



University of Pittsburgh

Trees Field Renovation Project

Job. No. X5743



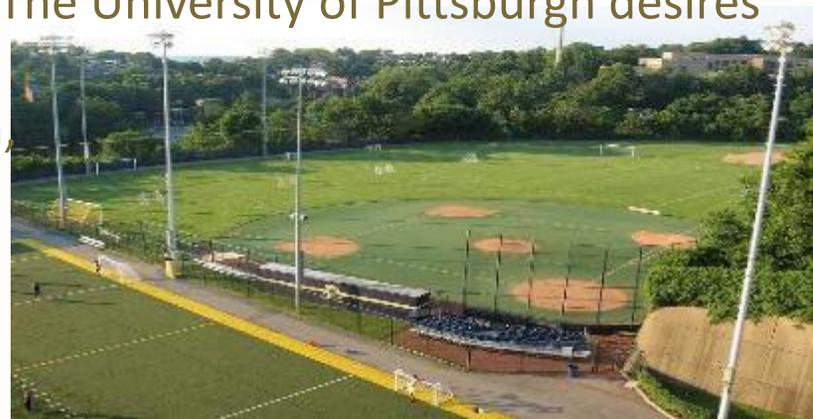
**CDM
Smith**

Presentation Outline

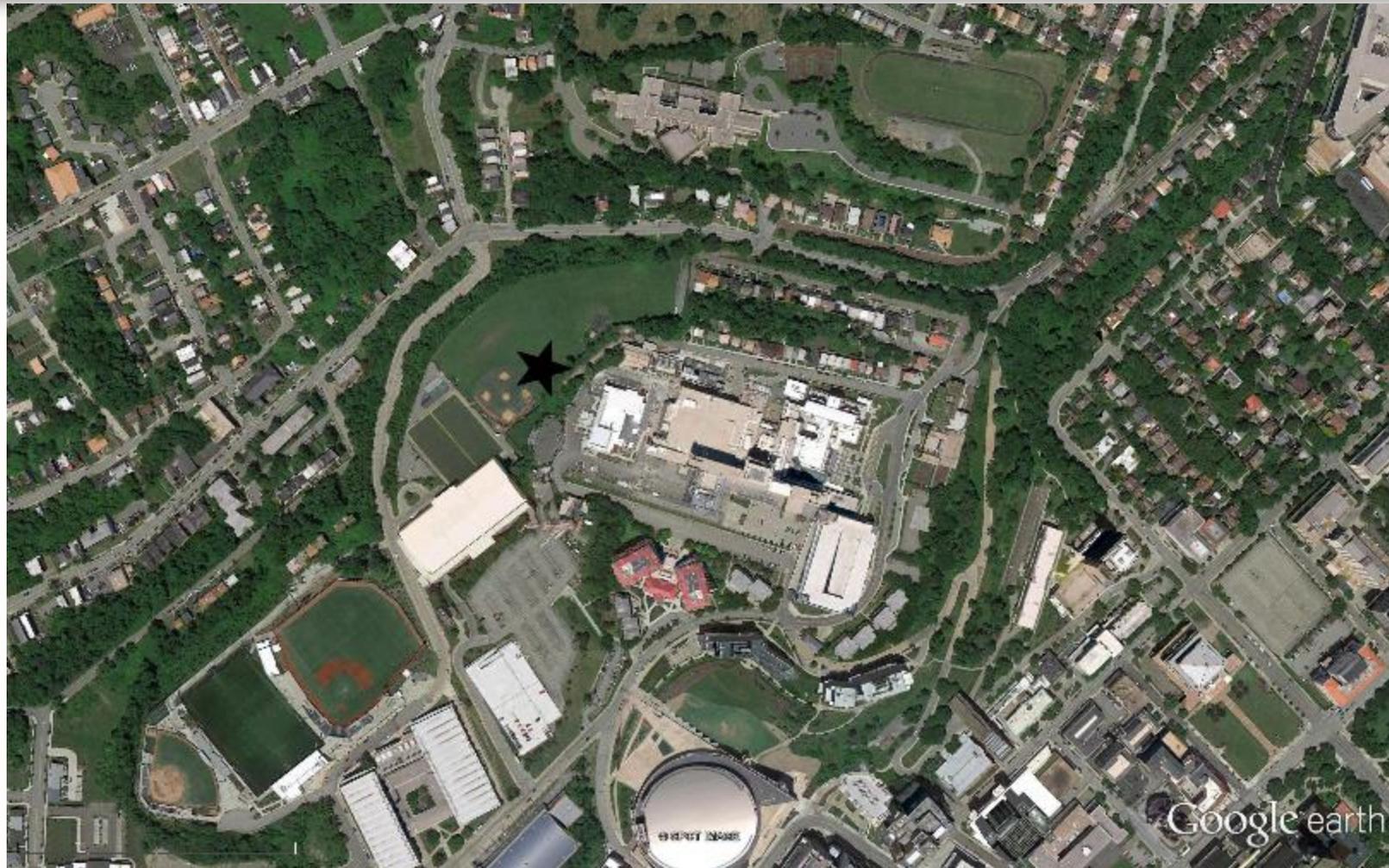
- Introduction
- Location Map
- Site Accessibility Plan
- MSE Wall
- Street views
- Landscaping Plan
- Sustainability and Stormwater Management
- Geotechnical
- Athletic Field Lighting
- Community Outreach
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Introduction

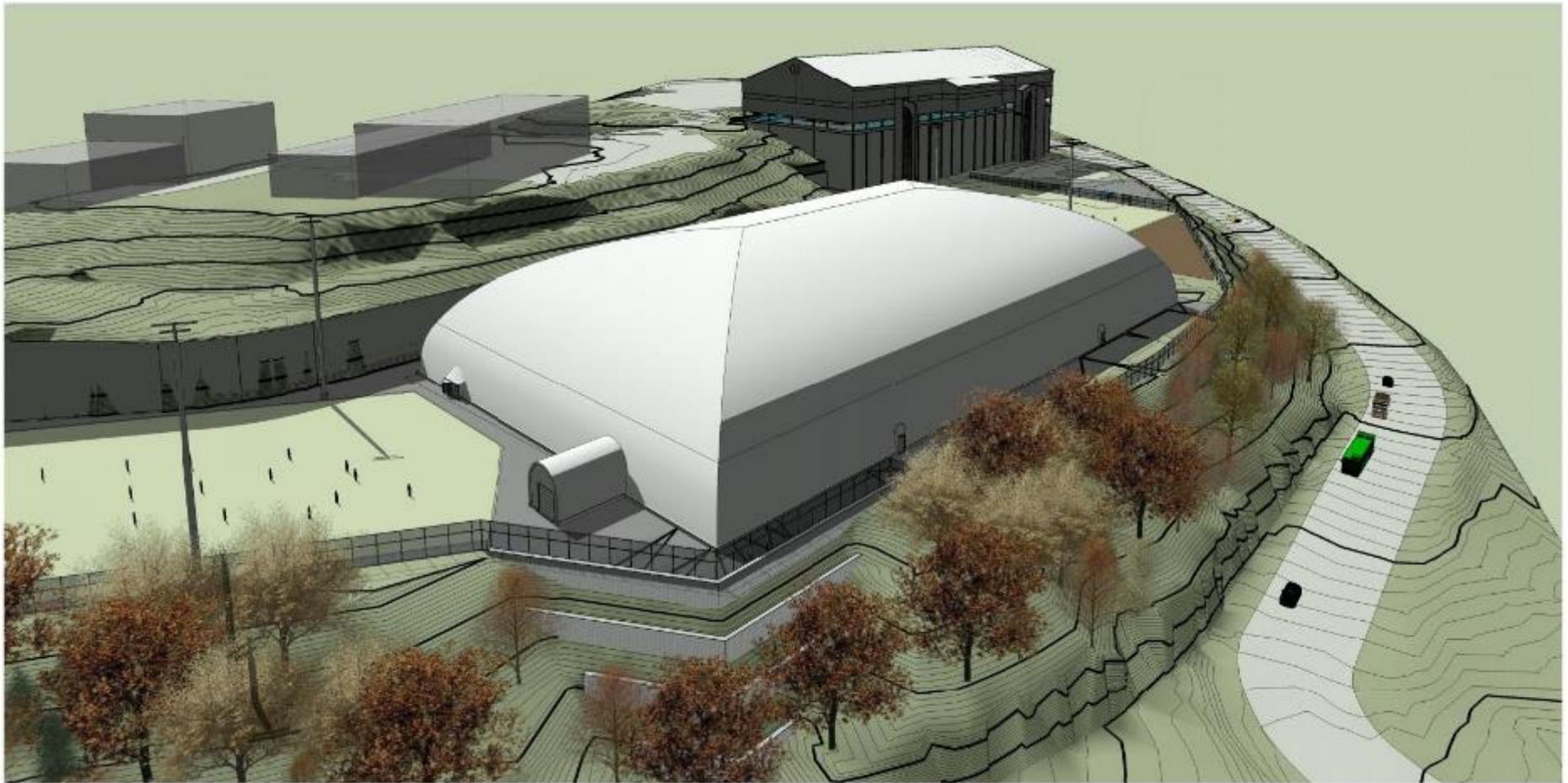
- **Proposed Development:** Part of the University of Pittsburgh's Institutional Master Plan
- **Address:** Trees Field; 570 Champions Drive; Pittsburgh,PA;15219
- **Zoned:** Educational/Medical Institution (EMI)
- **Description:** The development site that is the focus for this hearing consists of approximately 20 acres of the University's land holdings generally bounded by Center Avenue to the North, Aliquippa Street to the South and East, and Champions Drive to the West. The University of Pittsburgh desires to increase the dedicated outdoor facilities available for campus recreation, intramural teams and club sports at the Oakland Campus



Location Map – University of Pittsburgh



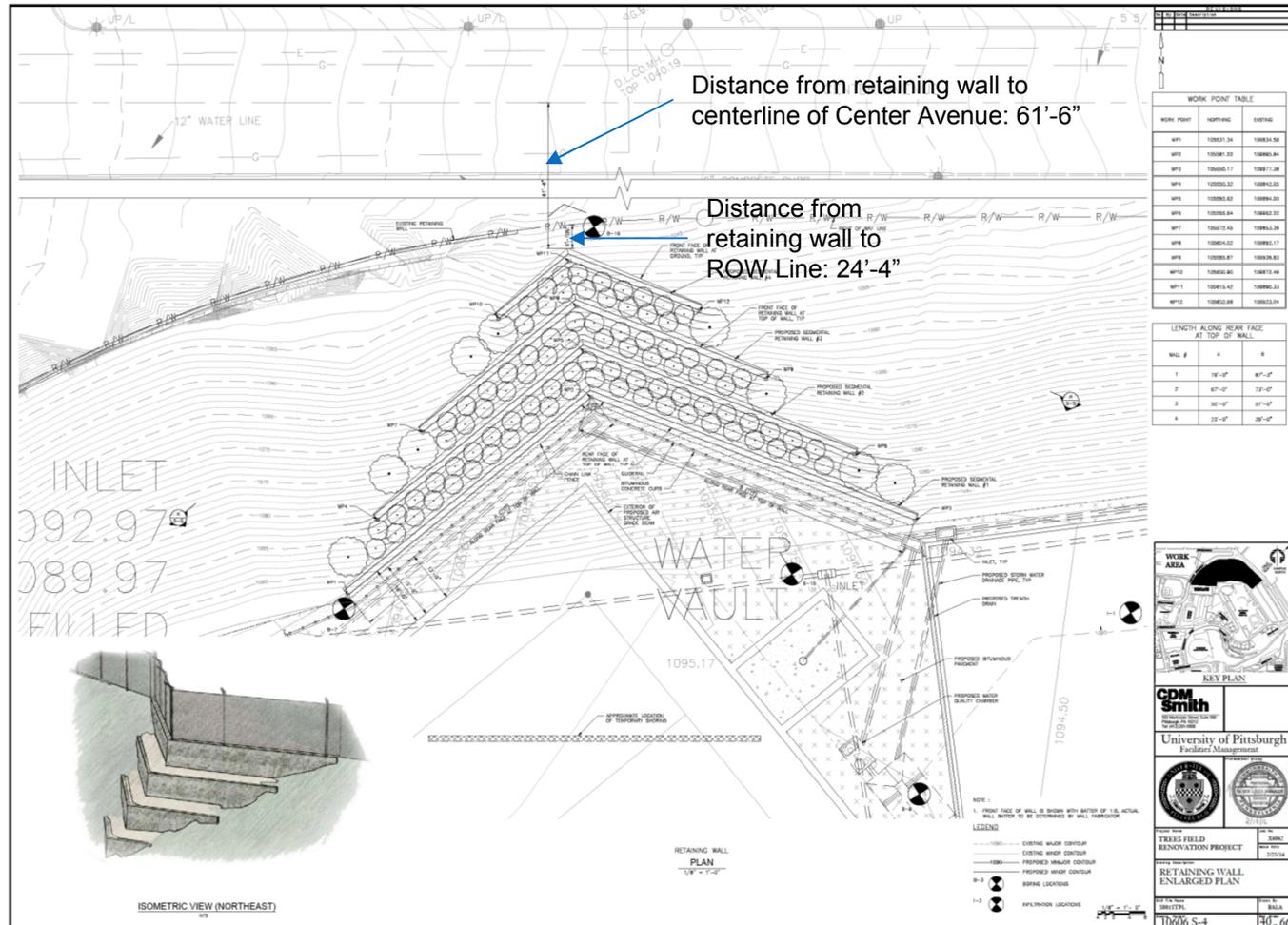
Bird's Eye View-North East to South West



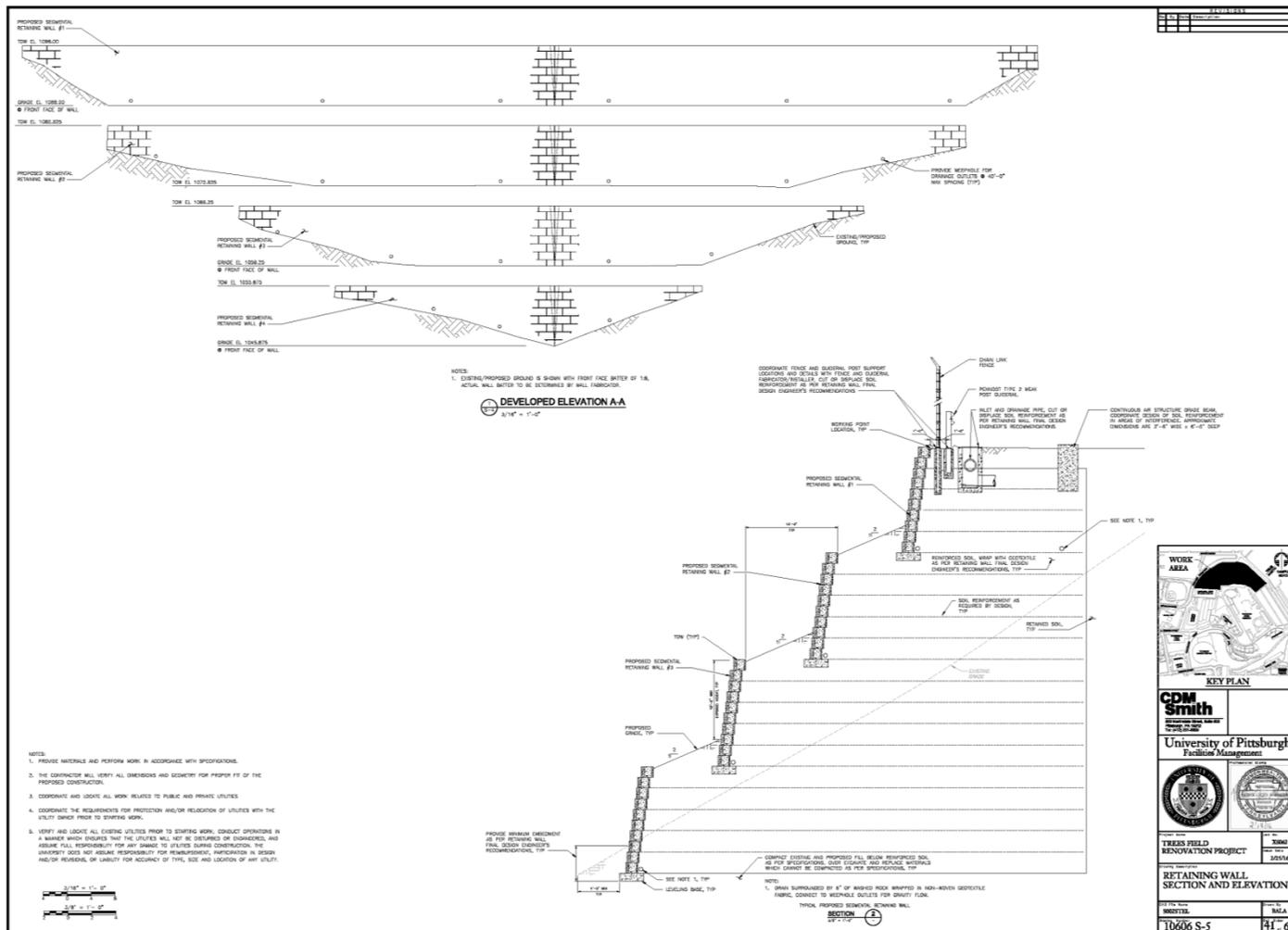
Site Accessibility Plan



Site Plan- Mechanically Stabilized Earth(MSE) Wall



Elevation- Mechanically Stabilized Earth(MSE) Wall



Perspective-MSE Streets View



Perspective- Landscaping Streets View



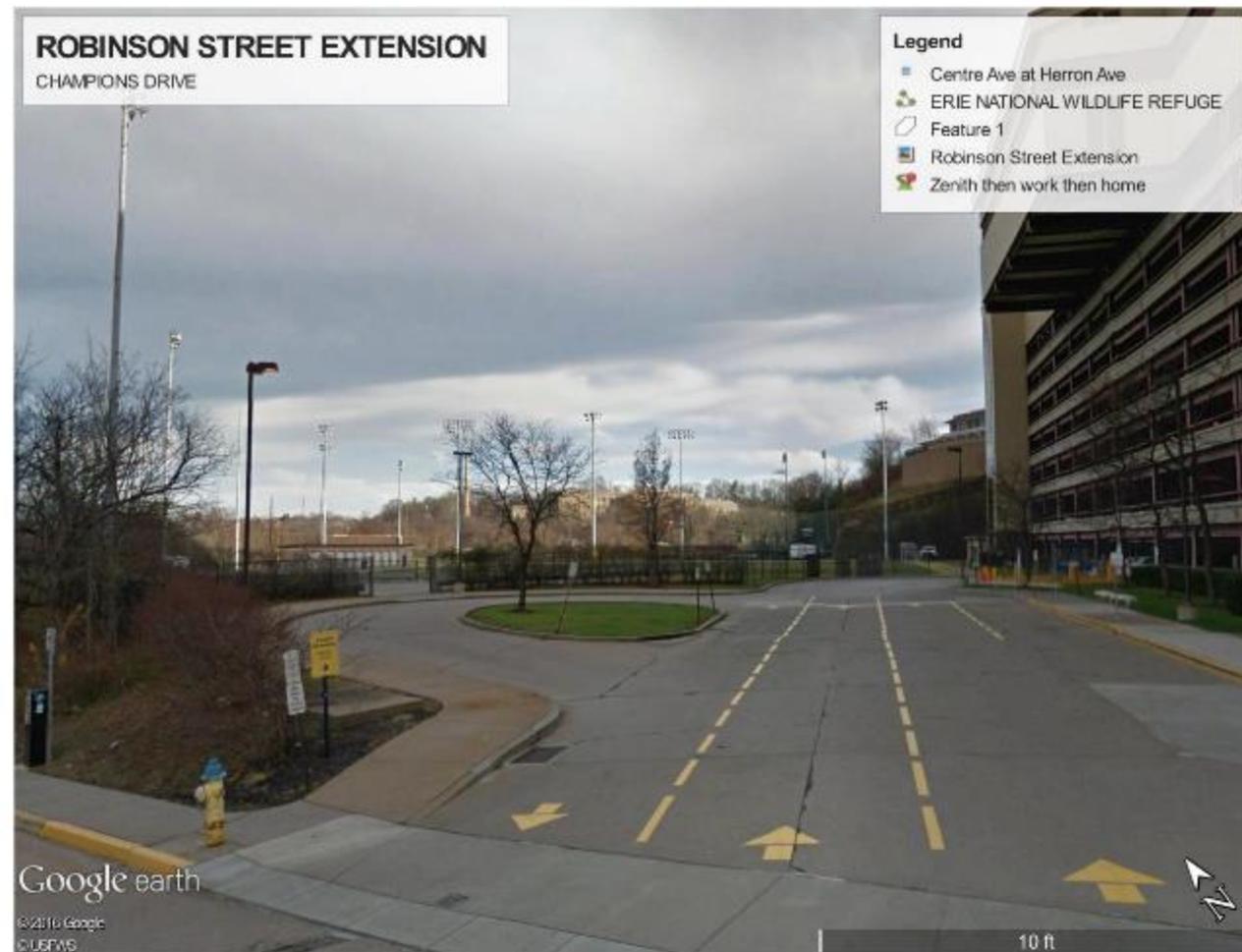
MSE Wall Material Board – Slate Blend Color



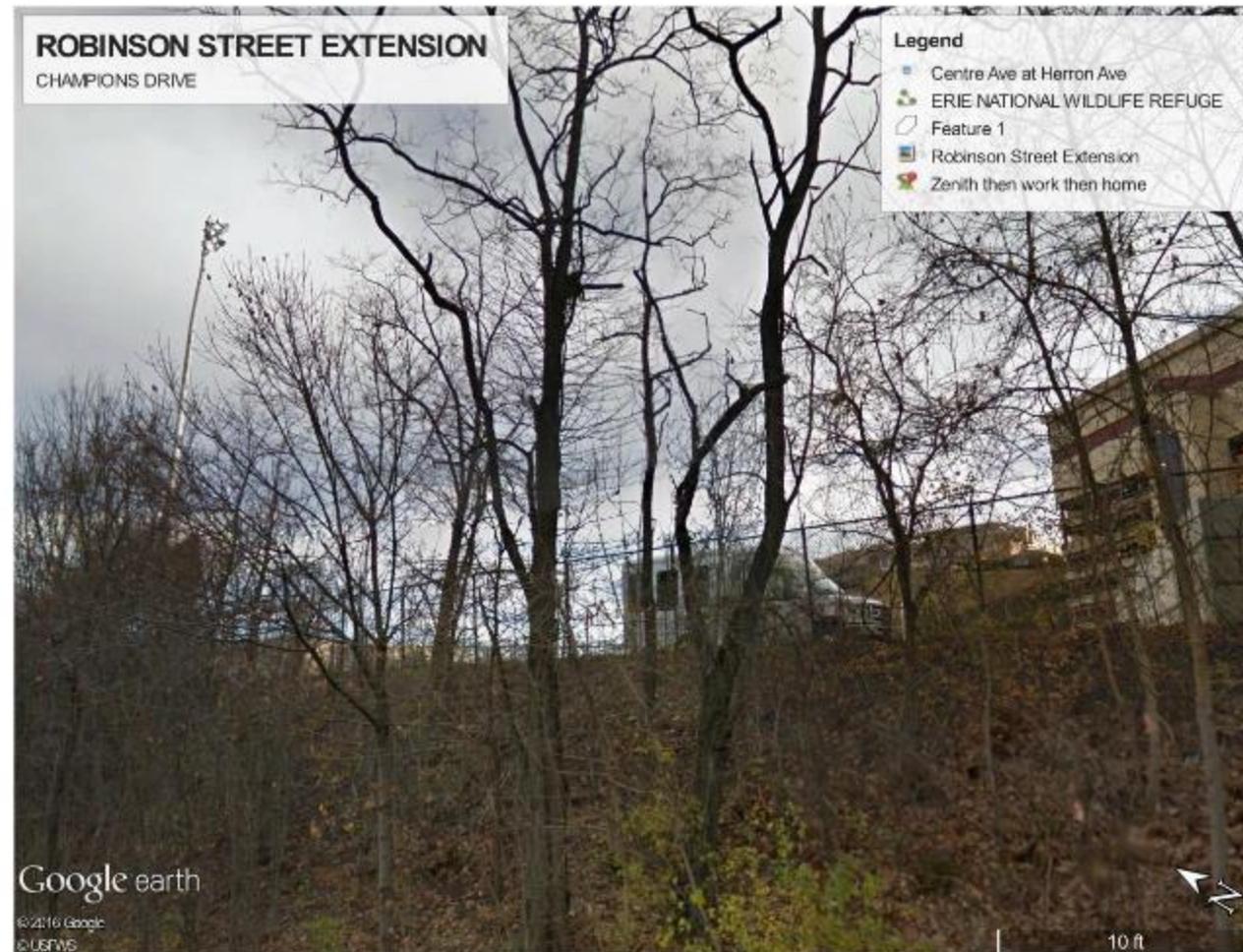
Landscaping – Grading and Cut and Fill Standards

- The grading shall preserve natural landforms and existing drainage patterns.
- Proposed development shall minimize impervious surfaces
- We are proposing MSE terraced walls of not more than 10'-0" of exposed face sufficient to stabilize and ensure the slope shall pose no significant risk or danger while meeting the Steep Slope Overlay Requirements set by the Planning Commission.
- Retaining wall shall follow the existing hillside contours and avoid unnatural slope faces while utilizing natural colored masonry compatible to their surroundings.
- Native species shall be utilized for revegetating the site.

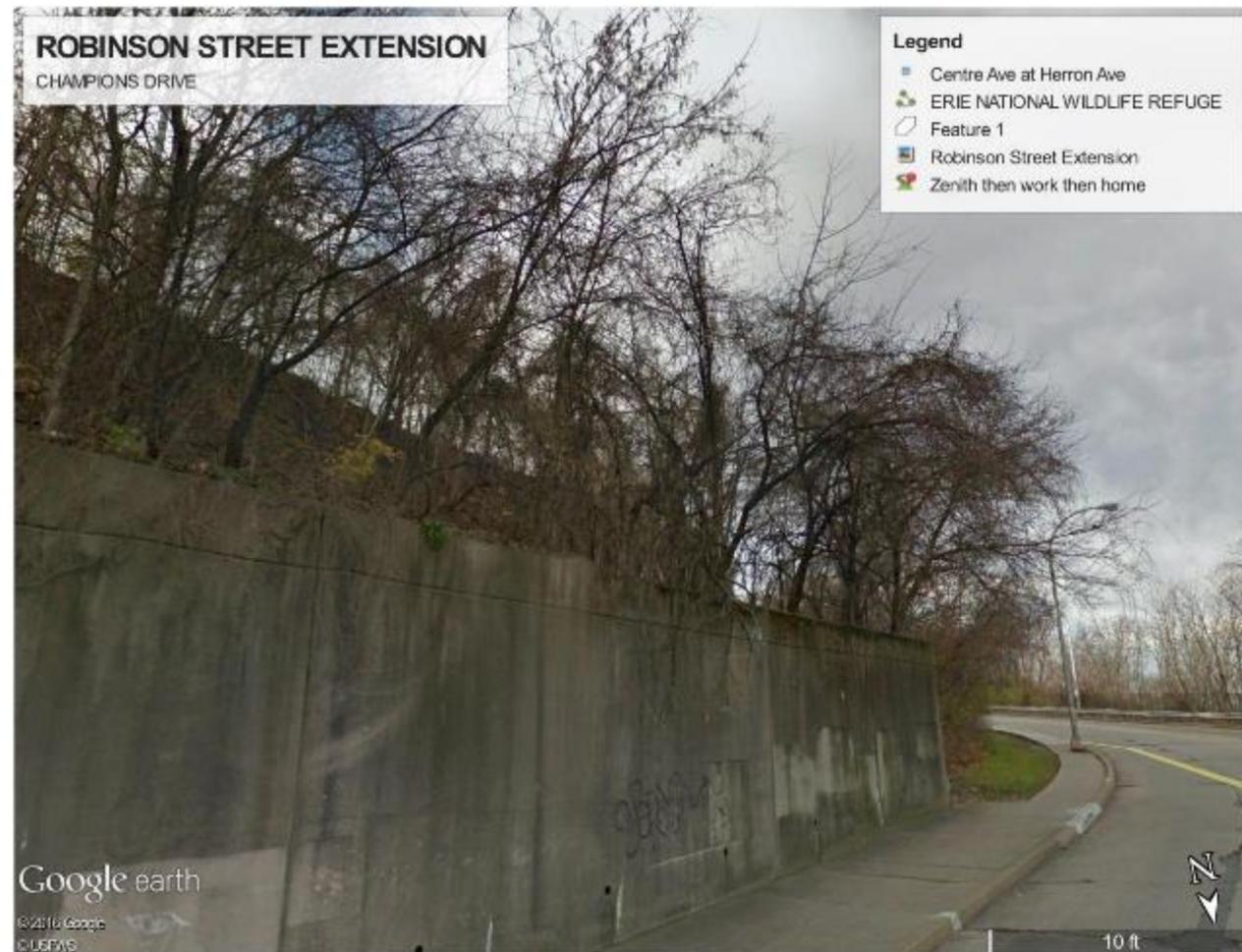
Google Earth Pro Streets View



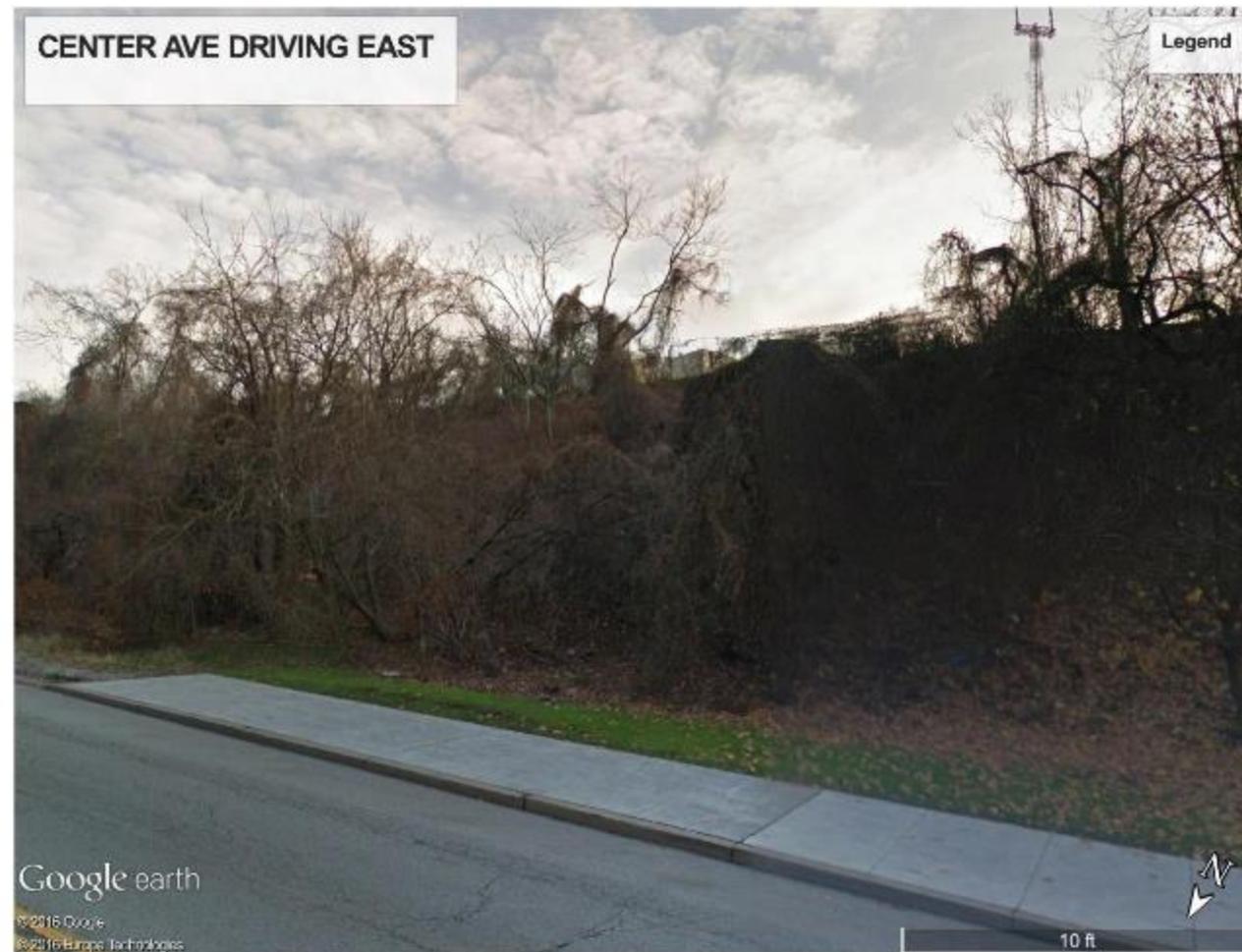
Google Earth Pro Streets View



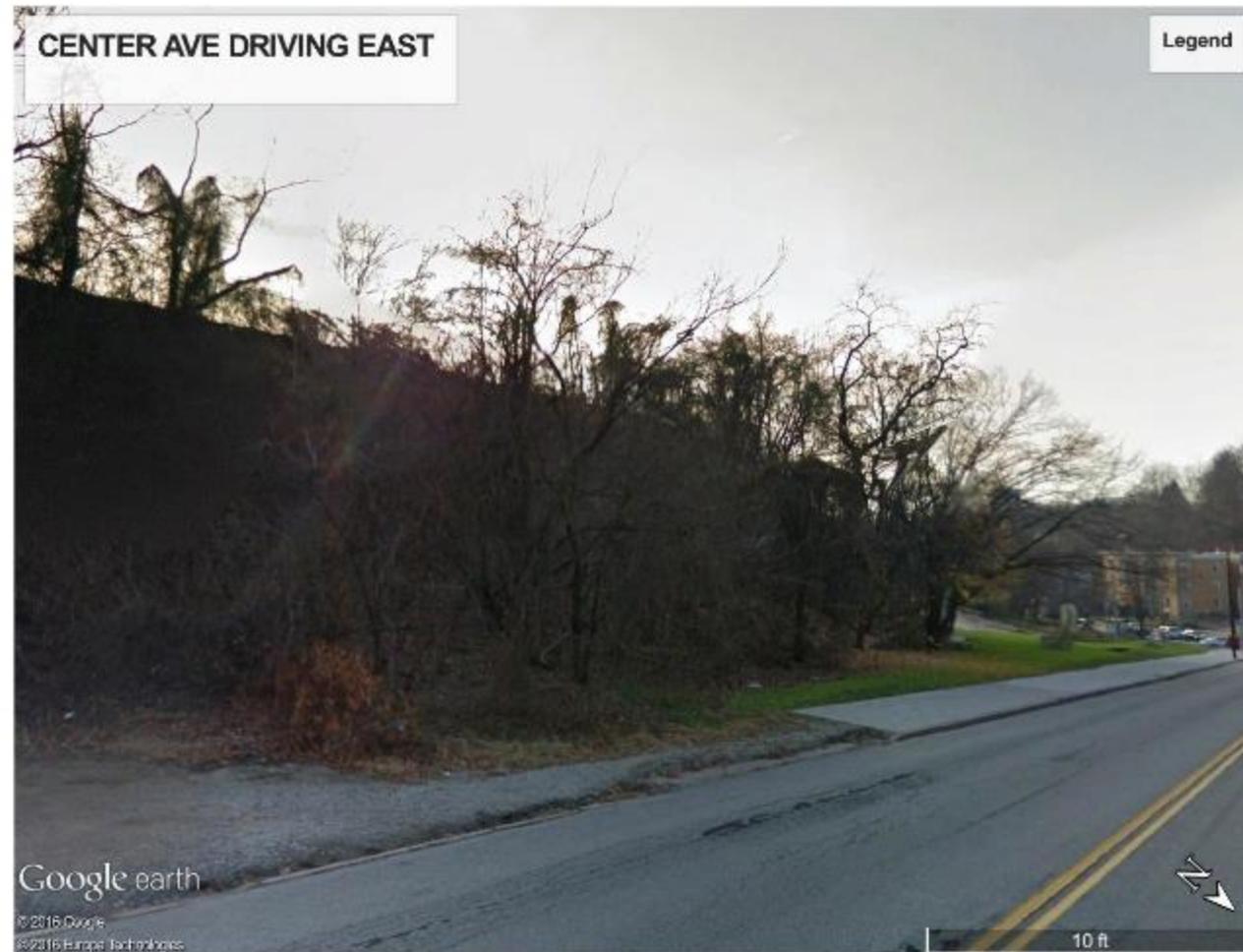
Google Earth Pro Streets View



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Google Earth Pro Streets View



Google Earth Pro Streets View



Google Earth Pro Streets View



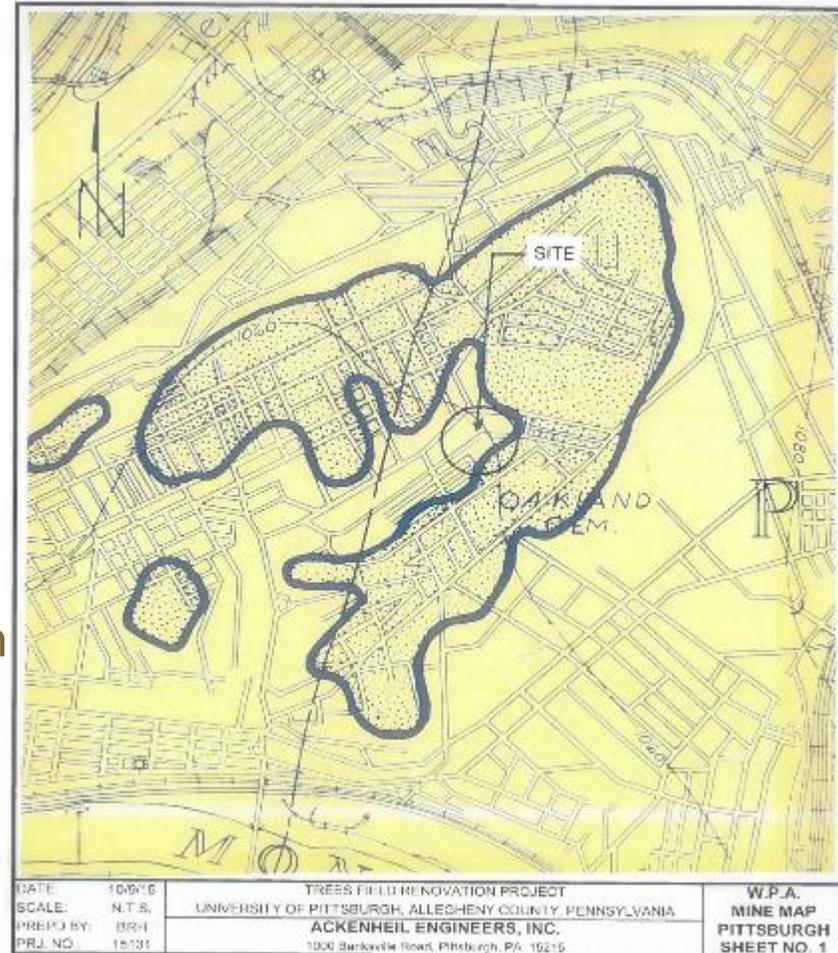
Sustainability and Stormwater Management

Sustainability Definition – Rate of renewable resource harvest, pollution creation, and non-renewable resource depletion.

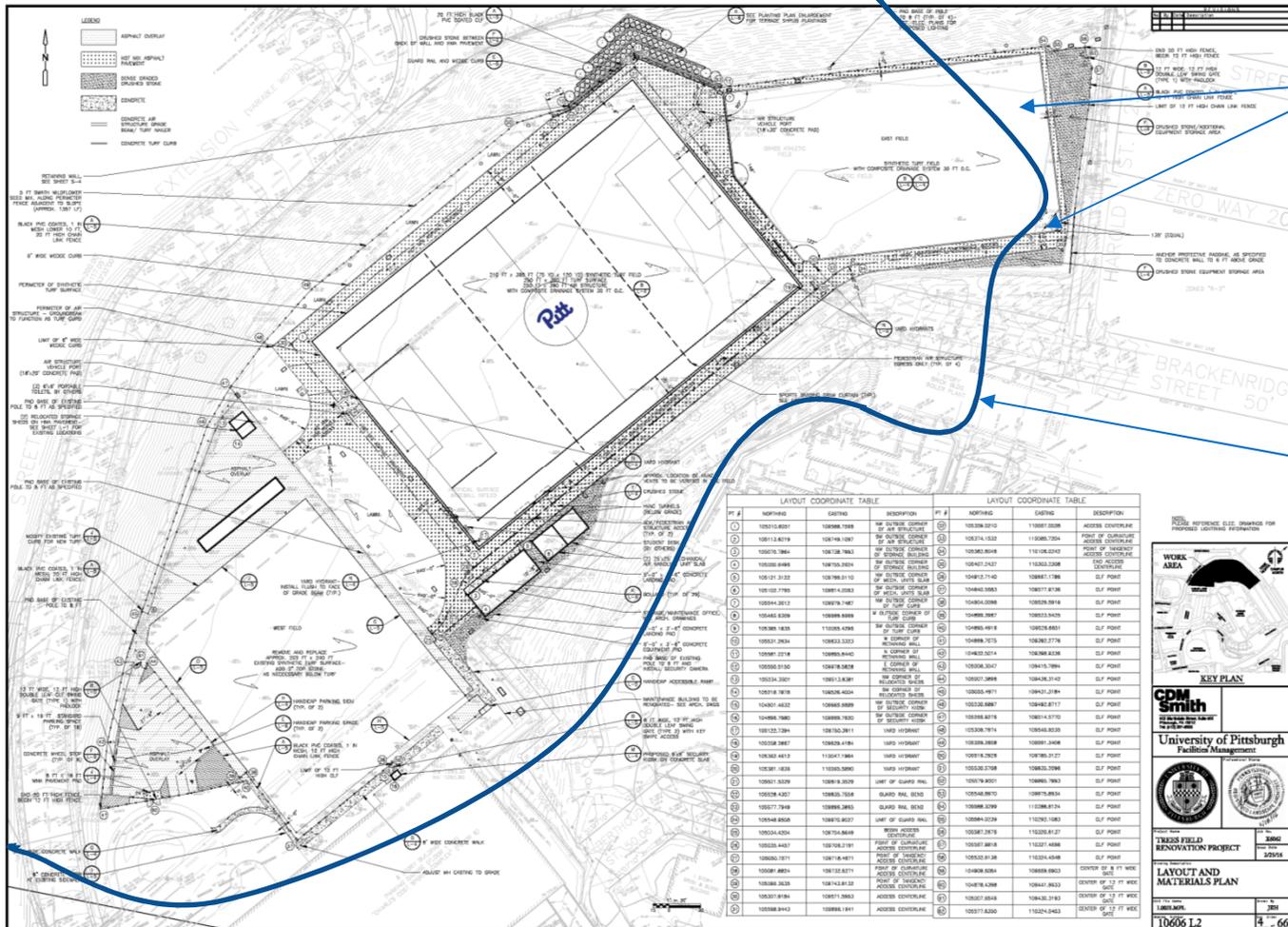
- The proposed Storm Water Management System (SWMS) utilizes infiltration to return water to the underground aquifer.
- Water quality units are utilized to removed pollutants prior to entering the infiltration system to maintain the soils infiltration capacity.
- The Proposed SWMS drains to the Monongahela River.
- Reduces the Post-construction runoff to below Pre-construction runoff rates for the 2, 5, 10, 25, 50, and 100 year storms and retains the first 1.2” of runoff from the site as required by the City of Pittsburgh’s Stormwater Management Ordinance.

Geotechnical-Work Program Administration (WPA) Mining Map

- Southern and eastern portion of the west athletic field (<10%) may be undermined at the Pittsburgh Coal Seam with a coal seam outcrop elevation at 1060 feet.
- Proposed finish elevation of synthetic turf field is at 1095.00 feet.
- Deepest elevation of drainage structure, piping and/or foundation is 1085.92 feet, which is ~25 feet higher than outcropping.
- No known history of subsidence events



Geotechnical-Work Program Administration (WPA) Mining Map

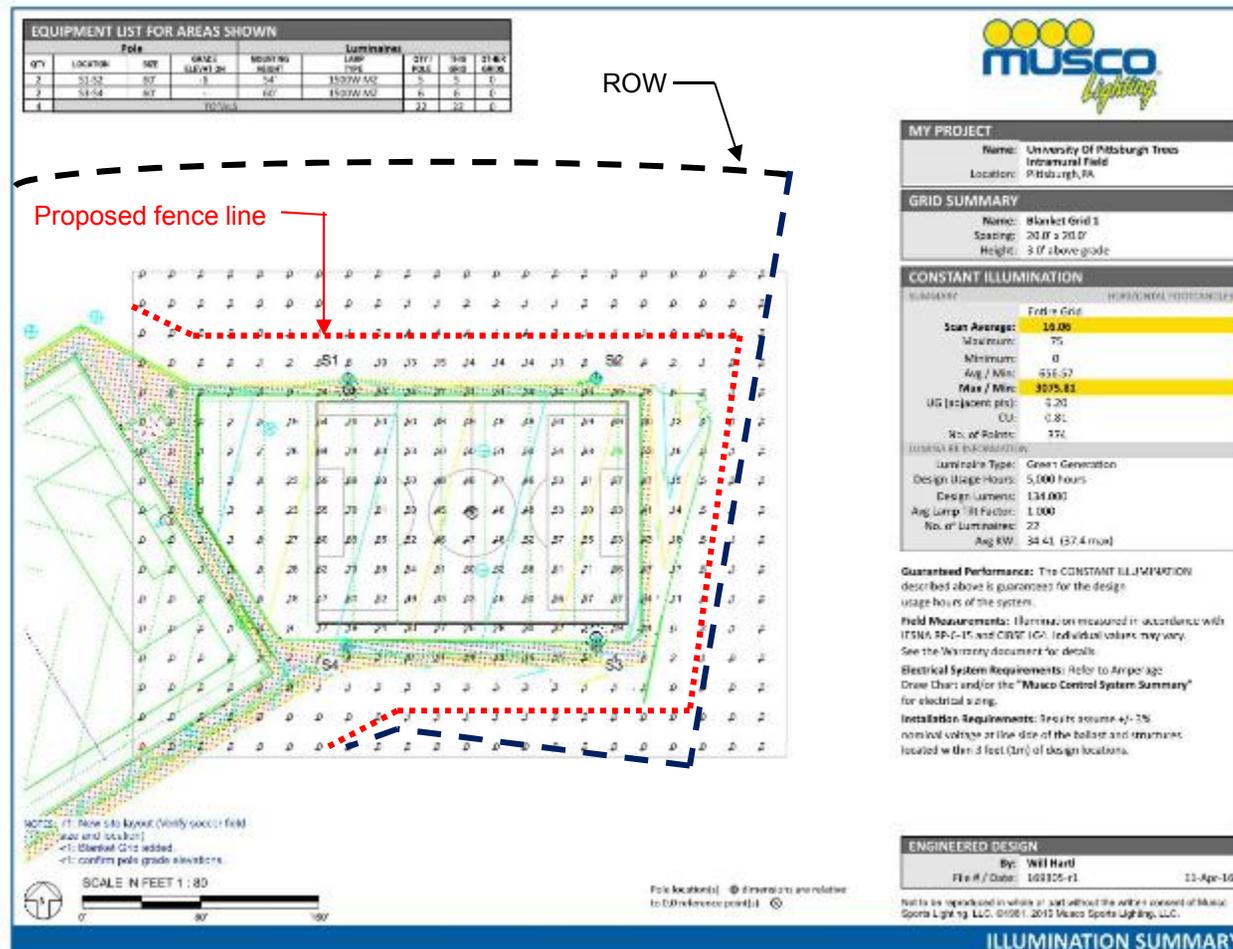


Areas affected by potential undermining

Boundary of mining map

CDM Smith
University of Pittsburgh
Facilities Management
TRASK FIELD RENOVATION PROJECT
LAYOUT AND MATERIALS PLAN
10606 L2

Athletic Field Lighting-Photometrics



MY PROJECT	
Name:	University Of Pittsburgh Trees
Location:	Intramural Field Pittsburgh, PA
GRID SUMMARY	
Name:	Basket Grid 3
Spacing:	20 ft x 20.0'
Height:	3.0' above grade
CONSTANT ILLUMINATION	
SUMMARY	HORIZONTAL FOOTCANDLES
Scan Average:	19.06
Maximum:	75
Minimum:	0
Avg / Min:	511.57
Max / Min:	3075.81
UG (adjacent pole):	0.20
CU:	0.81
No. of Poles:	172
LUMINAIRE INFORMATION	
Luminaire Type:	Green Generation
Design Usage Hours:	5,000 Hours
Design Lumens:	134,000
Avg. Lamp Life Factor:	1,000
No. of Luminaires:	22
Avg. KW:	34.41 (57.4 max)

Guaranteed Performance: The CONSTANT ILLUMINATION described above is guaranteed for the design usage hours of the system.

Field Measurements: Illumination measured in accordance with IESNA SP-C-15 and CIBCE ICA. Individual values may vary. See the Warranty document for details.

Electrical System Requirements: Refer to Appendix Draw Chart and/or the "Musco Control System Summary" for electrical wiring.

Installation Requirements: Specify luminaire +/- 1% nominal voltage at the base of the ballast and structure located within 3 feet (3m) of design locations.

ENGINEERED DESIGN		
By:	Will Hurd	
File # / Date:	103325-v1	10-Apr-16

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ILLUMINATION SUMMARY



Athletic Field Lighting

- Pole height: 60 feet
- Luminaires: total of 5 or 6 per pole, 1500 watts, will incorporate shielding to prevent light spillover
- Minimal glare
- Light cutoff will be near ROW for adjoining non occupied properties



Community Outreach

The University of Pittsburgh has met with various Community Organizations to review the project:

- Oakland Task Force
- Hill Community Development Corporation
- Hill District Consensus Group
- Hill House Association
- Oak Hill Resident's Council
- Brackenridge/Avalon
- Schenley Heights Community Development
- Veteran's Hospital- Pittsburgh-Oakland
- City Councilman Daniel Lavelle (District No. 6)
- Wesley Center AME Zion Church
- Department of Labor

Summary

- The University of Pittsburgh desires to increase the dedicated outdoor facilities available for campus recreation, intramural teams and club sports at the Oakland Campus.
- The project includes an Air Supported Structure, MSE wall, and Maintenance and Storage buildings.
- The Air Supported Structure dimensions dictate a requirement for the installation of a new terraced mechanically stabilized earth wall along Center Avenue.
- The effort of this presentation is to request Planning Commission understanding and approval of this project.