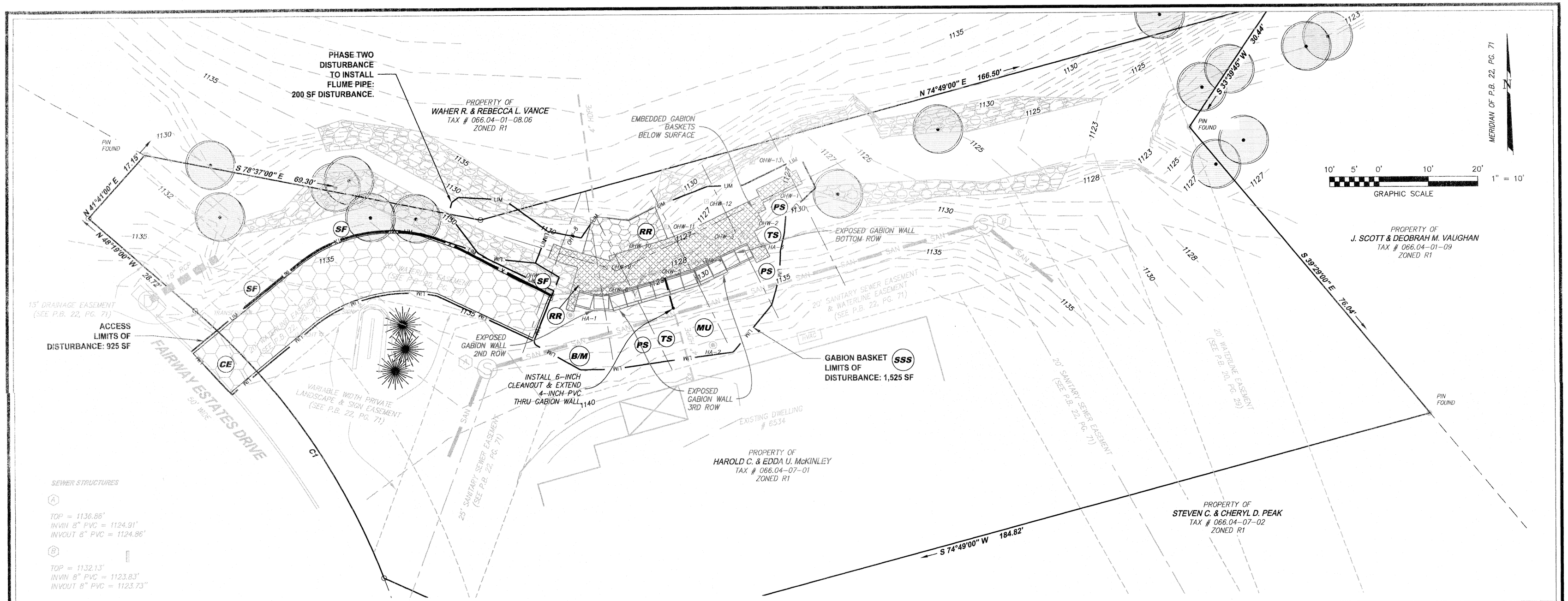


TOTAL EROSION AND SEDIMENT CONTROL MEASURES:

- (CE) CONSTRUCTION ENTRANCE MEETING VA ESCH STD. & SPEC. 3.02
- (SF) SILT FENCE MEETING VA ESCH STD. & SPEC. 3.05
- (RR) RIPRAP MEETING VA ESCH STD. & SPEC. 3.19
- (SSS) STRUCTURAL STREAMBANK STABILIZATION MEETING VA ESCH STD. & SPEC. 3.23
- (USC) UTILITY STREAM CROSSING (FLUME PIPE CROSSING) MEETING VA ESCH STD. & SPEC. 3.25
- (DS) DEWATERING STRUCTURE MEETING VA ESCH STD. & SPEC. 3.26
- (TS) TEMPORARY SEEDING MEETING VA ESCH STD. & SPEC. 3.31
- (PS) PERMANENT SEEDING MEETING VA ESCH STD. & SPEC. 3.32
- (MU) MULCHING MEETING VA ESCH STD. & SPEC. 3.35
- (B/M) SOIL STABILIZATION BLANKETS & MATTING MEETING VA ESCH STD. & SPEC. 3.36

ESC PHASED WORK

INITIAL PHASE OF EROSION & SEDIMENT CONTROL MEASURES (PH 1):
THE CONTRACTOR SHALL ESTABLISH A CONSTRUCTION ENTRANCE AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION ENTRANCE TO THE MINIMUM REQUIRED STANDARDS. THE CONTRACTOR SHALL KEEP EQUIPMENT ON SITE TO REMOVE ANY DIRT OR MUD FROM PAVED AREAS. ANY VEHICLE WHOSE WHEELS LEAVE THE EXISTING PAVEMENT SHALL UTILIZE THE CONSTRUCTION ENTRANCE. VEHICLES WHOSE WHEELS DO NOT LEAVE EXISTING PAVEMENT ARE NOT REQUIRED TO UTILIZE THE CONSTRUCTION ENTRANCE.

THE CONTRACTOR SHALL INSTALL SILT FENCE AS SHOWN ON THE PLANS ALONG THE PERIMETER OF THE CONSTRUCTION ENTRANCE.

THE CONTRACTOR SHALL REMOVE THE EXISTING FAILED GABION WALL.

THE CONTRACTOR SHALL INSTALL THE FLUME PIPE UTILITY STREAM CROSSING AS SHOWN IN PHASE 1. THE CALCULATED NORMAL FLOW WITHIN THE CHANNEL IS 18 CFS. A 24-INCH PIPE IS SHOWN TO TRANSPORT A MINIMUM OF 30 CFS IN ACCORDANCE WITH THE VA ESCH SPECIFICATIONS. THE FLUME PIPE SHALL INCLUDE STONE AND FILTER FABRIC AT THE UPPER AND LOWER END. DEWATERING WITHIN THE FLUME PIPE SHALL BE ANTICIPATED. WITH LIMITED CHANNEL WIDTH, COFFERDAM IS NOT A RECOMMENDED ALTERNATIVE.

THE CONTRACTOR SHALL INSTALL GABION BASKETS (WITHIN THE AREA THAT IS DRY BY UTILIZING THE FLUME PIPE) AS SHOWN ON THE PLANS TO PROVIDE SCOUR PROTECTION AND SLOPE PROTECTION IN ACCORDANCE WITH VA ESCH STD. & SPEC. 3.23.

ONCE GABION BASKETS ARE INSTALLED IN THE PHASE 1 AREA, CONTRACTOR SHALL STABILIZE UPLAND DISTURBED AREAS WITH TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, AND PERMANENT STABILIZATION MEASURES AS NOTED.

THE CONTRACTOR SHALL DEWATER THE PHASE 1 AREA AND REMOVE ANY LOOSE SEDIMENT.

THE CONTRACTOR SHALL INSTALL THE FLUME PIPE UTILITY STREAM CROSSING AS SHOWN IN PHASE 2. THE OUTFALL IS ONTO THE INSTALLED GABION BASKETS OF PHASE 1.

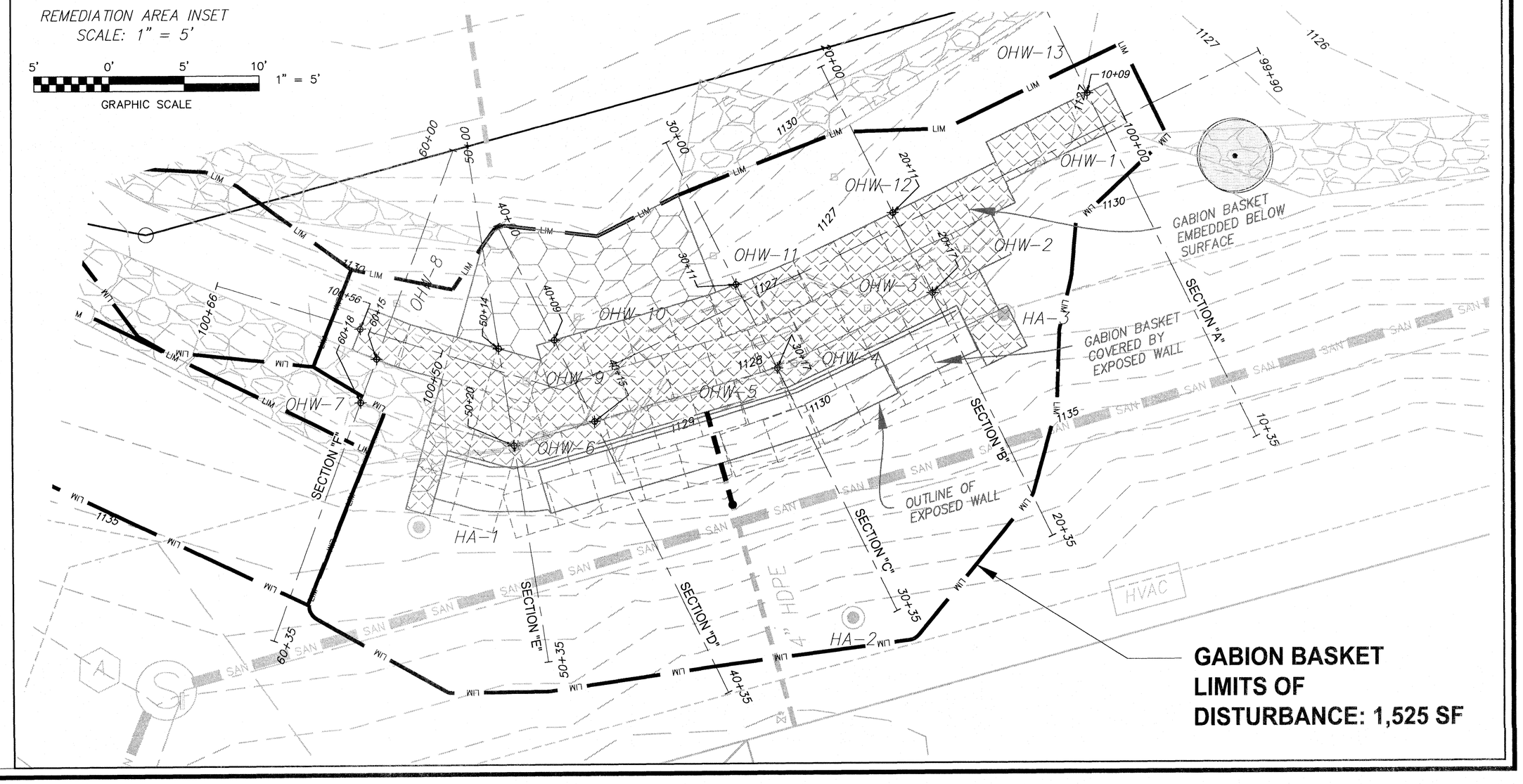
THE CONTRACTOR SHALL INSTALL GABION BASKETS AS ALLOWED WITHIN PHASE 2 FLUME PIPE WORK AREA.

THE CONTRACTOR SHALL STABILIZED DISTURBED SLOPES BEYOND THE GABION BASKETS WITH RIPRAP, BLANKET MATTING, TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, AND PERMANENT VEGETATION AS SHOWN ON THE PLANS.

THE CONTRACTOR SHALL CHECK AND VERIFY ALL EXISTING PERIMETER EROSION AND SEDIMENT CONTROL MEASURES AROUND THE ENTIRE SITE. ANY PERIMETER EROSION CONTROL MEASURES THAT ARE DAMAGED SHALL BE REPAIRED TO CONTROL SEDIMENT LADEN RUNOFF FROM ENTERING ADJACENT PROPERTIES AND/OR STREAMS AND SWALES. IN ANY AREAS WHERE SEDIMENT LADEN WATER IS BEING PUMPED FROM A LOCATION, THE PUMPED RUNOFF SHALL BE FILTERED THROUGH A "FILTER BAG" BEFORE BEING RELEASED DOWNSTREAM.

THE CONTRACTOR SHALL KEEP MATERIALS AND EQUIPMENT ON-SITE TO KEEP DUST LEVELS AT A MINIMUM.

REMEDIATION AREA INSET
SCALE: 1" = 5'
GRAPHIC SCALE



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COMMONWEALTH OF VIRGINIA
PAUL J. BROWN
Lic. No. 036148
PROFESSIONAL ENGINEER
11/14/2013

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

REVISIONS:

DESIGNED BY:	REC/PJB
DRAWN BY:	REC/PJB
CHECKED BY:	SRB
SCALE:	1"=10'
DATE:	14 November 2013

SHEET TITLE:

Remediation Plan

C03
03 OF 06
PROJECT NUMBER:
13-0108-04

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Drwg: C03 REMEDIATION PLAN