

CIVIL GENERAL NOTES

ABBREVIATIONS

LEGEND

- 1. THE NOTES, ABBREVIATIONS AND LEGEND ON THIS SHEET APPLY TO ALL CIVIL DRAWINGS.
- 2. TOPOGRAPHIC SURVEY PROVIDED BY BALDWIN & GREGG, LTD., DECEMBER 2009. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, THEY SHALL BE RESPONSIBLE AT THEIR OWN EXPENSE TO OBTAIN A TOPOGRAPHIC SURVEY FROM A REGISTERED LAND SURVEYOR AND SUBMIT TO CONTRACTING OFFICER FOR REVIEW.
- 3. COORDINATES SHOWN ARE IN FEET AND REFERENCED TO VIRGINIA STATE PLAN COORDINATES, SOUTH ZONE, NORTH AMERICAN DATUM 1983 (NAD83).
- 4. ELEVATIONS SHOWN ARE IN FEET AND ARE REFERENCED TO NORFOLK NAVAL SHIPYARD DATUM: B.M. #1 ASSUMED ELEVATION OF 100.00. TO CONVERT TO NATIONAL GEODETIC VERTICAL DATUM 1929, 72 ADJUSTMENT (NVGD29) (72) SUBTRACT 92.94.

BENCHMARK 408: ELEVATION = 103.21.
- 5. THE LOCATIONS SHOWN FOR EXISTING UTILITIES ARE BASED ON AVAILABLE BASE UTILITY PLANS AND ABOVE GROUND STRUCTURES AND SHALL BE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES THROUGH THE USE OF A QUALIFIED UNDERGROUND UTILITY LOCATION SERVICE PRIOR TO ANY EXCAVATION. ALL UTILITIES LOCATED SHALL BE INDICATED ON THE "AS-BUILT" DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE PWC UTILITIES OFFICE 72 HOURS PRIOR TO COMMENCING ANY DEMOLITION, EXCAVATION, OR CONSTRUCTION.
- 6. ALL VALVES, FITTINGS, MANHOLES, ETC. HAVE BEEN LOCATED IN PLAN AND DIMENSIONS SHOWN SHALL BE STRICTLY ADHERED TO UNLESS OTHERWISE DIRECTED BY THE CONTRACTING OFFICER. PROFILE STATIONING SHALL BE ADJUSTED AS REQUIRED TO CONFORM TO PLAN DIMENSIONS.
- 7. FLOOD DATA:

100-YEAR FLOOD ELEVATION = 102.80
500-YEAR FLOOD ELEVATION = 104.20

FLOOD DATA IS FROM NAVY PUBLIC WORKS CENTER-NORFOLK NAVAL SHIPYARD FLOODPLAIN MAP REVISED DECEMBER 2007. ELEVATIONS ARE BASED ON NNSY DATUM.
- 8. ALL DIMENSIONS ARE INDICATED IN FEET (FT) UNLESS OTHERWISE INDICATED.
- 9. ALL ITEMS DESIGNATED "VDOT STD." SHALL BE IN CONFORMANCE WITH THE VIRGINIA DEPARTMENT OF TRANSPORTATION 2008 ROAD AND BRIDGE STANDARDS. UNLESS OTHERWISE SPECIFIED, MATERIALS AND CONSTRUCTION OF SUCH STANDARD ITEMS ARE REFERENCED TO THE VIRGINIA DEPARTMENT OF TRANSPORTATION 2007 ROAD AND BRIDGE SPECIFICATIONS.
- 10. ALL MANHOLE AND INLET CASTINGS SHALL CONFORM TO APPLICABLE FEDERAL STANDARDS REFERENCED IN SPECIFICATIONS.
- 11. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE CONTRACTING OFFICER AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER A MINIMUM OF 15 DAYS IN ADVANCE OF ANY UTILITY OUTAGES.
- 12. THE ELIZABETH RIVER AT THE NORFOLK NAVAL SHIPYARD MEAN LOW WATER ELEVATION IS 93.43 FEET. THE MEAN HIGH WATER ELEVATION IS 96.18 FEET.
- 13. THE CONTRACTOR'S LAYDOWN AREA SHALL BE AT THE DIRECTION OF THE CONTRACTING OFFICER, AND AS INDICATED ON SHT C-103.
- 14. CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY AND AS DIRECTED BY THE CONTRACTING OFFICER.
- 15. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND THE SPECIFICATIONS.
- 16. NEW UTILITY STAKEOUT DIMENSIONS ARE TO CENTERLINE OF STRUCTURE AND CENTERLINE OF PIPE, UNLESS INDICATED OTHERWISE.
- 17. PROVIDE UNIFORM SLOPE BETWEEN INDICATED ELEVATIONS SO THAT ALL AREAS SLOPE TO DRAIN AND NO STORMWATER IS PONDED ON SITE BOTH DURING AND AFTER CONSTRUCTION.

- 18. FINISH GRADES SHOWN ON THESE DRAWINGS REFER TO TOP OF TOPSOIL, CONCRETE, ASPHALT OR CRUSHED ROCK SURFACING. ALLOW FOR THICKNESS OF TOPSOIL, CONCRETE, ASPHALT, ETC. WHEN ESTABLISHING SUBGRADE ELEVATIONS.
- 19. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LAYOUT AND ELEVATION CONTROL FOR THE PROJECT.
- 20. UNLESS NOTED OTHERWISE, ALL EXISTING FACILITIES ARE TO REMAIN UNDISTURBED AND USED IN PLACE. THE CONTRACTOR SHALL PROVIDE PROTECTIONS NECESSARY TO PREVENT DAMAGE. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE, AT THEIR EXPENSE, ALL EXISTING FACILITIES DAMAGED DURING CONSTRUCTION ACTIVITIES. EXISTING FACILITIES NOTED FOR REMOVAL SHALL BE REMOVED AND DISPOSED OFF-SITE AT THE CONTRACTOR'S EXPENSE. ALL EXCESS MATERIAL RESULTING FROM EARTHWORK OPERATIONS SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE. METHOD OF DISPOSAL OF MATERIAL AND LOCATION SHALL BE APPROVED BY THE CONTRACTING OFFICER.
- 21. DUST CONTROL SHALL BE PROVIDED BY THE CONTRACTOR DURING THE ENTIRE EARTHWORK CONSTRUCTION PERIOD.
- 22. DURING EARTHWORK ACTIVITIES THE SURROUNDING PAVED AREAS SHALL BE KEPT CLEAN OF ALL MATERIAL TRACKED ONTO IT UNTIL PAVING IS COMPLETE.
- 23. CONTRACTOR SHALL OBTAIN A NPDES STORMWATER PERMIT FOR CONSTRUCTION AS REQUIRED.

@	-	AT
%	-	PERCENT
#	-	NUMBER
APPROX	-	APPROXIMATE
ASTM	-	AMERICAN SOCIETY FOR TESTING & MATERIALS
AWG	-	AMERICA WIRE GAUGE
BLDG	-	BUILDING
BM#	-	BENCHMARK NUMBER
BP	-	BRACE POST
BW	-	BARBED WIRE / BOTTOM OF WALL
CB	-	CATCH BASIN
CL	-	CENTER LINE
CLR	-	CLEAR
CONC	-	CONCRETE
CP#	-	CONTROL POINT NUMBER
Ø OR DIA	-	DIAMETER
DIP	-	DUCTILE IRON PIPE
DND	-	DO NOT DISTURB
DWG	-	DRAWING
EL OR ELEV	-	ELEVATION
EOC	-	EDGE OF CONCRETE
ESMT	-	EASEMENT
ETC	-	ETCETERA
EXIST OR EX	-	EXISTING
FF	-	FINISHED FLOOR
FH	-	FIRE HYDRANT
FT OR '	-	FOOT
FW	-	FRESH WATER
GALV	-	GALVANIZED
HB	-	HORIZONTAL BEND
HDPE	-	HIGH DENSITY POLYETHYLENE
HPW	-	HIGH PRESSURE WATER
IN OR "	-	INCH
INCL	-	INCLUDED
INV	-	INVERT
LBS	-	POUNDS
LBS/FT	-	POUNDS PER FOOT
LF	-	LINEAR FEET
LS	-	LAND SURVEYOR
MH	-	MANHOLE
MAX	-	MAXIMUM
MIN	-	MINIMUM
MUTCD	-	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
NE	-	NORTHEAST
NO	-	NUMBER
NW	-	NORTHWEST
OC	-	ON CENTER
OD	-	OUTSIDE DIAMETER
PC	-	POINT OF CURVATURE
PCC	-	PORTLAND CEMENT CONCRETE
PCR	-	POINT OF CURB RETURN
PI	-	POINT OF INTERSECTION
PROP	-	PROPOSED
PT	-	POINT OF TANGENCY OR POINT OF INTERSECTION
PVC	-	POLYVINYL CHLORIDE PIPE
PVMT	-	PAVEMENT
RD	-	ROAD
REINF	-	REINFORCED
RCP	-	REINFORCED CONCRETE PIPE
SAN	-	SANITARY SEWER
SD	-	STORM DRAIN
SE	-	SOUTHEAST
SF	-	SQUARE FEET
SHT	-	SHEET
STA	-	STATION
STD	-	STANDARD
ST	-	SPIRAL TO TANGENT
STM	-	STEAM
SW	-	SOUTHWEST, SALTWATER
T/C	-	TOP OF COVER
T/G	-	TOP OF GRATE
TS	-	TANGENT TO SPIRAL
TW	-	TOP OF WALL
TYP	-	TYPICAL
UED	-	UNDERGROUND ELECTRIC DUCT
UGA	-	UNDERGROUND COMPRESSED AIR
UIP	-	USE IN PLACE
VB	-	VERTICAL BEND
W	-	WITH
WW	-	WOVEN WIRE
WWF	-	WELDED WIRE FABRIC

EXISTING		NEW
---	-970-	MAJOR CONTOUR
----	-971----	MINOR CONTOUR
-x-----x-		SLOPE INDICATOR
-x-----x-		CENTERLINE FENCE
o		OVERHEAD POWER
o		PIPE BOLLARD/GUARDPOST
+	972.18	SPOT ELEVATION
==		ROAD
		NORTH/EAST
		CURB AND GUTTER
		ASPHALT/BITUMINOUS PAVEMENT
		CONCRETE
		AGGREGATE
		UNDISTURBED EARTH
		COMPACTED SUB-GRADE
		GRADING LIMITS
△		SECTION CORNER FOUND
●		TEMPORARY BENCHMARK
○		SET 1/2" BAR W/ CLS 20 CAP
○	BOR B-4	BORING LOCATION
+		STREET/TRAFFIC SIGN
-s-		UNDERGROUND SEWER LINE
-g-		UNDERGROUND GAS MAIN
+		GAS MAIN RELEASE VALVE
+		GAS MAIN SIGN
-t-		UNDERGROUND TELEPHONE LINE
-tv-		TELEPHONE PEDESTAL
-tv-		UNDERGROUND CABLE TV LINE
-tv-		CABLE TV PEDESTAL
-w-		WATER MAIN
⊕		MONITORING WELL
⊕		FIRE HYDRANT
⊕		WATER VALVE
---	UGE	UNDERGROUND ELECTRIC LINE
⊕		ELECTRIC MANHOLE
⊕		ELECTRIC PEDESTAL
☆		LIGHT POLE
⊕		UTILITY POLE
⊕		JUNCTION BOX
⊕		SANITARY SEWER MANHOLE
⊕		STORM SEWER MANHOLE
⊕		STORM SEWER DRAIN
⊕		STORM SEWER INLET
⊕		ROOF DRAIN
⊕		DECIDUOUS TREE
⊕		MONITOR WELL
(M)		MEASURED DIMENSION
⊕		SOIL BORING LOCATION
⊕		CONNECT TO EXISTING

DATE	
DESCRIPTION	
BY	
SCALE	
APPROVED	
FOR COMMANDER NAVFAC	
ACTIVITY	
SATISFACTORY TO DATE	
DES	SPH [drw CRJ] [chk DPS]
PM	John A. Moore, R.A.
BRANCH MANAGER	
CHIEF ENGINEER	
DATE	03/16/2016
DEPARTMENT OF THE NAVY	
NAVAL FACILITIES ENGINEERING COMMAND	
NAVAL FACILITIES ENGINEERING COMMAND - MID ATLANTIC	
HAMPDEN ROAD IPT	
NORFOLK NAVAL SHIPYARD	
PORTSMOUTH, VIRGINIA	
BUILDING DEMO: 1568, DWC, PART 1475	
GENERAL NOTES AND LEGEND	
SCALE:	AS SHOWN
PROJECT NO.:	568932
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO.	12605404
SHEET	8 OF 55
C-001	
DRAWING REVISION: 10 MARCH 2009	

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