Deer Run

Subarea B

Final Development Plan Application

Resubmittal
7/29/2016

City of Dublin, Ohio

Prepared For:

Deer Run Land, LLC

Prepared By:

isaac wiles

OHM Advancing Communities

February 2009

CITY OF DUBLIN

Land Use and
Long Range Planning
5800 Shier-Rings Road
Dublin, Ohio 43016-1236

Phone/ TDD: 614-410-4600
Fax: 614-410-4747
Web Site: www.dublin.oh.us

PLANNING AND ZONING COMMISSION APPLICATION

(Code Section 153.232)

I. PLEASE CHECK THE TYPE OF APPLICATION:

- ☐ Informal Review
- ☐ Concept Plan (Section 153.056(A)(1))
- ☐ Preliminary Development Plan / Rezoning (Section 153.053)
- ☑ Final Development Plan (Section 153.053(E))
- ☐ Amended Final Development Plan (Section 153.053(E))
- ☐ Standard District Rezoning (Section 153.018)
- ☐ Preliminary Plat (Section 152.015)
- ☐ Final Plat (Section 152.085)
- ☐ Conditional Use (Section 153.236)
- ☐ Corridor Development District (CDD) (Section 153.115)
- ☐ Corridor Development District (CDD) Sign (Section 153.115)
- ☐ Minor Subdivision
- ☐ Right-of-Way Encroachment
- ☐ Other (Please Specify): _____

Please utilize the applicable *Supplemental Application Requirements* sheet for additional submittal requirements that will need to accompany this application form.

II. PROPERTY INFORMATION: This section must be completed.

Property Address(es):	
Tax ID/Parcel Number(s): SEE ATTACHED LIST.	Parcel Size(s) (Acres):
Existing Land Use/Development: PUD; Estate Lot Single Family Homes	

IF APPLICABLE, PLEASE COMPLETE THE FOLLOWING:
Proposed Land Use/Development: Estate Lot Single Family Homes
Total acres affected by application:

III. CURRENT PROPERTY OWNER(S): Please attach additional sheets if needed.

Name (Individual or Organization): Deer Run Land, LLC	
Mailing Address: (Street, City, State, Zip Code) 330 W. Spring Street, Ste. 400 Columbus, OH 43215	
Daytime Telephone: Please contact representative	Fax:
Email or Alternate Contact Information: gbennett@talismancp.com	

IV. APPLICANT(S): This is the person(s) who is submitting the application if different than the property owner(s) listed in part III. Please complete if applicable.

Name: George Bennett	Applicant is also property owner: yes ☑ no ☐
Organization (Owner, Developer, Contractor, etc.): Deer Run Land, LLC	
Mailing Address: (Street, City, State, Zip Code) 330 W. Spring Street, St. 400, Columbus, OH 43215	
Daytime Telephone: Please contact representative	Fax:
Email or Alternate Contact Information: gbennett@talismancp.com	

V. REPRESENTATIVE(S) OF APPLICANT / PROPERTY OWNER: This is the person(s) who is submitting the application on behalf of the applicant listed in part IV or property owner listed in part III. Please complete if applicable.

Name: Michael L. Close, Esq. and Thomas L. Hart, Esq.	
Organization (Owner, Developer, Contractor, etc.): Isaac Wiles Burkholder & Teetor LLC	
Mailing Address: (Street, City, State, Zip Code) Two Miranova Place, Ste,. 700, Columbus, OH 43215	
Daytime Telephone: 614-221-2121	Fax: 614-365-9516
Email or Alternate Contact Information: thart@isaacwiles.com; mclose@isaacwiles.com	

VI. AUTHORIZATION FOR OWNER'S APPLICANT or REPRESENTATIVE(S): If the applicant is not the property owner, this section must be completed and notarized.

I George Bennett, the owner, hereby authorize Michael L. Close or Thomas L. Hart to act as my applicant or representative(s) in all matters pertaining to the processing and approval of this application, including modifying the project. I agree to be bound by all representations and agreements made by the designated representative.

Signature of Current Property Owner: ✓ Gary H. Bettl Vice President	Date: 06-23-16

☐ Check this box if the Authorization for Owner's Applicant or Representative(s) is attached as a separate document

Subscribed and sworn before me this 23rd day of June, 20 16

State of Ohio

County of Franklin

Notary Public Katherine L Jenkins

NOTARIAL SEAL STATE OF OHIO

Katherine L. Jenkins
Notary Public, State of Ohio
My Commission Expires 10-10-2016

VII. AUTHORIZATION TO VISIT THE PROPERTY: Site visits to the property by City representatives are essential to process this application. The Owner/Applicant, as noted below, hereby authorizes City representatives to visit, photograph and post a notice on the property described in this application.

I George Bennett, the owner or authorized representative, hereby authorize City representatives to visit, photograph and post a notice on the property described in this application.

Signature of applicant or authorized representative: ✓ Gary H. Bettl Vice President	Date: 06-23-16

VIII. UTILITY DISCLAIMER: The Owner/Applicant acknowledges the approval of this request for review by the Dublin Planning and Zoning Commission and/or Dublin City Council does not constitute a guarantee or binding commitment that the City of Dublin will be able to provide essential services such as water and sewer facilities when needed by said Owner/Applicant.

I George Bennett, the owner or authorized representative, acknowledge that approval of this request does not constitute a guarantee or binding commitment that the City of Dublin will be able to provide essential services such as water and sewer facilities when needed by said Owner/Applicant.	
Signature of applicant or authorized representative: George H. Bett, Vice President	Date: 06-23-16

IX. APPLICANT'S AFFIDAVIT: This section must be completed and notarized.

I George Bennett, the owner or authorized representative, have read and understand the contents of this application. The information contained in this application, attached exhibits and other information submitted is complete and in all respects true and correct, to the best of my knowledge and belief.	
Signature of applicant or authorized representative: George H. Bett, Vice President	Date: 06-23-16

Subscribed and sworn to before me this 23rd day of June, 20 16

State of Ohio

County of Franklin

Notary Public Katherine L. Jenkins

NOTARIAL SEAL STATE OF OHIO

Katherine L. Jenkins
Notary Public, State of Ohio
My Commission Expires 10-10-2016

FOR OFFICE USE ONLY			
Amount Received:	Application No:	P&Z Date(s):	P&Z Action:
Receipt No:	Map Zone:	Date Received:	Received By:
City Council (First Reading):		City Council (Second Reading):	
City Council Action:		Ordinance Number:	
Type of Request:			
N, S, E, W (Circle) Side of:			
N, S, E, W (Circle) Side of Nearest Intersection:			
Distance from Nearest Intersection:			
Existing Zoning District:		Requested Zoning District:	

Planning and Zoning Commission Application 7/8/2016
Deer Run: Subarea B
Final Development Plan

Application Section II. Property Information

Parcel Number	Owner Name	Address	Acreage
60043307012000	DEER RUN LAND LLC	0; DUBLIN; 43017	2.454
60043307017000	DEER RUN LAND LLC		0.267
60043307017006	DEER RUN LAND LLC		6.464
60043307017007	DEER RUN LAND LLC		4.505
60043401015000	DEER RUN LAND LLC		1.633
Total Acreage (per Auditor)			15.323

source: http://www.delco-gis.org/auditor

DEER RUN SUBAREA B
FINAL DEVELOPMENT PLAN STATEMENT

A: Explain the proposed development and how the proposal relates to existing development in the vicinity.

The proposed final development plan is the next step in developing Subareas A and B of the Deer Run Planned Unit Development. The plan remains consistent with the goals of the preliminary development plan. Subarea B is approximately 15.6 acres, includes 5 lots, a significant portion of which will be platted as no-disturb zone for tree preservation.

The proposed plan is consistent with medium and low density single-family residential development to the north, west and south. The applicant proposes the continuation of the existing large estate lot development that exists in Deer Run Estates.

B: State how the proposed final/amended final development plan relates to the Dublin Community Plan and the approved preliminary development plan. If there is a modification from the preliminary development plan, explain the nature and location of the proposed modification.

The current Dublin Community plan marks the site as future "Suburban/ Rural Residential" which is made up of a density of 0.5 to 1 unit per acre. The overall density of the proposed plan is 0.297 units per acre, with open space, natural feature and tree preservation.

The proposed development seeks to protect the site's unique land characteristics, including the ravine between Subareas A and B and existing woods. Limiting the ravine area to large, estate lot development, the proposal meets the Community Plan's definition of "Residential Low Density". The resulting balance of protecting natural and sensitive areas, while configuring buildings and integrating development in harmony with the existing character of the land, is expected to create opportunities for outstanding living environments.

The plan proposes a modification of the Subarea B layout from that proposed in the Preliminary Development Plan by repositioning the private street and some the home sites within the subarea. Doing so allows for the homes to offer a safer environment in the immediate areas around the home, away from the ravine. This modification does not change the character of the neighborhood, maintains the same number of proposed homes, the same amount of open space, and the same amount of no-disturb zone for tree preservation.

C: Explain how the proposed development meets the review criteria for Final Development Plan approval by the Planning and Zoning Commission [Code Section 153.055(B)] (See page 3).

1) The plan conforms in all pertinent respects to the approved preliminary development plan provided, however, that the Planning and Zoning Commission may authorize plans as specified in §153.053(E)(4);

   This plan seeks to modify Subarea B by repositioning the private street and some the home sites. Doing so allows for the homes to offer a safer environment in the immediate areas around the

home, away from the ravine. This modification does not change the character of the neighborhood, maintains the same number of proposed homes, the same amount of open space, and the same amount of no-disturb zone for tree preservation.

2) Adequate provision is made for safe and efficient pedestrian and vehicular circulation within the site and to adjacent property;

   The project consists of a very low density. Vehicular circulation is by use of a very simple street network, the street widths are purposefully made narrow to encourage slower speeds, and minimize the visual impact on the natural character of the site. Pedestrian circulation will also be via the street network, as approved in the preliminary plan, due to the very low volume nature of the streets.

3) The development has adequate public services and open spaces;

   The project will access sewer and water service already located on site. Open spaces are provided on site consistent with those planned in the preliminary development plans, and the site is adjacent to a City park.

4) The development preserves and is sensitive to the natural characteristics of the site in a manner that complies with the applicable regulations set forth in this Code;

   The site provides a platted no-disturb zone specifically for the purpose of preserving trees on the site. The streets have also been studied and adjusted to try to minimize tree removal. It is intended that individual homes will be designed to work with the natural character of each home site as much as possible.

5) The development provides adequate lighting for safe and convenient use of the streets, walkways, driveways, and parking areas without unnecessarily spilling or emitting light onto adjacent properties or the general vicinity;

   The development seeks to maintain the natural character of the site as an amenity to the neighborhood, and as such, is seeking to not include lighting in the development plans for the project, as was approved for Subarea A. Architectural light fixtures may be used on homes.

6) The proposed signs, as indicated on the submitted sign plan, will be coordinated within the Planned Unit Development and with adjacent development; are of an appropriate size, scale, and design in relationship with the principal building, site, and surroundings; and are located so as to maintain safe and orderly pedestrian and vehicular circulation;

   There is an existing entry gate and small identity sign which will be maintained. No new signage is planned at this time.

7) The landscape plan will adequately enhance the principal building and site; maintain existing trees to the extent possible; buffer adjacent incompatible uses; break up large expanses of pavement with natural material; and provide appropriate plant materials for the buildings, site, and climate;

Trees are proposed along portions of the streets to serve as replacement for trees removed, and to eventually grow to fill in the tree canopy, and add to the site's character. The intent for the streetscape is to maintain and enhance the existing character of the wooded areas, and to fill in areas disrupted during construction. Landscape plans for individual homes will be submitted with those home's plans.

8) Adequate provision is made for storm drainage within and through the site which complies with the applicable regulations in this Code and any other design criteria established by the City or any other governmental entity which may have jurisdiction over such matters;

   The site provides storm drainage through swales located alongside the private streets, with appropriate outlet points. See the submitted plans.

9) If the project is to be carried out in progressive stages, each stage shall be so planned that the foregoing conditions are complied with at the completion of each stage; and

   The project is expected to develop the streets and utilities first. Home sites will be developed individually as market demands.

10) The Commission believes the project to be in compliance with all other local, state, and federal laws and regulations.

   The project strives to meet applicable regulations.

D: For an amended final development plan, explain how the proposal is different from the approved final development plan.

Not Applicable

E: Explain how the proposal is consistent or inconsistent with the development text for the Planned District.

A modified development text is provided with this submittal. The modifications resolve inconsistencies related to the plan adjustments of the home sites, street location, and tree preservation area. The modifications maintain the intent of the original text. *The proposed plan and text continue to provide lots with a minimum two-acre size, private streets that also serve as access and utility easements, open space consistent with the approved plan, and a platted tree preservation zone. The site is heavily wooded, and special language related to tree replacement was approved in the preliminary plan, and this plan quantifies removal and replacement consistent with that text. The private streets will be un-curbed, and will include a decorative gravel top-dressing, consistent with the appearance of the existing Deer Run Drive treatment.*

Deer Run Subarea "B" Legal Description

Situated in the State of Ohio, Delaware County, City of Dublin, Virginia Military Survey No. 2545 and being part of Lot 3, Lot 9, and Lot 11 of Deer Run Estates as shown of record in Plat Book 18, Page 34 in the name of Deer Run Land, LLC as described in O.R. 483, Page 1893; part of Lot 7 of said Deer Run Estates in the name of Deer Run Land, LLC as described in O.R. 483, Page 1895; being all of a 6.466 acre tract (Tract 1) and a 4.505 acre tract (Tract 2) in the name of Deer Run Land, LLC as described in O.R. 1404, Page 2086-2092 and all of a 0.600 in the name of Deer Run Land, LLC as described in O.R.xxxx, Page xxxx, all references contained herein are to the Recorder's Office, Delaware County, Ohio and being more particularly described as follows:

Beginning at an iron pipe set in the easterly right of way line of Dublin-Bellepoint Road (R/W varies) at the southwesterly corner of Deer Run Subarea A & Partial Re-subdivision of Deer Run Estates as described in O.R. 1426, Page 1656-1657 and Plat Cabinet 4, Slide 45-45A.

Thence through said Lot 3 and with the southerly line of said Deer Run Subarea A & Partial Re-subdivision of Deer Run Estates the following six (6) courses:

1. North 72°51'01" East, a distance of 172.80 feet to an iron pipe set;
2. South 25°17'32" East, a distance of 65.34 feet to an iron pipe set;
3. North 86°44'32" East, a distance of 85.97 feet to an iron pipe set;
4. North 48°23'43" East, a distance of 150.02 feet to an iron pipe set;
5. South 14°05'10" East, a distance of 93.75 feet to an iron pipe set;
6. South 43°28'34" East, a distance of 58.13 feet to an iron pipe set;

Thence South 75°15'18" East continuing through said Lot 3 and said Lot 7 with the southerly line of said Deer Run Subarea A & Partial Re-subdivision of Deer Run Estates, a distance of 68.25 feet to an iron pipe set;

Thence through said Lot 7 with the southerly line of said Deer Run Subarea A & Partial Re-subdivision of Deer Run Estates the following four (4) courses:

1. North 45°13'17" East, a distance of 387.18 feet to an iron pipe set;
2. North 13°13'09" East, a distance of 70.67 feet to an iron pipe set;
3. North 51°07'01" East, a distance of 184.79 feet to an iron pipe set;
4. North 64°48'25" East, a distance of 32.97 feet to an iron pipe set;

Thence North 25°11'35" West continuing through said Lot 7 and said Lot 9 with the southerly line of said Deer Run Subarea A & Partial Re-subdivision of Deer Run Estates a distance of 34.18 feet to an iron pipe set;

Thence South 75°56'08" East continuing through said Lot 9 and Lot 11 with the southerly line of said Deer Run Subarea A & Partial Re-subdivision of Deer Run Estates a distance of 496.43 feet to an iron pipe set;

Thence South 24°23'01" East through said Lot 11 with the southerly line of said Deer Run Subarea A & Partial Re-subdivision of Deer Run Estates a distance of 105.61 feet to a railroad spike found at the southwesterly corner of Reserve "A" of Deer Run Estates as shown of record in P.B. 18, Page 34 at the northeasterly corner of said 0.600-acre tract in the name of Deer Run Land, LLC,

Thence South 24°23'01" East, with the easterly line of said 0.600 acre tract also being the westerly line of a tract in the name of City of Dublin, Ohio as described in O.R. 630, Page 341 (Delaware County) and IN. 199710100117335 (Franklin County) a distance of 195.07 feet to a yellow capped 3/4" inside diameter iron pipe inscribed "P.S. 6579" at the southeasterly corner of said 0.600 acre tract;

Thence South 60°22'49" West, continuing with said westerly line also being the southerly line of said 0.600 acre tract a distance of 130.67 feet to a point referenced by a yellow capped 3/4" inside diameter iron pipe found inscribed "P.S. 6579" bearing North 24°23'31" West, a distance of 9.96 feet;

Thence South 24°23'31" East, continuing with said westerly line a distance of 92.76 feet to a yellow capped 3/4" inside diameter iron pipe found inscribed "P.S. 6579" at the northeasterly corner of Deer Run Section I as shown of record in O.R. 1380, Page 1809-1811 (Delaware County) and P.B. 119, Page 45 (Franklin County);

Thence with the northerly line of said Deer Run Section I the following twenty-one (21) courses:

1. North 89°16'41" West, a distance of 187.71 feet to an iron pipe set;
2. South 00°45'15" West, a distance of 176.58 feet to a yellow capped 13/16" inside diameter iron pipe inscribed "EMHT" found;
3. North 74°21'04" West, a distance of 60.94 feet to a yellow capped 13/16" inside diameter iron pipe inscribed "EMHT" found
4. South 85°05'34" West, a distance of 71.37 feet to a yellow capped 13/16" inside diameter iron pipe inscribed "EMHT" found
5. South 66°42'58" West, a distance of 83.85 feet to a yellow capped 13/16" inside diameter iron pipe inscribed "EMHT" found
6. North 80°04'28" West, a distance 15.99 feet to a yellow capped 13/16" inside diameter iron pipe inscribed "EMHT" found
7. North 46°48'25" West, a distance of 61.09 feet to a yellow capped 13/16" inside diameter iron pipe inscribed "EMHT" found
8. North 60°50'38" West, a distance of 51.49 feet to an iron pipe set at the southeasterly corner of an original 15.050 acre tract in the name of WASATCH Partners, LLC as described in O.R. 203, Page 500 (Delaware County) and IN. 200205150122379 (Franklin County)
9. North 60°50'38" West, a distance of 9.60 feet to a yellow capped 13/16" inside diameter iron pipe inscribed "EMHT" found
10. North 74°52'46" West, a distance of 61.09 feet to yellow capped 13/16" inside diameter iron pipe inscribed "EMHT" found
11. North 88°54'57' West, a distance of 61.09 feet to a yellow capped 13/16" inside diameter iron pipe inscribed "EMHT" found
12. South 80°01'22" West, a distance of 74.77 feet to an iron pipe set
13. South 72°45'34" West, a distance of 100.70 feet to a yellow capped 13/16" inside diameter iron pipe inscribed "EMHT" found
14. South 54°54'16" West, a distance of 60.45 feet to a yellow capped 13/16" inside diameter iron pipe inscribed "EMHT" found
15. South 35°33'39" West, a distance of 61.39 feet to a yellow capped 13/16" inside diameter iron pipe inscribed "EMHT" found
16. South 18°33'49" West, a distance of 25.72 feet to a yellow capped 13/16" inside diameter iron pipe inscribed "EMHT" found
17. North 65°30'25" West, a distance of 152.08 feet to a yellow capped 13/16" inside diameter iron pipe inscribed "EMHT" found
18. South 84°03'14" West, a distance of 81.94 feet to a yellow capped 13/16" inside diameter iron pipe inscribed "EMHT" found
19. South 59°08'57" West, a distance of 81.94 feet to a yellow capped 13/16" inside diameter iron pipe inscribed "EMHT" found
20. South 34°14'40" West, a distance of 81.94 feet to a yellow capped 13/16" inside diameter iron pipe inscribed "EMHT" found
21. South 73°03'04" West, a distance of 139.11 feet, passing the Franklin-Delaware County Line at 119.02 feet to a yellow capped 13/16" inside diameter iron pipe inscribed "EMHT" found in the easterly right of way line of said road

Thence North 16°56'57" West, a distance of 463.89 feet along said easterly line to an iron pin set;

Thence North 23°41'53" West, a distance of 5.10 feet along said easterly line to the **True Place of Beginning** containing 15.643 acres more or less, of which 15.643 acres is in Delaware County and 0.002 acres is in Franklin County, subject to all legal highways, easements, leases and restrictions of record and of records in the respective utility offices.

Iron pipes set are ¾" inside diameter 30" long iron pipes with a yellow cap inscribed "OHM".

The bearings are based on the Ohio State Plane Coordinate System, South Zone, NAD83, (2011 adjustment) holding the northerly line of Deer Run Estates as being North 69°52'41" East.

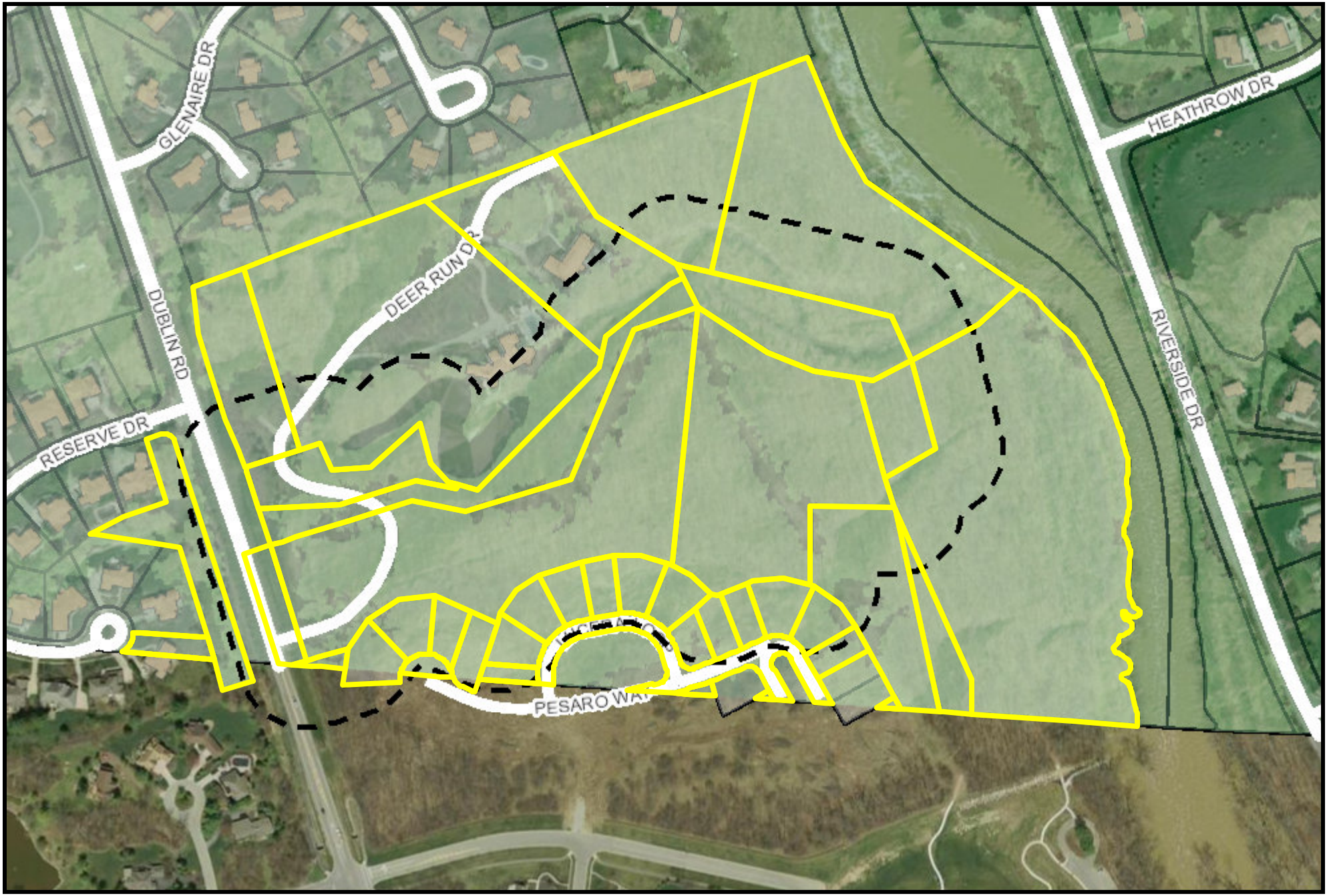
I hereby certify measurements were obtained by an actual field survey conducted under my direct supervision in October 2015.

7/7/2016

John J. Raab, P.S. 7863

STATE OF OHIO
JOHN JEFFREY
RAAB
7863
REGISTERED
PROFESSIONAL SURVEYOR

Encl: Legal Description 18.419 Acres Subarea B
cc: Deer Run



Delaware County Auditor
George Kaitsa

Information contained within this map may be used to generally locate, identify and inventory land parcels within Delaware County.
Delaware County cannot warrant or guarantee the information contained herein, including, but not limited to its accuracy
or completeness. The map parcel lines shown are approximate and this information cannot be constructed or used as a "legal description" of a parcel.
Flood Plain information is obtained from FEMA and is administered by the Delaware County Building Department (740-833-2201).
Please report any errors or omissions to the Delaware County Auditor's office at delcogis@co.delaware.oh.us.
Prepared by: Delaware County Auditor's GIS Office

Printed on 7/7/2016

N
W E
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0 155 310 620
ft

Parcel Number	Owner Name	Address	Tax Payer Address
27300138100	PETERS SCOTT P	8438 TIBBERMORE CT, DUBLIN, OHIO, 43017	
27300138200	KNAUS KEVIN J	8422 TIBBERMORE CT, DUBLIN, OHIO, 43017	
27301267600	WASATCH PARTNERS LLC		330 W SPRING ST SUITE 400 COLUMBUS, OHIO, 43215
27301269200	CORTONA HOMEOWNERS ASSOCIATION INC		148 W SHROCK RD WESTERVILLE, OHIO, 43081
60043306001000	RESERVE ASSOCIATION THE		5550 BLAZER PKWY DUBLIN, OHIO, 43017
60043307012000	DEER RUN LAND LLC		330 W SPRING ST SUITE 400 COLUMBUS, OHIO, 43215
60043307012000	DEER RUN LAND LLC		330 W SPRING ST SUITE 400 COLUMBUS, OHIO, 43215
60043307017000	WASATCH PARTNERS LLC		330 W SPRING ST SUITE 400 COLUMBUS, OHIO, 43215
60043307017001	CITY OF DUBLIN OHIO		5800 SHEIR-RINGS RD DUBLIN, OHIO, 43017
60043307017003	CITY OF DUBLIN		5800 SHEIR-RINGS RD DUBLIN, OHIO, 43017
60043307017005	CITY OF DUBLIN OHIO		5800 SHEIR-RINGS RD DUBLIN, OHIO, 43017
60043307017006	DEER RUN LAND LLC		330 W SPRING ST SUITE 400 COLUMBUS, OHIO, 43215
60043307017007	DEER RUN LAND LLC		330 W SPRING ST SUITE 400 COLUMBUS, OHIO, 43215
60043309001000	CORTONA HOMEOWNERS ASSOCIATION INC		148 W SHROCK RD WESTERVILLE, OHIO, 43081
60043309002000	WASATCH PARTNERS LLC	4996 PESARO WAY; DUBLIN; 43017	330 W SPRING ST SUITE 400 COLUMBUS, OHIO, 43215
60043309003000	CRILE DONALD R & PAMELA M	4994 PESARO WAY; DUBLIN; 43017	
60043309004000	BOUFFARD PAMELA J	4986 PESARO WAY; DUBLIN; 43017	
60043309005000	CALHOUN LAURA J	4982 PESARO WAY; DUBLIN; 43017	
60043309006000	CARBONE LAURENCE F & STACIE L	8540 LUCERA LOOP; DUBLIN; 43017	
60043309007000	WASATCH PARTNERS LLC	8532 LUCERA LOOP; DUBLIN; 43017	330 W SPRING ST SUITE 400 COLUMBUS, OHIO, 43215
60043309008000	ALFONSI JUDITH M & TRUSTEE	8528 LUCERA LOOP; DUBLIN; 43017	
60043309009000	WASATCH PARTNERS LLC	8522 LUCERA LOOP; DUBLIN; 43017	330 W SPRING ST SUITE 400 COLUMBUS, OHIO, 43215
60043309010000	WASATCH PARTNERS LLC	8516 LUCERA LOOP; DUBLIN; 43017	330 W SPRING ST SUITE 400 COLUMBUS, OHIO, 43215
60043309011000	WASATCH PARTNERS LLC	8510 LUCERA LOOP; DUBLIN; 43017	330 W SPRING ST SUITE 400 COLUMBUS, OHIO, 43215
60043309013000	WASATCH PARTNERS LLC	4966 PESARO WAY; DUBLIN; 43017	330 W SPRING ST SUITE 400 COLUMBUS, OHIO, 43215
60043309014000	BISHOP THOMAS ALAN & VICTORIA SUE	4958 PESARO WAY; DUBLIN; 43017	
60043309015000	WASATCH PARTNERS LLC	4952 PESARO WAY; DUBLIN; 43017	330 W SPRING ST SUITE 400 COLUMBUS, OHIO, 43215
60043309016000	KENNEDY MICHAEL P & ANDRA JILL	4944 PESARO WAY; DUBLIN; 43017	
60043309017000	HUNTER MICHELLE D & DONALD J JR	4936 PESARO WAY; DUBLIN; 43017	
60043309018000	WASATCH PARTNERS LLC	4928 PESARO WAY; DUBLIN; 43017	330 W SPRING ST SUITE 400 COLUMBUS, OHIO, 43215
60043309021000	CORTONA HOMEOWNERS ASSOCIATION INC		148 W SHROCK RD WESTERVILLE, OHIO, 43081
60043309024000	CORTONA HOMEOWNERS ASSOCIATION INC		148 W SHROCK RD WESTERVILLE, OHIO, 43081
60043309025000	CORTONA HOMEOWNERS ASSOCIATION INC		148 W SHROCK RD WESTERVILLE, OHIO, 43081
60043310001000	DEER RUN LAND LLC		330 W SPRING ST SUITE 400 COLUMBUS, OHIO, 43215
60043310002000	PETRICHOR LANE LLC	5000 DEER RUN DR, DUBLIN, OHIO, 43017	
60043310003000	DEER RUN LAND LLC	4900 DEER RUN DR, DUBLIN, OHIO, 43017	330 W SPRING ST SUITE 400 COLUMBUS, OHIO, 43215
60043310004000	DEER RUN LAND LLC	0 DEER RUN DR; DUBLIN; 43017	330 W SPRING ST SUITE 400 COLUMBUS, OHIO, 43215
60043310005000	DEER RUN LAND LLC	0 DEER RUN DR; DUBLIN; 43017	330 W SPRING ST SUITE 400 COLUMBUS, OHIO, 43215
60043397001000	TAXED IN FRANKLIN COUNTY		
60043397001000	TAXED IN FRANKLIN COUNTY		
60043397001000	TAXED IN FRANKLIN COUNTY		
60043401015000	DEER RUN LAND LLC		330 W SPRING ST SUITE 400 COLUMBUS, OHIO, 43215

RESERVE ASSOCIATION THE
5550 BLAZER PKWY
DUBLIN OH 43017

CITY OF DUBLIN OHIO
5800 SHIER-RINGS ROAD
DUBLIN OH 43017

BOUFFARD PAMELA J
4986 PESARO WAY
DUBLIN OH 43017

ALFONSI JUDITH M &
TRUSTEE
8528 LUCERA LOOP
DUBLIN OH 43017

HUNTER MICHELLE D &
DONALD J JR
4936 PESARO WAY
DUBLIN OH 43017

PETERS SCOTT P PETERS
MARYBETH
8438 TIBBERMORE CT
DUBLIN OH 43017

DEER RUN LAND LLC
330 W. SPRING ST.
SUITE 400
COLUMBUS OH 43215

CORTONA HOMEOWNERS
ASSOCIATION INC
148 W. SCHROCK RD
WESTERVILLE, OH 43081

CALHOUN LAURA J
4982 PESARO WAY
DUBLIN OH 43017

BISHOP ALAN & VICTORIA
SUE
4958 PESARO WAY
DUBLIN OH 43017

PETRICHOR LANE LLC
5000 DEER RUN DR
DUBLIN OH 43017

WASATCH PARTNERS LLC
330 W. SPRING ST.
SUITE 400
COLUMBUS OH 43215

CRILE DONALD R & PAMELA
M
4994 PESARO WAY
DUBLIN OH 43017

CARBONE LAURENCE F &
STACIE L
8540 LUCERA LOOP
DUBLIN OH 43017

KENNEDY P & ANDRA JILL
4944 PESARO WAY
DUBLIN OH 43017

KNAUS KEVIN J
8422 TIBBERMORE CT
DUBLIN OH 43017

DEER RUN ESTATES – APPROVED DEVELOPMENT TEXT

As Submitted to Council March 28, 2011

With modifications as proposed July 8, 2016

Subarea B: Estate Lots

I) Description:

Subarea B shall be located on the central portion of the site adjacent to Dublin Road to the east, Subarea A and the ravine to the north, the Scioto River to the east, and Subarea C to the south. This subarea shall be approximately 15.65 acres and shall contain five (5) "Estate Lots" as described below.

II) Permitted Uses:

A) Permitted uses shall include single-family detached homes.

B) Accessory Uses shall be as permitted by City of Dublin Code.

III) Density, Height, Lot and/or Setback Commitments:

A) The maximum number of dwelling units shall be five (5). The maximum density shall be 0.319 du/ac.

B) Minimum Lot size shall be 2 acres.

C) Setbacks

(1) The minimum front yard setback shall be twenty-five (25) feet from the private street easement line.

(2) The minimum side yard setback shall be twenty-five (25) feet from each side property line.

(3) The minimum rear-yard setback shall be 30 feet from the property line, or shall be the tree preservation line, or the 100-year flood line, whichever is greater.

D) Encroachments into applicable setbacks shall be in accordance with the City of Dublin Code, or as outlined within this text.

E) Maximum building height shall be thirty-five (35) feet. Height shall be measured from the finish grade at the front or main façade of the house to the height of the dominant roof mass. Architectural features that exceed this height must be compatible with the style and massing of the overall architecture of the building and shall be approved by staff.

F) There shall be only one principal use permitted on each lot, and such lot shall not be covered more than 30% by structures.

G) Homes shall be permitted to have walk-out basements so as to minimize the need for extensive site grading.

IV) Access, Loading, Parking and/or other Traffic-Related Commitments:

A) Access

(1) Access to Subarea B shall be from Dublin Road at the existing curb-cut and shall provide shared access to Subarea A.

(a) Refer to Subarea A for shared access and gate provisions.

B) Private Streets

(1) All dwelling units in this subarea shall have access from a private street or from driveways reaching the private street system, which is located between the buildable lot areas and the ravine as depicted on the Final Development Plan.

(2) The existing private street width and decorative gravel surface contribute to the natural and rural character of this site. It is the intent of this plan to maintain that character by matching the existing private street as much a possible.

(3) All streets constructed as a part of this subarea shall be privately owned and maintained and shall be combined access and utility easements.

(4) All private street easements shall have a minimum width of fifty (50) feet. All existing private streets shall be permitted to remain.

(5) The proposed private street shall be a minimum width of eighteen (18) feet. The street shall be widened at hydrant locations as shown on the plan to provide a minimum width of twenty-six (26) feet. The street and any utilities shall be adjusted within the easement so as to minimize removal of trees.

(6) Curbs and gutters shall not be required.

(7) All private streets shall be designed per the City of Dublin engineering standards, except as noted above, and so as to accommodate access by emergency vehicles.

(8) Pavement surface may be asphalt top-dressed with decorative gravel to match the appearance of the existing private street.

C) Sidewalks, bike paths, or leisure trails shall not be required.

D) Estate Lot driveways

(1) Materials shall be asphalt top-dressed with decorative gravel to match the appearance of the existing private street or the driveway materials permitted per City of Dublin Code.

(2) Multiple curb-cuts may be permitted from the private street and/or to private driveways for lots where appropriate and approved by the City. Multiple curb-cuts shall be based on safety, design aesthetics, and lot entry.

(3) This subarea shall otherwise be exempt for residential driveway code.

V) Architectural Standards:

A) Design Review: All homes within this subarea are envisioned to be custom homes and shall be held to a high quality of design and construction. No improvements, change, construction, addition, excavation, landscaping, tree removal, or other work or action that in any way alters the exterior appearance of the lots or common open space shall be commenced or continued without review and written approval from the Design Committee. The committee shall be appointed by the Trustees of the Association, and shall consist of at least three members. Design review procedure shall be outlined within the deed restrictions of the lots.

B) Architectural Diversity: In order to ensure that there is architectural diversity, homes located on adjacent lots within Subarea A shall be required to utilize either (1) different floor plans or (2) different architectural styles. In the event that homes with the same architectural style are built on adjacent lots, then, in addition to being required to incorporate different floor plans, these homes also shall be required to use different exterior colors and materials.

C) Exterior materials:

(1) All buildings shall incorporate four-sided architecture.

(2) Finish building materials shall be applied to all sides of the exteriors of all buildings.

(3) Colors shall be harmonious and compatible with colors of the natural surroundings and other adjacent buildings, if any. The Design Committee shall have the sole right to approve or disapprove materials and colors, consistent with the approved development text and approved final development plan..

(4) Cladding materials: The exteriors of structures in this subarea shall be constructed of brick, stone, manufactured stone, wood, stucco, cementitious siding, and other comparable materials, subject to approval by Planning (or any combination thereof).

(5) Trim materials: Permitted exterior trim materials shall include wood, aluminum (for gutters and downspouts only), copper, EIFS, fiber-cement products, or composite wood, products. Shutters shall be considered "trim" for purposes of this development text.

(6) Roof materials: All homes shall have dimensional asphalt shingles, wood, slate, tile, metal, or copper.

VI) Buffering, Landscaping, Open Space and/or Screening Commitments

A) All residential landscaping shall meet the landscape requirements of the City of Dublin Zoning Code, unless specified within the development text.

B) Open Space: Subarea B shall contain approximately 1.9 acres of common open space, located along Dublin Road. Common Open Space shall be maintained by a forced and funded homeowners association.

C) Each Estate Lot within Subarea B shall contain a portion of platted tree preservation area totaling 3.9 ac. This area shall be located generally south of the buildable lot areas and access easement that traverses the subarea. No structures or other site improvements may be built within this area. All existing trees and topography shall be preserved as approved on the Final Development Plan.

D) All existing trees in fair or good condition shall be preserved within the common open space, except in locations of necessary common access and utility easements. Any area not occupied by trees shall be maintained as lawn, planting area for screening purposes, or as natural vegetation.

E) Tree Preservation

(1) It is the intent of the developer to preserve as many trees as possible in this subarea due to the heavily wooded nature of the site.

(2) A tree survey will be provided at the final development plan identifying any trees within the proposed development footprint of any site improvement that will be

removed. A tree replacement plan shall also be provided identifying tree replacement in accordance with the requirements as outlined below in Section (3). A good-faith effort shall be made to limit any tree removal to only those areas within the development footprint, to be identified on the final development plan.

(3) The site shall meet the following requirements regarding tree preservation and replacement:

a. Any trees in good or fair condition removed from the common open space area (except as noted above) or from any required rear yard setback measuring between 6 inches up to and including 18 inches (DBH) in width shall be replaced on a tree-for-tree basis; and

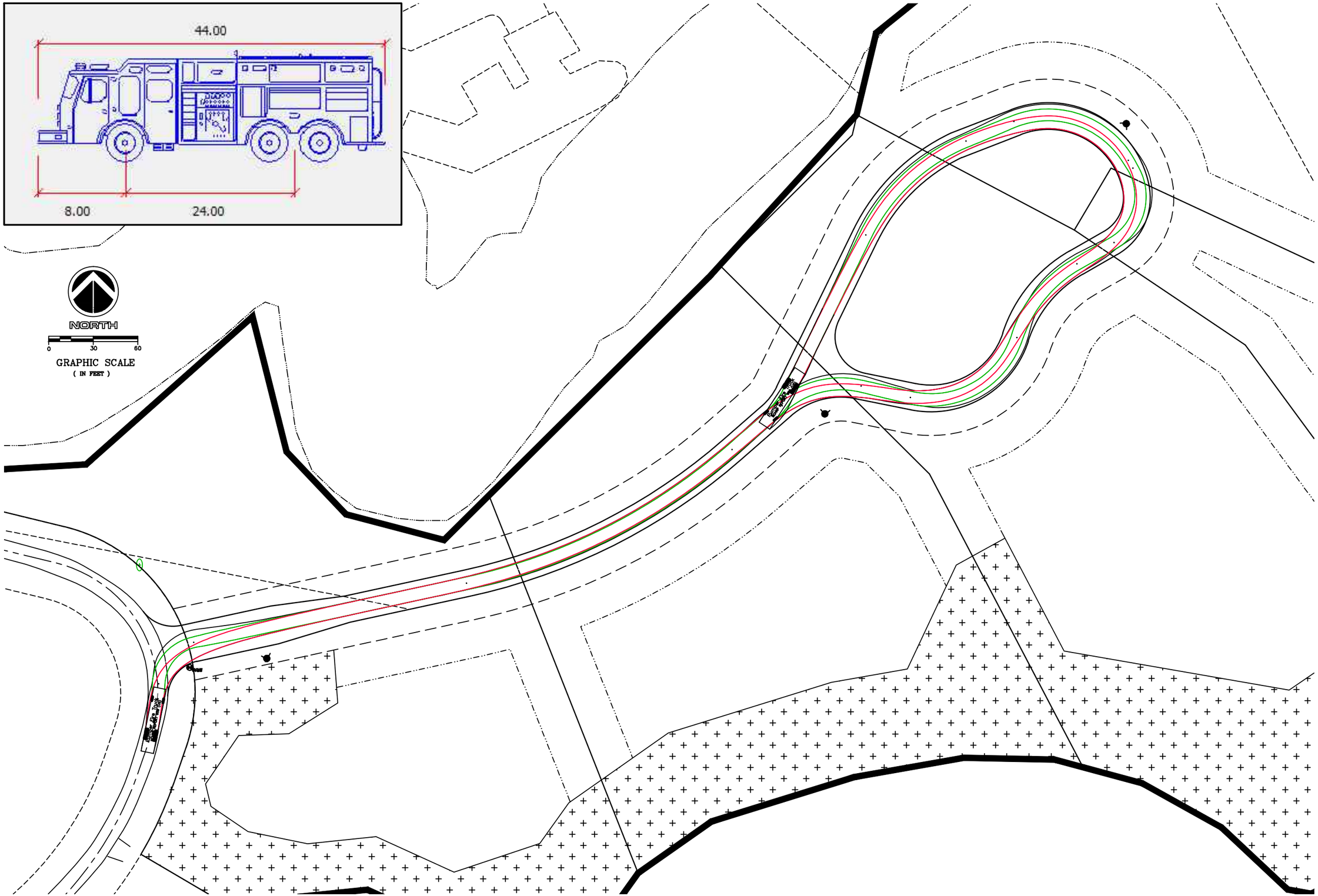
b. Any trees in good or fair condition greater than 18 inches(DBH) removed from the site shall be replaced on an inch-for-inch basis.

(4) All trees to be preserved shall be protected by tree preservation fencing in accordance with the City of Dublin's tree preservation fence details and guidelines.

F) Street Trees shall not be required along any private streets. Any landscaping along the private street should maintain a natural appearance.

VII) Model Homes

A) Model homes shall not be permitted in this subarea.



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OHM
ARCHITECTS ENGINEERS PLANNERS
580 North Fourth Street, SUITE 630
Columbus, Ohio 43215
P (614) 418-9921 | F (614) 418-0614
OHM-ADVISORS.COM

REVISIONS:
01/04/2016 - REVISIONS PER CITY OF DUBLIN COMMENTS

DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	HORIZ DATUM	VERT DATUM
	648115010	SEH	DSM	SEH	DELAWARE	DUBLIN	H:	V:	

DEER RUN LAND, LLC
DEER RUN - SUBAREA B FINAL DEVELOPMENT PLAN

FIRE TRUCK TURN EXHIBIT

SHEET EX-1

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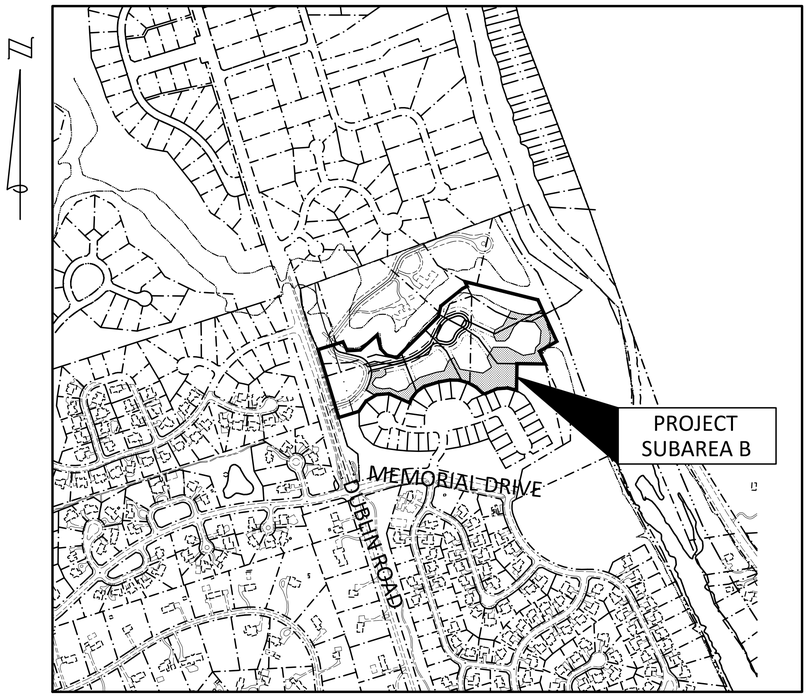
DEER RUN - SUBAREA B

FINAL DEVELOPMENT PLAN

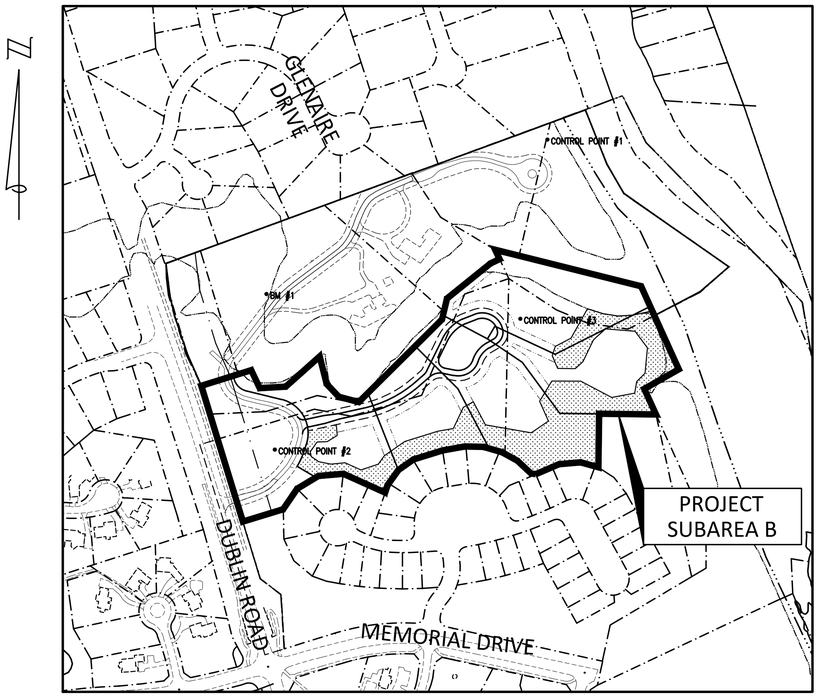
Dublin, Ohio

July, 2016



REGIONAL CONTEXT MAP

1" = 500'



VICINITY MAP

1" = 250'

BM #1 – FIRE HYDRANT, SOUTH FLANGE BOLT, NORTH SIDE OF DEER RUN DRIVE, EAST SIDE OF BRIDGE.
ELEVATION – 838.846, EASTING 1793332.222, NORTHING 780995.023

CONTROL POINT #1 – LOCATED NEAR SUBAREA A TOWARDS THE END OF THE FUTURE ROAD.
ELEVATION – 815.308, EASTING 1794203.746, NORTHING 781526.840

CONTROL POINT #2 – LOCATED NEAR SUBAREA B ON LEFT SIDE OF THE PRIVATE DRIVE.
ELEVATION – 848.616, EASTING 1793363.367, NORTHING 780606.627

CONTROL POINT #3 – LOCATED NEAR SUBAREA B TOWARDS THE END OF THE FUTURE ROAD
ELEVATION – 845.644, EASTING 1793941.976, NORTHING 780881.952

STANDARD DRAWINGS

CITY OF DUBLIN	CITY OF COLUMBUS	ODOT
RD-01	AA-S102 12/6/13	BP-3.1 07/18/14
RD-07	AA-S150 7/9/12	CB-1.1 11/18/13
RD-08	L-6309A 5/14/13	
RD-10	L-6309B 5/14/13	
SA-01	L-6310 5/14/13	
SA-02	L-6311 5/14/13	
SA-04	L-6312 5/14/13	
ST-02	L-6637 5/16/13	
ST-03	L-7001 5/16/13	
ST-05		
WA-01		

OHIO Utilities Protection SERVICE
Call Before You Dig
800-362-2764 or 8-1-1
www.oups.org

OGPUPS
Ohio Oil & Gas Producers Underground Protection Service
800-925-0988 or 8-1-1
www.ogpups.org

SHEET INDEX

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4 - TYPICAL SECTIONS
5 - EXISTING CONDITIONS - SUBAREA B
6-7 - TREE PRESERVATION & REMOVAL PLAN - SUBAREA B
8-19 - TREE SURVEY DATA TABLE - SUBAREA B
20 - OVERALL SITE PLAN
21 - OVERALL UTILITY PLAN
22-24 - PLAN AND PROFILE - SUBAREA B
25-27 - WATERLINE PLAN & PROFILE - SUBAREA B
28 - GRADING PLAN - SUBAREA B
29-30 - LANDSCAPE PLAN - SUBAREA B
31 - LANDSCAPE DETAILS

APPROVED:

CITY OF DUBLIN:

SIGNATURES BELOW SIGNIFY CONCURRENCE WITH THE GENERAL PURPOSES AND THE GENERAL LOCATION OF THE PROJECT AND DOES NOT CONSTITUTE ASSURANCE TO OPERATE AS INTENDED. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL CIVIL ENGINEER PREPARING THE PLANS.

CITY ENGINEER, CITY OF DUBLIN, OHIO — DATE

PLANNING AND ZONING COMMISSION SECRETARY, CITY OF DUBLIN, OHIO — DATE

OWNER/APPLICANT, DEER RUN LAND, LLC — DATE

CITY OF COLUMBUS:

APPROVAL ON THE PART OF CITY OF COLUMBUS IS GIVEN PURSUANT TO THE PROVISIONS OF THE WATER SERVICE AGREEMENT BETWEEN CITY OF DUBLIN, OHIO AND CITY OF COLUMBUS, OHIO, ON APRIL 13, 1993 AND ALL SUBSEQUENT AMENDMENTS THEREOF.

REGISTERED ENGINEER, OHM ADVISORS — NUMBER — DATE

ADMINISTRATOR, DIVISION OF POWER AND WATER (WATER)
CITY OF COLUMBUS, OHIO — DATE

DIRECTOR, DEPARTMENT OF PUBLIC UTILITIES
CITY OF COLUMBUS, OHIO — DATE

OHM
ARCHITECTS ENGINEERS PLANNERS
580 North Fourth Street, SUITE 630
Columbus, Ohio 43215
P (614) 418-9921 | F (614) 418-0614
OHM-ADVISORS.COM

REVISIONS:
01/04/2016 - REVISIONS PER CITY OF DUBLIN COMMENTS

HORIZ DATUM VERT DATUM SCALE H: V:

DATE PROJ NUMBER ENG PROJ MGR CADD COUNTY CITY/VILLAGE/TOWNSHIP
648115010 SEH DSM SEH DELAWARE DUBLIN

DEER RUN LAND, LLC
DEER RUN - SUBAREA B FINAL DEVELOPMENT PLAN

TITLE SHEET

SHEET 1 OF 31

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GENERAL NOTES

1. CITY OF COLUMBUS AND OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITIONS, AND ANY SUPPLEMENTS THERETO (HEREAFTER REFERRED TO AS STANDARD SPECIFICATIONS), SHALL GOVERN ALL CONSTRUCTION ITEMS UNLESS OTHERWISE NOTED. IF A CONFLICT BETWEEN SPECIFICATIONS IS FOUND, THE MORE STRICT SPECIFICATION WILL APPLY AS DECIDED BY THE CITY ENGINEER. ITEM NUMBERS LISTED REFER TO CITY OF COLUMBUS ITEM NUMBERS UNLESS OTHERWISE NOTED.

2. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION THAT ARE NOT SPECIFIED HEREIN. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR SAFETY ON THE WORK SITE, OR FOR FAILURE BY THE CONTRACTOR TO PERFORM WORK ACCORDING TO CONTRACT DOCUMENTS.

3. THE DEVELOPER OR CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO OHIO EPA PERMITS TO INSTALL (PTI) AND NOTICES OF INTENT (NOI), BUILDING PERMITS, ETC.

4. THE CONTRACTOR SHALL NOTIFY THE CITY OF DUBLIN DIVISION OF ENGINEERING IN WRITING AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.

5. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970. THE CONTRACTOR SHALL EXERCISE PRECAUTION ALWAYS FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT SHALL ALSO BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, INCLUDING THE REQUIREMENTS FOR CONFINED SPACES PER 29 CFR 1910.146.

6. FOLLOWING COMPLETION OF CONSTRUCTION OF THE SITE IMPROVEMENTS AND BEFORE REQUESTING OCCUPANCY, A PROOF SURVEY SHALL BE PROVIDED TO THE DIVISION OF ENGINEERING THAT DOCUMENTS "AS-BUILT" ELEVATIONS, DIMENSIONS, SLOPES AND ALIGNMENTS OF ALL ELEMENTS OF THIS PROJECT. THE PROOF SURVEY SHALL BE PREPARED, SIGNED AND SUBMITTED BY THE PROFESSIONAL ENGINEER WHO SEALED THE CONSTRUCTIONS DRAWINGS.

7. THE CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITY TO PUBLIC RIGHT-OF-WAY AND AREAS DEFINED AS PERMANENT AND/OR TEMPORARY CONSTRUCTION EASEMENTS, UNLESS OTHERWISE AUTHORIZED BY THE CITY ENGINEER.

8. THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASES OF WILLFUL OR CARELESS DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATIONS. RESETTING OF MARKERS SHALL BE PERFORMED BY AN OHIO PROFESSIONAL SURVEYOR AS APPROVED BY THE CITY ENGINEER.

9. NON-RUBBER TIRED VEHICLES SHALL NOT BE MOVED ON OR ACROSS PUBLIC STREETS OR HIGHWAYS WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER.

10. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN EXISTED BEFORE CONSTRUCTION. DRAINAGE DITCHES OR WATERCOURSES THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE GRADES AND CROSS-SECTIONS THAT EXISTED BEFORE CONSTRUCTION.

11. TRACKING OR SPILLING MUD, DIRT OR DEBRIS UPON STREETS, RESIDENTIAL OR COMMERCIAL DRIVES, SIDEWALKS OR BIKE PATHS IS PROHIBITED ACCORDING TO SECTION 97.38 OF THE DUBLIN CODE OF ORDINANCES. ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE CITY. IF THE CONTRACTOR FAILS TO REMOVE SAID MUD, DIRT, DEBRIS, OR SPILLAGE, THE CITY RESERVES THE RIGHT TO REMOVE THESE MATERIALS AND CLEAN AFFECTED AREAS, THE COST OF WHICH SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

12. DISPOSAL OF EXCESS EXCAVATION WITHIN SPECIAL FLOOD HAZARD AREAS (100-YEAR FLOODPLAIN) IS NOT PERMITTED.

13. ALL SIGNS, LANDSCAPING, STRUCTURES OR OTHER APPURTENANCES WITHIN RIGHT-OF-WAY DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

14. ALL FIELD TILE BROKEN OR ENCOUNTERED DURING EXCAVATION SHALL BE REPLACED OR REPAIRED AND CONNECTED TO THE PUBLIC STORM SEWER SYSTEM AS DIRECTED BY THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

15. ALL PRECAST CONCRETE PRODUCTS SHALL BE INSPECTED AT THE LOCATION OF MANUFACTURE. APPROVED PRECAST CONCRETE PRODUCTS WILL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT INSPECTION HAS BEEN CONDUCTED BY THE CITY OF COLUMBUS. PRECAST CONCRETE PRODUCTS WITHOUT PROOF OF INSPECTION SHALL NOT BE APPROVED FOR INSTALLATION.

16. BACKFILL WITHIN A 1:1 INFLUENCE LINE OF EXISTING STRUCTURES (HOUSES, GARAGES, ETC.) OR PUBLIC INFRASTRUCTURE (PAVEMENT, CURBS, SIDEWALKS, BIKE PATHS, ETC.) SHALL BE COMPACTED GRANULAR BACKFILL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR FLOWABLE CDF, TYPE III ACCORDING TO ITEM 636. ITEM 911 OF THE STANDARD SPECIFICATIONS SHALL BE USED ELSEWHERE.

17. THE CONTRACTOR SHALL SUBMIT A COPY OF THE APPROVED CONSTRUCTION DRAWINGS AND A LIST OF PROPOSED PRECAST CONCRETE PRODUCT MANUFACTURERS TO THE CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION BEFORE COMMENCING CONSTRUCTION.

    SEND THE INFORMATION TO THE FOLLOWING ADDRESS:
    CONSTRUCTION INSPECTION DIVISION
    CITY OF COLUMBUS
    1800 EAST 17TH AVENUE
    COLUMBUS, OHIO 43219

    SEND A COPY OF THE TRANSMITTAL LETTER TO THE FOLLOWING ADDRESS:
    DIVISION OF ENGINEERING
    CITY OF DUBLIN
    5800 SHIER RINGS ROAD
    DUBLIN, OHIO 43016

18. ALL TRENCHES WITHIN PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS OR SECURELY PLATED DURING NONWORKING HOURS. TRENCHES OUTSIDE THESE AREAS SHALL BE BACKFILLED OR SHALL BE PROTECTED BY APPROVED TEMPORARY FENCING OR BARRICADES DURING NONWORKING HOURS. CLEAN UP SHALL FOLLOW CLOSELY BEHIND THE TRENCHING OPERATION.

19. ALL TREES WITHIN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. TREES TO BE PRESERVED SHALL BE PROTECTED WITH HIGH VISIBILITY FENCING PLACED A MINIMUM 15 FEET FROM THE TREE TRUNK. TREES 6 -INCHES OR GREATER AT DBH (DIAMETER BREAST HEIGHT) MUST BE PROTECTED WITH FENCING PLACED AT THE CRITICAL ROOT ZONE OR 15 FEET, WHICHEVER IS GREATER. TREES NOT INDICATED ON THE APPROVED CONSTRUCTION DRAWINGS FOR REMOVAL MAY NOT BE REMOVED WITHOUT PRIOR APPROVAL OF THE DIVISION OF ENGINEERING.

20. CONDUIT MUST BE DIRECTIONALLY BORED ACROSS STREETS INSTEAD OF OPEN CUT, UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER. USE OF PNEUMATIC AIR RAM DEVICES IS NOT PERMITTED. PERMITS TO CONSTRUCT IN THE RIGHT-OF-WAY OF EXISTING STREETS MUST BE OBTAINED FROM THE CITY OF DUBLIN DIVISION OF ENGINEERING BEFORE COMMENCING CONSTRUCTION. SHOULD OPEN CUTTING OF EXISTING PAVEMENT BE PERMITTED, CONTROLLED DENSITY BACKFILL (TYPE III) SHALL BE USED IN PLACE OF COMPACTED GRANULAR BACKFILL, ACCORDING TO ITEM 636 OF THE STANDARD SPECIFICATIONS.

21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF TRENCHES WITHIN THE RIGHT-OF-WAY AND PUBLIC EASEMENTS FOR A PERIOD OF ONE YEAR FROM THE FINAL ACCEPTANCE OF THE WORK, AND SHALL MAKE ANY NECESSARY REPAIRS AT NO COST TO THE CITY.

22. PAVEMENTS SHALL BE CUT IN NEAT, STRAIGHT LINES THE FULL DEPTH OF THE EXISTING PAVEMENT, OR AS REQUIRED BY THE CITY ENGINEER. PAVEMENT REPLACEMENT SHALL BE CONDUCTED ACCORDING TO CITY OF COLUMBUS STANDARD DRAWING 1441 DR. A AND APPLICABLE CITY OF DUBLIN STANDARD DRAWINGS. THE REPLACEMENT OF DRIVEWAYS, HANDICAPPED RAMPS, SIDEWALKS, BIKE PATHS, PARKING LOT PAVEMENT, ETC. SHALL BE PROVIDED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS AND CITY OF DUBLIN STANDARD CONSTRUCTION DRAWINGS.

23. TREE TRIMMING WITHIN THE CONSTRUCTION ZONE IS TO BE COMPLETED BY A CERTIFIED ARBORIST. AT THE COMPLETION OF THE PROJECT, THE ARBORIST IS TO RETURN AND TRIM ANY BROKEN BRANCHES AS NEEDED.

24. ANY MODIFICATION TO THE WORK SHOWN ON DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE CITY ENGINEER, CITY OF DUBLIN.

25. ALL INLETS SHALL BE CHANNELIZED.

26. PARK AREAS SHALL BE FINE-GRADED AND SEEDED WITH THE FOLLOWING MIXTURE:
    IMPROVED KENTUCKY BLUEGRASS: 40% OF WEIGHT (2 VARIETIES IN EQUAL PARTS)
    IMPROVED PERENNIAL RYE: 60% OF WEIGHT (2 VARIETIES IN EQUAL PARTS)
    GERMINATION RATE: 85%
    APPLICATION RATE: 7 LBS PER 1000 SQ FT OR AS DIRECTED BY THE DIVISION OF PARKS AND RECREATION, CITY OF DUBLIN, OHIO.

27. TRAFFIC CONTROL AND OTHER REGULATORY SIGNS SHALL BE TYPE S WITH A SQUARE POST ANCHOR BASE INSTALLATION AND MEET ALL REQUIREMENTS OF ODOT TC-41.20 AND APPLICABLE CITY OF DUBLIN SPECIFICATIONS.

28. STREET SIGNS SHALL MEET ALL CITY OF DUBLIN SPECIFICATIONS WITH LETTERING COLORED IN WHITE DISPLAYED OVER A BROWN BACKGROUND. SIGN TUBING SHALL BE BROWN IN COLOR AND CONFORM WITH THE TYPE S, SQUARE POST ANCHOR BASE INSTALLATION REQUIREMENTS OF ODOT TC-41.20.

UTILITIES

1. THE FOLLOWING UTILITIES ARE KNOWN TO BE LOCATED WITHIN THE LIMITS OF THIS PROJECT:

COLUMBIA GAS OF OHIO 290 W. NATIONWIDE BLVD COLUMBUS, OHIO 43215 1-800-440-6111	CITY OF COLUMBUS DIVISION OF POWER AND WATER (WATER) 910 DUBLIN ROAD, 2ND FLOOR COLUMBUS, OHIO 43215 (614) 6445-7677
AMERICAN ELECTRIC POWER ROBIN HAND ENGINEERING LIAISON COORDINATOR 850 TECH CENTER DRIVE GAHANNA, OHIO 43230-6605 (614) 883-6829	WIDE OPEN WEST KEN HOLDERFIELD ENGINEERING MANAGER 3675 CORPORATE DRIVE COLUMBUS, OHIO 43231 (614) 236-3922
CITY OF DUBLIN DIVISION OF ENGINEERING TODD GARWICK, P.E. 5800 SHIER RINGS ROAD DUBLIN, OHIO 43016 (614)410-4665	TIME WARNER CABLE KEVIN RICH 1266 DUBLIN ROAD COLUMBUS, OHIO 43215 (614) 481-5263

2. THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT TO OHIO UTILITIES PROTECTION SERVICE (TELEPHONE NUMBER 800-362-2764), PRODUCER'S UNDERGROUND PROTECTION SERVICE (TELEPHONE NUMBER 614-587-0486), AND TO OWNERS OF UNDERGROUND UTILITIES THAT ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE. NOTICE SHALL BE GIVEN AT LEAST 2 WORKING DAYS BEFORE START OF CONSTRUCTION.

3. THE IDENTITY AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE CITY OF DUBLIN AND THE CITY ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR DEPTHS OF UNDERGROUND FACILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF THE SAME AND FOR ANY RESULTING CONTINGENT DAMAGE.

4. LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

5. WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE CITY ENGINEER.

6. PUBLIC STREET LIGHTING MAY BE IN THE VICINITY OF THIS PROJECT. CONTACT THE CITY OF DUBLIN, DIVISION OF ENGINEERING AT 410-4637, TWO DAYS PRIOR TO BEGINNING WORK.

TRAFFIC CONTROL

1. TRAFFIC CONTROL SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR ACCORDING TO OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), CURRENT EDITION.

2. ALL TRAFFIC LANES OF PUBLIC ROADWAYS SHALL BE FULLY OPEN TO TRAFFIC FROM 7:00 AM TO 9:00 AM AND FROM 4:00 PM TO 6:00 PM UNLESS AUTHORIZED DIFFERENTLY BY THE CITY ENGINEER. AT ALL OTHER HOURS THE CONTRACTOR SHALL MAINTAIN MINIMUM ONE-LANE TWO-WAY TRAFFIC. UNIFORMED, OFF-DUTY POLICE OFFICERS SHALL REPLACE FLAGMEN DESIGNATED BY THE OMUTCD, AND SHALL BE PRESENT WHENEVER ONE-LANE, TWO-WAY TRAFFIC CONTROL IS IN EFFECT. POLICE CRUISERS MAY BE REQUIRED AS DIRECTED BY THE CITY ENGINEER.

3. IF THE CITY ENGINEER DETERMINES THAT THE CONTRACTOR IS NOT PROVIDING PROPER PROVISIONS FOR TRAFFIC CONTROL, THE CITY ENGINEER SHALL ASSIGN UNIFORMED, OFF-DUTY POLICE OFFICERS TO THE PROJECT AT NO COST TO THE CITY.

4. STEADY-BURNING, TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT.

5. ACCESS FROM PUBLIC ROADWAYS TO ALL ADJOINING PROPERTIES FOR EXISTING RESIDENTS OR BUSINESSES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT FOR MAIL, PUBLIC WATER AND SANITARY SEWER SERVICE, AND EMERGENCY VEHICLES. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN DETAILING THE PROPOSED MAINTENANCE OF TRAFFIC PROCEDURES. THE TRAFFIC CONTROL PLAN MUST INCORPORATE ANY TRAFFIC CONTROL DETAILS CONTAINED HEREIN. THE TRAFFIC CONTROL PLAN PROPOSED BY THE CONTRACTOR MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.

EROSION AND SEDIMENT CONTROL

1. THE CONTRACTOR OR DEVELOPER IS RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT (NOI) TO BE REVIEWED AND APPROVED BY THE OHIO EPA. THE NOI MUST BE SUBMITTED TO OEPA 45 DAYS PRIOR TO THE START OF CONSTRUCTION AND MAY ENTITLE COVERAGE UNDER THE OHIO EPA GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. A PROJECT LOCATION MAP MUST BE SUBMITTED WITH THE NOI. A SEDIMENT AND EROSION CONTROL PLAN MUST BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL IF A SEDIMENT AND EROSION CONTROL PLAN HAS NOT ALREADY BEEN INCLUDED WITH THE APPROVED CONSTRUCTION DRAWINGS. THIS PLAN MUST BE MADE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE DESIGN OF EROSION CONTROL SYSTEMS SHALL FOLLOW THE REQUIREMENTS OF OHIO EPA, ITEM 207 OF OHIO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND THE CITY ENGINEER. AN INDIVIDUAL NPDES STORMWATER DISCHARGE PERMIT MAY BE REQUIRED. THE CONTRACTOR SHALL BE CONSIDERED THE PERMITTEE.

2. THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE STORM WATER RUNOFF LEAVES THE PROJECT, INCLUDING WATERWAYS, OVERLAND SHEET FLOW, AND STORM SEWERS.

3. ACCEPTED METHODS OF PROVIDING EROSION/SEDIMENT CONTROL INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT BASINS, SILT FILTER FENCE, AGGREGATE CHECK DAMS, AND TEMPORARY GROUND COVER. HAY OR STRAW BALES ARE NOT PERMITTED.

4. THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE OF THE WORK AREA AT ALL TIMES CONSISTENT WITH EROSION CONTROL PRACTICES.

5. DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR 30 DAYS OR MORE SHALL BE SEEDED OR PROTECTED WITHIN SEVEN CALENDAR DAYS OF THE DISTURBANCE. OTHER SEDIMENT CONTROLS THAT ARE INSTALLED SHALL BE MAINTAINED UNTIL VEGETATIVE GROWTH HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT BEFORE GROWTH OF PERMANENT GROUND COVER.

USE OF BLASTING NOTE 1 DELETED

SANITARY SEWERS

1. CONNECTIONS TO THE SANITARY SEWER WILL BE PERMITTED UPON RECEIVING AN OEPA PERMIT TO INSTALL (PTI), AND UPON RECEIVING A SATISFACTORY LETTER FROM THE DESIGN ENGINEER STATING THAT THE PROJECT HAS BEEN CONSTRUCTED AS PER THE PLANS, AND ALL OF THE CONDITIONS OF THE PTI HAVE BEEN MET. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING ALL REQUIRED OHIO EPA APPROVALS AND PAYING REVIEW FEES.

2. SANITARY SEWAGE COLLECTION SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RULES, REGULATIONS, STANDARDS AND SPECIFICATIONS OF THE CITY OF DUBLIN, OHIO EPA, OHIO DEPARTMENT OF HEALTH AND THE CURRENT EDITION OF THE GREAT LAKES-UPPER MISSISSIPPI RIVER BOARD (TEN STATES) - RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES.

3. THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPE WITH DIAMETERS 15 INCHES AND SMALLER SHALL BE REINFORCED CONCRETE PIPE ASTM C76 CLASS 3, OR PVC SEWER PIPE ASTM D3034, SDR 35. PIPE FOR 6-INCH DIAMETER HOUSE SERVICE LINES SHALL BE PVC PIPE ASTM D3034, SDR 35. PVC PIPE SHALL NOT BE USED AT DEPTHS GREATER THAN 28 FEET. PIPE MATERIALS AND RELATED STRUCTURES SHALL BE SHOP TESTED IN ACCORDANCE WITH CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION QUALITY CONTROL REQUIREMENTS.

4. THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPES WITH DIAMETERS GREATER THAN 15 INCHES SHALL BE REINFORCED CONCRETE PIPE ASTM C76 WITH CLASS DESIGNATION SPECIFIED IN THE APPROVED CONSTRUCTION DRAWINGS.

5. ALL IN-LINE WYE AND TEE CONNECTIONS IN CONCRETE SEWERS, 18-INCH DIAMETER AND LARGER, SHALL BE EITHER KOR-N-TEE OR KOR-N-SEAL CONNECTIONS CONFORMING TO THE MANUFACTURER'S RECOMMENDATIONS.

6. GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 636, TYPE III OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER.

7. ALL MANHOLE LIDS SHALL BE PROVIDED WITH CONTINUOUS SELF-SEALING GASKETS. THE APPROVED CONSTRUCTION DRAWINGS SHALL SHOW WHERE BOLT-DOWN LIDS ARE REQUIRED. SANITARY SEWER MANHOLES SHALL BE PRECAST CONCRETE OR AS APPROVED BY THE CITY ENGINEER AND CONFORM TO THE CITY OF DUBLIN SANITARY MANHOLE STANDARD DRAWING. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO.

8. ALL PVC SEWER PIPES SHALL BE DEFLECTION TESTED NO LESS THAN 60 DAYS AFTER COMPLETION OF BACKFILLING OPERATIONS. ALL OTHER REQUIREMENTS SHALL BE ACCORDING TO ITEM 901.21 OF THE STANDARD SPECIFICATIONS.

9. TEMPORARY BULKHEADS SHALL BE PLACED IN PIPES AT LOCATIONS SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AND SHALL REMAIN IN PLACE UNTIL THE PERMIT TO INSTALL (PTI) HAS BEEN ISSUED BY THE OEPA AND THE SEWERS HAVE BEEN APPROVED FOR USE BY THE CITY ENGINEER. THE COST FOR FURNISHING, INSTALLING, MAINTAINING, AND REMOVING BULKHEADS SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE FOR THE VARIOUS SANITARY SEWER ITEMS.

10. ALL SANITARY SEWERS INCLUDING SANITARY SEWER SERVICE LINES SHALL BE SUBJECTED TO AND PASS INFILTRATION OR EXFILTRATION TESTS ACCORDING TO ITEM 901 OF THE STANDARD SPECIFICATIONS AND MUST BE APPROVED FOR USE BY THE CITY ENGINEER BEFORE ANY SERVICE CONNECTIONS ARE TAPPED INTO SEWERS.

11. FOR SANITARY SEWER INFILTRATION, LEAKAGE THROUGH JOINTS SHALL NOT EXCEED 100 GALLONS PER INCH OF TRIBUTARY SEWER DIAMETER PER 24 HOURS PER MILE OF LENGTH OR THE COMPUTED EQUIVALENT. ALL SANITARY SEWERS SHALL BE TESTED.

12. AT THE DETERMINATION OF THE CITY ENGINEER, THE CONTRACTOR MAY BE REQUIRED TO PERFORM A TV INSPECTION OF THE SANITARY SEWER SYSTEM PRIOR TO FINAL ACCEPTANCE BY THE CITY. THIS WORK SHALL BE COMPLETED BY THE CONTRACTOR AT HIS EXPENSE.

13. VISIBLE LEAKS OR OTHER DEFECTS OBSERVED OR DISCOVERED DURING TV INSPECTION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.

14. ROOF DRAINS, FOUNDATION DRAINS, FIELD TILE OR OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE STRICTLY PROHIBITED ACCORDING TO SECTION 51.23 OF THE DUBLIN CODE OF ORDINANCES.

15. ALL WATER LINES SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY AND 18 INCHES VERTICALLY, FROM SANITARY SEWERS AND STORM SEWERS, TO THE GREATEST EXTENT PRACTICABLE. WHERE SANITARY SEWERS CROSS WATER MAINS OR OTHER SEWERS OR OTHER UTILITIES, TRENCH BACKFILL SHALL BE PLACED BETWEEN THE PIPES CROSSING AND SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS. IN THE EVENT THAT A WATER LINE MUST CROSS WITHIN 18 INCHES OF A SANITARY SEWER, THE SANITARY SEWER SHALL BE CONCRETE ENCASED OR CONSIST OF DUCTILE IRON PIPE MATERIAL.

16. SERVICE RISERS SHALL BE INSTALLED WHERE THE DEPTH FROM WYES TO PROPOSED GROUND ELEVATION EXCEEDS 10 FEET. TOPS OF RISERS SHALL BE NO LESS THAN 9 FEET BELOW PROPOSED GROUND ELEVATION IF BASEMENT SERVICE IS INTENDED.

17. WHERE SERVICE RISERS ARE NOT INSTALLED, A MINIMUM 5-FOOT LENGTH OF SANITARY SEWER SERVICE PIPE OF THE SAME SIZE AS THE WYE OPENING SHALL BE INSTALLED.

18. THE CONTRACTOR SHALL FURNISH AND PLACE, AS DIRECTED, APPROVED WYE POLES MADE OF 2 INCHES X 2 INCHES LUMBER AT ALL WYE LOCATIONS, ENDS OF EXTENDED SERVICES, OR AT THE END OF EACH RISER WHERE RISERS ARE REQUIRED. WYE POLES SHALL BE VISIBLE BEFORE ACCEPTANCE BY THE CITY. THE COST OF THESE POLES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS SEWER ITEMS.

19. EXISTING SANITARY SEWER FLOWS SHALL BE MAINTAINED AT ALL TIMES. COSTS FOR PUMPING AND BYPASSING SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE BID FOR THE RELATED ITEMS.

20. THE CONTRACTOR SHALL FURNISH ALL MATERIAL, EQUIPMENT, AND LABOR TO MAKE CONNECTIONS TO EXISTING MANHOLES. THE SEWER PIPE TO MANHOLE CONNECTIONS FOR ALL SANITARY SEWERS SHALL BE FLEXIBLE AND WATERTIGHT. ALL HOLES SHALL BE NEATLY CORED. THE SEWER PIPE BARREL AT THE SPRINGLINE SHALL NOT EXTEND MORE THAN 1 INCH BEYOND THE INSIDE FACE OF THE MANHOLE. TO MAINTAIN FLEXIBILITY IN THE CONNECTION, A 1-INCH SPACE SHALL BE LEFT BETWEEN THE END OF THE PIPE INSIDE THE MANHOLE AND THE CONCRETE CHANNEL; THIS SPACE SHALL BE FILLED WITH A WATERPROOF FLEXIBLE JOINT FILLER. ANY METAL THAT IS USED SHALL BE TYPE 300 SERIES STAINLESS STEEL. THE CONNECTION MAY BE ANY OF THE FOLLOWING TYPES:
    A. RUBBER SLEEVE WITH STAINLESS STEEL BANDING.
        1) KOR-N-SEAL AS MANUFACTURED BY NATIONAL POLLUTION CONTROL SYSTEMS, INC.
        2) LOCK JOINT FLEXIBLE MANHOLE SLEEVE AS MANUFACTURED BY INTERPACE CORPORATION.
        3) OR EQUAL AS APPROVED BY THE CITY ENGINEER.
    B. RUBBER GASKET COMPRESSION.
        1) PRESS WEDGE II AS MANUFACTURED BY PRESS-SEAL GASKET CORPORATION.
        2) DURA SEAL III AS MANUFACTURED BY DURA TECH, INC.
        3) LINK-SEAL AS MANUFACTURED BY THUNDERLINE CORPORATION.
        4) OR EQUAL AS APPROVED BY THE CITY ENGINEER.
    THE COST FOR THIS WORK ALONG WITH A NEW CHANNELIZED BASE FOR THE MANHOLE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE RELATED ITEMS OF WORK.

WATER LINE

1. ALL WATER LINE MATERIALS SHALL BE PROVIDED AND INSTALLED ACCORDING TO CURRENT SPECIFICATIONS OF THE CITY OF COLUMBUS DIVISION OF WATER.

2. ALL PUBLIC WATER PIPE WITH A DIAMETER 3 INCHES TO 8 INCHES SHALL BE DUCTILE IRON, CLASS 53. PUBLIC WATER PIPE 12 INCHES IN DIAMETER OR LARGER SHALL BE DUCTILE IRON, CLASS 54. PUBLIC WATER PIPE 20 INCHES IN DIAMETER OR LARGER MAY BE PRESTRESSED CONCRETE PIPE. PRIVATE WATER PIPE SHALL MEET THE APPROVAL OF THE CITY OF COLUMBUS DIVISION OF WATER PRIOR TO APPROVAL OF THE CONSTRUCTION DRAWINGS.

3. ONLY FIRE HYDRANTS CONFORMING TO CITY OF COLUMBUS STANDARDS WILL BE APPROVED FOR USE.

4. PUBLIC WATER LINES SHALL BE DISINFECTED BY THE CITY OF COLUMBUS DIVISION OF WATER. REQUESTS FOR WATER LINE CHLORINATION SHALL BE MADE THROUGH THE CITY OF DUBLIN DIVISION OF ENGINEERING. THE COST FOR CHLORINATION SHALL BE PAID FOR BY THE CONTRACTOR.

5. ALL WATER LINES SHALL BE DISINFECTED ACCORDING TO ITEM 801.13 OF THE STANDARD SPECIFICATIONS. SPECIAL ATTENTION IS DIRECTED TO APPLICABLE SECTIONS OF AMERICAN WATER WORKS ASSOCIATION SPECIFICATION C-651, PARTICULARLY FOR FLUSHING (SECTION 5) AND FOR CHLORINATING VALVES AND FIRE HYDRANTS (SECTION 7). PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 801.12 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS. WHEN WATER LINES ARE READY FOR DISINFECTION, THE CITY OF DUBLIN SHALL SUBMIT TWO (2) SETS OF "AS-BUILT" PLANS, AND A LETTER STATING THAT THE WATER LINES HAVE BEEN PRESSURE TESTED AND NEED TO BE DISINFECTED, TO THE CITY OF COLUMBUS, DIVISION OF WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE DISINFECTION OF ALL WATER LINES CONSTRUCTION PER THIS PLAN. PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 801.12 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS.

6. THE CONTRACTOR SHALL PAINT ALL FIRE HYDRANTS ACCORDING TO CITY OF DUBLIN STANDARDS. THE COST OF PAINTING FIRE HYDRANTS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR FIRE HYDRANTS.

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REVISIONS:
01/04/2016 - REVISIONS PER CITY OF DUBLIN COMMENTS

DATE	PROJ.NUMBER	ENG	PROJ.MGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	H:	SCALE V:	HORIZ DATUM	VERT DATUM
	6481150010	SEH	DSM	SEH	DELAWARE	DUBLIN				

DEER RUN LAND, LLC
DEER RUN - SUBAREA B FINAL DEVELOPMENT PLAN
GENERAL NOTES

SHEET 2 OF <>

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WATER LINE (CONTINUED)

7. NO WATER TAPS OR SERVICE CONNECTIONS (E.G., TO CURB STOPS OR METER PITS) MAY BE ISSUED UNTIL ADJACENT PUBLIC WATER LINES SERVING THE CONSTRUCTION SITE HAVE BEEN DISINFECTED BY THE CITY OF COLUMBUS DIVISION OF WATER AND HAVE BEEN ACCEPTED BY THE CITY ENGINEER. A TAP PERMIT FOR EACH WATER SERVICE MUST BE OBTAINED FROM THE CITY OF DUBLIN AND THE CITY OF COLUMBUS DIVISION OF WATER BEFORE MAKING ANY TAPS INTO PUBLIC WATER LINES.

8. THE CONTRACTOR SHALL NOTIFY THE CITY OF COLUMBUS DIVISION OF WATER AT 645-7788 AND THE CITY OF DUBLIN DIVISION OF ENGINEERING AT LEAST 24 HOURS BEFORE TAPPING INTO EXISTING WATER LINES.

9. ALL WATER MAIN STATIONING SHALL BE BASED ON STREET CENTERLINE STATIONING.

10. ALL BENDS, JOINT DEFLECTIONS AND FITTINGS SHALL BE BACKED WITH CONCRETE PER CITY OF COLUMBUS STANDARDS.

11. THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ALL AFFECTED PROPERTY OWNERS AT LEAST 1 WORKING DAY BUT NOT MORE THAN 3 WORKING DAYS PRIOR TO ANY TEMPORARY INTERRUPTION OF WATER SERVICE. INTERRUPTION OF WATER SERVICE SHALL BE MINIMIZED AND MUST BE APPROVED BY THE CITY ENGINEER.

12. WATER METERS SHALL BE INSTALLED INSIDE PROPOSED STRUCTURES UNLESS A METER PIT INSTALLATION IS APPROVED BY THE CITY OF COLUMBUS DIVISION OF WATER. METER PITS MUST CONFORM TO STANDARD DRAWINGS L-7103, A&B FOR 5/8" THROUGH 1" METERS OR L-6317, A, B, C&D FOR 1-1/2" OR LARGER METERS.

13. WATER LINES TO BE INSTALLED IN EMBANKMENT AREAS SHALL BE PLACED AFTER THE EMBANKMENT HAS BEEN PLACED AND COMPACTED ACCORDING TO THE STANDARD SPECIFICATIONS.

14. CURB STOP BOXES SHALL BE LOCATED AT LEAST 1 FOOT INSIDE THE RIGHT-OF-WAY AND SET AT FINISHED GRADE.

15. IF THE TOP OF THE OPERATING NUT OF ANY VALVE IS GREATER THAN 36 INCHES BELOW FINISHED GRADE, AN EXTENSION STEM SHALL BE FURNISHED TO BRING THE TOP OF THE OPERATING NUT TO WITHIN 24 INCHES OF FINISHED GRADE ELEVATION.

16. ALL WATER LINES SHALL BE PLACED AT A MINIMUM DEPTH OF 4 FEET MEASURED FROM TOP OF FINISHED GRADE TO TOP OF WATER LINE. WATER LINES SHALL BE SET DEEPER AT ALL POINTS WHERE NECESSARY TO CLEAR EXISTING OR PROPOSED UTILITY LINES OR OTHER UNDERGROUND RESTRICTIONS BY A MINIMUM OF 18 INCHES.

17. TWO ¾ INCH TAPS SHALL BE INSTALLED WITHIN 2 FEET OF THE END OF THE LINE ON ALL DEAD-END WATER LINES.

STORM SEWERS

1. ALL STORM WATER DETENTION AND RETENTION AREAS AND MAJOR FLOOD ROUTING SWALES SHALL BE CONSTRUCTED TO FINISH GRADE AND HYDRO-SEEDED AND HYDRO-MULCHED ACCORDING TO ITEMS 203 AND 659 OF THE STANDARD SPECIFICATIONS.

2. WHERE PRIVATE STORM SEWERS CONNECT TO PUBLIC STORM SEWERS, THE LAST RUN OF PRIVATE STORM SEWER CONNECTING TO THE PUBLIC STORM SEWER SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C76, WALL B, CLASS IV FOR PIPE DIAMETERS 12 INCHES TO 15 INCHES, CLASS III FOR 18 INCHES TO 24 INCH PIPES, AND 27 INCHES AND LARGER PIPE SHALL BE CLASS II, UNLESS OTHERWISE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. INSPECTION IS REQUIRED BY THE CITY OF DUBLIN'S DIVISION OF ENGINEERING.

3. GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 636, TYPE III OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER.

4. ALL STORM SEWERS SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C76, WALL B, CLASS IV FOR PIPE DIAMETERS 12 INCHES TO 15 INCHES, CLASS III FOR 18 INCHES TO 24 INCH PIPES, AND 27 INCHES AND LARGER PIPE SHALL BE CLASS II, UNLESS OTHERWISE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS.

5. HEADWALLS AND ENDWALLS SHALL BE REQUIRED AT ALL STORM SEWER INLETS OR OUTLETS TO AND FROM STORMWATER MANAGEMENT FACILITIES. NATURAL STONE AND/OR BRICK APPROVED BY THE CITY ENGINEER SHALL BE PROVIDED ON ALL VISIBLE HEADWALLS AND/OR ENDWALLS SURFACES.

6. STORM INLETS OR CATCH BASINS SHALL BE CHANNELIZED AND HAVE BICYCLE SAFE GRATES. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO AND ALL CURB INLET AND CATCH BASIN GRATES SHALL INCLUDE ENGRAVED LETTERING: "DUMP NO WASTE; DRAINS TO RIVER."

7. STORM SEWER OUTLETS GREATER THAN 18 INCHES IN DIAMETER ACCESSIBLE FROM STORMWATER MANAGEMENT FACILITIES OR WATERCOURSES SHALL BE PROVIDED WITH SAFETY GRATES, AS APPROVED BY THE CITY ENGINEER.

MAIL DELIVERY

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT US MAIL DELIVERY WITHIN THE PROJECT LIMITS IS NOT DISRUPTED BY CONSTRUCTION OPERATIONS. THIS RESPONSIBILITY IS LIMITED TO RELOCATION OF MAILBOXES TO A TEMPORARY LOCATION THAT WILL ALLOW THE COMPLETION OF THE WORK AND SHALL ALSO INCLUDE THE RESTORATION OF MAILBOXES TO THEIR ORIGINAL LOCATION OR APPROVED NEW LOCATION. ANY RELOCATION OF MAILBOX SERVICES MUST BE FIRST COORDINATED WITH THE US POSTAL SERVICE AND THE HOMEOWNER.

2. BEFORE RELOCATING ANY MAILBOXES, THE CONTRACTOR SHALL CONTACT THE U.S. POSTAL SERVICE AND RELOCATE MAILBOXES ACCORDING TO THE REQUIREMENTS OF THE POSTAL SERVICE.

USE OF FIRE HYDRANTS

1. THE CONTRACTOR SHALL MAKE PROPER ARRANGEMENTS WITH THE DUBLIN SERVICE DEPARTMENT AND THE COLUMBUS DIVISION OF WATER FOR THE USE OF FIRE HYDRANTS WHEN USED FOR WORK PERFORMED UNDER THIS CONTRACT AND PROVIDE THE CITY OF DUBLIN A COPY OF THE HYDRANT USAGE PERMIT OBTAINED FROM THE CITY OF COLUMBUS. THE CONTRACTOR SHALL ALSO SEND A COPIES OF PERMITS OBTAINED FROM DUBLIN AND COLUMBUS TO THE WASHINGTON AND/OR PERRY TOWNSHIP FIRE DEPARTMENT. PERMITS SHALL BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.

2. BEFORE THE FINAL ESTIMATE IS PAID, THE CONTRACTOR SHALL SUBMIT A LETTER FROM THE CITY OF COLUMBUS DIVISION OF WATER TO THE CITY ENGINEER STATING THAT THE CONTRACTOR HAS RETURNED THE SIAMESE VALVE TO THE CITY OF COLUMBUS AND HAS PAID ALL COSTS ARISING FROM THE USE OF THE FIRE HYDRANTS.

CITY OF COLUMBUS WATERLINE NOTES

1. FOR ANY EMERGENCIES INVOLVING THE WATER DISTRIBUTION SYSTEM, PLEASE CONTACT THE DIVISION OF WATER DISTRIBUTION MAINTENANCE OFFICE AT 614-645-7788.

2. ALL BRASS FITTINGS ASSOCIATED WITH WATER WORK, INCLUDING REPAIRS TO THE EXISTING SYSTEM, SHALL CONFORM TO THE REVISED ALLOWABLE LEAD EXTRACTION LIMIT PER THE UPDATED NSF/ANSI 61 STANDARD. THE DIVISION OF WATER'S APPROVED MATERIALS LIST HAS BEEN UPDATED TO REFLECT THIS REQUIREMENT.

3. IT SHALL BE UNLAWFUL FOR ANY PERSON TO PERFORM ANY WORK ON CITY OF COLUMBUS WATER LINE SYSTEMS WITHOUT FIRST SECURING LICENSE TO ENGAGE IN SUCH WORK, AS INDICATED IN COLUMBUS CITY CODE SECTION 1103.02 AND 1103.06. THIS WORK INCLUDES ANY ATTACHMENTS, ADDITIONS TO OR ALTERATIONS IN ANY CITY SERVICE PIPE OR APPURTENANCES (INCLUDING WATER SERVICE LINES AND TAPS). THIS REQUIREMENT MAY BE MET BY UTILIZATION OF A SUBCONTRACTOR WHO HOLDS A CITY OF COLUMBUS WATER CONTRACTOR LICENSE OR A COMBINED WATER/SEWER CONTRACTOR LICENSE TO PERFORM THIS WORK. UTILIZATION OF A SUBCONTRACTOR MUST MEET THE LICENSING REQUIREMENTS OF CITY OF COLUMBUS BUILDING CODE, IN PARTICULAR SECTION 4114.119 AND 4114.529.

4. NO PERSON SHALL BEGIN CONSTRUCTION OR INSTALLATION OF A PUBLIC WATER MAIN UNTIL PLANS HAVE BEEN APPROVED BY THE STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA).

5. THE CONTRACTOR SHALL OBTAIN THE PROPER HYDRANT PERMIT(S), AND PAY ANY APPLICABLE FEES, FOR ANY APPROVED HYDRANT USAGE DEEMED NECESSARY FOR WORK UNDER THIS IMPROVEMENT. PERMITS MAY BE OBTAINED THROUGH THE DIVISION OF WATER PERMIT OFFICE (645-7330). THE CONTRACTOR SHALL ADHERE TO ALL RULES & REGULATIONS GOVERNING SAID PERMIT AND MUST HAVE THE ORIGINAL PERMIT ON SITE ANYTIME IN WHICH THE HYDRANT IS IN USE. COST TO BE INCLUDED IN THE VARIOUS BID ITEMS.

6. ALL WATER MAINS SHALL BE CLEANED AND FLUSHED, AND ANY WATER MAIN 12-INCH AND LARGER MUST BE PROPERLY PIGGED, IN ACCORDANCE WITH SECTION 801.13 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS.

7. ALL WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH SECTION 801.14 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, WITH THE FOLLOWING EXCEPTION: 150 PSI OF PRESSURE SHALL BE MAINTAINED FOR AT LEAST TWO HOURS IN ANY TESTED SECTION. THE CITY MAY NOT APPROVE ANY TEST LASTING LESS THAN TWO HOURS REGARDLESS OF THE AMOUNT OF LEAKAGE.

8. ONLY ONE CONNECTION TO AN EXISTING WATER LINE IS PERMITTED BEFORE DISINFECTION OF A NEW WATER LINE HAS BEEN COMPLETED. ALL OTHER CONNECTIONS MUST BE MADE AFTER THE LINE HAS BEEN DISINFECTED.

9. WHERE INDICATED ON THE PLANS, THE EXISTING WATER MAIN SHALL BE ABANDONED; AND ANY EXISTING WATER SERVICES OFF THIS MAIN SHALL BE TRANSFERRED TO THE NEW WATER MAIN. PRIOR TO ABANDONMENT OF THE EXISTING WATER MAIN, THE PROPOSED WATER MAIN SHALL BE PIGGED (IF REQUIRED), TESTED, CHLORINATED AND PUT IN SERVICE AND THEN THE EXISTING WATER SERVICES SHALL BE TRANSFERRED. THE CONTRACTOR SHALL MAINTAIN WATER SERVICES TO ALL PROPERTIES DURING CONSTRUCTION OF THE NEW WATER MAIN AND SHALL NOTIFY ALL CUSTOMERS AFFECTED BY THE TRANSFER OF SERVICES. TO ENSURE THAT ALL EXISTING SERVICES ARE TRANSFERRED TO THE NEW MAIN, NO WATER MAIN SHALL BE ABANDONED UNTIL THE NEW WATER MAIN HAS BEEN PUT IN SERVICE; ALL AFFECTED WATER SERVICES HAVE BEEN TRANSFERRED; AND THE EXISTING WATER MAIN TO BE ABANDONED HAS BEEN SHUT DOWN FOR 24 HOURS. ALL VISIBLE VALVE BOXES, FIRE HYDRANTS, AND SERVICE BOXES ON THE WATER MAIN TO BE ABANDONED, WHICH WILL NO LONGER BE IN SERVICE, SHALL BE REMOVED. ALL WATER MAINS TO BE ABANDONED SHALL BE MADE WATER TIGHT. THE REQUIRED SURFACE RESTORATION SHALL BE PAID FOR UNDER THE APPROPRIATE BID ITEM(S).

10. WATER SERVICE BOXES SHALL BE PLACED 1' FROM THE EDGE OF THE PROPOSED OR EXISTING SIDEWALK BETWEEN THE SIDEWALK AND THE CURB, OR 2 FEET INSIDE THE RIGHT-OF-WAY OR EASEMENT LINE WHEN NO SIDEWALK IS PRESENT OR PROPOSED. REFER TO STANDARD DRAWING L-9901 FOR ADDITIONAL INFORMATION.

11. MAINTAIN EIGHTEEN (18) INCHES VERTICAL AND TEN (10) FEET HORIZONTAL SEPARATION BETWEEN ANY SANITARY OR STORM SEWER PIPING AND ALL PROPOSED WATER MAINS.

12. WHEN CONTROLLED DENSITY FILL (ITEM 613) IS TO BE USED AS BACKFILL, THE CONTRACTOR SHALL PROVIDE SIZE NO. 57 CRUSHED CARBONATE STONE (CCS) 1 FOOT BELOW TO 1 FOOT ABOVE THE EXISTING WATER LINE.

13. "SURVEY COORDINATES" SHALL INCLUDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO OBTAIN HORIZONTAL AND VERTICAL (NORTHING, EASTING, AND ELEVATION) SURVEY COORDINATES FOR THE WATER MAIN IMPROVEMENTS. THE SURVEY COORDINATES SHALL BE OBTAINED FOR THE COMPLETED WATER MAIN CONSTRUCTION AND SHALL INCLUDE ALL VALVES, TEES, CROSSES, BENDS, DEFLECTIONS, PLUGS, REDUCERS, TAPPING SLEEVES, BLOW OFFS, CHLORINATION TAPS, FIRE HYDRANTS, AIR RELEASES, CURB STOPS, CASING PIPE TERMINI, AND OTHER FITTINGS. ADDITIONAL SURVEY COORDINATES ARE REQUIRED ON THE WATER MAIN EVERY 500' WHERE NO FITTING OR OTHER WATER MAIN STRUCTURE IS BEING INSTALLED WITHIN THAT LENGTH OF THE IMPROVEMENT.

    ALL SURVEY COORDINATES SHALL BE REFERENCED TO THE APPLICABLE COUNTY ENGINEER'S MONUMENTS, AND SHALL BE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83) WITH THE (NSRS2007) ADJUSTMENT, WITH FURTHER REFERENCE MADE TO THE OHIO STATE PLANE SOUTH COORDINATE SYSTEM, SOUTH ZONE, WITH ELEVATIONS BASED ON NAVD 88 DATUM. ALL COORDINATES (NORTHING, EASTING, ELEVATION) SHALL BE REFERENCED TO THE NEAREST HUNDREDTH (N XXXXXX.XX, E XXXXXX.XX, ELEV. XXX.XX). ALL SURVEY COORDINATES SHALL BE ACCURATE TO WITHIN 1.0 FOOT HORIZONTAL AND A TENTH OF A FOOT (0.10) OR LESS VERTICAL.

    THE COORDINATES SHALL BE DOCUMENTED TO THE MUNICIPALITY ENGINEER OR DESIGNATED REPRESENTATIVE IN DIGITAL SPREADSHEET FORM AND SHALL INCLUDE THE APPLICABLE ITEM, STATION, NORTHING, EASTING, AND ELEVATION. COORDINATES SHALL BE SUBMITTED TO THE MUNICIPALITY ENGINEER OR DESIGNATED REPRESENTATIVE ON A BIWEEKLY BASIS. COORDINATES SHALL ALSO BE REQUIRED TO BE SUBMITTED TO THE DIVISION OF WATER AS PART OF THE REQUEST FOR CHLORINATION.

    LUMP SUM PAYMENT IS FULL COMPENSATION FOR ALL WORK INVOLVED IN OBTAINING AND DOCUMENTING THE SURVEY COORDINATES AS DESCRIBED IN THIS SPECIFICATION.

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	648150010	SEH	DSM	SEH	DELAWARE	DUBLIN	H:	V:	

DEER RUN LAND, LLC
DEER RUN - SUBAREA B FINAL DEVELOPMENT PLAN

GENERAL NOTES

SHEET 3 OF 3

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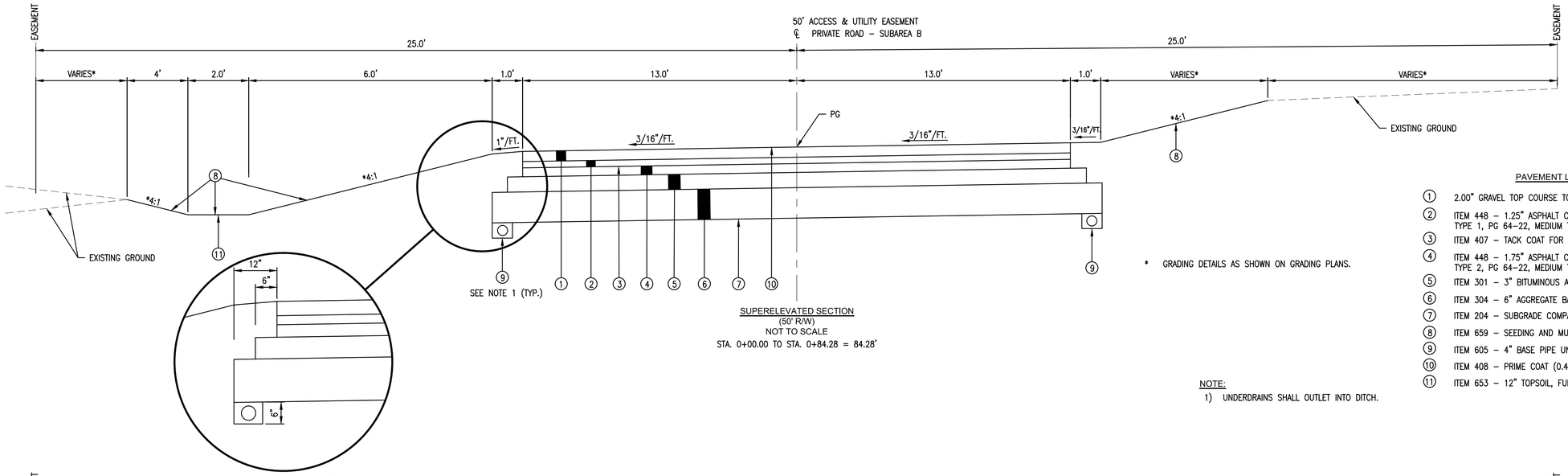


SUPERELEVATED SECTION
(50' R/W)
NOT TO SCALE
STA. 0+00.00 TO STA. 0+84.28 = 84.28'

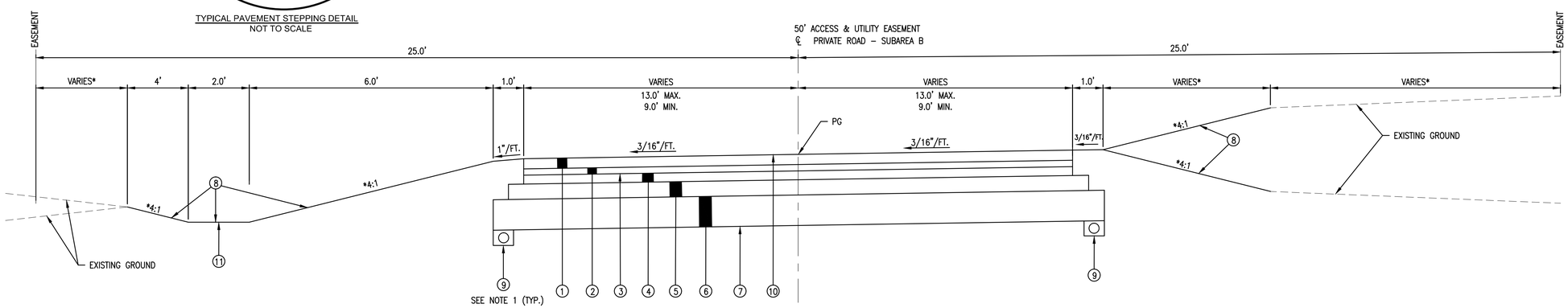
TYPICAL PAVEMENT STEPPING DETAIL
NOT TO SCALE

* GRADING DETAILS AS SHOWN ON GRADING PLANS.

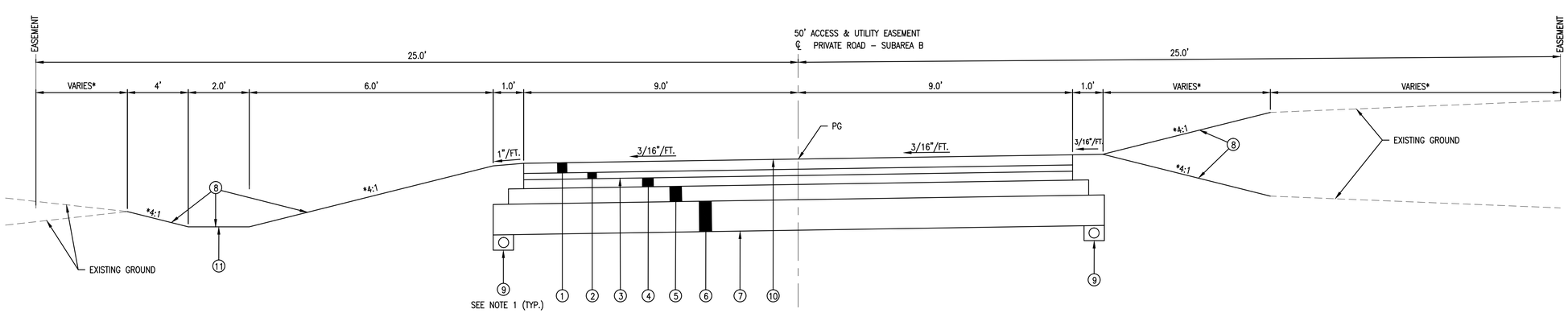
NOTE:
1) UNDERDRAINS SHALL OUTLET INTO DITCH.

PAVEMENT LEGEND

1. 2.00" GRAVEL TOP COURSE TO MATCH EXISTING ROAD
2. ITEM 448 – 1.25" ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, PG 64–22, MEDIUM TRAFFIC
3. ITEM 407 – TACK COAT FOR INTERMEDIATE COURSE (0.04 GAL/SQ. YD.)
4. ITEM 448 – 1.75" ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2, PG 64–22, MEDIUM TRAFFIC
5. ITEM 301 – 3" BITUMINOUS AGGREGATE BASE COURSE
6. ITEM 304 – 6" AGGREGATE BASE
7. ITEM 204 – SUBGRADE COMPACTION
8. ITEM 659 – SEEDING AND MULCHING
9. ITEM 605 – 4" BASE PIPE UNDERDRAINS
10. ITEM 408 – PRIME COAT (0.4 GAL/SQ. YD.)
11. ITEM 653 – 12" TOPSOIL, FURNISHED AND PLACED



TRANSITIONING SUPERELEVATED VARIABLE WIDTH SECTION
(50' R/W)
NOT TO SCALE
STA. 0+84.28 TO STA. 1+34.28 = 50.00'



NORMAL SUPERELEVATED SECTION
(50' R/W)
NOT TO SCALE
STA. 1+34.28 TO STA. 11+52.81 = 1018.53'

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	648150010	SEH	DSM	SEH	DELAWARE	DUBLIN	H:		V:

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TYPICAL SECTIONS

SHEET 4 OF 31

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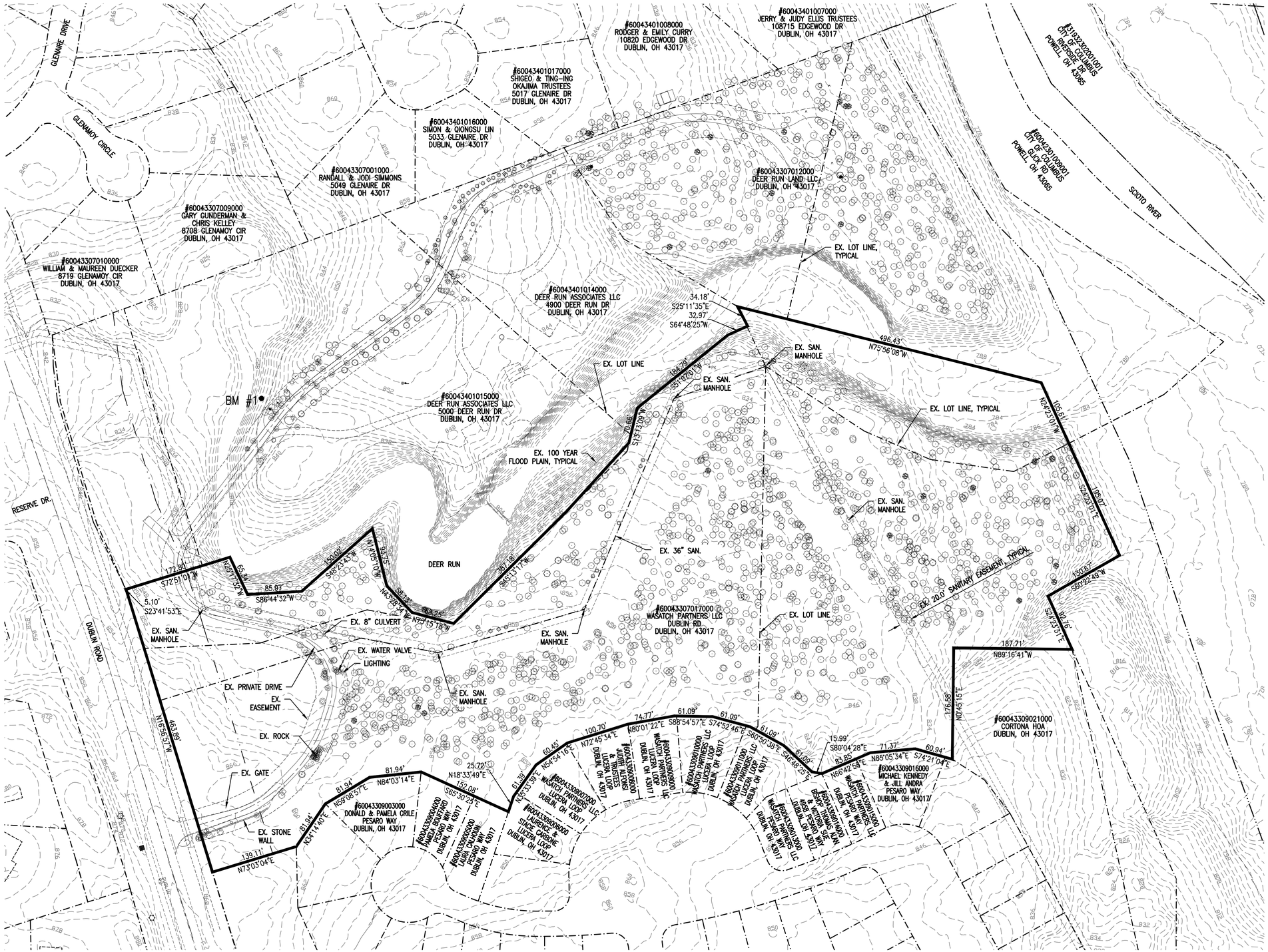
SUBAREA B

SCALE: 1"=80'



N

0 80 160 FEET

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	648150010	SEH	DSM	SEH	DELAWARE	DUBLIN	H:	V:	

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EXISTING CONDITIONS - SUBAREA B

SHEET 6 OF 32

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SUBAREA B

SCALE: 1"=40'

N

0 40 80 FEET

LEGEND

- EX. DECIDUOUS TREE
- EX. CONIFEROUS TREE
- EX. DEAD TREE
- EX. DECIDUOUS SHRUB
- TREE PROTECTION FENCE (SEE DETAIL 1 ON THIS SHEET)
- PROP. TREE PRESERVATION AREA (DO NOT DISTURB)

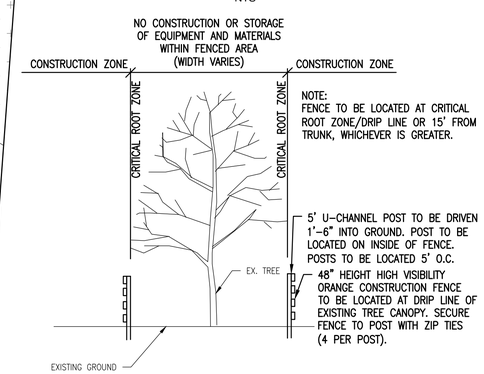
TREE REMOVAL AND REPLACEMENT FOR INDIVIDUAL LOTS WILL BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL AT THE TIME OF FINAL LOT DESIGN.

TREE PROTECTION NOTES

1. ALL TREES WITHIN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED, WHETHER SHOWN OR NOT SHOWN ON THE CONSTRUCTION DRAWINGS.
2. TREES TO BE PRESERVED SHALL BE PROTECTED WITH HIGH VISIBILITY FENCING PLACED A MINIMUM OF 15 FEET FROM THE TREE TRUNK. TREES WITH DIAMETER BREAST HEIGHT OF 6 INCHES OR GREATER MUST BE PROTECTED WITH FENCING PLACED AT THE CRITICAL ROOT ZONE OR 15 FEET, WHICHEVER IS GREATER.
3. TREES NOT INDICATED ON THE APPROVED CONSTRUCTION DRAWINGS FOR REMOVAL MAY NOT BE REMOVED WITHOUT PRIOR APPROVAL OF THE DIVISION OF ENGINEERING.
4. CONTACT CITY OF DUBLIN PLANNING DEPARTMENT 614-610-4600 FOR A TREE PROTECTION INSPECTION PRIOR TO BEGINNING ANY SITEWORK.

DETAIL 1: TREE PROTECTION FENCE

NTS



NOTE:
FENCE TO BE LOCATED AT CRITICAL ROOT ZONE/DRIP LINE OR 15' FROM TRUNK, WHICHEVER IS GREATER.

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	648115010	SEH	DSM	SEH	DELAWARE	DUBLIN	H:	V:	

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TREE PRESERVATION & REMOVAL PLAN - SUBAREA B

SHEET 6 OF 31

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SUBAREA B

SCALE: 1"=40'

N

0 40 80 FEET

LEGEND

- EX. DECIDUOUS TREE
- EX. CONIFEROUS TREE
- EX. DEAD TREE
- EX. DECIDUOUS SHRUB
- TREE PROTECTION FENCE (SEE DETAIL 1 ON THIS SHEET)
- PROP. TREE PRESERVATION AREA (DO NOT DISTURB)

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3. TREES NOT INDICATED ON THE APPROVED CONSTRUCTION DRAWINGS FOR REMOVAL MAY NOT BE REMOVED WITHOUT PRIOR APPROVAL OF THE DIVISION OF ENGINEERING.
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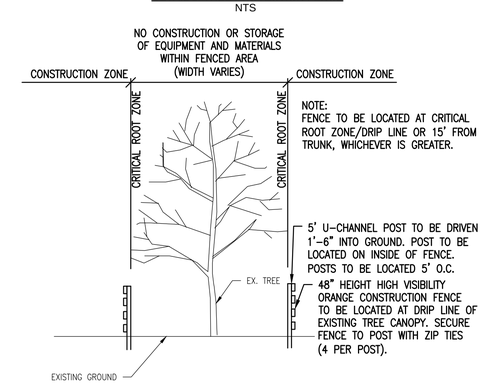
DETAIL 1: TREE PROTECTION FENCE

NTS



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	6481150010	SEH	DSM	SEH	DELAWARE	DUBLIN	H:	V:	

DEER RUN LAND, LLC

DEER RUN - SUBAREA B FINAL DEVELOPMENT PLAN

TREE PRESERVATION & REMOVAL PLAN - SUBAREA B

SHEET 7 OF 31

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TREE SURVEY DATA TABLE

REMOVED	TREE NO.	SIZE (DBH INCHES)	BOTANICAL NAME	COMMON NAME	CONDITION	IN. REMOVED	IN. REPLACED
	1	13"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	2	13"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	3	12"	ULMUS AMERICANA	AMERICAN ELM	GOOD		-
	4	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	5	10"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	6	9"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	7	7"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	8	10"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	9	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	10	14"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
X	11	7"	ACER SACHARUM	SUGAR MAPLE	GOOD	7"	*
X	12	13"	PRUNUS SERROTINA	BLACK CHERRY	GOOD	13"	*
X	13	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD	9"	*
x	13 A	6"	STYPHNOLOBIUM JAPONICUM	JAPANESE POGODA TREE	GOOD	6"	*
X	14	20"	CELTIS OCCIDENTALIS	HACKBERRY	GOOD	20"	*
	15	18"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	16	12"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	17	13"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	18	16"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	19	20"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	20	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	21	11"	LONICERA JAPONICA	HONEYSUCKLE	GOOD		-
	22	16"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	23	11"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	24	12"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	25	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	26	9"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	27	13"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	385	13"	QUERCUS RUBRA	RED OAK	GOOD		-
	386	11"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
X	387	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD	9"	-
X	388	12"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD	12"	-
X	389	17"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD	17"	-
X	390	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD	9"	-
X	391	11"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD	11"	-
X	392	18"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD	18"	18"
X	393	10"-15"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD	25"	25"
X	394	14"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD	14"	-
	395	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	396	13"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
X	397	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD	8"	-
X	398	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD	9"	-
X	399	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD	8"	-
X	400	7"	PINUS STROBUS	WHITE PINE	GOOD	7"	-
X	401	8"	PINUS STROBUS	WHITE PINE	GOOD	8"	-
X	402	9"	PINUS STROBUS	WHITE PINE	GOOD	9"	-
X	403	11"	PINUS STROBUS	WHITE PINE	GOOD	11"	-
	404	10"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
X	405	8"	ACER NEGUNDO	BOX ELDER	GOOD	8"	-
X	406	24"	QUERCUS RUBRA	RED OAK	GOOD	24"	24"
X	407	10"-16"	QUERCUS ALBA	WHITE OAK	GOOD	16"	-
X	408	19"	QUERCUS IMBRICARIA	SHINGLE OAK	GOOD	19"	19"
X	409	8"	QUERCUS RUBRA	RED OAK	FAIR	8"	-
X	410	15"	QUERCUS IMBRICARIA	SHINGLE OAK	GOOD	15"	-
X	411	12"-15"	QUERCUS ALBA	WHITE OAK	GOOD	27"	27"
X	412	14"-19"	QUERCUS RUBRA	RED OAK	GOOD	33"	33"
X	413	17"	QUERCUS ALBA	WHITE OAK	GOOD	17"	-
	414	11"-14"	QUERCUS RUBRA	RED OAK	GOOD		-
	415	11"	QUERCUS ALBA	WHITE OAK	GOOD		-
X	416	9"	PINUS STROBUS	WHITE PINE	GOOD	9"	-
X	417	12"	PINUS STROBUS	WHITE PINE	GOOD	12"	-
X	418	11"	PINUS STROBUS	WHITE PINE	GOOD	11"	-
X	419	18"	PINUS STROBUS	WHITE PINE	GOOD	18"	18"
X	420	10"	PINUS STROBUS	WHITE PINE	GOOD	10"	-
X	421	9"	PINUS STROBUS	WHITE PINE	GOOD	9"	-
X	422	9"	PINUS STROBUS	WHITE PINE	GOOD	9"	-
X	423	18"	QUERCUS ALBA	WHITE OAK	GOOD	18"	18"
	424	19"	QUERCUS RUBRA	RED OAK	GOOD		
	425	19"	QUERCUS RUBRA	RED OAK	GOOD		
	426	8"	QUERCUS ALBA	WHITE OAK	GOOD		-
X	427	7"	QUERCUS ALBA	WHITE OAK	GOOD	7"	-
X	428	16"-17"	QUERCUS RUBRA	RED OAK	GOOD	33"	33"
	429	16"	QUERCUS ALBA	WHITE OAK	GOOD		-
	430	13"	QUERCUS ALBA	WHITE OAK	GOOD		-
X	431	14"	POPULUS DELTOIDES	COTTONWOOD	GOOD	14"	-

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DATE | PROJ NUMBER 648115010 | ENG SEH | PROJ MGR DSM | CADD SEH | COUNTY DELAWARE | CITY/VILLAGE/TOWNSHIP DUBLIN | SCALE H: V: | HORIZ DATUM | VERT DATUM

DEER RUN LAND, LLC
DEER RUN - SUBAREA B FINAL DEVELOPMENT PLAN

TREE SURVEY DATA TABLE - SUBAREA B

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TREE SURVEY DATA TABLE

REMOVED	TREE NO.	SIZE (DBH INCHES)	BOTANICAL NAME	COMMON NAME	CONDITION	IN. REMOVED	IN. REPLACED
X	432	15"	POPULUS DELTOIDES	COTTONWOOD	GOOD	15"	-
X	433	7"-10"	FRAXINUS AMERICANA	GREEN ASH	DEAD	17"	-
X	434	14"	PRUNUS SERROTINA	BLACK CHERRY	GOOD	14"	-
X	435	8"	ACER SACHARUM	SUGAR MAPLE	GOOD	8"	-
X	436	7"	ACER SACHARUM	SUGAR MAPLE	GOOD	7"	-
	437	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	438	7"	UNIDENTIFIABLE	UNIDENTIFIABLE	DEAD		-
X	439	6"	ACER SACHARUM	SUGAR MAPLE	GOOD	6"	-
X	440	7"	ACER SACHARUM	SUGAR MAPLE	GOOD	7"	-
X	441	6"	FRAXINUS AMERICANA	GREEN ASH	DEAD	6"	-
	442	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	443	11"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	444	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	445	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	446	14"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	447	10"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD		-
	448	9"-11"	QUERCUS RUBRA	RED OAK	GOOD		-
	449	9"	QUERCUS RUBRA	RED OAK	GOOD		-
	450	8"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD		-
	451	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
X	452	15"	FRAXINUS AMERICANA	GREEN ASH	DEAD	15"	-
X	453	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD	8"	-
	454	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	455	22"	PRUNUS SERROTINA	BLACK CHERRY	GOOD/FAIR		
	456	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	457	12"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	458	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	459	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	460	11"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
X	461	9"	ACER SACHARUM	SUGAR MAPLE	GOOD	9"	-
X	462	11"	PINUS STROBUS	WHITE PINE	GOOD	11"	-
X	463	9"	PINUS STROBUS	WHITE PINE	GOOD	9"	-
X	464	6"	PINUS STROBUS	WHITE PINE	GOOD	6"	-
X	465	7"	PINUS STROBUS	WHITE PINE	GOOD	7"	-
X	466	10"	JUGLANS NIGRA	BLACK WALNUT	GOOD	10"	-
X	467	7"	PINUS STROBUS	WHITE PINE	GOOD	7"	-
X	468	7"	PINUS STROBUS	WHITE PINE	GOOD	7"	-
	469	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	470	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	471	7"	QUERCUS RUBRA	RED OAK	GOOD		-
	472	16"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	473	10"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		
	474	7"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		
	475	16"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		
	604	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	606	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	607	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	608	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	609	15"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	610	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	611	15"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	612	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	613	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	614	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	615	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	616	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	617	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	618	9"	ACER SACHARUM	SUGAR MAPLE	DEAD		-
	619	13"	PRUNUS SERROTINA	BLACK CHERRY	GOOD/FAIR		-
	620	10"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	621	15"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	622	22"	QUERCUS ALBA	WHITE OAK	GOOD		
	623	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	624	12"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD		-
	625	15"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD		-
	626	11"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD		-
X	627	7"	ACER SACHARUM	SUGAR MAPLE	GOOD	7"	-
X	628	16"	QUERCUS RUBRA	RED OAK	DEAD	16"	-
X	629	20"	QUERCUS RUBRA	RED OAK	GOOD	20"	20"
	630	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	631	13"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	632	19"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	633	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	634	6"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-

TREE SURVEY DATA TABLE

	REMOVED	TREE NO.	SIZE (DBH INCHES)	BOTANICAL NAME	COMMON NAME	CONDITION	IN. REMOVED	IN. REPLACED
		635	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		636	11"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		637	13"	QUERCUS IMBRICARIA	SHINGLE OAK	GOOD		-
		638	7"	QUERCUS IMBRICARIA	SHINGLE OAK	GOOD		-
		639	11"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		640	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		641	12"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		642	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		643	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		644	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		645	6"	ACER SACHARUM	SUGAR MAPLE	FAIR		-
		646	7"	PRUNUS SERROTINA	BLACK CHERRY	DEAD		-
		647	13"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		648	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
		649	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		650	8"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
		651	15"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
		652	6"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
		653	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
		654	13"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
		655	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		656	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
		657	13"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		658	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		659	13"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
		660	13"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		661	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		662	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		663	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		664	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		665	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		666	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		667	15"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		668	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		669	11"	PRUNUS SERROTINA	BLACK CHERRY	DEAD		-
		670	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		671	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		672	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
		673	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		674	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		675	12"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		676	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		677	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
		678	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		679	11"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
		680	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		681	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
		682	14"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
		683	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	X	684	29"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD	29"	29"
		685	12"	QUERCUS IMBRICARIA	SHINGLE OAK	GOOD		-
		686	10"	QUERCUS ALBA	WHITE OAK	GOOD		-
		687	8"	QUERCUS ALBA	WHITE OAK	GOOD		-
		688	19"	QUERCUS IMBRICARIA	SHINGLE OAK	GOOD		
		689	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
		690	7"	QUERCUS RUBRA	RED OAK	GOOD		-
		691	14"	QUERCUS RUBRA	RED OAK	GOOD		-
		692	36"	QUERCUS ALBA	WHITE OAK	GOOD		
		693	20"	QUERCUS IMBRICARIA	SHINGLE OAK	GOOD		
		694	16"	QUERCUS ALBA	WHITE OAK	GOOD		-
		695	26"	QUERCUS IMBRICARIA	SHINGLE OAK	GOOD		
		696	20"	QUERCUS RUBRA	RED OAK	GOOD		
		697	18"	QUERCUS RUBRA	RED OAK	GOOD		
		698	19"	QUERCUS RUBRA	RED OAK	GOOD		
		699	16"	QUERCUS RUBRA	RED OAK	GOOD		-
		700	10"	QUERCUS RUBRA	RED OAK	GOOD		-
		701	9"	QUERCUS MUEHLENBERGII	CHINQUAPIN OAK	GOOD		-
		702	28"	QUERCUS IMBRICARIA	SHINGLE OAK	FAIR		
		703	19"	QUERCUS RUBRA	RED OAK	GOOD		
		704	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
		705	20"	QUERCUS IMBRICARIA	SHINGLE OAK	GOOD		
		706	16"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
		707	13"	QUERCUS ALBA	WHITE OAK	GOOD		-
		708	11"	QUERCUS ALBA	WHITE OAK	FAIR/POOR		

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01/04/2016 - REVISIONS PER CITY OF DUBLIN COMMENTS

DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	HORIZ DATUM	VERT DATUM
	648115010	SEH	DSM	SEH	DELAWARE	DUBLIN	H:	V:	

DEER RUN LAND, LLC
DEER RUN - SUBAREA B FINAL DEVELOPMENT PLAN

TREE SURVEY DATA TABLE - SUBAREA B

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TREE SURVEY DATA TABLE

REMOVED	TREE NO.	SIZE (DBH INCHES)	BOTANICAL NAME	COMMON NAME	CONDITION	IN. REMOVED	IN. REPLACED
	709	8"	ACER SACHARUM	SUGAR MAPLE	DEAD		-
	710	6"	ACER SACHARUM	SUGAR MAPLE	FAIR		-
	711	16"	QUERCUS ALBA	WHITE OAK	FAIR/POOR		-
X	712	11"	QUERCUS ALBA	WHITE OAK	GOOD	11"	-
	713	34"	QUERCUS ALBA	WHITE OAK	GOOD		
	714	43"	QUERCUS ALBA	WHITE OAK	GOOD		
	715	10"	QUERCUS ALBA	WHITE OAK	GOOD		-
	716	24"	QUERCUS ALBA	WHITE OAK	GOOD		
	717	11"	QUERCUS ALBA	WHITE OAK	GOOD		-
	718	22"	QUERCUS ALBA	WHITE OAK	GOOD		
	719	11"	QUERCUS ALBA	WHITE OAK	GOOD		-
	720	7"-14"	QUERCUS ALBA	WHITE OAK	GOOD		-
	721	8"	QUERCUS ALBA	WHITE OAK	GOOD		-
	722	13"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	723	23"	QUERCUS RUBRA	RED OAK	GOOD		
	724	9"	QUERCUS MUEHLENBERGII	CHINQUAPIN OAK	GOOD		-
	725	6"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	726	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	727	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	728	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	729	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	DEAD		-
	730	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	731	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	732	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	733	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD/FAIR		-
	734	8"-12"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	735	15"	UNIDENTIFIABLE	UNIDENTIFIABLE	DEAD		-
	736	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	737	24"	QUERCUS RUBRA	RED OAK	GOOD		
	738	18"	ACER SACHARUM	SUGAR MAPLE	GOOD		
	739	16"	POPULUS DELTOIDES	COTTONWOOD	GOOD		-
X	740	7"	ACER NEGUNDO	BOX ELDER	GOOD	7"	-
X	741	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD	7"	-
X	742	8"	ULMUS AMERICANA	AMERICAN ELM	GOOD	8"	-
X	743	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD	10"	-
X	744	7"	CELTIS OCCIDENTALIS	HACKBERRY	GOOD	7"	-
	745	12"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
X	746	12"	ACER SACHARUM	SUGAR MAPLE	GOOD	12"	-
X	747	16"	ACER SACHARUM	SUGAR MAPLE	GOOD	16"	-
X	748	12"	ACER SACHARUM	SUGAR MAPLE	GOOD	12"	-
	749	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
X	750	11"	ULMUS AMERICANA	AMERICAN ELM	GOOD	11"	-
X	751	8"	ACER SACHARUM	SUGAR MAPLE	GOOD	8"	-
X	752	8"	ACER SACHARUM	SUGAR MAPLE	GOOD	8"	-
X	753	10"	ACER SACHARUM	SUGAR MAPLE	GOOD	10"	-
X	754	7"	ACER SACHARUM	SUGAR MAPLE	GOOD	7"	-
X	755	8"	ACER SACHARUM	SUGAR MAPLE	GOOD	8"	-
X	756	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD	9"	-
X	757	11"	ACER SACHARUM	SUGAR MAPLE	GOOD	11"	-
X	758	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD	10"	-
X	759	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD	7"	-
X	760	7"	ACER SACHARUM	SUGAR MAPLE	GOOD	7"	-
X	761	9"	JUGLANS NIGRA	BLACK WALNUT	GOOD	9"	-
X	762	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD	7"	-
X	763	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD	12"	-
X	764	12"	JUGLANS NIGRA	BLACK WALNUT	GOOD	12"	-
X	765	13"	FRAXINUS AMERICANA	GREEN ASH	DEAD	13"	-
X	766	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD	8"	-
	767	13"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
X	768	20",18",9"	ACER SACHARUM	SUGAR MAPLE	GOOD	47"	47"
X	769	22"	PRUNUS SERROTINA	BLACK CHERRY	GOOD	22"	22"
X	770	22"	PRUNUS SERROTINA	BLACK CHERRY	GOOD	22"	22"
X	771	19"	PRUNUS SERROTINA	BLACK CHERRY	DEAD	19"	-
X	772	14"	PRUNUS SERROTINA	BLACK CHERRY	GOOD	14"	-
X	773	8"	ACER SACHARUM	SUGAR MAPLE	GOOD	8"	-
X	774	15"	FRAXINUS AMERICANA	GREEN ASH	DEAD	15"	-
X	775	9"	ACER SACHARUM	SUGAR MAPLE	GOOD	9"	-
X	776	39"	PRUNUS SERROTINA	BLACK CHERRY	GOOD	39"	39"
X	777	10"	QUERCUS RUBRA	RED OAK	GOOD	10"	-
X	778	12"-21"	CARYA OVATA	SHAGBARK HICKORY	GOOD	33"	33"
X	779	7"	ACER SACHARUM	SUGAR MAPLE	GOOD	7"	-
X	780	7"	ACER SACHARUM	SUGAR MAPLE	GOOD	7"	-
X	781	7"	ACER SACHARUM	SUGAR MAPLE	GOOD	7"	-
X	782	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD	8"	-

TREE SURVEY DATA TABLE

REMOVED	TREE NO.	SIZE (DBH INCHES)	BOTANICAL NAME	COMMON NAME	CONDITION	IN. REMOVED	IN. REPLACED
	783	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
X	784	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD	9"	-
X	785	8"	ACER SACHARUM	SUGAR MAPLE	GOOD	8"	-
X	786	7"	ACER SACHARUM	SUGAR MAPLE	GOOD	7"	-
X	787	8"	ACER SACHARUM	SUGAR MAPLE	GOOD	8"	-
X	788	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD	9"	-
X	789	7"	ACER SACHARUM	SUGAR MAPLE	GOOD	7"	-
X	790	11"	QUERCUS RUBRA	RED OAK	GOOD	11"	-
	791	20"	JUGLANS NIGRA	BLACK WALNUT	GOOD		
	792	10"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	793	6"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	794	11"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	795	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	796	11"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	797	14"	QUERCUS IMBRICARIA	SHINGLE OAK	GOOD		-
	798	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	799	14"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	800	12"	GELITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	801	12"	PICEA ABIES	NORWAY SPRUCE	GOOD		-
	802	15"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	803	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	804	18"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	805	7"	POPULUS DELTOIDES	COTTONWOOD	GOOD		-
	806	9"-12"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	807	12"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	808	13"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	809	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	810	10"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	811	13"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	812	10"	CELTIS OCCIDENTALIS	HACKBERRY	GOOD		-
	813	17"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	814	6"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	815	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	816	24"	QUERCUS RUBRA	RED OAK	GOOD		
	817	18"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	818	9"-17"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	819	25"	QUERCUS RUBRA	RED OAK	GOOD		
	820	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	821	7"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD/FAIR		-
	822	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	823	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	824	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	825	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	826	9"-10"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	827	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	828	18"	QUERCUS RUBRA	RED OAK	GOOD		
	829	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	830	12"	QUERCUS IMBRICARIA	SHINGLE OAK	GOOD/FAIR		-
	831	11"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	832	15"	UNIDENTIFIABLE	UNIDENTIFIABLE	DEAD		-
	833	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	834	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	835	9"	PRUNUS SERROTINA	BLACK CHERRY	DEAD		-
	836	7"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD		-
	837	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	838	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	839	16"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD		-
	840	7"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD		-
	841	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	842	10"	PRUNUS SERROTINA	BLACK CHERRY	POOR/DEAD		-
	843	10"	GLEDITSIA TRICANTHOS	HONEY LOCUST	FAIR		-
	844	25"	QUERCUS RUBRA	RED OAK	GOOD		
	845	15"	QUERCUS RUBRA	RED OAK	GOOD		-
	846	16"	QUERCUS RUBRA	RED OAK	GOOD		-
	847	7"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	848	8"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD		-
	849	11"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	850	13"	PRUNUS SERROTINA	BLACK CHERRY	FAIR		-
	851	15"	QUERCUS RUBRA	RED OAK	GOOD		-
	852	10"-18"	QUERCUS RUBRA	RED OAK	GOOD		-
	853	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	854	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	855	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	856	22"	QUERCUS RUBRA	RED OAK	GOOD		

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DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	HORIZ DATUM	VERT DATUM
	648115010	SEH	DSM	SEH	DELAWARE	DUBLIN	H:	V:	

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DEER RUN - SUBAREA B FINAL DEVELOPMENT PLAN

TREE SURVEY DATA TABLE - SUBAREA B

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TREE SURVEY DATA TABLE

REMOVED	TREE NO.	SIZE (DBH INCHES)	BOTANICAL NAME	COMMON NAME	CONDITION	IN. REMOVED	IN. REPLACED
	857	23"	QUERCUS RUBRA	RED OAK	GOOD		
	858	17"	QUERCUS RUBRA	RED OAK	GOOD		
	859	6"	OSTYA VIRGINIANA	HOPHORNBEAM	DEAD		-
	860	9"	OSTYA VIRGINIANA	HOPHORNBEAM	GOOD		-
	861	9"	QUERCUS RUBRA	RED OAK	GOOD		-
	862	11"	QUERCUS RUBRA	RED OAK	GOOD		-
	863	23"	QUERCUS RUBRA	RED OAK	GOOD		
	864	24"	QUERCUS RUBRA	RED OAK	GOOD		
	865	8"	OSTYA VIRGINIANA	HOPHORNBEAM	GOOD		-
	866	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	867	6"	PRUNUS SERROTINA	BLACK CHERRY	FAIR		-
	868	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	869	9"	QUERCUS IMBRICARIA	SHINGLE OAK	GOOD		-
	870	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	871	8"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD		-
	872	7"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	873	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	874	10"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD		-
	875	9"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD		-
	876	37"	QUERCUS IMBRICARIA	SHINGLE OAK	GOOD		
	877	23"	QUERCUS IMBRICARIA	SHINGLE OAK	GOOD		
	878	11"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	879	7"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	880	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	881	13"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	882	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	883	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	884	18"	QUERCUS RUBRA	RED OAK	GOOD		
	885	12"	QUERCUS MUEHLENBERGII	CHINQUAPIN OAK	GOOD		-
	886	7"	QUERCUS MUEHLENBERGII	CHINQUAPIN OAK	GOOD		-
	887	7"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	888	12"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	889	16"	POPULUS DELTOIDES	COTTONWOOD	GOOD		-
	890	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	891	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	892	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
X	893	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD	7"	-
X	894	9"	ACER SACHARUM	SUGAR MAPLE	GOOD	9"	-
X	895	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD	7"	-
X	896	7"	ACER SACHARUM	SUGAR MAPLE	GOOD	7"	-
X	897	6"	ACER SACHARUM	SUGAR MAPLE	GOOD	6"	-
X	898	7"	QUERCUS RUBRA	RED OAK	GOOD	7"	-
X	899	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD	8"	-
	900	7"	QUERCUS MUEHLENBERGII	CHINQUAPIN OAK	GOOD		-
	901	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	902	14"	QUERCUS RUBRA	RED OAK	GOOD		-
	903	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	904	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	905	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	906	10"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	907	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	908	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
X	909	7"	ULMUS AMERICANA	AMERICAN ELM	GOOD	7"	-
X	910	6"	ACER SACHARUM	SUGAR MAPLE	GOOD	6"	-
	911	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	912	10"	PINUS STROBUS	WHITE PINE	FAIR		-
	913	10"	PINUS STROBUS	WHITE PINE	FAIR		-
	914	20"	QUERCUS RUBRA	RED OAK	GOOD		
	915	21"	QUERCUS RUBRA	RED OAK	GOOD		
	916	19"	QUERCUS ALBA	WHITE OAK	GOOD		
	917	22"	QUERCUS ALBA	WHITE OAK	GOOD		
	918	13"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	919	16"	TILIA AMERICANA	BASSWOOD	GOOD		-
	920	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	921	11"	POPULUS DELTOIDES	COTTONWOOD	POOR		-
	922	30"	UNIDENTIFIABLE	UNIDENTIFIABLE	DEAD		-
	923	14"	UNIDENTIFIABLE	UNIDENTIFIABLE	DEAD		-
	924	11"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	925	19"	ACER SACHARUM	SUGAR MAPLE	GOOD		
	926	11"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	927	12"	QUERCUS RUBRA	RED OAK	GOOD		-
	928	8"	FRAXINUS AMERICANA	GREEN ASH	FAIR		-
	929	18"	QUERCUS RUBRA	RED OAK	GOOD		
	930	8"	QUERCUS RUBRA	RED OAK	GOOD		-

TREE SURVEY DATA TABLE

REMOVED	TREE NO.	SIZE (DBH INCHES)	BOTANICAL NAME	COMMON NAME	CONDITION	IN. REMOVED	IN. REPLACED
	931	15"	QUERCUS PRINUS	CHESTNUT OAK	GOOD		-
	932	16"	QUERCUS ALBA	WHITE OAK	GOOD		-
	933	7"	QUERCUS ALBA	WHITE OAK	GOOD		-
	934	7"	QUERCUS IMBRICARIA	SHINGLE OAK	GOOD		-
	935	6"	QUERCUS RUBRA	RED OAK	GOOD		-
	936	8"	FRAXINUS AMERICANA	GREEN ASH	FAIR		-
	937	9"	QUERCUS RUBRA	RED OAK	GOOD		-
	938	16"	QUERCUS ALBA	WHITE OAK	GOOD		-
	939	16"	QUERCUS ALBA	WHITE OAK	GOOD		-
	940	13"	QUERCUS ALBA	WHITE OAK	GOOD		-
	941	24"	QUERCUS ALBA	WHITE OAK	GOOD		
	942	12"	QUERCUS RUBRA	RED OAK	GOOD		-
	943	6"	QUERCUS ALBA	WHITE OAK	GOOD		-
	944	9"	QUERCUS ALBA	WHITE OAK	GOOD		-
	945	7"	QUERCUS ALBA	WHITE OAK	DEAD		-
	946	28"	QUERCUS ALBA	WHITE OAK	GOOD		
	947	18"	QUERCUS ALBA	WHITE OAK	GOOD		
	948	13"	QUERCUS ALBA	WHITE OAK	GOOD		-
	949	22"	QUERCUS RUBRA	RED OAK	POOR		
	950	8"	QUERCUS RUBRA	RED OAK	GOOD		-
	951	6"	QUERCUS RUBRA	RED OAK	GOOD		-
	952	18"	QUERCUS RUBRA	RED OAK	GOOD		
	953	18"	QUERCUS RUBRA	RED OAK	GOOD		
	954	15"	POPULUS DELTOIDES	COTTONWOOD	GOOD		-
	955	25"	QUERCUS RUBRA	RED OAK	GOOD		
	956	21"	QUERCUS RUBRA	RED OAK	GOOD		
	957	13"	QUERCUS RUBRA	RED OAK	GOOD		-
	958	22"	QUERCUS RUBRA	RED OAK	GOOD		
	959	29"	QUERCUS RUBRA	RED OAK	GOOD		
	960	19"	QUERCUS RUBRA	RED OAK	GOOD		
	961	10"	QUERCUS RUBRA	RED OAK	GOOD		-
	962	19"	QUERCUS RUBRA	RED OAK	GOOD		
	963	22"	QUERCUS RUBRA	RED OAK	GOOD		
	964	13"	QUERCUS ALBA	WHITE OAK	GOOD		-
	965	25"	QUERCUS ALBA	WHITE OAK	GOOD		
	966	13"	QUERCUS RUBRA	RED OAK	GOOD		-
	967	13"	QUERCUS RUBRA	RED OAK	GOOD		-
	968	34"	QUERCUS ALBA	WHITE OAK	GOOD		
	969	17"	QUERCUS RUBRA	RED OAK	GOOD		-
	970	12"	QUERCUS RUBRA	RED OAK	GOOD		-
	971	11"	QUERCUS RUBRA	RED OAK	GOOD		-
	972	17"	QUERCUS RUBRA	RED OAK	GOOD		-
	973	22"	QUERCUS RUBRA	RED OAK	GOOD		
	974	21"	QUERCUS RUBRA	RED OAK	GOOD		
	975	7"	ACER SACHARUM	SUGAR MAPLE	DEAD		-
	976	18"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD		
	977	7"	QUERCUS RUBRA	RED OAK	GOOD		-
	978	12"	QUERCUS RUBRA	RED OAK	GOOD		-
	979	22"	QUERCUS RUBRA	RED OAK	GOOD		
	980	12"	PRUNUS SERROTINA	BLACK CHERRY	DEAD		-
	981	12"	QUERCUS RUBRA	RED OAK	GOOD		-
	982	11"	QUERCUS RUBRA	RED OAK	GOOD		-
	983	10"	QUERCUS RUBRA	RED OAK	GOOD		-
	984	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	985	11"	ULMUS AMERICANA	AMERICAN ELM	GOOD		-
	986	8"	QUERCUS RUBRA	RED OAK	GOOD		-
	987	12"	QUERCUS RUBRA	RED OAK	GOOD		-
	988	15"	QUERCUS RUBRA	RED OAK	GOOD		-
	989	9"	QUERCUS RUBRA	RED OAK	GOOD		-
	990	9"	QUERCUS RUBRA	RED OAK	GOOD		-
	991	8"	QUERCUS RUBRA	RED OAK	GOOD		-
	992	9"	QUERCUS IMBRICARIA	SHINGLE OAK	GOOD		-
	993	8"	QUERCUS RUBRA	RED OAK	GOOD		-
	994	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	995	7"	QUERCUS RUBRA	RED OAK	GOOD		-
	996	15"	POPULUS DELTOIDES	COTTONWOOD	GOOD		-
	997	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	998	14"	QUERCUS RUBRA	RED OAK	GOOD		-
	1000	6"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1001	8"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1002	8"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1003	10"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1004	7"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1005	15"	GLEDITSIA TRICANTHOS	HONEY LOCUST	FAIR		-

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REVISIONS
01/04/2016 - REVISIONS PER CITY OF DUBLIN COMMENTS

DATE | PROJ NUMBER | ENG | PROJ MGR | CADD | COUNTY | CITY/VILLAGE/TOWNSHIP | SCALE | HORZ DATUM | VERT DATUM
64815001 0 | SEH | DSM | SEH | DELAWARE | DUBLIN | H: | V:

DEER RUN LAND, LLC
DEER RUN - SUBAREA B FINAL DEVELOPMENT PLAN

TREE SURVEY DATA TABLE - SUBAREA B

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TREE SURVEY DATA TABLE

REMOVED	TREE NO.	SIZE (DBH INCHES)	BOTANICAL NAME	COMMON NAME	CONDITION	IN. REMOVED	IN. REPLACED
	1006	10"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1007	8"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1008	12"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1009	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1010	6"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1011	8"	PRUNUS SERROTINA	BLACK CHERRY	DEAD		-
	1012	10"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1013	10"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1014	6"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1015	10"	UNIDENTIFIABLE	UNIDENTIFIABLE	DEAD		-
	1016	8"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	1017	6"	ULMUS AMERICANA	AMERICAN ELM	GOOD		-
	1018	6"	PRUNUS SERROTINA	BLACK CHERRY	FAIR		-
	1019	12"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1020	7"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1021	6"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1022	7"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1023	10"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1024	12"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1025	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1026	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1027	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1028	10"	PRUNUS SERROTINA	BLACK CHERRY	GOOD/FAIR		-
	1029	8"	PRUNUS SERROTINA	BLACK CHERRY	GOOD/FAIR		-
	1030	12"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1031	15"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1032	6"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1033	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1034	8"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1035	8"	PRUNUS SERROTINA	BLACK CHERRY	FAIR		-
	1036	6"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1037	12"	PRUNUS SERROTINA	BLACK CHERRY	FAIR		-
	1038	6"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1039	6"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1040	8"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1041	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1042	10"	PRUNUS SERROTINA	BLACK CHERRY	GOOD/FAIR		-
	1043	15"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1044	12"	PRUNUS SERROTINA	BLACK CHERRY	GOOD/FAIR		
	1045	12"	PRUNUS SERROTINA	BLACK CHERRY	GOOD/FAIR		-
	1046	10"	PRUNUS SERROTINA	BLACK CHERRY	GOOD/FAIR		-
	1047	12"	PRUNUS SERROTINA	BLACK CHERRY	GOOD/FAIR		-
	1048	8"	PRUNUS SERROTINA	BLACK CHERRY	FAIR/POOR		
	1049	6"	PRUNUS SERROTINA	BLACK CHERRY	FAIR		-
	1050	6"	PRUNUS SERROTINA	BLACK CHERRY	FAIR		-
	1051	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1052	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1053	10"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	1054	6"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1055	8"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1056	8"	PRUNUS SERROTINA	BLACK CHERRY	GOOD/FAIR		-
	1057	6"	PRUNUS SERROTINA	BLACK CHERRY	DEAD		-
	1058	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1059	6"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1060	12"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1061	6"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1062	6"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1063	6"	PRUNUS SERROTINA	BLACK CHERRY	GOOD/FAIR		-
	1064	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1065	12"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	1066	8"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	1067	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1068	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1069	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1070	8"	FRAXINUS AMERICANA	GREEN ASH	POOR/DEAD		-
	1071	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1072	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1073	12"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1074	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1075	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1076	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1077	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1078	12"	FRAXINUS AMERICANA	GREEN ASH	FAIR		-
	1079	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-

TREE SURVEY DATA TABLE

REMOVED	TREE NO.	SIZE (DBH INCHES)	BOTANICAL NAME	COMMON NAME	CONDITION	IN. REMOVED	IN. REPLACED
	1080	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1081	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1082	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1083	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1084	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1085	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1086	16"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1087	12"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	1088	15"	QUERCUS RUBRA	RED OAK	GOOD		-
	1089	8"	QUERCUS RUBRA	RED OAK	GOOD		-
	1090	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1091	10"	FRAXINUS AMERICANA	GREEN ASH	POOR/DEAD		-
	1092	12"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1093	8"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1094	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1095	6"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1096	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1097	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1098	6"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1099	12"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1100	22"	ACER SACHARUM	SUGAR MAPLE	GOOD		
	1101	6"	FRAXINUS AMERICANA	GREEN ASH	POOR/DEAD		-
	1102	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1103	16"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1104	16"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1105	8"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	1106	8"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	1107	14"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1108	10"	MACLURA POMIFERA	OSAGE ORANGE	GOOD		-
	1109	10"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1110	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1111	16"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	1112	12"	ULMUS AMERICANA	AMERICAN ELM	GOOD		-
	1113	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1114	10"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	1115	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1116	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1117	16"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1118	14"	FRAXINUS AMERICANA	GREEN ASH	DEAD		
	1119	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1120	6"	PRUNUS SERROTINA	BLACK CHERRY	DEAD		-
	1121	8"	PRUNUS SERROTINA	BLACK CHERRY	DEAD		-
	1122	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1123	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1124	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1125	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1126	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1127	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1128	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1129	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1130	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1131	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1132	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1133	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1134	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1135	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1136	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		
	1137	12"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	1138	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1139	6"	AESCULUS GLABRA	OHIO BUCKEYE	GOOD		-
	1140	12"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1141	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1142	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1143	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1144	16"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1145	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1146	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1147	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1148	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1149	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1150	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1151	14"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1152	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1153	16"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-

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REVISIONS
01/04/2016 - REVISIONS PER CITY OF DUBLIN COMMENTS

DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	HORIZ DATUM	VERT DATUM
	64811500/10	SEH	DSM	SSH	DELAWARE	DUBLIN	H:	V:	

DEER RUN LAND, LLC
DEER RUN - SUBAREA B FINAL DEVELOPMENT PLAN

TREE SURVEY DATA TABLE - SUBAREA B

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TREE SURVEY DATA TABLE

REMOVED	TREE NO.	SIZE (DBH INCHES)	BOTANICAL NAME	COMMON NAME	CONDITION	IN. REMOVED	IN. REPLACED
	1154	18"	ACER SACHARUM	SUGAR MAPLE	GOOD		
	1155	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1156	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1157	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1158	8"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1159	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1160	8"	FRAXINUS AMERICANA	GREEN ASH	GOOD/FAIR		-
	1161	8"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1162	6"	PRUNUS SERROTINA	BLACK CHERRY	GOOD/FAIR		-
	1163	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1164	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1165	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1166	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1167	6"	PRUNUS SERROTINA	BLACK CHERRY	FAIR		-
	1168	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1169	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1170	12"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1171	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1172	16"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1173	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1174	6"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1175	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1176	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1177	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1178	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1179	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1180	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1181	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1182	10"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	1183	6"	ULMUS AMERICANA	AMERICAN ELM	GOOD		-
	1184	12"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1185	12"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1186	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1187	16"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	1188	8"	ULMUS AMERICANA	AMERICAN ELM	GOOD		-
	1189	6"	PRUNUS SERROTINA	BLACK CHERRY	DEAD		-
	1190	12"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1191	12"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1192	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		
	1193	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1194	24"	AESCULUS GLABRA	OHIO BUCKEYE	GOOD		
	1195	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1196	8"	ULMUS AMERICANA	AMERICAN ELM	GOOD		-
	1197	6"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1198	8"	AESCULUS GLABRA	OHIO BUCKEYE	FAIR/POOR		
	1199	10"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1200	10"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	1201	14"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1202	11"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1203	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1204	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1205	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1206	11"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1207	9"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1208	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1209	9"	QUERCUS IMBRICARIA	SHINGLE OAK	GOOD		-
	1210	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1211	7"	ULMUS AMERICANA	AMERICAN ELM	GOOD		-
	1212	8"	PRUNUS SERROTINA	BLACK CHERRY	FAIR		-
	1213	13"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1214	10"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1215	8"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1216	10"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1217	12"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1218	11"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1219	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1220	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1221	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1222	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1223	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1224	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1225	6"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	1226	13"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1227	10"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-

TREE SURVEY DATA TABLE

REMOVED	TREE NO.	SIZE (DBH INCHES)	BOTANICAL NAME	COMMON NAME	CONDITION	IN. REMOVED	IN. REPLACED
	1228	8"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	1229	10"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1230	9"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	1231	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1232	15"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1233	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1234	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1235	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1236	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1237	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1238	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1239	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1240	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1241	8"	PRUNUS SERROTINA	BLACK CHERRY	FAIR		-
	1242	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1243	6"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1244	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1245	19"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1246	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1247	17"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1248	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1249	12"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1250	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1251	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1252	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1253	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1254	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1255	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1256	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1257	19"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		
	1258	10"	PRUNUS SERROTINA	BLACK CHERRY	FAIR		-
	1259	18"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		
	1260	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1261	11"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1262	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1263	6"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1264	11"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1265	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1266	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1267	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1268	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1269	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1270	9"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1271	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1272	6"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1273	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1274	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1275	15"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1276	7"	ULMUS AMERICANA	AMERICAN ELM	GOOD		-
	1277	6"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1278	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1279	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1280	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1281	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1282	9"	PRUNUS SERROTINA	BLACK CHERRY	FAIR		-
	1283	9"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1284	7"	AESCULUS GLABRA	OHIO BUCKEYE	GOOD		-
	1285	12"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1286	7"	ULMUS AMERICANA	AMERICAN ELM	GOOD		-
	1287	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1288	9"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1289	11"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	1290	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1291	10"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	1292	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1293	10"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1294	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1295	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1296	17"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	1297	17"	QUERCUS IMBRICARIA	SHINGLE OAK	GOOD		-
	1298	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1299	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1300	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	DEAD		-
	1301	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-

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01/04/2016 - REVISIONS PER CITY OF DUBLIN COMMENTS

DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	HORZ DATUM	VERT DATUM
	6481150010	SEH	DSM	SSH	DELAWARE	DUBLIN	H:	V:	

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TREE SURVEY DATA TABLE - SUBAREA B

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TREE SURVEY DATA TABLE

REMOVED	TREE NO.	SIZE (DBH INCHES)	BOTANICAL NAME	COMMON NAME	CONDITION	IN. REMOVED	IN. REPLACED
	1302	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1303	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1304	16"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1305	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1306	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1307	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1308	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1309	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1310	11"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1311	9"	ACER SACHARUM	SUGAR MAPLE	FAIR		-
	1312	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1313	13"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1314	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1315	6"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1316	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1317	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1318	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1319	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1320	12"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	1321	11"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1322	9"	MORUS ALBA	MULBERRY	GOOD		-
	1323	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1324	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1325	11"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1326	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1327	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1328	12"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1329	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1330	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1331	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1332	13"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1333	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1334	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1335	10"	FRAXINUS AMERICANA	GREEN ASH	POOR/DEAD		-
	1336	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1337	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1338	11"	MACLURA POMIFERA	OSAGE ORANGE	GOOD		-
	1339	11"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1340	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1341	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1342	11"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1343	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1344	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1345	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1346	11"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1347	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1348	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1349	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1350	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1351	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1352	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1353	28"	PRUNUS SERROTINA	BLACK CHERRY	POOR		
	1354	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1355	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
X	1356	10"	ACER SACHARUM	SUGAR MAPLE	GOOD	10"	-
X	1357	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD	9"	-
	1358	15"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1359	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
X	1360	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD	9"	-
X	1361	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD	10"	-
X	1362	11"	ACER SACHARUM	SUGAR MAPLE	GOOD	11"	-
X	1363	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD	10"	-
X	1364	7"	ACER SACHARUM	SUGAR MAPLE	GOOD	7"	-
	1365	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
X	1366	10"	ACER SACHARUM	SUGAR MAPLE	GOOD	10"	-
X	1367	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD	8"	-
	1368	13"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1369	13"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1370	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1371	10"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1372	15"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
X	1373	9"	ACER SACHARUM	SUGAR MAPLE	GOOD	9"	-
X	1374	39"	PRUNUS SERROTINA	BLACK CHERRY	GOOD	39"	39"
X	1375	10"	ACER SACHARUM	SUGAR MAPLE	GOOD	10"	-

TREE SURVEY DATA TABLE

REMOVED	TREE NO.	SIZE (DBH INCHES)	BOTANICAL NAME	COMMON NAME	CONDITION	IN. REMOVED	IN. REPLACED
x	1376	7"	ACER SACHARUM	SUGAR MAPLE	GOOD	7"	-
	1377	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
x	1378	8"	ACER SACHARUM	SUGAR MAPLE	GOOD	8"	-
	1379	14"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1380	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1381	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1382	17"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1383	13"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1384	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1385	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1386	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1387	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1388	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1389	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1390	11"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1391	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1392	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1393	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1394	9"	FRAXINUS AMERICANA	GREEN ASH	FAIR/POOR		-
	1395	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1396	9"	ULMUS AMERICANA	AMERICAN ELM	GOOD		-
	1397	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1398	11"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1399	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1400	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1401	6"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	1402	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
x	1403	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD	9"	-
	1404	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
x	1405	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD	8"	-
	1406	13"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1407	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1408	13"	FRAXINUS AMERICANA	GREEN ASH	POOR/DEAD		-
	1409	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1410	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1411	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1412	9"	FRAXINUS AMERICANA	GREEN ASH	POOR/DEAD		-
	1413	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1414	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1415	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1416	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
x	1417	14"	FRAXINUS AMERICANA	GREEN ASH	DEAD	14"	-
x	1418	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD	7"	-
	1419	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1420	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1421	10"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1422	16"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1423	12"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1424	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD/FAIR		-
	1425	15"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1426	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1427	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1428	11"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1429	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1430	11"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1431	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1432	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1433	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1434	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1435	6"	PRUNUS SERROTINA	BLACK CHERRY	POOR/DEAD		-
	1436	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1437	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1438	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1439	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1440	6"	PRUNUS SERROTINA	BLACK CHERRY	GOOD/FAIR		-
	1441	12"	POPULUS DELTOIDES	COTTONWOOD	GOOD		-
	1442	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1443	11"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1444	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1445	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1446	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1447	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1448	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1449	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-

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REVISIONS
01/04/2016 - REVISIONS PER CITY OF DUBLIN COMMENTS

DATE | PROJ NUMBER | ENG | PROJ MGR | CADD | COUNTY | CITY/VILLAGE/TOWNSHIP | SCALE | HORIZ DATUM | VERT DATUM
64811500/0 | SEH | DSM | SEH | DELAWARE | DUBLIN | H: | V:

DEER RUN LAND, LLC
DEER RUN - SUBAREA B FINAL DEVELOPMENT PLAN

TREE SURVEY DATA TABLE - SUBAREA B

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TREE SURVEY DATA TABLE

REMOVED	TREE NO.	SIZE (DBH INCHES)	BOTANICAL NAME	COMMON NAME	CONDITION	IN. REMOVED	IN. REPLACED
	1450	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1451	10"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1452	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1453	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	FAIR		-
	1454	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	FAIR		-
	1455	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1456	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1457	6"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1458	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1459	7"	QUERCUS RUBRA	RED OAK	GOOD		-
	1460	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1461	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1462	10"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1463	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1464	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1465	12"	QUERCUS RUBRA	RED OAK	GOOD		-
	1466	14"	QUERCUS RUBRA	RED OAK	GOOD		-
	1467	9"	QUERCUS RUBRA	RED OAK	GOOD		-
	1468	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1469	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1470	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1471	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1472	11"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1473	13"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1474	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	FAIR		-
	1475	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1476	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1477	10"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1478	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1479	10"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1480	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1481	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1482	10"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1483	6"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1484	10"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1485	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1486	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1487	12"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1488	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1489	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1490	10"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1491	12"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1492	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1493	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1494	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1495	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1496	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1497	13"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1498	12"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1499	12"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1500	12"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1501	8"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1502	6"	ULMUS AMERICANA	AMERICAN ELM	GOOD		-
	1503	8"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1504	6"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1505	10"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1506	12"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1507	6"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1508	16"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1509	6"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1510	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1511	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1512	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1513	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1514	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1515	6"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	1516	6"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1517	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1518	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1519	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1520	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1521	6"	AESCULUS GLABRA	OHIO BUCKEYE	GOOD		-
	1522	8"	AESCULUS GLABRA	OHIO BUCKEYE	GOOD		-
	1523	24"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		

TREE SURVEY DATA TABLE

REMOVED	TREE NO.	SIZE (DBH INCHES)	BOTANICAL NAME	COMMON NAME	CONDITION	IN. REMOVED	IN. REPLACED
	1524	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1525	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1526	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1527	6"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1528	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1529	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1530	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1531	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1532	6"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1533	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1534	10"	FRAXINUS AMERICANA	GREEN ASH	POOR/DEAD		-
	1535	6"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1536	18"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		
	1537	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1538	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1539	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1540	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1541	16"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1542	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1543	12"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1544	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1545	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1546	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1547	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1548	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1549	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1550	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1551	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1552	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1553	6"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1554	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1555	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1556	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1557	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1558	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1559	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1560	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1561	10"	FRAXINUS AMERICANA	GREEN ASH	POOR		-
	1562	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1563	10"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	1564	16"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1565	18"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1566	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1567	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1568	10"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1569	8"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1570	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1571	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1572	14"	FRAXINUS AMERICANA	GREEN ASH	FAIR		-
	1573	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1574	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1575	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1576	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1577	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1578	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1579	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1580	6"	PRUNUS SERROTINA	BLACK CHERRY	GOOD		-
	1581	12"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1582	12"	FRAXINUS AMERICANA	GREEN ASH	FAIR		-
	1583	10"	FRAXINUS AMERICANA	GREEN ASH	POOR/DEAD		-
	1584	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1585	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1586	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1587	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1588	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1589	10"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1590	16"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1591	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1592	10"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1593	6"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1594	6"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1595	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1596	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1597	10"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-

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01/04/2016 - REVISIONS PER CITY OF DUBLIN COMMENTS

DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	HORZ DATUM	VERT DATUM
	6481150010	SEH	DSM	SSH	DELAWARE	DUBLIN	H:	V:	

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DEER RUN - SUBAREA B FINAL DEVELOPMENT PLAN

TREE SURVEY DATA TABLE - SUBAREA B

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TREE SURVEY DATA TABLE

REMOVED	TREE NO.	SIZE (DBH INCHES)	BOTANICAL NAME	COMMON NAME	CONDITION	IN. REMOVED	IN. REPLACED
	1598	6"	PRUNUS SERROTINA	BLACK CHERRY	FAIR		-
	1599	16"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1600	12"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1601	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1602	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1603	16"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1604	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1605	7"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1606	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1607	11"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1608	9"	FRAXINUS AMERICANA	GREEN ASH	FAIR		-
	1609	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1610	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1611	11"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1612	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1613	8"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	1614	11"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1615	12"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1616	15"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1617	19"	POPULUS DELTOIDES	COTTONWOOD	GOOD		
	1618	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1619	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1620	12"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1621	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1622	14"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1623	13"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1624	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1625	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1626	11"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1627	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1628	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1629	13"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	1630	6"	ULMUS AMERICANA	AMERICAN ELM	FAIR		-
	1631	8"	MACLURA POMIFERA	OSAGE ORANGE	GOOD		-
	1632	16"	FRAXINUS AMERICANA	GREEN ASH	POOR/DEAD		-
	1633	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1634	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1635	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1636	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1637	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1638	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1639	7"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1640	16"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1641	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1642	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1643	8"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1644	11"	FRAXINUS AMERICANA	GREEN ASH	FAIR/POOR		-
	1645	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1646	9"	FRAXINUS AMERICANA	GREEN ASH	FAIR		-
	1647	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1648	13"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1649	11"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1650	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1651	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1652	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1653	10"	FRAXINUS AMERICANA	GREEN ASH	POOR/DEAD		-
	1654	8"	ULMUS AMERICANA	AMERICAN ELM	GOOD		-
	1655	14"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1656	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1657	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1658	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1659	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1660	11"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1661	13"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1662	13"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1663	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1664	14"	QUERCUS IMBRICARIA	SHINGLE OAK	GOOD		-
	1665	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1666	8"	QUERCUS MUEHLENBERGII	CHINQUAPIN OAK	GOOD		-
	1667	10"	QUERCUS RUBRA	RED OAK	GOOD		-
	1668	6"	QUERCUS MUEHLENBERGII	CHINQUAPIN OAK	GOOD		-
	1669	6"	QUERCUS IMBRICARIA	SHINGLE OAK	GOOD		-
	1670	10"	QUERCUS RUBRA	RED OAK	GOOD		-
	1671	19"	QUERCUS IMBRICARIA	SHINGLE OAK	GOOD		

TREE SURVEY DATA TABLE

REMOVED	TREE NO.	SIZE (DBH INCHES)	BOTANICAL NAME	COMMON NAME	CONDITION	IN. REMOVED	IN. REPLACED
	1672	8"	QUERCUS MUEHLENBERGII	CHINQUAPIN OAK	GOOD		-
	1673	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1674	7"	QUERCUS IMBRICARIA	SHINGLE OAK	GOOD		-
	1675	17"	QUERCUS RUBRA	RED OAK	GOOD		-
	1676	13"	QUERCUS RUBRA	RED OAK	GOOD		-
	1677	18"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1678	10"	QUERCUS IMBRICARIA	SHINGLE OAK	GOOD		-
	1679	9"	QUERCUS RUBRA	RED OAK	GOOD		-
	1680	9"	QUERCUS RUBRA	RED OAK	GOOD		-
	1681	12"	QUERCUS RUBRA	RED OAK	GOOD		-
	1682	9"	TILIA AMERICANA	BASSWOOD	GOOD		-
	1683	6"	TILIA AMERICANA	BASSWOOD	GOOD		-
	1684	11"	QUERCUS RUBRA	RED OAK	GOOD		-
	1685	8"	QUERCUS RUBRA	RED OAK	GOOD		-
	1686	9"	QUERCUS RUBRA	RED OAK	GOOD		-
	1687	15"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1688	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1689	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1690	16"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1691	18"	ACER SACHARUM	SUGAR MAPLE	GOOD		
	1692	17"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1693	12"	FRAXINUS AMERICANA	GREEN ASH	POOR/DEAD		-
	1694	9"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1695	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1696	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1697	10"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1698	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1699	11"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1700	6"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1701	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1702	9"	FRAXINUS AMERICANA	GREEN ASH	POOR/DEAD		-
	1703	11"	FRAXINUS AMERICANA	GREEN ASH	FAIR/POOR		
	1704	12"	ULMUS AMERICANA	AMERICAN ELM	GOOD		-
	1705	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1706	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1707	8"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1708	14"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1709	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1710	14"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1711	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1712	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1713	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1714	11"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1715	11"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1716	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1717	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1718	16"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1719	7"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1720	6"	FRAXINUS AMERICANA	GREEN ASH	GOOD		-
	1721	8"	ULMUS AMERICANA	AMERICAN ELM	GOOD		-
	1722	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1723	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1724	11"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1725	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1726	12"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1727	6"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1728	14"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1729	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1730	12"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1731	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1732	10"	GLEDITSIA TRICANTHOS	HONEY LOCUST	GOOD		-
	1733	10"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1734	10"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1735	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1736	8"	POPULUS DELTOIDES	COTTONWOOD	GOOD		-
	1737	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1738	15"	QUERCUS RUBRA	RED OAK	GOOD		-
	1739	14"	QUERCUS RUBRA	RED OAK	GOOD		-
	1740	7"	QUERCUS RUBRA	RED OAK	GOOD		-
	1741	9"	QUERCUS RUBRA	RED OAK	GOOD		-
	1742	9"	QUERCUS RUBRA	RED OAK	GOOD		-
	1743	11"	JUNIPERUS VIRGINIANA	RED CEDAR	FAIR		-
	1744	14"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1745	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-

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DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	HORIZ DATUM	VERT DATUM
	6481150010	SEH	DSM	SSH	DELAWARE	DUBLIN	H:	V:	

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TREE SURVEY DATA TABLE - SUBAREA B

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TREE SURVEY DATA TABLE

REMOVED	TREE NO.	SIZE (DBH INCHES)	BOTANICAL NAME	COMMON NAME	CONDITION	IN. REMOVED	IN. REPLACED
	1746	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1747	10"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1748	9"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1749	12"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1750	7"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1751	12"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1752	8"	ROBINIA PSEUDACACIA	BLACK LOCUST	GOOD		-
	1753	9"	QUERCUS RUBRA	RED OAK	GOOD		-
	1754	16"	QUERCUS IMBRICARIA	SHINGLE OAK	GOOD		-
	1755	11"	QUERCUS RUBRA	RED OAK	GOOD		-
	1756	8"	QUERCUS RUBRA	RED OAK	GOOD		-
	1757	6"	QUERCUS IMBRICARIA	SHINGLE OAK	GOOD		-
	1758	6"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1759	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1760	18"	QUERCUS RUBRA	RED OAK	GOOD		
	1761	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1762	8"	CARYA OVATA	SHAGBARK HICKORY	GOOD		-
	1763	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1764	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1765	12"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1766	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1767	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1768	10"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1769	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1770	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1771	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1772	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1773	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1774	10"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD		-
	1775	14"	QUERCUS RUBRA	RED OAK	GOOD		-
	1776	8"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD		-
	1777	7"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD		-
	1778	8"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD		-
	1779	14"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1780	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1781	9"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD		-
	1782	6"	CARYA CORDIFORMIS	BITTERNUT HICKORY	FAIR		-
	1783	8"	ULMUS AMERICANA	AMERICAN ELM	GOOD		-
	1784	8"	ULMUS AMERICANA	AMERICAN ELM	GOOD		-
	1785	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1786	6"	ULMUS AMERICANA	AMERICAN ELM	GOOD		-
	1787	6"	FRAXINUS AMERICANA	GREEN ASH	POOR		
	1788	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1789	8"	AESCULUS GLABRA	OHIO BUCKEYE	GOOD		-
	1790	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1791	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1792	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1793	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1794	16"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1795	8"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1796	21"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1797	6"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD		-
	1798	8"	FRAXINUS AMERICANA	GREEN ASH	POOR		
	1799	12"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1800	14"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1801	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1802	13"	CELTIS OCCIDENTALIS	HACKBERRY	GOOD		-
	1803	11"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1804	21"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1805	9"	QUERCUS MUEHLENBERGII	CHINQUAPIN OAK	GOOD		-
	1806	23"	QUERCUS RUBRA	RED OAK	GOOD		
	1807	21"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD		
	1808	17"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1809	13"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1810	17"	FRAXINUS AMERICANA	GREEN ASH	FAIR		-
	1811	14"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1812	8"	CELTIS OCCIDENTALIS	HACKBERRY	GOOD		-
	1813	15"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD		-
	1814	9"	TILIA AMERICANA	BASSWOOD	GOOD		-
	1815	8"	AESCULUS GLABRA	OHIO BUCKEYE	GOOD		-
	1816	24"	QUERCUS MUEHLENBERGII	CHINQUAPIN OAK	GOOD		
	1817	9"	FRAXINUS AMERICANA	GREEN ASH	FAIR		-
	1818	20"	JUGLANS NIGRA	BLACK WALNUT	GOOD		
	1819	7"	FRAXINUS AMERICANA	GREEN ASH	FAIR		-

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	648115010	SEH	DSM	SEH	DELAWARE	DUBLIN	H:	V:	

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TREE SURVEY DATA TABLE - SUBAREA B

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TREE SURVEY DATA TABLE

REMOVED	TREE NO.	SIZE (DBH INCHES)	BOTANICAL NAME	COMMON NAME	CONDITION	IN. REMOVED	IN. REPLACED
	1820	11"	FRAXINUS AMERICANA	GREEN ASH	FAIR		-
	1821	6"	FRAXINUS AMERICANA	GREEN ASH	FAIR		-
	1822	8"	CELTIS OCCIDENTALIS	HACKBERRY	GOOD		-
	1823	10"	CELTIS OCCIDENTALIS	HACKBERRY	GOOD		-
	1824	22"	FRAXINUS AMERICANA	GREEN ASH	FAIR		
	1825	14"	FRAXINUS AMERICANA	GREEN ASH	FAIR		-
	1826	12"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1827	12"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1828	14"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1829	11"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1830	12"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1831	8"	FRAXINUS AMERICANA	GREEN ASH	FAIR		-
	1832	17"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1833	10"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1834	17"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1835	6"	AESCULUS GLABRA	OHIO BUCKEYE	GOOD		-
	1836	14"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1837	7"	CELTIS OCCIDENTALIS	HACKBERRY	GOOD		-
	1838	15"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1839	11"	AESCULUS GLABRA	OHIO BUCKEYE	GOOD		-
	1840	28"	CELTIS OCCIDENTALIS	HACKBERRY	GOOD		
	1841	9"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1842	6"	FRAXINUS AMERICANA	GREEN ASH	FAIR		-
	1843	14"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1844	9"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD		-
	1845	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1846	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1847	12"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1848	7"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1849	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1850	6"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1851	7"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1852	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1853	11"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1854	11"	CELTIS OCCIDENTALIS	HACKBERRY	GOOD		-
	1855	14"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD		-
	1856	14"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD		-
	1857	12"	AESCULUS GLABRA	OHIO BUCKEYE	GOOD		-
	1858	8"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD		-
	1859	9"	QUERCUS RUBRA	RED OAK	GOOD		-
	1860	27"	QUERCUS RUBRA	RED OAK	GOOD		
	1861	9"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1862	16"	QUERCUS MUEHLENBERGII	CHINQUAPIN OAK	GOOD		-
	1863	18"	QUERCUS RUBRA	RED OAK	GOOD		
	1864	22"	TILIA AMERICANA	BASSWOOD	GOOD		
	1865	9"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD		-
	1866	17"	CARYA CORDIFORMIS	BITTERNUT HICKORY	GOOD		-
	1867	21"	QUERCUS RUBRA	RED OAK	GOOD		
	1868	10"	FRAXINUS AMERICANA	GREEN ASH	FAIR		-
	1869	12"	QUERCUS MUEHLENBERGII	CHINQUAPIN OAK	GOOD		-
	1870	10"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1871	6"	CELTIS OCCIDENTALIS	HACKBERRY	GOOD		-
	1872	12"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1873	18"	JUGLANS NIGRA	BLACK WALNUT	GOOD		
	1874	12"	QUERCUS RUBRA	RED OAK	GOOD		-
	1875	19"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1876	9"	QUERCUS IMBRICARIA	SHINGLE OAK	GOOD		-
	1877	9"	QUERCUS MUEHLENBERGII	CHINQUAPIN OAK	GOOD		-
	1878	16"	QUERCUS RUBRA	RED OAK	GOOD		-
	1879	28"	QUERCUS RUBRA	RED OAK	GOOD		
	1880	10"	QUERCUS RUBRA	RED OAK	GOOD		-
	1881	17"	QUERCUS RUBRA	RED OAK	GOOD		-
	1882	24"	QUERCUS RUBRA	RED OAK	GOOD		
	1883	16"	QUERCUS RUBRA	RED OAK	GOOD		-
	1884	22"	QUERCUS RUBRA	RED OAK	GOOD		
	1885	7"	QUERCUS ALBA	WHITE OAK	GOOD		-
	1886	12"	QUERCUS RUBRA	RED OAK	GOOD		-
	1887	7"	QUERCUS RUBRA	RED OAK	GOOD		-
	1888	6"	QUERCUS RUBRA	RED OAK	GOOD		-
	1889	9"	QUERCUS RUBRA	RED OAK	GOOD		-
	1890	7"	QUERCUS RUBRA	RED OAK	GOOD		-
	1901	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1902	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1903	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
							xref

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TREE SURVEY DATA TABLE

REMOVED	TREE NO.	SIZE (DBH INCHES)	BOTANICAL NAME	COMMON NAME	CONDITION	IN. REMOVED	IN. REPLACED
	1904	8"	FRAXINUS AMERICANA	GREEN ASH	DEAD		-
	1905	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1906	8"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1907	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1908	6"	PRUNUS SERROTINA	BLACK CHERRY	DEAD		-
	1909	6"	ACER SACHARUM	SUGAR MAPLE	GOOD		-
	1910	6"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
	1911	8"	JUGLANS NIGRA	BLACK WALNUT	GOOD		-
ANY TREE IN GOOD OR FAIR CONDITION GREATER THAT 18" DBH REMOVED FROM THE SITE SHALL BE REPLACED INCH-FOR-INCH, TOTAL INCHED TO BE REPLACED EXCLUDES DEAD/POOR CONDITION TREES.			TOTAL INCHES REMOVED			1,620"	
			TOTAL INCHES TO BE REPLACED			457"	
			NUMBER OF 2.5" CALIPER SIZE TREES REQUIRED FOR REPLACEMENT			183	
*ANY TREE IN GOOD OR FAIR CONDITION BETWEEN 6" AND 18" DBH REMOVED FROM COMMON OPEN SPACE MUST BE REPLACED ON A TREE FOR TREE BASIS.			TOTAL TREES REMOVED			5	
			TOTAL TREES TO BE REPLACED			5	
			TOTAL TREES TO BE REPLACED			188	

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01/04/2016 - REVISIONS PER CITY OF DUBLIN COMMENTS

DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	HORIZ DATUM	VERT DATUM
	6481150010	SEH	DSM	SSH	DELAWARE	DUBLIN	H: V:		

DEER RUN LAND, LLC
DEER RUN - SUBAREA B FINAL DEVELOPMENT PLAN

TREE SURVEY DATA TABLE - SUBAREA B

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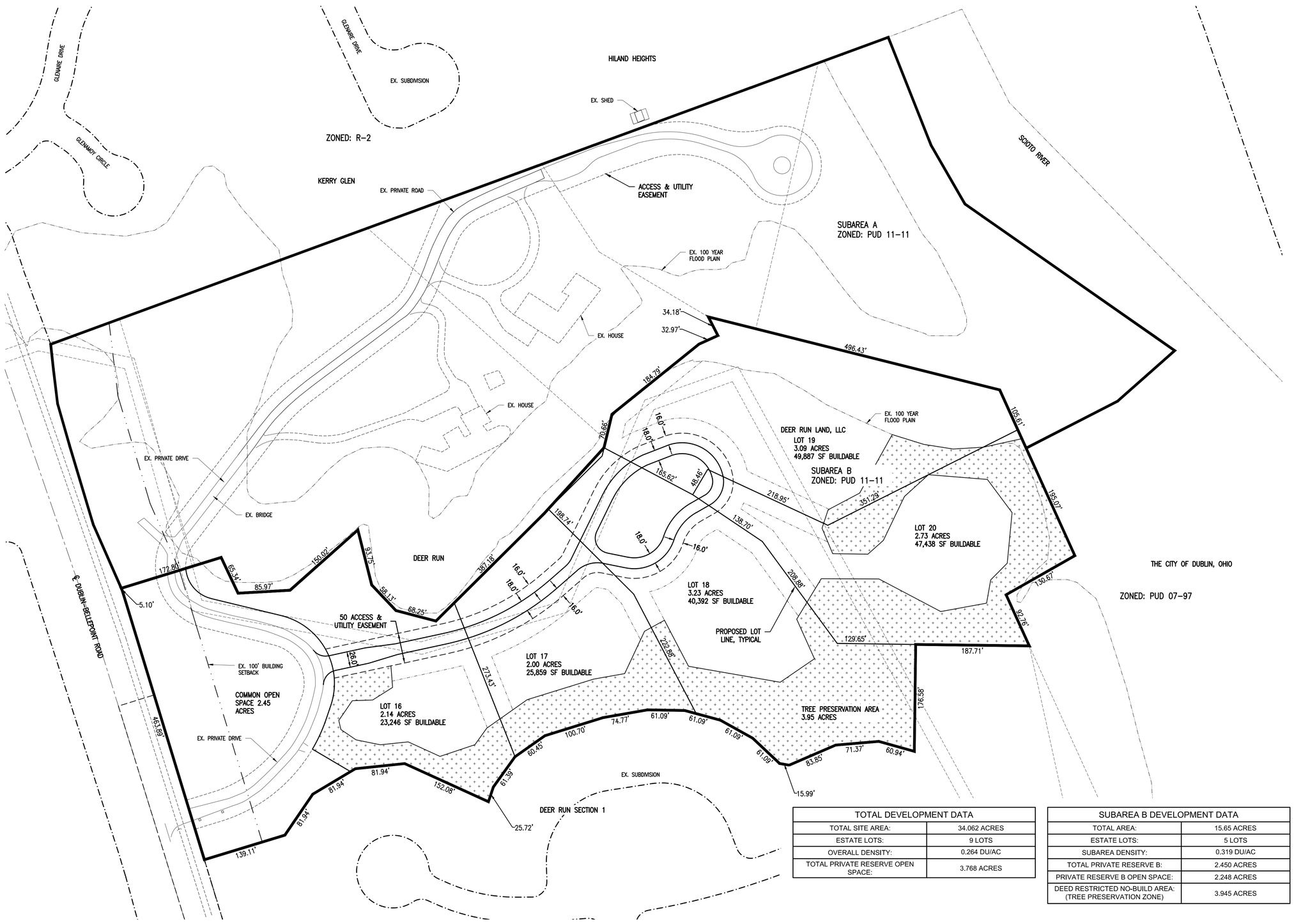
DRAWING PATH: P:\6101_6500\6481150010-Deer Run\Drawings\Civil\Plans_Const\Subarea B\6481150TPP_B AS.dwg Jul 29, 2016 - 9:22am

OVERALL SITE PLAN

SCALE: 1"=80'



TOTAL DEVELOPMENT DATA	
TOTAL SITE AREA:	34.062 ACRES
ESTATE LOTS:	9 LOTS
OVERALL DENSITY:	0.264 DU/AC
TOTAL PRIVATE RESERVE OPEN SPACE:	3.768 ACRES

SUBAREA B DEVELOPMENT DATA	
TOTAL AREA:	15.65 ACRES
ESTATE LOTS:	5 LOTS
SUBAREA DENSITY:	0.319 DU/AC
TOTAL PRIVATE RESERVE B:	2.450 ACRES
PRIVATE RESERVE B OPEN SPACE:	2.248 ACRES
DEED RESTRICTED NO-BUILD AREA: (TREE PRESERVATION ZONE)	3.945 ACRES

LEGEND

- EX. LIGHTING
- EX. CABLE RISER
- EX. TELEPHONE RISER
- EX. TRANSFORMER PAD
- EX. BOULDER
- EX. SPRINKLER HEAD
- SUBAREA BOUNDARY

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DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	HORZ DATUM	VERT DATUM
	648115010	SEH	DSM	SEH	DELAWARE	DUBLIN	H:	V:	

DEER RUN LAND, LLC
DEER RUN - SUBAREA B FINAL DEVELOPMENT PLAN

OVERALL SITE PLAN

SHEET 20 OF 31

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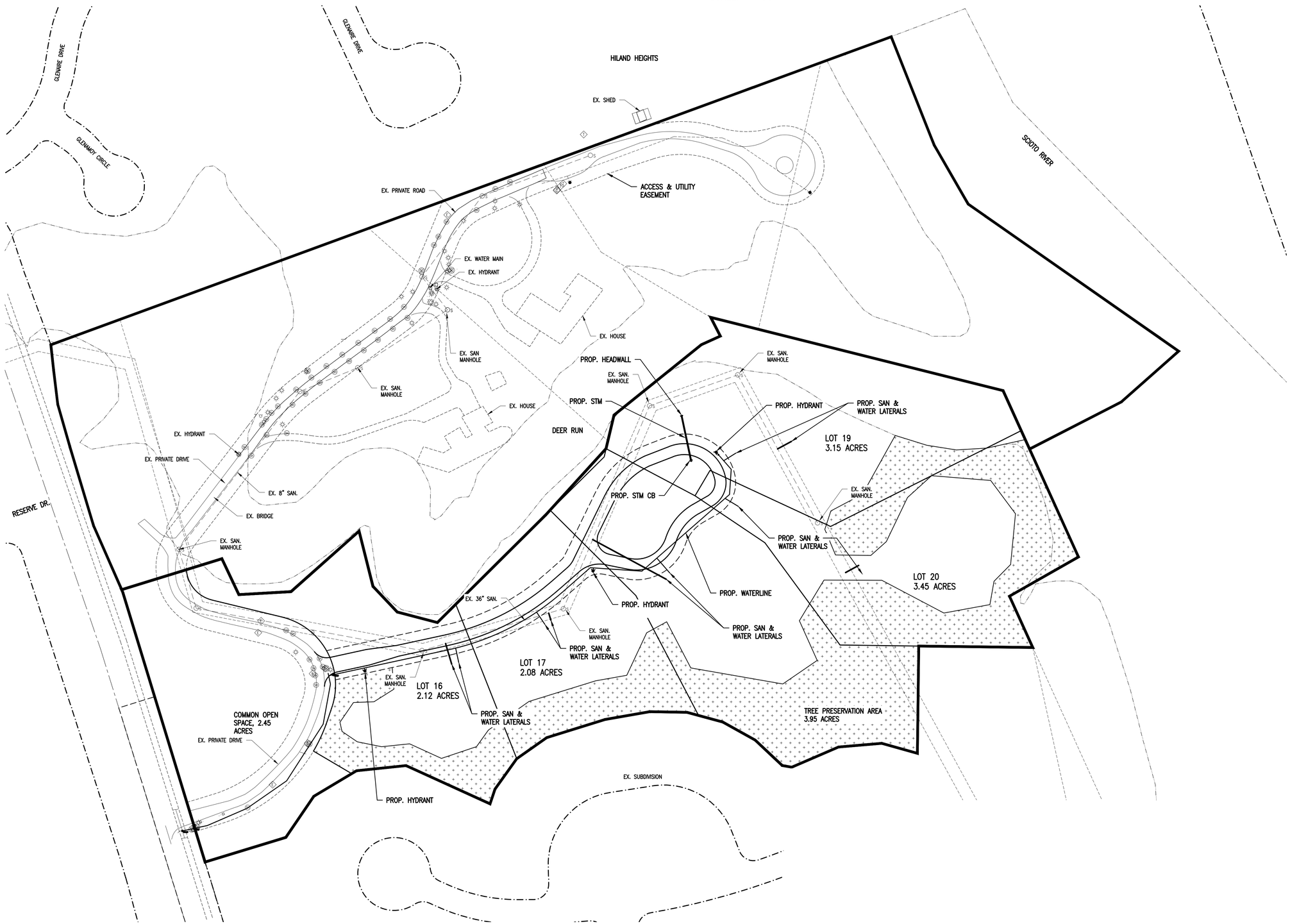
OVERALL UTILITY PLAN

SCALE: 1"=80'



LEGEND

- EX. LIGHTING
- EX. CABLE RISER
- EX. TELEPHONE RISER
- EX. TRANSFORMER PAD
- EX. BOULDER
- EX. SPRINKLER HEAD
- SUBAREA BOUNDARY

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DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	HORIZ DATUM	VERT DATUM
	648150010	SEH	DSM	SEH	DELAWARE	DUBLIN	H: V:		

DEER RUN LAND, LLC
DEER RUN - SUBAREA B FINAL DEVELOPMENT PLAN
OVERALL UTILITY PLAN

SHEET 21 OF 31

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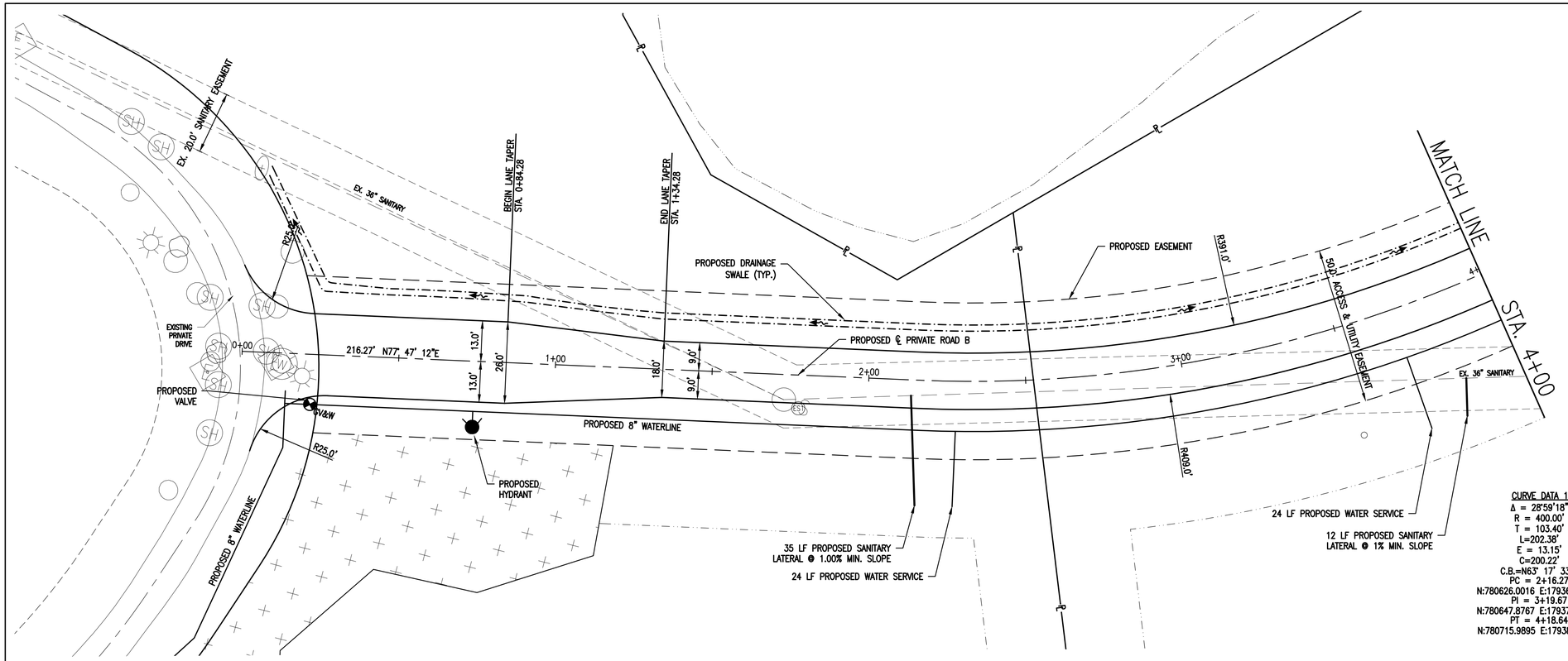
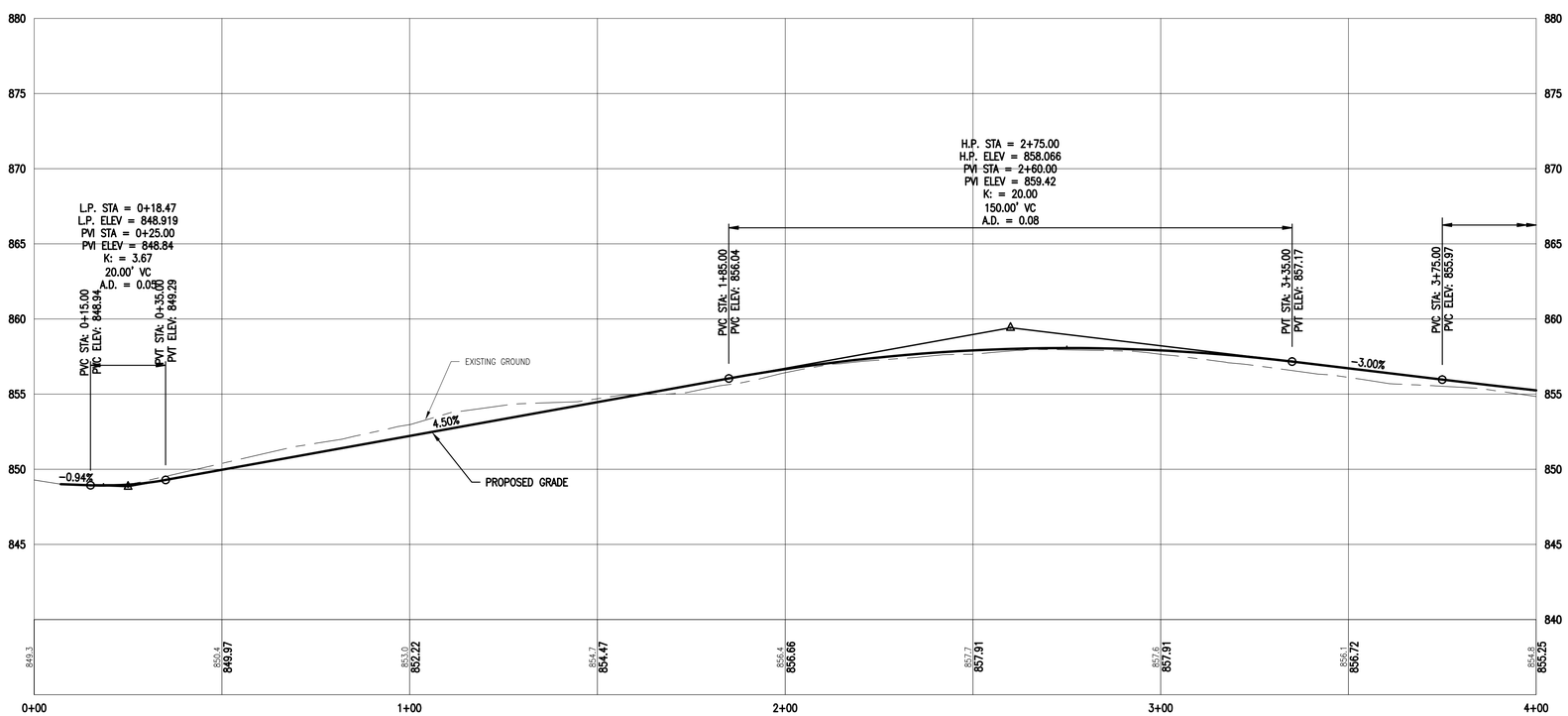


CURVE DATA 1
Δ = 28°59'18"
R = 400.00'
T = 103.40'
L=202.38'
E = 13.15'
C=200.22'
C.B.=N63° 17' 33"E
PC = 2+16.27
N:780626.0016 E:1793638.2696
PI = 3+19.67
N:780647.8767 E:1793739.3326
PT = 4+18.64
N:780715.9895 E:1793817.1331

ES1 STA. 1+77.86, 5.21 LT.
EX. SANITARY MANHOLE
GRATE ELEV. 855.45
36" W INV 826.40
36" E INV 826.40

NOTE:
1) FOR WATER MAIN DETAILS, SEE SHEETS 25, 26, AND 27.



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	648150010	SEH	DSM	SEH	DELAWARE	DUBLIN	H:	V:	

DEER RUN LAND, LLC
DEER RUN - SUBAREA B FINAL DEVELOPMENT PLAN
PLAN AND PROFILE - SUBAREA B

SHEET 22 OF 31

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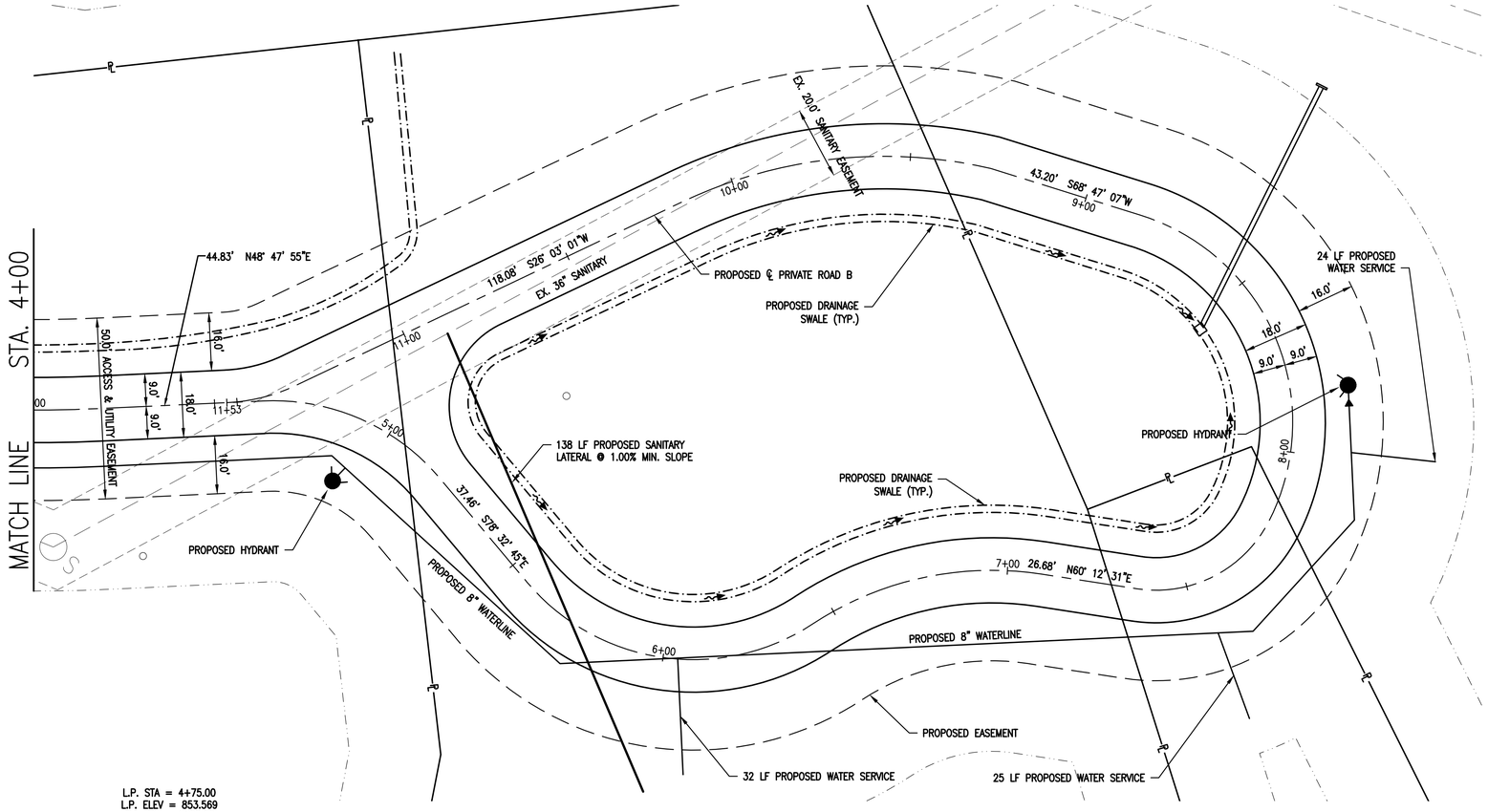

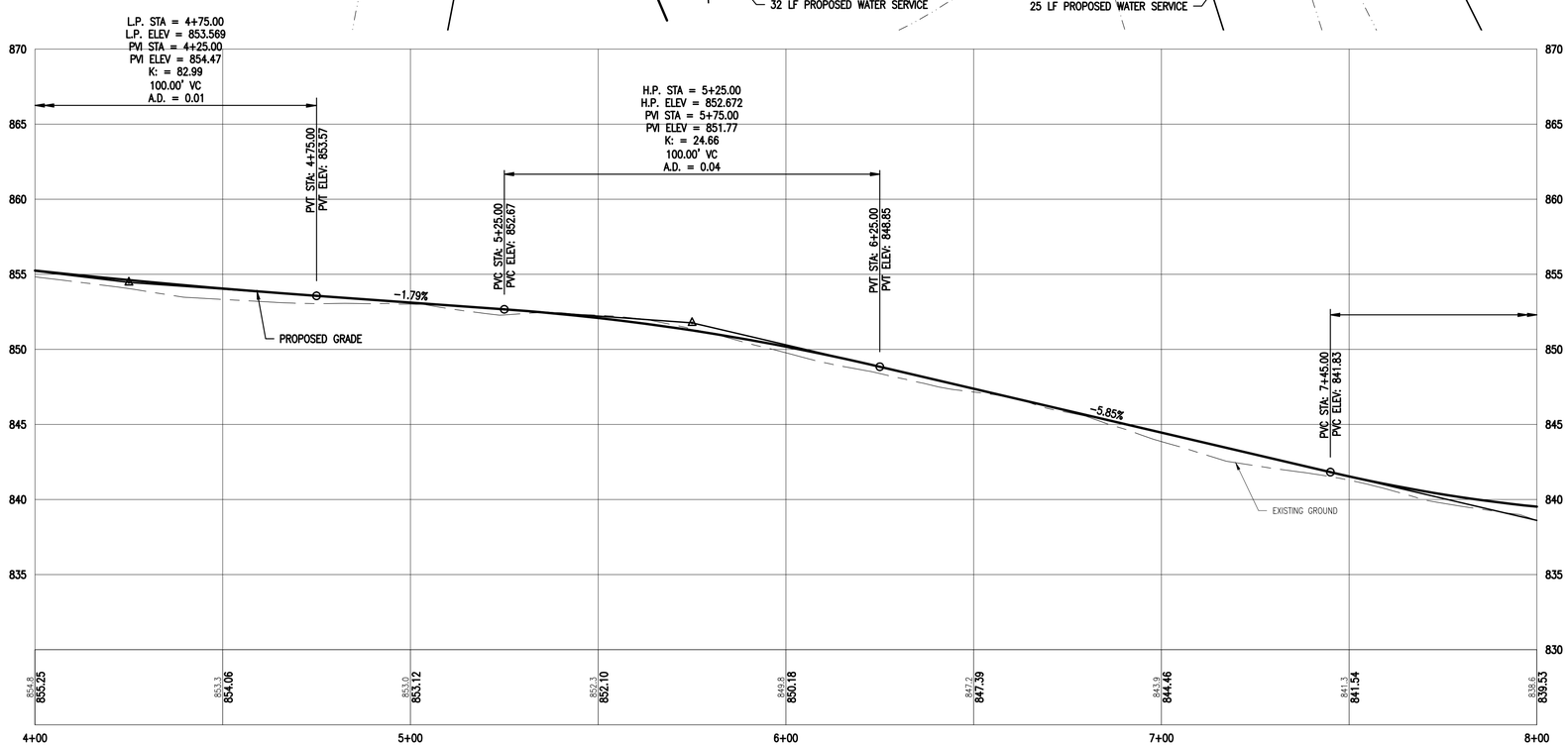

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T = 29.69'
L=55.14'
E = 6.94'
C=53.22'
C.B.=N75° 07' 35"E
PC = 4+63.47
N:780745.5177 E:1793850.8611
PI = 4+93.16
N:780765.0749 E:1793873.1999
PT = 5+18.61
N:780759.1789 E:1793902.2988

CURVE DATA 3
Δ = 83°19'20"
R = 60.00'
T = 53.39'
L=87.25'
E = 20.31'
C=79.77'
C.B.=N59° 47' 35"E
PC = 5+56.07
N:780751.7394 E:1793939.0149
PI = 6+09.46
N:780741.1379 E:1793991.3369
PT = 6+43.33
N:780791.8720 E:1794007.9506

CURVE DATA 4
Δ = 42°04'36"
R = 90.00'
T = 34.62'
L=66.09'
E = 6.43'
C=64.62'
C.B.=N39° 10' 13"E
PC = 6+43.33
N:780791.8720 E:1794007.9506
PI = 6+77.94
N:780824.7699 E:1794018.7236
PT = 7+09.42
N:780841.9691 E:1794048.7655

CURVE DATA 5
Δ = 71°34'54"
R = 35.00'
T = 25.23'
L=43.73'
E = 8.15'
C=40.94'
C.B.=N24° 25' 04"E
PC = 7+36.11
N:780855.2268 E:1794071.9228
PI = 7+61.34
N:780867.7643 E:1794093.8220
PT = 7+79.83
N:780892.5030 E:1794088.8460

CURVE DATA 6
Δ = 99°47'55"
R = 60.00'
T = 71.25'
L=104.51'
E = 33.15'
C=91.79'
C.B.=N61° 18' 55"W
PC = 7+79.83
N:780892.5030 E:1794088.8460
PI = 8+51.08
N:780962.3439 E:1794074.7432
PT = 8+84.34
N:780936.5610 E:1794008.3213

CURVE DATA 7
Δ = 38°29'31"
R = 130.00'
T = 45.39'
L=87.34'
E = 7.70'
C=85.70'
C.B.=S45° 17' 47"W
PC = 9+27.54
N:780920.9288 E:1793968.0497
PI = 9+72.93
N:780901.4191 E:1793927.0689
PT = 10+14.88
N:780860.6423 E:1793907.1363

CURVE DATA 8
Δ = 22°44'53"
R = 50.00'
T = 10.06'
L=19.85'
E = 1.00'
C=19.72'
C.B.=S37° 25' 28"W
PC = 11+32.96
N:780754.5541 E:1793855.2782
PI = 11+43.02
N:780745.5177 E:1793850.8611
PT = 11+52.81
N:780738.8922 E:1793843.2933

0 20 40 FEET

NOTE:
1) FOR WATER MAIN DETAILS, SEE SHEETS 25, 26, AND 27.

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REVISIONS:
01/04/2016 - REVISIONS PER CITY OF DUBLIN COMMENTS

DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE
	648150010	SEH	DSM	SEH	DELAWARE	DUBLIN	H: V:

HORIZ DATUM VERT DATUM

DEER RUN LAND, LLC
DEER RUN - SUBAREA B FINAL DEVELOPMENT PLAN

PLAN AND PROFILE - SUBAREA B

SHEET 23 OF 31

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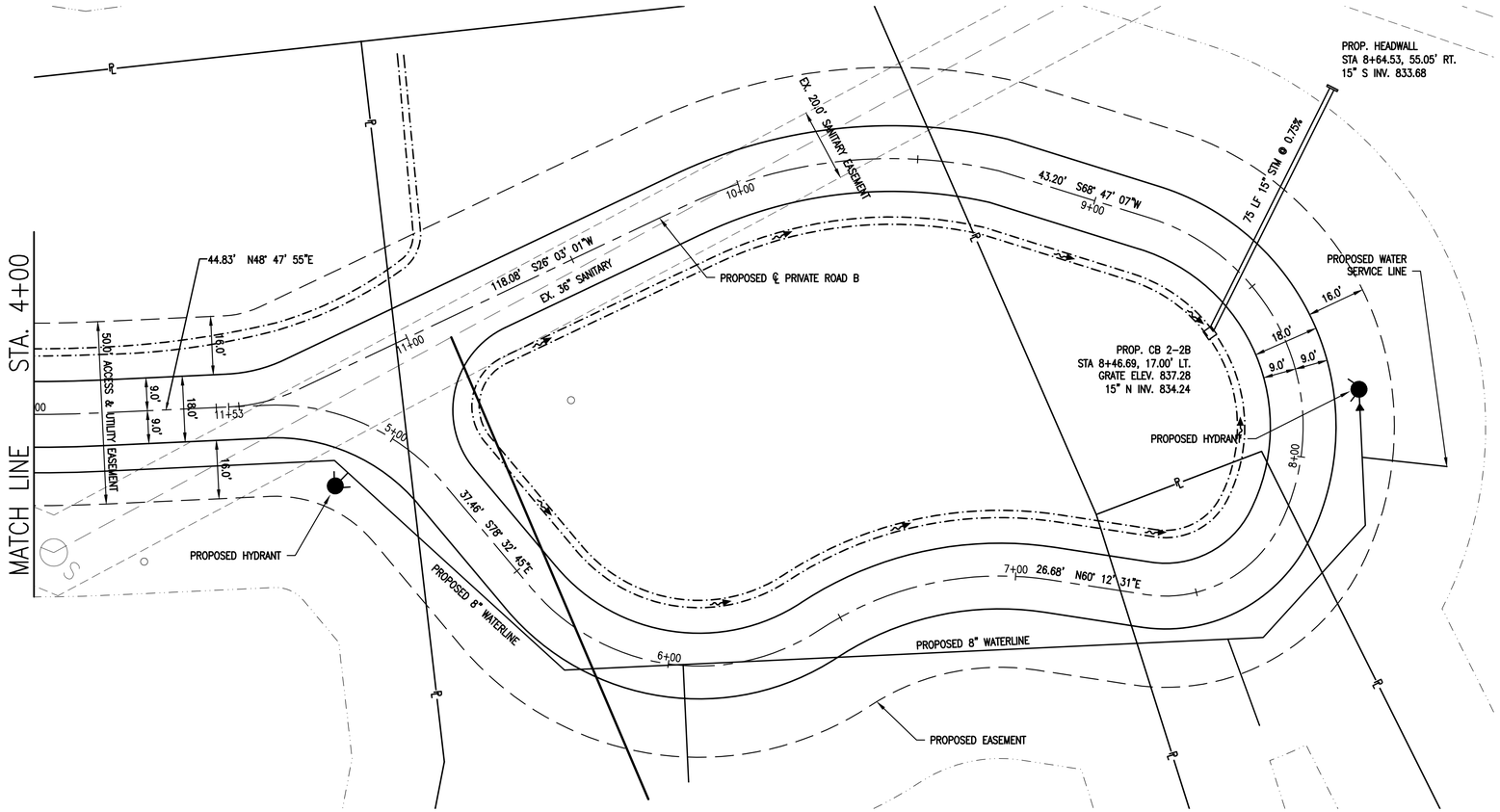

CURVE DATA 2
Δ = 52°39'21"
R = 60.00'
T = 29.69'
L=55.14'
E = 6.94'
C=53.22'
C.B.=N75° 07' 35"E
PC = 4+63.47
N:780745.5177 E:1793850.8611
PI = 4+93.16
N:780765.0749 E:1793873.1999
PT = 5+18.61
N:780759.1789 E:1793902.2988

CURVE DATA 3
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N:780741.1379 E:1793991.3369
PT = 6+43.33
N:780791.8720 E:1794007.9506

CURVE DATA 4
Δ = 42°04'36"
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T = 34.62'
L=66.09'
E = 6.43'
C=64.62'
C.B.=N39° 10' 13"E
PC = 6+43.33
N:780791.8720 E:1794007.9506
PI = 6+77.94
N:780824.7699 E:1794018.7236
PT = 7+09.42
N:780841.9691 E:1794048.7655

CURVE DATA 5
Δ = 71°34'54"
R = 35.00'
T = 25.23'
L=43.73'
E = 8.15'
C=40.94'
C.B.=N24° 25' 04"E
PC = 7+36.11
N:780855.2268 E:1794071.9228
PI = 7+61.34
N:780867.7643 E:1794093.8220
PT = 7+79.83
N:780892.5030 E:1794088.8460

CURVE DATA 6
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PI = 9+72.93
N:780901.4191 E:1793927.0689
PT = 10+14.88
N:780860.6423 E:1793907.1363

CURVE DATA 8
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R = 50.00'
T = 10.06'
L=19.85'
E = 1.00'
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C.B.=S37° 25' 28"W
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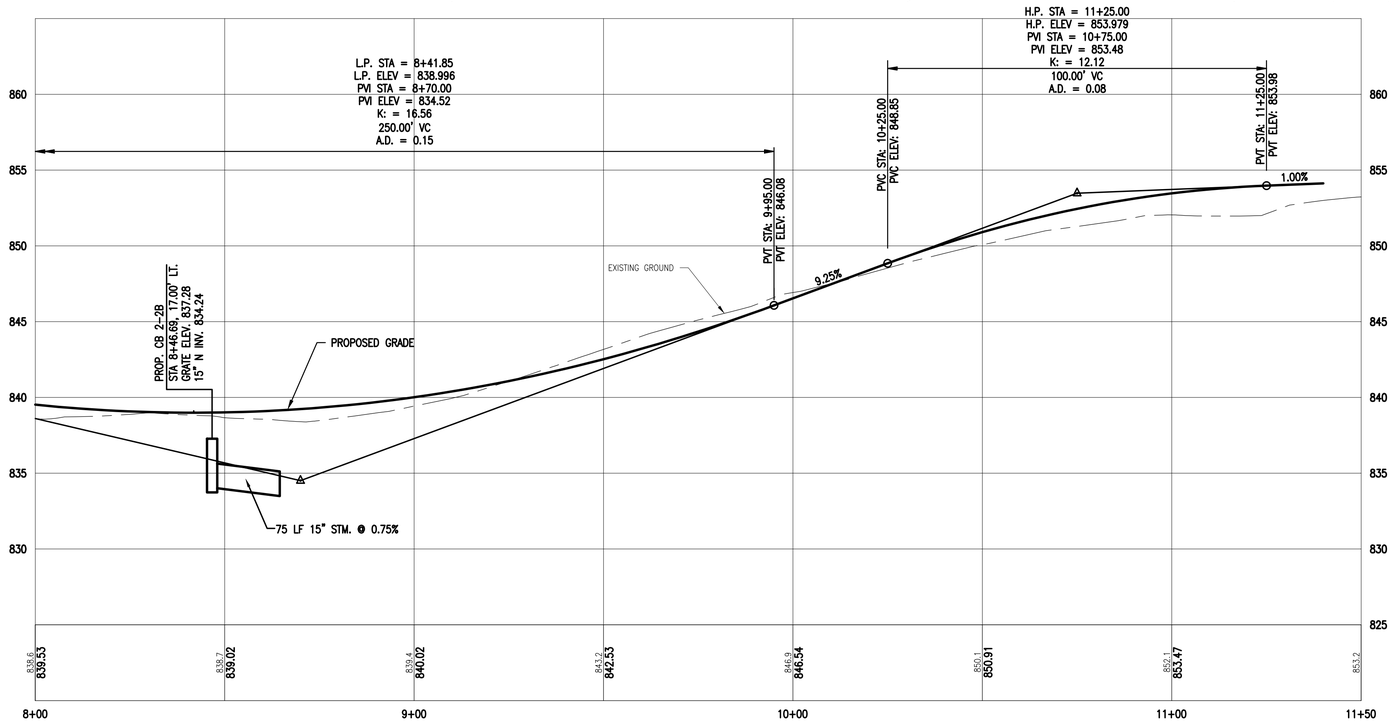
N:780754.5541 E:1793855.2782
PI = 11+43.02
N:780745.5177 E:1793850.8611
PT = 11+52.81
N:780738.8922 E:1793843.2933

0 20 40 FEET

NOTE:
1) FOR WATER MAIN DETAILS, SEE SHEETS 25, 26, AND 27.



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01/04/2016 - REVISIONS PER CITY OF DUBLIN COMMENTS

DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	HORIZ DATUM	VERT DATUM
	648115010	SEH	DSM	SEH	DELAWARE	DUBLIN	H: V:		

DEER RUN LAND, LLC
DEER RUN - SUBAREA B FINAL DEVELOPMENT PLAN

PLAN AND PROFILE - SUBAREA B

SHEET 24 OF 31

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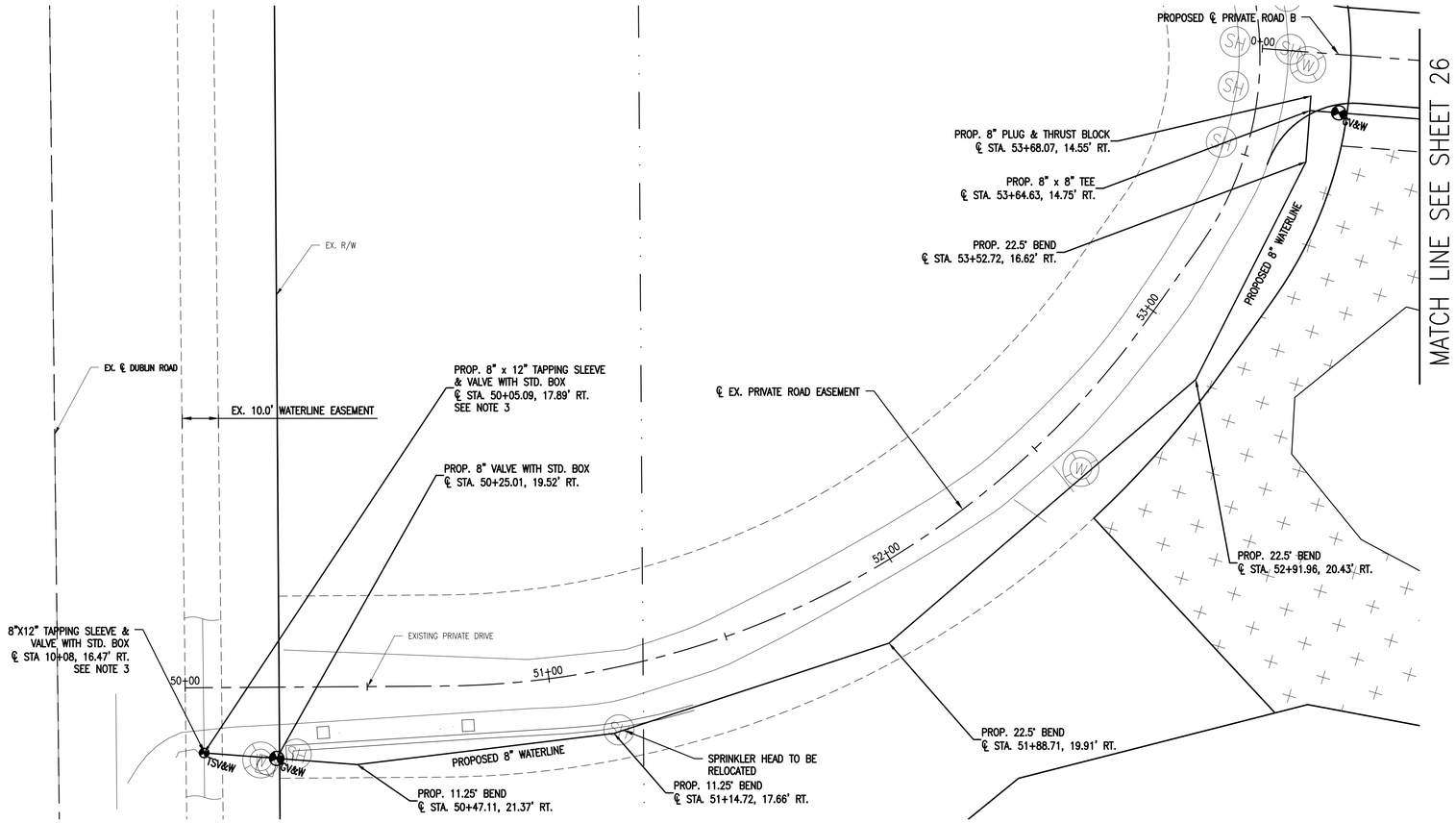
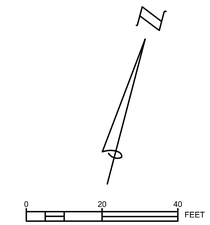
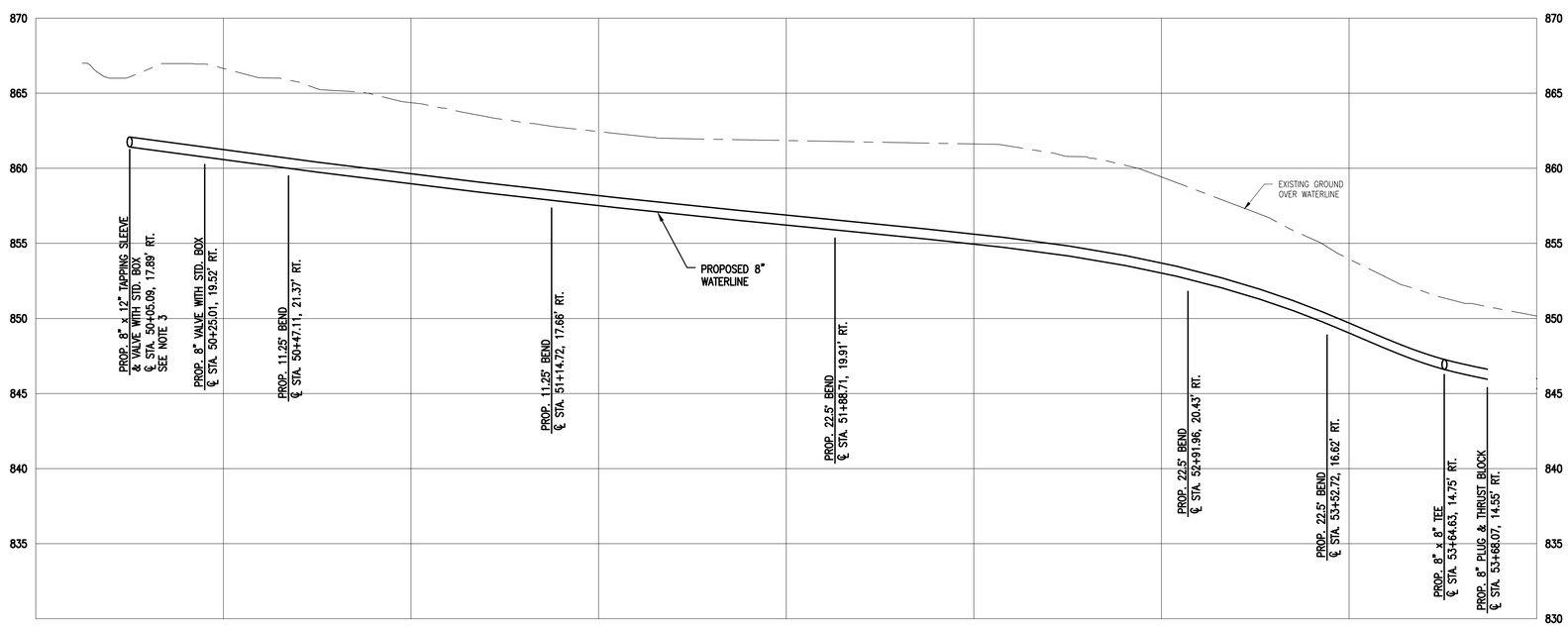




NOTES:

1. WATERLINE INSTALLATION IN ACCORDANCE WITH CITY OF COLUMBUS STANDARD DETAIL DRAWINGS FOR DISTRIBUTION SYSTEMS.
2. ALL BENDS AND TEES SHALL BE BACKED IN ACCORDANCE WITH CITY OF COLUMBUS STANDARD DETAILS L-6310, L-6311, AND L-6312.
3. EXISTING WATERLINE TO BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. EXISTING WATERLINE LOCATION IS APPROXIMATE.



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HORIZ DATUM VERT DATUM

DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	H:	SCALE	V:
	648115010	SSH	DSM	SSH	DELAWARE	DUBLIN			

DEER RUN LAND, LLC
DEER RUN - SUBAREA B FINAL DEVELOPMENT PLAN

WATERLINE PLAN & PROFILE - SUBAREA B

SHEET 25 OF 31

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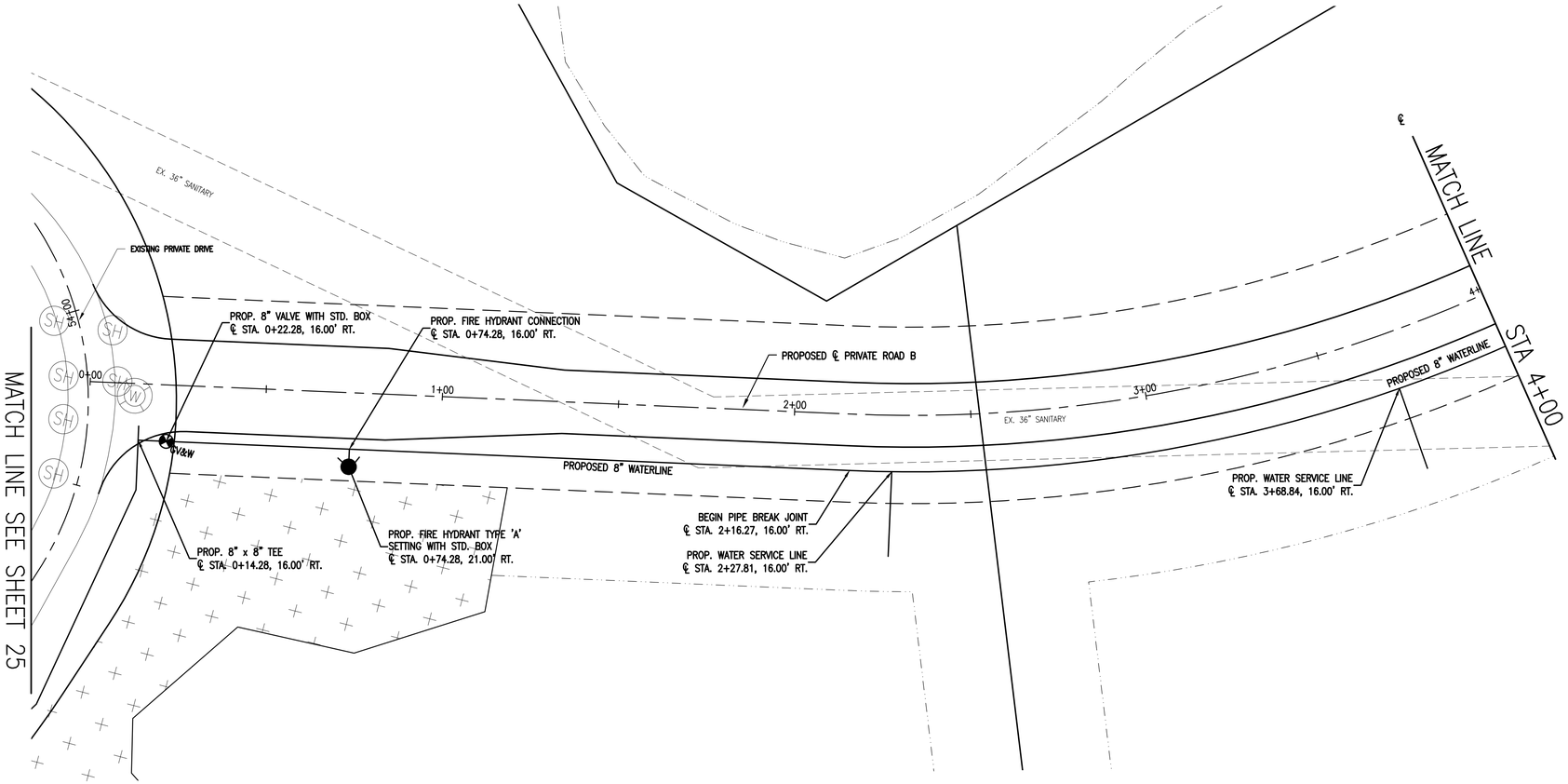

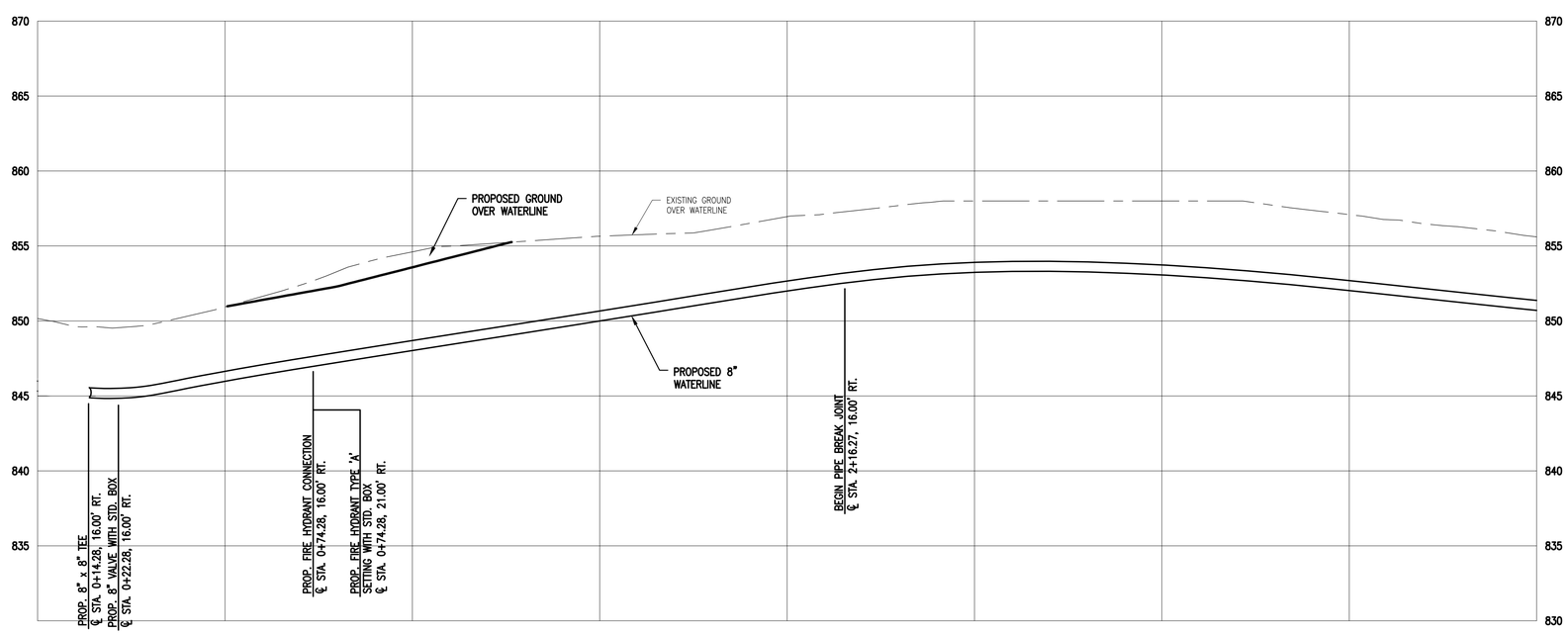

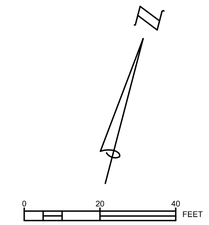

NOTES:

1. WATERLINE INSTALLATION IN ACCORDANCE WITH CITY OF COLUMBUS STANDARD DETAIL DRAWINGS FOR DISTRIBUTION SYSTEMS.
2. ALL BENDS AND TEES SHALL BE BACKED IN ACCORDANCE WITH CITY OF COLUMBUS STANDARD DETAILS L-6310, L-6311, AND L-6312.
3. FIRE HYDRANTS SHALL BE A MIN. OF 5' OFF THE EDGE OF PAVEMENT.

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DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	HORIZ DATUM	VERT DATUM
	648150010	SEH	DSM	SEH	DELAWARE	DUBLIN	H:	V:	

DEER RUN LAND, LLC
DEER RUN - SUBAREA B FINAL DEVELOPMENT PLAN

WATERLINE PLAN & PROFILE - SUBAREA B

SHEET 26 OF 31

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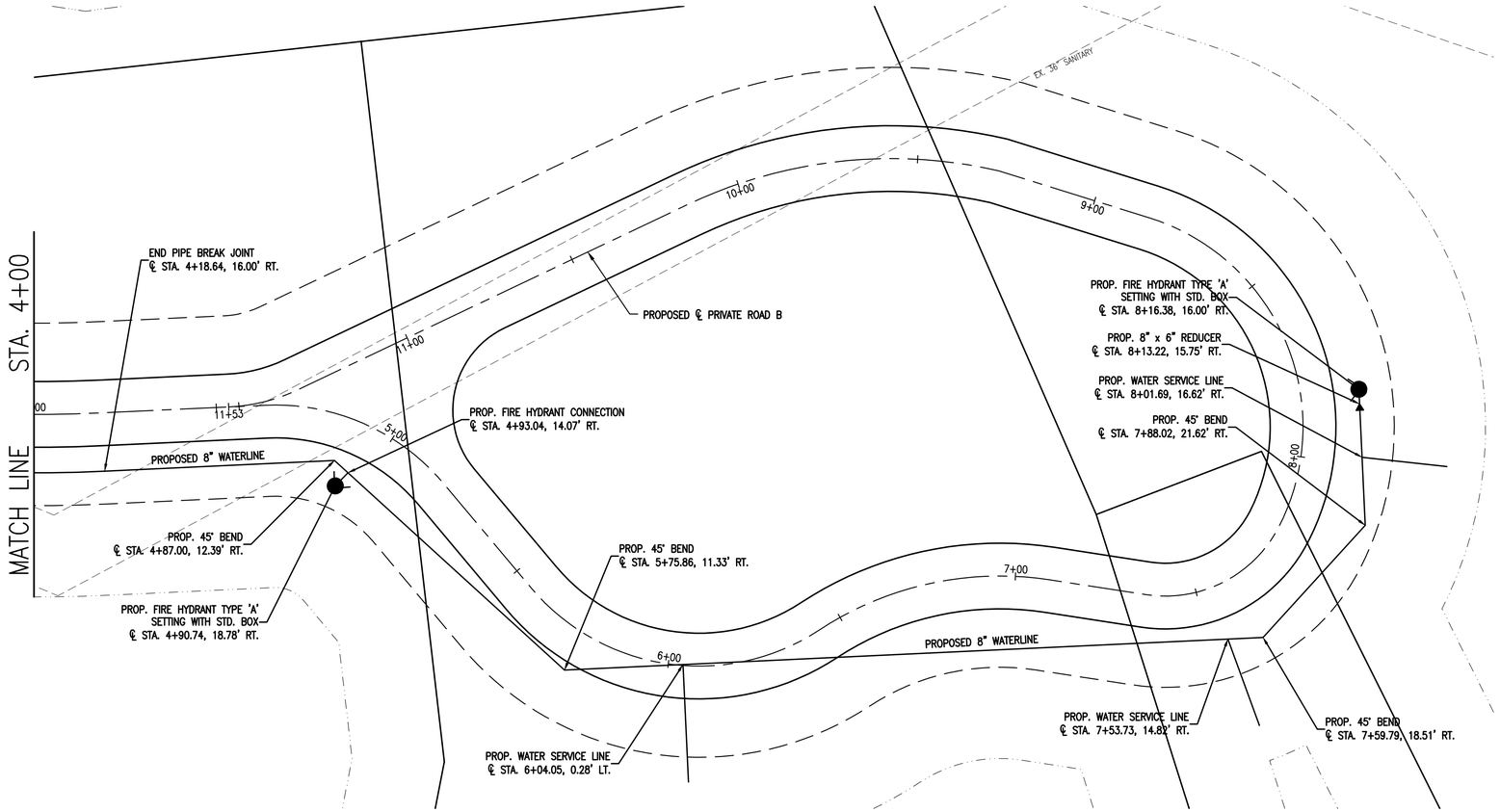
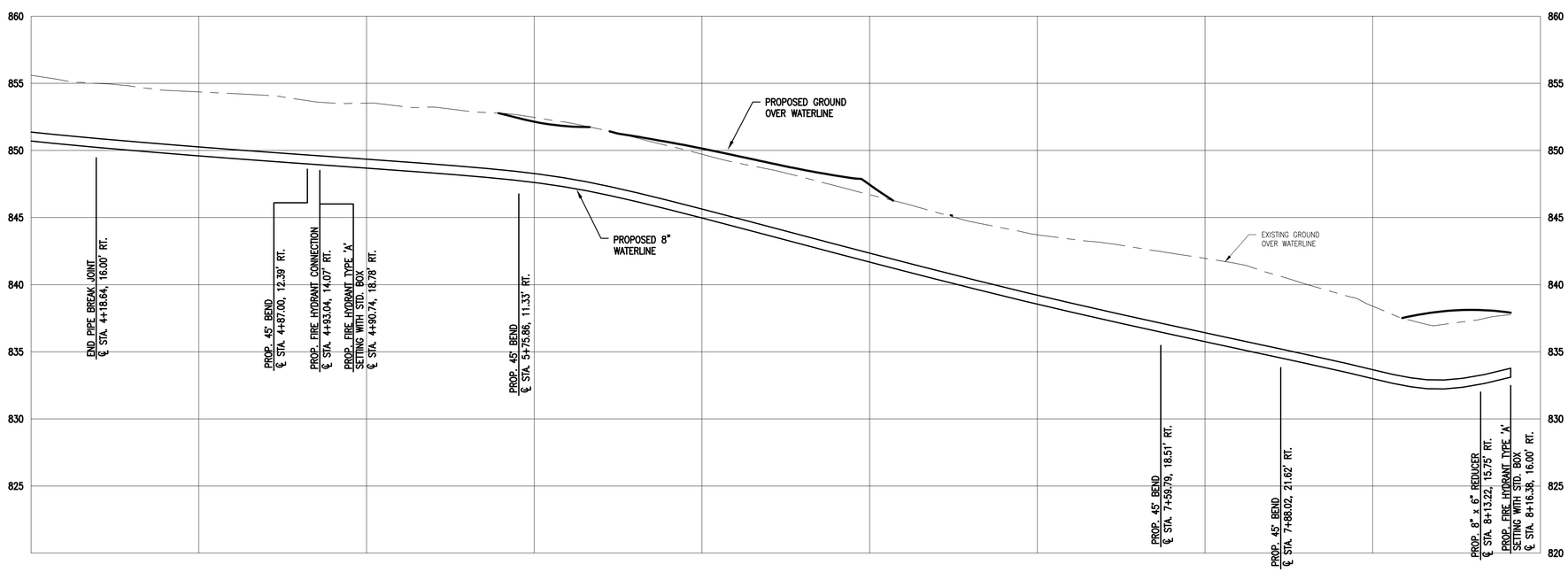


NOTES:

1. WATERLINE INSTALLATION IN ACCORDANCE WITH CITY OF COLUMBUS STANDARD DETAIL DRAWINGS FOR DISTRIBUTION SYSTEMS.
2. ALL BENDS AND TEES SHALL BE BACKED IN ACCORDANCE WITH CITY OF COLUMBUS STANDARD DETAILS L-6310, L-6311, AND L-6312.
3. FIRE HYDRANTS SHALL BE A MIN. OF 5' OFF THE EDGE OF PAVEMENT.



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DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	HORIZ DATUM	VERT DATUM
	648115010	SEH	DSM	SEH	DELAWARE	DUBLIN	H: V:		

DEER RUN LAND, LLC
DEER RUN - SUBAREA B FINAL DEVELOPMENT PLAN

WATERLINE PLAN & PROFILE - SUBAREA B

SHEET 27 OF 31

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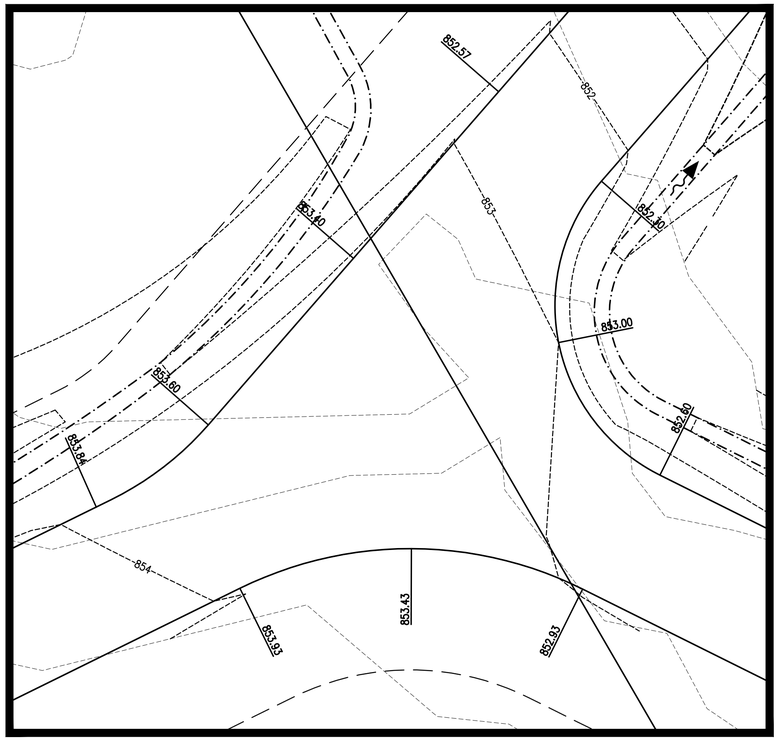


INTERSECTION DETAIL

SCALE: 1"=10'

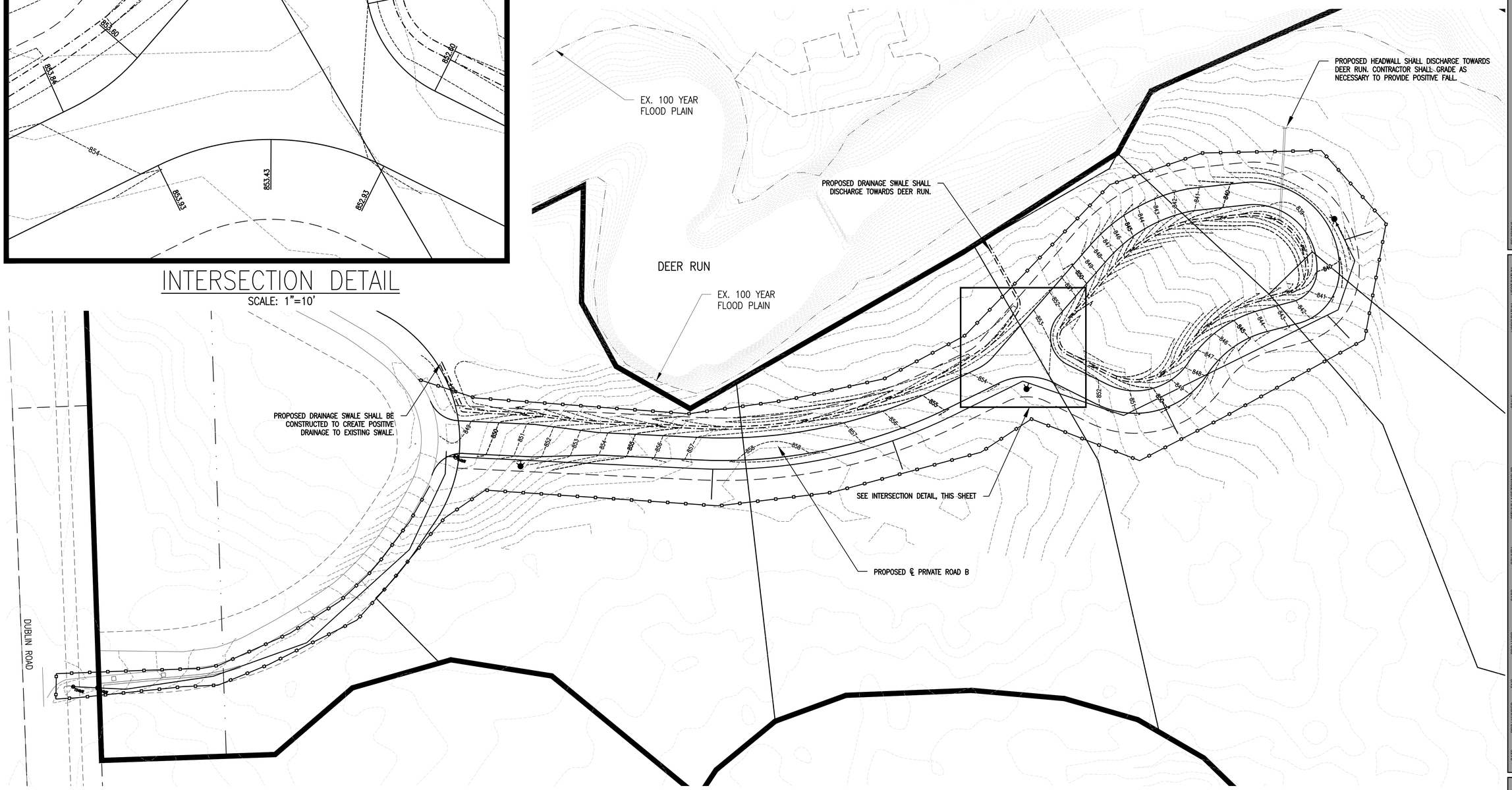
LEGEND:

ORANGE SEDIMENT FENCE/LIMITS OF GRADING

0 40 80 FEET

SUBAREA B

SCALE: 1"=40'



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	648150010	SEH	DSM	SEH	DELAWARE	DUBLIN	H:	V:	

DEER RUN LAND, LLC

DEER RUN - SUBAREA B FINAL DEVELOPMENT PLAN

GRADING PLAN - SUBAREA B

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DEER RUN - SUBAREA B FINAL DEVELOPMENT PLAN

LANDSCAPE PLAN - SUBAREA B

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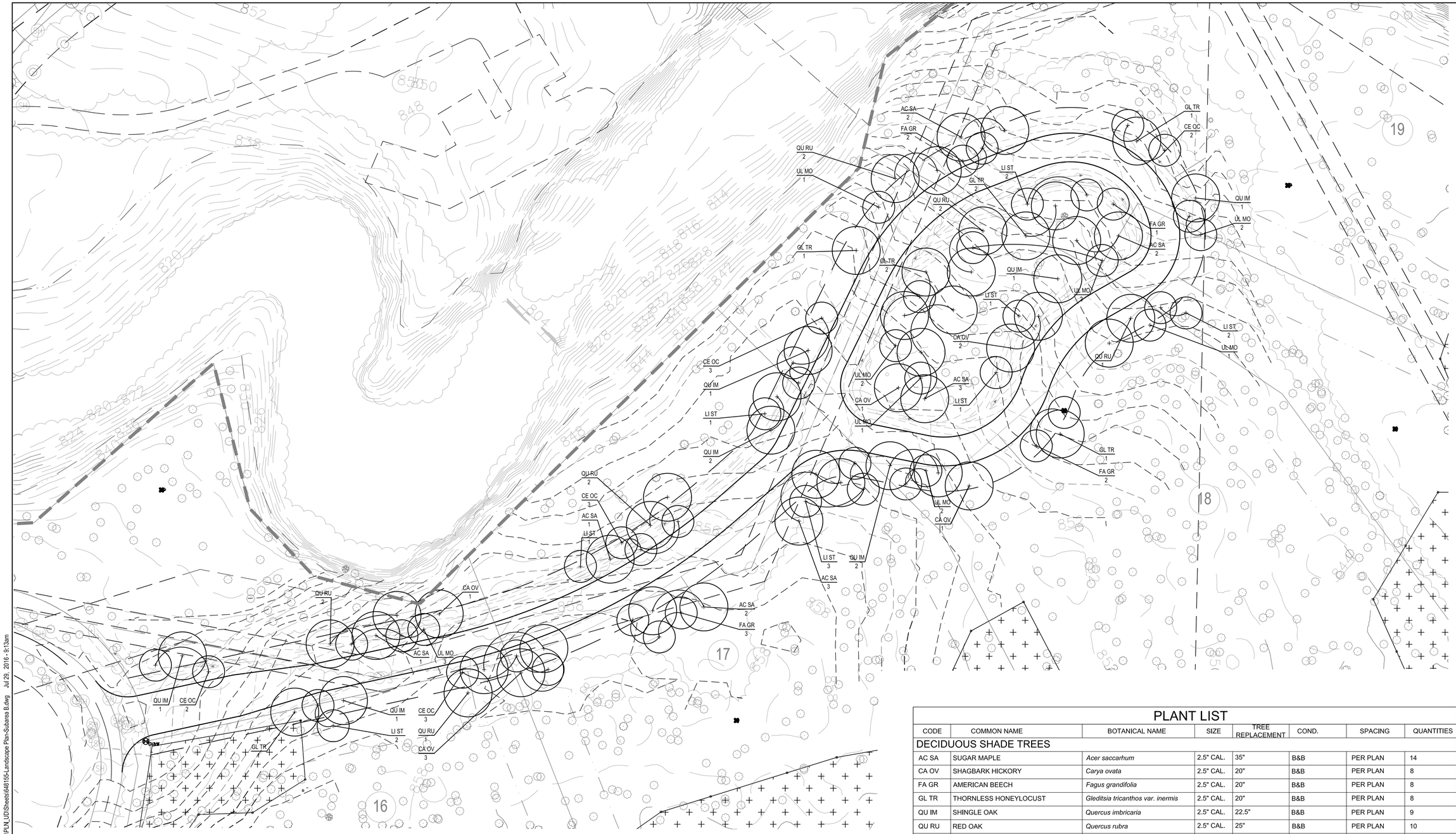

PLANT LIST

CODE	COMMON NAME	BOTANICAL NAME	SIZE	TREE REPLACEMENT	COND.	SPACING	QUANTITIES
DECIDUOUS SHADE TREES							
AC SA	SUGAR MAPLE	*Acer saccarhum*	2.5" CAL.	35"	B&B	PER PLAN	14
CA OV	SHAGBARK HICKORY	*Carya ovata*	2.5" CAL.	20"	B&B	PER PLAN	8
FA GR	AMERICAN BEECH	*Fagus grandifolia*	2.5" CAL.	20"	B&B	PER PLAN	8
GL TR	THORNLESS HONEYLOCUST	*Gleditsia tricanthos var. inermis*	2.5" CAL.	20"	B&B	PER PLAN	8
QU IM	SHINGLE OAK	*Quercus imbricaria*	2.5" CAL.	22.5"	B&B	PER PLAN	9
QU RU	RED OAK	*Quercus rubra*	2.5" CAL.	25"	B&B	PER PLAN	10
UL MO	MORTON ELM	*Ulmus 'morton'*	2.5" CAL.	35"	B&B	PER PLAN	14
CE OC	PRAIRIE PRIDE COMMON HACKBERRY	*Celtic occidentails 'Prairie Pride'*	2.5" CAL.	32.5"	B&B	PER PLAN	13
LI ST	SWEETGUM	*Liquidambar styraciflua*	2.5" CAL.	32.5"	B&B	PER PLAN	13
		TOTAL TREE REPLACEMENT INCHES		242.5"			
		TOTAL TREES PROVIDED		97			

TREE REPLACEMENT REQUIREMENTS

REPLACEMENT TREES	REQUIRED	PROVIDED
ANY TREE IN GOOD OR FAIR CONDITION GREATER THAN 18 INCHES (DBH) REMOVED FROM THE SITE SHALL BE REPLACED ON AN INCH FOR INCH BASIS (MIN. 2.5 IN CAL.) *ORNAMENTAL AND EVERGREEN TREES DO NO FULFILL REQUIREMENT	457 CALIPER INCHES TO BE REPLACED	230 CALIPER INCHES PROVIDED (92 TREES AT 2.5" CALIPER)
ANY TREE IN GOOD OR FAIR CONDITION BETWEEN 6 AND 18 INCHES (DBH) REMOVED FROM COMMON OPEN SPACE MUST BE REPLACED ON A TREE FOR TREE BASIS (MIN. 2.5 IN CAL.) *ORNAMENTAL AND EVERGREEN TREES DO NO FULFILL REQUIREMENT	5 TREES REMOVED	5 TREES AT 2.5" CALIPER PROVIDED (12.5" TOTAL)

*THE REMAINING 227 CALIPER INCHES WILL BE MET BY A PER CALIPER INCH FEE.

0' 15' 30' 60'

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7/29/2016 REVISIONS PER COMMENTS FROM CITY OF DUBLIN

DATE 7/29/2016 | PROJ NUMBER 648115010 | ARCH STAFF | PROJ MAGR STAFF | CADD STAFF

DEER RUN LAND, LLC
DEER RUN - SUBAREA B FINAL DEVELOPMENT PLAN

LANDSCAPE PLAN - SUBAREA B

SHEET 30 OF 31

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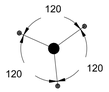
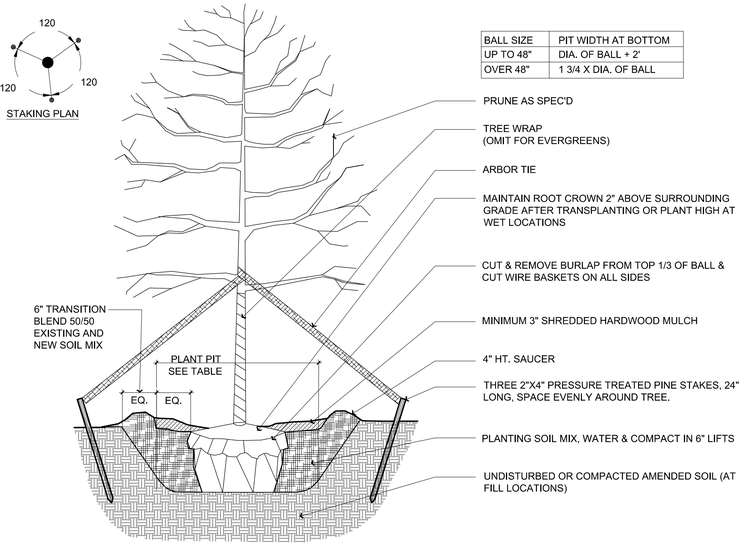
NOTES:

1. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
2. FINAL TREE STAKING PLACEMENT TO BE APPROVED BY OWNER.
3. DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED, HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
4. MARK THE NORTH SIDE OF THE TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH AT THE SITE WHEN EVER POSSIBLE.
5. IF PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, CUT THE WIRE BASKET IN FOUR PLACES AND FOLD DOWN (8 IN.) INTO PLANTING HOLE.
6. REMOVE ALL TWINE, ROPE, WIRE AND BURLAP FROM TOP HALF OF ROOTBALL.
7. SET TREE PLUMB IN PLANTING PIT.
8. EACH TREE MUST BE PLANTED SUCH THAT THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. TREES WHERE THE TRUNK FLARE IS NOT VISIBLE SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL.

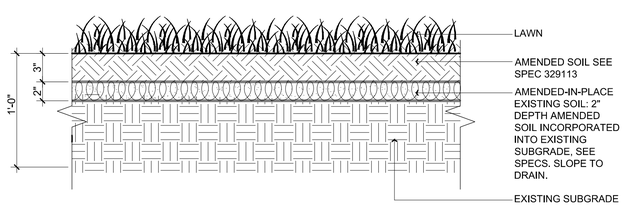


STAKING PLAN

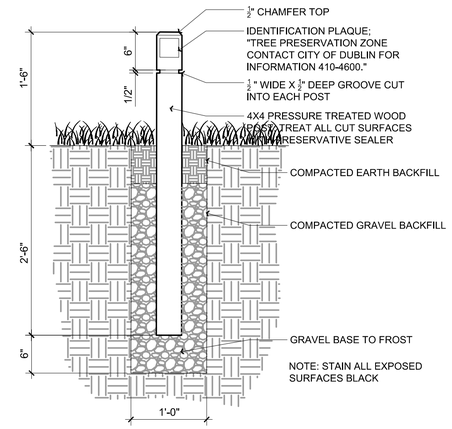


BALL SIZE	PIT WIDTH AT BOTTOM
UP TO 48"	DIA. OF BALL + 2'
OVER 48"	1 3/4 X DIA. OF BALL

1 TREE PLANTING
SCALE: 1/2" = 1'-0"



2 FILL SYSTEM TYPE 1 - TURF GRASS
SCALE: 1 1/2" = 1'-0"



3 TREE PRESERVATION BOUNDARY MARKER
SCALE: 1" = 1'-0"

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DEER RUN LAND, LLC
DEER RUN - SUBAREA B FINAL DEVELOPMENT PLAN

LANDSCAPE DETAILS

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EXISTING GRAVEL TOP-DRESS MATERIAL

EXISTING GRAVEL DRIVE CHARACTER

EXISTING GRAVEL DRIVE

To maintain the character of the existing drive, the streets shall be top-dressed with gravel to match the existing material.

EXISTING GRAVEL DRIVE CHARACTER

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OHM Advancing Communities®

Stormwater Management Plan

Deer Run Subarea B

City of Dublin, Ohio

July 2016

OHM Advisors
580 NORTH FOURTH STREET, SUITE 610
COLUMBUS, OH 43215

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F 614.418.0614

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OHM Advancing Communities

Stormwater Management Plan

Deer Run
Subarea B

City of Dublin, Ohio

Prepared By:

OHM Advisors
580 North Fourth Street, Suite 610
Columbus, Ohio 43215

I hereby certify that the calculation contained herein are accurate to the best of my knowledge and belief.

STATE OF OHIO
SCOTT R. BICKLEY
E-71470
REGISTERED PROFESSIONAL ENGINEER

Scott R. Bickley, P.E.

7/8/16
Date

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III. Hydrologic Analysis Method 4
IV. Pre Developed Conditions 4
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VII. Maintenance and Inspection 7
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EXHIBITS

Exhibit 2 – Subarea B 5

I. Project Summary

Project Name: Deer Run Subarea B
Location: Dublin, Ohio
Type: Stormwater Management Plan
Reviewing Agency: City of Dublin

Hydrological Analysis Method:

This report uses the unit hydrograph method described in the National Engineering Handbook (NEH) using the Natural Resources Conservation Service (NRCS) Type II 24-hr design storm. Requirements for the post construction quantity/quality control are per the City of Dublin Stormwater Management Design Manual, June 2013. Post construction quality control shall be designed according to the Ohio EPA General Permit Authorization for Storm Water Discharges Associated with Construction Activity Under the National Pollutant Discharge Elimination System (NPDES). HydroCAD Version 10.00 was the design software used for the analysis.

Rainfall data used (per the City of Dublin Stormwater Management Design Manual):

Rainfall Depths						
1-yr	2-yr	5-yr	10-yr	25-yr	50-yr	100-yr
2.20 in.	2.63 in.	3.24 in.	3.74 in.	4.44 in.	5.02 in.	5.63 in.

Proposed Design Overview:

Water Quantity: Not Applicable per the City of Dublin Stormwater Management Design Manual, Chapter 2, Section 2.A.1.a
Water Quality: Bioretention Swale
Receiving Body of Water: Subarea B – Deer Run

II. Introduction

The design and analysis described within the contents of this Stormwater Management Report is for the construction project of Deer Run Road Subarea B in which private road is being constructed to provide access to proposed estate lots located in this area. The overall project construction consists of one subarea, Subarea B. The overall development areas for Subarea B is 16.1 acres that will allow for the development of 5 total estate lots. The Deer Run Subarea B project development consists of the construction of the roadway to provide access to these proposed estate lots, still yet to be designed and developed. In Subarea B, the roadway construction consists of 2.17 acres of the overall 16.1 acres (4.07 acres is still available for proposed estate lots development). The project is located off of Dublin Rd on the existing Deer Run Rd. with Subarea A located north of Deer Run and Subarea B located south of Deer Run. The intent of the project is to develop the existing wooded areas into several proposed estate lots for residential use.

The runoff from the roadway will be collected in a Bioretention swale to address quality requirements. In Subarea B, the runoff is collected in a bioretention swale and outlets to Deer Run.

III. Hydrologic Analysis Method

The design and analysis of the stormwater plan were completed using the unit hydrograph method described in the National Engineering Handbook (NEH) using the Natural Resources Conservation Service (NRCS) Type II 24-hr design storm. From the NRCS tables provided, the runoff curve number was determined as well as the method of calculating the time of concentration. From this, the 1, 2, 5, 10, 25, 50, and 100-year storm discharges were calculated using the Hydraflow Hydrographs program.

IV. Pre Developed Conditions

The overall pre-developed condition for Subarea B consists of 16.1 acres to be rezoned. This land consists of wooded area with moderate ground cover in Type “D” Soils (Glynwood Clay Loam and End Moraine) which corresponds to the runoff Curve Number 83. The time of concentration for the pre-developed area is 5.08 minutes. Calculations for the time of concentration can be found in Appendix D. The information for the pre developed site conditions are shown in Table 1.

Table 1: Pre Developed Subarea Characteristics

	Area (acres)	Land Usage	Impervious Area (%)	Weighted CN	Time of Concentration (minutes)
Subarea B	2.17	Wooded, Impervious	0.02%	83	5.08

In Subarea B, the pre developed area for the roadway is located in Sub-basins 10 and 20 of the Deer Run Watershed per the City of Dublin Stormwater Master Plan. It should be noted that portions of 3 of the proposed estate lots are located outside of this watershed in the unstudied areas and shall comply with the release rates specified in Chapter 2, Section C.1.b. This shall be considered when the separate construction plans and stormwater management plans are submitted for these development lots. The approximate acreage of the proposed roadway development between the two sub-basins are listed in Table 2, as well as the respective allowable release rates.

Table 2: Allowable Release Rates

Deer Run Watershed Release Rate Requirements (from the City of Dublin Stormwater Master Plan)							
	Design Storm (CFS/ac.)						
Sub-Basin	1-year	2-year	5-year	10-year	25-year	50-year	100-year
10	0.10	0.10	0.10	0.30	0.80	1.80	2.80
20	0.10	0.10	0.10	0.40	1.60	3.10	4.40
Unstudied	< 2.0 acres, 0.20						

Allowable Release Rates per Acre								
		Design Storm (CFS/ac.)						
Sub-Basin	Area (ac.)	1-year	2-year	5-year	10-year	25-year	50-year	100-year
Subarea A								
10	0.10	0.01	0.01	0.01	0.03	0.08	0.18	0.28
Unstudied	0.59	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Subarea B								
10	0.66	0.07	0.07	0.07	0.20	0.53	1.19	1.85
20	0.47	0.05	0.05	0.05	0.19	0.75	1.46	2.07

V. Post Developed Conditions

The proposed roadway construction area is shown in Exhibit 2. For subarea B, this includes a total of 2.17-acre development of which 0.48 acres is comprised of the roadway with a gravel top course and the remaining development is the proposed grading including the bioretention swales on both sides of the roadway. Composite runoff numbers were calculated in Hydraflow and are summarized in Table 3.

Exhibits 2 shows the design of the proposed roadway in Subarea B that will provide access to the future estate lots. The remaining estate lots will be designed and will provide separate construction design plans and stormwater management plans. This project will utilize a Bioretention Swale that runs parallel to the roadway and will provide quality treatment for the project.

Table 3: Post Developed Subarea Characteristics

	Area (acres)	Land Usage	Impervious Area (%)	Weighted CN	Time of Concentration (minutes)
Subarea B	2.17	Impervious Area, Wooded Area, Grass Cover	39%	84	*Refer to the Time of Concentration Calcs in Appendix D for the respective drainage areas.

VI. Outlet Design

For Subarea B, there are three outlets for the system. Two outlets are graded to discharge to Deer Run and the last outlet is collected into a proposed storm system and discharge to a proposed swale to grade to Deer Run. All outlets are provided to minimize disturbance of the existing ground.

VII. Maintenance and Inspection

The city shall be responsible for the inspection and maintenance of the bioretention swales located alongside the proposed roadway. Inspections and maintenance that are conducted shall be documented by the city. For initial sediment control, please refer to the City of Dublin,

Stormwater Management Design Manual, Chapter 8 and the Sediment and Erosion control submitted with the proposed construction plans. The following procedures should be followed for the bioretention swales. Inspection of the storm structures to remove debris or sediment that has accumulated at the catch basins or outlet shall occur once a year. Maintenance (mowing or removal of excess sediment or debris) of the bioretention swales shall occur at a minimum on a monthly basis or more frequently if needed. More frequent maintenance may need required during the months of April through September, or during heavy rainfalls where runoff might carry debris into the swale and where grass might grow at a much higher rate. Adjustments may be made to this plan upon review of the 1st year inspection results.

VIII. Post Construction Water Quality

The project is a new construction project so water quality treatment is required for a 0.75-inch event. Water Quantity treatment is not required since the project location is located within the River Corridor as per the City of Dublin Stormwater Management Design Manual, Chapter 2, Section 2.A.1.a. For Subarea B it was 0.02% pre development and is 22% post development. By utilizing Vegetated Bioretention Swale alongside the roadway this will allow the proposed soil media to improve the water quality and will also reduce runoff rates, even though quantity treatment is not required. The 12"soil layer under the finished grade of the ditch bottom, provides enhanced infiltration and pollutant removal. Therefore, we are able to treat the required 0.75-inch event for the project. Calculations that show the required volume storage to treat this rainfall event and the storage provided for each bioretention swale are shown in the calculations for the water quality conditions can be found in Appendix B.

Appendix A

Storm Sewer Calculation Sheets

Project Name: Deer Run

Storm Sewer Calculations

Project Number: Deer Run
Date: 11/09/2015
Calculated By: ACF

STRUCTURE DATA / PIPE CALCULATIONS / HYDRAULIC GRADE CALCULATIONS

DESIGN STORM (year) = 25
ROUGHNESS COEFFICIENT n = 0.012

HYDRAULIC GRADE (year) = 10
PERCENT FULL AT OUTLET = 93%
TAILWATER ELEVATION = 834.00

STRUC. NO.	STRUC. TYPE	TOP OF CASTING FT.	INVERT IN ELEV. FT.	INVERT OUT ELEV. FT.	DEPTH OF STRUC. FT.	DRAINAGE AREA A ACRES	SUM A ACRES	C	CA ACRES	SUM CA ACRES	TIME T MIN.	SUM T MIN.	RAINFALL INTENSITY I IN. / HR.	DISCHARGE Q C.F.S.	LENGTH OF PIPE FT.	SLOPE OF PIPE FT. / FT.	SIZE OF PIPE IN.	MEAN VELOCITY F.P.S.	CAPACITY FLOWING FULL C.F.S.	PERCENT FULL %	TIME SUM T MIN.	HYDRAULIC RAINFALL INTENSITY I IN. / HR.	HYDRAULIC DISCHARGE Q C.F.S.	HYDRAULIC GRADE SLOPE FT. / FT.	HEAD LOSS COEFF. K	MINOR HEAD LOSS Hm FT.	HYDRAULIC GRADE DOWNHILL ELEV. FT.	HYDRAULIC GRADE UPHILL ELEV. FT.	DEPTH OF HYDRAULIC GRADE FT.
CB-1		837.24		834.24	3.00	1.180	1.180	0.55	0.649	0.649	10															0.0000	834.00		3.24
												10.00	6.98	4.53	75.00	0.0075	15	4.95	6.08	74.55	10.00	6.98	4.53	0.0042					

Appendix B

Post- Construction Water Quality Calculations

Deer Run Project - Dublin, OH

Functional Classification : Local Road

Subarea B RT DITCH #1

Stormwater Management Requirements

Location of Project: River Corridor

Quantity Requirements: Not applicable

Quality Requirements: 0.75 inch event

Type of Drainage System: Open Channel

Hydrologic Soil Group: D

Ditches shall be designed to carry the 10 year, 24 hr storm.

Open Channels shall be designed with one foot of freeboard above the design water surface elevation for the 10 year, 24-hour storm.

The 100 yr, 24 hour storm shall not encroach into proposed or existing residential dwellings or places of business.

Method of treating water quality for the project: *Bioretention Swale*

Pre Construction Imprevious Area	0	acres
Post Construction Impervious Area	0.11	acres
Total Area	0.47	acres
% of impervious area	23.40%	

Time of Concentration

tc = 0.12 hr

Water Quality Volume (WQv)

$$WQ_V = C * \left({}^{P}/_{12}\right) * A$$

$Where,$
$C = 0.858i^3 - 0.78i^2 + 0.774i + 0.04$
$i = fraction\ of\ post - const.impervious\ surface$
$\mathrm{P} = 0.75$ Precipitation Depth
$\mathrm{A} = \text{Area tributary to basin, acres}$

C =	0.189423	
I =	0.2340	
P =	0.75	inches
A =	0.6811	acre

WQ_V = 0.008064 ac-ft 351.2464 CU FT

WQ_V Elevation = 0.09 ft water depth in swale

Available Depth in Ditch: 1.00 FT

Available Storage in Ditch: 1,290 CU FT

Channel Report

Hydraflow Express Extension for Autodesk® AutoCAD® Civil 3D® by Autodesk, Inc. Friday, Jul 8 2016

B-RT1

Trapezoidal

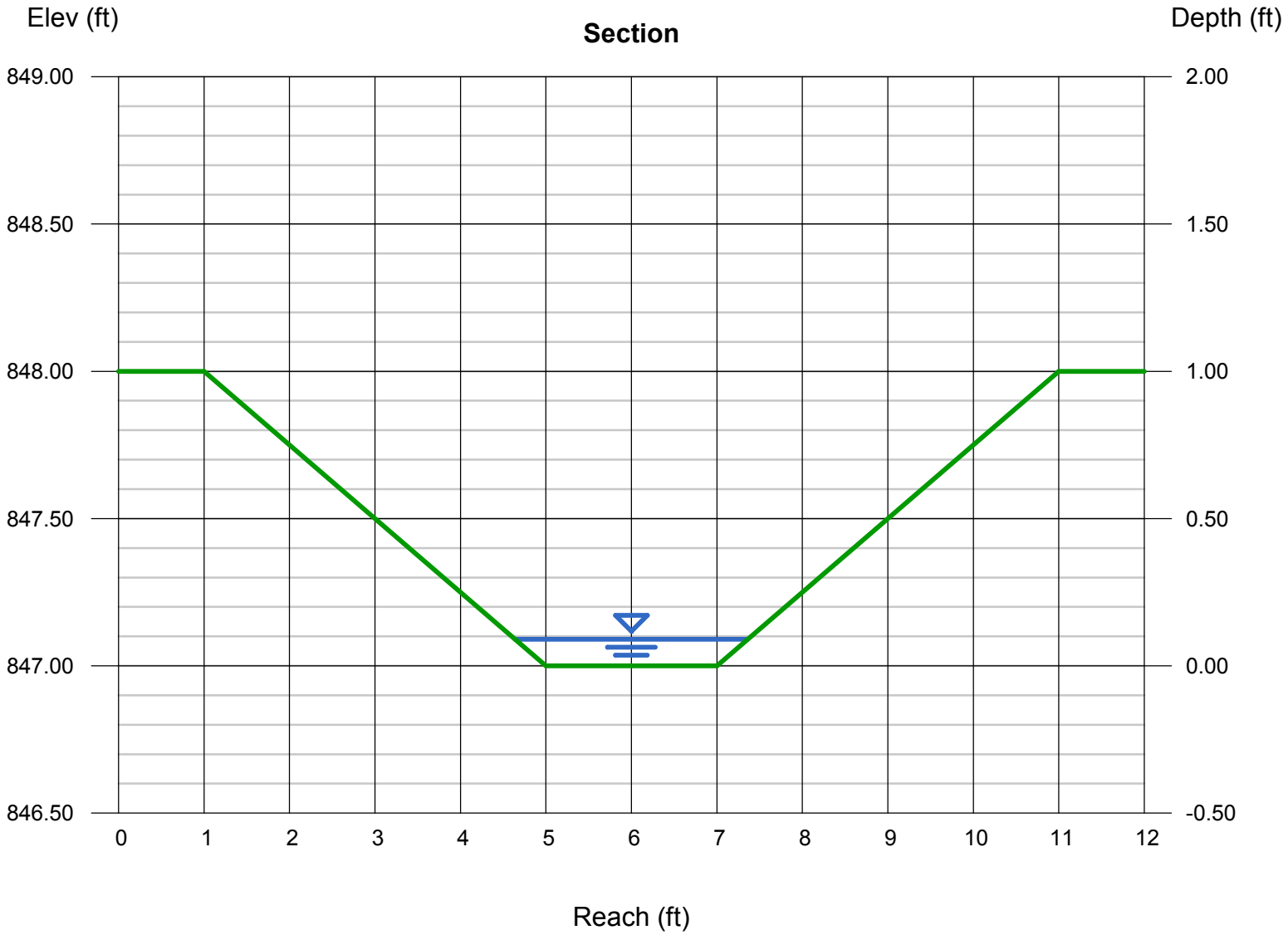
Bottom Width (ft)	= 2.00
Side Slopes (z:1)	= 4.00, 4.00
Total Depth (ft)	= 1.00
Invert Elev (ft)	= 847.00
Slope (%)	= 9.25
N-Value	= 0.030

Calculations

Compute by:	Known Q
Known Q (cfs)	= 0.54

Highlighted

Depth (ft)	= 0.09
Q (cfs)	= 0.535
Area (sqft)	= 0.21
Velocity (ft/s)	= 2.52
Wetted Perim (ft)	= 2.74
Crit Depth, Yc (ft)	= 0.12
Top Width (ft)	= 2.72
EGL (ft)	= 0.19



Deer Run Project - Dublin, OH

Functional Classification : Local Road

Subarea B LT DITCH #1

Stormwater Management Requirements

Location of Project: River Corridor
Quantity Requirements: Not applicable
Quality Requirements: 0.75 inch event

Type of Drainage System: Open Channel
Hydrologic Soil Group: D

Ditches shall be designed to carry the 10 year, 24 hr storm.
Open Channels shall be designed with one foot of freeboard above the design water surface elevation for the 10 year, 24-hour storm.
The 100 yr, 24 hour storm shall not encroach into proposed or existing residential dwellings or places of business.

Method of treating water quality for the project: *Bioretention Swale*

Pre Construction Imprevious Area	0.028	acres
Post Construction Impervious Area	0.13	acres
Total Area	0.61	acres
% of impervious area	21.31%	

Time of Concentration

tc = 0.17 hr

Water Quality Volume (WQv)

$$WQ_V = C * \left({}^{P}/_{12}\right) * A$$

$Where,$
$C = 0.858i^3 - 0.78i^2 + 0.774i + 0.04$
$i = fraction\ of\ post - const.\ impervious\ surface$
$\mathrm{P} = 0.75 \mathrm{Precipitation\ Depth}$
$\mathrm{A} = \mathrm{Area\ tributary\ to\ basin, acres}$

C =	0.17783	
I =	0.2131	
P =	0.75	inches
A =	0.1534	acre

WQ_V = 0.001705 ac-ft 74.26726 CU FT

WQ_V Elevation = 0.12 ft water depth in swale

Available Depth in Ditch: 1.00 FT

Available Storage in Ditch: 5(1,500 CF

Channel Report

Hydraflow Express Extension for Autodesk® AutoCAD® Civil 3D® by Autodesk, Inc. Friday, Jul 8 2016

B-LT1

Trapezoidal

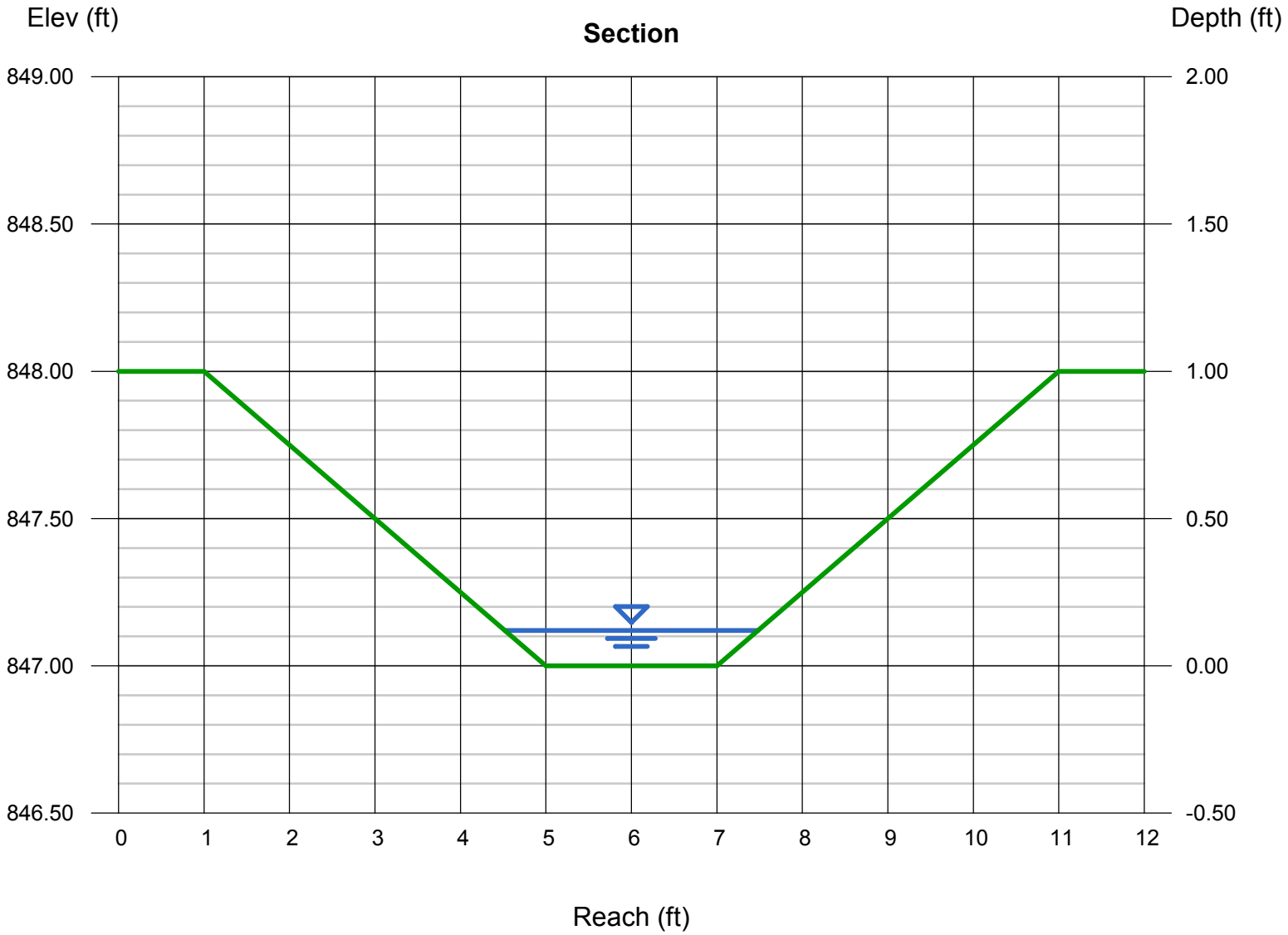
Bottom Width (ft)	= 2.00
Side Slopes (z:1)	= 4.00, 4.00
Total Depth (ft)	= 1.00
Invert Elev (ft)	= 847.00
Slope (%)	= 4.50
N-Value	= 0.030

Calculations

Compute by:	Known Q
Known Q (cfs)	= 0.66

Highlighted

Depth (ft)	= 0.12
Q (cfs)	= 0.660
Area (sqft)	= 0.30
Velocity (ft/s)	= 2.22
Wetted Perim (ft)	= 2.99
Crit Depth, Yc (ft)	= 0.14
Top Width (ft)	= 2.96
EGL (ft)	= 0.20



Deer Run Project - Dublin, OH

Functional Classification : Local Road

Subarea B LT DITCH #2

Stormwater Management Requirements

Location of Project: River Corridor
Quantity Requirements: Not applicable
Quality Requirements: 0.75 inch event

Type of Drainage System: Open Channel
Hydrologic Soil Group: D

Ditches shall be designed to carry the 10 year, 24 hr storm.
Open Channels shall be designed with one foot of freeboard above the design water surface elevation for the 10 year, 24-hour storm.
The 100 yr, 24 hour storm shall not encroach into proposed or existing residential dwellings or places of business.

Method of treating water quality for the project: *Bioretention Swale*

Pre Construction Imprevious Area	0	acres
Post Construction Impervious Area	0.098	acres
Total Area	0.39	acres
% of impervious area	25.13%	

Time of Concentration

tc = 0.33 hr

Water Quality Volume (WQv)

$$WQ_V = C * \left({}^{P}/_{12}\right) * A$$

$Where,$
$C = 0.858i^3 - 0.78i^2 + 0.774i + 0.04$
$i = fraction\ of\ post - const.\ impervious\ surface$
$\mathrm{P} = 0.75 \mathrm{Precipitation\ Depth}$
$\mathrm{A} = \mathrm{Area\ tributary\ to\ basin, acres}$

C =	0.1989	
I =	0.2513	
P =	0.75	inches
A =	0.3471	acre

WQ_V = 0.0043 ac-ft 187.91 CU FT

WQ_V Elevation = 0.10 ft water depth in swale

Available Depth in Ditch: 1.00 FT

Available Storage in Ditch: 5(1,680 CF

Channel Report

Hydraflow Express Extension for Autodesk® AutoCAD® Civil 3D® by Autodesk, Inc. Friday, Jul 8 2016

B-LT2

Trapezoidal

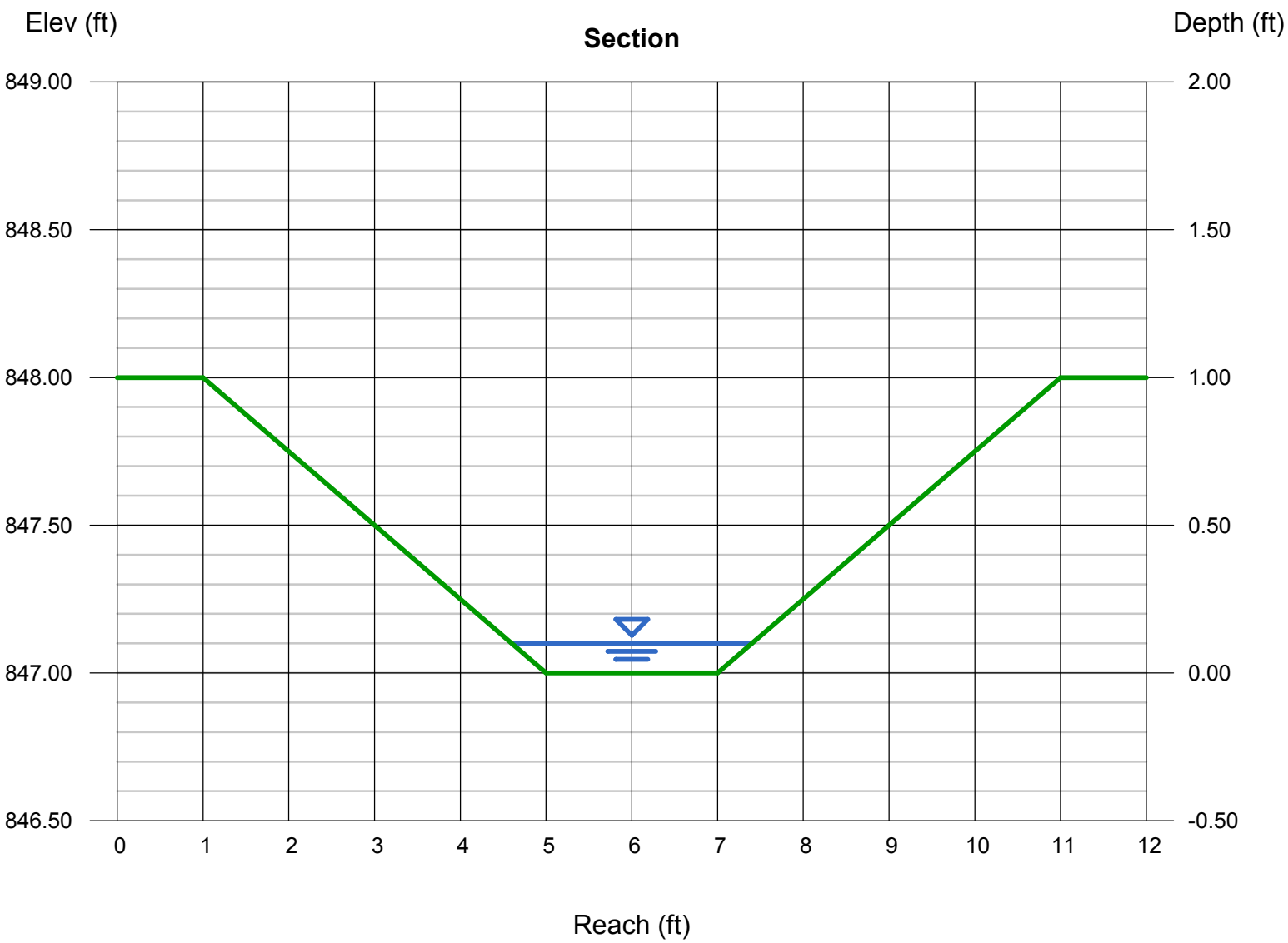
Bottom Width (ft)	= 2.00
Side Slopes (z:1)	= 4.00, 4.00
Total Depth (ft)	= 1.00
Invert Elev (ft)	= 847.00
Slope (%)	= 3.00
N-Value	= 0.030

Calculations

Compute by:	Known Q
Known Q (cfs)	= 0.40

Highlighted

Depth (ft)	= 0.10
Q (cfs)	= 0.395
Area (sqft)	= 0.24
Velocity (ft/s)	= 1.65
Wetted Perim (ft)	= 2.82
Crit Depth, Yc (ft)	= 0.10
Top Width (ft)	= 2.80
EGL (ft)	= 0.14



Deer Run Project - Dublin, OH

Functional Classification : Local Road

Subarea B LT DITCH #3

Stormwater Management Requirements

Location of Project: River Corridor
Quantity Requirements: Not applicable
Quality Requirements: 0.75 inch event

Type of Drainage System: Open Channel
Hydrologic Soil Group: D

Ditches shall be designed to carry the 10 year, 24 hr storm.
Open Channels shall be designed with one foot of freeboard above the design water surface elevation for the 10 year, 24-hour storm.
The 100 yr, 24 hour storm shall not encroach into proposed or existing residential dwellings or places of business.

Method of treating water quality for the project: *Bioretention Swale*

Pre Construction Imprevious Area	0	acres
Post Construction Impervious Area	0.15	acres
Total Area	0.71	acres
% of impervious area	21.13%	

Time of Concentration

tc = 0.33 hr

Water Quality Volume (WQv)

$$WQ_V = C * \left({}^{P}/_{12}\right) * A$$

$Where,$
$C = 0.858i^3 - 0.78i^2 + 0.774i + 0.04$
$i = fraction\ of\ post - const.\ impervious\ surface$
$\mathrm{P} = 0.75 \mathrm{Precipitation\ Depth}$
$\mathrm{A} = \mathrm{Area\ tributary\ to\ basin, acres}$

C =	0.1768	
I =	0.2113	
P =	0.75	inches
A =	0.3471	acre

WQ_V = 0.0038 ac-ft 167.07 CU FT

WQ_V Elevation = 0.13 ft water depth in swale

Available Depth in Ditch: 1.00 FT

Available Storage in Ditch: 5(1,655 CF

Channel Report

Hydraflow Express Extension for Autodesk® AutoCAD® Civil 3D® by Autodesk, Inc. Friday, Jul 8 2016

B-LT3

Trapezoidal

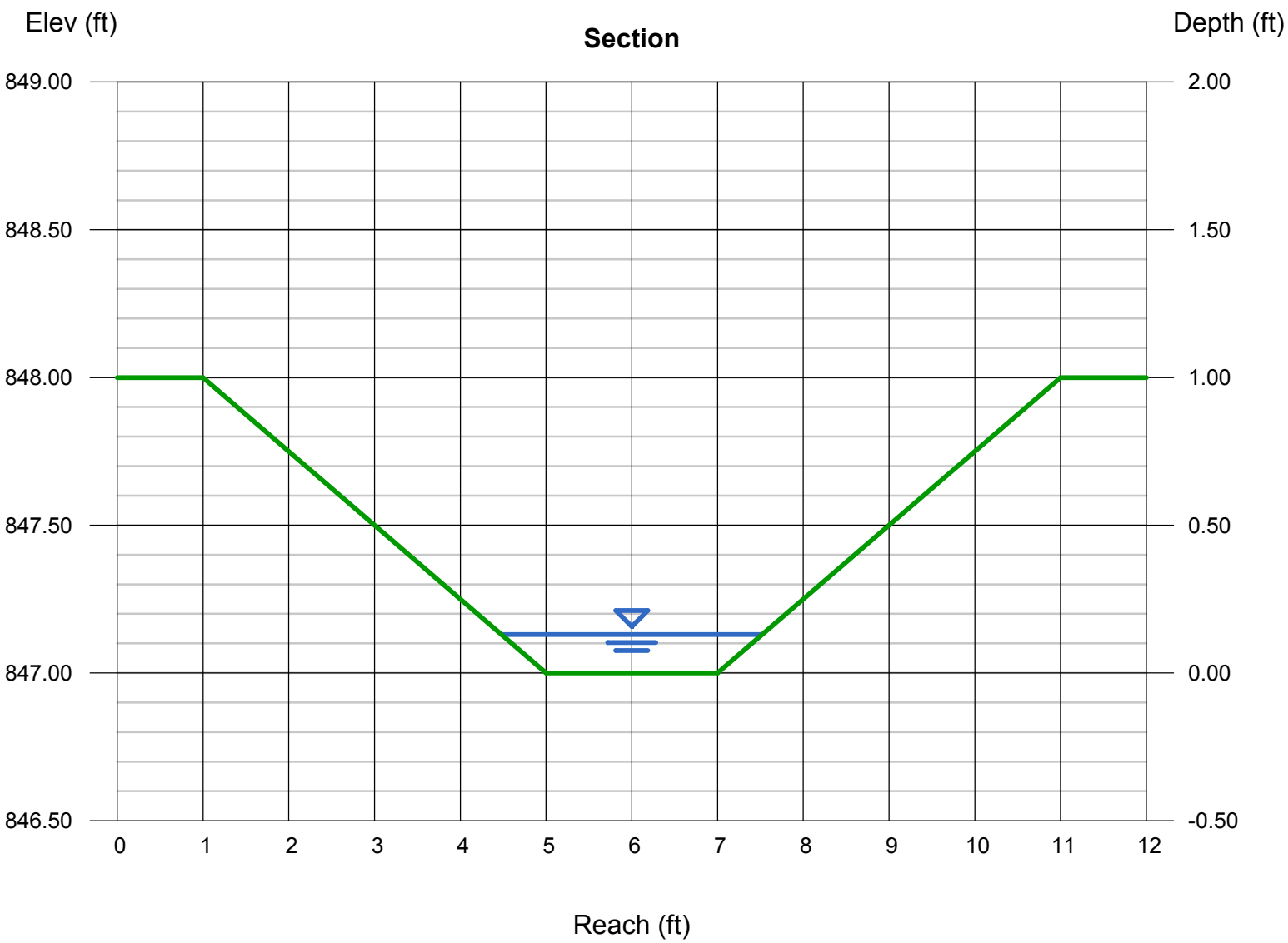
Bottom Width (ft)	= 2.00
Side Slopes (z:1)	= 4.00, 4.00
Total Depth (ft)	= 1.00
Invert Elev (ft)	= 847.00
Slope (%)	= 5.75
N-Value	= 0.030

Calculations

Compute by:	Known Q
Known Q (cfs)	= 0.81

Highlighted

Depth (ft)	= 0.13
Q (cfs)	= 0.809
Area (sqft)	= 0.33
Velocity (ft/s)	= 2.47
Wetted Perim (ft)	= 3.07
Crit Depth, Yc (ft)	= 0.16
Top Width (ft)	= 3.04
EGL (ft)	= 0.22



Appendix C

Hydraflow Reports

Hydrograph Summary Report

Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2015 by Autodesk, Inc. v10.4

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	0.664	1	718	1,371	------	------	------	B-LT1 - Pre
2	SCS Runoff	0.660	1	720	1,524	------	------	------	B-LT1 - Post
3	SCS Runoff	0.392	1	718	817	------	------	------	B-LT2 - Pre
4	SCS Runoff	0.395	1	722	1,024	------	------	------	B-LT2 - Post
5	SCS Runoff	0.713	1	718	1,487	------	------	------	B-LT3 - Pre
6	SCS Runoff	0.809	1	719	1,729	------	------	------	B-LT3 - Post
7	SCS Runoff	0.472	1	718	985	------	------	------	B-RT1 - Pre
8	SCS Runoff	0.535	1	719	1,145	------	------	------	B-RT1 - Post

Hydrograph Report

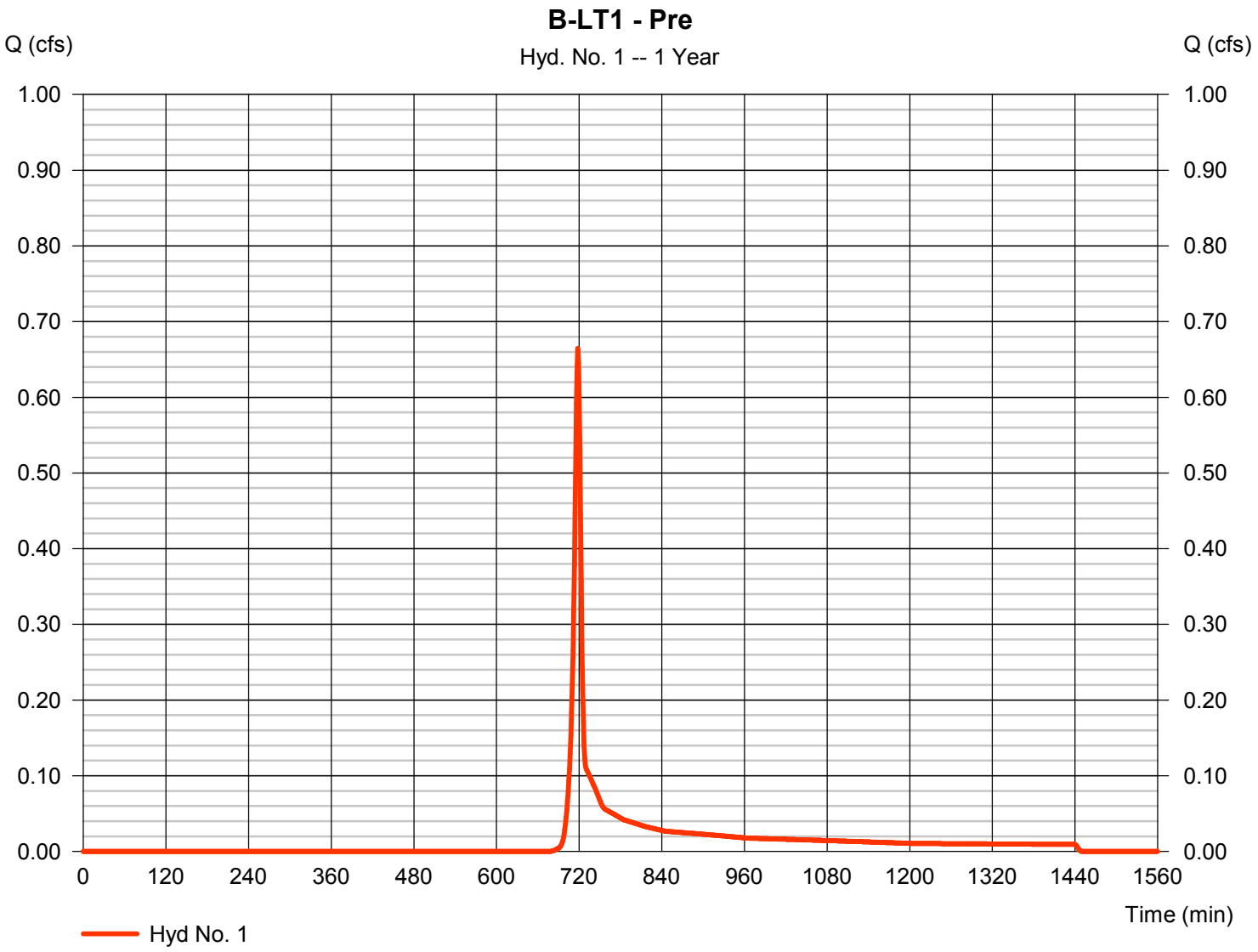
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2015 by Autodesk, Inc. v10.4 Friday, 07 / 8 / 2016

Hyd. No. 1

B-LT1 - Pre

Hydrograph type	= SCS Runoff	Peak discharge	= 0.664 cfs
Storm frequency	= 1 yrs	Time to peak	= 718 min
Time interval	= 1 min	Hyd. volume	= 1,371 cuft
Drainage area	= 0.610 ac	Curve number	= 78*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.32 min
Total precip.	= 2.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.028 x 91) + (0.582 x 77)] / 0.610



Hydrograph Report

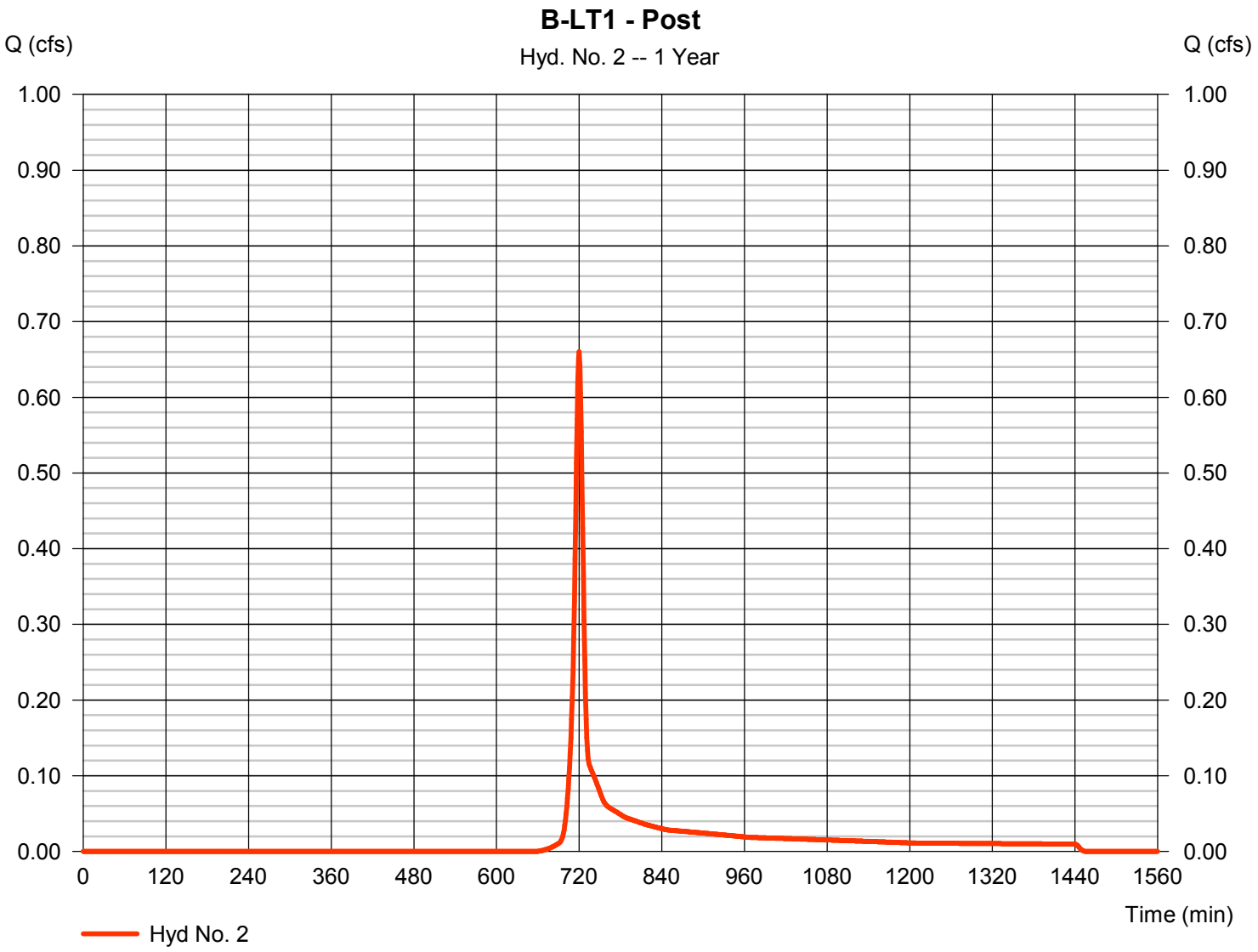
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2015 by Autodesk, Inc. v10.4 Friday, 07 / 8 / 2016

Hyd. No. 2

B-LT1 - Post

Hydrograph type	= SCS Runoff	Peak discharge	= 0.660 cfs
Storm frequency	= 1 yrs	Time to peak	= 720 min
Time interval	= 1 min	Hyd. volume	= 1,524 cuft
Drainage area	= 0.610 ac	Curve number	= 80*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 9.40 min
Total precip.	= 2.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.130 x 91) + (0.480 x 77)] / 0.610



Hydrograph Report

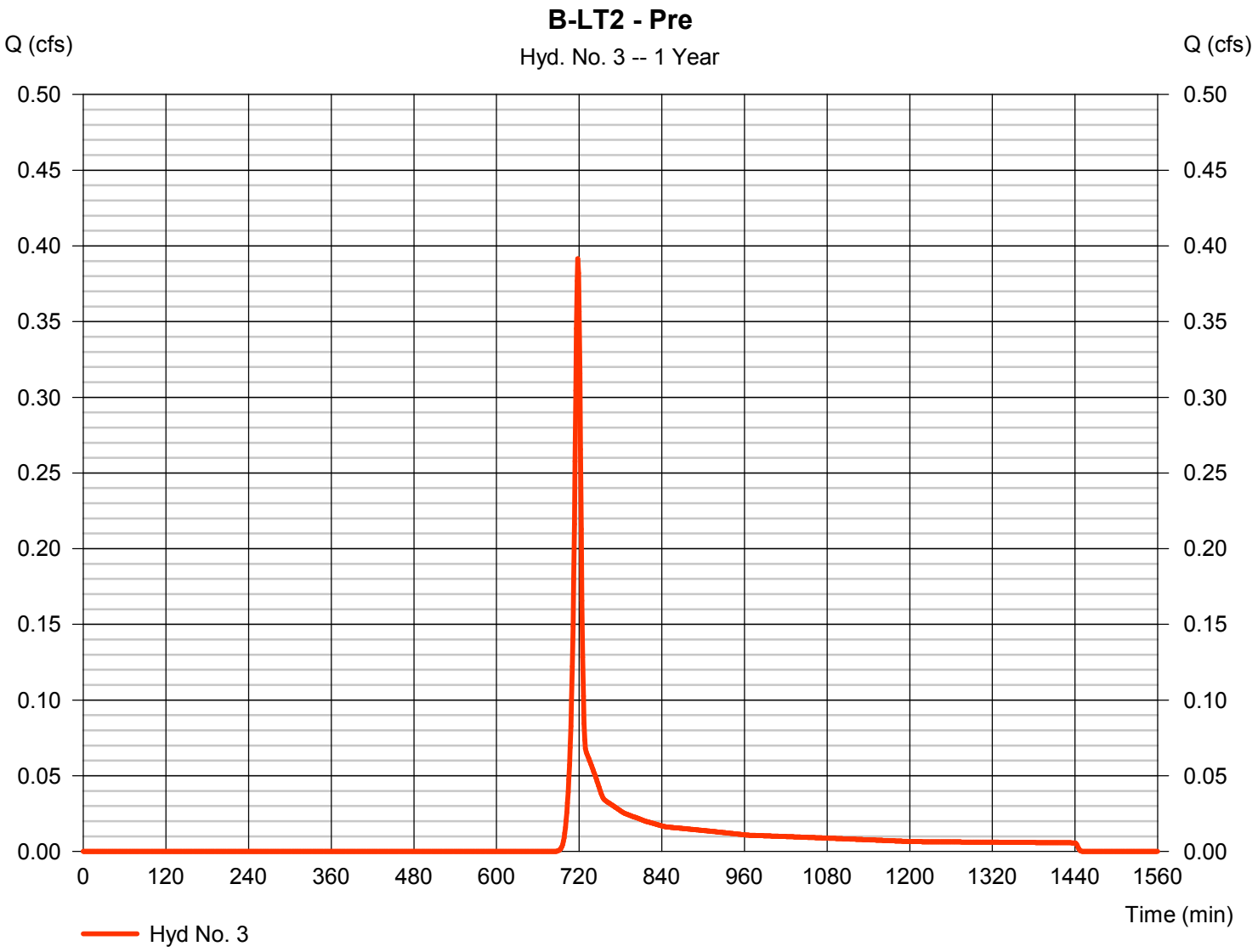
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2015 by Autodesk, Inc. v10.4 Friday, 07 / 8 / 2016

Hyd. No. 3

B-LT2 - Pre

Hydrograph type	= SCS Runoff	Peak discharge	= 0.392 cfs
Storm frequency	= 1 yrs	Time to peak	= 718 min
Time interval	= 1 min	Hyd. volume	= 817 cuft
Drainage area	= 0.390 ac	Curve number	= 77*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.10 min
Total precip.	= 2.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.390 x 77)] / 0.390



Hydrograph Report

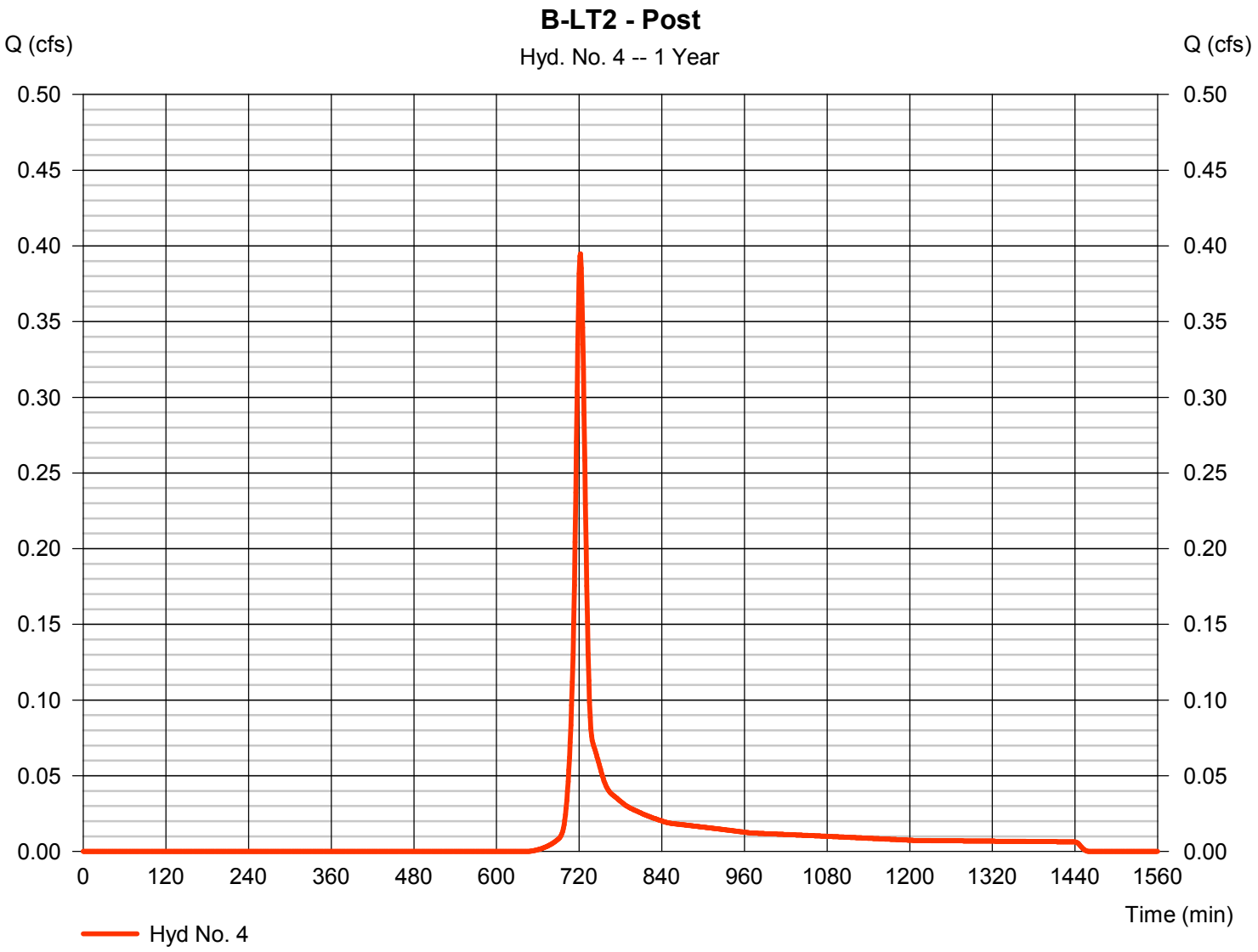
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2015 by Autodesk, Inc. v10.4 Friday, 07 / 8 / 2016

Hyd. No. 4

B-LT2 - Post

Hydrograph type	= SCS Runoff	Peak discharge	= 0.395 cfs
Storm frequency	= 1 yrs	Time to peak	= 722 min
Time interval	= 1 min	Hyd. volume	= 1,024 cuft
Drainage area	= 0.390 ac	Curve number	= 81*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 13.43 min
Total precip.	= 2.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.100 x 91) + (0.290 x 77)] / 0.390



Hydrograph Report

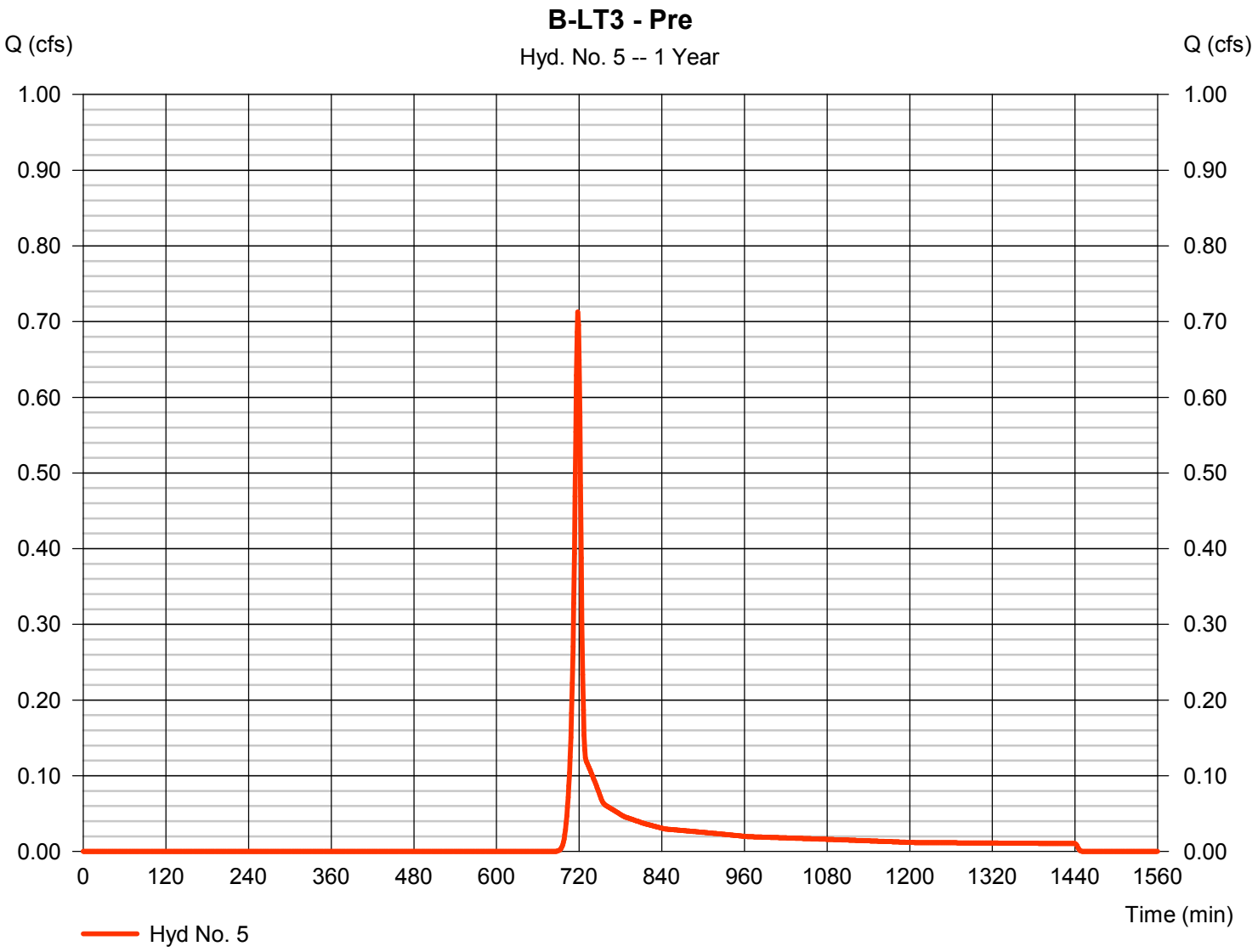
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2015 by Autodesk, Inc. v10.4 Friday, 07 / 8 / 2016

Hyd. No. 5

B-LT3 - Pre

Hydrograph type	= SCS Runoff	Peak discharge	= 0.713 cfs
Storm frequency	= 1 yrs	Time to peak	= 718 min
Time interval	= 1 min	Hyd. volume	= 1,487 cuft
Drainage area	= 0.710 ac	Curve number	= 77*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.08 min
Total precip.	= 2.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.710 x 77)] / 0.710



Hydrograph Report

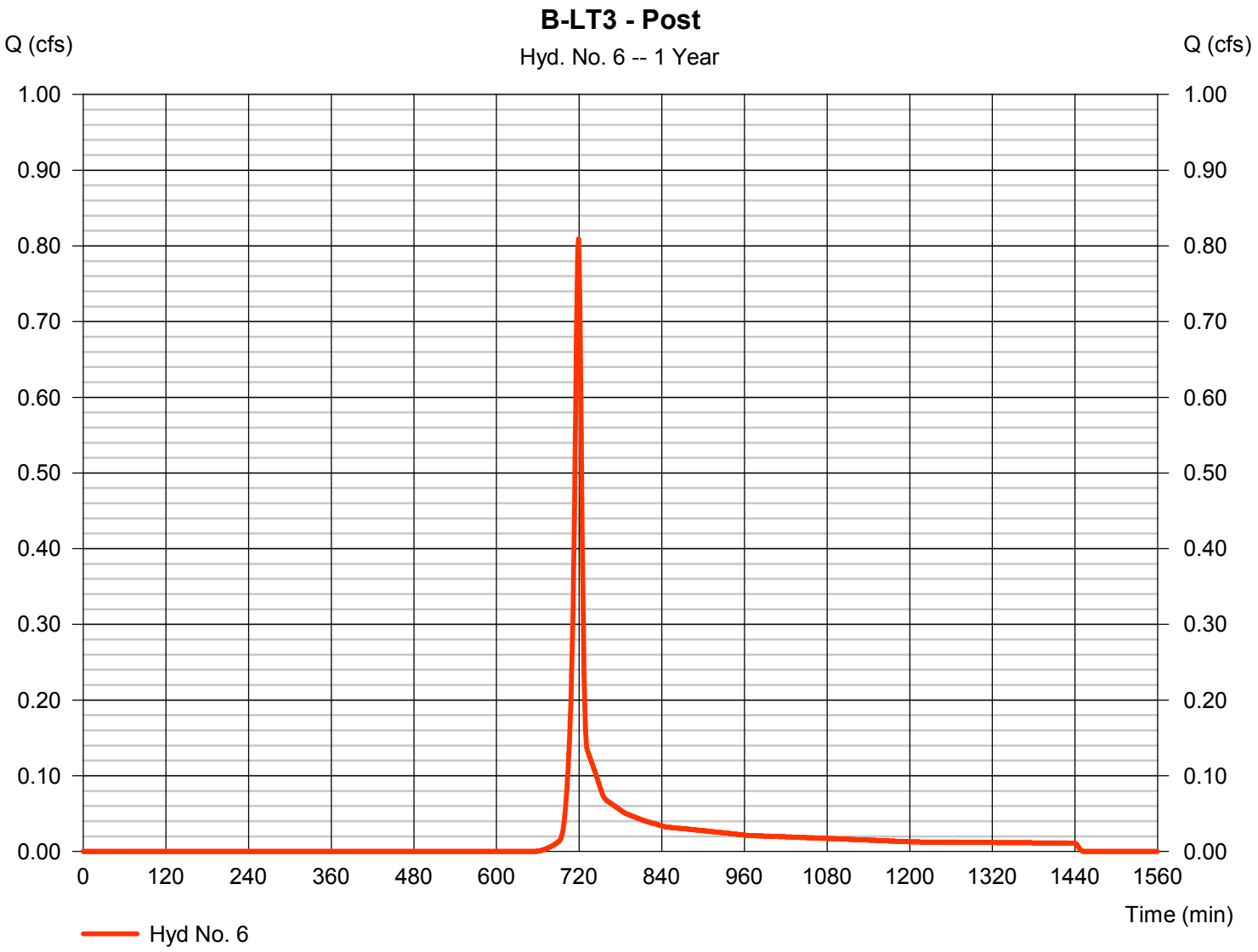
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2015 by Autodesk, Inc. v10.4 Friday, 07 / 8 / 2016

Hyd. No. 6

B-LT3 - Post

Hydrograph type	= SCS Runoff	Peak discharge	= 0.809 cfs
Storm frequency	= 1 yrs	Time to peak	= 719 min
Time interval	= 1 min	Hyd. volume	= 1,729 cuft
Drainage area	= 0.710 ac	Curve number	= 80*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 7.89 min
Total precip.	= 2.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.150 x 91) + (0.560 x 77)] / 0.710



Hydrograph Report

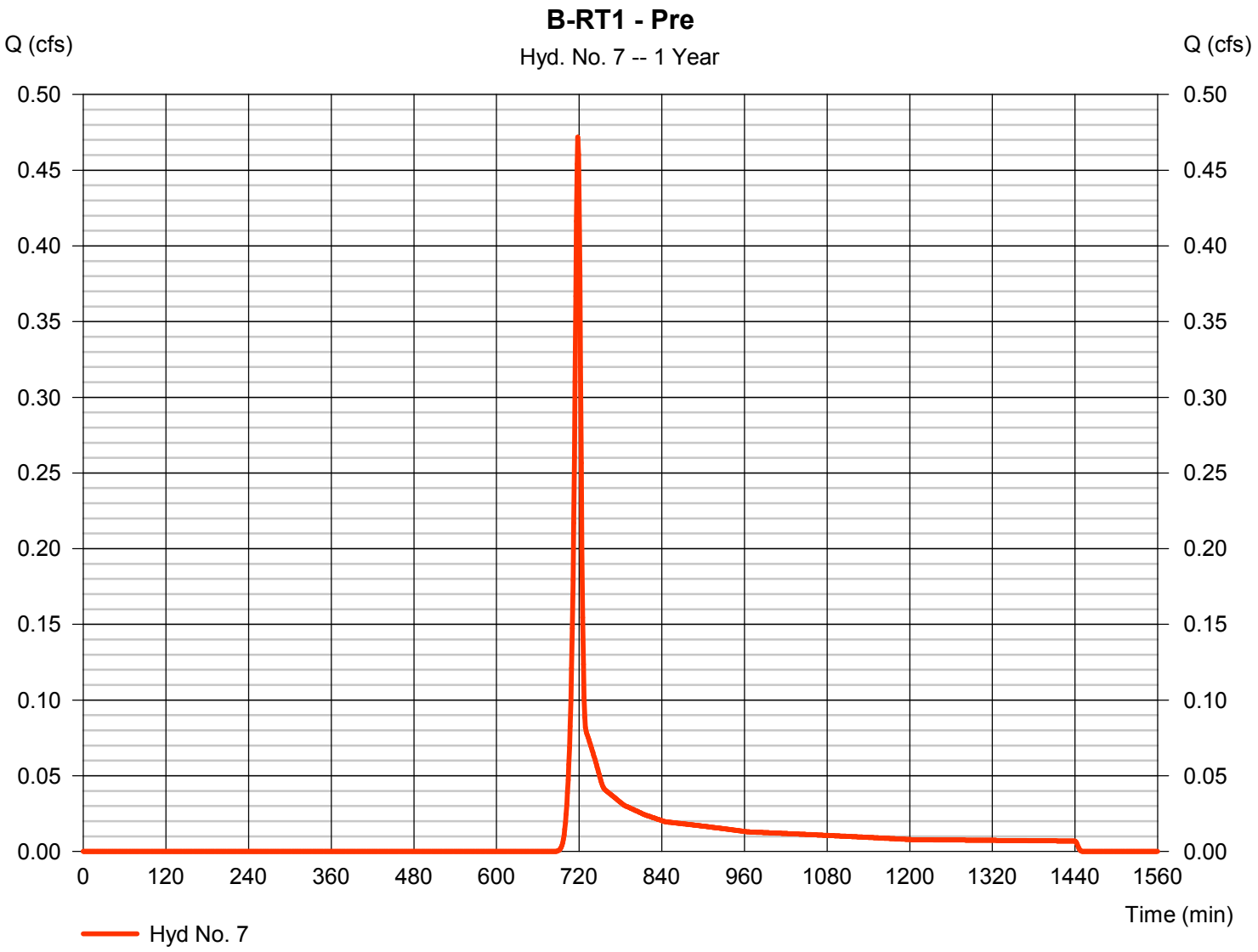
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2015 by Autodesk, Inc. v10.4 Friday, 07 / 8 / 2016

Hyd. No. 7

B-RT1 - Pre

Hydrograph type	= SCS Runoff	Peak discharge	= 0.472 cfs
Storm frequency	= 1 yrs	Time to peak	= 718 min
Time interval	= 1 min	Hyd. volume	= 985 cuft
Drainage area	= 0.470 ac	Curve number	= 77*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 5.08 min
Total precip.	= 2.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.470 x 77)] / 0.470



Hydrograph Report

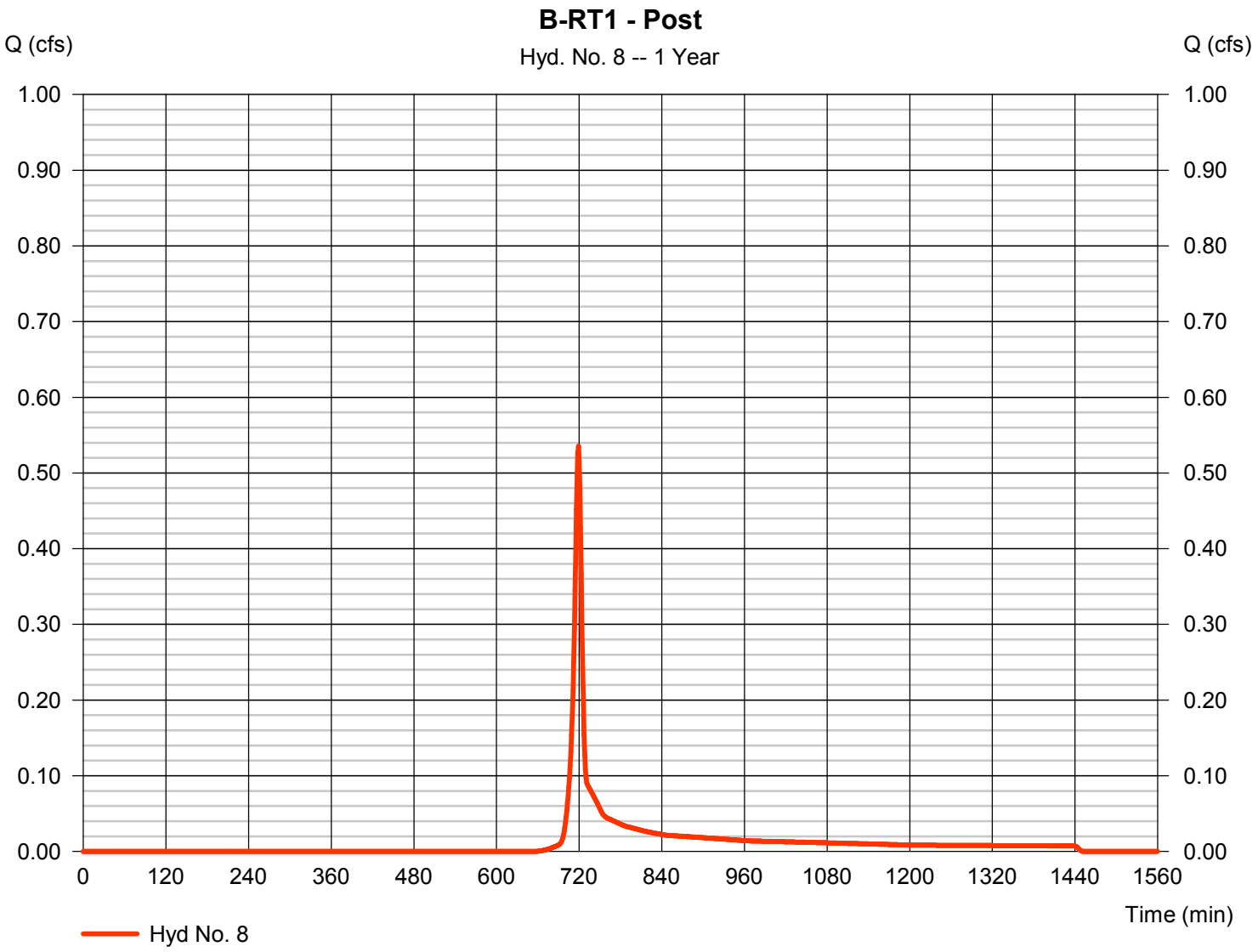
Hydraflow Hydrographs Extension for AutoCAD® Civil 3D® 2015 by Autodesk, Inc. v10.4 Friday, 07 / 8 / 2016

Hyd. No. 8

B-RT1 - Post

Hydrograph type	= SCS Runoff	Peak discharge	= 0.535 cfs
Storm frequency	= 1 yrs	Time to peak	= 719 min
Time interval	= 1 min	Hyd. volume	= 1,145 cuft
Drainage area	= 0.470 ac	Curve number	= 80*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 7.20 min
Total precip.	= 2.20 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(0.110 x 91) + (0.360 x 77)] / 0.470



Appendix D

Time of Concentration Calculations

Time of Concentration - Pre Conditions Subarea B Right Ditch #1

Overland (Sheet Flow) Time of Concentration

			OR
to =	**0.03**	**hr**	1.51 minutes

$$t_o = \frac{0.007(nL)^{0.8}}{P_2^{0.5} s^{0.4}}$$

Where,

n (Manning's roughness coefficient)	0.4
L (Sheet flow Length)	125
P_2 (2yr, 24hr rainfall, inches)	2.63
S (slope of land surface, ft/ft)	0.096

Shallow Time of Concentration

			Depth	Manning's n	Velocity
Flow Type	Minimum tillage cultivation, contour or strip-cropped, and woodlands		0.2	0.101	Use Figure 15-4 to determine Velocity
Slope	0.0267	ft/ft			
Velocity from Chart	0.7	ft/s			
Length	150	ft			
t =	**0.06**	**hr**		3.57 minutes	

t_{open} =	**0.00**	**hr**

TOTAL TIME OF CONCENTRATION =	**0.08**	**hr**
	OR	
	5.08	**minutes**

Time of Concentration - Post Conditions Subarea B Right Ditch #1

Overland (Sheet Flow) Time of Concentration

to =	**0.02**	**hr**	OR 1.36 minutes

$$t_o = \frac{0.007(nL)^{0.8}}{P_2^{0.5} s^{0.4}}$$

Where,

n (Manning's roughness coefficient)	0.4
L (Sheet flow Length)	50
P_2 (2yr, 24hr rainfall, inches)	2.63
S (slope of land surface, ft/ft)	0.02

Open Channel Flow

			Calc Check
Area =	0.02	ft^2	*0.02*
Radius =	0.01	ft	*0.01*
Slope(ft/ft) =	0.0925		
n =	0.03		
V (velocity)	0.57	ft/sec	
Drainage Area (acres) =	0.47	acres	
C (Coefficient of Runoff) =	0.3		
I =	0.11		
Q = CiA	0.016	cfs	
Ditch Width =	2	ft	
Foreslope/Backslope =	4		

Depth of water in Ditch = **in inches*	0.09
Length of Ditch = (in feet)	215

t_{open} =	**0.10**	**hr**

TOTAL TIME OF CONCENTRATION =	**0.13**	**hr**
	OR	
	7.62	**minutes**

Time of Concentration - Pre Conditions Subarea B Left Ditch #1

Overland (Sheet Flow) Time of Concentration

			OR
to =	**0.03**	**hr**	1.75 minutes

$$t_o = \frac{0.007(nL)^{0.8}}{P_2^{0.5} s^{0.4}}$$

Where,

n (Manning's roughness coefficient)	0.4
L (Sheet flow Length)	150
P_2 (2yr, 24hr rainfall, inches)	2.63
S (slope of land surface, ft/ft)	0.096

Shallow Time of Concentration

			Depth	Manning's n	Velocity
Flow Type	Minimum tillage cultivation, contour or strip-cropped, and woodlands		0.2	0.101	Use Figure 15-4 to determine Velocity
Slope	0.0267	ft/ft			
Velocity from Chart	0.7	ft/s			
Length	150	ft			
t =	**0.06**	**hr**		3.57 minutes	

t_{open} =	**0.00**	**hr**
TOTAL TIME OF CONCENTRATION =	**0.09**	**hr**
	OR	
	5.32	**minutes**

Time of Concentration - Post Conditions Subarea B Left Ditch #1

Overland (Sheet Flow) Time of Concentration

to =	**0.00**	**hr**	OR 0.08 minutes

$$t_o = \frac{0.007(nL)^{0.8}}{P_2^{0.5} s^{0.4}}$$

Where,

n (Manning's roughness coefficient)	0.03
L (Sheet flow Length)	16
P_2 (2yr, 24hr rainfall, inches)	2.63
S (slope of land surface, ft/ft)	0.0156

Open Channel Flow

			Calc Check
Area =	0.02	ft^2	*0.02*
Radius =	0.01	ft	*0.01*
Slope(ft/ft) =	0.045		
n =	0.03		
V (velocity)	0.48	ft/sec	
Drainage Area (acres) =	0.61	acres	
C (Coefficient of Runoff) =	0.3		
I =	0.11		
Q = CiA	0.020	cfs	
Ditch Width =	2	ft	
Foreslope/Backslope =	4		

Depth of water in Ditch = 0.12
**in inches*

Length of Ditch = 255

t_{open} = 0.15 hr

TOTAL TIME OF CONCENTRATION = 0.15 hr OR 8.89 minutes

Time of Concentration - Pre Conditions Subarea B Left Ditch #2

Overland (Sheet Flow) Time of Concentration

			OR
to =	**0.03**	**hr**	1.51 minutes

$$t_o = \frac{0.007(nL)^{0.8}}{P_2^{0.5} s^{0.4}}$$

Where,

n (Manning's roughness coefficient)	0.4
L (Sheet flow Length)	125
P_2 (2yr, 24hr rainfall, inches)	2.63
S (slope of land surface, ft/ft)	0.096

Shallow Time of Concentration

			Depth	Manning's n	Velocity
Flow Type	Minimum tillage cultivation, contour or strip-cropped, and woodlands		0.2	0.101	Use Figure 15-4 to determine Velocity
Slope	0.0267	ft/ft			
Velocity from Chart	0.7	ft/s			
Length	150	ft			
t =	**0.06**	**hr**		3.57 minutes	

t_{open} =	**0.00**	**hr**

TOTAL TIME OF CONCENTRATION =	**0.08**	**hr**
	OR	
	5.08	**minutes**

Time of Concentration - Post Conditions Subarea B Left Ditch #2

Overland (Sheet Flow) Time of Concentration

			OR
to =	**0.00**	**hr**	0.08 minutes

$$t_o = \frac{0.007(nL)^{0.8}}{P_2^{0.5} s^{0.4}}$$

Where,

n (Manning's roughness coefficient)	0.03
L (Sheet flow Length)	16
P_2 (2yr, 24hr rainfall, inches)	2.63
S (slope of land surface, ft/ft)	0.0156

Open Channel Flow

			Calc Check
Area =	0.02	ft^2	*0.02*
Radius =	0.01	ft	*0.01*
Slope(ft/ft) =	0.03		
n =	0.03		
V (velocity)	0.35	ft/sec	
Drainage Area (acres) =	0.39	acres	
C (Coefficient of Runoff) =	0.3		
I =	0.11		
Q = CiA	0.013	cfs	
Ditch Width =	2	ft	
Foreslope/Backslope =	4		

Depth of water in Ditch =	0.10
**in inches*	
Length of Ditch =	280

t_{open} =	**0.22**	**hr**

TOTAL TIME OF CONCENTRATION =	**0.22**	**hr**
	OR	
	13.43	**minutes**

Time of Concentration - Pre Conditions Subarea B Left Ditch #3

Overland (Sheet Flow) Time of Concentration

			OR
to =	**0.03**	**hr**	1.51 minutes

$$t_o = \frac{0.007(nL)^{0.8}}{P_2^{0.5} s^{0.4}}$$

Where,

n (Manning's roughness coefficient)	0.4
L (Sheet flow Length)	125
P_2 (2yr, 24hr rainfall, inches)	2.63
S (slope of land surface, ft/ft)	0.096

Shallow Time of Concentration

			Depth	Manning's n	Velocity
Flow Type	Minimum tillage cultivation, contour or strip-cropped, and woodlands		0.2	0.101	Use Figure 15-4 to determine Velocity
Slope	0.0267	ft/ft			
Velocity from Chart	0.7	ft/s			
Length	150	ft			
t =	**0.06**	**hr**		3.57 minutes	

t_{open} =	**0.00**	**hr**

TOTAL TIME OF CONCENTRATION =	**0.08**	**hr**
	OR	
	5.08	**minutes**

Time of Concentration - Post Conditions Subarea B Left Ditch #3

Overland (Sheet Flow) Time of Concentration

			OR
to =	**0.00**	**hr**	0.08 minutes

$$t_o = \frac{0.007(nL)^{0.8}}{P_2^{0.5} s^{0.4}}$$

Where,

n (Manning's roughness coefficient)	0.03
L (Sheet flow Length)	16
P_2 (2yr, 24hr rainfall, inches)	2.63
S (slope of land surface, ft/ft)	0.0156

Open Channel Flow

			Calc Check
Area =	0.02	ft^2	*0.02*
Radius =	0.01	ft	*0.01*
Slope(ft/ft) =	0.06		
n =	0.03		
V (velocity)	0.59	ft/sec	
Drainage Area (acres) =	0.71	acres	
C (Coefficient of Runoff) =	0.3		
I =	0.11		
Q = CiA	0.023	cfs	
Ditch Width =	2	ft	
Foreslope/Backslope =	4		

Depth of water in Ditch =	0.13
**in inches*	
Length of Ditch =	275

t_{open} =	**0.13**	**hr**

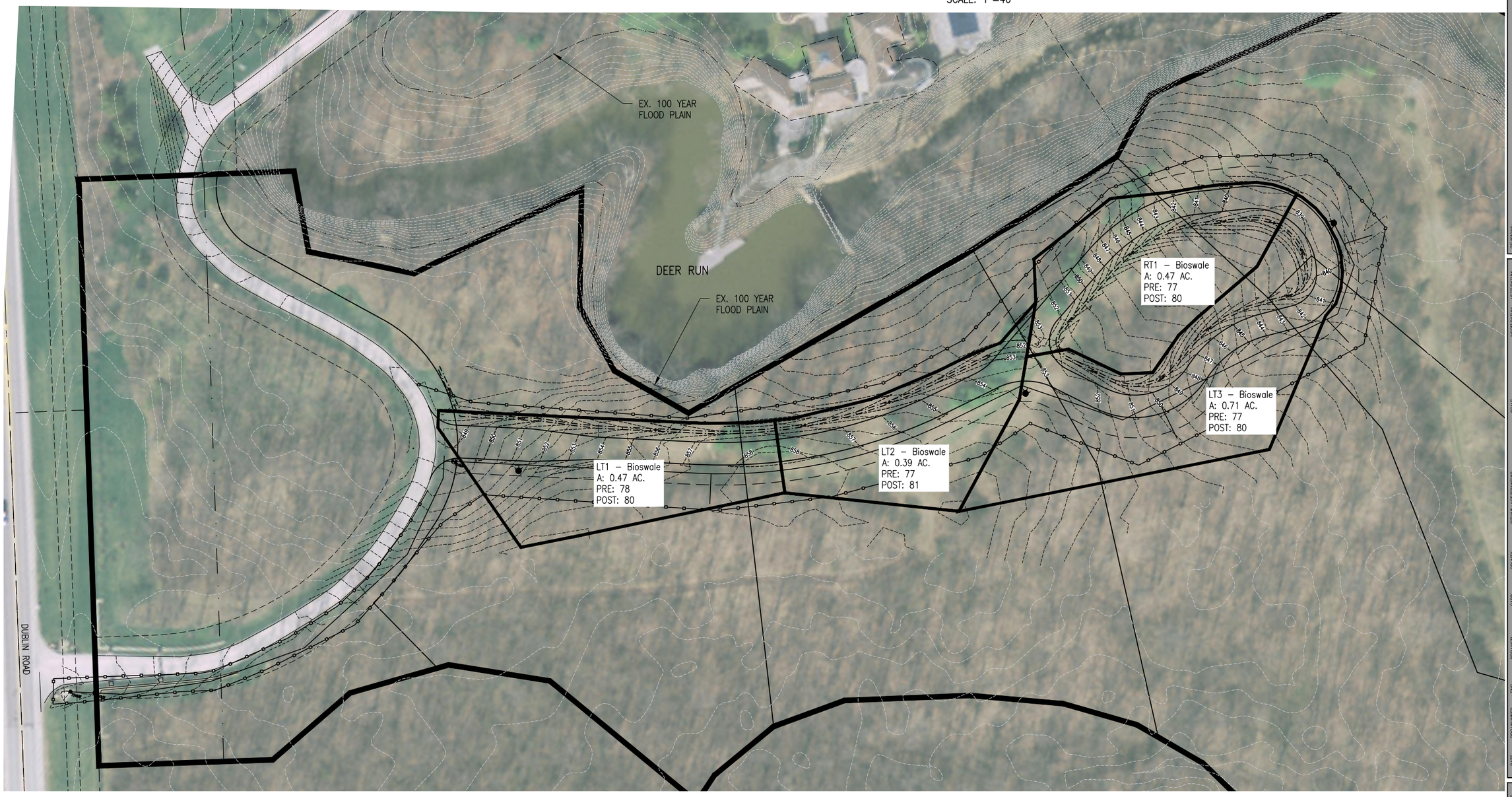
TOTAL TIME OF CONCENTRATION =	**0.13**	**hr**
	OR	
	7.89	**minutes**

Appendix E

Exhibits

SUBAREA B

SCALE: 1"=40'



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REVISIONS:
01/04/2016 - REVISIONS PER CITY OF DUBLIN COMMENTS

DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	HORIZ DATUM	VERT DATUM	SCALE
	648115001	SEH	DSM	SEH	DELAWARE	DUBLIN			H: V:

DEER RUN LAND, LLC
DEER RUN - SUBAREA B FINAL DEVELOPMENT PLAN

EXHIBIT 2 - DRAINAGE MAP

SHEET 1 OF 1

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DRAWING PATH: C:\Users\stickley\Desktop\Deer Run\648115GRD_B - Drainage Map.dwg Jul 08, 2016 - 11:19am