E REMEDIATION TO A F.
OJECT INCLUDES REMOVING EXCA
SLIPPED, PROVIDE EXCA
SLIPPED, PROVIDE EXCA
JR AND INSTALATION OF
ATION. REMOVAL OF SE
OWN AS 925 SF. THIS
OWN AS 9

EXISTING CONDITIONS
THE UPSTREAM AREAS AND DOWNSTREAM AREAS HAVE BEEN DEVELOPED WITH RESIDENTIAL HOUSES. THE THE UPSTREAM AREAS AND DOWNSTREAM AREAS HAVE BEEN DEVELOPED WITH RESIDENTIAL HOUSES. THE CHANNEL HAS BEEN STABILIZED IN THE PAST USING GABION BASKETS; HOWEVER, THE BASKETS HAVE FAILED OR SLIPPED INTO THE CHANNEL. THIS PLAN REMEDIATES THE CURRENT CONDITION. THE EXISTING CHANNEL IS SHOWING SIGNS OF SCOUR, AS THE EXISTING CHANNEL DOES NOT HAVE POSITIVE DRAINAGE IN A LONGITUDINAL DIRECTION. THE CHANNEL HAS AN IDENTIFIED FLOODWAY OF 9 FEET AS DENOTED ON A SUBDIVISION PLAT. CT IS PHASED TO PROVIDE A DEDINARY HIGH WATER SITUATIONS.
TO ADEQUATE MEASURES. THE ACCORDANCE WITH THE VIRGINIA I DRY CONSTRUCTION AREA DURING CONSTRUCTION, / EROSION & SEDIMENT CO A AND TRANSPORT THE ACTIVE STREAM
I, ALL SEDIMENT LADEN RUNOFF WILL BE
CONTROL MEASURES SHOWN HERE ARE
CONTROL HANDBOOK (VA ESCH).

 φ † O₩ OW 2 SHET

O THE SITE TO BE PLACED III

-SITE IN AMOUNTS NOT REC N RESULTS IN SOIL N IN THE GABION BAS EQUIRING A SITE PLA MATERIAL BEING HAULED OFF-SITE AND STONE BEING ASKETS. THE LIMITED AMOUNT OF MATERIAL CAN BE LAN, OR SHOULD BE HAULED TO AN APPROVED SITE.

NCE IS DIRE NTARY, BY NLAY, WITH S ND 8 FEET. OFF-SITE. ILIMINARY REPORT RT NO. 12:7260. ROCK FRAGMENTS. EING EXCAVATED IS EXPLORATION AND GEOTECHNICAL HOW THE SOIL TO BE ORANGE—BROWN . WAS DENOTED AT DEPTHS BETWEEN CONSTRUCTION MEASURES AND WILL BH 一;

ON CONDITIONS WILL S RANGING FROM 1 PTURE SEDIMENT L

WILL BE ENCOUNTER
M 1:1 TO 3:1 ARE
T LADEN RUNDET.

TERED DURING GRADING OPERATIONS AS FOLL RE UPLAND OF THE CONSTRUCTION AREA.

THIS PROJECT WILL FLATTEN SLOPES AND

SHALL BE TAKEN TO CAPTI
THE EXISTING SLOPES.

- STABILIZATION OF LARGE DIAMETER ROCK. EROSION AND SEDIMENT STABILIZATION, AND 之五 SE E BOTON TP MEASURES EXISTING ASS H ARE INTENDED TO STREAM WITH E S F 9 RIPRAP POSITIVE BASKETS, FILLED WITH OF SIMILAR DIAMETER ANY POTENTIAL FLOW DURING

EROSION AND SEDIMENT CONTROL MEASURES
UNLESS OTHERWISE STATED ALL EROSION A
MAINTAINED IN ACCORDANCE WITH MINIMUM
"VIRGINIA EROSION AND SEDIMENT CONTROL I AND SEDIMENT CONTROL ME STANDARDS AND SPECIFICA HANDBOOK". EASURES S SHALL BE CONSTRUCTED THE LATEST EDITION OF

STRUCTURAL PRACTICES

TEMPORARY CONSTRUCTION ENTRANCE (3.02) - A STONE AND EGRESS ON A CONSTRUCTION SITE, TO REDUCE THE PAVED AREAS. A TEMPORARY CONSTRUCTION ENTRANCE HON THE DRAWINGS. LI FENCE (3.05) - A TEMPORARY SEDIMENT BARRIER CONSTRUCTED OF POSTS, FILTER FABRIC AND, IN SOME ASES, A WIRE SUPPORT FENCE, PLACED ACROSS OR AT THE TOE OF A SLOPE OR IN A MINOR DRAINAGE WAY ASES, A WIRE SUPPORT FENCE, PLACED ACROSS OR AT THE TOE OF A SLOPE OR IN A MINOR DRAINAGE WAY DELICABLE WHERE SHEET AND RILL EROSION OR SMALL CONCENTRATED FLOWS MAY BE A PROBLEM. MAXIMUM FECTIVE LIFE OF 6 MONTHS. SILT FENCE WILL BE USED ON THIS PROJECT AND IS SHOWN ON THE DRAWINGS. HE SILT FENCE LOCATIONS ARE DESIGNED TO CAPTURE LIMITED FLOW AREAS FROM DISTURBED AREAS.

LITERNATIVE MEASURES SUCH AS UTILITY STREAM CROSSING IS ANTICIPATED TO COLLECT LARGER DRAINAGE / STURBED AREAS FOR THIS PROJECT. DEWATERING WITHIN THE CONSTRUCTION AREA SHOULD BE ANTICIPATED. AD, LOCATED AT F IL TRANSPORTED (3 BEEN INCLUDED POINTS OF VEHICULAR ING ONTO PUBLIC ROADS AND IN THIS PROJECT AND IS RESS OTHER SHOWN

RIP RAP (3.19) - A PINSTALLED WHEREVER :
ARE SUCH THAT SOIL STREAM CROSSING (3.25) - A STRATEGY FOR CROSSING SMALL WATERWAYS WHEN IN-STREAM UTILITY RUCTION IS INVOLVED. THE STRATEGY HELPS TO PREVENT SEDIMENT FROM ENTERING THE AFFECTED COURSE AND MINIMIZES THE AMOUNT OF DISTURBANCE WITHIN THE STREAM ITSELF.

STREAM CROSSINGS IS PLANNED FOR THIS PROJECT. FLUME PIPE PROTECTION IS SHOWN ON THE AND PHASED TO TRANSPORT FLOW WITHIN THE CHANNEL AROUND SMALLER CONTROLLED CONSTRUCTION STREAMBANK STABILIZATION (3.23)
MEASURES TO PROTECT THEM FROM
PASS INCREASED FLOWS DUE TO UP
STREAMBANK STABILIZATION WILL BE PERMANENT, EROSION-RESISTANT GROUND COVER OF LARGE, LOOSE, ANGULAR STONE SOIL CONDITIONS, WATER TURBULENCE AND VELOCITY, EXPECTED VEGETATIVE COVER, ETC. MAY ERODE UNDER DESIGN FLOW CONDITIONS. RIP RAP IS PLANNED FOR THIS PROJECT. - STABILIZING THE BANKS OF LIVE STREAMS WITH PERMANENT EROSION. PARTICULARLY APPLICABLE TO WATERCOURSES STREAM DEVELOPMENT; NOT APPLICABLE TO TIDAL STREAMS. USED ON THIS PROJECT.

DEWATERING STRUCTURE (3.26) — A TEMPORARY SETTLING AND FILTERING DEVICE FOR WATER WHICH IS DISCHARGED FROM DEWATERING ACTIVITIES. A DEWATERING STRUCTURE WILL BE USED ON THIS PROJECT. UNDER INITIAL DEVELOPMENT ALONG LANDFAIR DRIVE, A DIVERSION DIKE WILL BE UTILIZED TO DIRECT FLOW THE EXISTING CULVERT DURING CONSTRUCTION. AT SOME POINT DURING CONSTRUCTION, THE NEW CULVERT WILL BE UTILIZED TO TRANSPORT FLOW. WHILE CULVERT INLET PROTECTION IS IN PLACE, LIMITED FLOW WILL TRANSPORTED. PRIOR TO REMOVAL OF THE CULVERT INLET PROTECTION, A DEWATERING DEVICE WILL BE UTILIZED TO DRAIN THE UPSTREAM AREA. ੋਰ BΕ

TEMPORARY SEEDING (3.31) — ESTABLISHMENT OF TEMPORARY VEGE WILL NOT BE BROUGHT TO FINAL GRADE FOR PERIODS OF 30 DAYS APPROPRIATE RAPIDLY-GROWING PANTS. TEMPORARY SEEDING WILL TIMING OF THE PROJECT AND IS SHOWN ON THE PLAN. ETATIVE COVER
TO ONE YEAR
MOST LIKELY 明明の DISTURBED
SEEDING WITH AREAS TH DUE TO 10

\2013 Projects\13-0108 Fairway Estates Wall Repair\6 DWG\13-0108-02 Site Plan.dwg, C05 ESC Narrative, 11/13/2013 7:06:33 PM, DWG To PDF-No Layers.pc3, 1:

GRMANENT SEEDING OUGH-GRADED AREA ERMANENT, LONG-LIV E USED ON ALL FINIT 2) - ESTABLISHMENT OF PERENN HAT WILL NOT BE BROUGHT TO F VEGETATIVE COVER IS NEEDED O AREAS. ENNIAL VEGETATIVE (O FINAL GRADE FOR) ON FINE—GRADED / COVER BY R A YEAR AREAS. RY PLANTING SEED ON ROORE OR WHERE PERMANENT SEEDING

MULCHING (3.35) — APPLICATION OF PLANT RESIDUES OR OTHER SUITABLE SURFACES TO PREVENT EROSION AND REDUCE OVERLAND FLOW VELOCITIES BY INCREASING AVAILABLE MOISTURE AND PROVIDING INSULATION AGAINST SHOULD BE APPLIED TO ALL SEEDING OPERATIONS, THEMSELVES, AND BABE SEEDED DUE TO THE SEASON BUT WHICH STILL NEED PROTECTION MULCHING IS PLANNED FOR THIS PROJECT. BLE MATERIALS TO DISTURBED TIES. FOSTERS PLAN GROWTH UST EXTREME HEAT OR COLD. BARE AREAS WHICH CANNOT ON TO PREVENT SOIL LOSS.

SOIL STABILIZATION BLANKETS AND MATTING (3.36) - THE INSTALLATION OF A F (TREATMENT) OR A SOIL STABILIZATION MAT (TREATMENT 2) ON A PREPARED F CHANNEL OR SHORELINE. SOIL STABILIZATION BLANKETS AND MATTING WILL BE SHOWN ON THE DRAWINGS. THE USE OF HYDROMULCHING IS ALSO SPECIFIED IN A PROTECTIVE BLANKET

O PLANTING OF A STEEP SLO

BE USED ON THIS PROJECT /

IN THE DETAILED SPECIFICA:

PERMANENT VEGETATION SHAL UNIFORM AND MATURE ENOUGH A MINIMUM OF ONE FULL YEAR ESPECIALLY LATE IN THE SEASE ACCOMPLISHED IN ACCORDADAND SEDIMENT CONTROL PLAN.

STORMWATER CONSIDERATIONS
THE AREA IS DEVELOPED WITH
WALL. THE EXISTING CHANN
PUBLISHED 100-YEAR FLOOD
MANAGEMENT AND LOWERS TO
DISTURBED AREA. NO ADDITION

CONSTRUCTION WILL BE REMEDIAL STORM SEWER 걸

SPECIFIC _OPES

FLUME PI OVED FROM MEASURES PRIOR TO SEDIMENT REACHING PE STONE BARRIER.

2.FLUME PIPE STONE BARRII NOT BEEN UNDERMINED OF HALFWAY UP THE BARRIEF GRASS SILT FENCE SHALL BE CH DETERIORATED. SEDIMENT S.≨ /HICH HAVE RECE S MAINTAINED. AI REIVED SEEDING SHALL BE CHECKED REGULARLY TO ENSURE THAT A GOOD REAS SHALL BE FERTILIZED AND RESEEDED AS REQUIRED. RIER SHALL BE CHECKED REGULARLY TO ENSURE THAT THE FABRIC OR DETERIORATED. SEDIMENT SHALL BE REMOVED WHEN LEVEL OF ER.

7.ONCE THE SITE HAS BEEN REMOVED AND THOSE ARE. WITHIN 30 DAYS AFTER FIN UNLESS OTHERWISE AUTHO REQUIRE ROANOKE COUNTY B. THE SILT FENCE SHALL B ARE STABILIZED AND PERN TO DEWATER SEDIMENT LAI A STABLE SLOPE AND PERGABION BASKETS SHALL R

AT A MINIMUM,

7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY PROPERTY AT THE END OF EACH DAY'S WORK.

10. WHILE THE ENGINEER, PARKER DESIGN GROUP, HAS PREPARED THE QUALITY OF THE WORK OR EROSION CONTROL METHODS PERFORMED BY EROSION & SEDIMENT CONTROL MINIMUM STANDARDS

N/A = NOT APPLICABLE TO THIS PROJECT

TEMPORARY STABILIZATION SHALL BE APPLED MININ SEVEN (?) DAYS TO DENUDED A TEMPORARY STABILIZATION SHALL BE APPLED TO DAYS TO DENUDED AND PROVIDED ON PLAN.

STABILIZATION SHALL BE APPLED TO ALL AREAS THAT ARE TO BE ORNAW AREAS THAT ARE TO DEFEND ON THE PLAN.

NAM MAS A STEMBENT THAT AREAS AND SEMMENT BASINS SHALL BE DESIGNED AND CONSTRUCTION OF ANTICIPATED FOR THIS PROJECT.

NAM MAS A STEMBENT THAT AREAS AND SEMMENT BASINS SHALL BE DESIGNED AND CONSTRUCTION ANTICIPATED FOR THIS PROJECT.

NAM MAS A STEMBENT THAT AREAS AND SEMMENT BASINS SHALL BE DESIGNED AND CONSTRUCTION ANTICIPATED FOR THIS PROJECT.

NAM MAS A STEMBENT THAT AREAS AND SEMMENT BASINS SHALL BE DESIGNED AND CONSTRUCTION AND FILL ALL ADDITIONAL SLOPES UNLESS CONSTRUCTIONS TO THE EXTRIBUTION SHALL BE DESIGNED AND CONSTRUCTION AND FILL AND FILL ALL ADDITIONAL SLOPES UNLESS CONSTRUCTION. SHALL BE DESIGNED AND AS A DEPENDENT OF THE EXTRIBUTION SHALL BE DESIGNED AND ASS A DEVENTANCE CHANNEL. ON THE PLAN AND FILL ALL ADDITIONAL SLOPES UNLESS CONSTRUCTION AND FILL AND FILL ALL ADDITIONAL SLOPES UNLESS CONSTRUCTION AND FILL AND AND ASS A DEVENTANCE ON THE PLAN AND FILL AND FILL AND ADDITIONAL SLOPES UNLESS CONSTRUCTION AND FILL AND ADDITIONAL SLOPES WALL BE DURING CONSTRUCTION OF THE EXAMINED TO AND ASS A DATE AND A LIVE WATERCOURSE BY CONSTRUCTION AND ADDITIONAL SLOPES WALL BE DURING CONSTRUCTION AND ADDITIONAL SLOPES WALL BE DURING CONSTRUCTION AND ADDITIONAL SLOPES WALL BE DONE FROM THE CONSTRUCTION WORK IN A LIVE WATERCOURSE MAST BE CROSSED BY CONSTRUCTION WORK IN A LIVE WATERCOURSE WAS A SHALL BE STABLI ROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS OF ALL SOIL STOCKPILES ON SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM PILING IS ANTICIPATED DUE TO LIMITED DEPTH AND SPACE.

REAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ENOUGH TO SURVIVE AND WILL INHIBIT EROSION. ADDRESSED IN THE NARRATIVE. MEASURES SHOWN ON THE PLAN.

REFERENCE IS DIRECTED TO PLAN SHEETS FOR SITE DEPICTING EROSION LAN IN ACCORDANCE TO THE VA ESCH, HE CONTRACTOR OR SUBCONTRACTOR.

8. FOR THE EROSION CONTROL KEY SYMBOLS SHOWN ON THE PLANS, REF ADEQUATELY PROTECTED AGAINST EROSION, FER TO THE VIRGINIA UNIFORM CODING LATEST EDITION. FOR EROSION AND

TO FLOW TO LOCATIONS ADEQUATE PROTECTION HAS

SITE UNTIL ATION OR PERMIT HAS BEEN OBTAINED MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL

THE PLAN SHALL BE PLACED IN ADVANCE OF WORK BEING PERFORMED

EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON

CHECKED BY DRAWN BY November 2013 As Shown REC/PJB

3.09

TEMPORARY DIVERSION DIKE

3.28

SUBSURFACE DRAIN

ROUGHENING

3.27

TURBIDITY CURTAIN

TEMPORARY

OF-WAY

3.30

TOPSOILING

RW FD PD

TEMPORARY SEDIMENT BASIN

TEMPORARY SLOPE DRAIN

3.34

BERMUDA GRASS AND ZOYSIAURASS ESTABLISHMENT

3.33

SODDING

CTION

VEYANCE

TEMPORARY

(SB) (SA) (DA)

PERMANENT

SEEDING

TEMPORARY SEEDING

(B)

(3)

3.08

CULVERT INLET PROTECTION

3.07

STORM DRAIN INLET PROTECTION

BRUSH BARRIER

(3333333)

3.25

UTILITY STREAM CROSSING

DEWATERING STRUCTURE

3.24

3.06

3.05

SILT FENCE

3.03

TEMPORARY GRAVEL
CONSTRUCTION ENTRANCE
CONSTRUCTION ROAD
STABILIZATION
STRAW BALE BARRIER

(3)

3.22

VEGETATIVE STREAMBANK
STRUCTURAL STREAMBANK

3.23

3.21

LEVEL SPREADER

3.20

ROCK CHECK DAMS

3.04

3.02

3.01

SYMBOL

<u>N</u>

FFV Homeowners' Assoc., Inc at 6534 Fairway Estates Drive Windsor Hills Magisterial District Roanoke County, Virginia

NOTED AND ADDRESSED. THE ARMY CORPS OF

REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NOT TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY AND SEDIMENTATION. ADDRESSED IN THE NARRATIVE. MEASURES SHOWN ON THE PLAN. SPECIFICATIONS

BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT HE ROAD SURFACE SHALL BE CLEANED THOROUGHLY A SEDIMENT DISPOSAL AREA. STREET WASHING SHALL E WELL AS TO LARGER LAND DISTURBING ACTIVITIES. A

E. PROJECT IS BELOW THRSHOLD.

S. EXCAVATED MATERIAL BEING HAULED OFF-S
THROUGH AN APPROVED SEDIMENT TRAPPIN
N PLAN. CONTRACTOR TO COMPLY.

TO COMPLY.

TO COMPLY.

TO COMPLY.

TO COMPLY.

PROMOTE STABILIZATION

CONTRACTOR TO COMPLY

Gabion Wall Remediation for

OR CROSSING LIVE WATERCOURSES SHALL BE MET. NOTED AND ALBELOW THE THRESHOLD REQUIREMENTS.

ORK IN THE WATERCOURSE IS COMPLETED. NOTED AND ADDRESSED.

G STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:

ECT IS BELOW THRSHOLD.

VATED MATERIAL BEING HAULED OFF-SITE..

AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARMOTERACTOR TO COMPLY.

SONALES

TRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR BASINS.

AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.

NO EXPLIENT TIMBAN

THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE LIZING MEASURES UNTIL THE PROBLEM IS CORRECTED. ADDRESSE

ERODING EXCESSIVELY WITHIN ONE YEAR ID IN THE NARRATIVE. MEASURES SHOWN ON

CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN THER PROTECTION SHALL BE PROVIDED

R PROTECTION SHALL BE PROVIDED.
SHALL BE PROTECTED SO THAT SEDIMENT LADEN WATER CANNOT ENTER THE SHALL BE PROTECTED SO THAT SEDIMENT LADEN WATER CANNOT ENTER THE NTICIPATED FOR THIS PROJECT.
ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED AND RECEIVING CHANNEL. GABION BASKETS ARE SHOWN TO PROTECT AGAINST SC.

ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR GABION BASKETS ARE SHOWN TO PROTECT AGAINST SCOUR OF THE EXISTING

AND STABILIZE MS. EARTHEN I

OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND DISTURBANCE TAKES PLACE. ADDRESSED IN THE NARRATIVE. MEASURES SHOWN ON THE PLAN. SPECIFICATIONS

SUCH AS DAMS,

BE ACCOMPLISHED , LATEST EDITION.