

PHASE IV REMEDY IMPLEMENTATION

Amendment to Order of Conditions

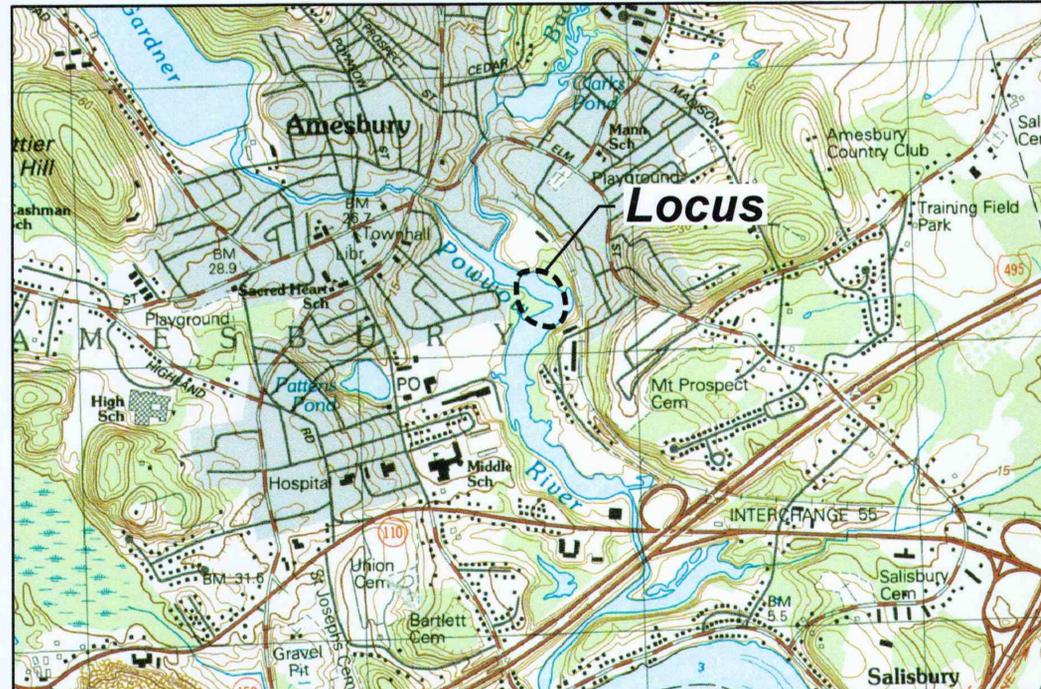
Former Manufactured Gas Plant

Water Street

Amesbury, Massachusetts

GZA Project No.: 05.0045394.00

MassDEP RTN 3-24070



1" = 1000'
SOURCE: USGS QUADRANGLE NEWBURYPORT, MA-NH, 1985



1" = 500'
SOURCE: MASSGIS

PREPARED BY:

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Norwood, MA 02062

BEALS + THOMAS
Civil Engineers + Landscape Architects +
Land Surveyors + Planners +
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384 Lowell Street, Suite 206
Wakefield, MA 01880

PREPARED FOR:

BOSTON GAS COMPANY
D/B/A NATIONAL GRID
40 SYLVAN ROAD
WALTHAM, MASSACHUSETTS
02451

DRAWINGS

DWG. NO.	DRAWING TITLE
1	COVER SHEET
2	EXISTING CONDITIONS PLAN
3	ACCESS AND MATERIALS LAYOUT PLAN
4	SITE PREPARATION AND EROSION CONTROL PLAN
5	EXCAVATION AND DREDGING PLAN
6	DREDGING AND DEWATERING DETAILS
7	FINISH GRADING AND DRAINAGE PLAN
8	PLANTING PLAN
9	PLANTING PLAN DETAILS
10	RESTORATION DETAILS

3	FOR DATE ONLY	GBS	04/08/2015
2	FOR DATE ONLY	GBS	09/11/2014
1	REVISED BASE PLAN AND DETAILS		06/04/2014
0	FOR PERMITTING		09/09/2013
NO.	ISSUE/DESCRIPTION	BY	DATE

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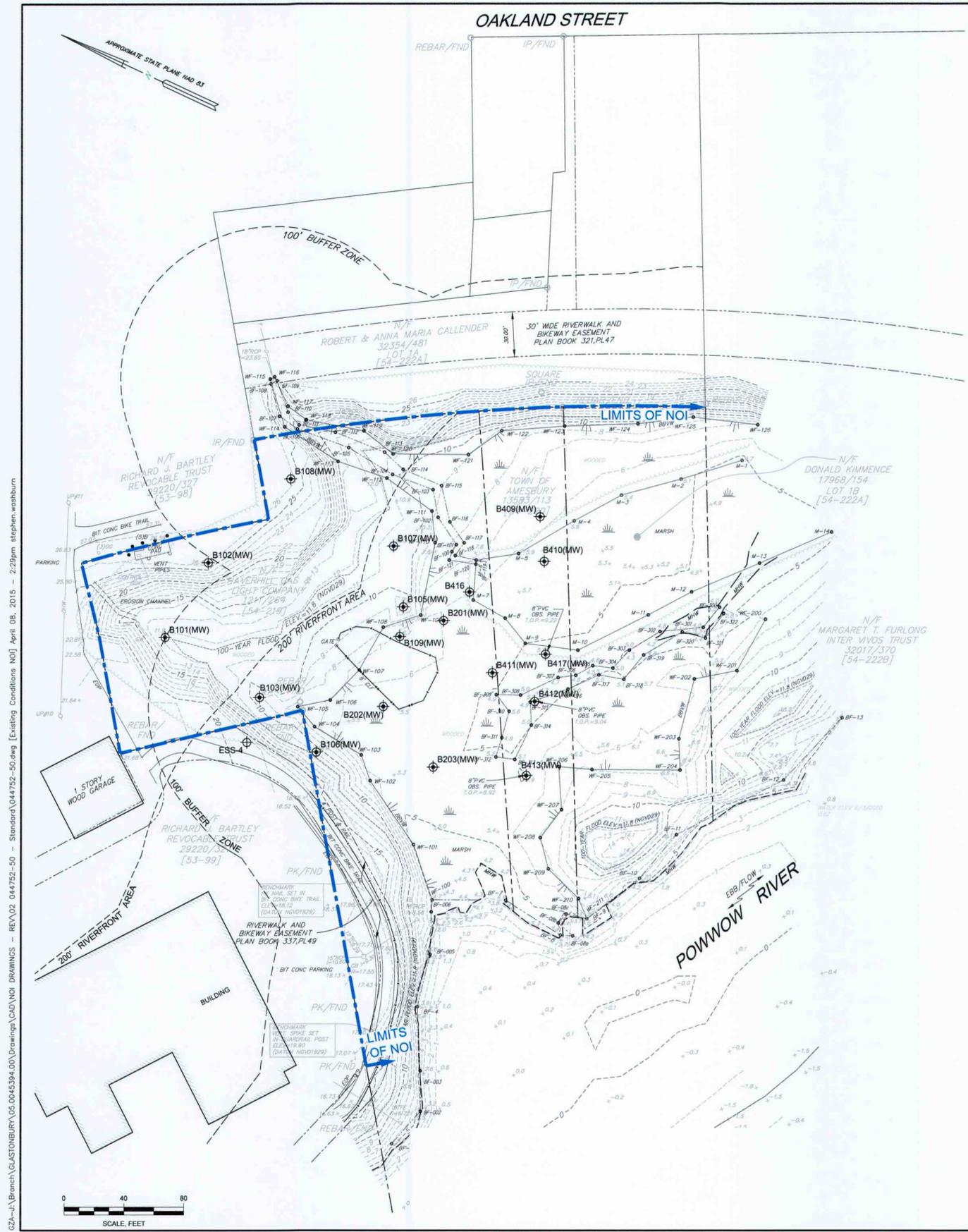
AMENDMENT TO ORDER OF CONDITIONS PERMITTING PLANS
AMESBURY FORMER MGP
AMESBURY, MASSACHUSETTS

COVER SHEET

PREPARED BY:	GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR:	BOSTON GAS COMPANY D/B/A NATIONAL GRID
PROJ MGR:	GBS	REVIEWED BY:	DRS
DESIGNED BY:	GBS	DRAWN BY:	SMW
DATE:	04-08-2015	PROJECT NO.:	05.0045394.00
		CHECKED BY:	JJC
		SCALE:	AS NOTED
		REVISION NO.:	3
		FIGURE	1



Not To Be Used for Construction



LEGEND:

- S — SMH — SEWER LINE/MANHOLE
- D — DMH — DRAIN LINE/MANHOLE
- CB □ CB — CATCH BASIN
- G — GG — FLARED END/INVERT
- OHW — GAS LINE/GATE
- LP — OVERHEAD WIRE
- UP — LIGHT POLE
- GW — UTILITY POLE
- — GUY WIRE
- — SIGN
- — POST
- — BOLLARD POST
- — CHAIN LINK FENCE
- — GUARDRAIL/GUIDERAIL
- — TREE LINE
- — BUILDING
- — 100-YEAR FLOOD ELEVATION
- — ASSESSOR MAP AND LOT
- — MONITORING WELL BY GEI
- — BOUNDARY OF BORDERING VEGETATED WETLAND
- — MEAN ANNUAL HIGH WATER FLAG
- — BANK/BANK FLAG
- — BUFFER ZONE
- — RIVERFRONT AREA
- — MINOR CONTOUR
- — MAJOR CONTOUR
- — SPOT ELEVATION
- — EDGE OF WATER
- — THREAD OF THE RIVER
- — LINE OF CHANGE IN VEGETATION
- — BITUMINOUS CONCRETE
- — CONCRETE
- — CORRUGATED METAL PIPE
- — EDGE OF PAVEMENT
- — OBSERVATION PIPE
- — REINFORCED CONCRETE PIPE
- — TOP OF PIPE ELEVATION
- — STONE BOUND
- — IRON PIN/IRON PIPE
- — IRON ROD
- — PK NAIL
- — FOUND
- — CATCH BASIN

NOTES:

1. BASE PLAN FROM GEI REVISION SET DATED SEPTEMBER 2014, WHICH WAS BASED ON FIGURE TP-1 TITLED "TOPOGRAPHIC PLAN, WATER STREET AMESBURY, MA (ESSEX COUNTY)," PREPARED BY BEALS + THOMAS, INC. AND DATED JUNE 23, 2010 AND REVISED AUGUST 11, 2010 AND APRIL 22, 2014.
2. THE LOCATIONS OF MONITORING WELLS B201(MW) THROUGH B203(MW) AND B409(MW) THROUGH B411(MW) ARE ESTIMATED.
3. UNDERGROUND UTILITIES SHOWN ARE FROM OBSERVED SURFACE INDICATIONS BY BEALS AND THOMAS AND ARE APPROXIMATE ONLY. BEFORE CONSTRUCTION CALL "DIG SAFE" 1-888-344-7233.
4. THIS PLAN WAS PREPARED FROM AN ACTUAL SURVEY MADE ON THE GROUND BY BEALS AND THOMAS USING A ZEISS ELTA TOTAL STATION ON OR BETWEEN JUNE 3, 2010 AND JUNE 9, 2010 AND APRIL 22, 2014.
5. WETLAND FLAGS DELINEATED BY MASON & ASSOCIATES, INC. ON MAY 24, 2010 AND LEC ENVIRONMENTAL CONSULTANTS, INC. ON APRIL 22, 2014.
6. WETLAND FLAGS LOCATED BY ZEISS ELTA TOTAL STATION METHODS BY BEALS AND THOMAS, INC. ON OR BETWEEN JUNE 3, 2010 AND JUNE 9, 2010 AND APRIL 22, 2014.
7. ALL ELEVATIONS REFER TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).
8. NAD83 HORIZONTAL COORDINATE SYSTEM ESTABLISHED BY GPS-OPUS METHODS.
9. THIS PLAN IS NOT INTENDED TO BE USED FOR PROPERTY LINE PURPOSES.
10. EASEMENTS OF RECORD ARE NOT SHOWN.
11. THE 100 YEAR FLOODPLAIN ELEVATION OF 11.8 (NGVD29) IS TAKEN FROM "FLOOD INSURANCE STUDY TOWN OF AMESBURY, MASSACHUSETTS, ESSEX COUNTY COMMUNITY PANEL NUMBER 250075 LAST REVISED AUGUST 2, 1992."
12. THE MEAN HIGH WATER IS APPROXIMATELY ELEVATION 4.2 (NGVD1929) AND MEAN LOW WATER IS APPROXIMATELY ELEVATION -3.4 (NGVD1929).
13. BUILDING ON BARTLEY PROPERTY IS DIGITIZED FROM GOOGLE EARTH IMAGE DATED 4/9/2008. LOCATION IS APPROXIMATE.

3	REVISION TO NOTE 1	GBS	04/08/2015
2	FOR DATE ONLY		09/11/2014
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**AMENDMENT TO ORDER OF CONDITIONS PERMITTING PLANS
AMESBURY FORMER MGP
AMESBURY, MASSACHUSETTS**

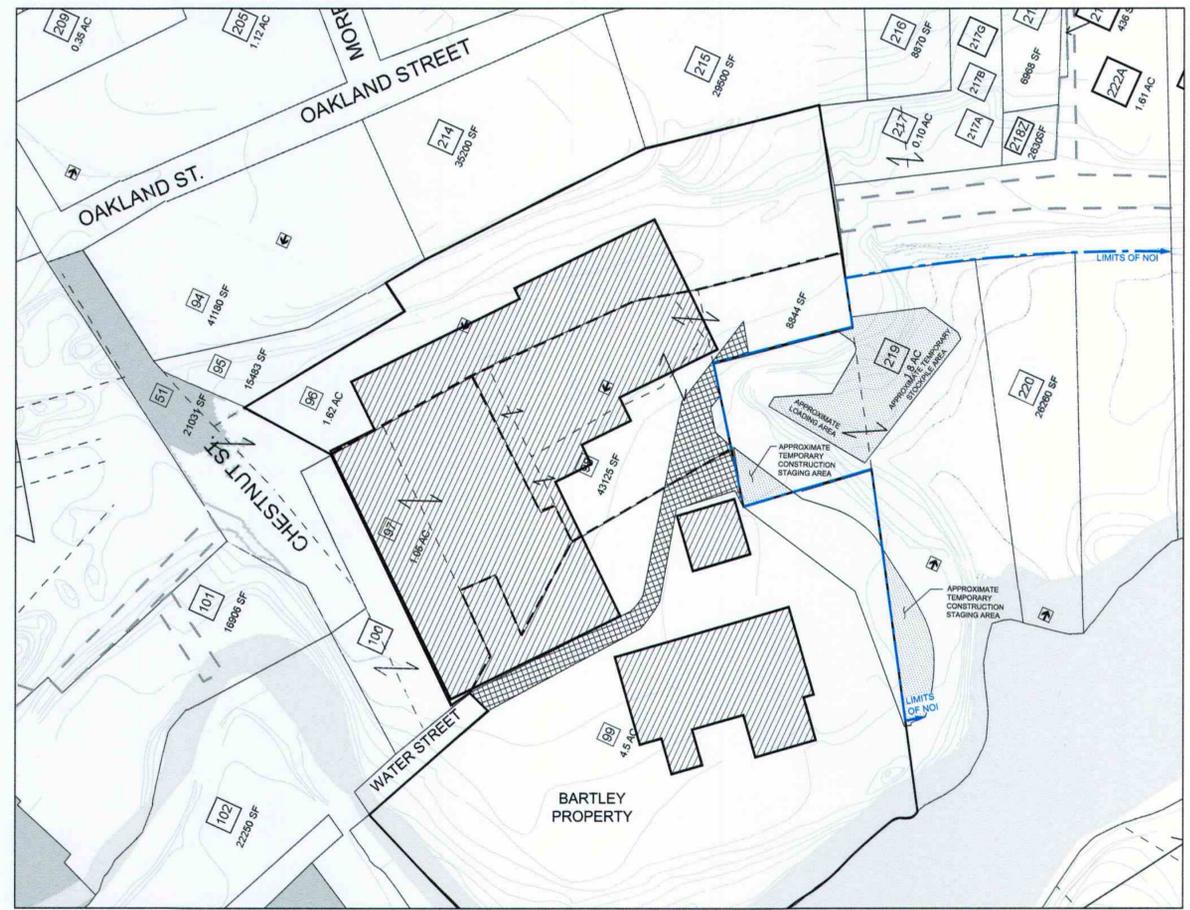
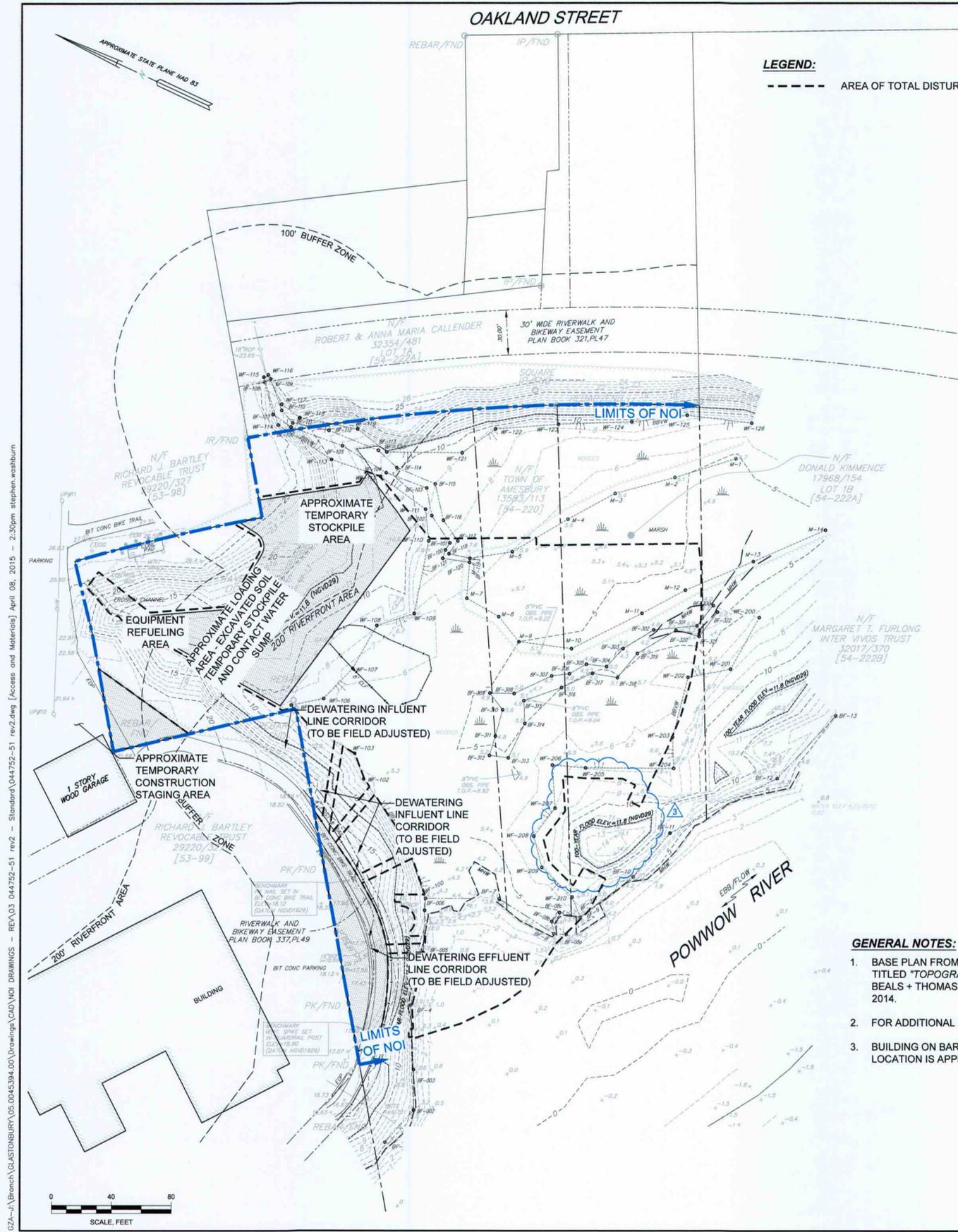
EXISTING CONDITIONS PLAN

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: BOSTON GAS COMPANY D/B/A NATIONAL GRID
PREPARED BY: BEALS + THOMAS Civil Engineers + Landscape Architects + Land Surveyors + Planners + Environmental Specialists	REVIEWED BY: DRS PROJ MGR: GBS DESIGNED BY: GBS DRAWN BY: SMW
PROJ. NO. 05.0045394.00	SCALE: 1" = 40'
DATE: 04-08-2015	FIGURE 2



Not To Be Used for Construction

GZA-J:\Branch\GLASTONBURY\05.0045394.00\Drawings\CAD\NOI Drawings - REV 02 044752-50 - Standard\044752-50.dwg [Existing Conditions NOI] April 08, 2015 - 2:29pm stephen.washburn



G:\Projects\AMESBURY\05.0045394.00\Drawings\CAD\NOI Drawings - REV 03 044752-51 rev2.dwg [Access and Materials] April 08, 2015 - 2:30pm stephen.washburn

3	REDUCTION TO AREA OF TOTAL DISTURBANCE, REVISION TO NOTE 1	GBS	04/08/2015
2	FOR DATE ONLY		09/11/2014
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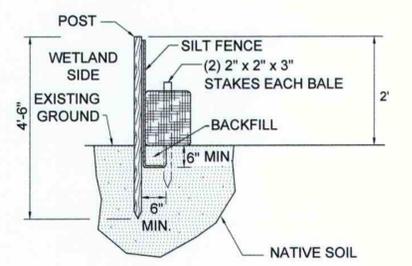
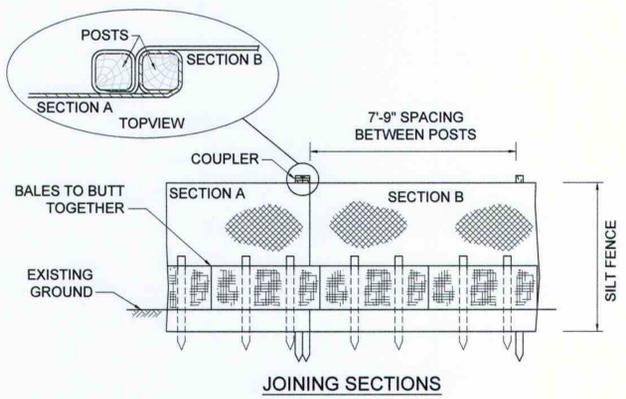
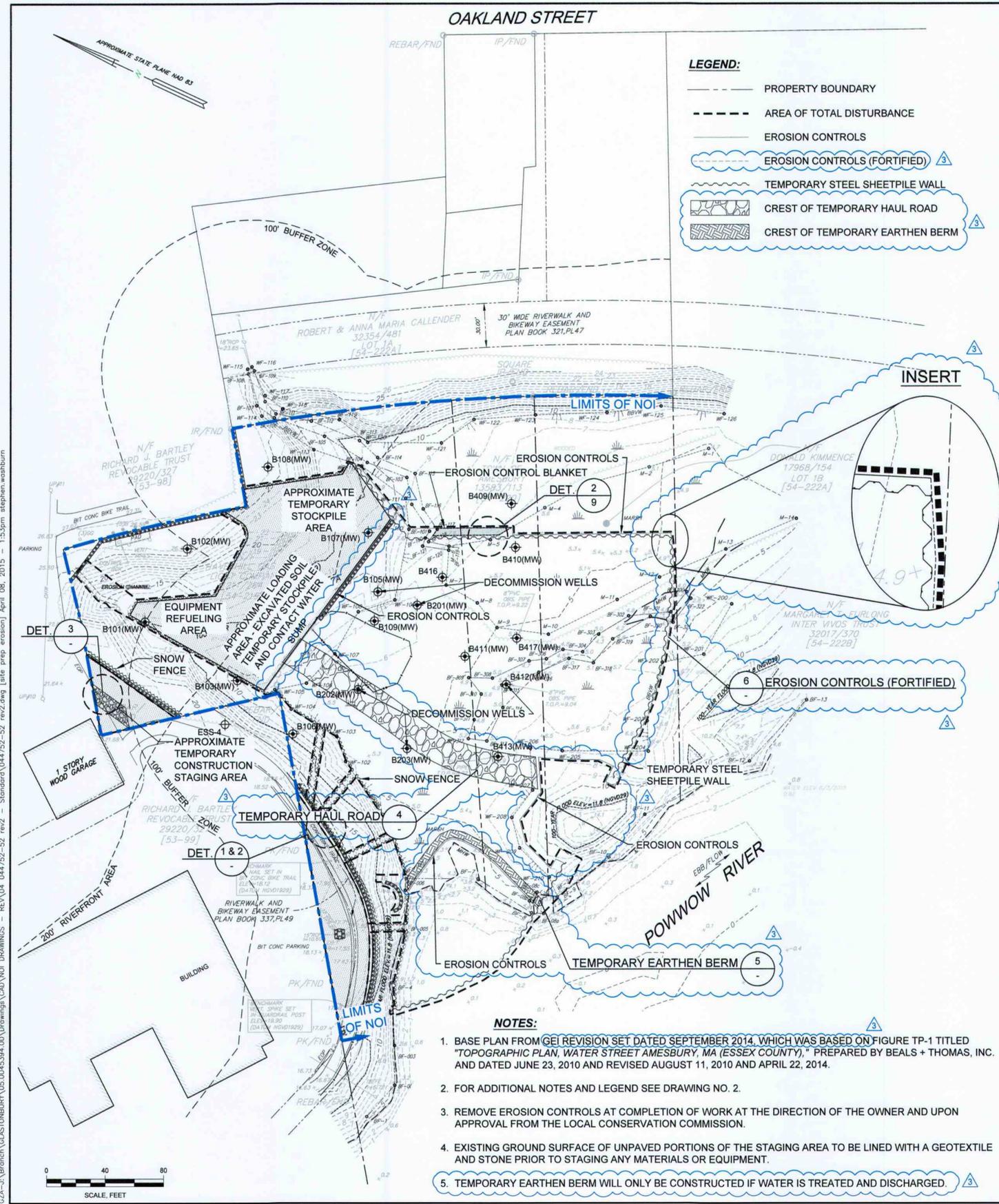
**AMENDMENT TO ORDER OF CONDITIONS PERMITTING PLANS
 AMESBURY FORMER MGP
 AMESBURY, MASSACHUSETTS**

ACCESS AND MATERIALS LAYOUT PLAN

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: BOSTON GAS COMPANY D/B/A NATIONAL GRID
PREPARED BY: BEALS + THOMAS Civil Engineers + Landscape Architects + Land Surveyors + Planners + Environmental Specialists	REVIEWED BY: DRS PROJ MGR: GBS DESIGNED BY: GBS DRAWN BY: SMW
PROJ. NO. 05.0045394.00	SCALE: AS NOTED
DATE: 04-08-2015	FIGURE 3



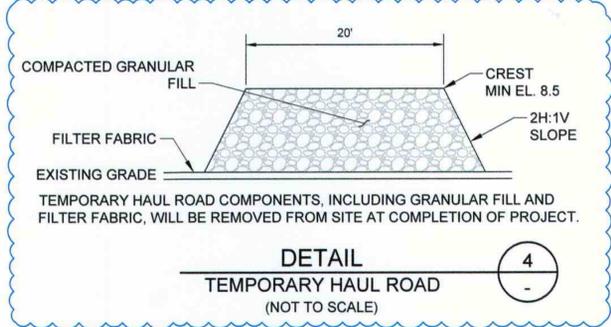
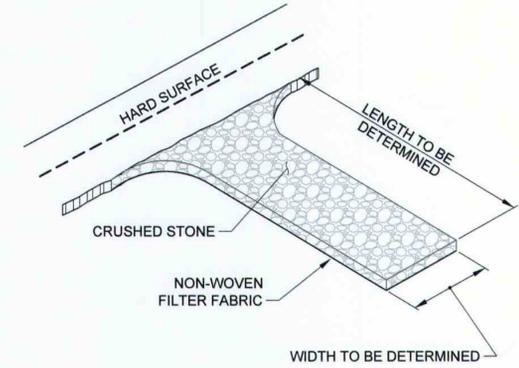
Not To Be Used for Construction



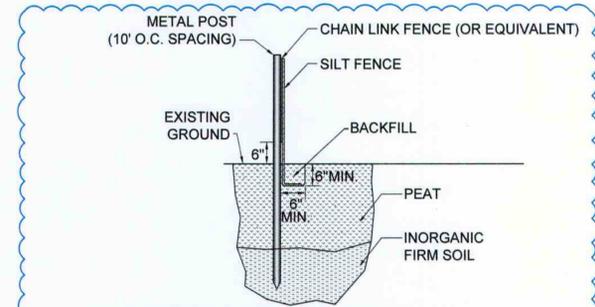
LAY THE TOE-IN FLAP OF FABRIC INTO THE UNDISTURBED BOTTOM OF TRENCH AND TAMP THE SOIL. PLACE HAYBALES NEXT TO THE FILTER FABRIC.

DETAIL 1
SILTATION CONTROL FENCE WITH HAYBALES (NOT TO SCALE)

DETAIL 2
TOE-IN METHOD (NOT TO SCALE)



DETAIL 3
CONSTRUCTION EXIT (NOT TO SCALE)



SET TOP OF FORTIFIED EROSION CONTROLS AT EL 8.5 OR A MINIMUM OF 2 FEET ABOVE EXISTING GRADE, WHICHEVER ELEVATION IS HIGHER. AFFIX SILT FENCE AND CHAIN LINK FENCE (OR EQUIVALENT) TO METAL POST. METAL POST EMBEDMENT DEPTHS TO BE DETERMINED IN THE FIELD BY ENGINEER BASED ON FIELD CONDITIONS.

3	MODIFIED EROSION CONTROL AND SHEETPILE WALL ALIGNMENT, ADDED FORTIFIED EROSION CONTROLS, ADDED DETAILS 4, 5 AND 6. REMOVED INNER SHEETPILE WALL, ADDITION OF TEMPORARY HAUL ROAD AND TEMPORARY EARTHEN BERM, REDUCTION TO AREA OF TOTAL DISTURBANCE, ADDED INSERT, REVISION TO NOTE 1. ADDED NOTE 5.	GBS	04/08/2015
2	FOR DATE ONLY		09/11/2014
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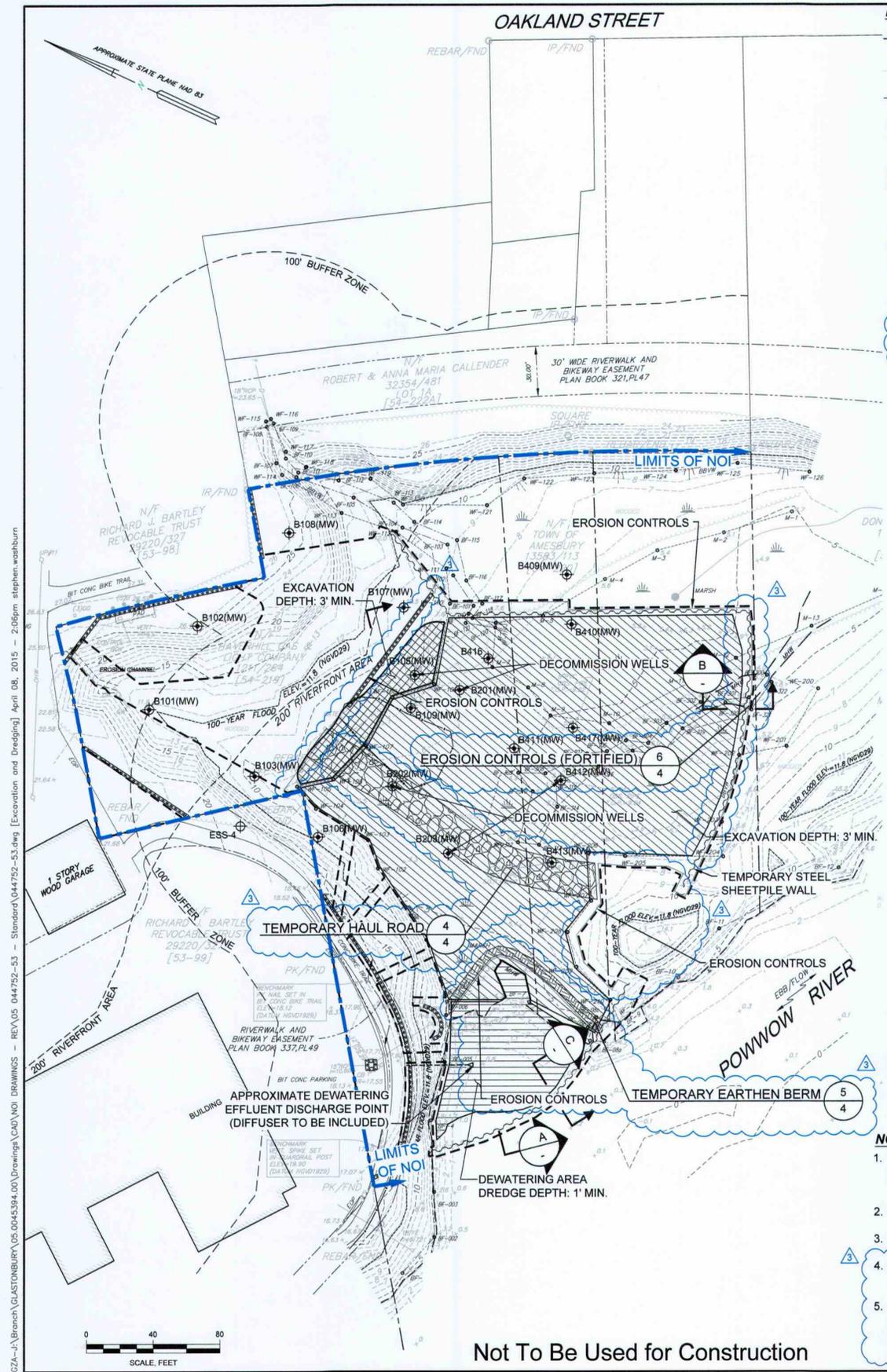
**AMENDMENT TO ORDER OF CONDITIONS PERMITTING PLANS
AMESBURY FORMER MGP
AMESBURY, MASSACHUSETTS**

SITE PREPARATION AND EROSION CONTROL PLAN

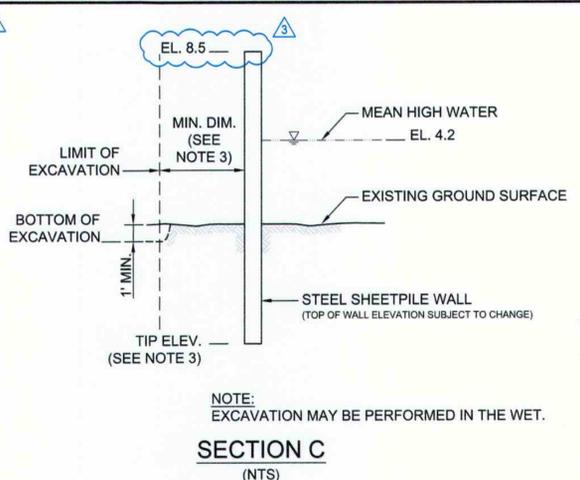
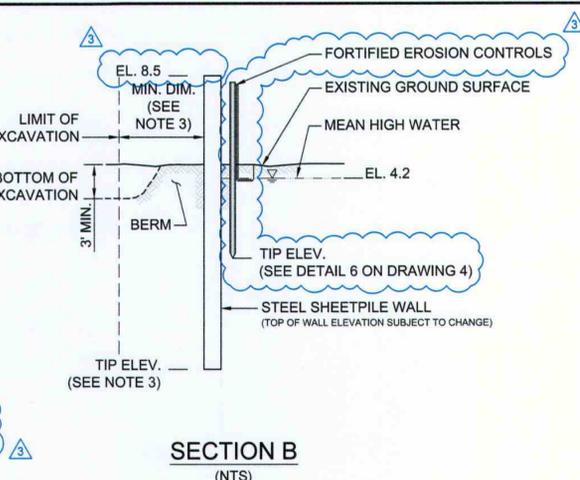
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: BOSTON GAS COMPANY D/B/A NATIONAL GRID
DESIGNED BY: GZA	DESIGNED BY: GBS
PROJECT NO.: 05.0045394.00	SCALE: AS NOTED
DATE: 04-08-2015	FIGURE 4



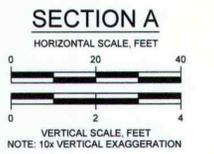
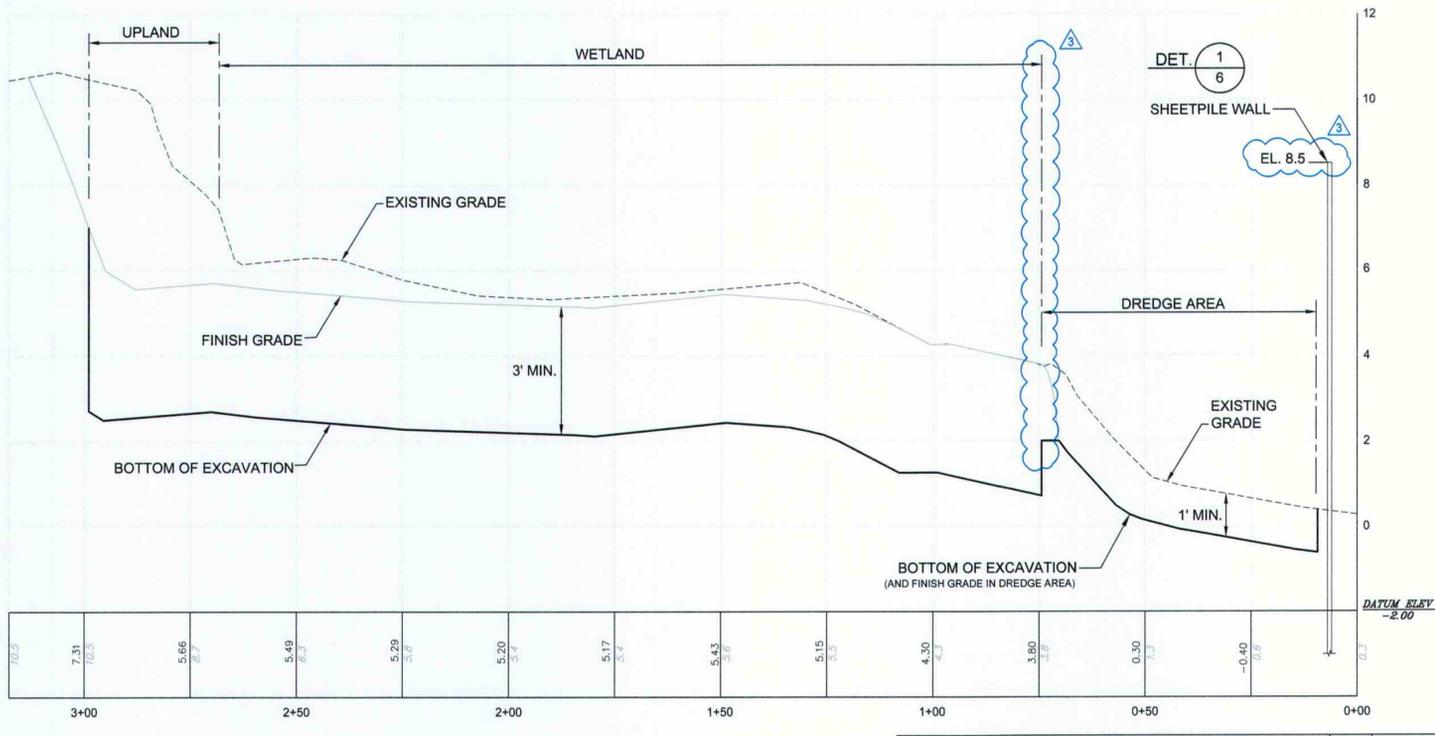
Not To Be Used for Construction



- LEGEND:**
- TEMPORARY FENCING AND WORK AREA LIMITS
 - EXISTING FENCING
 - PROPERTY BOUNDARY
 - AREA OF TOTAL DISTURBANCE
 - EROSION CONTROLS
 - EROSION CONTROLS (FORTIFIED)
 - TEMPORARY STEEL SHEETPILE WALL
 - EXCAVATE CONTAMINATED SOIL (UPLAND)
 - EXCAVATE CONTAMINATED SOIL (WETLAND)
 - DREDGE CONTAMINATED SEDIMENT
 - CREST OF TEMPORARY HAUL ROAD
 - CREST OF TEMPORARY EARTHEN BERM



NOTE:
EXCAVATION MAY BE PERFORMED IN THE WET.



- NOTES:**
1. BASE PLAN FROM GEI REVISION SET DATED SEPTEMBER 2014, WHICH WAS BASED ON FIGURE TP-1 TITLED "TOPOGRAPHIC PLAN, WATER STREET AMESBURY, MA (ESSEX COUNTY)," PREPARED BY BEALS + THOMAS, INC. AND DATED JUNE 23, 2010 AND REVISED AUGUST 11, 2010 AND APRIL 22, 2014.
 2. FOR ADDITIONAL NOTES AND LEGEND SEE DRAWING NO. 2.
 3. DIMENSION OR ELEVATION TO BE DETERMINED BASED ON RESULTS OF FINAL SUBSURFACE DESIGN.
 4. FOLLOWING EXCAVATION, BACKFILL AND INSTALL EROSION CONTROL BLANKETS AS SHOWN ON DETAIL 4 ON DRAWING NO. 9.
 5. TO THE EXTENT PRACTICAL, TEMPORARY STEEL SHEETING WILL NOT BE REMOVED UNTIL AFTER EROSION CONTROL BLANKETS HAVE BEEN INSTALLED. FOR THE AREAS WITHIN 20 FEET +/- OF THE TEMPORARY STEEL SHEETING ALIGNMENT, PLACE EROSION CONTROL BLANKETS IN SECTIONS OVER BACKFILLED AREAS AS SHOWN ON DRAWINGS AFTER REMOVING TEMPORARY STEEL SHEETING SECTIONS.

Not To Be Used for Construction

3	MODIFIED EROSION CONTROL AND SHEETPILE WALL ALIGNMENT, ADDITION OF FORTIFIED EROSION CONTROLS, MODIFIED SHEETPILE WALL TOP ELEVATION, REMOVED INNER SHEETPILE WALL, ADDITION OF TEMPORARY HAUL ROAD AND TEMPORARY EARTHEN BERM, REDUCTION TO AREA OF TOTAL DISTURBANCE, MODIFIED NOTE 1, ADDITION OF NOTES 4 AND 5.	GBS	04/08/2015
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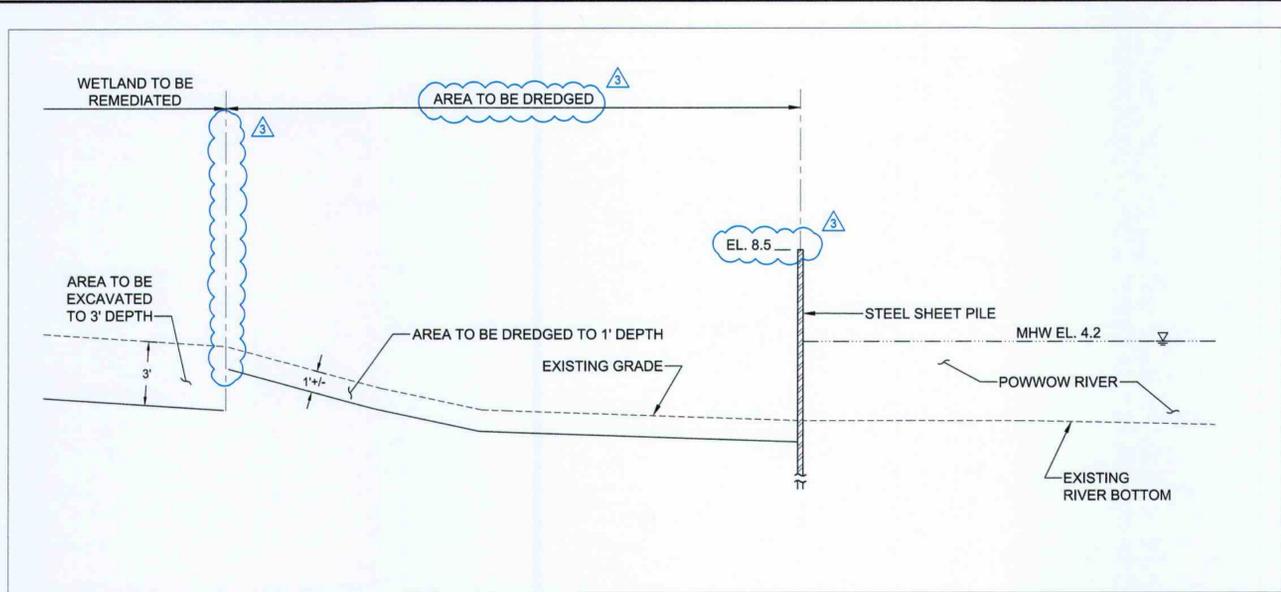
**AMENDMENT TO ORDER OF CONDITIONS PERMITTING PLANS
AMESBURY FORMER MGP
AMESBURY, MASSACHUSETTS**

EXCAVATION AND DREDGING PLAN

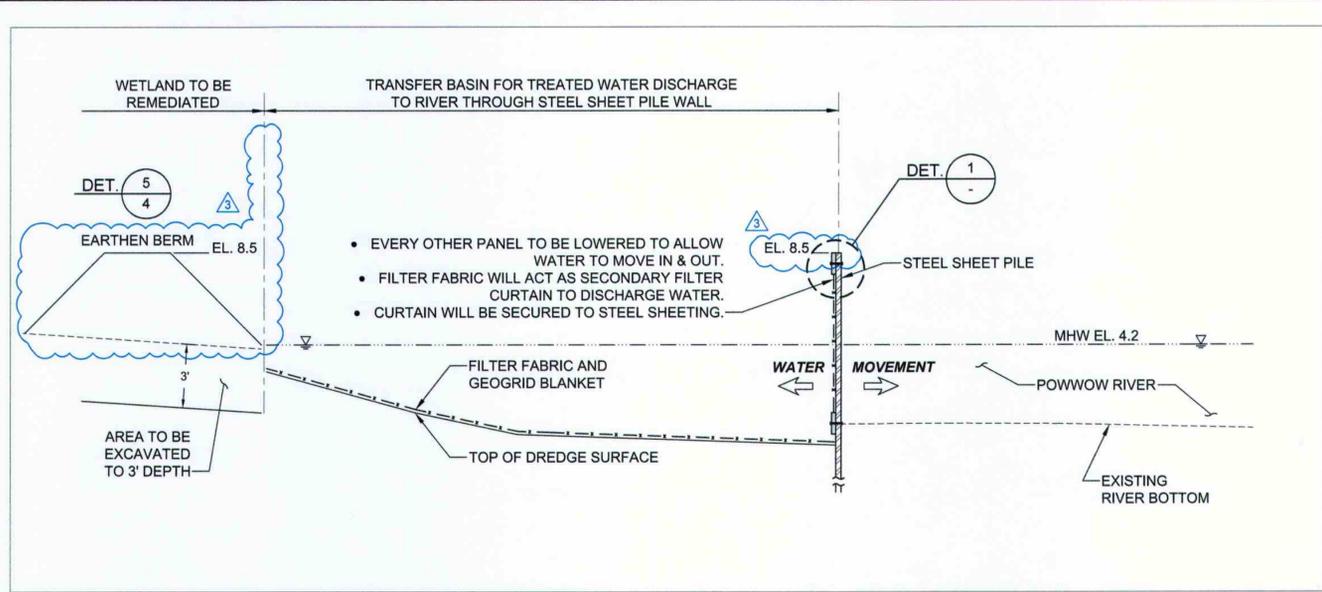
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: BOSTON GAS COMPANY D/B/A NATIONAL GRID
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PROJ. NO. 05.0045394.00	SCALE: AS NOTED

GZA-J:\Branch\GLASTONBURY\05-0045394-00\Drawings\CAD\NOI Drawings - REV\05 044752-53 - Standard\044752-53.dwg [Excavation and Dredging] April 08, 2015 - 2:06pm stephen.washburn

G:\2-1-11\Branch\GL\JSTONBURY\05_0045394_00\Drawings\CAD\NOI DRAWINGS - REV_06 044752-37 - Standard\044752-37.dwg [Dredging and Dewatering] April 08, 2015 - 2:09pm stephen.washburn



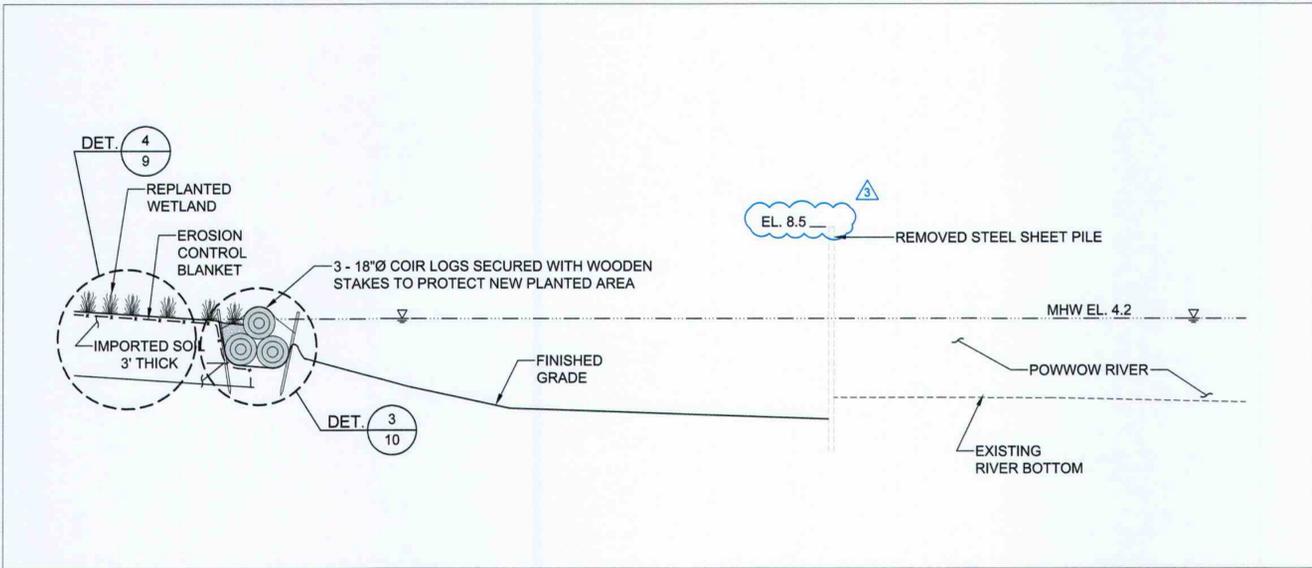
EXCAVATION AND DREDGING DETAIL (CONDITION A)
(NOT TO SCALE)



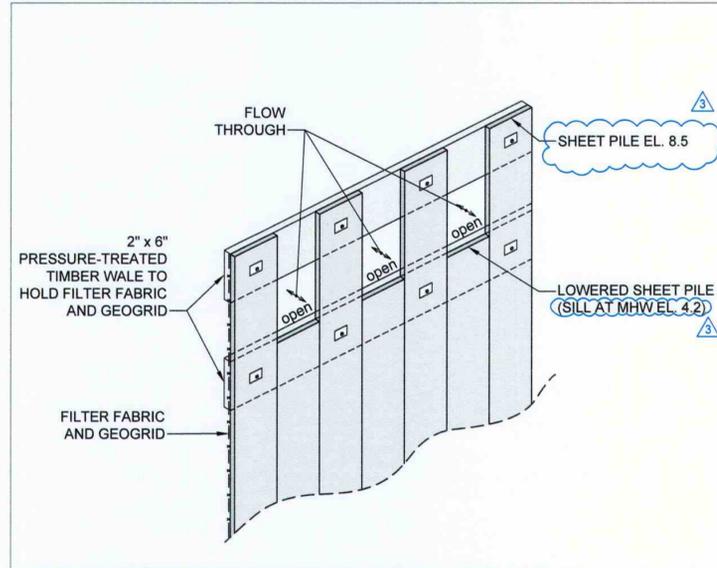
DISCHARGE AREA DETAIL (CONDITION B)
(NOT TO SCALE)

NOTES:

1. DISCHARGE AREA WILL ONLY BE PREPARED IF WATER IS TREATED AND DISCHARGED.



RESTORATION DETAIL (CONDITION C)
(NOT TO SCALE)



DETAIL
SHEET PILE OUTSIDE DREDGE AREA
(NOT TO SCALE)

NOTES:

1. DISCHARGE AREA WILL ONLY BE PREPARED IF WATER IS TREATED AND DISCHARGED.

NOTES:

1. ALL ELEVATIONS REFER TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).

2. FOR ADDITIONAL NOTES AND REFERENCES SEE DWG. NO. 2.

3	ADDED EARTHEN BERM, MODIFIED SHEETING ALIGNMENT AND TOP ELEVATION, REMOVED INNER SHEETPILE WALL, REVISED SILL ELEVATION, ADDED NOTE 1	GBS	04/08/2015
2	FOR DATE ONLY		09/11/2014
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AMESBURY FORMER MGP
AMESBURY, MASSACHUSETTS

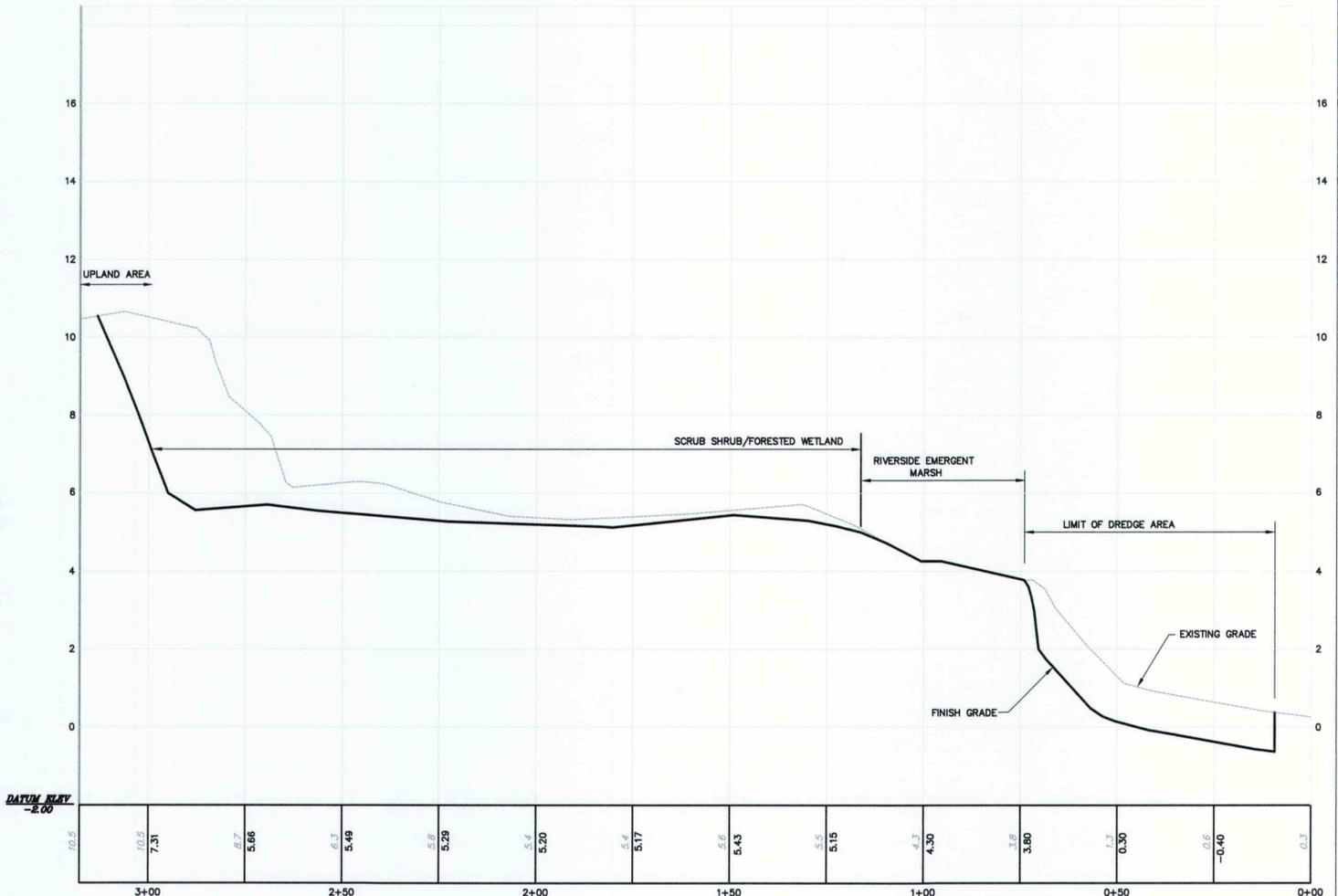
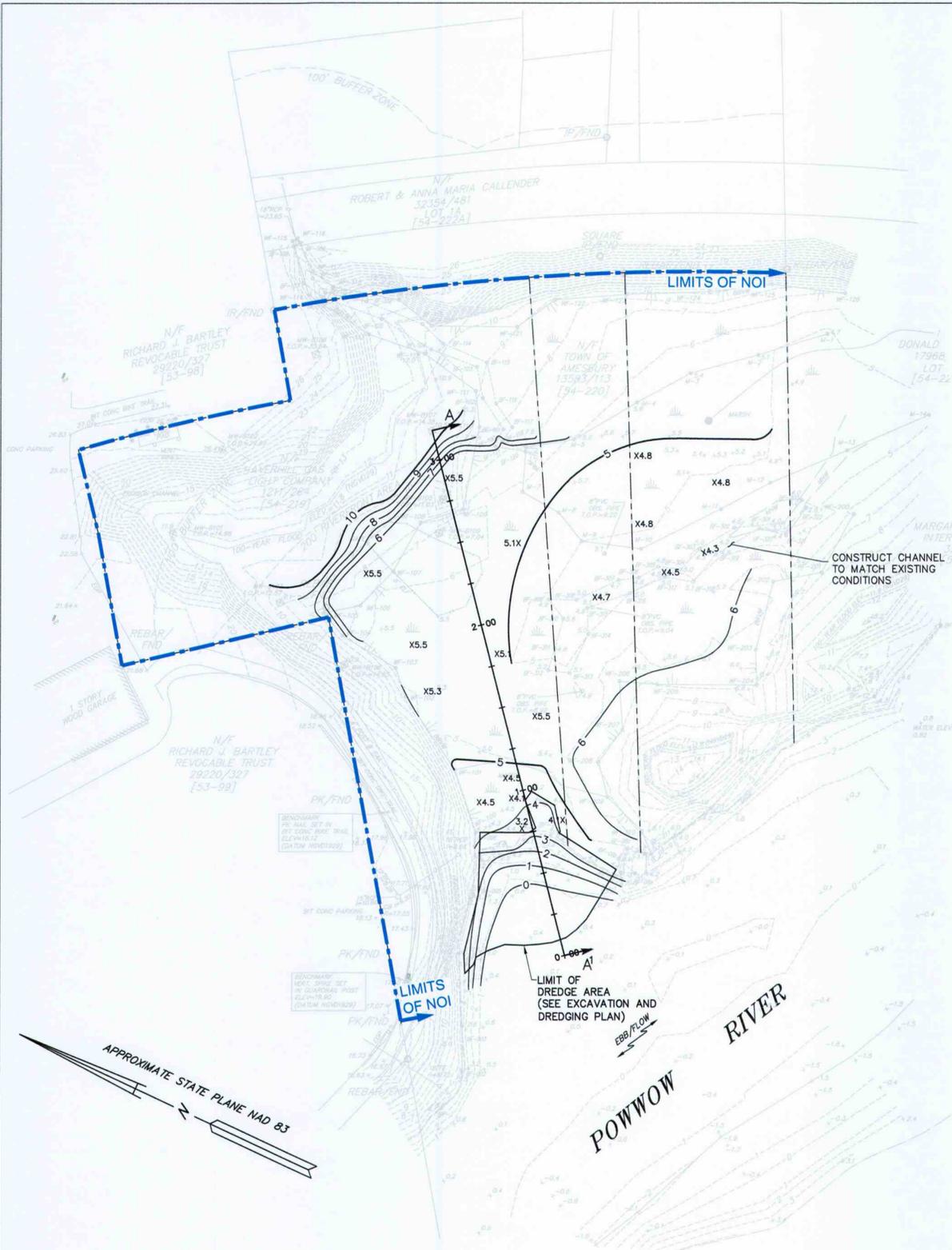
DREDGING AND DEWATERING DETAILS

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PROJ. NO. 05.0045394.00	SCALE: AS NOTED
DATE: 04-08-2015	FIGURE 6

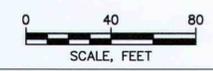


Not To Be Used for Construction

G:\Projects\GLASTONBURY\05.0045394.00 Drawings\CAD\NOI Drawings - REV 07 08 09 221BP002B rev2 - Standard\221BP002B rev2.dwg [finish grading] April 06, 2015 - 2:21pm stephen.washburn



PROFILE A-A'¹
 HORIZONTAL SCALE FEET
 0 20 40
 VERTICAL SCALE FEET
 0 2 4
 NOTE 1x VERTICAL EXAGGERATION



FOR NOTES, REFERENCES AND LEGEND SEE SHEET 2.
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NO.	ISSUE/DESCRIPTION	BY	DATE

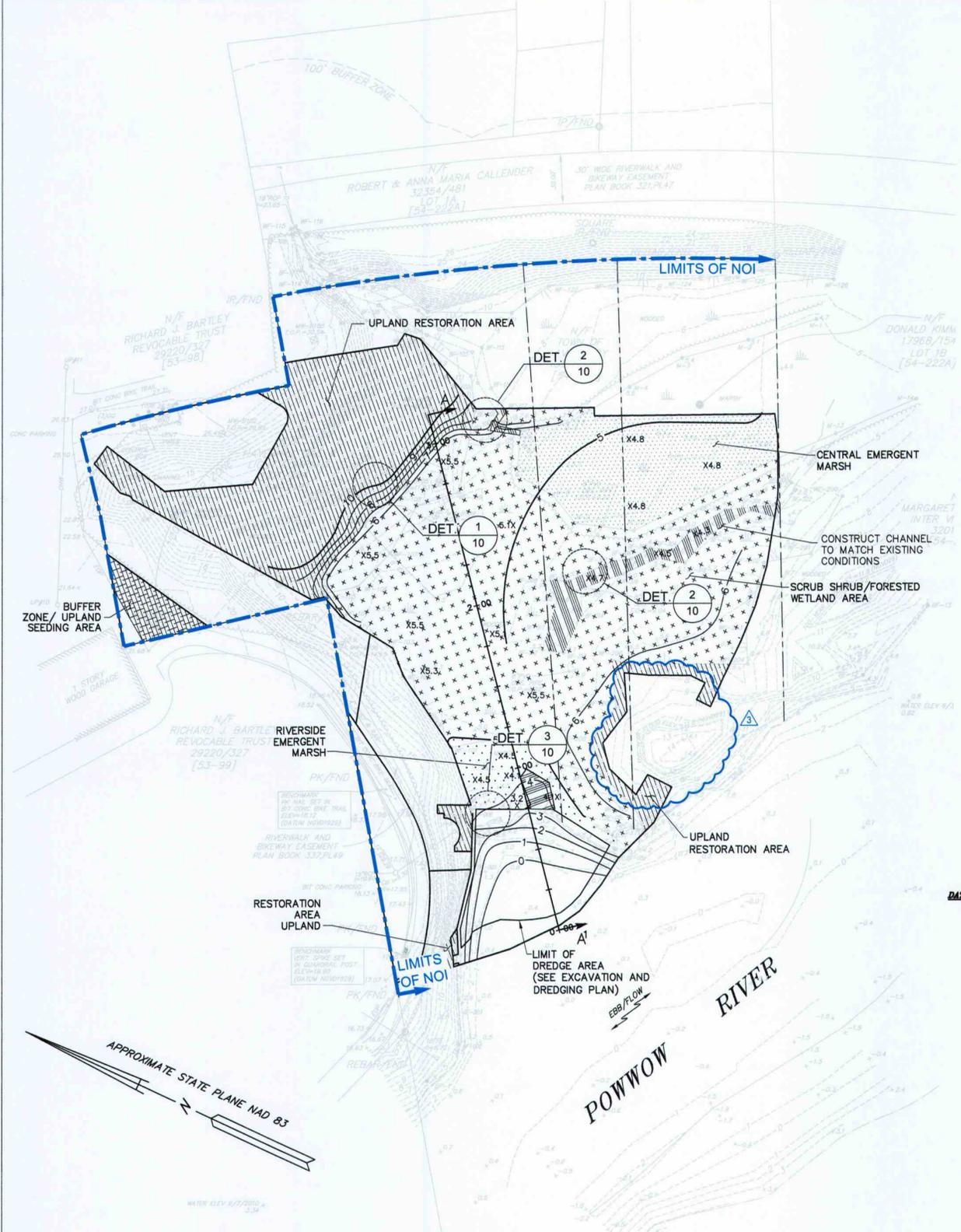
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**AMENDMENT TO ORDER OF CONDITIONS PERMITTING PLANS
 AMESBURY FORMER MGP
 AMESBURY, MASSACHUSETTS**

FINISH GRADING AND DRAINAGE PLAN

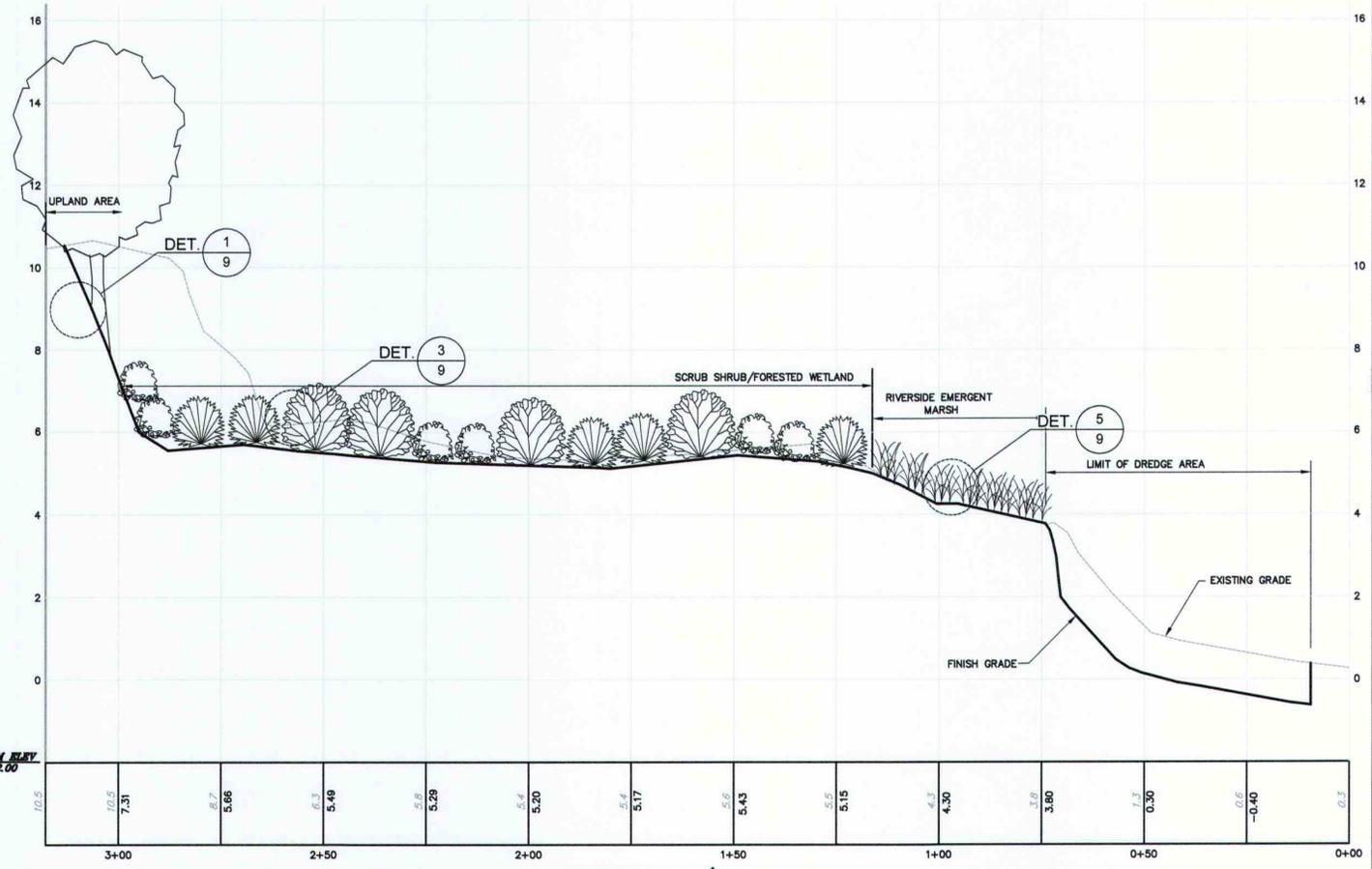
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: BOSTON GAS COMPANY D/B/A NATIONAL GRID
DESIGNED BY: BEALS + THOMAS Civil Engineers + Landscape Architects + Land Surveyors + Planners + Environmental Specialists	REVIEWED BY: DRS PROJ MGR: GBS DESIGNED BY: GBS DRAWN BY: SMW
PROJ. NO. 05.0045394.00	SCALE: AS NOTED
DATE: 04-08-2015	FIGURE 7

G:\Projects\GASTONBURY\05.00\45394.00\Drawings\CAD\NOI Drawings - REV\07 08 09 2218P002B rev2.dwg [planting plan] April 08, 2015 - 2:22pm stephen.washburn

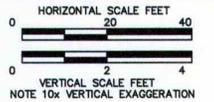


PLANTING LEGEND

- SCRUB SHRUB/FORESTED WETLAND
- RIVERSIDE EMERGENT MARSH
- UPLAND RESTORATION AREA
- BUFFER ZONE/ UPLAND SEEDING AREA
- CENTRAL EMERGENT MARSH
- AREAS BELOW THE BANK WILL NOT BE PLANTED



PROFILE A-A1



3	REVISED UPLAND RESTORATION AREA	GBS	04/08/2015
2	FOR DATE ONLY		09/11/2014
1	REVISED BASE PLAN AND DETAILS		06/04/2014
0	FOR PERMITTING		09/09/2013
NO.	ISSUE/DESCRIPTION	BY	DATE

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**AMENDMENT TO ORDER OF CONDITIONS PERMITTING PLANS
AMESBURY FORMER MGP
AMESBURY, MASSACHUSETTS**

PLANTING PLAN

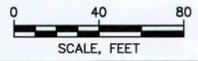
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PROJ. NO. 05.0045394.00	SCALE: AS NOTED
DATE: 04-08-2015	FIGURE 8



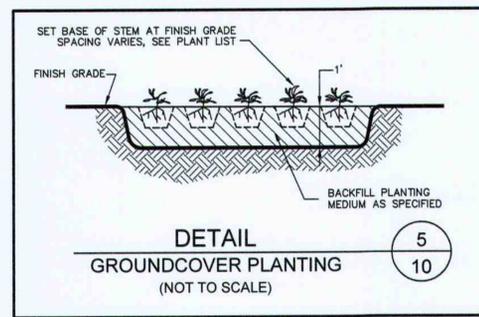
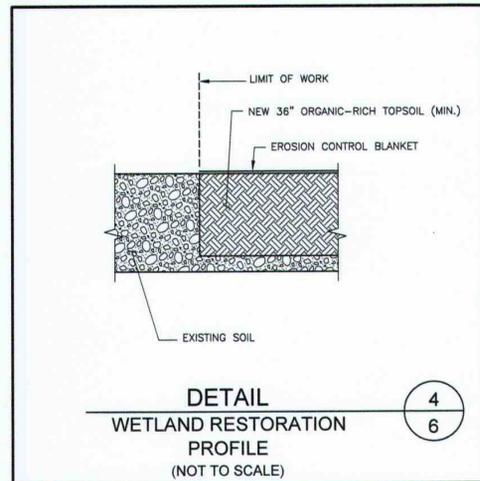
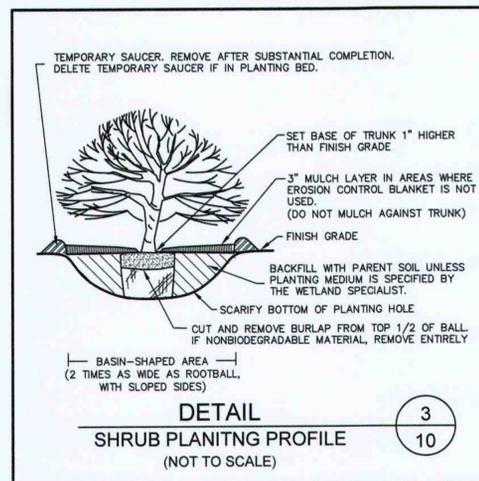
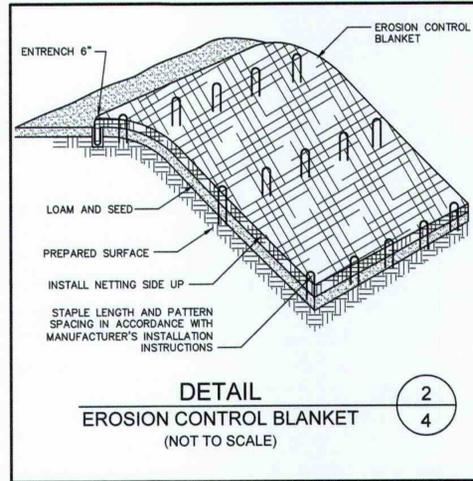
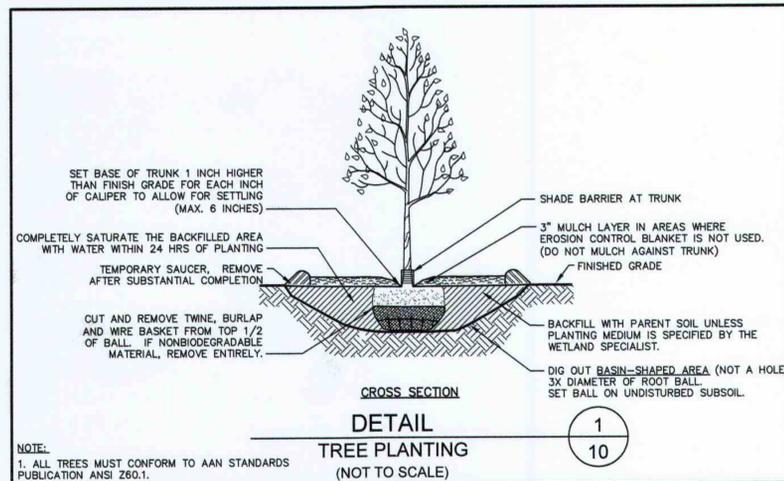
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PLANTING LEGEND, SCHEDULE AND NOTES



- PLANTING NOTES**
- THE CONSISTENCY OF THE MANMADE TOPSOIL SHOULD BE LOOSE TO FRIABLE. TO ENSURE PROPER CONSISTENCY, RAKING, OR OTHER EQUIVALENT METHOD, SHOULD BE USED. TO ACHIEVE FINAL GRADES, THE SOURCE OF BACKFILL SHOULD BE APPROVED ORGANIC-RICH TOPSOIL. THE TOPSOIL SHALL BE REASONABLY FREE OF STUMPS, ROOTS, HEAVY OR STIFF CLAY, STONES LARGER THAN ONE INCH IN DIAMETER, LUMPS, COARSE SAND, NOXIOUS WEEDS, STICKS, BRUSH OR OTHER LITTER. IF STOCKPILING OF SOIL IS NECESSARY, MATERIAL MUST BE KEPT WET AND COVERED TO PREVENT LEACHING AND SEDIMENT TRANSPORT. ADDITIONAL ROCKS OR DEAD FALL (LOGS AND STUMPS) MAY BE ADDED TO THE RESTORED WETLAND AT THE DISCRETION OF THE WETLAND SPECIALIST.
 - MANMADE TOPSOIL SHALL CONSIST OF A MIXTURE OF EQUAL VOLUMES OF IMPORTED ORGANIC AND MINERAL MATERIALS. WELL-DECOMPOSED CLEAN LEAF COMPOST IS THE PREFERRED SOIL AMENDMENT TO ACHIEVE THESE STANDARDS, ALTHOUGH OTHER SOIL AMENDMENTS MAY ALSO BE USED.
 - BUFFER ZONE/UPLAND SEEDING AREAS WITHIN STAGING AREAS SHALL BE TOP DRESSED WITH 3-INCHES OF TOPSOIL TO PROTECT SEEDING.
 - SOIL AMENDMENTS SHALL BE CLEAN AND FREE OF WEED SEEDS.
 - MANMADE TOPSOIL PROPOSED TO BE USED WITHIN THE SCRUB-SHRUB WETLAND RESTORATION AREA SHALL CONSIST OF 12% ORGANIC CARBON WHEREAS MANMADE TOPSOIL PROPOSED TO BE USED WITHIN THE EMERGENT MARSH WETLAND RESTORATION AREAS SHALL CONSIST OF 4-6% ORGANIC CARBON.
 - SEEDING: THE TIME OF WETLAND SEEDING SHALL BE PREFERABLY BETWEEN OCTOBER 15TH AND NOVEMBER 15TH OR ALTERNATIVELY BETWEEN APRIL 1ST AND MAY 15TH.
 - PLANTING: THE TIME OF WETLAND PLANTING SHALL BE BETWEEN APRIL 15TH AND MAY 30TH OR BETWEEN SEPTEMBER 1ST AND OCTOBER 15TH.
 - AT THE TIME OF WETLAND SEED MIX APPLICATION, THERE SHALL BE NO PONDING. AT THE TIME OF PLANTING (HERBACEOUS MATERIAL) THE PONDING ELEVATION SHALL BE NO GREATER THAN THE HEIGHT OF THE PLANT MATERIALS.
 - ALL RESTORED AREAS REQUIRE INSTALLATION OF EROSION CONTROL BLANKETS FOLLOWING EXCAVATION AND BACKFILL BUT PRIOR TO PLANTING. TEMPORARY STEEL SHEETING TO BE REMOVED FOLLOWING EXCAVATION, BACKFILL AND PLACEMENT OF EROSION CONTROL BLANKETS TO THE EXTENT PRACTICAL, REFER TO NOTE 5 ON DRAWING NO. 5. EROSION CONTROLS OUTSIDE THE SHEETPILE ALIGNMENT TO REMAIN IN-PLACE UNTIL PLANTINGS ARE ESTABLISHED.
 - THE SUPERVISORY WETLAND SPECIALIST SHALL RESERVE THE RIGHT TO REJECT WETLAND PLANT SPECIES UPON DELIVERY BASED UPON PLANT VIGOR/CONDITION, UNAUTHORIZED SUBSTITUTION AND/OR NON CONFORMANCE WITH THE PLANS AND SPECIFICATIONS.
 - THE WETLAND RESTORATION AREA SHALL BE EVALUATED DURING EACH OF THE FIRST FIVE GROWING SEASONS TO DETERMINE THE SUCCESS OF SEED GERMINATION AND PLANT SURVIVAL. ANNUAL REPORTS SHALL BE FILED WITH THE LOCAL, STATE AND FEDERAL REGULATORY AGENCIES AFTER EACH GROWING SEASON INCLUDING A DESCRIPTION OF EXISTING CONDITIONS, PHOTOGRAPH DOCUMENTATION AND AN ACCOUNT OF ANY CORRECTIVE ACTION IF NECESSARY. TO ACHIEVE LOCAL, STATE AND FEDERAL SUCCESS STANDARDS, ADDITIONAL/SUPPLEMENTAL PLANTING AND/OR CORRECTIVE MEASURES SHALL BE IMPLEMENTED TO ENSURE THAT AT LEAST 75% OF THE WETLAND RESTORATION SURFACE AREA IS ESTABLISHED WITH INDIGENOUS WETLAND PLANT SPECIES WITHIN TWO COMPLETE GROWING SEASONS.

SYMBOL

Scrub Shrub/Forested Wetland Planting Plan
Former Amesbury MGP
(32,671 square feet of restoration)

Plant Species (Common Name)	Plant Species (Latin Name)	Spacing	Size	Quantity
Red Maple	<i>Acer rubrum</i>	7' O.C.	4'-6"	120
River Birch	<i>Betula nigra</i>	7' O.C.	4'-6"	66
Black Willow	<i>Salix nigra</i>	7' O.C.	4'-6"	65
Green Ash	<i>Fraxinus pennsylvanica</i>	7' O.C.	4'-6"	30
Speckled Alder	<i>Alnus incana</i>	7' O.C.	24'-36"	105
Red Osier Dogwood	<i>Cornus sericea</i>	7' O.C.	24'-36"	80
Northern Arrowwood	<i>Viburnum recognitum</i>	7' O.C.	24'-36"	80
Total Number of Plants				546
New England Wetmix (or equivalent) available through New England Wetland Plants, Inc., Amherst, MA				Apply: 11b/5000 sf
				7 lbs

- Planting Details**
- Density is based on the Army Corps of Engineers forested wetland ratio of 600 trees & shrubs/acre (with consideration that the cover type is a mixture of scrub shrub and forested wetlands).
 - Plant source will be from New England Wetland Plants in Amherst, Massachusetts or equivalent.
 - Seed will be applied at the New England Wetland Plant's suggested seed rate of 11b/5000 sf for understory planting.
 - At least five percent of the down logs and branches observed within the impact areaset will be aside. This coarse woody debris will be scattered throughout the restoration area once grading is completed and before planting is started.
 - A qualified wetland scientist will be on-site during excavation, grading and planting. Field changes, if needed, will be made accordingly.

SYMBOL

Central Emergent Marsh
Wetland Planting Plan
Former Amesbury MGP
(7,841 square feet of restoration)

Plant Species (Common Name)	Plant Species (Latin Name)	Spacing	Size	Quantity
River bulrush	<i>Scirpus thalassifolius</i>	3' O.C.	2" plug	500
Sweetflag	<i>Acorus calamus</i>	3' O.C.	2" plug	100
Swamp milkweed	<i>Asclepias incarnata</i>	3' O.C.	2" plug	143
Manna grass	<i>Glyceria canadensis</i>	3' O.C.	2" plug	140
Total Number of Plants				883

- Planting Details**
- Herbaceous plants will be planted throughout the restoration area according to the Army Corps of Engineers uniform herbaceous ratio of 3 feet on center for rhizome spreading species.
 - Plant source will be from New England Wetland Plants in Amherst, Massachusetts or equivalent.

SYMBOL

Buffer Zone/ Upland Seed Area
Planting Plan
Former Amesbury MGP
(1,237 square feet of restoration)

Seed Type	Application Rate	Quantity
New England Wildflower Mix	1 lb./ 3,000 s.f.	1 lb.

SYMBOL

Upland Restoration Area Planting Plan*
Former Amesbury MGP
(13,679 square feet of restoration)

Plant Species (Common Name)	Plant Species (Latin Name)	Spacing	Size	Quantity
Red Maple	<i>Acer rubrum</i>	15' O.C.	4'-6"	30
Black Cherry	<i>Prunus serotina</i>	15' O.C.	4'-6"	20
Northern Red Oak	<i>Quercus rubra</i>	15' O.C.	4'-6"	30
White Ash	<i>Fraxinus americana</i>	15' O.C.	4'-6"	10
Gray Dogwood	<i>Cornus racemosa</i>	8' O.C.	3'-4"	50
Northern Arrowwood	<i>Viburnum recognitum</i>	8' O.C.	3'-4"	100
Nannyberry	<i>Viburnum lentago</i>	8' O.C.	3'-4"	50
Coastal Sweet Pepperbush	<i>Clethra alnifolia</i>	8' O.C.	3'-4"	110
Total Number of Plants				390
New England Conservation/Wildlife Mix (or equivalent) available through New England Wetland Plants, Inc., 820 West Street, Amherst, MA 01002 (413) 548-8000				Apply: 25 lbs/acre
				12 lbs

- Planting Details**
- Density is based on the Department of Environmental Protection Replication Guidelines document dated March 2002.
 - Plant source will be from New England Wetland Plants in Amherst, Massachusetts or equivalent.
 - All trees will be planted 15 feet on center throughout the upland area except red maple; which will be planted in closer proximity to the restoration area.
 - All shrubs will be planted 8 feet on center throughout the upland area except northern arrowwood and sweet pepperbush; which will be planted in closer proximity to the restoration area.
 - Seed will be distributed throughout the upland area at a rate of 25lbs/acre.
 - Between five to ten percent of the down logs and branches observed within the impact area will be set aside. This coarse woody debris will be scattered throughout the upland restoration area once grading is complete and prior to planting.
 - A qualified wetland scientist will be on site during excavation, grading and planting. Field changes, if needed, will be made accordingly.
- * Includes Riverfront Area, Bordering Land Subject to Flooding and Buffer Zone.

SYMBOL

Riverside Emergent Marsh
Wetland Planting Plan
Former Amesbury MGP
(2,165 square feet of restoration)

Plant Species (Common Name)	Plant Species (Latin Name)	Spacing	Size	Quantity
Pickereelweed	<i>Pontederia cordata</i>	3' O.C.	2" plug	75
Blue flag iris	<i>Iris versicolor</i>	3' O.C.	2" plug	75
Three-square bulrush	<i>Scirpus americanus</i>	3' O.C.	2" plug	64
Burreed	<i>Sparganium americanum</i>	3' O.C.	2" plug	64
Total Number of Plants				278

- Planting Details**
- Herbaceous plants will be planted throughout the restoration area according to the Army Corps of Engineers uniform herbaceous ratio of 3 feet on center for rhizome spreading species.
 - Plant source will be from New England Wetland Plants in Amherst, Massachusetts or equivalent.
 - Pickereelweed will be planted in a line 3 feet on center closest to the Powwow River edge.
 - Blue flag iris will be planted in a line 3 feet on center directly up-gradient of the pickereelweed.
 - Burreed will be planted in a line 3 feet on center directly up-gradient of the blue flag iris.
 - Three square bulrush will be planted in a line 3 feet on center directly up-gradient of the burreed.

3	MODIFICATION TO NOTE 9, REVISIONS TO UPLAND AREA RESTORATION PLANTING PLAN	GBS	04/08/2015
2	FOR DATE ONLY		09/11/2014
1	REVISED BASE PLAN AND DETAILS		06/04/2014
0	FOR PERMITTING		09/09/2013
NO.	ISSUE/DESCRIPTION	BY	DATE

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AMENDMENT TO ORDER OF CONDITIONS PERMITTING PLANS
AMESBURY FORMER MGP
AMESBURY, MASSACHUSETTS

PLANTING PLAN DETAILS

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: BOSTON GAS COMPANY D/B/A NATIONAL GRID
PREPARED BY: BEALS + THOMAS Civil Engineers + Landscape Architects + Land Surveyors + Planners + Environmental Specialists	REVIEWED BY: DRS PROJ MGR: GBS DESIGNED BY: GBS DRAWN BY: SMW
PROJ. NO. 05.0045394.00	SCALE: AS NOTED
DATE: 04-08-2015	
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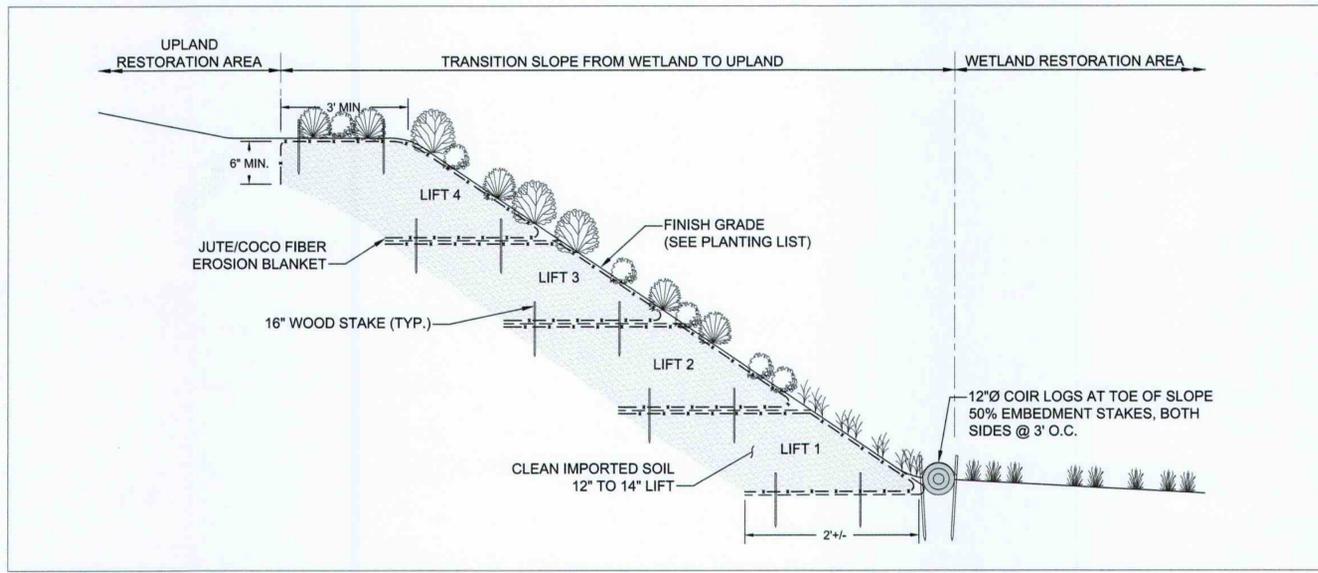
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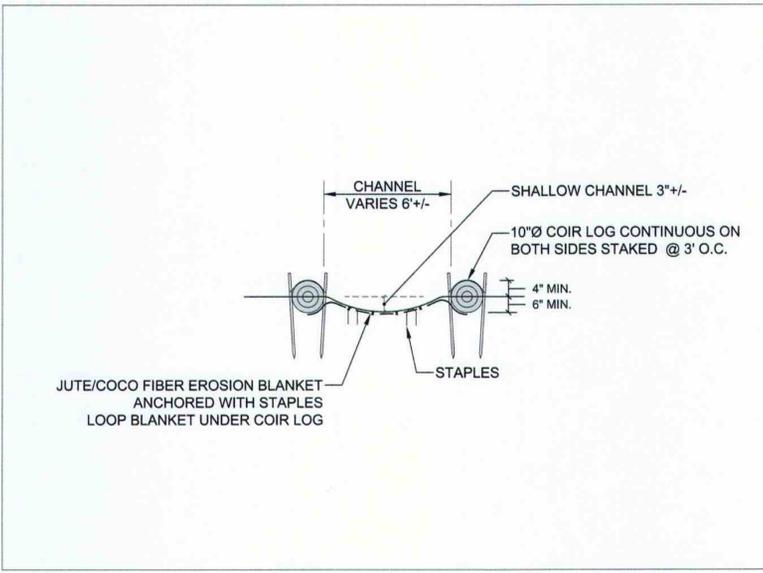
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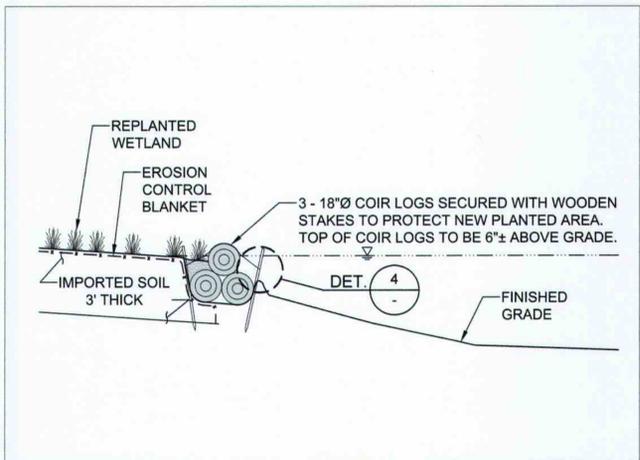
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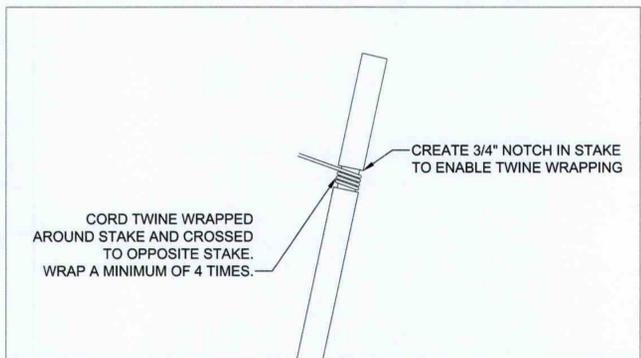
DETAIL 1
SLOPE STABILIZATION
(NOT TO SCALE) 10



DETAIL 2
TYPICAL STREAM CHANNEL STABILIZATION
(NOT TO SCALE) 10



DETAIL 3
TYPICAL RIVERBANK STABILIZATION
(NOT TO SCALE) 10



DETAIL 4
STAKE AND CORD TWINE
(NOT TO SCALE) -

- NOTES:**
- ALL ELEVATIONS REFER TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).
 - FOR ADDITIONAL NOTES AND REFERENCES SEE DWG. NO. 2.

3	FOR DATE ONLY	GBS	04/08/2015
2	FOR DATE ONLY		09/11/2014
1	REVISED BASE PLAN AND DETAILS		06/04/2014
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AMESBURY FORMER MGP
AMESBURY, MASSACHUSETTS**

RESTORATION DETAILS	
 GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	BOSTON GAS COMPANY D/B/A NATIONAL GRID
PREPARED BY: BEALS + THOMAS Civil Engineers + Landscape Architects + Land Surveyors + Planners + Environmental Specialists	REVIEWED BY: DRS PROJ MGR: GBS DESIGNED BY: GBS DRAWN BY: SMW
PROJ. NO. 05.0045394.00 SCALE: AS NOTED	DATE: 04-08-2015

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