LECEVID

	LEGEND		
PROPOSED	DESC.	EXISTING	
<u> </u>	CULVERT		
	CURB	~	
	CURB & GUTTER	; · · · · · · · · · · · · · · · · · · ·	
	DRY CURB & GUTTER		
4 4	PAVEMENT CONCRETE		
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9"	PAVED DITCH DITCH		
	PROPERTY CORNER		
	EARTH DITCH	<u></u>	<u> </u>
	BORING	9.	
	BENCH MARK	₩ #1	NAIL
	EXISTING TREE LINE CLEARING LIMITS	BM. #1	NAIL
200	CONTOUR		·
240.55	PROPOSED SPOT ELEVATION		
	TC DENOTES TOP/CURB PV DENOTES PAVEMENT (OR CONCRETE	
— ОНР ф ОНР	OVERHEAD POWER LINE AND POWER POLE	(q d ⁽⁾) d () -	410 a.s.
———— UGP ———	UNDERGROUND POWER LINE		
	UNDERGROUND FIBER OPTIC UNDERGROUND FIBER OPTIC		
TELU	UNDERGROUND TELEPHONE		
TELO CATV	OVERHEAD TELEPHONE LINE CABLE TV LINE		
TC	TRAFFIC CONTROL LINE		
DBS	DUCT BANK SYSTEM		National Section 1991
G	GAS LINE		
	FENCE LINE	······································	
	CONSTRUCTION EASEMENT LI	NE	
	PERMANENT EASEMENT LINE PROPERTY LINE		
CENTER TRANSPORTED & 6 4 CENTER EXPLOYER PARTY CANADISTS	CREEK LINE		
	CREEK LINE		
\$	SANITARY SEWER	THE SHIP SHIPS WAS ABOUT	
STA 0+64.86 N 2010.34 E 30022.52	M.H. NUMBER w/ COORDINATE LOCATION		
— W ————	WATER LINE	The second secon	क्ष्यकृतिक प्रस्ट र प्राप्ट क
—————————————————————————————————————	VALVE		·· · · · · · · ·
	REDUCER		
	PLUG CROSS		
† 	TEE		
- -	FIRE HYDRANT ASSEMBLY (INC 6" LINE, TEE, 6" VALVE AND	CLUDES HYDRANT)	
	AIR RELEASE VALVE, COMBINA AIR VALVE	ATION	
	SWAMP/WETLANDS		
SF 1 12 12 12	SILT FENCE		
CD O	CHECK DAM	3.20	
OP (III)	OUTLET PROTECTION	3.18	
$\left(B/M \right)$	SOIL STABILIZATION MAT	3.36	
(RR)	RIP RAP	3.19	
CIP ///	CULVERT INLET PROTECTION	3.08	
	INLET PROTECTION	3.07	
(TP)	TREE PROTECTION	3.38	
CE	CONSTRUCTION ENTRANCE	3.02	

* VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK SPECIFICATION NUMBER, THIRD EDITION, 1992.

ABBREVIATIONS:

A.B.O. ACCMP		ASPHALT COATED	MIN.		MINIMUM
ACCIVIT	_	ASPHALT COATED CORRUGATED METAL PIPE	MJ N.I.C.		MECHANICAL JOINT NOT IN CONTRACT
ASS'Y	_	ASSEMBLY	PC		POINT OF CURVATURE
В		BELL JOINT	PE		PLAIN END
		BITUMINOUS CONCRETE	Pl		POINT OF INTERSECTION
B.O.		BLOW OFF	PΤ		POINT OF TANGENT
C/L		CENTERLINE	R/W	_	RIGHT-OF-WAY
CL		CLASS	R	_	RESTRAINED JOINT
CMP		CORRUGATED METAL PIPE	REQ'D	_	REQUIRED
CONC.		CONCRETE	RCP	_	REINFORCED CONCRETE PIPE
C.Y.		CUBIC YARD	RT.	_	RIGHT
DATR	_	DEEMED ACCURATE	SAN		SANITARY SEWER
000		TO RECORD	SF		SILT FENCE
DBC		DIRECT BURIED CABLE	SFM		SEWER FORCE MAIN
D.I.		DUCTILE IRON	SD		STORM DRAIN
DR.		DRIVE	SS		SANITARY SEWER CONNECTION
E A		ELECTRIC	STA.		STATION
EA.		EACH			STORM SEWER
EOI		ELECTRICAL	STMH		STORM MANHOLE
E/P		EDGE OF PAVEMENT	T 50. 1		TELEPHONE
E BOX EXIST.		ELECTRICAL BOX	TCM		TELECOMMUNICATIONS MANH
		EXISTING	TH		TEST HOLE
G		FLANGE JOINT	THB		TELEPHONE
G	_	GAS	TS&V	-	TAPPING SLEEVE AND VALVE

MISS UTILITY OF VIRGINIA:

THE CONTRACTOR SHALL CALL "MISS UTILITY" 48 HOURS PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON PLANS IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT THE ENGINEER IMMEDIATELY IF THE LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON THE PLAN, IF THERE APPEARS TO BE A CONFLICT, AND/OR UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON PLAN. THE OWNER SHALL BE RESPONSIBLE FOR THE RELOCATION OF ANY UTILITY WITHIN EXISTING RIGHT OF WAY OR EASEMENTS AS REQUIRED BY THE PROJECT. CONTACT MISS UTILITY OF VIRGINIA: 1-800-552-7001 (TOLL FREE)

GENERAL NOTES:

- CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION MEETING WITH PRINCE GEORGE COUNTY PUBLIC UTILITIES, VDOT INSPECTOR, AND ENGINEER PRIOR TO STARTING ANY WORK ON THIS PROJECT.
- .. THE CONTRACTOR SHALL PAY FOR AND OBTAIN ALL REQUIRED PERMITS AND DELIVER COPIES TO PRINCE GEORGE COUNTY PUBLIC UTILITIES AND THE ENGINEER AT THE PRE-CONSTRUCTION MEETING.
- . CONTRACTOR SHALL NOTIFY PROPERTY OWNERS (IN WRITING) OF ANY WORK SCHEDULED ADJACENT TO OR THROUGH THEIR PROPERTY A MINIMUM OF TWO WEEKS IN ADVANCE PRIOR TO THE COMMENCEMENT OF ANY STAKING OR CONSTRUCTION ACTIVITY.
- 4. HORIZONTAL DATUM: NAD 83, VERTICAL DATUM: NAVD 88
- 5. STAKING FOR CONSTRUCTION, TO ASSURE PROPER LOCATION OF PROJECT COMPONENTS SHALL BE PERFORMED BY A CERTIFIED LAND SURVEYOR.
- 6. ALL EXISTING PROPERTY MARKERS ARE TO REMAIN UNDISTURBED. IF DISTURBANCE OCCURS, REPLACEMENT MUST BE PERFORMED BY A CERTIFIED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- . PREVIOUSLY ARRANGED ACCESS EASEMENTS, STAGING AREAS, STORAGE AREAS, ETC., IF ANY, ARE SHOWN ON THE DRAWINGS. ADDITIONAL LAND USE RIGHTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 8. WORK AREAS SHALL BE KEPT FREE OF DEBRIS AND HAZARDOUS MATERIAL AT ALL TIMES.
- J. THE CONTRACTOR SHALL COORDINATE STORAGE OF MATERIALS, PARKING OF VEHICLES, AND RESTRICTIONS OF WORK WITH THE PRINCE GEORGE COUNTY PUBLIC UTILITIES AND VOOT INSPECTORS.
- 10. CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL EXISTING FEATURES, SUCH AS GUARDRAIL, SIDEWALKS, BRICKWORK, CULVERTS, FENCES, SHRUBS, PLANTERS, ETC. TO THEIR ORIGINAL LOCATION AND CONDITION WHICH EXISTED PRIOR TO CONSTRUCTION. TOTAL REPLACEMENT MAY BE NECESSARY.
- 11. THE LOCATION OF EXISTING UTILITIES ACROSS OR ALONG THE ROUTE OF THE PROPOSED WORK IS NOT NECESSARILY SHOWN ON THE PLANS, AND WHEN SHOWN, IS ONLY APPROXIMATELY CORRECT. IN ADDITION TO CONTACTING MISS UTILITY PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL, LOCATE ALL EXISTING UNDERGROUND LINES, FACILITIES, AND STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY UNDERGROUND LINES, FACILITIES, AND STRUCTURES DAMAGED.
- 12. CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANIES PRIOR TO CONSTRUCTING PORTIONS OF WORK IMMEDIATELY ADJACENT TO UTILITY STRUCTURES. THE COSTS OF POLE AND/OR OTHER STRUCTURE STABILIZATION DURING WORK SHALL BE BORNE BY THE CONTRACTOR.
- 13. ALL WORK SHALL BE SUBJECT TO INSPECTION BY VDOT AND PRINCE GEORGE COUNTY INSPECTORS.
- 14. FINAL ACCEPTANCE BY PRINCE GEORGE COUNTY AND STATE WILL NOT BE MADE UNTIL ALL WORK SHOWN ON THE APPROVED CONTRACT DOCUMENTS IS COMPLETED, INCLUDING PAVING, GRADING AND ALL
- 15. FORCE MAIN SHALL BE HDPE 3408 DR-17 (DUCTILE IRON PIPE SIZE) EXCEPT WHERE OTHERWISE CALLED OUT ON THE DRAWINGS.
- 16. ALL WATERLINES SHALL HAVE A MINIMUM OF 3.5' OF COVER.
- 17. GRAVITY SEWER LINES, MANHOLES AND SEWER FORCE MAIN SHALL BE TESTED IN ACCORDANCE WITH SPECIFICATION SECTION 02530 - "SANITARY SEWER".
- 18. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PRESERVE THE EXISTING RIGHT-OF-WAY MONUMENTS. CERTIFIED BY LAND SURVEYOR.
- 19. EXCESS EXCAVATION TO BE DISPOSED OF AS DIRECTED BY THE OWNER AND/OR AS SHOWN ON THE EROSION CONTROL PLAN.
- 20. NO MORE THAN 500' OF TRENCH SHALL BE OPEN AT ONE TIME. ALL TRENCHES SHALL BE CLOSED AT THE END OF THE WORKDAY.
- 21. LAND DISTURBANCE WITHIN VDOT RIGHT-OF-WAY SHALL BE DRESSED UP, SEEDED AND MULCHED AT THE END OF EACH DAY AS WORK PROGRESSES.
- 24. CONTRACTOR TO SUPPLY WATER AS REQUIRED FOR ALL TESTING AND FLUSHING.
- 25. CONTRACTOR SHALL PROVIDE A CERTIFIED LAND DISTURBER FOR THE PROJECT CONSTRUCTION.
- 26. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST PRINCE GEORGE COUNTY SPECIFICATIONS.
- 27. ALL BALL CENTRIC VALVES TO BE MANUFACTURED BY CLOW VALVE COMPANY.

PRINCE GEORGE COUNTY PUBLIC UTILITIES 6602 COURTS DRIVE PRINCE GEORGE, VIRGINIA 23875

ATTN: STEVE McBRIDE, PE VΦICE: 804-722-8687 FAX: 804-733-2779 EMAIL: SMCBRIDE@PRINCEGEORGEVA.ORG 1001 BOULDERS PARKWAY SUITE 300 RICHMOND, VA 23225 ATTN: STUART LITTLE VOICE: 804-200-6500 FAX: 804-560-1431 EMAIL: <u>stuart.little@timmons.com</u>

WATER UTILITY
PRINCE GEORGE COUNTY PUBLIC UTILITIES 6602 COURTS DRIVE PRINCE GEORGE, VIRGINIA 23875 ATTN: STEVE McBRIDE, PE VØICE: 804-722-8687 FAX: 804-733-2779 EMAIL: SMCBRIDE@PRINCEGEORGEVA.ORG

PRINCE GEORGE COUNTY PUBLIC UTILITIES STANDARD SEWER AND WATER NOTES

- ALL MATERIALS FOR SEWER AND WATER SYSTEMS SHOWN SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE LATEST SPECIFICATIONS OF PRINCE GEORGE COUNTY APPLICABLE AT THE TIME OF NOTICE TO PROCEED.
- FOR SEWER AND WATER INSTALLATION WITHIN EXISTING VDOT R/W; UTILITY CONTRACTORS MUST NOTIFY VDOT WHEN INSTALLATION BEGINS SO THAT DENSITY CAN BE TESTED ON TRENCH BACKFILL (95% ASTM. D-698 @ OPTIMUM MOISTURE ±2%).
- THE INSTALLATION OF A SEWER BACKFLOW DEVICE IS REQUIRED FOR ALL SERVICE CONNECTIONS WHERE THE FINISHED FLOOR ELEVATION IS LOWER THAN THE NEAREST DOWNGRADE AND/OR UPGRADE MANHOLE TOP ELEVATIONS. THIS DEVICE WILL BE INSPECTED BY THE BUILDING INSPECTION DEPARTMENT.
- ALL WATER SERVICE CONNECTIONS BELOW THE ELEVATION CONTOUR OR WHERE THE PRESSURE IS GREATER THAN 80 P.S.I. WILL REQUIRE INDIVIDUAL PRESSURE REGULATORS AS REQUIRED BY BOCA
- J. VERTICAL DATUM IS BASED ON MEAN SEA LEVEL (UCS & GS DATUM). HORIZONTAL CONTROLS ARE BASED ON VIRGINIA STATE PLANE COORDINATE GRID, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983
- . CONTRACTOR SHALL PROPERLY NOTIFY ALL PROPERTY OWNERS TWO (2) WEEKS PRIOR TO THE START OF ANY CONSTRUCTION (INCLUDING LAND CLEARING). NOTIFICATION SHALL BE IN THE FORM OF A LETTER SIMILAR TO THE "SAMPLE" REFLECTED IN THE COUNTY; S LATEST WATER AND SEWER SPECIFICATIONS (NOT-1).
- THE ENGINEER WILL CERTIFY THAT THE ROADS ARE WITHIN 6-INCHES OF SUBGRADE BEFORE WATERLINE CONSTRUCTION CAN BEGIN.
- FOR SEWER AND WATER INSTALLATION WITHIN EXISTING VDOT R/W; UTILITY CONTRACTORS SHALL NOTIFY VDOT 48 HOURS IN ADVANCE WHEN INSTALLATION BEGINS SO THAT DENSITY CAN BE TESTED (95% @ OPTIMUM MOISTURE +20%).
- CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON THE PLANS IN AREAS OF CONSTRUCTION PRIOR TO STARTING THE WORK. CONTACT ENGINEER IMMEDIATELY IF: LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON THE PLAN, OR IF: THERE APPEARS TO BE CONFLICT, AND UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON THE PLAN CALL MISS UTILITY OF VIRGINIA AT 1-800-552-7001 (TOLL FREE).
- 10. THE INSTALLATION OF A BACKFLOW DEVICE IS REQUIRED IN ALL HOUSES WHERE THE FINISHED FLOOR ELEVATION IS LOWER THAN THE TOP UPGRADE MANHOLE. THIS DEVICE WILL BE INSPECTED BY THE COUNTY PUBLIC BUILDING INSPECTOR.
- 11. INDIVIDUAL WATER SERVICES SHALL BE 3/4".
- 12. ALL WATERLINE VALVES MUST BE LOCATED ON THE TEE OR CROSS WHEN APPLICABLE.
- 13. ALL MANHOLES IN UTILITY EASEMENTS ARE TO HAVE THE CONCRETE SECTION EXTENDED ONE FOOT ABOVE THE GROUND OR DETAIL MAN-2B SHALL BE USED.
- 14. A SMOOTH TRANSITION OF A DROP MANHOLE MUST BE PROVIDED FOR EACH LATERAL OR SANITARY SEWER ENTERING A SANITARY MANHOLE.
- 15. ALL FIRE HYDRANTS SHALL BE O.S.H.A. RED IN COLOR.
- 16. METER BOXES PROVIDED SHALL BE CAST IRON 12"x18"x24" HIGH WITH CAST IRON LIDS. THE METER ASSEMBLIES ARE TO BE SUPPLIED WITH NEPTUNE PROREAD ENCODERS AND R9001 PIT MIU (RF) ATTACHED TO THE LID. METERS ARE TO BE COMPATIBLE WITH THE PROPOSED SYSTEM. A WAND TYPE VISUAL READER COMPATIBLE WITH THE PROREAD SYSTEM WILL BE SUPPLIED TO THE UTILITY DEPARTMENT WITH THE WATER METERS.
- 17. ALL SANITARY SEWER LATERALS THAT ARE INSTALLED OUTSIDE OF THE R/W ARE TO HAVE THE CLEANOUT INSTALLED AT THE EDGE OF THE EASEMENT. A CARSONITE MARKER SHALL ALSO BE INSTALLED TO INDICATE THEIR LOCATION.
- 18. ALL HYDRANTS AND BENDS SHALL BE EQUIPPED WITH MEGA LUGS, KICKERS AND THRUST BLOCKS.
- 19. PRESSURE REDUCING VALVES SHALL BE USED ON LOTS WHERE THE STATIC PRESSURE IN THE SYSTEM EXCEEDS 80 P.S.I. OR AS REQUIRED BY BUILDING CODE.
- 20. CLEANOUTS ARE TO BE INSTALLED ON ALL SANITARY LATERALS IN ACCORDANCE WITH PRINCE GEORGE COUNTY SPECIFICATIONS. THESE CLEANOUTS SHOULD BE INSTALLED AT THE EDGE OF THE R/W.
- 21. UTILITY INSPECTOR SHALL BE CONTACTED BEFORE INDIVIDUAL SERVICE CONNECTIONS ARE COVERED.
- 22. ALL MANHOLES WITHIN 1,000 FEET OF A FORCE MAIN DISCHARGE SHALL BE COATED AS REQUIRED IN THE LATEST COUNTY SPECIFICATIONS.
- 23. ALL INDIVIDUAL WATER AND SEWER CONNECTIONS SHALL BE MADE USING DOUBLE BANDED, STAINLESS STEEL, EPOXY COATED SADDLES.
- 24. A 'W' AND 'S' SHALL BE STAMPED IN THE CURB WHILE THE CONCRETE IS STILL WET. THESE MARKS SHALL INDICATE THE ACTUAL LOCATION OF WATER AND SEWER CONNECTIONS FOR EACH LOT.
- 25. ALL MANHOLES SHALL BE SEALED AT THE JOINTS WITH AN EXTERNAL RUBBER SLEEVE SIMILAR TO THE INFI-SHIELD SEAL WRAP AS MANUFACTURED BY SEALING SYSTEMS, INC. THE SEAL SHALL BE MADE OF EPDM (ETHYLENE PROPYLENE DIENE MONOMER) RUBBER WITH A MINIMUM THICKNESS OF 65 MILS. EACH UNIT SHALL HAVE A 2-INCH WIDE MASTIC STRIP ON THE TOP AND BOTTOM EDGE OF THE RUBBER WRAP. THE MASTIC SHALL BE NON-HARDENING BUTYL RUBBER SEALANT, WITH A MINIMUM THICKNESS OF 125 MILS.
- 26. THE BOXES FOR THE SEWER CONNECTIONS MUST BE MARKED AS SEWER CONNECTIONS RATHER THAN
- 27. ALL GATE VALVE BOXES LOCATED OUTSIDE THE PAVEMENT NEED TO BE ENCLOSED IN A 12"x12"x6" CONCRETE ENCLOSURE.

No. 039974

DRAWN BY

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