### **ACT 381 COMBINED BROWNFIELD PLAN**

### TO CONDUCT ELIGIBLE DEQ RESPONSE AND/OR MSF NON-ENVIRONMENTAL ACTIVITIES

### GENERAL TRUCKING NORTHWEST CORNER OF EAST HAMLIN ROAD AND DEQUINDRE ROAD Rochester Hills Brownfield Redevelopment Authority

### July 16, 2014

Approved by the Rochester Hills Brownfield Redevelopment Authority June 19, 2014

Prepared on Behalf of:

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### TABLE OF CONTENTS

1.0	INTRODUCTION1
1.1	Proposed Redevelopment and Future Use1
1 1 1	Eligible Property Information11.2.1Location/Address - Includes legal description(s) as shown on deed11.2.2Current Ownership21.2.3Proposed Future Ownership21.2.4Delinquent Taxes, Interest, and Penalties21.2.5Existing and Proposed Future Zoning for Each Eligible Property2
1.3	Historical & Previous Use and Ownership of Each Eligible Property
1.4	Current Use of Each Eligible Property2
1.5	5 Summary of Liability
1.6	
1.7	Summary of Environmental/Brownfield Conditions7
1.8	Summary of Functionally Obsolete Blighted and/or Historic Conditions
1.9	9 Summary of Historic Qualities12
2.0	DESCRIPTION OF COSTS & SCOPE OF WORK12
2	2.1.1Baseline Environmental Assessment.122.1.2Due Care.122.1.3Additional Response Activities.132.1.4Develop/Prepare Brownfield Plan and Work Plan.132MSF Eligible Activities.13
3.0	TAX INCREMENT REVENUE ANALYSIS13
3.1	Estimate of Captured Taxable Value and Tax Increment Revenues
3.2	Method of Financing and Description of Advances Made by the Municipality14
3.3	Maximum Amount of Note or Bonded Indebtedness14
3.4	Duration of Brownfield Plan14
3.5	Estimated Impact of Tax Increment Financing on Revenues of Taxing Jurisdictions14
4.0 ENVI	INFORMATION REQUIRED BY SECTION 15(15) OF THE STATUTE FOR NON- RONMENTAL ACTIVITIES (required for work plans submitted for MSF consideration) 15
4.1 elig	How are the individual activities included in the work plan sufficient to complete the gible activity?16
4.2	How is each individual activity included in the work plan required to complete the

PM Environmental, Inc. Table of Contents Page i

4.3	How were the costs for each individual activity determined to be reasonable?
4.4	What is the overall benefit to the public?
4.5	To what extent will vacant buildings be reused and redevelopment of blighted property ur?
Curi	rently, there are no buildings on the property; therefore, this section is not applicable 16
4.6	How many and what type of jobs will be created by the project?
4.7	Is the eligible property in an area of high unemployment?
4.8 eligi	What is the level and extent of contamination alleviated by or in connection with the ible activities?
4.9	What is the level of private sector contribution to the project?
	If a greenfield site was considered, what is the cost gap between the site and a similar enfield site? Alternatively, what extraordinary costs for this site are related to it being a wnfield?
4.11 loca	If the developer or projected occupant of the new development is moving from another tion in this state, will the move create a brownfield?17
4.12 whic	Provide project pro forma, financial statements or other acceptable documentation, ch demonstrates that the project is financially and economically sound
4.13 indir	3 Identify the amount of all other anticipated state or local incentives that directly or rectly benefit this project
4.14 plan	
5.0	SCHEDULE OF ACTIVITIES
5.1	Schedule
6.0	ESTIMATED COSTS
<b>6</b> .1	Summary of Total Project Costs
6.2	Sources and Uses of Incentives and Funds
6. 6.	Summary of Relocation Actions183.1 Estimates of Residents and Displacement of Individuals/Families183.2 Plan for Relocation of Displaced Persons183.3 Provisions for Relocation Costs183.4 Strategy for Compliance with Michigan's Relocation Assistance Law18
6.4	Description of Proposed Use of Local Site Remediation Revolving Fund
6.5	Other Material that the Authority or Governing Body Considers Pertinent

### EXHIBITS

### Figures

- Figure 1 Scaled Property Location Map
- Figure 2 Eligibility Property Map(s)
- Figure 3 Sampling Location Map
- Figure 4 Map of Known Extent of Vertical & Horizontal Contamination
- Figure 5 Color Site Photographs
- Figure 6 Redevelopment Project Elevation(s)
- Figure 7 Engineering Site Plan(s)

### Tables

- Table 1
   Summary of Costs for Eligible Activities
- Table 2
   Tax Capture/Reimbursement Schedule

### Attachments

- Attachment A Resolution(s) Approving Combined Brownfield Plan
- Attachment B Development Reimbursement Agreement
- Attachment C Report on Geotechnical Investigation
- Attachment D Project Bids
- Attachment E Project Pro-Forma and Financial Information
- Attachment F Preliminary Project Schedule

### 1.0 INTRODUCTION

### 1.1 **Proposed Redevelopment and Future Use**

The proposed project consists of constructing an industrial development at the northwest corner of Hamlin Road and Dequindre Road in Rochester Hills, Oakland County, Michigan. General Trucking, Inc. intends to redevelop the property into commercial use for warehousing and truck/trailer storage. Redevelopment plans include the construction of a 40,000 square foot building, which will be surrounded by landscaping. The proposed building will be a single-story slab-on-grade steel framed structure. New access drives, parking lots, and truck parking areas will also be constructed in conjunction with the project. Also, a detention pond will be constructed within the north end of the subject property.

It is anticipated that 14 office positions and 70 drivers will be retained from the current location and an additional 3-5 new office positions and 10 new drivers will be added following redevelopment.

Anticipated total cost and private investment for this project is estimated around approximately \$4.0 Million, including land acquisition.

### 1.2 Eligible Property Information

The property comprising the eligible property consists of one parcel, which is currently being split from a larger parent parcel. The property is considered "eligible property" as defined by Act 381, Section 2 because (a) the Property was previously utilized or is currently utilized for a commercial purpose; (b) it is located within the City of Rochester Hills, a qualified local governmental unit under Act 381, as amended; and (c) the Property is determined to be a "facility" as further described in this plan.

Address	Northwest corner of East Hamlin Road and Dequindre Road, Rochester Hills, Oakland County, Michigan
Parcel ID	70-15-24-401-041
Size	One parcel containing approximately 10.92 acres (parent parcel is approximately 18.42 acres)
Legal Description	Proposed Parcel B: Part of the Southeast ¼ of Section 24, Town 3 North, Range 11 East, City of Rochester Hills, Oakland County, Michigan, described as: Commencing at the East ¼ corner of said Section 24; thence along the East line of said Section 24 South 00 degrees 09 minutes 04 seconds West 1451.48 feet to the point of beginning: thence continuing along said East line South 00 degrees 09 minutes 04 seconds West 1208.62 feet to the Southeast corner of said Section 24; thence along the South line of said Section 24, North 89 degrees 34 minutes 00 sections West 405.15 feet; thence North 00 degrees 34 minutes 00 seconds East 1208.62 feet; thence South 89 degrees 34 minutes 00 seconds East 405.15 feet to the point of beginning. A proposed parcel map is provided in Figure 2.

1.2.1	Location/Address - Includes legal description(s) as shown on deed	
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### 1.2.2 Current Ownership

The subject property is currently owned by Nichols Investment Properties, LLC; 490 Martell Drive, Bloomfield Hills, MI 48304. Nichols Investment Properties, LLC purchased the property in February 2002.

Contact Person: Jim Nichols Phone: 248-703-4354 Email: janichols@sprynet.com

### 1.2.3 Proposed Future Ownership

General Trucking, Inc., located at 24121 Mound Road, Warren, Michigan 48091, intends to purchase the subject property for redevelopment into a warehouse with truck/trailer storage.

Contact Person: Emil Jakupovic Phone: 586-757-4255 Email: <u>emil@generaltrucking.net</u>

### **1.2.4** Delinquent Taxes, Interest, and Penalties

There are no delinquent taxes for the subject property as of the completion of this report.

### 1.2.5 Existing and Proposed Future Zoning for Each Eligible Property

The subject property is currently zoned I: Industrial. It is proposed that the zoning remain unchanged.

### 1.3 Historical & Previous Use and Ownership of Each Eligible Property

Original development of the subject property occurred prior to 1937 for agricultural purposes. Agricultural operations ceased between 1940 and 1949, and the northern portion of the property was converted into a gravel pit by 1949. The remainder of the property was utilized as a gravel pit until the 1960s. Landfill operations (Sandfill Landfill #2) began at the property in 1968, and continued until approximately 1977. A steel slag sand/clay engineered cap was reportedly placed on the property in 1977, and the property has been vacant land since closure of the landfill in 1977. The property has been owned by Nichols Investment Properties, LLC, since February 2002, and was formerly owned by the Advisory Firm prior to that time.

### 1.4 Current Use of Each Eligible Property

The property is currently vacant land.

### 1.5 Summary of Liability

Michigan Department of Environmental Quality (MDEQ) Solid Waste Division has no jurisdiction over the closed Sandfill Landfill #2, based on the age and closure of the former landfill. MDEQ Remediation and Redevelopment Division (RRD) will only require that due care obligations

associated with the former landfilling operations be complied with. No other obligations are required for a new owner of the Sandfill Landfill #2.

The United States Environmental Protection Agency (USEPA) Region V has no additional requirements for the former Sandfill Landfill #2. Since the generated waste is pre-1978 and no source was identified during investigation activities with concentrations greater than 50 parts per million (ppm), the PCB waste would not be regulated under Federal Toxic Substances Control Act (TSCA). Therefore, the subject property would not require TSCA closure for the PCB concentrations identified in the subsurface/landfilling waste.

### 1.6 Summary of Environmental Study Documents

PM Environmental, Inc. (PM) reviewed the following reports pertaining to previous environmental investigations completed at the subject property:

- Brownfield Redevelopment Assessment (BFRA) Report, February 26, 2001, MDEQ
- Baseline Environmental Assessment (BEA), January 13, 2003, Atwell-Hicks, Inc. (AHI)
- Phase II Environmental Site Assessment (ESA), September 16, 2013, PM
- Phase I ESA, July 26, 2013, PM
- Phase II ESA, September 16, 2013, PM
- Summary of Landfill Review, December 13, 2013, PM
- BEA, January 24, 2014, PM
- Documentation of Due Care Compliance (DDCC), January 24, 2014, PM

PM reviewed a BFRA Report completed for the subject property by the MDEQ in February 2001. The subsequent subsurface investigation assessed the former Sandfill Landfill #2, which includes the subject property and current north adjoining property. As part of the investigation, four surficial soil samples were taken from the current subject property, and four temporary monitoring wells were installed. Analytical results identified concentrations of metals in soil and groundwater samples above MDEQ Part 201 Residential and Nonresidential Drinking Water Protection (DWP) and Groundwater Surface Water Interface Protection (GSIP) cleanup criteria. Analytical results also identified concentrations of metals and lindane in groundwater samples above MDEQ Part 201 Residential Drinking Water (DW) and/or Groundwater Surface Water Interface (GSI) cleanup criteria. Lastly, the report documents that a steel slag/clay cap was placed on the property in 1977 during closure of the landfill. The structural integrity of the landfill cap is unknown.

PM also reviewed a January 2003 BEA report completed by AHI. The BEA documents a Phase II ESA was completed by Clayton Environmental Consultants in October 1998 at the subject property. A copy of the Phase II ESA was not available for review as part of this site investigation. However, the BEA report documented that six soil borings were advanced by Clayton on the current subject property (the report also assessed the current north adjoining property). AHI reported that select soil and groundwater samples were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and/or Michigan 10 Metals. Analytical results reportedly identified soil and groundwater contamination above MDEQ Part 201 Residential cleanup criteria.

The BEA report also documented a Phase II ESA was completed by AHI in December 2002, which included four additional soil borings, and documented two methane monitoring wells were installed in the southeastern portion of the subject property. Select soil samples were analyzed for VOCs, SVOCs, PCBs, and/or Michigan 10 Metals. Analytical data tables were not included in the report provided to PM. However, the BEA report indicated that concentrations of VOCs were identified on the subject property above MDEQ Part 201 Residential and Nonresidential DW and DWP cleanup criteria. Various concentrations of metals were also identified in soil samples above Part 201 Residential and Nonresidential DWP and SDC cleanup criteria. Additionally, analytical results identified concentrations of PCBs in a soil sample (SB-3) in the central portion of the subject property above Part 201 Residential and Nonresidential SDC cleanup criteria.

Lastly, concentrations of methane were identified in two monitoring wells located in the southeastern portion of the property. Concentrations of methane in one of the monitoring wells were identified above MDEQ acceptable soil gas concentrations. Additionally, methane concentrations were identified in monitoring wells approximately 100 feet north of the subject property significantly above MDEQ acceptable soil gas concentrations.

Review of previous site investigations completed at the property between 1998 and 2002 documents that soil and groundwater contamination is present above current MDEQ Part 201 Residential and Nonresidential cleanup criteria. Analytical results from previous subsurface sampling activities identified concentrations of VOCs, lindane, PCBs, and metals above MDEQ Part 201 Residential and Nonresidential DWP and SDC cleanup criteria.

PM performed a Phase I ESA for the subject property, dated July 26, 2013, in conformance with the scope and limitations of ASTM Practice E 1527-05 (i.e., the 'ASTM Standard').

The following onsite RECs were identified:

- The subject property operated as the Sandfill Landfill #2 from 1968 until 1977. Review
  of previous site investigations of former landfill operations completed at the property
  between 1998 and 2002 document that soil and groundwater contamination is present
  above current MDEQ Part 201 Residential and Nonresidential Generic Cleanup Criteria.
  Analytical results of previous subsurface sampling identified concentrations of VOCs,
  PCBs, and metals above MDEQ Part 201 DWP and SDC cleanup criteria. Based upon
  these analytical results, the subject property would be classified as a "facility," as defined
  by Part 201 of P.A. 451 of the Michigan Natural Resources Environmental Protection Act
  (NREPA), as amended. The purchaser would be eligible to complete a BEA for the
  subject property.
- Review of previous site investigations of former landfill operations documents the horizontal extent of PCB contamination on the subject property has not been adequately defined. Previous subsurface investigations documented concentrations of PCBs in a soil sample above MDEQ Part 201 Nonresidential SDC cleanup criteria. The potential exists for additional PCB impact to be present on the subject property. The PCB impact previously identified at the subject property and any potential additional impact would also likely be regulated under the Federal TSCA.

• Review of previous site investigations of former landfill operations documents adequate sampling has not been completed to delineate a methane plume identified on the subject property and north adjoining property. Analytical results of soil gas sampling conducted in 2002 identified concentrations of methane in the southeastern portion of the subject property above MDEQ acceptable soil gas concentrations. Additionally, methane concentrations were identified in monitoring wells north of the subject property significantly above MDEQ acceptable soil gas concentrations. The potential exists for elevated concentrations of methane to be present in areas of the subject property not previously assessed above current MDEQ acceptable soil gas concentrations.

The following adjoining and/or nearby RECs were identified:

- The west adjoining property, which is known as the former J&L Landfill, has been identified as a National Priority List (i.e. Superfund) site, a Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) site, and a Brownfield site. Review of previous site investigations for this property documented concentrations of VOCs and metals above MDEQ Part 201 Residential cleanup criteria. Based on documented regional groundwater flow to the northeast towards the subject property, the potential exists for contamination from this former landfill to have migrated onto the subject property.
- A nearby property, historically known as the former Sandfill Landfill No. 1 site located approximately 250 feet west of the subject property, is identified as a State Hazardous Waste Site (SHWS), CERCLIS site, and a BEA site. PM reviewed MDEQ file information for this property, which documented soil contamination throughout the property, including various concentrations of gasoline range VOCs, polynuclear aromatic hydrocarbons (PNAs), and/or metals above MDEQ Part 201 Residential and Nonresidential DWP and/or Groundwater to Surface Water Interface Protection (GSIP) cleanup criteria. Additionally, groundwater analytical results identified gasoline range VOCs, PNAS, and metals above MDEQ Part 201 Residential DW and/or GSI cleanup criteria. Based on the documented contamination, the close proximity to the subject property (approximately 250 feet), and documented regional groundwater flow to the east and/or northeast (towards the subject property), the potential exists for contamination from this property to have migrated onto the subject property.

On August 28-30, 2013, PM completed a Phase II ESA scope of work consisting of advancing 16 soil borings (SB-1 through SB-16), installing 10 temporary monitoring wells ((TMW-1,TMW-2, TMW-3, TMW-8, and TMW-10 through TMW-15), installing 13 soil gas points (SG-1, SG-2, SG-3, SG-7 through SG-16), and collecting soil, groundwater, and soil gas samples for laboratory analysis to investigate the RECs identified in the Phase I ESA prepared by PM. A BEA was completed in January 2014 by PM, which documented exceedances of the Part 201 Residential and Nonresidential DWP/DW and GSIP/GSI and Residential SDC cleanup criteria in soil and groundwater samples collected from the subject property by PM, the subject property is considered a <u>facility</u> under Part 201 of P.A. 451, as amended, and the rules promulgated thereunder. In addition, methane concentrations were identified at the subject property in soil gas samples above screening levels.

On December 10, 2013, PM completed a Summary of Landfill Review for the proposed development. PM contacted the MDEQ and USEPA to discuss further obligations of an owner purchasing and redeveloping a former landfill. The subject property is part of the former Sandfill Landfill #2, which was closed in 1977 per Act 87.

The MDEQ Solid Waste Division has no jurisdiction over the closed Sandfill Landfill #2, based on the age and closure of the former landfill. The only items that the Solid Waste Division will require during ownership/redevelopment activities are the following:

- Impacted material removed from the subject property must be disposed of at a current Type II landfill or higher under appropriate waste manifest; and/or
- Impacted material/waste is being relocated to other portions of the property, a Consent Order must be granted through the Solid Waste Division.

MDEQ RRD will only require due care obligations. No other obligations are required for a new owner of the Sandfill Landfill #2. Therefore, a BEA for the purchasing entity, which provided liability protection from the existing contamination was prepared. In addition, a DDCC was prepared outlining the following due care obligations/response activities:

- Any subsurface construction will be planned and implemented in a manner as to not increase offsite migration along subsurface utility, sewer, or structure corridors (i.e., lining of utilities, installing cut-off walls at the property boundaries);
- Written notices will be provided to easement holders of record, utility franchise holders of record, and the owners and/or operators of all public utilities that serve the subject property regarding the presence of soil, groundwater, and soil gas contamination exceeding the Part 201 Nonresidential Cleanup Criteria prior to construction activities;
- Monitor methane concentrations during construction activities and excavate soils in accordance with DEQ guidelines;
- Install a methane mitigation system during construction activities for the proposed subject building that would consists of a vapor barrier under the proposed building foundation with passive venting;
- Install methane monitoring devices within the subject building following construction;
- Maintain at least 6-inches of cover (i.e., asphalt, concrete, pond liner, grass, gravel) throughout the property; and
- Do not install water wells on the property for any purpose.

In addition, USEPA Region V has no additional requirements for the former Sandfill Landfill #2. Since the generated waste is pre-1978 and no source was identified during investigation activities with concentrations greater than 50 parts per million (ppm), the PCB waste would not be regulated under TSCA. Therefore, the subject property would not require TSCA closure for the PCB concentrations identified in the subsurface.

The MDEQ and EPA will not require additional obligations to owners of the Former Sandfill Landfill #2 beyond due care/continuing obligations onsite. There are no requirements for offsite monitoring or no specific landfill concerns/requirements to a prospective owner of the Sandfill Landfill #2.

### **1.7** Summary of Environmental/Brownfield Conditions

As previously stated a BEA, completed in January 2014 by PM, report documented exceedances of the Part 201 Residential and Nonresidential DWP/DW and GSIP/GSI and Residential SDC cleanup criteria in soil and groundwater samples collected from the subject property by PM, the subject property is considered a <u>facility</u> under Part 201 of P.A. 451, as amended, and the rules promulgated thereunder. In addition, methane concentrations were identified at the subject property in soil gas samples above screening levels.

Soil samples were collected for laboratory analysis based on the highest photoionization detector (PID) field screening measurements, noticeable evidence of contamination (i.e., discoloration or odors), or from the likely source depths. Nine soil samples and ten groundwater sample were submitted for laboratory analysis of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) or polynuclear aromatic hydrocarbons (PNAs), polychlorinated biphenyls (PCBs), and Michigan 10 metals (arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc), or some combination thereof. Thirteen soil gas samples were submitted for laboratory analysis of methane and/or VOCs.

Location (Total Depth in feet bgs)	Sample Depth (feet bgs)	Analysis	Objectives	Soil Exceedance	Groundwater Exceedance	
SB/TMW-1 (20.0)	Groundwater 4.73-9.73	VOCs, SVOCs, PCBs, MI 10 Metals	Assess former west adjoining landfills.	Not Applicable	Res and Nonres DW and GSI: Various VOCs and SVOCs/PNAs	
	<b>Soil</b> 3.0-4.0	VOCs,	Assess	Res and Nonres DWP: arsenic; GSIP:	Res and Nonres DW and GSI:	
SB/TMW-2 (20.0)	Groundwater 7.42-12.42	SVOCs, PCBs, MI 10 Metals	former west adjoining landfills.	ethyl benzene, arsenic, copper, and selenium; Res SDC: arsenic	Various VOCs and SVOCs/PNAs, and barium	
SB/TMW-3 (20.0)	Groundwater 8.61-13.61	VOCs, SVOCs, PCBs, MI 10 Metals	Assess former west adjoining landfills.	Not Applicable	Res and Nonres DW and GSI: Various VOCs and SVOCs/PNAs, and barium	
SB-4 (20.0)	<b>Soil</b> 4.0-5.0	PCBs	Further assess PCBs previously identified	NONE	Not Applicable	
SB-5 (20.0)	<b>Soil</b> 5.0-6.0	PCBs	Further assess PCBs previously identified	NONE	Not Applicable	

Summary of Soil and Groundwater Exceedences

Location (Total Depth in feet bgs)	Sample Depth (feet bgs)	Analysis	Objectives	Soil Exceedance	Groundwater Exceedance		
SB-6 (20.0)	<b>Soil</b> 6.0-7.0	PCBs	Further assess PCBs previously identified	NONE	Not Applicable		
SB-7 (20.0)	<b>Soil</b> 5.0-6.0	PCBs	Further assess PCBs previously identified	NONE	Not Applicable		
SB/TMW-8 (20.0)	Groundwater 3.61-8.61	VOCs, PNAs, PCBs, MI 10 Metals	Assess former landfilling operations.	NONE	Res and Nonres DW and GSI: Various VOCs and SVOCs/PNAs		
SB-9 (20.0)	<b>Soil</b> 6.0-7.0	VOCs, PNAs, PCBs, MI 10 Metals	Assess former landfilling operations.	Res and Nonres DWP: arsenic; GSIP: chlorobenzene and arsenic	Not Applicable		
	Soil 9.0-10.0 Groundwater 7.83-12.83			Res and Nonres DWP: various VOCs			
SB/TMW-10 (25.0)		Groundwater	W-10 .0) <b>Groundwater</b> 7.83-12.83 PCBs, MI 10 Metals	PCBs, MI 10	s, and former	and arsenic; GSIP: various VOCs, PNAs, arsenic and copper; Res SDC: arsenic TSCA: PCBs	Res and Nonres DW and GSI: Various VOCs and SVOCs/PNAs, and barium
	<b>Soil</b> 6.0-7.0	VOCs,	Assess	Res and Nonres DWP:	Res and Nonres		
SB/TMW-11 (20.0)	Groundwater 6.75-11.75	PNAs, PCBs, MI 10 Metals	former landfilling operations.	various VOCs; GSIP: various VOCs, PNAs, and selenium	DW and GSI: Various VOCs and SVOCs/PNAs		
SB/TMW-12 (20.0)	Groundwater 7.91-12.91	VOCs, PNAs, PCBs, MI 10 Metals	Assess former landfilling operations.	Not Applicable	Res and Nonres DW and GSI: Various VOCs and SVOCs/PNAs, and barium		
SB/TMW-13 20.0)	Groundwater 8.81-13.81	VOCs, PNAs, PCBs, MI 10 Metals	Assess former landfilling operations.	Not Applicable	Res and Nonres DW and GSI: Various VOCs and SVOCs/PNAs; GSI: chromium		
SB/TMW-14 (20.0)	Groundwater 8.13-13.13	VOCs, PNAs, PCBs, MI 10 Metals	Assess former landfilling operations.	Not Applicable	Res and Nonres DW and GSI: Various VOCs and SVOCs/PNAs, and barium		

Location (Total Depth in feet bgs)	Sample Depth (feet bgs)	Analysis	Objectives	Soil Exceedance	Groundwater Exceedance
SB/TMW-15 (25.0)	<b>Groundwater</b> 9.45-14.45	VOCs, PNAs, PCBs, MI 10 Metals	Assess former landfilling operations.	Not Applicable	Res and Nonres DW and GSI: Various VOCs and SVOCs/PNAs; GSI: chromium
SB-16 (20.0)	<b>Soil</b> 11.0-12.0	VOCs, PNAs, PCBs, MI 10 Metals	Assess former landfilling operations.	NONE	Not Applicable

Res = Residential; Nonres = Nonresidential

### The soil analytical results are summarized below.

Various concentrations of VOCs were detected in the soil samples collected at SB-2, SB-9, SB-10, and SB-11 above Part 201 Residential and Nonresidential DWP and GSIP cleanup criteria. No concentrations of VOCs were identified in the remaining soil sample collected at SB-16 above laboratory method detection limits (MDLs).

Concentrations of 2-methylnaphthalene, naphthalene and phenanthrene were detected in the soil sample collected at SB-10 above Part 201 GSIP cleanup criteria. A concentration of naphthalene was detected in the soil sample collected at SB-11 above Part 201 GSIP cleanup criteria. A concentration of pyrene was detected in the soil sample collected at SB-12, below the most restrictive Part 201 Residential cleanup criteria. No concentrations of PNAs were identified in the remaining soil samples collected at SB-9 and SB-16 above laboratory MDLs.

A concentration of PCBs was detected in the soil sample collected from SB-10 below the most restrictive Part 201 Residential cleanup criteria, but above TSCA standards. Various concentrations of PCBs were detected in soil samples SB-2, SB-6, SB-7, and SB-11 below the most restrictive Part 201 Residential cleanup criteria and TSCA standards. No concentrations of PCBs were detected in the remaining four soil samples above laboratory MDLs.

However, USEPA Region V has no additional requirements for the former Sandfill Landfill #2. Since the generated waste is pre-1978 and no source was identified during investigation activities with concentrations greater than 50 ppm, the PCB waste would not regulated under Federal TSCA. Therefore, the subject property would not require TSCA closure for the PCB concentrations identified in the subsurface/landfilling waste.

Concentrations of arsenic were detected in the soil samples collected at SB-2 and SB-10 above Part 201 Residential SDC cleanup criteria. Concentrations of arsenic were detected in the soil samples collected at SB-2, SB-9 and SB-10 above Part 201 Residential and Nonresidential DWP and GSIP cleanup criteria. Concentrations of copper were detected in soil samples collected at SB-2 and SB-10 and concentrations of selenium were detected in the soil samples collected at SB-2 and SB-11 above Part 201 Residential GSIP cleanup criteria. Concentrations of the remaining metals were detected below laboratory MDLs, Statewide Default Background Levels (SDBLs), or the most restrictive Part 201 Residential cleanup criteria. Previous investigations conducted between October 1999 and January 2003 consisted of installing 21 soil borings/temporary monitoring wells and collecting soil, groundwater, and soil gas samples for laboratory analysis. The analytical results detected VOCs and metals in soil samples above Part 201 Residential and Nonresidential DWP and GSIP cleanup criteria throughout the property. Arsenic and lead was detected above Part 201 Residential SDC cleanup criteria throughout the property. And PCBs were detected in soil sample SB-3 located in the central portion of the property above Part 201 Residential SDC cleanup criteria and TSCA levels.

Based on the historical use and size of the subject property, other areas of impact may be present that was not assessed by PM and others.

### The groundwater analytical results are summarized below.

Various concentrations of VOCs were detected in each of the groundwater samples collected at the subject property above Part 201 Residential and Nonresidential DW and GSI cleanup criteria.

A concentration of bis(2-ethylhexyl)phthalate was detected in the groundwater samples collected at TMW-1 and TMW-3 above Part 201 Residential and Nonresidential DW cleanup criteria. Various concentrations of PNAs were detected in the groundwater samples collected at the subject property above Part 201 GSI cleanup criteria, with the exception of TMW-14.

No concentrations of PCBs were detected in any of the groundwater samples collected from the subject property above laboratory MDLs.

Concentrations of barium were detected in the groundwater samples collected at TMW-2, TMW-3, TMW-10, TMW-12, and TMW-14 above Part 201 Residential and Nonresidential DW and GSI cleanup criteria. Concentrations of chromium were detected in the groundwater samples collected at TMW-13 and TMW-15 above Part 201 GSI cleanup criteria. Concentrations of the remaining metals were detected below laboratory MDLs or the most restrictive Part 201 Residential cleanup criteria.

Previous investigations conducted between October 1999 and January 2003 consisted of installing 21 soil borings/temporary monitoring wells and collecting soil, groundwater, and soil gas samples for laboratory analysis. The analytical results detected VOCs and metals in groundwater samples above Part 201 Residential and Nonresidential DW and GSI cleanup criteria throughout the property.

Based on the historical use and size of the subject property, other areas of impact may be present that was not assessed by PM and others.

Location	Sample Depth	Analysis	Objectives	Soil Gas Exceedance
SG-1	4.5-5.0	VOCs and Methane	Assess former west adjoining landfill.	NONE

### Summary of Soil Gas Exceedences

Location	Sample Depth	Analysis	Objectives	Soil Gas Exceedance
SG-2	9.0-9.5	VOCs and Methane	Assess former west adjoining landfill.	NONE
SG-3	9.5-10.0	VOCs and Methane	Assess former west adjoining landfill.	NONE
SG-7	7.0-7.5	Methane	Assess former landfilling operations on the site.	NONE
SG-8	5.0-5.5	Methane	Assess former landfilling operations on the site.	NONE
SG-9	5.0-5.5	Methane	Assess former landfilling operations on the site.	NONE
SG-10	8.5-9.0	Methane	Assess former landfilling operations on the site.	NONE
SG-11	9.5-10.0	Methane	Assess former landfilling operations on the site.	NONE
SG-12	9.0-9.5	Methane	Assess former landfilling operations on the site.	NONE
SG-13	11.0-11.5	Methane	Assess former landfilling operations on the site.	NONE
SG-14	9.0-9.5	Methane	Assess former landfilling operations on the site.	NONE
SG-15	10.75-11.25	Methane	Assess former landfilling operations on the site.	Methane
SG-16	11.5-12.0	Methane	Assess former landfilling operations on the site.	NONE

### The soil gas analytical results are summarized below.

A concentration of methane was detected in the soil gas sample collected at SG-15 above the soil gas screening levels, and the lower explosivity limit (LEL) and upper explosivity limit (UEL). No concentrations of methane were detected in the remaining 12 soil gas samples above laboratory MDLs. Soil boring SB/SG-15 is located along the northern property boundary, which is approximately 800 feet north of the proposed building. However, additional pockets of methane could be present in areas of the property that were not assessed.

Concentrations of various VOCs were identified in the three soil gas samples below Nonresidential Screening Levels.

Previous investigations conducted between October 1999 and January 2003 consisted of installing 21 soil borings/temporary monitoring wells and collecting soil, groundwater, and soil gas samples for laboratory analysis. The analytical results detected methane in the southeast portion of the property above vapor screening levels.

Based on the historical use and size of the subject property, other areas of impact may be present that was not assessed by PM and others.

BEA text and tables are provided in Attachment C of this work plan, figures of sampling locations are provided as Figure 3 and 4 of this work plan.

### **1.8** Summary of Functionally Obsolete Blighted and/or Historic Conditions

Not applicable to this project.

### 1.9 Summary of Historic Qualities

Not applicable to this project.

### 2.0 DESCRIPTION OF COSTS & SCOPE OF WORK

Tax Increment Financing revenues will be used to reimburse the costs of "eligible activities" (as defined by Section 2 of Act 381, as amended) as permitted under the Brownfield Redevelopment Financing Act that include: Baseline Environmental Site Assessments, Due Care Activities, Additional Response Activities, and preparation of a Brownfield Plan as described in this work plan. A complete listing of these activities is included in Table 1 of this work plan.

The following eligible activities and budgeted costs are intended as part of the development of the property and are to be financed solely by the developer. The Authority is not responsible for any cost of eligible activities and will incur no debt.

### 2.1 DEQ Eligible Activities

### 2.1.1 Baseline Environmental Assessment

Baseline Environmental Assessment activities include Phase I ESA, Phase II ESA, Baseline Environmental Assessment, and Documentation of Due Care Compliance at a total cost of \$26,300.

### 2.1.2 Due Care

Installation of a composite spray applied vapor intrusion barrier is proposed (Geo-Seal, Liquid Boot, or equivalent) during construction that is compatible with the soil, groundwater, and vapor impact identified equipped with an integrated passive venting system to prevent methane migration into the subject building. This will further prevent the potential flammability and explosion hazards from the known methane. Design and installation of a methane venting system, vapor barrier in the building, along with post-installation operation and maintenance and verification testing is estimated at approximately \$134,400.

Installation of an engineered barrier in the proposed detention basin is required to eliminate risk of exposure with impacted subsurface material at an estimated cost of \$10,000.

Utility corridors on the subject property may represent pathways for offsite contaminant migration. Therefore, a non-permeable lining may be installed within the concrete storm sewers to ensure that any contaminants from the overlying slag cap cannot penetrate storm waters that could be discharged offsite. Additionally, to prevent offsite migration of contamination along subsurface utility corridors, slurry walls (or cut-off walls) will be installed within the utility corridors at the property boundaries. This cost is estimated at \$20,000 for both the utility corridor lining and slurry wall installation.

### 2.1.3 Additional Response Activities

The work plan proposes transport and disposal of contaminated soils/slag at building footings and utility runs estimated at approximately \$7,655 TY and an estimated cost of \$200,280.

The existing fill soils due to the property's history as a landfill are not suitable for support of conventional shallow foundations, as documented in the Geotechnical Report provided in Attachment D of this work plan. Additionally, due to the estimated 6 foot slag cap, foundations cannot go below 5 feet to ensure the cap is not penetrated. Removal of the unsuitable fill soils is considered cost prohibitive based on the depths of the material. Therefore, helical piers and a grade beam system foundation are required to address the unstable fill on the property. A helical pier is a steel shaft, usually square with helices, similar to a large screw that provides a foundation support when challenging soil conditions prohibit a traditional foundation system. The Helical Pier and Grade Beam Foundation System will help prevent settling when the weights from trucks are applied. These activities are required to maintain the integrity of the existing cap as an additional response activity to meet due care. The anticipated cost for installation is approximately \$207,500. These are costs that would not be incurred on a greenfield property or a property not formerly utilized as a landfill.

A Geo-Grid system will also be installed on the property to reinforce soils and other materials to reduce the impact of settling caused by unstable fill (landfill waste) on the property at an estimated cost of \$56,250. Furthermore, excavations cannot extend below the estimated 5-6 feet slag cap requiring lift stations for the sanitary and storm utilities on the property at an estimated cost of \$20,000. These activities are required to maintain the integrity of the existing cap as an additional response activity to meet due care.

### 2.1.4 Develop/Prepare Brownfield Plan and Work Plan

Preparation of Brownfield Plan and associated activities (e.g. meetings with Rochester Hills Brownfield Redevelopment Authority (RHBRA), etc.) at a cost of approximately \$20,000.

### 2.2 MSF Eligible Activities

MSF Eligible Activities are not applicable to this work plan.

### 2.3 Local Only Eligible Activities

Local Only Eligible Activities are not included in this work plan.

### 3.0 TAX INCREMENT REVENUE ANALYSIS

### 3.1 Estimate of Captured Taxable Value and Tax Increment Revenues

Incremental taxes on real property included in the redevelopment project will be captured under this Brownfield Plan to reimburse eligible activity expenses. Tax increment revenue capture is estimated to begin in 2015. The effective base taxable value of the land and real property is \$13,110; no personal property is associated with the site. The estimated taxable value of the completed development is \$800,000 estimated to begin in 2015. Tax increment revenue assumes a one-year phase-in for completion of the redevelopment, which has been

incorporated into the tax impact and cash flow assumptions for this work plan. An annual increase in taxable value of 1% has been used for calculation of future tax increments in this work plan.

The RHBRA will capture 3% of captured taxes annually and continue capturing tax increment revenues for 5 years following payback, to build the Local Site Remediation Revolving Fund (LSRRF). The estimated captured taxable value and tax increment revenues for the Property and millages levied by the taxing jurisdictions for each year of the work plan are presented in Table 2.

### 3.2 Method of Financing and Description of Advances Made by the Municipality

Redevelopment activities at the property will be initially funded by General Trucking, Inc.

Costs for eligible activities funded by General Trucking will be repaid under the Michigan brownfield redevelopment financing program with incremental taxes generated by the future development of the property. No advances will be made by the municipality for this project.

### 3.3 Maximum Amount of Note or Bonded Indebtedness

The City of Rochester Hills will not incur a financial note or bonded indebtedness for this project. Therefore, a reporting on indebtedness is not required.

### 3.4 Duration of Brownfield Plan

The duration of this work plan should be not less than the period required to reimburse all eligible activities plus five years for additional capture to build the LSRRF. The approval date of the Brownfield Plan by the City Council will mark the beginning of the reimbursement period, unless modified at the discretion of the City as allowed under Act 381.

The RHBRA has limited TIF capture for the developer to the maximum approved amount of eligible activities (including contingency) or twenty-four years, whichever occurs first. In no event, however, shall this work plan extend beyond the capture period for the City's local revolving loan fund, or the maximum term of 30 years allowed by Section 13 of Act 381 for the duration of this work plan.

Unless otherwise agreed to in writing by the RHBRA, this Plan will expire and no longer be valid if the applicant does not execute a Reimbursement Agreement within one hundred and eighty days of the date the Plan is approved by City Council. To remain eligible for the approved incentives, eligible activities must start within eighteen months of Plan approval, construction must start within five years of the executed Reimbursement Agreement, and construction must be completed within three years of the estimated completion date.

### 3.5 Estimated Impact of Tax Increment Financing on Revenues of Taxing Jurisdictions

Local tax capture will be limited to the proportional share of the captured millages as described in the RHBRA policies.

Tax increments are projected to be captured and applied to (i) reimbursement of eligible activity costs and payment of RHBRA administrative and operating expenses, and (ii) make deposits into the RHBRA's LSRRF, as follows:

Total Activities Funded by TIF	Estima	ted Costs
Developer Reimbursement (including a 15% contingency)	\$	759,573
Capture for Local Site Remediation Revolving Fund	\$	216,143
RHBRA Administrative Fees	\$	52,169
Total	\$	1,027,885

Taxes will continue to be generated to taxing jurisdictions on local captured millages and state school millages at the base taxable value of \$13,110 throughout the duration of this plan totaling approximately \$16,327 or \$563 annually as presented in the table below.

Local Tax Millages		
County Operating	4.19	\$ 55
OAK INT SD	3.3690	\$ 44
OCC	1.5844	\$ 21
County PK & REC	0.2415	\$ 3
НСМА	0.2146	\$ 3
City Millages	9.3412	\$ 122
Total Local Taxes (capturable)	18.9407	\$ 248
School Millages		
School Operating	18.0000	\$ 236
SET (only 3 millages are available for BF TIF capture)	6.0000	\$ 79
Total School Taxes	24.0000	\$ 315
Total Local and School Taxes	42.9407	<b>563</b>

Non-capturable millages will see an immediate increase in tax revenue following redevelopment and will provide anticipated new tax revenue of \$192,391 throughout the duration of this plan.

For a complete breakdown of the captured millages and developer reimbursement please see Table 2.

### **4.0 INFORMATION REQUIRED BY SECTION 15(15) OF THE STATUTE FOR NON-ENVIRONMENTAL ACTIVITIES** (required for work plans submitted for MSF consideration)

While this section is not required for non-MSF work plans, it has been completed for the benefit of the City of Rochester Hills.

### 4.1 How are the individual activities included in the work plan sufficient to complete the eligible activity?

Redevelopment of the property, which has been vacant since 1977, will bring new business and create jobs for the City of Rochester Hills. All due care and additional response activities will bring the property to successful reuse.

### 4.2 How is each individual activity included in the work plan required to complete the eligible activity?

To properly redevelop the property for its intended use, the individual activities included in this work plan are required to complete the eligible activity. The installation of methane venting system and vapor barrier and an engineered barrier in the proposed detention pond are required to meet due care obligations. Transport and disposal of contaminated soils, installation of a Geo-Grid, installation of lift stations, and a helical piers and grade beam system are required as a response activity due to the property's history as a landfill for successful reuse.

### 4.3 How were the costs for each individual activity determined to be reasonable?

Eligible activity costs were either based on real cost bids or were determined by the development team and subcontractors based on prior experience. Available bids are provided as Attachment E in this work plan.

### 4.4 What is the overall benefit to the public?

The completion of this redevelopment will increase the taxable value of the property by an estimated \$786,890 and promote additional private investment in this area of Rochester Hills. Additionally, the proposed development will bring additional jobs to the City. The development will also assist in satisfying the economic development study conducted by the City, which aimed to bring this former landfill property to successful reuse.

### 4.5 To what extent will vacant buildings be reused and redevelopment of blighted property occur?

Currently, there are no buildings on the property; therefore, this section is not applicable.

### 4.6 How many and what type of jobs will be created by the project?

It is anticipated that 14 office positions and 70 drivers will be retained from the current location and an additional 3-5 new office positions and 10 new drivers will be added following redevelopment.

Office positions consist of sales, marketing, dispatching, warehouse staff, and executives/managers.

It is anticipated that approximately 115-130 temporary constructions jobs will be created including the General Contractor, Architectural, Engineering, and Construction.

### 4.7 Is the eligible property in an area of high unemployment?

According to City Data, the City of Rochester Hills Unemployment Rate was 5.1% in July 2013.

### 4.8 What is the level and extent of contamination alleviated by or in connection with the eligible activities?

The eligible activities will be conducted to address Due Care Obligations and Additional Response activities in relation to the contamination found on the property. All eligible activities are a result of the property being contaminated.

### 4.9 What is the level of private sector contribution to the project?

100% of the project is being funded by the private sector up front.

### 4.10 If a greenfield site was considered, what is the cost gap between the site and a similar greenfield site? Alternatively, what extraordinary costs for this site are related to it being a brownfield?

A greenfield site was not considered for this project.

The costs included in this work plan of \$737,573 are all costs that are above what would be required on a greenfield site and are related to the brownfield status of this site.

### 4.11 If the developer or projected occupant of the new development is moving from another location in this state, will the move create a brownfield?

The projected occupant is moving their operations from their current leased location in the City of Warren as it does not meet the needs of their growing business. This property is, however, desirable for new tenants and is currently in an industrial area that will be easily leased to another firm.

# 4.12 Provide project pro forma, financial statements or other acceptable documentation, which demonstrates that the project is financially and economically sound.

A project pro-forma and financials are provided in Attachment F of this Work Plan.

### 4.13 Identify the amount of all other anticipated state or local incentives that directly or indirectly benefit this project.

No other state or local incentives are anticipated for this project.

### 4.14 Provide any additional information you want MSF to consider while reviewing this work plan.

No additional information.

### 5.0 SCHEDULE OF ACTIVITIES

### 5.1 Schedule

April - July 2014: Brownfield Plan Application and Approval Engineering and Site Plan Approvals Permit Applications and Approvals

June – December 2014: Site Construction (geo-grid, lift stations etc.) Foundations & Auger Piles Steel & Enclosure Methane Vapor Barrier Installation and Venting Interior Finishes

A full project schedule is provided as Attachment F of this Work Plan.

### 6.0 ESTIMATED COSTS

### 6.1 Summary of Total Project Costs

A full listing of eligible brownfield activities is provided in Table 1 and a listing of project costs is provided in Attachment F with the project pro-forma and financials.

### 6.2 Sources and Uses of Incentives and Funds

A listing of sources and uses are provided in Attachment F. No incentives are available for this project up front and are on a reimbursement basis only.

### 6.3 Summary of Relocation Actions

### 6.3.1 Estimates of Residents and Displacement of Individuals/Families

Not applicable to this project.

### 6.3.2 Plan for Relocation of Displaced Persons

Not applicable to this project.

### 6.3.3 **Provisions for Relocation Costs**

Not applicable to this project.

### 6.3.4 Strategy for Compliance with Michigan's Relocation Assistance Law

Not applicable to this project.

### 6.4 Description of Proposed Use of Local Site Remediation Revolving Fund

Not applicable to this project.

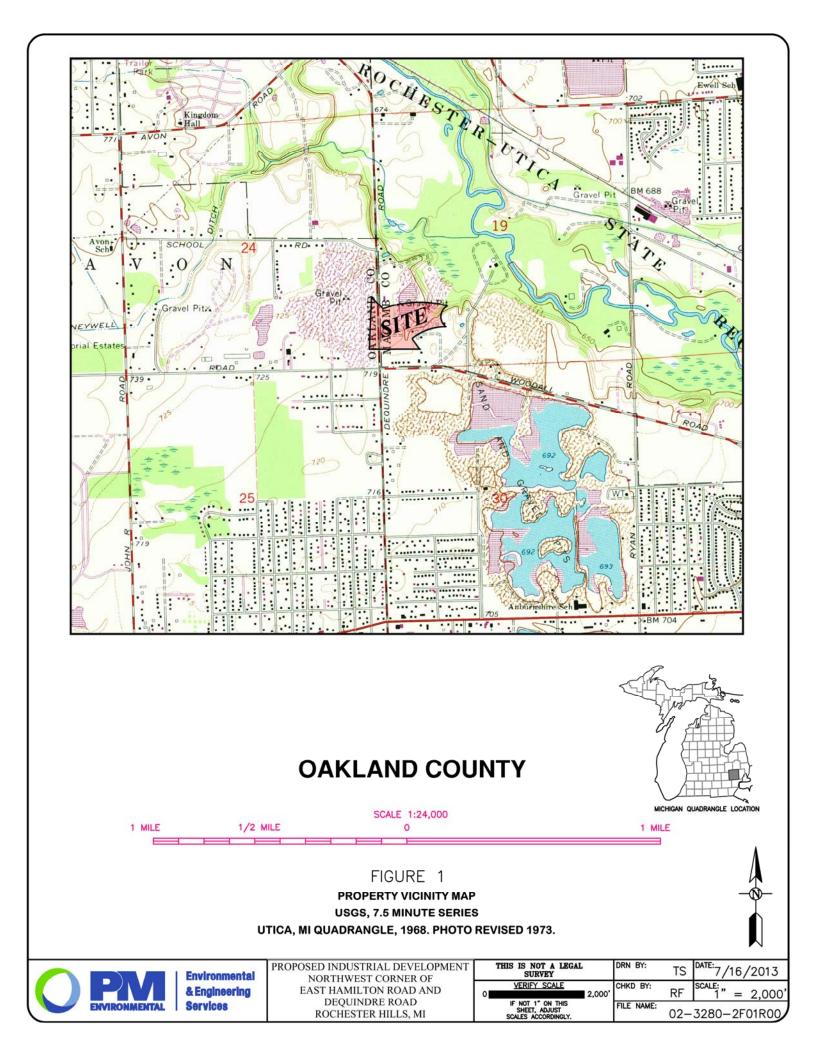
### 6.5 Other Material that the Authority or Governing Body Considers Pertinent

No additional material attached.

# FIGURES

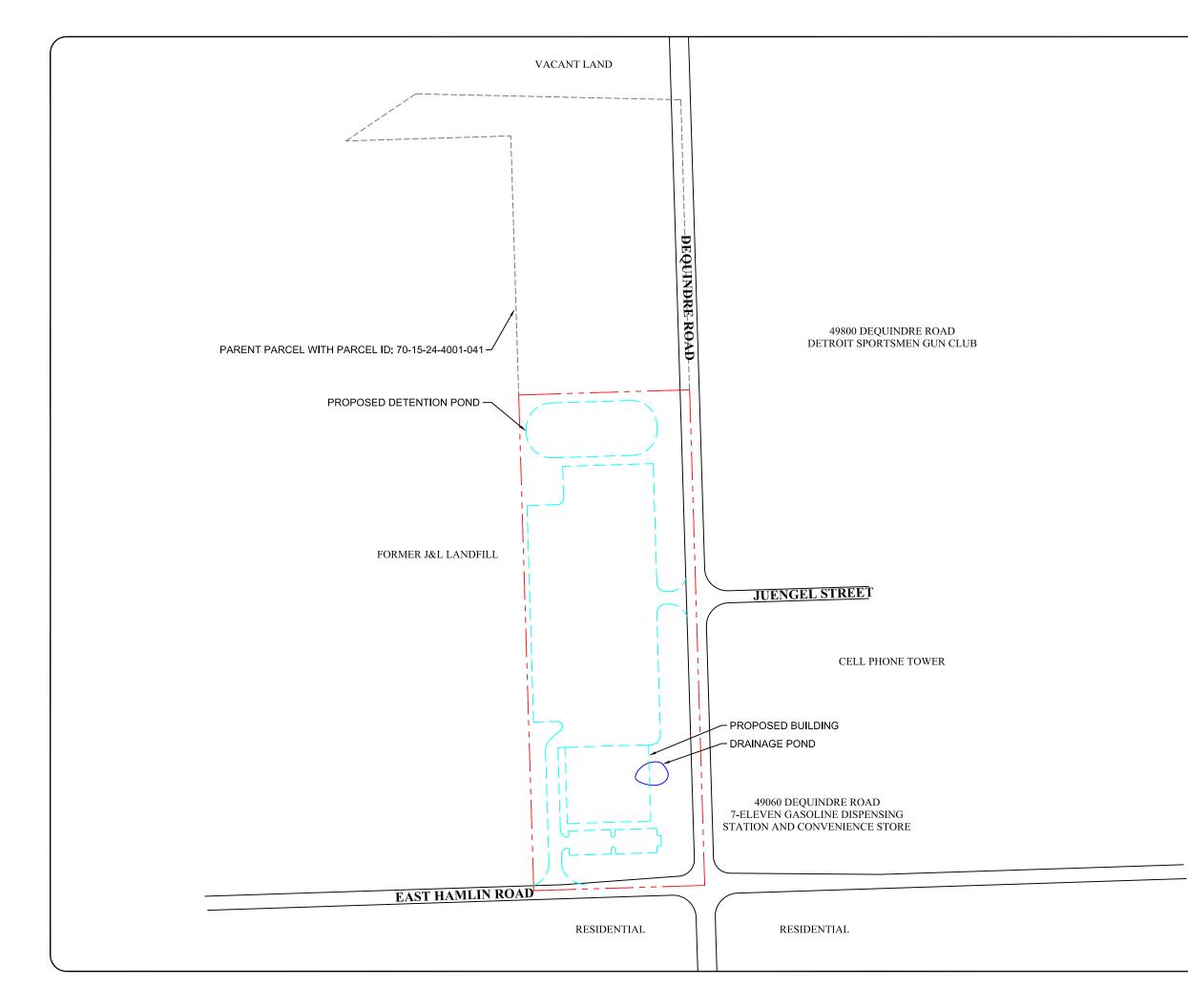
## Figure 1

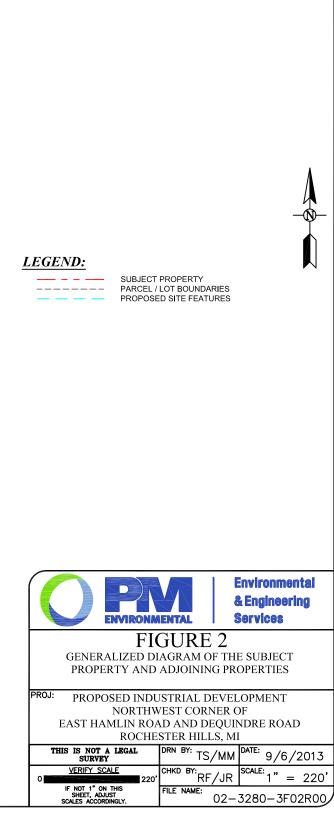
**Scaled Property Location Map** 



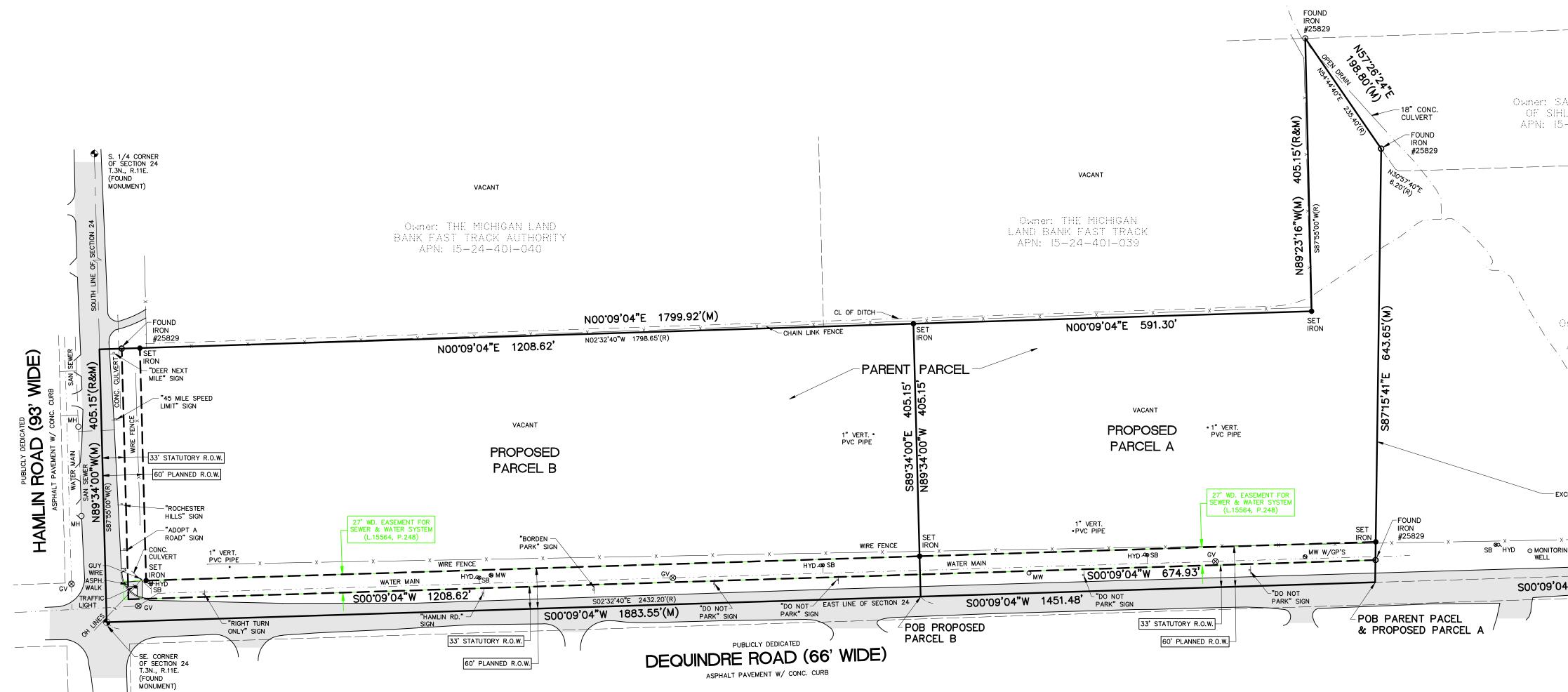
# Figure 2

Eligible Property Map(s)









#### LEGAL DESCRIPTIONS

Land described as follows: City of Rochester Hills, County of Oakland, State of Michigan

Part of the Southeast 1/4 of Section 24, Town 3 North, Range 11 East, City of Rochester Hills, Oakland County, Michigan, described as: Beginning at a point on the East line of said Section 24, distant South 02 degrees 32 minutes 40 seconds East 234.05 feet from the East 1/4 corner of said Section 24; thence South 02 degrees 32 minutes 40 seconds East 2432.20 feet along said East line to the Southeast corner of said Section 24; thence South 87 degrees 55 minutes 00 seconds West 405.15 feet along the South line of said Section 24; thence North 02 degrees 32 minutes 40 seconds West 1798.65 feet; thence South 87 degrees 55 minutes 00 seconds West 405.15 feet; thence North 54 degrees 44 minutes 40 seconds East 235.40 feet; thence North 30 degrees 57 minutes 40 seconds East 6.20 feet; thence North 02 degrees 34 minutes 00 seconds West 716.03 feet; thence along the South Right of Way line to School Road (66.0 feet wide) on a curve to the right, Radius = 539.96 feet, Chord bears South 68 degrees 37 minutes 02 seconds East 222.08 feet, an Arc distance of 223.68 feet and South 56 degrees 45 minutes 00 seconds East 28.03 feet and on a curve to the left, Radius = 605.96 feet, Chord bears South 74 degrees 50 minutes 00 seconds East 376.18 feet, an Arc distance of 382.50 feet and North 87 degrees 05 minutes 00 seconds East 26.85 feet to the point of beginning, EXCEPT the North 776.55 feet, as measured from the East and West 1/4 line of Section 24, thereof.

### Tax Parcel No.: 15-24-401-041

PARENT PARCEL - DESCRIPTION AS SURVEYED:

Part of the Southeast 1/4 of Section 24, Town 3 North, Range 11 East, City of Rochester Hills, Oakland County, Michigan, described as beginning at a point on the East line of said Section 24, distant South 00 degrees 09 minutes 04 seconds West 776.55 feet from the East 1/4 corner of said Section 24; thence continuing along said line South 00 degrees 09 minutes 04 seconds West 1883.55 feet to the Southeast corner of said Section 24; thence along the South line of said Section 24, North 89 degrees 34 minutes 00 seconds West 405.15 feet; thence North 00 degrees 09 minutes 04 seconds East 1799.92 feet; thence North 89 degrees 23 minutes 16 seconds West 405.15 feet; thence North 57 degrees 26 minutes 24 seconds East 198.80 feet; thence South 87 degrees 15 minutes 41 seconds East 643.65 feet to the point of beginning.

LEGEND			
ASPH	=		
C	=		
CATV	=		
CB CO	=	Catch Basin Clean Out	
CONC	_	Concrete	
E	_		
EM	=		
EC	_		
F.I.	_	Electric Conduit/Riser Found Iron	
G	_		
GL	=	Ground Light	
GP	=		
GV	=	Gate Valve	
HYD	=		
LP	=	Light Pole	
L/S	=	Landscape	
MH	=		
MON.	=	monument	
MW		Monitor Well	
OH LINES	=		
P PH	=	Phone/Box/Riser Physically Handicapped	
PIV	_		
P/L	=		
PM	=	Parking Meter	
ROW	=		
SAN	=		
SB	=	Stop Box (Water)	
S.I.	=	Set Iron	
SO	=	Shutoff (Water)	
STM	=	Storm Sewer	
TRANS	=		
UP	=		
WM (D)	=	hator man	
(R)	=	Record Measurement	
(M)	=	Surveyed Measurement	
(C)	=	Calculated	
100		0 50 100	

### PROPOSED PARCEL A:

Part of the Southeast 1/4 of Section 24, Town 3 North, Range 11 East, City of Rochester Hills, Oakland County, Michigan, described as: Commencing at the East 1/4 corner of said Section 24; thence along the East line of said Section 24 South 00 degrees 09 minutes 04 seconds West 776.55 feet to the point of beginning; thence continuing along said East line South 00 degrees 09 minutes 04 seconds West 674.93 feet; thence North 89 degrees 34 minutes 00 seconds West 405.15 feet; thence North 00 degrees 09 minutes 04 seconds East 591.30 feet; thence North 89 degrees 23 minutes 16 seconds West 405.15 feet; thence North 57 degrees 26 minutes 24 seconds East 198.80 feet; thence South 87 degrees 15 minutes 41 seconds East 643.65 feet to the point of beginning.

#### PROPOSED PARCEL B: Part of the Southeast 1/4 of Section 24, Town 3 North, Range 11 East, City of Rochester Hills, Oakland County, Michigan, described as: Commencing at the East

Rochester Hills, Oakland County, Michigan, described as: Commencing at the East 1/4 corner of said Section 24; thence along the East line of said Section 24 South 00 degrees 09 minutes 04 seconds West 1451.48 feet to the point of beginning: thence continuing along said East line South 00 degrees 09 minutes 04 seconds West 1208.62 feet to the Southeast corner of said Section 24; thence along the South line of said Section 24, North 89 degrees 34 minutes 00 seconds West 405.15 feet; thence North 00 degrees 09 minutes 04 seconds East 1208.62 feet; thence South 89 degrees 34 minutes 00 seconds West 405.15 feet; thence 34 minutes 00 seconds East 405.15 feet to the point of beginning.

### FLOOD HAZARD NOTE

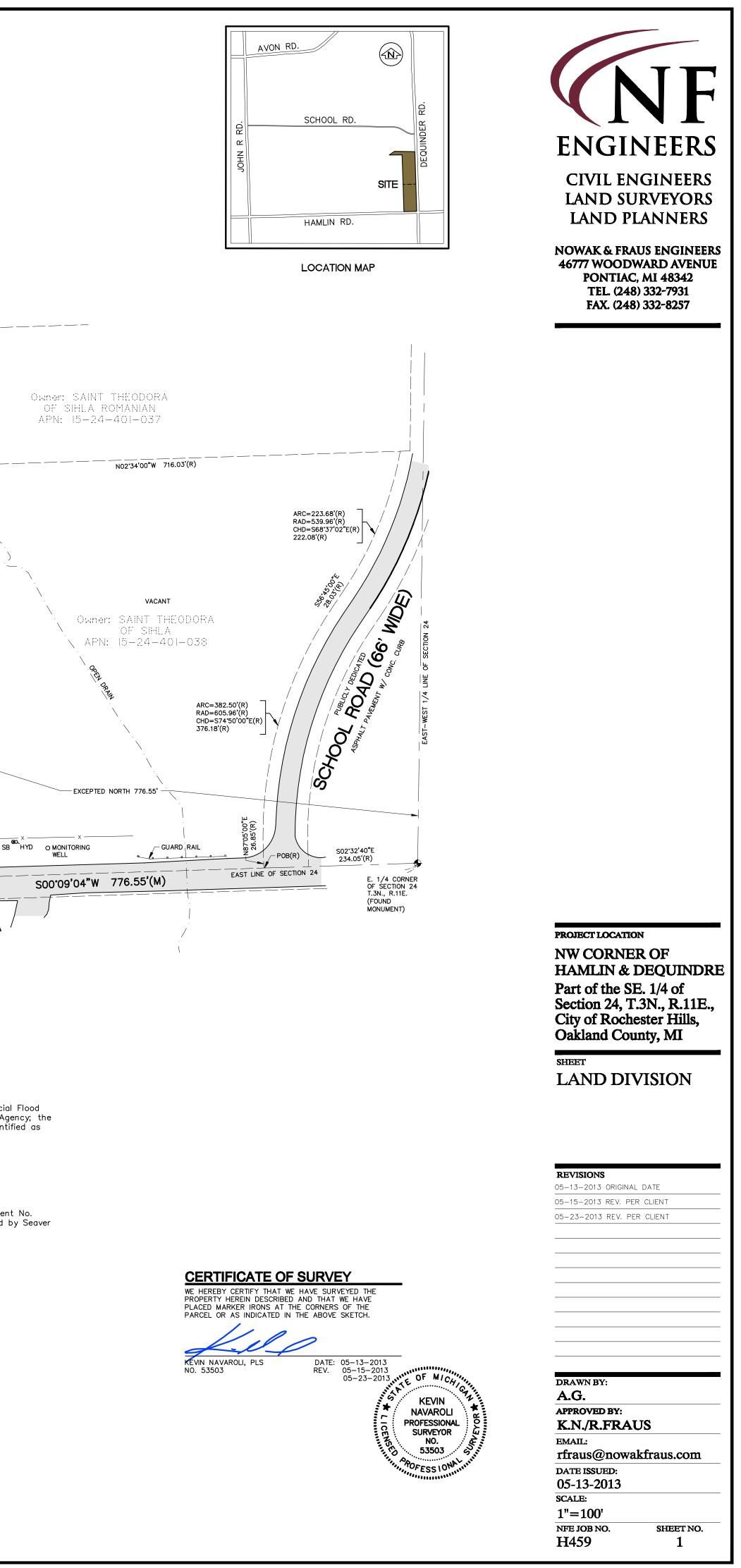
The Property described on this survey does not lie within a Special Flood Hazard Area as defined by the Federal Emergency Management Agency; the property lies within Zone X of the Flood Insurance Rate Map identified as Map No. 26125C0413F bearing an effective date of 9-29-2006.

### NOTES

All easements on this survey were obtained from Title Commitment No. 63—13306204—SCM, with an effective date of 3—13—2013, issued by Seaver Title Agency, LLC.

### SITE DATA

- Gross Land Area: Parent Parcel: 800,337 Square Feet or 18.373 Acres. Proposed Parcel A: 310,672 Square Feet or 7.132 Acres. Proposed Parcel B: 489,665 Square Feet or 11.241 Acres.
- To 33' Statutory R.O.W. line: Parent Parcel: 725,838 Square Feet or 16.663 Acres. Proposed Parcel A: 288,377 Square Feet or 6.620 Acres. Proposed Parcel B: 437,461 Square Feet or 10.043 Acres.
- To 60' Master Planned R.O.W. line: Parent Parcel: 666,507 Square Feet or 15.301 Acres. Proposed Parcel A: 270,103 Square Feet or 6.201 Acres. Proposed Parcel B: 396,404 Square Feet or 9.100 Acres.

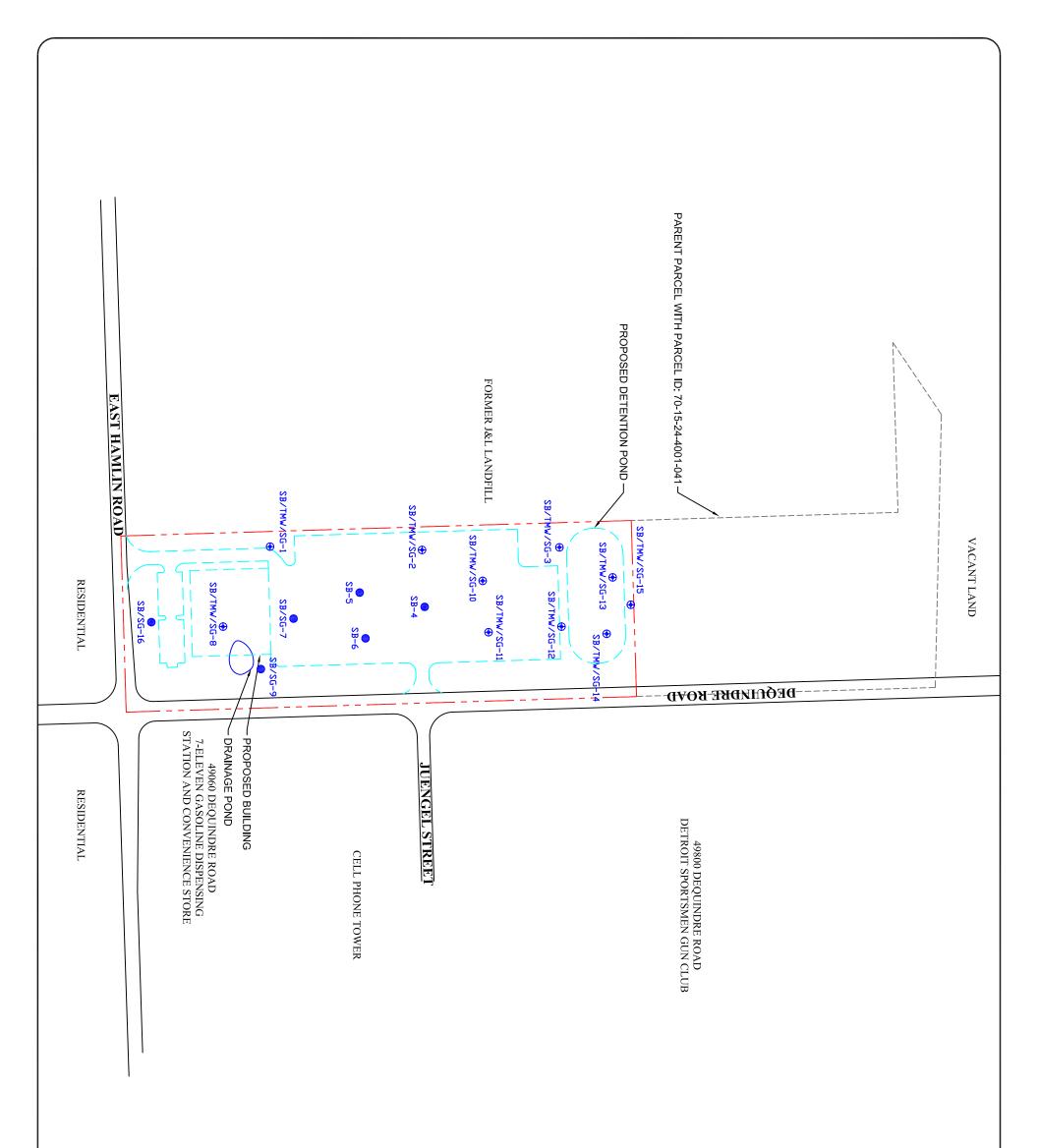


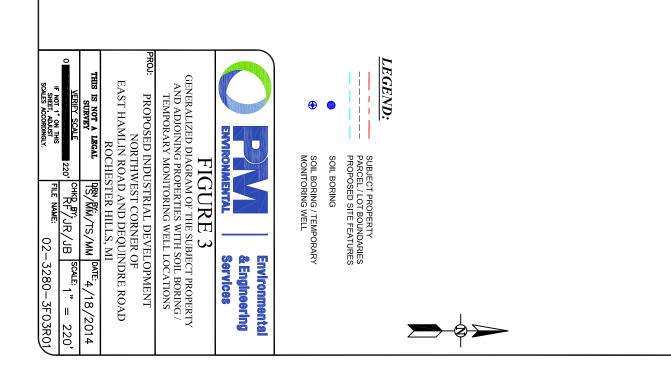
### Map w Adjoining



## Figure 3

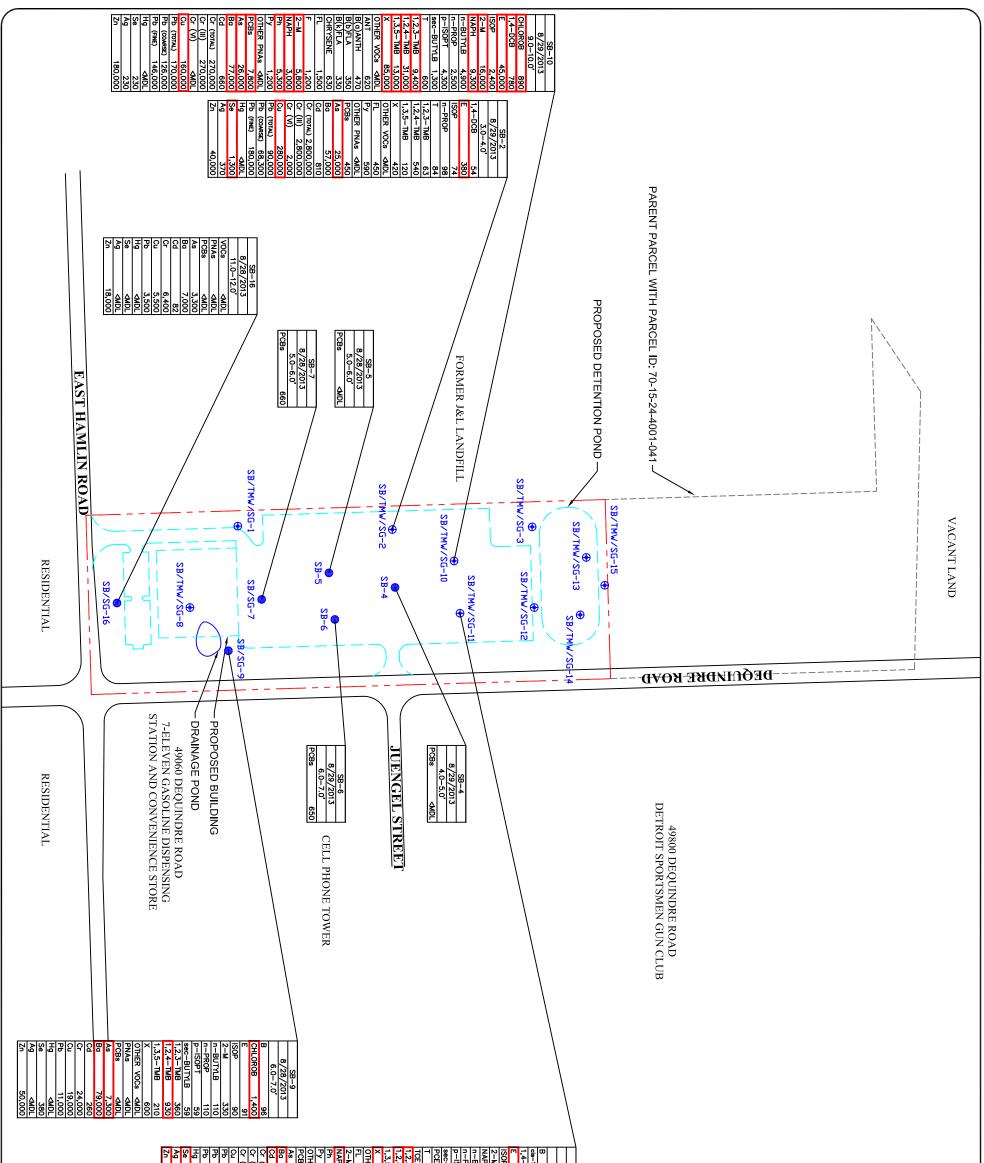
**Sampling Location Map** 



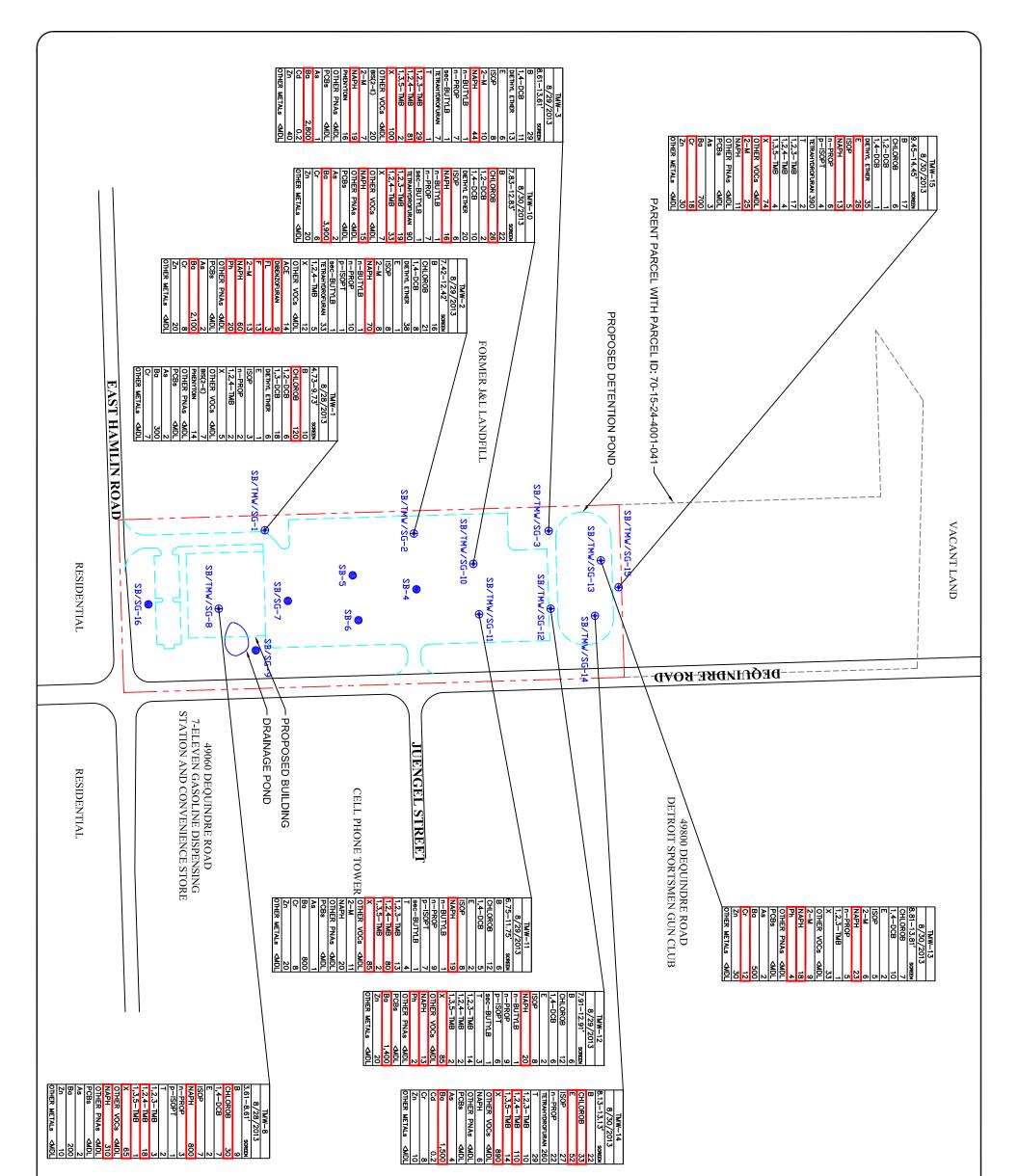


### Figure 4

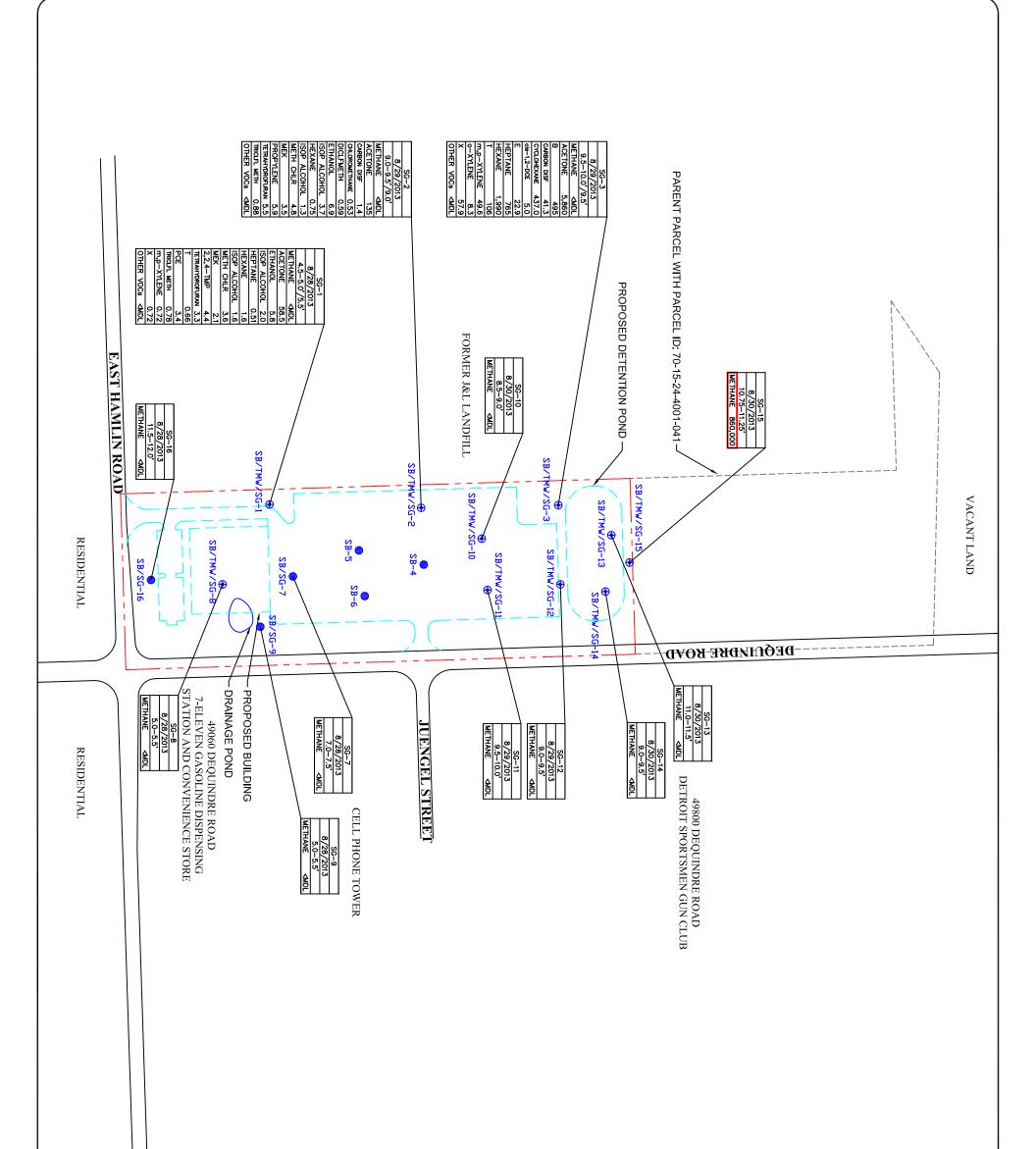
Map(s) and Soil Boring Logs of Known Extent of Vertical & Horizontal Contamination

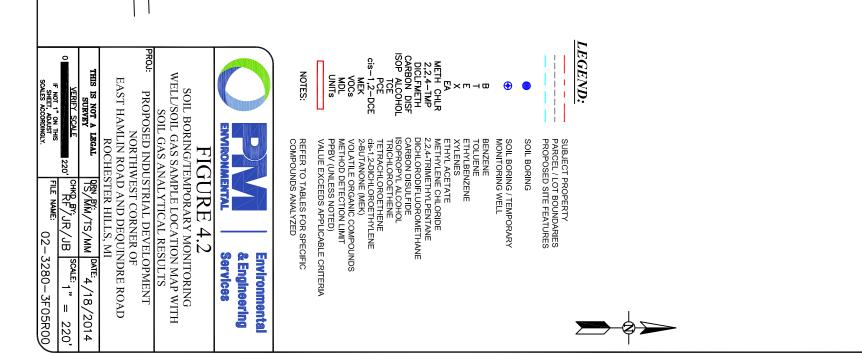


SB-11       8/29/2013       6/0-7.07       6/0-7.07       8/29/2013       6/0-7.07       9/2-1008       9/2-1008       9/2-1008       9/2-1008       9/2-1008       100       1-1       -0       -1	
FROJ: PROPOSED II BORING VWELL/SOIL GAS SOIL A PROJ: PROPOSED II NOR EAST HAMLIN NOR EAST HAMLIN ROC <b>THIS IS NOT A LEGAL</b> SURVEY SCALE O VERIEY SCALE	DECEND: LECEND: LECEND: LECEND: LECEND: PCEND:
THE PROVIDENT ALL PROVIDENT ALL PROVIDENT ALL PROVIDENT CORN ROAD AND DE CORN ROAD AND DE CHESTER HILL CHESTE	SUBJECT PROPERTY PARCEL / LOT BOUNDARIES PROPOSED SITE FEATURES SOL BORING / TEMPORARY MONITORING WELL ARSENIC BARIUM CARMIUM CARMIUM CARMIUM CARMUM CARMUM CARCURY SELENUUM SILVER ZINC ANTHRACENE BENZO(b)FLUORANTHENE FLUORANTH
Environmental & Engineering Services I.O MONITORING ATION MAP WITH ESULTS SVELOPMENT ER OF QUINDRE ROAD S, MI MM DMTE:4/18/2014 /MM DMTE:4/18/2014 /JB SCALE: 1" = 220' D2-3280-3F03R00	RARY RARY RARY RE INNE INNE INNE INNE INNE INNE INNE I









		Project No.: 02-6176-	·1	Boring	<b>LOG</b> . Boring No.: SE	3-1
		Project Name: Comm	ercial Prope	rty	Date Drilled: 0	5/07/2013
		Facility ID#:			Drill Rig: 5400	
NVID	ONMENTAL	Logged By: BTL			Sampling Met	h <b>od:</b> Grab
				SAMP	E	
Boring Profile	Descrip	tion and Comments	Sample # Depth	Blow Counts	PID (ppm)	No Well Installed
	GRAVEL	Ground Surface				
	CL- (Mediu	m Stiff) CLAY (moist)		-	0.0	
	Brown and Blac	ck, with trace fine sand	SS-1 1.0' - 2.0'	-	0.0	
	CL- (Stiff) C Brown	CLAY (moist)		-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
	CL- (Stiff) C Gray	CLAY (moist)		-	0.0	
				-	0.0	
				-	0.0	
				-	0.0	
		<b>s:</b> EOB @ 16' bgs. Hole				

2. Boring backfilled with natural soils unless otherwise noted.



Project Name: Commercial Property

Facility ID#:

Logged By: BTL

Well No.: SB/TMW-2

Date Drilled: 05/07/2013

Drill Rig: 5400

Well Log .

	S	UBSURFACE PROFILE	S	AMPL	.E			
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)			dwater etion Details
0-		Ground Surface				_		
		GRAVEL		-	0.0		*	Ground Surface −
- - 2-		CL- (Medium) CLAY (moist to wet) Black, with trace fine sand		-	0.0	Screen <sup>–</sup>		Lound
				-	0.0	1" PVC Casinç 1" 10-Slot PVC Screen		∙— 2.11' ਨੂੱ
				-	0.0	10-Slo		.19')
4		CL- (Stiff) CLAY (moist) Brown		-	0.0	÷-		Approximate Water Level (3.19')
- - - 6				-	0.0			e Water
				-	0.0			
- - - 8-				-	0.0			
				-	0.0			
- - - 10-				-	0.0			
				-	0.0			
- - - 12-				-	0.0			
-								
	Con	pletion Notes: EOB @ 12' bgs. Hole fil	led with Soi	il Cuttin	gs and Ben	itonite		
	1.	The indicated stratification lines are approximate in	ı situ.					
	2.	The transitions between materials may be gradual. Boring backfilled with natural soils unless otherwise	e noted					
						Sh	eet: 1	of 1



Project Name: Commercial Property

Facility ID#:

Logged By: BTL

Well No.: SB/TMW-3

Date Drilled: 05/07/2013

Drill Rig: 5400

Well Log .

	S	SUBSURFACE PROFILE	S	AMPL	<u>.E</u>	
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	Groundwater Well Completion Details
0-		Ground Surface				0.00'
_		GRASS and TOPSOIL			0.0	
_		SW- (Loose) SAND (wet to		-	0.0	
		<b>saturated)</b> Gray, fine		-	0.0	C Casing
2— - - -				-	0.0	
- - - 4-				-	0.0	1" PVC
-		CL- (Medium Stiff) CLAY (moist) Brown		-	0.0	vater Lee
- - - 6				-	0.0	1" 10-Slot PV 1" 10-Slot PV 4Pproximate Water Level (2.49') -
- - - -				-	0.0	Approx
- - - - 8-				-	0.0	
-				-	0.0	
				-	0.0	
-				-	0.0	
- - - 12-				-	0.0	
-						
-	Con	apletion Notes: EOB @ 12' bgs. Hole fill	led with Soi	l Cuttin	igs and Ben	itonite
	1.	The indicated stratification lines are approximate in	i situ.			
		The transitions between materials may be gradual. Boring backfilled with natural soils unless otherwise				
						<b>Sheet:</b> 1 of 1



Project Name: Commercial Property

Facility ID#:

Logged By: BTL

Well No.: SB/TMW-4

Date Drilled: 05/07/2013

Drill Rig: 5400

Well Log .

	S	SUBSURFACE PROFILE	S	AMPL	. <u>E</u>	
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)	Groundwater Well Completion Details
0-		Ground Surface				0.00'
_	. ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	ASPHALT		_	0.0	
_		GRAVEL				
- - - 2-		CL- (Medium Stiff) CLAY (moist) Brown and Gray		-	0.0	VC Casing VC Screen
-				-	0.0	
- - - 4-		SW- (Loose) SAND (wet to saturated) Brown, fine		-	0.0	1" PVC Casing 1" 10-Slot PVC Screen vel (2.91') Ground
-				-	0.0	► 5.00' b
- - - 6-		CL- (Stiff) CLAY (moist) Brown and Gray		-	0.0	ate Wati
-				-	0.0	Approximate Water Level (2.91')
				-	0.0	Ă.
-				-	0.0	
- - - 10-				-	0.0	
-				-	0.0	
- - - 12-				-	0.0	
-						
	Con	pletion Notes: EOB @ 12' bgs. Hole fill	ed with Soi	l Cuttin	gs and Ber	itonite
		The indicated stratification lines are approximate in The transitions between materials may be gradual.	situ.			
	2. 1	Boring backfilled with natural soils unless otherwise	e noted			
						<b>Sheet:</b> 1 of 1



Project Name: Commercial Property

Facility ID#:

Logged By: BTL

Well No.: SB/TMW-5

Date Drilled: 05/07/2013

Drill Rig: 5400

Well Log .

	S	SUBSURFACE PROFILE	S	AMPL	. <u>E</u>	-	
Depth (ft.)	Boring Profile	Description and Comments	Sample # Depth	Blow Counts	PID (ppm)		Groundwater Completion Details
0-		Ground Surface				-	· · · · · · · · · · · · · · · · · · ·
-		ASPHALT CL- (Medium) CLAY (moist) Brown		-	0.0		Ground Surface
- - - 2-		SP- (Loose) SAND (saturated) Brown, fine		-	0.0	1" 10-Slot PVC Screen 1" PVC Casing	1 75'
-				-	0.0		
- - -		<b>CL- (Stiff) CLAY (moist)</b> Brown and Gray		-	0.0		el (3.24')
-				-	0.0		Approximate Water Level (3.24')
- - - 6- - - -							uxoudd∀ ← 6.75'
-							
	1.	<b>apletion Notes:</b> EOB @ 5' bgs. Hole fille The indicated stratification lines are approximate in The transitions between materials may be gradual. Boring backfilled with natural soils unless otherwise	situ.	Cutting	s and Bent		<b>heet:</b> 1 of 1

## Figure 5

**Color Site Photographs** 



Photographs From Site Reconnaissance PM Project No. 02-3280-2 Location: Northwest corner of East Hamlin Road and Dequindre Road, Rochester Hills, Michigan

Photograph 2	1
	View of the subject property facing northeast
Photograph 2	2
<image/>	View of the subject property facing northwest



Photographs From Site Reconnaissance PM Project No. 02-3280-2 Location: Northwest corner of East Hamlin Road and Dequindre Road, Rochester Hills, Michigan

### Photograph 3



View of the northern portion of the subject property facing southwest

Photograph 4



View of the drainage pond in the southeastern portion of the property

## Figure 6

## **Redevelopment Project Renderings/Elevations**

PROPOSED EAST & WEST TRUCK WASH BLDG, ELEV.	- <b>Г</b>
3'-6" HIGH 6"¢ CONC. FILLED STEEL GUARD POST (TYP.)	
FIN. FLR. ELEV.	
8'-0" HIGH 8" INTEGRALLY COLORED SPLIT-FACE CMU	- 0
12'Wx14'H OPENING w/ PAINTED CHANNEL FRAME	=
PRE-FINISHED INGUL.	
PRE-FINISHED METAL CAP FLASHING W/ DRIP EDGE	

NOTE: EAST AND WEST TRUCK WASH ELEVATIONS ARE THE SAME.

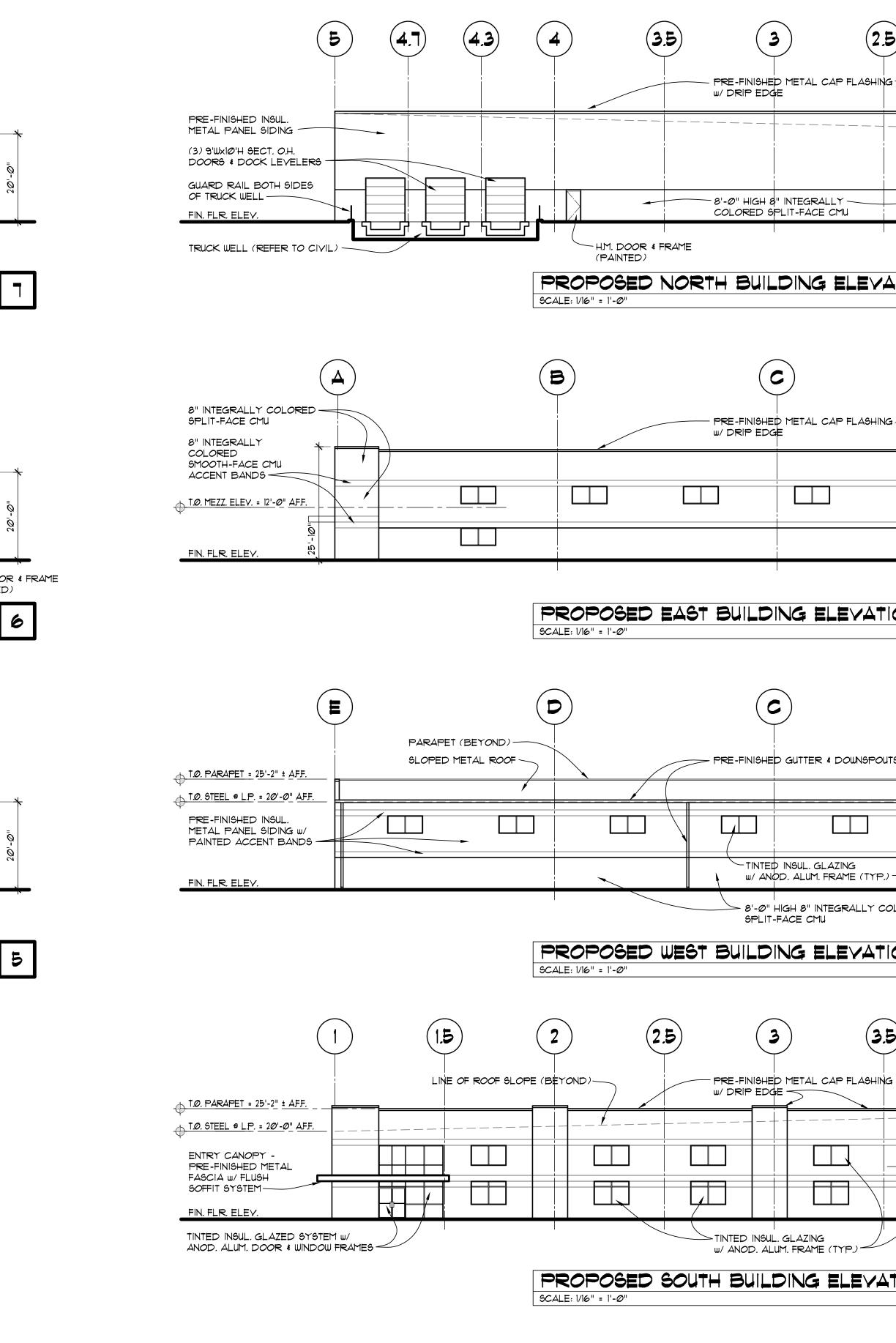
SCALE: 1/16" = 1'-0"

	PRE-FINISHED METAL CAP FLASHING w/ DRIP EDGE			
PRE-FINISHED INSUL. METAL PANEL SIDING				
GUARD POST (BEYOND)				00-
FIN. FLR. ELEY.	8'-0" HIGH 8" INTEGRALLY COLORED SPLIT-FACE CMU			(
H.M. DOOR & FRAME (PAINTED)		H.M. D (PAIN		
PROPO	SED SOUTH TRUCK WASH BLDG, ELEY.		ſ	
SCALE: 1/16" = 1				
			_	

PRE-FINISHED GUTTER & DOWNSPOUTS (TYP.)				l
PRE-FINISHED INSUL. METAL PANEL SIDING				"0"
GUARD POST (BEYOND)	-	8'-0" HIGH 8" INTEGRALLY COLORED SPLIT-FACE CMU		20 1
			Н	

PROPOSED NORTH TRUCK WASH BLDG. ELEV. SCALE: 1/16" = 1'-0"

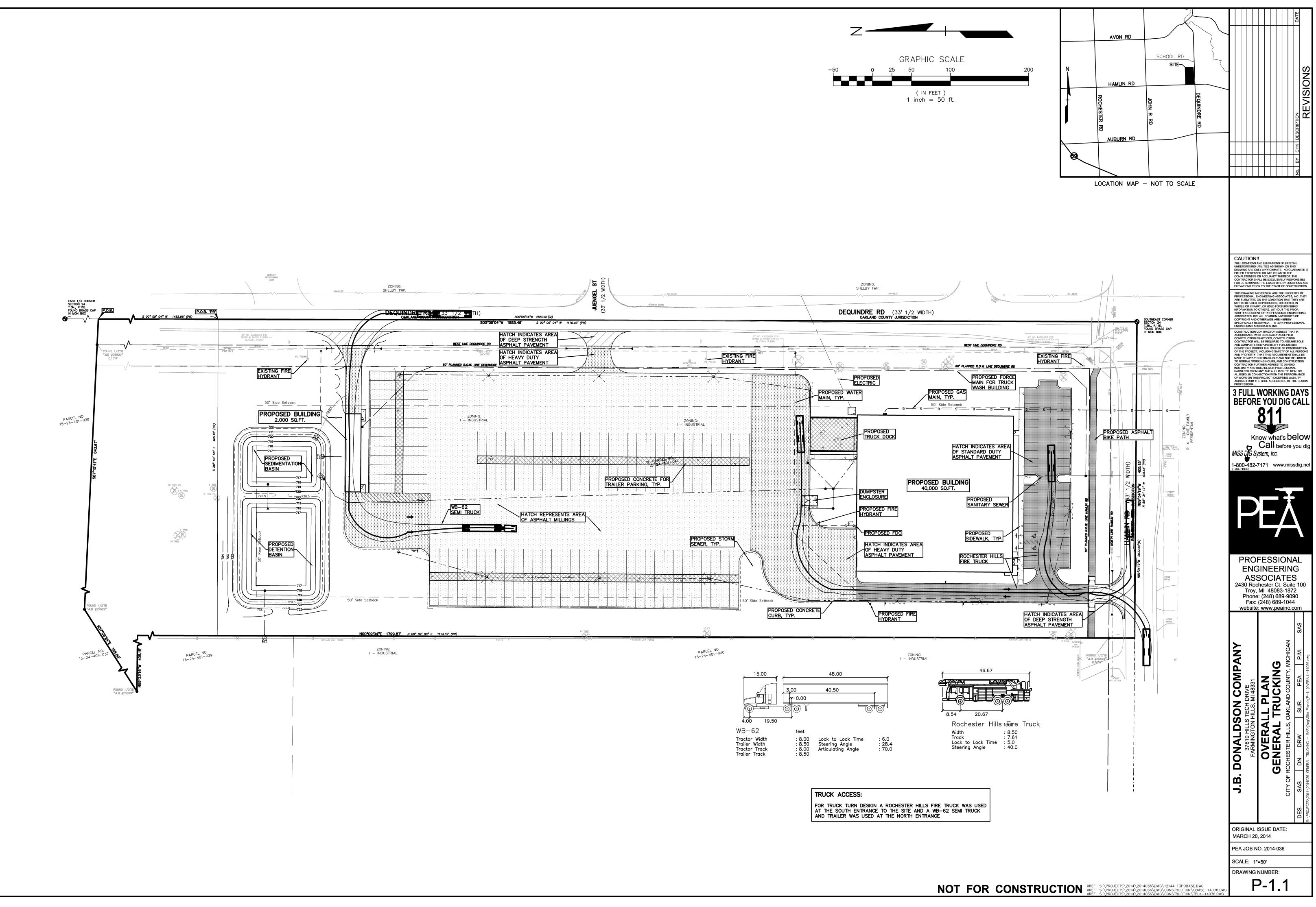
PROPOSED WAREHOUSE & OFFICE FACILITY FOR GENERAL TRUCKING

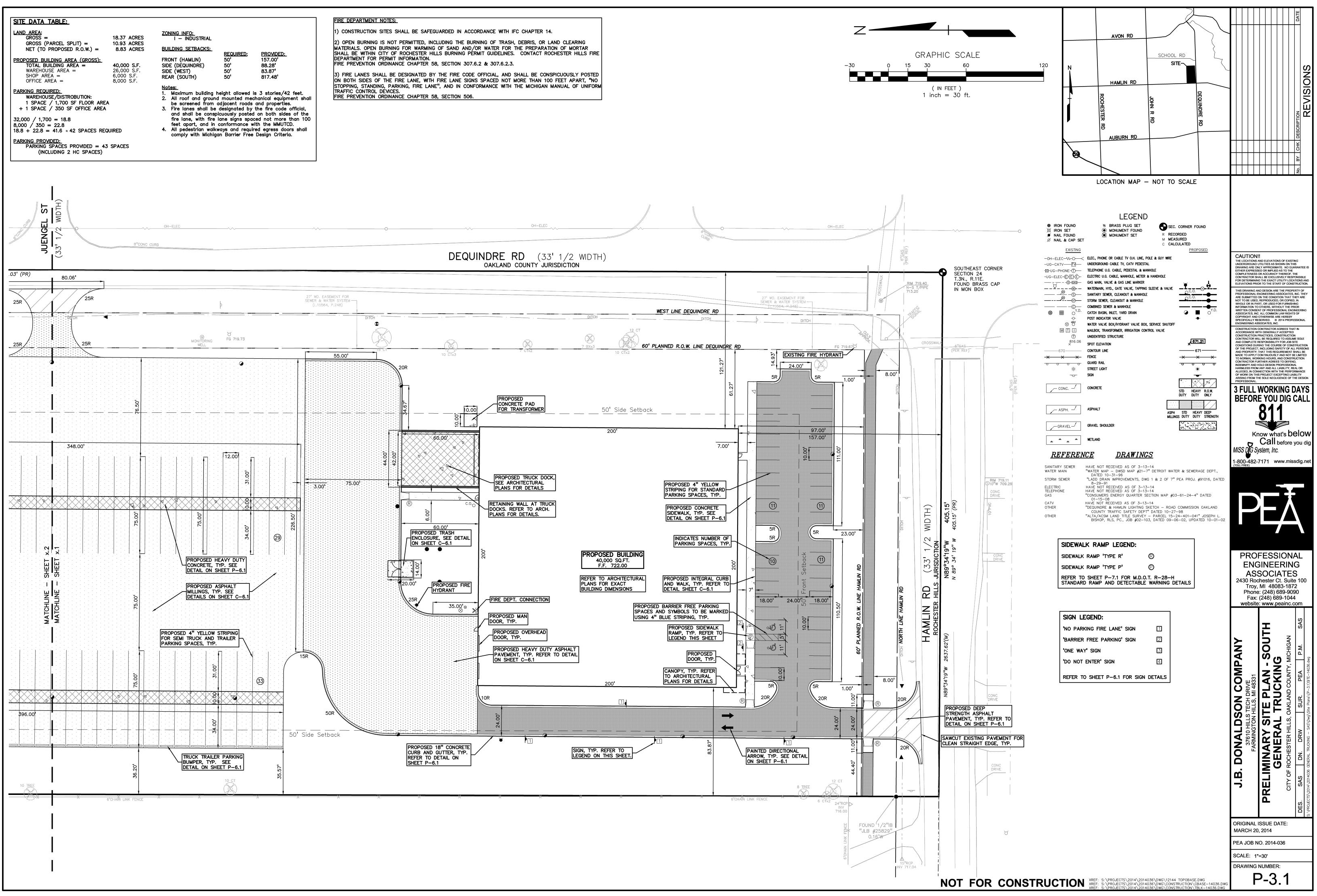


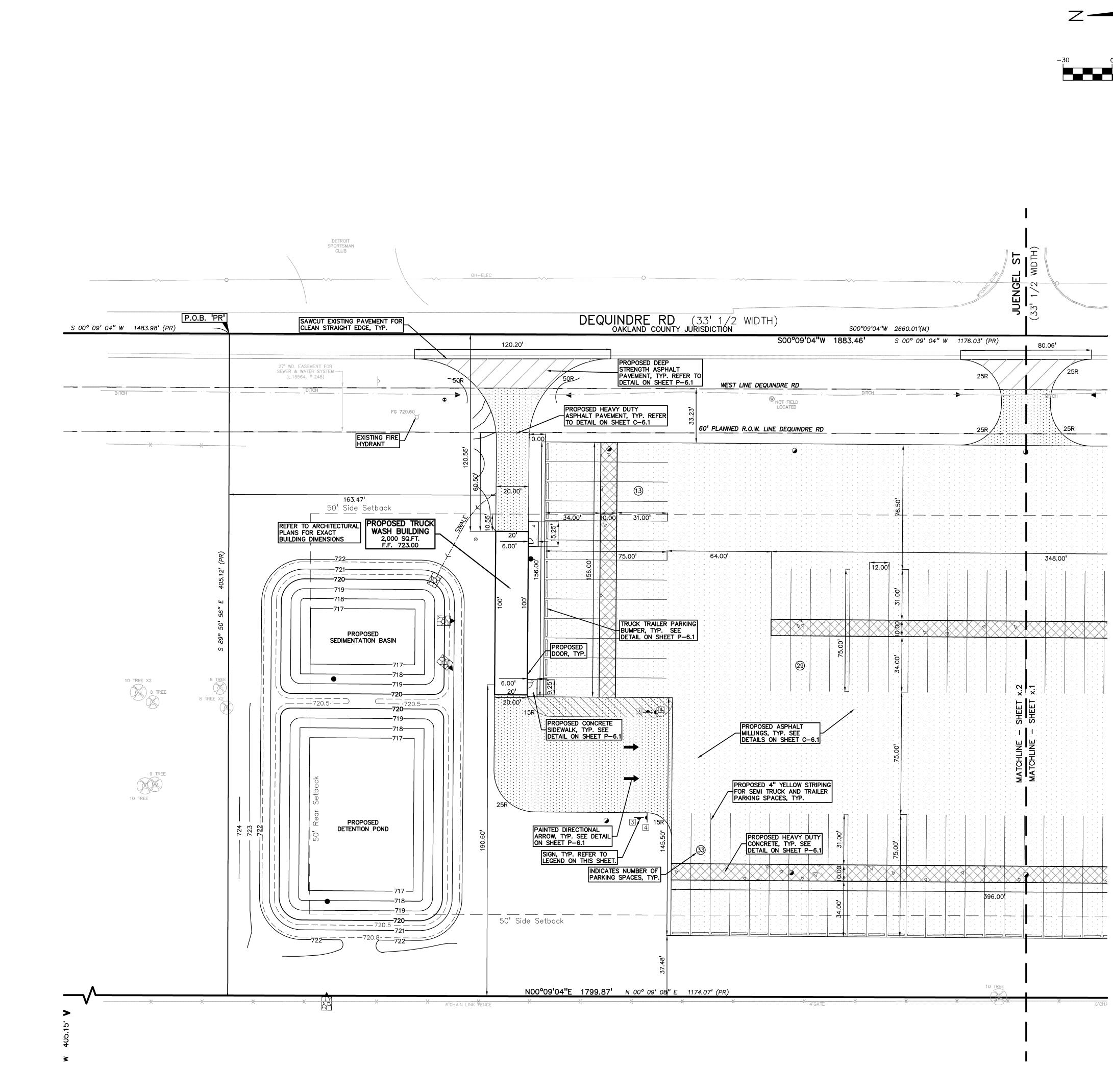
2.5 (1.5) (1)	
LINE OF ROOF SLOPE (BEYOND)	AFF
TØ. STEEL @ L.P. = 20'-0	<u>" AFF.</u>
SECTIONAL C.H. DOC 3'-6" HIGH 6"¢ CONC STEEL GUARD POST	, FILLED
H.M. DOOR & FRAME (PAINTED)	
ATION 4	
ING W/ ANOD. ALUM. FRAME (TYP.) T.O. PARAPET = 25'-2" ±	AFF.
PRE-FINISHED INSUL. METAL PANEL SIDING DAINITED ANGLEDING	Ξ w/
PAINTED ACCENT BA 8'-@" HIGH 8" INTEGR COLORED SPLIT-FAC	RALLY
TION 3	
B	
DUTS (TYP.) 8" INTEGRALLY COLO SPLIT-FACE CMU 8" INTEGRALLY COLO SMOOTH-FACE CMU	ORED
SHOOTH-FACE CHU A BANDS 	
COLORED	
ANOD. ALUM. WINDOW FRAMES	
(4) (4,5) (5) NG (1) INTEGRALLY COLO	ORED
SPLIT-FACE CMU SPLIT-FACE CMU SMOOTH-FACE CMU BANDS	
	AFF.
ANOD. ALUM. DOOR & FRAME W/ TINTED INSUL. GLAZING:	
	DONALDSON COMPANY
SUBMITTALS / REVISIONS 3-20-14 SITE PLAN APPROVAL ASSOCIATES ARCHITECTURE	32969 Hamilton Ct. Suite 211 Farmington Hills Michigan 48334 248.489.2345 Fax: 248.489.2344 www.gillettassociates.comDATEPROJECT NO.SHEET NO.3-13-1414-19PE-1

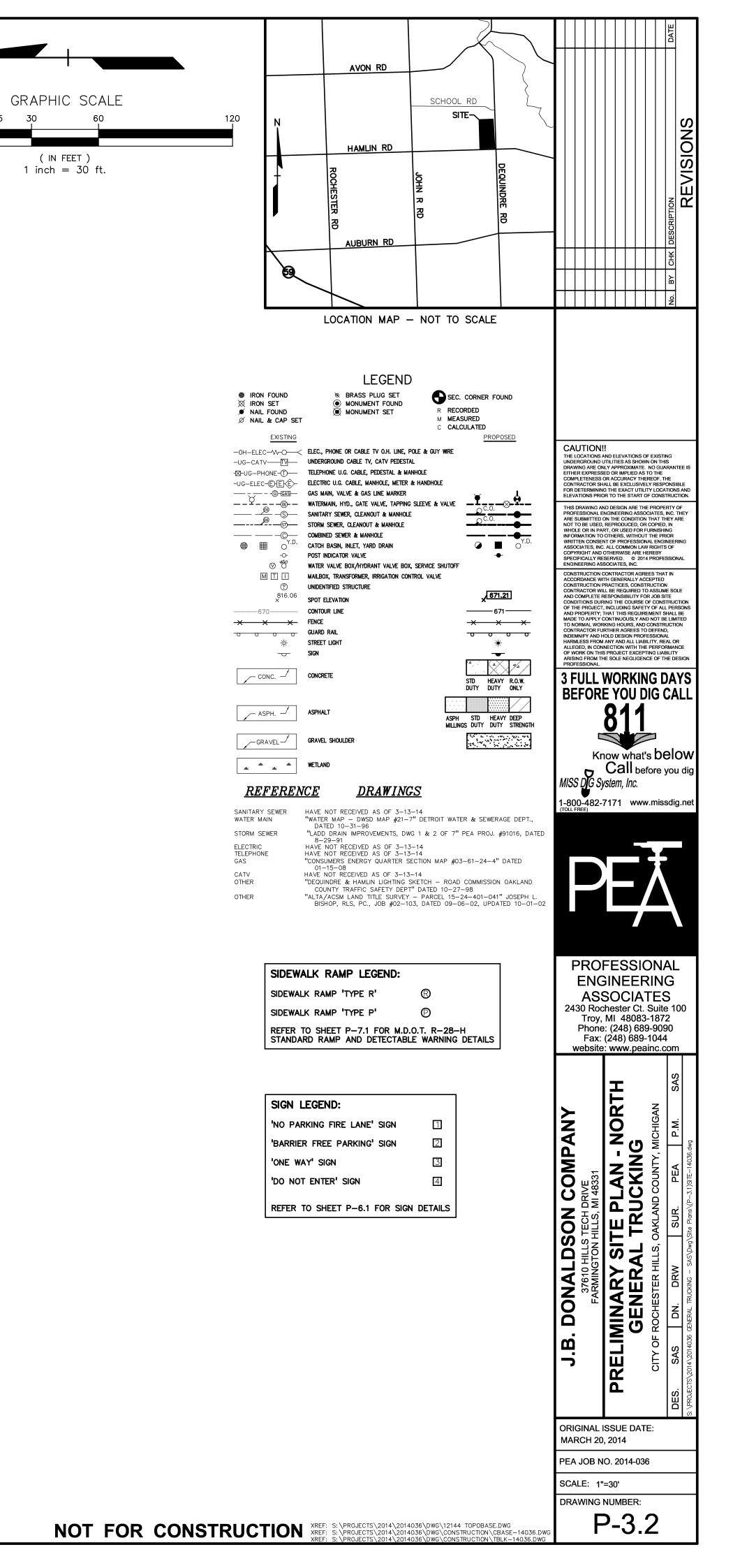
## Figure 7

## **Engineering Site Plan(s) or Site Plan(s)**









# **TABLES**

## Table 1

## Summary of Costs for Eligible Activities

	Total Estimated	Eligible	
Item/Activity	Activity Project	-	Comments
Baseline Environmental Assessments			
Phase I ESA	\$	2,300	
Phase II ESA/BEA/DDCC	\$	24,000	
Baseline Environmental Assessments Sub-Total	\$	26,300	
Due Care Activities			
Methane Venting Systems	\$	15,000	
Installation of engineered barrier in detention pond	\$	10,000	
Building Vapor Barrier Design, Installation and Post-Install Operation and Maintenance and Verification Testing	\$	119,400	
Storm Corridor Migration Barrier and Water and Sanitary Slurry Walls	\$	20,000	
Due Care Activities Sub-Total	\$	164,400	
Additional Response Activities			
Transport and disposal of contaminated soils at building footings and utility runs (approximately \$7,655 yards)	\$	200,280	
Geo-Grid	\$	56,250	
Lift Stations	\$	20,000	
Helical Piers and Grade Beam System	\$	207,500	
Due Care Activities Sub-Total	\$	484,030	
Preparation of Brownfield Plan and Act 381 Workplan			
Brownfield Plan and Act 381 Work Plan*	\$	20,000	
Brownfield Plan and Act 381 Work Plan Sub-Total	\$	20,000	
Project Sub Totals	\$	694,730	
15% Contingency*	\$	64,843	Excludes cost of Brownfield Plan and Baseline Environmental Assessments
TIF Capture for Local Site Remediation Revolving Fund	\$	216,143	3% each year of annual tax capture, plus five years following reimbursement of the applicant
RHBRA Administrative Fees	\$	52,169	5% of taxes captured for developer reimbursement
Total Cost of Eligible Activities to be Funded through TIF	\$	1,027,885	

## Table 2

Tax Capture/ Reimbursement Schedule(s)

Current Taxable Value 70-15-24-401-041		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2025	2026	2027	2028	2029
		\$ 13,110	\$ 13,110	\$ 13,110	\$ 13,110	\$ 13,110	\$ 13,110	) \$ 13,110	) \$ 13,110	) \$ 13,11	0 \$ 13,110	\$ 13,110	\$ 13,110	\$ 13,110	\$ 13,110	\$ 13,110	\$ 13,110	
stimated New Taxable Value (estimated increase of 1%/year)		+ ,	\$ 800,000	\$ 800,000	\$ 808,000	\$ 816,080	\$ 824,241		. ,	. ,	. ,	\$ 866,285	. ,	. ,	. ,	\$ 901,460	\$ 910,475	
ncremental Difference (New Taxes-Existing)			\$ 786,890	\$ 786,890	\$ 794,890	\$ 802,970	. ,	. ,		. ,	6 \$ 844,598		\$ 861,838	. ,		\$ 888,350	\$ 897,365	
.ocal Taxes - Millage																		
County Operating	4.19		\$ 3,297	\$ 3,297	\$ 3,331	\$ 3,364	\$ 3.399	9 \$ 3.43	3 \$ 3.468	3 \$ 3.50	3 \$ 3,539	\$ 3,575	\$ 3.611	\$ 3.648	\$ 3,685	\$ 3,722	\$ 3,760	\$ 3,798
DAK INT SD	3.3690		\$ 2,651	\$ 2,651	\$ 2.678	\$ 2,705	\$ 2.733	+ -,	· · · · · · · · · · · · · · · · · · ·	+ -,				\$ 2.933	. ,	\$ 2,993	\$ 3.023	\$ 3,054
DCC	1.5844		\$ 1,247	\$ 1,247	\$ 1.259	\$ 1,272	+ ,	+ _, _	, ,	\$ 1,32	1 )-	\$ 1,352	, ,	+ _,===	\$ 1.393	\$ 1.408	\$ 1,422	\$ 1,436
County PK & REC	0.2415		\$ 1,247	\$ 190	\$ 1,233	\$ 194	\$ 196	, ,	1	) \$ 201.9			. ,	+ ,	÷ ,	\$ 214.54	. ,	\$ 218.91
ICMA			-	•	\$ 192 \$ 171	•												
	0.2146		\$ 169 \$ 7.250	\$ 169 \$ 7.250	+	+	-	•				\$ 183 \$ 7.070			\$ 189 \$ 9.215	\$ 191 ¢ 9.209	\$ 193 ¢ 9.292	\$ 195
City Millages	9.3412		\$ 7,350	\$ 7,350	\$ 7,425	\$ 7,501	\$ 7,577	. ,	· ,	. ,	. ,	. ,	. ,	\$ 8,132	. ,	\$ 8,298	\$ 8,382	\$ 8,468
otal Local Taxes (capturable)	18.9407		\$ 14,904	\$ 14,904	\$ 15,056	\$ 15,209	\$ 15,363	3 \$ 15,520	) \$ 15,677	\$ 15,83	6 \$ 15,997	\$ 16,160	\$ 16,324	\$ 16,490	\$ 16,657	\$ 16,826	\$ 16,997	\$ 17,169
School Taxes																		
School Operating	18.0000		\$ 14,164	\$ 14,164	\$ 14,308	\$ 14,453	\$ 14,600	) \$ 14,749	) \$ 14,899	9 \$ 15,05	0 \$ 15,203	\$ 15,357	\$ 15,513	\$ 15,671	\$ 15,830	\$ 15,990	\$ 16,153	\$ 16,316
BET	3.0000		\$ 2,361	\$ 2,361	\$ 2,385	\$ 2,409	\$ 2,433	3 \$ 2,458	3 \$ 2,483	3 \$ 2,50	8 \$ 2,534	\$ 2,560	\$ 2,586	\$ 2,612	\$ 2,638	\$ 2,665	\$ 2,692	\$ 2,719
otal School Taxes	21.0000		\$ 16,525	\$ 16,525	\$ 16,693	\$ 16,862	\$ 17,034	\$ 17,207	\$ 17,382	2 \$ 17,55	8 \$ 17,737	\$ 17,917	\$ 18,099	\$ 18,282	\$ 18,468	\$ 18,655	\$ 18,845	\$ 19,036
otal Capturable Millages	39.9407		\$ 31,429	\$ 31,429	\$ 31,748	\$ 32,071	\$ 32,397	7 \$ 32,720	i \$ 33,059	9 \$ 33,39	5 \$ 33,734	\$ 34,076	\$ 34,422	\$ 34,772	\$ 35,125	\$ 35,481	\$ 35,841	\$ 36,205
Ion-Capturable Millages																		
School Debt Service	6.7000		\$ 5.272	\$ 5,272	\$ 5,326	\$ 5,380	\$ 5.435	5 \$ 5.490	) \$ 5.546	5 \$ 5.60	2 \$ 5.659	\$ 5,716	\$ 5774	\$ 5.833	\$ 5.892	\$ 5,952	\$ 6.012	\$ 6,073
City Bond Debt	0.3648		\$ 287	\$ 287	\$ 290	\$ 293	\$ 296	, ,	÷ ;;;;;;	φ 0,00	+ -,	+ -,	\$ 314	÷ 0,000	+ 0,001	\$ 324	\$ 327	\$ 331
ioo Authority	0.1000		\$ 207 \$ 79		\$ 230 \$ 79	\$ 233 \$ 80	\$ 81						1	1		\$ 324 \$ 89	\$ <u>90</u>	\$ 91
							φ Ο.					φ 00 ¢ 171				φ 09 ¢ 170		
urt Institute	0.2000		\$ 157	\$ 157	\$ 159	\$ 161	\$ 162		l \$ 160		+	<ul><li>φ</li><li>1/1</li></ul>	\$ 172		\$ 176		\$ 179	\$ 181
otal Non-Capturable Millages	7.3648		\$ 5,795	\$ 5,795	\$ 5,854	\$ 5,914	\$ 5,974	\$ 6,03	5 \$ 6,096	6,15	8 \$ 6,220	\$ 6,283	\$ 6,347	\$ 6,412	\$ 6,477	\$ 6,543	\$ 6,609	\$ 6,676
otal Capturable and Non-Capturable Millages	47.3055		\$ 37,224	\$ 37,224	\$ 37,603	\$ 37,985	\$ 38,371	l \$ 38,76 <sup>-</sup>	\$ 39,155	5 \$ 39,55	2 \$ 39,954	\$ 40,360	\$ 40,770	\$ 41,184	\$ 41,602	\$ 42,024	\$ 42,450	\$ 42,881
Annual Incremental Local Taxes			\$ 14,904	\$ 14,904	\$ 15.056	\$ 15.209	\$ 15.363	3 \$ 15,520	) \$ 15.67	7 \$ 15.83	6 \$ 15.997	\$ 16.160	\$ 16.324	\$ 16.490	\$ 16.657	\$ 16.826	\$ 16.997	\$ 17,169
Annual Incremental School Taxes			\$ 16,525	<b>₽ ) = =</b>	· · · · · ·	+ - ,	+ - )	+ - ) -	<b>₽</b> = <b>)</b> =	÷ ; ; = ;	8 \$ 17,737	+ - )	<b>₽</b> = <b>)</b> =	+ -,	+ -)	\$ 18,655	\$ 18,845	+ ,
HBRA Administrative Fee (5% of captured taxes)			\$ 1.571	\$ 1.571	, ,	\$ 1.604	\$ 1.620	. ,		. ,		\$ 1.704		. ,		\$ 1.774	\$ 1,792	\$ 1,810
Annual Incremental Local Taxes (after Admin Fee)			\$ 13.333	ψ 1,371 ¢ 12,222	φ 1,307 ¢ 12,469	\$ 1,004 \$ 12,605	¢ 12.744	1 \$ 13.88		) y 1,07	υ φ 1,007 7 ¢ 1/211	\$ 1,704 \$ 14,456	φ 1,721 ¢ 14,602	¢ 17751	\$ 1,750 \$ 14,001	φ 1,774 ¢ 15.052	φ 1,792 ¢ 15,205	\$ 15,359
· · ·			\$ 29,857	\$ 13,333	\$ 13,400	\$ 30,468	\$ 30.777	• • • • • • • • •	φ · .,•=	+ J 14,10	7	\$ 14,450	\$ 14,003	\$ 33.033	\$ 33,369	\$ 33,707	\$ 15,205	\$ 34,395
Annual Combined Taxes for Capture After Admin. Fees Fotal Cumulative Incremental Taxes After Admin. Fees (School and Loca	al)		+ - /	. ,	\$ 30,161 <b>\$ 89,876</b>	. ,	+,	+ - /	· · · / - ·	+ - ,	<b>2 \$ 277,389</b>	+ - /	· · / ·	+ ,	+,	+, -	. ,	. ,
ocal Site Remediation Revolving Fund Capture*																		
IDEQ School Taxes			\$ 496	\$ 496	\$ 501	\$ 506	\$ 511	I\$ 510	6 \$ 52 <sup>-</sup>	I\$52	7 \$ 532	\$ 538	\$ 543	\$ 548	\$ 554	\$ 560	\$ 565	\$ 571
				-									•		•	+	·	•
ocal Taxes			\$ 400						-		5 \$ 429					\$ 452	\$ 456	
otal			\$ 896	\$ 896	\$ 905	\$ 914	\$ 923	3 \$ 933	8 \$ 942	2 \$ 95	2 \$ 961	\$ 971	\$ 981	\$ 991	\$ 1,001	\$ 1,011	\$ 1,021	\$ 1,032
IDEQ Environmental Reimbursed Expenses			•	• • •	• • •	•	•					•	•	•	•	•	•	•
IDEQ School Taxes			\$ 16,029	. ,	\$ 16,192	. ,	\$ 16,523	, ,	. ,	. ,	1 \$ 17,204	. ,	. ,	. ,	. ,	+ - )	\$ 18,279	,
ocal Taxes (following Administrative Fee)			\$ 12,933	\$ 12,933	\$ 13,064	\$ 13,197	\$ 13,331	I \$ 13,467	<b>'</b> \$ 13,604	\$ 13,74	2 \$ 13,881	\$ 14,022	\$ 14,165	\$ 14,308	\$ 14,454	\$ 14,600	\$ 14,749	\$ 14,898
Unreimbursed Eligible Expenses		\$ 759,573	\$ 730,611	\$ 701,649	\$ 672,393	\$ 642,840	\$ 612,986	5 \$ 582,82	\$ \$ 552,36	5 \$ 521,59	1 \$ 490,506	\$ 459,104	\$ 427,384	\$ 395,342	\$ 362,974	\$ 330,278	\$ 297,250	\$ 263,887
Mile from SET to State Brownfield Fund	2 0000		¢ 0.004	¢ 0.004	¢ 0.005	¢ 0.400	¢ 0.400					¢ 0.500	¢ 0.500	¢ 0.040	¢ 0.000	¢ 0.005	¢ 0.000	¢ 0.740
Mils from SET to State Brownfield Fund	3.0000		\$ 2,361	ə 2,361	ə 2,385	<b>⊅ ∠,40</b> 9	ə 2,433	o <b>⊅</b> 2,458	<b>⇒</b> ⇒ 2,483	эр 2,50	8 \$ 2,534	<b>⊅ ∠,</b> 560	<b>⊅ ∠,58</b> 6	\$ 2,612	<b>⊅ 2,638</b>	⊅ ∠,005	\$ 2,692	<b>Φ 2,/19</b>

Tax F					
School Tax	53%				
Local Tax	47%				

MDEQ Eligible activity school/local									
	School	Local	Total						
MDEQ	\$419,815	\$339,758	\$ 759,573						

		2030	2031	2032	2033	2034	2035	2036	2037	2038	20	)39	2040	2041	2042	
Current Taxable Value 70-15-24-401-041		\$ 13,110	\$ 13,110		\$ 13,110	\$ 13,110	\$ 13,110	\$ 13,110	\$ 13,110	\$ 13,1		13,110 \$	<b>2040</b> 5 13,110	\$ 13,110	\$ 13,110	
Estimated New Taxable Value (estimated increase of 1%/year)		\$ 928,775			\$ 956,918		\$ 976,152	\$ 985,914	\$ 995,773	. ,		15,788 \$	-	\$ 1,036,205	\$ 1,046,567	
Incremental Difference (New Taxes-Existing)		\$ 915,665	. ,	. ,	. ,	. ,	\$ 963,042	\$ 972,804	\$ 982,663	\$ 992,62	, ,	02,678 \$			\$ 1,033,457	
incremental Direcence (New Taxes-Existing)		ψ 310,000	ψ 524,555	ψ 554,554	ψ 343,000	ψ 333,577	ψ 303,042	ψ 372,004	ψ 302,003	ψ 352,0	.υ φ1,υ	02,070 ψ	1,012,000	ψ1,020,030	ψ 1,000,407	
Local Taxes - Millage																
County Operating	4.19	\$ 3,837	\$ 3,876	\$ 3,915	\$ 3,955	\$ 3,995	\$ 4,035	\$ 4,076	\$ 4,117	\$ 4,1	9 \$	4,201 \$	6 4,244	\$ 4,287	\$ 4,330	\$ 109,456
OAK INT SD	3.3690	\$ 3,085	\$ 3,116	\$ 3,148	\$ 3,180	\$ 3,212	\$ 3,244	\$ 3,277	\$ 3,311	\$ 3,34	4 \$	3,378 \$				\$ 88,009
occ	1.5844		\$ 1,465	\$ 1,480	\$ 1,495	\$ 1,511		\$ 1,541	\$ 1,557	\$ 1,5		1,589 \$		\$ 1,621		
County PK & REC	0.2415	\$ 221.13	\$ 223.38	\$ 225.64	. ,	. ,	\$ 232.57	\$ 234.93			-	242.15 \$				
НСМА	0.2146	•	\$ 198		\$ 203	\$ 205	\$ 207	\$ 209	\$ 211	\$ 2		215 \$		\$ 220	\$ 222	\$ 5,606
City Millages	9.3412		•		•	•	\$ 8,996	\$ 9,087	\$ 9,179			9,366 \$		\$ 9,557	\$ 9,654	
Total Local Taxes (capturable)	18.9407	\$ 17,343	. ,	\$ 17,697	. ,		. ,	\$ 18,426	. ,			18,991 \$	5 19,184	\$ 19,378		
		. ,			. ,	. ,	. ,		. ,	. ,	·	, .		. ,	. ,	. ,
School Taxes																
School Operating	18.0000	\$ 16,482	\$ 16,649	\$ 16,818	\$ 16,989	\$ 17,161	\$ 17,335	\$ 17,510	\$ 17,688	\$ 17,8	7 \$	18,048 \$	5 18,231	\$ 18,416	\$ 18,602	\$ 470,216
SET	3.0000	\$ 2,747	\$ 2,775	\$ 2,803	\$ 2,831	\$ 2,860	\$ 2,889	\$ 2,918	\$ 2,948	\$ 2,9	8\$	3,008 \$	3,039	\$ 3,069	\$ 3,100	\$ 78,369
Total School Taxes	21.0000	\$ 19,229	\$ 19,424	\$ 19,621	\$ 19,820	\$ 20,021	\$ 20,224	\$ 20,429	\$ 20,636	\$ 20,84	5 \$	21,056 \$	5 21,270	\$ 21,485	\$ 21,703	\$ 548,585
Total Capturable Millages	39.9407	\$ 36,572	\$ 36,943	\$ 37,318	\$ 37,696	\$ 38,079	\$ 38,465	\$ 38,854	\$ 39,248	\$ 39,64	6\$	40,048 \$	6 40,453	\$ 40,863	\$ 41,277	\$ 1,043,374
Non Conturable Millegee																
Non-Capturable Millages	0 7000	¢ 0.405	¢ 0.407	¢ 0.000	¢ 0.004	¢ 0.000	¢ 0.450	Ф 0 <b>Г</b> 4 0	¢ с го 4	¢ 0.0	A (P)	0.740 0	0.700	ф орг	¢ 0.004	¢ 475.005
School Debt Service	6.7000	. ,	. ,	Ŧ J	\$ 6,324	\$ 6,388	\$ 6,452	\$ 6,518	. ,	\$ 6,6		6,718 \$		\$ 6,855		
City Bond Debt	0.3648				\$ 344	\$ 348		\$ 355	\$ 358		2 \$	366 \$				\$ 9,530
Zoo Authority	0.1000					\$ 95	\$ 96	\$ 97	\$ 98		9 \$	100 \$				\$ 2,612
Art Institute	0.2000						\$ 193	\$ 195	\$ 197		9 \$	201 \$	S 203			\$ 5,225
Total Non-Capturable Millages	7.3648	\$ 6,744	\$ 6,812	\$ 6,881	\$ 6,951	\$ 7,021	\$ 7,093	\$ 7,165	\$ 7,237	\$ 7,3	0\$	7,385 \$	5 7,459	\$ 7,535	\$ 7,611	\$ 192,391
Tatal Canturable and Nam Canturable Millanas	47.0055	¢ 40.040		¢ 44400	Ф 44 04 <del>7</del>	¢ 45 400	ф <u>А</u> Г Г Г 7	¢ 40.040	¢ 40.405	¢ 40.0	с <b>ф</b>	47 400 0	47.040	¢ 40.000	¢ 40.000	¢ 4 005 700
Total Capturable and Non-Capturable Millages	47.3055	\$ 43,316	\$ 43,755	\$ 44,199	\$ 44,647	\$ 45,100	\$ 45,557	\$ 46,019	\$ 46,485	<b>\$</b> 46,9	6\$	47,432 \$	6 47,913	\$ 48,398	\$ 48,888	\$ 1,235,766
Annual Incremental Local Taxes		\$ 17.343	\$ 17.519	\$ 17.697	\$ 17.876	\$ 18.058	\$ 18.241	\$ 18,426	\$ 18,612	\$ 18,8	1 \$	18,991 \$	5 19,184	\$ 19,378	\$ 19,574	\$ 494,790
Annual Incremental School Taxes		\$ 19,229	\$ 19,424	\$ 19,621	\$ 19,820		\$ 20,224	\$ 20,429	. ,			21,056 \$				
RHBRA Administrative Fee (5% of captured taxes)		\$ 1,829	\$ 1,847	. ,	. ,	-	\$ 1,923	\$ 1,943	\$ 1,962	. ,		2,002 \$				
Annual Incremental Local Taxes (after Admin Fee)		\$ 15,515	,	. ,	\$ 15.992	\$ 16,154	\$ 16,317	\$ 16.483	\$ 16,650	. ,		16,989 \$		\$ 17,335		
Annual Combined Taxes for Capture After Admin. Fees		\$ 34,744	+	. ,	+ - /	. ,	\$ 36,541	\$ 36,912	\$ 37,286	, ,		38,045 \$		\$ 38,820		
Total Cumulative Incremental Taxes After Admin. Fees (School and Loc	al)	\$ 545,760		. ,	. ,	\$ 688,294	• •	\$ 761,747	. ,	• • •		74,742 \$		\$ 951,993	\$ 991,206	• ••••,=••
		,,	· · · · · · · · · · · ·	,,	· · · / ·	· · · · · · · ·	, ,	· · /	, ,	· · · · · · · · · · · · · · · · · · ·	• -	, ,		• - • •	• ,	
Local Site Remediation Revolving Fund Capture*																
MDEQ School Taxes		\$ 577	\$ 583	\$ 589	\$ 595	\$ 601	\$ 607	\$ 613	\$ 619	\$ 20,84	5\$	21,056 \$	S 21,270	\$ 21,485	\$ 21,703	\$ 119,625
Local Taxes		\$ 465	\$ 470	\$ 475	\$ 480	\$ 485	\$ 490	\$ 494	\$ 499	\$ 16,8	9 \$	16,989 \$	5 17,161	\$ 17,335	\$ 17,511	\$ 96,519
Total		\$ 1,042	\$ 1,053	\$ 1,064	\$ 1,074	\$ 1,085	\$ 1,096	\$ 1,107	\$ 1,119	\$ 37,6	4 \$	38,045 \$	38,431	\$ 38,820	\$ 39,213	\$ 216,144
MDEQ Environmental Reimbursed Expenses			<b>.</b> .		<b>•</b> .	•	•	•	<b>.</b> .							
MDEQ School Taxes		\$ 18,652	. ,	\$ 19,032	. ,	. ,	÷ - ) -	\$ 19,816	. ,							\$ 419,815
Local Taxes (following Administrative Fee)		\$ 15,049		\$ 15,356		-	\$ 15,828	\$ 15,988								\$ 339,758
Unreimbursed Eligible Expenses		\$ 230,186	\$ 196,143	\$ 161,754	\$ 127,017	\$ 91,928	\$ 56,483	\$ 20,678	\$-							\$ 759,573
3 Mils from SET to State Brownfield Fund	3.0000	\$ 2,747	\$ 2,775	\$ 2,803	\$ 2,831	\$ 2,860	\$ 2,889	\$ 2,918	\$ 2,948	\$ 20	8\$	3,008 \$	3,039	\$ 3,069	\$ 3,100	\$ 78,369
3 Mils from SET to State Brownneid Fund	3.0000	φ 2,141	<b>Φ 2,115</b>	<b>ֆ 2,003</b>	φ 2,031	<b>ֆ 2,000</b>	φ 2,009	φ 2,910	<b>Ф 2,940</b>	φ 2,9	οφ	3,000 \$	5 3,039	φ 3,009	\$ 3,100	φ 70,309
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													DEQ/School		<b>5</b> 5%	1
													ocal	\$ 96,519	45%	
							24 Years F	stimated Reir	nhursement				otal	\$ 216,144	100%	
							2-T I GAIS E			J				Ψ 210,144	10070	J

# ATTACHMENTS

## **Attachment A**

# **Resolution(s) Approving** (To be developed and provided to State following approval of local plan)

## **Attachment B**

## **Development Reimbursement Agreement** (To be developed and provided to State following approval of local plan)

## Attachment C

### **Report on Geotechnical Investigation**

**Report of Geotechnical Investigation** 

### Proposed Industrial Development Hamlin Road and Dequindre Road Rochester Hills, Michigan

**Prepared for:** 

J.B. Donaldson Company, Inc. 37720 Hills Tech Drive Farmington Hills, Michigan 48331

> G2 Project No. 130460 June 12, 2013



June 12, 2013

Mr. Mike Fellows JB Donaldson Company 37720 Hills Tech Drive Farmington Hills, Michigan 48331

RE: Report of Geotechnical Investigation Proposed Industrial Development Hamlin Road and Dequindre Road Rochester Hills, Michigan 48118 G2 Project No. 130460

Dear Mr. Fellows,

We have completed the geotechnical investigation for the proposed industrial development located at the northwest corner of Hamlin Road and Dequindre Road in Rochester Hills, Michigan. This report presents the results of our observations and analysis and our recommendations for earthwork operations, foundation and pavement design, and construction considerations as they relate to the geotechnical conditions on site.

We appreciate the opportunity to be of service to JB Donaldson Company, Inc and look forward to discussing the recommendations presented. In the meantime, if you have any questions regarding our report or any other matter pertaining to the project, please contact us.

Sincerely,

G2 Consulting Group, LLC

Michael L. Evans, E.I.T. Project Engineer

Jason B. Stoops, P.E. Project Manager

MLE/JMC/BJW/ljv

Enclosures

Geotechnical & Geoenvironmental Engineering Services 1866 Woodslee Street Troy, Michigan 48083 248.680.0400 FAX 248.680.9745

Noel J. Hargrave-Thomas, P.E. Principal



#### **EXECUTIVE SUMMARY**

The proposed project consists of constructing an industrial development at the northwest corner of Hamlin Road and Dequindre Road in Rochester Hills, Michigan. The proposed building will be a single-story slabon-grade steel framed structure with an approximate building footprint of 30,000 square feet. New access drives, parking lots, and truck parking areas will also be constructed in conjunction with the project. Also, a detention pond will be constructed within the north end of the site.

Approximately 6 to 12 inches of silty clay topsoil are present at the ground surface of borings B-1 through B-4. Approximately 9 to 14 inches of crushed concrete is present at the ground surface of borings B-5 through B-7. Fill soils, consisting of medium to hard silty clay and very loose to medium compact silty sand, sand, and clayey sand, underlies the topsoil and crushed concrete. The fill soils extend to depths ranging from 21 to 27 feet below the ground surface within borings B-1 through B-3. Within borings B-4 through B-7 the fill soils extend to the explored depths ranging from 10 to 15 feet below the ground surface. Native medium compact to compact silty sand underlies the fill soils within borings B-1 through B-3 and extends to the explored depths ranging from 35 to 40 feet. Groundwater was encountered at depths ranging from 10 inches to 21 feet within each of the borings during drilling operations. Upon completion of the drilling operations, groundwater was observed at 14 inches within boring B-6 and 4 feet within boring B-7. No ground water was observed within borings B-1 through B-5 upon completion of the drilling operations.

The existing fill soils are not suitable for support of the foundations and marginally suitable for support of floor slabs provided grades are not raised more then 1 foot. Removal of the unsuitable fill soils is considered cost prohibitive based on the depths of the material.

We recommend the proposed structure be supported on a deep foundation system. Based on our analysis of the existing soil conditions and the anticipated structural loads, we recommend the structure be supported on 10-inch nominal diameter driven timber pile. We performed static pile analyses for a 10-inch nominal diameter timber pile bearing at a depth of 40 feet approximately 13 feet into the native silty sand soils. Based on the static pile analyses, we anticipate a pile capacity of 40 kips.

Once the pile driving operations are complete, grade beams and/or pier caps will be required to transfer the building loads to the foundation system. Exterior grade beams and pier caps must extend to a minimum depth of 3-1/2 feet below finished grade for protection from frost penetration.

Provided some floor slab settlement can be tolerated and grades will not be raised by more then 1 foot, the existing soils may be left in place for support of the floor slab following satisfactory completion of proof-rolling operations as described in the site preparation section of this report. If floor slab settlement cannot be tolerated, a structural floor slab will be required. Floor slabs supported by the existing fill may be designed using a subgrade modulus of up to 90 pci.

This summary is not to be considered separate from the entire text of this report, with all the conclusions and qualifications mentioned herein. Details of our analysis and recommendations are discussed in the following sections and in the Appendix of this report.



#### **PROJECT DISCRIPTION**

The proposed project consists of constructing an industrial development at the northwest corner of Hamlin Road and Dequindre Road in Rochester Hills, Michigan. The proposed building will be a single-story slab-on-grade steel framed structure with an approximate building footprint of 30,000 square feet. New access drives, parking lots, and truck parking areas will also be constructed in conjunction with the project. Also, a detention pond will be constructed within the north end of the site.

At the time of our investigation, actual building loads were not available. We anticipate single column loads will range from 100 to 200 kips and wall loads will range from 3 to 5 kips per linear foot. In addition, the proposed finished floor and final site grades were not available; however, we anticipate that the finished floor elevation will be at or near the existing site grades. When proposed loading conditions and finished grades have been determined, G2 Consulting Group, LLC (G2) should be notified so that we may review the recommendations presented within this report.

#### **SCOPE OF SERVICES**

The field operations, laboratory testing, and engineering report preparation were performed under the direction and supervision of a licensed professional engineer. Our services were performed according to generally accepted standards and procedures in the practice of geotechnical engineering. Our scope of services for this project is as follows:

- We drilled a total of seven (7) soil borings. Borings B-1 through B-3 were located within the footprint of the proposed building. The building borings were supposed to extend to a depth of 20 feet; however, unsuitable fill soils were encountered to the proposed depths. Therefore, borings B-1 and B-2 extended to a depth of 35 feet below the existing grade. Boring B-3 extended to a depth of 40 feet below the existing grade. Borings B-4 through B-6 were located within the proposed truck parking areas and extended to a depth of 10 feet below the existing grade. Boring B-7 was located within the proposed detention basin and extended to a depth of 15 feet below the existing grade.
- 2. We performed laboratory testing on representative samples obtained from the soil borings. Laboratory testing included visual engineering classification, natural moisture content, organic matter content (loss-on-ignition), and unconfined compressive strength determinations.
- 3. We prepared this engineering report. Our report includes recommendations regarding the foundation type suitable for the soil conditions encountered, allowable bearing capacity of the anticipated bearing soil layer, estimated settlement, floor slab and pavement recommendations, and construction considerations related to the geotechnical conditions at the site.

#### **FIELD OPERATIONS**

JB Donaldson Company, Inc., in conjunction with G2, selected the number, depth, and location of the soil borings based on the proposed building location. The soil boring locations were determined in the field by measuring from existing site features using conventional taping methods and staked by a representative of G2 prior to drilling operations. The drilling contractor encountered auger refusal within boring B-7 at a depth of 8-1/2 feet below the ground surface; therefore, the boring location was offset 20



feet to the east. The approximate soil boring locations are shown on the Soil Boring Location Plan, Plate No. 1. Ground surface elevations were not available at the time of this report.

The soil borings were drilled using a truck-mounted rotary drilling rig and an ATV drilling rig. Continuous-flight, 2-1/4 inch, inside diameter, hollow-stem augers were used to advance the boreholes to the explored depths. Within each soil boring, soil samples were obtained at intervals of 2-1/2 feet within the upper 10 feet and at intervals of 5 feet below a depth of 10 feet. Soil samples were obtained by the Standard Penetration Test method (ASTM D 1586), which involves driving a 2-inch diameter split-spoon sampler into the soil with a 140-pound weight falling 30 inches. The sampler is generally driven three successive 6-inch increments with the number of blows for each increment recorded. The number of blows required to advance the sampler the last 12 inches is termed the Standard Penetration Resistance (N). Blow counts for each 6-inch increment and the resulting N-values are presented on the individual soil boring logs.

The soil samples were placed in sealed containers in the field and brought to our laboratory for testing and classification. During the field operations, the drilling crew maintained logs of the encountered subsurface conditions, including changes in stratigraphy and observed groundwater levels. The final boring logs are based on the field logs supplemented by laboratory soil classification and test results. After completion of drilling operations, the boreholes were backfilled with excavated material.

#### LABORATORY TESTING

Representative soil samples were subjected to laboratory testing to determine soil parameters pertinent for foundation design, slab-on-grade design, pavement design, and site preparation. An experienced geotechnical engineer classified the samples in general conformance with the Unified Soil Classification System.

Laboratory testing included natural moisture content, organic matter content (loss-on-ignition), and unconfined compressive strength determinations. The organic matter content of representative samples was determined in accordance with ASTM Test Method D 2974, "Standard Test Methods for Moisture, Ash, and Organic Matter of Peat and Other Organic Soils". The unconfined compressive strengths were determined by using a spring loaded hand penetrometer. The hand penetrometer estimates the unconfined compressive strength to a maximum of 4-1/2 tons per square foot (tsf) by measuring the resistance of the soil sample to the penetration of a calibrated spring loaded cylinder.

The results of the moisture content, organic matter content, and unconfined compressive strength tests are indicated on the soil boring logs at the depths the samples were obtained. We will hold the soil samples for 60 days from the date of this report. If you would like us to retain the samples beyond this date, or you would like the samples, please let us know.

#### SITE CONDITIONS

The proposed site is located at the northwest corner of Hamlin Road and Dequindre Road in Rochester Hills, Michigan. The site is generally open and covered with grass, shrubs, trees, and miscellaneous concrete and asphalt debris. Ground surface elevations were not available at the time of this investigation; however, the site appears to be relatively flat. The surrounding properties are generally



commercial in nature. A landfill bounds the property to the west. Hamlin Road bounds the property to the south while Dequindre Road bounds the property to the east.

#### SOIL CONDITIONS

Approximately 6 to 12 inches of silty clay topsoil are present at the ground surface of borings B-1 through B-4. Approximately 9 to 14 inches of crushed concrete is present at the ground surface of borings B-5 through B-7. Fill soils, consisting of silty clay, silty sand, sand, and clayey sand with trace organic matter and miscellaneous debris, underlies the topsoil and crushed concrete. The fill soils extend to depths ranging from 21 to 27 feet below the ground surface within borings B-1 through B-3. Within borings B-4 through B-7 the fill soils extend to the explored depths ranging from 10 to 15 feet below the ground surface. Native silty sand underlies the fill soils within borings B-1 through B-3 and extends to the explored depths ranging from 35 to 40 feet.

The cohesive fill in the upper 10 feet is stiff to hard in consistency with moisture contents ranging from 11 to 20 percent, unconfined compressive strengths ranging from 2,000 to 9,000 pounds per square foot, and an organic matter content of 2.8 percent. The cohesive fill below 10 feet within boring B-1 is medium in consistency with moisture contents ranging from 17 to 21 percent, an unconfined compressive strength of 1,000 pounds per square foot, and an organic matter content of 2.5 percent. The granular fill is very loose to medium compact with Standard Penetration N-values ranging from 3 to 22 blows per foot and an organic matter contents ranging from 2.3 to 15.8 percent. The native silty sand is medium compact to compact with Standard Penetration N-values ranging from 17 to 38 blows per foot.

The stratification depths shown on the soil boring logs represent the soil conditions at the boring locations. Variations may occur between borings. Additionally, the stratigraphic lines represent the approximate boundaries between soil types. The transitions may be more gradual than what are shown. We have prepared the boring logs on the basis of laboratory classification and testing as well as field logs of the soils encountered.

The Soil Boring Location Plan, Plate No. 1, and Soil Boring Logs, Figure Nos. 1 through 7, are presented in the Appendix. The soil profiles described above are generalized descriptions of the conditions encountered at the boring locations. General Notes Terminology defining the nomenclature used on the boring logs and elsewhere in this report is presented on Figure No. 8.

#### **GROUNDWATER CONDITIONS**

Groundwater observations were obtained during and upon completion of the drilling operations. Groundwater was encountered at depths ranging from 10 inches to 21 feet within the borings during drilling operations. Upon completion of the drilling operations, groundwater was observed at 14 inches within boring B-6 and 4 feet within boring B-7. No groundwater was observed within borings B-1 through B-5 upon completion of the drilling operations.

Fluctuations in groundwater levels should be anticipated due to seasonal variations and following periods of prolonged precipitation. It should be noted that groundwater observations made during drilling operations in predominantly cohesive soils are not necessarily indicative of the static groundwater level.



This is due to the low permeability of such soils and the tendency of drilling operations to seal off the natural paths of groundwater flow.

#### SITE PREPARATION

The existing fill soils are not suitable for support of the foundations and marginally suitable for support of floor slabs provided grades are not raised more then 1 foot. Removal of the unsuitable fill soils is considered cost prohibitive based on the depths of the material.

We anticipate earthwork operations will consist of removing the vegetation, topsoil, and miscellaneous debris within the proposed building and pavement areas, fine grading to achieve the design subgrade elevation, proof-rolling the subgrade soils, excavating for utilities and foundations, and preparing the subgrade for support of floor slabs and pavements. We recommend all earthwork operations be performed in accordance with comprehensive specifications and be properly monitored in the field by qualified geotechnical engineers and technicians.

At the start of earthwork operations, the existing vegetation, topsoil, and miscellaneous debris should be removed in their entirety. Once the design subgrade elevation has been achieved, the exposed subgrade within the building and pavement areas, anticipated to consist of cohesive and granular fill soils, should be inspected and proof-rolled with a heavy rubber-tired vehicle, such as a loaded single-axle dump truck. The exposed subgrade should be visually evaluated for instability and/or unsuitable soil conditions. Any unstable or unsuitable areas noted should be removed and replaced with engineered fill.

Engineered fill should be free of organic matter, frozen soil, clods, or other harmful material. Engineered fill should be placed in uniform horizontal layers, not more than 9 inches in loose thickness. The engineered fill should be compacted to achieve a density of at least 95 percent of the maximum dry density as determined by the Modified Proctor compaction test (ASTM D 1557). All engineered fill material should be placed and compacted at approximately the optimum moisture content. Frozen material should not be used as fill, nor should fill be placed on a frozen subgrade.

#### FOUNDATION RECOMMENDATIONS

The existing fill soils are not suitable for support of conventional shallow foundations. We recommend the proposed structure be supported on a deep foundation system. Based on anticipated building loads and the existing soil conditions, we recommend the structure be supported on 10-inch nominal diameter driven timber pile. We performed static pile analyses for a 10-inch nominal diameter timber pile bearing at a depth of 40 feet approximately 13 feet into the native silty sand soils. Based on the static pile analyses, we anticipate a pile capacity of 40 kips. Other pile lengths and capacities may be determined after building loading conditions are determined.

Once the pile driving operations are complete, grade beams and/or pier caps will be required to transfer the building loads to the foundation system. Exterior grade beams and pier caps must extend to a minimum depth of 3-1/2 feet below finished grade for protection from frost penetration.

Prior to the installation of the piles, a Wave Equation Analysis for Piles (WEAP) should be performed by a qualified geotechnical engineer to establish the required driving resistance indicative of the design pile



capacity. The WEAP will consider the subsurface conditions, pile section, and contractor selected pile hammer.

If the recommendations outlined in this report are adhered to, total and differential settlements for the completed structure should be within 1 inch and ½ inch, respectively. We expect settlements of these magnitudes are within tolerable limits for the type of structure proposed. We recommend a qualified geotechnical engineer be on site during construction to observe construction operations, soil conditions and verify the adequacy of the soils during pile driving operations.

#### FLOOR SLAB RECOMMENDATIONS

The existing fill soils contain organic matter and were not placed in a controlled manner. Provided some floor slab settlement can be tolerated and grades will not be raised by more then 1 foot, the existing soils may be left in place for support of the floor slab following satisfactory completion of proof-rolling operations as described in the site preparation section of this report. If floor slab settlement cannot be tolerated, a structural floor slab will be required. Floor slabs supported by the existing fill may be designed using a subgrade modulus of up to 90 pci.

We recommend that at least 4 inches of clean coarse sand or pea gravel be placed between the subgrade and the bottom of the floor slab for use as a capillary break to reduce moisture transmission through the concrete floors and to reduce the potential for concrete curling. If moisture sensitive floor coverings are planned or if greater protection against vapor transmission is desired, a vapor barrier consisting of 10 mil plastic sheeting, or equivalent, may be placed on the sand layer beneath floor slabs. The floor slab should be isolated from the foundation system to allow for independent movement.

#### PAVEMENT RECOMMENDATIONS

We understand the pavement areas will include access drives on the east and south sides of the site. A car parking lot will be constructed south of the proposed building with a truck storage lot on the north side of the proposed building. Proposed pavement grades were not available at the time of this report; however, we anticipate the proposed pavement surface will be at similar elevations as the existing grade. We anticipate the existing silty clay and clayey sand fill within the proposed pavement areas will be suitable for support of the proposed pavements. Silty clay and clayey sand fill soils are considered poor for direct support of pavement structures, have poor drainage characteristics, are susceptible to frost heave, and may become unstable under the repeated loading typical of pavement construction operations.

We performed pavement design analyses in accordance with the "AASHTO Guide for Design of Pavement Structures". We understand traffic within the southern parking lot will consist of solely of passenger vehicles. The northern truck storage lot will consist of primarily of semi-trucks and trailers. Based on the anticipated traffic, we have designed a light duty pavement section and a heavy duty pavement section. The light duty pavement section is based on an estimated 50,000 18-kip equivalent single-axle loads (ESALS) over a 20-year design life. The heavy duty pavement section is based on an estimated 150,000 18-kip ESALS. For evaluation purposes, we estimated a serviceability loss of 2.0, a standard deviation of 0.45, a reliability factor of 0.80, and an effective roadbed soil resilient modulus of 7,000 psi. If any actual traffic volume information becomes available, G2 Consulting Group should be notified so we can reevaluate our recommendations.



Based on the results of our analyses, we recommend a minimum pavement design section for the new light duty bituminous pavement section, consisting of 1-1/2 inches of 1100T bituminous concrete wearing course, and 2 inches of 1100L bituminous concrete leveling course supported on a minimum of 8 inches of MDOT 21AA dense-graded aggregate base. We recommend a minimum pavement design section for the new heavy duty bituminous pavement section, consisting of 2 inches of 1100T bituminous concrete wearing course, and 2-1/2 inches of 1100L bituminous concrete leveling course supported on a minimum of 10 inches of MDOT 21AA dense-graded aggregate base. We recommend that a Tensar Triax geo-grid be placed below the MDOT 21AA dense-graded aggregate base atop the subgrade.

All pavement materials are specified within the 2012 Standard Specifications for Construction from the Michigan Department of Transportation. The bituminous pavement materials are described in Section 501 and can be assigned a structural coefficient number of 0.37. Any imported aggregate base course materials was assigned a structural coefficient number of 0.14.

Large front-loading refuse trucks can impose significant concentrated wheel loads within trash dumpster pick-up areas. This type of loading can result in rutting of asphalt pavements and ultimately in failure. Therefore, we recommend reinforced concrete pavement at least 8 inches in thickness be used in these areas. The concrete pad should be large enough to support the entire refuse truck during pick-up operations.

Proper drainage is considered to be an important consideration for pavement design on cohesive soils. We recommend edge drains be provided around the perimeter of any proposed landscaped islands and along curbs, since they can become a source of water infiltration into the pavement subgrade. Such drains should be connected to nearby catch basins. In addition, we recommend finger drains be installed at the catch basin locations. A minimum of four (4) finger drains should extend a minimum of 15 feet outward from each catch basin. The pavement and subgrade should be properly sloped to promote effective surface and subsurface drainage and prevent water from ponding. We also recommend pavement subbase material consist of non-frost-susceptible aggregates.

We recommend catch basins and manholes be placed along curb lines and not in the center of parking areas. This will reduce future pavement rehabilitation costs by allowing pavement overlays without milling the entire pavement area.

Regular timely maintenance should be performed on the bituminous pavement to reduce the potential deterioration associated with moisture infiltration through surface cracks. The owner should be prepared to seal the cracks with a hot-applied elastic crack filler as soon as possible after cracking develops and as often as necessary to block the passage of water to the subgrade soils.

#### **BELOW-GRADE WALL RECOMMENDATIONS**

Below-grade retaining walls in the loading dock areas should be designed to withstand lateral earth pressures due to backfilled soils and adjacent traffic loads. Below-grade walls considered to be fixed at the top should be designed on the basis of at-rest lateral earth pressures corresponding to an equivalent fluid pressure of 55 pounds per square foot per foot of depth for drained backfill soil conditions. Free-standing walls may be designed using an active earth pressure of 35 pounds per square foot per foot of depth for drained backfill soil conditions.



Loading dock wall backfill should consist of MDOT Class II sand to maintain drained conditions. Weep holes, or other drainage measures, should be constructed at the base of any below-grade truck well to allow the backfill behind the wall to drain. This will prevent entrapment of water within the granular backfill behind retaining walls and prevent hydrostatic pressure from building behind the wall. Weep holes should be spaced no greater than every 4 lineal feet of wall and should be located near the base of the wall.

#### **DETENTION POND RECOMMENDATIONS**

We understand a storm water detention pond will be constructed within the norther portion of the proposed site. Proposed site grades were not available at the time of the investigation; however, we anticipate the storm water detention pond will have an approximate maximum depth of 5 feet below existing grades. Soil conditions at the bottom of the anticipated basin depth consist of cohesive fill. These soils are relatively impermeable and will not allow for storm water to drain freely. An outlet structure would have to be constructed within the basin. Otherwise, the existing cohesive soils are highly suitable for the construction of a detention system. We anticipate the cohesive soils would have hydraulic conductivities ranging from  $1.0 \times 10^{-6}$  cm/s to  $1.0 \times 10^{-7}$  cm/s.

#### CONSTRUCTION CONSIDERATIONS

We anticipate utility excavations will extend to depths of 5 to 7 feet below finished grades. Groundwater was encountered at depths ranging from 10 inches to 21 feet within each of the borings during drilling operations. Therefore, significant groundwater accumulations should be anticipated in construction excavations extending below these depths. In addition, caving and/or sloughing of the granular fill soils should be anticipated during excavation operations.

For grade beam, pier cap, and truck dock excavations, we anticipate the groundwater can be controlled with properly constructed sumps and pumps. Water should not be allowed to pond in construction excavations. The contractor should be prepared to over-excavate and form grade beams and pier caps within the granular fill soils. The sides of grade beams and pier caps should be constructed straight and vertical to reduce the risk of frozen soil adhering to the concrete and raising the foundations.

We recommend a maximum slope of 1 horizontal units to 1 vertical unit (1H:1V) for excavations within the stiff to hard cohesive fill soils for excavations that extend below a depth of 5 feet. We recommend a maximum slope of 2 horizontal units to 1 vertical unit (2H:1V) for excavations within the very loose to medium compact granular fill soils for excavations that extend below a depth of 5 feet. All excavations should be safely sheeted, shored, sloped, or braced in accordance with MI-OSHA requirements. If material is stored or equipment is operated near an excavation, lower angle slopes or stronger shoring must be used to resist the extra pressure due to the superimposed loads.

#### **GENERAL COMMENTS**

We have formulated the evaluations and recommendations presented in this report relative to site preparation and foundations on the basis of data provided to us relating to the location, type, and grade for the proposed site. Any significant change in this data should be brought to our attention for review and evaluation with respect to the prevailing subsurface conditions.



The scope of the present investigation was limited to evaluation of subsurface conditions for the support of the building foundation and other related aspects of the development. No chemical, environmental, or hydrogeological testing or analyses were included in the scope of this investigation. If changes occur in the design, location, or concept of the project, the conclusions and recommendations contained in this report are not valid unless G2 Consulting Group, LLC reviews the changes. G2 Consulting Group, LLC will then confirm the recommendations presented herein or make changes in writing.

We have based the analysis and recommendations submitted in this report upon the data from soil borings performed at the approximate locations shown on the Soil Boring Location Plan, Plate No. 1. This report does not reflect variations that may occur between the actual boring locations and the actual structure locations. The nature and extent of any such variations may not become clear until the time of construction. If significant variations then become evident, it may be necessary for us to re-evaluate our report recommendations.

Soil conditions at the site could vary from those generalized on the basis of soil borings made at specific locations. It is, therefore, recommended that G2 Consulting Group, LLC be retained to provide soil engineering services during the site preparation, excavation, and foundation construction phases of the proposed project. This is to observe compliance with the design concepts, specifications, and recommendations. Also, this allows design changes to be made in the event that subsurface conditions differ from those anticipated prior to the start of construction.

#### APPENDIX

Soil Boring Location Plan

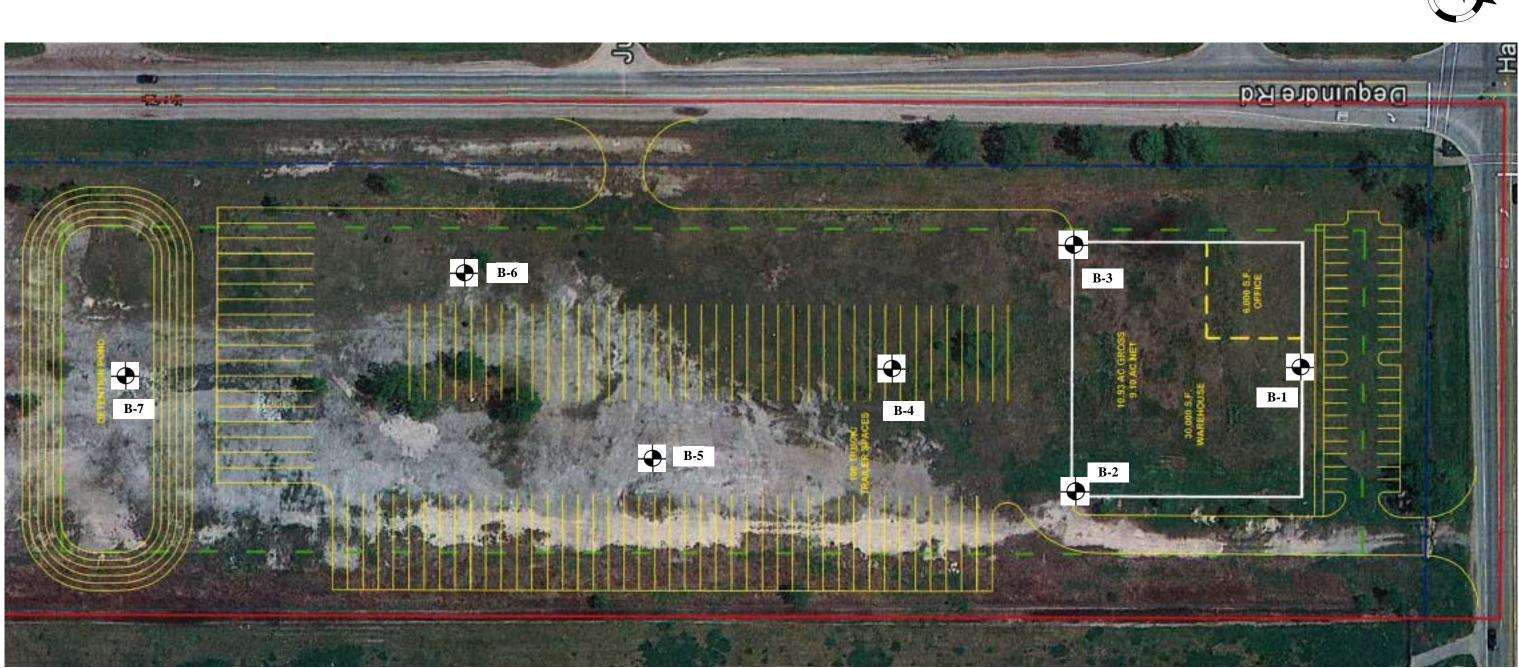
Soil Boring Logs

General Notes

Plate No. 1

Figure Nos. 1 through 7

Figure No. 8



# Legend

• Soil Borings drilled by Strata Drilling, Inc. on May 30, 2013 and June 4, 2013



# **Soil Boring Location Plan**

Proposed Industrial Building Hamlin Road and Dequindre Road Rochester Hills, Michigan

	Project No. 130460				
	Drawn by: MLE				
1866 Woodslee Street	Date: 6/10/13	Plate			
Troy, Michigan 48083	Scale: NTS	No. 1			

·	ct Name: ct Location:	Proposed Industrial Development Hamlin and Dequindre Rochester Hills, Michigan			H.		50	il Boriı	15 1 10.	. <b>₽</b> -1
C2 P	roject No.	· -					$\mathbf{O}$			
	ide: N/A	Longitude: N/A					Cons	sulting Group	, LL¢	
		SUBSURFACE PROFILE				S	OIL SAM	PLE DAT	ΓA	
DEPTH (ft)	PRO- FILE	GROUND SURFACE ELEVATION: N/A		DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/ 6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCON COMP. S (PSF)
		Topsoil: Silty Clay (11 inches)	0.9			3				
· -×			-		S-1	5 8 3	13	11.9		9000
		Fill: Very Stiff to Hard Gray Silty Clay with trace sand and gravel	-	5	S-2	4 6	10	12.4		9000
			8.0		S-3	2 3 5	8	14.2		7000
10			-	10	S-4	3 3 4	7	19.5		2000
		Fill: Medium to Stiff Gray Silty Clay with trace sand, gravel, wood debris, brick fragments, and organic matter (Organic Matter Content @ 15' = 2.5%)	-		S-5	1 2 2	4	21.2		1000
20			21.0	20	S-6	3 3 5	8	17.4		1000
25				25	<u>8-7</u>	5 12 17	29			
		Medium Compact to Compact Brown Silty Sand with trace gravel	-	30	S-8	6 14 24	38			
35			35.0		S-9	7 10 13	23			
• -		End of Boring @ 35ft								
Total D Drilling Inspector	g Date:	35ft June 4, 2013			Level Obs undwater e		l at 21 feet d	luring drilli	ng	
Contrac Driller:	ctor:	Strata Drilling, Inc. B. Sienkiewicz		Notes: Bore * Ca	ehole colla alibrated H	psed at 21 and Penetr	ft after auge ometer	r removal		
Drilling 2-1/4	g Method: inch inside	diameter hollow stem augers		Excava Bore	ation Back ehole back	filling Proc filled with	edure: auger cuttin	gs		
									Fig	gure No

Project Name: Proposed Industrial Development		Æ.	THE REAL	So	il Borir	ng No.	<b>B-2</b>		
Proje	ect Loca	tion: Hamlin and Dequindre Rochester Hills, Michigan				_			
G2 F	Project N	No. 130460				2			
	tude: N/A					Cons	sulting Group,	, LLC	
		SUBSURFACE PROFILE			S	OIL SAMI	PLE DAT	. A	
DEPTH (ft)	PRO- FILE	GROUND SURFACE ELEVATION: N/A	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/ 6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
		Topsoil: Silty Clay (10 inches)       0.8         Fill: Very Stiff Dark Brown Silty Clay with       0.8         trace sand, gravel, occasional sand seams,       0.8         and organic matter content       0.8         (Organic Matter Content = 3.8%)       3.0	 	<u>S-1</u>	4 3 3	6	10.7		7000*
5		(organie mane content corres)	5		$ \begin{array}{c} 2\\ 8\\ 3 \end{array} $	11			
		$\overline{\Delta}$		_	3 8				
		-		<u>S-3</u>	6 2	14			
10			10	S-4	7 5	12	 		
		Fill: Medium Compact Dark Brown and Black Silty Sand with trace gravel, clay, and		-	5				
		wood, glass, and plastic debris (Orgaine Matter Content $@$ 10' = 15.8%)	15	S-5	5 8 3	11			
				-	4				
20			20	S-6	3 12	15			
		24.0			6				
25		24.0	25	S-7	9 11	20			
		Medium Compact Brown Silty Sand with		S-8	7 8 9	17			
		trace gravel		-	7				
35		35.0	35	S-9	9 9	18			
		End of Boring @ 35ft		-					
Drilling Date: June 4, 2013 C				Level Obse undwater e		d at 7 feet du	ring drillin;	g	
Driller: B. Sienkiewicz B		Notes: Bore * Ca		psed at 11 and Penetr	ft after auger rometer	r removal			
Drilling Method: Excava 2-1/4 inch inside diameter hollow stem augers Bore			ation Back	filling Proc filled with	cedure: auger cutting	gs			
				gure No. 2					

SOIL / PAVEMENT BORING 130460.GPJ G2\_CONS.GDT 6/14/13

	Proj	ect Name:	Proposed Industrial Development			C	AN AN AN	So	il Boriı	ng No	<b>B-3</b>
	Proj	ect Location	n: Hamlin and Dequindre Rochester Hills, Michigan			r (				-	
	G2 I	Project No.	130460					2	ulting Group		
	Lati	tude: N/A	Longitude: N/A								
		, , , , , , , , , , , , , , , , , , , ,	SUBSURFACE PROFILE		1		S	OIL SAM			1
	DEPTH (ft)	PRO- FILE	GROUND SURFACE ELEVATION: N/A		DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/ 6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
			Topsoil: Silty Clay (12 inches)	1.0	<u> </u>		4				
			Fill: Very Stiff Dark Brown Silty Clay with trace sand, gravel, occasional sand seams, and plastic debris	3.0		S-1	4 3	7	17.4		4000*
							24				
	5				5	S-2	2	6			
			Fill: Loose to Medium Compact Dark Brown			S-3	3 3 4	7			
			and Black Silty Sand with trace clay, gravel, brick fragments, and wood, glass, and				3				
	10		plastic debris (Organic Matter Content @ $5' = 2.3\%$ )		10	S-4	6 9	15			
				13.0							
							32				
	15				15	S-5	1	3			
							6				
	20		Fill: Very Loose to Loose Dark Brown and Black Silty Sand with trace clay, gravel,		20	S-6	$\begin{bmatrix} 6\\ 6\\ 3 \end{bmatrix}$	9			
			brick fragments, and wood, glass, and plastic debris								
							3 4				
	25				25	S-7	3	7			
				27.0							
							7				
	30				30	S-8	12 14	26			
./13			Medium Compact to Compact Brown Silty Sand with trace gravel								
DT 6/14			Sand with frace graver								
NS.GD							6				
G2_CC	35				35	S-9	13 19	32			
0460.GPJ	Total Drillin	Depth: ng Date:	40ft June 4, 2013			Level Obs undwater e		d at 7-1/2 fee	t during dri	lling	
SOIL / PAVEMENT BORING 130460.GPJ G2_CONS.GDT 6/14/13	Inspec Contra Drille	actor:	Strata Drilling, Inc. B. Sienkiewicz	Notes: Borehole collapsed at 14 ft after auger removal * Calibrated Hand Penetrometer							
'EMENT E	Drillin	ng Method:			Excava	ation Back	filling Proc		75		
- / PAV	2-1/	4 inch insic	le diameter hollow stem augers		DOLO		med with	auger cutting	30		
SOIL										Fig	ure No. 3a

	Proj	ject Name	: Proposed Industrial Development	Soil Borir		ıg No.	<b>B-3</b>				
	Proj	ject Locati	ion: Hamlin and Dequindre Rochester Hills, Michigan								
		-	p. 130460				C		sulting Group,	LLC	
_	Lati	itude: N/A									
_			SUBSURFACE PROFILE					OIL SAM	PLE DAT MOISTURE		INCONT
	DEPTH (ft)	PRO- FILE	GROUND SURFACE ELEVATION: N/A		DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/ 6-INCHES	STD. PEN. RESISTANCE (N)	CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
-	-		Medium Compact to Compact Brown Silty Sand with trace gravel <i>(continued)</i>				7				
	40			40.0	40	S-10	12 15	27			
ŀ	-	_	End of Boring @ 40ft								
_	-	-									
-	45				45						
-	-										
ŀ	-										
-	-	-									
	50				50						
-	-	-									
-	-										
	55				55						
-	-										
-	-	-									
-	60	_			60						
-	-	-									
	-										
-	-	_									
13	65	-			65						
DT 6/14/	-	-									
JD.SNC	-										
G2_C(	70				70						
0460.GPJ	Drilli	Depth: ng Date:	40ft June 4, 2013	Water Level Observation: Groundwater encountered at 7-1/2 feet during drilling							
() ()	Inspec Contra Drille	actor:	Strata Drilling, Inc. B. Sienkiewicz		Notes: Bore * Ca	ehole colla llibrated H	psed at 14 and Penetr	ft after auger ometer	r removal		
VEMEN	Drilling Method: Excavation 2-1/4 inch inside diameter hollow stem augers Borehole		ation Backt	filling Proc filled with	edure: auger cutting	gs					
SOIL / PA	∠ <b>-</b> 1/	r⊣ men ms	nue manierer nonow stenn augers						-	Figu	ure No. 3b

Pro	ject Name:	Proposed Industrial Development			1		So	il Boriı	ng No.	<b>B-4</b>
Pro	ject Location	n: Hamlin and Dequindre Rochester Hills, Michigan			₩¥		_			
G2	Project No.	130460			1		2			
	itude: N/A	Longitude: N/A					Cons	sulting Group	, LL¢	
		SUBSURFACE PROFILE				S	OIL SAM	PLE DAT	ĨA –	
DEPTH (ft)	PRO- FILE	GROUND SURFACE ELEVATION: N/A		DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/ 6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR (PSF)
		Topsoil: Silty Clay (6 inches)	0.5	_		2				
		Fill: Very Stiff Dark Brown Silty Clay with trace sand and gravel	3.0	-	S-1	3 4 3	7	17.8		7000*
- 5		Fill: Medium Compact Black Sand with trace silt, gravel, glass and plastic debris, and organic matter (Organic Matter Content = 5.5%)	-	5	S-2	2 5 15	20			
		Fill: Loose to Medium Compact Dark Brown	6.0	-	S-3	2 11 10	21			
-		Clayey Sand with trace silt, gravel, brick fragments, and wood and plastic debris	-	-	6.4	6 7	10			
- 10	-	End of Boring @ 10ft	10.0		S-4	3	10			
-	-		-	-						
- 15			-	- 15						
_ _ I			-	_						
-	-		-	-						
20	-		-	20						
- L			-	-						
-	-		-	-						
25	-		-	25						
-	-		-	-						
-	-		-	-						
30			-	30						
			-	-						
- 35	-		_	- 35						
Drilli	Depth: ng Date:	10ft June 4, 2013			Level Obs undwater e		1 at 7-1/2 fee	et during dri	lling	
Inspec Contr Drille	actor:	Strata Drilling, Inc. B. Sienkiewicz		Notes: * Ca	alibrated H	and Penetr	ometer			
Drilli	ng Method:	le diameter hollow stem augers		Excava Bore	ation Back ehole back	filling Proc filled with	edure: auger cutting	gs		
2-1)		a analysis nonow stell dugers							Fig	gure No. 4

	Proj	ject Nam	e: Proposed Industrial Development			ten		So	il Boriı	ng No.	<b>B-5</b>
	Proj	ject Loca	tion: Hamlin and Dequindre Rochester Hills, Michigan				-Tµ				
	G2	Project N	No. 130460			1		2			
	Lati	tude: N/A	A Longitude: N/A					Cons	sulting Group	, LLÇ	
			SUBSURFACE PROFILE				S	OIL SAM		A	
	DEPTH (ft)	PRO- FILE	GROUND SURFACE ELEVATION: N/A		DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/ 6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR (PSF)
			Fill: Crushed Concrete (9 inches)	0.8			6				
			Fill: Very Stiff Dark Brown Silty Clay with trace sand, gravel, and occasional sand seams	3.0		S-1	3 4	7	14.3		5000*
							12 6				
			Fill: Medium Compact Dark Brown Sand wtih trace silt and gravel		5	<u>S-2</u>	5	11			
			$\overline{\nabla}$	7.0		S-3	5 6	11			
			Fill: Medium Compact Dark Brown Clayey Sand with trace silt, gravel, brick fragments,				3				
	10		and wood and plastic debris	10.0	10	S-4	7 4	11			
		-	End of Boring @ 10ft								
	15				15						
	20				20						
	25				25						
	30				30						
6/14/13											
NS.GDT		$\left  \right $									
G2_COI	35				35						
0460.GPJ	Drilli	Depth: ng Date:	10ft June 4, 2013	Water Level Observation: Groundwater encountered at 7 feet during drilling							
SOIL / PAVEMENT BORING 130460.GPJ G2_CONS.GDT 6/14/13	Inspec Contr Drille	actor:	Strata Drilling, Inc. B. Sienkiewicz		Notes: Bore * Ca	ehole colla	psed at 2 f and Penetr	t after auger i ometer	removal		
AVEMEN	Drillin 2-1/	ng Metho 4 inch in	od: iside diameter hollow stem augers		Excava Bore	ation Back ehole back	filling Proc filled with	cedure: auger cutting	gs		
SOIL / F			-							Fig	gure No. 5

	Proj	ject Name:	Proposed Industrial Development		ter		So	il Bori	ng No.	<b>B-6</b>
	Proj	ject Locatio	n: Hamlin and Dequindre Rochester Hills, Michigan							
	G2 1	Project No.	130460		**		2			
	Lati	tude: N/A	Longitude: N/A				Cons	sulting Group	, LLC	
			SUBSURFACE PROFILE			S	OIL SAM		Â	
	DEPTH (ft)	PRO- FILE	GROUND SURFACE ELEVATION: N/A	DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/ 6-INCHES	STD. PEN. RESISTANCE (N)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR (PSF)
			Fill: Crushed Concrete (10 inches)	0.8		4				
			Fill: Loose Brown Clayey Sand with trace silt and gravel	3.0	S-1	33	6			
	5		Fill: Very Stiff Gray Silty Clay with trace sand and gravel	5.5	S-2	4 5 5	10	15.5		4500*
			Fill: Medium Compact Dark Brown Clayey			5 8 4	12			
	  10		Sand with trace silt, gravel, and wood and plastic debris		S-4	4 12 10	22			
			End of Boring @ 10ft	10.0 10 - ·		10				
	15			15						
					-					
	20	-		20	-					
		-			-					
		-			-					
		-			-					
		-								
e	30	-		30	-					
3DT 6/14/1										
G2_CONS.GDT 6/14/13	35			- 35	-					
	Total Drillin Inspec	Depth: ng Date:	10ft June 4, 2013	Water Level Observation: Groundwater encountered at 10 inches during drilling; 1- upon completion				illing; 14 iı	nches	
SOIL / PAVEMENT BORING 130460.GPJ	Contra Drille	actor:	Strata Drilling, Inc. B. Sienkiewicz	Notes: Bor	ehole colla		t after auger : cometer	removal		
/ PAVEME	Drillin 2-1/	ng Method /4 inch insi	e diameter hollow stem augers	Excav Bor	ation Back ehole back	filling Proo filled with	cedure: auger cutting	gs		
SOIL									Fig	gure No. 6

	Proj	ect Narr	ne: Proposed Industrial Development	Soil Boring			ng No.	<b>B-7</b>			
	Proj	ect Loca	ation: Hamlin and Dequindre Rochester Hills, Michigan								
		-	No. 130460				E		ulting Group,	LLC	
	Lati	tude: N/	-								
		1	SUBSURFACE PROFILE					OIL SAMI STD. PEN.	PLE DA'I	'A DRY	LINCONE
	DEPTH (ft)	PRO- FILE	GROUND SURFACE ELEVATION: N/A		DEPTH (ft)	SAMPLE TYPE-NO.	BLOWS/ 6-INCHES	RESISTANCE (N)	CONTENT (%)	DRY DENSITY (PCF)	UNCONF. COMP. STR. (PSF)
			Fill: Crushed Concrete (14 inches)	1.2			5 5				
			Fill: Slag Like Material Fill: Loose Reddish Brown Silty Sand with trace clay and gravel	2.0		S-1	4	9			
	5		Fill: Stiff Gray Silty Clay with trace sand, gravel, and plastic debris		5	S-2	3 4 4	8	19.0		2000*
				6.0	 	S-3	2 4 4	8			
							6				
	10		Fill: Loose to Medium Compact Dark Brown and Black Clayey Sand with trace silt,		10	S-4	14 7	21			
			gravel, brick fragments, and wood, glass, and plastic debris								
							5 6				
	15			15.0	15	S-5	13	19			
		_	End of Boring @ 15ft								
		-									
		-									
	20	-			20						
		-									
		-									
	25	-			25						
		-									
		-									
~	30	-			30						
F 6/14/13		-									
DNS.GD											
G2_C(	35				35						
0460.GPJ	Drillir	Depth: ng Date:	15ft May 30, 2013		Gro	Level Obseundwater e		d at 14 inche	s during dri	lling; 4 fee	et upon
SOIL / PAVEMENT BORING 130460.GPJ G2_CONS.GDT 6/14/13	Contractor:Strata Drilling, Inc.Driller:B. SienkiewiczNotes:			and Penetr	ometer						
AVEMENT	Drillir 2-1/	ng Meth 4 inch i	od: nside diameter hollow stem augers		Excava Bore	ation Back	filling Proc filled with	edure: auger cutting	gs		
SOIL / P.	Figure No. 7										



## **GENERAL NOTES TERMINOLOGY**

Unless otherwise noted, all terms herein refer to the Standard Definitions presented in ASTM 653.

	PARTICLE SIZE	CLASSIFIC	CATION			
Boulders	- greater than 12 inches	The major soil constituent is the	principal noun, i.e. clay, silt,			
Cobbles - 3 inches to 12 inches		sand, gravel. The second major soil constituent and other				
Gravel - Coarse	- 3/4 inches to 3 inches	minor constituents are reported as	s follows:			
- Fine	- No. 4 to 3/4 inches					
Sand - Coarse	- No. 10 to No. 4	Second Major Constituent	Minor Constituent			
- Medium	- No. 40 to No. 10	(percent by weight)	(percent by weight)			
- Fine	- No. 200 to No. 40	Trace - 1 to 12%	Trace - 1 to 12%			
Silt	- 0.005mm to 0.074mm	Adjective - 12 to 35%	Little - 12 to 23%			
Clay	- Less than 0.005mm	And - over 35%	Some - 23 to 33%			

#### **COHESIVE SOILS**

If clay content is sufficient so that clay dominates soil properties, clay becomes the principal noun with the other major soil constituent as modifier, i.e. sandy clay. Other minor soil constituents may be included in accordance with the classification breakdown for cohesionless soils, i.e. silty clay, trace sand, little gravel.

	Unconfined Compressive	
Consistency	Strength (psf)	Approximate Range of (N)
Very Soft	Below 500	0 - 2
Soft	500 - 1,000	3 - 4
Medium	1,000 - 2,000	5 - 8
Stiff	2,000 - 4,000	9 - 15
Very Stiff	4,000 - 8,000	16 - 30
Hard	8,000 - 16,000	31 - 50
Very Hard	Over 16,000	Over 50

Consistency of cohesive soils is based upon an evaluation of the observed resistance to deformation under load and not upon the Standard Penetration Resistance (N).

	COHESIONLESS SOILS	
Density Classification	<b>Relative Density %</b>	Approximate Range of (N)
Very Loose	0 - 15	0 - 4
Loose	16 - 35	5 - 10
Medium Compact	36 - 65	11 - 30
Compact	66 - 85	31 - 50
Very Compact	86 - 100	Over 50

Relative Density of cohesionless soils is based upon the evaluation of the Standard Penetration Resistance (N), modified as required for depth effects, sampling effects, etc.

#### SAMPLE DESIGNATIONS

- AS Auger Sample Cuttings directly from auger flight
- BS Bottle or Bag Samples
- S Split Spoon Sample ASTM D 1586
- LS Liner Sample with liner insert 3 inches in length
- ST Shelby Tube sample 3 inch diameter unless otherwise noted
- PS Piston Sample 3 inch diameter unless otherwise noted
- RC Rock Core NX core unless otherwise noted

STANDARD PENETRATION TEST (ASTM D 1586) - A 2.0 inch outside-diameter, 1-3/8 inch inside-diameter split barrel sampler is driven into undisturbed soil by means of a 140-pound weight falling freely through a vertical distance of 30 inches. The sampler is normally driven three successive 6-inch increments. The total number of blows required for the final 12 inches of penetration is the Standard Penetration Resistance (N).

# **Attachment D**

# **Available Project Bid Documents**

#### ERL **STRUCTION**

4964 Technical Dr. Milford, Michigan 48381 Phone: (248) 714-5486 Fax: (248) 714-5249

#### PROPOSAL SUBMITTED TO:

J.B. Donaldson Co. 37610 Hills Tech Drive Farmington Hills, MI 48332 Attn: Joe Jendrusik

We hereby submit specifications and estimates to furnish all labor, material, equipment, and insurance to provide the following:

Print Date: 3/15/2014

#### BUDGET VALUES ONLY

PROJECT:

General Trucking

Proposal

EARTHWORK:				
Site:				
Silt Fence		2,800	SF	
Mud Mat		1		
Saw / Demo Curb & Pavement			LS	
Clear / Grubb Site			LS	
Strip / Stockpile Topsoil		6,450	CY	
Cut		7,920		
Fill		2,660		
Berm Surplus Spoils		8,592		
Pond 3126 Hard Yards		4,700		- 2LASS U
Backfill Foundations @ Truck Dock			TNS	Some
6" Stone Building Pad		34,000		
Prep Site For Concrete +10		4,800		
Excavate Truck Well		4,000	LS	
Prep For Curbs +10		1,300		
Prep For Asphalt Sub-Base +10		60,390		
Re-Distribute Topsoil				
Final Grade Greenbelts		1,400		
		112,686		
Final Grade Pond			LS	
Erosion Control				DTHERS
Seed / Mulch				DTHERS
Signage / Traffic			INC	
Place / Compact Millings - FURNISHED BY	OTHERS	133,000	SF	
Street Sweeping			INC	
				/
	EARTHWORK SUBTOTAL:		\$	138,280.00 🖌
CONTINUED ON nereby propose to furnish labor and materials - complete in accordance with the				1
ereby propose to raman abor and materials - complete in accordance with me				
rs (\$) with payments to be made as follows:				
aterial is guaranteed to be as specified. All work is to be completed in a workm	anlike manner according to standard practices.			
alteration or deviation from above specifications involving extra costs, will be ex		ie an		
a charge over and above the estimate. All agreements contingent upon strikes,		to carry		
tornado and other necessary insurance. Our workers are fully covered by Work	kman's Compensation Insurance.			
Authorized Signature:	3 Allar	and the second se		
	Raymond Merlo			

5791 A

Page No. 1 of 3

Date:

4/16/2014

NOTE:

This proposal may be withdrawn by us if not accepted within 30 days.

	<u>Proposal</u>			<b>791 A</b> ge No. 2 of 3
4964 Technical Dr. Milford, Michigan 48381 Phone: (248) 714-5486 Fax: (248) 714-5249			Date:	4/16/2014
PROPOSAL SUBMITTED TO: J.B. Donaldson Co. 37610 Hills Tech Drive Farmington Hills, MI 48332 Attn: Joe Jendrusik We hereby submit specifications and estimates to furnish all lat		rucking		
Print Date: 3/15/2014	Continued from previous page	ge.		
<u>Storm:</u> 12" RCP 15" RCP 12" Culvert Storm Catch Basin Storm Man Hole Outlet Control Structure End Sections Rip Rap Storm Force Main Storm Pump 8" PVC Roof Conductors Sand - In Dirt - Out - Stockpile			1,215 FT 685 FT 275 FT 14 4 2 4 4 640 LF 90 LF 1,645 TN 1,754 TY	
	STORM S	UBTOTAL:	\$	138,240.00 V
<u>Water:</u> Hydrants 16" x 8" TSV & Well 8" DI 6" DI 6" Valve Box 2" Stop Box 2" "K" Copper 2" Tap Sand - In Dirt - Out			2 1 360 LF 80 LF 1 2 120 LF 1 350 TN 350 TY	CLASS II DUMP
	WATER S	UBTOTAL:	\$	39,400.00
We hereby propose to furnish labor and materials - complete in	CONTINUED ON NEXT PAGE accordance with the above specification	ons, for the sum of:		
dollars (\$) with payments to be made as follows:				
All material is guaranteed to be as specified. All work is to be of Any alteration or deviation from above specifications involving e extra charge over and above the estimate. All agreements con fire, tornado and other necessary insurance. Our workers are t	xtra costs, will be executed only upon ingent upon strikes, accidents or delay	written orders, and will becor s beyond our control_Owne	me an	
Authorized Signature:	Raymond'M	erlo	1	

NOTE:

This proposal may be withdrawn by us if not accepted within 30 days.

	<u>Proposal</u>	<b>5791 A</b> Page No. 3 of 3
4964 Technical Dr. Milford, Michigan 48381 Phone: (248) 714-5486 Fax: (248) 714-5249		Date: 4/16/2014
PROPOSAL SUBMITTED TO: J.B. Donaldson Co. 37610 Hills Tech Drive Farmington Hills, MI 48332 Attn: Joe Jendrusik	PROJECT: General Trucking	
We hereby submit specifications and estimates to furnish all la Print Date: 3/15/2014	abor, material, equipment, and insurance to provide the following: Continued from previous page.	
Sanitary: 2" Force Main 8" PVC Sanitary Man Hole Clean - Out Tap Existing Directional Bore Sanitary Lift Pump Sand - In Dirt - Out - Stockpile	1 SANITARY SUBTOTAL:	1,080 LF 190 LF 1 1 70 LF (BUDGET) \$ 10,000.00 130 TNS 150 TY - CLASS U WWW \$ 47,310.00
EARTH	WOK & UNDERGROUND UTILITY TOTAL:	
<u>NOTE:</u> Utility Spoils Surplus Spoils From Balance	1	2,245 TY 4,700 TY Fotal: 6,945 TY CLASS U SPOILS
Dewatering/Subgrade Under Handling Contaminated Mate of Others Spoils/Landscaping Aggregate Base Under Aspha Or Backfill/Tipping or Dump F	Permits/Fees/Bonds/Special Insurances/As B cuts/Removal of Hidden Obstructions/Handlin rial/Winter Conditions and Protection/Handlin /Sod, Seed, or Mulch/Hand Raking Of Topso alt or Curb and Gutter/Foundation Excavation Fees/Quantities Not Listed/Termite Control/P ting Fill or Topsoil/Screening Topsoil.	Builts/ $$152,790^{\circ\circ}$ ng oil/ n
We hereby propose to furnish labor and materials - complete dollars (\$) with payments to be made as follows:	in accordance with the above specifications, for the sum of:	
All material is guaranteed to be as specified. All work is to be Any alteration or deviation from above specifications involving	completed in a workmanlike manner according to standard practic g extra costs, will be executed only upon written orders, and will be ontingent upon strikes, accidents or delays beyond our control. Ow	come an

Authorized Signature:

Raymond Merlo TE: This proposal may be withdrawn by us if not accepted within 30 days.

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NOTE:

## Proposal K & W Concrete Construction, Inc.

#### 9805 Cranbrook Court Romeo, Michigan 48065

Phone # 586-752-9493

Email www.westlaket@comcast.net

Fax # 586-752-6089

**General Trucking** 

Date:4-5-14

Job Name:

Proposal Submitted to: JB Donaldson Company 37720 Hills Tech Drive Farmington Hills, MI. 48331

#### Attn. Joseph Jendrusik

Item 1	<b>Foundations for Main Building</b> Excavate and pour 9 interior pile caps and 13 exterior pile caps with #5 bar 1 foot on center each way. Excavate and pour exterior trench footing with two #5 bar top and bottom. Set and grout anchor bolts. Excavate and pour 9 interior and 9 exterior column pads with #5 bar 1 foot on center each way. Excavate, form and pour truck well spread footings and walls with #5 bar 1 foot on center each way in spread footing and 1 foot on center each way on each face. Excavate and	Charges
	pour dumpster footing back fill truck well walls with sand. No Helical piers included.	\$84,014.00
2	Truck wash footings	\$8,867.00
3	Spoils to be hauled away by others. 710 yards - CLASS (1 +22 =	C
	Floors 31,240	/
	1 Pour and finish 40,000 square foot floor with 6" concrete, 2.9 wire mesh, perimeter	¢400 504 00
	insulation, expansion, 10 mill vapor barrier, sealer and saw cut.	\$122,504.00
2	Form and pour 3 dock levelers	\$2,100.00
3	Set and fill 6 bumper posts	\$600.00 🗸
4	Pour and finish 3,000 square foot mezzanine with 4" concrete, 2.9 wire mesh, pan	AD 007 00
	steps and concrete pump.	\$8,867.00 🗸
5	Pour and finish 2,000 sq. ft. Truck Wash floor with 8" concrete 2.9 wire mesh,	
	perimeter insulation, expansion, sealer and saw cut Trench drain by others.	\$8,616.00
	Site concrete	
1	2,348 square feet of walks	\$7,485.00
2	2,520 square foot truck well	\$8,064.00
3	289 square foot dumpster pad	\$900.00
4	9,000 square feet of Dolly strip	\$28,800.00
5	100 square foot transformer pad	\$400.00
6	1,554 feet of curb and gutter	\$19,425.00
	Total	\$300,642.00

Unpaid balances are subject to a late payment charge of 2% per month (24% per annum).

# CONTRACTORS WATERPROOFING SYSTEMS

P.O. Box 176 Cheney, KS 67025 103 W. 2<sup>nd</sup> Avenue Cheney, KS 67025

Phone (316)540-6166 Fax (316)540-6168 contractorswaterproofing@yahoo.com

March 19, 2014

TO: Jennifer Ritchie

PROJECT: General Trucking

SCOPE OF WORK: PROPOSAL FOR THE INSTALLATION OF GEO-SEAL® VAPOR INTRUSION BARRIER AND GEO-SEAL VAPOR VENT

We propose to furnish labor and materials for the Geo-Seal Vapor Intrusion Barrier and Geo-Seal Vapor Vent per manufacturer's details.

#### PRICE:

Name	Approximate SF	Price Total
Geo-Seal Vapor Intrusion Barrier & Vapor Vent	32,000 sf	\$94,400.00
1 Mobilization	Yes	\$0.00
All Penetrations	Yes	\$0.00
Smoke Verification Testing	Yes	\$0.00
Total		\$94,400.00

# CONTRACTORS WATERPROOFING SYSTEMS

P.O. Box 176 Cheney, KS 67025 103 W. 2<sup>nd</sup> Avenue Cheney, KS 67025

Phone (316)540-6166 Fax (316)540-6168 contractorswaterproofing@yahoo.com

Geo-Seal System includes:

- Geo-Seal BASE Layer (HPDE/Geotextile layer)
- 60 Mils of Geo-Seal CORE
- Geo-Seal BOND Layer (HDPE/Geotextile layer)
- Geo-Seal Vapor-Vent Poly Trenchless venting system includes 825' venting & 6 vent risers
- Price includes sales tax and freight cost
- Length of time for installation of Geo-Seal, Vapor-Vent and verification testing is 11 Days

#### QUALIFICATIONS

- 1) Placement, compacting and preparation of substrate by others. Subgrade should be prepared per manufacturer's specifications.
- 2) Gas monitoring equipment by others.
- 3) Any additional protection course including sand, by others.
- 4) Not responsible for damage caused by others or the elements.
- 5) Vent risers to 12" above top of slab, all above by others.
- 6) If power equipment is needed to install vapor vent due to substrate hardness, there will be an additional charge.
- 7) Contractor must accept substrate grade and vent riser locations before vapor barrier installation.
- 8) Conduit and pipe clusters to have mud slab extending 6" out.
- 9) No concrete cutting or boring included in this bid.
- 10) Bid based upon (1) one move-in.
- 11) Bid based on approximate square footage; if
- 12) Area to be sealed must be graded to allow access by truck.
- 13) This bid is to become part of contract.
- 14) There shall be no retainage withheld or retainage to be paid 30 days after floor is poured.
- 15) Bonds not included.
- 16) Pricing based upon non-union and non-prevailing wage rates
- 17) Sales tax has been calculated at \_7.75\_%, anything over this will be added to the price.
- 18) Contractors Waterproofing is trained and certified by Land Science Technologies for the installation of the Geo-Seal and Vapor-Vent system
- 19) Manufacturer's warranty options will be furnished upon request
- 20) Manufacturer's warranties are issued once payments are received
- 21) Pricing is held for 60 days from date of bid

If you have any questions, please call me.

Sincerely,

Michael Downey, Owner

Contractors Waterproofing Systems

# **Attachment E**

# **Project Pro-Forma and Financials**



### Sources and Uses

Sources	Amount	Uses	Amount
Equity Financing	\$ 500,000.00	Acquisition	\$ 400,000.00
Permanent Financing	\$ 3,415,000.00	Construction of New Building	\$ 3,453,500.00
		Soft Costs	\$ 241,500.00
		New Equipment	\$ 50,000.00
Funding Gap	\$ 230,000.00	Developer Fee	NA
Total Sources of Capital	\$ 4,145,000.00	Total Uses of Capital	\$ 4,145,000.00

General Trucking COMMITTED COST REPORT - JB DONALDSON COMPANY PURCHASE ORDER

SPEC	DESCRIPTION	ORIGINAL	BUDGET	REALLOCATE	PENDING	APPROVED	REVISED	CONTRACTS	AWARDED	PENDING	REMAINING	PROJECTED	UNDERRUN	SF COSTS	SUBCONTRACTOR
SEC		CORE & SHELL	TENANT	BUDGET	CHANGES	CHANGES	BUDGET	CORE & SHELL	TENANT	COMMITMENTS	TO AWARD	TOTAL	(OVERRUN)	122,425	
1400	QUALITY CONTROL	\$20,000	\$0	\$0	\$0	\$0	\$20,000	\$0	\$0	\$0	\$0	\$0	\$20,000	\$0.00	
2060	SITE CLEARING AND GRUBBING	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0.00	
2200	EARTHWORK	\$332,310	\$0	\$0	\$0	\$0	\$332,310	\$0	\$0	\$0	\$0	\$0	\$332,310	\$0.00	
2511	ASPHALT PAVING	\$352,220	\$0	\$0	\$0	\$0	\$352,220	\$0	\$0	\$0	\$0	\$0	\$352,220	\$0.00	
2513	CONCRETE PAVING	\$65,074	\$0	\$0	\$0	\$0	\$65,074	\$0	\$0	\$0	\$0	\$0	\$65,074	\$0.00	
2520	SITE WALLS & FENCING	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0.00	
2600	SITE UTILITIES	\$341,663	\$0	\$0	\$0	\$0	\$341,663	\$0	\$0	\$0	\$0	\$0	\$341,663	\$0.00	
2900	LANDSCAPE & IRRIGATION	\$67,561	\$0	\$0	\$0	\$0	\$67,561	\$0	\$0	\$0	\$0	\$0	\$67,561	\$0.00	
3310	CONCRETE FOUNDATIONS	\$247,500	\$0	\$0	\$0	\$0	\$247,500	\$0	\$0	\$0	\$0	\$0	\$247,500	\$0.00	
3320	CONCRETE SLABS	\$145,971	\$0	\$0	\$0	\$0	\$145,971	\$0	\$0	\$0	\$0	\$0	\$145,971	\$0.00	
4100	MASONRY	\$153,000	\$0	\$0	\$0	\$0	\$153,000	\$0	\$0	\$0	\$0	\$0	\$153,000	\$0.00	
5100	STRUCTURAL STEEL	\$501,432	\$0	\$0	\$0	\$0	\$501,432	\$0	\$0	\$0	\$0	\$0	\$501,432	\$0.00	
6100	CARPENTRY & MILLWORK	\$83,950	\$0	\$0	\$0	\$0	\$83,950	\$0	\$0	\$0	\$0	\$0	\$83,950	\$0.00	
7500	ROOFING & SCREENING	\$20,000	\$0	\$0	\$0	\$0	\$20,000	\$0	\$0	\$0	\$0	\$0	\$20,000	\$0.00	
8100	DOORS & HARDWARE	\$12,750	\$0	\$0	\$0	\$0	\$12,750	\$0	\$0	\$0	\$0	\$0	\$12,750	\$0.00	
8410	ALUM ENTRANCES & STOREFRONT	\$48,000	\$0	\$0	\$0	\$0	\$48,000	\$0	\$0	\$0	\$0	\$0	\$48,000	\$0.00	
8900	WINDOWS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0.00	
9600	FLOORING	\$24,750	\$0	\$0	\$0	\$0	\$24,750	\$0	\$0	\$0	\$0	\$0	\$24,750	\$0.00	
9900	PAINTING & WALLCOVERINGS	\$17,500	\$0	\$0	\$0	\$0	\$17,500	\$0	\$0	\$0	\$0	\$0	\$17,500	\$0.00	
10160	TOILET PARTITIONS & ACCESSORIES	\$12,000	\$0	\$0	\$0	\$0	\$12,000	\$0	\$0	\$0	\$0	\$0	\$12,000	\$0.00	
10350	Dock Doors and Equipment	\$33,800	\$0	\$0	\$0	\$0	\$33,800	\$0	\$0	\$0	\$0	\$0	\$33,800	\$0.00	
10400	INTERIOR & EXT SIGNAGE	\$5,000	\$0	\$0	\$0	\$0	\$5,000	\$0	\$0	\$0	\$0	\$0	\$5,000	\$0.00	
14200	NA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0.00	
15200	PLUMBING	\$55,000	\$0	\$0	\$0	\$0	\$55,000	\$0	\$0	\$0	\$0	\$0	\$55,000	\$0.00	
15300	FIRE PROTECTION	\$90,000	\$0	\$0	\$0	\$0	\$90,000	\$0	\$0	\$0	\$0	\$0	\$90,000	\$0.00	
15500	HVAC	\$88,000	\$0	\$0	\$0	\$0	\$88,000	\$0	\$0	\$0	\$0	\$0	\$88,000	\$0.00	
16000	ELECTRICAL	\$288,000	\$0	\$0	\$0	\$0	\$288,000	\$0	\$0	\$0	\$0	\$0	\$288,000	\$0.00	
SUBTOT	AL COST #1	\$3,005,481	\$0	\$0	\$0	\$0	\$3,005,481	\$0	\$0	\$0	\$0	\$0	\$3,005,481	\$0.00	
	CONTINGENCY	\$118,868	\$0	\$0	\$0	\$0	\$118,868	\$0	\$0	\$0	\$0	\$0	\$118,868	\$0.00	
	GENERAL CONDITIONS & STAFFING	\$120,000	\$0	\$0	\$0	\$0	\$120,000	\$0	\$0	\$0	\$0	\$0	\$120,000	\$0.00	
	WINTER PROTECTION	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0.00	
SUBTOT	AL COST #2	\$3,244,349	\$0	\$0	\$0	\$0	\$3,244,349	\$0	\$0	\$0	\$0	\$0	\$3,244,349	\$0.00	
	BUILDING PERMIT	\$25,000	\$0	\$0	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0	\$0	\$25,000	\$0.00	
	TAP FEES & ASSESSMENTS	\$25,000	\$0	\$0	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0	\$0	\$25,000	\$0.00	
	Gas and Electric Company Charges	\$6,500	\$0	\$0	\$0	\$0	\$6,500	\$0	\$0	\$0	\$0	\$0	\$6,500	\$0.00	
	SURVEY & LAYOUT	\$15,000	\$0	\$0	\$0	\$0	\$15,000	\$0	\$0	\$0	\$0	\$0	\$15,000	\$0.00	
	CIVIL ENGINEERING	\$20,000	\$0	\$0	\$0	\$0	\$20,000	\$0	\$0	\$0	\$0	\$0	\$20,000	\$0.00	
	ARCHITECT	\$50,000	\$0	\$0	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$50,000	\$0.00	
	BROKER FEE	\$50,000	\$0	\$0	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$50,000	\$0.00	
	Engineering Review / Inspections	\$25,000	\$0	\$0	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0	\$0	\$25,000	\$0.00	
	Pre-Development Fees	\$25,000	\$0	\$0	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0	\$0	\$25,000	\$0.00	
	BUILDERS RISK	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0.00	
SUBTOT	AL COST #3	\$3,485,849	\$0	\$0	\$0	\$0	\$3,485,849	\$0	\$0	\$0	\$0	\$0	\$3,485,849	\$0.00	
	OH&P	\$209,151	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$209,151	\$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$209,151	\$0.00	
SUPTOT	AL JBDC PURCHASE ORDER		\$0	\$0 \$0	\$0	\$0	\$3,695,000	\$0	\$0	\$0	\$0	\$0	\$3,695,000	\$0.00	
SUBIOT	AL JODC PURCHASE ORDER	\$3,695,000	\$0	\$0	\$0	\$0	<b>\$3,695,000</b>	\$0	\$0	\$0	\$0	\$0	<b>\$3,695,000</b>	\$0.00	

SPEC DESCRIPTION ORIGINAL BUDGET REALLOCATE PENDING APPROVED REVISED CONTRACTS AWARDED PENDING REMAINING PROJECTED UNDERRUN SF COSTS SUBCONTRACTOR CONT																
SPEC SEC	DESCRIPTION	ORIGINAL CORE/SHELL		BUDGET		APPROVED CHANGES	REVISED BUDGET	CONTRACTS CORE / SHELL	AWARDED TENANT	PENDING COMMITMENTS	REMAINING TO AWARD	PROJECTED TOTAL	(OVERRUN)	SF COSTS	SUBCONTRACTOR	CONTROL NUMBER
	QUALITY CONTROL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0	( /	1	Allowance	
1400 0	Site Testing Allowance	\$20,000	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$20,000	\$0 \$0	\$0		\$0 \$0	\$0			Allowance	
2		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
3		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
4		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
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TOTAL BUD		\$20,000	\$0	\$0		\$0	\$20,000	\$0	\$0		\$0	\$0	\$20,000	j i		
2060 5	SITE CLEARING AND GRUBBING	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		1 1		1
1	Remove Trees, Grind Stumps (NA)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0			NA	
2		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
4	·	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
		\$0	\$0 \$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0		\$0	\$0				<b> </b>
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		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	<u>\$0</u> \$0	\$0 \$0	\$0 \$0		\$0 \$0	<u>\$0</u> \$0				<u> </u>
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TOTAL BUD		\$0		\$0		\$0	\$0		\$0			\$0	\$0	j i		
2200 5	ARTHWORK	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		1 1		1
2200 1	Earthwork	\$138,280	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$138,280	\$0	\$0		\$0	\$0			Merlo	
2	Silt Fence	in abv	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0			Merlo	
3	Importation	in abv	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0			Merlo	
4	Exportation to Class II (Earthwork & Utilities)	\$152,790	\$0	\$0	\$0	\$0	\$152,790	\$0	\$0		\$0	\$0			Merlo	
4	Pond Barrier System	\$10,000	\$0	\$0	\$0	\$0	\$10,000	\$0	\$0		\$0	\$0			PME Budget	
5	Exportation to Class II (Foundations)	\$31,240	\$0	\$0	\$0	\$0	\$31,240	\$0	\$0		\$0	\$0			K & W / Merlo	L
		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				L
	, , , , , , , , , , , , , , , , , , , ,	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0				
		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0		\$0	\$0 \$0				ł
	0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0	\$0	\$0		\$0	\$0				
	1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0		1 1		
TOTAL BUD	GET	\$332,310	\$0	\$0	\$0	\$0	\$332,310	\$0	\$0		\$0	\$0	\$332,310	j i		
		<b>*</b> -	0.0	A -	<b>A</b> C	6-	0		**		<b>A</b> -	¢-		ı ı		1
2511	ASPHALT PAVING	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$295,970	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0			Nada Poving	
	Asphalt Paving (HD and Light Paving Areas) 10" Stone & Millings (including millings)	\$295,970 in abv	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$295,970	\$0 \$0	\$0 \$0		\$0 \$0	<u>\$0</u> \$0			Nagle Paving Nagle Paving	<b> </b>
	Geo Grid	\$56.250	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$56,250	\$0 \$0	\$0		\$0 \$0	\$0			JBD Budget	<b></b>
4		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				i
5	<u> </u>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
6	3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
7	,	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				<b> </b>
		\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0		\$0 \$0	\$0		<b>├</b> ──┤		───
	0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0				<u> </u>
		\$0 \$352,220	\$0 <b>\$0</b>	\$0 <b>\$0</b>		\$0 <b>\$0</b>	\$0 \$352,220	\$0 <b>\$0</b>	\$0 \$0			\$0 <b>\$0</b>	\$352,220			i i i i i i i i i i i i i i i i i i i
	CONCRETE PAVING	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				L
1	Curb and Gutter	\$19,425	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$19,425	\$0	\$0		\$0	\$0 \$0			K & W Concrete	<b> </b>
	Truck Dolly Strip 8" Conc. Truckwells	\$28,800 \$8,064	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$28,800 \$8,064	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0		┥──┤	K & W Concrete K & W Concrete	<b> </b>
	Pads	\$8,064	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$8,064	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0			K & W Concrete K & W Concrete	<b> </b>
	4" concr sidewalks	\$7,485	\$0 \$0	\$0 \$0		\$0 \$0	\$7,485	\$0 \$0	\$0		\$0	\$0 \$0			K & W Concrete	
		\$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0		\$0		\$0 \$0	\$0	1			
7	,	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
	3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
	)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
	0	\$0	\$0	\$0		\$0	\$0		\$0		\$0	\$0				ļ
TOTAL BUD	GET	\$65,074	\$0	\$0	\$0	\$0	\$65,074	\$0	\$0	\$0	\$0	\$0	\$65,074			

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SPEC SEC	DESCRIPTION	ORIGINAL CORE/SHELL	BUDGET TENANT	REALLOCATE BUDGET	PENDING CHANGES	APPROVED CHANGES	REVISED BUDGET	CONTRACTS CORE / SHELL	AWARDED TENANT	PENDING COMMITMENTS	REMAINING TO AWARD	PROJECTED TOTAL	UNDERRUN (OVERRUN)	SF COSTS	SUBCONTRACTOR	CONTROL NUMBER
2520 SIT	E WALLS & FENCING	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
1	No retaining walls	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0			NA	
2	Fencing estimate	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0			NA	
3		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
4		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
5		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
6		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
/		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0				
8		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0		\$0 \$0	\$0 \$0				
10		\$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0		\$0	\$0 \$0				
TOTAL BUDGE	ET	\$0	\$0	\$0 \$0	\$0 \$0	\$0	\$0	\$0 \$0	\$0 \$0			\$0	\$0			
2600 817	EUTILITIES	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			[	1 1
2000 311	Storm	\$82,240	\$0	\$0	\$0	\$0 \$0	\$82,240	\$0	\$0		\$0	\$0 \$0			Merlo	
1	Storm Lift Station / Pump	\$10,000	\$0 \$0	\$0	\$0 \$0	\$0	\$10,000	\$0 \$0	\$0		\$0 \$0	\$0			Merlo	
2	Water	\$37,400	\$0	\$0 \$0	\$0	\$0	\$37,400	\$0 \$0	\$0 \$0		\$0 \$0	\$0			Merlo	
3	Sanitary	\$35,310	\$0	\$0	\$0	\$0	\$35,310	\$0	\$0		\$0	\$0			Merlo	
3	Utility Corridor & Slurry Walls	\$20,000	\$0	\$0	\$0	\$0	\$20,000	\$0	\$0		\$0	\$0			Merlo	
3	Sanitary Lift Station / Pump	\$10,000	\$0	\$0	\$0	\$0	\$10,000	\$0	\$0	\$0	\$0	\$0			JBD Allowance	
4	Int storm with interceptor	\$10,000	\$0	\$0	\$0	\$0	\$10,000	\$0	\$0		\$0	\$0			JBD Allowance	
5	Down spout tie in	\$2,313	\$0	\$0	\$0	\$0	\$2,313	\$0	\$0		\$0	\$0			JBD Allowance	
6	Methane System PM Costs	\$94,400	\$0	\$0	\$0	\$0	\$94,400	\$0	\$0		\$0	\$0			PME Estimate	
7	Methane Venting Balance	\$15,000	\$0	\$0	\$0	\$0	\$15,000	\$0	\$0		\$0	\$0			PME Estimate	
8	Methane Design	\$25,000	\$0	\$0	\$0	\$0	\$25,000	\$0	\$0		\$0	\$0			JBD Allowance	
9		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
10		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
TOTAL BUDGE	T	\$341,663	\$0	\$0	\$0	\$0	\$341,663	\$0	\$0	\$0	\$0	\$0	\$341,663			I
2900 LAN	IDSCAPE & IRRIGATION	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			[	
1	Base Landscape	\$67,561	\$0	\$0	\$0	\$0	\$67,561	\$0	\$0		\$0	\$0			Backer Landscaping	
4		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
5		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
6		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
7		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
8		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
9		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
10		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
TOTAL BUDGE	ET	\$67,561	\$0	\$0	\$0	\$0	\$67,561	\$0	\$0	\$0	\$0	\$0	\$67,561			
3310 CO	NCRETE FOUNDATIONS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	 			
1	Trenched foundations	\$40,000	\$0	\$0	\$0	\$0	\$40,000	\$0	\$0		\$0	\$0			K & W Concrete	
1	Grade Beam due to Soil Conditions	\$48,000	\$0	\$0	\$0	\$0	\$48,000	\$0	\$0		\$0	\$0			K & W Concrete	
2	Piers	in above	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			K & W Concrete	
3	Truckwell	in above	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0			K & W Concrete	
4	Auger Piles	\$159,500	\$0	\$0	\$0	\$0	\$159,500	\$0	\$0		\$0	\$0			JBD Budget	
5		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
6		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
7		\$0	\$0	\$0			\$0	\$0	\$0		\$0	\$0				
8		\$0	\$0	\$0	\$0		\$0	\$0	\$0		\$0	\$0				
9		\$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0 \$0				
10		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	•	\$0	\$0				
TOTAL BUDGE	ET	\$247,500	\$0	\$0	\$0	\$0	\$247,500	\$0	\$0	\$0	\$0	\$0	\$247,500			ļļļ
3320 CO	NCRETE SLABS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
1	Building Slab 6"	\$122,504	\$0	\$0	\$0	\$0	\$122,504	\$0	\$0		\$0	\$0			K & W Concrete	
2	Dock Levelers	\$2,100	\$0	\$0	\$0	\$0	\$2,100	\$0	\$0		\$0	\$0			K & W Concrete	
3	Mezz Slab	\$8,867	\$0	\$0	\$0	\$0	\$8,867	\$0	\$0		\$0	\$0			K & W Concrete	
6	Bollards (18)	\$12,500	\$0	\$0	\$0	\$0	\$12,500	\$0	\$0		\$0	\$0			JBD Budget	
7		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
8		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
9		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				ļ
10		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	1.		\$0				
TOTAL BUDGE	ET	\$145,971	\$0	\$0	\$0	\$0	\$145,971	\$0	\$0	\$0	\$0	\$0	\$145,971		l	

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SPEC	DESCRIPTION		BUDGET	REALLOCATE				CONTRACTS		PENDING		PROJECTED		SF COSTS SUBCONTRACTOR	CONTROL
SEC		CORE/SHELL	TENANT	BUDGET	CHANGES	CHANGES	BUDGET	CORE / SHELL	TENANT	COMMITMENTS	TO AWARD	TOTAL	(OVERRUN)		NUMBER
4100	MASONRY	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			1 1
4100	1 Ext walls, openings	\$95,000	\$0	\$0		\$0 \$0	\$95,000	\$0 \$0	\$0		\$0 \$0	\$0		Great Lakes Masonry	
	3 office demising wall	\$36,000	\$0	\$0	\$0	\$0	\$36,000	\$0	\$0		\$0	\$0		Masonry Developers	
	4 Clean and caulk	\$12,000	\$0	\$0	\$0	\$0	\$12,000	\$0	\$0		\$0	\$0		JBD Budget	
	5 Insulation	\$10,000	\$0	\$0	\$0	\$0	\$10,000	\$0	\$0		\$0	\$0		JBD Budget	
	6	\$0	\$0	\$0			\$0	\$0	\$0		\$0	\$0			
	7	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
	8	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
	9	\$0	\$0	\$0			\$0	\$0	\$0		\$0	\$0			
	10	\$0	\$0	\$0			\$0	\$0	\$0		\$0	\$0			-
			•												
TOTAL BU	DGET	\$153,000	\$0	\$0	\$0	\$0	\$153,000	\$0	\$0	\$0	\$0	\$0	\$153,000		
		1 .			-					<b>1</b>					· · · · ·
5100	STRUCTURAL STEEL	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0			
	1 structural (PEMB)	\$221,432	\$0	\$0	\$0	\$0	\$221,432	\$0	\$0	\$0	\$0	\$0		NuCur	
	2 erection	\$200,000	\$0	\$0	\$0	\$0	\$200,000	\$0	\$0	\$0	\$0	\$0		JBD Budget	
	2 insulation	\$40,000	\$0	\$0	\$0	\$0	\$40.000	\$0	\$0	\$0	\$0	\$0		JBD Budget	
	4 Misc Metals	\$20,000	\$0 \$0	\$0 \$0		\$0	\$20,000	\$0 \$0	\$0		\$0	\$0		JBD Budget	
	6 Canopy	\$20,000	\$0 \$0	\$0		\$0 \$0	\$20,000	\$0	\$0		\$0 \$0	\$0		JBD Budget	
	7	\$20,000	\$0 \$0	\$0		\$0 \$0	\$20,000	\$0	\$0		\$0 \$0	\$0 \$0		JDD Dudget	<b></b>
	0													<b>↓</b>	┥────┤
	8	\$0	\$0	\$0			\$0	\$0	\$0		\$0	\$0		<b>↓ ↓ ↓</b>	4
	9	\$0	\$0	\$0			\$0	\$0	\$0		\$0	\$0			1
	10	\$0	\$0				\$0	\$0	\$0		\$0	\$0			
	11	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
TOTAL BU	DAFT	\$501,432	\$0	\$0	\$0	\$0	¢504 400	\$0	\$0	\$0	\$0	\$0	\$501,432		
TOTAL BU	DGET	\$501,432	<b>\$</b> 0	\$U	<b>\$</b> 0	<b>\$</b> 0	\$501,432	şυ	<b>\$</b> 0	\$U	\$U	<b>\$</b> 0	\$501,432	]	
6100	CARPENTRY & MILLWORK	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
	1 Interior carpentry	\$52.000	\$0	\$0	\$0	\$0	\$52,000	\$0	\$0	\$0	\$0	\$0		JBD Budget	
	2 Cabinet and sill allowance	\$12,500	\$0	\$0		\$0	\$12,500	\$0	\$0		\$0	\$0		JBD Budget	
	4 ACT Ceilings	\$19,450	\$0	\$0 \$0		\$0	\$19,450	\$0 \$0	\$0		\$0 \$0	\$0		JBD Budget	
	· · · · · · · · · · · · · · · · · · ·	\$19,450	\$0 \$0	\$0				\$0	\$0		\$0 \$0	\$0 \$0		JBD Budget	
	5					\$U	\$0								
	6	\$0	\$0	\$0			\$0	\$0	\$0		\$0	\$0			
	7	\$0	\$0	\$0			\$0	\$0	\$0		\$0	\$0			
	8	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
	9	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
	10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0			
TOTAL BU	DGET	\$83,950	\$0	\$0	\$0	\$0	\$83,950	\$0	\$0	\$0	\$0	\$0	\$83,950	1 1	
						_									
7500	ROOFING & SCREENING	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
	1 Roofing (in PEBM)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		JBD Budget	
	2 RTU screening	\$20,000	\$0	\$0	\$0	\$0	\$20,000	\$0	\$0	\$0	\$0	\$0		JBD Budget	
	3	\$0	\$0	\$0			\$0	\$0	\$0		\$0	\$0			1
	4	\$0	\$0	\$0 \$0			\$0	\$0	\$0		\$0	\$0		<u> </u>	+
	5	\$0	\$0	\$0			\$0 \$0	\$0	\$0		\$0	\$0		ł ł	+
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	6	\$0	\$0	\$0			\$0	\$0	\$0		\$0	\$0		<u>↓                                    </u>	┥───┤
	1	\$0	\$0	\$0			\$0	\$0	\$0		\$0	\$0			l
	8	\$0	\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0			
	9	\$0	\$0	\$0			\$0	\$0	\$0		\$0	\$0			
	10	\$0	\$0	\$0			\$0	\$0	\$0		\$0	\$0			
TOTAL BU	DGET	\$20,000	\$0	\$0	\$0	\$0	\$20,000	\$0	\$0	\$0	\$0	\$0	\$20,000	J İ	1 I
0400	DOORS & HARDWARE	<b>*</b> 0	\$0	\$0	\$0	<b>6</b> 0	<b>6</b> 0	\$0	¢0	L	\$0	\$0		1	1
		\$0					\$0		\$0						4
	1 Base door package	\$12,750	\$0	\$0			\$12,750	\$0	\$0		\$0	\$0		JBD Budget	4
	2 Assume 15 doors	\$0	\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0			1
	3	\$0	\$0	\$0			\$0	\$0	\$0		\$0	\$0			
	4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
	5	\$0	\$0	\$0			\$0	\$0	\$0		\$0	\$0		1	
	6	\$0	\$0	\$0			\$0	\$0 \$0	\$0		\$0	\$0			+
	7	\$0	\$0 \$0	\$0			\$0 \$0	\$0 \$0	\$0		\$0	\$0		<u> </u>	+
	8													ł – – ł	+
	•	\$0	\$0	\$0			\$0	\$0	\$0		\$0	\$0		l	+
	9	\$0	\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0			
	10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
TOTAL BU	DGFT	\$12,750	\$0	\$0	\$0	\$0	\$12,750	\$0	\$0	\$0	\$0	\$0	\$12,750		
101AL DU		φ12,130	φυ	φU	φ0	ψŪ	<i><i>w</i>12,750</i>	ψU	φU	ι φυ	ΨŪ	ψŪ	ψ12,130	4 1	1 1

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SPEC SEC	DESCRIPTION	ORIGINAL CORE/SHELL		REALLOCATE BUDGET		APPROVED CHANGES	REVISED BUDGET	CONTRACTS CORE / SHELL	AWARDED TENANT	PENDING COMMITMENTS	REMAINING TO AWARD	PROJECTED TOTAL	UNDERRUN (OVERRUN)	SF COSTS	SUBCONTRACTOR	CONTROL NUMBER
8410	ALUM ENTRANCES & STOREFRONT	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		1	1	
6410	1 Vestibule & Clearstory Windows	\$48,000	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$48,000	\$0	\$0		\$0 \$0	\$0 \$0			CVP	
	2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
	3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
4	4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
	5	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
	6	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
	/ o	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0				
	o 9	\$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0		\$0 \$0	\$0 \$0				
	10	\$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0		\$0 \$0	\$0 \$0				
TOTAL BUI		\$48,000	\$0	\$0			\$48,000	\$0	\$0		\$0	\$0	\$48,000			
_																
8900	WINDOWS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
	1 Exterior glass, punched	in 08410	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0			CVP	
	3	\$0	\$0	\$0	\$0	\$0	\$0		\$0		\$0	\$0				
	5	\$0 \$0	\$0 \$0	\$0	\$0	\$0	\$0		\$0 \$0		\$0 ©0	\$0				$ \longrightarrow $
	р е	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0		\$0 \$0	\$0 \$0				┥───┤
	7	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0		\$0 \$0	\$0 \$0				╂────┤
	8	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0		\$0 \$0	\$0 \$0				<u>├</u>
	9	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0 \$0	\$0				
	10	\$0	\$0	\$0		\$0	\$0		\$0		\$0	\$0				
TOTAL BUI	DGET	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
		1 ** 1								1 +- 1					1	
9600	FLOORING	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	1			
	1 Carpet	\$15,750	\$0	\$0	\$0	\$0	\$15,750	\$0	\$0		\$0	\$0			JBD Budget	
	2 includes ceramic in restrooms	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			JBD Budget	
:	3 kitchen, storage and IT rooms	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0			JBD Budget	
	4 Ceramic/Granite in lobby	\$9,000	\$0	\$0	\$0	\$0	\$9,000	\$0	\$0		\$0	\$0			JBD Budget	
	5	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
	6	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0				
	8	\$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	<u>\$0</u> \$0		\$0		\$0 \$0	\$0 \$0				
	9	\$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0		\$0		\$0 \$0	\$0 \$0				
	10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	ψū	\$0	\$0	\$0				
TOTAL BUI		\$24,750	\$0	\$0			\$24,750	\$0	\$0		\$0	\$0	\$24,750			
9900	PAINTING & WALLCOVERINGS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
	2 Shop area masonry walls ext	\$7,500	\$0	\$0	\$0	\$0	\$7,500	\$0	\$0		\$0	\$0			JBD Budget	
	3 Office areas ext and int	\$10,000	\$0	\$0	\$0	\$0	\$10,000	\$0	\$0		\$0	\$0			JBD Budget	L
	4 5	\$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0	\$0	\$0		\$0 \$0	\$0 \$0				
	6	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0		\$0 \$0	\$0 \$0				
	7	\$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0		\$0 \$0	\$0 \$0				╂────┤
	8	\$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0		\$0 \$0	\$0 \$0				<u>├</u> ───┤
	9	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
	10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
TOTAL BUI	DGET	\$17,500	\$0	\$0	\$0	\$0	\$17,500	\$0	\$0	\$0	\$0	\$0	\$17,500	l	l	
										_						
10160	TOILET PARTITIONS & ACCESSORIES	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
-	1 2 pair of main restrooms	\$12,000	\$0	\$0	\$0	\$0	\$12,000	\$0	\$0		\$0	\$0			JBD Budget	
	2	\$0	\$0 ©	\$0	\$0	\$0	\$0 \$0	\$0	\$0		\$0 \$0	\$0 \$0				┟────┤
	3	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0				┨────┤
	<del>*</del> 5	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0		\$0 \$0	\$0 \$0				╂────┤
	6	\$0	\$0 \$0	\$0	\$0	\$0 \$0	\$0		\$0		\$0 \$0	\$0 \$0				<u>├</u> ───┤
	7	\$0	\$0	\$0	\$0	\$0	\$0		\$0		\$0	\$0				
	8	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
9	9	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
	10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
TOTAL BUI	DGET	\$12,000	\$0	\$0	\$0	\$0	\$12,000	\$0	\$0	\$0	\$0	\$0	\$12,000			

SPEC	DESCRIPTION		L BUDGET	REALLOCATE						PENDING	REMAINING	PROJECTED		SF COSTS	SUBCONTRACTOR	CONTROL
SEC		CORE/SHELI	TENANT	BUDGET	CHANGES	CHANGES	BUDGET	CORE / SHELL	TENANT	COMMITMENTS	TO AWARD	TOTAL	(OVERRUN)			NUMBER
10350	Dock Doors and Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		1		
	1 OHD	\$5,000	\$0	\$0		\$0	\$5,000	\$0	\$0		\$0	\$0			JBD Budget	
	2 Levelers	\$22,200	\$0	\$0	\$0	\$0	\$22,200	\$0	\$0	\$0	\$0	\$0			JBD Budget	
	3 Shelters	\$6,600	\$0	\$0			\$6,600	\$0	\$0		\$0	\$0			JBD Budget	
	4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
	5	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0				
	6	\$0	\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0				
	7	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
	8	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
	9	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
	10	\$0	\$0	\$0			\$0	\$0	\$0		\$0	\$0				
TOTAL BU		\$33,800	\$0	\$0	-		\$33,800	\$0	\$0			\$0	\$33,800			
TOTAL BU	DGET	\$33,800	φU	φU	<b>\$</b> 0	<b>\$</b> 0	\$33,800	φU	φU	φU	φU	φU	\$33,800	1	I	1 1
10400	INTERIOR & EXT SIGNAGE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		1	1	
	1 Code signage allowance	\$5,000	\$0	\$0		\$0	\$5,000	\$0	\$0		\$0	\$0			JBD Budget	
	2	\$0	\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0			Ŭ	
	3	\$0	\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0				1
	4	\$0	\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0				
	5	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
	6	\$0	\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0		1	1	
	7	\$0	\$0	\$0		\$0 \$0	\$0	\$0	\$0		\$0	\$0		1	1	
	8	\$0	\$0	\$0			\$0 \$0	\$0 \$0	\$0		\$0 \$0	\$0	1			<u> </u>
	9	\$0	\$0	\$0			\$0	\$0	\$0		\$0	\$0				
	10	\$0	\$0	\$0		\$0 \$0	\$0	\$0	\$0		\$0	\$0				
					-											
TOTAL BU	DGET	\$5,000	\$0	\$0	\$0	\$0	\$5,000	\$0	\$0	\$0	\$0	\$0	\$5,000	1		1 1
14200	ELEVATOR	\$0		\$0			\$0	\$0	\$0		\$0	\$0				
	1 NA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			NA	
	2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
	3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
	4	\$0	\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0				
	5	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
	6	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
	7	\$0		\$0		\$0	\$0	\$0	\$0		\$0	\$0				
	8	\$0		\$0			\$0		\$0		\$0	\$0				
	9	\$0		\$0			\$0	\$0	\$0		\$0	\$0				
	10	\$0		\$0		\$0	\$0	\$0	\$0		\$0	\$0				
							\$0					\$0	<u>^</u>			1
TOTAL BU	DGET	\$0	\$U	\$0	\$0	\$0	<b>\$</b> U	\$0	\$0	<u>۵</u> ۵	\$U	\$0	\$0	1	l	1 1
														•		
15200	PLUMBING	\$0		\$0		\$0	\$0	\$0	\$0		\$0	\$0				
	1 Base Plumbing	\$55,000	\$0	\$0			\$55,000	\$0	\$0		\$0	\$0			JBD Budget	
	2	\$0	\$0	\$0			\$0	\$0	\$0		\$0	\$0				
	3	\$0	\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0				
	4	\$0	\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0				
	5	\$0	\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0				
	6	\$0	\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0				
	7	\$0	\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0				
	8	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0				
	9	\$0	\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0				
	10	\$0	\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0				
TOTAL BU	DGET	\$55,000	\$0	\$0	\$0	\$0	\$55,000	\$0	\$0	\$0	\$0	\$0	\$55,000			1
TOTAL BU	DGET	\$55,000	φU	φU	<b>\$</b> 0	<b>\$</b> 0	\$55,000	φU	φU	φU	φU	φU	\$55,000	J	I	1 1
										1					1	
15300	FIRE PROTECTION	\$0		\$0		\$0	\$0	\$0	\$0		\$0	\$0				
	1 Fire Supession	\$70,000	\$0	\$0	\$0	\$0	\$70,000	\$0	\$0		\$0	\$0			JBD Budget	
	5 Fire Alarm / Methane System	\$20,000	\$0	\$0		\$0	\$20,000	\$0	\$0		\$0	\$0			JBD Budget	
	6	\$0	\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0				
	7	\$0	\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0				
	8	\$0	\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0				
	9	\$0	\$0	\$0		\$0	\$0	\$0	\$0		\$0	\$0				
	10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
TOTAL BU	DGET	\$90,000	\$0	\$0	\$0	\$0	\$90,000	\$0	\$0	\$0	\$0	\$0	\$90.000	1		
. OTAL DO		<b>\$50,500</b>	φ¢	40	ψΨ	φu	<b>\$30,000</b>	ΨU	ψŪ	φ <b>υ</b>	ψŪ	ΨŪ	<i>\$30,000</i>	1	I	1 1

SPEC	DESCRIPTION	ORIGINAL	. BUDGET	REALLOCATE	PENDING	APPROVED	REVISED	CONTRACTS	AWARDED	PENDING	REMAINING	PROJECTED	UNDERRUN	SF COSTS	SUBCONTRACTOR	CONTROL
SEC		CORE/SHELL	TENANT	BUDGET	CHANGES	CHANGES	BUDGET	CORE / SHELL	TENANT	COMMITMENTS	TO AWARD	TOTAL	(OVERRUN)			NUMBER
15500	HVAC	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
	1 HVAC offices	\$56,000	\$0	\$0	\$0	\$0	\$56,000	\$0	\$0	\$0	\$0	\$0			JBD Budget	
	2 Shop	\$32,000	\$0	\$0	\$0	\$0	\$32,000	\$0	\$0	\$0	\$0	\$0			JBD Budget	
	3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
	4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
	5	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
	6	\$0	\$0		\$0	\$0	\$0	\$0	\$0		\$0	\$0				
	7	\$0	\$0		\$0	\$0	\$0	\$0	\$0		\$0	\$0				
	8	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
	9	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
	10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
TOTAL BU	DGET	\$88,000	\$0	\$0	\$0	\$0	\$88,000	\$0	\$0	\$0	\$0	\$0	\$88,000			i i
																• •
16000	ELECTRICAL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			1	
	1 office	\$70,000	\$0	\$0	\$0	\$0	\$70,000	\$0	\$0	\$0	\$0	\$0			JBD Budget	
	2 shop	\$128,000	\$0	\$0	\$0	\$0	\$128,000	\$0	\$0	\$0	\$0	\$0			JBD Budget	
	3 Light Poles	\$48,000	\$0	\$0	\$0	\$0	\$48,000	\$0	\$0	\$0	\$0	\$0			JBD Budget	
	4 DTE Transformer & Fee	\$42,000	\$0	\$0	\$0	\$0	\$42,000	\$0	\$0	\$0	\$0	\$0			JBD Budget	
	5	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
	6	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
	7	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
	8	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
	9	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
	10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
TOTAL BU	DGET	\$288,000	\$0	\$0	\$0	\$0	\$288,000	\$0	\$0	\$0	\$0	\$0	\$288,000			
		,											,,	1		

Comerica Bank

**COMERICA BANK** MC 7962 29201 TELEGRAPH ROAD, SUITE 611, SOUTHFIELD, MI 48034

> Small Business - North West 29201 Telegraph Road Suite 611 Southfield, MI 48034 (248) 223-4413 mhetherwick@comerica.com

Matthew Hetherwick Vice President

April 21, 2014

To whom it may concern,

This letter is to confirm that General Trucking, Inc. based out of Warren, MI has been a client of Comerica Bank since 2012 and is in good standing.

The owners of the company have brought it to our attention their intentions to build a new headquarters in Rochester Hills. We are currently reviewing the information in hopes of financing the project.

Sincerely,

Matthew Hetherwick Vice President Comerica Bank

# Attachment E Cont.

Project Pro-Forma and Financials MEDC Template – NO Tax Increment Financing

## REVENUE

Development Name: General Trucking - NO TIF City/Township/Village: Rochester Hills County: Oakland Construction Type: Adaptive Reuse/New Construction Property Type: Other

#### Fill in all blue shaded input cells

## \*CONFIDENTIAL\*

This worksheet is utilized as an input page only with information being utilized to populate information within the "Proforma" and "Cash Flow" worksheets.

#### **DEVELOPMENT INCOME ASSUMPTIONS**

OTHER INCOME AND ASSUMPTIONS (Including hotels)

Desrciption

Parking

TOTALS:

RESIDENTIAL RENT	'S							
					Gross Ann.	Vacancy	Net Ann.	
Unit Type	# Units	Baths	Sq. Ft.	Mo. Rent	Rent	Loss	Rent	Total Sq. Ft
					\$0	\$0	\$0	0
					\$0	\$0	\$0	0
					\$0	\$0	\$0	0
					\$0	\$0	\$0	0
					\$0	\$0	\$0	0
					\$0	\$0	\$0	0
					\$0	\$0	\$0	0
					\$0	\$0	\$0	0
					\$0	\$0	\$0	0
					\$0	\$0	\$0	0
TOTALS:					\$0	\$0	\$0	0

	Year 2	Year 3	Future
RESIDENTIAL	Inflation	Inflation	Inflation
ASSUMPTIONS	Factor	Factor	Factor
Rent Increase	2.0%	2.0%	2.0%
	Stabilized		
Vacany Rate	5.0%		

COMMERCIAL/OFFICE RENTS					
			Gross Ann.	Vacancy	Net Ann.
Description	Sq. Ft.	Rent/Sq. Ft.	Rent	Loss	Rent
Facility and parking	40,000	\$5.50	\$220,000	\$0	\$220,000
			\$0	\$0	\$0
			\$0	\$0	\$0
			\$0	\$0	\$0
			\$0	\$0	\$0
			\$0	\$0	\$0
			\$0	\$0	\$0
			\$0	\$0	\$0
			\$0	\$0	\$0
			\$0	\$0	\$0
TOTALS:	40,000		\$220,000	\$0	\$220,000

Annual

Income

\$36,000

\$36,000

\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0

Monthly

Income

\$3,000

\$3,000

Year 2

Inflation

Factor

1.5%

Year 3

Inflation

Factor

1.5%

Future

Inflation

Factor

1.5%

	Year 2	Year 3	Future
COMMERCIAL	Inflation	Inflation	Inflation
ASSUMPTIONS	Factor	Factor	Factor
Rent Increase	1.5%	1.5%	1.5%
	Stabilized		
Vacany Rate	0.0%		



#### STABILIZED OPERATING STATEMENT

Development Name: General Trucking - NO TIF City/Township/Village: Rochester Hills County: Oakland Construction Type: Adaptive Reuse/New Construction Property Type: Other

DEVELOPMENT INCOME

Annual Other Income

Gross Income

Annual Gross Residental Rental Income

Annual Gross Commercial Rental Income

Vacancy Loss (Residential and Commercial)



This worksheet is utilized to proforma out the stablized operations of the project utilizing the projected initial rental rates, the stablized vacancy rates, and the anticipated full operating expenses of the project.

% Eff.

0.0%

85.9%

14.1%

0.0%

100.0%

0.0%

85.9%

14.1%

0.0%

100.0%

\$0

\$0

\$220,000

\$36,000

\$256,000

Net Rent Poten	tial		\$256,000	100.0%	100.0%	
DEVELOPN	VENT OPERATING EXPEN	NSES		% Gross	% Eff.	Inflation Factor
Administrative	Expenses	+	\$5,000	2.0%	2.0%	3.0%
Managem		-	+=,===	0.0%	0.0%	
Office Payr				0.0%	0.0%	
Payroll Tax				0.0%	0.0%	
· ·	/orker's Comp.			0.0%	0.0%	
	/Marketing			0.0%	0.0%	
Legal /Acc			\$5,000	2.0%	2.0%	
General Of	-		, . ,	0.0%	0.0%	
Other:				0.0%	0.0%	
Other:		_		0.0%	0.0%	
Utilities		+	\$0	0.0%	0.0%	3.0%
Electricity				0.0%	0.0%	
Fuel				0.0%	0.0%	
Water & Se	ewer	-		0.0%	0.0%	
Maintenance/N	Ion-Capitalized Repairs	+	\$0	0.0%	0.0%	3.0%
Maintenar	ce/Janitorial Payroll			0.0%	0.0%	
Janitorial .	Supplies			0.0%	0.0%	
Exterminat	tion			0.0%	0.0%	
Rubbish Re	emoval			0.0%	0.0%	
Snow Rem	oval			0.0%	0.0%	
Lawn/Tree	Maintenance			0.0%	0.0%	
Parking Lo	t Repairs			0.0%	0.0%	
Painting/D	ecorations/Cleaning			0.0%	0.0%	
Heating &	Air Repairs			0.0%	0.0%	
Plumbing/	Electrical Repairs			0.0%	0.0%	
Elevator M	laintenance			0.0%	0.0%	
Vehicle/Eq	uipment Maintenance			0.0%	0.0%	
Security				0.0%	0.0%	
Other:				0.0%	0.0%	
Other:		_		0.0%	0.0%	
Real Estate Tax			\$40,000	15.6%	15.6%	3.0%
Tax Abatement				0.0%	0.0%	
Property & Liab				0.0%	0.0%	3.0%
Reserve Requir	ements			0.0%	0.0%	3.0%
Other:				0.0%	0.0%	3.0%
Other:				0.0%	0.0%	3.0%
Total Expenses			\$45,000	17.6%	17.6%	
Cash Flow Avai	lable for Debt Service / NOI		\$211,000	82.4%	82.4%	
Amortizing Loa	ns					
Loan 1 DS:	Mortgage		\$218,601	85.4%	85.4%	
Loan 2 DS:	xxx		\$0	0.0%	0.0%	
						Required
CRP Loan Debt	Service		\$0	0.0%	0.0%	DSCR 1.30
	lable for Distribution		(\$7,601)	-3.0%	-3.0%	
Cush HOW AVdi			(\$7,001)	-3.0%	5.070	
Debt Service Co	overage Ratio		0.97			

			Amort.	Interest	
LOAN TERMS	Loan Amount	Term Yrs.	Yrs.	Rate	Refi. Rate
Mortgage	\$3,415,000	10	25	4.00%	6.00%
ххх		5	20	5.50%	7.50%
	Override				
	\$0	(if request	ing a grant	input \$0)	
CRP Conventional Loan	\$0	5	20	1.00%	3.00%

 $\mathbf{T}$ 

#### DEVELOPMENT BUDGET

Development Name: General Trucking - NO TIF City/Township/Village: Rochester Hills County: Oakland Construction Type: Adaptive Reuse/New Construction Property Type: Other

TOTAL DEVELOPMENT COSTS Acquisition

Land

# Fill in all blue shaded input cells

% of TDC

9.65%

\$400,000

#### \*CONFIDENTIAL\*

This worksheet is utilized to input the total Sources & Uses for the project from acquisitioin to construction completion. In addition, the maximum amount of MCRP Incentive the project is eligible for is calculated.

> nvestment \$858,962

Land		\$400,000	9.65%				
Building(s)			0.00%				
Demolition			0.00%				
Other:			0.00%				
Subtotal A	cquisiton	\$400,000	9.65%	Ineligible			
Construction Costs				Amt.	Eligible Basis		
Site Work	+	\$1,158,828	27.96%	\$0	\$1,158,828		
Environmental Mitigation		+-//	0.00%	\$0	\$0		
Earth Work/Demolition		\$332,310	8.02%	\$0	\$332,310		
Roads/Walks		\$417,294	10.07%	\$0	\$417,294		
Site Utilities		\$341,663	8.24%	\$0	\$341,663		
Site Improvements			0.00%	\$0	\$0		
Landscaping		\$67,561	1.63%	\$0	\$67,561		
Irrigation			0.00%	\$0	\$0		
Other:	- 1		0.00%	\$0	\$0		
Structures	+	\$1,846,653	44.55%	\$0	\$1,846,653		
Building Concrete/Masonry		\$546,471	13.18%	\$0	\$546,471		
Carpentry		\$83,950	2.03%	\$0	\$83,950		
Roofing/Metal/Siding/Insulation/Caulking		\$521,432	12.58%	\$0	\$521,432		
Doors/Windows/Glass		\$12,750	0.31%	\$0	\$12,750		
Drywall/Acoustical		494 750	0.00%	\$0	\$0		
Flooring		\$24,750	0.60%	\$0	\$24,750		
Cabinets/Countertops/Applicances		634 500	0.00%	\$0	\$0		
Painting/Decorating/Furnishings		\$34,500	0.83% 10.45%	\$0 \$0	\$34,500		
Plumbing/Electrical/Fire Protection		\$433,000	2.12%	\$0 \$0	\$433,000		
HVAC Accessory Buildings/Garages		\$88,000	2.12%	\$0 \$0	\$88,000 \$0	1	
Accessory Builaings/Garages Elevators/Special Equipment		\$33,800	0.00%	\$0 \$0	\$0 \$33,800		
Elevators/Special Equipment Tenant Upgrades		\$53,8UU	0.82%	\$0 \$0	\$33,800 \$0	1	
Other: Quality Control		\$20,000	0.00%	\$0 \$0	\$0 \$20,000		
Other: Alum. Entrances/Storefront	_	\$20,000 \$48,000	1.16%	\$0 \$0	\$20,000 \$48,000		
General Requirements		\$120,000	2.90%	\$0	\$120,000	1	
Builder's Overhead		\$120,000	0.00%	\$0	\$120,000		
Builder's Profit			0.00%	\$0	\$0		
Site Security			0.00%	\$0	\$0		
Permits/Tap Fees/Bond/Cost Certification		\$50,000	1.21%	\$0	\$50,000		
Construction Contingency		\$118,868	2.87%	\$0	\$118,868		
Other: New Equipment		\$50,000	1.21%	\$0	\$50,000		
Subtotal Construct	tion Costs	\$3,344,349	80.68%				
Survey Legal/Accounting Environmental Studies/Soiling Testing Market Study Appraisal Cost Certification		\$15,000	0.36% 0.00% 0.00% 0.00% 0.00%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$15,000 \$0 \$0 \$0 \$0 \$0 \$0	Total Eligible Basis	N In
Other: Gas/Electric Co. Fees		\$6,500	0.16%	\$0	\$6,500	\$3,435,849	
Subtotal Professi	onal Fees	\$91,500	2.21%				_
							_
Interim Construction Costs							TOT
Construction Loan Fee		40	0.00%	Override	1		Sen
	nos.	\$0	0.00%				
Construction Taxes Construction Insurance			0.00%				
Title Work			0.00%				
Other:			0.00%				Sub
Subtotal Interim Construct	tion Costs	\$0	0.00%				Sub
Subtotal internit construct	0011 00313	ΰ	0.00%				
Permanent Financing Costs							
Permanent Loan Fees			0.00%				
CRP Fees			0.00%				Def
Title Work			0.00%				
Other:			0.00%				
Subtotal Permanent Finan	cing Costs	\$0	0.00%				
Developer and Consulting Fees			0.000/				
Developer Fee			0.00%				
Project Management Fees			0.00%				
Construction Management Fees			0.00%				
Constulting Fees Other Related Party Fees							
Other Related Party Fees Other: Broker Fee		\$50,000	0.00%			г	Con
Subtotal Developer and Consu	Iting Fees	\$50,000	1.21%				Con
Subtotal Developer and consu	ining rees	<i>\$30,000</i>	1.21/0				
Reserves				Override			
	nos.	\$0	0.00%		1		Sou
Replacement Reserve			0.00%				
Operating Reserve			0.00%				
Other:			0.00%			ĺ	
Other:			0.00%				
Subtotal	-						Oth
Sublota	Reserves	\$0	0.00%				
	Reserves	\$0	0.00%				
Miscellaneous	Reserves						
Miscellaneous Other: Pre-development Fees	Reserves	\$25,000	0.60%				
Miscellaneous	Reserves						

\$209,151 \$259,151 \$4,145,000

Subtotal Miscellaneo

TOTAL DEVELOPMENT COSTS

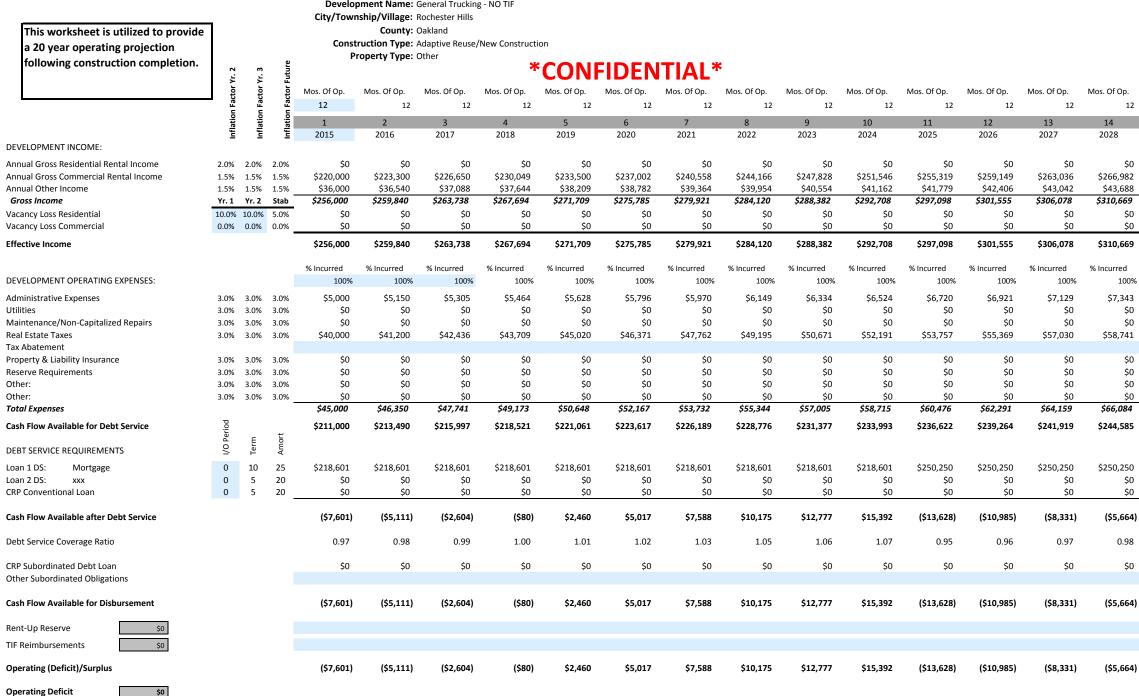
5.05% 6.25%

100.00%

TOTAL DEVELOPMENT SOURCES		
Senior Debt	Amount	% of TDC
Mortgage	\$3,415,000	82.399
XXX	\$0	0.009
XXX	\$0	0.009
CRP Conventional Loan	\$0	0.009
Subordinate Debt/Grants		
CRP Subordinate Loan/Grant		0.009
Other:		0.009
Other:		0.009
Other:		0.009
Deferred Fees/Cash Equity		
Deferred Developer Fees		0.009
Other Deferred Related Party Fees		0.009
Deferred Consulting Fees		0.009
Cash Equity Owner	\$500,000	12.069
Land/Building Contribution Owner		0.009
TIF Contributions		0.009
Other:		0.009
Other:		0.009
TOTAL DEVELOPMENT SOURCES	\$3,915,000	94.45%
Construction Loan: xxx Interest Rate: 0.00%	\$0	0.009
Sources & Uses		
	\$4,145,000	
Sources & Uses Total Development Costs Total Development Sources	\$3,915,000	
Sources & Uses Total Development Costs		
Sources & Uses Total Development Costs Total Development Sources Surplus/(Gap)	\$3,915,000	
Sources & Uses Total Development Costs Total Development Sources Surplus/(Gap) Other Calculations	\$3,915,000 (\$230,000)	Develop
Sources & Uses Total Development Costs Total Development Sources Surplus/(Gap)	\$3,915,000 (\$230,000) Construct	Develop Cost/S.E.
Sources & Uses Total Development Costs Total Development Sources Surplus/(Gap) Dther Calculations Rental S.F. 40,000	\$3,915,000 (\$230,000)	Cost/S.F.
Sources & Uses Total Development Costs Total Development Sources Surplus/(Gap) Other Calculations Rental S.F. 40,000 Other S.F.	\$3,915,000 (\$230,000) Construct Cost /S.F	Cost/S.F.
Sources & Uses Total Development Costs Total Development Sources Surplus/(Gap) Other Calculations Rental S.F. 40,000 Other S.F.	\$3,915,000 (\$230,000) Construct Cost /S.F	Cost/S.F.
Sources & Uses Total Development Costs Total Development Sources Surplus/(Gap) Other Calculations Rental S.F. 40,000 Other S.F.	\$3,915,000 (\$230,000) Construct Cost /S.F	Cost/S.F. \$103.63 % TDC
Sources & Uses           Total Development Costs           Total Development Sources           Surplus/(Gap)           Other Calculations           Rental S.F.         40,000           Other S.F.         40,000	\$3,915,000 (\$230,000) Construct Cost /S.F \$83.61	Cost/S.F. \$103.63 <u>% TDC</u> 12.069
Sources & Uses Total Development Costs Total Development Sources Surplus/(Gap) Other Calculations Rental S.F. 40,000 Other S.F. 40,000 Cher S.F. 40,000 Cash Equity	\$3,915,000 (\$230,000) Construct Cost /S.F \$83.61 \$500,000	Cost/S.F. \$103.63 % TDC 12.069 0.009
Sources & Uses Total Development Costs Total Development Sources Surplus/(Gap) Other Calculations Rental S.F. 40,000 Other S.F. 40,000 Other S.F. 40,000 Cash Equity Land/Building Contribution Owner Contribution	\$3,915,000 (\$230,000) Construct Cost/S.F \$83.61 \$500,000 \$0 <b>\$500,000</b>	Cost/S.F. \$103.63 % TDC 12.069 0.009
Sources & Uses           Total Development Costs           Total Development Sources           Surplus/(Gap)           Other Calculations           Rental S.F.         40,000           Other S.F.         40,000           Cash Equity         Land/Building Contribution           Owner Contribution         Cash IRR	\$3,915,000 (\$230,000) Construct Cost /S.F \$83.61 \$500,000 50 \$500,000 2.1%	Cost/S.F. \$103.63 % TDC 12.069 0.009
Sources & Uses Total Development Costs Total Development Sources Surplus/(Gap) Other Calculations Rental S.F. 40,000 Other S.F. 40,000 Other S.F. 40,000 Cash Equity Land/Building Contribution Owner Contribution	\$3,915,000 (\$230,000) Construct Cost/S.F \$83.61 \$500,000 \$0 <b>\$500,000</b>	Cost/S.F. \$103.63
Sources & Uses           Total Development Costs           Total Development Sources           Surplus/(Gap)           Other Calculations           Rental S.F.         40,000           Other S.F.         40,000           Cash Equity         Land/Building Contribution           Owner Contribution         Cash IRR	\$3,915,000 (\$230,000) Construct Cost /S.F \$83.61 \$500,000 50 \$500,000 2.1%	Cost/S.F. \$103.63 % TDC 12.069 0.009



## **PROJECT CASH FLOW**





Development Name: General Trucking - NO TIF

Fill in all blue shaded inputs cells

	Т	CONF	-IDEN	IIAL <sup>*</sup>	•	
	Mos. Of Op.	Mos. Of Op.	Mos. Of Op.	Mos. Of Op.	Mos. Of Op.	Mos. Of Op.
	12	12	12	12	12	12
	15	16	17	18	19	20
	2029	2030	2031	2032	2033	2034
	\$0	\$0	\$0	\$0	\$0	\$0
	\$270,986	\$275,051	\$279,177	\$283,364	\$287,615	\$291,929
	\$44,343	\$45,008	\$45,683	\$46,369	\$47,064	\$47,770
	\$315,329	\$320,059	\$324,860	\$329,733	\$334,679	\$339,699
	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0	\$0	\$0
	\$315,329	\$320,059	\$324,860	\$329,733	\$334,679	\$339,699
	% Incurred	% Incurred	% Incurred	% Incurred	% Incurred	% Incurred
	100%	100%	100%	100%	100%	100%
	\$7,563	\$7,790	\$8,024	\$8,264	\$8,512	\$8,768
	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0	\$0	\$0
	\$60,504	\$62,319	\$64,188	\$66,114	\$68,097	\$70,140
	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0	\$0	\$0
	\$68,067	\$70,109	\$72,212	\$74,378	\$76,609	\$78,908
	\$247,263	\$249,951	\$252,649	\$255,355	\$258,070	\$260,792
	\$250,250	\$250,250	\$250,250	\$250,250	\$250,250	\$250,250
	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0	\$0	\$0
	(\$2,987)	(\$299)	\$2,399	\$5,105	\$7,820	\$10,542
	0.99	1.00	1.01	1.02	1.03	1.04
	\$0	\$0	\$0	\$0	\$0	\$0
)	(\$2,987)	(\$299)	\$2,399	\$5,105	\$7,820	\$10,542
	(\$2,987)	(\$299)	\$2,399	\$5,105	\$7,820	\$10,542

\*CONFIDENTIAL\*

Amortizati	on Sched	ules	-					[	Fill in all b	lue shaded in	outs cells											
City/Tov Con:	opment Name: Gene wnship/Village: Roch County: Oakla struction Type: Adap Property Type: Othe	ester Hills and tive Reuse/New Construction		amortizatio and MCRP other large	heet is utiliz on schedule loan incenti principal pa this worksl	for all seni itives. In ac aydowns ca	ldition,	*	CONF	YES <b>T</b>	ITIAL	*				*	CONI	FIDEN	ITIAL	*		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
			2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Loan 1: Mortgage Amount: Interest Rate: Term:	\$3,415,000 4.00% 10	Principal Payment Interest Payment Total Payment	\$82,001 \$136,600 \$218,601	\$85,281 \$133,320 \$218,601	\$88,692 \$129,909 \$218,601	\$92,240 \$126,361 \$218,601	\$95,929 \$122,671 \$218,601	\$99,767 \$118,834 \$218,601	\$103,757 \$114,844 \$218,601	\$107,908 \$110,693 \$218,601	\$112,224 \$106,377 \$218,601	\$116,713 \$101,888 \$218,601	\$104,421 \$145,829 \$250,250	\$110,686 \$139,564 \$250,250	\$117,327 \$132,923 \$250,250	\$124,367 \$125,883 \$250,250	\$131,829 \$118,421 \$250,250	\$139,738 \$110,512 \$250,250	\$148,123 \$102,127 \$250,250	\$157,010 \$93,240 \$250,250	\$166,430 \$83,819 \$250,250	\$176,416 \$73,834 \$250,250
I/O Period: Amortization:	0 25	Other Principal Payments																				
Amortization.	23	Cumulative Principal Payments	\$82,001	\$167,282	\$255,974	\$348,214	\$444,143	\$543,910	\$647,667	\$755,574	\$867,798	\$984,511	\$1,088,932	\$1,199,617	\$1,316,944	\$1,441,311	\$1,573,139	\$1,712,877	\$1,861,000	\$2,018,010	\$2,184,440	\$2,360,857
		Prinicipal Balance	\$3,332,999	\$3,247,718	\$3,159,026	\$3,066,786	\$2,970,857	\$2,871,090	\$2,767,333	\$2,659,426	\$2,547,202	\$2,430,489	\$2,326,068	\$2,215,383	\$2,098,056	\$1,973,689	\$1,841,861	\$1,702,123	\$1,554,000	\$1,396,990	\$1,230,560	\$1,054,143
Loan 2: xxx Amount:	\$0	Principal Payment Interest Payment	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Interest Rate:	5.50%	Total Payment	<u>\$0</u> \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0
Term: I/O Period:	5 0	Other Principal Payments																				
Amortization:	20	Cumulative Principal Payments	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Prinicipal Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Loan CRP: CRP Conventio Amount:	nal Loan \$0	Principal Payment Interest Payment	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Interest Rate:	1.00%	Total Payment	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0	\$0	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0
Term: I/O Period:	0	Other Principal Payments																				
Amortization:	20	Cumulative Principal Payments	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Prinicipal Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Loan CRP: CRP Subordina		Beg. Principal Balance	\$0			\$0	\$0	\$0	\$0		\$0	\$0				\$0				\$0		
Amount: Interest Rate	\$0	Interest Charge	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Term: First Payment:		Scheduled Payment Other Payments	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Payment: % of Cash Flow	1	Loan Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

## **DEVELOPER INVESTMENT RETURNS**

Development Name: General Trucking - NO TIF City/Township/Village: Rochester Hills

County: Oakland

Construction Type: Adaptive Reuse/New Construction

Property Type: Other

					_
CC				TI/	<b>4L</b> *
	JIN	ГІЛ	/EIN		

Property Sales Assumptions	
Capitalization Rate	9.00%
Year of Sale	25
Sale Expenses (% of sale price)	5.0%

This worksheet utilized to calculate a rough estimate of anticipated developer return. In additon, a proposed sales date and other owner cash investments in the project following construction completion can be entered on this worksheet.

Fill in all blue shaded input cells

#### **Developer Return Analysis**

								Cash on	Return on
	Cash	Net Developer			Net Cash	Land/Building	Net Developer	Cash	Owner
Year	Investment	Fees Rec'd	Cash flow	Sale Proceeds	Investment	Investment	Investment	Return	Equity
0	\$500,000	\$0	\$0	\$0	(\$500,000)	\$0	(\$500,000)		
1		\$0	\$0	\$0	\$0	\$0	\$0	0.0%	0.0%
2		\$0	\$0	\$0	\$0	\$0	\$0	0.0%	0.0%
3		\$0	\$0	\$0	\$0	\$0	\$0	0.0%	0.0%
4		\$0	\$0	\$0	\$0	\$0	\$0	0.0%	0.0%
5		\$0	\$2,460	\$0	\$2,460	\$0	\$2,460	0.5%	0.5%
6		\$0	\$5,017	\$0	\$5,017	\$0	\$5,017	1.0%	1.0%
7		\$0	\$7,588	\$0	\$7,588	\$0	\$7,588	1.5%	1.5%
8		\$0	\$10,175	\$0	\$10,175	\$0	\$10,175	2.0%	2.0%
9		\$0	\$12,777	\$0	\$12,777	\$0	\$12,777	2.6%	2.6%
10		\$0	\$15,392	\$0	\$15,392	\$0	\$15,392	3.1%	3.1%
11		\$0	\$0	\$0	\$0	\$0	\$0	0.0%	0.0%
12		\$0	\$0	\$0	\$0	\$0	\$0	0.0%	0.0%
13		\$0	\$0	\$0	\$0	\$0	\$0	0.0%	0.0%
14		\$0	\$0	\$0	\$0	\$0	\$0	0.0%	0.0%
15		\$0	\$0	\$0	\$0	\$0	\$0	0.0%	0.0%
16		\$0	\$0	\$0	\$0	\$0	\$0	0.0%	0.0%
17		\$0	\$2,399	\$0	\$2,399	\$0	\$2,399	0.5%	0.5%
18		\$0	\$5,105	\$0	\$5,105	\$0	\$5,105	1.0%	1.0%
19		\$0	\$7,820	\$0	\$7,820	\$0	\$7,820	1.6%	1.6%
20		\$0	\$10,542	\$0	\$10,542	\$0	\$10,542	2.1%	2.1%
	\$500,000	\$0	\$79,274	\$0	\$79,274	\$0	\$79,274	0.63%	0.63%

-12.54%

IRR =

IRR =

-12.54%

Calculation of Sales Proceeds								
Net Operating Income (year before sale)	#REF!							
Capitalization Rate	9.00%							
Real Estate Value	#REF!							
Less: Sale Expenses	#REF!							
Net Sale Proceeds	#REF!							
Less: Outstanding Debt								
Mortgage	#REF!							
XXX	#REF!							
XXX	#REF!							
CRP Conventional Loan	#REF!							
Other Debt Obligations								
Proceeds Available for Distributions	#REF!							

YES 🔻

# Attachment E Cont.

Project Pro-Forma and Financials MEDC Template – With Tax Increment Financing

# REVENUE

Development Name:General Trucking - With TIFCity/Township/Village:Rochester HillsCounty:OaklandConstruction Type:Adaptive Reuse/New ConstructionProperty Type:Other

# Fill in all blue shaded input cells \*CONFIDENTIAL\*

This worksheet is utilized as an input page only with information being utilized to populate information within the "Proforma" and "Cash Flow" worksheets.

## **DEVELOPMENT INCOME ASSUMPTIONS**

RESIDENTIAL RENTS									
					Gross Ann.	Vacancy	Net Ann.		
Unit Type	# Units	Baths	Sq. Ft.	Mo. Rent	Rent	Loss	Rent	Total Sq. Ft	
					\$0	\$0	\$0	0	
					\$0	\$0	\$0	0	
					\$0	\$0	\$0	0	
					\$0	\$0	\$0	0	
					\$0	\$0	\$0	0	
					\$0	\$0	\$0	0	
					\$0	\$0	\$0	0	
					\$0	\$0	\$0	0	
					\$0	\$0	\$0	0	
					\$0	\$0	\$0	0	
TOTALS:					\$0	\$0	\$0	0	

	Year 2	Year 3	Futur
RESIDENTIAL	Inflation	Inflation	Inflatio
ASSUMPTIONS	Factor	Factor	Facto
Rent Increase	2.0%	2.0%	2.0%
	Stabilized		
Vacany Rate	5.0%		

	Year 2	Year 3	Futur
COMMERCIAL	Inflation	Inflation	Inflati
ASSUMPTIONS	Factor	Factor	Facto
Rent Increase	1.5%	1.5%	1.5%
	Stabilized		
Vacany Rate	0.0%		

COMMERCIAL/OFFICE RENTS					
			Gross Ann.	Vacancy	Net Ann.
Description	Sq. Ft.	Rent/Sq. Ft.	Rent	Loss	Rent
Facility and parking	40,000	\$5.50	\$220,000	\$0	\$220,000
			\$0	\$0	\$0
			\$0	\$0	\$0
			\$0	\$0	\$0
			\$0	\$0	\$0
			\$0	\$0	\$0
			\$0	\$0	\$0
			\$0	\$0	\$0
			\$0	\$0	\$0
			\$0	\$0	\$0
TOTALS:	40,000		\$220,000	\$0	\$220,000

OTHER INCOME AND ASSUMPTIONS (	Year 2	Year 3	Future		
	Monthly	Annual	Inflation	Inflation	Inflation
Desrciption	Income	Income	Factor	Factor	Factor
Parking	\$3,000	\$36,000	1.5%	1.5%	1.5%
		\$0			
		\$0			
		\$0			
		\$0			
		\$0			
		\$0			
		\$0			
		\$0			
		\$0			
TOTALS:	\$3,000	\$36,000			



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re on or

#### STABILIZED OPERATING STATEMENT

Development Name: General Trucking - With TIF City/Township/Village: Rochester Hills County: Oakland Construction Type: Adaptive Reuse/New Construction Property Type: Other

DEVELOPMENT INCOME

Annual Other Income

Gross Income

Annual Gross Residental Rental Income

Annual Gross Commercial Rental Income

Vacancy Loss (Residential and Commercial)



This worksheet is utilized to proforma out the stablized operations of the project utilizing the projected initial rental rates, the stablized vacancy rates, and the anticipated full operating expenses of the project.

% Eff.

0.0%

85.9%

14.1%

0.0%

100.0%

0.0%

85.9%

14.1%

0.0%

100.0%

\$0

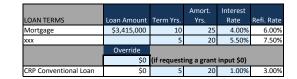
\$0

\$220,000

\$36.000

\$256,000

10001109 2000 (1	lesidential and commercially		φö	0.070	0.070	
Net Rent Potential			\$256,000	100.0%	100.0%	
DEVELOPN	IENT OPERATING EXPE	NSES		% Gross	% Eff.	Inflation Factor
Administrative	Expenses	+	\$5,000	2.0%	2.0%	3.0%
Managem				0.0%	0.0%	
Office Payr				0.0%	0.0%	
Payroll Tax				0.0%	0.0%	
	/orker's Comp.			0.0%	0.0%	
	g/Marketing			0.0%	0.0%	
Legal /Acc	-		\$5,000	2.0%	2.0%	
General Of	-		\$3,000	0.0%	0.0%	
Other:	Jice			0.0%	0.0%	
Other:				0.0%	0.0%	
Utilities			\$0	0.0%	0.0%	3.0%
Electricity		-	ŞU	0.0%	0.0%	5.0%
Fuel				0.0%	0.0%	
Water & Se			40	0.0%	0.0%	0.011
	Ion-Capitalized Repairs	-	\$0	0.0%	0.0%	3.0%
	ce/Janitorial Payroll			0.0%	0.0%	
Janitorial				0.0%	0.0%	
Exterminat				0.0%	0.0%	
Rubbish Re				0.0%	0.0%	
Snow Rem				0.0%	0.0%	
	Maintenance			0.0%	0.0%	
Parking Lo	t Repairs			0.0%	0.0%	
Painting/D	ecorations/Cleaning			0.0%	0.0%	
Heating &	Air Repairs			0.0%	0.0%	
Plumbing/	Electrical Repairs			0.0%	0.0%	
Elevator M	laintenance			0.0%	0.0%	
Vehicle/Eq	uipment Maintenance			0.0%	0.0%	
Security				0.0%	0.0%	
Other:				0.0%	0.0%	
Other:		—		0.0%	0.0%	
Real Estate Tax	es		\$40,000	15.6%	15.6%	3.0%
Tax Abatement			(\$30,000)	-11.7%	-11.7%	
Property & Liab	ility Insurance			0.0%	0.0%	3.0%
Reserve Requir	ements			0.0%	0.0%	3.0%
Other:				0.0%	0.0%	3.0%
Other:				0.0%	0.0%	3.0%
Total Expenses			\$15,000	5.9%	5.9%	
Cash Flow Avai	lable for Debt Service / NOI		\$241,000	94.1%	94.1%	
Amortizing Loa	ns					
Loan 1 DS:	Mortgage		\$218,601	85.4%	85.4%	
Loan 2 DS:	xxx		\$0	0.0%	0.0%	
200112 001	<i>international and an and an </i>		ŶŬ	0.070	0.070	Required
600 L	<b>C</b> = 1 = 1				0.000	DSCR
CRP Loan Debt			\$0	0.0%	0.0%	1.30
Cash Flow Avai	lable for Distribution		\$22,399	8.7%	8.7%	
Debt Service Co	overage Ratio	1.10				



•

#### DEVELOPMENT BUDGET

Development Name: General Trucking - With TIF City/Township/Village: Rochester Hills County: Oakland Construction Type: Adaptive Reuse/New Construction Property Type: Other

TOTAL DEVELOPMENT COSTS
Acquisition

Land

# Fill in all blue shaded input cells

% of TDC

9.65%

\$400,000

#### \*CONFIDENTIAL\*

This worksheet is utilized to input the total Sources & Uses for the project from acquisitioin to construction completion. In addition, the maximum amount of MCRP Incentive the project is eligible for is calculated.

YES 🔻

Land			\$400,000	9.65%				
Building(s)				0.00%				
Demolition				0.00%				
Other:		_		0.00%				
	Subtotal	Acquisiton	\$400,000	9.65%				
					Ineligible			
Construction Costs Site Work		-	\$1,158,828	27.96%	Amt. \$0	Eligible Basis \$1,158,828		
Environmental N	Aitigation	- i - i	\$1,130,020	0.00%	\$0	\$1,130,020 \$0		
Earth Work/Den			\$332,310	8.02%	\$0 \$0	\$332,310		
Roads/Walks	lontion		\$417,294	10.02%	\$0 \$0	\$417,294		
Site Utilities			\$417,294 \$341,663	8.24%	\$0 \$0	\$417,294 \$341,663		
			\$541,005					
Site Improvemen	115		667.564	0.00%	\$0	\$0 ¢c7.5c1		
Landscaping			\$67,561	1.63%	\$0 ¢0	\$67,561 \$0		
Irrigation		_		0.00%	\$0 \$0	\$0 \$0		
Other:		- I - I	61 04C CE2		1.1			
Structures Building Concret	- /4 4	- T - 1	\$1,846,653 <i>\$546,471</i>	44.55% 13.18%	\$0 \$0	\$1,846,653		
	e/Masonry		\$546,471 \$83,950	2.03%	\$0 \$0	\$546,471 \$83,950		
Carpentry	idia - Annalatia - Annalaina			12.58%		\$83,950 \$521,432		
	iding/Insulation/Caulking		\$521,432	0.31%	\$0 \$0	\$521,432 \$12,750		
Doors/Windows,			\$12,750					
Drywall/Acoustic	Lui		494 750	0.00%	\$0	\$0		
Flooring			\$24,750	0.60%	\$0	\$24,750		
	ertops/Applicances		624 500	0.00%	\$0	\$0		
Painting/Decora			\$34,500	0.83%	\$0	\$34,500		
	ical/Fire Protection		\$433,000	10.45%	\$0 \$0	\$433,000	1	
HVAC	as/Caraas		\$88,000	2.12%	\$0 \$0	\$88,000	1	
Accessory Buildin			622.000	0.00%	\$0 \$0	\$0	1	
Elevators/Specia			\$33,800	0.82%		\$33,800	1	
Tenant Upgrade.			620.000	0.00%	\$0 \$0	\$0 \$20,000	1	
	y Control	_	\$20,000	0.48%	\$0 60	\$20,000	1	
	Entrances/Storefront	-	\$48,000	1.16%	\$0	\$48,000	1	
General Requirem			\$120,000	2.90%	\$0	\$120,000	1	
Builder's Overhead	a			0.00%	\$0	\$0		
Builder's Profit				0.00%	\$0	\$0		
Site Security			450.000	0.00%	\$0	\$0		
	Bond/Cost Certification		\$50,000	1.21%	\$0	\$50,000		
Construction Cont			\$118,868	2.87%	\$0	\$118,868		
Other: New E	quipment		\$50,000	1.21%	\$0	\$50,000		
	Subtotal Construe	ction costs	\$3,344,349	80.68%				
Professional Fees								
Architectural & En			\$70,000	1.69%	\$0	\$70,000		
	igineering			0.36%				
Survey			\$15,000		\$0	\$15,000		
Legal/Accounting				0.00%	\$0	\$0		
	idies/Soiling Testing			0.00%	\$0	\$0		
Market Study				0.00%	\$0	\$0		
Appraisal				0.00%	\$0	\$0	Total Eligible	
Cost Certification	antala Cal Fara		¢6 500	0.00%	\$0	\$0	Basis	Investment
Other: Gas/El	ectric Co. Fees Subtotal Profess	tional Food	\$6,500 <b>\$91,500</b>	0.16%	\$0	\$6,500	\$3,435,849	\$858,962
	Subtotal Profess		<i>\$51,500</i>	2.2270				
Interim Construction C	Costs							TOTAL DEVELOPM
Construction Loan				0.00%	Override			Senior Debt
Construction Inter		mos.	\$0	0.00%	overnae			Mortgage
Construction Taxe				0.00%				XXX
Construction Insur				0.00%				XXX
Title Work	ance			0.00%				CRP Conventi
Other:				0.00%				Subordinate Debt
Juier.	Subtotal Interim Constru	ction Coste	\$0	0.00%				CRP Subordin
	Subtotal Internit Construc	0313	ψŪ	0.00%				Other:
Permanent Financing	Costs							Other:
Permanent Loan F				0.00%				Other:
CRP Fees				0.00%				Deferred Fees/Ca
Title Work				0.00%				Deferred Dev
Other:				0.00%				Other Deferre
other.	Subtotal Permanent Finar	ncing Costs	\$0	0.00%				Deferred Con
	Subtotal i cinialiciti i ila	ieing costs	ç.	0.0070				Cash Equity C
Developer and Consult								Land/Building
Developer Fee	ting rees			0.00%				TIF Contribut
Project Managem	ent Fees			0.00%				Other:
Construction Man				0.00%				Other:
Constulting Fees	ugement rees			0.00%				TOTAL DEVEL
Other Related Par	ty Foor			0.00%				TOTAL DEVEL
Other: Broker			\$50,000	0.00%				<b>Construction Fina</b>
Other: Broker	Subtotal Developer and Cons	ulting For-	\$50,000	1.21%				Construction Loan
	Subtotal Developer and Cons	uiting rees	\$50,000	1.21%				
Reserves					Override			Interest Rate
Rent-Up Reserve		mos.	\$0	0.00%	e i sinde			Sources & Uses
Replacement Rese			ŲĻ	0.00%				Total Develop
Operating Reserve				0.00%				Total Develop
Other:				0.00%				Surplus/(Gap
Other:				0.00%				Sarpius/(dap
other.	C., LA	l Reserves	ćn	0.00%				Other Colculation
	Subtota	n reserves	\$0	0.00%				Other Calculation
Missellanes								Rental S.F.
Miscellaneous Other: Pre-de	velopment Feer		\$25,000	0.60%				Other S.F.
	velopment Fees		\$25,000					Total S.F.
	ering Review/Inspections		\$25,000	0.60%				
Other: OH&P			\$209,151	5.05%				6-1 F 1
	Subtotal Mis	cenaneous	\$259,151	6.25%				Cash Equity

\$209,151 \$259,151 \$4,145,000

Subtotal Miscellaneous

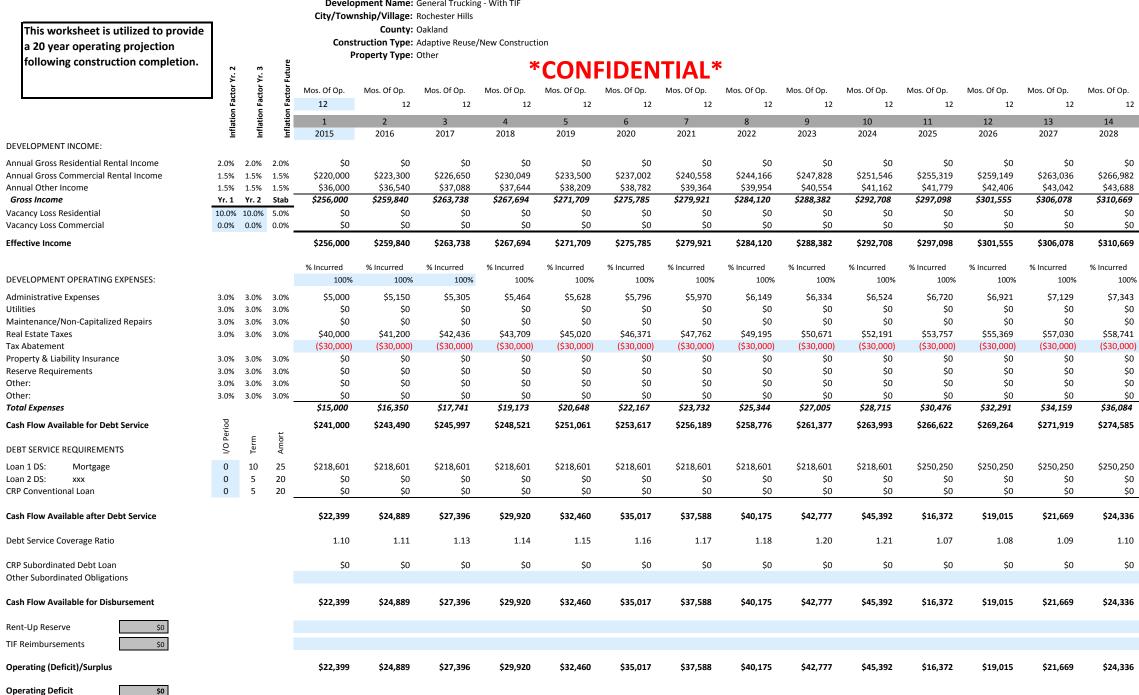
TOTAL DEVELOPMENT COSTS

5.05% 6.25%

100.00%

Senior Debt	Amount	% of TDC
Mortgage	\$3,415,000	82.39%
XXX	\$0	0.00%
XXX	\$0	0.00%
CRP Conventional Loan	\$0	0.00%
Subordinate Debt/Grants		
CRP Subordinate Loan/Grant		0.009
Other:		0.009
Other:		0.009
Other:		0.009
Deferred Fees/Cash Equity		
Deferred Developer Fees		0.009
Other Deferred Related Party Fees		0.009
Deferred Consulting Fees		0.00%
Cash Equity Owner	\$500,000	12.069
Land/Building Contribution Owner		0.009
TIF Contributions		0.009
Other:		0.009
Other:		0.009
TOTAL DEVELOPMENT SOURCES	\$3,915,000	94.45%
Interest Rate: 0.00%		
Sources & Uses	\$4 145 000	
Sources & Uses Total Development Costs	\$4,145,000	
Sources & Uses Total Development Costs Total Development Sources	\$3,915,000	
Sources & Uses Total Development Costs	1 7	_
Sources & Uses Total Development Costs Total Development Sources Surplus/(Gap) Other Calculations	\$3,915,000 (\$230,000)	
Sources & Uses Total Development Costs Total Development Sources Surplus/(Gap) Dther Calculations Rental S.F. 40,000	\$3,915,000 (\$230,000) Construct	Develop
Sources & Uses Total Development Costs Total Development Sources Surplus/(Gap) Dther Calculations Rental S.F. 40,000 Other S.F.	\$3,915,000 (\$230,000) Construct Cost /S.F	Cost/S.F.
Sources & Uses Total Development Costs Total Development Sources Surplus/(Gap) Dther Calculations Rental S.F. 40,000	\$3,915,000 (\$230,000) Construct	Cost/S.F.
Sources & Uses Total Development Costs Total Development Sources Surplus/(Gap) Dther Calculations Rental S.F. 40,000 Other S.F.	\$3,915,000 (\$230,000) Construct Cost /S.F	Cost/S.F.
Sources & Uses Total Development Costs Total Development Sources Surplus/(Gap) Dther Calculations Rental S.F. 40,000 Other S.F.	\$3,915,000 (\$230,000) Construct Cost /S.F	Cost/S.F. \$103.63 % TDC
Sources & Uses Total Development Costs Total Development Sources Surplus/(Gap) Dther Calculations Rental S.F. 40,000 Other S.F. 40,000	\$3,915,000 (\$230,000) Construct <u>Cost /S.F</u> \$83.61	Cost/S.F. \$103.63 <u>% TDC</u> 12.069
Sources & Uses Total Development Costs Total Development Sources Surplus/(Gap) Dther Calculations Rental S.F. 40,000 Other S.F. 40,000 Cother S.F. 40,000 Cash Equity	\$3,915,000 (\$230,000) Construct <u>Cost /S.F</u> \$83.61 \$500,000	Cost/S.F. \$103.63 <u>% TDC</u> 12.069 0.009
Sources & Uses Total Development Costs Total Development Sources Surplus/(Gap) Ther Calculations Rental S.F. 40,000 Other S.F. Total S.F. 40,000 Cash Equity Land/Building Contribution	\$3,915,000 (\$230,000) Construct Cost /S.F \$83.61 \$500,000 \$0	Cost/S.F. \$103.63 <u>% TDC</u> 12.069 0.009
Sources & Uses Total Development Costs Total Development Sources Surplus/(Gap) Ther Calculations Rental S.F. 40,000 Other S.F. Total S.F. 40,000 Cash Equity Land/Building Contribution	\$3,915,000 (\$230,000) Construct Cost /S.F \$83.61 \$500,000 \$0	Cost/S.F. \$103.63 <u>% TDC</u> 12.069 0.009
Sources & Uses Total Development Costs Total Development Sources Surplus/(Gap) Dther Calculations Rental S.F. 40,000 Other S.F. 40,000 Cther S.F. 40,000 Cash Equity Land/Building Contribution Owner Contribution	\$3,915,000 (\$230,000) Construct Cost /S.F \$83.61 \$500,000 \$500,000	Cost/S.F. \$103.63 <u>% TDC</u> 12.069 0.009
Sources & Uses Total Development Costs Total Development Sources Surplus/(Gap)  Total S.F. Total S.F. Calculations Cash Equity Land/Ruilding Contribution Owner Contribution Cash IRR	\$3,915,000 (\$230,000) Construct Cost /S.F \$83.61 \$500,000 \$0 \$500,000 2.1%	Cost/S.F. \$103.63

## **PROJECT CASH FLOW**



YES 🔻

Fill in all blue shaded inputs cells

Development Name: General Trucking - With TIF

4	CONF	-IDEN	<b>HAL</b> <sup>*</sup>	•	
Mos. Of Op.	Mos. Of Op.	Mos. Of Op.	Mos. Of Op.	Mos. Of Op.	Mos. Of Op.
12	12	12	12	12	12
15	16	17	18	19	20
2029	2030	2031	2032	2033	2034
\$0	\$0	\$0	\$0	\$0	\$0
\$270,986	\$275,051	\$279,177	\$283,364	\$287,615	\$291,929
\$44,343	\$45,008	\$45,683	\$46,369	\$47,064	\$47,770
\$315,329	\$320,059	\$324,860	\$329,733	\$334,679	\$339,699
\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0
\$315,329	\$320,059	\$324,860	\$329,733	\$334,679	\$339,699
% Incurred	% Incurred	% Incurred	% Incurred	% Incurred	% Incurred
100%	100%	100%	100%	100%	100%
\$7,563	\$7,790	\$8,024	\$8,264	\$8,512	\$8,768
\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0
\$60,504	\$62,319	\$64,188	\$66,114	\$68,097	\$70,140
(\$30,000)	(\$30,000)	(\$30,000)	(\$30,000)	(\$30,000)	(\$30,000)
\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0
\$38,067	\$40,109	\$42,212	\$44,378	\$46,609	\$48,908
\$277,263	\$279,951	\$282,649	\$285,355	\$288,070	\$290,792
\$250,250	\$250,250	\$250,250	\$250,250	\$250,250	\$250,250
\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0
\$27,013	\$29,701	\$32,399	\$35,105	\$37,820	\$40,542
1.11	1.12	1.13	1.14	1.15	1.16
\$0	\$0	\$0	\$0	\$0	\$0
\$27,013	\$29,701	\$32,399	\$35,105	\$37,820	\$40,542
\$27,013	\$29,701	\$32,399	\$35,105	\$37,820	\$40,542

# \*CONCIDENTIAL\*

Amortizati	on Sched	ules						[	Fill in all b	lue shaded in	outs cells													
City/Tov	wnship/Village: Roch County: Oakla		This worksheet is utilized as an amortization schedule for all senior debt and MCRP loan incentitives. In addition, other large principal paydowns can be					*				*				*			ітілі	*				
	Property Type: Othe		entered on this worksheet.						*CONFIDENTIAL*						*CONFIDENTIAL*									
			1 2015	2 2016	3 2017	4 2018	5 2019	6 2020	7 2021	8 2022	9 2023	10 2024	11 2025	12 2026	13 2027	14 2028	15 2029	16 2030	17 2031	18 2032	19 2033	20 2034		
	1																							
Loan 1: Mortgage Amount:	\$3,415,000	Principal Payment Interest Payment	\$82,001 \$136,600	\$85,281 \$133,320	\$88,692 \$129,909	\$92,240 \$126,361	\$95,929 \$122,671	\$99,767 \$118,834	\$103,757 \$114,844	\$107,908 \$110,693	\$112,224 \$106,377	\$116,713 \$101,888	\$104,421 \$145,829	\$110,686 \$139,564	\$117,327 \$132,923	\$124,367 \$125,883	\$131,829 \$118,421	\$139,738 \$110,512	\$148,123 \$102,127	\$157,010 \$93,240	\$166,430 \$83,819	\$176,416 \$73,834		
Interest Rate: Term:	4.00% 10	Total Payment	\$218,601	\$218,601	\$218,601	\$218,601	\$218,601	\$218,601	\$218,601	\$218,601	\$218,601	\$218,601	\$250,250	\$250,250	\$250,250	\$250,250	\$250,250	\$250,250	\$250,250	\$250,250	\$250,250	\$250,250		
I/O Period:	0	Other Principal Payments																						
Amortization:	25	Cumulative Principal Payments	\$82,001	\$167,282	\$255,974	\$348,214	\$444,143	\$543,910	\$647,667	\$755,574	\$867,798	\$984,511	\$1,088,932	\$1,199,617	\$1,316,944	\$1,441,311	\$1,573,139	\$1,712,877	\$1,861,000	\$2,018,010	\$2,184,440	\$2,360,857		
		Prinicipal Balance	\$3,332,999	\$3,247,718	\$3,159,026	\$3,066,786	\$2,970,857	\$2,871,090	\$2,767,333	\$2,659,426	\$2,547,202	\$2,430,489	\$2,326,068	\$2,215,383	\$2,098,056	\$1,973,689	\$1,841,861	\$1,702,123	\$1,554,000	\$1,396,990	\$1,230,560	\$1,054,143		
Loan 2: xxx		Principal Payment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
Amount: Interest Rate:	\$0 5.50%	Interest Payment Total Payment	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0		
Term:	5		7-	7-		7-	7-	7-			7-		7-		7-	7-	-	-	7-	7-	7-			
I/O Period: Amortization:	20	Other Principal Payments																						
		Cumulative Principal Payments	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
		Prinicipal Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
			40	<b>6</b> 0	60	40	60	60	40	40	40	40	ć.	40	40	40	60	40	40	40	40	40		
Loan CRP: CRP Conventio Amount:	onal Loan \$0	Principal Payment Interest Payment	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0 \$0		
Interest Rate: Term:	1.00%	Total Payment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
I/O Period:	0	Other Principal Payments																						
Amortization:	20	Cumulative Principal Payments	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
		Prinicipal Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
Loan CRP: CRP Subordina	ited Loan	Beg. Principal Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
Amount: Interest Rate	\$0	Interest Charge	\$0			\$0	\$0	\$0				\$0				\$0								
Term: First Payment:		Scheduled Payment Other Payments	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
Payment: % of Cash Flow	V	Loan Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
				γu		÷v		70	70	70	÷	ŶŬ		γu	֥	÷	70	70	γu	çu	γu	<del>70</del>		

## **DEVELOPER INVESTMENT RETURNS**

Development Name: General Trucking - With TIF City/Township/Village: Rochester Hills

County: Oakland

Construction Type: Adaptive Reuse/New Construction

Property Type: Other

# **\*CONFIDENTIAL\***

Property Sales Assumptions	
Capitalization Rate	9.00%
Year of Sale	25
Sale Expenses (% of sale price)	5.0%

This worksheet utilized to calculate a rough estimate of anticipated developer return. In additon, a proposed sales date and other owner cash investments in the project following construction completion can be entered on this worksheet.

Fill in all blue shaded input cells

YES

-

#### **Developer Return Analysis**

								Cash on	Return on
	Cash	Net Developer			Net Cash	Land/Building	Net Developer	Cash	Owner
Year	Investment	Fees Rec'd	Cash flow	Sale Proceeds	Investment	Investment	Investment	Return	Equity
0	\$500,000	\$0	\$0	\$0	(\$500,000)	\$0	(\$500,000)		
1		\$0	\$22,399	\$0	\$22,399	\$0	\$22,399	4.5%	4.5%
2		\$0	\$24,889	\$0	\$24,889	\$0	\$24,889	5.0%	5.0%
3		\$0	\$27,396	\$0	\$27,396	\$0	\$27,396	5.5%	5.5%
4		\$0	\$29,920	\$0	\$29,920	\$0	\$29,920	6.0%	6.0%
5		\$0	\$32,460	\$0	\$32,460	\$0	\$32,460	6.5%	6.5%
6		\$0	\$35,017	\$0	\$35,017	\$0	\$35,017	7.0%	7.0%
7		\$0	\$37,588	\$0	\$37,588	\$0	\$37,588	7.5%	7.5%
8		\$0	\$40,175	\$0	\$40,175	\$0	\$40,175	8.0%	8.0%
9		\$0	\$42,777	\$0	\$42,777	\$0	\$42,777	8.6%	8.6%
10		\$0	\$45,392	\$0	\$45,392	\$0	\$45,392	9.1%	9.1%
11		\$0	\$16,372	\$0	\$16,372	\$0	\$16,372	3.3%	3.3%
12		\$0	\$19,015	\$0	\$19,015	\$0	\$19,015	3.8%	3.8%
13		\$0	\$21,669	\$0	\$21,669	\$0	\$21,669	4.3%	4.3%
14		\$0	\$24,336	\$0	\$24,336	\$0	\$24,336	4.9%	4.9%
15		\$0	\$27,013	\$0	\$27,013	\$0	\$27,013	5.4%	5.4%
16		\$0	\$29,701	\$0	\$29,701	\$0	\$29,701	5.9%	5.9%
17		\$0	\$32,399	\$0	\$32,399	\$0	\$32,399	6.5%	6.5%
18		\$0	\$35,105	\$0	\$35,105	\$0	\$35,105	7.0%	7.0%
19		\$0	\$37,820	\$0	\$37,820	\$0	\$37,820	7.6%	7.6%
20		\$0	\$40,542	\$0	\$40,542	\$0	\$40,542	8.1%	8.1%
	\$500,000	\$0	\$621,985	\$0	\$621,985	\$0	\$621,985	4.98%	4.98%

IRR = 2.12% 2.12%

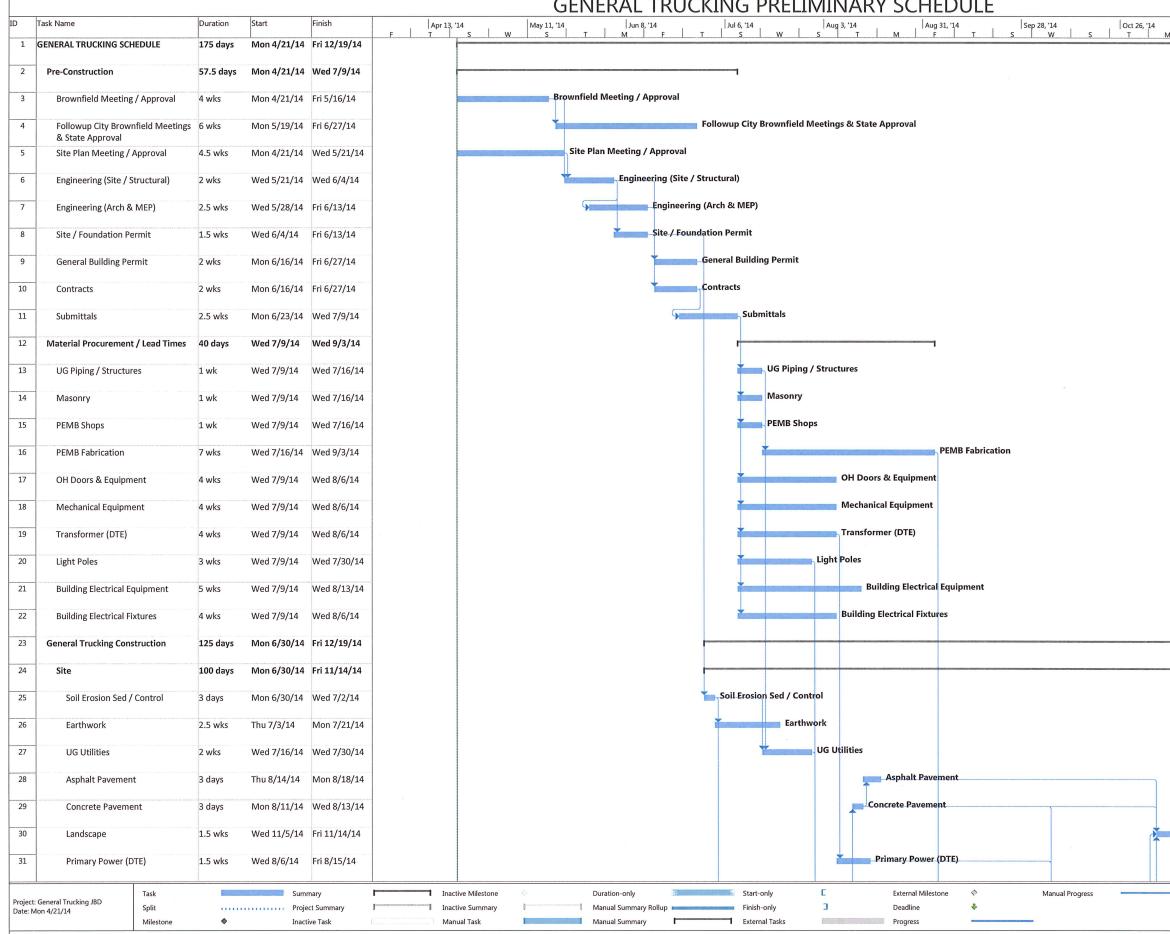
IRR =

Calculation of Sales Proceeds	
Net Operating Income (year before sale)	#REF!
Capitalization Rate	9.00%
Real Estate Value	#REF!
Less: Sale Expenses	#REF!
Net Sale Proceeds	#REF!
Less: Outstanding Debt	
Mortgage	#REF!
XXX	#REF!
XXX	#REF!
CRP Conventional Loan	#REF!
Other Debt Obligations	
Proceeds Available for Distributions	#REF!

# **Attachment F**

# **Preliminary Project Schedule**

## GENERAL TRUCKING PRELIMINARY SCHEDULE



		Nov	23, '14			5	Dec 2	21, '14			Jan 18, '15 - M F					Feb 15, T		
м	F		23, '14 T		S		Dec 2 W	1	S	1	Τ		м		:		T	
							×											
							, *											
1																		
L	and	scape	9															
		F`																
				1.01														

Date: Mo	on 4/21/14 Split	stone 🔶	Proj	ect Summary tive Task		active Summary anual Task	0	Manual Summary R Manual Summary	ollup	Finish-	-only al Tasks	3	Deac		÷				
Project: G	General Trucking JBD			nmary		active Milestone	\$ 1	Duration-only	Б.	Start-c		C D		nal Milestone	\$	М	anual Progress		
61	Punchlist & Turnover	1 wk	Mon 12/15/1	4 Fri 12/19/14															
60	Final Inspection	2 days		Fri 12/12/14															
59	General Trades (Doors, Equipment)			4 Mon 11/17/14															
58	Office Finishes	1.5 wks		Mon 11/3/14															Off
57	Paints & Coatings	1.5 wks		Wed 12/10/14															
56	MEP Finishes	2.5 wks		Mon 12/1/14															
55	Install Power & Wiring Receptacles	2 wks		Wed 11/12/14														*	
54	Office Buildout	2.5 wks	Mon 10/6/14	Wed 10/22/14													*	Office	Buildou
53	Lighting Systems	1.5 wks	Thu 10/30/14	Mon 11/10/14														*	
52	Electrical Distribution & Conduiting	Bus / 2.5 wks	Mon 10/13/14	4 Wed 10/29/14														E	Electric
51	Secondary Power	1 wk	Mon 10/6/14	Mon 10/13/14												,	Sec	ondary Pow	/er
50	Overhead Ductwork	1.5 wks	Mon 10/6/14	Wed 10/15/14													0	verhead Du	ctwork
49	Overhead Fire Protectio	n 1.5 wks	Mon 10/6/14	Wed 10/15/14													C	verhead Fir	e Prote
48	Building Slab	3 days	Wed 10/1/14	Mon 10/6/14												+	- Building S	ilab	
47	UG Plumbing Systems	3 days	Tue 7/29/14	Thu 7/31/14								🎽 UG Plun	nbing System						
46	Methane Venting Syster	n 1.wk	Tue 7/29/14	Mon 8/4/14								Metl	ane Venting	System					
45	Interiors	104 day	rs Tue 7/29/14	Fri 12/19/14								r							
44	Glazing Systems	1 wk	Mon 10/27/14	4 Fri 10/31/14														+	Glazin
43	Roof System	2.5 wks	Mon 10/27/14	4 Wed 11/12/14														Tanana	
42	Wall Panels	1.5 wks	Wed 10/15/14	4 Fri 10/24/14													l in	Wall	Panels
41	Masonry Systems	2 wks	Wed 10/1/14	Wed 10/15/14		-											M	asonry Syst	.ems
40	Misc Metal Erection / M	ezz 1 wk	Mon 10/6/14	Mon 10/13/14													Mis	c Metal Erec	ction / I
39	PEMB Erection	4 wks	Wed 9/3/14	Wed 10/1/14												PE	<b>MB Erectio</b> r	I	+
38	Steel & Enclosure	50 days	Wed 9/3/14	Wed 11/12/14										r					
37	Backfill & Bases	3 days	Tue 7/29/14	Thu 7/31/14		*****						🎽 Backfill	& Bases						
36	Footings & Gradebeams	1.5 wks	Thu 7/17/14	Mon 7/28/14							*	Footings &	Gradebeams						
35	Auger Piles Installation	1.5 wks	Tue 7/8/14	Thu 7/17/14							Auger Pi	iles Installati	on						
34	Excavation	3 days	Thu 7/3/14	Mon 7/7/14						Excava	ation								
33	Foundations & Auger Piles	21 days	Thu 7/3/14	Thu 7/31/14						r		1							
32	Site Lighting	1.5 wks	Wed 7/30/14	Fri 8/8/14					4 F T			S S	ite Lighting						
	ask Name	Duration	Start	Finish	Apr 13,	s w	May 11, '14 / S	т м	F T	Jul 6, '14 S	w	Aug 3, '14 S	т м	Aug 31, '14	т і	Sep 28, '	v s	I T	M

