



Kenton C. Ward, CFM Surveyor of Hamilton County Phone (317) 776-8495 Fax (317) 776-9628 Suite 188 One Hamilton County Square Noblesville, Indiana 46060-2230

September 25, 2014

To: Hamilton County Drainage Board

Re: Little Eagle Creek Drain, Overbrook Farms Section 3 Arm

Attached is a petition filed by Fischer Development Company, along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Overbrook Farms Section 3 Arm, Little Eagle Creek Drain to be located in Clay Township. I have reviewed the submittals and petition and have found each to be in proper form.

I have made a personal inspection of the land described in the petition. Upon doing so, I believe that the drain is practicable, will improve the public health, benefit a public highway, and be of public utility and that the costs, damages and expenses of the proposed drain will probably be less than the benefits accruing to the owners of land likely to be benefited. The drain will consist of the following:

12" RCP	250 ft.	15" RCP	258 ft.
18" RCP	406 ft.	24" RCP	625 ft.
6" SSD	3,473 ft.	Open Ditch	505 ft.

The total length of the drain will be 5,517 feet.

The open ditch listed above is from Str. 618 to the open channel of Bear Creek, from Str. 617 to the open channel of Bear Creek, from Str. 601 to Str. 624, and from Str. 611 to Str. 624.

The retention pond (Lake #1) located in Common Area #9 is to be considered part of the regulated drain. Pond maintenance assumed by the Drainage Board shall include the inlet and outlet as part of the regulated drain. The maintenance of the ponds (Lake #1) such as sediment removal and erosion control along the banks, mowing and aquatic vegetation maintenance and control will be the responsibility of the Homeowners Association The Board will also retain jurisdiction for ensuring the storage volume for which the pond was designed will be retained, thereby, allowing no fill or easement encroachments.

The subsurface drains (SSD) to be part of the regulated drain are those located under the curbs and those main lines in rear yards. Only the main SSD lines which are located within the easement or right of way are to be maintained as regulated drain. Laterals for individual lots will not be considered part of the regulated drain. The portion of the SSD which will be regulated other than those under curbs are as follows:

Rear yard lots 87 to 90 from Str. 605 to Str. 606 Rear yard lots 91 to 92 from Str. 606 to Str. 607 Rear yard lots 93 to 95 from Str. 607 to Str. 619 Common Area #9 from Str. 624 going north 30 feet and south 30 feet

I have reviewed the plans and believe the drain will benefit each lot equally. Therefore, I recommend each lot be assessed equally. I also believe that no damages will result to landowners by the construction of this drain. I recommend a maintenance assessment of \$65.00 per platted lot, \$10.00 per acre for common areas, with a \$65.00 minimum, and \$10.00 per acre for roadways. With this assessment the total annual assessment for this drain will be \$1,668.50.

The petitioner has submitted surety for the proposed drain at this time. The sureties which are in the form of a Performance Bond are as follows:

Agent: Westchester Fire Insurance Company

Date: July 9, 2014 Number: K09018864

For: Storm Sewers & Sub-Surface Drains

Amount: \$189,525.00

I believe this proposed drain meets the requirements for Urban Drain Classification as set out in IC 36-9-27-67 to 69. Therefore, this drain shall be designated as an Urban Drain.

I recommend that upon approval of the above proposed drain that the Board also approve the attached non-enforcement requests. The request will be for the reduction of the regulated drain easement to those easement widths as shown on the secondary plats for Overbrook Farms Section 3 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for November 24, 2014.

Kenton C. Ward, CFM Hamilton County Surveyor

KCW/pll

STATE OF INDIANA)
COUNTY OF HAMILTON)

FILED

JAN 2 7 2014

TO: HAMILTON COUNTY DRAINAGE BOARD

% Hamilton County Surveyor
One Hamilton County Square, Suite 188
Noblesville, IN. 46060-2230

OFFICE OF HAMILTON COUNTY SURVEYOR

In the matter of Overbrook Farms Section 3 Subdivision, Section Little Eagle Creek, Bear Creek Arm Drain Petition.

Petitioner is the owner of all lots in the land affected by the proposed new regulated drain. The drainage will affect various lots in _____ Overbrook Farms Section 3 ____, a subdivision in Hamilton County, Indiana. The general route of such drainage shall be in existing easements and along public roads as shown in the plans on file in the Surveyor's Office.

Petitioner believes that the cost, damages and expenses of the proposed improvement will be less than the benefits which will result to the owners of the land likely to be benefited thereby. Petitioner believes the proposed improvements will:

- (a) improve public health
- (b) benefit a public street
- (c) be of public utility

Petitioner agrees to pay the cost of construction of the drainage system and requests periodic maintenance assessments by the Board thereafter.

The Petitioner also agrees to the following:

- To provide the Drainage Board a Performance Bond or Non-Revocable Letter of Credit
 for the portion of the drainage system which will be made a regulated drain. The bond
 will be in the amount of 120% of the Engineer's estimate. The bond will be in effect
 until construction of 100% of the system is completed and so certified by the Engineer.
- 2. The Petitioner shall retain an Engineer throughout the construction phase.
 At completion of the project the Petitioner's Engineer shall certify that the drainage system which is to be maintained as a regulated drain has been constructed as per construction plans.
- 3. The Petitioner agrees to request in writing to the County Surveyor any changes from the approved plan and must receive written authorization from the County Surveyor prior to implementation of the change. All changes shall be documented and given to the Surveyor to be placed in the Drain file.
- 4. The Petitioner shall instruct his Engineer to provide a reproducible print on a 24" x 36" Mylar of the final design of the Drainage System. This shall be submitted to the County Surveyor prior to the release of the Performance Bond.
- 5. The Petitioner shall comply with the Erosion Control Plan as specified on the construction plans. Failure to comply with the Erosion Control Plan shall be determined by the Board as being an obstruction to the drainage system. The County Surveyor shall immediately install or repair the needed measures at Petitioners cost as per IC 36-9-27-46.

Adobe PDF Fillable Form

The Petitioner further requests that the Drain be classified as an Urban Drain as per IC 36-9-27-69(d).

RECORDED OWNER(S) OF LAND INVOLVED

TOOA 110		
Signed	Signed	
Richard A. Henderson Printed Name	Printed Name	
V17/14 Date	Date	_
Signed	Signed	
Printed Name	Printed Name	
Dete	Date	

Adobe PDF Fillable Form

FINDINGS AND ORDER

CONCERNING THE MAINTENANCE OF THE

Little Eagle Creek Drain, Overbrook Farms Section 3 Arm

On this 24th day of November, 2014, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the Little Eagle Creek Drain, Overbrook Farms Section 3 Arm.

Evidence has been heard. Objections were presented and considered. The Board then adopted the original/amended Schedule of Assessments. The Board now finds that the annual maintenance assessment will be less than the benefits to the landowners and issues this order declaring that this Maintenance Fund be established.

HAMILTON COUNTY DRAINAGE BOARD

Member

Member

Attest: Keneffe Mostruseh

SUBDIVISION PERFORMANCE BOND



Bond No. K09018852

KNOW ALL MEN BY THESE PRESENTS:

10 DB-2014, 00033

The undersigned Fischer Development Company. as Principal (hereinafter called "Principal"), and Westchester Fire Insurance Company, as Surety (hereinafter called "Surety"), are held and firmly bound unto the Hamilton County Board of Commissioners, One Hamilton County Square, Noblesville, Indiana 46060 as Obligee (hereinafter called the "Obligee"), in the sum of Twelve Thousand, Eight Hundred and Seventy Dollars and 00/100 (\$12,870.00) lawful money of the United States for which payment, well and truly be made, we bind ourselves, our heirs, executors, successors and assigns jointly and severally firmly by these presents.

THE CONDITION OF THE OBLIGEE IS SUCH THAT:

WHEREAS, the Principal has agreed to construct in <u>Overbrook Farms – Section 3</u>, in <u>Carmel, Indiana</u> with the following improvements: <u>Monumentation and Markers.</u>

WHEREAS, the Principal has agreed to complete all Work within one year, unless this time period is extended by mutual agreement with the Principal and the Obligee.

NOW THEREFORE, the condition of this obligation is such, that if the above Principal shall fully and faithfully perform all of the work as required, and in accordance with the Plans and Specifications, and within the timeframe prescribed above, then this obligation shall be void, otherwise this obligation is to remain in full force and effect until the improvements are complete.

IN WITNESS WHEREOF, the signature of said Principal is hereto affixed and the corporate seal and name of the Surety is hereto affixed and attested by its duly authorized Attorney-in Fact, this 9th day of July 2014.

Principal: Fischer Development Company

By: Todd E. Huss

President

Surety: Westchester Fire Insurance Company

By: Susan A. Yeazel

Attorney-in-Fact

Fischer Development Company 3940 Olympic Blvd. – Suite 100 Erlanger, KY 41018 (859) 344-3128

- ILED

JUL 1.4 2014

OFFICE OF HAMILTON COUNTY SURVEYOR

Attachments:

1. Engineer's Construction Cost Estimate

2. Copy of the Plan (coversheet)

3. Insurance Company Power of Attorney

Westchester Fire Insurance Company 525 West Monroe Street, Suite 700 Chicago, IL 60661 (312) 775-7806



TERRA Site Development, Inc 1301 W. 161st Street Westfield, IN 46074 317-399-1216

CONSTRUCTION COST ESTIMATE

PROJECT: Overbrook Section 3		DATE: June 12, 2014
LOCATION: Carmel, Indiana	ITEM: SUMMARY	PROJECT #: 131004-1.003

DESCRIPTION		2 همرا
MONUMENTATION	 \$10,725	12,870.00
STORM SEWER	 \$157,938	189,525.00
PAVEMENT, CURBS	 \$187,260	
WATER	 \$86,637	
EROSION CONTROL	64,272	
SIDEWALKS	\$62,663	
SIGNAGE	\$ 5,225	* *
TOTAL	 574,719	

Note:

This cost opinion was generated from TERRA Overbrook Farms Section 3 Construction Plans Dated 1/17/14, Revised 6/9/14



June 26, 2014



PROJECT: Overbrook Section 3			DATE June 12.	2014
LOCATION: Carmel, Indiana	ITEM: STORM		PROJECT#: 131	004-1.003
DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
12" RCP PIPE	253	LF	\$14.00	\$3,542.00
15" RCP PIPE	258	LF	\$15.00	\$3,870.00
18" RCP PIPE	406	LF	\$16.50	\$6,699.00
24" RCP PIPE	625	LF	\$28.00	\$17,500.00
30" RCP PIPE	70	LF	\$35.00	\$2,450.00
DOUBLE CURB INLET	2	EA	\$2,600.00	\$5,200,00
INLET/BEEHIVES W/CSTG	2	EA	\$2,000.00	\$4,000.00
MANHOLES W/CSTG	- 8	EA	\$2,100.00	\$16,800.00
SPECIAL STRUCTURE 624 & 619	2	EA	\$3,100,00	\$6,200.00
HEADWALL W FLAPGATE	1	EA	\$7,200.00	\$7,200.00
OUTLET CONTROL STRUCTURE	T.	EA ~	\$3,100.00	\$3,100.00
15" END SECTION	1	EA	\$1,000.00	\$1,000.00
18" END SECTION	1	EA	\$1,100.00	\$1,100.00
24" END SECTION	2	EA	\$1,700.00	\$3,400.00
30" END SECTION	2	EA	\$2,100.00	\$4,200.00
· FILL SAND	435	TN	\$11.00	\$4,785.00
#8 BEDDING	366	· TN	\$15.00	\$5,490.00
GRANULAR BACKFILL	133	CYDS	\$10.50	\$1,396.50
6" SSD IN STREET W/STONE	2871	LF	\$9.20	\$26,413.20
6" SSD IN SWALE W/STONE	988	LF	\$12.00	\$11,856.00
SSD CLEANOUTS	3	EA	\$300.00	\$900.00
4" SUBSURFACE LOT HOOKUPS	9	EA	\$90.00	\$810.00
INFILTRATION TRENCH	350	LF	\$37.50	\$13,125.00
TELEVISING STORM PIPE	1612	. LF	\$2.50	\$4,030.00
TELEVISING 6" STREET SSD	2871	LF	\$1.00	\$2,871.00
		-,	A	
*				(2)
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TOTAL STORM

\$157,937.70

PROJECT: Overbrook Section 3			DATE: June 12.	2014
LOCATION, Carmel, Indiana	ITEM: PAVEMENT		PROJECT#/ 131004-1:003	
DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
ASPHALT:	4400	SYDS	\$24.50	\$107,800,00
ASPHALT: (In 146th Street R/W)	830	SYDS	\$26.70	\$22,161.00
3' STONE SHOULDER	90	SYDS	\$40.00	\$3,600.00
LIME STABILIZATION	5015	SYDS	\$3.25	\$16,298.75
2' CONCRETE ROLL CURB	2850	LF	\$11.00	\$31,350.00
				e
HANDICAP RAMP	8	EA	\$650.00	\$5,200.00
END OF STREET BARRICADE	1	EA	\$550.00	\$550,00
CROSSWALK (PAINTED)	1	EA	\$300.00	\$300,00
	-	***************************************) e

TOTAL PAVEMENT & CURBS

\$187,259.75

PROJECT: Overbrook Section 3.			DATE: June 12, 2	014
	И: SIDEWALKS		PROJECT# 1810	
5' CONC. WALK (FRONT OF LOTS)	2256	··· LF	\$22.50	\$50,760.00
(IN COMMON AREAS)	529	LF	\$22.50	\$11,902.50
TOTAL SIDEWALKS				\$62,662,50

PROJECT: Overbrook Section 3		l	ATE: June 12, 2	2014
LOCATION: Carmel, Indiana ITI	M: MONUMEN	TATION F	ROJECT#: 1310	004-1:003
MONUMENTATION				
MONUMENTS:				***************************************
STREET MARKERS	11	EA	\$125.00	\$1,375.00
BOUNDARY MARKERS @ R/W	34	EA	\$275.00	\$9,350.00
TOTAL MONMENTATION				\$10,725,00



PROJECT: Overbrook Section 3			DATE: June 12, 2014		
LOCATION: Carmel, Indiana	ITEM: WATER		PROJECT #: 131004-1.003		
DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL	
8" MAIN	1213	LF	\$30,00	\$36,390.00	
8" SHUT OFF VALVE	2	EA	\$1,386.00	\$2,772.00	
TEES	1	EA	\$625,00	\$625.00	
FITTINGS	8	EA	\$340,00	\$2,720.00	
REDUCERS	1	EA	\$500.00	\$500,00	
1" LATERAL W/CORP STOP< ANGLE VAI	22	EA	\$1,000.00	\$22,000,00	
BLOW OFF VALVES	1	EA	\$700.00	\$700.00	
STORM CROSSINGS	-2	`EA	\$460.00	\$920.00	
FLUSHING & TESTING	1213	LF	\$0.75	\$909.75	
HYDRANTS W/ VALVES	4	ĘĀ	\$4,700,00	\$18,800.00	
HYDRANT MARKERS	2	ΕÄ	\$150.00	\$300.00	
		VIII VIII VIII VIII VIII VIII VIII VII		у стиг	

TOTAL WATER

\$86,636.75

		DATE: June 12,	2014
ITEM: EROSION		PROJECT#: 131	004-1,003
QUANTITY	UNIT	UNIT PRICE	TOTAL
59000	SYDS	\$0.50	\$29,500.00
10900	SYDS	\$1.50	\$16,350.00
2682	LF.	\$1.75	\$4,693.50
223	SYDS	\$1.50	\$334.50
333	SYDS	\$22.00	\$7,326.00
169	SYDS	\$22.00	\$3,718.00
4	EA	\$135.00	\$540,00
. 6	EA	\$135.00	\$810.00
8	EA	\$125.00	\$1,000,00
	2682 223 333 169 4	QUANTITY UNIT 59000 SYDS 10900 SYDS 2682 LF 223 SYDS 333 SYDS 4 EA 6 EA	TEM: EROSION

TOTALEROSION

\$64,272.00

CONSTRUCTION COST ESTIMATE

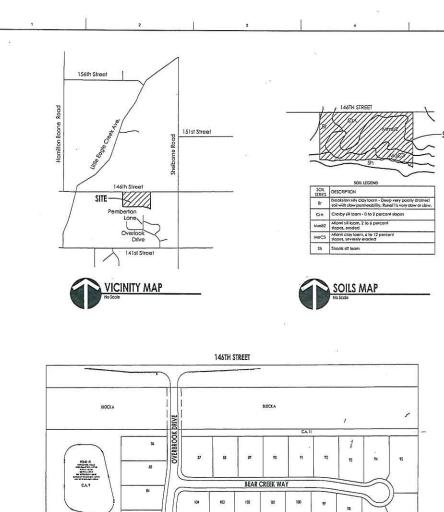
PROJECT: Overbrook Section 3			DATE: June 12, 2	014
LOCATION: Carmel, Indiana	ITEM: SIGNAGE		PROJECT#: 1310	04-1,003
DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
STREET SIGNS	2	EA	\$925.00	\$1,850.00
TRAFFIC CONTROL SIGNS	5	EA	\$675.00	\$3,375.00

TOTAL SIGNAGE

\$5,225.00

TERRA Sile Development, Inc. Project No. 131004-1.003 June 26, 2014

5



EXISTING VERBROOK FARMS: PRIMARY PLAT

BEAR CREEK

Site Construction Plans Overbrook Farms - Section 3

Part of the NE 1/4 Sec 19, T18N, R3E, Clay Township, Hamilton County, Carmel, Indiana

DATE OF SUBMISSION: January 17, 2014 DOCKET NO .: 13100022 PP AMEND

DEVELOPER:

Fischer Development Co., 6602 E. 75th Street S400 Indianopolis, IN 46250

Cantact: Richard Henderson 317-501-9172

SITE DATA:

EXISTING ZONING:

S-1/Residential - ROSO III

UTILITIES:

Water: Carmel Water 760 3rd Avenue SW, Ste 110 Carmel, IN 46032

Gas: Vectren Energy Delivery

P.O. Box 1700 Noblesville, IN 46060 317-776-5534

Electric: Duke Energy 16475 Southpark Drive Westfield, IN 46074

STREET PLAN & PROFILES AND INERSECTION DETAILS ENTRANCE AND MAINTENANCE OF TRAFFIC PLAN SANITARY SEWER PLAN & PROFILES STORM SEWER PLAN & PROFILES

WATER DISTRIBUTION PLAN & DETAIL

SHEET NAME
COVER SHEET
SITE DEVELOPMENT PLAN STORM WATER POLLUTION PREVENTION PLAN
STORM WATER POLLUTION PREVENTION DETAILS. STORM WATER POLLUTION PREVENTION NOTES POND PLANTING PLAN LANDSCAPE PLAN

Sanilary Sower: Clay Township Regional Waste 10701 North College Avenue Indianapolis, IN 46280

Telephone: 5858 N. College Avenue Indianapolis, IN 46220 317-252-5143

Fistmile: 750 Liberty Drive Westfield, IN 46074 317-569-2806

LAND DESCRIPTION

Certified By: David K. Sexion, P.E. Email Address: disexton@1ERRAsile

APPROVAL PENDING NOT FOR CONSTRUCTION

Coble: Bright House Networks 3030 Roosevell Avenue Indianapolis, IN 46218 317-972-9700

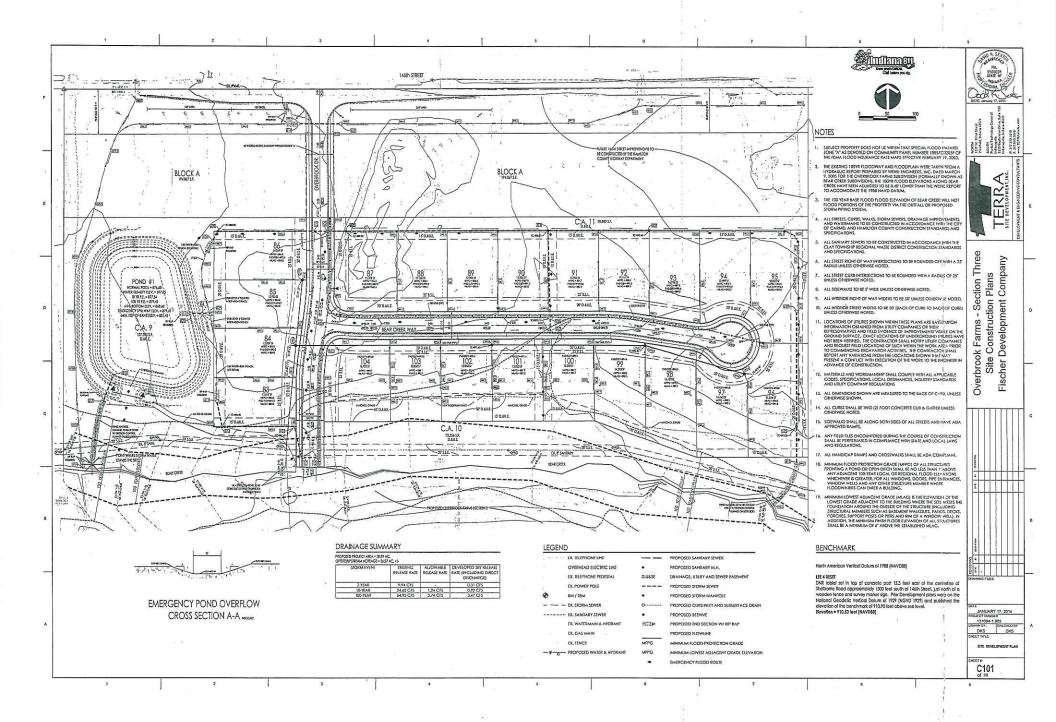
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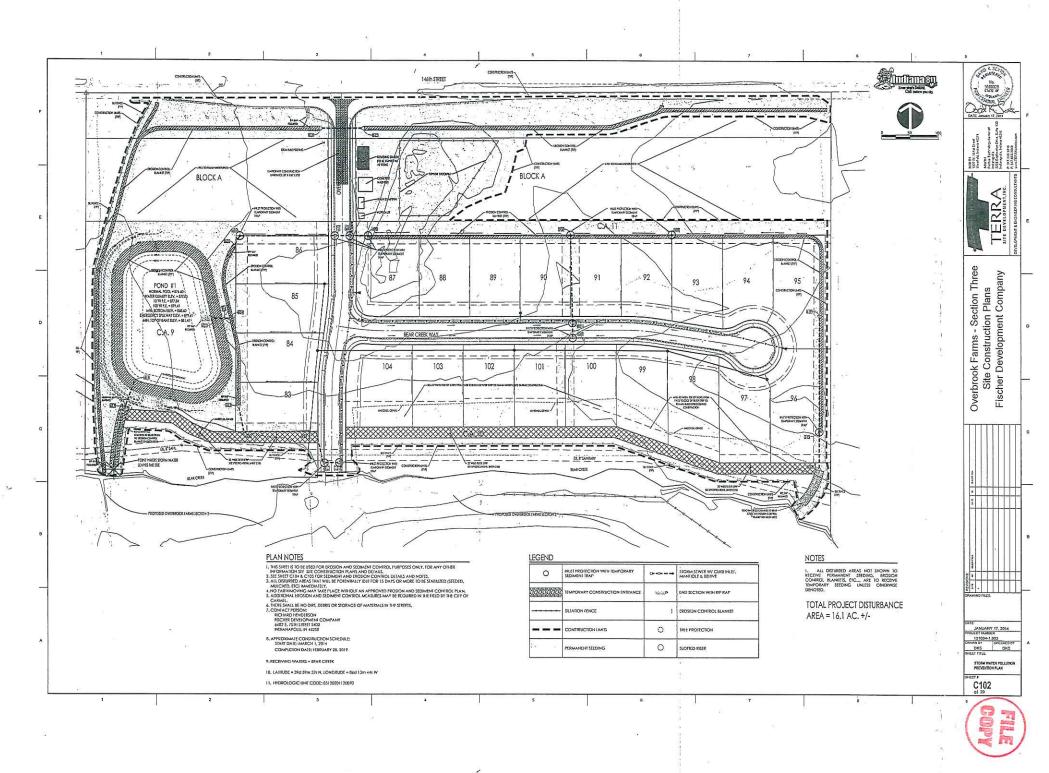
Overbrook Farms - Section Three Site Construction Plans Fischer Development Company

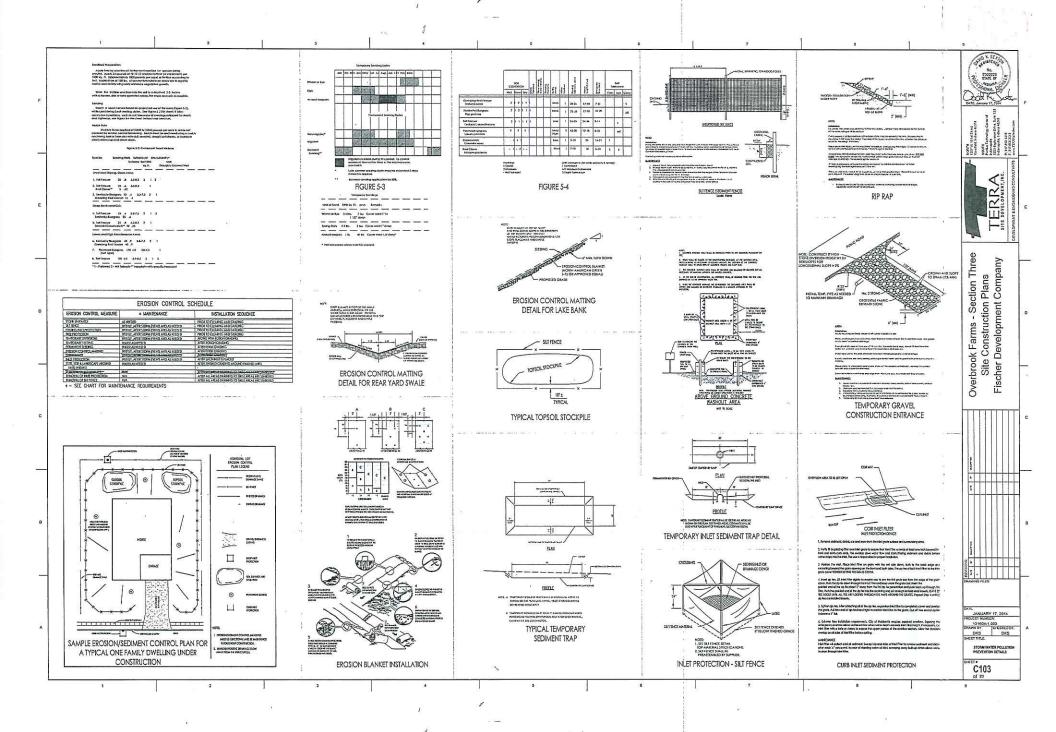
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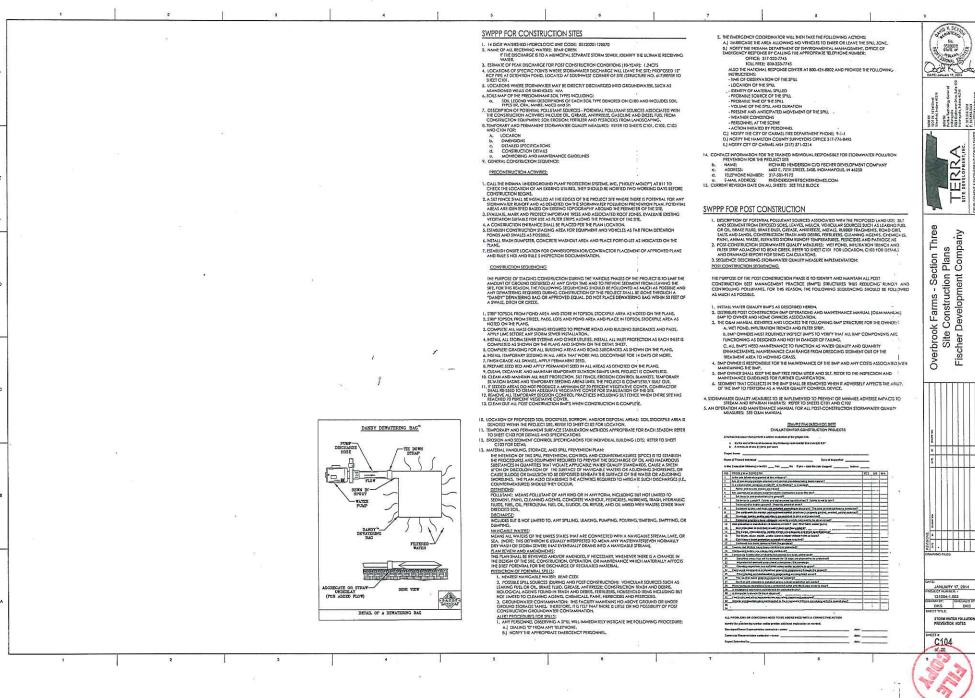
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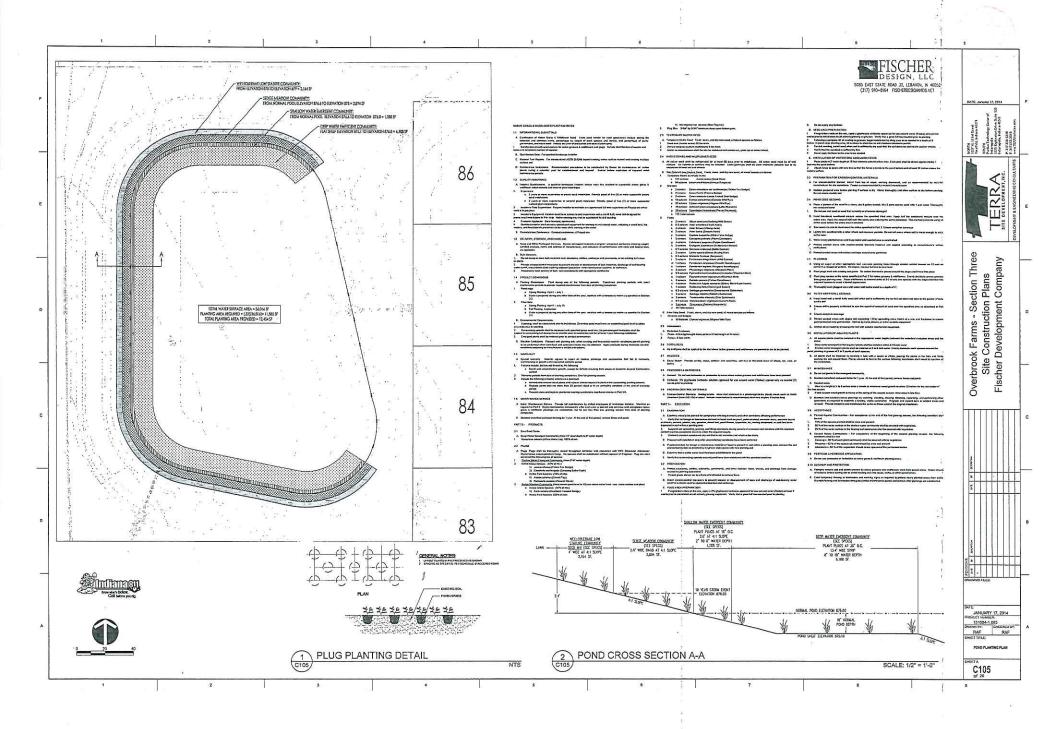


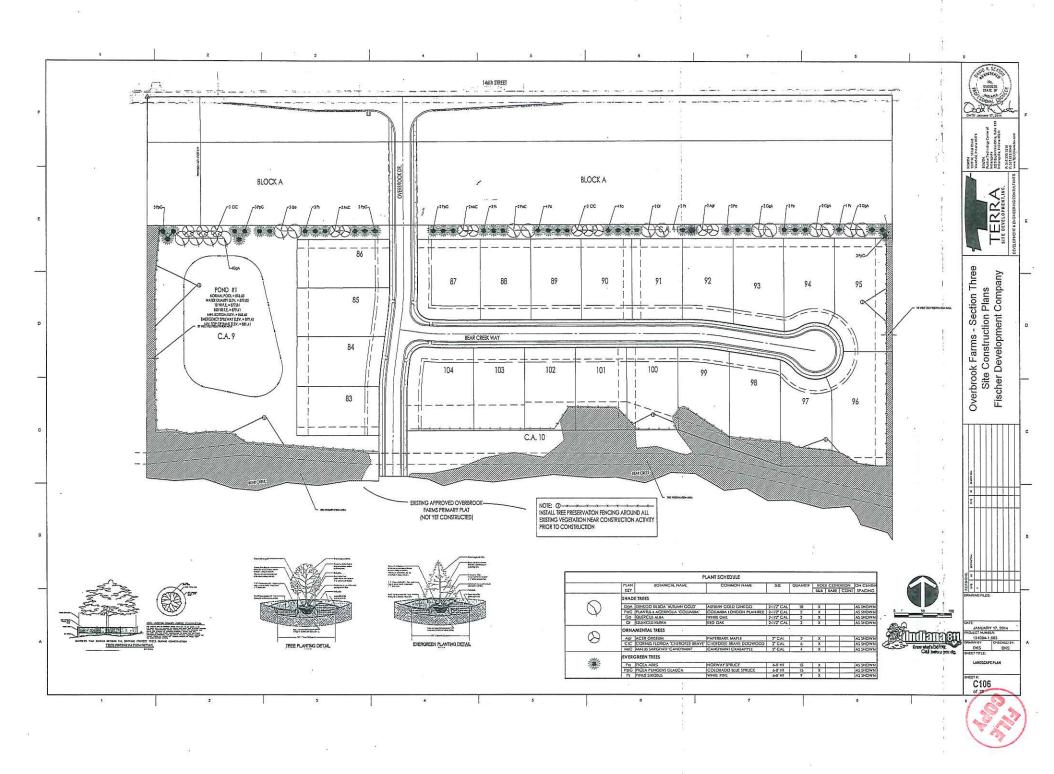


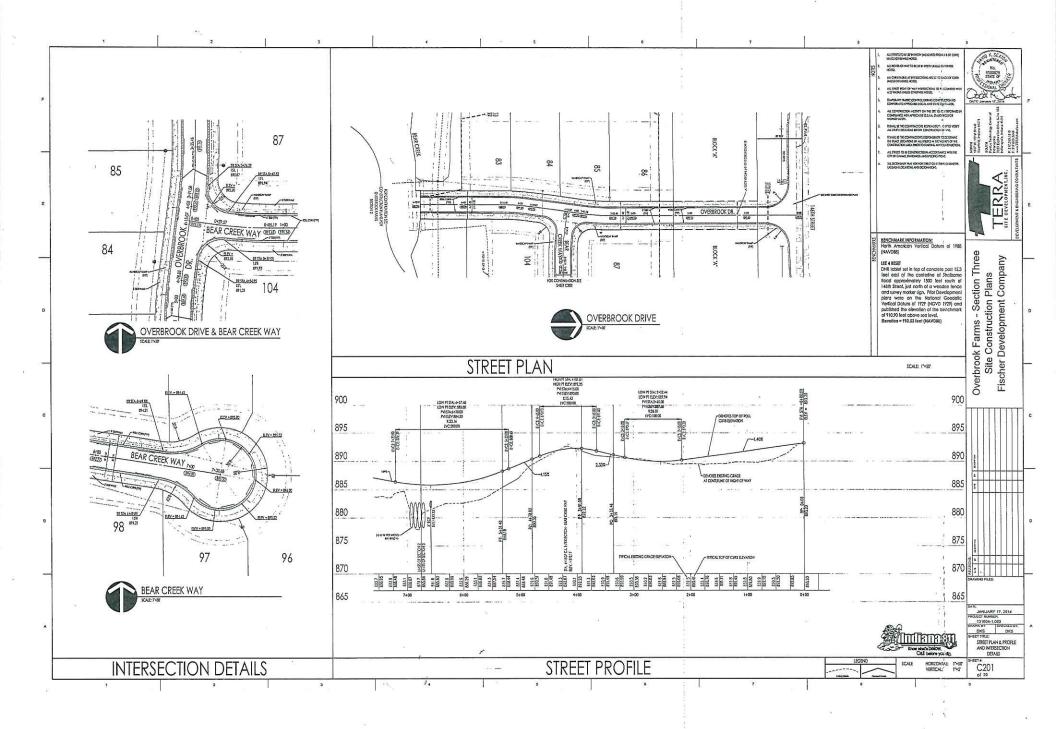


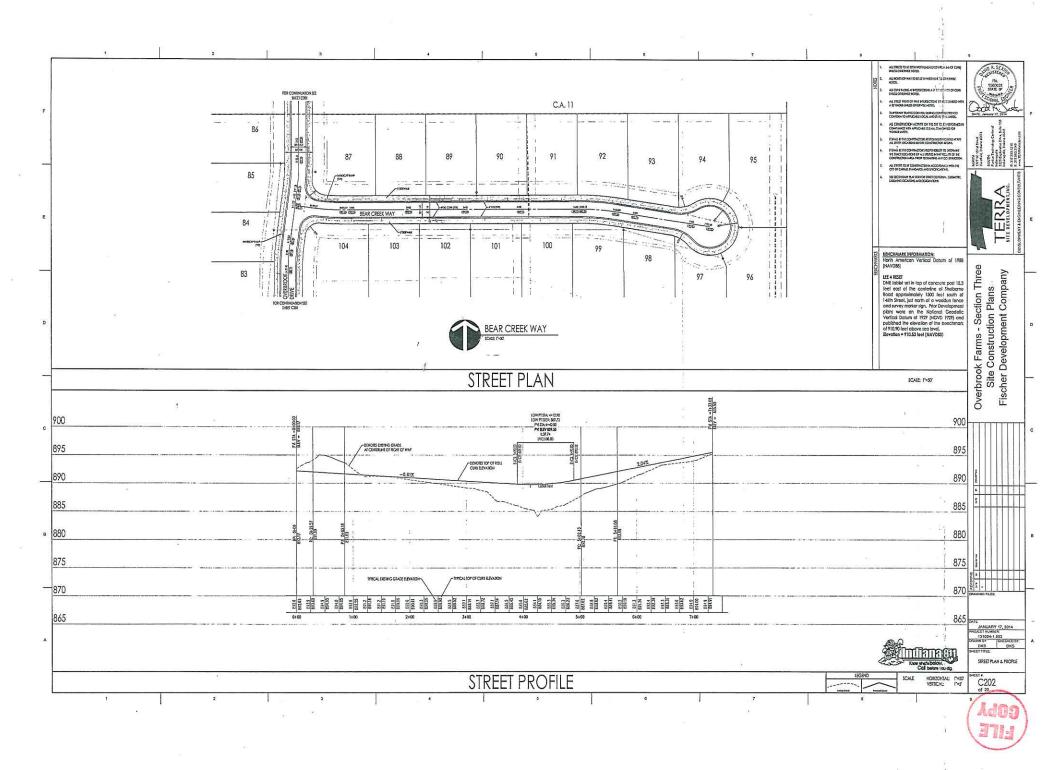


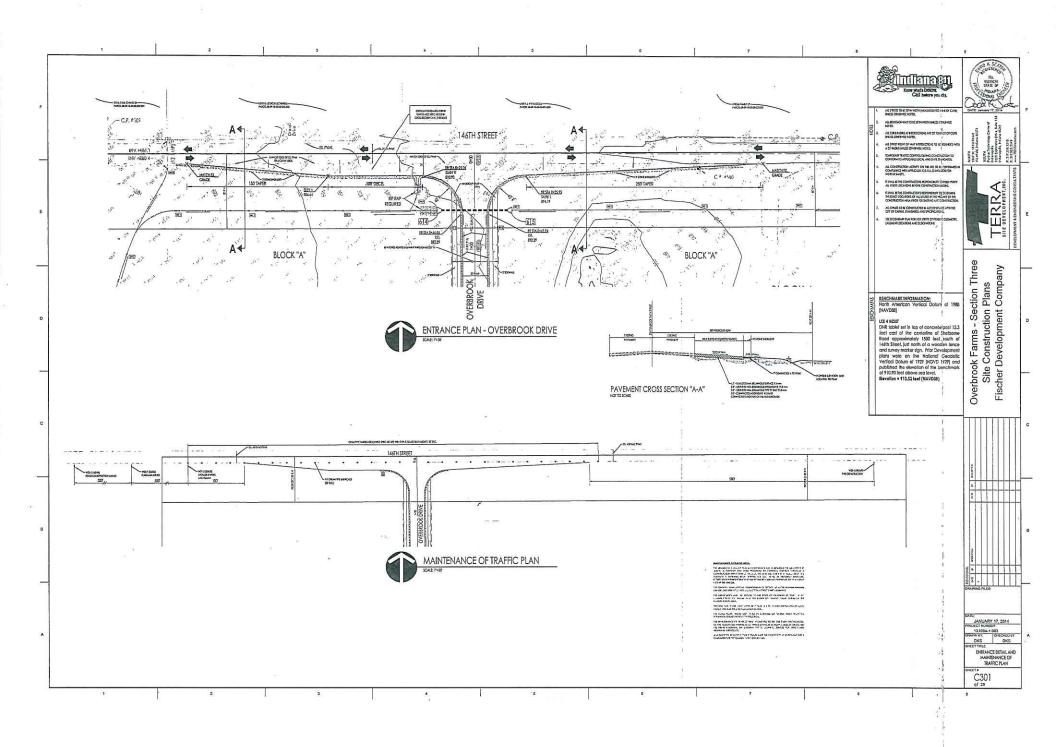
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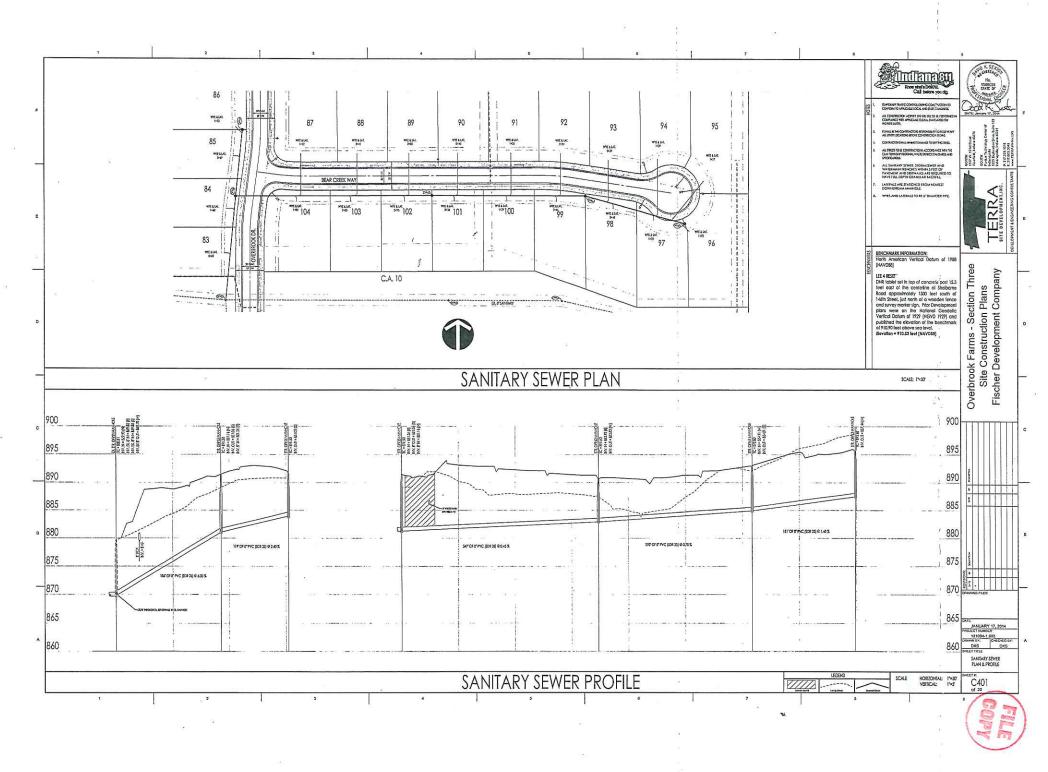


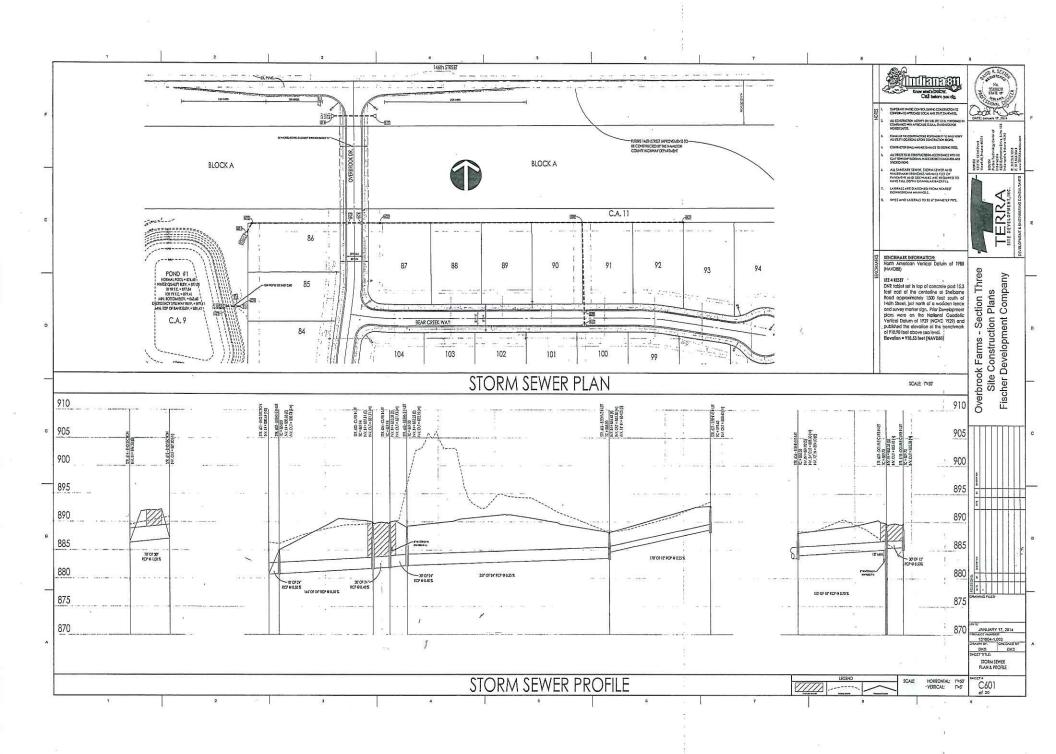


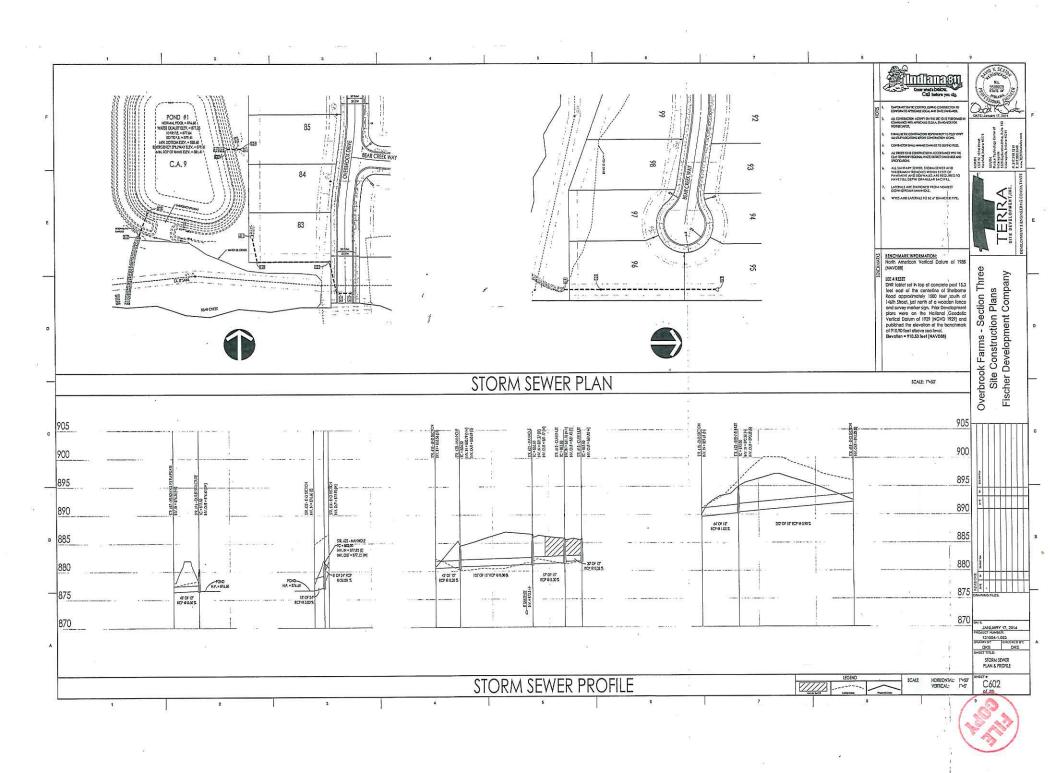


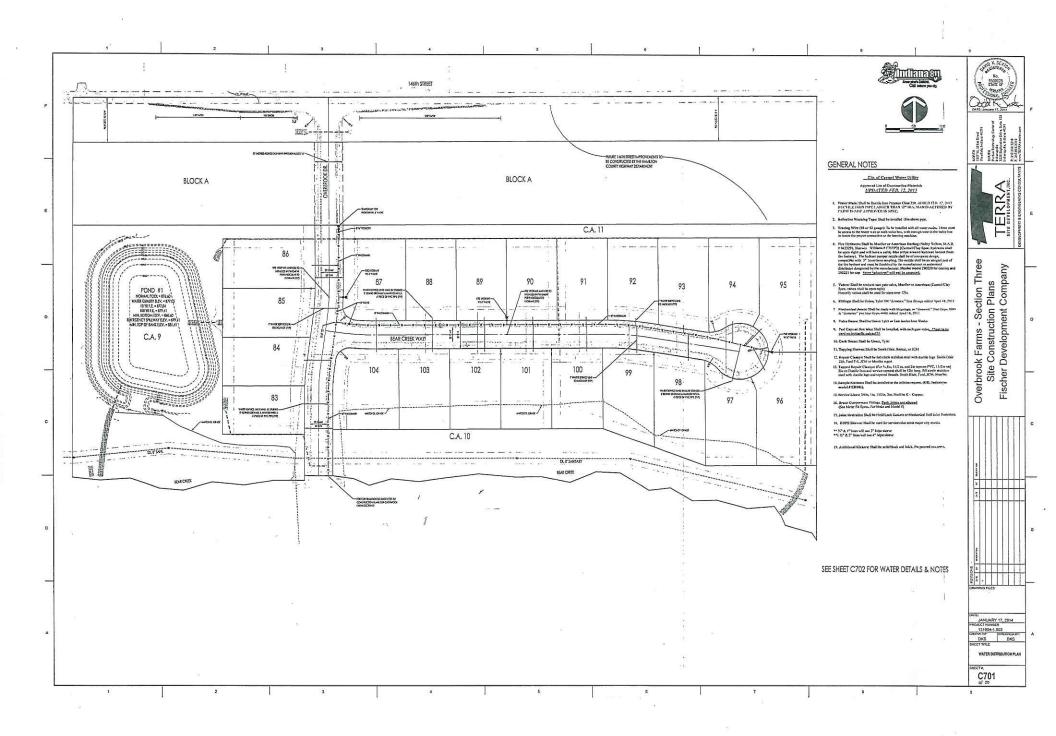


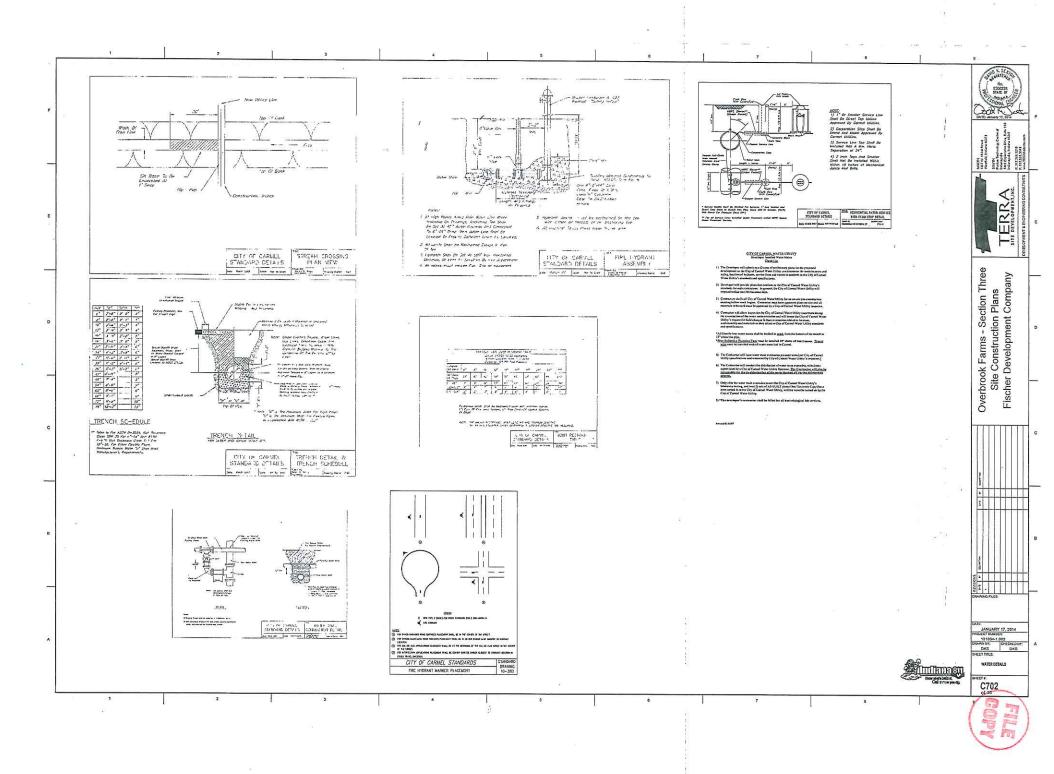


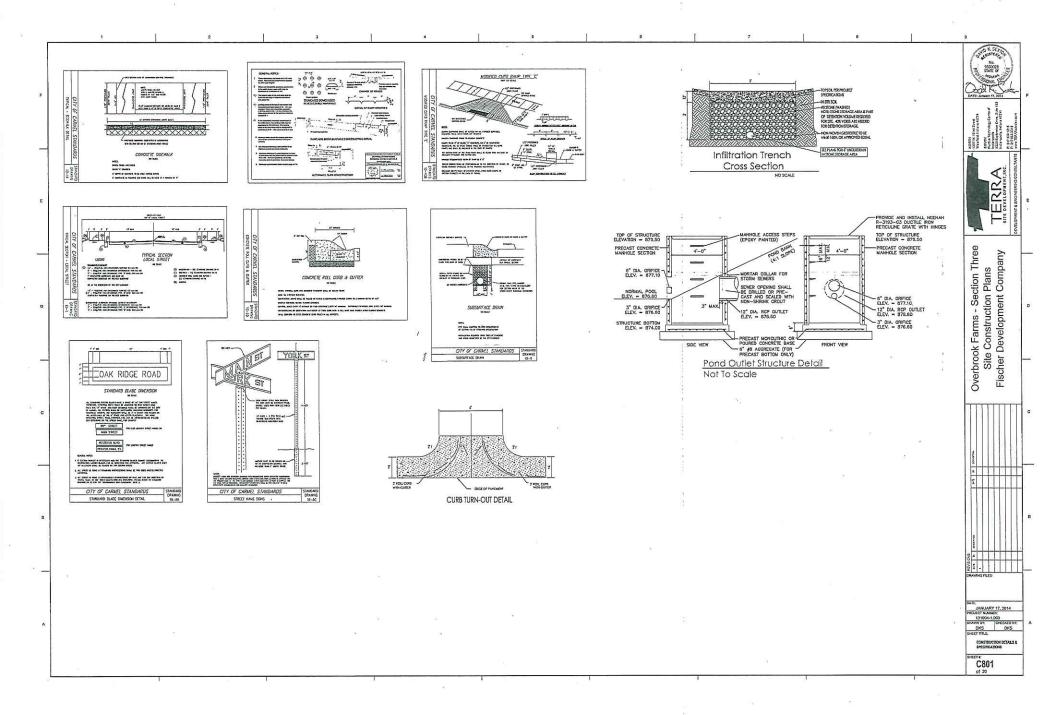


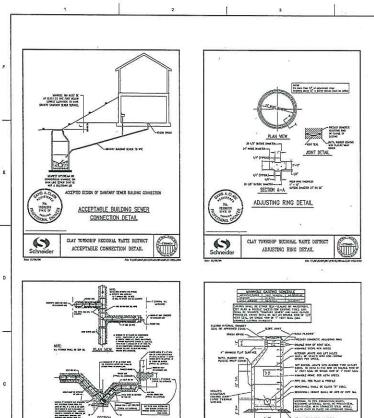








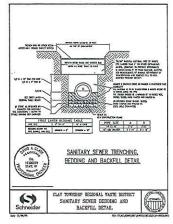




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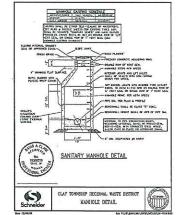
SERVICE LATERAL DETAIL CLAY TOWNSHIP REGIONAL WASTE DISTRICT

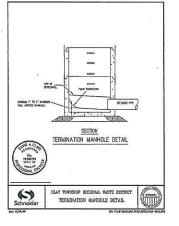
SERVICE LATERAL DETAIL NORMAL AND DEEP CONNECTION

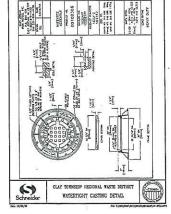








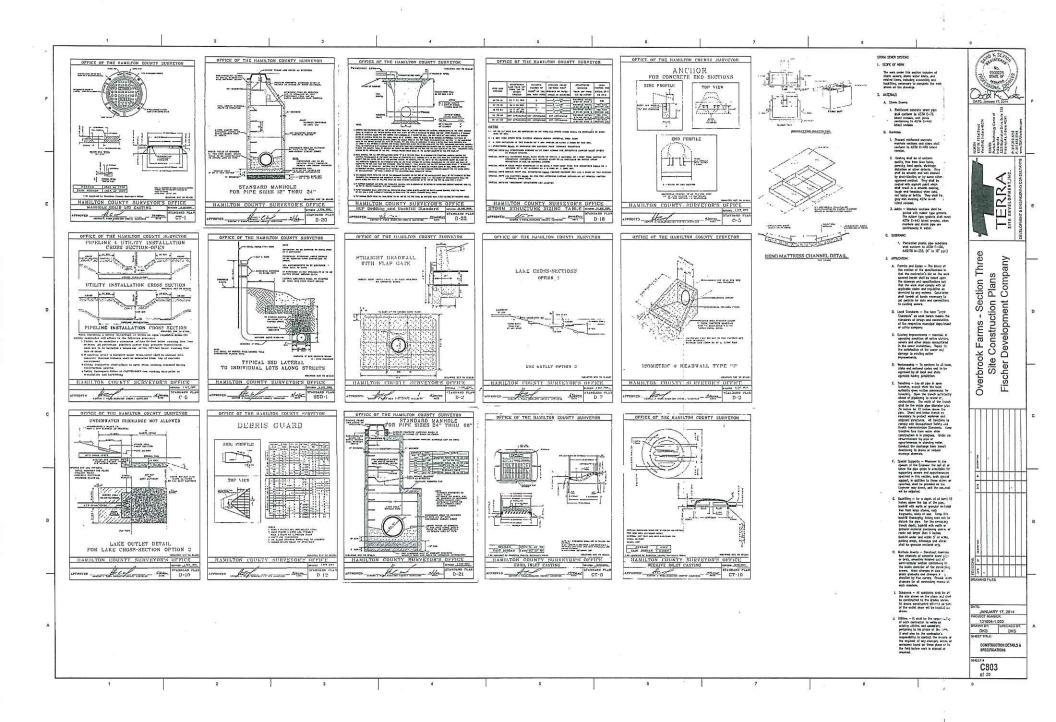






JANUARY 17, 2014

CONSTRUCTION BETALS SPECIFICATIONS C802



TYPICAL SANITARY SEWER SPECIFICATIONS TO BE USED FOR PRIVATE SEWER DEVELOPMENT CLAY TOWNSHIP REGIONAL WASTE DISTRICT

REVISED MUDDIT

- Standard specifications of Clay Township Regional Waste District (the District) and Department of Transportation (INDOT) shall apply for all work and materials. Sanitary sewer pipe shall be installed in accordance with Section 715 of the current INDOT standard read-fortisting humbholds.
- Sunitary sever proviny pipe, unless persoare nated pipe required per IAC or disectional drilled pipe, shall be Polyviayi Chloride (PVC) in accordance with ASTM D303-489 with a minimum wall Balcienes designation of SDR 3.5 and Installed per ASTM D303-489 could be specification. PVC pipe acute that the growed belt, pipes end, and pasted. The pipe shall be made of PVC pinesia leviula que classification of 124(44).
- PVC sanitary arower gravity fittings shall also conform to the explicements of the ASTM D304-19 specification. All fittings shall be modeled in one piece with underde pipe shill, guarketed elaborateric joins, and spipel ends. Single pice models TPVC with stinularly pipe belts, guskets, and repipel ends for back-to-back tee veyes are secreptable. Well thickness of all fittings teels there are informate releasing or 450M 26. Galeets for elaborating joint while benedit with a minimum elession of 450M 26. Galeets for elaborating joint while benedit with a minimum cross-sectional area of 6.20 square leiche and confident to ASTM F477 specificalism.
- All satinty mandesis shall be present outcome consistent in sourchoos with ACTD, CEST and offsection 720 of the current [MDOT] standed specification familionity. Obeyon shall econform to C443. Double now of Kest Scal for equivalent shall this be in applied to all plain and between facinity paid entility. Building deep purple shall like no more than 16-lichcet. Mailablot shall be all record for Ichage in secondare with ACTD ACTD ACTD, Standard Test. Medical for Concess Sever Mathallot by the Negative ACT Preserve (Viscousty) 701 feet.
 - A. Installation and operation of vocation equipment and indicating devices must be in accordance with munifactures? reconstructations and performance specifications which laws been provided by the monification and accepted by the District Engineer. The vacuum equipment must be capable of terting the entire munifole, including the entire that of tere triags.
- With the vacuum tester set in place:

 1. Consect the vacuum pump to the outlet port with the valve open.

 2. Draw a vacuum of ten (10) inches of Hg. (5 psi) and close the valve.
 - Accepted standards for leakage will be established from the clapsed time for a negative pressure change from ten (10) inches to nine (9) inches of nacreary. The maximum allowable leakage rate for a four (4) foot diameter manhole must be in accordance with the following:

Minimum Elapsed Time for a:

Musliple Depth Pressure Change of 1 Inch Hg

10 feet or less >10 feet but <15 feet >15 feet but <25 feet

For manholes five (5) feet in diameter, add an additional fifteen (15) seconds and for manhates six (6) feet in dimmeter, add an additional thirty (30) seconds to the time requirements for four (4) foot diameter manhates. For all manhates deeper than twenty-five (25) feet, the Engineer will determine the applicable minimum elapsed

- D. If the manhole fails the test, necessary repairs must be made, The vacuum test and repairs must be repeated until the manhole passes the test.
- E. If manhole joint scalants are pulled out during the vacuum text, the manhole must be disassembled and the joint scalants replaced.
- F. Mudgales will be subject to visual inspection with all visual leaks being remained.
- Butyl rubber coating with plastic was shall be applied around each monbole joint from 3-Dou's require teating with passes wing small to appear a found a cent manistic point item 3inches above 10-inches below each joint. The appropriate primer shall be applied prior to
 applying the rubber coating. Inside joints to be filled with precost plus material. Entire
 exterior surface of smallers years remadoles shall be appropried with a biniminous coating and
 all exterior gup exposure of riser rings shall be back plantered or grouted with nonshrink
- The numbele chimneys, including all river rings shall be sealed using flee rib internal chimney axel massafeatured by Crees, NPC, or a Dubtiet approved aquat. The flex rib internal chimney scal assafeatured by Crees, NPC, or a Dubtiet sproved aquat. The flex rib internal chimney scal shall extend from a minimoun of 3-liches bedow the top of the core section of the control of the control of the core of the core
- The easting elevations are set by plan, however, the eastings are to be adjusted in the field by the District's representative should a discrepancy occur between plan grade and existing grade. New mahole inegity and occur shall be intailed to establish grade. Maximum height of adjusting rings shall be 12-inch on existing structure adjustment and 10-inch mixtumen on new construction.

- tackfill insmalled installed or promoted mathets execution; alcounts, but on the sales were overel areas that be made with jumine manned in Debrounds belt. Science, just in Hainelss-below consistention histories (which shall include "No.37" store depth. Harmor stringens belt and the shall be also in the sales of the sales of the back of the cut of standards shall be followed. Trends uponing within 5-feet of the back of the cut of proved madesty, a fail be backfilled with premater material or the 3-store in accordance with proved madesty, a fail be backfilled with premater material or the 3-store in accordance of the sales and the sales of t Section 211 of the current INDOT standard specifications handbook.
- The Contractor shall be responsible for verifying that all state highways, city, and county permits have been obtained by the developer prior to start of construction.
- brief at leastife shall be presented to the impactine quience prior to find solutional to the District for review, ordereds Contraction bells to required to contain the disveloper. In Engineer with a set of priors to show leng actual zever locations and invertis including lateral location, depth, and length. Such askayli prior terms the received by the Engineer before the final contract payment can be authorities. An abullet shall be submitted por the Districts current intended which can be found at vow.cm/durg.
- detectable metal post set immediately above the said termination point if full connection is not immediately made.
- All ashing sever that upon completion will be required to pain a how pressure air test. Sale test with the combined consulting on ACTO FT HT 1972, and shall be wincomed by a Barrier employee or the Districts representative. The other production of the complex of the Districts representative. The ACTO FT of the Consultation of the Consultation
- Prior to final deflection test (mandred test) all mainlines shall be cleaned and free of nay debris. Deflection tests shall be performed on all flexible "pice after the final backfill inseet in pices at least 30 days. No pice paid all several a variate deflection of 5% deflections near results, ("The following are considered anon-facility inject converte pige, duelle timple, and east lon pige." The deflections test while performed with a mis-point pige, and east lon pige. The deflection test shall be performed with a mis-point pige, and east longer. The deflection test shall be performed with a mis-point pige, and east longer that the pige of the deflection of the defle
- The ends of all latenth are to be plugged water tight with a gasketed cap capable of withstanding a low pressure air test without leakage. Laterals shall be subject to visual tenk inspection at downstream manholes with all visual leaka being repaired
- Bedding for flexible pipe and rigid pipe shall be No. 8 crushed stone from 6-inches below to 12-inches above the pipe. Manholes shall be placed on no less than 6-inches of No. 8
- Water line, utility, and legal drain crossings and separations shall be in accordance with the more stringent of the two: 327 IAC 3-6-9 or the Districts standard drawings.
- The trench shall be opened sufficiently whead of pipe laying to reveal obstruction, and shall be properly protected und/or barriended when left unattended.
- No setter shall be permitted to flow into the suniary sever system during construction. Contractor shall utilize a pump to keep the water level below the pipe. Furny discharge shall be directed to a storm outful: no accordance with steam of keeleral band regulations (227 IAC 3-620)° Any pipe entering existing severes shall be floughed stereo by pen exclusional, barneed pine just it such that and follows the severe by pen exclusional, barneed pine just it such that and follows in the severes and all punch list items are complete.
- All sewer laterals installed shall be hedded the same as the main line sewer,
- Forty-circle (48) hours notice shall be given to the District prior to the start of sewer tion. Also, 48 hours notice shall be given prior to doing any testing on the
- Munhole eastings shall be stamped SANITARY SEWER (Neemb Casting R-1772 or East Jordan 102221(IS) and he self-sealing type. The casting flume shall be 3d inches and the clear opening shall be win. 20-13/16 inches. Waterlight castings shall be bold-down East Jordan 1022/1PT and also stamped SANITARY SEWER.
- 22. The minimum slope of the sower shall be: Size of Pige Minimum Constructed Slope

ALL STREET	
8-inch	0.40%
(0-inch	0.28%
12-inch	0.22%
L5-inch	0.15%
t 8-inch	0.12%

- The Contractor shaft provide measurements of the alope of the sever for each numbole section as construction progresses. Such measurements shall be certified by a Registere Land Surveyor or Engineer and he available on-site for observation by the District's inspector. No more than three manhole sections can be constructed in advance of such
- In the event the Contractor does not meet the minimum slopes, the sewer section and any other affected sewer sections shall be reconstructed to meet such minimum slopes.
- Laterals are to be installed with a minimum 14 gauge tracer wire from the wye to the terminuts. Upon lateral completion the contractor for the building or home will extend the wire from this terminus to the building cleanout adjacent to the building.

SURVINOR LATERAL INSTRUMENTAL INSTRUMENTAL

- All feature, fusioning, see, a first content in the Desird's sendary sensor application within \$10 days of notice preceding a sensor is written 200 feed by Hamban Granty or \$50 has be Content Goodly of the profit feet as extend distancy; misured Code (67.13-26.5.7). Goy see landing may content to the cover recent print before whose september peoples (public Dates).

- - pe introduced in \$1 (4) 20 July 20 July for S ARE TO ME LOCATED NO HORE, THAN THREE FEET FROM THE FOLKBATION AND FOR

City Townstep Reported Monte Debut 1970) North George State A. Interreport, Industry 46280 Phone 444-9200 Fo

- Controllers that for 14 announced in the the soften health of the larger who

TABLET

MINIMUM SPECIFIED TIME REQUIRED FOR A 1.0 psi

DROP FOR SIZE AND LENGTH OF PIPE INDICATED (testing pressure after stabilization so less than 4.0 psi and no more than 8.0 psi

Pipe Dinmeter In.	Minimum Time, mins	Length for Minimum Time, ft	Time for Longer Length, S		Specification Time for Length (L) Shown, min;s						
				100 n	150 n	200 R	250 R	300 tr	350 ft	400 ft	450 ft
-4	3:46	597	0.380 L	3:46	3:46	3:46	3:46	3:46	3:46	3:46	3:46
6	5:40	398	0 854 L	5:40	5:40	5:40	5:40	5:40	5:40	5:42	6:24
N	7:34	298	1.520 L	7:34	7:34	7:34	7:34	7:36	R:52	10:0X	11;24
10	9:26	239	2,374 L	9:26	9:26	9:26	9;53	11:52	13:51	15:49	17:4K
12	11:20	199	3.418 L	11:20	11:20	11:24	14:15	17:05	19:58	22:47	25:38
15	14:10	159	5.342 L	14:10	14:10	17:48	22:15	26:42	31:09	35:36	40:04
18	17:00	133	7.692 L	17:00	19:13	25:3K	32:03	3K:27	44:52	51:16	57:41
21	19:50	114	10,470 L	19:50	26:10	34:54	43:37	52:21	61:00	69:48	78:31
24	22:40	99	13,674 L	22:47	34:11	45:34	56:58	68:22	79:46	91:10	102:33
27	25:30	88	17.306 L	28:51	43:16	57:41	72:07	86:32	100:57	115:57	129:48
30	28:20	80	21.366 L	35:37	53:25	71:13	89:02	106:50	124:38	142:26	160:15
33	31:10	72	25.852 1.	43:05	64:38	86:10	107:43	129;16	150:43	172:21	193:53
36	34:00	85	30,768 L	51:17	76:55	102:34	128:12	153:50	179:29	205:07	230:46

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Section Three lion Plans ent Company Construction Developm Farms Overbrook Site Fischer

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C902

Power of Attorney

WESTCHESTER FIRE INSURANCE COMPANY



Know all men by these presents: That WESTCHESTER FIRE INSURANCE COMPANY, a corporation of the Commonwealth of Pennsylvania pursuant to the following Resolution, adopted by the Board of Directors of the said Company on December 11, 2006, to wit:

*RESOLVED, that the following authorizations relate to the execution, for and on behalf of the Company, of bands, undertakings, recognizances, contracts and puher written commitments of the Company entered into the ordinary course of business (auch a "Written Commitment"):

- (f) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized to execute any Written Community for and on behalf of the Company, under the seal of the Company or otherwise.
- (2) Each duly appointed atterney-in-fact of the Company or otherwise, to the extent that such action is authorized by the grant of powers provided for in such persons written appointment as such attorney-in-fact.
- (3) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized, for and on behalf of the Company, to appoint in writing any person the attorney in-fact of the Company with full power and authority to execute, for and on behalf of the Company or otherwise, such Written Commitments of the Company as may be specified in such written appointment, which specification may be by general type or class of Written Commitments or by specification of one or more particular Written Commitments.
- (4) Each of the Chairman, the President and Vice Presidents of the Company in hereby authorized, for and on behalf of the Company, to delegate in writing any other officer of the Company the authority to execute, for and on behalf of the Company, under the Company's seal or otherwise, such Written Commitments of the Company as are specified in such written delegation, which specification may be by general type or class of Written Commitments or by specification of one or more particular Written Commitments.
- (5) The signature of any officer or other person executing any Written Commitment or appointment or delegation pursuant to this Resolution, and the seal of the Company, may be affixed by facsimile on such Written Commitment or written appointment or delegation.

FURTHER RESOLVED, that the foregoing Resolution shall not be deemed to be an exclusive statement of the powers and authority of officers, employees and other persons to not for and on behalf of the Company, and such Resolution shall not limit or otherwise affect the exercise of any such power or authority otherwise validly granted or vested.

Does hereby nominate, constitute and appoint Dan E Ries, SUSAN A YEAZELL, all of the City of CINCINNATI, Ohio, each individually if there be more than one named, its true and lawful attorney-in-fact, to make, execute, seal and deliver on its behalf, and as its act and deed any and all bonds, undertakings, recognizances, contracts and other writings in the nature thereof in penalties not exceeding Two million dollars & zero cents (\$2,000,000.00) and the execution of such writings in pursuance of these presents shall be as binding upon said Company, as fully and amply as if they had been duly executed and acknowledged by the regularly elected officers of the Company at its principal office;

IN WITNESS WHEREOF, the said Stephen M. Haney, Vice-President, has hereunto subscribed his name and affixed the Corporate seal of the said WESTCHESTER FIRE INSURANCE COMPANY this 14 day of June 2013;

WESTCHESTER FIRE INSURANCE COMPANY

Stephen M. Hancy, Vice President



COMMONWEALTH OF PENNSYLVANIA COUNTY OF PHILADELPHIA ss.

On this 14 day of June, AD 2013 before me, a Notary Public of the Commonwealth of Pennsylvania in and for the County of Philadelphia came Stephen M. Haney ,Vice-President of the WESTCHESTER FIRE INSURANCE COMPANY to me personally known to be the individual and officer who executed the preceding instrument, and he acknowledged that he executed the said, and that the seal affixed to the preceding instrument is the corporate seal of said Company; that the said corporate seal and his signature were duly affixed by the authority and direction of the said corporation, and that Resolution, adopted by the Board of Directors of said Company, referred to in the preceding instrument, is now in force.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at the City of Philadelphia the day and year first above written



COMMONWEALTH OF PENNSYLVANIA
HOTARIAL SEAL
KAREN E. BRANDT, HOLEY PLESC
CALL DEBENDING PRES. CARRY

Jam Banott

I, the undersigned Assistant Secretary of the WESTCHESTER FIRE INSURANCE COMPANY, do hereby certify that the original POWER OF ATTORNEY, of which the foregoing is a substantially true and correct copy, is in full force and effect.

In witness whereof, I have hereunto subscribed my name as Assistant Secretary, and affixed the corporate seal of the Corporation, this

day of 🤻 🐧



William 1. Kelly, Assistant Discretary

THIS POWER OF ATTORNEY MAY NOT BE USED TO EXECUTE ANY BOND WITH AN INCEPTION DATE AFTER June 14, 2015.

SUBDIVISION PERFORMANCE BOND



Bond No. K09018864

KNOW ALL MEN BY THESE PRESENTS:

HCDB-2014-00034

The undersigned Fischer Development Company. as Principal (hereinafter called "Principal"), and Westchester Fire Insurance Company, as Surety (hereinafter called "Surety"), are held and firmly bound unto the Hamilton County Board of Commissioners, One Hamilton County Square, Noblesville, Indiana 46060 as Obligee (hereinafter called the "Obligee"), in the sum of One Hundred and Eighty-Nine Thousand, Five Hundred and Twenty-Five Dollars and 00/100 (\$189,525.00) lawful money of the United States for which payment, well and truly be made, we bind ourselves, our heirs, executors, successors and assigns jointly and severally firmly by these presents.

THE CONDITION OF THE OBLIGEE IS SUCH THAT:

WHEREAS, the Principal has agreed to construct in <u>Overbrook Farms – Section 3</u>, in <u>Carmel, Indiana</u> with the following improvements: <u>Storm Sewers.</u>

WHEREAS, the Principal has agreed to complete all Work within one year, unless this time period is extended by mutual agreement with the Principal and the Obligee.

NOW THEREFORE, the condition of this obligation is such, that if the above Principal shall fully and faithfully perform all of the work as required, and in accordance with the Plans and Specifications, and within the timeframe prescribed above, then this obligation shall be void, otherwise this obligation is to remain in full force and effect until the improvements are complete.

IN WITNESS WHEREOF, the signature of said Principal is hereto affixed and the corporate seal and name of the Surety is hereto affixed and attested by its duly authorized Attorney-in Fact, this 9th day of July 2014.

Principal: Fischer Development Company

By: Todd E. Huss

President

Fischer Development Company 3940 Olympic Blvd.-Suite 100 Erlanger, KY 41018 (859) 344-3128 Surety: Westchester Fire Insurance Company

By: Susan A. Yeazell Attorney-in-Fact

Westchester Fire Insurance Company 525 West Monroe Street, Suite 700 Chicago, IL 60661 (312) 775-7806

Attachments:

- 1. Engineer's Construction Cost Estimate
- 2. Copy of the Plan (coversheet)
- 3. Insurance Company Power of Attorney

FILED

JUL 14 2014





TERRA Site Development, Inc 1301 W. 161st Street Westfield, IN 46074 317-399-1216

CONSTRUCTION COST ESTIMATE

PROJECT: Overbrook Section 3		DATE: June 12, 2014
LOCATION: Carmel, Indiana	ITEM: SUMMARY	PROJECT #: 131004-1.003

DESCRIPTION			2 ani
MONUMENTATION	<i>5</i> 4	\$10,725	12,890.00
STORM SEWER	ē.	\$157,938	12,8 70.0 0 189,525.00
PAVEMENT, CURBS		\$187,260	
WATER		\$86,637	
EROSION CONTROL	1	\$64,272	
SIDEWALKS	ž.	\$62,663	
SIGNAGE	8)	\$5,225	
TOTAL		\$574,719	

Note:

This cost opinion was generated from TERRA Overbrook Farms Section 3 Construction Plans Dated 1/17/14, Revised 6/9/14



June 26, 2014



PROJECT: Overbrook Section 3	DATE: June 12, 2014			
LOCATION: Carmel, Indiana	ITEM: STORM		PROJECT#: 131	1004-1.003
DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
12" RCP PIPE	253	LF	\$14.00	\$3,542.00
15" RCP PIPE	. 258	LF	\$15.00	\$3,870.00
18" RCP PIPE	406	LF	\$16.50	\$6,699.00
24" RCP PIPE	625	LF	\$28,00	\$17,500.00
30" RCP PIPE	70	LF	\$35.00	\$2,450.00
DOUBLE CURB INLET	2	EA	\$2,600.00	\$5,200.00
INLET/BEEHIVES W/CSTG	2	EA	\$2,000.00	\$4,000.00
MANHOLES W/CSTG	8	EA	\$2,100.00	\$16,800.00
SPECIAL STRUCTURE 624 & 619	2	EA	\$3,100.00	\$6,200.00
HEADWALL W FLAPGATE	1	EA	\$7,200.00	\$7,200.00
OUTLET CONTROL STRUCTURE	1:	EA	\$3,100.00	\$3,100.00
15" END SECTION	1	. EA	\$1,000.00	\$1,000.00
18" END SECTION	1	EA	\$1,100.00	\$1,100.00
- 24" END SECTION	2	. EA	\$1,700.00	\$3,400.00
30" END SECTION	2	EA	\$2,100.00	\$4,200.00
FILL SAND	435	TN	\$11.00	\$4,785.00
#8 BEDDING	366	TN	\$15.00	\$5,490.00
GRANULAR BACKFILL	133	CYDS	\$10.50	\$1,396.50
6" SSD IN STREET W/STONE	2871	LF	\$9.20	\$26,413.20
6" SSD IN SWALE W/STONE	988	LF	\$12.00	\$11,856.00
SSD CLEANOUTS	3	EA	\$300.00	\$900,00
4" SUBSURFACE LOT HOOKUPS	9	EA	\$90,00	\$810.00
INFILTRATION TRENCH	350	LF	\$37.50	\$13,125.00
TELEVISING STORM PIPE	1612	LF	\$2.50	\$4,030.00
TELEVISING 6" STREET SSD	2871	LF	\$1.00	\$2,871.00
0515404	01 15.	•	and a fine assessment and a	

TOTALSTORM

\$157,937.70



PROJECT: Overbrook Section 3	DATE: June 12, 2014				
OCATION: Carmel, Indiana	ITEM: PAVEMENT		PROJECT#: 131	004-1:003	
DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL	
ASPHALT:	4400	SYDS	\$24,50	\$107,800.00	
ASPHALT: (In 146th Street R/W)	. 830	SYDS	\$26.70	\$22,161.00	
3' STONE SHOULDER	90	SYDS	\$40.00	\$3,600.00	
LIME STABILIZATION	5015	SYDS	\$3.25	\$16,298.75	
2' CONCRETE ROLL CURB	2850	LF	\$11.00	\$31,350.00	
C.G.					
HANDICAP RAMP	8	EA	\$650.00	\$5,200.00	
END OF STREET BARRICADE	1	EA	\$550.00	\$550,00	
CROSSWALK (PAINTED)	1	EA	\$300.00	\$300,00	
and the state of t					
FOXAL BAVENENY A GURBO				A STATE OF THE STA	

TOTAL PAVEMENT & CURBS

\$187,259.75

PROJECT; Overbrook Section 3			DATE: June 12, 2	014
LOCATION: Carmel; Indiana	ITEM: SIDEWALKS		PROJECT#: 1310	004-1,003
5' CONC. WALK (FRONT OF LOTS)	2256	LF	\$22.50	\$50,760.00
(IN COMMON AREAS)	529	LF	\$22.50	\$11,902.50
TOTAL SIDEWALKS			AND MANAGEMENT AND ADDRESS OF THE PARTY OF T	SA2 442 FO

PROJECT: Overbrook Section 3		Į.	DATE: June 12, 2	014
	EM: MONUMEN	TATION I	PROJECT#: 1310	004-1,003
MONUMENTATION MONUMENTS:				
STREET MARKERS	11	EA	\$125.00	\$1,375.00
BOUNDARY MARKERS @ R/W	34	EA	\$275,00	\$9,350.00
TOTAL MONMENTATION		L.		\$10,725.00



CONSTRUCTION COST ESTIMATE

PROJECT: Overbrook Section 3	DATE: June 12, 2014					
LOCATION: Carmel, Indiana	ITEM: WATER		PROJECT#: 131004-1,003			
DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL		
8" MAIN	1213	LF	\$30.00	\$36,390.00		
8" SHUT OFF VALVE	2	EA	\$1,386.00	\$2,772.00		
TEES	1	EA ·	\$625,00	\$625.00		
FITTINGS	8	EA	\$340.00	\$2,720.00		
REDUCERS	1	EA	\$500.00	\$500.00		
1" LATERAL W/CORP STOP< ANGLE VAL	22	EA	\$1,000.00	\$22,000.00		
BLOW OFF VALVES	1	EA	\$700.00	\$700.00		
STORM CROSSINGS	2	EA	\$460.00	\$920.00		
FLUSHING & TESTING	1213	LF	\$0.75	\$909.75		
HYDRANTS W/ VALVES	4	EA	\$4,700.00	\$18,800.00		
HYDRANT MARKERS	2	EA	\$150.00	\$300.00		

TOTAL WATER

\$86,636.75

TERRA Site Development, Inc. Project No. 131004-1,003 June 26, 2014

CONSTRUCTION COST ESTIMATE

	DATE: June 12, 2014					
ITEM: EROSION		PROJECT#: 181	004-1.003			
QUANTITY	UNIT	UNIT PRICE	TOTAL			
59000	SYDS	\$0.50	\$29,500.00			
10900	SYDS	\$1.50	\$16,350.00			
2682	LF	\$1.75	\$4,693.50			
223	SYDS	\$1.50	\$334.50			
333	SYDS	\$22.00	\$7,326,00			
169	SYDS	\$22.00	\$3,718.00			
4	EA	\$135,00	\$540,00			
. 6	EA	\$135.00	\$810.00			
8	EA	\$125.00	\$1,000.00			
	59000 10900 2682 223 333 169 4	QUANTITY UNIT 59000 SYDS 10900 SYDS 2682 LF 223 SYDS 333 SYDS 169 SYDS 4 EA 6 EA	TEM: EROSION			

TOTAL EROSION

\$64,272.00

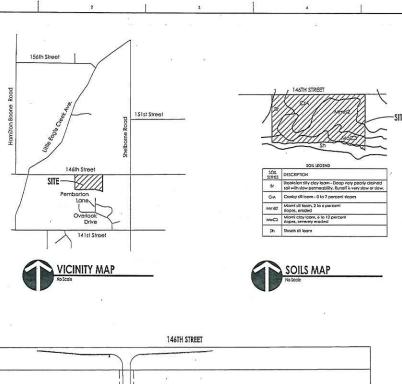
CONSTRUCTION COST ESTIMATE

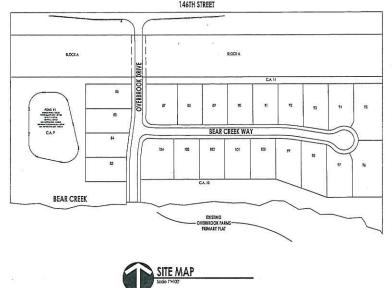
PROJECT: Overbrook Section 3			DATE: June 12, 2	014
LOCATION: Carmel, Indiana	ITEM: SIGNAGE		PROJECT#, 1310	04-1,003
DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
STREET SIGNS	2	EA	\$925.00	\$1,850.00
TRAFFIC CONTROL SIGNS	5	EA	\$675.00	\$3,375.00

TOTALSIGNAGE

\$5,225.00

 TERRA Site Development, Inc. -- --Project No. 131004-1,003
 June 26, 2014





Site Construction Plans Overbrook Farms - Section 3

Part of the NE 1/4 Sec 19, T18N, R3E, Clay Township, Hamilton County, Carmel, Indiana

DATE OF SUBMISSION: January 17, 2014 13100022 PP AMEND DOCKET NO .:

DEVELOPER:

Fischer Development Co., 6602 E. 75th Street S400 Indianapolis, IN 46250

Contact: Richard Henderson 317-501-9172 Email: rhenderson@fischerhomes.com

SITE DATA:

EXISTING ZONING:

S-1/Residential - ROSO III

UTILITIES:

Water: Cormel Water 760 3rd Avenue SW, Ste 110 Carmel, IN 46032 317-571-2443

Gas: Vectron Energy Delivery

P.O. Box 1700 Noblesville, IN 46060 317-776-5534 Sanitary Sewer: Clay Township Regional Waste 10701 North College Avenue Indianapolis, IN 46280 317-844-9200 Electric: Duke Energy 16475 Southpark Drive

Westfield, IN 46074 317-896-6711

Firstmile: 750 Liberty Drive Westfield, IN 46074 317-569-2806

Telephone: SBC 5858 N. College Avenue Indianapolis; IN 46220 317-252-5143

1	NDEX
SHEET No:	SHEET NAME
C100	COVER SHEET
C101	SITE DEVELOPMENT PLAN
C102	STORM WATER POLLUTION PREVENTION PLAN
C103	STORM WATER POLLUTION PREVENTION DETAILS
C104	STORM WATER POLLUTION PREVENTION NOTES
C105	POND PLANTING PLAN
C104	LANDSCAPE PLAN
C201-C202	STREET PLAN & PROFILES AND INERSECTION DETAILS
C301	ENTRANCE AND MAINTENANCE OF TRAFFIC PLAN
C401	SANITARY SEWER PLAN & PROFILES
C401-C402	STORM SEWER PLAN & PROFILES
C701-C702	WATER DISTRIBUTION PLAN & DETAILS
C801-803	GENERAL DETAILS
C981-902	SPECIFICATIONS

Cable: Bright House Networks 3030 Roosevell Avenue

LAND DESCRIPTION



APPROVAL PENDING NOT FOR CONSTRUCTION

Overbrook Farms - Section Three Site Construction Plans Fischer Development Company



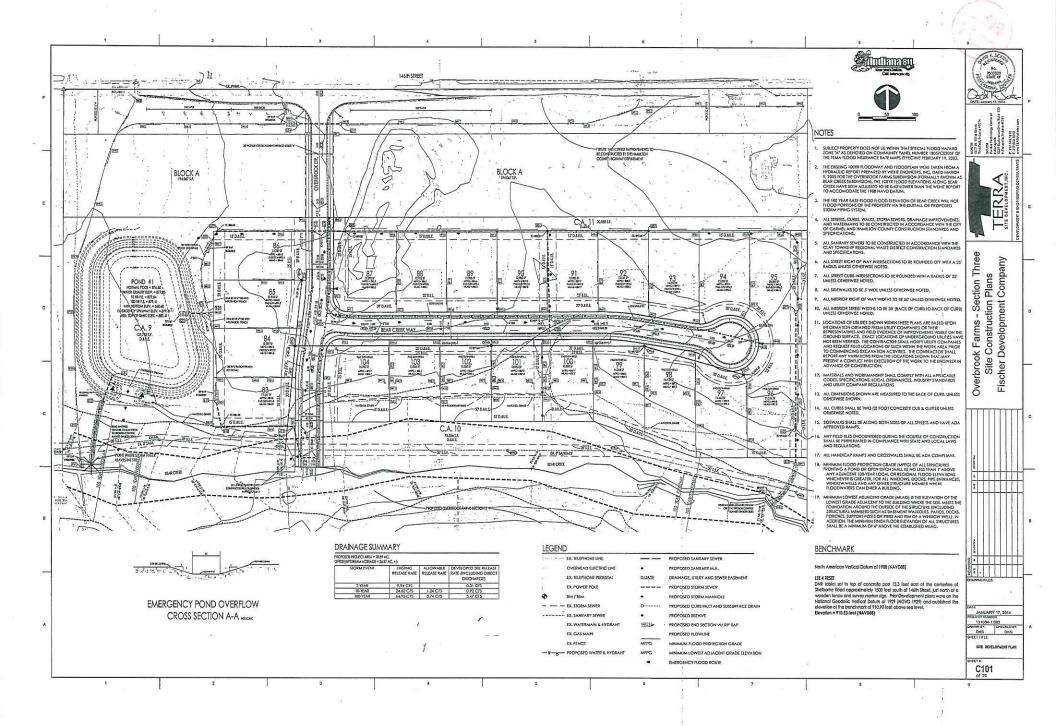
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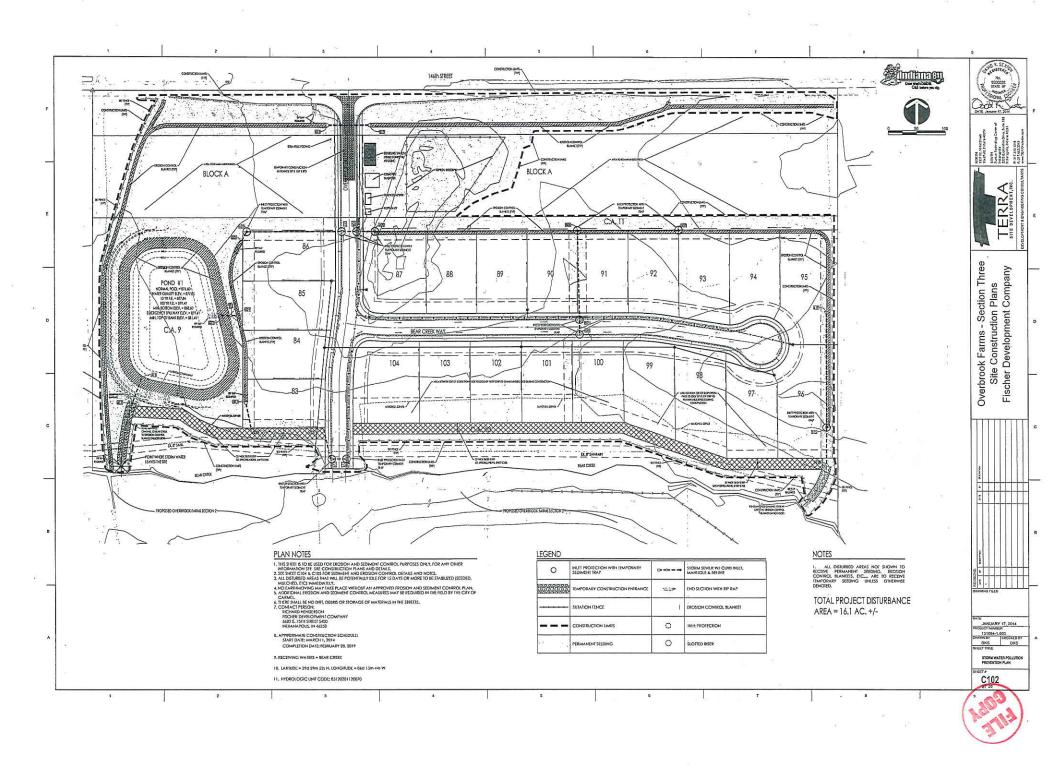
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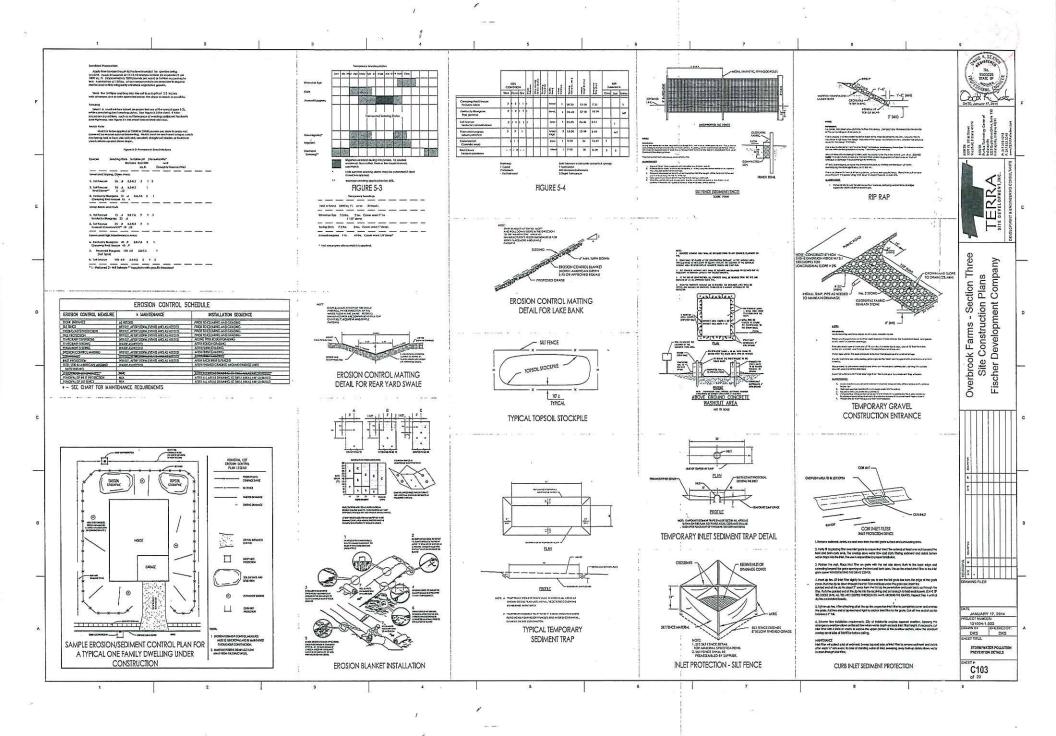
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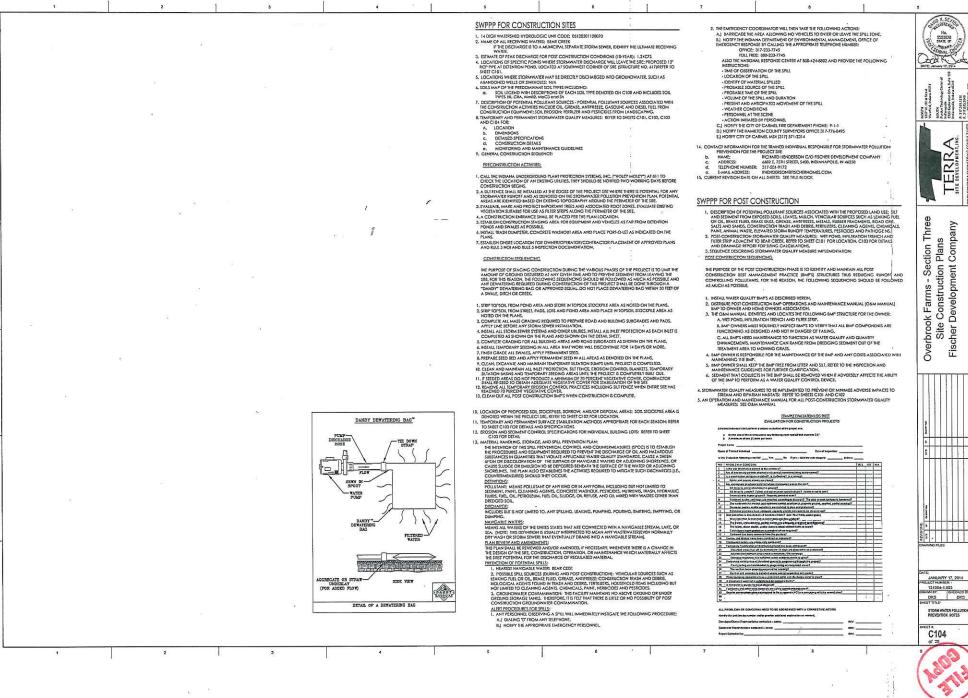
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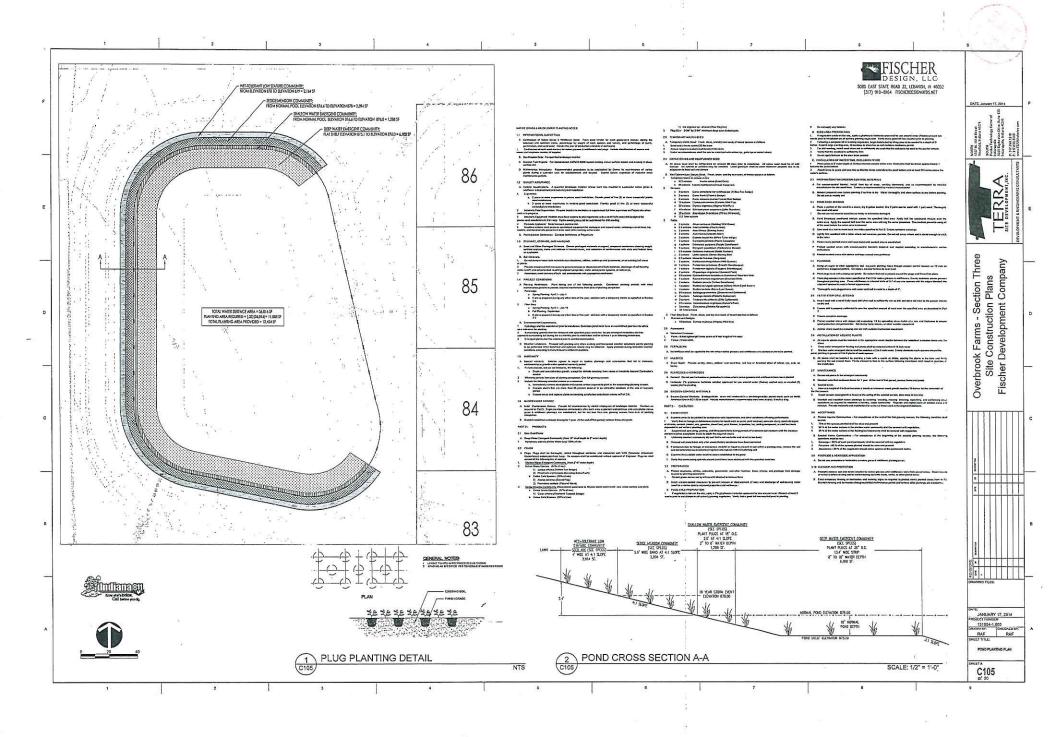


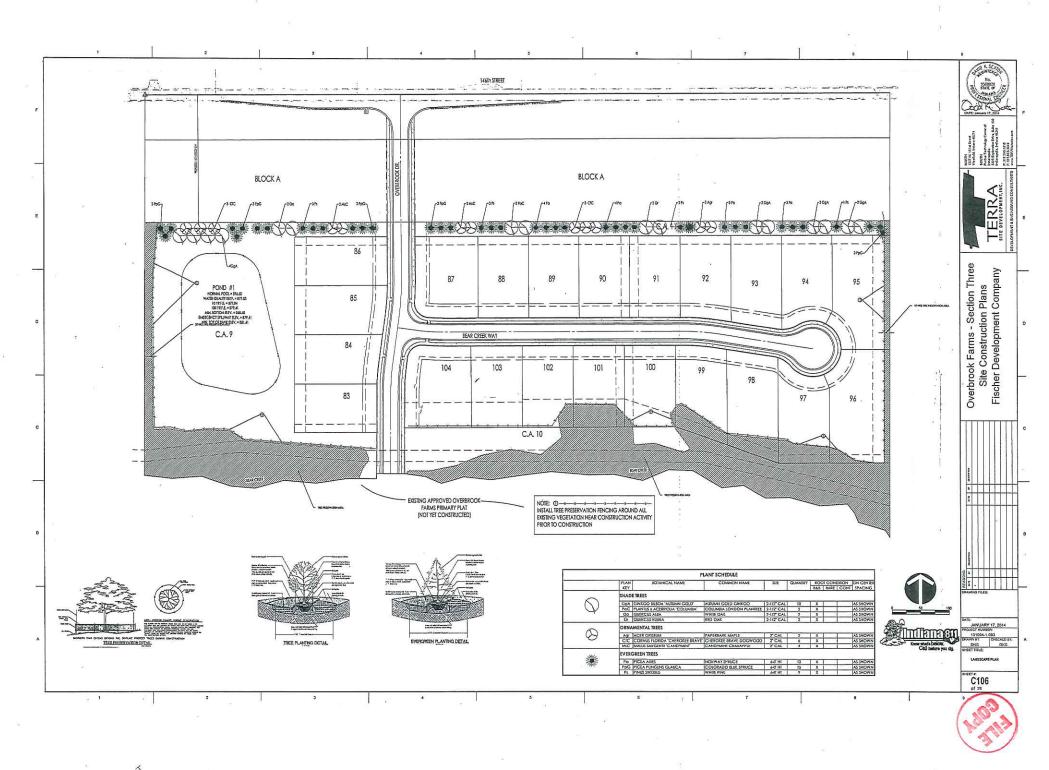


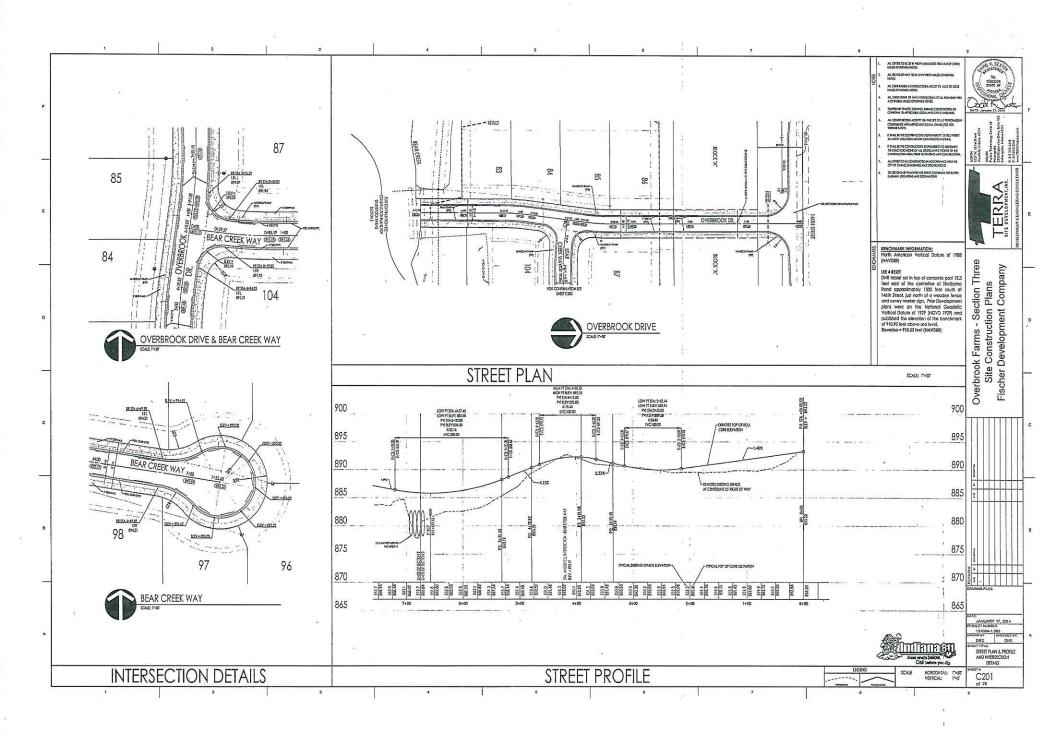


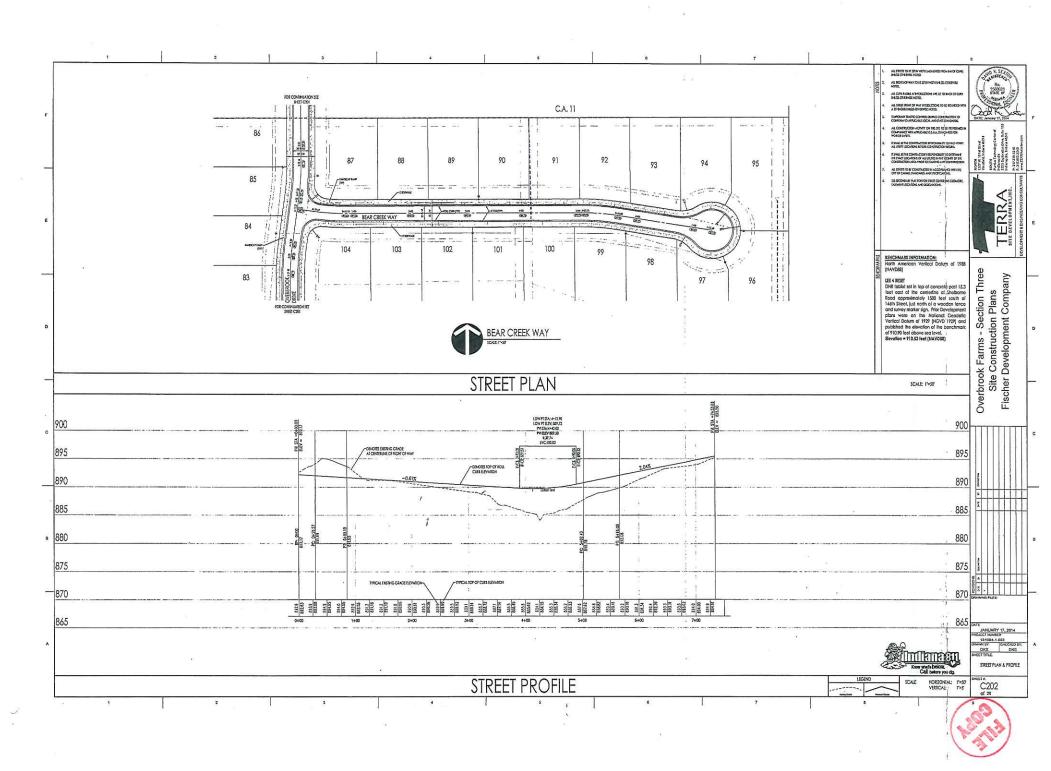


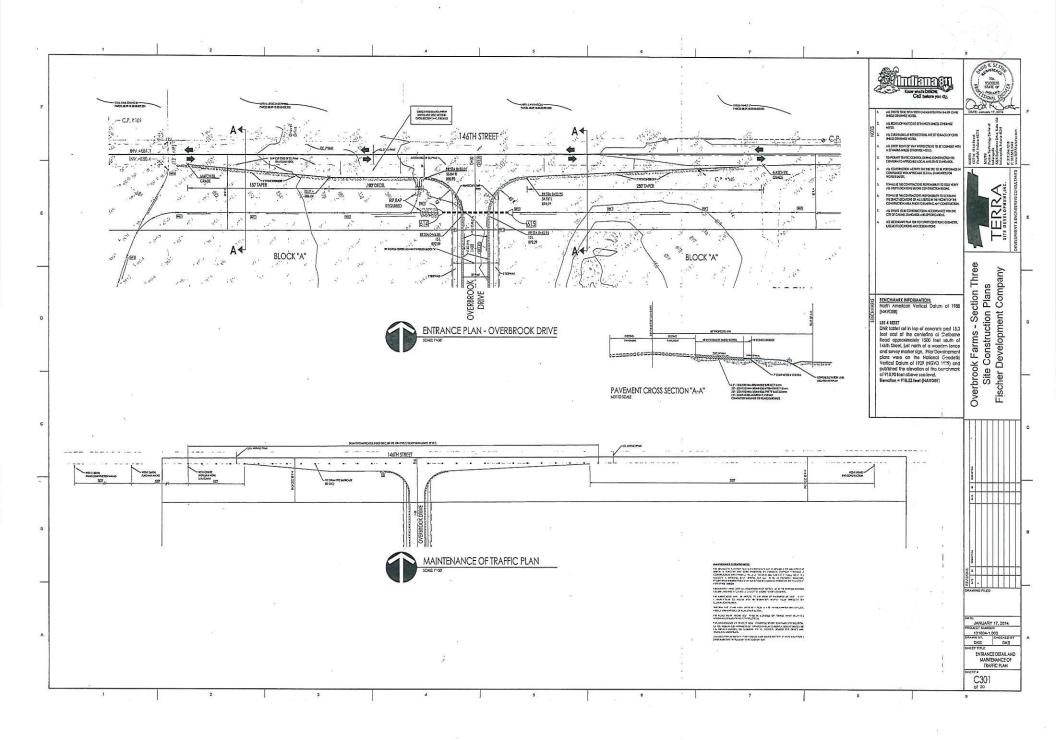
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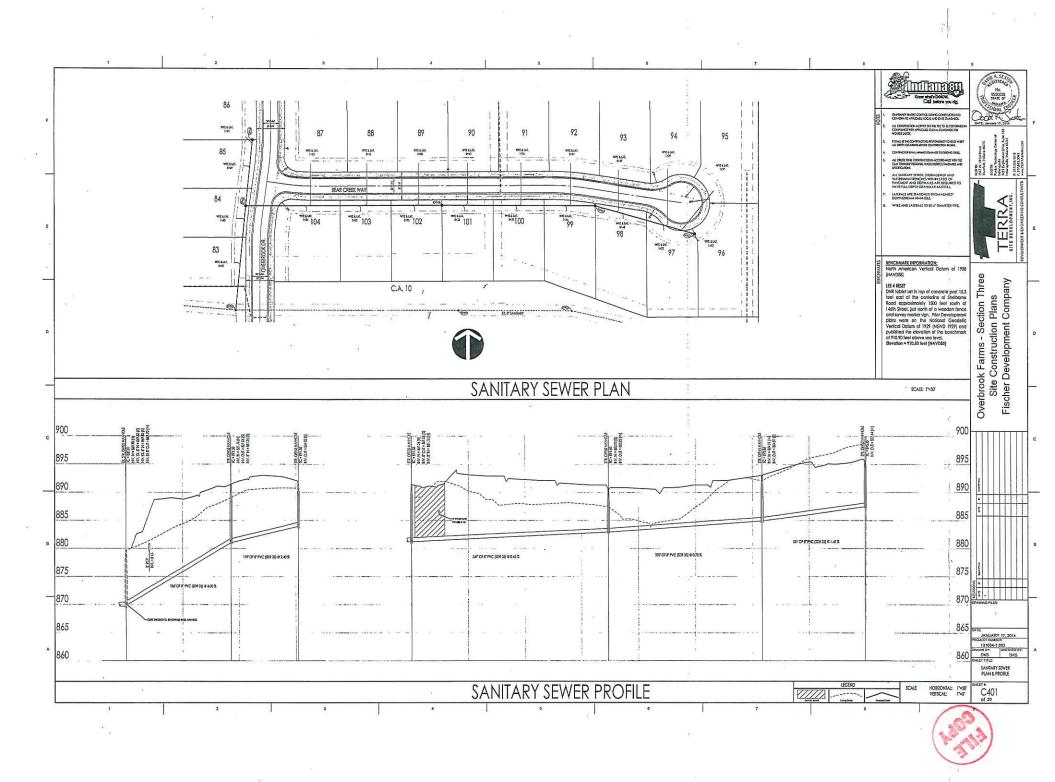


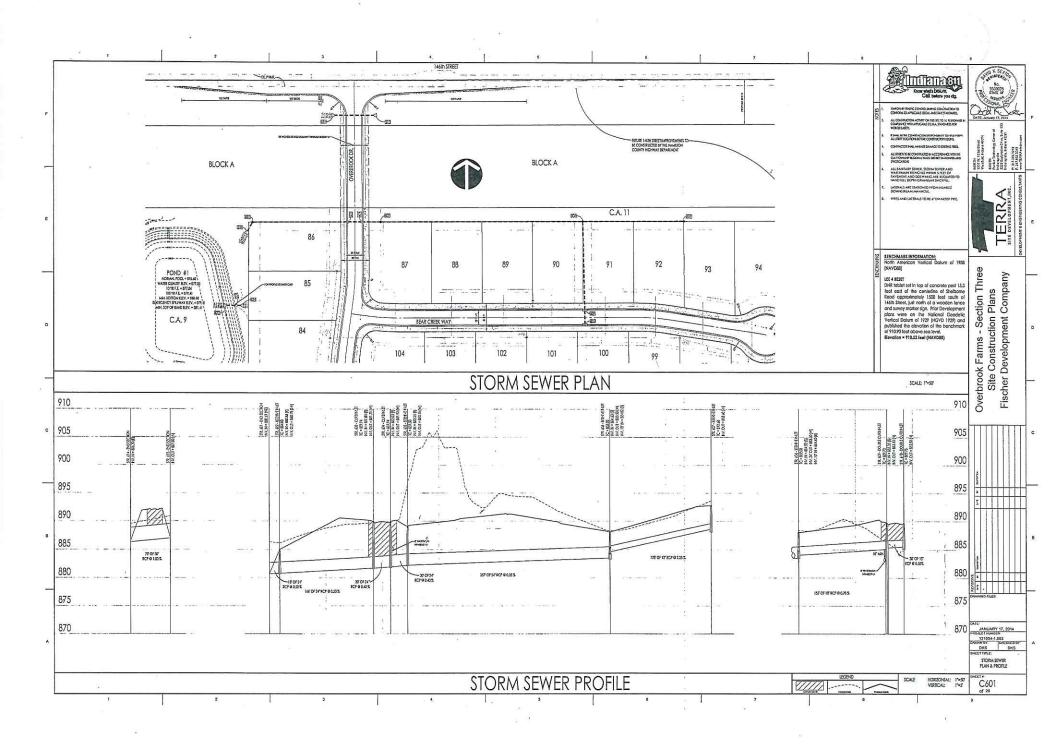


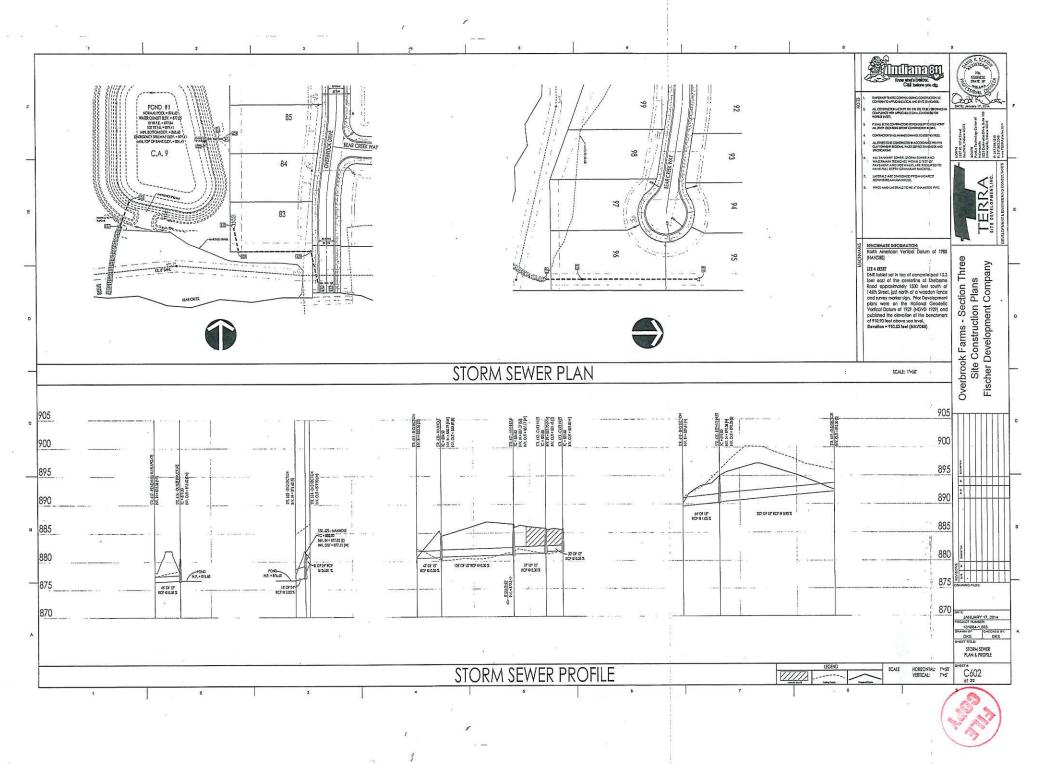


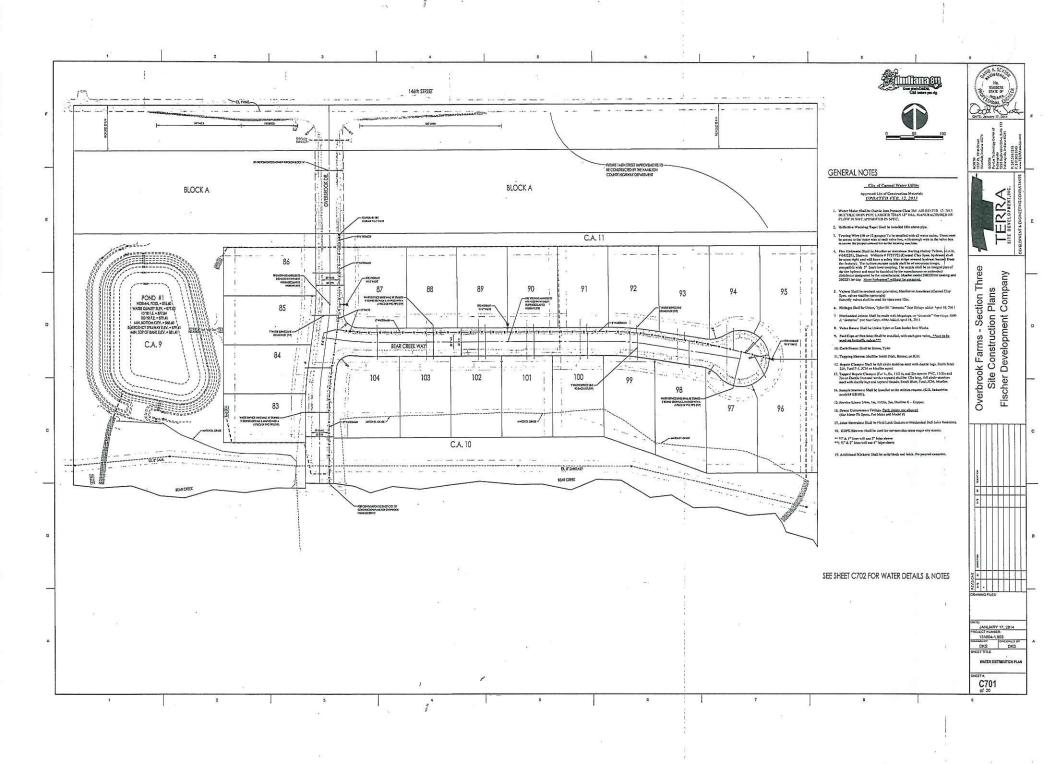


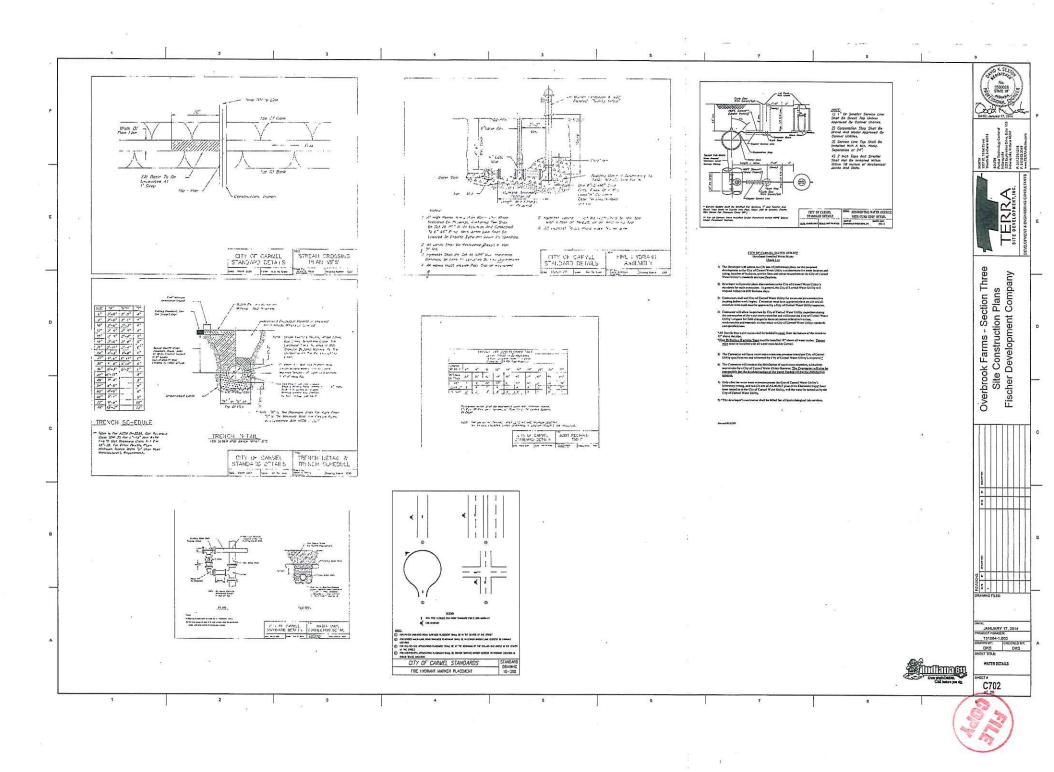


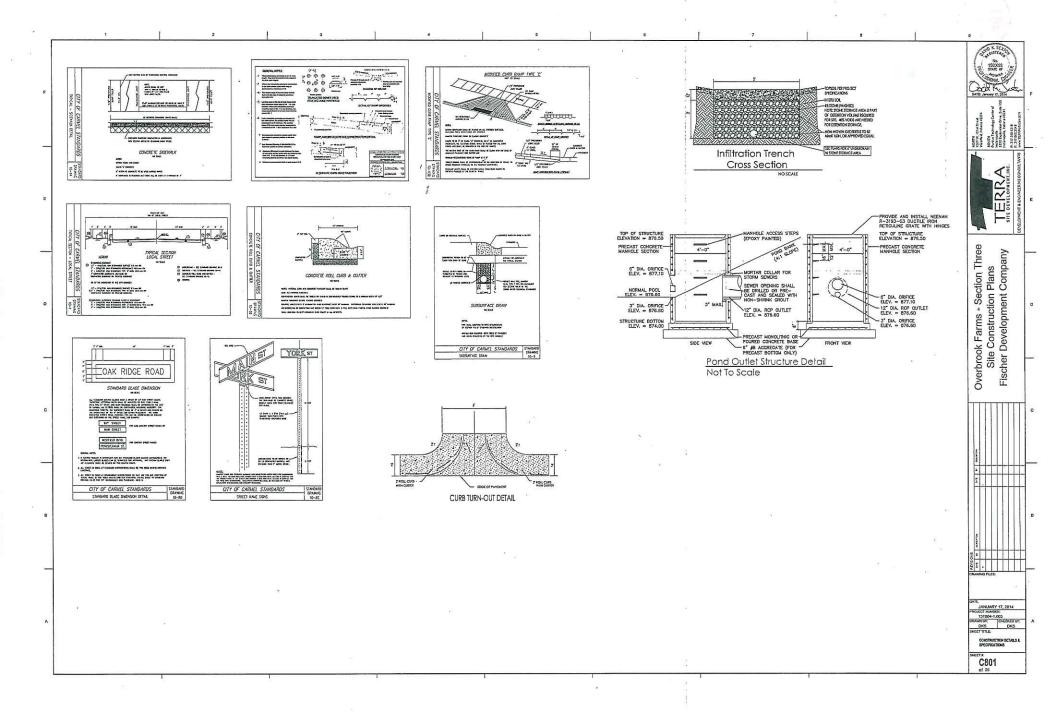


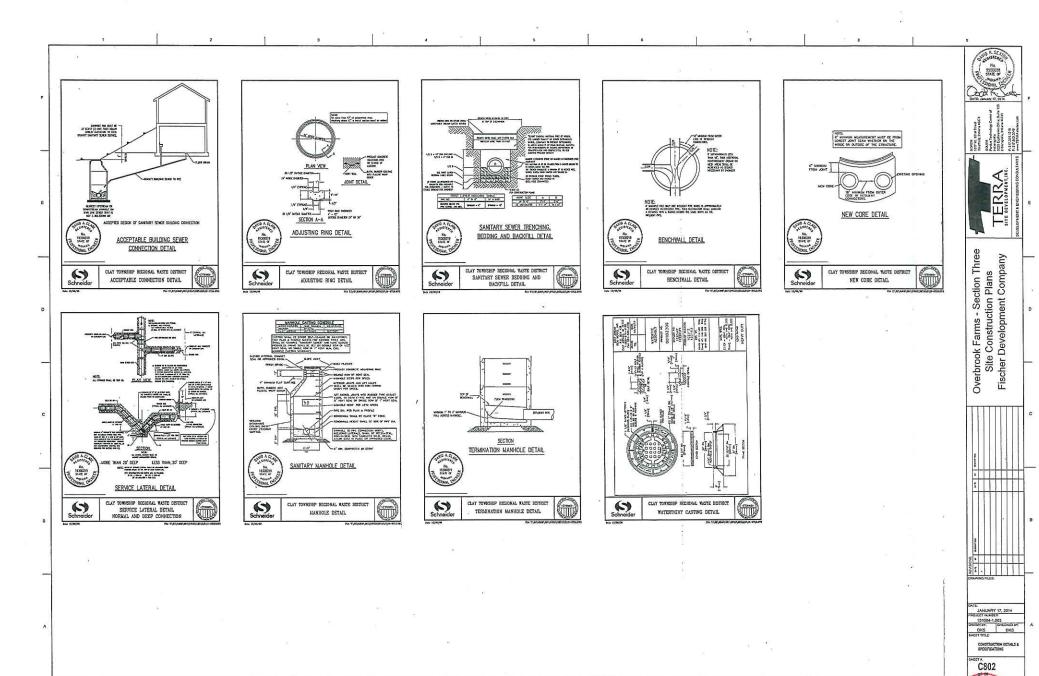


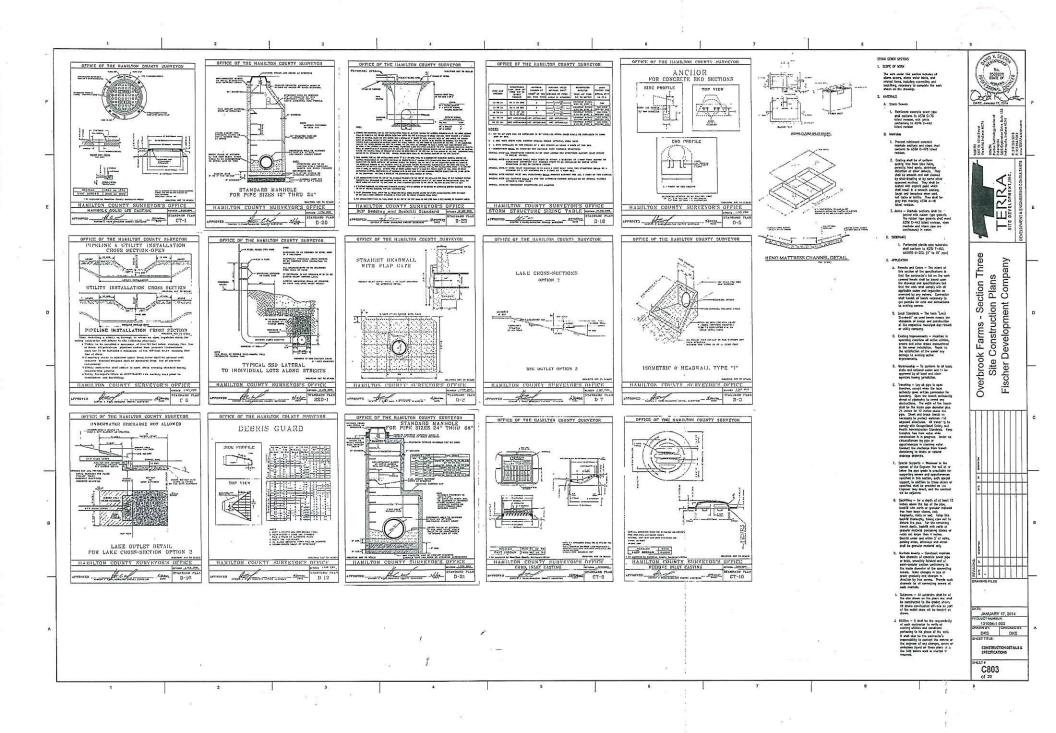












TYPICAL SANITARY SEWER SPECIFICATIONS TO BE USED FOR PRIVATE SEWER DEVELOPMENT CLAY TOWNSHIP REGIONAL WASTE DISTRICT

REVISED 3/1/2007

- Standard specifications of Clay Township Regional Waste District (the District) and Department of Transportation (INDOT) shall apply for all work and materials. Sunitary sewer pipe shall be installed in accordance with Section 715 of the current INDOT standard specifications has blook.
- Sanitary sower gravity pipe, unless pressure noted pipe required per IAC or directional drilled pipe, stell the Polyvinyl Claired (PVC) in accordance with a STATA D0304-49 vitaminism will discitute designation of SDR 33 and installed per ASTM D0321-49 specification. PVC pipe used that the grower's bell, rapigat end, and gesketed. The pipe shall be made of PVC plants having a cell classification of 1255461.
- PVC sanitary sever gravity littings shall also conform to the requirements of the ASTN 2003-49 specification. All findings shall be modeled in one piece with standard piec of the standard piece and the property of the prop
- All anthry metaboles delt by precure converte metaboles in secondonce with ASTM C472 and Section 230 of the current 1950°C specifications insulhout. C-drings shall centilism to C443. Double row of Kost Sain or or specifications insulhout. C-drings shall centilism to C443. Double row of Kost Sain or or specifications in the C445 of the C445 of Kost Sain C445 of Kost Sain
 - A. Installation and operation of vocuum equipment and indicating devices must be in accordance with manufacturers' recommendations and performance specifications which have been provided by the immediatest end accepted by the District Engineer. The vacuum equipment must be capable of sealing the entire nominole, including the exacting and river rings.

 - With the vacuum leuter set in place:
 1. Connect the vacuum pump to the outlet port with the valve open.
 2. Draw a vacuum of ten (10) inches of Hg. (5 psi) and close the valve.
 - Accepted standards for leakage will be established from the elapsed time for a negative pressure change from ten (10) inches to nine (9) inches of mercupy. The maximum allowable leakage rate for a four (4) foot diameter manhole must be in necordance with the following:

Minimum Elansed Time for at

Municiple Denth

Pressure Change of 1 Inch He

10 feet or less >10 feet but <15 feet >15 feet but <25 feet

For marticles five (5) feet in diameter, add an additional fifteen (15) seconds and for mapholes six (6) feet in diameter, add an additional thirty (30) seconds to the time requirements for four (4) foot diameter mantioles. For all mantioles deeper than twenty-five (25) feet, the Engineer will determine the applicable minimum elapsed

- D. If the manhole falls the test, necessary repairs must be made. The vacuum test and repairs must be repeated until the manhole passes the test.
- If manhole joint sealants are pulled out during the vacuum test, the manhole must be disassembled and the joint scalants replaced.
- Manholes will be subject to visual inspection with all visual teaks being regulared.
- Dutyl rubber conting with plastic wrup shall be applied around each manhole Joint from 3-inches above to 3-inches below each Joint. The appropriate primer shall be applied prior to applying the rubber conting. Incide Joints to be filled with precum July material. Entire exterior surface of sanitary sewer manholes shall be sprayed with a bluminous conting and all exterior gap exposure of riser rings shall be back plastered or grouted with nonshrink
- The numbole chinneys, including all riter rings shall be sealed using flex rib internal chinney scal manufactured by Creics, NPC, or a District approach equal. The flex rib internal chinney scal ishall exsent flores a midnimum of 3-riches below the tay of the consection to 3-inches row the membrale casting former or per amundatures; installation overculous if directed observiors. Internal Chinneys Seal shall be installed after manifele vacuum testing and prior to final acceptance. Water test may be done, per manufacturer o Districts recommendation, to provide assurance that internal chimney seal is water tight.
- The easting elevations are set by plan, however, the eastings are to be adjusted in the field by the District's representative should a discrepancy occur between plan grade and existing grude. New methole ringfely and owner shall be installed to establish grade, Maximum height of adjusting rings shall be 12-inch on existing structure adjustment and 10-inch muslems on use generated to.

- Buchfill around all installed or proposed membels stoccures, adevalles, bide paths and/or all paved areas shall be made with genuitar anterial fib-burnowler No. 8 stone, by 10 1-B-irobes oblevel crossaccions inchicores (which shall include "No. 32" mose edga). If nome stringent backfill requirements are set only per cley, town, commy, or Districts specifications there are annalorally shall be followed. Treach original within 5-feet of fire black of the case of the control or produced by the produced produced by the produced produced by the produced produced by the section of the control or produced produced by the produced produced produced by the produced produced produced produced by the produced produce
- The Contractor shall be responsible for verifying that all state highways, city, and county permits have been obtained by the developer prior to start of construction.
- Initial asbuilts shall be presented to the inspecting engineer prior to foul submittal to the Dilated for newbow, otherwise Commerce shall be required to family the developer's a location of the commerce of the commerce
- The ranitary sewer luterals and stuly termination shall be indicated on the surface with a detectable metal post set immediately above the said termination point if full connection is not immediately made.
- All stanitary sewer lines upon completion will be required to pass a low pressure air test. Said test shall be conducted accurding to ASTM F1417-92, and shall be witnessed by a District employee or the Districts representative. The testing shall be in accordance with Distance companyes on the Distance representative, the testing small be in accordance with Table 1 as follows with 0.5 pm being added for each font of water above the sower line being tested. Sewer lines shall be subject to visual lenk inspection at downstream mucholes with all visual lenks being repaired and subject to televising requests by the District.
- Prior to final de flection test (mundret test) all maialines shall be cleaned and free of any debris. Deflection tests shall be performed on all flexible* pipe after the final bacilit lists sheen in pines at least 10 days. No pipe adul socceal averated discession of yets deflection of 5% deflection test remits, (*The following nee considered non-flexible pipes concerne pipe, dottle iron pipe, and east 100 pipe). The felterion test shall be performed with a nine-point mandred. Proving rings shall be available at time of lest otherwise no lesting will be allowed. All numbred testing will be shallowed. All numbred testing shall be witnessed by a Dirtier category to Dirtier complete or the Distriers.
- The ends of all laterals are to be plugged water tight with a gasketed cap capable of withstanding a low pressure air test without leakage. Laterals shall be subject to visual leak inspection at downstream mutholes with all visual leaka being repaired
- Bedding for flexible pipe and rigid pipe shall be No. 8 crushed stone from 6-inches below to 12-inches above the pipe. Manholes shall be placed on no less than 6-inches of No. 8 crushed stone bedding.
- Water line, utility, and legal diain crossings and separations shall be in accordance with the more stringent of the two: 327 IAC 3-6-9 or the Districts standard drawings.
- The trench shall be opened sufficiently ahead of pipe laying to reveal obstruction, and shall be properly protected und/or barriented when left unattended.
- Mn_enter shall be permitted to flow into the anitary sewer system during construction. Contractor shall utilize a pump to keep the vater level below the pine. Pump delemps regulations (227 to 2.6-2.0), any pipe entering existing exverse shall be plugged with serves type nucleation), broaded plug until such time as all tests on the sewers and all punch fail testing are complete.
- All sewer internis installed shall be hedded the same as the main line sewer
- Forty-cight (48) hours notice shall be given to the District prior to the start of sewe ion. Also, 48 hours notice shall be given prior to doing any testing on the
- Manbole castines shall be stomped SANITARY SEWER (Neemb Castine Re1772 or East Jordon 19227.IGS) and be self-sealing type. The casting flange shall be 34 inches and the clear opening shall be min. 20-13/16 inches. Watertiph castings shall be boll-down East Jordon 1922.PTF and also stranged SANTEARY SEVER.
- 22. The minimum slope of the sewer shall be: Size of Pipe Minimum Constructed Slope

	Maria and Maria and Maria and Maria
8-inch	0.40%
10-inch	0.28%
12-inch	0.22%
15-inch	0.15%
18-incls	0.12%

- 23. The Contractor shall provide measurements of the alope of the sewer for each manhole section as construction progresses. Such measurements shall be certified by a Reginered Land Surveyor of Engineer and he available on-the for observation by the District's Inspector, No twore than three manhole sections can be constructed in advance of such
- Enterals are to be installed with a minimum 14 gauge tracer wire from the wye to the terminus. Upon Interal completion the contractor for the building or home will extend the wire from this terminus to the building eleanous adjacent to the building.

- - properties to or our large-structy stong the last CEANOUIS ARE TO RELECATED NO MORE THAN THREE FEET FROM THE FOLK GATON AND FOR GRANTFLATERILS NO MORE THAN 100 FEET APART SEARCH ARE CLASS OUR GROWN TISS I AND THE 3 IN
- nd reactions from 20 theil then make under soften PVC premium grade pipe in band anoming ECR 21 and ASTAI D2241, their impuresy primiting grow abid the internant and accepted by the Dakins and the Dakins's observed pages to

- Continuition, abottling, I commenced in the true matter benefit of the late of who and every procedural of the wine. After requision, concarry is in the process on lay.

TABLE

MINIMUM SPECIFIED TIME REQUIRED FOR A 1.0 psi

DROP FOR SIZE AND LENGTH OF PIPE INDICATED

Pipe Diameter In.	Minimum Time, mins	Length for Minimum Time, ft	Longer Longer Length, S	Specification Time for Length (L) Shown, mints							
	225 2000			100 n	150 R	200 N	250 R	300 ft	350 ft	400 R	450 R
4	3:46	597	0.380 L	3:46	3:46	3:46	3:46	3:46	3:46	3:46	3:46
6	5:40	398	0,854 L	5:40	5:40	5:40	5:40	5:40	5:40	5:42	6:24
×	7:34	298	1,520 L	7:34	7:34	7:34	7:34	7:36	8:52	10:08	11:24
10	9:26	239	2.374 L	9:26	9:26	9:26	9:53	11:52	13:51	15:49	17:4K
12	11:20	199	3.418 L	11:20	11:20	11:24	14:15	17:05	19:58	22:47	25:38
15	14:10	159	5.342 L	14:10	14:10	17:48	22:15	26:42	31:09	35:36	40:04
18	17:00	133	7.692 L	17:00	19:13	25:38	32:03	38:27	44:52	51:16	57:41
21	19:50	114	10,470 L	19:50	26:10	34:54	43:37	52:21	61:00	69:48	78:31
- 24	22:40	99	13.674 L	22:47	34:11	45:34	56:58	68:22	79:46	91:10	102:33
27	25:30	88	17,306 L	28:51	43:16	57:41	72:07	86:32	100:57	115:57	129:48
30	28:20	80	21,366 L	35:37	53:25	71:13	89:02	196:50	124:38	142:26	160:15
33	31:10	72	25.852 L	43:05	64:38	86:10	107:43	129;16	150:43	172:21	193:53
36	34:00	86	30.768 L	51:17	76:55	102:34	128:12	153:50	179:29	205:07	230:46







Plans Company Section . e Construction F Development C Overbrook F Site Co Fischer

JANUARY 17, 2014 131004-1.003 DRAWN BY: CHECKED BY DKS DKS DKS CET TITLE:

CONSTRUCTION DETAILS &

C902

Power of Attorney

WESTCHESTER FIRE INSURANCE COMPANY



Know all men by these presents: That WESTCHESTER FIRE INSURANCE COMPANY, a corporation of the Commonwealth of Pennsylvania pursuant to the following Resolution, adopted by the Board of Directors of the said Company on December 11, 2006, to wit:

**IESOLVED, that the following authorizations relate to the execution, for and on behalf of the Company, of bonds, undertakings, recognizances, contracts and other written commitments of the Company ontered into the ordinary course of business (each a "Written Commitment"):

- (1) Each of the Chalinian, the President and the Vice Presidents of the Company is hereby authorized to execute any Written Commitment for and on behalf of the Company, under the seal of the Company or otherwise.
- (2) Each duty appointed attorney-in-fact of the Company or otherwise, to the extent that such action is auditorized by the grant of powers provided for in such persons written appointment as such attorney-in-fact.
- (3) Each of the Chaliman, the President and the Vice Presidents of the Company is hereby authorized, for and on behalf of the Company, to appoint in writing any person the attorney-in-fact of the Company with full power and authority to execute, for and on behalf of the Company with company as may be specified in such written appointment; which specification may be by general type or class of Written Commitments or by specification of one or more particular Written Commitments.
- (4) Each of the Chairman, the President and Vice Presidents of the Company in hereby authorized, for and on behalf of the Company, to defegate in writing any other officer of the Company the authority to execute, for and on behalf of the Company, under the Company is seal or otherwise, such Written Commitments of the Company as are specified in such written delegation, which specification may be by general type or class of Written Commitments or by specification of one or more particular Written Commitments.
- (5) The signature of any officer or other person executing any Written Commitment of appointment or defegation pursuant to this Resolution, and the seal of the Company, may be affixed by facsimile on such Written Commitment or written appointment or defegation.

FURTHER RESOLVED, that the foregoing Resolution shall not be deemed to be an exclusive statement of the powers and authority of officers, employees and other persons to act for and on behalf of the Company, and such Resolution shall not limit or otherwise affect the exercise of any such power of authority otherwise validly granted or vested.

Does hereby nominate, constitute and appoint Dan E Ries, SUSAN A YEAZELL; all of the City of CINCINNATI, Ohio, each individually if there be more than one named, its true and lawful attorney-in-fact, to make, execute, seal and deliver on its behalf, and as its act and deed any and all bonds, undertakings, recognizances, contracts and other writings in the nature thereof in penalties not exceeding Two million dollars & zero cents (\$2,000,000.00) and the execution of such writings in pursuance of these presents shall be as binding upon said Company, as fully and amply as if they had been duly executed and acknowledged by the regularly elected officers of the Company at its principal office;

IN WITNESS WHEREOF, the said Stephen M. Haney, Vice-President, has hereunto subscribed his name and affixed the Corporate seal of the said WESTCHESTER FIRE INSURANCE COMPANY this 14 day of June 2013.

WESTCHESTER FIRE INSURANCE COMPANY

Stephen M. Hancy, Vice President



COMMONWEALTH OF PENNSYLVANIA COUNTY OF PHILADELPHIA ss.

On this 14 day of June, AD, 2013 before me, a Notary Public of the Commonwealth of Pennsylvania in and for the County of Philadelphia came Stephen M. Haney ,Vice-President of the WESTCHESTER FIRE INSURANCE COMPANY to me personally known to be the individual and officer who executed the preceding instrument, and he acknowledged that he executed the same, and that the seal affixed to the preceding instrument is the corporate seal of said Company; that the said corporate seal and his signature were duly affixed by the authority and direction of the said corporation, and that Resolution, adopted by the Board of Directors of said Company, referred to in the preceding instrument, is now in force.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at the City of Philadelphia the day and year first above written.



COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
KAREN E. BRANDT, Hotary Public
City of Philadelphia, Phila. County

July Band

I, the undersigned Assistant Secretary of the WESTCHESTER FIRE INSURANCE COMPANY, do hereby certify that the original POWER OF ATTORNEY, of which the foregoing is a substantially true and correct copy, is in full force and effect.

In witness whereof, I have hereunto subscribed my name as Assistant Secretary, and affixed the corporate seal of the Corporation, this

day of



William L. Kelly, Assistant Biscretary

THIS POWER OF ATTORNEY MAY NOT BE USED TO EXECUTE ANY BOND WITH AN INCEPTION DATE AFTER June 14, 2015

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD IN THE MATTER OF

Little Eagle Creek Drain, Overbrook Farms Section 3 Arm

NOTICE

То	Whom	Ιt	May	Concern	and:_	 		
					_			

Notice is hereby given of the hearing of the Hamilton County Drainage Board on the Little Eagle Creek Drain, Overbrook Farms Section 3 Arm on November 24, 2014 at 9:30 A.M. in Commissioners Court, Hamilton County Judicial Center, One Hamilton County Square, Noblesville, Indiana, and which construction and maintenance reports of the Surveyor and the Schedule of Assessments made by the Drainage Board have been filed and are available for public inspection in the office of the Hamilton County Surveyor.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD IN THE MATTER OF THE

Little Eagle Creek Drain, Overbrook Farms Section 3

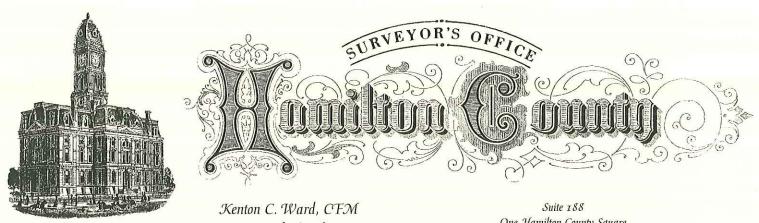
NOTICE

Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on November 24, 2014 has issued an order adopting the Schedule of Assessments, filed the same and made public announcement thereof at the hearing and ordered publication. If judicial review of the findings and order of the Board is not requested pursuant to Article Eight of this code within twenty (20) days from the date of this publication, the order shall be conclusive.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY



Surveyor of Hamilton County Thone (317) 776-8495 Fax (317) 776-9628

One Hamilton County Square Noblesville, Indiana 46060-2230

To: Hamilton County Drainage Board

July 7, 2015

Re: Little Eagle Creek Drain: Overbrook Farms Sec. 3 Arm

Attached are as-builts, certificate of completion & compliance, and other information for Overbrook Farms Section 3. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

During construction, changes were made to the drain, which will alter the plans submitted with my report for this drain-dated September 25, 2014. The report was approved by the Board at the hearing held November 24, 2014. (See Drainage Board Minutes Book 16, Pages 37-38) The changes are as follows: The 6" SSD was shortened from 3,473 to 3,253 feet. The 12" RCP was lengthened from 250 feet to 254 feet. The 15" RCP was shortened from 258 feet to 253 feet. The 18" RCP was shortened from 406 feet to 405 feet. The open ditch was lengthened from 505 feet to 515 feet. The length of the drain due to the changes described above is now 5305 feet.

The non-enforcement was approved by the Board at its meeting on November 24, 2014 and recorded under instrument #2014055483. The following sureties were guaranteed by Westchester Fire Insurance Company and will be released by the Board on its July 13, 2015 meeting.

Bond-LC No: K09018864 Amount: \$189,525.00 For: Storm Sewers & SSD Issue Date: July 9, 2014

I recommend the Board approve the drain's construction as complete and acceptable.

Sincerely.

Kenton C. Ward, CFM Hamiltøn County Surveyor

KCW/slm

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor
Re: Overbrook Farms Sec. 2 & 3
I hereby certify that:
1. I am a Registered Land Surveyor or Engineer in the State of Indiana.
2. I am familiar with the plans and specifications for the above referenced subdivision.
3. I have personally observed and supervised the completion of the drainage facilities for the above referenced subdivision.
4. The drainage facilities within the above referenced subdivision to the best of my knowledge, information and belief have been installed and completed in conformity with all plans and specifications.
 The drainage facilities within the above referenced subdivision to the best of my knowledge, information and belief have been correctly represented on the Record Drawings, Digital Record Drawings and the Structure Data Spreadsheet.
Signature:
Type or Print Name: JAMES D Hell
Business Address: 1367 W. 1615+ STREET
Westfield, IN 46074
Telephone Number: 317-399-1216
SEAL INDIANA REGISTRATION NUMBER NO. LS20500017
STATE OF / S

