

# STATISTICAL DATA

PROJECT SITE ADDRESS 7851 POCAHONTAS TRAIL JAMES CITY COUNTY PARCEL ID.

ZONING

PROJECT SITE INCLUDED IN THE PSA OF JAMES

TOTAL SITE AREA

TOTAL DROJECT AREA

TOTAL DISTURBED AREA

TOTAL PROJECT OF DEVELOPMENT IMPERVIOUS AREA

INCREASE IN SITE IMPERVIOUS AREA

INCREASE IN SITE IMPERVIOUS AREA

INCREASE IN SITE IMPERVIOUS AREA

3,841 S.F./o.6 CITY COUNTY
382 ACRES
170,500 sq.ft./3.91 ACRES
170,500 sq.ft./2.40 ACRES
78,160 sq.ft./1.79 ACRES (45.8% OF PROJECT AREA)
82,001 sq.ft./1.88 ACRES (48.1% OF PROJECT AREA)
3,841 S.F./0.09 AC. (2.3% OF PROJECT AREA) HYDROLOGIC UNIT CODE (HUC) 6TH ORDER NWBD HUC CODE = JL35 HEIGHT OF ATTRACTION NOT TO EXCEED BUILDING 20
BUILDING CLASSIFICATION
BUILDING CONSTRUCTION TYPE
BUILDING HEIGHT: TYPE IIIB BUILDING AREA (TOTAL NEW FOOTPRINT AREA)
BUILDING AREA (TOTAL NEW FOOTPRINT AREA)
BUILDING CLASSIFICATION
BUILDING CONSTRUCTION TYPE
BUILDING HEIGHT:
BUILDING AREA (TOTAL NEW FOOTPRINT AREA)
147 sq.ft. BUILDING CLASSIFICATION

NO PART OF THE EXPANSION SHALL EXCEED 60' (ABOVE FINISHED GRADE) IN HEIGHT, PURSUANT TO SECTION 24—418(c) OF THE ZONING ORDINANCE WITH THE EXCEPTION OF THAT PERMISSIBLE PER WAIVER HW—0002—2013 FOR BUSCH GARDENS FESTA ITALIA ATTRACTION.

ANY SIGNS CONSTRUCTED IN CONJUNCTION WITH THIS PROJECT THAT ARE VISIBLE FROM ANY PUBLIC RIGHT OF WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH ARTICLE II, DIVISION 3 OF THE JAMES CITY COUNTY ZONING ORDINANCE.

ALL UTILITIES CONSTRUCTED IN ASSOCIATION WITH THIS PROJECT SHALL BE PLACED UNDERGROUND.

FLOOD INSURANCE RATE MAP
COMMUNITY-PANEL NUMBER 51095C0207D
DATED: DECEMBER 16, 2015
PROJECT APPEARS TO BE IN ZONE X, AREAS
DETERMINED TO BE OUTSIDE THE 500 YEAR
FLOOD PLAIN

BUILDING AREA (TOTAL NEW FOOTPRINT AREA) 400 sq.ft.

WATER SUPPLY: WATER SUPPLIED BY NEWPORT NEWS WATER WORKS WATER SYSTEM: PRIVATE SANITARY SEWER DISCHARGE: THROUGH HAMPTON ROADS SANITATION DISTRICT SANITARY SEWER SYSTEM: PRIVATE SANITARY SEWER SYSTEM: PRIVATE SANITARY SEWER SYSTEM: PRIVATE STORM WATER QUALITY: RHINE RIVER BMP WILL PROVIDE STORM WATER QUALITY: RHINE RIVER BMP WILL PROVIDE STORM WATER QUANTITY CONTROL STORM WATER MANAGEMENT: RHINE RIVER BMP WILL PROVIDE STORM WATER QUANTITY CONTROL WATERSHED: THIS STILE LIES WITHIN THE JAMES RIVER WATERSHED AND DRAINS TO GROVE CREEK.

THE STORMWATER MANAGEMENT FACILITY AND ASSOCIATED STORMWATER CONVEYANCE SYSTEM AS PROPOSED FOR THIS PROJECT WILL REQUIRE SUBMISSION, REVIEW AND APPROVAL OF RECORD DRAWINGS AND CONSTRUCTION CERTIFICATION AND STORM DRAIN VIDEO INSPECTION PRIOR TO RELEASE OF THE POSTED SURETY.

NO OFFSITE WORK IS ANTICIPATED WITH THIS PROJECT.

NO OFFSITE LAND DISTURBING AREAS ARE ANTICIPATED FOR THIS PROJECT.

ALL RETAINING WALLS 2 FEET OR TALLER MUST BE PERMITTED THROUGH THE JAMES CITY COUNTY CODES COMPLIANCE DIVISION.

NO GLARE FROM THE LIGHTS PROPOSED WITH THIS PROJECT WILL BE PROJECTED BEYOND THE BUSCH GARDENS PROPERTY.

CONTRACTOR IS HEREBY ADVISED THAT THESE PLANS MAY DEVIATE FROM THOSE PREVIOUSLY OFFERED FOR CONTRACT BIDDING AND SHALL BE RESPONSIBLE FOR MAKING HIMSELF AWARE OF ANY ALTERATIONS, DEVIATIONS, OR MODIFICATIONS TO THE INFORMATION CONTAINED HEREIN.

RESPONSIBLE LAND DISTURBER PIOTR SWIETLUCHOWSKI, PROFESSIONAL ENGINEER (LIC. NO. 044806), VANASSE HANGEN BRUSTILN, INC., WILLIAMSBURG, VIRGINIA WILL SERVE AS RESPONSIBLE LAND DISTURBER FOR THE DURATION OF THE REVIEW PROCESS ONLY. THE OWNER/CONTRACTOR WILL PROVIDE A QUALIFIED RILD UPON ISSUANCE OF A LAND DISTURBANCE PERMIT OR SITE PLAN APPROVAL, WHICH EVER COMES FIRST.

**WILLIAMSBURG, VA** 

# Project 2017

# 7851 Pocahontas Trail Williamsburg, Virginia

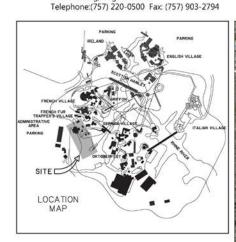
# **Property Owners**

Owner: SeaWorld Parks & Entertainment, LLC d/b/a Busch Gardens Williamsburg

Represented By: Ms. Suzy Cheely One Busch Gardens Blvd. Williamsburg, Virginia 23185 Telephone: (757) 253-3401

### Applicant: Piotr Swietuchowski, PE

Company Name: Vanasse Hangen Brustlin, Inc. 351 McLaws Circle, Suite 3 Williamsburg, Virginia 23185



Lic. No. 044606

Miss Utility of Virginia 1829 BLUE HILL CIRCLE



BEFORE YOU DIG ANYWHERE IN VIRGINIA! CALL 811 (IN VIRGINIA) 1-800-552-7001 (OUTSIDE VIRGINIA) VA LAW REQUIRES 3 WORKING DAYS NOTICE BEFORE YOU EXCAVATE.

ANTHONY J. LOUBIER

Lic. No. 054250

DRMWATER MANAGEMENT / BMP FACILITIES RECO

Site Location Map NOTES:

1. PRYATELY OWNED UTILITIES (EG WATER AND SEWER LINES, PRIVATE FIRE SERVICE MANNS) SHOWN ON THIS PLAN ARE REQULATED BY THE VIRGINIA UNIFORM STATEWING BUILDING CODE (USBC), AND ENFORCED BY THE JAMES CITY COUNTY CODES COMPLIANCE DOVISION. THESE PRIVATELY OWNED UTILITIES MUST COMPLY WITH THE INTERNATIONAL PLUMBING CODE, THE NATIONAL FIRE PREVENTION CODE AND THE HAMPION ROADS PLANNING DISTRICT COMMISSION (HRPPC) REGIONAL CONSTRUCTION STANDARDS 4TH EDITION. CONTRACTORS WORKING FROM THIS SITE PLAN ARE CAUTIONED NOT TO INSTALL OR CONCEAL PRIVATELY OWNED SITE UTILITIES WITHOUT FIRST OBTAINING THE REQUIRED PREMITS AND INSPECTIONS.

HRPDC DETAILS USED ON THIS PLAN: EW\_01 PIPE BEDDING DETAIL
EW\_01\_2 PIPE BEDDING DETAIL
RC\_01 PAYEMENT PATCHING DETAIL
SS\_11 CLEAN OUT FRAME AND COVER

NOTES: 1. ALL DISTURBED AREAS SHALL RECEIVE EROSION AND SEDIMENT CONTROL BLANKET MATTING

2. BLANKET MATTING TO BE COIR EROSION CONTROL MAT TYPE 900 MINIMUM OR APPROVED EQUAL.

SUBGRADE STABILIZATION AND COMPACTION, PLACEMENT AND COMPACTION OF INFILL MATERIAL SHALL BE OBSERVED BY VIRGINIA REGISTERED GEOTECHNICAL ENGINEER.

COPY OF THE COMPACTION TEST RESULTS SHALL BE PROVIDED TO THE OWNER AND THE DESIGN ENGINEER, ON A WEEKLY BASIS.

CONTRACTOR TO CLEAN STORM SYSTEM AND PROVIDE A COPY OF THE POST—CONSTRUCTION VIDEO INSPECTION OF ALL NEWLY INSTALLED AND EXISTING STORM DRAIN SYSTEM DOWNSTREAM FROM THE CONNECTION POINT OF SITE DRAINAGE INFLOW ALL THE WAY THROUGH TO THE OUTFALL TO THE RHINE RIVER BMP TO THE CLIENT AND THE ENGINEER. THE VIDEO INSPECTION REPORT SHALL BE CERTIFIED BY A VIRGINIA LICENSED PROFESSIONAL ENGINEER.

# Site Plan

Issued for	Site Plan Approval
Date Issued	February 3, 2016
Latest Issue	March 11, 2016

Number	Drawing Title	Latest Issue
C-1 Thru C-2	Legend and General Notes	3/11/2016
C-3 Thru C-4	Environmental Inventory	3/11/2016
C-5	Overall Plan	3/11/2016
C-6 Thru C-9	Demolition Plan	3/11/2016
C-10 Thru C-17	Erosion and Sediment Control Plan	3/11/2016
C-18 Thru C-21	Layout and Materials Plan	3/11/2016
C-22 Thru C-25	Grading, Drainage and Utility Plan	3/11/2016
C-26 Thru C-27	Erosion & Sediment Control Details	3/11/2016
C-28 Thru C-31	Site Details	3/11/2016
C-32	Stockpile Plan	3/11/2016
L-1 Thru L-2	Planting Plan	3/11/2016
L-3	Planting Notes	3/11/2016
L-4	Planting Details	3/11/2016

# Reference Drawings

Number	Drawing Title	Latest Issue
SV-1 Thru SV-4	Existing Conditions	2/3/2016

VHB Project No. 33273.68

Issued for: County Approval JCC CASE #SP-0007-2016

		Leg	gend			Ab	breviations
Exist.	Prop.		Exist.	Prop.		General	
			F-75540	1000000	CONCRETE PAVEMENT	ABAN	ABANDON
43.84		PROPERTY LINE	Shirt-Married Street		STANDARD DUTY PAVEMENT	ACR	ACCESSIBLE CURB RAMP
		PROJECT LIMIT LINE			HEAVY DUTY PAVEMENT	ADJ	ADJUST
- 1		RIGHT-OF-WAY/PROPERTY LINE	25,033	E3983	RIPRAP	APPROX	APPROXIMATE
		EASEMENT	194702681	536236	CONSTRUCTION ENTRANCE	BIT	BITUMINOUS
	S	BUILDING SETBACK		0.69(369(0	delibriation billioniae	BS	BOTTOM OF SLOPE
10+00	10+00	BASELINE BASELINE	27.55 TD.H	TC27.35 ×	TOP OF CURB ELEVATION	BMLL	BROKEN WHITE LANE LINE
100			26.85 BCH	BC26.85×	BOTTOM OF CURB ELEVATION	CONC	CONCRETE
	10 VAN 58	CONSTRUCTION LAYOUT	26.65 YL×	FL26.85×	FLOW LINE ELEVATION	DYCL	
T.		ZONING LINE	28.85 EF=:	EP26.85 ×	EDGE OF PAVEMENT ELEVATION	1000	DOUBLE YELLOW CENTER LINE
		TOWN LINE	132.75 ×	132.75 ×	SPOT ELEVATION	EL	ELEVATION
		LIMIT OF DISTURBANCE	45.0 TW <sub>N</sub> 35.5 EW	45.0 TW × 36.5 EW	TOP & BOTTOM OF WALL ELEVATION	ELEV	ELEVATION
		WETLAND LINE WITH FLAG	0	•	BORING LOCATION	EXIST	EXISTING
		FL000PLAIN	68	ě	TEST PIT LOCATION	FDN	FOUNDATION
-0.9-			⊖ww.	⊕ MW	MONITORING WELL	GRAN	GRANITE
	- 2	BORDERING LAND SUBJECT TO FLOODING	-		MONITORING WELL	GTD	GRADE TO DRAIN
-BZ		WETLAND BUFFER ZONE	U0		UNDERDRAIN	LA	LANDSCAPE AREA
SMA		RMA - RESOURCE MANAGEMENT AREA	12'0	12°D	DRAINAGE LINE	L00	LIMIT OF DISTURBANCE
		RPA - RESOURCE PROTECTION AREA		6*RD	ROOF DRAIN	MAX	MAXIMUM
			12'5	12'5	SEWER LINE	MIN	MINIMUM
-		GRAVEL ROAD	O(W		OVERHEAD WIRE	NIC	NOT IN CONTRACT
OP:	EOP	EDGE OF PAVEMENT		5*W	WATER LINE	NTS	NOT TO SCALE
3, 3A	MS-3, 3A	ASPHALT CONCRETE CURB AND MEDIAN	477	—-6 W—	WATER LINE FIRE PROTECTION LINE	PERF	PERFORATED
1-2	CG-2	STANDARD 6" CURB		2*D#		PROP	PROPOSED
2-3	CG-3	STANDARD 4" CURB			DOMESTIC WATER LINE	REM	REMOVE
-6	09-6	COMBINATION 6° CURB & GUTTER			GAS LINE	RET	RETAIN
-2	00-7				UNDERGROUND ELECTRIC	RAO	REMOVE AND DISPOSE
		COMBINATION 4" CURB & GUTTER	—-t—	—-T—	TELEPHONE LINE	RAR	REMOVE AND RESET
		FIRE LANE STRIPING	FA	FA	FIRE ALARM	SWEL	SOUD WHITE EDGE LINE
		LIMIT OF CURB TYPE	CATV		CABLE TV	SWLL	SOLID WHITE LANE LINE
		SAWCUT	- 11	m D1	DRAIN INLET (VDOT DI-1 OR DI-7)		
Euro	1			•	DRAIN INLET (VOOT DI-3B)	TS	TOP OF SLOPE
CHILL		BUILDING				TYP	TYPICAL
1	<b>J</b> ⊲€N	BUILDING ENTRANCE	6	•	DRAIN INLET (VDOT DI-3C)	Utility	
7	<b>]</b> ⊀⊡	LOADING DOCK	=10=		DRAIN MANHOLE	C8	CATCH BASIN
		BOLLARD		-	TRENCH DRAIN	CMP	
[2]	[0]	DUMPSTER PAD			PLUG OR STUB	837A	CORRUGATED METAL PIPE
-	-	SIGN	<b>P</b>		FLARED END SECTION	co	CLEAN OUT
300	-	DOUBLE SIGN	~	$\sim$	HEADWALL	DC8	DOUBLE CATCH BASIN
		- 100-00-00-00-00-00-00-00-00-00-00-00-00-	(0)	•	SEWER MANHOLE	DMH	DRAIN MANHOLE
		STEEL GUARDRAIL	0		SEWER CLEANOUT	DI	DRAIN INLET
- H-		WOOD GUARDRAIL	>	550		CIP	CAST IRON PIPE
			6	es .	CURB STOP & BOX	COND	CONDUIT
		PATH	- 27		WATER VALVE & BOX	DEP	DUCTLE IRON PIPE
2	$\sim$	TREE LINE	797	TSV	TAPPING SLEEVE, VALVE & BOX	ES	END SECTION
- M		WIRE FENCE	++	*	SIAMESE CONNECTION	EW	END WALL
		FENCE	eino	e ind	FIRE HYDRANT	FES	FLARED END SECTION
		STOCKADE FENCE	WM	WM	WATER METER	F&G	FRAME AND GRATE
		CHAIN LINK FENCE	PIV	PV		FAC	FRAME AND COVER
2000	000000	STONE WALL	0	8	POST INDICATOR VALVE	FM	FORCE MAIN
	==	RETAINING WALL	200		WATER WELL	GT	GREASE TRAP
		STREAM / POND / WATER COURSE	o"	8"	GAS GATE	GI	GUTTER INLET
		DETENTION BASIN	(D)	CM ED	GAS WETER	HDPE	HIGH DENSITY POLYETHYLENE PIPE
			1041	112	The Control of Control	нн	ELECTRIC HANDHOLE
	13111133	HAY BALES	D#	e Di	ELECTRIC MANHOLE	HW	HEADWALL
N.	—×—	SILT FENCE	13	D	ELECTRIC METER	HYD	HYDRANT
4		MINOR CONTOUR	0	*	LIGHT POLE		METAL END SECTION
20	20	MAJOR CONTOUR	0	•	TELEPHONE MANHOLE	MES	
0		STATE OF THE STATE		[71		INV	INVERT ELEVATION
(19)	(10)	PARKING COUNT	Ш		TRANSFORMER PAD	I=	INVERT ELEVATION
	(010)	COMPACT PARKING STALLS	-0-	•	UTILITY POLE	PWW	PAVED WATER WAY
	DYL	DOUBLE YELLOW LINE	0-	•	GUY POLE	PVC	POLYVINYLCHLORIDE PIPE
DYL			I.	1	GUY WIRE & ANCHOR	RCP	REINFORCED CONCRETE PIPE
3.	9.	STOP LINE					
8		STOP LINE CROSSWALK	HH	HH	HAND HOLE	R=	RIM ELEVATION
m. 2		STOP LINE CROSSWALK ACCESSIBLE CURB RAMP		HH PB		R∞ SWH	RIM ELEVATION SEWER MANHOLE

### SEQUENCE OF CONSTRUCTION

- NOTIFY JAMES CITY COUNTY ENGINEERING AND RESOURCE PROTECTION DIVISION (ERPD) AND VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ) MINIMUM 48-HOURS IN ADVANCE OF COMMENCEMENT OF CONSTRUCTION OPERATIONS.
- CONDUCT PRE-CONSTRUCTION MEETING ON-SITE BETWEEN THE CONTRACTOR, THE OWNER THE ENGINEER AND ASSIGNED JAMES CITY COUNTY ENGINEERING AND RESOURCE PROTECTION DIVISION (ERPD) INSPECTOR.
- INSTALL THE CONSTITUTION ENTRANCES, PERIMETER CONTROLS AND ALL OTHER EROSION AND SEDIMENT CONTROL MEASURES INDICATED ON PHASE I OF THE EROSION AND SEDIMENT CONTROL PLANS.
- 4. DEMOLITION ACTIVITIES MAY PROCEED ONLY UPON INSPECITON AND APPROVAL OF THE PHASE I EROSION AND SEDIMENT CONTROL MEASURES BY THE JCC ERPD INSPECTOR
- 5. SAWCUT AND REMOVE EXISTING CONCRETE AND ASPHALT AS SHOWN ON DEMOUTION PLAN.
- 6. INSTALL STORM SEWER PIPES, INLETS AND UNDERGORUND UTILITIES AS INDICATED ON THE GRADING, DRAINAGE AND UTILITY PLAN UPON COMPLETION OF STORM DRAIN INSTALLATION, POST CONSTRUCTION RECORD DRAWINGS AND VIDEO INSPECTION ARE TO BE PERFORMED PRIOR TO INSTALLATION OF RETAINING WALL AROUND STRAIL
- 8. INSTALL INLET PROTECTION ON NEW STORM STRUCTURES ACCORDING TO PHASE II OF THE EROSION AND SEDIMENT CONTROL PLAN.
- 9. ADJUST TEMPORARY SLOPE DRAIN ALONG FLUME BASIN ACCESS ROAD TO THE LOCATION SHOWN ON PHASE II OF THE EROSION AND SEDIMENT CONTROL PLAN.
- 10. ROUGH GRADE AND PREPARE SUBGRADE FOR INSTALLATION OF SITE IMPROVEMENTS.
- 11. INSTALL REMAINING PAVEMENT ITEMS AND SITE IMPROVEMENTS
- 12. AFTER FINAL SITE STABILIZATION AND UPON RECEIVING AUTHORIZATION FROM THE ASSIGNED JCC ERPD INSPECTOR REMOVE REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.
- 13. DURING ALL PHASES OF CONSTRUCTION, CONTRACTOR SHALL PERFORM DAILY INSPECTIONS OF ALL RECEIVING DRAINAGE OUTFALLS, EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSPECTED AND REPAIRED OR REPLACED OR SINECESSARY AFTER EACH STORM EVENT.
- 14. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL SEDIMENT CONTROLS AND REMOVAL OF SEDIMENT CAUSED BY CONSTRUCTION
- 15. DETERMINATION OF THE SCHEDULE AS TO WHICH AREAS WILL BE CLEARED, DEMOLSHED, GRADED ETC. IS AT THE CONTRACTOR'S OPTION. REVISED SEQUENCING AND EROSION AND SEDIMENT CONTROL METHODS SHALL BE SUBMITTED TO JAMES CITY COUNTY ERPD FOR APPROVAL.
- 16. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE REMOVED ONLY WHEN STABILIZATION HAS BEEN ESTABLISHED. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZATION OF AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE DIRECTED BY THE COUNTY.

## Notes:

- 1. ALL WORK SMAL BE IN ACCORDANCE WITH THE CURRENT EXTIDING OF THE VIRGIN, WORK JUES PROTECTION MANUAL, V.D.O.T. ROAD AND REPORT STANDARDS, STEPPORTATIONS, MOOD, AND ACCORDANCE COMPARISON OF STREAM STANDARDS, STEPPORTANCE CONTENTANCE FOR SANITARY SCHEEN, RESPORT NEW WATER WORKS (ON MY) DISTRIBUTION STANDARDS, HAMPTON ROADS FRANNING GOSTRET (HERPOR) REGIONAL CONSTRUCTION STANDARDS, AND JAMES DOTY COUNTY PRIVATE STREET STANDARDS AND SEPERIFORMS, THE 2010 AND STANDARDS FOR ACCESSIBILITY CURRENT, VIRGINAL STRONG WATER REQUILATIONS, WISCINAL REGION AND SEPONDET CONTROL NAMEDOCK AND JAMES CITY COUNTY FORTOW WATER REGIONAL CONCENSIONS. (NON-BMP RELATED) GENERAL DESIGN AND CONSTRUCTION GUIDELINES.
- THE "MISS UTILITY LAW" REQUIRES FOR THE CONTRACTOR TO CALL 811 AT LEAST 3 WORKING DAYS IN ADVANCE OF THE PLANNED WORK TO ALLOW TIME FOR MARKING, THAT THE MARKS BE RESPECTED AND PROTECTED, AND THAT EXCAVATION BE COMPLETED CARPULLY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
- ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS AND WALKWAYS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE
  FEDERAL AMERICANS WITH DISABILITIES ACT AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEYER ARE MORE STRINGENT).
- AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.)
  SHALL POLLOW DETAL PROVIDED BY VRIGNIA EROSON AND SEDIMENT CONTROL MANDBOOK FOR SITE SPECIFIC SEEDING MIXTURES IN
  ACCORDANCE WITH STANDARD & SPECIFICATION 3.32.
- WITHIN THE LIMITS OF THE BUILDING FOOTPRINT, THE SITE CONTRACTOR SHALL PERFORM EARTHWORK OPERATIONS REQUIRED UP TO SUBGRADE ELEVATIONS.
- WORK WITHIN THE LOCAL RIGHTS-OF-WAY SHALL CONFORM TO LOCAL MUNICIPAL STANDARDS. WORK WITHIN STATE RIGHTS-OF-WAY
  SHALL CONFORM TO THE LATEST EDITION OF THE STATE HIGHWAY DEPARTMENTS STANDARD SPECIFICATIONS FOR HIGHWAYS AND
  REPORTS.
- 8. UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWNINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, AND FIRE HYDRANTS, WITHOUT APPROPRIATE PERMITS.
- 9. TRAFFIC SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- 11. IN THE EVENT THAT SUSPECTED CONTAINANTED SOIL, GROUNDWATER, AND OTHER WEDLA ARE ENCOUNTEED DIRRIGE DECAYATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL USACTION, OR OTHER EVENDES, THE CONTRACTION SHALL STOP WORK IN THE MONITY OF THE SUSPECT MATERIAL TO AVIOD FURTHER SPREADING OF THE MATERIAL, AND SHALL NOTIFY THE OWNER IMMEDIATELY SO THAT THE APPROPRIATE TESTING MOS SUSPECIALITY ACTION CAN BE TAKEN.
- CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS.
- 13. DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
- 14. CONTRACTOR SHALL CONTROL STORWWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO OFF SITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO OWNER.
- 15. THIS PROJECT DISTURBS MORE THAN 2500 SQUARE FEET OF LAND AND FALLS WITHIN THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (YSMP), CENERAL CONSTRUCTION PERMIT (COP) PROGRAM AS ADMINISTERED BY THE VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (COE) UNDER THE JURISDICTION OF THE EPA. THE PROPOSED PROJECT IS COVERED BY EXISTING VIRGINIA CENERAL PERMIT NO. VARIODOSI.
- SUBGRADE STABILIZATION AND COMPACTION, PLACEMENT AND COMPACTION OF INFILL MATERIAL SHALL BE OBSERVED BY VIRGINIA REGISTERED GEOTECHNICAL ENGINEER.
- 17. COPY OF THE COMPACTION TEST RESULTS SHALL BE PROVIDED TO THE OWNER AND THE DESIGN ENGINEER.
- 18. CONTRACTOR SHALL RETURN ALL DISTURBED GRAVEL AND RIP RAP AREAS TO ORIGINAL CONDITION
- GENERAL CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF ALL EXCESS MATERIALS FROM GCI FOOTER EXCAVATION. MATERIAL TO BE SPOILED ON THE SITE OF FORMER DRACHEN FIRE (SEE SHEET C-32).

General

- 1. THE LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITIES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR ITS REPRESENTATIVE(S) HAVE NOT MODEPHOENTLY VERRIED THIS REPORTATION AS SHOWN ON THE PLANS. THE UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTIVAL EXISTENCE, SERVICEABILITY, OR OTHER ORAT CONCENTION THE UTILITY HAVE NOT BEEN OF THE OWNER OF THE PLANS FROM THE PLANS FR
- 2. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK DEXISTING CONTINONS DIFFER FROM THOSE SHOWN SUCH THAT THE WORK CANNOT BE COMPLETED AS INTENDED, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FRRWISHED IN METRIC TO THE OWNER'S REPRESENTANT FOR THE RESOLUTION OF THE CONTECT AND CONTRACTOR'S ARLINE TO NOTIFY PRIOR TO PERFORMING ADDITIONAL WORK RELEASES OWNER FROM OBLIGATIONS FOR ADDITIONAL PAYMENTS WHICH OTHERWISE MAY BE WARRANTED TO RESOLVE THE CONTILCT.
- 3. SET CATCH BASIN RIMS, AND INVERTS OF SEWERS, DRAINS, AND DITCHES IN ACCORDANCE WITH ELEVATIONS ON THE GRADING AND UTILITY PLANS.
- RIM ELEVATIONS FOR DRAIN AND SEWER MANHOLES, WATER VALVE COVERS, GAS GATES, ELECTRIC AND TELEPHONE PULL BOXES, AND MANHOLES, AND OTHER SUCH ITEMS, ARE APPROXIMATE AND SHALL BE SET/RESET AS FOLLOWS:
- B. ALL SURFACES ALONG ACCESSIBLE ROUTES: FLUSH
- C. LANDSCAPE, TOPSOIL AND SEED, AND OTHER EARTH SURFACE AREAS: ONE INCH ABOVE SURROUNDING AREA AND TAPER EARTH TO THE RIM ELEVATION.
- THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES SHALL BE INSTALLED
  ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY, THE RESPECTIVE UTILITY COMPANY (OS.S. TELEPHONE, ELECTRIC,
  FIRE ALARM, ETC.). FINAL DESIGN LOADS AND LOCATIONS TO BE COORDINATED WITH OWNER AND ARCHITECT.
- CONTRACTOR SHALL MAKE ARRANGEMENTS FOR AND SHALL BE RESPONSIBLE FOR PAYING FEES FOR POLE RELOCATION AND FOR TH ALTERATION AND ADJAINENT OF GREEK, ELECTRIC, TELEPTIONE, FIRE ALARM, AND ANY OTHER PRIVATE UTILITIES, WHETHER WORK IS PERFORMED BY CONTRACTOR OR BY THE UTILITIES COMPANY.
- 7. UTILITY PIPE MATERIALS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLAN
- A. WATER PIPES LARGER THAN TWO INCHES (2') SHALL BE DUCTLE IRON PIPE (DIP) CLASS 52 OR C900 POLYVNYL CHLORIDE (PVC) PIPE, UNLESS OTHERMISE NOTED.
- B. WATER SERVICES TWO INCHES (2") OR SMALLER SHALL BE ASTM B88 COPPER WATER TUBING, TYPE K, FOR UNDERGROUND WATER SERVICE AND SHALL BE IN ACCORDANCE WITH ANSI/AWWA C800.
- C. STORM DRAINAGE PIPES SHALL BE POLYVINYL CHLORIDE (PVC) PIPE SCH-40 OR REINFORCED CONCRETE PIPE (RCP) CLASS IV MINIMUM, UNLESS OTHERWISE NOTED.

- E. FORCEMAIN SANITARY SEWER SHALL BE POLYMNYL CHLORIDE SCHEDULE 80 (PVC SCH-80) UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND SHALL FURNISH EXCAVATION, INSTALLATION, AND BACKFILL OF ELECTRICAL FURNISHED STEWORK RELATED ITEMS SUCH AS PULL BOXES, CONQUITS, DUCT BANKS, LIGHT PILE BASES, AND CONCRETE PAGS. CONTRACTOR SHALL FURNISH CONCRETE ENCASEMENT OF DUCT BANKS IF REQUIRED BY THE UTILITY COMPANY AND AS INDICATED ON THE DRAMMOS.
- 9. CONTRACTOR SHALL EXCAVATE AND BACKFILL TRENCHES FOR GAS IN ACCORDANCE WITH GAS COMPANY'S REQUIREMENTS.
- ALL DRAINAGE AND SANITARY STRUCTURE INTEROR DIAMETERS (4" MIN.) SHALL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE COMPOURTAINOS SHOWN OF THESE PLANS AND LOCAL MUNICIPAL STANDARDS. FOR MANHOLES THAT ARE 20 FEET IN DEPTH AND ORGAZIER, THE MINIMUM DIAMETER SHALL BE 5 FEET.
- 11, LOCATION OF FITTINGS SHOWN HEREON ARE APPROXIMATE ONLY. CONTRACTOR SHALL DETERMINE ALL FITTING REQUIREMENTS AND LOCATIONS FROM ACTUAL FIELD CONDITIONS.
- PIPE LENGTHS SHOWN HEREON ARE FROM CENTERLINE TO CENTERLINE OF STRUCTURE AND ARE APPROXIMATE. CONTRACTOR SHALL DETERMINE ACTUAL PIPE LENGTHS FROM FIELD CONDITIONS.
- 13. INVERTS CONTROL ELEVATIONS AT ALL STRUCTURES, SLOPES AND LENGTHS ARE APPROXIMATE ONLY.
- 14. RIM ELEVATIONS SHOWN HEREON ARE APPROXIMATE ONLY. CONTRACTOR SHALL SET ALL STRUCTURES FLUSH WITH FINAL GRADE.
- 15. CONTRACTOR TO CLEAN STORM SYSTEM AND PROVIDE A COPY OF THE POST-CONSTRUCTION VIDEO INSPECTION OF ALL NEWLY INSTALLED PIPES TO THE CLIENT AND THE ENGINEER. THE VIDEO INSPECTION REPORT SHALL BE CERTIFIED BY A VIRGINIA LICENSED PROFESSIONAL ENGINEER.

- DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
- 2. CURB RADII ARE 5 FEET TO FACE OF CURB UNLESS OTHERWISE NOTED
- CURBING SHALL BE V.D.O.T. CG-6 AND CG-2, WITH EXPOSED AGGREGATE FINISH, WITHIN THE SITE UNLESS OTHERWISE INDICATED ON THE PLANS.

- SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND DETAILS CONTIGUOUS TO THE BUILDING, INCLUDING SIDEWALKS, RAWPS, BUILDING ENTRANCES, STAIRWAYS, UTILITY PENETRATIONS, CONCRETE DOOR PADS, BOLLARDS, ETC.
- PROPOSED BOUNDS AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.
- PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL VERIEV EXISTING PAVEMENT ELEVATIONS AT INTERFACE WITH PROPOSED PAVEMENTS, AND EXISTING ROUND ELEVATIONS ADJACENT TO DRAWANGE UNLESS TO ASSURE PROPER TRANSTRONS BETWEEN EXISTING AND PROPOSED FACILIES. WHERE EXISTING ELEVATIONS AND CONDITIONS DEFER FROM THOSE SHOWN SUCH THAT THE WORK CANNOT BE COMPLETED AS INTERIOR. THE CENTRACT AND THE MORPHALTON SHALL BE ACCURATELY DETERMINED WITHOUT DELAY! THE CONTRACTOR, AND THE MORPHALTON HORIZON ON MEDITION OF THE MORPHALT PRESENVATION FOR THE RESOLUTION OF CONFLICT AND CONTRACTOR'S FAILURE TO NOTIFY PRIOR TO PERFORMING ADDITIONAL WORK RELEASES OWNER FROM OBLIGATIONS FOR ADDITIONAL PAYMENTS WHICH OTHERWISE MAY BE WARRANTED TO RESOLVE THE CONFLICT.
- SYMBOLS AND LEGENGS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARLY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWNINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWNINGS AND FIELD MEASUREMENTS OF SUPPLED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
- CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS, BUT SHALL VERRY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.

- CONTRACTOR SHALL RELIPER AND DISPOSE OF EMSTING MANAMOE SUPFACE FEATURES WITHIN THE LIMIT OF MORK INCLUDING BUILDINGS, STRUCKINES, SAMES, LIGHDING, FEATURES, LITTLY POLES, SIGNS, SET CLINICES, MIGHAUTH, SLABS, CURRON, FEATURES, FOLDIATIONS, AND UNSUITABLE MATERIAL BENEATH AND FOR A DISTANCE OF TOFET BEYOND THE PROPOSED BUILDING FOOTPHET MICLIUNIC EXTERTOR COLUMNS.
- EXISTING UTILITIES SHALL BE TERMINATED, UNLESS OTHERWISE NOTED, IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPCCIPICATIONS AND DETAILS. THE CONTRACTOR SHALL COORDINATE UTILITY SERVICE DISCONNECTS WITH THE UTILITY REPRESENTATIVES.
- CONTRACTOR SHALL DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.
- THE DEMOLITION LIMITS DEPICTED IN THE PLANS IS INTENDED TO AID THE CONTRACTOR DURING THE BIDDING AND CONSTRUCTION PROCESS AND IS NOT INTENDED TO DEPICT EACH AND EVERY ELEMENT OF DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR DENTIFITMING THE DETALLED SCOPE OF DEMOLITION SEPTORS SUBMITTED IS BID/PROPOSAL. TO PERFORM THE KNOKK AND SHALL MAY NO CLAMS AND SEEK NO ADDITIONAL COMPENSATION FOR CHANGED CONDITIONS OR UNFORESEEN OR LATENT SITE CONDITIONS RELIED TO ANY COMMITTIONS TO CONDITIONS OF CONTRACTOR OF THE CONTRACTO
- UNLESS OTHERMSE SPECIFICALLY PROVIDED ON THE PLANS OR IN THE SPECIFICATIONS, THE ENGINEER HAS NOT PREPARED DESIGNS FOR AND SHALL HAVE NO RESPONSEBILITY FOR THE PRESENCE, DISCOVERY, REMOVAL, ABATEMENT OR DISPOSAL OF HAZARDOUS MATERIALS, TOOK MASTES OR FOULTMANS AT THE PROJECT SITE. THE ENDINEER SHALL NOT BE RESPONSED FOR ANY CLAMS OF LOSS, DAMAGE, EMPONSE, DELAY, MAJEY OR BEATH ARSING FROM THE PRESENCE OF HAZARDOUS MATERIAL AND CONTRACTION SHALL HAVE NO ADMINISTRATING COLORADOUS ATTERIAL AND CONTRACTION SHALL HAVE NO ADMINISTRATING COLORADOUS ANY TYPE WITH REPORTS TO ANY OTHER CHARGES OF CONTRACTION THEOREM, MAJERIAL OR HAVE THE RECORD TO ANY CONTRACTION ARMOMENT WOULD WING THE ISSUES OF PRESENCE, DISCOVERY, REMOVAL ABRITISHED OR DISCOVERY, REMOVAL ABRITISHED AND THE RESPONSED OF STREET OF THE PRESENCE, DISCOVERY, REMOVAL ABRITISHED OR DISPOSAL OF ASSESTED OR OTHER HAZARDOUS MATERIALS.

- PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE AND LOCAL APPROVAL DOCUMENTS PERTANNING TO THIS PROJECT.
- CONTRACTOR SHALL INSPECT AND MAINTAIN ERRISON CONTROL MEASURES, AND BRADDE SEDIMENT THRERFROM AT A PREQUENCY OF () AT LEAST DOCK FREY FOR () BIGNESS DAYS () AND () AT LEAST DEVELOPE THE () BIGNESS DAYS AND NO LIGHT HAN 48 HORS FOLLOWING A MEASURABLE EXPITI (STORM EVRIT OF 0.25" OR ORGATER OF RAIN IN LESS THAN 24 HOURS), IN THE EVENT THAT A MEASURABLE STORM EVENT TOWARD MORE THAN 49 HOURS BETWEEN USUNSS DAYS. HE INSPECTION SHALL BE CONDUCTED ON THE NEXT BUSINESS DAYS AND DEPOSE OF SEDIMENTS IN AN UPLAND AREA SUCH THAT THEY DO NOT BECURERE OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
- CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND OR DIRECT DEPOSIT.
- CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEEDED OR OTHERWISE STABILIZED TO PREVENT EROSION.
- UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE DRAINAGE AND SEWER SYSTEMS.
- 6. ALL DISTURBED SLOPES 3:1 AND STEEPER SHALL RECEIVE EROSION AND SEDIMENT CONTROL BLANKET MATTING

# BASE PLAN: THE TOPOGRAPHY AND PHYSICAL FEATURES ARE BASED ON AN ON-THE-GROUND SURVEY PERFORMED ON THE GROUND BY VHB, DURING NOVEMBER 2015 AND DECEMBER 2015.

- A. SUBSURFACE UTILITIES SHOWN BASED ON PAINT MARKINGS DURING FEBRUARY THRU MARCH 2013 AND DECEMBER 2015 IN ACCORDANCE WITH ASCE 38-02, QUALITY LEVEL B.
- TOPOGRAPHY: HORIZONTAL AND VERTICAL DATUM BASE ON A TRANSFORMATION USING JAMES CITY COUNTY AND YORK COUNTY MONABRITS AND LOYGLA RETMORK HOSCONTAL DATUM: MIGRIAL STATE PLANE SOUTH ZONE NAD 83. VERTICAL DATUM: MGVD 29 NG USED TO MATON THE JAMES CITY AND YORK COUNTY MONABORINS.
- LOCATION AND ELEVATION SHOWN ON EXISTING LE SCOOT SUPPORT COLUMNS OBTAINED BY SHOOTING BOTTOM OF WETAL USING REFLECTORLESS EDM.
- 4. INFORMATION OUTSIDE THE LIMITS OF FIELD SURVEY DERIVED FROM PLANS OF RECORD.

THESE PLANS AND CORRESPONDING CADD DOCUMENTS ARE INSTRUMENTS OF PROFESSIONAL SERVICE, AND SHALL NOT BE WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN FOR WHICH IT WAS CREATED WITHOUT THE EXPRESSED, WRITTEN CO VHB. ANY UNAUTHORIZED USE, REUSE, MODIFICATION OR ALTERATION, INCLUDING AUTOMATED CONVERSION OF THIS DOCUMENT BE AT THE USER'S SOLE RISK WITHOUT LIABILITY OR LEGAL EXPOSURE TO VHB.

### Stormwater General Permit Notes

- IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN AS DEVELOPED FOR THE STE AND IN ACCORDANCE WITH THE GENERAL PERMIT REQUIREMENTS WITH RECARCE TO EROSON AND SEDMENT CONTROL, POST-CONSTRUCTION STORM WATER WANAGGMENT, AND OTHER CONTROLS REGRAPMON SOLD MATERIALS, SEDMENTS AND DUST, AND THE DEMONSTRATED COMPLIANCE WITH APPUCABLE STATE AND/OR LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.
- RETENTION OF THE STORM WATER POLLUTION PREVENTION PLAN AT THE CONSTRUCTION SITE. THE PLAN AND OTHER RELATED DOCUMENTS SHALL BE MADE AVAILABLE UPON REQUEST TO AUTHORIZED LOCAL, STATE, OR FEDERAL REPRESENTATIVES.
- AMENDMENT OF THE STORM WATER POLLUTION PREVENTION PLAN WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS A SIGNIFICANT EFFECT ON THE POTENTIAL FOR THE DISCHARGE OF POLLUTIANTS TO THE SURFACE WATERS OF THE STATE, OR IF THE STORM WATER POLLUTION PREVENTION PLAN PROVES TO BE INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMEZING POLLUTIANTS FROM THE CONSTRUCTION ACTIVITY.
- DOCUMENTATION OF THE DATES WHEN MAJOR GRADING ACTIVITIES CODUR, WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, AND WHEN STABILIZATION MEASURES ARE IMPLIMENTED. PERMANENT OR TEMPORARY SOUL STABILIZATION SHALL BE APPLIED TO DENIJOED AREAS WITHIN SEVEN (?) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE.
- INSPECTIONS OF DISTURBED AREAS OF THE CONSTRUCTION SITE AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECOPITATION THAT THANK HOT BEEN INMALLY STABLED, STRUCTURE, OWERS, WASJIESS, AND LOCATIONS WHERE REPORCES TO A CONTROL MEASURES, AND LOCATIONS WHERE REPORCES CONTROL MEASURES, AND LOCATIONS WHERE REPORTED LAST ONCE PERFORM FOR FOR THE ADVENTOR OF THE AREA OF T REQUIRED BY THE GENERAL PERMIT REGULATIONS. REPORTS SUMMARIZING THE INSPECTIONS SHALL BE MADE IN ACCORDANCE TO THE REGULATIONS AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN.
- ALL CONTRACTORS AND SUBCONTRACTORS SHALL SIGN A COPY OF THE CERTIFICATION STATEMENT AS DESCRIBED IN THE GENERAL PERMIT BEFORE CONDUCTING ANY PROFESSIONAL SERVICES AT THE STIE IDENTIFIED IN THE POLLUTION PREVENTION PLAN. ALL CRETIFICATIONS SHALL BE INCLUDED IN THE STORM WATER POLLUTION PREVENTION PLAN.
- ALL DOCUMENTS, RECORDS, REPORTS, AND OTHER INFORMATION RELEVANT TO THE GENERAL PERMIT REGULATIONS SHALL BE GIVEN TO THE OWNER FOLLOWING FINAL STABILIZATION OF THE SITE.
- WHERE THE SITE HAS BEEN FINALLY STABILIZED AND ALL STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES THAT ARE AUTHORIZED BY THE CHERRAL PERMIT REEL ELIMINATED, A NOTICE OF PROLECT COMPLETION SHALL BE PREPARED AND SUBMIT TO THE OWNERF FOR NOLUSION IN THE MASTER STORM WATER POLLUTION PLAN.
- 9. THE STRUCTURAL STABILITY OF THE PERMITTED FACILITIES SHALL BE ENSURED.



351 McLaws Circle Suite 3 Williamsburg, VA 23185 757.220.0500

Busch

WILLIAMSBURG, VA

Gardens.

# **Busch Gardens** Project 2017

7851 Pocahontas Trail Williamsburg, Virginia

February 3, 2016

Not Approved for Construction

Legend and **General Notes** 



PIOTR SWHETUCHOWSKI Lic. No. 044606 JCC CASE #SP-0007-2016 3-11-11 33273 68



### Standard County Stormwater Pollution Prevention Plan Notes (Revised: July 1, 2014)

The following standard County notes shall become part of any approved stormwater pollution prevention plan (SWPPP) for plan of development projects in James City County, Virginia, Components of a SWPPP may include as applicable, a site erosion and soft-diment control (EdSC) plan, a site stemaster management (SWM) plan, and a site pollution prevention plan (PPP). The County's Division of Engineering and Resource Protection is designated by Chapter 8 of the County Code as the local Virginia Envision and Sediment Control Program (VESCP) authority and Virginia Stortmwater Management Program (VSMP) authority.

- All the provisions of Vinginia Erosion and Sediment Control (E&SC) Law and Regulations, the Virginia Stormwater Management Act and Regulations (VSAIP), the Vinginia BMP Clearinghouse website, State Erosion and Sediment Control and Stormwater Management Handbooks, and any associated technical bulletins and guidance documents as published by the State Water Control Board, the Vitignia Department of Environmental Quality (DEQ), and the Icoal VISSCP and VSMP abstroity shall apply to the project.
- 2. Minimum Standards No. 1 through No. 19 of the Virginia Erosion and Sediment Control Regulations 9VAC25-
- 3. The owner, applicant, operator, or permittee shall be responsible to register for construction general permit (CGP) coverage, as applicable, in accordance with the General VPDES Permit for Discharge of Stormwater from Construction Activities (VARIO) Chapter 880; the Virginis Stormwater Management Program Regulations Chapter 870; and in accordance with current requirements of the Virginia Stormwater Management Program (VSMP), the State Water Centrel Board, the Virginia Department of Environmental Quality, Chapter 8 of the County Code and the local VESCP/VSMP authority.
- 4. The owner, applicant, operator or permittee shall provide the name of an individual holding a valid Responsible Land Disturber (RLD) certificate of competence who will be responsible for the land disturbing activity prior to engaging in the land disturbing activity. This will be necessary prior to issuance of a local land disturbing or sormwater construction permit for the project. The RLD is required to attend the preconstruction conference for
- 5. The contractor is responsible to contact Miss Utility (Dial 811 in VA or I-800-552-7001) prior to any utility or
- 6. All crosion and sediment control measures shall be planned, designed, implemented, installed and maintained in accordance with the provisions of the latest edition of the Virginia Erosion and Sediment Control Handbook (VESCH). The Coetractor shall maintain, inspect, and repair all erosion and sediment control measures as needed throughout the life of the project to ensure continued acceptable performance.
- 7. A preconstruction conference (meeting) shall be held on site and include representatives from the local VESCP/VSMP authority, the owner/applicant/operator/permittee, the Responsible Land-Disturber (RLD), and the contractor, engineer, and other responsible agencies, as applicable, prict to authorization and issuance of a local land disturbing or stormwater construction permit. The owner, applicant, operator or permittee is required to coordinate scheduling of the preconstruction conference between all applicable parties. The coursector shall solution \$5.000 to \$1.000 to \$1.0

Engineering and Resource Protection Division 101-E Mounts Bay Road, P.O. Box 8784 P. 757-251-6670 F: 757-259-4032

Williamsburg, VA 23187-8784



# COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

(804) 698-4020 1-800-592-5482

August 15, 2014

Coverage under the 2014 VPDES Construction General Permit (VAR10) General Permit No. VAR10D091 SeaWorld Parks and Entertainment LLC dos Busch Gardens Williamsburg Private - Commercial

DEQ has reviewed your Registration Statement received on May 29, 2014 and determined that the proposed ind-disturbing activity is covered under the General VPDES Permit for Discharges of Stormwater from instruction Activities (VARTO, The effective date of your coverage under this general permit is the date of this

http://www.dep.urian.com/brait/book/Markin/bulleans/Google/Google/Control (Note of the following location: http://www.dep.urian.com/brait/book/Markin/bulleans/Google/Goo

The general permit requires that you update your SWPPP to incorporate the changes that the Department made for this permit resissuance. Please update the SWPPP as soon as possible but no later than skrity (60) days from the date of this letter.

DEQ staff has determined that the proposed land-disturbing activity will discharge to a surface water identified as imparied or for which a TMDI, wastelead allocation has been established and approved prior to the term of the spenaral permit for (i) sediment or a sediment-related parameter or (ii) inclinents. Tereforce, the following operatal permit (Part I.B.4) and SWPPP requirements (Part II.A.5) must be implemented for the land-disturbing activity.

- Permanent or temporary soil stabilization shall be applied to denuded areas within seven (7) days after fired grade is reached on any portion of the after.
   Nutrients (e.g., fertilezes) shall be applied in accordance with manufacturer's recommendators or an approved nutrient management plan and shall not be applied during rainfall events.
   Inspectiose shall be conducted at a frequency of (1) at least order every four (3) business days or (g) at least order every (5) business days or (g) at least order every (5) business days or (g) at least order every (5) business days or (g) at least order every (5) and (6) business days or (g) at least order every (5) business days or (g) at least order every (5) business days or (g) at least order every (5) business days or (g) at least order every (6) business days or (g) at least order every (6) business days or (g) at least order every (6) business days, and (g) at least order every (6) business days, at least order every (6) business days, and (g) at least order every (6) business days, at least order (6) business days order (6)

Standard County SWPPP Notes

- 8. A pollution prevention plan (P2 plan or PPP), if required, shall be developed, implemented and updated as necessary and must detail the design, installation, implementation, and maintenance of effective pollution prevention measures to: minimize the discharge of pollutants from equipment and whelic washing, wheel was water and other wash waters, minimize the exposure of all materials on the site (such as bailding materials and products, contention) waster, that, landscape metricals, fertilizers, pesticides, herbiticides, decregants, sanitary waste, etc.) to precipitation and stormwater, minimize the discharge of pollutants from spills and below, implement chemical spill and deak prevention and response procedures, can discharge fetcheve best management practices to prohibit the discharge of wastewater from: concrete washout areas, discharge of wastewater from washout and cleanout of stucco, past, form release oils, curing composine sha other construction materials; discharge of fitels, oils, other pollutants used in vehicle and equipment subming. This plan shall be available onsit for review at reasonable times by the local VESCP/VSMP authority when requested.
- The owner, applicant, operator, or permittee is responsible for all operator self-inspections as required in the
  pollution prevention plan (?² plan or PPP) or as required as part of a developed Stormwater Pollution Prevention
  Plan (SWPPP). These inspections shall be made available, upon request, by the lead VISSCPVSMP authority.
- 11. Additional safety fence or dust control measures, in accordance with the provisions of Minimum Standards & Spees. 3.01 and 3.39 of the Virginia Ensoins and Sediment Control Handbook (VESCH), may be required to be implemented on the site in addition to that show no the approved plan and specifications in order to orsine adequate protection of the health, safety and welfare of the public or if site conditions change, become apparent or alter significantly following the date of plan approx.
- 12. Erosion and sediment control measures may require minor field adjustments at or following time of construction to ensure their intended purpose is accomplished, to ensure adequate protection of the bealth, safety, and welfare of the public, or if site conditions change, become apparent or after significantly following the date of plan approval. Local VESC/PVSMF authority approval shall be required for any deviation of evosion and sediment control measures from the approved plan.
- 13. Off-site waste or borrow areas shall be approved by the local VESCP/VSMP authority prior to the import of any borrow or export of any waste to or from the project site.
- 15. Culvert and storm drain inlet protection, in accordance with the provisions of Minimum Standards & Spees, 3.07 and 3.08 of the Virginia Envisor and Sediment Custrol Handbook (VESCH), may be removed at the discretion of a close of the Computer of t
- 16. Drainage facilities shall be installed and functional within 30 days following completion of rough grading at any
- 17. No more than 300 feet of trench may be open at one time for underground utility lines, including storm water conveyances. All other provisions of Minimum Standard No. 16 of the Virginia Erosion and Sediment Control conveyances. All of regulations apply.

Engineering and Resource Protection Division 10.1-E Mounts Bay Road, P.O. Box 8784 P. 757-253-6670 F: 757-259-4032

Williamsburg, VA 23187-8784 jamescitycountyva.gov Revised: July 2014

Page 2

- Permanent or temporary stabilization of disturbed soil areas shall comply with Minimum Standard #1 and #3 of the Virginia Erosion and Sediment Control Regulations.

- 22. No sediment trap or sodiment basin shall be removed until a) at least 75 percent of the single-family lots within the drainage area to the trap or basin have been sold to a third party for the construction of homes (unrelated to the developers; and/or, b) tol percent of the single-family lots within the drainage area to the trap or basin are completed and stabilized. A bulk sale of the lots to another builder does not sairsly this provision. Sediment traps and sediment basins shall not be removed without authorization of the local VESCPV-SMP authority.

- 25. All stormwater facilities including BMPs, storm drainage pipes, stormwater conveyances, inlets, manholes, outfalls and roadside and other open channels shall be inspected by the local VESCPVSMP authority, the owner, and the applicant/operator/pentite designated geotechnoical engineer for the project in accordance with established County stormwater facility inspection program requirements.

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Standard County SWPPP Notes Page 3



- 20. If disturbed area stabilization is to be accomplished during the months of December, January or February, stabilization shall consist of Natiching in accordance with Minimum Standard & Spec. 3.15 of the Viterials Ersoisu and Sediment Control Hambook (VESCH). Seeding will then take place as soon as the season per the stability of the property of the property
- 21. Temporary erosion and sediment control measures shall not be removed until all disturbed areas are stabilized. Removal shall not occur without authorization by the local VESCPVSMP authority. Disturbances associated with the removal of temporary erosion and sediment control measures shall be properly stabilized.
- 23. Design and construction of private-type storm drainage systems, outside VDOT right-of-way, shall be performed in accordance with the current version of the James-City County, Engineering and Resource Protection Division, Stormwater Drainage Conveyance Systems (Non-BMP related), General Design and Construction Guidelines (ie. County Drainage Standards).
- 24. Record Drawings (Asbults) and Construction Certifications are required for all stormwater facilities including stormwater management/BMP facilities and storm drainage conveyance systems. The certification process shall include an internal observed-intel television camera (CCTV) post installation inspection performed by the owner in accordance with standards and specifications developed by the VSMP authority, Record drawings and construction certifications must meet established program requirements of the County's Chapter 8 Erosion and Sediment Control and VSMP Ordinance and the local VESCP-VSMP authority.

Williamburg, VA 23187-8784



351 McLaws Circle Suite 3 Williamsburg, VA 23185 757.220.0500

WILLIAMSBURG, VA

# **Busch Gardens** Project 2017

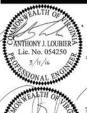
7851 Pocahontas Trail Williamsburg, Virginia

Revised Per County Comments	3414000	For .
remied Fee County Comments		

February 3, 2016

Not Approved for Construction





3 PIOTR SWIETUCHOWSKI Lic. No. 044606 JCC CASE #SP-0007-2016 33273.68



351 McLaws Circle Suite 3 Williamsburg, VA 23185 757.220.0500

WILLIAMSBURG, VA

THE PURPOSE OF THIS PROJECT IS TO ADD SEVERAL SITE IMPROVEMENTS IN THE NEW FRANCE SECTION OF BUSCH CARDENS WILLIAMSBURG. THE PROJECT WILL INVOLVE CONCRETE DEMOLITION, CONSTRUCTION OF THREE NEW BULLIONS, THE DEMOLITION OF AN ENSING WOOD FRAME BUILDING, CLEARING, AND GRADNA, SERVICE ROAD IMPROVEMENTS, AND STORM SYSTEM IMPROVEMENTS. THE SITE IS LOCATED WEST OF THE LE SCOOT FLUME RICE AND SOUTH OF THE CARBOUT BRAIN STATION.

### EXISTING SITE CONDITIONS

THE SITE IS APPROXIMATELY 3.91 AGRES IN SIZE AND APPROXIMATELY 2.40 AGRES OF THE SITE WILL BE DISTURBED AS PART OF THIS PROJECT. THE EXISTING PARCEL IS ZONED M-1 (LIMITED BUSINESS/MOUSTRIAL DISTRICT) IN JAMES CITY COUNTY. THE ENTIRE BUSING GARDENS PARCEL COVERS 362 AGRES. THE SITE. INCLUDES PORTIONS OF THE FLUME AND TRAIN ROBES IN THE NEW PRANCE SECTION OF BUSING AGRDENS. THE SITE INCLUDES PORTIONS OF THE FLUME AND TRAIN ROBES IN THE NEW PRANCE SECTION OF BUSING AGRDENS.

### ADJACENT AREA

THE SITE IS SURROUNDED BY STEEPLY SLOPED WOODS, CRAVEL STORAGE AREAS, AND ASPHALT SERVICE ROADS. THE AREA SURROUNDING THE CARBOU TRAIN STATION AND FLUME RIDE ENTRANCES IS THE NORTHERN LIBITS OF THE SITE. THE SITE IS BOUNDED TO THE SOUTH AND WEST BY SERVICE ROADS AND TO THE EAST BY THE FLUME RIDE.

NO OFF-SITE AREAS WILL BE DISTURBED DIRECTLY BY THE PROPOSED IMPROVEMENTS. DISPOSAL OF SPOILS AND DEBRIS WILL BE AT PROPERLY PERMITTED AND APPROVED FACILITIES.

ALL PROPOSED STEEP SLOPES WILL BE TREATED WITH BLANKET EROSON AND SEDIMENT CONTROL MATTING. TWO CONCRETE CHANNELS WILL BE INSTALLED CONNECTING EXISTING PIPES CROSSING THE RALLROAD TRACKS TO THE NEAREST EXISTING PAYEMENT. TWO CONCRETE CHANNELS WILL CONNECT THE TWO EXISTING 15' PIPES DRAINING TO THE LANN WEST OF THE RALLROAD TRACKS TO THE NEARBY PROPOSED DROP INJET. PROPOSED SWALES, RIVER ROCK GROUND PROTECTION, AND MULCH WILL STABILIZE THE GROUND SURROUNDING THE IMPROVEMENTS AT THE NORTHERN END OF THE SITE.

### DEMOLITION

THE EXISTING MOOSE LODGE LOST CHILDREN BUILDING WILL BE DEMOUSHED, THE EXISTING UTILITY CONNECTIONS WILL BE PROTECTED AND USED FOR SERVICING THE NEW BUILDINGS, ALL OF THE CONCRETE IN THE FORMER FAGLE'S NEST AREA AS WILL AS SOME PORTIONS OF SOSIEMAL AROUND THE CARBBUT TRAIN STATION AND MOOSE LODGE WILL BE REMOVED. THE CLEARING WILL BE SELECTIVE. ALL TREE CLEARING IS TO BE COORDINATED WITH THE CLUENT, A PORTION OF THE EXISTING ASPAILAT SERVICE ROAD TO THE FLUME BASN WILL BE REMOVED AND REPLACED, A RETAINING MALL ALLONG THE MESTRLY SIDE OF THE RAILROAD TRACKS WILL ETHER BE REMOVED OF BASTIFILED AND ABANDONED IN PLACES.

A W COPPER WATER SERVICE WILL BE RIN FROM THE EXISTING MOOSE LODGE WATER VALVE TO A HOSE BIG AT PROPOSED BUILDINGS 10 AND 20. RUNGFF FROM MECHANICAL IMPROVEMENTS (TO BE DESIGNED BY OTHERS) MILL CONTAIN GREAGE AND GILL A SANITARY SEMEN LIME MILL CARRY RUNGFF FROM THE OFF AND AND LAND WATER SEPERATOR. DISCHARGE FROM THE OIL AND WATER SEPARATOR WILL BE PUMPED TO THE EXISTING SANITARY LATERAL SERVICING THE MOOSE LODGE. FUTURE LIGHTING AND ELECTRIC SERVICE TO THE PROPOSED BUILDINGS WILL BE DESIGNED BY AN MEP CONSULTANT.

### PROPOSED GRADING AND PAVING

ALL PROPOSED SIDEWALK AND CURB CONCRETE IS TO BE EXPOSED AGGREGATE. SWALES WILL ETHER BE BROOM FINISH CONCRETE OR SHOTCRETE. NEW CONCRETE SURFACES WILL BE INSTALLED AROUND THE FORMER LOCATION OF THE MODSE LODGE AND CARBIOU THAN STATION, ALSO, A FIVE FOOD WING SIDEWALK WILL MEANORE THROUGH THE FORMER EAGLE'S NEST AREA. SEVERAL PROPOSED DRAINAGE CHANNELS MILL BE EXPOSED AGGREGATE, CONCRETE, PORTIONS OF THE FLUME BASIN ACCESS ROAD WILL RECEIVE A NEW ASSHALT PAYMENT'S SECTION.

### AND SEDIMENT CONTROL MEASURES

- SAFETY FENCE (3.1): A PARK SPECIFIED WOOD BOARD ON BOARD FENCE WILL PROTECT GUESTS AND EMPLOYEES WITHIN THE PARK FROM ENTERING THE CONSTRUCTION SITE DURING PARK HOURS.
   CONSTRUCTION ENTRANCE WITH CONCRETE WASHOUT (3.2): REDUCES THE AMOUNT OF MUD TRANSPORTED ONTO PUBLIC ROADS BY MOTOR VEHICLES OR RUNGEY.
- SILT FENCE (3.05): SILT FENCE AND SILT FENCE WITH WIRE SUPPORT SHALL BE INSTALLED ALONG THE TOE
  OF ALL SLOPES AND ALL OTHER AREAS THAT MAY CARRY SILT BEYOND THE SITE. SILT FENCE SHALL
  ALSO BE INSTALLED ON THE DOWNHILL SIDE OF THE UTILITY EXTENSIONS.
- 4. STORM DATA INLET PROTECTION (3.07): ALL EXISTING AND PROPOSED INLETS SHALL BE PROTECTED FROM SEDIMENT PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREAS.

  COLLERT INLET PROTECTION (3.08): PREVENTS SEDIMENT FROM ENTERING, ACCUMULATING IN, AND TRANSPORTING THROUGH CULTURITS.
- 6. DIVERSION DIKE (3.09): DIVERTS STORM RUNOFF FROM UPSLOPE DRAINAGE AREAS AWAY FROM UNPROTECTED DISTURBED AREAS AND SLOPES TO A STABILIZED OUTLET.
- TEMPORARY SLOPE DRAIN (3.15): CONDUCTS CONCENTRATED STORMWATER SAFELY DOWN THE FACE OF A CUT OR FILL SLOPE WITHOUT CAUSING EROSION ON OR BELOW THE SLOPE.
- 8. SOL STABILIZATION BLANKETS AND MATTING (3.36): AIDS IN CONTROLLING EROSION ON CRITICAL AREAS BY PROVIDING A MICCOLIMATE WHICH PROTECTS YOUNG VEGETATION AND PROMOTES ITS ESTABLISHMENT.

9. DEWATERING: REMOVAL OF GROUNDWATER FOR EXCAVATIONS BELOW THE WATER TABLE.

### STABILIZATION MEASURES

- TEMPORARY SEEDING (3.31): STABILIZES DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR A PERIOD OF MORE THAN 14 DAYS.
   Regist
- 2. PERMANENT SEEDING (3.32): PERMANENTLY STABILIZES DISTURBED AREAS AND DECREASES SEDIMENT MELD.
- MULCHING (3.35): PREVENTS EROSION BY PROTECTING THE SOIL SURFACE FROM RAINDROP IMPACT AND REDUCING VELOCITY OF OVERLAND FLOW AND PROVIDES POTENTIAL VEGETATION INSULATION AGAINST HEAT AND COLD.

THE RHINE RIVER BMP CURRENTLY PROVIDES WATER QUALITY AND QUANTITY CONTROL FOR THE ENTIRE BUSCH GARDENS PROPERTY. THE DEVELOPMENT ASSOCIATED WITH THIS PROJECT FALLS WITHIN AN AREA DESIGNATED AS IMPERVOUS ON THE PREPAPROVED 2012 BUSCH GARDENS STORWMENTE MASTERPLAN. THE INCREASE IN IMPERVOUS AREA FOR THIS STE IS 0.09 ADRES. THE RHINE RIVER BMP CURRENTLY PROVIDES APPROXIMATELY 14 TIMES THE REQUIRED WATER QUALITY VALUATE. CONVENSION OF WOODED AREAS TO TURE AND INCREASING THE IMPERVOUS COVER BY 0.09 ACRES WILL SLIGHTLY INCREASE THE RUNOFF FROM THE STE. THE DESTROINS STORM SYSTEM BETWEEN THE SITE AND FINIS RIVER ME. BLANALYZED TO ENSURE IT HAS ADCQUARE CAPACITY, PORTIONS OF THE STORM SEWER UNDER THE FILLING RIDE ARE CURRENTLY UNDER CONSTRUCTION AS PART OF PERVOUSLY REPROVED STE THAN SP-0022-2013. THE INVESTE AND PUBLICATIONS UNDER CONSTRUCTION AS PART OF PERVOUSLY REPROVED STE THAN SP-0022-2013. THE INVESTE AND PUBLICATIONS UNDER CONSTRUCTION AS PART OF PERVOUSLY REPORCED THE PUBLISHED AS BUILT LOCATIONS SURVEYED BY WIRD IN DECREDITED BY THE CALCULATIONS ARE BASED ON PROPOSED AND AS-BUILT LOCATIONS SURVEYED BY WIRD IN DECREDITED BY THE PUBLISHED BY THE PUBLISHED BY THE PUBLISHED BY THE PUBLISHED BY THE DESCRIPTION OF THE PUBLISHED BY THE PUBLISH BY THE PUBLISH BY THE PUBLISH BY THE PUBLISHED BY THE PUBLISH BY THE PUBLISHED BY THE PUBL

THE BUSCH CARDENS STORMWATER MASTERPLAN HAS BEEN INCLUDED IN THIS SUBMITTAL TO PRESENT THE COMPLIANCE WITH CURRENT STORMWATER REGULATION. IMPERMOUS AREA TABULATIONS HAVE BEEN REVISED TO TRACK THE NORCASE IN THE PARK'S INFERMOUS COVERAGE.



# **Busch Gardens** Project 2017

7851 Pocahontas Trail Williamsburg, Virginia

February 3, 2016

Not Approved for Construction

**Environmental Inventory** 

ANTHONY J. LOUBIER Lic. No. 054250 PIOTR SWEETING HOWSE Lic. No. 044606

C-3 JCC CASE #SP-0007-2016



15F - EMPORIA COMPLEX, 25% TO 50% SLOPES THE EMPORIA SOIL IS WELL DRAINED.

TYPICALLY. THE SURFACE LAYER IS DARY CRAYSH BROWN FINE SANDY LOAM. THE SUBSUREACE LAYER IS PALE BROWN LOAM. THE SUBSUL IS YELLOWISH BROWN WITH LOSTLY STRONG BROWN AUTHLES. IN THE UPDER PART; YELLOWISH BROWN, FINH LANDY CLAY LOAM. AND CRAY MOTHED THE MIDDLE PART; AND MOTHLED GRAY AND BROWN,FIRM SANDY CLAY LOAM. IN THE LOWER PART. THE SUBSTRATUM IS VARIECATED GRAY, BROWN AND RED FROM SANDY CLAY LOAM.

THE SHRINK/SWELL POTENTIAL FOR THE EMPORIA SOILS ARE LOW TO MODERATE. THE EROSION FACTOR "K" IS FROM 0.20 TO 0.28. EMPORIA SOILS ARE IN HYDROLOGOC GROUP "C".

34B - UCHEE LOAMY FINE SAND, 2% TO 6% SLOPES

THE SHRINK/SWELL POTENTIAL FOR THE UCHEE SOIL IS MODERATE. THE EROSION FACTOR "K" IS FROM 0.20 TO 0.28. UCHEE SOILS ARE IN HYDROLOGIC GROUP "A".

35-UDDRITHENTS, LOAMY SOIL IS DEEP, SLOPES FROM 0 TO 70 PERCENT, AND POORLY DRAINED.
INCLUDED WITH THIS SOIL IN MAPPING ARE POORLY DRAINED BETHERA SOILS IN LOWER AREAS AND SLIGHT DEPRESSIONS. INCLUDED SOILS MAKE UP ABOUT 3
PERCENT OF THE UNIT.
THE RUNGEF CLASS IS HIGH, AND FREQUENCY OF FLOODING AND/OR PONDING IS NONE.

### 37 - URBAN LAND

ONSITE INVESTIGATION IS NEEDED TO DETERMINE THE SUITABILITY AND LIMITATIONS OF THE SOILS IN THIS UNIT FOR ANY USE.

THE SOILS IN THE MAP UNIT ARE NOT ASSIGNED TO A CAPABILITY SUBCLASS. NO IMPACT TO NON-TIDAL WETLANDS ARE PROPOSED.

TOTAL SITE AREA = 3.91 ACRES TOTAL DISTURBED AREA = 2.40 ACRES
DISTURBED AREA = 2.40 ACRES
DISTURBED AREA WITHIN RPA = 0.00 ACRES
25% SLOPES DISTURBED AREA (IN RPA) = 0.0 ACRES
TOTAL NON-TIDAL WETLANDS AREA (ADJACENT TO SITE) = 0.0 ACRES
TOTAL 25% SLOPES OR GREATER IMPACTED = 0.598 ACRES

## SITE IMPERVIOUS AREAS

	TOTAL SITE	RPA
PRE-DEVELOPMENT	1.79 ACRES	0.00 ACRES
POST DEVELOPMENT	1.88 ACRES	0.00 ACRES
% INCREASE	2.3%	0.0%

- NOTES:

  1) TIDAL WETLANDS: THERE ARE NO TIDAL WETLANDS LOCATED WITHIN THE PROJECT AREA INCLUDING THE RPA AND RIMA AREAS.

  2) TIDAL SHORES: THERE ARE NO TIDAL SHORES LOCATED WITHIN THE PROJECT AREA INCLUDING THE RPA AND RIMA.

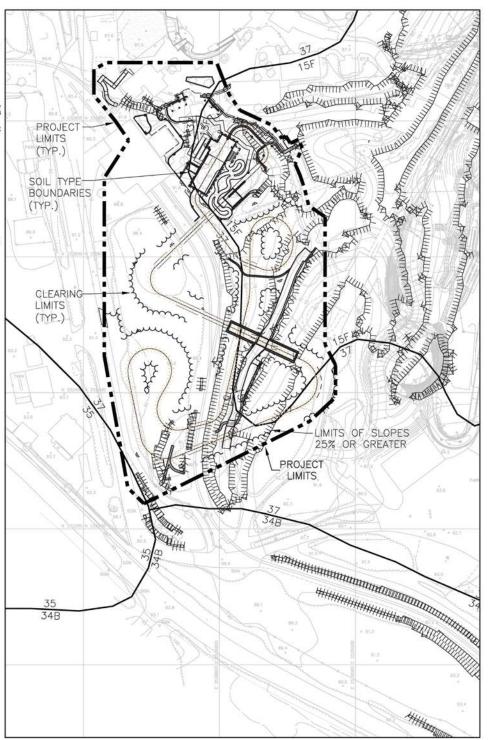
  3) NON-TIDAL WETLANDS: THERE ARE NO NON-TIDAL WETLANDS LOCATED WITHIN THE PROJECT AREA INCLUDING THE RPA AND RIMA.

  4) 100 FOOT RPA BUFFER: THE 100 FOOT RPA BUFFER IS SHOWN AS EXTENDING 100 FEET LANDWARD OF THE EXISTING RHINE RIVER SHORELINE.

  5) 25% SLOPES: SLOPES OF 25% OR GREATER ARE SHOWN ON THIS SHEET AND ARE BASED ON AERIAL TOPOGRAPHIC SURVEYS OF THE AREA. 0.598 Ac ARE IMPACTED.

  6) FLOOD ZONE: THIS PROJECT IS LOCATED WITHIN FEMA FIRM ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN) AS SHOWN ON FEMA—NFIP FLOOD, INSURANCE RATE MAP; MAP NUMBER 51095C0207D DATED DECEMBER 16, 2015.

Natic Maria
Schedule
Mobilization April 2016
Clearing April 2016
Site Demolition April 2016
Site Paving May 2016 — March 2017
Landscaping March 2017







Williamsburg, VA 23185 757.220.0500

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# **Busch Gardens** Project 2017

7851 Pocahontas Trail

No.	Revision	Date	Appyd
1	Revised Per County Comments	3/11/2016	PS

February 3, 2016

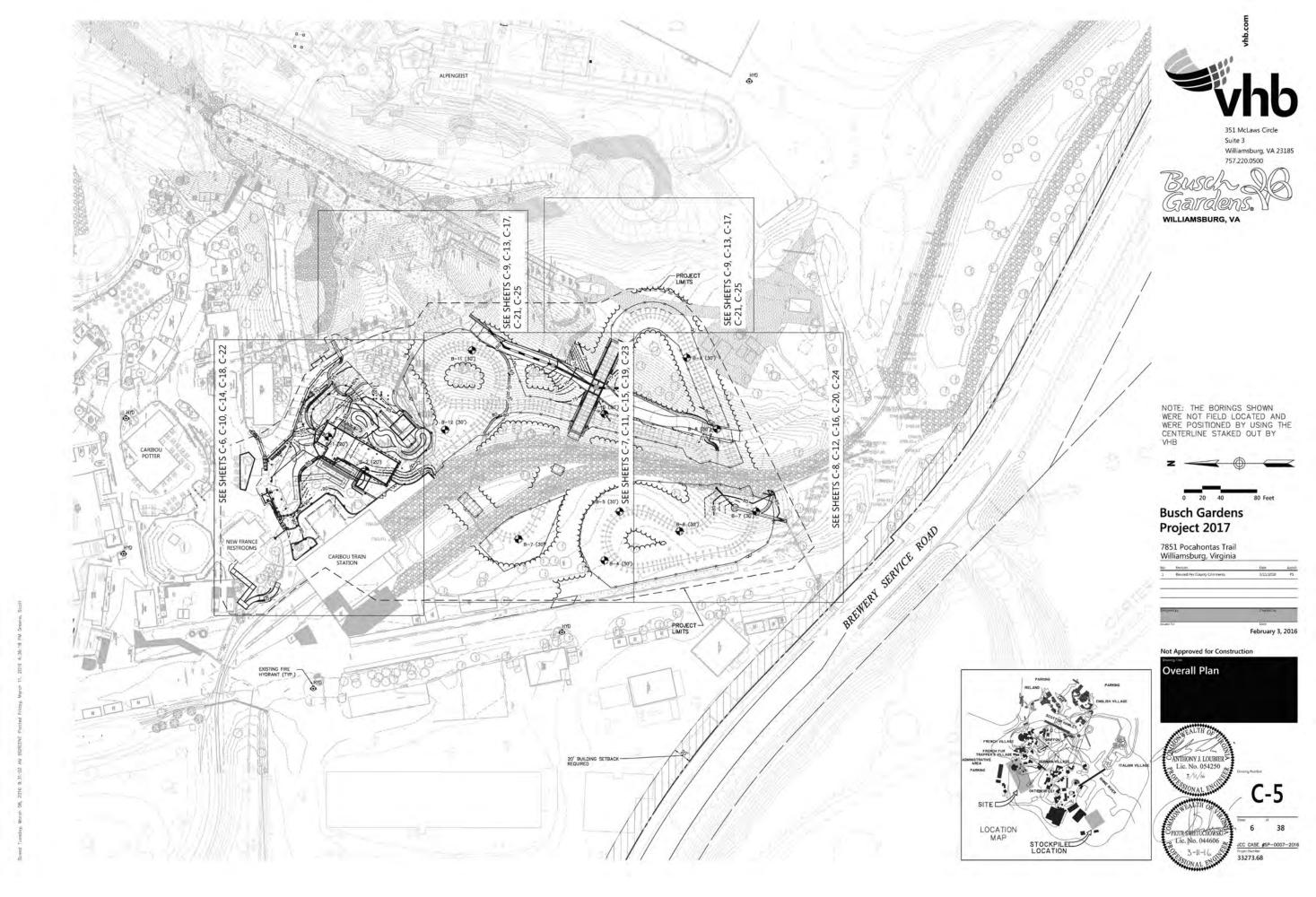
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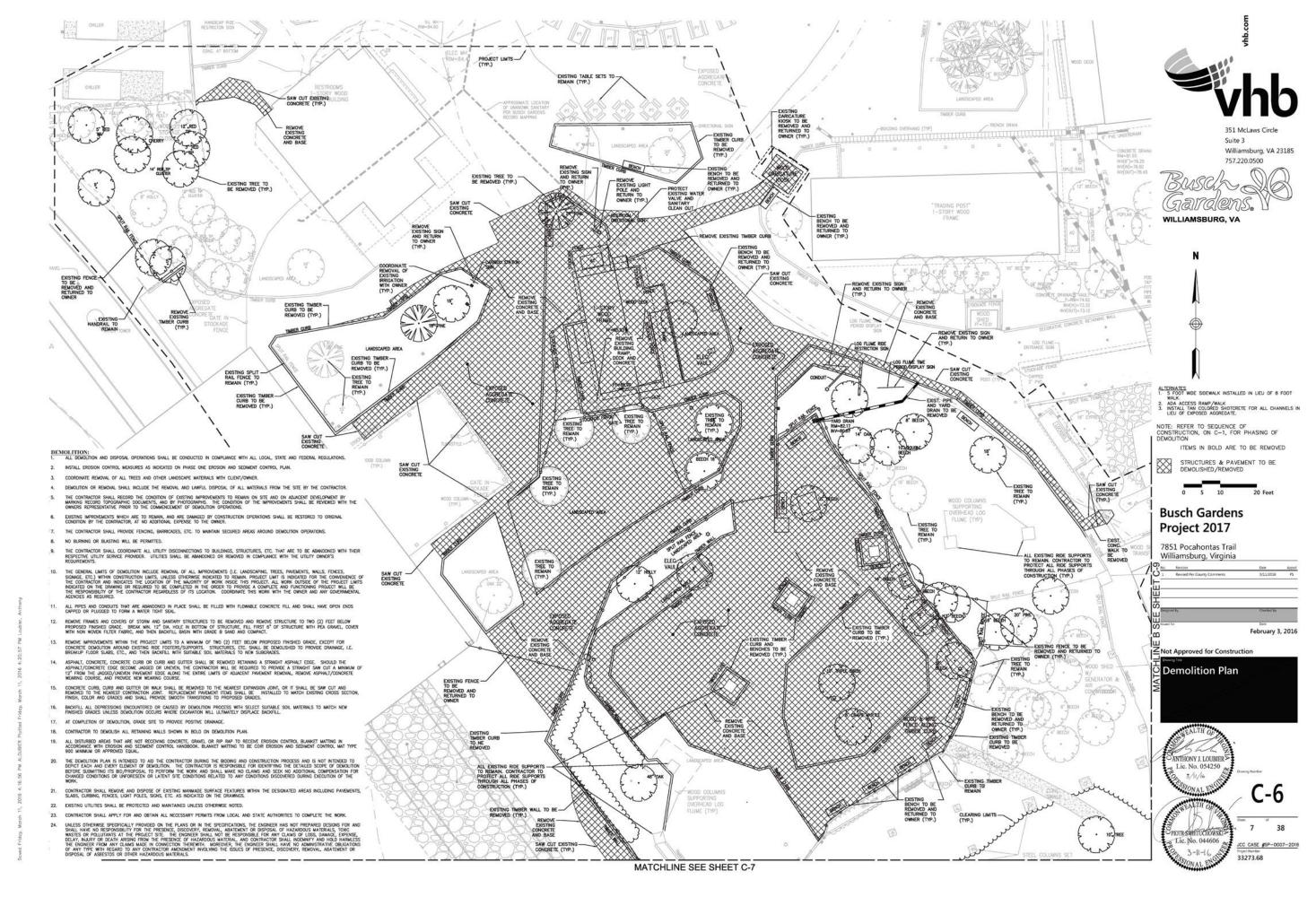
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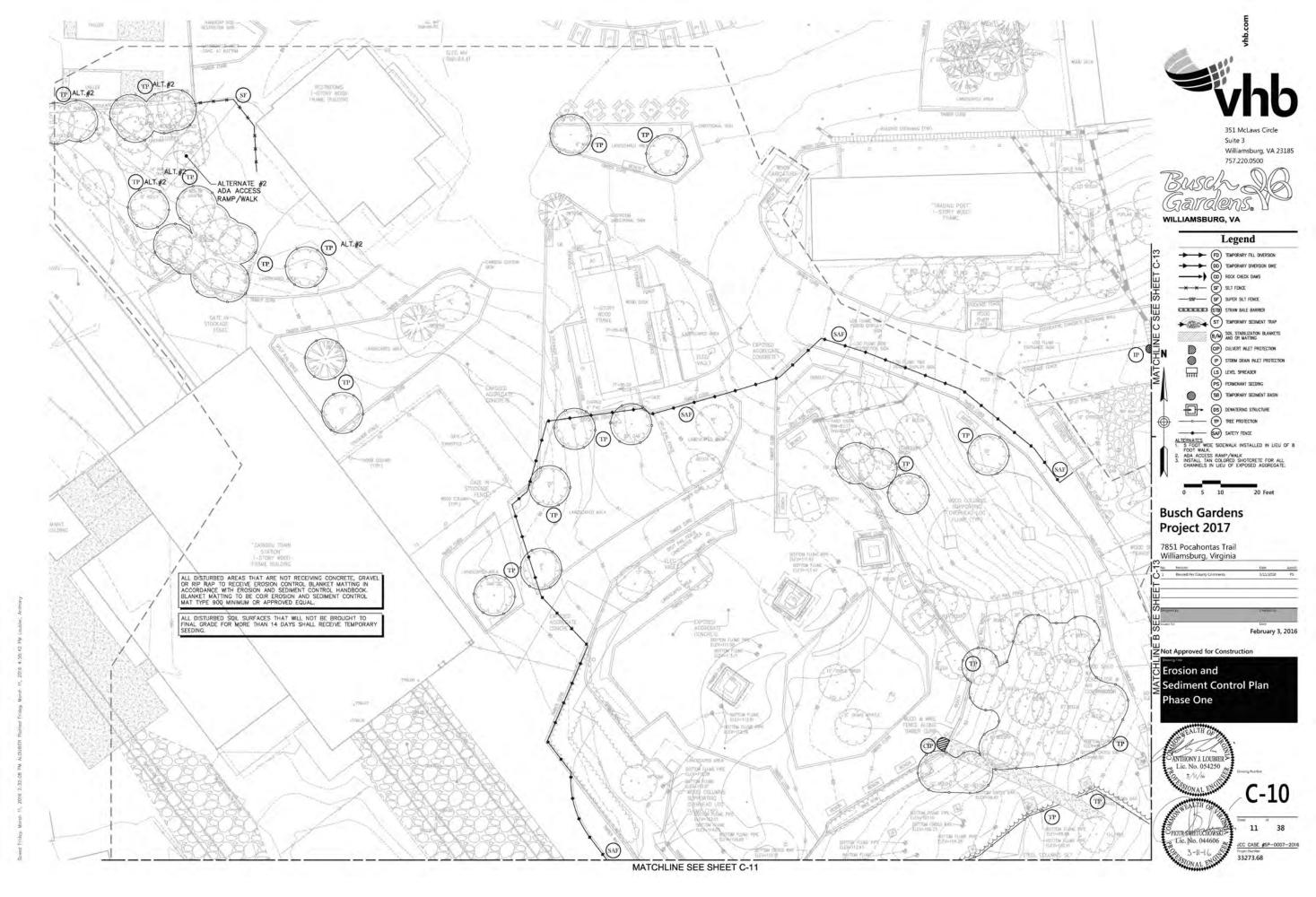
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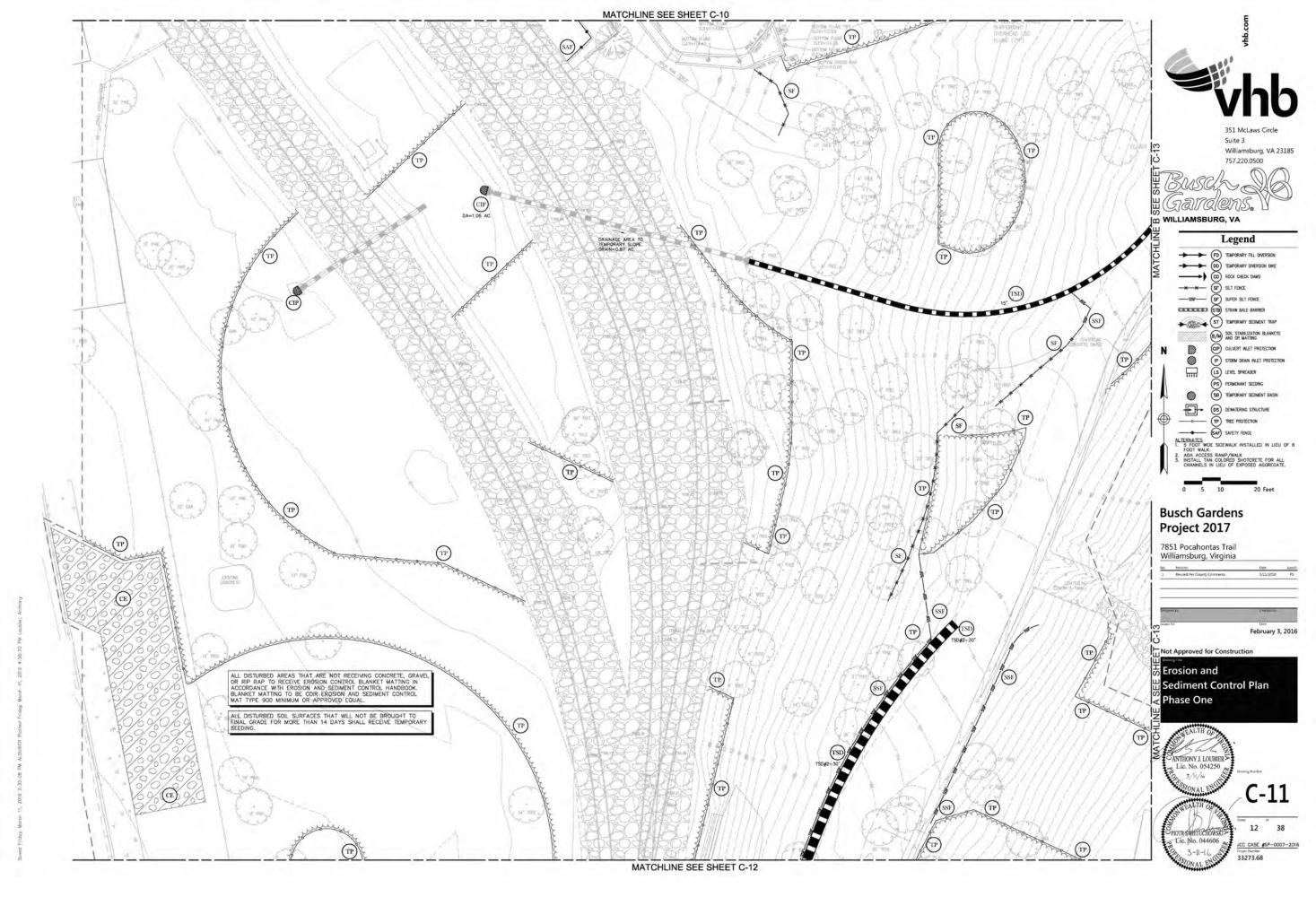
JCC CASE #SP-0007-2016

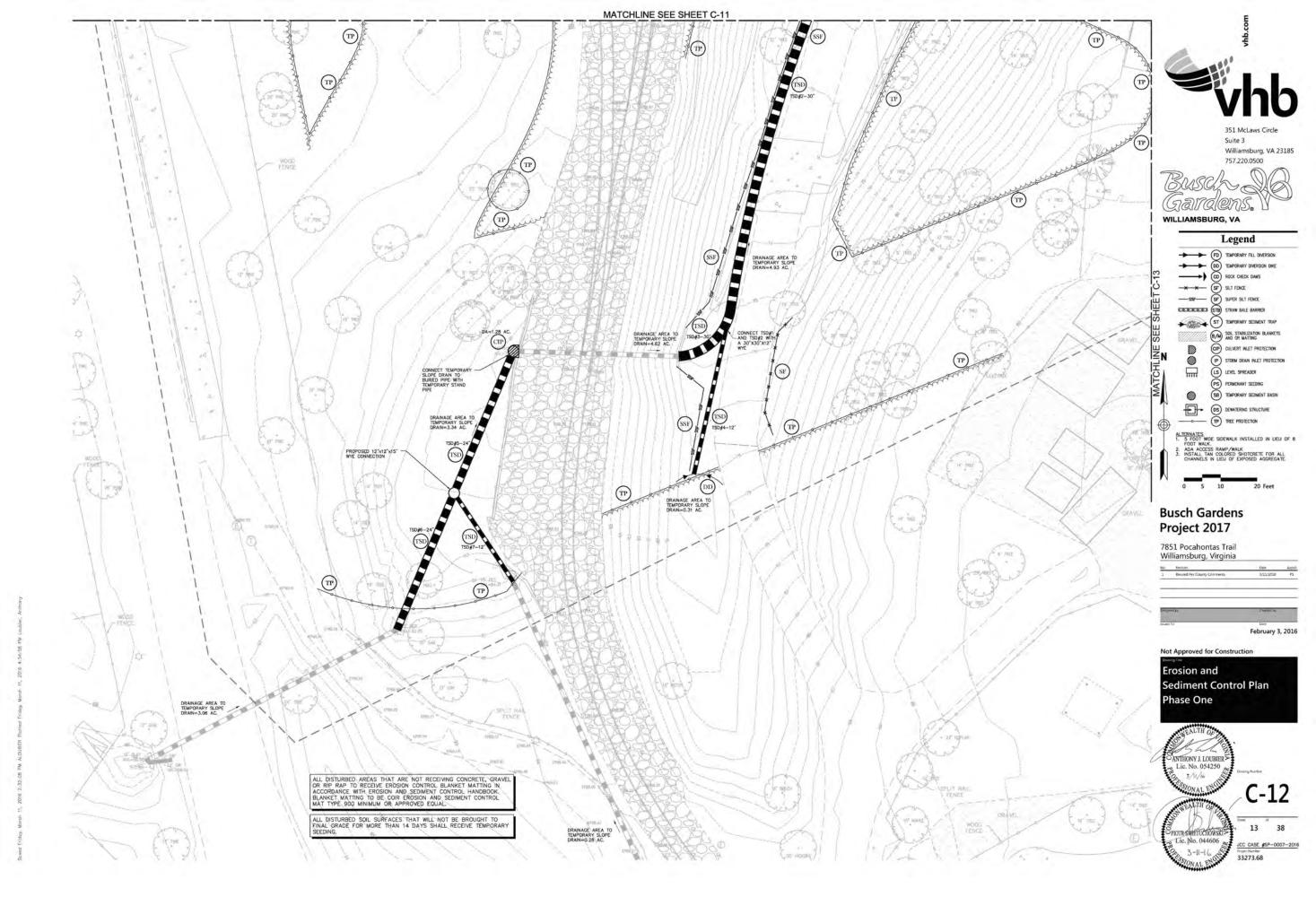


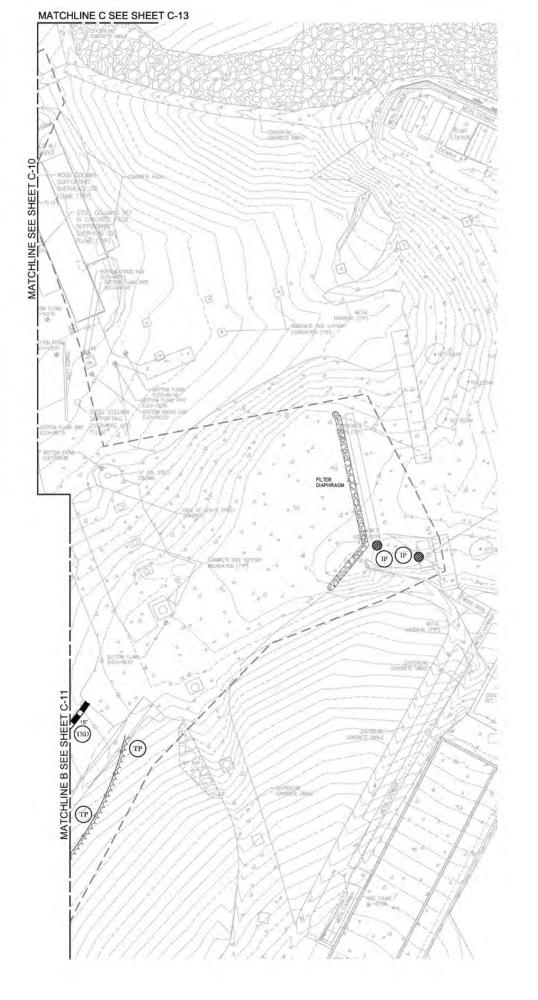










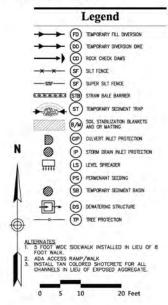




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# Busch Gardens Project 2017

7851 Pocahontas Trail Williamsburg, Virginia

Appro	Own	Revision	No
PS	3/11/2016	Revised Per County Comments	ī
_	3/11/2016	Revised Per County Comments	1

February 3, 2016

Not Approved for Construction

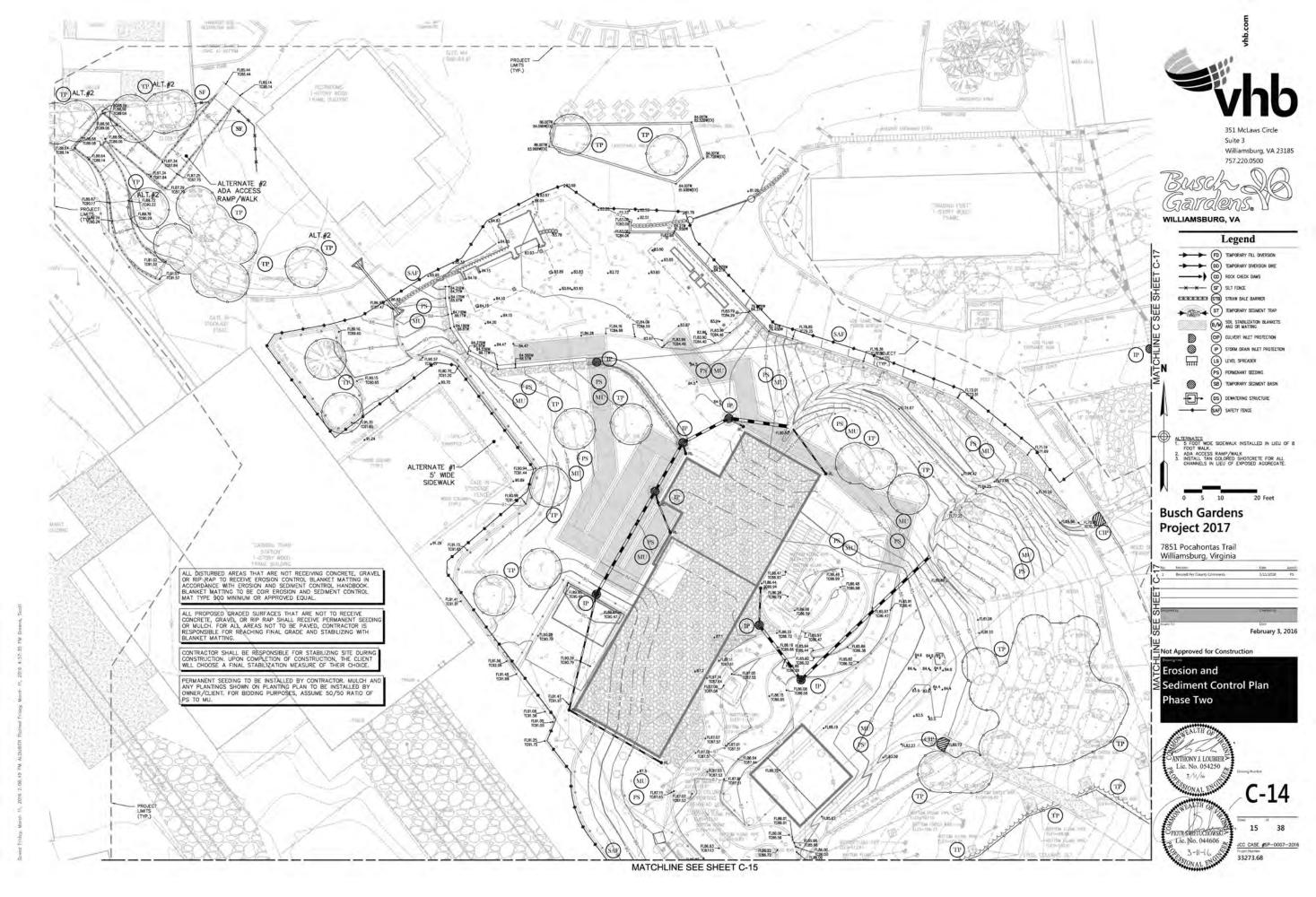
Erosion and Sediment Control Plan Phase One

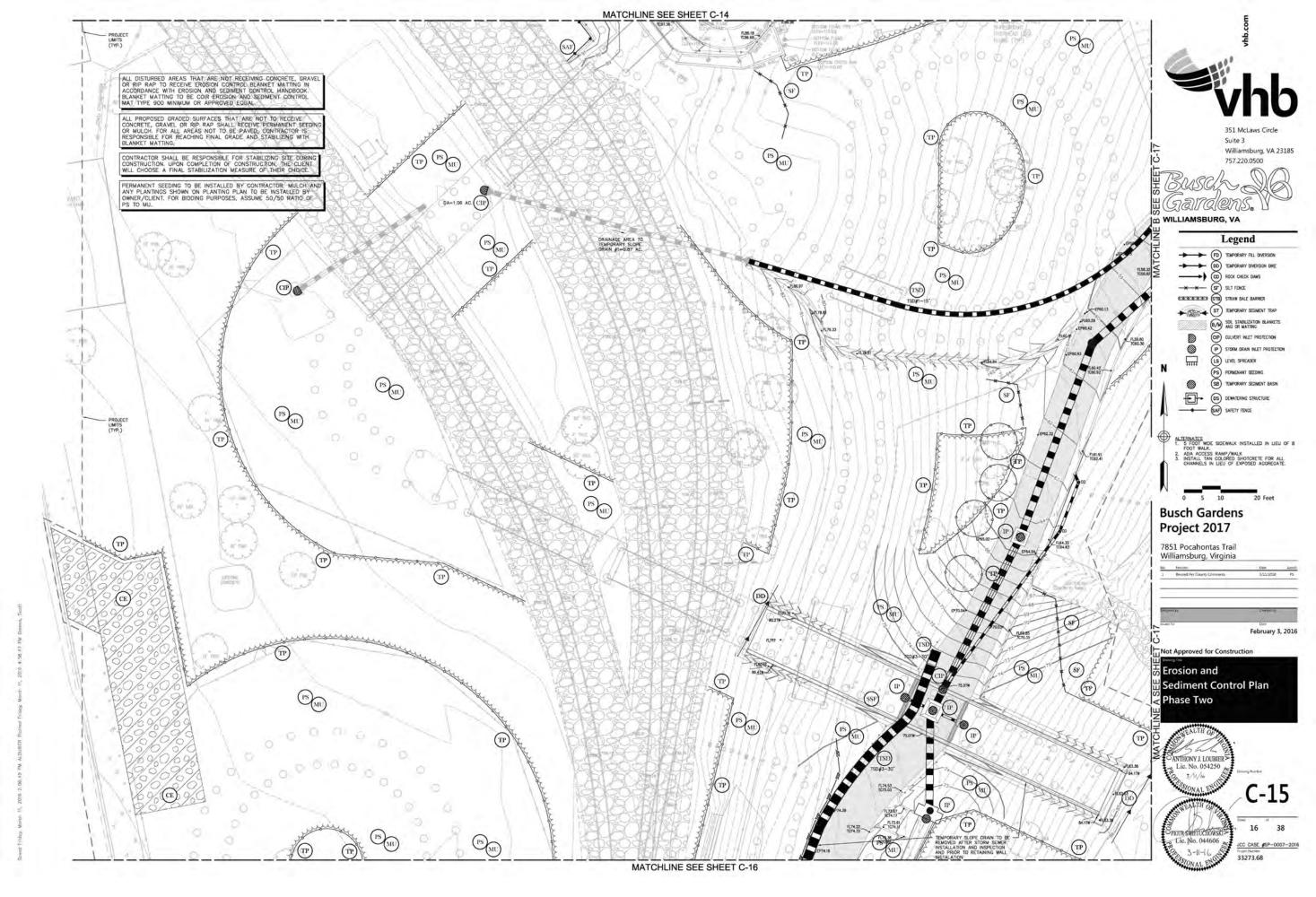


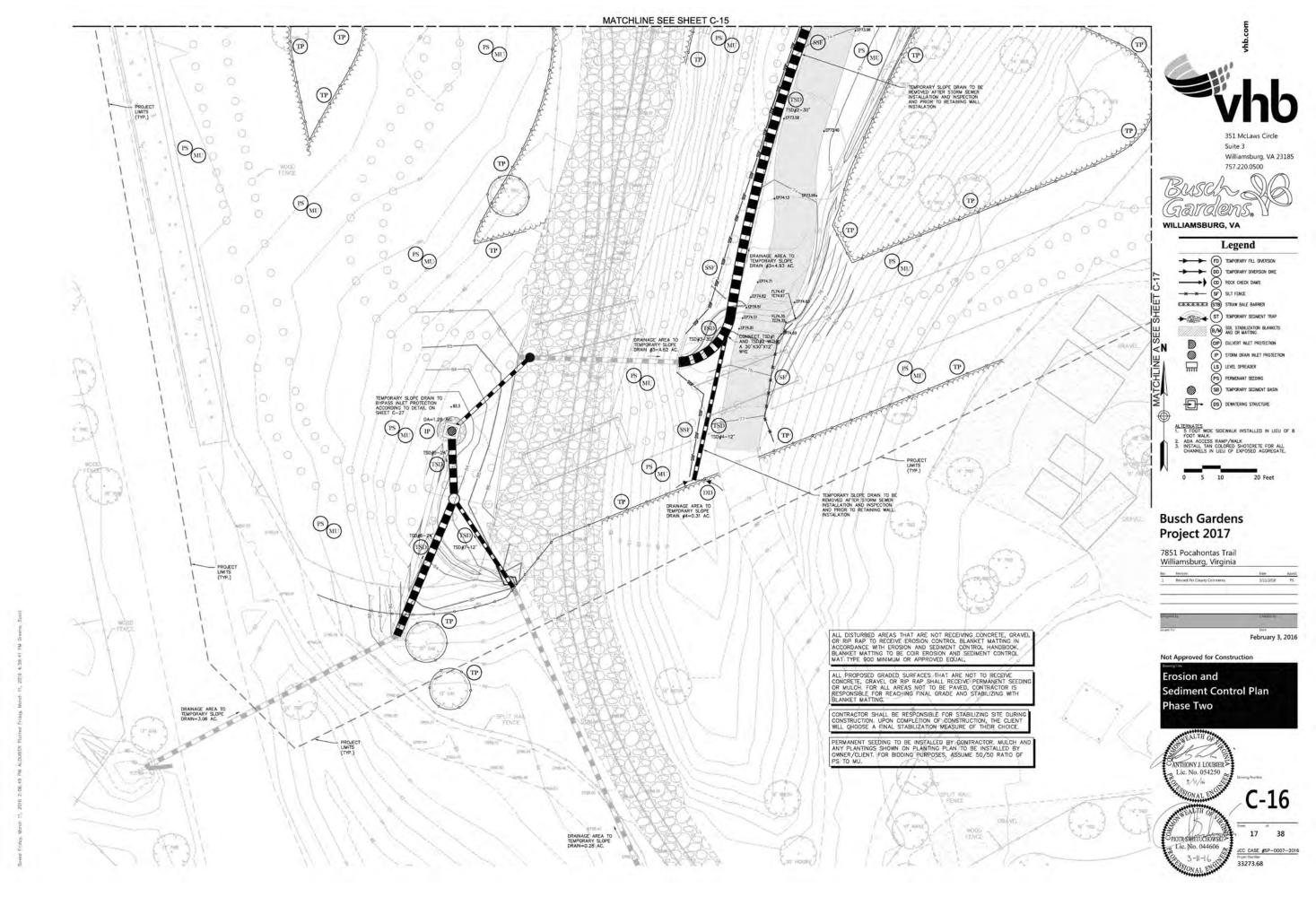
C-13

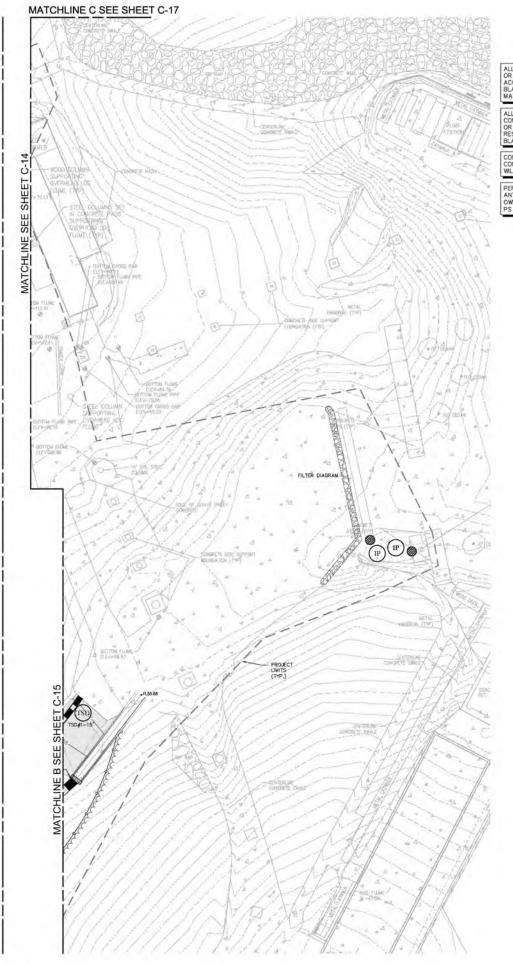
14 38

JCC CASE #SP-0007-2016 Project Number 33273.68









ALL DISTURBED AREAS THAT ARE NOT RECEIVING CONCRETE, GRAVEL OR RIP RAP TO RECEIVE EROSION CONTROL BLANKET MATTING IN ACCORDANCE WITH EROSION AND SEDIMENT CONTROL HANDBOOK. BLANKET MATTING TO BE COIR EROSION AND SEDIMENT CONTROL MAT TYPE 900 MINIMUM OR APPROVED EQUAL.

ALL PROPOSED GRADED SURFACES THAT ARE NOT TO RECEIVE CONCRETE, GRAVEL OR RIP RAP SHALL RECEIVE PERMANENT SEEDING OR MULCH. FOR ALL AREAS NOT TO BE PAVED, CONTRACTOR IS RESPONSIBLE FOR REACHING FINAL GRADE AND STABILIZING WITH BLANKET MATTING.

CONTRACTOR SHALL BE RESPONSIBLE FOR STABILIZING SITE DURING CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION, THE CLIENT WILL CHOOSE A FINAL STABILIZATION MEASURE OF THEIR CHOICE.

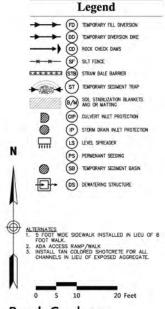
PERMANENT SEEDING TO BE INSTALLED BY CONTRACTOR. MULCH AND ANY PLANTINGS SHOWN ON PLANTING PLAN TO BE INSTALLED BY OWNER/CLIENT. FOR BIDDING PURPOSES, ASSUME 50/50 RATIO OF PS TO MU.



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## WILLIAMSBURG, VA



# Busch Gardens Project 2017

7851 Pocahontas Trail Williamsburg, Virginia

New Kenton Use Appet

Revised Per County Contrivents 3/21/2016 PS

February 3, 2016

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Erosion and Sediment Control Plan Phase Two

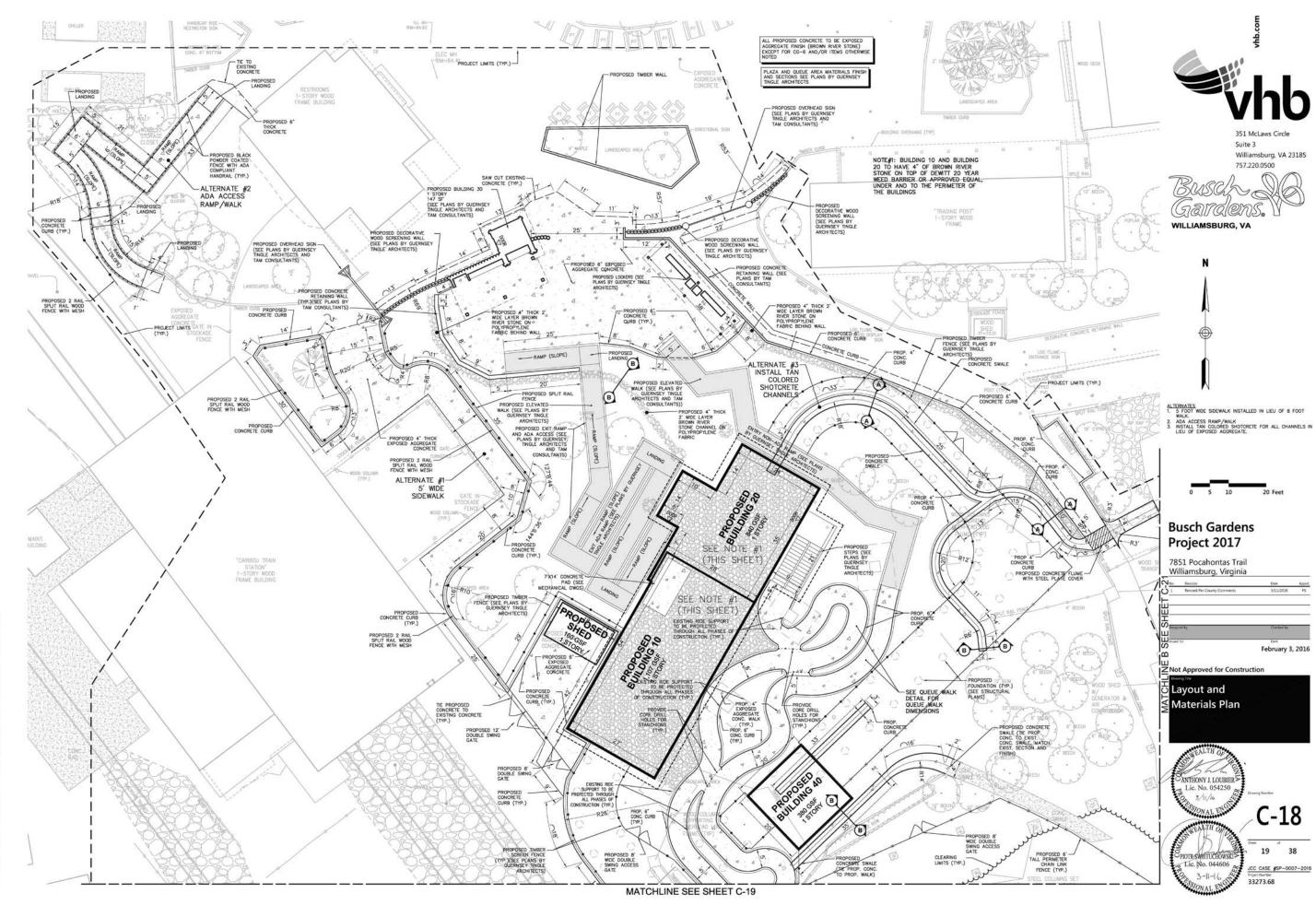


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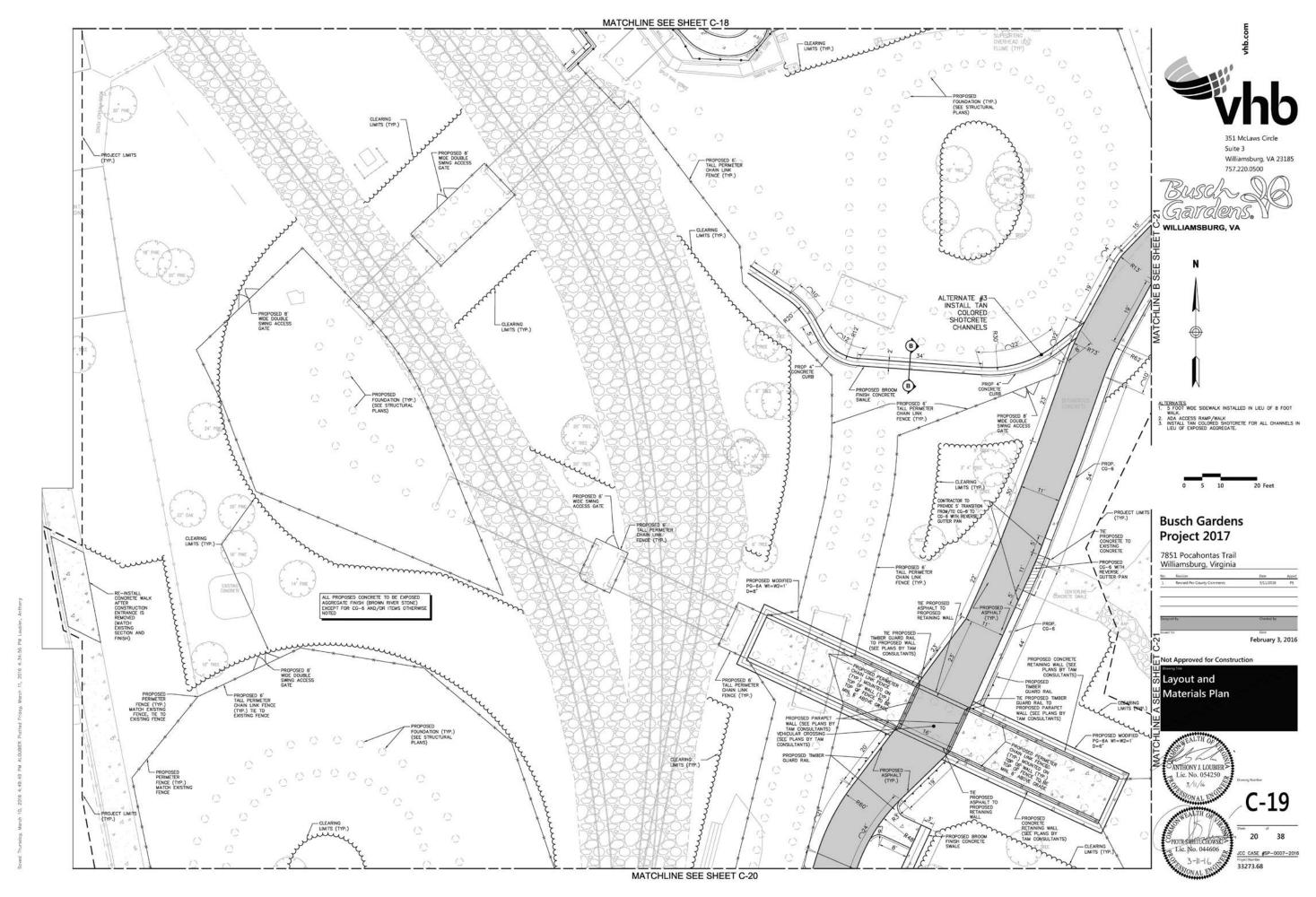
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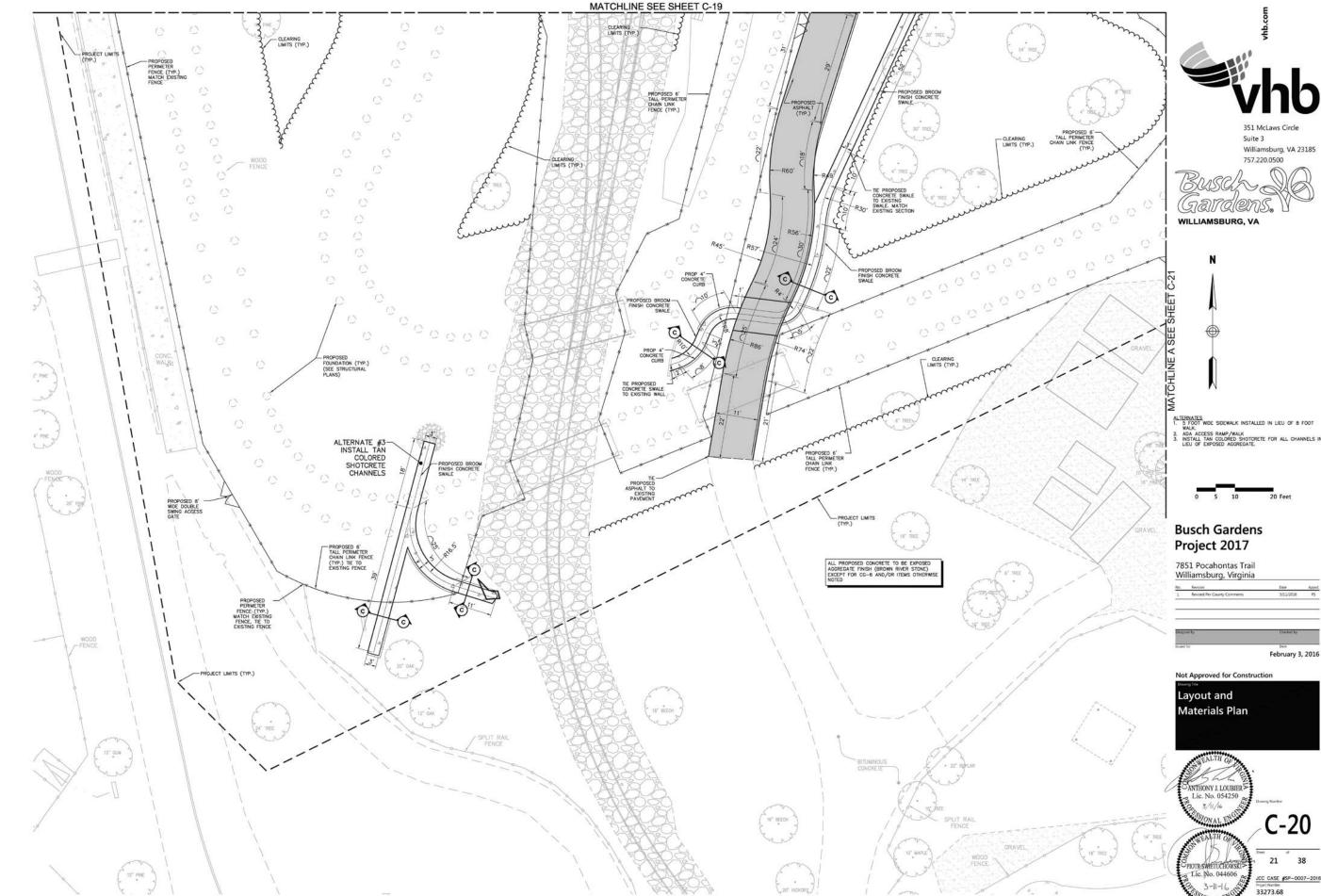
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JCC CASE #SP-0007-2016 Projet Number 33273.68

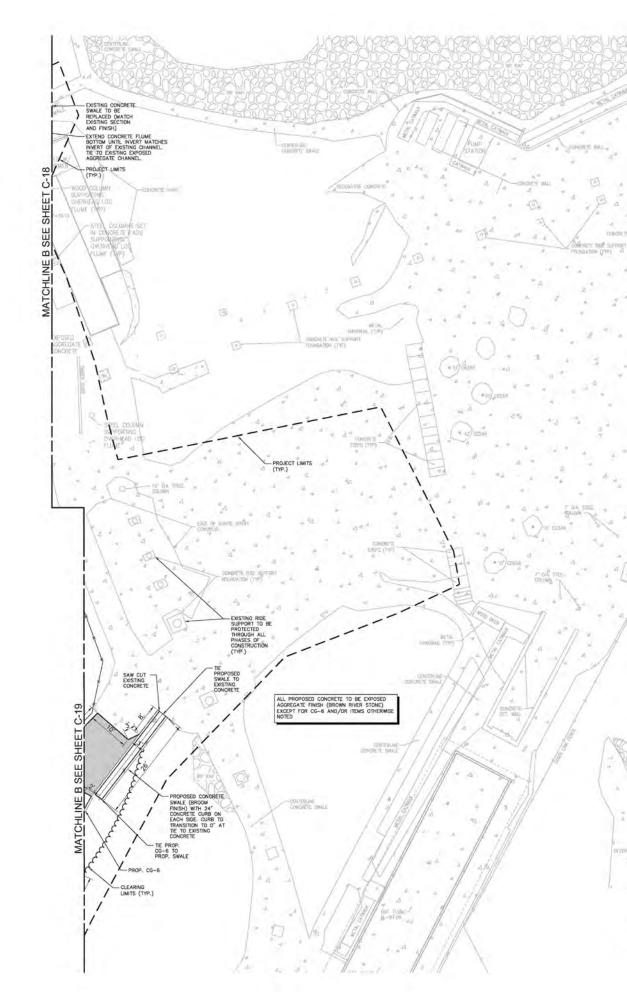


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3/11/2016	PS
3777777	
	3/11/2016





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WILLIAMSBURG, VA



ALTERNATES

1. 5 FOOT WIDE SIDEWALK INSTALLED IN LIEU OF 8 FOOT

2. ADA ACCESS RAMP/WALK

3. INSTALL TAN COLORED SHOTCRETE FOR ALL CHANNELS IN
LIEU OF EPPOSED ACGERCATE.



# **Busch Gardens** Project 2017

7851 Pocahontas Trail Williamsburg, Virginia

No.	Revision	Date	Appvid
1	Revised Per County Comments	3/11/2016	PS

February 3, 2016

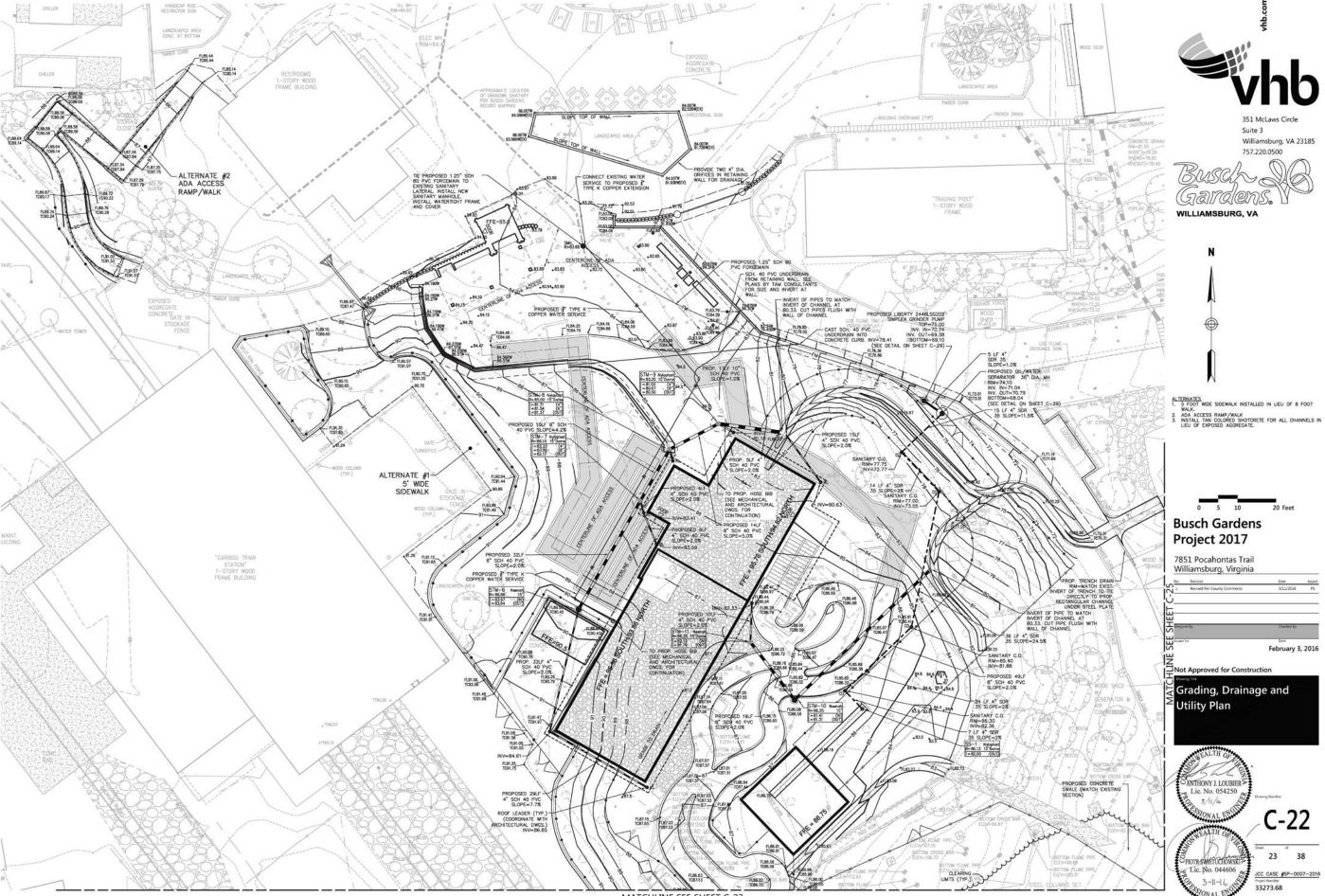
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C-21

JCC CASE #SP-0007-2016



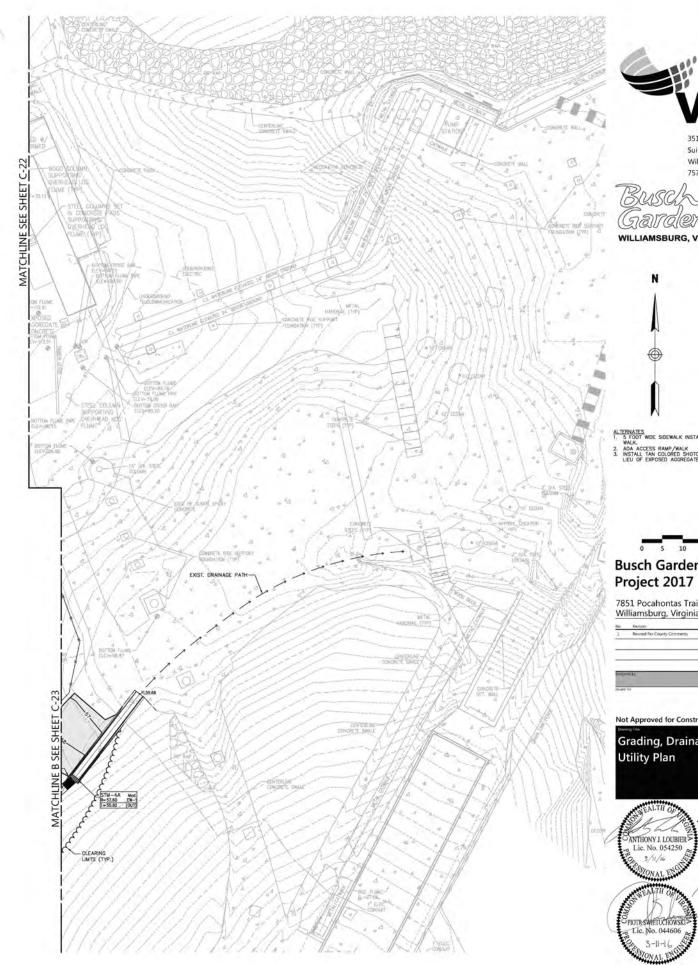
Williamsburg, VA 23185

Issued for	February 3, 2016
	Date
Designed by	Classicity
1 Revised Per County Comments	3/11/2016 PS

MATCHLINE SEE SHEET C-23









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WILLIAMSBURG, VA



ALTERNATES
1. S. FOOT WIDE SDEWALK INSTALLED IN LIEU OF 8 FOOT
VALK
2. ADA ACCESS RAMP/WALK
3. INSTALL TAN COLORED SHOTCRETE FOR ALL CHANNELS IN
LIEU OF EPPOSED AGGREGATE.



7851 Pocahontas Trail Williamsburg, Virginia

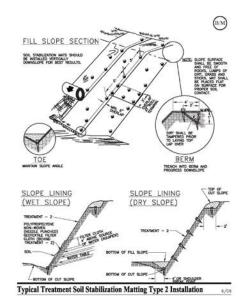
February 3, 2016

Grading, Drainage and Utility Plan

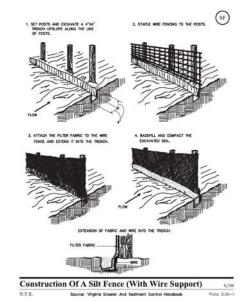
ANTHONY J. LOUBIER D. Lic. No. 054250

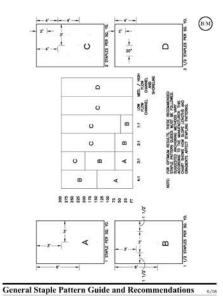
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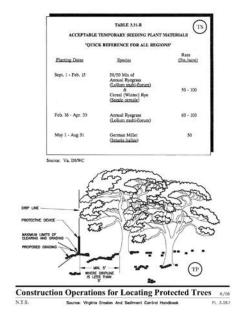
Stone Construction Entrance

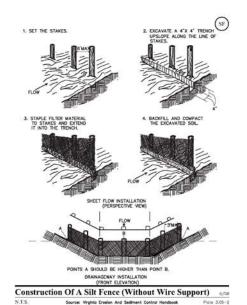


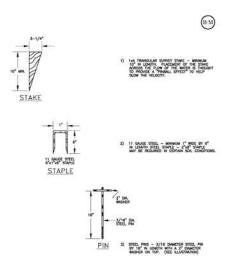


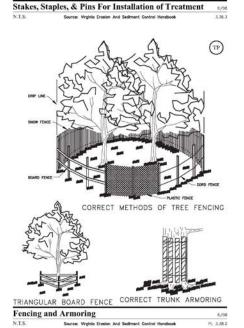


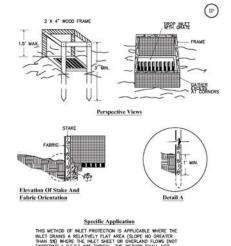




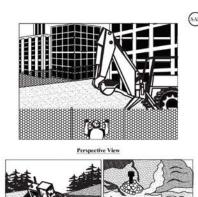












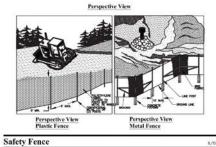
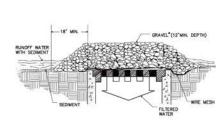
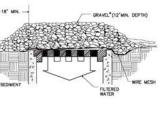


		TABLE 3.35-A	-10-11-11-11-11-11-11-11-11-11-11-11-11-
OR	GANIC MULCH MAT	TERIALS AND APPLI	CATION RATES
MIN PLUTP	RA	TES:	77777043647
MULCHES:	Per Acre	Per 1000 sq. ft.	NOTES:
Straw or Hay	1 ½ -2tons (Minimum 2 tons for winter cover)	70 - 90 lbs.	Free from weeds and coarse motter. Must be anchored. Spread with mulch blower or by hand.
Fiber Mulch	Minimum 1500 lbs.	35 lbs.	Do not use as mulch for winter cover or during hot, dry periods.* Apply as sturry.
Corn Stolks	4 - 6 tons	185 - 275 lbs.	Cut or shredded in 4-6" lengths. Air-dried. Do not use in fine turf oreas. Apply with mulch Blower or by hand.
Bark Chips	4 - 6 tons	165 - 275 lbs.	Free of coorse motter. Alr-dried, Treat with 12/bs. nitrogen per ton. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand.
Bark Chips or Shredded Bark	50 - 70 cu. yds.	1 - 2 yds.	Free of coorse motter. Air-dried. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand.







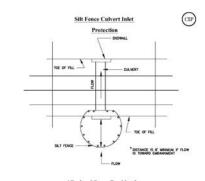
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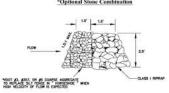
757.220.0500 WILLIAMSBURG, VA

Suite 3

Williamsburg, VA 23185







Silt Fenc	e Culvert	Inlet Protection	6/08
N.T.S.	Source	Virginia Erosion And Sediment Control Handbook	Plate 5.08~

# **Busch Gardens** Project 2017

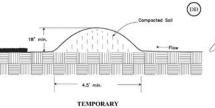
7851 Pocahontas Trail Williamsburg, Virginia

_	Revised Per County Comments	200,000,000	_

February 3, 2016

Not Approved for Construction



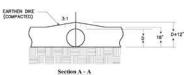


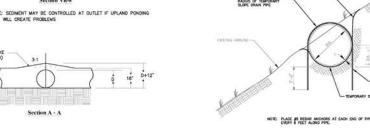
Diversio	n Dike	6/08
N.T.S.	Source: Virginia Eraelon And Sediment Control Handbook	Plate 3.09-1

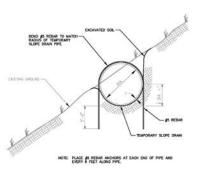
ANTHONY J. LOUBIER Lic. No. 054250 JCC CASE #SP-0007-2016

HI - 204

Source: Vo. DSWC Mulching

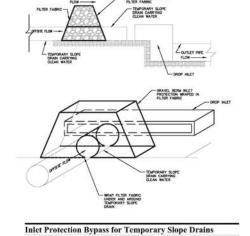




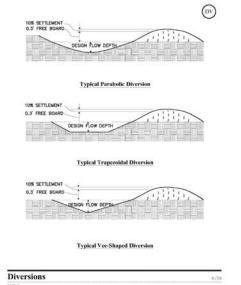


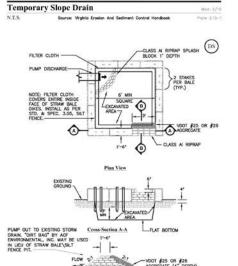
Temporary Slope Drain Anchor Slope Installation Detail

(ISD)

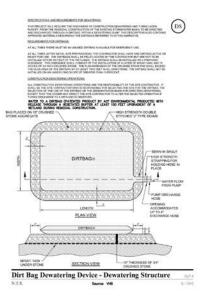


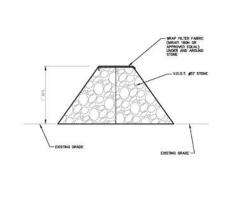
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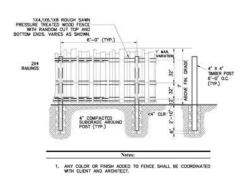




Straw Bale/Silt Fence Pit-Dewatering Structure







SAF







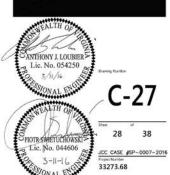
# **Busch Gardens** Project 2017

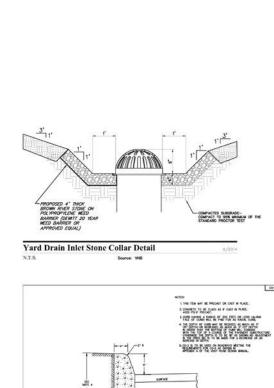
7851 Pocahontas Trail Williamsburg, Virginia

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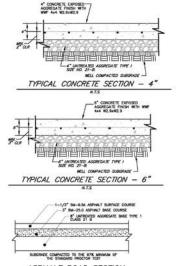
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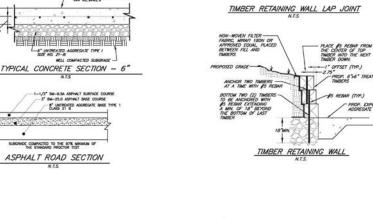
**Erosion and Sediment Control Details** 

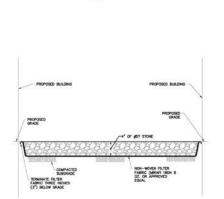


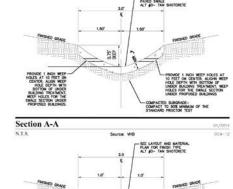


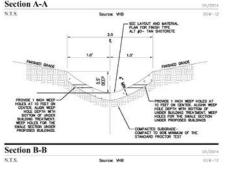
STANDARD 6" CURB

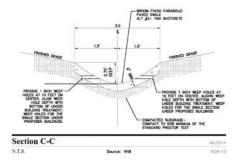


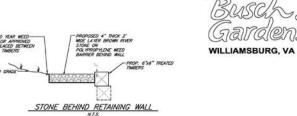


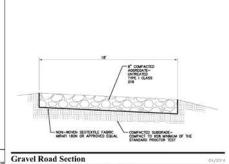


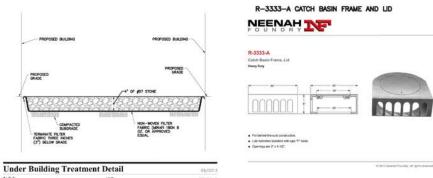


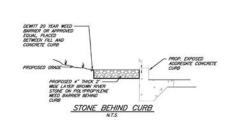


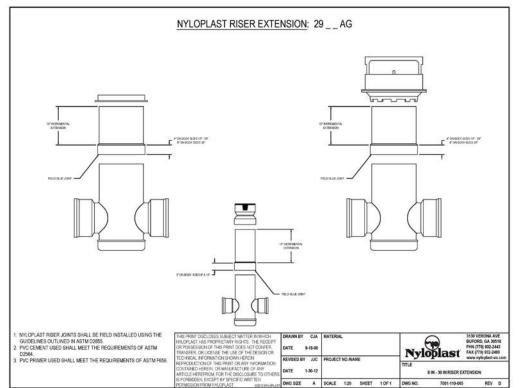


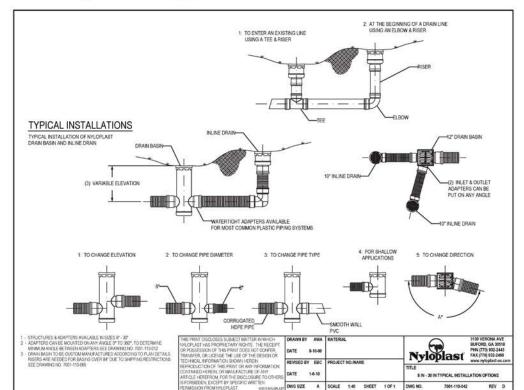




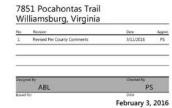










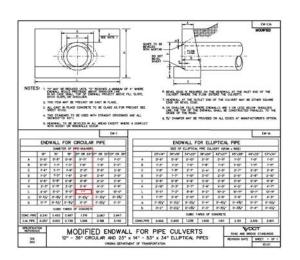


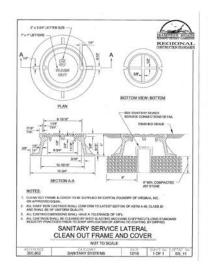
Suite 3

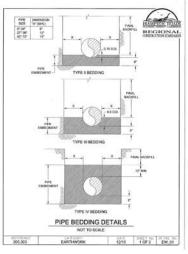
Williamsburg, VA 23185 757.220.0500

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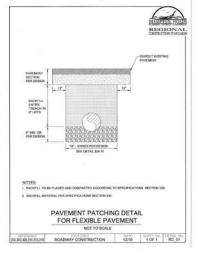




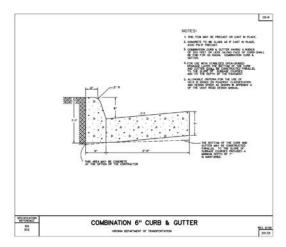


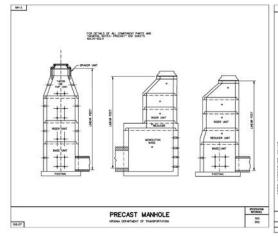


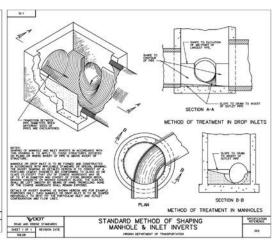


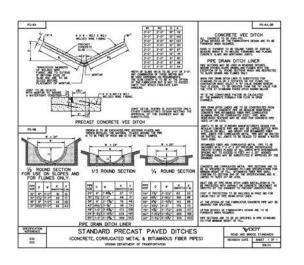


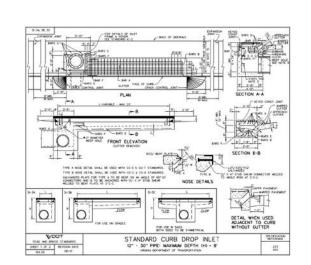


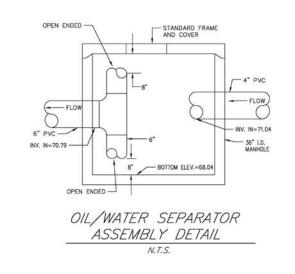


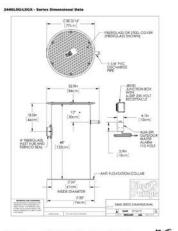


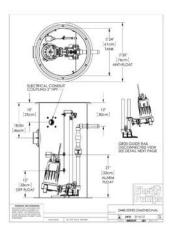


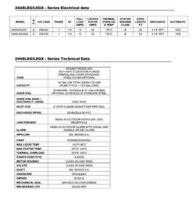












# Busch Gardens Project 2017

7851 Pocahontas Trail Williamsburg, Virginia

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February 3, 2016





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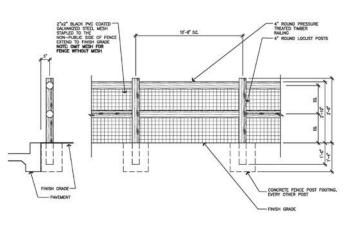
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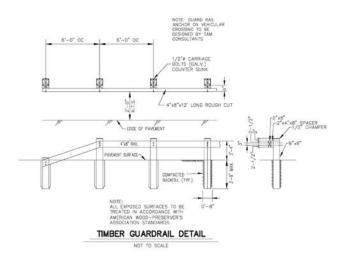
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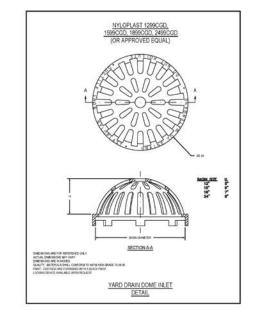
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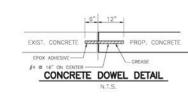
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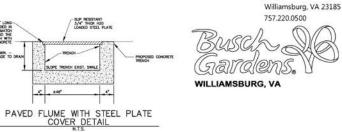
Pumps





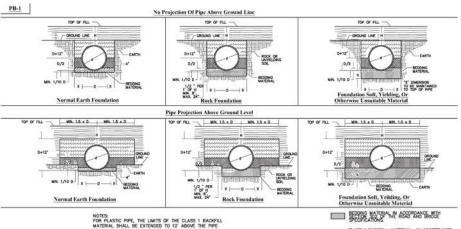


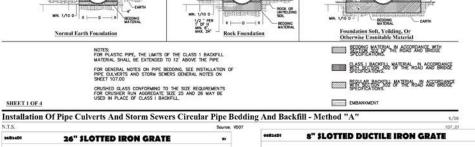


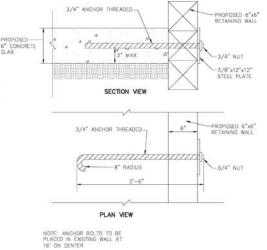


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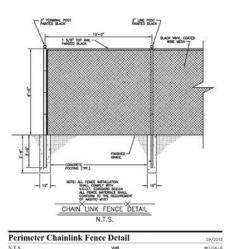


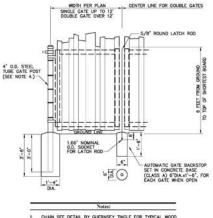






ANCHOR BOLT FOR RETAINING WALL





MOTE: CONTRACTOR TO PROMDE DESIGN AND SHOP SRAWINGS AND SUBJECT TO ENGINEER AND OWNER FOR REVIEW AND APPROVAL.

CHAIN SEE DETAIL BY GUERNSEY TINGLE FOR TYPICAL WOOD FENCE ELEVATION.

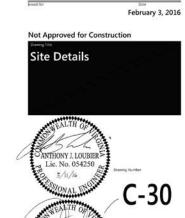
- 3. FENCE POSTS AND HARDWARE SHALL BE GALVANIZED STEEL PER SPECIFICATIONS.
- GATE POSTS TO BE USED ON EACH SIDE OF SINGLE AND DOUBLE GATE OPENINGS.

Chain Link Fer	ice Gate	6,/0
N.T.S.	Source: VHB	REV 10.48

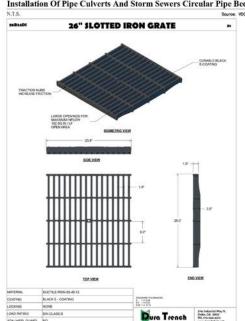
# 7851 Pocahontas Trail Williamsburg, Virginia

**Busch Gardens** 

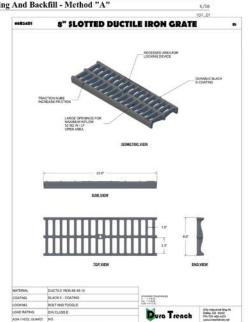
Project 2017

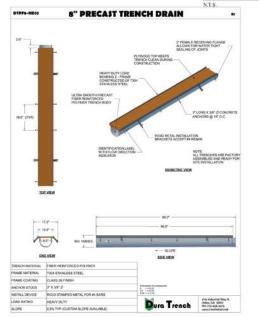


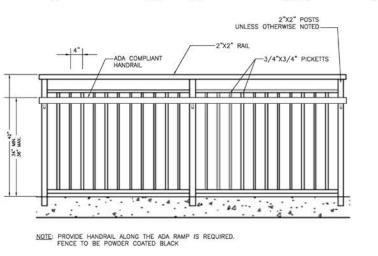
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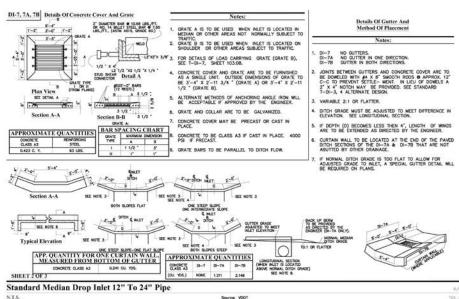


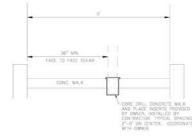


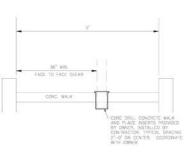


MANUFACTURER: PARADISE RAILINGS; MODEL: R-2 OR APPROVED EQUAL

ANODIZED ALUMINUM FENCE DETAIL

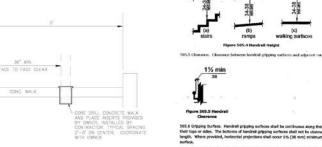


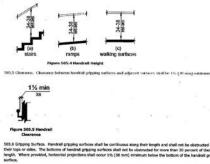


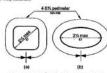






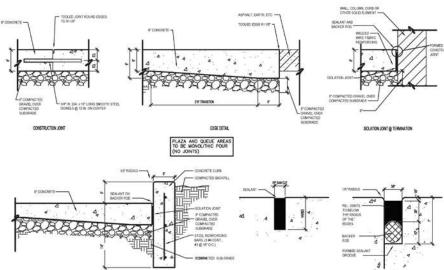


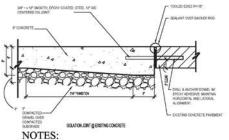


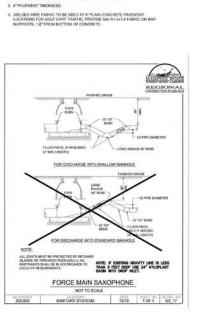


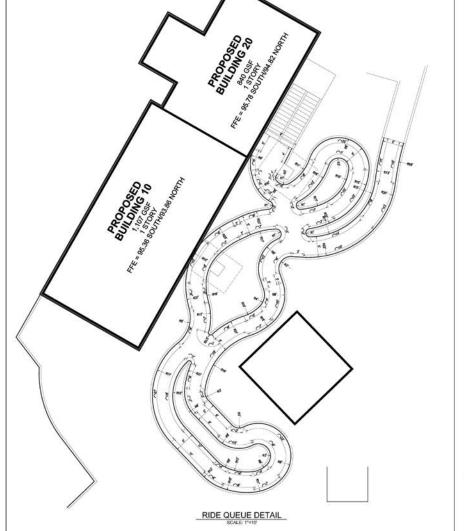
Suite 3 Williamsburg, VA 23185 757.220.0500

WILLIAMSBURG, VA









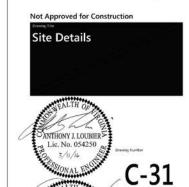


7851 Pocahontas Trail Williamsburg, Virginia

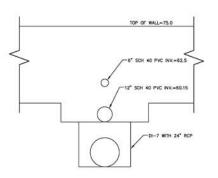
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February 3, 2016

JCC CASE #SP-0007-2016



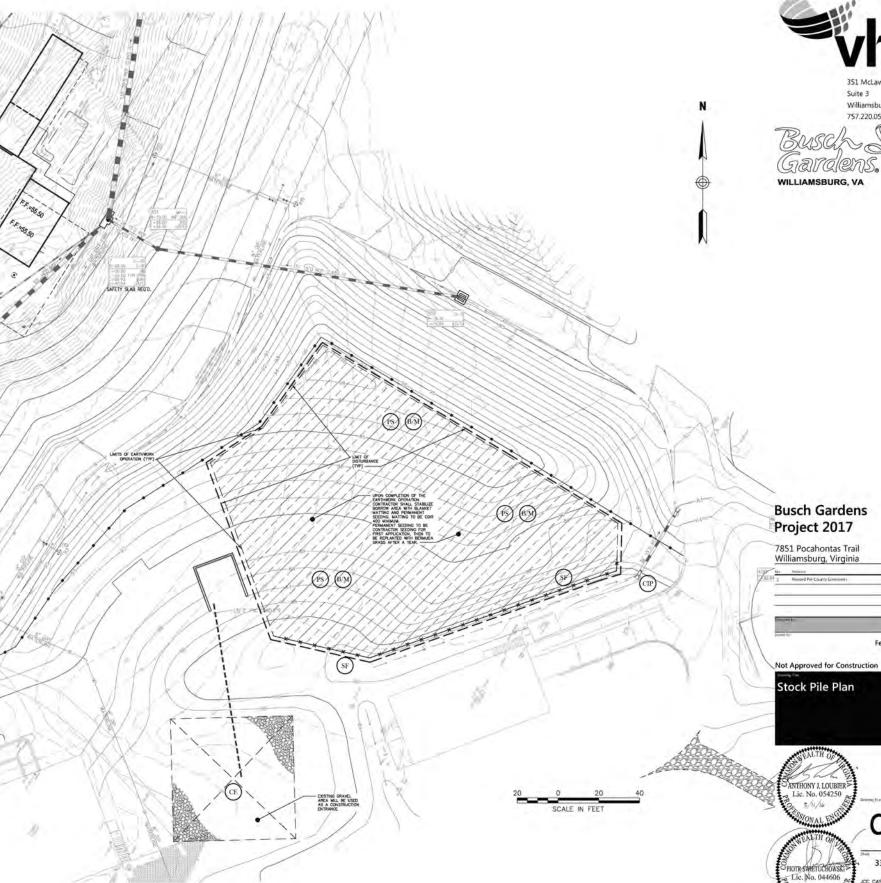
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Drainage Confiration at Vehicle Crossing

AND JOHN'S PORMAN ACIDIT (LISS THAN BO') MALES OR RECITRING MACLES (GRADET PARM 160°) CHANNET OF ACCOUNTS TO A LIGHTER AND ALIGHDER PARM 160°) CHANNET OF ACCOUNTS THAN 120° FROM PARM CHANNET OF A COUNTY OF A LIGHT PARM 160° FRANCE (THE THAN 160° FRANCE OF THE SHIPPACE STORMED ENGLISHED OF THE SHIPPACE STORMED ENGLISHED AND THE SHIPPACE STORMED AND THE SH

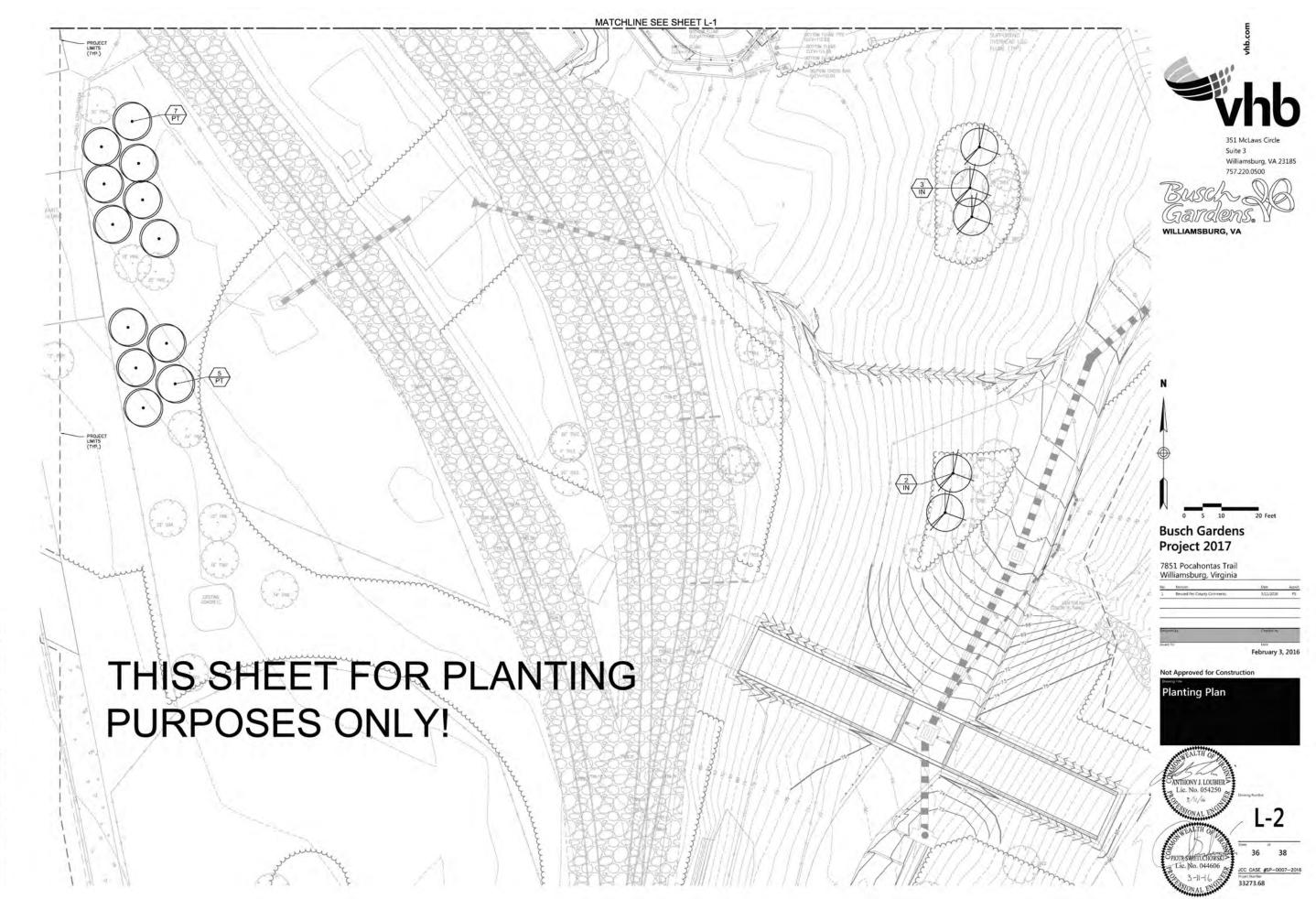
# GENERAL NOTE:



Suite 3 Williamsburg, VA 23185 757.220.0500

February 3, 2016





Saved Manday, March 07, 2016 4:05:37 PM BGREENE Plotted Friday, March 11, 2016 4:49:54 PM Greens

- NO PLANT MATERIALS SHALL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE MANEDIATE AREA.
- FINAL QUANTITY FOR EACH PLANT TYPE SHALL BE AS GRAPHICALLY SHOWN ON THE PLANT THIS NUMBER SHALL TAKE PRECEDENCE IN COSES OF ANY DISCREPANCY DISTRIBEN QUANTITIES SHOT HEE PLANT LIST AND ON THE PLANT HEE CONTRACTOR SHALL REPORT TAYY DISCREPANCES BETWEEN THE NUMBER OF PLANTS SHOWN ON THE PLANT LIST AND PLANT LABELS PRIOR TO BIDDING.
- ALL DISTURBED AREAS NOT OTHERWISE NOTED ON CONTRACT DOCUMENTS TO BE SOD SHALL BE SEEDED IN COMPLIANCE WITH VIRIGINIA EROSION AND SEDIMENT CONTROL HANDBOOK,

### TREE PROTECTION

- EXISTING TREES TO REMAIN SHALL BE PROTECTED WITH TREE PROTECTION FENCE. ERECT FENCE AS SHOWN ON PLANS PRIOR TO BRINGING EQUIPMENT OR MATERIALS ON SITE OR STARTING
- DAMAGE TO EXISTING TREES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY A CERTIFIED ARBORIST AT THE CONTRACTOR'S EXPENSE,

### TOPSOIL NOTES

1) SOIL TESTING

(1.1) THE CONTRACTOR IS RESPONSIBLE FOR SOILS TESTING AND ANALYSIS FOR SUITABILITY FOR PLANTING AND LANDSCAPE TREATMENTS REQUIRED IN THIS CONTRACT. EASTING TOPSOL SHALL BE SAMPLES SHALL BE TAKEN TO PREPERSENT THE FLALL HANGE OF SITE CONTINONS. SOIL SAMPLES SHALL BE TAKEN TO A PREPERSENT THE FLALL HANGE OF SITE CONTINONS. SOIL SAMPLES SHALL BE TAKEN TO A DEPTH OF AT LEAST OF BELOW THE LARGEST ROOT BALLS SPECIFIED ON THE PROJECT WHERE MADD PAR EXISTS, DEEPERS SAMPLING MAY BE REQUIRED.

[12] SOIL ANALYSIS SHALL BE BY AN INDEPENDENT CERTIFIED LABORATORY AND SHALL INCLUDE SOIL TEXTURE, COMPOSITION, ORGANIC MATTER CONTENT, M. SALINITY, AND FERTILITY (AVAILABLE TEXTURE, COMPOSITION) OR SOIL AMOUNT OF SOIL AND SOIR OF SOIL AND SHALL SOIL SEED SHALL SHALL SO SHALL SHALL SOIL SHALL SHALL

(2) TOPSOIL

- (2.2) TOPSOIL REQUIREMENTS MAY BE MET IN ANY OF THE FOLLOWING WAYS:

  (A) ON-SITE TOPSOIL MEETING SPECIFICATIONS MAY BE STRIPPED AND STOCKPILED ON SITE,
- (B) ON-SITE TOPSOIL NOT MEETING SPECIFICATIONS MAY BE STRIPPED, STOCKPILED AND AMENDED ON SITE, TO MEET SPECIFICATIONS.
- IC) OFF-SITE TOPSOIL MEETING SPECIFICATIONS AND FROM AN APPROVED SOURCE MAY BE PROVIDED

(2.3) TOPSOIL STOCKPILED FOR LATER USE SHALL BE STORED AT THE LOCATION SHOWN ON THE PLANS AND AT LOCATIONS APPROVED BY THE OWNER, UNLESS THE WORKING AREA IS SUCH THAT THE PRESESSED OF THE MATERIA, WOULD INTERFERE WITH ORDERLY PROSCULTION OF THE WORK, STOCKFILE AREAS OUTSIDE OF THE PROJECT LIMITS SHALL BE LOCATED BY THE CONTRACTOR AT HIS EXPENSE.

(2.4) STRIPPING TOPSOE, SHALL BE CONFINED TO THE AREA OVER WHICH THE EXCAVATION IS TO BE ACTIVELY PROSECUTED WITHIN 15 DAYS FOLLOWING THE STRIPPING OPERATION. EXCAVATION AND EMBANAMENT CONSTRUCTION SHALL BE CONFINED TO THE MINIMUM AREA NECESSARY TO ACCOMMODATE THE CONTINGCTOR'S EQUIPMENT AND WORK FORCE ENGAGED IN THE EARTH MOVING

- (2.5) TOPSOL, ETHER ON-SITE OR OFF-SITE, SHALL BE THE ORIGINAL TOP LAYER OF A SOIL PROFILE FORMED UNDER NATURAL CONDITIONS, TECHNOLALLY DEFINED AS THE AY HORIZON BY THE FORMED AS THE AY HORIZON BY THE ADMINISTRATION OF THE PROFILE OF THE THE PROFILE OF THE THE PROFILE OF THE THE PROFILE OF THE THE PROFILE OF THE PROFILE
- A) "A" HORIZON: "A" HORIZONS SHALL BE MINERAL HORIZONS CONSISTING OF:
   HORIZONS OR ORGANIC MATTER ACCUMULATION FORMED OR FORMING AT OR ADJACENT TO
- HORIZONS OR ORGANIC MATTER ACCUMULAL IDAT POMEDLA OF FORMATION AND ADMINISTRATION OF GUARTZ OR OTHER RESISTANT MINERALS OF SAND OR BILT SIZE; OR HORIZONS DOMINATED BY 1 OR 2 ABOVE BUT TRANSITIONAL TO AN UNDERLYING B OR C,
- (B) HORIZON SUBDIVISIONS: "A1" HORIZONS SHALL BE MINERAL HORIZONS, FORMED OR FORMING AT OR ADJACENT TO THE HAMDIFIED ORGANIC MATTER INTRIMATELY ASSOCIATED WITH THE MINERAL PRESENCE OF ORGANIC MATTER. THE ORGANIC MATTERIAL IS ASSUMED TO BE DEFINED FROM PLANT AND ANIMAL REMAINS DEPOSITED ON THE SUBFACE OF THE SOIL OR DEPOSITED WITHIN THE HORIZON WITHOUT APPRECADEL ET BANKSLOCKTON.
- (C) AZ HORIZONS SHALL BE MINERAL HORIZONS IN WHICH THE FEATURE EMPHASIZED IS LOSS OF CLAY IDON OR ALLIMINIAL WITH BESILITANT SIZES.
- A\* HORIZON TOPSOIL CONTENT: "A\* HORIZON TOPSOIL SHALL BE IN ACCORDANCE WITH THE FOLLOWING MATERIALS BY PERCENTAGE OF VOLUME:

(2.6) TOPSOIL SHALL HAVE A PH IN THE RANGE OF 5.8 TO 7.0 PRIOR TO MIXING WITH AMENDMENTS.

## SEEDING NOTES

THIS SECTION INCLUDES, BUT IS NOT LIMITED TO: TILLAGE, pH BALANCING, FERTILIZING, WATERING, SEEDING, MAINTENANCE MOWING, AND MULCHING OF ALL DISTURBED AREAS WITHIN THE CONTRACT LIMIT LINES NOT OCCUPIED BY STRUCTURES, PAYEMENT, OR PLAINING BEDS.

(1,1) QUALITY ASSURANCE: SEEDING WORK SHALL BE PERFORMED BY A SINGLE FIRM SPECIALIZING AND EXPERIENCED IN LANDSCAPE WORK.

(1.2) SHIP MATERIALS WITH CERTIFICATES OF INSPECTION REQUIRED BY GOVERNING AUTHORITIES, COMPLY WITH REGULATIONS APPLICABLE TO LANDSCAPE MATERIALS.

(1.3) SEED TO BE IN COMPLIANCE WITH VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.

(2.1) SEED VENDOR'S CERTIFIED BLUE TAG AND INVOICE SHOWING QUANTITY FOR EACH GRASS SEED MIXTURE REQUIRED, STATING BOTANICAL AND COMMON PARIE, PERCENTAGE BY WEIGHT, AND PERCENTAGES OF PURITY, GERMINATION, AND WEED SEED FOR EACH GRASS SEED SPECIES,

(2.3) SOIL AMENDMENTS AND MULCH: PROVIDE MANUFACTURER'S DATA

(3) JOB CONDITIONS

IN THE PROPERTY BEGINNING THE WORK OF THIS SECTION, VERHY THAT THE SITE WORK CONTRACTOR HA COMPLETED THE PRISSH GRADING AT THIS POINT, MIMMAN AT OF TOPSOL SMALL BE IN PLACE AND ROC GRADE LEVELS SHALL BE. IT THE PRISSH GRADE LEVEL, IN ALL LANGSCAPE, AREAS, INCLUDING AREAS IT BE ESTABLISHED IN TURF.

(3.2) THE LANDSCAPE CONTRACTOR SHALL CAREFULLY CORRELATE HIS WORK WITH THAT OF OTHER SITE DEVELOPERS. THE LANDSCAPE CONTRACTOR IS REQUIRED TO INSTALL AND MAINTAIN HIS FRISHED WORD AT HIS EXPORENCE.

(3.3) PRIOR TO TOPSOL PLACEMENT ALL AREAS TO RECEIVE TOPSOL SHALL BE CLEARED OF ALL DEBRIS. ANY DEBRIS SHALL BE REMOVED FROM THE SITE. TO CREATE A TRANSITION ZONE BETWEEN LUBDERS SOIL AND NEW SOIL TOPSOL SHALL BE PLACED IN 2-3 INCH LAYERS. THE FIRST LAYER SHALL BE PLACED AND THOROUGHY TILLED IN PRIOR TO PLACEMENT OF SECOND LAYERS. (3.4) THE LANDSCAPE CONTRACTOR SHALL PLACE A 4-6 INCH COMPACTED LAYER OF TOPSOIL OVER ALI AREAS TO BE ESTABLISHED IN TURF. THE TOPSOIL LAYER SHALL BRING ALL TURF AREAS AND SHRUB BI

SHALL ASSUME RESPONSIBILITY OF DETERMINING EXISTENCE OR NON-EXISTENCE OF ALL UTILITIES. MAINTAIN GRADE STAKES SET BY OTHERS UNTIL REMOVAL IS MUTUALLY AGREED UPON BY PARTIES

(3.7) DELIVERY, STORAGE, AND HANDLING: FERTILIZER, SOIL AMENDMENTS, AND SEED SHALL BE DELIVERED TO THE SITE IN THE ORKIONAL, UNOPERIED CONTINUERS BEARING THE MANUFACTURES (DIARANTEED ANALYSIS, NAME, TRADEMARK, AND STATEMENT OF CONFORMANCE TO STATE AND LIAVS, BULEU OF CONTAINERS, FERTILIZER AND SOIL AMENDMENTS MAY BE FURNISHED IN BILLY MANUFACTURES CERTIFICATE BOLOCITATION THE ADOVEN INFORMATION ACCOMPANYING BOAD DELIVERY, SEED, FERTILIZER AND SOIL AMENDMENTS SHALL BE KEPT IN DRY STORAGE AN EXPONENT OF THE PROPERTY OF THE

(4) SOIL AMENDMENTS

LIME: TO \$H BALANCE SOIL, NATURAL DOLOMITIC LIMESTONE CONTAINING NOT LESS THAN 95% OF AL CARBONATES WITH A MINIMUM OF 30% MAGNESIUM CARBONATES AND 65% CALCIUM CARBONATE IN

(4.2) ALUMINUM SULFATE: TO pH BALANCE SOIL, COMMERCIAL GRADE IN DRY POWDER FORM

(4.3) SUPER PHOSPHATE: SOLUBLE MIXTURE OF TREATED MINERALS: 20% PHOSPHORIC ACID

(4.4) STARTER FERTILIZER: GRANULAR OR PELLETIZED FERTILIZER CONSISTING OF 30% SLOW-RELEASE NITROGEN, PHOSPHORUS, AND POTASSIUM IN THE FOLLOWING COMPOSITION:

4.4.1) COMPOSITION: 14% NITROGEN, 28% PHOSPHOROUS, AND 14% POTASSIUM BY WEIGHT, OR AS RECOMMENDED BY SOIL TESTING AGENCY.

(4.6) SEED: STATE-CERTIFIED SEED OF THE LATEST SEASON'S CROP COMMON TO THE SITE LOCATION, PROVIDE FRESH, CLEAN, NEW CROP SEED COMPLYING WITH ESTABLISHED TO DERRACES FOR CERNIMATION AND PURITY HA ACCORDANCE WITH THE U.S. DEPARTMENT OF AGRICULTURE RULES AND REGULATIONS UNDER THE LATEST EDITION OF THE FEDERAL SEED ACT. SEED SHALL BE MIXED BY THE DEBLARR AND SHALL BE DELIVEDED TO THE SITE IN SEALED CONTAINERS WHICH SHALL BEART THE DEAL GUARANTEED ANALYSIS. SEED THAT HAS BECOME WET, MOLDY, OR OTHERWISE DAMAGED WILL NOT BE ACCEPTABLE.

(5) SEED PREPARATION

SEEDING SHALL NOT BE DONE WHEN THE GROUND IS FROZEN, SNOW COVERED, SATURATED, OTHER CONDITION WHICH WOULD MAKE ESTABLISHMENT AND SURVIVAL OF LAWNS UNLIKELY.

(5.2) AT THE TIME OF BEGINNING SEED BED PREPARATION, TOPSOIL SHALL BE IN A LOOSE, FRIMBLE CONDITION, FREE FROM STONES LARGER THAN ONE INCH, STICKS, ROOTS AND OTHER EXTRANSIOUS MATTER, IF TOPSOIL HAS BECOME CRUSTY, HARDENED OR ERODED SINCE BEING SPREAD, IT SHALL BE A PART OF THIS WORK TO RESTORE THE SOIL TO THE LOOSE CONDITION DESCRIBED ABOVE.

6.3) SPREAD FERTILIZER AND pH BALANCING AGENTS AT RATES RECOMMENDED BY THE SOIL TEST REPORT TO ACHIEVE A pH OF 5.5 TO 6.8. BLEND ADDITIVES THOROUGHLY INTO UPPER 4" OF TOPSOIL. REMOVE ANY FORCES OR OTHER DEBRIS WHICH MAY SUBFACE. THIL AREAS UNTIL SOIL IS LOOSE AND FRIABLE, AND ALL SOIL AMENIMENTS ARE UNIFORALY DISTRIBUTED.

(5.4) WORK ALL AREAS TO A SMOOTH EVEN SURFACE FREE FROM IRREGULARITIES, RIDGES, OR DEPRESSIONS, PREPARED AREAS SHALL MEET REQUIRED FINISH GRADE ELEVATIONS AND SHALL DRAIN ADEQUATELY, REPAIR ALL WASHED AND ERODED PORTIONS. (5.5) MOISTEN PREPARED AREAS IF SOIL IS DRY, WATER THOROUGHLY, THEN ALLOW SURFACE MOISTURE TO EVAPORATE. DO NOT CREATE MUDDY SOIL CONDITIONS.

OW SEED USING A SPREADER OR SEEDING MACHINE. DO NOT SEED WHEN WIND VELOCITY EXCEEDS IS PER HOUR. DISTRIBUTE SEED EVENLY OVER ENTIRE AREA BY SOWING EQUAL QUANTITY IN 2 TIONS AT RIGHT ANGLES TO EACH OTHER.

(5.7) RAKE SEED LIGHTLY INTO TOP 1/4" OF SOIL, FIRM ENTIRE AREA WITH A ROLLER NOT EXCEEDING 90 LBS, PER FOOT OF ROLLER WIDTH, AND WATER WITH A FINE SPRAY.

(5.8) UNLESS INDICATED OTHERWISE ON THE DRAWINGS, PROTECT NEWLY SEEDED AREAS BY SPREADING MULCH TO A UNIFORM AND CONTINUOUS DEPTH OF 1-1/2\* LOOSE MEASUREMENT (70-90 LBS/1000 SF.)

(5.8.1) STRAW MULCH: STRAW SHALL BE STALKS FROM OATS, WHEAT, RYE, BAPLEY OR PICE THAT ARE FREE FROM NOXIOUS WEEDS, CHEMICALS, MOLD OR OTHER OBJECTIONABLE MATERIALS WITH A KONASPHALT BOMULCH TACKER. FIXTHW SHALL BE NO AN AIR-ORY CONDITION SUITABLE FOR PLACING. STRAW SUPPLIED FOR MECHANICAL APPLICATION SHALL BE CHOPPED.

SIST OF FUTERRA F4 NETLESS BY PROFILE PRODUCTS LLC (800-726-6371). INSTALL PER JFACTURER'S RECOMMENDATIONS USING MANUFACTURER'S BIODEGRADABLE STAPLES.

(6.2) NONASPHALTIC TACKIFIER: COLLOIDAL TACKIFIER RECOMMENDED BY FIRBER-MULCH MANUFACTOR SLURRY APPLICATION; NONTOXIC AND FREE OF PLANT-GROWTH OR GERMINATION INHIBITORS.

(6.3) HYDROSEDING: MIX SPECIFIED SEED, STARTER FERTILIZER, AND FIBER MULCH IN WATER, USING EQUIPMENT SPECIFICALLY DESIGNED FOR HYDROSED APPLICATION, CONTINUE MIXING UNTIL UNIFOR BLENDED INTO HOMOGENEOUS SURRY SUITABLE FOR HYDRALUE APPLICATION.

(8.3.1) APPLY SUURRY UNIFORMLY TO ALL AREAS TO BE SEEDED IN A TWO-STEP PROCESS, APPLY FIRST SUURRY COAT AT A RATE SO THAT MULCH COMPONENT IS DEPOSITED AT NOT LESS THAN 18-60 LBAIGET WEIGHT, AND SEED COMPONENT IS DEPOSITED AT NOT LESS THAN THE SPECIFIED SEED SOWING RATE. APPLY SUURRY COVER COAT OF FIBER MULCH AT THE RATE RECOMMENDED BY THE MANUFACTURER FOR THE STEEPERST HARA OF SLOPE.

(6.4) THE LANDSCAPE CONTRACTOR SHALL CAREFULLY CORRELATE HIS WORK WITH THAT OF OTHER SITE DEVELOPERS. THE LANDSCAPE CONTRACTOR IS REQUIRED TO INSTALL AND MAINTAIN HIS FINISHED WORK AT HIS EXPENSE

(7.1) IT IS THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WATER APPLICATION RATES.

(7.2) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE DURING THE ESTABLISHMENT PERIOD AND UNIT, FINAL ACCEPTANCE, MAINTENANCE SHALL BEGIN BAMEDIATELY AFTER SEEDING AND SHALL INCLUDE WATERBRY, FERTLEUGH, REBUCHJO, OF STRAW BULCO, WEDE PERIODISTAN, MOVING, TRIMMING, CLIPPING REMOVAL, AND THE RECONSTRUCTION OF ALL AREAS DAMAGED BY EROSION OR OTHER OCCURRENCE.

(7.3) STANDS IN LAWN AREAS SHALL BE MOWED WHENEVER THE AVERAGE HEIGHT REACHES1-1/2 INCH.

(7.4) WASTE MATERIAL SHALL BE REMOVED FROM THE SITE DAILY.

(7.5) WARRANTY: THE ESTABLISHMENT PERIOD FOR LAWN AREAS SHALL BE FROM THE TIME OF INSTALLATION UNTIL THE THIRD CUTTING OF AN ESTABLISHED LAWN. AN ESTABLISHED STAND SHALL BE UNIFORM IN COVERAGE AND OF THE SPECIFIED MUTURE. NO INDIVIDUAL LAWN AREA SHALL HAVE BASE SPOTS IN EXCESS OF SINCHES IN DUMETER AND BARE SPOTS SHALL COMPRISE NO MORE THAN TWO PERCENT OF THE TOTAL LAWN AREA. ALL REPLACEMENTS SHALL BE SUBJECT TO THE WARRANTY REQUIREMENTS AS THE OTRIGINAL STOCK, ANY DAMAGE CONE DURING REPLACEMENT OPERATIONS SHALL BETT THE RESPONSIBILITY OF THE LAMNSCAPE CONTRACTOR.

(8.1) KEEP PAVEMENTS AND WORK AREA IN A CLEAN AND ORDERLY CONDITION

(8.2) PROTECT SEEDED AREAS AND MATERIALS FROM DAMAGE DUE TO OPERATIONS BY OTHER CONTRACTORS, TRADES, AND TRESPASSERS, MAINTAIN PROTECTION DURING INSTALLATION AND UNTIL FINAL ACCEPTANCE. TREAT REPAIR OR REPLACE DAMAGED SEEDED AREAS AS DRECTED.

(9.1) THE COMPLETION OF THE CONTRACT WILL BE ACCEPTED AND NOTICE OF COMPLETION RECORDED ONLY WHEN THE ENTIRE CONTRACT IS COMPLETED TO THE SATISFACTION OF THE OWNERS

(9.2) WITHIN TEN (10) DAYS OF THE GENERAL CONTRACTOR'S NOTIFICATION THAT THE INSTALLATION IS COMPLETE. THE OWNER'S REPRESENTATIVE WILL INSPECT THE INSTALLATION AND, IF FINAL ACCEPTAR IS NOT GIVEN, WILL PREPARE A "PUNCH LIST."

SODDING NOTES

(1) APPLICABLE STANDARDS

(2.1) CERTIFICATION OF SOD: FROM SOD GROWER STATING THE BOTANICAL AND COMMON MAKE

(3.1) SOD: HARVEST, DELIVER, STORE, AND HANDLE SOD ACCORDING TO REQUIREMENTS IN THIS "SPECIFICATIONS FOR TURFGRASS SOD MATERIALS" AND "SPECIFICATIONS FOR TURFGRASS SOT TRANSFLANTING AND INSTALLATION" IN 15" GUIDELINE SPECIFICATIONS TO HAVE GRAVE SODDINGS" DELIVER SOD IN TIME FOR PLANTING WITHIN 24 HOURS OF HARVESTING, "PROTECTS SOD FROM BEBRANGE AND DRYRING.

(3.2) PLANTING RESTRICTIONS: PLANT DURING ONE OF THE FOLLOWING PERIODS. COORDINATE PLANTING PERIODS WITH INITIAL MAINTENANCE PERIODS TO PROVIDE REGULARD MAINTENANCE FROM DATE OF PLANTING COMPLETION.

(A) FESCUE SOD: (1) FIRST FERTILIZATION: AT TIME OF SEEDING.

(2) SECOND FERTILIZATION: 30 DAYS AFTER SEEDING BETWEEN JUNE 15 - AUGUST 15.

(3) THIRD FERTILIZATION: 30 DAYS AFTER SEEDING BETWEEN JULY 15 - SEPTEMBER 1 (4) FOURTH FERTILIZATION: OCTOBER 1-15

(4.1) TURFGRASS SOD: CERTIFIED, INCLUDING LIMITATIONS ON THATCH, WEEDS, DISE, NEMATODES, AND INSECTS, COMPLYING WITH THIS "SPECIFICATIONS FOR TURFGRASS MATERIALS" IN ITS "GUIDELINE SPECIFICATIONS TO ILTER-GRASS SODION," FURNISH IN SOD OF UNFORM DENSITY, COLOR, AND TEXTURE, STRONGLY ROOTED, AND CAPABI VIOQROUG GROWNH AND DEVELOPMENT WHER PLANTED.

(4.2) SOD SHALL BE FESCUE SOD IN COMPLIANCE WITH VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK

1) TURF FERTILIZER: GRANULAR OR PELLETIZED FERTILIZER CONSISTING OF 30 PERCENT OW-RELEASE NITROGEN, PHOSPHORUS, AND POTASSIUM IN THE FOLLOWING JMPOSITION.

(A) NITROGEN, PHOSPHORUS, AND POTASSIUM IN AMOUNTS RECOMMENDED IN SOIL REPORTS FROM A UNIVERSITY OR INDEPENDENT AGRICULTURAL SOIL-TESTING LABORATORY.

(5.2) POTASSIUM FERTILIZER: GRANULAR OR PELLETIZED FERTILIZER CONSISTING OF POTASSIUM IN THE FOLLOWING COMPOSITION:

(A) COMPOSITION: 0 PERCENT NITROGEN, 0 PERCENT PHOSPHOROUS, AND 50 PERCENT POTASSIUM, BY WEIGHT.

) PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES, IES, SHRUBS, AND PLANTINGS FROM DAMAGE CAUSED BY PLANTING OPERATIONS.

(A) PROTECT GRADE STAKES SET BY OTHERS UNTIL DIRECTED TO REMOVE THEM

ROVIDE EROSION-CONTROL MEASURES TO PREVENT EROSION OR DISPLACEMENT OF AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT RTIES AND WALKWAYS.

(8.3) REMOVE SURFACE VEGETATION, INCLUDING TEMPORARY SEED, PRIOR TO INSTALLING

(7.1) LAY SOD WITHIN 24 HOURS OF HARVESTING. DO NOT LAY SOD IF DORMANT OR IF GROUND IS FROZEN OR MUDDY,

(2) LN SOU TO FORM A SOLID MASS WITH TIGHTLY FIFTED JOINS, BUTT EXICS AND DISS. OF SOLID AND TIMETED HO OFFILEMENT SOLID MANGER BOD STRIPS OF PARTS OF POSITION TO STRIPE HOUSE. AVOID DAMAGE TO SURGRANDE OR SOD DURING MANGE TO SURGRANDE OR SOD DURING MATALLATION. TAMP AND ROLL LIGHTLY TO ENSURE CONTACT WITH SUGGRADE, EMIMATE AIR POCKETS, AND FORM A SMOOTH SURFACE. WORK SIFTED SOLI OR FINE EAMO INTO MANDER CRACKS BETWEEN PECES OF SOIL SERVICE EXCESS TO ANDIS SMOTHERING SO

(7.3) SATURATE SOD WITH FINE WATER SPRAY WITHIN TWO HOURS OF PLANTING. DURING FIRST WEEK AFTER PLANTING, WATER DAILY OR MORE FREQUENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A MINIMUM DEPTH OF 1-1/2 INCHES BELOW SOIL.

(8.1) MAINTAIN AND ESTABLISH TURF BY WATERING, FERTILIZING, WEEDING, MOWING TRIMMING, REPLANTING, AND OTHER OPERATIONS, REPLACE STRIPS THAT ARE DAMAGED DISCOLORED OR DEAD. PROVIDE MATERIALS AND INSTALLATION THE SAME AS THOSE USED IN THE ORIGINAL INSTALLATION.

(8.2) WATERING: PROVIDE AND MAINTAIN TEMPORARY PIPING, HOSES, AND LAWN-WATERING EQUIPMENT TO CONVEY WATER FROM SOURCES AND TO KEEP LAWN UNIFORMLY MOIST TO A DEPTH OF 6 INCHES.

- (B) SCHEDULE WATERING IN THE EARLY MORNINGS
- (C) WATER LAVIN WITH A FINE SPRAY DALY UNTEL ALL STRIPS HAVE ROOTED INTO THE NATIVE SOLL AFTERWARDS WATER A MINIMUM OF 3 TIMES PER WEEK DELIVERING A TOTAL OF 1 INCH OF WATER PER WIEK UNLESS RAINFALL PREOFITATION IS ADEQUATE UNTEL ACCEPTED BY THE OWNER OR THE OWNER'S REPRESENTATIVE.

(8.3) MOW LAWN AS SOON AS TOP GROWTH AVERAGES THE SPECIFIED MOWING HEIGHT BELOW, REMOVE NO MORE THAN 1/3 OF GRASS-LEAF GROWTH IN INITIAL OR SUBSEQUENT MOWINGS. REPEAT MOWING TO MAINTAIN RECOMMENDED HEIGHT. <u>DO NOT MOW, WHEN GRASS IS WET.</u>

(8.4) POST-SODDING FERTILIZATION: EVENLY APPLY FERTILIZERS BY BROADCASTING WITH A CALBRATED FERTILIZER BROADCAST SPREADER FOLLOWING THE SCHEDULE IN SUBSECTION STOTO 8 AND AS RECOMMENDED BY THE SOIL TESTING LABORATORY, APPLY ONLY WHEN GRASS IS DRY.

(8.5) SATISFACTORY SOCIED LAWN: AT END OF MAINTENANCE PERIOD, A HEALTHY, WELL-ROOTED, EVEN-COLORED, VABLE LAWN HAS BEEN ESTABLISHED, FREE OF WEEDS, OPEN JOINTS, BAREA REARS, AND SURPACE IRREGULARITIES.

(A) USE SPECIFIED MATERIALS TO REESTABLISH LAWNS THAT DO NOT COMPLY WITH REQUIREMENTS AND CONTINUE UNTIL FINAL ACCEPTANCE IS GIVEN BY THE OWNER OR THE OWNER'S REPRESENTATIVE.

(9.1) A WARRANTY PERIOD OF NO LESS THAN 90 DAYS IS REQUIRED AFTER A FINAL ACCEPTANCE NOTICE HAS BEEN ISSUED. IF THE PROJECT WAS SODDED IN THE FALL AND NOT GREEN FULL 60 DAYS OF MAINTENANCE, OR IF THE PROJECT SODOING IS NOT CONSIDERED ACCEPTARE AT THE TIME, THE CONTRACTOR WILL CONTINUE MAINTENANCE UNIT, THE FOLLOWING SPRING UNIT, ACCEPTARE THEY BE STRAELISHED.

PLANTING NOTES

THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, ETC. NECESSARY TO COM ALL PLANTING AS SHOWN ON THIS DRAWING, AS SPECIFIED HEREIN OR IN SUPPLEMEI SPECIFICATIONS, AND/OR AS REQUIRED BY JOB CONDITIONS, THE WORK IN GENERAL INCLIDES, BUT IS NOT LIMITED TO THE FOLLOWING:

- 22 TOPSOIL:
  32 TOPSOIL:
  33 PLANTING AREA PREPARATION;
  49 PLANTING PIT EXCAVATION AND SOIL AMENOMENT;
  93 PLANTI MATERIAL, AND MULCH;
  71 STAMON; (WHEN RECUIRED)
  90 CHEMICAL, POPULCATION; (WHEN RECUIRED)
  91 MANNITHMANCE AND CUMPANTEE:
  91 MANNITHMANCE AND CUMPANTEE
  91 MANNITHMANTEE
  91 MANNITHMANCE
  91 MANNITHMANCE
  91 MANNITHMANCE
  91 MANNITH

THE PLANTING CONTRACTOR IS RESPONSIBLE FOR COORDINATING WORK WITH THE OTHER CONTRACTORS. THIS PLAN DOES NOT QUARANTEE THE ENSITEMED OR NON-ENSITEMED OF CONTRACTOR SHAUL ASSIME THE RESPONSIBIENT OF VIETING THE LOCATIONS OF ALL UTLANTING. THE RESPONSIBIENT OF VIETING THE LOCATIONS OF ALL UTLANTING THE OFFICE OF CONTRACTORS SHAUL ASSIME THE RESPONSIBIENT OF VIETING THE LOCATIONS OF ROSE THROUGH THE AREAS OF COORSTRUCTION.

(1) QUALITY ASSURANCE

(1.1) QUALITY ASSURANCE: PLANTING SHALL BE PERFORMED BY A SINGLE FIRM SPECIALIZING AND EXPERIENCED IN LANDSCAPE WORK. (2.1) TOPSOIL ANALYSIS: PROVIDE FOR THE SERVICES OF AN INDEPENDENT SOIL TESTING LABORATORY TO PERFORM ANALYSIS OF TOPSOIL TO BE USED, AND A DETERMINATION OF NUTRITIONAL REQUIREMENTS OF SOIL FOR ESTABLISHMENT OF PLANT MATERIAL BY LAB FOR SOIL AMENDMENTS.

(2.2) SOIL AMENDMENTS: PROVIDE MANUFACTURERS DATA ON AMENDMENTS AS RECOMMENDED IN TOPSOIL ANALYSIS AND AS NOTED BELOW. (3) PLANTING AREA PREPARATION

IS 1) PLANTING AREAS, RECAUSE OF SOIL COMPACTION DURING CONSTRUCTION AL

(S.) PONNING AREAS SHALL BE LOOSENED OF SOLL DOWNER THAN BOTHING AS SPECIFIED BELOW. AREAS UIT THE DRIP LINE OF TREES OR SHRUBS TO REMAIN IN PLACE SHALL NOT BE ROTO-TILLED. / PLANTING AREA IS ANY AREA IN WHICH NEW PLANTING OCCURS. (3.2) PRIOR TO EXCAVATION OF INDIVIDUAL TREE AND SHRUB PITS, A DIAMETER EQUAL TO TEN TIMES THE DIAMETER OF THE ROOT BALL SHALL BE ROTO-TILLED TO A DEPTH 6", UNDER NO CIRCUMSTANCES SHALL THE ROTO-TILLED DEPTH BE GREATER THAN THE DEPTH OF THE ROOT BALL.

(3.3) IN CONTINUOUS SHRUB AND GROUND COVER BEDS, THE ROTO-TILLED PERIMETE! SHOULD EXTEND TO A DISTANCE OF 5 TIMES THE DIAMETER OF A SINGLE ROOTBALL. PERIMETER PLANTS, DEPTH OF TILLAGE FOR SHRUBS SHALL BE AS SPECIFIED ABOVE

(4) PLANTING PIT EXCAVATION AND SOIL AMENDMENT

(4.1) TREE AND SHRUB PITS SHALL BE 3 TIMES THE WIDTH OF THE ROOTBALL, AND SHALL BE DUG SO THAT THE BOTTOM OF THE ROOT BALL WILL REST ON UNDISTURBED SOIL, AND THE TOP OF THE ROOT BALL WILL BE 27 ABOVE FINISH GRADE.

1.2) GROUNDCOVER, ANNUAL AND PERENNIAL BEDS SHALL BE TILLED TO A DEPTH OF 12°, OR F SOL AMENDMENTS ARE REQUIRED, EXCAVATED TO A DEPTH OF 12°, UNLESS OTHERWISE OUTED ON THE PLANS, PLANTS SHALL BE EVENLY SPACED WITHIN THE TILLED PLANTING GREA AND SET TO MAINTAIN THE ORIGINAL GROWING DEPTH WHILE ALLOWING FOR A 2° TOP

(4.3) WHENEVER POSSIBLE, THE EXCAVATED SOIL SHOULD BE USED OR AMENDED TO BE USED AS BACKFILL MATERIAL IN ORDER TO ELIMINATE OR IMMINIZE THE OCCURRENCE OF HYDROLOGIC DISCONTINUTIES, ANDOR SOIL MITERFACE PROBLEMS COMMON TO PLANTING BEDS CONTAINING SOILS OF DIFFERENT TEXTURE. 41 WHERE SOLS TESTING OR SUBSPOUENT ORSERVATION INDICATES THAT THE TEXTUR

(4.4) WHERE SOLDS IS STUDIO OR BUILDING OF BUILDING OF BUILDING OR BUILDING OF BUILDING OR BUILDING OR BUILDING OF BUILDING OF THE EXTINATE OF THE EXTRINA SOLD IS LINCES STATED FOR THE PROFILE OF THE FATALY SPECIAL SERIOR PARAMETER OF HEAVY DEVICES OF THE STATE OF THE STUDIO OF THE STATE OF (4.5) WHERE SOILS TESTS INDICATE THAT THE pH, SALINITY OR CHEMICAL COMPOSITION IS UNDESIRABLE FOR THE PLANT SPECIES BEIND PLANTED, THE SOIL SHALL BE AMENDED AS RECOMMENDED WHITH THE SOILS REPORT TO ACTIVE SUITABLE CHEMICAL PROPERTIES. RECOMMENDED WHITH THE SOILS REPORT TO ACTIVE SUITABLE CHEMICAL PROPERTIES. BETWEEN 6.0 AND 6.6. AND FOR EVERIGENEEN OR SEAM EVERGREEN PLANTS SWALL HAVE 6. ph WALLE BETWEEN 6.0 AND 6.0. A REPORTISH THE ADMINISTRATE OR SOIL pH TEST ET ATT. THE OH VALUE GETWEEN THAT IS SHALL HAVE 6. ph WALLE GOVERNOON OF AND 6.0. A REPORTISH THE THE OH SOIL pH TEST ET ATT. THE OH VALUE OF THE MATURAL SOIL OF THE MATURAL SOIL PH MEETER OR SOIL pH TEST HIT. THE OH VALUE OF THE MATURAL SOIL OF THE MATURAL SOIL PH MEETER OR SOIL PH TEST HIT. THE OH VALUE OF THE MATURAL SOIL DEVOKAL BUTCHES AND THE ADMINISTRATION.

(4.6) WHERE SOILS TESTING OR SUBSEQUENT EXCAVATION INDICATE THE EXISTING SOIL IS UNSUITABLE FOR USE AS BACKFILL MATERIAL, BECAUSE OF THE PRESENCE OF DEBRIS OR OTHER DELETERIOUS MATERIAL THE BACKFILL MATERIAL SHALL BE 66% TOPSOIL, AS DEFINED ABOVE, AND 33% CLEAN SAND.

(4.7) AMENDED BACKFILL SOIL REPLACES ONLY THE SOIL EXCAVATED FROM THE TREE AND SHRUB PIT (3 TIMES THE WIDTH OF THE ROOT BALL), NOT THE ENTIRE ROTO-TILLED AREA.

(4.8) FOR TREES IN POORLY DRAINED SOILS, A VERTICAL PIPE SHALL BE INSTALLED AT THE EDGE OF THE PLANT PIT EXCAVATION, EXTENDING TO A LEVEL EQUAL TO THE TOP OF THE MULCH. THE PIPE END SHALL BE THREADED AND FITTED WITH A THREADED CAP.

(5) PLANT MATERIAL AND MULCH.

IS) HEAVIT MATERIAL AND MILCH.

EST THE NUMBER OF PLANTS REQUIRED UNDER THIS CONTRACT CONFORM TO THOSE GIVEN IN L.H. BRAILY'S HORTUS THREE, 1978 EDITION, NAMES OF VARIETIES NOT INCLUDED THEREIN L.H. BRAILY'S HORTUS THREE, 1978 EDITION, NAMES OF VARIETIES HOLD THEY SHALL HAVE A HABIT OF GROWTH THAT IS NORMAL FOR THEIR SPECIES AND THEY SHALL BE SOUND, HEALTH HAVE VICKOROUS, WITH WILL DEVELOPED ROOT SYSTEMS, ALL PLANT MATERIAL BE SOUND, HEALTH HAVE VICKOROUS, WITH WILL DEVELOPED ROOT SYSTEMS, ALL PLANT MATERIAL BE SOUND, EACH THE STREET STATES OF THE STREET SHALL BE SOUND, EACH THREE STREET SHALL HE SHALL THROSE SECRET THAN THE LAND MATERIAL SHALL BE FLANT LIST. WHICH ARE MINIMUM SACEPT FLANK SEES, TREES SHALL HAVE SHALL ET RINKS EXCEPT FAN STOTE, ALL SHRIGHES SHALL BE HEALTH, VIGOROUS, AND OF GOOD COLOR, CRAY DAMAGED OR BROKEN BRANCHES OF HAUT MATERIAL MAY BE PROMED AND ANY NECESSAY PROUNDS THAT BY THE OF PLANTING, HOWEVER, UNDER NO CHICKMATTACES SHALL THE COLOR THE THE OF PLANTING, HOWEVER, UNDER NO CHICKMATTACES SHALL THE COLOR THAN THE THINK OF MOST PLANTING, HOWEVER, UNDER NO CHICKMATTACES SHALL THE COLOR THAN THE THAN THE PLANTING, HOWEVER, UNDER NO CHICKMATTACES SHALL THE COLOR THAN THAT THAN THE PLANTING SHALL FOR COLOR THAN THE SHALL FOR THE THE OF PLANTING, HOWEVER, UNDER NO CHICKMATTACES SHALL THE COLOR OF STRANDARDS CURRENTLY RECOMMENDED BY THE AMERICAN STANDARD FOR NURSERY STOCK.

IC.) ALL TAGS, STIRMAS OR ANY OTHER MATERIAL, ATTACHED TO THE PLANTS SHALL BE REMOVED. AT THE TRIBLE OF A ANTHROL LABBLE, AT EAST OTHE TIME, SHALL BE REMOVED. OF THE TABLE OF A MATERIAL DESCRIPTION OF THE THE TABLE OF THE TABL

IS 31,5 MESTITUTIONS WILL BE PERMITTED ONLY UPON SUBMISSION OF PROOF THAT ANY PLANT IS NOT DETAINABLE ALL SUBSTITUTIONS MUST BE AUTHORIZED BY THE OWNER OR EQUIVALENT OBTAINABLE SUZE OR WARRETY OF PLANT HAWNS THE SAME ESSENTIAL CHARACTERS TICS AS THE ORIGINAL VARIETY WITH AN EQUITABLE ADJUSTMENT OF CONTRACT PROST OF SAME ESSENTIAL.

(5.4) BALLED AND BURLAPPED PLANTS (B&B) SHALL BE DUG WITH FIRM, NATURAL BALLS OF EARTH OF SYSTEM NECESSARY FOR FALL RECOVERY FOR TO SENDER STEP REPOUND AND FEDRING YES THE PROCESSARY FOR FALL RECOVERY FOR THE PRAST. BALLS SHALL SE FRAILY WRAPPED WITH BURLED OF SIMILAR MATERIAL AND BOUND FLATTER OPER CHORDES AND SHALL SH

ISS.) PLANTS NOTED A CONTAINER SUE ON THE FINANT LIST MUST BE CONTAINER CORONI VIDEN SELL SENDE SIED FORD TSCHESS, LOSS CONTAINERS DES PARM MATGRAU, MUST BE ACCEPTED, ALL PLANTS INLIERD AND PLANTS WITH ROOT BALLS BROKEN DURING TRANSPORT OF PLANTING OPERATORS WILL BE RECETCE BARRE-ROOTED PLANTS ISSUE SHALL BE PLANTIED OR HEELED-IN MAMEDIATELY UPON DELIVERY, ALL PLANTS SHALL BE WATERED AS NECESSARY LUTIN FLANTED. (5.6) NEW PLANTINGS SHALL BE LOCATED WHERE SHOWN ON THE PLAN EXCEPT WHERE (5.6) NEW PLANTINGS SMALL BE LOCATED WHERE SHOWN ON THE PLANE EXCEPT WHERE COSTRUCTIONS BELOW GROUND ARE EXCOUNTERED ON WHERE CHANGES HAVE BEEN MADE IN THE PROPOSED CONSTRUCTION INCCESSARY ADJUSTMENTS SHALL BE MADE ONLY AFTER EXERCISED TO WING PLANTING ITS DUILD AND SCILL PREPARED PROFIT OF MOWING PLANTIS TO THEIR RESPECTIVE LOCATIONS TO ENSURE THAT THEY WILL NOT BE UNIVECESSARILY EXPOSED TO PRIVING OF PHYSICAL DAMAGE.

(5.7) A LIST OF PLANTS, INCLUDING SIZES, QUANTITIES AND OTHER REQUIREMENTS, IS SHON THE DRAWINGS, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE QUANTITIES SHOWN ON THE DRAWINGS. IF DISCREPANCIES OCCUR IN THE QUANTITIES SHOWN, THE PLANTING PLANS SHALL GOVERN.

(8.8) THE PLANTING CONTRACTOR WILL BE NOTIFIED BY THE GENERAL CONTRACTOR WHEN OTHER DIVISIONS OF THE WORK HAVE PROGRESSED SUFFICIENTLY TO COMMENCE WORK ON THE PLANTING OPERATION. THE SHART PLANTING OPERATIONS SHALL BE CONDUCTED UNDER FAVORMABE WEATHER CONDITIONS DURING THE INEXT SEASON OR SEASONS WHICH UNDER FAVORMABE WEATHER CONDITIONS DURING THE INEXT SEASON OR SEASONS WHICH ARE MORMAL FOR SUCH WORK SHE WORK OF THE UNDERGROUND GESTINGTONS, RELICATIONS TO A VIDE OSSTRUCTIONS, AND PROVISION OF DIPARANCE FOR PLANTING MEAS SHALL BE CORN ONLY AS APPROVED BY THE OWNER OF THE OWNER SHERESSIATION.

(5.9) ALL PLANTS SHALL BE PLANTED UPRIGHT AND FACED TO GIVE THE BEST APPEARANCE OR RELATIONSHIP TO ADJACENT STRUCTURES, ROOTS SHALL BE SPREAD IN THEIR NORMAL POSITION, ALL BROKEN OR FRANCE DROOTS SHALL BE GUT OFF CLEANLY, PLANTS WITH CIRCLING ROOTS SHALL NOT BE ACCEPTED. BURLAP TWINE AND OTHER FASTENING MITERIAL SHALL BE CUT AND PUSHED TO THE BUTTON OF THE PLANT THE PRIOR TO SHACED, LAMERHAR BEING PLACED. THE PLANT SHALL NOT BE ROCKED BACK AND FORTH TO BITHING YEAR OVER THE WINDOWS HAVE AND FORTH TO BE PRESTORIED VINICH COLD CLASS THE PLANT SHALL NOT BE ROCKED BACK AND FORTH TO BE INTERESTED VINICH COLD CLASS THE PLANT SHALL NOT THE PRIOR THE BE PERSONNED VINICH COLD CLASS THE ROOT BALL OF SHALL BE REMOVED FROM THE BOSES OF THE ROOT BALL OF PLANTS THE SHADOWS THE MOST BALL OF PRIOR WINE SHALL BE REMOVED FROM THE BOSES OF THE ROOT BALL.

(5.19) AT THE TIME OF PLANTING, AND AS MANY TIMES LATER AS SEASONAL CONDITIONS REQUIRE, EACH PLANT AND THE SOR, AROUND IT SHALL BE THOROUGHLY WATERED, CARE SHOULD BE EXERCISED WHEN WATERING TO AVOID IT SOND OF THAT SHAD BEDS. DISPLACEMENT OF MALCH MATERIAL AND EROSION OF SOL. AVOID USE OF HIGH PRESSURE MOSES, THE CONTRACTOR SHALL MAKE, AT HIS SEPONSE. WHATEVER REPROMEDIENTS MAY BE NECESSARY TO ENSURE AN ADEQUATE SUPPLY OF WATER TO MEET THE NEEDS OF THIS CONTRACT DISPLAY INSTALLATION, INSTALLATION, THE CONTRACTOR SHALL ALSO PURINNES HALL RECEISARY HOSE, EQUIPMENT AT ADMENTS AND ACCESSIONES FOR THE ADEQUATE WHETRING OF PURILED HAVE AND ADMENTS AND ACCESSIONES FOR THE ADEQUATE WHETRING OF PURILED HAVE AND ANY BE REQUIRED WHITE ACCESSIONES FOR THE ADEQUATE WHETRING OF PURILED HAVE ANY BE REQUIRED WHITE ACCESSIONES FOR THE ADEQUATE WHETRING OF PURILED HAVE ANY BE REQUIRED WHITE ACCESSIONES FOR MOMER'S OF THE OWNERS OWNERS.

(8.11) MULCH SHALL BE CLEAN, SHREDDED HARDWOOD MULCH, IN PLANTING AREAS WHERE SLOPES EXCEED 3:1 AND AT DRAINAGE DISPERSION POINTS OR A LONG NATURAL WATER WAYS WHERE CONCENTRATIONS OF SUBMITCHES WATER WATER WAYS HAVE WERE CONCENTRATIONS OF A WED DITCHES, HEAVY JUTE WEST SHOULD BE NATHLED, SHREDDED HARDWOOD SHALL HAVE BEEN COMPOSITED FOR AT LEAST TWO MONTHS PRIOR TO A PREFLICATION, PRESSAY GROUND MULCH WILL NOT BE ACCEPTED, PINELY GROUND MULCH, WHICH INHERS S DRAINAGE, ENCOUPRAGES WEED ORNOWING THE ECONOMISM OF THE CONTROL OF T

[5:12] ALL PLANTS SHALL BE MULCHED MINEDIATELY AFTER PLANTING, GROUND COVERS SHALL BE MULCHED WITH A 3" LAVER OF SHREDDED HARDWOOD, ALL OTHER PLANTING BEDS, SHRIBS AND THEE FRANTINGS SHALL BE MULCHED WITH A 3" MANURULA LEYFOR FAIL.CH. THEN SHILCH SHALL BETTERLY GOWER THE ARRA OF THE FLANTING PIT, BED, OR EARTH SERM ARQUIND SACH PLANT WITH THE EXCEPTION OF THE ARRA MINEDIATELY ADJACENT TO THE PLANT THE THURK OR TRUNKS. THE AREA MINEDIATELY ADJACENT TO THE PLANT THURK OR TRUNKS SHALL BE LEFT FREE OF ANY MULCH.

(6.13) INSPECT ROOT SYSTEM FOR POTENTIAL STEM GROUND ROOTS. DEFECTIVE ROOTS (J. ROOTS, DIVING) OR CIRCLING) SHALL BE PRINCED ANAY BACK TO LIVE INSUE BEFORE/IN-EAD OF THE ROOT DEFECT. IF 30% OR MORGE OF ROOT SYSTEM IS DEFECTIVE AS DETERMINED BY INCEPENDENT VIAL OCENTRED HOSTICULIEST OR LANDSCAPE ARCHITECT) OR IF GIROLING ROOTS ARE NOTED AFTER PLANTING, THE ENTIRE THE SHALL BE REJECTED.

(5.14) SOIL COVERING ROOT STOCK GRAFT OR ON TOP OF THE ROOTBALL SHALL BE REMOVED SO THAT THE TRUMK RARE AND THE TOP OF THE ROOT SYSTEM ARE CLEARLY VISIBLE. IF MORRET HAM 2°O SOIL WOULD NEED TO BE REMOVED TO EXPOSE TRUMK RARE, TREE SHALL BE REJECTED. SET THE BASE OF THE TRUMK RARE IT 12" HIGHER THAN FINAL GRADE. PARTICLARLY IN SUOMY DRAINING SOILS.

(6.1) THE FERTILIZER SHOULD BE A DRY SLOW RELEASE FORM OF FERTILIZER. IT SHOULD CONTAIN AT LEAST 25-69% WATER INSIGNIES INTEGENT THE FERTILIZER SELECTED SHOULD ALSO HAVE A LOW ADJUSTED SAIL TROKEN TO PREVENT REMINING. THE HEY HER RATIOS HOULD NOT EXCEED 3-12 UNLESS THE SOIL TEST REVEALS THAT ADDITIONAL LEVELS OF P AND K ARE NECESSARY.

(6.2) FOR DECIDIOUS TREES, USE OSMOCOTE (18-6-12) AT THE RATE EQUIVALENT TO ACTUAL N.1000 SQ FT OF ROOT ZONE ARRAYEAR, FOR EVERGREEN TREES USE 2 ILE N.1000 SQ FT OF ROOT ZONE ARRAYEAR OR AS RECOMMENDED BY SOIL TESTING I (6.3) MIX THE FERTILIZER INTO THE BACKFILL SOIL OF THE TREE PITS, FOR SHRUB BEDS, MIX THE FERTILIZER INTO THE AREA THAT HAS BEEN ROTO-TILLED FOR THE PLANTS.

[8.4] THE FERTILIZER RATE FOR CONTINUOUS GROUND COVER AND SHRUB BEDS SHOULD BE DERIVED BY CALCULATING THE ENTIRE ROOT ZONE AREA. THE ROOT ZONE AREA IS FOUND BY MEASURING THE AREA CONTIANING THE MULTIFUE PLANT ROOT IS. USE COMMOCITE (18.4-12); AT A RATE ECOUNTAIN TO 2 LISS OF HOROS SOF TO FROOT ZONE AREA OR AS RECOMMENCED BY SOIL TESTING LAS REPORT. THE FERTILIZER SHOULD BE EVENLY DISTRIBUTED WITHIN THE SHRUB BED SOIL.

(7.1) ANCHOR TREES, AS REQUIRED BY SITE CONDITIONS ONLY, TO MAINTAIN TRUNKS PLUMB AND UNTIL THE TREES ARE ROOTED AND SELF SUPPORTING, ALL TREES REQUIRING SUPPORT SHALL BE ANCHORED ACCORDING TO THE NOTES BELD.

(7.2) THREE ANCHORS SHALL BE PROVIDED PER TREE. INSTALL IN SUCH A MANNER AS NOT TO INJURE THE ROOT BALL OR ROOTS.

(7.3) ALL ANCHORING MATERIAL SHALL BE REMOVED AS SOON AS THE TREE HAS SUFFICIEN ROOTS TO NO LONGER REQUIRE ANCHORS. TREES THAT REMAIN UNSTABLE WITHOUT STAN AFTER ONE YEAR SHALL BE REJECTED AND REPLACED.

(7) ANCHORING

(8.1) PESTICIDES SHOULD BE USED ONLY WHEN NECESSARY TO TREAT AN OUTBREAK OF A HARMAFUL PEST OR DISEASE PROBLEM. THE OWNER OR THE OWNERS REPRESENTATIVE SHALL BE NOTIFIED 24 HOURS PRIOD TO THE APPLICATION OF ANY PESTICIDE. 8.21 ALL PESTICIDES SHALL BE PRODUCTS OF RECOGNIZED COMMERCIA (8.2) ALL PESTICIDES SAMAL BE PRODUCTS ENCOUNCED COMMERCIAL IMMURACTURES; AND SHALL CONSONER TO ALL PRODUCTS ENERGY AND SHALL CONSONER TO ALL PAPILIZABLE FEDERAL, STATE, AND LOCAL PESTICIDE LAWS. PESTICIDE LAWS. PESTICIDE LAWS. PESTICIDE LAWS. PESTICIDE CAMPALED WITH CAUBINATION ACCORDINATE DE PALABELT PRESTRICTIONS AND REQULATIONS BY A CERTIFIED APPLICATION OF ANY DIMAGE INCURRED TO THE SITE ADJACENT PRODUCTS. OR APPLICATION OF ALL BETT HE SOLD RESPONSIBILITY OF THE SOLD RES

(9) MAINTENANCE AND GUARANTEE (8.1) THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING HIS WORK UNTIL FINAL ACCEPTANCE BY THE OWNER OR THE OWNER'S REPRESENTATIVE. MAINTENANCE SHALL INCLUDE MOWING, WATERING, WEEDING, CULTIVATION, MUZCHING, REMOVAL, OF DEAD MATERIALS, RESETTING OF PLANTS TO PROPER GRADES OR UPRIGHT POSITIONS, RESTORATION OF EARTH BERING, AND OTHER NECESSARY OPERATIONS, ADEQUATE PROTECTION FOR LAWN AREAS AGAINST TRESPASSINO DURING PLANTING OPERATIONS AND AGAINST DAMAGE OF ANY KIND SHALL BE REVOIVED. NOTHING IN THESE NOTES IN INTENDED TO RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO REPAIR EXISTING LAWN AREAS DAMAGED BY WORMSHEE MORGED IN THE COMPACTION OF THE PROJECT.

BY JASPECTION OF THE WORK TO DETERMINE COMPLETION OF THE CONTRACT EXCLUSIVE OF THE POSSIBLE REPLACEMENT OF PLANTINGS, WILL BE MADE BY THE OWNER OR THE OWNERS REPRESENTATIVE AT THE CONCLUSION OF THE INSTALLATION PERIOD UPON WRITTEN HOTICE REQUESTING SUCH INSPECTION, REQUEST SHALL BE SUBMITTED BY CONTRACTOR AT LEAST THE MAYS PRIOR TO THE ANTIOPATE DO ATE FOR INSPECTION, ATER RISPECTION, THE CONTRACTOR WILL BE NOTIFIED IN WRITING BY THE OWNERS REPRESENTATIVE OF ACCEPTANCE OF THE WORK, EXCLUSIVE OF THE POSSIBLE REPLACEMENT OF PLANTINGS SUBJECT TO GUARANTEE: OR, IF THERE ARE ANY DEFICIENCIES, THE CONTRACTOR WILL BE NOTIFIED OF THE REQUIREMENTS INCESSARY FOR COMPLETION OF THE WORK PLANTINGS SHALL NOT BE CONSIDERED ACCEPTED UNTIL ALL DEFICIENCIES MAYE BEEN CORRECTED AND APPROVED BY WRITING.

(9.3) NURSERY STOCK SHALL BE FULLY GUARANTEED FOR ONE FULL YEAR AFTER DATE OF FINAL ACCEPTANCE. ALL PLANTS THAT FAIL, TO MAKE NEW GROWTH FROM A DORMANT CONDITION OR HAT OIL DOWN THE FIRST YEAR AFTER PLANTING SHALL BE REPLACED. ALL REPLACEMENTS SHALL CONFORM WITH THE ORIGINAL SPECIFICATIONS AS TO SIZE AND TYPE. ALL COSTS OF REPLACEMENTS SHALL BE BORNE BY THE CONTRACTOR.

COLUMN OTHER ITEMS NECESSARY TO MAKE WORK COMPLETE

(10.2) WASTE MATERIAL SHALL BE REMOVED FROM THE SITE DAILY

(10.1) ANY PLANT MATERIAL NOT PLANTED SHALL BE REMOVED FROM THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL UNUSED RUBBIS DEBRIS FROM THE SITE UPON COMPLETION OF HIS WORK.

(10.3) KEEP PAVEMENTS CLEAN AND WORK AREA IN AN ORDERLY CONDITION AT ALL TIMES. (10.4) PROTECT SEEDED AREAS AND MATERIALS FROM DAMAGE DUE TO OPERATIONS BY OTHER CONTRACTORS, TRADES, AND TRESPASSERS, MARITAIN PROTECTION DUBING INSTALLATION AND URIT, FRAIL ACCEPTANCE, TREAT, REPAIR OR REPLACE DAMAGED SEEDED AREAS AS DIRECTED.

(10.5) FINAL ACCEPTANCE WILL BE GIVEN BY THE OWNER OR THE OWNER'S REPRESENTATIVE UPON SATISFACTORY COMPLETION OF ALL WORK INCLUDING "PUNCH LIST" ITEMS.

351 McLaws Circle

Williamsburg, VA 23185 757.220.0500 Ka

Suite 3

WILLIAMSBURG, VA

**Busch Gardens** Project 2017

7851 Pocahontas Trail Williamsburg, Virginia

February 3, 2016

Not Approved for Construction

**Planting Notes** 

3/11/16

PIOTR SWIETUCHOWSKI Lic. No. 044606

3-11-16

ANTHONY I LOURIER Lic. No. 054250

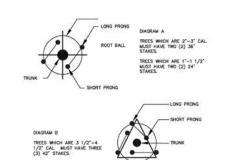
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JCC CASE #SP-0007-2016 33273 68

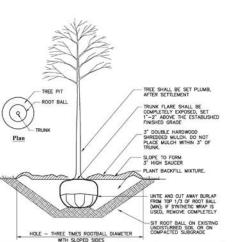




WILLIAMSBURG, VA

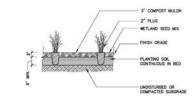






450000	WITH SLOPED SIDES	22
Tree Plant	ing	inc
N.T.S.	Source: VHD	LD_602

PLANT SPACING ("A")	ROW SPACING ("B")	
8 IN. O.C.	5 N. O.C.	
8 W. O.C.	7 IX. O.C.	
10 IN. O.C.	8-1/2 N. O.C.	1 100 800
12 N. O.C.	10-1/2 IN. O.C.	3 3
15 N. O.C.	13 IN. Q.C.	1 (8) /
18 N. O.C.	16 N. Q.C.	504



Grass Plug Planting			12/08
N.T.S.	REV	Source: VHB	LD.

TOP OF ROOT BALL 1 INCH ABOVE FINISH GRADE

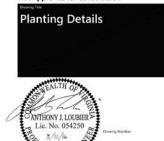
# **Busch Gardens** Project 2017

7851 Pocahontas Trail Williamsburg, Virginia

ŝ_	Revision	Date	Appvd.
	Revised Per County Comments	3/11/2016	PS
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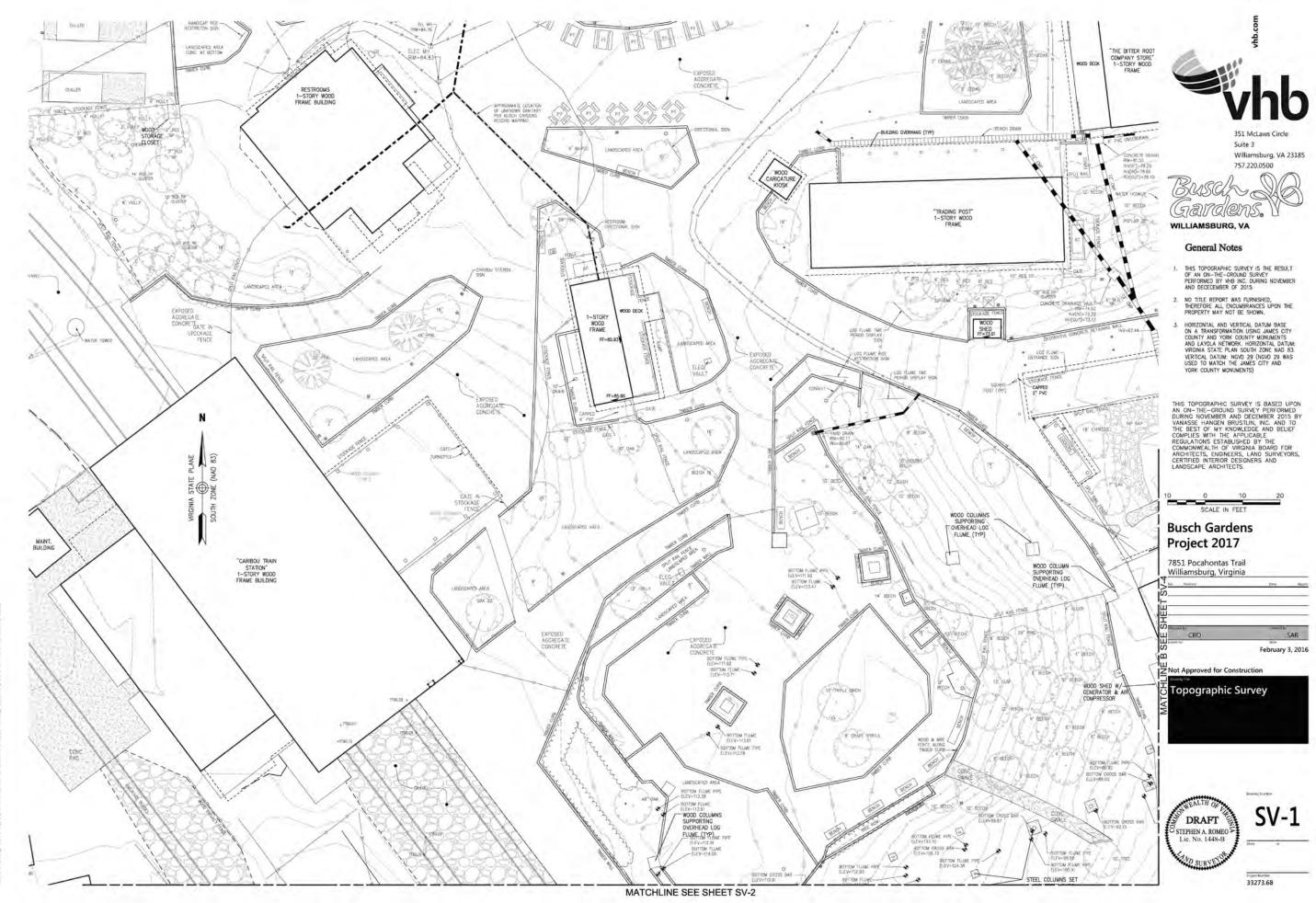
February 3, 2016





PIOTR SWIETUCHOWSKI

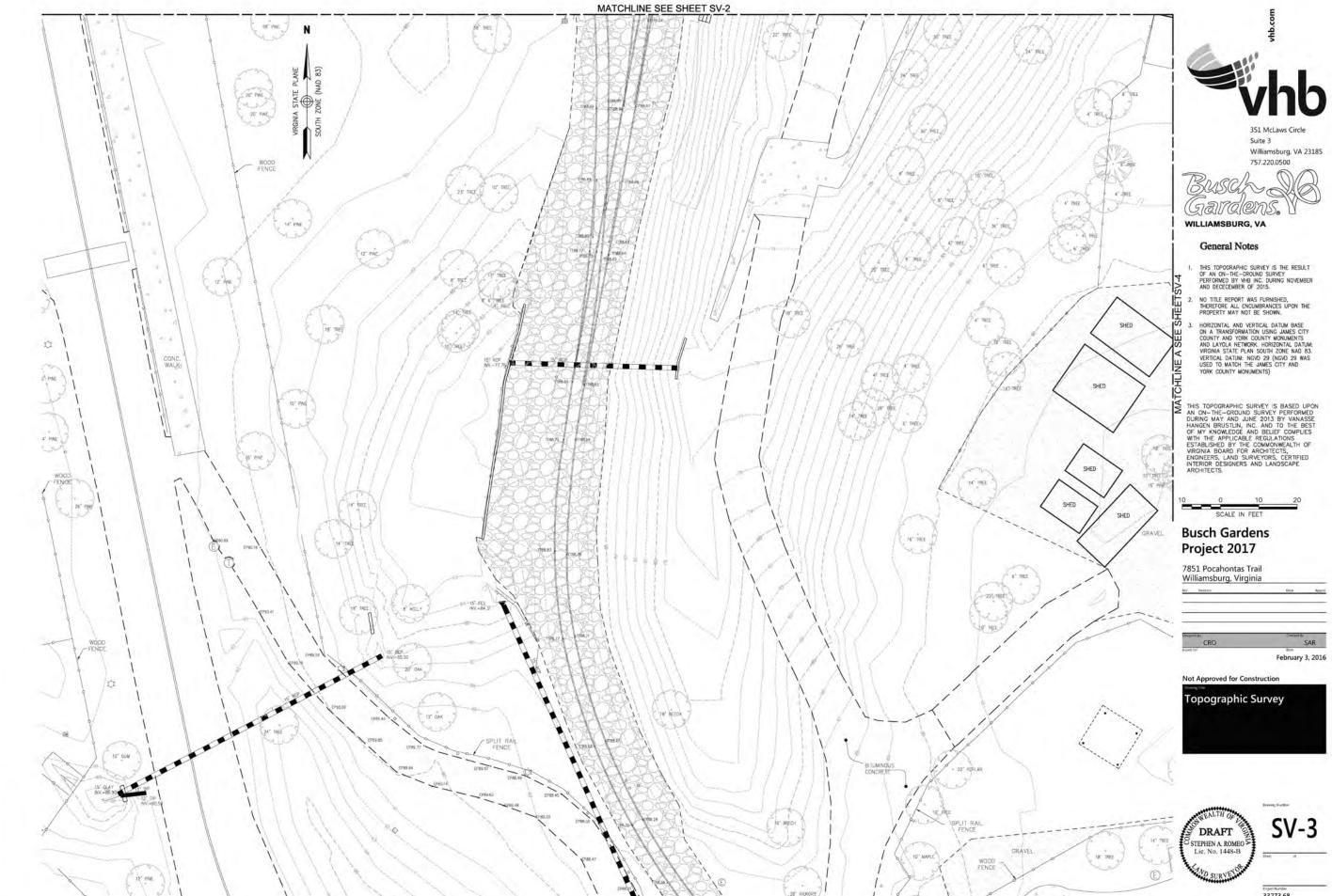
Shrub Bed Planting



Tayon Tayon March 03, 2016 4 18:30 PM COSTSBORE Pietles Monday, March 14, 2016 10:17:19 AM



MATCHLINE SEE SHEET SV-3



33273.68



Suite 3 Williamsburg, VA 23185

757.220.0500

## WILLIAMSBURG, VA

# General Notes

- THIS TOPOGRAPHIC SURVEY IS THE RESULT OF AN ON-THE-GROUND SURVEY PERFORMED BY VHB INC, DURING NOVEMBER AND DECECEMBER OF 2015.
- NO TITLE REPORT WAS FURNISHED, THEREFORE ALL ENCUMBRANCES UPON THE PROPERTY MAY NOT BE SHOWN.
- HORIZONTAL AND VERTICAL DATUM BASE ON A TRANSFORMATION USING JAMES CITY COUNTY AND YORK COUNTY MONUMENTS AND LAYOLA NETWORK HORIZONTAL DATUM: VIRGINIA STATE PLAN SOUTH ZONE NAD B3. VERTICAL DATUM: NGVO 29 (NGVO 29 WAS USED TO MATCH THE JAMES CITY AND YORK COUNTY MONUMENTS)

THIS TOPOGRAPHIC SURVEY IS BASED UPON AN ON—THE—GROUND SURVEY PERFORMED DURING MAY AND JUNE 2013 BY VANASSE HANGEN BRUSTLIN, INC. AND TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLIES WITH THE APPLICABLE REGULATIONS ESTABLISHED BY THE COMMONWEALTH OF VIRGINIA BOARD FOR ARCHITECTS, ENGINEERS, LAND SURVEYORS, CERTIFIED INTERIOR DESIGNERS AND LANDSCAPE ARCHITECTS.



# **Busch Gardens** Project 2017

7851 Pocahontas Trail Williamsburg, Virginia

CRO

February 3, 2016

Not Approved for Construction

**Topographic Survey** 

