OF THE VIRGINIA DEPARTHENT OF HIGHWAYS AND TRANSPORATION SHALL GOVERN THE FOLLOWING: A. POURING, CURING, FORMS, WORKHANSHIP, ETC OF ALL CONCRETE USED ON THIS PROJECT. STABILIZED BASE COARSE HATERIAL AND SURFACE TREATMENT OR BITUMINOUS SURFACE. HATERIALS AND INSTALLING OF ALL PIPE CULVERTS. ALL CURB AND GUTTER FILLETS AT INTERSECTIONS ARE TO HAVE 20' RADII UNLESS OTHERWISE NOTED. ALL EARTH DITCH FILLETS AT INTERSECTIONS ARE TO HAVE 35' RADII UNLESS OTHERWISE NOTED. BACKFILL FOR ALL UTILITIES WITHIN PROPOSED SUBDIVISION STREETS SHALL BE PLACED GENERALLY IN ACCORDANCE WITH PRINCE GEORGE COUNTY UTILITY SPECIFICATIONS AND THE FOLLOWING CRITERIA. A. NO TRENCH SHALL BE BACKFILLED UNTIL AUTHORIZED BY THE COUNTY ENGINEER. HATERIALS USED FOR BACKFILL FROM THE BOTTOM OF THE TRENCH TO TWELVE (12") INCHES ABOVE THE PIPE SHALL BE SELECT MATERIAL FREE FROM FROST, LARGE CLODS, COMPACTED TO INSURE A SOUND BACKFILL AROUND AND OVER THE THE DEPTH OF THE TRENCH TO OBTAIN 95% DENSITY AT OPTIMUM HOISTURE ±20%. THIS IS TO INSURE A SUITABLE SUBBASE, ACCEPTABLE TO THE ROAD ENGINEER FOR THE PROPOSED IF. IN THE OPINION OF THE COUNTY ENGINEER. THE MATERIAL TAKEN FROM THE DITCH IS NOT SUITABLE FOR BACKFILLING, IT SHALL BE REHOVED AND ACCEPTABLE MATERIAL USED FOR BACKFILLING THE TRENCH. 4. ALL UTILITIES TO BE IN PLACE BEFORE LAYING BASE HATERIAL (AGGREGATE, TYPE 21-A) THE LOCATION OF ALL DRAINAGE STRUCTURES ON THESE PLANS IS APPROXIMATE. FINAL FIELD LOCATION MAY BE MADE BY THE ENGINEER TO MEET FIELD CONDITIONS. ALL VEGETATION AND OVERBURDEN TO BE REHOVED FROM SHOULDER TO SHOULDER PRIOR TO THE CONDITIONING OF THE SUBGRADE. ALL DRAINAGE EASEMENTS TO BE CLEARED, GRUBBED AND GRADED TO CONTAIN WATER FROM PIPE CULVERTS. LENGTH OF ALL PIPE CULVERTS SHOWN ON THESE PLANS IS APPROXIMATE CONCRETE FOR CURB AND GUTTER SHALL BE CLASS A-3 PER CURRENT SPECIFICATIONS OF THE VIRGINIA DEPARTHENT OF HIGHWAYS AND THE VIRGINIA DEPARTMENT OF HIGHWAYS AND TRANSPORTATION APPROVAL OF THESE PLANS WILL EXPIRE THREE (3) YEARS FROM THE DATE OF APPROVAL. 11. THE CONTRACTOR WILL SEED ALL SLOPES AS SOON AS POSSIBLE TO ELIMINATE UNNECESSARY EROSION. NO DISTURBED SURFACE WILL BE LEFT UNSEEDED. WHERE REQUIRED. ALL ROAD DITCHES ARE TO BE PAVED IN ACCORDANCE WITH STANDARD PG-2A-1 (MODIFIED TO FIT TYPICAL SECTION) WITH HINIMUM DEPTH TO CONTAIN TEN YEAR STORM. UNLESS OTHERWISE DIRECTED BY THE ENGINEER IN WRITING. VIRGINIA DEPARTMENT OF HIGHWAYS AND TRANSPORTATION APPROVAL OF SUBDIVISION ROAD PLANS DOES NOT PRECLUDE THE RIGHT TO ADD ADDITIONAL FACILITIES SUCH AS SEEDING. PAVING. SILT DAMS. SILT BASINS, ETC. AS MAY BE DEEMED NECESSARY BY THE DEPARTMENT PRIOR TO THE ACCEPTANCE OF SUCH ROADS IN ORDER TO LIMIT SILTATION AND POLLUTION OF NEARBY LAKES, PONDS, STREAMS, AND ADJACENT PROPERTIES. 13. ALL DRAINAGE EASEMENTS ARE TO EXTEND TO A NATURAL WATER COURSE 14. SLOPE EASEMENTS FOR FILL SLOPES ARE REQUIRED WHERE SLOPES EXCEED PROPOSED RIGHT OF WAY LIHITS. A PERMIT TO TIE INTO EXISTING ROADS SHALL BE OBTAINED FROM THE RESIDENT ENGINEER PRIOR TO ROAD CONSTRUCTION. THE CONTRACTOR WILL SEED ALL SLOPES AND EASEMENTS WITH AT LEAST A TEMPORARY SEEDING WITHIN FIFTEEN (15) DAYS AFTER COMPLETION OF STREET GRADING OR STORM SEWER PLACEMENT TO ELIHINATE UNNECESSARY EROSION. NO DISTURBED AREA WILL BE ALLOWED AT THE TIME OF ACCEPTANCE OF THE ROAD INTO THE STATE SYSTEM. ALL SUBGRADE MATERIAL SHALL HAVE MINIMUM CBR VALUE OF TEN (10). THE BASE MATERIAL FOR ALL STREETS MUST BE APPROVED BY THE ROAD ENGINEER PRIOR TO THE PLACEMENT OF THE SURFACE COURSE. IF UNSUITABLE MATERIAL FOR THE SUBGRADE IS ENCOUNTERED. THE ROAD ENGINEER MUST BE NOTIFIED PRIOR TO PLACEMENT OF THE BASE MATERIAL. THE ROAD ENGINEER HUST BE NOTIFIED PRIOR TO THE SURFACE TREATHENT BEING APPLIED. THE LOCATION OF EXISTING UTILITIES, STORM SEWERS, SANITARY SEWERS, GAS LINES, WATER LINES, ELECTRICAL LINES AND TELEPHONE LINES EITHER UNDERGROUND AND/OR OVERHEAD ACROSS OR ALONG THE LINE OF PROPOSED WORK ARE NOT NECESSARILY SHOWN ON THE PLANS AND WHERE AT NO EXTRA COST, LOCATE ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. NO CLAIMS FOR DAMAGES OR EXTRA COMPENSATION SHALL ACCURE TO THE CONTRACTOR FROM THE PRESENCE OF SUCH PIPES OR OTHER OBSTRUCTIONS OR FROM ANY DELAY DUE TO THE REMOVAL OF OR REARRANGEMENT OF SAME. ALL CUT AND FILL SLOPES AND CHANNELSIDE SLOPES WHICH ARE NOT PAVED SHALL BE SEEDED UNTIL A GOOD STAND OF GRASS IS OBTAINED IN ACCORDANCE WITH THE VIRGINIA EROSION & SEDIMENT CONTROL HANDDBOOK AND THE FOLLOWING TABLE: 100 LB. PER 1000 SQ. FT. GROUND LIMESTONE OR EQUIVALENT. NO SOIL TEST REQUIRED FOR INITIAL ESTABLISHMENT. 25 LB. OF 5-20-10 FERTILIZER OR EQUIVALENT PER 1000 SQ. FT. VARIETIES TO BE SEEDED: SPRING SEEDING - MARCH 1 THRU MAY 1; SUMMER SEEDING - MAY 1 THRU AUGUST 1: AUTUMN SEEDING - AUGUST 1 THRU OCTOBER 1; MULCH 80 LB. STRAW PER 1000 SQ. FT. OR ASPHALT MULCH 10 GAL. PER 1000 SQ. FT. 5. ALL SEEDING MUST BE MULCHED. AUTHORIZED LOCAL OFFICIALS SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF THE WORK TO BE STARTED SO AN AUTHORIZED REPRESENTATIVE MAY BE ASSIGNED TO MAKE ANY AND ALL NECESSARY INSPECTIONS OF THE WORK PERFORMED. CONTRACTOR SHALL CALL FOR COUNTY INSPECTION OF ALL PIPE LINE INSTALLAION PRIOR TO PLACING BACKFILL. WHEN ALL IMPROVEHENTS ARE COMPLETED. ALL DRAINAGE AND SANITARY SEVER LINES ARE FLUSHED AND CLEANED OF FOREIGN MATTER AND ALL CURBS, GUTTERS AND STREETS ARE CLEANED AND FREE OF DIRT AND DEBRIS. THE DEVELOPER SHALL NOTIFY THE APPROPRIATE LOCAL OFFICIAL TO MAKE FINAL INSPECTION, A REPRESENTATIVE OF THE DEVELOPER SHALL BE PRESENT AT THE FINAL INSPECTION. THE CONTRACTOR SHALL NOTIFY THE LOCAL INSPECTOR AT LEAST 24 HOURS BEFORE PLACING BASE STONE SO THE SUBGRADE HAY BE

WILDWOOD SECTION

VIRGINIA CLICLIC COLVER, JANUARY 15,

DRAINAGE SUMMARY

148' - 21" RCP CLASS III. S = 1.00% INV. IN = 144.59 INV. OUT = 143.11

DI-7, TOP = 149.0, INV = 144.59

MH-2 MANHOLE, TOP = 151.0, INV. = 143.01240' - 21" RCP CLASS III. S = 1.00%

INV. IN = 143.01 INV. OUT = 140.61

DI-3B, $L = 12^{\circ}$, TOP = 145.48 LEFT; 145.60 RIGHT INV. = 140.36

INV. OUT = 137.887 DI-3C, L = 12', TOP = 142.70, INV. = 137.78

248' - 24" RCP CLASS III. S = 1.00%

208' - 24" RCP CLASS III, S = 0.80% INV. IN = 137.78 INV. OUT = 136.12

DI-3B, $L = 8.0^{\circ}$, TOP = 140.12, INV = 132.21

10 88' - 27" RCP CLASS III, S = 0.64% INV. IN = 132.21 INV. OUT = 131.6511. DI-3A, L = 2.5', TOP = 138.53, INV. = 131.55

12 104' - 27" RCP CLASS III, S = 0.64% ES-1 END SECTION REQUIRED AT TERMINUS

13 DI-3B, L = 16', TOP = 140.48 LEFT; 140.12 RIGHT INV. = 132.62

14 34' - 15" RCP CLASS III, S = 0.48% INV. IN = 132.62INV. OUT = 132.46

DI-3A, L = 2.5', TOP = 136.00INV. = 131.04

16 112' - 15" RCP CLASS III, S = 0.48% INV. IN = 131.04 INV. OUT = 130.50ES-1 END SECTION REQUIRED AT TERMINUS

17 | 116'- 15" RCP CLASS III, S = 0.50% INV. IN = 153.00 INV. OUT = 152.50

ALL STRUCTURES THAT ARE DEEPER THAN 4.0' SHALL HAVE VDOT STANDARD STEPS.

SEWER AND WATER NOTES

MIXTURE #5 AT 1 LB. PER 1000 SQ. FT.

MIXTURE #4 1-1/2 LBS. PER 1000 SQ. FT

MIXTURE #5 AT 1 LB. PER 1000 SQ. FT.

INSPECTED AND 24 HOURS BEFORE PLACING SURFACE COURSE SO THE

WHERE DITCHES ARE DEEPENED TO ACCOMODATE CULVERTS, THE SLOPE

CONTRACTOR SHALL NOTIFY "MISS UTILITY" (1-800-552-7001) BEFORE

ALL CONCENTRATED DRAINAGE BEING CONVEYED FROM ROADSIDE DITCHES

ALL MATERIALS FOR THE SEWER SYSTEM SHOWN SHALL BE SUPPLIED AND

INSTALLED IN ACCORDANCE WITH THE LATEST APPLICABLE SPECIFICATIONS

IN CUT SECTIONS INTO FILL SECTIONS SHOULD BE CONFINED ALONG

FROM THE SHOULDER TO THE DITCH SHALL BE MAINTAINED THEREBY

HOVING THE DITCH PROFILE FURTHER FROM THE CENTERLINE.

LOCAL INSPECTOR WILL BE ON SITE.

BEGINNING ANY EXCAVATION.

TURNED ONTO ADJACENT LOTS.

FOR PRINCE GEORGE COUNTY.

MINIMUM CLEAR COVER FOR ALL WATER PIPE SHALL BE 3.5 FEET.

ALL MATERIALS FOR SEVER AND WATER SYSTEMS SHOWN SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE LATEST APPLICABLE SPECIFICATION OF PRINCE GEORGE COUNTY.

ANY LOT WITH LESS THAN BU FEET OF FRONTAGE SHALL I STAKED PRIOR TO CONSTRUCTION OF A B' SEVIER SERVICE.

BEDDING SHALL BE AS SHOWN IN DETAIL ON SHEET 2 OF 7 SEWER GRADES ARE BASED ON U.S.C. AND G. S. DATUM.

CONTRACTOR SHALL INSTALL 6" SEMER SERVICE CONNECTIONS TO ALL LOTS (R/W LINE OR EDGE OF EASEMENT)
AS SHOWN. ALL WATER SERVICES ARE TO BE COPPER, TYPE K, DRAWN TUBING.

10. THE CONTRACTOR WILL INSTALL ALL WATER CONNECTIONS AND METER BOXES.
METER BOXES ARE TO BE 24 IN HEIGHTS. 11. FIRE INDRANT PUMPER CONNECTIONS SHALL FACE IN THE DIRECTION OF THE ARROW. 7. THE EXACT MANHOLE TOP SHALL BE ON THE SAME GRADE AS THE FINISHED ROAD GRADE AND AS NOTED ON SENER OUT SHEETS.

15. FOR SEWER AND WATER INSTALLATION WITHIN EXISTING VOOT R/W; UTILITY CONTRACTORS MUST NOTIFY VOOT WIEN INSTALLATION BEGINS SO THAT DENSITY CAN BE TESTED (95% & OPTIMUM MOISTURE +20%). 18. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON THE PLANS IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT ENGINEER IMMEDIATELY, IF: LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN, ON THE PLAN, OR IF: THERE APPEARS TO BE A CONFLICT, AND UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON THE PLAN. TO MISS THE UTILITY CALL "MISS UTILITY" OF CENTRAL VIRGINIA: 1-800-552-7001 (TOLL FREE).

". THE INSTALLATION OF BACK FLOW DEVICE IS REQUIRED IN ALL HOUSES WHERE THE FINISHED FLOOR ELEVATION IS LOWER THAN UPGRADE MANHOLES. THIS DEVICE WILL BE INSPECTED BY THE COUNTY BUILDING INSPECTOR. I. INDIVIOUAL WATER SERVICES TO BE 3/4"

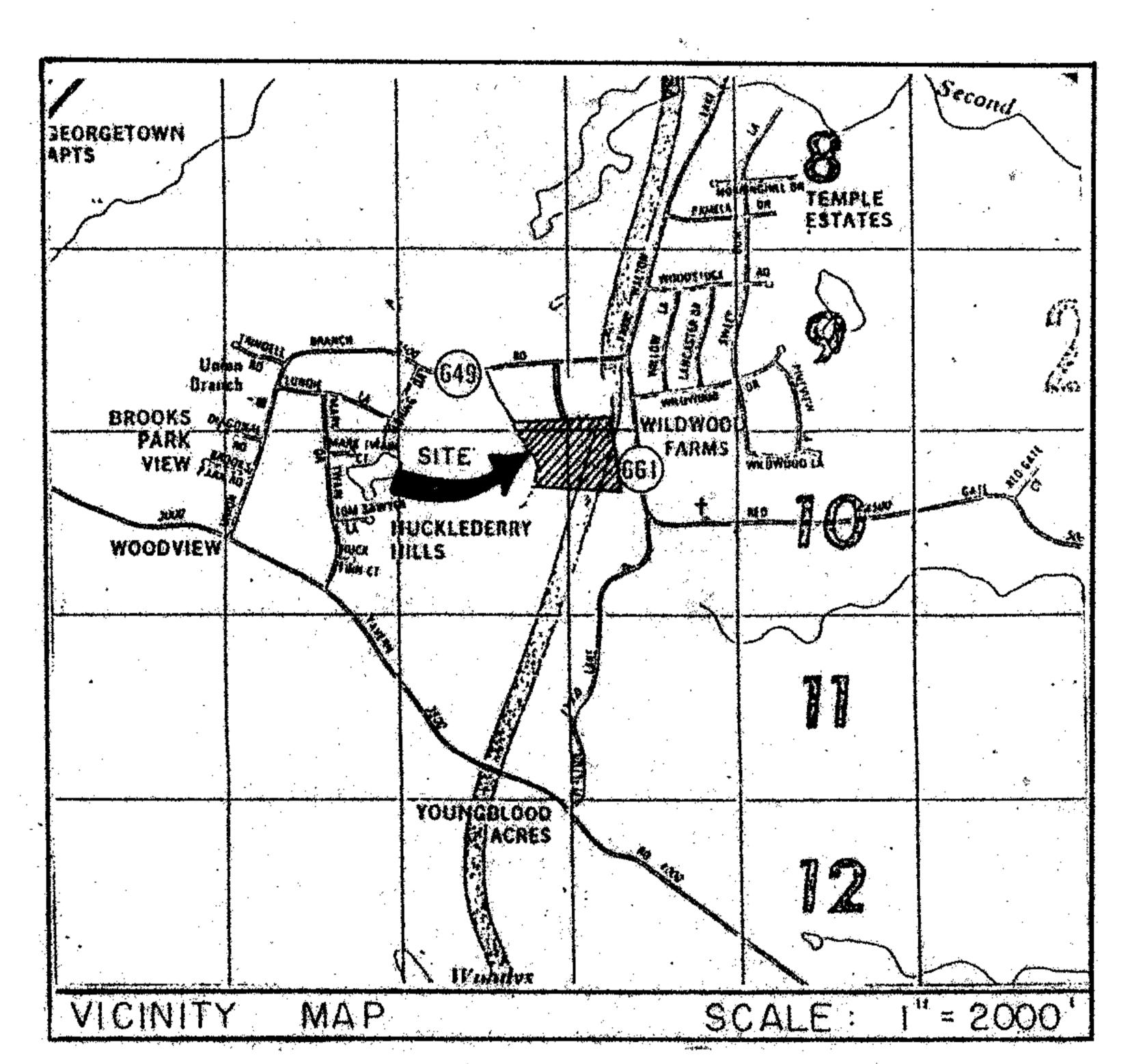
19. ALL WATERLINE VALVES MUST BE LOCATED ON THE TEE OR CROSS WHEN APPLICABLE.

20. ALL MANHOLES IN UTILITY EASEMENTS ARE TO HAVE THE CONCRETE SECTION EXTENDED ONE FOOT ABOVE THE GROUND . USE OF HEIGHT ADJUSTMENT RINGS WILL NOT BE ALLOWED EXCEPT UNDER PAVED SURFACES WHERE A MAXIMUM OF ONE RING IS PERMITTED.

22. A SMOOTH TRANSITION OF DROP MANHOLE MUST BE PROVIDED FOR EACH LATERAL OR SANITARY SENER ENTERING A SANITARY MANHOLE.

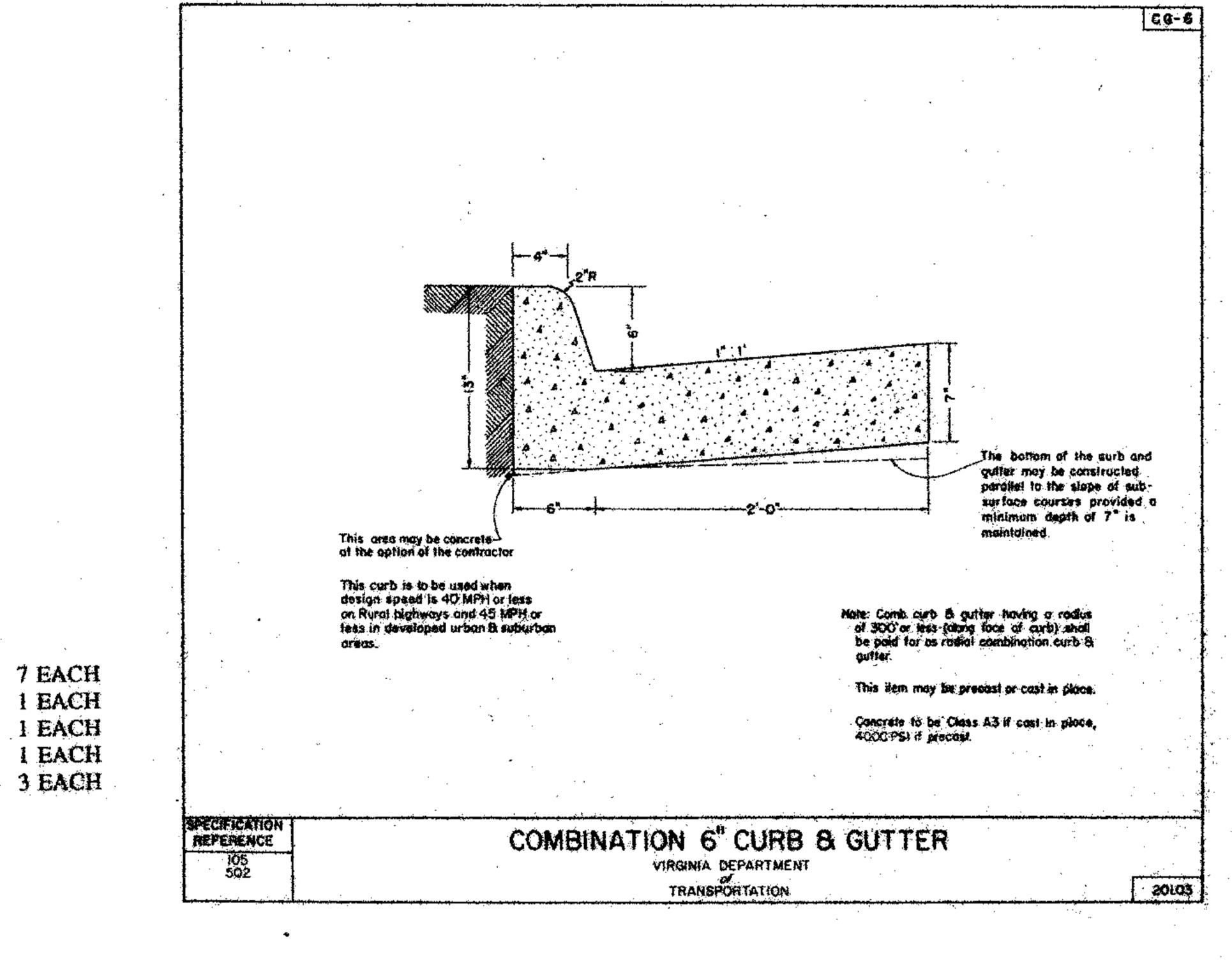
24. A "W" AND "S" SHALL BE STAMPED ON THE CURB WHILE THE CONCRETE IS STILL WET. THESE WARKS SHALL INDICATE THE ACTUAL LOCATION OF THE WATER AND SOMER CONNECTIONS FOR EACH LO 25. METER BOXES PROVIDED SHALL DE CAST MON 12"NIB" WITH CAST MON LIPS. THE METER ASSEMBLIES ARE TO BE DEVELOPER

M & G ASSOCIATES, INC. CHARLES L. LUNDIE, INC. 3833 S. CRATER ROAD PETERSBURG, VIRGINIA 23805 TEL: (804)732-5777



TYPICAL ROAD SECTION NOT TO SCALE HALF SECTION FILL HALF SECTION CUT HUGHES FARM LANE I. AGGREGATE BASE COURSE: 8" TYPE I WITH #218 STONE 2 AGGREGATE BASE TREATED WITH 2" BITUMINOUS CONCRETE (SM-2A) 3. CURB & GUTTER - VIRGINIA DEPARTMENT OF HIGHWAYS STANDARD CG-6 COBBLEWOOD DRIVE, BASSWOOD ROAD I AGGREGATE BASE COURSE: 6"TYPE | WITH # 21B STONE 2. AGGREGATE BASE TREATED WITH 11/2" BITUMINOUS CONCRETE (SM-2A) 3. CURB & GUTTER - VIRGINIA DEPARTMENT OF HIGHWAYS STANDARD CG-6

AN ASPHALT PRIME COAT OF RC-250 IS REQUIRED OVER THE STONE BASE AT A RATE OF 0.25 - 0.30 GALS. / SO.YD. FOR ALL PROPOSED ROADS.



LIST OF MATERIALS

LIST OF MATERIALS

6" GATE VALVE & BOX

8" GATE VALVE & BOX.

8" x 6" CROSS

FIRE HYDRANTS

8" x 6" TEE

PROPOSED SPOT ELEVATIONS

VDOT STANDARD STOP SIGN

(T/C - TOP OF CURB)

SANITARY SEWER STANDARD MANHOLE FRAME & COVER FT. MANHOLE (VT. FT.) 8" PVC PIPE 6" PVC SERVICES (VIA TEB) 6" PVC SERVICES (VIA M/H) WATER
8" PVC PIPE 6" PVC PIPE 8" x 6" CROSS 8" x 6" TEE 8" GATE VALVE 6" GATE VALVE 8" BLIND CAP 2" BLOW OFF FIRE HYDRANT ASSEMBLY SERVICES

NOTE: ALL QUANTITIES LISTED ABOVE ARE APPROXIMATE ONLY, CONTRACTOR IS RESPONSIBLE FOR DOING HIS OWN TAKE OFFS FROM THESE PLANS.

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EROSION CONTROL ROAD AND DRAINAGE EROSION CONTROL DEVICES AS PER VIRGINIA EXISTING SANITARY SEWER EROSION AND SEDIMENT CONTROL HANDBOOK EXISTING CULVERT OR STORM SEWER PIPE SANITARY SEWER SERVICE DROP INLET & STRUCTURE NO. XXX SILT FENCE PROPOSED MANHOLE INLET PROTECTION EXISTING MANHOLE **EXISTING WATERLINE** TEMPORARY DIVERSION DIKE PAVED DITCH PROPOSED WATERLINE TEMPORARY SEDIMENT TRAP JUTE MESH OR SODDED DITCH EARTH DITCH - GRASS LINED ROCK CHECK DAM FIRE HYDRANT ASSEMBLY EXISTING CONTOUR TEE OR TAPPING SLEEVE EXISTING SPOT ELEVATIONS

BLIND CAP

BORE CROSSING

REVISIONS COUNTY

JANUARY 15, 1996 AS SHOWN DRAWN BY

CHECKED BY

SHEET 1 OF 6

SUCH AREAS BY TOE DITCHES WHERE ADJACENT PROPERTY SLOPES AWAY FROM ROADWAY. TO PREVENT CONCENTRATED DRAINAGE FROM BEING EXCESS EXCAVATION TO BE DISPOSED OF AS DIRECTED BY THE 23. ALL FIRE HYDRANTS SHALL BE O.S.H.A. YELLOW IN COLOR. ALL MANHOLES IN UTILITY EASEMENTS ARE TO HAVE THE CONCRETE SECTION EXTENDED ONE FOOT ABOVE THE GROUND. USE OF HEIGHT ADJUSTMENT RINGS WILL NOT BE ALLOWED EXCEPT UNDER PAVED SURFACES WHERE A MAXIMUM OF ONE RING IS PERMITTED SUPPLIED WITH NEPTUNE PROREAU A.R.B. SYSTEMS ATTACHED TO THE LID. METERS ARE TO BE COMPATRILE WITH THE PROPOSED SYSTEM. A SMOOTH TRANSITION OR DROP MANHOLE MUST BE PROVIDED FOR EACH LATERAL OR SANITARY SEWER ENTERING A SANITARY SEWER MANHOLE

APPROVED FOR CONSTRUCTION SUBJECT TO INSPECTION BY COUNTY ENGINEER DATE 10/29/96 APPROVAL FOR: STORMWATER MANAGEMENT WATER DISTRIBUTION SANITARY SEWER COLLECTION This drawing and the design shown is the property of Charles C. Townes & any infringement will be subject to legal

LEGEND