City of ALACHUA

THE GOOD LIFE COMMUNITY

FOR PLANNING USE ONLY
Case #: _____
Application Fee: $_____
Filing Date: _____
Acceptance Date: _____
Review Type: P&Z

Site Plan Application

Reference City of Alachua Land Development Regulations Article 2.4.9

A. PROJECT

1. Project Name: Alachua Family Dollar & AutoZone
2. Address of Subject Property: 15483 & 15535 NW US Highway 441, Alachua, Florida 32615
3. Parcel ID Number(s): 03067-001-003 & 03067-001-004
4. Existing Use of Property: Commercial
5. Future Land Use Map Designation : Commercial
6. Zoning Designation: CI Commercial Intensive
7. Acreage: 2.08

B. APPLICANT

1. Applicant's Status ☐ Owner (title holder) ☒ Agent
2. Name of Applicant(s) or Contact Person(s): Peter M. Maastricht, P.E. Title: President
   Company (if applicable): Maastricht Engineering, Inc.
   Mailing address: 12800 University Drive, Suite 402
   City: Fort Myers State: Florida ZIP: 33907
   Telephone: (239) 362-1605 FAX: (239) 267-8704 e-mail: petem@maastricht-eng.com
3. If the applicant is agent for the property owner*:
   Name of Owner (title holder): John Hamilton
   Mailing Address: 495 Highway 174
   City: Edisto Island State: South Carolina ZIP: 29438

   * Must provide executed Property Owner Affidavit authorizing the agent to act on behalf of the property owner.

C. ADDITIONAL INFORMATION

1. Is there any additional contact for sale of, or options to purchase, the subject property? ☐ Yes ☒ No
   If yes, list names of all parties involved: _____
   If yes, is the contract/option contingent or absolute? ☐ Contingent ☐ Absolute

D. ATTACHMENTS

1. Site Plan including but not limited to:
   a. Name, location, owner, and designer of the proposed development.
   b. Zoning of the subject property.
   c. Vicinity map - indicating general location of the site and all abutting streets and properties.
   d. Complete legal description.
   e. Statement of Proposed Uses.
   f. Location of the site in relation to adjacent properties, including the means of ingress and egress to such properties and any screening or buffers along adjacent properties.
   g. Date, north arrow, and graphic scale (not to exceed one (1) inch equal to fifty (50) feet.)
   h. Area and dimensions of site.
   i. Location of all property lines, existing right-of-way approaches, sidewalks, curbs, and gutters.
   j. Access and points of connection to utilities (electric, potable water, sanitary sewer, gas, etc.)
   k. Location and dimensions of all existing and proposed parking areas and loading areas.
   l. Location, size, and design of proposed landscaped areas (including existing trees and required landscaped buffer areas) with detail illustrating compliance with Section 6.2.2 of the Land Development Regulations.

m. Location and size of any lakes, ponds, canals, or other waters and waterways.
n. Structures and major features – fully dimensioned – including setbacks, distances between structures, floor area, width of driveways, parking spaces, property or lot lines, and floor area ratio.
o. Location of waste receptacles and detail of waste receptacle screening.
p. For development consisting of one or more of the following: Multi-family residential; Hotel; or Mobile Home Park:
    i. Tabulation of gross acreage.
    ii. Tabulation of density.
    iii. Number of dwelling units proposed.
    iv. Location and percent of total open space and recreation areas.
    v. Floor area of dwelling units.
    vi. Number of proposed parking spaces.
    vii. Street layout.
    viii. Layout of mobile home stands (for mobile home parks only).
    ix. City of Alachua Public School Student Generation Form.

Sheet Size: 24" X 36" with 3" left margin and ½" top, bottom, and right margins

2. Stormwater management plan - including the following:

    a. Existing contours at one (1) foot intervals based on U.S. Coastal and Geodetic Datum.
    b. Proposed finished floor elevation of each building site.
    c. Existing and proposed stormwater management facilities with size and grades.
    d. Proposed orderly disposal of surface water runoff.
    e. Centerline elevations along adjacent streets.
    f. Water Management District surfacewater management Statement of proposed uses on the site plan

3. Fire Department Access and Water Supply: The design criteria shall be Chapter 18 of the Florida Fire Prevention Code. Plans must be on separate sealed sheets and must be prepared by a professional Fire engineer licensed in the State of Florida. Fire flow calculations must be provided for each newly constructed building. When required, fire flow calculations shall be in accordance with the Guide for Determination of Required Fire Flow, latest edition, as published by the Insurance Service Office (ISO) and /or Chapter 18, Section 18.4 of the Florida Fire Prevention Code, whichever is greater. All calculations must be demonstrated and provided. All calculations and specifications must be on the plans and not on separate sheets. All fire protection plans are reviewed and approved by the Alachua County Fire Marshal.

4. Concurrency Impact Analysis showing the impact on public facilities, including potable water, sanitary sewer, transportation, solid waste, recreation, stormwater, and public schools in accordance with Article 2.4.14 of the Land Development Regulations.

5. Analysis of Consistency with the City of Alachua Comprehensive Plan (analysis must identify specific Goals, Objectives, and Policies and describe in detail how the application complies with the noted Goal, Objective, or Policy.)

For commercial project Applications:

a. In addition to submitting specific written information regarding your **commercial** development's compliance with the relevant Goals, Objectives, and Policies of the City of Alachua Comprehensive Plan, you must respond directly to the standards listed below. You should be specific in terms of how your commercial development will comply with these standards.

    Policy 1.3.d Design and performance standards

    The following criteria shall apply when evaluating commercial development proposals:

    1. Integration of vehicular and non-vehicular access into the site and access management features of site in terms of driveway cuts and cross access between adjacent sites, including use of frontage roads and/or shared access;
    2. Buffering from adjacent existing/potential uses;
    3. Open space provisions and balance of proportion between gross floor area and site size;
    4. Adequacy of pervious surface area in terms of drainage requirements;
    5. Placement of signage;
    6. Adequacy of site lighting and intrusiveness of lighting upon the surrounding area;
    7. Safety of on-site circulation patterns (patron, employee and delivery vehicles), including parking layout and drive aisles, and points of conflict;

8. Landscaping, as it relates to the requirements of the Comprehensive Plan and Land Development Regulations;
9. Unique features and resources which may constrain site development, such as soils, existing vegetation and historic significance; and
10. Performance based zoning requirements, which may serve as a substitute for or accompany land development regulations in attaining acceptable site design.
11. Commercial uses shall be limited to an intensity of less than or equal to .50 floor area ratio for parcels 10 acres or greater, .50 floor area ratio for parcels less than 10 acres but 5 acres or greater, a .75 floor area ratio for parcels less than 5 acres but greater than 1 acre, and 1.0 floor area ratio to parcels 1 acre or less.

For industrial project Applications:

b. In addition to submitting specific written information regarding your **industrial** development's compliance with the relevant Goals, Objectives, and Policies of the City of Alachua Comprehensive Plan, you must respond directly to the standards listed below. You should be specific in terms of how your industrial development will comply with these standards.

Policy 1.5.d

The City shall develop performance standards for industrial uses in order to address the following:
1. Integration of vehicular and non-vehicular access into the site and access management features of site in terms of driveway cuts and cross access between adjacent sites, including use of frontage roads and/or shared access;
2. Buffering from adjacent existing/potential uses;
3. Open space provisions and balance of proportion between gross floor area and site size;
4. Adequacy of pervious surface area in terms of drainage requirements;
5. Placement of signage;
6. Adequacy of site lighting and intrusiveness of lighting upon the surrounding area;
7. Safety of on-site circulation patterns (patron, employee and delivery vehicles, trucks), including parking layout and drive aisles, and points of conflict;
8. Landscaping, as it relates to the requirements of the Comprehensive Plan and Land Development Regulations;
9. Unique features and resources which may constrain site development, such as soils, existing vegetation and historic significance; and
10. Performance based zoning requirements that may serve as a substitute for or accompany land development regulations in attaining acceptable site design.
11. Industrial uses shall be limited to an intensity of less than or equal to .50 floor area ratio for parcels 10 acres or greater, .50 floor area ratio for parcels less than 10 acres by 5 acres or greater, .75 floor area ratio for parcels less than 5 acres but greater than 1 acre, and 1.0 floor area ratio for parcels 1 acre or less.

6. *For Site Plans for Buildings Less than 80,000 Square Feet in Area:* One (1) set of labels for all property owners within 400 feet of the subject property boundaries – even if property within 400 feet falls outside of City limits (obtain from the Alachua County Property Appraiser's web site) – and all persons/organizations registered to receive notice of development applications.
For Site Plans for Buildings Greater than or Equal to 80,000 Square Feet in Area: Two (2) sets of labels for all property owners within 400 feet of the subject property boundaries – even if property within 400 feet falls outside of City limits (obtain from the Alachua County Property Appraiser's web site) – and all persons/organizations registered to receive notice of development applications.

7. Neighborhood Meeting Materials, including:
   i. Copy of the required published notice (advertisement) – must be published a newspaper of general circulation, as defined in Article 10 of the City's Land Development Regulations
   ii. Copy of written notice (letter) sent to all property owners within 400 feet and to all persons/organizations registered with the City to receive notice, and mailing labels or list of those who received written notice
   iii. Written summary of meeting – must include (1) those in attendance; (2) a summary of the issues related to the development proposal discussed; (3) comments by those in attendance about the development proposal; and, (4) any other information deemed appropriate.

8. Legal description with tax parcel number.

9. Proof of ownership.

10. Proof of payment of taxes.

11. Environmental Resource Permit (or Letter of Exemption) from the Suwannee River Water Management District or Self-Certification for a Stormwater Management System in Uplands Serving Less than 10 Acres of Total Project Area and Less than 2 Acres of Impervious Surfaces from the Florida Department of Environmental Protection pursuant to Section 403.814(12), Florida Statutes.

12. If access is from a County Road, access management permit from Alachua County Public Works (or documentation providing evidence that a permit application has been submitted).

13. If access is from a State Road, access management permit from Florida Department of Transportation (or documentation providing evidence that a permit application has been submitted).

14. **Fee.** Please see fee schedule for fee determination. No application shall be accepted for processing until the required application fee is paid in full by the applicant. Any necessary technical review or additional reviews of the application beyond the initial engineering review fee will be billed to the applicant at the rate of the reviewing entity. The invoice shall be paid in full prior to any legislative and/or quasi-judicial action of any kind on the petition, appeal, or development application.

All 14 attachments are required for a complete application. A completeness review of the application will be conducted within five (5) business days of receipt. If the application is determined to be incomplete, the application will be returned to the applicant.

I/We certify and acknowledge that the information contained herein is true and correct to the best of my/our knowledge.

Signature of Applicant

Signature of Co-applicant

Peter M. Maastricht, P.E., President

Typed or printed name and title of applicant

Typed or printed name of co-applicant

State of FL County of Lee

The foregoing application is acknowledged before me this 29th day of Aug., 2014, by Peter Maastricht

_____, who is/are personally known to me, or who has/have produced _____

as identification.

NOTARY SEAL

MARGARET SHEEHAN
Commission # EE 102593
Expires June 20, 2015
Bonded Thru Troy Fain Insurance 800-385-7019

Margaret Sheehan
Signature of Notary Public, State of Florida

Parcel: 03067-001-004

Search Date: 9/9/2014 at 2:13:22 PM - Data updated: 09/09/14

Taxpayer:	ALACHUA 441 WASH LLC
Mailing:	6231 SW 37TH WAY GAINESVILLE, FL 32608
Location:	15483 NW US HWY 441 ALACHUA
Sec-Twn-Rng:	15-8-18
Use:	Service Shops
Tax Jurisdiction:	Alachua
Area:	Alachua Commercial
Subdivision:	PlaceHolder

Legal: COM NE COR SEC W ALG N/L 1320 FT TO NW COR LOT 10 HITCHCOCKS ADDN S 1080.60 FT TO NLY R/W US 441 N 54 DEG W ALG NELYR/W US 441 84.84 FT POB CONT N 54 DEG W 310 FT N 36 DEG E 200 FT S 54 DEG E 107.40 FT SELY ALG CURVE 118.86 FT S158.47 FT S 36 DEG W 29.82 FT POB AKA PARCEL D OR 4149/1388

Current Values

Land	Building	Misc	Total	Deferred	Assessed	Exempt *	Taxable *	Taxes
151600	70100	16200	237900	0	237900	0	237900	5986.75

These numbers reflect County General Fund but do not reflect School Board taxable value.

Assessment History

** Exempt Amount and Taxable Value History reflect County Amounts. School Board and City Amounts may differ. **

Year	Use	Land	MktLand	Building	Misc	Market	SOH Deferred	Assessed	Exempt**	Taxable**	Taxes
2013	Service Shops	151600	151600	70900	16200	238700	0	238700	0	238700	6058.42
2012	Service Shops	151600	151600	71700	17900	241200	0	241200	0	241200	6077.06
2011	Service Shops	151600	151600	72500	19400	243500	0	243500	0	243500	6312.34
2010	Service Shops	151600	151600	73300	21200	246100	0	246100	0	246100	6261.77
2009	Service Shops	151600	151600	82300	22800	256700	0	256700	0	256700	6504.9
2008	Service Shops	151600	151600	83100	24300	259000	0	259000	0	259000	5990.54
2007	Service Shops	151600	151600	102500	26000	280100	0	280100	0	280100	6491.7
2006	Service Shops	151600	151600	94000	27600	273200	0	273200	0	273200	7047.28
2005	Service Shops	151600	151600	72500	29100	253200	0	253200	0	253200	6738.56
2004	Service Shops	151600	151600	71900	25700	249200	0	249200	0	249200	6698.04
2003	Service Shops	101100	101100	70500	25700	197300	0	197300	0	197300	5463.29
2002	Vacant Comm	101100	101100	0	0	101100	0	101100	0	101100	2760.98
2001	Vacant Comm	101100	101100	0	0	101100	0	101100	0	101100	2760.77
2000	Vacant Comm	101100	101100	0	0	101100	0	101100	0	101100	2816.59
1999	Vacant Comm	50500	50500	0	0	50500	0	50500	0	50500	1394.69
1998	Vacant Comm	50500	50500	0	0	50500	0	50500	0	50500	1434
1997	Vacant Comm	50500	50500	0	0	50500	0	50500	0	50500	1464.91
1996	Vacant Comm	50500	50500	0	0	50500	0	50500	0	50500	1479.17
1995	Vacant Comm	50500	50500	0	0	50500	0	50500	0	50500	1479.17

Land

Use	Zoning	Acres
Service Shop	Comm	1.16

Current Land Value: 151600

Building

Actual Year Built	2002
Effective Year Built	2002
Use:	Service Shop
Bedrooms:	0
Baths:	6
Stories:	1

Area Type	Square Footage
Base Area (BAS)	3336

Heated Area: 3336 Total Area: 3336

Exterior Wall:	Concrete Block
AC:	None
Heating:	None

Current Building Value: 70100

Miscellaneous

Description	Units
Paving 1	26900
Lights	3
Fence CB	150
Patio 1	100

Current Miscellaneous Value: 16200

Sale

Date	Price	Vacant	Qualified	OR Book	OR Page	Instrument
10/31/2012	375000	No	No	4149	1388	Warranty Deed
02/14/2008	1300000	No	Yes	3744	0317	Warranty Deed
08/13/2004	100	No	No	2977	0234	Quitclaim Deed
03/14/2002	185000	Yes	Yes	2428	1779	Warranty Deed
01/18/2000	100	Yes	No	2272	2081	Mult Sale
01/13/2000	240000	Yes	No	2272	2087	Mult Sale
01/13/2000	100	Yes	No	2272	2085	Mult Sale
01/12/1996	2100000	No	No	2048	0077	Mult Sale
08/03/1993	2770600	Yes	No	1921	0749	Mult Sale
05/10/1989	285600	Yes	No	1735	1740	Mult Sale

Permit

County Permit information is supplied by the Alachua County Office of Codes Enforcement. The Alachua County Office of Codes Enforcement and the Property Appraiser's Office assume no liability whatsoever associated with the use or misuse of this public information data and will not be held liable as to the validity, correctness, accuracy, completeness, and / or reliability of this data.

Permit Number	Permit Type	Issue Date	Final Date	Appraisal Date	Comment
A1-13-2904	Comm Remodel Permit	01/14/2013	00/00/0000	01/09/2014	NEW SIDING

Parcel: 03067-001-003

Search Date: 9/9/2014 at 2:14:45 PM - Data updated: 09/09/14

Taxpayer:	HWY 441 PARTNERS LLC
Mailing:	12730 NW 12TH RD NEWBERRY, FL 32669
Location:	15535 NW US HWY 441 ALACHUA
Sec-Twn-Rng:	15-8-18
Use:	Rest, Drive-in
Tax Jurisdiction:	Alachua
Area:	Alachua Commercial
Subdivision:	PlaceHolder

Legal: COM NE COR SEC W ALG N/L 1320 FT TO NW COR LOT 10 HITCHCOCKS ADDN S 1080.60 FT TO NLY R/W US-441 N 54 DEG W ALG NELYR/W US 441 394.84 FT POB CONT N 54 DEG W 200 FT N 36 DEG E 200 FT S 53 DEG E 200 FT S 36 DEG W 200 FT POB AKAPARCEL C OR 3490/1433

Current Values

Land	Building	Misc	Total	Deferred	Assessed	Exempt *	Taxable *	Taxes
120200	21900	7000	149100	0	149100	0	149100	3781.67

These numbers reflect County General Fund but do not reflect School Board taxable value.

Assessment History

** Exempt Amount and Taxable Value History reflect County Amounts. School Board and City Amounts may differ. **

Year	Use	Land	MktLand	Building	Misc	Market	SOH Deferred	Assessed	Exempt**	Taxable**	Taxes
2013	Rest, Drive-in	120200	120200	22400	7600	150200	0	150200	0	150200	3728.58
2012	Rest, Drive-in	120200	120200	22900	8300	151400	0	151400	0	151400	3752.56
2011	Rest, Drive-in	120200	120200	22900	9000	152100	0	152100	0	152100	3852.83
2010	Rest, Drive-in	120200	120200	48800	9600	178600	0	178600	0	178600	4527.66
2009	Rest, Drive-in	120200	120200	54800	10200	185200	0	185200	0	185200	4674.94
2008	Rest, Drive-in	120200	120200	54800	10800	185800	0	185800	0	185800	4246.2
2007	Rest, Drive-in	120200	120200	51300	0	171500	0	171500	0	171500	3936.03
2006	Rest, Drive-in	120200	120200	47100	0	167300	0	167300	0	167300	4269.91
2005	Rest, Drive-in	120200	120200	41000	0	161200	0	161200	0	161200	4242.39
2004	Vacant Comm	120200	120200	0	0	120200	0	120200	0	120200	3162.55
2003	Vacant Comm	80200	80200	0	0	80200	0	80200	0	80200	2159.44
2002	Vacant Comm	80200	80200	0	0	80200	0	80200	0	80200	2190.2
2001	Vacant Comm	80200	80200	0	0	80200	0	80200	0	80200	2190.04
2000	Vacant Comm	80200	80200	0	0	80200	0	80200	0	80200	2234.32
1999	Vacant Comm	40100	40100	0	0	40100	0	40100	0	40100	1107.47
1998	Vacant Comm	40100	40100	0	0	40100	0	40100	0	40100	1138.68
1997	Vacant Comm	40100	40100	0	0	40100	0	40100	0	40100	1163.24
1996	Vacant Comm	40100	40100	0	0	40100	0	40100	0	40100	1174.54
1995	Vacant Comm	40100	40100	0	0	40100	0	40100	0	40100	1174.55

Land

Use	Zoning	Acres
Restaurant Drive-In	Comm	0.92
		Current Land Value: 120200

Building

Actual Year Built	2004
Effective Year Built	2004
Use:	Rest Fast Food
Bedrooms:	0
Baths:	5
Stories:	1

Area Type	Square Footage
Base Area (BAS)	510
	Heated Area: 510 Total Area: 510

Exterior Wall:	CB Stucco
AC:	Roof Top Air
Heating:	Forced Air Duct

Current Building Value: 21900

Miscellaneous

Description	Units
Paving 1	9052
Drive/Walk	1478

Current Miscellaneous Value: 7000

Sale

Date	Price	Vacant	Qualified	OR Book	OR Page	Instrument
11/02/2006	585000	No	No	3490	1433	Warranty Deed
11/02/2006	100	No	No	3600	0584	Warranty Deed
08/13/2004	175000	No	Yes	2977	0236	Warranty Deed
01/18/2000	100	Yes	No	2272	2081	Mult Sale
01/13/2000	240000	Yes	No	2272	2087	Mult Sale
01/13/2000	100	Yes	No	2272	2085	Mult Sale
01/12/1996	2100000	No	No	2048	0077	Mult Sale
08/03/1993	2770600	Yes	No	1921	0749	Mult Sale
05/10/1989	285600	Yes	No	1735	1740	Mult Sale

Permit

County Permit information is supplied by the Alachua County Office of Codes Enforcement. The Alachua County Office of Codes Enforcement and the Property Appraiser's Office assume no liability whatsoever associated with the use or misuse of this public information data and will not be held liable as to the validity, correctness, accuracy, completeness, and / or reliability of this data.

Permit Number	Permit Type	Issue Date	Final Date	Appraisal Date	Comment
``-12-2655	Mechanical	07/17/2012	00/00/0000	01/10/2013	REPLACE PACKAGE UNIT
A6-12-2635	Roofing	06/28/2012	00/00/0000	01/10/2013	PEEL-N-STICK ROOF
A6-12-2623	Miscellaneous	06/21/2012	00/00/0000	01/10/2013	RF,ELE,PLUM,A/C REPAIR

CONTRACT PURCHASER
~~PROPERTY OWNER~~ AFFIDAVIT

~~Owner Name~~: Contract Purchaser Name: John Hamilton, Hamilton Development			
Address: 495 Highway 174, Edisto Island, SC 29438	Phone: (843) 868-0067		
Agent Name: Peter M. Maastricht, P.E.			
Address: 12800 University Drive, Suite 402, Ft. Myers, Fl 33907	Phone: (239) 362-1605		
Parcel No.: 03067-001-003 & 03067-001-004			
Acreage: 2.08	S: 15	T: 8	R: 18

Requested Action:

The construction of both a Family Dollar & AutoZone retail establishments, along with corresponding driveways, parking, utilities, drainage, landscaping, and turn lane.

I hereby certify that: Contract Purchaser
I am the ~~property owner of record~~. I authorize the above listed agent to act on my behalf for the purposes of this application.

Contract Purchaser
~~Property owner~~ signature: _____

Printed name: John Hamilton, Hamilton Development

Date: 8/29/14

The foregoing affidavit is acknowledged before me this 29 day of August, 2014, by John Hamilton, who is/are personally known to me, or who has/have produced _____ as identification.

NOTARY SEAL

_____
Signature of Notary Public, State of SC

LETTER OF AUTHORIZATION

We / I Andrew Hodor on behalf of Highway 441 Partners, LLC, being first duly sworn, depose and say that we / I are the owners of the property described herein; and hereby appoint the CONTRACT PURCHASER named below to act as it's agent in connection with obtaining all approvals, authorizations, permissions, permits, designations and classifications desired by CONTRACT PURCHASER for the property(s) described as exhibit A.

As property owner we / I authorize JOHN HAMILTON of HAMILTON DEVELOPMENT, INC. as the (CONTRACT PURCHASER) to act as our representative in any matters regarding this petition.

(Signature of Property Owner)

Andrew Hodor
(Printed Name of Property Owner)

State of Florida
County of

The foregoing instrument was acknowledged before me this 2 day of Sept., 2014 by Andrew Hodor, who is personally known to me or who has produced _____ as identification.

(Signature of Notary Public)

(Notary Seal)

Printed Name of Notary

ANDREA G. REVELL
Commission # FF 100260
Expires June 1, 2016
Bonded Thru Troy Fain Insurance 800-385-7019

HAMILTON DEVELOPMENT, INC.

Note:This online database was last updated on 9/8/2014 6:01:37 PM.
See our Disclaimer.

DOMESTIC / FOREIGN:	Domestic
STATUS:	Good Standing
STATE OF INCORPORATION / ORGANIZATION:	SOUTH CAROLINA Profit

REGISTERED AGENT INFORMATION

REGISTERED AGENT NAME:	JOHN A. HAMILTON JR.
ADDRESS:	239 BUTTERFLY LANE
CITY:	PAMARIA
STATE:	SC
ZIP:	29126
SECOND ADDRESS:	

FILE DATE:	01/21/1998
EFFECTIVE DATE:	01/21/1998
DISSOLVED DATE:	/ /

Corporation History Records

CODE	FILE DATE	COMMENT	Document
Amendment	12/13/2011	CH NM FR HAMILTON CONSTRUCTION & DEVELOPMENT, INC.	
Amendment	08/26/2004	CH NM FR-CURB APPEAL, INC.	
Forfeiture	11/17/2000	IN ERROR BY DOR	Image
Forfeiture	09/25/2000	FORFEITURE #2	Image
Incorporation	01/21/1998	INCORPORATION	Image

Detail by Entity Name

Florida Limited Liability Company

HWY. 441 PARTNERS, LLC

Filing Information

Document Number	L06000094426
FEI/EIN Number	383742910
Date Filed	09/26/2006
State	FL
Status	ACTIVE
Effective Date	09/26/2006

Principal Address

12730 NW 12th Rd
Newberry, FL 32669

Changed: 01/08/2014

Mailing Address

12730 NW 12th Rd
Newberry, FL 32669

Changed: 01/08/2014

Registered Agent Name & Address

HODOR, ANDREW
12730 NW 12th Rd
Newberry, FL 32669

Address Changed: 01/08/2014

Authorized Person(s) Detail

Name & Address

Title MGRM

HODOR, ANDREW MGRM
12730 NW 12th Rd
Newberry, FL 32669

RECORDED IN OFFICIAL RECORDS
INSTRUMENT # 2338573 2 PGS
2007 MAY 16 03:49 PM BK 3600 PG 584
J. K. "BUDDY" IRBY
CLERK OF CIRCUIT COURT
ALACHUA COUNTY, FLORIDA
CLERK25 Receipt#330510

This instrument prepared by:
HERBERT M. WEBB, ESQ.
4400 NW 23rd Ave., Suite "E"
Gainesville, FL 32606

This Warranty Deed is being re-recorded due to
Omission of the grantee in the original recording

WARRANTY DEED

2338573

THIS INDENTURE, Made this 2nd day of November, 2006, by

TRINA C. EMERSON, LLC, a Florida limited liability company, whose post office address is 27126 N.W. 165th Street, Alachua, Florida 32615, hereinafter called the grantor, and **HWY. 441 PARTNERS, LLC, a FLORIDA limited liability company,** whose post office address is 3760 NW 83rd Street, Suite 1, Gainesville, Florida, hereinafter called the grantee.

WITNESS: that the grantor, for and in consideration of the sum of $10.00 and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situate in **Alachua** County, Florida, viz:

Parcel C:

Being a portion of the Northeast 1/4 of Section 15, Township 8 South, Range 18 East, Alachua County, Florida, more particularly described as follows:

Commence at the Northeast corner of said Section 15; thence South 89 degrees 25" 30' West along the North line of said Section 15; and the North line of Hitchcock's Addition to the City of Alachua as recorded in Plat Book "F, page 18 of the Public Records of Alachua County, Florida; for 1320.00 feet to the Northwest corner of Lot 10 of said Hitchcock's Addition, thence South 00 degrees 36' East along the West line of said Hitchcock's Addition and it's Southerly extension for 1080.6 feet to a point on the next described line; thence North 53 degrees 44" 43' West, along the Northeasterly right-of-way line of State Road, No. 20 and 25 (U.S. Highway No. 441) for 394.84 feet to the Point of Beginning; thence continue along said Northeasterly right-of-way line of State Road No. 20 North 53 degrees 44" 43' West for 200.00 feet; thence 36 degrees 15" 17' East, at right angles to the last described course, for 200.00 feet; thence South 53 degrees 44" 43' East, parallel to the aforementioned Northeasterly right-of-way line of State Road No. 20, for 200 feet; thence South 36 degrees 15" 17' West at right angles to the last described course for 200 feet to the Point of Beginning, lying and being in Alachua County, Florida.

Parcel Identification Number: 03067-01-004

INSTRUMENT # 2336573
2 PGS

Subject to the following:

Conditions, restrictions, limitations and easements of record.

SUBJECT TO AND TOGETHER WITH the terms, conditions and easements set forth in the Oakhill Plaza Outparcels C&D Declaration recorded in Official Records Book 2428, page 1771 of the Public Records of Alachua County, Florida.

TOGETHER WITH all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

TO HAVE AND TO HOLD the same in fee simple forever.

AND the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2006, and except for covenants, easements and restrictions of record.

IN WITNESS WHEREOF, Grantor has set his hand and seals the day and year first above written.

Signed, sealed and delivered
in our presence as witnesses:

Print Name: Herbert M. Webb

Print Name: Dea Edens

TRINA C. EMERSON, LLC
By: Trina C. Emerson
Trina C. Emerson, managing member

STATE OF FLORIDA
COUNTY OF ALACHUA

The foregoing instrument was acknowledged before me this 7th day of ~~March~~ May, 2007, by **TRINA C. EMERSON,** managing member of **TRINA C. EMERSON, LLC,** a Florida limited liability company on behalf of the company. She is personally known to me (or who produced _____ as identification.)

Notary Public, State of Florida.
My commission expires:

(Official Notary Seal)

Herbert Mitchell Webb III
My Commission DD040184
Expires July 08, 2008

LETTER OF AUTHORIZATION

We / I Robert S. Johnson, being first duly sworn, depose and say that we / I are the owners of the property described herein; and hereby appoint the CONTRACT PURCHASER named below to act as it's agent in connection with obtaining all approvals, authorizations, permissions, permits, designations and classifications desired by CONTRACT PURCHASER for the property(s) described as exhibit A.

As property owner we / I authorize JOHN HAMILTON of HAMILTON DEVELOPMENT, INC. as the (CONTRACT PURCHASER) to act as our representative in any matters regarding this petition.

(Signature of Property Owner)

Robert S. Johnson
(Printed Name of Property Owner)

State of Florida
County of Alachua

The foregoing instrument was acknowledged before me this 2nd day of September, 2014 by Robert S. Johnson, who is personally known to me or who has produced _____ as identification.

(Signature of Notary Public)

Andra M. Martin
Printed Name of Notary

(Notary Seal)

ANDRA M. MARTIN
MY COMMISSION # EE 115603
EXPIRES: October 21, 2015
Bonded Thru Notary Public Underwriters

Detail by Entity Name

Florida Limited Liability Company

ALACHUA 441 WASH, LLC

Filing Information

Document Number	L12000136825
FEI/EIN Number	46-1277634
Date Filed	10/26/2012
State	FL
Status	ACTIVE
Effective Date	10/26/2012

Principal Address

15483 NW US HWY 441
ALACHUA, FL 32616

Mailing Address

6231 SW 37TH WAY
GAINESVILLE, FL 32608

Registered Agent Name & Address

JOHNSON, ROBERT S
6231 SW 37TH WAY
GAINESVILLE, FL 32608

Authorized Person(s) Detail

Name & Address

Title MGRM

JOHNSON, ROBERT S
6231 SW 37TH WAY
GAINESVILLE, FL 32608

Title MGRM

JOHNSON, RICHARD S
6231 SW 37TH 37TH WAY
GAINESVILLE, FL 32608

RECORDED IN OFFICIAL RECORDS
INSTRUMENT # 2752180 3 PG(S)
November 13, 2012 02:35:20 PM
Book 4109 Page 1388
J. K. IRBY Clerk Of Circuit Court
ALACHUA COUNTY, Florida

Doc Stamp-Deed $2,625.00

Prepared by and return to:
Ronald L. Platt
President
Independence Title Insurance Agency, Inc.
205 NE 5th Terrace
Delray Beach, FL 33444
561-368-3337
File Number: **P12-482**
Will Call No.:

[Space Above This Line For Recording Data]

Warranty Deed

This Warranty Deed made this **31st** day of **October, 2012** between **Santa Fe Splash, LLC, a Florida Limited Liability Company** whose post office address is **4114 West U.S. Highway 90, Lake City, FL 32024**, grantor, and **Alachua 441 Wash, LLC, a Florida Limited Liability Company** whose post office address is **6231 SW 37th Way, Gainesville, FL 32608**, grantee:

(Whenever used herein the terms "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives, and assigns of individuals, and the successors and assigns of corporations, trusts and trustees)

Witnesseth, that said grantor, for and in consideration of the sum of TEN AND NO/100 DOLLARS ($10.00) and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained, and sold, to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in **Alachua County, Florida** to-wit:

See Exhibit A attached.

Parcel Identification Number: 03067 001 004

THE PURCHASE PRICE (CONSIDERATION) PAID IN CONNECTION WITH THE SUBJECT TRANSACTION WAS $375,000.00.

Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

To Have and to Hold, the same in fee simple forever.

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to **December 31, 2012**.

In Witness Whereof, grantor has hereunto set grantor's hand and seal the day and year first above written.

DoubleTime®

Signed, sealed and delivered in our presence:

Witness Name:

Witness Name:

Santa Fe Splash, LLC, a Florida Limited Liability Company

By:
Lawrence D. Bowen, President

By:
Lawrence D. Bowen, Member

State of Florida
County of Columbia

The foregoing instrument was acknowledged before me this 30th day of October, 2012 by Lawrence D. Bowen, President and Lawrence D. Bowen of Santa Fe Splash, LLC, on behalf of said firm. He [ ] are personally known or [X] have produced a driver's license as identification

[Notary Seal]

Notary Public

Printed Name: Becky W Adams

My Commission Expires: 06/17/2013

Notary Public, State of Florida
Becky W Adams
My Commission DD883284
Expires 06/17/2013

Exhibit A

Being a portion of the Northeast 1/4 of Section 15, Township 8 South, Range 18 East, Alachua County, Florida, more particularly described as follows:

Commence at the Northeast corner of said Section 15; thence South 89 deg. 25 min. 30 sec. West along the North line of said Section 15 and the North line of Hitchcock's Addition to the City of Alachua as recorded in Plat Book F, at page 18 of the Public Records of Alachua County, Florida, for 1320.00 feet to the Northwest corner of Lot 10 of said Hitchcock's Addition; thence South 00 deg. 36 min. East, along the West line of said Hitchcock's Addition and its Southerly extension for 1080.6 feet to a point on the next described line; thence North 53 deg. 44 min. 43 sec. West, along the Northeasterly right-of-way line of State Road No. 20 and 25 (U.S. Highway No. 441) for 84.84 feet to the Point of Beginning; thence continue along said Northeasterly right-of-way line of State Road No. 20, North 53 deg. 44 min. 43 sec. West for 310.00 feet; thence North 36 deg. 15 min. 17 sec. East, at right angles to the last described course for 200.00 feet; thence South 53 deg. 44 min. 43 sec. East, parallel to the aforementioned Northeasterly right-of-way line of State Road No. 20, for 107.40 feet to a point of curvature, thence Southeasterly along a curve, concave Southwesterly, having a radius of 155.00 feet, central angle of 43 deg. 56 min. 15 sec. and an arc distance of 118.86 feet to a point on the next described line, a line to said point bears North 80 deg. 11 min. 32 sec. East from the radius point of said curve; thence South 00 deg. 36 min. 00 sec. East, along a line parallel with and 50.00 feet West of, as measured at right angles to the West line of said Hitchcock's Addition, for 158.47 feet; thence South 36 deg. 15 min. 17 sec. West for 29.82 feet to the Point of Beginning, lying and being in Alachua County, Florida.

Parcel Identification Number: 03067 001 004

MAASTRICHT ENGINEERING

NEIGHBORHOOD MEETING

SUBJECT: COMMERCIAL DEVELOPMENT – AUTOZONE AND FAMILY DOLLAR

DATE: THURSDAY, JULY 31, 2014

TIME: 6:00 PM

PLACE: Alachua County Library – Meeting Room A: 14913 NW 140 STREET ALACHUA, FL 32615

CONTACT: ANDRES BORAL AT (239)-362-1605

Maastricht Engineering, Inc. will be holding a meeting to discuss the project located at 15483 NW US Hwy 441 in the City of Alachua. The project consists of an AutoZone retail store and a Family Dollar retail store in 2.08 acres zoned Commercial Intensive (C.I). The permitted uses in this district include retail stores as proposed. The purpose of the meeting is to inform neighboring property owners about the nature of the proposal and to seek comments. We look forward to seeing you there.

NEIGHBORHOOD MEETING

ATTENDANCE—Sign-in Sheet

NAME	COMPANY	PHONE
Fred & Linda Wolk		352-317-0179
PETE MAASTRICHT	MAASTRICHT ENG, INC	239-362-1605

NETHHBORHOOD MEETING

Andres Boral

From: Alachua County Library District - Events & Room Reserve <ACLD-Events-HQ@EvancedEvents.com>
Sent: Tuesday, July 29, 2014 10:46 PM
To: Andres Boral
Subject: Automatic Room Reminder Notification

Andres Boral,

This is a reminder that you have the Meeting Room A at Alachua County Library District - Alachua reserved on Thursday, July 31, 2014 at 6:00 PM for Maaspricht Engineering.

Please contact the Library Branch directly if there are any issues regarding the reservation.

To cancel this reservation you may click the link below and enter your confirmation number HWJMBAN

Cancel your reservation: http://host7.evanced.info/alachua/evanced/requestcancel.asp

Thank You.

MAASTRICHT ENGINEERING

NEIGHBORHOOD MEETING SUMMARY

SUBJECT: COMMERCIAL DEVELOPMENT – AUTOZONE AND FAMILY DOLLAR

DATE: THURSDAY, JULY 31, 2014

TIME: 6:00 PM

PLACE: Alachua County Library – Meeting Room A: 14913 NW 140 STREET ALACHUA, FL 32615

CONTACT: ANDRES BORAL AT (239)-362-1605

ATTENDEES: Fred & Linda Walker

Maastricht Engineering, Inc. hold a meeting to discuss the project located at 15483 NW US Hwy 441 in the City of Alachua. The project consists of an AutoZone retail store and a Family Dollar retail store in 2.08 acres zoned Commercial Intensive (C.I.) The permitted uses in this district include retail stores as proposed. The attendees, both Fred & Linda Walker, had no objections to the proposed development. Their attendance was for informational purposes only.

The Gainesville Sun

STATE OF FLORIDA
COUNTY OF ALACHUA

Published Daily and Sunday
Gainesville, Florida

Before the undersigned authority personally appeared Eryka Rollins

Who on oath says that he/she is Advertising Account Manager of THE GAINESVILLE SUN, a daily newspaper published in Gainesville in Alachua County, Florida, that the attached copy of advertisement, being a Public Notice

In the matter of A Project Located at 15483 NW US HWY 441 in the City of Alachua

In the City of Alachua Public Library, was published in said newspaper in the issue of, July 21, 2014.

Affiant further says that THE GAINESVILLE SUN is a newspaper published at Gainesville, in said Alachua County, Florida and that the said newspaper has heretofore been continuously published in said Alachua County, each day, and has been entered as second class mail matter at the post office in Gainesville, in said Alachua County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he has neither paid nor promised any person, firm or corporation any discount for publication in said newspaper.

Sworn to and subscribed before me this 22nd Day of July A.D. 2014.

(Seal) Notary Public

ERNEST BLAKE, III
Commission # EE 99362
My Commission Expires 06-01-2015
Bonded Through
Western Surety Company

second-straight week with $86 million, according to studio estimates Sunday. The acclaimed sequel to 2011's reboot of the chimp franchise has now made $139 million domestically in two weeks.

Its closest completion over the weekend was the home-invasion horror thriller "The Purge: Anarchy." The low-budget sequel to last year's surprise hit, "The Purge," opened with $28.4 million.

'Idol' contestants lacking?

BEVERLY HILLS, Calif. — "American Idol" needs to find contestants the audience cares about.

That's a criticism Fox's chairman and CEO, Peter Rice, admitted to journalists Sunday at the Television Critics Association summer press tour.

"We haven't found in the last two years a group of kids who've captured the imagination of the public," he said.

Rice went on to say that "American Idol," launching its 14th season next year, is "aging gracefully."

This year's season finale of "American Idol" was its lowest rated yet.

NOTABLE DEATH

Centenarian jazz musician LIONEL FERBOS died Saturday at his home in New Orleans, according to a family friend. He was 103. Ferbos was believed to be the oldest working jazz musician, performing regularly until last year.

BIRTHDAYS

Movie director Norman Jewison is 88.

Former Attorney General Janet Reno is 76.

Singer Yusuf Islam (formerly Cat Stevens) is 66.

Actor Robin Williams is 63.

Comedian Jon Lovitz is 57.

Actor Josh Hartnett is 36.

Christian singer Brandon Heath is 36.

Saturday, was adept at drama and action. But he was best known for his low-key, wisecracking style, especially on his hit TV series "Maverick" and "The Rockford Files."

His quick-witted avoidance of conflict offered a refreshing new take on the American hero, contrasting with the blunt toughness of John Wayne and the laconic trigger-happiness of Clint Eastwood.

There's no better display of Garner's everyman majesty than the NBC series "The Rockford Files" (1974-80). He played an L.A. private eye and wrongly jailed ex-con who seemed to rarely get paid, or even get thanks, for the cases he took, while helplessly getting drawn into trouble to help someone who was neither a client nor maybe even a friend. He lived in a trailer with an answering machine that, in the show's opening titles, always took a message that had nothing to do with a paying job, but more often was a complaining call from a cranky creditor.

Through it all, Jim Rockford, however down on his luck, persevered hopefully. He wore the veneer of a cynic, but led with his heart. Putting all that on screen was Garner's magic.

Well into his 70s, the handsome Oklahoman remained active in both TV and film. In 2002, he was Sandra Bullock's father in the film "Divine Secrets of the Ya-Ya Sisterhood." The following year, he joined the cast of "8 Simple Rules ... For Dating My Teenage Daughter," playing the grandfather on the sitcom — and helping ground it with his reassuring presence — after star John Ritter, who played the father, died during the show's second season.

When Garner received the Screen Actors Guild's lifetime achievement award in 2005, he quipped, "I'm not at all sure how I got here." But in his 2011 memoir, "The Garner Files," he provided some amusing and enlightening clues, including his penchant for bluntly expressed opinions and a practice for decking people who said something nasty to his face — including an obnoxious fan and an abusive stepmother.

THE ASSOCIATED PRESS

Actor James Garner was best known for his low-key, wisecracking style.

And when he suspected his studio of cheating him on residual payments — a not-unheard-of condition in Hollywood — Garner spoke out loudly and fought back with lawsuits. They all deserved it, Garner declared in his book.

It was in 1957 when the ABC network, desperate to compete on ratings-rich Sunday night, scheduled "Maverick" against CBS' powerhouse "The Ed Sullivan Show" and NBC's "The Steve Allen Show." To everyone's surprise — except Garner's — "Maverick" soon outpolled them both.

At a time when the networks were awash with hard-eyed, traditional Western heroes, Bret Maverick provided a breath of fresh air. With his sardonic tone and his eagerness to talk his way out of a squabble rather than pull out his six-shooter, the con-artist Westerner seemed to scoff at the genre's values.

After a couple of years, Garner felt the series was losing its creative edge, and he found a legal loophole to escape his contract in 1960.

His first film after "Maverick" established him as a movie actor. It was "The Children's Hour," William Wyler's remake of Lillian Hellman's lesbian drama that co-starred Audrey Hepburn and Shirley MacLaine.

He followed in a successful comedy with Kim Novak, "Boys Night Out," and then established his box-office appeal with the 1963 blockbuster war drama "The Great Escape" and two smash comedies with Doris Day — "The Thrill of It All" and "Move Over Darling."

Throughout his film career, Garner demonstrated his versatility in comedies ("The Art of Love," "A Man Could Get Killed"), suspense ("36 Hours," "Marlowe"), and Westerns ("Duel at Diablo," "Support Your Local Gunfighter").

Among his notable TV movies: "Barbarians at the Gate" (as tycoon F. Ross Johnson), "Breathing Lessons," "The Promise," "My Name Is Bill W." and "The Streets of Laredo."

What's the most annoying pest in your yard?

AVAILABLE RESPONSES:
Fire ants; squirrels; my neighbor's dog; moles; snakes; rats or mice; other

HEY SPORTS FANATICS: Check out Page 2C for Sports Topic and answer online at **www.gatorsports.com.**

YESTERDAY'S RESPONSE
What should be America's next major space mission

HUMANS ON MARS: 198
COLONIZING THE MOON: 221
EXPLORING EUROPA: 16
DEEP SPACE EXPLORATION: 149
OTHER: 22
AMERICA'S FOCUS SHOULD BE STRICTLY ON EARTH ISSUES: 228

Results are strictly surveys of those who choose to participate and are not valid statistical samples.

LOTTERY

Sunday, July 20

CASH 3
Early drawing: 3-4-2
Night drawing: 3-9-3

PLAY 4
Early drawing: 9-7-2-9
Night drawing: 5-7-0-8

FANTASY 5
8-10-14-28-33

PREVIOUS RESULTS

LOTTO — Saturday
6-12-13-34-41-43
Match Payoff ..... Winners
6-of-6 $0 ..... 7-Rollover
5-of-6 $7,110 16
4-of-6 $69 1,532
3-of-6 $5 28,758

FANTASY 5 — Saturday
9-10-11-24-30
Match Payoff ..... Winners
5-of-5 $62,536.92 4
4-of-5 $98 411
3-of-5 $9.50 11,843

The Gainesville Sun

The Gainesville Sun (USPS 0163-4325) is published daily by The Gainesville Sun, 2700 SW 13th St., Gainesville, FL 32608. Periodicals postage paid at Gainesville, FL 32608.

POSTMASTER: Send address changes to The Gainesville Sun, 2700 SW 13th Street, Gainesville, Florida 32608.

Commitment to accuracy

The Gainesville Sun promptly corrects errors of fact appearing in its news columns. If you believe we have made an error, call the news department at (352) 374-5093 days or 374-5044 at night. If you have a question or comment about coverage, write to Douglas Ray, Executive editor, 2700 SW 13th Street, Gainesville, Florida, 32608 Email, doug.ray@gainesville.com Or call (352) 374-5035.

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Classified Legal ads ..... 374-5017 or fax 338-3131

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Contact retail advertising ... 374-5058
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By fax 338-3128
Greg Hamilton, Local news editor 338-3102
Jeff Tudeen, Night local news editor 374-5044
SPORTS: Arnold Feliciano, Sports editor 374-5055
Call-in results 374-5074
BUSINESS: Anthony Clark, Business editor 338-3171
NATION/WORLD: Paul Jenkins, News editor 338-3110
FEATURES: Lillian Guevara-Castro, Assistant local news editor/lifestyles 374-5023
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COMPREHENSIVE PLAN CONCURRENCY ANALYSIS

TO: Ms. Kathy Winburn, AICP

FROM: Peter M. Maastricht, P.E.

DATE: October 26, 2014

RE: Alachua Family Dollar & AutoZone (AutoZone Analysis)

This site plan application is for both a ±8,398 sq. ft. Family Dollar retail store, and a ±6,816 sq. ft. AutoZone retail store. The two facilities will include retail sales, warehouse storage areas, and supporting uses consistent with the Commercial (COMM) Future Land Use classification and the Commercial Intensive (CI) zoning district. This Comprehensive Plan Concurrency Analysis is for the **AutoZone** and is submitted in accordance with the City of Alachua Site Plan requirements identified in Land Development Regulations Sec. 2.4.9.

This analysis will describe how the proposed site plan application is consistent with and complies with specific Comprehensive Plan Goals, Objectives, and Policies. The Comprehensive Plan language is provided in plain text and the consistency statement is provide in **bold** text.

Goal One: Economic Development

The City of Alachua has a unique business climate. The City is home to Corporations, technology incubators, local businesses, and start-up companies. The US 441 corridor is beginning to develop into a "corporate corridor" with businesses, such as Sabine and JA Webster, and corporate campuses such as the Progress Corporate Park and Alachua Professional Center. Alachua desires to continue to be a home to innovative businesses that want to be partners with the community.

The proposed AutoZone will offer economic growth consistent with the City of Alachua's vision to provide new, aesthetically pleasing infrastructure along the corporate corridor.

Vision 2020

Future Land Use Element

Objective 1.3: Commercial:

The City of Alachua shall establish three commercial districts: Community Commercial, Commercial, and Central Business District. These districts shall provide a broad range of retail sales and services, as well as office uses, in order to provide for the availability of goods and services, both to the citizens of Alachua and to the citizens of the North Central Florida region.

The proposed AutoZone is consistent with the Commercial land use category being located along the U.S. HWY 441 corridor in the City of Alachua, zoned Commercial Intensive (CI).

Policy 1.3.b: Commercial:

The Commercial land use category is established to provide for general commercial uses, as well as more intense commercial and highway commercial uses. This is the land use category in which large-scale, regional commercial uses may locate.

The proposed AutoZone will provide the neighboring communities automotive consumer retail goods and services.

Policy 1.3.d: The City shall develop performance standards for commercial development in order to address the following:

1. Integration of vehicular and non-vehicular access into the site and access management features of site in terms of driveway cuts and cross access between adjacent sites, including use of frontage roads and/or shared access;

The existing access road will continue to provide vehicular and non-vehicular access into the proposed AutoZone site, as well as other sites within the vicinity. Sidewalks will also be provided throughout the site to link the buildings, parking areas, and open space.

2. Buffering from adjacent existing/potential uses;

A minimum 7.5' wide Type B landscape buffer will be provided along the West boundary of the site. A minimum 7.5' wide Type B landscape buffer will be provided along the South boundary adjacent to U.S. HWY 441. A minimum 7.5' wide Type B landscape buffer will be provided along the North boundary. A minimum 15' wide Type D landscape buffer will be provided along the East boundary. All required buffers are shown on the landscaping plan.

3. Open space provisions and balance of proportion between gross floor area and site size;

Approximately 52.0% of the site will be pervious area / open space. This far exceeds the 10% open space requirement in FLUE Policy 2.5.1 of the City's Comprehensive Plan. The proposed ±6,816 sq. ft. AutoZone is located on a ±1.16 acre site, which is equal to a FAR of 0.135. This is below the 0.75 F.A.R. allowed for Commercial sites less than 5 acres yet greater than 1 acre.

4. Adequacy of pervious surface area in terms of drainage requirements;

Storm water management will be provided on site. The proposed AutoZone site's drainage will be conveyed to the FDOT right-of-way located along U.S. HWY 441.

5. Placement of signage;

Minimal signage will be placed along the entrance road at the access points to identify the facility. Signage will be consistent with LDR Sec. 6.5.

6. Adequacy of site lighting and potential impacts of lighting upon the surrounding area. Lighting should be designed to minimize impacts and preserve the ambiance and quality of the nighttime sky by reducing light trespass and light pollution on adjacent properties by utilizing lighting at an appropriate intensity, direction and times to ensure light is not overused or impacting areas where it is not intended;

Three adjacent properties are within the Commercial (COMM) category and Commercial Intensive (CI) zoning district. The zoning to the East of the site is RSF-3, therefore site lighting fixtures will not exceed 15 feet. Furthermore, site lighting will not exceed five (5) foot-candles within the parking lot.

7. Safety of on-site circulation patterns (patron, employee and delivery vehicles, trucks), including parking layout and drive aisles, and points of conflict;

As shown on the site plan, two (2) access points are provided. An internal sidewalk system has been designed to provide access to the buildings from the parking areas. This sidewalk system will also greatly reduce points of conflict between automobile traffic and pedestrians.

8. Landscaping, as it relates to the requirements of the Comprehensive Plan and Land Development Regulations;

A landscape plan is included as part of the site plan set. As shown on the landscape plan, 52.0% of the site has been landscaped, which includes both perimeter and interior landscaping. A minimum 7.5' wide Type B landscape buffer will be provided along the West boundary of the site. A minimum 7.5' wide Type B landscape buffer will be provided along the South boundary adjacent to U.S. HWY 441. A minimum 7.5' wide Type B landscape buffer will be provided along the North boundary. A minimum 15' wide Type D landscape buffer will be provided along the East boundary. All required buffers are shown on the landscaping plan.

9. Unique features and resources which may constrain site development, such as soils, existing vegetation and historic significance; and

There are no delineated wetlands or FEMA floodplain on site that will constrain development. The site is generally clear of trees and vegetation. A portion of the existing vegetation will not interfere with the development areas and will likely be maintained as part of the required buffer. The site consists of two (2) different soil types, all of which are Hydro Group soils and will not propose any limitation on development. A soils map is provided as a part of the site development plans.

10. Performance based zoning requirements that may serve as a substitute for or accompany land development regulations in attaining acceptable site design.

The proposed use type is "Automobile Parts Sales" Table 4.1-1 of the City of Alachua Land Development Regulations indicate there are no performance based zoning requirements for the proposed use."

11. Commercial uses shall be limited to an intensity of less than or equal to .50 floor area ratio for

parcels 10 acres or greater, .50 floor area ratio for parcels less than 10 acres by 5 acres or greater, .75 floor area ratio for parcels less than 5 acres but greater than 1 acre, and 1.0 floor area ratio for parcels 1 acre or less.

The proposed ±6,816 sq. ft. AutoZone is located on a ±1.16 acre site, which is equal to an FAR of 0.135. This is below the 0.75 F.A.R. allowed for Commercial sites less than 5 acres yet greater than 1 acre.

Objective 2.4: Landscaping and Tree Protection Standards:

Policy 2.4.a: Landscaping: General – The City shall require landscaping plans to be submitted with each nonresidential and multiple family residential site plan. The minimum landscaped area shall be 30% of the development site. Landscaping designs shall incorporate principles of xeriscaping, where feasible. The City shall develop a plant pallet to assist in the landscape design. Landscape plans shall include a mixture of perimeter and internal landscaping.

A landscape plan is included as part of the site plan set. As shown on the landscape plan, 52.0% of the site has been landscaped, which includes both perimeter and interior landscaping. A minimum 7.5' wide Type B landscape buffer will be provided along the West boundary of the site. A minimum 7.5' wide Type B landscape buffer will be provided along the South boundary adjacent to U.S. HWY 441. A minimum 7.5' wide Type B landscape buffer will be provided along the North boundary. A minimum 15' wide Type D landscape buffer will be provided along the East boundary. All required buffers are shown on the landscaping plan.

Policy 2.4.2: Landscaping: Buffering – A buffer consists of horizontal space (land) and vertical elements (plants, berms, fences, walls) that physically separate and visually screen adjacent land uses that may not be fully compatible. The City shall establish buffer yard requirements that are based on the nature of the adjacent uses and the desired result of the buffer.

A landscape plan is included as part of the site plan set. As shown on the landscape plan, 52.0% of the site has been landscaped, which includes both perimeter and interior landscaping. A minimum 7.5' wide Type B landscape buffer will be provided along the West boundary of the site. A minimum 7.5' wide Type B landscape buffer will be provided along the South boundary adjacent to U.S. HWY 441. A minimum 7.5' wide Type B landscape buffer will be provided along the North boundary. A minimum 15' wide Type D landscape buffer will be provided along the East boundary. All required buffers are shown on the landscaping plan.

Objective 2.5: Open Space Standards:

Policy 2.5.a: There shall be a minimum of 10% percent open space required. The City shall establish incentives for the provision of open space beyond minimum requirements.

As shown on the site plan, 52.0% of the ±1.16 acre site is pervious area / open space.

Objective 4.1 Infill development:

Infill development shall be encouraged in order to protect the unique character of existing neighborhoods and commercial developments, provide for a safe urban environment, increase densities in a manner compatible with existing uses, provide open spaces, and restore or maintain economic vitality and cultural diversity.

The proposed AutoZone will be infill development demolishing existing, less modern, commercial structures. Building the facilities will improve the aesthetics and functionality by eliminating old infrastructure.

GOAL 5: Development Standards: The City shall include provisions through its comprehensive plan amendment process, development review process and in its land development regulations for development standards that address natural features and availability of facilities and services. These development standards will strive to protect natural resources and public facility resources while allowing for innovative and flexible development patterns.

Policy 5.1.a: Topography: The City shall protect the natural topography of the City, including steep and seepage slopes, by requiring new development to include techniques to minimize negative impacts on the natural terrain. An emphasis will be placed on retaining the natural function of seepage slopes during development. Additionally, retention of existing native vegetation will be encouraged as one method of protecting slopes.

The project site is generally sloped with minimal trees or vegetation. The highest portion of the site runs from the Northwest to the Northeast at an elevation of about 80 feet. The site decreases in elevation to the South towards U.S. HWY 441 right-of-way road side swale. Total elevation change is about 10 feet across the ±1.16 acre site. Any mature trees on-site located along the southern boundary will not be impacted by development.

Policy 5.1.b: Soils: The City shall ensure soil protection and intervention measures are included in the development review process.

The proposed project site is designed to incorporate silt fence and hay bales to ensure the integrity of both the lands and water quality, please see the erosion control plan included in the site design plan set.

Policy 5.1.c: Flood prone areas: The City shall require as part of the development review process the identification of FEMA flood zone areas. Where necessary, minimum flood elevations shall be surveyed and established. The City shall also require finished floor elevations on subdivision plats, site plans and building permit plans. The City shall establish standards for a limitation on filling in flood prone areas.

The proposed project site does not include any FEMA 100 year floodplain.

Policy 5.1.d: Wetlands: The City shall utilize statewide wetland delineation methodology in accordance with Florida Administrative Code (FAC) and regulations adopted by the FDEP and the Suwannee River Water Management District.

The proposed project site does not include any delineated wetlands.

Objective 5.2: Availability of facilities and services:
All new development shall be planned and constructed concurrently with the availability of facilities and services necessary for the development.

Policy 5.2.a: All new development shall meet level of service requirements for roadways, potable water and sanitary sewer, storm water, solid waste, and improved recreation in accordance with LOS standards adopted in the elements addressing these facilities.

A Concurrency Impact Analysis is included as part of this site plan application package which demonstrates that the proposed AutoZone meets the adopted LOS for roadways, potable water, sanitary sewer, and solid waste. A Grading and Drainage Plan is included as part of the development plan set. The proposed AutoZone site will convey treated storm water, at a discharge rate below predevelopment flows, to the road side swale within the FDOT right-of-way. This surface water management plan was designed to handle storm water for the entire site and is consistent with LOS standards provided in the City's Comprehensive Plan Community Facilities and Natural Groundwater Aquifer Recharge Element Policy 3.1.a, the Suwannee River Water Management District, and FDOT's standards and requirements. The non-residential development will not impact the City's recreational facilities.

GOAL 9: Water and Wastewater Service:
The City will ensure that new development within the corporate limits, where potable water and wastewater service are available, as defined in Policy 1.2.a and Policy 4.2.a of the Community Facilities and Natural Groundwater Aquifer Recharge Element of the Comprehensive Plan shall connect to the City of Alachua's potable water and wastewater system.

Policy 9.1: Any new development within Commercial and Industrial Land Uses within the corporate limits, where potable water and wastewater service are available, as Defined in Policy 1.2.a and Policy 4.2.a of the Community Facilities and Natural Groundwater Aquifer Recharge Element of the City of Alachua Comprehensive Plan, shall connect to the City of Alachua's potable water and wastewater system.

The proposed AutoZone will connect to the City of Alachua's centralized potable water and sanitary sewer systems.

Transportation Element
Objective 1.1: Level of Service
The City shall establish a safe, convenient and efficient level of service standard for all motorized and non-motorized transportation systems.

As calculated in the Concurrency Impact Analysis, the proposed AutoZone will generate approximately 481 new annual average daily trips (AADT) and will not cause the impacted segments of U.S. HWY 441 and SR 235 to operate below the adopted LOS D.

Policy 1.3.a: The City shall establish minimum and maximum parking standards in order to avoid excessive parking areas.

The proposed site plan includes 25 parking spaces for the ±6,816 sq. ft. AutoZone. This is not consistent with the City's LDR requirement of 1 space per 400 sq. ft. for Automotive Parts Sales. However, attached is a deviation request letter which would, if approved, allow for the additional four (4) needed spaces.

Policy 1.3.g: The City shall require spaces to accommodate persons with physical disabilities as required by the Americans with Disabilities Act.

A minimum of two (2) handicapped parking spaces will be provided, please refer to the site plan.

Community Facilities and Natural Groundwater Aquifer Recharge Element

Policy 1.1.d: The City hereby establishes the following level of service standards for sanitary sewer facilities:

Levels of Service:

A. Quality: Compliance with all applicable standards of the U.S. Environmental Protection Agency (EPA) and the Florida Department of Environmental Protection (FDEP).

B. Quantity: System-wide wastewater collection and treatment will be sufficient to provide a minimum of 250 gallons per day per equivalent residential unit (ERU) on an average annual basis. Plant expansion shall be planned in accordance with F.A.C. 62-600.405, or subsequent provision. This level of service standard shall be re-evaluated one year from the adoption date for the amended Plan.

C. System capacity: If the volume of existing use in addition to the volume of the committed use of the City's wastewater facility reaches 85% of the permitted capacity design, no further development orders for projects without reserved capacity will be issued until additional capacity becomes available or funds to increase facility capacity are committed in accordance with a development agreement.

Quality: The proposed AutoZone will comply with all applicable sanitary sewer quality standards of the U.S. Environmental Protection Agency (EPA) and the Florida Department of Environmental Protection.

Quantity: As calculated in the Concurrency Impact Analysis, the City's sanitary sewer system has the permitted capacity to meet the demands for the proposed facility. The impacts from the proposed site plan will not cause the City's potable water system to operate at a level below the adopted LOS in the comprehensive plan.

System Capacity: As calculated in the Concurrency Impact Analysis, the percentage of the City's potable water system that is being utilized will not exceed 85%. With the calculated impacts from the proposed site plan, the design capacity that will be utilized is 54.12%.

Objective 1.2:
Wastewater service will be made available to new development in a manner to promote compact urban growth, promoting development where wastewater service is available, and discouraging urban sprawl. For purposes of this objective, new development does not include remodeling of existing developments or additions of less than 33% to existing developments.

The proposed AutoZone will connect to the City of Alachua's centralized sanitary sewer system. As calculated in the Concurrency Impact Analysis the percentage of the City's sanitary sewer system that is being utilized will not exceed 85%. With the calculated impacts from the proposed site plan, the design capacity that will be utilized is 54.12%.

Policy 2.1.a: The City hereby establishes the following level of service standards for solid waste disposal facilities:

FACILITY TYPE LEVEL OF SERVICE STANDARD Solid Waste Landfill .73 tons per capita per year

As shown in the Concurrency Impact Analysis, the New River Solid Waste Facility has a 50-year capacity. The estimated impacts from the proposed site plan application will not cause the City's solid waste system to operate at a level below the adopted LOS in the comprehensive plan.

Policy 3.1.a: The City hereby establishes the following water quantity and quality level of service standards for drainage facilities:

LEVEL OF SERVICE STANDARD

For all projects which fall totally within a stream, or open Lake Watershed, detention systems must be installed such that the peak rate of post-development runoff will not exceed the peak-rate of pre-development runoff for storm events up through and including either:

1. A design storm with a 10-year, 24-hour rainfall depth with Soil Conservation Service type II distribution falling on average antecedent moisture conditions for projects serving exclusively agricultural, forest, conservation, or recreational uses; or

2. A design storm with 100-year critical duration rainfall depth for projects serving any land use other than agricultural, cilvicultural, conservation, or recreational uses.

3. The LOS standard for water quality treatment shall be treatment for the "first one inch" of runoff, and compliance with the design and performance standards established in Chapter 40C-42.025, FAC, and 42.035, FAC to ensure that the receiving water quality standards of Chapter 62.302.500, FAC are met and to ensure their water quality is not degraded below the minimum conditions necessary to maintain their classifications as established in Chapter 62-302, FAC. These standards shall apply to all new development and redevelopment and any exemptions, exceptions or thresholds in these citations are not applicable. Infill residential development within improved residential areas or subdivisions existing prior to the adoption of this comprehensive plan must ensure that its post-development stormwater runoff will not contribute pollutants which will

cause the runoff from the entire improved area or subdivision to degrade receiving water bodies and their water quality as stated above.

A Grading and Drainage Plan is included as part of the development plan set. The retail site will convey treated storm water, at a discharge rate below predevelopment flows, to the road side swale within the FDOT right-of-way. This surface water management plan was designed to handle storm water for the entire site and is consistent with LOS standards provided in the City's Comprehensive Plan Community Facilities and Natural Groundwater Aquifer Recharge Element Policy 3.1.a, the Suwannee River Water Management District, and FDOT's standards and requirements.

Objective 4.1:
Achieve and maintain acceptable levels of service for potable water quantity and quality.

Policy 4.2.a: New urban development will only occur within areas where potable water services are available concurrent with development. For purposes of this policy, new development does not included remodeling of existing developments or additions of less than 33% to existing developments.

The proposed AutoZone will connect to the City of Alachua's centralized potable water system.

<u>Conservation and Open Space Element</u>
OBJECTIVE 1.10: Wetlands The City shall protect and preserve wetland values and functions from adverse, human caused, physical and hydrologic disturbances.

There are no identified wetlands on the proposed project site.

<u>Economic Element</u>
GOAL 1: To emphasize economic principles consistent with the City's Vision that support the prosperity of the community and enhance its quality of life.

The proposed AutoZone site will provide economic growth consistent with the City of Alachua's goal to provide local neighborhoods with convenient products and services.

COMPREHENSIVE PLAN CONCURRENCY ANALYSIS

TO: Ms. Kathy Winburn, AICP

FROM: Peter M. Maastricht, P.E.

DATE: October 26, 2014

RE: Alachua Family Dollar & AutoZone (Family Dollar Analysis)

This site plan application is for both a ±8,398 sq. ft. Family Dollar retail store, and a ±6,816 sq. ft. AutoZone retail store. The two facilities will include retail sales, warehouse storage areas, and supporting uses consistent with the Commercial (COMM) Future Land Use classification and the Commercial Intensive (CI) zoning district. This Comprehensive Plan Concurrency Analysis is for the proposed **Family Dollar** and is submitted in accordance with the City of Alachua Site Plan requirements identified in Land Development Regulations Sec. 2.4.9.

This analysis will describe how the proposed site plan application is consistent with and complies with specific Comprehensive Plan Goals, Objectives, and Policies. The Comprehensive Plan language is provided in plain text and the consistency statement is provide in **bold** text.

Goal One: Economic Development

The City of Alachua has a unique business climate. The City is home to Corporations, technology incubators, local businesses, and start-up companies. The US 441 corridor is beginning to develop into a "corporate corridor" with businesses, such as Sabine and JA Webster, and corporate campuses such as the Progress Corporate Park and Alachua Professional Center. Alachua desires to continue to be a home to innovative businesses that want to be partners with the community.

The proposed Family Dollar will offer economic growth consistent with the City of Alachua's vision to provide new, aesthetically pleasing infrastructure along the corporate corridor.

Vision 2020

Future Land Use Element
Objective 1.3: Commercial:

The City of Alachua shall establish three commercial districts: Community Commercial, Commercial, and Central Business District. These districts shall provide a broad range of retail sales and services, as well as office uses, in order to provide for the availability of goods and services, both to the citizens of Alachua and to the citizens of the North Central Florida region.

The proposed Family Dollar is consistent with the Commercial land use category being located along the U.S. HWY 441 corridor in the City of Alachua, zoned Commercial Intensive (CI).

Policy 1.3.b: Commercial:

The Commercial land use category is established to provide for general commercial uses, as well as more intense commercial and highway commercial uses. This is the land use category in which large-scale, regional commercial uses may locate.

The proposed Family Dollar will provide the neighboring communities general consumer retail goods and services at discount prices.

Policy 1.3.d: The City shall develop performance standards for commercial development in order to address the following:

1. Integration of vehicular and non-vehicular access into the site and access management features of site in terms of driveway cuts and cross access between adjacent sites, including use of frontage roads and/or shared access;

The existing access road will continue to provide vehicular and non-vehicular access into the proposed Family Dollar as well as other sites within the vicinity. Sidewalks will also be provided throughout the site to link the buildings, parking areas, and open space.

2. Buffering from adjacent existing/potential uses;

A minimum 7.5' wide Type B landscape buffer will be provided along the West boundary of the site. A minimum 7.5' wide Type B landscape buffer will be provided along the South boundary adjacent to U.S. HWY 441. A minimum 7.5' wide Type B landscape buffer will be provided along the North boundary. A minimum 7.5' wide Type B landscape buffer will be provided along the East boundary. All required buffers are shown on the landscaping plan.

3. Open space provisions and balance of proportion between gross floor area and site size;

Approximately 30.0% of the site will be pervious area / open space. This exceeds the 10% open space requirement in FLUE Policy 2.5.1 of the City's Comprehensive Plan. The proposed ±8,398 sq. ft. Family Dollar is located on a ±0.92 acre site, which is equal to a FAR of 0.21. This is below the 1.0 F.A.R. allowed for Commercial sites less than 1 acre.

4. Adequacy of pervious surface area in terms of drainage requirements;

Storm water management will be provided on site. The Family Dollar site's drainage will be conveyed to the East parcel, by dry detention and culverts, and ultimately discharge into the FDOT right-of-way located along U.S. HWY 441.

5. Placement of signage;

Minimal signage will be placed along the entrance road at the access points to identify the facility. Signage will be consistent with LDR Sec. 6.5.

6. Adequacy of site lighting and potential impacts of lighting upon the surrounding area. Lighting should be designed to minimize impacts and preserve the ambiance and quality of the nighttime sky by reducing light trespass and light pollution on adjacent properties by utilizing lighting at an appropriate intensity, direction and times to ensure light is not overused or impacting areas where it is not intended;

All adjacent properties are within the Commercial (COMM) category and Commercial Intensive (CI) zoning district. Therefore, site lighting will not negatively impact neighboring parcels.

7. Safety of on-site circulation patterns (patron, employee and delivery vehicles, trucks), including parking layout and drive aisles, and points of conflict;

As shown on the site plan, two (2) access points are provided. An internal sidewalk system has been designed to provide access to the buildings from the parking areas. This sidewalk system will also greatly reduce points of conflict between automobile traffic and pedestrians.

8. Landscaping, as it relates to the requirements of the Comprehensive Plan and Land Development Regulations;

A landscape plan is included as part of the site plan set. As shown on the landscape plan, 30.0% of the site has been landscaped, which includes both perimeter and interior landscaping. A minimum 7.5' wide Type B landscape buffer will be provided along the West boundary of the site. A minimum 7.5' wide Type B landscape buffer will be provided along the South boundary adjacent to U.S. HWY 441. A minimum 7.5' wide Type B landscape buffer will be provided along the North boundary. A minimum 7.5' wide Type B landscape buffer will be provided along the East boundary. All required buffers are shown on the landscaping plan.

9. Unique features and resources which may constrain site development, such as soils, existing vegetation and historic significance; and

There are no delineated wetlands or FEMA floodplain on site that will constrain development. The site is generally clear of trees and vegetation. A portion of the existing vegetation will not interfere with the development areas and will likely be maintained as part of the required buffer. The site consists of two (2) different soil types, all of which are Hydro Group soils and will not propose any limitation on development. A soils map is provided as a part of the site development plans.

10. Performance based zoning requirements that may serve as a substitute for or accompany land development regulations in attaining acceptable site design.

The proposed use type is "Department or Discount Store." Table 4.1-1 of the City of Alachua Land Development Regulations indicate there are no performance based zoning requirements for Department or Discount Stores that contain less than 20,000 square feet of floor area.

11. Commercial uses shall be limited to an intensity of less than or equal to .50 floor area ratio for parcels 10 acres or greater, .50 floor area ratio for parcels less than 10 acres by 5 acres or greater, .75 floor area ratio for parcels less than 5 acres but greater than 1 acre, and 1.0 floor area ratio for parcels 1 acre or less.

The proposed ±8,398 sq. ft. Family Dollar is located on a ±0.92 acre site, which is equal to an FAR of 0.21. This is below the 1.0 F.A.R. allowed for Commercial sites less than 1 acre.

Objective 2.4: Landscaping and Tree Protection Standards:

Policy 2.4.a: Landscaping: General – The City shall require landscaping plans to be submitted with each nonresidential and multiple family residential site plan. The minimum landscaped area shall be 30% of the development site. Landscaping designs shall incorporate principles of xeriscaping, where feasible. The City shall develop a plant pallet to assist in the landscape design. Landscape plans shall include a mixture of perimeter and internal landscaping.

A landscape plan is included as part of the site plan set. As shown on the landscape plan, 30.0% of the site has been landscaped, which includes both perimeter and interior landscaping. A minimum 7.5' wide Type B landscape buffer will be provided along the West boundary of the site. A minimum 7.5' wide Type B landscape buffer will be provided along the South boundary adjacent to U.S. HWY 441. A minimum 7.5' wide Type B landscape buffer will be provided along the North boundary. A minimum 7.5' wide Type B landscape buffer will be provided along the East boundary. All required buffers are shown on the landscaping plan.

Policy 2.4.2: Landscaping: Buffering – A buffer consists of horizontal space (land) and vertical elements (plants, berms, fences, walls) that physically separate and visually screen adjacent land uses that may not be fully compatible. The City shall establish buffer yard requirements that are based on the nature of the adjacent uses and the desired result of the buffer.

A landscape plan is included as part of the site plan set. As shown on the landscape plan, 30.0% of the site has been landscaped, which includes both perimeter and interior landscaping. A minimum 7.5' wide Type B landscape buffer will be provided along the West boundary of the site. A minimum 7.5' wide Type B landscape buffer will be provided along the South boundary adjacent to U.S. HWY 441. A minimum 7.5' wide Type B landscape buffer will be provided along the North boundary. A minimum 7.5' wide Type B landscape buffer will be provided along the East boundary. All required buffers are shown on the landscaping plan.

Objective 2.5: Open Space Standards:

Policy 2.5.a: There shall be a minimum of 10% percent open space required. The City shall establish incentives for the provision of open space beyond minimum requirements.

As shown on the site plan, 30.0% of the ±0.92 acre site is pervious area / open space.

Objective 4.1 Infill development:

Infill development shall be encouraged in order to protect the unique character of existing neighborhoods and commercial developments, provide for a safe urban environment, increase densities in a manner compatible with existing uses, provide open spaces, and restore or maintain economic vitality and cultural diversity.

The proposed Family Dollar will be infill development demolishing existing, less modern, commercial structures. Building the facilities will improve the aesthetics and functionality by eliminating old infrastructure.

GOAL 5: Development Standards: The City shall include provisions through its comprehensive plan amendment process, development review process and in its land development regulations for development standards that address natural features and availability of facilities and services. These development standards will strive to protect natural resources and public facility resources while allowing for innovative and flexible development patterns.

Policy 5.1.a: Topography: The City shall protect the natural topography of the City, including steep and seepage slopes, by requiring new development to include techniques to minimize negative impacts on the natural terrain. An emphasis will be placed on retaining the natural function of seepage slopes during development. Additionally, retention of existing native vegetation will be encouraged as one method of protecting slopes.

The project site is generally sloped with minimal trees or vegetation. The highest portion of the site runs from the Northwest to the Northeast at an elevation of about 80 feet. The site decreases in elevation to the South towards U.S. HWY 441 right-of-way road side swale. Total elevation change is about 10 feet across the ±0.92 acre site. Any mature trees on-site are located along the southern boundary will not be impacted by development.

Policy 5.1.b: Soils: The City shall ensure soil protection and intervention measures are included in the development review process.

The proposed project site is designed to incorporate silt fence and hay bales to ensure the integrity of both the lands and water quality, please see the erosion control plan included in the site design plan set.

Policy 5.1.c: Flood prone areas: The City shall require as part of the development review process the identification of FEMA flood zone areas. Where necessary, minimum flood elevations shall be surveyed and established. The City shall also require finished floor elevations on subdivision plats, site plans and building permit plans. The City shall establish standards for a limitation on filling in flood prone areas.

The proposed project site does not include any FEMA 100 year floodplain.

Policy 5.1.d: Wetlands: The City shall utilize statewide wetland delineation methodology in accordance with Florida Administrative Code (FAC) and regulations adopted by the FDEP and the Suwannee River

Water Management District.

The proposed project site does not include any delineated wetlands.

Objective 5.2: Availability of facilities and services:
All new development shall be planned and constructed concurrently with the availability of facilities and services necessary for the development.

Policy 5.2.a: All new development shall meet level of service requirements for roadways, potable water and sanitary sewer, storm water, solid waste, and improved recreation in accordance with LOS standards adopted in the elements addressing these facilities.

A Concurrency Impact Analysis is included as part of this site plan application package which demonstrates that the proposed Family Dollar site meets the adopted LOS for roadways, potable water, sanitary sewer, and solid waste. A Grading and Drainage Plan is included as part of the development plan set. The proposed Family Dollar site will convey storm water to the parcel East, routed by dry detention and culverts. Ultimately the water will discharge at rate below predevelopment flows, to the road side swale within the FDOT right-of-way. This surface water management plan was designed to handle storm water for the entire site and is consistent with LOS standards provided in the City's Comprehensive Plan Community Facilities and Natural Groundwater Aquifer Recharge Element Policy 3.1.a, the Suwannee River Water Management District, and FDOT's standards and requirements. The non-residential development will not impact the City's recreational facilities.

GOAL 9: Water and Wastewater Service:
The City will ensure that new development within the corporate limits, where potable water and wastewater service are available, as defined in Policy 1.2.a and Policy 4.2.a of the Community Facilities and Natural Groundwater Aquifer Recharge Element of the Comprehensive Plan shall connect to the City of Alachua's potable water and wastewater system.

Policy 9.1: Any new development within Commercial and Industrial Land Uses within the corporate limits, where potable water and wastewater service are available, as Defined in Policy 1.2.a and Policy 4.2.a of the Community Facilities and Natural Groundwater Aquifer Recharge Element of the City of Alachua Comprehensive Plan, shall connect to the City of Alachua's potable water and wastewater system.

The proposed Family Dollar will connect to the City of Alachua's centralized potable water and sanitary sewer systems.

Transportation Element
Objective 1.1: Level of Service
The City shall establish a safe, convenient and efficient level of service standard for all motorized and non-motorized transportation systems.

As calculated in the Concurrency Impact Analysis, the proposed Family Dollar will generate

approximately 481 new annual average daily trips (AADT) and will not cause the impacted segments of U.S. HWY 441 and SR 235 to operate below the adopted LOS D.

Policy 1.3.a: The City shall establish minimum and maximum parking standards in order to avoid excessive parking areas.

The proposed site plan includes 28 parking spaces for the 8,398 sq. ft. Family Dollar. This is consistent with the City's LDR requirement of 1 space per 305 sq. ft. for commercial retail use.

Policy 1.3.g: The City shall require spaces to accommodate persons with physical disabilities as required by the Americans with Disabilities Act.

A minimum of two (2) handicapped parking spaces will be provided, please refer to the site plan.

Community Facilities and Natural Groundwater Aquifer Recharge Element
Policy 1.1.d: The City hereby establishes the following level of service standards for sanitary sewer facilities:

Levels of Service:

A. Quality: Compliance with all applicable standards of the U.S. Environmental Protection Agency (EPA) and the Florida Department of Environmental Protection (FDEP).

B. Quantity: System-wide wastewater collection and treatment will be sufficient to provide a minimum of 250 gallons per day per equivalent residential unit (ERU) on an average annual basis. Plant expansion shall be planned in accordance with F.A.C. 62-600.405, or subsequent provision. This level of service standard shall be re-evaluated one year from the adoption date for the amended Plan.

C. System capacity: If the volume of existing use in addition to the volume of the committed use of the City's wastewater facility reaches 85% of the permitted capacity design, no further development orders for projects without reserved capacity will be issued until additional capacity becomes available or funds to increase facility capacity are committed in accordance with a development agreement.

Quality: The proposed Family Dollar will comply with all applicable sanitary sewer quality standards of the U.S. Environmental Protection Agency (EPA) and the Florida Department of Environmental Protection.

Quantity: As calculated in the Concurrency Impact Analysis, the City's sanitary sewer system has the permitted capacity to meet the demands for the proposed facility. The impacts from the proposed site plan will not cause the City's potable water system to operate at a level below the adopted LOS in the comprehensive plan.

System Capacity: As calculated in the Concurrency Impact Analysis, the percentage of the City's potable water system that is being utilized will not exceed 85%. With the calculated impacts from the proposed

site plan, the design capacity that will be utilized is 54.12%.

Objective 1.2:
Wastewater service will be made available to new development in a manner to promote compact urban growth, promoting development where wastewater service is available, and discouraging urban sprawl. For purposes of this objective, new development does not include remodeling of existing developments or additions of less than 33% to existing developments.

The proposed Family Dollar will connect to the City of Alachua's centralized sanitary sewer system. As calculated in the Concurrency Impact Analysis the percentage of the City's sanitary sewer system that is being utilized will not exceed 85%. With the calculated impacts from the proposed site plan, the design capacity that will be utilized is 54.12%.

Policy 2.1.a: The City hereby establishes the following level of service standards for solid waste disposal facilities:

FACILITY TYPE LEVEL OF SERVICE STANDARD Solid Waste Landfill .73 tons per capita per year

As shown in the Concurrency Impact Analysis, the New River Solid Waste Facility has a 50-year capacity. The estimated impacts from the proposed site plan application will not cause the City's solid waste system to operate at a level below the adopted LOS in the comprehensive plan.

Policy 3.1.a: The City hereby establishes the following water quantity and quality level of service standards for drainage facilities:

LEVEL OF SERVICE STANDARD

For all projects which fall totally within a stream, or open Lake Watershed, detention systems must be installed such that the peak rate of post-development runoff will not exceed the peak-rate of pre-development runoff for storm events up through and including either:

1. A design storm with a 10-year, 24-hour rainfall depth with Soil Conservation Service type II distribution falling on average antecedent moisture conditions for projects serving exclusively agricultural, forest, conservation, or recreational uses; or

2. A design storm with 100-year critical duration rainfall depth for projects serving any land use other than agricultural, cilvicultural, conservation, or recreational uses.

3. The LOS standard for water quality treatment shall be treatment for the "first one inch" of runoff, and compliance with the design and performance standards established in Chapter 40C-42.025, FAC, and 42.035, FAC to ensure that the receiving water quality standards of Chapter 62.302.500, FAC are met and to ensure their water quality is not degraded below the minimum conditions necessary to maintain their classifications as established in Chapter 62-302, FAC. These standards shall apply to all new development and redevelopment and any exemptions, exceptions or thresholds in these citations are not applicable. Infill residential development

within improved residential areas or subdivisions existing prior to the adoption of this comprehensive plan must ensure that its post-development stormwater runoff will not contribute pollutants which will cause the runoff from the entire improved area or subdivision to degrade receiving water bodies and their water quality as stated above.

A Grading and Drainage Plan is included as part of the development plan set. The proposed Family Dollar site will convey storm water to the parcel East, routed by dry detention and culverts. Ultimately the water will discharge at rate below predevelopment flows, to the road side swale within the FDOT right-of-way. This surface water management plan was designed to handle storm water for the entire site and is consistent with LOS standards provided in the City's Comprehensive Plan Community Facilities and Natural Groundwater Aquifer Recharge Element Policy 3.1.a, the Suwannee River Water Management District, and FDOT's standards and requirements.

Objective 4.1:
Achieve and maintain acceptable levels of service for potable water quantity and quality.

Policy 4.2.a: New urban development will only occur within areas where potable water services are available concurrent with development. For purposes of this policy, new development does not included remodeling of existing developments or additions of less than 33% to existing developments.

The proposed Family Dollar will connect to the City of Alachua's centralized potable water system.

<u>Conservation and Open Space Element</u>
OBJECTIVE 1.10: Wetlands The City shall protect and preserve wetland values and functions from adverse, human caused, physical and hydrologic disturbances.

There are no identified wetlands on the proposed project site.

<u>Economic Element</u>
GOAL 1: To emphasize economic principles consistent with the City's Vision that support the prosperity of the community and enhance its quality of life.

The proposed Family Dollar site will provide economic growth consistent with the City of Alachua's goal to provide local neighborhoods with convenient products and services at discount prices.

MAASTRICHT ENGINEERING

CONCURRENCY IMPACT ANALYSIS

TO: Ms. Kathy Winburn, AICP

FROM: Peter M. Maastricht, P.E.

DATE: October 26, 2014

RE: Alachua Family Dollar & AutoZone

This site plan application is for both a ±8,398 sq. ft. non-residential facility, and a ±6,816 sq. ft. non-residential facility. The two facilities will include retail sales, warehouse storage areas, and supporting uses consistent with the Commercial (COMM) Future Land Use classification and the Commercial Intensive (CI) zoning district. This Concurrency Impact Analysis is submitted in accordance with the City of Alachua Land Development Regulations (LDR) Sec. 2.4.14. Certificate of Concurrency Compliance.

This analysis will calculate impacts to the City's roads, potable water facilities, sanitary sewer facilities, and solid waste facilities. A Grading and Drainage Plan is included as part of the development plan set. The site will convey storm water to the FDOT Right-of-Way and is consistent with the City's adopted LOS, FDOT and SRWMD requirements. The proposed non-residential use will not impact the City's parks and recreation facilities.

TRANSPORTATION IMPACT ANALYSIS

Table 1: Trip Generation Calculations

Land Use[1] (ITE)	KSF	Daily		AM Peak		PM Peak	
		Rate[1]	Trips	Rate[1]	Trips	Rate[1]	Trips
Free Standing Discount Store (ITE 815)	8.398	57.24	481	5.48	46	5.57	47
Automobile Parts Sales (ITE 843)	6.816	61.91	422	4.41	30	6.44	44
Total	**15.214**	**-**	**903**	**-**	**76**	**-**	**91**

1. *Source: ITE Trip Generation 9th Edition*

Table 2: Comprehensive Plan Roadway Segments[1]

Segment Number	Segment Description	Lanes	Functional Classification	Area Type	LOS
3/4	U.S. HWY 441 (NW 126th to SR 235)	4/D	Principal Arterial	Urban Trans	D
5	U.S. HWY 441 (SR 235 to NCL of Alachua)	4/D	Principal Arterial	Urban Trans	D
8	SR 235 (CR 2054 to U.S. HWY 441)	2/U	Major Collector	Comm	D
9	SR 235 (U.S. HWY 441 to NCL of Alachua)	2/U	Major Collector	Comm	D

1. *Impacted roadway segments identified on Figure 1. Projected Vehicle Trip Distribution*

Table 3: Projected Impacts on Roadway Segments

Traffic System Category	U.S. HWY 441 (NW 126th to SR 235) AADT / PM Peak		
Maximum Service Volume[1]	35,500	/	3,200
Existing Traffic[1]	17,495	/	1,662
Reserved Trips[1]	853	/	107
Available Capacity	17,152	/	1,431
Projected Trip Generation[2]	181	/	19
Residual Capacity with Application Approval	16,971	/	1,412

1. *Source: Florida Department of Transportation, District Two (published August 2014.)*
2. *The Projected Distribution percentage for this roadway segment is estimated to be 20%.*

Table 4: Projected Impacts on Roadway Segments

Traffic System Category	U.S. HWY 441 (SR 235 to NCL of Alachua) AADT / PM Peak		
Maximum Service Volume[1]	35,500	/	3,200
Existing Traffic[1]	23,000	/	2,185
Reserved Trips[1]	3,701	/	315
Available Capacity	8,799	/	700
Projected Trip Generation[2]	903	/	91
Residual Capacity with Application Approval	7,896	/	609

1. *Source: City of Alachua, August 2014, Development Monitoring Report*
2. *The Projected Distribution percentage for this roadway segment is estimated to be 100%.*

Table 5: Projected Impacts on Roadway Segments

Traffic System Category	SR 235 (235/241 Intersection to U.S. HWY 441) AADT / PM Peak		
Maximum Service Volume[1]	13,300	/	1,200
Existing Traffic[1]	9,495	/	902
Reserved Trips[1]	185	/	16
Available Capacity	3,620	/	282
Projected Trip Generation[2]	271	/	27
Residual Capacity with Application Approval	3,349	/	255

1. *Source: City of Alachua, August 2014, Development Monitoring Report*
2. *The Projected Distribution percentage for this roadway segment is estimated to be 30%.*

Table 6: Projected Impacts on Roadway Segments

Traffic System Category	SR 235 (U.S. HWY 441 to NCL of Alachua) AADT / PM Peak		
Maximum Service Volume[1]	13,300	/	1,200
Existing Traffic[1]	6,653	/	632
Reserved Trips[1]	110	/	10
Available Capacity	6,537	/	558
Projected Trip Generation[2]	271	/	27
Residual Capacity with Application Approval	6,266	/	531

1. *Source: City of Alachua, August 2014, Development Monitoring Report*
2. *The Projected Distribution percentage for this roadway segment is estimated to be 30%*

Figure 1: Projected Vehicle Trip Distribution

Conclusion:

As shown in Table 1, the proposed retail facilities will generate approximately 903 new Average Annual Daily Trips (AADT). Consistent with LDR Sec. 2.4.14(H)(2), a ½-mile radius was used to determine the roadway segments included in this analysis. As shown on Figure 1, there are (4) affected comprehensive plan roadway segments, Segment 3/4 - U.S. HWY 441 (NW 126th to SR 235), Segment 5 - U.S. HWY 441 (SR 235 to NCL), Segment 8 - SR 235 (235/241 Intersection to U.S. HWY 441), and Segment 9 - SR 235 (U.S. HWY 441 to NCL of Alachua). The division of traffic relating to the CR 235 segments and the Easterly, segment 3/4, of U.S. HWY 441 was evaluated based on the density of developed lands to the North and South of HWY 441 and East of SR 235. The estimated traffic utilizing SR 235 is roughly 30% resulting from the North, 30% from the South, 20% traveling to U.S. HWY 441 using side streets, and the remaining 20% traveling from U.S. HWY 441, East of SR 235.

Segment 3/4 - U.S. HWY 441 (NW 126th to SR 235) currently has an available capacity of 17,152 AADT. The estimated 181 new AADT resulting from the proposed retail facilities ***will not*** exceed this roadway's capacity to operate the designated Level of service (LOS) D.

Segment 5 - U.S. HWY 441 (SR 235 to NCL of Alachua) currently has an available capacity of 8,799 AADT. The estimated 903 new AADT resulting from the proposed retail facilities ***will not*** exceed this roadway's capacity to operate the designated Level of service (LOS) D.

Segment 8 - SR 235 (235/241 Intersection to U.S. HWY 441) currently has an available capacity of 3,620 AADT. The estimated 271 new AADT resulting from the proposed retail facilities ***will not*** exceed this roadway's capacity to operate the designated Level of service (LOS) D.

SR 235 (U.S. HWY 441 to NCL of Alachua) currently has an available capacity of 6,537 AADT. The estimated 271 new AADT resulting from the proposed retail facilities ***will not*** exceed this roadway's capacity to operate the designated Level of service (LOS) D. Therefore, the proposed site plan will not negatively impact the City's transportation facilities and designated LOS.

PUBLIC FACILITIES IMPACT ANALYSIS

Table 4: Projected Potable Water Impact

System Category	Gallons Per Day
Current Permitted Capacity[1]	2,300,000
Less actual Potable Water Flows[1]	1,140,000
Reserved Capacity[1]	95,193
Residual Capacity[1] Percentage of Permitted Design Capacity Utilized[1]	1,064,807 53.70%
Projected Potable Water Demand from Proposed Project[2] (15,214 Total Sq. Ft. * 0.1 gpd/Sq. Ft.) = 1522gpd + (26 employee-8h shifts * 15 gpd/employee-8h shift) = 390 gpd	1,912
Residual Capacity after Proposed Project	**1,062,895**

1. Source: City of Alachua, August 2014, Development Monitoring Report
2. Calculated Using F.A.C. 64E-6

Conclusion:

Quality: The proposed retail facilities will comply with all applicable potable water quality standards of the U.S. Environmental Protection Agency (EPA) and the Florida Department of Environmental Protection.

Quantity: As calculated in Table 4, the City's potable water system has the permitted capacity to meet the demands for the proposed facility. The impacts from the proposed site plan will not cause the City's potable water system to operate at a level below the adopted LOS in the comprehensive plan.

System Capacity: As calculated in Table 4, the percentage of the City's potable water system that is being utilized will not exceed 85%. With the calculated impacts from the proposed site plan, the design capacity that will be utilized is 53.79%.

Table 5: Projected Sanitary Sewer Impact

System Category	Gallons Per Day
Treatment Plant Current Permitted Capacity[1]	1,230,000
Less Actual Treatment Plant Flows[1]	595,000
Reserved Capacity[1]	68,743
Residual Capacity[1]	566,257
Percentage of Permitted Design Capacity Utilized[1]	53.96%
Projected Sanitary Sewer Demand from Proposed Project[2]	1,912
Residual Capacity After Proposed Project	**564,345**

1. Source: City of Alachua, August 2014, Development Monitoring Report
2. Calculated Using F.A.C. 64E-6.008

Conclusion:

Quality: The proposed retail facilities will comply with all applicable sanitary sewer quality standards of the U.S. Environmental Protection Agency (EPA) and the Florida Department of Environmental Protection.

Quantity: As calculated in Table 5, the City's sanitary sewer system has the permitted capacity to meet the demands for the proposed facilities. The impacts from the proposed site plan will not cause the City's potable water system to operate at a level below the adopted LOS in the comprehensive plan.

System Capacity: As calculated in Table 5, the percentage of the City's sanitary sewer system that is being utilized will not exceed 85%. With the calculated impacts from the proposed site plan, the design capacity that will be utilized is 54.12%.

Table 6: Projected Solid Waste Impact

System Category	LBs Per Day	Tons Per Year
Existing Demand[1]	37,200	6,789
Reserved Capacity[1]	3,678.22	671.28
New River Solid Waste Facility Capacity[1]	50 years	
Solid Waste Generated By Proposed Project[2] (20 lbs. / 1,000 ft^2 / day) x 15,214 ft^2) x 365) / 2000]	304.28	55.53

1. Source: City of Alachua, August 2014, Development Monitoring Report
2. Source: Lee County Solid Waste System

Conclusion:
As shown in Table 6, the New River Solid Waste Facility has a 50-year capacity. The estimated impacts from the proposed site plan application will not cause the City's solid waste system to operate at a level below the adopted LOS in the comprehensive plan.

Storm Water:
A Grading and Drainage Plan is included as part of the development plan set.

Mr. Antoinette Endelicato
5562 NW 93rd Avenue
Gainesville, FL 32653

Mr. Craig Parenteau
FL Department of
Environmental Protection
4801 Camp Ranch Road
Gainesville, FL 32641

Ms. Sharricka Dawndrey Hunt-Walker
PO BOX 545
Alachua, FL 32616

Mr. Dan Rhine
288 Turkey Creek
Alachua, FL 32615

Ms. Laura Williams
12416 NW 148th Avenue
Alachua, FL 32615

Ms. Lula Mae Garrison
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Mr. Bill Atwater
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Ms. Jeannette Hinsdale
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Mr. Frederick James
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Mr. Tom Gorman
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Ms. Lynn Coullias
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Alachua, FL 32615

CALHOUN, CALHOUN &
CALHOUN Life Estate
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Richard Gorman
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Ms. Lynda Coon
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CITY OF ALACHUA
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Ms. Peggy Arnold
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City Manager
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Gainesville ,FL 32608

Mr. David Forest
23 Turkey Creek
Alachua, FL 32615

Ms. Sharricka Hunter Walker
14327 NW 155th place
Alachua,FL 32616

ALACHUA TOWN CENTRE
ASSOCIATION INC
13505 NW 88TH Place
Alachua, FL 32615

Mr. John Tingue
333 Turkey Creek
Alachua, FL 32615

Antioch Baptist Church
PO BOX 814
Alachua, FL 32616

HWY 441 PARTNERS LLC
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Newberry, FL 32669

TCMOA
President
1000 Turkey Creek
Alachua, FL 32615

Ms. Terri Ann Jacobs
PO BOX 32616
Alachua, FL 32616

Alachua Development CO LLC
16469 Bridlewood Cir
Delray Beach, FL 33445

Linda Dixon, AICP
Assistant Director Planning
PO Box 115050
Gainesville, FL 32611

Ms. Lula M. Wise
8020 West 3rd Street
St. Augustine, FL 32084

LEWIS & LEWIS TRUSTEES
26260 US Highway 129
Branford, FL 32008

Andres Boral

From: Doyle, Adam <Adam.Doyle@dot.state.fl.us>
Sent: Friday, July 25, 2014 3:00 PM
To: Andres Boral; Matt Mikovic
Cc: Lee, Nathan; Tyler, David; Dycus, Douglas; Peter Maastricht
Subject: RE: Driveway Connection Permit Application Checklist

Ok, I will set up the meeting for 3:30p on 7/31 here at our office (seem address below). Please let me know if anything changes.

Adam E. Doyle, P.E.
FDOT Gainesville Operations
5301 NE 39th Avenue
Gainesville FL, 32609
adam.doyle@dot.state.fl.us
(352) 381-4308

From: Andres Boral [mailto:andres@maastricht-eng.com]
Sent: Friday, July 25, 2014 1:26 PM
To: Doyle, Adam; Matt Mikovic
Cc: Lee, Nathan; Tyler, David; Dycus, Douglas; Peter Maastricht
Subject: RE: Driveway Connection Permit Application Checklist

Adam,

3:30 will work. Thanks.

Andres Boral, E.I.
MAASTRICHT ENGINEERING, INC.
12800 University Drive, Suite 402
Fort Myers, FL 33907
andres@maastricht-eng.com
P 239.362.1605
F 239.267.8704
C 239.692.0509
www.maastricht-eng.com

From: Doyle, Adam [mailto:Adam.Doyle@dot.state.fl.us]
Sent: Friday, July 25, 2014 1:01 PM
To: Andres Boral; Matt Mikovic
Cc: Lee, Nathan; Tyler, David; Dycus, Douglas; Peter Maastricht
Subject: RE: Driveway Connection Permit Application Checklist

SIGN IN SHEET

Family Dollar/Autozone - Alachua

7/31/2014

Gainesville Maintenance Office

Please print clearly

Name	Telephone #	Company/Title	e-mail address
Adam Doyle	352-381-4308	FDOT Gainesville Permits	adam.doyle@dot.state.fl.us
DAVID TYLER	386-961-7842	FDOT TRAFFIC OPS	DAVID.TYLER@DOT.STATE.FL.US
NATHAN LEE	386961-7490	FDOT PERMITS	NATHAN.LEE@DOT.STATE.FL.US
Douglas Dycus	386961 7312	FDOT DRAINAGE	DOUGLAS.DYCUS@DOT.STATE.FL.US
PETE MAASTRICHT	(239) 362-1605	~~FDOT~~ MAASTRICHT ENG/PRES	petem@maastricht-eng.com

Andres Boral

From: Simpson, Daniel <dcs@srwmd.org>
Sent: Wednesday, September 10, 2014 9:44 AM
To: Andres Boral
Subject: RE: Alachua Family Dollar & AutoZone

Andres,

Here are the rules for 10-2 Self Certification.

Part of your self-certification, is certifying that you meet the following criteria.

Florida Statute 403.814(12):
(12) A general permit is granted for the construction, alteration, and maintenance of a stormwater management system serving a total project area of up to 10 acres. When the stormwater management system is designed, operated, and maintained in accordance with applicable rules adopted pursuant to part IV of chapter 373, there is a rebuttable presumption that the discharge for such system will comply with state water quality standards. The construction of such a system may proceed without any further agency action by the department or water management district if, within 30 days after construction begins, an electronic self-certification is submitted to the department or water management district that certifies the proposed system was designed by a Florida registered professional to meet the following requirements:
(a) The total project area involves less than 10 acres and less than 2 acres of impervious surface;
(b) No activities will impact wetlands or other surface waters;
(c) No activities are conducted in, on, or over wetlands or other surface waters;
(d) Drainage facilities will not include pipes having diameters greater than 24 inches, or the hydraulic equivalent, and will not use pumps in any manner;
(e) The project is not part of a larger common plan, development, or sale; and
(f) The project does not:
1. Cause adverse water quantity or flooding impacts to receiving water and adjacent lands;
2. Cause adverse impacts to existing surface water storage and conveyance capabilities;
3. Cause a violation of state water quality standards; or
4. Cause an adverse impact to the maintenance of surface or ground water levels or surface water flows established pursuant to s. 373.042 or a work of the district established pursuant to s. 373.086.

Daniel Simpson
Engineer II
Resource Management
Suwannee River Water Management District
9225 CR 49, Live Oak, FL 32060
386.362.1001
800.226.1066 (FL Toll Free)
www.mysuwanneeriver.com
Let us know how we're doing: Contact Us

From: Andres Boral [mailto:andres@maastricht-eng.com]
Sent: Tuesday, September 09, 2014 12:00 PM

MAASTRICHT ENGINEERING

October 15, 2014

Traci Cain
City Manager
City of Alachua
15100 N.W. 142nd Terrace
Alachua, Florida 32616

PROJECT: **FAMILY DOLLAR & AUTOZONE**
15535 & 15483 NW U.S. Highway 441
City of Alachua, Florida 32615

SUBJECT: Deviation Letter for Additional Parking **(AutoZone)**

Dear Ms. Cain:

As discussed with your staff in recent meetings, an AutoZone is being proposed within the 15000 block of US Highway 441 in the City of Alachua. This store will provide new commercial business along the US 441 Commercial Corridor, new employment opportunities, and will increase the City's tax base. As with all projects, there are some constraints that we hope to work with the City in order to proceed with this project. Specifically, there are restrictions related to the City's parking standards, which I will review in this letter.

Article 6, of the City Land Development Regulations, provides the minimum and maximum parking standards for proposed development by specific use category. Discussions with City Staff, whom have indicated that the City defines the proposed AutoZone as "Automotive Parts Sales". This categorization would limit the maximum number of parking spaces for the proposed 6,816 square foot AutoZone to 17 spaces (1 space per 400 square feet). Additionally, Sec. 6.1.4(B)(5)(a) of the LDC does permit 125% of the maximum total, which results in the permitted maximum number of parking spaces to be 21.

However, Sec. 6.1.4(B)(5)(b) of the City's LDC states that "the maximum number of allowable parking spaces may be adjusted by the LDR Administrator if the applicant provides written information demonstrating the proposed use would not be economically viable without such adjustment." The owner and operator of the AutoZone respectfully request that the LDR Administrator agree that restricting the proposed facilities to 21 spaces, would impact the economic viability for the project. Information provided by AutoZone (explained below) supports this case.

After analyzing data from other AutoZone stores in Florida, there is a clear pattern regarding the number of parking spaces needed to adequately serve this facility. Specifically, AutoZone has an average store front of +/-6,800 square feet. For these store fronts, the average number of parking spaces provided per store is 25 spaces, which amounts to an average parking ratio of 1 space per 272 square feet. In addition, at any given time, there can be up to 18 customers inside of an AutoZone (Please see attached report provided by AutoZone). In order to adequately provide parking for customers and employees during peak times, a minimum of 25 spaces is required.

As you can see, there is a discrepancy between the average number of parking spaces for existing AutoZone stores in Florida (25) versus what is allowed by the standard parking requirements for "Automotive Parts Sales" (21). This reduction of 19% would prove to be a significant economic hardship on the project and in the opinion of AutoZone, does not make the project economically viable. There is a direct correlation between number of parking spaces provided for a store and store sales. In short, the greater amount of parking, the greater amount of store sales. Conversely, revenues greatly decrease when less parking is provided. When analyzing existing examples, the average amount of sales per parking space is $846.15 / space / week. Therefore, when considering that the average AutoZone store has 25 parking spaces and the City LDC maximum allowed is 21, the reduction of 4 parking spaces

(below statewide average) amounts to a loss in revenue of approximately $3,384.60 per week and approximately $176,000 Per year. The projected sales for an average store is approximately $1,100,000 annually. Providing only 21 parking spaces will reduce the projected sales to $924,000 which would cause this particular store to fall under the 15% IRR projection which makes this project not economically viable for AutoZone.

These figures indicate that there would be a deficiency, in parking, if the City used the standard parking calculator. Therefore, hindering the economic viability for the said retail facility. Based on these facts, we respectfully request that the LDR Administrator utilize the powers outlined in Sec. 6.1.4(6)(b) and allow for an increase of the maximum number of permitted spaces for this project, from the permitted 21 spaces by 19% to the proposed amount of 25. This rationale is supported by the data provided by AutoZone (parking and financial comparisons) and is consistent with previous determinations by the LDR Administrator.

As always, I greatly appreciate your time and consideration in this matter, and look forward to this project being constructed within the City of Alachua. If you have any questions, please let me know.

Sincerely,
MAASTRICHT ENGINEERING, INC.

Peter M. Maastricht, P.E.
Florida License # 58680
President

AVERAGE CUSTOMERS & AZO'S IN
AN AVERAGE $1.6 MILLION STORE
DURING EVERY HOUR OF EVERY WEEK.
SATURDAY

DAY	TIME	TOTAL CUSTOMERS IN GIVEN HOUR	TOTAL AZO'S IN GIVEN HOUR	TOTAL PERSONS IN A STORE IN GIVEN HOUR	TOTAL PERSONS IN A STORE IN ANY GIVEN TIM
SATURDAY					
	08:00	26	4	30	8
	09:00	42	6	48	13
	10:00	51	8	59	16
	11:00	56	9	65	18
	12:00	55	8	63	17
	13:00	53	8	61	16
	14:00	51	8	59	16
	15:00	49	7	56	15
	16:00	45	6	51	13
	17:00	40	5	45	11
	18:00	36	5	41	11
	19:00	30	4	34	9
	20:00	24	3	27	7
	21:00	9	3	12	4

The average customer spends 10 minutes in our store.

To find the # of people in a store at any given time, take the number of customers, multiply it by 10 and divide by 60 to put this into customers in any given minute. Add this number to total AZO's to get the final number.

E.G. 46 customers * 10 = 460
460 / 60 = 7.67 custs/minute
7.67 + 7 AZO's = 14.67 or 15 persons are in our store during any given minute this hour.

US 441 FD & AZ

Job Number: 14-110

Project Location:

Alachua County

15483 & 15535 NW US HWY. 441

Alachua, Florida 32615

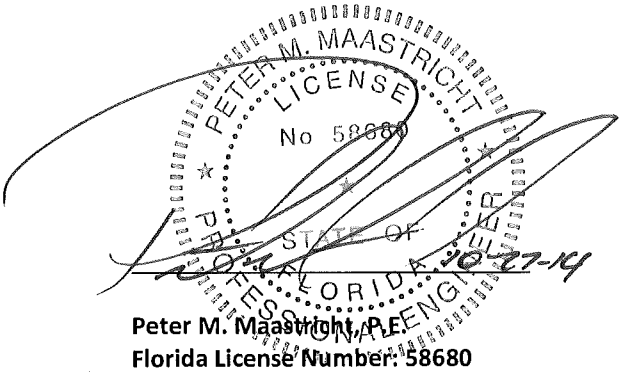
FIRE FLOW CALCULATIONS

10 - 17 - 14

Prepared by:
Peter M. Maastricht, P.E.

of

MAASTRICHT ENGINEERING, INC.
12800 University Drive Ste. 402
Fort Myers, FL 33907
Phone: (239) 362-1605
Fax: (239) 313-7179



Peter M. Maastricht, P.E.
Florida License Number: 58680

Proposed Facilities

The project consists of two retail buildings and supporting infrastructure. The first building is a Family Dollar with a total square footage of 8,398 SF and construction type V-B (NFPA220 V (000)). The second building is an AutoZone with a total square footage of 6,816 SF and construction type V-B (NFPA220 V (000)). For a 8,398 SF building with type V-B (NFPA220 V (000)) construction, the required fire flow is 2,500 GPM for a 2 hr. flow duration per the NFPA Minimum Required Fire Flow table below. For a 6,815 SF building with type V-B (NFPA220 V (000)) construction, the required fire flow is 2,250 GPM for a 2 hr. flow duration per the NFPA Minimum Required Fire Flow table below. The available flow at the hydrant located on the Southeast corner of the property (see attached location exhibit) is a total of 9245 GPM at 20 psi (see fire flow test results dated 8-25-14). The available flow is greater than the required fire flow for each of the proposed buildings, therefore the buildings will not be protected with a fire sprinkler system.

Fire Flow Table

Fire Area ft² (×0.0929 for m²)					Fire Flow gpm² (× 3.785 for L/min)	Flow Duration (hours)
I(443),I(332), II(222)[1]	II(111), III(211)[1]	IV(2HH), V(111)[1]	II(000), III(200)[1]	V(000)[1]		
0–22,700	0–12,700	0–8,200	0–5,900	0–3,600	1,500	2
22,701–30,200	12,701–17,000	8,201–10,900	5,901–7,900	3,601–4,800	1,750	
30,201–38,700	17,001–21,800	10,901–12,900	7,901–9,800	4,801–6,200	2,000	
38,701–48,300	21,801–24,200	12,901–17,400	9,801–12,600	6,201–7,700	2,250	
48,301–59,000	24,201–33,200	17,401–21,300	12,601–15,400	7,701–9,400	2,500	
59,001–70,900	33,201–39,700	21,301–25,500	15,401–18,400	9,401–11,300	2,750	
70,901–83,700	39,701–47,100	25,501–30,100	18,401–21,800	11,301–13,400	3,000	3
83,701–97,700	47,101–54,900	30,101–35,200	21,801–25,900	13,401–15,600	3,250	
97,701–112,700	54,901–63,400	35,201–40,600	25,901–29,300	15,601–18,000	3,500	
112,701–128,700	63,401–72,400	40,601–46,400	29,301–33,500	18,001–20,600	3,750	
128,701–145,900	72,401–82,100	46,401–52,500	33,501–37,900	20,601–23,300	4,000	4
145,901–164,200	82,101–92,400	52,501–59,100	37,901–42,700	23,301–26,300	4,250	
164,201–183,400	92,401–103,100	59,101–66,000	42,701–47,700	26,301–29,300	4,500	
183,401–203,700	103,101–114,600	66,001–73,300	47,701–53,000	29,301–32,600	4,750	
203,701–225,200	114,601–126,700	73,301–81,100	53,001–58,600	32,601–36,000	5,000	
225,201–247,700	126,701–139,400	81,101–89,200	58,601–65,400	36,001–39,600	5,250	
247,701–271,200	139,401–152,600	89,201–97,700	65,401–70,600	39,601–43,400	5,500	
271,201–295,900	152,601–166,500	97,701–106,500	70,601–77,000	43,401–47,400	5,750	
295,901–Greater	166,501–Greater	106,501–115,800	77,001–83,700	47,401–51,500	6,000	
295,901–Greater	166,501–Greater	115,801–125,500	83,701–90,600	51,501–55,700	6,250	
295,901–Greater	166,501–Greater	125,501–135,500	90,601–97,900	55,701–60,200	6,500	
295,901–Greater	166,501–Greater	135,501–145,800	97,901–106,800	60,201–64,800	6,750	
295,901–Greater	166,501–Greater	145,801–156,700	106,801–113,200	64,801–69,600	7,000	
295,901–Greater	166,501–Greater	156,701–167,900	113,201–121,300	69,601–74,600	7,250	
295,901–Greater	166,501–Greater	167,901–179,400	121,301–129,600	74,601–79,800	7,500	
295,901–Greater	166,501–Greater	179,401–191,400	129,601–138,300	79,801–85,100	7,750	
295,901–Greater	166,501–Greater	191,401–Greater	128,301–Greater	85,101–Greater	8,000	

[1] Types of construction are based on NFPA 220.

Fire Flow Test Report

W.W. GAY FIRE & INTEGRATED SYSTEMS, INC.
522 STOCKTON STREET • JACKSONVILLE, FL 32204 • PHONE 904-387-7973 • WWW.WWGFP.COM

FIRE HYDRANT FLOW TEST DATA

Company: Maastrict Engineering

Address: 15315 US Hwy 441, Alachua FL

Contact:
Name/Title: Andres Boral
Phone #: 239-362-1605

Hydrant Location:
(#1) Residual Hydrant: In front of 15315 US Hwy 441
Hydrant Location:
(#2) Flowed Hydrant: At US Hwy 441 & NW 144th Street

Testing:
Year: 2014 **Date:** 8/25/2014
Technician: Richard Bloom **Time:** 4:30 PM

RESULTS

(#1) Residual Hydrant:
Static: 84 PSI
Residual: 80 PSI

(#2) Flowed Hydrant / Hydrants:
Pito: 38 PSI (Flowing 2ea - 2 1/2" Outlets)

Flow: 2069 GPM

Hydrant Flow At 20 PSI: 9245 GPM

US 441 FAMILY DOLLAR & AUTOZONE
PIPE CALCULATIONS

RUN 1	PIPE			DRAINAGE BASIN				PIPE CONDITIONS							FLOW HYDRAULICS					HYDRAULIC GRADIENT		
	Pipe	From	To	FROM STR. AREA	i (Rainfall)	C (Runoff Coefficient)	Q (Incremental Flow)	LENGTH	DIA.	TYPE	n	P	A	Rh	Q (cum.)	V (Q/A)	FRICTION LOSS	ENT/EXIT LOSS	TOTAL HEAD	DOWNSTREAM ELEVATION	UPSTREAM ELEVATION	UPSTREAM INLET ELEVATION
Units				Acres	in/hr	Unitless	CFS	ft	in		Unitless	ft	sf	Unitless	CFS	FT/S	FT	FT	FT			
Formula							Q=CiA					P=πD	A=πr^2	Rh=A/P	Sum Q	Sum Q/A						
Site Conditions												Submerged Pipe										
		S-2	S-3	0.55	3.2	0.5	0.88													70.08	70.11	70.40
	P1							28	12.0	RCP	0.012	3.14	0.79	0.25	0.88	1.12	0.03	0.00	0.03			
		S-3	S-4	0.37	3.2	0.5	0.59													70.00	70.08	72.40
	P2							32	12.0	RCP	0.012	3.14	0.79	0.25	1.47	1.87	0.07	0.01	0.08			
		S4	POND	0	3.2	0.5	0.00														70.00	-

RUN 2	PIPE			DRAINAGE BASIN				PIPE CONDITIONS							FLOW HYDRAULICS					HYDRAULIC GRADIENT		
	Pipe	From	To	FROM STR. AREA	i (Rainfall)	C (Runoff Coefficient)	Q (Incremental Flow)	LENGTH	DIA.	TYPE	n	P	A	Rh	Q (cum.)	V (Q/A)	FRICTION LOSS	ENT/EXIT LOSS	TOTAL HEAD	DOWNSTREAM ELEVATION	UPSTREAM ELEVATION	UPSTREAM INLET ELEVATION
Units				Acres	in/hr	Unitless	CFS	ft	in		Unitless	ft	sf	Unitless	CFS	FT/S	FT	FT	FT			
Formula							Q=CiA					P=πD	A=πr^2	Rh=A/P	Sum Q	Sum Q/A						
Site Conditions												Submerged Pipe										
		S-6	S-5	1	3.2	0.5	1.60													66.75	66.77	67.75
	P3							80	18.0	RCP	0.012	4.71	1.77	0.38	1.60	0.91	0.02	0.00	0.02			
		S-5	SWALE	0	3.2	0.5	0.00														66.75	-

Peter M. Maastricht, P.E.
Florida License Number: 58680

10-15-14

PETER M. MAASTRICHT
No 58680
STATE OF FLORIDA
PROFESSIONAL ENGINEER

MAASTRICHT ENGINEERING

WATER METER SIZING STUDY

For

AutoZone at 15483 NW U.S Highway 441.

Pursuant to table 603.1, Minimum Water Service Size, of the Florida Plumbing Building Code, a one (1") inch water meter will adequately provide water service, ranging from 19-55 fixtures. The load factors were taken from Table 709.1 & 709.2, of the Florida Plumbing Building Code.

Below are the fixtures proposed within the architectural plans for the AutoZone located at 15483 NW U.S. Highway 441. The provided data is to demonstrate the completeness of this study.

DESCRIPTION	RESPECTIVE LOAD FACTORS	TOTAL
(2) Drinking Fountain (Coffee Machine)	½	1
(1) Service Sink (Break Room)	2	2
(3) Service Sink (Hose Bibs)	2	6
(2) Bathroom	5	10
		19 Total Fixture Load

MAASTRICHT ENGINEERING, INC.

10-15-14

PETER M. MAASTRICHT LICENSE No 58680 STATE OF FLORIDA PROFESSIONAL ENGINEER

Peter M. Maastricht, P.E.
Florida License Number: 58680
President

vided the water service pipe is sleeved to at least 5 feet (1524 mm) horizontally from the sewer pipe centerline on both sides of such crossing with pipe materials listed in Table 605.3, 702.2 or 702.3.

603.2.1 Water service near sources of pollution. Potable water service pipes shall not be located in, under or above cesspools, septic tanks, septic tank drainage fields or seepage pits (see Section 605.1 for soil and groundwater conditions).

TABLE 603.1
MINIMUM WATER SERVICE SIZE[a]

NO. OF FIXTURE UNITS FLUSH TANK WC[b]	DIAMETER OF WATER PIPE[c]	RECOMMENDED METER SIZE (Inches)[d]	APPROX. PRESSURE LOSS METER + 100' PIPE (psi)[e]	NO. OF FIXTURE UNITS FLUSH VALVE WC[b]
18	$^3/_4$	$^3/_4$	30	-
19-55	1 1	1 1	30 30	9
56-85	$1^1/_4$ $1^1/_4$	1 1	30 30	10-20
86-225	$1^1/_2$ $1^1/_2$	$1^1/_2$ $1^1/_2$	30 30	21-77
226-350	2 2	$1^1/_2$ $1^1/_2$	30 30	78-175
351-550	2 2	2 2	30 30	176-315
551-640	$2^1/_2$ $2^1/_2$	2 2	30 30	316-302
641-1340	3 3	3 3	22 22	- 303-940

a. Table is applicable for both copper and plastic water piping.
b. See Table 709.1 for fixture unit values.
c. Minimum water service shall be $^3/_4$ inch to control valve.
d. All secondary submeters and backflow assemblies shall be at least the same size as the line in which they are installed.
e. Table based on minimum water main pressure of 50 psi.

SECTION 604
DESIGN OF BUILDING WATER DISTRIBUTION SYSTEM

604.1 General. The design of the water distribution system shall conform to *accepted engineering practice*. Methods utilized to determine pipe sizes shall be *approved*. Table 603.1 shall be permitted to be used to size the water distribution system.

604.2 System interconnection. At the points of interconnection between the hot and cold water supply piping systems and the individual fixtures, appliances or devices, provisions shall be made to prevent flow between such piping systems.

604.3 Water distribution system design criteria. The water distribution system shall be designed, and pipe sizes shall be selected such that under conditions of peak demand, the capacities at the fixture supply pipe outlets shall not be less than shown in Table 604.3. The minimum flow rate and flow pressure provided to fixtures and appliances not listed in Table 604.3 shall be in accordance with the manufacturer's installation instructions.

TABLE 604.3
WATER DISTRIBUTION SYSTEM DESIGN CRITERIA
REQUIRED CAPACITY AT FIXTURE SUPPLY PIPE OUTLETS

FIXTURE SUPPLY OUTLET SERVING	FLOW RATE[a] (gpm)	FLOW PRESSURE (psi)
Bathtub, balanced-pressure, thermostatic or combination balanced-pressure/thermostatic mixing valve	4	20
Bidet, thermostatic mixing valve	2	20
Combination fixture	4	8
Dishwasher, residential	2.75	8
Drinking fountain	0.75	8
Laundry tray	4	8
Lavatory	2	8
Shower	3	8
Shower, balanced-pressure, thermostatic or combination balanced-pressure/thermostatic mixing valve	3	20
Sillcock, hose bibb	5	8
Sink, residential	2.5	8
Sink, service	3	8
Urinal, valve	12	25
Water closet, blowout, flushometer valve	25	45
Water closet, flushometer tank	1.6	20
Water closet, siphonic, flushometer valve	25	35
Water closet, tank, close coupled	3	20
Water closet, tank, one piece	5	20

For SI: 1 pound per square inch = 6.895 kPa
1 gallon per minute = 3.785 L/m.
a. For additional requirements for flow rates and quantities see Section 604.4.

604.4 Maximum flow and water consumption. The maximum water consumption flow rates and quantities for all plumbing fixtures and fixture fittings shall be in accordance with Table 604.4.

Exceptions:

1. Blowout design water closets having a maximum water consumption of $3^1/_2$ gallons (13 L) per flushing cycle.
2. Vegetable sprays.
3. Clinical sinks having a maximum water consumption of $4^1/_2$ gallons (17 L) per flushing cycle.
4. Service sinks.
5. Emergency showers.

TABLE 709.1
DRAINAGE FIXTURE UNITS FOR FIXTURES AND GROUPS

FIXTURE TYPE	DRAINAGE FIXTURE UNIT VALUE AS LOAD FACTORS	MINIMUM SIZE OF TRAP (inches)
Automatic clothes washers, commercial[a,g]	3	2
Automatic clothes washers, residential[g]	2	2
Bathroom group as defined in Section 202 (1.6 gpf water closet)[f]	5	—
Bathroom group as defined in Section 202 (water closet flushing greater than 1.6 gpf)[f]	6	
Bathtub[b] (with or without overhead shower or whirlpool attachments)	2	1½
Bidet	1	1¼
Combination sink and tray	2	1½
Dental lavatory	1	1¼
Dental unit or cuspidor	1	1¼
Dishwashing machine,[c] domestic	2	1½
Drinking fountain	½	1¼
Emergency floor drain	0	2
Floor drains[h]	2[h]	2
Floor sinks	Note h	2
Kitchen sink, domestic	2	1½
Kitchen sink, domestic with food waste grinder and/or dishwasher	2	1½
Laundry tray (1 or 2 compartments)	2	1½
Lavatory	1	1¼
Shower (based on the total flow rate through showerheads and body sprays) Flow rate: 5.7 gpm or less Greater than 5.7 gpm to 12.3 gpm Greater than 12.3 gpm to 25.8 gpm Greater than 25.8 gpm to 55.6 gpm	 2 3 5 6	 1½ 2 3 4
Service sink	2	1½
Sink	2	1½
Urinal	4	Note d
Urinal, 1 gallon per flush or less	2[e]	Note d
Urinal, nonwater supplied	½	Note d
Wash sink (circular or multiple) each set of faucets	2	1½
Water closet, flushometer tank, public or private	4[e]	Note d
Water closet, private (1.6 gpf)	3[e]	Note d
Water closet, private (flushing greater than 1.6 gpf)	4[e]	Note d
Water closet, public (1.6 gpf)	4[e]	Note d
Water closet, public (flushing greater than 1.6 gpf)	6[e]	Note d

For SI: 1 inch = 25.4 mm, 1 gallon = 3.785 L, gpf = gallon per flushing cycle, gpm = gallon per minute.

a. For traps larger than 3 inches, use Table 709.2.

b. A showerhead over a bathtub or whirlpool bathtub attachment does not increase the drainage fixture unit value.

c. See Sections 709.2 through 709.4.1 for methods of computing unit value of fixtures not listed in this table or for rating of devices with intermittent flows.

d. Trap size shall be consistent with the fixture outlet size.

e. For the purpose of computing loads on building drains and sewers, water closets and urinals shall not be rated at a lower drainage fixture unit unless the lower rate are confirmed by testing.

f. For fixtures added to a dwelling unit bathroom group, add the dfu value of those additional fixtures to the bathroom group fixture count.

g. See Section 406.3 for sizing requirements for fixture drain, branch drain, and drainage stack for an automatic clothes washer standpipe.

h. See Sections 709.4 and 709.4.1.

MAASTRICHT ENGINEERING

WATER METER SIZING STUDY

For

Family Dollar at 15535 NW U.S Highway 441.

Pursuant to table 603.1, Minimum Water Service Size, of the Florida Plumbing Building Code, a one (1") inch water meter will adequately provide water service, ranging from 19-55 fixtures. The load factors were taken from Table 709.1 & 709.2, of the Florida Plumbing Building Code.

Below are the fixtures proposed within the architectural plans for the Family Dollar located at 15535 NW U.S. Highway 441. The provided data is to demonstrate the completeness of this study.

DESCRIPTION	RESPECTIVE LOAD FACTORS	TOTAL
(2) Drinking Fountain	½	1
(3) Service Sink (Hose Bibs)	2	6
(1) Service Sink (Break Room)	2	2
(2) Bathroom	5	10

19 Total Fixture Load

MAASTRICHT ENGINEERING, INC.

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10-15-14

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vided the water service pipe is sleeved to at least 5 feet (1524 mm) horizontally from the sewer pipe centerline on both sides of such crossing with pipe materials listed in Table 605.3, 702.2 or 702.3.

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MINIMUM WATER SERVICE SIZE[a]

NO. OF FIXTURE UNITS FLUSH TANK WC[b]	DIAMETER OF WATER PIPE[c]	RECOMMENDED METER SIZE (inches)[d]	APPROX. PRESSURE LOSS METER + 100' PIPE (psi)[e]	NO. OF FIXTURE UNITS FLUSH VALVE WC[b]
18	$\frac{3}{4}$	$\frac{5}{8}$	30	-
19-55	1 1	1 1	30 30	9
56-85	$1\frac{1}{4}$ $1\frac{1}{4}$	1 1	30 30	10-20
86-226	$1\frac{1}{2}$ $1\frac{1}{2}$	$1\frac{1}{2}$ $1\frac{1}{2}$	30 30	21-77
226-350	2 2	$1\frac{1}{2}$ $1\frac{1}{2}$	30 30	78-175
351-550	2 2	2 2	30 30	176-315
551-640	$2\frac{1}{2}$ $2\frac{1}{2}$	2 2	30 30	316-392
641-1340	3 3	3 3	22 22	393-940

a. Table is applicable for both copper and plastic water piping.
b. See Table 709.1 for fixture unit values.
c. Minimum water service shall be $\frac{3}{4}$ inch to control valve.
d. All secondary submeters and backflow assemblies shall be at least the same size as the line in which they are installed.
e. Table based on minimum water main pressure of 50 psi.

SECTION 604
DESIGN OF BUILDING WATER DISTRIBUTION SYSTEM

604.1 General. The design of the water distribution system shall conform to *accepted engineering practice*. Methods utilized to determine pipe sizes shall be *approved*. Table 603.1 shall be permitted to be used to size the water distribution system.

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604.3 Water distribution system design criteria. The water distribution system shall be designed, and pipe sizes shall be selected such that under conditions of peak demand, the capacities at the fixture supply pipe outlets shall not be less than shown in Table 604.3. The minimum flow rate and flow pressure provided to fixtures and appliances not listed in Table 604.3 shall be in accordance with the manufacturer's installation instructions.

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Bathtub, balanced-pressure, thermostatic or combination balanced-pressure/thermostatic mixing valve	4	20
Bidet, thermostatic mixing valve	2	20
Combination fixture	4	8
Dishwasher, residential	2.75	8
Drinking fountain	0.75	8
Laundry tray	4	8
Lavatory	2	8
Shower	3	8
Shower, balanced-pressure, thermostatic or combination balanced-pressure/thermostatic mixing valve	3	20
Sillcock, hose bibb	5	8
Sink, residential	2.5	8
Sink, service	3	8
Urinal, valve	12	25
Water closet, blowout, flushometer valve	25	45
Water closet, flushometer tank	1.6	20
Water closet, siphonic, flushometer valve	25	35
Water closet, tank, close coupled	3	20
Water closet, tank, one piece	5	20

For SI: 1 pound per square inch = 6.895 kPa.
1 gallon per minute = 3.785 L/m.

a. For additional requirements for flow rates and quantities see Section 604.4.

604.4 Maximum flow and water consumption. The maximum water consumption flow rates and quantities for all plumbing fixtures and fixture fittings shall be in accordance with Table 604.4.

Exceptions:

1. Blowout design water closets having a maximum water consumption of $3\frac{1}{2}$ gallons (13 L) per flushing cycle.
2. Vegetable sprays.
3. Clinical sinks having a maximum water consumption of $4\frac{1}{2}$ gallons (17 L) per flushing cycle.
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5. Emergency showers.

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FIXTURE TYPE	DRAINAGE FIXTURE UNIT VALUE AS LOAD FACTORS	MINIMUM SIZE OF TRAP (inches)
Automatic clothes washers, commercial[a,g]	3	2
Automatic clothes washers, residential[g]	2	2
Bathroom group as defined in Section 202 (1.6 gpf water closet)[f]	5	—
Bathroom group as defined in Section 202 (water closet flushing greater than 1.6 gpf)[f]	6	
Bathtub[b] (with or without overhead shower or whirlpool attachments)	2	1½
Bidet	1	1¼
Combination sink and tray	2	1½
Dental lavatory	1	1¼
Dental unit or cuspidor	1	1¼
Dishwashing machine,[g] domestic	2	1½
Drinking fountain	½	1¼
Emergency floor drain	0	2
Floor drains[h]	2[h]	2
Floor sinks	Note h	2
Kitchen sink, domestic	2	1½
Kitchen sink, domestic with food waste grinder and/or dishwasher	2	1½
Laundry tray (1 or 2 compartments)	2	1½
Lavatory	1	1¼
Shower (based on the total flow rate through showerheads and body sprays) Flow rate: 5.7 gpm or less Greater than 5.7 gpm to 12.3 gpm Greater than 12.3 gpm to 25.8 gpm Greater than 25.8 gpm to 55.6 gpm	 2 3 5 6	 1½ 2 3 4
Service sink	2	1½
Sink	2	1½
Urinal	4	Note d
Urinal, 1 gallon per flush or less	2[e]	Note d
Urinal, nonwater supplied	½	Note d
Wash sink (circular or multiple) each set of faucets	2	1½
Water closet, flushometer tank, public or private	4[e]	Note d
Water closet, private (1.6 gpf)	3[e]	Note d
Water closet, private (flushing greater than 1.6 gpf)	4[e]	Note d
Water closet, public (1.6 gpf)	4[e]	Note d
Water closet, public (flushing greater than 1.6 gpf)	6[e]	Note d

For SI: 1 inch = 25.4 mm, 1 gallon = 3.785 L, gpf = gallon per flushing cycle, gpm = gallon per minute.

a. For traps larger than 3 inches, use Table 709.2.

b. A showerhead over a bathtub or whirlpool bathtub attachment does not increase the drainage fixture unit value.

c. See Sections 709.2 through 709.4.1 for methods of computing unit value of fixtures not listed in this table or for rating of devices with intermittent flows.

d. Trap size shall be consistent with the fixture outlet size.

e. For the purpose of computing loads on building drains and sewers, water closets and urinals shall not be rated at a lower drainage fixture unit unless the lower value are confirmed by testing.

f. For fixtures added to a dwelling unit bathroom group, add the dfu value of those additional fixtures to the bathroom group fixture count.

g. See Section 406.3 for sizing requirements for fixture drain, branch drain, and drainage stack for an automatic clothes washer standpipe.

h. See Sections 709.4 and 709.4.1.

US 441 FD & AZ

Job Number: 14-110

Project Location:

Alachua County

15483 & 15535 NW US HWY. 441

Alachua, Florida 32615

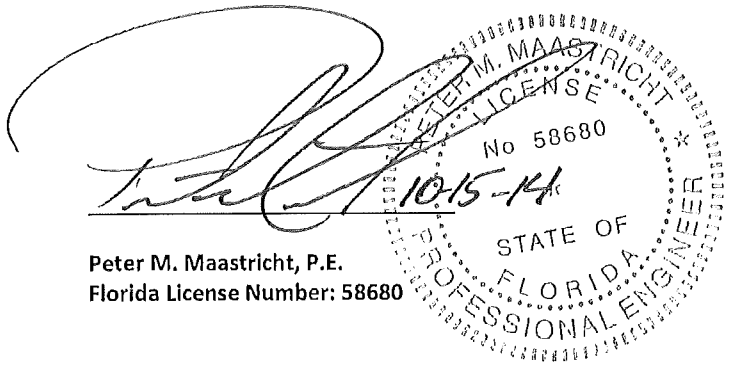
DRAINAGE CALCULATIONS

10 - 08 - 14

Prepared by:
Peter M. Maastricht, P.E.

of

MAASTRICHT ENGINEERING, INC.
12800 University Drive Ste. 402
Fort Myers, FL 33907
Phone: (239) 362-1605
Fax: (239) 313-7179



Peter M. Maastricht, P.E.
Florida License Number: 58680

Results Summary

Peak Stages

Please see ICPR results for post-development stages. The following table summarizes the peak stages for each storm event.

Storm Event (yr)	Peak Stage (ft)
2	71.472
5	71.785
10	72.113
25	72.313
50	72.496
100	72.685

Pre vs. Post Discharge

Please see pre-development discharge section for calculations on pre-development runoff. Please see ICPR results for post-development discharge. The following table compares the two runoffs to ensure the post-development runoff rate for each of the storms is less than the pre-development runoff rate.

Storm Event (yr)	POST Q (cfs)		PRE Q (cfs)
2	0.755	<	1.33
5	1.173	<	1.48
10	1.490	<	1.60
25	1.654	<	1.77
50	1.791	<	1.95
100	1.922	<	2.09

Recovery

Based upon ICPR results, the proposed system meets the SRWMD requirements for recovery providing at least 1/2 of the total volume within seven days following the end of the design storm event and the total volume within 30 days following the end of the design storm event.

Project Background

Existing Facilities

The proposed Family Dollar & AutoZone project is located in the City of Alachua, FL and encompasses 2.08 acres along U.S. Highway 441. The property consists of an existing Car Wash and existing Ice Cream Shop. Currently there are two separate onsite retention storm water management systems in place. Since the Car Wash and Ice Cream Shop were developed after 1986, and based on FDOT requirements, the pre-development condition for this project will be considered undeveloped. In the undeveloped condition, runoff would generally sheet flow to the south of the site to U.S. Highway 441 and will ultimately discharge into the drainage swale located on U.S. Highway 441. The property is bordered by commercial development to the North, storm water retention pond to the West, U.S. Highway 441 to the South and N.W. 144th St. to the East.

There are no wetlands on the property.

Proposed Facilities

The project consists of a Family Dollar Retail building (8,398 SF) and AutoZone Retail building (6,816 SF) and supporting infrastructure. The proposed storm water management system will use a traditional retention-detention system in which the WQTV is recovered via percolation. The proposed control structure is designed with a 4" weir providing the required water quality treatment volume per the Suwannee River Water Management District.

The proposed outfall control structure for the project was designed using the ICPR Modeling program with a peak rate factor of K'= 484 as required by the Suwanee River Water Management District. The system model takes into consideration the estimated tail water conditions at the proposed outfall. The high tailwater condition is 18" above the invert of the swale and provides the peak stages in the system, the low tailwater condition is the invert of the swale and provides the peak rate of discharge.

Design Storms

The rainfall depths were determined using three different sources: the design storm maps found in the SRWMD Environmental Resource Permit Applicant's Handbook, the FDOT IDF Curves for Zone 5 (Alachua County) for the 1-hour through 8-hour intensities, and the FDOT rainfall maps for the 1-day rainfall depth and 3-day rainfall depth (3-day determined by interpolating 2-day and 4-day as recommended in FDOT Drainage Handbook). To be conservative, whenever a rainfall depth was available from both the Environmental Resource Permit Applicant's Handbook and FDOT rainfall maps, the greatest rainfall depth was used.

Rainfall (Inches)						
	Frequency					
Duration	2-yr	5-yr	10-yr	25-yr	50yr	100-yr
1-hr	2.25	2.85	3.20	3.60	4.00	4.40
2-hr	2.70	3.40	3.80	4.40	4.90	5.40
4-hr	3.10	4.00	4.80	5.28	6.00	6.72
8-hr	3.50	4.20	5.84	6.56	7.25	8.00
1-day	4.00	5.50	7.92	8.64	9.80	11.04
3-day	5.50	7.00	8.90	11.00	12.30	13.80
7-day	7.00	9.50	11.00	13.00	14.45	16.00
10-day	7.50	10.00	12.50	15.00	16.40	18.00

The project has been designed such that the building finish floor elevation is a minimum of 1' higher than maximum 100 yr. design storm (high tailwater, critical storm) and the top of berm elevation around the pond is higher than the 100-yr. design storm (high tailwater, critical storm). The project lies in a F.E.M.A. Flood Zone X. The proposed building finish floor elevation will be set at 77.50' N.A.V.D.

Proposed Site Area Breakdown

Total Site Area	=	**90,393 S.F.**	**(2.08 Ac.)**	**(100.0%)**
Building Area (roof)	=	15,214 S.F.	(.35 Ac.)	(16.8%)
Pavement / Sidewalk Area	=	37,744 S.F.	(.87 Ac.)	(41.8%)
Pervious Area	=	37,435 S.F.	(.86 Ac.)	(41.4%)

Pre-Development Curve Number

Since the Car Wash and Ice Cream Shop were developed after 1986, and based on FDOT requirements, the pre-development condition for this project will be considered undeveloped. In the undeveloped condition, the property consists of grassland in good condition. The soils in this area are HSG-D.

Land Use	Soils	Area	CN	%	CN%
Open	HSG-D	2.08 ac	80	100	80
	Total	2.08 ac	**80**	**100**	**80**

Pre-Development Time of Concentration

Surface Description	Velocity (ft/s)	Length (ft)	Time (s)	Time (min)
Dense Grass	1	200	200	3.33
			Total	**3.33**

* Minimum Time of Concentration of 10 minutes.

Pre-development Discharge

The pre-development peak flow rate will be determined using the rational method:

Peak Flow Rate (Q) = CiA

Runoff Coefficient (C) = 0.10

Area = 2.08 ac

This site will discharge to FDOT's drainage swale located on U.S. Highway 441, therefore the post improvement runoff rate will need to be less than the pre-improvement rational method.

Using the Florida Department of Transportation IDF Curves (Zone 5) and the time of concentration for the pre-development condition of 3.33 min:

Storm Event (yr)	(i) Intensity (in/hr)	Q = CiA (cfs)
2	6.40	1.33
5	7.10	1.48
10	7.70	1.60
25	8.50	1.77
50	9.40	1.95
100	10.05	2.09

Design Parameters

A geotechnical report was performed by CRA on June 2014 for the subject site. The geotechnical report included a double ring infiltrometer test at the proposed stormwater storage area. The following design parameters will be used based on the findings.

Average Depth of Confining Layer or Layer Thickness: 8.5 ft.
Average Vertical Unsaturated Infiltration Rate: 2 ft. /day
Average Horizontal Hydraulic Conductivity: 2 ft. /day
Factor of Safety per SRWMD: 2
Average Vertical Unsaturated Infiltration Rate for calculations: 1 ft. /day
Average Horizontal Hydraulic Conductivity for calculations: 1 ft. /day
Fillable Porosity: 25%
Average Depth to Seasonal High Water: >15 ft.
Estimated depth of Perched Water Table: 8.5 ft.
Suction head: 15 (Table 3.1 Typical Green Ampt-Parameters for Sand with Clayey Fine Sands)

Based on the design of the proposed pond, the interior perimeter 1 is: 405 ft. (64.5 radius), perimeter 2 is: 722 ft., perimeter 3 is: 3548 ft. at a distance of 50 between perimeter 1 and 2 and 450 ft. between perimeter 2 and 3.

Water Quality

1. First two inches of run-off per SRWMD:

2.0 in. x 2.08 ac. x 1 ft. / 12 in. = **0.347** ac-ft

Required for Water Quality provided at elevation 71.23' N.A.V.D.

The invert elevation of the weir will be at 71.25' N.A.V.D.

Post-Development Curve Number

Land Use	Soils	Area	CN	%	CN%
Building	n/a	.35	98	16.8	16.46
Pavement	n/a	.87	98	41.8	40.96
Open	HSG-D	.50	80	24.0	19.20
Pond	n/a	.36	100	17.4	17.40
	Total	n/a	n/a	**100**	**94.02**

Post-Development Time of Concentration

Surface Description	Velocity (ft/s)	Length (ft)	Time (s)	Time (min)
Asphalt Pavement	2.5	150	375	6.25
Pond	1	195	125	2.08
Pipe	2	25	50	.83
			Total	**9.16**

* Minimum Time of Concentration of 10 minutes.

Post-Development DCIA%

Surface Description	Area (sf)
Buildings	15,214
Pavement	37,744
Total DCIA	**52,958**
Total Area	90,393 (2.08 ac)
% DCIA	**58.59%**

Post-development Discharge

Please see attached ICPR results. The post-development runoff rate for each of the storms is less than the pre-development rational method runoff rate.

Water Quantity (Flood Attenuation)

Pond Bottom

There is .06 ac. of pond bottom area with an average bottom elevation of 69.00' N.A.V.D proposed. Storage over the pond area will be vertical starting at elevation 69.00' N.A.V.D.

Pond Slopes

There is .30 ac. of pond bank area from 69.00' to 72.75' N.A.V.D. proposed. Storage over the pond area will be linear starting at elevation 69.00' to elevation 72.75' and vertical above elevation 72.75' N.A.V.D.

Site Storage

There is .50 ac of site storage area proposed in this development. Storage over this area will be linear from elevation 72.75' to elevation 77.50' N.A.V.D.

Storage over paved areas (Roads and Parking)

There is .87 ac of site storage proposed in this development. Storage over this area will be linear from elevation 72.40' to elevation 77.50' N.A.V.D.

Please see the attached Stage/Storage Chart for further information.

Design of the Project Outfall Control Structure

The proposed outfall control structure for the project was designed using the ICPR Modeling program. The proposed control structure is designed with a 4" weir providing the required water quality treatment volume per the Suwannee River Water Management District.

This site will discharge to FDOT's drainage swale along U.S. 441. The post-development runoff rate for each of the storms is less than the pre-development rational method runoff rate. After several iterations, it was determined that this control structure yields a maximum discharge of 1.92 cfs (low tailwater, 100 yr-8 hr. critical storm). For each of the FDOT Critical Storms, the post-development discharge is less than the pre-development discharge as calculated using the rational method. Please see the attached ICPR results.

Minimum Building Finish Floor Elevation

Based upon State of Florida regulations, the minimum building finish floor elevation must be set at the greater of the maximum flood stage during the *100 yr. critical storm* or the F.E.M.A. minimum finish floor elevation established for the flood zone that the site (or structure) is located. The project lies in F.E.M.A. Flood Zone X. The proposed building finish floor elevation will be set at 77.50' N.A.V.D. The top of berm elevation around the pond is higher than the 100-yr. design storm (high tailwater, critical storm). Using ICPR Modeling program, the maximum stage attained during the 100 yr. design storm (high tailwater, 100 yr-8 hr. critical storm) is elevation 72.68' N.A.V.D.

CALCULATIONS FOR US 441 FD & AZ

Execution Date: 10/08/14
Engineer's Name: AB
Job No: 14-110

Computation Type Stage-Storage

Starting Stage 69.00
Ending Stage 78.50
Stage Increment 1.00

Name	POND BOTTOM	POND SLOPES	SITE	ROAD AND PARKING	0.00	0.00	0.00	0.00
Area (ac)	0.06	0.30	0.50	0.87				
Start Elev	69.00	69.00	72.75	72.40				
End Elev		72.75	77.50	77.50				

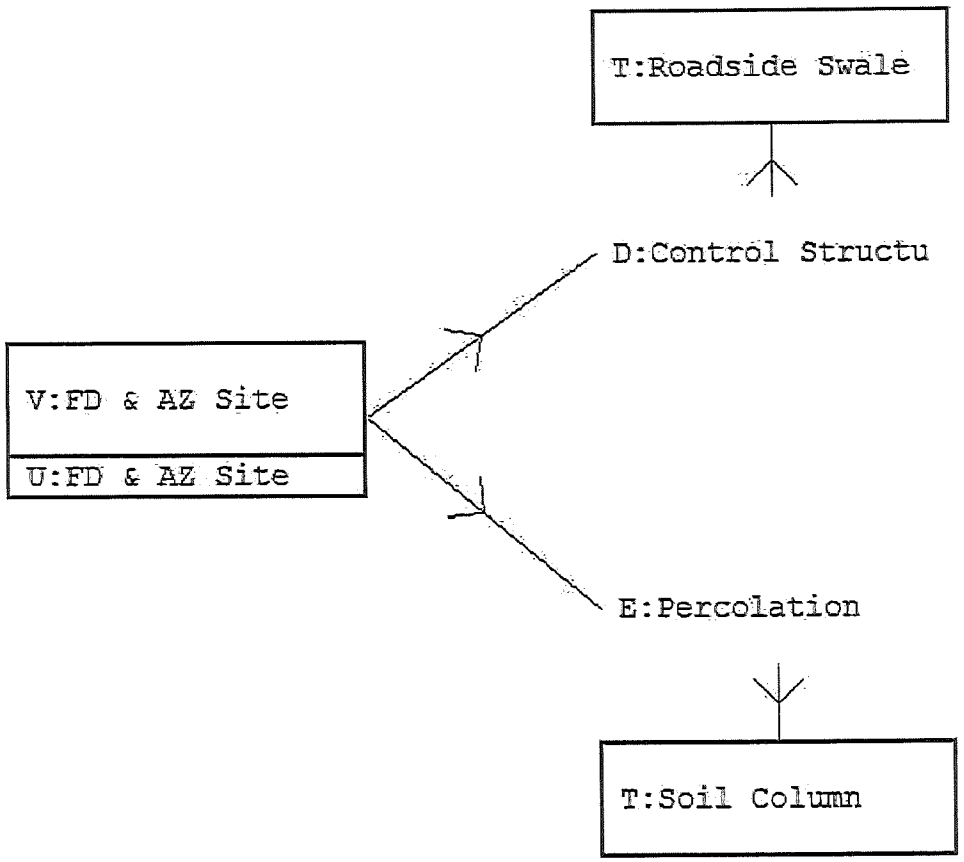
Stage Feet NAVD	Vert Storage Ac-ft	Linear Storage Ac-ft	Linear Storage Ac-ft	Linear Storage Ac-ft	Vert Storage Ac-ft	Vert Storage Ac-ft	Vert Storage Ac-ft	Vert Storage Ac-ft	Total Storage Ac-ft
69.00	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
70.00	0.06	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.10
71.00	**0.13**	**0.16**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.29**
72.00	0.19	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.55
73.00	**0.26**	**0.64**	**0.00**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**	**0.93**
74.00	0.32	0.94	0.08	0.22	0.00	0.00	0.00	0.00	1.56
75.00	**0.38**	**1.24**	**0.27**	**0.58**	**0.00**	**0.00**	**0.00**	**0.00**	**2.46**
76.00	0.45	1.54	0.56	1.11	0.00	0.00	0.00	0.00	3.65
77.00	**0.51**	**1.84**	**0.95**	**1.80**	**0.00**	**0.00**	**0.00**	**0.00**	**5.10**
78.00	0.58	2.14	1.44	2.65	0.00	0.00	0.00	0.00	6.80

.347 Ac-ft @ Elev. 71.23' NAVD

Left Click | Right Click

Select | Node | Link | Basin | Pan | Zoom In | Zoom Out

Commands | Unplaced | Legend



Import Coords

Delete

Print

Best Fit

Find Node

Find Basin

Find Link

Refresh

Groups

DXF Export

If the data displayed does not appear as expected, try clicking the refresh button before making any changes.

Basins

Name: FD & AZ Site
Group: BASE
Node: FD & AZ Site
Type: SCS Unit Hydrograph CN
Status: Onsite

Unit Hydrograph: Uh484
Rainfall File:
Rainfall Amount(in): 0.000
Area(ac): 2.080
Curve Number: 94.02
DCIA(%): 58.59
Peaking Factor: 484.0
Storm Duration(hrs): 0.00
Time of Conc(min): 10.00
Time Shift(hrs): 0.00
Max Allowable Q(cfs): 999999.000

Nodes

Name: FD & AZ Site
Group: BASE
Type: Stage/Volume
Base Flow(cfs): 0.000
Init Stage(ft): 69.000
Warn Stage(ft): 78.000

Stage(ft)	Volume(af)
69.000	0.0000
70.000	0.1000
71.000	0.2900
72.000	0.5500
73.000	0.9300
74.000	1.5600
75.000	2.4600
76.000	3.6500
77.000	5.1000
78.000	6.8000

Name: Roadside Swale
Group: BASE
Type: Time/Stage
Base Flow(cfs): 0.000
Init Stage(ft): 66.000
Warn Stage(ft): 68.000

Time(hrs)	Stage(ft)
0.00	66.250
8.00	67.750
24.00	66.250
360.00	66.250

Name: Soil Column
Group: BASE
Type: Time/Stage
Base Flow(cfs): 0.000
Init Stage(ft): 0.000
Warn Stage(ft): 0.000

Time(hrs)	Stage(ft)
0.00	0.000
999.00	0.000

Drop Structures

Name: Control Structu
Group: BASE
From Node: FD & AZ Site
To Node: Roadside Swale
Length(ft): 25.00
Count: 1

	UPSTREAM	DOWNSTREAM
Geometry:	Circular	Circular
Span(in):	12.00	12.00
Rise(in):	12.00	12.00
Invert(ft):	68.000	67.750
Manning's N:	0.011000	0.011000
Top Clip(in):	0.000	0.000
Bot Clip(in):	0.000	0.000

Friction Equation: Automatic
Solution Algorithm: Most Restrictive
Flow: Both
Entrance Loss Coef: 0.000
Exit Loss Coef: 1.000
Outlet Ctrl Spec: Use dc or tw
Inlet Ctrl Spec: Use dc
Solution Incs: 10

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

*** Weir 1 of 1 for Drop Structure Control Structu ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Horizontal	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	4.00	Invert(ft):	71.250
Rise(in):	18.00	Control Elev(ft):	71.250

==== Percolation Links ====

Name:	Percolation	From Node:	FD & AZ Site
Group:	BASE	To Node:	Soil Column
		Flow:	Both
		Count:	1

Surface Area Option:	Vary based on Stage/Area Table		
Vertical Flow Termination:	Horizontal Flow Algorithm		
Aquifer Base Elev(ft):	54.000	Perimeter 1(ft):	405.000
Water Table Elev(ft):	60.500	Perimeter 2(ft):	722.000
Ann Recharge Rate(in/year):	0.000	Perimeter 3(ft):	3548.000
Horiz Conductivity(ft/day):	1.000	Distance 1 to 2(ft):	50.000
Vert Conductivity(ft/day):	1.000	Distance 2 to 3(ft):	450.000
Effective Porosity(dec):	0.250	Num Cells 1 to 2:	10
Suction Head(in):	15.000	Num Cells 2 to 3:	45
Layer Thickness(ft):	8.500		

==== Hydrology Simulations ====

Name: 002Y001H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y001H.R32

Override Defaults: Yes
Storm Duration(hrs): 1.00
Rainfall File: FDOT-1
Rainfall Amount(in): 2.25

Time(hrs)	Print Inc(min)
2.000	2.50

Name: 002Y002H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y002H.R32

Override Defaults: Yes
Storm Duration(hrs): 2.00
Rainfall File: FDOT-2
Rainfall Amount(in): 2.70

Time(hrs)	Print Inc(min)
4.000	2.50

Name: 002Y004H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y004H.R32

Override Defaults: Yes
Storm Duration(hrs): 4.00
Rainfall File: FDOT-4
Rainfall Amount(in): 3.10

Time(hrs)	Print Inc(min)
6.000	2.50

Name: 002Y008H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y008H.R32

Override Defaults: Yes
Storm Duration(hrs): 8.00
Rainfall File: FDOT-8
Rainfall Amount(in): 3.50

Time(hrs)	Print Inc(min)
12.000	2.50

Name: 002Y024H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y024H.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: FDOT-24
Rainfall Amount(in): 4.00

Time(hrs)	Print Inc(min)
30.000	5.00

Name: 002Y072H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y072H.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00
Rainfall File: FDOT-72
Rainfall Amount(in): 5.50

Time(hrs)	Print Inc(min)
77.000	5.00

Name: 002Y168H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y168H.R32

Override Defaults: Yes
Storm Duration(hrs): 168.00
Rainfall File: FDOT-168
Rainfall Amount(in): 7.00

Time(hrs)	Print Inc(min)
173.000	5.00

Name: 002Y240H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y240H.R32

Override Defaults: Yes
Storm Duration(hrs): 240.00
Rainfall File: FDOT-240
Rainfall Amount(in): 7.50

Time(hrs)	Print Inc(min)
245.000	5.00

Name: 005Y001H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y001H.R32

Override Defaults: Yes
Storm Duration(hrs): 1.00
Rainfall File: FDOT-1
Rainfall Amount(in): 2.85

Time(hrs)	Print Inc(min)
2.000	2.50

Name: 005Y002H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y002H.R32

Override Defaults: Yes
Storm Duration(hrs): 2.00
Rainfall File: FDOT-2
Rainfall Amount(in): 3.40

Time(hrs)	Print Inc(min)
4.000	2.50

Name: 005Y004H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y004H.R32

Override Defaults: Yes
Storm Duration(hrs): 4.00
Rainfall File: FDOT-4
Rainfall Amount(in): 4.00

Time(hrs)	Print Inc(min)
6.000	2.50

Name: 005Y008H

Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y008H.R32

Override Defaults: Yes
Storm Duration(hrs): 8.00
Rainfall File: FDOT-8
Rainfall Amount(in): 4.20

Time(hrs)	Print Inc(min)
12.000	2.50

Name: 005Y024H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y024H.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: FDOT-24
Rainfall Amount(in): 5.50

Time(hrs)	Print Inc(min)
30.000	5.00

Name: 005Y072H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y072H.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00
Rainfall File: FDOT-72
Rainfall Amount(in): 7.00

Time(hrs)	Print Inc(min)
77.000	5.00

Name: 005Y168H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y168H.R32

Override Defaults: Yes
Storm Duration(hrs): 168.00
Rainfall File: FDOT-168
Rainfall Amount(in): 9.50

Time(hrs)	Print Inc(min)
173.000	5.00

Name: 005Y240H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y240H.R32

Override Defaults: Yes
Storm Duration(hrs): 240.00
Rainfall File: FDOT-240
Rainfall Amount(in): 10.00

Time(hrs)	Print Inc(min)
245.000	5.00

Name: 010Y001H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y001H.R32

Override Defaults: Yes
Storm Duration(hrs): 1.00
Rainfall File: FDOT-1
Rainfall Amount(in): 3.20

Time(hrs)	Print Inc(min)
2.000	2.50

Name: 010Y002H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y002H.R32

Override Defaults: Yes
Storm Duration(hrs): 2.00
Rainfall File: FDOT-2
Rainfall Amount(in): 3.80

Time(hrs)	Print Inc(min)
4.000	2.50

Name: 010Y004H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y004H.R32

Override Defaults: Yes
Storm Duration(hrs): 4.00
Rainfall File: FDOT-4
Rainfall Amount(in): 4.80

Time(hrs)	Print Inc(min)
6.000	2.50

Name: 010Y008H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y008H.R32

Override Defaults: Yes
Storm Duration(hrs): 8.00
Rainfall File: FDOT-8
Rainfall Amount(in): 5.84

Time(hrs)	Print Inc(min)
12.000	2.50

Name: 010Y024H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y024H.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: FDOT-24
Rainfall Amount(in): 7.92

Time(hrs)	Print Inc(min)
30.000	5.00

Name: 010Y072H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y072H.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00
Rainfall File: FDOT-72
Rainfall Amount(in): 8.90

Time(hrs)	Print Inc(min)
77.000	5.00

Name: 010Y168H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y168H.R32

Override Defaults: Yes
Storm Duration(hrs): 168.00
Rainfall File: FDOT-168
Rainfall Amount(in): 11.00

Time(hrs)	Print Inc(min)
173.000	5.00

Name: 010Y240H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y240H.R32

Override Defaults: Yes
Storm Duration(hrs): 240.00
Rainfall File: FDOT-240
Rainfall Amount(in): 12.50

Time(hrs)	Print Inc(min)
245.000	5.00

Name: 025Y001H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y001H.R32

Override Defaults: Yes
Storm Duration(hrs): 1.00
Rainfall File: FDOT-1
Rainfall Amount(in): 3.60

Time(hrs)	Print Inc(min)
2.000	2.50

Name: 025Y002H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y002H.R32

Override Defaults: Yes
Storm Duration(hrs): 2.00
Rainfall File: FDOT-2
Rainfall Amount(in): 4.40

Time(hrs)	Print Inc(min)
4.000	2.50

Name: 025Y004H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y004H.R32

Override Defaults: Yes
Storm Duration(hrs): 4.00
Rainfall File: FDOT-4
Rainfall Amount(in): 5.28

Time(hrs)	Print Inc(min)
6.000	2.50

Name: 025Y008H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y008H.R32

Override Defaults: Yes
Storm Duration(hrs): 8.00
Rainfall File: FDOT-8
Rainfall Amount(in): 6.56

Time(hrs)	Print Inc(min)
12.000	2.50

Name: 025Y024H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y024H.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: FDOT-24
Rainfall Amount(in): 8.64

Time(hrs)	Print Inc(min)
30.000	5.00

Name: 025Y072H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y072H.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00
Rainfall File: FDOT-72
Rainfall Amount(in): 11.00

Time(hrs)	Print Inc(min)
77.000	5.00

Name: 025Y168H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y168H.R32

Override Defaults: Yes
Storm Duration(hrs): 168.00
Rainfall File: FDOT-168
Rainfall Amount(in): 13.00

Time(hrs)	Print Inc(min)
173.000	5.00

Name: 025Y240H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y240H.R32

Override Defaults: Yes
Storm Duration(hrs): 240.00
Rainfall File: FDOT-240
Rainfall Amount(in): 15.00

Time(hrs)	Print Inc(min)
245.000	5.00

Name: 050Y001H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y001H.R32

Override Defaults: Yes
Storm Duration(hrs): 1.00
Rainfall File: FDOT-1
Rainfall Amount(in): 4.00

Time(hrs)	Print Inc(min)
2.000	2.50

Name: 050Y002H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y002H.R32

Override Defaults: Yes
Storm Duration(hrs): 2.00
Rainfall File: FDOT-2
Rainfall Amount(in): 4.90

Time(hrs)	Print Inc(min)
4.000	2.50

Name: 050Y004H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y004H.R32

Override Defaults: Yes
Storm Duration(hrs): 4.00
Rainfall File: FDOT-4
Rainfall Amount(in): 6.00

Time(hrs)	Print Inc(min)
6.000	2.50

Name: 050Y008H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y008H.R32

Override Defaults: Yes
Storm Duration(hrs): 8.00
Rainfall File: FDOT-8
Rainfall Amount(in): 7.25

Time(hrs)	Print Inc(min)
12.000	2.50

Name: 050Y024H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y024H.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: FDOT-24
Rainfall Amount(in): 9.80

Time(hrs)	Print Inc(min)
30.000	5.00

Name: 050Y072H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y072H.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00
Rainfall File: FDOT-72
Rainfall Amount(in): 12.30

Time(hrs)	Print Inc(min)
77.000	5.00

Name: 050Y168H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y168H.R32

Override Defaults: Yes
Storm Duration(hrs): 168.00
Rainfall File: FDOT-168
Rainfall Amount(in): 14.45

Time(hrs)	Print Inc(min)

173.000 5.00

Name: 050Y240H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y240H.R32

Override Defaults: Yes
Storm Duration(hrs): 240.00
Rainfall File: FDOT-240
Rainfall Amount(in): 16.40

Time(hrs)	Print Inc(min)
245.000	5.00

Name: 100Y001H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y001H.R32

Override Defaults: Yes
Storm Duration(hrs): 1.00
Rainfall File: FDOT-1
Rainfall Amount(in): 4.40

Time(hrs)	Print Inc(min)
2.000	2.50

Name: 100Y002H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y002H.R32

Override Defaults: Yes
Storm Duration(hrs): 2.00
Rainfall File: FDOT-2
Rainfall Amount(in): 5.40

Time(hrs)	Print Inc(min)
4.000	2.50

Name: 100Y004H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y004H.R32

Override Defaults: Yes
Storm Duration(hrs): 4.00
Rainfall File: FDOT-4
Rainfall Amount(in): 6.72

Time(hrs)	Print Inc(min)
6.000	2.50

Name: 100Y008H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y008H.R32

Override Defaults: Yes
Storm Duration(hrs): 8.00
Rainfall File: FDOT-8
Rainfall Amount(in): 8.00

Time(hrs)	Print Inc(min)
12.000	2.50

Name: 100Y024H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y024H.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: FDOT-24
Rainfall Amount(in): 11.04

Time(hrs)	Print Inc(min)
30.000	5.00

Name: 100Y072H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y072H.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00
Rainfall File: FDOT-72
Rainfall Amount(in): 13.80

Time(hrs)	Print Inc(min)

77.000	5.00

Name: 100Y168H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y168H.R32

Override Defaults: Yes
Storm Duration(hrs): 168.00
Rainfall File: FDOT-168
Rainfall Amount(in): 16.00

Time(hrs)	Print Inc(min)
173.000	5.00

Name: 100Y240H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y240H.R32

Override Defaults: Yes
Storm Duration(hrs): 240.00
Rainfall File: FDOT-240
Rainfall Amount(in): 18.00

Time(hrs)	Print Inc(min)
245.000	5.00

Routing Simulations

Name: 002Y001H Hydrology Sim: 002Y001H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y001H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 2.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

002 yr / 001 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 002Y002H Hydrology Sim: 002Y002H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y002H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 4.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

002 yr / 002 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 002Y004H Hydrology Sim: 002Y004H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y004H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 6.00

Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

002 yr / 004 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 002Y008H Hydrology Sim: 002Y008H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y008H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 12.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

002 yr / 008 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 002Y024H Hydrology Sim: 002Y024H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y024H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 30.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

002 yr / 024 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 002Y072H Hydrology Sim: 002Y072H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y072H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 77.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

002 yr / 072 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 002Y168H Hydrology Sim: 002Y168H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y168H.I32

```
      Execute: Yes          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                      Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                       End Time(hrs): 173.00
     Min Calc Time(sec): 0.2500                 Max Calc Time(sec): 60.0000
       Boundary Stages:                           Boundary Flows:

002 yr / 168 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------------
         Name: 002Y240H            Hydrology Sim: 002Y240H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y240H.I32

      Execute: Yes          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                      Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                       End Time(hrs): 245.00
     Min Calc Time(sec): 0.2500                 Max Calc Time(sec): 60.0000
       Boundary Stages:                           Boundary Flows:

002 yr / 240 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------------
         Name: 005Y001H            Hydrology Sim: 005Y001H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y001H.I32

      Execute: Yes          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                      Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                       End Time(hrs): 2.00
     Min Calc Time(sec): 0.2500                 Max Calc Time(sec): 60.0000
       Boundary Stages:                           Boundary Flows:

005 yr / 001 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------------
         Name: 005Y002H            Hydrology Sim: 005Y002H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y002H.I32

      Execute: Yes          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                      Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                       End Time(hrs): 4.00
     Min Calc Time(sec): 0.2500                 Max Calc Time(sec): 60.0000
       Boundary Stages:                           Boundary Flows:

005 yr / 002 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes
```

```
---------------------------------------------------------------------------------------------------
        Name: 005Y004H            Hydrology Sim: 005Y004H
    Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y004H.I32

     Execute: Yes         Restart: No            Patch: No
 Alternative: No

       Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
   Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                    End Time(hrs): 6.00
    Min Calc Time(sec): 0.2500               Max Calc Time(sec): 60.0000
       Boundary Stages:                          Boundary Flows:

005 yr / 004 hr

Time(hrs)        Print Inc(min)
---------------- ----------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


---------------------------------------------------------------------------------------------------
        Name: 005Y008H            Hydrology Sim: 005Y008H
    Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y008H.I32

     Execute: Yes         Restart: No            Patch: No
 Alternative: No

       Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
   Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                    End Time(hrs): 12.00
    Min Calc Time(sec): 0.2500               Max Calc Time(sec): 60.0000
       Boundary Stages:                          Boundary Flows:

005 yr / 008 hr

Time(hrs)        Print Inc(min)
---------------- ----------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


---------------------------------------------------------------------------------------------------
        Name: 005Y024H            Hydrology Sim: 005Y024H
    Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y024H.I32

     Execute: Yes         Restart: No            Patch: No
 Alternative: No

       Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
   Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                    End Time(hrs): 30.00
    Min Calc Time(sec): 0.2500               Max Calc Time(sec): 60.0000
       Boundary Stages:                          Boundary Flows:

005 yr / 024 hr

Time(hrs)        Print Inc(min)
---------------- ----------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


---------------------------------------------------------------------------------------------------
        Name: 005Y072H            Hydrology Sim: 005Y072H
    Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y072H.I32

     Execute: Yes         Restart: No            Patch: No
 Alternative: No

       Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
   Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                    End Time(hrs): 77.00
    Min Calc Time(sec): 0.2500               Max Calc Time(sec): 60.0000
       Boundary Stages:                          Boundary Flows:

005 yr / 072 hr

Time(hrs)        Print Inc(min)
```

999.000	5.000

Group	Run
BASE	Yes

Name: 005Y168H Hydrology Sim: 005Y168H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y168H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 173.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

005 yr / 168 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 005Y240H Hydrology Sim: 005Y240H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y240H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 245.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

005 yr / 240 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 010Y001H Hydrology Sim: 010Y001H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y001H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 2.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

010 yr / 001 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 010Y002H Hydrology Sim: 010Y002H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y002H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 4.00

```
     Min Calc Time(sec): 0.2500              Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:

010 yr / 002 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------
         Name: 010Y004H            Hydrology Sim: 010Y004H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y004H.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                     End Time(hrs): 6.00
     Min Calc Time(sec): 0.2500              Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:

010 yr / 004 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------
         Name: 010Y008H            Hydrology Sim: 010Y008H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y008H.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                     End Time(hrs): 12.00
     Min Calc Time(sec): 0.2500              Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:

010 yr / 008 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------
         Name: 010Y024H            Hydrology Sim: 010Y024H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y024H.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                     End Time(hrs): 30.00
     Min Calc Time(sec): 0.2500              Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:

010 yr / 024 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------
         Name: 010Y072H            Hydrology Sim: 010Y072H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y072H.I32
```

```
      Execute: Yes          Restart: No             Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                      Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                       End Time(hrs): 77.00
     Min Calc Time(sec): 0.2500                 Max Calc Time(sec): 60.0000
       Boundary Stages:                           Boundary Flows:

010 yr / 072 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


--------------------------------------------------------------------------------------------------------
         Name: 010Y168H            Hydrology Sim: 010Y168H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y168H.I32

      Execute: Yes          Restart: No             Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                      Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                       End Time(hrs): 173.00
     Min Calc Time(sec): 0.2500                 Max Calc Time(sec): 60.0000
       Boundary Stages:                           Boundary Flows:

010 yr / 168 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


--------------------------------------------------------------------------------------------------------
         Name: 010Y240H            Hydrology Sim: 010Y240H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y240H.I32

      Execute: Yes          Restart: No             Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                      Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                       End Time(hrs): 245.00
     Min Calc Time(sec): 0.2500                 Max Calc Time(sec): 60.0000
       Boundary Stages:                           Boundary Flows:

010 yr / 240 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


--------------------------------------------------------------------------------------------------------
         Name: 025Y001H            Hydrology Sim: 025Y001H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y001H.I32

      Execute: Yes          Restart: No             Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                      Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                       End Time(hrs): 2.00
     Min Calc Time(sec): 0.2500                 Max Calc Time(sec): 60.0000
       Boundary Stages:                           Boundary Flows:

025 yr / 001 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes
```

Name: 025Y002H Hydrology Sim: 025Y002H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y002H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 4.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

025 yr / 002 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 025Y004H Hydrology Sim: 025Y004H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y004H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 6.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

025 yr / 004 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 025Y008H Hydrology Sim: 025Y008H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y008H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 12.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

025 yr / 008 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 025Y024H Hydrology Sim: 025Y024H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y024H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 30.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

025 yr / 024 hr

Time(hrs)	Print Inc(min)

999.000	5.000

Group	Run
BASE	Yes

Name: 025Y072H Hydrology Sim: 025Y072H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y072H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 77.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

025 yr / 072 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 025Y168H Hydrology Sim: 025Y168H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y168H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 173.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

025 yr / 168 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 025Y240H Hydrology Sim: 025Y240H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y240H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 245.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

025 yr / 240 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 050Y001H Hydrology Sim: 050Y001H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y001H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 2.00

```
     Min Calc Time(sec): 0.2500              Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:

050 yr / 001 hr

Time(hrs)       Print Inc(min)
--------------- ---------------
999.000         5.000

Group           Run
--------------- -----
BASE            Yes


-------------------------------------------------------------------------------------------------------
         Name: 050Y002H            Hydrology Sim: 050Y002H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y002H.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 4.00
     Min Calc Time(sec): 0.2500              Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:

050 yr / 002 hr

Time(hrs)       Print Inc(min)
--------------- ---------------
999.000         5.000

Group           Run
--------------- -----
BASE            Yes


-------------------------------------------------------------------------------------------------------
         Name: 050Y004H            Hydrology Sim: 050Y004H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y004H.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 6.00
     Min Calc Time(sec): 0.2500              Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:

050 yr / 004 hr

Time(hrs)       Print Inc(min)
--------------- ---------------
999.000         5.000

Group           Run
--------------- -----
BASE            Yes


-------------------------------------------------------------------------------------------------------
         Name: 050Y008H            Hydrology Sim: 050Y008H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y008H.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 12.00
     Min Calc Time(sec): 0.2500              Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:

050 yr / 008 hr

Time(hrs)       Print Inc(min)
--------------- ---------------
999.000         5.000

Group           Run
--------------- -----
BASE            Yes


-------------------------------------------------------------------------------------------------------
         Name: 050Y024H            Hydrology Sim: 050Y024H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y024H.I32
```

```
      Execute: Yes          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                     Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                     End Time(hrs): 30.00
     Min Calc Time(sec): 0.2500                Max Calc Time(sec): 60.0000
        Boundary Stages:                          Boundary Flows:

050 yr / 024 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------
         Name: 050Y072H            Hydrology Sim: 050Y072H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y072H.I32

      Execute: Yes          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                     Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                     End Time(hrs): 77.00
     Min Calc Time(sec): 0.2500                Max Calc Time(sec): 60.0000
        Boundary Stages:                          Boundary Flows:

050 yr / 072 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------
         Name: 050Y168H            Hydrology Sim: 050Y168H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y168H.I32

      Execute: Yes          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                     Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                     End Time(hrs): 173.00
     Min Calc Time(sec): 0.2500                Max Calc Time(sec): 60.0000
        Boundary Stages:                          Boundary Flows:

050 yr / 168 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------
         Name: 050Y240H            Hydrology Sim: 050Y240H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y240H.I32

      Execute: Yes          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                     Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                     End Time(hrs): 245.00
     Min Calc Time(sec): 0.2500                Max Calc Time(sec): 60.0000
        Boundary Stages:                          Boundary Flows:

050 yr / 240 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes
```

```
-------------------------------------------------------------------------------------------------
         Name: 100Y001H            Hydrology Sim: 100Y001H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y001H.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                     End Time(hrs): 2.00
     Min Calc Time(sec): 0.2500               Max Calc Time(sec): 60.0000
       Boundary Stages:                         Boundary Flows:

100 yr / 001 hr

Time(hrs)       Print Inc(min)
--------------- ---------------
999.000         5.000

Group           Run
--------------- -----
BASE            Yes


-------------------------------------------------------------------------------------------------
         Name: 100Y002H            Hydrology Sim: 100Y002H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y002H.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                     End Time(hrs): 4.00
     Min Calc Time(sec): 0.2500               Max Calc Time(sec): 60.0000
       Boundary Stages:                         Boundary Flows:

100 yr / 002 hr

Time(hrs)       Print Inc(min)
--------------- ---------------
999.000         5.000

Group           Run
--------------- -----
BASE            Yes


-------------------------------------------------------------------------------------------------
         Name: 100Y004H            Hydrology Sim: 100Y004H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y004H.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                     End Time(hrs): 6.00
     Min Calc Time(sec): 0.2500               Max Calc Time(sec): 60.0000
       Boundary Stages:                         Boundary Flows:

100 yr / 004 hr

Time(hrs)       Print Inc(min)
--------------- ---------------
999.000         5.000

Group           Run
--------------- -----
BASE            Yes


-------------------------------------------------------------------------------------------------
         Name: 100Y008H            Hydrology Sim: 100Y008H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y008H.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                     End Time(hrs): 12.00
     Min Calc Time(sec): 0.2500               Max Calc Time(sec): 60.0000
       Boundary Stages:                         Boundary Flows:

100 yr / 008 hr

Time(hrs)       Print Inc(min)
```

999.000	5.000

Group	Run
BASE	Yes

Name: 100Y024H Hydrology Sim: 100Y024H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y024H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 30.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

100 yr / 024 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 100Y072H Hydrology Sim: 100Y072H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y072H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 77.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

100 yr / 072 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 100Y168H Hydrology Sim: 100Y168H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y168H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 173.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

100 yr / 168 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 100Y240H Hydrology Sim: 100Y240H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y240H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 245.00

Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

100 yr / 240 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Basins

Name: FD & AZ Site
Group: BASE
Node: FD & AZ Site
Type: SCS Unit Hydrograph CN
Status: Onsite

Unit Hydrograph: Uh484
Rainfall File:
Rainfall Amount(in): 0.000
Area(ac): 2.080
Curve Number: 94.02
DCIA(%): 58.59
Peaking Factor: 484.0
Storm Duration(hrs): 0.00
Time of Conc(min): 10.00
Time Shift(hrs): 0.00
Max Allowable Q(cfs): 999999.000

Nodes

Name: FD & AZ Site
Group: BASE
Type: Stage/Volume
Base Flow(cfs): 0.000
Init Stage(ft): 69.000
Warn Stage(ft): 78.000

Stage(ft)	Volume(af)
69.000	0.0000
70.000	0.1000
71.000	0.2900
72.000	0.5500
73.000	0.9300
74.000	1.5600
75.000	2.4600
76.000	3.6500
77.000	5.1000
78.000	6.8000

Name: Roadside Swale
Group: BASE
Type: Time/Stage
Base Flow(cfs): 0.000
Init Stage(ft): 67.000
Warn Stage(ft): 70.000

Time(hrs)	Stage(ft)
0.00	67.750
8.00	69.250
24.00	67.750
360.00	67.750

Name: Soil Column
Group: BASE
Type: Time/Stage
Base Flow(cfs): 0.000
Init Stage(ft): 0.000
Warn Stage(ft): 0.000

Time(hrs)	Stage(ft)
0.00	0.000
999.00	0.000

Drop Structures

Name: Control Structu
Group: BASE
From Node: FD & AZ Site
To Node: Roadside Swale
Length(ft): 25.00
Count: 1

	UPSTREAM	DOWNSTREAM
Geometry:	Circular	Circular
Span(in):	12.00	12.00
Rise(in):	12.00	12.00
Invert(ft):	68.000	67.750
Manning's N:	0.011000	0.011000
Top Clip(in):	0.000	0.000
Bot Clip(in):	0.000	0.000

Friction Equation: Automatic
Solution Algorithm: Most Restrictive
Flow: Both
Entrance Loss Coef: 0.000
Exit Loss Coef: 1.000
Outlet Ctrl Spec: Use dc or tw
Inlet Ctrl Spec: Use dc
Solution Incs: 10

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

*** Weir 1 of 1 for Drop Structure Control Structu ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Horizontal	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	4.00	Invert(ft):	71.250
Rise(in):	18.00	Control Elev(ft):	71.250

Percolation Links

Name:	Percolation	From Node:	FD & AZ Site	Flow:	Both
Group:	BASE	To Node:	Soil Column	Count:	1

Surface Area Option:	Vary based on Stage/Area Table		
Vertical Flow Termination:	Horizontal Flow Algorithm		
Aquifer Base Elev(ft):	54.000	Perimeter 1(ft):	405.000
Water Table Elev(ft):	60.500	Perimeter 2(ft):	722.000
Ann Recharge Rate(in/year):	0.000	Perimeter 3(ft):	3548.000
Horiz Conductivity(ft/day):	1.000	Distance 1 to 2(ft):	50.000
Vert Conductivity(ft/day):	1.000	Distance 2 to 3(ft):	450.000
Effective Porosity(dec):	0.250	Num Cells 1 to 2:	10
Suction Head(in):	15.000	Num Cells 2 to 3:	45
Layer Thickness(ft):	8.500		

Hydrology Simulations

Name: 002Y001H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y001H.R32

Override Defaults:	Yes
Storm Duration(hrs):	1.00
Rainfall File:	FDOT-1
Rainfall Amount(in):	2.25

Time(hrs)	Print Inc(min)
2.000	2.50

Name: 002Y002H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y002H.R32

Override Defaults:	Yes
Storm Duration(hrs):	2.00
Rainfall File:	FDOT-2
Rainfall Amount(in):	2.70

Time(hrs)	Print Inc(min)
4.000	2.50

Name: 002Y004H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y004H.R32

Override Defaults:	Yes
Storm Duration(hrs):	4.00
Rainfall File:	FDOT-4
Rainfall Amount(in):	3.10

Time(hrs)	Print Inc(min)
6.000	2.50

Name: 002Y008H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y008H.R32

Override Defaults:	Yes
Storm Duration(hrs):	8.00
Rainfall File:	FDOT-8
Rainfall Amount(in):	3.50

Time(hrs)	Print Inc(min)
12.000	2.50

Name: 002Y024H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y024H.R32

```
      Override Defaults: Yes
    Storm Duration(hrs): 24.00
          Rainfall File: FDOT-24
    Rainfall Amount(in): 4.00

Time(hrs)        Print Inc(min)
---------------- ---------------
30.000           5.00

-------------------------------------------------------------------------------------------------------
         Name: 002Y072H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y072H.R32

      Override Defaults: Yes
    Storm Duration(hrs): 72.00
          Rainfall File: FDOT-72
    Rainfall Amount(in): 5.50

Time(hrs)        Print Inc(min)
---------------- ---------------
77.000           5.00

-------------------------------------------------------------------------------------------------------
         Name: 002Y168H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y168H.R32

      Override Defaults: Yes
    Storm Duration(hrs): 168.00
          Rainfall File: FDOT-168
    Rainfall Amount(in): 7.00

Time(hrs)        Print Inc(min)
---------------- ---------------
173.000          5.00

-------------------------------------------------------------------------------------------------------
         Name: 002Y240H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y240H.R32

      Override Defaults: Yes
    Storm Duration(hrs): 240.00
          Rainfall File: FDOT-240
    Rainfall Amount(in): 7.50

Time(hrs)        Print Inc(min)
---------------- ---------------
245.000          5.00

-------------------------------------------------------------------------------------------------------
         Name: 005Y001H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y001H.R32

      Override Defaults: Yes
    Storm Duration(hrs): 1.00
          Rainfall File: FDOT-1
    Rainfall Amount(in): 2.85

Time(hrs)        Print Inc(min)
---------------- ---------------
2.000            2.50

-------------------------------------------------------------------------------------------------------
         Name: 005Y002H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y002H.R32

      Override Defaults: Yes
    Storm Duration(hrs): 2.00
          Rainfall File: FDOT-2
    Rainfall Amount(in): 3.40

Time(hrs)        Print Inc(min)
---------------- ---------------
4.000            2.50

-------------------------------------------------------------------------------------------------------
         Name: 005Y004H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y004H.R32

      Override Defaults: Yes
    Storm Duration(hrs): 4.00
          Rainfall File: FDOT-4
    Rainfall Amount(in): 4.00

Time(hrs)        Print Inc(min)
---------------- ---------------
6.000            2.50

-------------------------------------------------------------------------------------------------------
         Name: 005Y008H
```

```
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y008H.R32

      Override Defaults: Yes
    Storm Duration(hrs): 8.00
          Rainfall File: FDOT-8
    Rainfall Amount(in): 4.20

Time(hrs)        Print Inc(min)
---------------- ----------------
12.000           2.50

-------------------------------------------------------------------------------------------------------
         Name: 005Y024H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y024H.R32

      Override Defaults: Yes
    Storm Duration(hrs): 24.00
          Rainfall File: FDOT-24
    Rainfall Amount(in): 5.50

Time(hrs)        Print Inc(min)
---------------- ----------------
30.000           5.00

-------------------------------------------------------------------------------------------------------
         Name: 005Y072H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y072H.R32

      Override Defaults: Yes
    Storm Duration(hrs): 72.00
          Rainfall File: FDOT-72
    Rainfall Amount(in): 7.00

Time(hrs)        Print Inc(min)
---------------- ----------------
77.000           5.00

-------------------------------------------------------------------------------------------------------
         Name: 005Y168H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y168H.R32

      Override Defaults: Yes
    Storm Duration(hrs): 168.00
          Rainfall File: FDOT-168
    Rainfall Amount(in): 9.50

Time(hrs)        Print Inc(min)
---------------- ----------------
173.000          5.00

-------------------------------------------------------------------------------------------------------
         Name: 005Y240H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y240H.R32

      Override Defaults: Yes
    Storm Duration(hrs): 240.00
          Rainfall File: FDOT-240
    Rainfall Amount(in): 10.00

Time(hrs)        Print Inc(min)
---------------- ----------------
245.000          5.00

-------------------------------------------------------------------------------------------------------
         Name: 010Y001H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y001H.R32

      Override Defaults: Yes
    Storm Duration(hrs): 1.00
          Rainfall File: FDOT-1
    Rainfall Amount(in): 3.20

Time(hrs)        Print Inc(min)
---------------- ----------------
2.000            2.50

-------------------------------------------------------------------------------------------------------
         Name: 010Y002H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y002H.R32

      Override Defaults: Yes
    Storm Duration(hrs): 2.00
          Rainfall File: FDOT-2
    Rainfall Amount(in): 3.80

Time(hrs)        Print Inc(min)
---------------- ----------------
4.000            2.50

-------------------------------------------------------------------------------------------------------
```

Name: 010Y004H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y004H.R32

Override Defaults: Yes
Storm Duration(hrs): 4.00
Rainfall File: FDOT-4
Rainfall Amount(in): 4.80

Time(hrs)	Print Inc(min)
6.000	2.50

Name: 010Y008H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y008H.R32

Override Defaults: Yes
Storm Duration(hrs): 8.00
Rainfall File: FDOT-8
Rainfall Amount(in): 5.84

Time(hrs)	Print Inc(min)
12.000	2.50

Name: 010Y024H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y024H.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: FDOT-24
Rainfall Amount(in): 7.92

Time(hrs)	Print Inc(min)
30.000	5.00

Name: 010Y072H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y072H.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00
Rainfall File: FDOT-72
Rainfall Amount(in): 8.90

Time(hrs)	Print Inc(min)
77.000	5.00

Name: 010Y168H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y168H.R32

Override Defaults: Yes
Storm Duration(hrs): 168.00
Rainfall File: FDOT-168
Rainfall Amount(in): 11.00

Time(hrs)	Print Inc(min)
173.000	5.00

Name: 010Y240H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y240H.R32

Override Defaults: Yes
Storm Duration(hrs): 240.00
Rainfall File: FDOT-240
Rainfall Amount(in): 12.50

Time(hrs)	Print Inc(min)
245.000	5.00

Name: 025Y001H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y001H.R32

Override Defaults: Yes
Storm Duration(hrs): 1.00
Rainfall File: FDOT-1
Rainfall Amount(in): 3.60

Time(hrs)	Print Inc(min)
2.000	2.50

Name: 025Y002H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y002H.R32

Override Defaults: Yes
Storm Duration(hrs): 2.00
Rainfall File: FDOT-2
Rainfall Amount(in): 4.40

Time(hrs)	Print Inc(min)
4.000	2.50

Name: 025Y004H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y004H.R32

Override Defaults: Yes
Storm Duration(hrs): 4.00
Rainfall File: FDOT-4
Rainfall Amount(in): 5.28

Time(hrs)	Print Inc(min)
6.000	2.50

Name: 025Y008H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y008H.R32

Override Defaults: Yes
Storm Duration(hrs): 8.00
Rainfall File: FDOT-8
Rainfall Amount(in): 6.56

Time(hrs)	Print Inc(min)
12.000	2.50

Name: 025Y024H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y024H.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: FDOT-24
Rainfall Amount(in): 8.64

Time(hrs)	Print Inc(min)
30.000	5.00

Name: 025Y072H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y072H.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00
Rainfall File: FDOT-72
Rainfall Amount(in): 11.00

Time(hrs)	Print Inc(min)
77.000	5.00

Name: 025Y168H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y168H.R32

Override Defaults: Yes
Storm Duration(hrs): 168.00
Rainfall File: FDOT-168
Rainfall Amount(in): 13.00

Time(hrs)	Print Inc(min)
173.000	5.00

Name: 025Y240H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y240H.R32

Override Defaults: Yes
Storm Duration(hrs): 240.00
Rainfall File: FDOT-240
Rainfall Amount(in): 15.00

Time(hrs)	Print Inc(min)
245.000	5.00

```
---------------------------------------------------------------------------------------------------
         Name: 050Y001H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y001H.R32

      Override Defaults: Yes
    Storm Duration(hrs): 1.00
          Rainfall File: FDOT-1
    Rainfall Amount(in): 4.00

Time(hrs)        Print Inc(min)
---------------- ---------------
2.000            2.50

---------------------------------------------------------------------------------------------------
         Name: 050Y002H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y002H.R32

      Override Defaults: Yes
    Storm Duration(hrs): 2.00
          Rainfall File: FDOT-2
    Rainfall Amount(in): 4.90

Time(hrs)        Print Inc(min)
---------------- ---------------
4.000            2.50

---------------------------------------------------------------------------------------------------
         Name: 050Y004H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y004H.R32

      Override Defaults: Yes
    Storm Duration(hrs): 4.00
          Rainfall File: FDOT-4
    Rainfall Amount(in): 6.00

Time(hrs)        Print Inc(min)
---------------- ---------------
6.000            2.50

---------------------------------------------------------------------------------------------------
         Name: 050Y008H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y008H.R32

      Override Defaults: Yes
    Storm Duration(hrs): 8.00
          Rainfall File: FDOT-8
    Rainfall Amount(in): 7.25

Time(hrs)        Print Inc(min)
---------------- ---------------
12.000           2.50

---------------------------------------------------------------------------------------------------
         Name: 050Y024H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y024H.R32

      Override Defaults: Yes
    Storm Duration(hrs): 24.00
          Rainfall File: FDOT-24
    Rainfall Amount(in): 9.80

Time(hrs)        Print Inc(min)
---------------- ---------------
30.000           5.00

---------------------------------------------------------------------------------------------------
         Name: 050Y072H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y072H.R32

      Override Defaults: Yes
    Storm Duration(hrs): 72.00
          Rainfall File: FDOT-72
    Rainfall Amount(in): 12.30

Time(hrs)        Print Inc(min)
---------------- ---------------
77.000           5.00

---------------------------------------------------------------------------------------------------
         Name: 050Y168H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y168H.R32

      Override Defaults: Yes
    Storm Duration(hrs): 168.00
          Rainfall File: FDOT-168
    Rainfall Amount(in): 14.45

Time(hrs)        Print Inc(min)
---------------- ---------------
```

173.000 5.00

Name: 050Y240H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y240H.R32

Override Defaults: Yes
Storm Duration(hrs): 240.00
Rainfall File: FDOT-240
Rainfall Amount(in): 16.40

Time(hrs)	Print Inc(min)
245.000	5.00

Name: 100Y001H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y001H.R32

Override Defaults: Yes
Storm Duration(hrs): 1.00
Rainfall File: FDOT-1
Rainfall Amount(in): 4.40

Time(hrs)	Print Inc(min)
2.000	2.50

Name: 100Y002H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y002H.R32

Override Defaults: Yes
Storm Duration(hrs): 2.00
Rainfall File: FDOT-2
Rainfall Amount(in): 5.40

Time(hrs)	Print Inc(min)
4.000	2.50

Name: 100Y004H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y004H.R32

Override Defaults: Yes
Storm Duration(hrs): 4.00
Rainfall File: FDOT-4
Rainfall Amount(in): 6.72

Time(hrs)	Print Inc(min)
6.000	2.50

Name: 100Y008H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y008H.R32

Override Defaults: Yes
Storm Duration(hrs): 8.00
Rainfall File: FDOT-8
Rainfall Amount(in): 8.00

Time(hrs)	Print Inc(min)
12.000	2.50

Name: 100Y024H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y024H.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: FDOT-24
Rainfall Amount(in): 11.04

Time(hrs)	Print Inc(min)
30.000	5.00

Name: 100Y072H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y072H.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00
Rainfall File: FDOT-72
Rainfall Amount(in): 13.80

Time(hrs)	Print Inc(min)

77.000	5.00

Name: 100Y168H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y168H.R32

Override Defaults: Yes
Storm Duration(hrs): 168.00
Rainfall File: FDOT-168
Rainfall Amount(in): 16.00

Time(hrs)	Print Inc(min)
173.000	5.00

Name: 100Y240H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y240H.R32

Override Defaults: Yes
Storm Duration(hrs): 240.00
Rainfall File: FDOT-240
Rainfall Amount(in): 18.00

Time(hrs)	Print Inc(min)
245.000	5.00

==== Routing Simulations ====

Name: 002Y001H Hydrology Sim: 002Y001H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y001H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 2.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

002 yr / 001 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 002Y002H Hydrology Sim: 002Y002H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y002H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 4.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

002 yr / 002 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 002Y004H Hydrology Sim: 002Y004H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y004H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 6.00

```
     Min Calc Time(sec): 0.2500              Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:

002 yr / 004 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------------
         Name: 002Y008H             Hydrology Sim: 002Y008H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y008H.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 12.00
     Min Calc Time(sec): 0.2500              Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:

002 yr / 008 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------------
         Name: 002Y024H             Hydrology Sim: 002Y024H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y024H.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 30.00
     Min Calc Time(sec): 0.2500              Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:

002 yr / 024 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------------
         Name: 002Y072H             Hydrology Sim: 002Y072H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y072H.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 77.00
     Min Calc Time(sec): 0.2500              Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:

002 yr / 072 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------------
         Name: 002Y168H             Hydrology Sim: 002Y168H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y168H.I32
```

```
      Execute: Yes          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                     Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                     End Time(hrs): 173.00
     Min Calc Time(sec): 0.2500                Max Calc Time(sec): 60.0000
        Boundary Stages:                          Boundary Flows:

002 yr / 168 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------------
         Name: 002Y240H            Hydrology Sim: 002Y240H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\002Y240H.I32

      Execute: Yes          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                     Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                     End Time(hrs): 245.00
     Min Calc Time(sec): 0.2500                Max Calc Time(sec): 60.0000
        Boundary Stages:                          Boundary Flows:

002 yr / 240 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------------
         Name: 005Y001H            Hydrology Sim: 005Y001H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y001H.I32

      Execute: Yes          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                     Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                     End Time(hrs): 2.00
     Min Calc Time(sec): 0.2500                Max Calc Time(sec): 60.0000
        Boundary Stages:                          Boundary Flows:

005 yr / 001 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------------
         Name: 005Y002H            Hydrology Sim: 005Y002H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y002H.I32

      Execute: Yes          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                     Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                     End Time(hrs): 4.00
     Min Calc Time(sec): 0.2500                Max Calc Time(sec): 60.0000
        Boundary Stages:                          Boundary Flows:

005 yr / 002 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes
```

```
         Name: 005Y004H            Hydrology Sim: 005Y004H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y004H.I32

      Execute: Yes         Restart: No           Patch: No
  Alternative: No

       Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                    End Time(hrs): 6.00
     Min Calc Time(sec): 0.2500              Max Calc Time(sec): 60.0000
       Boundary Stages:                        Boundary Flows:

005 yr / 004 hr

Time(hrs)       Print Inc(min)
--------------- ---------------
999.000         5.000

Group           Run
--------------- -----
BASE            Yes
```

```
         Name: 005Y008H            Hydrology Sim: 005Y008H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y008H.I32

      Execute: Yes         Restart: No           Patch: No
  Alternative: No

       Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                    End Time(hrs): 12.00
     Min Calc Time(sec): 0.2500              Max Calc Time(sec): 60.0000
       Boundary Stages:                        Boundary Flows:

005 yr / 008 hr

Time(hrs)       Print Inc(min)
--------------- ---------------
999.000         5.000

Group           Run
--------------- -----
BASE            Yes
```

```
         Name: 005Y024H            Hydrology Sim: 005Y024H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y024H.I32

      Execute: Yes         Restart: No           Patch: No
  Alternative: No

       Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                    End Time(hrs): 30.00
     Min Calc Time(sec): 0.2500              Max Calc Time(sec): 60.0000
       Boundary Stages:                        Boundary Flows:

005 yr / 024 hr

Time(hrs)       Print Inc(min)
--------------- ---------------
999.000         5.000

Group           Run
--------------- -----
BASE            Yes
```

```
         Name: 005Y072H            Hydrology Sim: 005Y072H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y072H.I32

      Execute: Yes         Restart: No           Patch: No
  Alternative: No

       Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                    End Time(hrs): 77.00
     Min Calc Time(sec): 0.2500              Max Calc Time(sec): 60.0000
       Boundary Stages:                        Boundary Flows:

005 yr / 072 hr

Time(hrs)       Print Inc(min)
```

999.000	5.000

Group	Run
BASE	Yes

Name: 005Y168H Hydrology Sim: 005Y168H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y168H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 173.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

005 yr / 168 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 005Y240H Hydrology Sim: 005Y240H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\005Y240H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 245.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

005 yr / 240 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 010Y001H Hydrology Sim: 010Y001H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y001H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 2.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

010 yr / 001 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 010Y002H Hydrology Sim: 010Y002H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y002H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 4.00

```
     Min Calc Time(sec): 0.2500              Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:

010 yr / 002 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------------
         Name: 010Y004H            Hydrology Sim: 010Y004H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y004H.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 6.00
     Min Calc Time(sec): 0.2500              Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:

010 yr / 004 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------------
         Name: 010Y008H            Hydrology Sim: 010Y008H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y008H.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 12.00
     Min Calc Time(sec): 0.2500              Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:

010 yr / 008 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------------
         Name: 010Y024H            Hydrology Sim: 010Y024H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y024H.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 30.00
     Min Calc Time(sec): 0.2500              Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:

010 yr / 024 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------------
         Name: 010Y072H            Hydrology Sim: 010Y072H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y072H.I32
```

```
      Execute: Yes          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                     Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                      End Time(hrs): 77.00
     Min Calc Time(sec): 0.2500                Max Calc Time(sec): 60.0000
       Boundary Stages:                            Boundary Flows:

010 yr / 072 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------------
         Name: 010Y168H            Hydrology Sim: 010Y168H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y168H.I32

      Execute: Yes          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                     Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                      End Time(hrs): 173.00
     Min Calc Time(sec): 0.2500                Max Calc Time(sec): 60.0000
       Boundary Stages:                            Boundary Flows:

010 yr / 168 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------------
         Name: 010Y240H            Hydrology Sim: 010Y240H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\010Y240H.I32

      Execute: Yes          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                     Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                      End Time(hrs): 245.00
     Min Calc Time(sec): 0.2500                Max Calc Time(sec): 60.0000
       Boundary Stages:                            Boundary Flows:

010 yr / 240 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------------
         Name: 025Y001H            Hydrology Sim: 025Y001H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y001H.I32

      Execute: Yes          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                     Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                      End Time(hrs): 2.00
     Min Calc Time(sec): 0.2500                Max Calc Time(sec): 60.0000
       Boundary Stages:                            Boundary Flows:

025 yr / 001 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes
```

```
--------------------------------------------------------------------------------------------------
         Name: 025Y002H            Hydrology Sim: 025Y002H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y002H.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

       Max Delta Z(ft): 1.00                     Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                     End Time(hrs): 4.00
     Min Calc Time(sec): 0.2500               Max Calc Time(sec): 60.0000
       Boundary Stages:                          Boundary Flows:

025 yr / 002 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


--------------------------------------------------------------------------------------------------
         Name: 025Y004H            Hydrology Sim: 025Y004H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y004H.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

       Max Delta Z(ft): 1.00                     Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                     End Time(hrs): 6.00
     Min Calc Time(sec): 0.2500               Max Calc Time(sec): 60.0000
       Boundary Stages:                          Boundary Flows:

025 yr / 004 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


--------------------------------------------------------------------------------------------------
         Name: 025Y008H            Hydrology Sim: 025Y008H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y008H.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

       Max Delta Z(ft): 1.00                     Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                     End Time(hrs): 12.00
     Min Calc Time(sec): 0.2500               Max Calc Time(sec): 60.0000
       Boundary Stages:                          Boundary Flows:

025 yr / 008 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


--------------------------------------------------------------------------------------------------
         Name: 025Y024H            Hydrology Sim: 025Y024H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y024H.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

       Max Delta Z(ft): 1.00                     Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                     End Time(hrs): 30.00
     Min Calc Time(sec): 0.2500               Max Calc Time(sec): 60.0000
       Boundary Stages:                          Boundary Flows:

025 yr / 024 hr

Time(hrs)        Print Inc(min)
```

999.000	5.000

Group	Run
BASE	Yes

Name: 025Y072H Hydrology Sim: 025Y072H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y072H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 77.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

025 yr / 072 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 025Y168H Hydrology Sim: 025Y168H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y168H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 173.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

025 yr / 168 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 025Y240H Hydrology Sim: 025Y240H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\025Y240H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 245.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

025 yr / 240 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 050Y001H Hydrology Sim: 050Y001H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y001H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 2.00

```
     Min Calc Time(sec): 0.2500              Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:

050 yr / 001 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------------
         Name: 050Y002H            Hydrology Sim: 050Y002H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y002H.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

       Max Delta Z(ft): 1.00                     Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 4.00
     Min Calc Time(sec): 0.2500              Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:

050 yr / 002 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------------
         Name: 050Y004H            Hydrology Sim: 050Y004H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y004H.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

       Max Delta Z(ft): 1.00                     Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 6.00
     Min Calc Time(sec): 0.2500              Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:

050 yr / 004 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------------
         Name: 050Y008H            Hydrology Sim: 050Y008H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y008H.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

       Max Delta Z(ft): 1.00                     Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 12.00
     Min Calc Time(sec): 0.2500              Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:

050 yr / 008 hr

Time(hrs)        Print Inc(min)
---------------- ---------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------------
         Name: 050Y024H            Hydrology Sim: 050Y024H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y024H.I32
```

```
      Execute: Yes          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                     Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                     End Time(hrs): 30.00
     Min Calc Time(sec): 0.2500                Max Calc Time(sec): 60.0000
        Boundary Stages:                          Boundary Flows:

050 yr / 024 hr

Time(hrs)        Print Inc(min)
---------------- ----------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------------
         Name: 050Y072H            Hydrology Sim: 050Y072H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y072H.I32

      Execute: Yes          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                     Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                     End Time(hrs): 77.00
     Min Calc Time(sec): 0.2500                Max Calc Time(sec): 60.0000
        Boundary Stages:                          Boundary Flows:

050 yr / 072 hr

Time(hrs)        Print Inc(min)
---------------- ----------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------------
         Name: 050Y168H            Hydrology Sim: 050Y168H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y168H.I32

      Execute: Yes          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                     Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                     End Time(hrs): 173.00
     Min Calc Time(sec): 0.2500                Max Calc Time(sec): 60.0000
        Boundary Stages:                          Boundary Flows:

050 yr / 168 hr

Time(hrs)        Print Inc(min)
---------------- ----------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes


-------------------------------------------------------------------------------------------------------
         Name: 050Y240H            Hydrology Sim: 050Y240H
     Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\050Y240H.I32

      Execute: Yes          Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                     Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                     End Time(hrs): 245.00
     Min Calc Time(sec): 0.2500                Max Calc Time(sec): 60.0000
        Boundary Stages:                          Boundary Flows:

050 yr / 240 hr

Time(hrs)        Print Inc(min)
---------------- ----------------
999.000          5.000

Group            Run
---------------- -----
BASE             Yes
```

```
--------------------------------------------------------------------------------------------------------
        Name: 100Y001H            Hydrology Sim: 100Y001H
    Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y001H.I32

     Execute: Yes         Restart: No            Patch: No
 Alternative: No

       Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
   Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                    End Time(hrs): 2.00
    Min Calc Time(sec): 0.2500               Max Calc Time(sec): 60.0000
       Boundary Stages:                          Boundary Flows:

100 yr / 001 hr

Time(hrs)       Print Inc(min)
--------------- ---------------
999.000         5.000

Group           Run
--------------- -----
BASE            Yes


--------------------------------------------------------------------------------------------------------
        Name: 100Y002H            Hydrology Sim: 100Y002H
    Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y002H.I32

     Execute: Yes         Restart: No            Patch: No
 Alternative: No

       Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
   Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                    End Time(hrs): 4.00
    Min Calc Time(sec): 0.2500               Max Calc Time(sec): 60.0000
       Boundary Stages:                          Boundary Flows:

100 yr / 002 hr

Time(hrs)       Print Inc(min)
--------------- ---------------
999.000         5.000

Group           Run
--------------- -----
BASE            Yes


--------------------------------------------------------------------------------------------------------
        Name: 100Y004H            Hydrology Sim: 100Y004H
    Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y004H.I32

     Execute: Yes         Restart: No            Patch: No
 Alternative: No

       Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
   Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                    End Time(hrs): 6.00
    Min Calc Time(sec): 0.2500               Max Calc Time(sec): 60.0000
       Boundary Stages:                          Boundary Flows:

100 yr / 004 hr

Time(hrs)       Print Inc(min)
--------------- ---------------
999.000         5.000

Group           Run
--------------- -----
BASE            Yes


--------------------------------------------------------------------------------------------------------
        Name: 100Y008H            Hydrology Sim: 100Y008H
    Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y008H.I32

     Execute: Yes         Restart: No            Patch: No
 Alternative: No

       Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
   Time Step Optimizer: 10.000
       Start Time(hrs): 0.000                    End Time(hrs): 12.00
    Min Calc Time(sec): 0.2500               Max Calc Time(sec): 60.0000
       Boundary Stages:                          Boundary Flows:

100 yr / 008 hr

Time(hrs)       Print Inc(min)
```

999.000	5.000

Group	Run
BASE	Yes

Name: 100Y024H Hydrology Sim: 100Y024H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y024H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 30.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

100 yr / 024 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 100Y072H Hydrology Sim: 100Y072H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y072H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 77.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

100 yr / 072 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 100Y168H Hydrology Sim: 100Y168H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y168H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 173.00
Min Calc Time(sec): 0.2500 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

100 yr / 168 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

Name: 100Y240H Hydrology Sim: 100Y240H
Filename: Y:\Letter Files\2014\14-110\FDOT\DRAINAGE\Calculations\ICPR\Percolation\100Y240H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 245.00

Min Calc Time(sec): 0.2500
Boundary Stages:

Max Calc Time(sec): 60.0000
Boundary Flows:

100 yr / 240 hr

Time(hrs)	Print Inc(min)
999.000	5.000

Group	Run
BASE	Yes

LOW TAILWATER

LTW Link Min Max Report

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
Control Structu	BASE	002Y001H	0.00	0.000	0.000	1.16	71.182	2.01	66.626
Percolation	BASE	002Y001H	1.16	0.122	0.011	1.16	71.182	0.00	0.000
Control Structu	BASE	002Y002H	2.04	0.409	-0.010	2.04	71.382	4.01	67.001
Percolation	BASE	002Y002H	2.04	0.132	0.015	2.04	71.382	0.00	0.000
Control Structu	BASE	002Y004H	3.18	0.755	0.014	3.18	71.472	5.99	67.374
Percolation	BASE	002Y004H	3.18	0.136	0.012	3.18	71.472	0.00	0.000
Control Structu	BASE	002Y008H	5.10	0.724	0.013	5.10	71.454	8.00	67.750
Percolation	BASE	002Y008H	5.10	0.135	0.014	5.10	71.454	0.00	0.000
Control Structu	BASE	002Y024H	16.13	0.238	0.004	16.13	71.342	8.00	67.750
Percolation	BASE	002Y024H	16.13	0.130	0.005	16.13	71.342	0.00	0.000
Control Structu	BASE	002Y072H	64.00	0.193	0.005	64.00	71.330	8.00	67.750
Percolation	BASE	002Y072H	64.00	0.129	0.006	64.00	71.330	0.00	0.000
Control Structu	BASE	002Y168H	160.01	0.356	-0.006	160.01	71.370	8.00	67.750
Percolation	BASE	002Y168H	40.20	0.083	0.002	160.01	71.370	0.00	0.000
Control Structu	BASE	002Y240H	184.10	0.355	0.006	184.10	71.370	8.00	67.750
Percolation	BASE	002Y240H	40.23	0.087	-0.014	184.10	71.370	0.00	0.000
Control Structu	BASE	005Y001H	1.02	0.816	-0.015	1.02	71.509	2.00	66.625
Percolation	BASE	005Y001H	1.02	0.138	0.021	1.02	71.509	0.00	0.000
Control Structu	BASE	005Y002H	1.82	0.952	-0.023	1.82	71.602	4.00	67.001
Percolation	BASE	005Y002H	1.82	0.142	0.011	1.82	71.602	0.00	0.000
Control Structu	BASE	005Y004H	3.15	1.173	-0.019	3.15	71.785	6.00	67.375
Percolation	BASE	005Y004H	3.15	0.151	0.012	3.15	71.785	0.00	0.000
Control Structu	BASE	005Y008H	5.09	0.988	0.013	5.09	71.629	8.01	67.749
Percolation	BASE	005Y008H	5.09	0.144	0.014	5.09	71.629	0.00	0.000
Control Structu	BASE	005Y024H	13.11	0.620	0.013	13.11	71.424	8.00	67.750
Percolation	BASE	005Y024H	13.11	0.134	0.008	13.11	71.424	0.00	0.000
Control Structu	BASE	005Y072H	60.00	0.584	0.008	60.00	71.417	8.00	67.750
Percolation	BASE	005Y072H	60.00	0.133	0.006	60.00	71.417	0.00	0.000
Control Structu	BASE	005Y168H	159.96	0.543	-0.009	159.96	71.409	8.00	67.750
Percolation	BASE	005Y168H	40.21	0.100	0.004	159.96	71.409	0.00	0.000
Control Structu	BASE	005Y240H	183.99	0.667	-0.012	183.99	71.433	8.00	67.750
Percolation	BASE	005Y240H	40.26	0.102	-0.007	183.99	71.433	0.00	0.000
Control Structu	BASE	010Y001H	1.00	1.057	-0.015	1.00	71.684	2.00	66.626
Percolation	BASE	010Y001H	1.00	0.146	0.015	1.00	71.684	0.00	0.000
Control Structu	BASE	010Y002H	1.76	1.141	-0.019	1.76	71.756	4.00	67.000
Percolation	BASE	010Y002H	1.76	0.150	0.015	1.76	71.756	0.00	0.000
Control Structu	BASE	010Y004H	3.15	1.446	-0.018	3.15	72.063	6.00	67.375
Percolation	BASE	010Y004H	3.15	0.167	0.015	3.15	72.063	0.00	0.000
Control Structu	BASE	010Y008H	5.08	1.490	-0.023	5.08	72.113	8.00	67.749
Percolation	BASE	010Y008H	5.08	0.172	0.011	5.08	72.113	0.00	0.000
Control Structu	BASE	010Y024H	12.24	1.048	0.014	12.24	71.677	8.00	67.750
Percolation	BASE	010Y024H	12.24	0.146	0.012	12.24	71.677	0.00	0.000
Control Structu	BASE	010Y072H	60.02	0.762	0.011	60.02	71.476	8.00	67.750
Percolation	BASE	010Y072H	60.02	0.136	0.007	60.02	71.476	0.00	0.000
Control Structu	BASE	010Y168H	159.95	0.638	-0.011	159.95	71.428	8.00	67.750
Percolation	BASE	010Y168H	40.23	0.109	0.005	159.95	71.428	0.00	0.000
Control Structu	BASE	010Y240H	184.01	0.841	-0.016	184.01	71.525	8.00	67.750
Percolation	BASE	010Y240H	40.30	0.117	0.002	184.01	71.525	0.00	0.000
Control Structu	BASE	025Y001H	1.00	1.272	0.014	1.00	71.879	2.00	66.625
Percolation	BASE	025Y001H	1.00	0.156	0.007	1.00	71.879	0.00	0.000
Control Structu	BASE	025Y002H	1.74	1.382	0.018	1.74	71.992	4.00	66.999
Percolation	BASE	025Y002H	1.74	0.161	0.020	1.74	71.992	0.00	0.000
Control Structu	BASE	025Y004H	3.15	1.581	0.018	3.15	72.222	6.00	67.375
Percolation	BASE	025Y004H	3.15	0.182	0.012	3.15	72.222	0.00	0.000
Control Structu	BASE	025Y008H	5.08	1.654	-0.019	5.08	72.313	8.00	67.749
Percolation	BASE	025Y008H	5.08	0.191	0.010	5.08	72.313	0.00	0.000
Control Structu	BASE	025Y024H	12.28	1.137	0.012	12.28	71.752	8.01	67.749
Percolation	BASE	025Y024H	12.28	0.149	0.011	12.28	71.752	0.00	0.000
Control Structu	BASE	025Y072H	60.04	0.931	0.015	60.04	71.587	8.00	67.750
Percolation	BASE	025Y072H	60.04	0.142	0.003	60.04	71.587	0.00	0.000
Control Structu	BASE	025Y168H	160.00	0.759	-0.016	160.00	71.474	8.00	67.750
Percolation	BASE	025Y168H	72.05	0.124	0.005	160.00	71.474	0.00	0.000
Control Structu	BASE	025Y240H	184.01	1.019	0.016	184.01	71.653	8.00	67.750
Percolation	BASE	025Y240H	40.11	0.130	0.003	184.01	71.653	0.00	0.000
Control Structu	BASE	050Y001H	1.00	1.448	0.017	1.00	72.065	2.00	66.626
Percolation	BASE	050Y001H	1.00	0.167	0.010	1.00	72.065	0.00	0.000
Control Structu	BASE	050Y002H	1.74	1.548	0.022	1.74	72.182	4.00	67.000
Percolation	BASE	050Y002H	1.74	0.178	0.021	1.74	72.182	0.00	0.000
Control Structu	BASE	050Y004H	3.15	1.755	0.021	3.15	72.447	6.00	67.375
Percolation	BASE	050Y004H	3.15	0.203	0.011	3.15	72.447	0.00	0.000
Control Structu	BASE	050Y008H	5.08	1.791	0.021	5.08	72.496	8.00	67.750
Percolation	BASE	050Y008H	5.08	0.208	0.009	5.08	72.496	0.00	0.000
Control Structu	BASE	050Y024H	13.01	1.269	0.013	13.01	71.876	8.00	67.750
Percolation	BASE	050Y024H	13.01	0.155	0.010	13.01	71.876	0.00	0.000
Control Structu	BASE	050Y072H	60.05	1.029	0.017	60.05	71.661	8.00	67.750
Percolation	BASE	050Y072H	60.05	0.145	0.004	60.05	71.661	0.00	0.000
Control Structu	BASE	050Y168H	160.00	0.845	-0.016	160.00	71.528	8.00	67.750
Percolation	BASE	050Y168H	40.11	0.130	0.005	160.00	71.528	0.00	0.000
Control Structu	BASE	050Y240H	184.01	1.112	0.017	184.01	71.730	8.00	67.750
Percolation	BASE	050Y240H	40.04	0.132	0.003	184.01	71.730	0.00	0.000
Control Structu	BASE	100Y001H	1.00	1.595	0.016	1.00	72.238	2.00	66.626
Percolation	BASE	100Y001H	1.00	0.184	0.015	1.00	72.238	0.00	0.000
Control Structu	BASE	100Y002H	1.74	1.689	0.023	1.74	72.359	4.00	67.000
Percolation	BASE	100Y002H	1.74	0.195	0.013	1.74	72.359	0.00	0.000
Control Structu	BASE	100Y004H	3.15	1.903	0.023	3.15	72.657	6.00	67.375
Percolation	BASE	100Y004H	3.15	0.223	0.014	3.15	72.657	0.00	0.000
Control Structu	BASE	100Y008H	5.09	1.922	0.022	5.09	72.685	8.00	67.750

LTW Link Min Max Report

Name	Group	Simulation	Max Time Flow hrs	Max Flow cfs	Max Delta Q cfs	Max Time US Stage hrs	Max US Stage ft	Max Time DS Stage hrs	Max DS Stage ft
Percolation	BASE	100Y008H	5.09	0.225	0.012	5.09	72.685	0.00	0.000
Control Structu	BASE	100Y024H	13.05	1.407	0.014	13.05	72.020	8.01	67.749
Percolation	BASE	100Y024H	13.05	0.163	0.009	13.05	72.020	0.00	0.000
Control Structu	BASE	100Y072H	60.07	1.136	0.020	60.07	71.751	8.00	67.750
Percolation	BASE	100Y072H	60.07	0.149	0.004	60.07	71.751	0.00	0.000
Control Structu	BASE	100Y168H	160.00	0.935	-0.015	160.00	71.590	8.00	67.750
Percolation	BASE	100Y168H	40.01	0.132	0.006	160.00	71.590	0.00	0.000
Control Structu	BASE	100Y240H	184.01	1.213	0.019	184.01	71.822	8.00	67.750
Percolation	BASE	100Y240H	40.01	0.133	0.003	184.01	71.822	0.00	0.000

US 441 FD & AZ - Summary Sheet of Post Development ICPR Results - Q (CFS)

010 YR - 24 HR MAX FLOW: 1.048 010 YR - 72 HR MAX FLOW: .762

025 YR - 24 HR MAX FLOW: 1.137 025 YR - 72 HR MAX FLOW: .931

100 YR - 24 HR MAX FLOW: 1.407 100 YR - 72 HR MAX FLOW: 1.136

CRITICAL STORM: 100 YR - 24 HR MAX FLOW: 1.922 < PREDEVELOPMENT Q= 2.09

HIGH TAILWATER

HTW Node Min Max Report

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs
FD & AZ Site	BASE	002Y001H	1.16	71.182	78.000	0.0050	10555	0.58	8.802	1.16
FD & AZ Site	BASE	002Y002H	2.04	71.382	78.000	0.0050	11381	0.79	6.502	2.04
FD & AZ Site	BASE	002Y004H	3.18	71.472	78.000	0.0050	11753	2.00	3.246	3.18
FD & AZ Site	BASE	002Y008H	5.10	71.454	78.000	0.0050	11678	4.00	3.011	5.10
FD & AZ Site	BASE	002Y024H	16.13	71.342	78.000	0.0049	11216	12.00	0.817	16.13
FD & AZ Site	BASE	002Y072H	64.00	71.330	78.000	0.0037	11167	59.91	0.567	64.00
FD & AZ Site	BASE	002Y168H	160.01	71.370	78.000	0.0029	11333	159.91	0.429	160.01
FD & AZ Site	BASE	002Y240H	184.10	71.370	78.000	0.0049	11332	183.91	0.539	184.10
FD & AZ Site	BASE	005Y001H	1.02	71.509	78.000	0.0050	11906	0.58	11.369	1.02
FD & AZ Site	BASE	005Y002H	1.82	71.602	78.000	0.0050	12293	0.79	8.303	1.82
FD & AZ Site	BASE	005Y004H	3.15	71.785	78.000	0.0050	13049	2.00	4.243	3.15
FD & AZ Site	BASE	005Y008H	5.09	71.629	78.000	0.0050	12405	4.00	3.634	5.09
FD & AZ Site	BASE	005Y024H	13.11	71.424	78.000	0.0050	11556	11.99	1.134	13.11
FD & AZ Site	BASE	005Y072H	60.00	71.417	78.000	0.0045	11528	59.91	0.723	60.00
FD & AZ Site	BASE	005Y168H	159.96	71.409	78.000	0.0032	11495	159.91	0.584	159.93
FD & AZ Site	BASE	005Y240H	183.99	71.433	78.000	0.0049	11592	183.91	0.720	183.99
FD & AZ Site	BASE	010Y001H	1.00	71.684	78.000	0.0050	12631	0.58	12.864	1.00
FD & AZ Site	BASE	010Y002H	1.76	71.756	78.000	0.0050	12929	0.79	9.329	1.76
FD & AZ Site	BASE	010Y004H	3.15	72.063	78.000	0.0050	14447	2.00	5.127	3.15
FD & AZ Site	BASE	010Y008H	5.08	72.113	78.000	0.0050	14850	4.00	5.090	5.08
FD & AZ Site	BASE	010Y024H	12.24	71.677	78.000	0.0050	12602	11.99	1.645	12.24
FD & AZ Site	BASE	010Y072H	60.02	71.476	78.000	0.0050	11770	59.91	0.921	60.02
FD & AZ Site	BASE	010Y168H	159.95	71.428	78.000	0.0034	11570	159.91	0.676	159.91
FD & AZ Site	BASE	010Y240H	184.01	71.525	78.000	0.0050	11972	183.91	0.900	184.01
FD & AZ Site	BASE	025Y001H	1.00	71.879	78.000	0.0050	13437	0.58	14.572	1.00
FD & AZ Site	BASE	025Y002H	1.74	71.992	78.000	0.0050	13908	0.79	10.867	1.74
FD & AZ Site	BASE	025Y004H	3.15	72.222	78.000	0.0050	15729	2.00	5.656	3.15
FD & AZ Site	BASE	025Y008H	5.08	72.313	78.000	0.0050	16465	4.00	5.727	5.08
FD & AZ Site	BASE	025Y024H	12.28	71.752	78.000	0.0050	12913	11.98	1.796	12.28
FD & AZ Site	BASE	025Y072H	60.04	71.587	78.000	0.0050	12229	59.90	1.140	60.04
FD & AZ Site	BASE	025Y168H	160.00	71.474	78.000	0.0036	11763	159.91	0.799	160.00
FD & AZ Site	BASE	025Y240H	184.01	71.653	78.000	0.0050	12504	183.91	1.081	184.01
FD & AZ Site	BASE	050Y001H	1.00	72.065	78.000	0.0050	14465	0.54	16.287	1.00
FD & AZ Site	BASE	050Y002H	1.74	72.182	78.000	0.0050	15405	0.79	12.145	1.74
FD & AZ Site	BASE	050Y004H	3.15	72.447	78.000	0.0050	17539	2.00	6.448	3.15
FD & AZ Site	BASE	050Y008H	5.08	72.496	78.000	0.0050	17938	4.00	6.338	5.08
FD & AZ Site	BASE	050Y024H	13.01	71.876	78.000	0.0049	13425	11.99	2.040	13.01
FD & AZ Site	BASE	050Y072H	60.05	71.661	78.000	0.0049	12538	59.90	1.275	60.05
FD & AZ Site	BASE	050Y168H	160.00	71.528	78.000	0.0038	11984	159.91	0.889	160.00
FD & AZ Site	BASE	050Y240H	184.01	71.730	78.000	0.0050	12823	183.91	1.182	184.01
FD & AZ Site	BASE	100Y001H	1.00	72.238	78.000	0.0050	15861	0.54	18.010	1.00
FD & AZ Site	BASE	100Y002H	1.74	72.359	78.000	0.0050	16835	0.79	13.421	1.74
FD & AZ Site	BASE	100Y004H	3.15	72.657	78.000	0.0050	19235	2.00	7.239	3.15
FD & AZ Site	BASE	100Y008H	5.09	72.685	78.000	0.0050	19462	4.00	7.000	5.09
FD & AZ Site	BASE	100Y024H	13.05	72.020	78.000	0.0050	14099	11.99	2.301	13.05
FD & AZ Site	BASE	100Y072H	60.07	71.751	78.000	0.0050	12910	59.91	1.430	60.07
FD & AZ Site	BASE	100Y168H	160.00	71.590	78.000	0.0040	12241	159.91	0.984	160.00
FD & AZ Site	BASE	100Y240H	184.01	71.822	78.000	0.0049	13201	183.91	1.297	184.01

US 441 FD & AZ - Summary Sheet of Post Development ICPR Results - STAGE (FT)

010 YR - 24 HR MAX STAGE: 71.677 010 YR - 72 HR MAX STAGE: 71.476

025 YR - 24 HR MAX STAGE: 71.752 025 YR - 72 HR MAX STAGE: 71.587

100 YR - 24 HR MAX STAGE: 72.020 100 YR - 72 HR MAX STAGE: 71.752

CRITICAL STORM: 100 YR - 8 HR MAX STAGE: 72.685

MAASTRICHT ENGINEERING

September 9, 2014

The City of Alachua
Kathy Winburn, AICP
Planning and Community Development
15100 NW 142nd Terrace
Alachua, Florida 32615

Completeness Review Comments

RE: **Family Dollar/AutoZone - Site Plan**

Dear Ms. Winburn,

The following is our response to staffs completeness review comments for above referenced project:

Site Plan Attachment #1

Site Plan including but not limited to:
D. Complete Legal Description (Incorporate boundary and topographic survey into site plan sheets).
E. Statement of Proposed Use.
H. Area and dimensions of site (Incorporate boundary and topographic survey into site plan sheets).
J. Structures and major features - fully dimensioned - including setbacks, distances between structures, floor area, width of driveways, parking spaces, property or lot lines, and floor area ratio.

Action Needed to Address Deficiency: A complete legal description (with tax parcel number) must be provided on the site plan. A statement of proposed use must be provided on the site plan. The site plan m must contain the area and dimensions of the subject property. The floor area ratio must be shown in the development data on the site plan. Further, the applicant has not provided the appropriate development data for Family Dollar or AutoZone. Development data must for each individual lot and must include: Total Area (sq. ft. & acreage). Total Impervious Area (sq. ft. & percentage of site). Total Existing Building Area (sq. ft. & percentage of site). Total Proposed Building Area (sq. ft. & percentage of site). Total Existing Impervious Surfacing (sq. ft. & percentage of site). Total Proposed Pavement /Concrete Area (sq. ft. & percentage of site). Landscape Area (sq. ft. & percentage of site). Open Space (sq. ft. & percentage of site). And Floor Area Ratio.

Response: Please see attached revised Cover Sheet C.0.0 of the plans which include the legal description for each parcel as well as the Boundary and Topographic surveys under the Index of Sheets. Revised Cover Sheet C.0.0 also include statements of proposed use and fully dimensioned structures and major features. Development data tables for each parcel have been added as requested.

Site Plan Attachment #3

Fire Department Access and Water Supply.

Action Needed to Address Deficiency: The applicant has provided fire flow calculations for the proposed building; however, the applicant has not provided a fire plan detailing fire department access and water supply in accordance with Chapter 18 of the Florida Fire Prevention Code. The applicant must provide a fire plan detailing fire department access and water supply in accordance with Chapter 18 of the Florida Fire Prevention Code. See Site Plan Attachment #3 for requirements.

Response: Please see attached fire plan exhibit detailing fire department access and water supply as requested.

Site Plan Attachment #S(a)(7)
Safety of on-site circulation patterns.

Action Needed to Address Deficiency: The applicant must provide Auto Turn diagrams for fire trucks, waste collection vehicles, delivery vehicles (semi-truck), and customer vehicles to ensure safe on-site circulation of vehicular traffic.

Response: Please see attached truck-turn exhibits for fire trucks, waste collection vehicles and delivery vehicles for both the Family Dollar building and the AutoZone building.

Site Plan Attachment #6
For site plans for buildings less than 80.000 square feet in area: One (1) set of labels for all property owners within 400 feet of the subject property boundaries - even if the property within 400 feet falls outside of City limits - and all persons/organizations registered to receive notice of development applications.

Action Needed to Address Deficiency: Applicant has not provided mailing labels. The applicant must provide mailing labels for all property owners within 400 feet and all persons/organizations registered to receive notice of development applications.

Response: Please see attached set of labels for all property owners within 400 feet of the project and all persons/organizations registered to receive notice of development applications.

Site Plan Attachment #8
Legal description with tax parcel number.

Action Needed to Address Deficiency: Provide a document which contains the legal description of the subject property with tax parcel numbers on 8.5" by 11" paper.

Response: As discussed with reviewer, a separate 8.5" x 11" legal description document is not needed since the legal description for each of the parcels is being provided under the Cover Sheet C.0.0.

Site Plan Attachment #9
Proof of Ownership.

Action Needed to Address Deficiency: Provide a document which contains proof of ownership of the subject property (i.e. deed). While the applicant has provided notarized letters of authorization, the applicant has not provided the necessary materials to sufficiently provide proof of ownership and agent authorization. The applicant must provide proof of ownership and agent authorization (i.e. deed, articles of incorporation for any and all entities involved, full contract of purchase, etc.).

Response: Please see attached warranty deed for each property, sun-biz corporation documents for each owner, letter of authorization for each owner, and corporation documents for Hamilton Development, Inc.

Site Plan Attachment #10
Proof of payment of taxes.

Action Needed to Address Deficiency: The applicant has provided the notice of ad valorem taxes and non-ad valorem assessments from the Alachua County Tax Collector; however, the applicant has not provided proof of payment of taxes. The applicant must provide proof of payment of taxes.

Response: Please see attached proof of payment of taxes for each property obtained from the Property Appraiser's website as instructed by reviewer.

Site Plan Attachment #11
Environmental Resource Permit (or Letter of Exemption) from the Suwannee River Water Management District.

Action Needed to Address Deficiency: The applicant must provide the Planning and Community Development Department of the City of Alachua a copy of the Environmental I Resource Permit t (ERP) from SRWMD.

Response: As discussed, this project falls under the 10/2 rule therefore an ERP permit from SRWMD is not required and will not be applied for. Please see attached correspondence with Daniel Simpson, SRWMD Engineer.

Site Plan Attachment #13
If access is from a State Road, access management permit from the Florida Department of Transportation (or documentation providing evidence that a permit application has been submitted).

Action Needed to Address Deficiency: The applicant must provide the Planning and Community Development Department of the City of Alachua a copy of the access permit from the Florida Department of Transportation.

Response: As discussed, an FDOT permit application will be submitted in the next couple of weeks and a copy will be forwarded to the City of Alachua. Please see attached correspondence with Adam Doyle, FDOT Engineer and FDOT Pre-Application Meeting Sign-In sheet.

We trust this information is sufficient for you to complete your review. Please feel free to contact me should you have any questions or comments.

Sincerely,

Andres Boral
MAASTRICHT ENGINEERING, INC.

MAASTRICHT ENGINEERING

MAASTRICHT ENGINEERING

October 15, 2014

Mr. Brandon M. Stubbs
Planning Technician
City of Alachua
P.O. Box 9
Alachua, FL 32616

Response to 1st Round Comments

RE: Family Dollar/AutoZone - Site Plan

Dear Mr. Stubbs,

The following is our response to staffs first review comments for above referenced project.

Site Plan: DATE: 09/24/2014

1. Revise the Site Plan as follows:

Survey

a) The applicant has not provided curve data for curve "C1". The applicant must provide curve data for curve "C1".

Response: Please see the revised survey for the addition of curve C1 data.

Cover Sheet (Sheet C-0.0)

a) Site Data Table

The applicant states the Land Use Designation is "(C.I.) Commercial Intensive"; however, the Future Land Use Map Designation is Commercial. Revise accordingly.

Response: Please see revised construction plans for the correct designation.

b) Development Data Table (Family Dollar)

The applicant states that 5,085 square feet or 12 percent of the subject property will be landscaped. Policy 2.4.a of the Future Land Use Element of the City of Alachua Comprehensive Plan requires a minimum of 30 percent landscape area. Revise accordingly. Note: Per Article 6, Section 6.7(B) (2), "areas occupied by required landscaping... shall be counted towards the open space set-aside. "As such, the 10% open space requirement can be included in the larger 30% landscaping requirement such that at a minimum, at least 20% of the site must be landscaped and 10% must be kept in open space.

Response: Please see revised cover sheet development data table showing the required 30% minimum landscape area.

c) Development Data Table (AutoZone)

The applicant states that 10,176 square feet or 23 percent of the subject property will be landscaped. Policy 2.4.a of the Future Land Use Element of the City of Alachua Comprehensive Plan requires a minimum of 30 percent landscape area. Revise accordingly. Note: Per Article 6, Section 6.7(B)(2), "areas occupied by required landscaping ...shall be counted towards the open space set-aside. "As such, the 10% open space requirement can be included in the larger 30% landscaping requirement such that at a minimum, at least 20% of the site must be landscaped and 10% must be kept in open space.

Response: Please see revised cover sheet development data table showing the required 30% minimum landscape area.

d) Parking Requirements (Family Dollar)

The applicant states the loading zone requirement is 10' x 20'; however, the loading zone requirement is 12' x 30'. Revise accordingly.
Response: Please see revised construction plans showing a compliant loading zone.

e) Parking Requirements (AutoZone)

I. The applicant states the loading zone requirement is 10' x 20'; however, the loading zone requirement is 12' x 30'. Revise accordingly.
Response: Please see revised construction plans showing a compliant loading zone.

II. The applicant states the parking requirement for AutoZone is one (1) parking space per 305 square feet; however, the parking requirements for automotive parts sales is one (1) parking space per 400 square feet. Revise accordingly.
Response: Please see revised construction plans showing the correct parking requirements.

III. The applicant states there are thirty-one (31) parking spaces provide. Section 6.1.4(B)(5)(a) of the LDRs state that off-street automobile parking spaces shall not be provided in an amount that is more that 125 percent of the minimum requirements established in Table 6.1-1 of the LDRs. The maximum parking allowed is twenty-one (21) parking spaces (17 required parking spaces x 1.25 = 21). Revise site plan and calculation accordingly.
Response: Please see revised construction plans showing a total of 25 spaces for the AutoZone. A deviation letter for the additional 4' parking spaces is also attached.

f) Landscape Buffers (AutoZone)

The applicant states that the proposed AutoZone is adjacent to commercial to the East; however, the AutoZone is adjacent to Residential Single Family - 3 ("RSF-3") to the East. The buffer along the East side of the subject property must be a fifteen (15) foot, Type "D" buffer in accordance with Table 6.2-2 of the LDRs. Revise accordingly.
Response: Please see revised construction plans showing the correct, 15' type "D" landscape buffer.

g) Zoning
The applicant states the surrounding zoning is "C-1"; however, the surrounding zoning is "CI", except East of the proposed AutoZone which has a Residential Single Family - 3 ("RSF-3") zoning designation. Revise accordingly.
Response: Please see revised construction plans showing the correct zoning designations.

h) Solid Waste
The applicant states solid waste collection is via City of Alachua. The City of Alachua does not provide solid waste collection. Revise accordingly.
Response: Please see revised construction plans showing the correct solid waste management company.

i) Title
I. The applicant states the zoning is "C-1"; however, the zoning is "CI". Revise accordingly.
Response: Please see revised construction plans showing the correct zoning designations.

II. The applicant has left the FDOT Roadway Id. and Mile Post blank the applicant should remove the reference or correct accordingly.
Response: Please see revised cover sheet showing the correct FDOT roadway information.

j) Vicinity Map

I. The applicant states the zoning to the East of the proposed AutoZone is "C-1"; however, the zoning to the East of the proposed AutoZone is Residential Single Family - 3 ("RSF-3"). Revise accordingly.
Response: Please see revised construction plans showing the correct zoning designations.

II. Revise all references to "C-1" to "CI".
Response: Please see revised construction plans showing the correct zoning designations.

Notes (Sheet G-1.0)

a) General Utility Notes

I. The applicant makes reference to Gainesville Regional Utilities (GRU) in notes 1, 5, 13, 17, and 18; however, utilities are provided by the City of Alachua. Revise accordingly.
Response: Please see revised general notes removing all reference to Gainesville Regional Utilities.

b) Alachua County Required Notes

II. The applicant must revise the title to "City of Alachua Notes". Revise accordingly.
Response: Please see revised general notes showing the correct title.

III. The applicant must delete notes 4, 6, and 10.
Response: Please see revised general notes no longer including notes 4, 6, & 10.

c) Gainesville Regional Utility Notes

I. The applicant must revise the title to "City of Alachua Utility Notes" Revise accordingly.
Response: Please see revised general notes showing the correct title.

II. The applicant makes reference to Gainesville Regional Utilities (GRU) in notes 1, 2, and 9; however, utilities are provided by the City of Alachua. Revise accordingly.
Response: Please see revised general notes removing all reference to Gainesville Regional Utilities.

III. The applicant must delete notes 4, 5, and 7.
Response: Please see revised general notes no longer including notes 4, 5, & 7.

Aerial & Erosion Control Plan (Sheet C-3.0)

a) Note (Below Erosion Control Notes)

I. The applicant has a note regarding Alachua County engineering design. This note shall be revised to state, "Note: Contractor shall adhere to the environmental protection standards established in Section 6.9 of the City of Alachua Land Development Regulations." Revise accordingly.
Response: Please see revised erosion control plan for the addition of said note.

b) The applicant has not provided the right-of-way width for U.S. Highway 441 and N .W. 144th Street. Applicant must provide the right-of-way width for U.S. Highway 441 and N.W. 144th Street.

Response: Please see revised construction plans showing the correct right-of-way width for N.W. 144th Street, the ROW width for US 441 could not be determined.

c) The applicant states the zoning to the East of the proposed AutoZone is "C- 1"; however, the zoning to the East of the proposed AutoZone is Residential Single Family - 3 ("RSF-3"). Revise accordingly.

Response: Please see revised construction plans showing the correct zoning designations.

d) Revise all references to "C-1" to "CI".

Response: Please see revised construction plans showing the correct zoning designations.

Existing Conditions & Demolition Plan (Sheet D-1.0):

a) The applicant has depicted existing regulated trees located on-site; however, the applicant has not complied with Section 6.2.1 of the City of Alachua Land Development Regulations (LDRs). The applicant must identify all trees by both the common and scientific name; identify the size of the tree (in inches); and identify if the tree is to be saved, relocated, or removed. This information must be compiled into a table or list. Each tree must be numerically referenced to the plan and table/list. Revise accordingly.

Response: Please see revised existing conditions & demolition plan showing the identification of all trees.

b) The applicant states the zoning to the East of the proposed AutoZone is "C- 1"; however, the zoning to the East of the proposed AutoZone is Residential Single Family - 3 ("RSF-3"). Revise accordingly.

Response: Please see revised construction plans showing the correct zoning designations.

c) Revise all references to "C-1" to "CI".

Response: Please see revised construction plans showing the correct zoning designations.

d) Applicant has not provided the right-of-way width for U.S. Highway 441 and N.W. 144th Street. Applicant must provide the right-of-way width for U.S. Highway 441 and N.W. 144th Street.

Response: Please see revised construction plans showing the correct right-of-way width for N.W. 144th Street, the ROW width for US 441 could not be determined.

e) The applicant makes an incorrect reference with the property boundary along the Southerly boundary of the proposed Family Dollar site. The applicant must correct the reference.

Response: Please see revised construction plans showing the correct reference to the property line.

Site Dimension Plan (Sheet C-1.0):

a) The applicant depicts and references two proposed free-standing monument signs. The applicant must remove the proposed signs from all site plan sheets. Signage is not approved via site plan and requires a separate sign permit. Under no circumstances shall the siting of any signage approved as a part of site plan approval. Further, signs cannot be located within ten (10) feet of existing or proposed City utilities. Currently, the applicant proposes both monument signs to be located immediately adjacent to an existing sanitary sewer main.

Response: Please see revised construction plans with additional notes stating that signage is not approved as part of the site plan approval and will require separate permit.

b) The applicant states the zoning to the East of the proposed AutoZone is "C- 1"; however, the zoning to the East of the proposed AutoZone is Residential Single Family - 3 ("RSF-3"). Revise accordingly.

Response: Please see revised construction plans showing the correct zoning designations.

c) Revise all references to "C-1" to "CI".

Response: Please see revised construction plans showing the correct zoning designations.

d) The applicant states that a 7.5 foot landscape buffer is required along the east side (along NW 144th St) of the proposed AutoZone; however, a 15 foot, type "D" landscape buffer is required along the east side (along NW 144th St). Revise accordingly.

Response: Please see revised construction plans showing the correct 15' type "D" landscape buffer.

e) The applicant has not provided, depicted, or labeled the required 7.5 foot landscape buffer between the subject properties. The applicant must provide a 7.5 foot landscape buffer between the subject properties (on each side of the property boundary for a total of 15 feet). Revise accordingly.

Response: Please see revised construction plans showing the 7.5' landscape buffer for both parcels.

f) The applicant has not provided, depicted, or labeled the required arterial buffer along U.S. Highway 441 for the subject properties. The applicant must provide arterial buffer/screening along U.S. Highway 441 in accordance with Section 6.2.3(E) of the LDRs. Note: Trees cannot be planted within ten (10) feet of existing or proposed utilities.

Response: Please see revised construction plans showing the arterial buffer/screening.

Grading, Paving, and Drainage Plan (Sheet C-2.0):

a) The applicant states that the invert elevations for the culvert running along the entrance into the proposed Family Dollar (S-2, S-3, & S-4) have invert elevations of 70.30 feet (S-2), 69.00 feet (S-3), and 70.20 (S-4); however, the bottom of the proposed swale to the West of the proposed culvert has an invert of 72.43 feet and the bottom of the proposed swale to the East of the proposed culvert has an invert of 72.33 feet. Please clarify.

Response: Please see revised grading, paving and drainage plan. The bottom of the swale in that section will match the invert of the mitered end sections proposed.

b) The applicant must correct the structure table for the proposed Family Dollar.

Response: Please see revised grading, paving and drainage plan for the correct drainage information.

c) The applicant has not provided the grading (in one (1) foot contours) for the proposed detention basin. The applicant must provide the grading (in one (1) foot contours) for the proposed detention basin.

Response: Please see revised grading, paving and drainage plan for the correct contour information.

d) The applicant has not indicated required fall protection for the proposed retaining wall. The applicant must provide fall protection in accordance with Section 7.2.2.4.5.2 of Chapter 1.1-57 of NFPA. Fall protection shall not be less than 42 inches in height.

Response: Please see revised construction plans indication the required fall protection.

e) The applicant states the zoning to the East of the proposed AutoZone is "C- 1"; however, the zoning to the East of the proposed AutoZone is Residential Single Family - 3 ("RSF-3"). Revise accordingly.

Response: Please see revised construction plans for the correct zoning designations.

f) Revise all references to "C-1" to "CI".

Response: Please see revised construction plans for the correct zoning designations.

Utility Plan (Sheet C-4.0):

a) The applicant states the zoning to the East of the proposed AutoZone is "C- 1"; however, the zoning to the East of the proposed AutoZone is Residential Single Family - 3 ("RSF-3"). Revise accordingly.

Response: Please see revised construction plans for the correct zoning designations.

b) Revise all references to "C-1" to "CI".

Response: Please see revised construction plans for the correct zoning designations.

Cross Sections (Sheets C-5.0 through C-7.0):

a) The applicant has not shown fall protection in accordance with NFPA. Revise applicable cross sections accordingly.

Response: Please see revised construction plans indication the required fall protection.

b) The applicant has not provided cross sections indicating how the proposed potable water and irrigation lines will cross the proposed retaining wall. The applicant must provide cross section details indicating how the potable water and irrigation lines will cross the retaining wall.

Response: Please see revised construction plans cross section showing a PVC casing around the proposed water and irrigation services. The retaining wall will be designed by others.

c) Remove all references to adjacent zoning in cross sections.

Response: Please see revised cross sections eliminating zoning designations.

d) Revise Cross Section "M" to show the required fifteen (15) foot landscape buffer

Response: Please see revised cross sections sheet depicting the correct 15' type "D" landscape buffer.

Grading, Paving, and Drainage Details I (Sheet C-8.0):

a) The applicant states in the handicap parking detail that the length is 15.5 feet (or as shown). The required length of handicap parking is eighteen (18) feet. Revise accordingly.

Response: Please see revised handicap parking detail.

b) The applicant states the proposed dumpster enclosure height is six (6) foot max; however, Section 6.2.3(B) requires dumpster enclosures to be a minimum of six (6) foot in height. Revise accordingly.

Response: Please see revised dumpster enclosure detail.

AutoZone Details 1 (Sheet C-10.A):

a) Typical Light Pole Detail: The applicant states the height of the light pole is twenty-five (25) feet; however, Section 6.4.5 establishes the maximum height of light poles for parking lots with less than 100 parking spaces as fifteen (15) feet. Revise accordingly.

Response: Please see revised photometric plan showing the revised light pole detail with a maximum height of 15'.

Parking/ Traffic/Circulation Standards: DATE: 09/24/2014

2. The applicant provides thirty-one (31) parking spaces for the AutoZone site; however, in accordance with Section 6.1.4(B)(5)(a) of the LDRs, a maximum of twenty-one (21) parking spaces are allowed. Revise site plan accordingly.

Response: Please see revised construction plans showing a total of 25 spaces for the AutoZone. A deviation letter for the additional 4' parking spaces is also attached.

3. The applicant proposes unutilized asphaltic surfacing at the four-way intersection where the drive isles for Family Dollar and AutoZone intersect. This asphaltic surfacing is not necessary. The applicant must remove the unutilized asphaltic surfacing.

Response: Please see revised construction plans showing the removal of said pavement.

4. To facilitate safe on-site traffic circulation, the applicant must provide stop bars and stop signs where the North, West, and East drives meet at the four-way intersection to provide the right-of-way to traffic entering the subject property from U.S. Highway 441.

Response: Please see revised construction plans showing the addition of said signing and marking.

5. To facilitate safe on-site traffic circulation, the applicant must provide stop bars and stop signs at the Northerly drive isle on the proposed AutoZone parcel.

Response: Please see revised construction plans showing the addition of said signing and marking.

6. The applicant must provide ADA Detectable Warning Strips at the crosswalk at the four-way intersection where the drive isles for Family Dollar and AutoZone intersect. Revise accordingly.

Response: Please see revised construction plans showing the addition of ADA detectable warning strips.

7. The applicant proposes cross access between the proposed Family Dollar and AutoZone. The applicant must provide a cross access easements for both Family Dollar and AutoZone. The applicant cannot provide access from one site to another without providing an easement.

Response: Please see revised construction plans showing the location of the cross access for both Family Dollar and AutoZone.

8. The applicant proposes off-street loading zones for the proposed Family Dollar and AutoZone; however, the proposed off-street loading zones are not adequately sized to contain the delivery vehicles proposed to the site. Off-street loading zones must be adequately designed to accommodate delivery vehicles.

Response: Please see revised construction plans showing adequately sized loading zones.

Tree Protection Standards

9. The applicant has not provided a tree mitigation/protection plan in accordance with Section 6.2.1 of the LDRs. The applicant must provide a tree mitigation/protection plan demonstrating compliance with Section 6.2.1 of the LDRs.

Response: Please see revised Sheet D.1.0 Existing Conditions & Demolition Plan for tree mitigation/protection efforts.

Landscaping Standards

10. The applicant has not incorporated the required tree mitigation plan into the landscape plan. Landscape plan must include mitigation for regulated trees removed in accordance with Section 6.2.1 of the LDRs. Further, trees used to mitigate for the removal of regulated trees must be in addition to the landscaping required in accordance with Sections 6.2.2 & 6.2.3 of the LDRs.

Response: Please see revised landscape plan.

11. The applicant has not provided a table detailing the landscaping requirements. The applicant must provide a table detailing the type of landscaping required (overall site landscaping, parking lot interior landscaping, parking lot buffer landscaping, perimeter buffer landscaping, arterial buffer landscaping, etc.), the amount of landscaping required, calculations of the required landscaping, and the amount of landscaping provided .

Response: Please see revised landscape plan.

12. The applicant must provide the total square footage of the parking area in the table and calculations for parking lot interior landscaping to ensure compliance with Section 6.2.2(D)(2)(a) of the LDRs. Further, given the applicant has not provided the square footage of the parking area for the subject properties, a review of the parking lot interior landscaping for the proposed Family Dollar and AutoZone could not be performed. The applicant must provide parking lot interior landscaping in accordance with Section 6.2.2(D)(2)(a) of the LDRs. Note: While a detail review could not be performed due to the lack of information, City staff noticed that it appears that both subject properties seem to be deficient in the interior parking lot landscaping.

Response: Please see revised landscape plan.

13. The applicant must provide the total linear footage of the exterior perimeter of the parking lot in the table and calculations to ensure compliance with Section 6.2.2(D)(2)(b) of the LDRs. Further, given the applicant has not provided the linear footage of the parking lot exterior perimeter for the subject properties, a detailed review of the parking lot perimeter buffer requirements for the proposed Family Dollar and AutoZone could not be performed. The applicant must provide parking lot exterior buffers in accordance with Section 6.2.2(D)(2)(b) of the LDRs. Note: While a detailed review could not be performed due to lack of information, City staff noticed that understory trees were not provided in accordance with Section 6.2.2(D)(2)(b)(iv)(b) of the LDRs.

Response: Please see revised landscape plan.

14. Per Section 6.2.2(D)(2)(b)(iii) of the LDRs, the parking lot perimeter buffer must be a minimum of five (5) feet and an average of seven (7) feet in width. The applicant must demonstrate compliance with these requirements.

Response: Please see revised landscape plan.

15. The applicant has not provided a parking Jot perimeter buffer along the East side of the parking lot on the East side of the proposed Family Dollar. The applicant must provide parking lot perimeter buffers along ALL parking lot perimeters.

Response: Please see revised landscape plan.

16. The applicant combines the Family Dollar and AutoZone parcels for the assumption of landscaping; however, each parcel must meet the landscaping requirements individually. The applicant must detail how each lot separately meets the landscape requirements.

Response: Please see revised landscape plan.

17. Planting list must be divided into categories based upon the planting type (i.e. Canopy Trees, Understory Trees, and Shrubs).

Response: Please see revised landscape plan.

18. The applicant has not provided arterial buffering in accordance with Section 6.2.3(E) of the LDRs. The applicant must provide arterial buffering along U.S. Highway 441 in accordance with Section 6.2.3(E) of the LDRs. For the proposed Family Dollar, a total of ten (10) canopy trees and six (6) ornamental/ understory trees, along with a continuous row of shrubs that form an opaque screen, are required. For the proposed AutoZone, a total of sixteen (16) canopy trees and nine (9) ornamental/understory trees, along with a continuous row of shrubs that form an opaque screen, are required.

Response: Please see revised landscape plan.

19. The applicant proposes to place trees on top of an existing sanitary sewer main located along the Southerly property boundary of the proposed Family Dollar and AutoZone (North of U.S. Highway 441). In accordance with Section 6.2.1(D)(4)(h) of the LDRs, trees must maintain minimum distance of ten (10) feet from existing and/or proposed utilities, within 15 feet of a driveway apron, within 20 feet of a traffic sign, or within 25 feet of an intersection in order to ensure adequate visibility. Revise accordingly.

Response: Please see revised landscape plan.

20. The applicant proposes to place trees adjacent to an existing six (6) inch potable water main located along the Northerly property boundary of the proposed Family Dollar and AutoZone. In accordance with Section 6.2.1(D)(4)(h) of the LDRs, trees must maintain minimum distance of ten (10) feet from existing and /or proposed utilities, within 15 feet of a driveway apron, within 20 feet of a traffic sign, or within 25 feet of an intersection in order to ensure adequate visibility. Revise accordingly.

Response: Please see revised landscape plan.

21. The applicant must show all existing and proposed utilities on the landscape plan to ensure there are no conflicts between the placement of landscaping and utilities.

Response: Please see revised landscape plan.

22. The applicant has not depicted or labeled the required landscape buffers. All landscape buffers must be shown on the landscape plan and must be labeled and dimensioned.

Response: Please see revised landscape plan.

23. The applicant has not provided the required landscape buffer between the proposed Family Dollar and AutoZone parcels. The applicant must provide a 7.5 foot, type "A" landscape buffer between the proposed Family Dollar and AutoZone parcels (7.5 feet on either side of the property boundary for a total of 15 feet).

Response: Please see revised landscape plan.

24. The applicant has not provided the required 15 foot, type "D" buffer required along the East side of the proposed AutoZone parcel. The applicant must provide a 15 foot, types "D" buffer along the East property boundary of the proposed AutoZone parcel.

Response: Please see revised landscape plan.

25. Given the proposed AutoZone must extensively revise the proposed parking area to remove a minimum of ten (10) parking spaces, a review of the parking lot interior landscape and parking lot perimeter landscape requirements could not be performed.

Response: Please see revised landscape plan.

26. The applicant lists several different types of shrubs with height ranging from 12 inches to 24 inches at the time of planting. All shrubs must be 24 inches at the time of plan ting in accordance with Section 6.2.2(D)(8) of the LDRs.

Response: Please see revised landscape plan.

27. The applicant is proposing 48 Orange Bulbine. Orange Bulbine is considered groundcover according to Appendix 6.2.2-A, and does not count towards the required shrubs.

Response: Please see revised landscape plan.

28. Ornamental/Understory trees must be a minimum of 1.5 inch caliper at four (4) inches above grade at the time of planting. Please indicate that the proposed ornamental/understory trees meet this requirement.

Response: Please see revised landscape plan.

29. The applicant has not provided site ornamental/ understory trees on the East and West side of the proposed Family Dollar in accordance with Section 6.2.2(D)(1)(c)(ii) of the LDRs. The applicant must provide two (2) ornamental/understory trees on the East and West side of the proposed Family Dollar.

Response: Please see revised landscape plan.

30. The applicant has not provided the required site canopy trees on the west side of the proposed AutoZone in accordance with Section 6.2.2(D)(1)(c)(i) of the LDRs. The applicant must provide two (2) canopy trees on the West side of the proposed AutoZone.

Response: Please see revised landscape plan.

31. The applicant has not provided site ornamental/understory trees for the proposed AutoZone in accordance with Section 6.2.2(D)(1)(c)(ii) of the LDRs. The applicant must provide a total of eight (8) ornamental / understory trees (four (4) in the front, and two (2) on each side of the proposed AutoZone).

Response: Please see revised landscape plan.

Lighting /Photometric Standards: DATE: 09/24/2014

32. The applicant must address the following regarding the Family Dollar lighting plan:

a) The applicant has not provided details of the mounting pole and mounting height. The applicant must provide a detail of the mounting pole and indicate the mounting height of each fixture (wall or pole). Section 6.4.5 of the LDRs establishes a maximum fixture height of fifteen (15) feet (whether mounted on a wall, pole, or other means). Further, mounting height should be indicated in the luminaire schedule.

Response: Please see revised photometric plan showing the details of the mounting pole and mounting pole height.

b) The maximum foot-candles for parking lots in business districts is exceeded in a few areas of the proposed parking lot. Section 6.4.4(C)(2) establishes a maximum of five (5) foot-candles in parking lots in business districts. Revise accordingly.

Response: Please see revised photometric plan with a maximum of 5 foot candles proposes.

c) The applicant has not provided the overall site uniformity ratio. Section 6.4.4(E) establishes a maximum uniformity ratio of 10:1 for a site or parcel.

Response: Please see revised photometric plan for the site uniformity ratio.

d) The applicant proposes LED lighting fixtures. Please address the hue requirements in Section 6.4.4(G) of the LDRs.

Response: Please see revised photometric plan indicating the correct color temperature to address the hue requirements.

e) Remove references to surrounding zoning designations.

Response: Please see revised photometric plan without zoning designations.

f) The photometric plan contains too many irrelevant items of information causing it to be difficult to read. The applicant must remove irrelevant data from the photometric plan to facilitate ease of review.

Response: Please see revised photometric plan without irrelevant data.

33. The applicant must address the following regarding the AutoZone lighting plan:

a) Typical Light Pole Detail: The applicant states the height of the light pole is twenty-five (25) feet; however, Section 6.4.5 establishes the maximum height of light poles for parking lots with less than 100 parking spaces as fifteen (15) feet. Revise accordingly.

Response: Response: Please see revised photometric plan showing the details of the mounting pole and mounting pole height.

b) Luminaire Schedule: The applicant states the height of the light pole is twenty-eight (28) feet; however, Section 6.4.5 establishes the maximum height of light poles for parking lots with less than 100 parking spaces as fifteen (15) feet. Revise accordingly.

Response: Response: Please see revised photometric plan showing the details of the mounting pole and mounting pole height.

c) Luminaire Schedule: The applicant has not provided the max lumens in accordance with Section 6.4.4(D)(2) of the LDRs. The applicant must provide the max lumens for each fixture. Note: Max lumens for parking lots with six (6) or more parking spaces in business district is 24,000 lumens.

Response: Please see revised photometric plan providing the required information.

d) The applicant has not provided the overall site uniformity ratio. Section 6.4.4(E) establishes a maximum uniformity ratio of 10:1 for a site or parcel.

Response: Please see revised photometric plan providing the required information.

e) The applicant proposes LED lighting fixtures. Please address the hue requirements in Section 6.4.4(G) of the LDRs.

Response: Please see revised photometric plan providing the required information.

f) Remove references to surrounding zoning designations.

Response: Please see revised photometric plan without zoning designations.

g) The photometric plan contains too many irrelevant items of data causing it to be difficult to read. The applicant must remove irrelevant data from the photometric plan to facilitate ease of review.

Response: Please see revised photometric plan without irrelevant data.

h) The applicant shows conflicting measurements of foot-candles in the proposed parking lot area and West side of the proposed AutoZone. Remove conflicting points and revise accordingly.

Response: Please see revised photometric plan removing conflicting points.

i) The applicant proposes two Lithonia – DSW1 LED 10C Full Cut-Off Fixtures on the East side of the proposed AutoZone building; however, Section 6.4.4(B)(2) of the LDRs prohibit any light source from directly illuminate building facades when visible from residential development. No light source shall directly illuminate facades of buildings visible from adjacent residential development. The properties to the East of the proposed AutoZone are residential and residentially zoned. The applicant cannot utilize wall-mounted lights, or any lights that directly illuminates the facade of the building on the East side of the proposed AutoZone.

Response: Please see revised photometric plan with the fixtures on the east side of the building removed.

j) The Luminaire Schedule states that two "S1" and two "S2" lighting fixtures are proposed; however, the photometric plan depicts four "S1" light fixtures and no "S2" lighting fixtures. Revise accordingly.

Response: Please see revised photometric plan which is now consistent.

k) The Luminaire Schedule states that two "W1" lighting fixtures are proposed; however, the photometric plan depicts six "W1" light fixtures. Revise accordingly. Note: as mention above, the W1 Fixtures proposed on the East side of the proposed AutoZone are not permitted in accordance with Section 6.4.4(B)(2) of the LDRs.

Response: Please see revised photometric plan which is now consistent.

Concurrency Impact Analysis: DATE: 09/24/2014

34. The applicant utilizes data from the June 2013 City of Alachua Development Monitoring Report. This data is out of date and irrelevant. The applicant must utilize the data from the August 2014 City of Alachua Development Monitoring Report and revise the entire concurrency impact analysis accordingly (i.e. transportation, potable water, sanitary sewer, and solid waste).

Response: Please see revised Concurrency Impact Analysis utilizing the August 2014 report.

35. The applicant utilized ITE Code 814; however, the correct ITE Code for the proposed use is ITE Code 815. Revise accordingly.

Response: Please see revised Concurrency Impact Analysis utilizing the correct 815 ITE code.

36. The applicant uses the wrong land use description for both ITE Code 815 and 843. Revise accordingly.

Response: Please see revised Concurrency Impact Analysis showing the correct land use description.

37. The applicant utilizes the wrong AM Peak and PM Peak Rates for ITE Code 843. Revise accordingly.
Response: Please see revised Concurrency Impact Analysis utilizing the correct rates.

38. The applicant is missing the segment number for Segment 8, SR 235 (CR 2054 to U.S. Hwy 441). Revise accordingly.
Response: Please see revised Concurrency Impact Analysis designating Segment 8.

39. The applicant has not included Segment 3/4, U.S. Hwy 441 (From NW 126th to SR235) in the transportation concurrency analysis. Applicant must include said Segment 3/4 into the transportation concurrency analysis.
Response: Please see revised Concurrency Impact Analysis to include Segment 3/4.

40. The applicant must revise all transportation analysis for all segments to reflect the most current data and the revisions to the trip generation data.
Response: Please see revised Concurrency Impact Analysis to include all updated information.

41. The applicant must update the conclusion to the transportation impact analysis to reflect the revisions.
Response: Please see revised Concurrency Impact Analysis to include all updated information.

42. The applicant includes a recreation impact analysis. The proposed development is commercial and does not create an impact to recreation. The applicant should remove the recreation impact analysis and retain the statement in the conclusion.
Response: Please see revised Concurrency Impact Analysis omitting the recreation impact analysis.

Comprehensive Plan Consistency Analysis

43. The applicant combines proposed Family Dollar and AutoZone within the Comprehensive Plan Analysis; however, a separate Comprehensive Plan Analysis for each proposed use must be provided. Compliance with the Comprehensive Plan must be shown for each individual use and/or subject property.
Response: Please see revised Comprehensive Plan Consistency Analysis as two separate attachments.

44. Given the Comprehensive Plan Analysis provided combines the two proposed uses and separate subject properties, a detailed review could not be performed.
Response: Acknowledged.

45. The applicant refers the City of Alachua Public Services Department issuing a "Letter to Serve"; however, the City of Alachua Public Services Department does not issue any such letter. Site plan approval is a final development order and therefore reserves concurrency for public facilities. The applicant must remove all reference to the City of Alachua Public Services Department issuing a "Letter to serve".
Response: Please see revised Comprehensive Plan Consistency Analysis omitting the "Letter to Serve".

46. Future land Use Element Analysis:

a) Objective 1.3: The applicant states the Future Land Use Map (FLUM) Designation is Community Commercial; however, FLUM Designation is Commercial. Revise accordingly.
Response: Please see revised Comprehensive Plan Consistency Analysis using the Commercial designation.

b) Policy 1.3.a: The applicant states the Future Land Use Map (FLUM) Designation is Community Commercial; however, FLUM Designation is Commercial. The applicant must remove the reference to

this policy. The correct policy is Policy 1.3.b "Commercial".
Response: Please see revised Comprehensive Plan Consistency Analysis referencing the correct policy.

c) Policy 1.3.d: The applicant combines the analysis of the performance standards for both Family Dollar and AutoZone; however, the applicant must demonstrate how each separately meet the required performance standards in Policy 1.3.d. The applicant must provide a separate analysis for Family Dollar and AutoZone.
Response: Please see revised Comprehensive Plan Consistency Analysis as two separate attachments.

d) Policy 1.3.d: Revise entire analysis to correctly reflect each proposed use.
Response: Please see revised Comprehensive Plan Consistency Analysis as two separate attachments.

e) Policy 1.3.d.2 "Buffers": The applicant states the landscape buffer on the east side is a 7.5 foot, type "B" landscape buffer; however, the required buffer is a 15 foot, type "D" landscape buffer. Revise accordingly.
Response: Please see revised AutoZone Comprehensive Plan Consistency Analysis designating the correct landscape buffer.

f) Policy 1.3.d.3 "Open Space": The applicant must revise data based upon changes. Revise accordingly.
Response: Please see both revised Comprehensive Plan Consistency Analysis for the open space modifications.

g) Policy 1.3.d.6 "Site Lighting": The applicant states the subject properties and the adjacent properties have a Community Commercial FLUM Designation; however, the subject properties and the properties to the North, West, and South have a Commercial FLUM Designation while the properties to the East have a Medium Density Residential FLUM Designation. Further, the applicant has not indicated how the site lighting meets the standard in Policy 1.3.d.6. Applicant must include the entire policy within the analysis.
Response: Please see both revised Comprehensive Plan Consistency Analysis showing the correct regulations.

h) Policy 2.4.a: The applicant's analysis does not indicate how the proposed application supports or is in compliance with this policy. Revise accordingly.
Response: Please see both revised Comprehensive Plan Consistency Analysis describing compliance.

47. Transportation Element Analysis:

a) Objective 1.1: The applicant must revise analysis based upon the changes to the Concurrency Impact Analysis.
Response: Please see both revised Comprehensive Plan Consistency Analysis matching the Concurrency Impact Analysis.

b) Policy 1.3.a "Parking Standards": The applicant must revise the analysis to detail how each separate proposed use meets the parking standards individually. Further, the parking standard for Automobile Parts Sales is one (1) parking space per every 400 square feet of floor area. Revise accordingly.
Response: Please see revised AutoZone Comprehensive Plan Consistency Analysis.

48. Community Facilities and Natural Groundwater Aquifer Recharge Element Analysis:
a) Policy 1.1.d: The applicant must revise the analysis based upon the updated Concurrency Impact Analysis.
Response: Please see both revised Comprehensive Plan Consistency Analysis matching the Concurrency Impact Analysis.

b) Policy 3.1.a: The applicant must revise the analysis based upon the changes to the storm water

management facility.

Response: Please see both revised Comprehensive Plan Consistency Analysis resolving the changes to the storm water management facility.

Design Standards for Business Uses:

49. The applicant must address the following deficiencies regarding the AutoZone facade:

a) The applicant has provided calculations of the glazing for the front and right side of the proposed structure; however, the applicant must include the parapet area in the calculation. Revise accordingly.
Response: Please see revised architectural elevations.

b) The applicant must provide dimensions for all windows on elevation plan.
Response: Please see revised architectural elevations.

c) The applicant must provide dimensions for all windows within the glazing calculation.
Response: Please see revised architectural elevations.

d) The applicant must demonstrate compliance with the facade massing standards in Section 3.8.2(A)(2)(b) of the LDRs. The proposed facade massing does not meet said standards.
Response: Please see revised architectural elevations.

e) Facade colors should be colors that are low reflectance, subtle, neutral, and/or earth tone colors and not high-intensity colors, bright colors, metallic colors, or black or fluorescent colors, except for building trim.
Response: Please see revised architectural elevations.

50. The applicant must address the following deficiencies regarding the Family Dollar facade:

a) The applicant has not provided calculations to show compliance with the glazing standards in Section 6 8.2(A)(2)(a) of the LDRs. Further, the applicant must include the parapet area in the calculation.
Response: Please see revised architectural elevations.

b) The applicant must provide dimensions for all windows on elevation plan.
Response: ***Please see revised architectural elevations.***

c) The applicant must provide dimensions for all windows within the glazing calculation.
Response: Please see revised architectural elevations.

d) The applicant must demonstrate compliance with the facade massing standards in Section 3.8.2(A)(2)(b) of the LDRs. The proposed facade massing does not meet said standards.
Response: ***Please see revised architectural elevations.***

e) The applicant must show compliance with the material design standards in Section 6.8.2(A)(2)(c) of the LDRs.
Response: Please see revised architectural elevations.

Public Services/Outside Engineering Review Comments:

51. The applicant must address the comments provided by Robert Walpole, P.E. of Causseaux, Hewett, & Walpole, Inc., in a letter dated September 16, 2014.
Response: Acknowledged.

52. The applicant must comply with all comments provided by Roland Davis, P.E., Public Services, in a memorandum dated September 16, 2014.
Response: Acknowledged.

53. The applicant must address the comments provided by Brian Green, Fire Inspector, Alachua County Fire Rescue, in a letter dated September 15, 2014.
Response: Acknowledged.

Miscellaneous/General Issues:

54. Given the extensive deficiencies of the proposed site plan, a second engineer review and DRT meeting shall be required.
Response: Acknowledged.

We trust this information is sufficient for you to complete your review. Please feel free to contact me should you have any questions or comments.

Sincerely,

Peter M. Maastricht
President
MAASTRICHT ENGINEERING, INC.

MAASTRICHT ENGINEERING

October 15, 2014

Mr. Robert Walpole, P.E.
City Engineer
City of Alachua
Planning and Community Development
P.O Box 9
Alachua, FL 32616

Response to 1st Round Comments

Re: Family Dollar/Auto Zone Site Plan Review Comments

Dear Mr. Walpole,

The following is our response to staffs first review comments for above referenced project.

SMF Report:

The report uses unnecessary design criteria such as 10-year parking crown and control structure vs. 25, and so on. These are typical South Florida criteria that do not apply and are not appropriate for North Florida. In addition, a dry detention system is proposed with orifice at the bottom of the basin. This arrangement is not allowed by the Suwannee River Water Management District (SRWMD). The system must be re-designed to be an offline dry detention system or as a more traditional retention-detention system, in which the WQTV is recovered via percolation.

Response: Please see revised construction plans and drainage report where the storm water management system has been redesigned as a traditional retention-detention system and no longer proposes an orifice at the bottom of the basin.

Sheet C-0.0:

Please note the proper FDOT office is the Gainesville Maintenance office, not Lake City.

Response: Please see revised cover sheet with the correct FDOT office.

Advanced Auto Parts or AutoZone - correct discrepancies

Response: Please see revised cover sheet naming AutoZone.

Sheet G-1.0:

Remove GRU utility notes that apply to water, sewer, and electric. GRU only supplies gas. Remove all other GRU references throughout.

Response: Please see revised General Notes sheet removing all reference to GRU.

Remove Alachua County required notes - they have no jurisdiction.

Response: Please see revised General Notes sheet removing all reference to Alachua County.

Sheet C-1.0:

Include a right turn only sign with the stop sign at US 441.

Response: Please see revised construction plans to include said stop sign.

Provide adequate traffic control at the 4-way intersections. Sheet C-2.0:

Response: Please see revised construction plans to include signing and marking for the 4-way intersection.

The perimeter berm concept is unnecessary in North Central Florida. Contain the critical duration storm event in the pond and parking areas only.
Response: Please see revised construction plans where the perimeter berm is only proposed around the storm water management areas per SRWMD.

Provide storm sewer sizing calculations.
Response: Please see attached pipe sizing calculations.

Provide main pipe sizes in public right-of-way based on each agency's minimum size.
Response: Please see revised construction plans designating main line sizes.

Sheet C-4.0:
Show the proper abandonment of the existing lateral to the existing manhole in the SW corner vs. showing true existing lateral and clean outs as existing conditions.
Response: Please see revised construction plans showing the proper abandonment of the existing laterals.

Proposed sign and/or structures shall not be within 10 feet of the existing sanitary sewer.
Response: Please see revised construction plans showing the proposed sign within 5' of the existing sanitary sewer as agreed with the City of Alachua review staff. The existing City of Alachua Utilities sanitary sewer is on private property. A 10' (5' on each side) easement will be provided to City of Alachua Utilities.

Label the water meters as the end of the City of Alachua maintenance and responsibility and ensure that a minimum of 5 feet exists between the edge of meter and retaining wall.
Response: Please see revised utility plan where the water meter has been labeled as the end of City of Alachua's responsibility for maintenance. A minimum of 5' is proposed from the additional meter and backflow preventer to the retaining wall.

The required fire flow of 2,000 GPM and 2,250 GPM requires two fire hydrants within 350 feet of the structures. Please label the fire hydrants with distances as the truck travels. If additional fire hydrants are required, show their locations and details.
Response: Please see revised construction plans and fire truck hose length exhibit showing the proposed hydrant.

We trust this information is sufficient for you to complete your review. Please feel free to contact me should you have any questions or comments.

Sincerely,

Peter M. Maastricht
President
MAASTRICHT ENGINEERING, INC.

MAASTRICHT ENGINEERING

October 15, 2014

Mr. Roland E. Davis, EI
Engineer Public Services
City of Alachua
Planning and Community Development
P.O Box 9
Alachua, FL 32616

Response to 1st Round Comments

Re: Family Dollar/Auto Zone Site Plan Review Comments

Dear Mr. Davis,

The following is our response to staffs first review comments for above referenced project.

General:

Public Utility Easements (PUE's) are required by the owner for all City of Alachua maintained utilities located on private property.
Response: Please see revised construction plans showing proposed utility easements for all City of Alachua maintained utilities.

Page G-10.00; References GRU Standards and Specifications; revise accordingly.
Response: Please see revised construction plans removing any reference to GRU.

Page G-12.00; References GRU Standards-(Delete this page.)
Response: Please see revised construction plans removing any reference to GRU.

Developer is responsible for all fees associated with the electric, water and wastewater system upgrades.
Response: Acknowledged.

Public Services Department will be responsible for invoicing developer prior to the start of the project.
Response: Acknowledged.

Electric:
Electrical engineer to provide information related to the electrical loads for each proposed facility. Size primary electric transformers and confirm services are adequate for additional load.
Response: Acknowledged.

Note how proposed facility will achieve electric service from each power transformer. Identify primary electric feeder loop; two (2) alternatives routes have been indicated on the drawings for each transformer.
Response: Please see revised construction plans showing how each of the facilities will achieve electric service.

High efficiency transformers will be ordered by the City and invoice to the developer.
Response: Acknowledged.

Provide vehicle access to each transformer and maintain a 10' clear zone around each transformer.
Response: Please see revised construction plans showing the location of each transformer and a 10' clear zone.

Developer installed electric system will be in accordance with the City's electric standards, approved materials and electric policy.
Response: Acknowledged.

Streets & Roads:
No comments.

Storm water:
No comments.

Water:
Existing water meters are available on site for this project.
Evaluate size of existing water meter size; existing meters may be too large for these facilities.
Response: Please see attached water meter sizing calculations and revised construction plans showing the existing 1.5" meter to be replaced with a 1.0" meter to serve the proposed AutoZone.

Install (1) new fire hydrant adjacent to the Southwest corner of the property.
Response: Please see revised construction plans for the addition of said fire hydrant.

Wastewater:
Identify types of waste (domestic only, industrial only, mixed) generated by proposed facility.
Response: Please see revised utility sheet of the construction plans.

Identify nature and quantity of any liquids used in the facility that may be introduced to the wastewater system.
Response: Please see revised utility sheet of the construction plans.

Confirm the location of two (2) - 6" sewer lateral stubbed out from FDOT R/W to existing facilities.
Response: Please see revised utility sheet of the construction plans with a note regarding the sewer later stub outs.

We trust this information is sufficient for you to complete your review. Please feel free to contact me should you have any questions or comments.

Sincerely,

Peter M. Maastricht
President
MAASTRICHT ENGINEERING, INC.

October 15, 2014

Mr. Brian Green
Alachua County Fire Rescue,
City of Alachua
Mr. Brandon Stubbs
P.O Box 9
Alachua, FL 32616

Response to 1st Round Comments

Re: Family Dollar/Auto Zone Site Plan Review Comments

Dear Mr. Green,

The following is our response to staffs first review comments for above referenced project.

General:
I have reviewed the revised site plan and fire flow calculations. The fire flow calculations are acceptable however the hydrant distance from both building is too long. A hydrant shall be placed closer to the buildings; this will also serve as the required second hydrant.

Response: Please see revised utility plan for the addition of the required fire hydrant.

We trust this information is sufficient for you to complete your review. Please feel free to contact me should you have any questions or comments.

Sincerely,

Peter M. Maastricht
President
MAASTRICHT ENGINEERING, INC.

MAASTRICHT ENGINEERING

October 23, 2014

The City of Alachua
Brandon Stubbs
Planner
Planning and Community Development
PO Box 9
Alachua, Florida 32616-0009

2nd Review Comments

RE: **Auto Zone- Family Dollar 2nd Review Comments**

Dear Mr. Stubbs,

The following is our response to staffs 2nd review comments for above referenced project:

Site Plan:
Revise the Site Plan as follows:

Cover Sheet (Sheet C-0.0)

1. Development Data Table (Family Dollar)

I. The applicant states that 28,729 square feet or 72 percent of the subject property is impervious area; however, max impervious is 70 percent. Per Policy 2.4.a of the Future Land Use Element of the Comprehensive Plan, a minimum of 30 percent of a nonresidential property subject to development shall be landscaped. The applicant must increase the amount of landscaping and reduce the amount of impervious area.

Response: Please see attached revised cover sheet showing 30% landscaped area and 70% impervious area. Please see revised landscape plan with consistent information.

II. The applicant states that 11,267 square feet or 28 percent of the subject property will be landscaped. Policy 2.4.a of the Future Land Use Element of the City of Alachua Comprehensive Plan requires a minimum of 30 percent landscape area. Revise accordingly. Note: Per Article 6, Section 6.7(B)(2), "areas occupied by required landscaping...shall be counted towards the open space set-aside." As such, the 10% open space requirement can be included in the larger 30% landscaping requirement such that at a minimum, at least 20% of the site must be landscaped and 10% must be kept in open space. Further, the landscape plan states that 12,021 square feet or 30 percent of the subject property will be landscape. Please verify the correct landscape square footage and percentage and revise accordingly.

Response: Please see attached revised cover sheet showing 30% landscaped area and 70% impervious area. Please see revised landscape plan with consistent information.

III. The applicant states open space is approximately 16.4 percent; however, the landscape plan indicated that approximately 30 percent of the subject property is landscaped. Landscaping and Storm water Management Areas count toward open space. It appears that more than 16.4 percent of the subject property is open space. Please verify and revise accordingly. It appears that what the applicant is calling landscape area is actually open space.

Response: Please see attached revised cover sheet showing 30% landscaped area and 70% impervious area. Please see revised landscape plan with consistent information.

b. Development Data Table (AutoZone)

I. The applicant states that 26,168 square feet or 52 percent of the subject property will be landscaped; however, the landscape plan states that 20,939 square feet or 42 percent (41.5 percent as calculated) of the subject property will be landscaped. Further, it appears the applicant has included the Storm water Management Facility (SMF) (Drainage Swells and Detention Basin) in the calculation. Areas dedicated to SMF cannot be included in the landscape square footage and percentage unless landscaping is actively utilized in said SMF. The applicant does not propose any landscaping within the SMF; and therefore, the SMF area cannot be included in the landscape square footage and percentage. Revise accordingly.

Response: Please see attached revised cover sheet showing the 52% landscaped area and 48% impervious area. Please see revised landscape plan with consistent information. The storm water management area will also contain landscaping therefore is included in the calculation for landscape area.

II. The applicant states open space is approximately 39.7 percent; however, the landscape plan indicated that approximately 42 percent (41.5 percent as calculated) of the subject property is landscaped. Landscaping and Storm water Management Areas count toward open space. It appears that more than 39.7 percent of the subject property is open space. Please verify and revise accordingly. It appears that what the applicant is calling landscape area is actually open space.

Response: Please see attached revised cover sheet showing the 52% open space and 48% impervious area. Please see revised landscape plan with consistent information. The storm water management area will also contain landscaping therefore is included in the calculation for landscape area.

Existing Conditions, Demolition, & Tree Mitigation Plan (Sheet D-1.0)

a. The applicant states that trees 1, 2, and 3 on the AutoZone parcel are to remain; however, comparing the existing conditions to the proposed conditions, it does not appear that these trees will be able to remain. It is recommended that the applicant remove and mitigate for trees 1, 2, and 3 on the AutoZone parcel. If any of the regulated trees proposed to remain are damaged and die, the applicant will be required to submit a tree mitigation plan (along with any associated fees) to mitigate for any trees that were proposed to remain.

Response: Please see revised existing conditions, demolition & tree mitigation plan showing trees, 1,2,3 on the AutoZone parcel to be removed. Please see revised landscape plan with consistent information.

b. The applicant proposed to keep multiple existing tree on the AutoZone parcel; however, the applicant has not submitted a tree protection plan in accordance with Section 6.2.1(D)(2) of the Land Development Regulations.

Response: Please see revised landscape plan showing tree protection details.

Parking/Traffic/Circulation Standards:

1. The applicant must provide the City of Alachua a copy of the recorded cross access easement as depicted on the approved site plan prior to issuance of a building permit. This will be a condition of site plan approval.

Response: Acknowledged.

Landscaping Standards:

3. Tree Protection (Section 6.2.1)

a. The applicant states the mitigated trees are incorporated into the landscape plan; however, it does not appear the applicant has provide any mitigation for the regulated trees proposed to be removed. Trees mitigated for the removal of regulated trees must be in addition to the required landscaping. The applicant must identify the trees utilized for mitigation in the table and the symbol on the site location. Further, a list must be provided of the tree removed and the tree to replace the regulated tree proposed to be removed. All data must be separated based upon the individual parcels (Family Dollar and AutoZone).

Response: Please see attached revised landscape plan.

b. The applicant provides a note regarding tree mitigation on the landscape plan; however, the note is not correct and contradicts itself. Please see attached example of a previous landscape/tree mitigation plan.

Response: Please see attached revised landscape plan.

4. Site Landscaping (Section 6.2.2(D)(1)(c))

a. Family Dollar

I. Side and Rear Canopy Trees Required: The applicant states that two (2) canopy trees are required; however, the requirement is two (2) canopy trees per acre per side and rear. A total of six (6) canopy trees are required (2 on the west side, 2 on the east side, and 2 in the rear/north side). The applicant must show the calculation and break up the landscaping per side and rear. Example: 2 canopy trees per acre x 0.92 acres x 3 sides = 6 canopy trees (West Side = 2 canopy trees, East Side = 2 canopy trees, Rear/North Side = 2 canopy trees)

Response: Please see attached revised landscape plan.

II. Site Understory Trees Required: The applicant states that six (6) understory trees are provide; however, the applicant has not broken down the analysis. The requirements states six (6) understory/ornamental trees per acre are required with 50 percent planted in the front and 25 percent planted on each side; therefore, a total of three (3) are required in the front, two (2) on the west side, and two (2) on the east side. The applicant must break down the analysis to show where the trees are required and how many are provided in each area.

Response: Please see attached revised landscape plan.

III. Building Facade Tree Requirement: The applicant states that one (1) canopy tree per 100 linear feet of front facade is required; however, Section 6.2.2(D)(1)(c)(i) of the LDRs require four (4) canopy trees per 100 linear feet of front facade. This is in addition to the three (3) canopy trees per acre that must be planted in the primary/street- facing side. A total of seven (7) canopy trees must be planted in the primary/street-facing side (with 4 of the 7 are required to be planted in front of the facade). Further, the applicant must revise the calculation.

Response: Please see attached revised landscape plan.

b. AutoZone

I. Side and Rear Canopy Trees Required: The applicant states that three (3) canopy trees are required; however, the requirement is three (3) canopy trees per acre per side and rear. A total of nine (9) canopy trees are required (3 on the west side, 3 on the east side, and 3 in the rear/north

side). The applicant must show the calculation and break up the landscaping per side and rear. Example: 2 canopy trees per acre x 1.16 acres x 3 sides = 9 canopy trees (West Side = 3 canopy trees, East Side = 3 canopy trees, Rear/North Side = 3 canopy trees)

Response: Please see attached revised landscape plan.

II. Site Understory Trees Required: The applicant states that six (6) understory trees are provide; however, the applicant has not broken down the analysis. The requirements states six (6) understory/ornamental trees per acre are required with 50 percent planted in the front and 25 percent planted on each side; therefore, a total of four (4) are required in the front, two (2) on the west side, and two (2) on the east side. The applicant must break down the analysis to show where the trees are required and how many are provided in each area. Further, the applicant has not provided the required trees on the west side.

Response: Please see attached revised landscape plan.

III. Building Facade Tree Requirement: The applicant states that one (1) canopy tree per 100 linear feet of front facade is required; however, Section 6.2.2(D)(1)(c)(i) of the LDRs require four (4) canopy trees per 100 linear feet of front facade. This is in addition to the three (3) canopy trees per acre that must be planted in the primary/street- facing side. A total of seven (7) canopy trees must be planted in the primary/street-facing side (with 4 of the 7 are required to be planted in front of the facade). Further, the applicant must revise the calculation.

Response: Please see attached revised landscape plan.

1. Parking Lot Landscaping "Interior & Buffer" (Section 6.2.2(D)(2))

a. The applicant states the parking lot area for AutoZone is 24,709 square feet; however, it appears this calculation is extremely high. City staff calculates the parking area for AutoZone to be approximately 7,578 square feet. Section 6.2.2(D)(2)(a)(iii) requires one (1) canopy or ornamental tree per 2,000 square feet of parking lot area and ten (10) shrubs per tree; therefore, the applicant must provide only four (4) interior parking lot trees for the proposed AutoZone and 40 shrubs. Note: The applicant has only provided four (4) trees that meet the interior parking lot landscaping requirement.

Response: Please see attached revised landscape plan.

b. The applicant must provide the total linear footage of the exterior perimeter of the parking lot in the table and calculations to ensure compliance with Section 6.2.2(D)(2)(b) of the LDRs. Further, given the applicant has not provided the linear footage of the parking lot exterior perimeter for the subject properties, a detailed review of the parking lot perimeter buffer requirements for the proposed Family Dollar and AutoZone could not be performed. The applicant must provide parking lot exterior buffers in accordance with Section 6.2.2(D)(2)(b) of the LDRs. Note: While a detailed review could not be performed due to lack of information, City staff noticed that understory trees were not provided in accordance with Section 6.2.2(D)(2)(b)(iv)(b) of the LDRs.

Response: Please see attached revised landscape plan.

c. Per Section 6.2.2(D)(2)(b)(iii) of the LDRs, the parking lot perimeter buffer must be a minimum of five (5) feet and an average of seven (7) feet in width. The applicant must demonstrate compliance with these requirements.

Response: Please see attached revised landscape plan.

1. Perimeter Buffers (Section 6.2.2(D)(3))

a. Family Dollar

I. North, East, & West Perimeter Buffers: The applicant states that four(4) understory trees are required for the north, east, and west perimeter buffers; however, a total of five (5) understory/ornamental trees are required for the north, eat, and west perimeter buffers. Further, only four (4) understory/ornamental trees are located on the west perimeter buffer, and two (2) understory/ornamental trees are located on the east perimeter buffer.

Response: Please see attached revised landscape plan.

II. South Perimeter Buffer: The south perimeter buffer is an arterial buffer. The applicant must label it as such. See comment number seven (7) below for additional details.

Response: Please see attached revised landscape plan.

III. The applicant has not provided calculations for any of the perimeter buffers. The applicant must show all calculations for required landscaping.

Response: Please see attached revised landscape plan.

IV. The applicant must indicate which option the applicant is utilizing for each buffer (option 1, option 2, or option 3).

Response: Please see attached revised landscape plan.

V. The applicant must follow the spacing requirements in the landscape buffer option requirements as much as possible. Planting a series of tree clumped together does not meet the spacing requirements. The intent of the buffer requirement is to buffer from adjacent properties and to provide a row of tree evenly spaced in a series or alternating canopy and understory/ornamental trees.

Response: Please see attached revised landscape plan.

b. AutoZone

I. North & West Perimeter Buffers: The applicant states that four (4) understory trees are required for the north and west perimeter buffers; however, a total of five (5) understory/ornamental trees are required for the north and west perimeter buffers. Further, only four (4) understory/ornamental trees are located on the north perimeter buffer, only three (3) canopy trees are located on the west perimeter buffer, and only four (4) understory/ornamental trees are located on the west perimeter buffer.

Response: Please see attached revised landscape plan.

II. East Perimeter Buffer: The applicant states that four (4) canopy trees are required for the east perimeter buffer; however, a total of eight (8) canopy trees are required for the east perimeter buffer. Further, the applicant has only provided five (5) canopy trees along the east perimeter buffer.

Response: Please see attached revised landscape plan.

III. South Perimeter Buffer: The south perimeter buffer is an arterial buffer. The applicant must label it as such. See comment number seven (7) below for additional details.

Response: Please see attached revised landscape plan.

IV. The applicant has not provided calculations for any of the perimeter buffers. The applicant must show all calculations for required landscaping.

Response: Please see attached revised landscape plan.

V. The applicant must indicate which option the applicant is utilizing for each buffer (option 1, option 2, or option 3).

Response: Please see attached revised landscape plan.

VI. The applicant must follow the spacing requirements in the landscape buffer option requirements as much as possible. Planting a series of tree clumped together does not meet the spacing requirements. The intent of the buffer requirement is to buffer from adjacent properties and to provide a row of tree evenly spaced in a series or alternating canopy and understory/ornamental trees.

Response: Please see attached revised landscape plan.

7. Arterial Buffer (Section 6.2.3(E)

1. The applicant has not provided arterial buffering in accordance with Section 6.2.3(E) of the LDRs. The applicant must provide arterial buffering along U.S. Highway 441 in accordance with Section 6.2.3(E) of the LDRs. For the proposed Family Dollar, a total of ten (10) canopy trees and six (6) ornamental/understory trees, along with a continuous row of shrubs that form an opaque screen, are required. For the proposed AutoZone, a total of sixteen (16) canopy trees and nine (9) ornamental/understory trees, along with a continuous row of shrubs that form an opaque screen, are required.

Response: Please see attached revised landscape plan.

2. Trees cannot be planted within fifteen (15) feet of a driveway apron. Please ensure that all trees planted to meet the arterial buffering requirements are not located within fifteen (15) feet of and driveway aprons.

Response: Please see attached revised landscape plan.

3. Giving consideration of an existing sanitary sewer line located approximately seven (7) feet north of the southerly property boundary, the applicant must locate as many of the required tree for the arterial buffer adjacent to the southerly property boundary as possible while the remainder of the required arterial buffer may be located no closer than five. (5) Feet north of the existing sanitary sewer line.

Response: Please see attached revised landscape plan.

4. The required continuous evergreen hedge must be planted within the 7.5 foot landscape buffer area along the southerly property boundary. This is in addition to the hedge required for the parking lot perimeter landscaping requirement.

Response: Please see attached revised landscape plan.

8. The applicant states the total landscaped area for Family Dollar is 12,021 square feet or 30 percent; however, according the engineer's calculation on impervious surfacing (28,729 square feet or 72 percent) this is not possible. See comment number 1.a.i and 1.a.ii for additional details.

Response: Please see attached revised landscape plan.

9. The applicant states that 20,939 square feet or 42 percent (41.5 percent as calculated) of the subject property will be landscaped; however, it appears the applicant has included the Storm water Management Facility (SMF) (Drainage Swells and Detention Basin) in the landscaped area calculation. Areas dedicated to SMF cannot be included in the landscape square footage and percentage unless

landscaping is actively utilized in said SMF. The applicant does not propose any landscaping within the SMF; and therefore, the SMF area cannot be included in the landscape square footage and percentage. See comment number 1.b.i for additional details.

Response: Please see attached revised landscape plan.

10. The applicant must show all existing and proposed utilities on the landscape plan to ensure there are no conflicts between the placement of landscaping and utilities.

Response: Please see attached revised landscape plan.

11. The applicant lists several different types of shrubs with height ranging from 12 inches to 24 inches at the time of planting. All shrubs must be 24 inches at the time of planting in accordance with Section 6.2.2(D)(8) of the LDRs.

Response: Please see attached revised landscape plan.

12. The applicant is proposing 48 Orange Bulbine. Orange Bulbine is considered groundcover according to Appendix 6.2.2-A and does not count towards the required shrubs.

Response: Please see attached revised landscape plan.

13. Landscape Notes: The applicant's landscape notes are so light they cannot be read. The applicant must provide landscape notes that are legible.

Response: Please see attached revised landscape plan.

Concurrency Impact Analysis:

14. The applicant utilizes the wrong AM Peak and PM Peak Rates for ITE Code 815. The correct AM Peak rate is 5.48 and the PM Peak Rate is 5.57. Revise accordingly.

Response: Please see revised concurrency impact analysis with correct AM peak and PM peak rates.

15. The applicant utilizes the wrong ADT, AM Peak, and PM Peak Rates for ITE Code 843. The correct ADT Rate is 61.91, AM Peak Rate is 4.41, and the PM Peak Rate is6.44. Revise accordingly.

Response: Please see revised concurrency impact analysis with correct ADT, AM peak and PM peak rates.

16. The applicant must revise the Projected Trip Generation, Residual Capacity with Application Approval for ADT and PM Peak for all segments the revisions to the trip generation data.

Response: Please see revised projected trip generation, residual capacity with application approval for ADT and PM peak for all segments as requested.

17. The applicant must update the conclusion to the transportation impact analysis to reflect the revisions.

Response: Please see revised concurrency impact analysis conclusion.

18. The applicant states the Less Actual Potable Water Flows is 1,162,000 in the Potable Water Impact Analysis; however, the correct Less Actual Potable Water Flows is 1,140,000. Revise Accordingly.

Response: Please see revised concurrency impact analysis showing the correct actual potable water flows.

Comprehensive Plan Consistency Analysis:

AutoZone Comprehensive Plan Consistency Analysis Comments

19. Future Land Use Element Analysis:

    a. Policy1.3.d.3 "Open Space": The applicant states open space is approximately 39.7 percent; however, the landscape plan indicated that approximately 42 percent (41.5 percent as calculated) of the subject property is landscaped. Landscaping and Storm water Management Areas count toward open space. It appears that more than 39.7 percent of the subject property is open space. Please verify and revise accordingly.

Response: Please see revised comprehensive plan analysis showing the correct percentages as revised on the site plan.

    b. Policy 1.3.d.8 "Landscaping": The applicant states the subject property will have approximately 52 percent landscaping; however, the landscape plan states 52 percent (41.5 percent as calculated) of the subject property will be landscaped. Further, it appears the applicant has included the Storm water Management Facility (SMF) (Drainage Swells and Detention Basin) in the calculation. Areas dedicated to SMF cannot be included in the landscape square footage and percentage unless landscaping is actively utilized in said SMF. The applicant does not propose any landscaping within the SMF; and therefore, the SMF area cannot be included in the landscape square footage and percentage. Revise accordingly.

Response: Please see revised comprehensive plan analysis showing the correct percentages as revised on the site plan.

    c. Policy 1.3.d.10: The applicant states that no performance based zoning requirements will be proposed for this site; however, performance based zoning requirements are NOT proposed by the applicant. Performance based zoning requirements are governed based upon the use type and as referenced in Table 4.1-1 "Table of Allowed Uses" in the Land Development Regulations. The proposed use of "Automobile Parts Sales" does not have any use-specific standards according to Table 4.1-1. The applicant must revise the response to state, "The proposed use type is "Automobile Parts Sales". Table 4.1-1 of the City of Alachua Land Development Regulations indicate there are no performance based zoning requirements for the proposed use."

Response: Please see revised comprehensive plan analysis with the revised response as requested.

    d. Policy 2.4.a "Landscaping General": The applicant must verify total landscape percentage and revise accordingly.

Response: Please see revised comprehensive plan analysis showing the correct percentages as revised on the site plan.

    e. Policy 2.4.2 "Landscaping Buffering": The applicant must verify total landscape percentage and revise accordingly.

Response: Please see revised comprehensive plan analysis showing the correct percentages as revised on the site plan.

    f. Policy 2.4.a "Open Space": The applicant must verify total open space percentage and revise accordingly.

Response: Please see revised comprehensive plan analysis showing the correct percentages as revised on the site plan.

20. Transportation Element Analysis:

    a. Objective 1.1: The applicant must revise analysis based upon the changes to the Concurrency Impact Analysis.

Response: Please see revised comprehensive plan analysis based upon the changes to the concurrency impact analysis.

21. Community Facilities and Natural Groundwater Aquifer Recharge Element Analysis:

    a. Policy 1.1.d: The applicant must revise the analysis based upon the updated Concurrency Impact Analysis. The applicant states the design capacity will not exceed 53.79 percent; however, it's 54.12 percent.

Response: Please see revised comprehensive plan analysis based upon the changes to the concurrency impact analysis.

<u>Family Dollar Comprehensive Plan Consistency Analysis Comments:</u>

22. Future Land Use Element Analysis:

    g. Policy1.3.d.3 "Open Space": The applicant states open space is approximately 16.4 percent; however, the landscape plan indicated that approximately 30 percent of the subject property is landscaped. Landscaping and Storm water Management Areas count toward open space. It appears that more than 16.4 percent of the subject property is open space. Please verify and revise accordingly.

Response: Please see revised comprehensive plan analysis showing the correct percentages as revised on the site plan.

    h. Policy 1.3.d.8 "Landscaping": The applicant states the subject property will have approximately 28 percent (less than the 30 minimum requirements) landscaping; however, the landscape plan states 30 percent of the subject property will be landscaped. Revise accordingly.

Response: Please see revised comprehensive plan analysis showing the correct percentages as revised on the site plan.

    i. Policy 1.3.d.10: The applicant states that no performance based zoning requirements will be proposed for this site; however, performance based zoning requirements are NOT proposed by the applicant. Performance based zoning requirements are governed based upon the use type and as referenced in Table 4.1-1 "Table of Allowed Uses" in the Land Development Regulations. The proposed use of "Department or Discount Store" does not have any use-specific standards according to Table 4.1-1, unless a single tenant with 20,000 square feet or great of floor area. The applicant must revise the response to state, "The proposed use type is "Department or Discount Store". Table 4.1-1 of the City of Alachua Land Development Regulations indicates there are no performance based zoning requirements for Department or Discount Stores that contain less than 20,000 square feet of floor area."

Response: Please see revised comprehensive plan analysis with the revised response as requested.

    j. Policy 2.4.a "Landscaping General": The applicant must verify total landscape percentage and revise accordingly.

Response: Please see revised comprehensive plan analysis showing the correct percentages as revised on the site plan.

k. Policy 2.4.2 "Landscaping Buffering": The applicant must verify total landscape percentage and revise accordingly.

Response: Please see revised comprehensive plan analysis showing the correct percentages as revised on the site plan.

l. Policy 2.4.a "Open Space": The applicant must verify total open space percentage and revise accordingly.

Response: Please see revised comprehensive plan analysis showing the correct percentages as revised on the site plan.

23. Community Facilities and Natural Groundwater Aquifer Recharge Element Analysis:

b. Policy 1.1.d: The applicant must revise the analysis based upon the updated Concurrency Impact Analysis. The applicant states the design capacity will not exceed 53.79 percent; however, it's 54.12 percent.

Response: Please see revised comprehensive plan analysis based upon the changes to the concurrency impact analysis.

Design Standards for Business Uses:

24. The applicant must address the following deficiencies regarding the Family Dollar facade:

a. The applicant has not complied with the glazing standards in Section 6.8.2(A)(2)(a) of the LDRs. The applicant is proposing EIFS Board with a smooth finish as glazing; however, EIFS Board cannot be utilized towards the glazing requirements. Article 10 of the City of Alachua Land Development Regulations defines Glazing as, "... the portion of an exterior building surface occupied by glass or windows." The applicant must revise building facade accordingly. Further, the applicant can utilize faux glazing for part of the glazing requirements; however, faux glazing MUST be comprised of glass or windows.

Response: Please see revised Family Dollar architectural elevations.

Public Services/Outside Engineering Review Comments:

25. The applicant must address the comments provided by Robert Walpole, P.E. of CHW, Inc., in an electronic mail dated October 21, 2014.

Response: Acknowledged. Please see revised grading and drainage plan implementing the recommendation by Mr. Walpole.

26. The applicant must comply with all comments provided by Roland Davis, P.E., Public Services, in a memorandum dated October 22, 2014.

Response: Acknowledged. Please see revised utility plan and attached response letter.

27. The applicant must address the comments provided by Brian Green, Fire Inspector, Alachua County Fire Rescue, in a letter dated October 22, 2014.

Response: Acknowledged. There are no additional comments by Brian Green.

Miscellaneous/General Issues:

28. The applicant must provide the City of Alachua a copy of the recorded Public Utility Easements (P.U.E.) as depicted on the approved site plan prior to issuance of a building permit. This will be a condition of site plan approval.
Response: Acknowledged.

We trust this information is sufficient for you to complete your review. Please feel free to contact me should you have any questions or comments.

Sincerely,

Andres Boral, E.I.
MAASTRICHT ENGINEERING, INC.

MAASTRICHT ENGINEERING

October 23, 2014

The City of Alachua
Brandon Stubbs
Planner
Planning and Community Development
PO Box 9
Alachua, Florida 32616-0009

2nd Review Comments

RE: **Auto Zone- Family Dollar 2nd Review Comments**

Dear Mr. Stubbs,

The following is our response to staffs 2nd review comments for above referenced project:

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1. General:
No Additional Comments.

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2. Electric: Additional/Revised Comments:

a. Provide electrical loads for the proposed facilities for review by the Public Services as originally requested.
Response: Please see attached electrical load calculations for the proposed facilities.

b. Included (E) on the electric line drawing leaving Pole #11485 to Family Dollar transformer.
Response: Please see attached revised utility plan showing (E) on the electric line as requested.

c. Extend PUE 10' south of the proposed retaining wall at Family Dollar adjacent to the proposed transformer; this will accommodate feeder loop from the south.
Response: Please see attached revised utility plan extending the PUE 10' south of the proposed retaining wall as requested.

d. Loop electric service from Pole #11485, north to Family Dollar transformer thru PUE, thence north thru retaining wall; install 6" casing for the 4" electrical conduit.
Response: Please see attached revised utility plan looping electric service as requested.

e. Loop the electric feeder from west pole to AutoZone transformer and out to feeder heading west.
Response: Please see attached revised utility plan looping electric feeder as requested.

3. Streets & Roads:
No Additional Comments.

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4. Storm water:
No Additional Comments.

5. Water:

Water Taps Detail revisions:

a. Water main tapping service saddle; delete (3) curb stop and install 2" gate valve and valve box.
Response: Please see revised utility details with the deleted curb stop and with a 2" gate valve and box proposed.

6. Item (4)-2" PVC pipe, schedule 40, service line with reducers at the meter connections.
Response: Please see revised utility details with item 4 revised as requested.

a. Water Meter Assembly Details

- Add (2A) for PVC piping, schedule 80, for service line to facility.

Response: Please see revised utility details with proposed schedule 80 PVC for service line.

- Note all piping for from water main 2" PVC pipe; revised applicable Details.

Response: Please see revised utility plan showing all piping from water main as 2" PVC.

- Add casing pipe for water services thru retaining wall.

Response: Please see revised utility plan proposing casing for all services thru the retaining wall.

- Deleted underground backflow preventer detail: *(NIA* for this project)

Response: Please see revised utility details with backflow preventer deleted as requested.

Wastewater:
No Additional Comments.

We trust this information is sufficient for you to complete your review. Please feel free to contact me should you have any questions or comments.

Sincerely,

Andres Boral, E.I.
MAASTRICHT ENGINEERING, INC.

November 2nd, 2014

The City of Alachua
Mr. Brandon M. Stubbs
Planner
Planning and Community Development
P.O. Box 9
Alachua, FL 32616

RE: Auto Zone- Family Dollar Review Comments

Dear Mr. Stubbs,
The following is our response to staffs first review comments for above referenced project

---

Landscaping Standards

1) Landscape Plan (Sheet Ll.1)
   a. The applicant must revise the amount of landscaping (understory trees) provided for the overall site landscaping requirement. The applicant states four (4) understory trees are provided; however, five (5) understory trees are provided as required.

Response: Please see attached revised landscape plan.

Design Standards for Business Uses

2) The applicant must address the following deficiencies regarding the Family Dollar elevations:
   a) The applicant has not provided calculations of the facade glazing and massing. The applicant must provide calculations of the facade glazing and massing in to ensure compliance with Section 6.8 of the LDRs.

Response: Please see attached revised architectural plans.

MISC Comments

3) The applicant's submittal did not contain all past response comments, many of the documents were oriented wrong, and plan sheets were missing out of the plan set (separated). For the Thursday, November 6, 2014 - final - submittal, the applicant MUST include ALL documents (with revisions), plan sheets shall be correlated in the site plan, all documents must be oriented correctly, and the submittal must meet the submittal requirements established by the City of Alachua.

Response: Please see complete submittal as requested meeting submittal requirements of the City of Alachua.

We trust this information is sufficient for you to complete your review. Please feel free to contact me should you have any questions or comments.

Sincerely,

Andres Boral, E.I.
MAASTRICHT ENGINEERING, INC.

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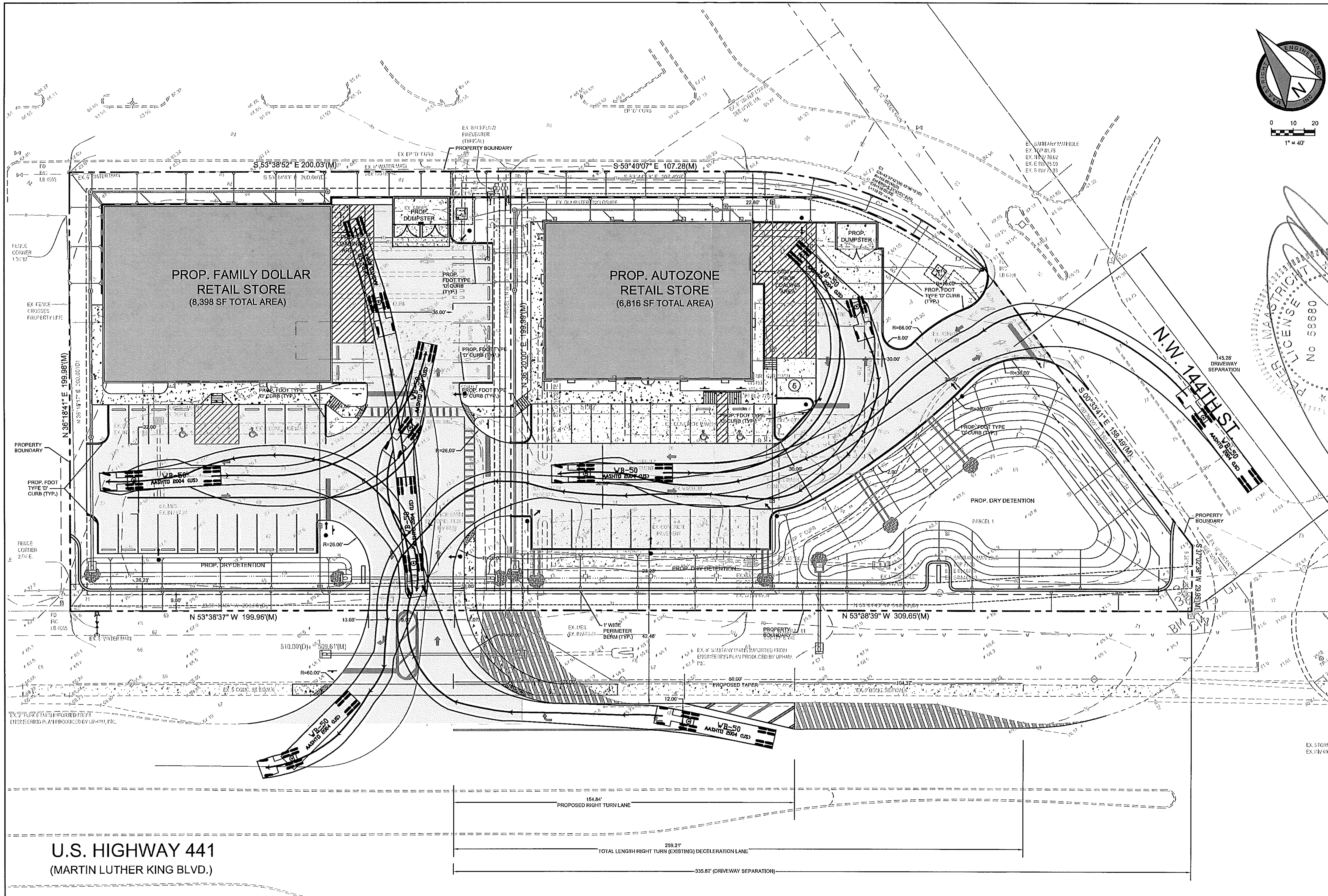

Consultant:

MAASTRICHT ENGINEERING

12800 UNIVERSITY DRIVE, SUITE 402
FORT MYERS, FL 33907
TEL. (239) 362-1605 FAX. (239) 267-8704
WWW. MAASTRICHT-ENG.COM FBPE # 28825

Owner/Developer
FAMILY DOLLAR:
HAMILTON DEVELOPMENT INC.
495 Highway 174, P.O. Box 10
Edisto Island, SC 29438
AUTOZONE INC.
123 South Front Street, 3rd Floor
Memphis, Tennessee 38103
Tel: (901) 495-8709 Fax: (901) 495-8969

PETER MAASTRICHT, P.E.
FLORIDA LICENSE NUMBER: 58680

ALACHUA

FAMILY DOLLAR & AUTOZONE STORE # 4997
15483 & 15535 N.W. US HWY 441, ALACHUA
ALACHUA COUNTY, FLORIDA, 32615

WB 50 DELIVERY TRUCK- TURN EXHIBIT

SCALE: 1"=40'

REVISIONS

1.
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3.
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ARCHITECT: N/A
DRAFTSMAN: ES
CHECKED BY: AB
DATE 09-03-14
PROTOTYPE SIZE N/A

TT-AZ

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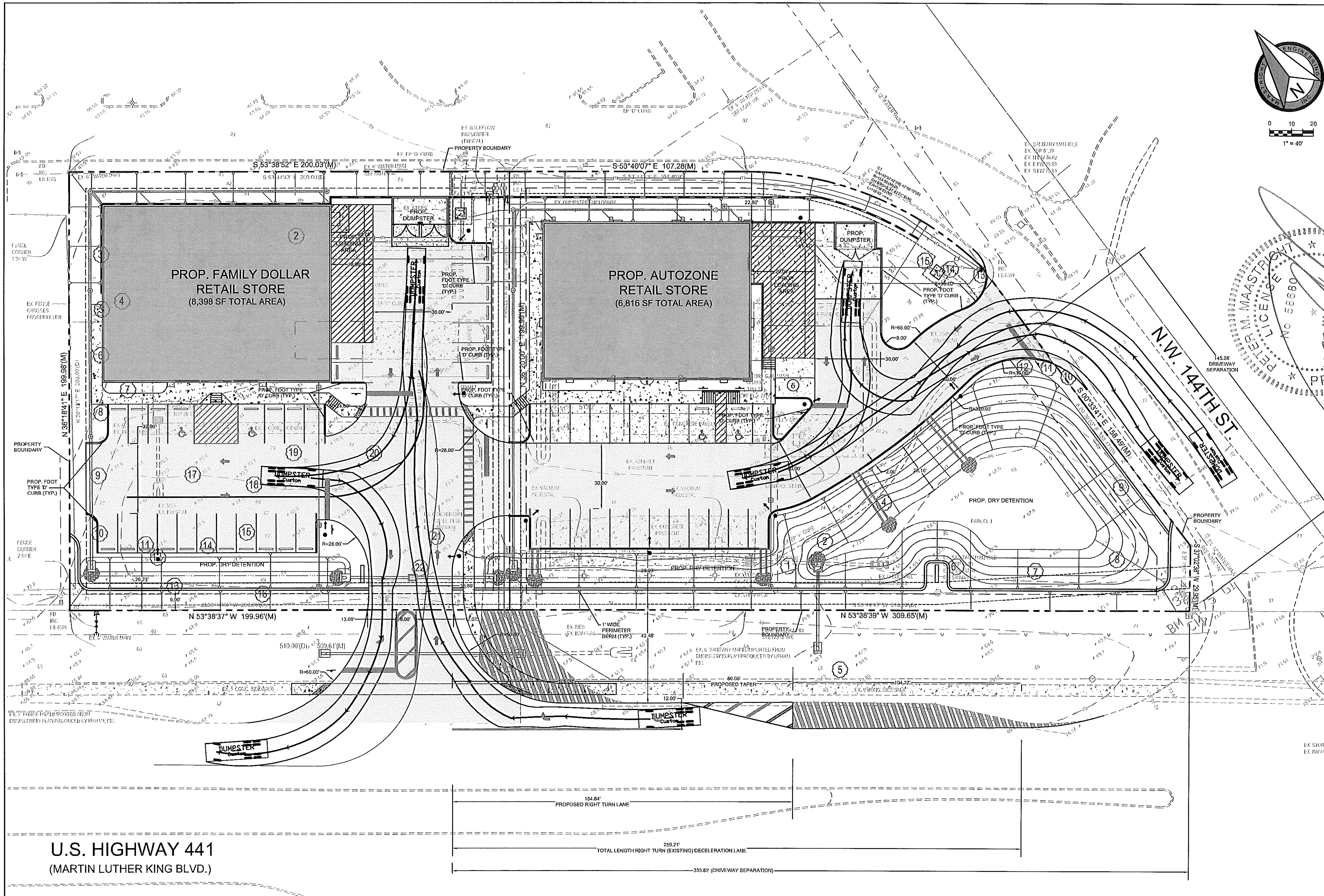

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PETER M. MAASTRICHT, P.E.
FLORIDA LICENSE NUMBER: 58680

10-27-14

ALACHUA
FAMILY DOLLAR & AUTOZONE STORE # 4997
15483 & 15535 N.W. US HWY 441, ALACHUA
ALACHUA COUNTY, FLORIDA, 32615

28 FT. WASTE COLLECTION TRUCK- TURN EXHIBIT

SCALE: 1"=40'

REVISIONS
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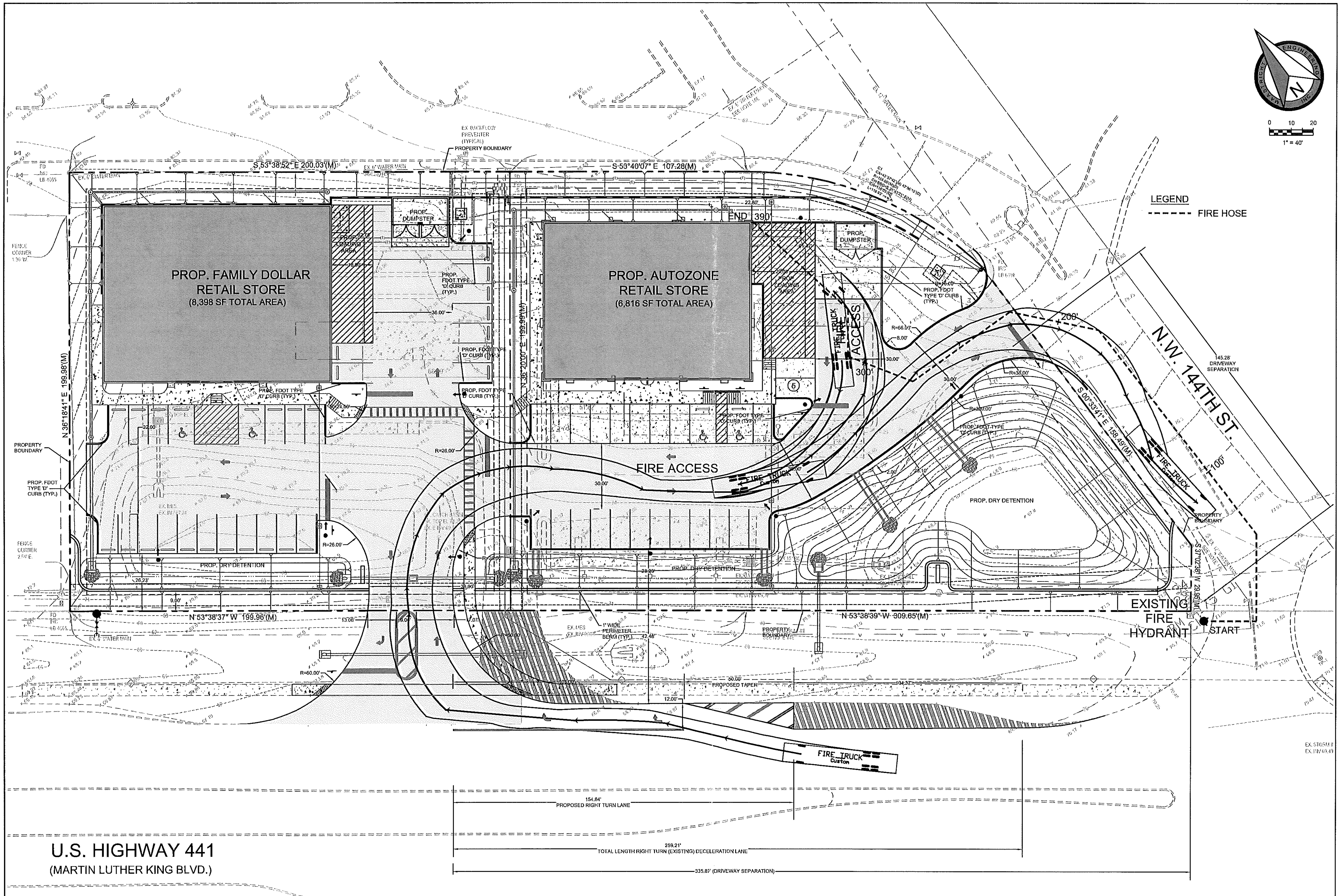
ARCHITECT: N/A
DRAFTSMAN: ES
CHECKED BY: AB
DATE 09-03-14
PROTOTYPE SIZE N/A

TT-SITE DUMP.



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PETER M. MAASTRICHT, P.E.
FLORIDA LICENSE NUMBER: 58680

ALACHUA
FAMILY DOLLAR & AUTOZONE STORE # 4997
15483 & 15535 N.W. US HWY 441, ALACHUA
ALACHUA COUNTY, FLORIDA, 32615

52 FT. (FIRE) TRUCK- TURN EXHIBIT - AUTOZONE

SCALE: 1"=40'

REVISIONS
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ARCHITECT: N/A
DRAFTSMAN: ES
CHECKED BY: AB
DATE 09-03-14
PROTOTYPE SIZE N/A

TT-AZ
FIRE

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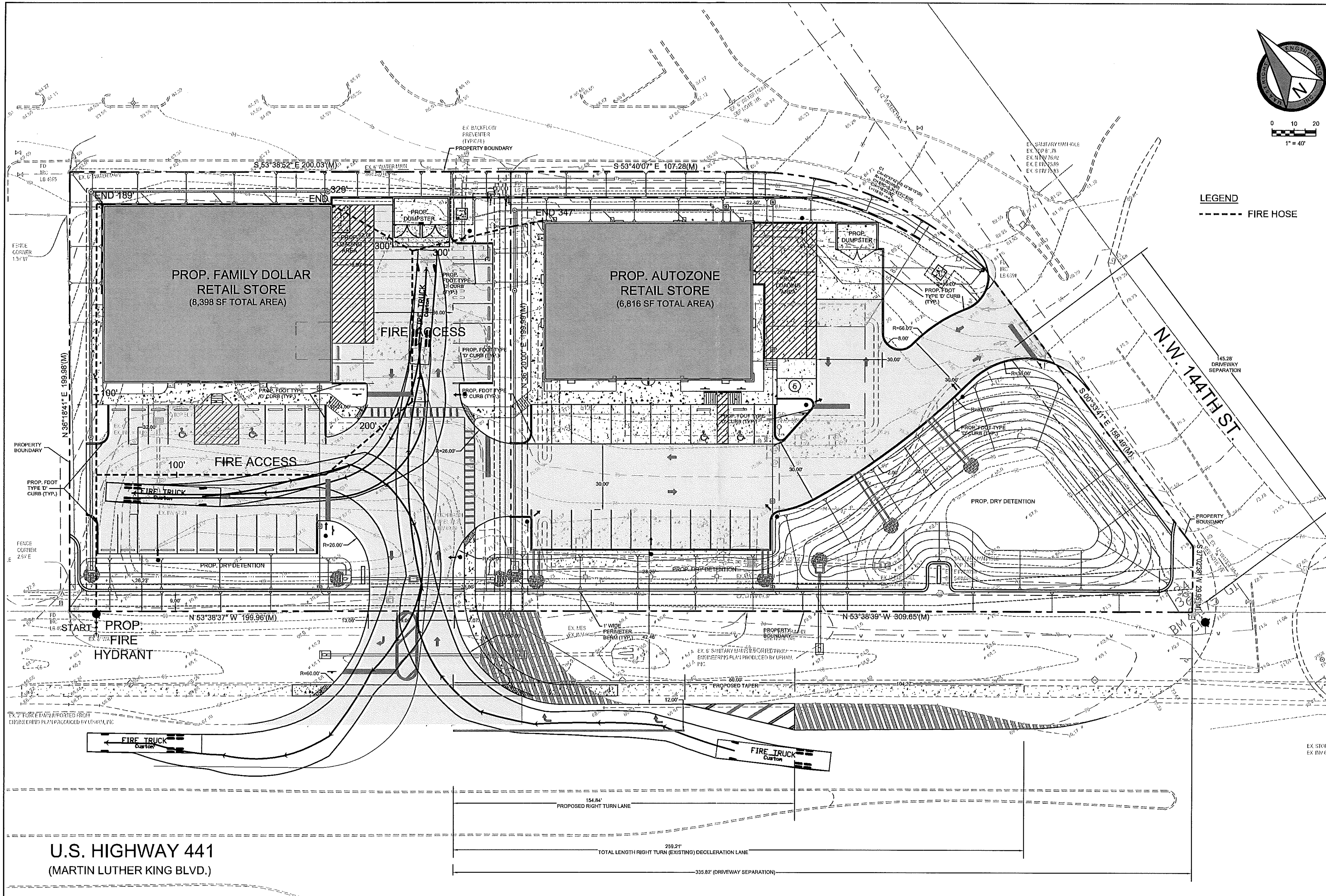

Consultant:

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15483 & 15535 N.W. US HWY 441, ALACHUA
ALACHUA COUNTY, FLORIDA, 32615

52 FT. (FIRE) TRUCK- TURN EXHIBIT - FAMILY DOLLAR

SCALE: 1"=40'

REVISIONS
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ARCHITECT: N/A
DRAFTSMAN: ES
CHECKED BY: AB
DATE 09-03-14
PROTOTYPE SIZE N/A

TT-FD
FIRE