



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

April 29, 2016

To: Hamilton County Drainage Board

Re: Little Eagle Creek Drain, Albany Place Section 1 Arm

Attached is a petition filed by Platinum Properties Management Company, LLC, along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the Albany Place Section 1 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	514 ft.	24" RCP	1,080 ft.
15" RCP	485 ft.	30" RCP	163 ft.
18" RCP	42 ft.	36" RCP	327 ft.
21" RCP	379 ft.	42" RCP	294 ft.
Swale	194 ft.	6' SSD	6,197 ft.

The total length of the drain will be 9,675 feet.

The 194 feet of swale listed above is from Str. 842 to Str. 800.

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:

<u>Curbline SSD in Streets:</u>

<u>Rear Yard SSDs:</u>

Ormond Avenue

Rear yard lot 1 from Str. 845 running east to riser

Millner Drive Percival Drive Dufton Court Rear yard lots 2 and 3 from Str. 845 to Str. 818
Rear yard lot 4 from Str. 818 to Str. 854
Rear yard lots 4 and 5 from Str. 854 running west to riser
Rear yard lots 6 and 7 from Str. 854 to Str. 819
Rear yard lots 8 and 9 from Str. 819 running north to riser
Rear yard lots 47 and 48 from Str. 824 running east to riser
Rear yard lots 49 from Str. 824 to Str. 840
Rear yard lots 49 to 51 from Str. 840 running west to riser
Rear yard lots 45 and 46 from Str. 824 to Str. 803
Rear yard lots 44 to 43 from Str. 803 running north to riser
Rear yard lots 37 and 38 from Str. 849 running south to riser
Rear yard lots 36 to 34 from Str. 849 running north to riser

The retention ponds (lake) located in Common Areas #4 of Section 2 is not to be considered part of the regulated drain. Pond maintenance assumed by the Drainage Board shall only include the inlets and outlet as part of the regulated drain. The maintenance of the retention ponds (lakes) 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.

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 \$2,101.80.

In accordance with IC 36-7-4-709, the petitioner did not submit surety for the proposed drain prior to construction commencing. If the petitioner/developer wants to submit final secondary plat for recording prior to the final inspection and approved as-built drawings, a bond will be required at that time.

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.

The off-site easement for the section 1 pipes that fall in future section 2 are on parcel 17-09-20-00-002.001, owned by James Thomas, and will be covered by the Albany Place Section 2 Plat in the future.

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 Albany Place Section 1 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for July 25, 2016.

Kenton C. Ward, CFM Hamilton County Surveyor

KCW/pll

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

roads as shown in the plans on file in the Surveyor's Office.

- (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.
- 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

Paul Riving	
Signed	Signed
Paul Rioux	
Printed Name	Printed Name
February 29, 2016	
Date	Date
Signed	Signed
Printed Name	Printed Name
Date	Date

Adobe PDF Fillable Form

FINDINGS AND ORDER

CONCERNING THE MAINTENANCE OF THE

Little Eagle Creek Drain, Albany Place Section 1 Arm

On this 25th day of July, 2016, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the Little Eagle Creek Drain, Albany Place Section 1 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

President

Member

Member

Executive Secretary

Albany Place Section 1

Engineers Estimate - Storm Sewers & Monumentation Prepared on: 4/21/2016

item		Unit		Init Cost	Quantities		Cost
Storm Drainage		Oint		;	Quantities		0031
_			_	1			
12" Pipe		LF	\$	26,25	484	\$	12,705
12" End Section		EΑ	\$	1,350.00	3	\$	4,050
12" Trash Guard	•	EA	\$	580.00	3	\$	1,740
15" Pipe		LF	\$	31.00	485	\$	15,035
15" End Section		EA	\$	1,450.00	1	\$	1,450
15" Trash Guard		EA	\$	625.00	1	\$	625
18" Pipe		LF	\$, 35.50	42	\$	1,491
18" End Section		EA	\$	1,600.00	1	\$	1,600
18" Trash Guard		EA	\$	800.00	1	\$	800
21" Pipe		LF	\$	41.00	379	\$	15,539
24º Pîpe		LF . –	\$. 47.00	1080		50,760
30" Pipe		LF	\$	59.00	163		9,617
36" Pipe		LF	\$	74.00	327		24,198
42" Pipe		LF	\$	107.00	294	\$	31,458
42" End Section		EΑ	\$	3,650.00	2	\$	7,300
42" Trash Guard		EΑ	\$	1,400.00	2	\$	2,800
Standard Storm Manholes		EΑ	\$	2,360.00	1	\$	2,360
Storm Inlets		EA	\$	3,200.00	24	\$	76,800
Sand Backfill and Bedding		TON	\$	14.50	250	•	3,625
	Sub-total			<i>'</i> ·		\$	263,953
Sub-surface Drains - under curb		LF	\$	_দ ্ম 10.50	4,224	\$	44,352
Sub-surface Drains - swales		LF	\$	ক ্ষ্ণু 10.50	2,650	\$	27,825
		EA	-	,	2,000	\$	
Sub-surface Drains - sump laterals		EA	\$	199.00	21	•	5,373
	Sub-total			1, "		\$	77,550
	Total					\$	341,503
Monuments & Markers							
Lot Corner Monuments		LOT	\$	100.00	27	\$	2,700
Street Centerline Monumentation		EA	\$	170.00	5	\$	850
Street Certenine Worldmentation	Total	LA	Ψ	. 170.00	3	φ \$	
	Iotai			• .,		Þ	3,550
Erosion Control		LS		NA	NA	NA	
> Not Applicable - Property annexed	by City of Car	mel and c	overn	ied, .			
	Not Applicable - Property annexed by City of Carmel and governed by Carmel MS4 permit.						
	Total			:		\$	-
0-	and Total			· ·		\$	245.052
Gr	and Iotai			1, •		Ф	345,053
				, J. v.			
				1	1 - 1		

Timothy J. Walter, P.E. Indiana Registration No. 19900152

This copy printed from Digital Archive of the Hamilton County Surveyor's Office; One Hamilton Co. Square, Ste., Noblesville, In 46060

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD IN THE MATTER OF

Little Eagle Creek Drain, Albany Place Section 1 Arm

NOTICE

To Whom It May Concern and:
Notice is hereby given of the hearing of the Hamilton County Drainage Board on the Little Eagle Creek Drain, Albany Place Section 1 Arm on July 25, 2016 at 9:15 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, Albany Place Section 1 Arm

NOTICE

Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on July 25, 2016 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



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

To: Hamilton County Drainage Board

August 8, 2017

Re: Little Eagle Creek Drain: Albany Place Sec. 1

Attached are as-built, certificate of completion & compliance, and other information for Albany Place Sec. 1. 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 April 29, 2016. The report was approved by the Board at the hearing held July 25, 2016. (See Drainage Board Minutes Book 17, Pages 41-44) The changes are as follows: structures 845 to 818 will be installed with section 2. The 12" RCP was shortened from 514 feet to 334 feet due to the deletion of this section of pipe. The 15" RCP was shortened from 485 feet to 463 feet. The 18" RCP was shortened from 42 feet to 41 feet. The 24" RCP was shortened from 1,080 feet to 1,076 feet. The 30" RCP was lengthened from 163 feet to 165 feet. The 36" RCP was divided into 124 feet of 36" and 204 feet of 33" RCP. The 42" RCP was shortened from 294 feet to 288 feet. The 6" SSD was lengthened from 6,197 to 6,205 feet. The swale was lengthened from 194 feet to 205 feet. The length of the drain due to the changes described above is now **9,484 feet**.

The non-enforcement was approved by the Board at its meeting on July 25, 2016 and recorded under instrument #2016060742. Also, in accordance with IC 36-7-4-709 the petitioner did not submit sureties.

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

Sincerely.

Kenton C. Ward, CFM

Hamilton County Surveyor

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Albany Place, Section 1

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.
- 5. 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:		D	ate: October 12, 2016
Type or Print Name:	Dennis D. Olmste	ad	
	Stoeppelwerth & /		Inc.
			ers, Indiana 46038
Telephone Number:	(317) 570-4700		
SEAL HILL	COLSTER TO THE	INDIANA F	REGISTRATION NUMBER
7	No. 818	300012	

146th STREET OVER 141st STREET LOCATION MAP

TOWN OF Westfield (Battestericial Justification) 180083 TOWN OF WESTFIELD ETJ LIMITS CITY OF CARMEL ETJ LIMITS CITY OF CARMEL ETJ LIMITS SITTE ### HORD INCREMENT RECLAM FIRM ROOD INCREMENT REPORTAN AND INCREMENT RATE MAP ROOD INCREMENT AREA ### HORD INCREMENT AREA

SCALE: 1"=1000'

FLOOD STATEMENT
This is to certify that NO portion of the property is located within a Special Flood Hazard Area (Zone AE) as said property plots by scale on Community Panel No. 18057C 0205F of the Flood Insurance Rate Maps dated February 19, 2003

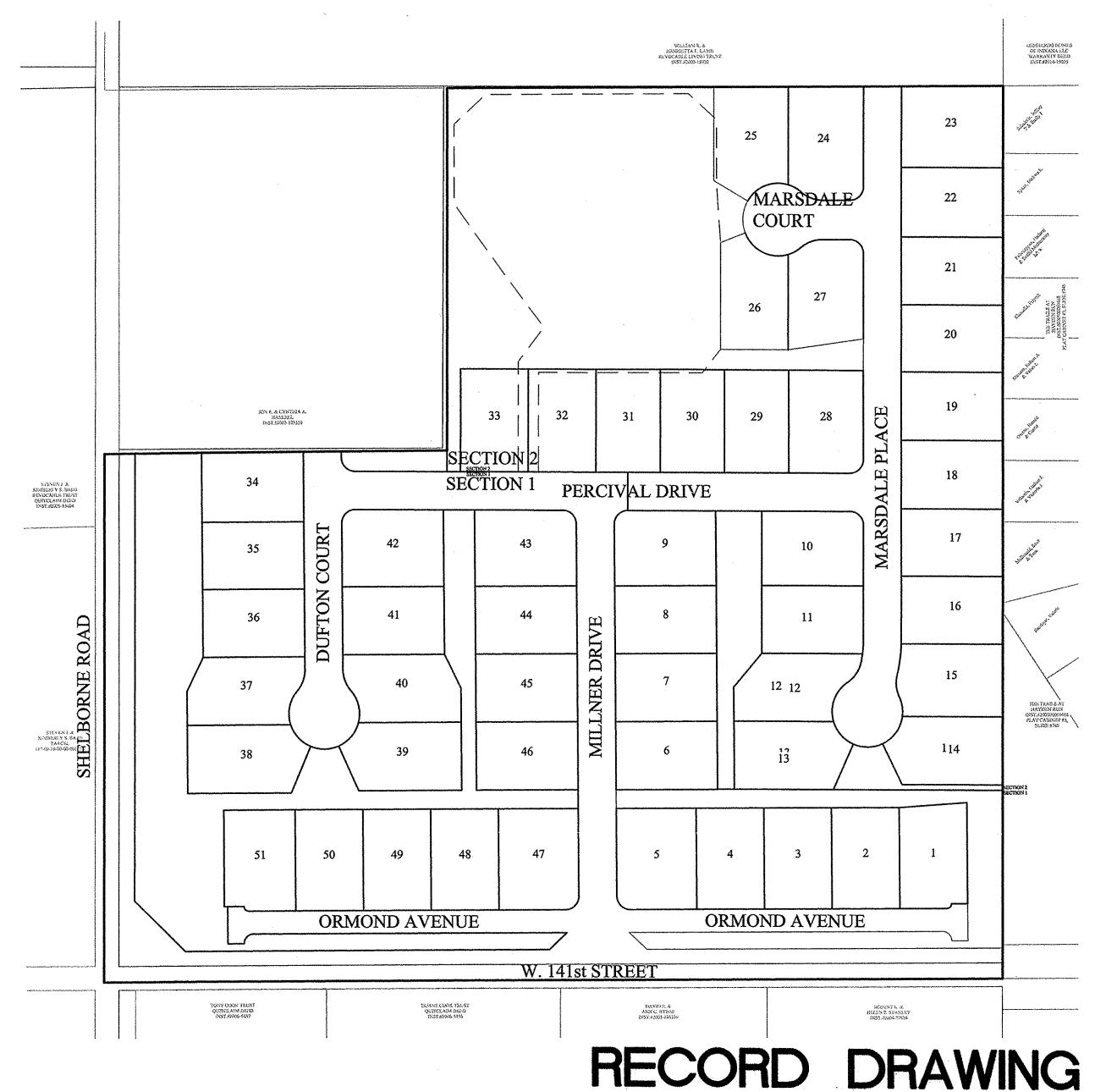
INDEX					
SHT.	DESCRIPTION				
C001	COVER SHEET				
C100-C101	TOPOGRAPHICAL SURVEY				
C200-C201	SITE DEVELOPMENT PLAN				
C300-C307	INITIAL STORM WATER POLLUTION & PREVENTION PLAN TEMPORARY STORM WATER POLLUTION & PREVENTION PLAN PERMANENT SEDIMENT & EROSION CONTROL PLAN STORM WATER POLLUTION & PREVENTION SPECIFICATIONS STORM WATER POLLUTION & PREVENTION DETAILS				
C400-C413	STREET PLAN & PROFILES INTERSECTION DETAILS ENTRANCE PLAN STRIPING PLAN MAINTENANCE OF TRAFFIC PLAN TRAFFIC CONTROL PLAN PAVING AND CONCRETE CURB POLICES				
C500-C503	SANITARY SEWER PLAN & PROFILE				
C600-C607	STORM SEWER PLAN & PROFILES SUB-SURFACE DRAIN PLAN				
C700-C701	WATER PLAN				
C800-C803	CONSTRUCTION DETAILS SANITARY STORM STREET				

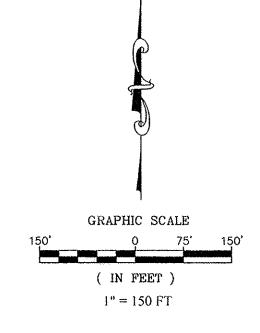
REVISIONS				
SHT.	DESCRIPTION			
ALL	REVISED PLANS PER REVIEW COMMENT LETTERS - 01/19/16 - JSM			
ALL	REVISED PLANS PER REVIEW COMMENT LETTERS - 02/26/16 - JSM			
ALL	FINAL PLANS - 03/15/16 - JSM	***************************************		
C500, C501, C600-C603, C700-C701	ASBUILTS - 10/06/16 - ADG			

ALBANY PLACE

SECTIONS 1 and 2 PLANNED URBAN DEVELOPMENT ZONING

Owner & Developed by:
Drees Premier Homes, Inc.
900 East 96th Street, Suite 100
Indianapolis, Indiana 46240
Contact: Ty Rinehart
(317) 710-1021
TRinehart@dreeshomes.com





OPERATOR ON N.O.I. LETTER:

Drees Premier Homes, Inc.
900 East 96th Street, Suite 100
Indianapolis, Indiana 46240
Contact: Ty Rinehart
(317) 710-1021
TRinehart@dreeshomes.com

OPERATING AUTHORITY
CITY OF CARMEL (317) 5

CITY OF CARMEL (317) 571-2441 ONE CIVIC SQUARE CARMEL, INDIANA 46032

BUILDING SETBACKS

MIN. FRONT BUILDING LINE | 25'

SIDE YARD/AGGREGATE | 5' MIN./20' AGGREGATE

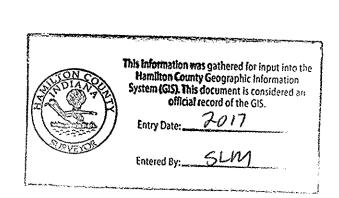
REAR YARD | 20'

TOTAL LAND DISTRURBANCE

SECTION 1 16.6 ACRES

SECTION 2 11.9 ACRES

TOTAL - 28.5 ACRES



LEGAL:

ALBANY PLACE

I, the undersigned Registered Land Surveyor hereby certify that the included plat correctly represents a subdivision of part of the Southwest Quarter of the Northwest Quarter of Section 20, Township 18 North, Range 3 East, Hamilton County, Indiana, more particularly described as follows:

Beginning at the Southwest corner of said Quarter Quarter Section; thence North 00 degrees 05 minutes 21 seconds East 780.50 feet; thence North 89 degrees 23 minutes 30 seconds East 505.02 feet; thence North 00 degrees 05 minutes 21 seconds East 532.00 feet; thence North 89 degrees 36 minutes 39 seconds East 820.67 feet; thence South 00 degrees 03 minutes 54 seconds West 1,314.94 feet; thence South 89 degrees 37 minutes 59 seconds West 1,326.23 feet to the place of beginning, containing 33.839 acres, more or less, subject to all legal highways, rights-of-ways, easements, and restrictions of record.

UTILITY CONTACTS:

Clay Township Regional Waste District 10701 North College Avenue, Suite A Indianapolis, IN 46280-1098

Carmel Water Utilities 3450 West 131st Street Westfield, IN 46074

"Section One Only"

Dennis D. Olmstead

Registered Land Surveyor

10/11/2016

No.

900012

STATE OF

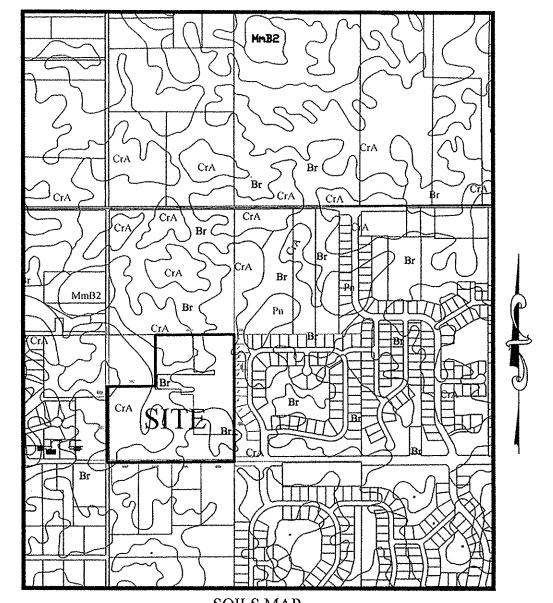
AT & T 5858 North College Avenue Indianapolis, Indiana 46220

Brighthouse Networks 3030 Roosevelt Avenue Indianapolis, Indiana 46218 Duke Energy 16475 Southpark Drive

Westfield, Indiana 46074

Indianapolis Power & Light Company 3600 North Arlington Avenue Indianapolis, Indiana 46218

Vectren Energy 16000 Allisonville Road Noblesville, Indiana 46060



SOILS MAP SCALE: 1"1000'

Map Unit: Br - Brookston silty clay loam

Br--Brookston silty clay loam
This poorly drained soil has a seasonal high watertable above the surface or within 1.0 ft. and is in depressions. Slopes are 0 to 2 percent. The native vegetation is water tolerant grasses and hardwoods. The surface layer is silty clay loam and has moderate or high organic matter content (2.0 to 5.0 percent). Permeability is moderately slow (0.2 to 0.6 in/hr) in the most restrictive layer above 60 inches. Available water capacity is high (10.0 inches in the upper 60 inches). The pH of the surface layer in non-limed areas is 6.1 to 7.3. This soil is hydric. Wetness is a management concern for crop production. This soil responds well to tile

Map Unit: CrA - Crosby silt loam, 0 to 2 percent slopes

CrA--Crosby silt loam, 0 to 2 percent slopes
This is a somewhat poorly drained soil and has a seasonal high watertable at 0.5 to 2.0 ft. and is on rises on uplands. Slopes are 0 to 2 percent. The native vegetation is hardwoods. The surface layer is silt loam and has moderately low or moderate organic matter content (1.0 to 3.0 percent). Permeability is very slow (< 0.06 in/hr) in the most restrictive layer above 60 inches. Available water capacity is moderate (6.2 inches in the upper 60 inches). The pH of the surface layer in non-limed areas is 5.1 to 6.0. Droughtiness and wetness are management concerns for crop production. This soil responds well to tile drainage.

Pn - Patton silty clay loam

TOTAL

In a typical profile the surface layer is very dark gray and black silty clay loam about 12 inches thick. The subsoil is dark gray, olive gray and light olive gray, mottled, firm silty clay loam about 26 inches thick. The substratum, to a depth of 60 inches, is calcareous and is olive gray and gray silt loam and light silty clay loam. In some areas, the surface layer is less than 12 inches thick or the substratum is stratified loamy material. In some areas calcareous loam till is at a depth of less than 60 inches and part of the subsoil below a depth of 40 inches formed in glacial till. Many areas that are surrounded by eroded soils have an overwash of light colored soil material on the original surface layer.

DESIGN DATA 51 LOTS 33.839 AC. = 1.51 LOTS/ACRE ORMOND AVENUE 1,092.00 L.F. MILLNER DRIVE 722.02 L.F. PERCIVAL DRIVE 826.41 L.F. **DUFTON COURT** 330.04 L.F. MARSDALE PLACE 916.66 L.F. MARSDALE COURT 153.86 L.F.

DESIGN SPEED LIMIT: 25 M.P.H

4,040.99 L.F.

PLANS PREPARED BY:

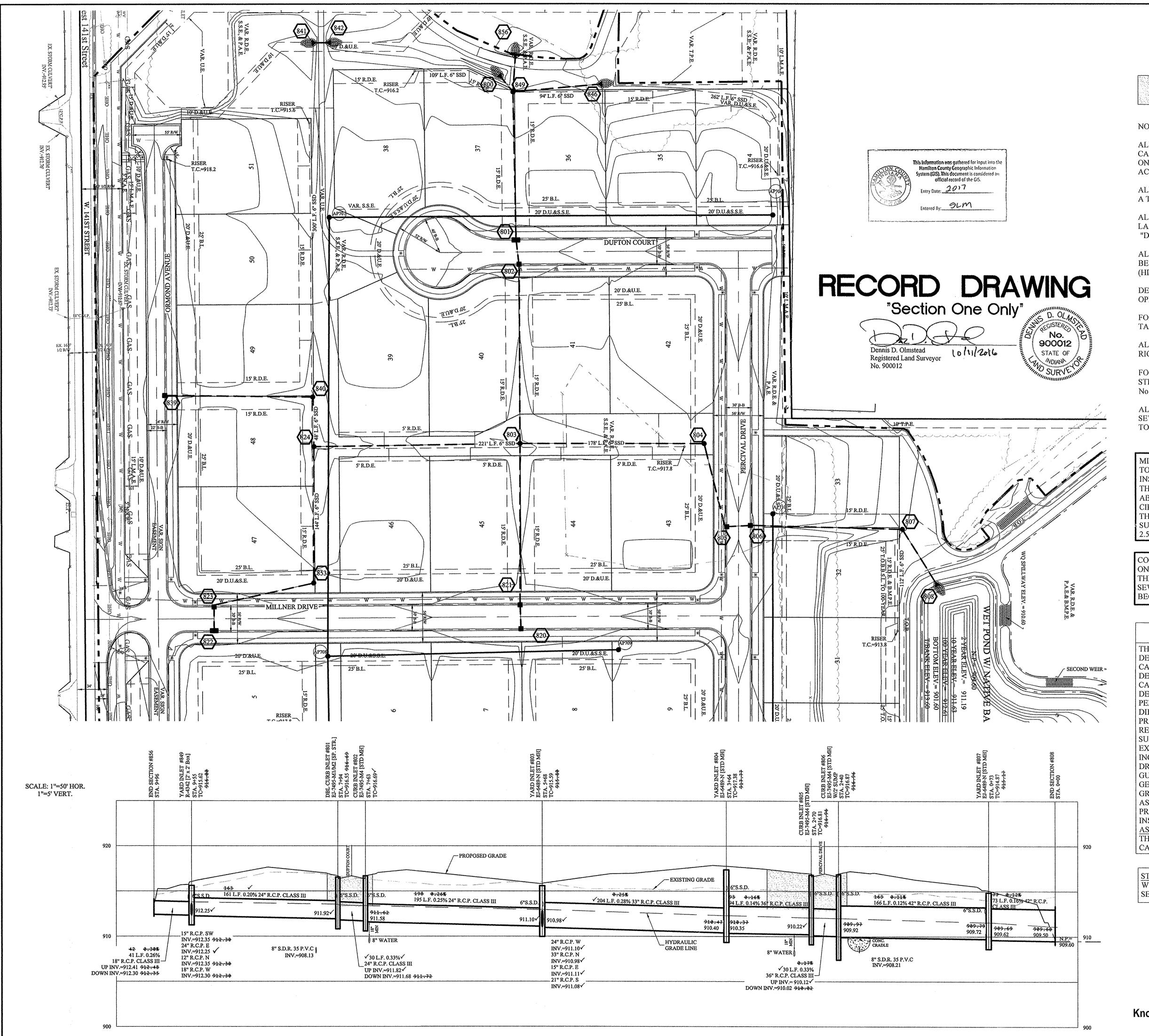
STOEPPELWERTH & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
7965 E. 106TH STREET, FISHERS, INDIANA 46038
PHONE: (317)-849-5935
FAX: (317)-849-5942
CONTACT PERSON: BRETT A. HUFF
EMAIL: BHUFF@STOEPPELWERTH.COM

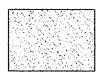
PLANS CERTIFIED BY:

David J. Stoeppelwerth

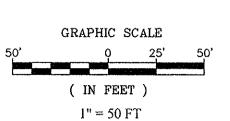
DAVID J. STOEPPELWERTH
PROFESSIONAL ENGINEER
NO. 19358







DENOTES FULL DEPTH **GRANULAR BACKFILL** SEE RCP TRENCH **DETAIL SHEET C802**



NOTES:

ALL STORM STRUCTURES TO RECEIVE SOLID LID CASTINGS ARE TO BE CONSTRUCTED TO PROVIDE ONE 4" RISER RING NO MORE, NO LESS TO ACHIEVE PLAN RIM GRADE.

ALL YARD INLETS ARE TO BE CONSTRUCTED AT A TOLERANCE OF +0.00' TO -0.20' OF PLAN GRADE.

ALL STORM SEWER CASTINGS SHALL BE LABELED

"DUMP NO WASTE-DRAINS TO WATERWAY" ALL SSD'S (SUBSURFACE DRAINS) WILL NEED TO

BE DOUBLE WALL SMOOTH BORE PERFORATED (HDPE) PIPE.

DEBRIS GUARDS ARE TO BE INSTALLED ON ALL OPEN ENDED INLETS.

FOR STORM STRUCTURE SIZING AND CASTING TABLE SEE DETAIL D-18 ON SHEET C801.

ALL STORM SEWERS WITHIN PUBLIC RIGHT-OF-WAY SHALL BE RCP CLASS III.

FOR INSTALLATION OF STORM UNDER CITY STREETS AND COVER REQUIREMENTS, SEE SHEET No. C801 ON THE TRENCH DETAIL.

ALL TOP OF CASTING ELEVATIONS FOR STORM SEWERS SHALL BE CONSTRUCTED WITH A TOLERANCE OF 0.10 FT.±

MINIMUM COVER FOR PIPE: THE MINIMUM COVER FROM THE TOP OF THE INSTALLED PAVEMENT TO THE TOP OF THE INSTALLED PIPE SHALL BE THE PAVEMENT SECTION, THICKNESS (ALL BITUMINOUS AND AGGREGATE MATERIAL ABOVE THE SUBGRADE) PLUS 1'-0", BUT UNDER NO CIRCUMSTANCES SHALL THE COVER ALONG ANY PART OF THE PIPE FROM THE FINAL PAVEMENT OR FINAL GROUND SURFACE ELEVATION TO THE TOP OF THE PIPE BE LESS THAN 2.5 FEET.

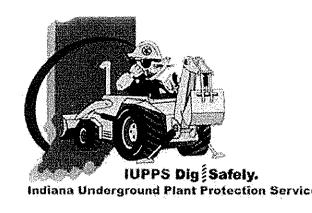
CONTRACTOR SHALL VERIFY DEPTHS OF ALL EXISTING ONSITE UTILITIES PRIOR TO CONSTRUCTION TO CONFIRM THERE IS NOT ANY CONFLICTS WITH OTHER UTILITIES, STORM SEWERS OR STREETS. CONFLICTS AFTER CONSTRUCTION BEGINS ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.

STORM SEWER NOTE

THE STORM SEWER SYSTEM SHALL BE CONSTRUCTED PER DESIGN SPECIFIED AND AS APPROVED BY THE CITY OF CARMEL ON THE FINAL APPROVED CONSTRUCTION PLANS. DESIGN SPECIFIED AND AS APPROVED BY THE CITY OF CARMEL ON THE FINAL APPROVED CONSTRUCTION PLANS. DEVIATIONS FROM THE APPROVED DESIGN SHALL ONLY BE PERMITTED DUE TO SPECIAL CIRCUMSTANCES OR DIFFICULTY DURING CONSTRUCTION AND WILL REQUIRE PRIOR FIELD APPROVAL FROM A DESIGNATED REPRESENTATIVE OF THE CITY OR CARMEL IN ADDITION TO SUPPLEMENTAL APPROVAL BY THE DESIGN ENGINEER. AN EXPLANATION OF ANY SUCH DEVIATION SHALL BE INCLUDED AS A REQUIREMENT ON AS-BUILT/RECORD DRAWINGS SUBMITTED FOR RELEASE OF PERFORMANCE GUARANTEES. APPROVED DESIGN SLOPES IDENTIFIED AS GENERATING VELOCITIES OF 2.5 FPS OR LESS AND 10 FPS OR GREATER (AT FULL FLOW CAPACITY) SHALL REQUIRE AS-BUILT CERTIFICATION AT THE TIME OF CONSTRUCTION, PRIOR TO BACKFILLING THE PIPE. THE CONTRACTOR IS INSTRUCTED TO AS-BUILT EACH SECTION OF STORM PIPE AS IT IS BEING INSTALLED TO ENSURE COMPLIANCE WITH THE DESIGN PLANS. AND AS APPROVED BY THE CITY OF CARMEL.

STORM SYSTEM WITH THE EXCEPTION OF REAR YARD SSDs, STORM SEWERS FOR THIS DEVELOPMENT WILL BE PUBLIC.





No. 19358 STATE OF MOIANA.

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PI ALB,

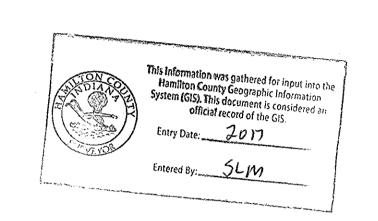
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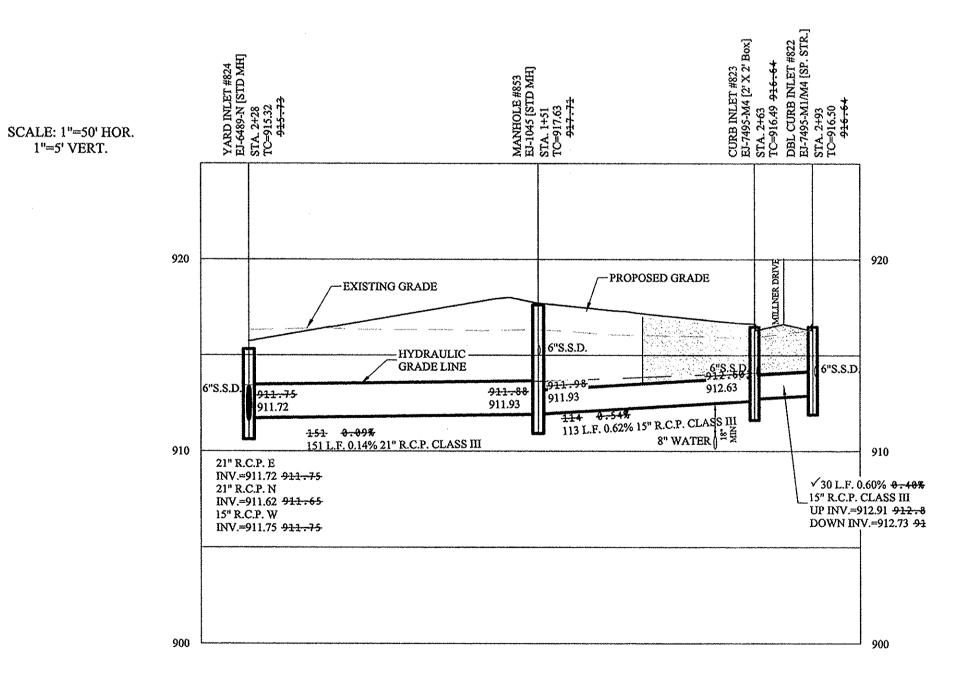
ADG BAH

44855DRE

RENDWGNC600 Storm Se , 2016 3:43:32 PM / aguy , 2016 9:24:22 AM / Andi



-- PROPOSED GRADE -EXISTING GRADE 161-L.F. 0.48% 12" R.C.P. CLASS IIŁ"S.S.D. ≬ 5 L.F. 0.24% 15" 228 L.F. 0.24% 21" R.C.P. CLASS III R.C.P. CLASS DX 6 HYDRAULIC GRADE LINE 21" R.C.P. E INV.=911.72 911.72 24" R.C.P. W 21" R.C.P. N INV.=911.10√ INV.=911.62 911.65 33" R.C.P. N 15" R.C.P. W INV.=910.98√ INV.=911.75 911.72 15" R.C.P. B 8" S.D.R. 35 P.V.C INV.=911.11√ INV.=905.97 _21" R.C.P. S INV.=911.08√

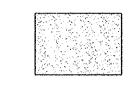


1"=5' VERT.

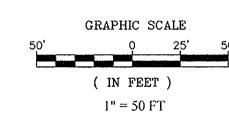
RECORD DRAWING

"Section One Only"

"Secti 900012 STATE OF Registered Land Surveyor No. 900012 NO SURVE



DENOTES FULL DEPTH **GRANULAR BACKFILL** SEE RCP TRENCH



ALL STORM STRUCTURES TO RECEIVE SOLID LID CASTINGS ARE TO BE CONSTRUCTED TO PROVIDE

ALL YARD INLETS ARE TO BE CONSTRUCTED AT A TOLERANCE OF +0.00' TO -0.20' OF PLAN GRADE.

ALL STORM SEWER CASTINGS SHALL BE

ALL SSD'S (SUBSURFACE DRAINS) WILL NEED TO BE DOUBLE WALL SMOOTH BORE PERFORATED (HDPE) PIPE.

DEBRIS GUARDS ARE TO BE INSTALLED ON ALL OPEN ENDED INLETS.

FOR STORM STRUCTURE SIZING AND CASTING TABLE SEE DETAIL D-18 ON SHEET C801.

ALL STORM SEWERS WITHIN PUBLIC RIGHT-OF-WAY SHALL BE RCP CLASS III

FOR INSTALLATION OF STORM UNDER CITY STREETS AND COVER REQUIREMENTS, SEE SHEET No. C801 ON THE TRENCH DETAIL

ALL TOP OF CASTING ELEVATIONS FOR STORM SEWERS SHALL BE CONSTRUCTED WITH A TOLERANCE OF 0.10 FT.±

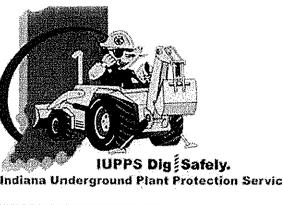
MINIMUM COVER FOR PIPE: THE MINIMUM COVER FROM THE TOP OF THE INSTALLED PAVEMENT TO THE TOP OF THE INSTALLED PIPE SHALL BE THE PAVEMENT SECTION. THICKNESS (ALL BITUMINOUS AND AGGREGATE MATERIAL ABOVE THE SUBGRADE) PLUS 1'-0", BUT UNDER NO CIRCUMSTANCES SHALL THE COVER ALONG ANY PART OF THE PIPE FROM THE FINAL PAVEMENT OR FINAL GROUND SURFACE ELEVATION TO THE TOP OF THE PIPE BE LESS THAN 2.5 FEET.

CONTRACTOR SHALL VERIFY DEPTHS OF ALL EXISTING ONSITE UTILITIES PRIOR TO CONSTRUCTION TO CONFIRM THERE IS NOT ANY CONFLICTS WITH OTHER UTILITIES, STORM SEWERS OR STREETS. CONFLICTS AFTER CONSTRUCTION BEGINS ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.

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STORM SYSTEM WITH THE EXCEPTION OF REAR YARD SSDs, STORM SEWERS FOR THIS DEVELOPMENT WILL BE PUBLIC.





DETAIL SHEET C802

NOTES:

ONE 4" RISER RING NO MORE, NO LESS TO ACHIEVE PLAN RIM GRADE.

LABELED "DUMP NO WASTE-DRAINS TO WATERWAY"

STORM SEWER NOTE

CARMEL.

S:\44885DRE\DWG\C600 Storm Se October 10, 2016 3:43:32 PM / agu) October 12, 2016 9:24:37 AM / And

SCALE: 1"=50' HOR.

1"=5' VERT.

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STATE OF . MOIANA.

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SEWER

STORM

DRAWN BY: ADG

ALB,

INV.=911.82

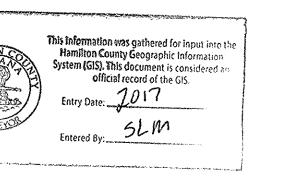
DOWN INV.=913.11

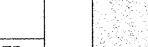
T 8" S.D.R. 35 P.V.C

STORM SEWER NOTE

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STORM SYSTEM WITH THE EXCEPTION OF REAR YARD SSDs, STORM





DENOTES FULL DEPTH **GRANULAR BACKFILL** SEE RCP TRENCH DETAIL SHEET C802

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FOR STORM STRUCTURE SIZING AND CASTING TABLE SEE DETAIL D-18 ON SHEET C801.

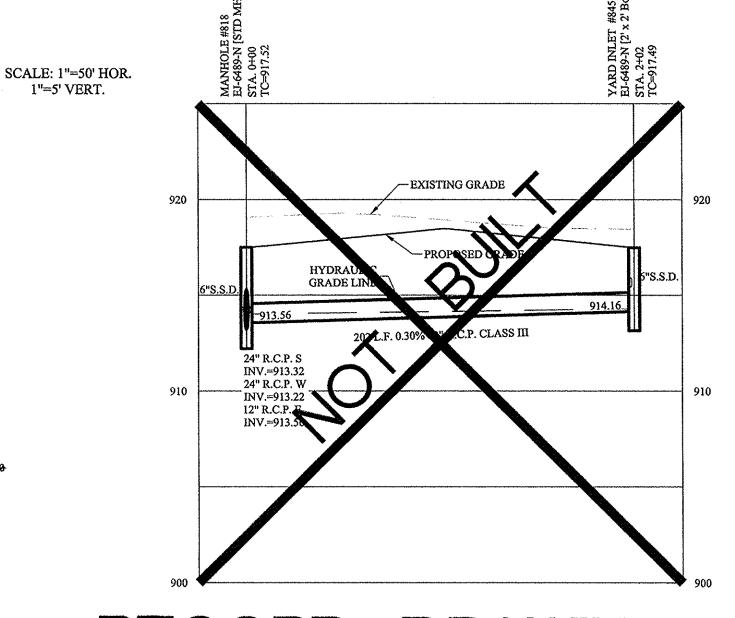
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FOR INSTALLATION OF STORM UNDER CITY STREETS AND COVER REQUIREMENTS, SEE SHEET No. C801 ON THE TRENCH DETAIL.

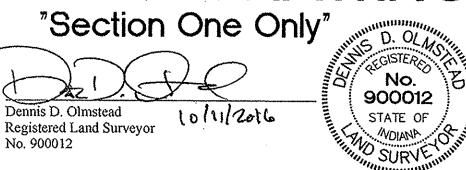
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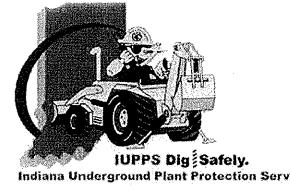
RECORD DRAWING





Know what's **below**.

Call before you dig.



S:\44885DRE\DWG\C600 Storm Sew October 10, 2016 3:43:32 PM / aguyo October 12, 2016 9:24:56 AM / Andre

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24" R.C.P. W

INV.=911.10√

INV.=910.98

INV.=911.11√ 21" R.C.P. S INV.=911.08

33" R.C.P. N

15" R.C.P. E

√30 L.F. 1.40% 1.30%

UP INV.=912.68 912.73

DOWN INV.=912.26 912.34

12" R.C.P. CLASS III

1'' = 50 FT

No. 19358 STATE OF · MOIANA ..

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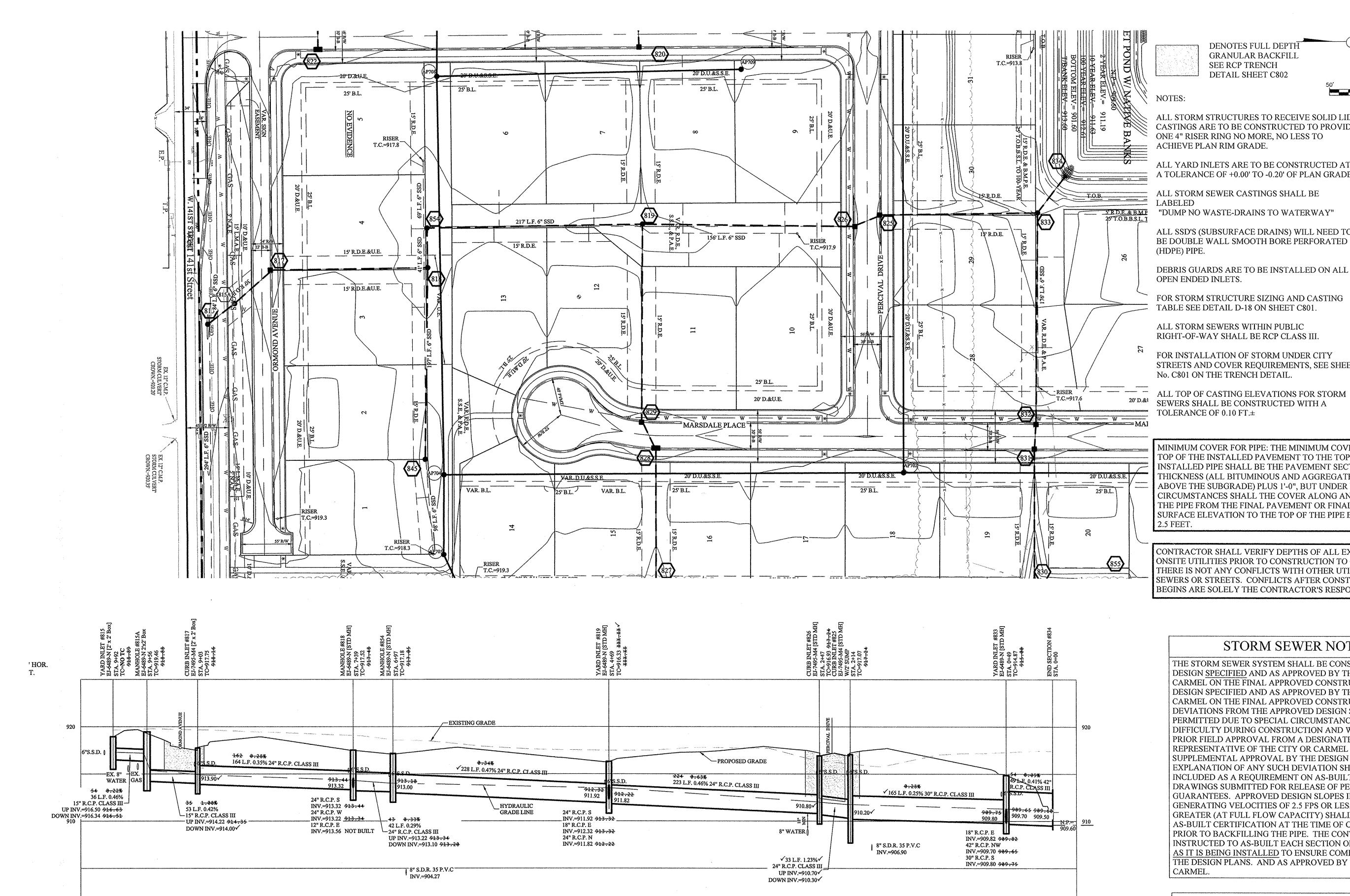
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SEWER

DRAWN BY: CHECKED BY:
ADG BAH

C602 s & A JOB NO. 44855DRE



DENOTES FULL DEPTH **GRANULAR BACKFILL** SEE RCP TRENCH **DETAIL SHEET C802**

(IN FEET) ALL STORM STRUCTURES TO RECEIVE SOLID LID CASTINGS ARE TO BE CONSTRUCTED TO PROVIDE

No.

19358

STATE OF

MOIANA.

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PROFIL

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SEWER

STORM

DRAWN BY:

ADG

C603

S & A JOB NO. 44855DRE

CHECKED BY

BAH

ALBAN

ALL YARD INLETS ARE TO BE CONSTRUCTED AT

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(HDPE) PIPE.

OPEN ENDED INLETS.

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ALL TOP OF CASTING ELEVATIONS FOR STORM 20' D.&I SEWERS SHALL BE CONSTRUCTED WITH A TOLERANCE OF 0.10 FT.±

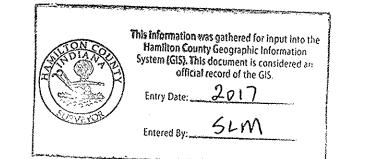
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RECORD DRAWING

"Section One Only" No. 900012 10/11/2016 Dennis D. Olmstead STATE OF Registered Land Surveyor NO SURVE IN No. 900012

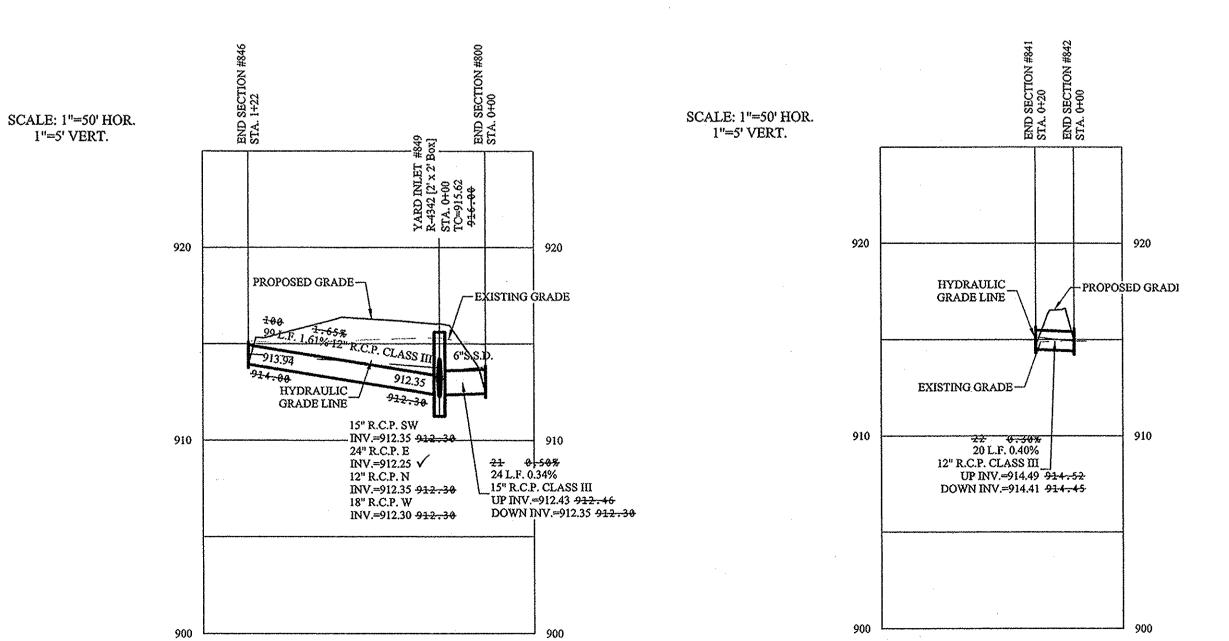


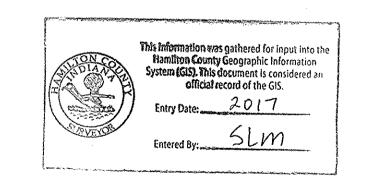


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Indiana Underground Plant Protection Service

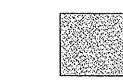




RECORD DRAWING "Section One Only"

Dennis D. Olmstead Registered Land Surveyor No. 900012

No. 900012 STATE OF * WDIANA



DENOTES FULL DEPTH **GRANULAR BACKFILL** SEE RCP TRENCH **DETAIL SHEET C802**

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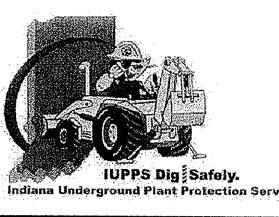
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(IN FEET)

1" = 50 FT

GRAPHIC SCALE

STOEPA No. 19358 STATE OF

. MOIANA.

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PROFILE \otimes PLAN PL SEWER

снескед ву: ВАН drawn by: ADG

s&ajobno. 44855DRE

I''=5' VERT.

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