

STRUCTURE TABLE

FAMILY DOLLAR

- S-1
PROP. MES (FDOT INDEX #273)
I.E. = 72.43' (10" SCH. 40 PVC)
- S-2
PROP. MES (FDOT INDEX #273)
I.E. = 70.40'
- S-3
PROP. TYPE V INLET
W/USF 6657 GRATE
G.E. = 72.40'
I.E. (W.) = 70.20' (12" RCP)
I.E. (E.) = 70.20' (15" RCP)
SUMP = 68.00'
- S-4
PROP. MES (FDOT INDEX #273)
I.E. = 70.00' (12" ADS N-12)
- S-5
PROP. MES (FDOT INDEX #273)
I.E. = 66.75' (18" RCP)
- S-6
PROP. MES (FDOT INDEX #273)
I.E. = 67.75' (18" RCP)

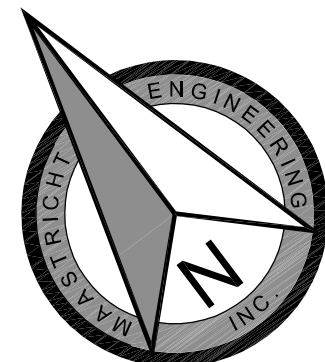
STRUCTURE TABLE

AUTOZONE

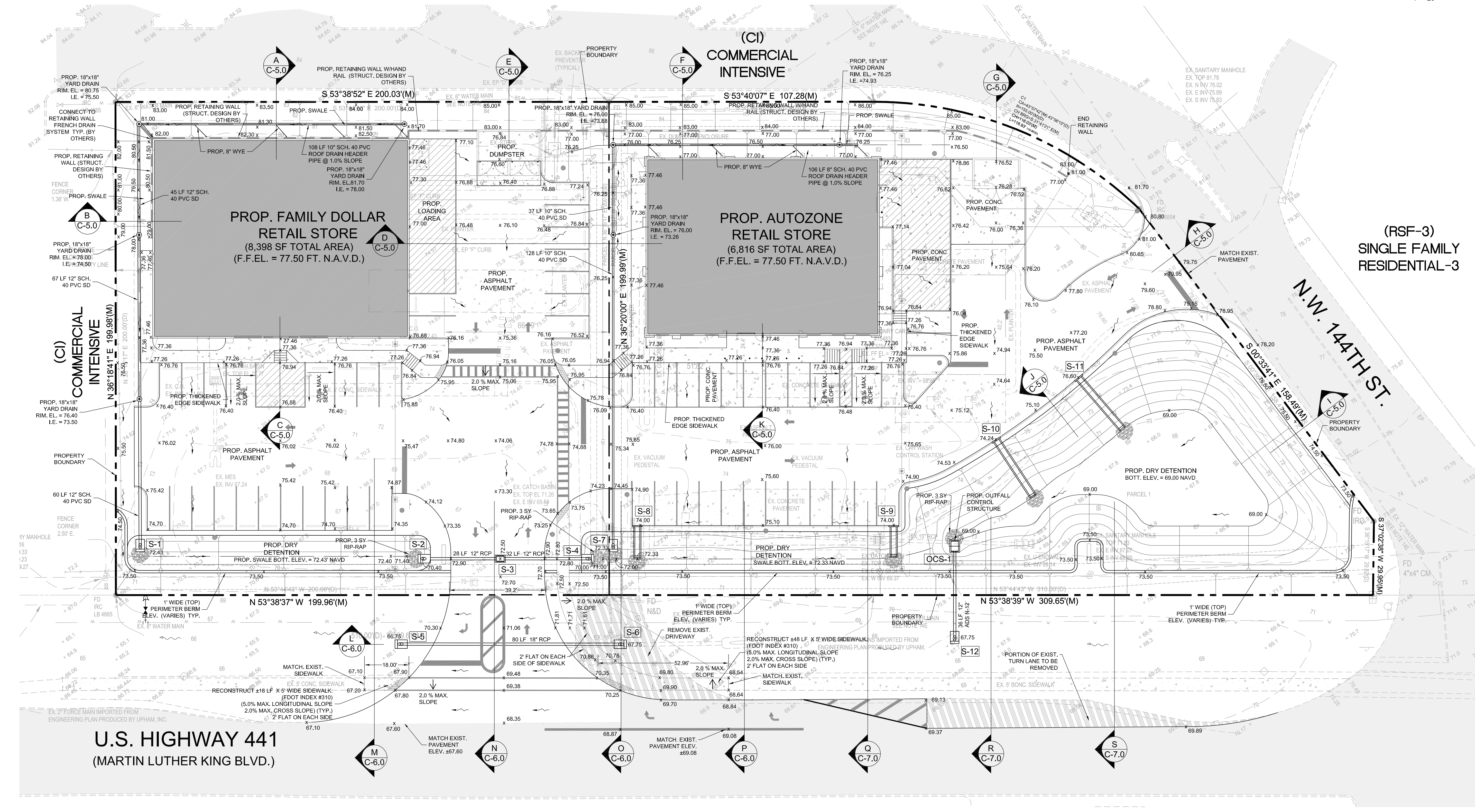
- OCS-1
OUTFALL CONTROL STRUCTURE
MODIFIED TYPE 'C' INLET
W/USF 6610 GRATE
G.E. = 72.00'
I.E. (S.) = 68.00' (12" ADS N-12)
3"Ø BLEEDER W.I.E. = 68.00'
SUMP = 66.00'
- S-7
PROP. MES (FDOT INDEX #273)
I.E. = 72.33' (10" SCH. 40 PVC)
- S-8
PROP. CONC. FLUME
TOP = 74.00'
BOTT. = 72.33'
- S-9
PROP. CONC. FLUME
TOP = 74.00'
BOTT. = 72.33'
- S-10
PROP. CONC. FLUME
TOP = 74.24'
BOTT. = 69.00'
- S-11
PROP. CONC. FLUME
TOP = 76.60'
BOTT. = 69.00'
- S-12
PROP. MES (FDOT INDEX #273)
I.E. = 67.75' (12" ADS N-12)

NOTE:
ALL CRITICAL SPOT GRADES ALONG CURBS
ARE BOTTOM OF CURB ELEVATIONS UNLESS
OTHERWISE SPECIFIED.

NOTE:
AUTOZONE CONTRACTOR TO
CONSTRUCT ALL
IMPROVEMENTS WITHIN THE
AUTOZONE PROPERTY
BOUNDARY ONLY



0 10 20
1" = 20'



ALACHUA

FAMILY DOLLAR & AUTOZONE STORE # 4997

15483 & 15535 N.W. US HWY 441, ALACHUA

ALACHUA COUNTY, FLORIDA, 32615

GRADING, PAVING & DRAINAGE PLAN

SCALE: 1"=20'

REVISIONS

1. REV. PER CITY OF ALACHUA
2. COMMENTS 10/23/14
- 3.
- 4.
- 5.
- 6.
- 7.

ARCHITECT: N/A

DRAFTSMAN: ES

CHECKED BY: AB

DATE

09-03-14

PROTOTYPE SIZE

N/A

C-3.0

FAMILY DOLLAR
FIRE FLOW CALCULATIONS

BASED ON NFPA 1 - FIRE CODE - LATEST EDITION, CHAPTER 18, TABLE 18.4.5.1.2 "MINIMUM REQUIRED FIRE FLOW AND FLOW DURATION FOR BUILDINGS", A MINIMUM OF 2,500 GPM IS REQUIRED FOR BUILDINGS 7,701-9,400 SF FOR TYPE FBC 2010 V(B) CONSTRUCTION (PER NFPA 220).

FF REQUIRED = 2,500 GPM
FF AVAILABLE = 9,245 GPM
(REFER TO HYDRAULIC ANALYSIS)

ESTIMATE OF AVERAGE DAILY
FLOW DEMAND FOR POTABLE
WATER / SANITARY SEWER

FAMILY DOLLAR BUILDING (8,398 SF AC. AREA)

THE ESTIMATED PROPOSED DAILY DEMANDS ARE AS FOLLOWS:

TOTAL

1,035 GPD TOTAL FOR WATER AND SEWER BASED ON F.A.C.

CHAPTER 64E-6.008

WASTE GENERATED BY PROPOSED FACILITY: DOMESTIC

AUTOZONE
FIRE FLOW CALCULATIONS

BASED ON NFPA 1 - FIRE CODE - LATEST EDITION, CHAPTER 18, TABLE 18.4.5.1.2 "MINIMUM REQUIRED FIRE FLOW AND FLOW DURATION FOR BUILDINGS", A MINIMUM OF 2,250 GPM IS REQUIRED FOR BUILDINGS 6,201-7,700 SF FOR TYPE FBC 2010 V(B) CONSTRUCTION (PER NFPA 220).

FF REQUIRED = 2,250 GPM
FF AVAILABLE = 9,245 GPM
(REFER TO HYDRAULIC ANALYSIS)

ESTIMATE OF AVERAGE DAILY
FLOW DEMAND FOR POTABLE
WATER / SANITARY SEWER

AUTOZONE BUILDING (6,816 SF AC. AREA)

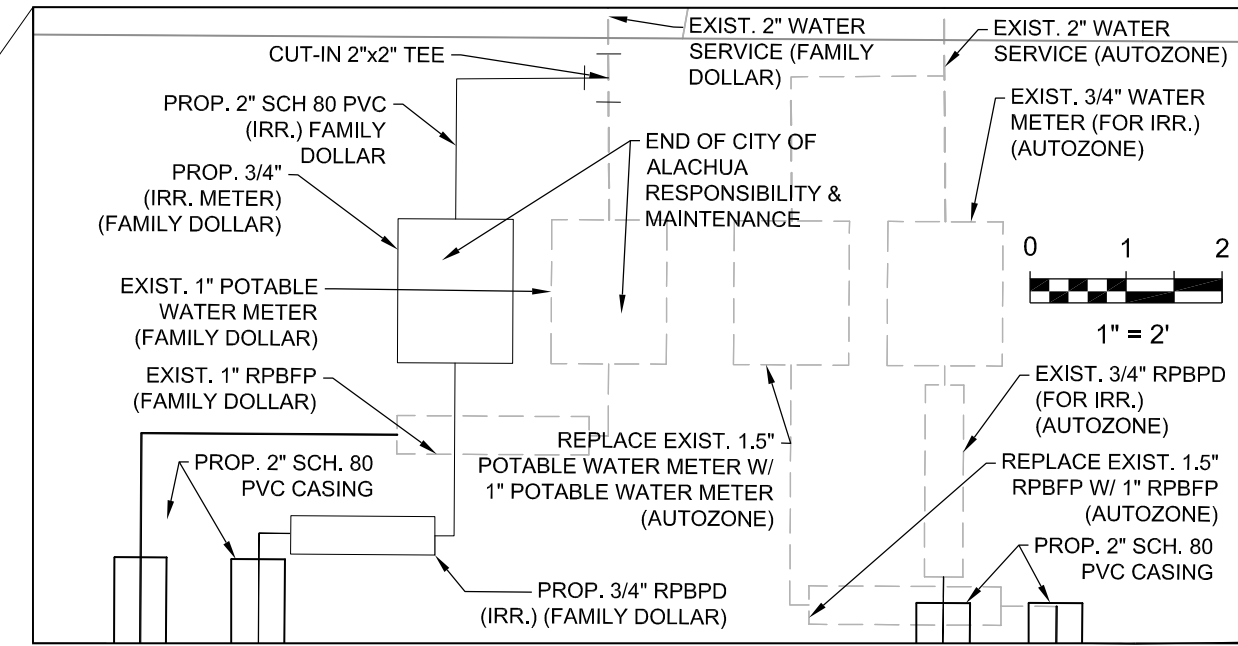
THE ESTIMATED PROPOSED DAILY DEMANDS ARE AS FOLLOWS:

TOTAL

877 GPD TOTAL FOR WATER AND SEWER BASED ON F.A.C.

CHAPTER 64E-6.008

WASTE GENERATED BY PROPOSED FACILITY: DOMESTIC



WATER SERVICE CONFIGURATION DETAIL

W.W. GAY FIRE & INTEGRATED SYSTEMS, INC.

15315 US Hwy 441, Alachua FL

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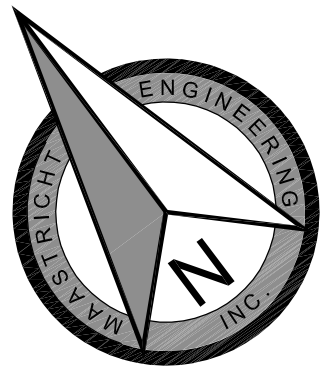
15315 US Hwy 441, Alachua FL

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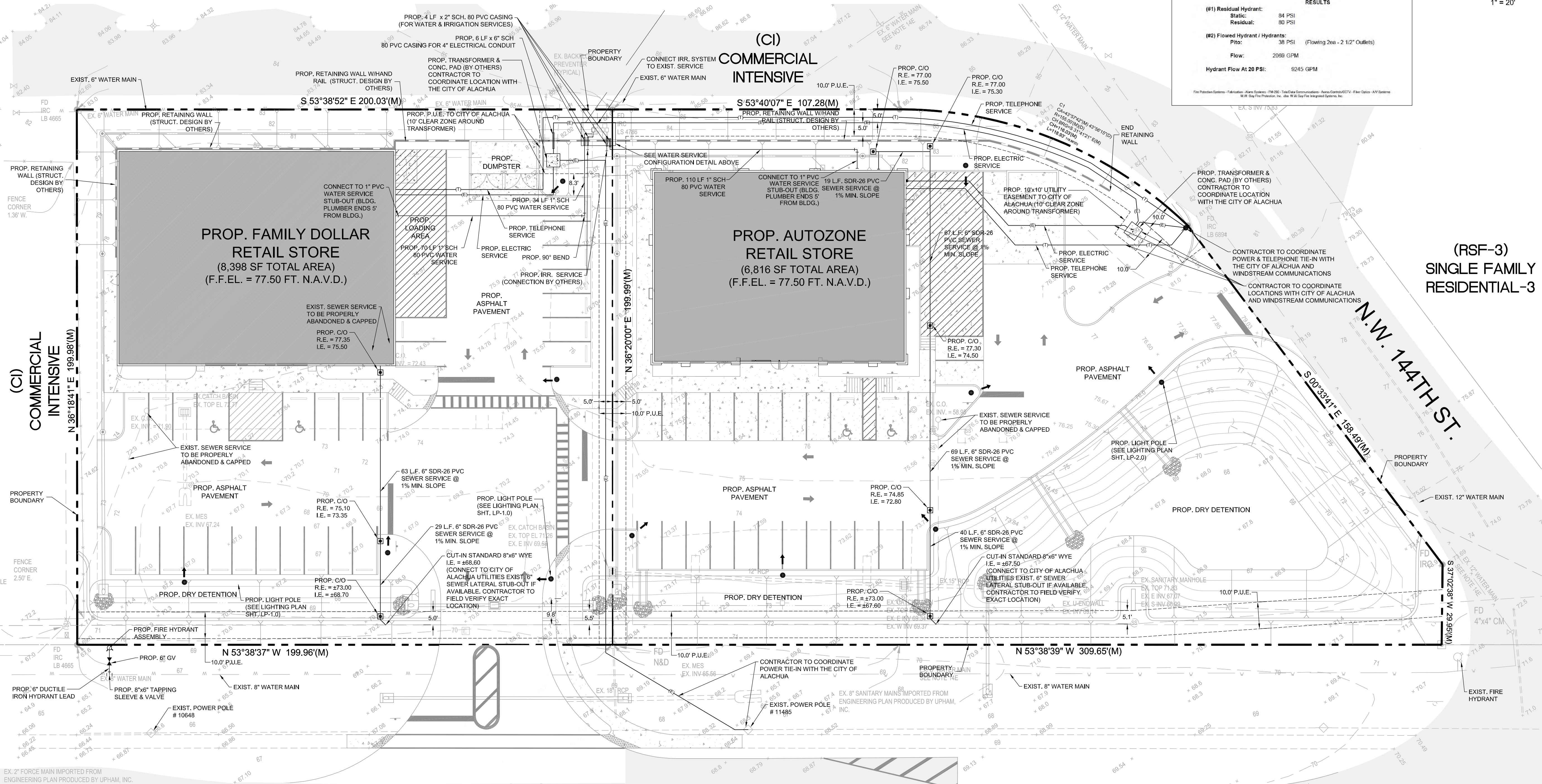
NOTE:
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BOUNDARY ONLY



0 10 20
1" = 20'

FIRE HYDRANT FLOW TEST DATA	
Company:	Mastri Engineering
Address:	15315 US Hwy 441, Alachua FL
Contact:	Name/Title: Andres Boral Phone #: 238-362-1005
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 Technician: Richard Bloom Date: 8/25/2014 Time: 4:30 PM
RESULTS	
(#1) Residual Hydrant:	Static: 94 PSI Residual: 80 PSI
(#2) Flowed Hydrant / Hydrants:	Flow: 2089 GPM Flowed Hydrant: 38 PSI (Flowing Test - 2 1/2" Outlets)
Hydrant Flow At 20 PSI:	6245 GPM

Fire Protection Systems - Fabrication - Alarm Systems - Fire Pumps - Test/Check Communications - Alarm Control/Testing - Flow Control - A-M Systems
W.W. Gay Fire Protection, Inc. - 15315 US Hwy 441, Alachua FL 32009



U.S. HIGHWAY 441
(MARTIN LUTHER KING BLVD.)

MAASTRICHT
ENGINEERING

Owner/Developer:
FAMILY DOLLAR
HAMILTON DEVELOPMENT INC.
15315 US Hwy 441, Box 10
Alachua, FL 32009
AUTOZONE INC
123 South Front Street, 3rd Floor
Memphis, Tennessee 38103
Tel: (901) 495-8709 Fax: (901) 495-8989

PETER M. MAASTRICHT, P.E.
FLORIDA LICENSE NUMBER: 56880

ALACHUA
FAMILY DOLLAR & AUTOZONE STORE # 4997
15483 & 15535 N.W. US HWY 441, ALACHUA
ALACHUA COUNTY, FLORIDA, 32615
UTILITY PLAN

SCALE: 1"=20'

REVISIONS

1. REV. PER CITY OF ALACHUA COMMENTS 10/23/14
2. REV. PER CITY OF ALACHUA COMMENTS 10/23/14
- 3.
- 4.
- 5.
- 6.
- 7.

ARCHITECT: N/A

DRAFTSMAN: ES

CHECKED BY: AB

DATE

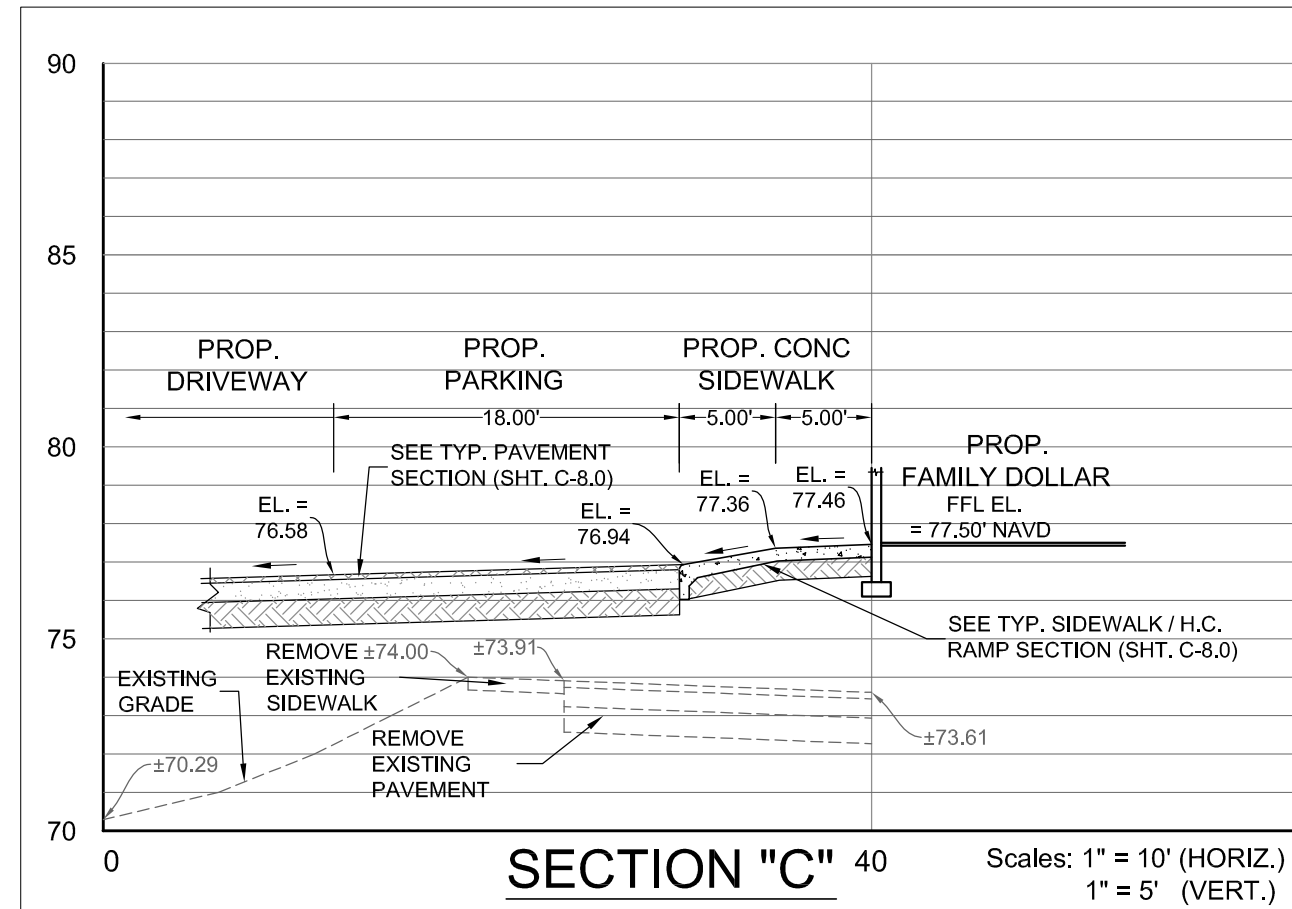
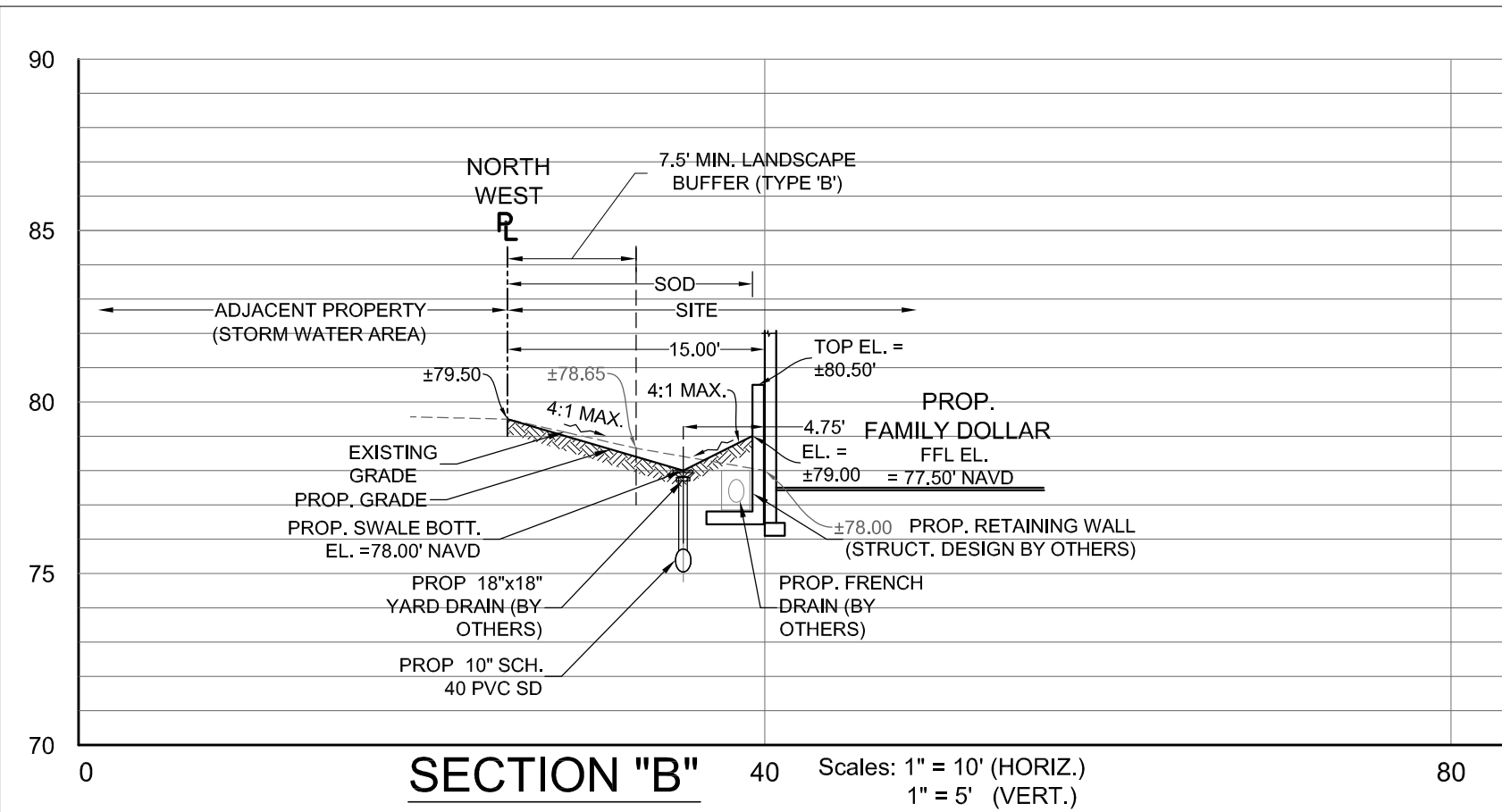
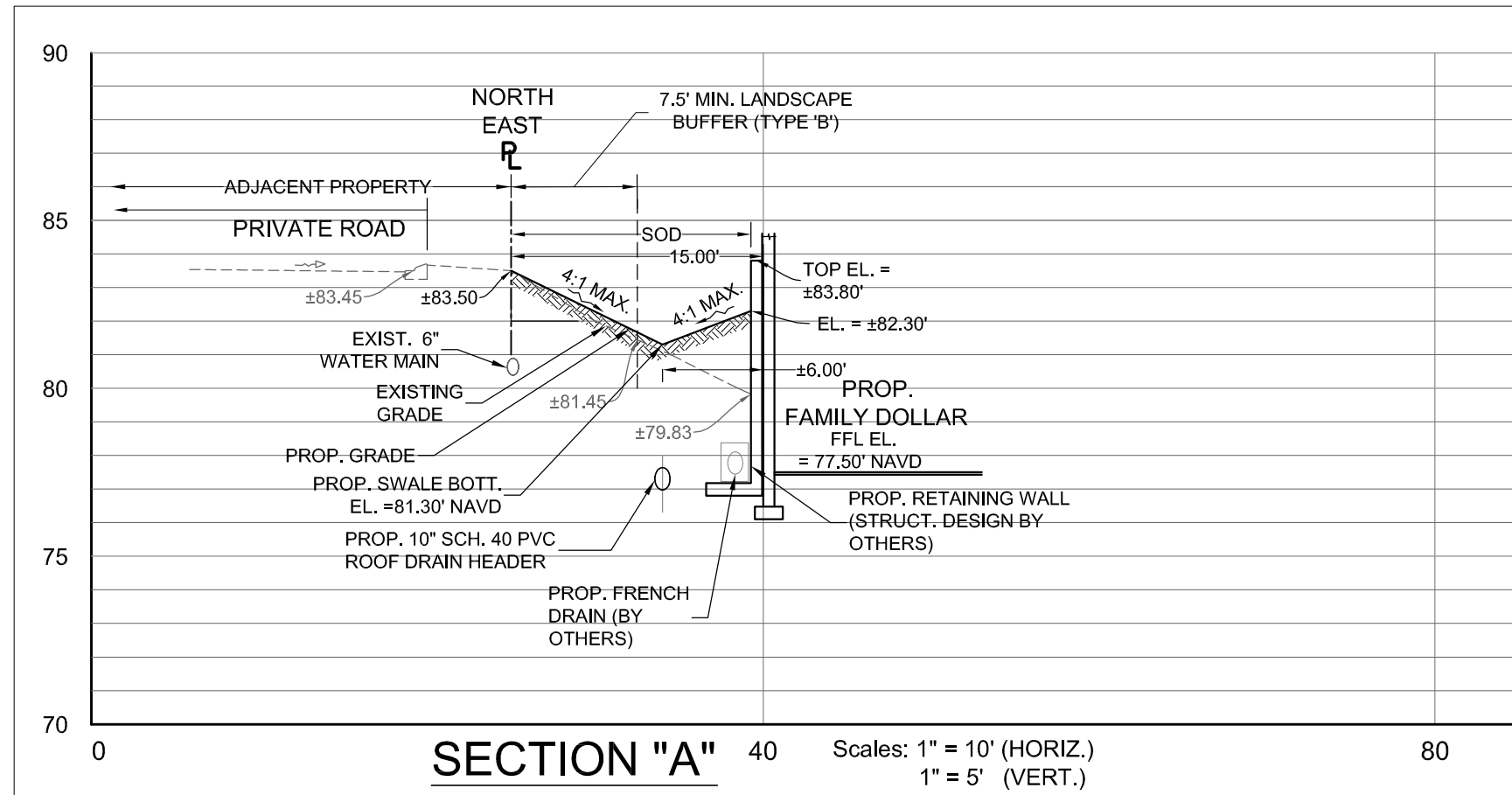
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PROTOTYPE SIZE

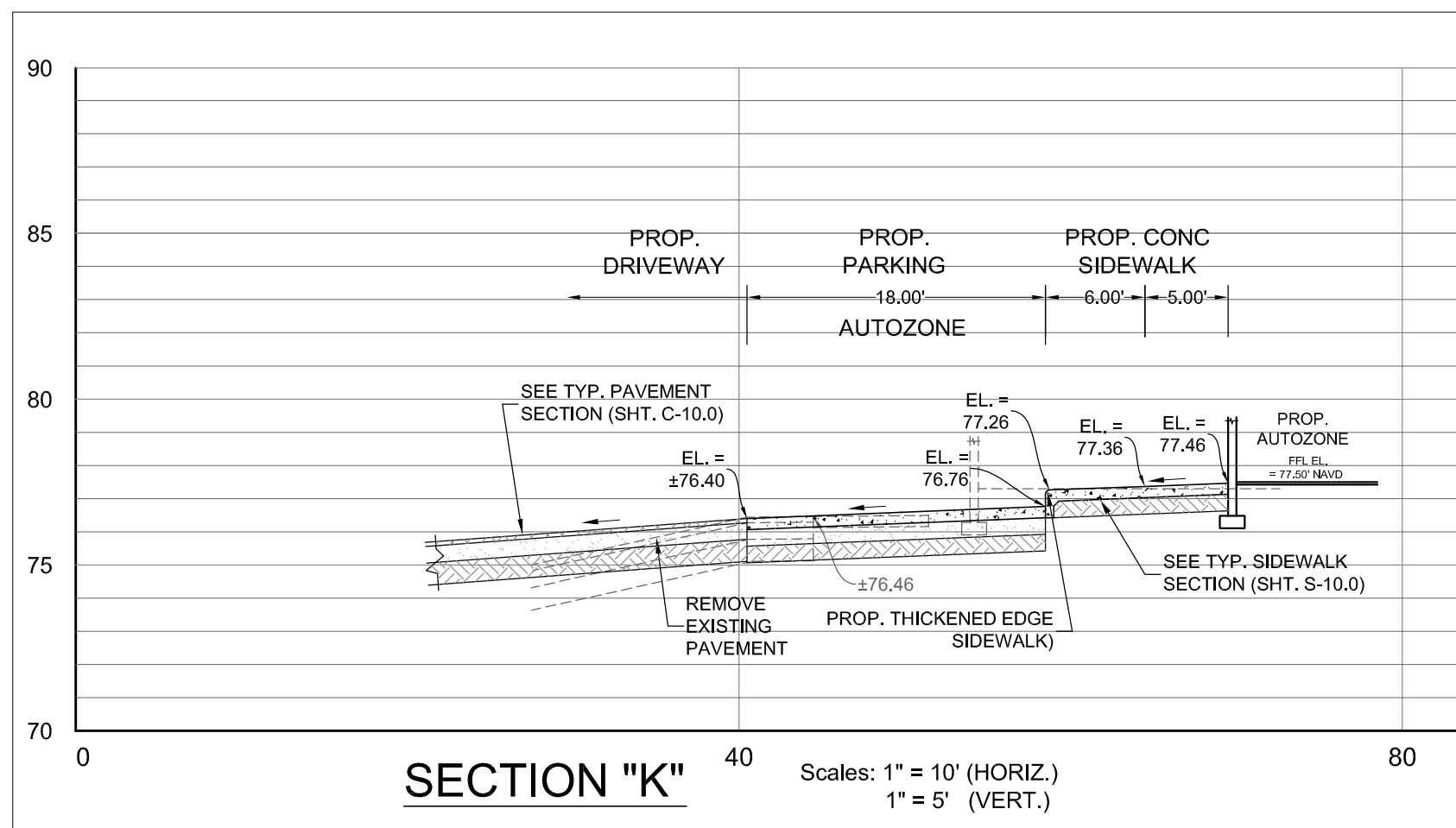
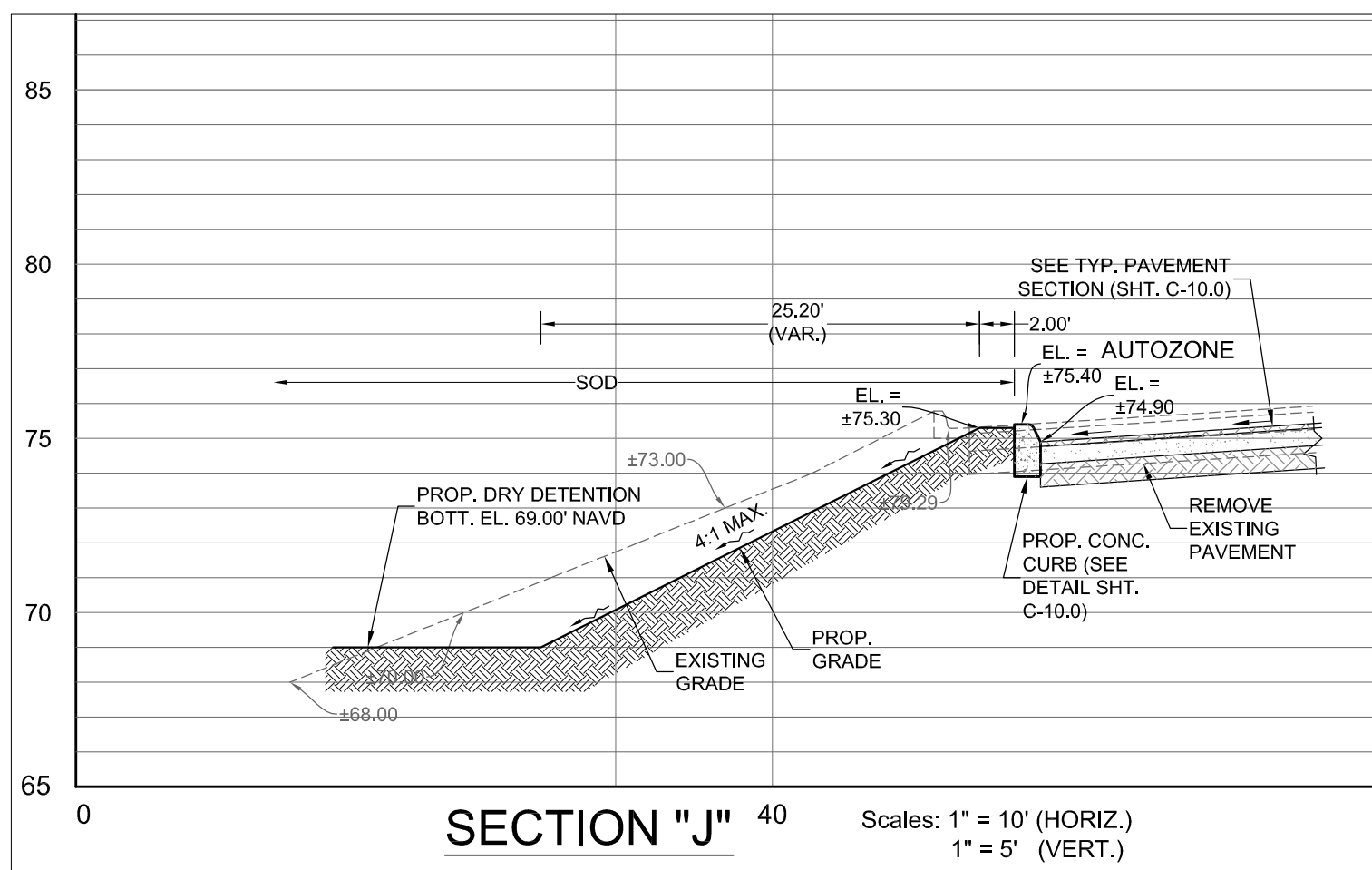
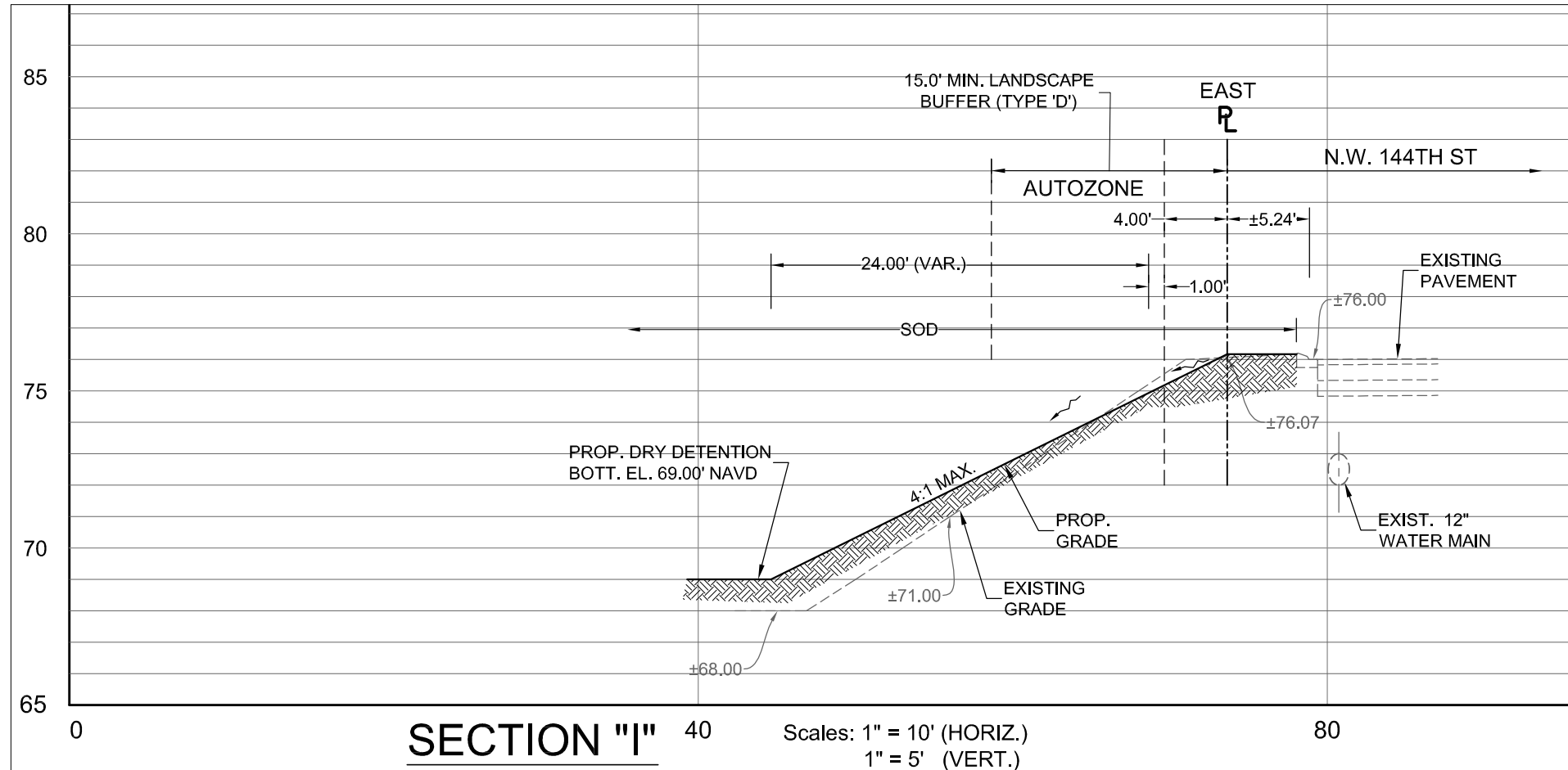
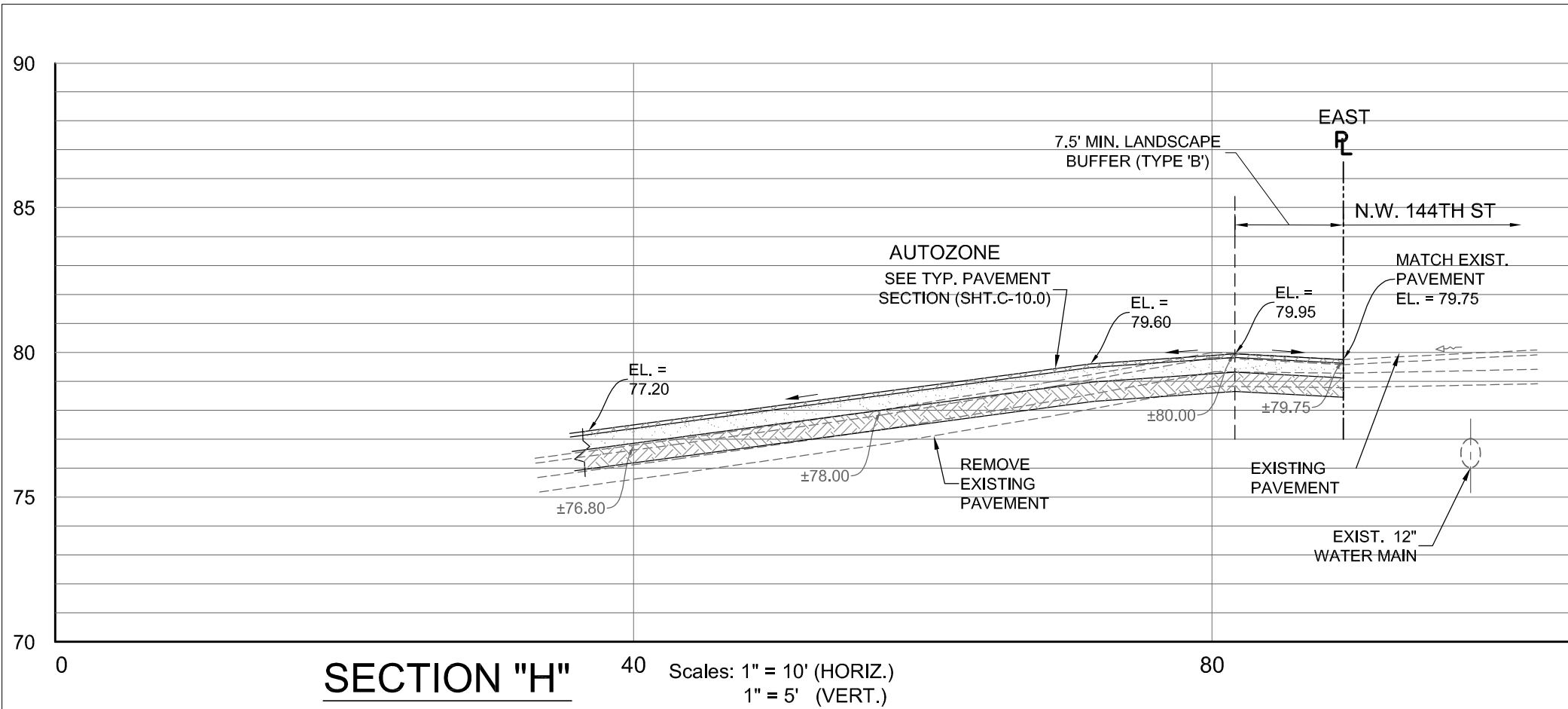
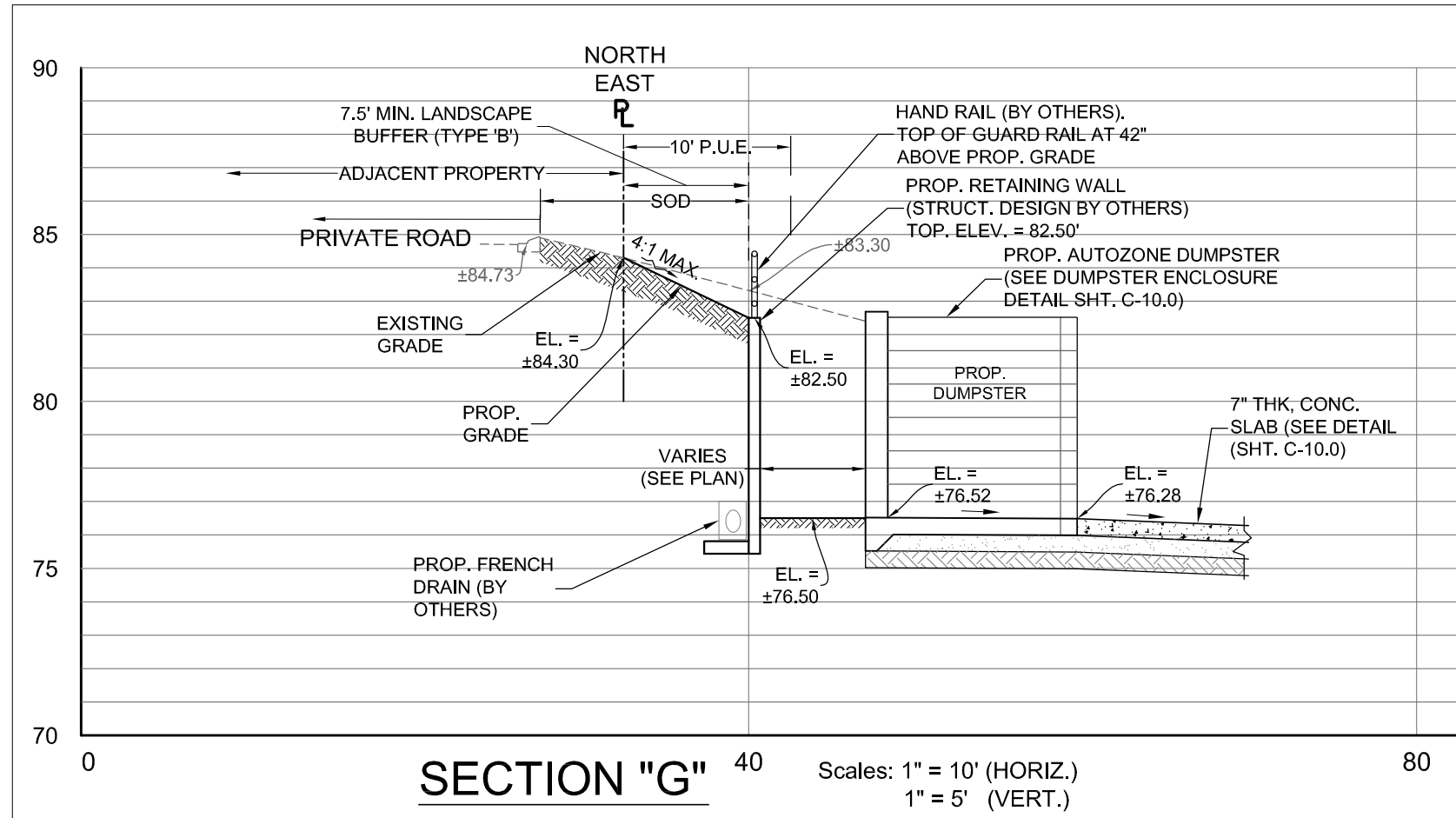
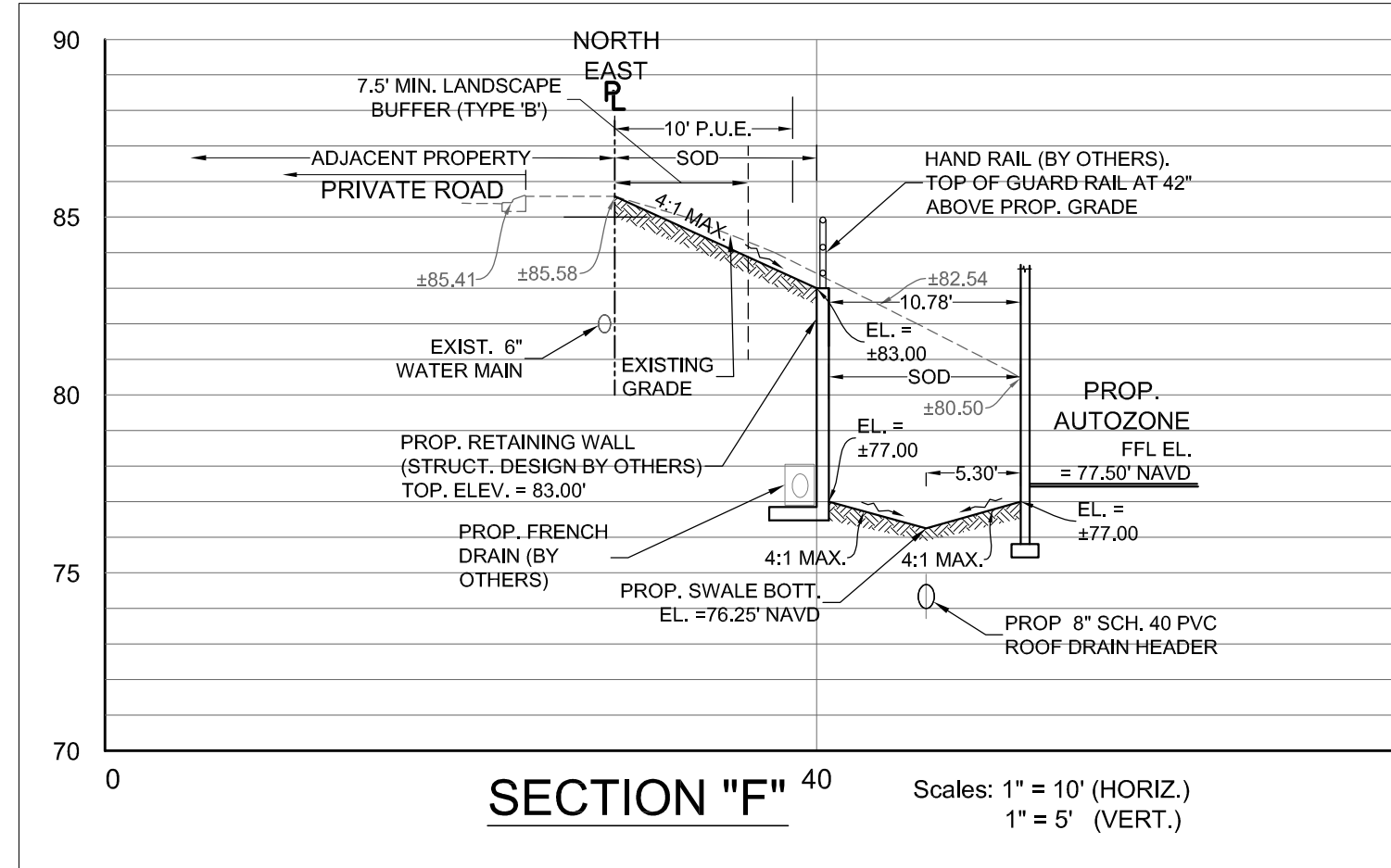
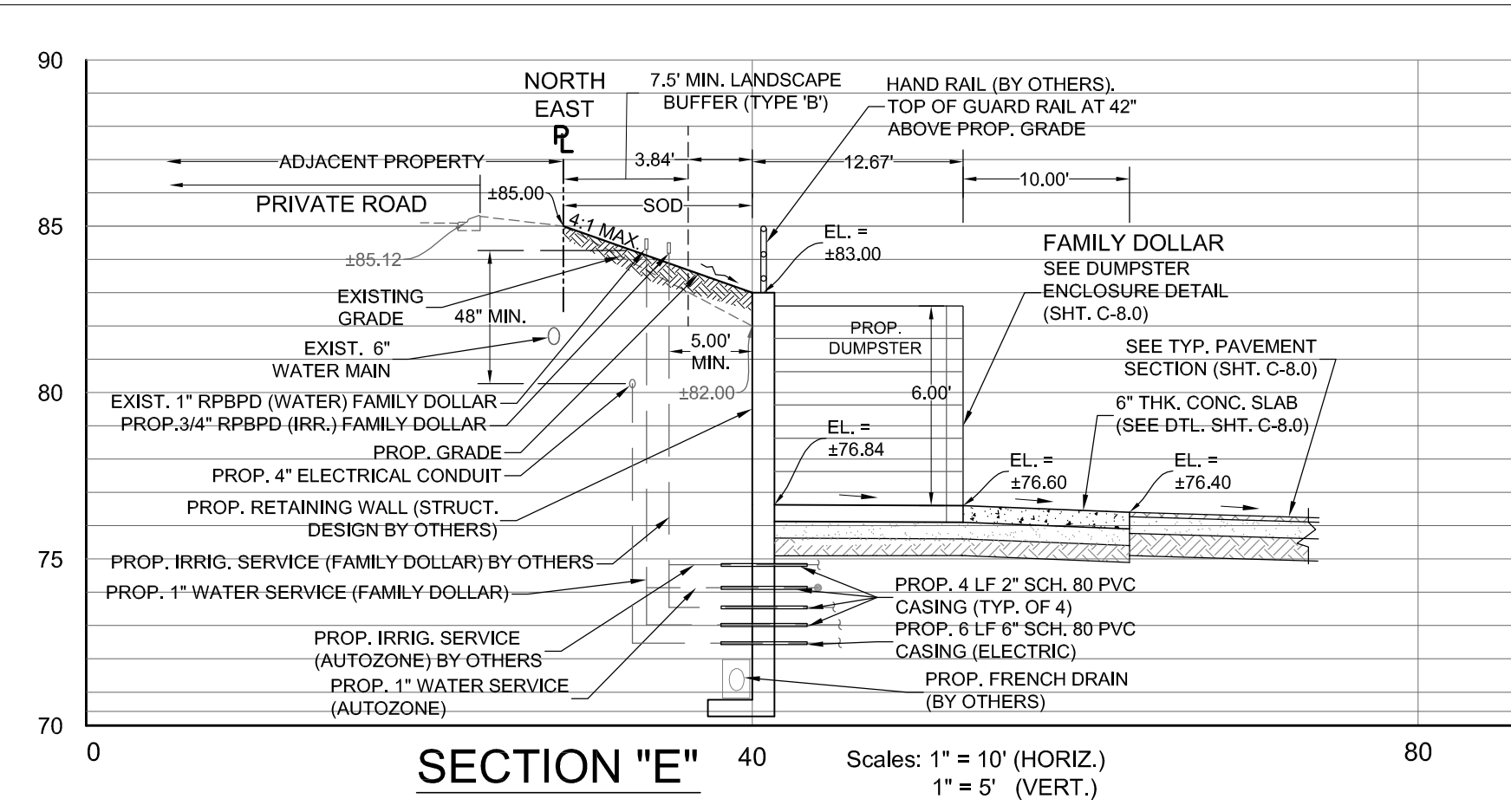
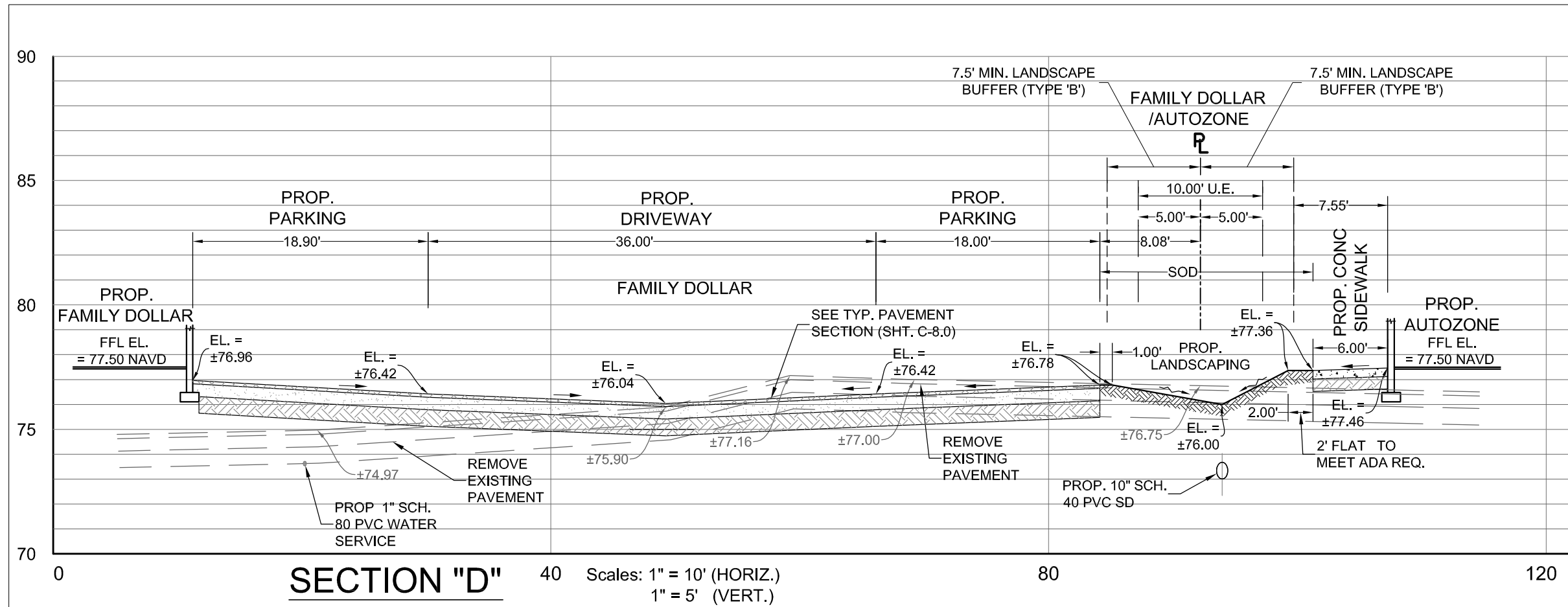
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NOTE:
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AUTOZONE PROPERTY
BOUNDARY ONLY



MAASTRICHT
ENGINEERING

12800 UNIVERSITY DRIVE, SUITE 402
MEMPHIS, TENNESSEE 38103
TEL: (901) 952-1605 FAX: (901) 952-1606
WWW.MAASTRICHT-ENG.COM

Owner / Developer:
FAMILY DOLLAR
HAMILTON DEVELOPMENT INC.
185 Highway 100, Box 10
East Troy, WI 53120
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123 South Front Street, 3rd Floor
Memphis, Tennessee 38103
Tel: (901) 955-8709 Fax: (901) 955-8969

ALACHUA
FAMILY DOLLAR & AUTOZONE STORE # 4997
15483 & 15535 N.W. US HWY 441, ALACHUA
ALACHUA COUNTY, FLORIDA, 32615
CROSS SECTIONS 1

SCALE: AS SHOWN

REVISIONS

1. REV. PER CITY OF ALACHUA
COMMENTS 5/24/14

2.

3.

4.

5.

6.

7.

ARCHITECT: N/A

DRAFTSMAN: ES

CHECKED BY: AB

DATE
09-03-14

PROTOTYPE SIZE
N/A

C-5.0