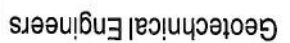


II. Suggested Notice of Intent (NOD) Form

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 email: mmccaffrey@mitnco.org	
Owner's Tel #: 617-452-3039		Owner's Fax #:	
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 ☒ 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: yduros@tcco.com			
Operator Address (if different from owner) Two Seaport Lane; Boston, MA 02110			
d) Attach a topographic map indicating the location of the facility and the outfall(s) to the receiving water. Map attached? ☒			
e) Check Yes or No for the following:			
1. Has a prior NPDES permit been granted for the discharge? Yes _____ No ☒ If Yes, Permit Number: _____			
2. Is the discharge a "new discharge" as defined by 40 CFR Section 122.22? Yes ☒ No _____ If Yes, Permit Number _____			
3. Is the facility covered by an individual NPDES permit? Yes _____ No ☒ If Yes, Permit Number _____			
4. Is there a pending application on file with EPA for this discharge? Yes _____ No ☒ If Yes, date of submittal: _____			



Copy of Payment

Massachusetts DEP Transmittal Form for Permit Application

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, or 3) 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



McPHAIL
ASSOCIATES, INC.

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



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.

Very truly yours,

McPHAIL ASSOCIATES, INC.

William J. Burns
 William J. Burns
for
 Amy D. Apfelbaum, P.E.

Enclosures

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

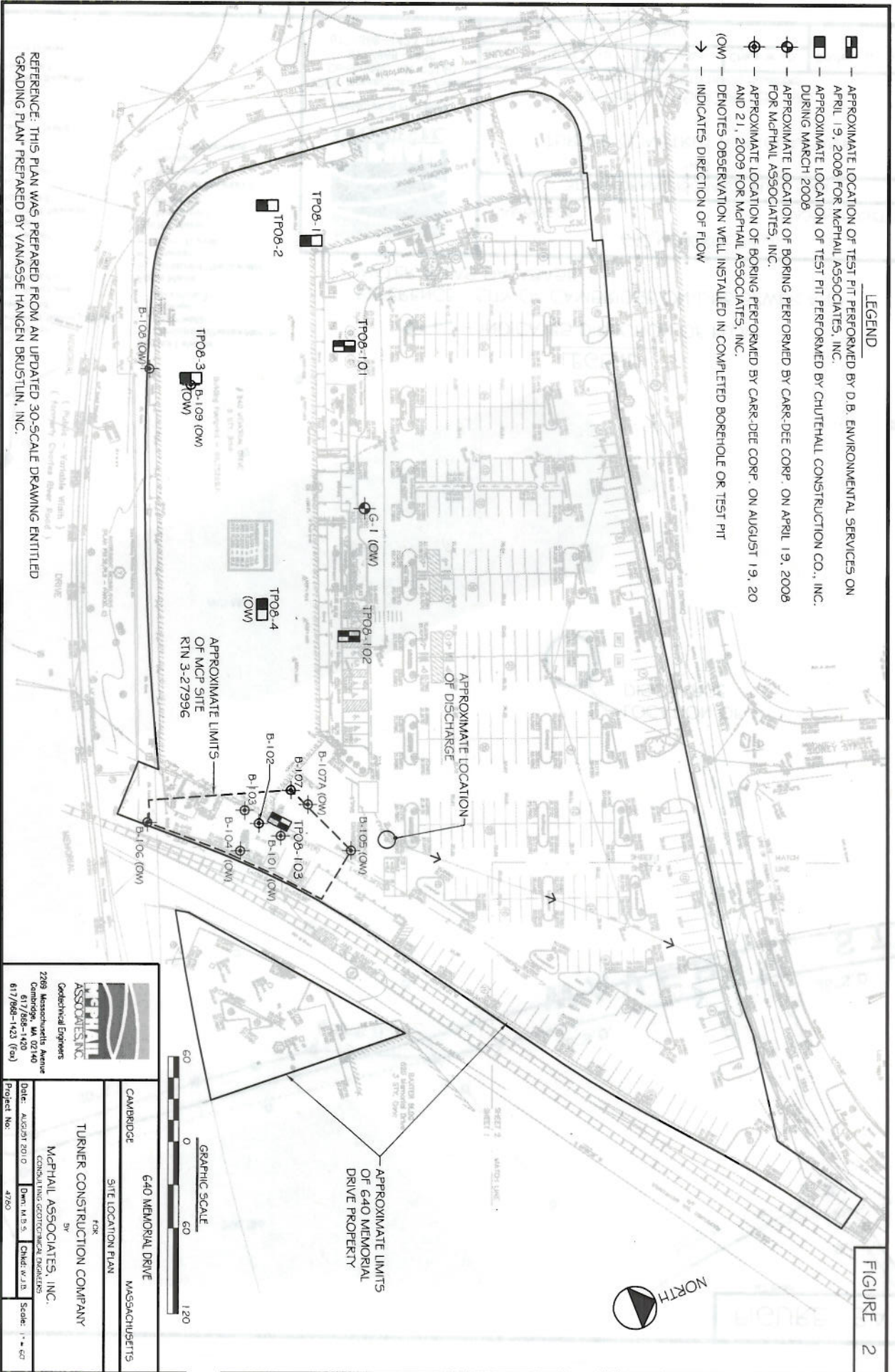
US EPA
 Massachusetts DEP
 August 27, 2010
 Page 8

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

Thomas J. Fennick

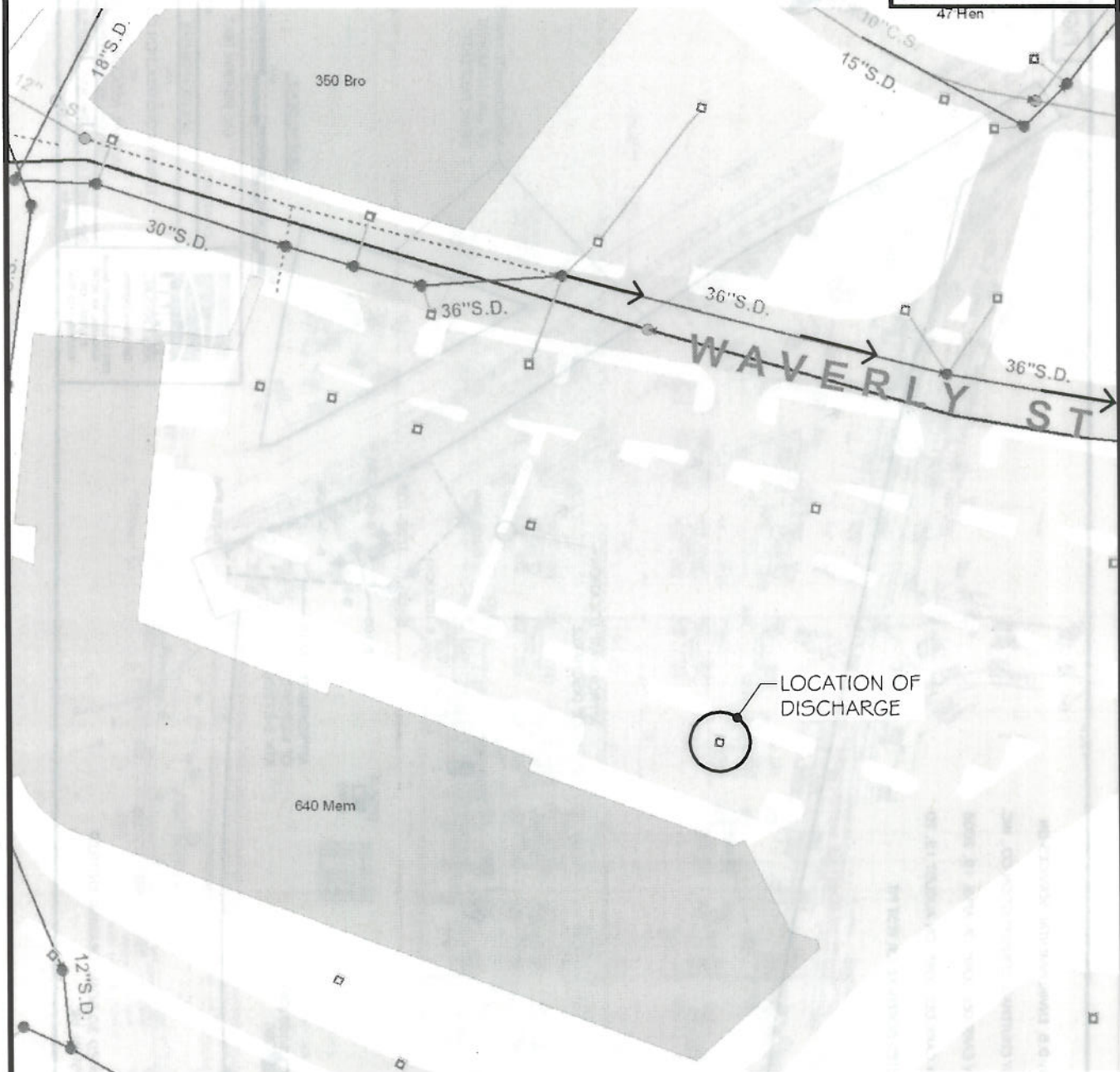
PROJECT LOCATION PLAN





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.

- | | |
|--|---|
| <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>Lampholes</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 <p>— Trench Drains</p> | <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 |
|--|---|



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640 MEMORIAL DRIVE
CAMBRIDGE MASSACHUSETTS

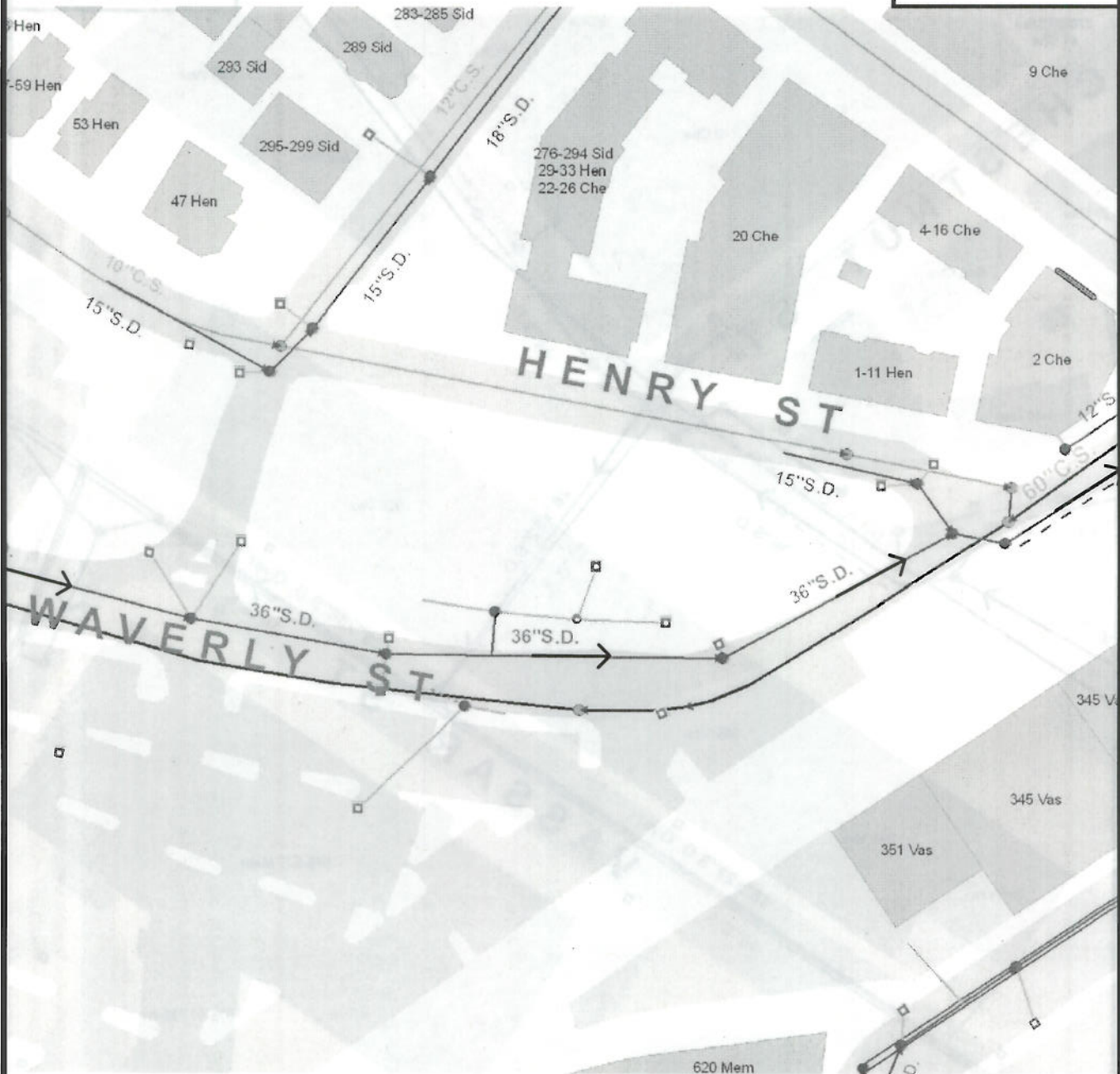
STORM DRAIN DISCHARGE FLOW PLAN

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
Mannholes
• 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 Service
• Stormwater
• Sewage
• Abandoned
Force Mains
• Combined Wastewater
• Sewage
• Storm Runoff
MWRA Mains
• Abandoned
• In Service
Underground Structures
• Stormwater
• Sewage
• Combined Sewage |
|---|--|



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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.

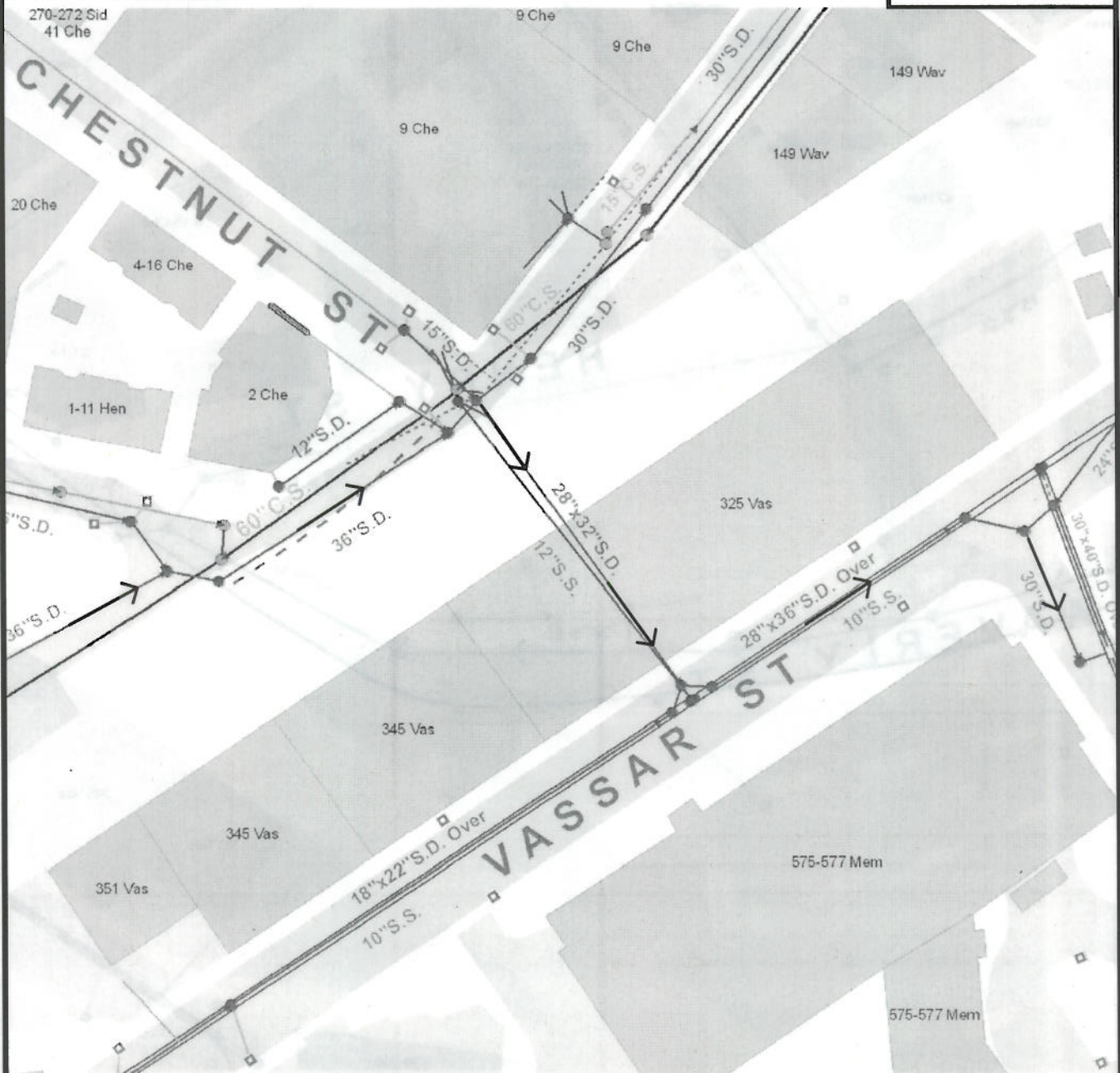
Chkd: W.J.B.

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 |
|---|---|



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640 MEMORIAL DRIVE
CAMBRIDGE MASSACHUSETTS

STORM DRAIN DISCHARGE FLOW PLAN

FOR

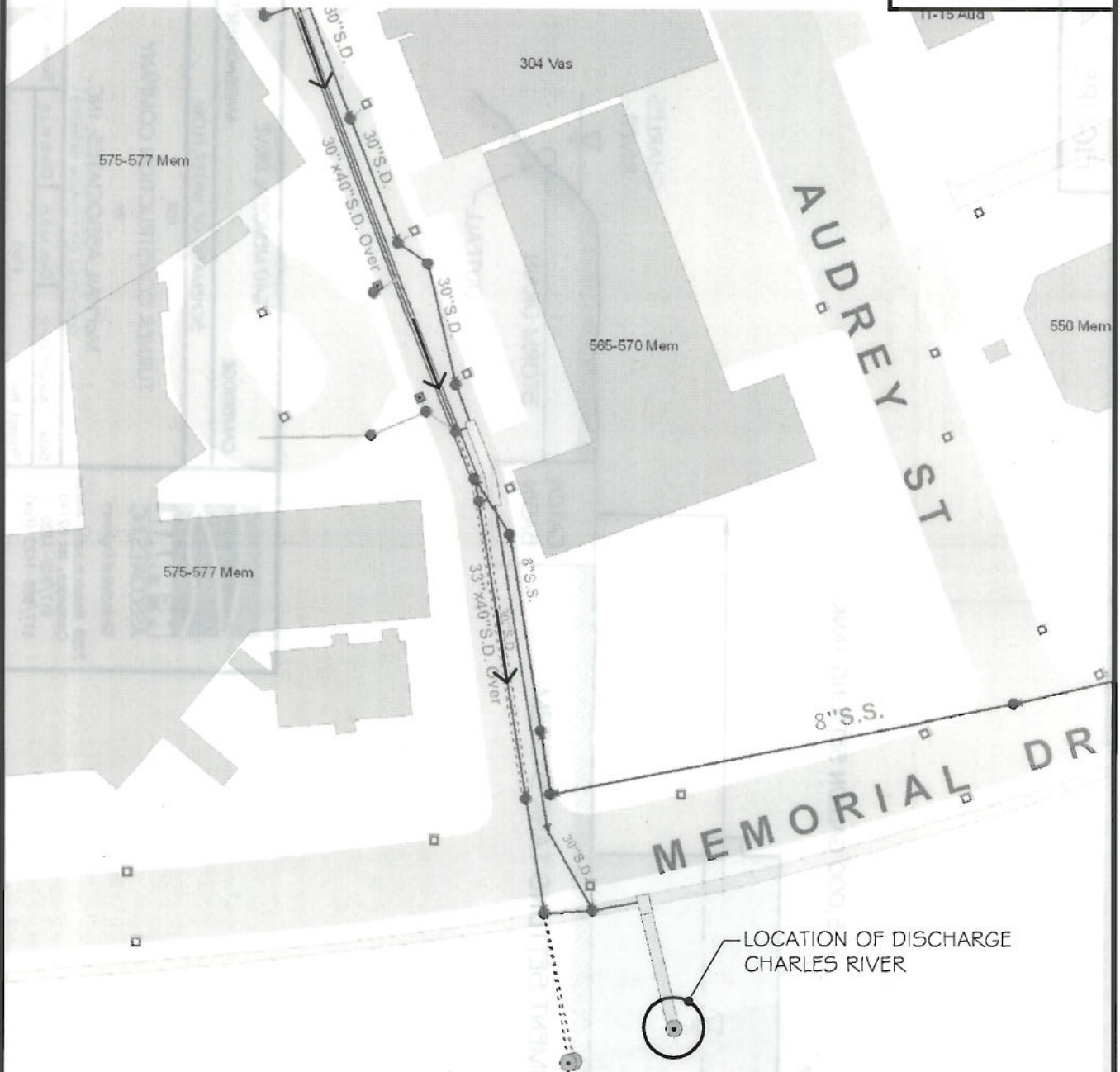
TURNER CONSTRUCTION COMPANY

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



LOCATION OF DISCHARGE
CHARLES RIVER

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 <p>— Trench Drains</p> | <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 |
|---|--|



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640 MEMORIAL DRIVE

CAMBRIDGE

MASSACHUSETTS

STORM DRAIN DISCHARGE FLOW PLAN

FOR

TURNER CONSTRUCTION COMPANY

BY

McPHAIL ASSOCIATES, INC.
CONSULTING GEOTECHNICAL ENGINEERS

Date: AUGUST 2010

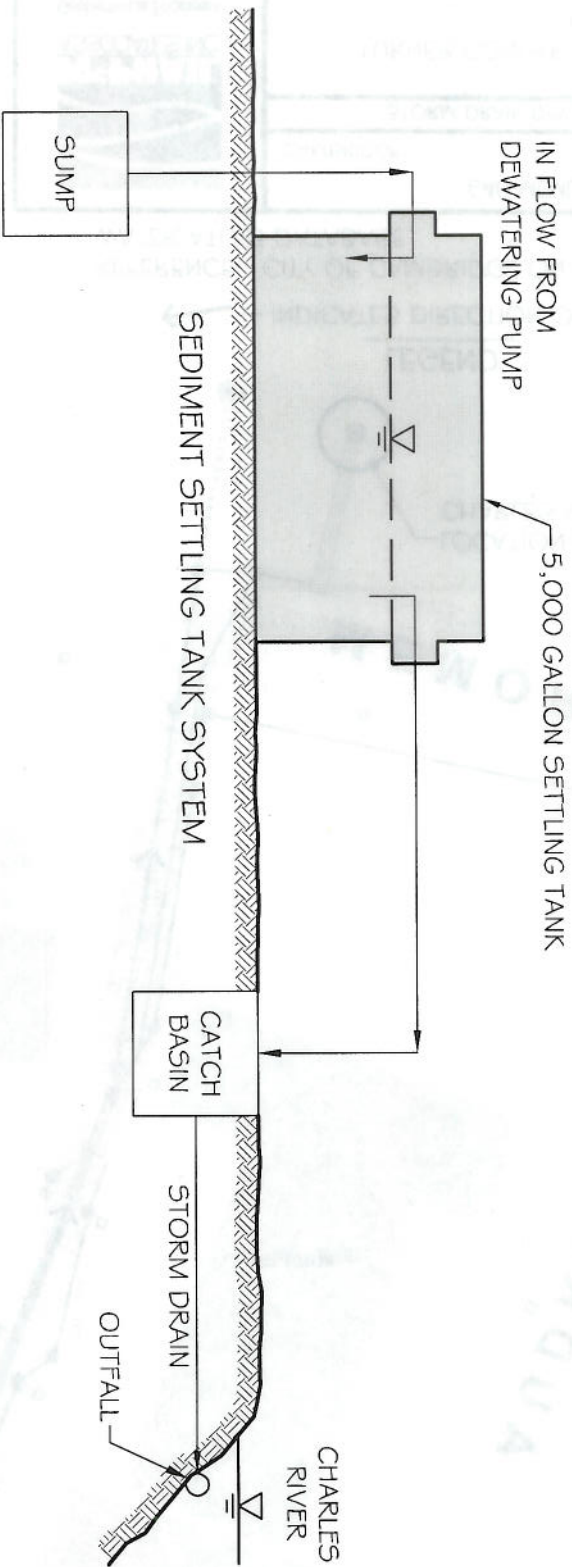
Dwn: M.B.S.

Chkd: W.J.B.

Scale: N.T.S.

Project No: 4780

FIGURE 4



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

640 MEMORIAL DRIVE
 CAMBRIDGE MASSACHUSETTS

SCHEMATIC OF WATER FLOW

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