



Fort George G. Meade

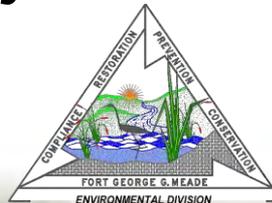
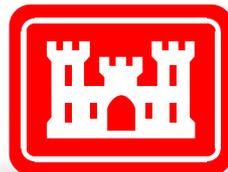


Restoration Advisory Board (RAB) Meeting September 15, 2016

Remedial Design/Work Plan: Lead Hot Spot Site

Architect of the Capitol (AOC) Parcel Addendum Three to: Uniform Federal Policy Quality Assurance Project Plan (UFP-QAPP)

AECOM



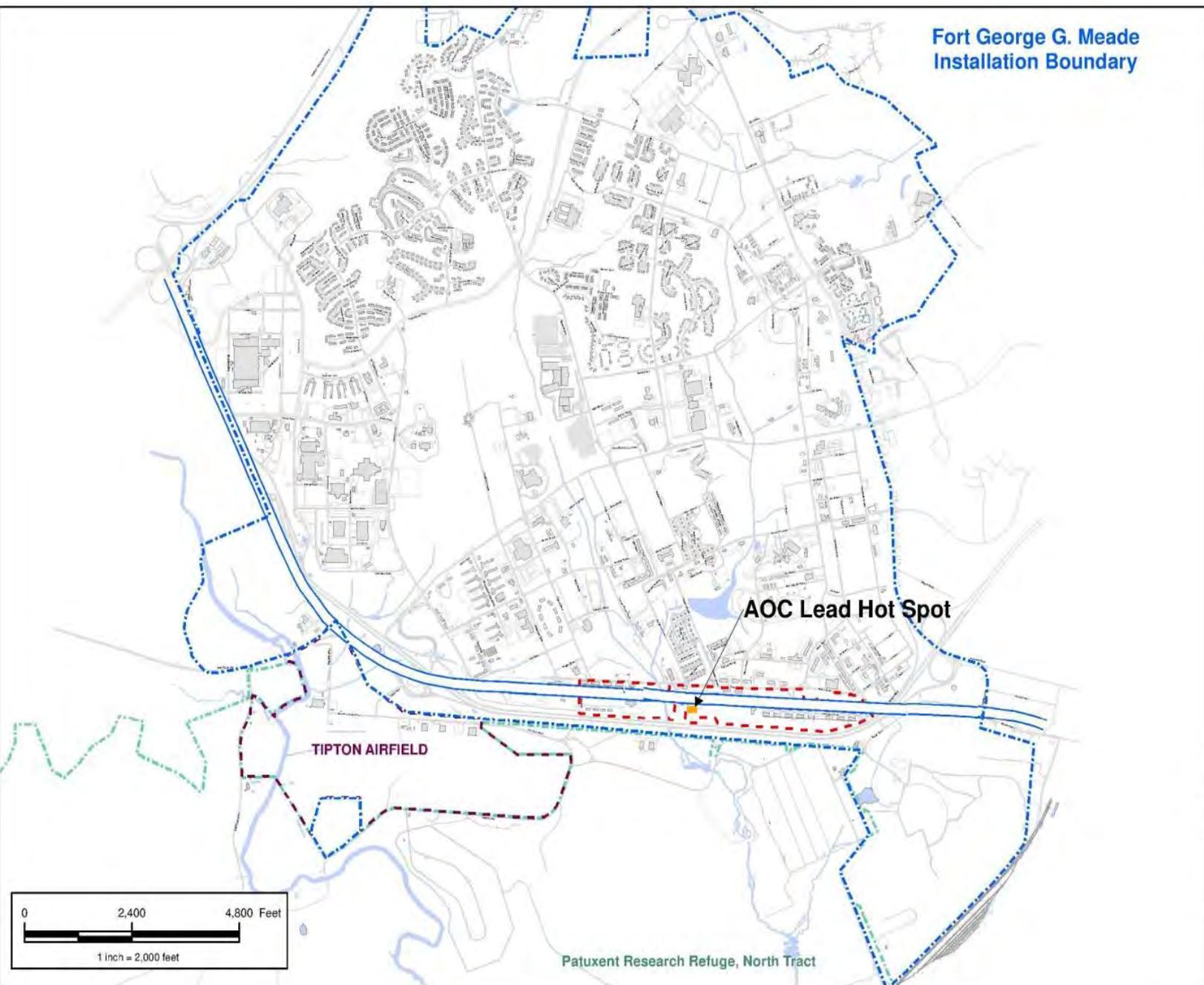
ARMY STRONG.™

Fort George G. Meade Installation Boundary



Legend

-  Architect of the Capitol (AOC) Soil Lead Hot Spot
-  Installation Boundary
-  Architect of the Capitol Property
-  Old Railroad Property
-  Patuxent Research Refuge
-  Airfield
-  Road



CLIENT	LOCATION
USACE, Baltimore District	Fort George G. Meade, MD

G:\Projects\Fort_Meade\FA_S_Rev\Project\CERCLA
 CERCLA_Architect_of_Capitol_Site.mxd
 DATE: 11/09/15 10:52:04
 GIS: ABB
 CIO: JC



12420 Milestone Center Drive
 Germantown, MD 20876

Figure 2-1

Location of AOC
 Soil Lead Hot Spot



Lead Hot Spot History

- Multiple phases of CERCLA environmental investigations and sampling at the AOC parcel since late 1980s
- Soil Lead Hot Spot identified during soil sampling during FGGM-74 direct-push sampling
- Soil Lead Hot Spot delineated during two follow-on investigations



Proposed Plan and ROD



- The ROD reiterates the Proposed Plan selected remedy: “*Hot Spot Soil Excavation with Offsite Disposal*”
- Remedy will result in no unacceptable risk under future residential and non-residential land use scenarios
- Groundwater is being investigated as part of Operable Unit 4 (OU-4) (FGGM-47)

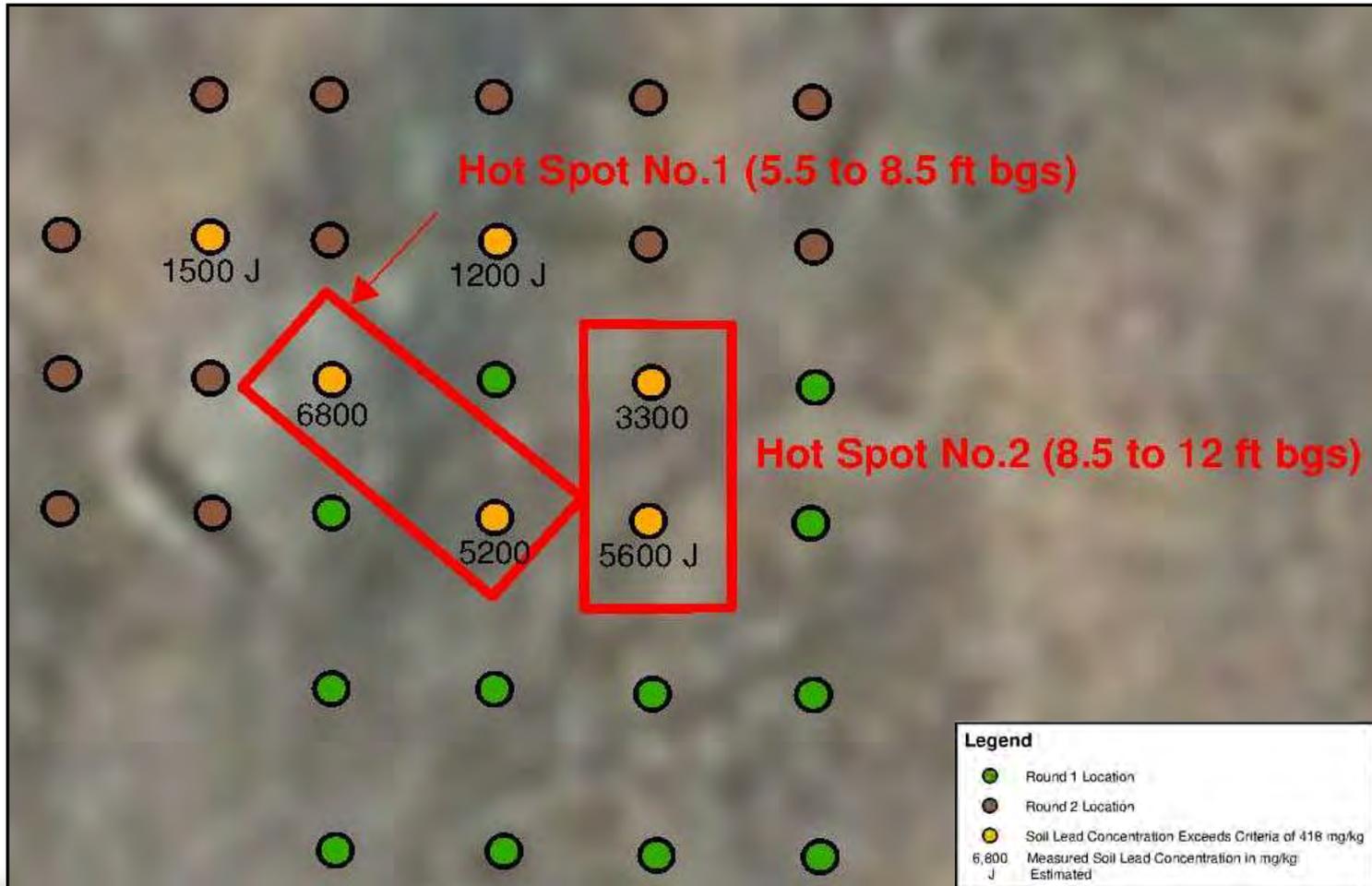
Site History:

- Initial DPT soil lead (3,350 mg/kg)
- Direct push soil boring locations installed during two phases during 2010/2011
- Also analyzed VOCs, SVOCs, metals, pesticides and PCBs; none pose unacceptable risk





Hot Spot Locations





Proposed Excavation

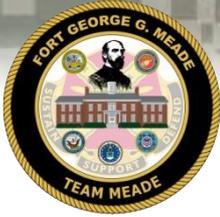
Table 3-1: Excavation boundaries, Dimensions and Volumes

Hot Spot ID	Boring	Coordinates	Depth (ft) to Excavation Boundaries			Excavation Dimensions & Volume			
			Top	Middle	Bottom	Width	Length	Disposal Volume (in-situ)	Overburden Volume (in-situ)
No. 1	AOC-GP-01	N: 518016.3	5.5	7 (a)	8.5	10 ft	20 ft	22 yds ³	41 yds ³
		E: 1387091.1							
	AOC-GP-06	N: 518004.2							
		E: 1387100.0							
No. 2	AOC-GP-09	N: 518015.9	8.5	10 (b)	12	10 ft	20 ft	26 yds ³	63 yds ³
		E: 1387112.5							
	AOC-GP-10	N: 518004.3							
		E: 1387113.5							

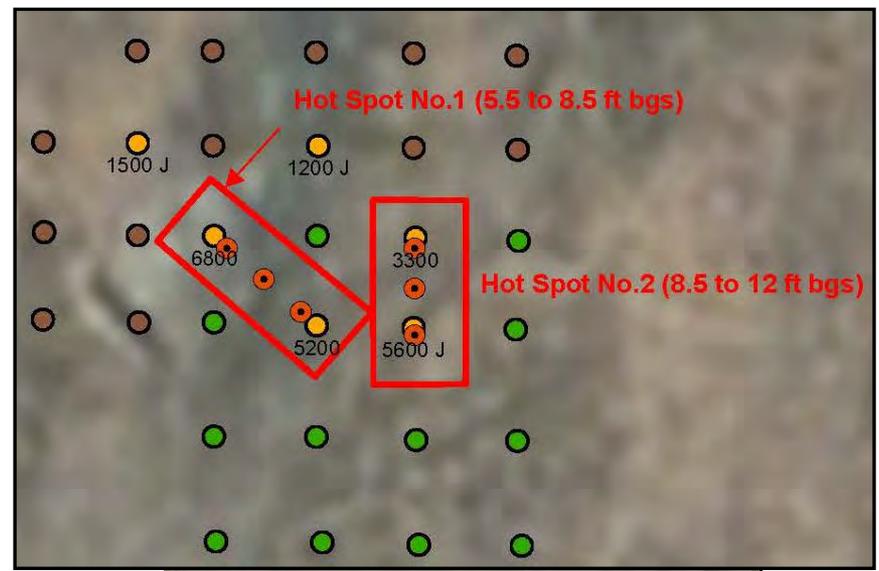
(a) Depth from which a contaminated soil sample was collected from DPT borings AOC-GP-01 & 06.

(b) Depth from which a contaminated soil sample was collected from DPT borings AOC-GP-09 and 10.





Pre-Excavation Characterization



Legend	
	Proposed Direct Push Sample Location
	Round 1 Location
	Round 2 Location
	Soil Lead Concentration Exceeds Criteria of 418 mg/kg
	Work Area
6,800	Measured Soil Lead Concentration in mg/kg
J	Estimated





Work zone areas and Hot Spot Nos. 1 and 2 which are to be excavated



Erosion and Sediment Control (E&SC) Plan



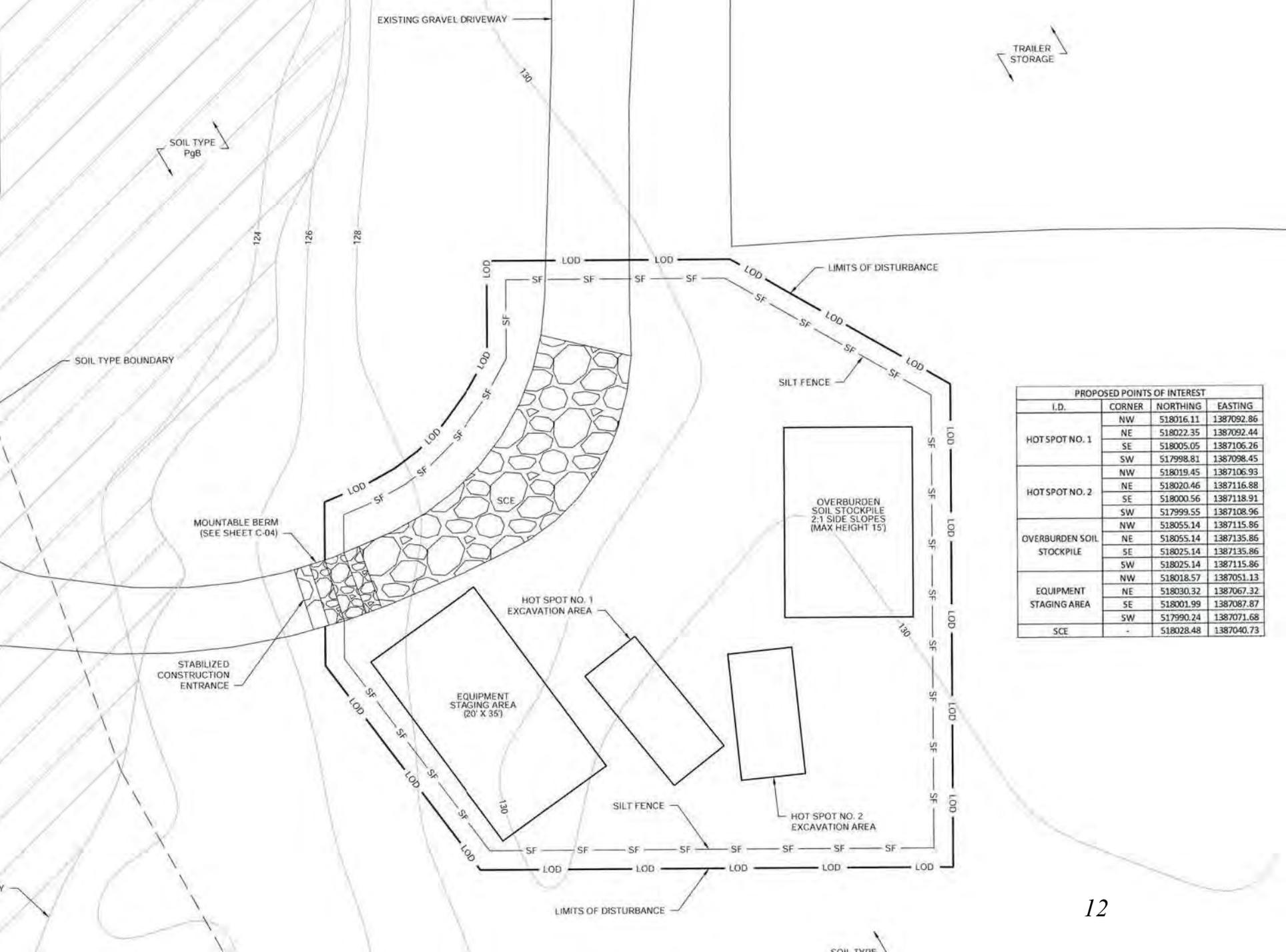
- Uncontaminated (overburden) soil will be made stable by covering it with plastic sheeting at the completion of each work day, thus minimizing exposure to it and stabilizing it from erosion.
- Contaminated soil removed from the excavation will be directly loaded on to trucks for offsite disposal.



Erosion Controls

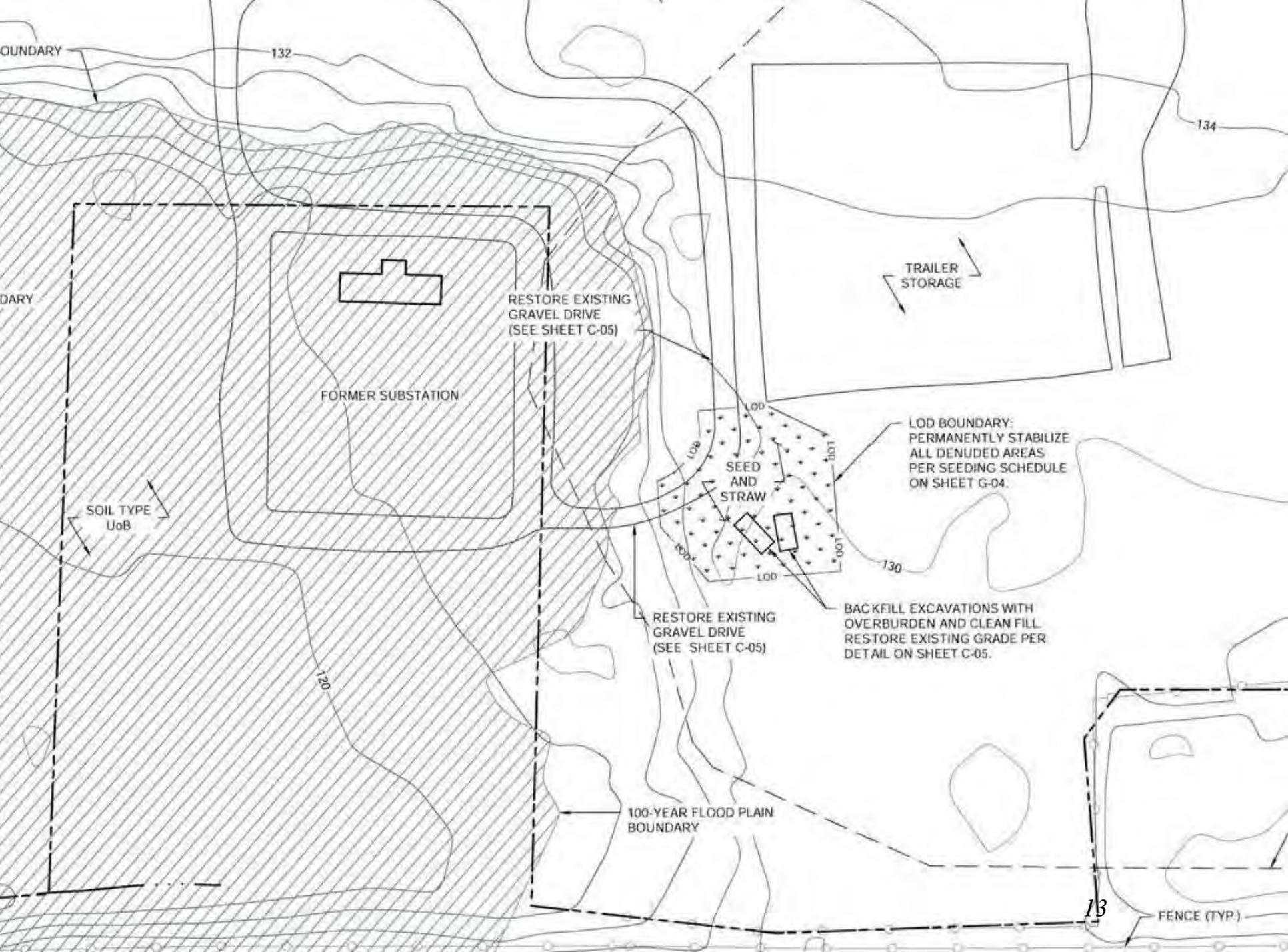
- Relatively flat topography
- Erosion controls will be silt fencing placed around the down-gradient and side-gradient portions of the excavation area and the excavated soil stockpiles
- No requirement for dewatering is anticipated





PROPOSED POINTS OF INTEREST

I.D.	CORNER	NORTHING	EASTING
HOT SPOT NO. 1	NW	518016.11	1387092.86
	NE	518022.35	1387092.44
	SE	518005.05	1387106.26
HOT SPOT NO. 2	SW	517998.81	1387098.45
	NW	518019.45	1387106.93
	NE	518020.46	1387116.88
OVERBURDEN SOIL STOCKPILE	SE	518000.56	1387118.91
	SW	517999.55	1387108.96
	NW	518055.14	1387115.86
EQUIPMENT STAGING AREA	NE	518055.14	1387135.86
	SE	518025.14	1387135.86
	SW	518025.14	1387115.86
SCE	NW	518018.57	1387051.13
	NE	518030.32	1387067.32
	SE	518001.99	1387087.87
SCE	SW	517990.24	1387071.68
	-	518028.48	1387040.73



BOUNDARY

132

134

DARY

TRAILER STORAGE

RESTORE EXISTING GRAVEL DRIVE (SEE SHEET C-05)

FORMER SUBSTATION

SOIL TYPE UoB

LOD BOUNDARY: PERMANENTLY STABILIZE ALL DENUDED AREAS PER SEEDING SCHEDULE ON SHEET G-04.

SEED AND STRAW

RESTORE EXISTING GRAVEL DRIVE (SEE SHEET C-05)

BACKFILL EXCAVATIONS WITH OVERBURDEN AND CLEAN FILL. RESTORE EXISTING GRADE PER DETAIL ON SHEET C-05.

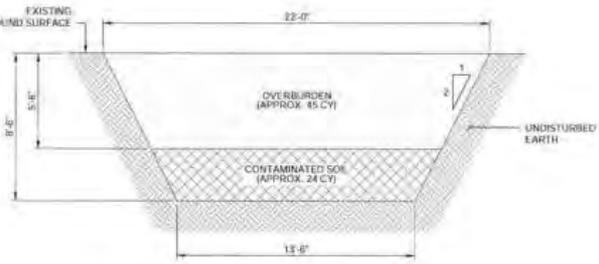
100-YEAR FLOOD PLAIN BOUNDARY

130

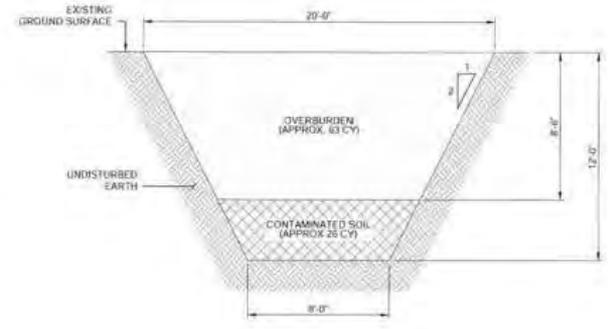
120

13

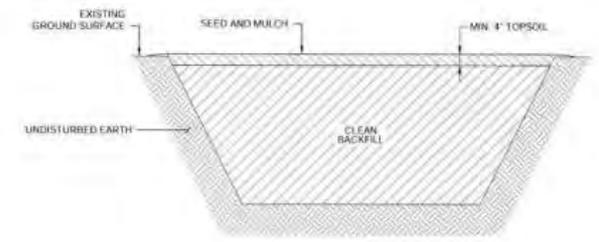
FENCE (TYP)



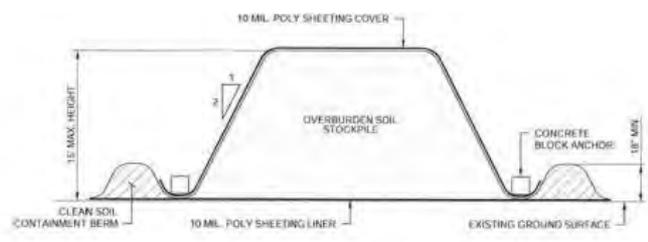
SECTION VIEW - HOT SPOT NO. 1
NOT TO SCALE



SECTION VIEW - HOT SPOT NO. 2
NOT TO SCALE



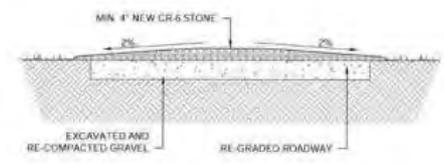
TYPICAL HOT SPOT RESTORATION
NOT TO SCALE



TYPICAL OVERBURDEN SOIL STOCKPILE SECTION
NOT TO SCALE

NOTES

1. RE-GRADE GRAVEL ROADWAY, CUT IN AND LEVEL.
2. PLACE, COMPACT, AND GRADE 4" OF CR-6 STONE. SLOPE TO DRAIN.



TYPICAL GRAVEL ROAD RESTORATION DETAIL
NOT TO SCALE



Schedule

- 12 September 2016 – Submitted E&SC Plan to Maryland Department of the Environment (MDE).
- 14 September 2016 – Revised Draft Final Remedial Design/Work Plan was submitted to EPA, MDE, and AOC.
- 15 October 2016 – Estimate for submittal of Final Remedial Design/Work Plan to EPA, MDE, and AOC.
- 17 November 2016 – Estimated start date for field work





ANY
QUESTIONS
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Acronyms and Abbreviations



- AECOM – AECOM Technical Services, Inc.
- AOC – Architect of the Capitol
- CSL – Closed Sanitary Landfill
- E&SC – Erosion and Sediment Control
- EPA – U.S. Environmental Protection Agency
- MDE – Maryland Department of the Environment
- OU – Operable Unit
- RAB – Restoration Advisory Board
- UFP-QAPP – Unified Federal Policy - Quality Assurance Project Plan



Points of Contact



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