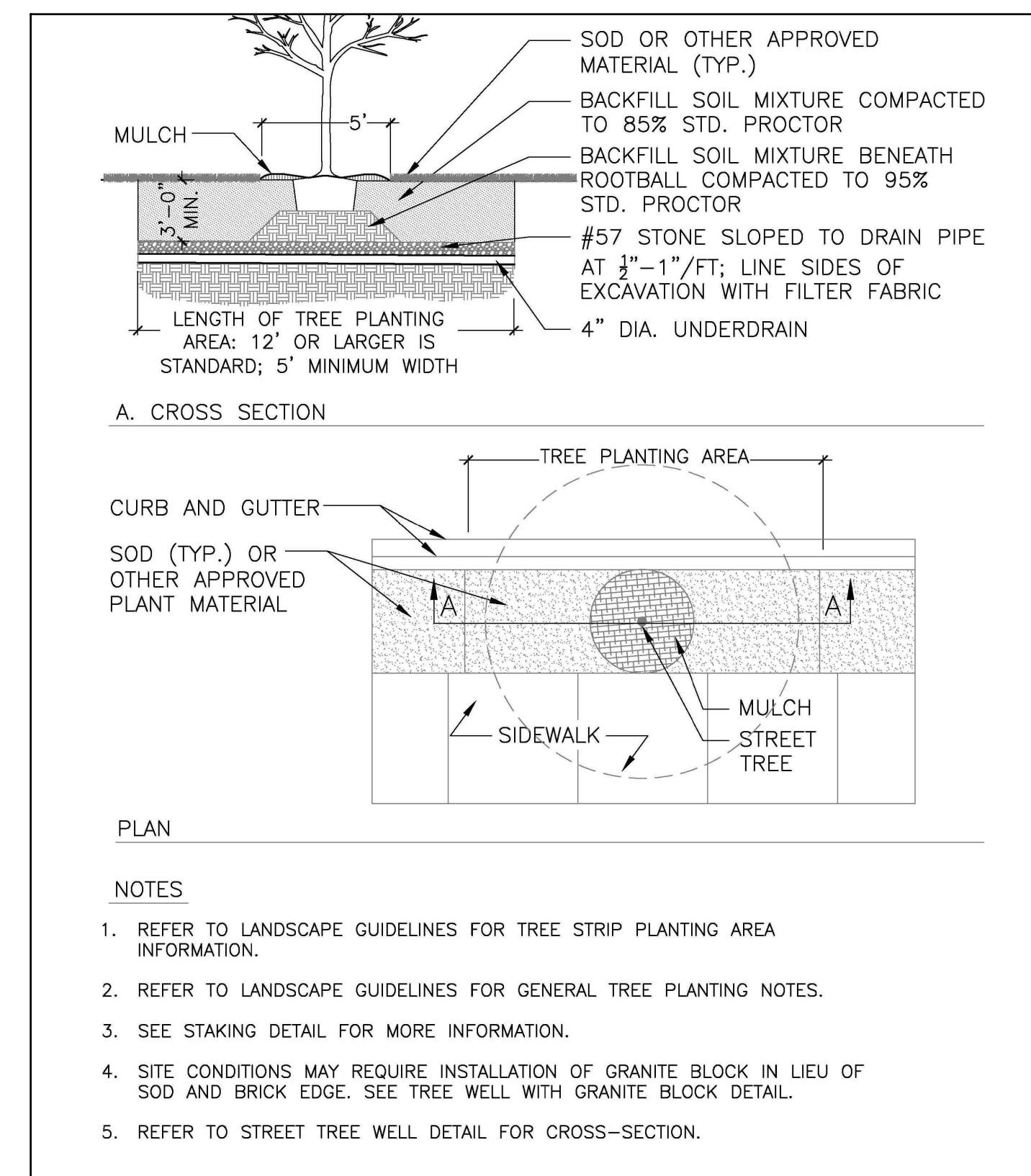
5 PLANT SCHEDULE
N/A



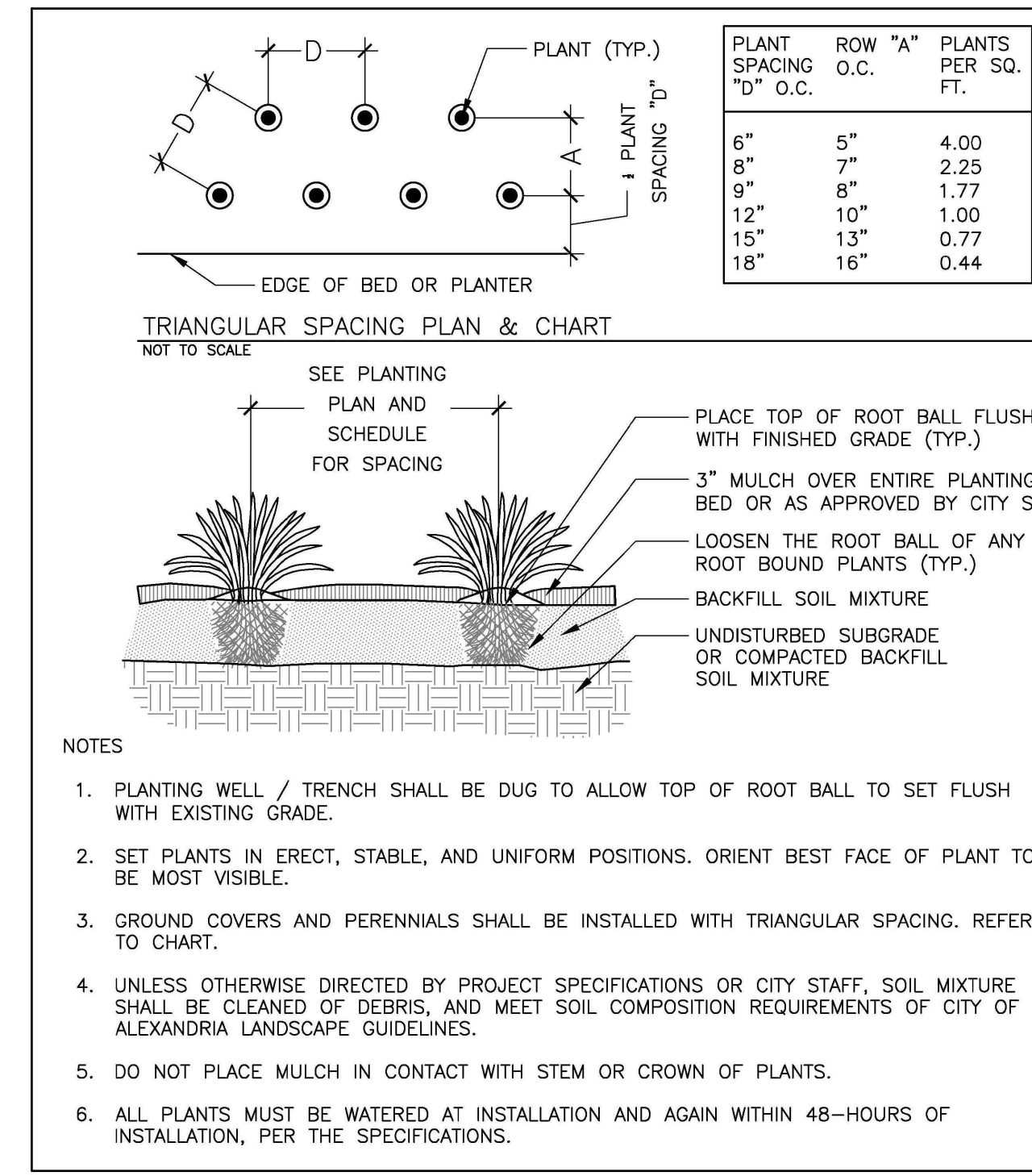
6 DECIDUOUS TREE PLANTING



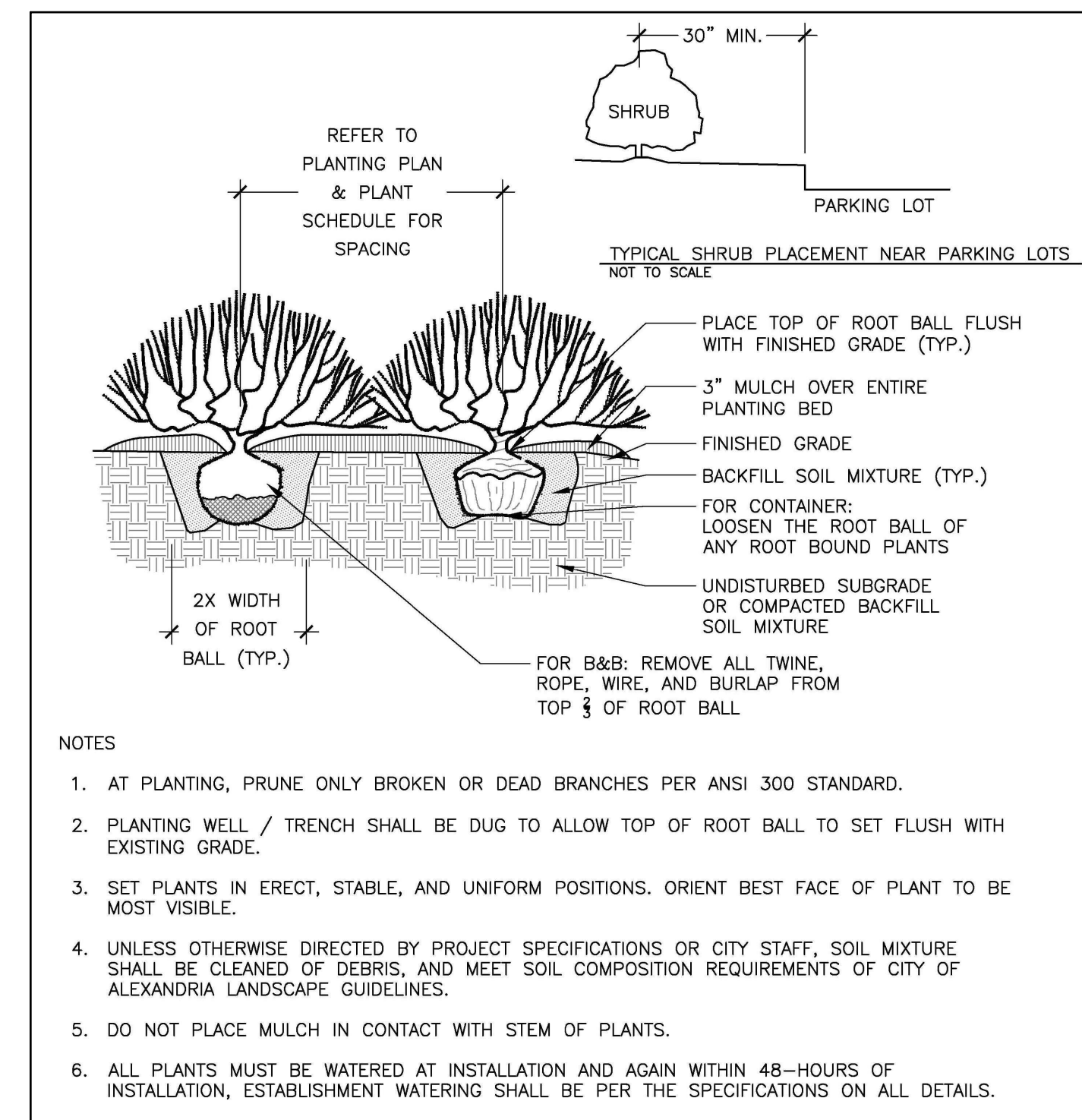
4 STREET TREE PLANTING WELL NTS



③ TREE PLANTING STRIP
NTS



2 GROUND COVER AND PERENNIAL PLANTING



1 SHRUB PLANTING

APPROVED SPECIAL USE PERMIT NO. _____	
DEPARTMENT OF PLANNING & ZONING	
_____ DIRECTOR	_____ DATE
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES	
SITE PLAN NO. 2018-0021	
_____ DIRECTOR	_____ DATE
_____ CHAIRMAN, PLANNING COMMISSION	
_____ DATE	
DATE RECORDED _____	
INSTRUMENT NO. _____	DEED BOOK NO. _____
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Charlottesville, VA 22914
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DEVELOPMENT PRELIMINARY SITE PLAN
ALEXANDRIA PRESBYTERIAN CHURCH
1300 WEST BRADDOCK ROAD
CITY OF ALEXANDRIA, VIRGINIA

[illegible]

DESIGN: KF
CHECKED: KF
SCALE:
DATE: August 22 2019

DRAWING TITLE:
PLANT SCHEDULE &
DETAILS

SHEET TITLE:

L-500

FLOOR PLANS

PROJECT NO. LEWA-21708



 F.A.R. EXCLUSIONS

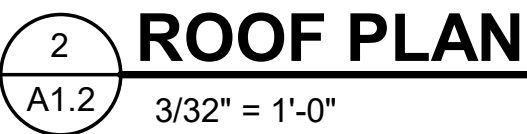
APPROVED	
SPECIAL USE PERMIT NO.	_____
DEPARTMENT OF PLANNING & ZONING	
DIRECTOR _____	DATE _____
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES	
SITE PLAN NO.	2018-0021
DIRECTOR _____	DATE _____
CHAIRMAN, PLANNING COMMISSION _____ DATE _____	
DATE RECORDED _____	
INSTRUMENT NO.	DEED BOOK NO.
_____	DATE _____

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FLOOR PLANS

PROJECT NO. LEWA-21708

TOTAL (GSF)	= 40,948 SF
TOTAL EXCLUSIONS	= 18,154 SF
TOTAL NET FLOOR AREA	= 22,794 SF



2 ROOF PLAN
A1.2 $3/32" = 1'-0"$



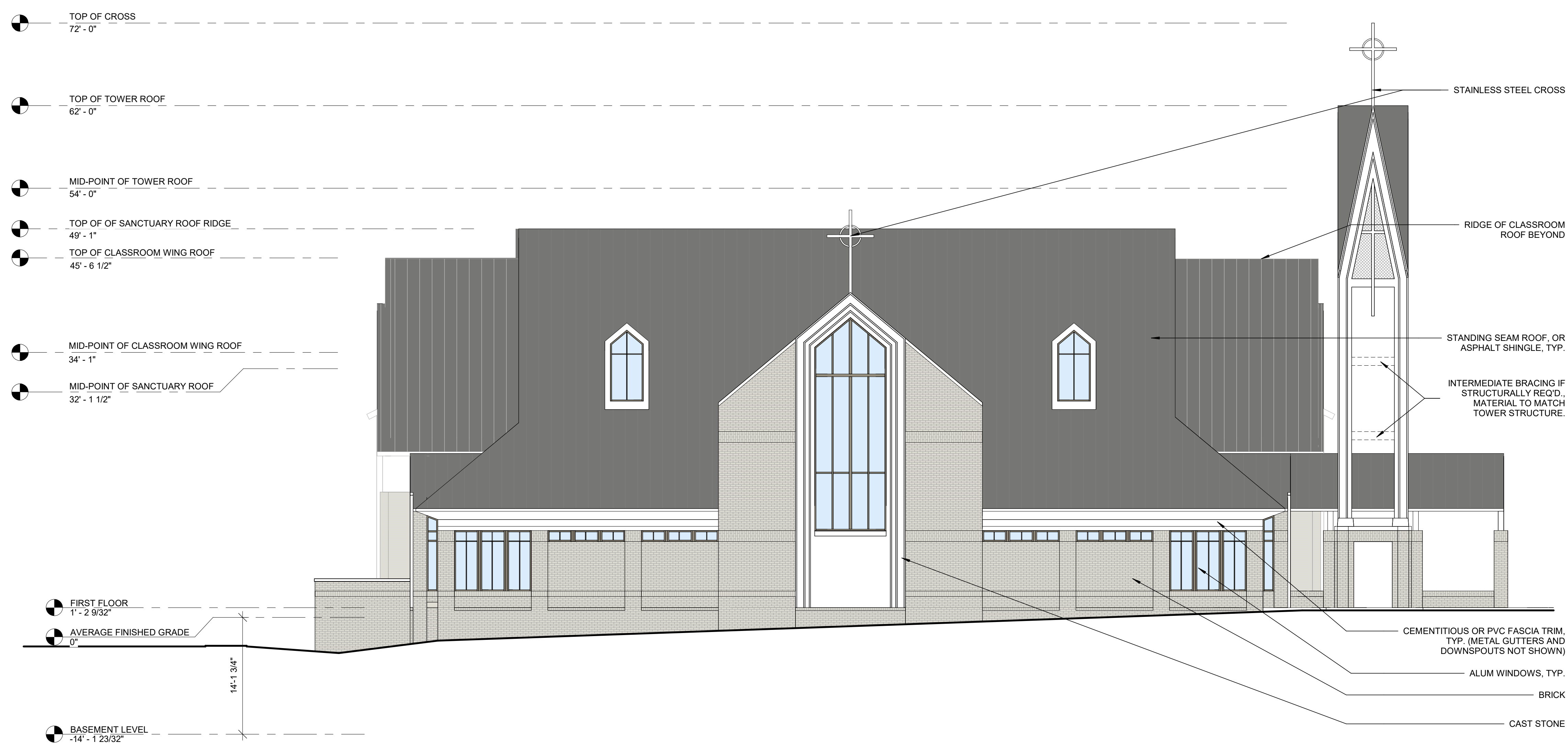
1 SECOND FLOOR PLAN
A1.2 3/32" = 1'-0"

F.A.R. EXCLUSIONS

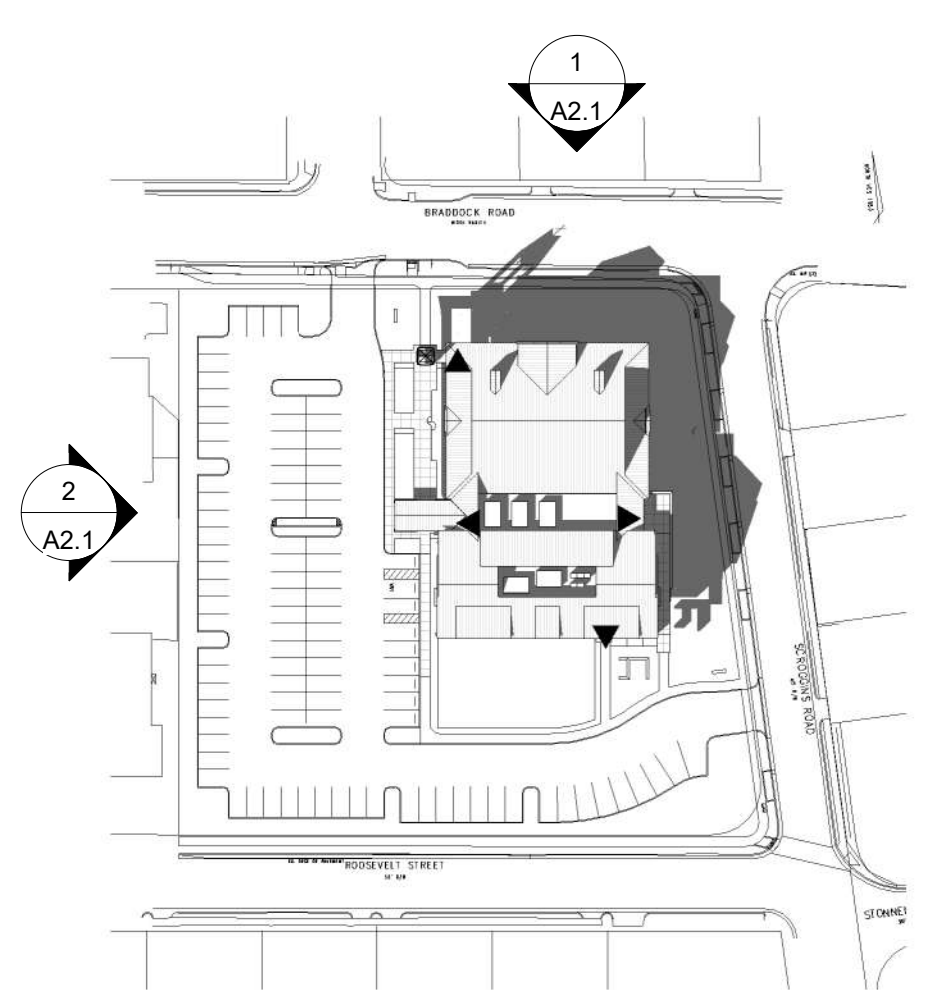
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SPECIAL USE PERMIT NO. _____	
DEPARTMENT OF PLANNING & ZONING	
_____ DIRECTOR	_____ DATE
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES	
SITE PLAN NO. <u>2018-0021</u>	
_____ DIRECTOR	_____ DATE
_____ CHAIRMAN, PLANNING COMMISSION	
_____ DATE	
DATE RECEIVED _____	
_____ INSTRUMENT NO.	_____ DEED BOOK NO.
_____ DATE	



2 WEST ELEVATION
A2.1 1/8" = 1'-0"



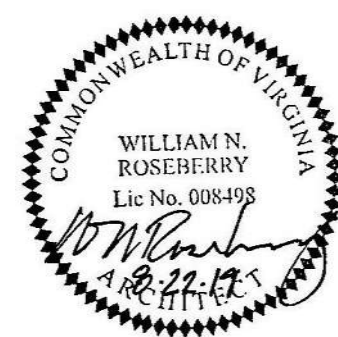
1 NORTH ELEVATION
A2.1 1/8" = 1'-0"



KEY PLAN

APPROVED	
SPECIAL USE PERMIT NO. _____	
DEPARTMENT OF PLANNING & ZONING	
DIRECTOR _____	DATE _____
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES	
SITE PLAN NO. 2018-0021	
DIRECTOR _____	DATE _____
CHAIRMAN, PLANNING COMMISSION _____	
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DATE _____	

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SEAL
DATE OF RECORD
08/22/19

EXTERIOR
ELEVATIONS

A2.2

PROJECT NO. LEWA-21708



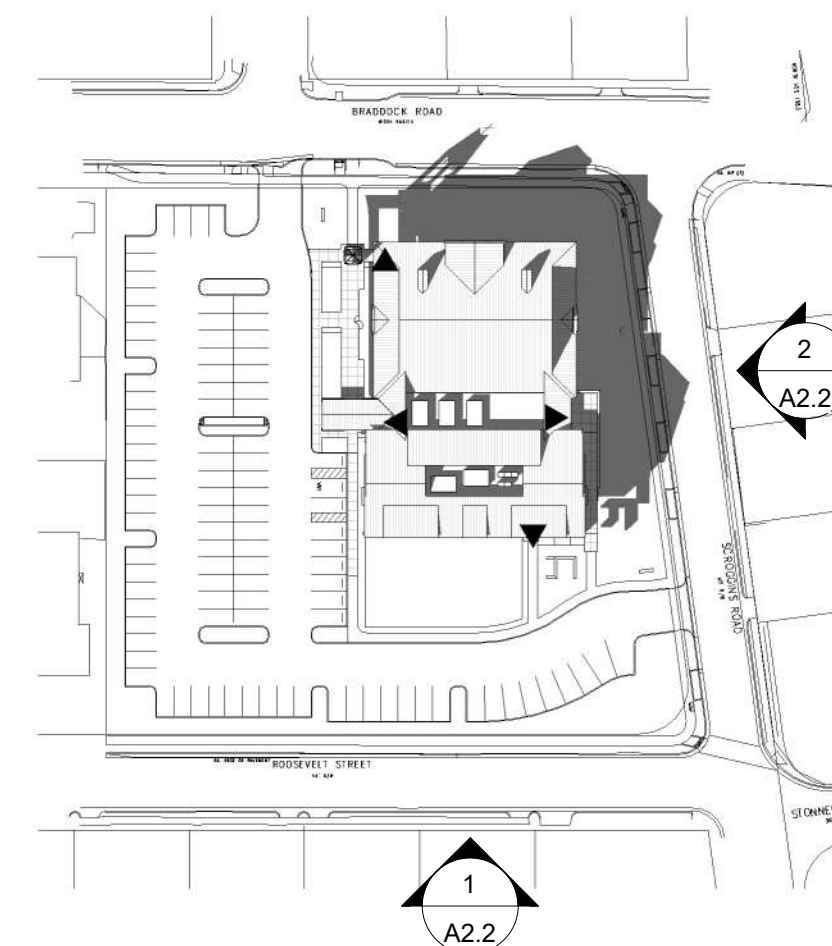
2
A2.2
1/8" = 1'-0"

EAST ELEVATION



1
A2.2
1/8" = 1'-0"

SOUTH ELEVATION

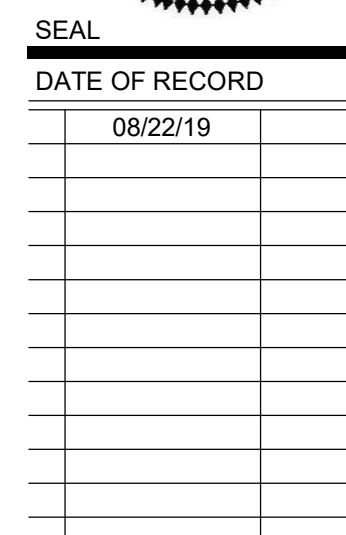


KEY PLAN

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SPECIAL USE PERMIT NO. _____	
DEPARTMENT OF PLANNING & ZONING	
DIRECTOR _____	DATE _____
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES	
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1300 WEST BRADDOCK RD,
ALEXANDRIA, VA 22302

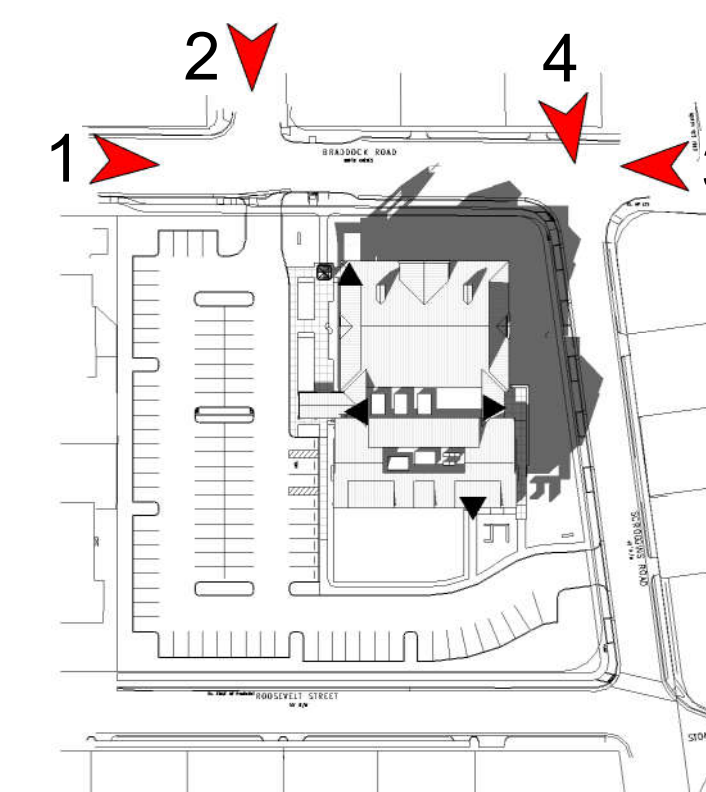


A4.1

PROJECT NO. LEWA-21708



APPROVED	
SPECIAL USE PERMIT NO. _____	
DEPARTMENT OF PLANNING & ZONING	
_____ DIRECTOR	_____ DATE
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES	
SITE PLAN NO. <u>2018-0021</u>	
_____ DIRECTOR	_____ DATE
CHAIRMAN, PLANNING COMMISSION	
_____ DATE RECORDED	_____
INSTRUMENT NO. _____	DEED BOOK NO. _____
DATE _____	

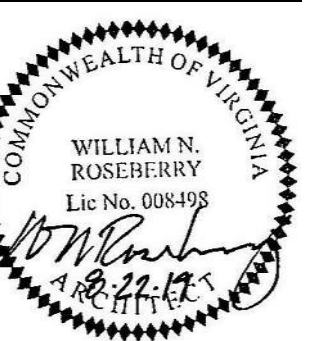


APPROVED SPECIAL USE PERMIT NO. _____	
DEPARTMENT OF PLANNING & ZONING _____	
DIRECTOR _____	DATE _____
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES SITE PLAN NO. _____ 2018-0021	
DIRECTOR _____	DATE _____
CHAIRMAN, PLANNING COMMISSION _____	
DATE RECORDED _____	
INSTRUMENT NO. _____	DEED BOOK NO. _____
DATE _____	

LE MAY
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AL

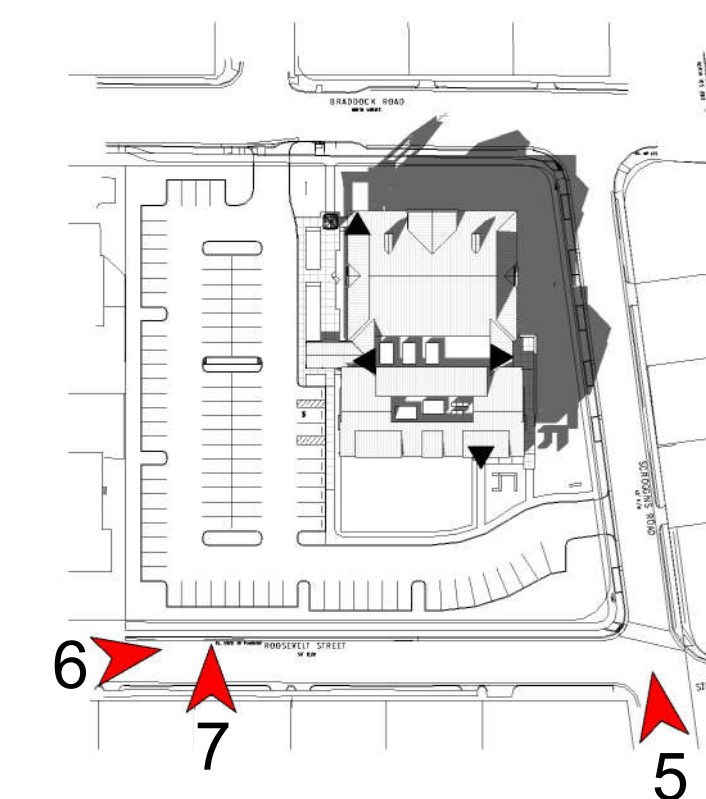
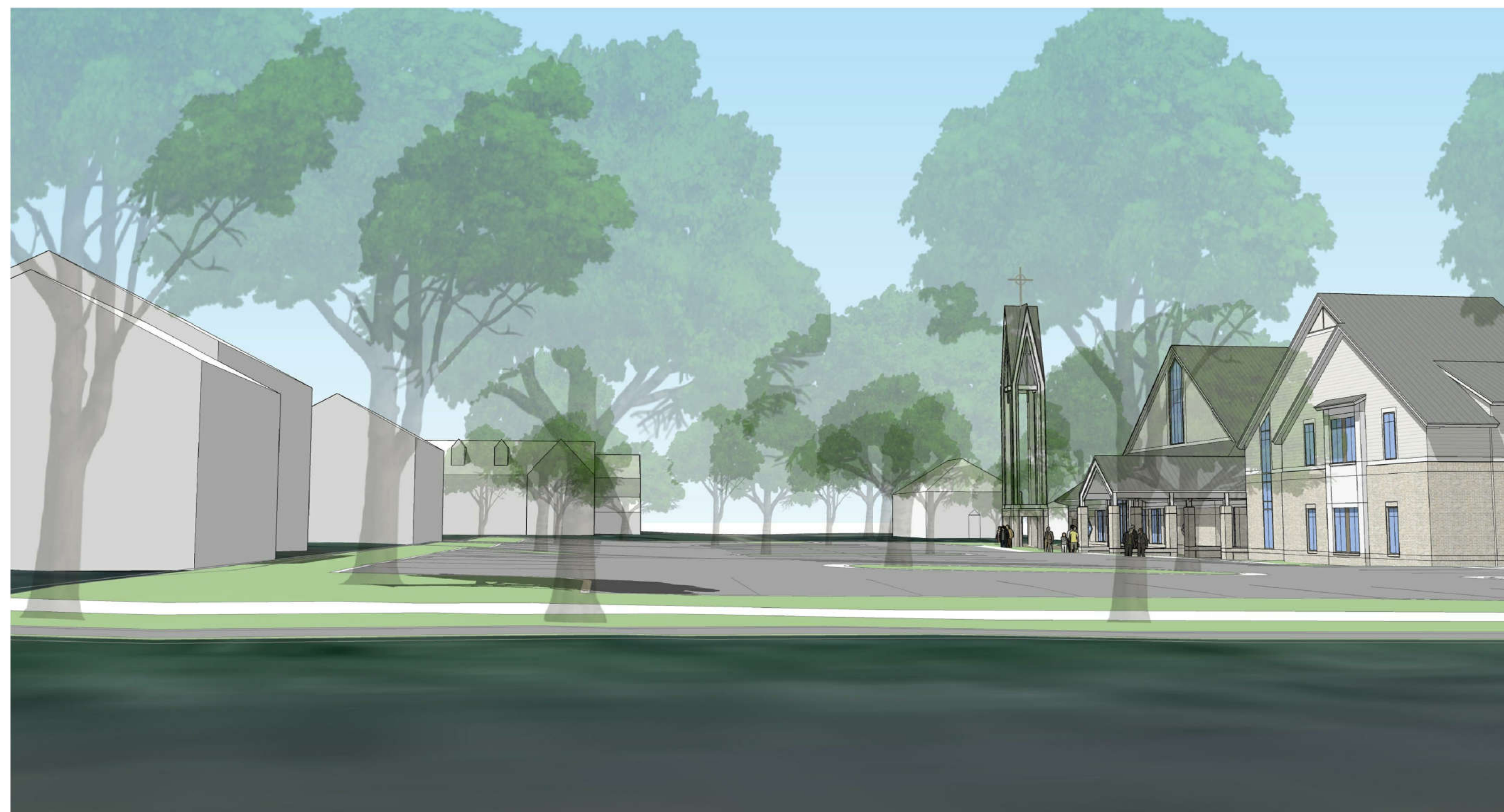
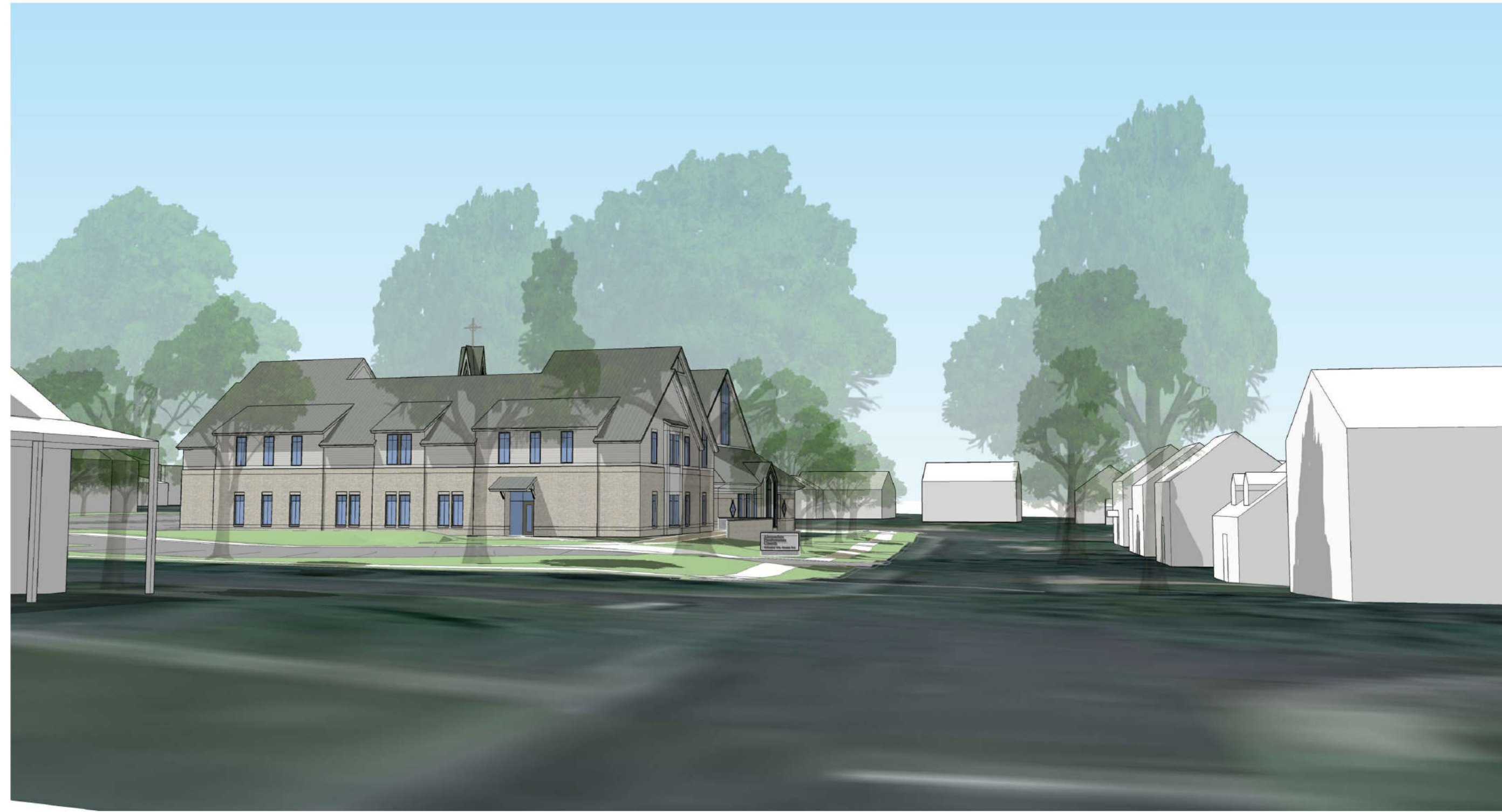
DATE OF RECORD

22/19	
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PERSPECTIVE VIEWS

A4.2

PROJECT NO. LEWA-21708

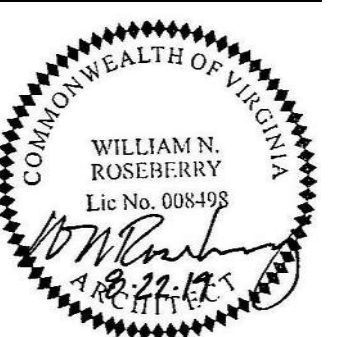


APPROVED SPECIAL USE PERMIT NO. _____ DEPARTMENT OF PLANNING & ZONING _____ DIRECTOR _____ DATE DEPARTMENT OF TRANSPORTATION & INFRASTRUCTURE SERVICES SITE PLAN NO. <u>2018-0021</u> _____ DIRECTOR _____ DATE CHAIRMAN, PLANNING COMMISSION DATE RECORDED _____ INSTRUMENT NO. _____ DEED BOOK NO. _____ DATE _____	
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[illegible]

PERSPECTIVE VIEWS

A4.3

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