PRINCE GEORGE COUNTY
DEPARTMENT OF PUBLIC UTILITIES

NOTES:

1. 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.
2. 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%).
3. 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.
4. 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 CODE.
5. VERTICAL DATUM IS BASED ON MEAN SEA LEVEL (USC & GS DATUM). HORIZONTAL CONTROLS ARE BASED ON VIRGINIA STATE PLANE COORDINATE GRID, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83).
6. 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).

REQUIRED INFORMATION FOR TITLE PAGE

APPLICANTS NAME _____
ZONING AND CASE# _____
NUMBER OF LOTS _____
TAX MAP NUMBER _____
DATE OF PLANNING _____
COMMISSION APPROVAL _____

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JAN. 2008	STANDARD SEWER AND WATER NOTES	DES-2
REVISIONS		

PRINCE GEORGE COUNTY
DEPARTMENT OF PUBLIC UTILITIES

NOTES CONT:

7. THE ENGINEER WILL CERTIFY THAT THE ROADS ARE WITHIN 6-INCHES OF SUBGRADE BEFORE WATERLINE CONSTRUCTION CAN BEGIN.
8. 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%)
9. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON THE PLANSIN 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 A 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 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 PSI 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.

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PRINCE GEORGE COUNTY
DEPARTMENT OF PUBLIC UTILITIES

NOTES CONT:

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 THE 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 WATER METER
27. ALL GATE VALVE BOXES LOCATED OUTSIDE THE PAVEMENT NEED TO BE ENCLOSED IN A 12"x12"x6" CONCRETE ENCLOSURE.

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Fire Flow Estimate Form

International Fire Code Method of Calculating NFF (Needed Fire Flow)

Engineer: Timmons Group — Date: 5/13/10
Project Name and Address: The Jefferson Center — Calc by: K. Halpaus
Type of Construction – Based on 2000 Edition of the International Building Code: V-B
Number of Stories: 1
Total (Gross) Floor Area – Including Projections (Canopies, Loading Docks, Etc): 17,500 S.F.
Total Area of Other Floors – Including Basements: ____
Total Building Area in Square Feet: 17,500 S.F.

FIRE AREA CONSIDERED: 7,350 S.F.

Note: In order to apply the reduction in area for a building, a fire resistive rated FIRE WALL without openings shall be provided. WITHOUT OPENINGS refers to no penetrations being permitted (i.e. – doors, duct penetrations, pipe penetrations. (B104.1)

Fire Resistive Rating of FIRE WALL: 2 (Hours)
Area In Square Feet Between FIRE WALL or Either Side: 7,350 S.F.
Required Fire Flow from International Fire Code – Table B105.1: 1,750 GPM
Fire Flow Duration in Hours from International Fire Code – Table B105.1: 2 HRS

REQUIRED FIRE FLOW: (Based on Total Adjusted Square Foot Area)
Automatic Sprinkler (YES ___ NO ___) Reduction Factor (75% max) ____ % x (NFF) ____ = ____ GPM

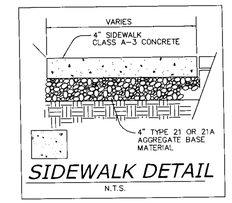
NOTE: MINIMUM REQUIRED FIRE FLOW NOT LESS THAN 1500 GPM AT MINIMUM 20 PSI RESIDUAL PRESSURE — **TOTAL GPM: 1,750**

FIRE HYDRANTS AND SPACING:
REQUIRED MINIMUM NUMBER OF FIRE HYDRANTS (IFC Table C105.1): 1
AVERAGE SPACING BETWEEN FIRE HYDRANTS (IFC Table C105.1): 500

2 EXISTING PROVIDED

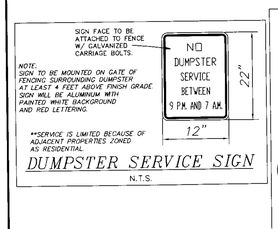
I CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND CORRECT.
SIGNATURE: Kathleen Halpaus P.E.
(SIGNATURE REQUIRED)

Reference: 2000 Edition International Fire Code, Appendix B, C, and D



SIDEWALK DETAIL
N.T.S.

COMMONWEALTH OF VIRGINIA
KATHLEEN M. HALPAUS
Lic. No. 40944
5/13/10
PROFESSIONAL ENGINEER



DUMPSTER SERVICE SIGN
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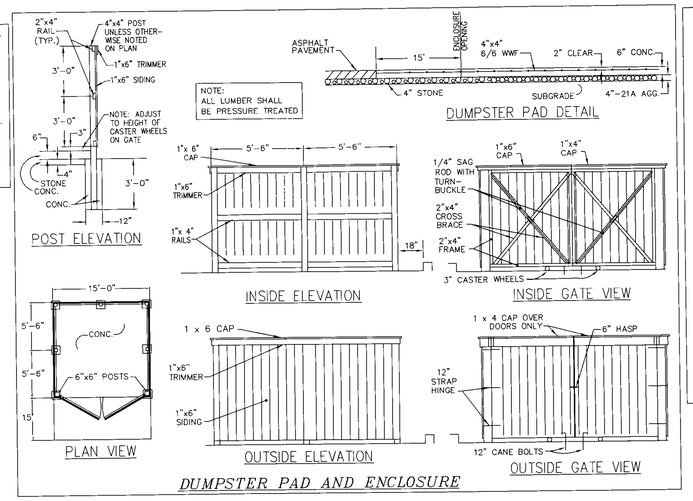

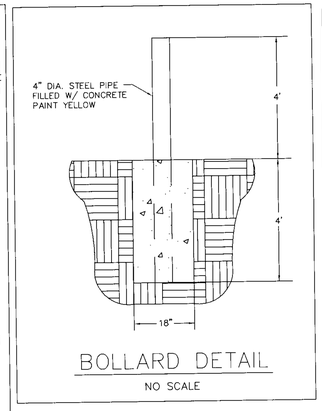

BOLLARD DETAIL
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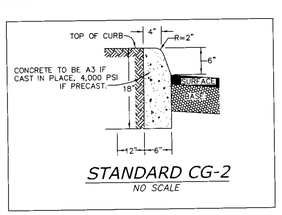
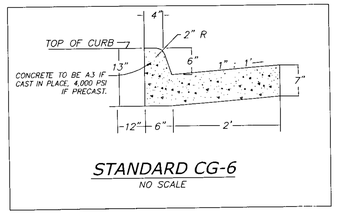


STANDARD CG-2
NO SCALE



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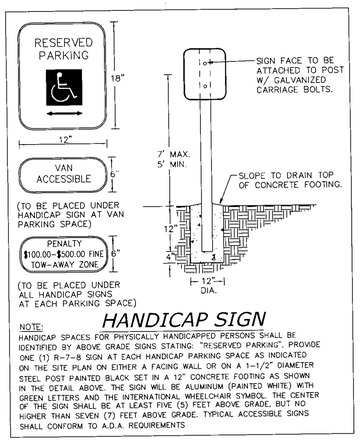
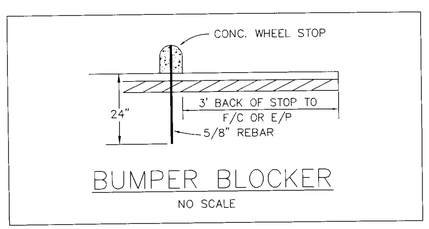
NO SCALE

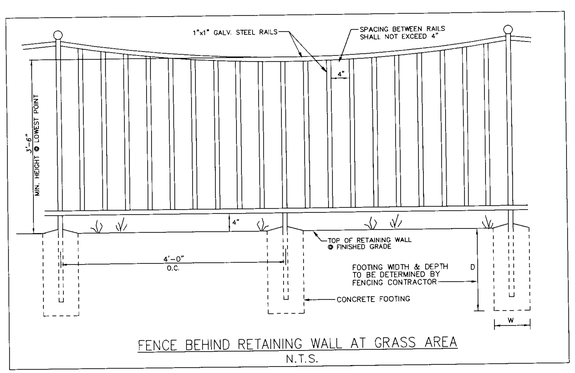


HANDICAP SIGN

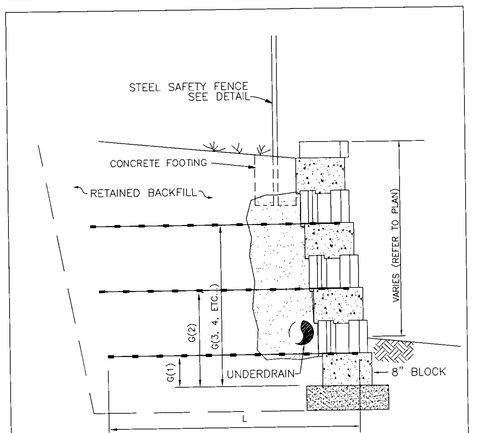
NOTE:
HANDICAP SPACES FOR PHYSICALLY HANDICAPPED PERSONS SHALL BE IDENTIFIED BY ABOVE GRADE SIGNS STATING: "RESERVED PARKING". PROVIDE ONE (1) R-7-8 SIGN AT EACH HANDICAP PARKING SPACE AS INDICATED ON THE SITE PLAN ON EITHER A FACING WALL OR ON A 1-1/2" DIAMETER STEEL POST PAINTED BLACK SET IN A 12" CONCRETE FOOTING AS SHOWN IN THE DETAIL ABOVE. THE SIGN WILL BE ALUMINUM (PAINTED WHITE) WITH GREEN LETTERS AND THE INTERNATIONAL WHEELCHAIR SYMBOL. THE CENTER OF THE SIGN SHALL BE AT LEAST FIVE (5) FEET ABOVE GRADE, BUT NO HIGHER THAN SEVEN (7) FEET ABOVE GRADE. TYPICAL ACCESSIBLE SIGNS SHALL CONFORM TO A.D.A. REQUIREMENTS



BUMPER BLOCKER
NO SCALE



FENCE BEHIND RETAINING WALL AT GRASS AREA
N.T.S.



GENERAL NOTES

1. ACTUAL SITE CONDITIONS WILL DETERMINE AMOUNT OF GEOGRID REQUIRED.
2. COMPACTION SHALL BE TO 95% STANDARD PROCTOR DENSITY.
3. COMPACTION TESTS SHALL BE TAKEN.
4. GEOGRID SHALL EXTEND TO THE FRONT OF THE UNITS.
5. MINIMUM EMBEDMENT OF BASE SHALL BE 8" FOR WALLS UNDER 4' HIGH AND 16" FOR LARGER WALLS.
6. DETERMINATION OF FINAL WALL DESIGN AND INSTALLATION SHALL BE MADE BY A QUALIFIED ENGINEER.

   TIMMONS GROUP IS NOT RESPONSIBLE OR LIABLE FOR FINAL WALL DESIGN AND/OR ITS CONSTRUCTION.
7. PROVIDE LATERAL DRAINAGE. TURF SHALL BE ESTABLISHED IMMEDIATELY AFTER COMPLETION OF THE RETAINING WALL.
8. CONTRACTOR MAY OPT FOR AN UNREINFORCED CONCRETE LEVELING PAD. 2" THICK OVER 4" COMPACTED GRANULAR BASE.
9. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINATION OF FOOTING DEPTH AND BLOCK COURSE BELOW THE FINISHED GRADE ELEVATIONS SHOWN ON THE PLAN.

DETAIL SHOWN FOR GENERAL INFORMATION ONLY.
FOLLOW APPLICABLE STATE AND LOCAL BUILDING CODES FOR FINAL WALL DESIGN/CONSTRUCTION

TYPICAL REINFORCED SOIL RETAINING WALL WITH COMPACTED FILL

(USING 8" BLOCK)
ROCKWOOD RETAINING WALL SYSTEMS: 1-800-768-4955

CONSTRUCTION NOTES

1. THE DEVELOPER IS REPONSIBLE FOR INSPECTION OF THE AGGREGATE BASE COURSE(S) 48 HOURS PRIOR TO APPLICATION OF THE SURFACE COURSE(S).
2. ALL GRADE STAKES DESTROYED BY THE CONTRACTOR, SHALL BE REPLACED AT HIS EXPENSE.
3. EXCESS EXCAVATION TO BE DISPOSED OF AS DIRECTED BY THE OWNER.
4. THE OWNER SHALL ACQUIRE ANY AND ALL NECESSARY CONSTRUCTION PERMITS.
5. STAKING SHALL BE DONE ONLY BY A CERTIFIED LAND SURVEYOR. DO NOT STAKE FROM THESE PLANS.
6. VDOT AND COUNTY APPROVAL OF SUBDIVISION ROAD PLANS DOES NOT PRECLUDE THE RIGHT TO ADDITIONAL FACILITIES SUCH AS SEEDING, PAVING, SILT DAMS, ETC. AS MAY BE DEEMED NECESSARY BY EITHER AUTHORITY PRIOR TO THE THE ACCEPTANCE OF SUCH ROADS IN ORDER TO LIMIT SILTATION AND POLLUTION OF NEARBY LAKES, PONDS, STREAMS AND ADJACENT PROPERTY. CONTACT VDOT FOR INSPECTION OF THE AGGREGATE BASE COURSE(S) 48 HOURS PRIOR TO THE APPLICATION OF THE SURFACE COURSE(S).
7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PRESERVE THE EXISTING RIGHT OF WAY STONES. ANY MARKERS DAMAGED SHALL BE REPLACED AT HIS EXPENSE.
8. ALL UTILITIES TO BE IN PLACE PRIOR TO LAYING BASE MATERIAL.
9. LANDSCAPING: SITE IMPROVEMENT WILL BE INSTALLED AND MAINTAINED SO AS NOT TO INTERFERE WITH SIGHT DISTANCE OF DRIVERS WITHIN THE PARKING AREA OR AT ENTRANCE/EXIT LOCATIONS.
10. SEE VDOT SUBDIVISION AND SITE CONSTRUCTION PLAN GENERAL NOTES.

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 DEVELOPER SHALL BE RESPONSIBLE FOR THE RELOCATION OF ANY UTILITY WITHIN THE EXISTING AND/OR RIGHT OF WAY REQUIRED BY THE DEVELOPMENT. CONTACT MISS UTILITY OF VIRGINIA: 1-800-552-7001 (TOLL FREE) or 811.

THIS DRAWING PREPARED AT THE
TRI-CITIES OFFICE
4260 Crossings Blvd | Prince George, VA 23875
TEL 804.458.8685 FAX 804.751.0798 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

Site Development | Residential | Infrastructure | Technology

DATE	REVISION DESCRIPTION
5-18-10	COUNTY COMMENTS

DATE	22 MAR 2010
DRAWN BY	K. HALPAUS
DESIGNED BY	D. JOHNSON
CHECKED BY	D. JOHNSON
SCALE	NONE
JOB NO.	889
SHEET NO.	2

TIMMONS GROUP

THE JEFFERSON CENTER
BLAND DISTRICT - PRINCE GEORGE COUNTY - VIRGINIA
NOTES AND DETAILS

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