



MACTEC Engineering and Consulting, P.C.
 Shipping Address: 511 Congress Street, Portland, Maine 04101
 Telephone: (207) 775-5401 Facsimile: (207) 772-4762

FIELD ORDER SUMMARY

Project: Saranac Lake Gas Co. Remedial Action	Project Location: Village of Saranac Lake, Essex County, New York
Client: NYSDEC	NYSDEC Site No.: 516008
Contractor: LAND Remediation, Inc.	MACTEC Project No.: 3611181219

FO No.	Description	Date Received	Date Authorized	Associated RFI	Associated PCO	Comments /Status
1	Post-confirmation samples shall be collected and composite samples composed of sediment from each post-confirmation sample shall be generated. Analyze composite samples and compare results with applicable SCO for Class A sediment. If SCOs are not met for composite samples, the discrete samples from which the specific composite was generated from will be analyzed for the COCs that exceeded acceptable limits.	07/16/18	07/16/18	NA	NA	
2	Demarcation/barrier layer specified material and alternative materials.	07/20/18	07/20/18	2 (revised)	NA	Work shall proceed with Aquablok; neither Bentomat CL geosynthetic clay liner (GCL) nor Reactive Core Mat is approved as an alternative.
3	Brandy Brook erosion controls to allow cleaning of the twin 24-inch culverts under Lake Flower Avenue prior to completing the Brandy Brook OU02 remediation.	07/20/18	07/23/18	NA	NA	
4	MACTEC reiterates survey requirements to approve dredge areas for sampling. Dredge areas 5 through 8 were approved for sampling.	07/30/18	07/30/18	NA	NA	Dredge areas 5 through 8 approved for confirmation sampling.
5	LAND is to provide a corrective action plan to address issue of turbidity outside the curtain.	09/11/18	09/11/18	NA	NA	LAND placed a second and third turbidity curtain, and ceased backfill.
6	Restoration of TFS and barge pier bulkhead areas.	10/12/18	10/12/18	NA	PCO 6-Rev 1	
7	Over-placement of riprap, need to move some of it to an area with no riprap.	10/15/18	10/15/18	NA	PCO 4 & PCO 6 Rev-1	
8	Dewatering Management During OU02 Excavation Activities. No soil with free liquids shall be loaded into trucks.	11/06/18	11/06/18	NA	NA	
9	Topsoil placement on the Village Park Property. Wait until spring 2019 to place topsoil at Village Park	11/02/18	11/02/18	NA	NA	
10	Cold Weather Protection Measures. Provide and maintain cold weather protection to avoid further lost time.	11/13/18	11/13/18	NA	NA	

Project: Saranac Lake Gas Co. Remedial Action	Project Location: Village of Saranac Lake, Essex County, New York
Client: NYSDEC	NYSDEC Site No.: 516008
Contractor: LAND Remediation, Inc.	MACTEC Project No.: 3611181219

FO No.	Description	Date Received	Date Authorized	Associated RFI	Associated PCO	Comments /Status
11	Modify driveway culvert footing to accommodate existing residential sanitary sewer service lateral.	11/28/18	11/28/18	NA	NA	Modification implemented as instructed.
12	Install rock check dams at OU02 for erosion control during winter weather.	12/05/18	12/05/18	NA	NA	Implemented as instructed.
13	Revised restoration at boat launch parking area.	05/02/19	05/09/19	NA	NA	
14	Guard rail replacement at new driveway culverts.	06/03/19	06/03/19	NA	NA	
15	Tree planting and grading at OU03 in accordance with the Prescott Park Landscaping Plan.	06/03/19	06/04/19	NA	PCO 4	

FIELD ORDER

Project Name:	Saranac Lake Gas Company, Remedial Action	FO No.: 1
Project Location:	Village of Saranac Lake, Essex County, New York	Date Issued: 7/17/2018
		Site No.: 516008
Client:	New York State Department of Environmental Conservation (Department)	Contract No.: D010663
Contractor:	LAND Remediation, Inc.	Associated RFI or PCO: <input type="checkbox"/> RFI No. ___ <input checked="" type="checkbox"/> PCO No. 4 <input type="checkbox"/> None
MACTEC Project No.:	3611181219	

CHANGE

Consistent with the requirements set forth in Section VIII, Article 9, Paragraph 9.2 of the Contract Documents, changes to the Work that do not involve an adjustment to Contract Price or Contract Time shall be authorized via a Field Order (FO), which shall be binding on the Department and the Contractor who shall perform such changes promptly. If the Contractor believes that a change to the Work justifies an adjustment to Contract Price or Contract Time the Contractor shall make written notification to the Engineer within three days and provide a Proposed Change Order (PCO) to the Engineer within fifteen days. All FOs shall be consecutively numbered and will address only one issue.

Description of Change to the Work:

Post-confirmation samples shall be collected as specified in Section 01 45 28 of the contract specifications and consist of the collection of discrete samples from each of the 18 dredge areas as shown on Figure 1. Sediment from each discrete sample within each area of the 18 dredge areas shall be used to make a composite sample representing the respective dredge areas. The 18 composite samples and 65 discrete samples shall be sent to the approved laboratory. The laboratory shall analyze the 18 composite samples per Section 01 45 28 of the contract specifications and archive the 65 discrete samples pending review of the composite sample results. Composite sample analytical results will be compared to the applicable Sediment Cleanup Objectives for the Class A Sediment Criteria for the identified primary contaminants of concern (COC) for the Site. If cleanup objectives are not met based on the results of the composite sample for each of the 18 areas, the representative discrete samples for that area(s) shall be analyzed for the COC(s) that exceeded the acceptable limits.

Reason for Change to the Work:

- Unforeseen or Differing Site Conditions
- Design Revision
- Owner/Department Request
- Other: Provided Supplemental Information

Attachments: Yes No

If yes, describe: Figure 1 – Confirmation Sediment Sampling Plan

Relevant Contract Documents:

FO Initiated By: Jason Raimondi

Date: 7/16/2018



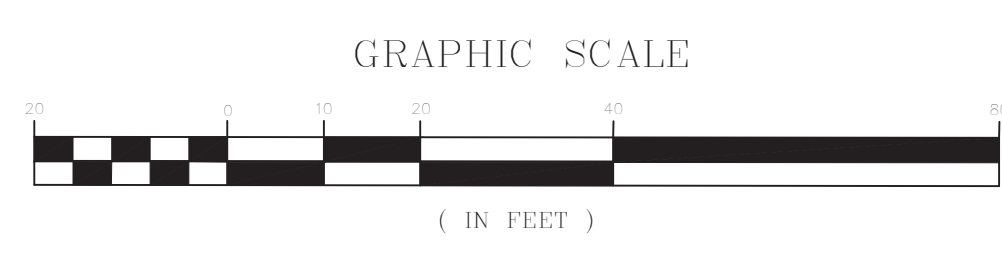
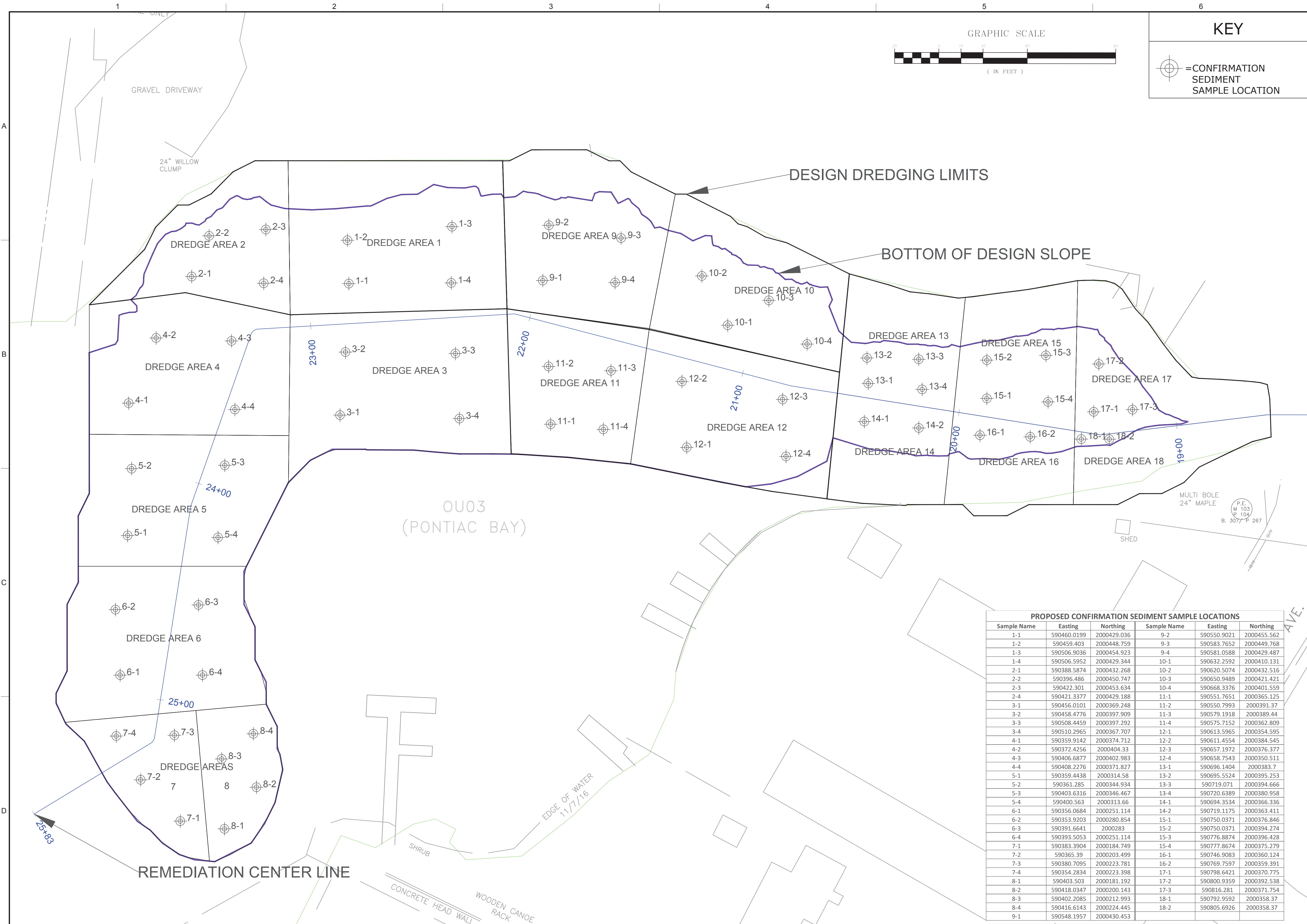
MACTEC Engineering and Consulting, P.C.
511 Congress Street, Suite 200, Portland, Maine 04101
Telephone: (207) 775-5401, Facsimile: (207) 772-4762

AUTHORIZATION

MACTEC Comments:

MACTEC Review:

Individual	Discipline	Initial	Date
Mark Stelmack, PE	Engineer of Record	MJS	7/16/2018
Mark Peters	Remediation Engineer		
Jason Raimondi	Project Engineer		



KEY	
	= CONFIRMATION SEDIMENT SAMPLE LOCATION

PROPOSED CONFIRMATION SEDIMENT SAMPLE LOCATIONS					
Sample Name	Easting	Northing	Sample Name	Easting	Northing
1-1	590460.0199	2000429.036	9-2	590550.9021	2000455.562
1-2	590459.403	2000448.759	9-3	590583.7652	2000449.768
1-3	590506.9036	2000454.923	9-4	590581.0588	2000429.487
1-4	590506.5952	2000429.344	10-1	590632.2592	2000410.131
2-1	590388.5874	2000432.268	10-2	590620.5074	2000432.516
2-2	590396.486	2000450.747	10-3	590650.9489	2000421.421
2-3	590422.301	2000453.634	10-4	590668.3376	2000401.559
2-4	590421.3377	2000429.188	11-1	590551.7651	2000365.125
3-1	590456.0101	2000369.248	11-2	590550.7993	2000391.37
3-2	590458.4776	2000397.909	11-3	590579.1918	2000389.44
3-3	590508.4459	2000397.292	11-4	590575.7152	2000362.809
3-4	590510.2965	2000367.707	12-1	590613.5965	2000354.595
4-1	590359.9142	2000374.712	12-2	590611.4554	2000384.545
4-2	590372.4256	2000404.33	12-3	590657.1972	2000376.377
4-3	590406.6877	2000402.983	12-4	590658.7543	2000350.511
4-4	590408.2276	2000371.827	13-1	590696.1404	2000383.7
5-1	590359.4438	2000314.58	13-2	590695.5524	2000395.253
5-2	590361.285	2000344.934	13-3	590719.071	2000394.666
5-3	590403.6316	2000346.467	13-4	590720.6389	2000380.958
5-4	590400.563	2000313.66	14-1	590694.3534	2000366.336
6-1	590356.0684	2000251.114	14-2	590719.1175	2000363.411
6-2	590353.9203	2000280.854	15-1	590750.0371	2000376.846
6-3	590391.6641	2000283	15-2	590750.0371	2000394.274
6-4	590393.5053	2000251.114	15-3	590776.8874	2000396.428
7-1	590383.3904	2000184.749	15-4	590777.8674	2000375.279
7-2	590365.39	2000203.499	16-1	590746.9083	2000360.124
7-3	590380.7095	2000223.781	16-2	590769.7597	2000359.391
7-4	590354.2834	2000223.398	17-1	590798.6421	2000370.775
8-1	590403.503	2000181.192	17-2	590800.9359	2000392.538
8-2	590418.0347	2000200.143	17-3	590816.281	2000371.754
8-3	590402.2085	2000212.993	18-1	590792.9592	2000358.37
8-4	590416.6143	2000224.445	18-2	590805.6926	2000358.37
9-1	590548.1957	2000430.453			

REVISION		ISSUED FOR DREDGE PROGRESS TRACKING	
NO.	DATE	MAP	MIS
0			

DR	CHK	APVD

REMEDIAL ACTION	SARANAC LAKE GAS CO., INC.
	SARANAC LAKE, NEW YORK
	NYSDEC SITE NUMBER - 516008

DATE	PROJ	3611-16-1193
DWG		
SHEET	1	OF 1

FIELD ORDER

Project Name:	Saranac Lake Gas Company, Remedial Action	FO No.: 2
Project Location:	Village of Saranac Lake, Essex County, New York	Date Issued: 7/20/2018
		Site No.: 516008
Client:	New York State Department of Environmental Conservation (Department)	Contract No.: D010663
Contractor:	LAND Remediation, Inc.	Associated RFI or PCO:
MACTEC Project No.: 3611181219		<input checked="" type="checkbox"/> RFI No.2 (revised) <input type="checkbox"/> PCO No. <input type="checkbox"/> None

CHANGE

Consistent with the requirements set forth in Section VIII, Article 9, Paragraph 9.2 of the Contract Documents, changes to the Work that do not involve an adjustment to Contract Price or Contract Time shall be authorized via a Field Order (FO), which shall be binding on the Department and the Contractor who shall perform such changes promptly. If the Contractor believes that a change to the Work justifies an adjustment to Contract Price or Contract Time the Contractor shall make written notification to the Engineer within three days and provide a Proposed Change Order (PCO) to the Engineer within fifteen days. All FOs shall be consecutively numbered and will address only one issue.

Description of Change to the Work:

Demarcation/barrier layer specified material and alternative materials.

Reason for Change to the Work:

- Unforeseen or Differing Site Conditions
- Design Revision
- Owner/Department Request
- Other: Provided Supplemental Information

Attachments: Yes No

If yes, describe:

Relevant Contract Documents:

Supplemental Specification 31 00 00, Part 2.09

FO Initiated By: Mark Peters

Date: 7/20/2018

AUTHORIZATION

MACTEC Comments:

1. Per the design, Aquablok – 2080W material is approved for use as the demarcation/barrier layer material.
2. Bentomat CL geosynthetic clay liner (GCL) is not approved for an alternative material for the demarcation/barrier layer. Supporting data provided does not indicate submerged installation for this GCL is appropriate.
3. Due to cost increase to the Project, Reactive Core Mat is not approved for an alternative material for the



demarcation/barrier layer. There is no impacted groundwater issue at the Site and the limited application of the demarcation/barrier layer would not impact groundwater flow.

MACTEC Review:

Individual	Discipline	Initial	Date
Mark Stelmack, PE	Engineer of Record	MJS	7/20/2018
Mark Peters	Remediation Engineer	MAP	7/20/2018
Jason Raimondi	Project Engineer		

FIELD ORDER

Project Name:	Saranac Lake Gas Company, Remedial Action	FO No.: 3
Project Location:	Village of Saranac Lake, Essex County, New York	Date Issued: 7/20/2018
		Site No.: 516008
Client:	New York State Department of Environmental Conservation (Department)	Contract No.: D010663
Contractor:	LAND Remediation, Inc.	Associated RFI or PCO:
MACTEC Project No.: 3611181219		<input type="checkbox"/> RFI No. <input type="checkbox"/> PCO No. <input checked="" type="checkbox"/> None (email w/ contractor approach)

CHANGE

Consistent with the requirements set forth in Section VIII, Article 9, Paragraph 9.2 of the Contract Documents, changes to the Work that do not involve an adjustment to Contract Price or Contract Time shall be authorized via a Field Order (FO), which shall be binding on the Department and the Contractor who shall perform such changes promptly. If the Contractor believes that a change to the Work justifies an adjustment to Contract Price or Contract Time the Contractor shall make written notification to the Engineer within three days and provide a Proposed Change Order (PCO) to the Engineer within fifteen days. All FOs shall be consecutively numbered and will address only one issue.

Description of Change to the Work:

Brandy Brook erosion controls to allow cleaning of the twin 24-inch culverts under Lake Flower Avenue prior to completing the Brandy Brook OU02 remediation

Reason for Change to the Work:

- Unforeseen or Differing Site Conditions
- Design Revision
- Owner/Department Request
- Other: Provided Supplemental Information

Attachments: Yes No

If yes, describe: email w/ contractor approach

Relevant Contract Documents:

Drawings C-106, C-301, and C-302

FO Initiated By: Mark Peters

Date: 7/23/2018

AUTHORIZATION

MACTEC Comments:

1. MACTEC has no issues with the proposed Contractor Brandy Brook control measure means and methods to allow cleaning of twin 24-inch culverts prior to completing the Brandy Brook soil and sediment excavation.
2. There may have to be some field adjustment if there are issues with the sand bags or check dams staying place during storm surges.



3. Field observations should be conducted to verify control measures are successful in capturing sediments prior to culvert inlets.

MACTEC Review:

Individual	Discipline	Initial	Date
Mark Stelmack, PE	Engineer of Record	MJS	7/23/2018
Mark Peters	Remediation Engineer	MAP	7/23/2018
Jason Raimondi	Project Engineer		

Peters, Mark A.

Subject: FW: FYI MACTEC Review Response: Brandy Brook Sediment Controls

From: Stelmack, Mark J. <mark.stelmack@woodplc.com>

Sent: Monday, July 16, 2018 1:11 PM

To: Saucier, Sarah K (DEC) <Sarah.Saucier@dec.ny.gov>

Cc: Peters, Mark A. <mark.peters@woodplc.com>; Matthew Warren <mjw@land-remediation.com>

Subject: FYI MACTEC Review Response: Brandy Brook Sediment Controls

Sarah:

See below MACTEC's response to sediment controls approach from Matt Warren.

From: Peters, Mark A. [<mailto:mark.peters@woodplc.com>]

Sent: Monday, July 16, 2018 12:29 PM

To: Stelmack, Mark J. <mark.stelmack@woodplc.com>; Matthew Warren <mjw@land-remediation.com>

Subject: RE: Brandy Brook Sediment Controls

Matt and Mark S.

I have no issues with the proposed approach. There may have to be some field adjustment if there are issues with the sand bags or check dams staying place during storm surges. Field observations should be conducted to verify control measures are successful in capturing sediments.

Mark P.

From: Stelmack, Mark J. [<mailto:mark.stelmack@woodplc.com>]

Sent: Sunday, July 15, 2018 8:49 AM

To: Matthew Warren <mjw@land-remediation.com>

Cc: Peters, Mark A. <mark.peters@woodplc.com>

Subject: RE: Brandy Brook Sediment Controls

Matt: Mark Peters will be sole MACTEC reviewer for this.

Mark P: Please review and provide email comment to Matt.

mark

From: Matthew Warren [<mailto:mjw@land-remediation.com>]

Sent: Saturday, July 14, 2018 12:37 PM

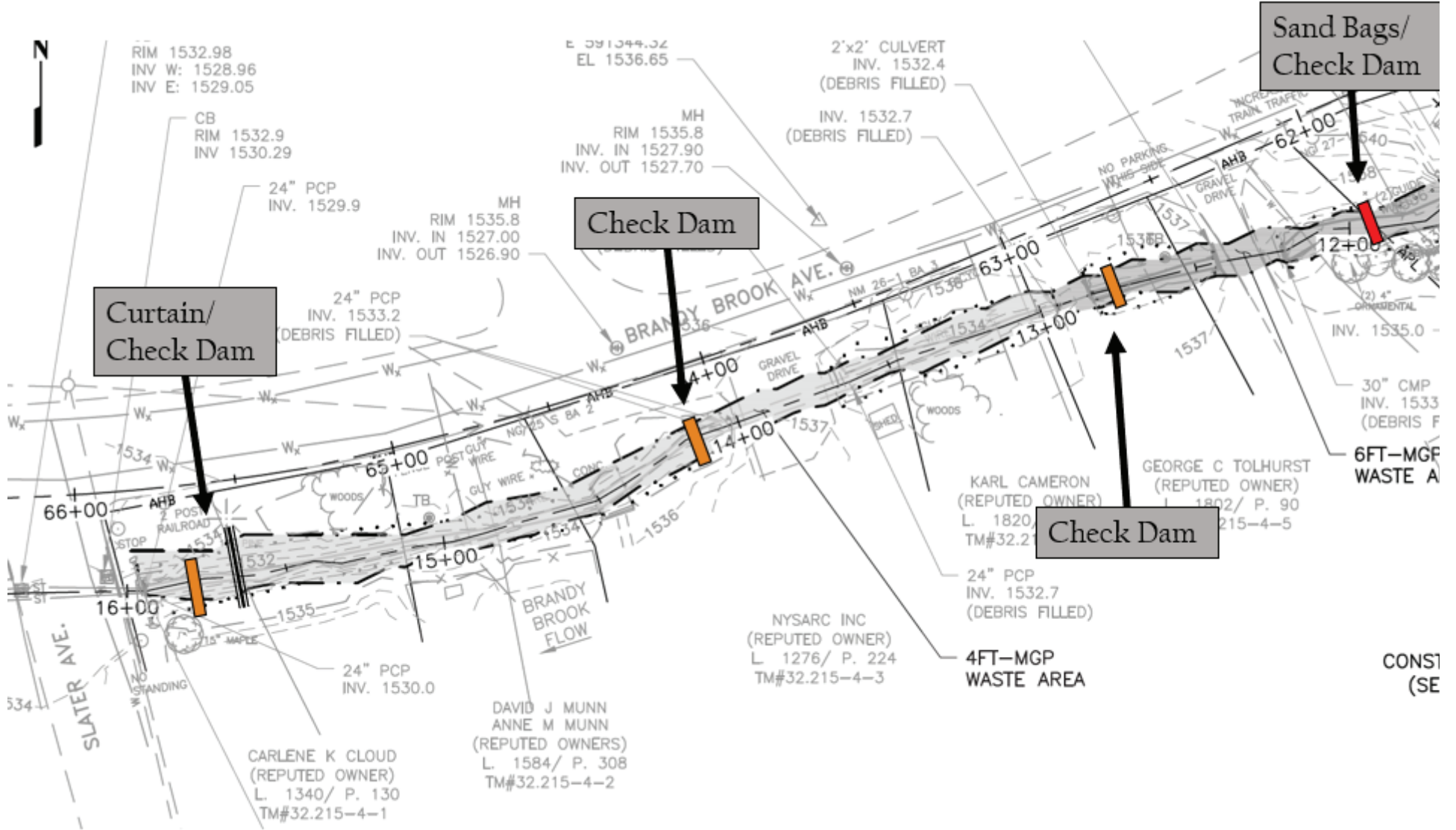
To: mark.stelmack (mark.stelmack@woodplc.com) <mark.stelmack@woodplc.com>; Pugh, Matt <matt.pugh@woodplc.com>

Cc: Mike Evens <mee@land-remediation.com>; Ethan Bradt <ejb@land-remediation.com>

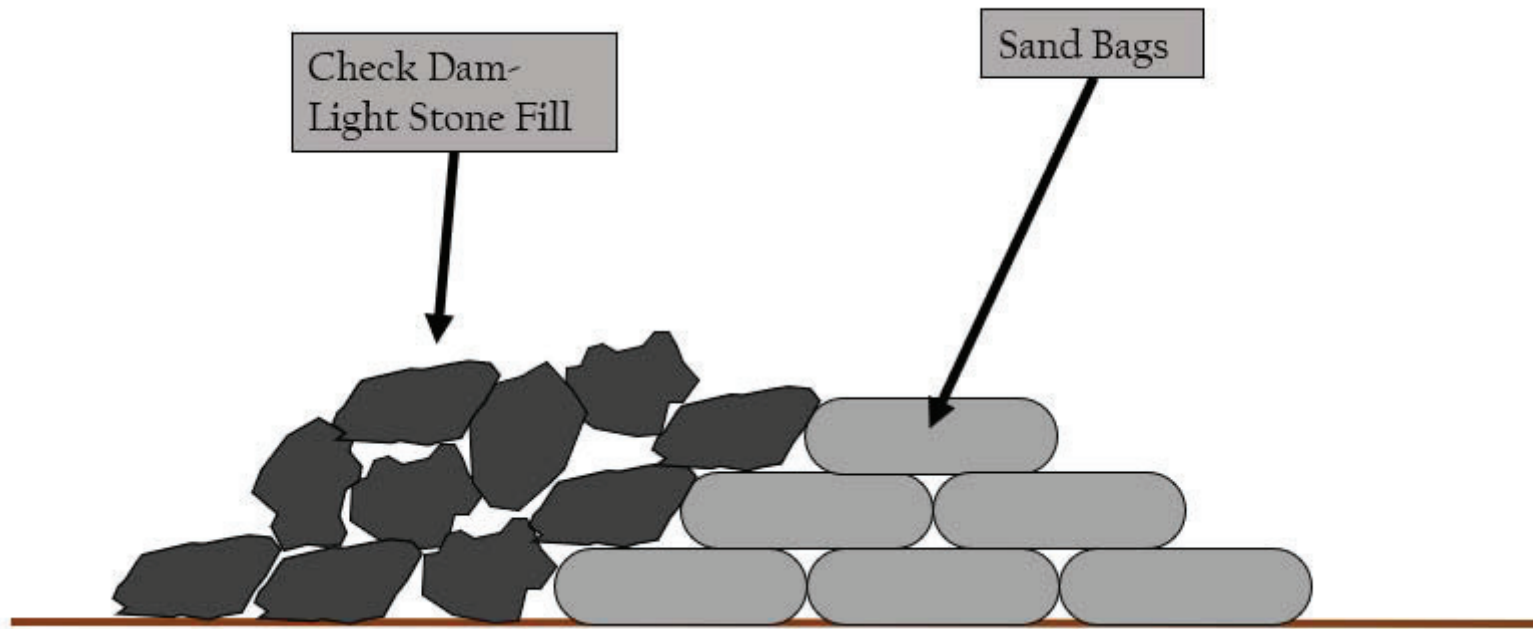
Subject: Brandy Brook Sediment Controls

Mark/ Matt-

Below are my concepts for the Brandy Brook Sediment controls. Locations are conceptual and will be determined in the field. The Bypass will discharge just upstream of the Railroad Culvert.

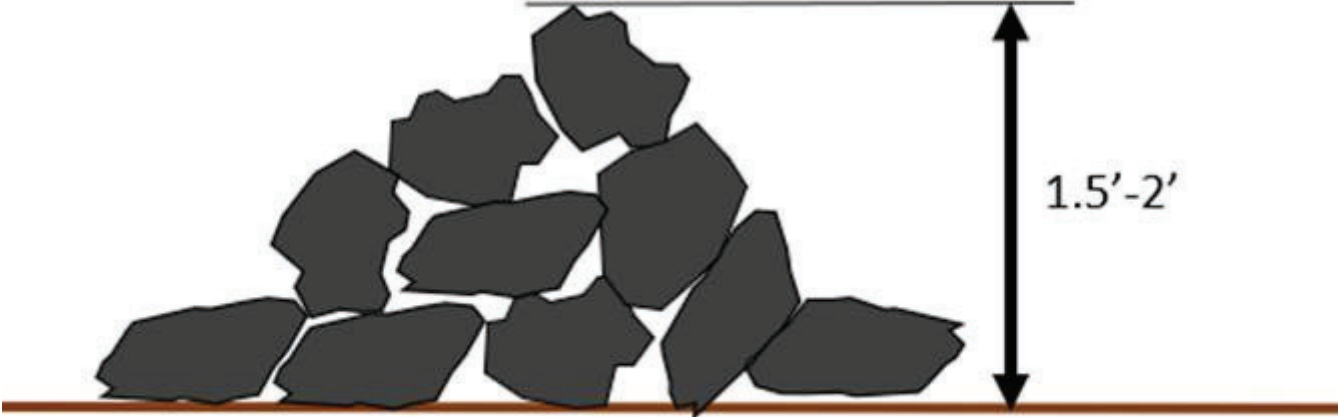


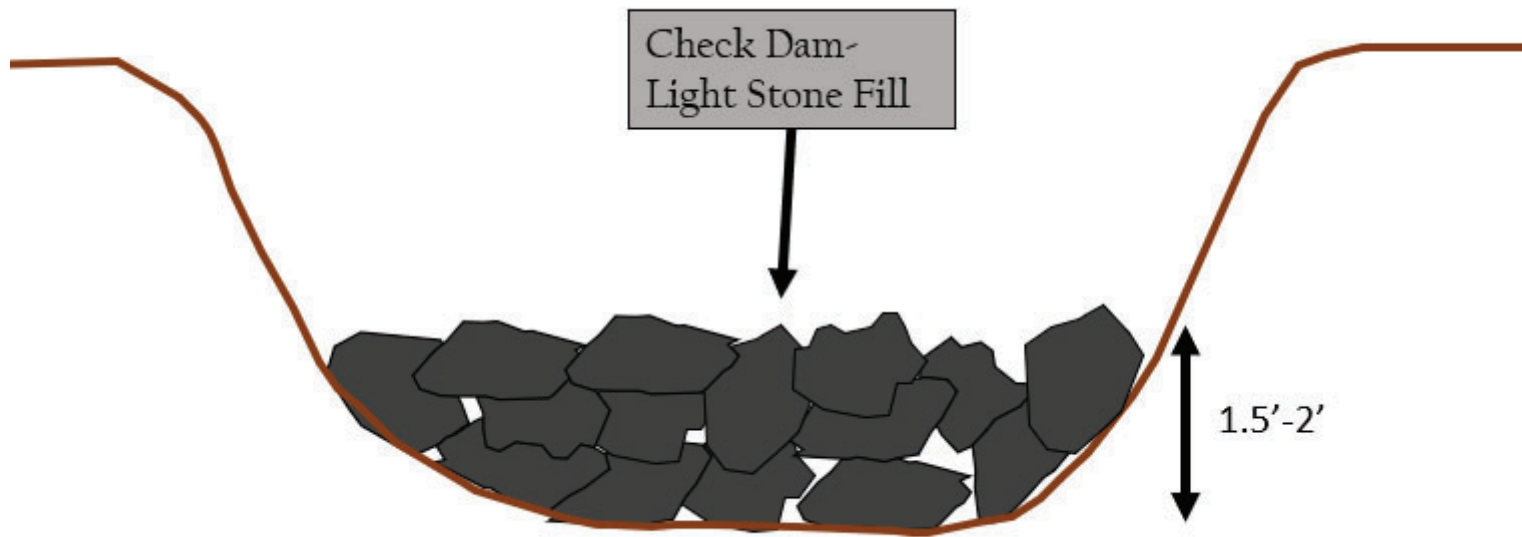
Sand Bag/ Check Dam- FYI- I still have doubts that the sand bags will remain in the event of a large storm surge



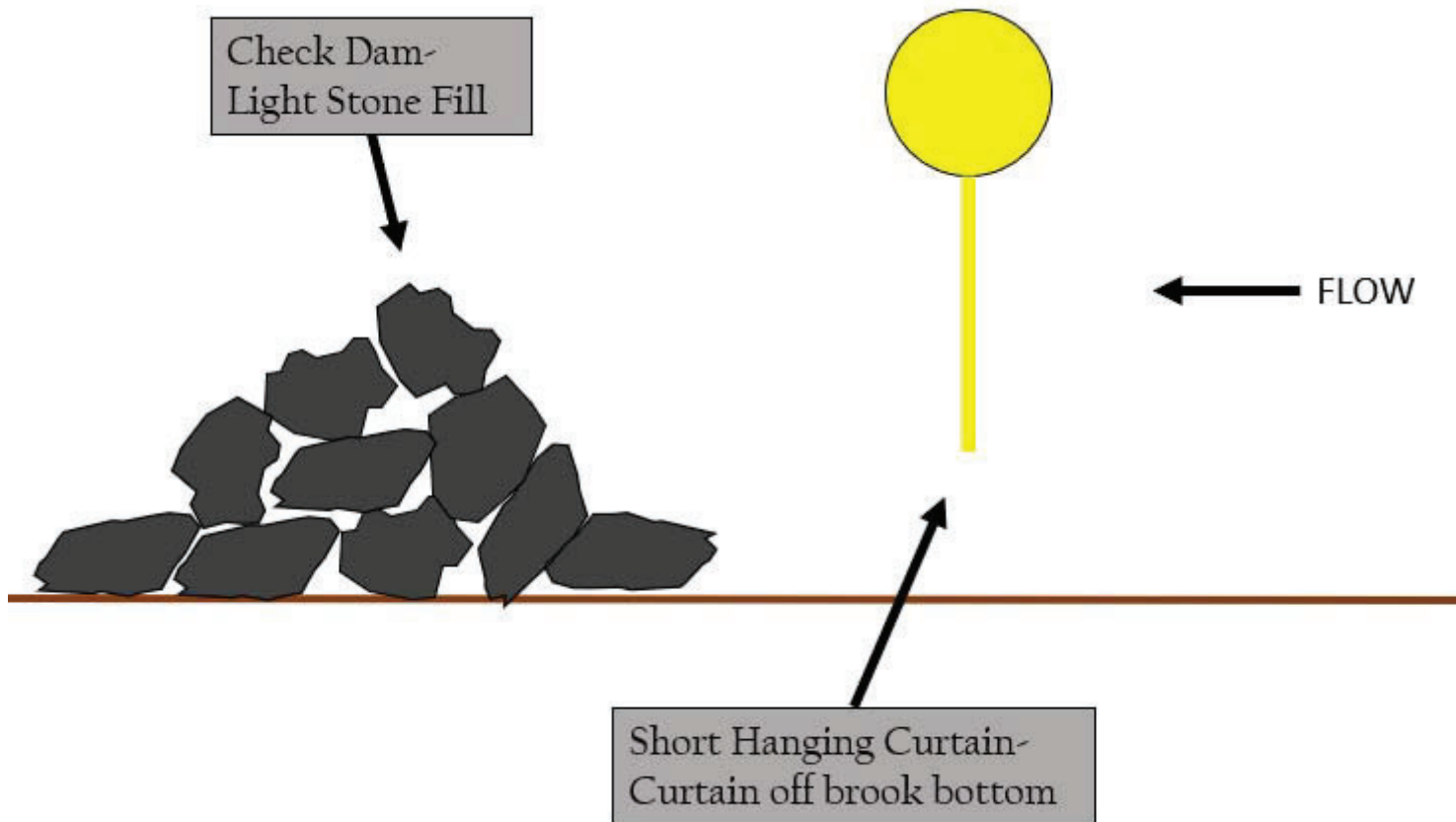
CHECK DAM

Check Dam-
Light Stone Fill





CHECK DAM/ SHORT SILT CURTAIN



Matt Warren
LAND Remediation, Inc.
74 Hudson River Road
Waterford, NY 12188
Cell: 315-418-6642
Phone: 518-766-4105
Fax: 518-233-0141
www.land-remediation.com

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FIELD ORDER

Project Name:	Saranac Lake Gas Company, Remedial Action	FO No.: 04
Project Location:	Village of Saranac Lake, Essex County, New York	Date Issued: 7/30/2018
		Site No.: 516008
Client:	New York State Department of Environmental Conservation (Department)	Contract No.: D010663
Contractor:	LAND Remediation, Inc.	Associated RFI or PCO:
MACTEC Project No.:	3611181219	<input type="checkbox"/> RFI No. ___ <input type="checkbox"/> PCO No. ___ <input checked="" type="checkbox"/> None

CHANGE

Consistent with the requirements set forth in Section VIII, Article 9, Paragraph 9.2 of the Contract Documents, changes to the Work that do not involve an adjustment to Contract Price or Contract Time shall be authorized via a Field Order (FO), which shall be binding on the Department and the Contractor who shall perform such changes promptly. If the Contractor believes that a change to the Work justifies an adjustment to Contract Price or Contract Time the Contractor shall make written notification to the Engineer within three days and provide a Proposed Change Order (PCO) to the Engineer within fifteen days. All FOs shall be consecutively numbered and will address only one issue.

Description of Change to the Work:

- 1) Submitted
 - a) LAND provided survey data collected on 7/24/2018 and submitted through email on 7/26/2018 requesting approval of Dredge Areas 4, 5 6, 7, and 8 for immediate post dredge sampling
- 2) Requirements
 - a) Current survey requirements for approval of a single beam survey are 5'x5' transects with points collected every foot. This was developed by LAND and MACTEC and acknowledged by LAND in email correspondence initiated 5/30/2018 ending on 6/13/2018 (attached). Contract requirements for multibeam survey were relaxed due to shallow water depth, feasibility, and high cost.
 - b) Current submittal requirements for approval of a dredge area(s) or approval to proceed with confirmation sampling is that the survey submittal must be for 2 or more dredge areas, and cells cannot be submitted for approval if the neighboring cell has not been initially dredged (If clean up passes are needed in an adjacent cell, the survey could still be submitted). This requirement developed through email correspondence initiated on 5/29/2018 ending on 6/13/2018 (attached).
- 3) Deficiencies
 - a) Dredge Area 4 is abutting an active dredge area (Dredge Area 2).
- 4) Direction
 - a) Dredge Areas 5, 6, 7, and 8 are approved as complete. Confirmation sampling may proceed in accordance with FO-1 (attached).

b) Dredge Area 2, 3, and 4 are either still being actively dredged with production dredging passes or are abutting active dredge areas. These are not approved or approved to proceed with confirmation sampling until those abutting areas are complete or undergoing final cleanup dredging per the attached email correspondence initiated on 5/29/2018, ending on 6/13/2018.

Reason for Change to the Work: <input type="checkbox"/> Unforeseen or Differing Site Conditions <input type="checkbox"/> Design Revision <input type="checkbox"/> Owner/Department Request <input checked="" type="checkbox"/> Other: Provided Supplemental Information	Attachments: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: FO-1 Email "Follow up from call on 5/29/2018" Email "Saranac Survey Run Lines"
Relevant Contract Documents:	
FO Initiated By: Jason Raimondi	Date: 7/30/2018

AUTHORIZATION

MACTEC Comments:

MACTEC Review:

Individual	Discipline	Initial	Date
Mark Stelmack, PE	Engineer of Record	MJS	7/30/2018
Mark Peters	Remediation Engineer		
Jason Raimondi	Project Engineer		

FIELD ORDER

Project Name:	Saranac Lake Gas Company, Remedial Action	FO No.: 1
Project Location:	Village of Saranac Lake, Essex County, New York	Date Issued: 7/17/2018
		Site No.: 516008
Client:	New York State Department of Environmental Conservation (Department)	Contract No.: D010663
Contractor:	LAND Remediation, Inc.	Associated RFI or PCO: <input type="checkbox"/> RFI No. ___ <input checked="" type="checkbox"/> PCO No. 4 <input type="checkbox"/> None
MACTEC Project No.:	3611181219	

CHANGE

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Reason for Change to the Work:

- Unforeseen or Differing Site Conditions
- Design Revision
- Owner/Department Request
- Other: Provided Supplemental Information

Attachments: Yes No

If yes, describe: Figure 1 – Confirmation Sediment Sampling Plan

Relevant Contract Documents:

FO Initiated By: Jason Raimondi

Date: 7/16/2018



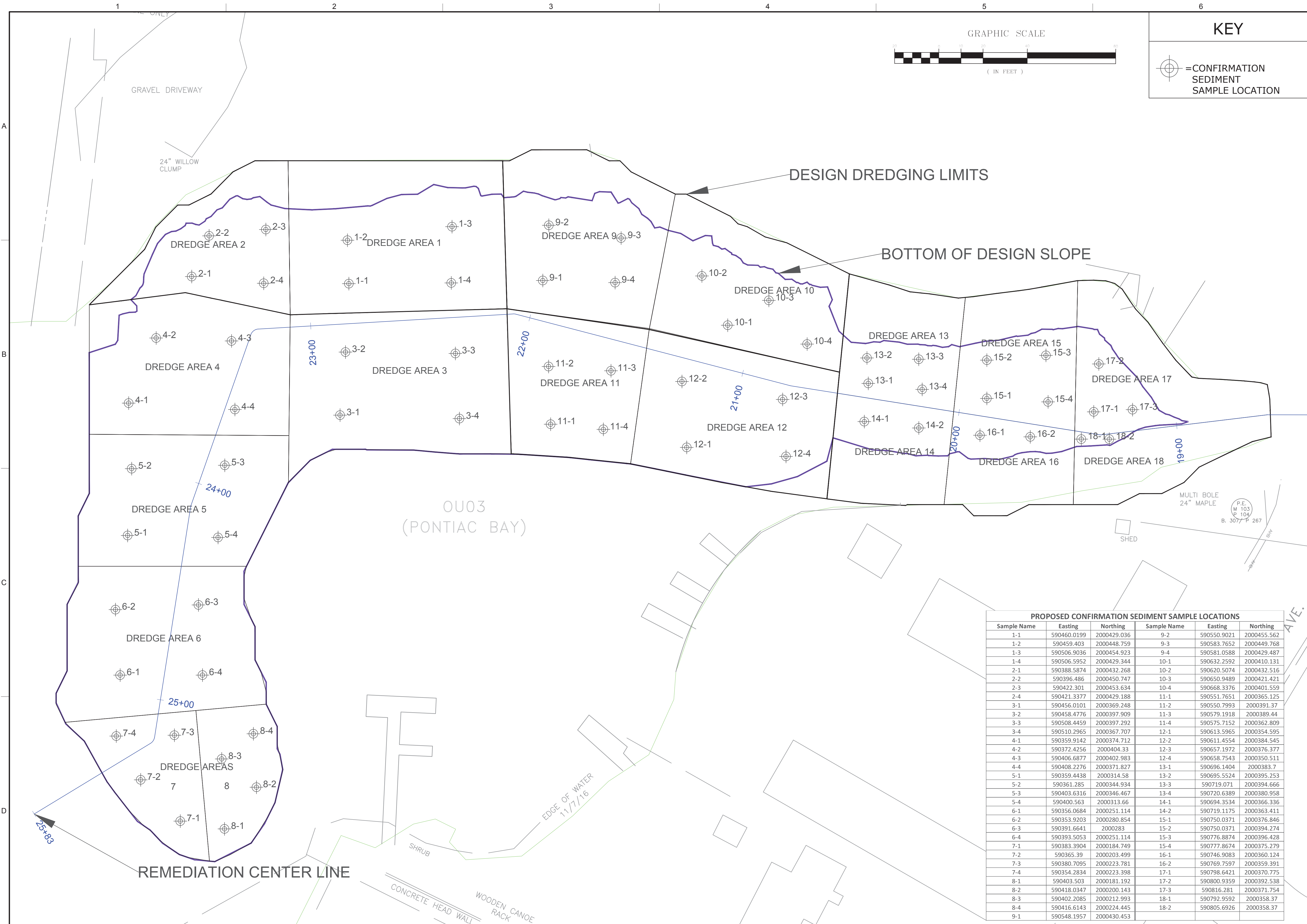
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Telephone: (207) 775-5401, Facsimile: (207) 772-4762

AUTHORIZATION

MACTEC Comments:

MACTEC Review:

Individual	Discipline	Initial	Date
Mark Stelmack, PE	Engineer of Record	MJS	7/16/2018
Mark Peters	Remediation Engineer		
Jason Raimondi	Project Engineer		



REVISION		ISSUED FOR DREDGE PROGRESS TRACKING	MAP	MILS
0	NO.	DATE	BY	APVD
DSGN	CHK	DR	APVD	
REMEDIAL ACTION				
SARANAC LAKE GAS CO., INC.				
SARANAC LAKE, NEW YORK				
NYSDEC SITE NUMBER - 516008				
FIGURE 1 CONFIRMATION SEDIMENT SAMPLING PLAN				
DATE	3611-16-1193			
PROJ	3611-16-1193			
DWG	3611-16-1193			
SHEET	1	OF	1	

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From: Matthew Warren
To: [Raimondi, Jason](#); [Zachary Novick](#)
Cc: [Lewis, Tyler](#); [Stelmack, Mark J.](#); [Mike Evens](#)
Subject: RE: Follow up from call on 5/29/2018
Date: Wednesday, June 13, 2018 1:18:51 PM
Attachments: [image001.png](#)

Thank you.

From: Raimondi, Jason <jason.raimondi@woodplc.com>
Sent: Wednesday, June 13, 2018 12:21 PM
To: Matthew Warren <mjw@land-remediation.com>; Zachary Novick <zan@land-remediation.com>
Cc: Lewis, Tyler <tyler.lewis@woodplc.com>; Stelmack, Mark J. <mark.stelmack@woodplc.com>; Mike Evens <mee@land-remediation.com>
Subject: RE: Follow up from call on 5/29/2018

Matt,

Thank you for the response. We believe this is acceptable. Please let us know if you have any additional comment/questions.

Jason Raimondi

Environmental Engineer
Direct: +1 (978) 392 5407
Mobile: +1 (339) 532 8632
www.woodplc.com
(dba: Amec Foster Wheeler)



From: Matthew Warren [<mailto:mjw@land-remediation.com>]
Sent: Wednesday, June 13, 2018 9:39 AM
To: Raimondi, Jason <jason.raimondi@woodplc.com>; Zachary Novick <zan@land-remediation.com>
Cc: Lewis, Tyler <tyler.lewis@woodplc.com>; Stelmack, Mark J. <mark.stelmack@woodplc.com>; Mike Evens <mee@land-remediation.com>
Subject: RE: Follow up from call on 5/29/2018

Jason, Mark, Tyler- I know we discussed a few items in this offline but I'm not sure if we ever followed up on this officially. We have a few requests/ suggested modifications to these;

- *Survey submittal must be for 3 or more cells at a time.*
 - We would like to request to have the survey submittal reduced to **2** dredge areas rather than the 3 specified.

- *Cells cannot be surveyed for approval if the neighboring cell has not been dredged.*
 - We would also like to request that this requirement be modified to say that “Cells cannot be surveyed for approval if the neighboring cell has not been **initially** dredged. If clean up passes are needed in an adjacent cell, the survey could still be submitted if the other rules listed were adhered to.
 - The intent would be if a few inches from several high spots were needed to be cleaned up, that would not affect the surface of the neighboring cell submitted for clearance.

As always, we are open to further discussion if needed. Thanks -Matt

From: Raimondi, Jason <jason.raimondi@woodplc.com>

Sent: Tuesday, May 29, 2018 5:00 PM

To: Matthew Warren <mjw@land-remediation.com>; Zachary Novick <zan@land-remediation.com>

Cc: Gerhard, Thomas <thomas.gerhard@woodplc.com>; Hernandez, Cynthia <cynthia.hernandez@woodplc.com>; Platia, Olivia <olivia.platia@woodplc.com>; Lewis, Tyler <tyler.lewis@woodplc.com>; Stelmack, Mark J. <mark.stelmack@woodplc.com>; Peters, Mark A. <mark.peters@woodplc.com>

Subject: Follow up from call on 5/29/2018

Matt,

We are working to provide you an updated dredge surface with 3:1 perimeter slopes incorporated. We expect to have this to you by Thursday afternoon, possibly sooner.

Internal side slopes

We will continue to use the internal 3:1 side slopes for payment. However, 3:1 internal slopes are not required for approval. These slopes are to be consider the maximum payable quantity on the slope. The approval will be based on achieving the removal of all impacted material in each cut based on the box cut surface. For instance, 1:1 slopes between internal transitions will be acceptable and approved as long as the material has been removed to depth within each cut bound by the vertical limits of each cut. The external side slopes along the shoreline shall be 3:1.

Partial approval for dredge cells and surface

Partial approval will be acceptable under the following conditions:

- Survey submittal must be for 3 or more cells at a time.
- Cells cannot be surveyed for approval if there is a neighboring cell being actively dredged.
- Cells cannot be surveyed for approval if the neighboring cell has not been dredged.
- Barges cannot be loaded over cells that have been previously approved. If barges are observed being loaded over a previously approved cell, that cell may require resurvey as determined by Engineer and will be subject to additional dredging and re-approval as determined by Engineer at no additional cost to Owner.

Please feel free to call/email with any question or concerns.

Jason Raimondi

Environmental Engineer

Direct: +1 (978) 392 5407

Mobile: +1 (339) 532 8632

www.woodplc.com

(dba: Amec Foster Wheeler)



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From: [Raimondi, Jason](#)
To: [Matthew Warren](#); [Raimondi, Jason](#); [mark.stelmack \(mark.stelmack@woodplc.com\)](mailto:mark.stelmack@woodplc.com); [Lewis, Tyler](#); [Peters, Mark A.](#)
Cc: [Zachary Novick](#); [Hernandez, Cynthia](#); [Platia, Olivia](#)
Subject: RE: Saranac Survey Run Lines
Date: Wednesday, June 13, 2018 9:25:00 AM
Attachments: [image001.png](#)

Thanks Matt. That sounds like a plan. As we discussed, point density will be key. Gaps between point will likely require a resurvey of the area so the more you can grab the better.

Jason

From: Matthew Warren [mailto:mjw@land-remediation.com]
Sent: Wednesday, June 13, 2018 9:21 AM
To: Raimondi, Jason <jason.raimondi@woodplc.com>; mark.stelmack (mark.stelmack@woodplc.com) <mark.stelmack@woodplc.com>; Lewis, Tyler <tyler.lewis@woodplc.com>; Peters, Mark A. <mark.peters@woodplc.com>
Cc: Zachary Novick <zan@land-remediation.com>; Hernandez, Cynthia <cynthia.hernandez@woodplc.com>; Platia, Olivia <olivia.platia@woodplc.com>
Subject: RE: Saranac Survey Run Lines

Understood Jason. Like we talked about yesterday, we will shoot for the 5' spacing and with the natural movement of the boat we should end up with a dense enough coverage for your needs. Take a look when we send you the file for review and let us know if the density works for you. Thanks -Matt

From: Raimondi, Jason <jason.raimondi@woodplc.com>
Sent: Thursday, May 31, 2018 11:58 AM
To: Matthew Warren <mjw@land-remediation.com>; Raimondi, Jason <jason.raimondi@woodplc.com>; mark.stelmack (mark.stelmack@woodplc.com) <mark.stelmack@woodplc.com>; Lewis, Tyler <tyler.lewis@woodplc.com>; Peters, Mark A. <mark.peters@woodplc.com>
Cc: Zachary Novick <zan@land-remediation.com>; Hernandez, Cynthia <cynthia.hernandez@woodplc.com>; Platia, Olivia <olivia.platia@woodplc.com>
Subject: RE: Saranac Survey Run Lines

Matt –

We have reviewed and discussed internally that we will need more complete coverage. We would like to see 5'x5' transects with points collected every foot if using single beam. The main goal is to get complete and adequate coverage that is dense enough to identify potential inflection points on the surface. We understand the wind and other factors may move the survey boat off the transects and are more focused on data density than transects. The transects are just a means of obtaining that coverage. The surveyor can likely drive around and get as close as possible to the 5 x 5 transects then do a few passes diagonally or randomly through the transects to cover any gaps that may have occurred. The more points the better.

Let us know if you would like to discuss further over a call.

Jason Raimondi

Environmental Engineer

Direct: +1 (978) 392 5407

Mobile: +1 (339) 532 8632

www.woodplc.com

(dba: Amec Foster Wheeler)



From: Matthew Warren [<mailto:mjw@land-remediation.com>]

Sent: Wednesday, May 30, 2018 3:42 PM

To: Raimondi, Jason <jason.raimondi@woodplc.com>; mark.stelmack
(mark.stelmack@woodplc.com) <mark.stelmack@woodplc.com>; Lewis, Tyler
<tyler.lewis@woodplc.com>; Peters, Mark A. <mark.peters@woodplc.com>

Cc: Zachary Novick <zan@land-remediation.com>

Subject: Saranac Survey Run Lines

Gentlemen- Zach re-worked the survey transects and put them on 10 ft spacing rather than the 5' we talked about. The longitudinal transects are set at 25'. The proposed 5' transects are practically the width of the boat and would be hard to try and adhere to with wind blowing the survey boat. He also simplified the run lines to a more logical path. Our surveyor will also increase the density of points along the transects.

A little different from what we talked about but we thought it seemed logical and would provide enough information to meet the intent. Take a look and we can talk about it. Thanks, -Matt

Matt Warren

LAND Remediation, Inc.

74 Hudson River Road

Waterford, NY 12188

Cell: 315-418-6642

Phone: 518-766-4105

Fax: 518-233-0141

www.land-remediation.com

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FIELD ORDER

Project Name:	Saranac Lake Gas Company, Remedial Action	FO No.: 05
Project Location:	Village of Saranac Lake, Essex County, New York	Date Issued: 9/11/2018
		Site No.: 516008
Client:	New York State Department of Environmental Conservation (Department)	Contract No.: D010663
Contractor:	LAND Remediation, Inc.	Associated RFI or PCO:
MACTEC Project No.: 3611181219		<input type="checkbox"/> RFI No. ___ <input type="checkbox"/> PCO No. ___ <input checked="" type="checkbox"/> None

CHANGE

Consistent with the requirements set forth in Section VIII, Article 9, Paragraph 9.2 of the Contract Documents, changes to the Work that do not involve an adjustment to Contract Price or Contract Time shall be authorized via a Field Order (FO), which shall be binding on the Department and the Contractor who shall perform such changes promptly. If the Contractor believes that a change to the Work justifies an adjustment to Contract Price or Contract Time the Contractor shall make written notification to the Engineer within three days and provide a Proposed Change Order (PCO) to the Engineer within fifteen days. All FOs shall be consecutively numbered and will address only one issue.

Description of Change to the Work:

Reason for Change to the Work:

- Unforeseen or Differing Site Conditions
- Design Revision
- Owner/Department Request
- Other: Provided Supplemental Information Water Quality Permit violation

Attachments: Yes No

If yes, describe:

Relevant Contract Documents:

FO Initiated By: Tony Delano

Date: 9/11/2018

AUTHORIZATION

MACTEC Comments:

Over the weekend of Saturday 9/8/18 and Sunday 9/9/18 visual breaches of the turbidity curtain were observed and on 9/10/18 turbidity readings exceeding 50 NTUs above background were recorded at the Site. These exceedances occurred following backfilling operations in cells 17 and 18 (9/7/18) and cells 15 and 16 on 9/10/18. Visual breaches of the turbidity curtain have continued on 9/11/2018. In response to this, MACTEC is requiring LAND to immediately comply with and provide the following in accordance with the Contract:

1. In accordance with Specification Section 01 57 30 Marine Resuspension Controls, Part 1.04B, LAND shall stop backfill work in OU3 until corrected measures are approved. LAND shall identify possible causes of the turbidity exceedances which may include but are not limited to the following:
 - a. Excessive loss of backfill material and/or resuspension of bottom sediments during placement
 - b. Improper, damaged, and/or loosened anchoring and seam connections of the turbidity curtain
 - c. Movement of the curtain into the dredge prism area

2. Develop a path forward and submit to MACTEC for approval:
 - a. Prepare an implementation plan to ensure that backfill material and any resuspended bottom sediments are not being released from the Site at turbidity levels exceeding the action levels identified in Specification Section 01 57 30 Part 1.04B and 35 20 50 3.03G or above nuisance standards (visual). Actions shall include but are not limited to:
 - i. Underwater inspection of the turbidity curtain, including but not limited, to ensuring seams are still attached and in place, no visual tears or defects in existing boom or sheets, and curtain is outside of the dredge prism area.
 - ii. Correcting deficiencies of the turbidity curtain, including but not limited to repairing or reinstalling sections of the turbidity curtain, re-anchoring the curtain, installing a second row of turbidity curtain at key locations (note that Specification Section 01 57 30 3.04A requires LAND to maintain an additional 300 ft of stand-alone turbidity curtain on site), and identifying the lead time of any additional materials needed.
 - iii. Modifying backfill placement procedures (see Specification Section 35 20 50 Dredge Area Backfill Part 3.03G)
 - b. Ensure that existing and repaired or replaced turbidity curtain is capable of properly functioning throughout the remainder of the project schedule

3. Prepare a post-implementation inspection routine to ensure turbidity releases do not recur. (See Specification Section 01 57 30 Section 3.05 A and B.

4. A written plan is required from the contractor by close of business September 12, 2018 which details steps to inspect and repair, or replace, the TC. The DEC must approve the work plan and final implementation in writing before backfilling activities can commence. The approved work plan should be implemented by September 14, 2018.

MACTEC Review:

Individual	Discipline	Initial	Date
Mark Stelmack, PE	Engineer of Record	MJS	9/11/2018
Mark Peters	Remediation Engineer		
Jason Raimondi	Project Engineer	JPR	9/11/2018
Tony Delano	Remediation Engineer	TD	9/11/2018

FIELD ORDER

Project Name:	Saranac Lake Gas Company, Remedial Action	FO No.: 06
Project Location:	Village of Saranac Lake, Essex County, New York	Date Issued: 10/12/2018
		Site No.: 516008
Client:	New York State Department of Environmental Conservation (Department)	Contract No.: D010663
Contractor:	LAND Remediation, Inc.	Associated RFI or PCO:
MACTEC Project No.: 3611181219		<input type="checkbox"/> RFI No. _ <input checked="" type="checkbox"/> PCO No. <u>6-Rev 1 and PCO 4</u> <input type="checkbox"/> None

CHANGE

Consistent with the requirements set forth in Section VIII, Article 9, Paragraph 9.2 of the Contract Documents, changes to the Work that do not involve an adjustment to Contract Price or Contract Time shall be authorized via a Field Order (FO), which shall be binding on the Department and the Contractor who shall perform such changes promptly. If the Contractor believes that a change to the Work justifies an adjustment to Contract Price or Contract Time the Contractor shall make written notification to the Engineer within three days and provide a Proposed Change Order (PCO) to the Engineer within fifteen days. All FOs shall be consecutively numbered and will address only one issue.

Description of the Work: Pontiac Bay restoration at the TFS bulkhead

Reason for Change to the Work: <input type="checkbox"/> Unforeseen or Differing Site Conditions <input type="checkbox"/> Design Revision <input type="checkbox"/> Owner/Department Request <input checked="" type="checkbox"/> Other: Response to verbal field discussion with Contractor	Attachments: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: Revised drawings Restoration Plan C-502 and Restoration Detail of Figure FO6 -1 C-601.
	Relevant Contract Documents: PCO 6 – Revision 1 revised the approach for backfilling the bay to use riprap in the bay on the dredged shoreline slopes. PCO 4 for restoration and grading of Village park property.
FO Initiated By: Mark Peters	Date: 10/12/2018

AUTHORIZATION

MACTEC Comments:

Restoration at the Temporary Fabric Structure (TFS) Bulkhead:

Restoration along and within the Pontiac Bay where the TFS bulkhead was installed shall be conducted in a manner similar to the restoration of the Pontiac Bay within the remediation limits impacted by the sediment dredge work. This generally consists of the following activities:

1. Remove all of the temporary bulkhead fill materials installed by LAND as part of the TFS design (both above and below the water) to pre-construction elevation. Fill material shall be characterized, removed, and disposed of in accordance with the Contract. Disposal of fill material as part of the TFS is covered under Bid Item 1.
2. Remove the bulkhead sheet piling and piles.
3. Place additional riprap backfill just below the water elevation down to the toe of the navigation dredged limits at a stable slope (3H:1V).
4. Complete shoreline restoration with the Soil Choked Riprap Detail AA-1 on Figure FO6-1.
5. Restore the upland area above soil choked rip rap by grading and seeding per PCO 4.

Barge Pier Bulkhead:

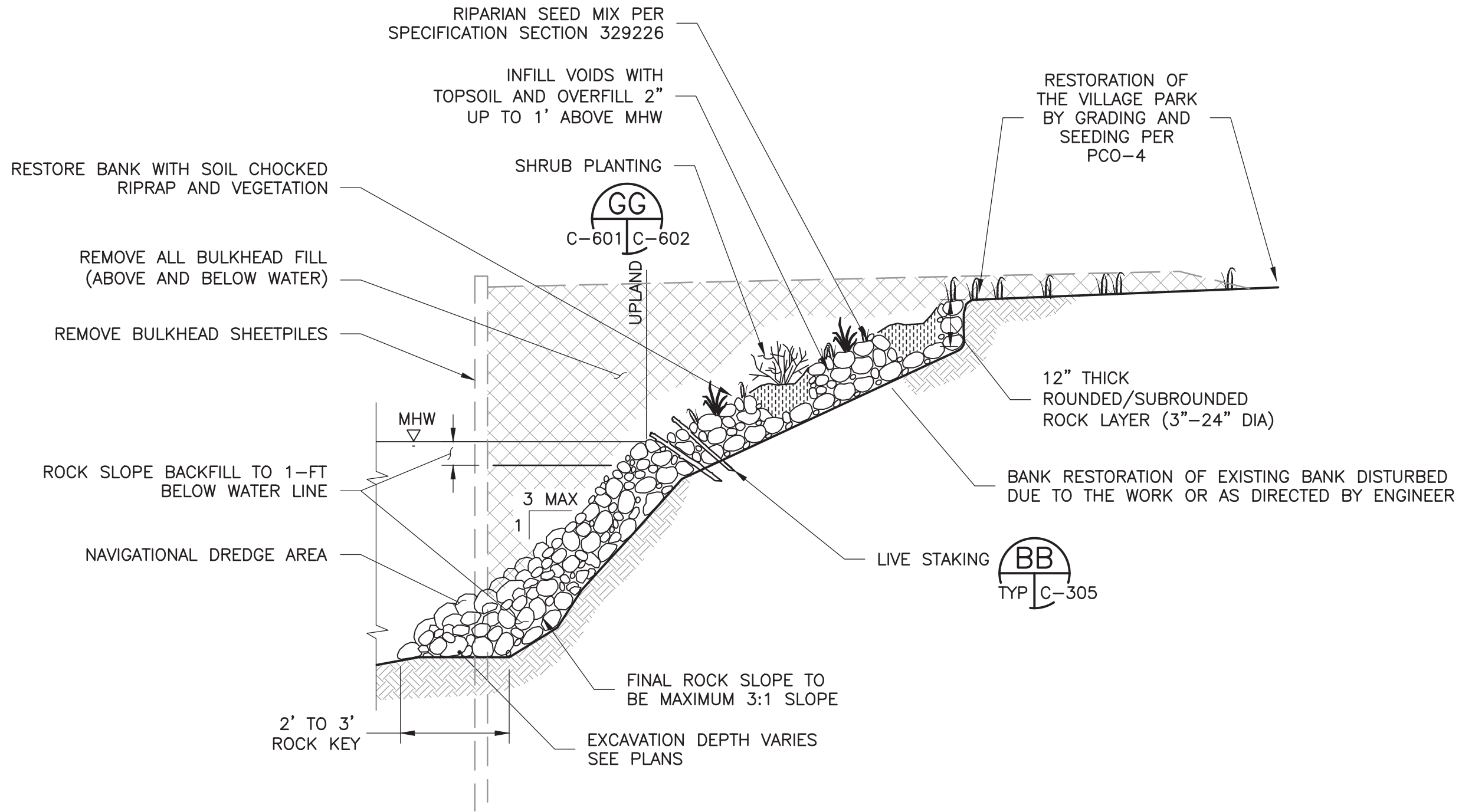
The location of the barge pier bulkhead is located within the remediation limits impacted by the sediment dredge work and has been restored. The restoration of the upland area above soil choked rip rap shall be graded and seeded per PCO 4.

The restoration operations as described above shall be observed and directed in the field by a MACTEC Engineer.

MACTEC Review:

Individual	Discipline	Initial	Date
Mark Stelmack, PE	Engineer of Record	MJS	10/12/2018
Mark Peters	Remediation Engineer	MAP	10/12/2018
Jason Raimondi	Project Engineer	JPR	10/12/2018
Chuck Lyman	Field Oversight/Restoration		

Z:\Projects\nysdec1\Saranac Lake\Figures\RF\Fig-Restor Barge Pier Bulkhead.dwg Fri, 12 Oct 2018 9:45am william.whitten



SOIL CHOKED RIPRAP AT BULKHEAD

AA-1
TYP C-601

NTS

DETAIL ADAPTED FROM REPORT 544, "ENVIRONMENTALLY SENSITIVE CHANNEL- AND BANK-PROTECTION MEASURES" BY THE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP), TRANSPORTATION RESEARCH BOARD, 2004.

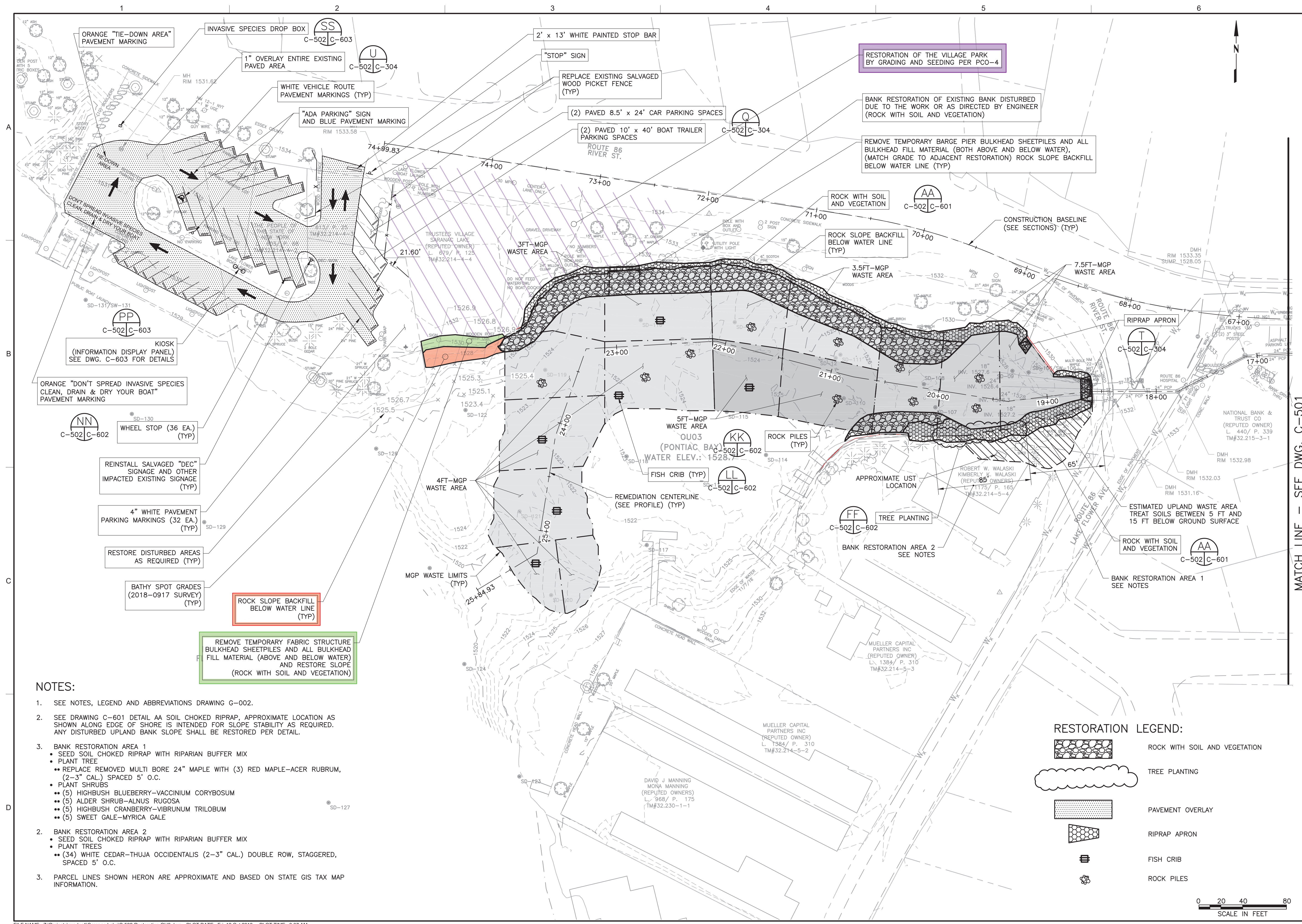
Prepared/Date: WJW 10/12/18
Checked/Date: MAP 10/12/18

NYSDEC
Saranac Lake, New York

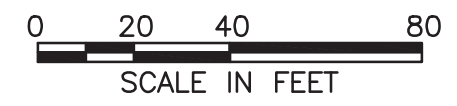
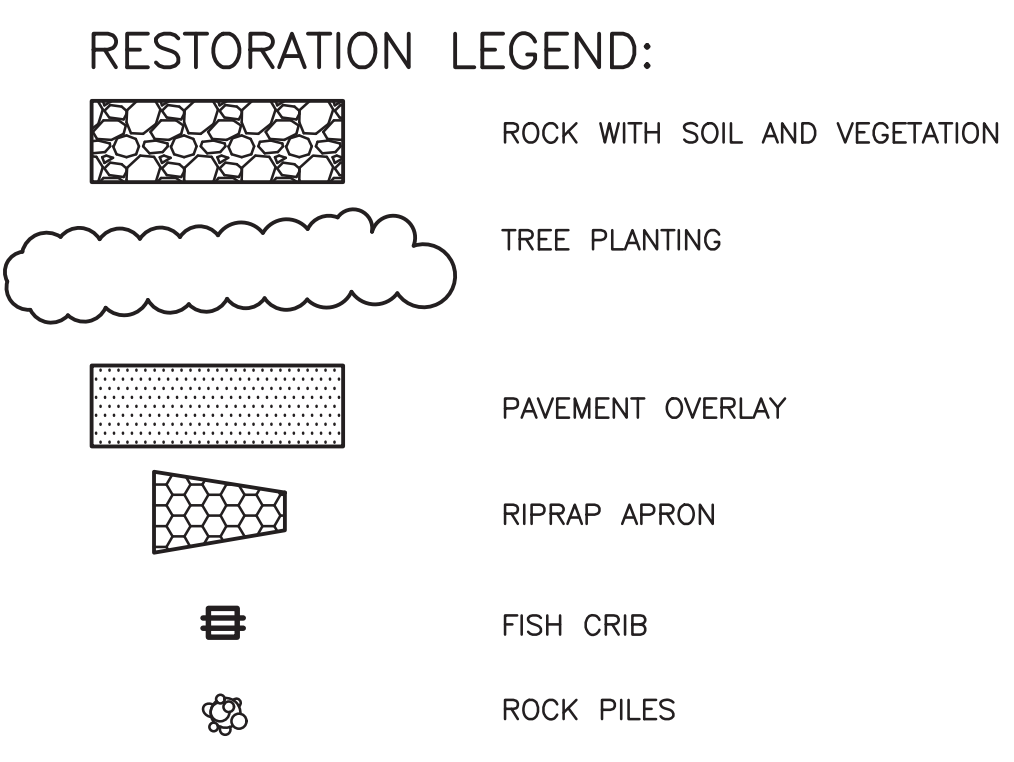


BULKHEAD
RESTORATION

FO6-1



- NOTES:**
- SEE NOTES, LEGEND AND ABBREVIATIONS DRAWING G-002.
 - SEE DRAWING C-601 DETAIL AA SOIL CHOKED RIPRAP, APPROXIMATE LOCATION AS SHOWN ALONG EDGE OF SHORE IS INTENDED FOR SLOPE STABILITY AS REQUIRED. ANY DISTURBED UPLAND BANK SLOPE SHALL BE RESTORED PER DETAIL.
 - BANK RESTORATION AREA 1
 - SEED SOIL CHOKED RIPRAP WITH RIPARIAN BUFFER MIX
 - PLANT TREE
 - REPLACE REMOVED MULTI BORE 24" MAPLE WITH (3) RED MAPLE-ACER RUBRUM, (2-3" CAL.) SPACED 5' O.C.
 - PLANT SHRUBS
 - (5) Highbush Blueberry-Vaccinium corybosum
 - (5) Alder Shrub-Alnus rugosa
 - (5) Highbush Cranberry-Viburnum trilobum
 - (5) Sweet Gale-Myrica gale
 - BANK RESTORATION AREA 2
 - SEED SOIL CHOKED RIPRAP WITH RIPARIAN BUFFER MIX
 - PLANT TREES
 - (34) White Cedar-Thuja occidentalis (2-3" CAL.) DOUBLE ROW, STAGGERED, SPACED 5' O.C.
 - PARCEL LINES SHOWN HERON ARE APPROXIMATE AND BASED ON STATE GIS TAX MAP INFORMATION.



MATCH LINE - SEE DWG. C-501

NO.	DATE	CHK	APVD	MJS
1	10/12/18			
0	1/24/18			

FIELD ORDER-6
ISSUED FOR CONSTRUCTION
REVISION

REMEDIAL ACTION
SARANAC LAKE GAS CO., INC.
SARANAC LAKE, NEW YORK
NYSDEC SITE NUMBER - 516008

CIVIL
PONTIAC BAY
RESTORATION/LANDSCAPING PLAN
OU03

MACTEC Engineering and Consulting, P.C.
P.O. Box 7050, 511 Congress Street
Portland, ME 04106
(207) 775-5401

Department of Environmental Conservation
NEW YORK STATE

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE	OCT 2018
PROJ	3611-16-1193
DWG	C-502
SHEET	28 OF 31

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FIELD ORDER

Project Name:	Saranac Lake Gas Company, Remedial Action	FO No.: 07
Project Location:	Village of Saranac Lake, Essex County, New York	Date Issued: 10/15/2018
		Site No.: 516008
Client:	New York State Department of Environmental Conservation (Department)	Contract No.: D010663
Contractor:	LAND Remediation, Inc.	Associated RFI or PCO:
MACTEC Project No.: 3611181219		<input type="checkbox"/> RFI No. __ <input checked="" type="checkbox"/> PCO No. 6-Rev 1 <input type="checkbox"/> None

CHANGE

Consistent with the requirements set forth in Section VIII, Article 9, Paragraph 9.2 of the Contract Documents, changes to the Work that do not involve an adjustment to Contract Price or Contract Time shall be authorized via a Field Order (FO), which shall be binding on the Department and the Contractor who shall perform such changes promptly. If the Contractor believes that a change to the Work justifies an adjustment to Contract Price or Contract Time the Contractor shall make written notification to the Engineer within three days and provide a Proposed Change Order (PCO) to the Engineer within fifteen days. All FOs shall be consecutively numbered and will address only one issue.

Description of the Work: Relocation of over-placed riprap slope backfill.

Reason for Change to the Work:

- Unforeseen or Differing Site Conditions
- Design Revision
- Owner/Department Request
- Other: Response to verbal field discussion with Contractor

Attachments: Yes No

If yes, describe: Plan and bay cross-sections showing approximate locations.

Relevant Contract Documents:

PCO 6 – Revision 1 revised the approach for backfilling the bay to use riprap in the bay on the dredged shoreline slopes.

FO Initiated By: Mark Peters

Date: 10/12/2018

AUTHORIZATION

MACTEC Comments:

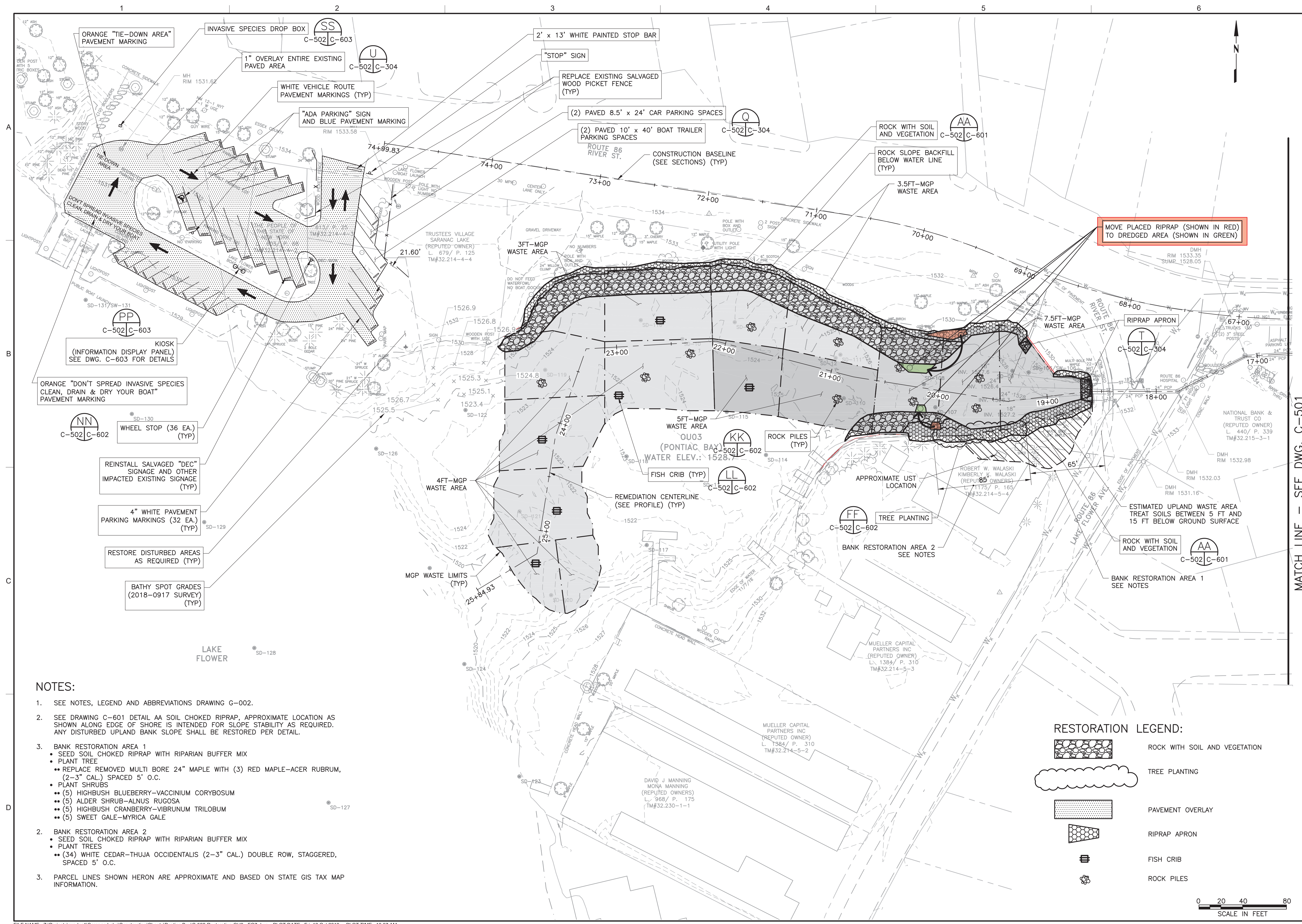
Over-placement of riprap shoreline backfill occurred along the north shore and south shore near the east end of the bay near the transition zone from where the original OU03 Bay Backfill material had been previously placed and where no OU03 Bay Backfill material was placed. The over-placed riprap resulted in two areas of riprap just above the water



elevation forming a peninsula approximately 20 feet wide along the shore and approximately 10 deep out from the north shore and an approximate 6-foot square area on the south shore. This riprap shall be relocated into the deeper non-backfilled area by pushing the riprap with excavator equipment operating from the shore. This operation shall be observed and directed in the field by a MACTEC engineer.

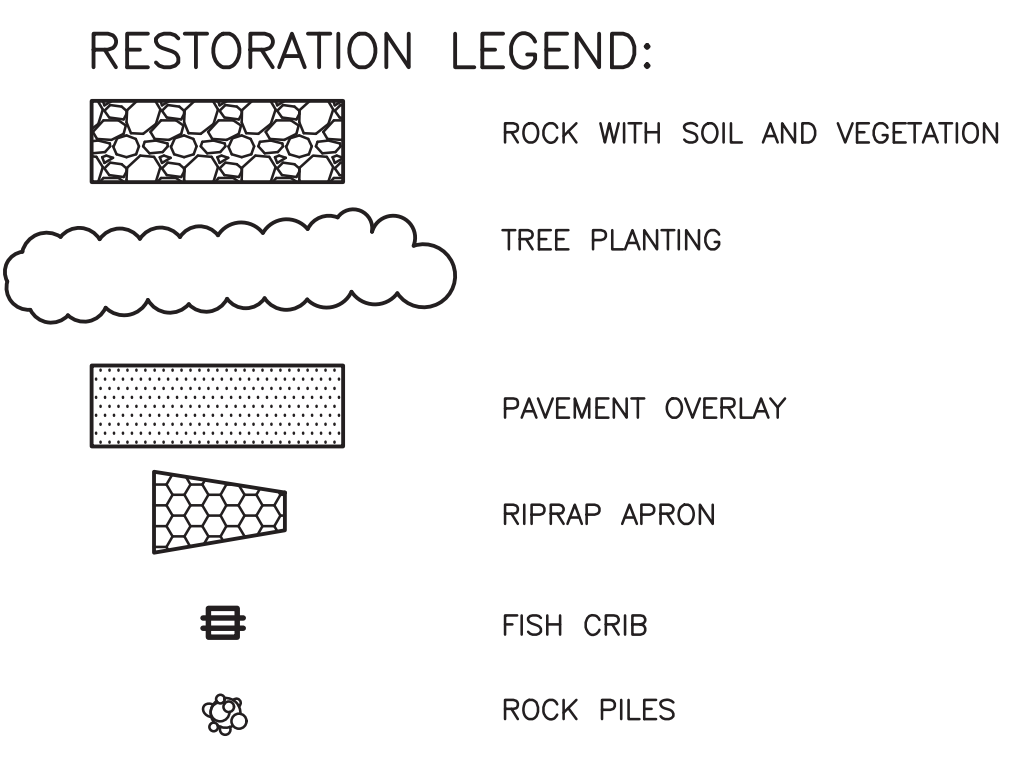
MACTEC Review:

Individual	Discipline	Initial	Date
Mark Stelmack, PE	Engineer of Record	MJS	10/15/2018
Mark Peters	Remediation Engineer	MAP	10/15/2018
Jason Raimondi	Project Engineer		
Chuck Lyman	Field Oversight/Restoration		



MOVE PLACED RIPRAP (SHOWN IN RED) TO DREDGED AREA (SHOWN IN GREEN)

- NOTES:**
- SEE NOTES, LEGEND AND ABBREVIATIONS DRAWING G-002.
 - SEE DRAWING C-601 DETAIL AA SOIL CHOKED RIPRAP, APPROXIMATE LOCATION AS SHOWN ALONG EDGE OF SHORE IS INTENDED FOR SLOPE STABILITY AS REQUIRED. ANY DISTURBED UPLAND BANK SLOPE SHALL BE RESTORED PER DETAIL.
 - BANK RESTORATION AREA 1
 - SEED SOIL CHOKED RIPRAP WITH RIPARIAN BUFFER MIX
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 - PLANT SHRUBS
 - (5) Highbush Blueberry-Vaccinium corybosum
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 - PARCEL LINES SHOWN HERON ARE APPROXIMATE AND BASED ON STATE GIS TAX MAP INFORMATION.



MATCH LINE - SEE DWG. C-501

NO.	DATE	BY	APVD	MAP	MJS
1	10/12/18	DR	MAP	APVD	MJS
0	1/24/18	CHK	WJW	REVISION	
ISSUED FOR CONSTRUCTION		MAP MLS		MAP MLS	
FIELD ORDER-7		BY		APVD	

REMEDIAL ACTION
SARANAC LAKE GAS CO., INC.
SARANAC LAKE, NEW YORK
NYSDEC SITE NUMBER - 516008

CIVIL
PONTIAC BAY
RESTORATION/LANDSCAPING PLAN
OU03

MACTEC Engineering and Consulting, P.C.
P.O. Box 7050, 511 Congress Street
Pondicherry, NY 12551
(518) 775-5401

Department of Environmental Conservation
NEW YORK STATE

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.

DATE	OCT 2018
PROJ	3611-16-1193
DWG	C-502
SHEET	28 OF 31

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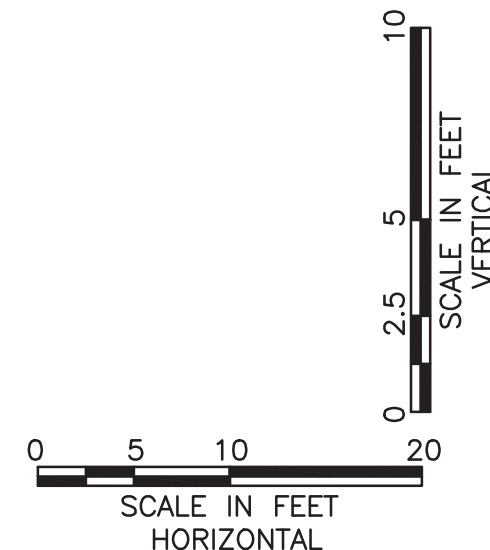
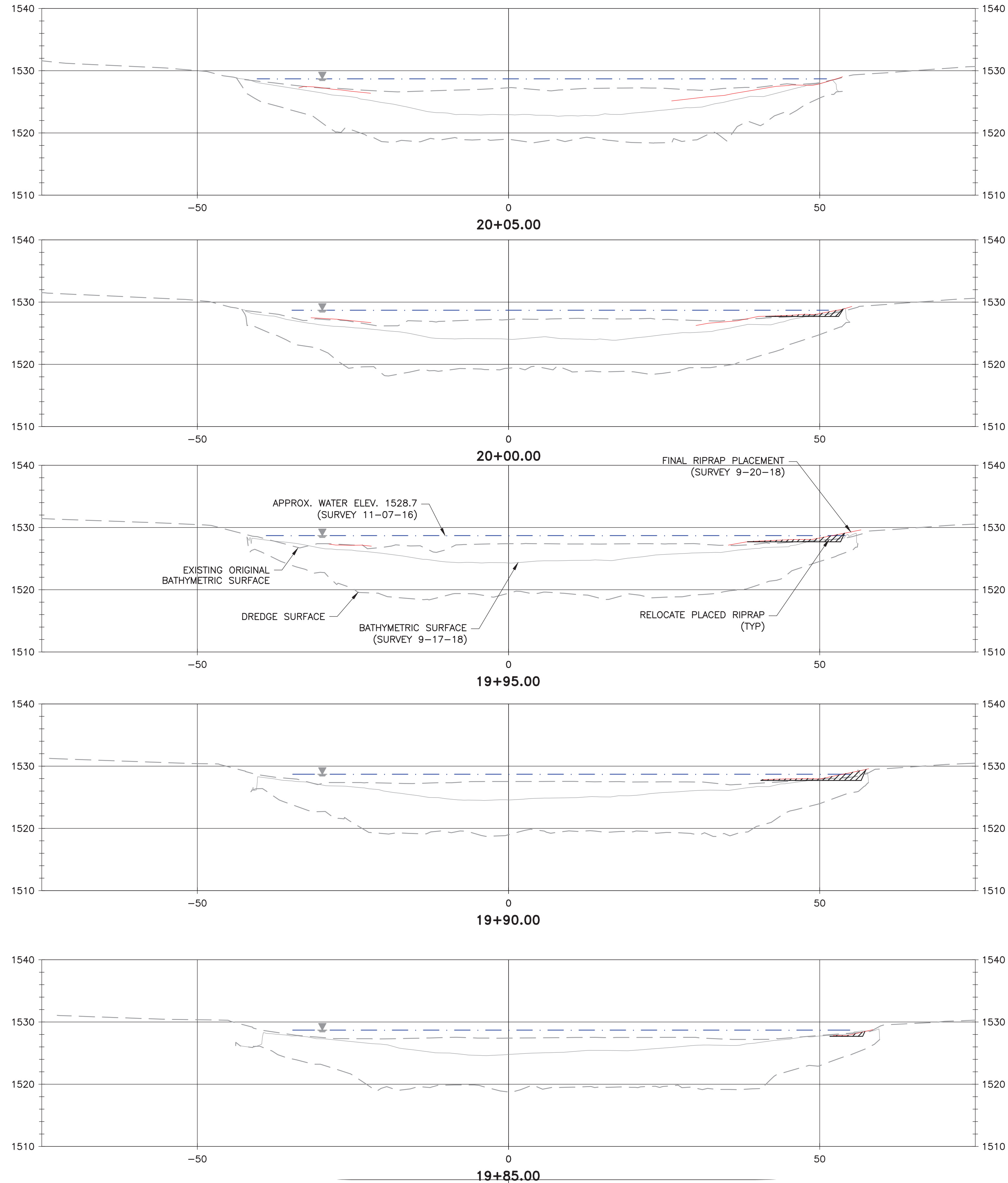
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 MACTEC Engineering and Consulting, P.C. P.O. Box 7050, 511 Congress Street Portland, ME 04106 Phone: (207) 775-5401		 REMEDIAL ACTION SARANAC LAKE GAS CO., INC. SARANAC LAKE, NEW YORK NYSDEC SITE NUMBER - 516008		CIVIL PONTIAC BAY CENTERLINE CROSS SECTIONS OU03	
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.		DATE: SEPT 2018 PROJ: 3611-16-193 DWG: FO-7-1 SHEET: - OF 31		NO. DATE DSGN 1 10/11/18 0 1/24/18	
WJW MAP MAP M/S BY APVD		FIELD ORDER-7 ISSUED FOR CONSTRUCTION REVISION		DR MAP WJW MAP APVD	
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FIELD ORDER

Project Name:	Saranac Lake Gas Company, Remedial Action	FO No.: 08
Project Location:	Village of Saranac Lake, Essex County, New York	Date Issued: 11/06/2018
		Site No.: 516008
Client:	New York State Department of Environmental Conservation (Department)	Contract No.: D010663
Contractor:	LAND Remediation, Inc.	Associated RFI or PCO: <input type="checkbox"/> RFI No. __ <input type="checkbox"/> PCO No. ____ <input checked="" type="checkbox"/> None
MACTEC Project No.:	3611181219	

CHANGE

Consistent with the requirements set forth in Section VIII, Article 9, Paragraph 9.2 of the Contract Documents, changes to the Work that do not involve an adjustment to Contract Price or Contract Time shall be authorized via a Field Order (FO), which shall be binding on the Department and the Contractor who shall perform such changes promptly. If the Contractor believes that a change to the Work justifies an adjustment to Contract Price or Contract Time the Contractor shall make written notification to the Engineer within three days and provide a Proposed Change Order (PCO) to the Engineer within fifteen days. All FOs shall be consecutively numbered and will address only one issue.

Description of the Work: Dewatering management during the OU02 excavation activities.

Reason for Change to the Work:

- Unforeseen or Differing Site Conditions
- Design Revision
- Owner/Department Request
- Other: Response to verbal field discussion with Contractor

Attachments: Yes No

Relevant Contract Documents:

Specification Sections 31 00 00 – Earthwork and 31 23 19 - Dewatering

FO Initiated By: Jason Raimondi

Date: 11/02/2018

AUTHORIZATION

MACTEC Comments:

Lack of pumps and water diversion controls during OU2 Brandy Brook excavations below the water table has resulted in excessive water infiltration into open excavations and excavated soil with excessive free liquids. Dewatering pumps and controls shall be implemented to properly dewater soils of free liquids prior to loading for transport over public roadways. LAND shall install and maintain pumps, water diversion controls during rain events, and allow for proper gravity dewatering of side cast soils during brook excavations. Under no circumstances shall soils with free liquids, as determined by Engineer and/or NYSDEC Inspector(s), be loaded into trucks (lined or unlined) for transport over public



MACTEC Engineering and Consulting, P.C.
511 Congress Street, Suite 200, Portland, Maine 04101
Telephone: (207) 775-5401, Facsimile: (207) 772-4762

roads. Dewatering shall be conducted by LAND to the satisfaction of the Engineer and/or NYSDEC inspector(s) at no additional cost or time to the Department.

MACTEC Review:

Individual	Discipline	Initial	Date
Mark Stelmack, PE	Engineer of Record	MJS	11/02/2018
Mark Peters	Remediation Engineer	MAP	11/02/2018
Jason Raimondi	Project Engineer		
Olivia Platia	Construction Inspector	OAP	11/02/2018

FIELD ORDER

Project Name:	Saranac Lake Gas Company, Remedial Action	FO No.: 09
Project Location:	Village of Saranac Lake, Essex County, New York	Date Issued: 11/02/2018
		Site No.: 516008
Client:	New York State Department of Environmental Conservation (Department)	Contract No.: D010663
Contractor:	LAND Remediation, Inc.	Associated RFI or PCO: <input type="checkbox"/> RFI No. __ <input type="checkbox"/> PCO No. ____ <input checked="" type="checkbox"/> None
MACTEC Project No.:	3611181219	

CHANGE

Consistent with the requirements set forth in Section VIII, Article 9, Paragraph 9.2 of the Contract Documents, changes to the Work that do not involve an adjustment to Contract Price or Contract Time shall be authorized via a Field Order (FO), which shall be binding on the Department and the Contractor who shall perform such changes promptly. If the Contractor believes that a change to the Work justifies an adjustment to Contract Price or Contract Time the Contractor shall make written notification to the Engineer within three days and provide a Proposed Change Order (PCO) to the Engineer within fifteen days. All FOs shall be consecutively numbered and will address only one issue.

Description of the Work: Topsoil placement on the Village park (ice palace) property.

Reason for Change to the Work:

- Unforeseen or Differing Site Conditions
- Design Revision
- Owner/Department Request
- Other: Response to verbal field discussion with Contractor

Attachments: Yes No

Relevant Contract Documents:

Specification Section 31 00 00 – Earthwork

FO Initiated By: Mark Stelmack

Date: 11/02/2018

AUTHORIZATION

MACTEC Comments:

During the project progress meeting on 11/01/2018, LAND stated it would arrange to have topsoil delivered to the Project Site and placed in accordance with the contract at the OU03 Village of Saranac Lake ice palace property during this calendar year (2018).

However, during the onsite meeting that occurred on 10/18/2018 with representatives from LAND, NYSDEC, the Village, and MACTEC attending it was agreed that the ice palace property would be rough graded this year and that topsoil would be placed in 2019 (as documented in the minutes of the 10/18/2018 bi-weekly project progress meeting).



LAND is therefore directed to place topsoil at the ice palace property in the spring of 2019 in accordance with the agreement. Should LAND so choose, topsoil can be delivered, stored, and protected at OU01 in the interim at its own cost.

MACTEC Review:

Individual	Discipline	Initial	Date
Mark Stelmack, PE	Engineer of Record		
Mark Peters	Remediation Engineer	MAP	11/02/2018
Jason Raimondi	Project Engineer		
Olivia Platia	Construction Inspector		

FIELD ORDER

Project Name:	Saranac Lake Gas Company, Remedial Action	FO No.:	10
Project Location:	Village of Saranac Lake, Essex County, New York	Date Issued:	11/13/2018
		Site No.:	516008
Client:	New York State Department of Environmental Conservation (Department)	Contract No.:	D010663
Contractor:	LAND Remediation, Inc.	Associated RFI or PCO:	
MACTEC Project No.:	3611181219	<input type="checkbox"/> RFI No. __ <input type="checkbox"/> PCO No. ____ <input checked="" type="checkbox"/> None	

CHANGE

Consistent with the requirements set forth in Section VIII, Article 9, Paragraph 9.2 of the Contract Documents, changes to the Work that do not involve an adjustment to Contract Price or Contract Time shall be authorized via a Field Order (FO), which shall be binding on the Department and the Contractor who shall perform such changes promptly. If the Contractor believes that a change to the Work justifies an adjustment to Contract Price or Contract Time the Contractor shall make written notification to the Engineer within three days and provide a Proposed Change Order (PCO) to the Engineer within fifteen days. All FOs shall be consecutively numbered and will address only one issue.

Description of the Work: Cold Weather Protection Measures

Reason for Change to the Work:

- Unforeseen or Differing Site Conditions
- Design Revision
- Owner/Department Request
- Other: Lack of Cold Weather Protection impacting work progress and schedule.

Attachments: Yes No

Relevant Contract Documents:

General Conditions Section VIII; Specification Section 31 00 00 – Earthwork

FO Initiated By: Jamie Welch

Date: 11/13/2018

AUTHORIZATION

MACTEC Comments:

Based on the extended weather forecast and projected low temperatures, LAND is directed to provide all necessary cold weather protection to allow work to progress and eliminate schedule impacts. LAND's failure to provide appropriate cold weather protection is impacting work performance and causing lost time and delays. Examples of the lack of cold weather protection include:

- Pumps and waterlines not drained or protected from freezing.
- Lack of cold weather protection for the water treatment system.
- Lack of sufficient heat taping/lines for pipes and ground thawing machines.

Sufficient and appropriate cold weather measures need to be deployed to protect all equipment and services and allow the work to progress in a timely manner.

The Contract Documents put responsibility of cold weather protection on the Contractor:

General Conditions Section VIII:

Weather Protection:

5.32 Contractor shall be responsible for initiating, maintaining and supervising all weather protection precautions and programs in connection with the Work.

Specification Section 31 00 00 – Earthwork:

3.07 COLD WEATHER PROTECTION

A. Protect excavation bottoms against freezing when atmospheric temperature is less than 35F.

MACTEC Review:

Individual	Discipline	Initial	Date
Mark Stelmack, PE	Engineer of Record	MJS	11/13/2018
Mark Peters	Remediation Engineer	MAP	11/13/2018
Jason Raimondi	Project Engineer		
Jamie Welch	Project Manager	JDW	11/13/2018

FIELD ORDER

Project Name:	Saranac Lake Gas Company, Remedial Action	FO No.:	11
Project Location:	Village of Saranac Lake, Essex County, New York	Date Issued:	11/28/2018
		Site No.:	516008
Client:	New York State Department of Environmental Conservation (Department)	Contract No.:	D010663
Contractor:	LAND Remediation, Inc.	Associated RFI or PCO:	
MACTEC Project No.:	3611181219	<input type="checkbox"/> RFI No. __ <input type="checkbox"/> PCO No. __ <input checked="" type="checkbox"/> None	

CHANGE

Consistent with the requirements set forth in Section VIII, Article 9, Paragraph 9.2 of the Contract Documents, changes to the Work that do not involve an adjustment to Contract Price or Contract Time shall be authorized via a Field Order (FO), which shall be binding on the Department and the Contractor who shall perform such changes promptly. If the Contractor believes that a change to the Work justifies an adjustment to Contract Price or Contract Time the Contractor shall make written notification to the Engineer within three days and provide a Proposed Change Order (PCO) to the Engineer within fifteen days. All FOs shall be consecutively numbered and will address only one issue.

Description of the Work: Modification of the footing for the concrete box driveway culvert to be installed at Station 13+63 to 14+05 on Brandy Brook to avoid conflict with a sewer service lateral.

Reason for Change to the Work:	Attachments: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Unforeseen or Differing Site Conditions <input type="checkbox"/> Design Revision <input type="checkbox"/> Owner/Department Request <input type="checkbox"/> Other:	Figure FO-11
	Relevant Contract Documents:
FO Initiated By: Mark Peters	Date: 11/28/2018

AUTHORIZATION

MACTEC Comments:

The design for the replacement culvert at this location is a three-sided (open bottom) concrete box culvert supported on concrete footings replacing the existing twin 24-inch plastic culvert pipes. Submittal No. 101 provided the details for the box culvert which included 2-foot thick precast concrete footings. The footings for the replacement box culvert are in conflict with a sewer service lateral, therefore this Field Order directs LAND to install the precast concrete footings by cutting each footing at the location of the sewer lateral and sliding the footings along the alignment of the culvert length to provide a 12-inch gap between footing sections to allow for the sewer pipe installation. The gap between the footing sections around the sewer pipe shall be filled with crushed stone. Refer to the attached Figure FO-11 for the installation of



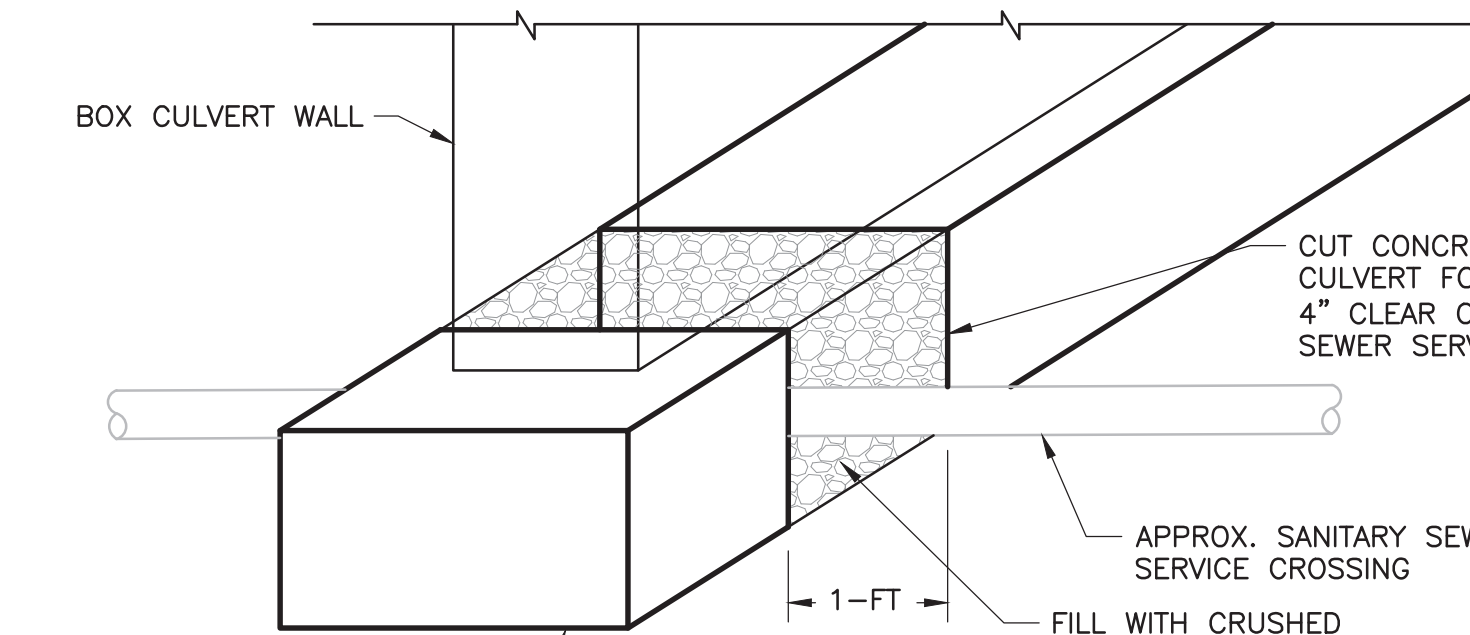
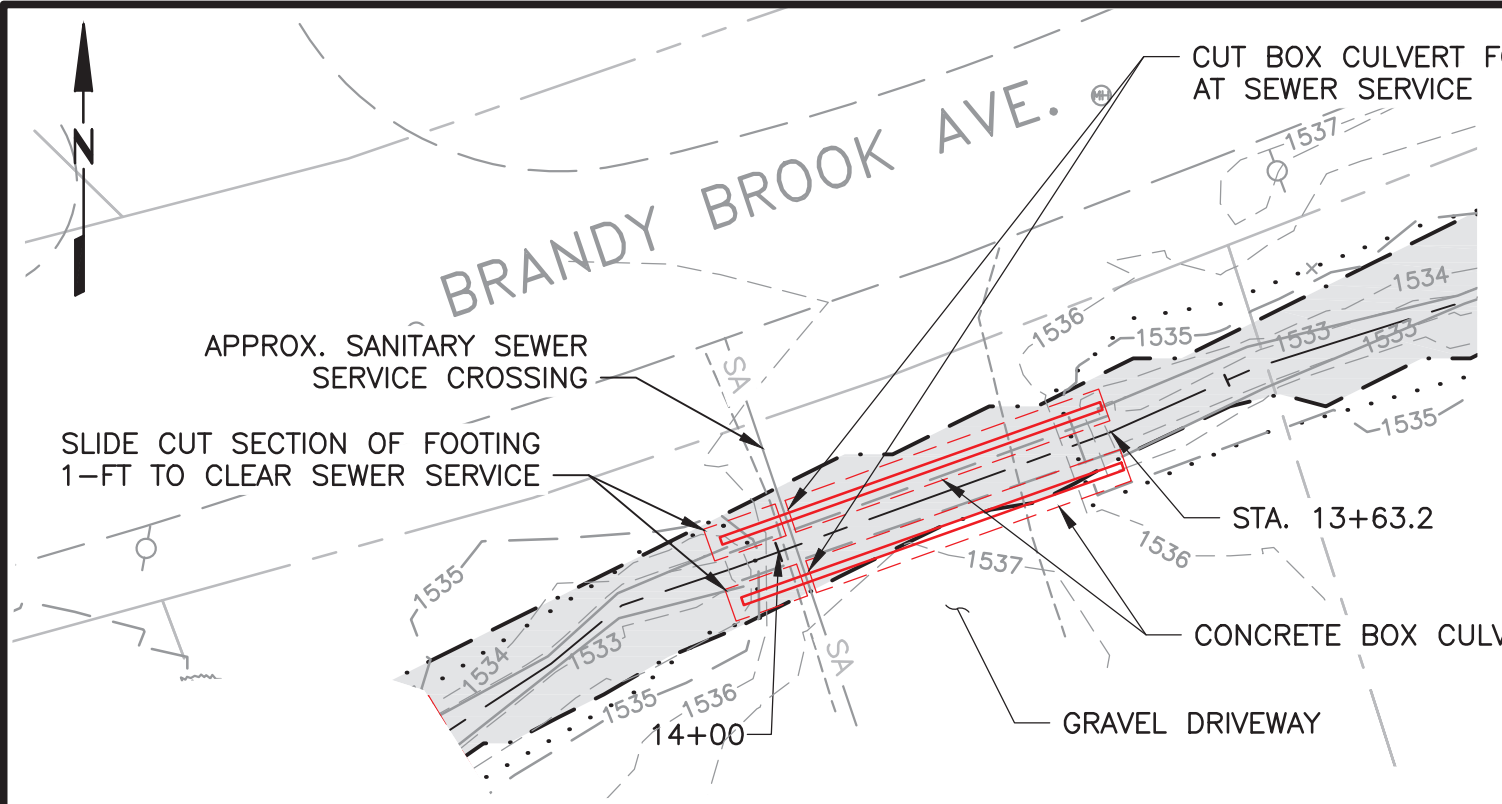
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Telephone: (207) 775-5401, Facsimile: (207) 772-4762

the modified culvert footing detail at the sewer service lateral location.

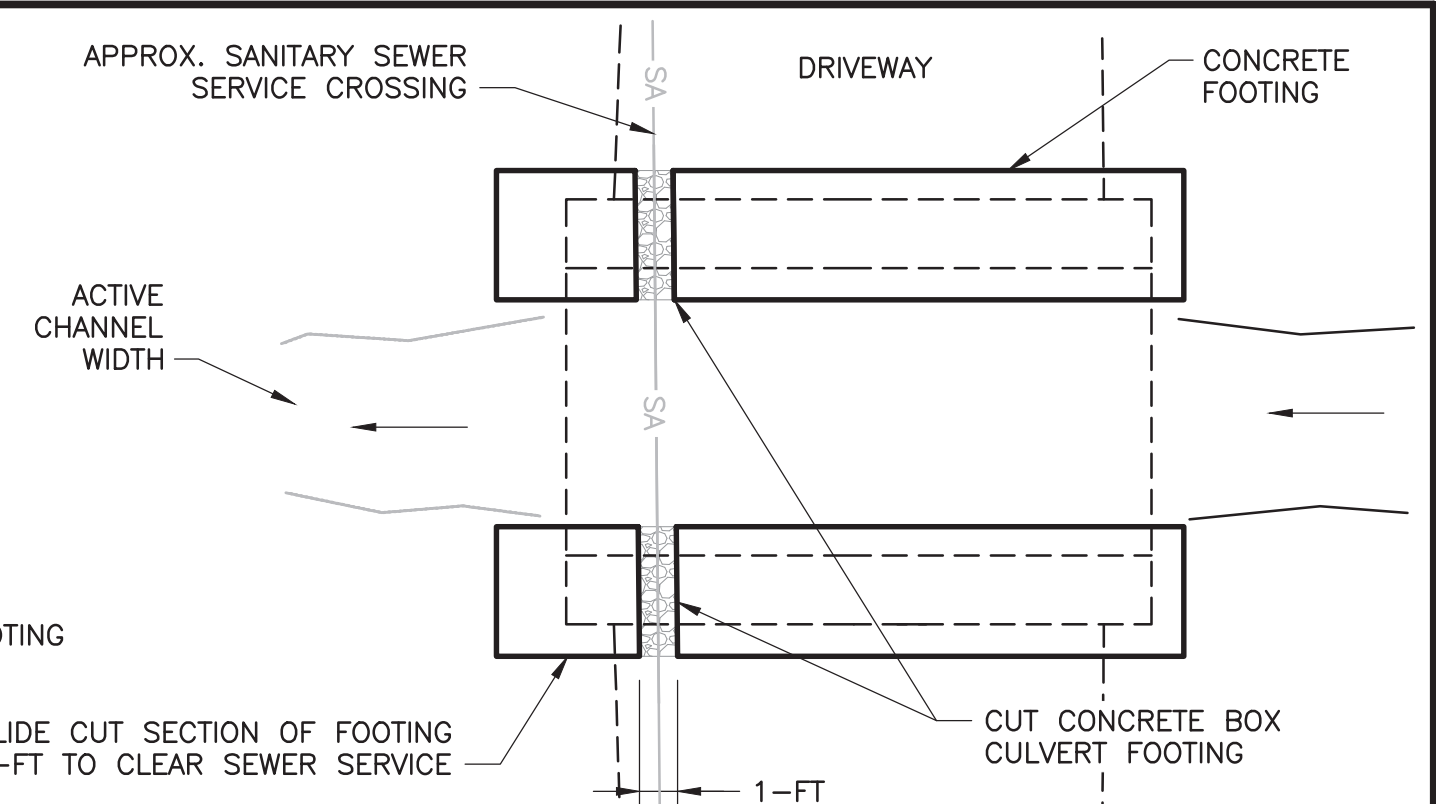
MACTEC Review:

Individual	Discipline	Initial	Date
Mark Stelmack, PE	Engineer of Record	MJS	11/28/2018
Mark Peters	Remediation Engineer	MAP	11/28/2018
Jason Raimondi	Project Engineer		
Jamie Welch	Project Manager		

Z:\Projects\nysdec1\Saranac Lake\Construction\Sheets\Brandy Brook\Fig FO-11 Culvert Modification.dwg Wed, 28 Nov 2018 8:26am william.whitten

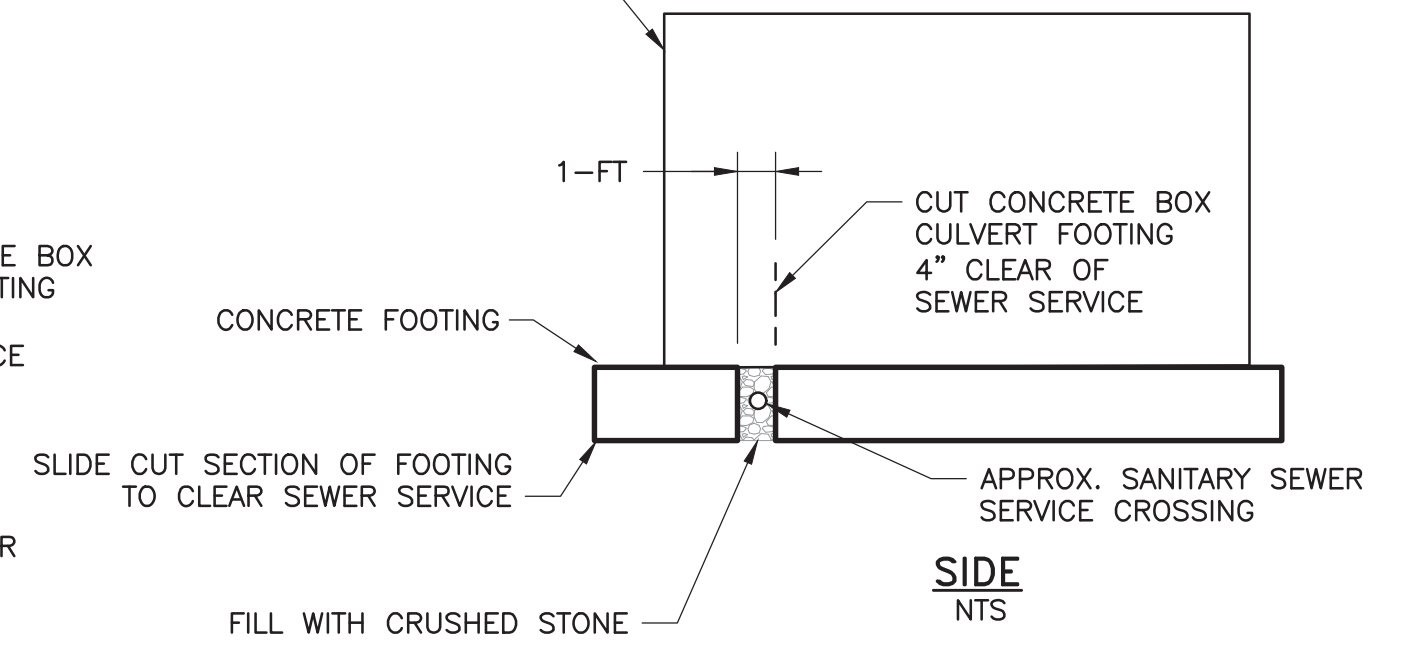


SLIDE CUT SECTION OF FOOTING 1-FT TO CLEAR SEWER SERVICE



PLAN
NTS

3 SIDED PRECAST REINFORCED CONCRETE BOX CULVERT (OPEN BOTTOM) 6'x4' (42-FT LONG)



SIDE
NTS

Prepared/Date: WJW 11/28/18
Checked/Date: MAP 11/28/18

NYSDEC
Saranac Lake, New York



OU2 BRANDY BROOK
CULVERT MODIFICATION

FO-11

FIELD ORDER

Project Name:	Saranac Lake Gas Company, Remedial Action	FO No.:	12
Project Location:	Village of Saranac Lake, Essex County, New York	Date Issued:	12/5/2018
		Site No.:	516008
Client:	New York State Department of Environmental Conservation (Department)	Contract No.:	D010663
Contractor:	LAND Remediation, Inc.	Associated RFI or PCO:	
MACTEC Project No.:	3611181219	<input type="checkbox"/> RFI No. __ <input type="checkbox"/> PCO No. __ <input checked="" type="checkbox"/> None	

CHANGE

Consistent with the requirements set forth in Section VIII, Article 9, Paragraph 9.2 of the Contract Documents, changes to the Work that do not involve an adjustment to Contract Price or Contract Time shall be authorized via a Field Order (FO), which shall be binding on the Department and the Contractor who shall perform such changes promptly. If the Contractor believes that a change to the Work justifies an adjustment to Contract Price or Contract Time the Contractor shall make written notification to the Engineer within three days and provide a Proposed Change Order (PCO) to the Engineer within fifteen days. All FOs shall be consecutively numbered and will address only one issue.

Description of the Work: Installation of rock check dams in Brandy Brook as part of the winterization control measures.

Reason for Change to the Work:	Attachments: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Unforeseen or Differing Site Conditions <input type="checkbox"/> Design Revision <input type="checkbox"/> Owner/Department Request <input checked="" type="checkbox"/> Other: Winterization measure	Figure FO-12
	Relevant Contract Documents: Winterization Inspection Plan
	FO Initiated By: Jamie Welch
	Date: 12/04/2018

AUTHORIZATION

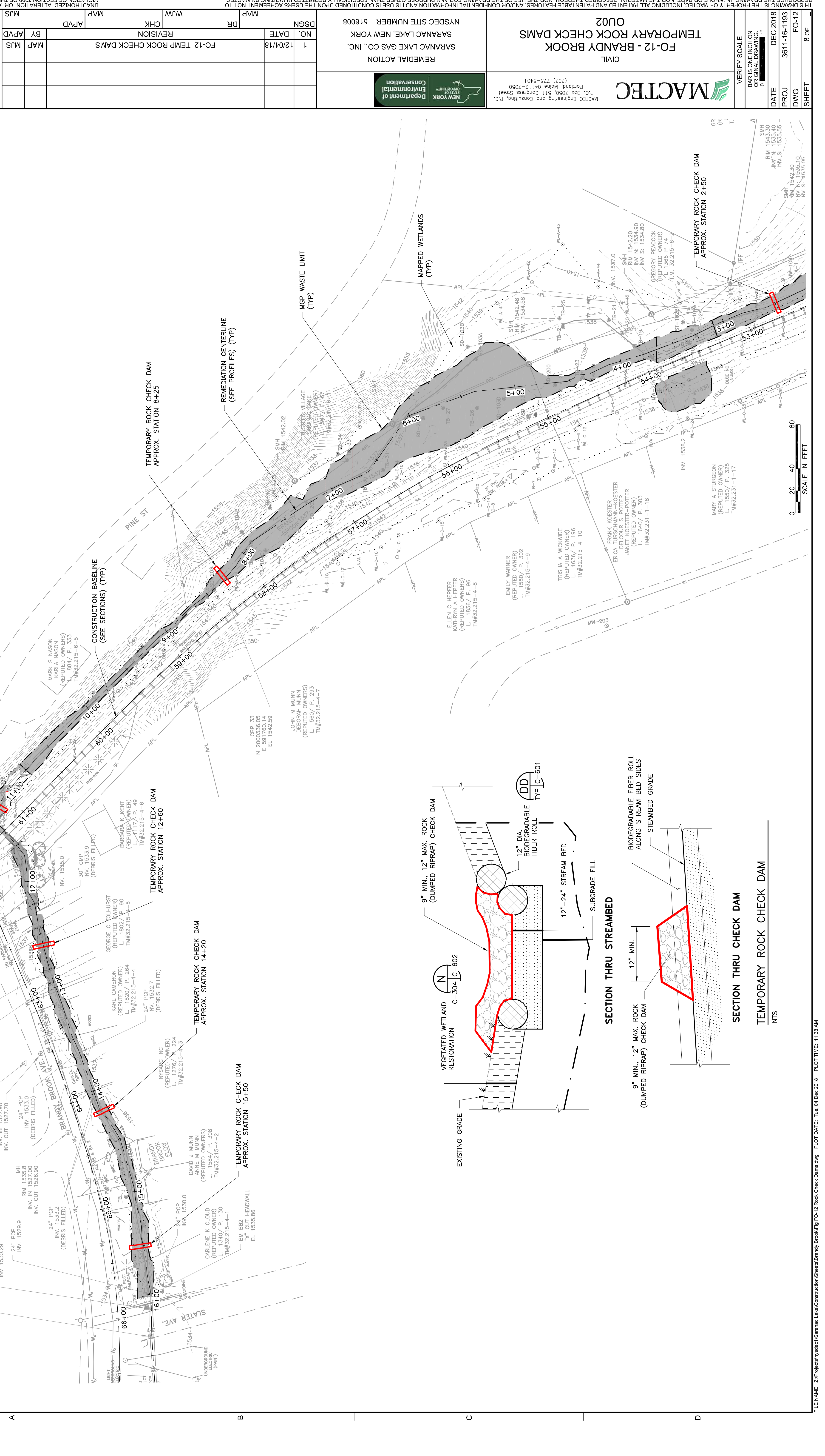
MACTEC Comments:

To control initial loss of fine particles from the Streambed Material when flow is reintroduced into the restored Brandy Brook, and to allow time for the brook to self-armor and stabilize, this Field Order directs LAND to install rock check dams (dumped riprap stone) at a number of locations along the brook prior to re-directing bypass flow to the reconstructed channel as part of the winterization control measures. Refer to the attached Figure FO-12 for the installation locations and check dam detail.



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MACTEC Review:			
Individual	Discipline	Initial	Date
Mark Stelmack, PE	Engineer of Record	MJS	12/04/2018
Mark Peters	Remediation Engineer	MAP	12/04/2018
Jason Raimondi	Project Engineer		
Jamie Welch	Project Manager	JDW	12/5/2018



FIELD ORDER

Project Name:	Saranac Lake Gas Company, Remedial Action	FO No.:	13
Project Location:	Village of Saranac Lake, Essex County, New York	Date Issued:	05/09/2019
		Site No.:	516008
Client:	New York State Department of Environmental Conservation (Department)	Contract No.:	D010663
Contractor:	LAND Remediation, Inc.	Associated RFI or PCO:	
MACTEC Project No.:	3611181219	<input type="checkbox"/> RFI No. __ <input checked="" type="checkbox"/> PCO No. <u>12</u> <input checked="" type="checkbox"/> None	

CHANGE

Consistent with the requirements set forth in Section VIII, Article 9, Paragraph 9.2 of the Contract Documents, changes to the Work that do not involve an adjustment to Contract Price or Contract Time shall be authorized via a Field Order (FO), which shall be binding on the Department and the Contractor who shall perform such changes promptly. If the Contractor believes that a change to the Work justifies an adjustment to Contract Price or Contract Time the Contractor shall make written notification to the Engineer within three days and provide a Proposed Change Order (PCO) to the Engineer within fifteen days. All FOs shall be consecutively numbered and will address only one issue.

Description of the Work: Revised scope of work for paving at the boat launch parking area.

Reason for Change to the Work:

- Unforeseen or Differing Site Conditions
- Design Revision
- Owner/Department Request
- Other

Attachments: Yes No

- Figure 1
- Photo 1

Relevant Contract Documents:

- Specification 32 12 16
- Drawing C-304 (Vegetated Upland Restoration and Paved Drive Restoration details)

FO Initiated By: Jamie Welch

Date: 05/02/2019

AUTHORIZATION

MACTEC Comments:

Based on NYSDEC's plan to conduct its own major upgrade to the boat launch parking area in 2020, LAND is directed to conduct the following actions in lieu of the restoration depicted on the contract drawings and in PCO No.12.

1. Pave the area where the grass landscape mound was (the area depicted in blue on attached Figure 1). Provide gravel subbase, 1-inch binder course, and 1-inch top course as described in Part 2.04 of Specification 32 12 16. Match existing

adjacent pavement grade with final grade.

2. Grade the disturbed area within the orange circle (generally) shown on attached Figure 1 and on Photo 1 using hand raking, topsoil, and seeding.
3. Sweep the parking lot and re-stripe the parking stalls.
4. Place the split rail fence up on the property line.
5. Do provide the sign/kiosk as originally designed and planned.

Additionally, the driveway located at 26 Brandy Brook Avenue, a residential property otherwise known as the Arc House, shall be restored as a paved driveway rather than a gravel driveway as indicated in the contract drawings. Driveway paving shall be conducted similar to that at 42 Brandy Brook Road as shown on contract drawing C-304, which will include a 6" gravel subbase and 2" asphalt top course.

MACTEC Review:

Individual	Discipline	Initial	Date
Mark Stelmack, PE	Engineer of Record	MJS	05/02/2019
Mark Peters	Remediation Engineer		
Jason Raimondi	Project Engineer		
Jamie Welch	Project Manager	JDW	05/03/2019



Figure 1. Field Order 13 Item 1: Pave the area shown in blue. Item 2. Grade the area within the orange circle.



Photo 1 - Location of Boat Launch Parking Area to be graded.

FIELD ORDER

Project Name:	Saranac Lake Gas Company, Remedial Action	FO No.:	14
Project Location:	Village of Saranac Lake, Essex County, New York	Date Issued:	06/03/2019
		Site No.:	516008
Client:	New York State Department of Environmental Conservation (Department)	Contract No.:	D010663
Contractor:	LAND Remediation, Inc.	Associated RFI or PCO:	
MACTEC Project No.:	3611181219	<input type="checkbox"/> RFI No. __ <input type="checkbox"/> PCO No. __ <input checked="" type="checkbox"/> None	

CHANGE

Consistent with the requirements set forth in Section VIII, Article 9, Paragraph 9.2 of the Contract Documents, changes to the Work that do not involve an adjustment to Contract Price or Contract Time shall be authorized via a Field Order (FO), which shall be binding on the Department and the Contractor who shall perform such changes promptly. If the Contractor believes that a change to the Work justifies an adjustment to Contract Price or Contract Time the Contractor shall make written notification to the Engineer within three days and provide a Proposed Change Order (PCO) to the Engineer within fifteen days. All FOs shall be consecutively numbered and will address only one issue.

Description of the Work: Replacement of driveway guard rail at 38 and 42 River Street.

Reason for Change to the Work:	Attachments: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Unforeseen or Differing Site Conditions <input type="checkbox"/> Design Revision <input checked="" type="checkbox"/> Owner/Department Request <input type="checkbox"/> Other	<ul style="list-style-type: none"> • Photographs • Sketch
	Relevant Contract Documents: <ul style="list-style-type: none"> • Specification 01 71 33 • Drawing C-304, Detail R
FO Initiated By: Jamie Welch	Date: 06/03/2019

AUTHORIZATION

MACTEC Comments:
 In accordance with Specification Section 01 71 33 – Protection of The Work and Property - 1.06-D - “All other existing surface facilities, including but not limited to, guard rails, posts, guard cables, signs, poles, markers, and curbs which are temporarily removed to facilitate installation of the Work shall be replaced and restored to their original condition”, LAND is directed to replace guard rails along the installed curbing in front of 38 and 42 River Street which were removed to facilitate the Work. Railings shall resemble a split railing fence as was previously installed (Photos FO14-02). Both railings shall consist of two 4” X 4” wooden posts anchored to each end of the curbing, with two 2” X 4” split rails. Split rails shall extend 18 – 24” past the post. Ends of posts and rails shall be trimmed to provide a nice finish, and the railing shall be painted or stained dark brown to match the previous railing and the existing railing on the front steps. See sketch below.

MACTEC Review:			
Individual	Discipline	Initial	Date
Mark Stelmack, PE	Engineer of Record		
Mark Peters	Civil/Remediation Engineer	MAP	06/03/2019
Jason Raimondi	Project Engineer	JPR	05/23/2019
Jamie Welch	Project Manager	JDW	06/03/2019

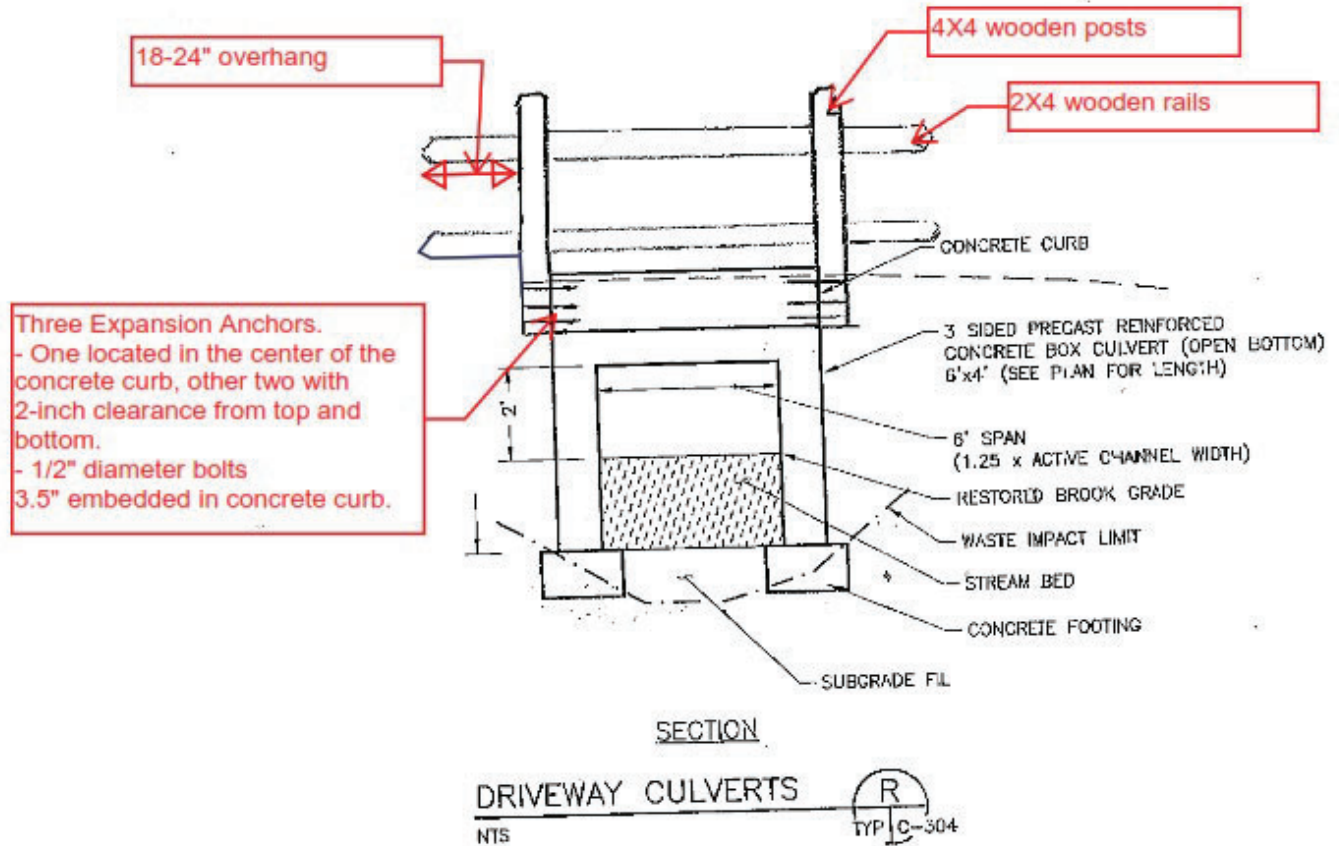
PHOTOS / SKETCHES:



FO14-01 Existing driveway with new curbing at 38 and 42 River Street



FO14-02 Previous Railings in place at 38 and 42 River Street



FO14-03	Sketch of recommended railing attached to curbing. Brackets may also be used in lieu of Expansion Bolts/Anchors.
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FIELD ORDER

Project Name:	Saranac Lake Gas Company, Remedial Action	FO No.:	15
Project Location:	Village of Saranac Lake, Essex County, New York	Date Issued:	06/03/2019
		Site No.:	516008
Client:	New York State Department of Environmental Conservation (Department)	Contract No.:	D010663
Contractor:	LAND Remediation, Inc.	Associated RFI or PCO:	
MACTEC Project No.:	3611181219	<input type="checkbox"/> RFI No. __ <input checked="" type="checkbox"/> PCO No. <u>4</u> <input type="checkbox"/> None	

CHANGE

Consistent with the requirements set forth in Section VIII, Article 9, Paragraph 9.2 of the Contract Documents, changes to the Work that do not involve an adjustment to Contract Price or Contract Time shall be authorized via a Field Order (FO), which shall be binding on the Department and the Contractor who shall perform such changes promptly. If the Contractor believes that a change to the Work justifies an adjustment to Contract Price or Contract Time the Contractor shall make written notification to the Engineer within three days and provide a Proposed Change Order (PCO) to the Engineer within fifteen days. All FOs shall be consecutively numbered and will address only one issue.

Description of the Work: Revised Landscape Plan for Prescott Park

Reason for Change to the Work:	Attachments: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Unforeseen or Differing Site Conditions <input type="checkbox"/> Design Revision <input checked="" type="checkbox"/> Owner/Department Request <input type="checkbox"/> Other	<ul style="list-style-type: none"> Prescott Park Landscape Plan Mark-Up
	Relevant Contract Documents: <ul style="list-style-type: none"> Not Applicable
FO Initiated By: Jamie Welch	Date: 06/03/2019

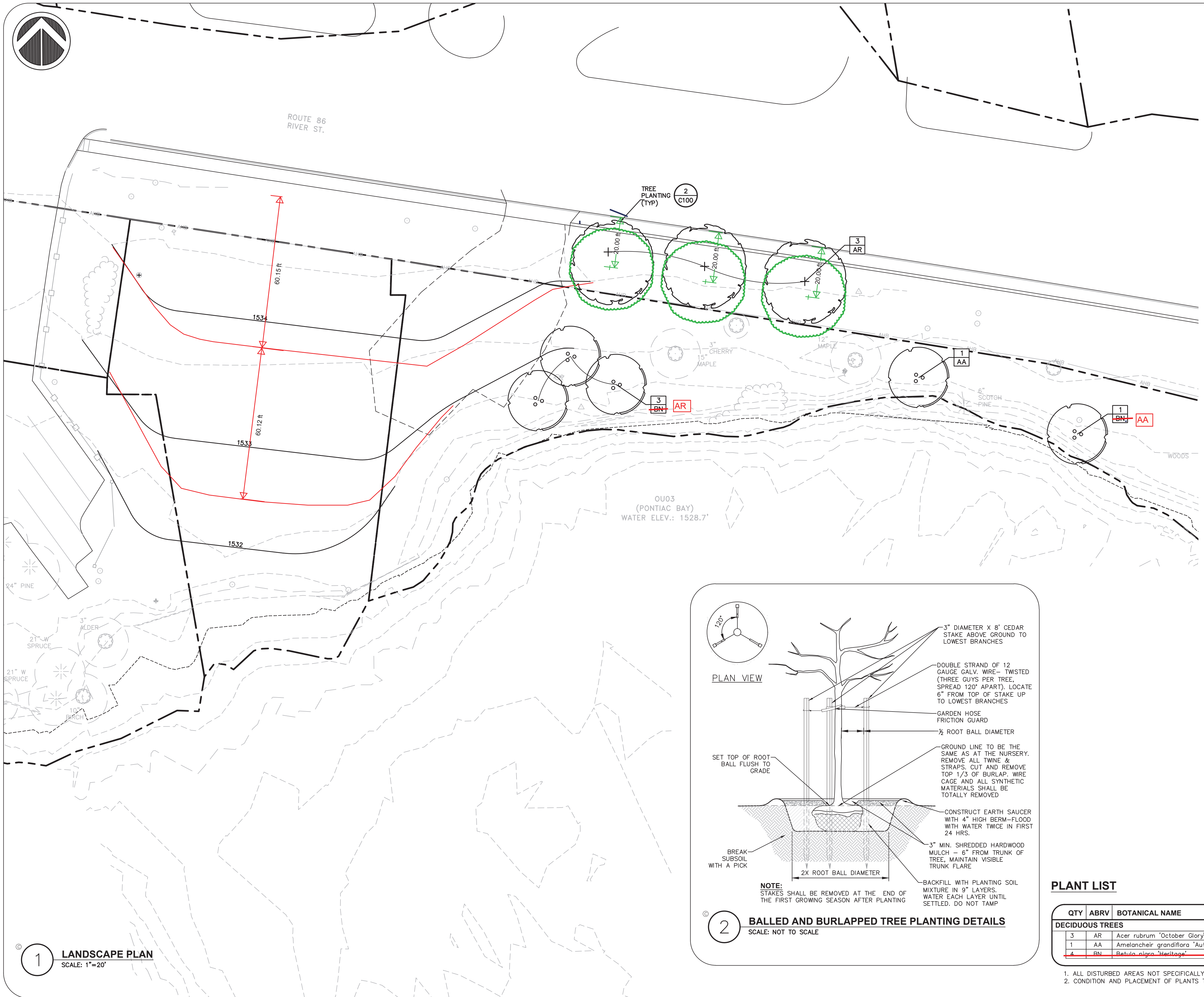
AUTHORIZATION

MACTEC Comments:
 This field order is being issued to ensure that the various changes agreed to between NYSDEC, the Village of Saranac Lake, and the Department of Transportation regarding the Prescott Park Landscaping Plan are completed accordingly. These changes are summarized via red and green mark-ups on the attached Prescott Park Landscape Plan, which was revised on November 2, 2018. The changes include: (1) slight change in grading that was incorporated prior to substantial completion, (2) moving three red maple trees a safe distance from River Street (~20 feet) to prevent damage from road salt, (3) replacing four heritage river birch trees with three red maples and one autumn brilliance.



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MACTEC Review:			
Individual	Discipline	Initial	Date
Mark Stelmack, PE	Engineer of Record		
Mark Peters	Civil/Remediation Engineer		
Olivia Platia	Project Engineer	OAP	06/03/2019
Jamie Welch	Project Manager	JDW	06/04/2019

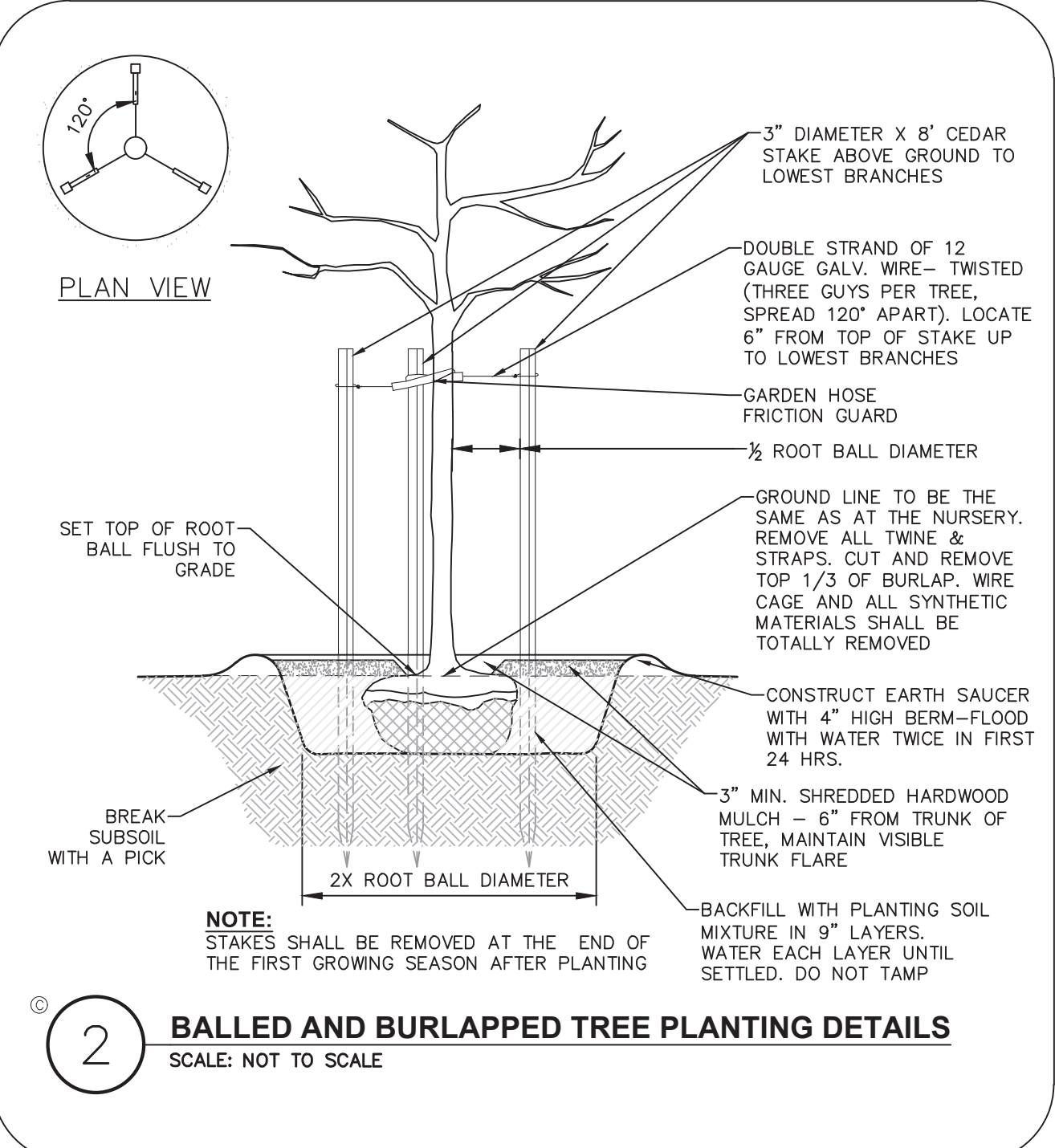


NOTES:

LANDSCAPING:

- THE LANDSCAPE CONTRACTOR SHALL CAREFULLY COORDINATE CONSTRUCTION ACTIVITIES WITH THAT OF THE EARTHWORK CONTRACTOR AND OTHER SITE DEVELOPMENT.
 - THE CONTRACTOR SHALL VERIFY DRAWING DIMENSIONS WITH ACTUAL FIELD CONDITIONS AND INSPECT RELATED WORK AND ADJACENT SURFACES. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF ALL FINISH GRADES WITHIN THE WORK AREA. THE CONTRACTOR SHALL REPORT TO THE LANDSCAPE ARCHITECT/ENGINEER AND OWNER ALL CONDITIONS WHICH PREVENT PROPER EXECUTION OF THIS WORK.
 - THE EXACT LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND UNDERGROUND UTILITIES, WHICH MAY NOT BE INDICATED ON THE DRAWINGS, SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROTECT EXISTING STRUCTURES AND UTILITY SERVICES AND IS RESPONSIBLE FOR THEIR REPLACEMENT IF DAMAGED.
 - THE CONTRACTOR SHALL KEEP THE PREMISES FREE FROM RUBBISH AND ALL DEBRIS AT ALL TIMES AND SHALL ARRANGE MATERIAL STORAGE SO AS NOT TO INTERFERE WITH THE OPERATION OF THE PROJECT. ALL UNUSED MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED FROM THE SITE.
 - NO TREES SHALL BE PLANTED ON EXISTING OR PROPOSED UTILITY LINES.
 - QUALITY ASSURANCE:
 - NOMENCLATURE: PLANT NAMES SHALL CONFORM TO THE LATEST EDITION OF "STANDARDIZED PLANT NAMES" AS ADOPTED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE.
 - SIZE AND GRADING: PLANT SIZES AND GRADING SHALL CONFORM TO THE LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" AS SPONSORED BY THE AMERICAN ASSOCIATION OF NURSEYMEN, INC (AAN), UNLESS OTHERWISE SPECIFIED.
 - NURSERY SOURCE: OBTAIN FRESHLY DUG, HEALTHY, VIGOROUS PLANTS NURSERY GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR A MINIMUM OF 2 YEARS. PLANTS SHALL HAVE BEEN LINED OUT IN ROWS, ANNUALLY CULTIVATED, SPRAYED, PRUNED AND FERTILIZED IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE. ALL PLANTS SHALL HAVE BEEN TRANSPLANTED OR ROOT PRUNED AT LEAST ONCE IN THE PAST 3 YEARS. BALLED AND BURLAPPED PLANTS MUST COME FROM SOIL WHICH WILL HOLD A FIRM ROOT BALL. HEELED IN PLANTS AND PLANTS FROM COLD STORAGE ARE NOT ACCEPTABLE.
 - SUBSTITUTIONS: DO NOT MAKE SUBSTITUTIONS OF TREES AND/OR SHRUB MATERIALS. IF REQUIRED LANDSCAPE MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON-AVAILABILITY AND PROPOSAL FOR USE OF EQUIVALENT MATERIAL. WHEN AUTHORIZED, ADJUSTMENTS OF CONTRACT AMOUNT (IF ANY) WILL BE MADE BY CHANGE ORDER.
 - SEEDING & PLANTING SEASONS AND TIMING CONDITIONS:
 - UNLESS OTHERWISE DIRECTED IN WRITING PLANT TREES AND SHRUBS FROM MARCH 15 TO JUNE 1, AND FROM AUGUST 15 TO OCTOBER 30.
 - PRODUCTS:
 - TOPSOIL: PROVIDE TOPSOIL CONFORMING TO THE FOLLOWING:
 - LOAM TOPSOIL, WELL DRAINED HOMOGENEOUS TEXTURE AND OF UNIFORM GRADE, WITHOUT THE ADMIXTURE OF SUBSOIL, MATERIAL AND FREE OF DENSE MATERIAL, HARDPAN, CLAY, STONES, SOD OR OTHER OBJECTIONABLE MATERIAL.
 - CONTAINING NOT LESS THAN 5% NOR MORE THAN 20% ORGANIC MATTER IN THAT PORTION OF A SAMPLING PASSING A 1/4" SIEVE WHEN DETERMINED BY THE WET COMBUSTION METHOD ON A SAMPLE DRIED AT 105°C.
 - CONTAINING A PH VALUE WITHIN THE RANGE OF 6.5 TO 7.5 ON THAT PORTION OF THE SAMPLE WHICH PASSES A 1/4" SIEVE.
 - CONTAINING THE FOLLOWING WASHED GRADATIONS:

SIEVE DESIGNATION	% PASSING
1"	100
1/4"	97-100
NO 200	20-60
- LIME: NATURAL LIMESTONE CONTAINING AT LEAST 85% OF TOTAL CARBONATES, GROUND TO SUCH FINENESS THAT AT LEAST 90% PASSES A 10-MESH SIEVE AND AT LEAST 50% PASSES A 100-MESH SIEVE.
- FERTILIZER:
 - USE 15-0-15 (NPK) OR ALTERNATIVE RECOMMENDATION BASED ON SOIL ANALYSIS. APPLY AT RATE OF 6 LBS/1000 SF. NO PHOSPHOROUS.
- TREES:
 - PLANTING SOIL MIXTURE: SHALL BE PREMIXED IN BULK, AND CONTAIN THE FOLLOWING BY VOLUME:
 - 50 PARTS TOPSOIL
 - 10 PARTS PEAT
 - 1 PART BONE MEAL
 - PEAT: BROWN TO BLACK IN COLOR, WEED AND SEED FREE, DRIED SPHAGNUM PEAT, CONTAINING NOT MORE THAN 5% MINERAL ON A DRY BASIS AND CONFORMING TO NYS DOT 713-15.
 - BONE MEAL: FINELY GROUND, RAW, MINIMUM 4% NITROGEN AND 20% PHOSPHORIC ACID. IT SHALL BE DELIVERED IN SEALED BAGS SHOWING THE MANUFACTURER'S GUARANTEED ANALYSIS.
- STAKES: 8 FEET LONG, 3 INCH DIA. CEDAR OR P.T. WOOD STAKES.
- HOSE: NEW, 2-PLY GARDEN HOSE NOT LESS THAN 1/2 INCH IN DIAMETER.
- MULCH:
 - TREES: GROUND OR SHREDDED HARDWOOD BARK, UNCOLORED. NO PIECES OVER 2 INCHES GREATEST DIMENSION. FREE FROM SAWDUST.
- EXECUTION:
 - LANDSCAPE WORK SHALL BE UNDERTAKEN AS SOON AS SITE AREAS ARE AVAILABLE.
 - TOPSOIL SHALL BE SPREAD NO LESS THAN 4" OVER SUB-GRADE MATERIAL. SOIL AMENDMENTS SHALL BE THOROUGHLY MIXED INTO THE TOP 4" OF TOPSOIL, FOLLOWING THE SPECIFICATIONS STATED BELOW.
 - PERFORM FINE GRADING TO FINISHED ELEVATION ONLY IMMEDIATELY PRIOR TO PLANTING. PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN SURFACE, FREE OF DEPRESSIONS OR RIDGES WITH A UNIFORM LOOSE, FINE TEXTURE.
 - FERTILIZING:
 - THE SOIL SHALL BE TESTED FOR PH AND LIME ADDED AS NECESSARY. ALL AMENDMENTS SHALL BE CHECKED AND APPROVED BY LANDSCAPE ARCHITECT BEFORE AMENDMENTS ARE MADE.
 - APPLY FERTILIZER AT RATE OF 4 LBS/1000 SF FOR LAWN AREAS.
 - ALL NEWLY PLANTED AREAS SHALL BE KEPT MOIST BY WATERING UNTIL TREES ARE WELL ESTABLISHED. THE LANDSCAPE CONTRACTOR MUST WATER PLANT MATERIAL WHEN NECESSARY FOR 60 DAYS AFTER INSTALLATION.
 - TREES SHALL BE WARRANTED AGAINST DEFECTS INCLUDING POOR GROWTH AND DEATH, EXCEPT WHEN RESULTING FROM OWNER NEGLECT, INCIDENTS THAT ARE BEYOND THE CONTROL OF THE LANDSCAPE INSTALLER AND DAMAGE OR ABUSE BY OTHERS, FOR AT LEAST ONE FULL YEAR AFTER PROJECT COMPLETION.



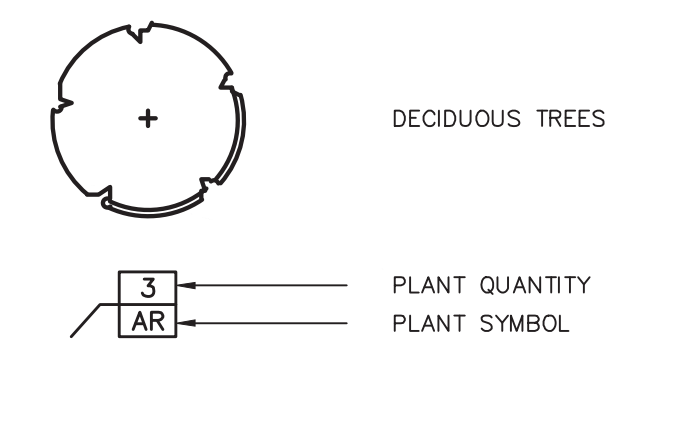
2 BALLED AND BURLAPPED TREE PLANTING DETAILS
SCALE: NOT TO SCALE

PLANT LIST

QTY	ABRV	BOTANICAL NAME	COMMON NAME	SIZE	COND	SPACING	REMARKS
DECIDUOUS TREES							
3	AR	<i>Acer rubrum</i> 'October Glory'	Red Maple	3-3.5" Cal.	B&B	As Shown	Single Stem; Limb up 6'
1	AA	<i>Amelanchier grandiflora</i> 'Autumn Brilliance'	Autumn Brilliance Serviceberry	8-10' Ht.	B&B	As Shown	Multi-Stem
4	BN	<i>Betula nigra</i> 'Hortidge'	Hortidge River Birch	10-12' Ht.	B&B	As Shown	Multi-Stem

- ALL DISTURBED AREAS NOT SPECIFICALLY CALLED OUT FOR NEW IMPROVEMENTS SHALL BE TOPSOILED, SEEDED WITH LAWN SEED MIX, & MULCHED (TYP)
- CONDITION AND PLACEMENT OF PLANTS TO BE REVIEWED AND APPROVED BY VILLAGE PRIOR TO FINAL INSTALLATION (TYP)

LEGEND:



1 LANDSCAPE PLAN
SCALE: 1"=20'

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PRESCOTT PARK

LANDSCAPE PLAN

VILLAGE OF SARANAC LAKE, ESSEX COUNTY, NEW YORK

designed	checked
KJH	BB
date	scale
05/23/18	AS NOTED
project no.	
31835.00	
sheet no.	
	C100