Ontario Specialty Contracting, Inc.

Environmental Remediation ♦ Demolition / Dismantlement ♦ Brownfield Redevelopment

March 8, 2013

Mr. Eugene W. Melnyk, P.E.
Division of Environmental Remediation
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203

Subject: **Armor Electric Storm Sewer Construction Report**
Buffalo Color Remediation Site
NYSDEC Site # C915232
OSC 0913-OMM

Dear Mr. Melnyk:

On behalf of South Buffalo Development Corporation, LLC (SBD), Ontario Specialty Contracting, Inc. (OSC) is submitting a Construction Complete Report for the Armor Electric storm sewer remediation work completed in November of 2012.

The storm sewer remediation work performed at the Armor Electric Property was conducted to ensure that groundwater was effectively isolated from the entering the system. The attached as-built construction drawings and installation log provide both the methods employed and chronological progression of the work performed.

Included with the report are:

- Storm Sewer installation log;
- City of Buffalo Building Permit;
- Buffalo Sewer Authority Temporary Discharge Permit;
- Armor Electric Storm Sewer Trench Spoils Analytical Results; and
- Armor Electric Storm Sewer Rehabilitation As-Built Drawings.

Please review the attached information and feel free to contact me if you have any questions.

Sincerely,

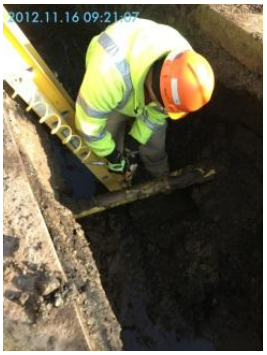
Andrew D. Madden
Project Engineer - *Ontario Specialty Contracting, Inc.*

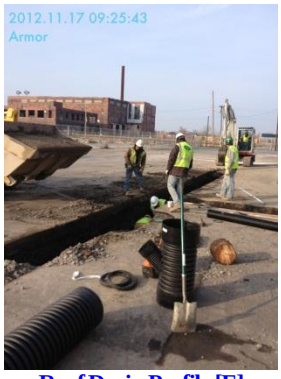
cc:	Richard Galloway	Honeywell
	George Pfeiffer	De Maximis, Inc.
	Daniel Forlastro	AMEC Environment & Infrastructure
	John Yensan	South Buffalo Development, LLC

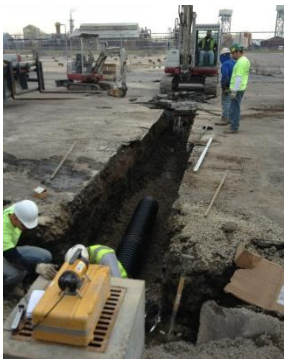
ARMOR ELECTRIC
STORM SEWER INSTALLATION LOG

Ontario Specialty Contracting, Inc.
333 Ganson Street, Buffalo, NY 14203
Phone (716) 856-3333 Fax (716) 842-1785

Project Name:	Buffalo Color	Project Number:	0913-R	Prepared by:	Andrew Madden
Client:	South Buffalo Development, LLC			Frequency:	Progressive
Contractor:	Ontario Specialty Contracting (OSC)	OSC Supervisor:	Andrew Madden		

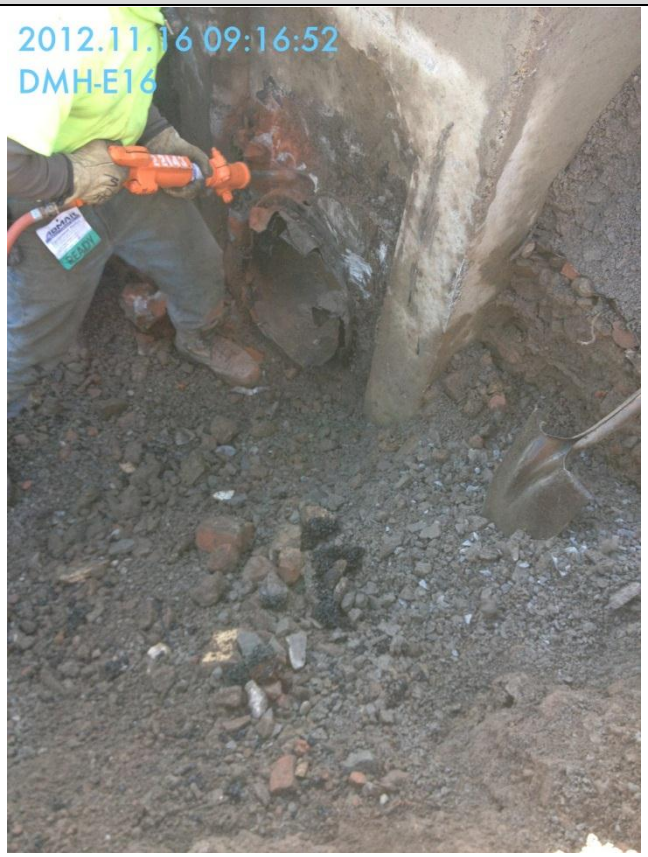
DATE	LOG NARRATIVE	PHOTO LOG LINKS	
Friday November 16th 2012	Niagara Boundary (Surveyors) previously marked out the storm sewer installation centerline within the Armor Electric parking lot on 11/12/2012. Capital Cutting (pavement cutting contractor) cut the existing parking lot asphalt at a 1 foot offset from each side of the marked out centerline on 11/13/2012. OSC began installation on 11/16/2012 and started by exposing the Area E tie in manhole (DMH-E16). Groundwater was encountered at approximately 4 to 5 feet below grade. Subsequently, dewatering activities were initiated; which included progressively pumping groundwater from trench low points into a 21K gal holding tank staged within the Area E property. The northern intersecting 10" clay tile pipe was removed and the replacement 12" HDPE pipe was outfitted with a "water stop" grouting ring before installation by way of quick set hydraulic cement. A small diameter gas line was unexpectedly encountered near station A0+25. National Fuel Gas responded to the site, verified the line was inactive and allowed its removal from the installation trench. A 10" concrete wall was encountered near station A0+35 and was subsequently removed by hydraulic hammers. Catch basin CB-A was set in place, backfilled and the 12" HDPE corrugated pipe connections were completed by way of the designed watertight boot seal application. A licensed journeyman plumber from JW Danforth (JWD), required by the City of Buffalo Permitting Department under the building permit no. 188743 (Attachment A), was on site to assist with the installation. A Mallare Enterprises, Inc. (Mallare) dump truck and driver were onsite to transport direct loaded soil spoils removed from the trench to a Poly sheeted and stone bermed containment cell located within the Area A property for future profile and disposal; which are to be coordinated alongside Area A trench spoils disposal activities. Because the excavated trench spoils were predestined for disposal, field PID (photoionization detector) screenings were reserved for materials exhibiting physical characteristics of concern. The soil spoils excavated throughout the day did not exhibit any unusual characteristics worth noting. The days progress ended with the installation of catch basin CB-A, 100 feet of 12" HDPE Pipe from STA A0+00 to A1+00 and the 6" HDPE Roof Drain Profile [F]. Personnel: OSC (5), JWD (1), Mallare (1) OSC Equipment: Takeuchi TB175 Mini Excavator; Takeuchi TB016 Mini Excavator w/ Hydraulic Hammer; Komatsu WA-320-6 Wheel Loader; Bobcat S185; Mallare Triaxle Dump Truck; Weber DPU-6055 Plate Compactor; Weber BS600 Jumping-Jack Compactor; Sullivan D185Q11JD 185 CFM Air Compressor; Kanalbaulaser 4700 Beam Aligner; TOPCON RLH4C-DB Rotating Laser; Adler 21K gal Holding Tank; 2K lb Carbon Vessel; Inline Dual Bag Filter Skid; Wacker PT2A 2 in Trash Pump. Weather: Clear / 45 Deg	 DMH-E16 Retrofit	 NFG Line Tap
		 Concrete Wall	 Trench Cut

DATE	LOG NARRATIVE	PHOTO LOG LINKS	
Saturday November 17th 2012	Work initiated towards the installation of the 6" HDPE Roof Drain Profile [E] and completing backfilling and compaction activities between STA A0+00 to A1+00 and Roof Drain Profile [F]. Dewatering and trench soil spoils management progressed with unchanged procedures from the previous day. The soil spoils excavated throughout the day did not exhibit any unusual characteristics worth noting. The days progress ended with the installation of 40 feet of 12" HDPE Pipe from STA A1+00 to A1+40 and the 6" HDPE Roof Drain Profile [E]. Personnel: OSC (4), JWD (1), Mallare (1) OSC Equipment: Takeuchi TB175 Mini Excavator; Takeuchi TB016 Mini Excavator w/ Hydraulic Hammer; Komatsu WA-320-6 Wheel Loader; Bobcat S185; Mallare Triaxle Dump Truck; Weber DPU-6055 Plate Compactor; Weber BS600 Jumping-Jack Compactor; Sullivan D185Q11JD 185 CFM Air Compressor; Kanalbaulaser 4700 Beam Aligner; TOPCON RLH4C-DB Rotating Laser; Adler 21K gal Holding Tank; 2K lb Carbon Vessel; Inline Dual Bag Filter Skid; Wacker PT2A 2 in Trash Pump. Weather: Clear / 45 Deg	 Roof Drain Profile [E]	 Armor Trench Spoils
Monday November 19th 2012	Activities initiated with the installation of the 6" HDPE Roof Drain Profile [D] and continuing the trench excavation towards the catch basin CB-E installation location. Dewatering and trench soil spoils management progressed with unchanged procedures from their initiation on 11/16/2012. The soil spoils excavated throughout the day did not exhibit any unusual characteristics worth noting. Backfilling and compaction activities continued alongside installation. The days progress ended with the installation of catch basin CB-E, 45 feet of 12" HDPE Pipe from STA A1+40 to A1+85 and the 6" HDPE Roof Drain Profile [D]. Personnel: OSC (3), JWD (1), Mallare (1) OSC Equipment: Takeuchi TB175 Mini Excavator; Takeuchi TB016 Mini Excavator w/ Hydraulic Hammer; Komatsu WA-320-6 Wheel Loader; Bobcat S185; Mallare Triaxle Dump Truck; Weber DPU-6055 Plate Compactor; Weber BS600 Jumping-Jack Compactor; Sullivan D185Q11JD 185 CFM Air Compressor; Kanalbaulaser 4700 Beam Aligner; TOPCON RLH4C-DB Rotating Laser; Adler 21K gal Holding Tank; 2K lb Carbon Vessel; Inline Dual Bag Filter Skid; Wacker PT2A 2 in Trash Pump. Weather: Clear / 50 Deg	 Crusher Run Compaction	 CB-E Install

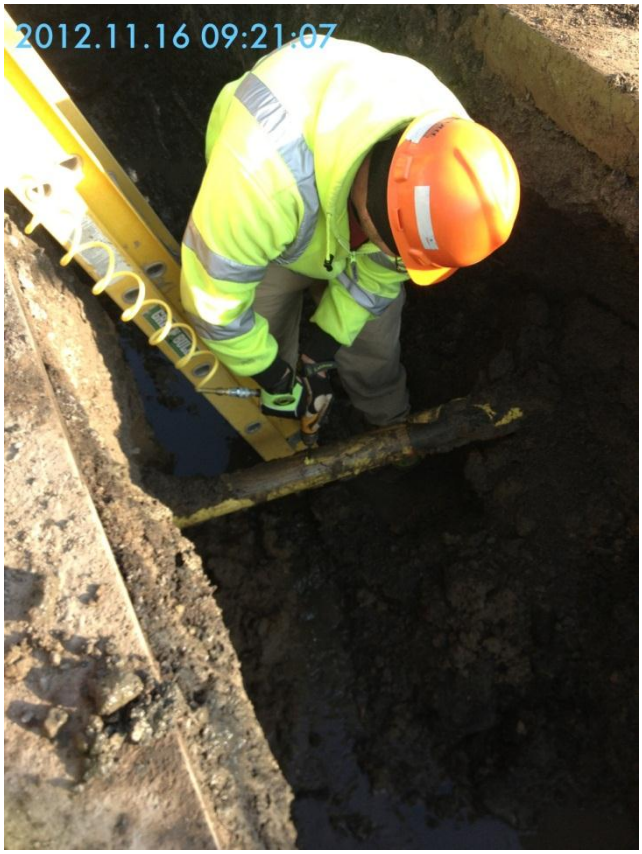
DATE	LOG NARRATIVE	PHOTO LOG LINKS	
Tuesday November 20th 2012	Visone Construction, Inc. (Visone) was onsite to begin pavement restoration work. Visone initiated etching out and compacting a 3" depth within placed and compacted 2" crusher run subbase, alongside installing the frame and grate assembly for CB-A. Following these activities, Visone progressed into placing and rolling asphalt starting from manhole DMH-E16. OSC continued to trench through to STA 2+67 and began installing catch basin CB-G and Roof Drain Profile [C]. Dewatering and trench soil spoils management progressed with unchanged procedures from their initiation on 11/16/2012. The soil spoils excavated throughout the day did not exhibit any unusual characteristics worth noting. The days progress ended with the installation of catch basin CB-G, 82 feet of 12" HDPE Pipe from STA A1+85 to A2+67, 6" HDPE Roof Drain Profile [C] and asphalt pavement restoration from STA A0+00 to A1+50 and Drain Profile [F]. Personnel: OSC (5), JWD (1), Mallare (1), Visone (5) OSC Equipment: Takeuchi TB175 Mini Excavator; Takeuchi TB016 Mini Excavator w/ Hydraulic Hammer; Komatsu WA-320-6 Wheel Loader; Bobcat S185; Mallare Triaxle Dump Truck; Weber DPU-6055 Plate Compactor; Weber BS600 Jumping-Jack Compactor; Sullivan D185Q11JD 185 CFM Air Compressor; Kanalbaulaser 4700 Beam Aligner; TOPCON RLH4C-DB Rotating Laser; Adler 21K gal Holding Tank; 2K lb Carbon Vessel; Inline Dual Bag Filter Skid; Wacker PT2A 2 in Trash Pump. Visone Equipment: CAT 305 Excavator; New Holland LS180 Skid Steer; CAT CB-224E Roller; Dual Axle Dump Truck; Weber DPU-6055 Plate Compactor. Weather: Cloudy / 40 Deg	 Watertight Connection  CB-G Install	 CB-A Frame & Grate  DMH-E16 Pavement
Wednesday November 21st 2012	OSC continued to trench profile B and remove the three latent concrete manholes grouped within the southern side of the parking lot. Following these activities, OSC proceeded to install catch basin CB-D and complete all remaining backfill and compaction efforts. Visone progressed with the fine grading and asphalt pavement placement. Dewatering and trench soil spoils management continued. The minimal amount of concrete and soil spoils left to be removed was transported to the Area A staging location with the Komatsu Front Loader. The last of the excavated concrete and soil spoils did not exhibit any unusual characteristics worth noting. The days progress ended with the installation of catch basin CB-D, 31 feet of 12" HDPE Pipe from STA B0+00 to B0+31 and asphalt pavement restoration from STA A1+50 to A2+67, B0+00 to B0+20 and Drain Profiles [C], [D] and [E]. The remaining areas for pavement restoration were confined to a 20x10 sf area just south of the catch basin CB-D. Personnel: OSC (5), JWD (1), Visone (5) OSC Equipment: Takeuchi TB175 Mini Excavator; Takeuchi TB016 Mini Excavator w/ Hydraulic Hammer; Komatsu WA-320-6 Wheel Loader; Bobcat S185; Weber DPU-6055 Plate Compactor; Weber BS600 Jumping-Jack Compactor; Sullivan D185Q11JD 185 CFM Air Compressor; Kanalbaulaser 4700 Beam Aligner; TOPCON RLH4C-DB Rotating Laser; Adler 21K gal Holding Tank; 2K lb Carbon Vessel; Inline Dual Bag Filter Skid; Wacker PT2A 2 in Trash Pump. Visone Equipment: CAT 305 Excavator; New Holland LS180 Skid Steer; CAT CB-224E Roller; Dual Axle Dump Truck; Weber DPU-6055 Plate Compactor. Weather: Overcast / 45 Deg	 Profile B Advance	 Remaining Restoration

DATE	LOG NARRATIVE	PHOTO LOG LINKS	
Monday November 26th 2012	Visone returned to the site and completes the pavement restoration for the remaining 20x10 sf area just south of the catch basin CB-D. OSC begins processing the groundwater stored within the staged 21K gallon holding tank and discharging the treated effluent to a local Buffalo Sewer Authority sanitary sewer manhole under a temporary discharge permit no. 12-11-TP189 (Attachment B). Water treatment consisted of particulate filtration and carbon absorption. Alongside water treatment activities, OSC continues to demobilize remaining materials and equipment from the site. Personnel: OSC (5), JWD (1), Visone (5) OSC Equipment: Komatsu WA-320-6 Wheel Loader; Bobcat S185; Sullivan D185Q11JD 185 CFM Air Compressor; Adler 21K gal Holding Tank; 2K lb Carbon Vessel; Inline Dual Bag Filter Skid; Wacker PT2A 2 in Trash Pump. Visone Equipment: New Holland LS180 Skid Steer; CAT CB-224E Roller; Dual Axle Dump Truck; Weber DPU-6055 Plate Compactor. Weather: Overcast / 35 Deg	 Pavement Complete  Hard Spoils	 Concrete Spoils  Soil Spoils

PORTRAIT PHOTO LOG



DMH-E16 Retrofit

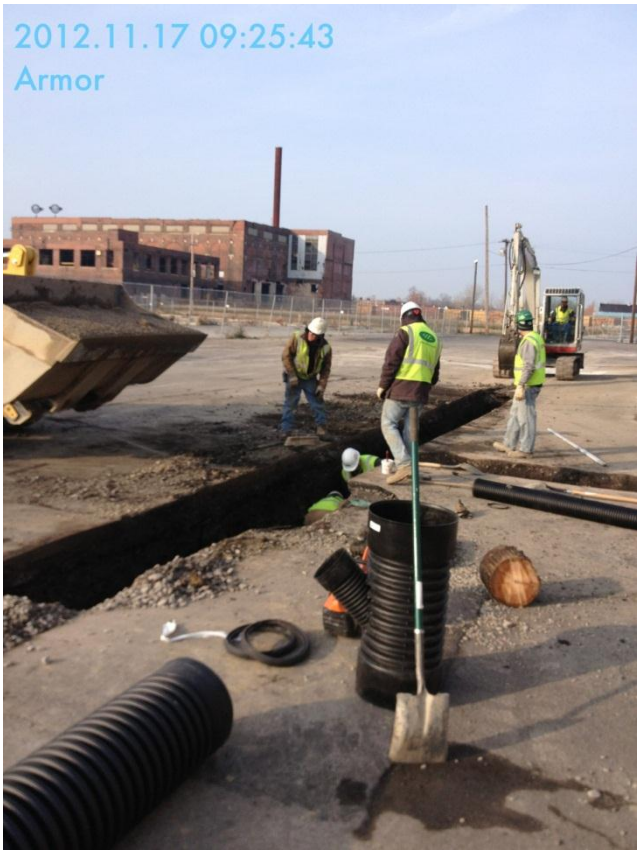


NFG Line Tap

Concrete Wall

Trench Cut

PORTRAIT PHOTO LOG



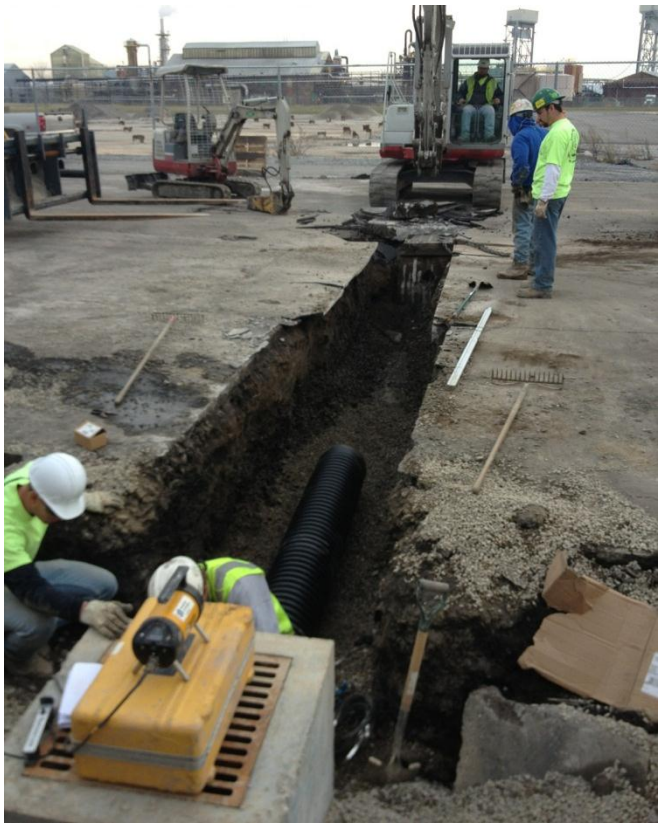
Roof Drain Profile [E]

Crusher Run Compaction

Watertight Connection

CB-A Frame & Grate

PORTRAIT PHOTO LOG



Profile B Advance

Remaining Restoration

Concrete Spoils

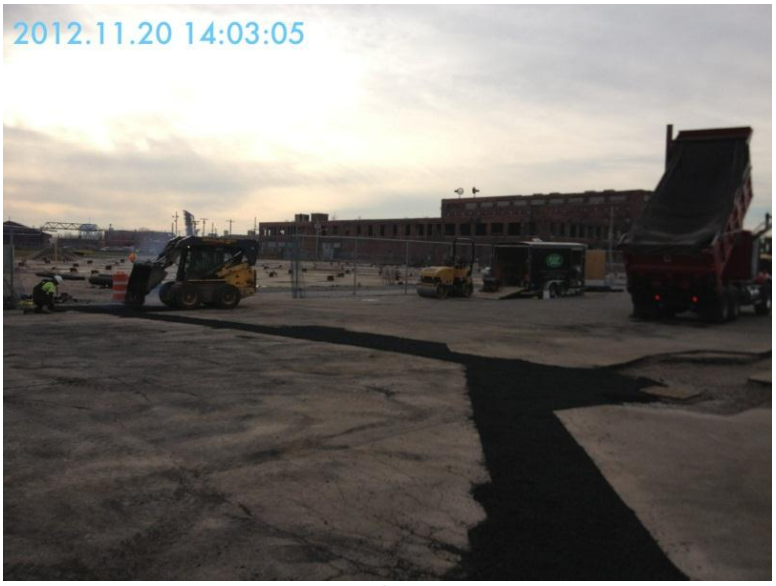
LANDSCAPE PHOTO LOG

Armor Trench Spoils

CB-E Install

CB-G Install

LANDSCAPE PHOTO LOG



DMH-E16 Pavement

Pavement Complete

Hard Spoils

LANDSCAPE PHOTO LOG

Soil Spoils

Attachment A
City of Buffalo Building Permit

Byron W. Brown, Mayor

BUILDING PERMIT

Department of Permit & Inspection Services

.... Building a Better Buffalo

Application Type: PLUMB-GC

Please contact the Inspector at (716)851-4949 or at the number listed below prior to starting any work.

Application/Permit No.: 188743

Location: 343 ELK

Owner: Two(2) primary owners found

Issue Date: 11/27/2012

Issued By: DVIRGIL

Fee(s): $ 214.00

License No.: 174935

License Type: PLU

Value: $0.00

Plans: No

Contractor: JOHN W. DANFORTH COMPANY

SBL No.: 1221200001009121

Land Use: 710 - MANUFACTURING AND PROCESSING

Census Track: 163.00

Inspector:

Description of Work: PLAN SITE STORM SYSTEM 12,800 SQ.FT.

James Comerford Jr.

Commissioner, Dept of Economic Development

Thank you for investing in the City of Buffalo

AND AS SHOWN ON APPLICATION NUMBERED ABOVE. WHICH APPLICATION IS MADE PART OF THIS PERMIT.
*** ALL GENERAL CONTRACTORS AND SUB-CONTRACTORS MUST CARRY A CITY LICENSE ***
ALL WORK PERFORMED AND ANY ASSOCIATED PLANS SUBMITTED FOR THE ISSUANCE OF THIS PERMIT, SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.
THIS PERMIT IS VOID IF FOUND TO BE ISSUED IN VIOLATION OF ANY LAW OR ORDINANCE AND CONDITIONS STATED ABOVE.

THIS PERMIT MUST BE DISPLAYED WHERE IT IS VISIBLE FROM THE STREET

Signature of Contact/Contractor _____ Date: 11/28/2012

Apply for your next Building Permit Online at
http://www.city-buffalo.com

Attachment B
Buffalo Sewer Authority Temporary Discharge Permit

Permit No.: 12-11-TP189

EPA CATEGORY 40 CFR 403
Expiration Date: May 31, 2013
Date Paid: November 13, 2012

BUFFALO SEWER AUTHORITY

TEMPORARY DISCHARGE PERMIT

Permittee: Ontario Specialty Contracting, Inc.
Location Address: 333 Ganson Street, Buffalo, New York, 14203

The above named Permittee is hereby approved to discharge **carbon treated groundwater** to the sanitary or combined sewer only, from:

Armor Electric Motor and Crane Services, 343 Elk Street, Buffalo, New York 14210

to the Buffalo Sewer Authority facilities in accordance with the Buffalo Sewer Authority Regulations, Article VI, Section 14, and subject to the following conditions:

ARTICLE 1 CONDITIONS OF ACCEPTANCE

The discharge of the approved waste by the Permittee shall be subject to the following conditions:

a. Times, Location & Rate

The following location is designated for discharge during the hours listed and subject to the limit for rate of discharge specified:

Location: (see attached map)

Time Discharge is Permitted: 24 hours per day, Monday thru Sunday

Limit on Rate of Discharge: 15 gallons per minute, dry weather only.

b. Operations

The Permittee shall maintain cleanliness, minimize odors and protect the Buffalo Sewer Authority facilities during the permittee's operations. The Permittee shall not permit any condition to arise which may pose a threat to public health or safety.

c. Samples and Analyses

The Buffalo Sewer Authority may from time to time, require the Permittee to sample and analyze its waste discharges. Such sampling and analyses shall be performed and results submitted by a New York State Dept. of Health certified laboratory. The analyses required shall be as specified by the Buffalo Sewer Authority, which also reserves the right, at its convenience, to sample wastes discharged by the Permittee.

d. Refusal to Discharge

The Buffalo Sewer Authority may refuse the Permittee permission to discharge wastes at any time and for any reason whatsoever, for the protection of sewer facilities against damage or flooding; to assure the proper operation and maintenance of said facilities; or to protect public health, safety or welfare.

e. Local Limits

Except as otherwise specified in this permit, the permit holder shall comply with all specific prohibitions, limits on pollutants or pollutant parameters set forth in the Buffalo Sewer Authority Sewer Use Regulations, as amended from time to time, and such prohibitions, limits and parameters shall be deemed pretreatment standards for purposes for the Clean Water Act.

ARTICLE 2 REGULATIONS

The Permittee must conform to all Buffalo Sewer Authority regulations and appropriate Federal, State and County Statutes, rules, mandates, directives, and orders concerning the collection, transportation, treatment and disposal of wastewaters.

ARTICLE 3 INSURANCE AND INDEMNIFICATION

The Permittee, agrees to indemnify and hold harmless the Buffalo Sewer Authority and its agents and employees against any and all claims resulting from work performed under this permit. The permittee shall be solely responsible for any and all injury or damage to its employees or property arising from use of Buffalo Sewer Authority facilities under this permit.

In the event of any alteration, non-renewal or cancellation of these policies, at least (45) forty-five days advance notice shall be given to the Industrial Waste Section, Bird Island Treatment Plant, 90 West Ferry Street, Buffalo, New York 14213 - before such change shall be effective.

ARTICLE 4 TERMINATION FOR VIOLATION OF AGREEMENT

In the event of a violation of any of the terms and conditions of this permit by the Permittee or upon the failure to pay the charges herein specified, the Buffalo Sewer Authority shall terminate the permit by service of notice of termination by registered mail at the Permittee's office address as set forth above.

ARTICLE 5 PERMITTEE APPROVAL

Official Andrew Madden (Print Name) Title Project Manager (Print)

Signature [signature] Date 11-14-2012

ARTICLE 6 BUFFALO SEWER AUTHORITY APPROVAL

Approved as to Content:

Signature [signature] Date 11/14/2012
Industrial Waste Administrator

Effective this 13th day of November, 2012

[signature]
General Manager
Buffalo Sewer Authority

Attachment C
Armor Electric Storm Sewer Trench Spoils Analytical Results

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-29541-1
Client Project/Site: OSC- Former Buffalo Color Sites

For:
Ontario Specialty Contracting, Inc.
333 Ganson St.
Buffalo, New York 14203

Attn: Andrew Madden

Authorized for release by:
12/14/2012 1:36:46 PM
Robert Wienke
Project Administrator
robert.wienke@testamericainc.com

Designee for

John Schove
Project Manager I
john.schove@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Ontario Specialty Contracting, Inc.
Project/Site: OSC- Former Buffalo Color Sites

TestAmerica Job ID: 480-29541-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-29541-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-29541-1

Receipt
The samples were received on 12/4/2012 3:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.8º C, 3.2º C and 3.6º C.

GC/MS VOA
Method(s) 8260B: The following sample(s) was diluted due to the nature of the TCLP sample matrix: (LB 480-94515/1-A), BCP_AREA_E_ARMOR_PROFILE_20121203 (480-29541-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC/MS Semi VOA
No analytical or quality issues were noted.

GC Semi VOA
Method(s) 8082: The following sample contained more than one Aroclor component: BCP_AREA_E_ARMOR_PROFILE_20121203 (480-29541-1). Results are estimated due to shared peaks.

Method(s) 8082: The continuing calibration verification (CCV) for surrogate Decachlorobiphenly associated with batch 94713 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data has been reported.

Method(s) 8082: The continuing calibration verification (CCV) for surrogate Decachlorobiphenyl associated with batch 94713 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data has been reported.

No other analytical or quality issues were noted.

Metals
Method(s) 6010B: The TCLP Extractor Blank, LB 480-94393, contained total barium above the reporting limit (RL). The associated sample BCP_AREA_E_ARMOR_PROFILE_20121203 (480-29541-1) contained a detect for this analyte at a concentration greater than 10X the value found in the TCLP Extractor Blank; therefore, re-extraction and/or re-analysis of the sample was not performed.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: OSC- Former Buffalo Color Sites

TestAmerica Job ID: 480-29541-1

Client Sample ID:
BCP_AREA_E_ARMOR_PROFILE_20121203

Lab Sample ID: 480-29541-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	0.29		0.29	0.056	mg/Kg	1	☼	8082	Total/NA
PCB-1254	0.17	J	0.29	0.13	mg/Kg	1	☼	8082	Total/NA
Barium	0.98	B	0.0020	0.00070	mg/L	1		6010B	TCLP
Cadmium	0.061		0.0010	0.00050	mg/L	1		6010B	TCLP
Chromium	0.0065		0.0040	0.0010	mg/L	1		6010B	TCLP
Lead	0.061		0.0050	0.0030	mg/L	1		6010B	TCLP
Mercury	0.00014	J	0.00020	0.00012	mg/L	1		7470A	TCLP

Client: Ontario Specialty Contracting, Inc.
Project/Site: OSC- Former Buffalo Color Sites

TestAmerica Job ID: 480-29541-1

Client Sample ID: BCP_AREA_E_ARMOR_PROFILE_20121203
Lab Sample ID: 480-29541-1
Date Collected: 12/03/12 15:00
Date Received: 12/04/12 15:30
Matrix: Solid

Method: 8260B - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			12/10/12 12:20	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			12/10/12 12:20	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			12/10/12 12:20	10
Benzene	ND		0.010	0.0041	mg/L			12/10/12 12:20	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			12/10/12 12:20	10
Chlorobenzene	ND		0.010	0.0075	mg/L			12/10/12 12:20	10
Chloroform	ND		0.010	0.0034	mg/L			12/10/12 12:20	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			12/10/12 12:20	10
Trichloroethene	ND		0.010	0.0046	mg/L			12/10/12 12:20	10
Vinyl chloride	ND		0.010	0.0090	mg/L			12/10/12 12:20	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*66 - 137*		*12/10/12 12:20*	*10*
4-Bromofluorobenzene (Surr)	*86*		*73 - 120*		*12/10/12 12:20*	*10*
Toluene-d8 (Surr)	*94*		*71 - 126*		*12/10/12 12:20*	*10*

Method: 8270C - TCLP Semivolatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		12/10/12 16:55	12/11/12 19:19	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		12/10/12 16:55	12/11/12 19:19	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		12/10/12 16:55	12/11/12 19:19	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		12/10/12 16:55	12/11/12 19:19	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		12/10/12 16:55	12/11/12 19:19	1
3-Methylphenol	ND		0.010	0.00040	mg/L		12/10/12 16:55	12/11/12 19:19	1
4-Methylphenol	ND		0.010	0.00036	mg/L		12/10/12 16:55	12/11/12 19:19	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		12/10/12 16:55	12/11/12 19:19	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		12/10/12 16:55	12/11/12 19:19	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		12/10/12 16:55	12/11/12 19:19	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		12/10/12 16:55	12/11/12 19:19	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		12/10/12 16:55	12/11/12 19:19	1
Pyridine	ND		0.025	0.00041	mg/L		12/10/12 16:55	12/11/12 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*102*		*52 - 132*	*12/10/12 16:55*	*12/11/12 19:19*	*1*
2-Fluorobiphenyl	*84*		*48 - 120*	*12/10/12 16:55*	*12/11/12 19:19*	*1*
2-Fluorophenol	*35*		*20 - 120*	*12/10/12 16:55*	*12/11/12 19:19*	*1*
Nitrobenzene-d5	*80*		*46 - 120*	*12/10/12 16:55*	*12/11/12 19:19*	*1*
Phenol-d5	*31*		*16 - 120*	*12/10/12 16:55*	*12/11/12 19:19*	*1*
p-Terphenyl-d14	*102*		*67 - 150*	*12/10/12 16:55*	*12/11/12 19:19*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.29	0.056	mg/Kg	☼	12/06/12 16:58	12/08/12 20:46	1
PCB-1221	ND		0.29	0.056	mg/Kg	☼	12/06/12 16:58	12/08/12 20:46	1
PCB-1232	ND		0.29	0.056	mg/Kg	☼	12/06/12 16:58	12/08/12 20:46	1
PCB-1242	ND		0.29	0.056	mg/Kg	☼	12/06/12 16:58	12/08/12 20:46	1
PCB-1248	**0.29**		0.29	0.056	mg/Kg	☼	12/06/12 16:58	12/08/12 20:46	1
PCB-1254	**0.17**	**J**	0.29	0.13	mg/Kg	☼	12/06/12 16:58	12/08/12 20:46	1
PCB-1260	ND		0.29	0.13	mg/Kg	☼	12/06/12 16:58	12/08/12 20:46	1

TestAmerica Buffalo

Client: Ontario Specialty Contracting, Inc.
Project/Site: OSC- Former Buffalo Color Sites

TestAmerica Job ID: 480-29541-1

Client Sample ID: BCP_AREA_E_ARMOR_PROFILE_20121203

Lab Sample ID: 480-29541-1

Date Collected: 12/03/12 15:00

Matrix: Solid

Date Received: 12/04/12 15:30

Percent Solids: 82.1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*139*		*36 - 182*	*12/06/12 16:58*	*12/08/12 20:46*	*1*
Tetrachloro-m-xylene	*113*		*24 - 172*	*12/06/12 16:58*	*12/08/12 20:46*	*1*

Method: 6010B - TCLP RCRA Metals - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0056	mg/L		12/07/12 12:50	12/10/12 15:58	1
Barium	**0.98**	**B**	0.0020	0.00070	mg/L		12/07/12 12:50	12/10/12 15:58	1
Cadmium	**0.061**		0.0010	0.00050	mg/L		12/07/12 12:50	12/10/12 15:58	1
Chromium	**0.0065**		0.0040	0.0010	mg/L		12/07/12 12:50	12/10/12 15:58	1
Lead	**0.061**		0.0050	0.0030	mg/L		12/07/12 12:50	12/10/12 15:58	1
Selenium	ND		0.015	0.0087	mg/L		12/07/12 12:50	12/10/12 15:58	1
Silver	ND		0.0030	0.0017	mg/L		12/07/12 12:50	12/10/12 15:58	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00014**	**J**	0.00020	0.00012	mg/L		12/07/12 13:30	12/07/12 16:19	1

Surrogate Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: OSC- Former Buffalo Color Sites

TestAmerica Job ID: 480-29541-1

Method: 8260B - TCLP Volatiles

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	BFB	TOL
Lab Sample ID	Client Sample ID	(66-137)	(73-120)	(71-126)
LCS 480-94955/3	Lab Control Sample	92	87	92
MB 480-94955/4	Method Blank	92	88	94

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - TCLP Volatiles

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	BFB	TOL
Lab Sample ID	Client Sample ID	(66-137)	(73-120)	(71-126)
480-29541-1	BCP_AREA_E_ARMOR_PROFILE_	91	86	94
LB 480-94515/1-A LB	Method Blank	90	87	95

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C - TCLP Semivolatiles

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(52-132)	(48-120)	(20-120)	(46-120)	(16-120)	(67-150)
LCS 480-95069/2-A	Lab Control Sample	109	97	42	92	37	108
MB 480-95069/1-A	Method Blank	105	92	41	88	34	110

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = p-Terphenyl-d14

Method: 8270C - TCLP Semivolatiles

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(52-132)	(48-120)	(20-120)	(46-120)	(16-120)	(67-150)
480-29541-1	BCP_AREA_E_ARMOR_PROFILE_	102	84	35	80	31	102

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol

Surrogate Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: OSC- Former Buffalo Color Sites

TestAmerica Job ID: 480-29541-1

NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = p-Terphenyl-d14

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		DCB2	TCX2										
Lab Sample ID	Client Sample ID	(36-182)	(24-172)										
480-29541-1	BCP_AREA_E_ARMOR_PROFILE_	139	113										
LCS 480-94541/2-A	Lab Control Sample	162	47										
MB 480-94541/1-A	Method Blank	137	113										

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8260B - TCLP Volatiles

Lab Sample ID: MB 480-94955/4
Matrix: Solid
Analysis Batch: 94955

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			12/10/12 10:26	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			12/10/12 10:26	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			12/10/12 10:26	1
Benzene	ND		0.0010	0.00041	mg/L			12/10/12 10:26	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			12/10/12 10:26	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			12/10/12 10:26	1
Chloroform	ND		0.0010	0.00034	mg/L			12/10/12 10:26	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			12/10/12 10:26	1
Trichloroethene	ND		0.0010	0.00046	mg/L			12/10/12 10:26	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			12/10/12 10:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*66 - 137*		*12/10/12 10:26*	*1*
4-Bromofluorobenzene (Surr)	*88*		*73 - 120*		*12/10/12 10:26*	*1*
Toluene-d8 (Surr)	*94*		*71 - 126*		*12/10/12 10:26*	*1*

Lab Sample ID: LCS 480-94955/3
Matrix: Solid
Analysis Batch: 94955

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1-Dichloroethene			0.0250	0.0198		mg/L		79	58 - 121		
1,2-Dichloroethane			0.0250	0.0227		mg/L		91	75 - 127		
Benzene			0.0250	0.0228		mg/L		91	71 - 124		
Chlorobenzene			0.0250	0.0229		mg/L		92	72 - 120		
Tetrachloroethene			0.0250	0.0198		mg/L		79	74 - 122		
Trichloroethene			0.0250	0.0223		mg/L		89	74 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*66 - 137*
4-Bromofluorobenzene (Surr)	*87*		*73 - 120*
Toluene-d8 (Surr)	*92*		*71 - 126*

Lab Sample ID: LB 480-94515/1-A LB
Matrix: Solid
Analysis Batch: 94955

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			12/10/12 11:25	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			12/10/12 11:25	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			12/10/12 11:25	10
Benzene	ND		0.010	0.0041	mg/L			12/10/12 11:25	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			12/10/12 11:25	10
Chlorobenzene	ND		0.010	0.0075	mg/L			12/10/12 11:25	10
Chloroform	ND		0.010	0.0034	mg/L			12/10/12 11:25	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			12/10/12 11:25	10
Trichloroethene	ND		0.010	0.0046	mg/L			12/10/12 11:25	10

Method: 8260B - TCLP Volatiles (Continued)

Lab Sample ID: LB 480-94515/1-A LB
Matrix: Solid
Analysis Batch: 94955

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.010	0.0090	mg/L			12/10/12 11:25	10

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*66 - 137*		*12/10/12 11:25*	*10*
4-Bromofluorobenzene (Surr)	*87*		*73 - 120*		*12/10/12 11:25*	*10*
Toluene-d8 (Surr)	*95*		*71 - 126*		*12/10/12 11:25*	*10*

Method: 8270C - TCLP Semivolatiles

Lab Sample ID: MB 480-95069/1-A
Matrix: Solid
Analysis Batch: 95193

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95069

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.0025	0.00012	mg/L		12/10/12 16:55	12/11/12 11:16	1
2,4,5-Trichlorophenol	ND		0.0013	0.00012	mg/L		12/10/12 16:55	12/11/12 11:16	1
2,4,6-Trichlorophenol	ND		0.0013	0.00015	mg/L		12/10/12 16:55	12/11/12 11:16	1
2,4-Dinitrotoluene	ND		0.0013	0.00011	mg/L		12/10/12 16:55	12/11/12 11:16	1
2-Methylphenol	ND		0.0013	0.00010	mg/L		12/10/12 16:55	12/11/12 11:16	1
3-Methylphenol	ND		0.0025	0.00010	mg/L		12/10/12 16:55	12/11/12 11:16	1
4-Methylphenol	ND		0.0025	0.000090	mg/L		12/10/12 16:55	12/11/12 11:16	1
Hexachlorobenzene	ND		0.0013	0.00013	mg/L		12/10/12 16:55	12/11/12 11:16	1
Hexachlorobutadiene	ND		0.0013	0.00017	mg/L		12/10/12 16:55	12/11/12 11:16	1
Hexachloroethane	ND		0.0013	0.00015	mg/L		12/10/12 16:55	12/11/12 11:16	1
Nitrobenzene	ND		0.0013	0.000073	mg/L		12/10/12 16:55	12/11/12 11:16	1
Pentachlorophenol	ND		0.0025	0.00055	mg/L		12/10/12 16:55	12/11/12 11:16	1
Pyridine	ND		0.0063	0.00010	mg/L		12/10/12 16:55	12/11/12 11:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*105*		*52 - 132*	*12/10/12 16:55*	*12/11/12 11:16*	*1*
2-Fluorobiphenyl	*92*		*48 - 120*	*12/10/12 16:55*	*12/11/12 11:16*	*1*
2-Fluorophenol	*41*		*20 - 120*	*12/10/12 16:55*	*12/11/12 11:16*	*1*
Nitrobenzene-d5	*88*		*46 - 120*	*12/10/12 16:55*	*12/11/12 11:16*	*1*
Phenol-d5	*34*		*16 - 120*	*12/10/12 16:55*	*12/11/12 11:16*	*1*
p-Terphenyl-d14	*110*		*67 - 150*	*12/10/12 16:55*	*12/11/12 11:16*	*1*

Lab Sample ID: LCS 480-95069/2-A
Matrix: Solid
Analysis Batch: 95193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95069

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.0500	0.0348		mg/L		70	32 - 120
2,4-Dinitrotoluene	0.0500	0.0517		mg/L		103	65 - 154
Hexachloroethane	0.0500	0.0317		mg/L		63	14 - 101
Pentachlorophenol	0.0500	0.0485		mg/L		97	39 - 136

Method: 8270C - TCLP Semivolatiles (Continued)

Lab Sample ID: LCS 480-95069/2-A
Matrix: Solid
Analysis Batch: 95193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95069

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*109*		*52 - 132*
2-Fluorobiphenyl	*97*		*48 - 120*
2-Fluorophenol	*42*		*20 - 120*
Nitrobenzene-d5	*92*		*46 - 120*
Phenol-d5	*37*		*16 - 120*
p-Terphenyl-d14	*108*		*67 - 150*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-94541/1-A
Matrix: Solid
Analysis Batch: 94356

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94541

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.19	0.037	mg/Kg		12/06/12 16:57	12/07/12 06:45	1
PCB-1221	ND		0.19	0.037	mg/Kg		12/06/12 16:57	12/07/12 06:45	1
PCB-1232	ND		0.19	0.037	mg/Kg		12/06/12 16:57	12/07/12 06:45	1
PCB-1242	ND		0.19	0.037	mg/Kg		12/06/12 16:57	12/07/12 06:45	1
PCB-1248	ND		0.19	0.037	mg/Kg		12/06/12 16:57	12/07/12 06:45	1
PCB-1254	ND		0.19	0.088	mg/Kg		12/06/12 16:57	12/07/12 06:45	1
PCB-1260	ND		0.19	0.088	mg/Kg		12/06/12 16:57	12/07/12 06:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*137*		*36 - 182*	*12/06/12 16:57*	*12/07/12 06:45*	*1*
Tetrachloro-m-xylene	*113*		*24 - 172*	*12/06/12 16:57*	*12/07/12 06:45*	*1*

Lab Sample ID: LCS 480-94541/2-A
Matrix: Solid
Analysis Batch: 94356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94541

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.78	2.14		mg/Kg		120	51 - 185
PCB-1260	1.78	2.25		mg/Kg		126	61 - 184

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*162*		*36 - 182*
Tetrachloro-m-xylene	*47*		*24 - 172*

Method: 6010B - TCLP RCRA Metals

Lab Sample ID: MB 480-94707/2-A
Matrix: Solid
Analysis Batch: 95151

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94707

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0056	mg/L		12/07/12 12:50	12/10/12 15:51	1
Barium	ND		0.0020	0.00070	mg/L		12/07/12 12:50	12/10/12 15:51	1

Method: 6010B - TCLP RCRA Metals (Continued)

Lab Sample ID: MB 480-94707/2-A
Matrix: Solid
Analysis Batch: 95151

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94707

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010	0.00050	mg/L		12/07/12 12:50	12/10/12 15:51	1
Chromium	ND		0.0040	0.0010	mg/L		12/07/12 12:50	12/10/12 15:51	1
Lead	ND		0.0050	0.0030	mg/L		12/07/12 12:50	12/10/12 15:51	1
Selenium	ND		0.015	0.0087	mg/L		12/07/12 12:50	12/10/12 15:51	1
Silver	ND		0.0030	0.0017	mg/L		12/07/12 12:50	12/10/12 15:51	1

Lab Sample ID: LCS 480-94707/3-A
Matrix: Solid
Analysis Batch: 95151

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94707

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.208		mg/L		104	80 - 120
Barium	0.200	0.219		mg/L		110	80 - 120
Cadmium	0.200	0.199		mg/L		100	80 - 120
Chromium	0.200	0.198		mg/L		99	80 - 120
Lead	0.200	0.199		mg/L		99	80 - 120
Selenium	0.200	0.206		mg/L		103	80 - 120
Silver	0.0500	0.0523		mg/L		105	80 - 120

Lab Sample ID: LB 480-94393/1-B LB
Matrix: Solid
Analysis Batch: 95151

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 94707

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0056	mg/L		12/07/12 12:50	12/10/12 15:44	1
Barium	0.0385		0.0020	0.00070	mg/L		12/07/12 12:50	12/10/12 15:44	1
Cadmium	ND		0.0010	0.00050	mg/L		12/07/12 12:50	12/10/12 15:44	1
Chromium	ND		0.0040	0.0010	mg/L		12/07/12 12:50	12/10/12 15:44	1
Lead	ND		0.0050	0.0030	mg/L		12/07/12 12:50	12/10/12 15:44	1
Selenium	ND		0.015	0.0087	mg/L		12/07/12 12:50	12/10/12 15:44	1
Silver	ND		0.0030	0.0017	mg/L		12/07/12 12:50	12/10/12 15:44	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 480-94715/2-A
Matrix: Solid
Analysis Batch: 94926

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 94715

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/07/12 13:30	12/07/12 16:10	1

Lab Sample ID: LCS 480-94715/3-A
Matrix: Solid
Analysis Batch: 94926

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94715

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00668	0.00582		mg/L		87	80 - 120

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: LB 480-94393/1-C LB
Matrix: Solid
Analysis Batch: 94926

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 94715

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/07/12 13:30	12/07/12 16:08	1

GC/MS VOA

Leach Batch: 94515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-29541-1	BCP_AREA_E_ARMOR_PROFILE_20121203	TCLP	Solid	1311	
LB 480-94515/1-A LB	Method Blank	TCLP	Solid	1311	

Analysis Batch: 94955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-29541-1	BCP_AREA_E_ARMOR_PROFILE_20121203	TCLP	Solid	8260B	94515
LB 480-94515/1-A LB	Method Blank	TCLP	Solid	8260B	94515
LCS 480-94955/3	Lab Control Sample	Total/NA	Solid	8260B	
MB 480-94955/4	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Leach Batch: 94393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-29541-1	BCP_AREA_E_ARMOR_PROFILE_20121203	TCLP	Solid	1311	

Prep Batch: 95069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-29541-1	BCP_AREA_E_ARMOR_PROFILE_20121203	TCLP	Solid	3510C	94393
LCS 480-95069/2-A	Lab Control Sample	Total/NA	Solid	3510C	
MB 480-95069/1-A	Method Blank	Total/NA	Solid	3510C	

Analysis Batch: 95193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-29541-1	BCP_AREA_E_ARMOR_PROFILE_20121203	TCLP	Solid	8270C	95069
LCS 480-95069/2-A	Lab Control Sample	Total/NA	Solid	8270C	95069
MB 480-95069/1-A	Method Blank	Total/NA	Solid	8270C	95069

GC Semi VOA

Analysis Batch: 94356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-94541/2-A	Lab Control Sample	Total/NA	Solid	8082	94541
MB 480-94541/1-A	Method Blank	Total/NA	Solid	8082	94541

Prep Batch: 94541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-29541-1	BCP_AREA_E_ARMOR_PROFILE_20121203	Total/NA	Solid	3550B	
LCS 480-94541/2-A	Lab Control Sample	Total/NA	Solid	3550B	
MB 480-94541/1-A	Method Blank	Total/NA	Solid	3550B	

Analysis Batch: 94713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-29541-1	BCP_AREA_E_ARMOR_PROFILE_20121203	Total/NA	Solid	8082	94541

Metals

Leach Batch: 94393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-29541-1	BCP_AREA_E_ARMOR_PROFILE_20121203	TCLP	Solid	1311	

Metals (Continued)

Leach Batch: 94393 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 480-94393/1-B LB	Method Blank	TCLP	Solid	1311	
LB 480-94393/1-C LB	Method Blank	TCLP	Solid	1311	

Prep Batch: 94707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-29541-1	BCP_AREA_E_ARMOR_PROFILE_20121203	TCLP	Solid	3010A	94393
LB 480-94393/1-B LB	Method Blank	TCLP	Solid	3010A	94393
LCS 480-94707/3-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 480-94707/2-A	Method Blank	Total/NA	Solid	3010A	

Prep Batch: 94715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-29541-1	BCP_AREA_E_ARMOR_PROFILE_20121203	TCLP	Solid	7470A	94393
LB 480-94393/1-C LB	Method Blank	TCLP	Solid	7470A	94393
LCS 480-94715/3-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 480-94715/2-A	Method Blank	Total/NA	Solid	7470A	

Analysis Batch: 94926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-29541-1	BCP_AREA_E_ARMOR_PROFILE_20121203	TCLP	Solid	7470A	94715
LB 480-94393/1-C LB	Method Blank	TCLP	Solid	7470A	94715
LCS 480-94715/3-A	Lab Control Sample	Total/NA	Solid	7470A	94715
MB 480-94715/2-A	Method Blank	Total/NA	Solid	7470A	94715

Analysis Batch: 95151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-29541-1	BCP_AREA_E_ARMOR_PROFILE_20121203	TCLP	Solid	6010B	94707
LB 480-94393/1-B LB	Method Blank	TCLP	Solid	6010B	94707
LCS 480-94707/3-A	Lab Control Sample	Total/NA	Solid	6010B	94707
MB 480-94707/2-A	Method Blank	Total/NA	Solid	6010B	94707

General Chemistry

Analysis Batch: 94316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-29541-1	BCP_AREA_E_ARMOR_PROFILE_20121203	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Ontario Specialty Contracting, Inc.
Project/Site: OSC- Former Buffalo Color Sites

TestAmerica Job ID: 480-29541-1

Client Sample ID:
BCP_AREA_E_ARMOR_PROFILE_20121203
Date Collected: 12/03/12 15:00
Date Received: 12/04/12 15:30

Lab Sample ID: 480-29541-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			94515	12/06/12 15:56	ND	TAL BUF
TCLP	Analysis	8260B		10	94955	12/10/12 12:20	TRB	TAL BUF
TCLP	Leach	1311			94393	12/06/12 08:16	ND	TAL BUF
TCLP	Prep	3510C			95069	12/10/12 16:55	ND	TAL BUF
TCLP	Analysis	8270C		1	95193	12/11/12 19:19	HTL	TAL BUF
Total/NA	Prep	3550B			94541	12/06/12 16:58	DE	TAL BUF
Total/NA	Analysis	8082		1	94713	12/08/12 20:46	JM	TAL BUF
TCLP	Leach	1311			94393	12/06/12 08:16	ND	TAL BUF
TCLP	Prep	7470A			94715	12/07/12 13:30	JRK	TAL BUF
TCLP	Analysis	7470A		1	94926	12/07/12 16:19	JRK	TAL BUF
TCLP	Prep	3010A			94707	12/07/12 12:50	SS	TAL BUF
TCLP	Analysis	6010B		1	95151	12/10/12 15:58	LH	TAL BUF
Total/NA	Analysis	Moisture		1	94316	12/05/12 17:40	MD	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: OSC- Former Buffalo Color Sites

TestAmerica Job ID: 480-29541-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAC	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAC	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-13
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	06-30-13
Illinois	NELAC	5	200003	09-30-13
Iowa	State Program	7	374	03-01-13
Kansas	NELAC	7	E-10187	01-31-13
Kentucky	State Program	4	90029	12-31-12
Kentucky (UST)	State Program	4	30	04-01-13
Louisiana	NELAC	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-13
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13
Minnesota	NELAC	5	036-999-337	12-31-12
New Hampshire	NELAC	1	2973	09-11-13
New Hampshire	NELAC	1	2337	11-17-13
New Jersey	NELAC	2	NY455	06-30-13
New York	NELAC	2	10026	03-31-13
North Dakota	State Program	8	R-176	03-31-13
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAC	10	NY200003	06-09-13
Pennsylvania	NELAC	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-13
Texas	NELAC	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAC	3	460185	09-14-13
Washington	State Program	10	C784	02-10-13
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

Method Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: OSC- Former Buffalo Color Sites

TestAmerica Job ID: 480-29541-1

Method	Method Description	Protocol	Laboratory
8260B	TCLP Volatiles	SW846	TAL BUF
8270C	TCLP Semivolatiles	SW846	TAL BUF
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010B	TCLP RCRA Metals	SW846	TAL BUF
7470A	TCLP Mercury	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Ontario Specialty Contracting, Inc.
Project/Site: OSC- Former Buffalo Color Sites

TestAmerica Job ID: 480-29541-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-29541-1	BCP_AREA_E_ARMOR_PROFILE_20121203	Solid	12/03/12 15:00	12/04/12 15:30

Login Sample Receipt Checklist

Client: Ontario Specialty Contracting, Inc.

Job Number: 480-29541-1

Login Number: 29541

List Source: TestAmerica Buffalo

List Number: 1

Creator: Robitaille, Zach L

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	OSC
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica Buffalo
10 Hazelwood Drive

Amherst, NY 14228
phone 716.504.9852 fax 716.691.7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Schove, John	Site Contact: Andrew Madden		COC No:
Ontario Specialty Contracting Inc.	Tel/Fax: (716) 655-1250	Lab Contact: Schove, John	Carrier:	1 of 1 COCs
333 Ganson Street	Analysis Turnaround Time			Job No. 0913-R
Buffalo, NY, 14203	Calendar (C) or Work Days (W) W			
716-856-3333 Phone	TAT			SDG No.
716-842-1630 FAX	[X] 2 weeks			
Project Name: OSC - Former Buffalo Color Sites	[ ] 1 week			
Site: Honeywell Buffalo Color	[ ] 2 days			
PO# 52140	[ ] 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.		6010B; 7470A; 8270C	8082 - TCL PCBs - OLM04.3	8260B - TCLP Volatiles												Sample Specific Notes:
BCP_Area E_Armor_Profile_20121203	12/3/2012	15:00	C	S	6	N	2	2	2												
Container Volume (oz)							8	8	8												
Preservation Used: 1= Ice 2= HCl 3= H2SO4 4=HNO3 5=NaOH 6=Other							1-G	1-G	1-G												

Possible Hazard Identification
[ ] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [X] Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
[ ] Return To Client [X] Disposal By Lab [ ] Archive For ____ Months

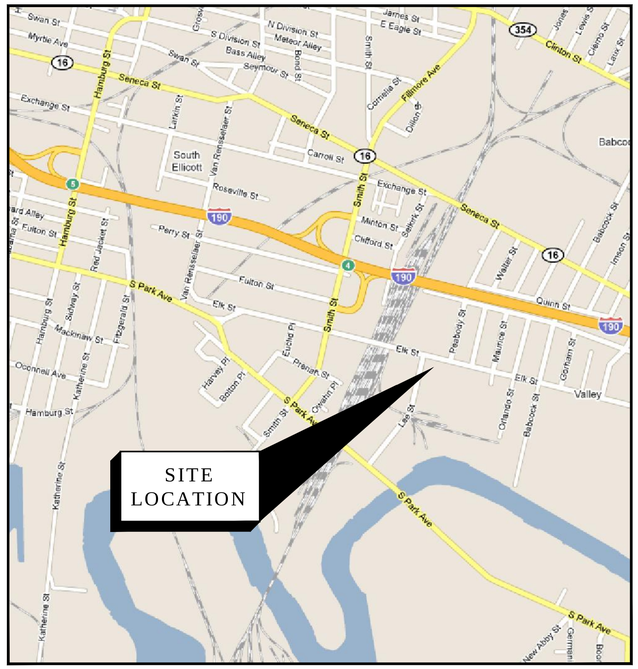
Special Instructions/QC Requirements & Comments:

Container Code: A=Amber G=Glass P=Poly/Plastic S=Summa T=Tedlar V=Vial

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
TOM WAGNER	OSC	12/4/12 15:30	Zachary J Robinson	TA BUFFALO	12/4/12 1530
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

#3 3@7.8 3.2 3.6

Attachment D
Armor Electric Storm Sewer Rehabilitation Drawings



LOCATION PLAN

ONTARIO SPECIALTY CONTRACTORS
HONEYWELL/ FORMER BUFFLAO COLOR FACILITY
BUFFALO, NEW YORK

ARMOR ELECTRIC DRAINAGE DESIGN

NOVEMBER 2012

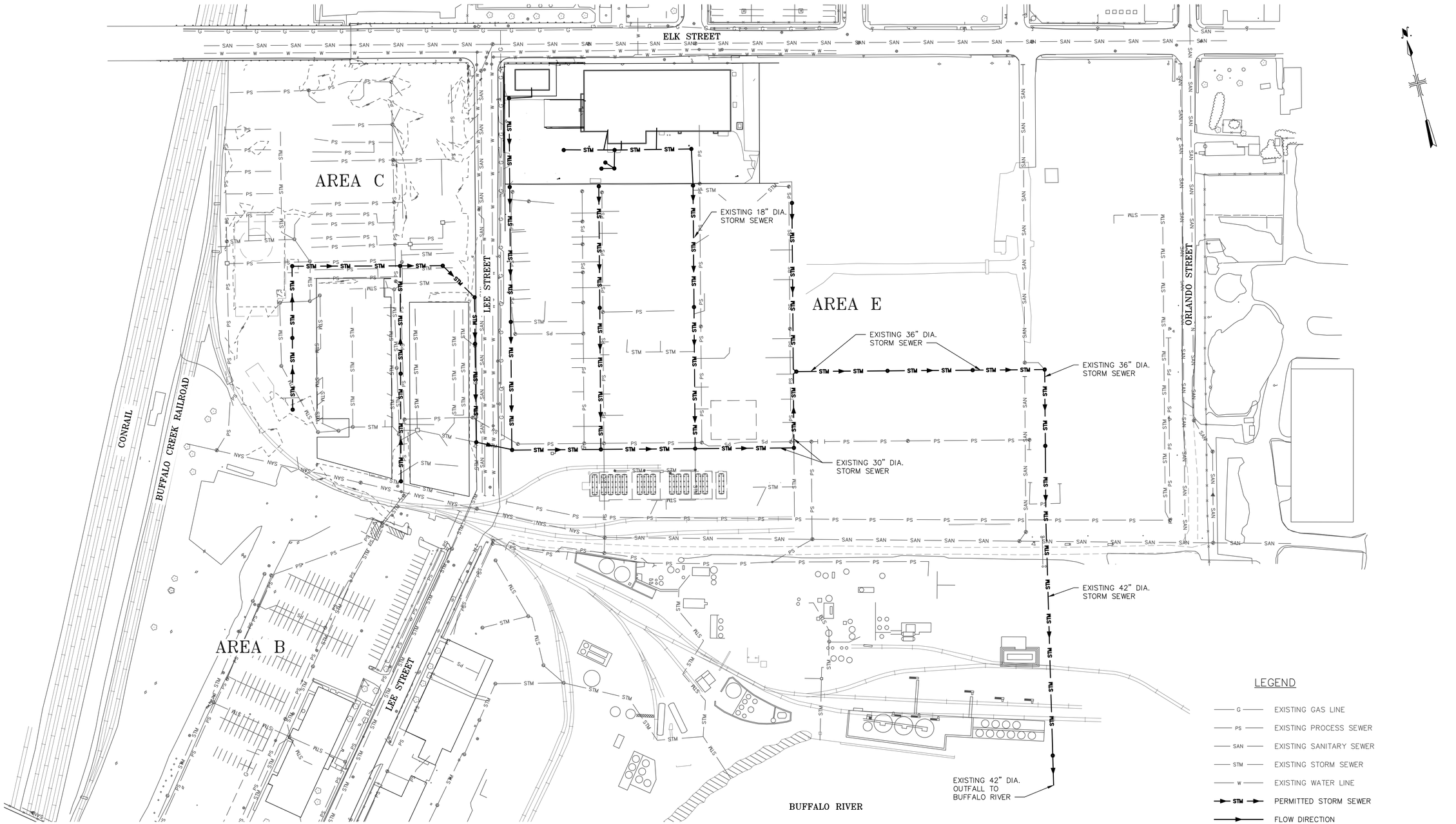
INDEX OF DRAWINGS	
TITLE	
SHEET NO.	GENERAL
--	COVER SHEET AND INDEX OF DRAWINGS
G1	EXISTING SITE PLAN
G2	PARTIAL SITE PLAN AND PROFILES
G3	DETAILS – I

APPROVED _____

ONTARIO SPECIALTY CONTRACTING, INC.

OSC PROJECT# 0913

ONTARIO SPECIALTY CONTRACTING, INC.
333 GANSON STREET
BUFFALO, NEW YORK 14203



PLAN
SCALE: 1" = 80'

40 0 40 80
SCALE: 1" = 80'

OSC

REVISIONS			
NO.	BY	DATE	REMARKS

DES
DWN
CKD

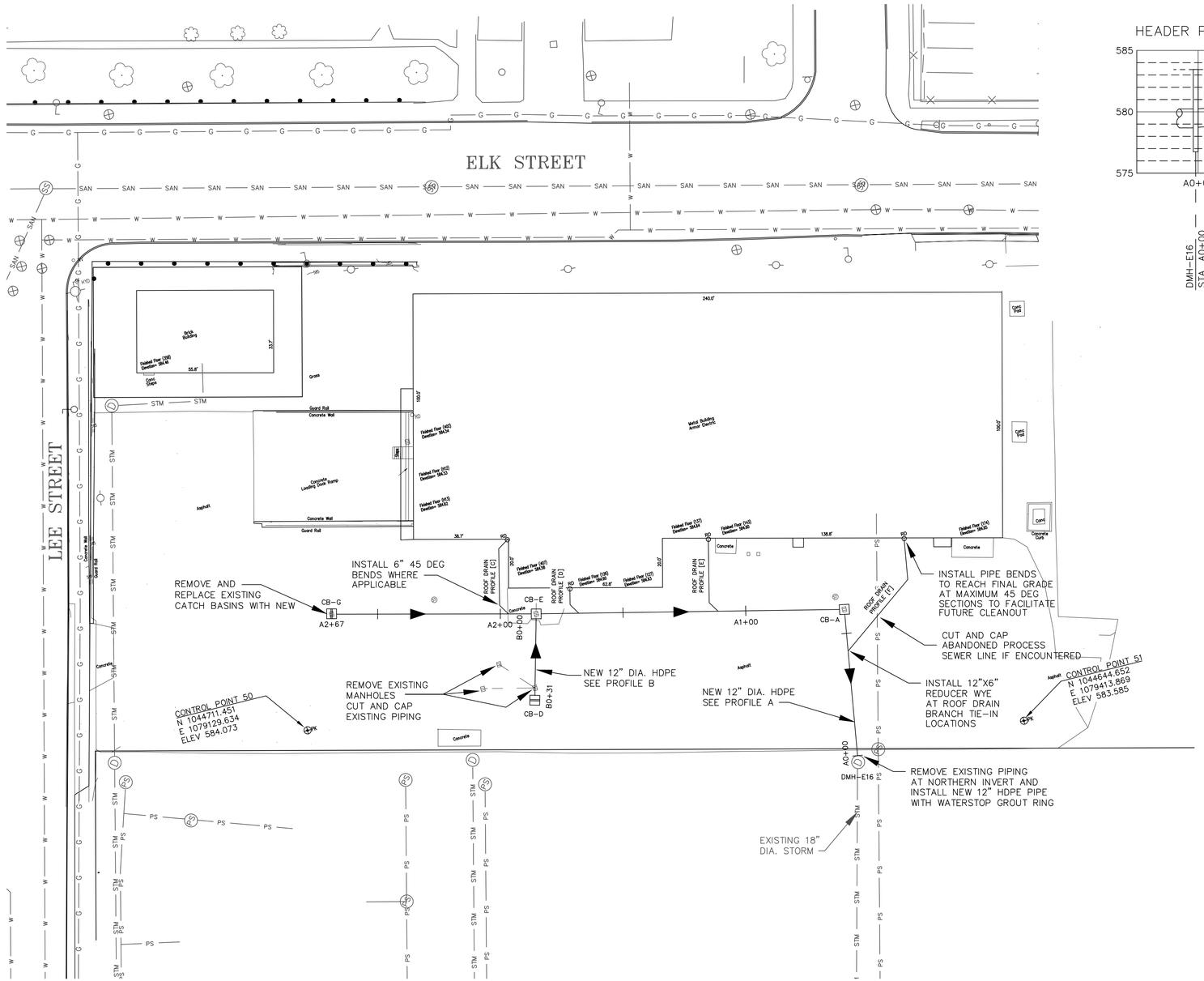
ONTARIO SPECIALTY CONTRACTORS
HONEYWELL/ FORMER BUFFALO COLOR FACILITY
BUFFALO, NEW YORK

ARMOR ELECTRIC DRAINAGE DESIGN

EXISTING SITE PLAN

SCALE: 1" = 80'

ONTARIO SPECIALTY CONTRACTING INC.
DATE NOVEMBER 2012
G SHEET 1 OF 3
CAD REF. NO. 007



PARTIAL SITE PLAN

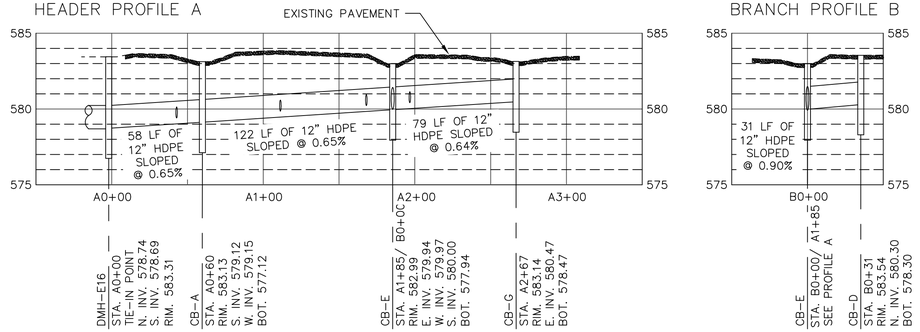
SCALE: 1" = 25'

LEGEND

G — EXISTING GAS LINE	W — EXISTING WATER LINE
PS — EXISTING PROCESS SEWER	NEW CATCH BASIN
SAN — EXISTING SANITARY SEWER	NEW MANHOLE
STM — EXISTING STORM SEWER	NEW STORM SEWER
FLOW DIRECTION	

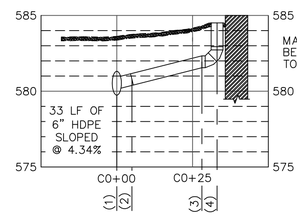
NOTES:

1. EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THE ELEVATIONS ARE ASSUMED. OWNER/ CONTRACTOR SHALL FIELD VERIFY ACTUAL ELEVATIONS PRIOR TO STARTING WORK.



HEADER PROFILE

HORIZ. SCALE: 1" = 50'
VERT. SCALE : 1" = 5'

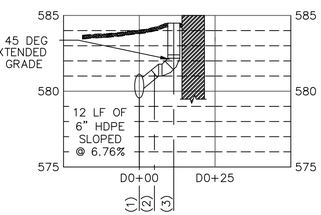


(1) REDUCER 45 DEG WYE
STA. C0+00/ A1+97
TIE IN CL. ELV. 580.53

(2) 45 DEG BEND
STA. C0+05
CL. ELV. 580.79

(3) 45 DEG BEND
STA. C0+28
CL. ELV. 581.98

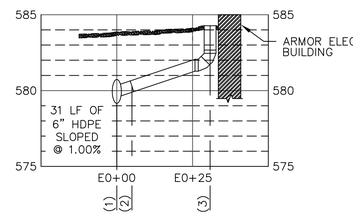
(4) ROOF DRAIN
STA. C0+33
GND. ELV. 584.51



(1) REDUCER 45 DEG WYE
STA. D0+00/ A1+68
TIE IN CL. ELV. 580.34

(2) 45 DEG BEND
STA. D0+05
CL. ELV. 581.16

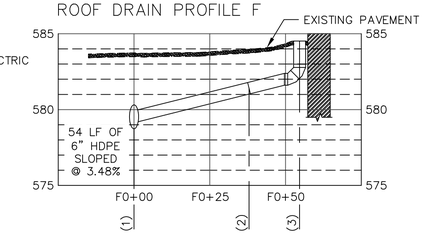
(3) ROOF DRAIN
STA. D0+11
GND. ELV. 584.49



(1) REDUCER 45 DEG WYE
STA. E0+00/ A1+11
TIE IN CL. ELV. 579.97

(2) 45 DEG BEND
STA. E0+05
CL. ELV. 580.28

(3) ROOF DRAIN
STA. E0+31
GND. ELV. 584.28



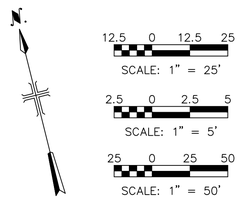
(1) REDUCER 45 DEG WYE
STA. F0+00/ A0+43
TIE IN CL. ELV. 579.52

(2) 45 DEG BEND
STA. F0+05
CL. ELV. 581.41

(3) ROOF DRAIN
STA. F0+55
GND. ELV. 584.52

ROOF DRAINAGE PROFILES

HORIZ. SCALE: 1" = 25'
VERT. SCALE : 1" = 5'



OSC

REVISIONS			
NO.	BY	DATE	REMARKS

DES
DWN
CKD

ONTARIO SPECIALTY CONTRACTORS
HONEYWELL/ FORMER BUFFALO COLOR FACILITY
BUFFALO, NEW YORK

ARMOR ELECTRIC DRAINAGE DESIGN

PARTIAL SITE PLAN AND PROFILES

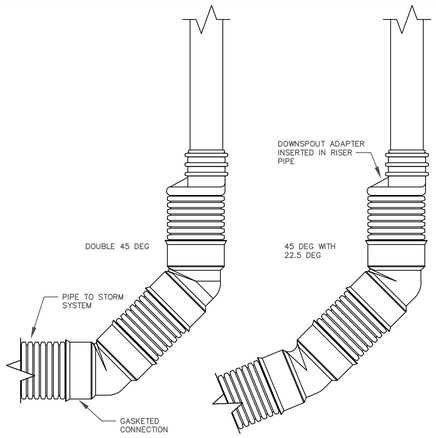
SCALE: AS NOTED

ONTARIO SPECIALTY CONTRACTING INC.

DATE NOVEMBER 2012

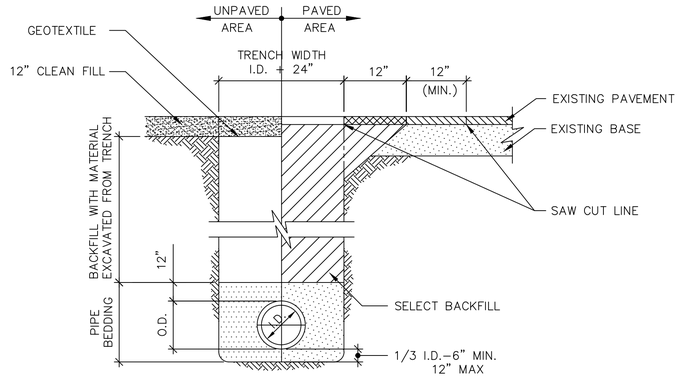
G SHEET 2 OF 3

CAD REF. NO. 007



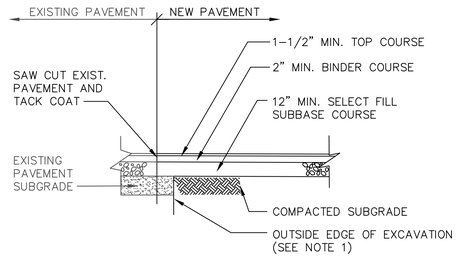
ROOF DRAIN ASSEMBLY

NOT TO SCALE



UNPAVED AND PAVED TRENCH DETAIL

NOT TO SCALE

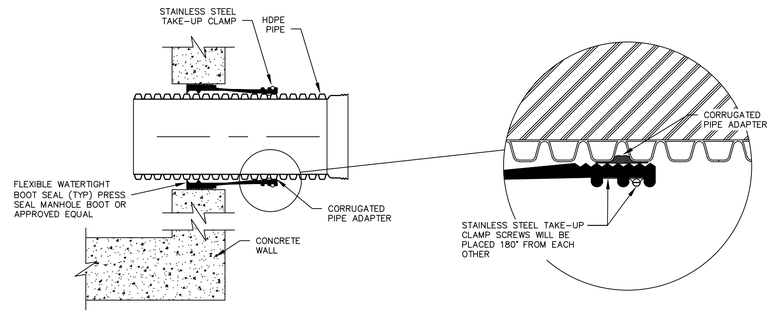


ASPHALT PAVEMENT REPLACMENT DETAIL

NOT TO SCALE

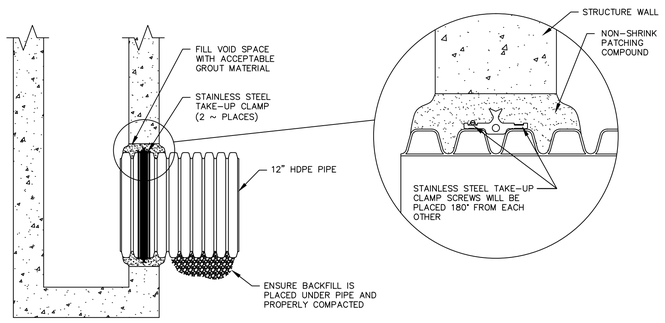
NOTES:

1. PRIOR TO PAVING OWNER/CONTRACTOR SHALL BACK CUT AND REMOVE EXISTING PAVEMENT A MINIMUM OF 1' FROM OUTSIDE EDGE OF EXCAVATION.



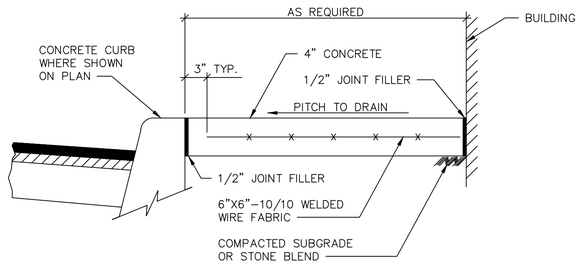
WATERTIGHT BOOT SEAL DETAIL

NOT TO SCALE



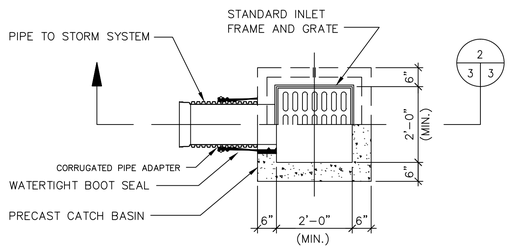
DMH–E16 WATERSTOP MANHOLE CONNECTION

NOT TO SCALE

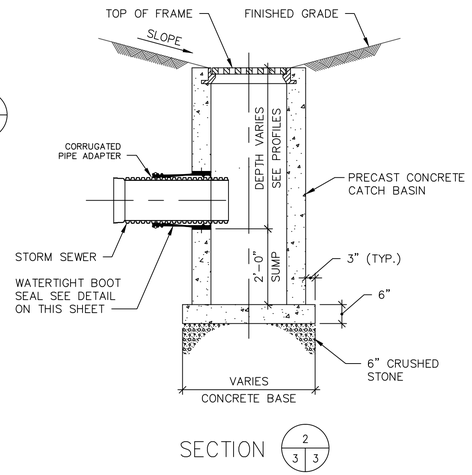


CONCRETE SIDEWALK REPLACMENT DETAIL

NOT TO SCALE



PLAN



SECTION 2 / 3 3

TYPICAL CATCH BASIN DETAIL

NOT TO SCALE

OSC

REVISIONS			
NO.	BY	DATE	REMARKS

DES

DWN

CKD

ONTARIO SPECIALTY CONTRACTORS
HONEYWELL/ FORMER BUFFALO COLOR FACILITY
BUFFALO, NEW YORK

ARMOR ELECTRIC DRAINAGE DESIGN

DETAILS

SCALE: AS NOTED

ONTARIO SPECIALTY CONTRACTING INC.

DATE NOVEMBER 2012

G SHEET 3 OF 3

CAD REF. NO. 007