

II. Suggested Notice of Intent (NOD) Form

1. General facility information. Please provide the following information about the facility.

a) Name of facility:		Mailing Address for the Facility: 640 Memorial Drive; Cambridge, MA 02139	
b) Location Address of the Facility (if different from mailing address):		Facility Location longitude: 42.35 latitude: 71.12	Type of Business: Construction Site Facility SIC codes:
c) Name of facility owner: MIT 640 Memorial Leasehold LLC Owner's Tel #: 617-452-3039 Address of owner (if different from facility address) 238 Main Street, Suite 200 Cambridge, MA 02142 Owner is (check one): 1. Federal _____ 2. State _____ 3. Tribal _____ 4. Private <input checked="" type="checkbox"/> 4. Other _____ (Describe) Legal name of Operator, if not owner: Turner Construction Company Operator Contact Name: Van Duros Operator Tel Number: (617) 247-6400 Fax Number: (617) 247-5466 Operator's email: vduros@tcco.com Operator Address (if different from owner) Two Seaport Lane; Boston, MA 02110		Owner's email: mmccaffrey@mitimco.org Owner's Fax #:	
d) Attach a topographic map indicating the location of the facility and the outfall(s) to the receiving water. Map attached? <input checked="" type="checkbox"/>			
e) Check Yes or No for the following: 1. Has a prior NPDES permit been granted for the discharge? Yes _____ No <input checked="" type="checkbox"/> If Yes, Permit Number: _____ 2. Is the discharge a "new discharge" as defined by 40 CFR Section 122.22? Yes <input checked="" type="checkbox"/> No _____ If Yes, Permit Number _____ 3. Is the facility covered by an individual NPDES permit? Yes _____ No <input checked="" type="checkbox"/> If Yes, Permit Number _____ 4. Is there a pending application on file with EPA for this discharge? Yes _____ No <input checked="" type="checkbox"/> If Yes, date of submittal: _____			

2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed)

a) Name of receiving water into which discharge will occur: Charles River
State Water Quality Classification: Freshwater: B Marine Water:

b) Describe the discharge activities for which the owner/applicant is seeking coverage:

1. Construction dewatering of groundwater intrusion and/or storm water accumulation.
2. Short-term or long-term dewatering of foundation sumps.
3. Other.

c) Construction Dewatering of Groundwater Intrusion (See Attached Report)
Number of outfalls 1

For each outfall:

d) Estimate the maximum daily and average monthly flow of the discharge (in gallons per day - GPD). Max Daily Flow 216,000 GPD
Average Monthly Flow 144,000 GPD

e) What is the maximum and minimum monthly pH of the discharge (in s.u.)? Max pH 8.5 Min pH 6.7

f) Identify the source of the discharge (i.e. potable water, surface water, or groundwater). If groundwater, the facility shall submit effluent test results, as required in Section 4.4.5 of the General Permit. Groundwater

g) What treatment does the wastewater receive prior to discharge?

h) Is the discharge continuous? Yes No If no, is the discharge periodic (P) (occurs regularly, i.e. monthly or seasonally, but is not continuous all year) or intermittent (I) (occurs sometimes but not regularly) or both (B) B

If (P), number of days or months per year of the discharge and the specific months of discharge ;
If (I), number of days/year there is a discharge ;

Is the discharge temporary? Yes No

If yes, approximate start date of dewatering 09/01/2010 approximate end date of dewatering 09/01/2011

i) Latitude and longitude of each discharge within 100 feet (See http://www.epa.gov/tri/report/siting_tool): Outfall 1: long lat ;
Outfall 2: long 42.35 lat 71.12 ; Outfall 3: long lat .

j) If the source of the discharge is potable water, please provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water and attach any calculation sheets used to support stream flow and dilution calculations cfs
(See Appendix VII for equations and additional information)

MASSACHUSETTS FACILITIES: See Section 3.4 and Appendix I of the General Permit for more information on Areas of Critical Environmental Concern (ACEC):

k) Does the discharge occur in an ACEC? Yes _____ No
 If yes, provide the name of the ACEC: _____

3. Contaminant Information

- a) Are any pH neutralization and/or dechlorination chemicals used in the discharge? If so, include the chemical name and manufacturer: maximum and average daily quantity used as well as the maximum and average daily expected concentrations (mg/l) in the discharge, and the vendor's reported aquatic toxicity (NOAEL and/or LC50 in percent for aquatic organism(s)). NO
- b) Please report any known remediation activities or water-quality issues in the vicinity of the discharge. See attached Report

4. Determination of Endangered Species Act Eligibility: Provide documentation of ESA eligibility as required at Part 3.4 and Appendices III and IV. In addition, respond to the following questions.

- a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes _____ No
- b) Has any consultation with the federal services been completed? Yes _____ No
- c) Is consultation underway? Yes _____ No
- d) What were the results of the consultation with the U.S. Fish and Wildlife Service and/or NOAA Fisheries Service (check one): a "no jeopardy" opinion _____ or written concurrence _____ on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat.
- e) Which of the five eligibility criteria listed in Appendix 2, Section B (A,B,C,D, or E) have you met? A
- f) Please attach a copy of the most current federal listing of endangered and threatened species, found at USF&W website.

5. Documentation of National Historic Preservation Act requirements: Please respond to the following questions:

- a) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility site or in proximity to the discharge? Yes _____ No
- b) Have any State or Tribal historic preservation officers been consulted in this determination? Yes _____ or No If yes, attach the results of the consultation(s).
- c) Which of the three National Historic Preservation Act requirements listed in Appendix 3, Section C (1.2-03) have you met? 1

6. Supplemental Information: Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit

7. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22 (see below) including the following certification:

I certify under penalty of law that (1) no biocides or other chemical additives except for those used for pH adjustment and/or dechlorination are used in the dewatering system; (2) the discharge consists solely of dewatering and authorized pH adjustment and/or

FIGURE 1



Geotechnical Engineers

2269 Massachusetts Avenue
Cambridge, MA 02140
617/868-1420
617/868-1423 (Fax)



SCALE 1:25,000

PROJECT LOCATION PLAN

640 MEMORIAL DRIVE

CAMBRIDGE

MASSACHUSETTS



COMMENTS TO THE
PROTECTIVE LOCATION PLAN

F:\WP5\REPORTS\4780-DGP Application.wpd
WJB/ada/ff

Enclosures

Amy D. Apfelbaum, P.E.

William J. Burns

McPHAIL ASSOCIATES, INC.

Very truly yours,

We trust that the above satisfies your present requirements. Should you have any questions or comments concerning the above, please do not hesitate to contact us.

Thomas J. Fennick, P.E., L.S.P.

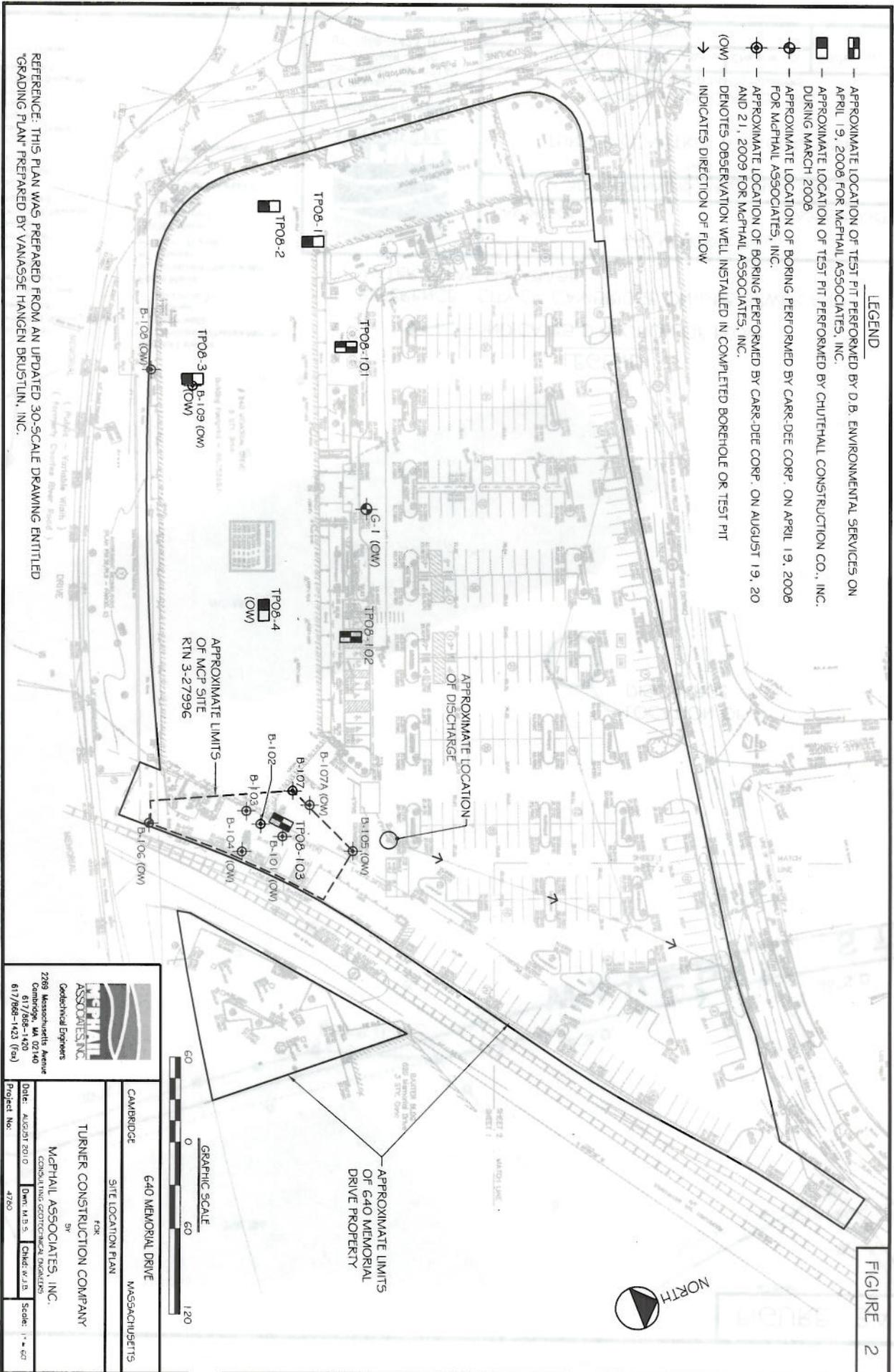
Geotechnical Engineers

ASSOCIATES, INC.



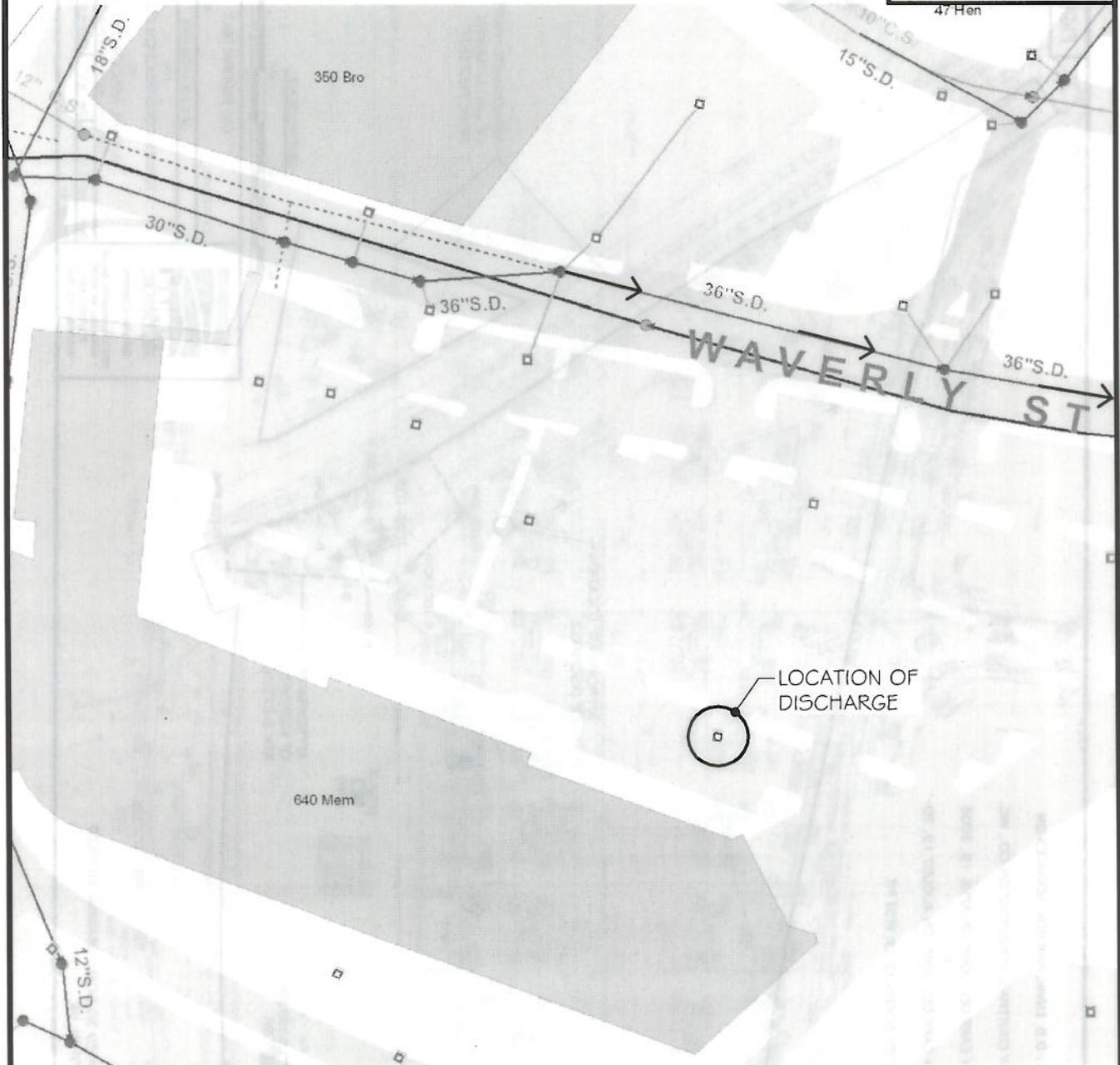
US EPA
Massachusetts DEP
August 27, 2010
Page 8

- LEGEND**
- ☐ - APPROXIMATE LOCATION OF TEST PIT PERFORMED BY D.B. ENVIRONMENTAL SERVICES ON APRIL 19, 2009 FOR MCPHAL ASSOCIATES, INC.
 - ◻ - APPROXIMATE LOCATION OF TEST PIT PERFORMED BY CHUTEHAL CONSTRUCTION CO., INC. DURING MARCH 2008
 - ⊕ - APPROXIMATE LOCATION OF BORING PERFORMED BY CARR-DEE CORP. ON APRIL 19, 2009 FOR MCPHAL ASSOCIATES, INC.
 - ⊙ - APPROXIMATE LOCATION OF BORING PERFORMED BY CARR-DEE CORP. ON AUGUST 19, 2009 AND 21, 2009 FOR MCPHAL ASSOCIATES, INC.
 - (OW) - DENOTES OBSERVATION WELL INSTALLED IN COMPLETED BOREHOLE OR TEST PIT
 - - INDICATES DIRECTION OF FLOW



REFERENCE: THIS PLAN WAS PREPARED FROM AN UPDATED 30-SCALE DRAWING ENTITLED "GRADING PLAN" PREPARED BY VANASSE HANGEN BRUSTLIN, INC.

FIGURE 3A



LOCATION OF DISCHARGE

LEGEND

← — INDICATES DIRECTION OF FLOW

REFERENCE: CITY OF CAMBRIDGE ON-LINE SEWER AND WATER ATLAS DATABASE.

FILE NAME: PHASE I TO 4780-E03A_E03D

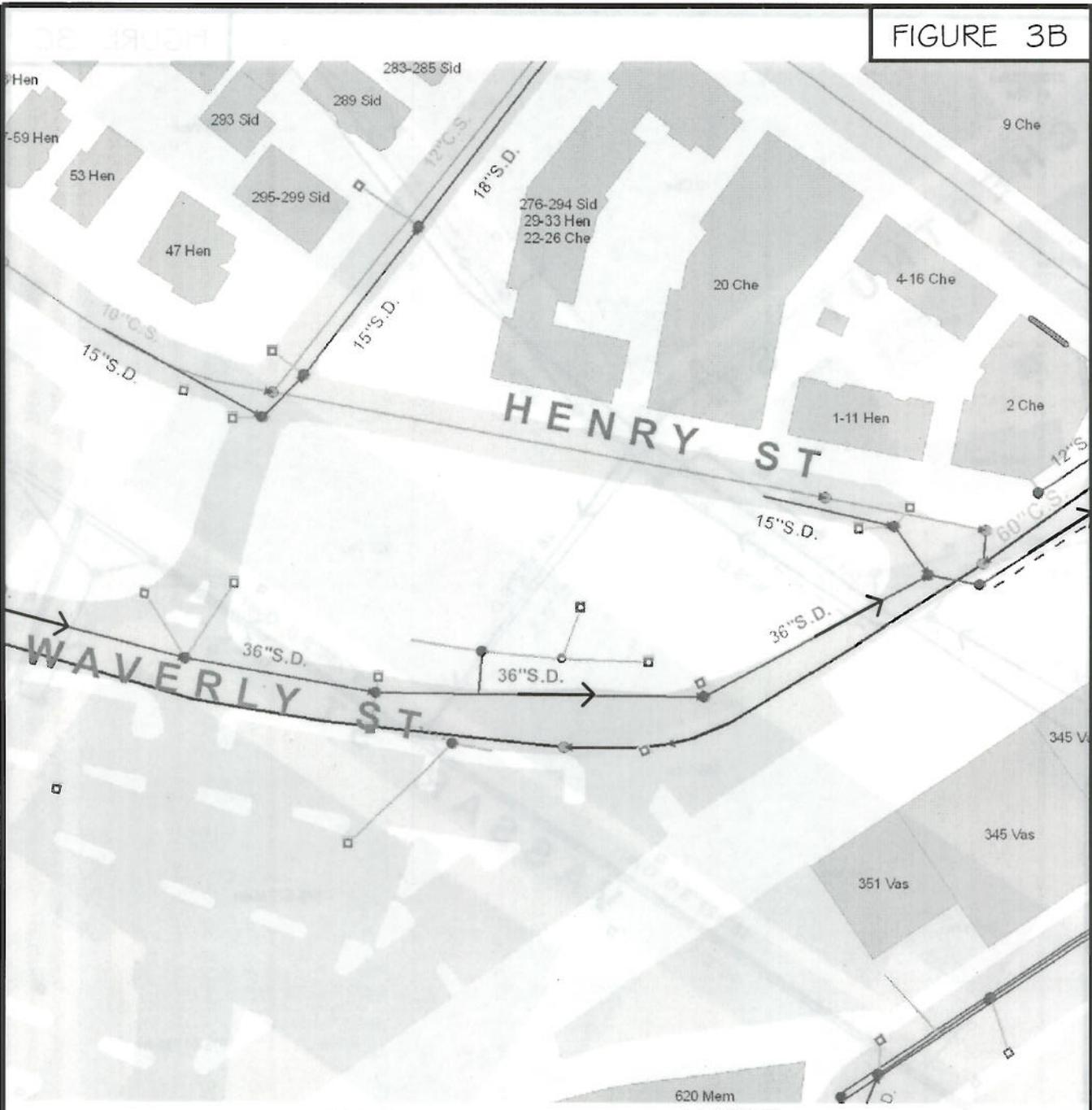
- Outfalls**
 - ⊗ Stormwater
 - ⊗ Combined Sewer Overflow
 - ⊗ Abandoned
- Pumping Structures**
 - ⊕ Pump Station
 - ⊕ Lift Station
- Manholes**
 - Stormwater
 - Sewage
 - Combined Sewage
 - Abandoned
- Lampoles**
 - Stormwater
 - Sewage
- Catchbasins**
 - ▭ Standard Sump
 - ▭ Drop Inlet
 - ▭ Area Drain
 - ▭ Drywell
 - ▭ Oil/Water Separator
 - ▭ Abandoned
 - Trench Drains
- Service Laterals**
 - Combined Wastewater, In
 - Stormwater
 - Sewage
 - Abandoned
- Force Mains**
 - Combined Wastewater
 - Sewage
 - Storm Runoff
- MWRA Mains**
 - Abandoned
 - In Service
- Underground Structures**
 - Stormwater
 - Sewage
 - Combined Sewage



McPHAIL ASSOCIATES, INC.
Geotechnical Engineers
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Cambridge, MA 02140
617/868-1420
617/868-1423 (Fax)

640 MEMORIAL DRIVE			
CAMBRIDGE		MASSACHUSETTS	
STORM DRAIN DISCHARGE FLOW PLAN			
FOR			
TURNER CONSTRUCTION COMPANY			
BY			
McPHAIL ASSOCIATES, INC.			
CONSULTING GEOTECHNICAL ENGINEERS			
Date: AUGUST 2010	Dwn: M.B.S.	Chkd: W.J.B.	Scale: N.T.S.
Project No: 4780			

FIGURE 3B



LEGEND

← — INDICATES DIRECTION OF FLOW

REFERENCE: CITY OF CAMBRIDGE ON-LINE SEWER AND WATER ATLAS DATABASE.

- Outfalls
 - Stormwater
 - ⊗ Combined Sewer Overflow
 - ⊕ Abandoned
- Pumping Structures
 - Pump Station
 - ▭ Lift Station
- Manholes
 - Stormwater
 - Sewage
 - ⊗ Combined Sewage
 - ⊕ Abandoned
- Lampholes
 - Stormwater
 - Sewage
- Catchbasins
 - Standard Sump
 - Drop Inlet
 - Area Drain
 - Drywell
 - Oil/Water Separator
 - Abandoned
- Trench Drains
 -
- Service Laterals
 - ▭ Combined Wastewater, In
 - ▭ Stormwater
 - ▭ Sewage
 - ▭ Abandoned
- Force Mains
 - ▭ Combined Wastewater
 - ▭ Sewage
 - ▭ Storm Runoff
- MWRA Mains
 - ▭ Abandoned
 - ▭ In Service
- Underground Structures
 - ▭ Stormwater
 - ▭ Sewage
 - ▭ Combined Sewage

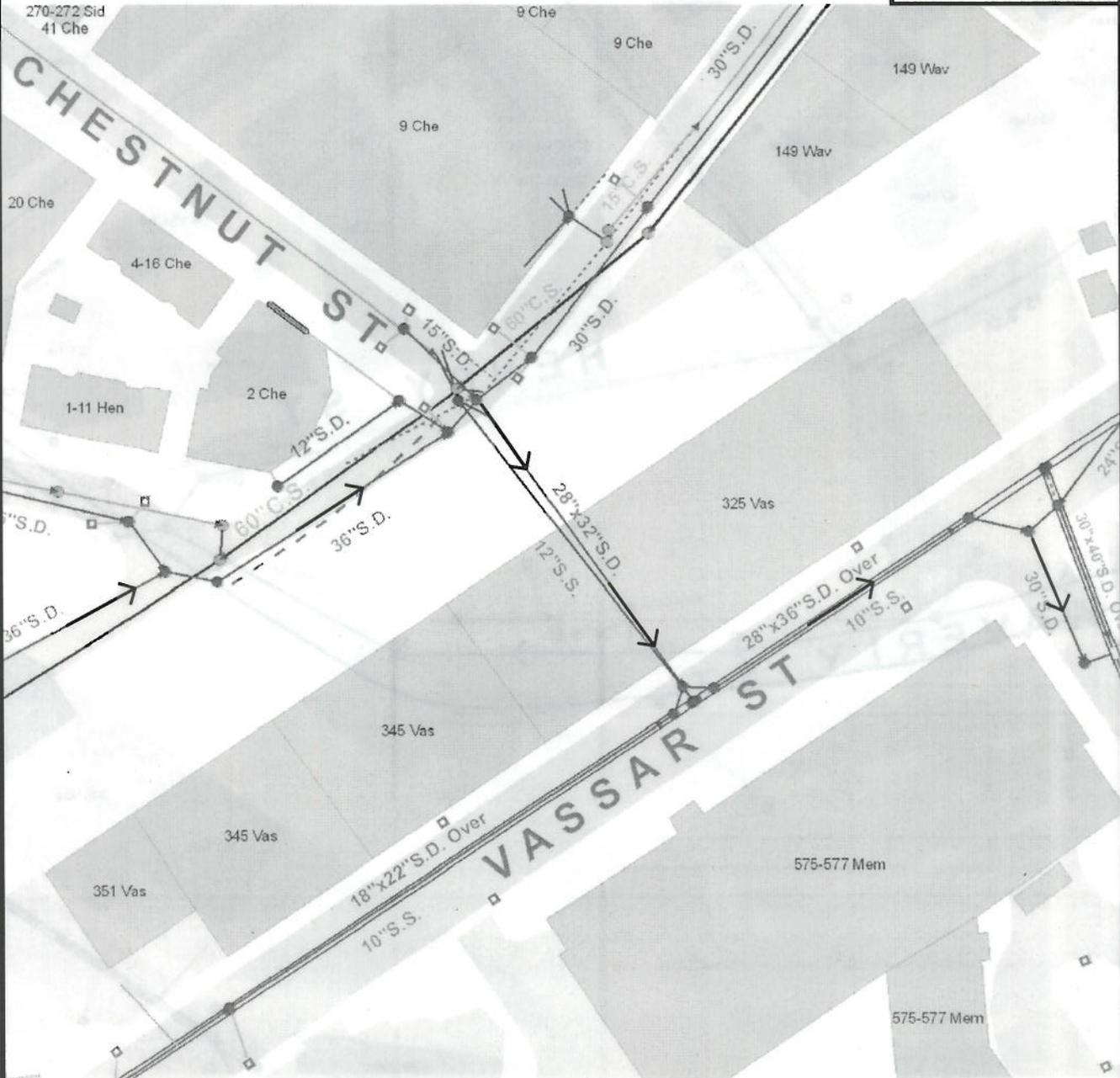
FILE NAME: PHASE I TO 4760.E03A.E03D



McPHAIL ASSOCIATES, INC.
 Geotechnical Engineers
 2269 Massachusetts Avenue
 Cambridge, MA 02140
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 617/868-1423 (Fax)

640 MEMORIAL DRIVE	
CAMBRIDGE	MASSACHUSETTS
STORM DRAIN DISCHARGE FLOW PLAN	
FOR	
TURNER CONSTRUCTION COMPANY	
BY	
McPHAIL ASSOCIATES, INC.	
CONSULTING GEOTECHNICAL ENGINEERS	
Date: AUGUST 2010	Dwn: M.B.S. Chkd: W.J.B. Scale: N.T.S.
Project No: 4780	

FIGURE 3C



LEGEND

← — INDICATES DIRECTION OF FLOW

REFERENCE: CITY OF CAMBRIDGE ON-LINE SEWER AND WATER ATLAS DATABASE.

- | | |
|---|---|
| <p>Outfalls</p> <ul style="list-style-type: none"> ⊙ Stormwater ⊙ Combined Sewer Overflow ⊙ Abandoned <p>Pumping Structures</p> <ul style="list-style-type: none"> □ Pump Station □ Lift Station <p>Manholes</p> <ul style="list-style-type: none"> ● Stormwater ● Sewage ● Combined Sewage ● Abandoned <p>Lampoles</p> <ul style="list-style-type: none"> ● Stormwater ● Sewage <p>Catchbasins</p> <ul style="list-style-type: none"> □ Standard Sump □ Drop Inlet □ Area Drain □ Drywell □ Oil/Water Separator □ Abandoned — Trench Drains | <p>Service Laterals</p> <ul style="list-style-type: none"> — Combined Wastewater, In — Stormwater — Sewage — Abandoned <p>Force Mains</p> <ul style="list-style-type: none"> — Combined Wastewater — Sewage — Storm Runoff <p>MWRA Mains</p> <ul style="list-style-type: none"> — Abandoned — In Service <p>Underground Structures</p> <ul style="list-style-type: none"> — Stormwater — Sewage — Combined Sewage |
|---|---|

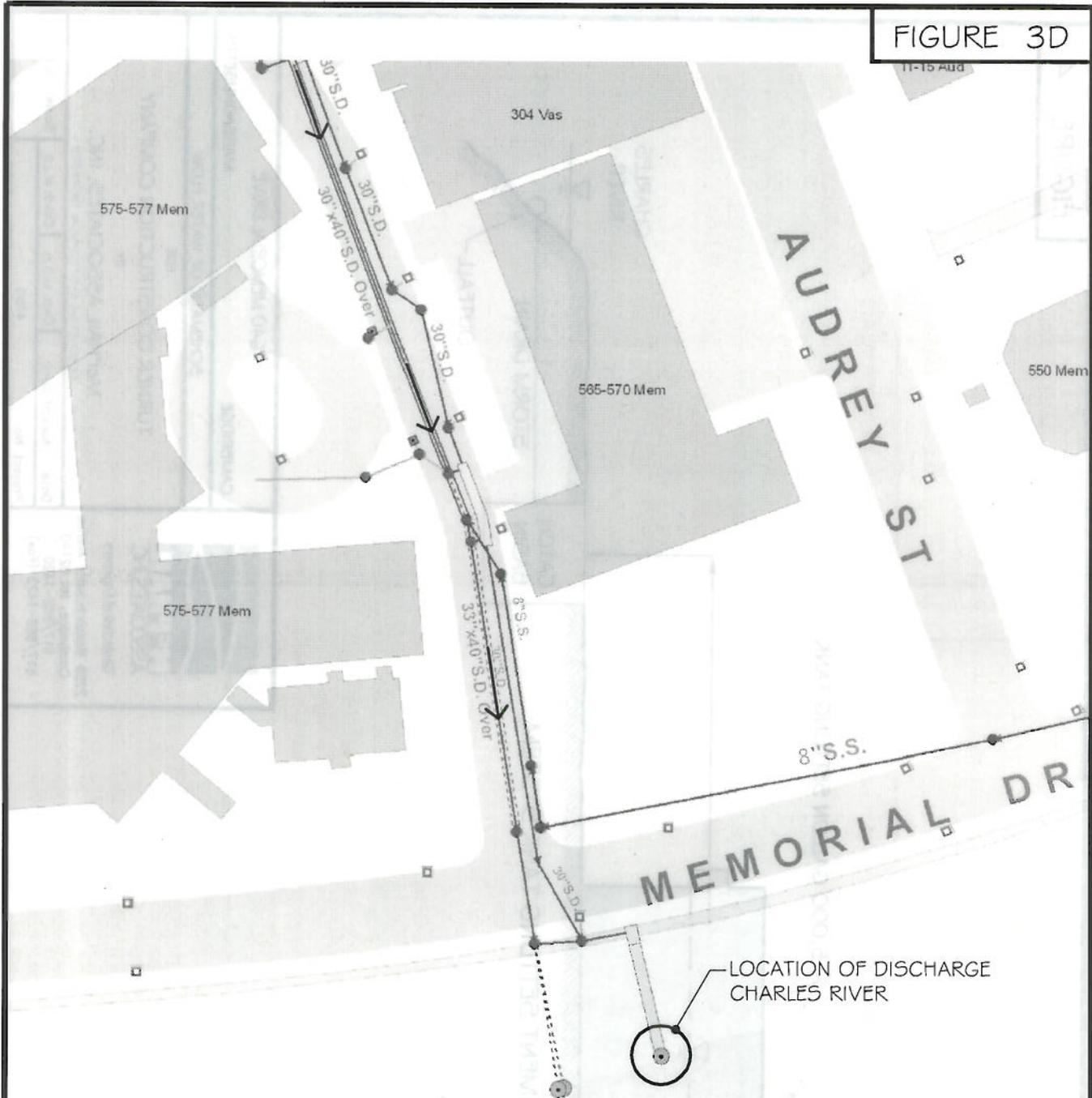
FILE NAME: PHASE I TO4780-E03A-E03D



McPHAIL ASSOCIATES, INC.
Geotechnical Engineers
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Cambridge, MA 02140
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617/868-1423 (Fax)

640 MEMORIAL DRIVE			
CAMBRIDGE		MASSACHUSETTS	
STORM DRAIN DISCHARGE FLOW PLAN			
FOR			
TURNER CONSTRUCTION COMPANY			
BY			
McPHAIL ASSOCIATES, INC.			
CONSULTING GEOTECHNICAL ENGINEERS			
Date: AUGUST 2010	Dwn: M.B.S.	Chkd: W.J.B.	Scale: N.T.S.
Project No: 4780			

FIGURE 3D



- | | |
|--|--|
| <p>Outfalls</p> <ul style="list-style-type: none"> ● Stormwater ● Combined Sewer Overflo ● Abandoned <p>Pumping Structures</p> <ul style="list-style-type: none"> □ Pump Station □ Lift Station <p>Manholes</p> <ul style="list-style-type: none"> ● Stormwater ● Sewage ● Combined Sewage ● Abandoned <p>Lampoles</p> <ul style="list-style-type: none"> ● Stormwater ● Sewage <p>Catchbasins</p> <ul style="list-style-type: none"> ● Standard Sump ● Drop Inlet ● Area Drain ● Drywell ● Oil/Water Separator ● Abandoned — Trench Drains | <p>Service Laterals</p> <ul style="list-style-type: none"> — Combined Wastewater, In — Stormwater — Sewage — Abandoned <p>Force Mains</p> <ul style="list-style-type: none"> — Combined Wastewater — Sewage — Storm Runoff <p>M/WRA Mains</p> <ul style="list-style-type: none"> — Abandoned — In Service <p>Underground Structures</p> <ul style="list-style-type: none"> — Stormwater — Sewage — Combined Sewage |
|--|--|

LEGEND
 ← — INDICATES DIRECTION OF FLOW

REFERENCE: CITY OF CAMBRIDGE ON-LINE SEWER AND WATER ATLAS DATABASE.

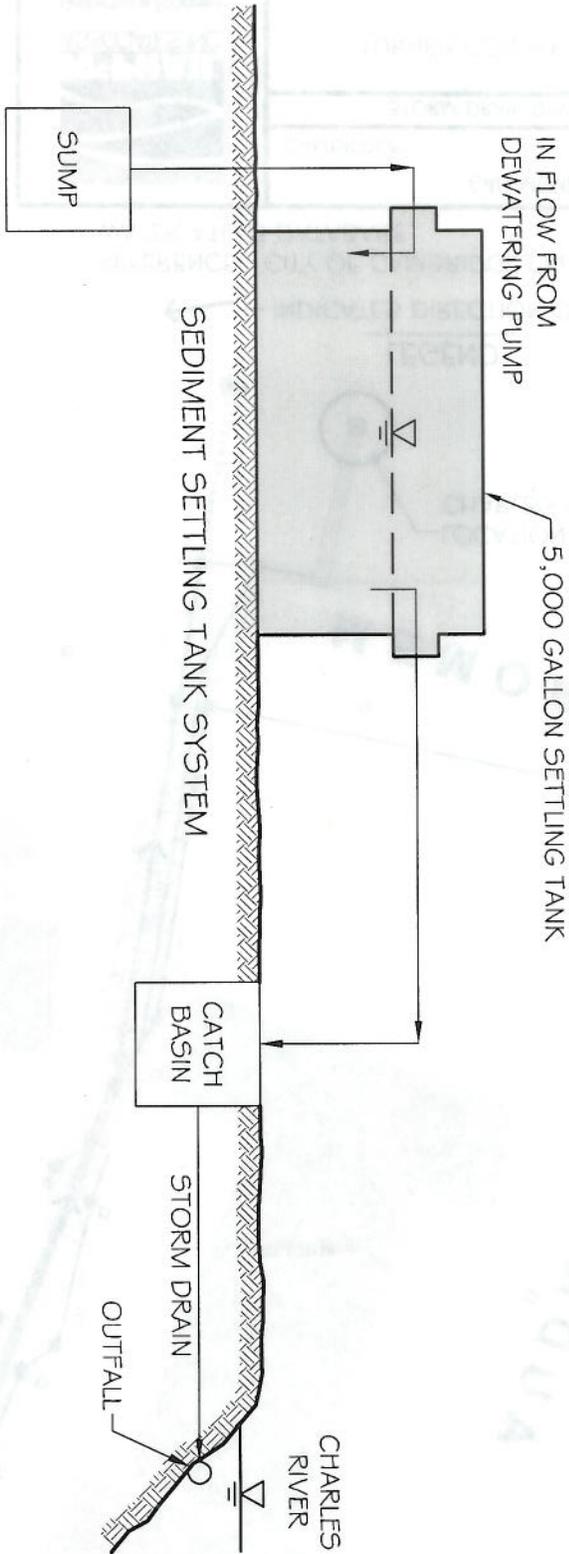
FILE NAME: PHASE I TC4760.E03A.E03D



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 Geotechnical Engineers
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 Cambridge, MA 02140
 617/868-1420
 617/868-1423 (Fax)

640 MEMORIAL DRIVE			
CAMBRIDGE		MASSACHUSETTS	
STORM DRAIN DISCHARGE FLOW PLAN			
FOR			
TURNER CONSTRUCTION COMPANY			
BY			
McPHAIL ASSOCIATES, INC.			
CONSULTING GEOTECHNICAL ENGINEERS			
Date:	AUGUST 2010	Dwn:	M.B.S.
		Chkd:	W.J.B.
Project No:	4780	Scale:	N.T.S.

FIGURE 4



 <p>McPHAIL ASSOCIATES, INC. Geotechnical Engineers</p>		<p>2269 Massachusetts Avenue Cambridge, MA 02140 617/868-1420 617/868-1423 (Fax)</p>	
<p>640 MEMORIAL DRIVE CAMBRIDGE MASSACHUSETTS</p>		<p>FOR TURNER CONSTRUCTION COMPANY</p>	
<p>SCHEMATIC OF WATER FLOW</p>			
<p>DATE: AUGUST 2010</p>		<p>BY: M.P.H. S. W.J.B.</p>	
<p>PROJECT NO: 4790</p>		<p>SCALE: N.T.S.</p>	