DEVELOPMENT PRELIMINARY PLAN

AVANTI 550

CITY OF ALEXANDRIA, VIRGINIA

AREA TABULATIONS

TOTAL SITE AREA = ______ 0.76 _____ AC ____32,987 _____ SF TOTAL AREA OF TAX PARCELS = 0.76 AC 32,987 SF TOTAL EXISTING IMPERVIOUS AREA = _____ O.00 ___ AC ____ O.00 ___ SF TOTAL PROPOSED IMPERVIOUS AREA = ______ 0.58 ____ AC ____25,443 ____ SF TOTAL DISTURBED AREA = 0.76 AC 33,231 SF

ENVIRONMENTAL SITE ASSESSMENT

THERE ARE NO TIDAL WETLANDS, TIDAL SHORES, TRIBUTARY STREAMS, FLOODPLAINS, CONNECTED TIDAL WETLANDS, ISOLATED WETLANDS, OR BUFFER AREA ASSOCIATED WITH SHORES, STREAMS OR WETLANDS LOCATED ON THIS SITE. FURTHER THERE ARE NO WETLANDS PERMITS REQUIRED FOR THIS DEVELOPMENT PROJECT ADDITIONALLY, THERE ARE NO KNOWN UNDERGROUND STORAGE TANKS, AREAS OF SOIL OR GROUNDWATER CONTAMINATION. NOR AREAS WITH THE POTENTIAL FOR

- THE CITY OF ALEXANDRIA DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES, DIVISION OF ENVIRONMENTAL QUALITY MUST BE NOTIFIED IF UNUSUAL UNANTICIPATED CONTAMINATION OR UNDERGROUND STORAGE TANKS, DRUMS AND CONTAINERS ARE ENCOUNTERED AT THE SITE. IF THERE IS ANY DOUBT TO PUBLI
- ALL WELLS TO BE DEMOLISHED IN THIS PROJECT, INCLUDING MONITORING WELLS, MUST BE CLOSED IN ACCORDANCE WITH VIRGINIA STATE WATER CONTROL BOARD (VSWCB) REQUIREMENTS. CONTACT ENVIRONMENTAL HEALTH SPECIALIST AND COORDINATE WITH THE ALEXANDRIA HEALTH DEPARTMENT AT 703-838-4400 EXT
- ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE ALEXANDRIA NOISE CONTROL CODE TITLE 11, CHAPTER 5, WHICH PERMITS CONSTRUCTION ACTIVITIES 1 OCCUR BETWEEN THE FOLLOWING HOURS:
 - MONDAY THROUGH FRIDAY FROM 7am TO 6pm AND
 - SATURDAYS FROM 9am TO 6pm
 - NO CONSTRUCTION ACTIVITIES ARE PERMITTED ON SUNDAYS PILE DRIVING IS FURTHER RESTRICTED TO THE FOLLOWING HOURS:
 - MONDAY THROUGH FRIDAY FROM 9am TO 6pm AND
 - SATURDAYS FROM 10am TO 4pm

ENVIRONMENTAL PERMITS NOTES

THIS PROJECT PROPOSES CONSTRUCTION ACTIVITIES WHICH DISTURB LESS THAN 1 ACRE, THEREFORE A VPDES PERMIT IS NOT REQUIRED

ARCHAEOLOGY NOTES

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 HISTORIC OR PREHISTORIC 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 NON-PROFESSIONAL METAL DETECTION AND/OR ARTIFACT COLLECTION TO BE CONDUCTED ON THE PROPERTY, UNLESS AUTHORIZED BY ALEXANDRIA ARCHAEOLOGY. FAILURE TO COMPLY SHALL RESULT IN PROJECT DELAYS.

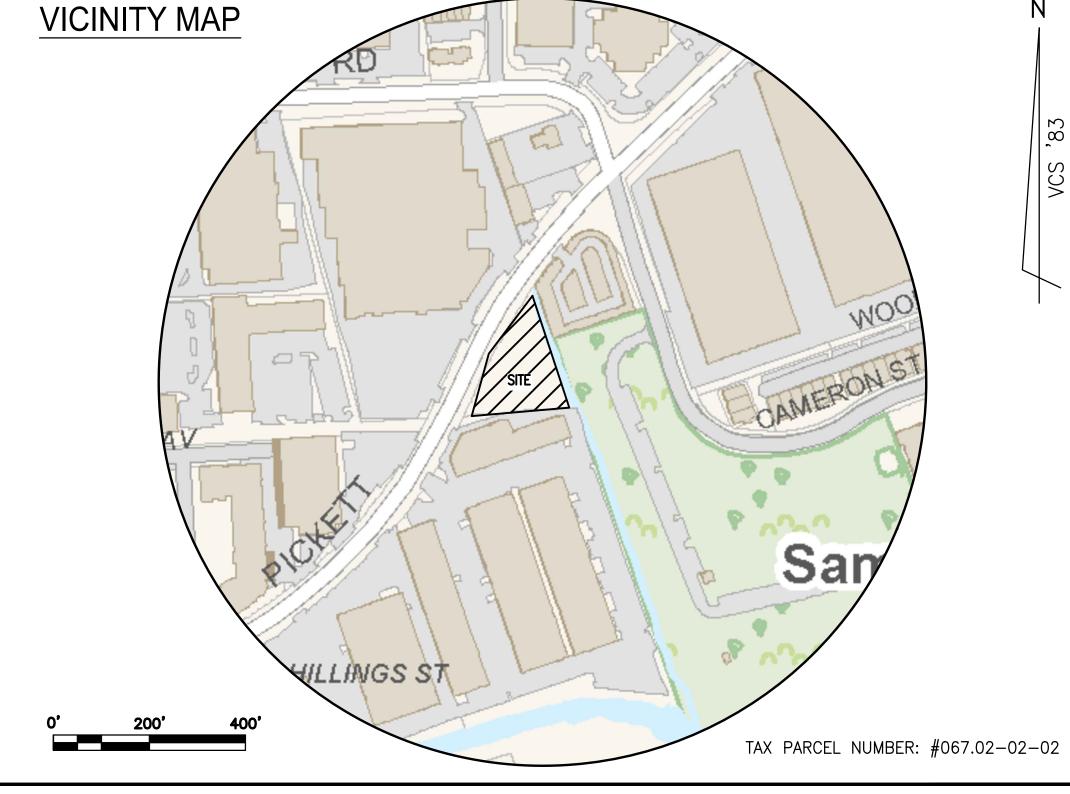
ALL REQUIRED ARCHAEOLOGICAL PRESERVATION MEASURES SHALL BE COMPLETED IN COMPLIANCE WITH SECTION 11-411 OF THE ZONING ORDINANCE.

GENERAL NOTES

- PRIOR TO THE APPLICATION FOR NEW CERTIFICATE OF OCCUPANCY, THE APPLICANT SHALL SUBMIT A BUILDING PERMIT FOR A CHANGE OF USE DRAWINGS PREPARED BY A LICENSED ARCHITECT OR PROFESSIONAL ENGINEER SHALL ACCOMPANY THE PERMIT APPLICATION. THE PLANS SHALL SHOW PROPOSED CONDITIONS AND PROVIDE DATA BY THE DESIGN PROFESSIONAL WHICH DETAILS HOW THE PROPOSED USE WILL COMPLY WITH THE CURRENT EDITION OF THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE FOR THE NEW USE IN THE AREA OF STRUCTURAL STRENGTH, MEANS OF EGRESS. PASSIVE AND ACTIVE FIRE PROTECTION. HEATING AND VENTILATING SYSTEMS. HANDICAPPED ACCESSIBILITY AND PLUMBING FACILITIES.
- NEW CONSTRUCTION MUST COMPLY WITH THE CURRENT EDITION OF THE UNIFORM STATEWIDE BUILDING CODE (USBC).
- BEFORE A BUILDING PERMIT CAN BE ISSUED ON ANY PROPOSED FUTURE ALTERATIONS, A CERTIFICATION IS REQUIRED FROM THE OWNER OWNER'S AGENT THAT THE BUILDING HAS BEEN INSPECTED BY A LICENSED ASBESTOS INSPECTOR FOR THE PRESENCE OF ASBESTOS.
- A CERTIFICATE OF OCCUPANCY SHALL BE OBTAINED PRIOR TO ANY OCCUPANCY OF THE BUILDING OR PORTION THEREOF.
- REQUIRED EXITS, PARKING, AND ACCESSIBILITY WITHIN THE BUILDING FOR PERSONS WITH DISABILITIES MUST COMPLY WITH USBC CHAPTER HANDICAPPED ACCESSIBLE BATHROOMS SHALL ALSO BE PROVIDED.
- TOILET FACILITIES FOR PERSONS WITH DISABILITIES: LARGER, DETAILED, DIMENSIONED DRAWINGS ARE REQUIRED TO CLARIFY SPACE LAYOUT AN MOUNTING HEIGHTS OF AFFECTED ACCESSORIES. INFORMATION ON DOOR HARDWARE FOR THE TOILET STALL IS REQUIRED (USBC 1109.2.2).
- IF APPLICABLE, ENCLOSED PARKING GARAGES MUST BE VENTILATED IN ACCORDANCE WITH USBC 406.4.2. THE REQUIRED MECHANICAL VENTILATION RATE FOR AIR IS 0.75 CFM PER SQUARE FOOT OF THE FLOOR AREA (USBC 2801.1). IN AREAS WHERE MOTOR VEHICLES OPERATE FOR A PERIOD OF TIME EXCEEDING 10 SECONDS, THE VENTILATION RETURN AIR MUST BE EXHAUSTED. AN EXHAUST SYSTEM MUST BE PROVIDED TO CONNECT DIRECTLY TO THE MOTOR VEHICLE EXHAUST (USBC 2801.1).
- ELECTRICAL WIRING METHODS AND OTHER ELECTRICAL REQUIREMENTS MUST COMPLY WITH NFPA 70, 2008.
- IF APPLICABLE, THE PUBLIC PARKING GARAGE FLOOR MUST COMPLY WITH USBC 406.2.6 AND DRAIN THROUGH OIL SEPARATORS OR TRAPS TO AVOID ACCUMULATION OF EXPLOSIVE VAPORS IN BUILDING DRAINS OR SEWERS AS PROVIDED FOR IN THE PLUMBING CODE (USBC 2901). THIS PARKING GARAGE IS CLASSIFIED AS AN S-2, GROUP 2, PUBLIC GARAGE.
- O. THIS PROJECT IS NOT LOCATED IN A COMBINED SEWER AREA.
- 1. THIS SITE DOES NOT CONTAIN AREAS PREVIOUSLY MAPPED AS MARINE CLAYS.
- 12. THIS SITE IS NOT LOCATED WITHIN 1,000 FEET OF A FORMER LANDFILL OR OTHER DUMP SITE.

SURVEYOR'S CERTIFICATION

RONALD J. KELLER, LS HEREBY CERTIFY THAT THIS PROPERTY IS IN THE NAME OF AVANTI HG 550, LLC AS RECORDED AT INST. #200000698 AMONG THE LAND RECORDS OF THE CITY OF ALEXANDRIA, VA.



PROJECT DESCRIPTION NARRATIVE

THE APPLICANT REQUESTS A DEVELOPMENT SITE PLAN TO PERMIT THE DEVELOPMENT OF THE EXISTING VACANT SITE INTO A PROPOSED WAREHOUSE/RETAIL BUILDING WITH ASSOCIATED SITE IMPROVEMENTS. PROPOSED SITE ACCESS IS OFF OF SOUTH PICKETT STREET.

REQUESTED APPLICATIONS AND MODIFICATIONS:

MODIFICATION OF THE CITY OF ALEXANDRIA TREE CANOPY COVERAGE REQUIREMENTS MODIFICATION OF THE REQUIRED FRONT SETBACK AS ESTABLISHED THROUGH CITY OF ALEXANDRIA ZONING ORDINANCE ARTICLE VII SEC 7-1006 (F)

OWNER/DEVELOPER

AVANTI HG 550, LLC 1605 KING STREET, UNIT 3 ALEXANDRIA, VA 22314 INSTRUMENT #: 200000698 TEDDY.KIM@ME.COM

ATTORNEY:

(703) 528-4700

LANDSCAPE PLAN_

PLANT SCHEDULE

LIGHTING PLAN_

ROOF LANDSCAPE PLAN_

LANDSCAPE NOTES AND DETAILS_

DEVELOPER: AVANTI HG 550, LLC 1605 KING STREET, UNIT 3 ALEXANDRIA, VA 22314 INSTRUMENT #: 200000698 TEDDY.KIM@ME.COM

ARCHITECT: WALSH, COLUCCI, LUBELEY & WALSH, P.C COLE & DENNY ARCHITECTS 333 N. FAIRFAX STREET, SUITE 300 ALEXANDRIA, VA 22314 (703) 684-5994 CONTACT: MICHAEL DETOMO

LANDSCAPE ARCHITECT: 6416 GROVESALE DRIVE, SUITE 100-A ALEXANDRIA, VA 22310 (703) 719-6500 CONTACT: DAN DOVE MDETOMO@COLEANDDENNY.COM DDOVE@STUDIO39.COM

L4.01

L4.02

L5.01

L5.02

PLAN PREPARED BY:

ALEXANDRIA, VA 22314

CONTACT: TAYLOR DOYLE

TDOYLE@RCFASSOC.COM

(703) 549-6422

R.C. FIELDS & ASSOCIATES, INC.

700 S. WASHINGTON STREET, SUITE 220

SHEET INDEX:

2200 CLARENDON BLVD, SUITE 1300

CONTACT: M. CATHARINE PUSKAR

CPUSKAR@THELANDLAWYERS.COM

ARLINGTON, VIRGINIA 22201

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FAR-FLOOR AREA RATIOS BASEMENT FLOOR PLAN A1.01 A1.02 FIRST FLOOR PLAN A1.03 ROOF PLAN RENDERING AND ELEVATIONS A2.01 **ELEVATIONS** _A2.02 BUILDING SECTIONS_ _A3.01 A4.01 PERSPECTIVE VIEWS

ZONING TABULATIONS TAX MAP #: <u>#067.02-02-02</u>

2.	ZONE OF SITE:	<u>I (INDUSTRIA</u>	L)			
3.	USE:	EXISTING:	VACANT LAND WAREHOUSE/RET	AIL		
4.	TOTAL LOT AREA:	32,987 SF ((0.76 AC)	MINIM	JM LOT AREA: <u>N/A</u>	
5.	FRONTAGE:	REQUIRED:	N/A			
		EXISTING:	312.25'	PROP	OSED: <u>312.25'</u>	
6.	LOT WIDTH:	REQUIRED:	N/A	PROP	OSED: <u>N/A</u>	
7.	NUMBER OF UNITS:	N/A				
8.	UNITS PER ACRE:	N/A				
9.	FLOOR AREA:		GROSS	NET		
		RETAIL AREA	10,070 SF	9,595 SF		
		INDUSTRIAL	5,223 SF	5,072 SF		
		BUILDING AREA		14.667 SF		

10. FLOOR AREA RATIO: PERMITTED: <u>0.85 (28,039 SF)</u> AT GRADE <u>0.44 (14,667 SF)</u> ABOVE GRADE N/A

GARAGE AREA 10,278 SF N/A

12. AVERAGE FINISHED GRADE: REQUIRED: <u>50 FT FROM S. PICKETT ST CL**</u>

PROPOSED: 20 FT (EAST); 30 FT (SOUTH) **PER CITY OF ALEXANDRIA ZONING ORDINANCE ARTICLE VII SEC 7-1006 (F) 15. PARKING TABULATION:

> INDUSTRIAL BUILDINGS [OTHER THAN LONG TERM STORAGE] (SF) (NET FLOOR AREA) = 5,072 SF 1.2 SPACE/500 SQ. FT. = (1.2/500)*5,072 SF:

FLOOR AREA (SF) (NET FLOOR AREA) = 9,595 SF MINIMUM - 0.25 SPACES/1,000 SQ. FT. = (0.25/1000)*9,595 SF: 3 SPACES MAXIMUM - 3 SPACES/1,000 SQ. FT. = (3/1000)*9,595 SF: 29 SPACES 16 SPACES 42 SPACES MINIMUM TOTAL PARKING REQUIRED: 13 + 3 = MAXIMUM TOTAL PARKING REQUIRED: 13 + 29 =

PROVIDED: 26 PARKING SPACES (WITHIN GARAGE) STANDARD PARKING SPACES (9'X18.5'): ACCESSIBLE PARKING SPACES: VAN ACCESSIBLE PARKING SPACES: TOTAL PARKING

16. LOADING SPACES: REQUIRED: PROPOSED: 17. TRIP GENERATION: EXISTING AM PEAK 0 AVT PROPOSED AM PEAK 10 AVT EXISTING PM PEAK 0 AVT PROPOSED PM PEAK 39 AVT PROPOSED VPD 389 VPD EXISTING VPD 0 VPD (PER ITE STANDARDS) (PER ITE STANDARDS)

BUILDING CODE ANALYSIS:

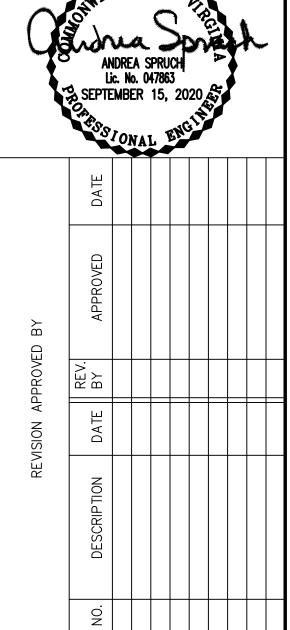
BUILDING HEIGHT:

USE:	1ST FLOOR: MERCANTILE (RETAIL), MERCANTILE STORAGE, STOCK (WAREHOUSE) GARAGE FLOOR: PARKING GARAGE
USE GROUP:	SEPARATED MIXED USE 1ST FLOOR: MERCANTILE (M) & STORAGE LOW-HAZARD (S-2) GARAGE FLOOR: STORAGE LOW-HAZARD (ENCLOSED PARKING GARAGE) (S-2)
TYPE OF CONSTRUCTION:	II-A
NUMBER OF STORIES:	1 STORY WITH PARKING GARAGE
FLOOR AREA (GROSS):	15,293 SF
FLOOR AREA (NET):	14,667 SF
BUILDING FOOT PRINT AREA:	15,750 SF

COMPLETE STREETS INFORMATION:

FIRE SUPPRESSION/DETECTION: FULLY SPRINKLERED

	NEW	UPGRADED
CROSSWALKS (NUMBER)	1	N/A
STANDARD	N/A	N/A
HIGH VISIBILITY	1	N/A
CURB RAMPS	2	N/A
SIDEWALKS (LF)	295	N/A
BICYCLE PARKING (NUMBER SPACES)	4	N/A
PUBLIC/VISITOR	4	N/A
PRIVATE/GARAGE	N/A	N/A
BICYCLE PATHS (LF)	N/A	N/A
PEDESTRIAN SIGNALS	N/A	N/A

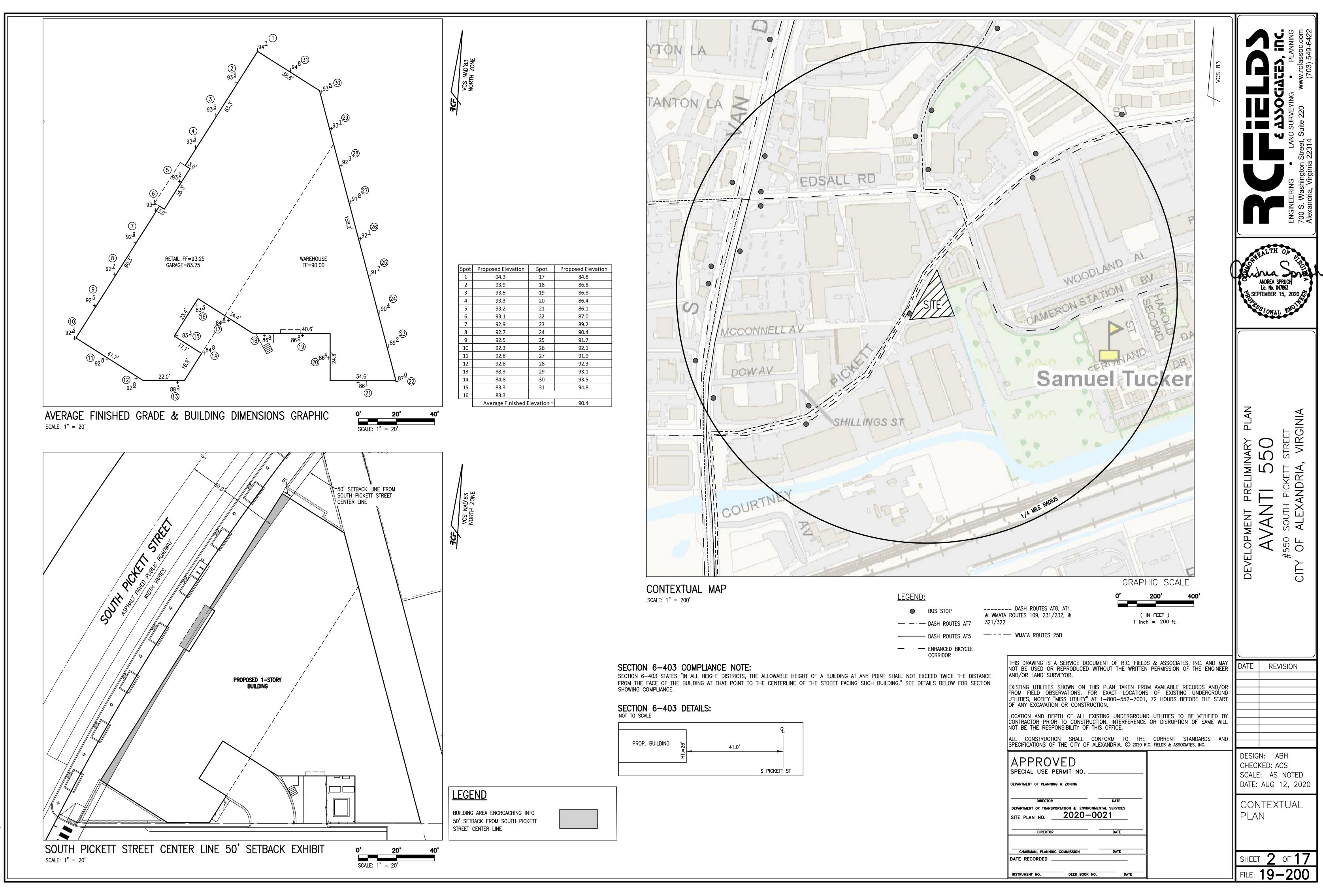


PRELIMINARY

PMENT

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APPROVED SPECIAL USE PERMIT NO. DEPARTMENT OF PLANNING & ZONING 2020-0021 DATE RECORDED DEED BOOK NO. DATE



TEXT LEGEND: • = DEGREES ' = MINUTES (OR FEET) " = SECONDS (OR INCHES) % = PERCENT# = NUMBER: О = АТ lbs = POUNDS A = ARCAC = ACREADA = AMERICANS W/ DISABILITIES ACT APPROX = APPROXIMATEBC = BOTTOM OF CURBBF = BASEMENT FLOORBFE = BASE FLOOD ELEVATION BLDG = BUILDINGBM = BENCHMARKBSMT = BASEMENTBOL = BOLLARDBW = BOTTOM OF WALLCATV = CABLE UTILITYCL = CLASSC/L = CENTERLINECLR = CLEARANCECLF = CHAIN LINK FENCE CMP = CORRUGATED METAL PIPE CI = CURB INLETCO = CLEAN OUTCONC = CONCRETEC&G = CURB & GUTTERCVR = COVERDB = DEED BOOKDHF = DRILL HOLE FOUND DIP = DUCTILE IRON PIPE DOM = DOMESTICDU = DWELLING UNITE = EASTEBOX = ELECTRICAL BOXESMT = EASEMENTEP = EDGE OF PAVEMENTEVE = EMERGENCY VEHICLE EASEMENT EX = EXISTINGFDC = FIRE DEPT. CONNECTION FF = FINISH FLOORFH = FIRE HYDRANTFT = FEETGI = GRATE INLETG/L = GAS LINEGM = GAS METERG/S = GAS SERVICEGV = GAS VALVE HC = HEADER CURBHDCP = HANDICAPHDPE = HIGH DENSITY POLYETHYLENE HP = HIGH POINTHPS = HIGH PRESSURE SODIUM IPF = IRON PIPE FOUND INV = INVERTINSTR = INSTRUMENT INTX = INTERSECTION IRF = IRON ROD FOUND L = LUMENSLAT = LATERALLED = LIGHT EMITTING DIODE LL = LANDSCAPE LIGHT LOC = LOCATIONLP = LIGHT POLE MAX = MAXIMUMME = MATCH EXISTINGMH = MANHOLEMIN = MINIMUMMON = MONUMENTMPH = MILES PER HOUR MW = MONITORING WELL N = NORTHOHW = OVERHEAD WIRE PED = PEDESTRIANPN = PANELPG = PAGEPP = POWER POLE PROP = PROPOSEDPVC = POLYVINYL CHLORIDE R = RADIUSRCP = REINFORCED CONCRETE PIPE RELOC = RELOCATEDRET = RETAININGRESID = RESIDENTIALREQ = REQUIREDROW = RIGHT-OF-WAYS = SOUTHSAN = SANITARYSEW = SEWERSF = SQUARE FEETSQ FT = SQUARE FEETSTM = STORMSTR = STRUCTURE SW = SIDEWALKTBR = TO BE REMOVEDTBS = TO BE SAVEDTM = TAX MAPTMH = TELEPHONE MANHOLE TC = TOP OF CURBTW = TOP OF WALL

TRAF SIG = TRAFFIC SIGNAL

VPD = VEHICLES PER DAY

UGE = UNDERGROUND ELECTRIC

VCS = VIRGINIA COORDINATE SYSTEM

WSE = WATER SURFACE ELEVATION

TYP = TYPICAL

W = WEST

UP = UTILITY POLE

W/L = WATER LINE

WM = WATER METER

WV = WATER VALVE WW = WINDOW WELL XING = CROSSING

W/S = WATER SERVICE

SYMBOLS LEGEND	EXISTING	PROPOSED
ITEM	EXISTING	PROPOSED
FIRE HYDRANT	<u> </u>	
AIR CONDITIONING UNIT	AC	AC
UTILITY POLE	Q	Ą
FIRE DEPARTMENT CONNECTION		٨
STORM STRUCTURE IDENTIFIER	#	#
STORM MANHOLE		
STORM SEWER LAYOUT		
SANITARY STRUCTURE IDENTIFIER	X	\otimes
SANITARY MANHOLE	(2)	S
SANITARY SEWER LAYOUT		
SIDEWALK	WALK	WALK
SIGN		Ь
SIGN (DOUBLE POST)	-0 0	- 0 0
GAS VALVE	GV	 SX
GAS LINE	G G	—— G —
GAS METER	GM	GM
IRRIGATION VALVE	⊘ ^{IV}	€ ^V
BOLLARD	•	•
CLEANOUT	co	ço
WELL	(W)	®
WATERLINE		
WATER VALVE	₩V	 ₩
WATER METER	₩ _{WM}	•
TRANSFORMER	TR	TR
ELECTRIC MANHOLE	©	Đ
ELECTRIC METER	EM O	<u> </u>
ELEC BOX/STRUCTURE	EB	 EB
ELECTRIC LINE	E E	E
TELECOMMUNICATION LINE	TT	т_
CABLE LINE	— c — c —	— c — (
CABLE/ELECTRIC/ TELECOMMUNICATION LINE	CT F	—— C— T— E
TELECOMMUNICATION MANHOLE	\bigcirc	•
TELECOMMUNICATION STRUCTURE	C	C
OVERHEAD STREET LIGHT	· · · · · ·	•—•
LIGHT POLE	*	\$
LANDSCAPE LIGHT		<u>~</u>
FENCES	XX	xx_
GRADING SPOT	+124.5	+ 24 ⁵⁰
GRADING CONTOUR	124	124 <i></i>
BUILDING ENTRANCE	$\overline{\nabla}$	V
PAVING		
GUARDRAIL	0 0 0	0 0
CURB AND GUTTER		
PROPOSED SPILL CURB		
PROPOSED TRANSITION/ NOSE DOWN CURB		
LIMITS OF DISTURBANCE		

GENERAL NOTES:

TAX MAP: #067.02-02-02
 ZONE: I (INDUSTRIAL)
 OWNER: AVANTI HG 550, LLC 1605 KING STREET, UNIT 3 ALEXANDRIA, VA 22314 INSTR. #200000698

4. TOPOGRAPHIC SURVEY WAS RUN BY THIS FIRM. VERTICAL DATUM USED = NAVD '88 PER NGS MONUMENT #HV9314. ELEVATION = 124.90'

5. THE PROPERTY IS LOCATED IN OTHER AREAS ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AND OTHER FLOOD AREAS ZONE X (AREAS OF 0.2% ANNUAL CHANCE FLOOD: AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD) AS SHOWN ON THIS FLOOD INSURANCE RATE MAP, CITY OF ALEXANDRIA, VIRGINIA INDEPENDENT CITY, PANEL 17 OF 45, MAP NUMBER 5155190017E, WITH A MAP REVISED DATE OF JUNE 16, 2011.

6. TITLE REPORT FURNISHED BY COMMONWEALTH LAND TITLE INSURANCE COMPANY, FILE NO. 81C276B49 DATED 11/18/19 AND IS RELIED UPON AS ACCURATE BY THE SURVEYOR.

7. PLAT SUBJECT TO RESTRICTIONS OF RECORD.

8. THERE ARE NO KNOWN CONTAMINATED AREAS, CONTAMINATED SOILS, OR ENVIRONMENTAL ISSUES ASSOCIATED WITH THIS SITE.

9. THE "GENERALIZED ALEXANDRIA SOILS MAP" GENERALLY IDENTIFIES THE SOILS FOR THE SITE AS SUSQUEHANNA LOAM.

10. THIS SITE DOES NOT CONTAIN PREVIOUSLY MAPPED MARINE CLAYS.

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. 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.

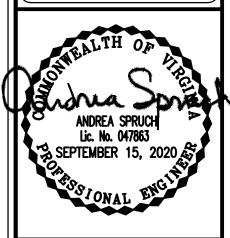
A SANITARY SEWER: ALL EXISTING SANITARY SEWER MAINS SHOWN ON THIS PLAN ARE OWNED AND MAINTAINED BY THE

• 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.

ENGINEERING • LAND SURVEYING • PLAN 700 S. Washington Street, Suite 220 www.rcfassoc



DEVELOPMENT PRELIMINARY PLANDEN AVANTI 550
#550 SOUTH PICKETT STREET

THIS DRAWING	G IS A SERVICE DO O OR REPRODUCED	CUMENT OF R.C. WITHOUT THE W	FIELDS & ASSOCIA VRITTEN PERMISSION	TES, INC. AND MA OF THE ENGINEE
AND/OR LANI				

EXISTING UTILITIES SHOWN ON THIS PLAN TAKEN FROM AVAILABLE RECORDS AND/OR FROM FIELD OBSERVATIONS. 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. INTERFERENCE OR DISRUPTION OF SAME WILL NOT BE THE RESPONSIBILITY OF THIS OFFICE.

ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AN SPECIFICATIONS OF THE CITY OF ALEXANDRIA. © 2020 R.C. FIELDS & ASSOCIATES, INC.

APPROVED SPECIAL USE PERMIT NO	
DEPARTMENT OF PLANNING & ZONING	
DIRECTOR	DATE
DEPARTMENT OF TRANSPORTATION & ENVIRON	
SITE PLAN NO	<u> </u>
DIRECTOR	DATE
CHAIRMAN, PLANNING COMMISSION	DATE
DATE RECORDED	
INSTRUMENT NO. DEED BOOK NO	D. DATE

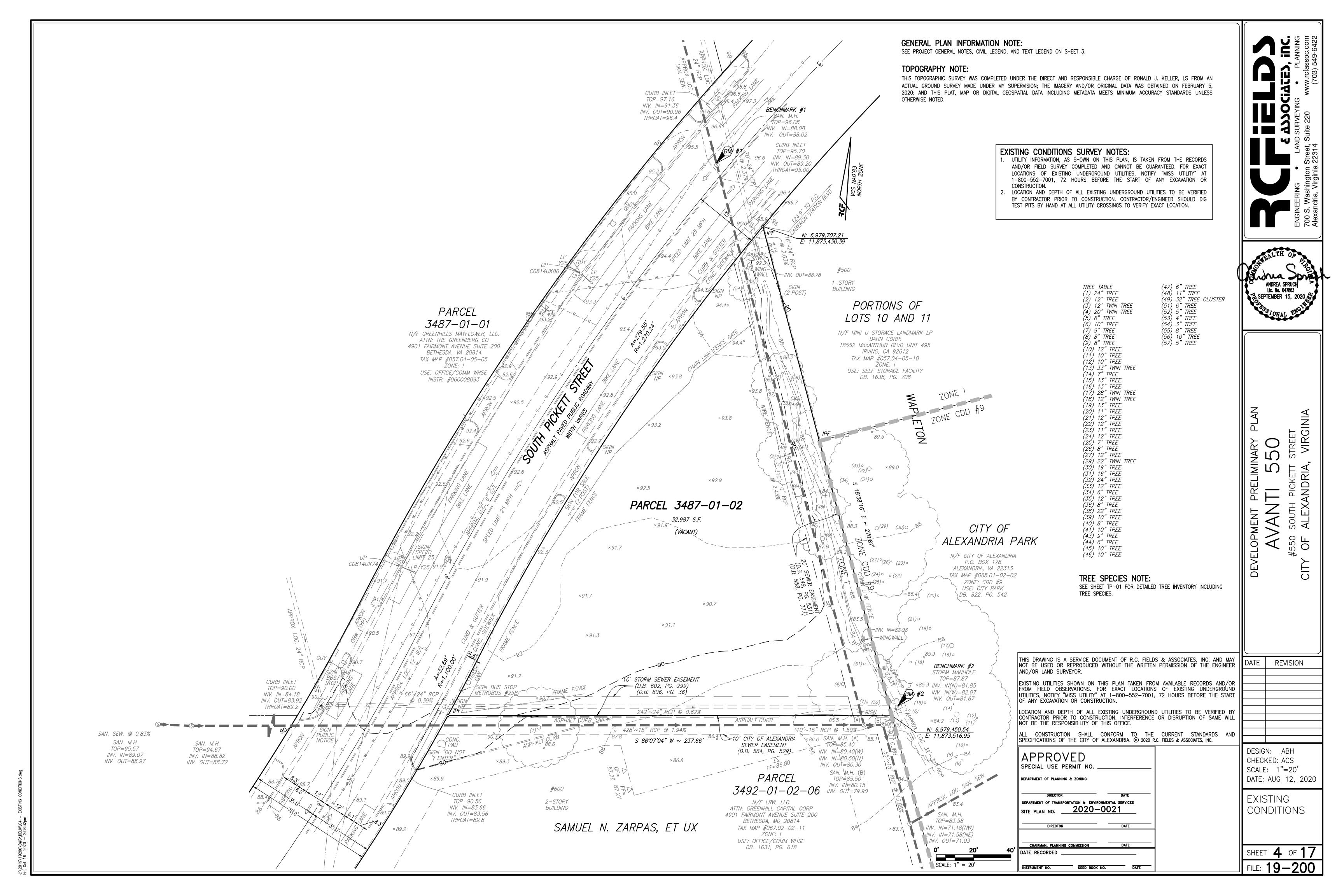
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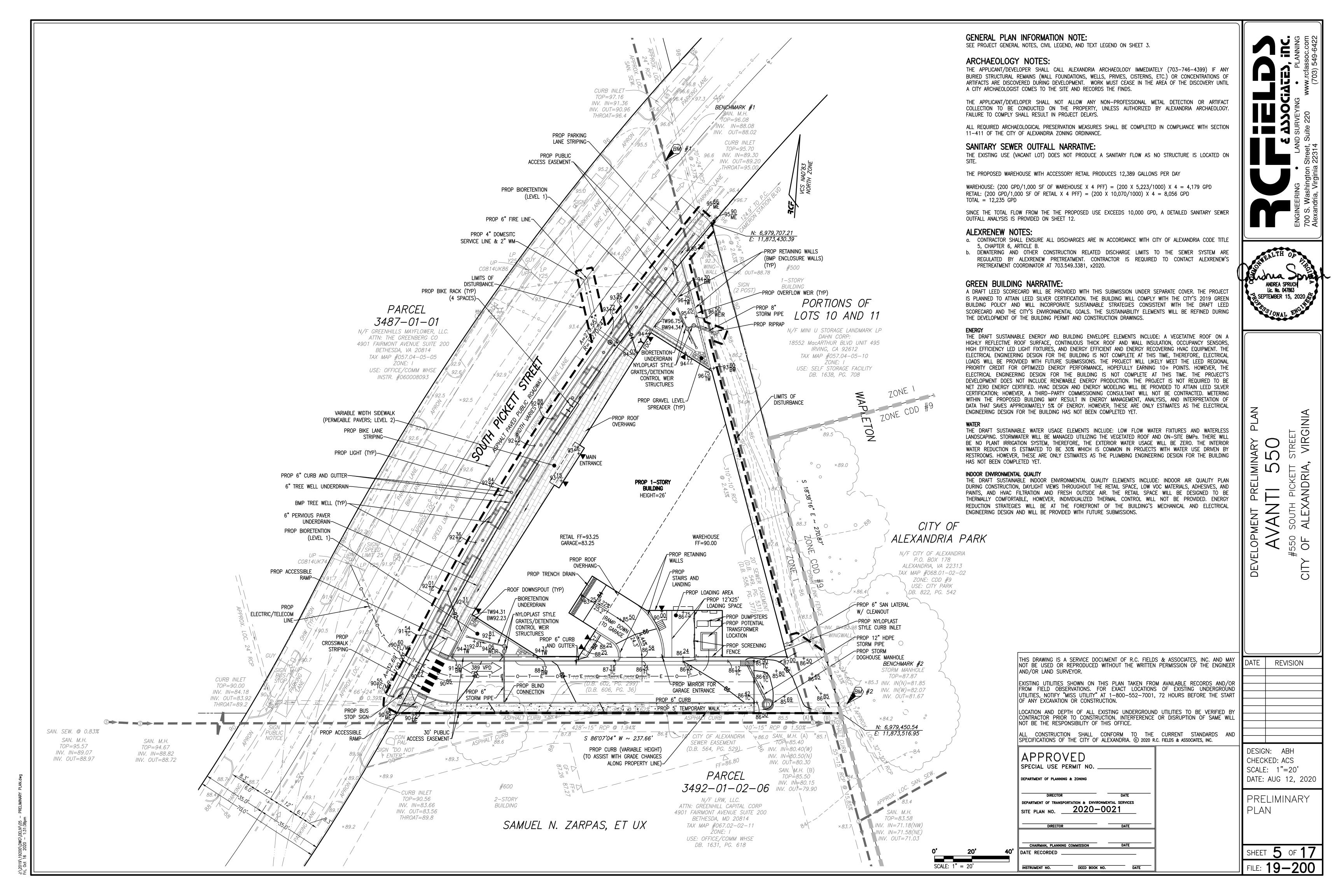
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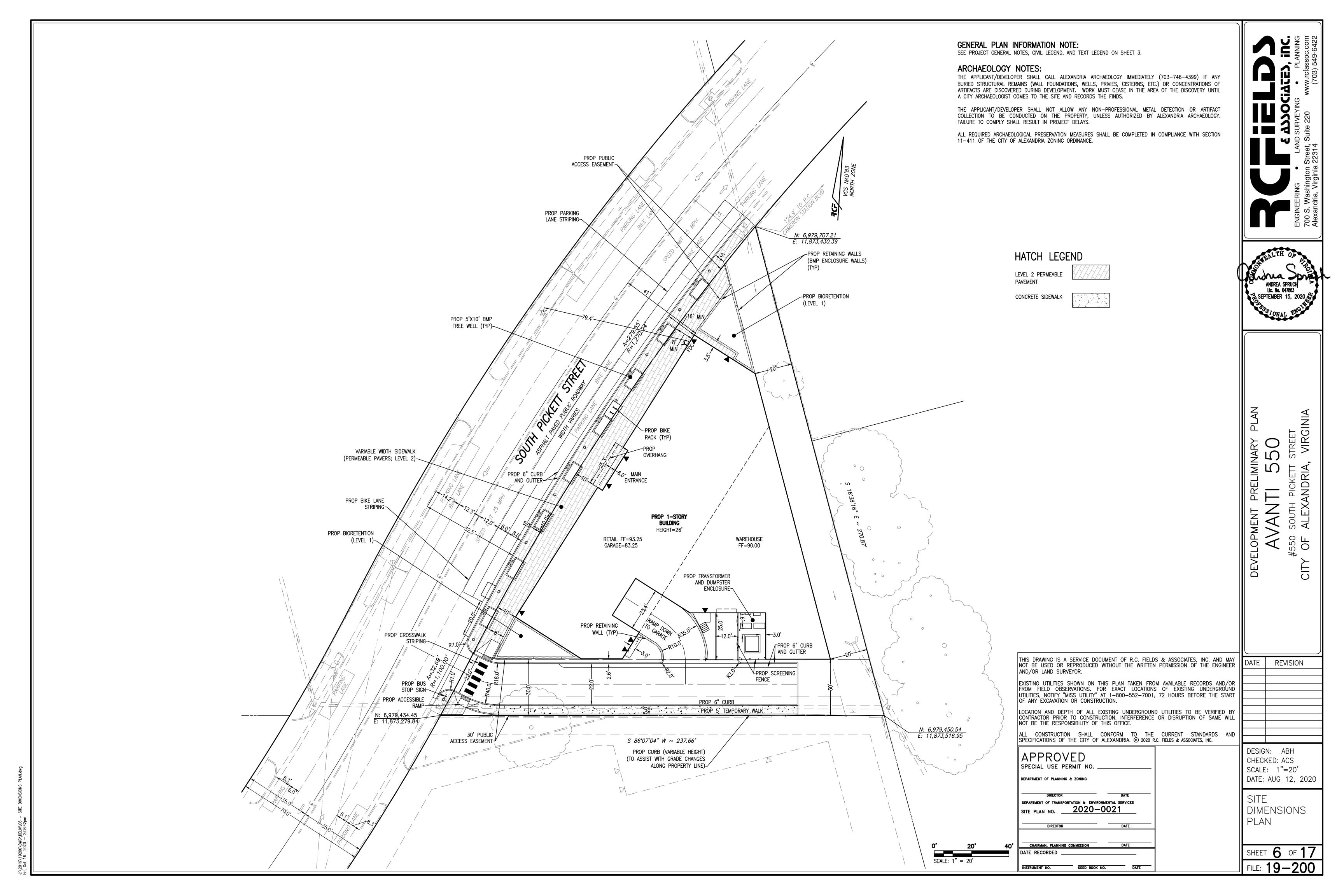
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SCALE: NO SCALE
DATE: AUG 12, 2020

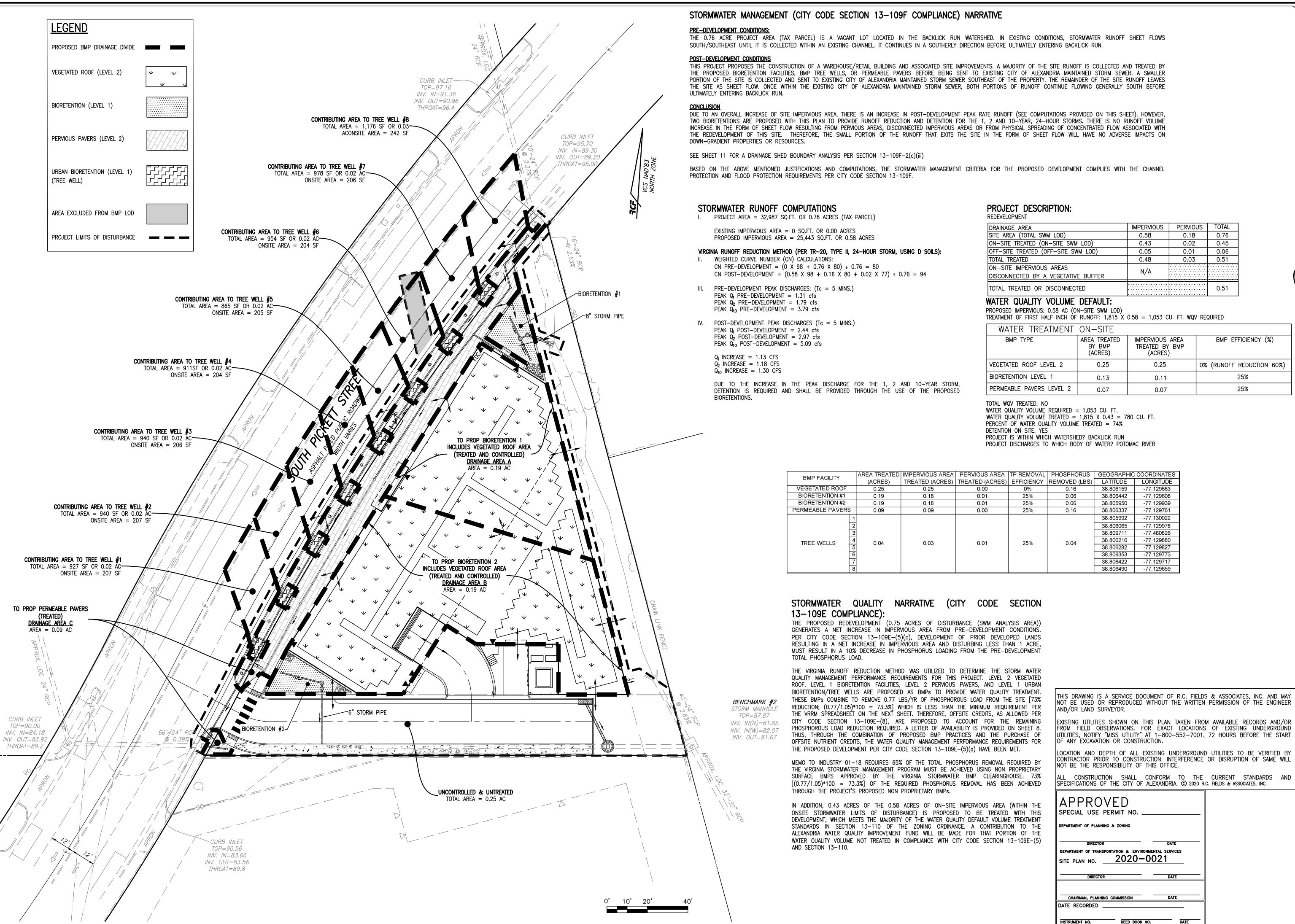
GENERAL PLAN INFORMATION AND NOTES

SHEET 3 OF 17
FILE: 19-200









ANDREA SPRUCH Lic. No. 047863 SEPTEMBER 15, 2020 &

0 55 Ol

REVISION

EXISTING UTILITIES SHOWN ON THIS PLAN TAKEN FROM AVAILABLE RECORDS AND/OR FROM FIELD OBSERVATIONS. FOR EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES, NOTIFY "MISS UTILITY" AT 1-800-552-7001, 72 HOURS BEFORE THE START

0.45

0.06

0.51

0.51

BMP EFFICIENCY (%)

25%

25%

LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. INTERFERENCE OR DISRUPTION OF SAME WILL

SPECIFICATIONS OF THE CITY OF ALEXANDRIA. © 2020 R.C. FIELDS & ASSOCIATES, INC.

DESIGN: ABH CHECKED: ACS SCALE: 1" = 20'DATE: AUG 12, 2020

STORMWATER MANAGEMENT

TREE WELL #1:

TREE WELL

4

6

THE REQUIRED SURFACE AREA PER 2011 DEQ BMP CLEARINGHOUSE APPENDIX 9-A: $SA = T_V/2 = (1.0(R_V)(A)/12)/2$

50.0

50.0

50.0

50.0

50.0

50.0

50.0 50.0

WHERE: $T_V = TREATMENT VOLUME (CF)$ $R_V = RUNOFF COEFFICIENT (0.95)$

A = TOTAL AREA TO BMP (SF)

TOTAL IMPERVIOUS AREA TO BMP = 927 SF

REQUIRED SURFACE AREA: $SA = (1.0(R_V)(A)/12)/2 = (1.0(0.95)(927)/12)/2 = 36.7 SF$

REQUIRED: 36.7 SF **PROVIDED:** 50.0 SF (REQUIREMENT MET)

TREE WELL #2:

THE REQUIRED SURFACE AREA PER 2011 DEQ BMP CLEARINGHOUSE APPENDIX 9-A: $SA = T_V/2 = (1.0(R_V)(A)/12)/2$

WHERE: $T_V = TREATMENT VOLUME (CF)$

 $R_V = RUNOFF COEFFICIENT (0.95)$

A = TOTAL AREA TO BMP (SF)TOTAL IMPERVIOUS AREA TO BMP = 940 SF

REQUIRED SURFACE AREA: $SA = (1.0(R_V)(A)/12)/2 = (1.0(0.95)(940)/12)/2 = 37.2 SF$

REQUIRED: 37.2 SF **PROVIDED:** 50.0 SF (REQUIREMENT MET)

TREE WELL #3:

THE REQUIRED SURFACE AREA PER 2011 DEQ BMP CLEARINGHOUSE APPENDIX 9-A:

 $SA = T_V/2 = (1.0(R_V)(A)/12)/2$

WHERE: $T_V = TREATMENT VOLUME (CF)$

 $R_V = RUNOFF COEFFICIENT (0.95)$

A = TOTAL AREA TO BMP (SF)

TOTAL IMPERVIOUS AREA TO BMP = 940 SQ.FT.

REQUIRED SURFACE AREA:

 $SA = (1.0(R_V)(A)/12)/2 = (1.0(0.95)(940)/12)/2 = 37.2 SF$

REQUIRED: 37.2 SF **PROVIDED:** 50.0 SF (REQUIREMENT MET)

TREE WELL #4:

SOILS MEDIA DEPTH

48"

48"

48"

92.9 88.0 94.0

93.4 93.9

THE REQUIRED SURFACE AREA PER 2011 DEQ BMP CLEARINGHOUSE APPENDIX 9-A:

LATITUDE

38.805992

38.806065

38.809711

38.806210

38.806282

38.806353

38.806422

38.806490

LONGITUDE

-77.130022

-77.129978

-77.480826

-77.129880

-77.129827 -77.129773

-77.129717

-77.129659

 $SA = T_V/2 = (1.0(R_V)(A)/12)/2$ $T_V = TREATMENT VOLUME (CF)$

 $R_V = RUNOFF COEFFICIENT (0.95)$

A = TOTAL AREA TO BMP (SF)

TOTAL IMPERVIOUS AREA TO BMP = 911 SQ.FT.

REQUIRED SURFACE AREA:

 $SA = (1.0(R_V)(A)/12)/2 = (1.0(0.95)(911)/12)/2 = 36.1 SF$

REQUIRED: 36.1 SF **PROVIDED:** 50.0 SF (REQUIREMENT MET)

TREE WELL #5:

THE REQUIRED SURFACE AREA PER 2011 DEQ BMP CLEARINGHOUSE APPENDIX 9-A:

 $SA = T_V/2 = (1.0(R_V)(A)/12)/2$ WHERE:

 $T_V = TREATMENT VOLUME (CF)$ $R_V = RUNOFF COEFFICIENT (0.95)$ A = TOTAL AREA TO BMP (SF)

TOTAL IMPERVIOUS AREA TO BMP = 865 SF REQUIRED SURFACE AREA: $SA = (1.0(R_V)(A)/12)/2 = (1.0(0.95)(865)/12)/2 = 34.2 SF$

REQUIRED: 34.2 SF

PROVIDED: 50.0 SF (REQUIREMENT MET)

TREE WELL #6:

THE REQUIRED SURFACE AREA PER 2011 DEQ BMP CLEARINGHOUSE APPENDIX 9-A:

 $SA = T_V/2 = (1.0(R_V)(A)/12)/2$

WHERE: T_{V} = TREATMENT VOLUME (CF)

 $R_V = RUNOFF COEFFICIENT (0.95)$ A = TOTAL AREA TO BMP (SF)

TOTAL IMPERVIOUS AREA TO BMP = 954 SF

REQUIRED SURFACE AREA:

 $SA = (1.0(R_V)(A)/12)/2 = (1.0(0.95)(954)/12)/2 = 37.8 SF$

REQUIRED: 37.8 SF **PROVIDED:** 50.0 SF (REQUIREMENT MET)

NUTRIENT CREDIT AVAILABILITY LETTER:



August 11, 2020

Nathan Ribyat

Project Designer RC Fields & Associates

Caitlan Parker Credit Sales Coordinator

Resource Environmental Solutions

Project Reference: 550 South Pickett Street, 0.28 Credits Requested; HUC 02070010

Potomac Watershed – Nutrient Credit Availability

This letter is to confirm the availability of 0.28 authorized nutrient credits ("Nutrient Credits") from one or more of Resource Environmental Solutions' ("RES") Potomac nutrient bank facilities for use by permit applicants within the Potomac watershed, including HUC 02070010, to compensate for nutrient loadings in excess of state or local regulations, as per Virginia Code § 62.1-44.15:35 and § 62.1-44.19:14 and Virginia Administrative Code 9 VAC 25-820-10 et seq. These Nutrient Credits are generated and managed under the terms of the Banking Instruments known as the Coles Point Nutrient Reduction Implementation Plan ("NRIP").

Please feel free to contact me if you have any questions.

Sincerely,

THE REQUIRED SURFACE AREA PER 2011 DEQ BMP CLEARINGHOUSE

 $SA = (1.0(R_V)(A)/12)/2 = (1.0(0.95)(978)/12)/2 = 38.7 SF$

THE REQUIRED SURFACE AREA PER 2011 DEQ BMP CLEARINGHOUSE

 $SA = (1.0(R_V)(A)/12)/2 = (1.0(0.95)(1,176)/12)/2 = 46.6 SF$

TREE WELL #7:

 $SA = T_V/2 = (1.0(R_V)(A)/12)/2$

 $T_V = TREATMENT VOLUME (CF)$

A = TOTAL AREA TO BMP (SF)

REQUIRED SURFACE AREA:

REQUIRED: 38.7 SF

TREE WELL #8:

 $SA = T_V/2 = (1.0(R_V)(A)/12)/2$

 $T_V = TREATMENT VOLUME (CF)$

A = TOTAL AREA TO BMP (SF)

REQUIRED SURFACE AREA:

REQUIRED: 46.6 SF

 $R_V = RUNOFF COEFFICIENT (0.95)$

TOTAL IMPERVIOUS AREA TO BMP = 1,176 SF

PROVIDED: 50.0 SF (REQUIREMENT MET)

APPENDIX 9-A:

 $R_V = RUNOFF COEFFICIENT (0.95)$

TOTAL IMPERVIOUS AREA TO BMP = 978 SF

PROVIDED: 50.0 SF (REQUIREMENT MET)

APPENDIX 9-A:

Caitlan B. Parker Resource Environmental Solutions cparker@res.us

10055 Red Run Blvd. Suite 130 Owings Mills, MD

Suite 300 Baton Rouge, LA 70802 701 E. Bay St.

412 N. 4th St.

Suite 306

77006

Charleston, SC

5020 Montrose Blvd Suite 650 Houston, TX

1200 Camellia Blvd. Lafayette, LA

1371/2 East Main St. Suite 210 Oak Hill, WV

Suite 431 Pittsburgh, PA 302 Jefferson St. Suite 110

33 Terminal Way

Raleigh, NC 1408 B Roseneath Rd. Richmond, VA

WATER QUALITY VOLUME REQUIRED: Permeable Paver Section 0.95 4189.0 A_c (SF) $T_{V} = TREATMENT VOLUME (FT^{3})$ $R_V = COMPOSITE RUNOFF COEFFICIENT$ 4189.0 A_n (SF) A_C = AREA TO FACILITY (SF) T_v (FT3) 729.6 d_c (FT) 0.174 **DEPTH OF RESERVOIR LAYER:** 1.00 0.09 i (FT/DAY) 0.5 2.0 d (DAY) 0.4 0.44 1.25 d_{p-max} (FT) Provided (FT) 0.67

PERMEABLE PAVER WATER QUALITY VOLUME CALCULATIONS:

 $A_P = AREA OF PERMEABLE PAVEMENT$ d_{p} = DEPTH OF RESERVOIR LAYER (FT) P = RAINFALL DEPTH (0.09 FT)

i = INFILTRATION RATE (ASSUME 0.5 FT/DAY) t_d = TIME TO DRAIN THE RESERVOIR LAYER (2 DAYS) $V_r = VOID RATIO OF THE RESERVOIR LAYER (0.4)$

TYPICAL PERVIOUS PAVEMENT DETAIL

2" AASHTO #8 OPEN-GRADED-

BEDDING COURSE STONE

NON-WOVEN-

GEOTEXTILE

AASHTO #57 STONE

 $\binom{1}{2}$ TO $1\frac{1}{2}$ IN SIZE), NO FINES

PERVIOUS PAVEMENT,

PROVIDED

PERFORATED 4

HDPE UNDERDRAIN

INFILTRATION

 $T_V = 1.1(R_V)(A)/12$

 $d_p = \{P*(A_p*Rv+A_c)\}$

 $d_{p-max} = (i/2)(t_d)$

OR APPROVED EQUAL -

VEGETATED ROOF WATER QUALITY VOLUME CALCULATIONS:

THE WATER QUALITY VOLUME PROVIDED IS CALCULATED AS FOLLOWS: V=(SA*D*P)/12WHERE:

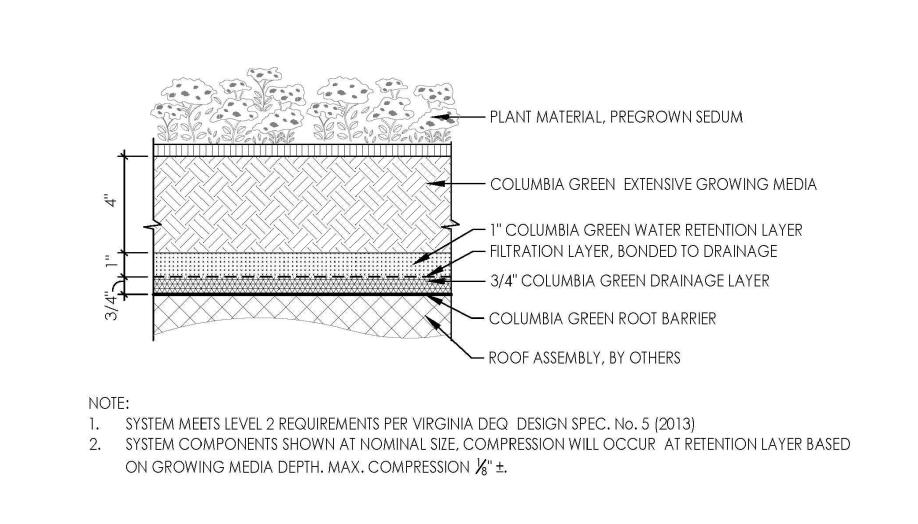
V =VOLUME SA =VEGETATED ROOF AREA D =MEDIA DEPTH (4") P = MEDIA POROSITY (0.3)

TOTAL IMPERVIOUS AREA TO BMP = 10,980 SQ.FT.

REQUIRED WATER QUALITY VOLUME (FIRST INCH OF RUNOFF): $T_V=1.1(R_V)(A)/12 = 1.1(.95)(10,980)/12 = 956.2 \text{ CU.FT.}$

WATER QUALITY VOLUME PROVIDED: V = (SA*D*P)/12V = (10.980*4*0.3)/12 = 1.098 CU.FT.

REQUIRED: 956.2 CU.FT. **PROVIDED:** 1,098 CU.FT. (REQUIREMENT MET)



4" DEPTH EXTENSIVE LAYERED GREEN ROOF LGR1.01b LAYERED SYSTEM DETAIL SCALE: 3"=1'-0"

COLUMBIA

GREEN

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- 6" OBSERVATION WELL WITH BRASS CAP

& BASEPLATE (PERFORATED HDPE PIPE)

— PLASTIC EDGE RESTRAINT

(OR APPROVED EQUAL)

OBSERVATION WELL TO EXTEND

TO BOTTOM OF STONE STORAGE

LAYER

UNCOMPACTED

SUBGRADE

EXISTING UTILITIES SHOWN ON THIS PLAN TAKEN FROM AVAILABLE RECORDS AND/OR FROM FIELD OBSERVATIONS. 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. INTERFERENCE OR DISRUPTION OF SAME WILL NOT BE THE RESPONSIBILITY OF THIS OFFICE.

ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF ALEXANDRIA. © 2020 R.C. FIELDS & ASSOCIATES, INC.

APPROVED SPECIAL USE PERMIT NO. _ DEPARTMENT OF PLANNING & ZONIN SITE PLAN NO. 2020-0021 DIRECTOR DATE CHAIRMAN, PLANNING COMMISSION

DEED BOOK NO.

DATE RECORDED

INSTRUMENT NO.

DESIGN: ABH CHECKED: ACS SCALE: AS NOTED DATE: AUG 12, 2020

DATE REVISION

SEPTEMBER 15. 2020

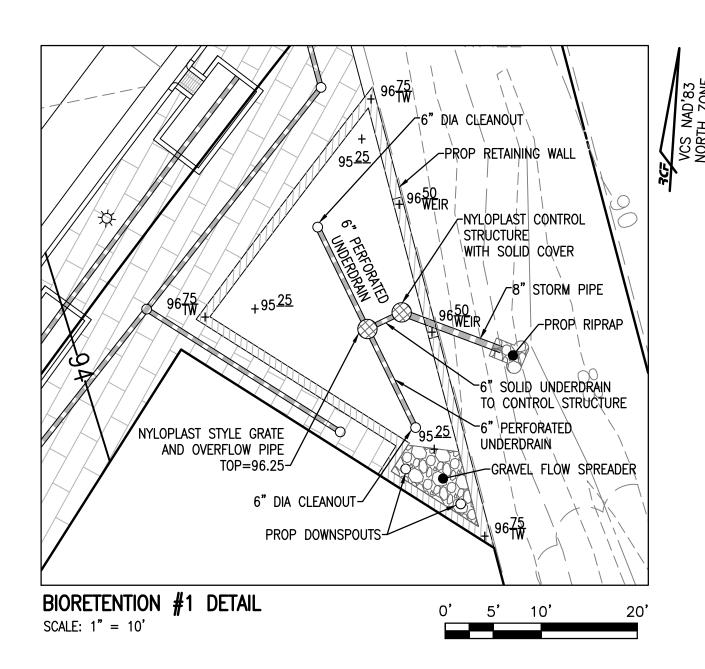
PRELIM

OPMENT

550 **0F**

STORMWATER MANAGEMENT

SHEET **8** OF **17**



WATER QUALITY CALCULATIONS:

THE BIORETENTION TREATMENT VOLUME IS CALCULATED AS FOLLOWS: Tv = [(1.0"*Ap*Rv))/12

THE MINIMUM BMP SURFACE AREA REQUIRED IS CALCULATED AS FOLLOWS: SA=Tv/Sd

Tv = TREATMENT VOLUME Rv = RUNOFF COEFFICIENT FOR DRAINAGE AREA Sd = STORAGE DEPTH OF BIORETENTION

Dp = PONDING DEPTH (1.0')Dfm = DEPTH OF FILTER MEDIA (2')

Nfm = VOID RATIO OF FILTER MEDIA (0.25)Dq = DEPTH OF GRAVEL BED (2.75')Na = VOID RATIO OF GRAVEL BED (0.40)

TOTAL ON-SITE DRAINAGE AREA TO BMP= 0.19 AC IMPERVIOUS ON-SITE AREA TO BMP= 0.18 AC PERVIOUS ON-SITE AREA TO BMP= 0.01 AC Rv = [(0.95*0.18) + (0.25*0.01)]/0.19 = 0.91REQUIRED BIORÉTENTION TRÉATMENT VOLUME: Tv = [(1.0"*8,254*0.91)/12]

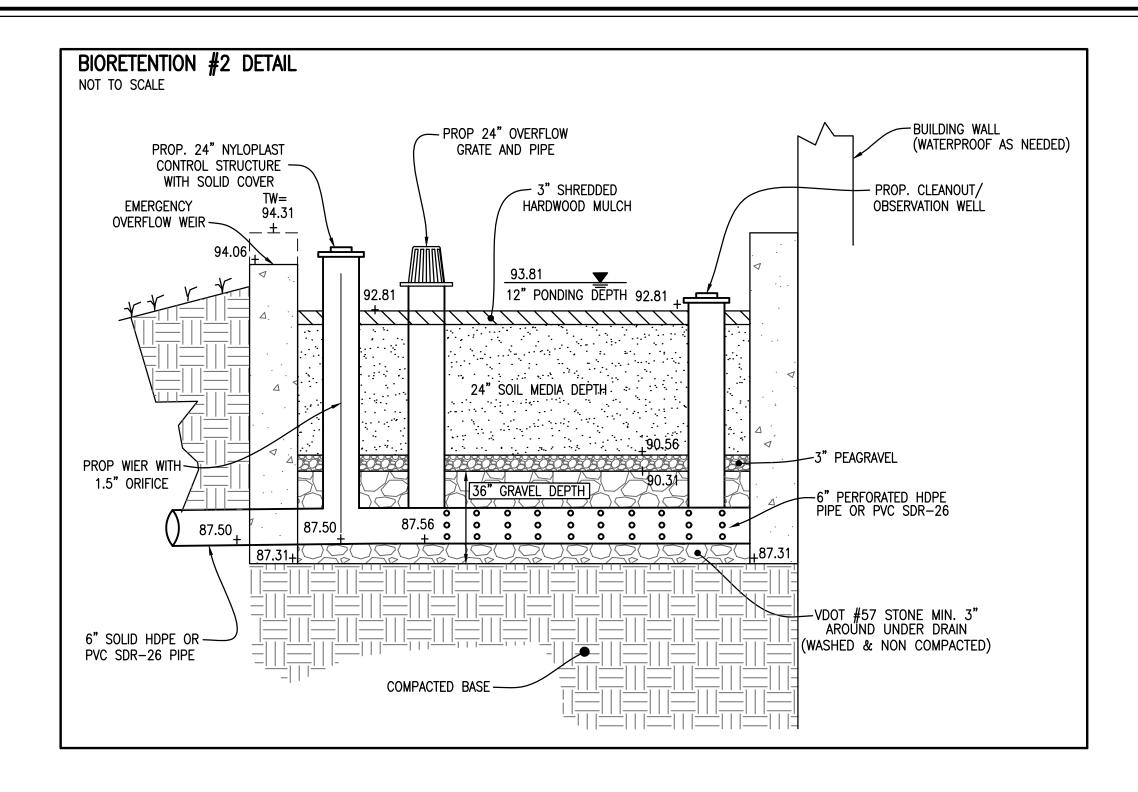
BIORETENTION STORAGE DEPTH: Sd=1.0+(2*0.25)+(2.75*0.4)Sd=2.6'

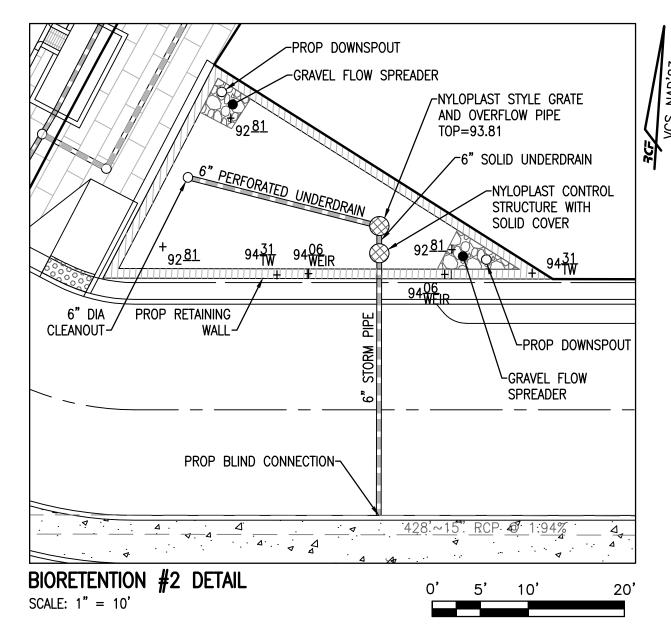
Tv=626 CF

SĂ = SURFACE AREA

MINIMUM BMP SURFACE AREA REQUIRED: SA=626/2.6' SA=240 SF

REQUIRED SURFACE AREA: 240 SF **PROVIDED SURFACE AREA:** 461 SF





WATER QUALITY CALCULATIONS:

THE BIORETENTION TREATMENT VOLUME IS CALCULATED AS FOLLOWS: Tv = [(1.0"*Ap*Rv))/12

THE MINIMUM BMP SURFACE AREA REQUIRED IS CALCULATED AS FOLLOWS: SA=Tv/Sd

Tv = TREATMENT VOLUME Rv = RUNOFF COEFFICIENT FOR DRAINAGE AREA Sd = STORAGE DEPTH OF BIORETENTION

Dp = PONDING DEPTH (1.0')

Dfm = DEPTH OF FILTER MEDIA (2') Nfm = VOID RATIO OF FILTER MEDIA (0.25)

Dq = DEPTH OF GRAVEL BED (3.0')Ng = VOID RATIO OF GRAVEL BED (0.40)

SĂ = SURFACE AREA

TOTAL ON-SITE DRAINAGE AREA TO BMP= 0.19 AC IMPERVIOUS ON-SITE AREA TO BMP= 0.18 AC PERVIOUS ON-SITE AREA TO BMP= 0.01 AC Rv = [(0.95*0.18) + (0.25*0.01)]/0.19 = 0.91REQUIRED BIORÉTENTION TRÉATMENT VOLUME: Tv = [(1.0"*8,254*0.91)/12]Tv=626 CF

BIORETENTION STORAGE DEPTH: Sd=1.0+(2*0.25)+(3.0*0.4)Sd=2.7'

MINIMUM BMP SURFACE AREA REQUIRED: SA=626/2.7SA=232 SF

REQUIRED SURFACE AREA: 232 SF PROVIDED SURFACE AREA: 413 SF

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LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. INTERFERENCE OR DISRUPTION OF SAME WILL NOT BE THE RESPONSIBILITY OF THIS OFFICE.

ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF ALEXANDRIA. © 2020 R.C. FIELDS & ASSOCIATES, INC.

APPROVE SPECIAL USE PERM		
DEPARTMENT OF PLANNING &	ZONING	
DIRECTOR		DATE
DEPARTMENT OF TRANSPORTAT		
SITE PLAN NO.	<u> 2020–00</u>	21
DIRECTOR		DATE
CHAIRMAN, PLANNING COM	AMISSION	DATE
DATE RECORDED		
INSTRUMENT NO.	DEED BOOK NO.	DATE

DATE REVISION

550 **OF**

#

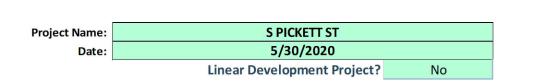
OPMENT

ANDREA SPRUCH Lic. No. 047863 SEPTEMBER 15, 2020 🗟

DESIGN: ABH CHECKED: ACS SCALE: AS NOTED DATE: AUG 12, 2020

STORMWATER MANAGEMENT

SHEET **9** OF **17** FILE: 19-200



Site Information

Post-Development Project (Treatment Volume and Loads)

Enter Total Disturbed Area (acres) ->	0.75
Maximum reduction required:	10%
The site's net increase in impervious cover (acres) is:	0.59
Post-Development TP Load Reduction for Site (lb/yr):	1.05

e-ReDevelopment Land Cover	(acres)	

	A Soils	B Soils	C Soils	D Soils	Totals
Forest/Open Space (acres) undisturbed					0.00
forest/open space					0.00
Managed Turf (acres) disturbed, graded					0.68
for yards or other turf to be				0.68	0.00
Impervious Cover (acres)				0.07	0.07
					0.75

Post-Development Land Cover (acres)

	A Soils	B Soils	C Soils	D Soils	Totals
Forest/Open Space (acres) undisturbed,					0.02
protected forest/open space or reforested				0.02	0.02
Managed Turf (acres) disturbed, graded					0.07
for yards or other turf to be				0.07	0.07
Impervious Cover (acres)				0.66	0.66
Area Check	OK.	OK.	OK.	OK.	0.75

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
Imponious Cover	0.05	0.05	0.05	0.05

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)	0.68	0.09	
Weighted Rv(turf)	0.25	0.25	
% Managed Turf	91%	56%	
Impervious Cover (acres)	0.07	0.07	
Rv(impervious)	0.95	0.95	
% Impervious	9%	44%	
Total Site Area (acres)	0.75	0.16	
Site Rv	0.32	0.56	

Land Cover Summary-Post (Final) Post ReDev. & New Impervious		Land Cover Sum	Land Cover Summary-Post Post-Re Development		Land Cover Summary-Post Post-Development New Imperviou	
		Post-Re Devel				
Forest/Open Space Cover (acres)	0.02	Forest/Open Space Cover (acres)	0.02			
Weighted Rv(forest)	0.05	Weighted Rv(forest)	0.05			
% Forest	3%	% Forest	13%			
Managed Turf Cover (acres)	0.07	Managed Turf Cover (acres)	0.07			
Weighted Rv (turf)	0.25	Weighted Rv (turf)	0.25			
% Managed Turf	9%	% Managed Turf	44%			
Impervious Cover (acres)	0.66	ReDev. Impervious Cover (acres)	0.07	New Impervious Cover (acres)	0.59	
Rv(impervious)	0.95	Rv(impervious)	0.95	Rv(impervious)	0.95	
% Impervious	88%	% Impervious	44%			
Final Site Area (acres)	0.75	Total ReDev. Site Area (acres)	0.16			
Final Post Dev Site Rv	0.86	Re Dev Site Rv	0.53			

LAND COVER SUMMARY -- POST DEVELOPMENT

Treatment Volume and Nutrient Load

Pre-ReDevelopment Treatment Volume (acre-ft)	0.0197	0.0074
Pre-ReDevelopment Treatment Volume (cubic feet)	858	323
Pre-ReDevelopment TP Load	0.54	0.20
(lb/yr)		
Pre-ReDevelopment TP Load per acre (Ib/acre/yr)	0.72	1.27

Final Post- Development Treatment Volume (cubic feet)	2,343	Post-ReDevelop Treatment Volu (cubic feet)
Final Post- Development TP Load (lb/yr)	1.47	Post-ReDevelop Load (TP) (lb/yr)*
Final Post-Development TP Load per acre (lb/acre/yr)	1.96	Post-ReDevelopme Load per acre (lb/acre/yr)

0.0538

Post-ReDevelopment Treatment Volume (cubic feet)	309	
Post-ReDevelopment Load (TP) (lb/yr)*	0.19	
Post-ReDevelopment TP Load per acre (lb/acre/yr)	1.21	

Treatment Volume and Nutrient Load

Post-Development

Treatment Volume

(acre-ft)

Post-Development

(cubic feet)

Post-Development TP Load (lb/yr)

TP Load Reduction

Required for New

Impervious Area

0.0467

2,035

Post-ReDevelopment

(acre-ft)

Treatment Volume

Max. Reduction Required (Below Pre- ReDevelopment Load)	10%	

C Load Reduction Required for edeveloped Area (lb/yr)

¹Adjusted Land Cover Summary: Pre ReDevelopment land cover minus pervious land cover (forest/open space or managed turf) acreage proposed for new impervious cover.

Adjusted total acreage is consistent with Post-ReDevelopment acreage (minus acreage of new impervious cover).

Column I shows load reduction requriement for new impervious cover (based on new development load limit, 0.41 lbs/acre/year).

Post-Development Requirement for Site Area		
TP Load Reduction Required (lb/yr)	1.05	

Nitrogen Loads (Informational Purposes Only)

Final Post-

Development

Treatment Volum

Pre-Re Development TN Load (lb/yr)	3.86
---------------------------------------	------

Final Post-Development TN Load	
(Post-ReDevelopment & New	10.53
Impervious) (lb/yr)	

Drainage Area A

. Vegetated Roof (RR)

6. Bioretention (RR)

1.a. Vegetated Roof #1 (Spec #5)

1.b. Vegetated Roof #2 (Spec #5)

6.a. Bioretention #1 or Micro-Bioretention #1

or Urban Bioretention (Spec #9)

rainage Area A Land Cover (acres)						
	A Soils	B Soils	C Soils	D Soils	Totals	Land Cover Rv
Forest/Open Space (acres)				0.01	0.01	0.05
Managed Turf (acres)					0.00	0.00
Impervious Cover (acres)				0.18	0.18	0.95
				Total	0.19	

0.95		(lb/yr)	0.39						
	Post Development Treatment Volume in D.A. A (ft ³)								
0	0		0.00	0.00	0.00				
438	0		0.27	0.16	0.11	6.a.	Bioretention #1		

0.11

0.00

0.11

0.07

0.12

CLEAR BMP AREAS

0.12

CLEAR BMP AREAS

0.04

otal Phosphorus Available for Removal in D.A. B (lb/yr) 0.39

0.10

0.03

CLEAR BMP AREAS

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)				0.01	0.01	0.05
Managed Turf (acres)					0.00	0.00
Impervious Cover (acres)				0.18	0.18	0.95
				Total	0.19	

0.13

263

			_	Total	0.19		Post Development Treatment Volume in D.A. B (ft ³) 617					
getated Roof (RR)												
1.a. Vegetated Roof #1 (Spec #5)	45			0	0	0	0		0.00	0.00	0.00	
1.b. Vegetated Roof #2 (Spec #5)	60	0.13		263	175	438	0		0.27	0.16	0.11	6.a. Bioretention #1
oretention (RR)												

Drainage Area C

Drainage Area A Land Cover (acres)

6.a. Bioretention #1 or Micro-Bioretention #1

or Urban Bioretention (Spec #9)

6.a. Bioretention #1 or Micro-Bioretention #1

or Urban Bioretention (Spec #9)

	A Soils	B Soils	C Soils	D Soils	Totals	Land Cover Rv
Forest/Open Space (acres)					0.00	0.00
Managed Turf (acres)				0.01	0.01	0.25
Impervious Cover (acres)				0.12	0.12	0.95
				Total	0.13	

0.01

Total Phosphorus Available for Removal in D.A. C (lb/yr)	0.27
Post Development Treatment Volume in D.A. C (ft ³)	423

3. Permeable Pavement (RR)												
3.a. Permeable Pavement #1 (Spec #7)	45		0	0	0	0	25	0.00	0.00	0.00	0.00	
3.b. Permeable Pavement #2 (Spec #7)	75	0.0	9	233	78	310	25		0.19	0.16	0.04	
5. Bioretention (RR)												

113

Site Results (Water Quality Compliance)

175

Area Checks	D.A. A	D.A. B	D.A. C	D.A. D	D.A. E	AREA CHECK
FOREST/OPEN SPACE (ac)	0.01	0.01	0.00	0.00	0.00	OK.
IMPERVIOUS COVER (ac)	0.18	0.18	0.12	0.00	0.00	OK.
IMPERVIOUS COVER TREATED (ac)	0.18	0.18	0.12	0.00	0.00	OK.
MANAGED TURF AREA (ac)	0.00	0.00	0.01	0.00	0.00	OK.
MANAGED TURF AREA TREATED (ac)	0.00	0.00	0.01	0.00	0.00	OK.
AREA CHECK	OK.	OK.	OK.	OK.	OK.	

Site Treatment Volume (ft³)

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 (ft ³)	402	402	278	0	0	1,081
TP LOAD AVAILABLE FOR REMOVAL (lb/yr)	0.39	0.39	0.27	0.00	0.00	1.04
TP LOAD REDUCTION ACHIEVED (lb/yr)	0.28	0.28	0.20	0.00	0.00	0.77
TP LOAD REMAINING (lb/yr)	0.10	0.10	0.07	0.00	0.00	0.27

2.18

1.46

0.00

0.00

Total Phosphorus

10141111056110105	
FINAL POST-DEVELOPMENT TP LOAD (lb/yr)	1.47
TP LOAD REDUCTION REQUIRED (lb/yr)	
TP LOAD REDUCTION ACHIEVED (lb/yr)	0.77
TP LOAD REMAINING (lb/yr):	0.71
REMAINING TP LOAD REDUCTION REQUIRED (lb/yr):	0.28

Total Nitrogen (For Information Purposes)

NITROGEN LOAD REDUCTION ACHIEVED (lb/yr)

POST-DEVELOPMENT LOAD (lb/yr)	10.53
NITROGEN LOAD REDUCTION ACHIEVED (lb/yr)	
MAINING POST-DEVELOPMENT NITROGEN LOAD (lb/yr)	4.72

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APPROVED SPECIAL USE PERMIT NO	
DEPARTMENT OF PLANNING & ZONING	
DIRECTOR	DATE
DEPARTMENT OF TRANSPORTATION & ENVIRONMENT SITE PLAN NO	
DIRECTOR	DATE
CHAIRMAN, PLANNING COMMISSION DATE RECORDED	DATE
INSTRUMENT NO. DEED BOOK NO	DATE

INSTRUMENT NO.

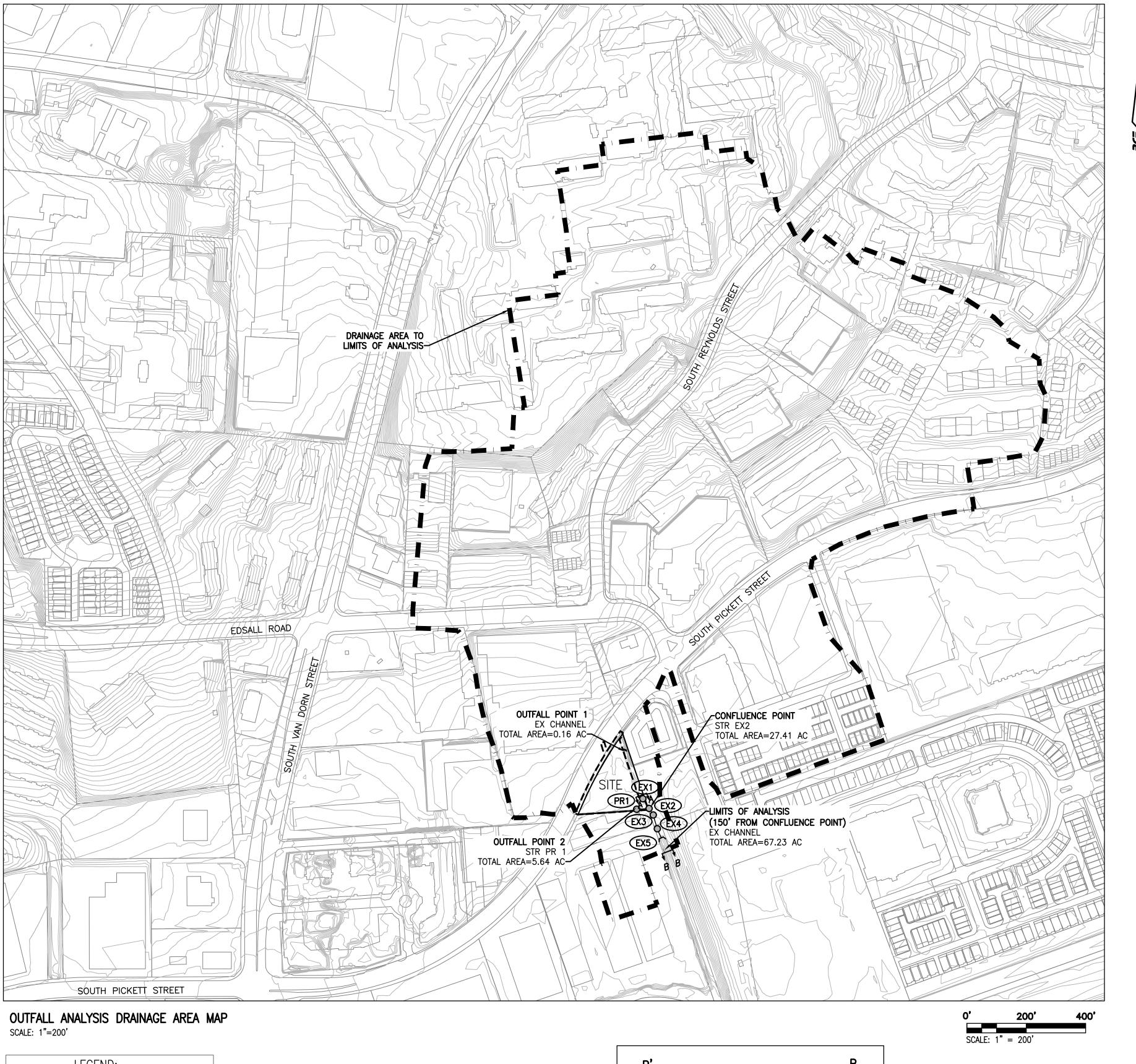
DESIG	N:	ABH	
CHECK	KED:	ACS	
SCALE	: AS	S NO	TED
DATE:	AUG	12,	202

DATE REVISION

SEPTEMBER 15, 2020

OPMENT

STORMWATER QUALITY COMPUTATIONS



STORMWATER OUTFALL NARRATIVE (CITY CODE SECTION 13-109F):

PRE-DEVELOPMENT CONDITIONS:

THE 0.76 ACRE SITE LIMITS ARE LOCATED IN THE BACKLICK RUN WATERSHED. IN EXISTING CONDITIONS, THE SITE IS CURRENTLY VACANT, CONSISTING PRIMARILY OF GRASS COVER WITH A DRAINAGE CHANNEL RUNNING ALONG THE EASTERN PROPERTY LINE. THIS PROJECT HAS TWO EXISTING CONDITION OUTFALL POINTS.

OUTFALL #1: A PORTION OF THE PROJECT SITE RUNOFF FLOWS AS NON-CONCENTRATED FLOW (OUTFALL #1) BEFORE ENTERING THE EXISTING DRAINAGE CHANNEL RUNNING ALONG THE EASTERN PROPERTY LINE OF THE SUBJECT SITE. FROM THERE, THE STORMWATER RUNOFF FLOWS IN A GENERALLY SOUTHERLY DIRECTION BEFORE IT ENTERS A CITY OF ALEXANDRIA MAINTAINED STORM SEWER SYSTEM (EX1) WHERE IT FLOWS IN A GENERALLY SOUTHERLY DIRECTION BEFORE DISCHARGING INTO AN EXISTING DRAINAGE CHANNEL SOUTH OF THE SUBJECT PROPERTY. FROM THERE, THE STORMWATER RUNOFF FLOWS IN A GENERALLY SOUTHEASTERLY DIRECTION BEFORE IT ULTIMATELY ENTERS BACKLICK RUN.

OUTFALL #2: THE REMAINDER OF THE PROJECT SITE DRAINS VIA NON-CONCENTRATED FLOW (OUTFALL #2) IN A SOUTHWESTERLY DIRECTION TOWARDS THE SOUTH PICKETT STREET RIGHT-OF-WAY BEFORE ENTERING A CITY OF ALEXANDRIA MAINTAINED STORM PIPE SYSTEM ON THE SOUTH SIDE OF THE SUBJECT PROPERTY. THE SUBJECT STORMWATER RUNOFF IS THEN PIPED IN AN EASTERLY DIRECTION WHERE IT CONVERGES WITH THE REST OF THE SITE'S RUNOFF AT STRUCTURE EX2. FROM THIS POINT, THE RUNOFF IS PIPED IN A GENERALLY SOUTHEASTERLY DIRECTION BEFORE DISCHARGING INTO AN EXISTING DRAINAGE CHANNEL SOUTH OF THE SUBJECT PROPERTY. FROM THERE, THE STORMWATER RUNOFF FLOWS IN A GENERALLY SOUTHEASTERLY DIRECTION BEFORE ULTIMATELY ENTERING BACKLICK RUN.

POST-DEVELOPMENT CONDITIONS:

THE REDEVELOPMENT OF THE PROJECT SITE PROPOSES A NEW RETAIL/WAREHOUSE BUILDING WITH A GREEN ROOF DESIGN, A NEW PUBLIC ACCESS DRIVE, PERVIOUS PAVER SIDEWALK, TWO BIORETENTION BMP FACILITIES, AND ASSOCIATED IMPROVEMENTS. OVERALL IMPERVIOUS AREA WILL INCREASE WITH THE PROPOSED CONSTRUCTION. HOWEVER, THE INCREASE IN STORMWATER RUNOFF ASSOCIATED WITH THE IMPERVIOUS AREA HAS BEEN ADEQUATELY ACCOUNTED FOR THROUGH RUNOFF REDUCTION AND DETENTION PROVIDED BY THE PROPOSED BMP FACILITIES. THE PROJECT SITE HAS TWO OUTFALL POINTS IN PROPOSED CONDITIONS.

OUTFALL #1: IN POST-DEVELOPMENT CONDITIONS, A PORTION OF ONSITE STORMWATER RUNOFF IS COLLECTED WITHIN THE NORTHERNMOST PROPOSED ONSITE BIORETENTION BMP FACILITY WHICH THEN DISCHARGES INTO THE EXISTING DRAINAGE CHANNEL RUNNING ALONG THE EASTERN PROPERTY LINE OF THE SITE. THE SUBJECT STORMWATER RUNOFF THEN FLOWS IN A GENERALLY SOUTHERLY DIRECTION BEFORE IT ENTERS AN EXISTING CITY OF ALEXANDRIA MAINTAINED STORM SEWER SYSTEM (EX1). FROM THERE, THE RUNOFF FLOWS IN A GENERALLY SOUTHERLY DIRECTION UNTIL IT ENTERS EXISTING STRUCTURE EX2. AT THIS POINT, THE FLOW COMBINES WITH AN AREA THAT IS AT LEAST 90% THE SIZE OF THE FIRST DRAINAGE AREA, CREATING THE ANALYSIS POINT OF CONFLUENCE. THE ANALYSIS CONTINUES 150' PAST THE POINT OF CONFLUENCE TO THE LIMITS OF ANALYSIS WITHIN THE EXISTING DRAINAGE CHANNEL TO THE SOUTH OF THE SITE.

OUTFALL #2: THE REMAINING RUNOFF IS COLLECTED ONSITE VIA THE REMAINDER OF THE BMP FACILITIES AND A PROPOSED PRIVATE STORM SEWER WHERE IT ENTERS THE EXISTING CITY OF ALEXANDRIA MAINTAINED STORM SEWER SYSTEM AT STRUCTURE PR1. FROM THERE, THE SUBJECT STORMWATER RUNOFF DRAINS IN A GENERALLY EASTERLY WHERE IT CONVERGES WITH THE REST OF THE SITE'S RUNOFF AT STRUCTURE EX2. AT THIS POINT, THE FLOW COMBINES WITH AN AREA THAT IS AT LEAST 90% THE SIZE OF THE FIRST DRAINAGE AREA, CREATING THE ANALYSIS POINT OF CONFLUENCE. THE ANALYSIS CONTINUES 150' PAST THE POINT OF CONFLUENCE TO THE LIMITS OF ANALYSIS WITHIN THE EXISTING DRAINAGE CHANNEL TO THE SOUTH OF THE SITE.

COMPUTATIONS SHOWN ON THIS SHEET DEMONSTRATE THAT THE EXISTING MANMADE STORMWATER CONVEYANCE SYSTEM EXPERIENCES LOCALIZED FLOODING IN EXISTING CONDITIONS. HOWEVER, THE PEAK FLOW RATE FOR THE 2 AND 10-YEAR, 24 HOUR STORMS ARE BEING REDUCED WITH THE PROPOSED DEVELOPMENT THROUGH RUNOFF REDUCTION AND DETENTION PROVIDED BY THE PROPOSED BMP FACILITIES. THE WATER QUANTITY REQUIREMENTS FOR THIS SITE IS THEREFORE IN COMPLIANCE WITH SECTIONS 13-109F(1)(a)(i) AND 13-109F(2)(b)(ii) FOR OUTFALL #1 AND OUTFALL #2. DUE TO SITE DRAINAGE OUTFALLS 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 2 & 10-YEAR, 24-HOUR STORMS, THE PROJECT POST-DEVELOPMENT RUNOFF WILL NOT EXACERBATE ANY EXISTING DOWNSTREAM CAPACITY CONDITIONS.

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DEPARTMENT OF PLANNING & ZONING	
DIRECTOR	DATE
DEPARTMENT OF TRANSPORTATION & ENVIRON	MENTAL CERVICES
SITE PLAN NO. 2020—C	
SITE PLAN NO	0021
SITE PLAN NO	0021

INSTRUMENT NO.

DEED BOOK NO.

CHECKED: ACS
SCALE: AS NOTED
DATE: AUG 12, 202
OUTFALL

DESIGN: ABH

DATE | REVISION

Lic. No. 047863

SEPTEMBER 15, 2020

ANALYSIS

SHEET 11 OF 17
FILE: 19-200

LEGEND:

STORM STRUCTURE

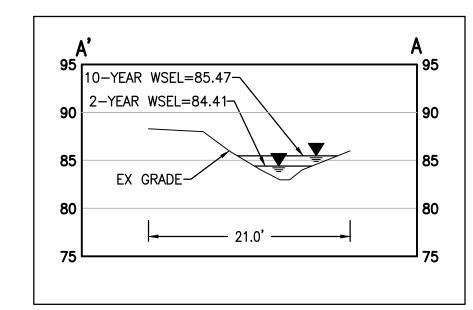
DRAINAGE AREA TO
LIMITS OF ANALYSIS

LIMITS OF DISTURBANCE

10-YR, 24-HR STORM SEWER COMPUTATIONS																	
STRUCTURE W A R F O J O R O S F F								RT									
FROM	5	INC. DRAINAG AREA (AC)	ACCUM. DRAINAGE ARE (AC)	CURVE NUMBER	RAINFALL DEPTH (IN)	T _c (MINUTES)	INCREMENTA "Q" (CFS)	ACCUMULATE "Q" (CFS)	PIPE DIAMETE (IN)	SLOPE (%)	"u"	MAXIMUM "Q" (CFS)	MAXIMUM VELOCITY (FP)	LENGTH OF RUN (FT)	UPPER INVERT	LOWER INVER	FALL (FT)
EX1	EX2	21.56	21.56	95	5.20	15	95.62	95.62	24	2.83%	0.015	34.39	10.52	40	82.98	81.85	1.13
PR1	EX2	5.64	5.64	93	5.20	15	24.27	24.27	24	0.62%	0.015	16.10	4.92	42	82.33	82.07	0.26
EX2	EX3	0.21	27.41	84	5.20	15	0.74	120.63	30	13.65%	0.015	137.08	26.83	26	81.67	78.12	3.55
EX3	EX4	0.00	27.41	95	5.20	15	0.00	120.63	72	0.41%	0.015	244.72	8.32	49	75.92	75.72	0.20
EX4	EX5	39.82	67.23	95	5.20	15	176.60	297.23	72	0.31%	0.015	214.13	7.28	32	75.72	75.62	0.10

B' 10-YEAR WSEL=76.71- 85 2-YEAR WSEL=75.16- EX GRADE 80 75 75 70 65

SWALE CROSS-SECTION B-B'
(2-YEAR AND 10-YEAR, 24 HOUR STORM)
SCALE: 1"=10'



SWALE CROSS-SECTION A-A'
(2-YEAR AND 10-YEAR, 24 HOUR STORM)
SCALE: 1"=10'

SANITARY SEWER OUTFALL CALCULATIONS:

003059SSMH

002330SSMH

002331SSMH

002332SSMH

002333SSMH

E | 69.77 | 21 | 4.678 | 200.10 |

15 3.379

FACILITY ID

10

002330SSMH

002331SSMH

002332SSMH

002333SSMH

002316SSMH

250.55

10.29

C | 82.72 | 10 | 1.427 | 309.95 | 2.3148 | 7.17 | 5.39 | 0.113 |

SANITARY SEWER HYDRAULIC GRADE LINE CALCULATIONS:

1.952

 $\mathsf{S_{fo}\,\%}$

0.5792

2.0608

STRUCTURE

INLET OUTLET

WSE

70

SANITARY SEWER OUTFALL CALCULATIONS:

THE EXISTING USE (VACANT LOT) DOES NOT PRODUCE A SANITARY FLOW AS NO STRUCTURE IS LOCATED ON SITE. THE AVERAGE DAY AND PEAK HOUR WASTEWATER DISCHARGE FLOW CALCULATIONS WERE COMPUTED USING THE METHOD PROVIDED BY THE CITY OF ALEXANDRIA IN MEMORANDUM TO INDUSTRY NO. 06-14. THE PROPOSED USE FOR THIS PROJECT IS RETAIL (10,070 SF) AND WAREHOUSE (5,223 SF). THE AVERAGE DAILY FLOW IS DESCRIBED BELOW:

(200 GPD/1,000 SF X 4 PFF) = (200 GPD/1,000 SF X 10,070 SF) X 4 = 8,056 GPD OR 0.0125 CFSWAREHOUSE: (200 GPD/1,000 SF X 4 PFF) = (200 GPD/1,000 SF X 5,223 SF) X 4 = 4,179 GPD OR 0.0065 CFS

12,235 GPD OR 0.0189 CFS

SANITARY SEWER OUTFALL NOTE:

THIS PROJECT IS ANTICIPATED TO GENERATE AN INCREASE IN EXCESS OF 10,000 GPD IN SANITARY WASTE OUTFLOW. A PEAK FLOW OF APPROXIMATELY 12,235 GPD IS EXPECTED FOR THIS DEVELOPMENT. THEREFORE, THE PROJECT IS SUBJECT TO A SANITARY SEWER OUTFALL ANALYSIS. THIS SANITARY SEWER OUTFALL ANALYSIS SHOWS ADEQUACY OF THE SANITARY SEWER OUTFALL IN ACCORDANCE WITH MEMO TO INDUSTRY 06-14. THE GENERAL AREA IS NOT KNOWN TO HAVE SANITARY SEWER CAPACITY PROBLEMS.

THIS PROJECT WILL CONNECT TO AN EXISTING 10" SANITARY SEWER (MAINTAINED BY CITY OF ALEXANDRIA) WITH A PROPOSED SANITARY LATERAL CONNECTION IN BETWEEN EXISTING STRUCTURES C & A. SANITARY FLOW IS THEN CONVEYED SOUTH THROUGH EXISTING SANITARY SEWER (MAINTAINED BY CITY OF ALEXANDRIA) UNTIL IT ENTERS AN EXISTING 42" SANITARY SEWER AT EXISTING STRUCTURE F. SEE SANITARY SEWER OUTFALL MAP THIS SHEET FOR MORE INFORMATION. PER MEMO TO INDUSTRY 06-14, THE LIMITS OF ANALYSIS FOR THE SANITARY SEWER ADEQUATE OUTFALL IS AT A POINT WHERE THE DOWNSTREAM SEWER HAS A MINIMUM DIAMETER OF 24". THEREFORE, THE SANITARY SEWER ANALYSIS CONCLUDES AT EXISTING STRUCTURE F.

SANITARY SEWER INFORMATION NOTE:

ETTED

1.85

RIM

ELEV BOARD

FREE

2.68

7.48 | 5.39 | 0.41

6.25

0.5

FINAL INLET

0.64 9.09 82.21 85.50

0.30 0.51 82.72 85.40

WSE

0.09 | 1.39 | 71.16 | 79.64 | 8.48

0.06 | 7.23 | 89.95 | 96.08 | 6.13

73.12 83.58

0.21

1.3

SCALE: 1" = 100'

10.3

ANGLE

80.46 80.25

0.015 **10.90** 4.35 250.5 71.18 69.73 1.45 4.23 0.81

0 | 0.000 | 0.172 |

0.000 1.009

0.388 1.272

0.289 0.598

10 | 2.41% | RCP | 0.015 | **3.08** | 5.42 | 310.0 | 88.00 | 80.52

6.54

| 15.96% | RCP | 0.015 | **23.34** | 18.28 | 54.8 | 80.04 | 71.29 | 8.75

JUNCTION LOSS

19.62 0.097

44.58 0.940

7.69 0.158

8.35

0.040 **4.678** 21 0.64% RCP 0.015 **11.51** 4.60 200.1 69.66 68.37 1.29 4.39

 $Q_i * V_i$

3.379 6.25 21.12 0.212

0.015

RCP

3.390

1.427 5.39

15

1.248 **4.638** 21 0.58% RCP

Vo

0.21 6.25 0.152

1.45

0.6532 | 1.31 | 4.39 | 0.075 | 4.638 | 4.23

4.23 0.069

13.15 0.671

2.04%

THE SANITARY SEWER INFORMATION PRESENTED BELOW WAS OBTAINED THROUGH COORDINATION WITH CITY STAFF. THIS INFORMATION INCLUDES EXISTING SANITARY PIPE INFORMATION AND EXISTING SANITARY FLOW DATA.

> Lic. No. 047863 SEPTEMBER 15, 2020

> > OPMENT

REVISION

DESIGN: ABH

CHECKED: ACS SCALE: 1"=100'

SANITARY

OUTFALL

DATE: AUG 12, 2020

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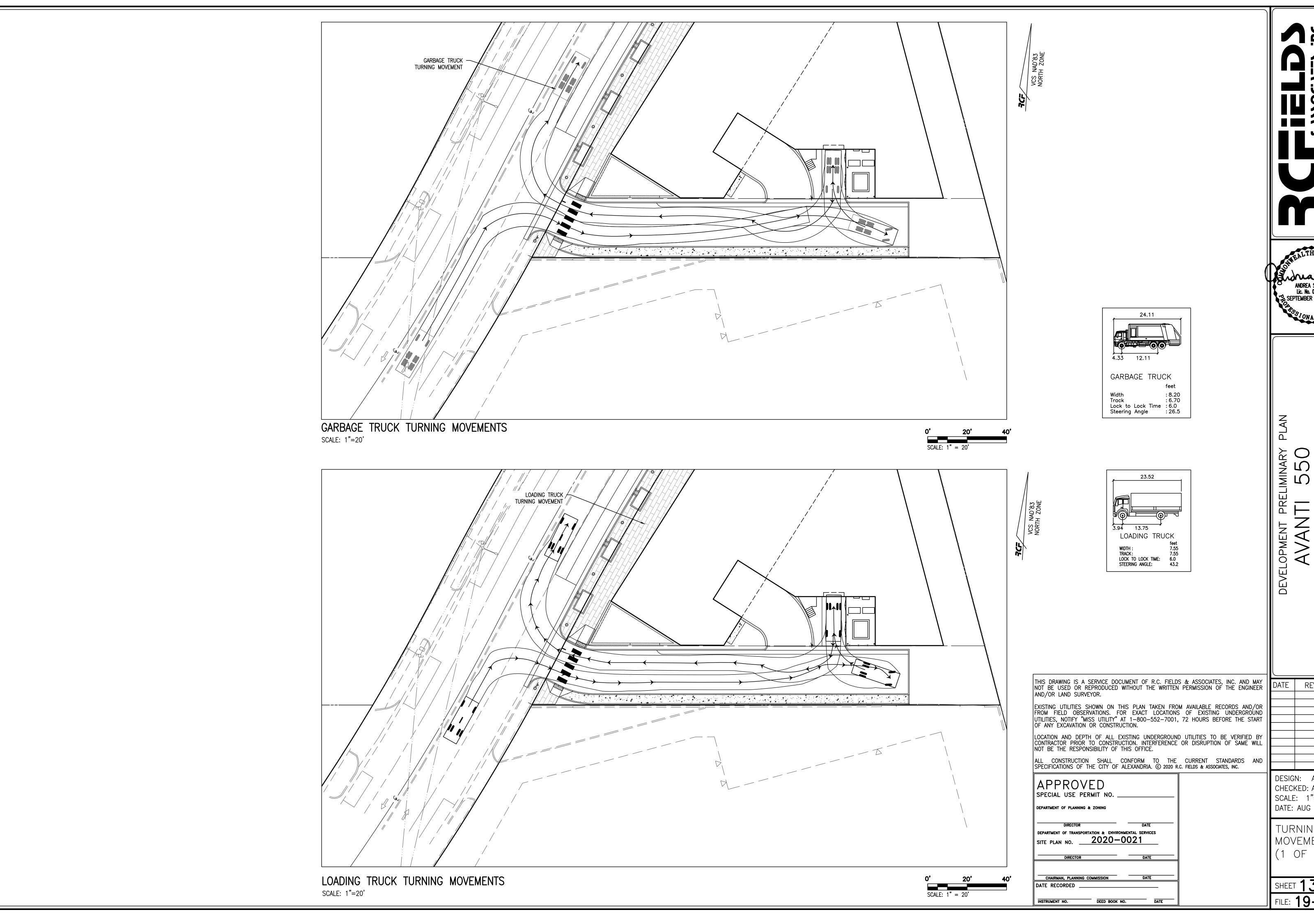
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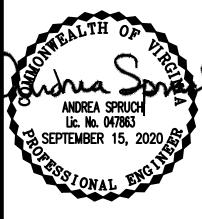
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SPECIFICATIONS OF THE CITY OF AL	_EXANDRIA. © 2020			
APPROVED SPECIAL USE PERMIT NO				
DEPARTMENT OF PLANNING & ZONING				
DIRECTOR	DATE			
DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES SITE PLAN NO. 2020-0021				
DIRECTOR	DATE			
CHAIRMAN, PLANNING COMMISSION	DATE			
DATE RECORDED				
INSTRUMENT NO. DEED BOOK NO.	DATE			

ANALYSIS



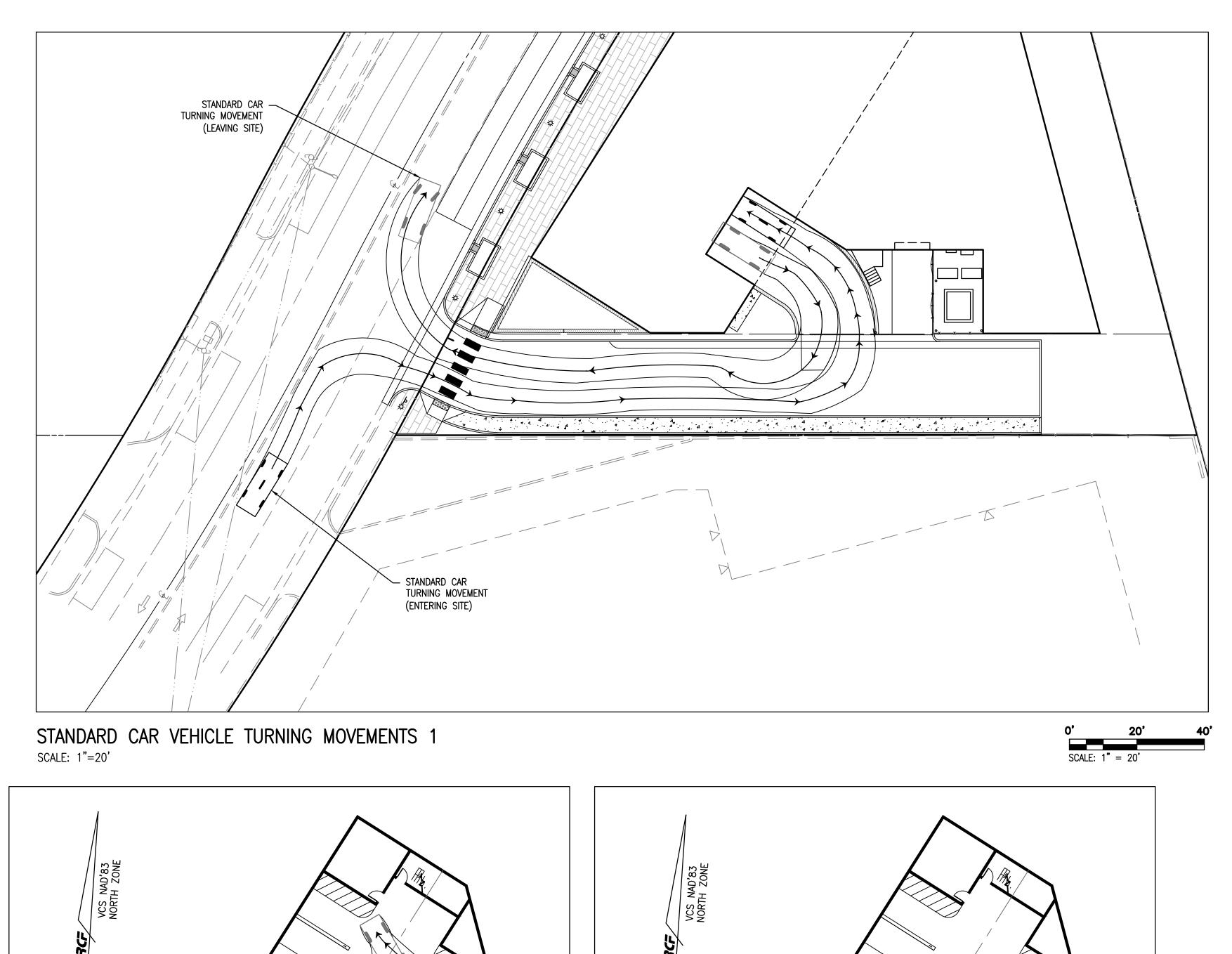


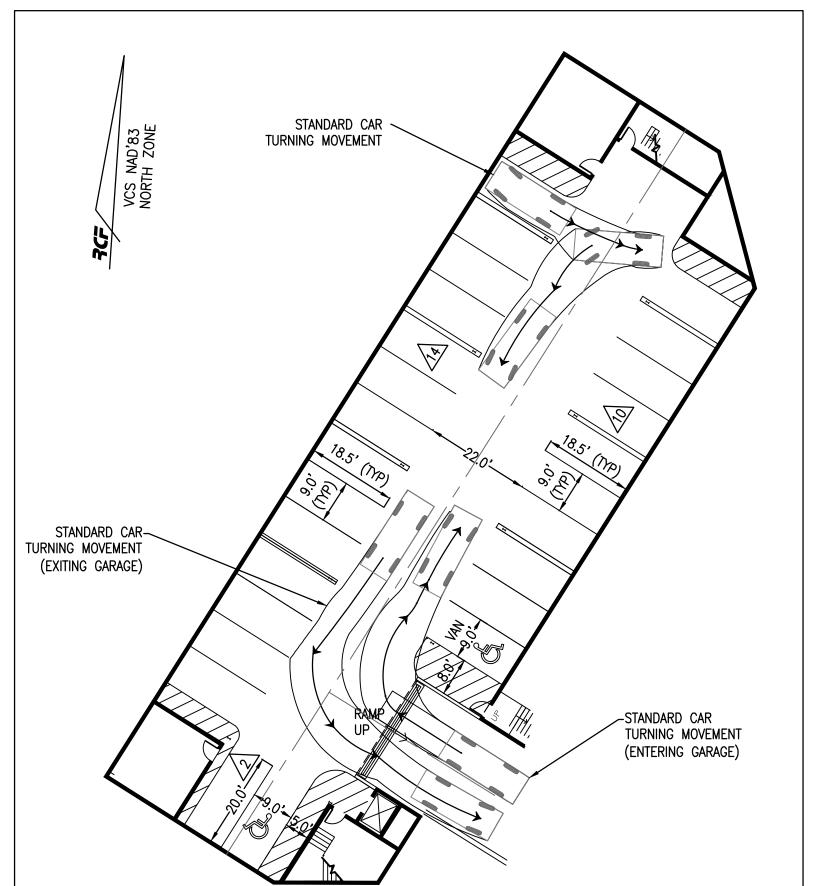
DATE REVISION

DESIGN: ABH CHECKED: ACS SCALE: 1"=20' DATE: AUG 12, 2020

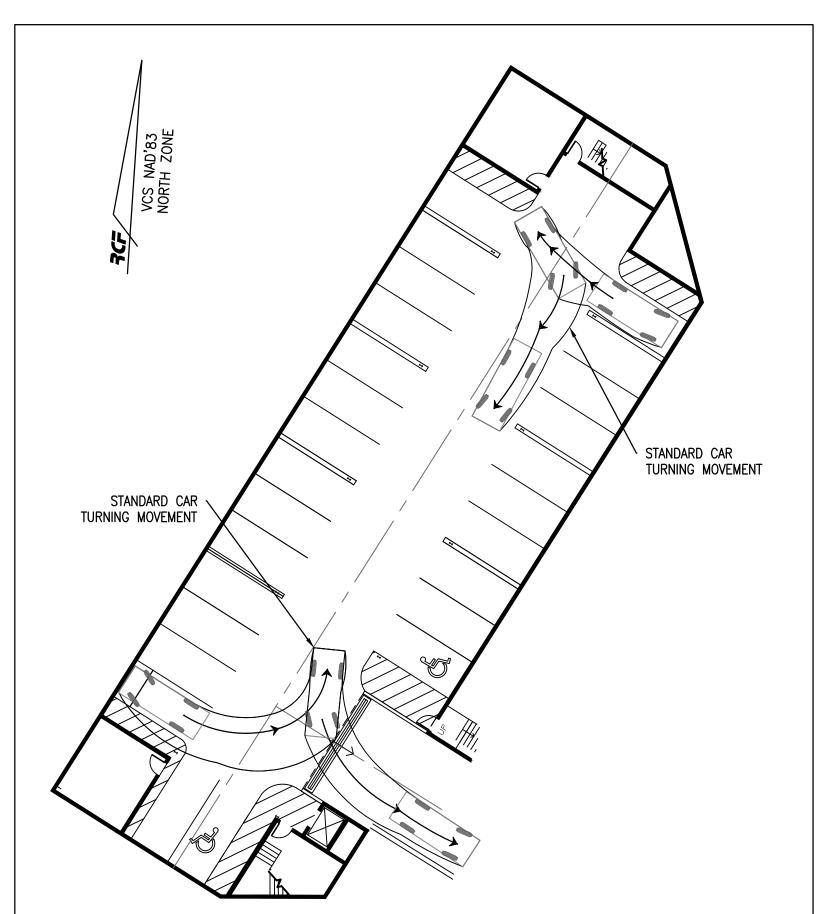
TURNING MOVEMENTS (1 OF 2)

FILE: 19-200

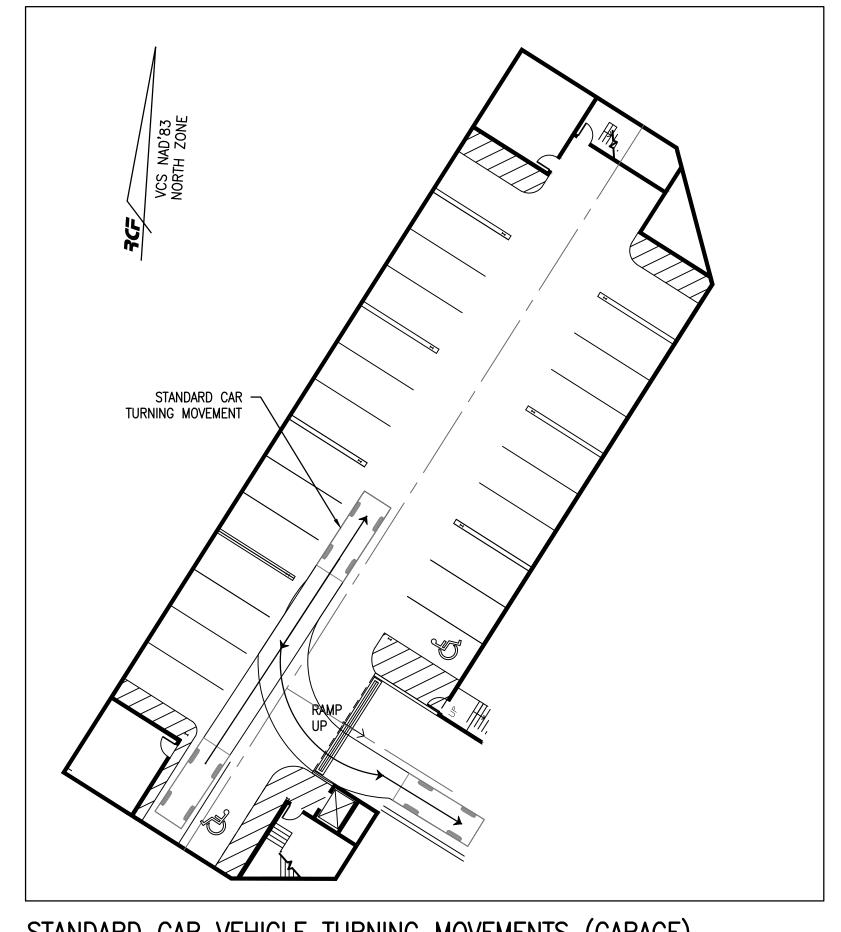








STANDARD CAR VEHICLE TURNING MOVEMENTS (GARAGE)



STANDARD CAR VEHICLE TURNING MOVEMENTS (GARAGE)

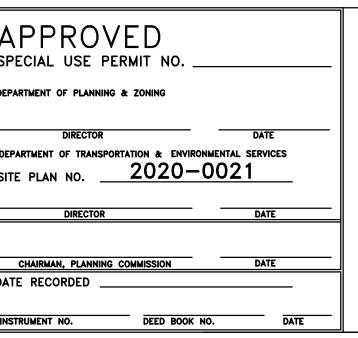
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DIRECTOR DATE DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES SITE PLAN NO						
DIRECTOR	DATE					
CHAIRMAN, PLANNING COMMISSION	DATE					
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INSTRUMENT NO. DEED BOOK NO.	DATE					

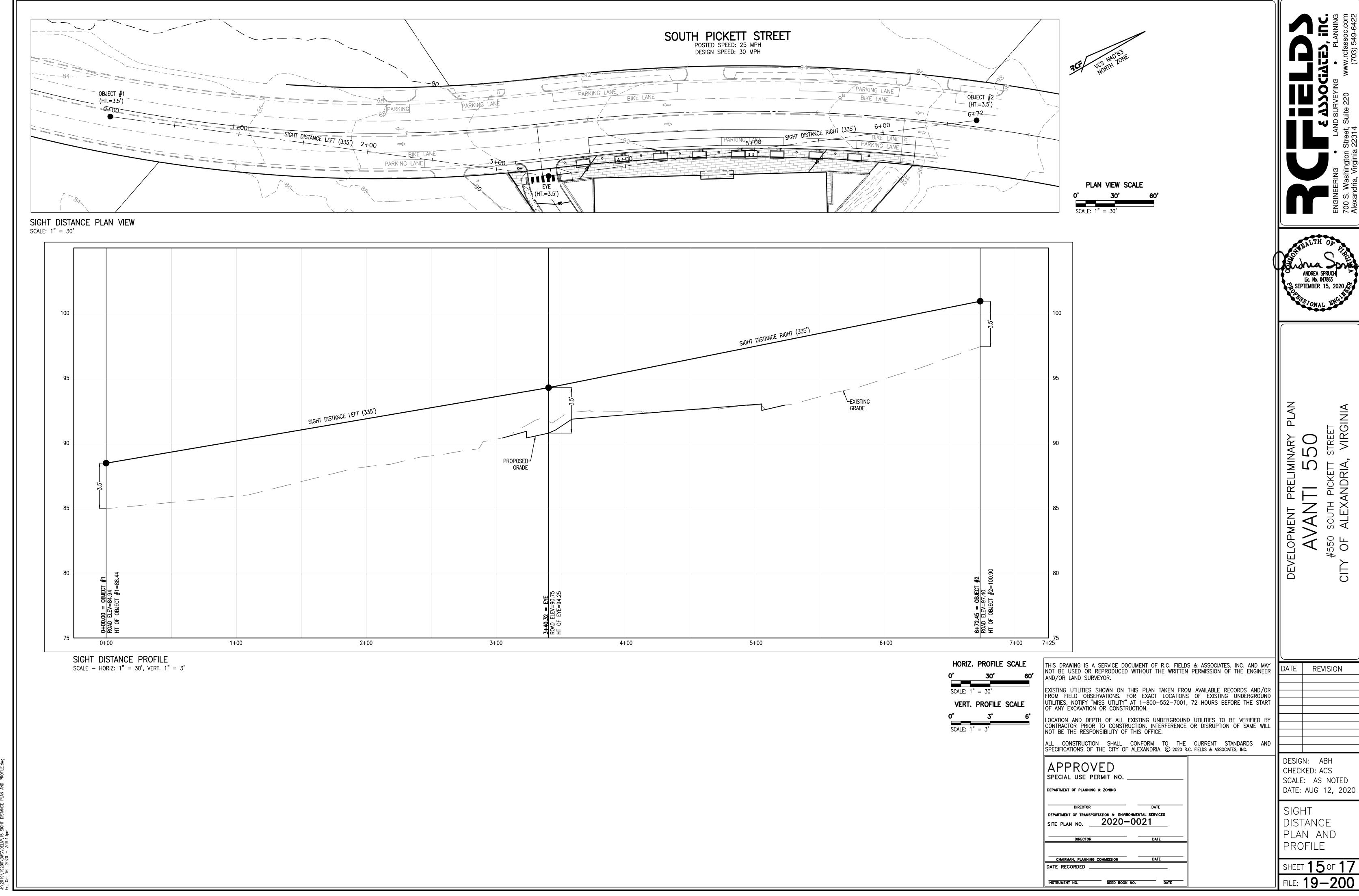


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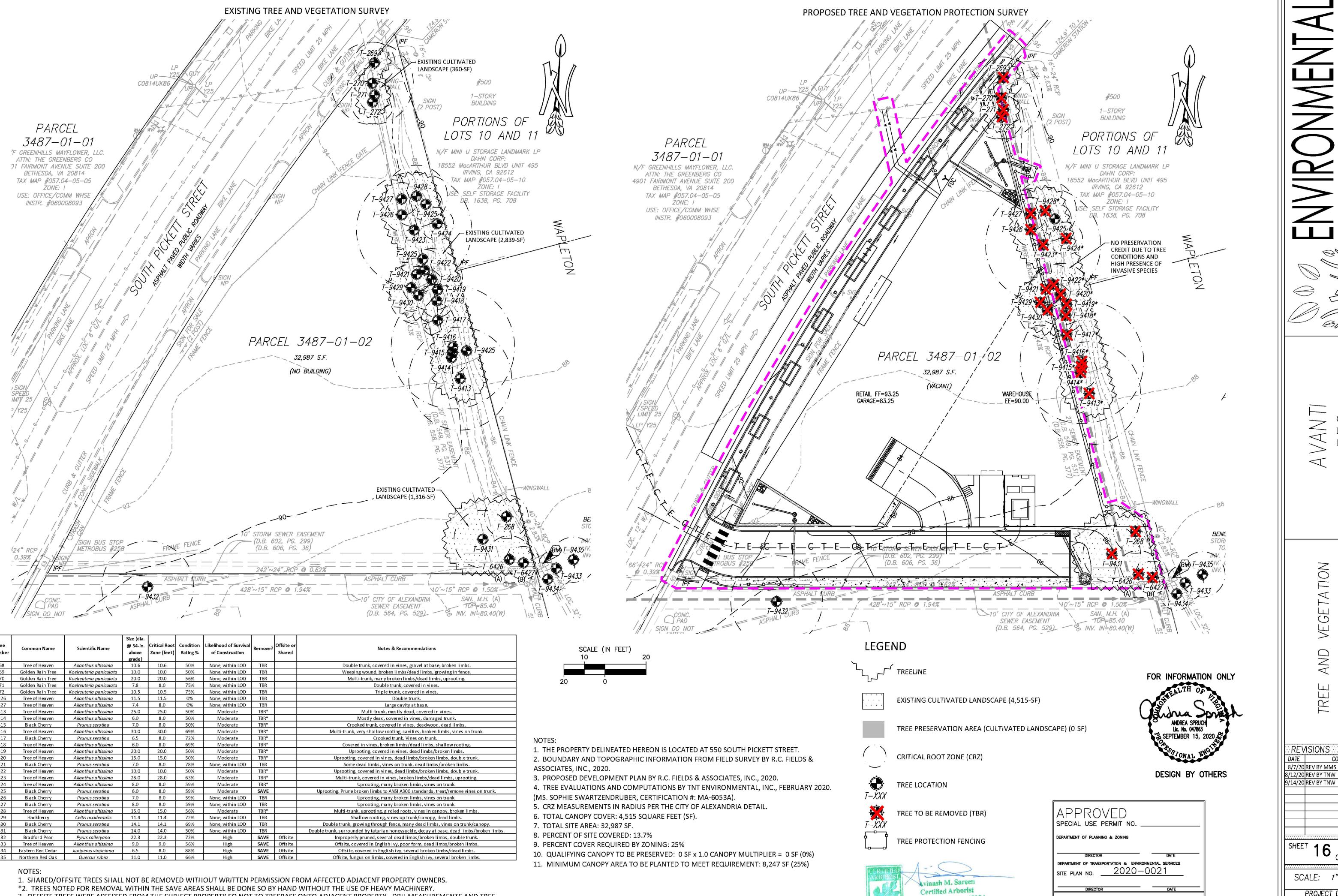
DATE REVISION

CHECKED: ACS SCALE: 1"=20' DATE: AUG 12, 2020

TURNING MOVEMENTS (2 OF 2)



J:\2019\19200\DWG\DELIV\15 SIGHT DISTANCE PLAN AND PROFILE.dwg



lertification # MA-4727A

DEED BOOK NO.

3. OFFSITE TREES WERE ASSESSED FROM THE SUBJECT PROPERTY SO NOT TO TRESPASS ONTO ADJACENT PROPERTY. DBH MEASUREMENTS AND TREE

4. TREES LOCATED WITHIN OR ON THE LIMITS OF DISTURBANCE, OR RATED AS BEING "POOR" IN CONDITION, ARE RECOMMENDED FOR REMOVAL BY

TNT ARBORISTS DUE TO THE LIKELIHOOD OF TREE FAILURE. HOWEVER, AT THE DISCRETION OF THE APPLICANT, SOME OF THESE MAY BE PRESERVED

LOCATIONS ARE APPROXIMATE.

DURING CONSTRUCTION WITH THE APPROVAL OF THE CITY.

NO \prec \bigcirc \Box TRE

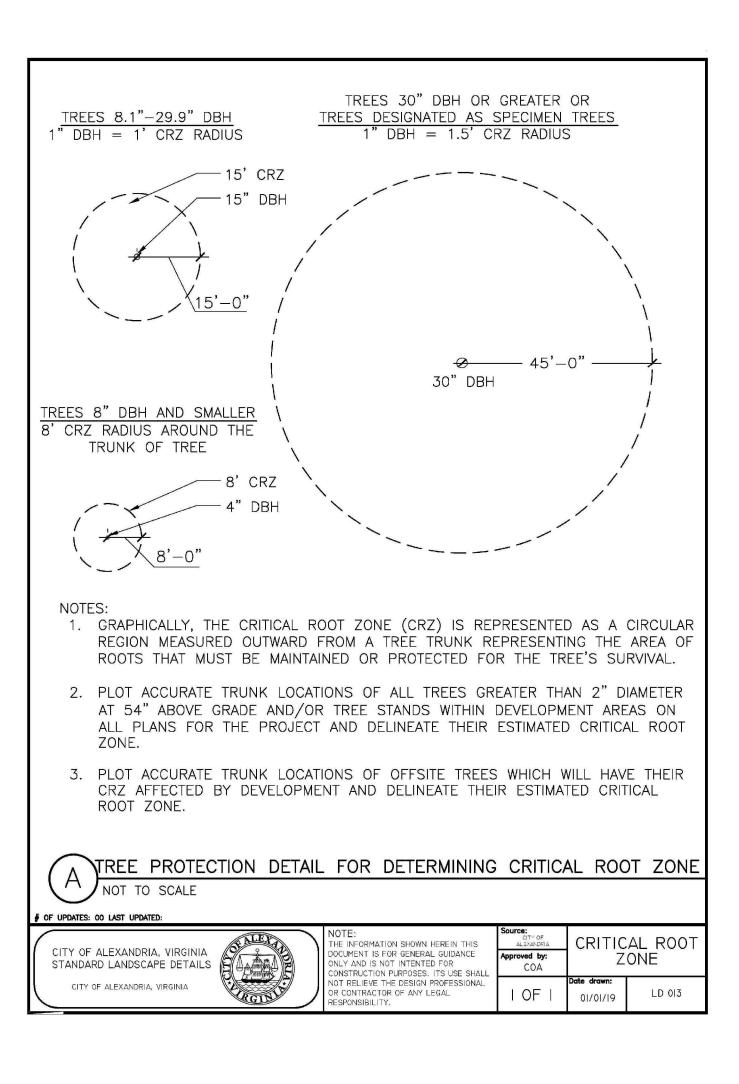
COMMENTS 8/7/20 REV BY MMS 8/12/20 REV BY TNW

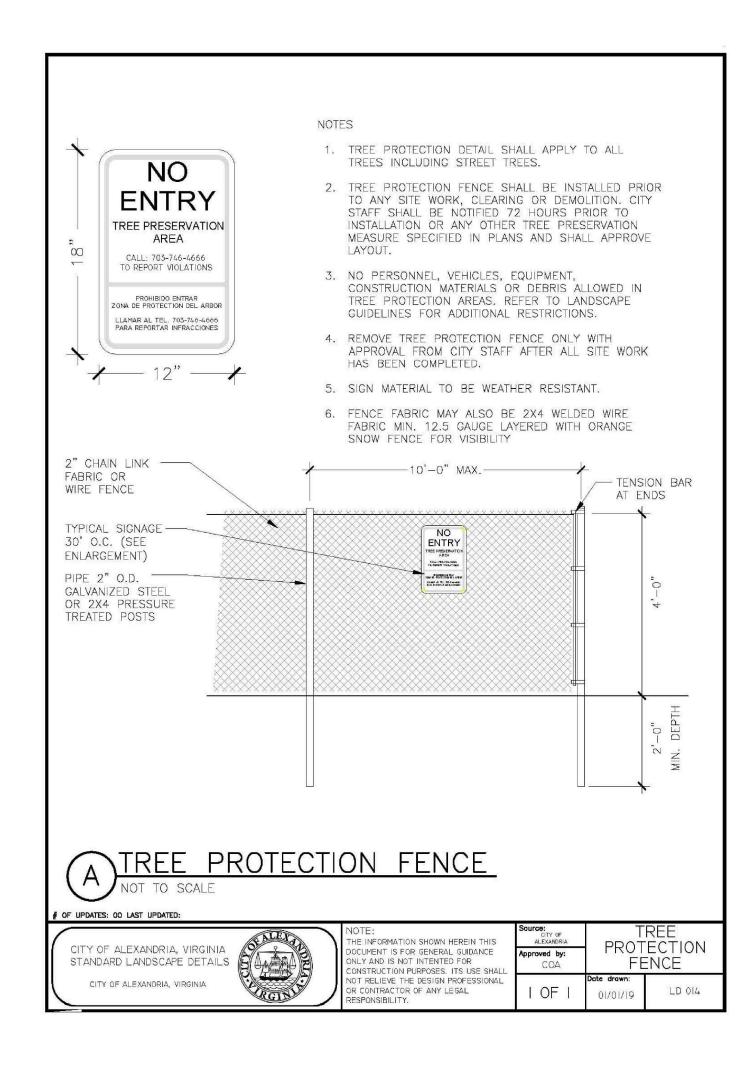
16 of 17

SCALE: 1" - 20' PROJECT DATE: 6/3/20 DRAFT: CHECK: TNW

FILE NUMBER:

1856





INVASIVE SPECIES CONTROL NARRATIVE:

1. ANY APPLICATION OF ENVIRONMENTALLY SENSITIVE APPROVED HERBICIDES SHALL BE APPLIED BY A VIRGINIA CERTIFIED APPLICATOR OR REGISTERED TECHNICIAN.

2. MULTIFLORA ROSE: HEAVILY INFESTED AREAS MAY BE CLEARED WITH A SHOVEL OR GRUBBING HOE PROVIDED THE ENTIRE ROOT IS REMOVED. THIS TREATMENT MUST BE REPEASED 3-6 TIMES A YEAR FOR 2-4 YEARS UNTIL THE ENERGY RESOURCES OF THE PLANT HAVE BEEN DEPLETED. DORMANT SEASON HERBICIDE APPLICATIONS SHOULD BE MADE IN LATE WINTER OR EARLY SPRING PRIOR TO LEAF OUT. DEPENDING ON THE TYPE OF HERBICIDE CHOSEN, APPLY TO THE SOIL SURFACE OR TO THE CROWN AND LOWER PORTIONS OF CANES. BASAL BARK APPLICATIONS SHOULD BE MADE TO THE CROWN AND LOWER 12-18 INCHES OF STEMS. THIS METHOD IS EFFECTIVE THROUGHOUT THE YEAR AS LONG AS THE GROUND IS NOT FROZEN. APPLY A MIXTURE OF 25% TRICLOPYR AND 75% HORTICULTURAL OIL TO THE BASAL PARTS OF THE SHRUB TO A HEIGHT OF 12-15 INCHES FROM THE GROUND. THOROUGH WETTING IS NECESSARY FOR GOOD CONTROL; SPRAY UNTIL RUNOFF IS NOTICEABLE. CUT STUMP METHOD SHOULD BE CONSIDERED WHEN TREATING INDIVIDUAL BUSHES OR WHERE THE PRESENCE OF DESIRABLE SPECIES PRECLUDE FOLIAR APPLICATION. THIS TREATMENT REMAINS EFFECTIVE AT LOW TEMPERATURES AS LONG AS THE GROUND IS NOT FROZEN.

GLYPHOSATE/TRICLOPYR: HORIZONTALLY CUT STEMS AT OR NEAR GROUND LEVEL. IMMEDIATELY APPLY A 25% SOLUTION OF GLYPHOSATE OR TRICLOPYR AND WATER TO THE CUT STUMP MAKING SURE TO COVER THE ENTIRE SURFACE.

3. JAPANESE HONEYSUCKLE: SHALL BE REMOVED BY HAND TO MINIMIZE SITE DISTURBANCE. TO REDUCE DAMAGE TO NON-TARGET PLANTS, HERBICIDES SUCH AS GLYPHOSATE AND TRICLOPYR MAY BE APPLIED TO FOLIAGE BY A VIRGINIA CERTIFIED APPLICATOR DURING GROWING SEASON (APRIL TO OCTOBER). THOROUGHLY COVER ALL LEAVES AND/OR FRESHLY CUT STEMS IN HERBICIDE, REPEAT AS NECESSARY.

4. JAPANESE STILTGRASS: STILTGRASS SHOULD BE REMOVED BY HAND OR MOWN DOWN WITH A WEED WHACKER IN MID-TO-LATE SUMMER BEFORE THE PLANTS SET SEED. FOR EXTENSIVE INFESTATIONS, AN APPLICATION GLYPHOSATE HERBICIDE AS A 0.5-2 PERCENT SOLUTION (2 TO 8 OUNCES PER 3-GALLON MIX) SHALL BE APPLIED BY A VIRGINIA CERTIFIED APPLICATOR IN EARLY SUMMER. REPEAT TREATMENTS AS NECESSARY.

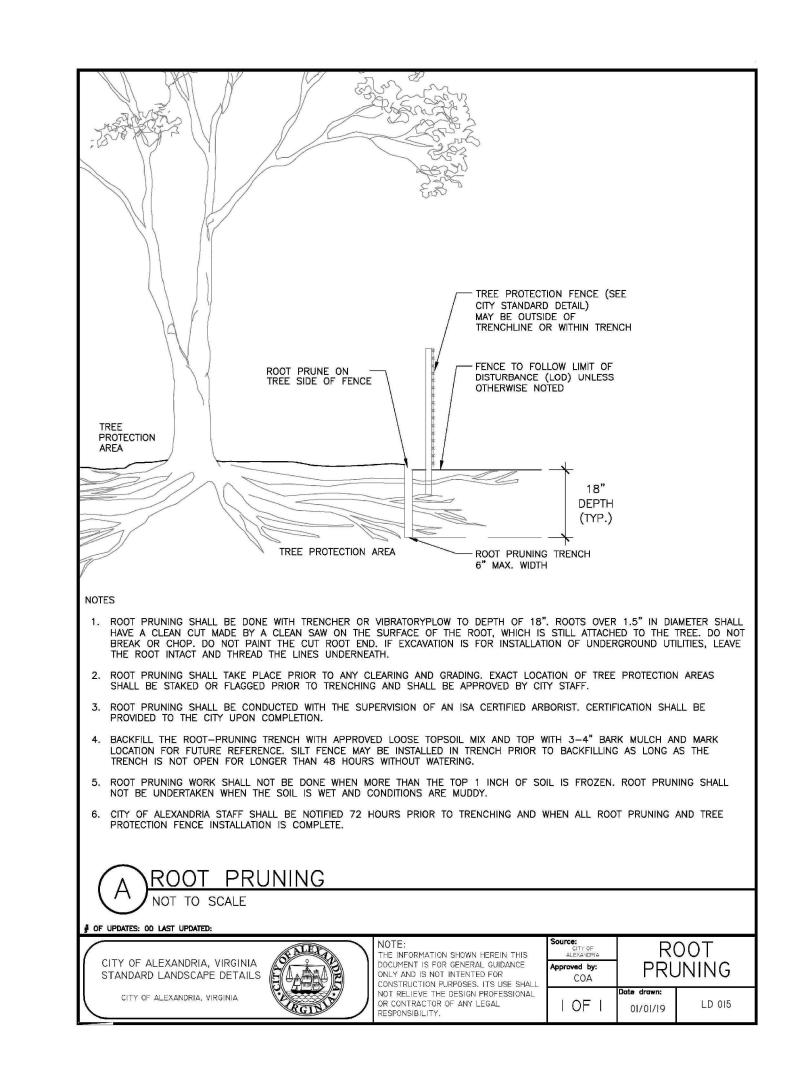
5. BRADFORD PEAR: ANY BRADFORD PEAR OF ANY SIZE ARE TO BE REMOVED FROM TREE PRESERVATION AREAS BY HAND. THE STUMP WILL BE CUT, FLAGGED AND PAINTED WITH AN AN ENVIRONMENTALLY SENSITIVE APPROVED HERBICIDE TO BE APPLIED BY A VIRGINIA CERTIFIED APPLICATOR.

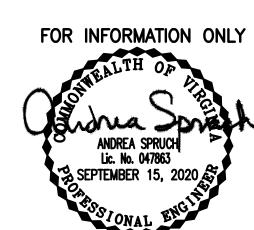
6. ORNAMENTAL BITTERSWEET: VINES SHALL BE REMOVED BY HAND, INCLUDING THE ROOTS, WHERE POSSIBLE TO MINIMIZE DISTURBANCE. FOR VINES TOO LARGE TO PULL, CUT AT GROUND LEVEL OR GRUB. CUT VINE STEMS MAY ALSO BE TREATED WITH A SYSTEMIC HERBICIDE BY A CERTIFIED APPLICATOR. FOR LARGE INFESTATIONS, A FOLIAR APPLICATION OF A SYSTEMIC HERBICIDE SUCH AS GLYPHOSATE OR TRICLOPYR MAY BE APPLIED FROM LATE SUMMER TO FALL BY A CERTIFIED APPLICATOR.

7. AILANTHUS (TREE OF HEAVEN): SMALL SEEDLINGS SHOULD BE REMOVED BY HAND, TAKING CARE TO EXTRACT AS MUCH OF THE ROOT AS POSSIBLE. LARGER SAPLINGS AND TREES SHALL BE CUT OR GIRDLED, AND CHECKED REGULARLY FOR RESPROUTING AND SUCKERING. HERBICIDES SUCH AS GLYPHOSATE MAY BE APPLIED TO CUT STUMPS AND/OR THE FOLIAGE OF SPROUTS AND SUCKERS BY A CERTIFIED APPLICATOR.

8. TATARIAN HONEYSUCKLE: WHERE POSSIBLE, SEEDLINGS INCLUDING ROOT STRUCTURE SHOULD BE EXCAVATED AND REMOVED WITH SHOVEL. ALTERNATIVELY, BRANCHES AND MAIN STEM SHOULD BE CUT BACK TO ONE (1) INCH ABOVE SOIL SURFACE DURING MID TO LATE AUTUMN WHEN TEMPERATURES ARE ABOVE 60 DEGREES FAHRENHEIT. A SOLUTION OF AT LEAST 20% GLYPHOSATE HERBICIDE SHOULD BE APPLIED TO OPEN CUT FACE OF STUMP WITHIN TWO (2) TO THREE (3) MINUTES OF CUT. REFER TO HERBICIDE LABEL FOR APPLICATION INSTRUCTIONS. BRANCHES AND VEGETATION DEBRIS SHOULD BE REMOVED OFFSITE. REAPPLY HERBICIDE IN THE LATE FALL AND AGAIN IN WINTER AS NECESSARY.

9. INVASIVE SPECIES CONTROL SHALL COMMENCE WITH E&S PHASE I AND BE CONDUCTED UNTIL THE PLANTS NOTED ABOVE ARE NO LONGER IN ABUNDANCE OR UNTIL BOND RELEASE, WHICHEVER IS LATER.





DESIGN BY OTHERS



APPROVED SPECIAL USE PERMIT NO	
DEPARTMENT OF PLANNING & ZONING	
DIRECTOR DEPARTMENT OF TRANSPORTATION & ENVIRONMEN SITE PLAN NO	
DIRECTOR	DATE
CHAIRMAN, PLANNING COMMISSION	DATE
DATE RECORDED	
INSTRUMENT NO. DEED BOOK NO.	DATE

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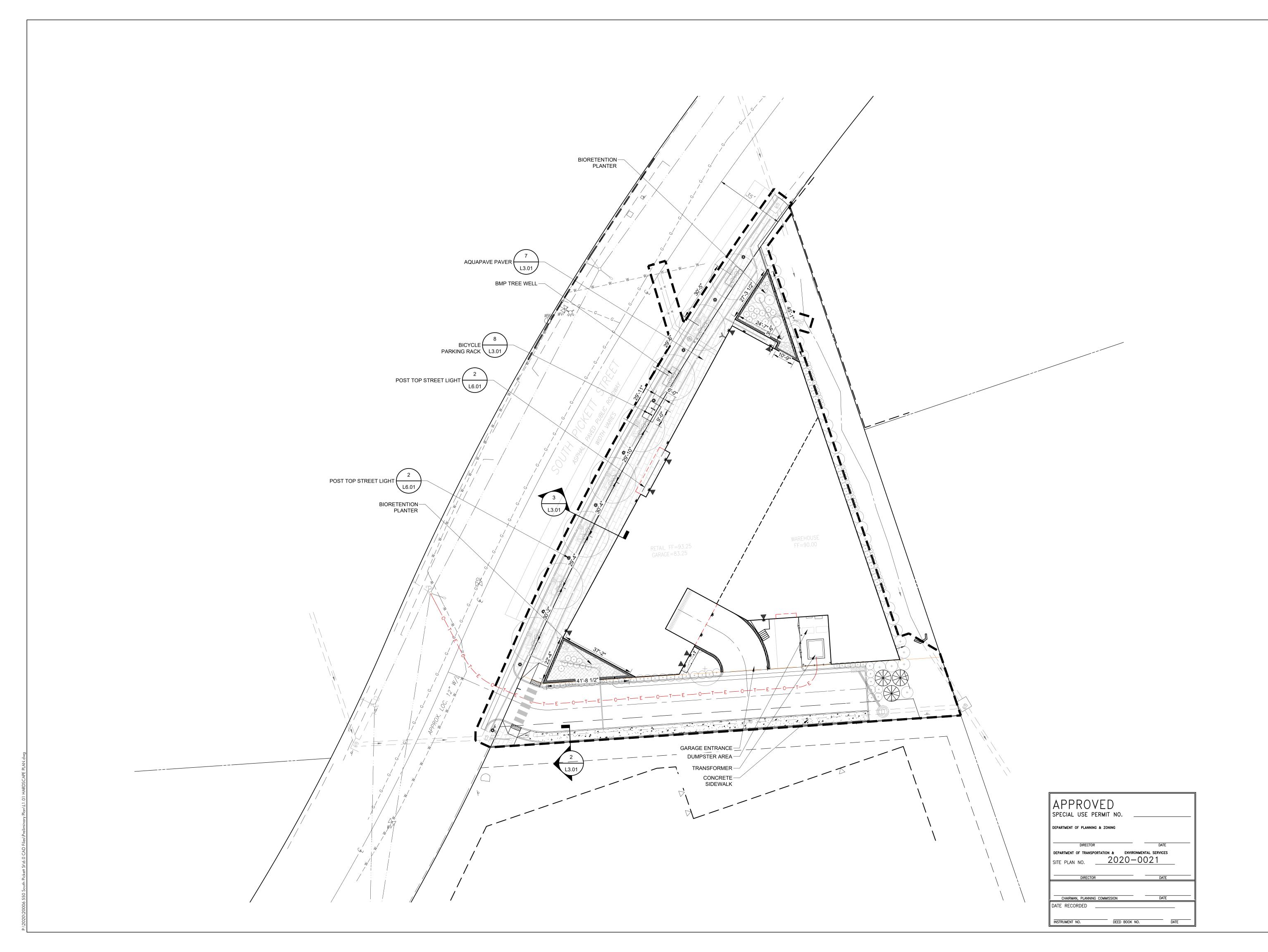
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SHEET 17 OF 17

SCALE: NTS PROJECT DATE: 6/3/20 CHECK: TNW **AMS** FILE NUMBER:



AVANTI 550

550 SOUTH PICKETT STREET ALEXANDRIA, VA 22304 CITY OF ALEXANDRIA

CLIENT

AVANTI HG 550, LLC

STUDIO39

6416 GROVEDALE DR., SUITE 100-A ALEXANDRIA, VIRGINIA 22310 703.719.6500 | STUDIO39.COM

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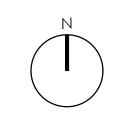
PROJECT NUMBER: 20006

CONTACT: D.DOVE

DRAWN: AM

APPROVED/CHECKED:

ORIENTATION AND SCALE



SCALE: 1"=20'-0"

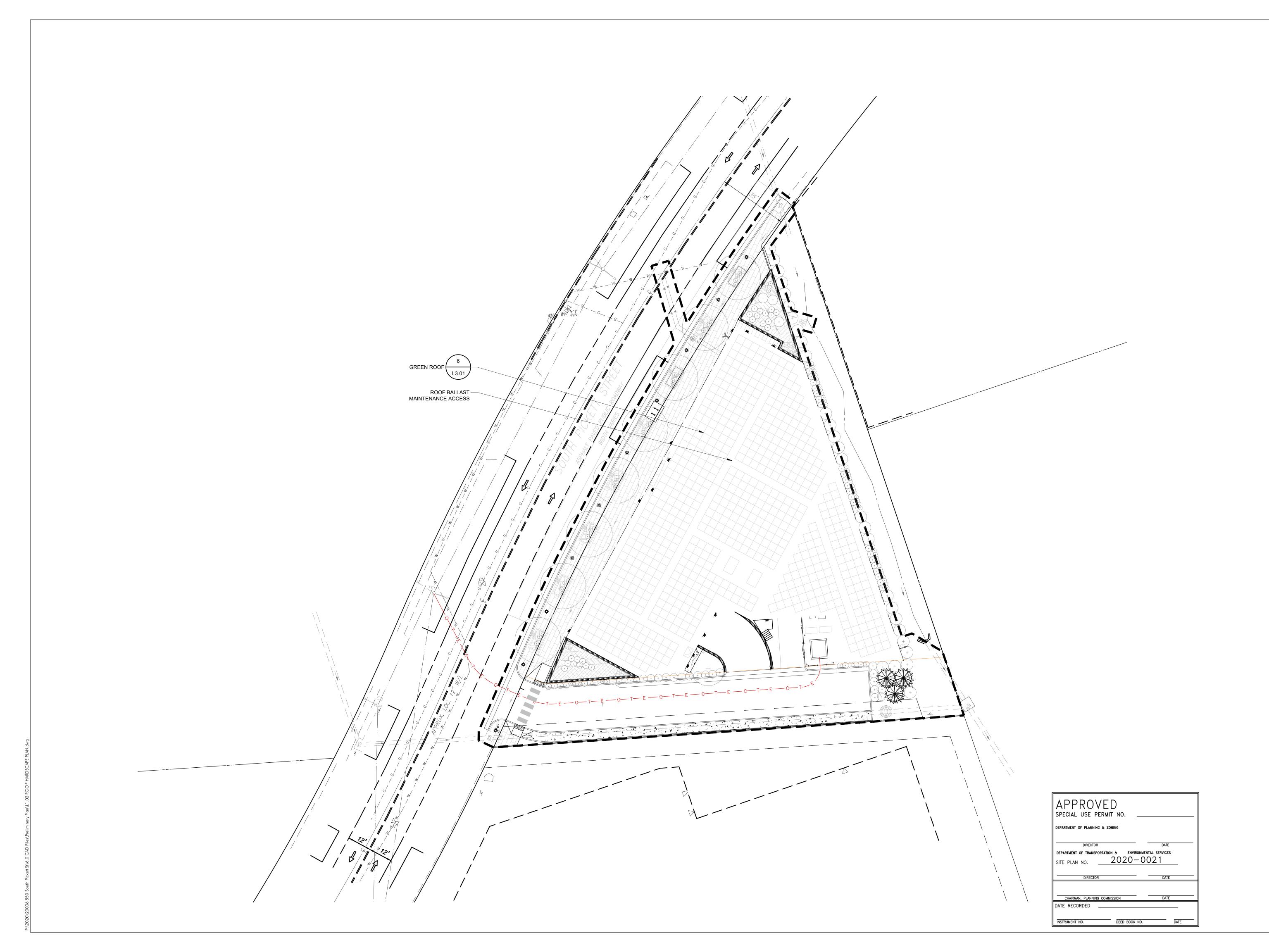
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SHEET TITLE

HARDSCAPE PLAN

SHEET NUMBER

L1.01



AVANTI 550

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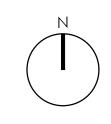
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SHEET TITLE

ROOF HARDSCA

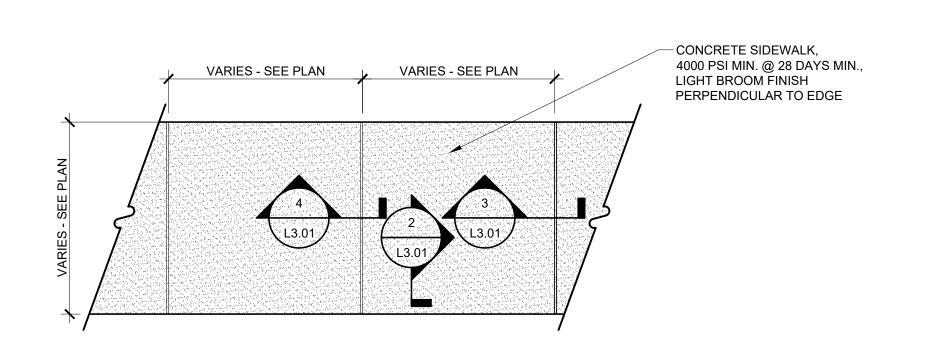
ROOF HARDSCAPE PLAN

SHEET NUMBER

L1.02

CONCEPT II

NOT RELEASED FOR CONSTRUCTION



-CONCRETE PAVING, 4000 PSI MIN. @ 28 DAYS MIN. -6"x6" WWR (W2 x W2), WITH 2" CLEAR FROM BOTTOM OF SLAB - 4" COMPACTED GRADED AGGREGATE SUB-BASE COMPACTED SUBGRADE TO 95% DRY DENSITY - SEE PLAN FOR JOINT PATTERN - SEE GRADING PLAN FOR SLOPES

-UNIT PAVER -2" WEEP HOLE 6'-0" O.C. FILLED WITH STONE COVERED WITH 12"x12" FILTER FABRIC -HAND TIGHT JOINT, $\frac{1}{8}$ " WIDTH MAX. -HOT MIX ASPHALTIC SETTING BED, ROLLED OR TAMPED IN 3/4" - 1" LIFTS COMPACTED WITH 1/16" MAX. NEOPRENE MASTIC COAT. ADD SUB-SURFACE HOT MIX ASPHALTIC BITUMINOUS MATERIAL (9.5MM) AS NECESSARY TO CONSTRUCT A WEDGE COURSE OF 1 1/2" MAX. LIFTS TO PROVIDE THAT PAVERS ARE BROUGHT TO DESIRED FINISH GRADE. -4" CONCRETE SUB-BASE, 4000 PSI MIN. @ 28 DAYS MIN. -4" COMPACTED GRADED AGGREGATE SUB-BASE COMPACTED SUBGRADE TO 95% DRY DENSITY NOTES: - SEE PLAN FOR PAVING PATTERN - SEE GRADING PLAN FOR SLOPES - SETTING BED SAND TO CONFORM WITH ASTM C33

CONCRETE SIDEWALK PLAN Scale: 1/2" = 1'-0"

CONCRETE PAVING - PEDESTRIAN SECTION Scale: 1 1/2" = 1'-0"

UNIT PAVING - PEDESTRIAN - SAND SET Scale: 1 1/2" = 1'-0"

Optional angled

rack installation

Distance from bike racks

0' (preferably within 50')

2' Minimum

3' Recommended

Bike rack typ.

SCALE 1" = 10'

Alexandria Department of Transportation

and Environmental Services

Bicycle and Pedestrian Program

Minimum 2' Recommended 3'

Notes:

SECTION PA-UP-001

- JOINTS TO BE SAND SWEPT, FILL ALL VOIDS BETWEEN PAVER, LIGHTLY VIBRATE AND RE-SAND

JOINTS AS NECESSARY

Parking meter

Pedestrian area:

Minimum 6' clear

Rack installation requires public space

Bike racks shall not impede pedestrian

traffic or interfere with permitted street

Covered locations within 50' of building

entrances are preferred.

SIDE BY SIDE RACKS:

SCALE 1/4" = 1'

SCALE:

February 2013

AS NOTED

JOSEPH J. PLUMPE Lic.No.000802 **%** 09.15.2020 人

AVANTI 550

CLIENT

AVANTI HG 550, LLC

SEAL/SIGNATURE

6416 GROVEDALE DR., SUITE 100-A ALEXANDRIA, VIRGINIA 22310

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550 SOUTH PICKETT STREET ALEXANDRIA, VA 22304 CITY OF ALEXANDRIA

ISSUE DATE

WATERPROOF SEALANT, COLOR TO MATCH CONCRETE, $\frac{1}{4}$ " THICK MIN. -BACKER ROD 1 PREMOLDED EXPANSION JOINT MATERIAL - SEE PLAN FOR EXPANSION JOINT LAYOUT - EXPANSION JOINT SHALL BE 30'-0" ON CENTER MAX.

CLEAN EDGES FOR ALL CUTS SAWCUT CONTROL JOINT SECTION Scale: 3" = 1'-0" \L3.01

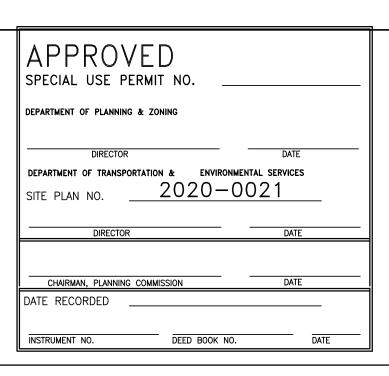
- COORDINATE TIMING OF SAWCUTTING TO VERIFY NO RAVELING OR PREMATURE CRACKING OF CONCRETE WILL OCCUR - SAWCUT JOINTS TO BE STRAIGHT - SAWCUT JOINTS TO HAVE - SEE PLAN FOR SAWCUT PATTERN - VERIFY SAW BLADE IS SHARP SECTION

NITTERHOUSE AQUAPAVE PAVER MODEL: QUANTITY: PER PLAN COLOR: PEWTER SIZE: 18" X 18" MANUFACTURER: NITTERHOUSE 859 CLEVELAND AVE CHAMBERSBURG, PA 17201 P: 717.267.4500 www.nitterhousemasonry.com

> CONTACT: MARK WILLIAMS INSTALL PER MANUFACTURERS SPECIFICATIONS CONTRACTOR TO VERIFY QUANTITIES

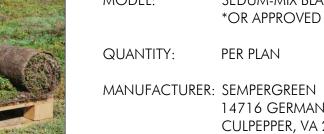
BICYCLE PARKING RACK PLACEMENT RACK PLACEMENT RULES: 5' from: Fire hydrant Crosswalk 4' from: Loading zone Bus stop Bus shelter Bus bench Min. 2', Rec. 3' from: 3' from: Parking meter Newspaper rack US mailbox Light pole Sign pole Driveway Tree space Trash can Utility meter Manhole Other street furniture Other sidewalk obstructions WALL SETBACKS For racks set parallel to a wall: Min. 24", Rec. 36" For racks set perpendicular to a Min. 28", Rec. 36" SIDE VIEW (Varies by manufacturer) SCALE 1/4" = 1'

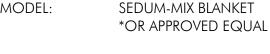
> BICYCLE PARKING RACK Scale: NTS L3.01





L3.01 Scale: 3" = 1'-0"





PER PLAN QUANTITY:

CONCRETE PAVING EXPANSION JOINT - TYPICAL

14716 GERMANNA HIGHWAY CULPEPPER, VA 22701 P: 540.339.5055 www.sempergreen.com

CONTACT: JOEP VAN VILSTERN

INSTALL PER MANUFACTURERS SPECIFICATIONS CONTRACTOR TO VERIFY QUANTITIES

GREEN ROOF PROD. INFO. Scale: NTS \L3.01

AQUAPAVE PAVER Scale: NTS L3.01

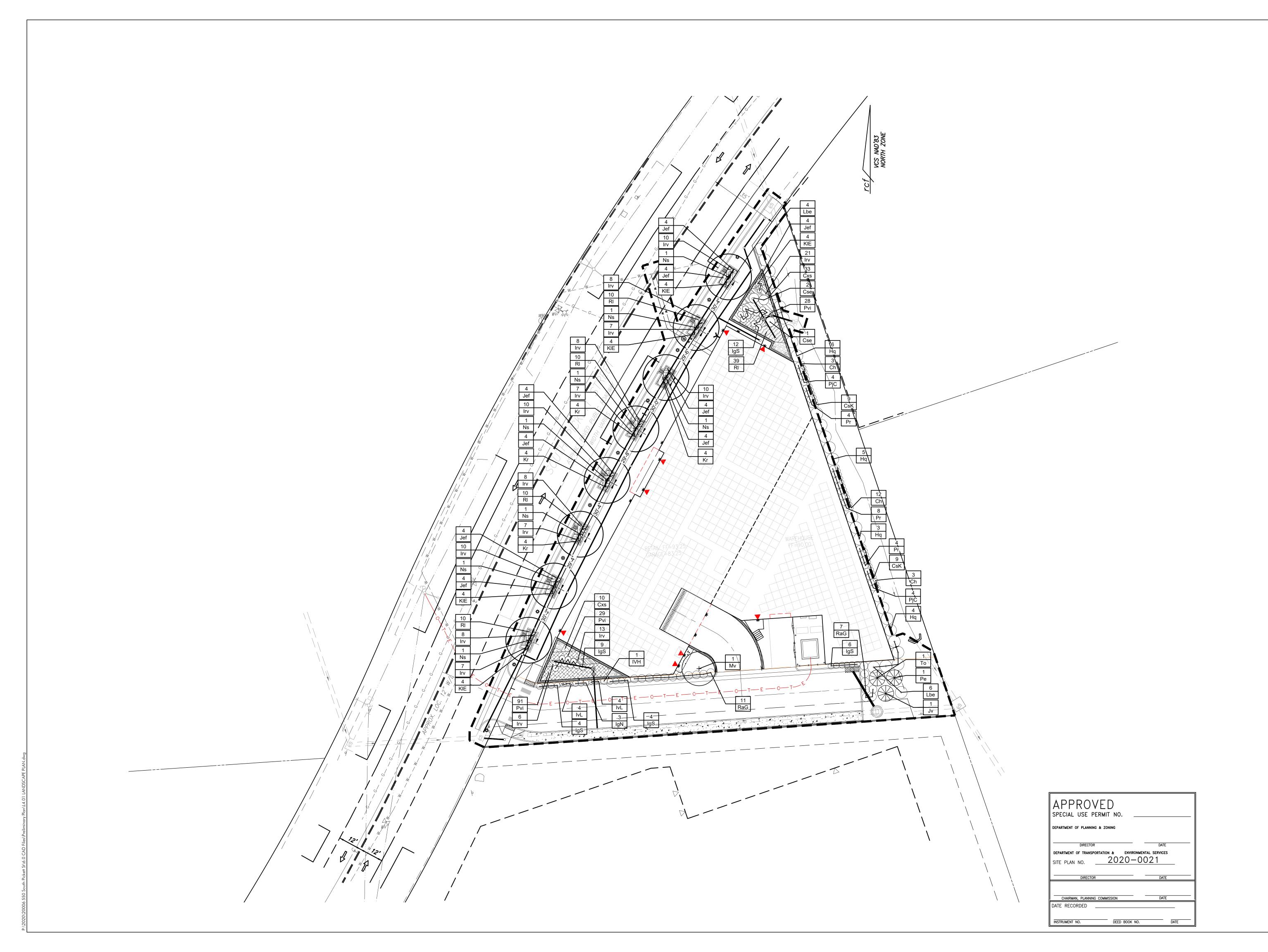
PROD. INFO.

SAWCUT JOINT

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D.DOVE

SHEET NUMBER



AVANTI 550

550 SOUTH PICKETT STREET ALEXANDRIA, VA 22304 CITY OF ALEXANDRIA

CLIENT

AVANTI HG 550, LLC

STUDIO39

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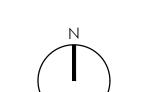
PROJECT NUMBER: 20006

CONTACT: D.DOVE

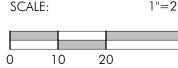
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ORIENTATION AND SCALE

DRAWN:



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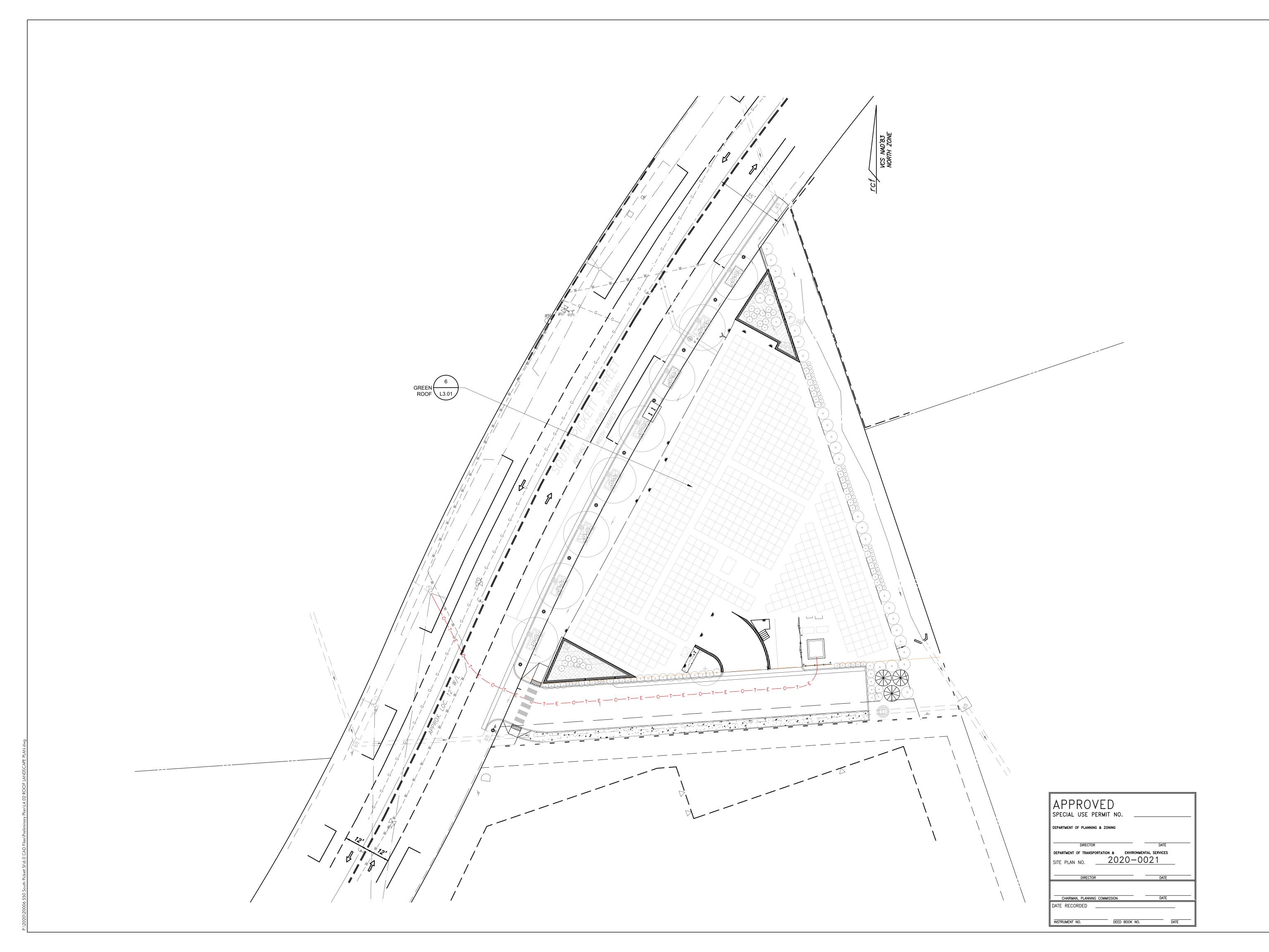
LANDSCAPE PLAN

SHEET NUMBER

L4.01

CONCEPT II

NOT RELEASED FOR CONSTRUCTION



AVANTI 550

550 SOUTH PICKETT STREET ALEXANDRIA, VA 22304 CITY OF ALEXANDRIA

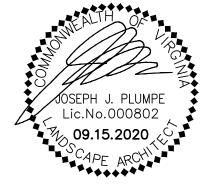
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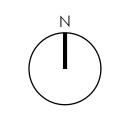
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DRAWN: AM

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SHEET TITLE

ROOF LANDSCAPE PLAN

SHEET NUMBER

L4.02

CONCEPT II

NOT RELEASED FOR CONSTRUCTION

PLANT SCHEDULE LANDSCAPE F	PLAN								CAN	NOPY	BIODIVERSIT
EVERGREEN TREES	QTY	BOTANICAL NAME	COMMON NAME	HEIGHT	CALIPER	SPREAD	INVASIVE	REMARKS	EACH (SF)	SUBTOTAL	GENUS
Jv	1	Juniperus virginiana	Eastern Red Cedar	6`-8`		3 1/2 - 5`		B&B, full to ground with good seasonal flush			25% (1/4)
Pe	1	Pinus echinata	Short Leaf Pine	6`-8`		3 1/2 - 5`		B&B, full to ground with good seasonal flush			25% (1/4)
То	1	Thuja occidentalis	American Arborvitae	6`-8`		3 1/2 - 5`		B&B, full to ground with good seasonal flush			25% (1/4)
SHADE TREES	QTY	BOTANICAL NAME	COMMON NAME	HEIGHT	CALIPER	SPREAD	INVASIVE	REMARKS			
Ns	8	Nyssa sylvatica	Sour Gum	14`-16`	3" - 3 1/2"			B&B, full uniform crown, symmetrical branching, full specimen			
ORNAMENTAL TREES	QTY	BOTANICAL NAME	COMMON NAME	HEIGHT	CALIPER	SPREAD	INVASIVE	REMARKS			
Mv	1	Magnolia virginiana	Sweet Bay	8`-10`	1 1/2" min.			B&B, multi-trunk, 3 trunk minimum, full symmetrical branching	250	250	25% (1/4)
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	HEIGHT	SPREAD	SIZE	SPACING	REMARKS			
Ch	18	Cornus hessei `Garden Glow`	Dogwood	18"-24"	18"-24"	#3	2` o.c.	INLIVIATING	25	450	20% (39/192)
Cse	3	Cornus sericea	Red Twig Dogwood	24"-36"	24"-36"	#5 cont.	6` o.c.	healthy, vigorous, well-rooted & established	25	75	20% (39/192)
CsK	18	Cornus sericea `Kelseyi`	Kelseyi Dogwood	18"-24"	18"-24"	#3 cont.	2` o.c.	full specimen, healthy, vigorous, well-rooted and established	25	450	20% (39/192)
Hq	18	Hydrangea quercifolia	Oakleaf Hydrangea	24"-36"	24"-36"	#5 cont.	6` o.c.	healthy, vigorous, well-rooted & established in container	25	450	9% (18/192)
IgN	3	llex glabra `Nordic`	Nordic Inkberry	18"-24"	18"-24"	#3 cont.	3` o.c.	healthy, vigorous, well-rooted & established in container	25	75	19% (38/192)
lgS	35	Ilex glabra `Shamrock`	Inkberry	24"-30"	18"-24"	#3 cont.	3` o.c.	healthy, vigorous, well-rooted & established in container	25	875	19% (38/192)
IVH	1	Itea virginica `Henry`s Garnet`	Henry`s Garnet Sweetspire	18"-24"	18"-24"	#3 cont.	4` o.c.	healthy vigorous, well-rooted & established in container	10	10	4% (9/192)
IvL	8	Itea virginica `Little Henry`	Virginia Sweetspire	18"-24"	18"-24"	#3 cont.	2` o.c.	healthy vigorous, well-rooted & established in container	10	80	4% (9/192)
Kr	16	Kalmia angustifolia `Rubra`	Sheep Laurel	15"-18"	15"-18"	#2 cont.	3` o.c.				18% (36/192)
KIE	20	Kalmia latifolia `Elf`	Dwarf Mountain Laurel	15"-18"	15"-18"	#2 cont.	3` o.c.	healthy vigorous, well-rooted & established in container			18% (36/192)
Lbe	10	Lindera benzoin	Spicebush	24"-36"	24"-36"	#5 cont.	6` o.c.	healthy vigorous, well-rooted & established in container	25	250	5% (10/192)
PjC	8	Pieris japonica `Compacta`	Compact Pieris	24"-30"	18"-24"	#3 cont.	4` o.c.	healthy vigorous, well-rooted & established in container	25	200	12% (24/192)
Pr	16	Pieris ryukuensis 'Temple Bells'	Temple Bells Pieris	24"-30"	18"-24"	#3 cont.	4` o.c.		25	400	12% (24/192)
RaG	18	Rhus aromatica `Gro-Low`	Gro-Low Fragrant Sumac	12"-15"	15"-18"	#3 cont.	4` o.c.	4` o.c., full specimen, healthy, vigorous, well-rooted and established	25	450	9% (18/192)
PERENNIALS, ORNAMENTAL GRASSES AND FERNS	QTY	BOTANICAL NAME	COMMON NAME	CONT.	COLOR	SPACING	INVASIVE	REMARKS	TOTAL	3,840	
RI	77	Rudbeckia laciniata	Cutleaf Coneflower	#1 cont.	yellow	18" o.c.		full specimen, healthy, vigorous, well-rooted and established			
Sau	2	Senecio aureus	Golden Ragwort	#1 cont.	yellow	12" o.c.		full specimen, healthy, vigorous, well-rooted and established			
WETLAND PLANTS	QTY	BOTANICAL NAME	COMMON NAME	CONT.	COLOR	SPACING	INVASIVE	REMARKS			
VVETEANDILANIO	WII	DO LAINICAL INAIVIL	COMMON NAME	CONT.	COLOR	OF ACING	IIIVASIVE	INCIVICINA			

#1 cont.

#1 cont.

#1 cont.

#1 cont. | purple

18" o.c.

24" o.c.

18" o.c.

43 Carex stricta

140 Iris versicolor

Juncus effusus

147 Peltandra virginica

Tussock Sedge

Blue Flag

Soft Rush

Arrow Arum

A) STANDARD LANDSCAPE PLAN NOTES FOR ALL PLANS REQUIRING APPROVAL:

THE FOLLOWING NOTES SHALL BE PROVIDED ON LANDSCAPE PLAN SUBMISSIONS FOR ALL PROJECTS THAT REQUIRE APPROVAL BY THE CITY AS OUTLINED IN CHAPTER 3 OF THE CITY'S 2019 LANDSCAPE GUIDELINES:

1)THE PROPERTY OWNER AND/OR APPLICANT, SPECIFIER, CONTRACTOR AND INSTALLER OF PLANT MATERIAL ARE RESPONSIBLE FOR UNDERSTANDING AND ADHERING TO THE STANDARDS SET FORTH IN THE MOST RECENT VERSION OF THE CITY OF ALEXANDRIA LANDSCAPE GUIDELINES AND APPLICABLE CONDITIONS OF APPROVAL. ALL QUESTIONS REGARDING APPLICATION OF, OR ADHERENCE TO, THE STANDARDS AND/OR CONDITIONS OF APPROVAL SHALL BE DIRECTED TO THE CITY PRIOR TO COMMENCEMENT OF DEMOLITION, CONSTRUCTION, OR ANY LAND DISTURBING ACTIVITY.

2)THE CITY-APPROVED LANDSCAPE PLAN SUBMISSION, INCLUDING PLANT SCHEDULE, NOTES AND DETAILS SHALL BE THE DOCUMENT USED FOR INSTALLATION PURPOSES AND ALL PROCEDURES SET FORTH IN THE LANDSCAPE GUIDELINES MUST BE FOLLOWED.

3)THE CONTRACTOR SHALL NOT INTERFERE WITH ANY TREE PROTECTION MEASURES OR IMPACT ANY EXISTING VEGETATION IDENTIFIED TO BE PRESERVED PER THE APPROVED TREE AND VEGETATION PROTECTION PLAN.

4)ANY CHANGES, ALTERATIONS OR MODIFICATIONS TO THE SITE CONDITIONS THAT AFFECT VEGETATION PROTECTION ZONES WILL REQUIRE AN AMENDMENT TO THE APPROVED TREE AND VEGETATION PROTECTION PLAN AND/OR DETAILS.

5)INSTALLATION OF PLANT MATERIAL MAY ONLY OCCUR DURING THE PLANTING SEASONS IDENTIFIED IN THE LANDSCAPE GUIDELINES.

6)IN LIEU OF MORE STRENUOUS SPECIFICATIONS, ALL LANDSCAPE RELATED WORK SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE CURRENT AND MOST UP-TO-DATE EDITION (AT TIME OF CONSTRUCTION) OF LANDSCAPE SPECIFICATION GUIDELINES AS PRODUCED BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF MARYLAND, DISTRICT OF COLUMBIA AND VIRGINIA; GAITHERSBURG, MARYLAND.

7)SUBSTITUTIONS TO THE APPROVED PLANT MATERIAL SHALL NOT OCCUR UNTIL WRITTEN APPROVAL IS PROVIDED BY THE CITY.

8)MAINTENANCE FOR THIS PROJECT SHALL BE PERFORMED BY THE OWNER, APPLICANT, SUCCESSOR(S) AND/OR ASSIGN(S) IN PERPETUITY AND IN COMPLIANCE WITH CITY OF ALEXANDRIA LANDSCAPE GUIDELINES AND AS CONDITIONED BY PROJECT APPROVAL, AS APPLICABLE.

B) STANDARD LANDSCAPE PLAN NOTES FOR DEVELOPMENT SITE PLANS:

IN ADDITION TO THE NOTES PROVIDED ABOVE, THE FOLLOWING NOTES SHALL BE PROVIDED ON LANDSCAPE PLAN SUBMISSIONS FOR ALL DSP/DSUP PROJECTS:

1)THE APPROVED METHOD(S) OF PROTECTION MUST BE IN PLACE FOR ALL VEGETATION TO BE PRESERVED ON-SITE AND ADJACENT TO THE PROJECT SITE PURSUANT TO THE APPROVED TREE AND VEGETATION PROTECTION PLAN AND DETAILS PRIOR TO COMMENCEMENT OF DEMOLITION, CONSTRUCTION, OR ANY LAND DISTURBANCE. THE APPLICANT SHALL NOTIFY THE PLANNING & ZONING (P&Z) PROJECT MANAGER ONCE THE TREE PROTECTION METHODS ARE IN PLACE. NO DEMOLITION, CONSTRUCTION, OR LAND DISTURBANCE MAY OCCUR UNTIL AN INSPECTION IS PERFORMED BY THE CITY AND WRITTEN CONFIRMATION IS PROVIDED BY THE CITY WHICH VERIFIES CORRECT INSTALLATION OF THE TREE PROTECTION MEASURES.

2)THE APPLICANT MUST CONTACT THE P&Z PROJECT MANAGER PRIOR TO COMMENCEMENT OF LANDSCAPE INSTALLATION/PLANTING OPERATION TO SCHEDULE A PRE-INSTALLATION MEETING. THE MEETING SHOULD BE HELD BETWEEN THE APPLICANT'S GENERAL CONTRACTOR, LANDSCAPE CONTRACTOR, LANDSCAPE ARCHITECT, THE P&Z PROJECT MANAGER AND THE CITY ARBORIST (AS APPLICABLE) TO REVIEW THE SCOPE OF INSTALLATION PROCEDURES AND PROCESSES DURING AND AFTER INSTALLATION.

3)THE FOLLOWING INFORMATION SHALL BE PROVIDED TO THE P&Z PROJECT MANAGER AT LEAST FIVE (5) BUSINESS DAYS PRIOR TO THE LANDSCAPE PRE-INSTALLATION MEETING: 1) A LETTER THAT CERTIFIES THAT THE PROJECT LANDSCAPE ARCHITECT PERFORMED PRE-SELECTION TAGGING FOR ALL TREES PROPOSED WITHIN THE PUBLIC RIGHT OF WAY AND ON PUBLIC LAND PRIOR TO INSTALLATION. THIS LETTER MUST BE SIGNED AND SEALED BY THE PROJECT LANDSCAPE ARCHITECT, AND 2) A COPY OF THE SOIL BULK DENSITY TEST REPORT VERIFYING THAT MAXIMUM COMPRESSION RATES ARE MET.

9)AS-BUILT DRAWINGS FOR THIS LANDSCAPE AND/OR IRRIGATION/WATER MANAGEMENT SYSTEM WILL BE PROVIDED IN COMPLIANCE WITH CITY OF ALEXANDRIA LANDSCAPE GUIDELINES, THE CITY CODE OF ORDINANCES, AND ALL APPLICABLE PLAN PREPARATION CHECKLISTS. AS-BUILT DRAWINGS SHALL INCLUDE CLEAR IDENTIFICATION OF ALL VARIATION(S) AND CHANGES FROM APPROVED DRAWINGS INCLUDING LOCATION, QUANTITY AND SPECIFICATION OF ALL PROJECT ELEMENTS.



CITY OF ALEXANDRIA, VIRGINIA STANDARD LANDSCAPE DETAILS



THE INFORMATION SHOWN HEREIN THIS DOCUMENT IS FOR GENERAL GUIDANCE ONLY AND IS NOT INTENTED FOR CONSTRUCTION PURPOSES. ITS USE SHALL NOT RELIEVE THE DESIGN PROFESSIONAL OR CONTRACTOR OF ANY LEGAL RESPONSIBILITY.

Urce: CITY OF ALEXANDRIA	_ ,	STANDARD LANDSCAPE			
coved by:	PLAN NOTES				
I OF I	Date drawn: 01/01/19	LD 016			

	l e	stablistieu			
CANOPY COVER	ANALYSIS		SUBTOTAL (S.F.)		
TOTAL SITE AREA			32,987		
TREE COVER REQUIRED	(25%)	8,247			
EXISTING CANOPY COVE	IR .	4,515 (13.70%)			
REMOVED CANOPY COV	ER		- 4,515		
PRESERVED CANOPY CO	OVER	0			
PROPOSED CANOPY CO	VER	3,840			
TOTAL CANOPY COVER			3,840 (11.64%)	•	

full specimen, healthy,

full specimen, healthy,

full specimen, healthy, vigorous, well-rooted and

full specimen, healthy, vigorous, well-rooted and

established

established

established

vigorous, well-rooted and

vigorous, well-rooted and

NATIVE PLANT STANDARDS							
PLANT TYPE REGIONAL/LOCALLY NATIVE (%) EASTERN US NATIVE (%)							
STANDARD TREES	100%	100%					
EVERGREEN SHRUBS	75%	75%					
DECIDUOUS SHRUBS	76%	100%					



AVANTI 550

BIODIVERSITY STANDARDS

SPECIES

25% (1/4)

25% (1/4)

25% (1/4)

25% (1/4)

9% (18/192)

2% (3/192)

9% (18/192)

9% (18/192)

2% (3/192)

18% (35/192)

.5% (1/192)

4% (8/192)

8% (16/192)

10% (20/192)

5% (10/192)

4% (8/192)

8% (16/192)

9% (18/192)

550 SOUTH PICKETT STREET ALEXANDRIA, VA 22304 CITY OF ALEXANDRIA

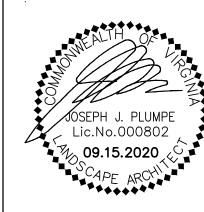
CLIENT

AVANTI HG 550, LLC

STUDIO39
LANDSCAPE ARCHITECTURE, P.C.

6416 GROVEDALE DR., SUITE 100-A ALEXANDRIA, VIRGINIA 22310 703.719.6500 | STUDIO39.COM

SEAL/SIGNATURE



ISSUE DATE

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PROJECT NUMBER: 20006

CONTACT: D.DOVE

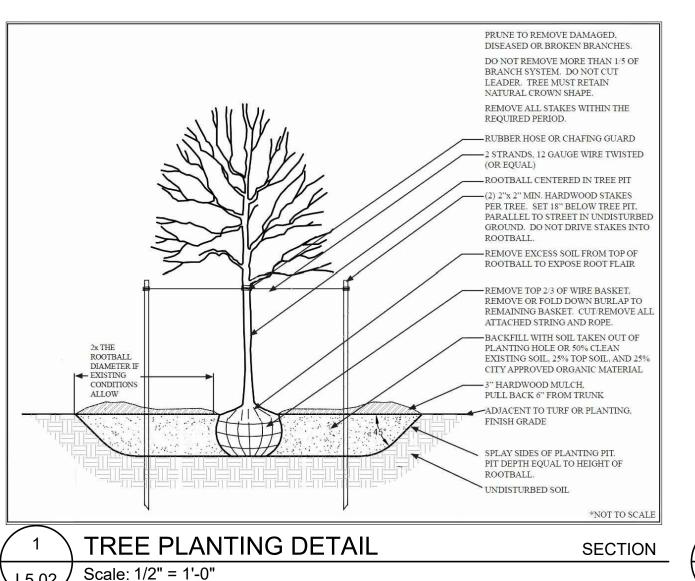
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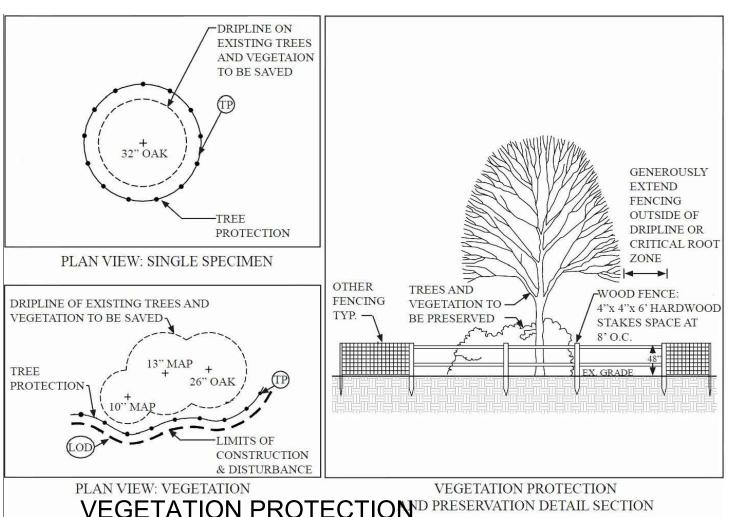
ORIENTATION AND SCALE

APPROVED/CHECKED:

| | PLANT SCHEDULE

Sheet Number





AND PRESERVATION DETAIL

Scale: 1/2" = 1'-0"

L5.02

SPECIMEN SHRUB

BURLAP FROM TOP,

METAL BASKETS

BOUND PLANTS

(SEE PLANS)

SOIL MIX

NOTES:

-3" LAYER OF SHREDDED

HARDWOOD BARK MULCH

TROOTBALL - REMOVE $\frac{1}{3}$ OF

REMOVE ALL ROPES AND

TAMP EXISTING SOIL AT 85%

OPTIMUM MOISTURE CONTENT

SCARIFY ROOTS OF ROOT

PLANT SPACING VARIES

ALL SHRUB BEDS TO BE

ALL EXISTING SOIL TO

SOIL MIX BACK FILL

DEPTH REQUIRED FOR

& TAGS FROM PLANTS

& WEAK BRANCHES

PRUNE ALL BROKEN. DISEASED

COMPLETELY EXCAVATED OF

- REMOVE ALL STRINGS, RIBBONS

SPECIMEN TREE BLACK RUBBER HOSE -12 GAUGE GALVANIZED WIRE DOUBLE STRAND TWISTED -ROOT BALL - REMOVE 1/3 OF BURLAP FROM TOP, REMOVE ALL ROPES/ METAL BASKETS -3" SAUCER 3" LAYER OF SHREDDED HARDWOOD BARK MULCH -PLANTING SOIL MIX -2" x 2" x 18" HARDWOOD GUY STAKES, 3 PER TREE, 120° APART, DRIVEN AT 45° -6" HT. MOUND -UNDISTURBED SUBGRADE - STAKES TO BE DRIVEN UNTIL FIRMLY SET INTO UNDISTURBED GRADE - CONTRACTOR TO REGRADE, SOD OR HYDROSEED & STRAW MULCH ALL AREAS 2 1/2 TIMES TREE ROOTBALL

TREE GUYING PLANTING - SPECIMEN TREE

MULTI-STEMMED SPECIMEN TREE BLACK RUBBER HOSE 12 GAUGE GALVANIZED WIRE DOUBLE STRAND TWISTED -3" LAYER OF SHREDDED HARDWOOD BARK MULCH ─ 3" SAUCER $-ROOT BALL - REMOVE \frac{1}{3} OF$ BURLAP FROM TOP: REMOVE ALL ROPES/ METAL BASKETS -PLANTING SOIL MIX -FLAGGING -2" x 2" x 18" HARDWOOD **GUY STAKES, 3 PER TREE** 120° APART, DRIVEN AT 45° -6" HT. MOUND -UNDISTURBED SUBGRADE - STAKES TO BE DRIVEN UNTIL FIRMLY SET INTO 2 1/2 TIMES TREE ROOTBALL UNDISTURBED GRADE

REE GUYING PLANTING - MULTI-STEMMEDION

PLANTING MIX NOTES:

TOP SOIL THAT WILL SUSTAIN PLANT GROWTH.

(FOUR PERCENT) ORGANIC MATTER

REQUIREMENTS.

CONTACT THEM AT:

2790 WHITTEN ROAD

MEMPHIS, TN 38133 1-800-264-4522

2. THE TOP SOIL SHALL NOT BE LACKING IN POTASSIUM

THE RECOMMENDED PLANTING MEDIUM SHOULD CONTAIN GOOD

PHOSPHORUS, MAGNESIUM OR CALCIUM. THE TOP SOIL SHALL

LOAM WITH WELL AGGREGATED CLAYS AND A MINIMUM OF 4%

NOT CONTAIN ANY MATERIALS TOXIC TO PLANT GROWTH.

4. THE SOILS PH RANGE SHOULD BE WITHIN 5.5 TO 7.0 AND

6. IF A LOCAL, REPUTABLE TESTING COMPANY CANNOT BE

PLAN 7. THE LAB SHALL PERFORM AN S1A TEST AND SUBMIT THE RESULTS

A&L ANALYTICAL LABORATORIES, INC.

TO STUDIO 39 LANDSCAPE ARCHITECTURE, PC.

3. THE TOP SOIL SHALL BE A SANDY CLAY LOAM OR A SILTY CLAY

ADJUSTED AS NECESSARY FOR INDIVIDUAL PLANT SPECIES

5. A SOIL TEST SHALL BE PERFORMED BY A FULL-SERVICE TESTING

COMPANY AND THE RESULTS SHALL BE PROVIDED TO THE

LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF PLANTING

EMPLOYED, A&L LABS IS AVAILABLE TO CONDUCT THE TESTING.

CLIENT AVANTI HG 550, LLC 6416 GROVEDALE DR., SUITE 100-A ALEXANDRIA, VIRGINIA 22310 703.719.6500 | STUDIO39.COM

AVANTI 550

CITY OF ALEXANDRIA

550 SOUTH PICKETT STREET ALEXANDRIA, VA 22304

SEAL/SIGNATURE

JOSEPH J. PLUMPE Lic.No.000802 _γ 09.15.2020

ISSUE DATE

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PROJECT NUMBER: CONTACT: D.DOVE DRAWN: APPROVED/CHECKED:

PLANTING NOTES (CONT.)

ASSOCIATION, AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS, THE INTERNATIONAL SOCIETY OF ARBORICULTURE, AND THE AMERICAN NATIONAL STANDARDS INSTITUTE.

> APPROVED SPECIAL USE PERMIT DEPARTMENT OF PLANNING & ZON 2020-0021

SPECIMEN PLANTS 3" LAYER OF SHREDDED HARDWOOD BARK MULCH PLANT SPACING CHART -BULB DEPTH 6-8" AS SPECIFIED ON PLANT LIST FERTILIZER & CHEMICAL NUMBER OF PLANTS ADDITIVE TO BE PLACED AT PER SQUARE FOOT 6-8" DEPTH (AT ROOT ZONE) 6" o.c. 5 1/4" o.c. - SOIL MIX: USE $\frac{1}{3}$ PINE FINES 6 7/8" o.c. 2.60 8" o.c. (GROUND) OR EARTH LIFE, 1.66 10" o.c. 8 5/8" o.c. ¹/₆ PERLITE, ¹/₂ TOP SOIL 10 3/8" o.c. 12" o.c. 1.15 SLOPE BOTTOM OF PREPARED 0.74 BEDS $\frac{1}{4}$ " MIN. TO NATURAL 15" o.c. 13" o.c. LOW POINT 18" o.c. 15 5/8" o.c. 0.51 SUBGRADE 0.29 20 3/4" o.c. 0.18 30" o.c. 26" o.c. 0.13 31 1/8" o.c. 42" o.c. 0.09 36 3/8" o.c. 2% SLØPE 0.07 41 5/8" o.c.

Scale: 1/4" = 1'-0"

ANNUAL & PERENNIAL PLANTING Scale: 1" = 1'-0" L5.02 /

TRIANGULAR SPACING FOR SHRUBS -Scale: 1" = 1'-0" L5.02

SECTION

L5.02

OF BULBS WHEN PLANTED

GROUND COVERS - BULBS AND PERENNIALS

SECTION

- MIX IN BONE MEAL AT BOTTOM

SECTION

PLANTING NOTES:

Scale: 1/2" = 1'-0'

SHRUB PLANTING

2 1/2 TIMES SHRUB ROOTBALLS

- 1. PLANT MATERIAL SHALL BE FURNISHED AND INSTALLED AS INDICATED, INCLUDING ALL LABOR, MATERIALS, PLANTS, EQUIPMENT, INCIDENTALS, AND CLEAN-UP.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLANTING AT CORRECT GRADES AND ALIGNMENT. LAYOUT TO BE APPROVED BY OWNERS' REPRESENTATIVE PRIOR TO INSTALLATION.
- 3. PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY; HAVE NORMAL GROWTH HABITS, WELL-DEVELOPED DENSELY FOLIATED BRANCHES, AND VIGOROUS ROOT SYSTEMS; AND BE FREE FROM DEFECTS AND INJURIES.
- 4. CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO GROWTH OF PLANT MATERIAL 5. ALL PLANT MATERIAL SHALL BE GUARANTEED BY THE CONTRACTOR TO BE IN VIGOROUS GROWING CONDITION. PROVISION SHALL BE MADE FOR A
- GROWTH GUARANTEE OF AT LEAST ONE YEAR FROM THE DATE OF ACCEPTANCE FOR TREES, SHRUBS, GROUNDCOVER AND PERENNIALS. REPLACEMENTS SHALL BE MADE AT THE BEGINNING OF THE FIRST SUCCEEDING PLANTING SEASON. ALL REPLACEMENTS SHALL HAVE A GUARANTEE EQUAL TO THAT STATED ABOVE. 6. PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY IF/WHEN PRACTICAL. IN THE EVENT THAT THIS IS NOT POSSIBLE, THE CONTRACTOR
- SHALL PROTECT STOCK NOT PLANTED. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE-DAY PERIOD AFTER DELIVERY. ANY PLANTS NOT INSTALLED DURING THIS PERIOD SHALL BE REJECTED, UNLESS OWNER AND CONTRACTOR PROVIDE OTHERWISE BY WRITTEN AGREEMENT.
- 7. QUALITY AND SIZE OF PLANTS, SPREAD OF ROOTS, AND SIZE OF ROOT BALL SHALL BE IN ACCORDANCE WITH THE MOST RECENT VERSION OF ANSI Z60 "AMERICAN STANDARD FOR NURSERY STOCK" PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. 8. ALL PLANTS SHALL BE PLANTED IN AMENDED TOP SOIL THAT IS THOROUGHLY WATERED AND TAMPED AS BACK-FILLING PROCESSES. PLANTING MIX TO BE
- AS SHOWN ON PLANTING DETAILS. LARGE PLANTING AREAS TO INCORPORATE FERTILIZER AND SOIL CONDITIONERS AS STATED IN PLANTING SPECIFICATIONS. 9. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES. PLANTS SHALL BE HANDLED FORM
- THE BOTTOM OF THE BALL ONLY. 10. PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE
- AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. PLANTS SHALL NOT BE INSTALLED IN TOP SOIL THAT IS IN A MUDDY OR FROZEN CONDITION. ALL PLANT MATERIAL SHALL BE SPRAYED WITH "WILT-PRUF" OR EQUAL AS PER MANUFACTURER'S INSTRUCTIONS.
- 11.NO PLANT, EXCEPT GROUND COVERS, SHALL BE PLANTED LESS THAN TWO FEET FROM EXISTING STRUCTURES AND SIDEWALKS. 12. SET ALL PLANTS PLUMB AND STRAIGHT. SET AT SUCH LEVEL THAT A NORMAL OR NATURAL RELATIONSHIP TO THE GROUND IF THE PLANT WITH THE GROUND SURFACE WILL BE ESTABLISHED. LOCATE THE PLANT IN THE CENTER OF THE PIT

13. ALL INJURED ROOTS SHALL BE PRUNED TO MAKE CLEAN ENDS BEFORE PLANTING UTILIZING CLEAN, SHARP TOOLS. IT IS ADVISABLE TO PRUNE

- APPROXIMATELY 1/3 OF THE GROWTH OF LARGE TREES (2" CALIPER AND GREATER) BY THE REMOVAL OF SUPERFLUOUS BRANCHES, THOSE WHICH CROSS, THOSE WHICH RUN PARALLEL, ETC. MAIN LEADER OF TREES SHALL NOT BE CUT BACK. LONG SIDES BRANCHES SHALL BE SHORTENED. 14. EACH TREE AND SHRUB SHALL BE PRUNED IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE TO PRESERVE THE NATURAL CHARACTER OF PLANT. PRUNING SHALL BE DONE WITH CLEAN, SHARP TOOLS.
- 15. TREES SHALL BE SUPPORTED IMMEDIATELY AFTER PLANTING. ALL TREES 6" AND GREATER IN CALIPER SHALL BE GUYED. SMALLER TREES SHALL BE STAKED. GUYING WIRES AND STAKES SHALL BE INSTALLED AS INDICATED. THE LANDSCAPE CONTRACTOR SHALL REMOVE STAKING, GUYING AND TREE WRAP AT THE END OF ONE YEAR MAINTENANCE AND GUARANTEE PERIOD.
- 16. ALL PLANTING BEDS SHALL BE MULCHED WITH 3" LAYER OF MULCH
- 17.NEW PLANTING AREAS AND SOD SHALL BE ADEQUATELY WATERED TO ESTABLISH THE PROPOSED PLANTS AND LAWN. 18. ALL PLANTS SHOWN ON THE APPROVED LANDSCAPE PLAN SHALL BE INSTALLED, INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT OR HIS REPRESENTATIVE. THE LANDSCAPE ARCHITECT SHALL TAKE INTO ACCOUNT SEASONAL CONSIDERATIONS IN THIS REGARD. TREES, SHRUBS, VINES AND GROUNDCOVER AS REQUIRED BY OR ASSOCIATED WITH A SUBDIVISION OR SITE PLAN APPROVED BY THE PLANNING AUTHORITIES SHALL BE INSTALLED DURING THE FOLLOWING PLANTING SEASONS: LAWNS: 03/15 TO 06/15 AND 09/15 TO 12/01. THE FOLLOWING TREE VARIETIES SHALL NOT BE PLANTED DURING THE FALL PLANTING SEASON DUE TO THE HAZARDS ASSOCIATED WITH PLANTING THESE TREES IN THIS SEASON: ACER RUBRUM POPULUS SPP.; BETULA SPP. PRUNUS SPP.; CARPINUS SPP. PYRUS SPP.; CRATECUS SPP. QUERCUS SPP.; KOELREUTERIA PANICULATA SALIX SPP.; LIQUIDAMBAR STYRACIFLUA TILIA TOMENTOSA; LIRIODENDRON TULIPIFERA ZELKOVA; PLATANUS ACERIFOLIA; ANY PLANTING INSTALLED IN CONFLICT WITH THIS REQUIREMENT MUST RECEIVE WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO PLANTING. FAILURE TO COMPLY WITH THESE REQUIREMENTS WILL REQUIRE THE REMOVAL OF THE PLANTING IN QUESTION. THIS REQUIREMENT DOES NOT APPLY TO SEEDING OR SODDING OR PLANTINGS SPECIFICALLY FOR SOIL STABILIZATION PURPOSES. PLANTINGS ASSOCIATED WITH ANY LOT GIVEN A CERTIFICATE OF OCCUPANCY OUTSIDE THESE PERIODS SHALL BE PROVIDED DURING THE PREVIOUS OR NEXT APPROPRIATE SEASON.
- 19. ALL DISTURBED AREAS SHALL BE TREATED WITH 4" TOP SOIL SODDED OR SEEDED AS NOTED IN ACCORDANCE WITH PERMANENT STABILIZATION METHODS INDICATED ON SOIL EROSION AND SEDIMENT CONTROL SHEET.

- 20.CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL PLANT MAINTENANCE; INCLUDING SHRUBS AND GROUNDCOVER, AND SHALL MAINTAIN AREA IN A WEED AND DEBRIS FREE CONDITION THROUGHOUT THE ONE-YEAR GUARANTEE PERIOD. UNLESS OTHERWISE SPECIFIED.
- 21.CONTRACTOR SHALL LAYOUT AND CLEARLY STAKE ALL PROPOSED IMPROVEMENTS INCLUDED ON THIS PLAN. 22.CONTRACTOR TO VERIFY PLANT LIST TOTALS WITH QUANTITIES SHOWN ON PLAN. LANDSCAPE ARCHITECT SHALL BE ALERTED BY CONTRACTOR OF ANY
- DISCREPANCIES PRIOR TO FINAL BID NEGOTIATION. UNIT PRICES FOR ALL MATERIAL SHALL BE SUPPLIED TO THE OWNER AT BIDDING TIME. 23.ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE LANDSCAPE ARCHITECT. OWNER SHALL RECEIVE TAG FROM EACH PLANT SPECIES AND A LIST OF PLANT SUPPLIERS. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL MEET THE NORMAL REQUIREMENTS FOR THE VARIETY PER THE AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN (AAN). PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT.
- 24.SIZES SPECIFIED IN THE PLANT LIST ARE MINIMUM SIZES TO WHICH THE PLANTS ARE TO BE JUDGED. FAILURE TO MEET MINIMUM SIZE ON ANY PLANT WILL RESULT IN REJECTION OF THAT PLANT. 25.ALL PLANTS SHALL BE FRESHLY DUG, SOUND, HEALTHY, VIGOROUS, WELL BRANCHED, FREE OF DISEASE, INSECT EGGS, AND LARVAE, AND SHALL HAVE
- ADEQUATE ROOT SYSTEMS. 26.ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS AND ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE
- SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION. 27.GROUPS OF SHRUBS SHALL BE PLACED IN A CONTINUOUS MULCH BED WITH SMOOTH CONTINUOUS LINES. ALL MULCHED BED EDGES SHALL BE CURVILINEAR IN SHAPE FOLLOWING THE CONTOUR OF THE PLANT MASS. TREES LOCATED WITHIN FOUR FEET OF SHRUB BEDS SHALL SHARE SAME
- MULCH BED. 28.TREES SHALL BE LOCATED A MINIMUM OF 3' - 4' FROM WALLS AND WALKS WITHIN THE PROJECT. IF CONFLICTS ARISE BETWEEN ACTUAL SIZE OF AREA AND PLANS, CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT FOR RESOLUTION. FAILURE TO MAKE SUCH CONFLICTS KNOWN TO THE OWNER OR
- LANDSCAPE ARCHITECT WILL RESULT IN CONTRACTOR'S LIABILITY TO RELOCATE MATERIALS. 29.TREE STAKING AND GUYING SHALL BE DONE PER DETAILS. CONTRACTOR SHALL ENSURE THAT TREES REMAIN VERTICAL AND UPRIGHT FOR THE DURATION OF THE GUARANTEE PERIOD.
- 30.CROWN OF ROOT BALL SHALL BE HIGHER (AFTER SETTLING) THAN ADJACENT SOIL.
- 31.TAGS AND TWINE ARE TO BE REMOVED AND BURLAP IS TO BE ROLLED BACK ONE-THIRD ON ALL B&B PLANT MATERIAL. REMOVE BURLAP IF IT IS NON-BIODEGRADABLE. FOR STREET TREES TAGS, TWINE, CORD, BURLAP AND WIRE BASKET TO BE CUT 12" DOWN SIDE OF ROOT BALL AND REMOVED FROM PROJECT SITE.
- 32.SHRUBS AND GROUND COVERS SHALL BE TRIANGULARLY SPACED AT SPACING SHOWN ON PLANTING PLANS 33.SHADE TREES: HEIGHT SHALL BE MEASURED FROM THE CROWN OF THE ROOT BALL TO THE TOP OF MATURE GROWTH. SPREAD SHALL BE MEASURED TO THE END OF BRANCHING EQUALLY AROUND THE CROWN FROM THE CENTER OF THE TRUNK. MEASUREMENTS ARE NOT TO INCLUDE ANY TERMINAL GROWTH. SINGLE TRUNK TREES SHALL BE FREE OF "V" CROTCHES THAT COULD BE POINTS OF WEAK LIMB STRUCTURE OR DISEASE INFESTATION. SHRUBS: HEIGHT SHALL BE MEASURED FROM THE GROUND TO THE AVERAGE HEIGHT OF THE TOP OF THE PLANT. SPREAD SHALL BE MEASURED TO THE
- END OF BRANCHING EQUALLY AROUND THE SHRUB MASS. MEASUREMENTS ARE NOT TO INCLUDE ANY TERMINAL GROWTH 34.ALL SUBSTITUTIONS OF PLANT MATERIAL ARE TO BE REQUESTED IN WRITING TO THE LANDSCAPE ARCHITECT AND APPROVED BY THE OWNER. IF
- CONTRACTOR FAILS TO SUBMIT A WRITTEN REQUEST, IT WILL RESULT IN LIABILITY TO THE CONTRACTOR. 35.ALL CONTRACTORS SHALL BE REQUIRED TO COMPLETELY REMOVE ALL TRASH, DEBRIS AND EXCESS MATERIALS FROM THE WORK AREA AND THE PROPERTY, ESPECIALLY AT ALL CURB, GUTTERS AND SIDEWALKS DAILY DURING INSTALLATION.
- 36.DEAD PLANTS ARE TO BE REMOVED FROM THE JOB BY THE CONTRACTOR WEEKLY. CONTRACTOR SHALL MAINTAIN AN UPDATED, COMPREHENSIVE LIST OF ALL DEAD MATERIALS REMOVED FROM THE JOB SITE. A COPY OF THE LIST IS TO BE SUBMITTED TO THE OWNER AT THE END OF EVERY MONTH DURING THE CONTRACT PERIOD.
- 37.TOPSOIL REQUIRED FOR SOIL MIXES AND SPECIAL SEEDING AREAS SHALL BE PROVIDED BY LANDSCAPE CONTRACTOR. CONTRACTOR MUST LOAD, HAUL MIX, AND SPREAD ALL TOPSOIL AND OTHER SOIL ADDITIVES ARE REQUIRED.
- 38.CONTRACTOR SHALL GUARANTEE ALL LANDSCAPE IMPROVEMENTS, INCLUDING SEEDING, FOR ONE FULL YEAR AS REQUIRED BY THE SPECIFICATIONS. CONTRACTOR MUST CONTACT THE OWNER AT LEAST TEN WORKING DAYS IN ADVANCE TO SCHEDULE ACCEPTANCE INSPECTION(S). CONTRACTOR MUST REPLACE ALL DEAD OR UNACCEPTABLE PLANTS DURING THE FOLLOWING RECOMMENDED PLANTING SEASON.
- 39.THE SPECIFICATIONS FOR ALL WORK INCLUDED IN THIS CONTRACT SHALL BE LANDSCAPE SPECIFICATIONS GUIDELINES FOR BALTIMORE-WASHINGTON METROPOLITAN AREA, CURRENT EDITION, UNLESS OTHERWISE NOTED ON THESE PLANS.

Scale: 1/4" = 1'-0"

ARCHAEOLOGY NOTES 1. THE APPLICANT/DEVELOPER SHALL CALL ALEXANDRIA ARCHAEOLOGY (703/746-4399) TWO WEEKS BEFORE THE STARTING DATE OF ANY GROUND DISTURBANCE SO THAT A MONITORING AND INSPECTION SCHEDULE FOR CITY ARCHAEOLOGISTS CAN BE ARRANGED.

2. CALL ALEXANDRIA ARCHAEOLOGY IMMEDIATELY (703-746-4399) IF ANY BURIED STRUCTURAL REMAINS (WALLS WELL, 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.

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

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

1. ALL MATERIALS' SPECIFICATIONS SHALL BE IN ACCORDANCE WITH THE INDUSTRY STANDARD FOR GRADING PLANT MATERIAL - THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1).

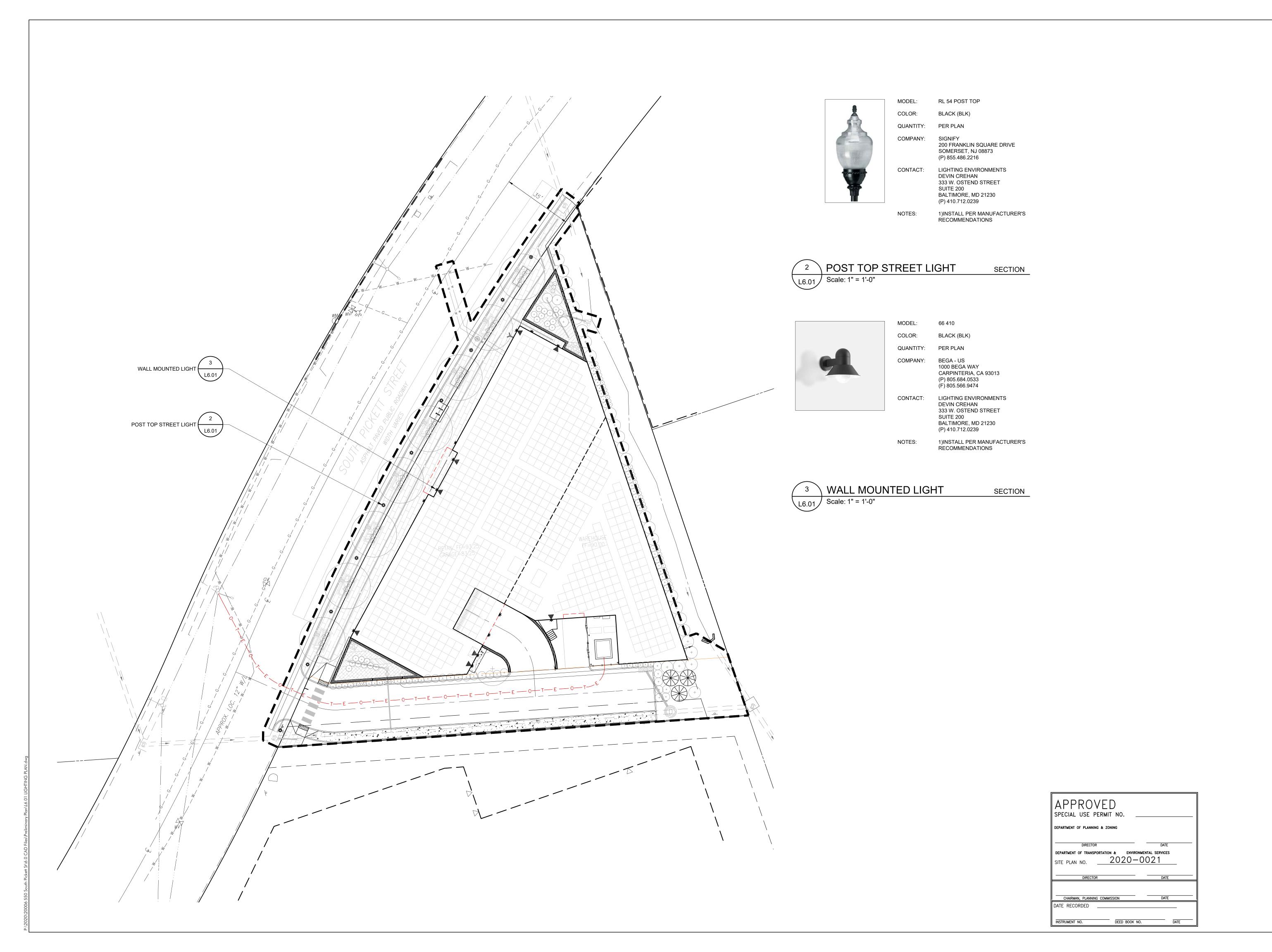
2. MAINTENANCE OF ALL TREES AND LANDSCAPE MATERIALS SHALL CONFORM TO ACCEPTED INDUSTRY STANDARDS SET FORTH BY THE LANDSCAPE CONTRACTORS

DEED BOOK NO.

ORIENTATION AND SCALE

LANDSCAPE NOTES **AND DETAILS**

SHEET NUMBER



AVANTI 550

550 SOUTH PICKETT STREET ALEXANDRIA, VA 22304 CITY OF ALEXANDRIA

CLIENT

AVANTI HG 550, LLC

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PROJECT NUMBER: 2000

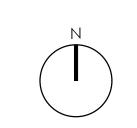
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APPROVED/CHECKED:

ORIENTATION AND SCALE

CONTACT:

DRAWN:



SCALE: 1"=20

SHEET TITLE

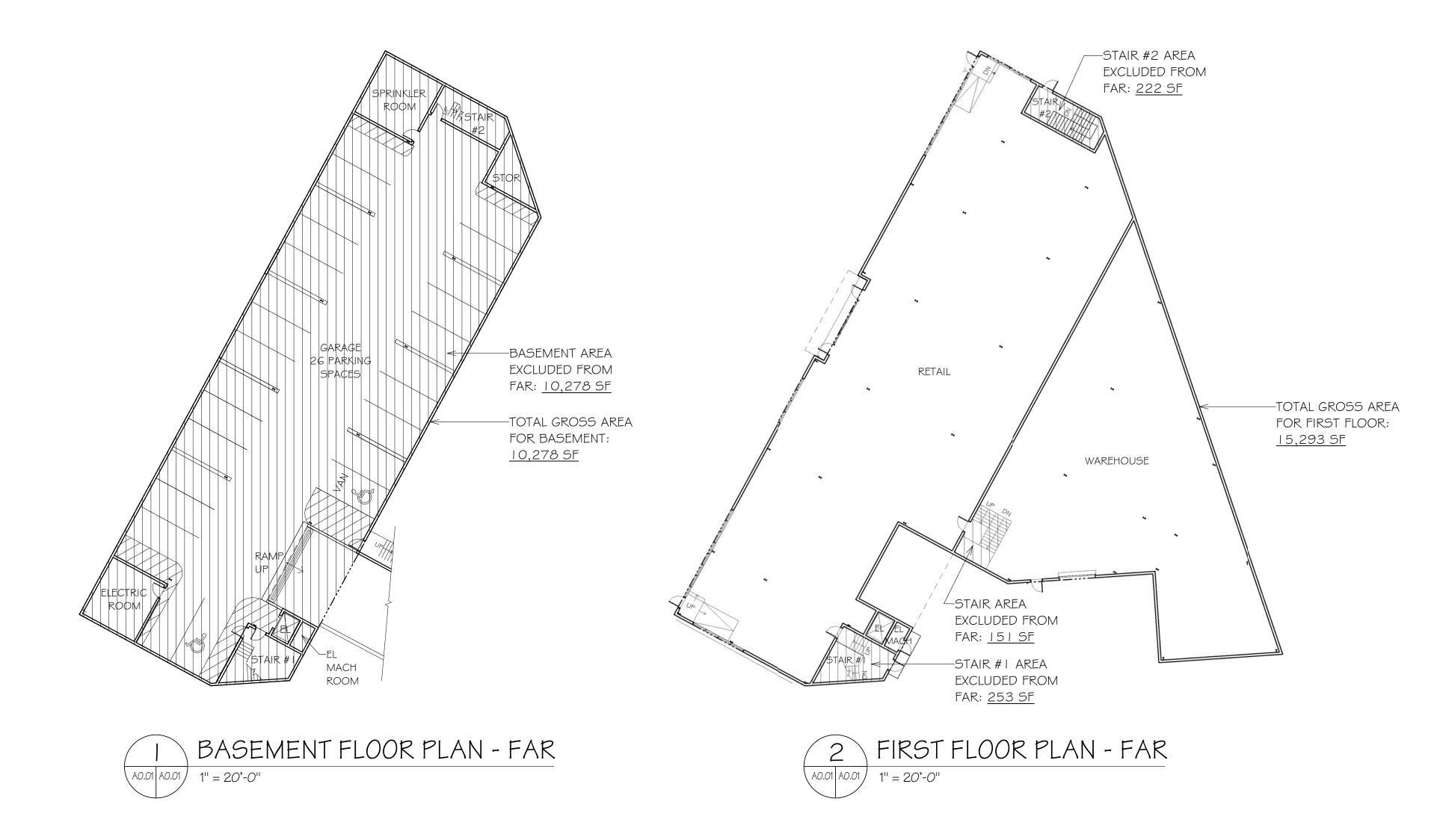
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LIGHTING PLAN

LICITING

Sheet number

L6.01



FAR Calculation

Property Area
Total Lot Area
FAR Allowed by Zone
Max Allowable Floor Area

32,987 sf 0.85 28,039 sf

Proposed Gross Floor Area Proposed Gross Area Allowable Exclusions Basement: 10,278 sf First Floor: 15,293 sf Basement: 10,278 sf First Floor: 626 sf

Total Gross: 25,571 sf Total Exclusions: 10,904 sf

Proposed Net Floor Area: 25,571sf - 10,904sf = 14,667sf

Cole&DennyArchitects

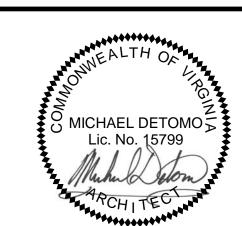
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703.684.5994 coleanddenny.com

Consultants

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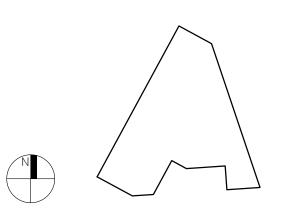
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Key Plan

Submission Set

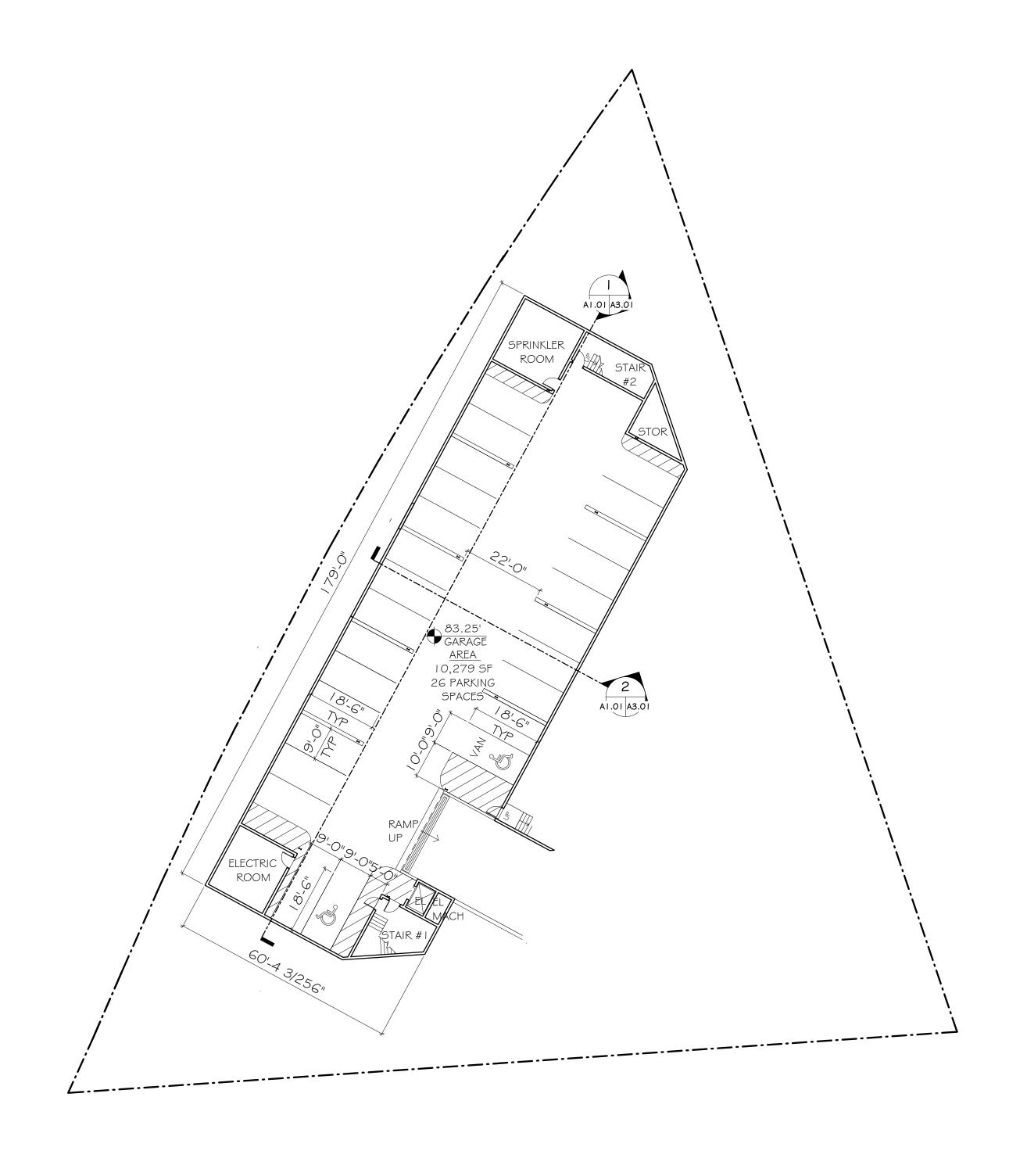
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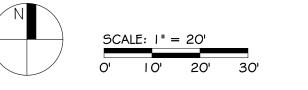
FAR - Floor Area Ratios

Preliminary Verification		09/15/2020
evisions		
No.	Revision	Date
Date	September 15, 2020	
Project No	. No. 19014	









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DEPARTMENT OF PLANNING & ZONING

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DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES

SITE PLAN NO. ______2020-0021

CHAIRMAN, PLANNING COMMISSION DATE

INSTRUMENT NO. DEED BOOK NO. DATE



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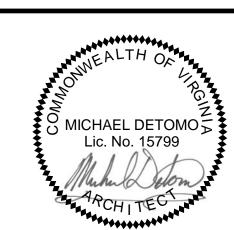
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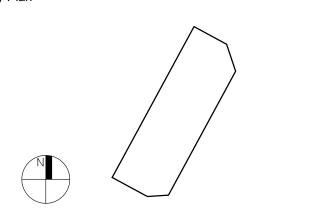
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Seal



Key Plan



Drawing
Basement Floor Plan

Submission Set

Preliminary Verification 09/15/2020

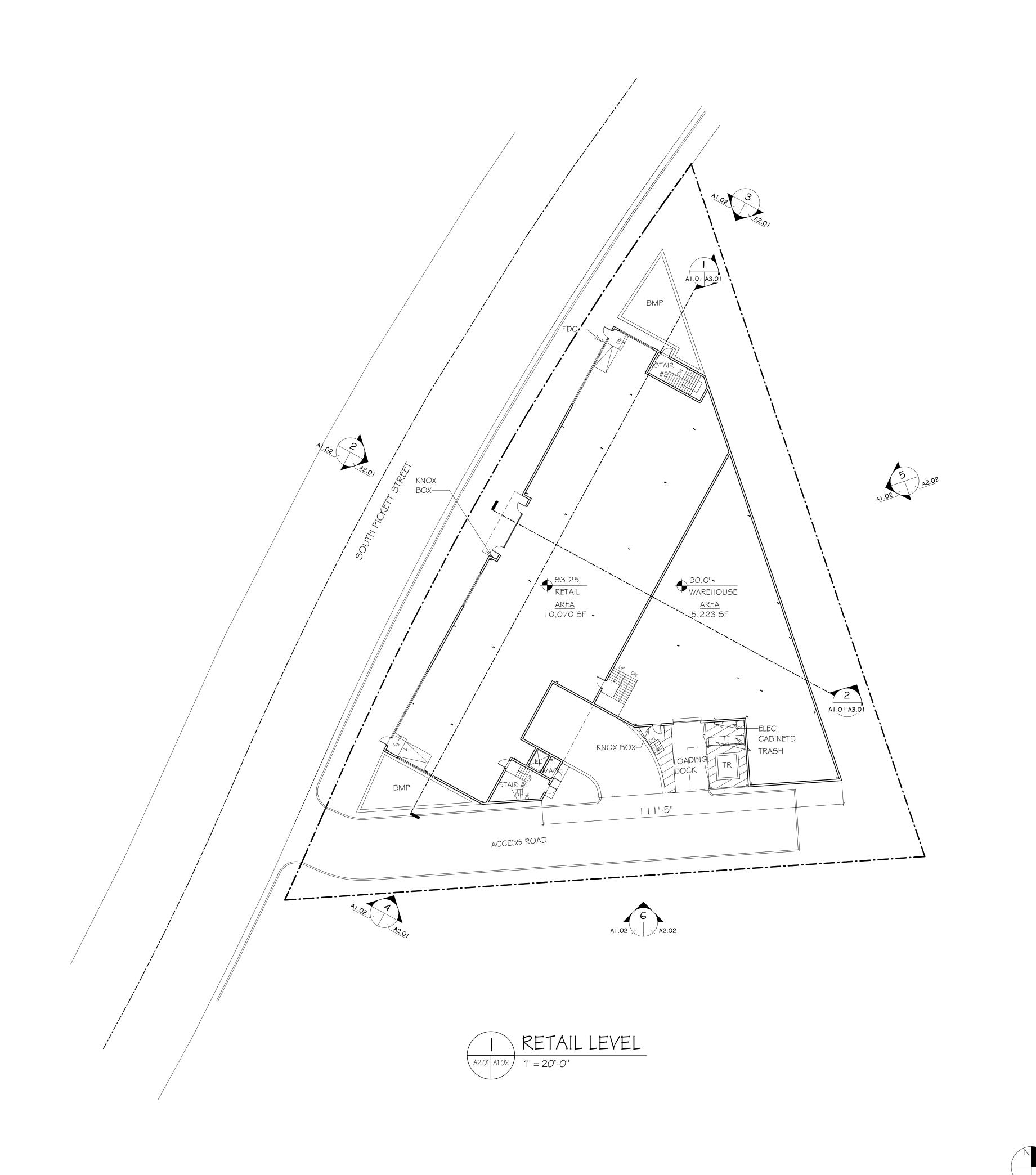
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No. Revision Date

Date September 15, 2020
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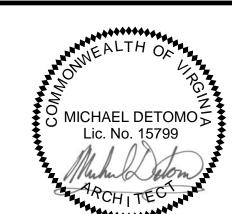
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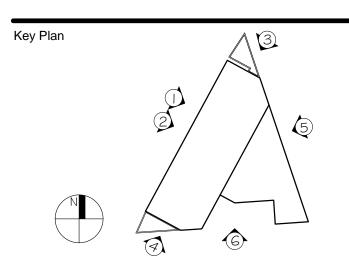
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Drawing
First Floor Plan

Submission Set

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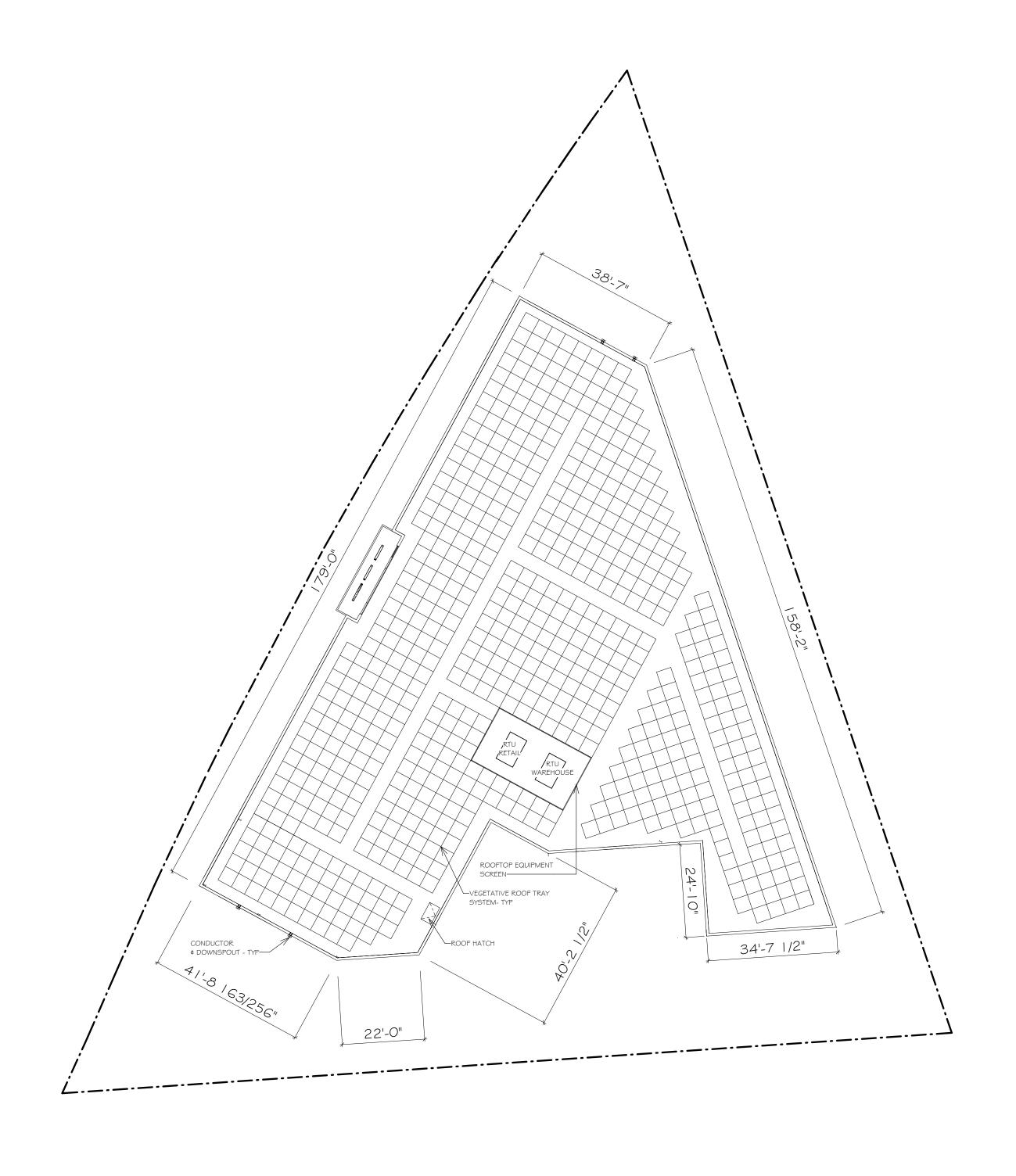
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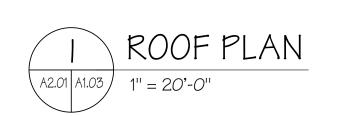
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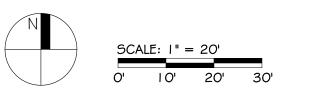
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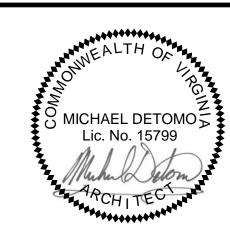
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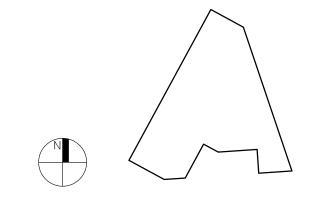
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Key Plan



Drawing
Roof Plan

Submission Set

Preliminary Verification 09/15/2020

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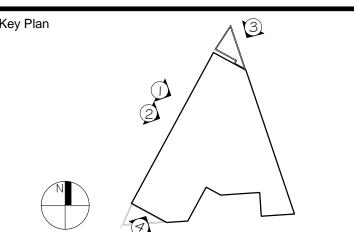
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Date September 15, 2020
Project No. No. 19014

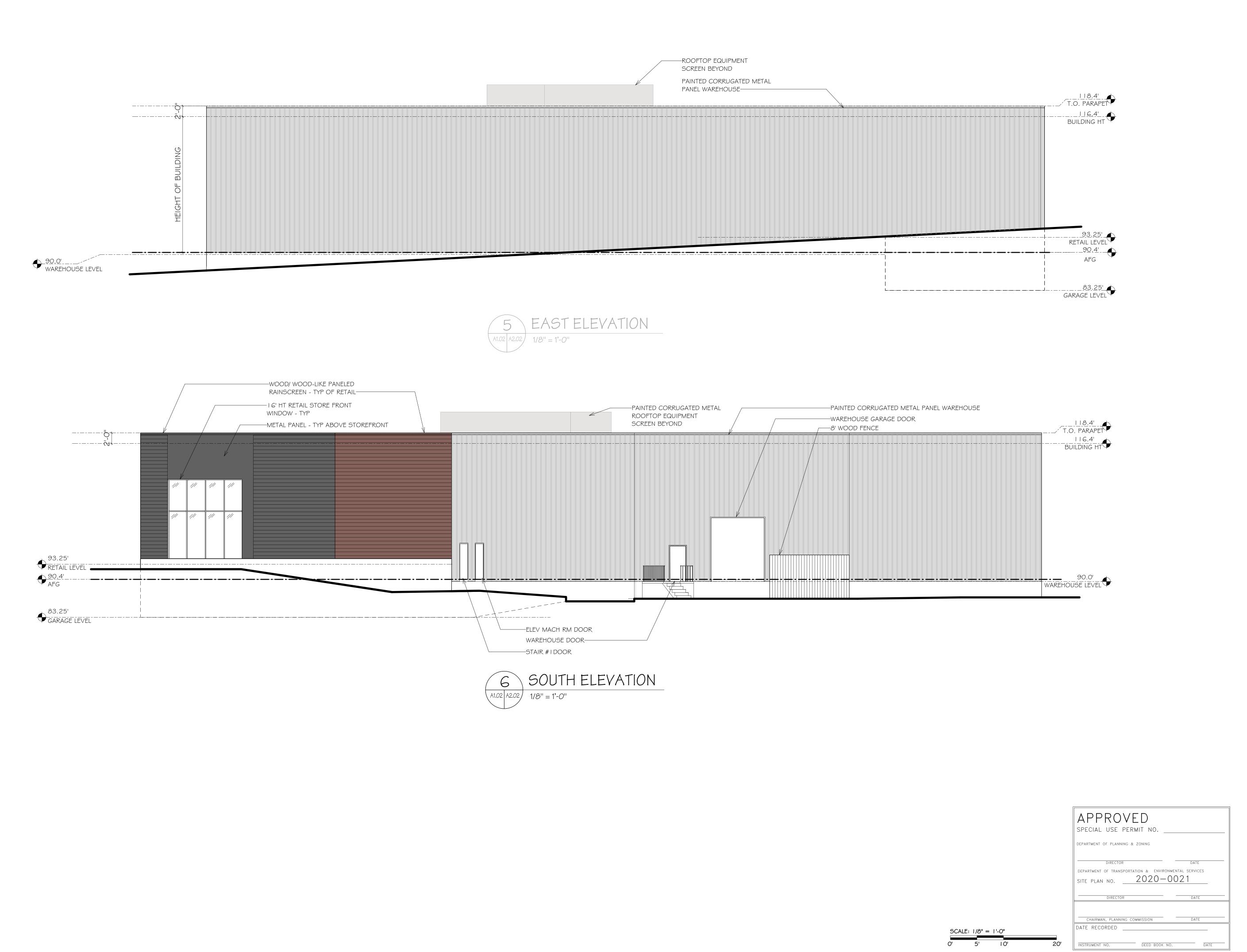
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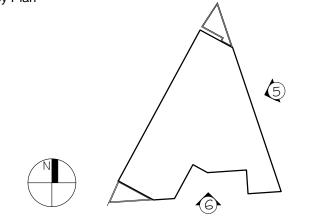
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MICHAEL DETOMO DE LIC. No. 15799

Key Plan



Drawing
Elevations

Submission Set

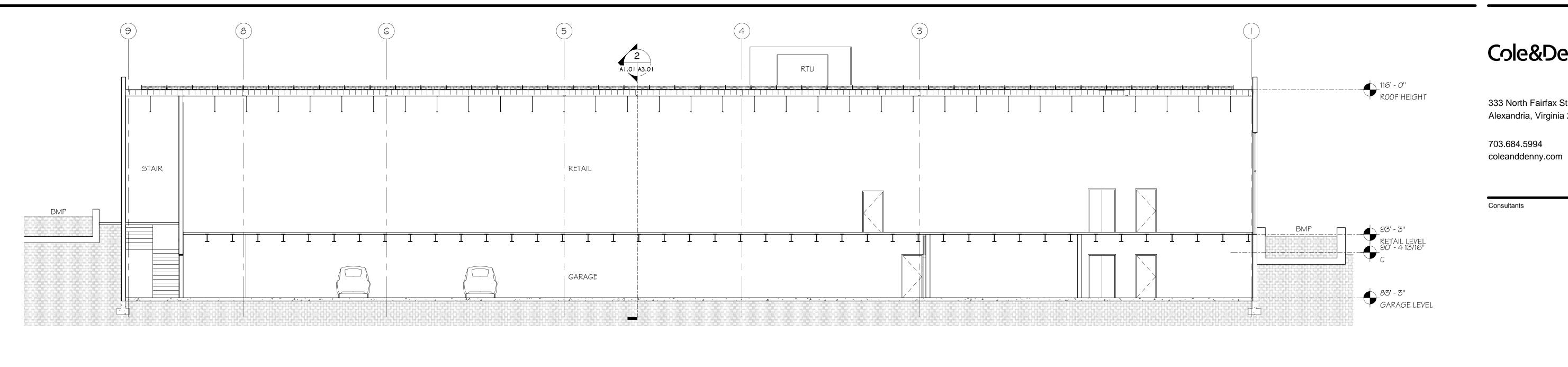
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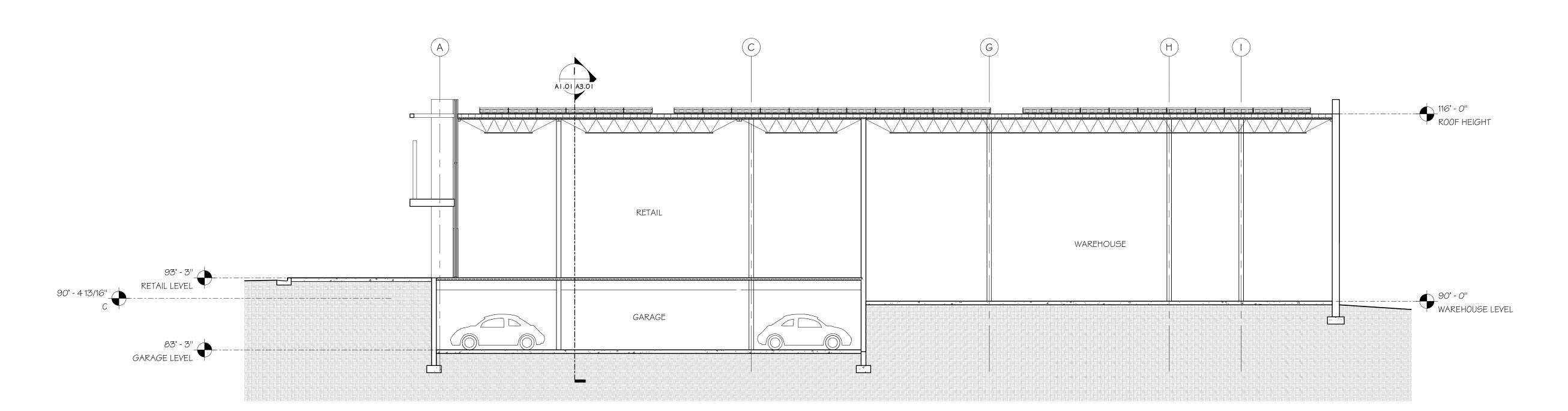
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Project No. No. 19014
Sheet No.

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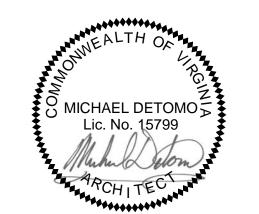


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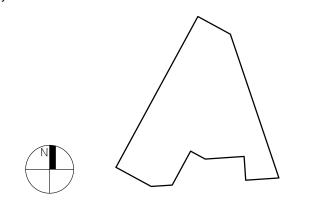
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Key Plan



Building Sections

Submission Set	
Preliminary Verification	09/15/2020

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No.	Revision	Date

September 15, 2020 Project No. No. 19014

Sheet No.











ENLARGED VIEW OF NORTH WEST RETAIL



4 MATERIAL SAMPLE OF PANELIZED RAINSCREEN



MATERIAL EXAMPLE OF PANELIZED RAINSCREEN A4.01 NTS

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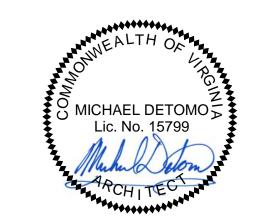
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Key Plan

Perspective Views

Submission Set **Preliminary Verification**

Revisions Revision

September 15, 2020 Project No. No. 19014

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