Spill Prevention Control and Countermeasures (SPCC) Plan

For:

University of Maryland
1101 Main Administration Building
7901 Regents Drive
College Park, MD 20742
(301) 405-1000

SPCC Plan Contact:

University of Maryland,
Department of Environmental Safety, Sustainability & Risk
Jason Baer, Assistant Director Office of Environmental Affairs
Seneca Building
4716 Pontiac Street
College Park, MD 20742
(301) 405-3163
jbaer123@umd.edu

SPCC Plan Preparation Date:

October 2019

Table of Contents

Tables

Cross Reference with SPCC Rule Provisions

Citation	Description	Plan Section
§112.3(d)(1)	Professional Engineer Certification	Section 5.0
§112.4(a) and (d)	Reporting to Regional Administrator	Sections 2.1 and 2.4
§112.5(a) – (c)	Amendment of Plan and Management of Five-Year Review	Section 2.4, Table 1
§112.7	General requirements for SPCC Plans for all facilities and all oil types: discussion of facility's conformance with rule requirements; deviations from Plan requirements; facility characteristics that must be described in the Plan; spill reporting information in the Plan; emergency procedures; management approval; and regulatory cross-reference.	Throughout plan
§112.7	Management Approval	Section 6.0
§112.7(a)(1)	Discussion of facility's conformance	Section 3.0
§112.7(a)(2)	Deviations from rule	Section 3.0
§112.7(a)(3)	Facility description and diagram	Section 3.0, Figures 1-2
§112.7(a)(3)(i)	List type of oil and capacity	Section 3.3, Appendices C-F
§112.7(a)(3)(ii)	Discharge prevention measures	Section 3.4
§112.7(a)(3)(iii)	Drainage controls	Sections 3.4, 4.1, and 4.3
§112.7(a)(3)(iv)	Countermeasures	Section 3.5, Table - 5, Figure 3
§112.7(a)(3)(v)	Methods of disposal	Section 3.5
§112.7(a)(3)(vi)	Contact list	Sections 2.1 and 3.5, Tables 4-5
§112.7(a)(4)	Notification procedures	Sections 2.1 and 3.5, Tables 4-5
§112.7(a)(5)	Response plan	Section 3.5
§112.7(b)	Fault analysis	Section 3.6, Appendices C-F
§112.7(c)	Secondary containment	Section 3.7, Appendices C-F
§112.7(d)	Contingency planning	Section 3.8
§112.7(e)	Inspections, tests, and records	Sections 3.9 and 3.15

Citation	Description	Plan Section
§112.7(f)(1)	Employee training and discharge prevention procedures	Sections 3.10 and 3.15
§112.7(f)(2)	Designated person	Section 3.2
§112.7(f)(3)	Annual briefings	Sections 3.10 and 3.15
§112.7(g)	Security (excluding oil production facilities) – Fencing, flow and valve security, starter control access, loading/unloading connection security	Section 3.11
§112.7(h)(1)	Loading/unloading (excluding offshore facilities) - secondary containment	N/A, Section 3.12
§112.7(h)(2)	Preventing vehicles from departing before disconnection	N/A, Section 3.12
§112.7(h)(3)	Inspection of bottom connections	N/A, Section 3.12
§112.7(i)	Brittle fracture evaluation requirements	Section 3.13
§112.7(j)	Conformance with state requirements	Sections 2.1, 3.9 and 3.15
§112.7(k)	Qualified oil-filled operational equipment	Sections 3.14 and 3.15
§112.7(k)(2)(ii)(A)	Oil Spill Contingency Plan	Section 3.14
§112.8(a)	General and specific requirements	Throughout plan
§112.8(b)(1)	Facility drainage - drainage from diked areas	Section 4.1
§112.8(b)(2)	Manual valves	Section 4.1
§112.8(b)(3)	Facility drainage system design	Section 4.1
§112.8(b)(4)	Diversion system	Section 4.1
§112.8(b)(5)	Treatment of drainage water	Section 4.1
§112.8(c)(1)	Bulk storage containers - compatible with stored contents	Section 4.2
§112.8(c)(2)	Secondary containment	Section 4.3, Appendices C-F
§112.8(c)(3)	Drainage of dike water	Sections 4.1 and 4.3
§112.8(c)(4)	Buried tanks	N/A, Section 4.4
§112.8(c)(5)	Partially buried or bunkered tanks	N/A, Section 4.4
§112.8(c)(6)	Aboveground tank integrity testing	Section 4.5
§112.8(c)(7)	Control discharges from heating coils	N/A, Section 4.5
§112.8(c)(8)	Overfill protection	Section 4.6
§112.8(c)(8)(v)	Level gauge inspection	Section 4.6
§112.8(c)(9)	Effluent treatment facilities	N/A, Section 4.7
§112.8(c)(10)	Visible discharges from tanks	Section 4.7
§112.8(c)(11)	Mobile or portable tanks	Section 4.8

Citation	Description	Plan Section
§112.8(d)(1)	Facility transfer operations, pumping, and facility process - cathodic protection and buried pipe inspection	Section 4.9
§112.8(d)(2)	Terminal connections	Section 4.9
§112.8(d)(3)	Piping supports	Section 4.10
§112.8(d)(4)	Aboveground piping inspection and leak testing of buried piping	Section 4.11
§112.8(d)(5)	Vehicle warnings	Section 4.11
§112.20(e)	Certification of Substantial Harm Determination	Section 2.3

University of Maryland SPCC

Figures and Appendices

Figures

Appendices

1.0 INTRODUCTION

A Spill Prevention Control and Countermeasure (SPCC) Plan is required to be prepared and implemented to comply with U.S. Environmental Protection Agency (EPA) regulations of Title 40, Code of Federal Regulations, Part 112 (40 CFR 112) as well as the Code of Maryland Regulations (COMAR) 26.10.01.

Facilities are subject to SPCC regulations if: the total aboveground storage tank (AST) capacity exceeds 1,320 gallons or the underground storage tank (UST) capacity exceeds 42,000 gallons, AND the facility can be reasonably expected to discharge oil into or upon the navigable waters of the United States. [40 CFR 112.1] The University of Maryland meets the applicability criteria and has prepared a SPCC Plan accordingly.

The SPCC Plan is not required to be filed with EPA, but a copy must be available for onsite review by the Regional Administrator.

In addition, UMD maintains an Emergency Response and Contingency Plan and a Health and Safety Plan, which are stored onsite for review.

2.0 REQUIREMENTS OF THE SPCC PLAN

[40 CFR 112.1 (e)] In order to comply with the federal regulations governing the implementation of this SPCC Plan, the University is required to:

- Review the SPCC Plan and update as necessary;
- Respond to a spill in accordance with the site-specific procedures as documented in this SPCC Plan;
- Notify the appropriate state and federal agencies in the event of a reportable spill;
- Perform regular inspections;
- Follow all procedures in place by the University for material handling and transfers;
- Train employees on aspects of this SPCC Plan; and
- Keep records of the previously described tasks.

The details of these requirements are discussed in this SPCC Plan.

2.1 REPORTING

All oil spills are to be immediately reported to the Maryland Department of the Environment (MDE), but no later than two (2) hours after becoming aware of the spill (COMAR 26.10.01.03). Spill reporting procedures and the MDE Spill Report Form are included in Appendix A. The additional reporting requirements for EPA and the State of Maryland are covered in 40 CFR Part 110 – Discharge of Oil, 40 CFR Part 112 - Oil Pollution Prevention regulations (the SPCC requirements), and COMAR 26.10.01.03. The specific requirements for each of these are discussed in the following paragraphs.

[40 CFR 110.6] [40 CFR 112.7 (a) (4)] Regulation requires that any discharge to navigable waters that causes a film, sheen, or discoloration of the water surface or adjoining shorelines, or causes a sludge or emulsion to be deposited beneath the water

surface or upon adjoining shorelines be reported immediately to the National Response Center (NRC) at (800-424-8802). The NRC will then notify the EPA as necessary. The NRC will ask the following information regarding the discharge:

- Facility name, address, and phone number
- Date and time of discharge
- Location of incident
- Source and cause of discharge
- Types of material(s) discharged and estimated volume
- Damage, danger or threat posed by the discharge
- Description of all affected media
- Number and types of injuries (if any)
- Possibility of an evacuation
- Weather conditions at the incident location
- Actions being used to stop and/or mitigate the discharge
- Other parties contacted regarding the discharge
- Other information to help emergency personnel respond to the incident

[40 CFR 112.4 (a)] The discharge is also to be reported to the EPA Region III Regional Administrator within sixty (60) days only when either of the following occurs:

- The University discharges a harmful quantity of more than 1,000 gallons of oil into or upon the navigable waters of the United States or adjoining shorelines in a single event; or
- The University discharges a harmful quantity of more than 42 gallons of oil into or upon the navigable waters of the United States or adjoining

shorelines in two spill events within any 12-month period.

[40 CFR 110.3 (a)-(b)] A harmful quantity is defined by as a quantity that:

1. Exceeds applicable water quality standards, or
2. Causes a film or sheen upon or discoloration of the surface of the water or adjoining shorelines or causes a sludge or emulsion to be deposited beneath the surface of the water or upon adjoining shorelines.

The report sent to EPA should contain, at a minimum, the following information:

- Name of facility
- Name(s) of facility owner or operator
- Location of facility
- Maximum storage or handling capacity of the facility and normal daily throughput
- Description of facility, including maps, flow diagrams, and topographical map
- The cause(s) of the spill(s), including a failure analysis of system or subsystem in which failure occurred
- Corrective actions and/or countermeasures taken
- Description of equipment repairs and replacements made
- Additional preventive measures taken or contemplated to minimize the possibility of recurrence
- Any other pertinent information as requested by EPA

[COMAR 26.10.01.03] **A report to the Maryland Department of the Environment (MDE) Emergency Response Division (1-866-633-4686) must be submitted if an oil spill or discharge of <u>ANY</u> quantity of oil occurs.** Within **two hours** after the

detection of the spill, a verbal report that includes the following information must be made:

- Time and location of discharge
- Type of facility involved
- Type and quantity of oil spilled
- Assistance required
- Name, address, and telephone number of persons making report
- Any other pertinent information as requested by MDE

[COMAR 26.10.01.03 E] Additionally, within ten (10) working days after completion of spill cleanup, a written report of the discharge must be submitted to MDE. The MDE Spill Form is included in Appendix A and can also be found online at: https://mde.maryland.gov/programs/Crossmedia/EmergencyResponse/Documents/mdespillreport.pdf.

The form must include the following information:

- Date, time, and place of oil spill
- Amount and type of oil spilled
- A complete description of circumstances contributing to the spill
- A complete description of containment, removal, and clean-up operations, including disposal sites and costs of operations
- Procedures, methods, and precautions implemented to prevent recurrence
- Certification that the information provided is true and correct to the knowledge of the person signing the report

- Any other information considered necessary or required by MDE for a complete description of the spill incident

2.2 SPILL HISTORY

There have been eight (8) reported spills at this campus since 2017, none of which were greater than 40 gallons. There have been no known harmful quantities of oil being discharged to navigable waterways since the original SPCC in 1999. However, there was one (1) spill in October of 2017 where an estimated 40 gallons of cooking oil and food grease entered the UMD stormwater system. A minor oil sheen was observed on the surface receiving water body, the Paint Branch. The spill was reported to the NRC and to MDE. MDE advised UMD they do not consider food oil/grease as part of their oil spill reporting requirements.

Available spill history information is described and documented on the Spill History Reports in Appendix B. If a spill has affected nearby waterways in the last three years, detailed information regarding the spill can be found on a copy of that report. Information that should be provided on the Spill History Report includes:

- Date, time, and location of spill
- Type and quantity of material spilled
- Cause of the spill
- Cleanup personnel involved
- Indication if spill reached nearby waters

Spill history documentation is maintained at the University within the Department of Environmental Safety, Sustainability, & Risk (ESSR). Blank Spill Reporting Forms are included in this SPCC Plan in Appendix A.

2.3 CERTIFICATION OF SUBSTANTIAL HARM DETERMINATION

Facility:	University of Maryland, College Park
Total Number of Oil Storage Tanks:	77
Total Oil Storage Capacity:	684,656 Gallons
Largest AST Oil Storage Capacity:	252,762 Gallons
Facility Distance to Navigable Waters:	Varies; Approximately 73' (Minimum Distance)

2.3.1 Applicability of Substantial Harm Criteria

Does the University transfer oil over water to or from vessels and does the University have a total storage capacity greater than or equal to 42,000 gallons and conduct operations that include over-water related transfers to and from vessels? **NO**

Does the University have a total storage capacity greater than or equal to 1 million gallons and does the University lack secondary containment that is sufficiently large to contain the capacity of the largest aboveground oil storage tank plus sufficient freeboard to allow for precipitation within any aboveground storage tank area? **NO**

Does the University have a total oil storage capacity greater than or equal to 1 million gallons and is the University located at a distance such that a discharge from the University could cause injury to fish and wildlife and sensitive environments? **NO**

Does the University have a total oil storage capacity greater than or equal to 1 million gallons and is the University located at a distance such that a discharge would shut down a public drinking water intake? **NO**

Does the University have a total oil storage capacity greater than or equal to 1 million gallons and has the University experienced a reportable oil spill in an amount greater than or equal to 10,000 gallons in the last five (5) years? **NO**

2.3.2 Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

Signature: _____ **Date**: 10/18/19

Name: JASON BAER

Title: ASSISTANT DIRECTOR, OFFICE OF ENVIRONMENTAL AFFAIRS

2.4 REVIEW OF THE SPCC

[40 CFR 112.4 (d)] The SPCC Plan will be amended, if after review by the EPA Region III Regional Administrator, it is judged that the information contained herein does not meet the requirements of 40 CFR 112 or an amendment is necessary to prevent and contain discharges from the University.

[40 CFR 112.5 (a)] The SPCC Plan shall be amended within six (6) months whenever there is a change in campus design, construction, operation, or maintenance that materially affects the campus's spill potential, and implemented as soon as possible, but not later than six (6) months following preparation of the amendment.

[40 CFR 112.5 (b)] The SPCC Plan must be reviewed at least once every five (5) years and amended to include more effective prevention and control technology, if such technology will significantly reduce the likelihood of a spill event, has been proven in the field, and is available. The University will implement the amendment as soon as possible, but not later than six (6) months following preparation of the amendment.

In some cases, a registered Professional Engineer (PE) must certify technical changes. If upon review it is determined that the SPCC Plan continues to reflect the conditions of the University at that time or only non-technical changes are required, the Plan does not need to be sealed by a PE. Any time the SPCC Plan is reviewed; the person(s)

performing the review must sign and date the SPCC. No amendment to the SPCC Plan that affects the engineering or operational practices of the University shall satisfy the requirements of 40 CFR 112.5 unless it has been certified by a PE in accordance with 40 CFR 112.3(d).

ESSR staff will complete a review and evaluation of the SPCC Plan at least once every five (5) years. In signing page 8 of this SPCC Plan, the signer/signee attests they have completed review and evaluation of the SPCC Plan for the University of Maryland on the signed date, and will or will not amend the Plan as a result per 40 CFR 112.5(b). The reviews will be documented on the next page.

Table 1. SPCC Log of Review and Technical Changes

Review/ Revision Date	Details / Comments	Amended Plan (Y/N)	Signature
Dec. 1999	Original SPCC Plan	N/A	Signed and Stamped 1999
Feb. 2003	5-Year Review & Update	Yes	Signed and Stamped 2003
June 2008	5-Year Review & Update	Yes	Signed and Stamped 2008
Feb. 2014	5-Year Review & Update	Yes	Signed and Stamped 2014
June 2016	Administrative changes	No	Not signed 2016
October 2019	5-Year Review & Update	Yes	Signed and Stamped Oct. 2019
November 2019	Updated sections 3.13 and 4.5 to reflect API standards	Yes	Signed and Stamped Nov. 2019
March 5, 2021	Update Tank Lists	No	Kaitlyn Peterson
May 2, 2022	Updated UMD contact list Replace of Phillip Riggs with Mark Alexander	Yes	Kaitlyn Peterson
June 6, 2022	Updated Tank Lists and Summary of All Fuel & Oil Storage	Yes	Kaitlyn Peterson

3.0 GENERAL SPCC PLAN REQUIREMENTS

3.1 LOCATION AND CAMPUS DESCRIPTION

[40 CFR 112.7 (a) (1)] UMD's SPCC Plan developed herein conforms to the requirements of the regulation. Full approval of management is included within this SPCC Plan.

[40 CFR 112.7 (a) (2)] This Plan does not deviate from any requirement of 40 CFR 112 as allowed by 40 CFR 112.7(a)(2) (environmental equivalence) and 40 CFR 112.7(d) (impracticability of secondary containment).

[40 CFR 112.7 (a) (3)] UMD is located in College Park, Maryland 20742 within Prince George's County. UMD is approximately 4 miles from the northeast border of Washington, D.C. The campus core is generally bounded by University Boulevard to the north and west, Baltimore Avenue (Route 1) to the east, and Knox Road to the south. Baltimore Avenue bisects the southeastern portion of the campus. The campus consists of over 350 buildings on 1,335 acres of land. The campus consists of paved, unpaved, and construction areas. Accordingly, a significant portion of the campus is considered impervious. The campus is located in a suburban area surrounded by light commercial and residential areas.

The UMD campus maintains a Phase II Municipal Separate Storm Sewer System (MS4) that operates under General Discharge Permit No. 13-SF-5501. The University is permitted by State Discharge Permit No. 08-DP-2618 (NPDES permit MD0063801) to discharge contact and non-contact cooling water, boiler blowdown, condensate and stormwater runoff from twelve (12) outfalls. These outfalls discharge to Campus Creek, Guilford Run and the Paint Branch. Water from these discharge points ultimately flow to the Anacostia River and to the Chesapeake Bay. The UMD main campus operates under Oil Operations Permit No. 2014-OPT-3522 and the Severn Building (#810), located 1.3 miles northwest of the main campus, operates under Oil Operations Permit No. 2018-OPT-6551.

Due to the fact the Severn Building (#810) contains an aboveground storage capacity over the 10,000-gallon limit which would require a P.E. signature, UMD included the off-campus facility in the coverage of this SPCC plan. Additional offsite, non-contiguous properties, owned and operated by UMD, around the UMD campus are not included in this SPCC plan due to the total

volume of their aggregate aboveground storage capacity being less than 1,320 gallons. A site vicinity map is attached as Figure 1.

3.2 FACILITY INFORMATION

Facility Information

Name of Facility: University of Maryland, College Park

Street: 1101 Main Administration Building, 7901 Regents Dr.

City: College Park State: MD ZIP Code: 20742

County: Prince George's County

Facility Owner and Operator:

Name: University of Maryland, College Park

Address: 1101 Main Administration Building, 7901 Regents Drive

City, State, Zip Code: College Park, MD 20742

SPCC Plan Contacts:

Primary:

Name: Jason Baer, Assistant Director, Office of Environmental Affairs

Telephone Number: 301-405-3163

Email address: jbaer123@umd.edu

Secondary:

Name: Kaitlyn Peterson, Environmental Specialist, Office of Environmental Affairs

Telephone Number: 301-405-8604

Email address: Kpeter13@umd.edu

The following sections summarize the oil product storage capacities and their potential failures (e.g. tank overflow, rupture or leakage), containment capacities, flow directions, and flow rates.

3.3 CONTAINER CAPACITIES AND DESCRIPTION

[40 CFR 112.7 (a) (3) (i)] The following sections describe each of the various oil storage container types identified that are operated at the UMD. A summary of the various container types and volumes is listed in Table 2. A detailed list is contained in Appendices C through F.

Table 2: Summary of All Fuel & Oil Storage at University of Maryland

3.3.1 Aboveground Storage Tanks (ASTs)

The University currently has a total of seventy-four (74) permanently installed ASTs and three (3) portable ASTs. Due to the nature of operations and construction projects at UMD, the addition and removal of ASTs occurs often. An updated table of ASTs is located in Appendix C and will be continuously updated as ASTs are added or removed from UMD.

Type/Category	Type of Fuel/Oil	Total Number of Containers	Total Capacity (gallons)[1]
ASTs	Gasoline; Fuel Oil; Diesel; Used Oil; Hydraulic Oil; Motor Oil; Food Grease	75	622,470
Portable ASTs	Diesel (Portable)	4	858
Portable Small (≥55-gallons)Quantity Oil Containers	Hydraulic Oil; Food Grease; Waste Oil (Portable)	Varies	Varies
Hydraulic Elevators*	Hydraulic	101	12,625
Transformers*	Mineral Oil	144	49,133
	Total:	**324**	**685,086**

**These volumes are appoximated*

3.3.2 Underground Storage Tanks (USTs)

There are no underground oil/fuel storage tanks at UMD.

3.3.3 Portable Storage Tanks

There are four (4) portable storage tanks at UMD. One (1) 110-gallon diesel fuel tank is mounted on a truck and used for mobile refueling of diesel fired emergency generators, one (1) 200-gallon diesel fuel portable generator, one (1) 80-gallon diesel fuel portable generator, and one (1) 468-gallon portable generator. When not in use, the portable ASTs are stored beneath a covered concrete pad adjacent to the X1 parking lot at the Severn Building (#210). A spill sock is placed at the low point of the concrete pad where it drains to the parking lot to prevent oil from reaching the stormwater system.

3.3.4 Small Quantity Oil Containers (Drums)

The number and location of 55-gallon drums varies day-to-day. Approximately, there are thirty (30) 55-gallon drums and two (2) 150-gallon used food grease containers currently being stored at UMD in various locations. These locations include, but are not limited to, the following:

- Energy Plant (#001)
- South Campus Dining Hall (#026 SDH)
- Stamp Student Union (#163 SSU)
- Manufacturing Building (#148)
- Denton Area Dining hall (#251)
- Ellicott Area Dining Hall (#257)
- Golf Course Indoor Practice Facility (#309)
- Xfinity Center (#360)
- Gossett Football Team House (#379)
- Shuttle Bus Facility (#424)
- Severn Building & Motor Pool (#812)

3.3.5 Oil-Filled Operating Equipment

There are one hundred one (101) oil-filled operating equipment (hydraulic elevators) at UMD, which are described in Appendix D. Regular maintenance and inspections of the oil-filled operating equipment are performed by the UMD Elevator Shop within Facilities Management. An audit of their maintenance and inspection records is performed quarterly.

There are one hundred forty-four (144) oil-filled electrical components (transformers) at UMD, which are described in Appendix E. Regular maintenance and inspections of the oil-filled electrical components are performed by College Park Energy. An audit of their maintenance and inspection records is performed annually.

3.3.6 Oil Water Separators/Food Grease Interceptors

UMD has twelve (12) oil/water separators (OWSs). Eleven (11) of the twelve (12) OWSs are used for wastewater treatment which are not subject to SPCC requirements according to 40 CFR 112.1(d)(6):

- One (1) 1,000-gallon OWS located in the southeast corner of the Steam Plant (#001)

- Two (2) 1,600-gallon OWSs located at the Shuttle Bus Facility (#424). One is located adjacent to the fueling area of the 20,000-gallon diesel tank, the other is located outside of the Shuttle Bus Facility maintenance shop
- One (1) 1,600-gallon OWS on the outside of the Motor Pool (Severn Bldg. #810)
- One (1) 1,600-gallon OWS located in the northeast corner of the fueling island of the Severn Building (#810)
- One (1) 1,600-gallon OWS located in the southwestern corner of Building #426
- One (1) 1,600-gallon OWS located on the ground level in the Mowatt Lane Parking Garage (#404)
- One (1) unknown size* OWS located outside of the southwest side of the ground level of Terrapin Trail Parking Garage (#403)
- One (1) unknown size* OWS located within the Stadium Drive Parking Garage (#218)
- One (1) unknown size* OWS located outside of the Regents Drive Parking Garage (#202)
- One (1) unknown size* OWS located outside of the Union Lane Parking Garage (#179)

  *UMD is currently working to determine the size of the OWSs associated with the parking garages. The SPCC will be updated to reflect this information when resolved.

The one (1) at UMD subject to the provisions of 40 CFR 112.7(c) and 40 CFR 112.7(b), (d) is the following:

- A 600-gallon OWS located within the dike at the Plant Operations and Maintenance (#006) fueling area is used in conjunction with the secondary containment dike.

In addition to the OWSs, UMD has twelve (12) food grease interceptors (FGI). FGIs are classified as wastewater pre-treatment equipment, which is not regulated according to 40 CFR 112.1(d)(6). Each FGI is located at a food service dining facility listed below:

- One (1) 7,500-gallon FGI tank is located in the loading dock of the South Campus Dining Hall (#026 SDH)
- One (1) 4,000-gallon FGI tank is located in the loading dock of the Stamp Student Union (#163 SSU)
- One (1) 1,800-gallon FGI tank is located in the upper parking lot island Denton Area Dining hall (#251)

- One (1) 1,800-gallon FGI tank is located in the parking lot of the Ellicott Area Dining Hall (#257)
- One (1) 4,000-gallon FGI tank is located in the interior loading dock of the Xfinity Center (#360)
- One (1) 1,500-gallon FGI tank is located in the rear patio of the Gossett Football Team House (#379)
- One (1) 1,800-gallon FGI tank is located at the rear of Capital One Maryland Stadium Tyser Tower (#361)
- One (1) 500-gallon FGI tank is located in the front stand #S023 of the Capital One Maryland Stadium Stand Concessions (#363)
- One (1) 1,800-gallon FGI tank is located in the exterior loading dock of the Golf Course Club House (#166)
- One (1) 275-gallon FGI tank is located in the interior mechanical room of the Clarice Smith Performing Arts Center (#386)
- One (1) 500-gallon FGI tank is located in the exterior loading dock of the Van Munching Hall (#039)
- One (1) 1,200-gallon FGI tank is located at the rear exterior of the University House Event Center (#164)

The OWSs are inspected on a monthly basis in accordance with the UMD procedures. Monthly inspections are completed using the Monthly Checklist in Appendix G. Solids, oils, and other sediments are removed from the OWSs, as needed, and appropriately disposed offsite. The engineering drawings for the OWS and associated piping are located in Appendix H.

The FGIs and food grease oil containers and drums are regularly maintained by UMD Dining Services. The FGIs are maintained monthly by a third-party contractor, Valley Proteins, Inc. The food grease oil containers and drums are recycled on an as-need basis by Valley Proteins, Inc.

3.4 DISCHARGE PREVENTION MEASURES

[40 CFR 112.7 (a) (3) (ii)] Measures taken to prevent discharge to navigable water include, but are not limited to:

- Design and maintenance of the secondary containment for oil storage containers described in this SPCC Plan.
- Inspections conducted in accordance with inspection schedules outlined in Section 3.9.
- Proper loading and unloading procedures outlined in Section 3.12 and Appendix I.
- Design and maintenance of bulk storage containers in accordance with 40 CFR 112.
- Design and maintenance of oil transfer systems and oil-filled operating equipment in accordance with 40 CFR 112.
- Annual training for all UMD personnel who handle oil products.

[40 CFR 112.7 (a) (3) (iii)] Secondary containment in compliance with 40 CFR 112.7 (c) is presented in Sections 3.7 and 4.3 of this SPCC Plan. In addition, UMD drainage is managed in compliance with 40 CFR 112.8 (b) as discussed in Section 4.1 of this SPCC Plan.

3.5 SPILL EVENTS

In the event of a non-hazardous or non-toxic spill, the operator shall utilize the following procedures:

1. Close any open valves and/or turn off all pumps.
2. Contain or prevent the migration of the spill without endangering yourself or other personnel. NOTE: DO NOT PUT YOURSELF OR EMPLOYEES IN LIFE THREATENING SITUATIONS.
3. The personnel on call shall classify the spill and check the Safety Data Sheets (SDS) for the hazard level. Refer to Section 2.1 regarding reporting requirements.
4. Clean up the spill.
    a. Oil: Place absorbent material on the spilled oil. After the oil has been absorbed, immediately remove the oil/absorbent mixture and dispose of properly.
    b. Fuel: Follow the SDS cleanup procedures. Spilled petroleum that contaminates soils will require excavation and proper remediation and restoration of the site.

[40 CFR 112.7 (a) (3) (iv) - (vi)]; [40 CFR 112.7 (a) (4)]; [40 CFR 112.7 (a) (5)] Figure 3 illustrates the process for discovery, notification, and response to an oil release. Discharges are classified as either "minor" or "major," depending on the volume and characteristics of the material released. Table 3 can be used to determine whether a discharge is to be classified as "minor" or "major." Contact lists and phone numbers are presented in Tables 4 and 5.

Table 3: Classification of Discharges

Minor Discharge *Discharge that poses no significant harm or threat to human health and safety or to the environment.*	• Quantity of discharge is small (typically involves less than 10 gallons of oil) • Discharged material is easily stopped and controlled at time of discharge • Discharge is localized near the source • Discharged material is not likely to reach water • Discharge poses little risk to human health or safety • There is little risk of fire or explosion
Major Discharge *Discharge that cannot be safely controlled or cleaned up by UMD personnel.*	• Quantity of discharge is large enough to spread beyond immediate discharge area • Discharged material enters water • Discharge requires special equipment or training to clean up • Discharge poses a hazard to human health or safety • There is risk of fire or explosion

Figure 3: Response Action Flowchart

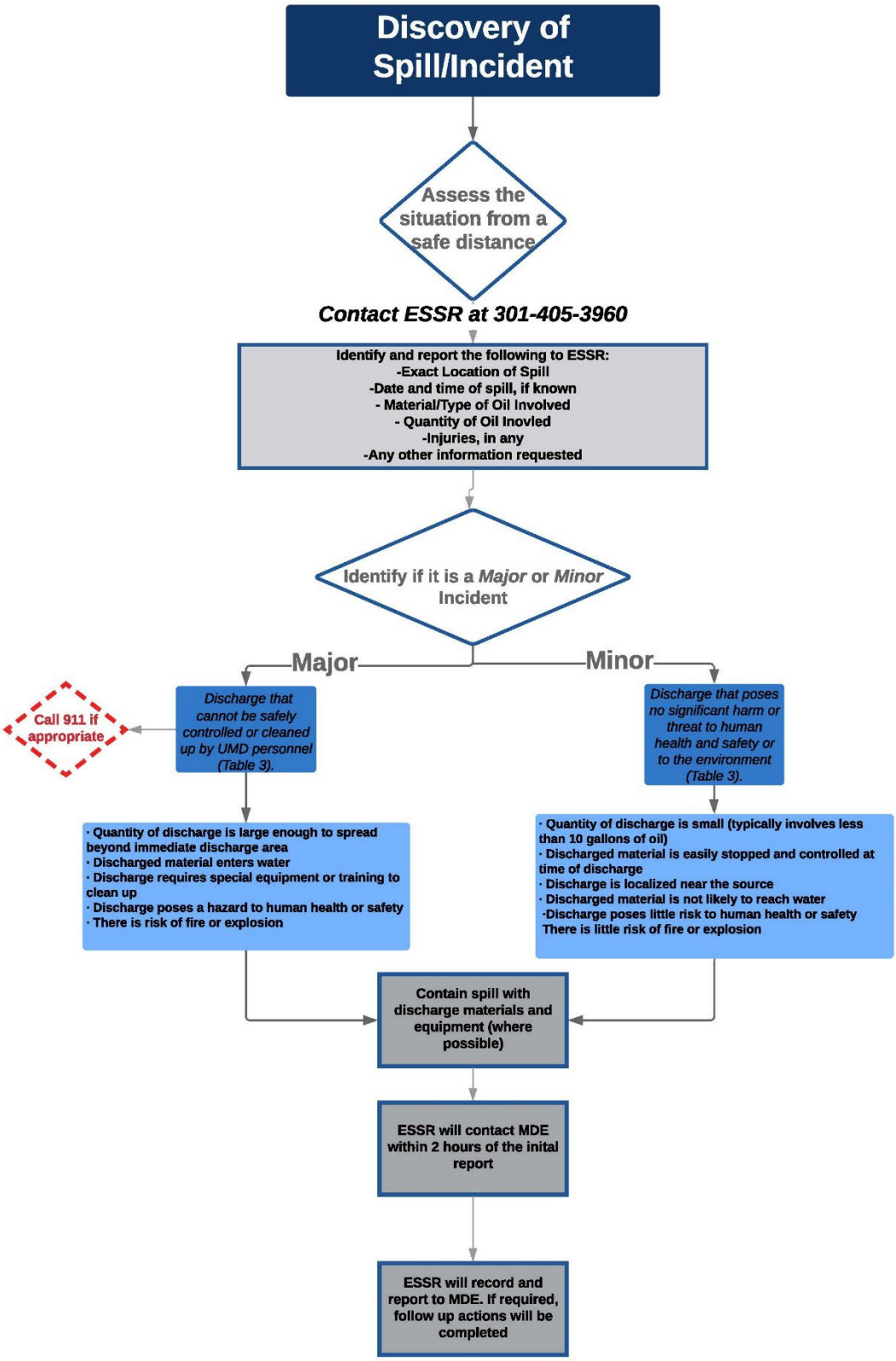


Table 4: University of Maryland Contacts List

Staff Names	Individual Responsibilities	Contact Info
Jason Baer, Assistant Director, Office of Environmental Affairs, UMD	Primary Contact; Maintain and Implement SPCC	(o) 301-405-3163 (c) 202-441-6391; jbaer123@umd.edu
Kaitlyn Peterson, Environmental Specialist, Office of Environmental Affairs, UMD	Primary Contact; Maintain and Implement SPCC; Perform Inspections; Conduct annual trainings.	(o) 301-405-8604 (c) 202-308-8273; Kpeter13@umd.edu
Mark Schultz, Coordinator for VPAF-FM-O&M-Electric, UMD	Secondary Contact; Implement proper filling procedures and spill response for generators.	(o) 301-405-2222 (c) 443-301-3837; mschult4@umd.edu
Mark Alexander, Operations Manager for College Park Energy, LLC	Secondary Contact; Implement proper filling procedures and spill response for transformers.	(o) 301-405-0426 (c) 240-241-3486, mark.alexander@engie.com
Gregory Thompson, Assistant Director, Dining Services	Secondary Contact; Implement proper filling procedures and spill response for dining services and FGIs.	(c) 240-417-5035 gkt@umd.edu
Martin Culp, Supervisor Construction, VPAF-FM-O&M-Electric, UMD	Secondary Contact; Implement proper filling procedures and spill response for elevators.	(o) 301-405-7074, mculp@umd.edu
Scott Lupin, Associate Director of Environmental Affairs, UMD	Tertiary Contact	(o) 301-405-3698; slupin@umd.edu
Maureen Kotlas, Executive Director, Department of Environmental Safety, Sustainability & Risk, UMD	Tertiary Contact	(o) 301-405-3960; mkotlas@umd.edu

Table 5: Off-Site Notification List

Agency	Phone Number
Local Police Department -College Park PD -UMD PD	(301) 405-3333 (301) 405-3555 or 911
Triumvirate Environmental	(800) 966-9282
National Response Center (NRC)	(800) 424-8802
MDE Emergency Spill Response	(866) 633-4686

3.6 POTENTIAL SPILL PREDICTIONS, VOLUMES, RATES, AND CONTROLS

[40 CFR 112.7 (b)] An overflow from ASTs could potentially occur during loading/unloading operations. To prevent overflows, the ASTs are to be continually attended during loading/unloading. Leaks could potentially occur from worn or corroded seals, valves, fittings, or walls.

All the tanks and containers at UMD could potentially rupture through acts of vandalism, extreme weather conditions, or an accidental strike by an object hard enough to penetrate the tank wall. Various measures discussed in this SPCC Plan are designed to prevent such releases and, should they occur, contain the released oil.

The rate of flow from any release is dependent on the type of spill, quantity of liquid that is discharged, and the slope of the land.

The majority of ASTs at UMD are located in areas that are flat with minimal relief. Any spill will be contained, cleaned up, and properly disposed of. All ASTs at UMD have secondary containment, fuel level indicators, and/or protection from vehicles. Associated piping and pipe supports are believed to be designed and installed by reputable companies. It is believed that the design and installation were in a manner that will minimize abrasion and corrosion and allow for expansion and contraction. In the event of associated piping leaking or suffering a catastrophic

event, the spill would be minimal and contained within the immediate area and subject to immediate clean up.

Appendices C-F contain the maximum amount of potential discharges (capacities), direction and location that a potential spill/discharge would travel, and the distance of each equipment from entering navigable waters. There are four (4) fuel transfer areas around the UMD campus:

- Loading and Unloading area at the Plant Operations and Maintenance (#006) parking lot K2
- Refueling area at Severn (#810) fueling island
- Refueling area at Shuttle Bus Facility (#424) fueling station
- 100-gallon UMD Mobile Refueler with a pump rate of 20 GPM

The stationary loading/unloading areas are equipped with zipper drains leading to an OWS in the event of a spill. A 3rd party contractor delivers fuel to the loading/unloading and refueling areas and are responsible for the transfer operations. In the event of a major equipment failure, spill kits are available within the vicinity. There are zipper drains surrounding the loading/unloading areas into their corresponding OWS. A 600-gallon OWS located within the dike at the Plant Operations and Maintenance (#006) fueling area is used conjunction with the secondary containment dike; a 1,600-gallon wastewater OWS is located in the northeast corner of the fueling island of the Severn Building (#810), and a 1,600-gallon wastewater OWS is located adjacent to the fueling area of the Shuttle Bus Facility (#424). The OWSs located at the Shuttle Bus Facility (#424) and the Severn Building (#810) are exempt as discussed in Section 3.3.6. Active measures are used to meet SPCC requirements at the unloading areas as described in Section 3.7

The mobile refueler is located in the bed of a truck and is used to refuel most of the ASTs around the UMD campus. The truck is equipped with a spill kit to contain and clean and spills. The mobile refueler is parked beneath a covered concrete pad in the Severn Building (#810) X1 parking lot.

A table of the transfer area fault analysis is located in Appendix F. This table does not consider the time it would take to respond to a spill (e.g., shutting off a pump, or closing a valve), that could greatly reduce the quantity discharged.

Further details on tank loading and unloading are discussed in Section 3.12.

3.7 CONTAINMENT AND DIVERSIONARY STRUCTURES

[40 CFR 112.7 (c)] The stationary ASTs at UMD have appropriate containment by use of secondary containment, dikes, or through the use of double wall tank construction. The secondary containment for these bulk storage tanks is in accordance with 40 CFR 112.8 (c) (2). Fulfilling this requirement also meets the general containment requirement of 40 CFR 112.7 (c) for these tanks.

UMD is currently equipped with emergency spill response kits. Each fuel tank location has a designated spill response kit that consists of at a minimum, but not limited to, personal protective equipment, oil absorbent booms and mats, approved containers for storage and removal of used spill response materials and equipment, emergency response directions and contact list. Additional details on the secondary containment systems are provided in Section 4.3.

The hydraulic elevators are each contained within a sealed room which is not equipped with floor drains. Secondary containment is determined to be impractical for the pad-mounted transformers as they are factory sealed electrical components that contain mineral oil for cooling purposes. EPA rules do not require the specific secondary containment requirements under 40 CFR 112.8(c) for oil-filled electrical equipment, such as a transformer, because they do not meet the definition of a bulk storage container in 40 CFR 112.2. However, they must meet the general secondary containment requirements under 40 CFR 112.7(c) or the alternative requirements for OFOE per 40 CFR 112.7(k). UMD will meet the alternative requirements under 40 CFR 112.7(k), which is discussed in Section 3.14.

Construction contractors on UMD property are expected, as a part of their contract, to have ample secondary containment for all of their heavy equipment and any additional ASTs with a storage capacity 55-gallons and above. UMD staff will routinely conduct a visual check to ensure the contractors are adhering with 40 CFR 112.8 (c) (2).

Secondary containment for mobile/portable tanks is addressed in Section 4.8.

Secondary containment for loading/unloading of fuels is met through active control measures and/or containment.

3.8 PRACTICABILITY OF CONTAINMENT

[40 CFR 112.7 (d)] UMD has determined that use of containment and diversionary structures or readily available equipment to prevent discharged oil from reaching navigable waters is practical

and effective at UMD. Additionally, UMD is implementing the alternative requirements for oil-filled operating equipment as allowed per 40 CFR 112.7(k), which is discussed in Section 3.14.

3.9 INSPECTIONS

[40 CFR 112.7 (e)] Monthly and annual inspections of ASTs in addition to the quarterly inspections of the 55-gallon drums are scheduled and completed by ESSR trained personnel and are performed using the inspection forms included in Appendix J.

55-gallon drums will be formally inspected on an alternative quarterly basis due to the high visibility and constant use of the 55-gallon drums. All oil filled drums are located within the vicinity of ASTs which are inspected on a monthly basis. The ESSR personnel conducting the monthly AST inspections will visually check the condition of the 55-gallon drums monthly and perform a formal inspection quarterly. The drums containing food-oil grease are emptied and visually inspected monthly by a 3rd party contractor who recycles the food-oil grease.

Additionally, if at any time problems are discovered during routine operations, the problem and corrective measures will be addressed by trained staff. Inspections are signed by the inspector and maintained electronically on the UMD computer network as well as hardcopies within the Seneca Building. Hardcopies will be stored for three (3) years as required.

Oil-filled electrical and operational equipment is inspected once a year by their designated section. Transformers are inspected by College Park Energy and records of those inspections are maintained within their office in the Central Heating Plant (Bldg. #001). Hydraulic elevators are inspected once a year by Elevator Shop staff of Facilities Management, and records of those inspections are maintained within the Elevator Shop office in South Campus Dining (Bldg. #026).

[COMAR 26.10.01.12 (B) (5)] This regulation requires visual inspection of all aboveground storage tanks, pipelines, valves, pumps, and associated components at least once a month. These inspections will be performed by ESSR staff as part of their regular work activities or while responding to preventative maintenance work orders and will be recorded on the Monthly Inspection Form included in Appendix J. All completed inspections will also be stored in an additional inspection binder on site.

3.10 TRAINING

[40 CFR 112.7 (f) (1)] ESSR will maintain, implement, and train all personnel who handles oil products annually. In addition, ESSR regularly trains its alternative personnel on spill prevention measures, cleanup procedures, reporting requirements and other important information from this SPCC Plan. Training materials and documentation are included in Appendix L. The training materials are also available online for on-demand access for UMD personnel who manage oil with a volume of 55-gallons or more. Records of the in-person training are stored electronically on the UMD computer network and the online training records are stored within either the BioRAFT training records or ESSR training database for each department.

[40 CFR 112.7 (f) (3)] Employees are to receive annual refresher training either online or at the regularly scheduled safety meetings. The following, at a minimum, are emphasized at these meetings:

- Familiarity with the SPCC Plan
- Changes in the SPCC Plan
- Spill prevention and response procedures
- Materials handling and storage
- Inspection and recordkeeping activities
- Any reported spills
- New management practices

3.11 SITE SECURITY

[40 CFR 112.7 (g)] The UMD oil storage is located within several facilities around the campus. Each facility handling, processing, or storing oil is locked and/or secured when the facility is unattended. The two (2) 252,762-gallon and one (1) 8,000-gallon tanks are located within a concrete diked area with limited access. Access to the associated fuel pumps access is limited to Facilities Management personnel. The University of Maryland University Police perform regular patrols on campus. UMD Public Safety also maintains an extensive camera monitoring system across campus.

All existing drain valves are locked in the closed position to prevent any discharge during non-operation or non-standby status.

All existing tanks and drums at UMD that have oil dispensers are kept in the locked/off position when the pump is in a non-operating or standby status.

The loading/unloading connections on pipelines are capped when not in service or when in standby service for an extended time.

Adequate lighting is provided. There is lighting around the buildings, storage facilities, and loading/unloading areas.

3.12 TANK LOADING/UNLOADING

[COMAR 26.10.01.12B] The UMD off-loading areas are located in Parking Lot # K2, adjacent to the Central Heating Plant (CHP) fuel tanks, in Parking Lot #X1 adjacent to the refueling area at Severn Building (#810) fueling island, the refueling area at the Shuttle Bus Facility (#424), and the mobile refueler owned and operated by UMD personnel.

Independent vendors operate the tank trucks; thus, the vendors are responsible for ensuring their operations are performed in accordance with applicable local, state, and federal regulations. The vendors are required to verify all truck drivers have proper training and must be US Department of Transportation (USDOT) licensed. All suppliers must comply with USDOT regulations in 49 CFR 177 and University standard operating procedures. Oil vendors must ensure that the driver understands the site layout, knows the protocol for entering the facility and unloading product, and has the necessary equipment to respond to a discharge from the vehicle or fuel delivery hose. Similar precautions are undertaken during the removal of used oil from the facility. Oil vendors are responsible for cleaning up any spills caused by their delivery operations. Prior to filling, the liquid levels of the AST must be measured, recorded using the checklist in Appendix I, and kept on record for at least 3 years.

The mobile refueler is used to refuel the diesel tanks associated with generators located throughout the UMD campus. The mobile refueler is equipped with a single-walled 100-gallon AST fixed within the bed of a truck. The truck has a spray-on liner in the bed along will spill response materials stored within the storage compartments. Liquid levels are checked prior to filling to minimize spills.

UMD is committed to ensuring the safe transfer of material to and from all oil storage tanks. Oil transfer on campus is either from a tanker truck to a bulk storage tank, the mobile refueler to a

storage tank, removal of food oil grease, or the unloading of drums of oil. Regardless, the potential for discharges during transfer operations is of concern at this facility.

[40 CFR 112.7 (h)] This section requires certain measures for tank car and tank truck loading/unloading racks. Although UMD does perform some loading/unloading activities, it does not operate a loading/unloading rack as defined in SPCC regulations. As a result, the requirements of this section do not apply.

3.13 BRITTLE FRACTURE ANALYSIS

[40 CFR 112.7 (i)] There are two (2) field-constructed oil ASTs located at the CHP. The two (2) 252,762-gallon #2 fuel oil bulk storage tanks were constructed in 1973 and 2001 respectively. Both tanks were originally built to API Standard 650. An API Standard 653 external In-Service inspection was conducted by a certified inspector every five (5) years until 2015. In 2015, an API Standard 653 internal inspection was performed by a certified inspector on tank 2A. In 2009, an API Standard 653 internal inspection was performed by a certified inspector on tank 2B. Currently, both tanks are in service and an API Standard 653 external In-Service inspection will continue to be completed every five (5) years and an API Standard 653 internal inspection will be completed every twenty (20) years.

If the two (2) 252,762-gallon #2 fuel oil bulk storage tanks undergo a repair, alteration, or reconstruction, they will be evaluated and inspected by a certified API inspector. In the event the tanks fail their inspection, appropriate actions will be taken to rectify the deficiencies.

3.14 ALTERNATIVE REQUIREMENTS FOR OIL-FILLED OPERATIONAL EQUIPMENT

[40 CFR 112.7 (k) (1-2)] UMD meets the qualification requirements listed in 40 CFR 112.7(k) (1) and therefore will use alternative requirements to secondary containment to prevent an oil discharge from the oil-filled operating equipment. The alternative requirements consist of:

- Establish and document the procedures for inspections and/or a monitoring program for detecting equipment failure and/or a discharge.
    - Transformers are visually inspected annually by College Park Energy. Inspections are maintained within the Central Heating Plant (Bldg. #001) facility.

  - Hydraulic Elevators are visually inspected annually by qualified elevator technicians from the Elevator Shop in UMD Facility Maintenance. Regular maintenance is conducted on an as-needed basis. Records are maintained within the Elevator Shop office in South Campus Dining (Bldg. #026).
- A written commitment of manpower, equipment, and materials needed to expeditiously control and cleanup any quantity of oil discharged that is harmful.

[40 CFR 112.7 (k) (2) (ii) (A)] This SPCC plan will serve as an oil spill contingency plan following the provisions of 40 CFR 109.

3.15 RECORDKEEPING

All documentation regarding inspections, training, spill reports, and any other requirements stated in this plan will be stored onsite for a period of at least three (3) years.

4.0 SPCC REQUIREMENTS FOR ON-SHORE FACILITIES

Since UMD is classified as a non-production facility, it is subject to the SPCC requirements listed in 40 CFR 112.8 and as addressed in the following sections.

4.1 CAMPUS DRAINAGE

[40 CFR 112.8 (b) (1 & 2)] There are three (3) stationary, diked oil/fuel storage areas at UMD. All drain valves are maintained in the normal closed position and all retained rainwater will be inspected/tested prior to discharge by/under the supervision of a responsible person. Records of the discharge event are maintained in accordance with this SPCC. The dike drainage form is located within Appendix M. The 100-gallon truck mounted tank is stored in a truck bed equipped with a spray on liner and the truck is equipped with a spill kit.

[40 CFR 112.8 (b) (3-5)] The regulations specify performance requirements for systems used to drain undiked areas with the potential for a discharge. These provisions apply only when the facility owner/operator chooses to use a facility drainage system to meet general secondary containment requirements under 40 CFR 112.7(c) or a more specific containment requirement under 40 CFR 112.7(h)(1), 112.8(c)(2) or 112.12(c)(2). UMD does not use a facility drainage system to meet general secondary containment requirements and therefore, these regulations do not apply.

4.2 MATERIALS AND CONSTRUCTION

[40 CFR 112.8 (c) (1)] All of the stationary ASTs are constructed of metal. 55-gallon drums are constructed of either metal or high-density polyethylene (HDPE) plastic. All ASTs and drums are compatible with the liquids that they contain. The ASTs are also suitable for the pressure and temperature conditions that they encounter.

4.3 SECONDARY CONTAINMENT

[40 CFR 112.8 (c) (2)] All of the ASTs at UMD have proper containment through double-walled construction or specific secondary containment measures. Refer to Appendix C with the details of each tank and its secondary containment.

[40 CFR 112.8 (c) (3)] There are three (3) stationary, diked oil/fuel storage areas at UMD. The 100-gallon truck mounted tank is stored in a truck bed equipped with a spray on liner and the truck is equipped with a spill kit. This tank and diked areas are discussed in Section 4.1.

4.4 CORROSION PROTECTION

[40 CFR 112.8 (c) (4)]; [40 CFR 112.8 (c) (5)] UMD has no USTs and no partially buried tanks.

4.5 TANK TESTING AND INSPECTIONS

[40 CFR 112.8 (c) (6)] Each AST will be visually inspected and subjected to integrity testing such as hydrostatic, radiographic, ultrasonic, acoustic emissions, or other non-destructive shell testing if required. The frequency of inspections and integrity testing is based on the tank manufacturer's recommendations in addition to the Steel Tank Institute (STI) SP001 standard and the American Petroleum Institute (API) 653 standard. Visual inspections will be done at least once a month by ESSR staff in addition to the annual inspections that are done using the inspection forms provided in Appendix J.

All tanks with double-walled containment should have the interstitial space monitored annually to ensure that the inner tank has not failed and remove condensation that could cause corrosion. Integrity testing of all tanks is also needed whenever material repairs are made.

Figure 4 below is the STI SP001 5th Edition schedule of formal inspections required.

Figure 4: Table of Inspection Schedules from SP001

AST Type and Size (U.S. gallons)		Category 1: with spill control and CRDM	Category 2: with spill control, without CRDM	Category 3: without spill control, without CRDM
Shop-Fabricated ASTs	0 – 1100 (0-4164 liters)	P	P	P, E&L(10)
	1101 - 5,000 (4168-18,927 liters)	P	P, E&L(10)	[P, E&L(5), I(10)] or [P, L(2), E(5)]
	5,001 - 30,000 (18,931-113,562 liters)	P, E(20)	[P, E(10), I(20)] or [P, E(5), L(10)]	[P, E&L(5), I(10)] or [P, L(1), E(5)]
	30,001 - 50,000 (113,566-189,271 liters)	P, E(20)	P, E&L(5), I(15)	P, E&L(5), I(10)
Field-erected AST		P, E(5), I(10)	P, E&L(5), I(10)	P, E&L(5), I(10)
Portable Containers		P	P	P

*Note the following:

Continuous Release Detection Method (CRDM)

P – Periodic AST inspection (PI)

E – Formal External Inspection by certified inspector (FEI)

I – Formal Internal Inspection by certified inspector (FII)

L – Leak test by owner or owner's designee (LT)

( ) indicates maximum inspection interval in years. For example, E (5) indicates formal external inspection every five years.

Based on these requirements, seven (7) of the ASTs at UMD require additional inspections in accordance with STI SP001.

- One (1) 6,000-gallon double-walled diesel fuel tank at Lab for the Physical Sciences (#796) is required to have a formal external inspection once every twenty (20) years.
- One (1) 8,000-gallon diked double-walled diesel fuel tank at the Plant Operations and Maintenance (#006) is required to have a formal external inspection once every twenty (20) years.
- Two (2) 10,000-gallon double-walled gasoline fuel tanks at the Severn Building (#810) are required to have a formal external inspection once every twenty (20) years.
- One (1) 10,000-gallon double-walled E-85 fuel tank at the Severn Building (#810) is required to have a formal external inspection once every twenty (20) years.
- One (1) 12,000-gallon double-walled #2 fuel oil tank at the Severn Building (#810) is required to have a formal external inspection once every twenty (20) years.
- One (1) 20,000-gallon double-walled diesel fuel tank at the Shuttle Bus Facility (#424) is required to have a formal external inspection once every twenty (20) years.

The two (2) 252,762-gallon #2 fuel oil bulk storage tanks at the Plant Operations and Maintenance (#006) were constructed in 1973 and 2001 respectively. Both tanks were originally built to API 650 standard. These two ASTs will be inspected in accordance with the API 653 standard. These tanks are required to have monthly routine in-service inspections, a formal external inspection once every five (5) years and an internal inspection once every twenty (20) years (or sooner based on the inspection results).

API 653 standard dictates the internal inspections shall not exceed 10 years unless the tank has one of more leak prevention, detection, corrosion mitigation or containment safeguards.

The two 252,762-gallon #2 fuel oil bulk storage tanks at the Plant Operations and Maintenance (#006) are currently on a twenty (20) year internal inspection schedule with the next internal inspection scheduled for 2029.

Mobile/portable containers, such as 55-gallon drums, are visually inspected quarterly.

Records of inspections and testing are kept on site and are stored electronically on the UMD computer network

[40 CFR 112.8 (c) (7)] This section is not applicable because there are no internal heating coils used on the ASTs at UMD.

4.6 TANK INSTALLATION FAIL-SAFE ENGINEERED

[40 CFR 112.8 (c) (8)] The ASTs at UMD have visual level gauges and all tanks are constantly attended while being filled. Mobile/portable containers are visually checked prior and after being filled.

[40 CFR 112.8 (c) (8) (v)] Level gauges are visually inspected monthly to ensure proper operation and tested annually for accuracy for all ASTs.

4.7 EFFLUENT MONITORING AND VISIBLE OIL LEAKS

[40 CFR 112.8 (c) (9)] This section is not applicable to UMD because there are no treatment facilities at this location.

[40 CFR 112.8 (c) (10)] All oil leaks from piping, tanks, process equipment (including, but not limited to, seams, gaskets, piping, pumps, valves, rivets and bolts), are immediately reported to the ESSR office and properly reported in accordance with UMD oil response procedures. Immediate attention will be given to stopping and repairing the leaking equipment. The area where the release occurs shall be cleaned up and the site restored.

4.8 MOBILE OR PORTABLE OIL STORAGE TANKS

[40 CFR 112.8 (c) (11)] There is one (1) portable storage tank at UMD. One (1) 100-gallon diesel fuel tank is mounted in the bed of a truck. The truck bed is equipped with a spray on liner and contains a spill kit in the event of a spill. The portable fuel tank is used to transport fuel to refuel the generator tanks around the campus. When not in use, the portable fuel tank is parked beneath a covered concrete pad adjacent to the X1 parking lot at the Severn Building (#210). A spill sock is placed at the low point of the concrete pad where it drains to the parking lot to prevent oil from reaching the stormwater system.

UMD has multiple 55-gallon drums around the campus. The exact number varies day to day. Section 3.3.4 lists the various locations where the 55-gallon drums are stored. Where the 55-gallon drums are located outdoors, they are contained either within a storage shed on top of a spill pallet, a 2 drums low-profile workstation, or a single 95-gallon salvage drum. Based on the number of 55-gallon drums stored indoors, appropriately sized spill pallets are being utilized.

4.9 BURIED AND OUT OF SERVICE PIPE

[40 CFR 112.1 (d) (6)] The buried piping for the OWS tanks to treat wastewater are exempt from protective wrapping, coating, and cathodic protection.

[40 CFR 112.8 (d) (1)] UMD does not have any USTs nor out of service piping. UMD does have underground double-walled piping located at the Severn Building (Bldg. # 810). The alarm system for the interspatial monitoring system is inspected monthly in compliance with the Oil Operations Permit (Permit # 2018-OPT-6551). The underground double-walled piping was installed prior to 2002 and therefore, is exempt from this regulation.

Additionally, UMD has underground supply and return lines for the 252,762-gallon #2 Fuel Oil tank 2A. The supply and return lines had precision tightness testing completed in September of 2014. The test detects a 0.10 gallon per hour release of oil at 1.5 times the operating pressure and performed for a minimum of 1 hour.

The supply and return line piping were installed prior to 2002 and therefore, is exempt from protective wrapping, coating, and cathodic protection requirements.

UMD has a 600-gallon OWS located within the dike at the CHP fueling area. The OWS is inspected monthly by CHP personnel in compliance with the 40 CFR 112.8(c)(6). The buried piping for the OWS at the CHP was installed prior to 2002 and therefore, is exempt from this regulation.

Oil associated piping engineering drawings are located in Appendix H.

[40 CFR 112.8 (d) (2)] If a section of pipe is taken out of service for an extended period of time, it shall be blind-flanged or capped.

4.10 PIPE SUPPORTS DESIGN

[40 CFR 112.8 (d) (3)] All above ground pipe supports at UMD have been properly designed to minimize abrasion and corrosion and to allow for expansion and contraction of the pipes. Available engineering drawings are located in Appendix H. All other oil associated piping is depicted on the SPCC facility map (Figure 2).

4.11 ABOVEGROUND PIPING

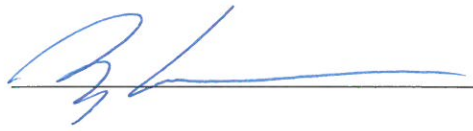
[40 CFR 112.8 (d) (4)] The aboveground piping, valves, pipe fittings, drip pans, pipe supports, and other associated appurtenances serving the ASTs will be inspected monthly with more detailed inspections done annually using the checklists in Appendix J. There are ten (10) ASTs that have aboveground piping, These ASTs and piping are identified on the SPCC facility map (Figure 2).

[40 CFR 112.8 (d) (5)] Employees and contractors are aware of the hazards near the truck unloading areas. If an area onsite is observed to be in danger of being damaged by vehicular traffic, guard posts, or other precautionary measures will be employed.

5.0 SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN CERTIFICATION

[40 CFR 112.3 (d) (1)] I hereby certify that I or an employee of Trinity Consultants have visited and examined University of Maryland (UMD) at College Park, and being familiar with the provisions of this Spill Prevention, Control, and Countermeasures (SPCC) regulations codified at 40 Code of Federal Regulations (CFR) Part 112 et seq. (40 CFR 112) and this SPCC plan, attest that this carefully thought-out SPCC plan was prepared in accordance with good engineering practices, including consideration of applicable industry standards and with the requirements of 40 CFR 112. Procedures for required inspections and testing have been established and this plan is adequate for this facility. Amendments subsequent to the date of this certification must be documented and certified, separately, by a Registered Professional Engineer as described in Section 2.0 of this plan.

Certifying Engineer: Divya Harrison, P.E.

Signature: 

Certification Date: November 11, 2019

Engineering Seal:

6.0 SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN MANAGEMENT APPROVAL

[40 CFR 112.7] We hereby certify that the management of UMD at College Park extends its full approval of this SPCC plan and will commit the necessary resources to fully implement it as described herein. We understand that although this plan has been certified by a Registered Professional Engineer; I, Carlo Colella as the Vice President for Administration & Finance maintain fiduciary responsibility for this SPCC Plan; and I, Maureen Kotlas, the Executive Director of Environmental Safety, Sustainability & Risk, maintain the authority to implement and enforce the preparation of this SPCC plan, ensure proper implementation of the provisions contained within, and compliance with the SPCC regulations. We certify that this SPCC plan will be reviewed and evaluated at least once every five years, as described and documented in Section 2.0 of this plan

Carlo Colella — 10.31.2019

Carlo Colella — **Date**

Vice President of Administration & Finance

Maureen Kotlas — 10-18-2019

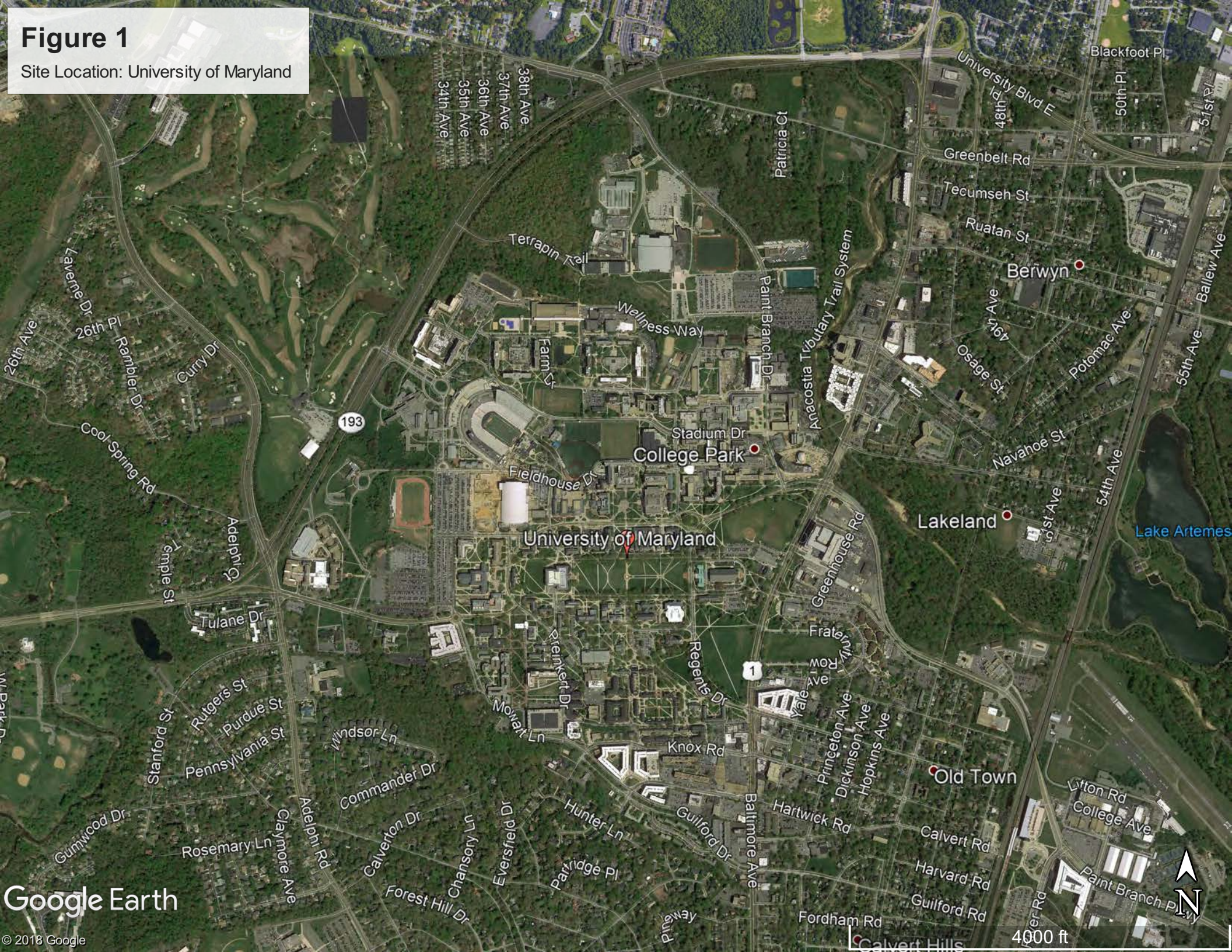
Maureen Kotlas — **Date**

Executive Director, Department of Environmental Safety, Sustainability & Risk

Figure 1
Site Location Map

Figure 1

Site Location: University of Maryland



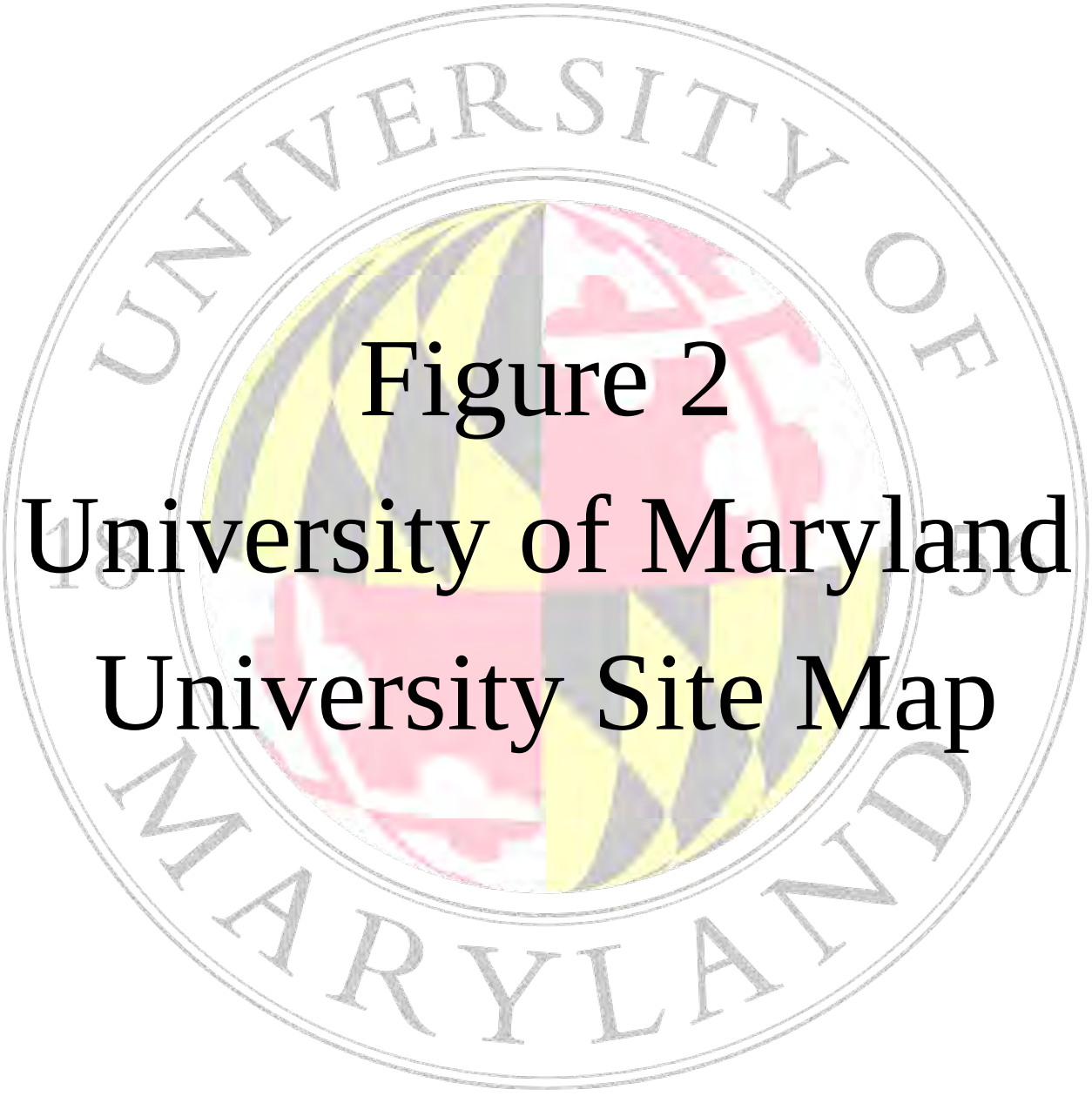


Figure 2
University of Maryland University Site Map

2019 SPCC Map Edit Log

Review/ Revision Date	Details / Comments	Amended Plan (Y/N)	Signature
Oct-19	2019 SPCC Map	NA	

UNIVERSITY OF
MARYLAND

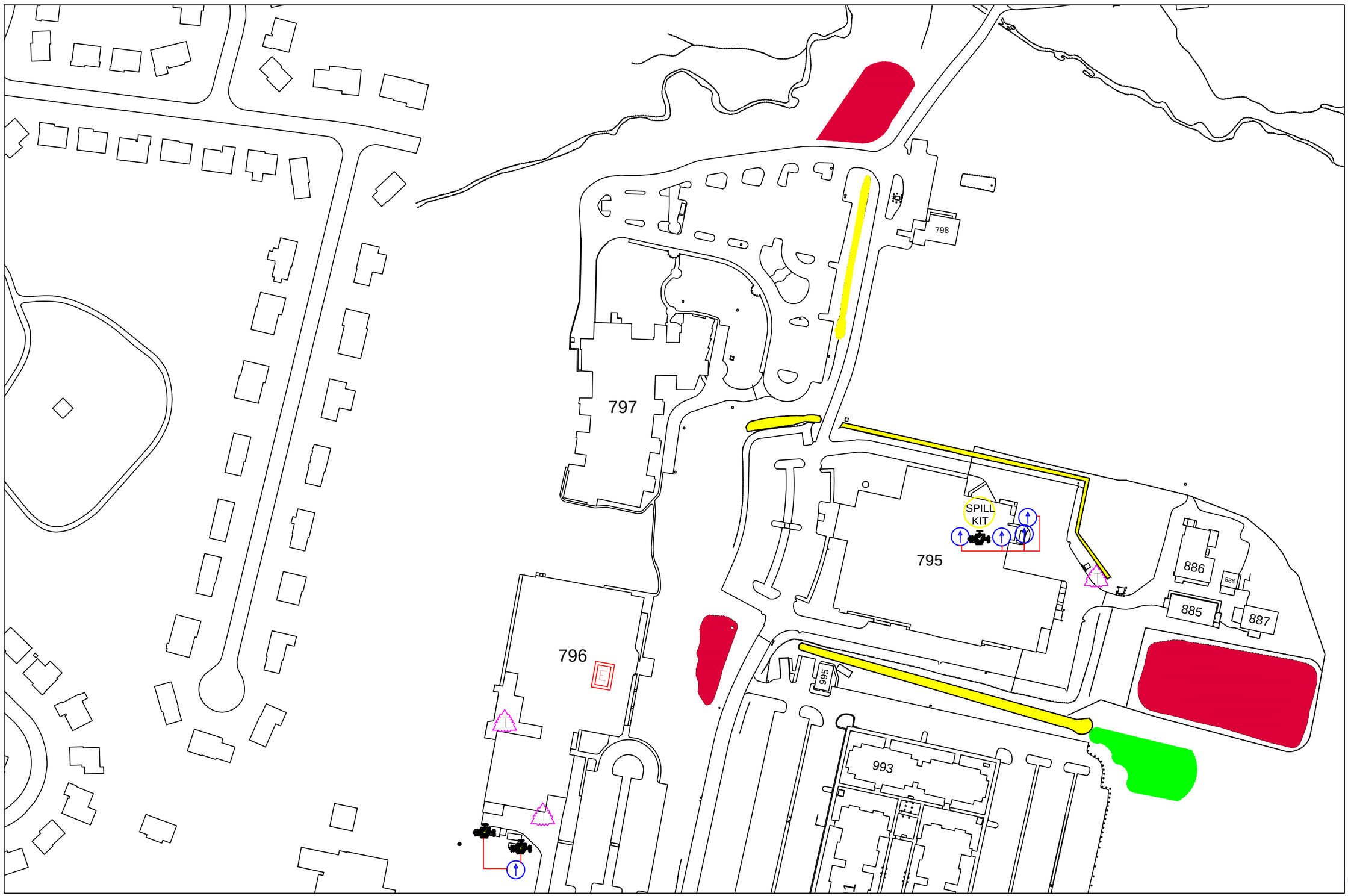
SPCC

LEGEND	SPCC
ABOVE GROUND PIPING	
ABOVE GROUND TANK	
DRUM STORAGE	
ELEVATOR	
FUEL DELIVERY AREA	
GENERATOR(DIESEL)	
GENERATOR(PORTABLE)	
GREASE CONTAINER	
NPDES OUTFALLS	
OIL/WATER SEPARATOR	
SPILL KIT	
STORMCEPTOR	
TRANSFORMER	
TURBINE & COMPRESSOR	
UNDERGROUND PIPING	
UNDERGROUND TANK	

LEGEND	STORM FEATURE PRIMARY TYPE
BIORETETION	
DRY WELL	
ENHANCED FILTER	
INFILTRATION PRACTICE	
LANDSCAPE INFILTRATION	
NON-STRUCTURAL BMP	
OTHER	
PERMEABLE PAVEMENT	
POND	
RAIN GARDEN	
RAINWATER HARVESTING	
REINFORCED TURF	
SAND FILTER	
SWALE	
UNDERGROUND STRUCTURAL TREATMENT	
WETLAND	
AREA UNDER CONSTRUCTION	

For above ground tanks not located at one of the three designated fuel unloading areas, the generator/tank shown on the map also represents that associated piping and unloading area for that tank.

SPCC



SHEET 1

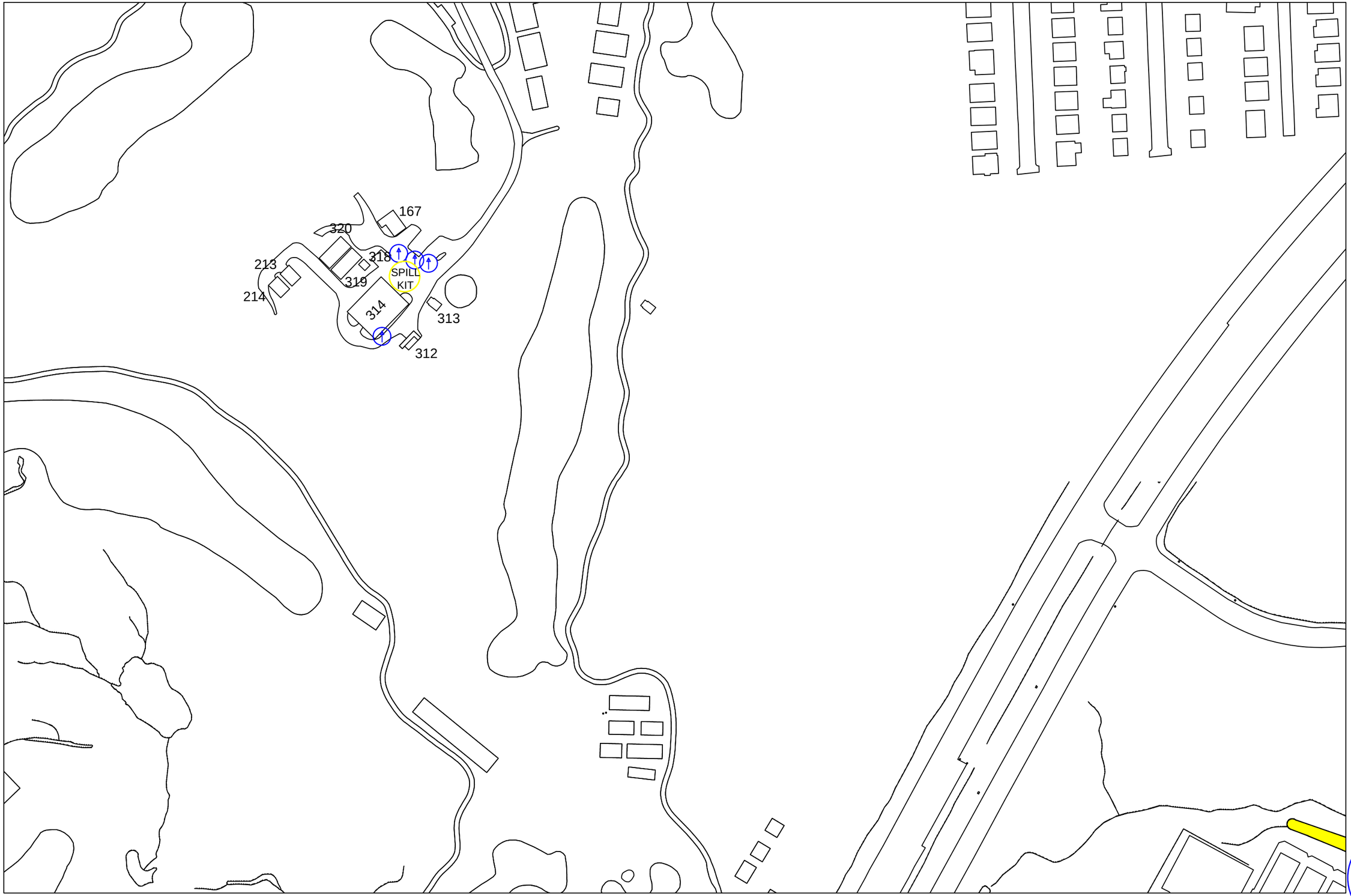
Scale: 1" = 150'

0 150 300 450 600

SHEET 4

SPCC

2



SHEET 2

SHEET 3

SHEET 5

N

338

398

344

SPILL KIT

426

428

327

124

328

SPILL KIT

360

403

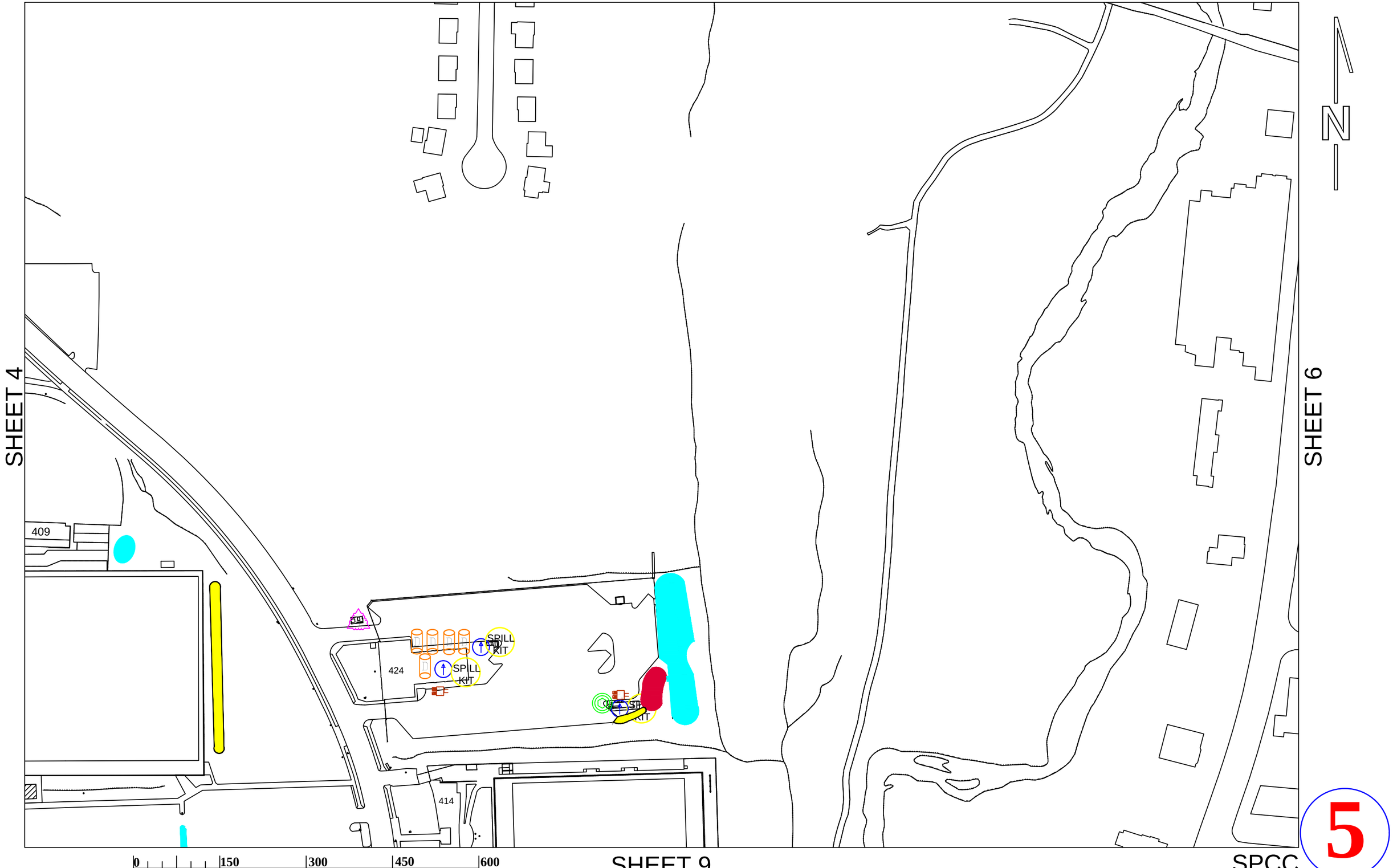
SHEET 8

SPCC

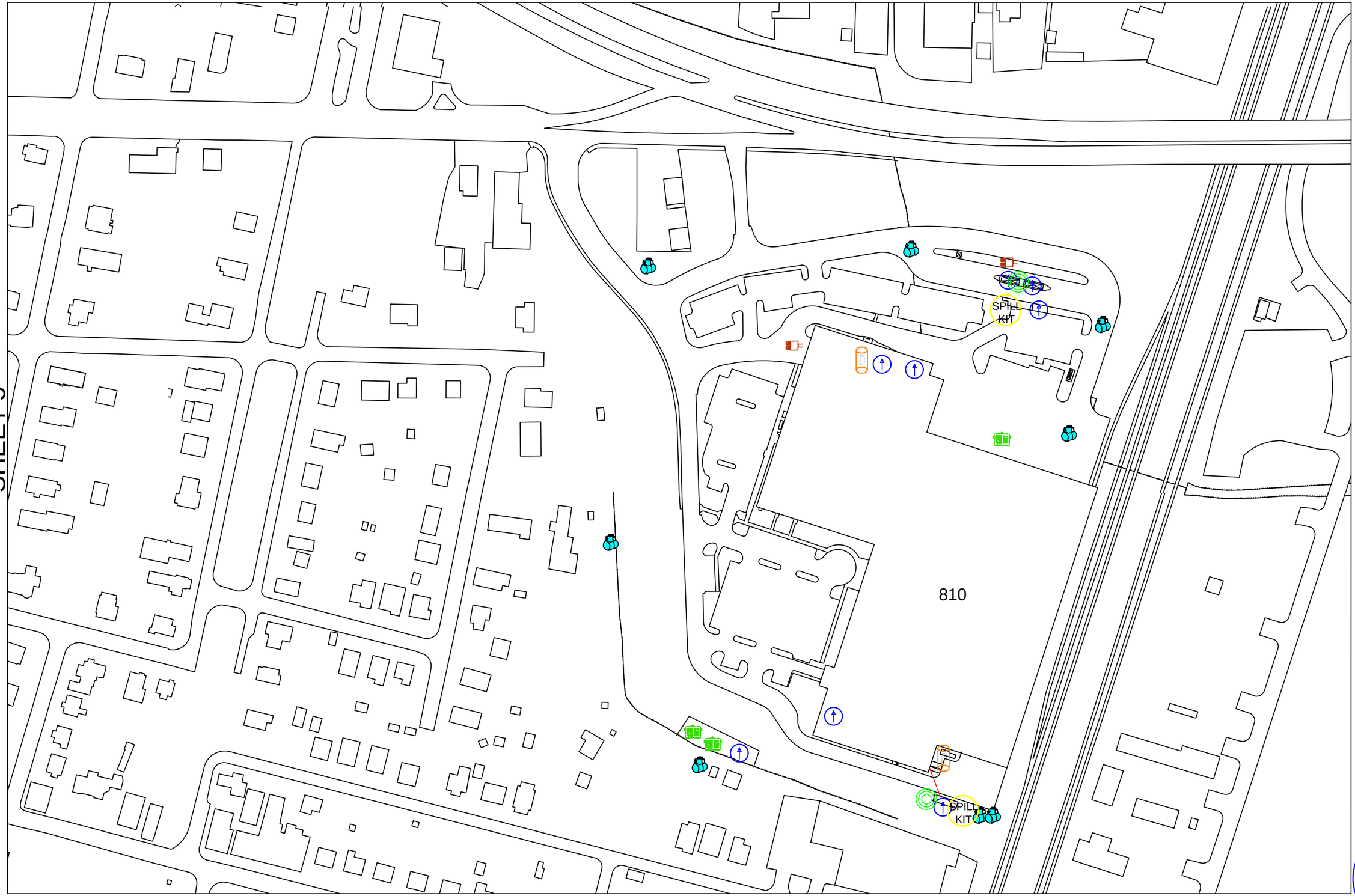
4

Scale: 1" = 150'

0 150 300 450 600



SHEET 5



Scale: 1" = 150'

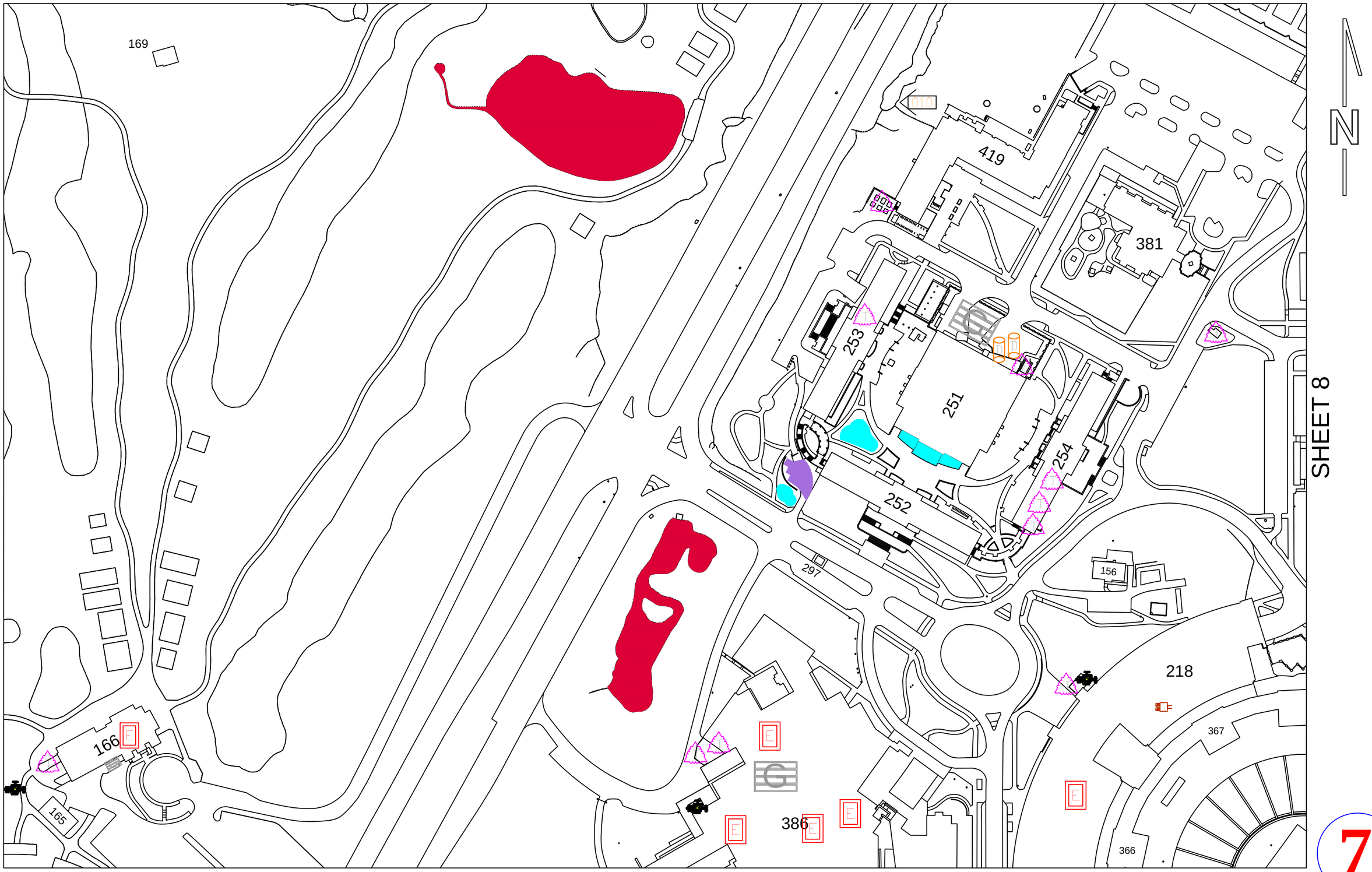
0 150 300 450 600

SHEET 10

SPCC

6

SHEET 3



Scale: 1" = 150'

0 150 300 450 600

SHEET 11

SPCC

7

SHEET 4

SHEET 7

SHEET 9

N

068

399

255

255

121

099

257

259

122

097

098

256

096

110

119

103

102

108

109

142

142

368

227

224

224

415

085

SHEET 12

SPCC

8

Scale: 1" = 150'

0 150 300 450 600

SHEET 5

SHEET 8

SHEET 10

SHEET 13

SPCC

9

N

414

813

814

148

382

296

387

142

057

087

429

223

225

115

093

004

Scale: 1" = 150'

0 150 300 450 600

SHEET 6

812

SHEET 9

N

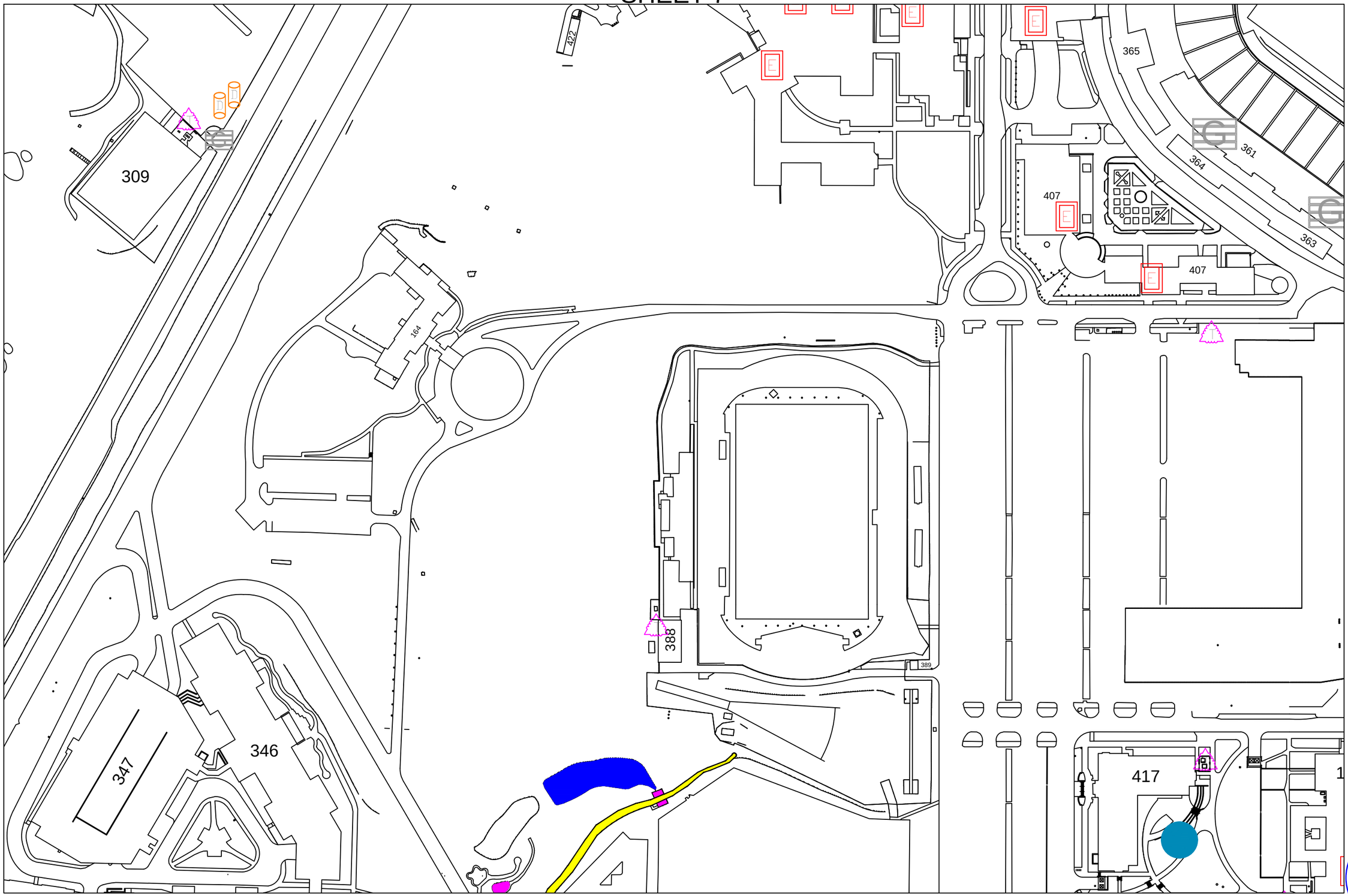
Scale: 1" = 150'

0 150 300 450 600

SPCC

10

SHEET 7



SHEET 12

Scale: 1" = 150'

0 150 300 450 600

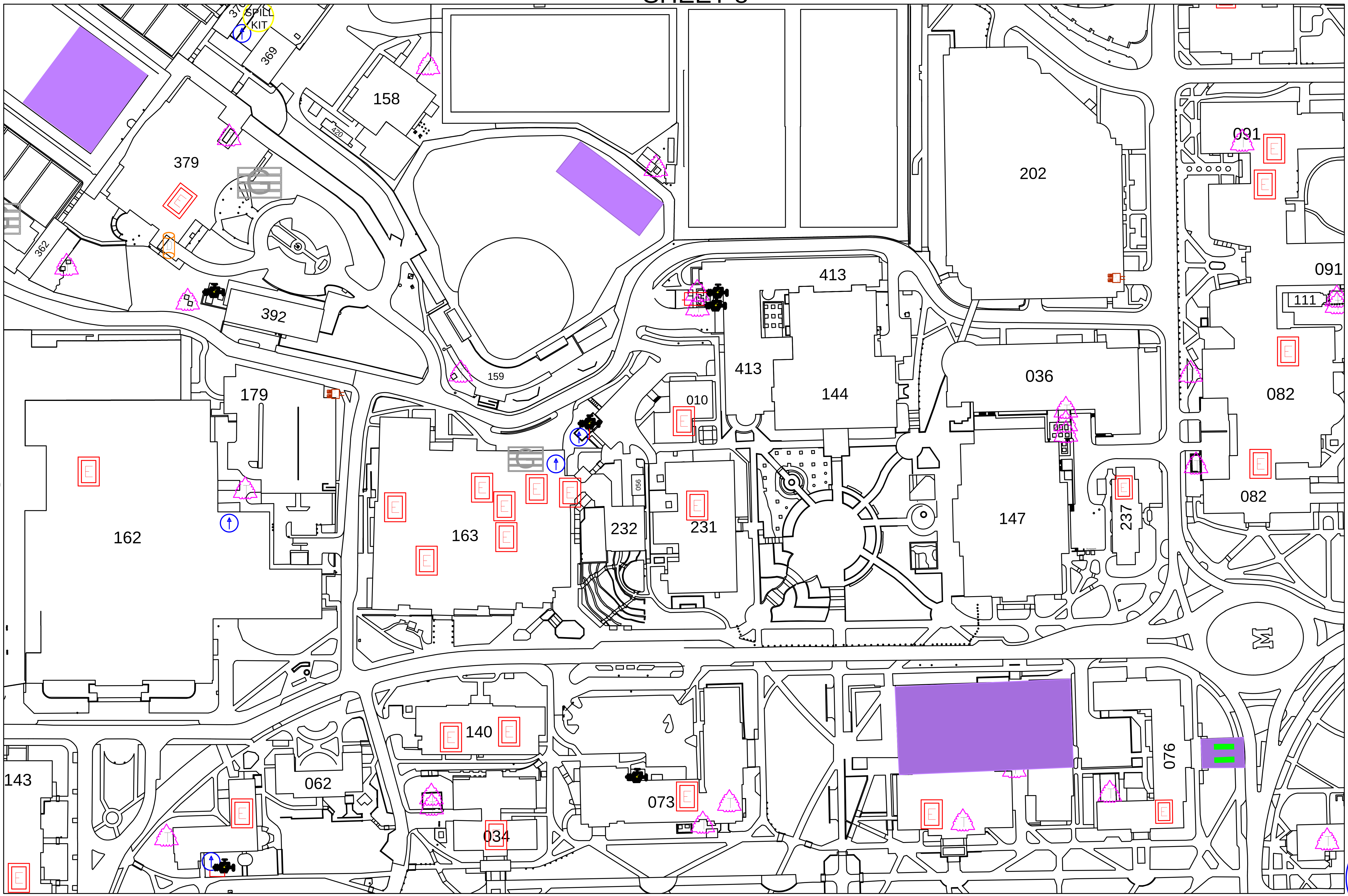
SHEET 14

SPCC

11

SHEET 8

SHEET 11



SHEET 13

SHEET 15

Scale: 1" = 150'

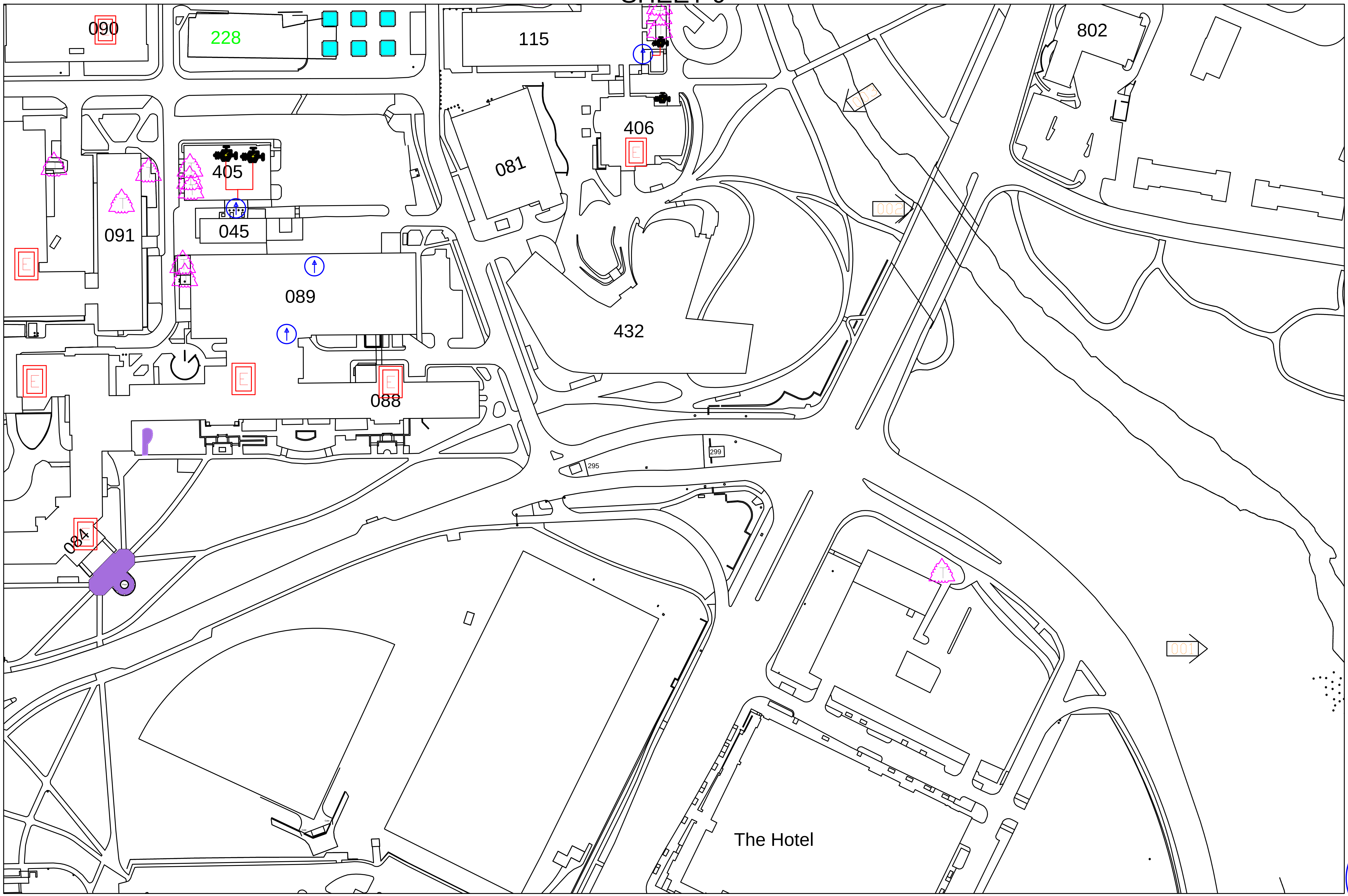
0 | 150 | 300 | 450 | 600

SPCC

12

SHEET 9

SHEET 12



SHEET 16

Scale: 1" = 150'

0 150 300 450 600

SPCC

13

C:\Users\wdelpino\appdata\local\temp\AcPublish_12388\SPCC_19 Page -11X17Book-2019(mstr)2.dwg -- 020-sht 13_7500, Last Update : 10/11/19 - 11:13am, Opened: 10/11/19 - 1:22pm

SHEET 11

348

345

141

416

146

DOMAIN COLLEGE PARK

145

UNITED METHODIST CHURCH (3621)

400

PEPCO POWER STATION (7706)

973

HILLEL JEWISH CENTER

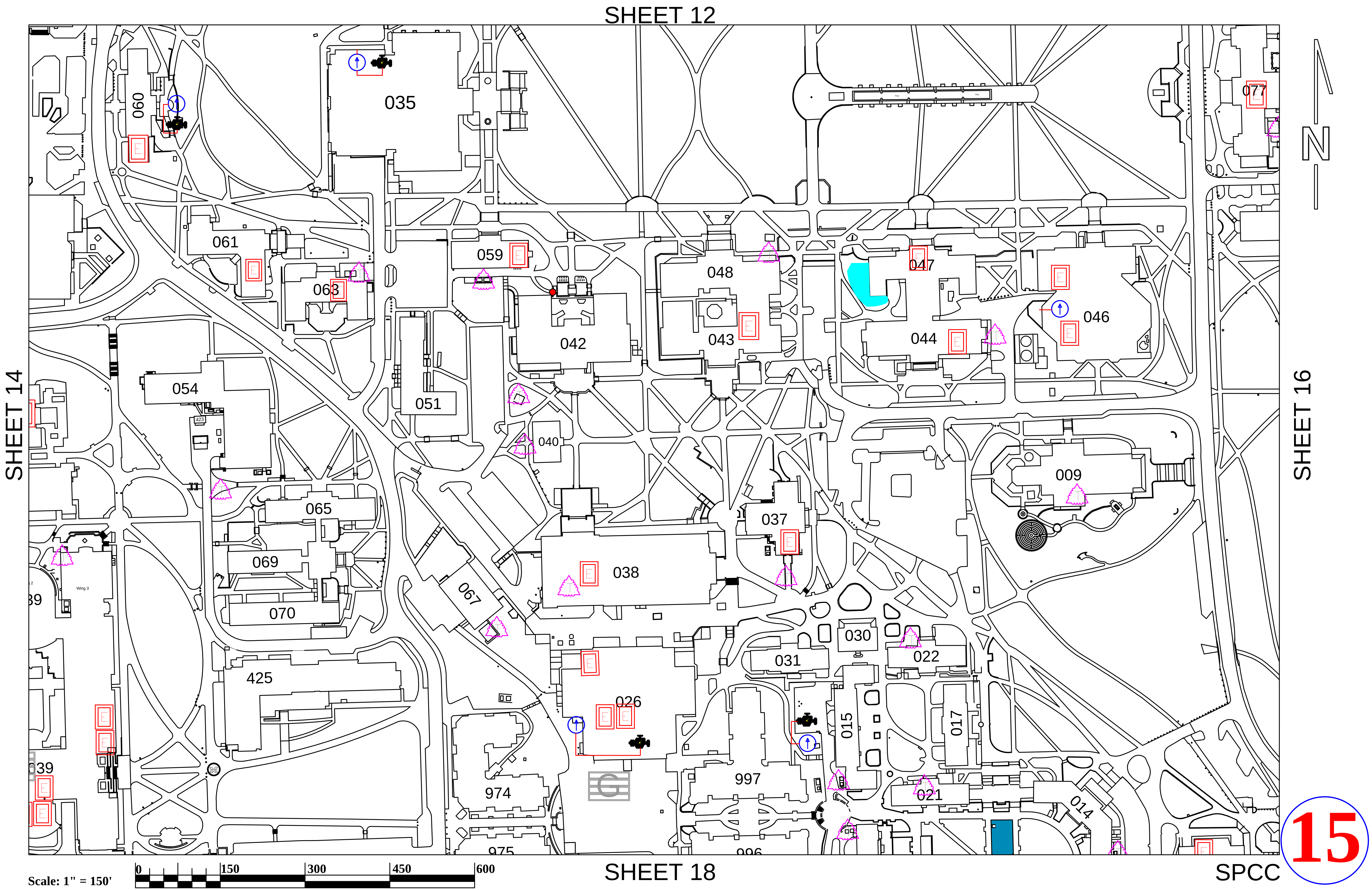
N

SHEET 15

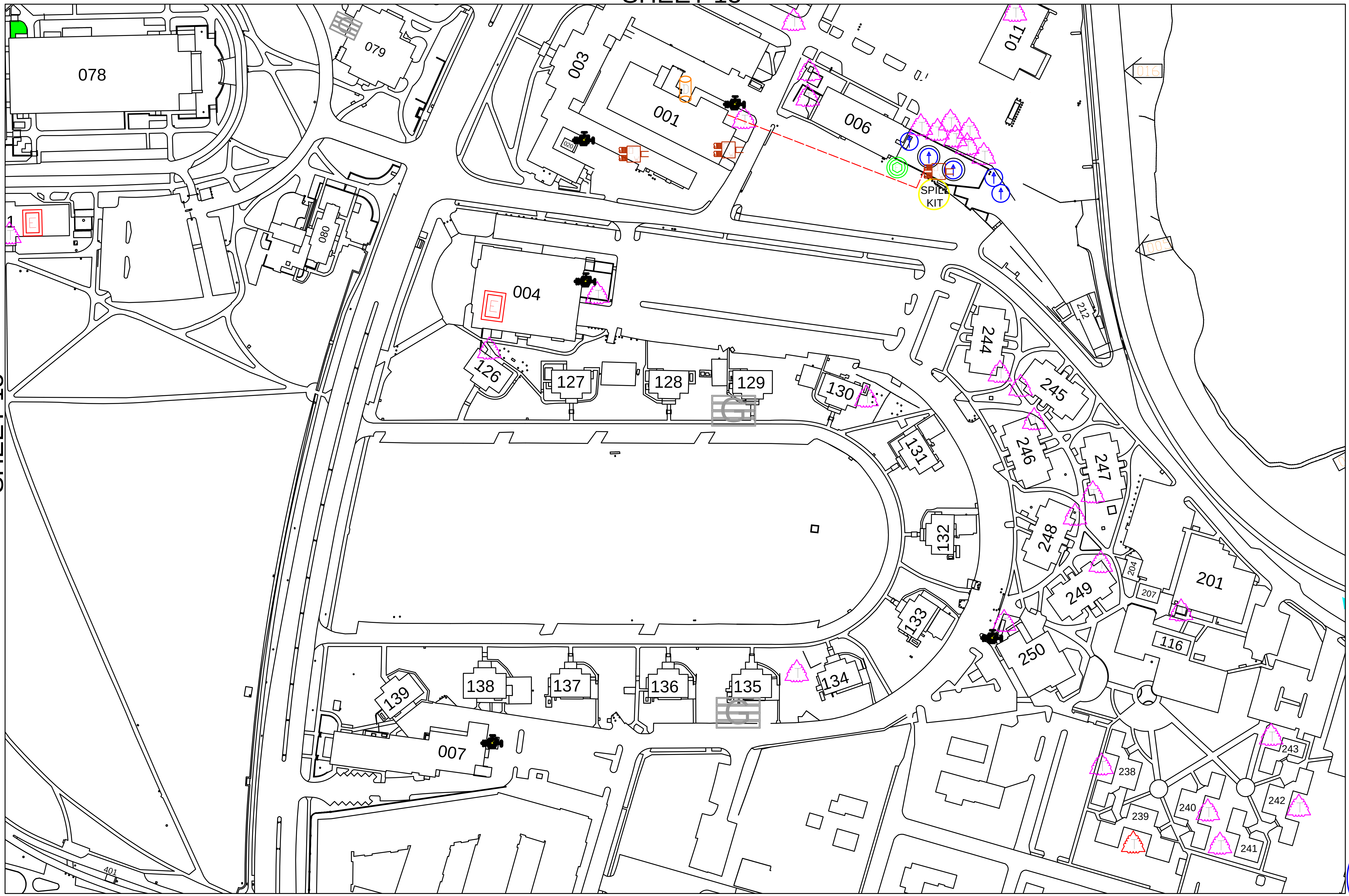
Scale: 1" = 150'

0 150 300 450 600

SPCC 14



SHEET 15



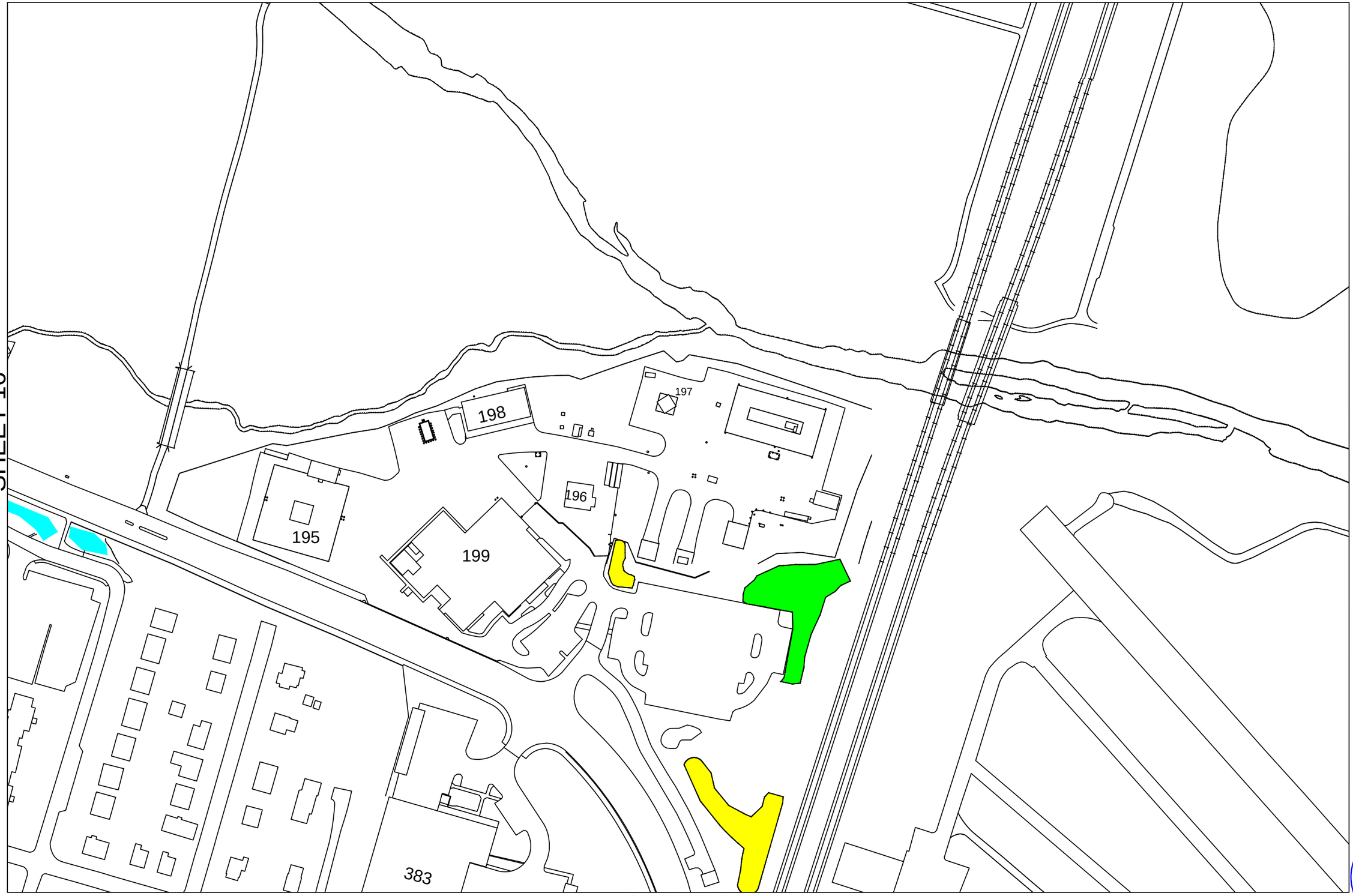
SHEET 17

Scale: 1" = 150'

0 150 300 450 600

SPCC

SHEET 16



N

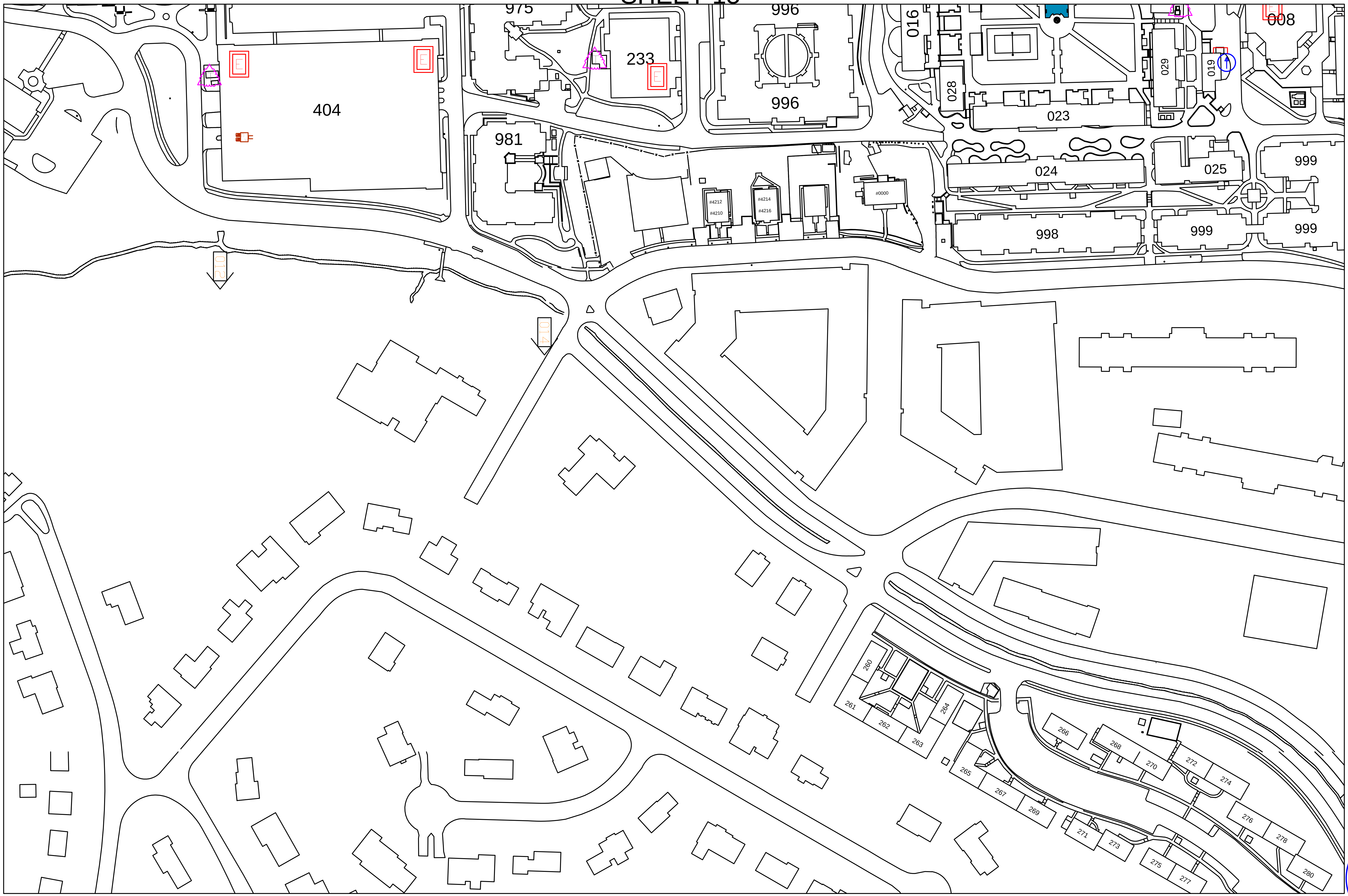
Scale: 1" = 150'

0 150 300 450 600

SHEET 20

SPCC 17

SHEET 15



SHEET 19

N

Scale: 1" = 150'

0 150 300 450 600

SPCC **18**

SHEET 16

SHEET 18

SHEET 20

032

COLLEGE PARK SHOPPING CENTER

172

171

170

176

173

174

175

N

Scale: 1" = 150'

0 150 300 450 600

SPCC

19

SHEET 14

SHEET 19

N

806

Scale: 1" = 150'

0 150 300 450 600

SPCC

20

Appendix A
Spill Reporting Forms & Procedures

MARYLAND DEPARTMENT of the ENVIRONMENT
1800 WASHINGTON BOULEVARD
BALTIMORE , MARYLAND. 21230
(410) 537-3000
1-800-633-6101 (within Maryland)
http://www.mde.state.md.us

State of Maryland
Department of the Environment
Emergency Response Division
1800 Washington Blvd. Suite #105
Baltimore , Maryland. 21230-1721

24 HOUR SPILL REPORTING
(Toll Free) 1-866-633-4686
EMERGENCY RESPONSE OFFICE
(410) 537-3975
RESPONSE OFFICE FACSIMILE
(410) 537-3932

PURSUANT TO THE PROVISIONS OF STATE LAW AND REGULATION; (COMAR 26.10.01.03) "A PERSON DISCHARGING OR PERMITTING THE DISCHARGE OF OIL, OR WHO EITHER ACTIVELY OR PASSIVELY PARTICIPATES IN THE DISCHARGE OR SPILLING OF OIL, EITHER FROM A LAND BASED INSTALLATION, INCLUDING VEHICLES IN TRANSIT, OR FROM ANY VESSEL SHIP OR BOAT OF ANY KIND, SHALL REPORT THE INCIDENT IMMEDIATELY TO THE ADMINISTRATION." " THE REPORT OF AN OIL SPILL OR DISCHARGE SHALL BE MADE TO THE ADMINISTRATION IMMEDIATELY, BUT NOT LATER THAN TWO HOURS AFTER DETECTION OF THE SPILL." *** * * *FIRE DEPARTMENT PERSONNEL , SEE REVERSE* * * ***

ADC Map Coord _____

Date of spill: Mo. __ __ / Day __ __ / Yr. 20 __ __ Time of spill: __ __ __ __ Hours (24 hour clock)

Fire Department Report No.: _____ Police Department Report No.: _____

Location of spill - Street address:
_____
_____
City / Town _____
MD County _____
Zip _____

Product Name:
_____
(Indicate Gasoline, Diesel, Heating Oil, Chemical Name or UN ID etc.)
Container Type:
_____
(Indicate AST, UST, Transformer, Saddle Tank, Drum etc.)

Capacity of Vessel, Vehicle or Tank:
_____ Gallons
Amount ***IN*** Vessel, Vehicle or Tank:
_____ Gallons
Estimated ***Amount Spilled:***
_____ Gallons

Transportation Incident:
_____
(Indicate Type of Auto, Truck, Train, Aircraft or Watercraft etc.)
Fixed Facility Incident:
_____
(Indicate Type of Industrial , Commercial , Residential etc.)

- ☐ Contained on Land
- ☐ Entered Storm Drain or Ditch
- ☐ Entered Sanitary Sewer
- ☐ Is Below Ground
- ☐ Entered surface waters: _____ (Waterway Name)

Vehicle Tag Number and State:
_____ _____
DOT or ICC MC Number:
_____
Hull Numbers and Name**:**
_____ _____

Person(s) Responsible for Spill: (Driver if Vehicle)
Name:_____
Address:_____
_____
City/State: _____ Zip: _____
Phone: _____
Drivers Lic.No._____ State:_____

Be Sure to Complete Both Sections
Don't Forget to Sign Below

Company Responsible for Spill: (N/A if private citizen.)
Name:_____
Address:_____
_____
City/State: _____ Zip: _____
Phone: _____
Fed. Employer ID No. _____

Cause of Spill:
- ☐ Motor Vehicle Accident
- ☐ Personnel Error/Vandalism
- ☐ Tank/Container/Pipe Leak
- ☐ Mechanical Failure
- ☐ Transfer Accident
- ☐ _____

Identify All Groups that *Participated* in Spill Mitigation :
- ☐ Responsible Party
- ☐ **MDE ERD** # _____ # _____
- ☐ Federal : _____
- ☐ State : _____
- ☐ Local : _____
- ☐ Contractor: _____

Materials used *by You* to contain/clean-up spill:
Sorbent Dust: _____ Bags
Sorbent Pads: _____ each or bales
Sorbent Booms: _____ each or bales
Sorbent Sweeps: _____ each or bales
Overpack Drums : _____ ea. Steel or Poly
Other:_____

Responsible Party : Describe circumstances contributing to the spill. (Additional space on back) [Optional for FD or Gov't Personnel]

Responsible Party : Describe Containment , Removal and Clean-up operations , including disposal. (Additional space on back) [Optional for FD or Gov't Personnel]

Responsible Party : Procedures, Methods and Precautions instituted to prevent recurrance of the spill. (Additional space on back) [Optional for FD or Gov't Personnel]

THE UNDERSIGNED CERTIFIES THAT THE INFORMATION PROVIDED IS TRUE AND CORRECT TO THE BEST OF HIS OR HER KNOWLEDGE AT THE TIME THE REPORT WAS COMPLETED.

Print Name: _____ **Company or Fire Department:**_____
Address : _____ **City / State / Zip** _____
Telephone _____ **Signature** _____

MARYLAND DEPARTMENT of the ENVIRONMENT
1800 WASHINGTON BOULEVARD
BALTIMORE , MARYLAND. 21230
(410) 537-3000
1-800-633-6101 (within Maryland)
http://www.mde.state.md.us

State of Maryland
Department of the Environment
Emergency Response Division
1800 Washington Blvd. Suite #105
Baltimore , Maryland. 21230-1721

24 HOUR SPILL REPORTING
(Toll Free)1-866-633-4686
EMERGENCY RESPONSE OFFICE
(410) 537-3975
RESPONSE OFFICE FACSIMILE
(410) 537-3932

PURSUANT TO THE PROVISIONS OF STATE LAW AND REGULATION; (Environmental Article 4-401 (i) ; the "Person Responsible for the discharge includes , The owner of the discharged oil , The owner , operator and / or the person in charge of the oil storage facility, vessel , barge , or vehicle involved at the time of or immediately before the discharge ; and Any person who through act or ommission , causes the discharge."

**** * * Fire Department * * * and Local or State Government Agencies : Unless you are the responsible party as defined above , Please indicate " Unknown " in any box reuesting information that is unknown or unavailable to you at the time of report.***

This Space for continuation and additional information.

THE UNDERSIGNED CERTIFIES THAT THE INFORMATION PROVIDED IS TRUE AND CORRECT TO THE BEST OF HIS OR HER KNOWLEDGE AT THE TIME THE REPORT WAS COMPLETED.

Print Name: _____ **Company or Fire Department:** _____

Address : _____ **City / State / Zip** _____

Telephone _____ **Signature** _____

EMERGENCY RESPONSE PROCEDURES FOR OIL SPILLS

ATTEMPT TO STOP THE FLOW OF OIL FROM SPEADING AND FURTHER IMPACTING THE ENVIRONMENT.

ALWAYS USE REQUIRED PPE.

- **Control:** close any valves or plug or patch any leaks.

- **Contain:** use spill containment equipment including absorbent pads and protective booms to prevent further spreading of the oil.

- **Notify:** UMD's Environmental Affairs Unit ASAP by phone at 301-405-3990 with the following information:
  - Time & location of spill
  - Type & quantity of oil spilled
  - Source & cause of spill
  - Description of containment, removal & cleanup operations

  Environmental Affairs will then report to MDE 24-Hour Emergency Response Hotline within 2 Hours of recognizing the oil spill. MDE: 1-866-633-4686

  If the spill reaches navigable waters, then the Environmental Affairs Unit will also notify the National Response Center at 800-424-8802.

ALWAYS REPORT INCIDENT TO YOUR SUPERVISOR!

Spill History Report

Date	Spill Amount	Details/ Comments (Please Attach copies of Report Forms)
06/29/17	~3 Gallons	Front-end loader overturned, fuel tank spilled ~3 gallons on the sidewalk between Terrapin Trail and Landscape Lane. No soil or waterway contaminated.
07/25/17	3-4 Gallons	Hydraulic line on excavator broke, spilling 3-4 gallons of oil onto concreete surface. No soil or waterway contaminated.
08/15/17	1 Gallon	Hydraulic line on lift blew spilling 1 gallon of oil onto concrete outside of the Bioscience Research Bldg. No soil or waterway contaminated.
09/22/17	15 Gallons	Compost compactor at Ellicott Dining Hall leaked liquid containing cooking oil and food grease into storm drain. Oil sorbnet pads and a boom were deployed at outfall to contain spill, contractor hired to jet and vacuum the grease/oil from stormwater system.
10/18/17	40 Gallons	Compost compactor at Stamp leaked liquid containing cooking oil and food grease into storm drain. Minor sheen observed on Paint Branch Creek. Oil sorbnet pads and a boom were deployed at outfall to contain spill, contractor hired to jet and vacuum the grease/oil from stormwater system.
11/29/17	5 Gallons	Diner employee spilled 5 gallons of used food grease from a 30-gal trash can onto the pavement. Small amount of grease entered stormdrain. None was observed entering surface waters. Oil sorbnet pads and a boom were deployed at stormdrain to prevent addtional grease from entering the system
12/04/18	15 Gallons	Unknown employee dumped used cooking oil/grease into an unlined dumpster in the loading dock. None was observed entering the stormwater system. The leaking dumpster was removed for repair. Sorbent was used to clean the oil on the pavement and disposed of in the dumpster.
08/05/19	1.5-2 Gallons	Unknown employee overfilled the waste oil AST at the shuttle bus facility. Approx 1.5-2 gallons of oil spilled onto the surrounding concrete and a small patch of soil. None was observed entering the stormwater system. There was already oil sorbent pads deployed prior to the notification of the spill. Loose oil absorbent was used (1 bag) and all cleaning materials in addition to 1 55-gallon drum of soil was removed and disposed of through the University's TSDF.
12/09/20	200 gallons	A nozzle on the fuel dispenser failed to shut off and resulted in an overflow of diesel fuel during the refueling of one of the bus at the Shuttle Bus facility. All fuel was contained on the containment pad at the fueling site. No fuel entered the environment. OEA deployed absorbent materials to the ground surface. A vacuum truck was used to pump water and fuel from the containment OWS in the middle of the fuel pad.
03/03/21	1-2 gallons	At approximately 2:45 am an alert went out about a small spill that occurred at the Shuttle Bus fuel island. The alert mentioned that the spill was from the dispenser nozzle and that all the fuel spilled had been contained to the containment pad and oil/water separator. Upon investigation, it was noted the pump house had fuel pooled in the bottom of the structure and that some had leaked out into the adjacent ground. Absorbent material was used on the ground surface and roughly 4-in of contaminated soil was removed.
08/06/23	9-10 Gallons	Around 1630 on 8/6/21, approximately 9-10 gallons of oil overflowed from the waste oil tank while transferring oil from a portable oil tank into the waste oil tank. At the event of the spill, two shuttle buss technicians quickly placed an absorbent dust from the spill kit on top of the oil. UMD Fire Marshall and 3 shuttle bus technicians finished cleaned up the spill using the absorbent dust and pads from he spill kit next to the tank. All of the spilled oil was contained within the impervious area around the oil tank.
11/22/21	12 Gallons	At approximately 4:28 PM the Fire Marshal's Office was dispatched to the Shuttle Bus Facility for a diesel fuel spill. The leaking diesel fuel was determined to be a contractor spill on University of Maryland property. JRP Fueling was delivering diesel fuel to the Shuttle Bus Facility when a seal between the tank and a discharge valve failed. After containing the initial spill of approximately 8 gallons, the contractor (JRP Fueling) called in another tanker to pump the initial leaking fuel tanker out. Another 4 gallons spilled after the tanker truck was pumped out and was attempted to drive off site.
12/06/21	2 Gallons	At approximately 1600, a call was placed to the University of Maryland CRC of a spill being formed under a vehicle at the Severn Building. The CRC contacted the UMD Fire Marshall's who, in turn, sent out a message to those on call. Once on site, it was discovered that a vehicle was leaking it's transmission fluid onto the pavement below. The initial UMD personnel on site obtained spill containment materials and placed oil absorbent pads under the vehicle and onto the loose standing oil on the surrounding pavement. At approximately 10:19 the following morning, Tuesday December 7th, the vehicle was towed from the parking lot to the Motor Pool maintenance facility. UMD Office of Environmental Affairs personnel arrived on scene at approximately 10:30 to further clean up the remaining loose standing oil and used oil absorbent pads.

MARYLAND DEPARTMENT of the ENVIRONMENT
1800 WASHINGTON BOULEVARD
BALTIMORE , MARYLAND. 21230
(410) 537-3000
1-800-633-6101 (within Maryland)
http://www.mde.state.md.us

State of Maryland
Department of the Environment
Emergency Response Division
1800 Washington Blvd. Suite #105
Baltimore , Maryland. 21230-1721

24 HOUR SPILL REPORTING
(Toll Free) 1-866-633-4686
EMERGENCY RESPONSE OFFICE
(410) 537-3975
RESPONSE OFFICE FACSIMILE
(410) 537-3932

PURSUANT TO THE PROVISIONS OF STATE LAW AND REGULATION; (COMAR 26.10.01.03) "A PERSON DISCHARGING OR PERMITTING THE DISCHARGE OF OIL, OR WHO EITHER ACTIVELY OR PASSIVELY PARTICIPATES IN THE DISCHARGE OR SPILLING OF OIL, EITHER FROM A LAND BASED INSTALLATION, INCLUDING VEHICLES IN TRANSIT, OR FROM ANY VESSEL SHIP OR BOAT OF ANY KIND, SHALL REPORT THE INCIDENT IMMEDIATELY TO THE ADMINISTRATION." " THE REPORT OF AN OIL SPILL OR DISCHARGE SHALL BE MADE TO THE ADMINISTRATION IMMEDIATELY, BUT NOT LATER THAN TWO HOURS AFTER DETECTION OF THE SPILL." *** *FIRE DEPARTMENT PERSONNEL , SEE REVERSE* ***

ADC Map Coord

Date of spill: Mo. 0 6 / Day 2 9 / Yr. 20 1 7 Time of spill: 0 9 : 3 7 Hours (24 hour clock)

Fire Department Report No.: _____ Police Department Report No.: _____

Location of spill - Street address: Terrapin Trail & Landscape Ln.

City / Town College Park

MD County Prince George's

Zip 20742

Product Name: Diesel Fuel

(Indicate Gasoline, Diesel, Heating Oil, Chemical Name or UN ID etc.)

Container Type: Fuel tank on front-end loader

(Indicate AST, UST, Transformer, Saddle Tank, Drum etc.)

Capacity of Vessel, Vehicle or Tank: ~40 Gallons

Amount *IN* Vessel, Vehicle or Tank: ~3 Gallons

Estimated ***Amount Spilled:*** ~3 Gallons

Transportation Incident: Front-end loader overturned

(Indicate Type of Auto, Truck, Train, Aircraft or Watercraft etc.)

Fixed Facility Incident:

(Indicate Type of Industrial , Commercial , Residential etc.)

- [x] Contained on Land
- [ ] Entered Storm Drain or Ditch
- [ ] Entered Sanitary Sewer
- [ ] Is Below Ground
- [ ] Entered surface waters: (Waterway Name)

Vehicle Tag Number and State: 269 UMID#185359

DOT or ICC MC Number:

Hull Numbers and Name:

Person(s) Responsible for Spill: (Driver if Vehicle)

Name: Vascoe Cross

Address: _____

City/State: College Park, MD Zip: 20742

Phone: _____

Drivers Lic.No. C-620839-751-564 State: MD

Be Sure to Complete Both Sections

Don't Forget to Sign Below

Company Responsible for Spill: (N/A if private citizen.)

Name: University of Maryland

Address: 1101 Main Administration Building
7901 Regents Drive

City/State: College Park, MD Zip: 20742

Phone: 301-405-1000

Fed. Employer ID No. 52-6002033

Cause of Spill:

- [x] Motor Vehicle Accident
- [ ] Personnel Error/Vandalism
- [ ] Tank/Container/Pipe Leak
- [ ] Mechanical Failure
- [ ] Transfer Accident
- [ ] _____

Identify All Groups that *Participated* in Spill Mitigation :

- [ ] Responsible Party
- [ ] MDE ERD # _____ # _____
- [ ] Federal : _____
- [x] State : University of Maryland
- [ ] Local : _____
- [ ] Contractor: _____

Materials used *by You* to contain/clean-up spill:

Sorbent Dust: ~2 Bags
Sorbent Pads: ~20 each or bales
Sorbent Booms: _____ each or bales
Sorbent Sweeps: _____ each or bales
Overpack Drums : _____ ea. Steel or Poly
Other: ~ 5 gallons of sand

Responsible Party : Describe circumstances contributing to the spill. (Additional space on back) [Optional for FD or Gov't Personnel]

A front-end loader overturned on the sidewalk adjacent to Terrapin Trail and Landscape Lane, which caused its diesel fuel tank to leak approximately 3 gallons onto the concrete.

Responsible Party : Describe Containment , Removal and Clean-up operations , Including disposal. (Additional space on back) [Optional for FD or Gov't Personnel]

The entirety of the spill was contained immediately with sorbent on the concrete sidewalk. The used sorbent was cleaned up and properly disposed of through the University's TSDF.

Responsible Party : Procedures, Methods and Precautions instituted to prevent recurrance of the spill. (Additional space on back) [Optional for FD or Gov't Personnel]

Equipment operators will be retrained on safe operating procedures.

THE UNDERSIGNED CERTIFIES THAT THE INFORMATION PROVIDED IS TRUE AND CORRECT TO THE BEST OF HIS OR HER KNOWLEDGE AT THE TIME THE REPORT WAS COMPLETED.

Print Name: Alexander Galbreath **Company or Fire Department:** University of Maryland

Address : 4716 Pontiac Street **City / State / Zip** College Park, MD 20742

Telephone 301-405-7016 **Signature** Alex Galbreath

MARYLAND DEPARTMENT of the ENVIRONMENT
1800 WASHINGTON BOULEVARD
BALTIMORE , MARYLAND. 21230
(410) 537-3000
1-800-633-6101 (within Maryland)
http://www.mde.state.md.us

State of Maryland
Department of the Environment
Emergency Response Division
1800 Washington Blvd. Suite #105
Baltimore , Maryland. 21230-1721

24 HOUR SPILL REPORTING
(Toll Free) 1-866-633-4686
EMERGENCY RESPONSE OFFICE
(410) 537-3975
RESPONSE OFFICE FACSIMILE
(410) 537-3932

PURSUANT TO THE PROVISIONS OF STATE LAW AND REGULATION; (COMAR 26.10.01.03) "A PERSON DISCHARGING OR PERMITTING THE DISCHARGE OF OIL, OR WHO EITHER ACTIVELY OR PASSIVELY PARTICIPATES IN THE DISCHARGE OR SPILLING OF OIL, EITHER FROM A LAND BASED INSTALLATION, INCLUDING VEHICLES IN TRANSIT, OR FROM ANY VESSEL SHIP OR BOAT OF ANY KIND, SHALL REPORT THE INCIDENT IMMEDIATELY TO THE ADMINISTRATION." " THE REPORT OF AN OIL SPILL OR DISCHARGE SHALL BE MADE TO THE ADMINISTRATION IMMEDIATELY, BUT NOT LATER THAN TWO HOURS AFTER DETECTION OF THE SPILL." *** *FIRE DEPARTMENT PERSONNEL , SEE REVERSE* ***

ADC Map Coord: ____

Date of spill: Mo. 07 / Day 25 / Yr. 20 17 Time of spill: 0800 (Approx) Hours (24 hour clock)

Fire Department Report No.: N/A Police Department Report No.: N/A

Location of spill - Street address: Talbot Hall
7569 Calvert Service Lane
City / Town College Park
MD County Prince Georges
Zip 20742

Product Name: Hydraulic Oil
(Indicate Gasoline, Diesel, Heating Oil, Chemical Name or UN ID etc.)
Container Type: Hydraulic Hose
(Indicate AST, UST, Transformer, Saddle Tank, Drum etc.)

Capacity of Vessel, Vehicle or Tank: N/A Gallons
Amount *IN* Vessel, Vehicle or Tank: N/A Gallons
Estimated ***Amount Spilled:*** 3 - 4 Gallons

Transportation Incident: Heavy Equipment
(Indicate Type of Auto, Truck, Train; Aircraft or Watercraft etc.)
Fixed Facility Incident: Institutional
(Indicate Type of Industrial , Commercial , Residential etc.)

☒ Contained on Land
☐ Entered Storm Drain or Ditch
☐ Entered Sanitary Sewer
☐ Is Below Ground
☐ Entered surface waters: (Waterway Name)

Vehicle Tag Number and State: N/A
DOT or ICC MC Number: N/A
Hull Numbers and Name: N/A

Person(s) Responsible for Spill: (Driver if Vehicle)
Name: Morris Landes (equipment operator)
Address: 1120 Wye Oak Building
4201 Landscape Lane
City/State: College Park, MD Zip: 20742
Phone: 301-405-2222
Drivers Lic.No. ____ State: ____

Be Sure to Complete Both Sections — *Don't Forget to Sign Below*

Company Responsible for Spill: (N/A if private citizen.)
Name: University of Maryland (Building & Landscape Maintenance)
Address: 1120 Wye Oak Building
4201 Landscape Lane
City/State: College Park, MD Zip: 20742
Phone: 301-405-2222
Fed. Employer ID No. 52-6002033

Cause of Spill:
☐ Motor Vehicle Accident
☐ Personnel Error/Vandalism
☐ Tank/Container/Pipe Leak
☒ Mechanical Failure
☐ Transfer Accident
☐ ____

Identify All Groups that *Participated* in Spill Mitigation :
☒ Responsible Party
☐ MDE ERD # ____ # ____
☐ Federal : ____
☒ State : UMD Environmental Affairs Unit
☐ Local : ____
☐ Contractor: ____

Materials used *by You* to contain/clean-up spill:
Sorbent Dust: 5 Bags
Sorbent Pads: ____ each or bales
Sorbent Booms: ____ each or bales
Sorbent Sweeps: ____ each or bales
Overpack Drums : ____ ea. Steel or Poly
Other: Soil (used to immediately stop spill); drum for disposal

Responsible Party : Describe circumstances contributing to the spill. (Additional space on back) [Optional for FD or Gov't Personnel]
UMD staff member was operating excavator (Gradall) on sidewalk / path in front of Talbot Hall. One of the hydraulic oil lines broke, causing approximately 3-4 gallons of hydraulic oil to spill onto the concrete surface. No oil entered a storm drain or waterway. No soil was contaminated as a result of the spill. The spill was contained to the concrete surface.

Responsible Party : Describe Containment , Removal and Clean-up operations , including disposal. (Additional space on back) [Optional for FD or Gov't Personnel]
The spill was contained on the concrete immediately with a small soil berm by the equipment operator. Loose sorbent material was used to collect the remaining oil. The small amount of soil and sorbent material was drummed and taken to the University's hazardous waste Treatment, Storage and Disposal Facility (TSDF) for storage, prior to off-site disposal.

Responsible Party : Procedures, Methods and Precautions instituted to prevent recurrance of the spill. (Additional space on back) [Optional for FD or Gov't Personnel]
N/A - accidental spill due to hose failure. We will request that equipment maintenance staff inspect remaining hoses on the piece of equipment.

THE UNDERSIGNED CERTIFIES THAT THE INFORMATION PROVIDED IS TRUE AND CORRECT TO THE BEST OF HIS OR HER KNOWLEDGE AT THE TIME THE REPORT WAS COMPLETED.

Print Name: Jason Baer **Company or Fire Department:** University of Maryland
Address : 4716 Pontiac Street, Seneca Bldg. #0103 **City / State / Zip** College Park, MD 20742
Telephone 301-405-3163 **Signature** ____

MARYLAND DEPARTMENT of the ENVIRONMENT
1800 WASHINGTON BOULEVARD
BALTIMORE , MARYLAND. 21230
(410) 537-3000
1-800-633-6101 (within Maryland)
http://www.mde.state.md.us

State of Maryland
Department of the Environment
Emergency Response Division
1800 Washington Blvd. Suite #105
Baltimore , Maryland. 21230-1721

24 HOUR SPILL REPORTING
(Toll Free) 1-866-633-4686
EMERGENCY RESPONSE OFFICE
(410) 537-3975
RESPONSE OFFICE FACSIMILE
(410) 537-3932

PURSUANT TO THE PROVISIONS OF STATE LAW AND REGULATION; (COMAR 26.10.01.03) "A PERSON DISCHARGING OR PERMITTING THE DISCHARGE OF OIL, OR WHO EITHER ACTIVELY OR PASSIVELY PARTICIPATES IN THE DISCHARGE OR SPILLING OF OIL, EITHER FROM A LAND BASED INSTALLATION, INCLUDING VEHICLES IN TRANSIT, OR FROM ANY VESSEL SHIP OR BOAT OF ANY KIND, SHALL REPORT THE INCIDENT IMMEDIATELY TO THE ADMINISTRATION." " THE REPORT OF AN OIL SPILL OR DISCHARGE SHALL BE MADE TO THE ADMINISTRATION IMMEDIATELY, BUT NOT LATER THAN TWO HOURS AFTER DETECTION OF THE SPILL." *** *FIRE DEPARTMENT PERSONNEL , SEE REVERSE* ***

ADC Map Coord

Date of spill: Mo. 0 8 / Day 1 5 / Yr. 20 1 7 Time of spill: 1 5 : 1 5 Hours (24 hour clock)

Fire Department Report No.: n/a Police Department Report No.: n/a

Location of spill - Street address:
Bioscience Research Building
4066 Campus Dr.
City / Town College Park
MD County MD
Zip 20742

Product Name:
Hydraulic Oil
(Indicate Gasoline, Diesel, Heating Oil, Chemical Name or UN ID etc.)
Container Type:
Hydraulic hose
(Indicate AST, UST, Transformer, Saddle Tank, Drum etc.)

Capacity of Vessel, Vehicle or Tank:
n/a Gallons
Amount *IN* Vessel, Vehicle or Tank:
n/a Gallons
Estimated ***Amount Spilled:***
1 Gallons

Transportation Incident:
n/a
(Indicate Type of Auto, Truck, Train, Aircraft or Watercraft etc.)
Fixed Facility Incident:
Institutional
(Indicate Type of Industrial , Commercial , Residential etc.)

☒ Contained on Land
☐ Entered Storm Drain or Ditch
☐ Entered Sanitary Sewer
☐ Is Below Ground
☐ Entered surface waters: (Waterway Name)

Vehicle Tag Number and State:
n/a
DOT or ICC MC Number:
n/a
Hull Numbers and Name:
n/a

Person(s) Responsible for Spill: (Driver if Vehicle)
Name: Douglas D. Downing (equipment operator)
Address: Bioscience Research Building, Room #1107
4066 Campus Dr.
City/State: College Park, MD Zip: 20742
Phone: 301-405-7432
Drivers Lic.No. State:

Be Sure to Complete Both Sections
Don't Forget to Sign Below

Company Responsible for Spill: (N/A if private citizen.)
Name: University of Maryland
Address: Bioscience Research Building, Room #1107
4066 Campus Dr.
City/State: College Park, MD Zip: 20742
Phone: 301-405-1000
Fed. Employer ID No. 52-6002033

Cause of Spill:
☐ Motor Vehicle Accident
☐ Personnel Error/Vandalism
☐ Tank/Container/Pipe Leak
☒ Mechanical Failure
☐ Transfer Accident
☐

Identify All Groups that *Participated* in Spill Mitigation : ☐ Responsible Party
☐ MDE ERD # #
☐ Federal :
☒ State : UMD Environmental Affairs Unit
☐ Local :
☐ Contractor:

Materials used *by You* to contain/clean-up spill:
Sorbent Dust: 1 Bags
Sorbent Pads: 6 each or bales
Sorbent Booms: 1 each or bales
Sorbent Sweeps: each or bales
Overpack Drums : ea. Steel or Poly
Other:

Responsible Party : Describe circumstances contributing to the spill. (Additional space on back) [Optional for FD or Gov't Personnel]

UMD staff member was operating lift when a hydraulic line blew, causing approximately 1 gallon of hydraulic oil to spill onto the concrete outside of the Bioscience Research Building.

No oil entered a storm drain or waterway. No soil was contaminated as a result of the spill. The spill was contained on the concrete surface.

Responsible Party : Describe Containment , Removal and Clean-up operations , including disposal. (Additional space on back) [Optional for FD or Gov't Personnel]

Sorbent dust, pads, and booms were used to contain and clean up the spilled oil. The waste generated was transported to the University's hazardous waste Treatment, Storage and Disposal facility for storage, prior to off-site disposal. UMD Facilities Maintenance replaced the broken hydraulic line.

Responsible Party : Procedures, Methods and Precautions instituted to prevent recurrance of the spill. (Additional space on back) [Optional for FD or Gov't Personnel]

N/A - accidental spill due to hose failure. We will request that equipment maintenance staff inspect remaining hoses on the piece of equipment.

THE UNDERSIGNED CERTIFIES THAT THE INFORMATION PROVIDED IS TRUE AND CORRECT TO THE BEST OF HIS OR HER KNOWLEDGE AT THE TIME THE REPORT WAS COMPLETED.

Print Name: Alexander Galbreath **Company or Fire Department:** University of Maryland
Address : 4716 Pontiac Street, Seneca Bldg. #0103 **City / State / Zip** College Park, MD 201742
Telephone 301-405-7016 **Signature**

MARYLAND DEPARTMENT of the ENVIRONMENT
1800 WASHINGTON BOULEVARD
BALTIMORE , MARYLAND. 21230
(410) 537-3000
1-800-633-6101 (within Maryland)
http://www.mde.state.md.us

State of Maryland
Department of the Environment
Emergency Response Division
1800 Washington Blvd. Suite #105
Baltimore , Maryland. 21230-1721

24 HOUR SPILL REPORTING
(Toll Free) 1-866-633-4686
EMERGENCY RESPONSE OFFICE
(410) 537-3975
RESPONSE OFFICE FACSIMILE
(410) 537-3932

PURSUANT TO THE PROVISIONS OF STATE LAW AND REGULATION; (COMAR 26.10.01.03) "A PERSON DISCHARGING OR PERMITTING THE DISCHARGE OF OIL, OR WHO EITHER ACTIVELY OR PASSIVELY PARTICIPATES IN THE DISCHARGE OR SPILLING OF OIL, EITHER FROM A LAND BASED INSTALLATION, INCLUDING VEHICLES IN TRANSIT, OR FROM ANY VESSEL SHIP OR BOAT OF ANY KIND, SHALL REPORT THE INCIDENT IMMEDIATELY TO THE ADMINISTRATION." " THE REPORT OF AN OIL SPILL OR DISCHARGE SHALL BE MADE TO THE ADMINISTRATION IMMEDIATELY, BUT NOT LATER THAN TWO HOURS AFTER DETECTION OF THE SPILL." *** *FIRE DEPARTMENT PERSONNEL , SEE REVERSE* ***

ADC Map Coord

Date of spill: Mo. 0 9 / Day 2 2 / Yr. 20 1 7 Time of spill: 0 7 0 0 Hours (24 hour clock)

Fire Department Report No.: n/a Police Department Report No.: n/a

Location of spill - Street address:
Ellicott Diner Loading Dock
257 Farm Drive
City / Town College Park
MD County Prince George's
Zip 20742

Product Name:
Cooking oil / food grease
(Indicate Gasoline, Diesel, Heating Oil, Chemical Name or UN ID etc.)
Container Type:
Compost compactor
(Indicate AST, UST, Transformer, Saddle Tank, Drum etc.)

Capacity of Vessel, Vehicle or Tank:
n/a Gallons
Amount ***IN*** Vessel, Vehicle or Tank:
unknown Gallons
Estimated ***Amount Spilled:***
15 Gallons

Transportation Incident:
n/a
(Indicate Type of Auto, Truck, Train, Aircraft or Watercraft etc.)
Fixed Facility Incident:
Institutional
(Indicate Type of Industrial , Commercial , Residential etc.)

☐ Contained on Land
☒ Entered Storm Drain or Ditch
☐ Entered Sanitary Sewer
☐ Is Below Ground
☐ Entered surface waters: Waterway Name

Vehicle Tag Number and State:
n/a
DOT or ICC MC Number:
n/a
Hull Numbers and Name:
n/a

Person(s) Responsible for Spill: (Driver if Vehicle)
Name: University of Maryland Dining Services
Address: 4028 Stadium Drive
City/State: College Park, MD Zip: 20742
Phone: 301-314-8054
Drivers Lic.No. State:

Be Sure to Complete Both Sections
Don't Forget to Sign Below

Company Responsible for Spill: (N/A if private citizen.)
Name: University of Maryland
Address: 4028 Stadium Drive
City/State: College Park, MD Zip: 20742
Phone: 301-405-1000
Fed. Employer ID No. 52-6002033

Cause of Spill:
☐ Motor Vehicle Accident
☐ Personnel Error/Vandalism
☐ Tank/Container/Pipe Leak
☐ Mechanical Failure
☒ Transfer Accident
☐

Identify All Groups that *Participated* in Spill Mitigation :
☒ Responsible Party
☐ **MDE ERD** # #
☐ Federal :
☐ State :
☐ Local :
☒ Contractor: AAA Storm Water Mgmt.

Materials used *by You* to contain/clean-up spill:
Sorbent Dust: 1 Bags
Sorbent Pads: 20 each or bales
Sorbent Booms: 1 each or bales
Sorbent Sweeps: each or bales
Overpack Drums : ea. Steel or Poly
Other:

Responsible Party : Describe circumstances contributing to the spill. (Additional space on back) [Optional for FD or Gov't Personnel]

Compost compactor at the Ellicott Dining hall leaked liquid containing cooking oil and food grease into the storm drain.

Responsible Party : Describe Containment , Removal and Clean-up operations , including disposal. (Additional space on back) [Optional for FD or Gov't Personnel]

Oil sorbent pads and a boom were deployed at the outfall to contain the material. The University hired a contractor on 9/25 to jet the storm drains and vacuum the grease/oil. The contractor cleaned over 1,200 linear feet of storm drain piping. Approximately 5,600 gallons of water impacted with oil/grease was taken to the Oaks Landfill Leachate Pretreatment Facility in Laytonville, MD for disposal.

Responsible Party : Procedures, Methods and Precautions instituted to prevent recurrance of the spill. (Additional space on back) [Optional for FD or Gov't Personnel]
1) compost compactors sealed to prevent spillage; 2) more frequent hauling of compost compactors to ensure compactors are not overfilled and to minimize breakdown time in the compactor of food waste; 3) add cardboard to the compost compactor prior to filling in order to absorb oil/grease; and 4) Oil sorbent booms will be installed in the trench drain to prevent oil/grease from reaching the stormwater conveyance system. EA and Dining Services will consult with the UMD utilities group in order to determine a long-term solution to prevent drainage to the trench drain from reaching the storm drains.

THE UNDERSIGNED CERTIFIES THAT THE INFORMATION PROVIDED IS TRUE AND CORRECT TO THE BEST OF HIS OR HER KNOWLEDGE AT THE TIME THE REPORT WAS COMPLETED.

Print Name: Alexander Galbreath **Company or Fire Department:** University of MD; Environmental Affairs
Address : 4716 Pontiac Street, Suite 0103 **City / State / Zip** College Park, MD 20742
Telephone 301-405-7016 **Signature**

MARYLAND DEPARTMENT of the ENVIRONMENT
1800 WASHINGTON BOULEVARD
BALTIMORE , MARYLAND. 21230
(410) 537-3000
1-800-633-6101 (within Maryland)
http://www.mde.state.md.us

State of Maryland
Department of the Environment
Emergency Response Division
1800 Washington Blvd. Suite #105
Baltimore , Maryland. 21230-1721

24 HOUR SPILL REPORTING
(Toll Free)1-866-633-4686
EMERGENCY RESPONSE OFFICE
(410) 537-3975
RESPONSE OFFICE FACSIMILE
(410) 537-3932

PURSUANT TO THE PROVISIONS OF STATE LAW AND REGULATION; (Environmental Article 4-401 (i) ; the "Person Responsible for the discharge includes , The owner of the discharged oil , The owner , operator and / or the person in charge of the oil storage facility, vessel , barge , or vehicle involved at the time of or immediately before the discharge ; and Any person who through act or ommission , causes the discharge."

Fire Department *** and Local or State Government Agencies : Unless you are the responsible party as defined above , Please indicate " Unknown " in any box reuesting information that is unknown or unavailable to you at the time of report.*

This Space for continuation and additional information.

During monthly NPDES sampling at Outfall 019, Environmental Affairs (EA) staff observed oil or grease (which was believed to be food-related) in Outfall #019. The material was very viscous and did not move far beyond the immediate area of the outfall. After making the required notification to the Maryland Department of the Environment, EA staff began investigating the watershed serviced by Outfall 019 and discovered evidence of oil/grease residue in the parking area behind the Ellicott Dining Hall (Bldg. #257).

When EA staff consulted with Greg Thompson of Dining Services regarding the issue, he noted that oily liquid was found leaking from a compost compactor unit near the loading dock on Friday, September 22nd. Greg indicated that a UMD trash truck removed the leaking compactor that day and that dining hall staff had flushed the spilled material into a trench drain located along the northern edge of parking lot #S8. Dining Services believed that the trench drain discharged to a grease trap located in the parking lot in front of the dining hall offices. However, EA staff conducted dye testing of the trench drain and determined that it did not discharge to the grease trap, but rather the trench drain discharges directly to a nearby storm drain inlet that ultimately discharges to Outfall 019.

EA staff deployed oil sorbent booms at Outfall 019 in an attempt to capture the oil/grease that was released, but oily material continued to discharge from the stormwater conveyance system. A contractor was brought in on 9/25 to jet and vacuum the stormwater lines between the Ellicott Dining Hall and Outfall 019 in order to remove residual oil/grease that could be discharged during the next rain event.

Additional measures taken to prevent further illicit discharges from the Ellicott Dining Hall include: 1) Dining Services has hired a contractor to seal the compactors to reduce spillage; 2) Facilities Management will haul compost compactors more frequently to ensure compactors are not overfilled and to minimize the breakdown of food waste inside the compactor during warm weather; 3) Dining Services will add cardboard or other bagasse to the compost compactor prior to filling them with food waste in order to absorb any oil/grease contained in the food waste; and 4) Oil sorbent booms will be installed in the trench drain to prevent oil/grease from reaching the stormwater conveyance system. EA and Dining Services will consult with the UMD utilities group in order to determine a long-term solution to prevent drainage to the trench drain from reaching the storm drains.

THE UNDERSIGNED CERTIFIES THAT THE INFORMATION PROVIDED IS TRUE AND CORRECT TO THE BEST OF HIS OR HER KNOWLEDGE AT THE TIME THE REPORT WAS COMPLETED.

Print Name: Alexander Galbreath **Company or Fire Department:** University of MD; Environmental Affairs
Address : 4716 Pontiac Street, Suite 0103 **City / State / Zip** College Park, MD 20742
Telephone 301-405-7016 **Signature**

MARYLAND DEPARTMENT of the ENVIRONMENT
1800 WASHINGTON BOULEVARD
BALTIMORE , MARYLAND. 21230
(410) 537-3000
1-800-633-6101 (within Maryland)
http://www.mde.state.md.us

State of Maryland
Department of the Environment
Emergency Response Division
1800 Washington Blvd. Suite #105
Baltimore , Maryland. 21230-1721

24 HOUR SPILL REPORTING
(Toll Free) 1-866-633-4686
EMERGENCY RESPONSE OFFICE
(410) 537-3975
RESPONSE OFFICE FACSIMILE
(410) 537-3932

PURSUANT TO THE PROVISIONS OF STATE LAW AND REGULATION; (COMAR 26.10.01.03) "A PERSON DISCHARGING OR PERMITTING THE DISCHARGE OF OIL, OR WHO EITHER ACTIVELY OR PASSIVELY PARTICIPATES IN THE DISCHARGE OR SPILLING OF OIL, EITHER FROM A LAND BASED INSTALLATION, INCLUDING VEHICLES IN TRANSIT, OR FROM ANY VESSEL SHIP OR BOAT OF ANY KIND, SHALL REPORT THE INCIDENT IMMEDIATELY TO THE ADMINISTRATION." " THE REPORT OF AN OIL SPILL OR DISCHARGE SHALL BE MADE TO THE ADMINISTRATION IMMEDIATELY, BUT NOT LATER THAN TWO HOURS AFTER DETECTION OF THE SPILL." *** *FIRE DEPARTMENT PERSONNEL , SEE REVERSE* ***

ADC Map Coord

Date of spill: Mo. 1 0 / Day 1 8 / Yr. 20 1 7 Time of spill: 1 1 0 0 Hours (24 hour clock)

Fire Department Report No.: n/a Police Department Report No.: n/a

Location of spill - Street address:
Stamp Student Union
Fieldhouse Drive
City / Town College Park
MD County Prince George's
Zip 20742

Product Name:
Cooking oil / food grease
(Indicate Gasoline, Diesel, Heating Oil, Chemical Name or UN ID etc.)
Container Type:
Compost compactor
(Indicate AST, UST, Transformer, Saddle Tank, Drum etc.)

Capacity of Vessel, Vehicle or Tank:
n/a Gallons
Amount ***IN*** Vessel, Vehicle or Tank:
unknown Gallons
Estimated ***Amount Spilled:***
40 Gallons

Transportation Incident:
n/a
(Indicate Type of Auto, Truck, Train, Aircraft or Watercraft etc.)
Fixed Facility Incident:
Institutional
(Indicate Type of Industrial , Commercial , Residential etc.)

☐ Contained on Land
☐ Entered Storm Drain or Ditch
☐ Entered Sanitary Sewer
☐ Is Below Ground
☒ Entered surface waters:
Paint Branch Creek
(Waterway Name)

Vehicle Tag Number and State:
DOT or ICC MC Number:
Hull Numbers and Name:

Person(s) Responsible for Spill: (Driver if Vehicle)
Name: University of Maryland Stamp Student Union
Address: 3972 Campus Drive
City/State: College Park Zip: 20742
Phone: 301-314-5931
Drivers Lic.No. State:

Be Sure to Complete Both Sections
Don't Forget to Sign Below

Company Responsible for Spill: (N/A if private citizen.)
Name: University of Maryland
Address: 3972 Campus Drive
City/State: College Park Zip: 20742
Phone: 301-405-1000
Fed. Employer ID No. 52-6002033

Cause of Spill:
☐ Motor Vehicle Accident
☐ Personnel Error/Vandalism
☐ Tank/Container/Pipe Leak
☐ Mechanical Failure
☒ Transfer Accident
☐

Identify All Groups that *Participated* in Spill Mitigation :
☒ Responsible Party
☐ MDE ERD # #
☐ Federal :
☐ State :
☐ Local :
☒ Contractor: AAA Storm Water Mgmt.

Materials used *by You* to contain/clean-up spill:
Sorbent Dust: 1 Bags
Sorbent Pads: 25 each or bales
Sorbent Booms: 3 each or bales
Sorbent Sweeps: each or bales
Overpack Drums : ea. Steel or Poly
Other:

Responsible Party : Describe circumstances contributing to the spill. (Additional space on back) [Optional for FD or Gov't Personnel]

Compost compactor at the Stamp Student Union leaked liquid containing cooking oil and food grease into the storm drain. There was a minor oil sheen on the receiving water body, Paint Branch Creek.

Responsible Party : Describe Containment , Removal and Clean-up operations , including disposal. (Additional space on back) [Optional for FD or Gov't Personnel]

Oil sorbent pads and a boom were deployed at the outfall to contain the material. The University hired a contractor on 10/19 to jet the storm drains and vacuum the grease/oil. The contractor cleaned approximately 1,000 linear feet of storm drain piping. Approximately 1,600 gallons of water impacted with oil/grease was taken to the Oaks Landfill Leachate Pretreatment Facility in Laytonville, MD for disposal.

Responsible Party : Procedures, Methods and Precautions instituted to prevent recurrance of the spill. (Additional space on back) [Optional for FD or Gov't Personnel]
1) compost compactors sealed to prevent spillage; 2) more frequent hauling of compost compactors to ensure compactors are not overfilled and to minimize breakdown time in the compactor of food waste; 3) add cardboard to the compost compactor prior to filling in order to absorb oil/grease; EA and the Stamp Student Union will consult with the UMD utilities group in order to determine a long-term solution to prevent drainage to the trench drain from reaching the storm drains.

THE UNDERSIGNED CERTIFIES THAT THE INFORMATION PROVIDED IS TRUE AND CORRECT TO THE BEST OF HIS OR HER KNOWLEDGE AT THE TIME THE REPORT WAS COMPLETED.

Print Name: Alexander Galbreath **Company or Fire Department:** University of Maryland
Address : 4716 Pontiac Street, Suite #0103 **City / State / Zip** College Park, MD 20742
Telephone 301-405-7016 **Signature**

MARYLAND DEPARTMENT of the ENVIRONMENT
1800 WASHINGTON BOULEVARD
BALTIMORE , MARYLAND. 21230
(410) 537-3000
1-800-633-6101 (within Maryland)
http://www.mde.state.md.us

State of Maryland
Department of the Environment
Emergency Response Division
1800 Washington Blvd. Suite #105
Baltimore , Maryland. 21230-1721

24 HOUR SPILL REPORTING
(Toll Free) 1-866-633-4686
EMERGENCY RESPONSE OFFICE
(410) 537-3975
RESPONSE OFFICE FACSIMILE
(410) 537-3932

PURSUANT TO THE PROVISIONS OF STATE LAW AND REGULATION; (COMAR 26.10.01.03) "A PERSON DISCHARGING OR PERMITTING THE DISCHARGE OF OIL, OR WHO EITHER ACTIVELY OR PASSIVELY PARTICIPATES IN THE DISCHARGE OR SPILLING OF OIL, EITHER FROM A LAND BASED INSTALLATION, INCLUDING VEHICLES IN TRANSIT, OR FROM ANY VESSEL SHIP OR BOAT OF ANY KIND, SHALL REPORT THE INCIDENT IMMEDIATELY TO THE ADMINISTRATION." " THE REPORT OF AN OIL SPILL OR DISCHARGE SHALL BE MADE TO THE ADMINISTRATION IMMEDIATELY, BUT NOT LATER THAN TWO HOURS AFTER DETECTION OF THE SPILL." *** *FIRE DEPARTMENT PERSONNEL , SEE REVERSE* ***

ADC Map Coord _____

Date of spill: Mo. 1 1 / Day 2 9 / Yr. 20 1 7 Time of spill: 1 4 : 1 5 Hours (24 hour clock)

Fire Department Report No.: n/a Police Department Report No.: n/a

Location of spill - Street address:
Denton Dining Hall
3951 Denton Service Ln.
City / Town College Park
MD County Prince George's
Zip 20742

Product Name:
Cooking oil / food grease
(Indicate Gasoline, Diesel, Heating Oil, Chemical Name or UN ID etc.)
Container Type:
Trash can
(Indicate AST, UST, Transformer, Saddle Tank, Drum etc.)

Capacity of Vessel, Vehicle or Tank:
30 Gallons
Amount ***IN*** Vessel, Vehicle or Tank:
5 Gallons
Estimated ***Amount Spilled:***
5 Gallons

Transportation Incident:
n/a
(Indicate Type of Auto, Truck, Train, Aircraft or Watercraft etc.)
Fixed Facility Incident:
Institutional
(Indicate Type of Industrial , Commercial , Residential etc.)

☐ Contained on Land
☒ Entered Storm Drain or Ditch
☐ Entered Sanitary Sewer
☐ Is Below Ground
☐ Entered surface waters: (Waterway Name)

Vehicle Tag Number and State:
n/a
DOT or ICC MC Number:
Hull Numbers and Name:

Person(s) Responsible for Spill: (Driver if Vehicle)
Name: University of Maryland Dining Services
Address: Denton Dining Hall
3951 Denton Service Ln.
City/State: College Park, MD Zip: 20742
Phone: 301-405-0562
Drivers Lic.No. State:

Be Sure to Complete Both Sections
Don't Forget to Sign Below

Company Responsible for Spill: (N/A if private citizen.)
Name: University of Maryland
Address: 4716 Pontiac St. Suite 0103
City/State: College Park, MD Zip: 20742
Phone: 301-405-3990
Fed. Employer ID No. 52-6002033

Cause of Spill:
☐ Motor Vehicle Accident
☒ Personnel Error/Vandalism
☐ Tank/Container/Pipe Leak
☐ Mechanical Failure
☐ Transfer Accident
☐ _____

Identify All Groups that *Participated* in Spill Mitigation : ☐ Responsible Party
☐ **MDE ERD** # _____ # _____
☐ Federal : _____
☐ State : _____
☐ Local : _____
☐ Contractor: _____

Materials used *by You* to contain/clean-up spill:
Sorbent Dust: 20 Bags
Sorbent Pads: 1 roll each or bales
Sorbent Booms: 1 each or bales
Sorbent Sweeps: _____ each or bales
Overpack Drums : _____ ea. Steel or Poly
Other: _____

Responsible Party : Describe circumstances contributing to the spill. (Additional space on back) [Optional for FD or Gov't Personnel]

Diner employee was transporting approximately 5 gallons of used food grease in a 30-gal trash can from the kitchen to the oil collection area on the loading dock when the trash can overturned spilling all of the contents onto the pavement. Some grease entered the storm drain, but none entered the surface waters.

Responsible Party . Describe Containment , Removal and Clean-up operations , including disposal. (Additional space on back) [Optional for FD or Gov't Personnel]

An oil sorbent boom was deployed at the storm drain to prevent any further grease from entering the storm drain. Oil sorbent booms and bags of oil sorbent dust were used to clean up the grease from the pavement. Used sorbent materials were disposed of in the dumpster at the environmental services facility on campus.

Responsible Party : Procedures, Methods and Precautions instituted to prevent recurrance of the spill. (Additional space on back) [Optional for FD or Gov't Personnel]

Training will be conducted for dining hall employees on proper oil handling methods and spill response procedures.

THE UNDERSIGNED CERTIFIES THAT THE INFORMATION PROVIDED IS TRUE AND CORRECT TO THE BEST OF HIS OR HER KNOWLEDGE AT THE TIME THE REPORT WAS COMPLETED.

Print Name: Alexander Galbreath **Company or Fire Department:** University of Maryland
Address : 4716 Pontiac Street, Suite 0103 **City / State / Zip** College Park, MD 20742
Telephone 301-405-7016 **Signature** Alex Galbreath

MARYLAND DEPARTMENT of the ENVIRONMENT
1800 WASHINGTON BOULEVARD
BALTIMORE , MARYLAND. 21230
(410) 537-3000
1-800-633-6101 (within Maryland)
http://www.mde.state.md.us

State of Maryland
Department of the Environment
Emergency Response Division
1800 Washington Blvd. Suite #105
Baltimore , Maryland. 21230-1721

24 HOUR SPILL REPORTING
(Toll Free) 1-866-633-4686
EMERGENCY RESPONSE OFFICE
(410) 537-3975
RESPONSE OFFICE FACSIMILE
(410) 537-3932

PURSUANT TO THE PROVISIONS OF STATE LAW AND REGULATION; (COMAR 26.10.01.03) "A PERSON DISCHARGING OR PERMITTING THE DISCHARGE OF OIL, OR WHO EITHER ACTIVELY OR PASSIVELY PARTICIPATES IN THE DISCHARGE OR SPILLING OF OIL, EITHER FROM A LAND BASED INSTALLATION, INCLUDING VEHICLES IN TRANSIT, OR FROM ANY VESSEL SHIP OR BOAT OF ANY KIND, SHALL REPORT THE INCIDENT IMMEDIATELY TO THE ADMINISTRATION." " THE REPORT OF AN OIL SPILL OR DISCHARGE SHALL BE MADE TO THE ADMINISTRATION IMMEDIATELY, BUT NOT LATER THAN TWO HOURS AFTER DETECTION OF THE SPILL." *** *FIRE DEPARTMENT PERSONNEL , SEE REVERSE* ***

ADC Map Coord _____

Date of spill: Mo. 12 / Day 04 / Yr. 2018 Time of spill: 0917 Hours (24 hour clock)

Fire Department Report No.: N/A Police Department Report No.: N/A

Location of spill - Street address: Denton Dining Hall
3951 Denton Service Lane
City / Town College Park, MD
MD County Prince Georges
Zip 20742

Product Name: Cooking Oil / Food Grease
(Indicate Gasoline, Diesel, Heating Oil, Chemical Name or UN ID etc.)
Container Type: Dumpster
(Indicate AST, UST, Transformer, Saddle Tank, Drum etc.)

Capacity of Vessel, Vehicle or Tank: 1,210 Gallons
Amount *IN* Vessel, Vehicle or Tank: 20 Gallons
Estimated ***Amount Spilled:*** 15 Gallons

Transportation Incident: N/A
(Indicate Type of Auto, Truck, Train, Aircraft or Watercraft etc.)
Fixed Facility Incident: Institutional Facility
(Indicate Type of Industrial , Commercial , Residential etc.)

- [x] Contained on Land
- [ ] Entered Storm Drain or Ditch
- [ ] Entered Sanitary Sewer
- [ ] Is Below Ground
- [ ] Entered surface waters: (Waterway Name) _____

Vehicle Tag Number and State: N/A
DOT or ICC MC Number: N/A
Hull Numbers and Name: N/A

Person(s) Responsible for Spill: (Driver if Vehicle)
Name: University of Maryland Dining Services
Address: 3951 Denton Service Lane
City/State: College Park, MD Zip: 20742
Phone: 301-405-0562
Drivers Lic.No. N/A State: _____

Be Sure to Complete Both Sections ⟷ *Don't Forget to Sign Below*

Company Responsible for Spill: (N/A if private citizen.)
Name: University of Maryland - Office of Environmental Affairs
Address: 4716 Pontiac Street, Suite #0103
City/State: College Park, MD Zip: 20742
Phone: 301-405-3990
Fed. Employer ID No. 52-6002033

Cause of Spill:
- [ ] Motor Vehicle Accident
- [x] Personnel Error/Vandalism
- [ ] Tank/Container/Pipe Leak
- [ ] Mechanical Failure
- [ ] Transfer Accident
- [ ] _____

Identify All Groups that *Participated* in Spill Mitigation :
- [x] Responsible Party
- [ ] **MDE ERD #** _____ # _____
- [ ] Federal : _____
- [ ] State : _____
- [ ] Local : _____
- [ ] Contractor: _____

Materials used *by You* to contain/clean-up spill:
Sorbent Dust: 8 Bags
Sorbent Pads: 12 each or bales
Sorbent Booms: 2 each or bales
Sorbent Sweeps: _____ each or bales
Overpack Drums : _____ ea. Steel or Poly
Other: _____

Responsible Party : Describe circumstances contributing to the spill. (Additional space on back) [Optional for FD or Gov't Personnel]

An unknown employee dumped used cooking oil / grease into a dumpster located adjacent to the Denton Dining Hall loading dock. Dining Services staff notified the Office of Environmental Affairs (OEA) about the leaking oil at 9:17 am. When OEA staff arrived, sawdust had been deployed to contain the spill. OEA staff deployed additional spill response materials inside the dumpster and on the ground. The dumpster was removed from the facility for repair / replacement. All spill cleanup materials were collected and disposed of.

Responsible Party : Describe Containment , Removal and Clean-up operations , including disposal. (Additional space on back) [Optional for FD or Gov't Personnel]

Oil sorbent booms and pads were deployed to contain the spilled cooking oil / food grease. The spill did not reach the stormdrain system or waters of the state. All oil was contained to the paved parking area near the loading dock. All spill cleanup materials were disposed of in a dumpster. The leaking dumpster was removed for repair.

Responsible Party : Procedures, Methods and Precautions instituted to prevent recurrance of the spill. (Additional space on back) [Optional for FD or Gov't Personnel]

Dining Services staff are attempting to identify the employee who dumped the cooking oil / food grease into the dumpster. Staff will be retrained regarding proper oil disposal.

THE UNDERSIGNED CERTIFIES THAT THE INFORMATION PROVIDED IS TRUE AND CORRECT TO THE BEST OF HIS OR HER KNOWLEDGE AT THE TIME THE REPORT WAS COMPLETED.

Print Name: Jason Baer, Assistant Director, Office of Environmental Affairs **Company or Fire Department:** University of Maryland
Address : 4716 Pontiac Street, Suite, 0103 **City / State / Zip** College Park, MD 20742
Telephone 301-405-3163 **Signature** Jason Baer Digitally signed by Jason Baer Date: 2018.12.04 15:52:43 -05'00'

MARYLAND DEPARTMENT of the ENVIRONMENT
1800 WASHINGTON BOULEVARD
BALTIMORE , MARYLAND. 21230
(410) 537-3000
1-800-633-6101 (within Maryland)
http://www.mde.state.md.us

State of Maryland
Department of the Environment
Emergency Response Division
1800 Washington Blvd. Suite #105
Baltimore , Maryland. 21230-1721

24 HOUR SPILL REPORTING
(Toll Free) 1-866-633-4686
EMERGENCY RESPONSE OFFICE
(410) 537-3975
RESPONSE OFFICE FACSIMILE
(410) 537-3932

PURSUANT TO THE PROVISIONS OF STATE LAW AND REGULATION; (COMAR 26.10.01.03) "A PERSON DISCHARGING OR PERMITTING THE DISCHARGE OF OIL, OR WHO EITHER ACTIVELY OR PASSIVELY PARTICIPATES IN THE DISCHARGE OR SPILLING OF OIL, EITHER FROM A LAND BASED INSTALLATION, INCLUDING VEHICLES IN TRANSIT, OR FROM ANY VESSEL SHIP OR BOAT OF ANY KIND, SHALL REPORT THE INCIDENT IMMEDIATELY TO THE ADMINISTRATION." " THE REPORT OF AN OIL SPILL OR DISCHARGE SHALL BE MADE TO THE ADMINISTRATION IMMEDIATELY, BUT NOT LATER THAN TWO HOURS AFTER DETECTION OF THE SPILL." *** * * *FIRE DEPARTMENT PERSONNEL , SEE REVERSE* * * ***

ADC Map Coord: _____

Date of spill: Mo. 08 / Day 05 / Yr. 2019 Time of spill: 1300 Hours (24 hour clock)

Fire Department Report No.: _____ Police Department Report No.: _____

Location of spill - Street address: 8537 Paint Branch Dr

City / Town: College Park

MD County: Prince Georges

Zip: 20742

Product Name: Waste Oil

(Indicate Gasoline, Diesel, Heating Oil, Chemical Name or UN ID etc.)

Container Type: AST

(Indicate AST, UST, Transformer, Saddle Tank, Drum etc.)

Capacity of Vessel, Vehicle or Tank: 550 Gallons

Amount ***IN*** Vessel, Vehicle or Tank: _____ Gallons

Estimated ***Amount Spilled:*** 1.5-2 Gallons

Transportation Incident: _____

(Indicate Type of Auto, Truck, Train, Aircraft or Watercraft etc.)

Fixed Facility Incident: Institutional

(Indicate Type of Industrial , Commercial , Residential etc.)

- [x] Contained on Land
- [ ] Entered Storm Drain or Ditch
- [ ] Entered Sanitary Sewer
- [ ] Is Below Ground
- [ ] Entered surface waters: _____ (Waterway Name)

Vehicle Tag Number and State: N/A _____

DOT or ICC MC Number: N/A

Hull Numbers and Name: N/A _____

Person(s) Responsible for Spill: (Driver if Vehicle)

Name: Shuttle Bus Facility

Address: 8537 Paint Branch Dr

City/State: College Park, MD Zip: 20742

Phone: (301) 314-7269

Drivers Lic.No._____ State:_____

Be Sure to Complete Both Sections

Don't Forget to Sign Below

Company Responsible for Spill: (N/A if private citizen.)

Name: University of Maryland

Address: 1101 Main Administration Building
7901 Regents Drive

City/State: College Park, MD Zip: 20742

Phone: 301-405-1000

Fed. Employer ID No. 52-06002033

Cause of Spill:

- [ ] Motor Vehicle Accident
- [x] Personnel Error/Vandalism
- [ ] Tank/Container/Pipe Leak
- [ ] Mechanical Failure
- [ ] Transfer Accident
- [ ] _____

Identify All Groups that *Participated* in Spill Mitigation :

- [ ] Responsible Party
- [ ] **MDE ERD** # _____ # _____
- [ ] Federal : _____
- [x] State : University of Maryland
- [ ] Local : _____
- [ ] Contractor: _____

Materials used *by You* to contain/clean-up spill:

Sorbent Dust: 1 Bags

Sorbent Pads: _____ each or bales

Sorbent Booms: _____ each or bales

Sorbent Sweeps: _____ each or bales

Overpack Drums : 1 ea. Steel or Poly

Other:_____

Responsible Party : Describe circumstances contributing to the spill. (Additional space on back) [Optional for FD or Gov't Personnel]

An unknown individual overfilled the waste oil tank located outside of the maintenance shop of the Shuttle Bus Facility. The spill was discovered on Monday, August 5, 2019 at approximately 13:00. Most of the spill was covered by sorbent pads prior to the discovery by the reporting individual. A small amount of the spill had entered the grass/ground adjacent to the waste oil tank.

Responsible Party : Describe Containment , Removal and Clean-up operations , including disposal. (Additional space on back) [Optional for FD or Gov't Personnel]

The entirety of the spill was cleaned up by collecting the saturated sorbent pads, placing 1 bag of sheen clean loose absorbent to absorb the remaining oil, and a 55-gallon drum of the contaminated soil was removed. All cleaning materials were cleaned up and properly disposed of through the University's TSDF. The soil adjacent to the waste oil tank is being replaced by concrete later this month.

Responsible Party : Procedures, Methods and Precautions instituted to prevent recurrance of the spill. (Additional space on back) [Optional for FD or Gov't Personnel]

Shuttle Bus personnel will be retrained in proper disposal procedures. In addition to the training, a longer nipple will be installed between the tank and the locking cap to prevent overfills in the future as well as a the installation of a combination tank gauge and audible / visual alarm.

THE UNDERSIGNED CERTIFIES THAT THE INFORMATION PROVIDED IS TRUE AND CORRECT TO THE BEST OF HIS OR HER KNOWLEDGE AT THE TIME THE REPORT WAS COMPLETED.

Print Name: Kaitlyn Peterson, Office of Environmental Affairs **Company or Fire Department:** University of Maryland

Address : 4716 Pontiac Street, 0103 **City / State / Zip** College Park, MD 20742

Telephone 301-405-8604 **Signature** Jason Baer

MARYLAND DEPARTMENT of the ENVIRONMENT
1800 WASHINGTON BOULEVARD
BALTIMORE , MARYLAND. 21230
(410) 537-3000
1-800-633-6101 (within Maryland)
http://www.mde.state.md.us

State of Maryland
Department of the Environment
Emergency Response Division
1800 Washington Blvd. Suite #105
Baltimore , Maryland. 21230-1721

24 HOUR SPILL REPORTING
(Toll Free) 1-866-633-4686
EMERGENCY RESPONSE OFFICE
(410) 537-3975
RESPONSE OFFICE FACSIMILE
(410) 537-3932

PURSUANT TO THE PROVISIONS OF STATE LAW AND REGULATION; (COMAR 26.10.01.03) "A PERSON DISCHARGING OR PERMITTING THE DISCHARGE OF OIL, OR WHO EITHER ACTIVELY OR PASSIVELY PARTICIPATES IN THE DISCHARGE OR SPILLING OF OIL, EITHER FROM A LAND BASED INSTALLATION, INCLUDING VEHICLES IN TRANSIT, OR FROM ANY VESSEL SHIP OR BOAT OF ANY KIND, SHALL REPORT THE INCIDENT IMMEDIATELY TO THE ADMINISTRATION." " THE REPORT OF AN OIL SPILL OR DISCHARGE SHALL BE MADE TO THE ADMINISTRATION IMMEDIATELY, BUT NOT LATER THAN TWO HOURS AFTER DETECTION OF THE SPILL." *** ***FIRE DEPARTMENT PERSONNEL , SEE REVERSE*** ***

ADC Map Coord: _____

Date of spill: Mo. 12 / Day 09 / Yr. 20 20 Time of spill: 1545 Hours (24 hour clock)

Fire Department Report No.: _____ Police Department Report No.: _____

Location of spill - Street address: 8537 Paint Branch Drive, Bldg. 424

City / Town: College Park

MD County: Prince George's

Zip: 20742

Product Name: Ultra Low Sulfur Diesel Fuel
(Indicate Gasoline, Diesel, Heating Oil, Chemical Name or UN ID etc.)

Container Type: AST / Fuel Dispenser
(Indicate AST, UST, Transformer, Saddle Tank, Drum etc.)

Capacity of Vessel, Vehicle or Tank: 20,000 Gallons

Amount ***IN*** Vessel, Vehicle or Tank: _____ Gallons

Estimated ***Amount Spilled:*** 200 Gallons

Transportation Incident: _____
(Indicate Type of Auto, Truck, Train, Aircraft or Watercraft etc.)

Fixed Facility Incident: Institutional (university) - shuttle bus maintenance facility
(Indicate Type of Industrial , Commercial , Residential etc.)

- ☒ Contained on Land
- ☐ Entered Storm Drain or Ditch
- ☐ Entered Sanitary Sewer
- ☐ Is Below Ground
- ☐ Entered surface waters: _____ (Waterway Name)

Vehicle Tag Number and State: N/A _____

DOT or ICC MC Number: N/A

Hull Numbers and Name: N/A _____

Person(s) Responsible for Spill: (Driver if Vehicle)

Name: Edwin Brown (facility maintenance manager - evening shift)

Address: 8537 Paint Branch Drive, Bldg. 424

City/State: College Park, MD Zip: 20742

Phone: (301) 314-8631

Drivers Lic.No. N/A State: _____

Be Sure to Complete Both Sections

Don't Forget to Sign Below

Company Responsible for Spill: (N/A if private citizen.)

Name: University of Maryland

Address: 1101 Main Administration Building
7901 Regents Drive

City/State: College Park, MD Zip: 20742

Phone: 301-405-3960

Fed. Employer ID No. 52-06002033

Cause of Spill:

- ☐ Motor Vehicle Accident
- ☐ Personnel Error/Vandalism
- ☐ Tank/Container/Pipe Leak
- ☒ Mechanical Failure
- ☒ Transfer Accident
- ☐ _____

Identify All Groups that *Participated* in Spill Mitigation :

- ☒ Responsible Party
- ☐ **MDE ERD** # _____ # _____
- ☐ Federal : _____
- ☐ State : _____
- ☐ Local : _____
- ☒ Contractor: Triumvirate Environmental

Materials used *by You* to contain/clean-up spill:

Sorbent Dust: 5 Bags
Sorbent Pads: 10 each or bales
Sorbent Booms: 3 each or bales
Sorbent Sweeps: _____ each or bales
Overpack Drums : 1 ea. Steel or Poly
Other: _____

Responsible Party : Describe circumstances contributing to the spill. (Additional space on back) [Optional for FD or Gov't Personnel]

A nozzle on the fuel dispenser failed to shut off and resulted in an overflow of diesel fuel during the refueling of one of the buses at the facility.

All fuel was contained on the containment pad at the fueling facility.

MDE was notified of the spill by phone at approximately 5:30 pm, once the situation had been assessed and cleanup operations had been initiated.

Responsible Party : Describe Containment , Removal and Clean-up operations , including disposal. (Additional space on back) [Optional for FD or Gov't Personnel]

The Office of Environmental Affairs responded for the University. Absorbent materials were used to remove the fuel on the ground surface. All liquid was contained to the containment pad at the fueling facility. A vacuum truck was used to pump water and fuel from the containment sump in the middle of the fueling facility. No fuel entered the environment. All fuel spilled was contained and cleaned up.

Responsible Party : Procedures, Methods and Precautions instituted to prevent recurrance of the spill. (Additional space on back) [Optional for FD or Gov't Personnel]

We will contact a contractor to service the fuel dispenser and ensure that it is operating properly.

THE UNDERSIGNED CERTIFIES THAT THE INFORMATION PROVIDED IS TRUE AND CORRECT TO THE BEST OF HIS OR HER KNOWLEDGE AT THE TIME THE REPORT WAS COMPLETED.

Print Name: Jason Baer **Company or Fire Department:** University of Maryland

Address : 4716 Pontiac Street, #0103 (Seneca Building) **City / State / Zip** College Park, MD 20742

Telephone 202-441-6391 (cell) **Signature** Jason Baer

MARYLAND DEPARTMENT of the ENVIRONMENT
1800 WASHINGTON BOULEVARD
BALTIMORE , MARYLAND. 21230
(410) 537-3000
1-800-633-6101 (within Maryland)
http://www.mde.state.md.us

State of Maryland
Department of the Environment
Emergency Response Division
1800 Washington Blvd. Suite #105
Baltimore , Maryland. 21230-1721

24 HOUR SPILL REPORTING
(Toll Free) 1-866-633-4686
EMERGENCY RESPONSE OFFICE
(410) 537-3975
RESPONSE OFFICE FACSIMILE
(410) 537-3932

PURSUANT TO THE PROVISIONS OF STATE LAW AND REGULATION; (COMAR 26.10.01.03) "A PERSON DISCHARGING OR PERMITTING THE DISCHARGE OF OIL, OR WHO EITHER ACTIVELY OR PASSIVELY PARTICIPATES IN THE DISCHARGE OR SPILLING OF OIL, EITHER FROM A LAND BASED INSTALLATION, INCLUDING VEHICLES IN TRANSIT, OR FROM ANY VESSEL SHIP OR BOAT OF ANY KIND, SHALL REPORT THE INCIDENT IMMEDIATELY TO THE ADMINISTRATION." " THE REPORT OF AN OIL SPILL OR DISCHARGE SHALL BE MADE TO THE ADMINISTRATION IMMEDIATELY, BUT NOT LATER THAN TWO HOURS AFTER DETECTION OF THE SPILL." * * * *FIRE DEPARTMENT PERSONNEL , SEE REVERSE* * * *

ADC Map Coord _____

Date of spill: Mo. 0 8 / Day 0 6 / Yr. 20 2 1 Time of spill: 1 6 3 0 Hours (24 hour clock)

Fire Department Report No.: _____ Police Department Report No.: _____

Location of spill - Street address: 8537 Paint Branch Dr
Shuttle Bus Facility
City / Town College Park
MD County Prince George's
Zip 20742

Product Name: Used Oil
(Indicate Gasoline, Diesel, Heating Oil, Chemical Name or UN ID etc.)
Container Type: AST
(Indicate AST, UST, Transformer, Saddle Tank, Drum etc.)

Capacity of Vessel, Vehicle or Tank: 550 Gallons
Amount ***IN*** Vessel, Vehicle or Tank: 500 Gallons
Estimated ***Amount Spilled:*** 10 Gallons

Transportation Incident: _____
(Indicate Type of Auto, Truck, Train, Aircraft or Watercraft etc.)
Fixed Facility Incident: Transportation at an Institution
(Indicate Type of Industrial , Commercial , Residential etc.)

- [x] Contained on Land
- [ ] Entered Storm Drain or Ditch
- [ ] Entered Sanitary Sewer
- [ ] Is Below Ground
- [ ] Entered surface waters: Waterway Name _____

Vehicle Tag Number and State: _____ _____
DOT or ICC MC Number: _____
Hull Numbers and Name: _____ _____

Person(s) Responsible for Spill: (Driver if Vehicle)
Name: Shuttle Bus Technician
Address: 8537 Paint Branch Dr
City/State: College Park, Maryland Zip: 20742
Phone: (301) 314-7267
Drivers Lic.No._____ State:_____

Be Sure to Complete Both Sections
Don't Forget to Sign Below

Company Responsible for Spill: (N/A if private citizen.)
Name: University of Maryland-Shuttle Bus Facility
Address: 8537 Paint Branch Dr
City/State: College Park, Maryland Zip: 20742
Phone: (301) 314-7267
Fed. Employer ID No. 52-6002033

Cause of Spill:
- [ ] Motor Vehicle Accident
- [ ] Personnel Error/Vandalism
- [ ] Tank/Container/Pipe Leak
- [ ] Mechanical Failure
- [x] Transfer Accident
- [ ] _____

Identify All Groups that *Participated* in Spill Mitigation :
- [x] Responsible Party
- [ ] **MDE ERD** # _____ # _____
- [ ] Federal : _____
- [x] State : University Of Maryland
- [ ] Local : _____
- [ ] Contractor: _____

Materials used *by You* to contain/clean-up spill:
Sorbent Dust: 3 Bags
Sorbent Pads: 10 each or bales
Sorbent Booms: _____ each or bales
Sorbent Sweeps: _____ each or bales
Overpack Drums : _____ ea. Steel or Poly
Other:_____

Responsible Party : Describe circumstances contributing to the spill. (Additional space on back) [Optional for FD or Gov't Personnel]

Around 1630 on 8/6/21, approximately 10 gallons of oil overflowed from the used oil tank while transferring oil from a portable oil tank into the used oil tank.

Responsible Party : Describe Containment , Removal and Clean-up operations , including disposal. (Additional space on back) [Optional for FD or Gov't Personnel]

Two technicians from the Shuttle Bus facility immediately used loose absorbent to contain and absorb the spill. UMD Fire Marshall and 3 shuttle bus technicians finished cleaned up the spill using the absorbent dust and pads from the spill kit next to the tank. All of the spilled oil was contained within the impervious area around the oil tank.

Responsible Party : Procedures, Methods and Precautions instituted to prevent recurrance of the spill. (Additional space on back) [Optional for FD or Gov't Personnel]

The facility inspected their fuel level alarm to determine the reason it did not sound at the manually adjusted level of 3/4 to 7/8 full. It was noted that the 9V battery in the alarm was low and once it was replaced, the alarm was tested and determined to be in working order. The used oil tank was also pumped out on 8/07/2021 and will be pumped out regularly.

THE UNDERSIGNED CERTIFIES THAT THE INFORMATION PROVIDED IS TRUE AND CORRECT TO THE BEST OF HIS OR HER KNOWLEDGE AT THE TIME THE REPORT WAS COMPLETED.

Print Name: Kaitlyn Peterson **Company or Fire Department:** University of Maryland
Address : 4716 Pontiac Street **City / State / Zip** College Park, MD 20742
Telephone 202-308-8273 **Signature** _____

MARYLAND DEPARTMENT of the ENVIRONMENT
1800 WASHINGTON BOULEVARD
BALTIMORE , MARYLAND. 21230
(410) 537-3000
1-800-633-6101 (within Maryland)
http://www.mde.state.md.us

State of Maryland
Department of the Environment
Emergency Response Division
1800 Washington Blvd. Suite #105
Baltimore , Maryland. 21230-1721

24 HOUR SPILL REPORTING
(Toll Free) 1-866-633-4686
EMERGENCY RESPONSE OFFICE
(410) 537-3975
RESPONSE OFFICE FACSIMILE
(410) 537-3932

PURSUANT TO THE PROVISIONS OF STATE LAW AND REGULATION; (COMAR 26.10.01.03) "A PERSON DISCHARGING OR PERMITTING THE DISCHARGE OF OIL, OR WHO EITHER ACTIVELY OR PASSIVELY PARTICIPATES IN THE DISCHARGE OR SPILLING OF OIL, EITHER FROM A LAND BASED INSTALLATION, INCLUDING VEHICLES IN TRANSIT, OR FROM ANY VESSEL SHIP OR BOAT OF ANY KIND, SHALL REPORT THE INCIDENT IMMEDIATELY TO THE ADMINISTRATION." " THE REPORT OF AN OIL SPILL OR DISCHARGE SHALL BE MADE TO THE ADMINISTRATION IMMEDIATELY, BUT NOT LATER THAN TWO HOURS AFTER DETECTION OF THE SPILL." *** * * *FIRE DEPARTMENT PERSONNEL , SEE REVERSE* * * ***

ADC Map Coord _____

Date of spill: Mo. 11 / Day 22 / Yr. 20 21 Time of spill: 14 28 Hours (24 hour clock)

Fire Department Report No.: _____ Police Department Report No.: _____

Location of spill - Street address:
Shuttle Bus Facility-University of Maryland
8537 Paint Branch Dr
City / Town College Park, MD
MD County Prince George's
Zip 20742

Product Name:
Diesel
(Indicate Gasoline, Diesel, Heating Oil, Chemical Name or UN ID etc.)
Container Type:
Tanker (Low Pressure Bulk Liquid)
(Indicate AST, UST, Transformer, Saddle Tank, Drum etc.)

Capacity of Vessel, Vehicle or Tank:
5000 Gallons
Amount ***IN*** Vessel, Vehicle or Tank:
4700 Gallons
Estimated ***Amount Spilled:***
12 Gallons

Transportation Incident:
Fuel delivery tanker
(Indicate Type of Auto, Truck, Train, Aircraft or Watercraft etc.)
Fixed Facility Incident:
Institutional
(Indicate Type of Industrial , Commercial , Residential etc.)

- [x] Contained on Land
- [ ] Entered Storm Drain or Ditch
- [ ] Entered Sanitary Sewer
- [ ] Is Below Ground
- [ ] Entered surface waters: (Waterway Name) _____

Vehicle Tag Number and State:
421E95 MD
DOT or ICC MC Number:
536632
Hull Numbers and Name**:** _____ _____

Person(s) Responsible for Spill: (Driver if Vehicle)
Name: Dennis
Address: Refused to provide information
City/State: _____ Zip: _____
Phone: _____
Drivers Lic.No._____ State:_____

Be Sure to Complete Both Sections
Don't Forget to Sign Below

Company Responsible for Spill: (N/A if private citizen.)
Name: JRP Fueling/James River Petroleum
Address: 10487 Lakeridge Pkwy
#8115
City/State: Ashland, VA Zip: 23005
Phone: 804.358.9000
Fed. Employer ID No. 54-1331068

Cause of Spill:
- [ ] Motor Vehicle Accident
- [ ] Personnel Error/Vandalism
- [ ] Tank/Container/Pipe Leak
- [x] Mechanical Failure
- [ ] Transfer Accident
- [ ] _____

Identify All Groups that *Participated* in Spill Mitigation :
- [x] Responsible Party
- [ ] **MDE ERD** # _____ # _____
- [ ] Federal : _____
- [ ] State : _____
- [x] Local : UMD
- [x] Contractor: On-Call First Response, Triumvirate

Materials used *by You* to contain/clean-up spill:
Sorbent Dust: 5 Bags
Sorbent Pads: _____ each or bales
Sorbent Booms: 4 each or bales
Sorbent Sweeps: _____ each or bales
Overpack Drums : 2 ea. Steel or Poly
Other:_____

Responsible Party : Describe circumstances contributing to the spill. (Additional space on back) [Optional for FD or Gov't Personnel]

At approximately 4:28 PM the Fire Marshal's Office was dispatched to the Shuttle Bus Facility for a diesel fuel spill. The leaking diesel fuel was determined to be a contractor spill on University of Maryland property. JRP Fueling was delivering diesel fuel to the Shuttle Bus Facility when a seal between the tank and a discharge valve failed. After containing the initial spill of approximately

Responsible Party : Describe Containment , Removal and Clean-up operations , including disposal. (Additional space on back) [Optional for FD or Gov't Personnel]

Shuttle Bus employees deployed oil booms and loose absorbent to contain the spill. The contractor (JRP) deployed oil absorbent pads underneath the tanker and discharge valve as well as a 5 gallon bucket to collect the trickle of diesel still leaking from the valve. Once it was determined the fuel had penetrated the soil adjacent to the parking lot, Shuttle

Responsible Party : Procedures, Methods and Precautions instituted to prevent recurrance of the spill. (Additional space on back) [Optional for FD or Gov't Personnel]

Install signage at fuel pad instructing all loading and unloading to be done with vehicle on the fuel pad where the OWS is located.

THE UNDERSIGNED CERTIFIES THAT THE INFORMATION PROVIDED IS TRUE AND CORRECT TO THE BEST OF HIS OR HER KNOWLEDGE AT THE TIME THE REPORT WAS COMPLETED.

Print Name: Kaitlyn Peterson **Company or Fire Department:** UMD-ESSR
Address : 4716 Pontiac St **City / State / Zip** College Park, MD, 20742
Telephone (301) 405-8604 **Signature** _____

MARYLAND DEPARTMENT of the ENVIRONMENT
1800 WASHINGTON BOULEVARD
BALTIMORE , MARYLAND. 21230
(410) 537-3000
1-800-633-6101 (within Maryland)
http://www.mde.state.md.us

State of Maryland
Department of the Environment
Emergency Response Division
1800 Washington Blvd. Suite #105
Baltimore , Maryland. 21230-1721

24 HOUR SPILL REPORTING
(Toll Free)1-866-633-4686
EMERGENCY RESPONSE OFFICE
(410) 537-3975
RESPONSE OFFICE FACSIMILE
(410) 537-3932

PURSUANT TO THE PROVISIONS OF STATE LAW AND REGULATION; (Environmental Article 4-401 (i) ; the "Person Responsible for the discharge includes , The owner of the discharged oil , The owner , operator and / or the person in charge of the oil storage facility, vessel , barge , or vehicle involved at the time of or immediately before the discharge ; and Any person who through act or ommission , causes the discharge."

**** * * Fire Department * * * and Local or State Government Agencies : Unless you are the responsible party as defined above , Please indicate " Unknown " in any box reuesting information that is unknown or unavailable to you at the time of report.***

This Space for continuation and additional information.

8 gallons, the contractor (JRP Fueling) called in another tanker to pump the initial leaking fuel tanker out. After the tanker was fulling emptied to the best of their abilities, the initial tanker started his tanker in an effort to leave UMD. However, once the tanker was put into gear, diesel began to spill again from the same discharge valve (approximately an additional 4 gallons).

Bus employees began to removed the contaminated soil and rocks. It was determined that the extent of the contaminated area was too expansive for the employees to handle and a contractor was contacted take over the clean-up operations. The impervious areas impacted where cleaned using loose absorbent and sweeping the material up into a 55-gallon drum. Once all the loose fuel was removed, the contaminated area was packed with loose absorbent for the night and to be re-evaluated in the morning. The following afternoon, Tuesday November 23rd, at 1:30pm, First Call Environmental was hired by the contractor (JRP) to remediate the contaminated area. First Call arrived with three (3) employees equipped with a hand shovel. It was determined this would not suffice and First Call initiated arrangements for earth-moving equipment and a roll-off to be delivered at the site. Monday, November 29th, Darnell Jackson of First Call contacted UMD stating First Call will be at Shuttle Bus circa 1:00pm on Nov 29 to begin the remediation project. UMD plans to continue to evaluate the remediation project and determine is additional work is needed due to the fact the area impacted is a sand filter BMP.

On Monday, November 29th, First Call removed approximately 1 cubic yard of contaminated soil with an excavator. The soil was placed into a lined roll-off dumpster and transported to Clean Harbors Environmental in Baltimore for disposal. First Call finished and left UMD around 5 pm.

THE UNDERSIGNED CERTIFIES THAT THE INFORMATION PROVIDED IS TRUE AND CORRECT TO THE BEST OF HIS OR HER KNOWLEDGE AT THE TIME THE REPORT WAS COMPLETED.

Print Name: Kaitlyn Peterson **Company or Fire Department:** UMD-ESSR

Address : 4716 Pontiac Street **City / State / Zip** College Park, MD 20742

Telephone (301) 405-8604 **Signature** Kaitlyn Peterson

MARYLAND DEPARTMENT of the ENVIRONMENT
1800 WASHINGTON BOULEVARD
BALTIMORE , MARYLAND. 21230
(410) 537-3000
1-800-633-6101 (within Maryland)
http://www.mde.state.md.us

State of Maryland
Department of the Environment
Emergency Response Division
1800 Washington Blvd. Suite #105
Baltimore , Maryland. 21230-1721

24 HOUR SPILL REPORTING
(Toll Free) 1-866-633-4686
EMERGENCY RESPONSE OFFICE
(410) 537-3975
RESPONSE OFFICE FACSIMILE
(410) 537-3932

PURSUANT TO THE PROVISIONS OF STATE LAW AND REGULATION; (COMAR 26.10.01.03) "A PERSON DISCHARGING OR PERMITTING THE DISCHARGE OF OIL, OR WHO EITHER ACTIVELY OR PASSIVELY PARTICIPATES IN THE DISCHARGE OR SPILLING OF OIL, EITHER FROM A LAND BASED INSTALLATION, INCLUDING VEHICLES IN TRANSIT, OR FROM ANY VESSEL SHIP OR BOAT OF ANY KIND, SHALL REPORT THE INCIDENT IMMEDIATELY TO THE ADMINISTRATION." " THE REPORT OF AN OIL SPILL OR DISCHARGE SHALL BE MADE TO THE ADMINISTRATION IMMEDIATELY, BUT NOT LATER THAN TWO HOURS AFTER DETECTION OF THE SPILL." * * * *FIRE DEPARTMENT PERSONNEL , SEE REVERSE* * * *

ADC Map Coord _____

Date of spill: Mo. 12 / Day 06 / Yr. 20 21 Time of spill: 1600 Hours (24 hour clock)

Fire Department Report No.: _____ Police Department Report No.: _____

Location of spill - Street address: 5245 Greenbelt Rd.

City / Town College Park
MD County Prince George's
Zip 20740

Product Name: petroleum product
(Indicate Gasoline, Diesel, Heating Oil, Chemical Name or UN ID etc.)
Container Type: Vehicle
(Indicate AST, UST, Transformer, Saddle Tank, Drum etc.)

Capacity of Vessel, Vehicle or Tank: 2 Gallons
Amount ***IN*** Vessel, Vehicle or Tank: 2 Gallons
Estimated ***Amount Spilled:*** 2 Gallons

Transportation Incident: Auto
(Indicate Type of Auto, Truck, Train, Aircraft or Watercraft etc.)
Fixed Facility Incident: Institutional
(Indicate Type of Industrial , Commercial , Residential etc.)

- [x] Contained on Land
- [ ] Entered Storm Drain or Ditch
- [ ] Entered Sanitary Sewer
- [ ] Is Below Ground
- [ ] Entered surface waters: (Waterway Name) _____

Vehicle Tag Number and State: 22427SG MD
DOT or ICC MC Number: _____
Hull Numbers and Name: _____ _____

Person(s) Responsible for Spill: (Driver if Vehicle)
Name: _____
Address: 5245 Greenbelt Rd.
City/State: College Park, MD Zip: 20740
Phone: _____
Drivers Lic.No. _____ State: MD

Be Sure to Complete Both Sections
Don't Forget to Sign Below

Company Responsible for Spill: (N/A if private citizen.)
Name: University of Maryland-Motor Pool
Address: 5245 Greenbelt Rd.
City/State: College Park, MD Zip: 20740
Phone: (301) 405-5482
Fed. Employer ID No. 52-6002033

Cause of Spill:
- [ ] Motor Vehicle Accident
- [ ] Personnel Error/Vandalism
- [ ] Tank/Container/Pipe Leak
- [x] Mechanical Failure
- [ ] Transfer Accident
- [ ] _____

Identify All Groups that *Participated* in Spill Mitigation :
- [x] Responsible Party
- [ ] **MDE ERD** # _____ # _____
- [ ] Federal : _____
- [x] State : University of Maryland
- [ ] Local : _____
- [ ] Contractor: _____

Materials used *by You* to contain/clean-up spill:
Sorbent Dust: 1 Bags
Sorbent Pads: 12 pads each or bales
Sorbent Booms: _____ each or bales
Sorbent Sweeps: _____ each or bales
Overpack Drums : _____ ea. Steel or Poly
Other: _____

Responsible Party : Describe circumstances contributing to the spill. (Additional space on back) [Optional for FD or Gov't Personnel]

At approximately 1600, a call was placed to the University of Maryland CRC of a spill being formed under a vechicle at the Severn Building. The CRC contacted the UMD Fire Marshall's who, in turn, sent out a message to those on call. Once on site, it was discovered that a vehicle was leaking it's transmission fluid onto the pavement below.

Responsible Party : Describe Containment , Removal and Clean-up operations , including disposal. (Additional space on back) [Optional for FD or Gov't Personnel]

The initial UMD personnel on site obtained spill containment materials and placed oil absorbent pads under the vehicle and onto the loose standing oil on the surrounding pavement. The vehicle was not able to be moved due to the loss of all it's transmission fluid, so in the mean time, absorbent pads were placed atop of all the loose standing oil and under

Responsible Party : Procedures, Methods and Precautions instituted to prevent recurrance of the spill. (Additional space on back) [Optional for FD or Gov't Personnel]

Ensure that proper maintenance of vehicles are being preformed and pre-start up inspections are being preformed. Check vehicles after parking for long periods of time that there are no spills or leaks before leaving vehicle unattended.

THE UNDERSIGNED CERTIFIES THAT THE INFORMATION PROVIDED IS TRUE AND CORRECT TO THE BEST OF HIS OR HER KNOWLEDGE AT THE TIME THE REPORT WAS COMPLETED.

Print Name: Kaitlyn Peterson **Company or Fire Department:** University of Maryland
Address : 4716 Pontiac Street, Suite 0103 **City / State / Zip** College Park, MD 20742
Telephone 202-308-8273 **Signature** _____

MARYLAND DEPARTMENT of the ENVIRONMENT
1800 WASHINGTON BOULEVARD
BALTIMORE , MARYLAND. 21230
(410) 537-3000
1-800-633-6101 (within Maryland)
http://www.mde.state.md.us

State of Maryland
Department of the Environment
Emergency Response Division
1800 Washington Blvd. Suite #105
Baltimore , Maryland. 21230-1721

24 HOUR SPILL REPORTING
(Toll Free)1-866-633-4686
EMERGENCY RESPONSE OFFICE
(410) 537-3975
RESPONSE OFFICE FACSIMILE
(410) 537-3932

PURSUANT TO THE PROVISIONS OF STATE LAW AND REGULATION; (Environmental Article 4-401 (i) ; the "Person Responsible for the discharge includes , The owner of the discharged oil , The owner , operator and / or the person in charge of the oil storage facility, vessel , barge , or vehicle involved at the time of or immediately before the discharge ; and Any person who through act or ommission , causes the discharge."

**** * * Fire Department * * * and Local or State Government Agencies : Unless you are the responsible party as defined above , Please indicate " Unknown " in any box reuesting information that is unknown or unavailable to you at the time of report.***

This Space for continuation and additional information.

the vehicle over night. At approximately 10:19 the following morning, Tuesday December 7th, the vehicle was towed from the parking lot to the Motor Pool maintenance facility. UMD Office of Environmental Affairs personnel arrived on scene at approximately 10:30 to further clean up the remaining loose standing oil and used oil absorbent pads. All clean up materials were placed in 15-gallon liners and disposed of in accordance to regulations.

THE UNDERSIGNED CERTIFIES THAT THE INFORMATION PROVIDED IS TRUE AND CORRECT TO THE BEST OF HIS OR HER KNOWLEDGE AT THE TIME THE REPORT WAS COMPLETED.

Print Name: Kaitlyn Peterson **Company or Fire Department:** University of Maryland

Address : 4716 Pontiac Street, Suite 0103 **City / State / Zip** College Park, MD 20742

Telephone 202-308-8273 **Signature**

Appendix C
Table of Aboveground Storage Tanks (ASTs)

Appendix C:
Table of Aboveground Storage Tanks (ASTs)

Tank ID	Bldg. Name	Bldg. #	Map #	Tank Capacity	Est. Spill Rate (gal/hr)	Contents	Containment	Type	Details	Storm Drain Location	Receiving Outfall
55A	Gudelsky Veterinary Science	795	1	1,000	Gradual to Instantaneous	Diesel	Double Wall	AST	AST for Generator	75' E	Ditch
55C	Gudelsky Veterinary Science	795	1	80	Gradual to Instantaneous	Diesel	Double Wall	Day Tank	Day tank for Generator	75' E	Ditch
55D	Gudelsky Veterinary Science	795	1	80	Gradual to Instantaneous	Diesel	Double Wall	Day Tank	Day tank for Generator	75' E	Ditch
57	Lab for Physical Sciences	796	4	6,000	Gradual to Instantaneous	Diesel	Double Wall	Lube Cube	AST for Generator	75' NE	Ditch
78AB	Shuttle Bus	424	5	275	Gradual to Instantaneous	Motor oil	Double Wall	AST	VERT. AST	180' S	Stream
78AR	Shuttle Bus	424	5	275	Gradual to Instantaneous	Motor oil	Double Wall	AST	VERT. AST	180' S	Stream
89C	Severn	810	6	200	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	Portable Generator	Varies	Varies
96B	Johnson-Whittle Hall	435	8	555	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	Generator	53' SE	Pond
96A	Pyon-Chen Hall	434 PCH	8	555	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	Generator	70' NE	StormDrain
38A	Golf Maintenance	318	9	1,000	Gradual to Instantaneous	Gasoline	Double Wall	AST	HORIZ. AST	600' W	Pond
38B	Golf Maintenance	318	9	500	Gradual to Instantaneous	Diesel	Double Wall	AST	HORIZ. AST	600' W	Pond
38C	Golf Maintenance	314	9	280	Gradual to Instantaneous	Waste Oil	Double Wall	AST	HORIZ. AST	600' W	Pond
52A	Grounds Operations	328	10	1,000	Gradual to Instantaneous	Gasoline	Double Wall	AST	HORIZ. AST	5' SE	Pond
52B	Grounds Operations	328	10	1,500	Gradual to Instantaneous	Diesel	Double Wall	AST	HORIZ. AST	5' SE	Pond
52C	Grounds Operations	328	10	280	Gradual to Instantaneous	Waste Oil	Double Wall	Lube Cube	HORIZ. AST	20' SE	Pond
71	Research Greenhouse	398	10	800	Gradual to Instantaneous	Diesel	Double Wall	AST	Generator	150' NE	Pond
84	Wye Oak Building	428	10	521	Gradual to Instantaneous	Diesel	Double Wall	AST	Generator	21' SW	StormDrain
67A	Xfinity Center	360	10	500	Gradual to Instantaneous	Diesel	Double Wall	AST	Generator	115' E	Pond
67B	Xfinity Center	360	10	500	Gradual to Instantaneous	Diesel	Double Wall	AST	Generator	145' NE	Pond
VZW	Xfinity Center	360	10	1,050	Gradual to Instantaneous	Diesel	Double Wall	AST	Generator	122' SW	Pond
78B	Shuttle Bus	424	11	20,000	Gradual to Instantaneous	Diesel	Double Wall	AST	HORIZ. AST	55' S	Pond
78C	Shuttle Bus	424	11	550	Gradual to Instantaneous	Waste Oil	Double Wall	AST	HORIZ. AST	180' S	Stream
94	Cole Field House	162	12	4,250	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	AST for Generator	82' NW	5
79A	Severn	810	12	12,000	Gradual to Instantaneous	#2 Fuel Oil	Double Wall	HORIZ. AST	AST	39' NE	StormDrain
79B	Severn	810	12	10,000	Gradual to Instantaneous	Gasoline	Double Wall	HORIZ. AST	AST	58' NW	StormDrain
79C	Severn	810	12	10,000	Gradual to Instantaneous	Gasoline	Double Wall	HORIZ. AST	AST	58' NW	StormDrain
79F	Severn	810	12	10,000	Gradual to Instantaneous	E-85	Double Wall	HORIZ. AST	AST	88' E	StormDrain
79G	Severn	810	12	280	Gradual to Instantaneous	Waste Oil	Double Wall	Lube Cube	AST	34' NW	StormDrain
79H	Severn	810	12	280	Gradual to Instantaneous	Motor oil	Double Wall	Lube Cube	AST	34' NW	StormDrain
79I	Severn	810	12	200	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	AST	Contained	-
79J	Severn	810	12	-	Gradual to Instantaneous	Oil	Double Wall	Undg. Pipe	Undg. Pipe	Contained	-
89A	Severn	810	12	80	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	Portable Generator	Varies	Varies
89B	Severn	810	12	468	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	Portable Generator	Varies	Varies
90	Severn (mobile tank)	810	12	110	Gradual to Instantaneous	Diesel	Double Wall	AST	Portable AST	Varies	Varies
72	Golf Course Club House	166	13	100	Gradual to Instantaneous	Diesel	Double Wall	AST	Generator	34' E	Pond
95	IDEA Factory	228	13	700	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	AST for Generator	155' SW	3
68	Clarice Smith Performing Arts	386	14	500	Gradual to Instantaneous	Diesel	Double Wall	AST	Generator	40' NE	Stream
42	Stadium Parking Garage	218	14	400	Gradual to Instantaneous	Diesel	Double Wall	AST	Generator	100' N	10
81	Atlantic Building	224	15	2,220	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	Generator	90' NW	4
23	Byrd Stadium Maintenance	369	15	250	Gradual to Instantaneous	Diesel	Double Wall	Lube Cube	HORIZ. AST	60' NE	4

Appendix C:
Table of Aboveground Storage Tanks (ASTs)

20	Campus Recreation Center	68	15	576	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	Generator	50' N	Stream
82	Physical Sciences Complex	415	15	660	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	Generator	90' NW	4
21	School of Public Health	255	15	660	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	Generator	50' W	19
25	A.V. Williams	115	16	60	Gradual to Instantaneous	Diesel	Double Wall	AST	Day tank	NE	4
27	Animal Science	142	16	1,000	Gradual to Instantaneous	Diesel	Double Wall	AST	AST for Generator	5' S	4
11	Seneca	812	17	250	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	Generator	130' SW	StormDrain
66A	Bioscience Research Bldg	413	20	1,350	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	Generator	14' N	4
66B	Bioscience Research Bldg	413	20	1,350	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	Generator	14' N	4
37	Cole Field House	162	20	275	Gradual to Instantaneous	Diesel	Double Wall	AST	Generator	140' NE	4
19	Dorchester	64	20	60	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	Generator	78' SW	5
69	H. J. Patterson	73	20	675	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	Generator	75' NE	4
6	Patuxent	10	20	1,000	Gradual to Instantaneous	Diesel	Double Wall	Lube Cube	AST for Generator	3' E	4
63	SCUB 3	392	20	1,350	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	Generator	100' SE	4
30A	Stamp Student Union	163	20	150	Gradual to Instantaneous	Food Grease	Sec. Cont.	AST	Used Food Oil/Grease	Contained	-
30B	Stamp Student Union	163	20	150	Gradual to Instantaneous	Food Grease	Sec. Cont.	AST	Used Food Oil/Grease	Contained	-
26	Computer Instructional Center	406	21	150	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	Generator	168' NE	3
80B	Engineering Laboratory Basement	89	21	250	Gradual to Instantaneous	Hydraulic oil	Double Wall	HORIZ. AST	Hydraulic Tank	Contained	-
80A	Engineering Laboratory Ground level	89	21	250	Gradual to Instantaneous	Hydraulic oil	Double Wall	HORIZ. AST	Hydraulic Tank	Contained	-
64A	SCUB 4	405	21	1,350	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	Generator	15' S	3
64B	SCUB 4	405	21	1,350	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	Generator	15' SW	3
64C	SCUB 4	405	21	1,000	Gradual to Instantaneous	Diesel	Double Wall	Lube Cube	AST for Generator	155' SW	3
75	Anne Arundel Hall	60	23	60	Gradual to Instantaneous	Diesel	Double Wall	Lube Cube	AST for Generator	170' NE	Grass
85	SCUB 5	416	23	189	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	Generator	Contained	-
15	Van Munching	39	23	500	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	Generator	10' S	12
9	Calvert Hall	15	24	250	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	Generator	10' SW	14
16R	Marie Mount	46	24	530	Gradual to Instantaneous	Diesel	Double Wall	Lube Cube	AST for Generator	15' NW	5
14R	McKeldin	35	24	215	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	AST for Generator	18' NE	5
86	Former CP Police Station	3	25	700	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	Generator	140' S	1
61	Leornardtown Community Cntr.	250	25	125	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	Generator	50' NE	7
3	Plant Ops./Maint.	6	25	250	Gradual to Instantaneous	Waste Oil	Double Wall	HORIZ. AST	HORIZ. AST	31' SSE	5
62	Plant Ops./Maint.	6	25	280	Gradual to Instantaneous	Waste Oil	Double Wall	HORIZ. AST	HORIZ. AST	31' SSE	5
1B	Plant Ops./Maint.	6	25	8,000	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	HORIZ. AST	20' SE	5
2A	Plant Ops./Maint.	6	25	252,762	Gradual to Instantaneous	#2 Fuel Oil	Dike	VERT. AST	AST	20' SE	5
2B	Plant Ops./Maint.	6	25	252,762	Gradual to Instantaneous	#2 Fuel Oil	Dike	VERT. AST	AST	20' SE	5
83	Pocomoke Building	7	25	2,400	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	Generator	50' SE	StormDrain
4	Ritchie Coliseum	4	25	250	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	Generator	5' E	5
65	Steam Plant	1	25	300	Gradual to Instantaneous	Diesel	Double Wall	HORIZ. AST	Generator	200' N	1
7	Steam Plant	1	25	250	Gradual to Instantaneous	Used Oil	Sec. Cont.	AST	HORIZ. AST	150' N	1
10	SCUB 1	19	28	250	Gradual to Instantaneous	Diesel	Double Wall	Lube Cube	AST for Generator	50' E	6
			Total Storage:	**623,328**							

Appendix D
Table of Oil-Filled Operational Equipment

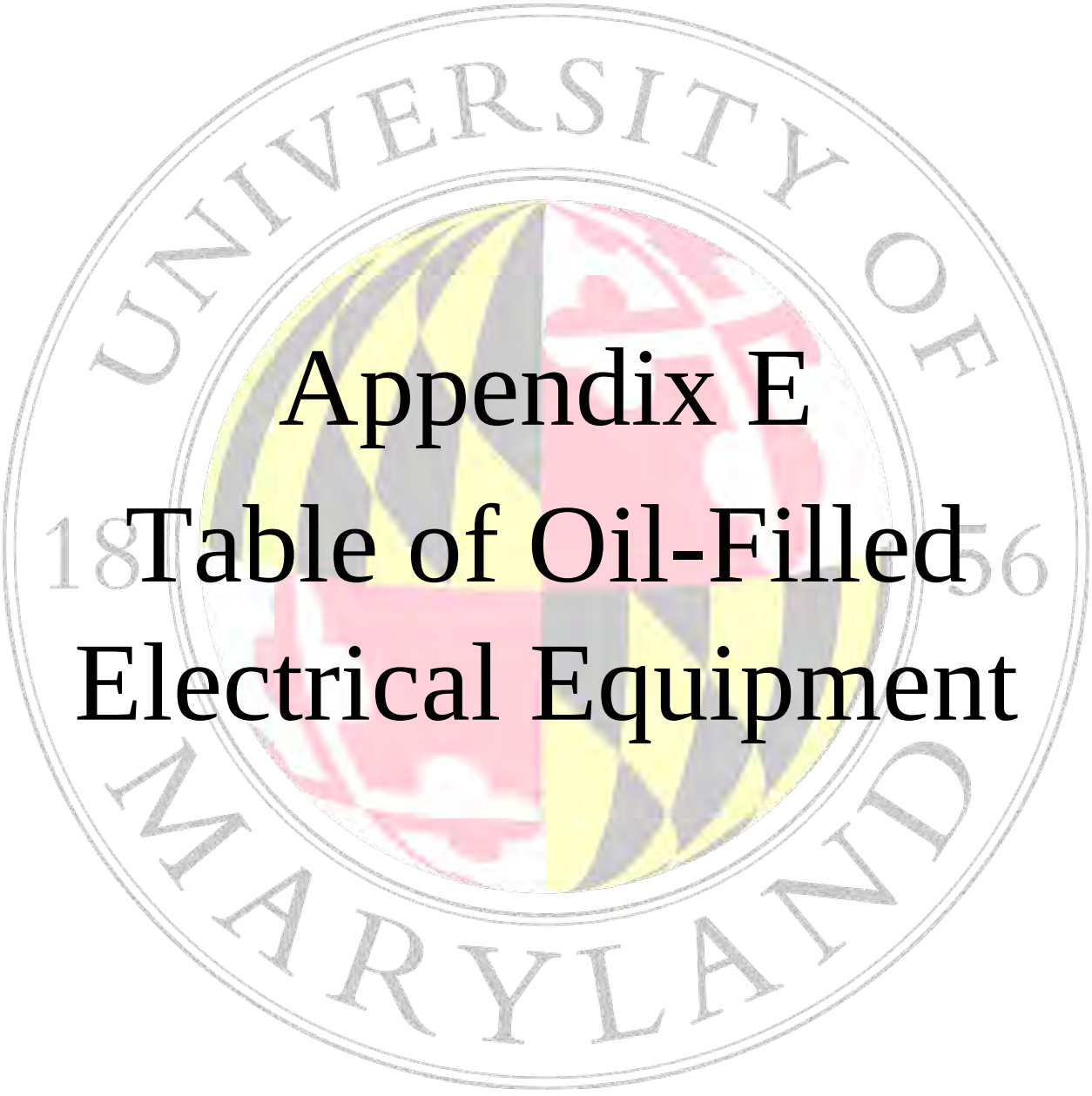
Appendix D:
Table of Oil-Filled Operational Equipment
Hydaulic Elevators

ID	Bldg. Name	Bldg. #	Capacity	Contents	Room #	Receiving Outfall
1	Laboratory for Physical Sciences	796	Apprx. 125	Hydraulic oil	100	Contained
2	Chesapeake	338	Apprx. 125	Hydraulic oil	1103	Contained
3	Xfinity Center	360	Apprx. 125	Hydraulic oil	2301	Contained
4	Arena Parking Garage	403	Apprx. 125	Hydraulic oil	Level A	Contained
5	Arena Parking Garage	403	Apprx. 125	Hydraulic oil	Level A	Contained
6	Arena Parking Garage	403	Apprx. 125	Hydraulic oil	Level A	Contained
7	Golf Course Club House	166	Apprx. 125	Hydraulic oil	B0100D	Contained
8	Stadium Garage (PG 3)	218	Apprx. 125	Hydraulic oil	NW Level G	Contained
9	Stadium Garage (PG 3)	218	Apprx. 125	Hydraulic oil	SW Level G	Contained
10	Clarice Smith Performing Arts	386	Apprx. 125	Hydraulic oil	1206	Contained
11	Clarice Smith Performing Arts	386	Apprx. 125	Hydraulic oil	1232	Contained
12	Clarice Smith Performing Arts	386	Apprx. 125	Hydraulic oil	2175	Contained
13	Clarice Smith Performing Arts	386	Apprx. 125	Hydraulic oil	1201	Contained
14	Clarice Smith Performing Arts	386	Apprx. 125	Hydraulic oil	1724	Contained
15	Clarice Smith Performing Arts	386	Apprx. 125	Hydraulic oil	1752	Contained
16	Clarice Smith Performing Arts	386	Apprx. 125	Hydraulic oil	1524	Contained
17	Clarice Smith Performing Arts	386	Apprx. 125	Hydraulic oil	0728	Contained
18	Campus Recreation Center	068	Apprx. 125	Hydraulic oil	B0114	Contained
19	Campus Recreation Center	068	Apprx. 125	Hydraulic oil	B0101	Contained
20	Chem. & Nucl. Engineering	090	Apprx. 125	Hydraulic oil	1145	Contained
21	Chem. & Nucl. Engineering	090	Apprx. 125	Hydraulic oil	1213	Contained
22	Chem. & Nucl. Engineering	090	Apprx. 125	Hydraulic oil	1303	Contained
23	Cambridge Area Dining Hall	097	Apprx. 125	Hydraulic oil	B0105	Contained
24	Animal Science	142	Apprx. 125	Hydraulic oil	0418	Contained
25	School Of Public Health	255	Apprx. 125	Hydraulic oil	0315	Contained
26	School Of Public Health	255	Apprx. 125	Hydraulic oil	0245	Contained
27	School Of Public Health	255	Apprx. 125	Hydraulic oil	0123	Contained
28	Institute for Phy. Sci. and Tech.	085	Apprx. 125	Hydraulic oil	B0103A	Contained
29	Cambridge Hall	096	Apprx. 125	Hydraulic oil	0211	Contained
30	A.V. Williams	115	Apprx. 125	Hydraulic oil	1152A	Contained
31	A.V. Williams	115	Apprx. 125	Hydraulic oil	1152A	Contained
32	Energy Research	223	Apprx. 125	Hydraulic oil	0200	Contained
33	Kim Engineering Building	225	Apprx. 125	Hydraulic oil	1104	Contained
34	Kim Engineering Building	225	Apprx. 125	Hydraulic oil	1104	Contained
35	Kim Engineering Building	225	Apprx. 125	Hydraulic oil	1224	Contained
36	Tech. Advancement Prog Bldg	387	Apprx. 125	Hydraulic oil	1111	Contained
37	J. M. Patterson Hall	083	Apprx. 125	Hydraulic oil	1206	Contained
38	Biomolecular Sciences Building	296	Apprx. 125	Hydraulic oil	1114E	Contained
39	Samuel Riggs IV Alumni Bldg.	407	Apprx. 125	Hydraulic oil	1120A	Contained
40	Samuel Riggs IV Alumni Bldg.	407	Apprx. 125	Hydraulic oil	1120A	Contained
41	Patuxent	010	Apprx. 125	Hydraulic oil	B0103	Contained
42	Jimenez Hall	034	Apprx. 125	Hydraulic oil	0102B	Contained
43	Mitchell Building	052	Apprx. 125	Hydraulic oil	0116A	Contained
44	Dorchester Hall	064	Apprx. 125	Hydraulic oil	0124A	Contained
45	H. J. Patterson Hall	073	Apprx. 125	Hydraulic oil	0203	Contained
46	Holzapfel Hall	074	Apprx. 125	Hydraulic oil	0116B	Contained
47	Symons Hall	076	Apprx. 125	Hydraulic oil	3313	Contained
48	Physics	082	Apprx. 125	Hydraulic oil	0116	Contained
49	Physics	082	Apprx. 125	Hydraulic oil	SB0333A	Contained
50	Chemistry	091	Apprx. 125	Hydraulic oil	0515A	Contained
51	Health Center	140	Apprx. 125	Hydraulic oil	0109	Contained
52	Health Center	140	Apprx. 125	Hydraulic oil	0170L	Contained

Appendix D:
Table of Oil-Filled Operational Equipment
Hydaulic Elevators

53	Cole Field House	162	Apprx. 125	Hydraulic oil	SO1000	Contained
54	Stamp Student Union	163	Apprx. 125	Hydraulic oil	B1004	Contained
55	Stamp Student Union	163	Apprx. 125	Hydraulic oil	B0202	Contained
56	Stamp Student Union	163	Apprx. 125	Hydraulic oil	B0202	Contained
57	Stamp Student Union	163	Apprx. 125	Hydraulic oil	SB0240	Contained
58	Stamp Student Union	163	Apprx. 125	Hydraulic oil	SB0201	Contained
59	Stamp Student Union	163	Apprx. 125	Hydraulic oil	B0106M	Contained
60	Stamp Student Union	163	Apprx. 125	Hydraulic oil	B0106M	Contained
61	Football Team Building	379	Apprx. 125	Hydraulic oil	0108	Contained
62	Chemistry	091	Apprx. 125	Hydraulic oil	0515B	Contained
63	Mathematics	084	Apprx. 125	Hydraulic oil	5200A	Contained
64	Mathematics	084	Apprx. 125	Hydraulic oil	4920	Contained
65	Microbiology	231	Apprx. 125	Hydraulic oil	0118A	Contained
66	Nyumburu Cultural Center	232	Apprx. 125	Hydraulic oil	100	Contained
67	Geology	237	Apprx. 125	Hydraulic oil	1116	Contained
68	Martin Hall	088	Apprx. 125	Hydraulic oil	0203A	Contained
69	Martin Hall	088	Apprx. 125	Hydraulic oil	0401A	Contained
70	Computer Science Instr. Center	406	Apprx. 125	Hydraulic oil	1119	Contained
71	Van Munching Hall	039	Apprx. 125	Hydraulic oil	B0504	Contained
72	Van Munching Hall	039	Apprx. 125	Hydraulic oil	B0504	Contained
73	Van Munching Hall	039	Apprx. 125	Hydraulic oil	B0504	Contained
74	Van Munching Hall	039	Apprx. 125	Hydraulic oil	0101A	Contained
75	Van Munching Hall	039	Apprx. 125	Hydraulic oil	0101A	Contained
76	Van Munching Hall	039	Apprx. 125	Hydraulic oil	0102A	Contained
77	Van Munching Hall	039	Apprx. 125	Hydraulic oil	0102A	Contained
78	Anne Arundel Hall	060	Apprx. 125	Hydraulic oil	0113	Contained
79	Tawes Fine Arts	141	Apprx. 125	Hydraulic oil	0146	Contained
80	Benjamin Hall	143	Apprx. 125	Hydraulic oil	107	Contained
81	Architecture	145	Apprx. 125	Hydraulic oil	0104	Contained
82	South Campus Dining Hall	026	Apprx. 125	Hydraulic oil	0195	Contained
83	South Campus Dining Hall	026	Apprx. 125	Hydraulic oil	0119A	Contained
84	South Campus Dining Hall	026	Apprx. 125	Hydraulic oil	0119A	Contained
85	Shoemaker Hall	037	Apprx. 125	Hydraulic oil	0141	Contained
86	LeFrak Hall	038	Apprx. 125	Hydraulic oil	0211A	Contained
87	Taliaferro Hall	043	Apprx. 125	Hydraulic oil	B0105	Contained
88	Skinner Bldg.	044	Apprx. 125	Hydraulic oil	0101	Contained
89	Marie Mount Hall	046	Apprx. 125	Hydraulic oil	0407A	Contained
90	Marie Mount Hall	046	Apprx. 125	Hydraulic oil	0403A	Contained
91	Woods Hall	047	Apprx. 125	Hydraulic oil	B0200D	Contained
92	Journalism	059	Apprx. 125	Hydraulic oil	1100	Contained
93	Somerset Hall	063	Apprx. 125	Hydraulic oil	0118	Contained
94	Lee Building	071	Apprx. 125	Hydraulic oil	0117C	Contained
95	Main Administration	077	Apprx. 125	Hydraulic oil	B0119A	Contained
96	Queen Anne's Hall	061	Apprx. 125	Hydraulic oil	104	Contained
97	Ritchie Coliseum	004	Apprx. 125	Hydraulic oil	0102	Contained
98	Annapolis Hall	008	Apprx. 125	Hydraulic oil	0104	Contained
99	Parking Garage #5	404	Apprx. 125	Hydraulic oil	NW Level G	Contained
100	Parking Garage #5	404	Apprx. 125	Hydraulic oil	NE Level G	Contained
101	Susquehanna Hall	233	Apprx. 125	Hydraulic oil	1126	Contained

Total Capacity (Approx.) 12,625



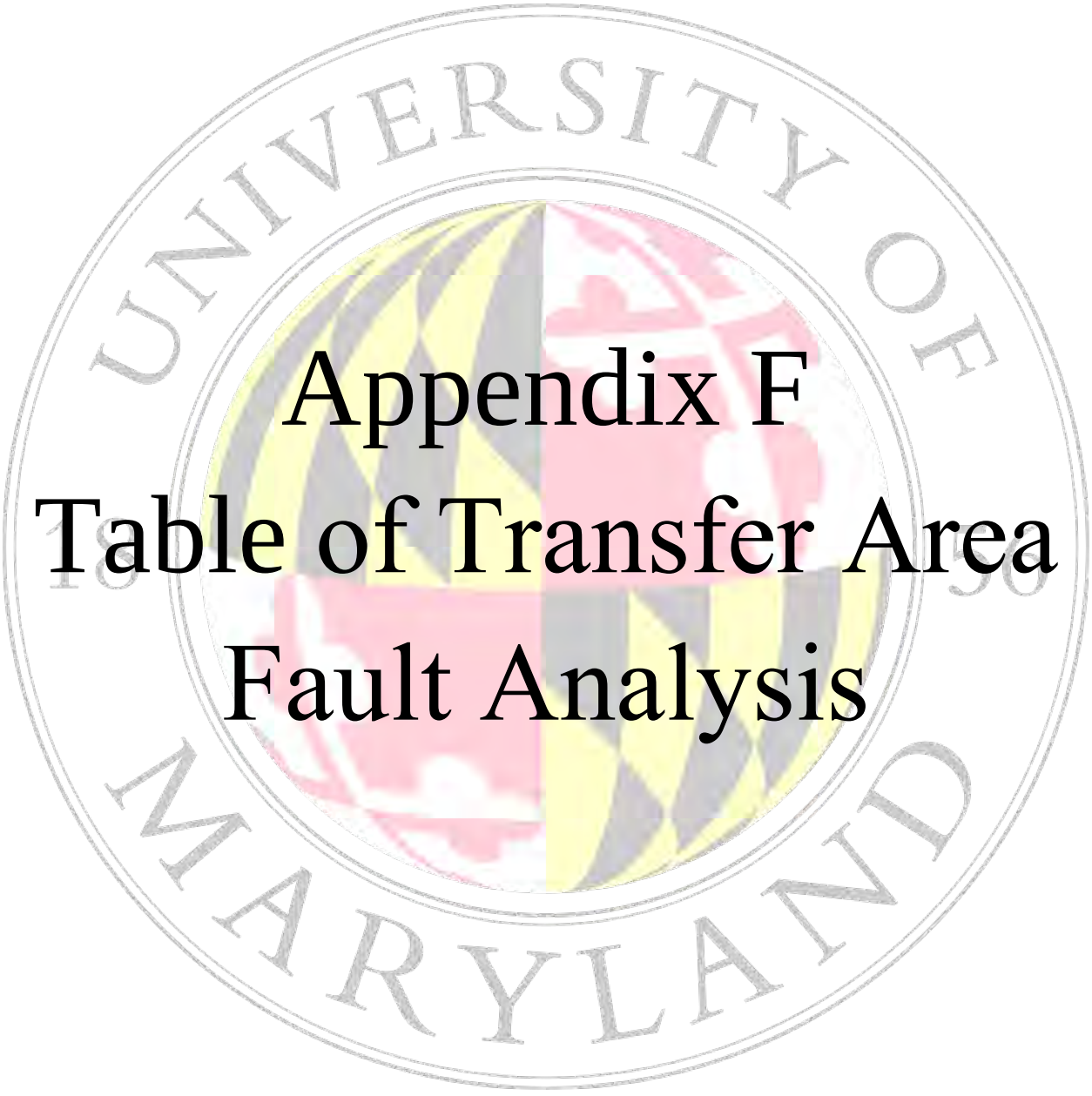
Appendix E
Table of Oil-Filled Electrical Equipment

Appendix E:
Table of Oil-Filled Electrical Equipment
Transformers

Transformer ID	Bldg. Name	Bldg. #	Capacity (gallons)	Contents	Location Details	Storm Drain Location	Receiving Outfall
1	Laboratory for Physical Sciences	796	365	Mineral Oil	West 796	26' NE	Pond
2	Laboratory for Physical Sciences	796	423	Mineral Oil	South 796	20' SW	Pond
3	Chesapeake Building	338	494	Mineral Oil	North 338	219 NE	Pond 200ft SE
4	Xfinity Arena A	360	542	Mineral Oil	North 360	105' NE	Pond 400ft N
5	Xfinity Arena B	360	378	Mineral Oil	North 360	105' NE	Pond 400ft N
6	Xfinity Arena C	360	370	Mineral Oil	North 360	105' NE	Pond 400ft N
7	Research Greenhouse	398	450	Mineral Oil	B398	200' NE	Pond 200ft E
8	Arena Parking Garage (PG-4)	403	296	Mineral Oil	South 403	105' NE	Pond 400ft N
9	Shuttle Bus Facility	424	276	Mineral Oil	SW 107	124' NW	Wetlands 100ft NE
10	North Field Lights/Shuttle Bus Facility	424	217	Mineral Oil	S. Nor Sub	690' SW	004
11	Golf Course Club House	166	163	Mineral Oil	Southwest 166	20' NE	Ditch 400ft SE
12	Indoor Practice Facility	309	163	Mineral Oil	Southwest 309	290' E	Ditch 290ft SE
13	Stadium Garage #3	218	166	Mineral Oil	Northwest 218	36' SW	Stream 1000ft N
14	Denton Area Dining Hall	251	370	Mineral Oil	Northeast 251	175' NE	Stream 700ft N
15	Easton Hall	253	370	Mineral Oil	B353	203' SE	Storm Drain
16	Ellicott Area Dining Hall	257	458	Mineral Oil	Southwest 257B	63' E	Stream 500ft N
17	Hagerstown Hall	258	370	Mineral Oil	Northeast 258	67' NW	
18	Center For Young Children	381	170	Mineral Oil	Southwest 381B	150' W	Pond 500ft NE
19	Clarice Smith Performing Arts Center Trans #1	386	730	Mineral Oil	West 386	28' SW	Stream 200ft NW
20	Clarice Smith Performing Arts Center Trans #2	386	730	Mineral Oil	West 386	35' SW	Stream 200ft NW
21	Oakland Hall	419	641	Mineral Oil	B419	66' SW	Storm Drain
22	Cumberland Hall	122	378	Mineral Oil	Southeast 122	205' SE	Stream 600ft N
23	Animal Science	142	162	Mineral Oil	Northwest 142	125' SW	004
24	Animal Science	142	242	Mineral Oil	Northwest 142 (ESW)	65' SW	004
25	Animal Science	142	242	Mineral Oil	Northwest 142	65' SW	004
26	Manufacturing	148	348	Mineral Oil	North 148	190' SW	Pond 190ft E
27	Atlantic Building	224	391	Mineral Oil	Northeast 224 (ESW)	34' W	004
28	Atlantic Building	224	585	Mineral Oil	Northeast 224 (ESW)	34' W	004
29	Atlantic Building	224	675	Mineral Oil	Northeast 224 (ESW)	34' W	004
30	Jull Hall	227	325	Mineral Oil	Northwest 227	100' W	004
31	School Of Public Health West	255	400	Mineral Oil	B255	58' E	Storm Drain
32	School Of Public Health	255	675	Mineral Oil	B255	40' SE	Storm Drain
33	Laplata Hall	259	370	Mineral Oil	Room 0112	47' E	Stream 500ft N
34	Laplata Hall	259	188	Mineral Oil	Room 0112	47' E	Stream 500ft N
35	Bryd Stadium North Lights	368	320	Mineral Oil	Southeast 256	430' E	004
36	Physical Sciences Complex	415	589	Mineral Oil	B415	57' SE	Storm Drain
37	Campus Recreation Center	068	523	Mineral Oil	Northeast 068	150' SW	Stream 100ft N
38	Chem & Nuclear Engineering	090	311	Mineral Oil	Room 1141	12' NW	004
39	Chem & Nuclear Engineering	090	257	Mineral Oil	Room 1141	12' NW	004
40	Engineering Research	093	229	Mineral Oil	South 093	31' W	004
41	Cambridge Community Center	097	496	Mineral Oil	Southwest 099	225' SW	Stream 800ft NE
42	Agriculture Shed	102	105	Mineral Oil	East 142	60' SW	Stream 800ft NE
43	A.V. Williams-N Wing - PH II	115	690	Mineral Oil	Northeast 115	61' SE	004
44	A.V. Williams-N Wing - PH II	115	690	Mineral Oil	Northeast 115	61' SE	004
45	A.V. Williams-S Wing - PH I	115	725	Mineral Oil	Southeast 115	NA to Storm Drain	004
46	Energy Research	223	296	Mineral Oil	Southeast 223	30' S	Stream 300ft E
47	Energy Research	223	512	Mineral Oil	Southeast 223	30' S	Stream 300ft E
48	Energy Research	223	378	Mineral Oil	Northwest 223	100' E to stream	Stream 300ft E
49	Kim Engineering	225	378	Mineral Oil	West 225	100'E	004
50	Kim Engineering	225	378	Mineral Oil	West 225	100'E	004
51	Biomolecular Sciences Building	296	477	Mineral Oil	Southwest 296	100' SW	Stream 200ft NE
52	Tech. Advancement Prog Bldg	387	393	Mineral Oil	Southeast 387	4' W	Pond 100ft N
53	Central Animal Resources	087	176	Mineral Oil	East 087	11' W	004
54	College Park Marriott Hotel & Conference Center-East	345	256	Mineral Oil	345-2	88' SW	Storm Drain
55	College Park Marriott Hotel & Conference Center-East	345	296	Mineral Oil	345-1	127' SW	Storm Drain
56	College Park Marriott Hotel & Conference Center-West	345	448	Mineral Oil	345-3	100' SW	Storm Drain
57	Tyser Tower	361	641	Mineral Oil	B361	38' SW	Storm Drain
58	Kehoe Sports Facility	388	176	Mineral Oil	West 388	257' S	Ditch 200ft SW
59	Riggs Alumni Center	407	613	Mineral Oil	Southeast 407	41' W	003
60	Knight Hall	417	287	Mineral Oil	B417	68' SW	Storm Drain
61	Capital One Field at Maryland Stadium	125	263	Mineral Oil	B125	109'	Storm Drain
62	Health Center	140	257	Mineral Oil	Southwest 140	57' ESE	005
63	Hornbake Library	147	563	Mineral Oil	Northeast 147	38' SE	002
64	Varsity Sports Team House	158	165	Mineral Oil	North 158	11' W	004
65	Cole Field House	162	267	Mineral Oil	East 162	15' N	004
66	Edward St. John Learning & Teaching Center	226	126	Mineral Oil	South 226	NA	002
67	Edward St. John Learning & Teaching Center	226	105	Mineral Oil	Northwest 226	89' N	002
68	Football Team Building	379	450	Mineral Oil	Northeast 379	20' N	004
69	SCUB III	392	257	Mineral Oil	West 392	23' N	004
70	SCUB III Addition	392	646	Mineral Oil	West 392	23' N	004
71	Patuxent	010	288	Mineral Oil	Southwest 010	100' E	004
72	Jimenez Hall	034	198	Mineral Oil	Southeast 140	45' E	005

Appendix E:
Table of Oil-Filled Electrical Equipment
Transformers

73	Plant Sciences	036	505	Mineral Oil	South 036 (Center-SW)	14' N	002
74	Plant Sciences	036	555	Mineral Oil	South 036 (ESW)	14' N	002
75	Plant Sciences	036	555	Mineral Oil	South 036 (WSW)	14' N	002
76	Mitchell	052	253	Mineral Oil	B052	388' SE	Storm Drain
77	Dorchester Hall	064	140	Mineral Oil	West 064	42' NE	005
78	H. J. Patterson Hall	073	426	Mineral Oil	Room 0116A	40' E	005
79	H. J. Patterson Hall	073	407	Mineral Oil	Room 0242	40' E	005
80	Symons Hall	076	296	Mineral Oil	Southwest 076	45' E	002
81	Physics	082	407	Mineral Oil	West 082	63' N	004
82	Physics	082	449	Mineral Oil	North 082	31' S	004
83	Chemistry Wing II	091	296	Mineral Oil	South Side	52' S	003
84	Chemistry Wing III	091	423	Mineral Oil	ENE 091	60' SW	003
85	Chemistry	091	500	Mineral Oil	Room 0102	15' E	003
86	Chemistry Wing V	091	423	Mineral Oil	B091	75' SW	003
87	Scub IV A	405	407	Mineral Oil	West Side 405	150' NW	003
88	Scub IV B	405	423	Mineral Oil	West Side 405	165' NW	003
89	Scub IV C	405	423	Mineral Oil	West Side 405	180' NW	003
90	Scub IV D	405	423	Mineral Oil	East 091	140' N	003
91	Computer Science Instructional Center	406	239	Mineral Oil	Southeast 115	NA to Outfall	004
92	Wind Tunnel	081	600	Mineral Oil	B081	212' E	Pond
93	Engineering Laboratory	089	420	Mineral Oil	West 089	105' S	003
94	Engineering Laboratory	089	320	Mineral Oil	West 089	105' S	003
95	The Hotel Parking Lot	-	100	Mineral Oil	East Adj. Campus Drive	36' S	001
96	Tawes Fine Arts	141	250	Mineral Oil	Northeast 141	76' NW	012
97	Tawes Scub	141	457	Mineral Oil	B141	53' NE	Storm Drain
98	Benjamin	143	296	Mineral Oil	Southwest 143	283' SW	005
99	Architecture	145	320	Mineral Oil	Room B0103	73' SE	012
100	SCUB V	416	475	Mineral Oil	B416	145' NW	Storm Drain
101	SCUB VI	418	523	Mineral Oil	B419	66' SW	Storm Drain
102	SCUB VI	418	194	Mineral Oil	B419	66' SW	Storm Drain
103	Van Munching (Addition)	039	359	Mineral Oil	Northeast 039	West 400	78' SE
104	Van Munching	039	418	Mineral Oil	Northwest 039	78' SE	012
105	Memorial Chapel	009	75	Mineral Oil	Room Elec	22' W	006
106	Shoemaker	037	237	Mineral Oil	South 037	62' SE	014
107	Lefrak Hall	038	330	Mineral Oil	West Mech Rm.	49 SW	014
108	Morrill Hall	040	153	Mineral Oil	West 040	99' E	005
109	Tydings Hall	042	100	Mineral Oil	Southwest 042	99' E	005
110	Skinner	044	252	Mineral Oil	East 044	9' N	005
111	Francis Scott Key Hall	048	189	Mineral Oil	Northeast 048	100' SE	005
112	Preinkert Field House	054	218	Mineral Oil	South 054	215' SW	014
113	Chincoteague	059	140	Mineral Oil	East 059	NA to Outfall	005
114	Somerset Hall	063	374	Mineral Oil	Northeast 063	260' N	005
115	SCUB II	067	520	Mineral Oil	South 067	62' S	014
116	Lee	071	153	Mineral Oil	Room Mech	135' ENE	005
117	Main Admin	077	253	Mineral Oil	South 077	400' E	005
118	Kappa Alpha #1Frat. Row	126	302	Mineral Oil	East 126	240' E	005
119	Beta Theta Pi #6 Frat. Row	131	302	Mineral Oil	North 131	146' NE	005
120	Sigma Kappa #10 Frat. Row	135	302	Mineral Oil	East 135	38' E	006
121	Leonardtown Office Building	201	144	Mineral Oil	Southwest 201	100' W	007
122	Leonardtown Modular	238	180	Mineral Oil	West 238	68' N	007
123	Leonardtown Modular	240	180	Mineral Oil	East 240	11' N	007
124	Leonardtown Modular	242	180	Mineral Oil	East 242	93' N	007
125	Leonardtown Modular	243	170	Mineral Oil	Norhtwest 243	45' W	007
126	Leonardtown Modular	244	210	Mineral Oil	Southeast 244	44' W	005
127	Leonardtown Modular	245	210	Mineral Oil	Southwest 245	23' N	005
128	Leonardtown Modular	246	210	Mineral Oil	Norhtwest 246	45' SE	006
129	Leonardtown Modular	247	210	Mineral Oil	Southwest 247	44' SE	006
130	Leonardtown Modular	248	210	Mineral Oil	Northeast 248	58' E	006
131	Leonardtown Modular	249	210	Mineral Oil	Northwest 249	58' N	006
132	Leonardtown Modular	250	350	Mineral Oil	Southwest 250	68' N	006
133	Ellicott Hall	256	379	Mineral Oil	Room 0119	57' N	Stream 500ft N
134	Central Heating Plant	001	418	Mineral Oil	Northeast 001	11' W	004
135	Central Heating Plant	001	213	Mineral Oil	West 006	106' NW	016
136	Ritchie Coliseum	004	296	Mineral Oil	East 004	7' E	005
137	Service Building Annex	005	279	Mineral Oil	East 005	155' SE	016
138	Plant Maintenance Shops	006	263	Mineral Oil	West 006	111' NW	016
139	Motor Transport Facility	011	275	Mineral Oil	Northwest 011	166' NE	016
140	Parking Garage #5	404	325	Mineral Oil	Norhtwest 404	140' SW	12
141	Susquehanna Hall	233	194	Mineral Oil	West 233	130' SW	004
142	Harford Hall	014	147	Mineral Oil	Southeast 014	110' W	014
143	Leonardtown Modular	239	180	Mineral Oil	Southwest 239	250' E	007
144	Leonardtown Modular	241	170	Mineral Oil	Southwest 241	76' E	007
	Total Oil Storage:		**49,133**				



Appendix F
Table of Transfer Area Fault Analysis

Appendix F
Table of Transfer Area Fault Analysis

Transfer Area	Bldg. Name	Bldg. #	Company	Largest Compartment (gallons)	Flow Rate (GPM)	Est. Spill Rate (gal/hr)	Product Transferred	Storm Drain Location	Receiving Outfall
Parking Lot K2	Plant Operations and Maintenance	006	Mansfield Energy-Petrol Express	8,500	300	Gradual to Instantaneous	Diesel	20' SE	5
Fuel Island**	Severn	810	James River Petroleum	10,000	13	Gradual to Instantaneous	Gasoline, E-85	58' NW	StormDrain
Refueling Area	Shuttle Bus Facility	424	Carroll Fuel	3,500	350	Gradual to Instantaneous	Diesel	55' S	Pond
Mobile Refuler	Various	-	University of Maryland	100	20	Gradual to Instantaneous	Diesel	-	-

**Values are estimated

Appendix G

Oil/Water Separator (OWS) SOP and Monthly Inspection

SOP 11: OIL/WATER SEPARATOR (OWS) MAINTENANCE

Oil/water separators (OWS) are structural devices intended to allow oils (and substances lighter than water) to be intercepted and be removed for disposal. Substances heavier than water settle into sludge at the bottom of the unit. The remaining water passes through the unit into the sanitary sewer system.

OWS units are generally required where petroleum-based products, wastes containing petroleum, or oily and/or flammable materials are used, produced, or stored. OWS units should not be used to manage stormwater or flow from vehicle washing facilities. High flow rates through an OWS will reduce the structure's ability to separate materials. Detergents and solvents can emulsify oil and grease, allowing the particles to enter the sewer, so these should not be disposed of in drains entering the OWS.

General OWS Maintenance Requirements

1. Each OWS at a facility may receive different materials in different quantities, so the cleanout schedule may not be the same for every OWS at a facility.
2. Employees performing inspections of an OWS must be properly trained and be familiar with the maintenance of that specific structure, since function can vary based on design. Third-party firms may be utilized to perform quarterly inspections.
3. Do not drain petroleum, oil, or lubricants directly to an OWS. The structures are designed to manage these materials at low and medium concentrations in sanitary sewage, not as slug loads.
4. Do not drain antifreeze, degreasers, detergents, fuels, alcohols, solvents, coolant, or paint to the OWS.
5. Separator compartment covers should be tightly sealed to ensure drainage only enters the first compartment of the OWS.
6. Drains should be kept free of debris and sediment to the maximum extent practicable.
7. Spill cleanup materials should be maintained in the area served by the OWS.

OWS Inspection Procedures

Daily inspection of an OWS should include a visual examination of the area served by the OWS for evidence of spills or leaks.

Monthly inspections of an OWS should include the following:

1. Visually examine the area served by the OWS for evidence of spills or leaks.
2. Inspect the point of discharge (i.e., sewer manhole) for evidence of petroleum bypassing the OWS.
3. Inspect drains for any signs of unauthorized substances entering the OWS.
4. Examine the OWS for signs of leaks or any malfunction.
5. Complete the Monthly OWS Inspection Checklist, attached, during the inspection.
6. Take the following measurements to benchmark function of the OWS:
    A. Distance from rim of access cover to bottom of structure
    B. Distance from rim of access cover to top of sludge layer
    C. Depth of sludge layer (C = A – B)

D. Distance from rim of access cover to the oil/water interface
E. Distance from rim of access cover to the top of the liquid surface
F. Depth of oil layer (F = D – E)

OWS Cleaning Procedures

Cleaning of the OWS is required when there has been a spill to the OWS that exceeds ten gallons of oil, one gallon of detergent or solvent, or any material prohibited by the owner of the sanitary sewer. Cleaning is also required when the levels of accumulated sludge and/or oil meet the manufacturer's recommended levels for cleaning. This will vary based on the manufacturer of the OWS. If the manufacturer's recommendations are unknown, the following guidelines are appropriate for determining when to clean:

1. When sludge accumulates to 25% of the wetted height of the separator compartment; or
2. When oil accumulates to 5% of the wetted height of the separator compartment; or
3. When 75% of the retention capacity of the OWS is filled.

Cleaning should be performed a minimum of once per year. When cleaning is required, it shall be performed by licensed OWS maintenance companies. Materials removed from the OWS must be disposed of in accordance with applicable state and federal regulations.

Documentation of Cleaning and Service

The operator of the premises where the OWS is located shall maintain a log describing the date and type of all inspections, service and maintenance performed in connection with the Separator. Documentation shall include the identity of the inspector (or the identity of the person or entity that performed the service and/or maintenance). Records shall also document the amount of residue removed from the OWS each time it was cleaned, and how removed materials were disposed. This documentation shall be maintained for a minimum of five years.

Attachments

1. Monthly OWS Inspection Checklist

Oil-Water Separator Inspection and Maintenance Checklist

Facility:			
Location/Address:			
Date:	**Time:**	**Weather Conditions:**	**Date of Last Inspection:**
Inspector:		**Title:**	
Rain in Last 48 Hours □ **Yes** □ **No**		**If yes, list amount and timing:**	
Pretreatment: □ **vegetated filter strip** □ **swale** □ **turf grass** □ **forebay** □ **other, specify:**			□ **none**
Site Plan or As-Built Plan Available: □ **Yes** □ **No**			

*Do not enter underground detention chambers to inspect system unless Occupational Safety & Health Administration (OSHA) regulations for confined space entry are followed.
*Follow inspection and maintenance instructions and schedules provided by system manufacturer and installer.
* Properly dispose of all wastes.

Inspection Item		Comment	Action Needed
1. PRETREATMENT			
Sediment has accumulated.	☐**Yes** ☐**No** ☐**N/A**		☐**Yes** ☐**No**
Trash and debris have accumulated.	☐**Yes** ☐**No** ☐**N/A**		☐**Yes** ☐**No**
2. INLETS			
Inlets are in poor structural condition.	☐**Yes** ☐**No** ☐**N/A**		☐**Yes** ☐**No**
Sediment, trash, or debris has accumulated and/or is blocking the inlets.	☐**Yes** ☐**No** ☐**N/A**		☐**Yes** ☐**No**
3. OIL CONTAINMENT CHAMBER			
Oil volume threshold has been reached.	☐**Yes** ☐**No** ☐**N/A**		☐**Yes** ☐**No**
Oil-absorbing pads are saturated.	☐**Yes** ☐**No** ☐**N/A**		☐**Yes** ☐**No**
4. SEDIMENT COLLECTION CHAMBER			
Sediment accumulation threshold has been reached.	☐**Yes** ☐**No** ☐**N/A**		☐**Yes** ☐**No**
Sludge accumulation threshold at bottom of chamber has been reached.	☐**Yes** ☐**No** ☐**N/A**		☐**Yes** ☐**No**
4. OTHER SYSTEM COMPONENTS			
Structural deterioration is evident.	☐**Yes** ☐**No** ☐**N/A**		☐**Yes** ☐**No**
Spills or leaks are evident.	☐**Yes** ☐**No** ☐**N/A**		
5. OUTLETS			
Outlets in poor structural condition.	☐**Yes** ☐**No** ☐**N/A**		☐**Yes** ☐**No**
Sediment, trash or debris is blocking outlets.	☐**Yes** ☐**No** ☐**N/A**		☐**Yes** ☐**No**
Erosion is occurring around outlets.	☐**Yes** ☐**No** ☐**N/A**		☐**Yes** ☐**No**
6. OTHER			
Evidence of ponding water on area draining to system.	☐**Yes** ☐**No** ☐**N/A**		☐**Yes** ☐**No**
Evidence that water is not being conveyed through the system.	☐**Yes** ☐**No** ☐**N/A**		☐**Yes** ☐**No**
Additional Notes			
Wet weather inspection needed □ **Yes** □ **No**			

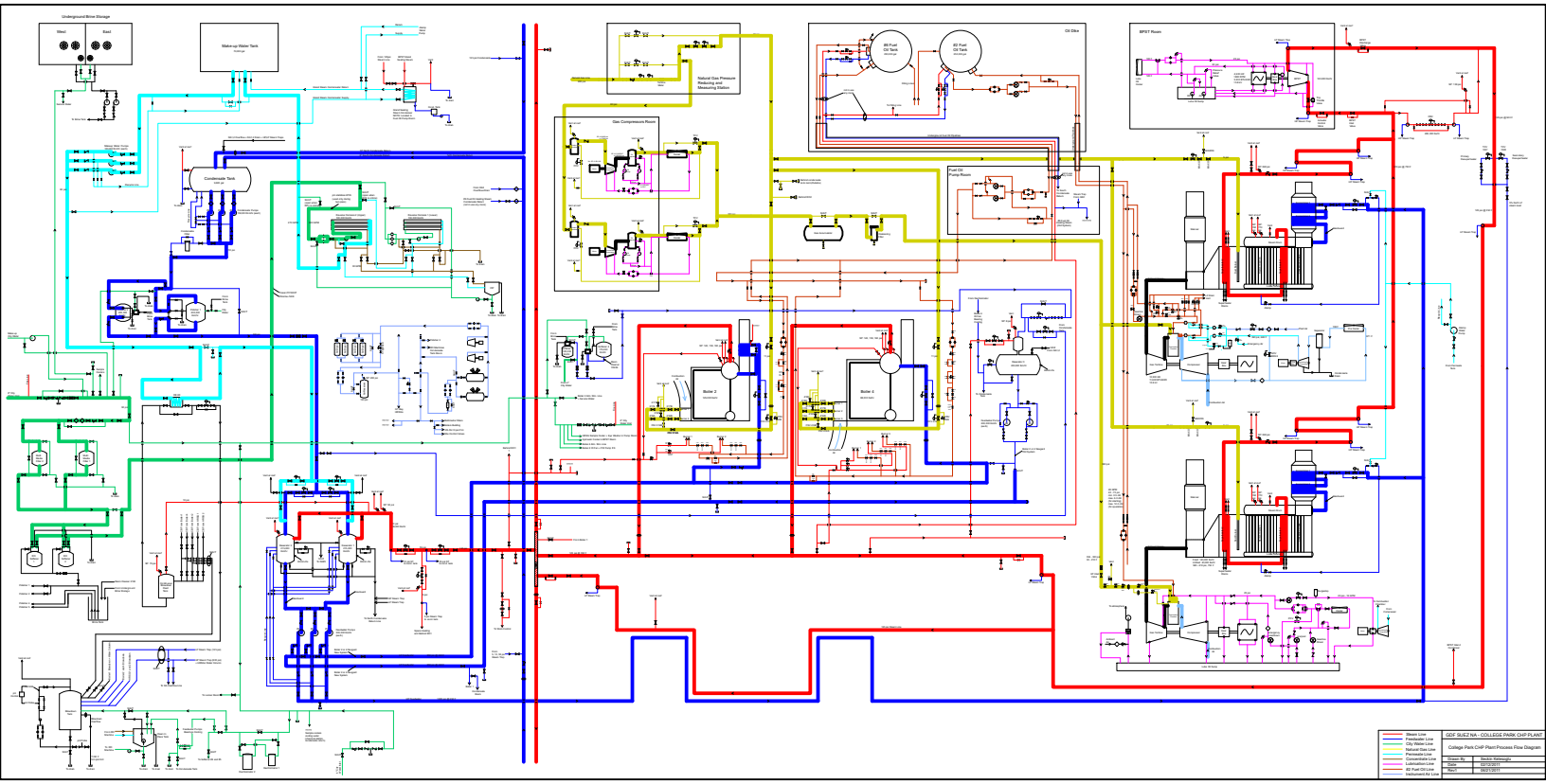
Measurements	A	Distance from rim of access cover to bottom of structure	
	B	Distance from rim of access cover to top of sludge layer	
	C = A - B	Depth of sludge layer	
	D	Distance from rim of access cover to the oil/water interface	
	E	Distance from rim of access cover to the top of the liquid surface	
	F = D - E	Depth of oil layer	

If the values for “C” and/or “F” are greater than those in the manufacturer’s recommendations, the OWS must be cleaned by a licensed OWS maintenance company.

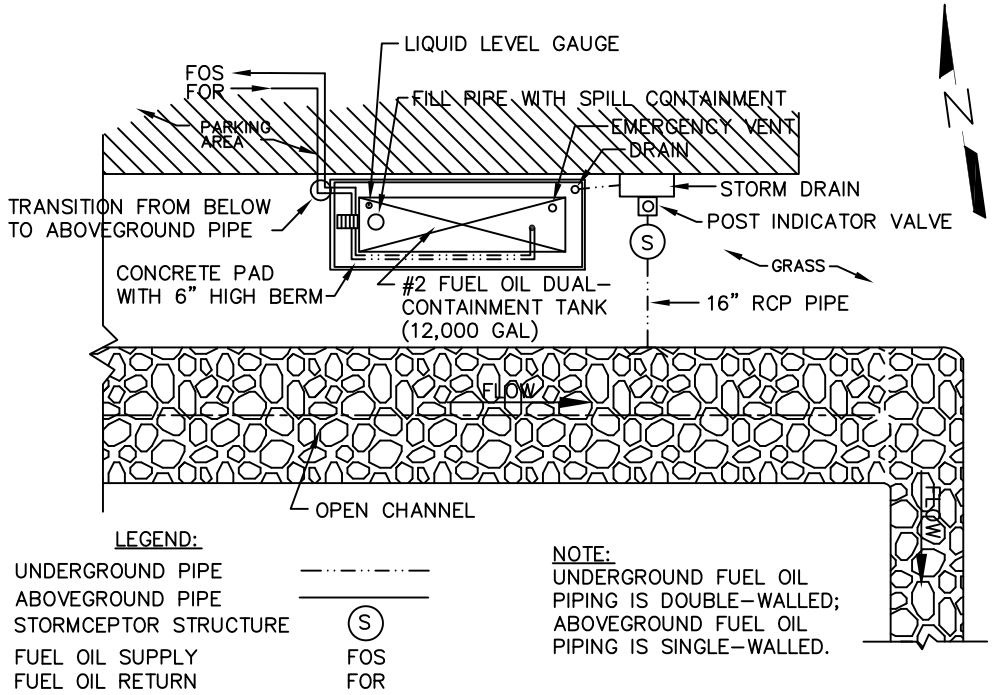
Appendix H
Engineering Drawings for Oil Associated Piping and Oil/Water Separators

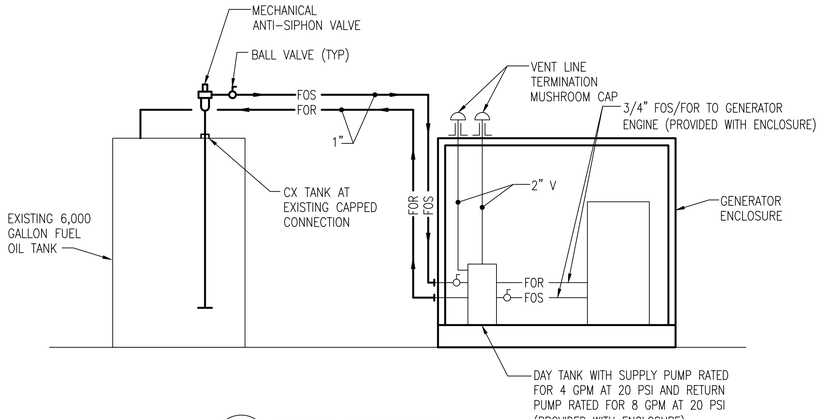
Oil Associated Piping

Piping Diagram for the CHP



Underground double-walled piping located at the Severn Building (Bldg. # 810)





2 / M1.1 RISER DIAGRAM
SCALE: NONE

RECOVERY AFTER POWER FAILURE SEQUENCE OF OPERATIONS

GENERAL:

1. THE DDC SYSTEM SHALL MONITOR THE BUILDING'S POWER SOURCE SERVING SWITCHBOARD A AND SWITCHBOARD B.

2. UPON A POWER FAILURE TO EITHER SWITCHBOARD, THE BAS SHALL DISABLE THE CONTROL SEQUENCES FOR CHILLERS ACC-796-01-01, ACC-796-01-02, AND ACC-796-01-03.

RECOVERY AFTER POWER FAILURE SERVING SWITCHBOARD "B"

3. UPON RESTORATION OF POWER FROM THE GENERATOR SERVING SWITCHBOARD B (AS DETERMINED FROM MONITORING AUTOMATIC TRANSFER SWITCH POSITION), CONFIRM POWER IS AVAILABLE (NORMAL OR EMERGENCY) AT SWITCHBOARD A. ONCE POWER IS AVAILABLE AT SWITCHBOARD A:

   a. BUILDING CHILLER ACC-796-01-03 SHALL REMAIN DISABLED.
   b. ROTATE LEAD / LAG STATUS OF PROCESS COOLING CHILLERS (ACC-796-01-01 AND ACC-796-01-02) TO BE OPPOSITE OF STATUS BEFORE UTILITY POWER OUTAGE. ENABLE EXISTING PROCESS COOLING CHILLED WATER SEQUENCE OF OPERATION WITH THE FOLLOWING MODIFICATIONS:
      i. LAG PROCESS COOLING CHILLER SHALL REMAIN DISABLED. CLOSE ASSOCIATED CHILLED WATER ISOLATION VALVE.
      ii. DELAY START OF LEAD PROCESS COOLING CHILLER FOR 60 SECONDS.
      iii. MONITOR THE GENERATOR OUTPUT THROUGH THE REMOTE GENERATOR ANNUNCIATOR PANEL LOCATED IN ROOM 1209A AND PROVIDE CURRENT LIMITING SIGNAL TO CHILLER TO PREVENT EXCEEDING THE CAPACITY OF GENERATOR.

RECOVERY AFTER POWER FAILURE SERVING SWITCHBOARD A

4. CONFIRM POWER IS AVAILABLE AT SWITCHBOARD B AND DETERMINE IF IT IS SERVED BY NORMAL OR EMERGENCY POWER (AS DETERMINED FROM MONITORING AUTOMATIC TRANSFER SWITCH POSITION).

5. IF SWITCHBOARD B IS SERVED BY GENERATOR POWER, FOLLOW THE "RECOVERY AFTER POWER FAILURE SERVING SWITCHBOARD B" SEQUENCE OF OPERATION.

6. IF SWITCHBOARD B IS SERVED BY UTILITY POWER, FOLLOW THE "RESTORATION OF NORMAL POWER SEQUENCE OF OPERATION."

RESTORATION OF NORMAL POWER

7. UPON RESTORATION OF POWER FROM THE UTILITY (AS DETERMINED FROM MONITORING AUTOMATIC TRANSFER SWITCH POSITION):

   a. ROTATE LEAD / LAG STATUS OF PROCESS COOLING CHILLERS (ACC-796-01-01 AND ACC-796-01-02) TO BE OPPOSITE OF STATUS BEFORE RESTORATION OF POWER. ENABLE EXISTING PROCESS COOLING CHILLED WATER SEQUENCE OF OPERATION.
   b. ENABLE BUILDING CHILLER ACC-796-01-03 AFTER 120 SECOND DELAY.

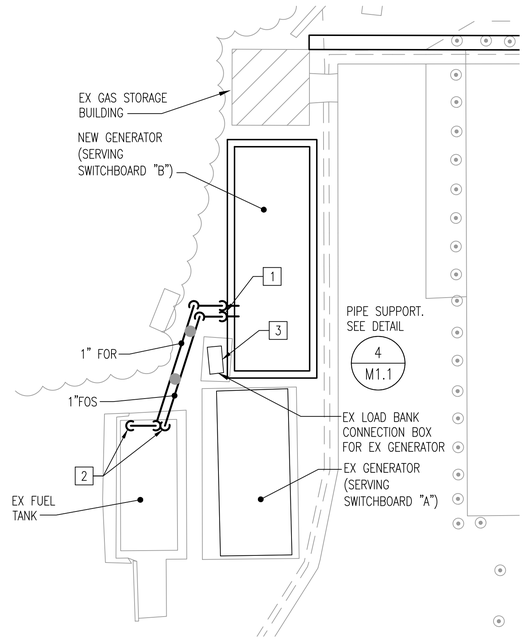
GENERATOR MONITORING SYSTEM SEQUENCE OF OPERATIONS

1. THE DDC SYSTEM SHALL MONITOR THE DAY TANK'S COMBINATION LOW FUEL / HIGH FUEL LEVEL ALARM AND LEAK DETECTOR THROUGH A MODBUS CONNECTION TO THE REMOTE GENERATOR ANNUNCIATOR PANEL LOCATED IN ROOM 1209A. ANNUNCIATE AN ALARM THROUGH THE BUILDING'S GRAPHIC USER INTERFACE WHEN ALARMS ARE ACTIVATED.

BMS SYSTEM CONTROLLER									
POINT I.D. #	POINT DESCRIPTION	AI	AO	DI	DO	ALARM			NOTES
						HI/LOW	MAINT.	FAILURE	
1	ACC796-01-0-1, CHILLER ENABLE (EX POINT)				X				1
2	ACC-796-01-02, CHILLER ENABLE (EX POINT)				X				1
3	ACC-796-01-03, CHILLER ENABLE (EX POINT)				X				1
4	ACC-796-01-02, CHILLER CURRENT LIMITING		X						1
5	ACC-796-01-03, CHILLER CURRENT LIMITING		X						1
6	AUTOMATIC TRANSFER SWITCH POSITION			X					1
7	REMOTE GENERATOR ANNUNCIATOR PANEL								1,2

NOTES: 1. MONITIORED THROUGH MODBUS CONNECTION.
2. REFER TO ELECTRICAL DRAWINGS FOR EQUIPMENT LOCATIONS.

5 / M1.1 BUILDING CONTROL MODIFICATIONS
SCALE: NONE



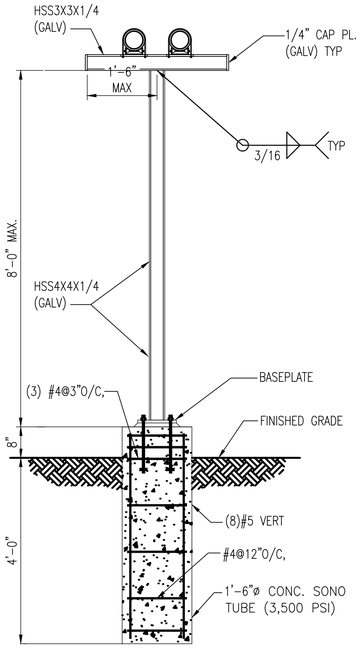
1 / M1.1 GENERATOR SITE PLAN - NEW WORK
SCALE: 1" = 10'

SPECIFIC NOTES

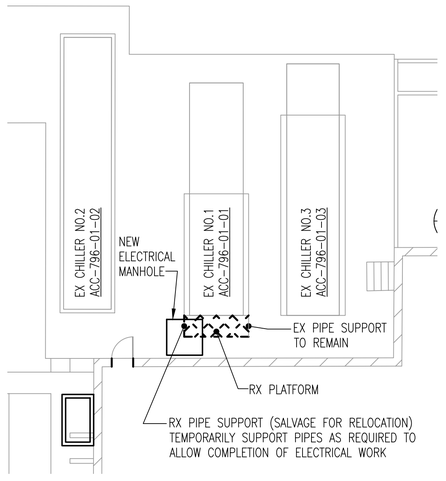
1. 1" FOS & FOR DN. EXTEND TO DAY TANK LOCATED IN GENERATOR ENCLOSURE. COORDINATE LOCATION WITH GENERATOR MANUFACTURER.
2. CONNECT TO EX TANK THROUGH EX UNUSED 4" TANK CONNECTION.
3. EXISTING LOAD BANK CONNECTION CABINET WILL BE REMOVED UNDER SEPARATE CONTRACT PRIOR TO THIS CONTRACT.

ABBREVIATIONS

ACC	AIR COOLED CHILLER
AI	ANALOG INPUT
AO	ANALOG OUTPUT
CONC	CONCRETE
CX	CONNECT TO EXISTING
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
EX	EXISTING
FOR	FUEL-OIL RETURN
FOS	FUEL-OIL SUPPLY
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
HSS	HOLLOW STRUCTURAL SECTION
MAX	MAXIMUM
OC	ON CENTER
PSI	POUNDS PER SQUARE INCH
PL	PLATE
RX	REMOVE EXISTING
TYP	TYPICAL



4 / M1.1 TYPICAL PIPE SUPPORT DETAIL
SCALE: NONE



3 / M1.1 CHILLER AREA SITE PLAN - DEMOLITION
SCALE: 1" = 10'

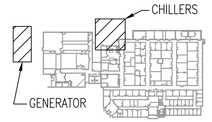
REVISIONS		
	ISSUED FOR BID	7/12/18

UNIVERSITY OF MARYLAND 18 56
COLLEGE PARK
MARYLAND

LPS ELECTRICAL UPGRADE - SWITCHBOARD B

BLDG: LABORATORY OF PHYSICAL SCIENCE
BLDG NO.: 796
UMD PROJECT NO.: 15-667-765

KEY PLAN



GRAPHIC SCALES

0 5' 10' 20'
SCALE: 1" = 10'

SIGNATURE

REGISTERED PROFESSIONAL ENGINEER 20215 STATE OF MARYLAND GREGORY GREGORIS

PROFESSIONAL CERTIFICATION.
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 20215
EXPIRATION DATE: 10/12/2019
SIGNATURE:

WRA
Whitman, Requardt & Associates, LLP
801 South Caroline Street, Baltimore, Maryland 21231

MECH SITE PLAN & CONTROLS - NEW WORK & DEMOLITION

Drawing No.

M1.1

Scale: 1" = 10'		
Date: 7/12/2018	Sheet 14 of 22	
Des: GGG	Drawn: PBF	Check: GGG

Oil/Water Separators

Highland Tank

Highland Manufacturing Locations

One Highland Road
Stoystown, PA 15563-0338
(814) 893-5701
FAX 893-6126

2225 Chestnut Street
Lebanon, PA 17042
(717) 664-0602
FAX 664-0631

99 West Elizabethtown Road
Manheim, PA 17545-9410
(717) 664-0600
FAX 664-0617

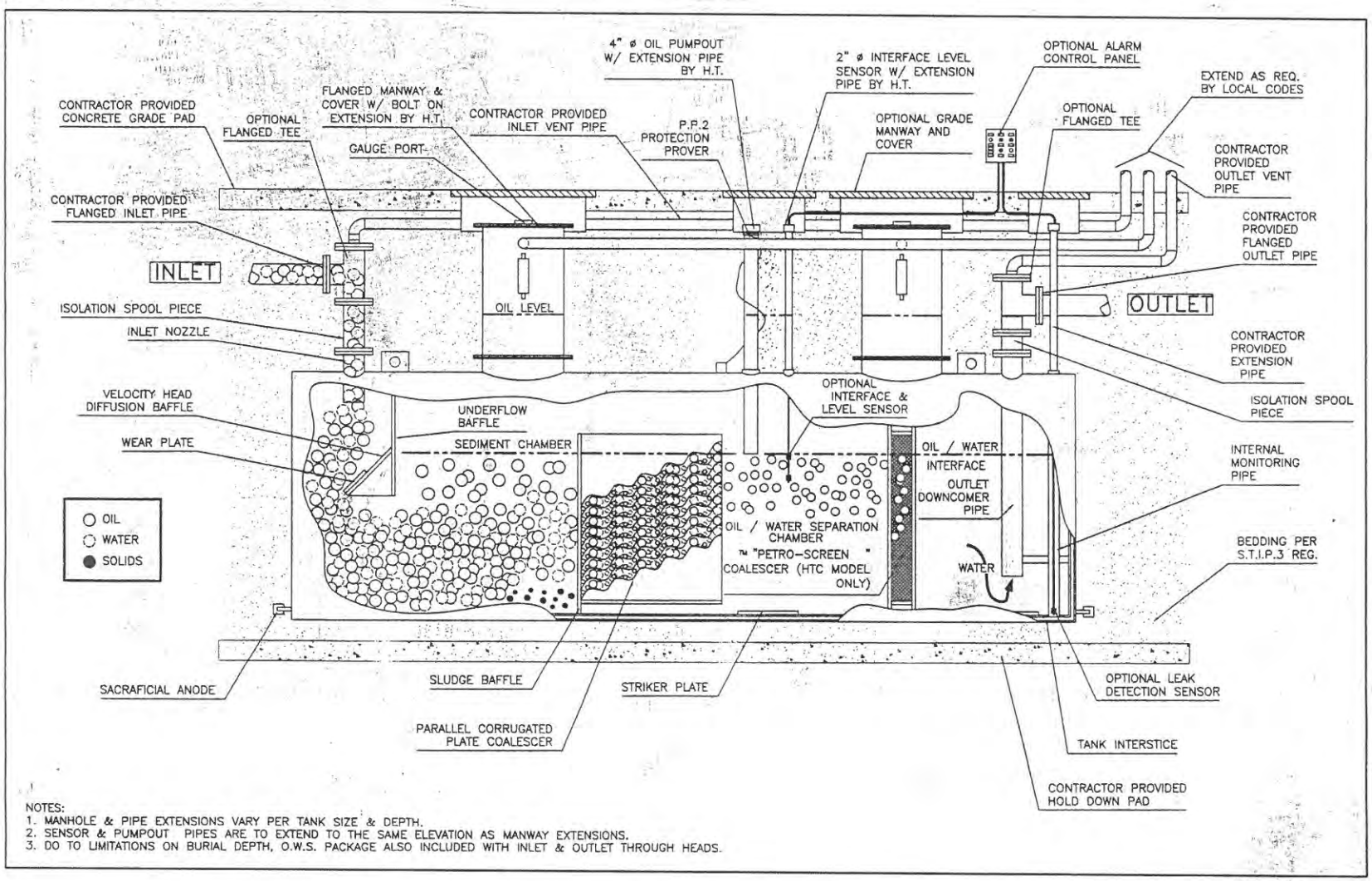
2700 Petterson Street
Greensboro, NC 27407
(336) 218-0801
FAX 218-1292

958 19th Street
Watervliet, NY 12189
(518) 273-0801
FAX 273-1365

354 Route 108
Somersworth, NH 03878
(603) 692-2012
FAX 692-2014

Please visit us at www.highlandtank.com

OWS Reference Drawing

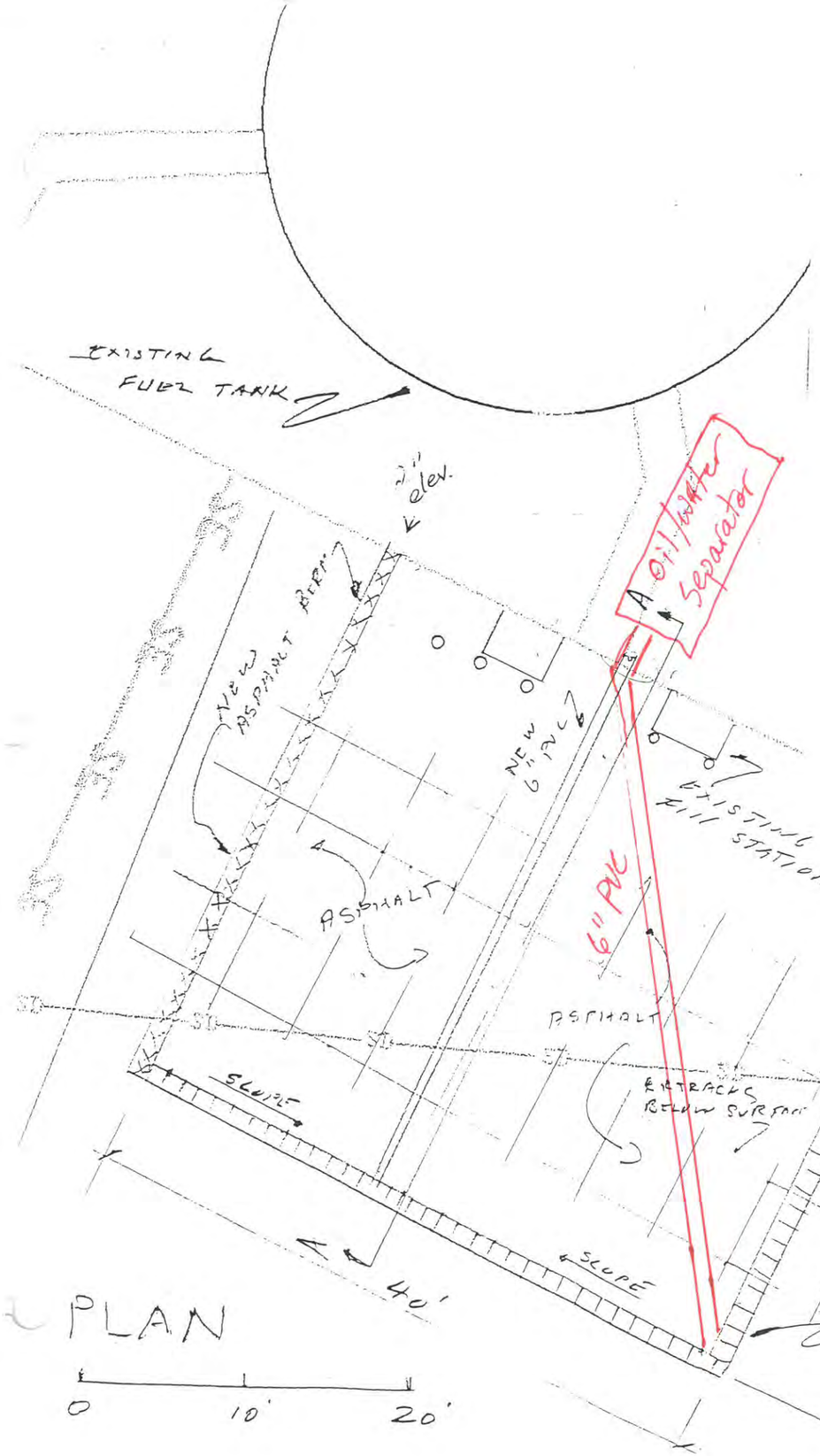


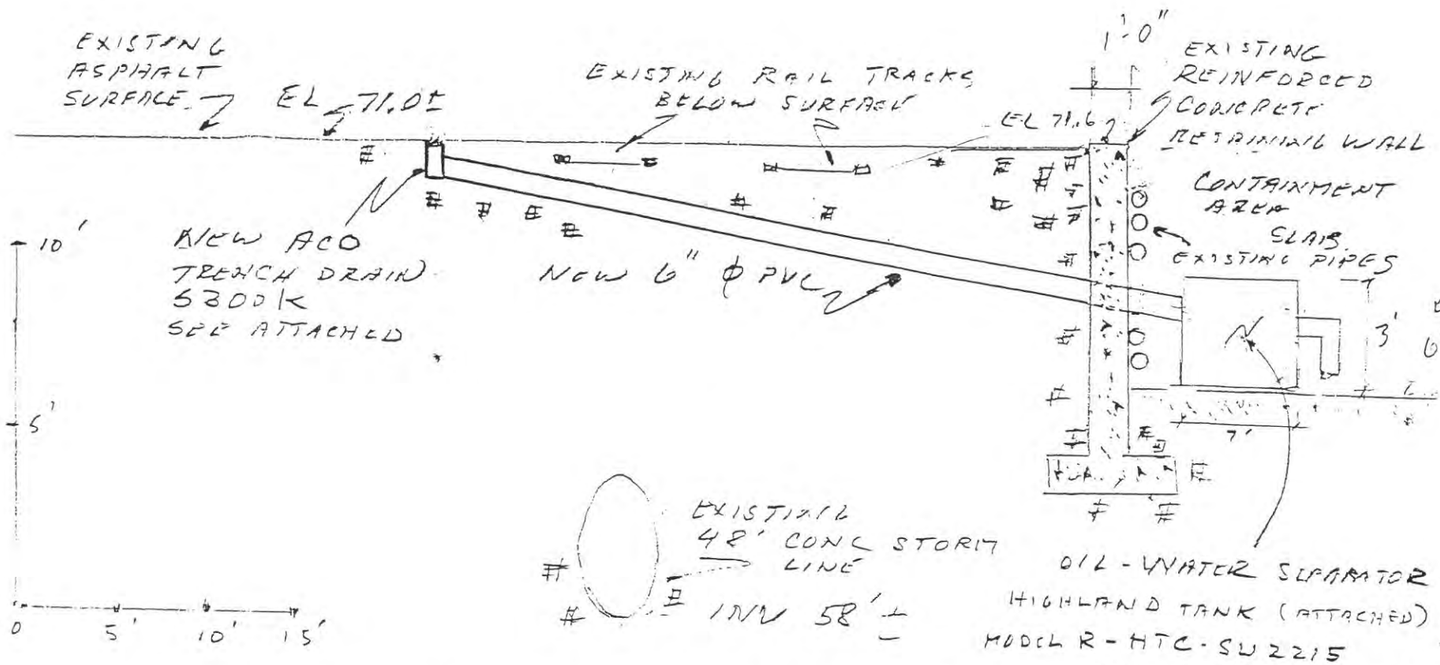
NOTES:
1. MANHOLE & PIPE EXTENSIONS VARY PER TANK SIZE & DEPTH.
2. SENSOR & PUMPOUT PIPES ARE TO EXTEND TO THE SAME ELEVATION AS MANWAY EXTENSIONS.
3. DO TO LIMITATIONS ON BURIAL DEPTH, O.W.S. PACKAGE ALSO INCLUDED WITH INLET & OUTLET THROUGH HEADS.

QC8052

NEW SPILL CONTAINMENT
OIL TRUCK DELIVERY AREA
PARKING LOT K-2
UNIV OF MD COLLEGE PARK

J. COFFEY
X5-2462
20 MAY 03





ELEVATION SECTION 17-A

Building 006 Fuel Area Dike OWS

ACO drain

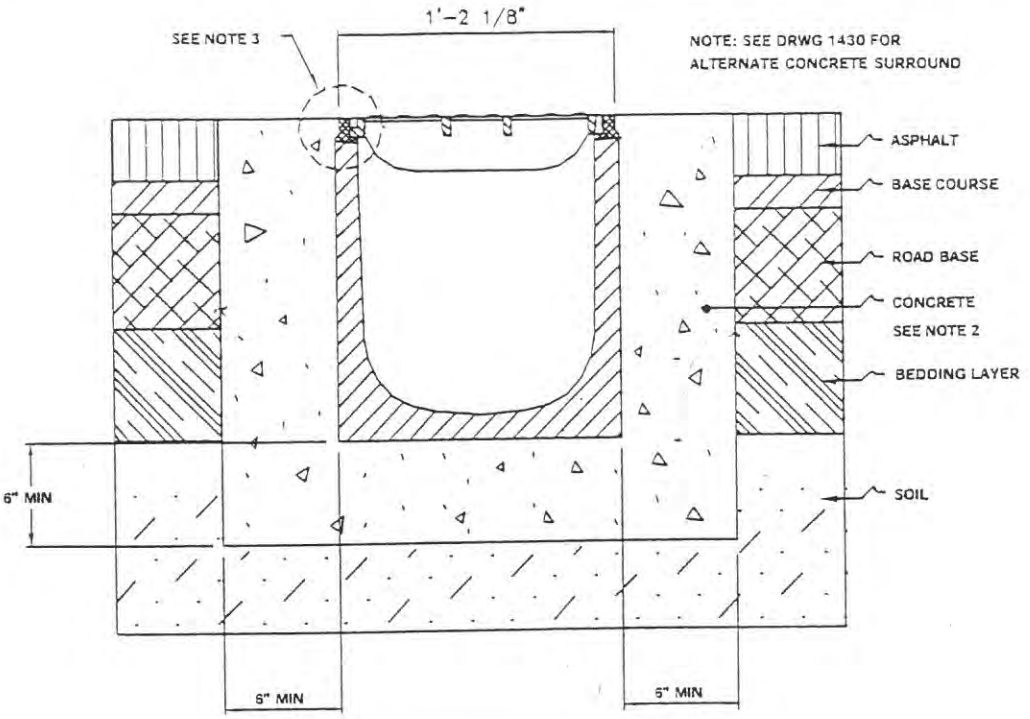
DRWG# 1514 Date: 02.25.02

WWW.ACOUSA.COM

INSTALLATION DRAWING

S300K: Load Class E: Asphalt

ACO Polymer Products Inc.
P.O. Box 245
Chardon, OH 44024
PH: 440-285-7000
FX: 440-285-8517
e-mail: sales@acousa.com



NOTES:
1. It is necessary to ensure the minimum dimensions shown are suitable for the existing ground conditions. *Engineering advice may be required.*
2. A minimum concrete strength of 3000 PSI is recommended. The concrete should be vibrated to eliminate air pockets.
3. The finished level of the concrete surround must be approx. 1/8" above the top of the channel edge.
4. Refer to ACO'S latest installation instructions for complete details.

ACO drain

DRWG# 1514 Date: 02.25.02

WWW.ACOUSA.COM

SPECIFICATION CLAUSE

S300K Trench Drain System

ACO Polymer Products Inc.
P.O. Box 245
Chardon, OH 44024
PH: 440-285-7000
FX: 440-285-8517
e-mail: sales@acousa.com

The surface drainage system shall be polymer concrete S300K channel system with ductile iron rail and grate as manufactured by ACO Polymer Products, Inc., Chardon, Oh.

Channels will be manufactured from polyester resin polymer concrete with an integrally cast in ductile iron rail and supplied with ductile iron grates.

The system shall be 12 inches (300mm) nominal inside width with a 14.1 in. (360mm) overall width and a built-in slope of 0.6 %. All channels shall be interlocking with a male/female join. Each channel shall have preformed 6 in. (171mm) and 8 in. (218mm) schedule 40 drill-out on the bottom for vertical connection with underground piping.

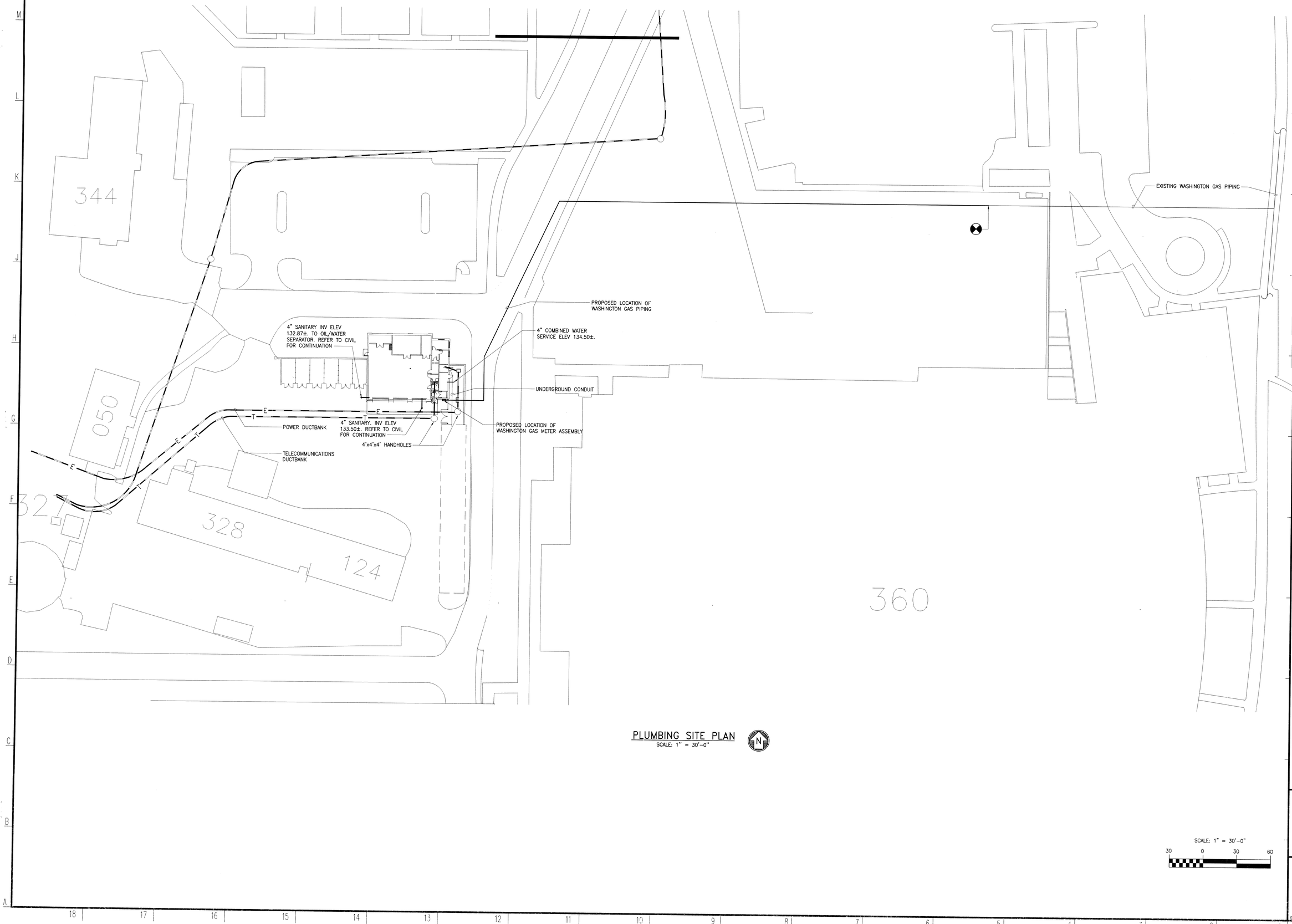
The complete drainage system shall be by ACO Polymer Products, Inc. Any deviation or partial system design and/or improper installation will void any and all warranties provided by ACO Polymer Products, Inc.

The channel sytem shall be independantly certified to withstand loadings to load class F (DIN19580). Grates shall be secured using 'Powerlok' Boltless locking system. Grate and Locking system shall be fully removable from channel.

Polymer Concrete shall have material properties of: compressive strength range between 14,000-14,500 psi; flexural strength between 3600-4500 psi; tensile strength of 1500 psi. The material water absorption rate shall not exceed 0.1 % by weight and shall be resistant to prolonged salt exposure, repetitive frost cycles and chemically resistant to dilute acids and alkalis.

The system shall be installed in accordance with the manufacturer's instructions and recommendations.

Wye Oak Building (428)



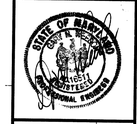
PLUMBING SITE PLAN
SCALE: 1" = 30'-0"

SCALE: 1" = 30'-0"
30 0 30 60

Gipe Associates Inc.
Consulting Engineers
Baltimore, Maryland
Easton, Maryland

W.O.# 07035L

STAMPED SET



11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel 301.595.1000
Fax 301.595.0089

1955 Beverly Road
Suite 105
McLean, VA 22101
Tel 703.903.9100
Fax 703.903.9755

GRIMM + PARKER ARCHITECTS

GP# 21030

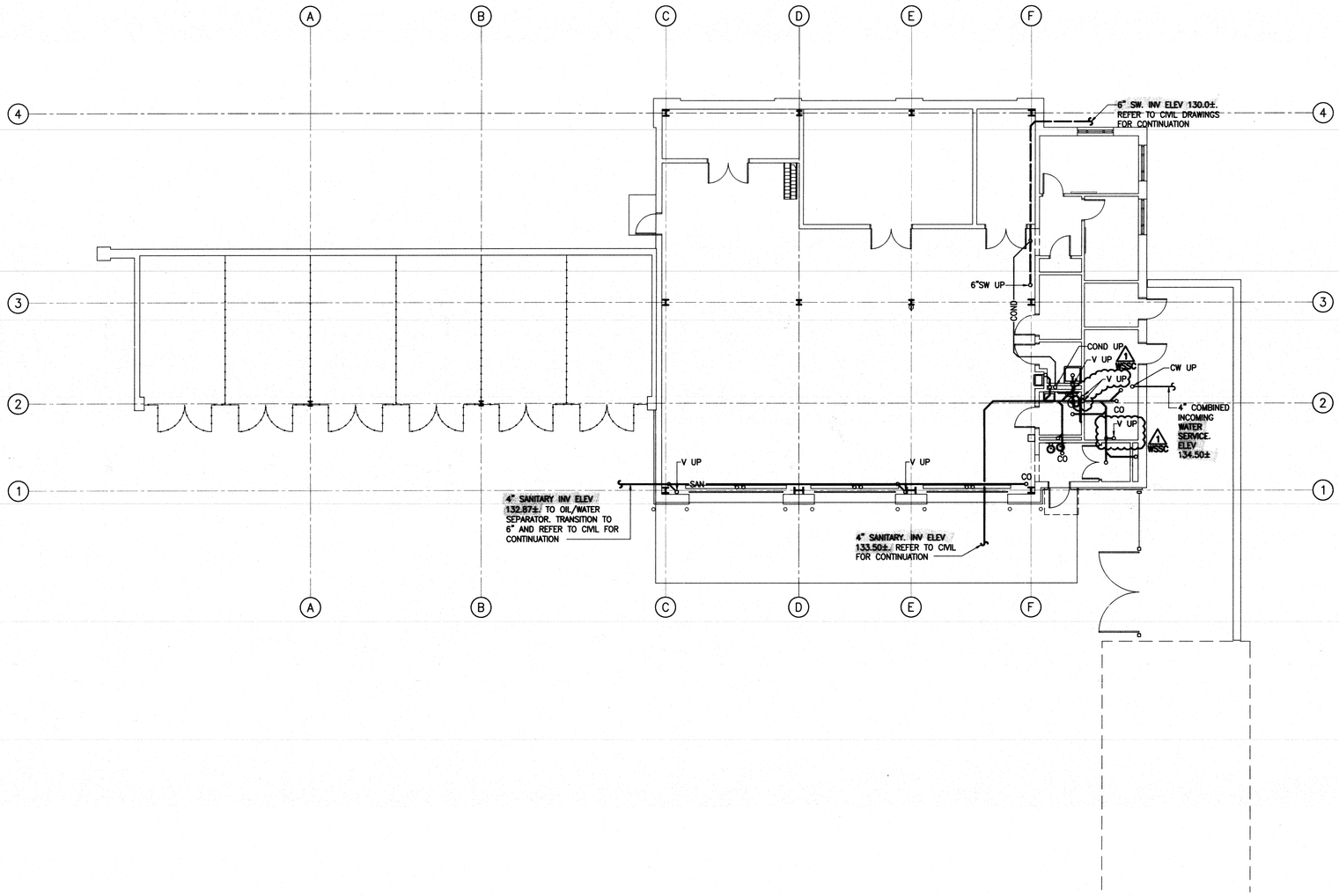
PLUMBING SITE PLAN

UNIVERSITY OF MARYLAND BLS BUILDING
COLLEGE PARK, MARYLAND

PS-01

2/18/2011
BID SET

Wye Oak Building (428)



PLUMBING FOUNDATION PLAN
SCALE: 1/8" = 1'-0"
F.F. ELEV 137.5

SCALE: 1/8" = 1'-0"
8 0 8 16

Gipe Associates Inc.
Consulting Engineers
Baltimore, Maryland
Easton, Maryland

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel 301.595.1000
Fax 301.595.0089

1355 Beverly Road
Suite 250
McLean, VA 22101
Tel 703.903.9100
Fax 703.903.9715

GRIMM + PARKER ARCHITECTS

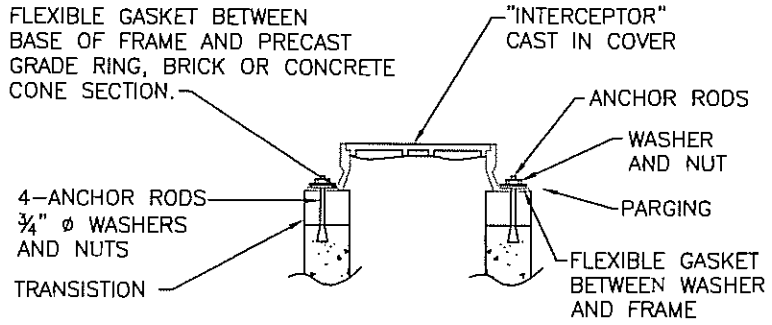
W.O.# 07035L

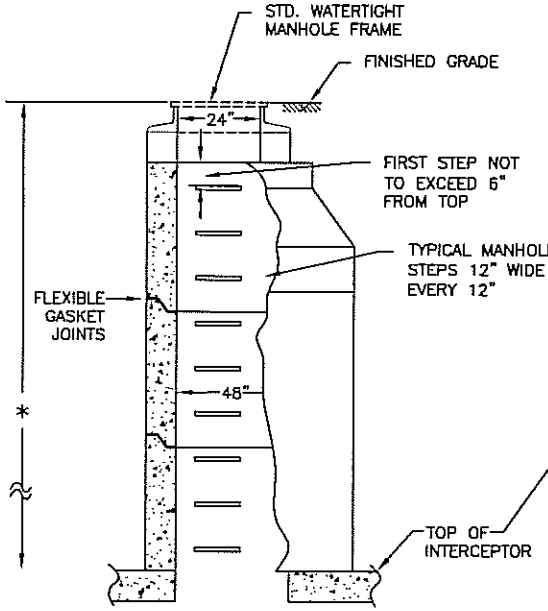
GP# 21030

PLUMBING FOUNDATION PLAN
UNIVERSITY OF MARYLAND BLS BUILDING
COLLEGE PARK, MARYLAND

P-2.0

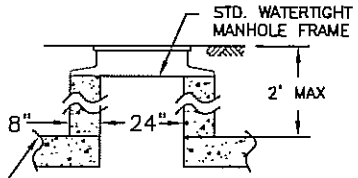
2/18/2011
BID SET





MANHOLE FOR DEPTHS OVER 2 FEET.

SCALE: NTS



MANHOLE FOR SHALLOW DEPTH INTERCEPTOR

SCALE: NTS

* TOTAL DEPTH FROM BOTTOM OF INTERCEPTOR TO PUMP TRUCK STAGGING ELEVATION NOT TO EXCEED 20 FEET.

GREASE OR SAND/OIL INTERCEPTOR

- TANKS AND MANHOLES IN TRAFFIC-BEARING LOCATIONS SHALL MEET OR EXCEED H20 (SHA) LOADING DESIGN.
- 6" INCHES OF BEDDING AND THE BACKFILL ALL SIDES (UP TO TOP OF TANK), SHALL BE MD#6 OR SMALLER AGGREGATE.
- BAFFLES SHALL BE 16 GAUGE (.059 INCH) OR HEAVIER, TYPE 302 OR 304 STAINLESS STEEL.
- BAFFLE TRACKS SHALL BE ¼" OR 1" STAINLESS STEAL OR ALUMINUM, TRACK ANCHORS SHALL BE WELDED TO BACK OF TRACK ANCHOR IN THE WALL CASING.
- MANHOLE COVERS SHALL HAVE THE WORD "INTERCEPTOR" CAST IN

MODIFICATIONS FOR UNTRAPPED GARAGE DRAINS

- MANUFACTURER SHALL NOT INSTALL AN INLET BAFFLE.
- PLUMBER SHALL INSTALL INLET PIPE AS SHOWN ON DETAIL.
- THE TANK MUST BE VENTED AS SHOWN ON DETAIL.

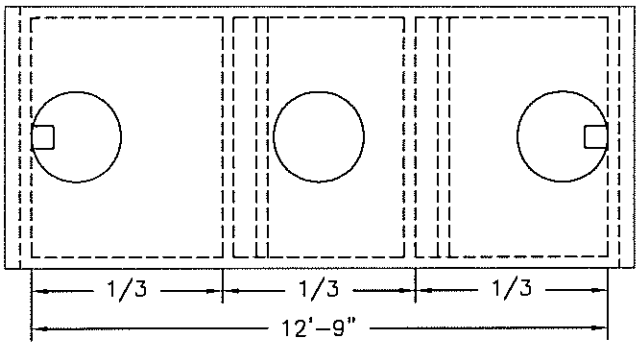
APPROVED
REGULATORY SERVICES

DATE: 9-9-08
SHEET NO. 2
OF 2

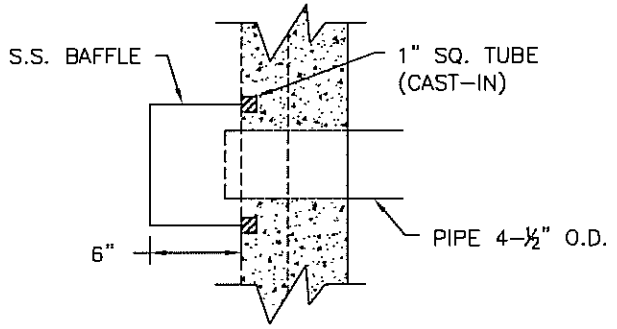
CONCRETE INTERCEPTOR DETAILS AND SPECIFICATIONS

REGULATORY SERVICES GROUP

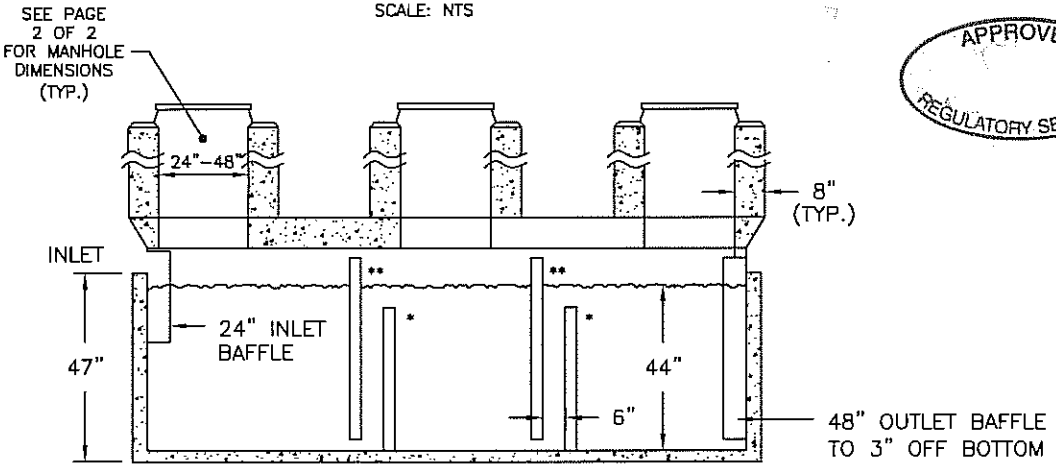
WASHINGTON SUBURBAN SANITARY COMMISSION



PLAN
SCALE: NTS

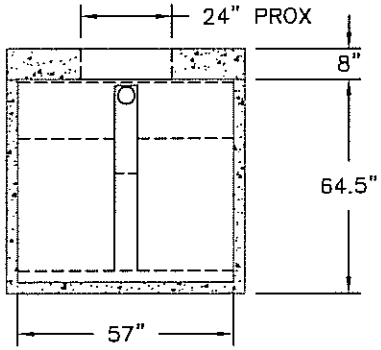


BAFFLE DETAIL
SCALE: NTS



ELEVATION
SCALE: NTS

APPROVED
REGULATORY SERVICES



CROSS SECTION
SCALE: NTS

* RAISED BAFFLE WALLS, 3" OFF BOTTOM, ½"-1" FROM TOP.
** LOWER BAFFLE WALLS SHALL BE STRUCTUAL CONCRETE ONLY. TERMINATE 6" BELOW LIQUID LEVEL.

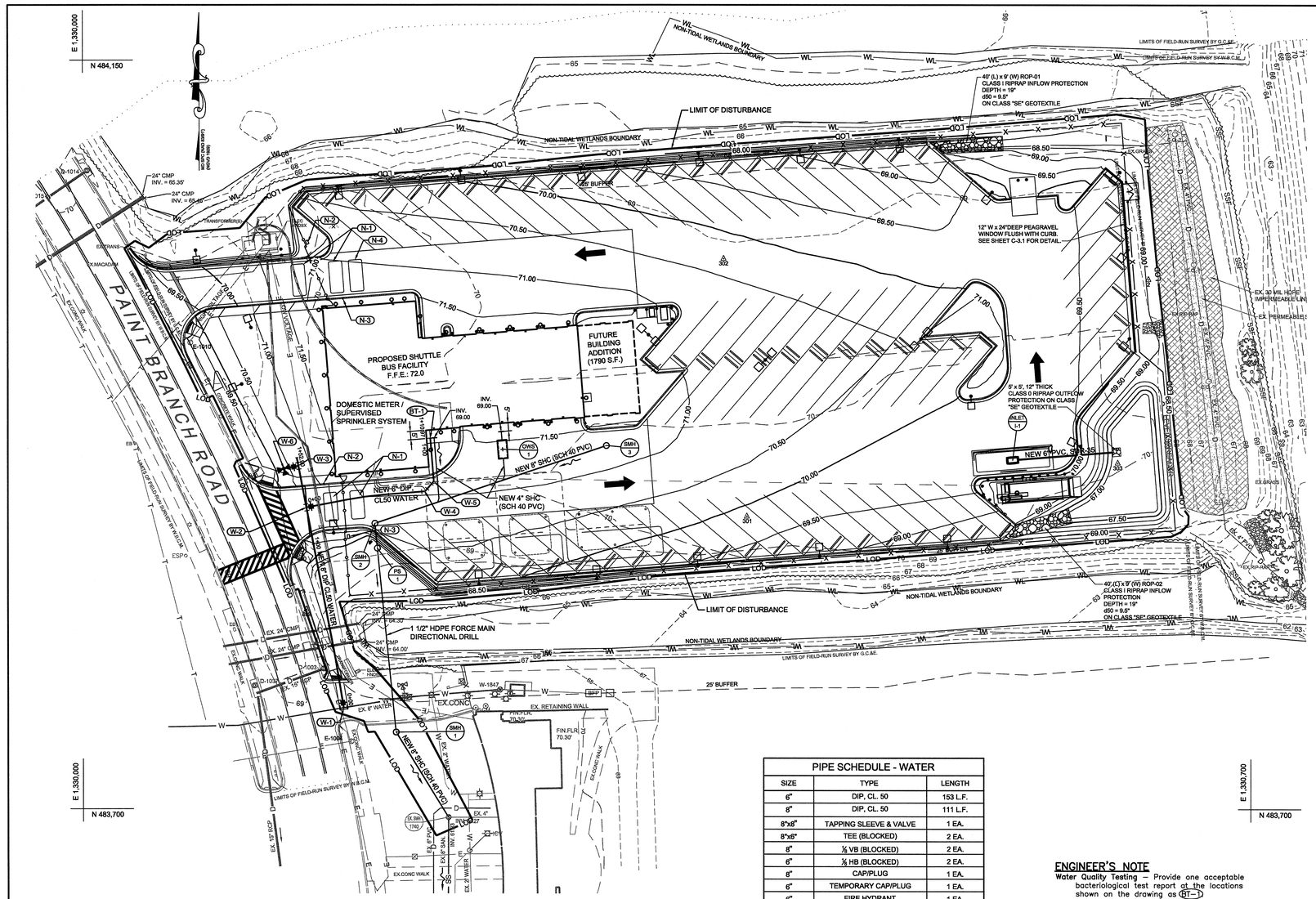
DATE: 9-9-08
SHEET NO. 1 OF 2

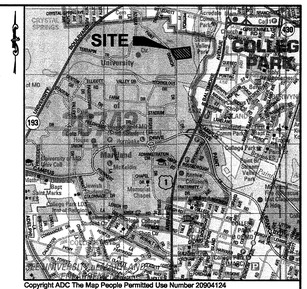
1600 GALLON CONCRETE INTERCEPTOR GREASE OR SAND/OIL

REGULATORY SERVICES GROUP

WASHINGTON SUBURBAN SANITARY COMMISSION

Shuttle Bus Facility (#424)





VICINITY MAP

SCALE: 1"=2000'
MONTGOMERY CO. ADC MAP- 5409-K1 & 5410-A1
WSSC - SHEET: -

SANITARY STRUCTURE SCHEDULE

NO.	DESCRIPTION	NORTHING	EASTING
SMH-1	WSSC STD. DET. S-1.0	483746.03	1330187.78
PS-1	SEE DETAIL PS-1 SHEET C-4.3	483856.55	1330176.64
SMH-2	WSSC STD. DET. S-1.0	483871.47	1330175.14
SMH-3	SEE DETAIL SMH-3 SHEET C-4.3	483918.21	1330313.91
OWS-1	SEE DETAIL OWS-1 SHEET C-4.3	483915.95	1330251.81

SEE SANITARY PROFILE FOR TOP OF RIM AND INVERT ELEVATIONS.

WATER STRUCTURE SCHEDULE

NO.	DESCRIPTION	NORTHING	EASTING
W-1	8" TAPPING SLEEVE, VALVE & VAULT WSSC STD, DET. B-1.3	483760.64	1330156.35
W-2	8"x6" TEE, VALVE & VAULT BUTTRESS WSSC STD. DET. B-1.3	483881.01	1330133.99
W-3	8"x6" TEE & BUTTRESS WSSC STD. DET. B-1.3	483906.02	1330129.18
W-4	6" 1/8 HORIZ. BEND & BUTTRESS WSSC STD. DET. B-1.0	483890.66	1330205.26
W-5	6" 1/8 HORIZ. BEND & BUTTRESS WSSC STD. DET. B-1.0	483896.75	1330210.44
W-6	6" FIRE HYDRANT WSSC STD. DET. W-8.1	483904.36	1330120.52

SEE WATER PROFILE FOR INVERT ELEVATIONS.

SEWAGE FLOW TABULATION

No. of Units	TYPE	FLOW FACTOR (GPD/unit)	SEWAGE FLOW (GPD)
6088 SF	OFFICE	0.093	564
4138 SF	MAINT BAY (BUS REPAIR)	0.014	58
FUT. 1790 SF	WASH BAY	4.9	8,771
12 BUSES @ 50 gal.	BUS SEPTAGE	-	600
	TOTAL SEWAGE FLOW =		9993 GPD

NOTE: BUS FACILITY OPERATES 24 hrs/day 7 DAYS A WEEK
FOR GRINDER PS DESIGN USE: 9993 GPD / 24 hrs x 60 min.
9993 GPD / 1440 MIN. = 6.9 GPM USE 7.0 GPM
USE PEAKING FACTOR 4.0 DESIGN FLOW = 28 GPM

PIPE SCHEDULE - WATER

SIZE	TYPE	LENGTH
6"	DIP, CL. 50	153 L.F.
8"	DIP, CL. 50	111 L.F.
8"x8"	TAPPING SLEEVE & VALVE	1 EA.
8"x6"	TEE (BLOCKED)	2 EA.
8"	⅛ VB (BLOCKED)	2 EA.
6"	⅛ HB (BLOCKED)	2 EA.
8"	CAP/PLUG	1 EA.
6"	TEMPORARY CAP/PLUG	1 EA.
6"	FIRE HYDRANT	1 EA.

PIPE SCHEDULE - SEWER

SIZE	TYPE	LENGTH
8"	PVC SCH. 40	206 L.F.
4"	PVC SCH. 40	20 L.F.
1½"	HDPE	111 L.F.
48" ID	MANHOLE	2 EA.
48" ID	SEPTAGE RECEIVING MANHOLE	1 EA.
48"IDx60"OD	GRINDER PUMPING STAION	1 EA.
2094 GAL.	OIL / WATER SEPARATOR	1 EA.

CONSTRUCTION NOTES:

KEY	DESCRIPTION	DETAIL NO.	SHEET NO.
N-1	NEW SLIDE LOOP LAYOUT	--	C-5.3
N-2	NEW GOOSENECK PEDESTAL-MOUNTED TELEPHONE LINK	--	C-5.3
N-3	NEW SLIDE GATE OPERATOR BOX	--	C-5.3
N-4	NEW FREE EXIT LOOP LAYOUT	--	C-5.3

BLOCKING NOTES:

1. FIRE HYDRANTS MARKED THUS (R) TO BE RESTRAINED PER WSSC STANDARD DETAIL B/2.1 & B/2.7. DO NOT BLOCK FH OR FH TEE.
2. BLOCK HORIZONTAL BENDS PER WSSC STANDARD DETAILS B/1.0 & B/1.3.
3. RESTRAINED JOINTS FROM PIPE STATION 0+00 TO STATION 1+52.90.

ENGINEER'S NOTE

Water Quality Testing – Provide one acceptable bacteriological test report at the locations shown on the drawing as (BT-1)

REFERENCE NOTE:

1. FOR WSSC STANDARD DETAILS NOTED, SEE SHEET C-4.4.
2. FOR HYDRAULIC INFORMATION SHEET (HIS), SEE SHEET C-4.4.
3. FOR GENERAL SITE UTILITY WATER & SEWER NOTES, SEE SHEET C-4.4

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30' ft.

SEDIMENT CONTROL NOTES

ALL UTILITY INSTALLATION MUST BE IN CONFORMANCE WITH THE CONDITIONS OF THE SOIL CONSERVATION DISTRICT/COUNTY/MDE APPROVED SEDIMENT CONTROL PLAN (MDE #10-SF-0002), APPROVAL DATE (XX/XX/XX), AND WITH ALL EROSION AND SEDIMENT CONTROL MEASURES CONTAINED WITHIN THIS PLAN. THE APPLICANT IS REQUIRED TO NOTIFY THE WSSC SEDIMENT CONTROL INSPECTOR OF ANY CHANGES AND MODIFICATIONS TO THE SCD/COUNTY/MDE APPROVED SEDIMENT CONTROL PLAN.

48 HOURS ADVANCED NOTICE IS REQUIRED PRIOR TO UTILITY CONSTRUCTION AT 301-206-8077.

ZONE

HHG =
LHG =

AVERAGE SEWAGE FLOW = 9993 GPD

WBCM ARCHITECTURE ENGINEERING CONSTRUCTION
WHITNEY BAILEY COX & MAGNANI, LLC
849 Fairmount Ave. Suite 100 Baltimore, MD 21286
MAIN 410.512.4500 FAX 410.324.4100
www.wbcm.com

UNIVERSITY OF MARYLAND COLLEGE PARK
COLLEGE PARK, MD 20742
WATER AND SEWER SERVICE CONNECTION

C-4.1
1 OF 4

10-27-10

SHEET NO. - OF

ONSITE WATER & SEWER PLAN

ONSITE #

OWNER/APPLICANT	ENGINEER
UNIVERSITY OF MARYLAND COLLEGE PARK SRVC BLDG. 0600 GREENHOUSE RD. COLLEGE PARK, MD 20742 PHONE NO. 301-405-7506 P.O.C. BRIAN STILL bstill@FM.UMD.EDU	WBCM, LLC 849 FAIRMOUNT AVE., SUITE 100 BALTIMORE, MD 21286 PHONE NO. 410-512-4500 P.O.C. PHILIP DER, PE PDER@WBCM.COM

MDE # 11-SF-0002

P:\2005\05009828\Drawings\07 Site\UTILITY.dwg Oct 27, 2010 - 1:38pm Plot By: hhwang

WBCM ARCHITECTURE ENGINEERING CONSTRUCTION
WHITNEY BAILEY COX & MAGNANI, LLC
849 Fairmount Ave. Suite 100 Baltimore, MD 21286
MAIN 410.512.4500 FAX 410.324.4100
www.wbcm.com

GRIMM + PARKER ARCHITECTS

1720 Belmille Drive Suite 600 Calverton, MD 20705
1355 Beverly Road Suite 105 McLean, VA 22101
Tel 301.595.1000 Fax 301.595.0089
Tel 703.903.9100 Fax 703.903.9755

GP# 21008

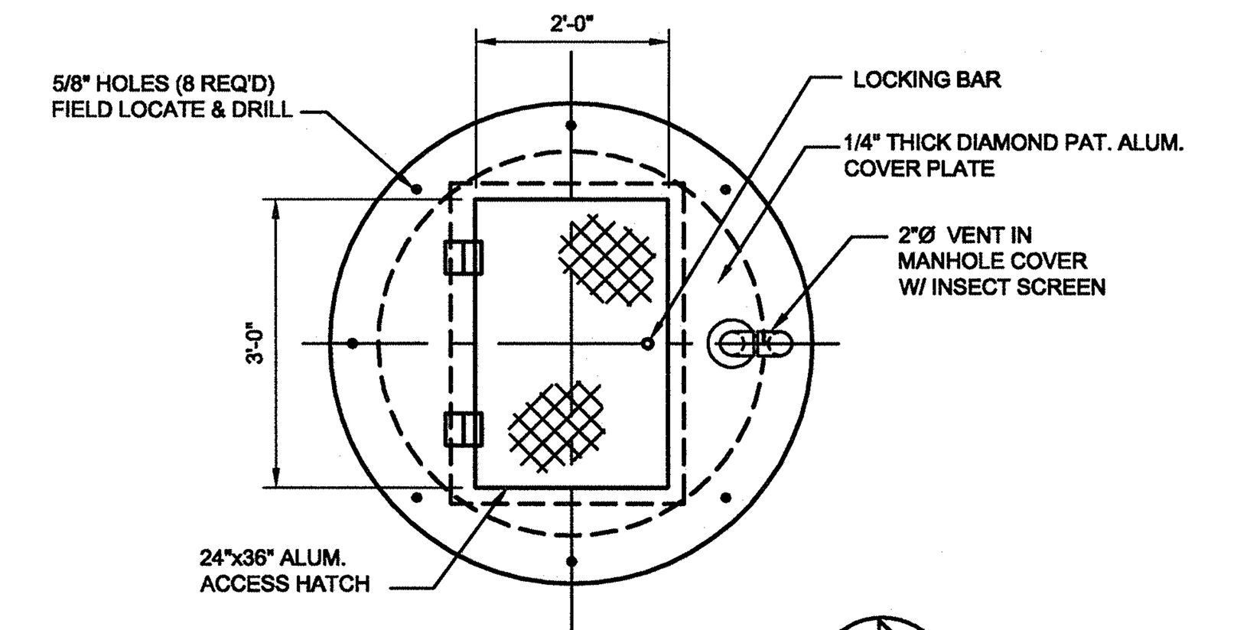
UTILITY PLAN
LOT 4: SHUTTLE FACILITY
UNIVERSITY OF MARYLAND COLLEGE PARK

DATE	DESCRIPTION
5/21/10	DD SUBMISSION
7/28/10	65% CD SUBMISSION
9/29/10	95% CD SUBMISSION

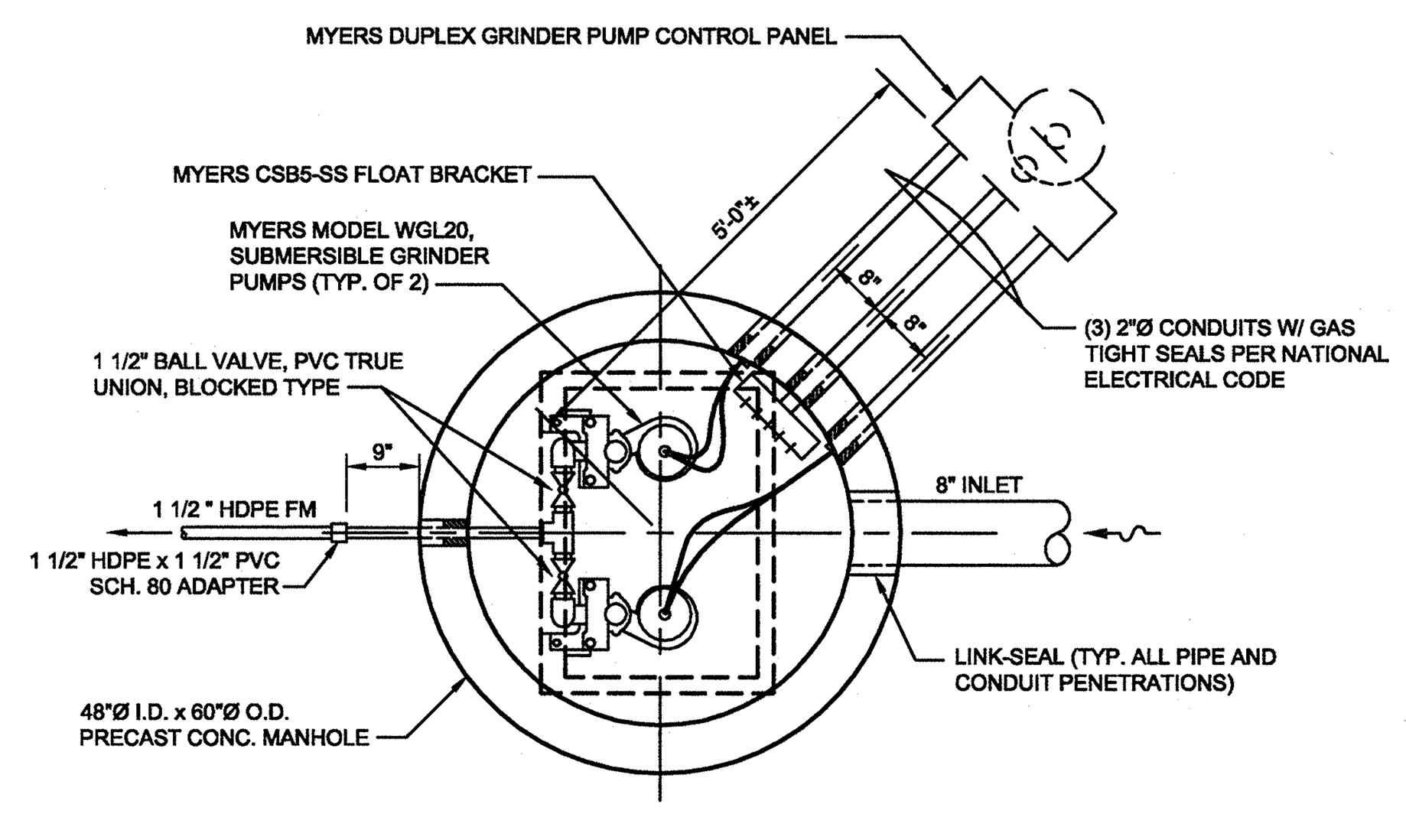
C-4.1

10/29/10
BID SET

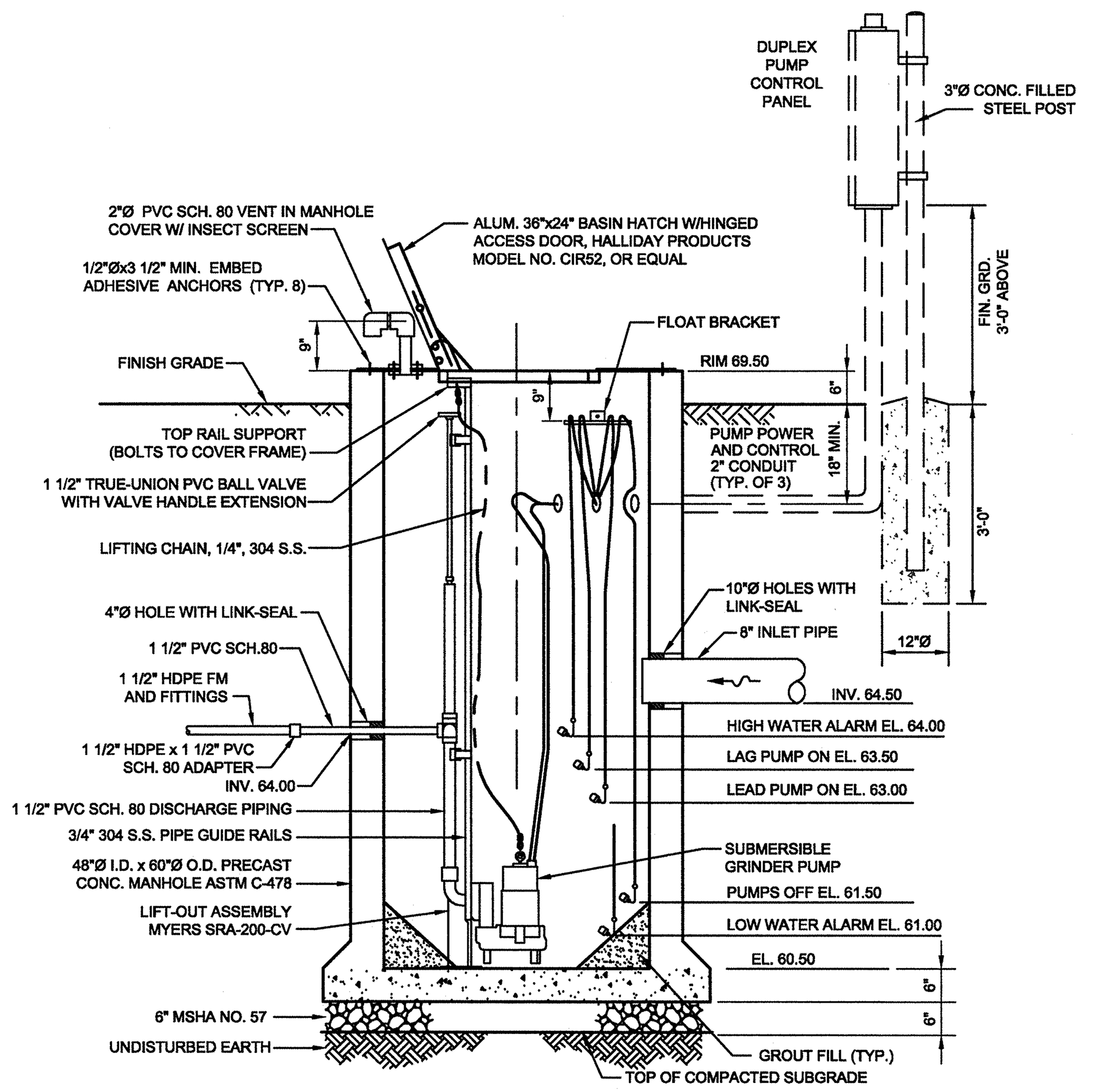
Shuttle Bus Facility (#424)



PLAN - TOP COVER



PLAN - INTERIOR



* DIMENSION OR ELEVATION TO BE CONFIRMED IN THE FIELD BY THE CONTRACTOR.
** DIMENSION TO BE CONFIRMED BY THE MANUFACTURER.

ELEVATION

(PS 1) DUPLEX GRINDER PUMPING STATION

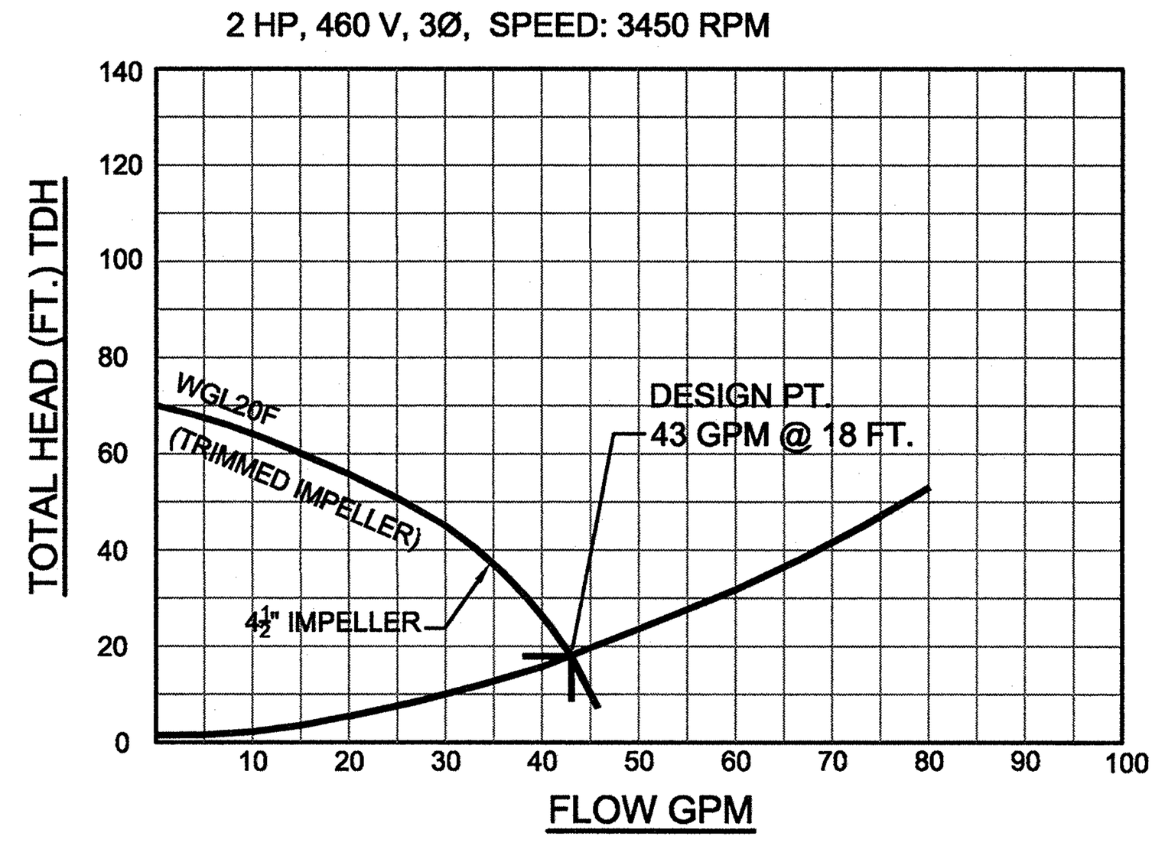
SCALE: 1/2" = 1'-0"

PUMP STATION DESIGN DATA

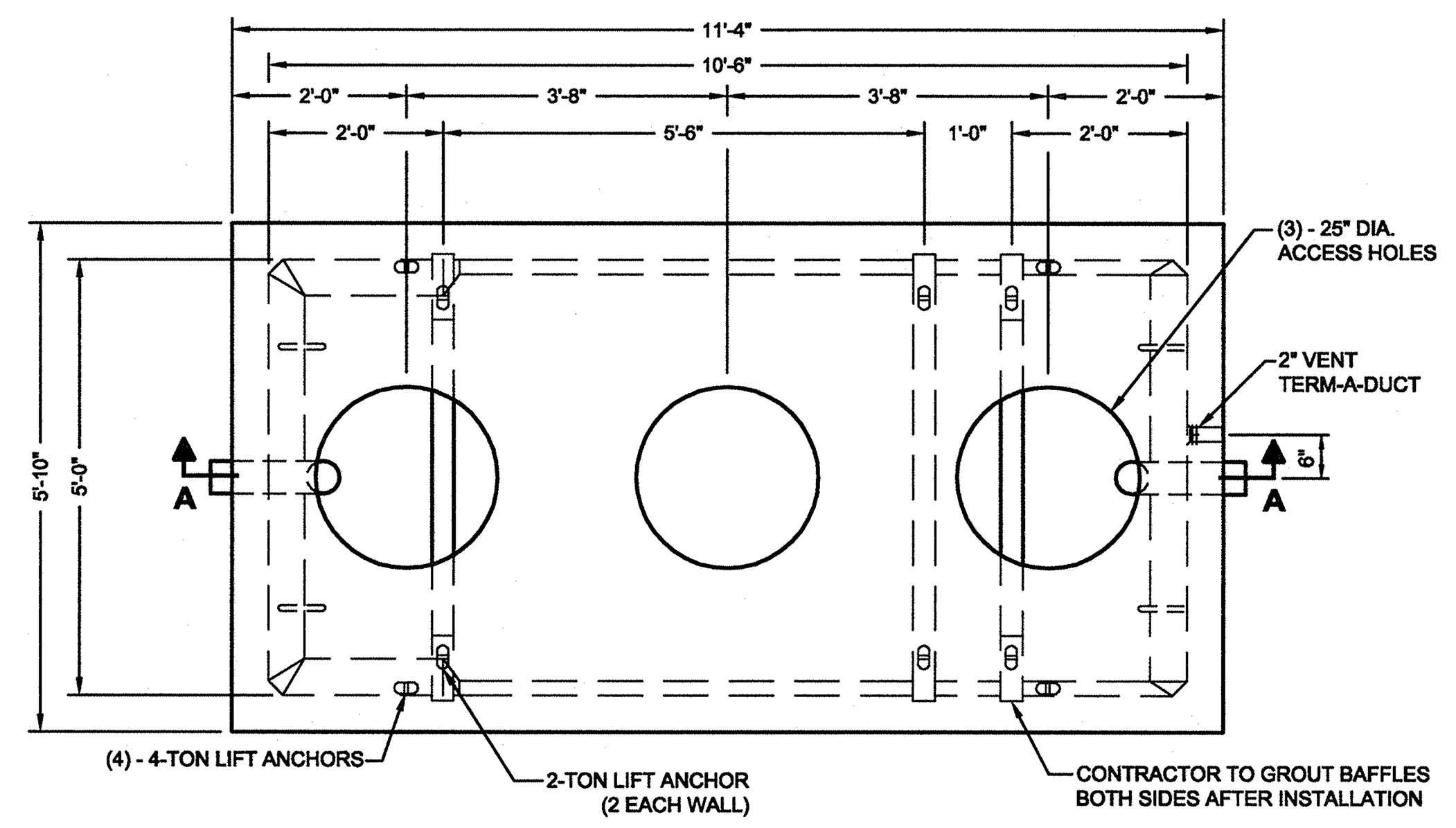
- * 1. AVERAGE DAILY FLOW = 7.0 GPM
- * 2. PEAK FLOW = 7.0 x 4 = 28 GPM
- 1. DESIGN FLOW = 43 GPM AT 18 FT.
- 2. WET WELL VOLUME REQ. = 75.3 GAL (V = TQ / 4 = 7.0x43 / 4)
- 3. WET WELL VOLUME PROVIDED = 94.0 GAL (94 GAL/FT x 1.0 OPER. RANGE)

* REFERENCE SEWAGE FLOW TABULATION

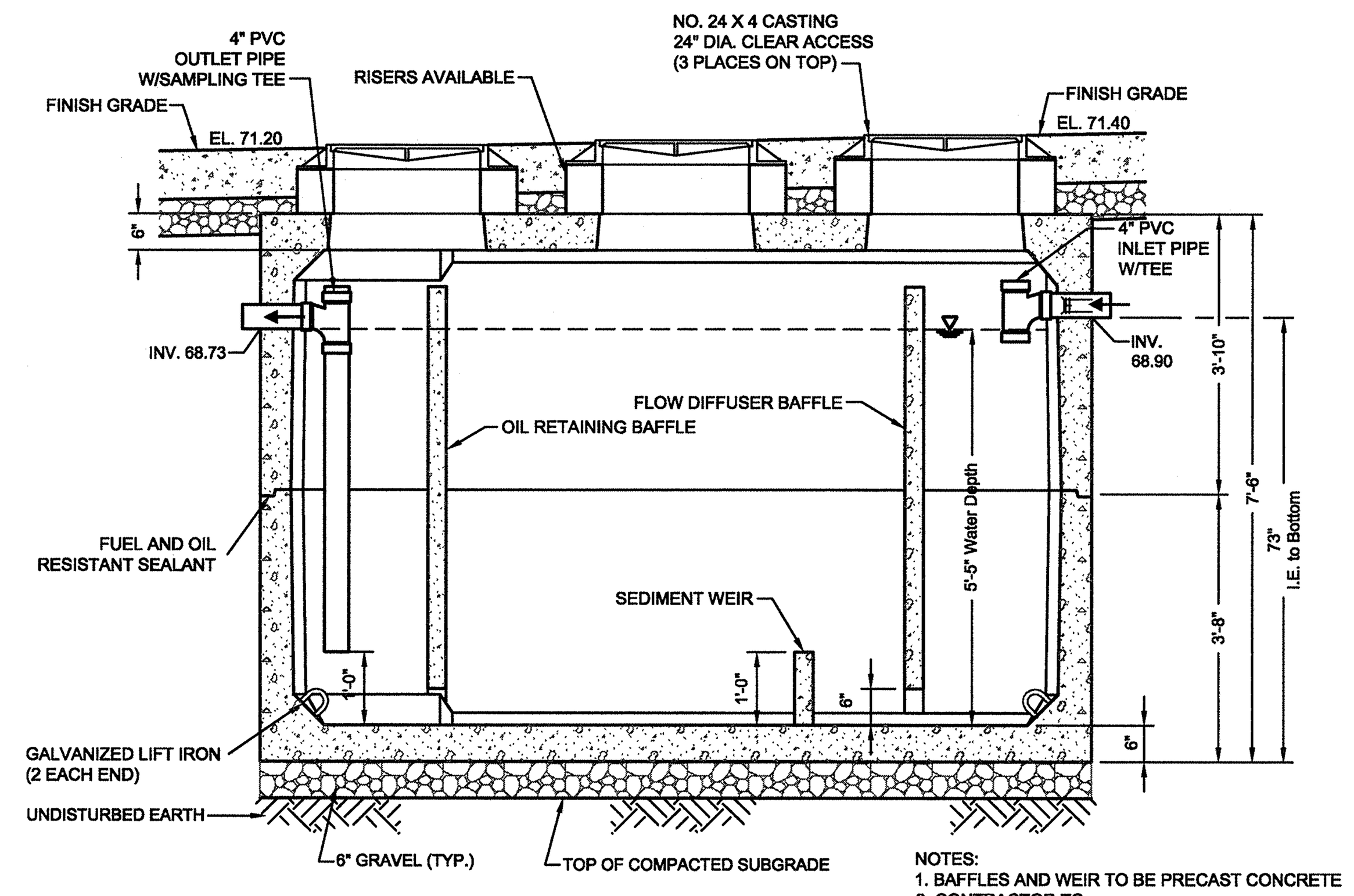
SUBMERSIBLE GRINDER PUMP
DESIGN FLOW 4800 GPD
2 HP, 460 V, 3Ø, SPEED: 3450 RPM



SYSTEM CURVE



PLAN VIEW
CASTINGS NOT SHOWN



NOTES:
1. BAFFLES AND WEIR TO BE PRECAST CONCRETE
2. CONTRACTOR TO:
SET & GROUT BAFFLES & WEIR WALLS.
FILL WITH CLEAN WATER AFTER BACKFILLING IS COMPLETE AND PRIOR TO "START-UP" OF SYSTEM.
FOR CUSTOM APPLICATIONS
THE FOLLOWING INFORMATION IS NEEDED:
- TOP OF SEPARATOR ELEVATION
- INLET AND OUTLET PIPE SIZES AND ELEVATIONS

SECTION AA

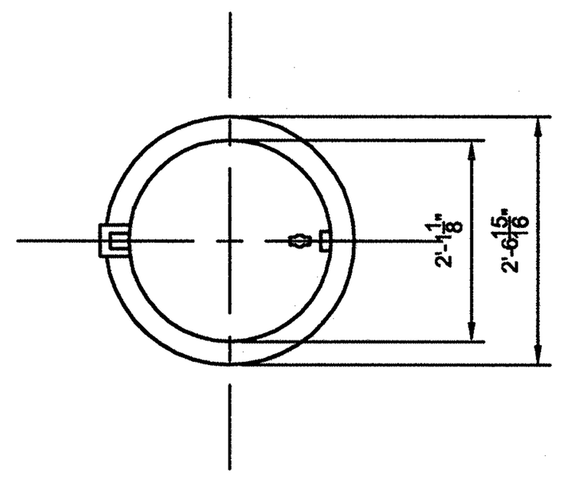
(OWS 1) OIL / WATER SEPARATOR

SCALE: 1/2" = 1'-0"

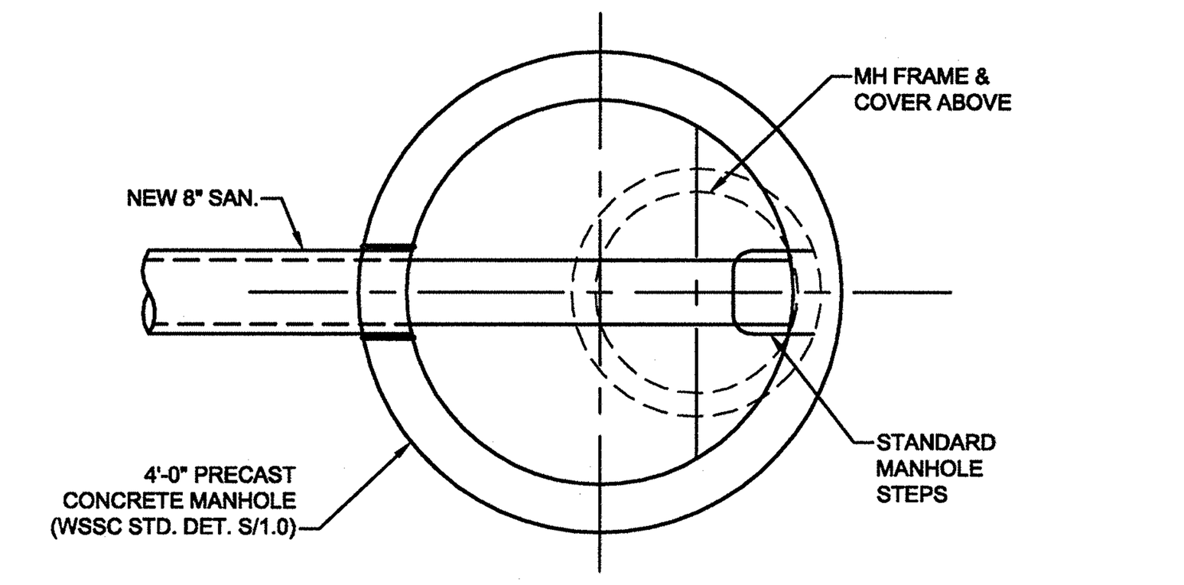
OIL / WATER SEPARATOR DESIGN DATA

1. NUMBER OF BAYS - 4
2. FUTURE BUS FACILITY - 1
3. SIZE OF O/W SEPARATOR - WSSC LARGE
4. VOLUME REQUIRED (1600 GAL.) - 216 CU.FT.
5. VOLUME PROVIDED (2094 GAL.) - 280 CU.FT.
6. STRUCTURAL LOADING REQUIRED - HS20
7. OIL / WATER SEPARATOR - 3 COMPARTMENT
OLDCASTLE PRECAST MODEL 5106-2-5A OR EQUAL
8. MANHOLE FRAMES & COVERS - MODEL 1204
WITH VENTED COVER - EAST JORDAN IRON WORKS

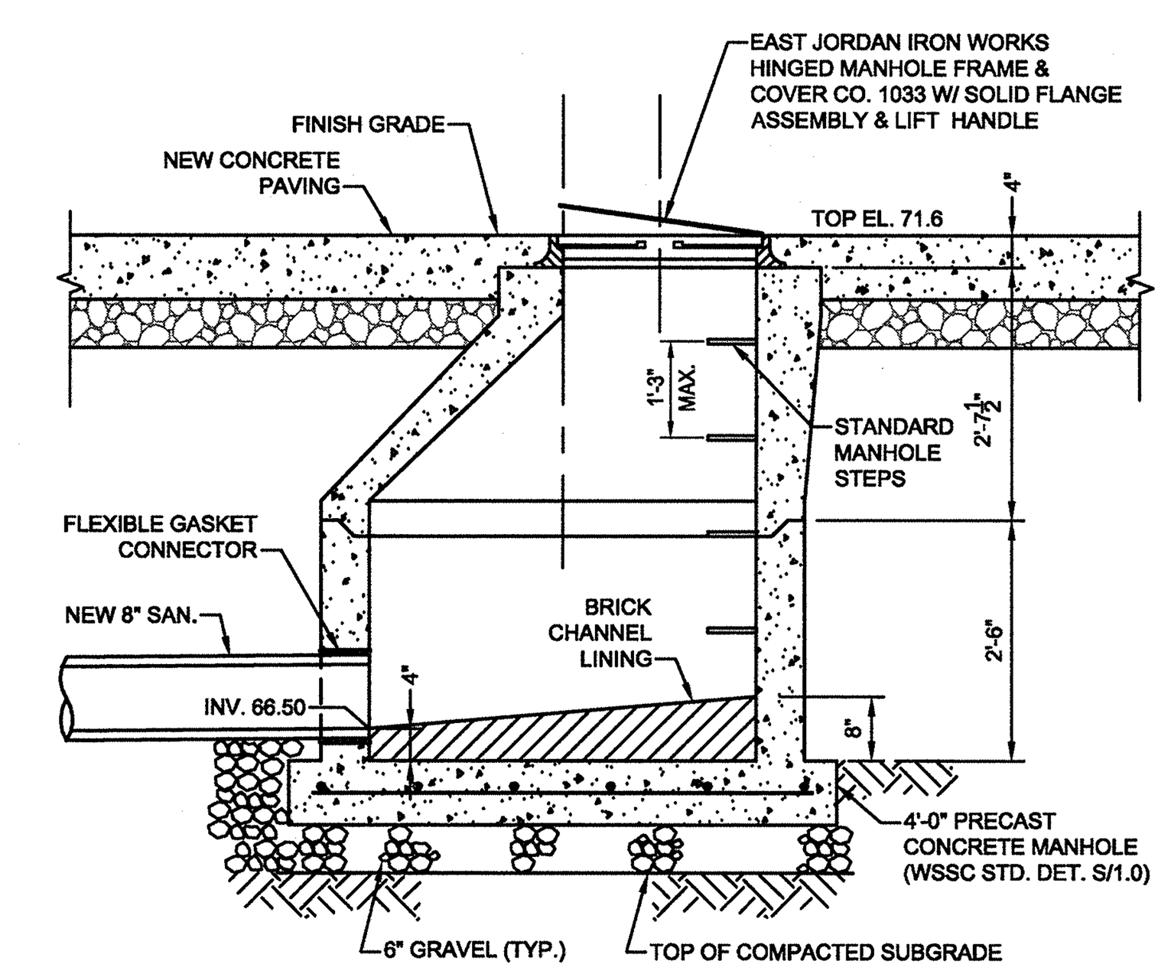
NOTE: MINIMUM SIZE INTERCEPTOR SHALL BE A MINIMUM 1600 GALLONS, 3 COMPARTMENT UNIT AS MANUFACTURED BY A WSSC APPROVED INTERCEPTOR PROVIDER.



PLAN - MH FRAME & COVER



PLAN - INTERIOR



ELEVATION

(SMH 3) SEPTAGE RECEIVING MANHOLE

SCALE: 1/2" = 1'-0"

SANITARY SYSTEM GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE WASHINGTON SUBURBAN SANITARY COMMISSION STANDARD DETAILS DATED JULY 01, 2005 AND STANDARD SPECIFICATIONS DATED APRIL 2009.

GRAPHIC SCALE
0 1 2 4 8
SCALE: 1/2"=1'-0"

ONSITE SANITARY DETAILS

ONSITE #

OWNER/APPLICANT	ENGINEER
UNIVERSITY OF MARYLAND COLLEGE PARK SRVC BLDG. 0600 GREENHOUSE RD. COLLEGE PARK, MD 20742 PHONE NO. 301-405-7506 P.O.C. BRIAN STILL bstill@FM.UMD.EDU	WBCM, LLC 849 FAIRMOUNT AVE., SUITE 100 BALTIMORE, MD 21286 PHONE NO. 410-512-4500 P.O.C. PHILIP DER, PE PDER@WBCM.COM

ZONE
HHG =
LHG =

AVERAGE SEWAGE FLOW = 9993 GPD

WBCM

UNIVERSITY OF MARYLAND COLLEGE PARK
COLLEGE PARK, MD 20742
WATER AND SEWER SERVICE CONNECTION

C-4.3 | 3 OF 4 | 10-27-10 | SHEET NO. - OF

P:\2005\05009828\Drawings\07 Site\UTILITY.dwg Oct 27, 2010 – 1:48pm Plot By: hhwang

WBCM
ARCHITECTURE ENGINEERING CONSTRUCTION

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License # 16897 Expiration Date: 04/15/12.

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel 301.595.1000
Fax 301.595.0089

1355 Beverly Road
Suite 105
McLean, VA 22101
Tel 703.903.9100
Fax 703.903.9755

GRIMM + PARKER
ARCHITECTS

GP# 21008

UTILITY DETAILS
LOT 4i SHUTTLE FACILITY
UNIVERSITY OF MARYLAND COLLEGE PARK

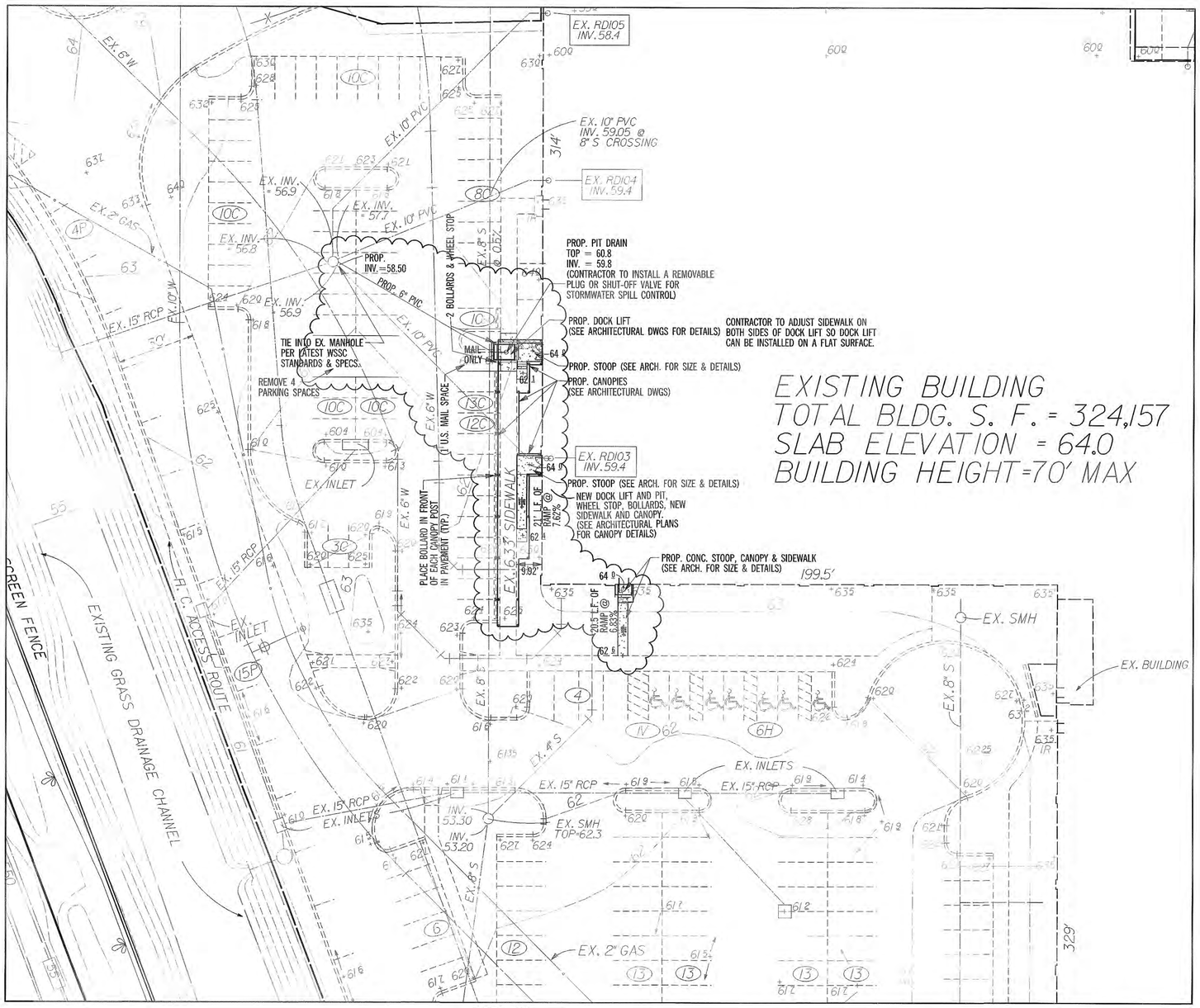
DATE	DESCRIPTION
5/21/10	DD SUBMISSION
7/28/10	65% CD SUBMISSION
9/28/10	95% CD SUBMISSION

C-4.3

10/29/10
BID SET

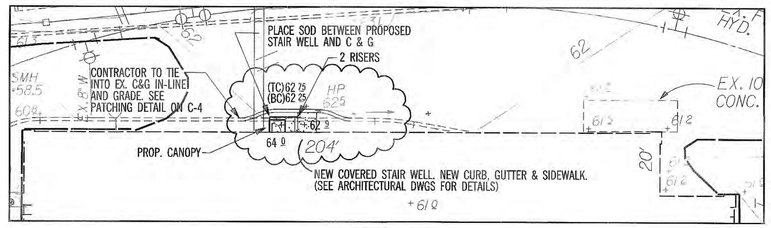
MDE # 11-SF-0002

Severn Building (#810)

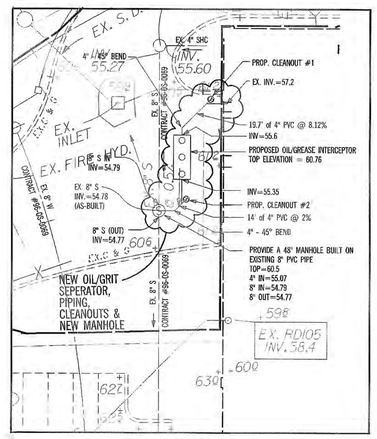


EXISTING BUILDING
TOTAL BLDG. S. F. = 324,157
SLAB ELEVATION = 64.0
BUILDING HEIGHT=70' MAX

AREA A-3



AREA A-1



AREA A-2

ENGINEER'S CERTIFICATE

I hereby certify that the grading shown hereon conforms with Subtitle Four, Division Three of the Prince George's County Code.

DATE _____ _____
Registered Engineer

I CERTIFY THAT I HAVE INSPECTED THIS SITE AND THAT DRAINAGE ONTO THIS SITE FROM OTHER UPGRADE PROPERTIES AND FROM THIS SITE ONTO OTHER DOWNGRADE PROPERTIES HAS BEEN ADDRESSED IN SUBSTANTIAL ACCORDANCE WITH APPLICABLE CODES.

NAME _____ DATE _____

CALL "MISS UTILITY"
TELEPHONE 1-800-257-7777
FOR UTILITY LOCATIONS AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION

0 20 40 80 FEET
SCALE: 1"=20'

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 11391 EXPIRATION DATE: 3-25-2011

STATE OF MARYLAND · ALAN V. AMATO · REGISTERED PROFESSIONAL ENGINEER

11720 Beltsville Drive Suite 600 Calverton, MD 20705 Tel 301.595.1000 Fax 301.595.0089
1355 Beverly Road Suite 105 McLean, VA 22101 Tel 703.903.9100 Fax 703.903.9755
GRIMM + PARKER ARCHITECTS

GP# 21010

ENLARGED SITE PLAN AREAS

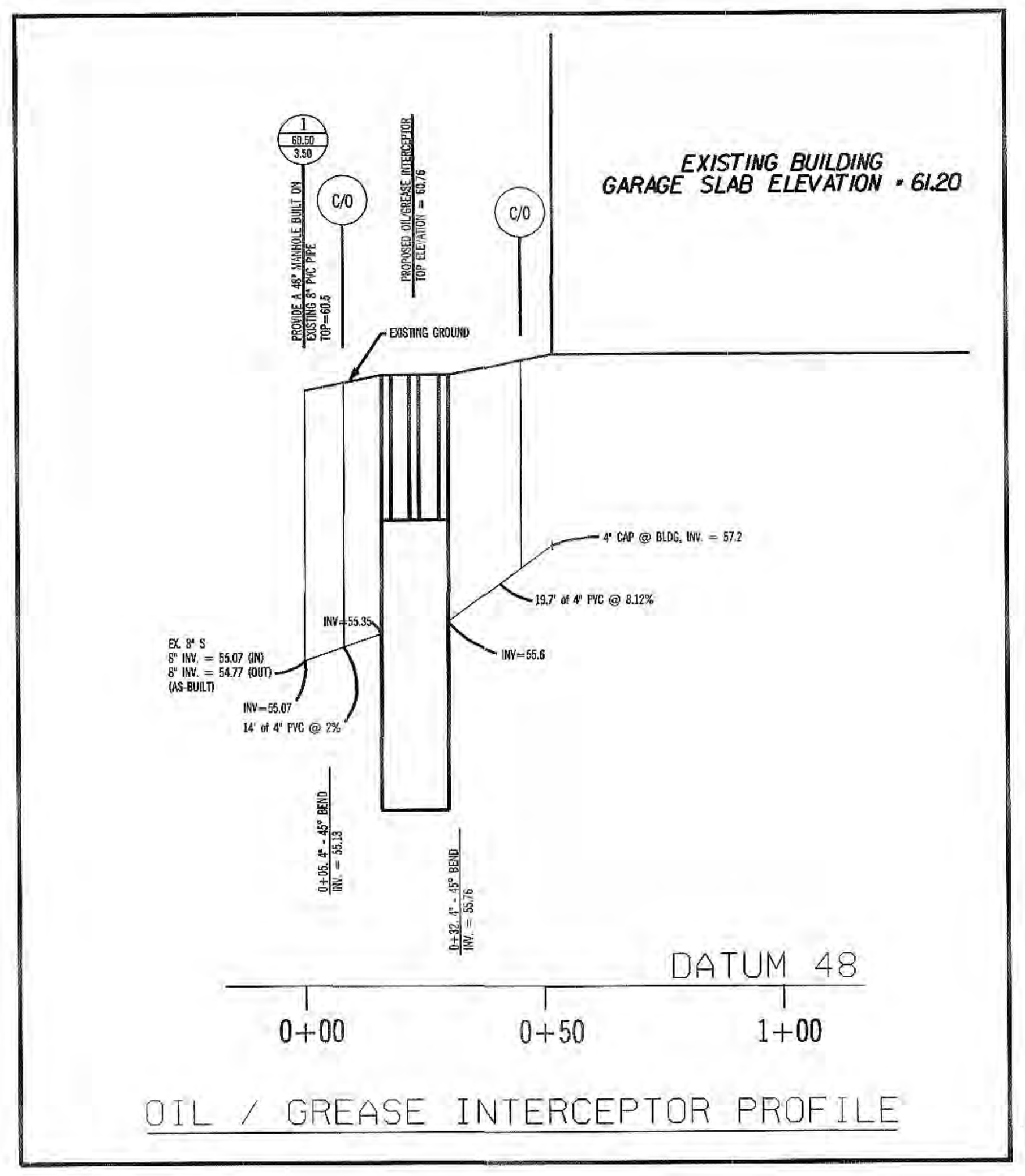
UM SEVERN BUILDING - PHASE 1 RENOVATION
UNIVERSITY OF MARYLAND COLLEGE PARK

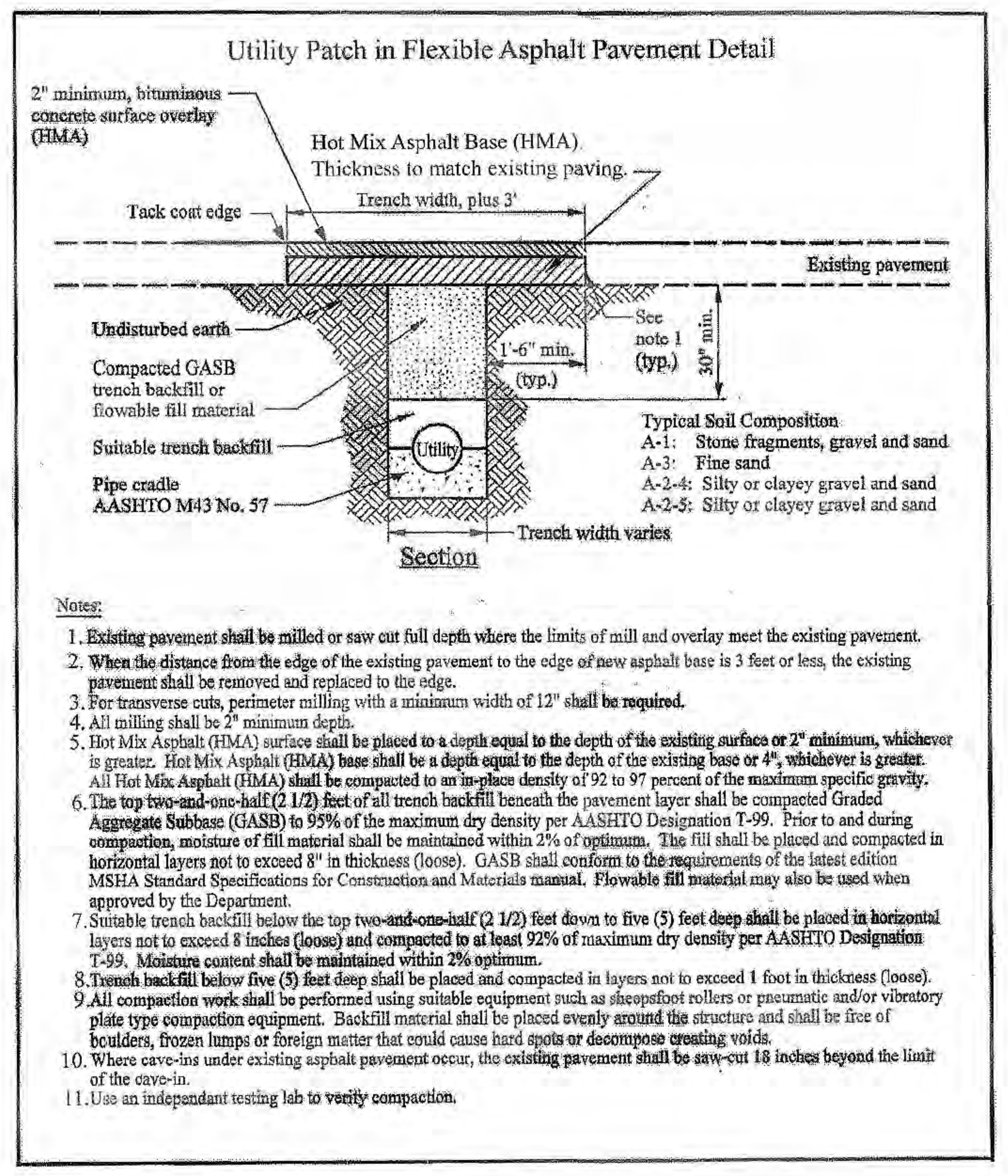
DATE	DESCRIPTION
4/23/10	DD SUBMISSION
9/3/10	65% CD SUBMISSION
10/12/10	95% CD SUBMISSION

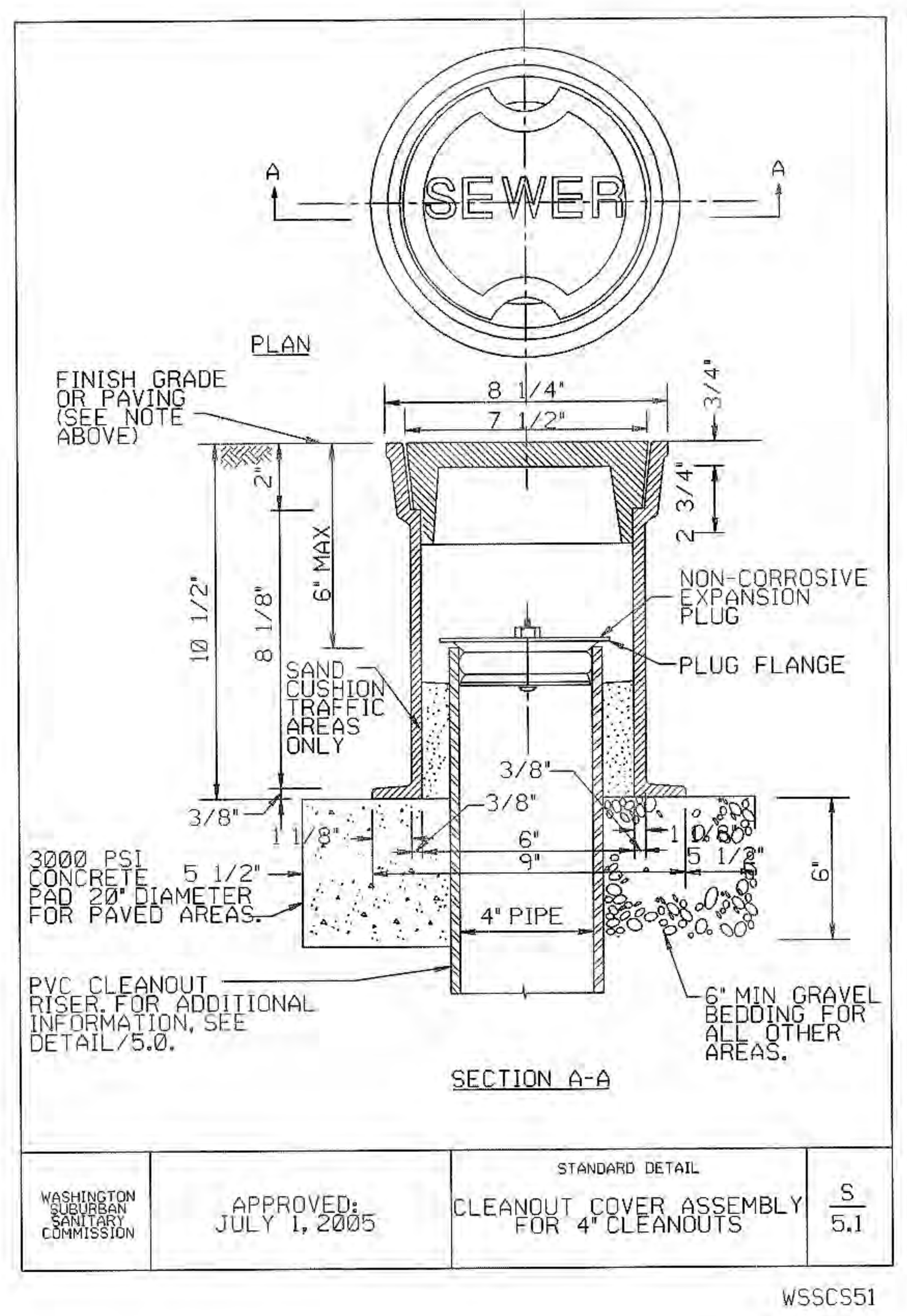
C-3

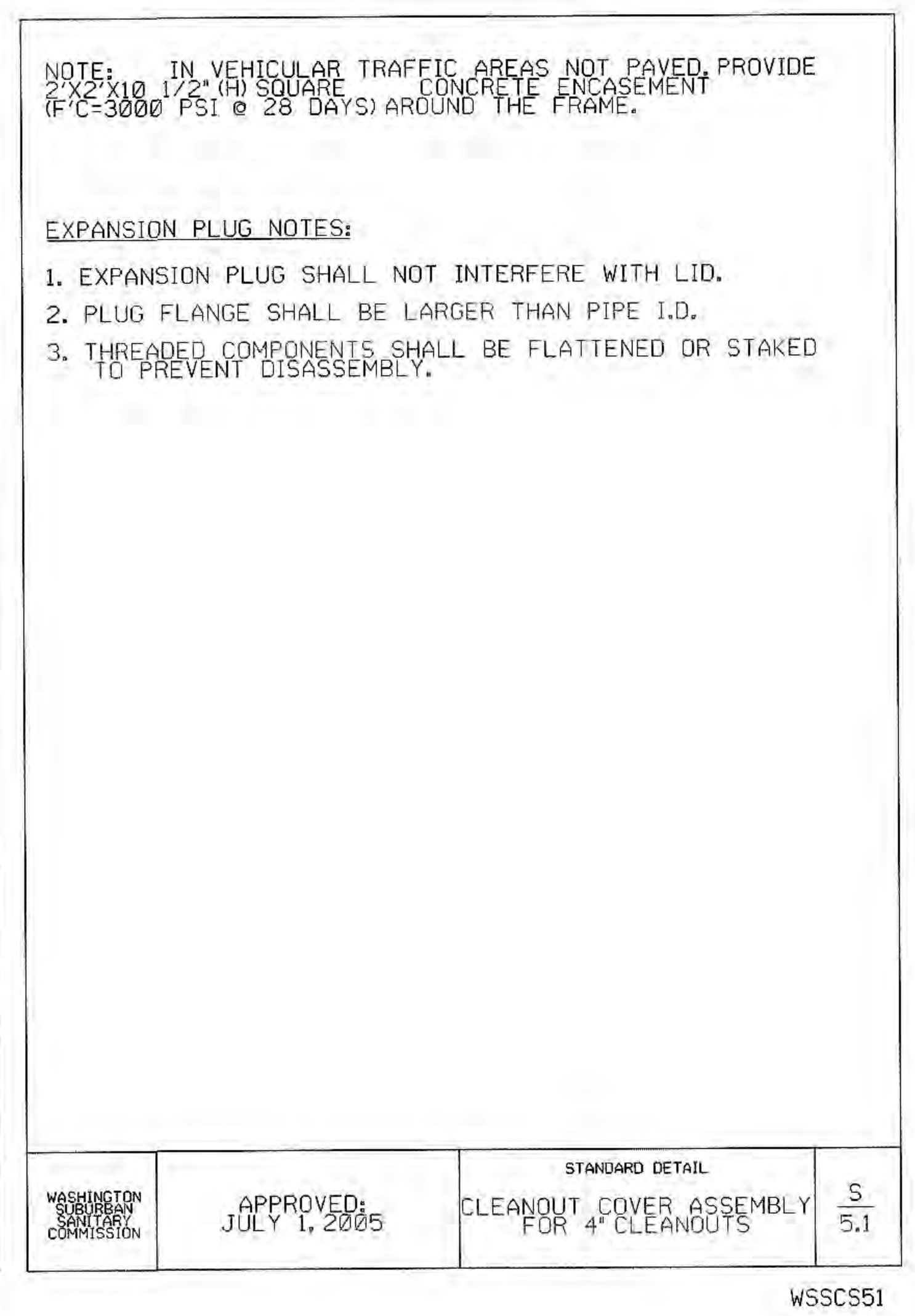
11/10/10
BID SET

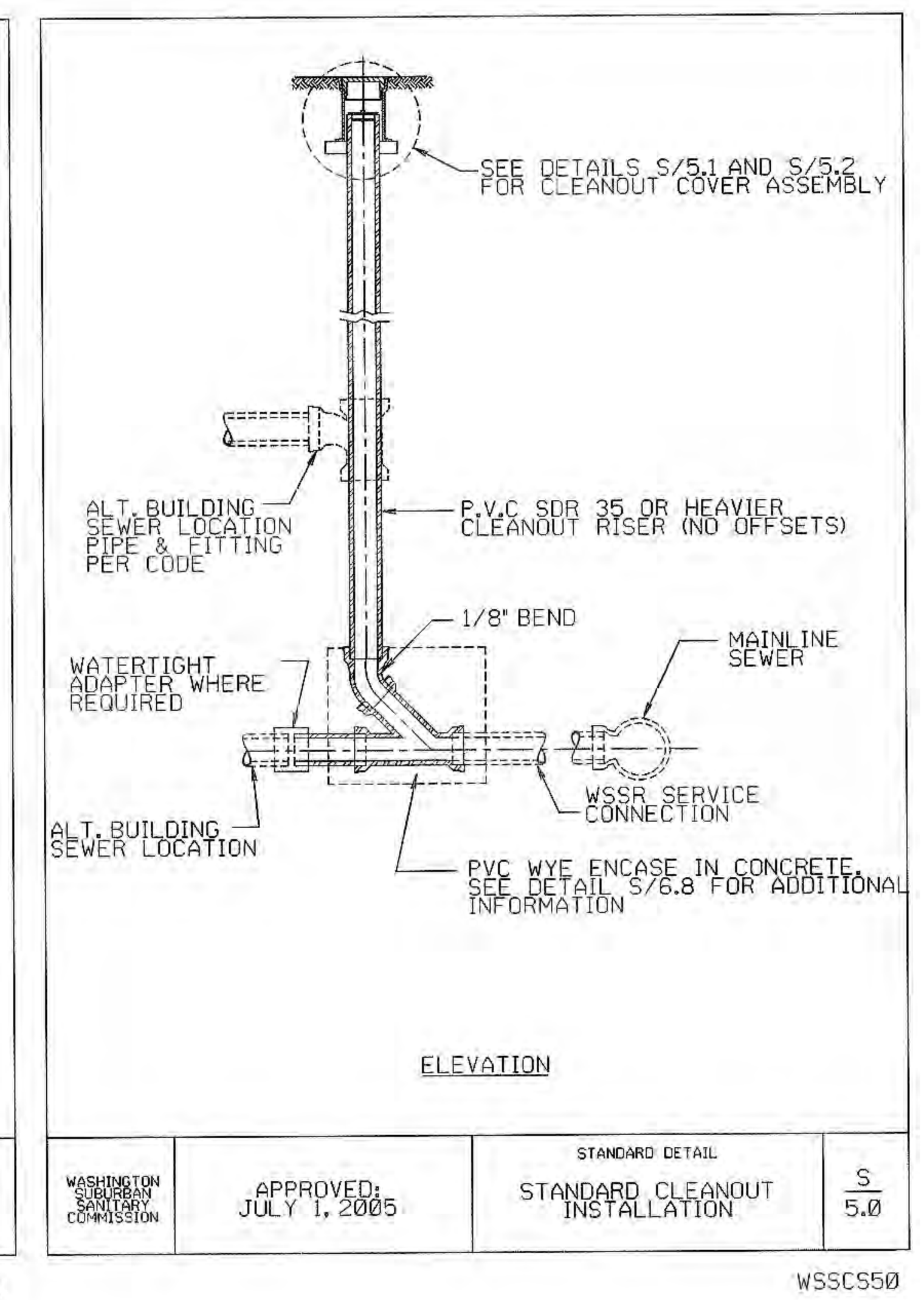
Severn Building (#810)

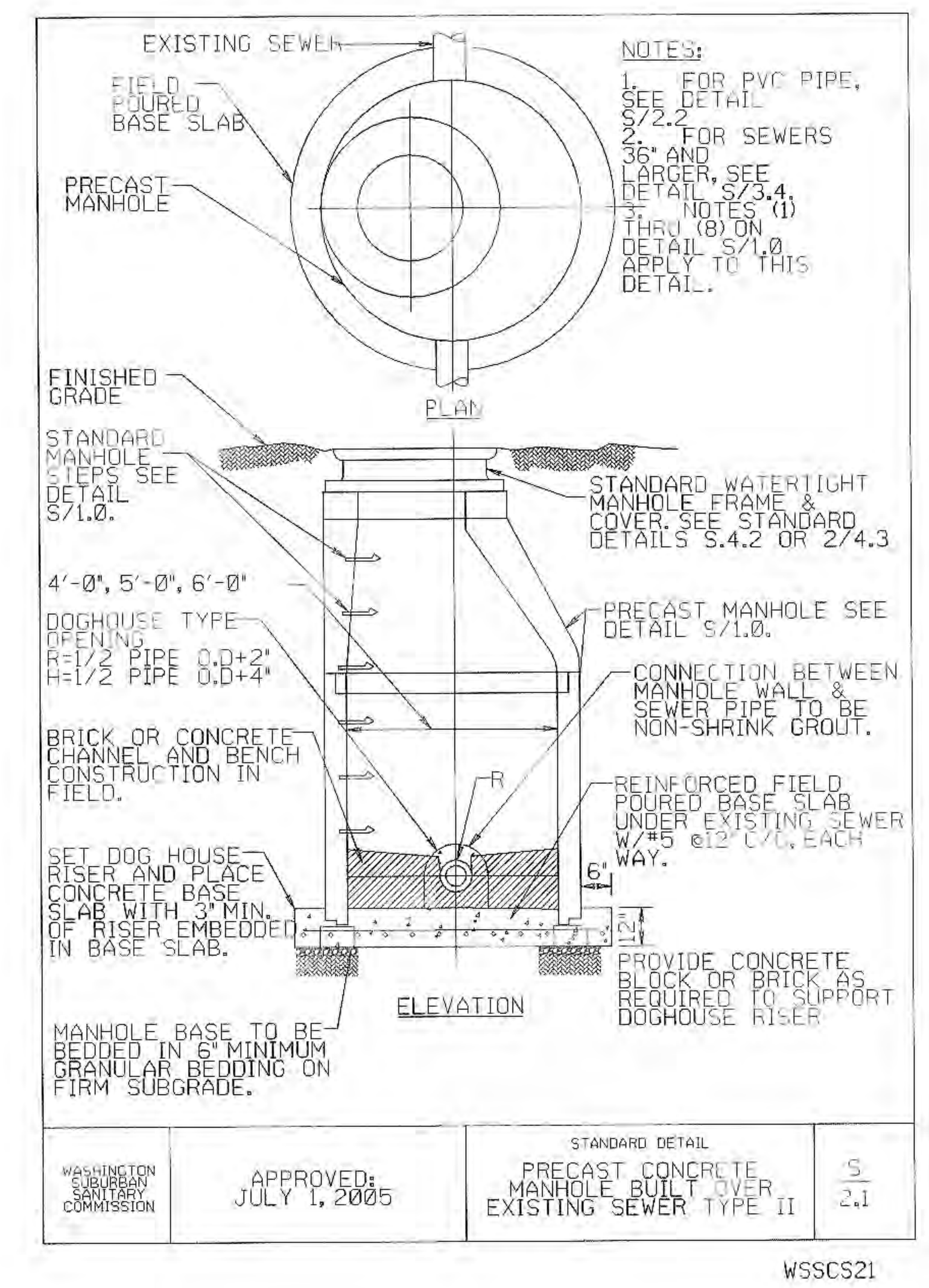


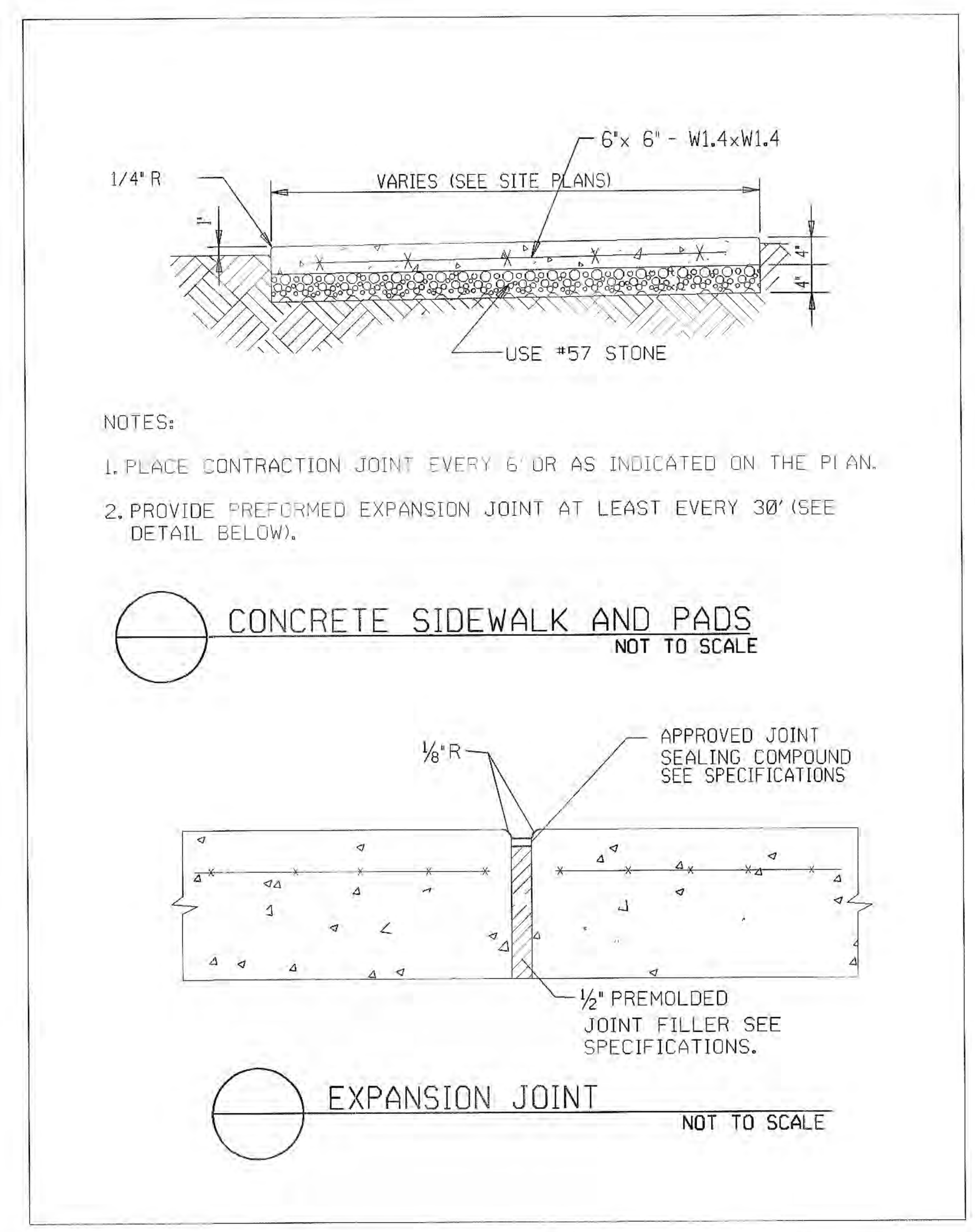


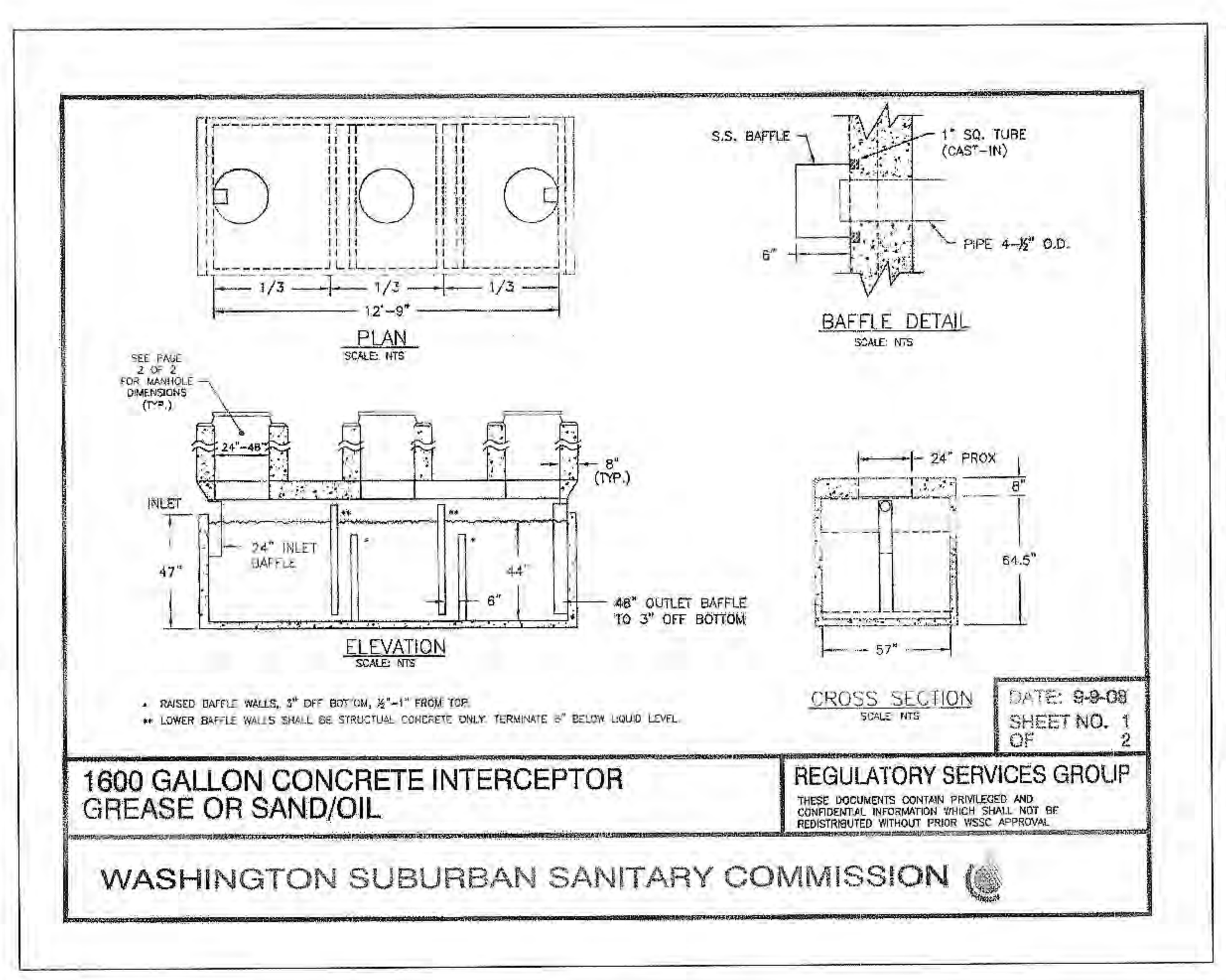


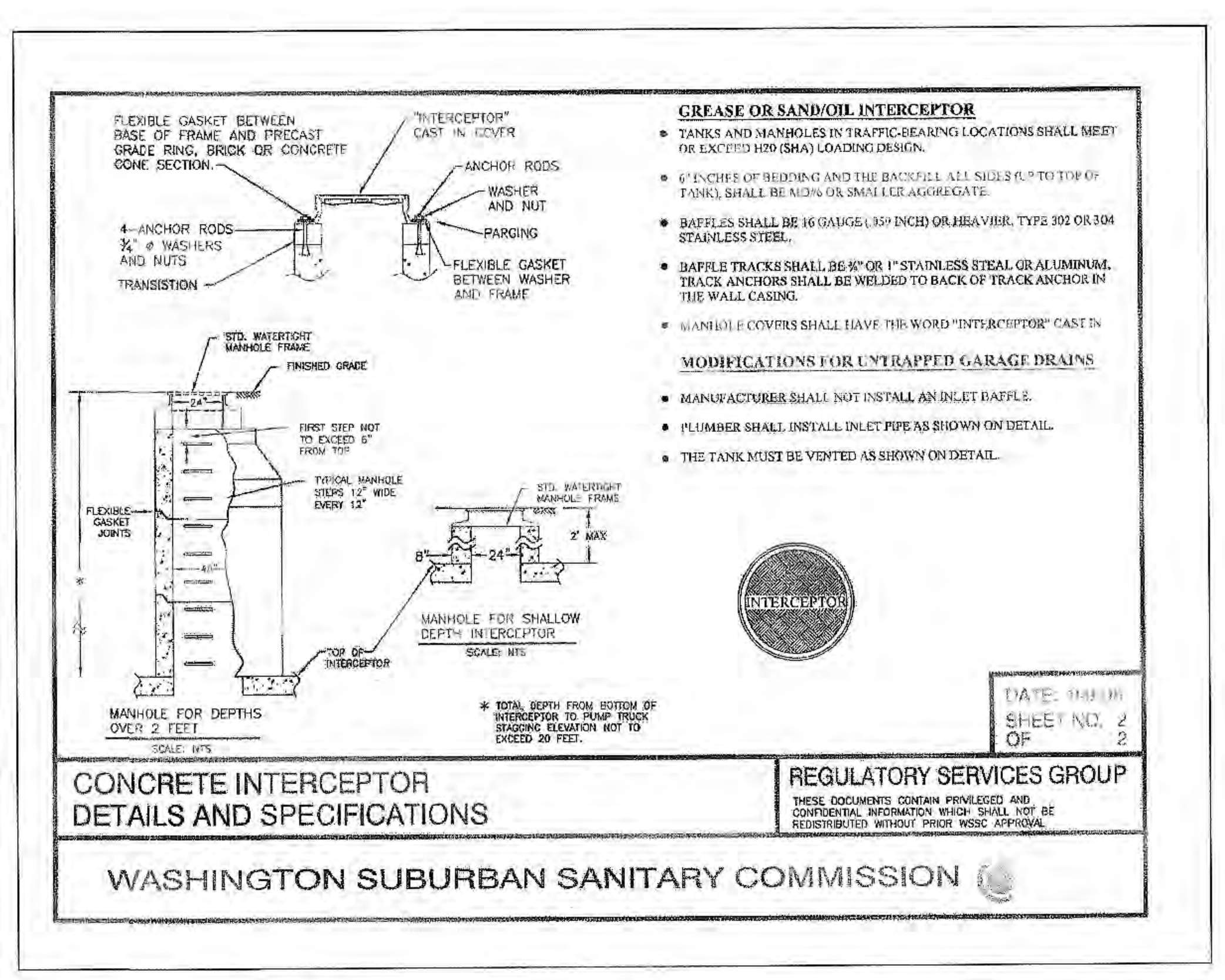


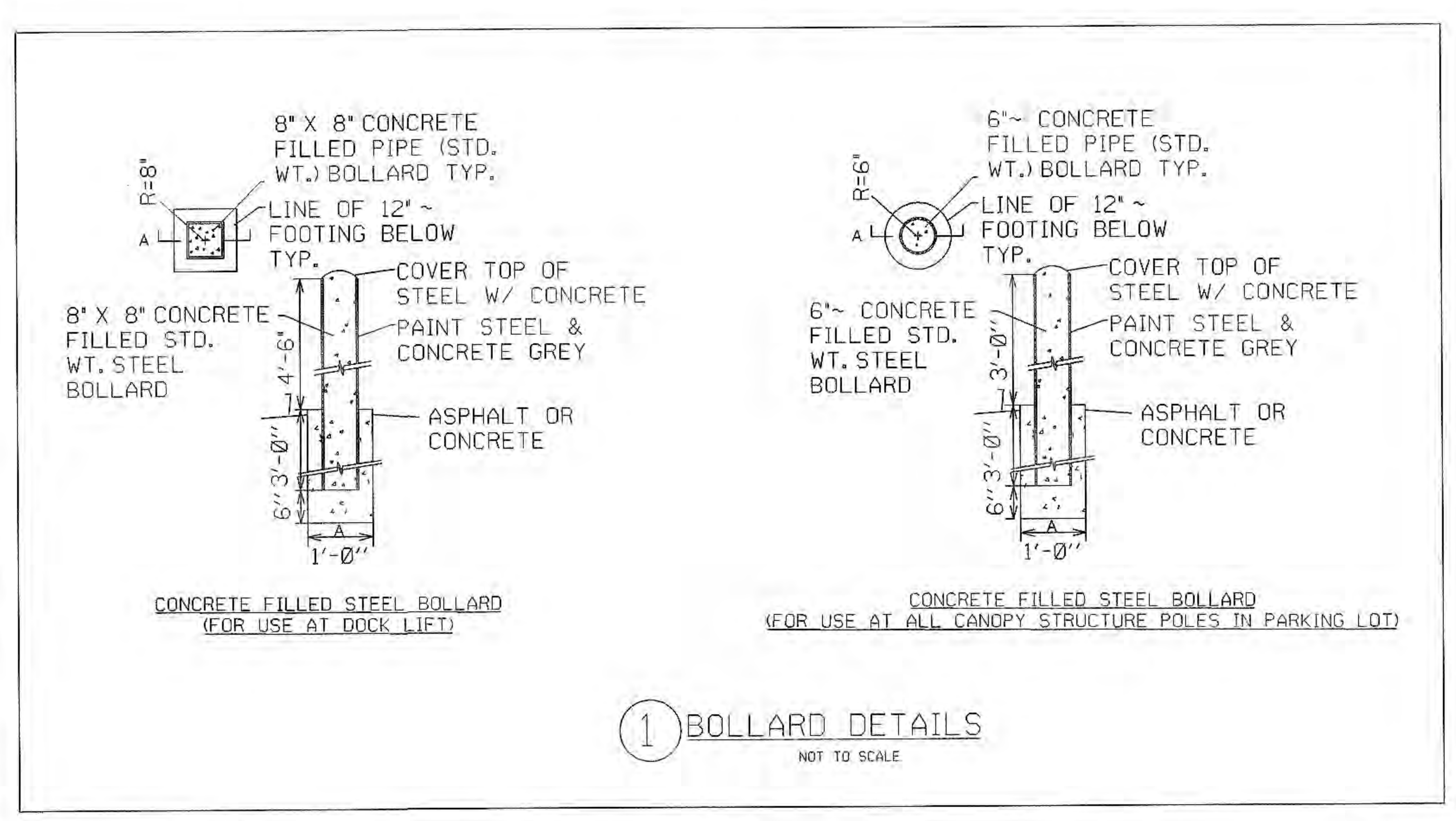












PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE NO. 11391 EXPIRATION DATE 3-25-2011

11720 Beltsville Drive, Suite 600, Calverton, MD 20705 — Tel 301.595.1000, Fax 301.595.0089

1355 Beverly Road, Suite 105, McLean, VA 22101 — Tel 703.903.9100, Fax 703.903.9755

GRIMM + PARKER ARCHITECTS

GP# 21010

SITE DETAILS

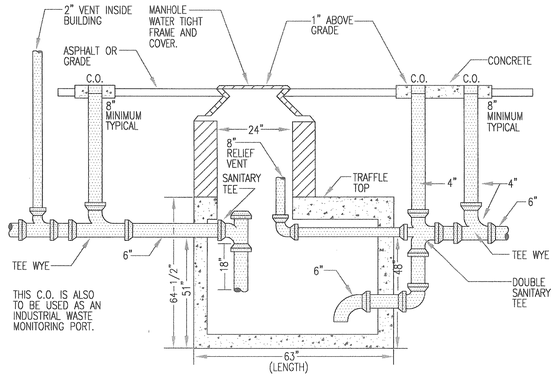
UM SEVERN BUILDING - PHASE 1 RENOVATION
UNIVERSITY OF MARYLAND COLLEGE PARK

DATE	DESCRIPTION
4/23/10	DD SUBMISSION
7/3/10	65% CD SUBMISSION
10/13/10	95% CD SUBMISSION

C-4

11/10/10
BID SET

Terrapin Trail Parking Garage (#403)



OIL AND SAND INTERCEPTOR DETAIL

SCALE: NONE

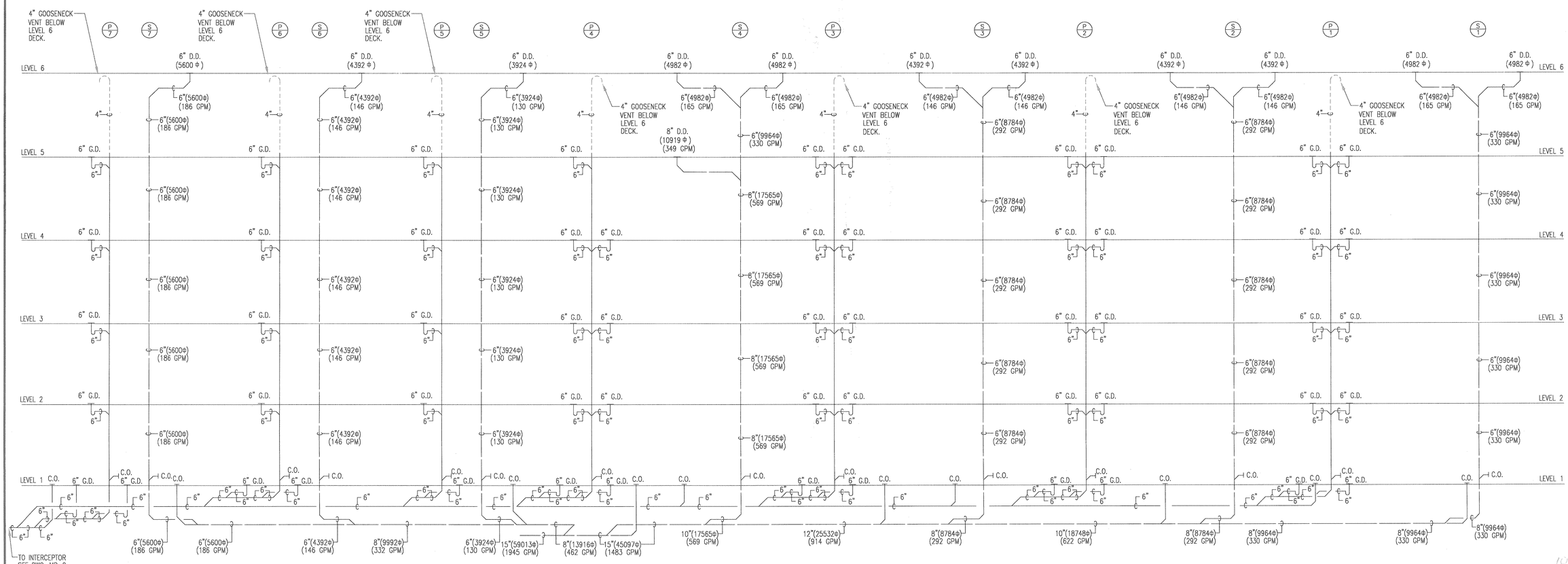
GENERAL NOTES

1. OBTAIN AND PAY FOR PERMITS, ARRANGE FOR INSPECTIONS BY LOCAL AUTHORITIES HAVING JURISDICTION.
2. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL CODES AND PROJECT SPECIFICATIONS.
3. PLUMBING CONTRACTOR SHALL VERIFY ALL INVERTS PRIOR TO CONSTRUCTION. COORDINATE SANITARY AND STORM SEWER CONNECTIONS WITH APPROPRIATE AGENCY.
4. PLUMBING CONTRACTOR SHALL COORDINATE PIPING WITH ALL TRADES PRIOR TO CONSTRUCTION TO AVOID INTERFERENCE.
5. STORM PIPING SHALL BE INSTALLED AT 1/8" PER FOOT SLOPE.
6. STORM PIPING ABOVE GRADE SHALL BE SERVICE WEIGHT SCHEDULE 40 NO-HUB CAST IRON OR HUB AND SPIGOT CAST IRON OR P.V.C.
7. GARAGE DRAINS (G.D.-1) SHALL BE "ZURN" MODEL Z-534-C 12" DIAMETER PARKING DECK DRAIN WITH SUPPORT FLANGE. SEE DRAWINGS FOR SIZE. GARAGE DRAINS (G.D.-2) SHALL BE "ZURN" MODEL Z-521 FOR PAVING ON GRADE, CAST IRON BODY BOTTOM OUTLET WITH ADJUSTABLE EXTENSION FRAME. SEE DRAWINGS FOR SIZE.

SYMBOLS AND ABBREVIATIONS

——— ———	STORM SEWER PIPING	
——— ———	SANITARY PIPING	
———o	PIPE TURNING UP	
———⊖	CLEANOUT	C.O.
S/#	STORM RISER DESIGNATION	
P/#	SANITARY RISER DESIGNATION	
▤	GARAGE DRAIN – SANITARY	G.D.
▤	DECK DRAIN – STORM	D.D.
	RAINLEADER	R.L.
	GALLONS PER MINUTE	G.P.M.
——⋈——	CHECK VALVE	
——— ———	SANITARY PIPING	
——⋈——	OUTSIDE SCREW AND YOKE VALVE	O.S.&Y.
⊖—⊖	FIRE HOSE VALVE	F.H.V.

EF / 1	EQUIPMENT DESIGNATOR EF – EXHAUST FAN CU – CONDENSING UNIT UH – UNIT HEATER L – LOUVER SAC – SUPPLEMENTAL AIR CONDITIONING UNIT
M ———	MOTORIZED DAMPER
S.A.R.	SUPPLY AIR REGISTER
——RL——	REFRIGERANT LIQUID LINE
——RS——	REFRIGERANT SUCTION LINE
——D——	CONDENSATE DRAIN LINE
	DUCTWORK W/ 1" S.L.



SANITARY/STORM RISER DIAGRAM

SCALE: NONE

E. K. FOX & ASSOCIATES, LTD.
CONSULTING ENGINEERS
10304 Eaton Place, Suite 400
Fairfax, Virginia 22030
Tele.: (703) 273-1112
E-mail: ekfox@ekfox.com

DESMAN ASSOCIATES
8614 WESTWOOD CENTER DRIVE, SUITE 300
VIENNA, VIRGINIA 22182
Tel: (703) 448-1,100 Fax: (703) 883-0567
A DIVISION OF DESMAN, INC.
NEW YORK CHICAGO WASHINGTON, D.C. LOS ANGELES BOSTON CLEVELAND HARTFORD BALTIMORE

UNIVERSITY OF MARYLAND
PARKING GARAGE 4
COLLEGE PARK, MARYLAND

NO.	DATE	BY
REVISIONS		

NOTES & SYMBOLS PLAN

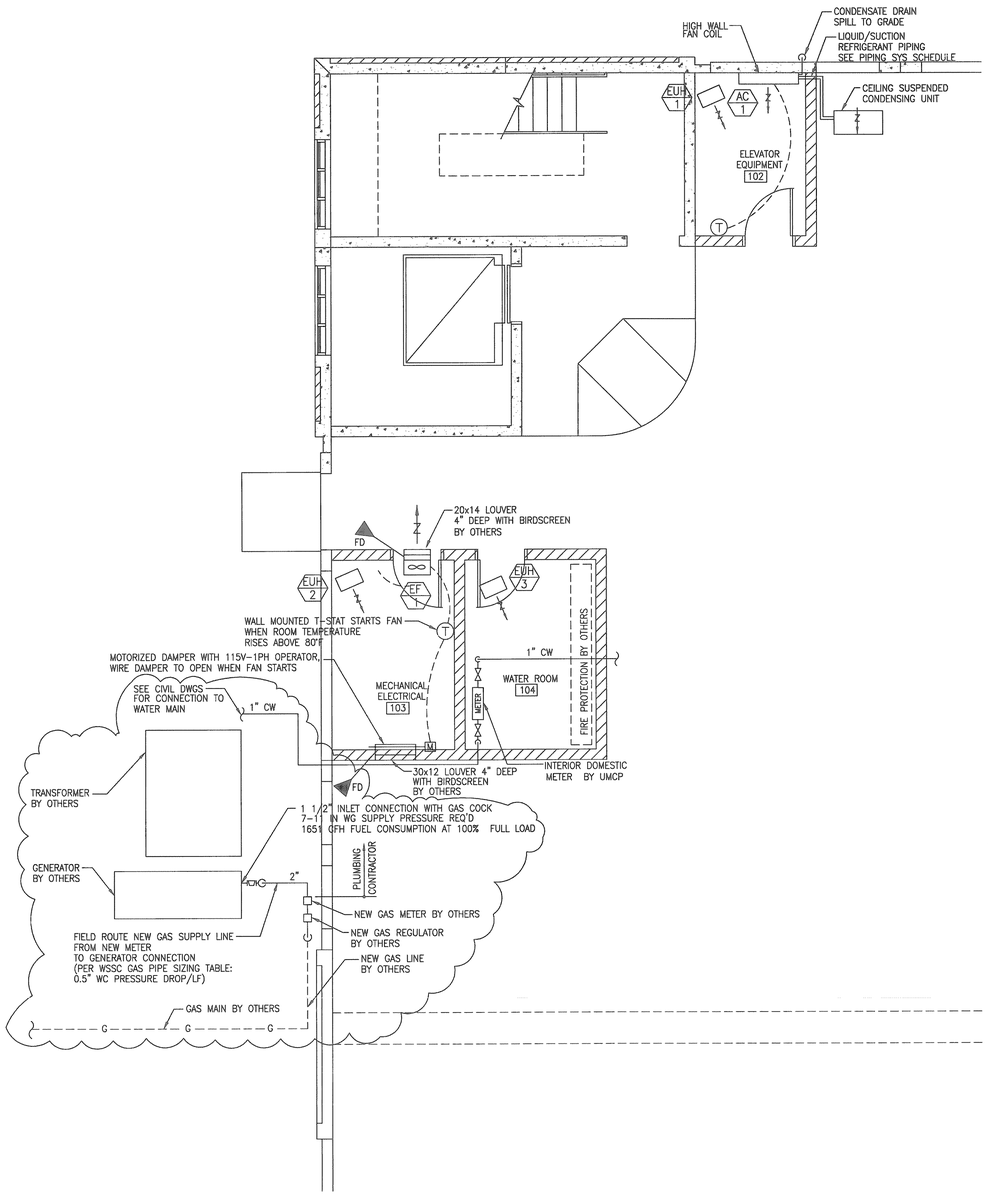
DRAWING NO. MP-1

SCALE:	AS NOTED
DATE:	8-25-2000
PROJECT NO.	J-588.1

DESIGN	DRAWN	CHKD
JKS	KAF	JKS

FOR CONSTRUCTION

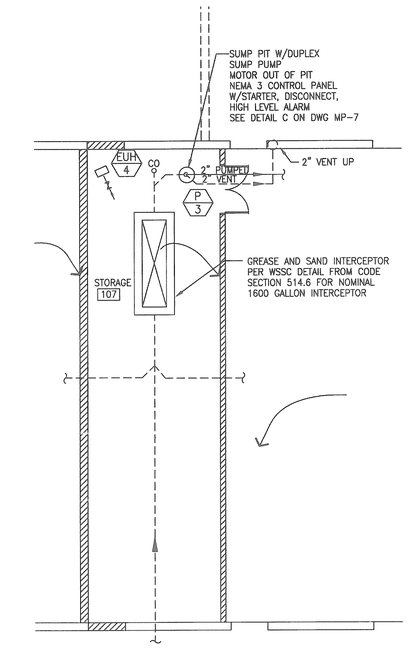
Mowatt Lane Parking Garage (#404)



North

ENLARGED PLAN A

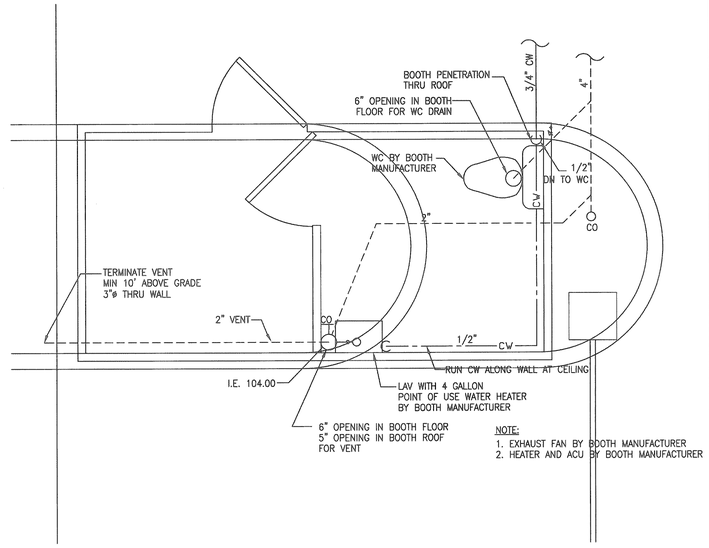
SCALE: 1/4" = 1'-0"



North

ENLARGED PLAN C

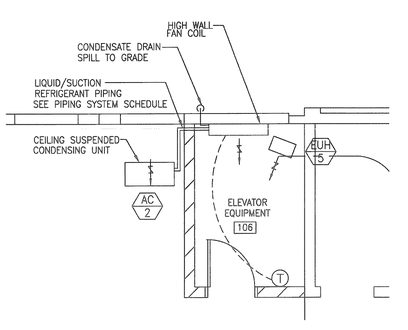
SCALE: 1/8" = 1'-0"



North

ENLARGED PLAN F
WEST GUARD BOOTH TOILET ROOM

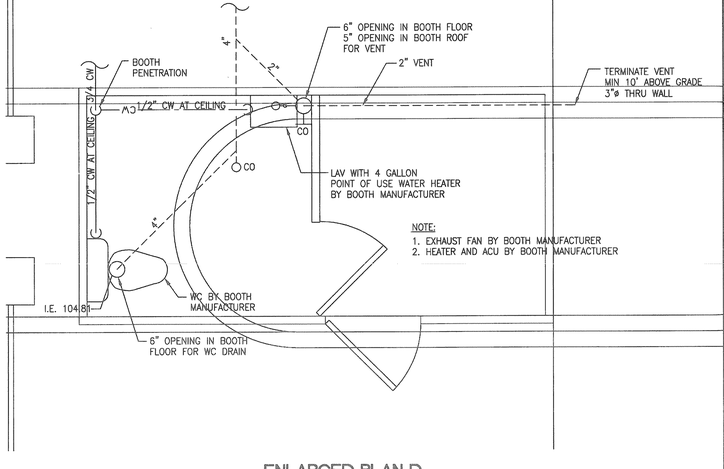
SCALE: 1/2" = 1'-0"



North

ENLARGED PLAN B

SCALE: 1/4" = 1'-0"



North

ENLARGED PLAN D
EAST GUARD BOOTH TOILET ROOM

SCALE: 1/2" = 1'-0"

ISSUED FOR AS-BUILT
ISSUE DATE: 08/28/03

ISSUED FOR PERMIT
ISSUE DATE: 07/30/02
REISSUE DATE: 10/09/02
REISSUE DATE: 03/03/03
REISSUE DATE: 07/18/03

6850 T.G. LEE BLVD, SUITE 120
ORLANDO, FLORIDA 32822
407-438-1500
FAX (407-438-1605
Mechanical Professional Services, Inc.

USING AGENCY APPROVAL — DATE — TITLE

DEPARTMENT OF GENERAL SERVICES APPROVAL — DATE — PROJECT MANAGER — DATE — CHIEF - PROJ. MGT. & DESIGN

REVISIONS

SHEET TITLE: LEVEL 1 ENLARGED PLANS

PROJECT FACILITY: PARKING GARAGE #5 — UNIVERSITY OF MARYLAND — COLLEGE PARK, MARYLAND

PROJECT NO. D-00034
DATE 07/30/02

MP-4

SHEET 5 OF 10

plot date:

Appendix I
Loading/Unloading Procedures and Checklist

DEPARTMENT OF
ENVIRONMENTAL SAFETY,
SUSTAINABILITY & RISK

Seneca Building
4716 Pontiac Street, Suite 0103
College Park, MD 20742
301.405.3960 TEL 301.314.9294 FAX

Oil Loading and Unloading Procedures:

Bulk Transfer Procedures Precautions are taken to ensure both personnel safety and prevention of spills or accidental releases during routine handling of oil. Visual checks for leaks before, during, and after material transfers provide operating personnel with the opportunity to contain releases due to faulty equipment, and to implement proper repair measures. UMD employs delivery procedures designed to prevent accidental spills and releases during the bulk transfer of oils and other materials.

- **Bulk oil is delivered using the following procedures:**
  - Loading and unloading is only performed under the supervision of campus personnel responsible for ensuring that proper procedures are followed.
  - Oil absorbent and containment materials must be available and sufficient to prevent spills from reaching navigable waters.
  - Wheel chocks or a vehicle break interlock system must be employed to prevent vehicles from departing before complete disconnection of flexible or fixed oil transfer lines or hoses.
  - Bonding and grounding devices must be connected before loading or unloading flammable oils from vehicle.
  - Campus personnel and pump operator/driver must check all connections for tightness and that all fittings and hoses are in a safe and operable condition before beginning any pumping of oil.
  - Where connections are not located within a secondary containment structure, a drip pan must be placed below the connection during the filling process.
  - The operator of the pump shall not leave the pumping process unmanned for any reason during the filling process and shall remain within close proximity (five feet) of the shutoff valve at all times.
  - When a high-level alarm is not operational or available on the container being filled, an employee must gauge the container during filling operations and be in constant communication with the pump operator.
  - After pumping is complete, the pump operator must check that all shutoff valves are locked in the closed position and there is no leakage.
  - Prior to filling and departure of any tank car or tank truck, the lowermost drain and all outlets of such vehicles must be closely inspected for discharges, and if necessary, ensure that they are tightened, adjusted, or replaced to prevent liquid discharge.
  - Connections of oil tank or campus piping must be securely capped, plugged, or sealed when not in service or when in standby service for an extended time.

- **Bulk Oil Collection/Pickup**
    - Used petroleum oils generated during maintenance activities transferred by UMD personnel to the used oil storage tanks. Collected used oil is periodically picked up via trucks that park adjacent the used oil tank. In general, the operator collects the used oils using a hand-held nozzle and flexible tubing from a vacuum tanker connected directly to the truck.

- **Container Loading/Unloading Procedures**
    - Portable containers (drums, totes) of oils and oil-based products are generally delivered at the Severn Building (#810), the Central Heating Plant (#001), and the Shuttle Bus Facility (#424). The drums are then taken directly to the point of use by hand cart or fork lift. The delivery locations are strategically located that in the event of a release, response equipment would be employed, and the release would be contained as close to the source as possible.

- **Portable containers are loaded and unloaded using the following procedures:**
    - All containers must be closed and sealed prior to moving.
    - No obstacles should block the unloading area or delivery paths.
    - Safe lifting techniques must be used.
    - Loads must not be stacked on the transport mechanism or vehicle in a manner that blocks the operator's vision.
    - Heavy objects should be loaded at the bottom of a forklift, hand truck, or pallet jack.
    - Bulky or awkward items should be secured while in transport.
    - Only trained and authorized personnel are allowed to operate a forklift or use other powered material-handling equipment.
    - Containerized materials are stacked and stored properly in a stable and secure manner.

- **Elevator Hydraulic Oil Tanks**:
    - Oil is rarely added to or removed from these small tanks. When required, addition of oil is performed manually using small containers by qualified elevator service technicians. Removal of oil would only be required in the event of tank repair or replacement. In this event, oil would be manually removed from the tank by portable pumps and placed in containers.

- **Electrical Transformers**
    - Typically, oil is neither added to nor removed from transformers except in the event of repairs. Addition or removal of oil from transformers is only performed by trained and qualified electricians.

UNLOADING CHECKLIST

BULK AND SMALL TRUCK DELIVERIES

Indicate Delivery Type:

Bulk Oil Delivery **[ ]**
Small Truck Delivery **[ ]**

Delivery Date: _____

SDS available? yes__ no__ Tank to be loaded: _____

Tank level before unloading	(A)_____	gallons
Tank level after unloading	(B)_____	gallons
Total unloaded [(C) = (B) – (A)]	(C)_____	gallons

1) Working radio readily available	yes____	no_____	
2) SDS on-hand during unloading	yes____	no_____	
3) Danger tape used to block off area	yes____	no_____	
4) Storage tanks and related piping inspected	yes____	no_____	
5) Drain blockage equipment deployed	yes____	no_____	
6) Wheels Chocked	yes____	no_____	
7) Grounded (flammable materials only)	yes____	no_____	N/A___
8) 5-gallon drip bucket under discharge hose	yes____	no_____	
9) Absorbent materials readily available	yes____	no_____	
10) Valves closed when unloading is complete	yes____	no_____	
11) Respirator nearby	yes____	no_____	
12) Any leaks or spills (if yes, provide details in comments)	yes____	no_____	

Comments: _____

_____

Signature Printed Name/Date

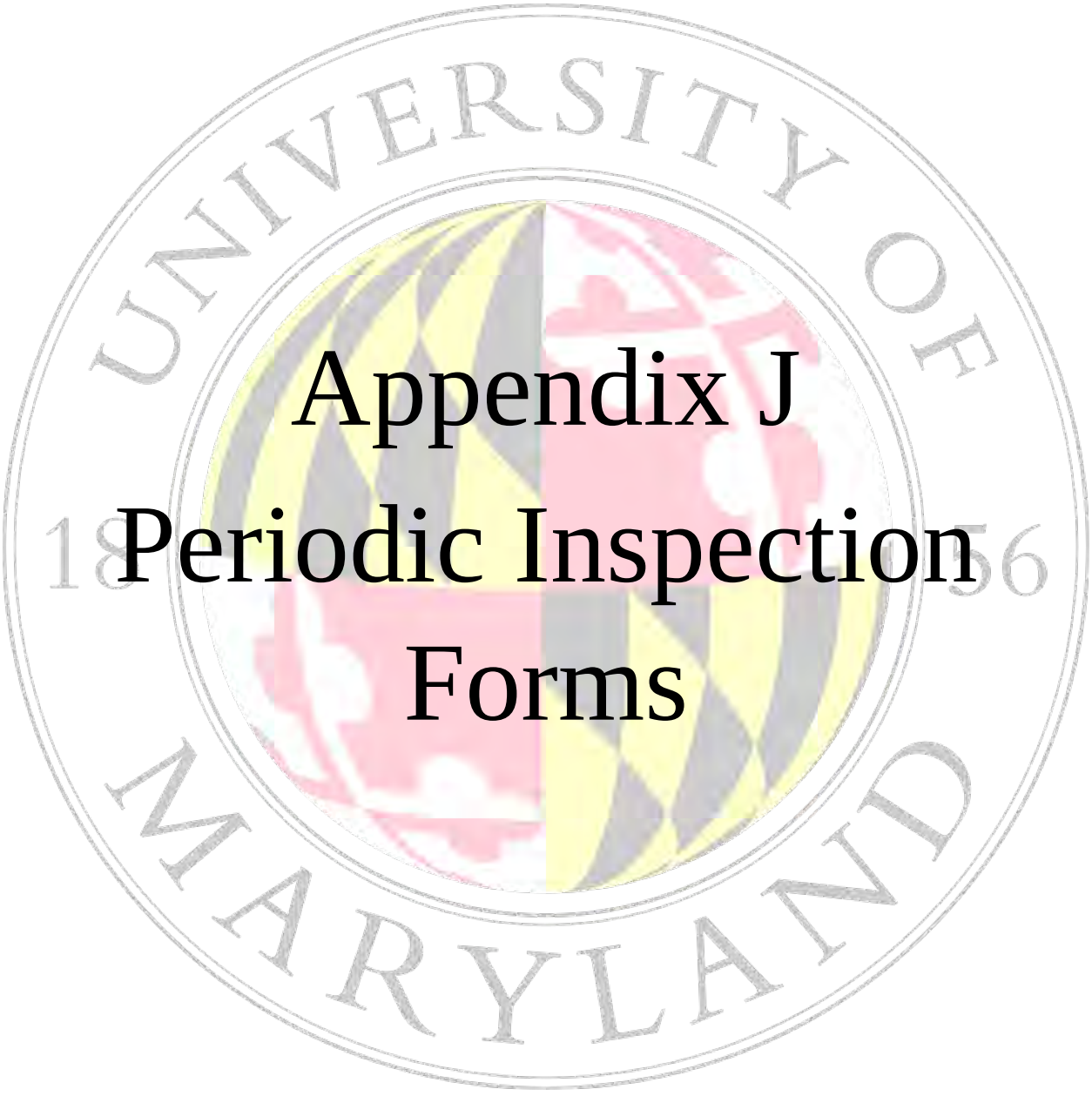
_____ _____

Acknowledgement of receipt of materials (UMD Employee)

Signature Printed Name/Date

_____ _____

Acknowledgement of transfer of materials (Product Delivery Representative)



Appendix J
Periodic Inspection Forms

Aboveground Storage Tank (AST) Periodic Inspection Checklist

Site:	**Notes**:
Map Number: **Building**: **Containment**: **Type:**	**Tank ID**: **Contents**: **Capacity**:

Additional Information:
(check all that apply) _____

□ In Contact with Ground □ Not in Contact with Ground □ Cathodic Protection Installed
□ Equipped with Manway □ Not Equipped with Manway

Inspection Requirements		
Status	**Item to check**	**Comments**
Month 1 - Monthly Inspection Inspector: Date: _____		
	Tank Condition	
	Secondary containment	
	Pipe/hose connections	
Month 2 - Monthly Inspection Inspector: Date: _____		
	Tank Condition	
	Secondary containment	
	Pipe/hose connections	
Month 3 - Quarterly Inspection Inspector: Date: _____		
	Tank Condition	
	Secondary containment	
	Pipe/hose connections	
	Exterior Coating	
	Primary and emergency vents	
Month 4 - Monthly Inspection Inspector: Date: _____		
	Tank Condition	
	Secondary containment	
	Pipe/hose connections	
Month 5 - Monthly Inspection Inspector: Date: _____		
	Tank Condition	
	Secondary containment	
	Pipe/hose connections	
Month 6 - Quarterly Inspection Inspector: Date: _____		
	Tank Condition	
	Secondary containment	
	Pipe/hose connections	
	Exterior Coating	
	Primary and emergency vents	

Aboveground Storage Tank (AST) Periodic Inspection Checklist

Month 7 - Monthly Inspection Date: _____
Inspector:

	Tank Condition	
	Secondary containment	
	Pipe/hose connections	

Month 8 - Monthly Inspection Date: _____
Inspector:

	Tank Condition	
	Secondary containment	
	Pipe/hose connections	

Month 9 - Quarterly Inspection Date: _____
Inspector:

	Tank Condition	
	Secondary containment	
	Pipe/hose connections	
	Exterior Coating	
	Primary and emergency vents	

Month 10 - Monthly Inspection Date: _____
Inspector:

	Tank Condition	
	Secondary containment	
	Pipe/hose connections	

Month 11 - Monthly Inspection Date: _____
Inspector:

	Tank Condition	
	Secondary containment	
	Pipe/hose connections	

Month 12 - Annual Inspection/Annual Photo Date: _____
Inspector:

	Tank Condition	
	Secondary containment	
	Pipe/hose connections	
	Exterior Coating	
	Primary and emergency vents	
	Test Level Gauges	
	Emergency vents, O-rings, and gaskets	
	Tank supports	
	Tank foundation	

Inspector: _____ Date: _____

Comments:

Notes:

-Under Tank Conditions

Identify any signs of leakage, rust, damage, or deterioration on the outside of the tank;
Identify any signs of leakage, rust, damage, or deterioration on the bolts, rivets, and/or seams;
Identify if vehicle protection is present;
Identify if level/gauges are working properly;
Identify if tank has proper signage;

-Under Secondary Containment

Identify if there is any water/product in interstice of double-walled tank
Identify id there is any water/product/trash in secondary containment

UNIVERSITY OF MARYLAND
QUARTERLY SPCC INSPECTION FORM-DRUMS

Drum Contents:	**No. of 55+gal drums: _____**	**Date:**		
	Containment:	**Inspector:**		
Location/Bldg. No.:	**Map No.:**	**Yes**	**No**	**N/A**
Drum surfaces show signs or leakage or spillage				
Drum is damaged, rusted or deteriorated				
Drum is not located on spill pallet or in containment				
Pumps, hoses, or valves are leaking				
Drum signage is missing, illegible or inaccurate				
Spill response kit inventory is incomplete				
Containment signage missing/damage				
Describe noted problems:				

Drum Contents:	**No. of 55+gal drums: _____**	**Date:**		
Location/Bldg. No.:	**Containment:**	**Inspector:**		
	Map No.:	**Yes**	**No**	**N/A**
Drum surfaces show signs or leakage or spillage				
Drum is damaged, rusted or deteriorated				
Drum is not located on spill pallet or in containment				
Pumps, hoses, or valves are leaking				
Drum signage is missing, illegible or inaccurate				
Spill response kit inventory is incomplete				
Containment signage missing/damage				
Describe noted problems:				

Drum Contents:	**No. of 55+gal drums: _____**	**Date:**		
Location/Bldg. No.:	**Containment:**	**Inspector:**		
	Map No.:	**Yes**	**No**	**N/A**
Drum surfaces show signs or leakage or spillage				
Drum is damaged, rusted or deteriorated				
Drum is not located on spill pallet or in containment				
Pumps, hoses, or valves are leaking				
Drum signage is missing, illegible or inaccurate				
Spill response kit inventory is incomplete				
Containment signage missing/damage				
Describe noted problems:				

Appendix K
Annual Inspection Photos

Appendix L
Training Materials

Environmental Safety, Sustainability & Risk

Spill Prevention, Control, and Countermeasures (SPCC)

UNIVERSITY OF MARYLAND

Overview

The Purpose of an SPCC Plan is to <u>prevent</u> the discharge of oil into navigable waters of the United States or adjoining shorelines as opposed to response and cleanup after a spill occurs.

The Law

Oil Pollution Prevention Rule

- **Became effective January, 1974 (revised many time with the most recent in 2011).**
- **Authority – Section 311 (j) (1) (c) of the Clean Water Act**
- **Promulgated under Title 40, CFR, Part 112**

Oil Definitions

Oil means oil of any kind or in any form, including, but not limited to:

- fats, oils, or greases of animal, fish, or marine mammal origin
- vegetable oils, including oils from seeds, nuts, fruits, or kernels;
- other oils and greases, including petroleum, fuel oil, sludge, synthetic oils, mineral oils, oil refuse, or oil mixed with wastes other than dredged spoil.

Applicability: How Much Oil?

SPCC rule applies to facilities with:

- >42,000 gallons buried
- >1,320 gallons aboveground

Containers to include:

- Bulk storage
- Oil-Filled Operational Equipment (OFOE)
- Mobile/Portable Containers
- 55 gallons or greater

Containers not included in capacity:

- Permanently Closed containers
- UST Subject to 40 CFR 280 & 281

UMD SPCC Details

- Over 80 tanks*
  - Generators, ASTs, Day Tanks
- Over 30 >55-gallon Drums*
  - Cooking oil, food grease, used oil, hydraulic fluid
- Over 100 Hydraulic Elevators
- Over 140 Transformers

*Current inventory is still growing due to finding new tanks/drums

Spill Reporting

Facilities that discharge oil to navigable waters are subject to certain federal reporting requirements.

- 40 CFR 110, Discharge of Oil Regulation
- 40 CFR 112, Oil Pollution Prevention regulation
- State laws/regulations may differ or be more restrictive

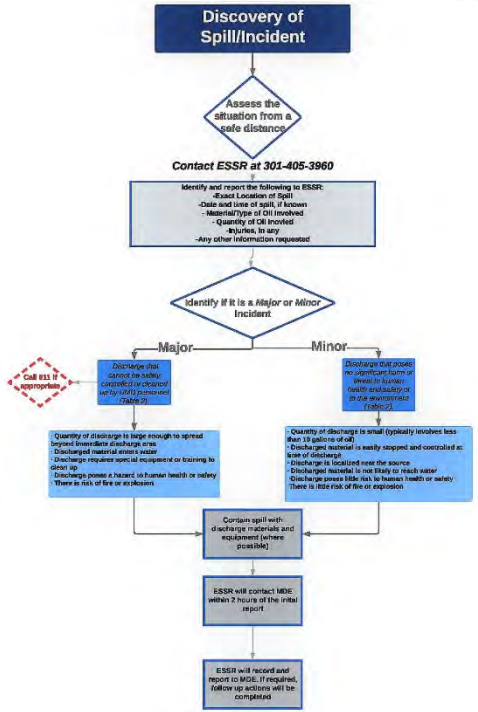
National Response Center (NRC)

- The Discharge of Oil regulation provides the framework for determining whether an oil discharge to inland and coastal waters or adjoining shorelines should be reported to the National Response Center at 1-800-424-8802
- Any person in charge of a vessel, onshore or offshore facility must notify NRC once there is knowledge of a discharge
- NRC will relay discharge information to EPA or USCG

SPCC Reporting Requirements

- Report to the EPA Regional Administrator (RA) when there is a discharge to navigable waters or adjoining shores of:
  - >1,000 Gal of oil in a single discharge
  - >42 Gal of oil in each of two discharges occurring within a 12 month period
- An owner / operator must report the discharge(s) to the EPA RA within 60 days
- All requirements found in 40 CFR112.4

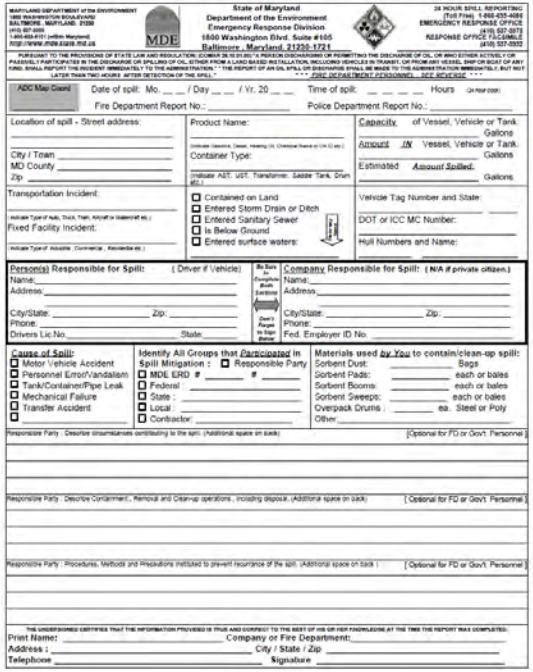
UMD Spill Reporting Procedure



Minor Discharge *Discharge that poses no significant harm or threat to human health and safety or to the environment.*	• Quantity of discharge is small (typically involves less than 10 gallons of oil) • Discharged material is easily stopped and controlled at time of discharge • Discharge is localized near the source • Discharged material is not likely to reach water • Discharge poses little risk to human health or safety • There is little risk of fire or explosion
Major Discharge *Discharge that cannot be safely controlled or cleaned up by UMD personnel.*	• Quantity of discharge is large enough to spread beyond immediate discharge area • Discharged material enters water • Discharge requires special equipment or training to clean up • Discharge poses a hazard to human health or safety • There is risk of fire or explosion

MDE Reporting Requirements

- Report to MDE Emergency Response Division (1-866-633-4686) if an oil spill or discharge of ***ANY*** quantity occurs
  - *Within **two** hours after the detection of a spill*
- Verbal report must include:
  - Time and location of discharge
  - Type of facility involved
  - Type and quantity of oil spilled
  - Assistance required
  - Name, address, telephone number of person making report
  - Other pertinent info as requested by MDE
- Within ten working days after completion of spill cleanup, a written report of the discharge must be submitted to MDE



State of Maryland
Department of the Environment
Emergency Response Division
1800 Washington Blvd. Suite #105
Baltimore , Maryland. 21230-1721

24 HOUR SPILL REPORTING
EMERGENCY RESPONSE OFFICE
(410) 537-3977
RESPONSE OFFICE FAX/EMAIL
(410) 537-3935

ADC Map Count | Date of spill: Mo. ___ / Day ___ / Yr. 20 ___ | Time of spill: ___ ___ ___ Hours
Fire Department Report No.: | Police Department Report No.:

Location of spill - Street address:
City / Town:
MD County
Zip

Product Name:
Container Type:

Capacity of Vessel, Vehicle or Tank: Gallons
Amount IN Vessel, Vehicle or Tank: Gallons
Estimated Amount Spilled: Gallons

Transportation Incident:
Fixed Facility Incident:

☐ Contained on Land
☐ Entered Storm Drain or Ditch
☐ Entered Sanitary Sewer
☐ Is Below Ground
☐ Entered surface waters:

Vehicle Tag Number and State:
DOT or ICC MC Number:
Hull Numbers and Name:

Person(s) Responsible for Spill: (Driver if Vehicle)
Name:
Address:
City/State: Zip:
Phone:
Drivers Lic No. State:

Company Responsible for Spill: (N/A if private citizen.)
Name:
Address:
City/State: Zip:
Phone:
Fed. Employer ID No.

Cause of Spill:
☐ Motor Vehicle Accident
☐ Personnel Error/Vandalism
☐ Tank/Container/Pipe Leak
☐ Mechanical Failure
☐ Transfer Accident
☐

Identify All Groups that Participated in Spill Mitigation : ☐ Responsible Party
☐ MDE ERD # ___ # ___
☐ Federal:
☐ State :
☐ Local :
☐ Contractor:

Materials used by You to contain/clean-up spill:
Sorbent Dust: Bags
Sorbent Pads: each or bales
Sorbent Booms: each or bales
Sorbent Sweeps: each or bales
Overpack Drums : ea. Steel or Poly
Other:

Responsible Party - Describe circumstances contributing to the spill. (Additional space on back) [Optional for FD or Gov't. Personnel]

Responsible Party - Describe Containment, Removal and Clean-up operations , including disposal. (Additional space on back) [Optional for FD or Gov't. Personnel]

Responsible Party - Procedures, Methods and Precautions instituted to prevent recurrance of the spill. (Additional space on back) [Optional for FD or Gov't. Personnel]

THE UNDERSIGNED CERTIFIES THAT THE INFORMATION PROVIDED IS TRUE AND CORRECT TO THE BEST OF HIS OR HER KNOWLEDGE AT THE TIME THE REPORT WAS COMPLETED.

Print Name: Company or Fire Department:
Address : City / State / Zip
Telephone Signature

Secondary Containment

- All areas and equipment with the potential for a discharge are subject to general secondary containment provision, 112.7(c).
  - Oil-filled operational equipment
  - Loading/unloading areas
  - Piping
  - Mobile refuelers/ non-transportation related tank trucks
- Purpose is to contain or divert to prevent discharge: dikes, berms, retaining walls, curbing, drip pans, sumps, culverting, gutters, weirs, booms, spill diversion ponds, retention ponds, sorbent

Secondary Containment

Active secondary containment is when an employee personally contains a spill,

- Deploying drain covers before a spill happens.
- Deploying drain covers after a spill has occurred, but before the spill reaches a drain
- Using a spill kit in the event of an oil discharge
- Closing a gate valve prior to a discharge

Passive secondary containment does not require deployment or the action of an employee or employees to contain a spill.

- Placing containment pallets or decks under drums and other containers
- Surrounding machines and containers with berms
- Erecting retaining walls around machines and containers
- Placing drip trays under leaky machines and containers

Specific (Sized) Provision

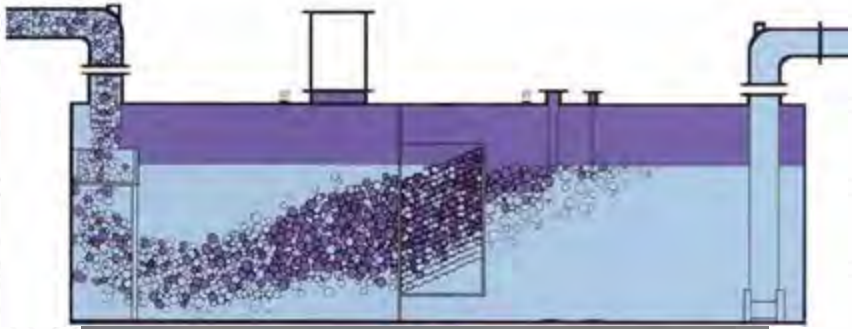
- To address the potential of oil discharges from areas of a facility where oil is stored or handled, containment specified by SPCC rule
- 40 CFR112.8, requirements are intended to address a major container failure
  - Bulk storage containers, mobile/portable containers, treatment
  - Minimum containment capacity
  - Largest single compartment
  - Sufficient freeboard for precipitation, if outdoors

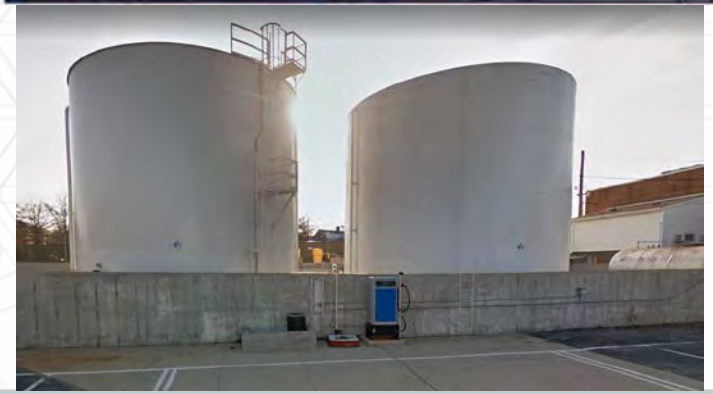
Mobile/Portable Containers

- Drums placed on spill pallets
- Mobile re-fuelers mounted in a truck with a spray liner
- Fuel trucks parked within bermed area

Loading/Unloading Area Containment

- Dikes, berms, or retaining walls sufficiently impervious to contain oil;
- Curbing or drip pans;
- Sumps and collection systems (OWS);
- Culverting, gutters, or other drainage systems;
- Weirs, booms, or other barriers;
- Spill diversion ponds;
- Retention ponds; or
- Sorbent materials.





Oil – Filled Operational Equipment

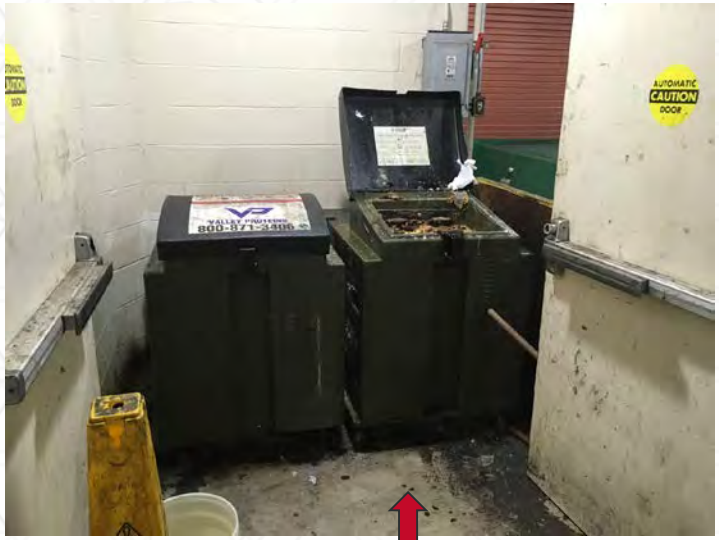
- Equipment that includes an oil storage container (or multiple containers) in which the oil is present solely to support the function of the apparatus or the device.
  - Does not include oil-filled manufacturing equipment (flow-through process)
  - Examples: lube oil reservoirs, hydraulic elevators, transformers
- Piping is considered a component if it is solely used to facilitate operation of the equipment device.

Inspection & Testing 112.8(c)(6)

- Prevent discharge of oil caused by leaks, corrosion, brittle fracture, overfill, other forms of container/equipment failure
- AST are tested or inspected in accordance with industry standards
  - Integrity tests include: visual inspection, hydrostatic testing, radiographic testing, ultrasonic testing, acoustic emissions testing, or other systems of non-destructive testing.

Visual inspection:

Spillage



Poor housekeeping: Spillage, unlabeled contained with grease in it

Visual Inspection:

Remember!

- **All actions (visual inspection or testing) must be documented & maintained**
  - Some standards require records to be maintained for over 3 years for comparison reasons
  - Records are kept on the shared U drive in addition to the hard copies maintained at Seneca.

- **Know objective: the tank IS or IS NOT suitable for continued use**

SPCC Plan Requirements

Each Plan Must Include:

1. **Description of physical layout and a facility diagram.**
2. **Key personnel contact list and phone numbers for the facility response coordinator, cleanup contractors, all appropriate federal, state, local agencies to contact.**
3. **Prediction of direction, rate of flow, and total quantity of oil that COULD be discharged if the potential for equipment discharge exists.**
4. **Description of containment and/or diversionary structures to prevent discharge from reaching navigable waters.**
5. **Description of site specific spill prevention and control measures in place.**

Additional Requirements

- Plan must have MANAGEMENT APPROVAL (signature)
- Plan must be prepared under the direct supervision of a P.E. (stamped)
- Plan must be maintained on-site AVAILABLE AT ALL TIMES for review by EPA/MDE.
  - Plan is maintained at the Seneca Building
- Key Facility Personnel must be trained annually. *FOLLOW SOPs for any response actions!!!*
- Plan must include periodic INSPECTIONS.
- Plan must be revised/updated to reflect facility changes.
- Plan required to be reviewed/revised at least every 5 YEARS.

How to Reach Us

- www.essr.umd.edu
- Call 301-405-3960 during business hours
- Call UMPD Communications at 301-405-3555 to reach on-call ESSR staff after business hours.
- Email safety@umd.edu

Appendix M
Dike Drainage Instructions and Log

DEPARTMENT OF
ENVIRONMENTAL SAFETY,
SUSTAINABILITY & RISK

Seneca Building
4716 Pontiac Street, Suite 0103
College Park, MD 20742
301.405.3960 TEL 301.314.9294 FAX

Secondary Containment Drainage Log

DEPARTMENT OF
ENVIRONMENTAL SAFETY,
SUSTAINABILITY & RISK

Seneca Building
4716 Pontiac Street, Suite 0103
College Park, MD 20742
301.405.3960 TEL 301.314.9294 FAX

Do NOT remove the drain plug

unless draining uncontaminated stormwater (no fuel or oil).

Fill out Secondary Containment Drainage Log every time water is drained (located inside spill kit container).

DEPARTMENT OF
ENVIRONMENTAL SAFETY,
SUSTAINABILITY & RISK

Seneca Building
4716 Pontiac Street, Suite 0103
College Park, MD 20742
301.405.3960 TEL 301.314.9294 FAX

Instructions: The information required on this form should be recorded when water from secondary containment is drained into a storm drain or the environment. **Any fuel or oil must be cleaned up prior to discharging water.** Keep all records of drainage on file for at least 3 years.

Facility Location: _____

Date of Drainage	Time	Oil or Fuel Present? (if yes, record amount removed)	Name