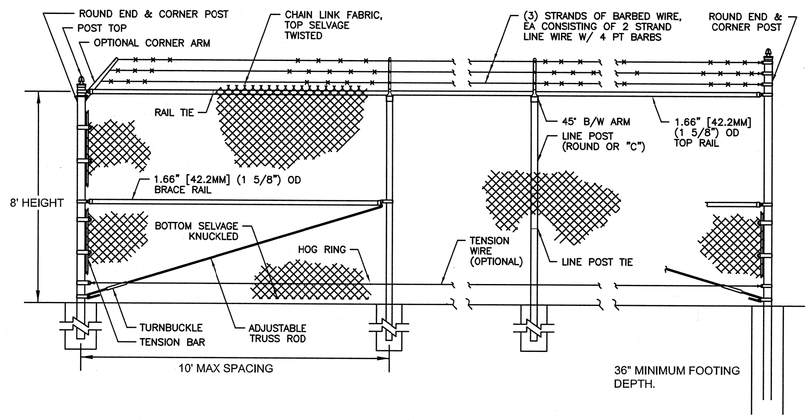
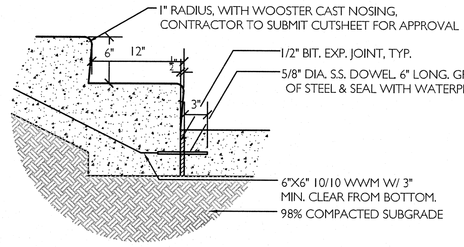


3 C-102 CHAIN LINK FENCE WITH BARBED WIRE DETAIL

SCALE: N.T.S.



NOTES
1. CONCRETE STEP DETAIL IS SCHEMATIC. SEE LAYOUT AND GRADING PLANS FOR CORRECT NUMBER OR RISERS AND LENGTH OF LANDINGS.
2. CONCRETE TO BE 3,600 PSI @ 28 DAYS (BROOM SWEPT FINISH, PERPENDICULAR TO TRAVEL)

4 C-102 CONCRETE RISER DETAIL

SCALE: N.T.S.

1 C-102 LAYOUT + DRAINAGE PLAN

SCALE: 1" = 20'

GRADING AND PAVING NOTES

1. ALL EXISTING UTILITIES SHALL BE FIELD LOCATED AND FLAGGED PRIOR TO THE START OF WORK.

2. THE CONTRACTOR SHALL REMOVE ALL VEGETATION, SURPLUS SOIL, DEMOLITION RUBBLE, AND OTHER UNDESIRABLE MATERIALS. SUCH MATERIALS SHALL BE PROMPTLY HAULED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH GOVERNING LAWS AND CODES. THE CONTRACTOR SHALL SHAPE THE SUB-GRADE IN ACCORDANCE WITH THE GRADING PLAN, TAKING INTO ACCOUNT THE THICKNESS OF THE PAVING SYSTEM. THE TOLERANCE OF ROUGH GRADING SHALL BE WITHIN 1/2" HIGH TO 1" LOW.

3. WHERE ASPHALT PAVING MEETS CONCRETE PAVING SUCH AS AT CONCRETE CURBING, THE ASPHALT SHOULD BE FINISHED 1/4" TO 1/2" ABOVE THE CONCRETE SURFACE TO ALLOW FOR FURTHER TRAFFIC COMPACTION OF THE ASPHALT.

4. DURING PREPARATION OF THE SUB-GRADE, AND UNTIL THE PAVING IS IN PLACE, THE CONTRACTOR SHALL PROMPTLY TAKE REASONABLE MEASURES TO OBTAIN AND MAINTAIN A DRY SITE CONDITION. SUCH MEASURES SHALL INCLUDE PUMPING OF FREE SURFACE WATER, MINOR HAND AND/OR MACHINE SHAPING TO FACILITATE WATER REMOVAL AND OTHER OPERATIONS TO SPEED DRYING.

5. ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MULCH, PEAT, BURIED DEBRIS, ETC.) IS TO BE EXCAVATED AND REPLACED WITH SUITABLE/COMPACTED SOILS AS DIRECTED BY CONTRACTOR'S SOILS TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS ARE TO BE BACK FILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED. CONTRACTOR WILL COORDINATE WITH VA SAFETY DEPARTMENT TO INSPECT EXCAVATION TO ENSURE SAFETY PRECAUTIONS ARE IN PLACE.

7. ALL NECESSARY FILL AND EMBANKMENT THAT IS PLACED DURING CONSTRUCTION SHALL CONSIST OF MATERIAL SPECIFIED BY THE CONTRACTOR'S SOILS TESTING COMPANY AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS.

8. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADES, UNLESS OTHERWISE NOTED.

9. *IT MAY BE NECESSARY TO FIELD ADJUST PAVEMENT ELEVATIONS TO PRESERVE THE ROOT SYSTEMS* OF TREES SHOWN TO BE SAVE. CONTRACTOR TO COORDINATE WITH OWNER'S COTR PRIOR TO ANY ELEVATION CHANGES.

10. CONTRACTOR SHALL TRIM, TACK AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.

11. ALL TRAFFIC CONTROL PAVEMENT MARKINGS SHALL BE MADE IN ACCORDANCE WITH LOCAL AND/OR STATE STANDARDS.

12. THE CONTRACTOR WILL STABILIZE BY SEED AND MULCH, SOD, OR OTHER APPROVED MATERIALS ANY DISTURBED AREAS WITHIN ONE WEEK FOLLOWING CONSTRUCTION OF THE UTILITY SYSTEMS AND PAVEMENT AREAS. CONTRACTOR SHALL MAINTAIN SUCH AREAS UNTIL FINAL ACCEPTANCE BY OWNER. CONTRACTOR TO COORDINATE WITH OWNER REGARDING TYPE OF MATERIAL, LANDSCAPING, AND IRRIGATION REQUIREMENTS.

13. THE CONTRACTOR SHALL RESTORE OFF-SITE CONSTRUCTION AREAS TO CONDITIONS EQUAL TO OR BETTER THAN THOSE EXISTING PRIOR TO START OF CONSTRUCTION.

14. UNLESS OTHERWISE NOTED, GRADE TO MEET EXISTING ELEVATION AT PROPERTY LINES.

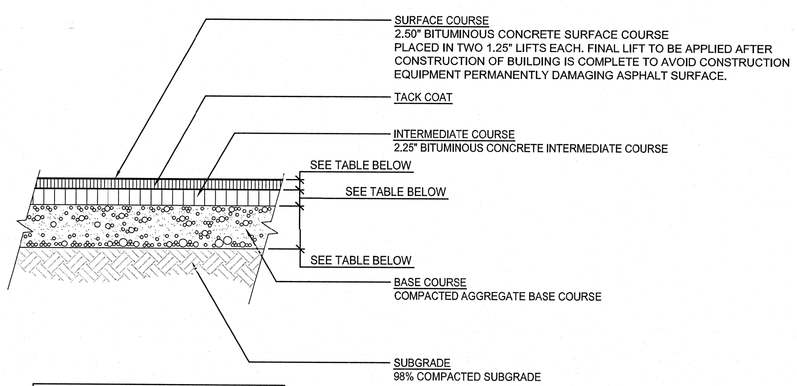
15. SURVEY MONUMENTS OR BENCHMARKS WHICH HAVE TO BE DISTURBED BY THIS WORK SHALL BE REPLACED UPON COMPLETION OF WORK BY A REGISTERED LAND SURVEYOR.

16. FINAL GRADES SHOWN INCLUDE SOD HEIGHT. ALL AREAS SHALL BE GRADED TO DRAIN AWAY FROM THE BUILDINGS.

LOCATION OF UNDERGROUND UTILITIES

1. CONTRACTOR CANNOT RELY ON AVAILABLE VA AS-BUILT DRAWINGS TO IDENTIFY ALL EXISTING UNDERGROUND UTILITIES. PRIOR TO ANY EXCAVATION, CONTRACTOR IS REQUIRED TO MAKE SURE THAT THE LOCATION OF ALL UNDERGROUND UTILITIES IN EXCAVATION SITES IS ACCURATELY DESIGNATED. CONTRACTOR SHALL PROVIDE A COMPREHENSIVE REPORT ON ALL UNDERGROUND UTILITIES, WHICH MUST INCLUDE SURVEY GROUND MARKS LAID OUT AND AN ILLUSTRATION OF JOB-SITE SHOWING UNDERGROUND UTILITIES. THE UTILITY LOCATION & COORDINATION UNIFORM COLOR CODE MUST BE USED FOR THE GROUND MARKS AND ILLUSTRATIONS. DAMAGE TO UNDERGROUND UTILITIES AS A RESULT OF CONTRACTOR'S EXCAVATION ACTIVITY SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.

2. IT MAY BE NECESSARY FOR CONTRACTOR TO EMPLOY THE SERVICES OF A SUBSURFACE UTILITY ENGINEERING FIRM TO CONDUCT SURVEYS TO LOCATE ALL UNDERGROUND UTILITIES IN AREA TO BE EXCAVATED. SUCH SURVEYS MIGHT UTILIZE GEOPHYSICAL PROSPECTING TECHNIQUES AND ELECTROMAGNETICS. IN SOME CIRCUMSTANCES THESE CONVENTIONAL METHODS DO NOT PRECISE LOCATE THE UTILITIES, IN WHICH CASE THE FOLLOWING ADDITIONAL MEANS MAY BE UTILIZED: TV8 VIDEO PIPE INSPECTION, GROUND PENETRATING RADAR (FOR NON-METALLICS), AND VACUUM EXCAVATION.



ASPHALT PAVING NOTE	
1. SURFACE COURSE 1-2 SURFACE COURSE	2.5"
2. INTERMEDIATE COURSE HB BINDING COURSE	2.25"
2. BASE COURSE C.A.B.C.	8"

NOTES:
1. GEOTECHNICAL ENGINEER SHALL REVIEW AND APPROVE ASPHALT PAVEMENT DESIGN PER ACTUAL SOIL CONDITIONS AND OWNERS LOADING REQUIREMENTS.

2. HEAVY DUTY ASPHALT PAVEMENT SHALL BE PROVIDED FOR ALL FIRE APPARATUS ACCESS ROADS AND DESIGNED TO SUPPORT AN 80,000LB LOAD.

2 C-102 HEAVY DUTY ASPHALT PAVEMENT DETAIL

SCALE: N.T.S.

100% CONSTRUCTION DOCUMENTS

Revisions	Date

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Professional Stamp/Seal
COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
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No. 35538-E

Drawing Title	LAYOUT & DRAINAGE PLAN AND DETAIL
Project Title	COATESVILLE - VA MEDICAL CENTER A/E INSTALL EMERGENCY GENERATOR
Date	9/23/11
Project No.	542-11-104
Drawn	DSK
Checked	TMG
Building Number	---
Location	COATESVILLE, PENNSYLVANIA
DRAWING No.	C-102
	Dwg. 2 Of 3

VA

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