RADNOR TOWNSHIP

ENGINEERING DEPARTMENT



Memorandum

To: Community Development Committee of the Radnor Township Board of

Commissioners

cc: Robert A. Zienkowski, Township Manager

William M. White, Assistant Township Manager/Finance Director

From: Stephen F. Norcini, PE, Township Engineer

Date: June 16, 2018

Proposed WAWA at the Corner of Lancaster and Aberdeen Avenues, 302-306 East Lancaster Avenue, Traffic Impact Scoping Application

For the Committee's and our residents' use, please find attached the following:

- 1. Traffic Impact Study Scoping Application, prepared by Traffic Planning and Design, Incorporated for the proposed project
- 2. A review letter prepared by Gilmore & Associates, with staff input, regarding the Scoping Application
- A Zoning Opinion from the Township's Zoning Officer, Kevin Kochanski, to Nicholas Caniglia
- 4. Concept Plan for the WAWA

Please note that to date, the Township has not received a Land Development application for the proposed project.



WWW.TRAFFICPD.COM

June 13, 2018

Mr. Francis J. Hanney Traffic Services Manager PennDOT District 6-0 7000 Geerdes Boulevard King of Prussia, PA 19406

RE: TRANSPORTATION IMPACT STUDY (TIS) SCOPING APPLICATION

WAWA - Lancaster Avenue (S.R. 0030) & Aberdeen Avenue

Radnor Township, Delaware County

TPD No. KARA.00010

Dear Mr. Hanney:

On behalf of Wayne Property Acquisition, Inc., Traffic Planning and Design, Inc. (TPD) has prepared the following TIA Scoping Meeting Application for the above referenced project. This scoping application has been prepared in accordance with the application procedures outlined in PennDOT's Publication 282, Appendix A, dated July, 2017.

Scoping Meeting Date: TBD

Applicant: Wayne Property Acquisition, Inc.

Applicant's Consultant: Traffic Planning and Design, Inc. (TPD) - Matthew Hammond

Applicant's Primary Contact: Peter Karakelian

1. LOCATION OF PROPOSED DEVELOPMENT:

PennDOT Engineering Dist: 6-0 County: Delaware

Municipality: Radnor Township

State Route(s) (SR): Lancaster Avenue (S.R. 0030)

Segment(s): <u>0040</u> Offset(s): <u>0000 to 0300</u>

Are 102" wide combinations (w/trailer lengths greater than 28') allowed access to SR in accordance with 75 PA. C.S. (4908): Yes

Please refer to the attached **Figure 1** which shows the project location. The proposed site plan is **attached**.

DESCRIPTION OF PROPOSED DEVELOPMENT:

- Existing Land Use: The existing site contains the following:
 - o Sunoco Convenience Store, Ten (10) Fueling Positions, Four (4) Service Bays
 - BP Convenience Store, Eight (8) Fueling Positions, One (1) Carwash Tunnel.

- Existing Site Access: The existing site is served by four (4) driveway locations to Lancaster Avenue (S.R. 0030) and two (2) driveway locations to Aberdeen Avenue
- Proposed Land Use: A 4.736 ksf WAWA Convenience Market with twelve (12) fueling positions
- Proposed Site Access: The site will be served by two (2) driveway locations to Lancaster Avenue (S.R. 0030) and one (1) driveway location to Aberdeen Avenue
- Community Linkages (access to neighboring properties, cross easements, pedestrian and transit accommodations): N/A

3. DEVELOPMENT SCHEDULE AND STAGING:

- Anticipated Opening Date: 2020
- Design Year: 2025
- Describe Proposed Development/Staging: N/A

4. TRIP GENERATION:

Trip generation for the proposed development will be based on:

ITE Trip Generation Manual (10th Edition).

• Super Convenience Market/Gas Station (ITE #960)

Other independent surveys.

TABLE 1
TRIP GENERATION DATA – PROPOSED SITE

Land Use (ITE #)	Time Period	Size (X)	Rate	Enter %	Pass-By %
	Average Weekday	4.736 ksf	T = 837.58*(X)	50%	N/A
			T = 83.14*(X)	F00/	760/
	Weekday AM Peak Hour		T = 137.38*(X) - 264.53	50%	76%
Super Convenience	Weekday PM Peak Hour		T = 69.28*(X)	50%	76%
Market/ Gas Station (#960)	Saturday Midday Peak Hour		T = 63.80*(X)	50%	66%¹
			T = 104.71*(X) - 204.23	50%	
	Average Weekday		T = 230.52*(X)	50%	N/A
	Weekday AM Peak Hour	12 fp	T = 28.08*(X)	50%	76%
	Weekday PM Peak Hour	12 fp	T = 22.96*(X)	50%	76%
	Saturday Midday Peak Hour		T = 23.26*(X)	50%	66%¹

T = Total Trips; X = Independent Variable, ksf = 1000 sf, fp = fueling position 1 No data available, used 10% less than P.M. peak hour. Bold/Italics = Higher Generation Utilized

The results of the trip generation calculations are summarized in **Table 2**.

TABLE 2
TRIP GENERATION – PROPOSED DEVELOPMENT

Dook House	Land use Code	Size	Total	Pass-By Trips		New Trips			
Peak Hour				Total	Enter	Exit	Total	Enter	Exit
Average Weekday	#960	4.736 ksf	3968	N/A	N/A	N/A	3968	1984	1984
Weekday A.M.			394	300	150	150	94	47	47
Weekday P.M.			328	250	125	125	78	39	39
SAT Midday			302	200	100	100	102	51	51

As noted above, the Proposed WAWA will replace two (2) existing convenience market/gas station uses. Therefore, a large portion of the trip generation shown above already exists in the Study Area. Counts will be performed at the existing driveways to quantify the increase in traffic due to the Proposed Site. Also, the trip generation shown above represents a conservative estimate.

5.	 ESTIMATED DAILY TRIP GENERATION/DRIVEWAY CLASSIFICATION: a. Estimated Daily Trip Generation of Proposed Development: 3968 trips/day or 1984 vehicles/day (not including a credit for the existing uses) b. Driveway Classification Based on Trip Generation: Three (3) Low Volume Driveways = 25-750 vehicles/day
6.	TRANSPORTATION IMPACT STUDY REQUIRED? □ No □ Yes, based on: □ 3,000 or more vehicle trips/day generated (before accounting for existing site uses □ During any one-hour time period, 100 or more new (added) vehicle trips generated entering or 100 or more new (added) vehicle trips generated exiting development. □ Other considerations as described below:
<i>7</i> .	TRAFFIC IMPACT ASSESSMENT REQUIRED? No Yes
8.	 Roadway and Study Intersections Lancaster Avenue (S.R. 0030) & Aberdeen Avenue (Signalized) Lancaster Avenue (S.R. 0030) & Existing Driveways (4) Aberdeen Avenue & Existing Driveways (2) Land use context (Refer to Smart Transportation Handbook) Suburban center Known Congestion Areas TBD Known Safety Concerns TBD Known Environmental Constraints TBD Pedestrian/Bike Review (Community Centers, Parks, Schools, etc.) Will be addressed in the TIA Transit Review (Current routes/stops) Will be addressed in the TIA
9.	STUDY AREA TYPE: Urban
	PennDOT's Functional Classification Map, Lancaster Avenue (S.R. 0030) is defined as an Urbarncipal Arterial.
10.	 TIS ANALYSIS PERIOD AND TIMES: Weekday A.M. peak hour (peak hour within the 7:00-9:00 A.M. peak period); Weekday P.M. peak hour (peak hour within the 4:00-6:00 P.M. peak period); SAT Midday peak hour (peak hour within the 11:00 A.M1:00 P.M. peak period).
	Study Voars to be evaluated:

2018 Existing Conditions

- 2020 Opening/Buildout Year
- 2025 Design Year

11. TRAFFIC ADJUSTMENT FACTORS:

- a. Seasonal Adjustment: (Identify counts requiring adjustment and methodology): None
- b. Annual Base Traffic Growth: <u>0.00%/year based on PennDOT Bureau of Planning and Research</u> (BPR) data pertaining to urban non-interstate roadways in Delaware County. Will assume <u>0.38%/year growth to be consistent with previous version of PennDOT BPR Data</u>.
- c. Pass-By Trips: See Tables 1-2 Above
- d. Captured Trips for Multi-Use Sites: None
- e. Modal Split Reductions: None
- f. Other Reduction: <u>Trip Generation Credit for Existing Site(s)</u> based on driveway counts

12. OTHER PROJECTS WITHIN STUDY AREA TO BE ADDED TO BASE TRAFFIC:

To be determined through the scoping process.

13. TRIP DISTRIBUTION AND ASSIGNMENT:

TPD recommends distributing and assigning trips to the surrounding roadways based upon an evaluation of the following: (1) existing traffic patterns, (2) roadways surrounding the site, and (3) the proposed site driveway location and configuration.

14. APPROVAL OF DATA COLLECTION ELEMENTS AND METHODOLOGIES:

Location	Time Period	Count Type
All Evisting "Deadway and Study	Weekday A.M. Peak Hour	
All Existing "Roadway and Study Intersections" noted in #8 above	Weekday P.M. Peak Hour	Manual Turning Movement Count
intersections noted in #6 above	SAT Midday Peak Hour	
	Weekday A.M. Peak Hour	
Proposed Driveways	Weekday P.M. Peak Hour	Gap Study
	SAT Midday Peak Hour	

15. CAPACITY/LOS ANALYSIS:

Capacity analyses to be conducted at the study area intersections for the peak hours and study years to be evaluated according to the methodologies contained in the 2010 <u>HCM</u> (where applicable), utilizing SYNCHRO 10 software. In addition, capacity analyses will be conducted at the proposed site driveway intersection under opening year conditions.

16. ROADWAY IMPROVEMENTS/MODIFICATIONS BY OTHERS TO BE INCLUDED: None Found

17. OTHER NEEDED ANALYSES:

- a. Sight Distance Analysis: Yes
- b. Signal Warrant Analysis: No
- c. Required Signal Phasing/Timing Modifications: As Needed
- d. Traffic Signal Corridor/Network Analysis: N/A
- e. Analysis of the Need for Turning Lanes: Yes
- f. Turning Lane Lengths: <u>Utilizing Pub. 46, Chapter 11</u>
- g. Left Turn Signal Phasing Analysis: As Needed

h. Queuing Analysis: <u>Utilizing SYNCHRO 95th percentile queues</u>

i. Gap Studies: <u>Yes</u>j. Crash Analysis: <u>Yes</u>k. Weaving Analysis: <u>N/A</u>

I. Other Required Studies: As Needed

18. ADDITIONAL COMMENTS OR RECOMMENDATIONS RELATIVE TO THE SCOPE OF THE TIS: TBD

TRAFFIC PLANNING AND DESIGN, INC.

Mitthe &

Matthew I. Hammond, P.E.

Executive Vice President

mhammond@TrafficPD.com

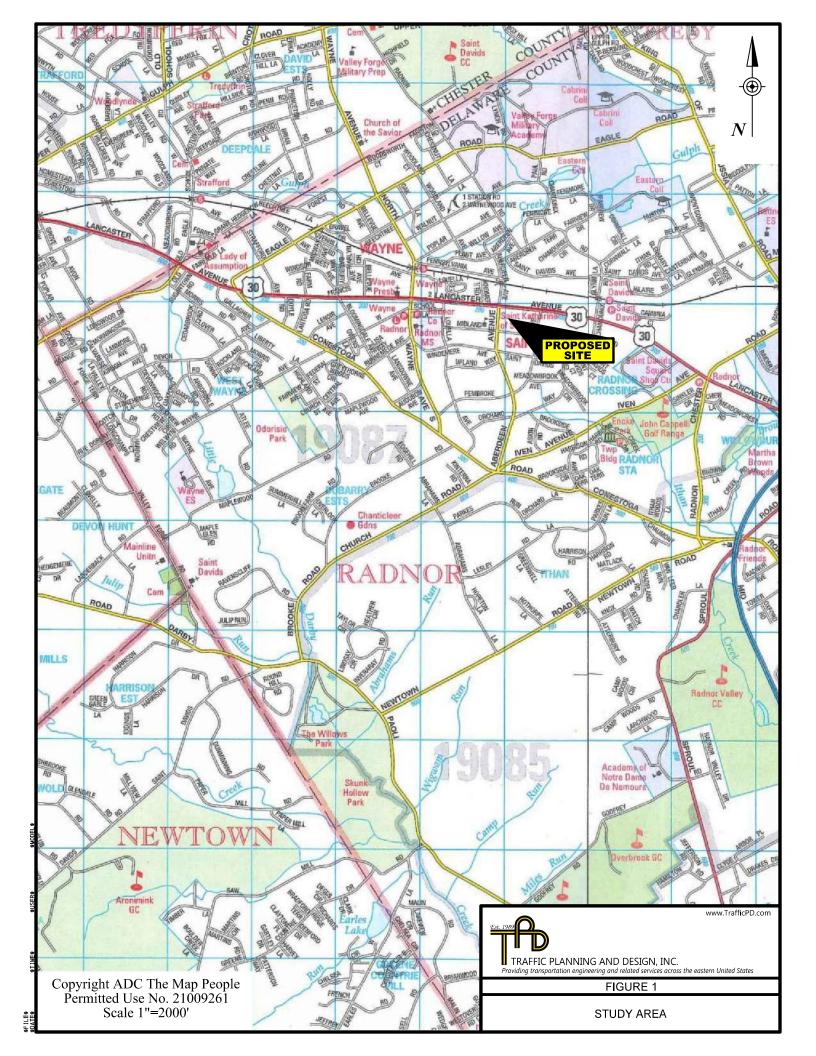
Attachments: Figure 1 – Study Area

Proposed Site Plan PennDOT iTMS Data

cc: Radnor Township

Peter Karakelian, Wayne Property Acquisition, Inc.

Project Team TPD File





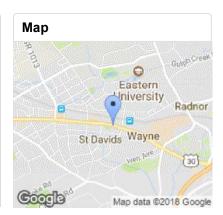
TMS Site 24557: Traffic Monitoring Report

Traffic Report Summary

Location Description: Btwn Pembroke Ave & Saint Davids Rd.

Details			
Type of Count	MACHINE CLASS		
Type of Site	Portable		
Schedule	1 TIME/YR		
Duration	24 HRS		
Frequency Cycle	03		
Cycle Year	01		

Location				
County	DELAWARE (23)			
Route	0030			
Segment	0040			
Offset	1500			
Latitude	40.04318			
Longitude	-75.37598			



Traffic Data				
Date	Volume	Truck Volume	Truck %	Volume Graph
Aug 19, 1993	24,248			
Aug 03, 1999	29,953			
Oct 22, 2002	28,331			
Jan 04, 2006	26,750			
Oct 15, 2008	28,779			
Oct 18, 2011	13,465	558	4.1	
Oct 28, 2014	28,086			



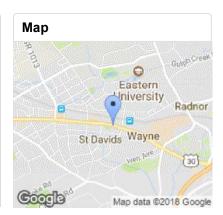
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MEMORANDUM

Date: July 10, 2018

To: Steve F. Norcini, P.E.

Radnor Township Engineer

From: Amy Kaminski, P.E., PTOE

Gilmore & Associates, Inc.

cc: Roger Phillips, P.E., Senior Associate, Gannett Fleming, Inc.

Damon Drummond, P.E., PTOE, Gilmore & Associates, Inc.

Leslie A. Salsbury, E.I.T., Gilmore & Associates, Inc.

Reference: Wawa – 302-306 E. Lancaster Avenue (S.R. 0030) & Aberdeen Avenue

TIS Scoping Application Review

Radnor Township, Delaware County, PA

G&A 18-06057

We have reviewed the TIS Scoping Application prepared for Wayne Property Acquisitions, Inc., (Wawa near West Lancaster Avenue and Aberdeen Avenue) and offer the following comments for your consideration:

A. BACKGROUND

The subject properties are situation in the C-2 Commercial Zoning District operating under the permitted By-Right retail use. The parcels are located along the south side of Lancaster Avenue, east of Aberdeen Avenue at 302 E. Lancaster Avenue and 306 E. Lancaster Avenue. The parcel located at 302 E. Lancaster Avenue currently operates as a full-service motor vehicle repair shop along with the retail sale of gasoline and the parcel located at 306 E. Lancaster Avenue operates as a car wash and includes the retail sale of gasoline. The Applicant proposes consolidating the two parcels, demolishing the existing structures and constructing a new retail convenience store of 5,112 SF, with 55 parking spaces and offer the retail sale of gasoline at 12 retail gas pumps.

B. DOCUMENTS REVIEWED

- Zoning Opinion letter issued by Kevin Kochanski, RLA, CZO, Radnor Township Director of Community Development; addressed to Nick Caniglia, Esq., of Pierce, Caniglia & Taylor, dated April 27, 2018.
- 2. Transportation Impact Study (TIS) Scoping Application, prepared for Wawa Lancaster Avenue & Aberdeen Avenue, prepared by Traffic Planning and Design, dated June 13, 2018.

Steve Norcini, P.E. Re: Wawa 302-306 E. Lancaster Ave. and Aberdeen Ave.

3. Concept Plan, prepared for Wayne Property Acquisition, Inc., prepared by Bohler Engineering, dated April 9, 2018.

C. TRANSPORTATION COMMENTS

We recommend the Applicant address the following comments in the impending Transportation Impact Study. If the Applicant is agreeable to the following modifications, we find it unnecessary to schedule a Scoping Application meeting to discuss the project with PennDOT:

- §255-26 In addition to the reviewed information proposed by the Applicant in the Transportation Impact Study Scoping Application and based on the requirements of this section of the Township Ordinance, the Applicant shall also address the following items in the Transportation Impact Study:
 - i) Include manual turning movement counts as offered in the TIS Scoping Application and include the following additional intersections:
 - Lancaster Avenue & Wayne Avenue
 - Lancaster Avenue & Louella Avenue
 - Lancaster Avenue & St. Davids Road/Chamounix Road
 - ii) Include the 24 hour ADT volumes and speed information for the following roadway segments:
 - Lancaster Avenue
 - Aberdeen Avenue
 - iii) Verify the size of the proposed building. The scoping application notes the retail building as 4,736 SF in size while the provided concept plan notes the retail building as 5,112 SF in size.
 - iv) The Scoping Application indicates the distribution and assignment will be based on the existing traffic patterns, roadways surrounding the site and the proposed site driveway location and configuration. We would prefer the Distribution and Assignment more heavily favor the existing site distribution because we anticipate the traffic associated with future retail use will behave similar to the current retail use.
 - v) Section 17 Other Needed Analyses; left turn signal phasing analysis shall be prepared for all signalized intersections.

D. REVIEW OF PROVIDED CONCEPT PLAN

The following comments are based on a sketch plan review of the provided concept plan; any comments identified as a Subdivision and Land Development Ordinance comment (identified by the "§") shall be addressed during the eventual Land Development process or the Applicant will be required to seek a waiver.

1. §255-27.B(3)(b) (Lancaster Avenue) and (d) (Aberdeen Avenue); and §255-27.C(1) – The Township legal Right-of-Way on Lancaster Avenue (S.R. 0030) is 80'; and on Aberdeen Avenue the Township legal Right-of-Way is 60'.

Steve Norcini, P.E. Re: Wawa 302-306 E. Lancaster Ave. and Aberdeen Ave.

- 2. §255-27.I(2) Access to parking areas on commercial sites shall be controlled and shall be so located as to provide a minimum of 200 feet between points of access. We recommend eliminating the most western Lancaster Avenue access.
- 3. §255-30.E We recommend relocating the loading area to a more optimal onsite location; the current location is too close to both proposed driveways to Lancaster Avenue.
- 4. 255-37.B. The Township requires a minimum 4' sidewalk width; in addition, the Township has been requiring a 2' grass verge between the face of curb and the closest edge of the sidewalk.
- 5. We recommend the Applicant relocate the Air Machine (tire filling station) further away from the proposed driveway access on Aberdeen Avenue to minimize potential conflicts with vehicles utilizing this driveway.
- 6. The Township is intending on installing a Traffic Adaptive System along Lancaster Avenue that will extend from the Radnor Township municipal line beginning at County Line Road and continuing west and including all signalized intersections to the Radnor Financial Center/St. David's Square Shopping Center intersection on Lancaster Avenue. St. Davids Road/Chamounix Road, Louella Avenue and Wayne Avenue are the next three logical intersections to be included in the corridor Traffic Adaptive System.

LISA BOROWSKI

President

LUCAS A. CLARK, ESQ.

Vice President

JAKE ABEL

RICHARD F. BOOKER, ESQ. SEAN FARHY MATTHEW MARSHALL

JOHN NAGLE

RADNOR TOWNSHIP
301 IVEN AVENUE
WAYNE, PENNSYLVANIA 19087-5297

Phone (610) 688-5600 Fax (610) 971-0450 www.radnor.com

April 27, 2018

ROBERT A. ZIENKOWSKI

Township Manager Township Secretary

JOHN B. RICE, ESQ.
Solicitor

KATHRYN GARTLAND

Treasurer

Wayne, PA 19087

SUBJECT: 302-306 EAST LANCASTER AVENUE

Mr. Caniglia,

Nick Caniglia PO Box 312

I have received and reviewed your letter dated April 17, 2018 requesting a Zoning Opinion for the above subject property. Currently, the site consists of 2 properties. The use of these properties includes the retail sale of gasoline, a full-service motor vehicle repair station, and a car wash. The owner is proposing to consolidate the two (2) parcels; demolish the existing structures and construct a new retail store and new retail sales of gasoline. I offer the following for your consideration:

- 1. The subject site is located in the C-2 General Commercial Zoning District.
- 2. Retail uses are permitted By-Right in the C-2 district.
- 3. The Use provisions of ZO Section 280-49.A requiring all uses to be completely enclosed within a building is an existing non-conformity; which is proposed to reduced. Currently, the two (2) sites maintains 20 retail gas pumps. The proposed condition would contain 12 retail gas pumps.
- 4. The Use provision of ZO Section 280-49.D requiring no goods shall be displayed or offered for sale beyond the front lines of a building is an existing non-conformity; which is proposed to be reduced.

A thorough zoning review has not been completed. This opinion applies only to the issue noted above. The property owner is responsible for securing all other necessary permits and approvals; as well as compliance with all applicable Municipal Codes/Regulations. If you have any questions regarding this determination, please contact me.

Sincerely,

Kevin W. Kochanski, RLA, CZO

Director of Community Development

cc: Property File

PIERCE, CANIGLIA & TAYLOR

ATTORNEYS AT LAW

125 Strafford Avenue - Suite 110

P. O. Box 312

WAYNE, PENNSYLVANIA 19087

JAMES M. PIERCE NICHOLAS J. CANIGLIA KENNETH C. TAYLOR

April 16, 2018

TELEPHONE (610) 688-2626 FAX (610) 688-5761

Kevin W. Kochanski Director of Community Development Radnor Township 301 Iven Avenue Wayne, PA 19087

Re: Zoning Determination Opinion

302-306 E. Lancaster Avenue, Wayne

Dear Kevin:

Kindly issue a determination letter indicating the compliance of the attached Plan with the provisions of the Radnor Township Zoning Code. In your opinion please provide what relief, if any, including the type of relief, is required from the provisions of the Zoning Code. Enclosed is the fee of \$100.00.

302 E. Lancaster Avenue and 306 E. Lancaster Avenue are adjacent parcels located on the south side of Lancaster Avenue. 302 E. Lancaster currently houses a full-service motor vehicle repair shop and the retail sale of gasoline. 306 E. Lancaster Avenue is operated as a car wash and also includes the retail sale of gasoline. The owner of the lots intends to combine the lots into one lot and maintain a retail convenience store together with the retail sale of gasoline. The motor vehicle repair use and the car wash use will be discontinued.

The Plan attached indicates the existing zoning conditions and the proposed development of the site. The proposed parking and loading calculations are also provided.

Thank you for your time and consideration. If you have any questions or need any further information please do not hesitate to contact me.

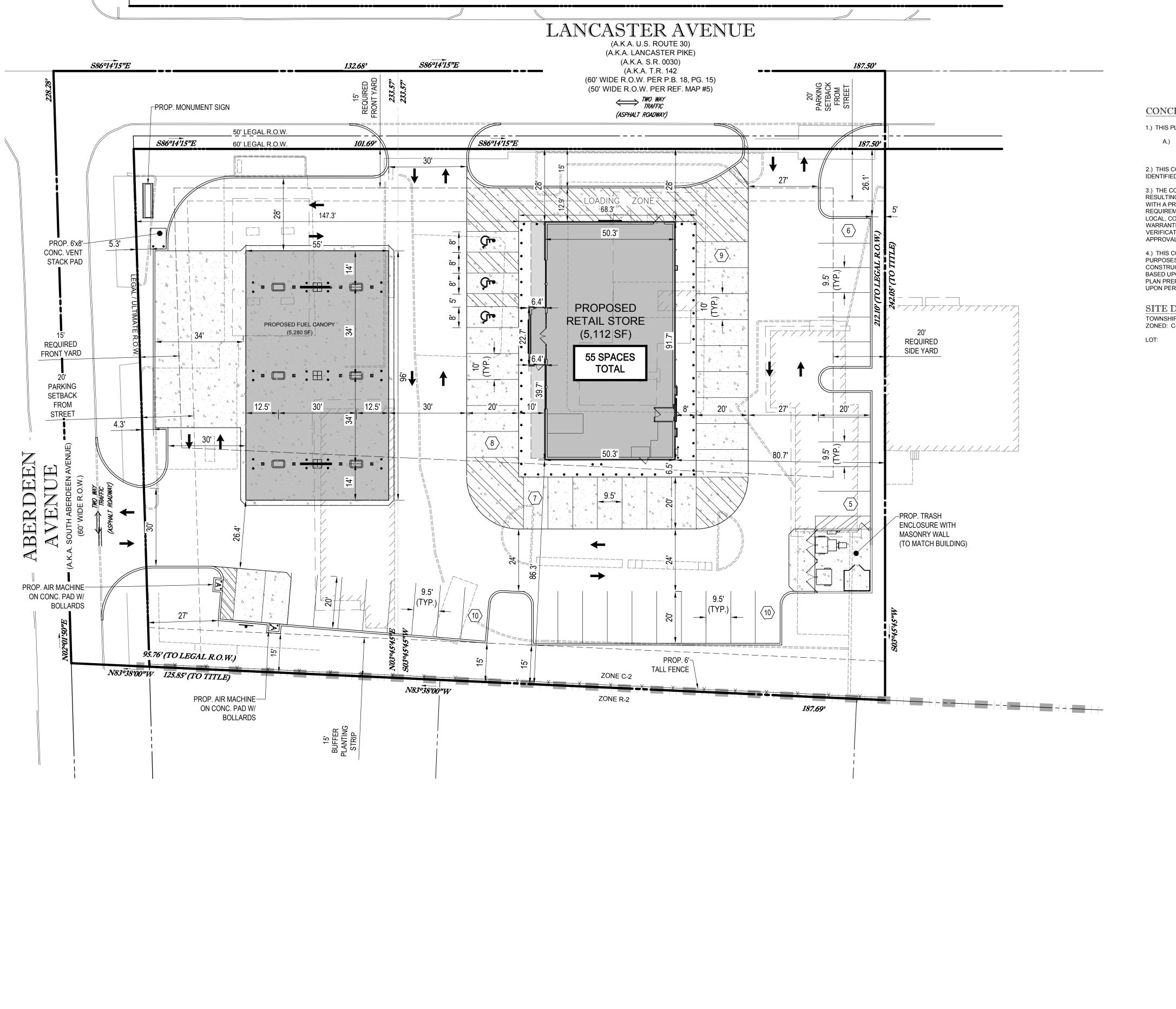
Very truly yours,

NICHOLAS J. CANIGLIA

Enc.

APR 1 9 2018

COMMUNITY DEVELOPMENT



CONCEPT PLAN GENERAL NOTES

1.) THIS PLAN REFERENCES DOCUMENTS AND INFORMATION BY:

A.) ALTA/NSPS LAND TITLE SURVEY PREPARED BY CONTROL POINT ASSOCIATES, INC. DATED: 2/22/2018

2.) THIS CONCEPT WAS PREPARED STRICTLY BASED UPON INFORMATION IDENTIFIED ABOVE.

3.) THE CONCEPT REPRESENTED HEREIN IDENTIFIES A DESIGN CONCEPT RESULTING FROM LAYOUT PREFERENCES IDENTIFIED BY THE OWNER COUPLED WITH A PRELIMINARY REVIEW OF ZONING AND LAND DEVELOPMENT REQUIREMENTS AND ISSUES. THE FEASIBILITY WITH RESPECT TO OBTAINING LOCAL, COUNTY, STATE, AND OTHER APPLICABLE APPROVALS ARE NOT WARRANTED AND CAN ONLY BE ASSESSED AFTER FURTHER EXAMINATION AND VERIFICATION OF SAME REQUIREMENTS AND PROCUREMENT OF JURISDICTIONAL

4.) THIS CONCEPT PLAN IS PREPARED FOR CONCEPTUAL PRESENTATION PURPOSES ONLY AND IS NOT INTENDED FOR UTILIZATION AS A ZONING AND/OR CONSTRUCTION DOCUMENT. THE EXISTING CONDITIONS SHOWN HEREON ARE BASED UPON INFORMATION THAT WAS SUPPLIED TO OUR OFFICE AT THE TIME OF PLAN PREPARATION AND MAY BE SUBJECT TO CHANGE AND MUST BE UPDATED UPON PERFORMANCE OF ADDITIONAL DUE DILIGENCE.

SITE DATA TOWNSHIP OF RADNOR, DELAWARE COUNTY, PA

ZONED: C-2 - GENERAL COMMERCIAL DISTRICT

1.35± Ac. (TO LEGAL / ULTIMATE R.O.W.)



STTE CIVIL AND CONSULTING ENGINEERING

SUSTAINABLE DESIGN PERMITTING SERVICES TRANSPORTATION SERVICES

UPSTATE NEW YORK

UPSTATE

REVISIONS

REV DATE COMMENT BY

CALL BEFORE YOU DIG!

PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE - STOP CALL

PAI SYSTEM, INC. 1-800-242-1776

NOT APPROVED FOR CONSTRUCTION

PROJECT No.: PC181016
DRAWN BY: M.C.M.
CHECKED BY: E.A.B.
DATE: 2018.04.09
SCALE: AS NOTED
CAD I.D.: PC181016 CONCEPT C-3

PROJECT:

CONCEPT PLAN

WAYNE PROPERTY

ACQUISITION INC.

ROUTE 30 (LANCASTER AVE.) & ABERDEEN AVE. RADNOR TOWNSHIP DELAWARE COUNTY, PA

BOHLER ENGINEERING

1600 MANOR DRIVE, SUITE 200
CHALFONT, PENNSYLVANIA 18914
Phone: (215) 996-9100
Fax: (215) 996-9102
www.BohlerEngineering.com

E.A. BRIT

PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. PE074843

SHEET TITLE:

CONCEPT
PLAN
'C-3'

SHEET NUMBER:

1 OF 1

REVISION 0