PRELIMINARY SITE PLANS FOR LEGACY OF ROCHESTER HILLS PART OF THE WEST 1/2 OF THE NORTHWEST 1/4, SECTION 29 ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN

OWNER/APPLICANT/DEVELOPER:

GOLDBERG COMPANIES, INC. 25101 CHAGRIN BOULEVARD BEACHWOOD, OHIO 44122 CONTACT: STAN JAKSE PHONE: (216) 831–6100 EXT. 239 EMAIL: SJAKSE@GOLDBERGCOMPANIES.COM

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CIVIL ENGINEER:

PEA, INC. 2430 ROCHESTER CT, SUITE 100 TROY, MI 48083 CONTACT: RACHEL L. SMITH, PE, LEED AP, CFM PHONE: (248) 689–9090 EXT. 1165 FAX: (248) 689–1044 EMAIL: RACHEL.SMITH@PEAINC.COM

LANDSCAPE ARCHITECT:

PEA, INC. 7927 NEMCO WAY, SUITE 115 BRIGHTON, MI 48116 CONTACT: JEFF SMITH, R.L.A., LEED AP PHONE: (517) 546-8583 FAX: (517) 546-8973 EMAIL: JSMITH@PEAINC.COM

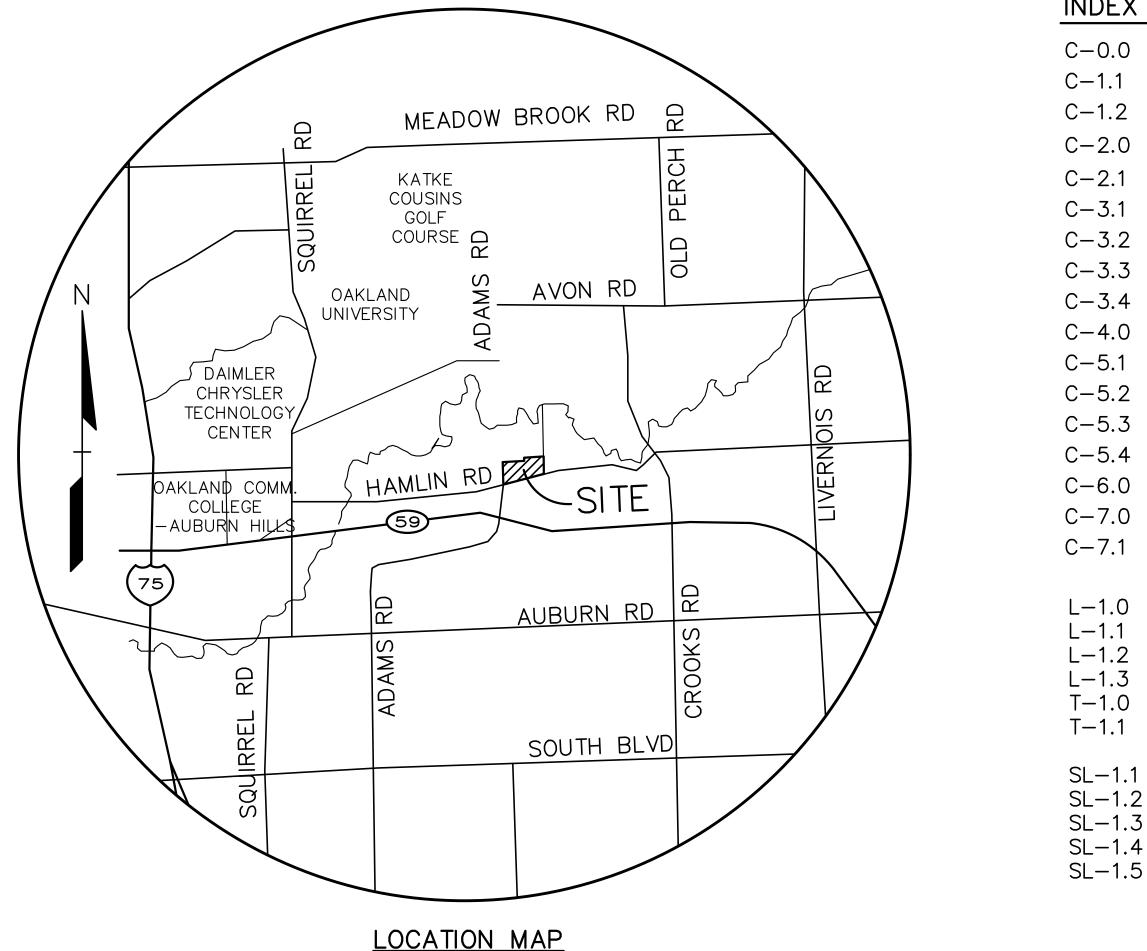
LEGAL DESCRIPTION:

(Per Vanguard Title Company, File No. VG204608, Effective May 4, 2018)

Land situated in the City of Rochester Hills, County of Oakland, State of Michigan, more particularly described as:

PARCEL A: Part of the Northwest 1/4 of Section 29, Town 3 North, Range 11 East, City of Rochester Hills. Oakland County, Michigan, and also more particularly described as: Commencing at the Northwest corner of said Section 29; thence along the north line of said Section 29, as monumented, N88°07'26"E, 841.63 feet to the Point of Beginning, said point being on the Easterly line of "Clinton River Valley No. 1", as recorded in Liber 180 of plats, Page 30, Oakland County Records; thence continuing along said North line, N88°07'26"E, 759.55 feet, said line also being the Southerly line and Easterly extension thereof of said "Clinton River Valley No. 1 "; thence S00°58'53"W, 553.09 feet to the North line of Hamlin Road (variable width), as recorded in Liber 15473, Page 434 (on page 436), Oakland County Records; thence along said North line the following two (2) courses: 1) 96.30 feet along an arc of a curve to the left, having a radius of 6452.00 feet and a chord bearing S76°36'57"W, 96.29 feet AND 2) S76°11'18"W, 41.39 feet; thence N13°48'42"W, 132.98 feet; thence N37°22'04"W, 132.46 feet; thence S76°11'18"W, 100.76 feet; thence N13°48'42"W, 268.87 feet; thence S88°07'26"W. 345.01 feet to the aforementioned easterly line of "Clinton River Valley No. 1 "; thence along said Easterly line, N01°49'58"E, 100.21 feet to the aforementioned north line of said Section 29 and the Point of Beainning.

PARCEL B: Part of the Northwest 1/4 of Section 29, Town 3 North, Range 11 East, City of Rochester Hills, Oakland County, Michigan, and also more particularly described as: Commencing at the Northwest corner of said Section 29; thence along the North line of said Section 29, as monumented, N88°07'26"E, 841.63 feet to a point on the Easterly line of "Clinton River Valley No. 1 ", as recorded in Liber 180 of plats, Page 30, Oakland County Records; thence along said Easterly line, S01°49'58"W, 100.21 feet to the Point of Beginning; thence N88°07'26"E, 345.01 feet; thence S13°48'42"E, 268.87 feet; thence N76°11'18"E, 100.76 feet; thence S37°22'04"E, 132.46 feet; thence S13°48'42"E, 132.98 feet to the North line of Hamlin Road (variable width), as recorded in Liber 15473, Page 434 (on page 436), Oakland County Records; thence along said North line the following four (4) courses: 1) S76°11'18"W, 1,002.92 feet; 2) S82°16'37"W, 75.43 feet; 3) S76°11'18"W, 300.00 feet AND 4) N47°24'39"W, 47.53 feet to the east line of Adams Road (variable width), as recorded in Liber 15473, Page 434 (on page 436), Oakland County Records; thence along said East line the following (4) courses: 1) 313.82 feet along an arc of a curve to the left, having a radius of 3909.72 feet and a chord bearing N01°58'51"E, 313.74 feet; 2) N00°19'07"W, 85.35 feet; 3) N09°45'18"W, 133.16 feet AND 4) N02°09'47"W, 172.54 feet to the South line of the aforementioned "Clinton River Valley No. 1"; thence along said South line, N88°30'52"E, 774.10 feet to the Southeasterly corner of said "Clinton River Valley No. 1 ": thence along the aforementioned Easterly line of said "Clinton River Valley No. 1". N01°49'58"E, 26.57 feet to the Point of Beginning.



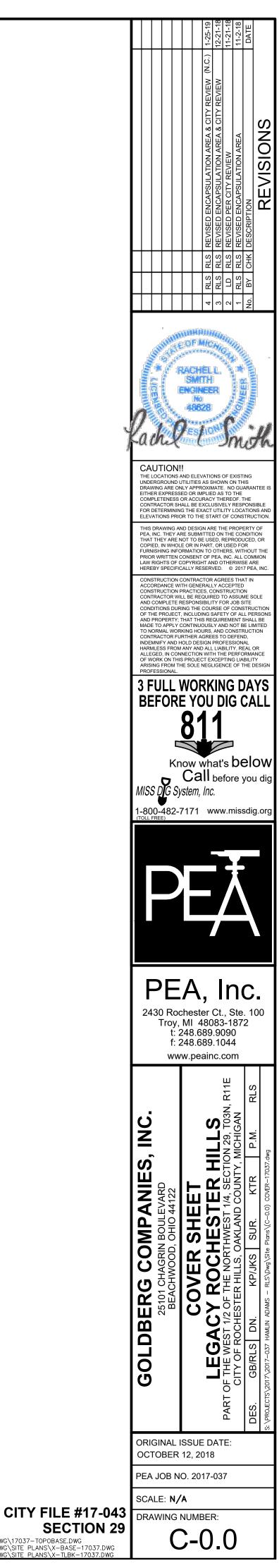
NO SCALE

INDEX OF DRAWINGS:

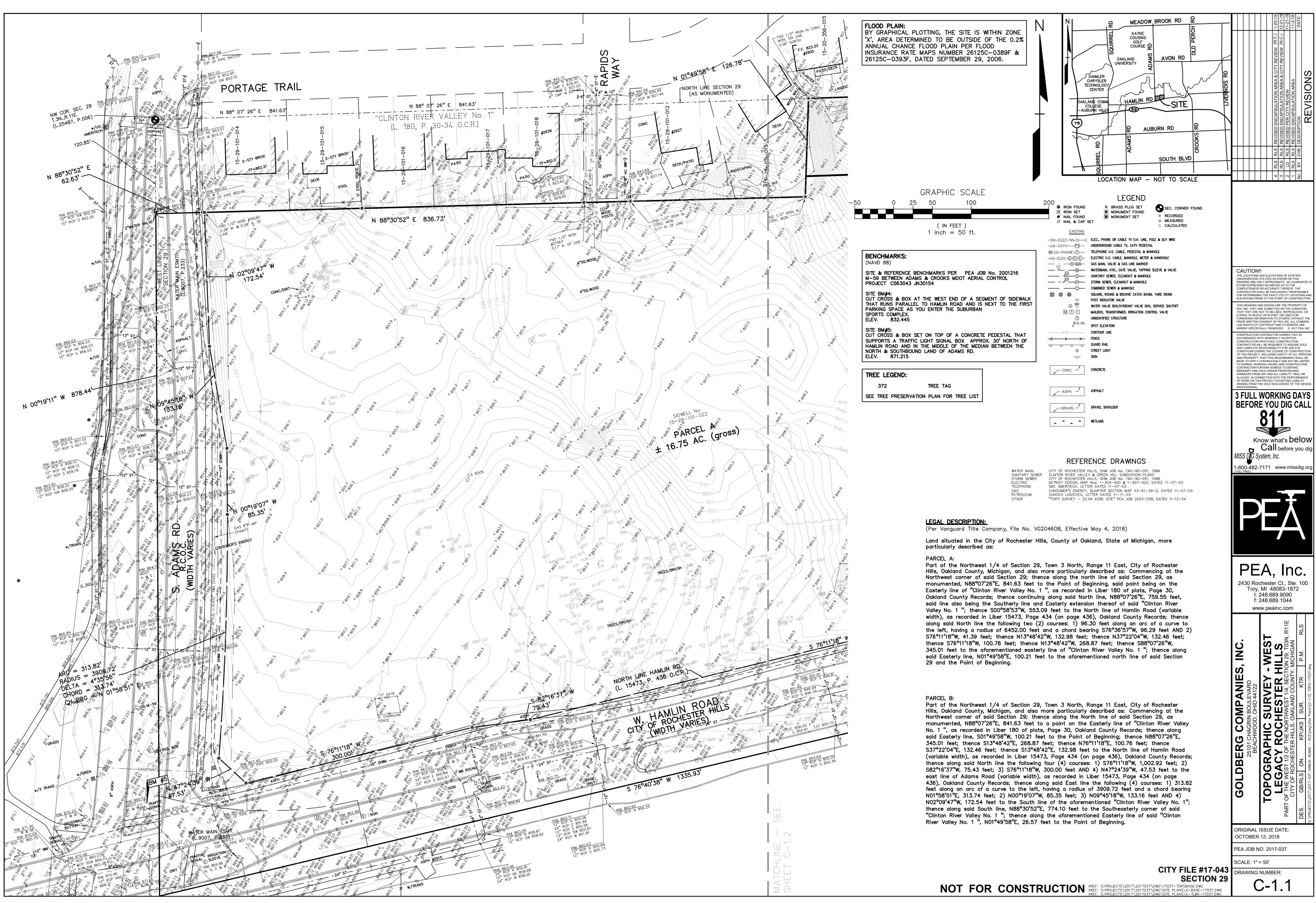
COVER SHEET TOPOGRAPHIC SURVEY - WEST TOPOGRAPHIC SURVEY - EAST OVERALL PRELIMINARY SITE PLAN BROWNFIELD DETAILS PRELIMINARY SITE PLAN - NW PRELIMINARY SITE PLAN - SW PRELIMINARY SITE PLAN - SE PRELIMINARY SITE PLAN - NE FIRE PROTECTION PLAN PRELIMINARY GRADING PLAN - NW PRELIMINARY GRADING PLAN - SW PRELIMINARY GRADING PLAN - SE PRELIMINARY GRADING PLAN - NE OVERALL PRELIMINARY UTILITY PLAN NOTES AND DETAIL SHEET MDOT RAMP DETAILS

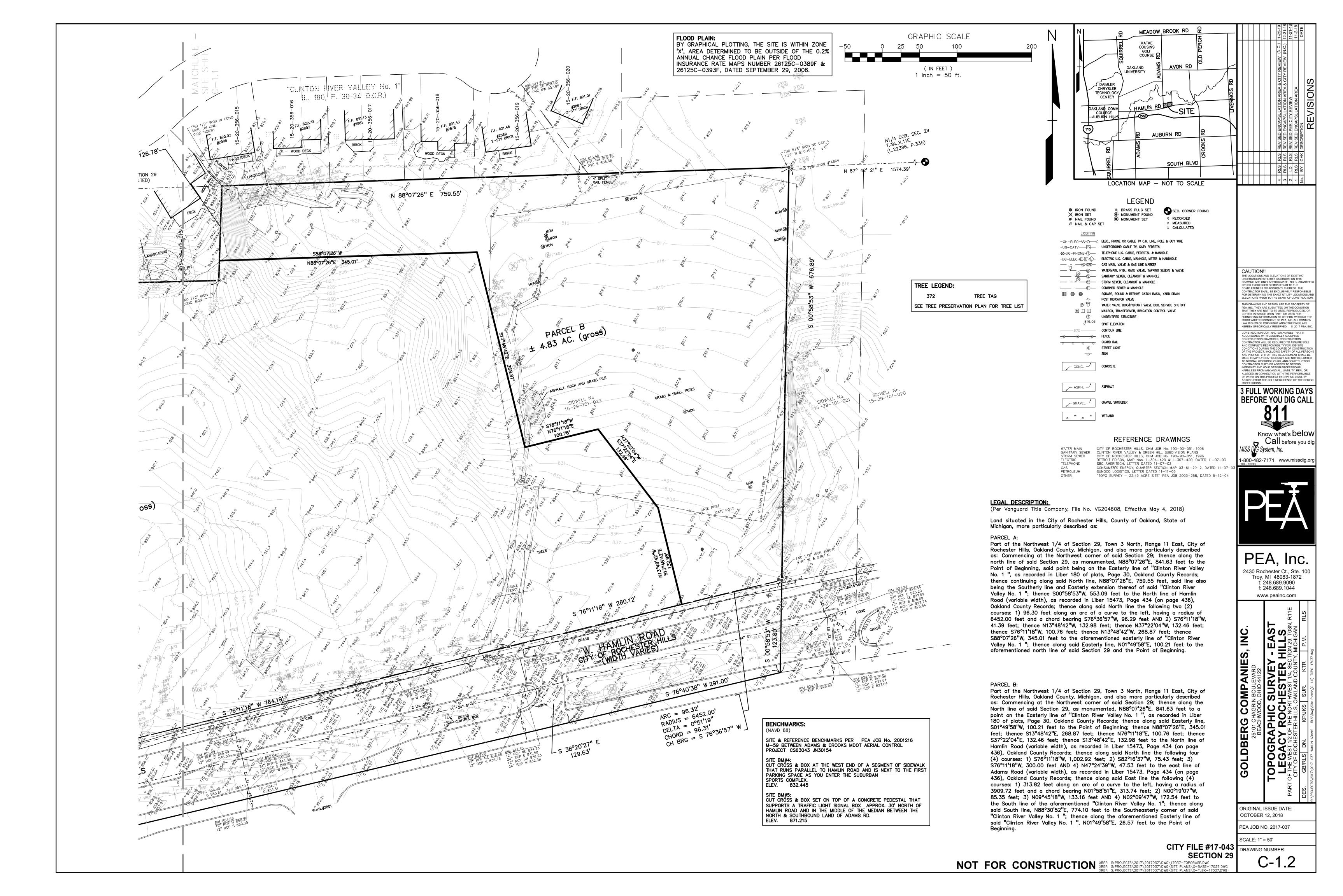
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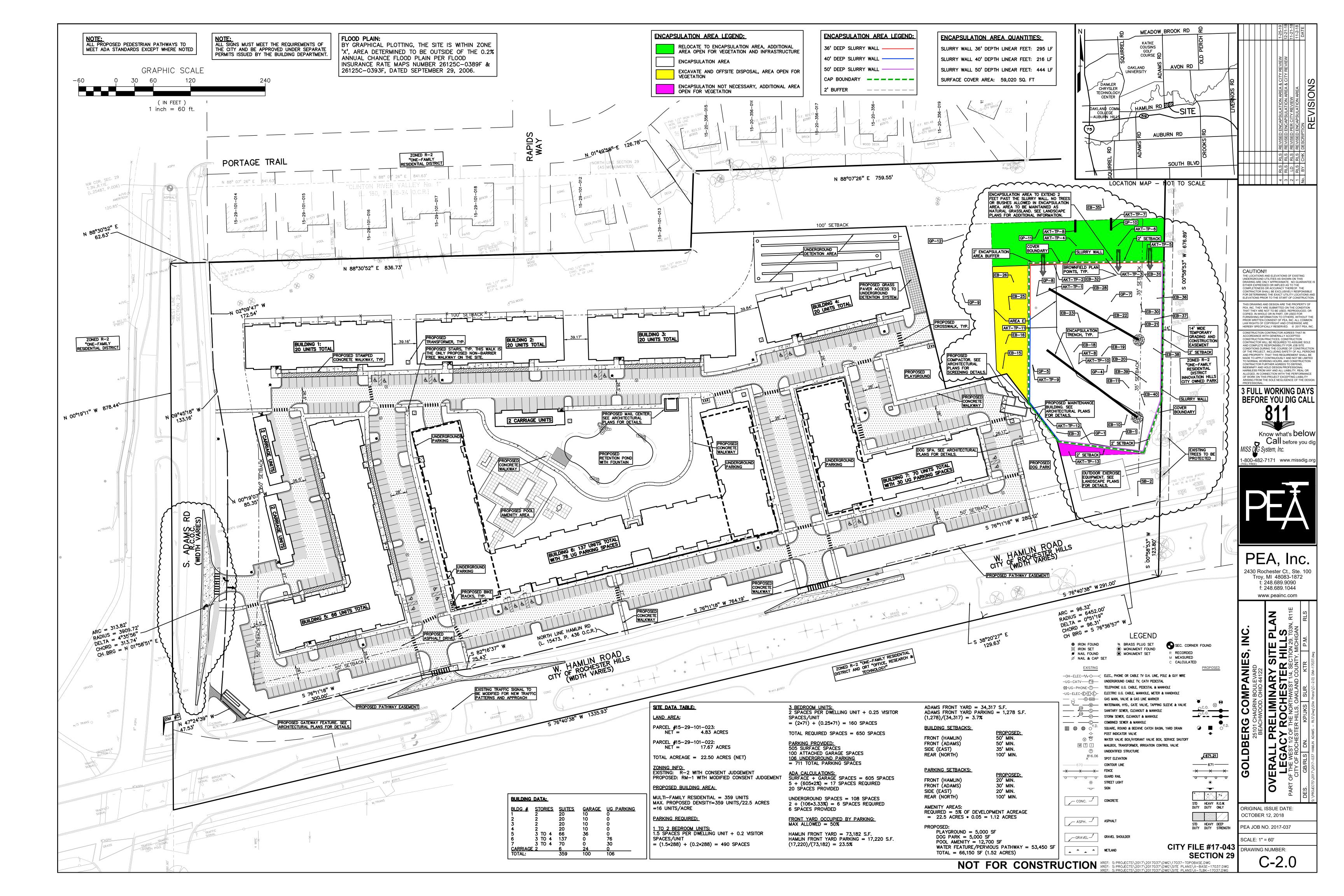
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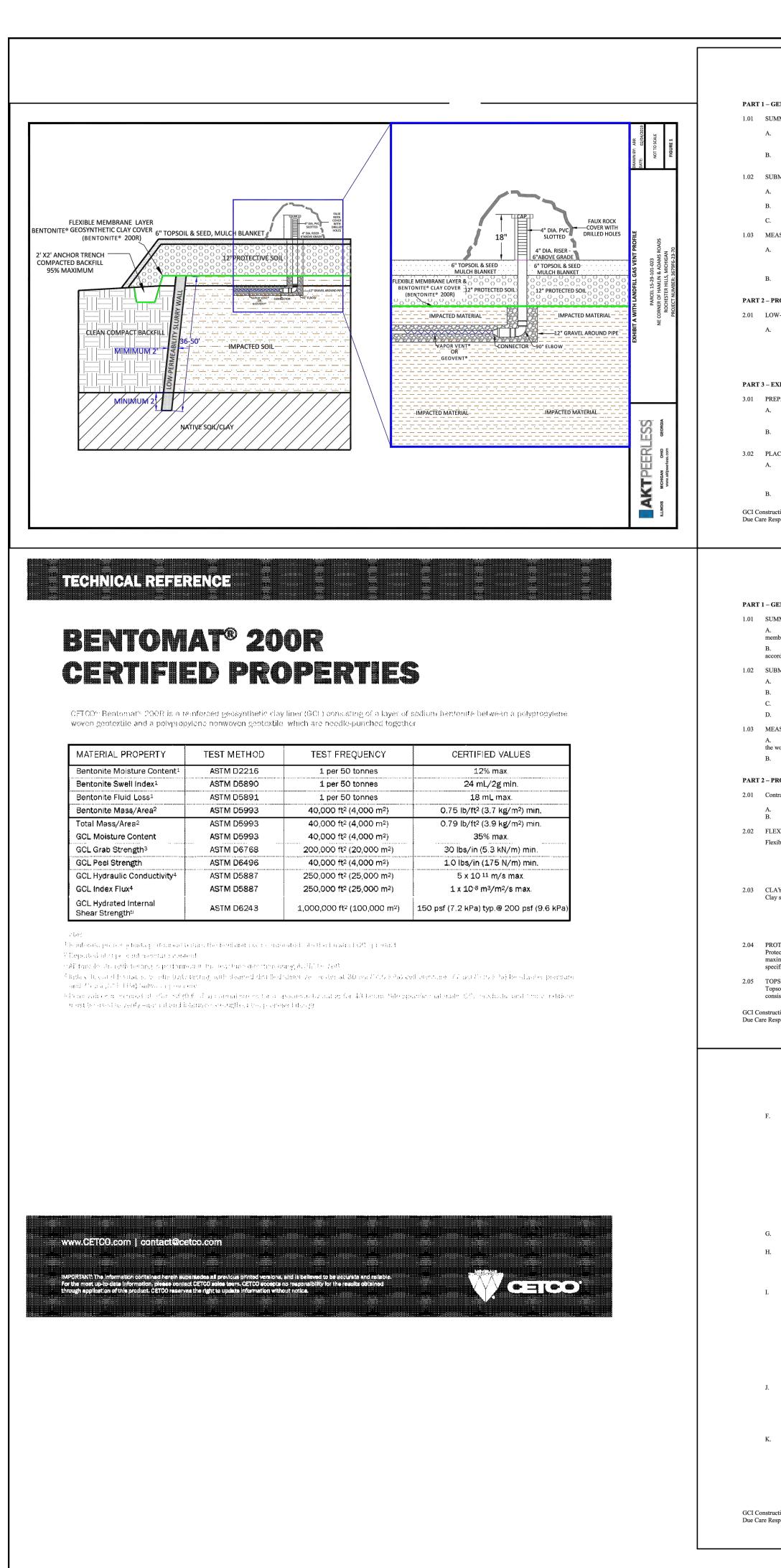


SECTION 29 NOT FOR CONSTRUCTION XREF: S: PROJECTS\2017\2017037\DWG\17037-TOPOBASE.DWG XREF: S: PROJECTS\2017\2017037\DWG\SITE PLANS\X-BASE-17037.DWG XREF: S: PROJECTS\2017\2017037\DWG\SITE PLANS\X-TLBK-17037.DWG XREF: S: PROJECTS\2017\2017037\DWG\SITE PLANS\X-TLBK-17037.DWG









	1			С.118 11-18 ЛТЕ
SECTION 02500	SECTION 02500			C.) 1-25 11-2-2 DA'
LOW-PERMEABILITY BARRIER WALL	LOW-PERMEABILITY BARRIER WALL C. Contractor shall provide suitable equipment:	AKTPEERLESS		
SUMMARY	 to achieve necessary compaction for Compacted Clay Barrier Wall. to trench, mix, and place bentonite slurry for Slurry Clay Barrier Wall. 	Venting System Specifications Part 1 – General	OAKLAND UNIVERSITY	
 A. Section includes placement of Low-Permeability Barrier Wall materials to encapsulate known PCB-contaminated soil. B. Contractor will provide all equipment, labor, materials, and supplies required to perform the work in 	3. to provide dewatering as necessary for the selected construction method.D. Contractor shall relocate soil excavated for construction of Low-Permeability Barrier Wall within the	1.01 Summary		
 Contractor will provide all equipment, labor, materials, and supplies required to perform the work in accordance with the Contract and Drawings. SUBMITTALS 	encapsulation area. Relocated soil shall be compacted and graded as part of the PCB-contaminated soil unit.	A. Contractor shall install a venting consisting of a low profile vapor collection system and associated vents.	CHRYSLER TECHNOLOGY CENTER	
A. Submit detailed written work plans describing methodologies for performing all work-related items.	 Equipment shall be decontaminated to prevent cross-contamination or exacerbation. Contractor shall employ Health and Safety measures to protect workers and prevent contact 	 B. Contractor will provide all equipment, labor, materials and supplies required to perform the work in accordance with the Contract and Drawings. <u>1.02 Submittals</u> 	OAKLAND COMM. HAMLIN RD SITE	
B. Submit samples for laboratory testing.C. All materials shall meet the requirements set forth in these specifications.	with contaminated soils. E. For Compacted Clay Barrier Wall:	Submit product data for the venting system specified, including manufacturer's specifications.	-AUBURN HILLS (59	
MEASUREMENT AND PAYMENT	1. Material excavated for construction of Clay Barrier Wall shall be relocated within the encapsulation area.	Submit samples of the following for approval, if proposing material different from specifications: Venting pipe 		
A. The work of this section will be paid by the linear foot of constructed low-permeability barrier wall, as determined by field measurement upon completion. (Estimated quantity is based on an average wall depth of 18-feet below existing surface grade.)	 Contractor shall place clay material in lifts not exceeding 9-inches in loose thickness. Contractor shall apply compaction using suitable equipment (i.e. sheepsfoot roller) to achieve a homogenous unit, minimizing air voids. 	2. Venting accessories <u>1.03 Measurement and Payment</u>	V SWN SOOKS	REVISE
B. Refer to Section 01025 – Measurement and Payment	 Contractor shall provide compaction testing on each lift of the barrier wall. Contractor shall remove large stones or clods of soil which would negatively impact the 	The work of this section will be paid by as a lump sum item, based on completion and acceptance of the work by the Engineer and Owner.		RLS RLS CHK
T 2 – PRODUCTS LOW-PERMEABILITY BARRIER WALL	 uniform quality of the barrier wall. Clay barrier wall shall be constructed a minimum of 2-feet thick and shall extend 2-feet into native soil below the PCB-contaminated fill. 	Refer to Section 01025 – Measurement and Payment <u>1.04 Quality Assurance</u>		RLS RLS BY BY
A. Barrier Wall material shall consist of one of the following materials:	 a. Contractor shall provide dewatering to facilitate construction as needed. 7. Contractor shall employ precautions to (1) prevent worker contact with contaminated soil 	A pre-installation conference shall be held with the Contractor, Installer, and Engineer prior to	LOCATION MAP - NOT TO SCALE	No 20 3 4 No 20 10 No 20 No
 Compacted Clay Barrier Wall: Clay soil with >50% P200 and maximum permeability of 1x10⁻⁷ cm/sec. Slurry Clay Barrier Wall: Bentonite slurry with maximum permeability of 1x10⁻⁷ cm/sec. 	and (2) prevent exacerbation of contamination E. For Slurry Clay Barrier Wall:	installation of the venting system to assure proper site and installation conditions. <u>1.05 Delivery, Storage, and Handling</u>		
 Approved alternate. T 3 – EXECUTION 	1. Material excavated for construction of Clay Barrier Wall shall be relocated within the encapsulation area.	Deliver materials to project site as specified by manufacturer labeled with manufacturer's name, product brand name and type, date of manufacture, and directions for handling.		
PREPARATION	 Contractor shall place slurry material in a manner to provide a homogenous, continuous barrier surrounding the PCB-contamination area. Contractor shall periodically sample the slurry wall mixture to verify that the required 	Store materials as specified by the manufacturer in a clean, dry, protected location. Protect stored materials from direct sunlight.		
A. Contractor shall submit his work plan for installation of the Low-Permeability Barrier Wall, including selection of compacted clay or slurry wall construction, or a combination thereof.	permeability is achieved. 3. Slurry wall shall be constructed a minimum of 2-feet thick and shall extend 2-feet into	Remove and replace damaged materials. Part 2 – Products		
 B. Contractor shall submit laboratory testing to verify that the selected material meets the requirements listed in these Specifications. 	 native soil below the PCB-contaminated fill. Contractor shall employ precautions to (1) prevent worker contact with contaminated soil and (2) prevent exacerbation of contamination 	2.01 Venting System Materials		
PLACEMENT A. Contractor is responsible for coordinating the installation of the Barrier Wall with other work items. Contractor should minimize soil handling and arrange installation to take advantage of open	 3.03 VERIFICATION Contractor shall provide copies of all verification testing to the Engineer for review. 	Collection system shall be a low profile vapor collection system used in lieu of or in conjunction with perforated piping, as described below.		
B. Contractor shall describe installation methods in his work plan for installation of the Barrier Wall.	END OF SECTION	Geovent [™] consists of a three dimensional vent core wrapped in a non-woven, needle punched filter fabric. Geovent [™] is manufactured by CETCO, (847) 851-1800, <u>www.CETCO.com</u> .		CAUTION!!
Construction, LLC AKT Peerless Project #3679F6 Care Response Activity May 9, 2018	GCI Construction, LLC AKT Peerless Project #3679F6 Due Care Response Activity May 9, 2018			THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS
02500 - 1	Due Care Response Activity May 9, 2018 02500 - 2			EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVITIONS POID THE STACT OF CONSTITUTION
				ELEVATIONS PRIOR TO THE START OF CONSTRUCTION. THIS DRAWING AND DESIGN ARE THE PROPERTY OF PEA, INC. THEY ARE SUBMITTED ON THE CONDITION
SECTION 02510	SECTION 02510			THAT THEY ARE NOT TO BE USED, REPRODUCED, OR COPIED, IN WHOLE OR IN PART, OR USED FOR FURNISHING INFORMATION TO OTHERS, WITHOUT THE PRIOR WRITTEN CONSENT OF PEA, INC. ALL COMMON
COVER SYSTEM T 1 – GENERAL	COVER SYSTEM 2.06 ALTERNATE: GEOSYNTHETIC CLAY LINER (GCL)	AKTPEERLESS		LAW RIGHTS OF COPYRIGHT AND OTHERWISE ARE HEREBY SPECIFICALLY RESERVED. © 2017 PEA, INC. CONSTRUCTION CONTRACTOR AGREES THAT IN
SUMMARY A. Contractor shall install a Cover System consisting of 2-feet of compacted clay with a flexible	Geosynthetic Clay Liner material shall provide maximum permeability of 1x10 ⁻⁷ cm/sec GCL cover soil shall consist of granular backfill (such as MDOT 2NS sand or Class II sand) with maximum particle size of 1 inch	Geovent [™] Physical Properties		CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE
 A. Contractor shart instant a Cover System consisting of 2-feet of compacted citary with a nextber membrane liner (FML). Also includes 12-inches of protective cover soil and 2+-inches of topsoil above FML B. Contractor will provide all equipment, labor, materials and supplies required to perform the work in accordance with the Contract and Drawings. 	PART 3 – EXECUTION	PHYSICAL PROPERTIES CORE PROPERTY TEST METHOD RESULT CompressiveStrength ASTM D 1621 8,500 + 11,000 pst (407 - 527 kN/m²)		AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY: THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED
SUBMITTALS	 3.01 PREPARATION A. Contractor shall submit his work plan for installation of the Cover System, including selection of FML and GCL products and cover soils. 	Thickness ASTM D 1777 1.0 in. (2.54 cm) Flow Rate (Hydraulic gradient = .1) ASTM D 4716 30gpm//t width (3721pm/m)		TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL
A. Submit detailed written work plans describing methodologies for performing all work-related items.B. Submit samples for laboratory testing.	 B. Contractor shall submit laboratory testing to verify that the selected material meets the requirements listed in these Specifications. 	FABRIC PROPERTY TEST METHOD RESULT A.O.S. ASTM D 4751 70 US Sieve (0.212 mm) Grab Tensile Strength ASTM D 4632 100 lbs. (0.45 kN)		HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN
C. Submit manufacturer certification and material testing information for all products.D. All materials shall meet the requirements set forth in these specifications.	C. Contractor shall prepare the work area (including anchor trenches) by removing topsoil, vegetation, and excavate to design grade.	CBR Puncture Strength ASTM D 6241 250 lbs. (1.11 kN) Flow Rate ASTM D 4491 140 gpm/ft ¹ (5.704 lpm/m ³)		3 FULL WORKING DAYS
MEASUREMENT AND PAYMENT A. The work of this section will be paid by as a lump sum item, based on completion and acceptance of	 a. Work surface shall be graded smooth and sloped to drain. b. Protrusions, debris, and large particles shall be removed. Voids caused by excavation operation or by removal of large items shall be filled with clean backfill material. 	Alternatively, Vapor-Vent [™] consists of a three dimensional vent core wrapped in a filter fabric. Vapor-		BEFORE YOU DIG CALL
the work by the Engineer and Owner. B. Refer to Section 01025 – Measurement and Payment	 Excavated material from low-permeability barrier wall shall be placed above existing materials after the area is cleared, and compacted and graded smooth. 	Vent [™] is manufactured by Land Science, (949) 481-8118, <u>landsciencetech.com</u> . Auxiliary materials such as Geovent [™] End Outlets or Vapor-Vent [™] Pipe Reducer shall be used in		811
T 2 – PRODUCTS	E. Cover System area shall be proof-rolled and compacted prior to placement of liners and cover soil to minimize future settlement and provide a smooth grade for liner placement.	accordance with manufacturer recommendations. Four-inch diameter, Schedule 40 PVC piping shall be used to connect Geovent [™] or Vapor-Vent [™] as		
Contractor shall provide necessary laboratory and field testing to verify material suitability, such as:A. Laboratory testing: gradation, permeability, modified Proctor, moisture content, etc.	3.02 PLACEMENT	identified on project drawings. Gravel shall be placed around the Schedule 40 PVC, connections, and Geovent [™] or Vapor-Vent [™]		Know what's below Call before you dig
 B. Field testing: gradation, confirmation sampling, seam testing, etc. FLEXIBLE MEMBRANE LINER (FML) 	 A. Contractor is responsible for coordinating the installation of the Cover System with other work items. B. Contractor should minimize soil handling and arrange installation to take advantage of other operations for scheduling. 	materials during installation. 2.02 Vent Risers		MISS DIG System, Inc.
Flexible Membrane Liner shall consist of one of the following: 1. PVC Liner	C. Contractor shall describe installation methods in his work plan for installation of the Cover System.D. Contractor shall provide suitable equipment:	Vent risers shall be constructed with four-inch, Schedule 40 PVC piping to 6-inches above grade, followed by 12-inches of slotted Schedule 40 PVC and a 4-inch PVC cap.		1-800-482-7171 www.missdig.or
 30-mil LLDPE or HDPE liner Approved alternate 	 to achieve necessary compaction for Cover System soils. to protect liner and prevent damage to cover system during construction (e.g. rubber-tired 	Vent risers shall be placed in a trench surround by 12-inches of gravel for support.		
CLAY Clay soil shall meet the following requirements:	equipment for traversing above liner). E. Compacted Clay	Vent risers shall be covered with an appropriately sized faux stone above final cover grade. Part 3 – Execution		
 Maximum particle size 3 inches Maximum permeability of 1x10-7 cm/sec. 	 Clay shall be placed in lifts not exceeding 9 inches loose thickness. Contractor shall provide suitable equipment to compact clay soil (i.e. sheepsfoot roller). 	3.01 Examination Examine substrates, areas, and conditions under which venting system will be installed, with installer		
3. Moisture content \pm 5% of optimum as determined by modified Proctor test. PROTECTIVE COVER SOIL	 Contractor shall remove oversize particles during placement. Clay shall be handled and placed in a manner to achieve optimum moisture (±5%) and density (95% or greater). 	present, for compliance with requirements. Do not proceed with installation until unsatisfactory conditions have been corrected.		
Protective cover soil shall consist of granular backfill (such as MDOT 2NS sand or Class II sand) with maximum particle size of 1 inch. May also consist of on-site cut materials which meet the requirements of this specification, and can be spread without excessive handling.	a. Contractor shall provide density testing during placement.5. Clay shall be placed to provide a minimum 2-foot thick cover over the entire area, extending	3.02 <u>Venting System Installation</u>		
TOPSOIL Topsoil shall consist of stripped material from site clearing operations or imported topsoil material. Shall	to the outer limit of the low-permeability barrier wall.6. Surface shall be graded smooth to provide a base for FML installation.	General Contractor shall be responsible for excavating the trenches and placement of gravel base. A minimum or 2-inches of gravel base should be placed beneath the vent material.		
consist of organic material suitable for vegetative growth, free of clods and clumps and large rocks. Construction, LLC AKT Peerless Project #3679F6	GCI Construction, LLC AKT Peerless Project #3679F6	Install over substrate material where designated on drawings in accordance with manufacturer's recommendations.		
Care Response Activity May 9, 2018 02510 - 1	Due Care Response Activity May 9, 2018 02510 - 2			PEA, Inc.
				2430 Rochester Ct., Ste. 100 Troy, MI 48083-1872
SECTION 02510	SECTION 02510			t: 248.689.9090 f: 248.689.1044
COVER SYSTEM 7. Contractor shall employ precautions to (1) prevent worker contact with contaminated soil and (2) prevent exacerbation of contamination	COVER SYSTEM 5. Contractor shall prevent equipment and vehicle traffic from contact with the liner.	AKTPEERLESS		www.peainc.com
 F. Flexible Membrane Liner (FML): 1. Contractor shall place liner on prepared surface. 	a. A minimum of 12-inches of cover soil shall be installed between liner and equipment tires.6. Liner shall be installed in a relaxed condition to prevent tearing due to material expansion	At areas where venting systems intersects, cut and fold back fabric to expose the dimpled core. Arrange the strips so that the top strip interconnects into the bottom strip. Unfold fabric to cover the core and		LS 11E
2. Contractor shall provide seaming equipment as recommended by the manufacturer for the selected liner type.	 and contraction. Contractor shall employ precautions to (1) prevent worker contact with contaminated soil and (2) prevent exacerbation of contamination 	the strips so that the top strip interconnects into the bottom strip. Unrold fabric to cover the core and use reinforcing tape, as approved by the manufacturer, to seal the connection to prevent sand or gravel from entering the core.		
 Contractor shall provide verification testing for each seam in the cover system. Contractor shall prevent equipment and vehicle traffic from contact with the liner. A minimum of 12 index of acute soil shall be installed between liner and 	3.03 VERIFICATION	Place vent risers per the Engineer's project specifications. Connect venting material to the appropriate end outlets and seal with fabric reinforced tape.		INC CHIGAN CHIGAN
a. A minimum of 12-inches of cover soil shall be installed between liner and equipment tires.5. Liner shall be installed in a relaxed condition to prevent tearing due to material expansion	A. Contractor shall provide copies of all verification testing to the Engineer for review.	3.03 Placement of Overlying and Adjacent Materials		
 and contraction. Contractor shall employ precautions to (1) prevent worker contact with contaminated soil and (2) prevent exacerbation of contamination 	END OF SECTION	All overlying and adjacent material shall be placed or installed using approved procedures and guidelines to prevent damage to the vent.		R HI IES, IES, INUNTY, MUNTY,
 and (2) prevent exacerbation of contamination G. Cover system shall extend a minimum of 2-feet beyond PCB-contaminated area boundary (at least to outer edge of low-permeability barrier wall). 		Equipment shall not be directly driven over and stakes or any other materials may not be driven through the vent.		NIE ARD F122 ETAI T14, SEC COUNT KTR
 H. Anchor trench: Liners shall be anchored in a 2' x 2' anchor trench. Trench backfill shall consist of cover soil material, compacted to 95% of the maximum density as determined by the modified Proctor method. 		3.04 Vent Riser Installation Vent risers shall be placed by the Installer per the Engineer's project specifications.		
 Anchor trench shall be constructed beyond the outside edge of the Low-Permeability Barrier Wall 		Vent risers will be installed within the interior of decorative rock by the General Contractor. Vent risers will extend in length to 2-feet above final finish grade, based on the final cover design (refer to Section		
 Protective Cover Soil: Contractor shall place cover soils by dumping at the perimeter of the cover area and pushing soils onto the liner, maintaining 12-inch minimum soil thickness between liner and 		02510). Vent risers shall be constructed in accordance with accepted industry standards for PVC piping. 3.05 Quality Assurance Quality Control		
equipment tires. a. Minimize traffic and soil handling to reduce risk of damage to liner.		The Engineer shall provide oversight during installation of the venting system. The General Contractor shall notify the Engineer a minimum of one week prior to commencement of installation activities. The		
 Contractor shall remove oversize particles when observed during placement to prevent liner damage. Final cover soil thickness shall measure 12 inches minimum thickness. 		Engineer's oversight shall not affect the General Contractor and Installer's obligation to comply with the project specifications, nor shall it provide relief from full administration of the warranty.		ER BEA BEA States Construction
 Contractor shall employ precautions to (1) prevent worker contact with contaminated soil and (2) prevent exacerbation of contamination. 				BDBI SROCHE BEST 1/2 DN.
 J. Topsoil: 1. Contractor shall place a minimum of 2-inches of salvaged or imported topsoil over cover soils to provide a vegetative growth matrix 				
 soils to provide a vegetative growth matrix. Contractor shall apply dormant seed at a rate of 220#/acre. Topsoil shall be stabilized with mulch erosion blanket. 				
K. ALTERNATE: Geosynthetic Clay Liner (GCL):				
 If approved, GCL may be considered as an alternate to replace the 2-foot thick compacted clay cover. Contractor shall place liner on prepared surface. 				PAI
 Seams shall be overlapped as directed by the manufacturer. Contractor shall provide additional bentonite powder for seaming as recommended by the 				ORIGINAL ISSUE DATE:
manufacturer. AKT Peerless Project #3679F6	GCI Construction, LLC AKT Peerless Project #3679F6			OCTOBER 12, 2018
Care Response Activity May 9, 2018 02510 - 3	Due Care Response Activity May 9, 2018 02510 - 4			PEA JOB NO. 2017-037
	1			SCALE: N.T.S. DRAWING NUMBER:
			SECTION 29	C-2.1
		NOT FOR CONSTRUC	XREF: S: PROJECTS\2017\2017037\DWG\17037-TOPOBASE.DWG XREF: S: PROJECTS\2017\2017037\DWG\SITE PLANS\X-BASE-17037.DWG XREF: S: PROJECTS\2017\2017037\DWG\SITE PLANS\X-TLBK-17037.DWG XREF: S: PROJECTS\2017\2017037\DWG\SITE PLANS\X-TLBK-17037.DWG	0-2.1



- MANHOLE/CATCH BASIN OR CENTERLINE OF PIPE UNLESS OTHERWISE NOTED.

- POSTED ALONG ALL FIRE LANES AT 100 FOOT INTERVALS OR AS DIRECTED BY THE FIRE OFFICIAL.
- HILLS CURRENT STANDARDS AND REGULATIONS.
- BEGINNING OF CONSTRUCTION.
- HAVING JURISDICTION AND SHALL NOT BEGIN UNTIL ALL NECESSARY PERMITS HAVE BEEN ISSUED FOR THE WORK.
- BASINS. INLETS, GATE WELLS ETC.) WITHIN GRADED AND /OR PAVED AREAS TO FINAL GRADE SHOWN ON THE PLANS. ALL SUCH ADJUSTMENTS SHALL BE INCIDENTAL TO THE JOB AND WILL NOT BE

