DEVELOPMENT PRELIMINARY SITE PLAN ABINGDON PLACE

AREA TABULATIONS	VICII
TOTAL EXISTING SITE AREA = 0.9813 AC $42,746$ SF	
TOTAL AREA OF TAX PARCELS = 0.9813 AC $42,746$ SF	
TOTAL EXISTING IMPERVIOUS AREA = 0.8013^* AC $34,903^*$ SF	
TOTAL PROPOSED IMPERVIOUS AREA =0.7057* AC30,740* SF TOTAL DISTURBED AREA =1.0594AC46,149 SF	
*NOTE: THE IMPERVIOUS AREA IS REPRESENTATIVE OF THE PARCEL AREA AFTER ALL DEDICATIONS HAVE OCCURRED.	
ENVIRONMENTAL SITE ASSESSMENT	
THERE ARE NO TIDAL WETLANDS, TIDAL SHORES, TRIBUTARY STREAMS, FLOODPLAINS, CONNECTED TIDAL WETLANDS, ISOLATED WETLANDS, HIGHLY ERODIABLE/PERMEABLE SOILS OR BUFFER AREAS ASSOCIATED WITH SHORES, STREAMS, OR WETLANDS LOCATED ON THE SITE. FURTHER, THERE ARE NO WETLAND PERMITS REQUIRED FOR THIS DEVELOPMENT PROJECT. ADDITIONALLY, THERE ARE NO KNOWN UNDERGROUND STORAGE TANKS OR AREAS OF SOIL OR GROUNDWATER CONTAMINATION ON THE SITE.	
2. THE CITY OF ALEXANDRIA DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL SERVICES, OFFICE OF ENVIRONMENTAL QUALITY MUST BE NOTIFIED IF UNUSUAL OR UNANTICIPATED CONTAMINATION OR UNDERGROUND STORAGE TANKS, DRUMS, AND CONTAINERS ARE ENCOUNTERED AT THE SITE. IF THERE IS ANY DOUBT ABOUT PUBLIC SAFETY OR A RELEASE TO THE ENVIRONMENT, THE ALEXANDRIA FIRE DEPARTMENT MUST BE CONTACTED IMMEDIATELY BY CALLING 911. THE TANK OR CONTAINER'S REMOVAL, ITS CONTENTS, ANY SOIL CONTAMINATION AND RELEASES TO THE ENVIRONMENT WILL BE HANDLED IN ACCORDANCE WITH FEDERAL, STATE, AND CITY REGULATIONS.	
 ALL WELLS TO BE DEMOLISHED ON THIS PROJECT, INCLUDING MONITORING WELLS, MUST BE CLOSED IN ACCORDANCE WITH STATE WATER CONTROL BOARD (VSWCB) REQUIREMENTS. CONTACT THE ENVIRONMENTAL HEALTH SPECIALIST AND COORDINATE WITH THE ALEXANDRIA HEALTH DEPARTMENT AT 703-838-4400 EXT 267/255. 	
4. ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE EALEXANDRIA NOSIE CONTROL CODE TITLE 11, CHAPTER 5, WHICH PERMITS CONSTRUCTIONA CTIVITIES TO OCCUR BETWEEN THE FOLLOWING HOURS: MONDAY THROUGH FRIDAY FROM 7 AM TO 6 PM; SATURDAYS FROM 9 AM TO 6 PM; NO CONSTRUCTION ACTIVITIES ARE PERMITTED ON SUNDAYS.	
PILE DRIVING IS FURTHER RESTRICTED TO THE FOLLOWING HOURS: MONDAY THROUGH FRIDAY FROM 9 AM TO 6 PM AND SATURDAYS FROM 10 AM TO 4 PM.	
5. THERE ARE NO KNOWN CONTAMINATED AREAS, CONTAMINATED SOILS OR ENVIRONMENTAL ISSUES ASSOCIATED WITH THIS SITE.	
ENVIRONMENTAL PERMITS NOTES	
ALL REQUIRED PERMITS FROM VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY, ENVIRONMENTAL PROTECTION AGENCY, ARMY CORPS OF ENGINEERS, VIRGINIA MARINE RESOURCES MUST BE IN PLACE FOR ALL PROJECT CONSTRUCTION AND MITIGATION WORK PRIOR TO RELEASE OF THE FINAL SITE PLAN.	
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 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.	PROJ
THE APPLICANT SHALL NOT ALLOW ANY METAL DETECTION AND/OR ARTIFACT COLLECTION TO BE CONDUCTED ON THE PROPERTY, UNLESS AUTHORIZED BY	THE APPLICAN AND IMPROVED
ALL REQUIRED ARCHAEOLOGICAL PRESERVATION MEASURES SHALL BE COMPLETED IN COMPLIANCE WITH SECTION 11-411 OF THE ZONING ORDINANCE.	
	OPEN SPA
	YARD SETREDUCTION
GENERAL NOTES	
1. 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.	
2. NEW CONSTRUCTION MUST COMPLY WITH THE CURRENT EDITION OF THE UNIFORM STATEWIDE BUILDING CODE (USBC).	
3. BEFORE A BUILDING PERMIT CAN BE ISSUED ON ANY PROPOSED FUTURE ALTERATIONS, A CERTIFICATION IS REQUIRED FROM THE OWNER OR OWNER'S AGENT THAT THE BUILDING HAS BEEN INSPECTED BY A LICENSED ASBESTOS INSPECTOR FOR THE PRESENCE OF ASBESTOS.	TYPE NUMBI
4. A CERTIFICATE OF OCCUPANCY SHALL BE OBTAINED PRIOR TO ANY OCCUPANCY OF THE BUILDING OR PORTION THEREOF.	FLOOR
5. REQUIRED EXITS, PARKING, AND ACCESSIBILITY WITHIN THE BUILDING FOR PERSONS WITH DISABILITIES MUST COMPLY WITH USBC CHAPTER 11. HANDICAPPED ACCESSIBLE BATHROOMS SHALL ALSO BE PROVIDED.	FIRE S
6. TOILET FACILITIES FOR PERSONS WITH DISABILITIES: LARGER, DETAILED, DIMENSIONED DRAWINGS ARE REQUIRED TO CLARIFY SPACE LAYOUT AND MOUNTING HEIGHTS OF AFFECTED ACCESSORIES. INFORMATION ON DOOR HARDWARE FOR THE TOILET STALL IS REQUIRED (USBC 1109.2.2).	
7. 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).	
8. ELECTRICAL WIRING METHODS AND OTHER ELECTRICAL REQUIREMENTS MUST COMPLY WITH NFPA 70, 2008.	
9. 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.	CIA-COLONY IN 3147 WOODLAN ALEXANDRIA, V

- 10. THIS PROJECT IS LOCATED IN A COMBINED SEWER AREA.
- 11. THIS SITE DOES NOT CONTAIN ANY AREAS PREVIOUSLY MAPPED AS MARINE CLAYS.

9\DWG 2018 J:\2012\1210 Tue, Feb 13 CITY OF ALEXANDRIA, VIRGINIA



REQUESTS A DEVELOPMENT SITE PLAN (DSP) TO PERMIT THE REDEVELOPMENT OF THE EXISTING HOTEL INTO 19 TOWNHOUSE-STYLE CONDOMINIUM UNITS STREETSCAPE/OPEN SPACE. SITE ACCESS WILL BE PROVIDED VIA A PROPOSED ENTRANCE OFF OF NORTH SAINT ASAPH STREET (PRIVATE ALLEY).

JESTED APPLICATIONS AND MODIFICATIONS:

PMENT IS REQUESTING A: PACE MODIFICATION TBACK MODIFICATIONS (FRONT, SIDE) ON IN TREE CANOPY COVER REQUIREMENT

BUILDING CODE ANALYSIS:

E GROUP(S):	R-3 (MULTIFAMILY TOWNHOUSE)
PE OF CONSTRUCTION:	VB
MBER OF STORIES:	4
OOR AREA (GROSS):	58,112 SQ. FT.
LDING HEIGHT:	50.0'
E SUPRESSION/DETECTION:	SPRINKLERED

COMPLETE STREETS INFORMATION:

	NEW	UPGRADED
CROSSWALKS (NUMBER)	3	N/A
STANDARD	3	N/A
HIGH VISIBILITY	N/A	N/A
CURB RAMPS	N/A	6
SIDEWALKS (LF)	N/A	446
BICYCLE PARKING (NUMBER SPACES)	20	N/A
PUBLIC/VISITOR	1	N/A
PRIVATE/GARAGE	19	N/A
BICYCLE PATHS (LF)	N/A	N/A
PEDESTRIAN SIGNALS	N/A	N/A

ER/DEVELOPER

INN LLC AND LANE VA 22309 INSTRUMENT #120027595

DEVELOPER:

TOLL BROS., INC. 5162-A JACOBS CREEK PLACE HAYMARKET, VA 20169 (703) 753–5663 CONTACT: MARK SIMMS

ARCHITECT: RUST ORLING ARCHITECTS 1215 CAMERON STREET ALEXANDRIA, VA 22314 (703) 836-3205 CONTACT: SCOTT FLEMING

PLAN PREPARED BY: R.C. FIELDS & ASSOCIATES, INC. 730 S. WASHINGTON STREET ALEXANDRIA, VA 22314 (703) 549–6422 CONTACT: ANDREA SPRUCH

ATTORNEY: WALSH, COLUCCI, LUBELEY & WALSH, P.C 2200 CLARENDON BLVD, SUITE 1300 ARLINGTON, VIRGINIA 22201 (703) 528–4700 CONTACT: M. CATHARINE PUSKAR

LANDSCAPE ARCHITECT: TWS DESIGN INC. 1835 CLOVERMEADOW DRIVE VIENNA, VIRGINIA 22182 (703) 5938-0308 CONTACT: TINA WOODS-SMITH

ZONING

1. TAX MAP #: _

- 3. USE: EXISTING

*****10. OPEN SPACE:



*12. YARDS: REQUIRE PROVIDE

13. FRONTAGE: R

14. AVERAGE FINISHI BUILDING

15. TRIP GENERATION

16. PARKING TABULA

17. LOADING SPACES

* SEE REQUESTED ** SEE SHEET 2

SHEET I

COVER SHEET____ CONTEXTUAL PLAN___ AVERAGE FINISHED G EXISTING CONDITIONS PRELIMINARY SITE PL UTILITY PLAN_ SITE DIMENSION PLAN STORMWATER MANAGE ONSITE BMP DESIGN ONSITE BMP DESIGN OFFSITE BMP DESIGN STORMWATER QUALITY OUTFALL ANALYSIS__ SITE DISTANCE PLAN TURNING MOVEMENTS TURNING MOVEMENTS LANDSCAPE PLAN____ LANDSCAPE PLAN LANDSCAPE PLAN_____ EXTERIOR ELEVATIONS EXTERIOR ELEVATIONS FLOOR PLANS & FAR BUILDING SECTIONS LIGHTING PLAN_ LIGHTING PLAN

TAR	
	#044.04-05-02
	CD (COMMERCIAL DOWNTOWN)
; HOTEL	PROPOSED MULTIFAMILY RESIDENTIAL (TOWNHOUSE-STYLE CONDOMINUM)
AREA: <u>42</u> ,	746 SF (0.9813 AC.) MINIMUM LOT AREA: 23,655 SF (1,245 SF PER UNIT)
ELLINGS:	19 UNITS
DROOMS:	3-4 PER UNIT (57-76 TOTAL)
E:	PERMITTED 35.0 PROPOSED 19.4 UNITS/ACRE
	GROSS 58,112 SQ. FT. NET 53,432 SQ. FT.
TIO:	PERMITTED 1.25 (53,432 SQ.FT.) EXISTING 0.64 (27,357 SQ.FT.) PROPOSED 1.25 (53,432 SQ.FT.)
	REQUIRED: 17,099 SQ. FT. (40.0%)
	GROUND LEVEL 9,366 SQ. FT. (21.9%)** ABOVE GRADE 3,874 SQ. FT. (9.1%)
	TOTAL13,240 SQ. FT. (31.0%)
llowed: Roposed:	50.0 FT
50 FI 50 FI 50 FI 50 FI 50 FI 50 FI 50 FI	UNIT 8: 50 FT UNIT 15: 45 FT UNIT 9: 50 FT UNIT 16: 45 FT UNIT 10: 50 FT UNIT 17: 45 FT UNIT 11: 50 FT UNIT 18: 45 FT UNIT 12: 50 FT UNIT 19: 45 FT UNIT 13: 50 FT UNIT 19: 45 FT UNIT 14: 50 FT UNIT 19: 45 FT
D FRON	<u>0 FT</u> SIDE <u>1:3 HEIGHT, 25 FT MIN</u> REAR <u>1:1 HEIGHT, 25 FT MIN</u>
UILDING 1: UILDING 2: UILDING 3: UILDING 4:	FRONT(WEST)FRONT(SOUTH)SIDE(NORTH)SIDE(EAST)22.1 FT159 FT6.6 FT69.7 FT15.2 FT0.0 FT141 FT24.0 FT84.4 FT64.0 FT141 FT20.8 FT90.0 FT159 FT6.5 FT21.2 FT
Equired Rovided	<u> </u>
ED GRADE:	
G 1: <u>32.32</u> N:	_ BUILDING 2: <u>31.04</u> BUILDING 3: <u>31.65</u> BUILDING 4: <u>32.96</u> EXISTING <u>400 VPD</u> PROPOSED <u>148 VPD</u> EXISTING AM PEAK <u>26 AVTE</u> PROPOSED AM PEAK <u>13 AVTE</u>
	EXISTING PM PEAK29 AVTEPROPOSED PM PEAK45 AVTE(PER ITE STANDARDS)(PER ITE STANDARDS)REQUIRED 1.0 SPACE / BEDROOM (UP TO 2 BDRMS) = 1.0 x 38 = 38 SPACES
	TOTAL REQUIRED 38 SPACES ADDITIONAL ALLOWED 1 SPACE/BDRM GREATER THAN 2 BDRMS = 19 SPACES TOTAL ALLOWED 57 SPACES PROVIDED 43 SPACES 38 IN UNIT GARAGE (19 STANDARD & 19 COMPACT) & 5 COMPACT SURFACE
s: Requi	RED <u>N/A</u> PROPOSED <u>N/A</u>
) applic, for ope	ATIONS/MODIFICATIONS FOR DETAILED INFORMATION (THIS SHEET) IN SPACE EXHIBIT
NDE	X: 1
rade and Plan An	LOT LINE DETAILS3
	o 7 N8
AND DETAI	LS0 IS10
AND DETA	VLS11 TIONS12
AND PROF	13 ILE14
<u> </u>	15 15A
	L1 L2
<u> </u>	L3 A1.1
R CALCULAT	
	A1.4



LP01





SECTION 6-403 COMPLIANCE NOTE:

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

SECTION 6-403 DETAILS: NOT TO SCALE



THIS DRAWING IS A SERVICE DOCUMENT OF REPRODUCED WITHOUT THE WRITTEN PERMISSION EXISTING UTILITIES SHOWN ON THIS PLAN TAKEN FOR EXACT LOCATIONS OF EXISTING UNDERGROU HOURS BEFORE THE START OF ANY EXCAVATION C LOCATION AND DEPTH OF ALL EXISTING UNDERCONSTRUCTION. INTERFERENCE OR DISRUPTION OF ALL CONSTRUCTION SHALL CONFORM TO THE ALEXANDRIA.

	EEBLINAR, 13, 2018 Alexandria, Virginia 22314 Alexandria, Virginia 22314 Alexandria, Virginia 22314
Strong with the second seco	DEVELOPMENT PRELIMINARY SITE PLAN ABINGDON PLACE 1101 NORTH WASHINGTON STREET CITY OF ALEXANDRIA, VIRGINIA
R.C. FIELDS & ASSOCIATES, INC. AND MAY NOT BE USED OR OF THE ENGINEER AND/OR LAND SURVEYOR. I FROM AVAILABLE RECORDS AND/OR FROM FIELD OBSERVATIONS. UND UTILITIES, NOTIFY "MISS UTILITY" AT 1-800-552-7001, 72 OR CONSTRUCTION. RGROUND UTILITIES TO BE VERIFIED BY CONTRACTOR PRIOR TO F SAME WILL NOT BE THE RESPONSIBILITY OF THIS OFFICE. CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF	DATE REVISION



SCALE: 1" = 20'

Build		Вι	
Point	ELEV		Point
1	33.09		
2	33		
3	32.8		
4	32.6		
5	32.4		
6	32.2		
7	32.25		
8	31.6		
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AFG

Build			
Point	ELEV		Po
1	31.9		
2	31.8		
3	31.6		
4	31.5		
5	31.5		
6	31.5		
7	31.5		
8	31.6		
9	31.6		
10	32		
AFG	31.65		
		-	



Building 4



LOT LINE AND BUILDING DIMENSION DETAIL SCALE: 1" = 20'





GENERAL NOTES:

- 1. TAX MAP: #044.04-05-02
- ZONE: 2. CD

3.

- OWNER: CIA-COLONY INN LLC 3147 WOODLAND LANE ALEXANDRIA, VA 22309
- 4. TOPOGRAPHIC SURVEY WAS RUN BY THIS FIRM. VERTICAL DATUM USED = NAVD '88 MONUMENT = CITY OF ALEXANDRIA GPS 44. ELEVATION = 29.43'

BOUNDARY REFERENCED TO VIRGINIA COORDINATE SYSTEM, 1983. MONUMENTS USED: CITY OF ALEXANDRIA GPS #44. N = 6,983,605.74 E = 11,897,590.11 CITY OF ALEXANDRIA GPS #500. N = 6,983,871.31 E = 11,898,947.54

- TITLE COMMITMENT FURNISHED BY CHICAGO TITLE INSURANCE COMPANY, COMMITMENT NO. 192001411, EFFECTIVE DATE AUGUST 1, 2012 AND IS RELIED UPON AS ACCURATE BY THE SURVEYOR.
- 6. PLAT SUBJECT TO RESTRICTIONS OF RECORD.
- 7. TOTAL SITE AREA = 40,723 S.F. OR 0.9349 AC. (POST-DEDICATION)

SANITARY SEWER OUTFALL NARRATIVE:

THE EXISTING USE (HOTEL) PRODUCES AN AVERAGE DAILY FLOW OF APPROXIMATELY 25,480 GALLONS PER DAY (130 GPD/ROOM X 49 ROOMS X 4.0 PEAK FACTOR). THE PROPOSED USE (MULTIFAMILY) PRODUCES 22,800 GALLONS PER DAY (300 GPD/UNIT X 19 UNITS X 4.0 PEAK FACTOR). THE TOTAL FLOW FROM THE THE PROPOSED USE DECREASES THE AVERAGE DAILY FLOW BY 2,680 GPD THEREFORE NO SANITARY SEWER OUTFALL ANALYSIS IS REQUIRED.

FIRE HYDRANT FLOW INFORMATION:

(PROVIDED BY VIRGINIA AMERICAN WATER) HYDRANT NUMBER: 1274 (SECOND STREET AND EAST ABINGDON STREET)

=	49 PSI
=	39 PSI
=	1,488 GPM
=	2,644 GPM
	= = =

FIRE SERVICE NOTE:

FIRE TRUCK ACCESS AND TURNING MOVEMENTS ARE SHOWN ON SHEET 15. TWO FIRE HYDRANTS ARE PROPOSED, WHICH WILL BE USED TO SERVE THE PROPOSED DEVELOPMENT, ONE ON E ABINGDON DRIVE AND ONE ON N. SAINT ASAPH STREET. SEE FLOW INFORMATION, THIS SHEET. A DETAILED FIRE SAFETY PLAN WILL BE INCLUDED WITH SUBSEQUENT SUBMISSIONS.

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 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 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.

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

SEE THE UTILITY PLAN ON SHEET 6 FOR PROPOSED WATER SERVICE AND SANITARY LATERAL LOCATIONS

PROPOSED BRICK/DECORATIVE SIDEWALK OR DRIVE AISLE PAVERS

PROPOSED CONCRETE RAMP/WALK

PROPOSED PERMEABLE PAVER WALK OR DRIVE AISLE

40

	APPROVED SPECIAL USE PERMIT NO
	DEPARTMENT OF PLANNING & ZONING
OR	DIRECTOR DATE DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVIC SITE PLAN NO. 2017-0014
IS. 72	DIRECTOR DATE

CHAIRMAN, PLANNING COMMISSION

DATE RECORDED

INSTRUMENT NO.

DATE

DATE

DEED BOOK NO.

SHEET 5 OF 15

FILE: 12-109

		ENGINEERING • LAND SURVEYING • PLANNING 730 S. Washington Street www.rcfassoc.com	Alexandria, Virginia 22314 (703) 549-6422
TROPPER	ANDREA SPRILIC. NO. 04786 RUARY 13,	2018 CINE	h
DEVELOPMENT PRELIMINARY SITE PLAN	ABINGDON PLACE	CITY OF ALEXANDRIA, VIRGINIA	
DATE	REVIS	SION	
DESIG DRAWI SCALE DATE:	N: ACS N: TJD :: 1" = DEC. 2	= 20' 017	
PREL SITE	IMINAF PLAN	RY	

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 © 2017 R.C. FIELDS & ASSOCIATES, INC.

```
TEXT LEGEND:
  •= DEGREES
  '= MINUTES (OR FEET)
 "= SECONDS (OR INCHES)
 %= PERCENT
#= NUMBER
 ©= AT
 lbs.= POUNDS
 A= ARC
 AC.= ACRE
 ADA = AMERICANS W / DISABILITIES ACT
 APPROX=APPROXIMATE
 BC=BOTTOM OF CURB
 BF= BASEMENT FLOOR
 BLDG.= BUILDING
BM= BENCHMARK
BOL.= BOLLARD
 CATV= CABLE UTILITY
 CL= CLASS
 CLEAR= CLEARANCE
 CLF= CHAIN LINK FENCE
 CMP = CORRUGATED METAL PIPE
 C.I.= CURB INLET
 C.O.= CLEAN OUT
 CONC.= CONCRETE
 C&G= CURB & GUTTER
DB= DEED BOOK
DIP= DUCTILE IRON PIPE
 DOM= DOMESTIC
 DSP= DEVELOPMENT SITE PLAN
 DSUP= DEVELOPMENT SPECIAL USE PERMIT
 DU= DWELLING UNIT
 E= EAST
 EBOX= ELECTRICAL BOX
 ESMT.= EASEMENT
 EP= EDGE OF PAVEMENT
 EVE= EMERGENCY VEHICLE EASEMENT
 EX=EXISTING
 FDC= FIRE DEPT. CONNECTION
 FF= FINISH FLOOR
FH= FIRE HYDRANT
 FT.= FEET
 GL = GROUND LIGHT
 G/V = GAS VALVE
 G/M = GAS METER
G.I.= GRATE INLET
 H.C.= HEADER CURB
 HCR= HANDICAP RAMP
 HDCP.= HANDICAP
 HDPE= HIGH DENSITY POLYETHYLENE
 HPS= HIGH PRESSURE SODIUM
ICV= IRRIGATION CONTROL VALVE
IPF= IRON PIPE FOUND
INV.= INVERT
 INSTR.= INSTRUMENT
 L= LUMENS
 LOC.= LOCATION
 LP= LIGHT POLE
MAX. = MAXIMUM
MH= MANHOLE
MIN.= MINIMUM
MPH= MILES PER HOUR
MW= MONITORING WELL
 N= NORTH
OHW= OVERHEAD WIRE
PN = PANEL
PG= PAGE
PP= POWER POLE
PROP= PROPOSED
PVC= POLYVINYL CHLORIDE
R= RADIUS
 RCP= RE-ENFORCED CONCRETE PIPE
 RELOC. = RELOCATED
 RET.= RETAINING
 RESID.= RESIDENTIAL
 R/W= RIGHT-OF-WAY
 S= SOUTH
 SAN.= SANITARY SEWER
 S.F.= SQUARE FEET
 SQ.FT.= SQUARE FEET
 STM.= STORM SEWER
 STR.= STRUCTURE
 SUB= SUBDIVISION PLAN
 TBR = TO BE REMOVED
 TBS = TO BE SAVED
 T.M.= TAX MAP
 TMH= TELEPHONE MANHOLE
 TC= TOP OF CURB
 TOW = TOP OF WALL
 TRAF.SIG.= TRAFFIC SIGNAL
 TYP= TYPICAL
 UGE= UNDERGROUND ELECTRIC
 UP= UTILITY POLE
 VCS= VIRGINIA COORDINATE SYSTEM
 VPD= VEHICLES PER DAY
W= WATT
W= WEST
 W.S.E.= WATER SURFACE ELEVATION
WV= WATER VALVE
WM= WATER METER
 W.W.= WINDOW WELL
CIVIL LEGEND
  ITEM
                           EXISTING
                         CURB & GUTTER
  SIDEWALK
                            WALK
 FIRE HYDRANT
                              -Q-
                              \overline{\mathbb{D}} —
 STRUCTURES
 WATER MAINS
                        _ __ W___ __ W___ __ W___
  GAS MAINS
                        _ _ G__ _ G__ _ G__
  TELEPHONE LINES
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  STORM SEWER
                        = =0= =
                                             SANITARY SEWER
                        _____(S)___
  PAVING
  FENCES
 POWER LINES
                         SPOT ELEVATIONS
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PROPOSED

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CONTOURS

UTILITY POLE

LIGHT POLE

BUILDING ENTRANCES

LIMITS OF DISTURBANCE







STORMWATER RUNOFF COMPUTATIONS:

VIRGINIA RUNOFF REDUCTION METHOD (PER TR-20, TYPE II, 24-HOUR STORM COMPUTER USING HYDROCAD SOFTWARE) (2-YR, 24-HR DEPTH=3.20 IN, 10-YR, 24-HR DEPTH=5.20 IN)

- I. SITE AREA* = 40,723 SQ.FT. OR 0.9349 ACRES EXISTING IMPERVIOUS AREA = 34,903 SQ.FT. OR 0.8013 ACRES PROPOSED IMPERVIOUS AREA = 30,740 SQ.FT. OR 0.7057 ACRES
- II. WEIGHTED CN CALCULATION

PRE-DEVELOPMENT CN = $(80 \times 0.1336 + 98 \times 0.8013) \div 0.9349 = 95$ $POST-DEVELOPMENT CN = (80 \times 0.2292 + 98 \times 0.7057) \div 0.9349 = 94$ POST-DEVELOPMENT CN AFTER RUNOFF REDUCTION (FROM VRRM) = 94

III. PEAK DISCHARGE FOR DESIGN STORMS (Tc = 5 MIN)

PRE-DEVELOPMENT

 Q_2 PRE = 2.75 CFS Q_{10} PRE = 4.64 CFS

POST-DEVELOPMENT

 Q_2 POST = 2.69 CFS Q_{10} POST = 4.59 CFS

IV. POST-DEVELOPMENT DECREASES

 Q_2 DECREASE = 0.06 CFS $\bar{Q_{10}}$ DECREASE = 0.05 CFS

V. DETENTION VOLUME

ESTIMATED DECREASE IN RUNOFF, THEREFORE NO DETENTION IS REQUIRED. *NOTE: THE SITE AREA IS REPRESENTATIVE OF THE TOTAL PARCEL AREA AFTER ALL DEDICATIONS AND VACATIONS HAVE OCCURRED.

DETAILS OF THE PROPOSED BIORETENTION, PERVIOUS PAVER, HYDRODYNAMIC BMP AND TREE WELLS CAN BE FOUND ON SHEETS 9-11

BMP SCHEDULE: AREA T BMP FACILITY (ACI 0.07

EXISTING SEWER SCHEDULE

	THIS DRAW	ING IS	S A SERVICE DOCUMENT	OF	R.C. FIELDS &
	INV.IN=22.31(15",S) INV.IN=21.71(15",W) INV.OUT=21.31(15")		INV.IN=22.61(15",N) INV.OUT=22.51(15")	(13)	EX. STORM MH TOP=25.65 INV.IN=21.75(15 INV.OUT=21.65(1
2	EX. CURB INLET		INV.IN=22.61(15",E)		INV.OUT=26.79(1
	INV.IN=14.72(52",N) INV.OUT=14.67(52"x42")	7	EX. STORM MH	(12)	EX. CURB INLET TOP=33.49
	TOP=28.52 INV.IN=21.52(15",W) INV.IN=16.12(12"F)	6	EX. STORM INLET TOP=23.54 INV 011T=17 04(15")		IOP=32.45 INV.IN=27.55(18 INV.OUT=27.45(1
	INV.IN=26.93(10",NE) INV.IN=26.83(12",N) INV.OUT=26.83(12")	(5)	EX. CURB INLET TOP=26.96 INV.IN=22.76(8") INV.OUT=22.46(15")	(10)	INV.IN=24.69(10 INV.OUT=24.59(4 EX. GRATE INLET
B	BENCHMARK #2 EX. SAN. MH TOP=33.83	_	INV.IN=20.39(15",S) INV.IN=19.39(15",E) INV.OUT=19.29(15")		EX. STORM MH TOP=32.99 INV.IN=27.39(18
	INV.IN=20.98(10",5) INV.IN=20.68(12",N) INV.IN=20.48(12",E) INV.OUT=20.38(12")	4	INV.OUT=20.96(15",S) EX. STORM MH TOP=27.39	9	EX. CURB INLET TOP=28.85 INV.OUT=25.55(1
A	BENCHMARK #1 EX. SAN. MH TOP=29.38	3	EX. GRATE INLET TOP=27.16 INV.IN=22.06(15",N)	8	EX. STORM MH TOP=29.92 PIPES BLOCKED

REPRODUCED WITHOUT THE WRITTEN PERMISSION EXISTING UTILITIES SHOWN ON THIS PLAN TAKE FOR EXACT LOCATIONS OF EXISTING UNDERGRO HOURS BEFORE THE START OF ANY EXCAVATION LOCATION AND DEPTH OF ALL EXISTING UNDE CONSTRUCTION. INTERFERENCE OR DISRUPTION ALL CONSTRUCTION SHALL CONFORM TO THE ALEXANDRIA.

WATER QUALITY/QUANTITY COMPLIANCE NARRATIVE:

THE 0.93 ACRE SITE IS LOCATED IN THE CSO-PENDLETON STREET WATERSHED. IN EXISTING CONDITIONS, THE SITE CONSISTS OF A HOTEL WITH ASSOCIATED PARKING AND A VERY LITTLE LANDSCAPED OPEN SPACE. THE MAJORITY OF THE SITE DRAINS SOUTH AND IS COLLECTED IN AN EXISTING UNDERGROUND STORM SEWER SYSTEM THAT IS CONVEYED TO THE SECOND STREET RIGHT-OF-WAY. THE REMAINING PORTION OF THE SITE SHEETS FLOWS NORTH AND IS COLLECTED IN AN EXISTING CURB INLET LOCATED IN THE EAST ABINGDON DRIVE RIGHT-OF-WAY.

THE REDEVELOPMENT OF THE PROJECT PROPOSES 19 TOWNHOUSE-STYLE CONDOMINIUM UNITS AND IMPROVED STREETSCAPE/OPEN SPACE. IN PROPOSED CONDITIONS, THE MAJORITY OF THE SITE WILL CONTINUE TO DRAIN SOUTH TO AN UNDERGROUND STORM SEWER SYSTEM THAT CONVEYS RUNOFF TO THE SECOND STREET RIGHT-OF-WAY. THE REMAINING PORTION OF THE SITE SHEETS FLOWS NORTH AND IS COLLECTED IN AN EXISTING CURB INLET LOCATED IN THE EAST ABINGDON DRIVE RIGHT-OF-WAY.

OVERALL IMPERVIOUS AREA WILL DECREASE WITH THE PROPOSED DEVELOPMENT (SEE STORMWATER RUNOFF COMPUTATIONS, THIS SHEET) WHICH GENERATES AN OVERALL DECREASE IN RUNOFF. DUE TO THE REDUCTION OF RUNOFF, ONSITE STORMWATER DETENTION IS NOT REQUIRED.

MULTIPLE BEST MANAGEMENT PRACTICE (BMP) FACILITIES ARE PROPOSED TO TREAT THE MAJORITY OF RUNOFF FROM PROPOSED IMPERVIOUS AREAS OF THE SITE (INCLUDING A BIORETENTION, PERMEABLE PAVEMENT, A HYDRODYNAMIC BMP, AND AN URBAN BIORETENTION IN THE PUBLIC RIGHT-OF-WAY). A CONTRIBUTION TO THE ALEXANDRIA WATER QUALITY IMPROVEMENT FUND WILL BE MADE FOR THE REMAINDER OF THE WATER QUALITY VOLUME NOT TREATED FOR THIS SITE.

COMPLIANCE NARRATIVES AND COMPUTATIONS PER CITY CODE SECTION 13-109E ARE PROVIDED ON SHEET 12.

PROJECT DESCRIPTION: REDEVELOPMENT

DRAINAGE AREA	IMPERVIOUS	PERVIOUS	TOTAL
PROJECT AREA	0.7057	0.2292	0.9349
ON-SITE TREATED	0.5960	0.0705	0.6665
OFF-SITE TREATED	0.0000	0.0000	0.0000
TOTAL TREATED	0.5960	0.0705	0.6665
ON-SITE IMPERVIOUS AREAS			
DISCONNECTED BY A VEGETATIVE BUFFER			
TOTAL TREATED OR DISCONNECTED	· · · · · · · · · · · · · · · · · · ·		0.6665

WATER QUALITY VOLUME DEFAULT: PROPOSED IMPERVIOUS: 0.7057 AC

TREATMENT OF FIRST HALF INCH OF RUNOFF: 1,815 X 0.7057 = 1,281 CU. FT. WQV REQUIRED

WATER TREATMENT ON-SITE							
AREA TREATED BY BMP (ACRES)	IMPERVIOUS AREA TREATED BY BMP (ACRES)	BMP EFFICIENCY (%)					
0.0760	0.0464	25%					
0.5602	0.5285	20%					
0.0303	0.0211	25%					
	AREA TREATED BY BMP (ACRES) 0.0760 0.5602 0.0303	IENT ON-SITEAREA TREATED BY BMP (ACRES)IMPERVIOUS AREA TREATED BY BMP (ACRES)0.07600.04640.56020.52850.03030.0211					

TOTAL WQV TREATED: NO

WATER QUALITY VOLUME REQUIRED = 1,281 CU. FT. WATER QUALITY VOLUME TREATED = $1,815 \times 0.6665 = 1,210 \text{ CU}$. FT. PERCENT OF WATER QUALITY VOLUME TREATED = 94.5%

DETENTION ON SITE: NO

PROJECT IS WITHIN WHICH WATERSHED? CSO - PENDLETON STREET PROJECT DISCHARGES TO WHICH BODY OF WATER? POTOMAC RIVER

	AREA TREATED	IMPERVIOUS AREA	PERVIOUS AREA	TP REMOVAL	PHOSPHORUS	GEOGRAPHIC COORDINATES		
	(ACRES)	TREATED (ACRES)	TREATED (ACRES)	EFFICIENCY	REMOVED (LBS)	NORTHING	EASTING	
A						11897823.95	6983894.46	
В	В	0.0464		25%	0.06	11897820.75	6983839.77	
	;		0.0296			11897818.39	6983791.07	
PERVIOUS PAVERS	0.0760					11897816.13	6983768.52	
E						11897814.49	6983745.76	
F						11897807.28	6983705.22	
G	i					11897932.41	6983822.60	
HYDRODYNAMIC BMP	0.5602	0.5285	0.0317	20%	0.23	11897906.38	6983686.75	
BIORETENTION	0.0303	0.0211	0.0092	25%	0.03	11897827.68	6983672.91	

e curkent standard	© 2017 R.C. FIELDS & ASSOCIATES, INC.	UF INSTRUMENT NO. DEED BOOK NO. DATE	FILE: 12-109
ERGROUND UTILITIES TO OF SAME WILL NOT BE	D BE VERIFIED BY CONTRACTOR PRIOR THE RESPONSIBILITY OF THIS OFFICE.	TO CHAIRMAN, PLANNING COMMISSION DATE	SHEET 8 OF 15
IN FROM AVAILABLE RED OUND UTILITIES, NOTIFY I OR CONSTRUCTION.	CORDS AND/OR FROM FIELD OBSERVATION 7 "MISS UTILITY" AT 1-800-552-7001,	IS. DIRECTOR DATE	PLAN
R.C. FIELDS & ASSO N OF THE ENGINEER AN	CIATES, INC. AND MAY NOT BE USED ON NOT LAND SURVEYOR.	DIRECTOR DATE DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES SITE PLAN NO	STORMWATER MANAGEMENT
EX. STORM MH TOP=25.65 INV.IN=21.75(15") INV.OUT=21.65(15")	0 <u>' 10' 20' 40</u>	DEPARTMENT OF PLANNING & ZONING	SCALE: $1'' = 20''$ DATE: DEC. 2017
EX. CORB INLET TOP=33.49 INV.OUT=26.79(15")	INV.OUT=18.78(52") (19) EX. GRATE INLET TOP=25.10	APPROVED	DESIGN: ACS
INV.IN=27.55(18") INV.OUT=27.45(18") EX_CURB_INLET	(18) EX. COMB. MH TOP=27.48 INV.IN=19.18(52")	- PROPOSED AREA TO BE TREATED	
EX. GRATE INLET TOP=32.45	(17) EX. GRATE INLET TOP=24.61 INV.OUT=21.51(15")	PROPOSED PERMEABLE PAVER WALK OR DRIVE AISLE	
TOP=32.99 INV.IN=27.39(18",NE) INV.IN=24.69(10",N) INV.0UT=24.59(48")	(16) EX. CURB INLET TOP=30.29 INV.OUT=26.49(15")	PROPOSED CONCRETE RAMP/WALK	
TOP=28.85 INV.OUT=25.55(12") EX. STORM MH	(15) EX. CURB INLET TOP=30.31 INV.OUT=26.31(12")	HATCH LEGEND: PROPOSED BRICK/DECORATIVE SIDEWALK OR DRIVE AISLE PAVERS	DATE REVISION
EX. STORM MH TOP=29.92 PIPES BLOCKED EX. CURB INLET	(14) EX. CURB INLET TOP=25.64 INV.IN=20.99(15") INV.OUT=20.94(15")		

II IEndria De FEBRUARY 13, 2018 ARY SITE P LACE ON STREE , VIRGINIA

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Lic. No. 047863

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BARRACUDA SYSTEMS MUST BE INSPECTED AND MAINTAINED PERIODICALLY. INSPECTION IS MADE BY CHECKING THE DEPTH OF SEDIMENT IN EACH MANHOLE WITH A GRADE STICK OR SIMILAR DEVICE. MAINTENANCE IS REQUIRED WHEN THE SEDIMENT DEPTH IN EXCEEDS 20 INCHES. MINIMUM INSPECTION IS RECOMMENDED TWICE A YEAR TO MAINTAIN OPERATION AND FUNCTION OF THE UNIT.

1. REMOVE THE MANHOLE COVER TO PROVIDE ACCESS TO THE POLLUTANT STORAGE. POLLUTANTS ARE STORED IN THE SUMP. BELOW THE BOWL ASSEMBLY VISIBLE FROM THE SURFACE. YOU'LL ACCESS THIS AREA THROUGH THE 10" DIAMETER ACCESS CYLINDER. 2. USE A VACUUM TRUCK OR OTHER SIMILAR EQUIPMENT TO REMOVE ALL WATER, DEBRIS, OILS AND SEDIMENT.

3. USE A HIGH PRESSURE HOSE TO CLEAN THE MANHOLE OF ALL THE REMAINING SEDIMENT AND DEBRIS. THEN, USE THE VACUUM 4. FILL THE CLEANED MANHOLE WITH WATER UNTIL THE LEVEL REACHES THE INVERT OF THE OUTLET PIPE.

6. DISPOSE OF THE POLLUTED WATER, OILS, SEDIMENT AND TRASH AT AN APPROVED FACILITY. LOCAL REGULATIONS PROHIBIT THE DISCHARGE OF SOLID MATERIAL INTO THE SANITARY SYSTEM. CHECK WITH THE LOCAL

SEWER AUTHORITY FOR AUTHORITY TO DISCHARGE THE LIQUID. SOME LOCALITIES TREAT THE POLLUTANTS AS LEACHATE. CHECK WITH LOCAL REGULATORS ABOUT DISPOSAL REQUIREMENTS. ADDITIONAL LOCAL REGULATIONS MAY APPLY TO THE MAINTENANCE PROCEDURE.

INSTALLATION OF THE STORMWATER TREATMENT UNIT(S) SHALL BE PERFORMED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUCH INSTRUCTIONS CAN BE OBTAINED BY CALLING ADVANCED DRAINAGE SYSTEMS AT (800) 821-6710 OR BY LOGGING ON TO







NO. | BOTANIC

AREA TO BIORETENTION DETAIL SCALE: 1" = 20'



Project Name: Abingdon Place Location: Alexandria, VA Site Designation:

Site Conditions		•	
Rainfall Depth=	1	in	
Impervious Acreage=	0.54	ac	
Total Acreage=	0.58	ac	
Time of Concentration=	0.1	hr	
R.S.	02.4	0/	
T=	93.1	%	
R _v (Runoff Coefficient)=	0.89		
WQ _v =	1869	cf	
q _u (Unit Peak Discharge)=	1000	csm <i>l</i> in	From Type II Chart
Q _n (Water Quality Storm)=	0.80	cfs	
Peak Flow		cfs	
BaySeparator Required	S1	212 197	
Dravided peak treatment	1.05	-E-	
	1.20	CIS	
Provided peak bypass	6.25	cts	

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PLANTING SCHEDULE FOR BIORETENTION

CAL NAME	COMMON NAME	SIZE	COMMENTS
lex Abra	INKBERRY	3 GALLON CONTAINER	
tea Ginica	VIRGINIA SWEETSPIRE	3 GALLON CONTAINER	

NOTE: SHRUBS TO BE PLANTED AT APPROXIMATELY 7.5 SQ.FT. PER SHRUB IN RELATION TO THE AVAILABLE SURFACE AREA OF THE FACILITY. ORNAMENTAL GRASSES MAY ALSO BE PLANTED INSIDE THE BIORETENTION AT THE OWNERS DISCRETION.

	QUALITI VOLUME REQUIRED:
T _v =	(RV)(A)/12
WHERE	
A	= AREA IO FACILITY (1,321 SF)
Ky D	$= [(0.25*401) \pm (0.05*020)] = 0.74$
ιw	$\frac{1}{10000000000000000000000000000000000$
T _v =	(0.74)(1321)/12 = 81.5 FT ³
WAIER	QUALITY VOLUME PROVIDED:
V = : WHER	$\frac{1}{2} \left[\frac{1}{2} \frac$
V	 = VOLUME
SA	= SURFACE AREA (75 SQ. FT.)
D	= PONDING DEPTH (6")
D _{fm}	= DEPTH OF FILTER MEDIA (18")
N _{fm}	= VOID RATIO OF FILTER MEDIA (0.25)
Da	= DEFIN OF GRAVEL DED (12)

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ANDREA SPRUCH

Lic. No. 047863

S FEBRUARY 13, 2018

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SITE TE

PROVIDED: 95.6 CU.FT.

Date 12/19/2017		DEVELOPMENT PRELIMIN PUEDOMENT PRELIMIN BUNGDON P DATE REVISION DATE REVISION DATE REVISION DESIGN: KCS
	APPROVED SPECIAL USE PERMIT NO	DESIGN: ACS DRAWN: TJD SCALE: 1" = 20' DATE: DEC. 2017
0' 10' 20' 40'	DIRECTOR DATE	
R.C. FIELDS & ASSOCIATES, INC. AND MAY NOT BE USED OR	department of transportation & environmental services site plan no. $2017-0014$	ONSITE BMP DESIGN AND
EN FROM AVAILABLE RECORDS AND/OR FROM FIELD OBSERVATIONS. ROUND UTILITIES, NOTIFY "MISS UTILITY" AT 1-800-552-7001, 72 = N OR CONSTRUCTION.	DIRECTOR DATE	DETAILS
DERGROUND UTILITIES TO BE VERIFIED BY CONTRACTOR PRIOR TO	CHAIRMAN, PLANNING COMMISSION DATE DATE DATE	SHEET 9 OF 15
HE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF © 2017 R.C. FIELDS & ASSOCIATES, INC.	INSTRUMENT NO. DEED BOOK NO. DATE	FILE: 12-109



AREA TO PERMEABLE PAVEMENT DETAIL SCALE: 1" = 20'

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А	В	С	D	Е	F	G
0.50	0.95	0.95	0.95	0.95	0.95	0.95
1291.2	0.0	0.0	0.0	0.0	0.0	0.0
725.9	81.3	52.9	70.5	47.0	75.3	969.4
84.0	6.4	4.2	5.6	3.7	6.0	76.7
0.083	0.083	0.083	0.083	0.083	0.083	0.083
1.78	0.00	0.00	0.00	0.00	0.00	0.00
0.083	0.083	0.083	0.083	0.083	0.083	0.083
1.0	1.0	1.0	1.0	1.0	1.0	1.0
0.083	0.083	0.083	0.083	0.083	0.083	0.083
1.0	1.0	1.0	1.0	1.0	1.0	1.0
0.4	0.4	0.4	0.4	0.4	0.4	0.4
0.47	0.10	0.10	0.10	0.10	0.10	0.10
1.25	1.25	1.25	1.25	1.25	1.25	1.25
0.67	0.67	0.67	0.67	0.67	0.67	0.67

		DEVELOPMENT PRE ABINGDC 1101 NORTH WAS CITY OF ALEXAN	
		DATE REVISION	
	APPROVED	DESIGN: ACS DRAWN: TJD	
O' 10' 20' 40' DCIATES, INC. AND MAY NOT BE USED OR ND/OR LAND SURVEYOR. ECORDS AND/OR FROM FIELD OBSERVATIONS.	DEPARTMENT OF PLANNING & ZONING DIRECTOR DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES SITE PLAN NO. 2017-0014 DIRECTOR DATE	DATE: DEC. 2017 ONSITE BMP DESIGN AND DETAILS	
TY "MISS UTÍLITY" AT 1-800-552-7001, 72 TO BE VERIFIED BY CONTRACTOR PRIOR TO E THE RESPONSIBILITY OF THIS OFFICE. DS AND SPECIFICATIONS OF THE CITY OF © 2017 R.C. FIELDS & ASSOCIATES, INC.	DIRECTOR DATE	SHEET 10 OF 15 FILE: 12-109	







SCALE: 1" = 20'



INSTRUMENT NO.

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WHERE:

SA = SURFACE AREA (SQ. FT.) CLEARINGHOUSE.

 $T_V = (RV)(A)/12$

REQUIRED: 151.8 SF PROVIDED: 90.0 SF

TREE WELL #2: TOTAL AREA TO BMP = 1,002 SQ.FT.

WATER QUALITY VOLUME REQUIRED: $T_{V} = (RV)(A)/12$

ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF ALEXANDRIA.

	FILLE FILLE <td< th=""><th></th></td<>	
	ANDREA SPRUCH Lic. No. 047863 FEBRUARY 13, 2018 STONAL ENGINE	
EVATIONS C D E 27.5 23.8 28.7 27.0 23.3 28.2	DEVELOPMENT PRELIMINARY SITE PLAN BBINGDON PLACE 1101 NORTH WASHINGTON STREET CITY OF ALEXANDRIA, VIRGINIA	
	DATE REVISION	
VED	DESIGN: ACS DRAWN: TJD	
rermit nu IING & ZONING R Date SPORTATION & ENVIRONMENTAL SERVICES 2017-0014 R Date	SCALE: 1" = 20' DATE: DEC. 2017 OFFSITE BMP DESIGN AND DETAILS	
ING COMMISSION DATE	SHEET 11 OF 15 FILE: 12-109	

2011 BMP Standards and Specification	ons	© 2013 Draft	BMP Standards and S	Specifications						
ProjecA4:M67t Name: Date:		Ab	ingdon Place 2/8/2018			CLEAR (Ctrl+S	R ALL hift+R)	data input cells constant values		
Site Information		Linear Dev	elopment Project?	No				calculation cells final results		
									•	
Post-Development Proje	ct (Treatr	nent Volu	me and Load	s)	I	-				
		Ente	er Total Disturbed	d Area <i>(acres)</i> →	1.06		BMP Design Spe	Check: cifications List:	2011 Std	ls & Specs
	Т	The site's net in	Maximum r ocrease in impervio	eduction required: ous cover (acres) is:	20% 0	La	nd cover areas ent	Linear project? ered correctly?	No √	
l	Po	ost-Developme	nt TP Load Reduct	ion for Site (lb/yr):	0.21		Total disturbed	l area entered?	\checkmark	
Pre-ReDevelopment Land Cover (a	cres) A Soils	B Soils	C Soils	D Soils	Totals	7				
Forest/Open Space (acres) undisturbed, protected forest/open space or reforested					0.00					
Managed Turf (acres) disturbed, graded for yards or other turf to be				0.14	0.14					
Impervious Cover (acres)				0.80	0.80					
Post-Development Land Cover (acr	es)					-				
Forest/Open Space (acres) undisturbed	A Soils	B Soils	C Soils	D Soils	Totals					
protected forest/open space or reforested Managed Turf (acres) disturbed, graded					0.00	=				
or yards or other turf to be				0.23	0.23	-				
Area Check	ОК.	OK.	ОК.	0.71 ОК.	0.94					
Constants Annual Rainfall (inches)	43		Runoff Coefficie	nts (Rv) A Soils	B Soils	C Soils	D Soils]		
Target Rainfall Event (inches) Total Phosphorus (TP) EMC (mg/L)	1.00 0.26		Forest/Open Space Managed Turf	0.02 0.15	0.03	0.04	0.05	-		
otal Nitrogen (TN) EMC (mg/L) Farget TP Load (Ib/acre/yr)	0.41	-	Impervious Cover	0.95	0.95	0.95	0.95			
LAND COVER SUMMARY P	PRE-REDEV				1	AND COVE	R SUMMARY F	POST DEVEL	OPMEN	ЛТ
Land Cover Summ	nary-Pre		-	Land Cover Summa	ary-Post (Final)	7	Land Cover Su	mmary-Post		Land Co
Pre-ReDevelopment	Listed	Adjusted ¹		Post ReDev. & Ne	w Impervious	1	Post-ReDev	elopment		Post-Develo
Forest/Open Space Cover (acres)	0.00	0.00	-	Cover (acres)	0.00	_	Cover (acres)	0.00		
% Forest	0%	0%		% Forest	0%	1	% Forest	0%		
Managed Turf Cover (acres)	0.14	0.14	-	(acres)	0.23	-	(acres)	0.23		
Weighted Rv(turf)	0.25	0.25	-	Weighted Rv (turf)	0.25	-	Weighted Rv (turf)	0.25		
Impervious Cover (acres)	0.80	0.80		Impervious Cover	0.71		ReDev. Impervious	0.71		New Impervior
Rv(impervious)	0.95	0.95	-	(acres) Rv(impervious)	0.95	-	Cover (acres)	0.95		(acres) Rv(impervi
% Impervious	85%	85%	-	% Impervious	75%	-	% Impervious	75%		
Total Site Area (acres)	0.94	0.94	-	Final Site Area (acres)	0.94	-	(acres)	0.94		
Treatment Volume on	0.85	0.85	-	Final Post Dev Site Rv	0.78	Troot		U.78	ad	
Treatment volume an				Final Post-		Treau	Post-ReDevelopment		au	Post-Develor
Pre-ReDevelopment Treatment Volume (acre-ft)	0.0663	0.0663		Development Treatment Volume (acre-ft)	0.0607		Treatment Volume (acre-ft)	0.0607		Treatment Vo (acre-ft
Pre-ReDevelopment Trootment Volume				Final Post-			Post-ReDevelopment	t		Post-Develop
(cubic feet)	2,889	2,889		Treatment Volume (cubic feet)	2,646		Treatment Volume (cubic feet)	2,646		Treatment Vo (cubic fee
Dro DoDovolonment TD Land			1	Final Post-		-	Post-ReDevelopment	t	-	Doct Days
(lb/yr)	1.82	1.82		Load (lb/vr)	1.66		Load (TP) (lb/yr)*	1.66		Load (Ib/
Pre-ReDevelopment TP Load per acre (Ib/acre/yr)	1.93	1.93		Final Post-Development TP Load per acre (lb/acre/yr)	1.77		Post-ReDevelopment TP Load per acre (lb/acre/yr)	1.77	<u> </u>	
Baseline TP Load (Ib/vr)							Max. Reduction Required	e e e e e e e e e e e e e e e e e e e		
(0.41 lbs/acre/yr applied to pre-redevelopment pervious land proposed for new impervio	tarea excluding ous cover)	0.39					(Below Pre- ReDevelopment Load)	20%		
Adjusted Land Cover Summary:							TP Load Reduction			TP Load Red
Pre ReDevelopment land cover minus pervious managed turf) acreage proposed for new imp	s land cover (fore. pervious cover.	st/open space or					Required for Redeveloped Area	0.21		Required fo
	-ReDevelopment	acreage (minus					(10/ 91)			(וט/ער)
Adjusted total acreage is consistent with Post-										
Adjusted total acreage is consistent with Post- acreage of new impervious cover). Column I shows load reduction reauriement fo	or new imperviou	s cover (based on								

	Nitr	ogen Loads (Informational Purposes Only)	
Pre-ReDevelopment TN Load (Ib/yr)	12.99	Final Post-Development TN Load (Post-ReDevelopment & New Impervious) (Ib/yr)	11.89

Drainage Area A

Drainage Area A Land Cover (acres)

Forest/Open Space (acres)

Managed Turf (acres)

Impervious Cover (acres)

	Stormwater Best Manageme	ent Practice	s (RR =	Runof	f Redu	ction)					
	Practice	Runoff Reduction Credit (%)	Managed Turf Credi Area (acres	Impe Cover) Area	ervious r Credit (acres)	Volum Upst Practio	e from ream ce (ft ³)	Runoff Reductio (ft ³)	n Vo	emaining Runoff lume (ft ³)	Total BMP Treatment Volume (ft ⁵
	3. Permeable Pavement (RR)										
	3.a. Permeable Pavement #1 (Spec #7)	45		0).05	(D	72		88	160
	6. Bioretention (RR)						I				
	6.a. Bioretention #1 or Micro-Bioretention #1 or Urban Bioretention (Spec #9)	40	0.01	0).02		0	32		49	81
	14. Manufactured Treatment Devices (no	o RR)									
	14.a. Manufactured Treatment Device- Hydrodynamic	0	0.03	0).53		0	0		1,851	1,851
		S	ite Res	ults (W	ater Q	uality	y Comp	oliance)			
		Area Che	ecks c	.A. A	D.A.	в	D.A. C		D.A. D	D.A.	E ARE/
	FOR	REST/OPEN SPACE	(ac)	D.00	0.0	D	0.00		0.00	0.00)
	IV	IPERVIOUS COVER	(ac)	D.71	0.00	D	0.00		0.00	0.00)
	IMPERVIOU	IS COVER TREATED) (ac) (ac)	0.60 0.23	0.0	0 D	0.00		0.00	0.00	
	MANAGED TU	RF AREA TREATED) (ac)	0.04	0.00	D	0.00		0.00	0.00)
		AREA CH	ECK	OK.	ОК		OK.		OK.	ОК	,
	Site Treatn	nent Volume ((ft ³)	.,646							
	Runoff Reduction Volume and TP	By Drainage A	rea								
			C 3	.A. A	D.A.	В	D.A. C		D.A. D	D.A.	E T(
	RUNOFF REDUCTION V TP LOAD AVAILABLE	OLUME ACHIEVED	b (ft²) b/vr)	104 1.66	0.00	D	0.00		0.00	0.00)
	TP LOAD REDUCT	TION ACHIEVED (II	b/yr)	0.32	0.00	D	0.00		0.00	0.00) (
	TP LOA	AD REMAINING (II	b/yr)	1.34	0.00	D	0.00		0.00	0.00)
	NITROGEN LOAD REDUCT	ION ACHIEVED (II	b/yr)	D.66	0.0	D	0.00		0.00	0.00) (
Summary-Post					1						<u> </u>
ent New Impervious	Т	otal Phosphor	rus	1.55	1						
	HINAL POST-DEVELOP TP LOAD REDUCT	TION REQUIRED (II	o/yr) b/yr)	D.21							
	TP LOAD REDUCT	TION ACHIEVED (II	b/yr)	D. <mark>32</mark>							
		AD REMAINING (Ib	/yr):	1.34	**						
	**	TARGET TP REDU	JCTION EXC	EEDED BY	0.11 LB/Y	EAR **					
	Total Nitrogen (For Infor	mation Purpos	ses)								
	POST-DEVEL	OPMENT LOAD (II	b/yr)	.1.89							
over 0.00	NITROGEN LOAD REDUCT REMAINING POST-DEVELOPMENT N	ION ACHIEVED (II	b/yr) b/yr)	0.66 .1.24							
	Drainage Area A			A Soils	B 9	Soils	C S	oils	D So	ils	Total Are
	Forest/Open Space undisturbed, protected	Area (acro	es)	0.00	0	0.00	0.	00	0.00)	Runoff F
	Managed Turf disturbed, graded for vards or of	ther Area (acro	es)	30	0	55).00	0.	0	0.23	3	Vol
	turf to be mowed/managed	CN		39		61	7	4	80		
	Impervious Cover	Area (acro CN	es)	0.00 98	0).00 98	0.	00 8	0.71 98	L	
								-	CN _{(D.4}	A. A)	
nt									94		
ne			1-ye	ar storm	2-year	storm	10-year	storm			
	RV _{Developed} (watershed-inch) with no	o Runoff Reduct	tion*	2.06	2	.54	4.	51			
	RV _{Developed} (watershed-inch) with	h Runoff Reduct	tion*	2.03	2	<mark>5</mark> 1	4.	47			
nt ne		Adjusted (CN*	94		94	9	4			
	STORM WATER QUALITY NA	RRATIVE (C	ITY CO	de sec	CTION	13–1	09E C(OMPLIAN	ICE):		
t TP	THE PROPOSED REDEVELOPMENT (APP	PROXIMATELY 1.	06 ACRES	OF DIST	URBANCE)) GENER	RATES A	NET DECRI	EASE O	F IMPERVIOU	JS AREA FR
	CONDITIONS. PER CITY CODE SECTION	13-109E-(2)(a), DEVELO	MENT OF	PRIOR	DEVELOP	ED LANDS	DISTURBIN		TER THAN	ACRE AND
I	INCREASE IN IMPERVIOUS AREA MUST F	RESULT IN A 202	% DECREAS	e in PHO	SPHORUS	LUADIN	G FROM T	HE PRE-D	EVELOPN	NENT TOTAL	PHUSPHORUS
	THE VIRGINIA RUNOFF REDUCTION MET	HOD WAS UTILIZ	ZED TO DE RATE A N	FRMINE	THE STOR	M WATE	R QUALITY		IENT PE		REQUIREMEN
									ᄂᅟᄓᄢᄃ		

B Soils

C Soils

A Soils

D Soils

0.23

0.71

Totals

0.00

0.23

0.71

Total 0.94

Land Cover Rv

0.00

0.25

0.95

COMPUTATIONS PROVIDED ON THIS SHEET DEMONSTRATE A NET DECREASE OF IMPERVIOUS AREA. MULTIPLE BMP FACILITIES ARE ALSO DEVELOPMENT. THIS WILL RESULT IN A 26.4% ([1-(1.34/1.82)]*100% = 26.4%) REDUCTION OF PHOSPHOROUS LOAD FROM THE SITE WHICH MINIMUM REQUIREMENT OF 20% (SEE SPREADSHEET ON THIS SHEET). THEREFORE, THE WATER QUALITY MANAGEMENT PERFORMANCE REQUIREMEN DEVELOPMENT PER CITY CODE SECTION 13-109E-(4)(a) HAVE BEEN MET.

IN ADDITION, 0.67 ACRES OF THE 0.71 ACRES OF ON-SITE IMPERVIOUS AREA IS PROPOSED TO BE TREATED WITH THIS DEVELOPMENT, W QUALITY DEFAULT VOLUME TREATMENT STANDARDS IN SECTION 13-110 OF THE ZONING ORDINANCE. A CONTRIBUTION TO THE ALEXANDRIA WATE FUND WILL BE MADE FOR THAT PORTION OF THE WATER QUALITY VOLUME NOT TREATED IN COMPLIANCE WITH CITY CODE SECTION 13-109E-(5)



THIS DRAWING IS A SERVICE DOCUMENT OF R. REPRODUCED WITHOUT THE WRITTEN PERMISSION (EXISTING UTILITIES SHOWN ON THIS PLAN TAKEN FOR EXACT LOCATIONS OF EXISTING UNDERGROUT HOURS BEFORE THE START OF ANY EXCAVATION O LOCATION AND DEPTH OF ALL EXISTING UNDERG CONSTRUCTION. INTERFERENCE OR DISRUPTION OF ALL CONSTRUCTION SHALL CONFORM TO THE ALEXANDRIA.

							<u> </u>
	Total F	CLEAR BMP Phosphorus Ava Post Developmen	AREAS ailable for Remova nt Treatment Volu	ll in D.A. A (lb/yr) me in D.A. A (ft ³)	1.66 2,646	Select from dropdown lists-	ASSOCIATES, INC. URVEYING • PLANNING www.rcfassoc.com (703) 549-6422
VIP ent (ft ³)	Phosphorus Removal Efficiency (%)	Phosphorus Load from Upstream Practices (Ib)	Untreated Phosphorus Load to Practice (Ib)	Phosphorus Removed By Practice (Ib)	Remaining Phosphorus Load (Ib)	Downstream Practice to be Employed	 LAND S LAND S 1 Street ia 22314
	25	0.00	0.10	0.06	0.04		NG shingto
	25	0.00	0.05	0.03	0.02		IGINEER 00 S. Wa
	20	0.00	1.16	0.23	0.93		Air A
REA C OK OK OK OK TOT/ 104 1.66 0.32 1.34	HECK						ANDREA SPRUCH Lic. No. 047863 B FEBRUARY 13, 2018 B STONAL ENGLISSION VIENCE
Area (ff Red Volum	(acres): 0.94 luction he (ft ³): 104						DEVELOPMENT PRELIMINARY SITE PL ABINGDON PLACE 1101 NORTH WASHINGTON STREET CITY OF ALEXANDRIA, VIRGINIA
From ID Re 20s L 20s L Ents 0 Pf 31 IS	PRE-DEVELOPMEN SULTING IN NO NE OAD. FOR THIS PROJEC ROPOSED WITH THI GREATER THAN TH	T T S E					DATE REVISION
NHICH Er Q 5) An	I MEETS THE WATE UALITY IMPROVEMEN ND SECTION 13-110	R T D.					
R.C. OF	FIELDS & ASSOC THE ENGINEER ANI	IATES, INC. AND D/OR LAND SUR	D MAY NOT BE VEYOR.	USED OR BUATIONS	DIRECTOR TIMENT OF PLANNING & DIRECTOR TIMENT OF TRANSPORTA PLAN NO.	D MIT NO zoning date fion & environmental services 2017-0014	DESIGN: ACS DRAWN: TJD SCALE: NO SCALE DATE: DEC. 2017 - STORMWATER QUALITY COMPLITATIONIS
UND OR (RGRO	M AVAILABLE REC UTILITIES, NOTIFY CONSTRUCTION. UND UTILITIES TO	MISS UTILITY	AT 1-800-552-	PRIOR TO	DIRECTOR HAIRMAN, PLANNING CO	DATE DATE	
F SA CUI	ME WILL NOT BE	THE RESPONSIBI	LITY OF THIS OFFI CATIONS OF THE FIELDS & ASSOCIATES,	ICE. DATE CITY OF INC. INSTRU	RECORDED	DEED BOOK NO. DATE	SHEET 12 OF 15



STORMWATER OUTFALL NARRATIVE:

PRE-DEVELOPMENT CONDITIONS: THE 0.96 ACRE SITE IS LOCATED IN THE POTOMAC RIVER WATERSHED. IN EXISTING CONDITIONS, THE SITE CONSISTS OF A HOTEL WITH ASSOCIATED PARKING AND VERY LITTLE LANDSCAPED OPEN SPACE. THE PROJECT SITE HAS TWO OUTFALL POINTS.

OUTFALL #1: THE MAJORITY OF THE PROJECT SITE DRAINS TO THE EXISTING STORM SYSTEM IN THE SECOND STREET RIGHT-OF-WAY. RUNOFF FROM THE BUILDING AND THE MAJORITY OF THE SURFACE PARKING IS COLLECTED IN AN UNDERGROUND STORM SEWER SYSTEM THAT CONNECTS TO THE CITY MAINTAINED STORM SEWER SYSTEM LOCATED IN THE SECOND STREET RIGHT-OF-WAY. DRAINAGE IS CONVEYED WEST WHERE IS JOINS THE COMBINED SEWER SYSTEM WITHIN 15' OF THE PROJECT SITE. AT THIS POINT THE RUNOFF CONTINUES SOUTH IN THE EXISTING 52" X 42" COMBINED SEWER AND OUTFALLS TO THE POTOMAC RIVER.

OUTFALL #2: THE REMAINDER OF THE RUNOFF FROM THE PROJECT SITE EXITS THE PROPERTY AS NON-CONCENTRATED SHEET FLOW. A PORTION OF THE RUNOFF FROM THE PARKING LOT AND LANDSCAPED AREA FLOWS NORTHWEST TO THE EAST ABINGDON STREET RIGHT-OF-WAY AND IS COLLECTED BY STRUCTURE EX. 14. RUNOFF IS THEN CONVEYED NORTH VIA THE CITY MAINTAINED STORM SYSTEM WHERE IT JOINS THE EXISTING COMBINED SEWER SYSTEM APPROXIMATELY 75' FROM THE PROJECT SITE. DRAINAGE IS THEN CONVEYED SOUTH TO JOIN THE RUNOFF DESCRIBED IN OUTFALL #1 AND DISCHARGES TO THE POTOMAC RIVER.

POST-DEVELOPMENT CONDITIONS:

THE REDEVELOPMENT OF THE PROJECT PROPOSES 19 TOWNHOUSE-STYLE CONDOMINIUM UNITS AND IMPROVED STREETSCAPE/OPEN SPACE. OVERALL IMPERVIOUS AREA WILL DECREASE WITH THE PROPOSED CONSTRUCTION. THE SITE WILL MAINTAIN TWO OUTFALL POINTS AS IN PRE-DEVELOPMENT CONDITIONS.

OUTFALL #1: AS IN EXISTING CONDITIONS, RUNOFF FROM THE PROPOSED BUILDINGS AND THE PROPOSED DRIVE AISLE IS COLLECTED IN AN UNDERGROUND STORM SEWER SYSTEM THAT CONNECTS TO THE CITY MAINTAINED STORM SEWER SYSTEM LOCATED IN THE SECOND STREET RIGHT-OF-WAY. DRAINAGE IS CONVEYED WEST WHERE IS JOINS THE COMBINED SEWER SYSTEM WITHIN 15' OF THE PROJECT SITE. AT THIS POINT THE RUNOFF CONTINUES SOUTH IN THE EXISTING 52" X 42" COMBINED SEWER AND OUTFALLS TO THE POTOMAC RIVER.

OUTFALL #2: A SMALL PORTION OF RUNOFF FROM THE LANDSCAPED OPEN SPACE WEST OF THE PROPOSED BUILDINGS EXITS THE SITE AS SHEET FLOW AND IS CAPTURED BY AN EXISTING CURB INLET (STRUCTURE EX. 14) WITHIN THE EAST ABINGDON DRIVE RIGHT-OF WAY. THIS SYSTEM CONTINUES SOUTH VIA THE CITY MAINTAINED COMBINED SEWER TO JOIN THE RUNOFF FROM OUTFALL #1 AS IN EXISTING CONDITIONS.

CONCLUSION:

THE POINT OF OUTFALL FOR OUTFALL #1 IS THE PROPOSED CURB INLET (EX 4) LOCATED SOUTH OF THE PROPERTY WITHIN SECOND STREET. THE POINT OF OUTFALL FOR OUTFALL #2 IS THE EXISTING CURB INLET (EX 14) LOCATED NORTHWEST OF THE PROPERTY WITHIN EAST ABINGDON DRIVE. THE LIMITS OF ANALYSIS INCLUDES ANALYZING THE OUTFALL SYSTEM 150' BEYOND THE POINT WHERE THE OUTFALL DRAINAGE AREA IS JOINED BY ANOTHER WATERSHED GREATER THAN 90% OF THE OUTFALL DRAINAGE AREA (POINT OF CONFLUENCE). FOR OUTFALL #1 THE END OF ANALYSIS IS THE EXISTING MANHOLE (EX 23) LOCATED SOUTH OF SECOND STREET AND FOR OUTFALL #2 IS THE EXISTING MANHOLE (EX 20) LOCATED IN THE GRASS FIELD BETWEEN WASHINGTON STREET AND EAST ABINGDON DRIVE. OUTFALL ANALYSIS COMPUTATIONS AND DRAINAGE AREA MAP WILL BE PROVIDED WITH THE FINAL SITE PLAN SUBMISSION.

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

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

STRU	CTURE	m	4	R	E			0	R				6	z	F	F		6	Т
FROM	ТО	INC. DRAINAGE AREA (AC)	ACCUM. DRAINAGE ARE (AC)	CURVE NUMBE (CN)	Rainfall dept (IN)	T _c (MINUTES)	INCREMENTAL "Q" (CFS)	ACCUMULATEI "Q" (CFS)	PIPE DIAMETE (IN)	SLOPE (%)	.ч.	MAXIMUM "Q" (CFS)	MAXIMUM VELOCITY (FPS	LENGTH OF RU (FT)	UPPER INVER	LOWER INVER	FALL (FT)	NORMAL VELOCITY (FPS	NORMAL DEPT
EX14	EX20	1.96	1.96	87	5.20	5	8.52	8.52	18	9.98%	0.013	33.18	18.82	40.2	20.94	16.93	4.01	5.32	0.64
EX20	EX21	37.45	39.41	87	5.20	5	162.74	171.26	52X42	0.54%	0.013	130.82	8.89	197.7	16.93	15.86	1.07	5.32	0.64
EX21	EX22	0.62	40.03	87	5.20	5	2.69	173.95	52X42	0.54%	0.013	130.39	8.87	180.4	15.86	14.89	0.97	9.33	1.00
EX4	EX22	6.77	6.77	87	5.20	5	29.42	29.42	15	9.11%	0.013	19.50	15.93	48.3	19.29	14.89	4.40	9.33	1.00
EX22	EX1	0.00	46.80	87	5.20	5	0.00	203.37	52X42	0.54%	0.013	130.63	8.88	31.5	14.89	14.72	0.17	9.33	1.00
EX1	EX23	1.02	47.82	87	5.20	5	4.43	207.80	52X42	0.51%	0.013	127.50	8.67	163.4	14.67	13.83	0.84	9.33	1.00

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			ENGINEERING • LAND SURVEYING • PLANNIN	730 S. Washington Street www.rcfassoc.co Alexandria, Virginia 22314 (703) 549-642	
	PROFIEE	ANDREA SPI Lic. No. 047 BRUARY 13 STONAL	0,7 RUCH 863 5, 201	RCI HA	ch
	DEVELOPMENT PRELIMINARY SITE PLAN	ABINGDON PLACE	1101 NORTH WASHINGTON STREET	CITY OF ALEXANDRIA, VIRGINIA	
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-	SHEET	13	OF	15	1

FILE: 12-109

APPROVED special use permit no
DEPARTMENT OF PLANNING & ZONING
DIRECTOR

department of transportation & environme site plan no. $2017-00$	ntal services)14
DIRECTOR	DATE
CHAIRMAN, PLANNING COMMISSION	DATE
DATE RECORDED	

DEED BOOK NO.

DATE

DATE





+36.5 +38.7	OBJECT HT.=3.5' HH.=3.5' HH.=3.5' NDH DESIGN SPEED: 30 MDH		Image: State stat
			DEVELOPMENT PRELIMINARY SITE PLAN BEDENTARIA 13' 5018 PLAN ABINGDON PLACE 1101 NORTH WASHINGTON STREET CITY OF ALEXANDRIA, VIRGINIA
+ 5+00 + 5+00 R.C. FIELDS & ASSOCIATES, INC. AND MAY NOT BE USED OR A OF THE ENGINEER AND/OR LAND SURVEYOR. N FROM AVAILABLE RECORDS AND/OR FROM FIELD OBSERVATIONS. DUND UTILITIES, NOTIFY "MISS UTILITY" AT 1-800-552-7001, 72 OR CONSTRUCTION. ERGROUND UTILITIES TO BE VERIFIED BY CONTRACTOR PRIOR TO OF SAME WILL NOT BE THE RESPONSIBILITY OF THIS OFFICE. E CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF @ 2017 R.C. FIELDS & ASSOCIATES, INC.	1000000000000000000000000000000000000	NO	DATE REVISION













SCALE: 1"=50'

×	47.38
7.16	20.00
TOWER Width Track	203
Lock to Steering	Lock Time Angle
FIRE TRU (NTS)	ICK DETA







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Project Num	ber:	AP-1		

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APPROVED

DEPARTMENT OF PLANNING & ZONING

SPECIAL USE PERMIT NO.

DIRECTOR

DIRECTOR

CHAIRMAN, PLANNING COMMISSION

DATE RECORDED

INSTRUMENT NO.

site plan no. <u>2017–0014</u>

DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES

DATE

DATE

DATE

DEED BOOK NO. DATE

REQUIRED LANDSCAPE NOTES:

1. All protection and preservation measures for existing vegetation, including maintenance shall be approved by the City Arborist in field prior to commencement of any site disturbing activity.

2. Specification for all plantings shall be in accordance with the current and most up to date edition of ANSI-Z60.1, "The American Standard for Nursery Stock" as produced by the American Association of Nurserymen; Washington, D.C.

3. The applicant has made suitable arrangements for pre-selection tagging, pre-contract growing, or is undertaking specialized planting stock development with a nursery or grower that is conveniently located to the project site, or other procedures that will ensure availability of specified materials. In the event that shortages and/or inability to obtain specified plantings occurs, remedial efforts including species changes, additional plantings and modification to the landscape plan shall be undertaken by the applicant. All remedial efforts shall, with prior approval by the city, be performed to the satisfaction of the Directors of Planning & Zoning, Parks & Cultural Activities and Transportation & Environmental Services.

4. 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 the time of construction) of "Landscape Specification Guidelines" as produced by the Landscape Contractors Association of Maryland, District of Columbia and Virginia; Gaithersburg Maryland.

5. Prior to commencement of landscape installation / planting operations, a pre-installation / construction meeting will be scheduled with the City's Arborist and Landscape Architects to review the scope of installation procedures and processes.

6. Maintenance for this project shall be performed in perpetuity, in compliance with City of Alexandria Landscape Guidelines and / or as conditioned by project approval.

7. A certification letter for tree wells, tree trenches and plantings above structure shall be provided by the project's Landscape Architect. The letter shall certify that all below grade construction is in compliance with approved drawings and specifications. The letter shall be submitted to the City Arborist and approved prior to the last and final Certificate of Occupancy for the project. The letter shall be submitted by the owner / applicant / successor and sealed and dated as approved by the project's Landscape Architect.

8. As-built drawings for this landscape and / or irrigation / water management system will be provided in compliance with City of Alexandria Landscape Guidelines. 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.

SUPPLEMENTAL LANDSCAPE NOTES:

1. All street trees shall be pruned with a minimum of 6 feet of clear stem.

2. The landscape plantings shown on this plan are for the approximate placement of plant material on the site.

3. Prior to offering a final bid to perform the landscaping shown on this plan, the Landscape Contractor shall be responsible to notify the Owner of any conflicts between these notes and any subsequent Project Specification Booklet which may be provided to the Landscape Contractor.

4. The Landscape Contractor shall be responsible for all aspects of the final plant installation including, but not limited to:

- a. Confirmation of species availability or replacement in accordance with the procedures noted in paragraph #3 of the Required Landscape Notes found on this sheet. b. Confirmation of the location of all utilities.
- c. Adjustment of all landscaping as necessary to achieve an appropriate separation (as required by the City,
- Governing Agencies and / or the appropriate Utility Company) from all utilities and their easements. d. Notification of the Owner of any suspected conflict with an existing or proposed utility prior to planting. e. Creation of a maintenance program for all landscaping - the Landscape Contractor shall notify the Owner
- in writing of all maintenance obligations.

5. The Landscape Contractor shall work with the Owner to provide the appropriate sod and soil amendment requirements for this site. This shall not be the responsibility of TWS Design, Inc.

6. The plant materials specified on this plan are those which are referenced in the City of Alexandria Landscape Guidelines and / or are those found to be readily available at local plant sources. These plants have a proven track record of reliability in this area. A Landscape Contractor's failure to provide the appropriate pest control, disease control, enough water, proper fertilizing, proper soil amendments and favorable soil conditions is not under the control of TWS Design and are typically the cause of plant failure. Therefore, TWS Design shall not be responsible for the repair, replacement or maintenance of any landscaping.

7. The Owner of fee title to any property on which plant material has been established in accordance with this landscape plan shall be responsible for the repair, maintenance and replacement of plant material as required by the City of Alexandria once the guarantee period has expired.

8. Guarantee: During all phases of this work and for a period of one (1) year after "Final Acceptance", the Landscape Contractor shall replace at his sole expense any plants(s) which deteriorates in health and appearance so as to become a lesser specification and / or grade from that which was originally installed. All plant replacements shall be made with the same species, size and plant grade unless otherwise directed by the Owner. During the guarantee period, the Landscape Contractor shall periodically inspect the plantings and be responsible for notifying the Owner in writing of any changes he feels are necessary in the maintenance program. This arrangement will in no way relieve the Landscape Contractor of his responsibility to replace plantings that die during the guarantee period.

9. Acceptance: Upon completion of all plant installation specified on this plan, the Landscape Contractor shall provide written notice to the Owner requesting a final inspection to verify completion / acceptance of the work. All discrepancies will be noted and it will be the Landscape Contractor's obligation to remedy same, prior to "Final Acceptance". A "Final Acceptance" letter will be issued by the Owner and the plant guarantee period will commence with the date of said acceptance letter.

10. The Landscape Contractor shall be responsible for all watering of plants and sod until "Final Acceptance" after which the Landscape Contractor shall provide the Owner with a written maintenance program which addresses watering requirements.

11. The Owner shall be responsible for all regulatory approvals regarding the landscaping shown on this sheet.

NOTES

OFFSITE PLANT SCHEDULE

TREES	CODE	<u>QTY</u>	BOTANICAL NAME / COMMON NAME	CONT	CAL	CROWN COVERAGE	TOTAL
\bigcirc	AB	2	Acer rubrum `Bowhall` / Bowhall Maple	-	2-2.5" Cal	2 @ 500 SF PER TREE	1,000 SF
\cdot	UV	8	Ulmus americana `Valley Forge` / American Elm	-	2-2.5" Cal	8 @ 1,250 SF PER TREE	10,000 SF
SHRUBS	CODE	QTY	BOTANICAL NAME / COMMON NAME	SIZE	FIELD2		
	ADH	39	Azalea x `Dorothy Hayden` / Dorothy Hayden Azalea	18"-24"			
•	DB	5	Distylium x `Blue Cascade` / Blue Cascade Distillium	24"-30"			
\bigcirc	LG	2	Lagerstroemia `Gamad I` / Cherry Dazzle Crape Myrtle	24"-30"			
\bigcirc	RF2	5	Rosa x `Flower Carpet Pink` / Pink Flower Carpet Rose	3 gal			

ONSITE PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL NAME / COMMON NAME	CONT	CAL	SIZE	CROWN COVERAGE	TOTAL
	UV	4	Ulmus americana `Valley Forge` / American Elm		2-2.5" Cal		4 @ 1,250 SF PER TREE	5,000 SF
EVERGREEN TREES	CODE	<u>QTY</u>	BOTANICAL NAME / COMMON NAME	CONT	CAL	SIZE	CROWN COVERAGE	TOTAL
	IN	1	llex x `Nellie R Stevens` / Nellie Stevens Holly	-		8`	1 @ 250 SF PER SHRUB	250 SF
SHRUBS	CODE	<u>QTY</u>	BOTANICAL NAME / COMMON NAME	SIZE	FIELD2	FIELD3	CROWN COVERAGE	TOTAL
	ADH	25	Azalea x `Dorothy Hayden` / Dorothy Hayden Azalea	18"-24"				
\bigcirc	BG	10	Buxus x `Green Gem` / Green Gem Boxwood	18"-24"			10 @ 2 SF PER SHRUB	20 SF
\bigcirc	СР	8	Cephalotaxus harringtonia prostrata / Prostrate Plum Yev	/ 24"-30"			8 @ 2 SF PER SHRUB	16 SF
\bigotimes	DV	14	Distylium x `Vintage Jade` / Vintage Jade Distylium	24"-30"			14 @ 2 SF PER SHRUB	28 SF
	EG	4	Elaeagnus x ebbingei `Gilt Edge` / Ebbing Silverberry	30"-36"			4 @ 2 SF PER SHRUB	8 SF
\bigcirc	IH	26	llex crenata `Helerii` / Heler Japanese Holly	24"-30"			26 @ 2 SF PER SHRUB	52 SF
\bigcirc	IB	51	llex x meserveae `Blue Princess` TM / Blue Princess Holl	y 24"-30"			51 @ 2 SF PER SHRUB	102 SF
	JS2	8	Juniperus chinensis sargentii / Sargent Juniper	24"-30"			8 @ 2 SF PER SHRUB	16 SF
\bigcirc	LG	12	Lagerstroemia `Gamad I` / Cherry Dazzle Crape Myrtle	24"-30"			12 @ 2 SF PER SHRUB	24 SF
\bigcirc	LP	2	Loropetalum chinense `Peack` / Purple Pixie Loropetalun	า 18"-24"				
	POL	19	Prunus laurocerasus `Otto Luyken` / Luykens Laurel	24"-30"			19 @ 2 SF PER SHRUB	38 SF
\bigcirc	RF2	5	Rosa x `Flower Carpet Pink` / Pink Flower Carpet Rose	3 gal				
	TD	13	Taxus x media / Dense Yew	30"-36"			13 @ 2 SF PER SHRUB	26 SF
\odot	VP	10	Viburnum x pragense / Prague Viburnum	30"-36"			10 @ 2 SF PER SHRUB	20 SF
ANNUALS/PERENNIALS	CODE	<u>QTY</u>	BOTANICAL NAME / COMMON NAME	SIZE	FIELD2	FIELD3		
\odot	LV	22	Liriope muscari `Variegata` / Variegated Lily Turf	4" pot				
	SITE A CROW TREE ONSIT	NREA: /N CO\ SAVE TE CRC	4 /ERAGE REQUIRED @ 25%: 10 CROWN COVERAGE:)WN COVERAGE PROVIDED: TREES 5 SHRUBS),724 SF),181 SF 650 SF 250 SF 442 SF				
	total Perci	L CRON	WN COVERAGE: 66 GE OF CROWN COVERAGE PROVIDED:	,342 SF 15.6%				
	OFFSI DISTU	TE CR RBED	OWN COVERAGE NOT INCLUDED: 1' SITE AREA: 4	1,000 SF 5.768 SF				

PLANT TABULATION

B

	TWSDesign Inc. Landscape Architecture
	1835 Clovermeadow Drive Vienna, Virginia 22182 703.938.0308 Fax.800.350.9226
	OTINE ALTH OF TINA Woods Smith No.000451 2/13/2018 CAPE ARCHING
	TOLL BROTHERS, INC. 5162-A JACOBS CREEK PLACE HAYMARKET, VA 20169
	Toll Brothers
	Owner
	ABINGDON PLACE
	City of Alexandria
	Job Name
	REVISIONS
	6 5 4 3 2 1 PLANTING REVISIONS 2/13/18 No. Description
	LANDSCAPE PLAN
	Drawing Title
	Project Number: AP-1 Scale: NTS Date: December 24, 2017
FE	Sheet No. of L3 3

APPROVED SPECIAL USE PERMIT NO.	
DEPARTMENT OF PLANNING & ZONING	
DIRECTOR	DATE
department of transportation & environmental site plan no. $2017-0014$	SERVICES
DIRECTOR	DATE
CHAIRMAN, PLANNING COMMISSION	DATE
DATE RECORDED	
INSTRUMENT NO. DEED BOOK NO.	DATE

B

A

FOURTH FLOOR (TYP) UNITS 2-5, 8-9 <u>DEDUCTIONS:</u> 59 SQ. FT.

THIRD FLOOR (TYP)

74 SQ. FT.

DEDUCTIONS:

A.F.G. = 32.32

B

VCS '83		
		RUST ORLING A R C H I T E C T U R E 1215 CAMERON STREET ALEXANDRIA, VA 22314 T - 703.836.3205 F - 703.548.4779 admin@rustorling.com www.rustorling.com
		Hartranft Lighting Design
		1101 N. Washington Street Alexandria, Virginia
		DATE DESCRIPTION
		PRELIMINARY SITE PLAN 12.18.17
	APPROVED SPECIAL USE PERMIT NO DEPARTMENT OF PLANNING & ZONING	EXTERIOR LIGHTING - LAYOUT
	DIRECTOR DATE DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES SITE PLAN NO. 2017-0014 DIRECTOR DATE CHAIRMAN, PLANNING COMMISSION DATE DATE	sheet no.
0' 10' 20' 40'	INSTRUMENT NO. DEED BOOK NO. DATE	

HARTRANFT LIGHTING DESIGN, LLC Andrea Hartranft andrea@adhlighting.com Kathleen Moser katy@adhlighting.com

ARCHIT	ECTURAL LIGHTING FIXTURE SCHEDULE		REVISION: REV.# NO. MM DD YYYY
PROJECT: /	bingdon	PROJECT #:	DATE: 12 13 2017
NOTES			
1	SHOULD THE CONTRACTOR WISH TO HAVE PRODUCTS OTHER THAN THOSE SPECIFIED CONSIDERED, THE ITEMS MUST BE SUBMITTED (14) DAYS IN ADVANCE OF THE BID. F BE SUPPLIED.	AILURE TO SUBMIT WITHIN THAT DEADLINE C	CONSTITUTES A GUARANTEE THAT THE SPECIFIED PRODUCTS \
2	CONTRACTOR SHALL PROVIDE A COMPLETE LIST OF ALL LAMPS WHICH WILL BE FURNISHED ON THE PROJECT. THIS LIST SHALL BE ORGANIZED ALPHABETICALLY BY LUMINA ORDERING CODE OF EACH LAMP.	RE TYPE INDICATED ON THE LUMINAIRE SCH	EDULE, AND INCLUDE THE MANUFACTURER AND EXACT MODEL
			TATION

THE CONTRACTOR SHALL PROVIDE AN ADDITIONAL 10% OF ALL LAMPS LISTED AT PROJECT TURN OVER. LAMPS ARE FOR SPARE REPLACEMENT LAMPS. LIST OF SPARE LAMPS TO BE INCLUDED IN SUBMITTAL DOCUM

4 ALL EMERGENCY AND EXIT LIGHTING SHALL BE DESIGNED AND SPECIFIED BY THE ELECTRICAL ENGINEER

0-10V DIMMING REQUIRES 5 WIRES. 5 CONFIRM WITH ARCHITECT THE 6

EXACT MOUNTING HEIGHT AFF CONTRACTOR MUST PROVIDE UNIT PRICING TO THE ARCHITECT- FOR EACH FIXTURE TYPE COMPLETE WITH ALL ACCESSORIES AND LAMP.

		LAMP									MOUNT	ING	
FIXTURE TYPE	DESCRIPTION		MANUFACTURER	CATALOG NUMBER	POWER SUPPLY	SYSTEM WATTS	VOLTS	CONE	APER. SIZE	SURFACE	RECESS	DEPTH	NOTES
HEX-A	SCONCE AT ENTRY	1 - GC REPLACEMENT LED, 97965 10A19DIM/830; 1150 L, 3000K	STERNBERG LIGHTING	6913 FHC HPS35MED	DIMMABLE	10	BY EE	N/A	N/A	x			CONFIRM FINISH
HEX-B	POST LIGHT	1 - GC REPLACEMENT LED, 97965 10A19DIM/830; 1150 L, 3000K	STERNBERG LIGHTING	6935 FHC HPS35MED	DIMMABLE	10	BY EE	N/A	N/A	x			CONFIRM FINISH
HEX-C	POLE LIGHT ON STREET	INTERGRAL LED, 9705 L, 3000K	PHILIPS HADCO	TXF9 64 G2 N GF 3 W	INTERGRAL	70	BY EE	N/A	N/A	x			CONFIRM FINISH
HEX-D	SCONCE AT BACK ENTRY	1 - GC REPLACEMENT LED, 97965 10A19DIM/830; 1150 L, 3000K	STERNBERG LIGHTING	4016 MED HPS35MED	DIMMABLE	10	BY EE	N/A	N/A	x			CONFIRM FINISH

NOTE: FIXTURES CAN BE SUBSITUTED WITH EQUIVALENT, APPROVED BY THE BAR

Serreral Lighting	Looveley due		
SPECIFICATION	\$		
		9786S	
		100000000	
Type	Alli	£7.9	A (#
Base	E28	E26	E26
Pawar (W)	10	13	13
Voltage - Frequency	120V 60Hz	123V 60Hz	123V 80Hz
Dalar Tomp. (AN26)	Jest: White 272200	Warn White 82204	Katurni White 4003R
CRI (Ra) (typ.)	82	82	82
Typical Lumons (im)	1100	1133	1820
Efficacy (LPW)	- 10	115	120
Boam Angia	340,	340,	240*
Dimmable	Yes	Yes	Yes
Pawar Fastor	2.8	2.8	0.8
Rated Lifetime - L70 (hrs.)	25,030	25,000	25,300
Dia. z MOL	2.35' x4.31'' (Mari 17mm)	2.36 (x4.31) (254117mm)	3.36"sel.91" (20x117mm)
Weight (lb. / g)	0.26lb. / 117g	0.28lo. / 17g	0.28lb / 117g

	RUST ORLING ARCHITECTURE 1215 CAMERON STREET ALEXANDRIA, VA 22314 T - 703.836.3205 F - 703.548.4779
	admin@rustorling.com www.rustorling.com Hartranft Lighting Design
	1101 N. Washington Street Alexandria, Virginia
	REVISIONS
	PRELIMINARY SITE PLAN 12.18.17 EXTERIOR
APPROVED SPECIAL USE PERMIT NO DEPARTMENT OF PLANNING & ZONING DIRECTOR DATE DEPARTMENT OF TRANSPORTATION & ENVIRONMENTAL SERVICES SITE PLAN NO. 2017-0014	LIGHTING - SCHEDULE AND CUT SHEETS SHEET NO.
SITE PLAN NO. <u>ZUI/-UUI4</u> 	LP02

APPROVED special use permit no	
DEPARTMENT OF PLANNING & ZONING	
DIRECTOR DATE	
department of transportation & environmental services site plan no. $2017-0014$	
DIRECTOR DATE	