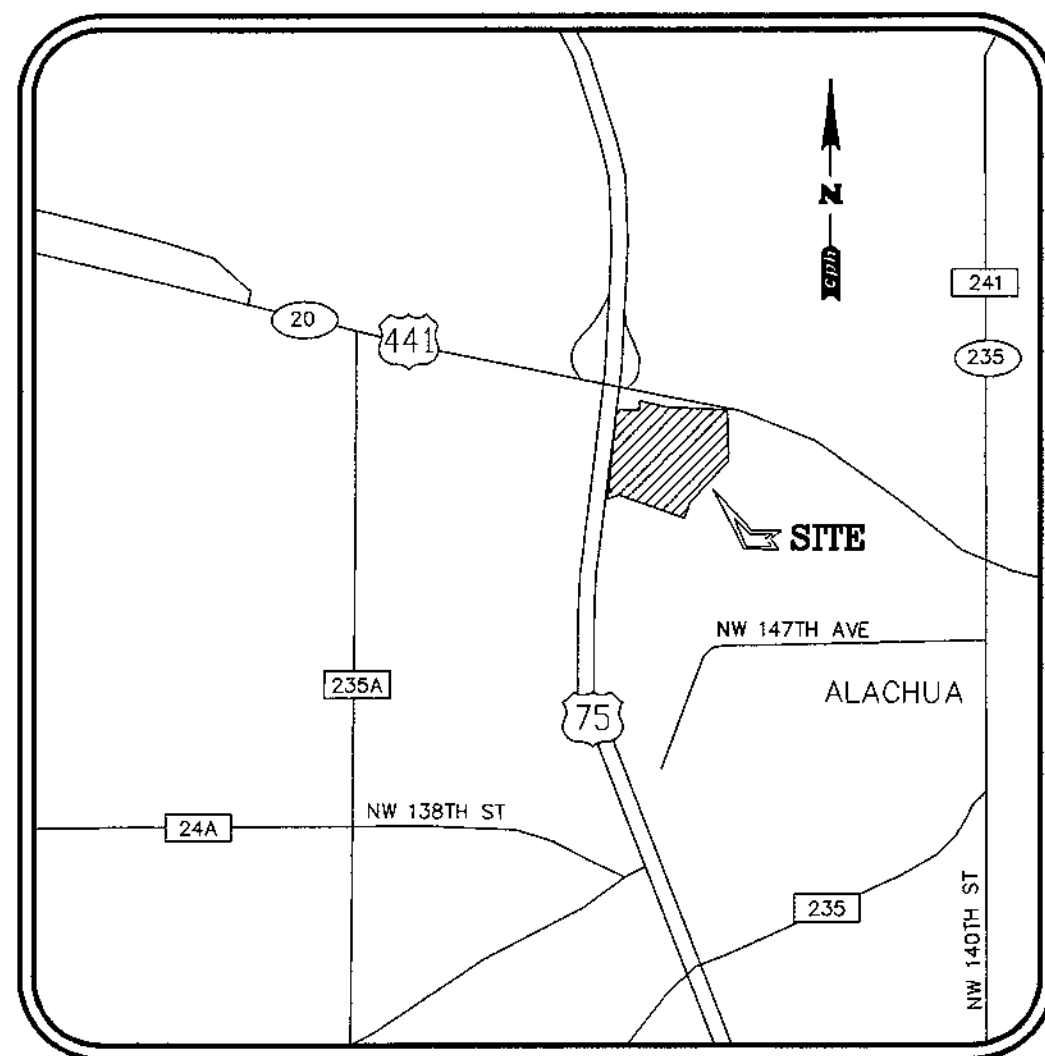


SITE IMPROVEMENT PLANS FOR



STORE NO. 3873-00 ALACHUA, FLORIDA



ALACHUA, FLORIDA
SECTIONS 9,10,15, & 16 - TOWNSHIP 8 SOUTH
- RANGE 18 EAST
VICINITY MAP
N.T.S.

OWNER/DEVELOPER

WAL-MART STORES EAST, LP
500 W. FULTON STREET
BENTONVILLE, ARKANSAS 72712-6489
(501) 273-4000

ENGINEER

C.P.H. ENGINEERS, INC.
500 W. FULTON STREET
SANFORD, FLORIDA 32771
(407) 322-6841
ATTN.: HOWARD L. WRAY, JR., P.E.

SURVEYOR:

CPH ENGINEERS, INC.
500 WEST FULTON STREET
SANFORD, FLORIDA 32771
407-322-6841
ATTN.: THOMAS GALLOWAY, P.S.M.

SOIL CONSULTANT:

UNIVERSAL ENGINEERING SCIENCES, INC.
4475 SW 35TH TERRACE
GAINESVILLE, FLORIDA 32608
352-372-3392
ATTN.: KEITH BUTTS, P.E.

ENVIRONMENTAL CONSULTANT:

UNIVERSAL ENGINEERING SCIENCES, INC.
4475 SW 35TH TERRACE
GAINESVILLE, FLORIDA 32608
352-372-3392
ATTN.: ANDREW T. SCHMID

WETLANDS CONSULTANT:

CPH ENGINEERS, INC.
500 WEST FULTON STREET
SANFORD, FLORIDA 32771
407-322-6841
ATTN.: AMY WRIGHT

TRAFFIC CONSULTANT:

TRAFFIC PLANNING AND DESIGN, INC.
535 VERSAILLES DRIVE, SUITE 200
200 MAITLAND, FLORIDA 32751-7305
407-628-9955
ATTN.: TURGUT DERVISH

PERMITTING AGENCIES:

CITY OF ALACHUA P.O. BOX 9
ALACHUA, FLORIDA 32616-0009
386-462-1231

FDOT DRIVEWAY AND STORM DRAINAGE

5301 N.E. 39TH AVENUE
GAINESVILLE, FLORIDA 32609
352-381-4314
ATTN.: ROBBIE EMMONS, PERMITS COORDINATOR

SUWANNEE RIVER WATER MANAGEMENT DISTRICT

9225 C.R. 49
LIVE OAK, FLORIDA 32060
386-362-1001
ATTN.: CLAY COARSEY, RESOURCE MANAGEMENT STAFF

FDEP WATER AND WASTEWATER

7825 BAYMEADOWS WAYS, SUITE 200B
JACKSONVILLE, FLORIDA 32256-7590
904-807-3300

UTILITY RESPONSIBILITY MATRIX FOR THIS PROJECT

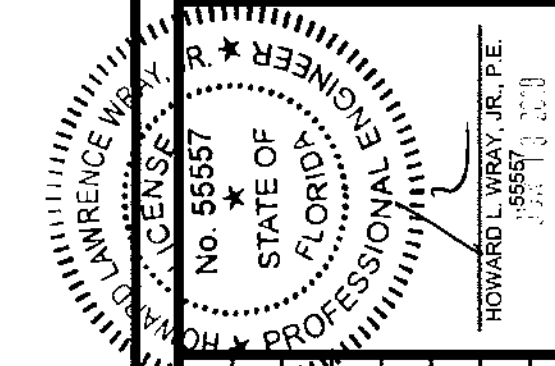
UTILITY/GOVERNING AGENCIES CONTACTS	CONTRACTOR RESPONSIBILITY-	OTHERS RESPONSIBILITY-
GAS GAINESVILLE REGIONAL UTILITIES P.O. BOX 988 GAINESVILLE, FLORIDA 32614-7117 (352) 334-6078 ATTN: PHILIP D. LANCASTER, PE	- COORDINATE CONSTRUCTION ACTIVITIES WITH GAS COMPANY TO ENSURE INSTALLATION OF GAS LINES ARE COMPLETED OR WILL NOT CONFLICT WITH PROPOSED ASPHALT OR CURB CONSTRUCTION SCHEDULING. - INSTALL BOLLARD PROTECTION AS SHOWN ON THE PLANS AND PER GAS COMPANY REQUIREMENTS. - INSTALL 4" & 6" SCHEDULE 80 PVC CONDUITS UNDER PAVEMENT AT LOCATIONS NOTED ON PLANS PER GAS COMPANY REQUIREMENTS.	- SERVICE FROM THE POINT OF CONNECTION AT THE EXISTING LINE, ROW MAIN AND OUT PARCEL SERVICE STUB UPS AND INCLUDING SETTING OF METER WILL BE BY THE GAS COMPANY
TELEPHONE WINDSTREAM FLORIDA P.O. BOX 9 ALACHUA, FLORIDA 32616 (386) 462-6525 ATTN: DAN DRAIN	- COORDINATE CONSTRUCTION ACTIVITIES WITH TELEPHONE COMPANY TO ENSURE INSTALLATION OF TELEPHONE LINES ARE COMPLETED OR WILL NOT CONFLICT WITH PROPOSED ASPHALT OR CURB CONSTRUCTION SCHEDULING. - UNDER ROADWAY PAVEMENT PROVIDE AND INSTALL (1) 4" SCHEDULE 80 PVC CONDUITS @ 48" MINIMUM DEPTH AT LOCATIONS NOTED ON PLANS PER PHONE COMPANY SPECIFICATIONS. ENDS OF CONDUIT SHALL BE TURNED UP AND MARKED WITH THE LETTER "T" FOR EASY IDENTIFICATION. - UNDER PARKING LOT PAVEMENT AND ENTERING BUILDINGS PROVIDE AND INSTALL (1) 3" SCHEDULE 80 PVC CONDUITS @ 48" MINIMUM DEPTH AT LOCATIONS NOTED ON PLANS PER PHONE COMPANY SPECIFICATIONS. ENDS OF CONDUIT SHALL BE TURNED UP AND MARKED WITH THE LETTER "T" FOR EASY IDENTIFICATION. - PROVIDE AND INSTALL PULL BOXES AND PULL ROPES, INCLUDING ALL TRENCHING AND BACKFILLING WITHIN WAL-MART AND RETAIL PARCEL PROPERTIES AT LOCATIONS SHOWN ON PLANS. PULL BOXES SHALL BE IN ACCORDANCE WITH TELEPHONE COMPANY SPECIFICATIONS AND RATED FOR HEAVY WHEEL LOADS WITHIN PAVEMENT AREAS. - CONTRACTOR SHALL CONTACT TELEPHONE COMPANY PRIOR TO STORM PIPE INSTALLATION WITHIN U.S. HWY. 441 ROW DUE TO STORM PIPE CONFLICT.	- TELEPHONE COMPANY WILL PROVIDE AND INSTALL ALL TELEPHONE CABLES FROM THE POINT OF CONNECTION UP TO THE BUILDING AND WITHIN ROWS. - TELEPHONE COMPANY WILL RELOCATE AND REINSTALL EXISTING TELEPHONE CABLES WITHIN U.S. HWY. 441 ROW FOR PROPOSED STORM PIPE INSTALLATION. CONTRACTOR SHALL CONTACT TELEPHONE COMPANY PRIOR TO CONSTRUCTION WITHIN U.S. HWY. 441 ROW.
ELECTRIC CITY OF ALACHUA P.O. BOX 9 ALACHUA, FLORIDA 32616 (386) 418-6140 ATTN: MIKE NEW	- PROVIDE AND INSTALL ALL MATERIALS FOR THE PROPOSED ELECTRICAL SYSTEM INCLUDING BUT NOT LIMITED TO: PRIMARY AND SECONDARY CABLES, CONDUITS, STREET LIGHTS, CABINETS, PULL BOXES AND CONCRETE PADS AS SPECIFIED BY THE APPROVED ELECTRICAL DESIGN PLANS. - ALL ELECTRICAL SYSTEM, INFRASTRUCTURE AND CONNECTIONS SHALL BE IN ACCORDANCE WITH ELECTRICAL COMPANY SPECIFICATIONS. CABLES AND SUPPORT STRUCTURES SHALL NOT BE BACKFILLED UNTIL THEY HAVE BEEN INSPECTED AND APPROVED BY THE ELECTRIC COMPANY. - CONSTRUCT TRANSFORMER PAD PER ELECTRIC COMPANY SPECIFICATIONS.	- ELECTRIC COMPANY WILL PURCHASE TRANSFORMER(S) FOR THE CONTRACTOR. INVOICE FOR THE TRANSFORMER(S) SHALL BE PAID IN ADVANCE (BY CONTRACTOR) OF ORDERING AND SHOULD ALLOW 6-8 WEEKS LEAD TIME FOR DELIVERY. - ELECTRICAL FEEDER EXTENSION UNDER U.S. HWY. 441 FOR SERVICE TO DEVELOPMENT SHALL BE COMPLETED BY ELECTRIC COMPANY PRIOR TO START OF CONSTRUCTION.
SANITARY SEWER CITY OF ALACHUA P.O. BOX 9 ALACHUA, FLORIDA 32616 (386) 418-6140 ATTN: MIKE NEW	- PROVIDE AND INSTALL SANITARY SEWER LINES AND ASSOCIATED APPURTENANCES PER THE PLANS AND CITY OF ALACHUA SPECIFICATIONS. - ALL PUBLIC AND PRIVATE SANITARY SEWER LINES SHALL BE PVC AND RATED SDR 35. - COORDINATE REQUIRED INSPECTION SERVICES WITH ENGINEER OF RECORD AND CITY OF ALACHUA WASTE WATER SYSTEM INSPECTOR.	
WATER CITY OF ALACHUA P.O. BOX 9 ALACHUA, FLORIDA 32616 (386) 418-6140 ATTN: MIKE NEW	- PROVIDE AND INSTALL ALL WATER MAINS AND ASSOCIATED APPURTENANCES PER THE PLANS AND CITY OF ALACHUA SPECIFICATIONS. ALL PUBLIC AND PRIVATE WATER MAINS SHALL BE P.V.C. C-90 & C-95. - ALL PORTIONS OF THE FIRE PROTECTION WATER SYSTEM SHALL BE INSTALLED BY A LICENSED FIRE SPRINKLER CONTRACTOR. - ALL PORTIONS OF OTHER NON FIRE PROTECTION RELATED LINES MAY BE INSTALLED BY THE PLUMBING CONTRACTOR. - COORDINATE REQUIRED INSPECTION SERVICES WITH ENGINEER OF RECORD AND CITY OF ALACHUA WATER SYSTEM INSPECTOR.	- CITY TO PROVIDE AND INSTALL WATER METER
STORM SEWER SUWANNEE RIVER WATER MANAGEMENT DISTRICT 9225 C.R. 49 LIVE OAK, FLORIDA 32060 386-362-1001 ATTN: CLAY COARSEY, RESOURCE MANAGEMENT STAFF	- PROVIDE AND INSTALL ALL STORM SEWER LINES AND ASSOCIATED APPURTENANCES PER THE PLANS AND SPECIFICATIONS. - REFER TO GRADING PLAN FOR INFORMATION ON ALLOWABLE STORM SEWER MATERIALS	

THIS MATRIX HAS BEEN PROVIDED FOR INFORMATIONAL PURPOSES. THE CONTRACTOR SHALL PROVIDE ANY AND ALL APPURTENANCES, TRENCHING AND BACKFILL, AND OTHER INCIDENTALS TO MEET OR EXCEED THE SPECIFICATIONS OF THE ITEMS LISTED.

- NOTES: THE SITING WORK FOR THE WAL-MART PORTION OF THIS PROJECT SHALL MEET OR EXCEED THE "WAL-MART STANDARD SITING WORK SPECIFICATIONS."
- ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.

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Designed by:	Drawn by:	Checked by:	Approved by:	Scale:	Date:	Job No.:	File:	No.	Date	Revision	By
J.K.B.	C.D.P.	J.A.B.	H.L.W.	NONE	1/23/06	W13392.1	W13392.1 - C-1 COVER DWG	1	6/18/10		

COVER SHEET

STORE NO. 3873-00, ALACHUA (SEC L75 HWY 441), FLORIDA

Sheet No. **C-1**

500 West Fulton Street
Sanford, Florida 32771
P. O. Box 2808
Sanford, Florida 32772-2808
Phone 407 322-6841
Fax 407 330-8639

Engineers
Surveyors
Architects
Planners
Landscape Architects
Environmental Scientists
Construction Management
Traffic / Transportation

Eng. C.O.A. No. 3215
Survey L.B. No. 7143
Arch. Lic. No. AA2600926
Landscape Lic. No. LC0000298
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ALTA / ACSM LAND TITLE SURVEY

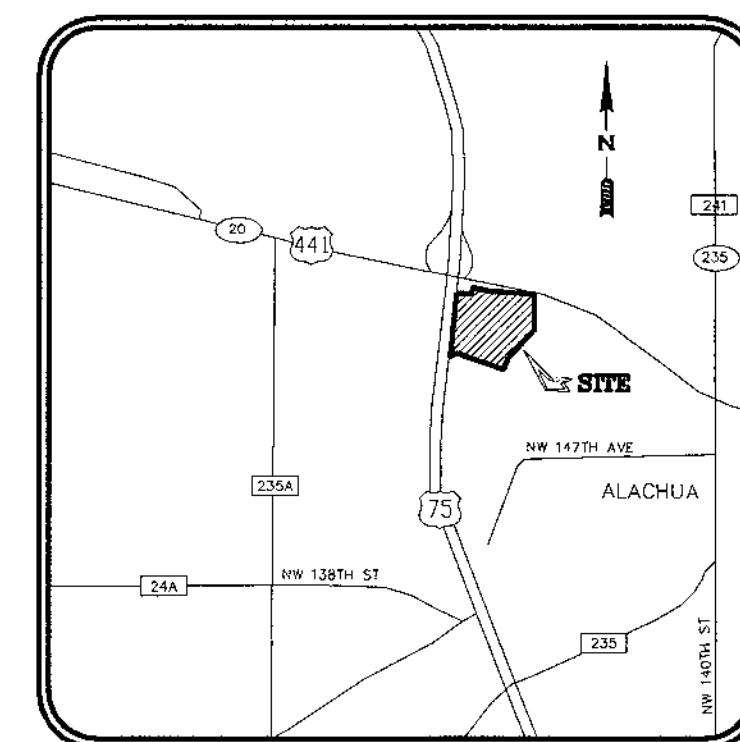
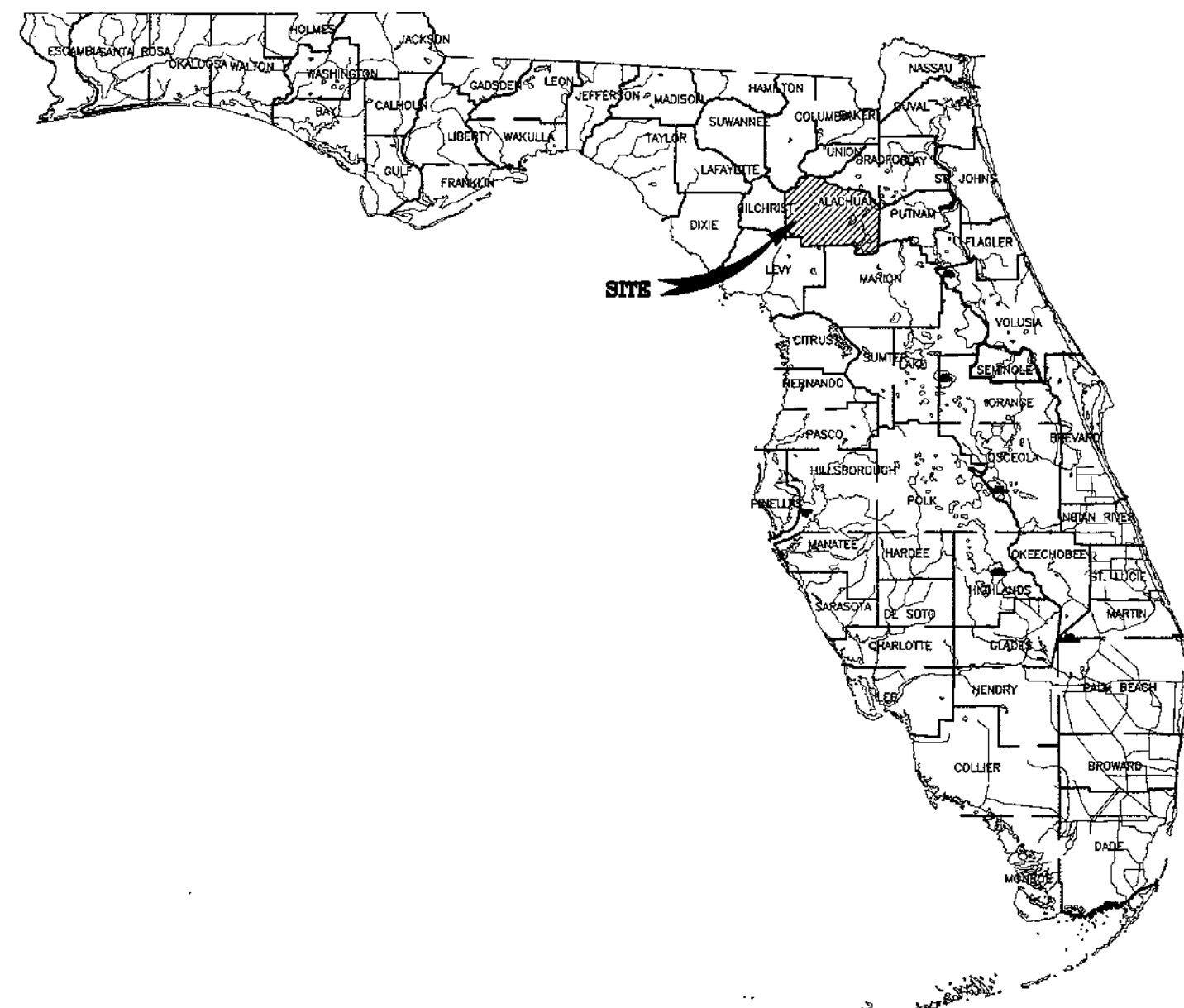
FOR THE



STORE NO. 3873-00

CITY OF ALACHUA, ALACHUA COUNTY, FLORIDA

IN SECTIONS 9, 10, 15 & 16 -TOWNSHIP 8 SOUTH-RANGE 18 EAST ALACHUA COUNTY, FLORIDA



VICINITY MAP NOT TO SCALE

Legal Description: (OVERALL PARCEL)

A TRACT OF LAND SITUATED IN FRACTIONAL SECTIONS 9, 10, 15, AND 16, TOWNSHIP 8 SOUTH, RANGE 18 EAST, AND THE WILLIAM GARVIN GRANT, CITY OF ALACHUA, ALACHUA COUNTY, FLORIDA, SAID TRACT OF LAND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS...

Legal Description: (WAL-MART PARCEL)

A TRACT OF LAND SITUATED IN FRACTIONAL SECTIONS 9, 10, 15, AND 16, TOWNSHIP 8 SOUTH, RANGE 18 EAST, AND THE WILLIAM GARVIN GRANT, CITY OF ALACHUA, ALACHUA COUNTY, FLORIDA, SAID TRACT OF LAND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS...

Legal Description: (ROAD PARCEL 1)

A TRACT OF LAND SITUATED IN FRACTIONAL SECTIONS 9, 10, 15, AND 16, TOWNSHIP 8 SOUTH, RANGE 18 EAST, AND THE WILLIAM GARVIN GRANT, CITY OF ALACHUA, ALACHUA COUNTY, FLORIDA, SAID TRACT OF LAND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS...

Legal Description: (ROAD PARCEL 2)

A TRACT OF LAND SITUATED IN FRACTIONAL SECTIONS 9, 10, 15, AND 16, TOWNSHIP 8 SOUTH, RANGE 18 EAST, AND THE WILLIAM GARVIN GRANT, CITY OF ALACHUA, ALACHUA COUNTY, FLORIDA, SAID TRACT OF LAND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS...

SCHEDULE B-SECTION 2 PER FIRST AMERICAN TITLE INSURANCE COMPANY COMMITMENT NO. FA-C-8293, EFFECTIVE DATE JULY 5, 2006, AT 8:00 A.M.

- RIGHT OF ACCESS TO PARCEL B OF DEED AS CONTAINED IN WARRANTY DEED RECORDED IN BOOK 2119, PAGE 705; RE-RECORDED IN BOOK 2122, PAGE 2202. (NOT PLOTTABLE)
EASEMENT GRANTED TO THE CITY OF ALACHUA, FLORIDA BY INSTRUMENT RECORDED IN O.R. BOOK 3138, PAGE 99. (AS SHOWN ON SURVEY, DOES NOT AFFECT WAL-MART PARCEL)

REFERENCE MATERIAL

- STATE OF FLORIDA STATE ROAD DEPARTMENT RIGHT OF WAY MAP, SECTION NO. 26200-2601, ROAD NO. 25, DATED 3/30/80, AS RECORDED IN THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA.
STATE OF FLORIDA STATE ROAD DEPARTMENT RIGHT OF WAY MAP, SECTION NO. 2620-206, ROAD NO. (2) 20-25, 3/11/46, AS RECORDED IN THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA.
STATE OF FLORIDA STATE ROAD DEPARTMENT RIGHT OF WAY MAP, SECTION NO. 26200-2401, STATE ROAD NO. 93 (I-75), 2/16/82, AS RECORDED IN THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA.

Abbreviation Legend:

Table with two columns listing abbreviations and their corresponding symbols or descriptions, such as C/L - CENTERLINE, POB - POINT OF BEGINNING, etc.

Symbol Legend:

Table with two columns listing symbols and their corresponding descriptions, such as CHAIN LINK FENCE, FIRE HYDRANT, ROOF DRAIN, etc.

Line Legend:

Table with two columns listing line styles and their corresponding descriptions, such as 65 - 5 FOOT CONTOURS, 64 - 1 FOOT CONTOURS, etc.

C-3

Survey Notes:

- SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
ELEVATIONS SHOWN HEREON ARE BASED ON THE MVD 88 AND SAID ELEVATIONS ARE MATCHED TO BENCHMARKS SUPPLIED BY ALACHUA COUNTY SURVEY DEPARTMENT WHICH ARE AS FOLLOWS:
DESIGNATION 175 73 B32, A STANDARD FLORIDA, DEPARTMENT OF TRANSPORTATION BRASS DISK, STAMPED 175 73 B32 RM 2, SET IN THE TOP OF A ROUND CONCRETE MONUMENT THAT IS 2" BELOW THE GROUND, IT IS 11.9 FEET EAST OF A METAL WITNESS POST, 12.4 FEET EAST OF THE CENTERPOST FOR A TRIPLE BRACE POST, 12.8 FEET EAST OF INTERSTATE ROUTE 75 RIGHT-OF-WAY FENCE LINE AND 94.0 FEET WEST OF CENTER OF INTERSTATE ROUTE 75 SOUTHBOUND LANE. ELEVATION=157.84
DESIGNATION 175 73 B32 RM 1, A STANDARD FLORIDA, DEPARTMENT OF TRANSPORTATION BRASS DISK, STAMPED 175 73 B32 RM 1, SET IN THE TOP OF A ROUND CONCRETE MONUMENT THAT IS 3" BELOW THE GROUND, IT IS 4.0 FEET EAST OF A METAL WITNESS POST, 4.7 FEET EAST OF THE INTERSTATE ROUTE 75 FENCELINE, 33.5 FEET SOUTH OF THE SOUTHERN MOST POST OF TRIPLE BRACE AND 102.0 FEET WEST OF THE CENTERLINE OF THE SOUTHBOUND LANE OF INTERSTATE ROUTE 75. ELEVATION=158.17
ON SITE BENCHMARKS ARE DISPLAYED ON SHEETS 3 AND 4 OR 7 OF THIS SURVEY.
BEARINGS SHOWN HEREON ARE RELATIVE TO ASSUMED DATA AS BEING N 041°14'3" E ALONG THE EASTERLY RIGHT-OF-WAY LINE OF INTERSTATE HIGHWAY NO. 75, ALACHUA COUNTY, FLORIDA.
THE PARENT TRACT LEGAL DESCRIPTION HEREON IS IN ACCORD WITH SCHEDULE "A" OF FIRST AMERICAN TITLE INSURANCE COMPANY, COMMITMENT NO. FA-C8293, WHICH WAS DATED JULY 5, 2006 AT 8:00 A.M. AND WAS PROVIDED BY THE CLIENT.
NO UNDERGROUND UTILITIES, FOUNDATIONS OR IMPROVEMENTS, IF ANY, HAVE BEEN LOCATED EXCEPT AS SHOWN.
ACCORDING TO THE NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NO. 120684 0025 A, EFFECTIVE FEBRUARY 2, 1996, THIS PROPERTY LIES IN ZONE 1 WHICH IS A SPECIAL FLOOD HAZARD AREA. THIS DETERMINATION WAS BASED ON A GRAPHIC INTERPOLATION OF SAID MAP AND NOT ON ACTUAL FIELD MEASUREMENTS.
UNLESS OTHERWISE NOTED, ALL RECORD INFORMATION SHOWN HEREON IS BASED ON INFORMATION CONTAINED IN THE COMMITMENT FOR TITLE INSURANCE BY FIRST AMERICAN TITLE INSURANCE COMPANY COMMITMENT NO. FA-C-8293, EFFECTIVE DATE FEBRUARY 23, 2006, AT 8:00 A.M. AND WAS PROVIDED BY THE CLIENT.
ALL BEARINGS AND DISTANCES SHOWN HEREON ARE PER THE DESCRIPTION AND ARE CORRECT AND IN AGREEMENT WITH THE FOUND AND SET MONUMENTS AS MEASURED IN THE FIELD UNLESS OTHERWISE NOTED.
THIS BOUNDARY SURVEY MEETS OR EXCEEDS THE HORIZONTAL CONTROL ACCURACY OF 1/15,000 FEET FOR A LAND TITLE SURVEY.
ALL UNDERGROUND UTILITY LOCATION WAS PROVIDED BY THE UTILITY COMPANIES AND/OR THEIR REPRESENTATIVES AND FIELD LOCATED BY THIS SURVEYOR.
ALL ASPHALT PAVEMENT, CONCRETE CURBING & CONCRETE WALKS ARE IN GOOD CONDITION UNLESS OTHERWISE NOTED.
BUILDING SETBACK REQUIREMENTS PER THE LAND DEVELOPMENT CODE OF THE CITY OF ALACHUA, ALACHUA COUNTY, FLORIDA ARE AS FOLLOWS:
FRONT, REAR, AND SIDES - 10'

INDEX OF SHEETS

- ALTA/ACSM LAND TITLE SURVEY (COVER SHEET)
ALTA/ACSM LAND TITLE SURVEY (BOUNDARY SURVEY)
ALTA/ACSM LAND TITLE SURVEY (TOPOGRAPHIC SURVEY)
ALTA/ACSM LAND TITLE SURVEY (TOPOGRAPHIC SURVEY)
ALTA/ACSM LAND TITLE SURVEY (TREE LOCATION)
ALTA/ACSM LAND TITLE SURVEY (TREE LOCATION)
ALTA/ACSM LAND TITLE SURVEY (UTILITY SURVEY)

Surveyor's Certification:

TO: WAL-MART STORES EAST, LP, A DELAWARE LIMITED PARTNERSHIP, FIRST STREET GROUP, L.C., A FLORIDA LIMITED LIABILITY COMPANY, EDWARDS COHEN, AND FIRST AMERICAN TITLE INSURANCE COMPANY.

IN ACCORDANCE WITH THE "MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS," JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS IN 2005, AND INCLUDES ITEMS 1-5, 7A, 8, 10, 11B, 13, AND 15 OF TABLE A THEREOF, PURSUANT TO THE ACCURACY STANDARDS AS ADOPTED BY ALTA AND NSPS AND IN EFFECT ON THE DATE OF THIS CERTIFICATION, UNDERSIGNED FURTHER CERTIFIES THAT IN MY PROFESSIONAL OPINION, AS A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA, THE RELATIVE POSITIONAL ACCURACY OF THIS SURVEY DOES NOT EXCEED THAT WHICH IS SPECIFIED THEREIN.

I HEREBY CERTIFY THAT THE ATTACHED "BOUNDARY & TOPOGRAPHICAL SURVEY" OF THE HEREON-DESCRIBED PROPERTY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF AS SURVEYED IN THE FIELD ON APRIL 22, 2008. I FURTHER CERTIFY THAT THIS "BOUNDARY & TOPOGRAPHICAL SURVEY" MEETS THE MINIMUM TECHNICAL STANDARDS SET FORTH IN CHAPTER 61G17-6 OF THE FLORIDA ADMINISTRATIVE CODE.

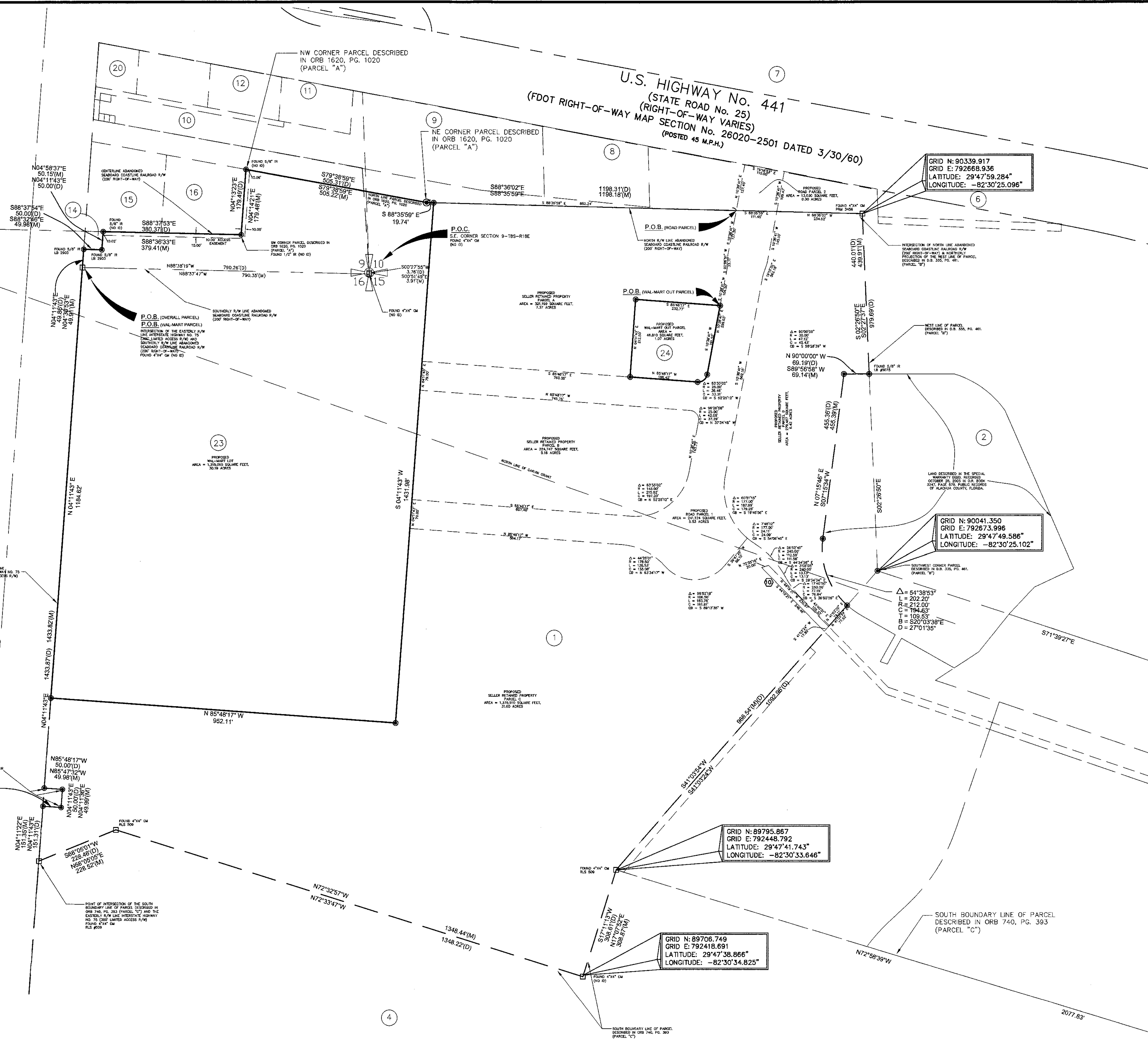
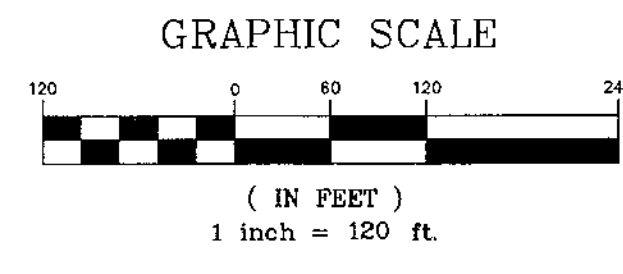
For the Firm By: Thomas J. Galloway, P.S.M. Professional Surveyor and Mapper Florida Registration No. 6549

cph logo and contact information: 500 West Fulton Street Sanford, Florida 32771, P. O. Box 2808 Sanford, Florida 32772-2808, Phone 407 322-6841, Fax 407 330-0639. Certificate of Authorization No. 7143 © 2006. Engineers, Surveyors, Architects, Planners, Landscape Architects, Environmental Scientists, Construction Management, Design/Build.

Project information table with columns for W.T., J.R., R.L.R., R.A.N., N/A, 3/17/06, W13392, W13392DWG, and Date. Includes 'ADDITIONAL TOPO ALONG US HIGHWAY 441' and 'Revision' column. Sheet No. 1 of 7.

TAX IDENTIFICATION NUMBER	OWNER	ADDRESS	COUNTY
1	03899-000-000	FIRST STREET GROUP, L.C.	ALACHUA, FL 32816-1990
2	03868-000-000	CHRISTOPHER ALLEN KOROSIC	ALACHUA, FL 32815-5351
3	03883-002-000	THOMAS H. & NANCY B. TONNELIER	GAINESVILLE, FL 32606
4	03883-000-000	ALACHUA HOLDINGS, LTD	GAINESVILLE, FL 32619
5	03868-001-002	CHRISTOPHER ALLEN KOROSIC	ALACHUA, FL 32815-5351
6	03068-001-000	THOMAS STALBAUM	GAINESVILLE, FL 32608-3879
7	03266-000-000	FIRST STREET GROUP, L.C.	ALACHUA, FL 32816-1990
8	03066-000-001	ASHOK S. & SUELA A. PATEL	ALACHUA, FL 32815
9	03066-000-002	TEMPLE HILL, INC.	ORLANDO, FL 32809-4600
10	03066-000-002	TEMPLE HILL, INC.	ORLANDO, FL 32809-4600
11	03066-007-000	AMERICAN PETROLEUM INVESTMENTS	DODD, FL 32926
12	03029-000-000	MICHAELIS CORPORATION	ALACHUA, FL 32815
13	03066-000-003	WESTERN TEEPE, INC.	ALACHUA, FL 32815
14	03889-001-000	JAMES E. JR. & RENEE HARKINS	MARIANNA, FL 32447-6307
15	03064-000-000	WILLIAM P. ANDERSON	ALACHUA, FL 32815-5352
16	03064-000-000	WILLIAM P. ANDERSON	GAINESVILLE, FL 32606-1300
17	03064-000-000	FIRST STREET GROUP, L.C.	ALACHUA, FL 32816-1990
18	03889-006-000	WINDSWEEP HILLS, LLC	GAINESVILLE, FL 32609
19	03066-000-001	SANTA FE STATION DEVELOPMENT	GAINESVILLE, FL 32663
20	03066-000-000	MICHAELIS CORPORATION	ALACHUA, FL 32815
21	03066-000-000	WESTERN TEEPE, INC.	ALACHUA, FL 32815
22	03066-007-000	AMERICAN PETROLEUM INVESTMENTS	DODD, FL 32926
23	03889-001-000	WAL-MART STORES EAST LP	BENTONVILLE, AR 72718
24	03889-004-000	WAL-MART STORES EAST LP	BENTONVILLE, AR 72718

INTERSTATE HIGHWAY NO. 75
 (300' LIMITED ACCESS R/W)
 (PER FDOT RIGHT-OF-WAY MAP SECTION No. 26260-2401
 DATED 2/16/62)
 (POSTED 65 M.P.H.)



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W.T.	J.R.	R.L.R.	R.A.N.	1" = 120'	Date of Field Survey	Job No.	File
W13392	W13392	W13392	W13392	3/7/06	4/22/08	W13392	W13392.DWG

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ALTA/ACSM LAND TITLE SURVEY
 BOUNDARY SURVEY

C-3A NOTE: THIS SURVEY IS NOT VALID WITHOUT SHEETS J THROUGH Z, OF Z.



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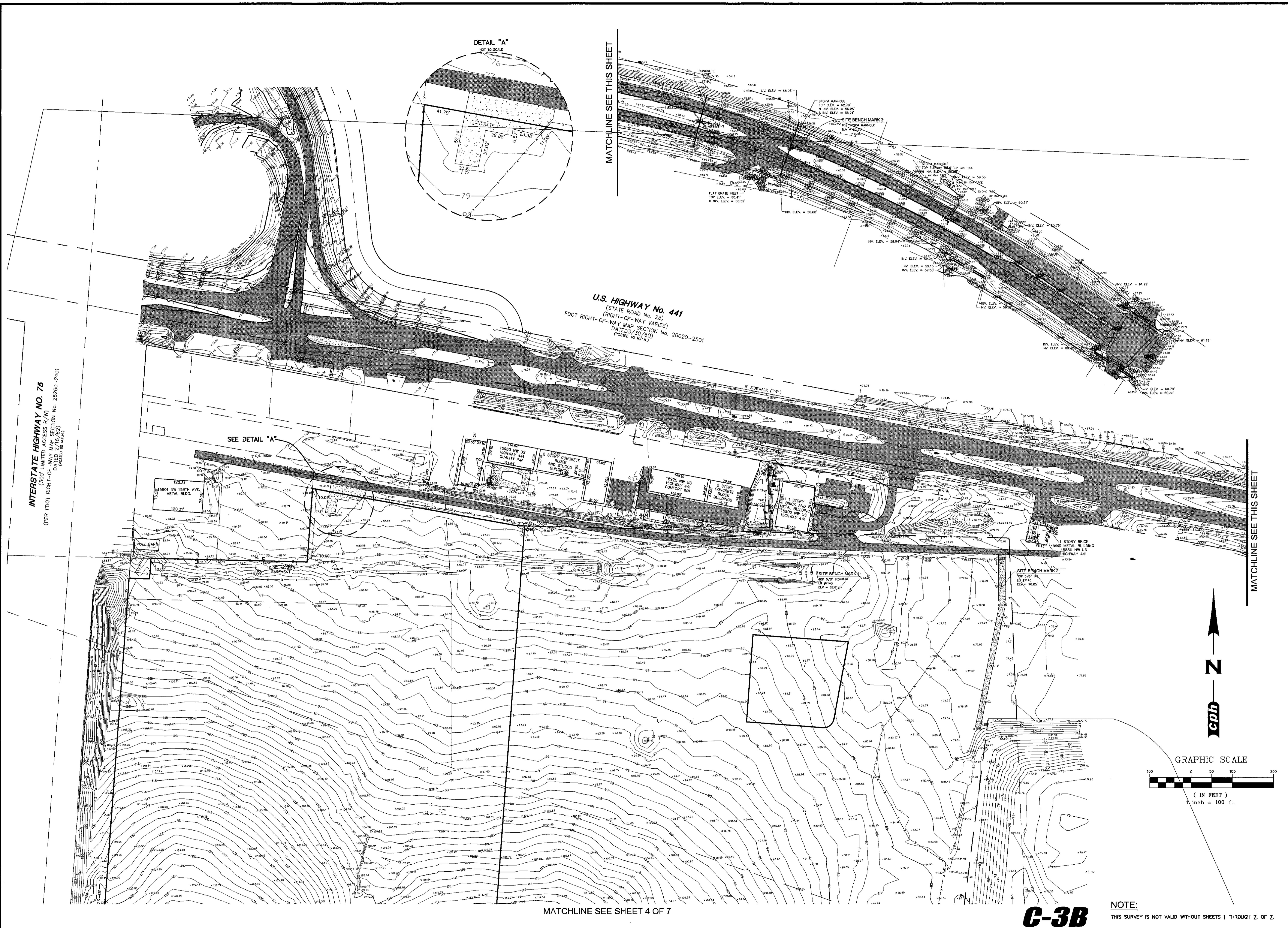
Revision	Date	By
1	4/22/08	J.R.
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W.T. []
 J.R. []
 R.L.R. []
 R.A.N. []
 Scale: 1" = 100'
 Date of Field Survey: 3/17/06
 Job No.: W13392
 File: W13392.dwg

W.T.	J.R.	R.L.R.	R.A.N.	Scale:	Date of Field Survey:	Job No.:	File:
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ALTA/ACSM LAND TITLE SURVEY
 TOPOGRAPHIC SURVEY
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 CITY OF ALACHUA, ALACHUA COUNTY, FLORIDA

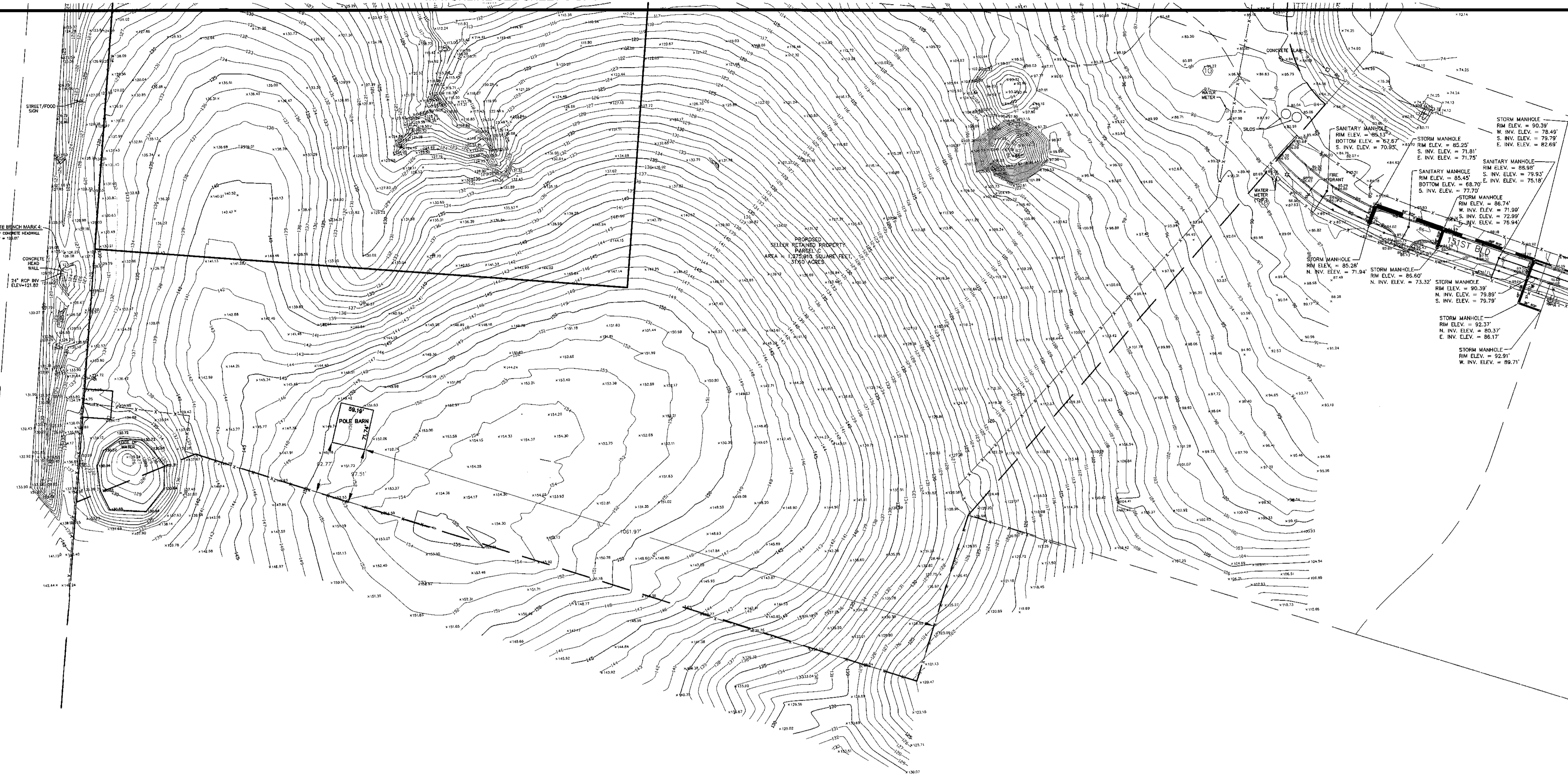
Sheet No.
3
 of 7



C-3B

MATCHLINE SEE SHEET 3 OF 7

INTERSTATE HIGHWAY NO. 75
 (300' LIMITED ACCESS R/W)
 (PER FOOT RIGHT-OF-WAY MASS DATED 2/19/75) SECTION No. 26260-2401
 (POSTED 1/6 M.F.A.)



CONCRETE LAB
 WATER METER

POLE BARN

STORM MANHOLE
 RIM ELEV. = 90.39'
 W. INV. ELEV. = 78.45'
 S. INV. ELEV. = 75.79'
 E. INV. ELEV. = 82.68'

STORM MANHOLE
 RIM ELEV. = 85.25'
 BOTTOM ELEV. = 82.67'
 S. INV. ELEV. = 70.95'
 E. INV. ELEV. = 71.75'

STORM MANHOLE
 RIM ELEV. = 88.90'
 S. INV. ELEV. = 79.83'
 E. INV. ELEV. = 75.18'

STORM MANHOLE
 RIM ELEV. = 85.45'
 BOTTOM ELEV. = 82.70'
 S. INV. ELEV. = 77.70'

STORM MANHOLE
 RIM ELEV. = 86.74'
 W. INV. ELEV. = 71.99'
 S. INV. ELEV. = 72.99'
 E. INV. ELEV. = 75.94'

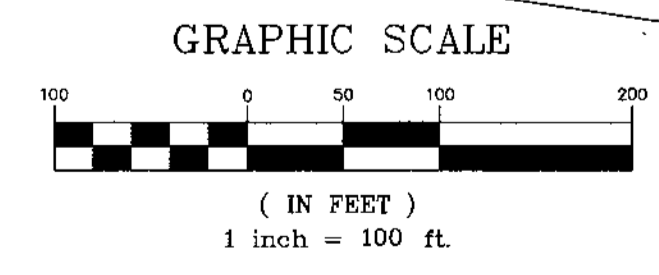
STORM MANHOLE
 RIM ELEV. = 85.28'
 N. INV. ELEV. = 71.94'

STORM MANHOLE
 RIM ELEV. = 90.39'
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 S. INV. ELEV. = 79.79'

STORM MANHOLE
 RIM ELEV. = 73.32'
 N. INV. ELEV. = 86.60'

STORM MANHOLE
 RIM ELEV. = 92.37'
 N. INV. ELEV. = 80.32'
 E. INV. ELEV. = 86.17'

STORM MANHOLE
 RIM ELEV. = 92.91'
 W. INV. ELEV. = 89.71'



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W.T.	J.R.	R.L.R.	R.A.N.	1" = 100'	Date of Field Survey:	Job No.:	File:
W.T.	J.R.	R.L.R.	R.A.N.	1" = 100'	3/7/06	W13392	W13392.DWG
W.T.	J.R.	R.L.R.	R.A.N.	1" = 100'	4/22/08		

ALTA/ACSM LAND TITLE SURVEY
 TOPOGRAPHIC SURVEY

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 CITY OF ALACHUA, ALACHUA COUNTY, FLORIDA

Sheet No.
4
 of 7

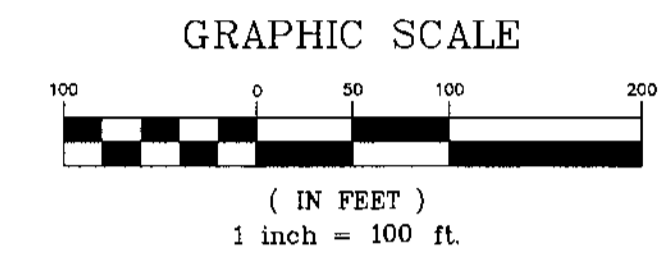
C-3C NOTE:
 THIS SURVEY IS NOT VALID WITHOUT SHEETS 1 THROUGH Z, OF Z.



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MATCHLINE SEE SHEET 6 OF 7

C-3D

NOTE:
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W.T.	J.R.	R.L.R.	R.A.N.	Scale:	Date of Field Survey:	Job No.:	File:	W.T.	J.R.	R.L.R.	R.A.N.	Scale:	Date of Field Survey:	Job No.:	File:
△	△	△	△	1" = 100'	3/7/06	W13392	W13392.DWG	△	△	△	△	1" = 100'	3/7/06	W13392	W13392.DWG
Crew Chief:	Drawn by:	Checked by:	Approved by:	Scale:	Date of Field Survey:	Job No.:	File:	No.	Date						
J.R.	J.R.	J.R.	J.R.	1" = 100'	3/7/06	W13392	W13392.DWG	422/08	4/22/08						
ALTA/ACSM LAND TITLE SURVEY										TREE LOCATION					
Walmart										STORE NO. 3873-00 CITY OF ALACHUA, ALACHUA COUNTY, FLORIDA					

Sheet No.
5
 of 7

J.R. By

422/08 Date

W13392 Job No.

W13392.DWG File

4/22/08 Date

W13392 Job No.

W13392.DWG File

422/08 Date

4/22/08 Date

422/08 Date

4/22/08 Date

ADDITIONAL TOPO ALONG US HIGHWAY 441
 Revision

MATCHLINE SEE SHEET 5 OF 7

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Revision	By	J.R.
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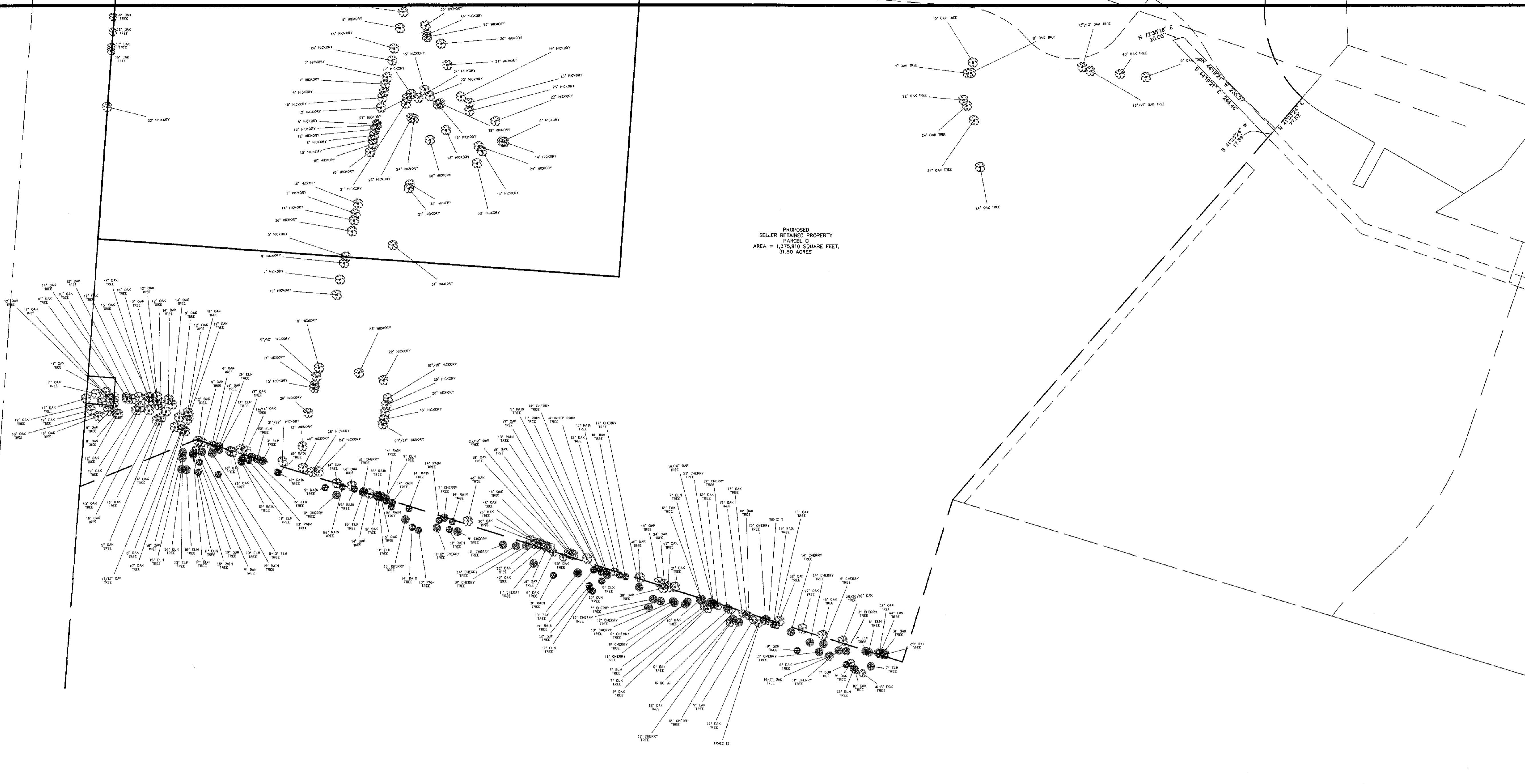
ALTA/ACSM LAND TITLE SURVEY
 TREE LOCATION

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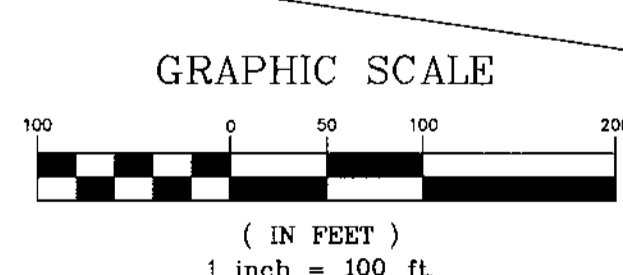
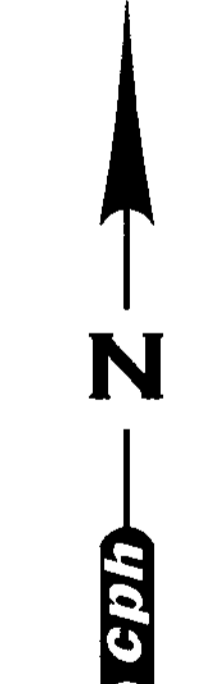
STORE NO. 3873-00
 CITY OF ALACHUA, ALACHUA COUNTY, FLORIDA

Sheet No.
6
 of 7

INTERSTATE HIGHWAY NO. 75
 (300' LIMITED ACCESS R/W)
 (PER FOOT RIGHT-OF-WAY MAP SECTION No. 262601-2401
 (PARTIAL 26/02)
 (PARTIAL 26/01))



PROPOSED
 SELLER RETAINED PROPERTY
 PARCEL C
 AREA = 1,151,910 SQUARE FEET,
 31.60 ACRES



C-3E NOTE:
 THIS SURVEY IS NOT VALID WITHOUT SHEETS 1 THROUGH Z, OF Z.



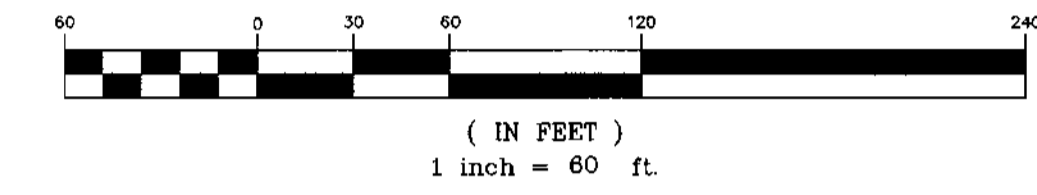
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GRAPHIC SCALE

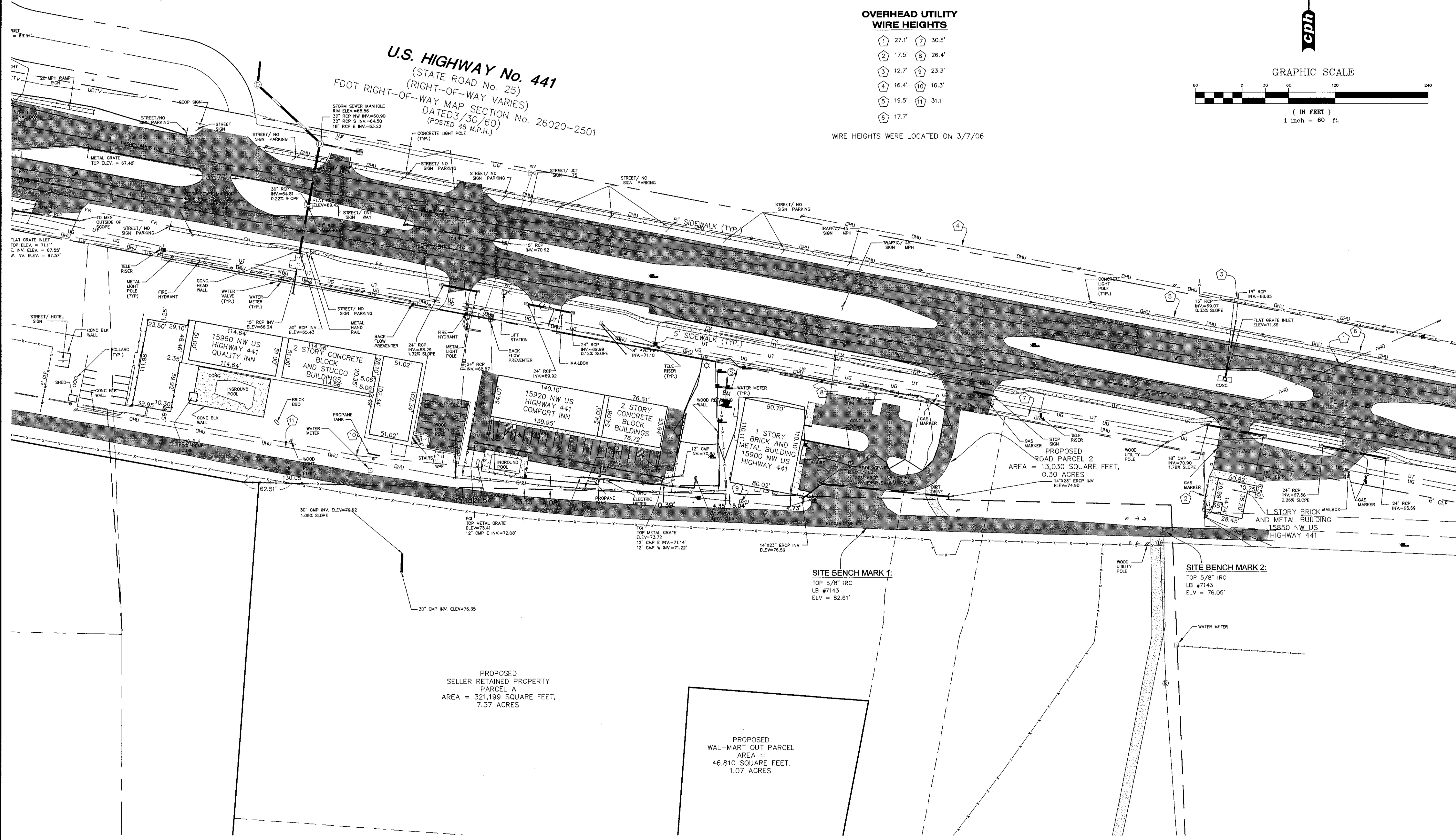


**OVERHEAD UTILITY
 WIRE HEIGHTS**

- ① 27.1'
- ② 17.5'
- ③ 12.7'
- ④ 16.4'
- ⑤ 19.5'
- ⑥ 17.7'
- ⑦ 30.5'
- ⑧ 26.4'
- ⑨ 23.3'
- ⑩ 16.3'
- ⑪ 31.1'

WIRE HEIGHTS WERE LOCATED ON 3/7/06

U.S. HIGHWAY No. 441
 (STATE ROAD No. 25)
 (RIGHT-OF-WAY VARIES)
 FDOT RIGHT-OF-WAY MAP SECTION No. 26020-2501
 DATED 3/30/60
 (POSTED 45 M.P.H.)



PROPOSED
 SELLER RETAINED PROPERTY
 PARCEL A
 AREA = 321,199 SQUARE FEET,
 7.37 ACRES

PROPOSED
 WAL-MART OUT PARCEL
 AREA =
 46,810 SQUARE FEET,
 1.07 ACRES

SITE BENCH MARK 1:
 TOP 5/8" IRC
 LB #7143
 ELV = 82.61'

SITE BENCH MARK 2:
 TOP 5/8" IRC
 LB #7143
 ELV = 76.05'

PROPOSED
 ROAD PARCEL 2
 AREA = 13,030 SQUARE FEET,
 0.30 ACRES

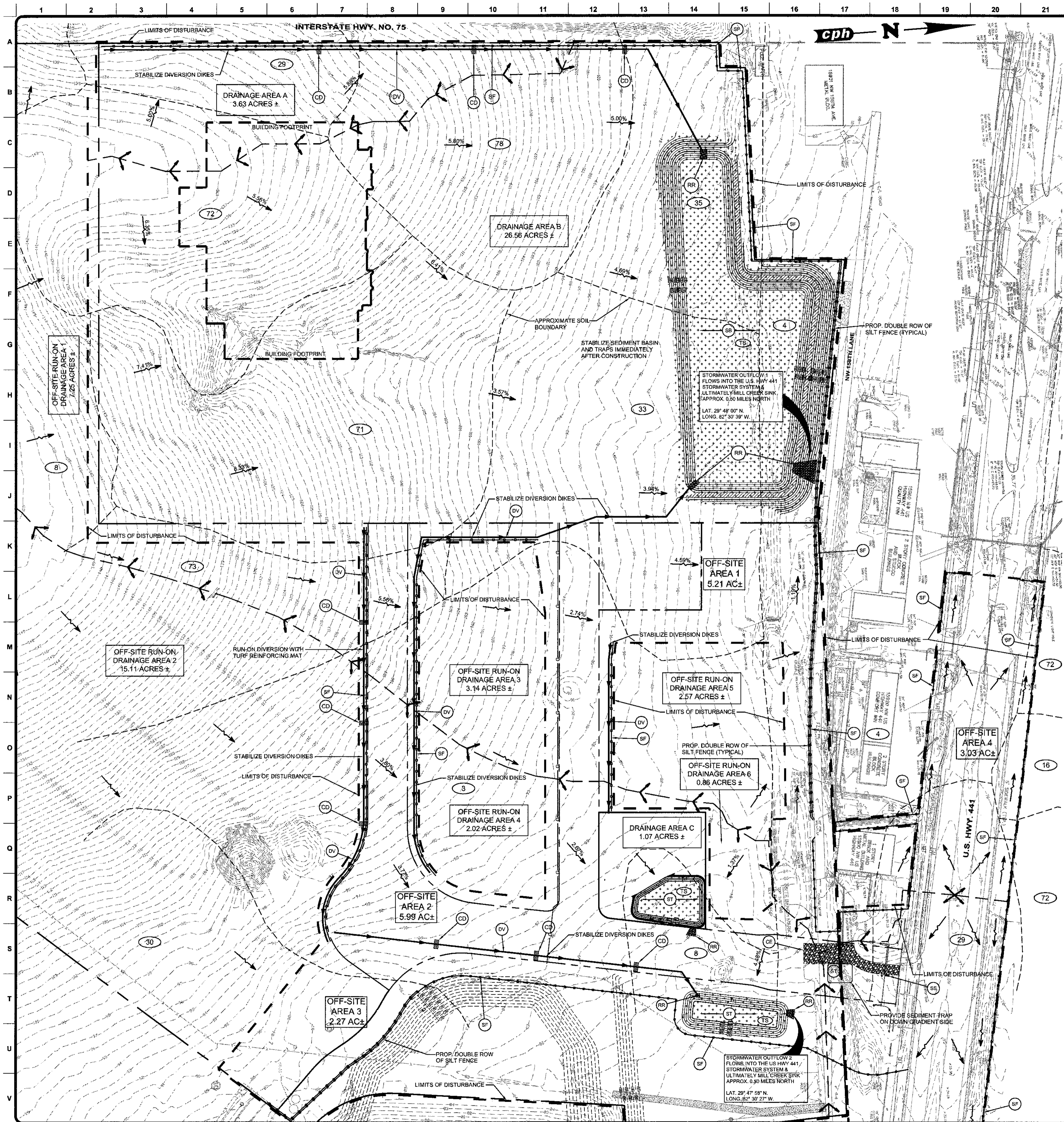
1 STORY BRICK MAILBOX
 AND METAL BUILDING
 15850 NW US
 HIGHWAY 441

W.T.	J.R.	R.L.R.	R.A.N.	Scale:	Date of Field Survey:	Job No.:	File:	W.T.	J.R.	R.L.R.	R.A.N.	No.	Date
▲	▲	▲	▲	1" = 60'	3/7/06	W13392	W13392.DWG	▲	▲	▲	▲	4/22/08	

ALTA/CASM LAND TITLE SURVEY
 UTILITY SURVEY

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 CITY OF ALACHUA, ALACHUA COUNTY, FLORIDA



SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE

NOTE: GENERAL CONTRACTOR TO COMPLETE TABLE WITH THEIR SPECIFIC PROJECT SCHEDULE

CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
TEMPORARY CONSTRUCTION EXITS																									
TEMPORARY CONTROL MEASURES																									
SEDIMENT CONTROL BASINS																									
STRIP & STOCKPILE TOPSOIL																									
ROUGH GRADE																									
STORM FACILITIES																									
SITE CONSTRUCTION																									
PERMANENT CONTROL STRUCTURES																									
FOUNDATION / BUILDING CONSTRUCTION																									
FINISH GRADING																									
LANDSCAPING/SEED/FINAL STABILIZATION																									

1) CONTRACTOR SHALL UPDATE THE TABLE BY DATING THE APPLICABLE ACTIVITIES AS PROJECT PROGRESSES.
 2) TIME SCHEDULE MUST COINCIDE WITH SEQUENCE OF CONSTRUCTION.

OFF-SITE MATERIAL AREA(S) INFORMATION

BORROW SITE NAME:	DISPOSAL SITE NAME:
BORROW SITE ADDRESS:	DISPOSAL SITE ADDRESS:
BORROW SITE PERMIT HOLDER:	DISPOSAL SITE PERMIT HOLDER:
BORROW SITE PERMIT NO.:	DISPOSAL SITE PERMIT NO.:
BORROW SITE PERMITTING AGENCY:	DISPOSAL SITE PERMITTING AGENCY:

1) CONTRACTOR SHALL FILL IN BORROW AND DISPOSAL INFORMATION ABOVE.
 2) BORROW AND DISPOSAL INFORMATION IS NEEDED FOR SOIL FILL AND SPOIL MATERIALS ONLY.
 3) CONTRACTOR SHALL STATE "NOT REQUIRED FOR THIS PROJECT" IF ONE OR BOTH ARE NOT REQUIRED FOR PROJECT.

OFF-SITE RUN-ON ACREAGE SUMMARY*

OFF-SITE DRAINAGE AREA	ACREAGE	AVERAGE SLOPE	MAXIMUM SLOPE	COVER TYPE**
AREA 1	22.36	5%	10.84%	VEGETATED
AREA 2	5.16	5%	5.61%	VEGETATED
AREA 3	0.88	2%	2.88%	VEGETATED

* IDENTIFY UP-GRADE RUN-ON AREAS FOR EACH PERIMETER AREA RECEIVING RUN-ON.
 ** STATE PREDOMINANT TYPE OF SURFACE COVER (I.E. VEGETATED, PAVED, ROCKED, ETC.)

ACREAGE SUMMARY (IN ACRES)

WAL-MART SITE AREA	32
ON-SITE DISTURBED AREA	32
OFF-SITE DISTURBED AREA	28
TOTAL DISTURBED AREA	60
IMPERVIOUS AREA AT COMPLETION	20
PERVIOUS AREA AT COMPLETION	36

BEST MANAGEMENT PRACTICES SEQUENCE

NOTE: UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAY DOWN, PORTA POTTY, WHEEL WASH, CONCRETE WASH-OUT, MASON'S AREA, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.

PHASE 1

1. INSTALL STABILIZED CONSTRUCTION EXITS AND SWPPP INFORMATION SIGN
2. INSTALL SILT FENCE ON THE SITE CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL SILT FENCE
3. PREPARE TEMPORARY PARKING AND STORAGE AREA

PHASE 2

4. BALT ALL ACTIVITIES AND CONTACT THE CEC TO PERFORM INSPECTION AND CERTIFICATION OF BMP. GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT THE STORM WATER PRE-CONSTRUCTION MEETING WITH THE CEC, WALMART CONSTRUCTION MANAGER, AGENCIES, AND GROUND DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.

PHASE 3

1. ALL EXCEPTIONS NOTED ON THE BMP CERTIFICATION FORM MUST BE ADDED TO THE FIRST DAILY REPORT AS A DEFICIENCY OR DEFICIENCIES AND RESOLVED WITHIN 24 HOURS. BMP'S CAN NOT BE CERTIFIED IF ANY EXCEPTION REQUIRES GREATER THAN 24 HOURS TO RESOLVE.

DAILY INSPECTIONS AND REPORTING USING THE SWPPP MANAGEMENT TOOL MUST START THE DAY OF OR IMMEDIATELY AFTER BMP CERTIFICATION.

EROSION NOTES

- TS TEMPORARY SEEDING AND MULCH
- 4 SOIL TYPE: ARRESONDO URBAN LAND COMPLEX (0 TO 5% SLOPES)
- 8 SOIL TYPE: MILLHOPPER SAND (0 TO 5% SLOPES)
- 29 SOIL TYPE: LOCH-LOOSA FINE SAND (2 TO 5% SLOPES)
- 33 SOIL TYPE: NORFOLK LOAMY FINE SAND (2 TO 5% SLOPES)
- 35 SOIL TYPE: GAINESVILLE SAND (0 TO 5% SLOPES)
- 71 SOIL TYPE: MILLHOPPER SAND (5 TO 8% SLOPES)
- 72 SOIL TYPE: LOCH-LOOSA FINE SAND (5 TO 8% SLOPES)
- 73 SOIL TYPE: KENDRICK SAND (5 TO 8% SLOPES)
- 78 SOIL TYPE: NORFOLK LOAMY FINE SAND (5 TO 8% SLOPES)

WAL-MART STORES, INC.
 DIRECTOR OF STORM WATER COMPLIANCE
 MARK GOLDSMITH, CPESC

gph
 500 West Fulton Street
 Sanford, Florida 32771
 P. O. Box 2808
 Sanford, Florida 32772-2808
 Phone 407 322-6841
 Fax 407 330-0639

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Eng. C.O.A. No. 3215
 Survey L.R. No. 7143
 Arch. Lic. No. AA2600026
 Landscp. Lic. No. LC0000298
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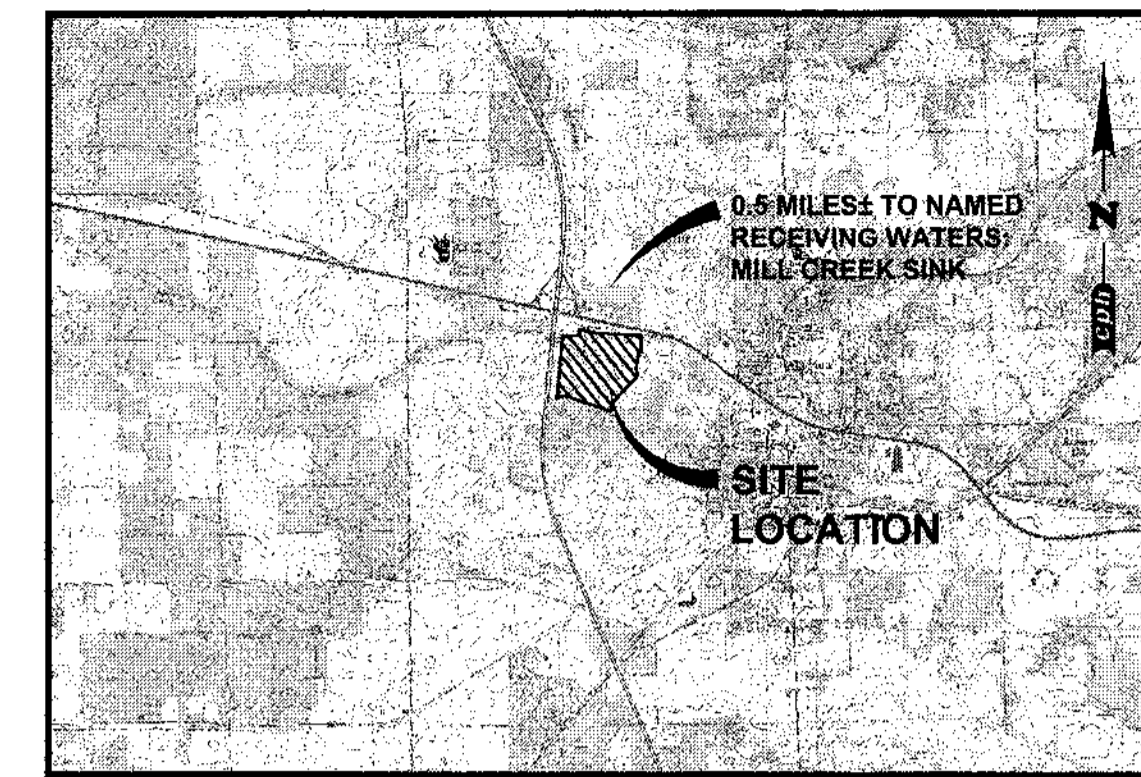
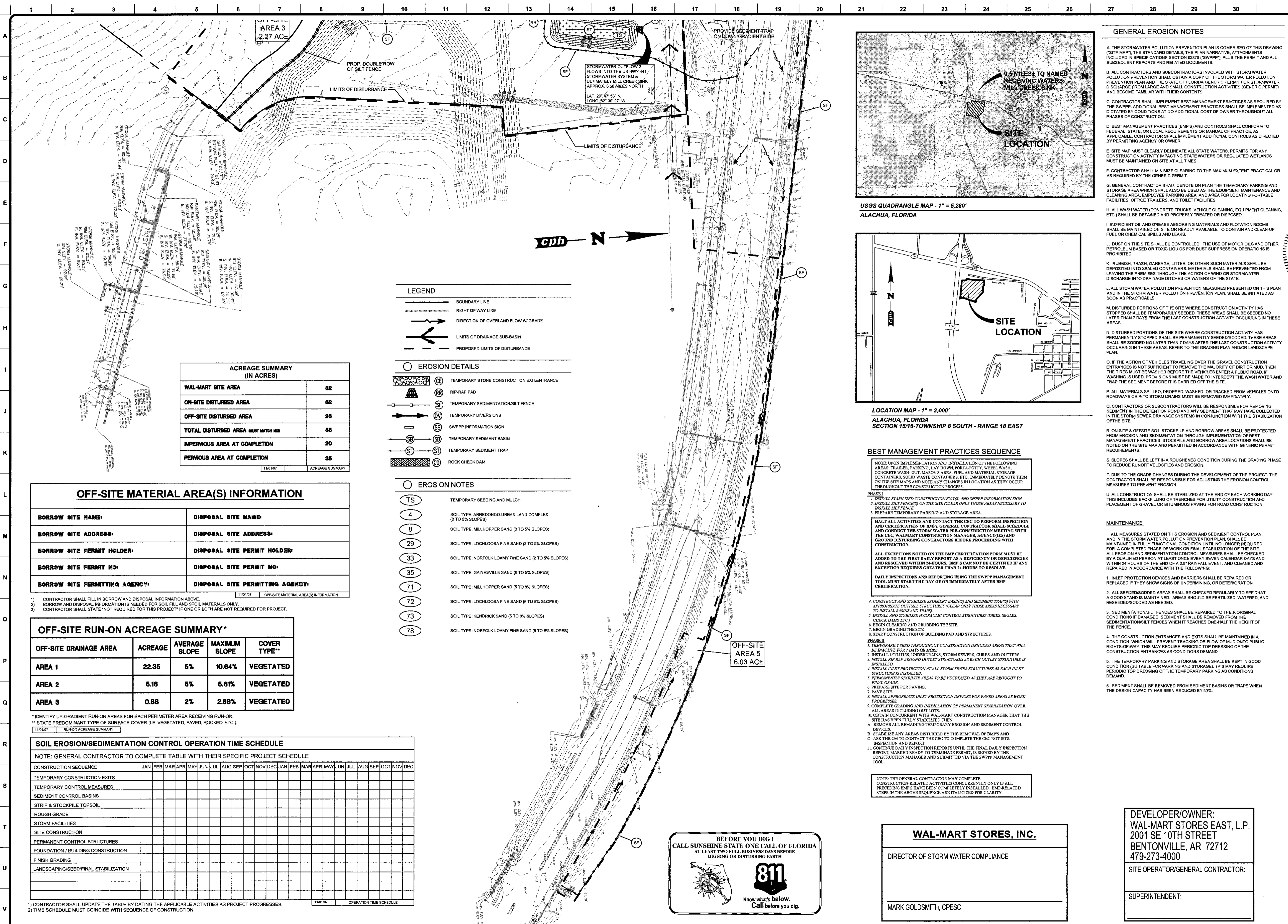
DESIGNED BY: C.D.P.
 DRAWN BY: C.D.P.
 CHECKED BY: J.D.L.
 APPROVED BY: H.L.W.
 SCALE: 1" = 100'
 DATE: 12/20/09
 JOB NO.: W13392.1
 FILE: EDP:HAET

DESIGNED BY: []
 DRAWN BY: []
 CHECKED BY: []
 APPROVED BY: []
 SCALE: []
 DATE: []
 JOB NO.: []
 FILE: []

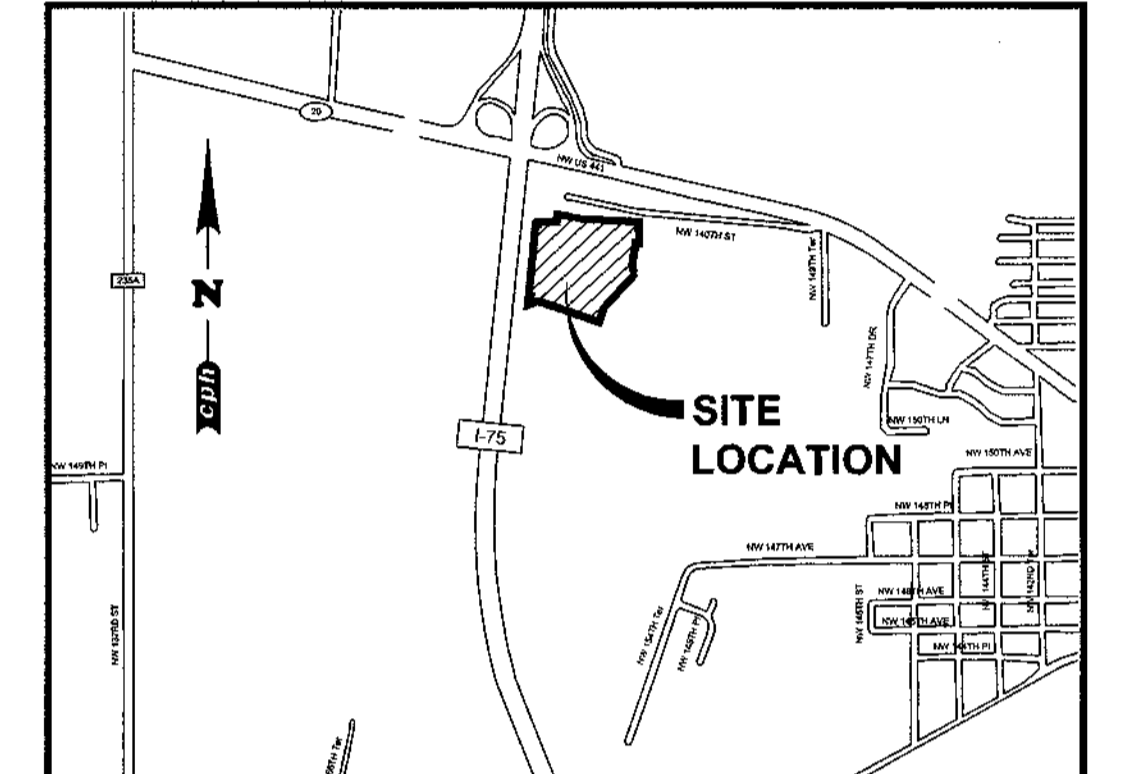
PHASE 1 EROSION AND SEDIMENTATION CONTROL SWPPP "SITE MAP"

Sheet No. **C-4**

STORE NO. 3873-00, ALACHUA (SEC 175 & HWY 441), FLORIDA



USGS QUADRANGLE MAP - 1" = 5,280'
ALACHUA, FLORIDA



LOCATION MAP - 1" = 2,000'
ALACHUA, FLORIDA
SECTION 15/16-TOWNSHIP 8 SOUTH - RANGE 18 EAST

GENERAL EROSION NOTES

- A. THE STORMWATER POLLUTION PREVENTION PLAN IS COMPRISED OF THIS DRAWING, THE STANDARD DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN SPECIFICATIONS SECTION 02370 (SWPPP), PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
- B. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORMWATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORMWATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES (GENERIC PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
- C. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- D. BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
- E. SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
- F. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERIC PERMIT.
- G. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMERGENCY PARKING, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
- H. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
- I. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- J. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- K. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- L. ALL STORMWATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN AND IN THE STORMWATER POLLUTION PREVENTION PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.
- M. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS STOPPED SHALL BE TEMPORARILY SEEDED. THESE AREAS SHALL BE SEEDING NO LATER THAN 7 DAYS FROM THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS.
- N. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY RESEED/DODED. THESE AREAS SHALL BE SEEDING NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.
- O. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
- P. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- Q. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
- R. ON-SITE & OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERIC PERMIT REQUIREMENTS.
- S. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
- T. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES TO PREVENT EROSION.
- U. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

BEST MANAGEMENT PRACTICES SEQUENCE

- NOTE: UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAY DOWN PORTA-POTTY, WASH, CONCRETE WASH-OUT, MASON'S AREA, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC. IMMEDIATELY NOTIFY THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.
1. INSTALL STABILIZED CONSTRUCTION EXITS AND SWPPP INFORMATION SIGN.
 2. INSTALL SILT FENCES ON THE SITE (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL SILT FENCE).
 3. PREPARE TEMPORARY PARKING AND STORAGE AREA.
 4. HALT ALL ACTIVITIES AND CONTACT THE CEC TO PERFORM INSPECTION AND CERTIFICATION OF BMPs. GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT THE STORMWATER PRE-CONSTRUCTION MEETING WITH THE CEC, WALMART CONSTRUCTION MANAGER, AGENCIES AND GROUND DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.
 5. ALL EXCEPTIONS NOTED ON THE BMP CERTIFICATION FORM MUST BE ADDED TO THE FIRST DAILY REPORT AS A DEFICIENCY OR DEFICIENCIES AND RESOLVED WITHIN 24 HOURS. BMPs CAN NOT BE CERTIFIED IF ANY EXCEPTION REQUIRES GREATER THAN 24 HOURS TO RESOLVE.
 6. DAILY INSPECTIONS AND REPORTING USING THE SWPPP MANAGEMENT TOOL MUST START THE DAY OF OR IMMEDIATELY AFTER BMP CERTIFICATION.
 7. CONSTRUCT AND STABILIZE SEDIMENT BASINS AND SEDIMENT TRAPS WITH APPROPRIATE OUTFALL STRUCTURES (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL BASINS AND TRAPS).
 8. INSTALL AND STABILIZE HYDRAULIC CONTROL STRUCTURES (DICES, SWALES, CHECK DAMS, ETC.).
 9. BEGIN CLEARING AND GRUBBING THE SITE.
 10. BEGIN GRADING THE SITE.
 11. START CONSTRUCTION OF BUILDING PAD AND STRUCTURES.
- PHASE II**
1. TEMPORARILY SEED THROUGHOUT CONSTRUCTION DENIED AREAS THAT WILL BE PRACTICE FOR 7 DAYS OR MORE.
 2. INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS, CURBS AND GUTTERS.
 3. INSTALL RIP-RAP AROUND OUTLET STRUCTURES AS EACH OUTLET STRUCTURE IS INSTALLED.
 4. INSTALL INLET PROTECTION AT ALL STORM SEWER STRUCTURES AS EACH INLET STRUCTURE IS INSTALLED.
 5. PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
 6. PREPARE SITE FOR PAVING.
 7. PAVE SITE.
 8. INSTALL APPROPRIATE INLET PROTECTION DEVICES FOR PAVED AREAS AS WORK PROGRESSES.
 9. COMPLETE GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL AREAS INCLUDING OUTLETS.
 10. OBTAIN CONCURRENT WITH WALMART CONSTRUCTION MANAGER THAT THE SITE HAS BEEN FULLY STABILIZED THEN:
 - A. REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES.
 - B. STABILIZE ANY AREAS DISTURBED BY THE REMOVAL OF BMPs AND
 - C. ASK THE CM TO CONTACT THE CEC TO COMPLETE THE CEC NOT SITE INSPECTION AND REPORT.
 11. CONTINUE DAILY INSPECTION REPORTS UNTIL THE FINAL DAILY INSPECTION REPORT, MARKED READY TO TERMINATE PERMIT, IS SIGNED BY THE CONSTRUCTION MANAGER AND SUBMITTED VIA THE SWPPP MANAGEMENT TOOL.
- NOTE: THE GENERAL CONTRACTOR MAY COMPLETE CONSTRUCTION-RELATED ACTIVITIES CONCURRENTLY ONLY IF ALL PRECEDING BMPs HAVE BEEN COMPLETELY INSTALLED. BMP-RELATED STEPS IN THE ABOVE SEQUENCE ARE ITALICIZED FOR CLARITY.

ACREAGE SUMMARY (IN ACRES)

WAL-MART SITE AREA	32
ON-SITE DISTURBED AREA	82
OFF-SITE DISTURBED AREA	23
TOTAL DISTURBED AREA	55
IMPERVIOUS AREA AT COMPLETION	20
PERVIOUS AREA AT COMPLETION	35

- LEGEND**
- BOUNDARY LINE
 - RIGHT OF WAY LINE
 - DIRECTION OF OVERLAND FLOW W/ GRADE
 - LIMITS OF DRAINAGE SUB-BASIN
 - PROPOSED LIMITS OF DISTURBANCE
- EROSION DETAILS**
- TEMPORARY STONE CONSTRUCTION EXIT/ENTRANCE
 - RIP-RAP PAD
 - TEMPORARY SEDIMENTATION/SILT FENCE
 - TEMPORARY DIVERSIONS
 - SWPPP INFORMATION SIGN
 - TEMPORARY SEDIMENT BASIN
 - TEMPORARY SEDIMENT TRAP
 - ROCK CHECK DAM
- EROSION NOTES**
- TEMPORARY SEEDING AND MULCH
 - SOIL TYPE: ARDENNON/URBAN LAND COMPLEX (0 TO 5% SLOPES)
 - SOIL TYPE: MILLHOPPER SAND (0 TO 5% SLOPES)
 - SOIL TYPE: LOCHLOOSA FINE SAND (2 TO 5% SLOPES)
 - SOIL TYPE: NORFOLK LOAMY FINE SAND (2 TO 5% SLOPES)
 - SOIL TYPE: GAINESVILLE SAND (0 TO 5% SLOPES)
 - SOIL TYPE: MILLHOPPER SAND (5 TO 8% SLOPES)
 - SOIL TYPE: LOCHLOOSA FINE SAND (5 TO 8% SLOPES)
 - SOIL TYPE: KENDRICK SAND (5 TO 8% SLOPES)
 - SOIL TYPE: NORFOLK LOAMY FINE SAND (5 TO 8% SLOPES)

OFF-SITE MATERIAL AREA(S) INFORMATION

BORROW SITE NAME:	DISPOSAL SITE NAME:
BORROW SITE ADDRESS:	DISPOSAL SITE ADDRESS:
BORROW SITE PERMIT HOLDER:	DISPOSAL SITE PERMIT HOLDER:
BORROW SITE PERMIT NO.:	DISPOSAL SITE PERMIT NO.:
BORROW SITE PERMITTING AGENCY:	DISPOSAL SITE PERMITTING AGENCY:

1) CONTRACTOR SHALL FILL IN BORROW AND DISPOSAL INFORMATION ABOVE.
2) BORROW AND DISPOSAL INFORMATION IS NEEDED FOR SOIL FILL AND SPILL MATERIALS ONLY.
3) CONTRACTOR SHALL STATE "NOT REQUIRED FOR THIS PROJECT" IF ONE OR BOTH ARE NOT REQUIRED FOR PROJECT.

OFF-SITE RUN-ON ACREAGE SUMMARY*

OFF-SITE DRAINAGE AREA	ACREAGE	AVERAGE SLOPE	MAXIMUM SLOPE	COVER TYPE**
AREA 1	22.35	5%	10.64%	VEGETATED
AREA 2	5.18	5%	5.61%	VEGETATED
AREA 3	0.88	2%	2.88%	VEGETATED

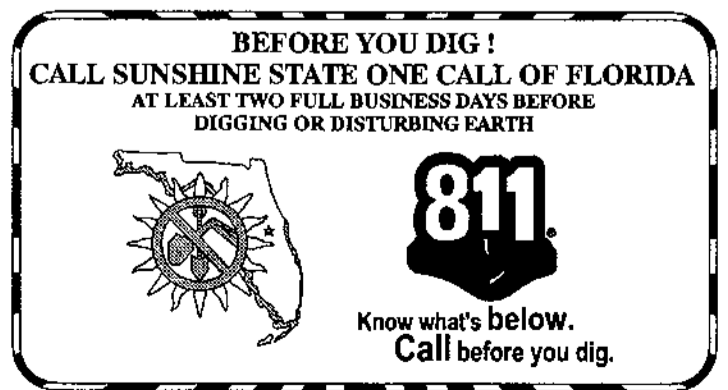
* IDENTIFY UP-GRADE RUN-ON AREAS FOR EACH PERIMETER AREA RECEIVING RUN-ON.
** STATE PREDOMINANT TYPE OF SURFACE COVER (I.E. VEGETATED, PAVED, ROCKED, ETC.).

SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE

NOTE: GENERAL CONTRACTOR TO COMPLETE TABLE WITH THEIR SPECIFIC PROJECT SCHEDULE

CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TEMPORARY CONSTRUCTION EXITS												
TEMPORARY CONTROL MEASURES												
SEDIMENT CONTROL BASINS												
STRIP & STOCKPILE TOPSOIL												
ROUGH GRADE												
STORM FACILITIES												
SITE CONSTRUCTION												
PERMANENT CONTROL STRUCTURES												
FOUNDATION / BUILDING CONSTRUCTION												
FINISH GRADING												
LANDSCAPING/SEED/FINAL STABILIZATION												

1) CONTRACTOR SHALL UPDATE THE TABLE BY DATING THE APPLICABLE ACTIVITIES AS PROJECT PROGRESSES.
2) TIME SCHEDULE MUST COINCIDE WITH SEQUENCE OF CONSTRUCTION.



WAL-MART STORES, INC.
DIRECTOR OF STORM WATER COMPLIANCE
MARK GOLDSMITH, CPESC

DEVELOPER/OWNER:
WAL-MART STORES EAST, L.P.
2001 SE 10TH STREET
BENTONVILLE, AR 72712
479-273-4000
SITE OPERATOR/GENERAL CONTRACTOR:
SUPERINTENDENT:

gph
500 West Fulton Street
Sanford, Florida 32771
P. O. Box 2808
Sanford, Florida 32772-2808
Phone 407 332-6841
Fax 407 330-0639

Engineers
Surveyors
Architects
Planners
Landscape Architects
Environmental Scientists
Construction Management
Traffic / Transportation

Eng. C.O.A. No. 3215
Survey L.B. No. 7143
Arch. Lic. No. A12600926
Landscape Lic. No. LC0000298
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FLORIDA PROFESSIONAL SURVEYOR
No. 55557
HOWARD L. WISKY, JR., P.E.

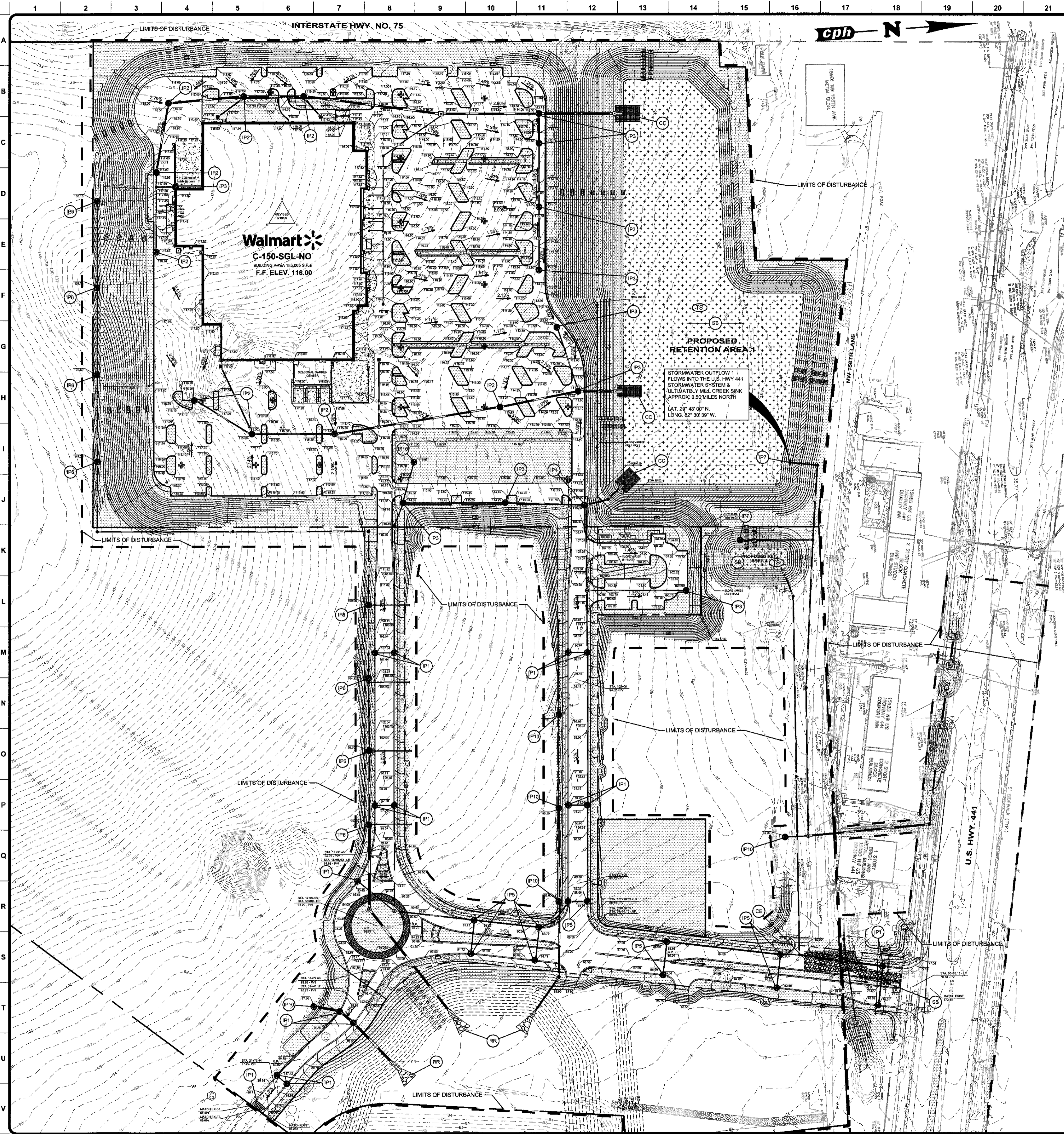
By	Date	City	Submittal

Designed by: C.D.P.
Drawn by: C.D.P.
Checked by: J.D.L.
Approved by: H.L.W.
Scale: 1" = 100'
Date: 12/20/09
Job No.: W13392.1
File: ECP-MAR-ET

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PHASE 1 EROSION AND SEDIMENTATION CONTROL SWPPP "SITE MAP"

Sheet No. **C-4A**



SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE

NOTE: GENERAL CONTRACTOR TO COMPLETE TABLE WITH THEIR SPECIFIC PROJECT SCHEDULE

CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TEMPORARY CONSTRUCTION EXITS																								
TEMPORARY CONTROL MEASURES																								
SEDIMENT CONTROL BASINS																								
STRIP & STOCKPILE TOPSOIL																								
ROUGH GRADE																								
STORM FACILITIES																								
SITE CONSTRUCTION																								
PERMANENT CONTROL STRUCTURES																								
FOUNDATION / BUILDING CONSTRUCTION																								
FINISH GRADING																								
LANDSCAPING/SEED/FINAL STABILIZATION																								

1) CONTRACTOR SHALL UPDATE THE TABLE BY DATING THE APPLICABLE ACTIVITIES AS PROJECT PROGRESSES.
 2) TIME SCHEDULE MUST COINCIDE WITH SEQUENCE OF CONSTRUCTION.

OFF-SITE MATERIAL AREA(S) INFORMATION

BORROW SITE NAME:	DISPOSAL SITE NAME:
BORROW SITE ADDRESS:	DISPOSAL SITE ADDRESS:
BORROW SITE PERMIT HOLDER:	DISPOSAL SITE PERMIT HOLDER:
BORROW SITE PERMIT NO.:	DISPOSAL SITE PERMIT NO.:
BORROW SITE PERMITTING AGENCY:	DISPOSAL SITE PERMITTING AGENCY:

1) CONTRACTOR SHALL FILL IN BORROW AND DISPOSAL INFORMATION ABOVE.
 2) BORROW AND DISPOSAL INFORMATION IS NEEDED FOR SOIL FILL AND SPOIL MATERIALS ONLY.
 3) CONTRACTOR SHALL STATE "NOT REQUIRED FOR THIS PROJECT" IF ONE OR BOTH ARE NOT REQUIRED FOR PROJECT.

OFF-SITE RUN-ON ACREAGE SUMMARY*

OFF-SITE DRAINAGE AREA	ACREAGE	AVERAGE SLOPE	MAXIMUM SLOPE	COVER TYPE**
AREA 1	22.36	5%	10.84%	VEGETATED
AREA 2	5.18	5%	5.81%	VEGETATED
AREA 3	0.68	2%	2.68%	VEGETATED

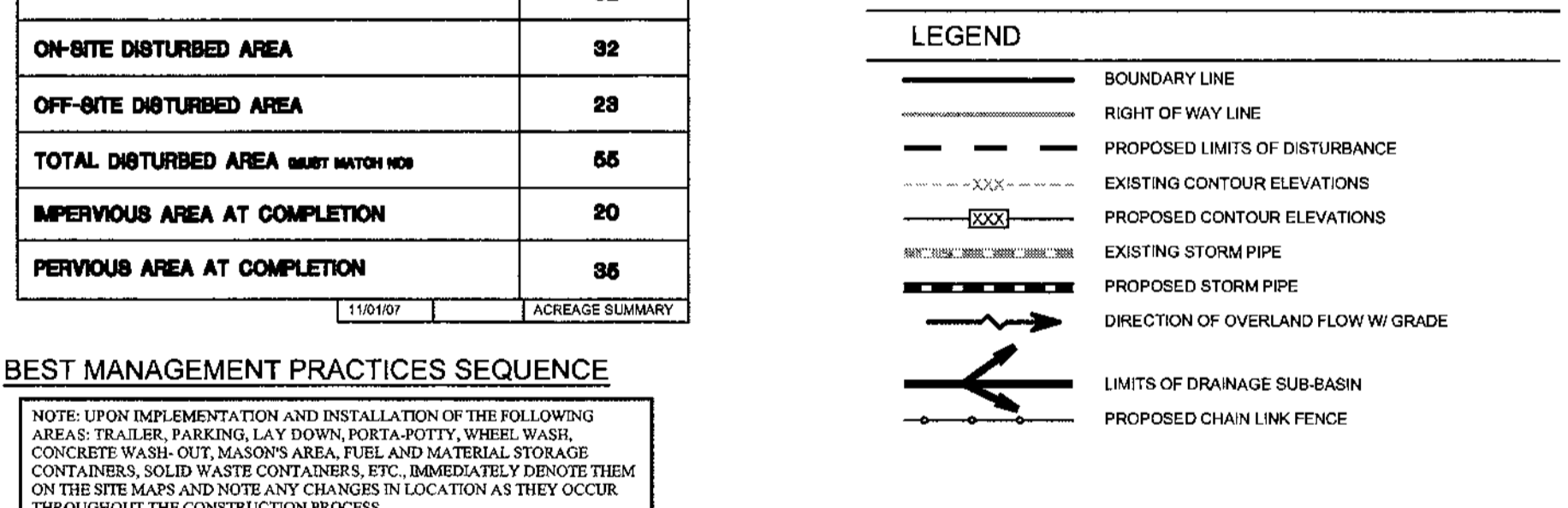
DEVELOPER/OWNER:
 WAL-MART STORES EAST, L.P.
 2001 SE 10TH STREET
 BENTONVILLE, AR 72712
 479-273-4000

SITE OPERATOR/GENERAL CONTRACTOR:

* IDENTIFY UP-GRADIENT RUN-ON AREAS FOR EACH PERIMETER AREA RECEIVING RUN-ON.
 ** STATE PREDOMINANT TYPE OF SURFACE COVER (I.E. VEGETATED, PAVED, ROCKED, ETC.)

ACREAGE SUMMARY (IN ACRES)

WAL-MART SITE AREA	32
ON-SITE DISTURBED AREA	32
OFF-SITE DISTURBED AREA	28
TOTAL DISTURBED AREA (BEST MATCH)	55
IMPERVIOUS AREA AT COMPLETION	20
PERVIOUS AREA AT COMPLETION	35



BEST MANAGEMENT PRACTICES SEQUENCE

NOTE: UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING LAY DOWN, WASH, WASH, WASH, CONCRETE WASH-OUT, MASON'S AREA, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC. IMMEDIATELY REMOVE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.

PHASE 1

- INSTALL STABILIZED CONSTRUCTION EXITS AND SWPPP INFORMATION SIGN.
- INSTALL SILT FENCES ON THE SITE (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL SILT FENCE).
- PREPARE TEMPORARY PARKING AND STORAGE AREA.

HALT ALL ACTIVITIES AND CONTACT THE CEC TO PERFORM INSPECTION AND CERTIFICATION OF BMPs. GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT THE STORM WATER PRE-CONSTRUCTION MEETING WITH THE CEC, WALMART CONSTRUCTION MANAGER, AGENCY(IES) AND GROUND DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.

ALL EXCEPTIONS NOTED ON THE BMP CERTIFICATION FORM MUST BE ADDED TO THE FIRST DAILY REPORT AS A DEFICIENCY OR DEFICIENCIES AND RESOLVED WITHIN 24 HOURS. BMP'S CAN NOT BE CERTIFIED IF ANY EXCEPTION REQUIRES GREATER THAN 24 HOURS TO RESOLVE.

DAILY INSPECTIONS AND REPORTING USING THE SWPPP MANAGEMENT TOOL MUST START THE DAY OF OR IMMEDIATELY AFTER BMP CERTIFICATION.

PHASE 2

- CONSTRUCT AND STABILIZE SEDIMENT BASINS AND SEDIMENT TRAPS WITH APPROPRIATE OUTFALL STRUCTURES (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL BASINS AND TRAPS).
- INSTALL AND STABILIZE METALLIC CONTROL STRUCTURES (DOES, SLOES, CHECK DAMS, ETC.).
- BEGIN CLEARING AND GRUBBING THE SITE.
- BEGIN GRADING THE SITE.
- START CONSTRUCTION OF BUILDING PAD AND STRUCTURES.

PHASE 3

- TEMPORARILY SEED THROUGHOUT CONSTRUCTION DISTURBED AREAS THAT WILL BE INCULCATED FOR 7 DAYS OR MORE.
- INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS, CURBS AND GUTTERS. INSTALL RIP-RAP AROUND OUTLET STRUCTURES AS EACH OUTLET STRUCTURE IS INSTALLED.
- INSTALL INLET PROTECTION AT ALL STORM SEWER STRUCTURES AS EACH INLET STRUCTURE IS INSTALLED.
- PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
- PREPARE SITE FOR PAVING.
- PAVE SITE.
- INSTALL APPROPRIATE INLET PROTECTION DEVICES FOR PAVED AREAS AS WORK PROGRESSES.
- COMPLETE GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL AREAS INCLUDING GUT LOTS.
- OBTAIN CONCURRENT WITH WAL-MART CONSTRUCTION MANAGER THAT THE SITE HAS BEEN FULLY STABILIZED THEN:
- REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES.
- STABILIZE ANY AREAS DISTURBED BY THE REMOVAL OF BMPs AND ASK THE CM TO CONTACT THE CEC TO COMPLETE THE CEC NOT SITE INSPECTION AND REPORT.
- CONTINUE DAILY INSPECTION REPORTS UNTIL THE FINAL DAILY INSPECTION REPORT, MARKED READY TO TERMINATE PERMIT, IS SIGNED BY THE CONSTRUCTION MANAGER AND SUBMITTED VIA THE SWPPP MANAGEMENT TOOL.

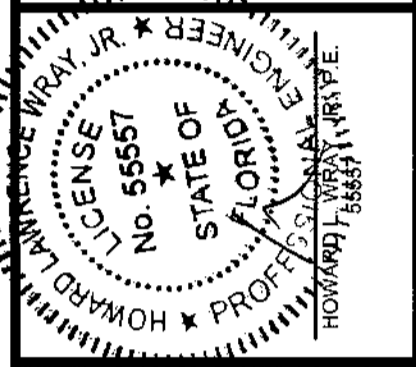
NOTE: THE GENERAL CONTRACTOR MAY COMPLETE CONSTRUCTION-RELATED ACTIVITIES CONCURRENTLY ONLY IF ALL PRECEDING BMPs HAVE BEEN COMPLETELY INSTALLED. BMP-RELATED STEPS IN THE ABOVE SEQUENCE ARE ITALICIZED FOR CLARITY.

gph

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Eng. C.O.A. No. 3215
 Survey L.B. No. 7143
 Arch. Lic. No. A12600926
 Landsc. Lic. No. LC0000298
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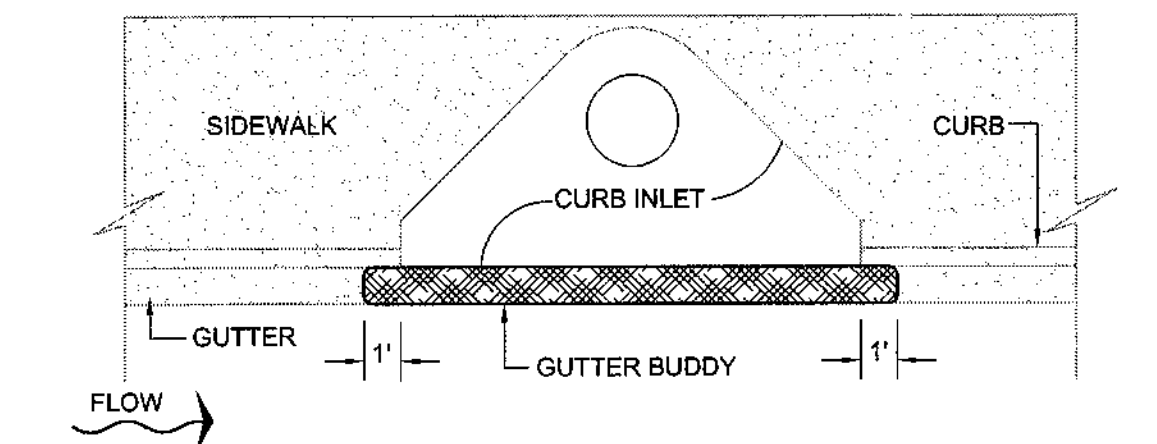
PHASE 2 EROSION AND SEDIMENTATION CONTROL SWPPP "SITE MAP"

Sheet No. **C-4B**

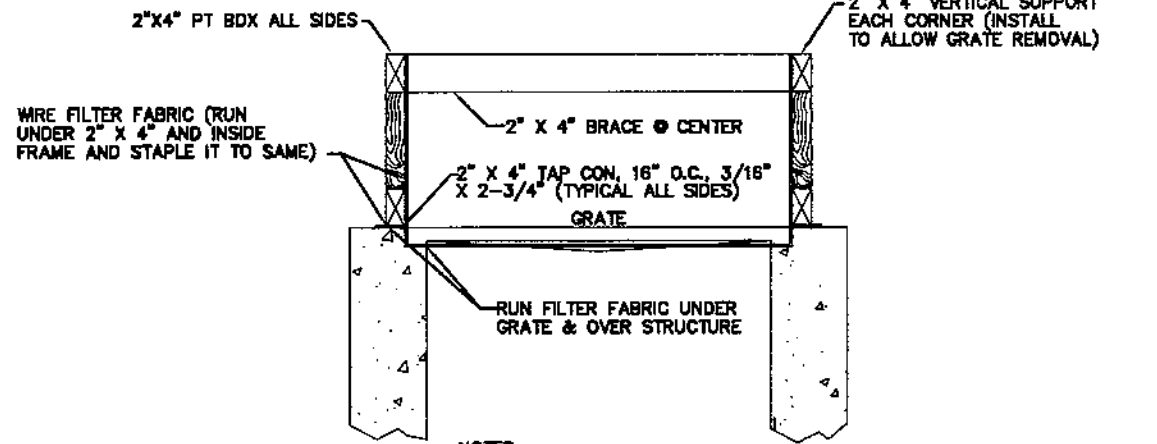
Director of Storm Water Compliance
 MARK GOLDSMITH, CPESC

Designed by: C.D.P.
 Drawn by: C.D.P.
 Checked by: J.D.L.
 Approved by: H.L.W.
 Scale: 1" = 100'
 Date: 12/20/08
 Job No.: W13592.1
 File: ECP-INSET

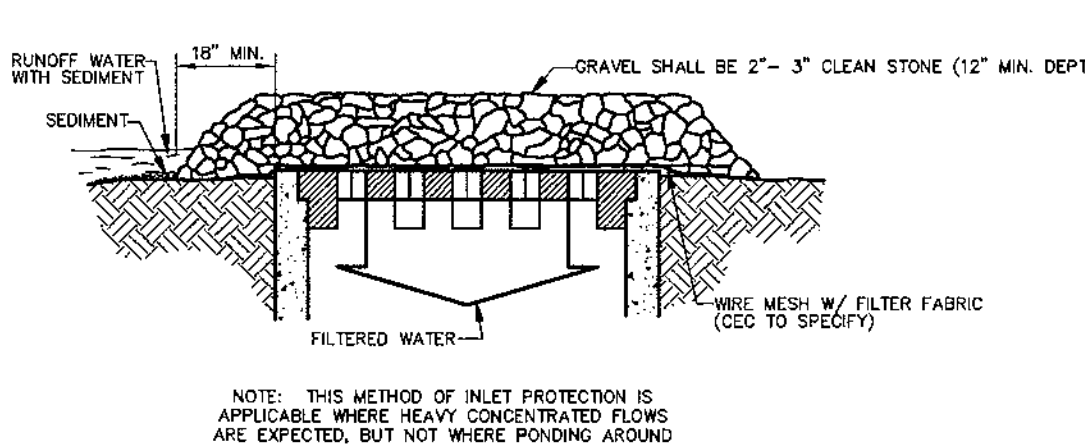
By: [Signature]
 Date: [Date]
 City Submittal: [Date]
 Revision: [Date]



CURB INLET PROTECTION DETAIL (IP1)
N.T.S.



INLET PROTECTION DETAIL (IP2)
N.T.S.

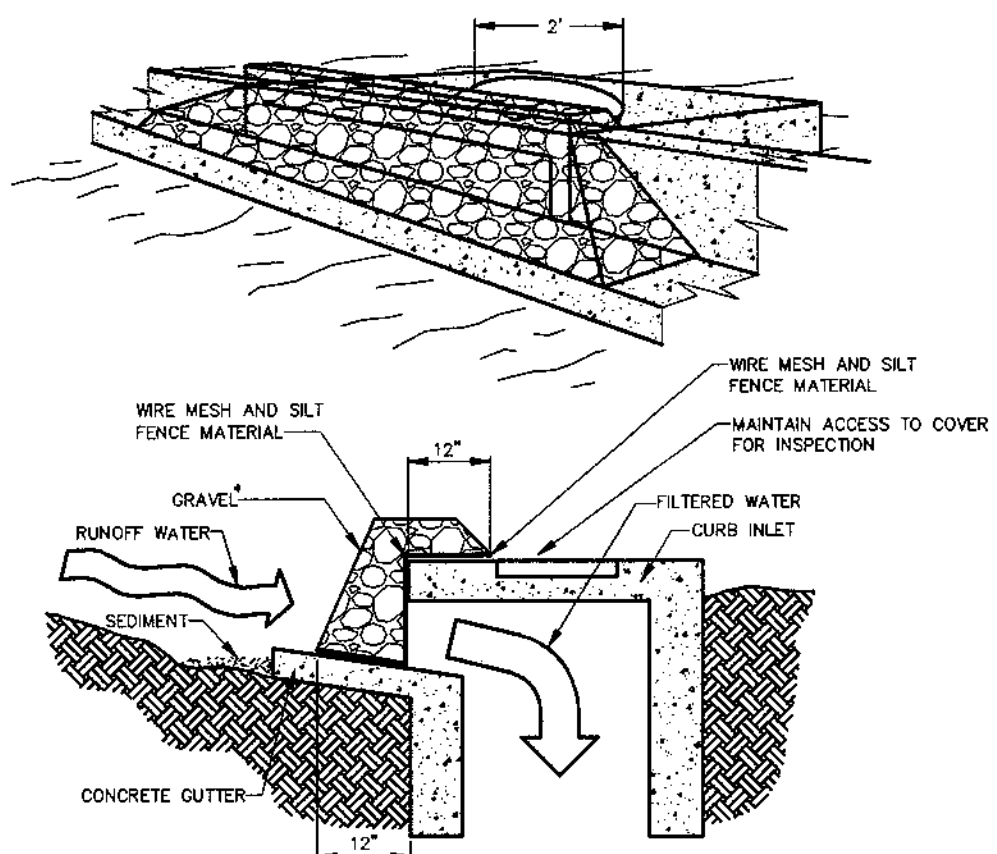


GRAVEL AND WIRE MESH INLET SEDIMENT FILTER (IP3)
N.T.S.

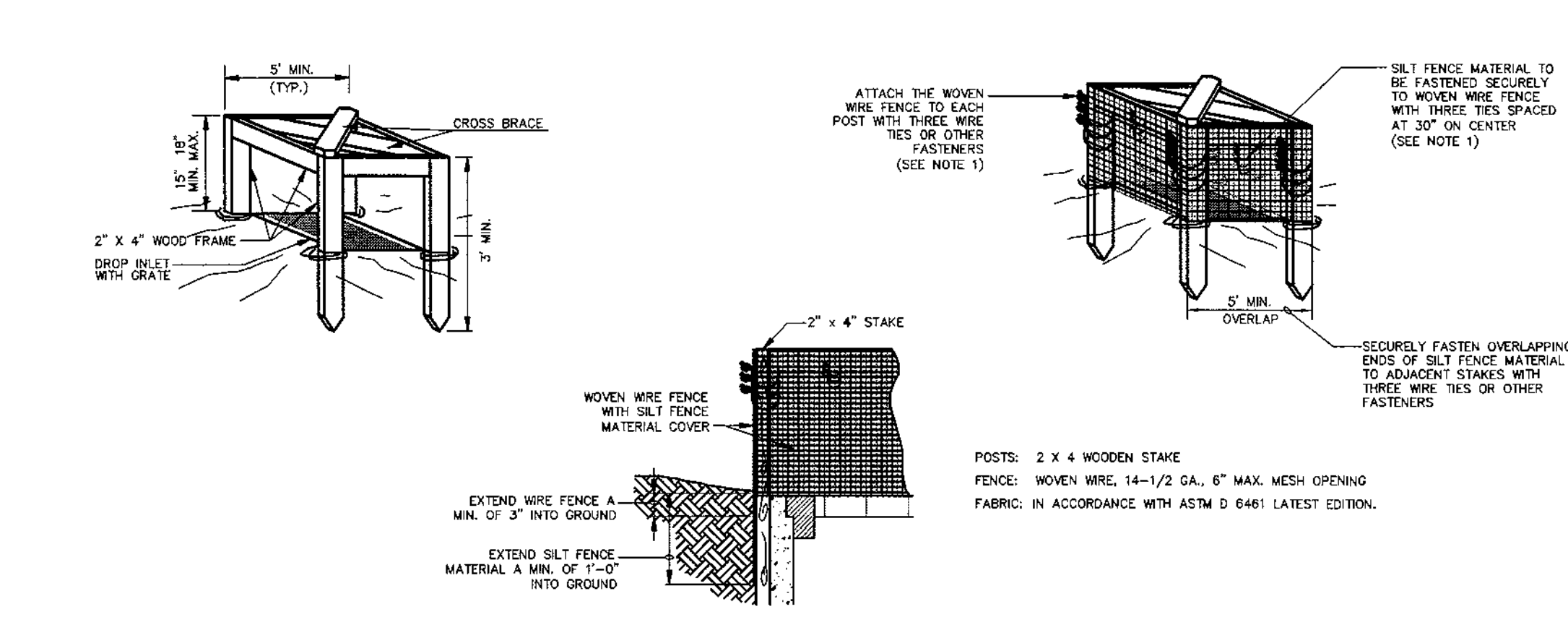
CPH DETAIL 11/1/04

CPH DETAIL 11/1/04

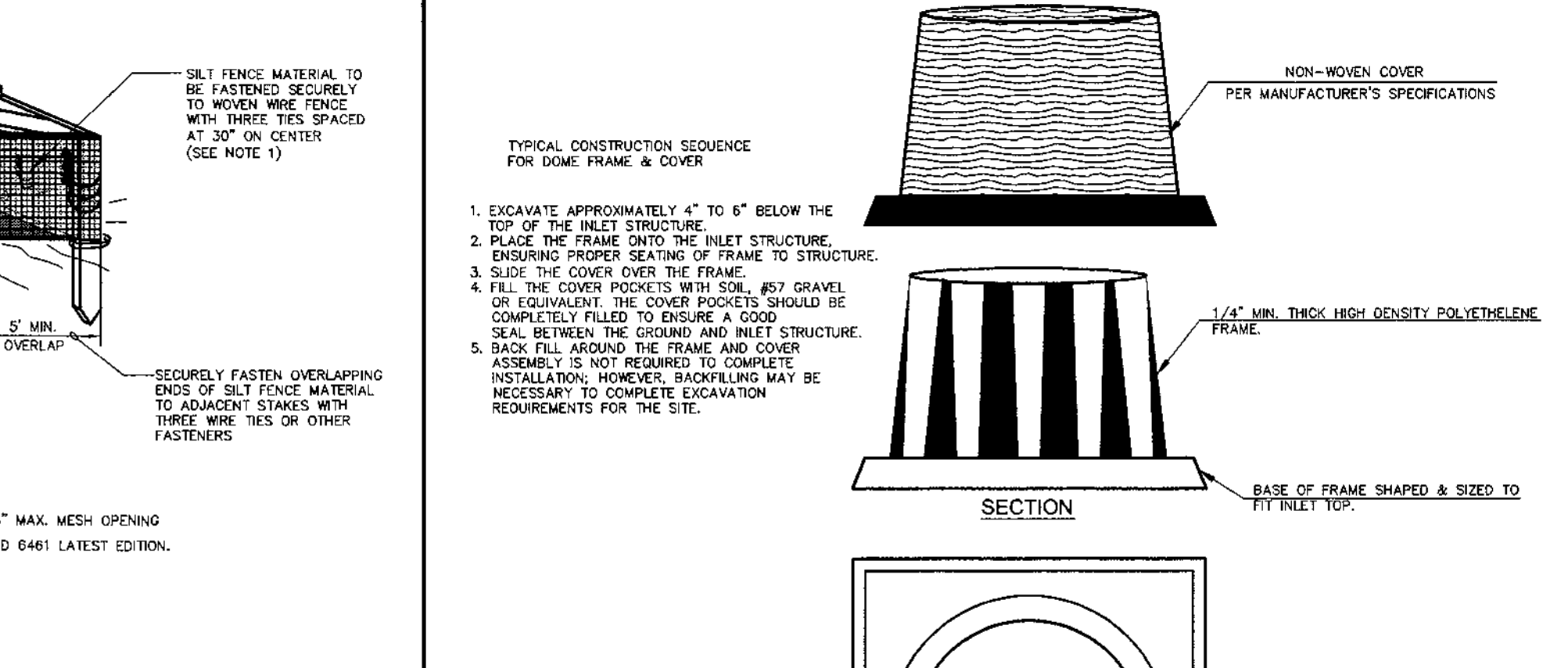
DTGWSF 11/01/07



GRAVEL CURB INLET SEDIMENT FILTER (IP5)
N.T.S.



SILT FENCE INLET PROTECTION (IP6)
N.T.S.

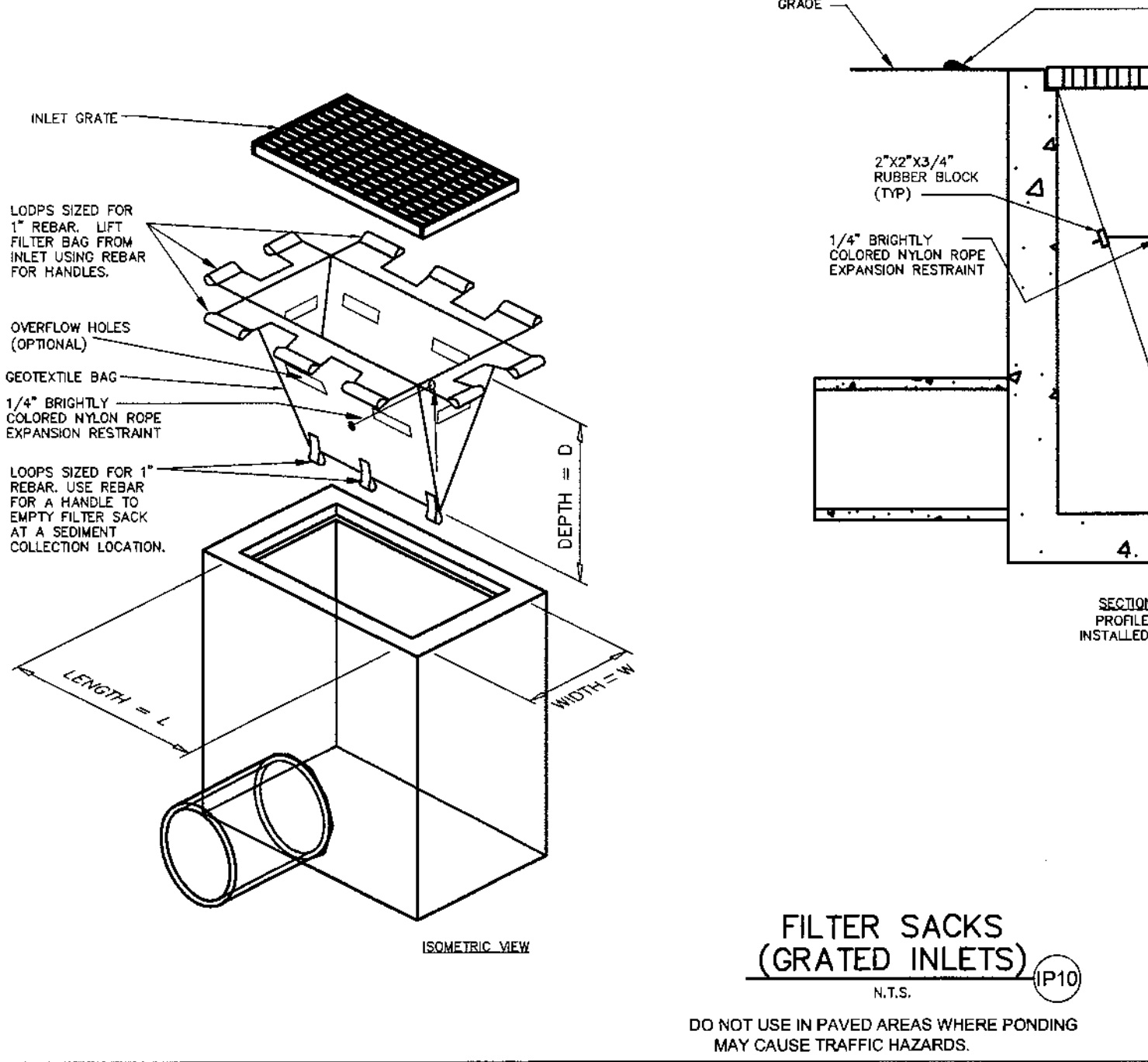


DOMED INLET PROTECTION (PREFABRICATED) (IP7)
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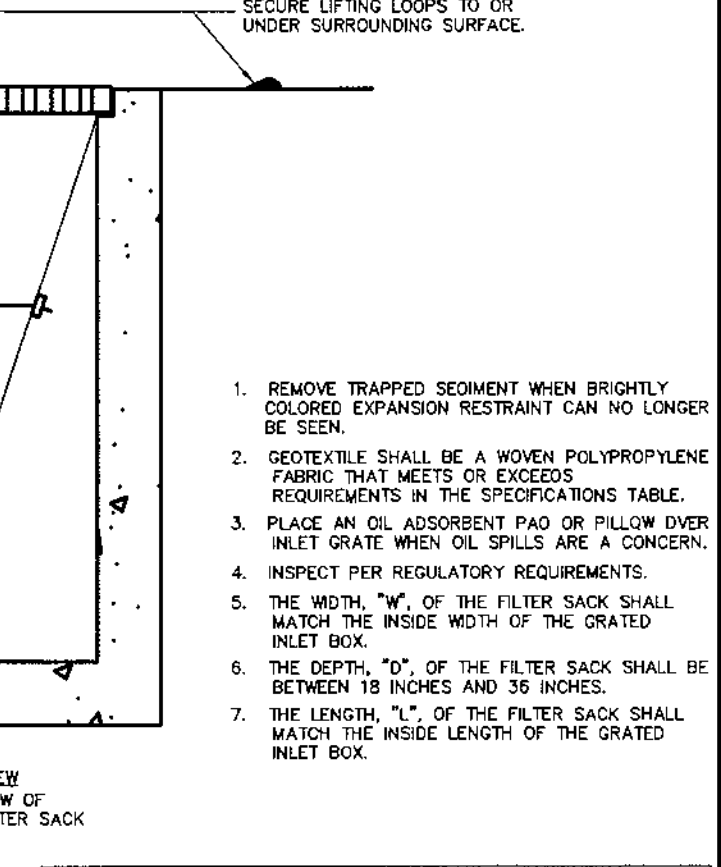
DTGWSF 11/01/07

11/02/07 SF INLET

DT-IP7 11/01/07

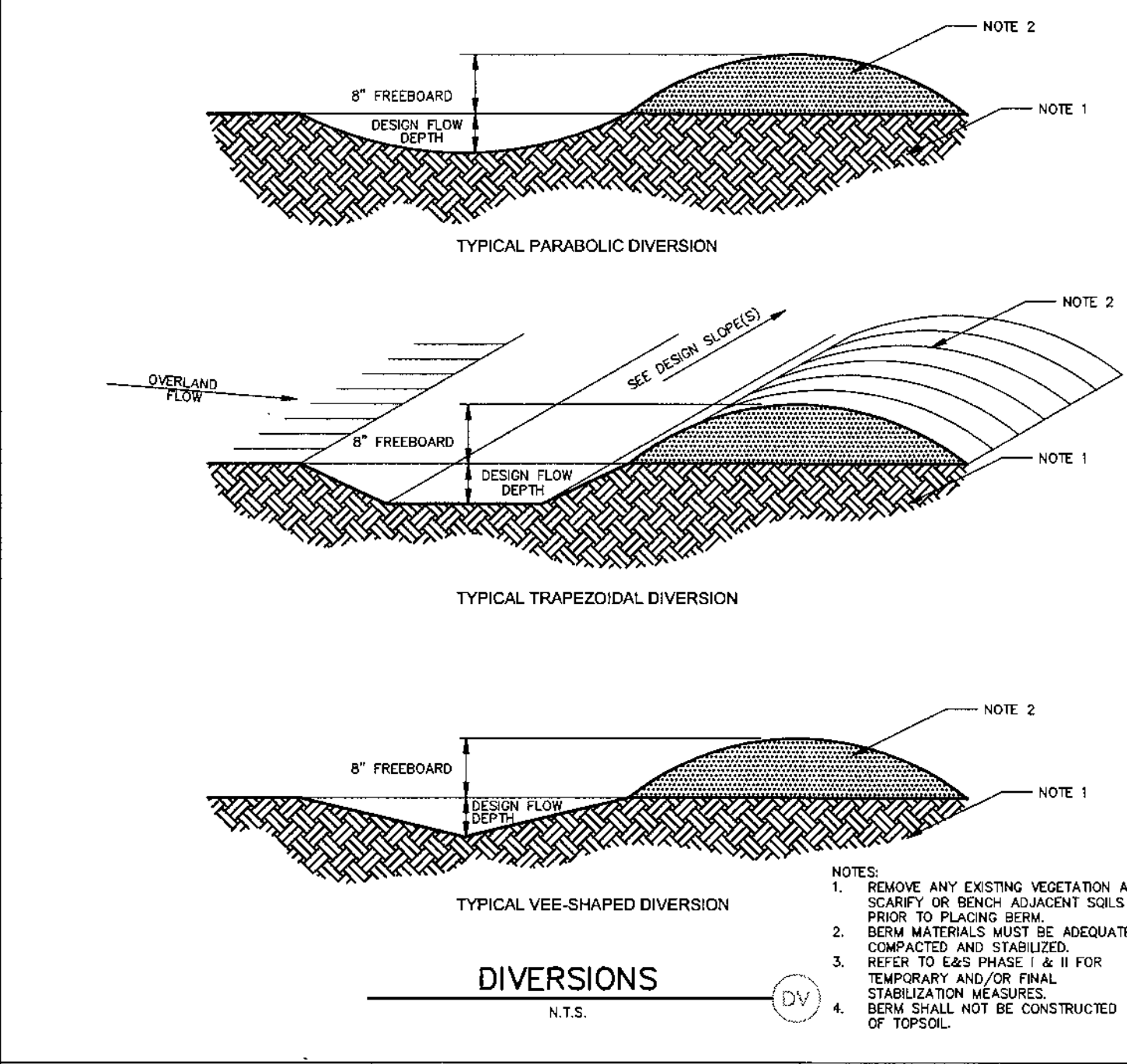


FILTER SACKS (GRATED INLETS) (IP10)
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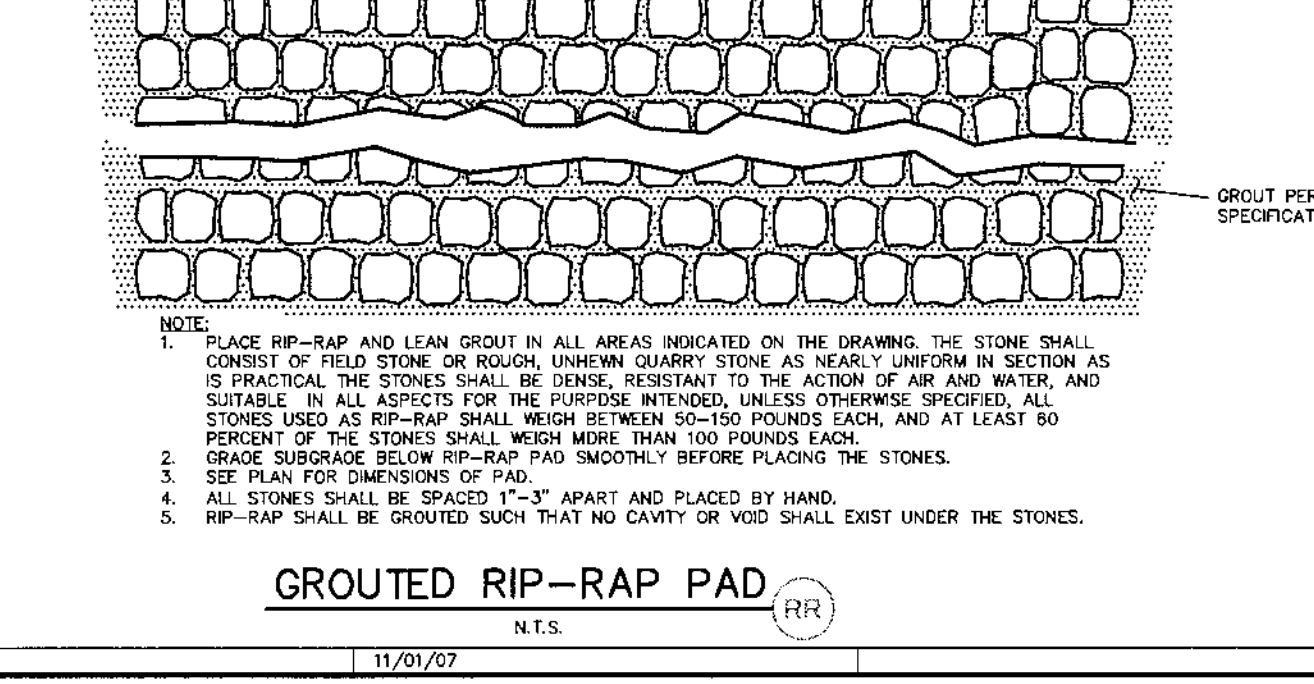


LOW TO MODERATE FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	100 LBS
MULLEN BURST	ASTM D-3786	800 PSF
TRAPZOID TEAR	ASTM D-4533	100 LBS
UV RESISTANCE	ASTM D-4355	60 %
APPEARANT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/50 FT PERMITTIVITY
PERMITTIVITY	ASTM D-4491	0.55 SEC -1

MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	285 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSF
TRAPZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	60 %
APPEARANT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/50 FT PERMITTIVITY
PERMITTIVITY	ASTM D-4491	1.5 SEC -1



DIVERSIONS (DV)
N.T.S.



GROUTED RIP-RAP PAD (RR)
N.T.S.

gph
500 West Fulton Street
Sanford, Florida 32771
P. O. Box 2800
Sanford, Florida 32772-2808
Phone 407-322-6841
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Engineers
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Eng. C.O.A. No. 3215
Survey L.B. No. 7143
Arch. Lic. No. AA2600936
Landscape Lic. No. LC0000298
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STATE OF FLORIDA
PROFESSIONAL ENGINEER
NO. 65557
HOWARD SWAY JR., P.E.
11/1/07

By	Date	Revision

Designed by:	C.D.P.	No.	Date
Drawn by: <td>J.M.D.</td> <td></td> <td></td>	J.M.D.		
Checked by: <td>J.M.D.</td> <td></td> <td></td>	J.M.D.		
Approved by: <td>H.L.W.</td> <td></td> <td></td>	H.L.W.		
Scale: <td>NONE</td> <td></td> <td></td>	NONE		
Date: <td>12/20/09</td> <td></td> <td></td>	12/20/09		
Job No.: <td>WT13392.1</td> <td></td> <td></td>	WT13392.1		
File: <td>EROSION.DWG</td> <td></td> <td></td>	EROSION.DWG		

EROSION AND SEDIMENTATION CONTROL DETAILS

Walmart

STORE NO. 3873-00, ALACHUA (SEC. 1-75 & HWY. 441), FLORIDA

EROSION CONTROL DETAILS SHOWN ON THIS SHEET ARE WAL-MART AND CPH ENGINEERS, INC. STANDARD DETAILS

GENERAL SITE NOTES

- FOR LEGAL DESCRIPTION, BOUNDARY INFO., AND BENCHMARK INFO., SEE SITE SURVEY SHEETS.
- PRIOR TO ANY CONSTRUCTION, CONTRACTOR SHALL FIELD STAKE ALL CENTERLINE GEOMETRY TO ENSURE PROPOSED DIMENSIONS FIT EXISTING CONDITIONS. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARISE.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS.
- CONTRACTOR SHALL MATCH PROPOSED CURB AND GUTTER, CONCRETE AND PAVEMENT TO EXISTING IN GRADE AND ALIGNMENT.
- THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL BUILDING PLANS AND SPECIFICATIONS.
- SITWORK FOR THIS PROJECT SHALL MEET OR EXCEED THE "WAL-MART SITEWORK SPECIFICATIONS".
- CONTRACTOR IS RESPONSIBLE FOR REPAIRING THE DAMAGE DONE TO ANY EXISTING ITEM DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE UTILITIES, PAVEMENT, STRIPING, CURB, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
- CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, SLOPE PAVING, SIDEWALKS, EXIT PORCHES, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
- ALL DISTURBED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL, SEED, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
- ALL ISLANDS WITH CURB & GUTTER SHALL BE LANDSCAPED. THOSE ISLANDS ARE TO HAVE 18" CURB & GUTTER. ALL REMAINING ISLANDS ARE TO BE STRIPED AS SHOWN.
- ALL CURBED RADI ARE TO BE 10' AND 3' UNLESS OTHERWISE NOTED. STRIPED RADI ARE TO BE 10' AND 3'.
- ALL DIMENSIONS AND RADI ARE TO THE FACE OF CURB UNLESS NOTED (BOC) WHICH INDICATES BACK OF CURB.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
- SITE BOUNDARY, TOPOGRAPHY, UTILITY AND ROAD INFORMATION TAKEN FROM A SURVEY BY A LAND SURVEYOR.
- REFER TO ARCH. PLANS FOR SITE LIGHTING AND ELECTRICAL PLANS.
- ALL PAINT USED FOR PARKING STRIPING SHALL BE ALKYLID PETROLEUM BASED PAINT. TWO COATS OF PAINT TO BE USED.
- STOP BAR STRIPING SHALL BE 2" WIDE WHITE THERMOPLASTIC WITHIN ENTRANCE DRIVES ONLY. ALL OTHER ON-SITE STOP BARS WILL BE 1" WIDE AND PAINTED WHITE.
- PROPOSED ACCESSIBLE PARKING SIGNS TO BE INSTALLED AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING SIGNS NEEDED. ALL ACCESSIBLE SIGNS SHALL BE BUILT INSIDE PIPE BOLLARD PER DETAIL LOCATED ON DETAIL SHEET C-12A.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PLACING PEDESTRIAN CROSSING SIGNS AS INDICATED ON PLANS. CONTRACTOR TO VERIFY EXACT NUMBER OF SIGNS REQUIRED. SEE DETAIL SHEET C-12A.
- CONTRACTOR SHALL LOCATE PROPOSED AISLEROW SIGNS AS REQUIRED TO ACCOMMODATE PROPOSED LANDSCAPE ISLAND CONSTRUCTION.
- ALL SIGNS SHALL HAVE 7'-0" MIN. CLEARANCE FROM FINISH GRADE TO BOTTOM OF LOWEST SIGN MOUNTED ON POST.
- CONTRACTOR SHALL CONSTRUCT AND INSTALL PROPOSED CART CORNERS PER WAL-MART SPECIFICATIONS. PLACEMENT SHALL BE COORDINATED WITH WAL-MART CONSTRUCTION MANAGER.
- CONTRACTOR SHALL FOLLOW ALL LOCAL, STATE AND FEDERAL REGULATIONS IN DISPOSING OF ALL MATERIALS REMOVED FROM THIS SITE.
- CONTRACTOR IS TO INSTALL SMOOTH TRANSITIONS BETWEEN CHANGES IN CURB TYPES.
- THE PROPOSED LANDSCAPE ISLANDS SHALL BE BORDERED WITH "SPILL TYPE" OR "STANDARD" CURB AND GUTTER PER DETAILS ON SHEET C-15. ADJUST GUTTER SLOPE AS REQUIRED TO MATCH GRADING INTENT ON PROPOSED ADJACENT PAVEMENT PER SHEET C-7 & C-7A.

GENERAL GRADING NOTES

- CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES AND NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES AND ALL UTILITIES PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING STRUCTURES DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
- EXISTING GRADE CONTOURS ARE SHOWN AT ONE FOOT (1') INTERVALS.
- FINISHED GRADE CONTOURS ARE SHOWN AT ONE FOOT (1') INTERVALS.
- CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND BE CONSTRUCTED TO SAME.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- SITWORK SHALL MEET OR EXCEED WAL-MART SITE SPECIFICATIONS.
- PRE-CAST STRUCTURES MAY BE USED AT CONTRACTOR'S OPTION.
- STORM PIPE ACCEPTABLE FOR USE: (REFER TO WAL-MART SITEWORK SPECIFICATIONS FOR FURTHER INFORMATION)
 - RCP, CLASS II PER ASTM C-76 (UNLESS NOTED OTHERWISE.)
 - CORRUGATED POLYETHYLENE PIPE (CPP) SHALL BE SMOOTH INTERIOR WITH AN H2O LIVE LOAD RATING & CONFORM WITH AASHTO DESIGN "H" ON M25 AND M28. ACCEPTABLE MANUFACTURERS: ADVANCED DRAINAGE SYSTEMS, INC. "ADS N-12", HANCOCK, INC. "H-Q", OR APPROVED EQUAL.
 - FOR ROOF DRAIN COLLECTOR SYSTEM N-12 HDPE PIPE (CPP) MAY BE USED. THE N-12 WATER TIGHT COUPLING, MEETING ASTM D3212 IS REQUIRED AT ALL JOINTS. FOR ROOF DRAIN COLLECTOR SYSTEM CONTECH A-2000 PVC PIPE MAY BE USED.
 - ALL STORM SEWER PIPE JOINTS AND GROUNDED CONNECTIONS TO STRUCTURES SHALL BE WRAPPED WITH FILTER FABRIC PER FDOT INDEX NO. 280 (SHEET 1 OF 4) AND 201 (SHEET 2 OF 6).
- ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
- ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT IN TO INVERT OUT.
- ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 8" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER".
- ALL CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH OF 2500 P.S.I. UNLESS OTHERWISE NOTED.
- EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS. ALL INSTALLED STRUCTURES SHALL BE CLEARED OF SILT AND DEBRIS PRIOR TO PROJECT CLOSE-OUT.
- ALL EROSION CONTROL MEASURES MUST BE INSTALLED PRIOR TO ANY LAND DISTURBANCE ACTIVITIES.
- THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- TOPOGRAPHIC INFORMATION TAKEN FROM A TOPOGRAPHIC SURVEY BY CPH ENGINEERS, INC., IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.
- CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
- CONTRACTOR SHALL MAINTAIN ALL EXISTING PARKING, SIDEWALK, DRIVES, ETC. CLEAR AND FREE FROM ANY CONSTRUCTION ACTIVITY AND/OR MATERIAL TO ENSURE EASY AND SAFE PEDESTRIAN AND VEHICULAR TRAFFIC.
- CONTRACTOR SHALL COORDINATE PROPOSED UTILITY CONSTRUCTION WITH ALL UTILITY PROVIDERS TO ALLOW THEM TO WITNESS THE CONSTRUCTION AND ENSURE THEIR PARTICULAR UTILITY LINES ARE PROTECTED.
- CONTRACTOR MUST STOP OPERATION AND NOTIFY THE OWNER FOR PROPER DIRECTION IF ANY ENVIRONMENTAL OR HEALTH RELATED CONTAMINATION IS ENCOUNTERED DURING EXCAVATION/CONSTRUCTION.
- REFER TO LANDSCAPE PLAN & GRADING PLAN FOR TREE PROTECTION AND GRADING METHODS ADJACENT TO TREES.
- ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3:1V OR STEEPER. CONTRACTOR SHALL GRASS DISTURBED AREAS IN ACCORDANCE WITH AGENCY SPECIFICATIONS AND WATER UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE EPA OR APPLICABLE STATE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES AND THE WALMART SPECIAL CONDITIONS, SECTION 8, ENVIRONMENTAL COMPLIANCE AND STORM WATER POLLUTION PREVENTION. THIS APPLIES TO WALMART BUILT PROJECTS ONLY.

GENERAL UTILITY NOTES:

- SEE COVER SHEET FOR A LIST OF UTILITY COMPANIES.
- GENERAL CONTRACTOR IS TO COORDINATE WITH APPROPRIATE UTILITY COMPANIES PRIOR TO CONSTRUCTION, ADJUSTMENT OR RELOCATION OF EXISTING UTILITIES AS DESIGNATED ON PLANS.
- THE CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITY INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
- DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES. EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO NEW UTILITY LINES BEING INSTALLED.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING UTILITY DURING CONSTRUCTION AT NO COST TO THE OWNER.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY ENTRANCES TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, TELEPHONE AND GAS SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES, IN SUCH A MANNER AS TO AVOID CONFLICT AND ASSURE PROPER DEPTH ARE ACHIEVED AS WELL AS COORDINATING WITH UTILITY REQUIREMENTS AS TO LOCATION AND SCHEDULING FOR TIE-INS/CONNECTIONS PRIOR TO CONNECTING TO EXISTING UTILITIES.
- ALL CLEAN-OUTS WITHIN THE PAVEMENT AREA SHALL BE INSTALLED WITH TRAFFIC BEARING PARTS AS APPLICABLE.
- ON-SITE SANITARY SEWER PIPE AND MANHOLE SHALL BE AS FOLLOWS:
 - PVC SEWER PIPE SHALL BE TYPE 15M PVC PIPE CONFORMING TO ASTM D3034 AND SHALL BE SDR 35 FOR 4" THROUGH 15", AND ASTM F 878, WALL THICKNESS T-1, FOR PIPE 18" THROUGH 27".
 - ALL MANHOLES SHALL BE PRECAST CONSTRUCTION. THE MINIMUM DIAMETER OF MANHOLES SHALL BE 48" FOR SEWER LINES 21" IN DIAMETER OR LESS. INTEGRALLY CAST STEPS WITH PRECAST STRUCTURES ARE NOT ALLOWED.
 - FRAMES AND COVERS SHALL BE GREY IRON PER ASTM A53, CLASS 30B AND SHALL BE US FOUNDRY TYPE 227AS, TRAFFIC BEARING (AASHTO H-20) LOADING, UNLESS OTHERWISE NOTED IN THE DRAWINGS.
- ON-SITE WATER LINES SHALL BE AS FOLLOWS:
 - BURIED DUCTILE IRON PIPE SHALL CONFORM WITH ANSI/AWWA C150/A21.50 AND C151/A21.51, AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI. BURIED PIPE SHALL COMPLY WITH THE FOLLOWING PRESSURE CLASS (PC) DESIGNATIONS UNLESS OTHERWISE INDICATED ON THE DRAWINGS: A) 12" DIAMETER AND SMALLER = PC 350; B) 14" THROUGH 20" DIAMETER = PC 250; C) 24" THROUGH 64" DIAMETER = PC 200.
 - EXPOSED PIPE SHALL BE DUCTILE IRON FLANGED AND SHALL CONFORM WITH AWWA/ANSI C150/A21.51, AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI. FLANGED PIPE SHALL COMPLY WITH THE FOLLOWING THICKNESS CLASS (TC) DESIGNATIONS UNLESS OTHERWISE INDICATED ON THE DRAWINGS: A) 3" DIAMETER AND SMALLER = TC 55; B) 4" DIAMETER = TC 54; C) 6" THROUGH 24" DIAMETER = TC 53.
 - PVC PIPE 4" - 12" SHALL CONFORM TO AWWA C900. PIPE 14" - 36" SHALL CONFORM TO AWWA C905. PIPE SHALL CONFORM TO ASTM D1578, TYPE I, GRADE 1, 4000 PSI DESIGN STRESS, AND SHALL BE NATIONAL SANITATION FEDERATION (NSF) APPROVED. PIPE SHALL BE CLASS 150 (DR18) WITH MARKINGS ON EACH SECTION SHOWING.
 - ALL SERVICE PIPING (1" - 3") SHALL BE POLYETHYLENE. SDR-PR PE PIPE SHALL BE MANUFACTURED FROM PE80B AND SHALL CONFORM TO ASTM D2239 AND AWWA C900. ALL PIPE SHALL BE DRIP PRESSURE CLASS 200 PSI. GRU SERVICES TO BE 2" P.V.C. SCH 40 SOLVENT WELD.
- ALL CONCRETE FOR ENCASEMENT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I. AT 28 DAYS.
- CONTRACTOR SHALL PROVIDE ALL APPURTENANCES SUCH AS CHECK VALVES, BACKFLOW PREVENTERS, ETC., AS REQUIRED BY GOVERNING AUTHORITIES.
- ALL WATER LINES SHALL HAVE A MINIMUM OF 3' OF COVER.
- YARD HYDRANTS, FIRE HYDRANTS OR BACKFLOW PREVENTERS INSTALLED WITHIN 3' OF THE BACK OF CURB SHALL BE PROTECTED WITH A GUARD POST.
- CONTRACTOR SHALL COORDINATE INSPECTION ON ALL UTILITIES, WITH APPROPRIATE AUTHORITIES PRIOR TO COVERING TRENCHES DURING INSTALLATION.
- CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL AUTHORITIES WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
- THE CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE RESPECTIVE UTILITY COMPANIES AND THE OWNER'S INSPECTING AUTHORITIES.
- ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
- SEE SPECIFICATIONS FOR BACK FILLING AND COMPACTION REQUIREMENTS ON UTILITY TRENCHES.
- CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS TO INCLUDE BUT NOT BE LIMITED, FOR ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA, INCLUDING THE FLORIDA TRENCH SAFETY ACT (99AS, LAWS OF FLORIDA).
- ALL FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRENCH, BEDDING, CONDUIT, PULL WIRES, BACKFILLING AND COMPACTION FOR TELEPHONE AND ELECTRICAL LINES.
- CONTRACTOR TO LOCATE LIGHT POLES AND FIXTURES AS INDICATED. CONTRACTOR TO BUILD NEW POLE BASE AND STUB CONDUIT AND WIRE AS NEEDED.
- REFER TO ARCHITECTURAL PLANS FOR SITE LIGHTING ELECTRICAL PLAN.
- MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
- LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
- TOPS OF EXISTING MANHOLES SHALL BE ADJUSTED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS, AND TO BE ONE FOOT ABOVE FINISHED GROUND ELEVATIONS WITH WATER TIGHT LIDS.
- EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
- REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
- CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES. THIS AND THE FINAL CONNECTIONS OF THE SERVICE SHALL BE COMPLETED 30 DAYS PRIOR TO STORE POSSESSION.

FOUNDATION SUBSURFACE PREPARATION

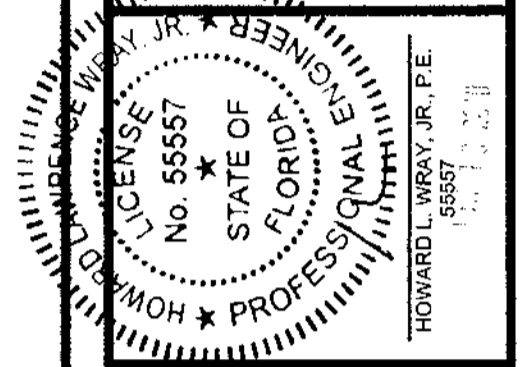
WAL-MART SUPERCENTER STORE NO. 3873-00
ALACHUA, FLORIDA
XXX09



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Eng. C.O.A. No. 3215
Survey L.B. No. 7143
Arch. Lic. No. AA2600926
Landscape Lic. No. LC0000298
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By	Date	Revision
H.L.W.	6/18/10	1
CITY SUBMITTAL		
FILE		
Job No.:	W13392.1	
Date:	1/23/06	
Scale:	NONE	
Approved by:	H.L.W.	
Checked by:	J.A.B.	
Drawn by:	C.D.P.	
Designed by:	J.K.B.	

SITE SPECIFIC NOTES SHEET

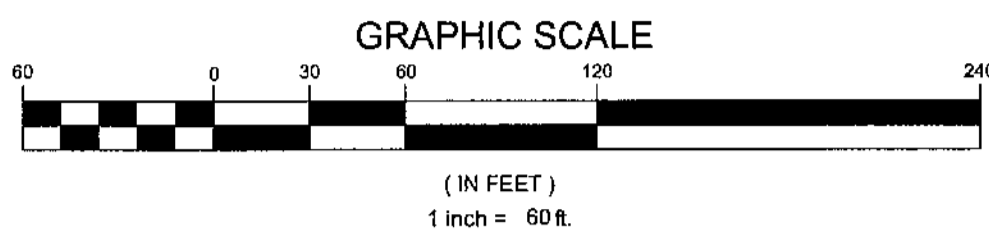
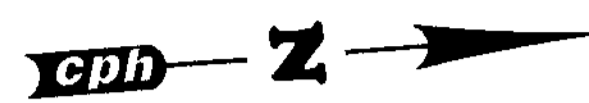


STORE NO. 3873-00, ALACHUA, (SEC. 175 HWY 441), FLORIDA

Sheet No.

C-5

MATCH LINE - REFER TO SHEET C-6A



SITE DATA

TAX PARCEL ID NO.: 03869-013-000 (WALMART PARCEL)
03864-014-000 (WALMART OUT PARCEL)
PROJECT USE: WALMART RETAIL STORE
PROJECT DESCRIPTION: CONSTRUCTION OF WALMART RETAIL STORE (GROCERY AND GENERAL MERCHANDISE), DRIVE THROUGH PHARMACY AND GARDEN CENTER, ASSOCIATED PARKING, STORMWATER MANAGEMENT & REQUIRED INFRASTRUCTURE, CONSTRUCTION OF ACCESS ROADWAY AND UTILITY INFRASTRUCTURE

ZONING INFORMATION
ZONE: PUD

LAND COVERAGE SUMMARY

	SITE AREA
WAL-MART TRACT	1,234,039.08 S.F.± (28.33 AC)
OUT PARCEL 1:	46,806.69 S.F.± (1.07 AC)
PROPOSED RETAIL PARCEL:	81,059.99 S.F.± (1.86 AC)
WAL-MART SUB TOTAL:	1,361,905.76 S.F.± (31.26 AC)
SELLER PROPOSED TRACT 1:	1,375,310.04 S.F.± (31.59 AC)
SELLER PROPOSED TRACT 2:	224,746.78 S.F.± (5.16 AC)
SELLER PROPOSED TRACT 3:	286,110.65 S.F.± (6.57 AC)
SELLER PROPOSED TRACT 4:	279,486.55 S.F.± (6.42 AC)
PARK & RIDE TRACT:	35,088.00 S.F.± (0.81 AC)
CROSS ACCESS ROAD ROW:	254,154.42 S.F.± (5.83 AC)
SELLER SUB TOTAL:	2,455,496.64 S.F.± (56.37 AC)
TOTAL SITE:	3,817,405.60 S.F.± (87.64 AC)

LAND COVERAGE SUMMARY (AS DEVELOPED BY WALMART)

	SITE AREA	OPEN SPACE AREA	IMPERVIOUS AREA
WAL-MART TRACT	1,234,039.08 S.F.± (28.33 AC)	665,237.77 S.F.± (15.27 AC) = 53.90%	568,801.31 S.F.± (13.06 AC) = 46.10%
OUT PARCEL 1:	46,806.69 S.F.± (1.07 AC)	9,381.54 S.F.± (0.21 AC) = 20.00%	37,425.15 S.F.± (0.86 AC) = 80.00%
PROPOSED RETAIL PARCEL:	81,059.99 S.F.± (1.86 AC)	23,301.80 S.F.± (0.67 AC) = 36.15%	57,758.19 S.F.± (1.19 AC) = 83.85%
PARK & RIDE TRACT:	35,088.00 S.F.± (0.81 AC)	16,965.53 S.F.± (0.39 AC) = 48.35%	18,122.47 S.F.± (0.42 AC) = 51.65%
CROSS ACCESS ROAD ROW:	254,154.42 S.F.± (5.83 AC)	91,555.75 S.F.± (2.10 AC) = 36.04%	162,598.67 S.F.± (3.73 AC) = 63.96%
TOTAL:	1,691,161.18 S.F.± (37.91 AC)	812,492.79 S.F.± (18.65 AC) = 48.20%	878,668.39 S.F.± (19.26 AC) = 50.80%

BUILDING INFORMATION

BUILDING SETBACKS:

REQUIRED:	PROPOSED:
FRONT:	750.45'
SIDE (EAST):	279.47'
SIDE (WEST):	157.58'
REAR:	161.00'

WAL-MART:

PROPOSED WALMART SUPERCENTER BUILDING AREA: 151,466 S.F.±
PROPOSED SEASONAL GARDEN CENTER: 3,628 S.F.±
TOTAL WALMART BUILDING AREA: 155,094 S.F.±
PROPOSED GARDEN CENTER FENCED AREA: 5,883 S.F.±
FLOOR AREA RATIO: 0.13
MAX. BUILDING HEIGHT: 36'-0"

RETAIL:

PROPOSED BUILDING AREA: 13,500 S.F. MAX.
FLOOR AREA RATIO: 0.17
MAX. BUILDING HEIGHT: TBD

PARKING INFORMATION:

CITY OF ALACHUA PARKING REQUIREMENTS:
1 SPACE PER 305 S.F. OF TOTAL GROSS FLOOR AREA

WAL-MART: 155,094 S.F. / 305 S.F. = 508 SPACES REQUIRED
RETAIL: 13,500 S.F. / 305 S.F. = 44 SPACES REQUIRED
TOTAL: 168,594 S.F. / 305 S.F. = 552 SPACES REQUIRED

CITY OF ALACHUA MAXIMUM PARKING ALLOWED PER LDR:
25% INCREASE OVER REQUIRED

WAL-MART: 508 SPACES REQ'D X 1.25 = 635 SPACES MAX.
RETAIL: 44 SPACES REQ'D X 1.25 = 55 SPACES MAX.
TOTAL: 690 SPACES MAX.

PROPOSED PARKING PROVIDED:

WAL-MART: 635 SP. (28 SP. FOR CARTS EXCLUDED)
RETAIL: 42 SP.
TOTAL: 677 SP.

WALMART PARKING RATIO = 4.10 SPACES PER 1,000 S.F.
(28 SP. FOR CARTS EXCLUDED)
OR 1 SPACE PER 244 S.F. BUILDING AREA
BASED ON GROSS FLOOR AREA OF 155,094 S.F.

ADA PARKING:

REQUIRED:
501 TO 1,000 SPACES PROVIDED = 2% OF TOTAL

PROVIDED:
635 SPACES X 2% = 13 SPACES REQUIRED

WAL-MART REQUIREMENT:
2% + 2 ADDITIONAL SPACES OF REGULAR PARKING PROVIDED
FOR MEDIAN AGE LESS THAN 40 YEARS.

MEDIAN AGE: 37.1 YEARS
REQUIRED: 15 SPACES
PROVIDED: 18 SPACES

PARK & RIDE TRACT:

PROPOSED TOTAL PARKING PROVIDED: 41 SP.

BICYCLE PARKING REQUIRED:
1 SPACE PER 1,000 SF OF BUILDING AREA
155,094 SF / 1,000 SF = 155 SP.
PROVIDED: 156 SP. ON-SITE

SELLER PROPOSED TRACT 1
31.59 AC.±

SELLER PROPOSED TRACT 2
5.16 AC.±

SELLER PROPOSED TRACT 3
7.37 AC.±

OUT PARCEL 1
1.07 AC.±

SELLER PROPOSED TRACT 4
8.00 AC.±

REFER TO SHEETS C-9 THROUGH C-9Q FOR SELLER RD. 1, SELLER RD. 2, ENTRANCE RD. & 151ST BLVD. PROPOSED ROADWAY DESIGN & SPECIFICATIONS.

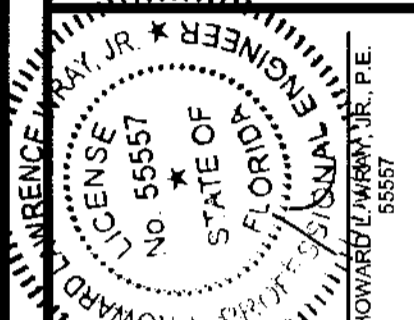
REFER TO SHEETS C-10 THROUGH C-10Q FOR PROPOSED U.S. HWY. 441 ROADWAY IMPROVEMENTS



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Eng. C.O.A. No. 3215
Survey L.B. No. 7143
Arch. Lic. No. AA2600926
Landscape Lic. No. LC0000298
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Designed by:	Drawn by:	Checked by:	Approved by:	Date:	Job No.:	File:
J.B./J.K.B.	J.K.B.	C.D.P.	H.L.W.	8/6/09	WT33392.1	w13392.1 - C-6A SPP.dwg

City:	City Submittal:	Revision:
ALACHUA		

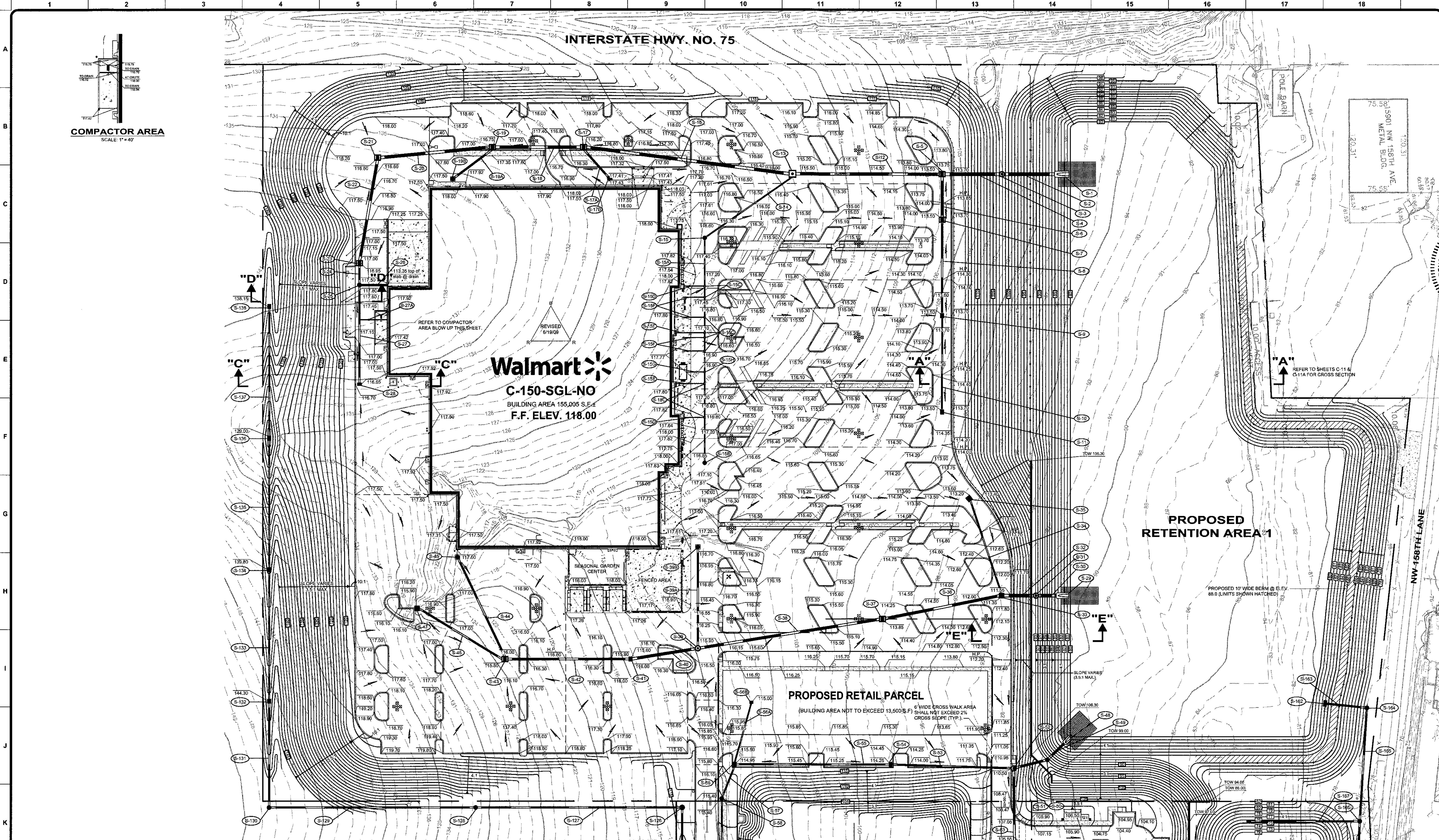
City:	City Submittal:	Revision:
ALACHUA		

City:	City Submittal:	Revision:
ALACHUA		

STORE NO. 3873-00, ALACHUA (SEC I-75 HWY 441), FLORIDA

SITE DIMENSION PLAN

Sheet No.
C-6B



COMPACTOR AREA
SCALE: 1" = 40'

Walmart
C-150-SGL-NO
BUILDING AREA 155,005 S.F.
F.F. ELEV. 118.00

PROPOSED RETAIL PARCEL
(BUILDING AREA NOT TO EXCEED 13,500 S.F.)
6' WIDE CROSS WALK AREA SHALL NOT EXCEED 2% CROSS SLOPE (7:1)

PROPOSED RETENTION AREA 1

PROPOSED STORM SYSTEM NOTES:

1. ALL PIPES IN LEGEND SPECIFIED AS "STORM PIPE" SHALL BE SELECTED FROM THOSE LISTED IN THE GENERAL GRADING NOTES, NOTE 12, SHEET C-5.
2. PIPE LENGTHS ASSOCIATED WITH MITERED END SECTIONS DO NOT INCLUDE SEGMENT TO BE INCLUDED UNDER UNIT PRICE FOR M.E.S. (A.K.A. DIMENSION P; F.D.O.T. INDEX NO. 273)
3. ALL STRUCTURE INVERTS SHALL BE CONSTRUCTED PER F.D.O.T. INDEX NO. 201.
4. ALL STRUCTURES WITH TYPE J BOTTOMS SHALL BE CONSTRUCTED PER F.D.O.T. INDEX NO. 200.
5. ALL DRAINAGE STRUCTURES, INCLUDING CLEAN-OUTS, SHALL BE INSTALLED WITH TRAFFIC BEARING GRATES, TOPS, RINGS AND COVERS, ETC. AS APPLICABLE.
6. ALL PROPOSED INLET GRATES SHALL BE RETICULE STEEL.

NOTES:

1. REFER TO SHEET C-5 FOR PROPOSED BUILDING PAD FOUNDATION SUBSURFACE PREPARATION
2. REFER TO SHEET C-5 FOR GENERAL SITE GRADING NOTES.
3. REFER TO SHEETS C-11 & C-11A FOR CROSS SECTIONS.
4. REFER TO SHEETS C-4 THRU C-6 FOR PROPOSED SILT FENCE LOCATIONS & SPECIFICATIONS.
5. THE CONTRACTOR SHALL NOTIFY THE SRWMD OF ANY SINKHOLE DEVELOPMENT WHICH OCCURS IN CLOSE PROXIMITY TO THE LIMITS OF CONSTRUCTION AREA. CONTACT CLAY COARSEY W/ SRWMD @ TEL: 386-362-1061 OR TOLL FREE: 800-226-1066 WITHIN 48 HOURS OF DISCOVERY. REFER TO DETAIL, SHEET C-14 FOR TYPE OF SINK HOLE REPAIR THAT MAY BE NECESSARY IF IMMINENT FAILURE OCCURS.
6. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE Dewatering, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS. REFER TO MASTER SITE SPECIFICATIONS.

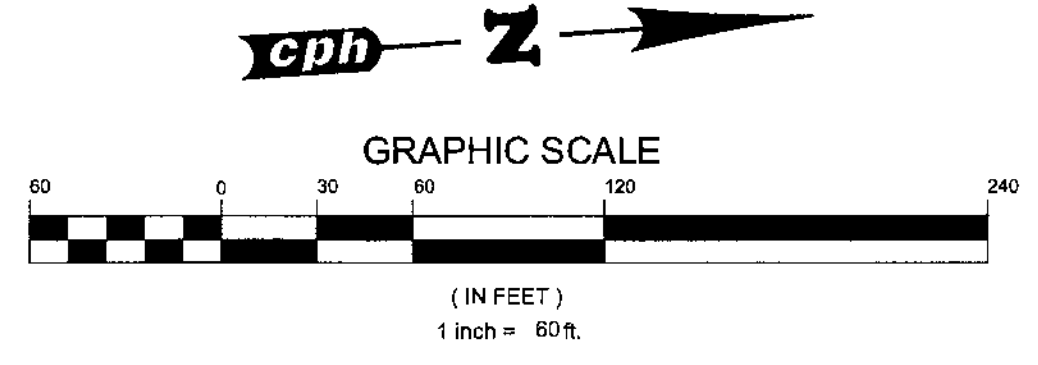
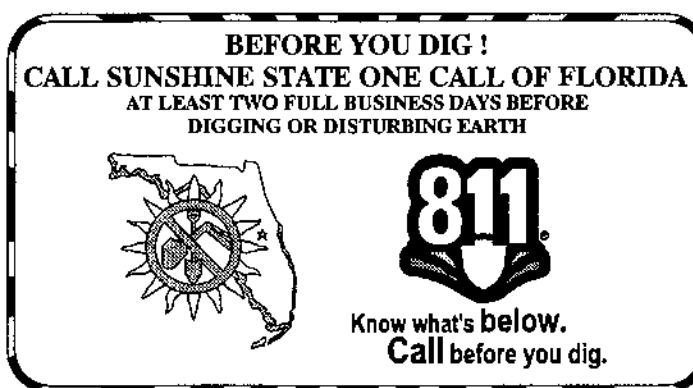
ALERT TO CONTRACTOR:
ALL WM GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS. OUT PARCEL 1 AREA TO BE KEPT FREE OF JOB TRAILERS AND STORAGE AFTER THE CONTRACT MILESTONE DATE FOR THE OUT PARCEL. WM GENERAL CONTRACTOR TO PROVIDE CLEAR ACCESS FOR OUTLOT CONTRACTOR TO THE SPECIFIC PARCEL AT ALL TIMES AFTER MILESTONE DATE. PURCHASER OF OUT PARCEL 1 TO PROVIDE PERMIT DOCUMENTS AND SWPPP REQUIRED BY STATE/LOCAL REQUIREMENTS FOR SPECIFIC OUT PARCEL 1.

FLOOD PLAN

ACCORDING TO THE NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NO. 120654 0025 A, EFFECTIVE DATE FEBRUARY 2, 1996, THIS PROPERTY LIES IN "ZONE X", NOT A SPECIAL FLOOD HAZARD AREA.

PROPOSED LEGEND

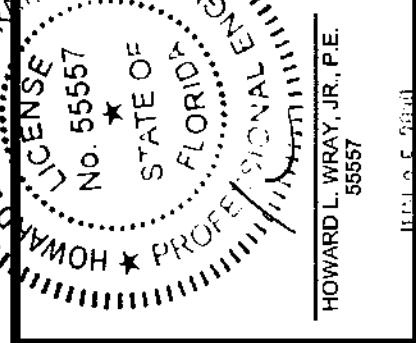
- (T.C.) TOP OF CURB
- (E.P.) EDGE OF PAVEMENT
- PROP. FLOW DIRECTION
- PROP. CONTOUR
- PROP. STORM PIPE



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Eng. C.O.A. No. 3215
Survey L.B. No. 7143
Arch. Lic. No. AA2600926
Landscape Lic. No. LC0000298
12/22/10



Designed by:	Drawn by:	Checked by:	Approved by:	Scale:	Date:	Job No.:	File:	City Submittal:	Per SRWMD Comments:	H.L.W.:	By:	Revision:
J.B./J.K.B.	J.K.B.	C.D.P.	H.L.W.	1" = 60'	8/20/06	WT3392.1	WT3392.1-C7 569' dwg	6/18/10	4/20/08	H.L.W.		

GRADING AND STORM DRAINAGE PLAN

Walmart

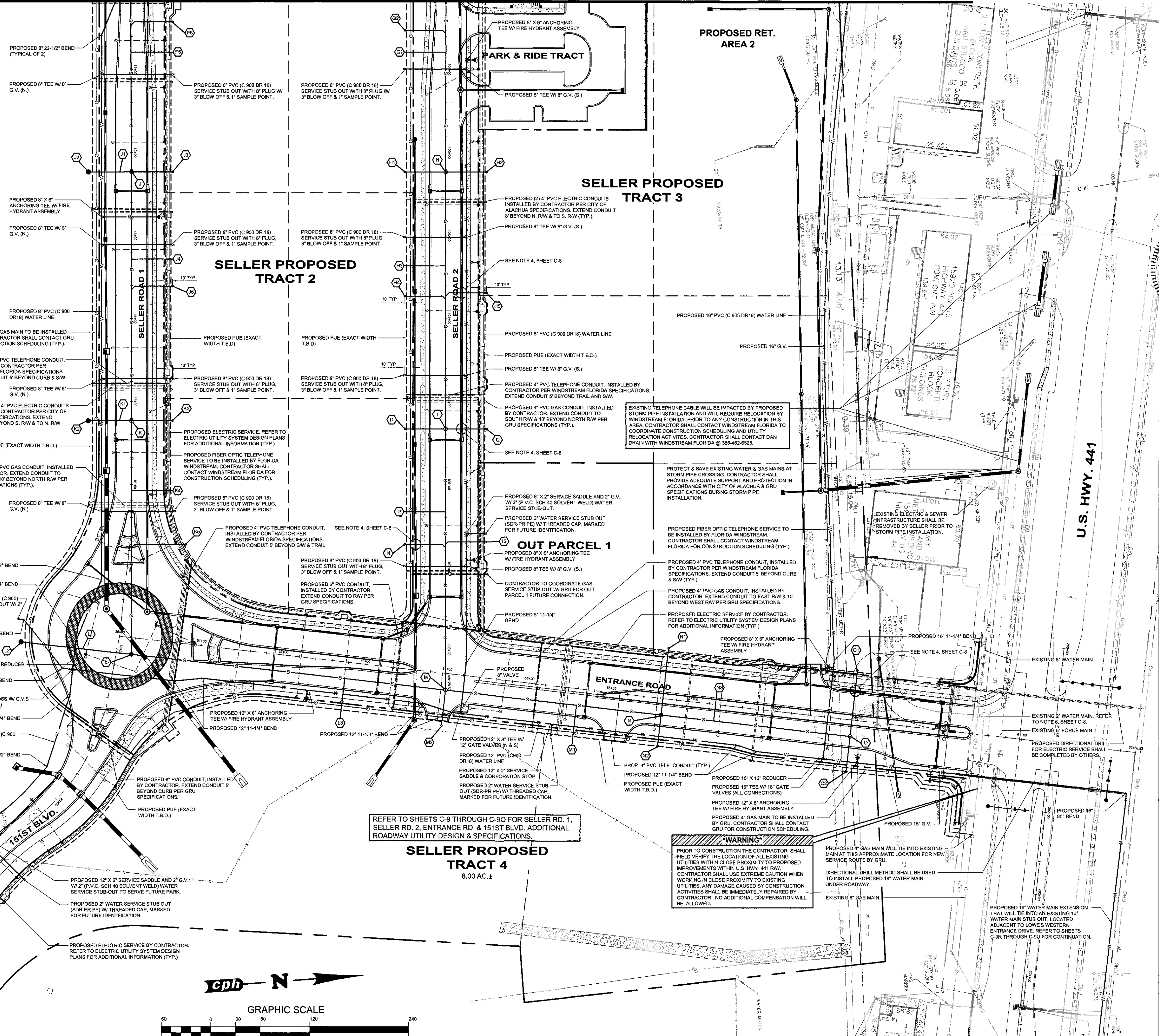
STORE NO. 3873-00, ALACHUA (SEC I-75 HWY 441), FLORIDA

Sheet No. **C-7**

MATCH LINE - REFER TO SHEET C-8

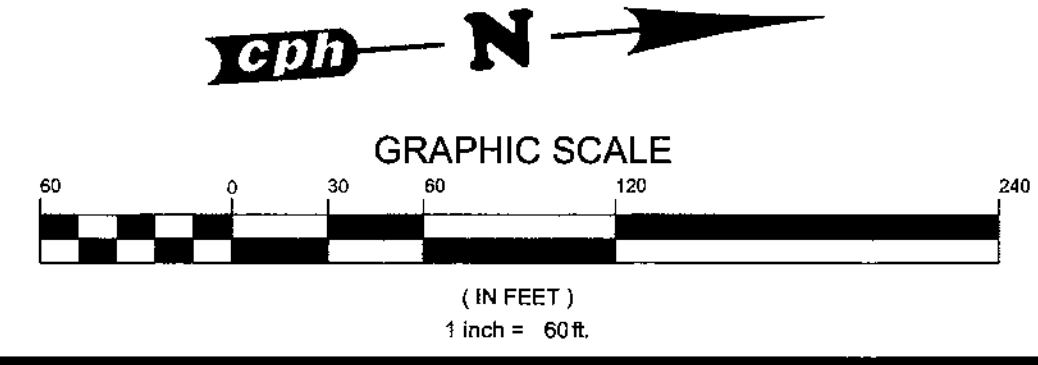
SANITARY SEWER SCHEDULE

- Sanitary sewer manhole details, pipe specifications, and connection points for various tracts and manholes.

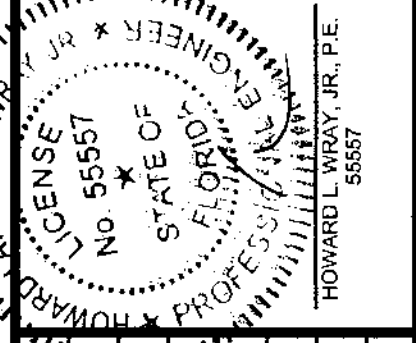


REFER TO SHEETS C-9 THROUGH C-10 FOR SELLER RD. 1, SELLER RD. 2, ENTRANCE RD. & 151ST BLVD. ADDITIONAL ROADWAY UTILITY DESIGN & SPECIFICATIONS.

WARNING: PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES WITHIN CLOSE PROXIMITY TO PROPOSED IMPROVEMENTS WITHIN U.S. HWY. 441 RW. CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EXISTING UTILITIES. ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE IMMEDIATELY REPAIRED BY CONTRACTOR. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.



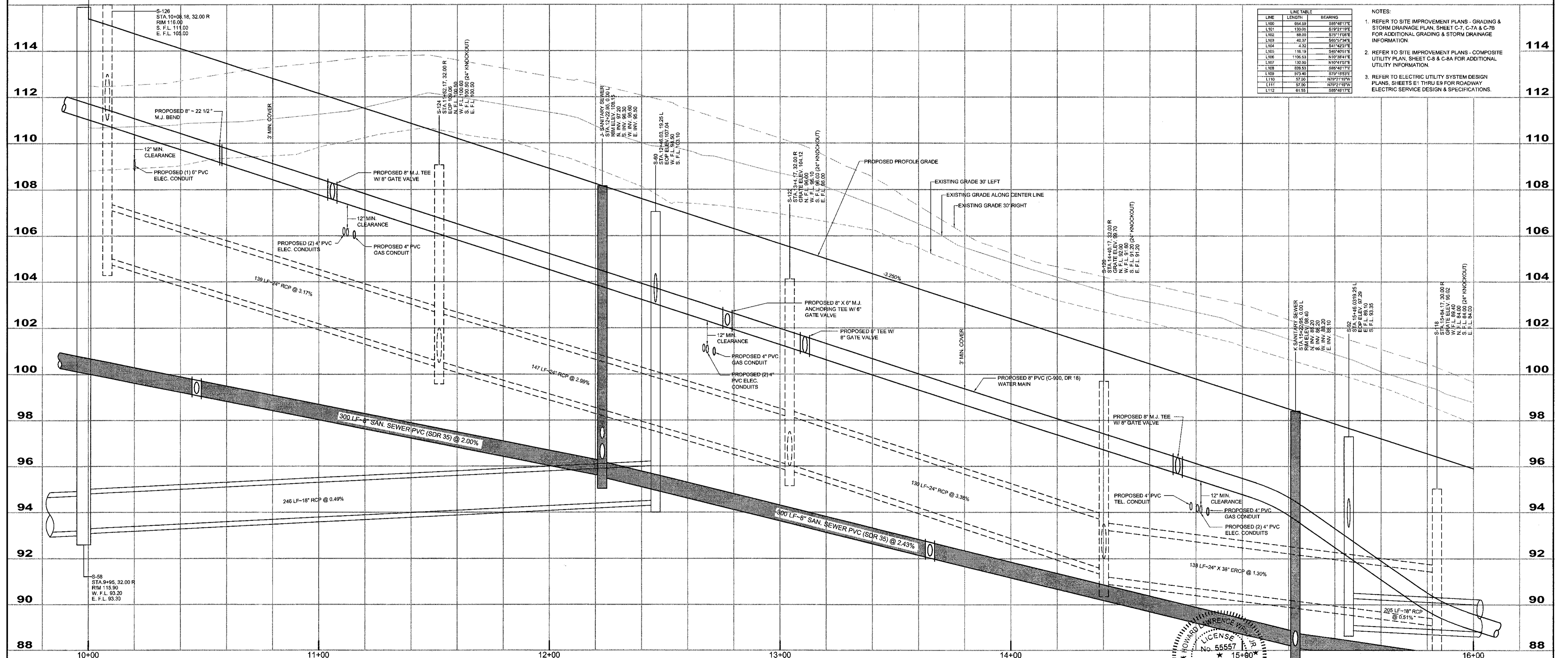
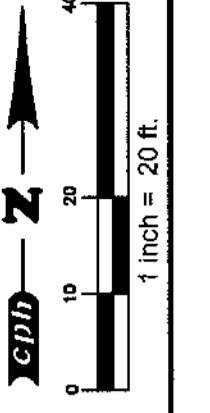
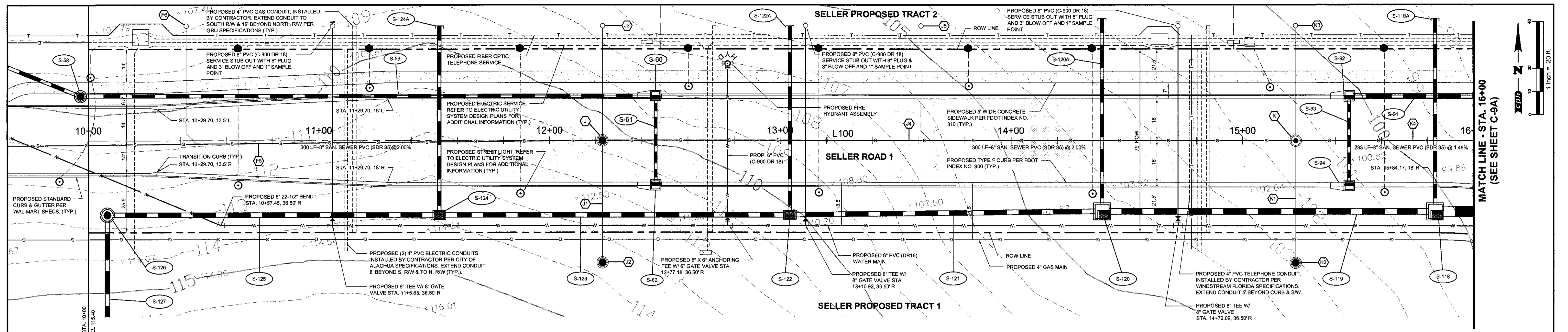
gph logo and contact information for 500 West Fulton Street, Sanford, Florida 32771.



Revision table with columns for Date, Description, and By.

Design and approval table with columns for Designed by, Drawn by, Checked by, Approved by, Date, Job No., and File name.

Walmart logo and project identification: COMPOSITE UTILITY PLAN, STORE NO. 3873-00, ALACHUA (SEC I-75 HWY 441), FLORIDA, Sheet No. C-8A.



LINE	LENGTH	BEARING
L100	654.52	S85°48'17"E
L101	130.00	S72°21'00"E
L102	88.00	S75°11'03"E
L103	40.37	S65°2'38"E
L104	4.30	S41°42'21"E
L105	116.19	S45°40'51"E
L106	1106.53	N10°28'41"E
L107	132.00	N10°11'17"E
L108	238.53	S85°48'17"E
L109	373.48	S70°19'55"E
L110	57.00	N73°21'15"W
L111	37.00	N79°21'18"W
L112	61.55	S85°48'17"E

- NOTES:
- REFER TO SITE IMPROVEMENT PLANS - GRADING & STORM DRAINAGE PLAN, SHEET C-7, C-7A & C-7B FOR ADDITIONAL GRADING & STORM DRAINAGE INFORMATION.
 - REFER TO SITE IMPROVEMENT PLANS - COMPOSITE UTILITY PLAN, SHEET C-8 & C-8A FOR ADDITIONAL UTILITY INFORMATION.
 - REFER TO ELECTRIC UTILITY SYSTEM DESIGN PLANS, SHEETS E1 THROUGH E9 FOR ROADWAY ELECTRIC SERVICE DESIGN & SPECIFICATIONS.

No.	Date	Revision	By	Designed by:	Date:
1	6/18/10	CITY SUBMITTAL	H.L.W.	J.K.B.	8/2006
2				D.T.	W13392
3				J.A.B.	PP1
4				H.L.W.	Certificate of Authorization No. 3215

Scale: 1" = 20' (H) - 1" = 2'(V)
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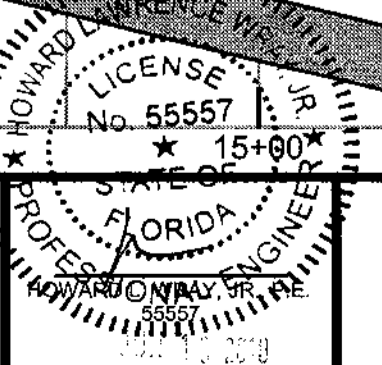


STORE NO. 3873-00, ALACHUA (SEC I-75 HWY 441), FLORIDA



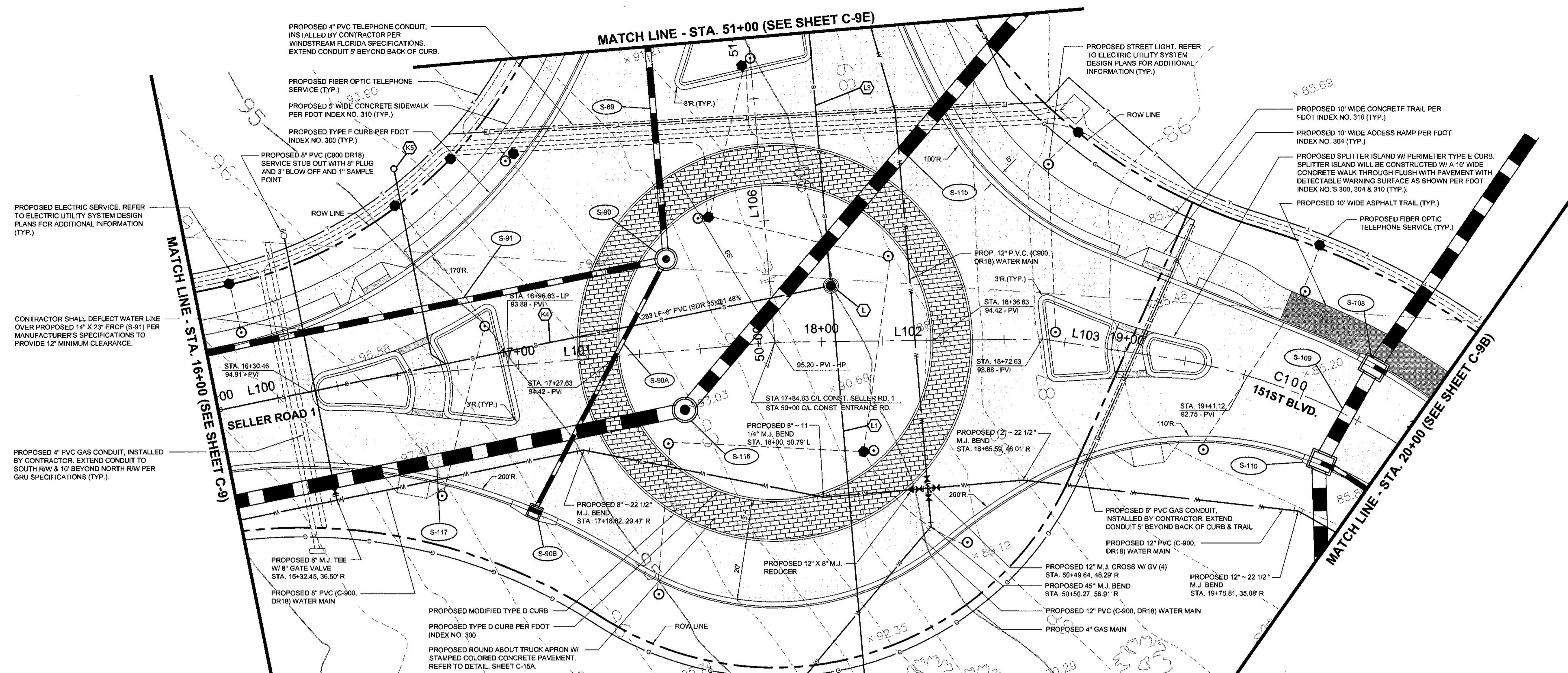
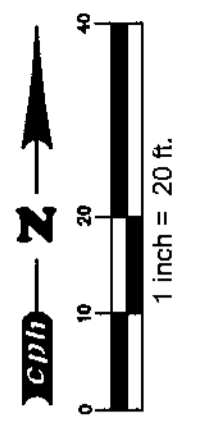
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**SELLER ROAD 1
 PLAN AND PROFILE
 STA. 10+00 TO 16+00**

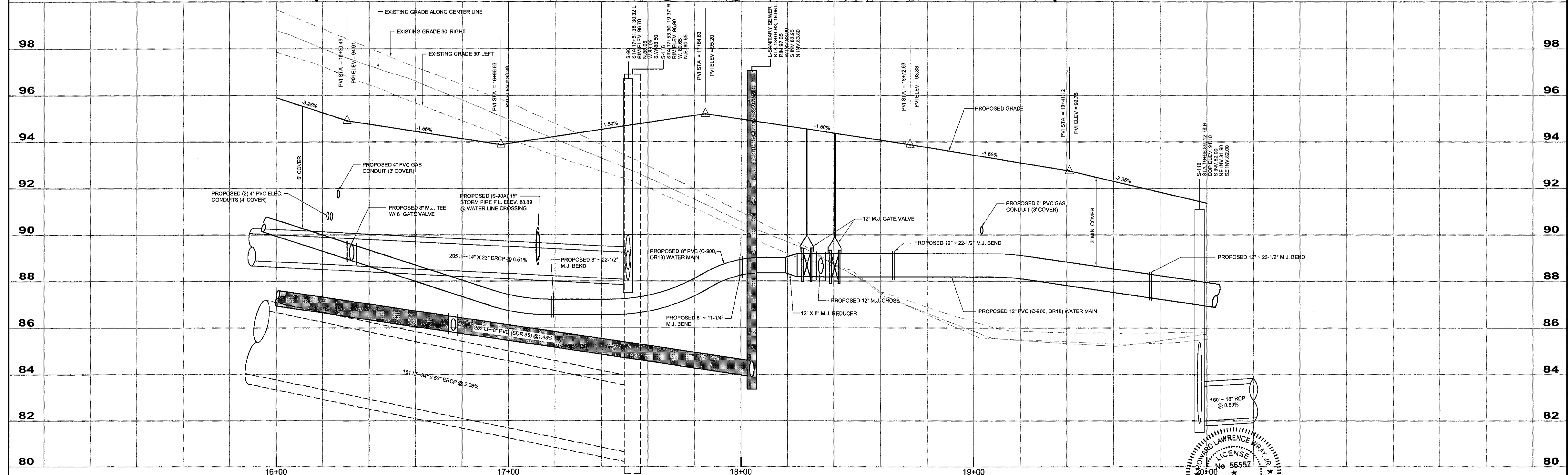
Sheet No.
C-9



LINE	LENGTH	BEARING
L100	64.59	S89°48'17\"/>
L101	133.05	S192°11'52\"/>
L102	81.00	S79°11'08\"/>
L103	40.57	S69°57'34\"/>
L104	4.32	S91°15'27\"/>
L105	115.10	S45°42'21\"/>
L106	110.53	N10°28'41\"/>
L107	132.20	N10°24'10\"/>
L108	628.53	S69°48'17\"/>
L109	872.46	S19°16'33\"/>
L110	57.20	N79°21'19\"/>
L111	57.20	N79°21'19\"/>
L112	81.56	S69°48'17\"/>

CURVE	LENGTH	TAKEOFF	DELTA	TANGENT	CHORD
C100	64.66	200.00	24°19'00\"/>		
C101	49.91	275.00	10°15'54\"/>		
C102	72.52	290.00	14°17'16\"/>		
C103	1345.98	2896.75	26°42'00\"/>		

- NOTES:
- REFER TO SITE IMPROVEMENT PLANS - GRADING & STORM DRAINAGE PLAN, SHEET C-7, C-7A & C-7B FOR ADDITIONAL GRADING & STORM DRAINAGE INFORMATION.
 - REFER TO SITE IMPROVEMENT PLANS - COMPOSITE UTILITY PLAN, SHEET C-8 & C-8A FOR ADDITIONAL UTILITY INFORMATION.
 - REFER TO ELECTRIC UTILITY SYSTEM DESIGN PLANS, SHEETS E-1 THRU E-5 FOR ROADWAY ELECTRIC SERVICE DESIGN & SPECIFICATIONS.



No.	Date	Revision	By	No.	Date	Revision	By
1	6/19/10	CITY SUBMITTAL	HLW				

Designed by: J.K.B. Date: 8/2006
 Drawn by: D.T. Job No. W13392
 Checked by: J.A.B. File: PP2
 Approved by: H.L.W. Certificate of Authorization No. 3215
 Scale: 1" = 20'(H) - 1" = 2'(V) © 2010

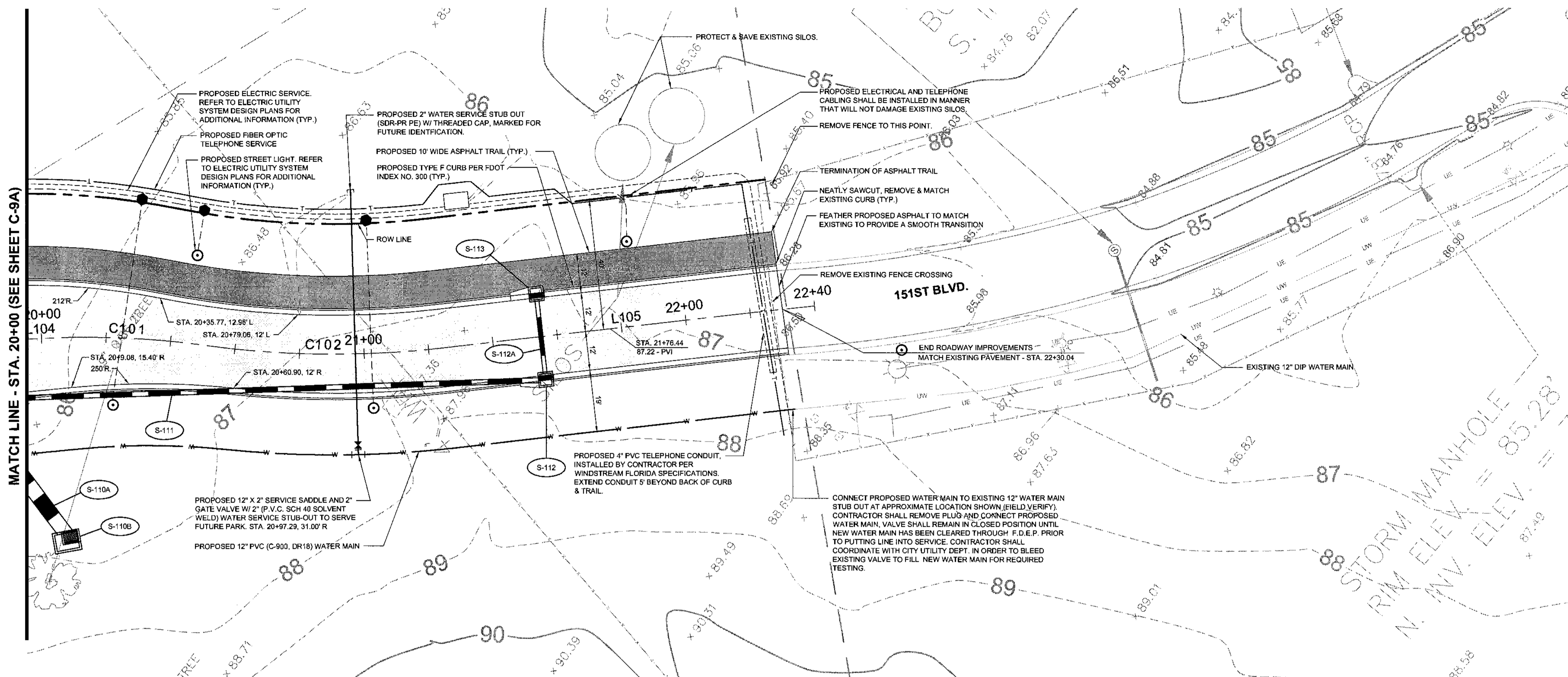
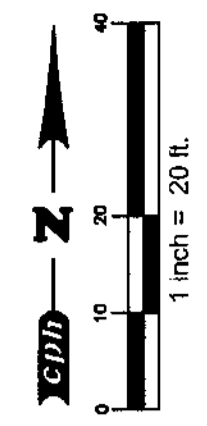
Walmart
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 32772-2068
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SELLER ROAD 1 & 151ST BLVD.
PLAN AND PROFILE
STA. 16+00 TO 20+00

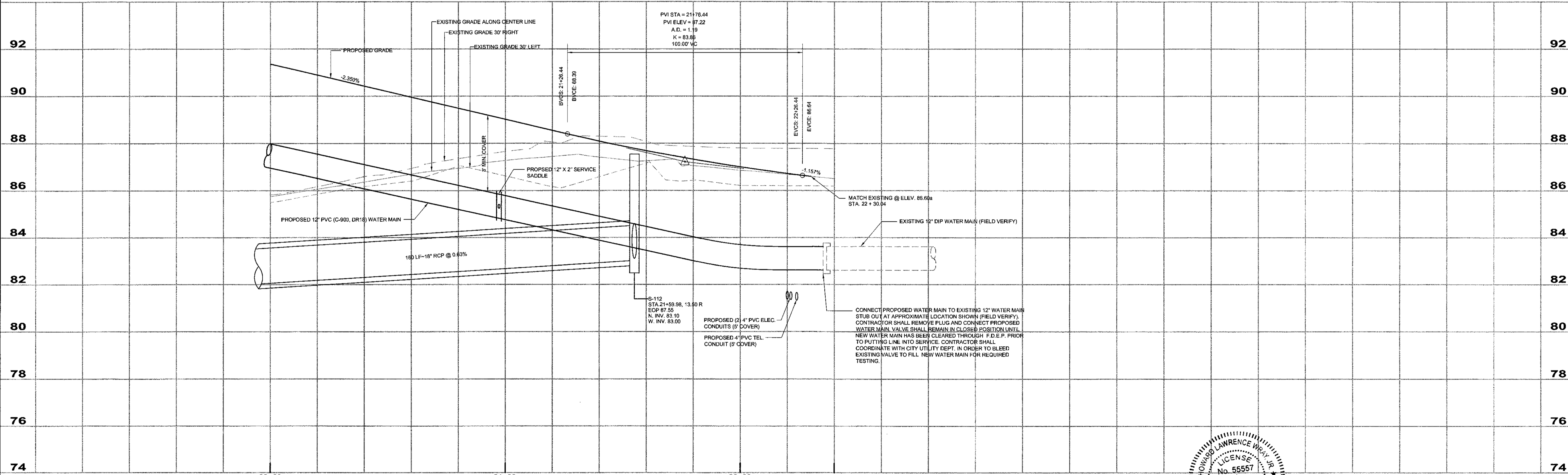
Sheet No. **C-9A**



LINE	LENGTH	BEARING
L100	45.50	S89°41'17"E
L101	132.00	S79°21'10"W
L102	45.00	S13°11'00"W
L103	45.37	S85°53'30"E
L104	4.32	S41°42'27"E
L105	115.10	S45°40'01"E
L106	106.53	N10°38'41"E
L107	132.00	N10°41'30"E
L108	63.53	S10°41'17"E
L109	97.40	S79°18'33"E
L110	57.00	N79°21'10"W
L111	57.00	N13°21'00"W
L112	61.50	S85°42'17"E

CURVE	LENGTH	RADIUS	DELTA	TANGENT	CHORD
C100	45.48	200.00	24°10'07"	42.87	44.68
C101	49.51	275.00	10°18'52"	24.85	48.44
C102	72.32	290.00	14°17'18"	36.35	72.10
C103	130.25	286.75	30°42'00"	69.48	133.78

- NOTES:
- REFER TO SITE IMPROVEMENT PLANS - GRADING & STORM DRAINAGE PLAN, SHEET C-7, C-7A & C-7B FOR ADDITIONAL GRADING & STORM DRAINAGE INFORMATION.
 - REFER TO SITE IMPROVEMENT PLANS - COMPOSITE UTILITY PLAN, SHEET C-8 & C-8A FOR ADDITIONAL UTILITY INFORMATION.
 - REFER TO ELECTRIC UTILITY SYSTEM DESIGN PLANS, SHEETS E1 THRU E9 FOR ROADWAY ELECTRIC SERVICE DESIGN & SPECIFICATIONS.



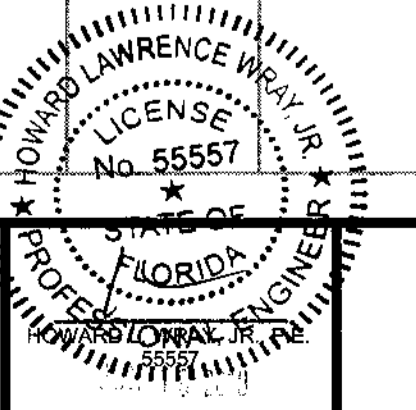
No.	Date	Revision	By	No.	Date	Revision	By
1	6/19/10	CITY SUBMITAL	HLW	2			

Designed by:	J.K.B.	Date:	8/2006
Drawn by:	D.T.	Job No.:	W13392
Checked by:	J.A.B.	File:	PP3
Approved by:	H.L.W.	Certificate of Authorization No.:	3215
Scale:	1" = 20'(H) - 1" = 2'(V)	©	2010



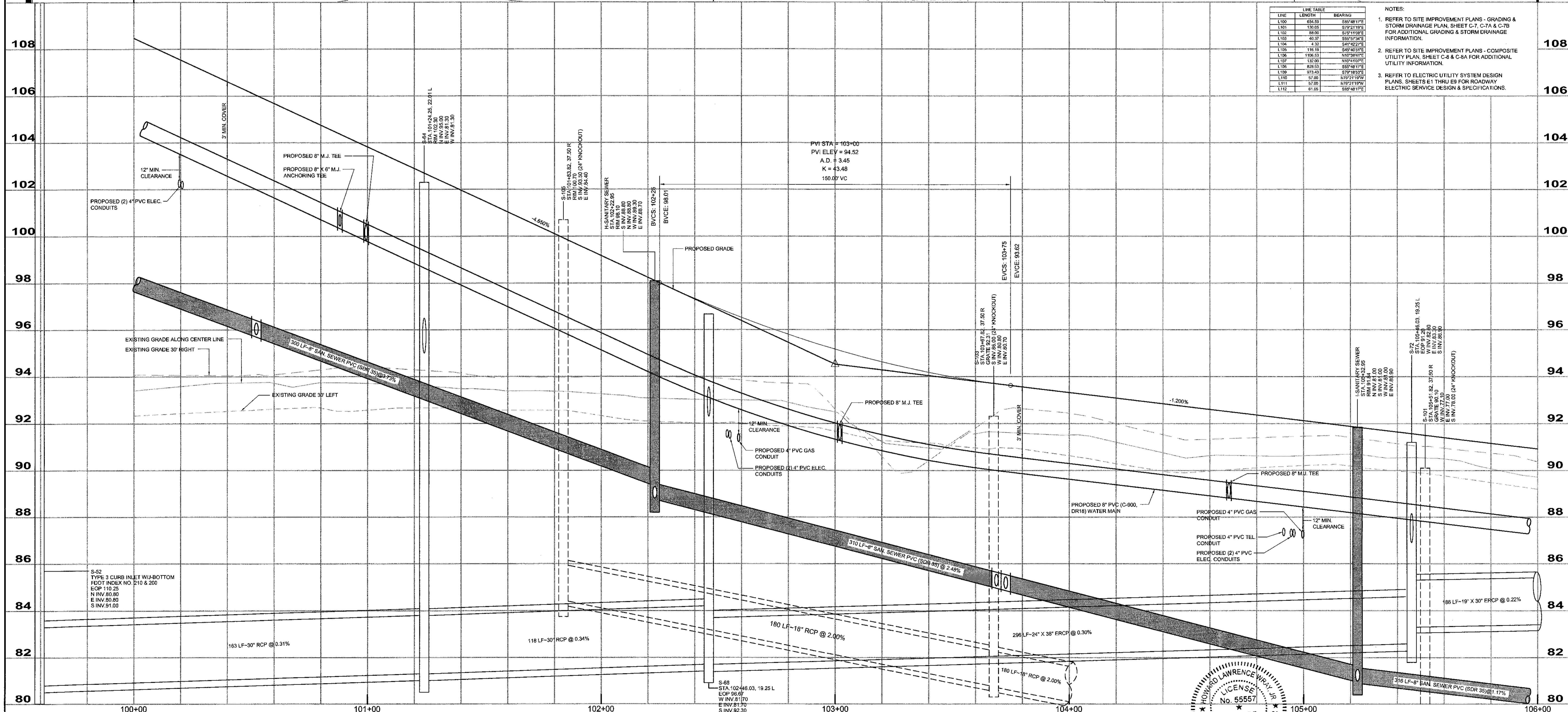
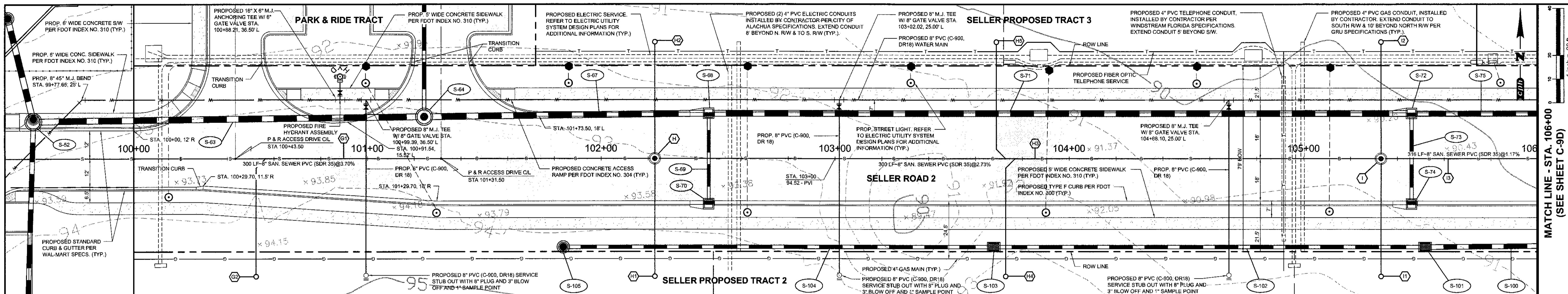
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151ST BLVD.
PLAN AND PROFILE
STA. 20+00 TO 22+40

Sheet No.
C-9B



LINE TABLE

LINE	LENGTH	BEARING
L100	654.89	S82°48'17"E
L101	130.00	S72°21'36"E
L102	88.00	S72°11'20"E
L103	46.37	S52°57'34"E
L104	4.32	S41°42'12"E
L105	116.19	S42°40'31"E
L106	1006.33	N10°30'17"E
L107	132.00	N10°41'07"E
L108	828.53	S52°48'17"E
L109	974.43	S72°48'48"E
L110	57.00	N72°31'29"W
L111	57.00	N72°31'29"W
L112	61.65	S52°48'17"E

NOTES:

- REFER TO SITE IMPROVEMENT PLANS - GRADING & STORM DRAINAGE PLAN, SHEET C-7, C-7A & C-7B FOR ADDITIONAL GRADING & STORM DRAINAGE INFORMATION.
- REFER TO SITE IMPROVEMENT PLANS - COMPOSITE UTILITY PLAN, SHEET C-8 & C-8A FOR ADDITIONAL UTILITY INFORMATION.
- REFER TO ELECTRIC UTILITY SYSTEM DESIGN PLANS, SHEETS E1 THRU E9 FOR ROADWAY ELECTRIC SERVICE DESIGN & SPECIFICATIONS.

No.	Date	Revision	By	No.	Date	Revision	By	Designed by:	J.K.B.	Date:	8/2006
1	6/18/10	CITY SUBMITTAL	H.L.W.					Drawn by:	D.T.	Job No.:	W13392
								Checked by:	J.A.B.	File:	PP6
								Approved by:	H.L.W.	Certificate of Authorization No.:	3215
								Scale:	1" = 20'(H) - 1" = 2'(V)	©	2010

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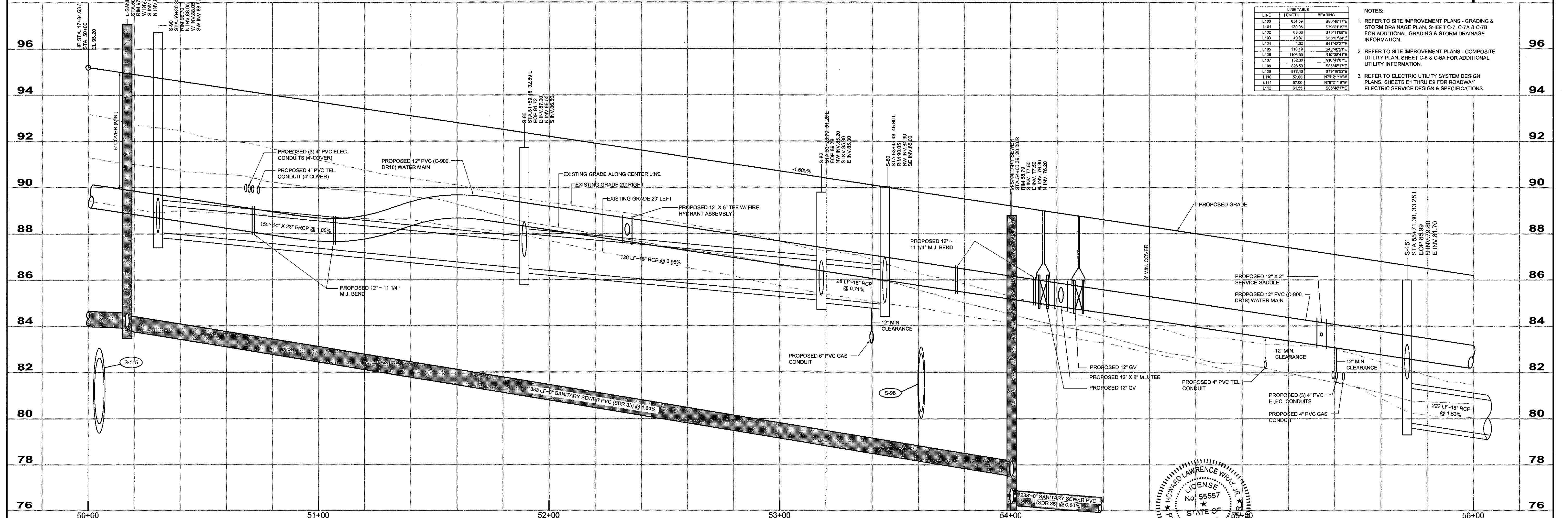
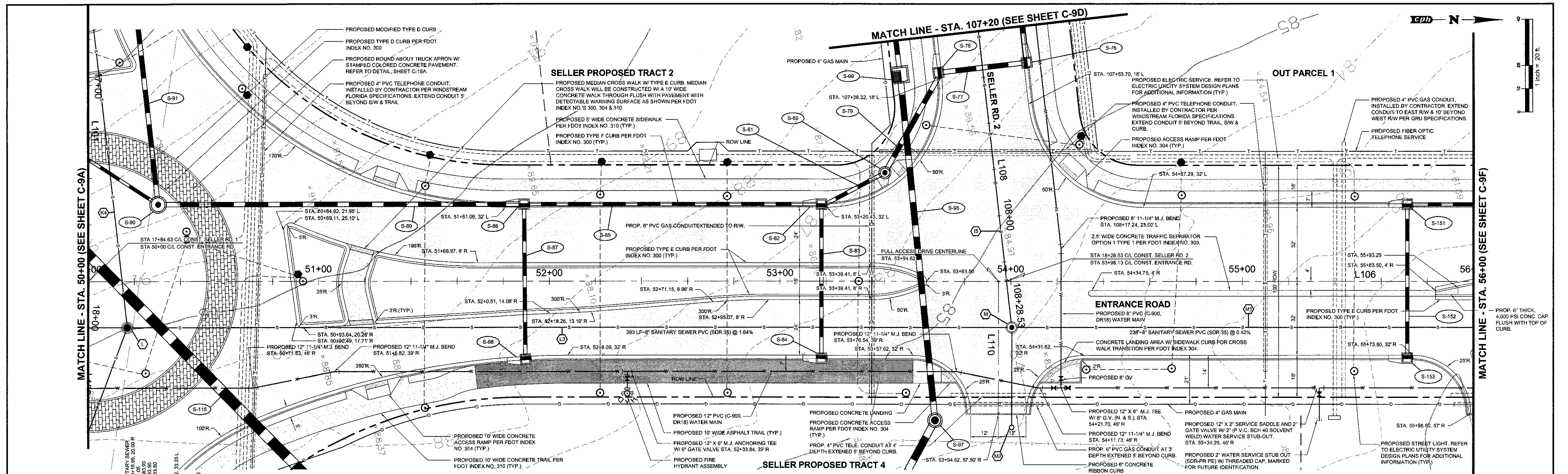
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32772-2808
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FLORIDA
LICENSE
No. 55557
Professional Engineer
HOWARD LAWRENCE WILSON, JR.
STATE OF FLORIDA

Sheet No.
C-9C

**SELLER ROAD 2
PLAN AND PROFILE
STA. 100+00 TO 106+00**



LINE	LENGTH	BEARING
L100	654.29	S89°41'17"E
L101	130.25	S72°21'15"E
L102	88.00	S72°11'08"E
L103	49.37	S82°52'25"E
L104	4.30	S44°42'27"E
L105	116.19	S47°42'37"E
L106	116.03	N10°38'44"E
L107	132.00	N10°41'07"E
L108	629.53	S89°40'17"E
L109	97.40	S72°12'32"E
L110	57.20	N78°21'16"W
L111	57.20	N72°11'16"W
L112	41.95	S82°40'17"E

- NOTES:
- REFER TO SITE IMPROVEMENT PLANS - GRADING & STORM DRAINAGE PLAN, SHEET C-7, C-7A & C-7B FOR ADDITIONAL GRADING & STORM DRAINAGE INFORMATION.
 - REFER TO SITE IMPROVEMENT PLANS - COMPOSITE UTILITY PLAN, SHEET C-8 & C-8A FOR ADDITIONAL UTILITY INFORMATION.
 - REFER TO ELECTRIC UTILITY SYSTEM DESIGN PLANS, SHEETS E1 THRU E5 FOR ROADWAY ELECTRIC SERVICE DESIGN & SPECIFICATIONS.

No.	Date	Revision	By	Designed by:	Date:
1	8/19/10	CITY SUBMITTAL	HLW	J.K.B.	8/2006
2				D.T.	W13392
3				J.A.B.	PP4
4				H.L.W.	Certificate of Authorization No. 3215
5					Scale: 1" = 20'(H) - 1" = 2'(V)

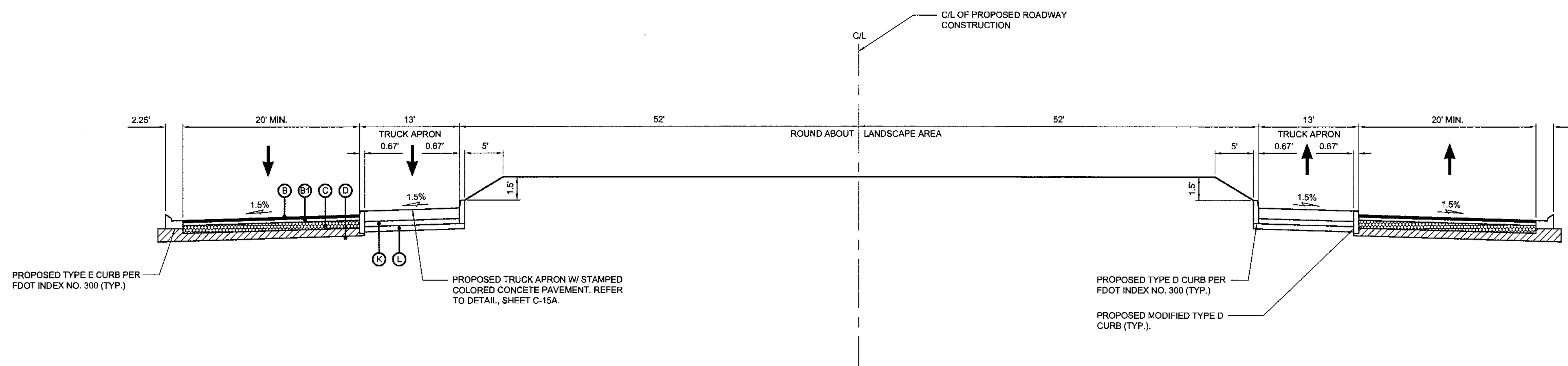
STORE NO. 3873-00, ALACHUA (SEC I-75 HWY 441), FLORIDA

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Architects
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Landscape Architects
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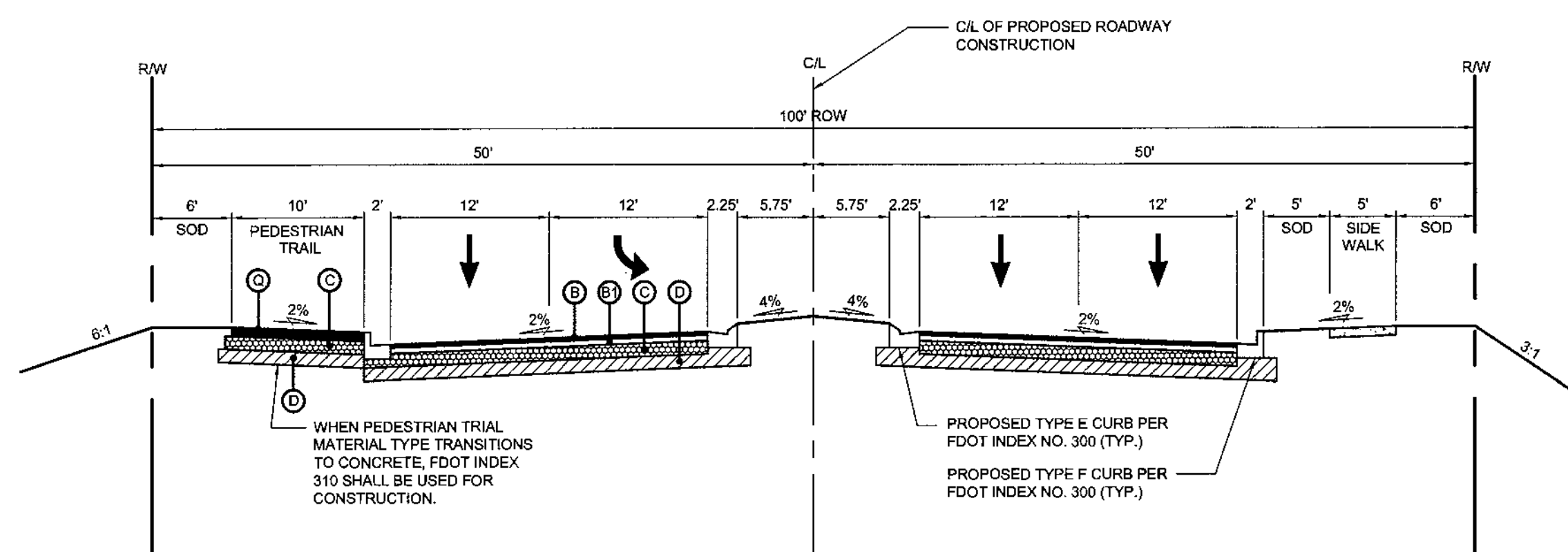
500 West Fulton Street
Sanford, FL 32777
P.O. Box 2808
32772-2808
Phone: 407.332.6841
Fax: 407.330.0639

ENTRANCE ROAD
PLAN AND PROFILE
STA. 50+00 TO 56+00

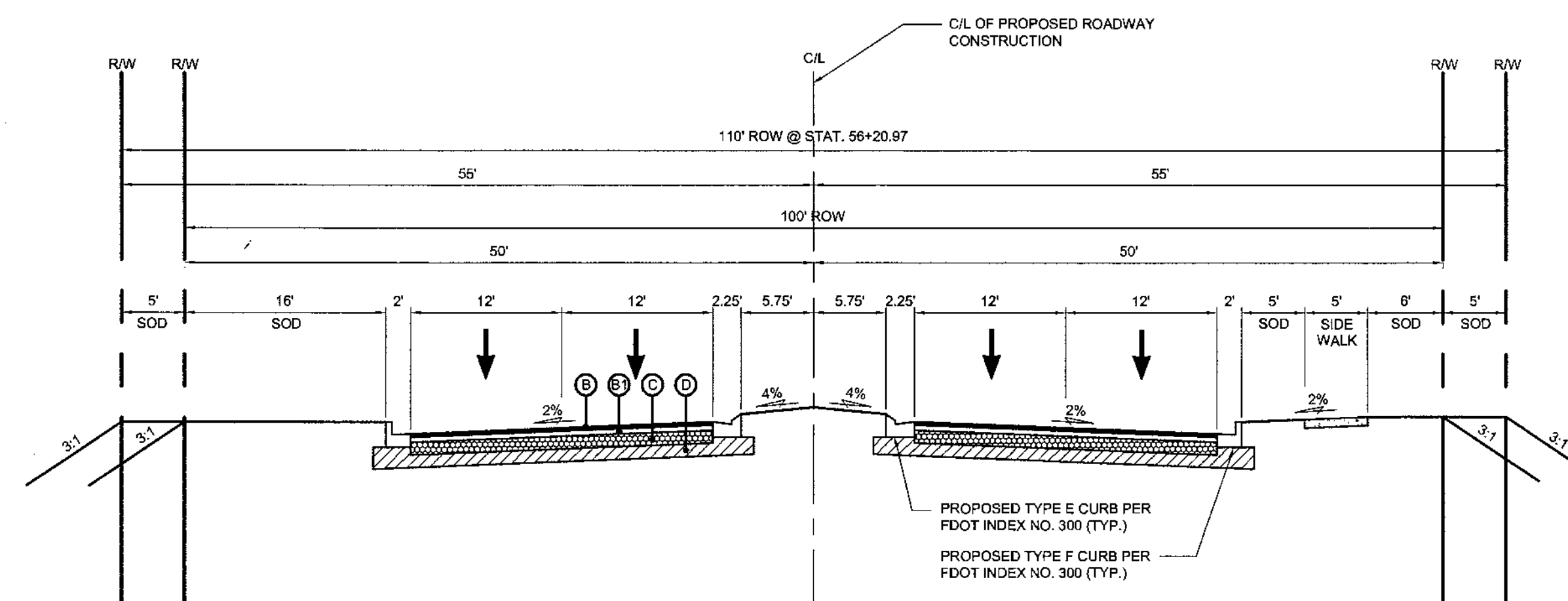
Sheet No.
C-9E



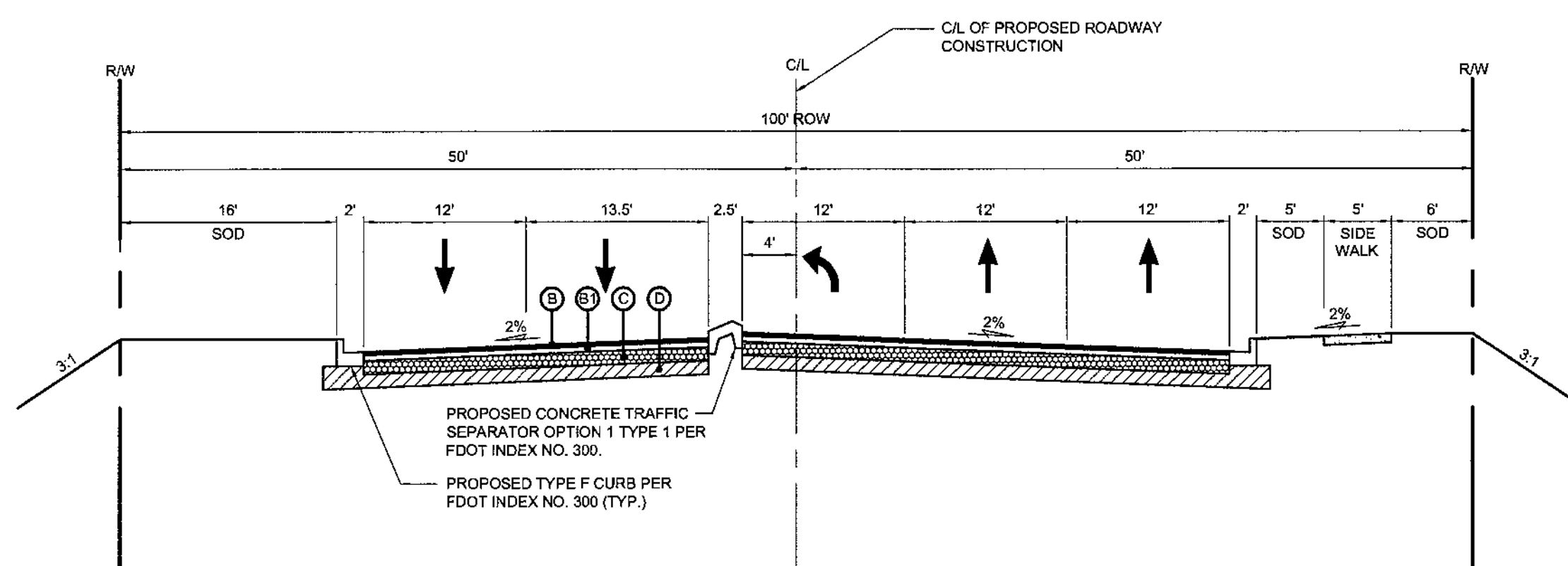
STATION 50+00



STATION 52+95.07 TO STATION 53+20.43



STATION 56+47.80 TO STATION 59+20.97

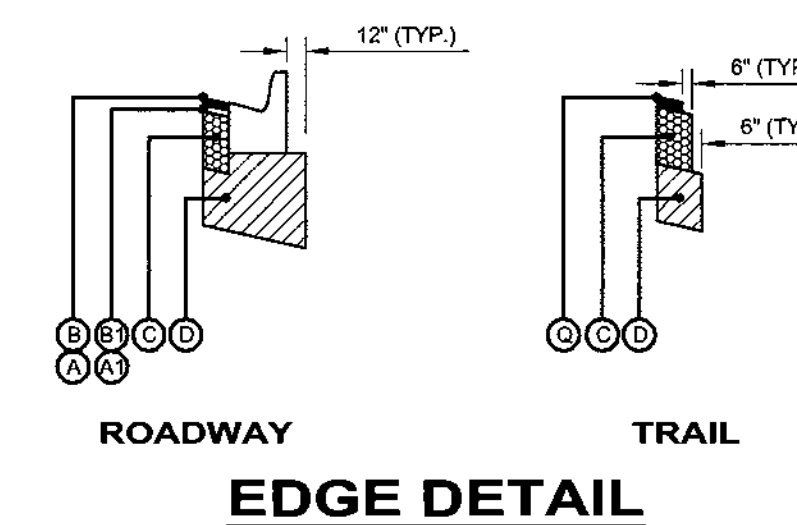


STATION 54+57.29 TO 55+73.80

PAVEMENT MATERIALS LEGEND

- (A) 1" ASPHALT WEARING SURFACE, TYPE S-III (MAX. 25% LABORATORY MARSHAL DENSITY RECYCLE) WITH A 98% (MIX TO BE APPROVED BY SOIL ENGINEER) PER THE CURRENT FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- (A1) 2" ASPHALT STRUCTURAL COARSE, TYPE S-I (MAX. 50% RECYCLE) WITH A 98% LABORATORY MARSHAL DENSITY (MIX TO BE APPROVED BY SOIL ENGINEER) PER THE CURRENT FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- (B) 1 1/2" ASPHALT WEARING SURFACE, TYPE S-III (MAX. 25% RECYCLE) WITH A 98% LABORATORY MARSHAL DENSITY (MIX TO BE APPROVED BY SOIL ENGINEER) PER THE CURRENT FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- (B1) 2 1/2" ASPHALT STRUCTURAL COARSE, TYPE S-I (MAX. 50% RECYCLE) WITH A 98% LABORATORY MARSHAL DENSITY (MIX TO BE APPROVED BY SOIL ENGINEER) PER THE CURRENT FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- (C) 6" MINIMUM LIMEROCK BASE COURSE WITH A 98% MODIFIED PROCTOR TEST MAXIMUM DRY DENSITY AND A LIMEROCK BEARING RATIO (LBR) OF AT LEAST 100 COMPLYING WITH THE REQUIREMENTS OF SECTION 911 AND SECTION 200 OF THE CURRENT FDOT STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION.
- (D) 6" MINIMUM STABILIZED SUBGRADE MATERIAL WITH A 98% MODIFIED PROCTOR TEST MAXIMUM DRY DENSITY (ASTM D 1557, AASHTO T 180) AND A LIMEROCK BEARING RATION (LBR) OF 40 AS SPECIFIED BY FDOT REQUIREMENTS FOR TYPE B STABILIZED SUBGRADE.
- (K) THE BASE COURSE SHOULD BE A MINIMUM OF 4" THICK AND THE BASE MATERIAL SHOULD BE FREE DRAINING AND HAVE A MINIMUM LBR OF 100. THE BASE MATERIAL MUST BE DENSIFIED TO AT LEAST 98% OF MODIFIED PROCTOR TEST MAXIMUM DRY DENSITY (ASTM D 1557, AASHTO T 180).
- (L) THE STABILIZED SUBGRADE MATERIAL SHOULD BE A MINIMUM OF 4" THICK, SHOULD BE FREE DRAINING AND HAVE A MINIMUM LBR VALUE OF 40. THE STABILIZED SUBGRADE MATERIAL MUST BE DENSIFIED TO AT LEAST 98% OF MODIFIED PROCTOR TEST MAXIMUM DRY DENSITY (ASTM D 1557, AASHTO T 180).
- (O) 1 1/2" ASPHALT TYPE S-III

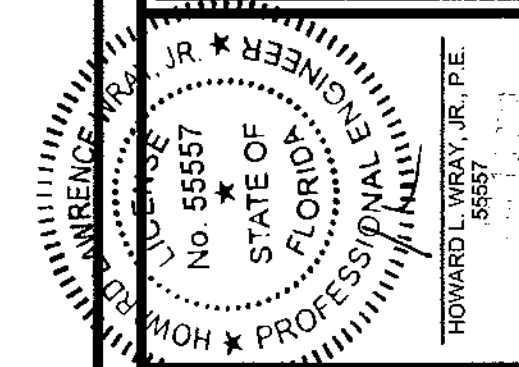
NOTE:
ALL CONCRETE USED FOR CURBS AND SIDEWALK CONSTRUCTION SHALL BE 2,500 PSI.



gph
500 West Fulton Street
Sanford, Florida 32771
P. O. Box 2808
Sanford, Florida 32772-2808
Phone 407 322-6841
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Eng. C.O.A. No. 3215
Survey L.B. No. 7143
Arch. Lic. No. AA2600926
Landscape Lic. No. LC0000298
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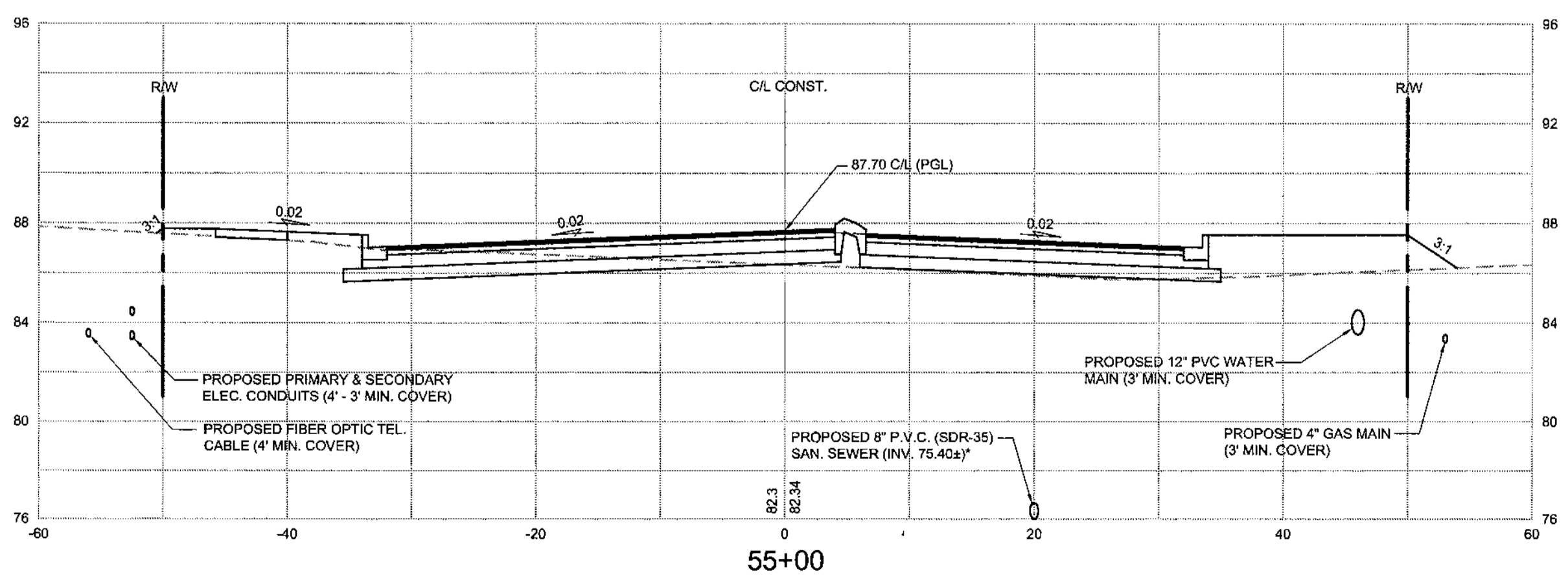
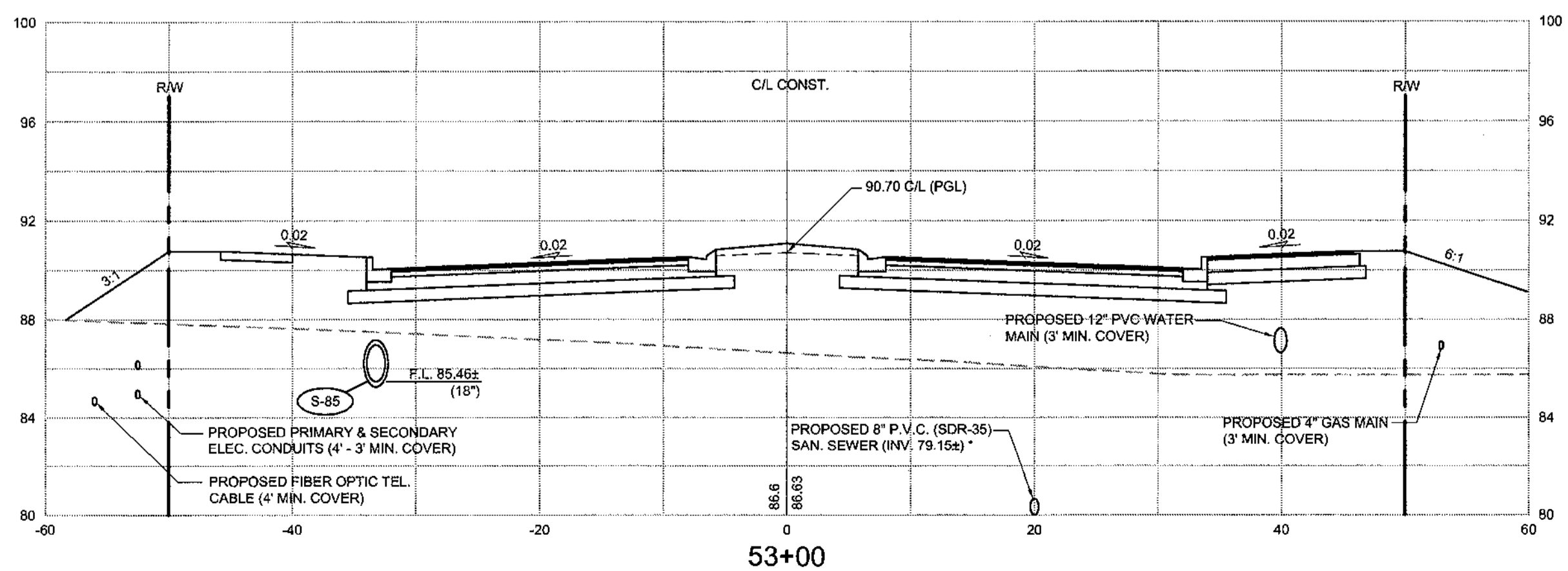
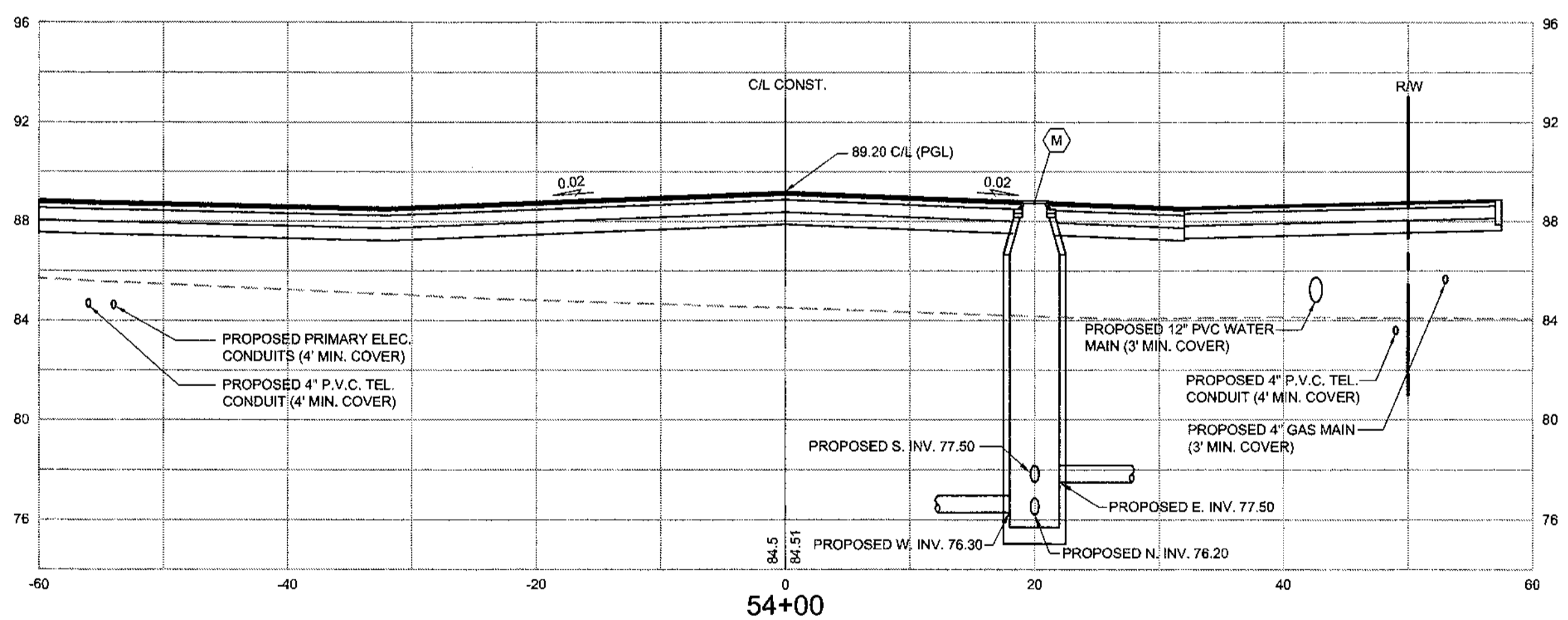
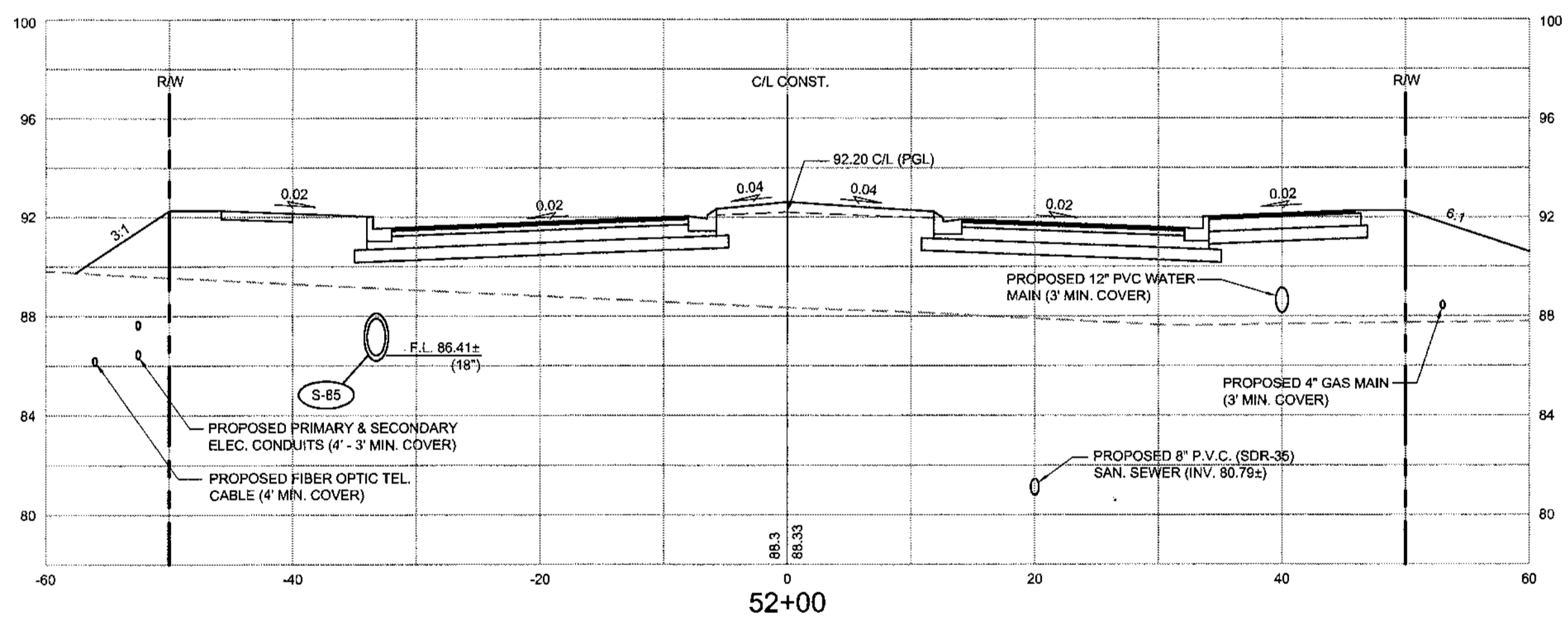
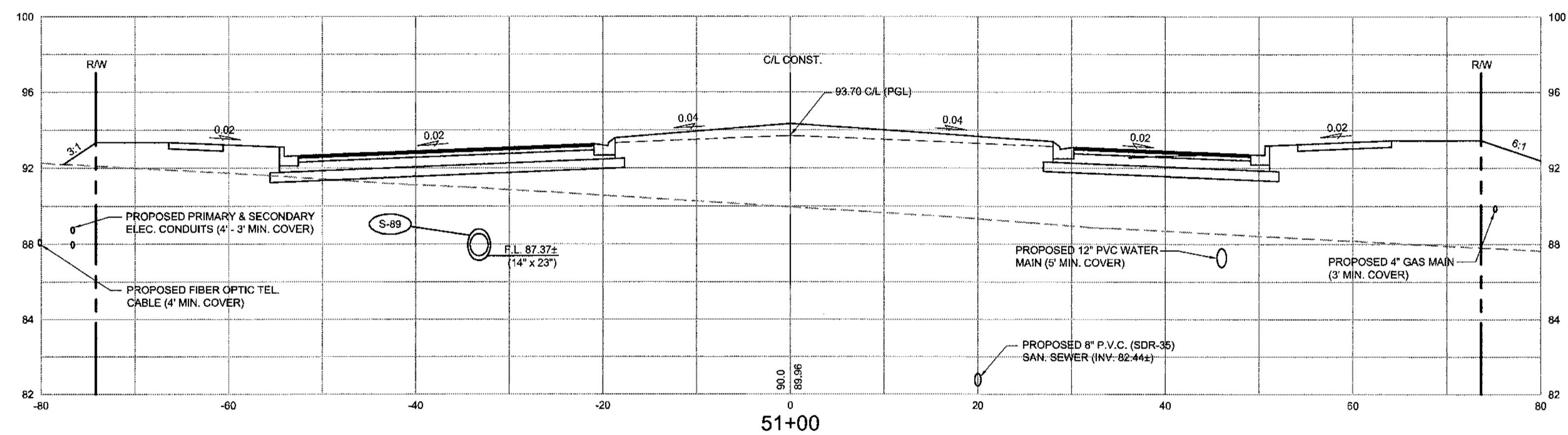
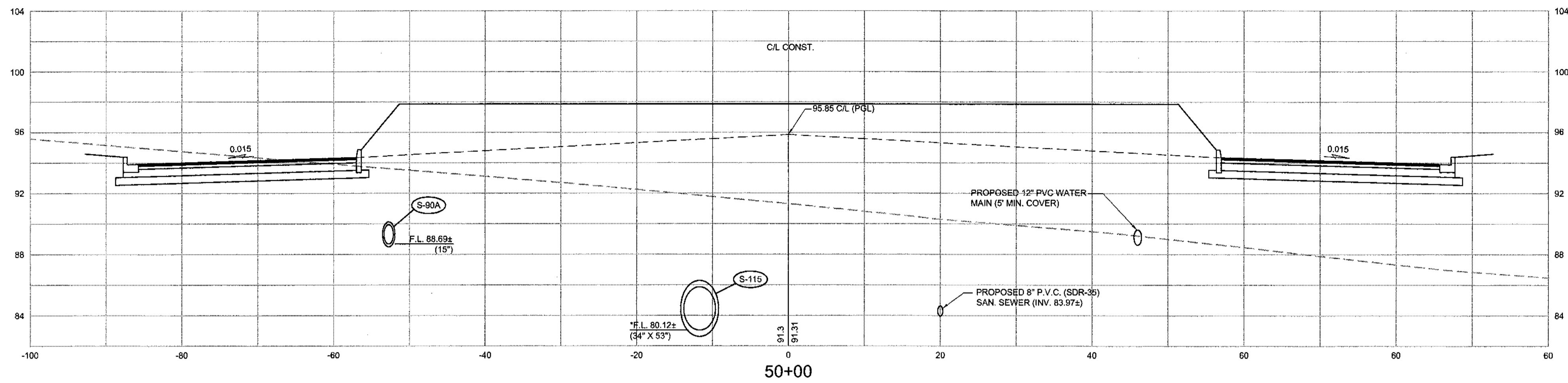


Designed by:	J.K.B.	No.	
Drawn by:	C.D.P.	No.	
Checked by:	J.A.B.	No.	
Approved by:	H.L.W.	No.	
Scale:	1"=10' (h) 1"=5' (V)	No.	
Date:	8/6/09	No.	
Job No.:	W13392.1	No.	
File:	Typ Rd Xsect	No.	

ENTRANCE ROAD
TYPICAL ROADWAY CROSS SECTIONS

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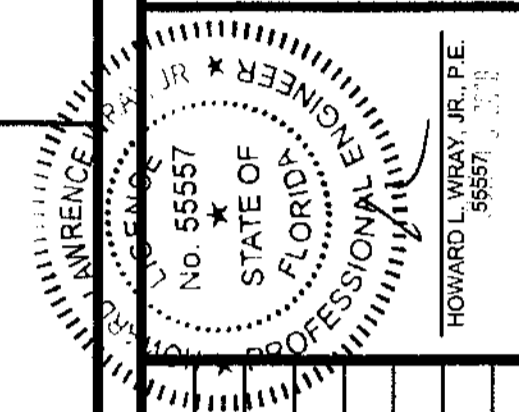
NOTE: *F.L. XX.XX = VERTICAL LOCATION NOT TO SCALE



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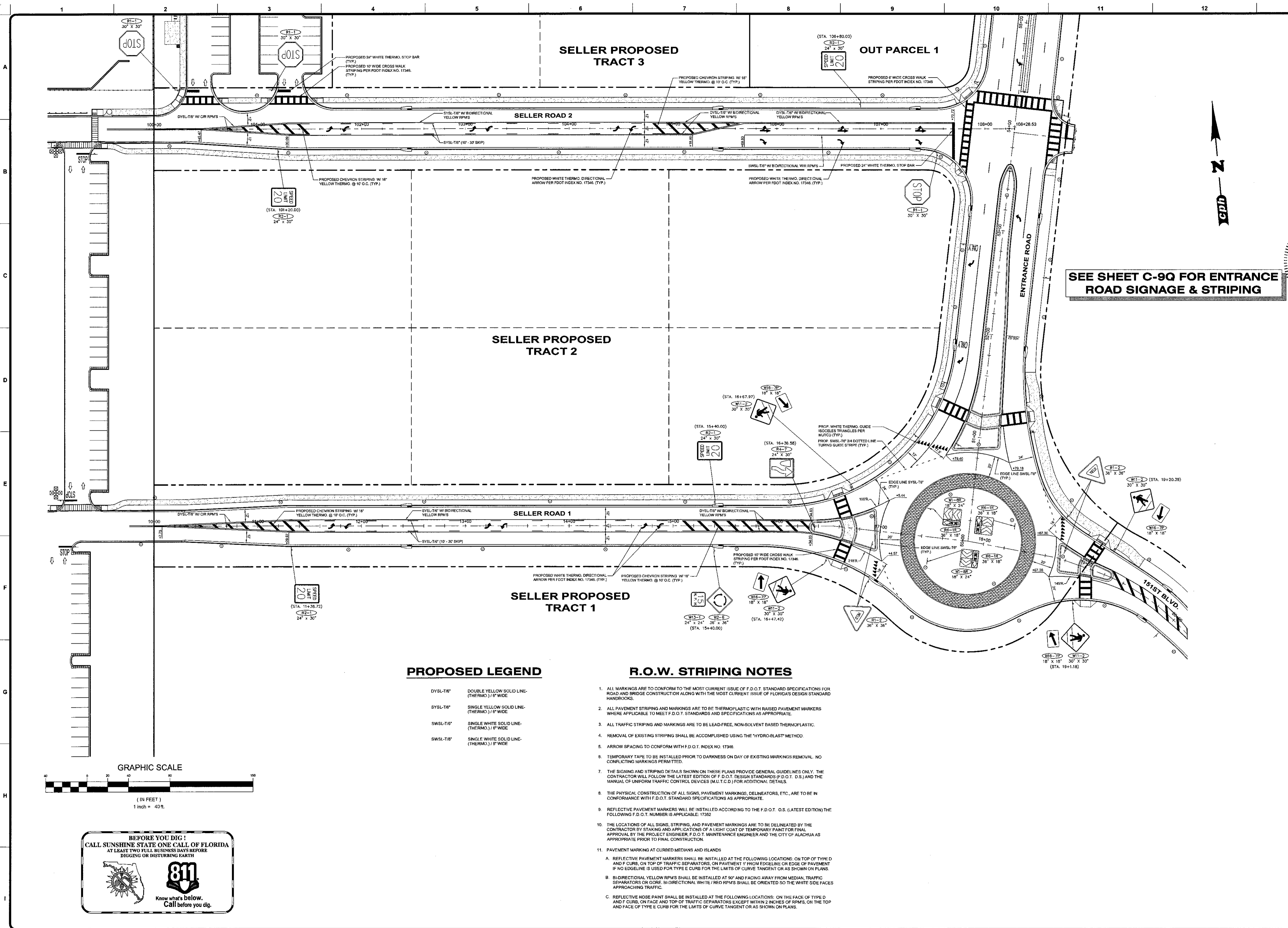


No.	Date	Revision	By
1	6/18/10	CITY SUBMITTAL	H.L.W.
2	8/16/09	W113392.1	H.L.W.
3	8/16/09	W113392.1	H.L.W.
4	8/16/09	W113392.1	H.L.W.
5	8/16/09	W113392.1	H.L.W.
6	8/16/09	W113392.1	H.L.W.
7	8/16/09	W113392.1	H.L.W.
8	8/16/09	W113392.1	H.L.W.
9	8/16/09	W113392.1	H.L.W.
10	8/16/09	W113392.1	H.L.W.

ENTRANCE ROAD
ROADWAY CROSS SECTIONS

STORE NO. 3873-00, ALACHUA (SEC L-75 HWY 441), FLORIDA

Sheet No.
C-9N



PROPOSED LEGEND

- DYSL-T6" DOUBLE YELLOW SOLID LINE (THERMO) 1/6" WIDE
- SYSL-T6" SINGLE YELLOW SOLID LINE (THERMO) 1/6" WIDE
- SWSL-T6" SINGLE WHITE SOLID LINE (THERMO) 1/6" WIDE
- SWSL-T8" SINGLE WHITE SOLID LINE (THERMO) 1/8" WIDE

R.O.W. STRIPING NOTES

1. ALL MARKINGS ARE TO CONFORM TO THE MOST CURRENT ISSUE OF F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ALONG WITH THE MOST CURRENT ISSUE OF FLORIDA'S DESIGN STANDARD HANDBOOKS.
2. ALL PAVEMENT STRIPING AND MARKINGS ARE TO BE THERMOPLASTIC WITH RAISED PAVEMENT MARKERS WHERE APPLICABLE TO MEET F.D.O.T. STANDARDS AND SPECIFICATIONS AS APPROPRIATE.
3. ALL TRAFFIC STRIPING AND MARKINGS ARE TO BE LEAD-FREE, NON-SOLVENT BASED THERMOPLASTIC.
4. REMOVAL OF EXISTING STRIPING SHALL BE ACCOMPLISHED USING THE "HYDRO-BLAST" METHOD.
5. ARROW SPACING TO CONFORM WITH F.D.O.T. INDEX NO. 17346.
6. TEMPORARY TAPE TO BE INSTALLED PRIOR TO DARKNESS ON DAY OF EXISTING MARKINGS REMOVAL. NO CONFLICTING MARKINGS PERMITTED.
7. THE SIGNING AND STRIPING DETAILS SHOWN ON THESE PLANS PROVIDE GENERAL GUIDELINES ONLY. THE CONTRACTOR WILL FOLLOW THE LATEST EDITION OF F.D.O.T. DESIGN STANDARDS (F.D.O.T. D.S.) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) FOR ADDITIONAL DETAILS.
8. THE PHYSICAL CONSTRUCTION OF ALL SIGNS, PAVEMENT MARKINGS, DELINEATORS, ETC., ARE TO BE IN CONFORMANCE WITH F.D.O.T. STANDARD SPECIFICATIONS AS APPROPRIATE.
9. REFLECTIVE PAVEMENT MARKERS WILL BE INSTALLED ACCORDING TO THE F.D.O.T. O.S. (LATEST EDITION) THE FOLLOWING F.D.O.T. NUMBER IS APPLICABLE: 17352
10. THE LOCATIONS OF ALL SIGNS, STRIPING, AND PAVEMENT MARKINGS ARE TO BE DELINEATED BY THE CONTRACTOR BY STAKING AND APPLICATIONS OF A LIGHT COAT OF TEMPORARY PAINT FOR FINAL APPROVAL BY THE PROJECT ENGINEER, F.D.O.T. MAINTENANCE ENGINEER AND THE CITY OF ALACHUA AS APPROPRIATE PRIOR TO FINAL CONSTRUCTION.
11. PAVEMENT MARKING AT CURBED MEDIANS AND ISLANDS
 - A. REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED AT THE FOLLOWING LOCATIONS: ON TOP OF TYPE D AND F CURB, ON TOP OF TRAFFIC SEPARATORS, ON PAVEMENT 1' FROM EDGE LINE OR EDGE OF PAVEMENT IF NO EDGE LINE IS USED FOR TYPE E CURB OR THE LIMITS OF CURVE TANGENT OR AS SHOWN ON PLANS.
 - B. BIDIRECTIONAL YELLOW RPMS SHALL BE INSTALLED AT 90° AND FACING AWAY FROM MEDIAN, TRAFFIC SEPARATORS OR CORNER. BI-DIRECTIONAL WHITE/RED RPMS SHALL BE ORIENTED SO THE WHITE SIDE FACES APPROACHING TRAFFIC.
 - C. REFLECTIVE NOSE PAINT SHALL BE INSTALLED AT THE FOLLOWING LOCATIONS: ON THE FACE OF TYPE D AND F CURB, ON FACE AND TOP OF TRAFFIC SEPARATORS EXCEPT WITHIN 2 INCHES OF RPMS, ON THE TOP AND FACE OF TYPE E CURB FOR THE LIMITS OF CURVE TANGENT OR AS SHOWN ON PLANS.

SEE SHEET C-9Q FOR ENTRANCE ROAD SIGNAGE & STRIPING

gph
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 PROFESSIONAL ENGINEER

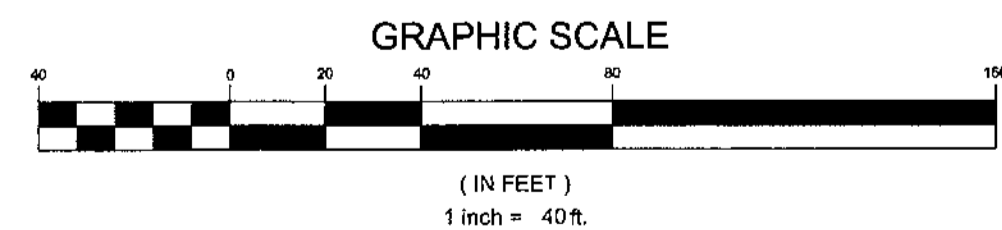
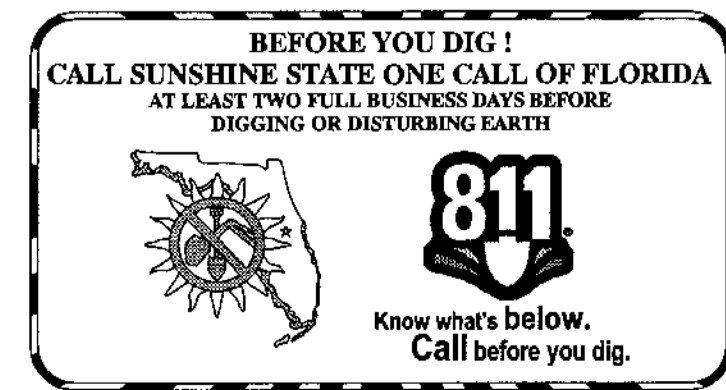
By	Date	Revision
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C.D.P.	5/21/10	2
J.A.B.	5/21/10	3
H.L.W.	5/21/10	4
1" = 40'	5/21/10	5
W/13392.1	5/21/10	6
6/8/10	5/21/10	7
CITY SUBMITTAL	5/21/10	8

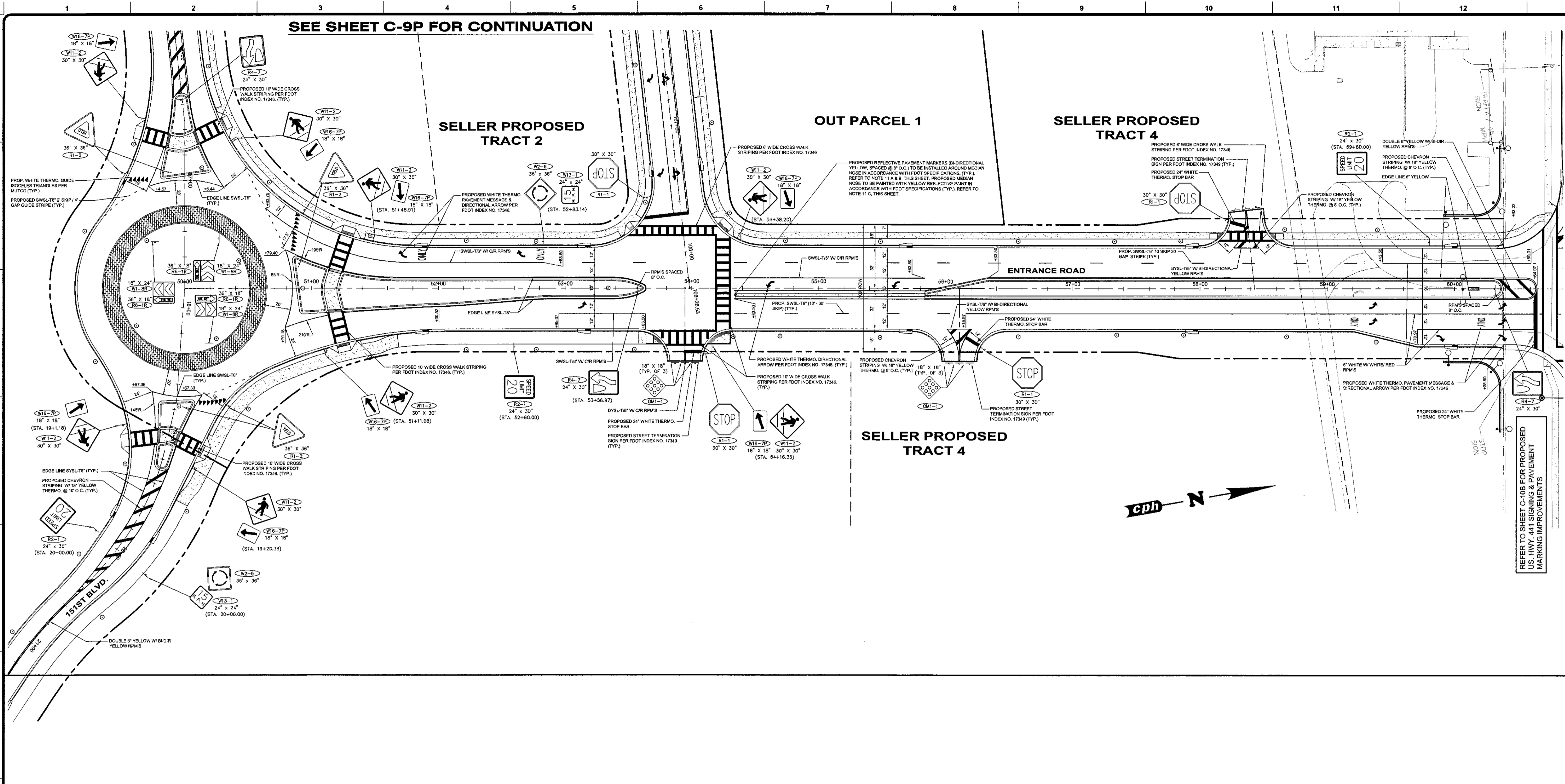
SELLER ROAD 1 AND 2 SIGNING AND PAVEMENT MARKING PLAN

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Sheet No. **C-9P**





SEE SHEET C-9P FOR CONTINUATION

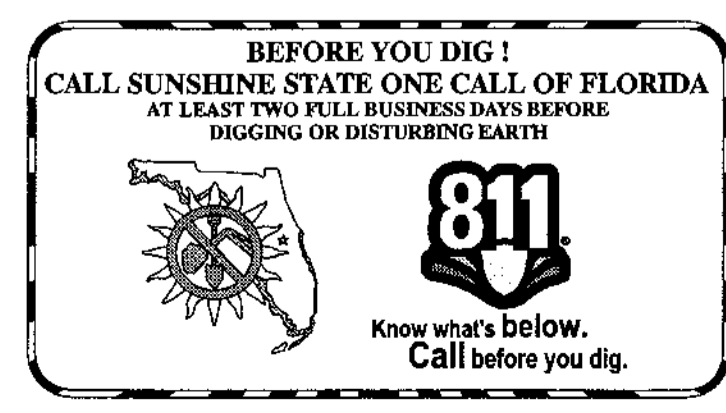
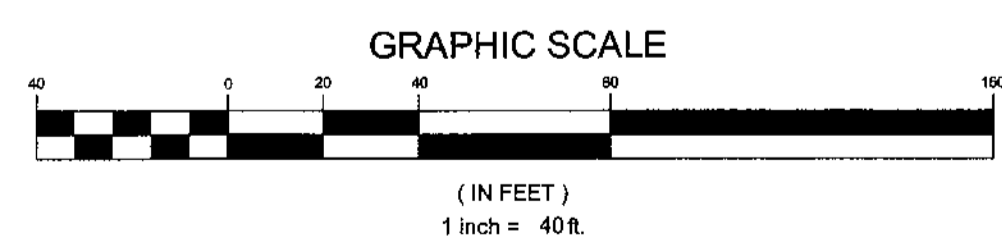
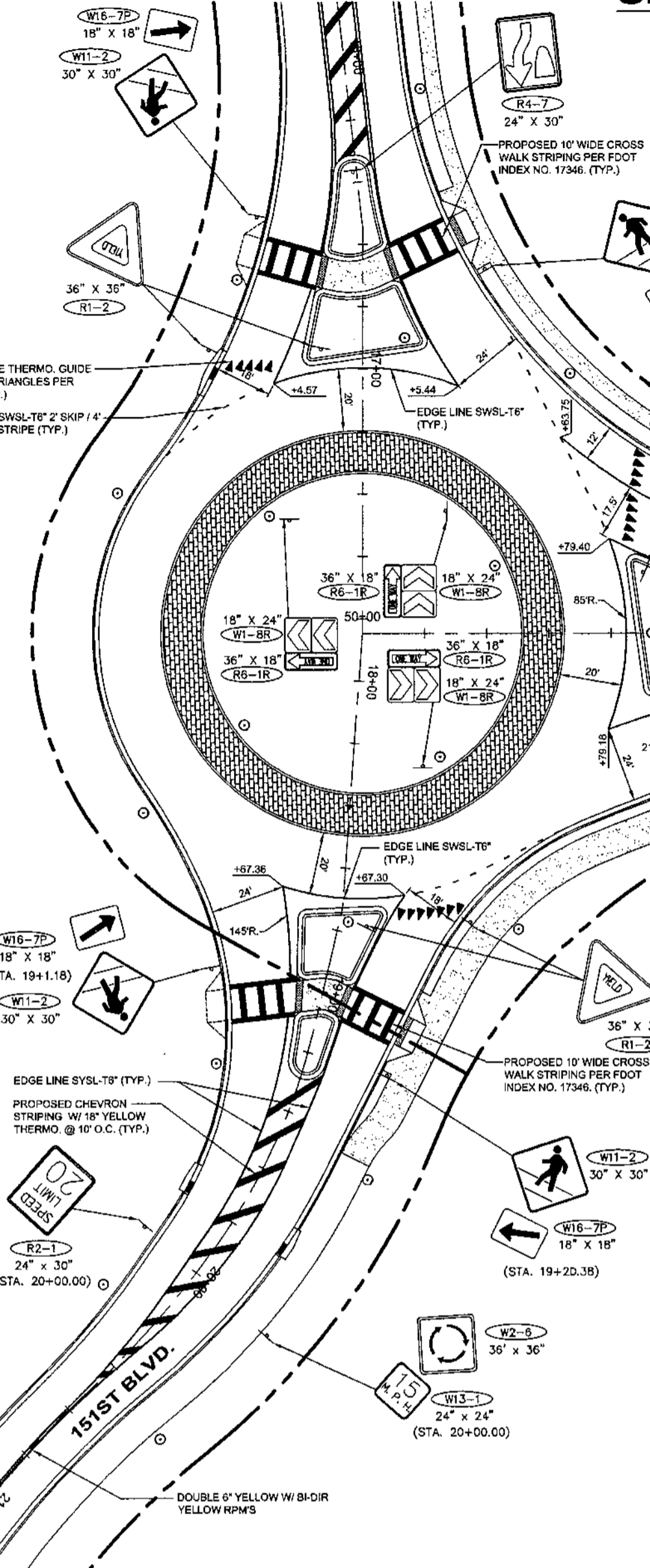
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OUT PARCEL 1

SELLER PROPOSED TRACT 4

SELLER PROPOSED TRACT 4

ENTRANCE ROAD

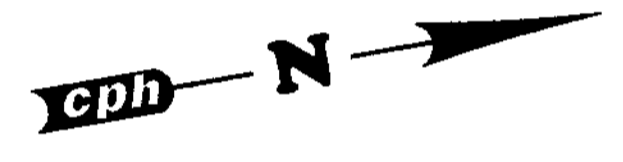


PROPOSED LEGEND

- DYSL-T8" DOUBLE YELLOW SOLID LINE-(THERMO) 1/8" WIDE
- SYSL-T8" SINGLE YELLOW SOLID LINE-(THERMO) 1/8" WIDE
- SWSL-T8" SINGLE WHITE SOLID LINE-(THERMO) 1/8" WIDE
- SWSL-T8" SINGLE WHITE SOLID LINE-(THERMO) 1/8" WIDE

R.O.W. STRIPING NOTES

1. ALL MARKINGS ARE TO CONFORM TO THE MOST CURRENT ISSUE OF F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ALONG WITH THE MOST CURRENT ISSUE OF FLORIDA'S DESIGN STANDARD HANDBOOKS.
2. ALL PAVEMENT STRIPING AND MARKINGS ARE TO BE THERMOPLASTIC WITH RAISED PAVEMENT MARKERS WHERE APPLICABLE TO MEET F.D.O.T. STANDARDS AND SPECIFICATIONS AS APPROPRIATE.
3. ALL TRAFFIC STRIPING AND MARKINGS ARE TO BE LEAD-FREE, NON-SOLVENT BASED THERMOPLASTIC.
4. REMOVAL OF EXISTING STRIPING SHALL BE ACCOMPLISHED USING THE "HYDRO-BLAST" METHOD.
5. ARROW SPACING TO CONFORM WITH F.D.O.T. INDEX NO. 17346.
6. TEMPORARY TAPE TO BE INSTALLED PRIOR TO DARKNESS ON DAY OF EXISTING MARKINGS REMOVAL. NO CONFLICTING MARKINGS PERMITTED.
7. THE SIGNING AND STRIPING DETAILS SHOWN ON THESE PLANS PROVIDE GENERAL GUIDELINES ONLY. THE CONTRACTOR WILL FOLLOW THE LATEST EDITION OF F.D.O.T. DESIGN STANDARDS (F.D.O.T. D.S.) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) FOR ADDITIONAL DETAILS.
8. THE PHYSICAL CONSTRUCTION OF ALL SIGNS, PAVEMENT MARKINGS, DELINEATORS, ETC., ARE TO BE IN CONFORMANCE WITH F.D.O.T. STANDARD SPECIFICATIONS AS APPROPRIATE.
9. REFLECTIVE PAVEMENT MARKERS WILL BE INSTALLED ACCORDING TO THE F.D.O.T. D.S. (LATEST EDITION) THE FOLLOWING F.D.O.T. NUMBER IS APPLICABLE: 17392.
10. THE LOCATIONS OF ALL SIGNS, STRIPING, AND PAVEMENT MARKINGS ARE TO BE DELINEATED BY THE CONTRACTOR BY STAKING AND APPLICATIONS OF A LIGHT COAT OF TEMPORARY PAINT FOR FINAL APPROVAL BY THE PROJECT ENGINEER, F.D.O.T. MAINTENANCE ENGINEER AND THE CITY OF ALACHUA AS APPROPRIATE PRIOR TO FINAL CONSTRUCTION.
11. PAVEMENT MARKING AT CURBED MEDIANS AND ISLANDS
 - A. REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED AT THE FOLLOWING LOCATIONS: ON TOP OF TYPE D AND F CURB; ON TOP OF TRAFFIC SEPARATORS; ON PAVEMENT 1' FROM EDGELINE OR EDGE OF PAVEMENT IF NO EDGELINE IS USED FOR TYPE E CURB FOR THE LIMITS OF CURVE TANGENT OR AS SHOWN ON PLANS.
 - B. BI-DIRECTIONAL YELLOW RPM'S SHALL BE INSTALLED AT 90° AND FACING AWAY FROM MEDIAN, TRAFFIC SEPARATORS OR GORE. BI-DIRECTIONAL WHITE / RED RPM'S SHALL BE ORIENTED SO THE WHITE SIDE FACES APPROACHING TRAFFIC.
 - C. REFLECTIVE NOISE PAINT SHALL BE INSTALLED AT THE FOLLOWING LOCATIONS: ON THE FACE OF TYPE D AND F CURB; ON FACE AND TOP OF TRAFFIC SEPARATORS EXCEPT WITHIN 3" INCHES OF RPM'S; ON THE TOP AND FACE OF TYPE E CURB FOR THE LIMITS OF CURVE TANGENT OR AS SHOWN ON PLANS.

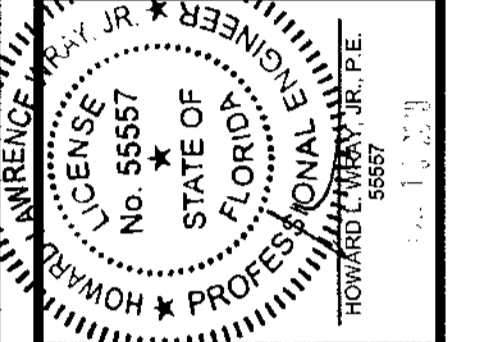


REFER TO SHEET C-10B FOR PROPOSED US-HWY 441 SIGNING & PAVEMENT MARKING IMPROVEMENTS

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 Sanford, Florida 32772-2808
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By	Revision	Date	No.
J.K.B.			1
C.D.P.			2
J.A.B.			3
H.L.W.			4
T = 40'			5
5/21/10			6
W13392.1			7

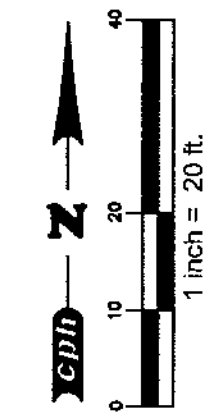
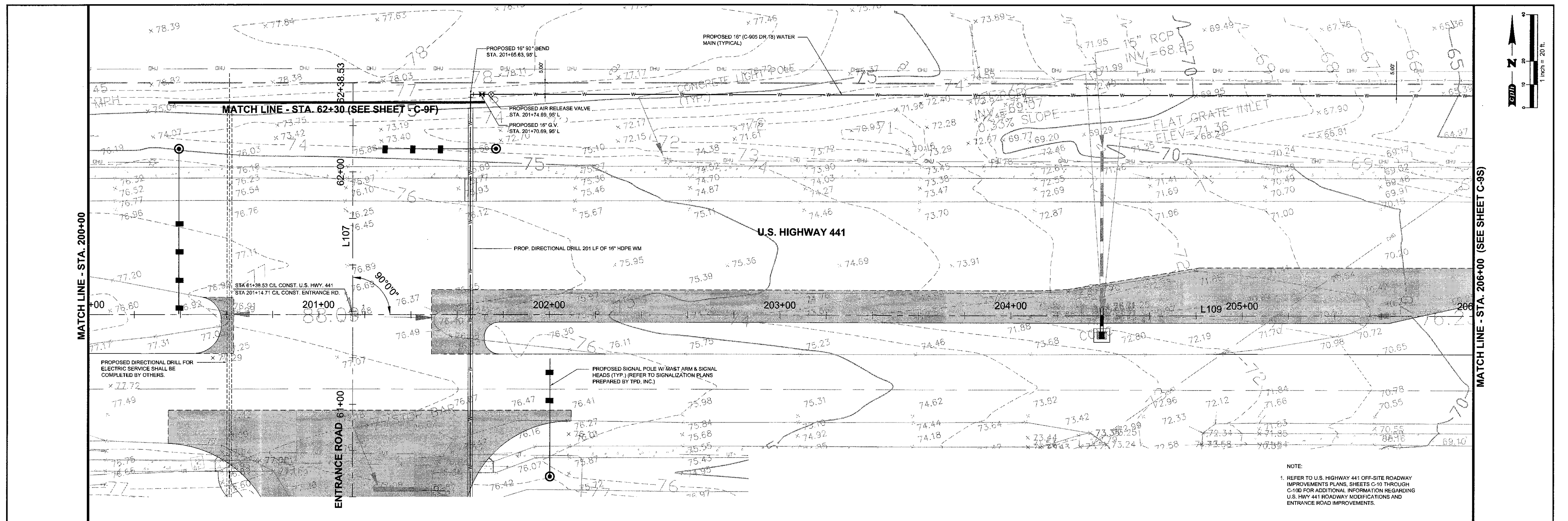
File: ENTRANCE ROAD STRIPING PLAN

ENTRANCE ROAD SIGNING AND PAVEMENT MARKING PLAN

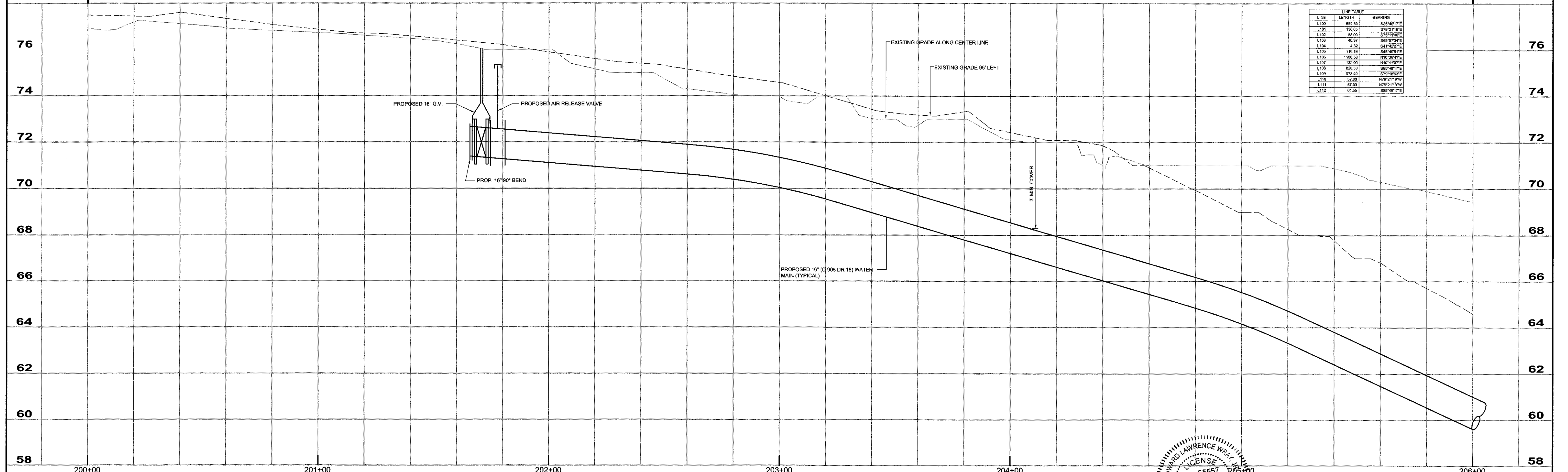
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Sheet No. **C-9Q**




NOTE:
 1. REFER TO U.S. HIGHWAY 441 OFF-SITE ROADWAY IMPROVEMENTS PLANS, SHEETS C-10 THROUGH C-100 FOR ADDITIONAL INFORMATION REGARDING U.S. HWY 441 ROADWAY MODIFICATIONS AND ENTRANCE ROAD IMPROVEMENTS.




No.	Date	Revision	By	No.	Date	Revision	By
1	8/18/06	CITY SUBMITTAL	H.L.W.	1			

Designed by:	J.K.B.	Date:	8/2006
Drawn by:	D.T.	Job No.:	W13392
Checked by:	J.A.B.	File:	PP8
Approved by:	H.L.W.	Certificate of Authorization No.:	3215
Scale:	1" = 20'(H) - 1" = 2'(V)		
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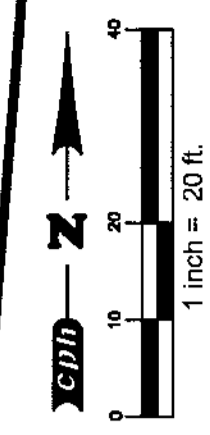
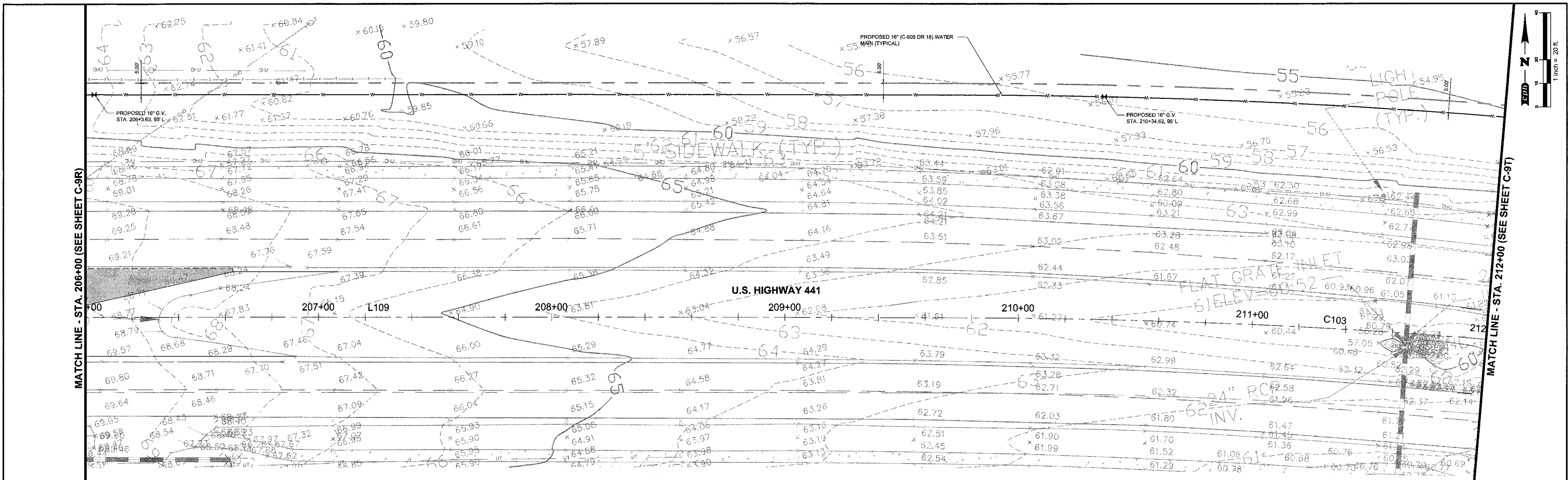
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Sanford, FL 32773
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STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 No. 55557

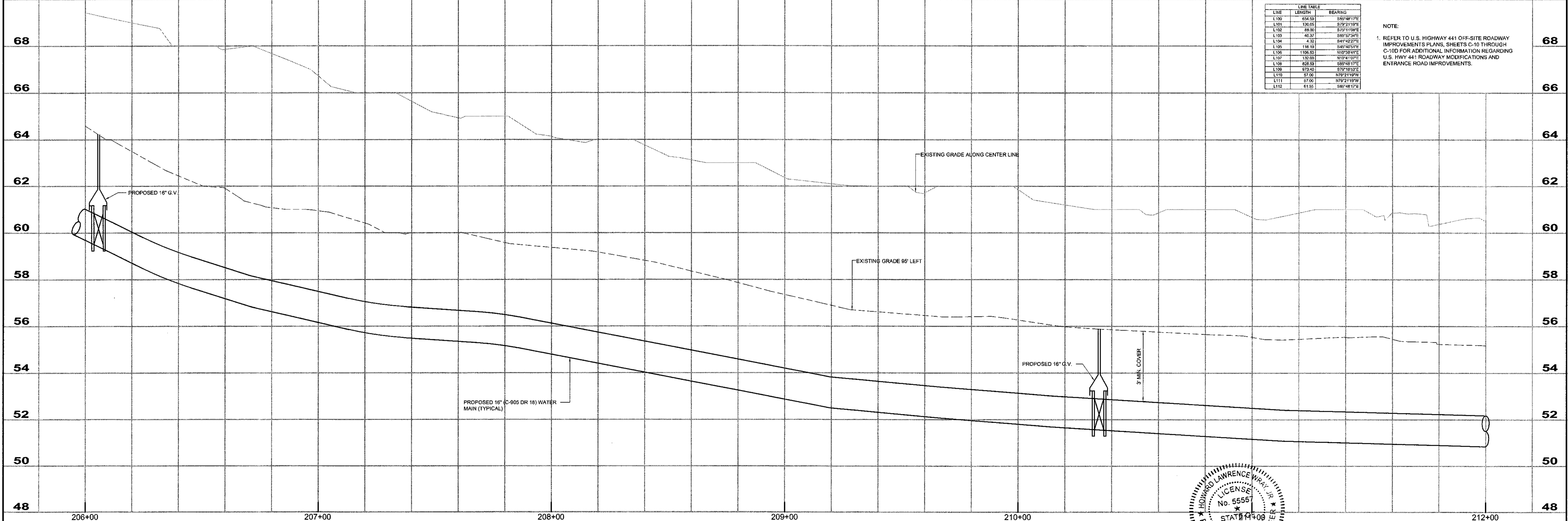
**U.S. HIGHWAY 441
 PLAN AND PROFILE
 STA. 200+00 TO 206+00**

Sheet No.
C-9R



LINE	LENGTH	BEARING
L100	654.59	S38°41'17"E
L101	130.05	S72°11'05"E
L102	88.00	S72°11'05"E
L103	40.21	S89°24'45"E
L104	4.30	S41°42'27"E
L105	116.19	S45°45'37"E
L106	1106.03	N10°24'45"E
L107	132.00	N10°41'07"E
L108	628.00	S89°48'17"E
L109	974.00	S72°11'05"E
L110	57.00	N78°21'07"W
L111	57.00	N78°21'07"W
L112	61.50	S86°48'17"E

NOTE:
1. REFER TO U.S. HIGHWAY 441 OFF-SITE ROADWAY IMPROVEMENT'S PLANS, SHEETS C-10 THROUGH C-10D FOR ADDITIONAL INFORMATION REGARDING U.S. HWY 441 ROADWAY MODIFICATIONS AND ENTRANCE ROAD IMPROVEMENTS.



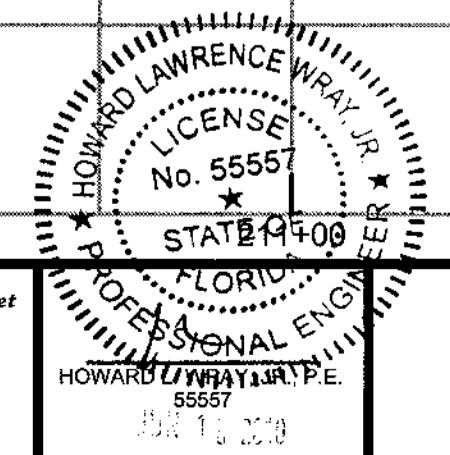
No.	Date	Revision	By	No.	Date	Revision	By
1		CITY SUBMITTAL	HLW				

Designed by: J.K.B. Date: 8/2006
 Drawn by: D.T. Job No. W13382
 Checked by: J.A.B. File: PP9
 Approved by: H.L.W. Certificate of Authorization No. 3215
 Scale: 1" = 20'(H) - 1" = 2'(V) © 2010

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 STORE NO. 3873-00, ALACHUA (SEC I-75 HWY 441), FLORIDA

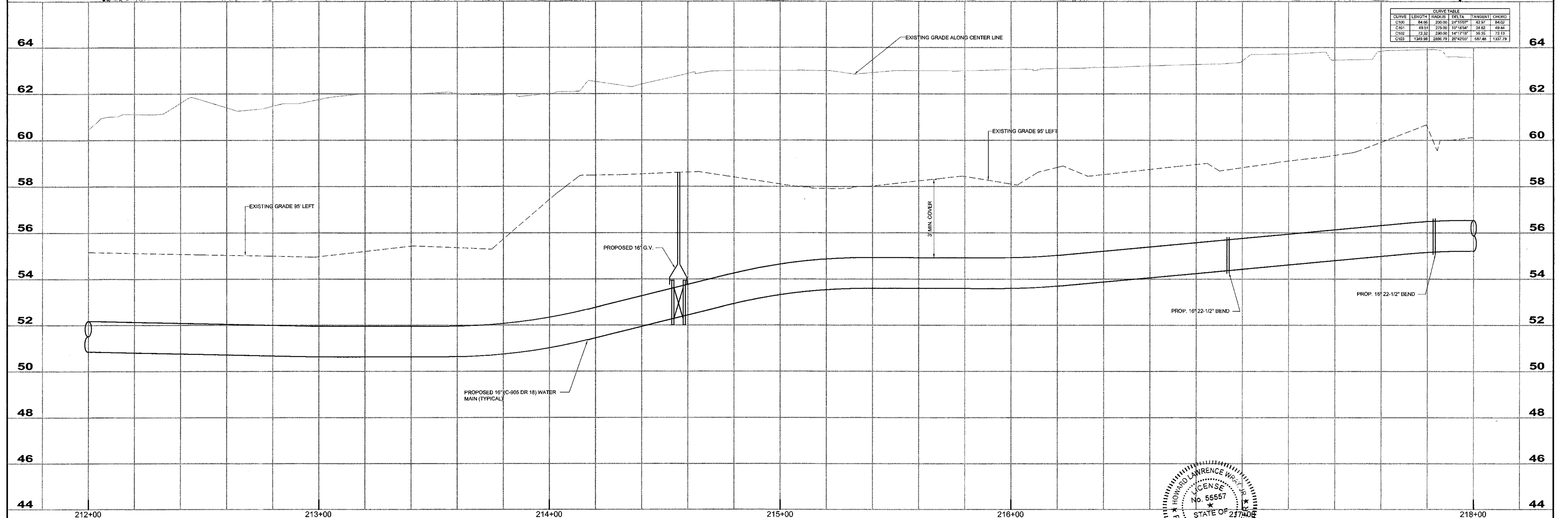
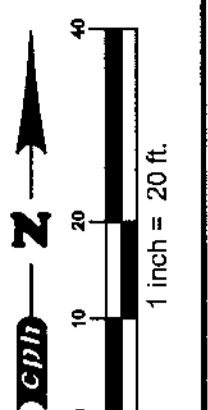
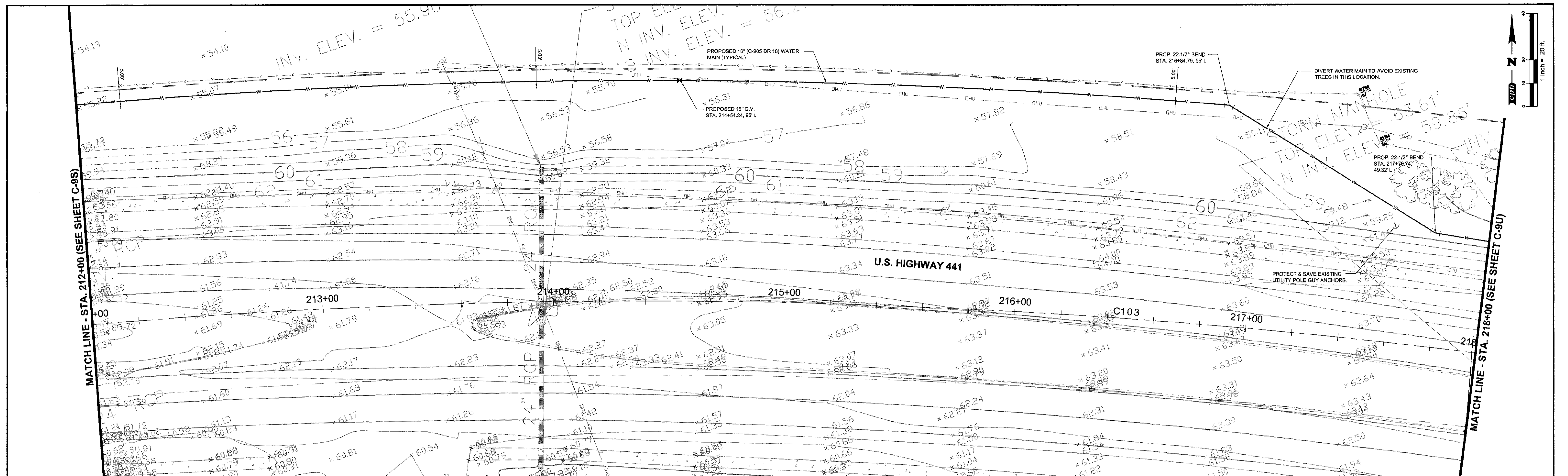
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**U.S. HIGHWAY 441
 PLAN AND PROFILE
 STA. 206+00 TO 212+00**

Sheet No. **C-9S**



CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	TANGENT	CHORD
C100	84.96	200.00	24°15'00"	43.97	84.00
C101	49.51	225.00	10°15'00"	24.62	49.84
C102	72.32	200.00	14°11'00"	35.32	72.13
C103	1249.98	2800.79	2°42'00"	687.48	1237.79

No.	Date	Revision	By	No.	Date	Revision	By
1	8/2006	CITY SUBMITTAL	H.L.W.				

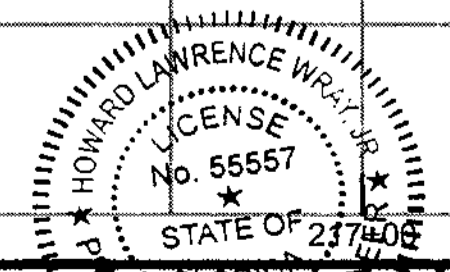
Designed by: J.K.B. Date: 8/2006
 Drawn by: D.T. Job No. W13392
 Checked by: J.A.B. File: PP10
 Approved by: H.L.W. Certificate of Authorization No. 3215
 Scale: 1" = 20'(H) - 1" = 2'(V) © 2010

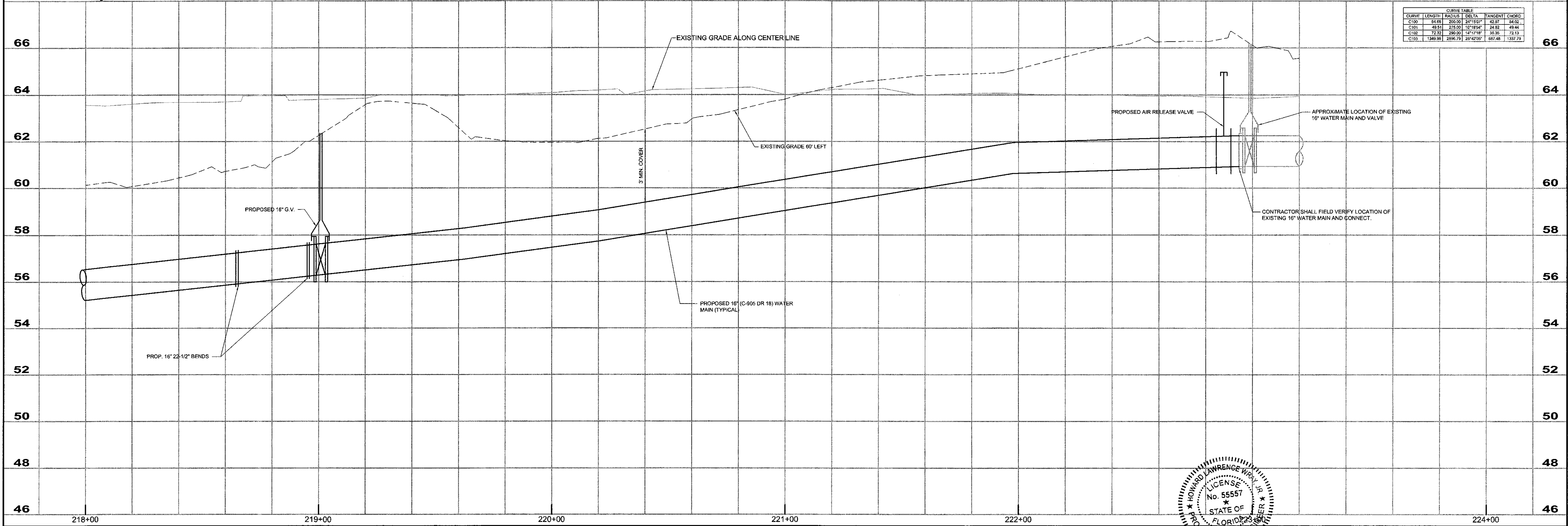
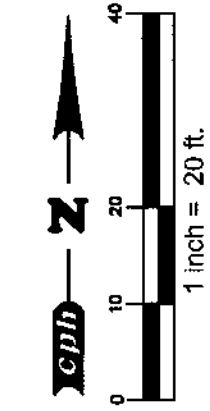
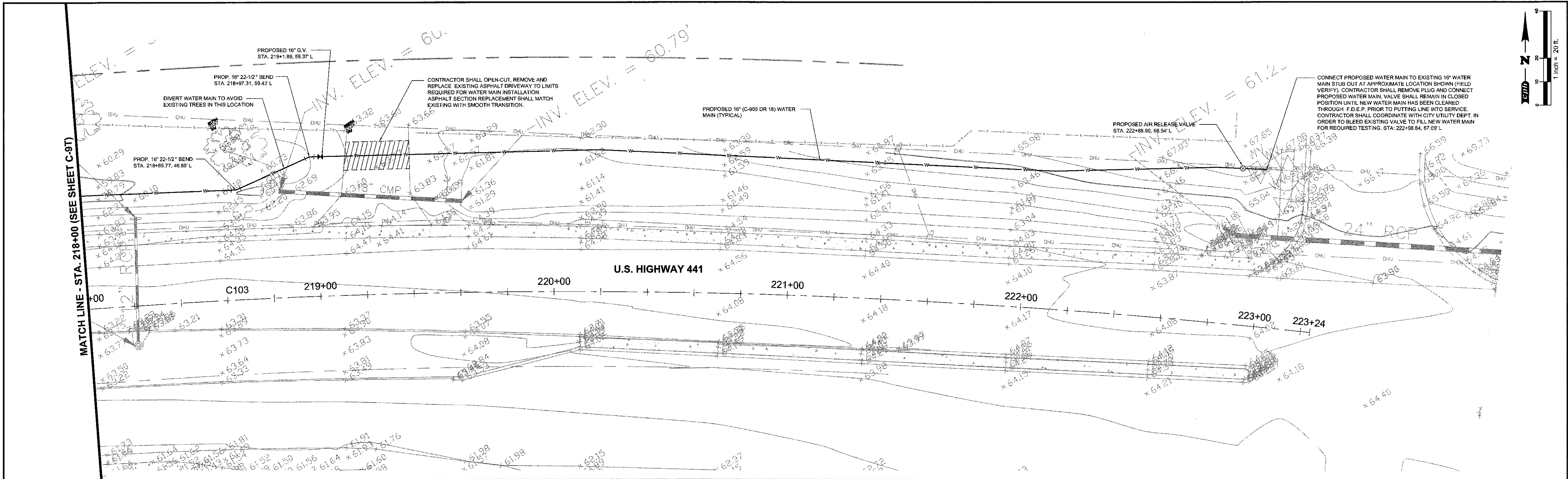


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**U.S. HIGHWAY 441
 PLAN AND PROFILE
 STA. 212+00 TO 218+00**

Sheet No.
C-9T





CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	TANGENT CHORD
C100	84.66	200.00	28°15'07"	42.87 84.02
C101	49.51	225.00	12°18'54"	24.82 49.44
C102	72.91	250.00	12°11'18"	35.35 72.13
C103	1340.86	2896.79	20°42'06"	687.48 1337.29

No.	Date	Revision	By	No.	Date	Revision	By
1	8/15/06	CITY SUBMITAL	HLW				

Designed by:	J.K.B.	Date:	8/2006
Drawn by:	D.T.	Job No.:	W13392
Checked by:	J.A.B.	File:	PP11
Approved by:	H.L.W.	Certificate of Authorization No.:	3215
Scale: 1" = 20'(H) - 1" = 2'(V)			
© 2010			

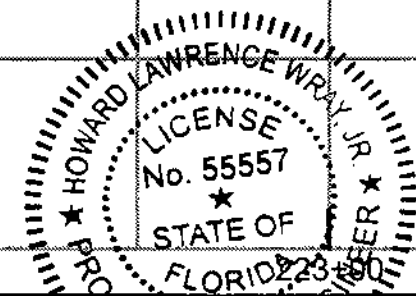
STORE NO. 3873-00, ALACHUA (SEC I-75 HWY 441), FLORIDA

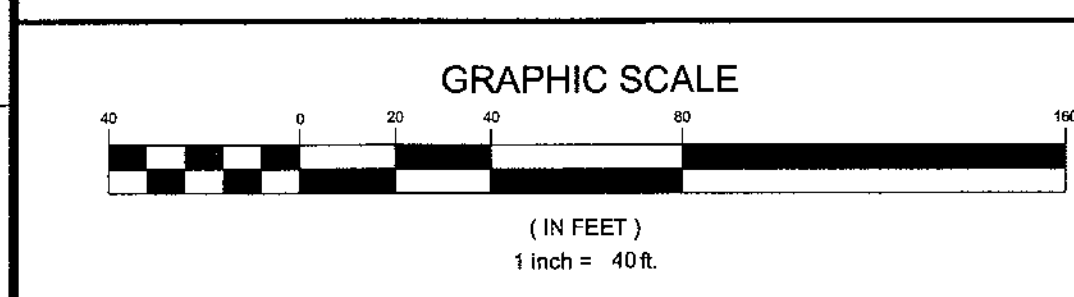
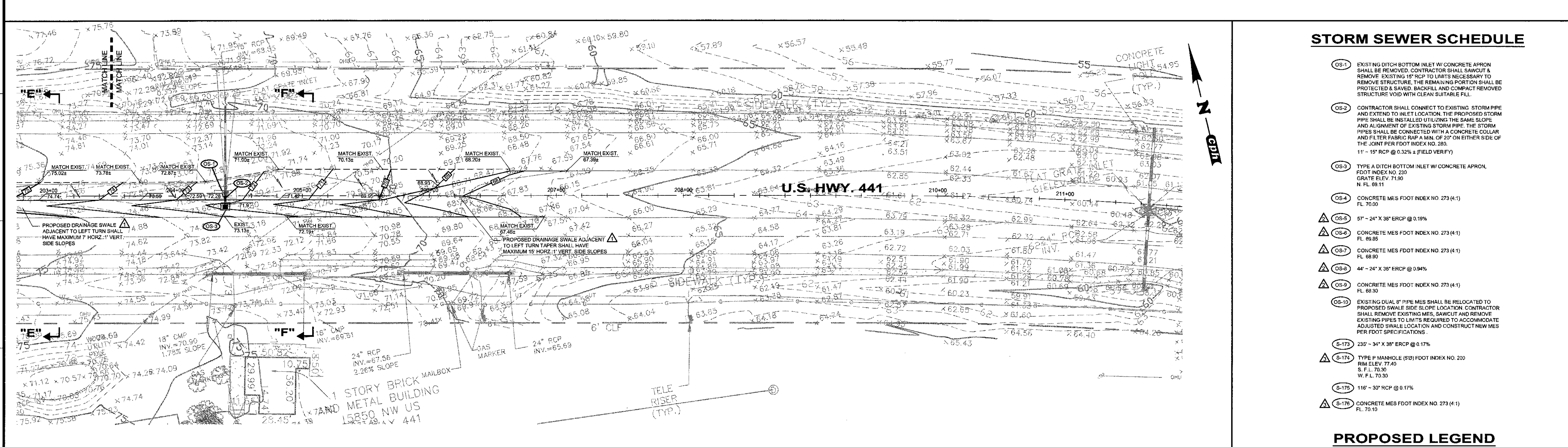
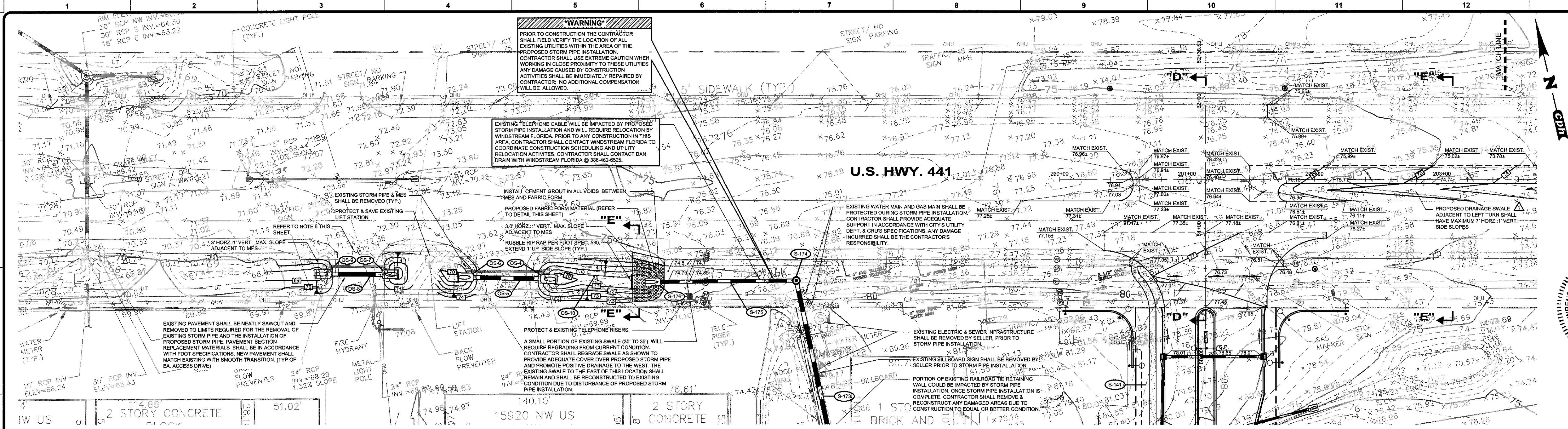
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U.S. HIGHWAY 441
PLAN AND PROFILE
STA. 218+00 TO 223+24

Sheet No.
C-9U





NOTES:

- ALL DISTURBED AREAS WITHIN THE DEPARTMENT OF TRANSPORTATION RIGHT OF WAY WILL BE RESTORED TO ORIGINAL OR BETTER CONDITION BY GRADING AND SOFTENING THE AREA DISTURBED (BERMUDA IN RURAL, CENTPEEDIE IN UTILITY STRIPS).
- REFER TO GRADING & STORM DRAINAGE PLAN SHEET C-7 & C-7A FOR ADDITIONAL INFORMATION.
- PIPE LENGTHS ASSOCIATED WITH MITERED END SECTIONS DO NOT INCLUDE SEGMENT TO BE INCLUDED UNDER UNIT PRICE FOR M.E.S. (A.K.A. DIMENSION F, F.D.O.T. INDEX NO. 275).
- REFER TO SHEET C-10B FOR CROSS SECTIONS.
- REFER TO EROSION AND SEDIMENTATION PLANS, SHEETS C-4 THRU C-4D FOR EROSION CONTROL LOCATIONS & SPECIFICATIONS.
- CONTRACTOR SHALL BE LIMITED TO ONE ACCESS DRIVE CLOSURE FOR THE INSTALLATION OF PROPOSED CULVERT STORM PIPES. ONE ACCESS DRIVE SHALL BE MAINTAINED THROUGH TRAFFIC AT ALL TIMES DURING THE PHASES OF DEMOLITION AND CONSTRUCTION. CONTRACTOR SHALL PROVIDE MOT IN ACCORDANCE WITH FDOT SPECIFICATIONS.

FABRIC FORM DETAIL

PROPOSED 6" FIBER POINT MAT (FPM) FABRIC FORM MATERIAL (TYP.).
FABRIC FORM SUB-BASE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 (TYP.).

RUBBLE RIP RAP PER FOOT SPEC. 530.

2" TOS IN (TYP. ALL SIDES)

PROP. FILTER FABRIC FOOT TYPES D4 OR APPROVED EQUAL (TYP.).

PROPOSED LEGEND

- (T.C.) TOP OF CURB
- (E.P.) EDGE OF PAVEMENT
- PROP. FLOW DIRECTION
- PROP. STORM PIPE
- PROP. CONTOUR

EROSION AND SEDIMENTATION CONTROL NOTES

THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES WITH THE SILT FENCE PER FDOT INDEX NO. 102 WITH FILTER FABRIC IN ACCORDANCE WITH SECTION 965 OF THE F.D.O.T. STANDARD SPECIFICATIONS.

BEFORE YOU DIG!
CALL SUNSHINE STATE ONE CALL OF FLORIDA AT LEAST TWO FULL BUSINESS DAYS BEFORE DIGGING OR DISTURBING EARTH

811
Know what's below.
Call before you dig.

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Survey L.B. No. 7143
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Landscape Lic. No. LC0000298
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PROFESSIONAL ENGINEER & ARCHITECT
No. 55657
STATE OF FLORIDA
TOWARD W. HWY. 441, P.E.
TOWARD W. HWY. 441, P.E.
TOWARD W. HWY. 441, P.E.

By	Date	No.	Revision
J.K.B.			
J.K.B.			
G.D.			
H.L.W.	6/18/10		
H.L.W.	12/20/09		
H.L.W.	6/28/07		
H.L.W.	4/6/05		
H.L.W.	1/13/06		
H.L.W.	1/13/02		

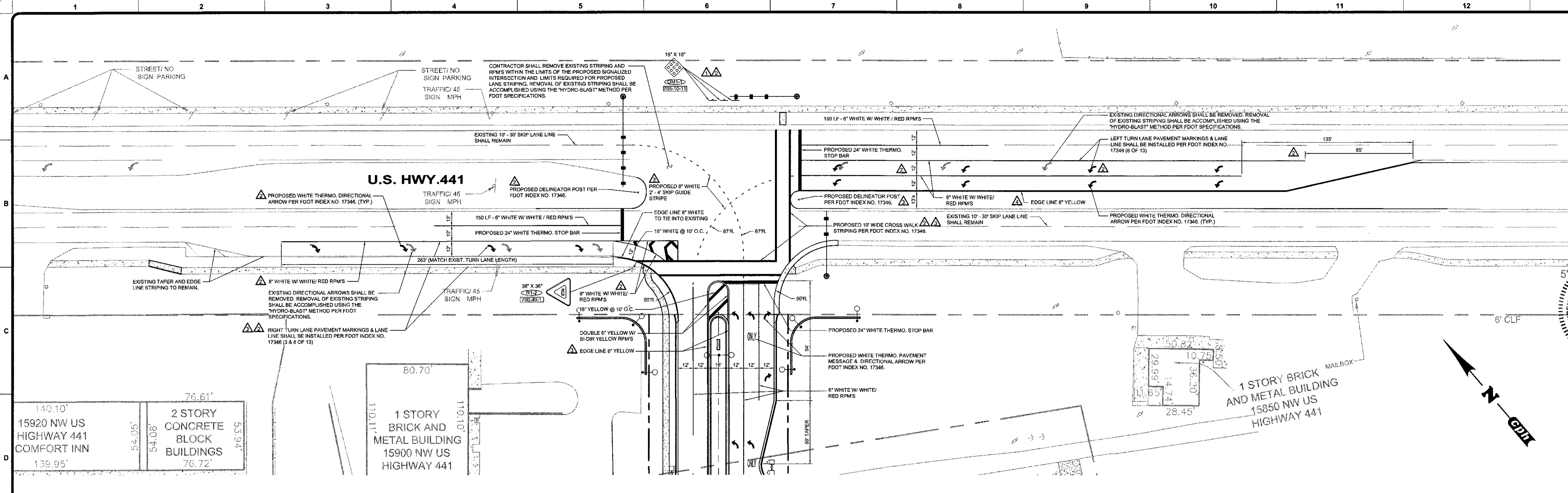
U.S. HIGHWAY 441 OFF-SITE ROADWAY IMPROVEMENT (GRADING & DRAINAGE PLAN)

Walmart

STORE NO. 3873-00, ALACHUA (SEC. 175 & HWY 441), FLORIDA

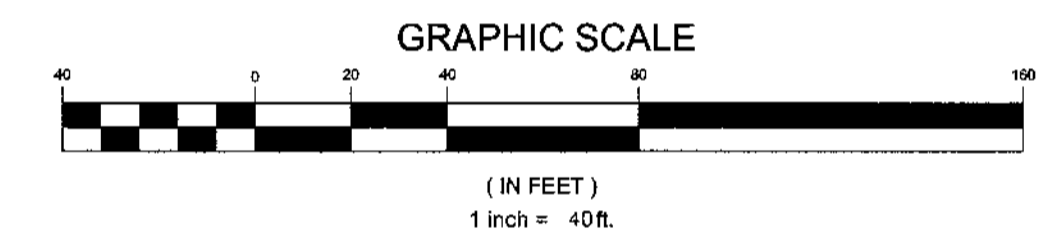
Sheet No.

C-10A



R.O.W. STRIPING & SIGNAGE NOTES

- ALL MARKINGS ARE TO CONFORM TO THE MOST CURRENT ISSUE OF F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ALONG WITH THE MOST CURRENT ISSUE OF FLORIDA'S DESIGN STANDARD HANDBOOKS.
- ALL PAVEMENT STRIPING AND MARKINGS ARE TO BE THERMOPLASTIC WITH RAISED PAVEMENT MARKERS WHERE APPLICABLE TO MEET F.D.O.T. STANDARDS AND SPECIFICATIONS AS APPROPRIATE.
- ALL TRAFFIC STRIPING AND MARKINGS ARE TO BE LEAD-FREE, NON-SOLVENT BASED THERMOPLASTIC.
- REMOVAL OF EXISTING STRIPING SHALL BE ACCOMPLISHED USING THE "HYDRO-BLAST" METHOD.
- ARROW SPACING TO CONFORM WITH F.D.O.T. INDEX NO. 17346.
- TEMPORARY TAPE TO BE INSTALLED PRIOR TO DARKNESS ON DAY OF EXISTING MARKINGS REMOVAL. NO CONFLICTING MARKINGS PERMITTED.
- THE SIGNING AND STRIPING DETAILS SHOWN ON THESE PLANS PROVIDE GENERAL GUIDELINES ONLY. THE CONTRACTOR WILL FOLLOW THE LATEST EDITION OF F.D.O.T. DESIGN STANDARDS (F.D.O.T. D.S.) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) FOR ADDITIONAL DETAILS.
- THE PHYSICAL CONSTRUCTION OF ALL SIGNS, PAVEMENT MARKINGS, DELINEATORS, ETC., ARE TO BE IN CONFORMANCE WITH F.D.O.T. STANDARD SPECIFICATIONS AS APPROPRIATE.
- EXISTING SIGNS TO BE RELOCATED AND/OR REMOVED PER CITY OF ALACHUA AND F.D.O.T. SPECIFICATIONS.
- REFLECTIVE PAVEMENT MARKERS WILL BE INSTALLED ACCORDING TO THE F.D.O.T. D.S. (LATEST EDITION) THE FOLLOWING F.D.O.T. NUMBER IS APPLICABLE: 17392.
- CONTRACTOR IS TO PROVIDE FLAGMEN, AND OTHER TRAFFIC CONTROL MEASURES NECESSARY TO PROTECT AND FACILITATE TRAFFIC MOVEMENT DURING CONSTRUCTION.
- THE LOCATIONS OF ALL SIGNS, STRIPING, AND PAVEMENT MARKINGS ARE TO BE DELINEATED BY THE CONTRACTOR BY STAKING AND APPLICATIONS OF A LIGHT COAT OF TEMPORARY PAINT FOR FINAL APPROVAL BY THE PROJECT ENGINEER, F.D.O.T. MAINTENANCE ENGINEER AND THE CITY OF ALACHUA AS APPROPRIATE PRIOR TO FINAL CONSTRUCTION.
- PROPOSED ROADWAY SIGNS SHALL BE INSTALLED PER F.D.O.T. INDEX NO. 17392.



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 Survey L.B. No. 7143
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 Landscp. Lic. No. LC0000298
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No.	Date	Revision	By
1	6/16/10	CITY SUBMITTAL	H.L.W.
2	8/20/08	PER FOOT COMMENTS	H.L.W.
3	7/17/08	PER FOOT COMMENTS	H.L.W.
4	6/11/08	PER FOOT COMMENTS	H.L.W.
5	4/20/08	PER FOOT COMMENTS	H.L.W.

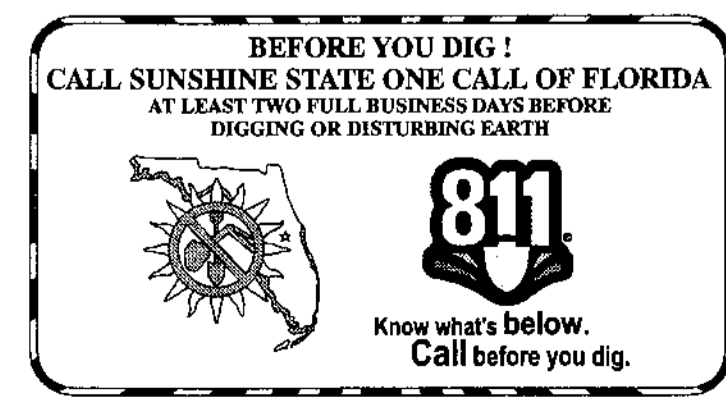
U.S. HIGHWAY 441 OFF-SITE ROADWAY IMPROVEMENT (SIGNING & PAVEMENT MARKING PLAN)

Walmart

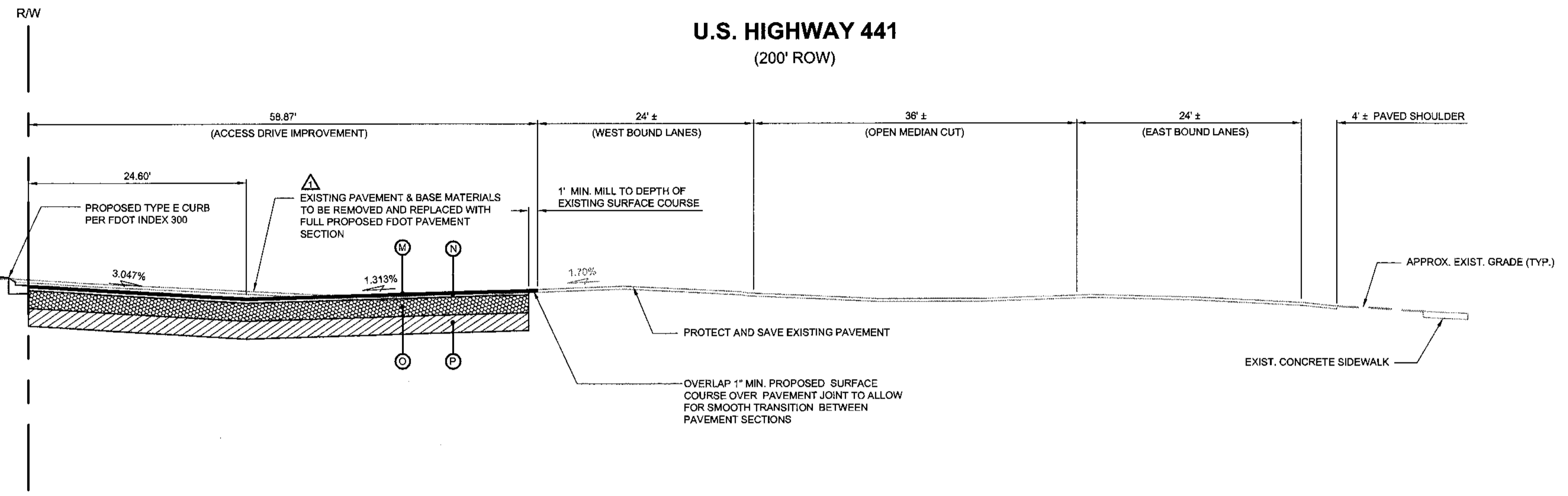
STORE NO. 3873-00, ALACHUA (SEC. 1-75 & HWY 441), FLORIDA

Designed by: J.K.B.
 Drawn by: J.K.B.
 Checked by: G.D.
 Approved by: H.L.W.
 Scale: 1" = 40'
 Date: 1/23/06
 Job No.: W13392.1
 File: US441 STRIPING

Sheet No.
C-10B



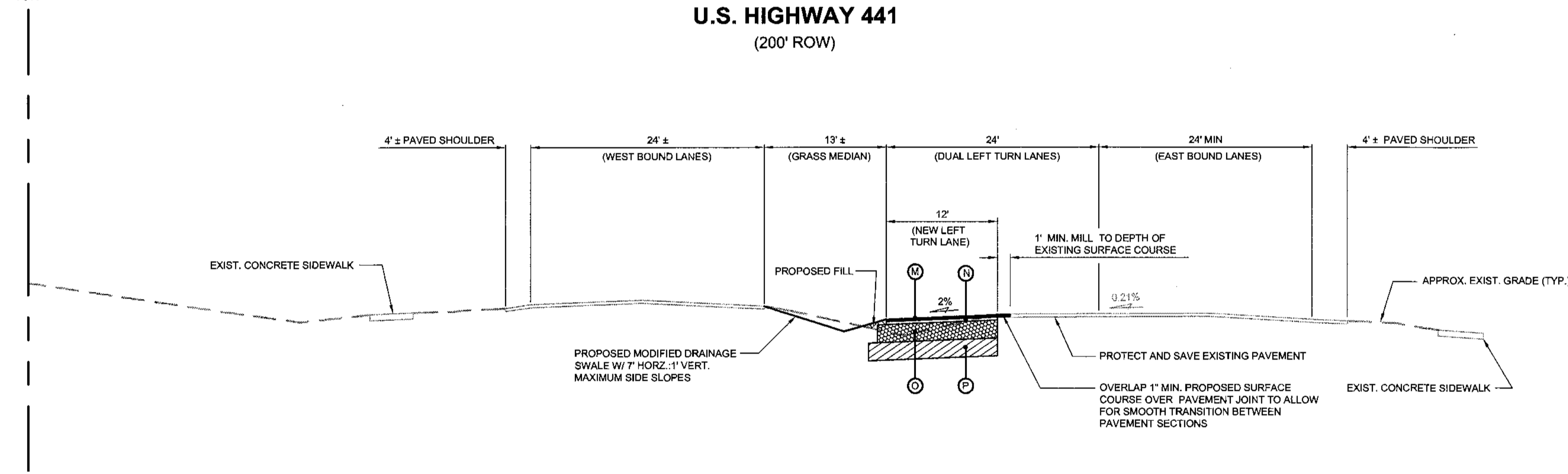
90
86
82
78
74
70
66



SECTION "D"-"D"
SCALE: H. 1" = 10', V. 1" = 5'

90
86
82
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74
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66

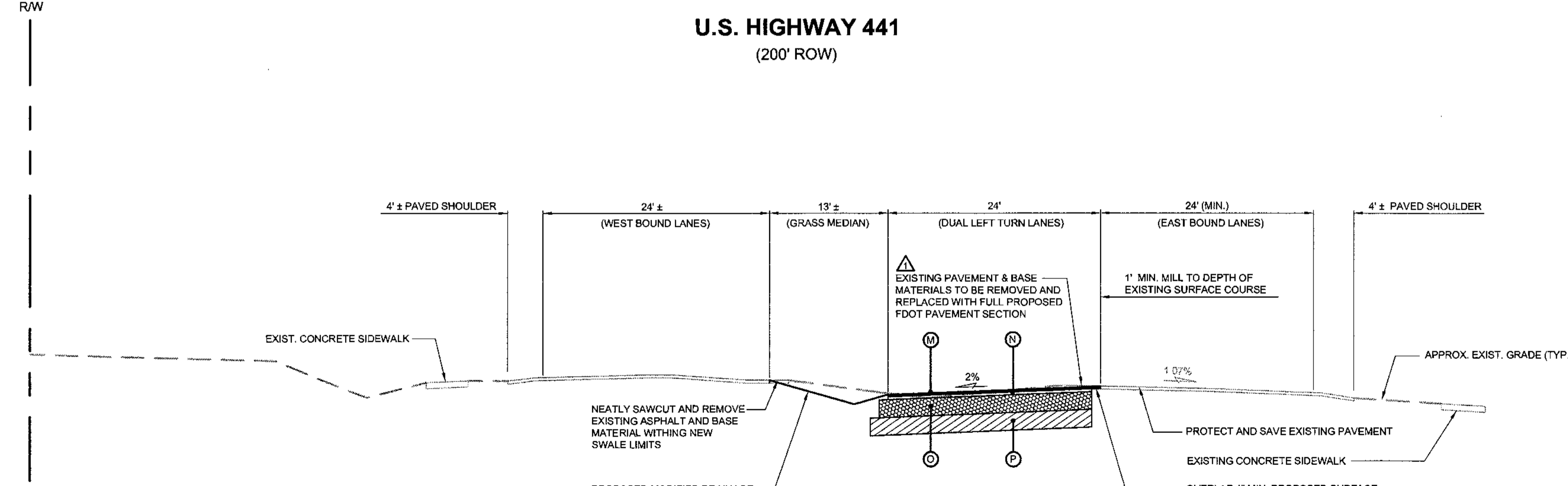
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SECTION "E"-"E"
SCALE: H. 1" = 10', V. 1" = 5'

90
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66

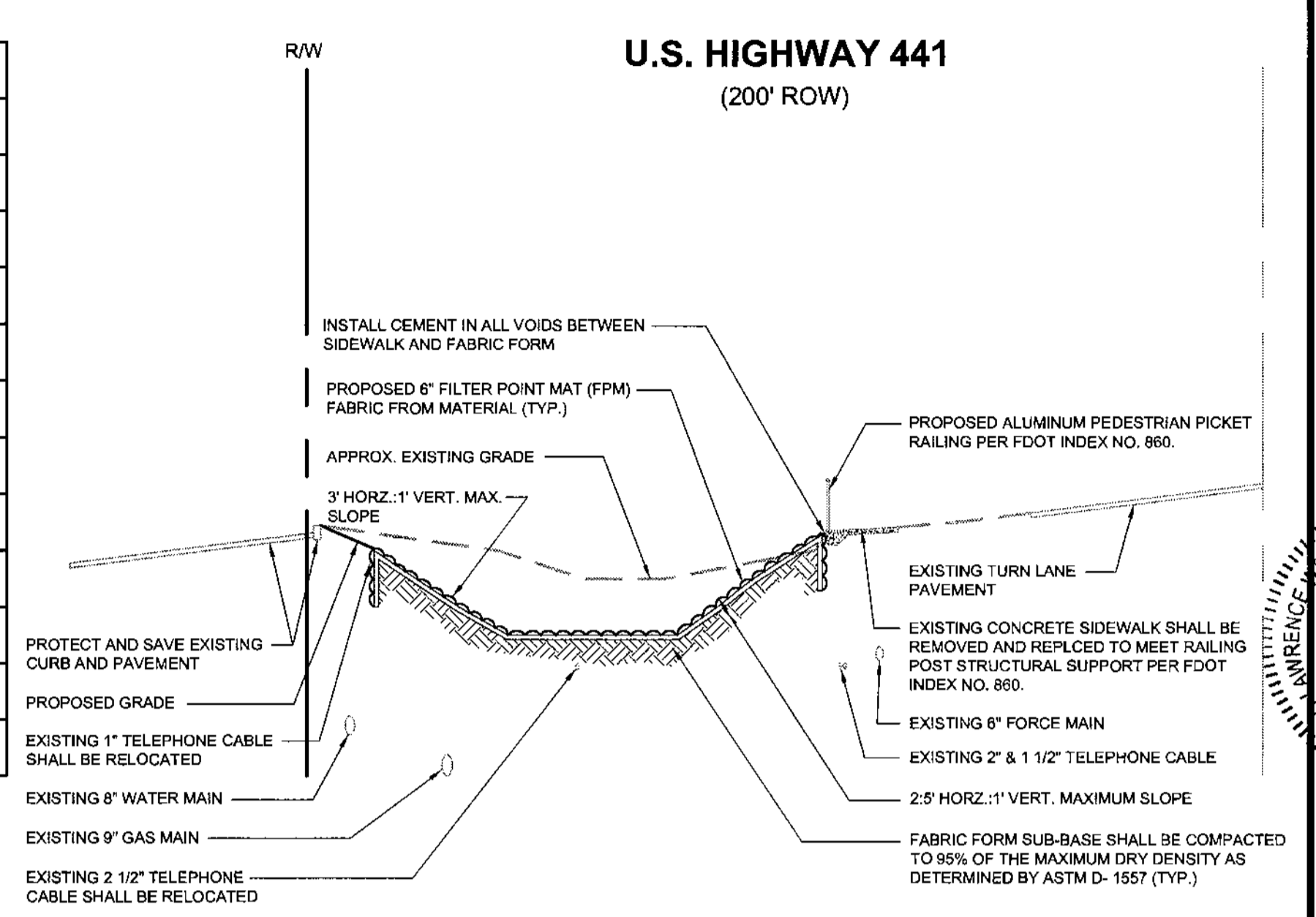
90
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SECTION "F"-"F"
SCALE: H. 1" = 10', V. 1" = 5'

90
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82
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74
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66

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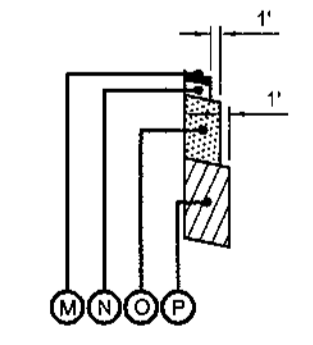


SECTION "G"-"G"
SCALE: H. 1" = 10', V. 1" = 5'

NOTE:
EXISTING UTILITIES THAT ARE NOT REQUIRED TO BE RELOCATED THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF THESE EXISTING UTILITIES AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE NO DAMAGE TO SAID UTILITIES.

FDOT PAVEMENT MATERIALS LEGEND

- PER FDOT STANDARD INDEX 514 OPTIONAL BASE GROUP 11
- (M) 1 1/2" FRICTION COURSE - 12.5
 - (N) 2" SUPERPAVE - 12.5
 - (O) 12" LIMEROCK BASE W/ LBR 100 OR 7" TYPE B-12.5
 - (P) 12" STABILIZED SUB-GRADE COMPACTED TO MINIMUM DENSITY OF 98% MODIFIED PROCTOR



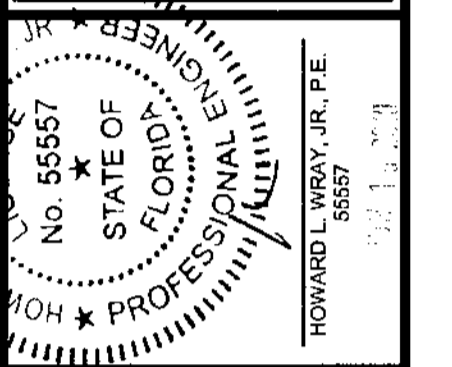
EDGE DETAIL



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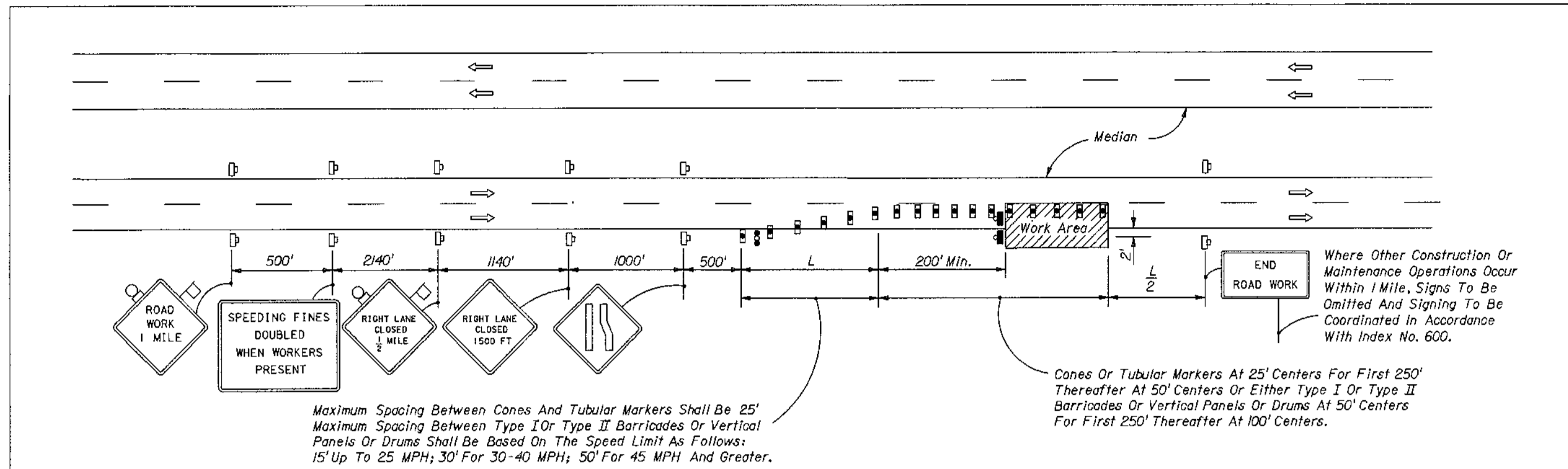
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Landscape Lic. No. LC0000298
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By	Date	Revision
J.K.B.	8/10/10	1
S.E.V.	4/20/08	2
G.D.		
H.L.W.		
AS NOTED		
1/23/06		
8/10/10		
W13392.1		
AS BUILT CORRECTIVE CROSS SECTION		

U.S. HIGHWAY 441 OFF-SITE ROADWAY CROSS SECTION SHEET

STORE NO. 3873-00, ALACHUA (SEC 1-75 & HWY 441), FLORIDA



Maximum Spacing Between Cones And Tubular Markers Shall Be 25'.
 Maximum Spacing Between Type I Or Type II Barricades Or Vertical Panels Or Drums Shall Be Based On The Speed Limit As Follows:
 15' Up To 25 MPH; 30' For 30-40 MPH; 50' For 45 MPH And Greater.

GENERAL NOTES

1. Work operations shall be confined to one traffic lane, leaving the adjacent lane open to traffic.
2. All vehicles, equipment, workers and their activities are restricted at all times to one side of the roadway.
3. The first two warning signs, each side, shall have an 18" x 18" (min.) orange flag and a Type B light attached and operating at all times.
4. All signs shall be post mounted if the closure time exceeds 12 hours.
5. On undivided highways the median signs as shown are to be omitted.
6. When work is performed in the median lane on divided highways the barricading plan is inverted and left lane closed and lane reduction signs substituted for the right lane closed and lane reduction signs.
7. Signs and traffic control devices are to be modified in accordance with INTERMITTENT WORK STOPPAGE details (sheet 2 of 2) when no work is being performed and the highway is open to traffic.
8. L (min.) = Length of taper in feet:
 - WS for speeds ≥ 45 mph
 - $\frac{WS^2}{60}$ for speeds ≤ 40 mph
 Where:
 W = Width of lateral transition in feet
 S = Posted speed limit (mph).
9. Arrows denote direction of traffic only and do not reflect pavement markings.
10. Longitudinal dimensions are to be adjusted to fit field conditions. See Index No. 600.
11. When work is being performed on a multilane undivided roadway the signs normally mounted in the median (as shown) shall be omitted.
12. When a side road intersects the highway on which work is being performed, additional traffic control devices shall be erected in accordance with other applicable TCZ indexes.
13. For general TCZ requirements and additional information refer to Index No. 600.

TYPICAL APPLICATIONS

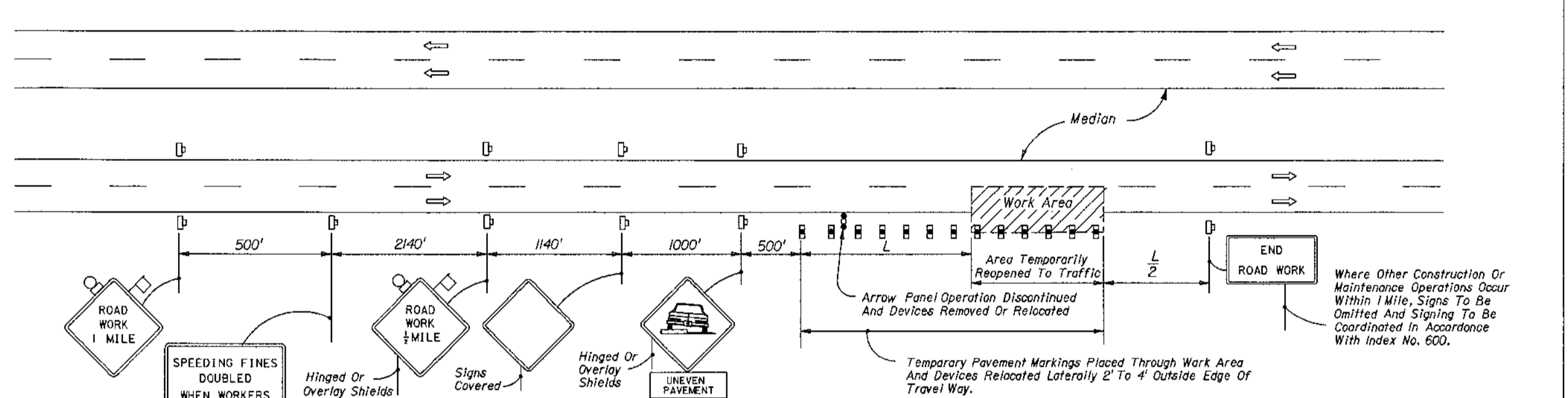
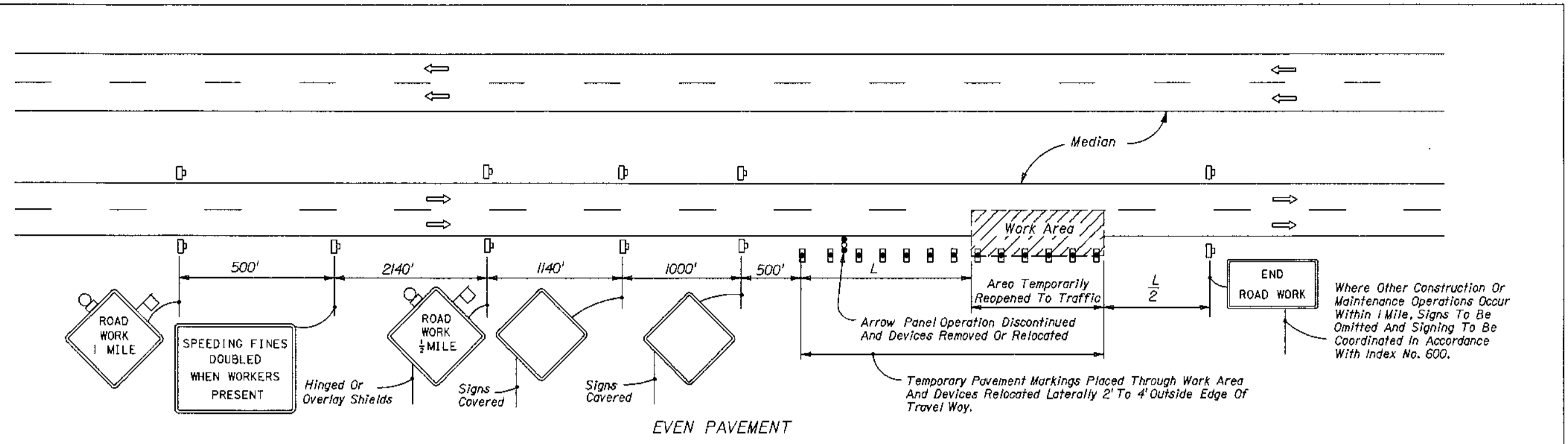
- Pavement Resurfacing
- Pavement Repair
- Utility Work
- Bridge Repair
- Guardrail Work

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRUCH ON THE LANE ADJACENT TO EITHER SHOULDER AND THE AREA 2' OUTSIDE THE EDGE OF TRAVEL WAY.

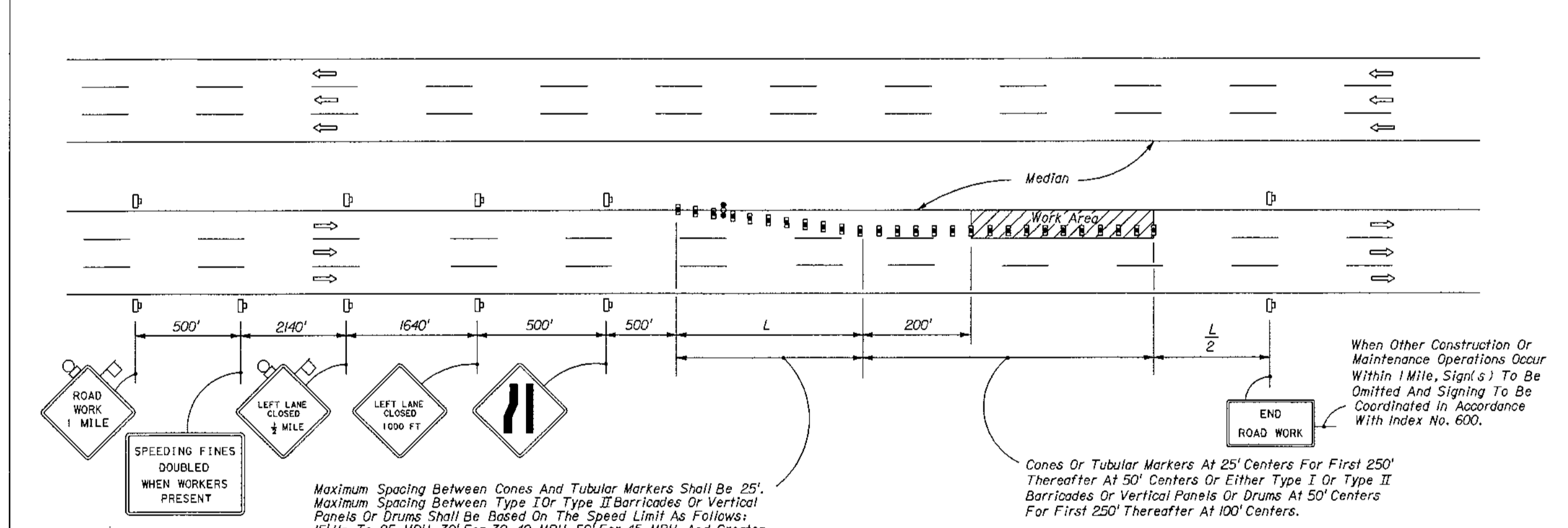
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			
TRAFFIC CONTROL THROUGH WORK ZONES			
MULTILANE, DIVIDED AND UNDIVIDED RURAL NIGHT OPERATIONS OR OPERATIONS EXCEEDING ONE DAYLIGHT PERIOD			
Designed by:	Drawn by:	Checked by:	Approved by:
DPW	DPW	DPW	DPW
Checked by:	DPW	DPW	DPW
1 of 2	613		

- SYMBOLS**
- Work Area
 - Sign With 18" x 18" (Min.) Orange Flag And Type B Light
 - Type I Or Type II Barricade Or Vertical Panel Or Drum (With Steady Burning Light At Night Only). (Tubular Markers May Be Used During Daylight Only. Cones May Be Used - See Index No. 600.)
 - Type I, Type II Or Type III Barricade Or Vertical Panel Or Drum (With Flashing Light)
 - Work Zone Sign
 - Advance Warning Arrow Panel



INTERMITTENT WORK STOPPAGE • RIGHT LANE REOPENED TO TRAFFIC • DAYTIME OR NIGHTTIME

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			
TRAFFIC CONTROL THROUGH WORK ZONES			
MULTILANE, DIVIDED AND UNDIVIDED RURAL NIGHT OPERATIONS OR OPERATIONS EXCEEDING ONE DAYLIGHT PERIOD			
Designed by:	Drawn by:	Checked by:	Approved by:
DPW	DPW	DPW	DPW
Checked by:	DPW	DPW	DPW
2 of 2	613		



Maximum Spacing Between Cones And Tubular Markers Shall Be 25'.
 Maximum Spacing Between Type I Or Type II Barricades Or Vertical Panels Or Drums Shall Be Based On The Speed Limit As Follows:
 15' Up To 25 MPH; 30' For 30-40 MPH; 50' For 45 MPH And Greater.

GENERAL NOTES

1. All vehicles, equipment, workers and their activities are restricted at all times to one side of the highway.
2. The first two warning signs, each side, shall have an 18" x 18" (min.) orange flag and a Type B light attached and operating at all times. Flashing arrow modes may be used for (Daylight Only) operations. Type B Lights and Orange Flags are not required.
3. All signs shall be post mounted if closure time exceeds 12 hours.
4. L (min.) = WS for speeds ≥ 45 mph
 - $\frac{WS^2}{60}$ for speeds ≤ 40 mph
 Where:
 W = Width of lateral transition in feet
 S = Posted speed limit (mph).
5. The LEFT LANE CLOSED and lane reduction signs are to be removed or fully covered when no work is being performed and the inside lane is open to traffic.
6. Advance warning arrow panels are required for both day and night operation. Either the right flashing arrow or the right sequential arrow modes may be used; the caution mode shall not be used.
7. Arrows denote direction of traffic only and do not reflect pavement markings.
8. Longitudinal dimensions are to be adjusted to fit field conditions. See Index No. 600.
9. When a side road intersects the highway on which work is being performed additional traffic control devices shall be erected in accordance with other applicable TCZ indexes.
10. For work performed in the outside lane refer to Index Nos. 612 and 613. For work performed in the center lane refer to Index No. 606.
11. For general TCZ requirements and additional information refer to Index No. 600.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES WILL ENCRUCH ON ANY PORTION OF THE INSIDE LANE OF A MULTILANE HIGHWAY.

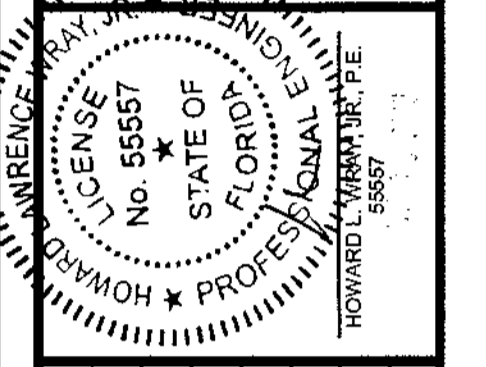
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			
TRAFFIC CONTROL THROUGH WORK ZONES			
MULTILANE DIVIDED RURAL			
Designed by:	Drawn by:	Checked by:	Approved by:
DPW	DPW	DPW	DPW
Checked by:	DPW	DPW	DPW
1 of 1	617		

- SYMBOLS**
- Work Area
 - Sign With 18" x 18" (Min.) Orange Flag And Type B Light
 - Type I Or Type II Barricade Or Vertical Panel Or Drum (With Steady Burning Light At Night Only). (Tubular Markers May Be Used During Daylight Only. Cones May Be Used - See Index No. 600.)
 - Work Zone Sign
 - Advance Warning Arrow Panel

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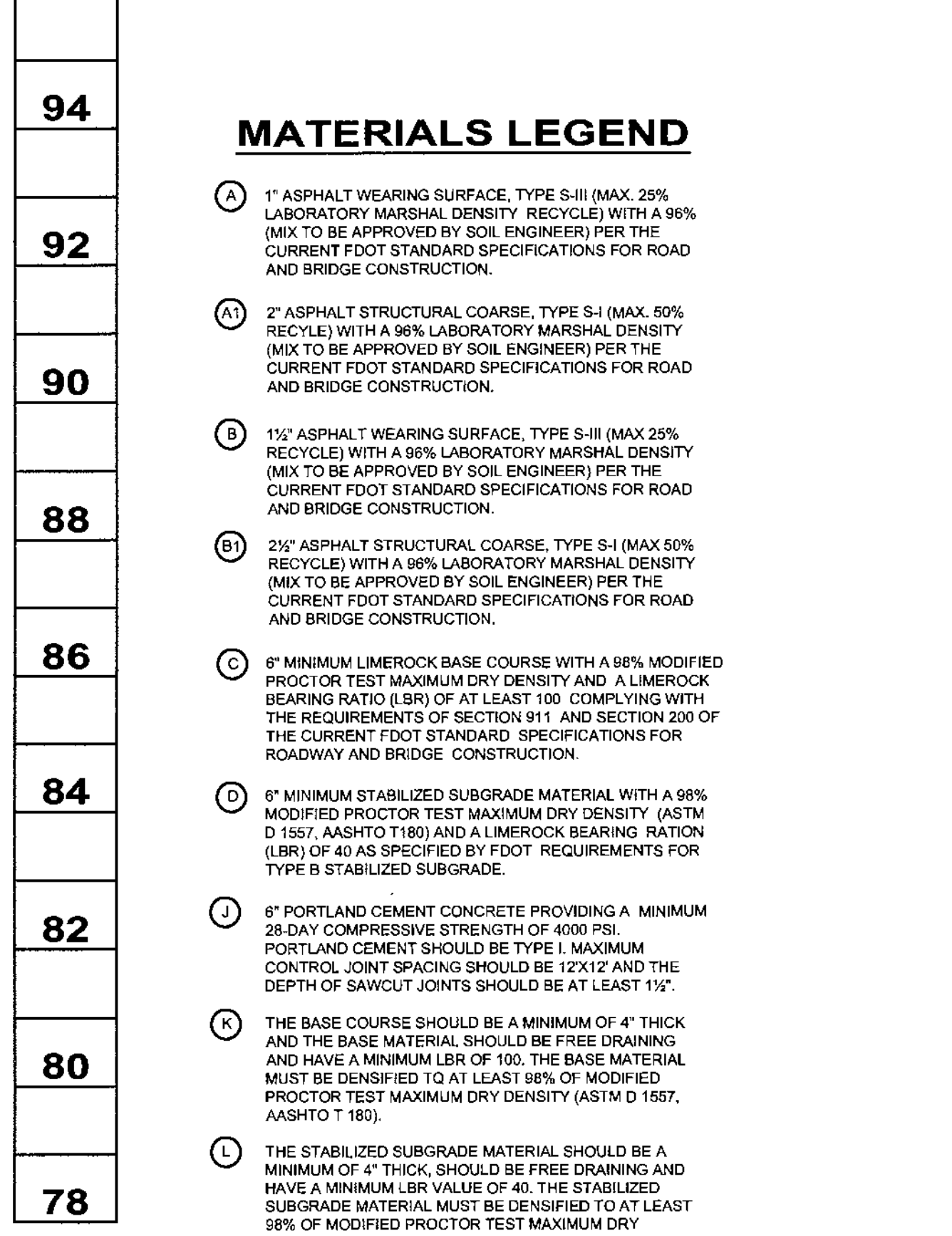
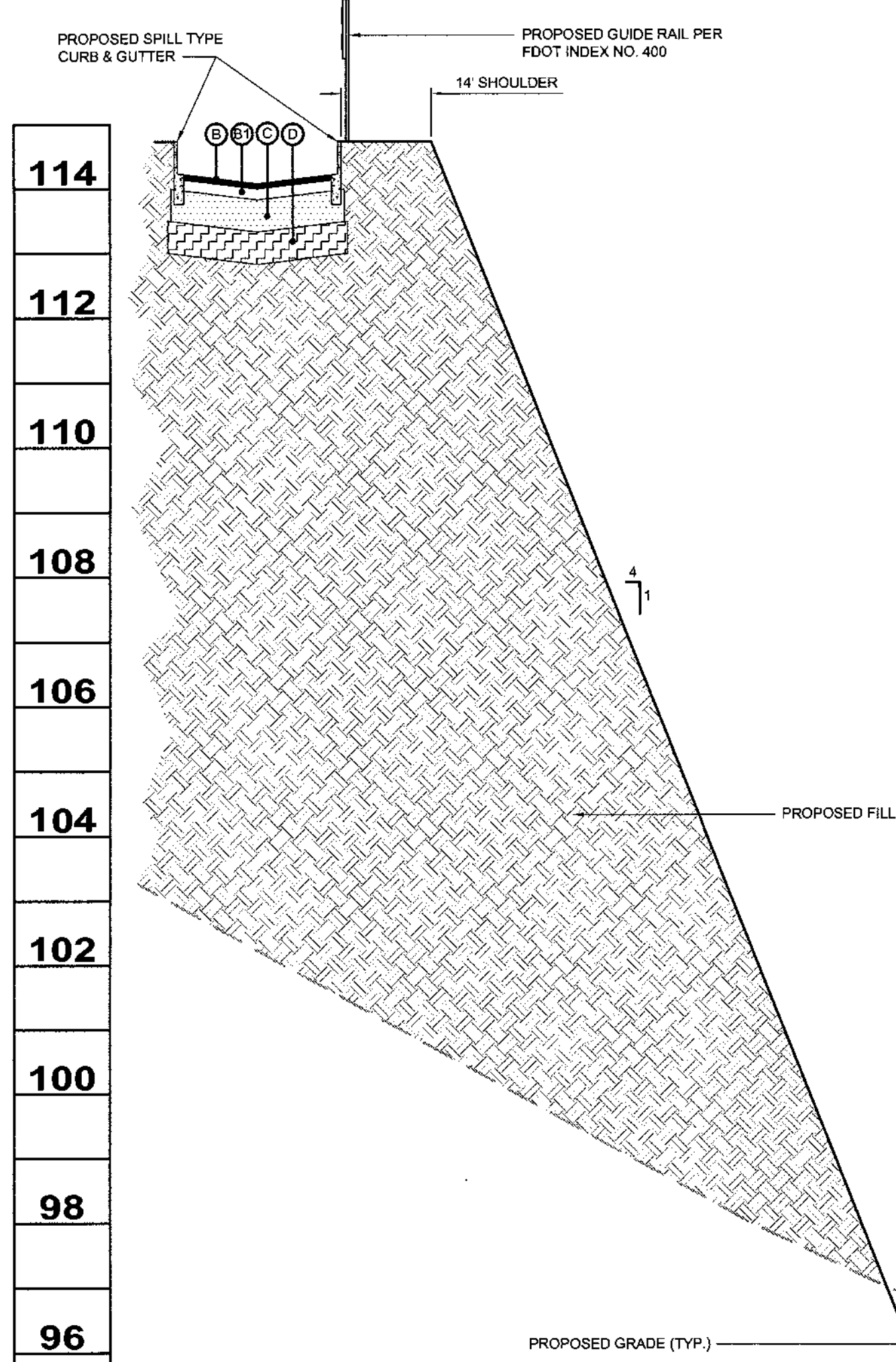
By	HLW
City	CITY SUBMITTAL
Date	6/18/10
No.	1
File	10441 OFFSITE

Designed by:	J.K.B.
Drawn by:	J.K.B.
Checked by:	J.M.D.
Approved by:	H.L.W.
Scale:	NONE
Date:	1/23/06
Job No.:	10441 OFFSITE
File:	10441 OFFSITE

U.S. HIGHWAY 441 OFF-SITE
 ROADWAY MOT DETAIL SHEET

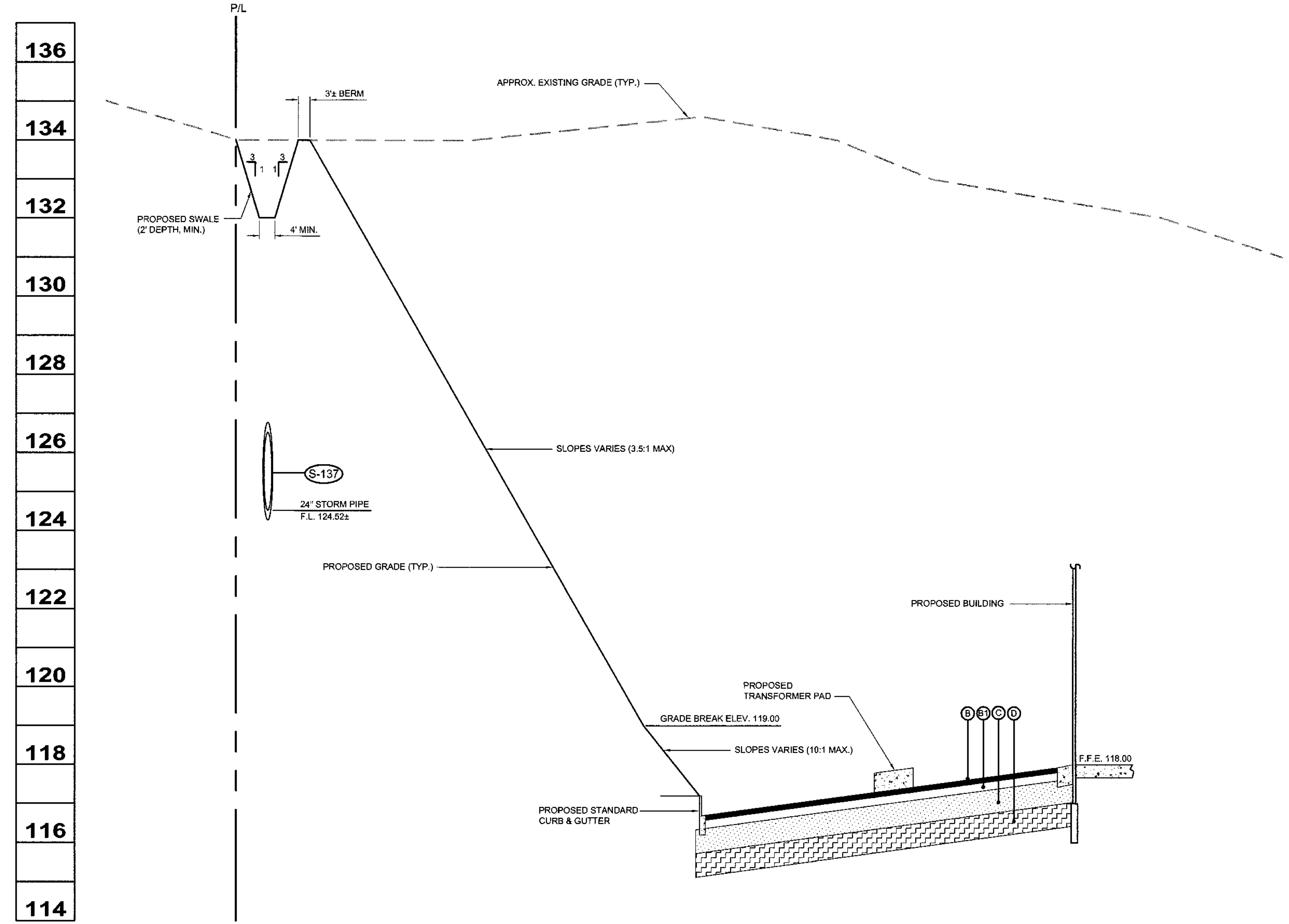
Walmart

STORE NO. 3873-00, ALACHUA, (SEC. 17.5 & HWY 441), FLORIDA

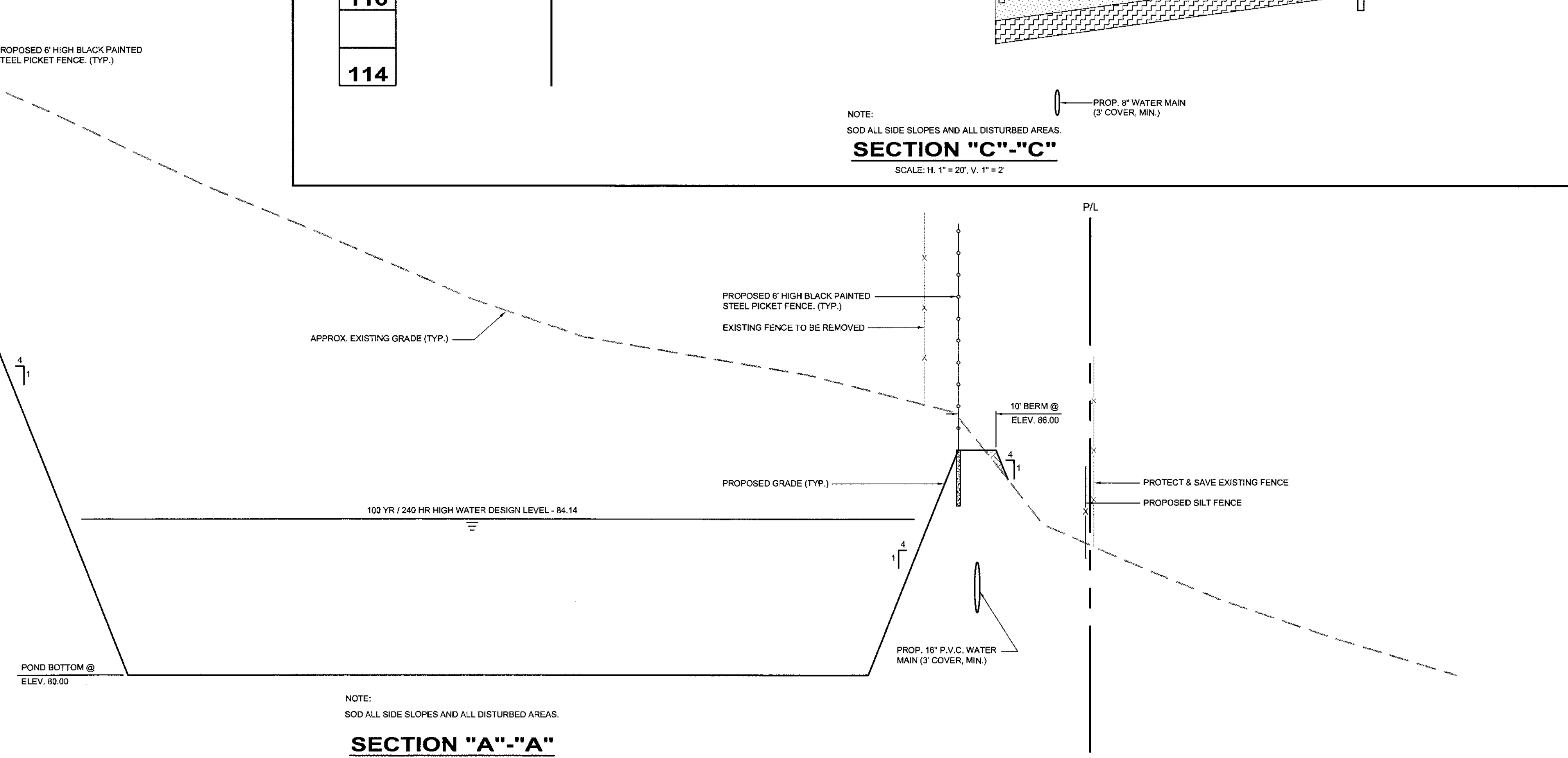


MATERIALS LEGEND

- (A) 1" ASPHALT WEARING SURFACE, TYPE S-III (MAX. 25% RECYCLE) WITH A 98% LABORATORY MARSHAL DENSITY (MIX TO BE APPROVED BY SOIL ENGINEER) PER THE CURRENT FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- (A1) 2" ASPHALT STRUCTURAL COARSE, TYPE S-4 (MAX. 50% RECYCLE) WITH A 98% LABORATORY MARSHAL DENSITY (MIX TO BE APPROVED BY SOIL ENGINEER) PER THE CURRENT FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- (B) 1 1/2" ASPHALT WEARING SURFACE, TYPE S-III (MAX. 25% RECYCLE) WITH A 98% LABORATORY MARSHAL DENSITY (MIX TO BE APPROVED BY SOIL ENGINEER) PER THE CURRENT FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- (B1) 2 1/2" ASPHALT STRUCTURAL COARSE, TYPE S-4 (MAX. 50% RECYCLE) WITH A 98% LABORATORY MARSHAL DENSITY (MIX TO BE APPROVED BY SOIL ENGINEER) PER THE CURRENT FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- (C) 6" MINIMUM LIMEROCK BASE COURSE WITH A 98% MODIFIED PROCTOR TEST MAXIMUM DRY DENSITY AND A LIMEROCK BEARING RATIO (LBR) OF AT LEAST 100 COMPLYING WITH THE REQUIREMENTS OF SECTION 911 AND SECTION 200 OF THE CURRENT FDOT STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION.
- (D) 6" MINIMUM STABILIZED SUBGRADE MATERIAL WITH A 98% MODIFIED PROCTOR TEST MAXIMUM DRY DENSITY (ASTM D 1557, AASHTO T 190) AND A LIMEROCK BEARING RATIO (LBR) OF 40 AS SPECIFIED BY FDOT REQUIREMENTS FOR TYPE B STABILIZED SUBGRADE.
- (J) 6" PORTLAND CEMENT CONCRETE PROVIDING A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI. PORTLAND CEMENT SHOULD BE TYPE I. MAXIMUM CONTROL JOINT SPACING SHOULD BE 12X1/2" AND THE DEPTH OF SAWCUT JOINTS SHOULD BE AT LEAST 1 1/2".
- (K) THE BASE COURSE SHOULD BE A MINIMUM OF 4" THICK AND THE BASE MATERIAL SHOULD BE FREE DRAINING AND HAVE A MINIMUM LBR OF 100. THE BASE MATERIAL MUST BE DESIGNED TO AT LEAST 98% OF MODIFIED PROCTOR TEST MAXIMUM DRY DENSITY (ASTM D 1557, AASHTO T 190).
- (L) THE STABILIZED SUBGRADE MATERIAL SHOULD BE A MINIMUM OF 4" THICK, SHOULD BE FREE DRAINING AND HAVE A MINIMUM LBR VALUE OF 40. THE STABILIZED SUBGRADE MATERIAL MUST BE DESIGNED TO AT LEAST 98% OF MODIFIED PROCTOR TEST MAXIMUM DRY DENSITY (ASTM D 1557, AASHTO T 190).



NOTE:
SOD ALL SIDE SLOPES AND ALL DISTURBED AREAS.
SECTION "C"-"C"
SCALE: H. 1" = 20', V. 1" = 2'

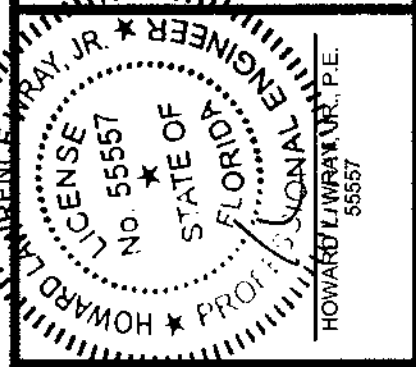


NOTE:
SOD ALL SIDE SLOPES AND ALL DISTURBED AREAS.
SECTION "A"-"A"
SCALE: H. 1" = 20', V. 1" = 2'

gph
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Eng. C.O.A. No. 3215
Survey L.B. No. 7143
Arch. Lic. No. AA2600926
Landscape Lic. No. LC0000298
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Designed by:	Drawn by:	Checked by:	Approved by:	Scale:	Date:	Job No.:	File:
J.K.B.	C.D.P.	G.D.	H.L.W.	AS NOTED	9/09/09	W13392.1	

No.	Date	By	Revision

SECTIONS SHEET

Walmart

STORE NO. 3873-00, ALACHUA (SEC. I-75 & HWY 441), FLORIDA

Sheet No.
C-11

PIPE RESTRAINT FOR PVC PIPE (C-400/C-405 DR 18)
MINIMUM RESTRAINT LENGTH (FT) - EACH SIDE OF FITTING

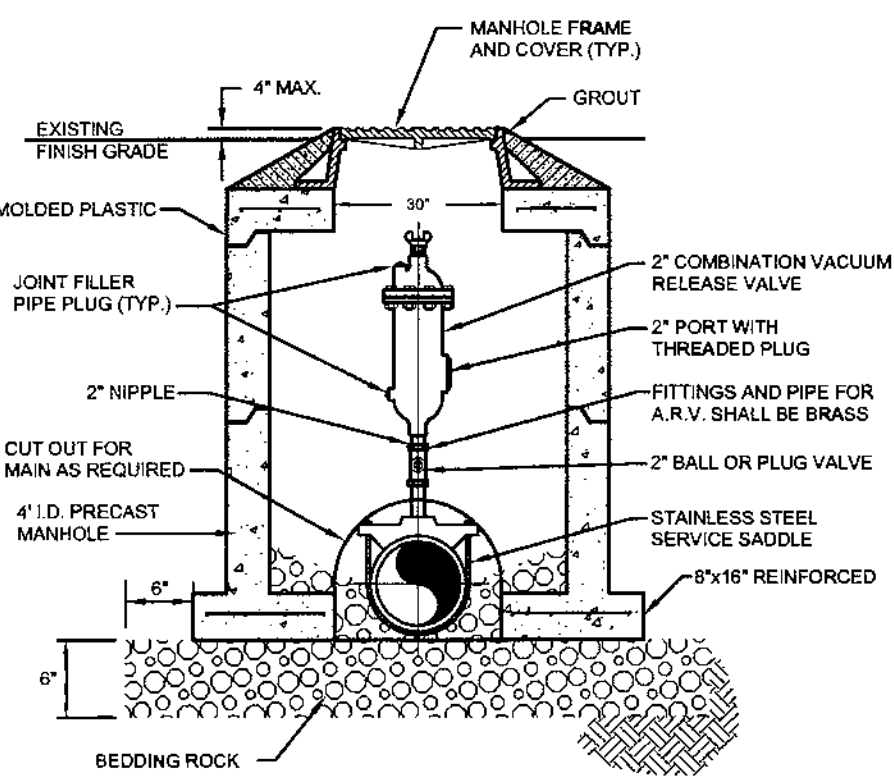
FITTING TYPE	PIPE SIZE - INCHES										
	4	6	8	10	12	14	16	18	20	24	30
VERT. UP OR HORIZ	2	3	4	5	6	7	8	9	10	12	15
11-1/4 BEND	2	3	4	5	6	7	8	9	10	12	15
22-1/2 BEND	6	8	10	12	14	16	18	20	24	30	36
45 BEND	10	13	17	21	24	27	30	33	36	41	48
90 BEND	23	32	42	56	68	83	100	120	144	180	216
VERTICAL DOWN											
11-1/4 BEND	6	8	10	12	14	16	18	20	24	30	36
22-1/2 BEND	11	16	20	24	28	32	36	40	43	50	60
45 BEND	23	32	42	51	61	71	81	91	101	115	135
90 BEND	56	78	102	122	143	163	182	201	219	253	288
BRANCH OF TEE	20	41	63	85	103	128	141	159	177	210	240
DEAD END	36	73	102	122	143	163	182	201	219	253	288
REDUCERS											
SIZE	6X4	6X4	6X6	6X6	6X8	6X8	6X10	6X10	6X12	6X12	6X18
RESTRAINT LENGTH	41	74	43	78	41	109	77	42	133	158	158
SIZE	10X6	10X8	10X12	10X8	10X12	10X16	10X12	10X16	10X20	10X16	10X16
RESTRAINT LENGTH	189	137	79	163	111	41	141	78	194	162	162

PIPE RESTRAINT FOR D.I. PIPE
MINIMUM RESTRAINT LENGTH (FT) - EACH SIDE OF FITTING

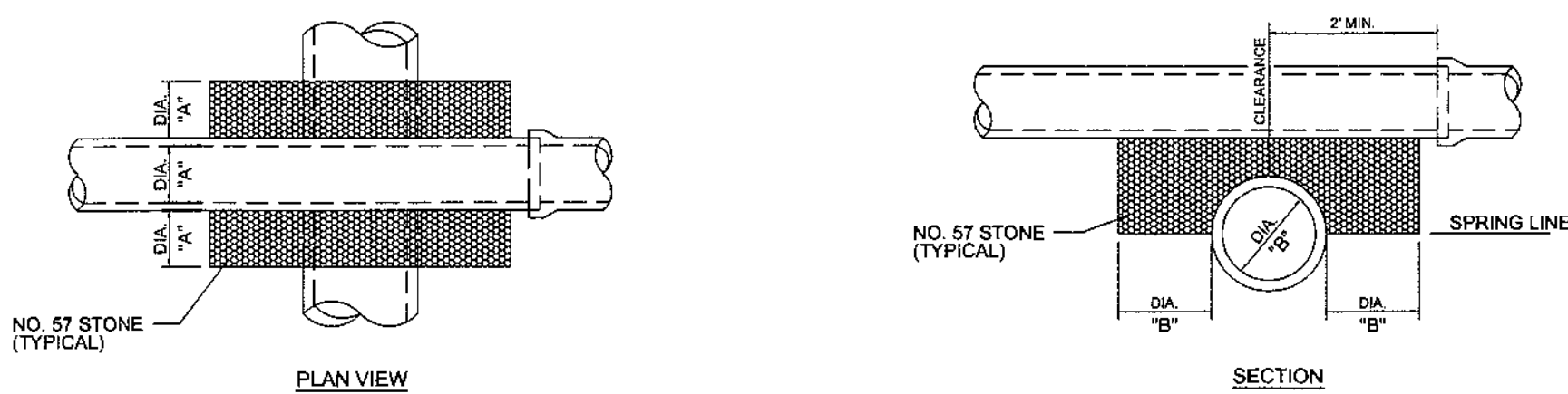
FITTING TYPE	PIPE SIZE - INCHES										
	4	6	8	10	12	14	16	18	20	24	30
VERT. UP OR HORIZ	2	3	4	4	5	6	6	7	8	9	10
11-1/4 BEND	2	3	4	4	5	6	6	7	8	9	10
22-1/2 BEND	4	6	7	9	10	12	13	14	16	19	21
45 BEND	8	12	15	18	21	24	27	30	32	37	44
90 BEND	20	28	37	44	52	59	65	72	78	90	106
VERTICAL DOWN											
11-1/4 BEND	4	6	8	9	11	12	14	15	17	18	23
22-1/2 BEND	8	12	15	18	22	25	28	31	34	38	46
45 BEND	17	25	32	38	45	52	58	64	70	82	97
90 BEND	42	60	77	94	109	125	140	155	169	197	234
BRANCH OF TEE	15	21	28	34	40	46	51	56	61	70	84
DEAD END	32	40	52	64	77	94	109	125	140	155	189
REDUCERS											
SIZE	6X4	6X4	6X6	6X6	6X8	6X8	6X10	6X10	6X12	6X12	6X18
RESTRAINT LENGTH	31	67	33	65	32	62	59	32	103	84	159
SIZE	10X12	10X12	10X16	10X12	10X16	10X20	10X16	10X20	10X24	10X20	10X24
RESTRAINT LENGTH	69	66	32	106	60	159	110	132	161	130	207

- NOTES
1. INCREASE RESTRAINT LENGTH WHEN TEST PRESSURES EXCEED 150 PSI
 2. RESTRAINT LENGTH BASED ON USING DUCTILE IRON FITTINGS
 3. RESTRAINT LENGTHS SHOWN ARE BASED ON LAYING CONDITION 3, AND MINIMUM COVER OF 3 FT.
 4. RESTRAINT LENGTH BASED ON SAND SILT SOILS, INT. FRICTION ANGLE = 30, DENSITY = 90 PCF
 5. PIPE TO SOIL FRICTION RATIO OF 0.6 (PVC), 0.75 (D.I.) PIPE TO SOIL COHESION RATIO OF 0 (PVC AND D.I.)
 6. ADJUST RESTRAINT LENGTHS FOR DIFFERENT SOIL TYPES
 7. INCREASE OR RESTRAINT LENGTH WHEN USING POLYETHYLENE ENCASUREMENT
 8. TEE RESTRAINT IS BASED ON A MAXIMUM DISTANCE BETWEEN FIRST JOINTS OF 20 FEET. SHOULD THIS DISTANCE INCREASE, DECREASE THE RESTRAINT LENGTH
 9. TEE RESTRAINT SHOWN IS FOR NON-REDUCING TEES. FOR REDUCING TEES, THE RESTRAINT LENGTH OF THE BRANCH SHALL BE EITHER THE LENGTH BASED ON THE DIAMETER OF THE RUN OF THE TEE OR THE LENGTH REQUIRED FOR A REDUCER FITTING, WHICHEVER IS GREATER.
 10. ALL PROPOSED REVISIONS TO THE ABOVE SHALL BE APPROVED BY THE ENGINEER.
 11. THE SAFETY FACTOR UTILIZED FOR THE ABOVE TABLE IS 1.5.

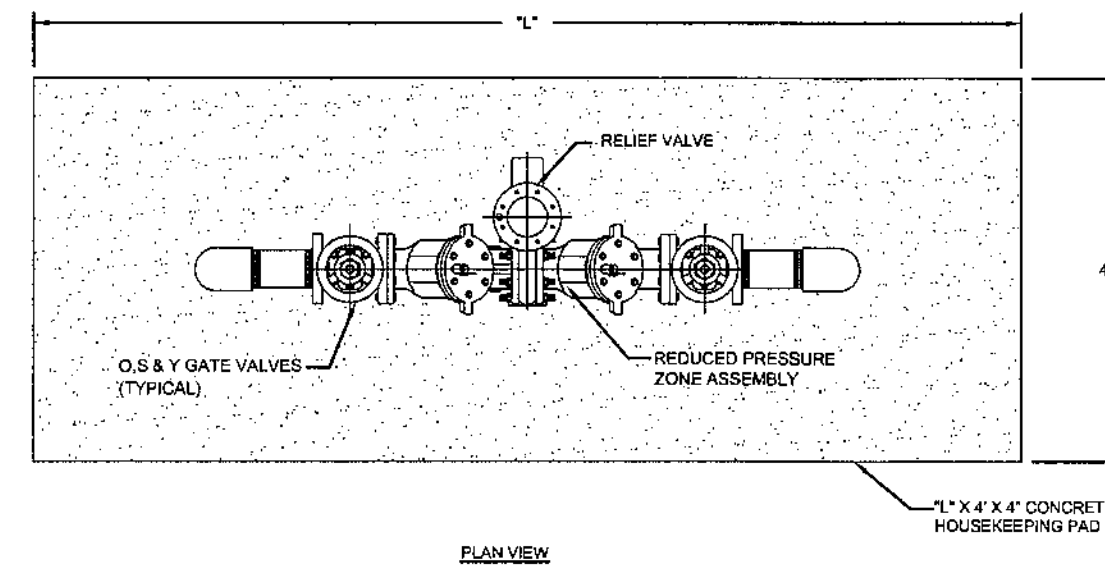
RESTRAINT JOINT TABLE



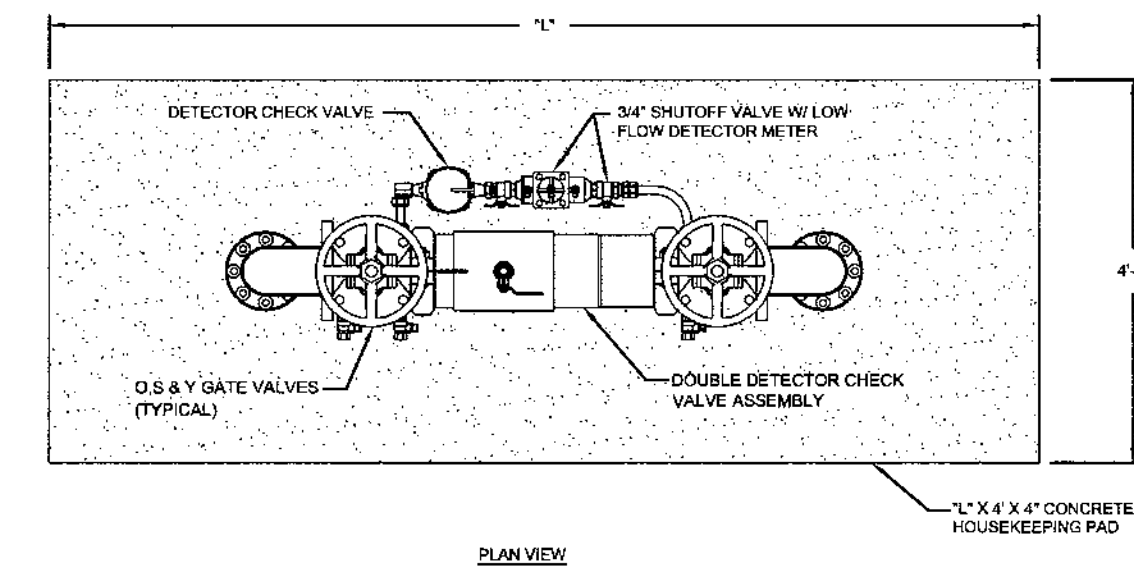
AIR RELEASE VALVE DETAIL
N.T.S.



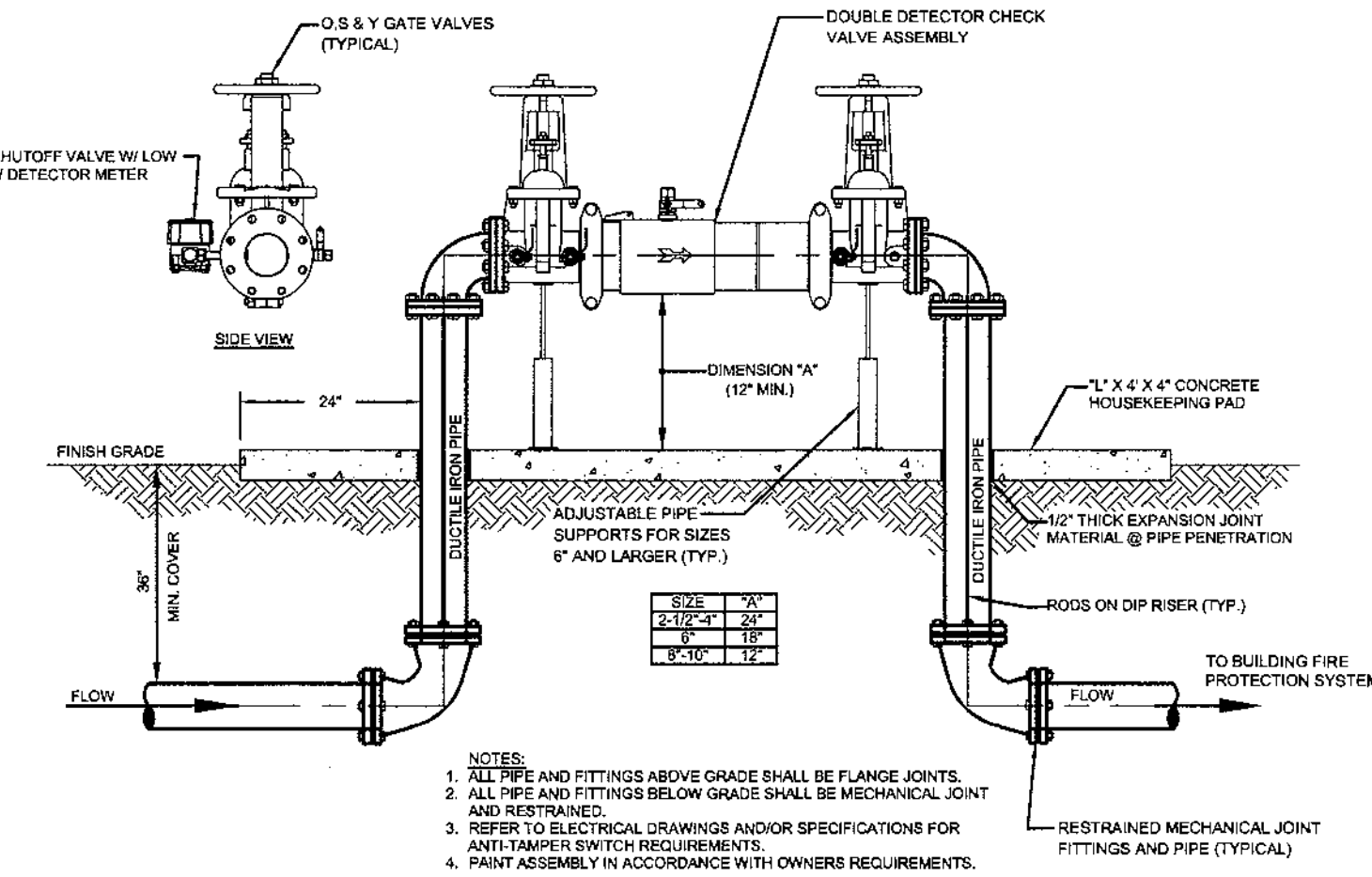
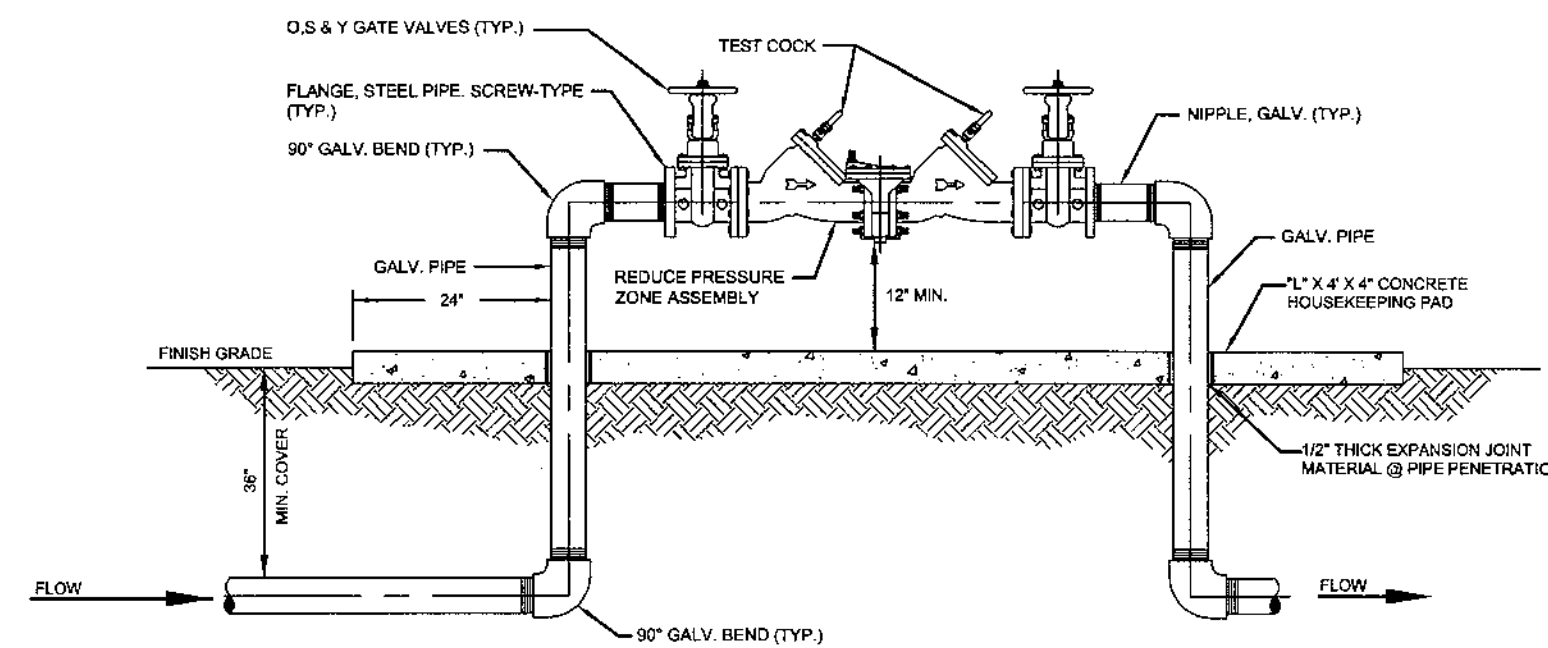
PIPE CROSSING DETAIL
(FOR LESS THAN 12" CLEARANCE)



WATTS 909 REDUCED PRESSURE ZONE ASSEMBLY



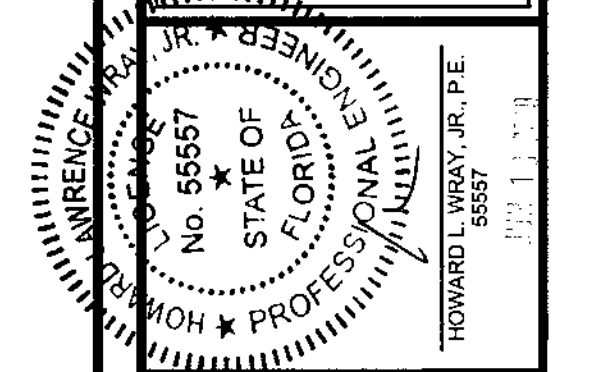
AMES 3000SS DOUBLE CHECK DETECTOR ASSEMBLY



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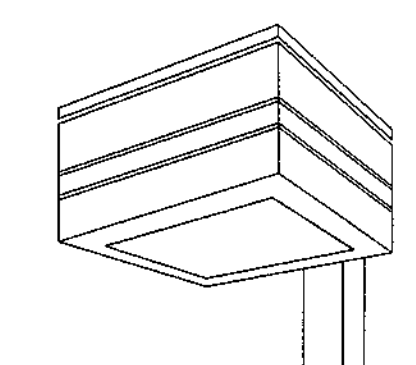
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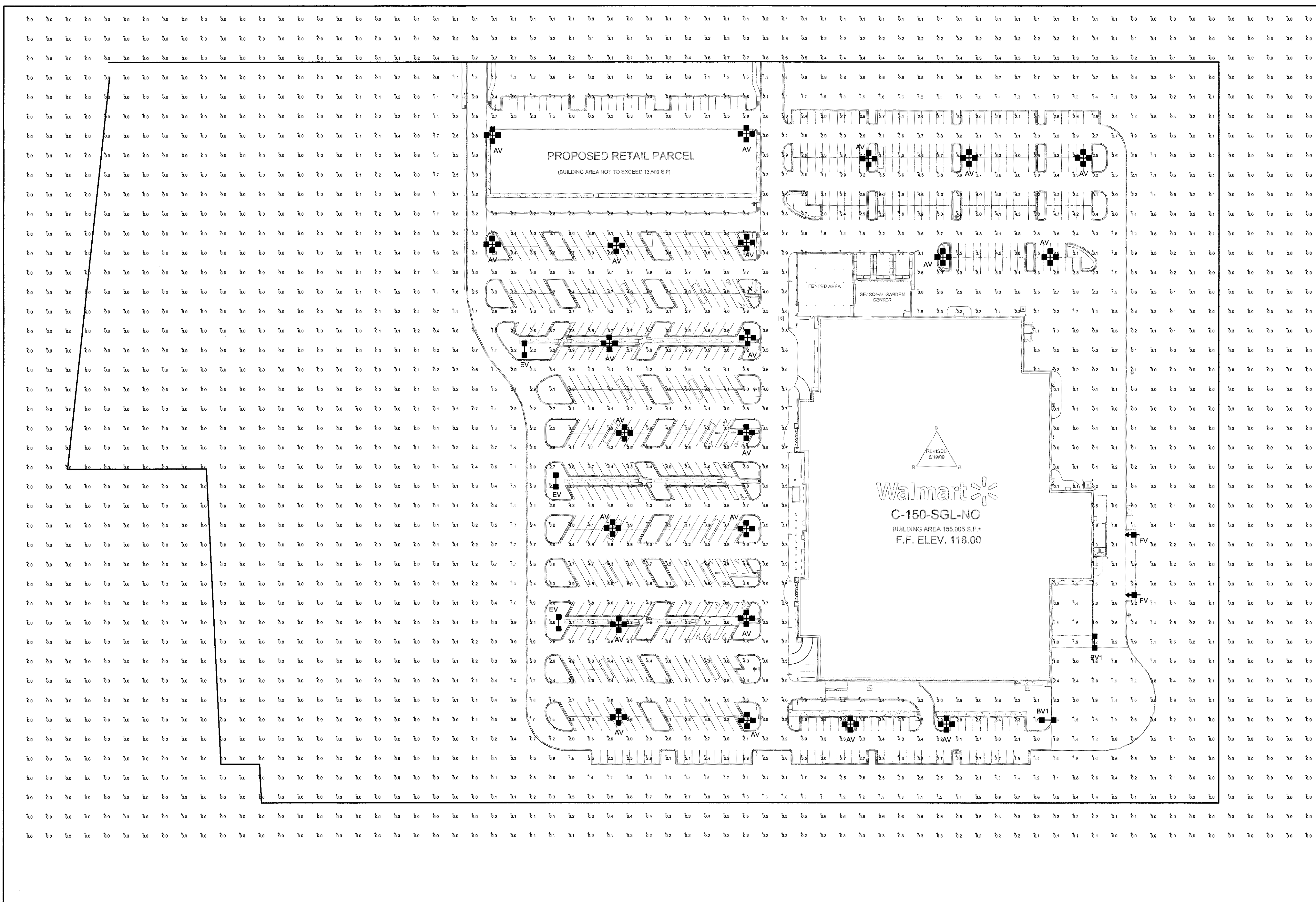
Designed by:	J.K.B.	Checked by:	J.K.B.	Approved by:	H.L.W.	Scale:	NONE	Date:	1/23/06	Job No.:	W13392.1	Date:	6/16/10	No.:	1	File:	CITY SUBMITTAL

UTILITY DETAIL SHEET

STORE NO. 3873-00, ALACHUA (SEC. 175 & HWY 441), FLORIDA



GREENBRIAR FLAT LENS IESNA FULL CUTOFF



Symbol	Qty	Label	Arrangement	Total Lumens	LLF	Description	Total Watts
AV	22	AV	4 @ 90 DEGREES	176000	0.720	GFR 5 400 PSMV F 39' POLE 3' BASE	1816
BV1	2	BV1	D180	88000	0.720	GFR 5 400 PSMV F 39' POLE 3' BASE	908
EV	3	EV	ROTATED 2 IN 50	88000	0.720	GFR-2-400-PSMV-F 39' POLE 3' BASE	904
FV	2	FV	SINGLE	44000	0.720	GFR-3-400-PSMV-F-HSS 39' POLE 3'BASE	455

Maintained Footcandle levels at grade.

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
FRONT DRIVE SUMMARY	Illuminance	Fc	3.49	4.0	2.7	1.29	1.48
MAIN LOT SUMMARY	Illuminance	Fc	3.53	5.0	1.9	1.86	2.63

Total Project Watts
Total Watts = 45360

Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine applicability of the layout to existing or future field conditions.

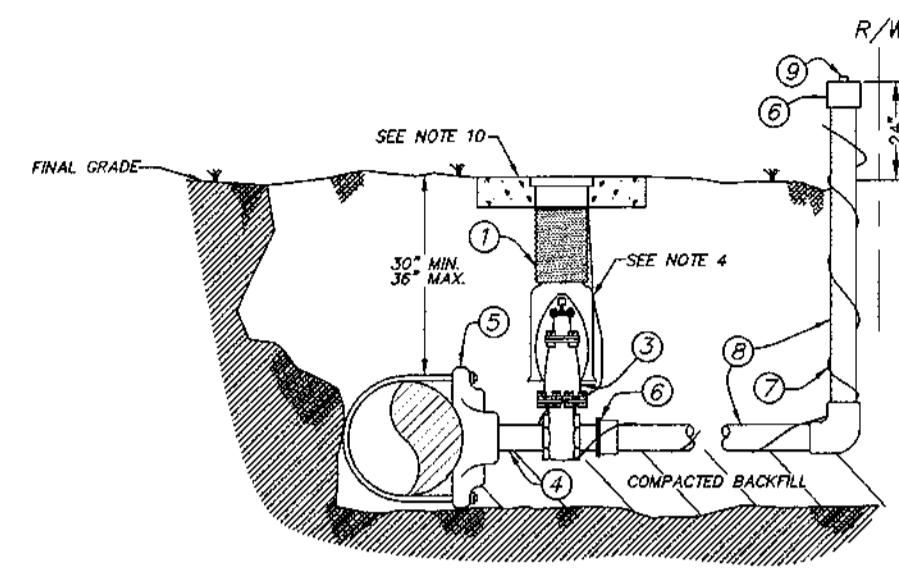
This lighting pattern represents illumination levels calculated from laboratory data taken under controlled conditions utilizing current industry standard lumen ratings in accordance with Illuminating Engineering Society approved methods. Actual performance of any manufacturer's luminaire may vary due to variation in electrical voltage, tolerance in lamps and other variable field conditions. Calculations do not include obstructions such as buildings, curbs, landscaping, or any other architectural elements unless noted.

leji INDUSTRIES
WAL-MART STORE #3873
ALACHUA, FL

LIGHTING PROPOSAL FOR

SCALE: 1"=60'
DATE: 02/21/10
BY: VJM

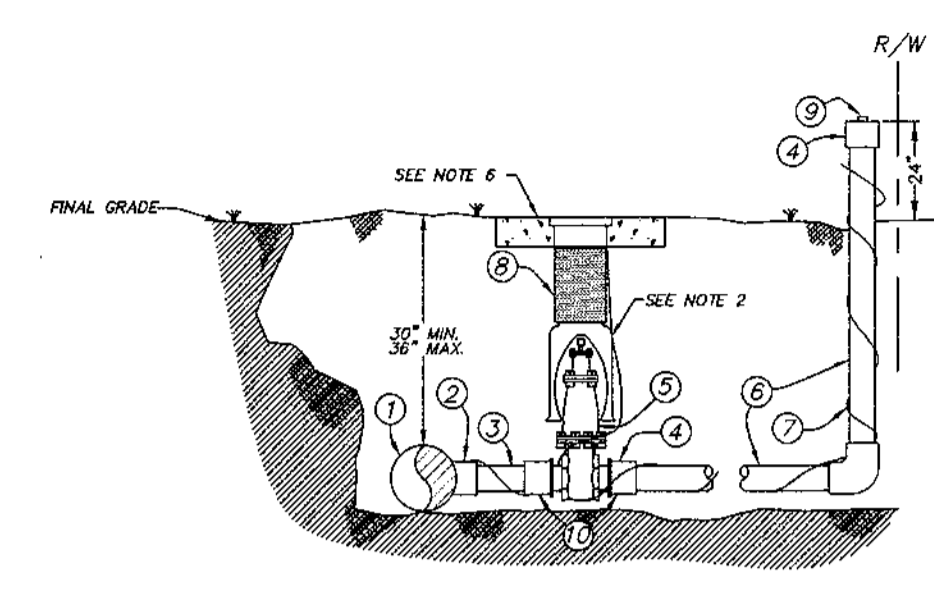
LO-79712-12
SHEET OF 1



MATERIALS		
ITEM	QUANT.	DESCRIPTION
1	1	BOX VALVE (SCREW TYPE)
2	1	4 1/2" x 6" PIPE, PVC (SCH 80-18) OR O.P. (CLASS 50)
3	2	2" VALVE GATE W/2" SQ. OPERATING NUT
4	2	2"x2-1/2" NIPPLE, BRASS
5	1	4 1/2" x 6" SADDLE SERVICE (I.P. THREADS)
6	2	2" ADAPTER, PVC (SCH 80/SLIP x F.P.T.)
7	1	#10 U.F. WIRE, COPPER, INSULATED
8	1	PIPE, PVC (SCH 80)
9	1	2" PLUG, THREADED (W/TEFLON TAPE)

- NOTES:
- 2" GATE VALVES SHALL BE CAST IRON RESILIENT SEAT WITH 2" OPERATOR NUT.
 - THE WIRE SHALL BE SPIRALED AROUND THE TUBING, TAPED EVERY TEN FEET AND TIED TO THE MAIN LINE WIRE.
 - A VALVE BOX SHALL BE REQUIRED ON ALL GATE VALVES.
 - THE TRACER WIRE MUST BE TAPED TO THE EXTERIOR OF THE VALVE BOX AND EXIT BETWEEN THE BOX AND CONCRETE PAD.
 - SERVICE SADDLES SHALL BE INSTALLED ON ALL TAPS TO PVC (OR 18) WATER MAINS.
 - SERVICE SADDLES MAY BE ELIMINATED ON TAPS TO DUCTILE IRON PIPE.
 - NO WATER MAIN SHALL BE INSTALLED WITHIN 10 FEET OF ANY BUILDING.
 - INSTALL 5" PVC (SCH 40) CASING UNDER ROADWAYS. EXTEND BUILDING 5' PAST THE BACK OF CURB.
 - ALL PVC FITTINGS SHALL BE SCHEDULE 80. NO EXCEPTIONS WILL BE ALLOWED.
 - THE VALVE BOX SHALL BE SET AT FINAL GRADE WITH A MINIMUM 24" x 24" x 4" THICK CONCRETE SLAB POURED LEVEL TO FINAL GRADE AND MUST HAVE A BRASS TAG, SET IN THE CONCRETE PAD, LABELING VALVE SIZE, ROTATION AND NUMBER OF TURNS.
 - ALL BRASS NIPPLES AND THREADED FITTINGS ARE TO BE SEALED USING TEFLON TAPE AND PTFE PIPE JOINT COMPOUND.

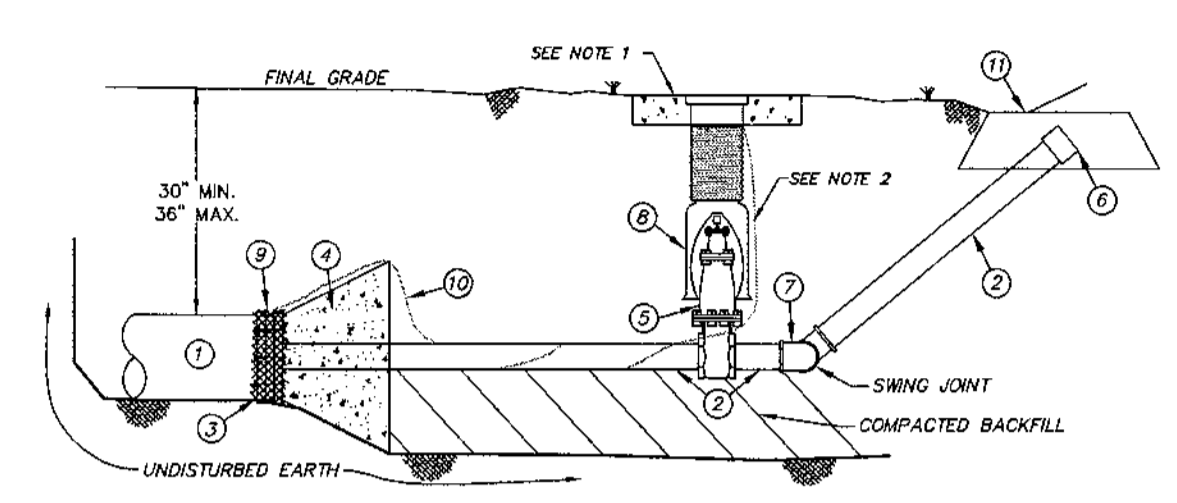
SERVICE LATERAL PVC (SCHEDULE 80)
NTS



MATERIALS		
ITEM	QUANT.	DESCRIPTION
1	1	PIPE, PVC (SCH 40)
2	1	TEL, PVC (SCH 40)
3	1	2" NIPPLE, PVC (SCH 40, 1/2" LENGTH)
4	3	2" ADAPTER, PVC (SCH 40, SLIP x F.P.T.)
5	2	2" VALVE GATE W/2" SQ. OPERATING NUT
6	1	PIPE, PVC (SCH 40)
7	1	#14 U.F. WIRE, COPPER, INSULATED
8	1	BOX VALVE (SCREW TYPE)
9	1	2" PLUG, THREADED (W/TEFLON TAPE)
10	2	2"x2-1/2" NIPPLE, BRASS

- NOTES:
- A VALVE BOX SHALL BE REQUIRED ON ALL GATE VALVES.
 - THE TRACER WIRE MUST BE TAPED TO THE EXTERIOR OF THE VALVE BOX AND EXIT BETWEEN THE BOX AND CONCRETE PAD.
 - THE WIRE SHALL BE SPIRALED AROUND THE TUBING, TAPED EVERY TEN FEET AND TIED TO THE MAIN LINE WIRE.
 - 2" GATE VALVES SHALL BE CAST IRON RESILIENT SEAT WITH 2" OPERATOR NUT.
 - PVC FITTINGS SHALL BE SCHEDULE 40 EXCEPT THAT THREADED FITTINGS SHALL BE SCHEDULE 80. FITTINGS (EXCEPT FOR THREADED FITTINGS) SHALL BE SOLVENT WELDED USING GATNEY NO. 30757 PURPLE PRIMER AND GATNEY NO. 50863 MEDIUM PVC CEMENT WITH NO SUBSTITUTES ALLOWED.
 - THE VALVE BOX SHALL BE SET AT FINAL GRADE WITH A MINIMUM 24" x 24" x 4" THICK CONCRETE SLAB POURED LEVEL TO FINAL GRADE AND MUST HAVE A BRASS TAG, SET IN THE CONCRETE PAD, LABELING VALVE SIZE, ROTATION AND NUMBER OF TURNS.
 - ALL BRASS NIPPLES AND THREADED FITTINGS ARE TO BE SEALED USING TEFLON TAPE AND PTFE PIPE JOINT COMPOUND.

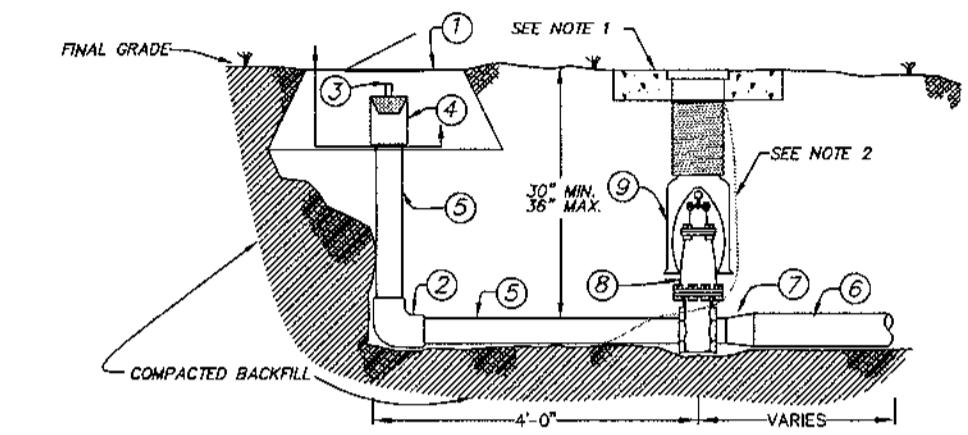
SERVICE LATERAL PVC (SCHEDULE 40)
NTS



MATERIALS		
ITEM	QUANT.	DESCRIPTION
1	1	6", 8" PIPE, D.I. OR PVC (DR-18)
2	3	3"x18" MIN PIPE, GALV.
3	1	6", 8" x 3" CAP OR PLUG, C.I. (TAPPED)
4	1	2500 PSI CONCRETE, THRUST BLOCK
5	1	3" VALVE GATE W/2" SQ. OPERATION NUT
6	1	3" CAP, GALV.
7	2	3"x90" BEND, GALV.
8	1	BOX VALVE
9	1	WISQUEEN OR FELT
10	1	#10 U.F. WIRE, COPPER, INSULATED
11	1	5/8"x3/4" BOX, (WATER METER)

- NOTES:
- THE VALVE BOX SHALL BE SET AT FINAL GRADE WITH A MINIMUM 24" x 24" x 4" THICK CONCRETE SLAB POURED LEVEL TO FINAL GRADE AND MUST HAVE A BRASS TAG, SET IN THE CONCRETE PAD, LABELING VALVE SIZE, ROTATION AND NUMBER OF TURNS.
 - THE TRACER WIRE MUST BE TAPED TO THE EXTERIOR OF THE VALVE BOX AND EXIT BETWEEN THE BOX AND CONCRETE PAD.
 - A NONPOROUS MATERIAL SHALL BE PLACED AROUND THE ENTIRE FITTING TO PROTECT THE BOLTS FROM THE CONCRETE.

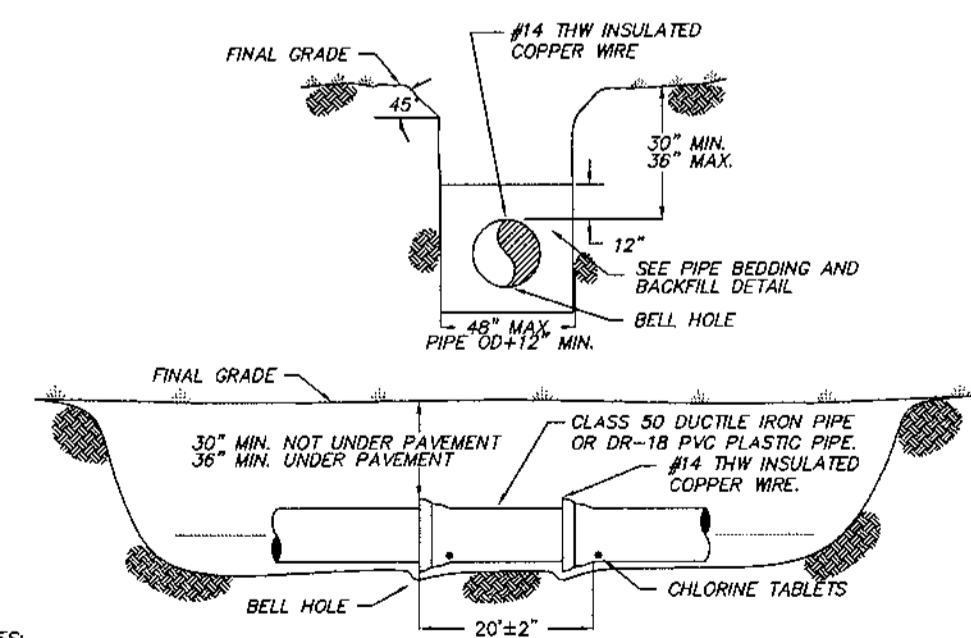
3" BLOW-OFF
NTS



MATERIALS		
ITEM	QUANT.	DESCRIPTION
1	1	5/8" x 3/4" BOX, (WATER METER)
2	1	2" x 80' ELBOW, GALVANIZED
3	1	2" PLUG, GALVANIZED
4	1	2" COUPLING, GALVANIZED
5	1	2" PIPE, GALVANIZED
6	1	4" PIPE (DR 18)
7	1	4"x2" REDUCER
8	1	2" VALVE GATE W/2" SQ. OPERATING NUT
9	1	BOX VALVE, C.I.

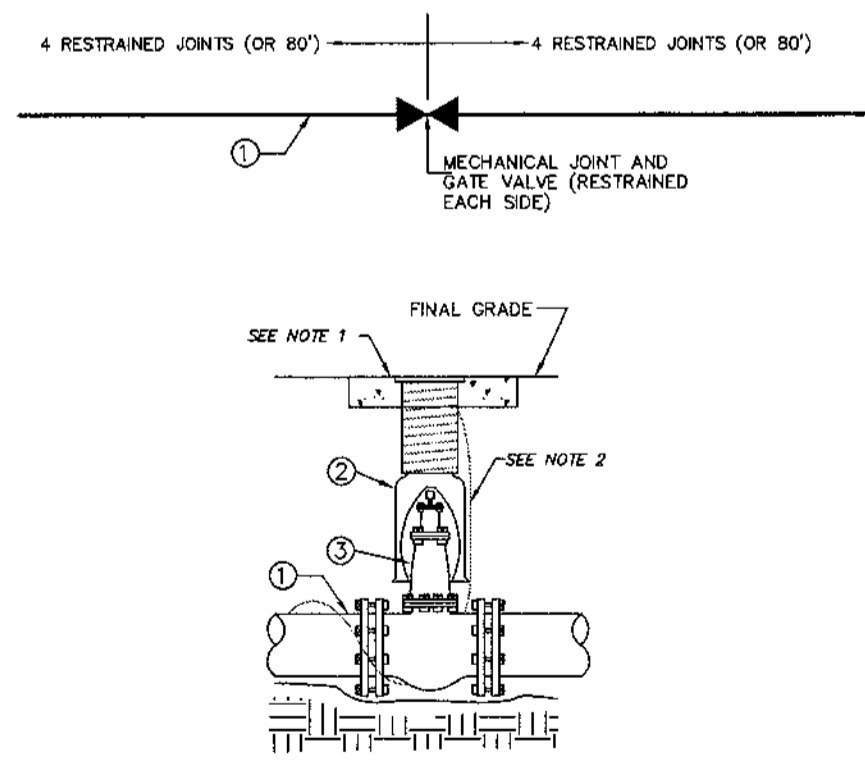
- NOTES:
- THE VALVE BOX SHALL BE SET AT FINAL GRADE WITH A MINIMUM 24" x 24" x 4" THICK CONCRETE SLAB POURED LEVEL TO FINAL GRADE AND MUST HAVE A BRASS TAG, SET IN THE CONCRETE PAD, LABELING VALVE SIZE, ROTATION AND NUMBER OF TURNS.
 - THE TRACER WIRE MUST BE TAPED TO THE EXTERIOR OF THE VALVE BOX AND EXIT BETWEEN THE BOX AND CONCRETE PAD.

WATER MAINS 2" BLOW-OFFS
NTS



- NOTES:
- PVC PLASTIC PIPE SHALL REQUIRE AN INSULATED COPPER WIRE TAPED EVERY TEN FEET ON TOP OF THE PIPE AND WRAPPED AROUND EACH FIRE HYDRANT AT FINAL GRADE. THE WIRE SHALL BE CONTINUOUS AND ALL CONNECTIONS TAPED.
 - DEPTH OF PIPE MAY BE FIELD ADJUSTED TO MEET SPECIAL CONDITIONS AS DETERMINED BY THE INSPECTOR.
 - WATER MAIN SHALL NOT BE INSTALLED WITHIN 10 FEET OF ANY BUILDING OR SANITARY SEWER MAIN.

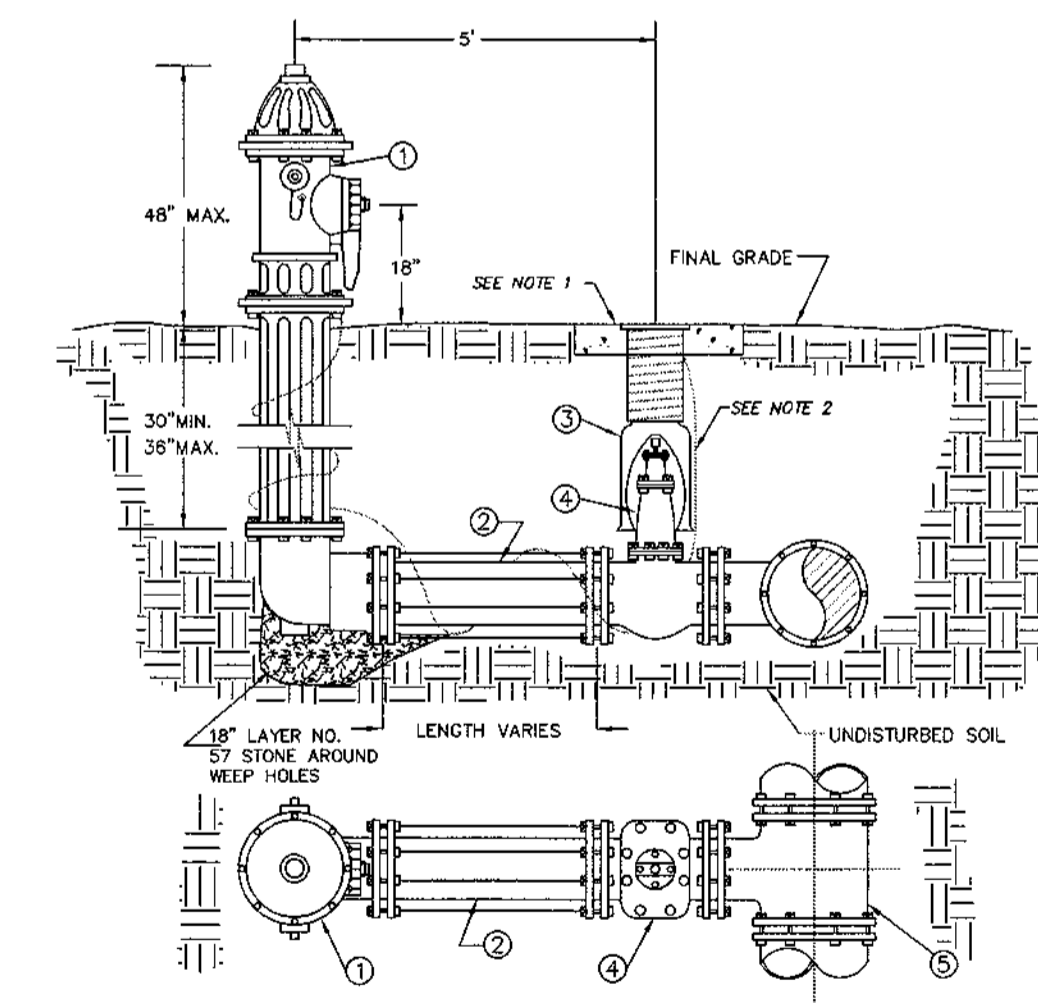
WATER MAINS, INSTALLATION
NTS



MATERIALS		
ITEM	QUANTITY	DESCRIPTION
1	1	DIP OR PVC (DR-18) PIPE
2	1	VALVE BOX
3	1	GATE VALVE (M.J.) (RESTRAINED) W/2" SQ. OPERATING NUT

- NOTES:
- THE VALVE BOX SHALL BE SET AT FINAL GRADE WITH A MINIMUM 24" x 24" x 4" THICK CONCRETE SLAB POURED LEVEL TO FINAL GRADE AND MUST HAVE A BRASS TAG, SET IN THE CONCRETE PAD, LABELING VALVE SIZE, ROTATION AND NUMBER OF TURNS.
 - THE TRACER WIRE MUST BE TAPED TO THE EXTERIOR OF THE VALVE BOX AND EXIT BETWEEN THE BOX AND CONCRETE PAD.

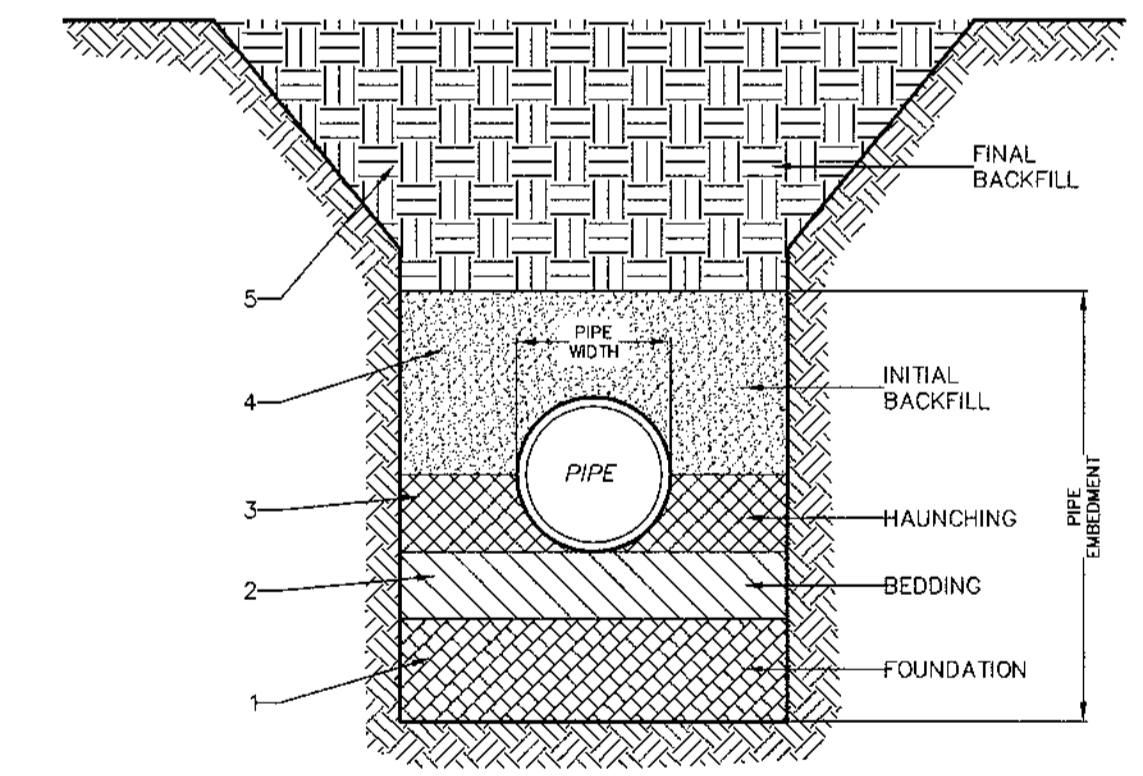
MAIN LINE VALVE & BOX DETAIL
NTS



MATERIALS		
ITEM	QUANTITY	DESCRIPTION
1	1	FIRE HYDRANT RESTRAINED TO TEE
2	1	DIP OR PVC (DR-18) PIPE W/RESTRAINING ROODS
3	1	VALVE BOX
4	1	GATE VALVE (M.J.) (ANCHORED TO TEES) AND ROD RESTRAINED TO F.H.
5	1	ANCHORING TEE (M.J.)

- NOTES:
- THE VALVE BOX SHALL BE SET AT FINAL GRADE WITH A MINIMUM 24" x 24" x 4" THICK CONCRETE SLAB POURED LEVEL TO FINAL GRADE AND MUST HAVE A BRASS TAG, SET IN THE CONCRETE PAD, LABELING VALVE SIZE, ROTATION AND NUMBER OF TURNS.
 - THE TRACER WIRE MUST BE TAPED TO THE EXTERIOR OF THE VALVE BOX AND EXIT BETWEEN THE BOX AND CONCRETE PAD.

FIRE HYDRANT ASSEMBLY
NTS



- A FOUNDATION MAY BE REQUIRED IN VERY POOR SOIL CONDITIONS.
- BEDDING IS REQUIRED PRIMARILY TO BRING THE TRENCH BOTTOM UP TO GRADE. BEDDING MATERIALS SHALL PROVIDE A UNIFORM AND ADEQUATE LONGITUDINAL SUPPORT UNDER THE PIPE. IN DRY SOIL CONDITIONS CLASS II OR CLASS III MATERIAL SHALL BE HAND PLACED 4"-6" (100-150mm), LIGHTLY COMPACTED, UNIFORM AND NOT FINER THAN THE FOUNDATION MATERIAL. WHEN UTILIZING CLASS I MATERIAL, SUFFICIENT AMOUNTS OF CLASS II OR CLASS III MATERIAL SHALL BE ADDED TO FILL ALL VOIDS CREATED BY THE USE OF CLASS I MATERIAL.
- HAUNCHING MATERIAL SHALL BE HAND PLACED TO THE SPRINGLINE OF THE PIPE. CLASS II OR CLASS III MATERIAL SHALL BE CONSOLIDATED UNDER THE PIPE AND HAND TAMPED TO PROVIDE ADEQUATE SIDE SUPPORT.
- INITIAL BACKFILL MATERIAL MAY BE CLASS II OR CLASS III. IT SHALL BE PLACED 12" (300mm) ABOVE THE TOP OF THE PIPE. THE SOIL SHALL BE CONSOLIDATED BY HAND TAMPING OR WALKING THE SOIL IN PLACE.
- FINAL BACKFILL MATERIAL MAY BE MACHINE PLACED. THE MATERIAL SHALL BE CLASS II OR CLASS III MATERIAL. CLASS IV MATERIAL MAY BE INSTALLED OUTSIDE OF THE ROADWAY. FINAL BACKFILL UNDER ROADWAYS SHALL REQUIRE SPECIAL COMPACTION AND DENSITY TESTS.

BACKFILLING DETAIL
NTS

cph
500 West Fulton Street
Sanford, Florida 32771
P. O. Box 2808
Sanford, Florida 32772-2808
Phone 407 322-6841
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Engineers
Surveyors
Architects
Planners
Landscape Architects
Environmental Scientists
Construction Management
Traffic / Transportation

Eng. C.O.A. No. 3215
Survey L.B. No. 7143
Arch. Lic. No. AA2600926
Landscape Lic. No. LC0000298
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By	HLW	Revision	Date	No.
			6/18/10	1
				2
				3
				4
				5
				6
				7
				8
				9
				10

CITY DETAIL SHEET

Designed by: J.K.B.
Checked by:
Approved by:
Scale: NONE
Date: 1/23/06
Job No.: W13392.1
File: 6/18/10 CITY SUBMITTAL

Walmart

STORE NO. 3873-00, ALACHUA (SEC. 17S & HWY 441), FLORIDA

WALMART STORE #3873

ALACHUA, FLORIDA VERSALOK RETAINING WALL SYSTEM MAY 29, 2009

1.0 REINFORCED ZONE

THE REINFORCED BACKFILL SHALL BE COMPACTED GRANULAR FILL FREE OF DEBRIS AND MEETING THE FOLLOWING GRADATION AS DETERMINED IN ACCORDANCE WITH ASTM D422.

SIEVE SIZE	PERCENT PASSING
4 INCH	100 - 75
NO. 4	100 - 20
NO. 40	0 - 60
NO. 200	0 - 35

THE MAXIMUM SIEVE SIZE SHOULD BE LIMITED TO 4 INCH. REINFORCED BACKFILL SOIL SHALL CONSIST OF NON-PLASTIC MATERIAL MEETING USCS CRITERIA FOR GW, GP, SW, SP, OR SM. THE PORTION PASSING THE NO. 40 SIEVE SHALL HAVE A PLACTICITY INDEX LESS THAN 20.

2.0 TECHNICAL REQUIREMENTS

FILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT EXCEEDING 8 INCHES IN COMPACTED THICKNESS FOR HEAVY COMPACTION EQUIPMENT. FOR ZONES WHERE COMPACTION IS ACCOMPLISHED WITH HAND EQUIPMENT, FILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT EXCEEDING 6 INCHES IN UNCOMPACTED THICKNESS. ONLY HAND OPERATED EQUIPMENT SHALL BE ALLOWED WITHIN 3 FEET OF THE WALL FACE.

FILL SHALL BE COMPACTED AS SPECIFIED BY THE PROJECT SPECIFICATIONS OR TO A MINIMUM 95 % OF THE MAXIMUM DENSITY, AND WITHIN +3/-3 PERCENT OF OPTIMUM MOISTURE CONTENT AS DETERMINED IN ACCORDANCE WITH ASTM D-698 (STANDARD PROCTOR DENSITY), WHICHEVER IS GREATER.

IN THE ABSENCE OF OWNER'S DIRECTION TO EMPLOY MORE STRINGENT COMPACTION SPECIFICATIONS, THE COMPACTED DENSITY OF THE FILL SHALL BE TESTED EVERY 2,000 SQUARE FEET PER 8 INCH LIFT OR EVERY 200 LINEAR FEET OF A SINGLE COURSE OF BLOCKS, WHICHEVER IS LESS.

THE CAP UNIT SHALL BE GLUED TO THE TOP MOST STANDARD UNIT.

TESTING METHODS, FREQUENCY AND VERIFICATION OF MATERIAL SPECIFICATIONS AND COMPACTION SHALL BE THE RESPONSIBILITY OF THE OWNER.

HEAVY AND/OR CONSTRUCTION EQUIPMENT NOT INVOLVED WITH THE WALL CONSTRUCTION SHALL NOT OPERATE WITHIN 10.0' OF THE WALL FACE UNTIL FINAL PAVEMENT AND CURBING IS IN PLACE BEHIND THE WALL AS APPLICABLE.

3.0 GEOGRID PLACEMENT

GEOGRID SHALL BE PLACED AT THE LOCATIONS, ELEVATIONS AND WITH THE PROPER EMBEDMENT LENGTH AS SHOWN ON THE CONSTRUCTION DRAWINGS. EMBEDMENT LENGTH IS MEASURED FROM THE FRONT FACE OF THE WALL UNIT.

GEOGRIDS SHALL BE CONNECTED TO THE WALL UNIT PER THE MANUFACTURER'S INSTRUCTIONS.

PRIOR TO PLACING FILL MATERIALS IN THE REINFORCED FILL AREA, THE GEOGRIDS SHALL BE ANCHORED TO THE WALL UNITS, PULLED TIGHT TO REMOVE ANY SLACK, AND LAID FLAT AND HORIZONTAL. NO PORTION OF THE GEOGRID PLACEMENT SHALL BE STEEPER THAN 10% GRADE FROM THE HORIZONTAL OR ALLOWED TO DROOP DOWN DIRECTLY BEHIND THE BLOCK.

TRACKED CONSTRUCTION EQUIPMENT SHALL NOT BE OPERATED DIRECTLY ON THE GEOGRID MATERIALS. A MINIMUM FILL THICKNESS OF 6 INCHES IS REQUIRED FOR OPERATION OF TRACKED VEHICLES OVER THE GEOGRID. THE TURNING OF TRACKED VEHICLES SHALL BE KEPT TO A MINIMUM TO PREVENT DISPLACEMENT OF GEOGRIDS.

4.0 DRAINAGE

BACKFILL SHALL BE GRADED AWAY FROM THE WALL FACE AND COMPACTED TO 95 % STANDARD PROCTOR AT THE END OF EACH WORK DAY TO PREVENT PONDING OF WATER ON THE SURFACE OF THE REINFORCED SOIL MASS.

PERMANENT DRAINAGE AND SITE GRADING SHALL BE PERFORMED TO PREVENT RUNOFF FROM BEING DIRECTED OVER THE WALL FACE OR ALLOWED TO POND ABOVE THE REINFORCED MASS.

5.0 DESIGN PARAMETERS

DESIGN OF THE REINFORCED SOIL STRUCTURES IS BASED ON THE FOLLOWING PARAMETERS:

REINFORCED FILL	$\phi' = 30^\circ$	$C' = 0$ PSF	$\gamma = 120$ PCF
RETAINED FILL	$\phi' = 30^\circ$	$C' = 0$ PSF	$\gamma = 120$ PCF
FOUNDATION	$\phi' = 30^\circ$	$C' = 0$ PSF	$\gamma = 120$ PCF

INTERNAL STABILITY:

MIN. F.S. AGAINST GEOGRID PULLOUT	= 1.5
SOIL-GEOGRID INTERACTION COEFFICIENT	= 0.8
PERCENT COVERAGE OF GEOGRID	= 100 %
MINIMUM F.S. FOR UNCERTAINTIES	= 1.5

EXTERNAL STABILITY:

MINIMUM F.S. AGAINST BASE SLIDING	= 1.5
MINIMUM F.S. AGAINST OVERTURNING	= 2.0
MINIMUM F.S. FOR GLOBAL STABILITY	= 1.3
MINIMUM F.S. FOR RAPID DRAWDOWN	= 1.125
MINIMUM F.S. FOR SEISMIC	= 1.125

UNIFORM SURCHARGE	= 250 PSF
HYDROSTATIC LOADING	= EL. 84.25
SEISMIC LOADING	= 0.1g
REQUIRED BEARING CAPACITY	= VARIES (SEE ELEVATION VIEW)

6.0 SPECIAL PROVISIONS

SOIL REINFORCEMENT DESIGN, INC. ASSUMES NO LIABILITY FOR INTERPRETATIONS OF SUBSURFACE CONDITIONS, SUITABILITY OF SOIL PARAMETERS, AND SUBSURFACE GROUNDWATER CONDITIONS. THE WALL CONTRACTOR AND/OR CONSTRUCTION VERIFICATION ENGINEER IS RESPONSIBLE FOR REVIEWING AND VERIFYING THAT CONDITIONS DESCRIBED ABOVE ARE ACCURATE PRIOR TO AND DURING CONSTRUCTION.

ALL WALLS OVER 25.0' IN HEIGHT REQUIRE DEEP BORINGS AT THE WALL LOCATION EVERY 50.0' O.C. ALONG THE WALL LENGTH. THE BORINGS SHALL EXTEND TO 1.5 TIMES THE WALL HEIGHT. FOR EXAMPLE, A 40.0' WALL WOULD REQUIRE DEEP BORINGS TO 60.0'. THE BORING RESULTS SHOULD BE SUBMITTED TO THE CONSTRUCTION VERIFICATION ENGINEER TO VERIFY FOUNDATION DESIGN PARAMETERS PRIOR TO CONSTRUCTION.

THE WALL CONTRACTOR AND/OR OWNER IS RESPONSIBLE FOR HAVING SUPERVISION OF ALL PHASES OF CONSTRUCTION BY A QUALIFIED GEOTECHNICAL ENGINEER.

SETTLEMENT AND ITS EFFECT ON THE RETAINING WALL SYSTEM HAS NOT BEEN EVALUATED BY SRDI. FOR THE EVALUATION OF SETTLEMENT, ADDITIONAL TESTING OF THE SUBGRADE AND ADDITIONAL ENGINEERING IS REQUIRED WHICH IS OUTSIDE THE SCOPE OF PRODUCING THESE DESIGN DRAWINGS. SRDI CAN PROVIDE A PROPOSAL TO PERFORM THE ADDITIONAL TESTING AND CALCULATIONS UPON REQUEST.

A COPY OF THESE DRAWINGS SHALL BE PROVIDED TO FUTURE OWNERS OF THE DEVELOPED PROPERTY TO PROVIDE THEM WITH A RECORD OF THE LOCATION OF THE REINFORCED ZONE AND RECOMMENDATIONS REGARDING PREMISSIBLE CONSTRUCTION ACTIVITIES AROUND THE MECHANICALLY STABILIZED EARTH STRUCTURE.

GENERAL NOTES:

1. SOIL INSTALLED IN SLOPES BOTH ABOVE AND BELOW THE REINFORCED STRUCTURE SHALL BE COMPACTED TO WITHIN 95 % OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST (ASTM D-698).

2. CONSTRUCTION VERIFICATION OF THE WALL INSTALLATION BY AN ENGINEER IS REQUIRED BY THE LOCAL MUNICIPALITY AND MUST BE PROVIDED BY A KNOWLEDGEABLE GEOTECHNICAL ENGINEER FAMILIAR WITH MECHANICALLY STABILIZED STRUCTURES. SRDI CAN PERFORM THIS VERIFICATION AS REQUESTED BUT MUST INCLUDE DAILY SITE VISITS.

3. IDENTIFICATION OF ALL UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY CONFLICTS SHALL BE REPORTED TO THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION.

4. EXCAVATION THROUGH THE GEOSYNTHETIC REINFORCEMENT FOR THE PURPOSE OF PLANTING TREES OR INSTALLATION OF UTILITIES SHOULD NOT OCCUR WITHOUT APPROVAL BY THE ENGINEER OF RECORD.

5. WATERLINES INCLUDING IRRIGATION SYSTEMS MUST BE WATER TIGHT WITHIN 100 FEET OF THE REINFORCED ZONE. LEAKAGE BEHIND A RETAINING WALL WILL INCREASE THE HORIZONTAL PRESSURE AGAINST THE WALL LEADING TO WALL FAILURE. FOR THIS REASON, SUBSURFACE WATERLINES AND IRRIGATION SYSTEMS SHOULD NOT BE INSTALLED ABOVE THE REINFORCED ZONES OF THE RETAINING WALL, OR WITHIN 5 FEET BEHIND THE REINFORCED ZONES.

6. THE RETAINING WALLS DESIGNED HEREIN ARE IN ACCORDANCE WITH THE STANDARD OF PRACTICE AS OUTLINED BY THE NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA) DESIGN MANUAL FOR SEGMENTAL RETAINING WALLS, SECOND EDITION.

7. ALL CONSTRUCTION ACTIVITY SHALL CONFORM TO THE MINIMUM REQUIREMENTS PER O.S.H.A. STANDARDS.

8. THIS DESIGN IS BASED UPON SPECIFIC PROPERTIES OF MATERIALS WHICH ARE PROPRIETARY. ANY SUBSTITUTION OF THE SPECIFIED PRODUCTS OR CHANGE IN STRUCTURE GEOMETRY WILL INVALIDATE THIS DESIGN. THIS DRAWING IS BEING FURNISHED FOR USE ON THIS SPECIFIC PROJECT ONLY. ANY PARTY ACCEPTING THIS DOCUMENT DOES SO IN CONFIDENCE AND AGREES THAT IT SHALL NOT BE DUPLICATED, IN WHOLE OR IN PART, NOR DISCLOSED TO OTHERS WITHOUT THE CONSENT OF SOIL REINFORCEMENT DESIGN, INC. THIS DRAWING, DESIGN NOTES, AND ASSOCIATED CALCULATIONS HAVE BEEN PREPARED BY SOIL REINFORCEMENT DESIGN, INC. FROM INFORMATION PROVIDED BY OTHERS. FINAL DETERMINATION OF THE SUITABILITY OF ANY INFORMATION CONTAINED HEREIN IS THE RESPONSIBILITY OF THE USER.

9. DISCOVERY OF SUBSURFACE GROUNDWATER SHALL BE REPORTED IMMEDIATELY TO THE PROJECT GEOTECHNICAL ENGINEER AND SRDI FOR ADDITIONAL DRAINAGE CONSIDERATION.

10. STORM DRAIN SYSTEMS ARE PRONE TO LEAKING. THEREFORE, IF A JOINT IN A STORM WATER PIPE IS LOCATED WITHIN 100 FEET OF THE RETAINING WALL THE STORM WATER PIPE MUST BE WATER TIGHT. NEOPRENE O-RINGS MUST BE INSTALLED AT ALL STORM PIPE JOINTS AS A MINIMUM.

11. CONSTRUCTION ACTIVITIES, WHICH OCCUR ON THE SITE AFTER COMPLETION OF THE RETAINING WALL, SHOULD BE MONITORED BY THE OWNER'S REPRESENTATIVE TO INSURE THAT THEY DO NOT RESULT IN EXCAVATION THROUGH GEOSYNTHETIC REINFORCEMENT OR IN THE VICINITY OF THE WALL FOUNDATION. HEAVY CONSTRUCTION EQUIPMENT SHOULD NOT BE PERMITTED TO OPERATE WITHIN 3.0 FEET BEHIND A WALL FACE.

12. EARTH STRUCTURE LOCATION IN RELATION TO PROPERTY LINES, WATERSHED EASEMENTS, UTILITY EASEMENTS OR ANY OTHER TYPE OF EASEMENT OR BUFFER ARE THE RESPONSIBILITY OF THE OWNER OR THE SITE CIVIL ENGINEER. SRDI ASSUMES NO LIABILITY FOR THE LOCATION OF THE EARTH STRUCTURE. SURVEY CONTROL MUST BE PERFORMED USING THE CIVIL SITE DESIGNER'S LOCATION INFORMATION AND ACCOUNT FOR ALL STRUCTURE FACE BATTER. DEVIATION FROM THE CIVIL SITE DESIGN LAYOUT MUST BE REPORTED TO AND APPROVED BY THE CIVIL SITE DESIGNER PRIOR TO THE EARTH STRUCTURE'S CONSTRUCTION.

13. THE OWNER OR OWNER'S REPRESENTATIVE HAS NOT PROVIDED SPECIFIC SOIL PARAMETERS FOR THE PROPOSED EARTH STRUCTURE, AND TESTING OF THE PROPOSED SOILS HAS NOT BEEN PERFORMED PRIOR TO THE DESIGN. IN PREPARATION OF THE DESIGN, ASSUMED SOIL PARAMETERS WERE USED. THEREFORE, CONSTRUCTION VERIFICATION OF THE ABOVE ASSUMED SOIL CONDITIONS IS IMPERATIVE PRIOR TO CONSTRUCTION. FAILURE TO VALIDATE THE ASSUMED SOIL PARAMETERS CAN RESULT IN STRUCTURE FAILURE.

14. ALL ROOF DRAINS AND ROOF DRAIN OUTLETS MUST BE PIPED TO STORM DRAIN SYSTEM. ROOF DRAINS SHALL NOT BE EMPTIED INTO DRY WELLS OR POP UP DISSIPATORS WITHIN 20 FT OF THE REINFORCED ZONE.

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REVISION / ISSUE

NO. DATE DESCRIPTION

1 5/29/09 ISSUED FOR CONSTRUCTION

SOIL REINFORCEMENT DESIGN, INC.
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ENGINEER

TITLE SHEET
WALMART STORE #3873-00
ALACHUA, FLORIDA

DRAWN BY: DESIGNED BY: CHECKED BY:
LGP LGP TLR

DATE: MAY 29, 2009

SCALE: AS NOTED

PROJECT NO.: Z91664

SHEET

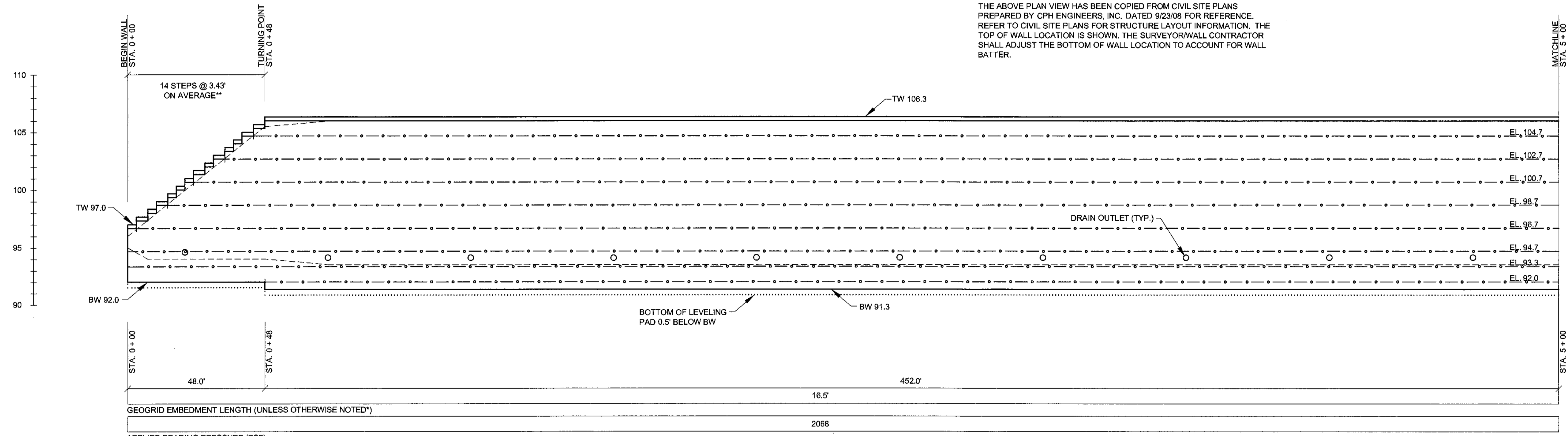
RW1

OF 3 SHEETS

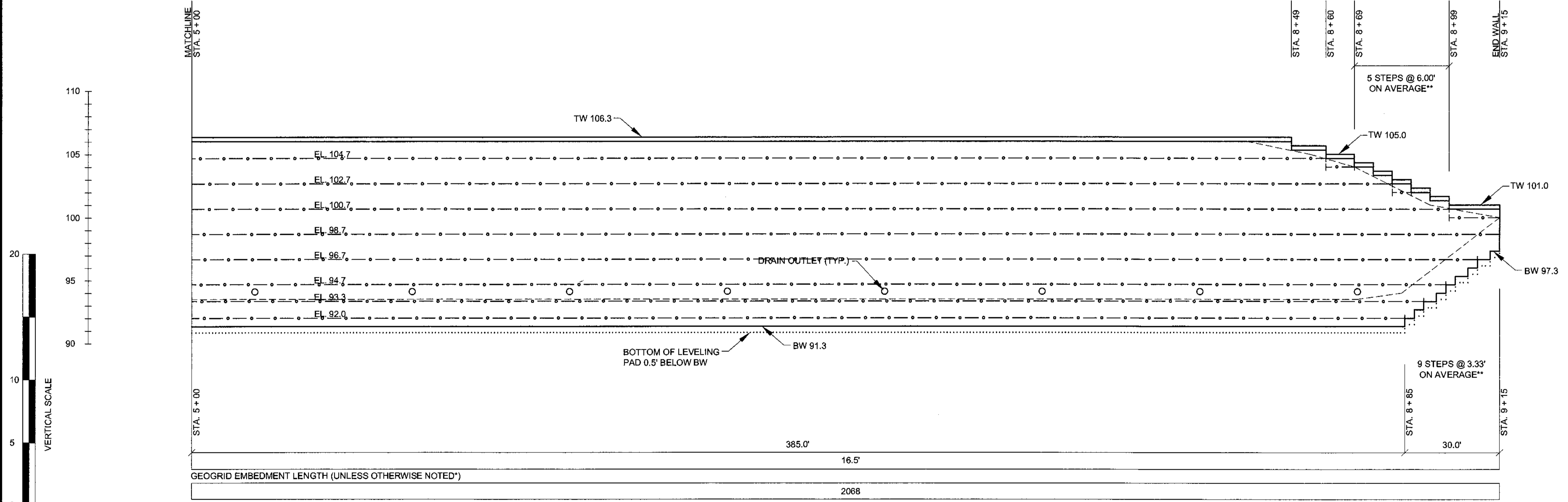
NOTE: CONSTRUCTION VERIFICATION OF THE WALL INSTALLATION BY AN ENGINEER MAY BE REQUIRED BY THE LOCAL MUNICIPALITY AND MUST BE PROVIDED BY A KNOWLEDGEABLE GEOTECHNICAL ENGINEER FAMILIAR WITH MECHANICALLY STABILIZED STRUCTURES.

PLAN VIEW
NOT TO SCALE

THE ABOVE PLAN VIEW HAS BEEN COPIED FROM CIVIL SITE PLANS PREPARED BY CPH ENGINEERS, INC. DATED 9/23/08 FOR REFERENCE. REFER TO CIVIL SITE PLANS FOR STRUCTURE LAYOUT INFORMATION. THE TOP OF WALL LOCATION IS SHOWN. THE SURVEYOR/WALL CONTRACTOR SHALL ADJUST THE BOTTOM OF WALL LOCATION TO ACCOUNT FOR WALL BATTER.



FRONT FACE ELEVATION VIEW
RETENTION POND WALL (STA. 0+00 - STA. 5+00)



FRONT FACE ELEVATION VIEW
RETENTION POND WALL (STA. 5+00 - STA. 9+15)

LEGEND	
BW	BOTTOM OF WALL
TW	TOP OF WALL
- - -	PROPOSED GRADE AT WALL
X.X	ALTERNATE REINFORCEMENT LENGTH OR REINFORCEMENT TERMINATION
- + -	CHANGE IN EMBEDMENT LENGTH OR REINFORCEMENT TERMINATION
EL. XX.X	REINFORCEMENT ELEVATION
---	MIRAGRID 3XT REINFORCEMENT
▬	LEVELING PAD

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REVISION / ISSUE

NO.	DATE	DESCRIPTION
1	5/29/09	ISSUED FOR CONSTRUCTION

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PLAN AND ELEVATION VIEWS

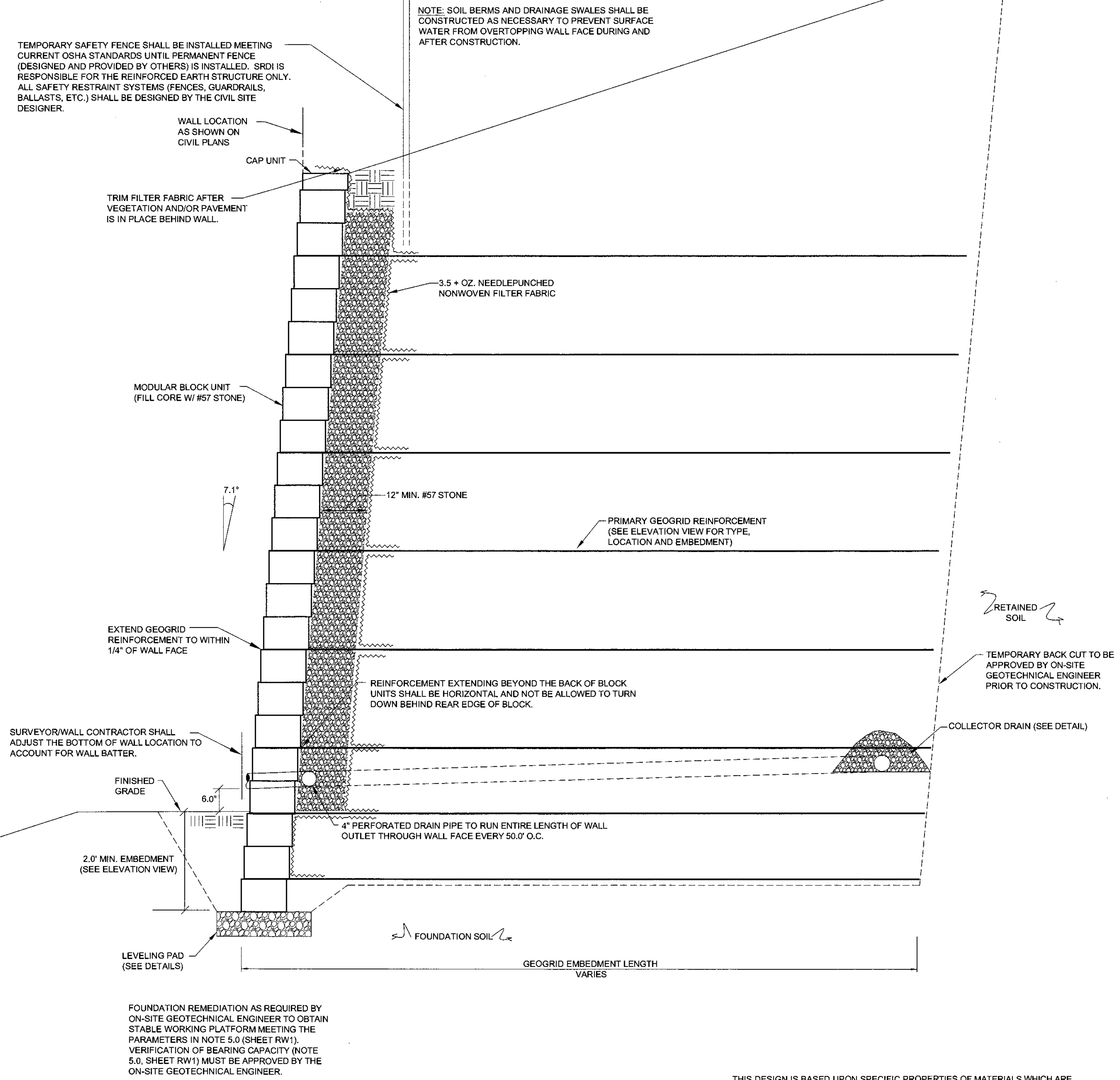
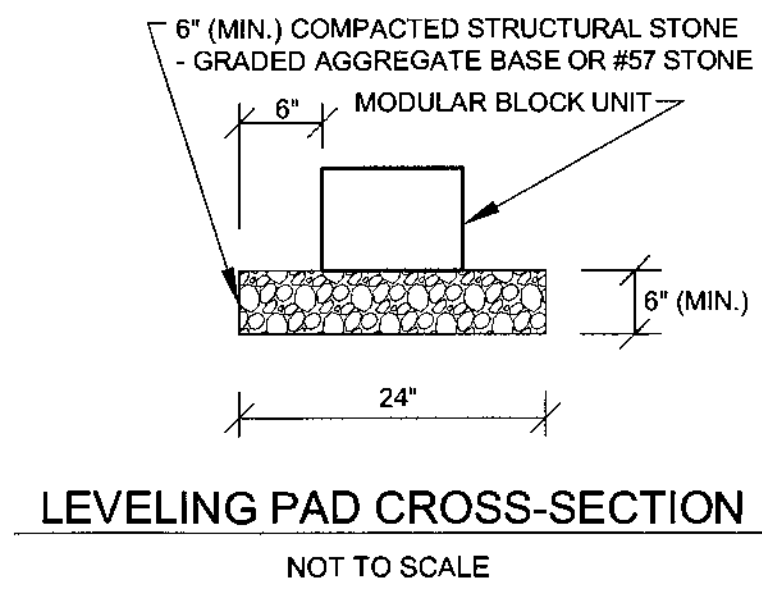
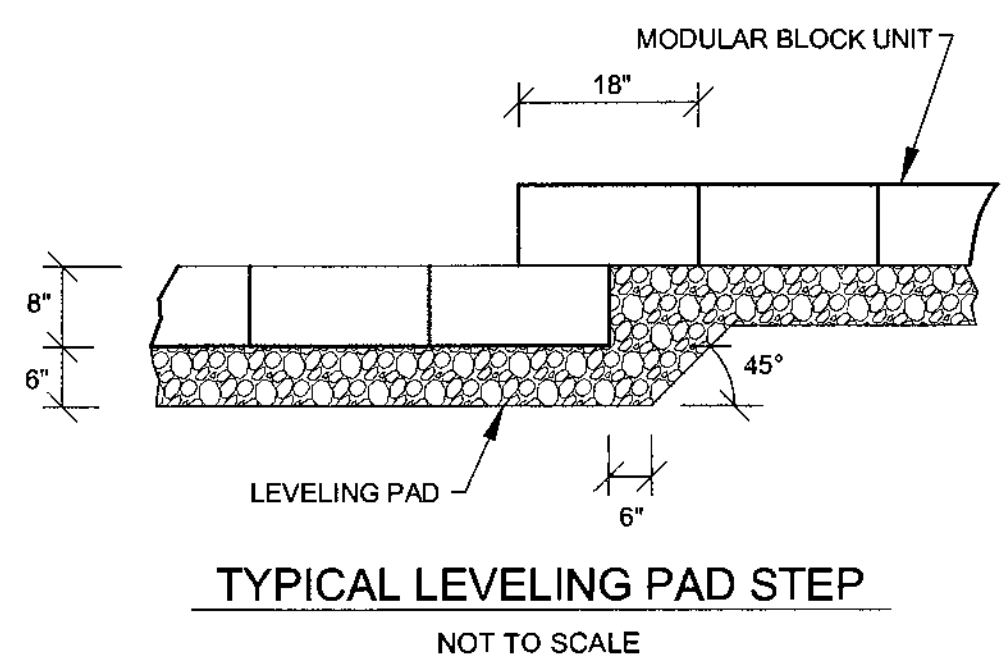
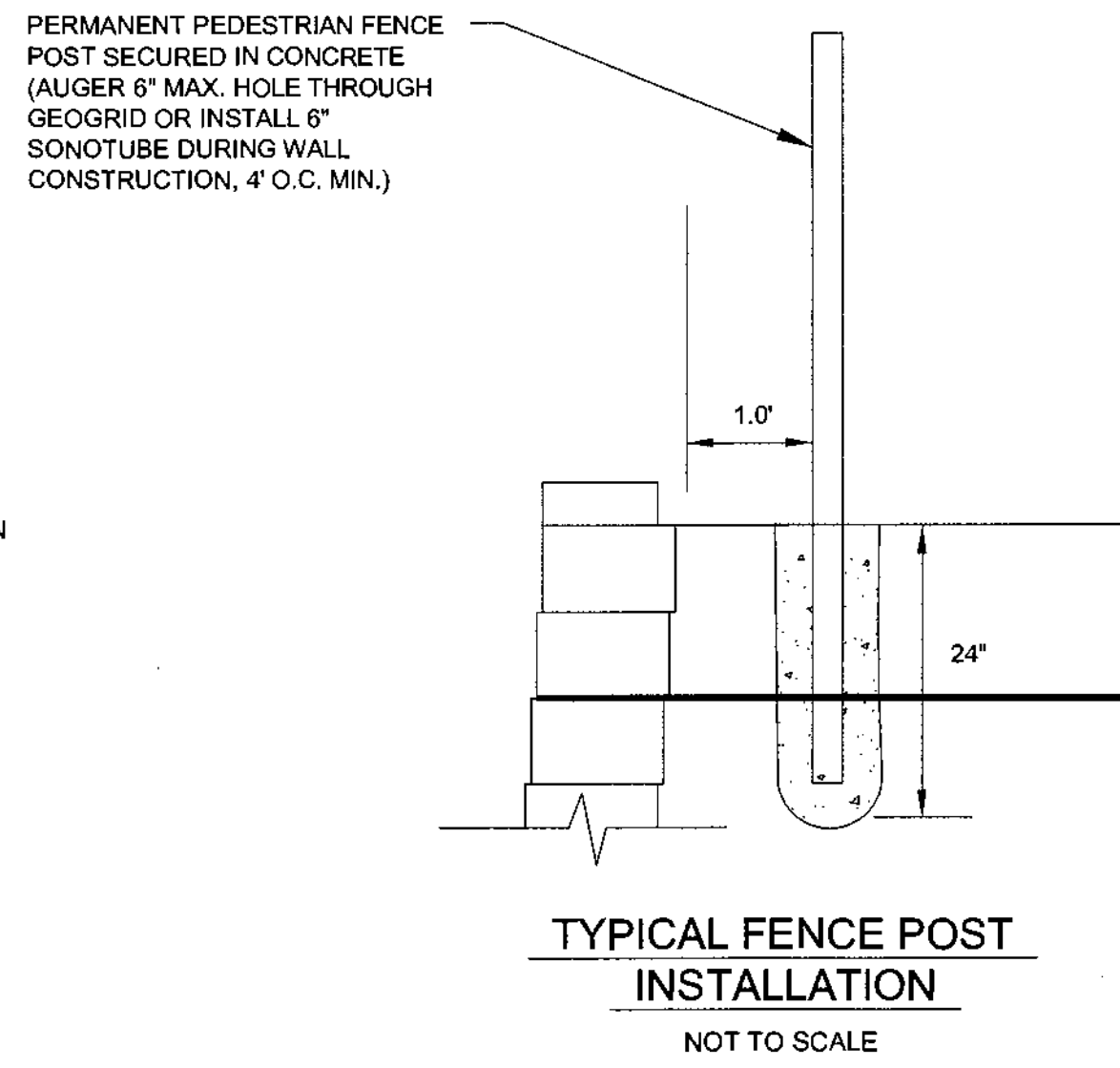
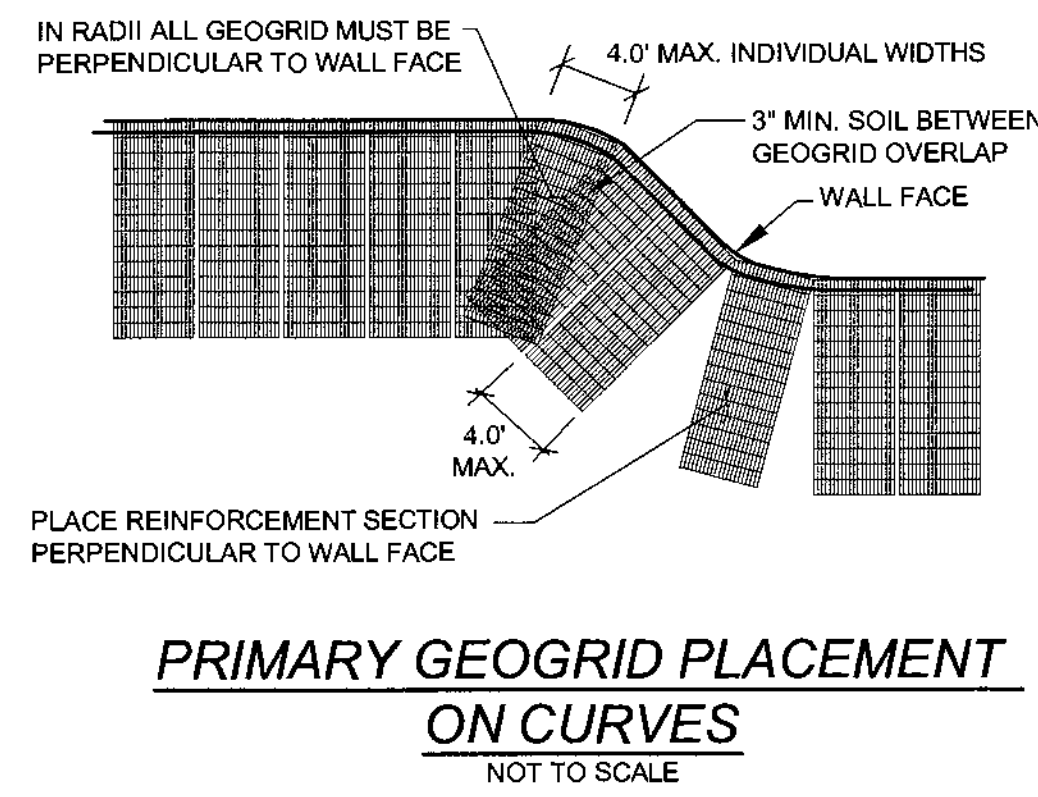
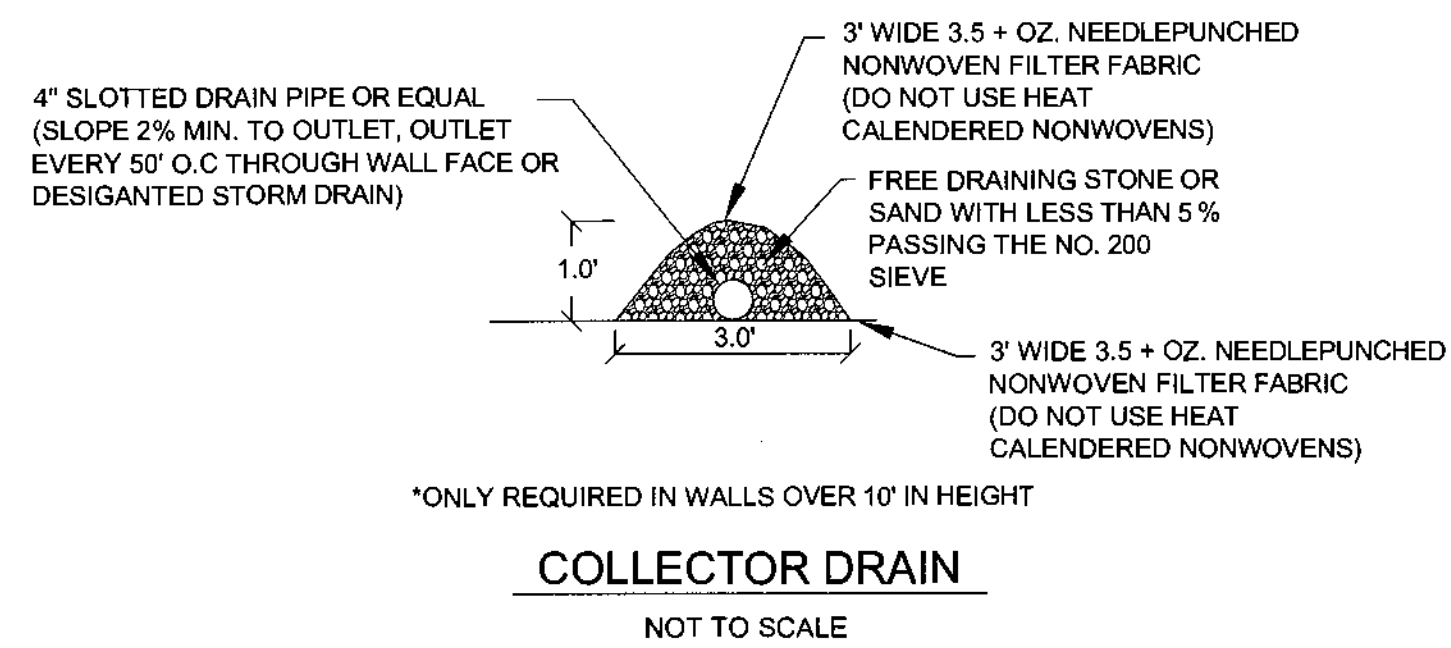
WALMART STORE #3873-00

ALACHUA, FLORIDA

DRAWN BY:	DESIGNED BY:	CHECKED BY:
LGP	LGP	TLR

DATE: MAY 29, 2009
SCALE: AS NOTED
PROJECT NO.: Z91664
SHEET

RW2
OF 3 SHEETS



FOUNDATION REMEDIATION AS REQUIRED BY ON-SITE GEOTECHNICAL ENGINEER TO OBTAIN STABLE WORKING PLATFORM MEETING THE PARAMETERS IN NOTE 5.0 (SHEET RW1). VERIFICATION OF BEARING CAPACITY (NOTE 5.0, SHEET RW1) MUST BE APPROVED BY THE ON-SITE GEOTECHNICAL ENGINEER.

THIS DESIGN IS BASED UPON SPECIFIC PROPERTIES OF MATERIALS WHICH ARE PROPRIETARY. ANY SUBSTITUTION OF THE SPECIFIED PRODUCTS OR CHANGE IN STRUCTURE GEOMETRY WILL INVALIDATE THIS DESIGN. THIS DRAWING IS BEING FURNISHED FOR USE ON THIS SPECIFIC PROJECT ONLY. ANY PARTY ACCEPTING THIS DOCUMENT DOES SO IN CONFIDENCE AND AGREES THAT IT SHALL NOT BE DUPLICATED, IN WHOLE OR IN PART, NOR DISCLOSED TO OTHERS WITHOUT THE CONSENT OF SOIL REINFORCEMENT DESIGN, INC. THIS DRAWING, DESIGN NOTES, AND ASSOCIATED CALCULATIONS HAVE BEEN PREPARED BY SOIL REINFORCEMENT DESIGN, INC. FROM INFORMATION PROVIDED BY OTHERS. FINAL DETERMINATION OF THE SUITABILITY OF ANY INFORMATION CONTAINED HEREIN IS THE RESPONSIBILITY OF THE USER.

REVISION / ISSUE	
NO.	DESCRIPTION
1	ISSUED FOR CONSTRUCTION

DESIGNER
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DETAIL SHEET
WALMART STORE #3873-00
 ALACHUA, FLORIDA

DRAWN BY: LGP	DESIGNED BY: LGP	CHECKED BY: TLR
DATE: MAY 29, 2009		
SCALE: AS NOTED		
PROJECT NO.: Z91664		
SHEET: RW3		
OF 3 SHEETS		

PHOTOMETRIC STATISTICS

Description	Avg	Max	Min	Max/Min	Avg/Min
ENTR RD (SELL 1-SELL2)	1.4 fc	4.1 fc	0.5 fc	8.2:1	2.8:1
ENTRANCE	1.7 fc	3.0 fc	0.4 fc	7.5:1	4.3:1
INTERSECTION (ENTR - SL2)	1.4 fc	3.3 fc	0.6 fc	5.5:1	2.3:1
NW 151 BLVD	1.5 fc	2.4 fc	0.5 fc	4.8:1	3.0:1
SELLER ROAD 1	1.5 fc	2.8 fc	0.5 fc	5.6:1	3.0:1
SELLER ROAD 2	1.2 fc	2.3 fc	0.5 fc	4.6:1	2.4:1
TRAFFIC CIRCLE	1.8 fc	3.4 fc	0.7 fc	4.9:1	2.6:1



DRAWN
APPROVED
WTS
REVISIONS

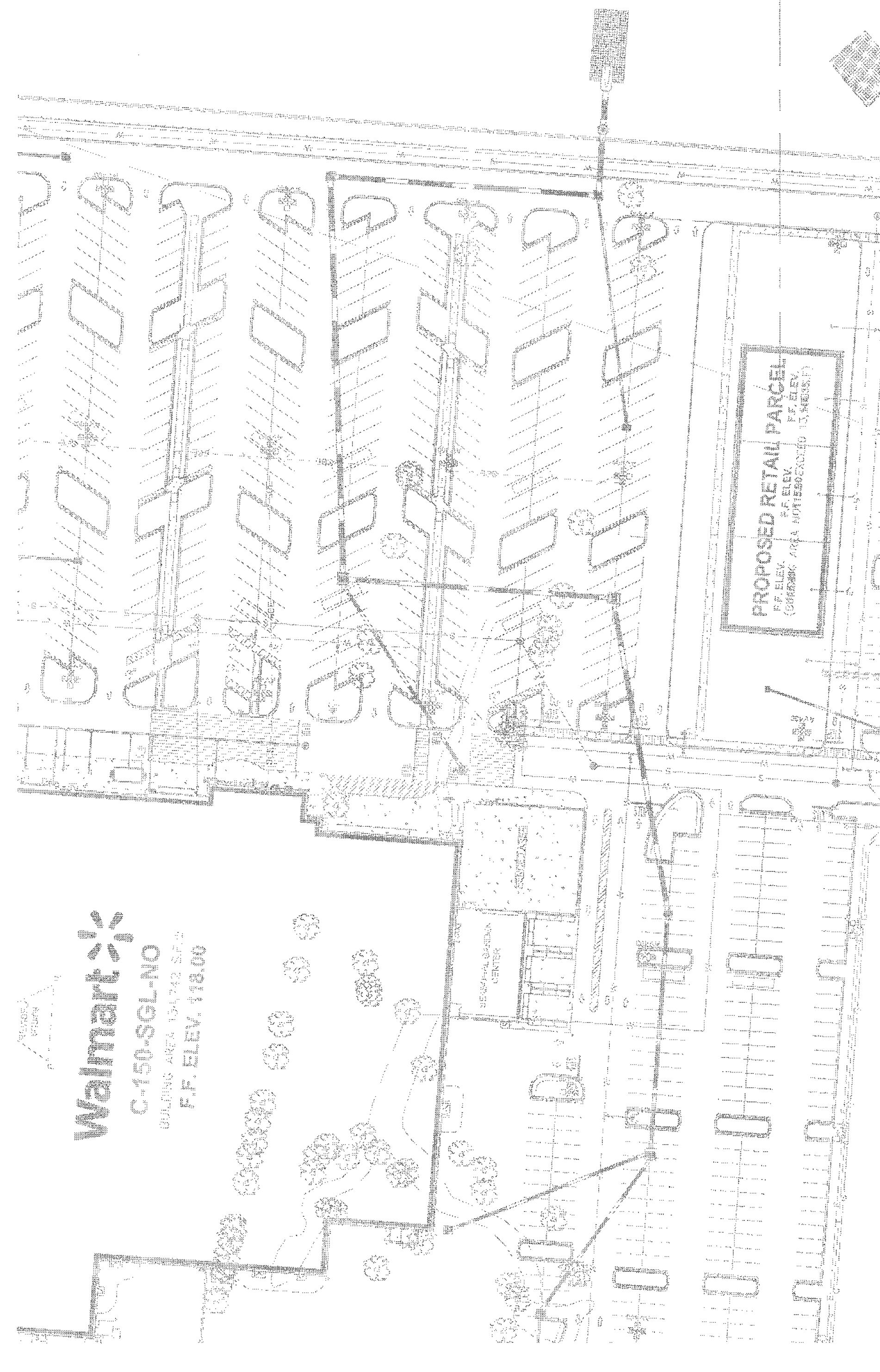
SHEET TITLE

ALACHUA TOWN CENTRE - WALMART
ELECTRIC UTILITY SYSTEM

SEAL

WILLIAM T. STORMANT PE - ELECTRICAL ENGINEER
5304 NW 173 Street, Alachua, FL 32615 (352) 472-3642 Lic. # 44156

FILE NO.
DATE
05/26/10
SHEET
E1
OF 9



- 150 WATT HPS TYPE III DISTRIBUTION, ACORN STYLE LUMINAIRE WITH GLASS REFRACTOR, ON 13' (ABOVE GROUND) CONCRETE POLE WITH 10' BURIED WIRE ENCLOSURE (SBWE) AT BASE OF POLE, LOCATE 5' BACK OF CURB TO BACK OF POLE OR ADJACENT TO SIDEWALK (SEE PLAN). LUMINAIRE SHALL HAVE AN INTEGRAL PHOTOCELL. LUMINAIRE - HOLOPHANE GRANVILLE SVLU-154HP-12-B-3-N-U-H POLE-AMERON POLE PRODUCTS VEF-4.0. NOTE: 120V BALLAST.
- SLA ○—●
- 100 WATT HIGH PRESSURE SODIUM LUMINAIRE (HOLOPHANE MP100HP12B4 S-67514) ON 17' POLE (C17/20-CIS/PP-DBH) WITH 4' ARM (WLC48/1-CA-DBH), FITTER WITH PHOTO CONTROL (WLLF/200-SCA/BZR TRPC-SBZH), MOUNTED ON POURED CONCRETE BASE, 4-26" STANDARD BANNERS (BA26H/1/BO-CA/DB) POLE MOUNTED GFI-WP RECEPTACLES. NOTE: 120V BALLAST.
- SLB ○—●
- 2-100 WATT HIGH PRESSURE SODIUM LUMINAIRE (HOLOPHANE MP100HP12B4 S-67514) ON 17' POLE (C17/20-CIS/PP-DBH) WITH 2-4' ARM (WLC48/1-CA-DBH), FITTER WITH PHOTO CONTROL (WLLF/200-SCA/BZR TRPC-SBZH), MOUNTED ON POURED CONCRETE BASE, 4-26" STANDARD BANNERS (BA26H/1/BO-CA/DB) POLE MOUNTED GFI-WP RECEPTACLES. NOTE: 120V BALLAST.

NOTE: ALTERNATE HOT LEG USED TO CONNECT LUMINAIRES.

NOTE
1000 PULL FROM SW. G11 TO SB "5", 435'

NORTH
SCALE: 1"=20'
1000 PULL, S.B. "5"

DRAWN
APPROVED
WTS

REVISIONS

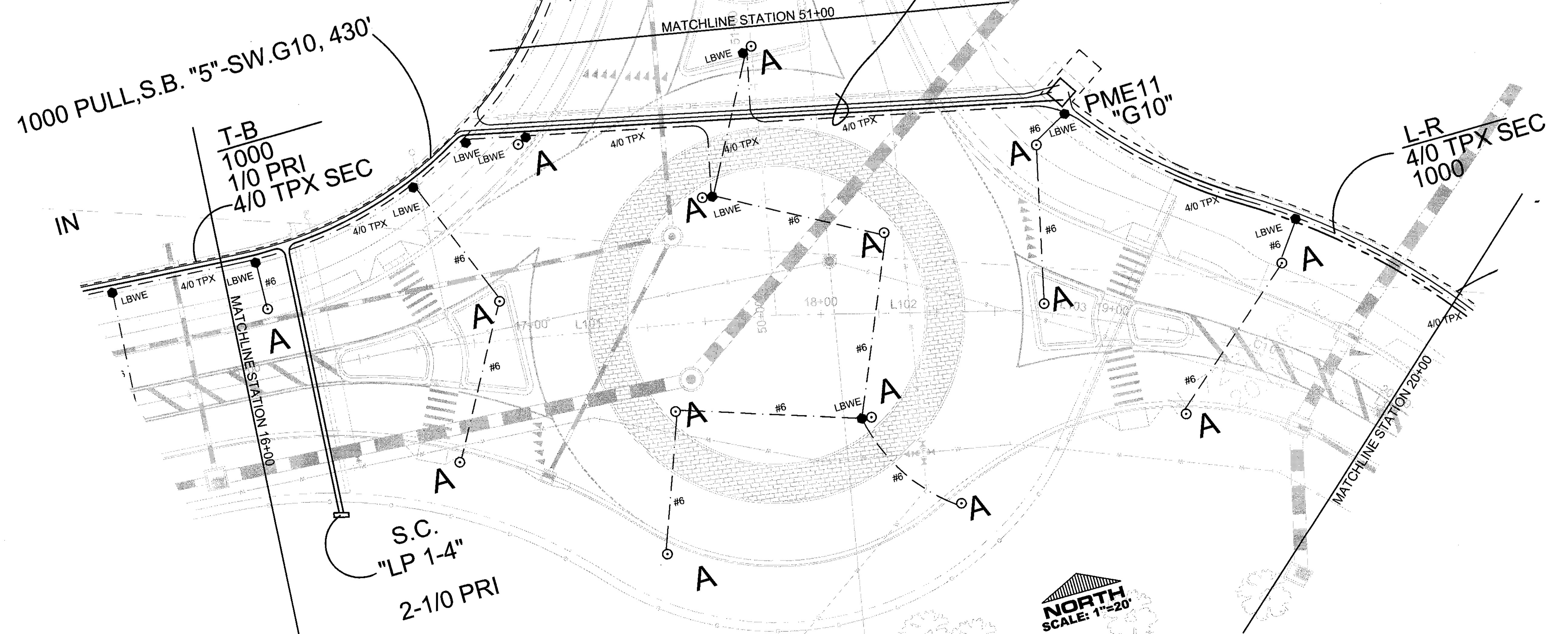
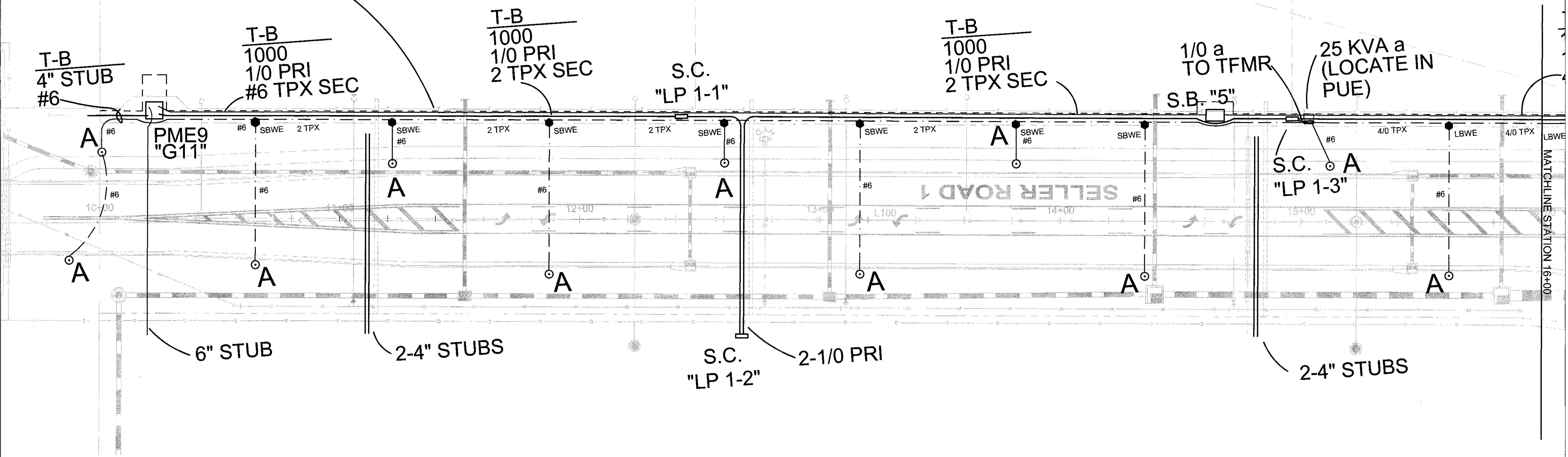
SHEET TITLE

ALACHUA COMMERCE - WALMART
ELECTRIC UTILITY SYSTEM

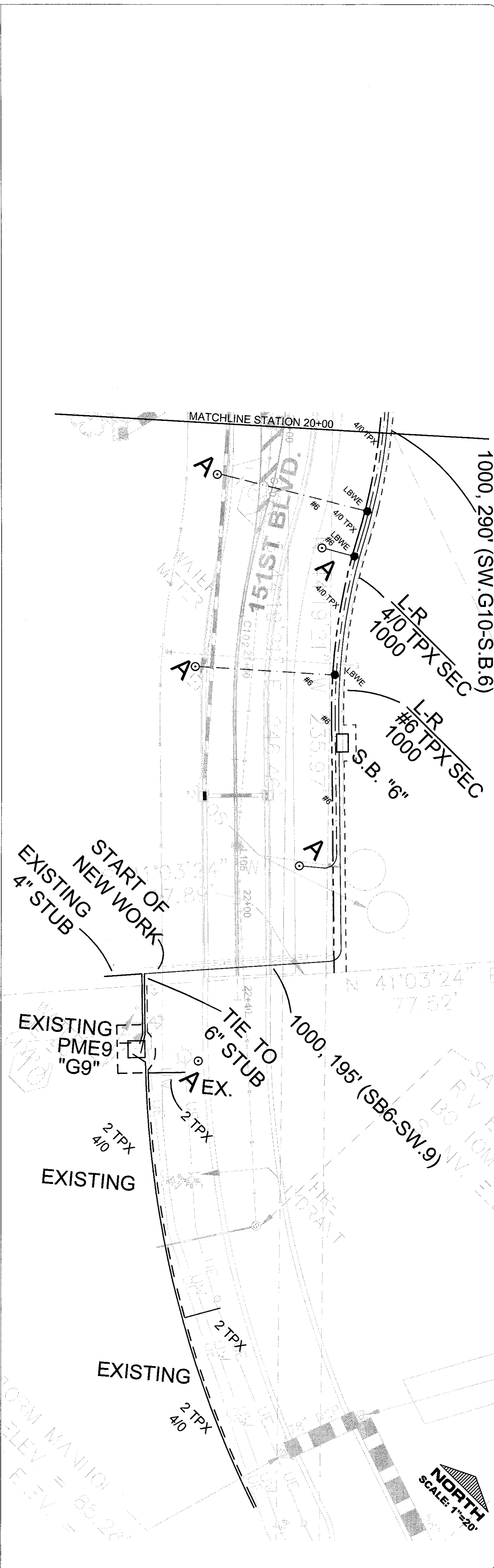
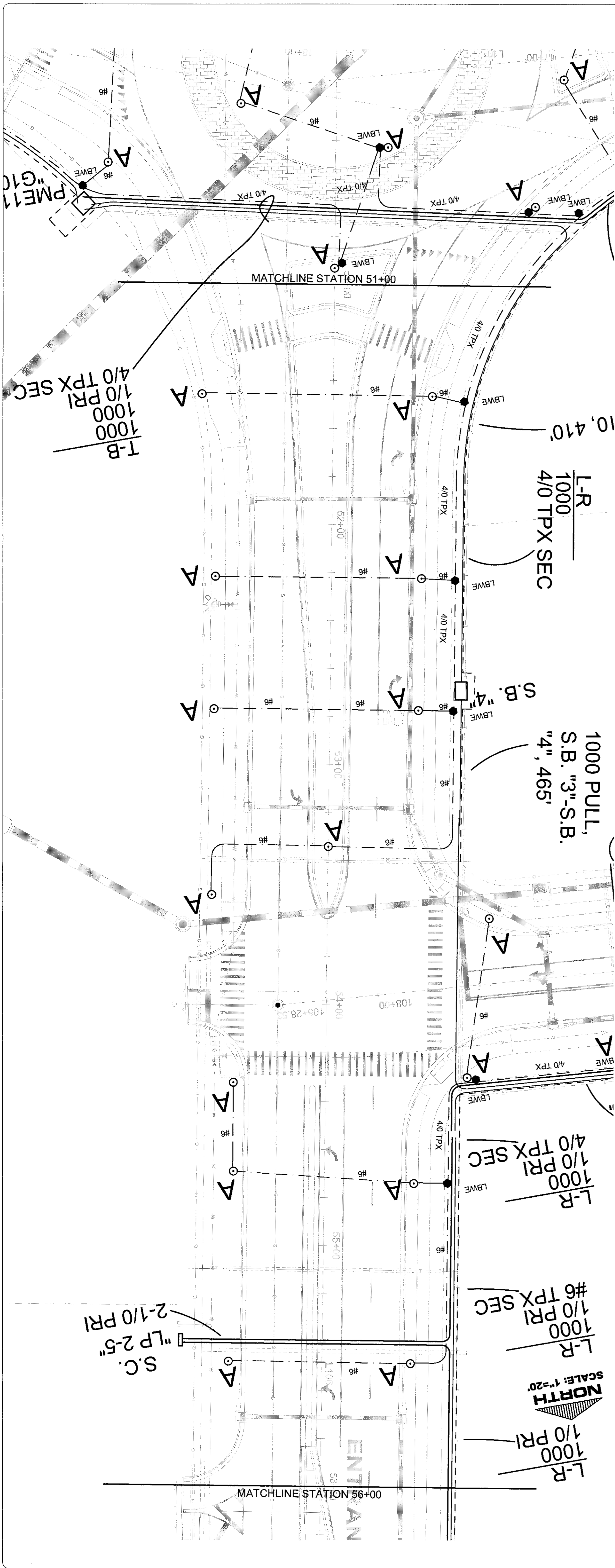
SEAL

WILLIAM T. STORMANT PE - ELECTRICAL ENGINEER
5304 NW 173 Street, Alachua, FL 32615 (352) 472-3642 Lic. # 44156

FILE NO.
DATE
05/26/10
SHEET
E2
OF 9



NORTH
SCALE: 1"=20'



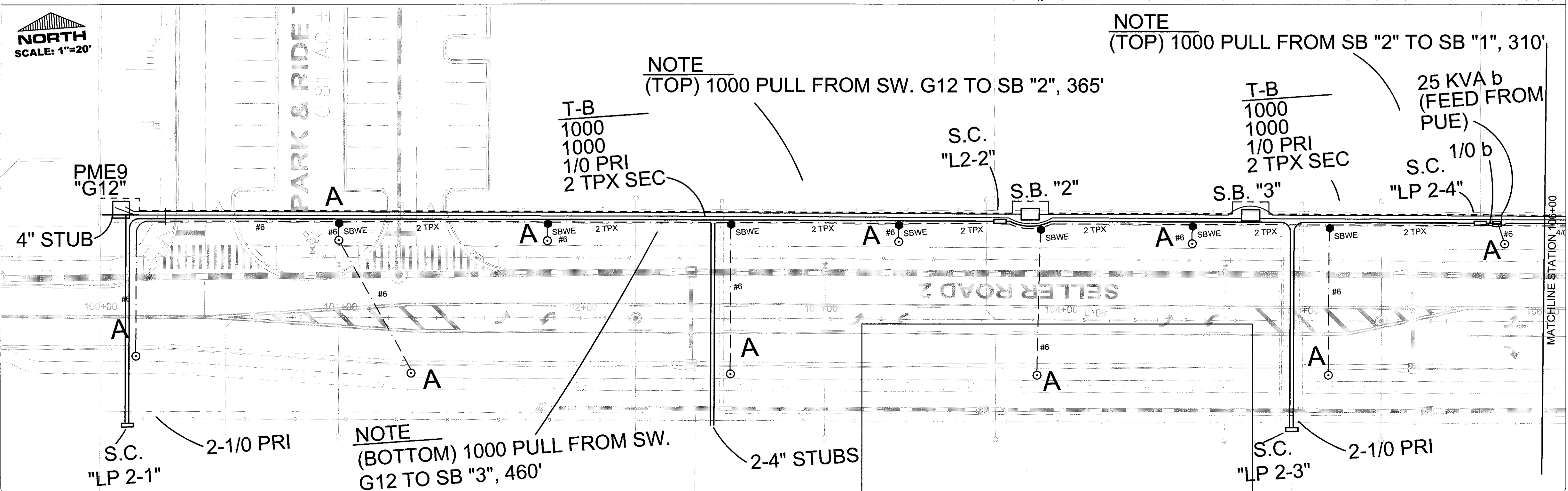
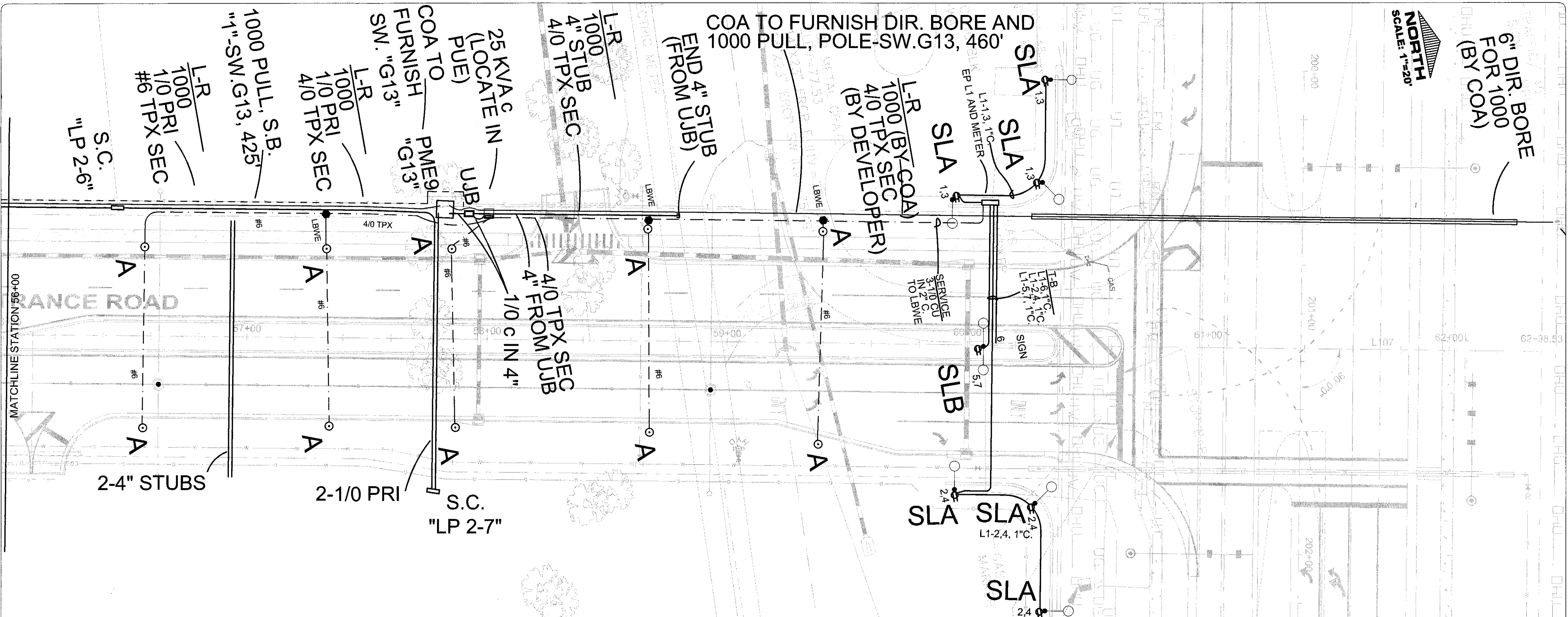
FILE NO.
DATE
SHEET
E3
9

WILLIAM T. STORMANT PE - ELECTRICAL ENGINEER
5304 NW 173 Street, Alachua, FL 32615 (352) 472-3642 Lic. # 44156

SEAL

ALACHUA COMMERCE - WALMART
ELECTRIC UTILITY SYSTEM

SHEET TITLE
REVISIONS
APPROVED
WTS
DRAWN



NOTE
(TOP) 1000 PULL FROM SB "2" TO SB "1", 310'

NOTE
(TOP) 1000 PULL FROM SW. G12 TO SB "2", 365'

T-B
1000
1000
1/0 PRI
2 TPX SEC

25 KVA b
(FEED FROM
PUE)

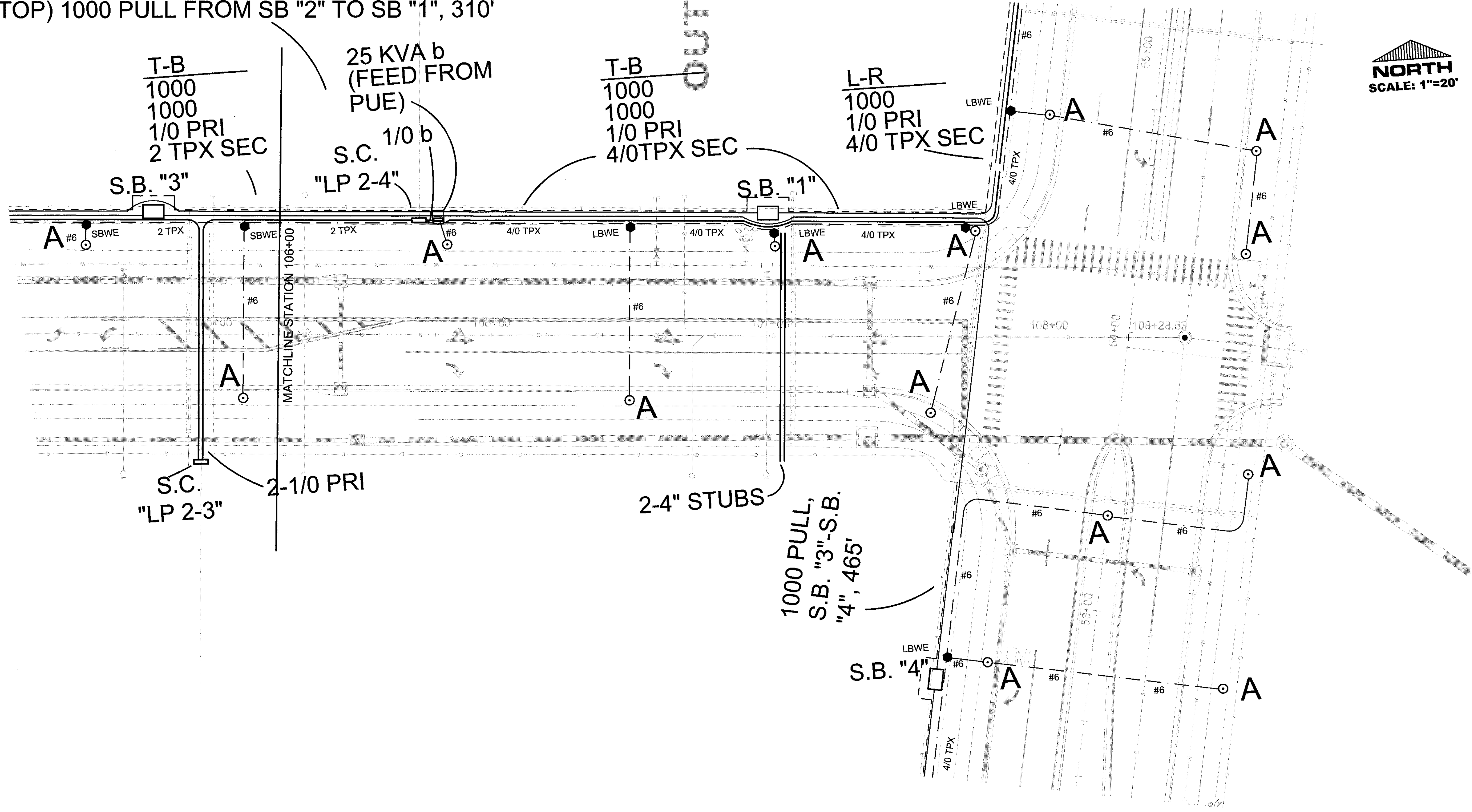
S.C. 1/0 b
"LP 2-4"

NOTE
(BOTTOM) 1000 PULL FROM SW.
G12 TO SB "3", 460'

DRAWN
APPROVED WTS
REVISIONS
SHEET TITLE
ALACHUA COMMERCE - WALMART ELECTRIC UTILITY SYSTEM
SEAL
FILE NO.
DATE 05/26/10
SHEET E4
OF 9

WILLIAM T. STORMANT PE - ELECTRICAL ENGINEER
5504 NW 173 Street, Alachua, FL 32615 (352) 472-3642 Lic. # 44156

NOTE
 (TOP) 1000 PULL FROM SB "2" TO SB "1", 310'



DRAWN
 APPROVED WTS
 REVISIONS

SHEET TITLE

ALACHUA COMMERCE - WALMART
 ELECTRIC UTILITY SYSTEM

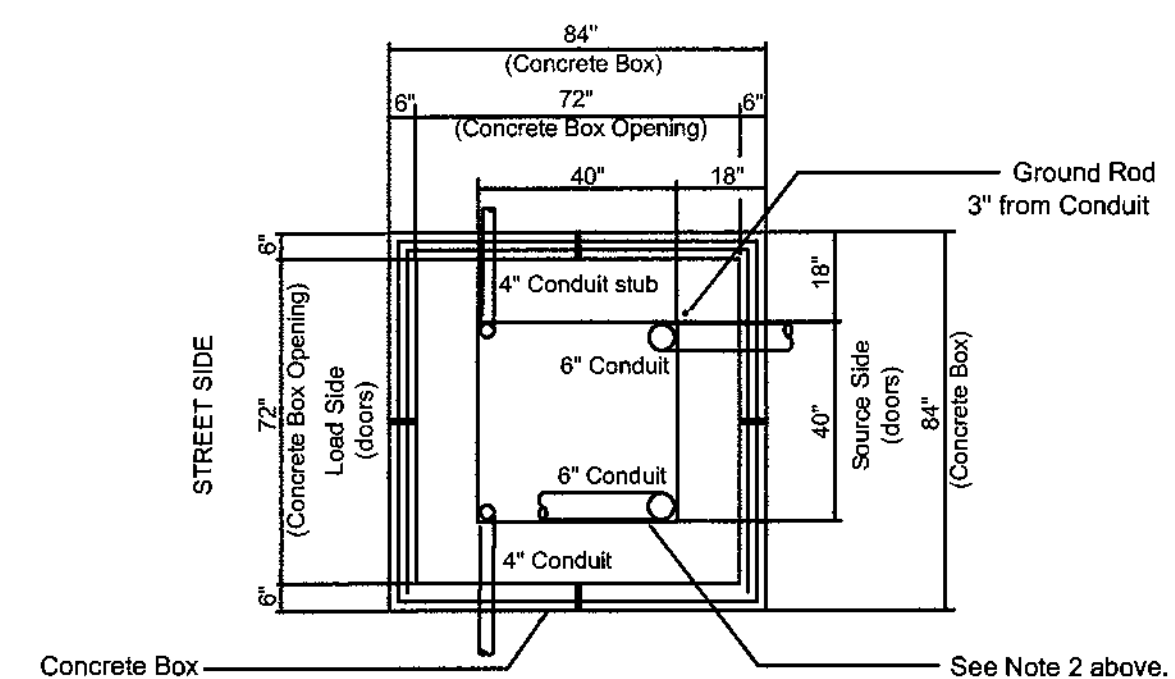
SEAL

WILLIAM T. STORMANT PE - ELECTRICAL ENGINEER
 5304 NW 73 Street, Alachua, FL 32615 Lic. # 44156
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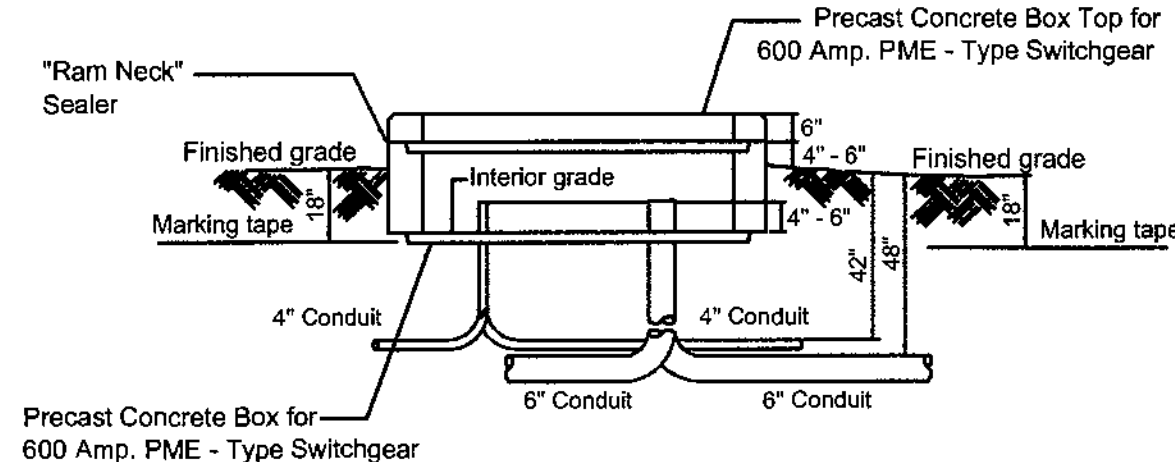
FILE NO.
 DATE 05/26/10
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E5
 OF 9

NOTES:

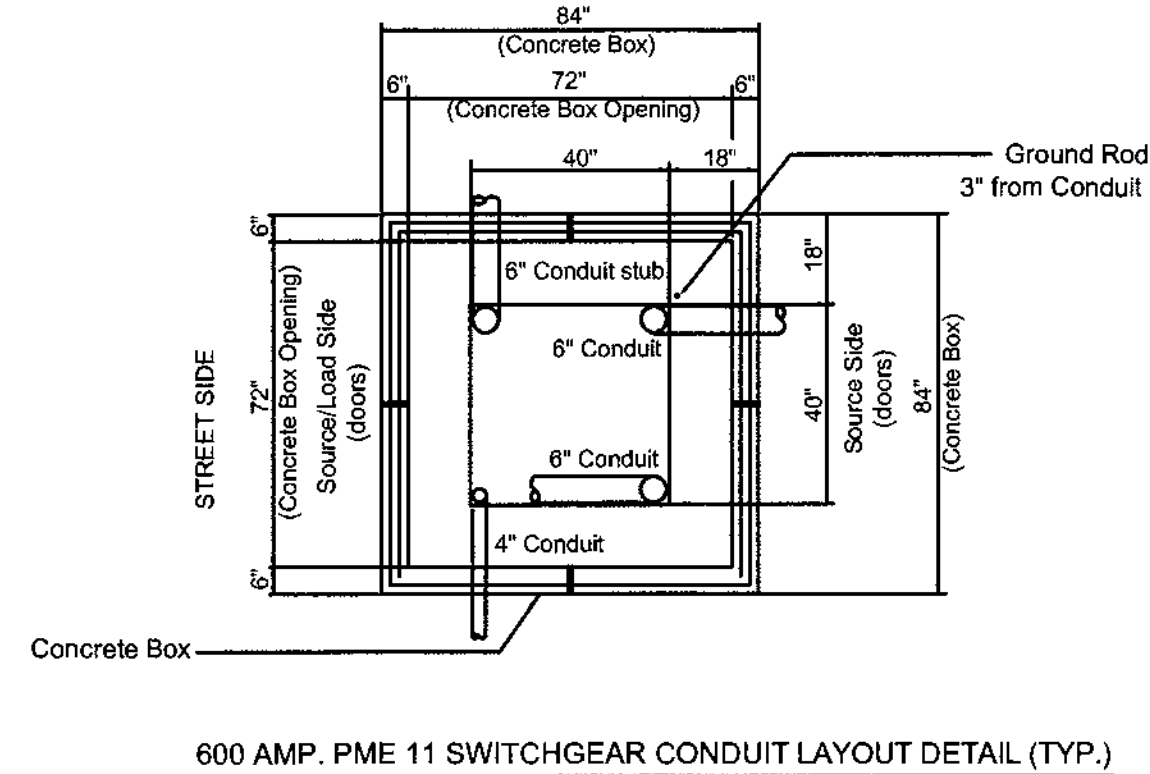
- 1) Contractor shall furnish and install PME9 switchgear, box and top.
- 2) This 48" x 48" area is to be located in the field and used to install conduit before the concrete box is installed. This area shall be laid out by the Contractor installing the conduit.
- 3) Do not cut off elbows.
- 4) For 6" and 4" conduit 48" radius elbow is required, for less than 4" conduit 36" radius elbow is required.



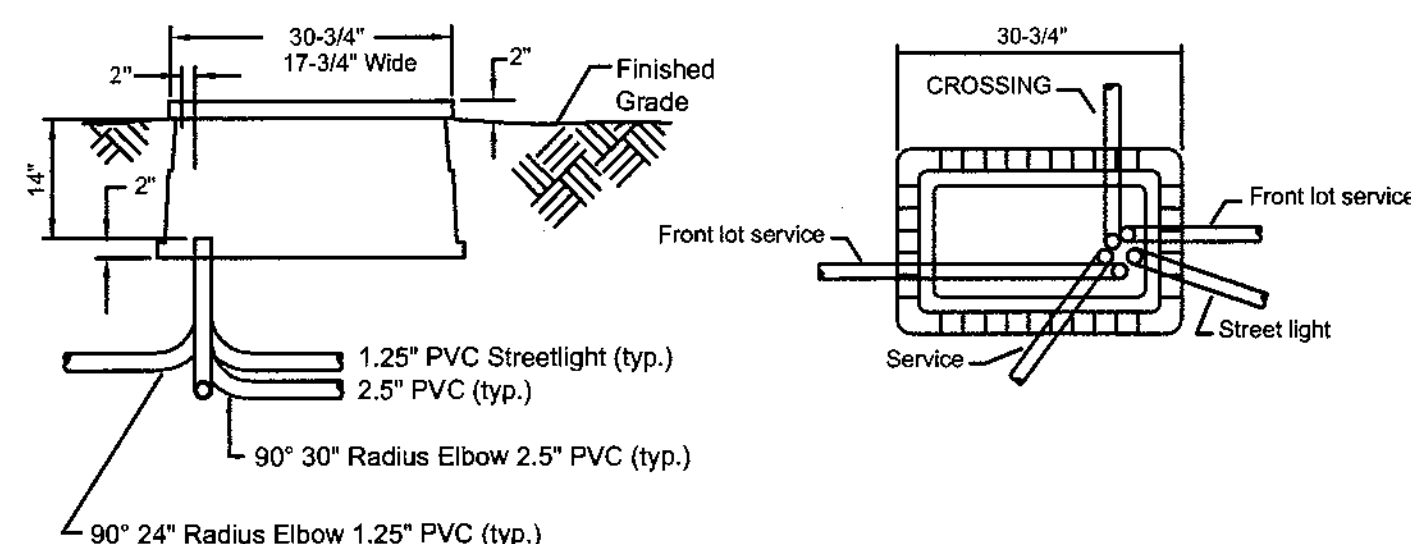
600 AMP. PME 9 SWITCHGEAR CONDUIT LAYOUT DETAIL (TYP.)



600 AMP. PME TYPE SWITCHGEAR INSTALLATION DETAIL (TYP.)



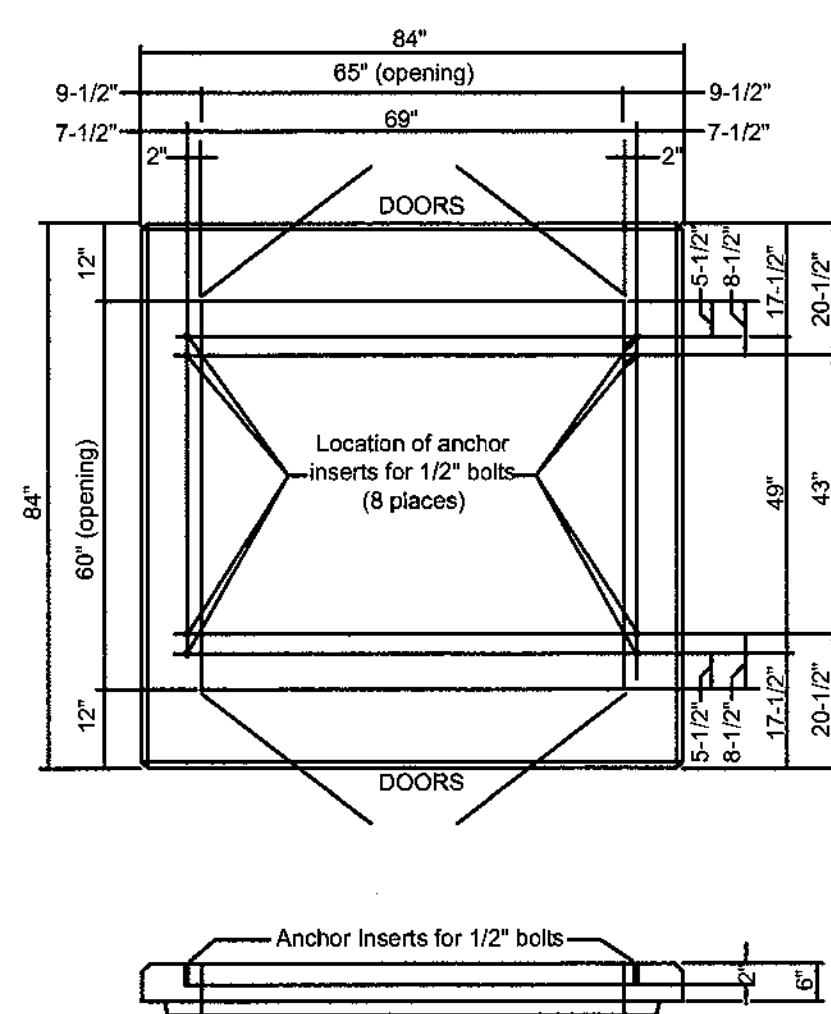
600 AMP. PME 11 SWITCHGEAR CONDUIT LAYOUT DETAIL (TYP.)



LARGE BURIED WIRE ENCLOSURE (LBWE)

NOTES:

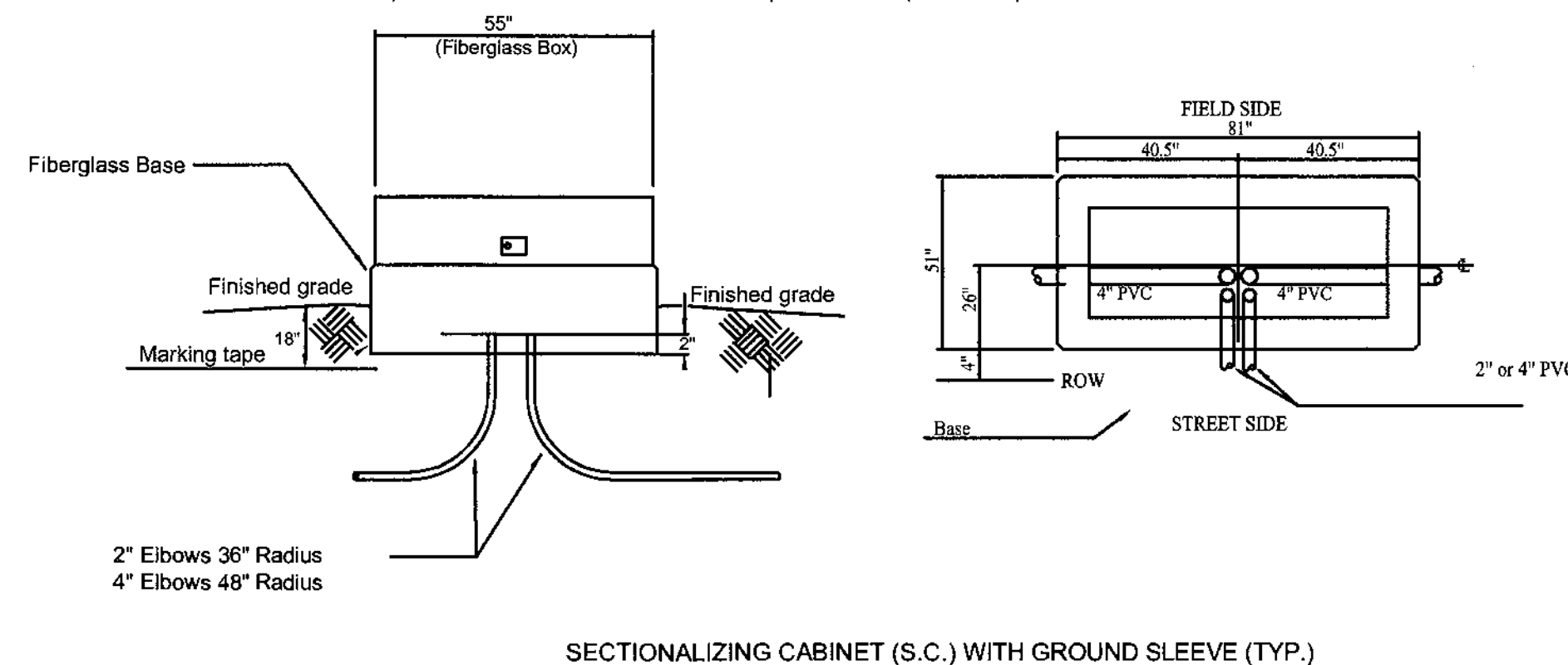
- 1) This drawing details the orientation of the PME 9 switchgear foundation top. Please note the location of the doors and the location of the anchor bolt inserts.
- 2) The most inner anchor inserts (from the center of the top) are used to install the PME 9 switchgear.



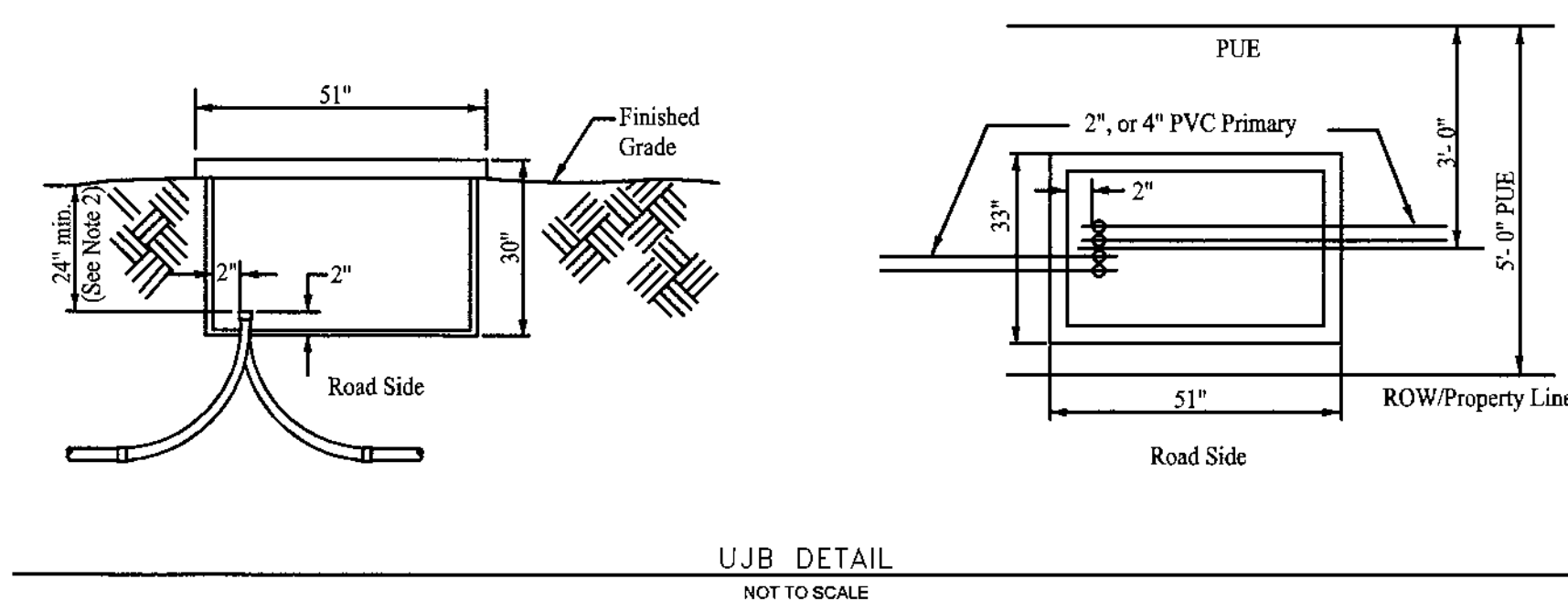
600 AMP. PME 9/11 SWITCHGEAR TOP LAYOUT DETAIL (TYP.)

NOTES:

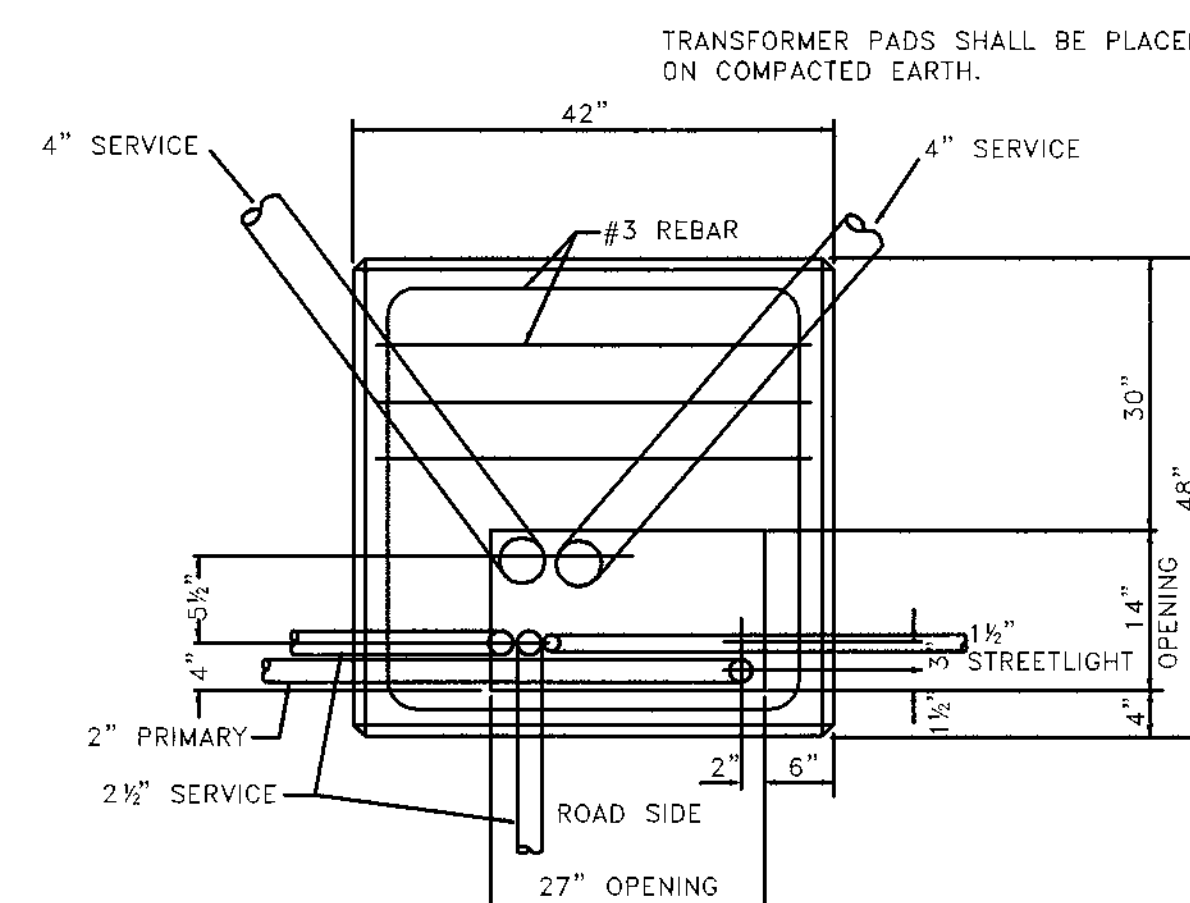
- 1) Do not cut off elbows. Elbows at equipment locations and the conduit system transition to this equipment will be installed deeper than the nominal installation depth to meet turn-up requirements. Elbows shall be turned up in center portion of base.
- 2) 2" or 4" conduit shall be used as shown on the site plan.
- 3) Provide three 4-way junction bars at all locations. Ground per National Electrical Safety Code.
- 4) For 4" conduit, 48" radius elbows are required; for less than 4" conduit 36" radius elbows are required.
- 5) Fiberglass enclosure made by Nordic Fiberglass Catalog # ND552454-MG-101-X-X-215J4U, or approved equal. (TOP 23"Dx55"Wx24"H) (BASE 51"Dx81"Wx30"H)
- 6) The centerline of the base shall be located 2' 6" from right of way line.
- 7) The base flares out to 81" at bottom (Not shown in profile view).



SECTIONALIZING CABINET (S.C.) WITH GROUND SLEEVE (TYP.)

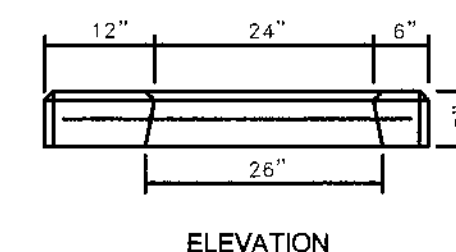


UJB DETAIL
NOT TO SCALE



FIRE HYDRANTS SHALL BE 5'-0" MINIMUM CLEAR FROM TRANSFORMERS.

WARNING:
CONTRACTOR SHALL NOT OPEN TRANSFORMER, PUSH CONDUIT UNDER TRANSFORMER, OR INSTALL CONDUCTORS WHEN TRANSFORMER IS ENERGIZED. LIFE THREATENING ELECTRICAL SHOCK MAY OCCUR.



ELEVATION

TRANSFORMER BUSHINGS WILL ACCOMMODATE UP TO 8 SETS OF 500 KCMIL CONDUCTORS.

SINGLE PHASE TRANSFORMER PAD DETAIL (TYP.)

ELECTRICAL CONDUIT SYSTEM AND CONCRETE PRODUCTS INSTALLATION DETAILS

NOT TO SCALE

CONSTRUCTION NOTES:

- SCOPE OF PROJECT - THE WORK SHALL INCLUDE (BUT NOT BE LIMITED TO) THE FOLLOWING COMPLETE (AND OPERATING) SYSTEMS AND AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.
 - PROVIDE WIRING, CONDUIT, AND EQUIPMENT FOR A COMPLETE AND OPERATING UTILITY-GRADE UNDERGROUND ELECTRICAL DISTRIBUTION AND UTILITY LIGHTING SYSTEM WITHIN THE DEVELOPMENT AT NO COST TO THE CITY OF ALACHUA.
 - PROVIDE ALL WIRING, CONDUIT, POLES, LUMINAIRES, AND EQUIPMENT TO INSTALL A COMPLETE AND OPERATING PRIVATELY OWNED STREET AND AREA LIGHTING SYSTEMS (FIXTURES SLA AND SLB).
 - PROVIDE ALL WIRING, CONDUIT, POLES, LUMINAIRES, AND EQUIPMENT TO INSTALL A COMPLETE AND OPERATING UTILITY OWNED STREET LIGHTING SYSTEM (FIXTURE A).
 - ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS FOR THIS TYPE FACILITY AND MEET CITY OF ALACHUA UTILITIES POLICIES AND PRACTICES.
 - ALL SPECIFICATIONS AND PLANS SHALL BE APPROVED BY THE ELECTRIC DEPARTMENT PRIOR TO BIDDING.
 - "PROVIDE" SHALL MEAN FURNISH, INSTALL, CONNECT, ADJUST, AND TEST EXCEPT WHERE NOTED.
- MATERIALS AND EQUIPMENT SHALL BE NEW AND SUITABLE FOR THE PURPOSE INTENDED. CUT SHEETS SHALL BE SUBMITTED TO THE ELECTRIC DEPARTMENT PRIOR TO ORDERING FOR APPROVAL.
 - UNDERGROUND 15 KV 1/0 AWG AL, 19 STRAND, JACKETED PRIMARY CABLE SHALL HAVE STRAND FILLED CENTRAL CONDUCTOR, SEMI-CONDUCTING CONDUCTOR SHIELD, 175 MIL VIRGIN TREE RETARDANT CROSS-LINKED POLYETHYLENE INSULATION, BLACK CROSS-LINKED POLYETHYLENE SHIELD, FULL CONCENTRIC CU NEUTRAL, WITH INSULATING, BLACK LINEAR LOW DENSITY POLYETHYLENE JACKET EXTRUDED OVER THE NEUTRAL. APPROVED MANUFACTURERS ARE HENDRIX, PIRELLI, PRYSMIAN AND SOUTHWIRE.
 - UNDERGROUND 15 KV 1000 KCMIL AL, 61 STRAND, (3/4 HARD) JACKETED PRIMARY CABLE SHALL HAVE STRAND FILLED CENTRAL CONDUCTOR, SEMI-CONDUCTING CONDUCTOR SHIELD, 175 MIL VIRGIN TREE RETARDANT CROSS-LINKED POLYETHYLENE INSULATION, BLACK CROSS-LINKED POLYETHYLENE SHIELD, 1/3 CONCENTRIC CU NEUTRAL, WITH INSULATING, BLACK LINEAR LOW DENSITY POLYETHYLENE JACKET EXTRUDED OVER THE NEUTRAL. APPROVED MANUFACTURERS ARE HENDRIX, PIRELLI, PRYSMIAN AND SOUTHWIRE.
- UNDERGROUND SECONDARY (PRIVATELY - OWNED SYSTEM) - ALL THHN/THWN-2 COPPER.
 - UNDERGROUND UD SECONDARY ALUMINUM CABLES SHALL HAVE THERMOSETTING XLP INSULATION WITH YELLOW STRIPE TO IDENTIFY NEUTRAL. 1/0 TRIPLEX - CODE WORD MARION OR BRENDA/EYS; 4/0 TRIPLEX - CODE WORD SWEET BRIAR; #2 TRIPLEX AND #6 TRIPLEX. APPROVED MANUFACTURERS ARE HENDRIX, PIRELLI, AND SOUTHWIRE.
- THE LOAD BREAK ELBOWS SHALL HAVE EPDM RUBBER INSULATION. VERIFY CABLE DIMENSIONS FOR APPLICABILITY. APPROVED MANUFACTURERS ARE ELASTIMOLD, COOPER POWER SYSTEMS, AND RTE.
- SINGLE PHASE PAD MOUNTED TRANSFORMERS SHALL BE DEAD FRONT, LOOP FEED CAPABILITY, HIGH VOLTAGE 12470 GRD Y 7200 VOLTS, LOW VOLTAGE 240 GRD Y/120 VOLT, 95 KV BIL, COMPARTMENTAL TYPE, RATINGS BASED ON 65 DEGREE C WINDING RISE, HIGH GRADE, COLD REDUCED, GRAIN ORIENTED SILICON STEEL CORE, 8.3/14.4 KV CLASS BUSHING WELLS AND LOAD BREAK INSERTS, LOW VOLTAGE TERMINALS SHALL BE STUD TYPE, TANK SHALL BE SEALED AND FURNISHED COMPLETE WITH PCB FREE DIELECTRIC OIL, AND DOORS SHALL BE PAD LOCKABLE. TRANSFORMERS SHALL BE PROTECTED WITH A BAYONET FUSE. SHALL BE EQUIPPED WITH A PRESSURE RELIEF DEVICE. ALL TRANSFORMERS SHALL MEET OR EXCEED THE JANUARY 1, 2010 D.O.E. EFFICIENCY LEVELS FOR LIQUID FILLED TRANSFORMERS. TRANSFORMERS WILL BE MOUNTED ON A WINDOWED, PRECAST PAD SUITABLE FOR THE TRANSFORMER. APPROVED PRECAST PAD MANUFACTURERS IS TRENWA OR APPROVED EQUAL. APPROVED TRANSFORMER MANUFACTURERS ARE COOPER SYSTEMS, HOWARD, GENERAL ELECTRIC AND ABB.
- SECONDARY CABLES SHALL BE TERMINATED WITHIN THE TRANSFORMERS ON STUD TYPE TRANSFORMER TERMINALS WITHIN SINGLE PHASE TRANSFORMERS. APPROVED MANUFACTURERS UTILCO, CMC, ESP AND PREFORMED LINE PRODUCTS.
- "SMALL BURIED WIRE ENCLOSURE" (SBWE), SECONDARY JUNCTION BOX SHALL BE MADE OF HIGH DENSITY POLYETHYLENE AND TOP. APPROXIMATE DIMENSIONS 10" TOP DIAMETER, 19" DEPTH. BASIS OF DESIGN PENCELL PLASTICS PE-10H0H EITH ELECTRIC ID.
- "LARGE BURIED WIRE ENCLOSURE" (LBWE) FOR SECONDARY CONNECTIONS SHALL BE MADE OF POLYMER CONCRETE BOX WITH FIBERGLASS COVER. BASIS OF DESIGN CDR SYSTEM CORP. PA10-1730-18.
- 2.9. SECONDARY CONNECTIONS MADE WITHIN ENCLOSURES SHALL BE DIRECT BURIAL, BOLTED TYPE. APPROVED MANUFACTURERS ARE UTILCO, CMC, AND ESP.
- PVC CONDUIT SHALL BE SCHEDULE 40, HEAVY WALL, RATED FOR 90C. CABLE, UL LISTED IN 10 OR 20 FOOT LENGTHS WITH INTEGRAL BELLS. ALL 6" ELBOWS SHALL BE PVC SCHEDULE 80 WITH 48" RADIUS. VERTICAL 6" ELBOWS SHALL BE ANCHORED WITH TWO BAGS OF CEMENT. ALL OTHER ELBOWS SHALL BE PVC SCHEDULE 40 WITH LONG RADIUS SWEEPS.
- PROVIDE PARKING STAND ARRESTORS TO BE INSTALLED AT EACH OPEN POINT AND ELBOW ARRESTORS AT END POINT. APPROVED MANUFACTURER IS ELASTIMOLD.
- ALL TRANSFORMERS SHALL HAVE SCHWEITZER ENGINEERING LABORATORIES (SEL) 3 PHASE FAULT INDICATORS INSTALLED ON B SIDE OF TRANSFORMER. - SHALL BE SEL 3BCRB0200R. NOT APPLICABLE.
- SEE LIGHTING SCHEDULE FOR STREET LIGHT FIXTURE AND POLE SPECIFICATIONS.
- PROVIDE SERVICE ENTRANCE RATED PANEL BOARD WITH 150 AMP MAIN, 22 KAIR, WEATHER PROOF, SINGLE PHASE 120/240V RATED. SHALL BE SQUARE D, QO LOAD CENTER.
 - PME 9 PAD-MOUNTED SWITCHGEAR SHALL BE ELBOW CONNECTED (DEADFRONT) AND SHALL HAVE TWO THREE-PHASE 600 AMP EXTERNALLY OPERATED THREE POLE SWITCHES AND TWO THREE-PHASE 200 AMP HOOKSTICK OPERATED FUSED TAPS. PROVIDE SMU-20 FUSE HOLDERS. THE CABINET SHALL BE ALL WELDED STAINLESS STEEL WITH STAINLESS STEEL HARDWARE AND SHALL HAVE ANTI-CONDENSATION ROOF UNDERCOATING. FINISH COLOR SHALL BE PAD-MOUNT GREEN ANSI-32 (MUNSELL NOTATION 7GY3.29/1.5). PROVIDE SEL 3BCRB06000R FAULT INDICATORS ON 600 AMP CONDUCTORS. ALL BUSHING MUST BE PROVIDED. APPROVED MANUFACTURERS: S&C ELECTRIC CO. 65152R1-A14-F14 WITH 90362. PROVIDE 100E FUSES FOR 200 AMP POSITIONS.
 - PME 11 PAD-MOUNTED SWITCHGEAR SHALL BE ELBOW CONNECTED (DEADFRONT) AND SHALL HAVE THREE THREE-PHASE 600 AMP EXTERNALLY OPERATED THREE POLE SWITCHES AND ONE THREE-PHASE 200 AMP HOOKSTICK OPERATED FUSED TAPS. PROVIDE SMU-20 FUSE HOLDERS. THE CABINET SHALL BE ALL WELDED STAINLESS STEEL WITH STAINLESS STEEL HARDWARE AND SHALL HAVE ANTI-CONDENSATION ROOF UNDERCOATING. FINISH COLOR SHALL BE PAD-MOUNT GREEN ANSI-32 (MUNSELL NOTATION 7GY3.29/1.5). PROVIDE SEL 3BCRB06000R FAULT INDICATORS ON 600 AMP CONDUCTORS. ALL BUSHING MUST BE PROVIDED. APPROVED MANUFACTURERS: S&C ELECTRIC CO. 65162R1-A14-F14 WITH 90362. PROVIDE 100E FUSES FOR 200 AMP POSITIONS.
 - PME9 AND PME 11 SWITCHES SHALL BE PLACED ON PAD-MOUNTED SWITCHGEAR SHALL BE PLACED ON PRECAST BOX AND TOP. PRECAST BOX SHALL BE 5000 PSI CONCRETE MADE BY SOUTHERN PRECAST INC. CATALOG NUMBER SPSWB0016X6 WITH SPGRUPME911 TOP.
 - PME 11 PAD-MOUNTED SWITCHGEAR SHALL BE ELBOW CONNECTED (DEADFRONT) AND SHALL HAVE THREE THREE-PHASE 600 AMP EXTERNALLY OPERATED THREE POLE SWITCHES AND ONE THREE-PHASE 200 AMP HOOKSTICK OPERATED FUSED TAPS. PROVIDE SMU-20 FUSE HOLDERS. THE CABINET SHALL BE ALL WELDED STAINLESS STEEL WITH STAINLESS STEEL HARDWARE AND SHALL HAVE ANTI-CONDENSATION ROOF UNDERCOATING. FINISH COLOR SHALL BE PAD-MOUNT GREEN ANSI-32 (MUNSELL NOTATION 7GY3.29/1.5). PROVIDE SEL 3BCRB06000R FAULT INDICATORS ON 600 AMP CONDUCTORS. ALL BUSHING MUST BE PROVIDED. APPROVED MANUFACTURERS: S&C ELECTRIC CO. 65162R1-A14-F14 WITH 90362. PROVIDE 100E FUSES FOR 200 AMP POSITIONS.
- UNDERGROUND JUNCTION BOX "LUB" SHALL BE MADE OF CORRUGATED POLYESTER WALLS AND POLYMER CONCRETE COLLAR AND TOP. BASIS OF DESIGN CDR SYSTEM CORP. PA10-3038-30.
- ALL HORIZONTAL DIRECTIONAL DRILLING(HDD) MATERIALS AND METHODS SHALL MEET THE REQUIREMENTS OF THE CURRENT SECTION 555 - HORIZONTAL BORE OF THE FDOT STANDARD SPECIFICATIONS. MATERIALS SHALL BE IN ACCORDANCE WITH ASTM D3350.
- ALL DIRECTIONAL BORING PIPE SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) THAT MEETS ASTM D3350 WITH SDR 13.5 AND SHALL BE BLACK WITH THREE CONTINUOUS RED STRIPES 120 DEGREES APART. APPROVED MANUFACTURERS: PETROFLEX, PERFORMANCE PIPE, CSR POLYPIPE, CARLON A16C9N1A3KA766.
- HDD TRANSITION COUPLINGS SHALL BE PROVIDED FOR HDPE PIPE TO SCHEDULE 40 PVC ELECTRICAL CONDUIT.
- 1000 KCMIL SPLICE BOX "S.B." IS A BURIED CONCRETE BOX WITH OUTSIDE DIMENSIONS OF 88"x58"x36" DEEP WITH A 6" THICK CONCRETE LID THE BOX AND LID ARE HS20 TRAFFIC RATED-32,000#/AXLE. BOX SHALL BE EQUIPPED WITH 2-6" BELL ADAPTERS ON EACH END AND TWO PULLING EYES ON EACH END. LID SHALL BE REINFORCED WITH #5 REBAR. PROVIDE SPLICE BOX FROM TRENWA INC. DRAWING 320182 AND PROVIDE LID FROM TRENWA INC. DRAWING 320187.

GENERAL NOTES:

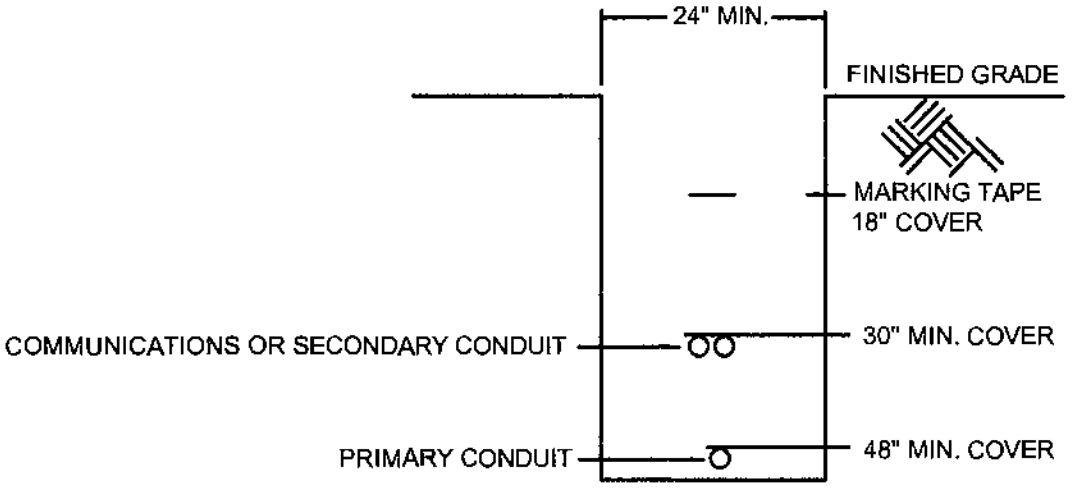
THE DRAWINGS ARE IN PART DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE SCOPE OF THE WORK, INDICATE THE GENERAL LOCATION AND ARRANGEMENT OF CONDUIT AND PADS OR BASES, AND THE LIKE. IT IS NOT INTENDED TO SHOW IN MINUTE DETAIL EVERY AND ALL ACCESSORIES REQUIRED AT EACH LOCATION FOR THE EXECUTION OF THE WORK, BUT IT IS INTENDED THAT ALL ACCESSORIES REQUIRED FOR A COMPLETE SYSTEM BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

EXAMINE ALL DRAWINGS FOR COORDINATION AND ALLOCATION OF SPACE AND AVOID INTERFERENCE WITH SURROUNDS. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS PRACTICAL IN PERFORMING THE WORK. DISCREPANCIES BETWEEN THE ELECTRICAL CONDUIT SYSTEM AND WORK OF OTHER TRADES SHALL BE COORDINATED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AND AS REQUIRED BY FIELD CONDITIONS.

DISCREPANCIES DISCOVERED DURING THE BID PROCESS SHALL BE REFERRED TO THE ENGINEER PRIOR TO SUBMITTING A BID. THE ENGINEER WILL ISSUE INSTRUCTIONS BY ADDENDUM WHEN NECESSARY. INTERPRETATION OF THE DRAWINGS WILL BE BY THE ENGINEER.

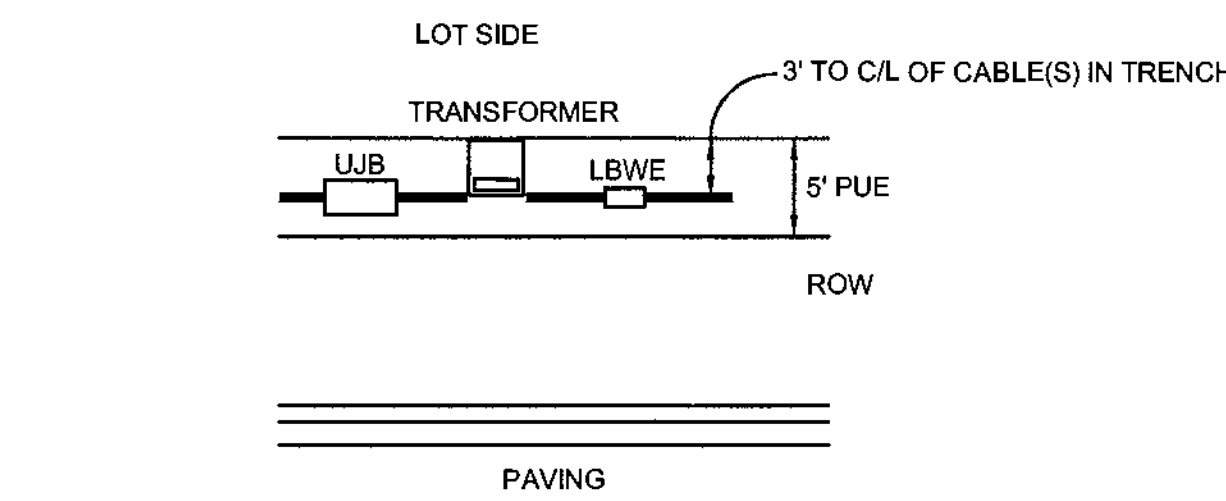
CHANGES FROM THE DRAWINGS THAT ARE NECESSARY TO MAKE WORK CONFORM TO FIELD CONDITIONS, TO FIT WORK OF OTHER TRADES, OR TO RULES OF BODIES HAVING JURISDICTION, WILL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. IN CASE OF DISPUTE, THE ENGINEER WILL RENDER A DECISION ON HOW TO PROCEED.

WARNING TAPE SHALL BE RED WITH CONTINUOUS BLACK MARKINGS
 *CAUTION CAUTION - CITY OF ALACHUA - ELECTRIC LINE BURIED BELOW
 SHALL BE ALLENSYSTEM "MARKLINE" OR EQUAL REEFINDUSTRIES OR THORENTERPRISES.



TYPICAL CONDUIT TRENCH DETAIL

NOT TO SCALE

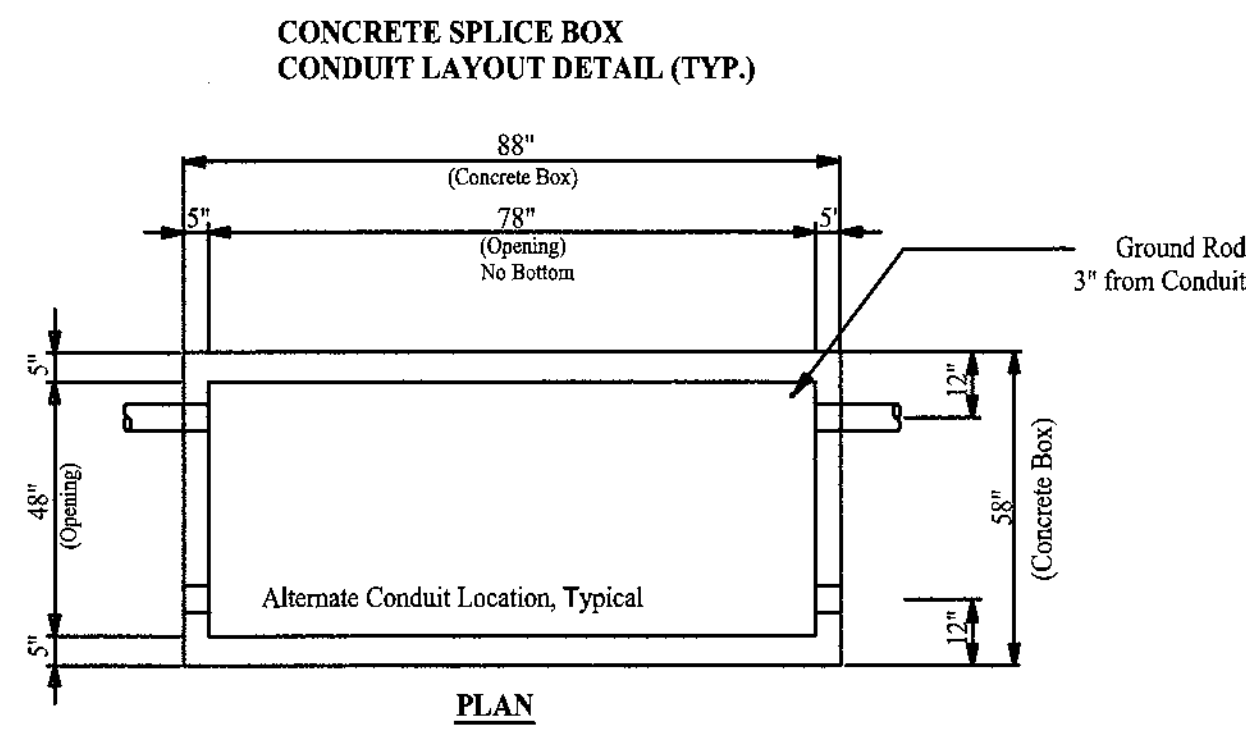


TYPICAL ELECTRIC UTILITY ALLOCATION

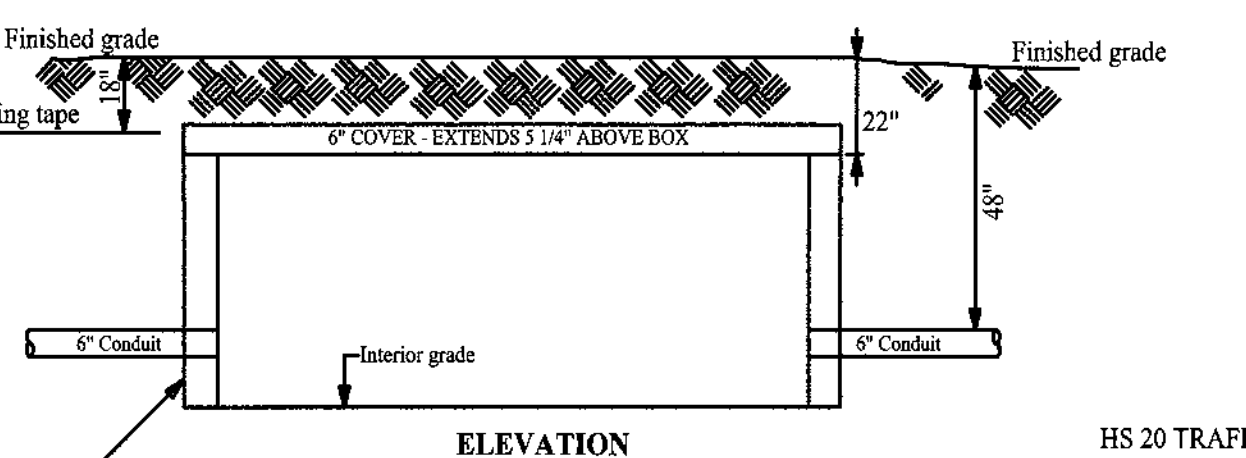
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ELECTRICAL UTILITIES LEGEND

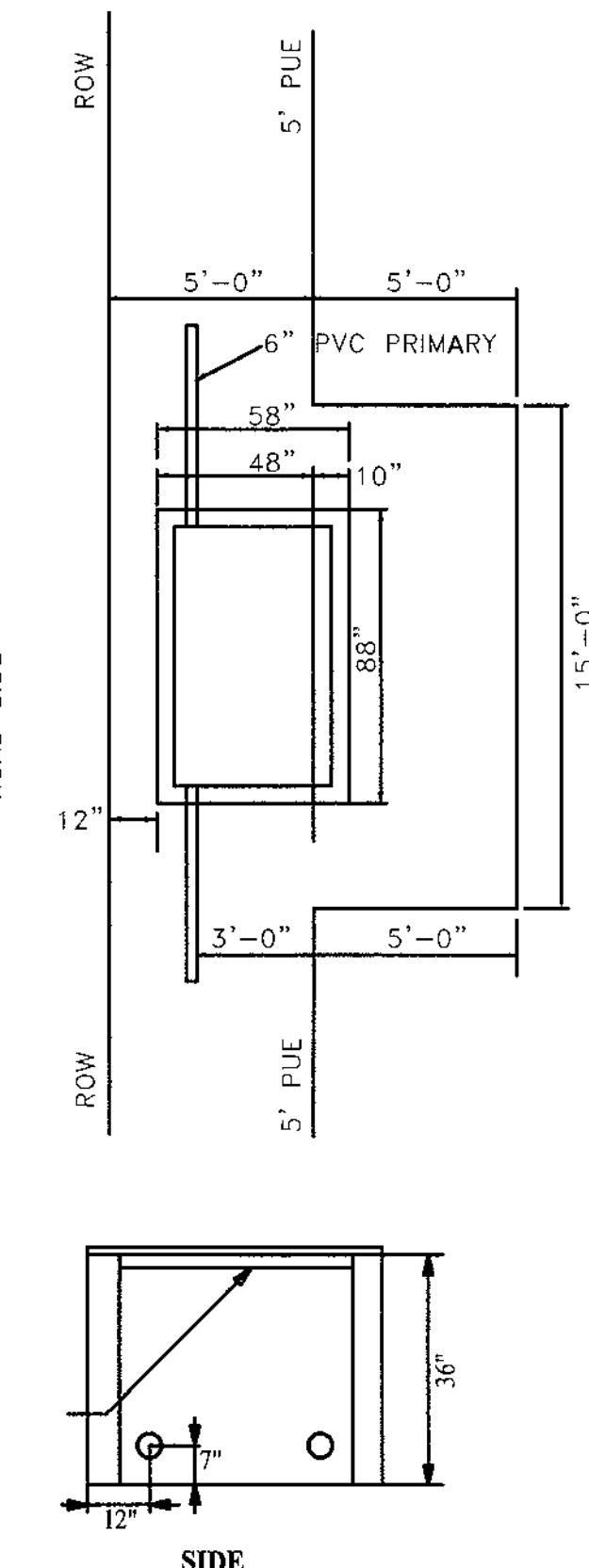
- 50 KVA b [Symbol] TRANSFORMER ON CONCRETE PAD, 50 KVA PHASE b, 120/240 VOLT SINGLE PHASE SECONDARY.
 - PME9 [Symbol] PRIMARY SWITCHGEAR PME9 OR PME11 ON CONCRETE BASE WITH TOP.
 - 1/0 PRI [Symbol] 3-1/0 AL PRIMARY CABLE IN 4" PVC AT 48" MIN. COVER
 - 1/0 c [Symbol] SINGLE PHASE 1/0 AL PRIMARY CABLE IN 4" PVC AT 48" MIN. COVER "c" DENOTES C PHASE.
 - 1000, 450' [Symbol] 3-1000 KCMIL AL PRIMARY CABLE IN 6" PVC AT 48" MIN. COVER. "450" DENOTES TRENCH LENGTH OF 6" PVC.
 - 6" DIR. BORE [Symbol] 6" HDPE DIRECTIONAL BORE UNDER PAVING
 - 4/0TPX SEC [Symbol] SECONDARY CONDUCTORS AT 36" MIN. CONDUCTOR SIZE AND QUANTITY AS MARKED. FOR PRIVATE LIGHTING SYSTEM REFER TO PANEL SCHEDULES FOR QUANTITY AND SIZE OF CONDUCTORS. CONDUIT FOR 4/0 IS 2 1/2", #2 IS 2", AND #6 IS 1 1/4". #6 TPX IS INDICATED AS "#6" ON THE PLANS.
 - [Symbol] SBWE SMALL BURIED WIRE ENCLOSURE, APPROXIMATELY 10" DIA. X 19" DEEP. (TYPICALLY FOR STREETLIGHTING FEEDS - INCLUDED BUT NOT SHOWN ON TYPE "A" LIGHTS)
 - [Symbol] LBWE LARGE BURIED WIRE ENCLOSURE, APPROXIMATELY 30" X 17" X 16" DEEP. TYPICALLY FOR LARGER SECONDARY CONNECTIONS E.G. 4/0 TPX.
 - [Symbol] UB JUNCTION BOX 30" X 48" X 30" DEEP - FOR 1/0 PRIMARY CONNECTIONS.
 - [Symbol] PANEL L1 PRIMARY SECTIONALIZING CABINET ON FIBERGLASS BASE - FOR 1/0 PRIMARY VOLTAGE LOOP - WILL BE SOURCE FOR COMMERCIAL LOT TRANSFORMERS.
 - [Symbol] HOMERUN TO PANELBOARD. "L1" INDICATES THE PANELBOARD NUMBER. "1.3" INDICATES THE BRANCH CIRCUIT NUMBERS. NOTE: SIZE AND QUANTITY OF CONDUCTORS CAN VARY, SEE PANEL SCHEDULES FOR SIZE AND QUANTITY.)
 - [Symbol] ELECTRIC UTILITY METER SOCKET AND ELECTRICAL PANEL- PROVIDE, SEE PANEL SCHEDULE FOR DETAILS. PROVIDE SERVICE CONDUCTORS TO LBWE.
 - [Symbol] S.B. SPLICE BOX 88" X 58" X 36" DEEP (NOMINAL DIMENSIONS) CONCRETE WITH TRAFFIC RATED TOP. BURIED WITH 22" OF COVER. USED TO SPLICE 1000 KCMIL CABLES.
- SEE LIGHTING LEGEND FOR "A", "SLA" AND "SLB" DESCRIPTION AND SPECS.



CONCRETE SPLICE BOX CONDUIT LAYOUT DETAIL (TYP.)



ELEVATION



SIDE

1000 MCM SPLICE BOX DETAILS - "S.B."

NOT TO SCALE

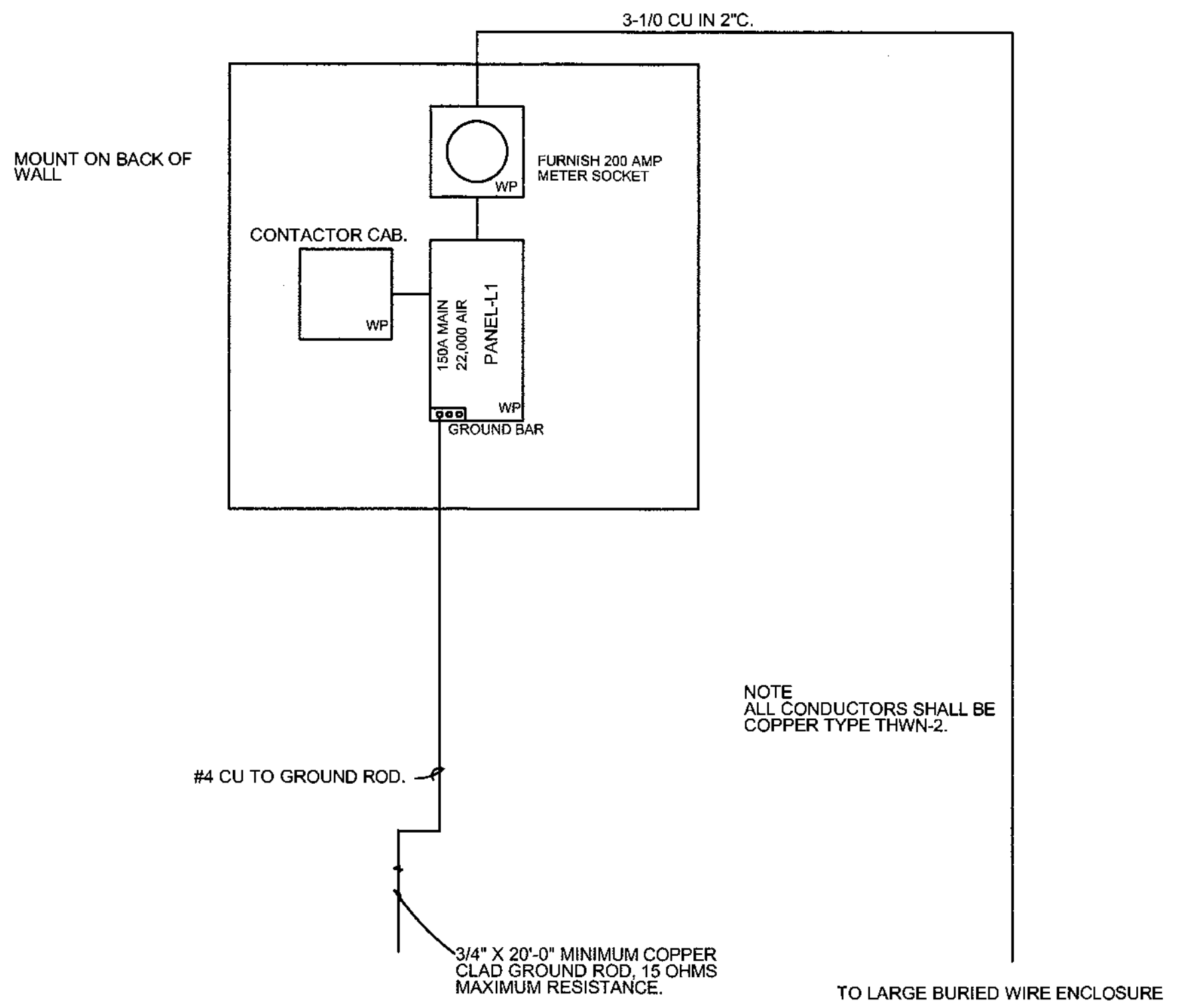
DRAWN
 APPROVED WTS
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 SHEET TITLE
ALACHUA COMMERCE - WALMART
 ELECTRIC UTILITY SYSTEM
 SEAL
 WILLIAM T. STORMANT PE - ELECTRICAL ENGINEER
 5304 NW 73 Street, Alachua, FL 32615 (352) 472-3642 Lic. # 44156
 FILE NO.
 DATE 05/26/10
 SHEET
E7
 OF 9

BRANCH CIRCUIT PANELBOARD SCHEDULE PANEL L1

FOR 240/120 VOLT, SINGLE PHASE, 3-WIRE SERVICE. PROVIDE ALL SPARE BREAKERS AND GROUND BAR.
150 AMP. MAIN BREAKER, 22,000 AIR SYMMETRICAL FULLY RATED ALL BREAKERS. 100% NEUTRAL.

SERVING	WIRE			BREAKER AMP	CIR NO	CONNECTED LOAD VA		CIR NO	BREAKER POLES	AMP	WIRE			SERVING
	HOT	NEUT	GRD			VA	VA				GRD	NEUT	HOT	
LIGHTING WEST	10	10	10	20	1	978	978	2	1	20	10	10	10	LIGHTING EAST
RECEP GFI - WEST	10	10	10	20	1	540	540	4	1	20	10	10	10	RECEP GFI - EAST
LIGHTING CENTER	10	10	10	20	1	652	500	6	1	20	10	10	10	SIGN
RECEP GFI - CENTER	10	10	10	20	1	180		8						SPACE
TIMER CONTROLS	12	12	12	20	1	180		10						SPACE
SPARE				20	1			12						SPACE
SPARE				20	1			14						SPACE
SPARE								15						SPACE
SPARE								16						SPACE
SPARE								17						SPACE
SPARE								18						SPACE
SPARE								19						SPACE
SPARE								20						SPACE

TIMER = 180 VA
RECEP = 1250 VA
LIGHTING X 1.25 = 3855 VA
TOTAL = 5325 VA (23 AMP.)
PROVIDE 3-1/0 CU THWN-2 IN 2" C.



ELECTRICAL DISTRIBUTION ONE LINE DIAGRAM

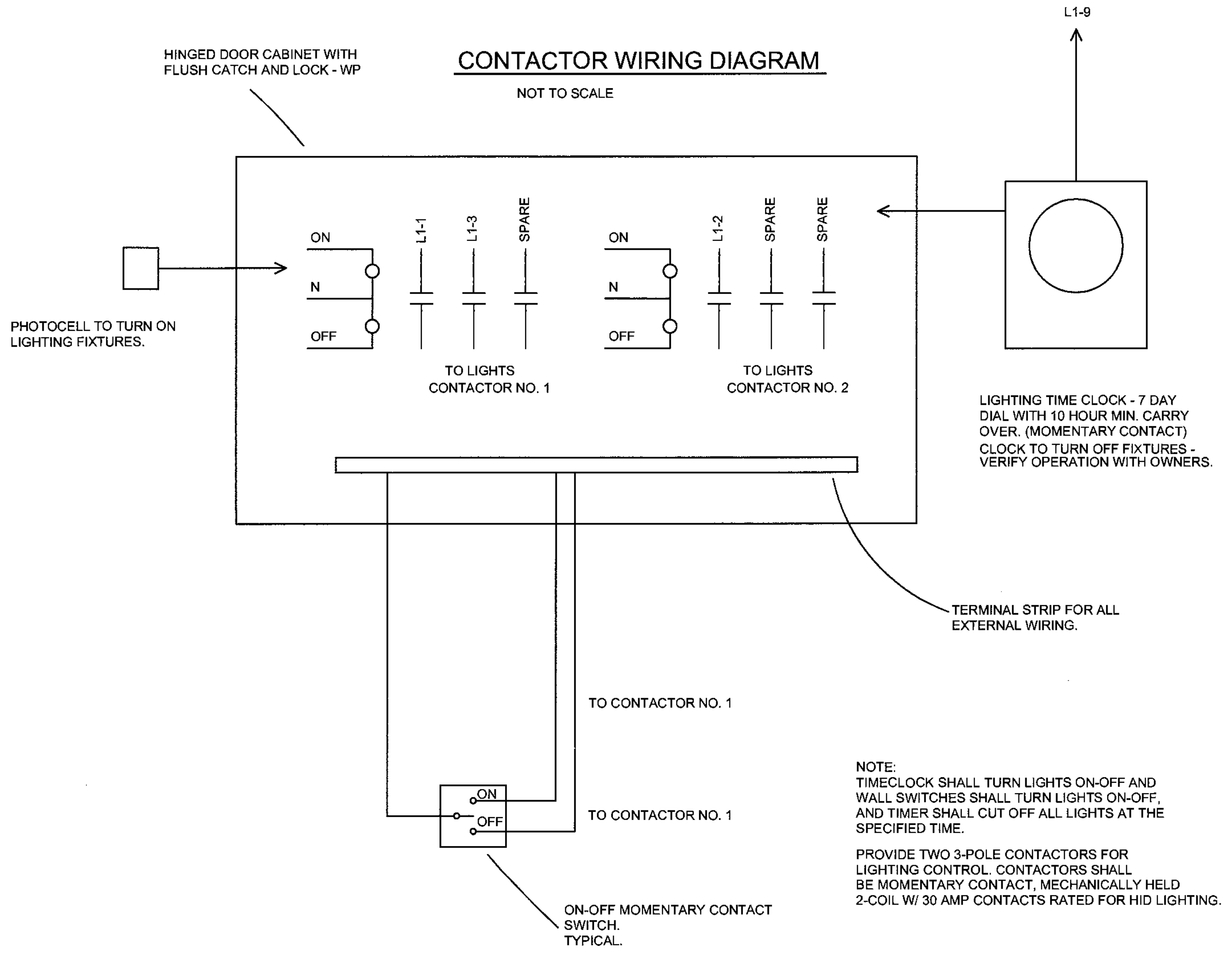
NOT TO SCALE

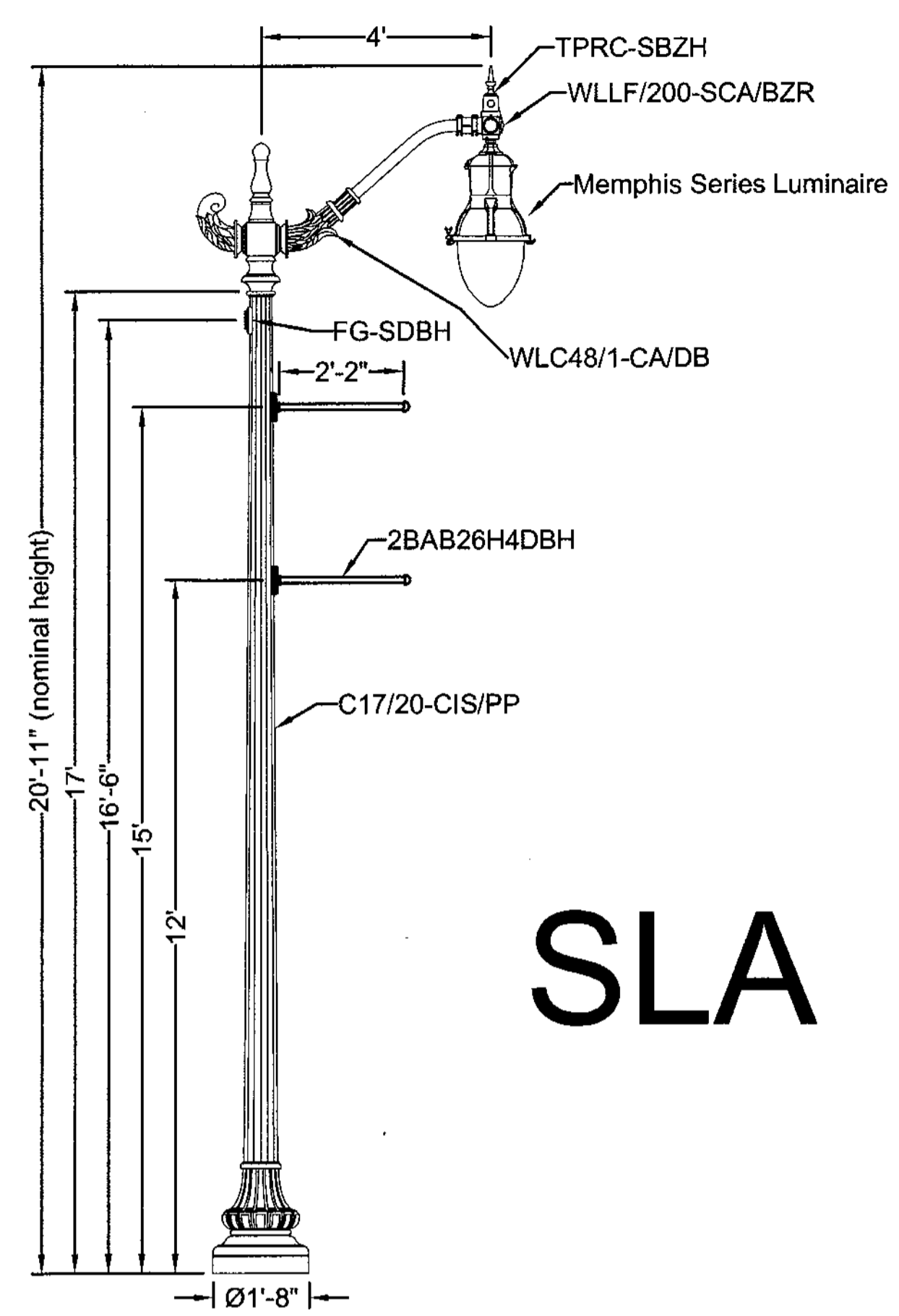
ELECTRICAL SPECIFICATIONS - PRIVATE SYSTEM

- A. GENERAL
- PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND NECESSARY ITEMS FOR A COMPLETE AND OPERATING SYSTEM. OBTAIN AND PAY ALL FEES AND PERMITS REQUIRED TO INSTALL A COMPLETE ELECTRICAL SYSTEM.
 - IT IS THE INTENT OF THESE DRAWINGS TO PROVIDE A COMPLETE ELECTRICAL SYSTEM, REGARDLESS OF WHETHER EACH INDIVIDUAL COMPONENT IS MENTIONED OR NOT.
 - THE WORK SHALL COMPLY WITH ALL LEGALLY REQUIRED CODES AND STANDARDS, INCLUDING:
 - NFPA 70, NATIONAL ELECTRICAL CODE, LATEST ADOPTED EDITION.
 - NECA STANDARD OF INSTALLATION.
 - NATIONAL ELECTRICAL SAFETY CODE.
 - FLORIDA BUILDING CODE 2004 AND REVISIONS.
 - NFPA 101
 - ADA
 - CITY OF ALACHUA UTILITY COMPANY STANDARDS AND POLICIES.
 - UNDERWRITER'S LABORATORY STANDARDS (UL).
 - OTHER APPLICABLE CODES AND STANDARDS THAT APPLY TO THIS TYPE OF CONSTRUCTION.
- B. MATERIALS AND WORKMANSHIP
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIMELY PLACEMENT OF ALL CONDUITS AND OTHER WIRING DEVICES AS THE CONSTRUCTION PROGRESSES.
 - PRIVATE LIGHTING SYSTEM SHALL BE CONTROLLED BY PHOTO CELL AND CONTACTORS AT PANEL.
 - WIRING SYSTEMS SHALL BE AS FOLLOWS:
 - UNDERGROUND SCHEDULE 40 PVC.
 - EMT WHERE PERMITTED BY CODE.
 - RIGID GALVANIZED STEEL WHERE REQUIRED BY CODE.
 - FLEXIBLE STEEL CONDUIT WHERE REQUIRED, LIQUID TIGHT WHERE REQUIRED.
 - SECONDARY CONDUCTORS SHALL BE COPPER TYPE THHN/THWN-2.
 - PARKING LOT LIGHT HOME RUNS SHALL BE CONNECTED TO HOUSE PANELS AS INDICATED ON DRAWINGS.
 - ALL METAL BOXES, CABINETS, CONDUIT, EQUIPMENT, ETC. SHALL BE GROUNDED AS REQUIRED BY CODE. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR ALL CIRCUITS.
 - ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ITEMS AND EQUIPMENT SHOWN AS PART OF THE GENERAL CONTRACT WHICH REQUIRE ELECTRICITY, INCLUDING CONTROL WIRING AND WIRING TO CONNECT EXISTING EQUIPMENT.
 - ALL MATERIAL SHALL BE NEW AND UL APPROVED, LISTED, OR LABELED.
 - ALL ELECTRICAL EQUIPMENT AND SYSTEMS SHALL BE TESTED AND ADJUSTED FOR PROPER OPERATION. COMPLETE WIRING SYSTEM SHALL BE FREE OF SHORT CIRCUITS.
 - CONTRACTOR SHALL MAKE COMPLETE CONNECTIONS TO ALL EQUIPMENT. COORDINATE WITH EQUIPMENT SUPPLIER FOR EXACT LOCATIONS AND REQUIREMENTS.
 - ALL ELECTRICAL EQUIPMENT, DEVICES, ETC. LOCATED OUTDOORS SHALL BE WEATHERPROOF.
 - PROVIDE AN INSULATED GROUNDING CONDUCTOR IN ALL FEEDER AND BRANCH CIRCUITS.
 - EXISTING UTILITIES AND OTHER UNDERGROUND OR CONCEALED ITEMS ARE SHOWN FOR REFERENCE ONLY. ADDITIONAL ITEMS NOT SHOWN MAY BE PRESENT AND LOCATIONS MAY DIFFER FROM THAT SHOWN. CONTRACTOR SHALL EXCAVATE AND CONDUCT DEMOLITION SO AS TO AVOID DAMAGE TO EXISTING ITEMS, SHALL NOTIFY OWNER AND ENGINEER AT ONCE OF ALL DAMAGE AND SHALL REPAIR DAMAGE TO ORIGINAL CONDITION TO THE SATISFACTION OF OWNER AND ENGINEER AT NO CHANGE IN CONTRACT AMOUNT.
 - CAREFUL COORDINATION WITH OTHER DIVISIONS DURING INSTALLATION OF ARCHITECTURAL AND STRUCTURAL ELEMENTS IS NECESSARY TO INSTALL CONCEALED CONDUIT IN MANY AREAS. CONDUIT SHALL BE CONCEALED AS MUCH AS POSSIBLE - COORDINATE WITH STRUCTURAL DRAWINGS AND OTHER DIVISIONS WHEN INSTALLING CONDUIT. WHERE EXPOSED CONDUIT IS NECESSARY IT SHALL BE INSTALLED IN THE LEAST CONSPICUOUS MANNER.
 - NOTE THAT SPECIFICATIONS FOR LIGHTING IS FOUND IN THE LIGHTING LEGEND.

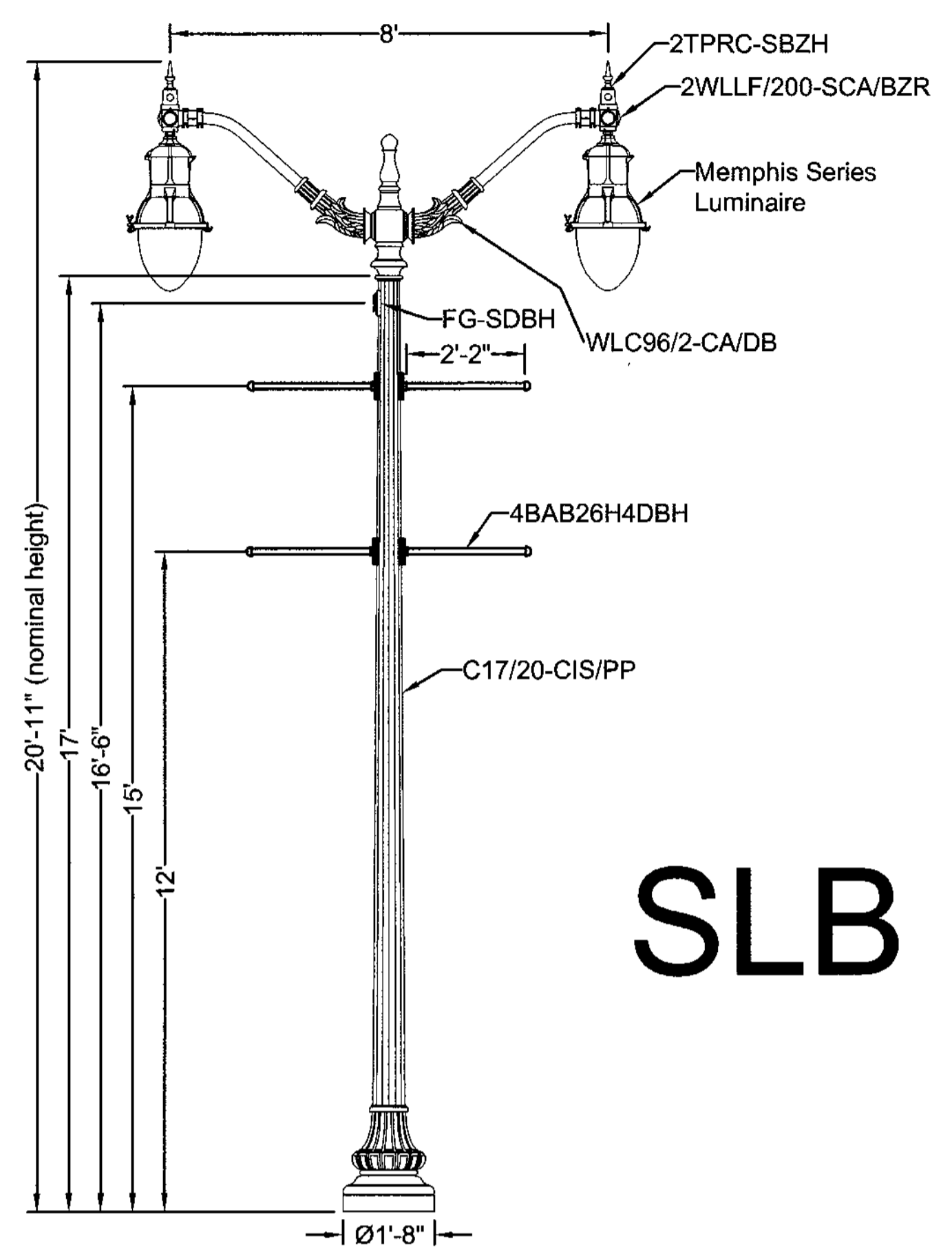
CONTACTOR WIRING DIAGRAM

NOT TO SCALE





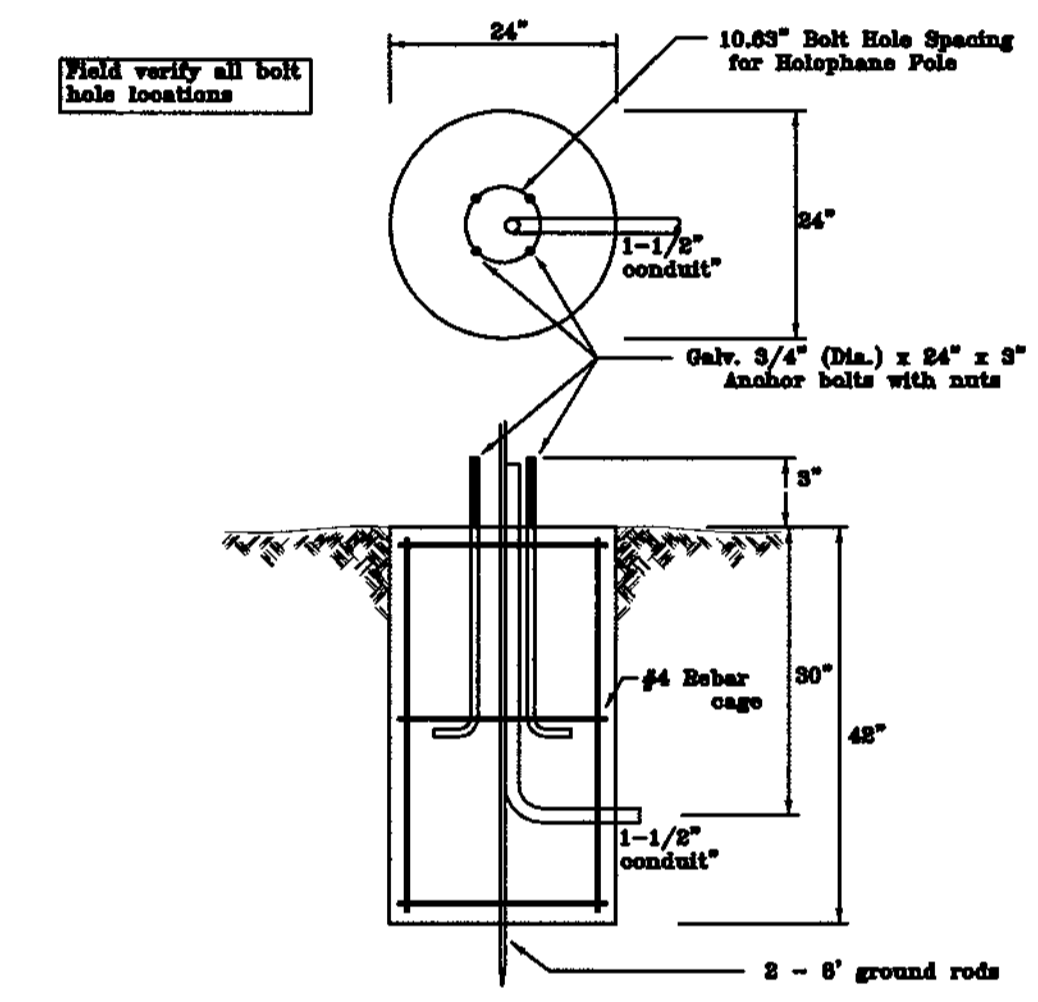
SLA



SLB

PRIVATELY-OWNED 100 HPS DECO LIGHTING

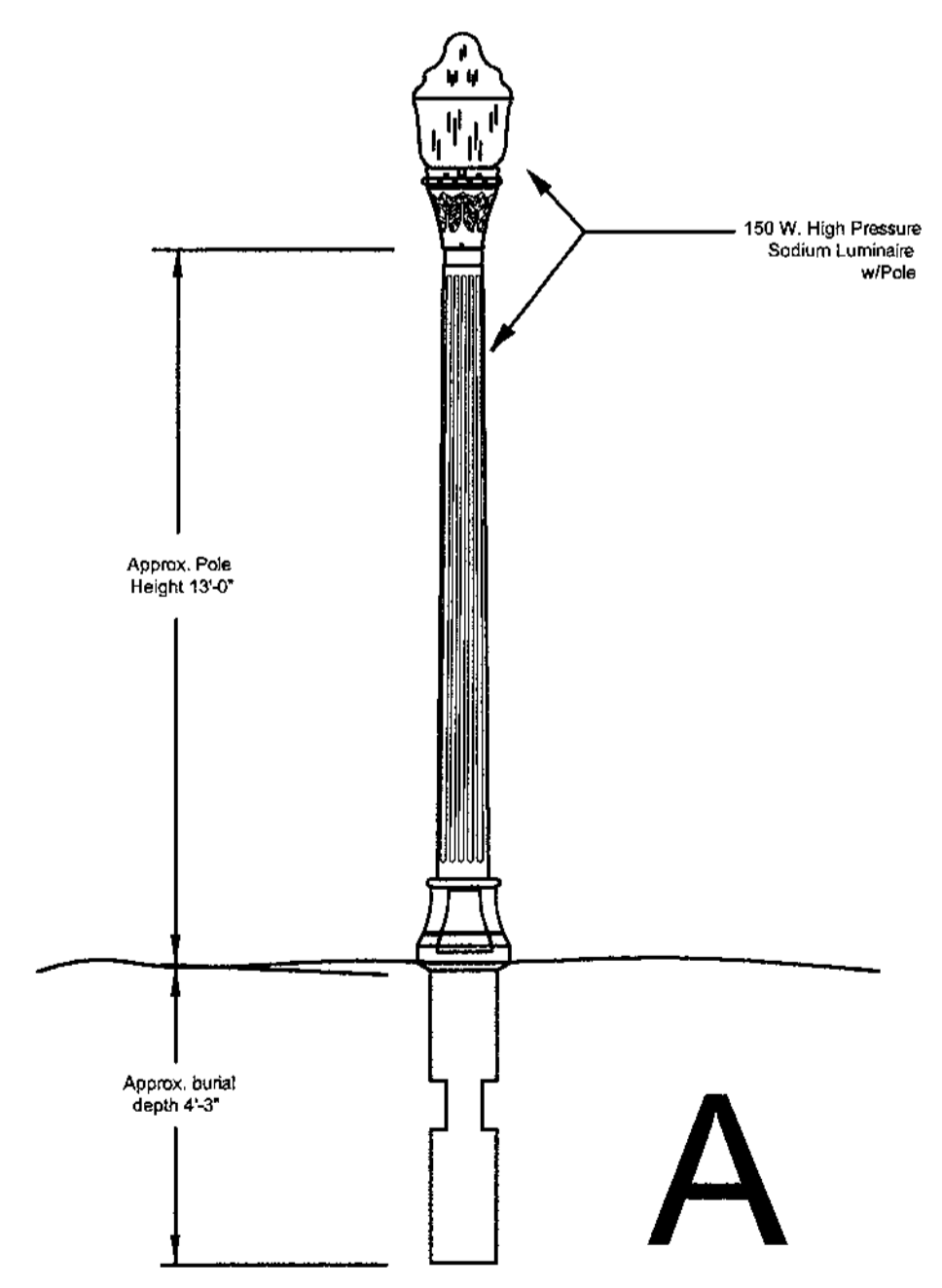
100 W. HIGH PRESSURE SODIUM FOUNDATION DETAIL (TYP. FOR SLA/SLB)



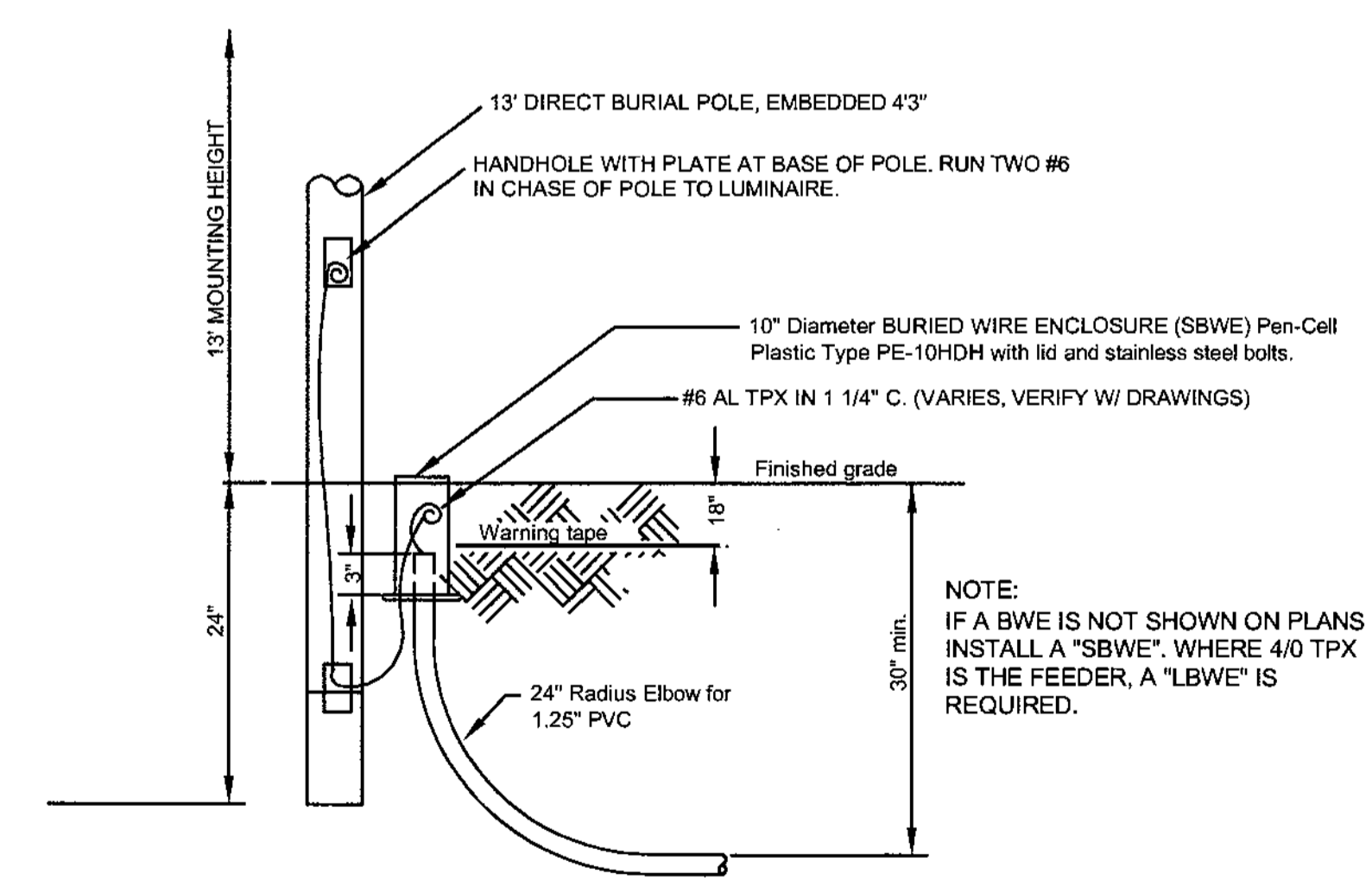
LIGHTING LEGEND

- 150 WATT HPS TYPE III DISTRIBUTION, ACORN STYLE LUMINAIRE WITH GLASS REFRACTOR, ON 13' (ABOVE GROUND) CONCRETE POLE WITH 10" BURIED WIRE ENCLOSURE (SBWE) AT BASE OF POLE. LOCATE 5' BACK OF CURB TO BACK OF POLE OR ADJACENT TO SIDEWALK (SEE PLAN). LUMINAIRE SHALL HAVE A INTEGRAL PHOTOCELL. LUMINAIRE - HOLOPHANE GRANVILLE GVLU-15AHP-12-B-3-N-N-U-H POLE -AMERON POLE PRODUCTS VEF-4.0. NOTE: 120V BALLAST.
- 100 WATT HIGH PRESSURE SODIUM LUMINAIRE (HOLOPHANE MP100HP12B4 S-67514) ON 17' POLE (C17/20-CIS/PP-DBH) WITH 4' ARM (WLC48/1-CA-DBH), FITTER WITH PHOTO CONTROL (WLLF/200-SCA/BZR TRPC-SBZH), MOUNTED ON POURED CONCRETE BASE, 4 -26" STANDARD BANNERS (BA26H/1/BO-CA/DB) POLE MOUNTED GFI-WP RECEPTACLES. NOTE: 120V BALLAST.
- 2-100 WATT HIGH PRESSURE SODIUM LUMINAIRE (HOLOPHANE MP100HP12B4 S-67514) ON 17' POLE (C17/20-CIS/PP-DBH) WITH 2-4' ARM (WLC48/1-CA-DBH), FITTER WITH PHOTO CONTROL (WLLF/200-SCA/BZR TRPC-SBZH), MOUNTED ON POURED CONCRETE BASE, 4 -26" STANDARD BANNERS (BA26H/1/BO-CA/DB) POLE MOUNTED GFI-WP RECEPTACLES. NOTE: 120V BALLAST.

NOTE: ALTERNATE HOT LEG USED TO CONNECT LUMINAIRES.

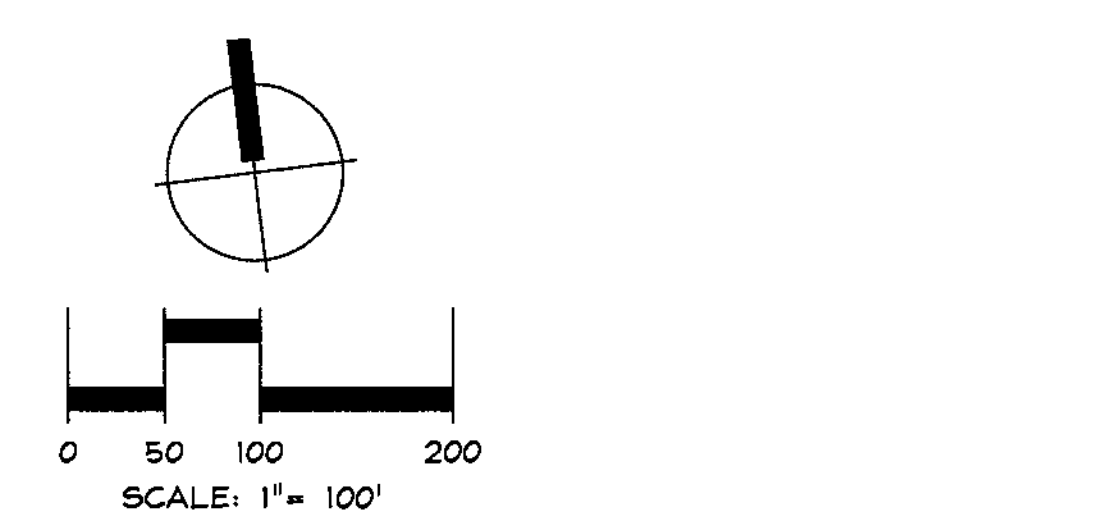
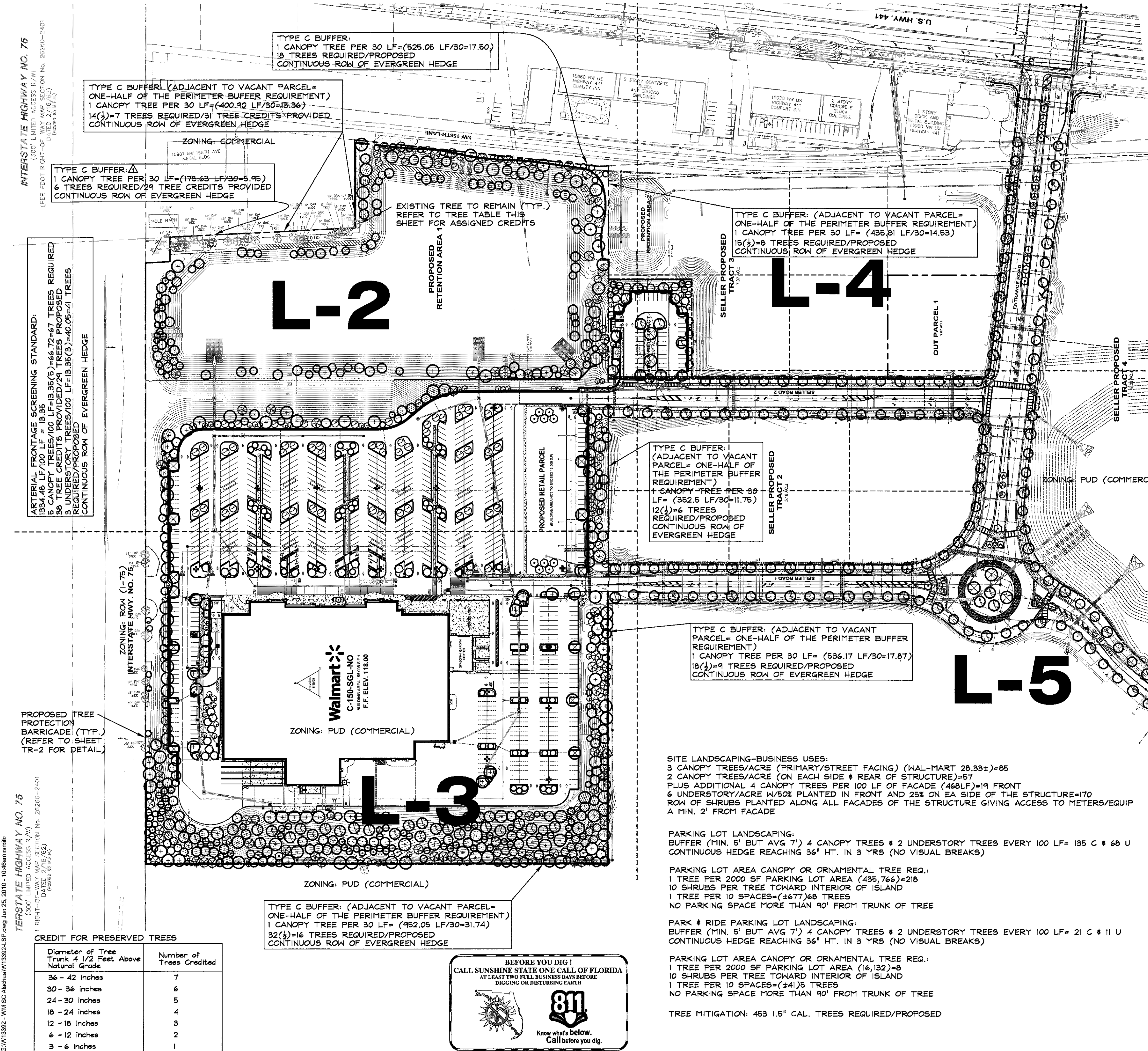


150 W. HIGH PRESSURE SODIUM- UTILITY LIGHT DECORATIVE LUMINAIRE WITH POLE



NOTE: CONTRACTOR SHALL FURNISH AND INSTALL ALL POLE MOUNTED LIGHT FIXTURES, POLES, AND BURIED WIRE ENCLOSURES (BWE) AT ALL POLE LOCATIONS.

TYPE "A" UTILITY STREETLIGHT DETAIL (TYP.) NOT TO SCALE



PLANT LEGEND

SYM.	COMMON NAME
TREES	
BN	DURA-HEAT RIVER BIRCH
CC	EASTERN WHITE REDBUD
MG	SOUTHERN MAGNOLIA
PB	RED BAY
PE	SLASH PINE
AA	DOWNY SERVICEBERRY
QP	WILLOW OAK
SP	CABBAGE PALMETTO
TD	BALD CYPRESS
QA	WHITE OAK
FP	GREEN ASH
AR	FLORIDA FLAME MAPLE
LI	CRAPE MYRTLE
MGI	LITTLE GEM MAGNOLIA
SHRUBS	
VO	SNEET VIBURNUM
GROUNDCOVER	
TA	ASIATIC JASMINE
RI	INDIAN HAWTHORN
EG	BLUE DAZE
ES	PURPLE LOVE GRASS
OA	AZTEC GRASS
IV	DWARF YAUPON HOLLY
DV	AFRICAN IRIS
IG	GALLBERRY
JC	SHORE JUNIPER
HD	DUNE SUNFLOWER
MC	MUHLI GRASS
BAHIA	ARGENTINE BAHIA SOD

ARTERIAL FRONTAGE SCREENING STANDARD:
15'-35'
15'-35' LF / 100' TREE CREDITS PROVIDED/24 TREES REQUIRED
3 UNDERSTORY TREES/100 LF = 18.35(3) = 40.05 = 41 TREES REQUIRED/PROPOSED
CONTINUOUS ROW OF EVERGREEN HEDGE

CREDIT FOR PRESERVED TREES

Diameter of Tree Trunk 4 1/2 Feet Above Natural Grade	Number of Trees Credited
36 - 42 inches	7
30 - 36 inches	6
24 - 30 inches	5
18 - 24 inches	4
12 - 18 inches	3
6 - 12 inches	2
3 - 6 inches	1

SITE LANDSCAPING-BUSINESS USES:
3 CANOPY TREES/ACRE (PRIMARY/STREET FACING) (WAL-MART 28.33±)=85
2 CANOPY TREES/ACRE (ON EACH SIDE & REAR OF STRUCTURE)=57
PLUS ADDITIONAL 4 CANOPY TREES PER 100 LF OF FACADE (468LF)=19 FRONT
6 UNDERSTORY/ACRE W/50% PLANTED IN FRONT AND 25% ON EA SIDE OF THE STRUCTURE=170
ROW OF SHRUBS PLANTED ALONG ALL FACADES OF THE STRUCTURE GIVING ACCESS TO METERS/EQUIP A MIN. 2' FROM FACADE

PARKING LOT LANDSCAPING:
BUFFER (MIN. 5' BUT AVG 7') 4 CANOPY TREES & 2 UNDERSTORY TREES EVERY 100 LF = 135 C & 68 U
CONTINUOUS HEDGE REACHING 36" HT. IN 3 YRS (NO VISUAL BREAKS)

PARKING LOT AREA CANOPY OR ORNAMENTAL TREE REQ.:
1 TREE PER 2000 SF PARKING LOT AREA (435,766)=218
10 SHRUBS PER TREE TOWARD INTERIOR OF ISLAND
1 TREE PER 10 SPACES=(±677)68 TREES
NO PARKING SPACE MORE THAN 90' FROM TRUNK OF TREE

PARK & RIDE PARKING LOT LANDSCAPING:
BUFFER (MIN. 5' BUT AVG 7') 4 CANOPY TREES & 2 UNDERSTORY TREES EVERY 100 LF = 21 C & 11 U
CONTINUOUS HEDGE REACHING 36" HT. IN 3 YRS (NO VISUAL BREAKS)

PARKING LOT AREA CANOPY OR ORNAMENTAL TREE REQ.:
1 TREE PER 2000 SF PARKING LOT AREA (16,132)=8
10 SHRUBS PER TREE TOWARD INTERIOR OF ISLAND
1 TREE PER 10 SPACES=(±41)5 TREES
NO PARKING SPACE MORE THAN 90' FROM TRUNK OF TREE

TREE MITIGATION: 453 1.5" CAL. TREES REQUIRED/PROPOSED

TREE REQUIREMENT SUMMARY		
	REQUIRED	PROPOSED
WALMART SITE AREA		
TOTAL BUFFER TREES	137 C/41 U	137 C/41 U
TOTAL PARKING LOT BUFFER TREES	135 C/68 U	135 C/68 U
TOTAL PARKING LOT AREA TREES	218 C/U	218 C/U
TOTAL SITE LANDSCAPE TREES	275 C/170 U	275 C/170 U
PARK AND RIDE AREA		
TOTAL PARKING LOT BUFFER TREES	21 C/ 11 U	21 C/ 11 U
TOTAL PARKING LOT AREA TREES	8 C/U	8 C
MITIGATION		
TOTAL ADDITIONAL TREES	453 C/U	453 C/U

C-CANOPY, U-UNDERSTORY

NOTE: PROPOSED TREES ARE CREDITED TOWARDS MULTIPLE REQUIREMENTS EXCEPT FOR MITIGATION TREES WHICH ARE SOLELY COUNTED FOR MITIGATION AND FULFILL NO OTHER REQUIREMENT.

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Engineers
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Architects
Planners
Landscape Architects
Environmental Scientists
Construction Management
Traffic/Transportation

Eng. C.O.A. No. 3215
Survey L.B. No. 7143
Arch. Lic. No. AA260926
Landscape Lic. No. LC000298
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Drawn by:	Checked by:	Scale:	Date:	Job No.:	File:
G.J.P.	M.A.A.	1" = 100'	09/16/08	WT13392	WT13392.dwg
J.K.W.	G.J.P.				
					CITY SUBMITTAL
					Revision
					GJP
					By
					Date
					6/18/10
					No.
					6/18/10

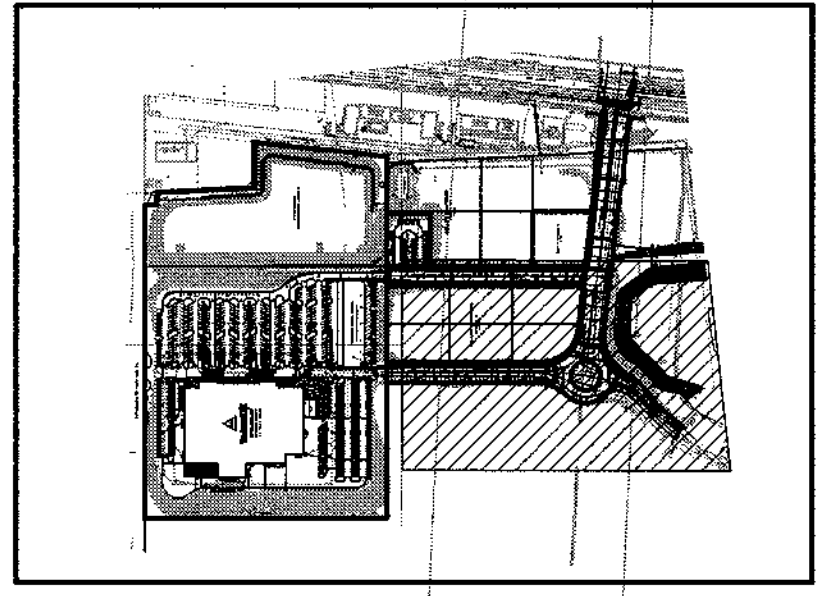
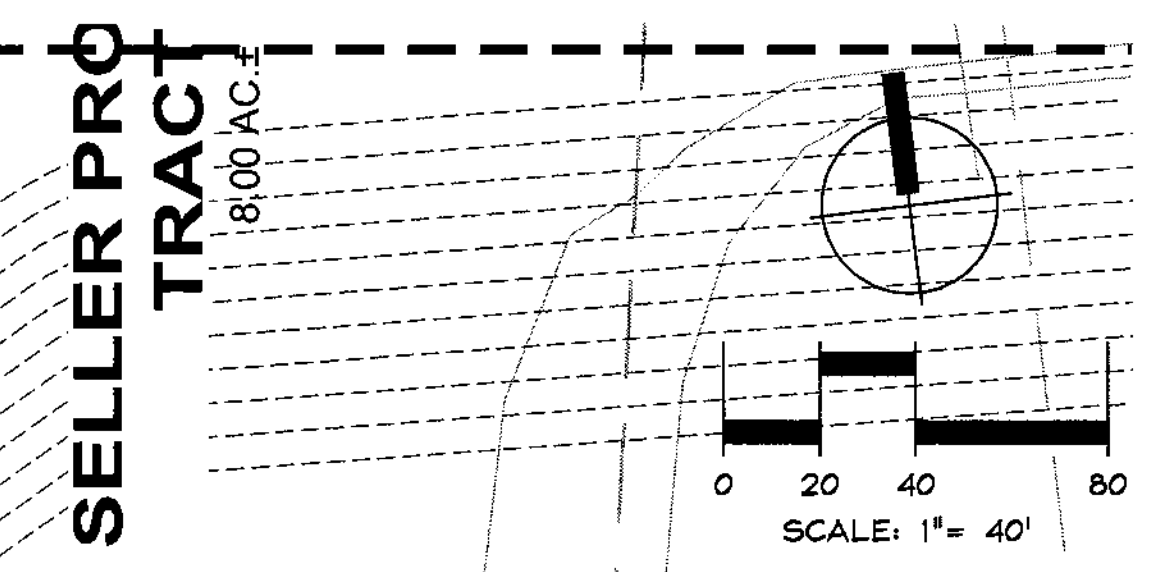
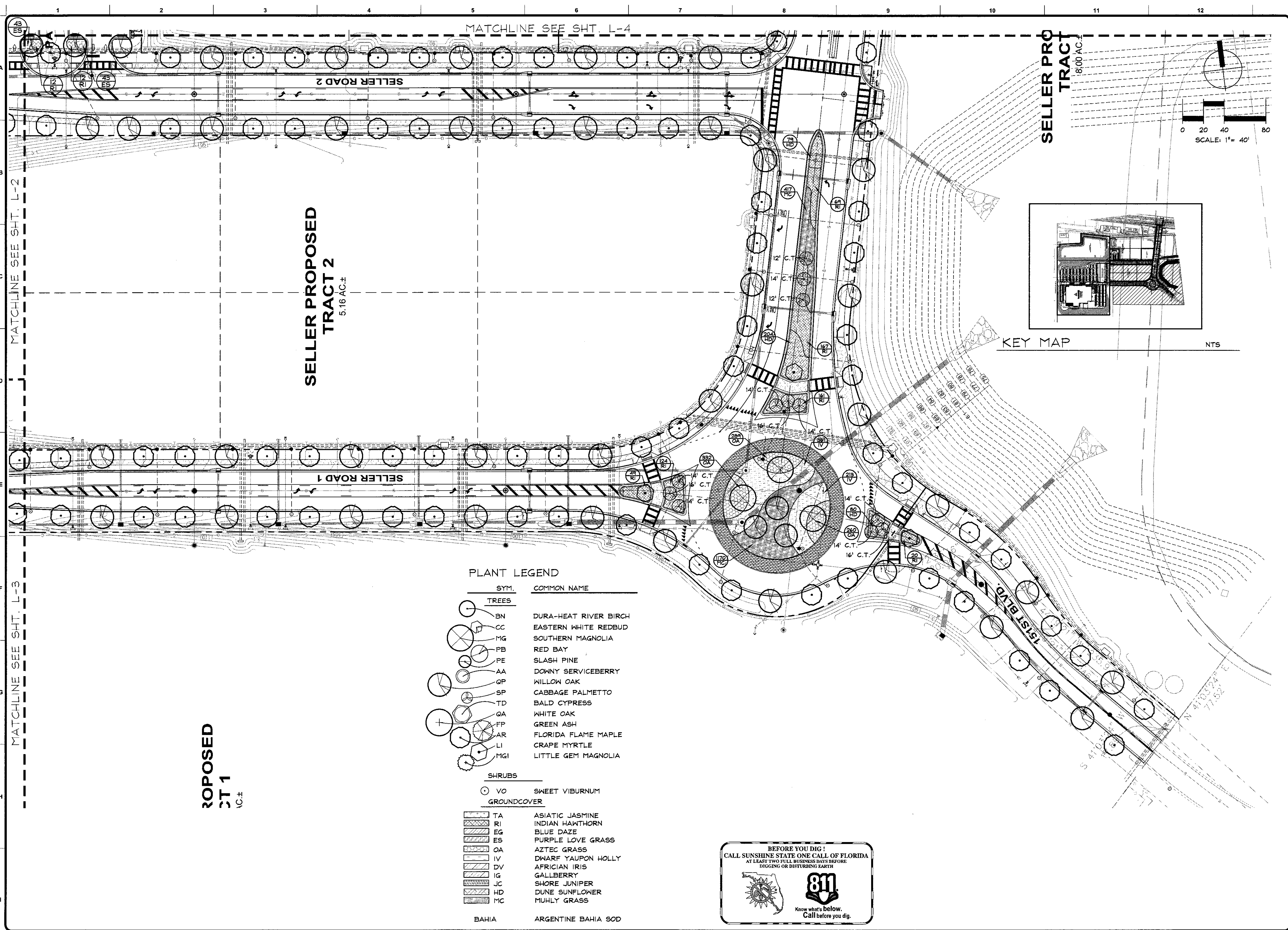
OVERALL LANDSCAPE PLAN

Walmart

STORE NO. 3873-00, ALACHUA (SEC 175 & HWY 441), FLORIDA

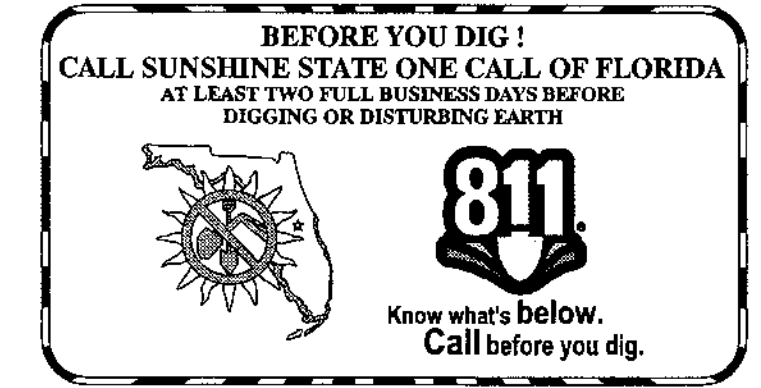
Sheet No.

L-1



PLANT LEGEND

SYM.	COMMON NAME
TREES	
BN	DURA-HEAT RIVER BIRCH
CC	EASTERN WHITE REDBUD
MG	SOUTHERN MAGNOLIA
PB	RED BAY
PE	SLASH PINE
AA	DOWNY SERVICEBERRY
QP	WILLOW OAK
SP	CABBAGE PALMETTO
TD	BALD CYPRESS
QA	WHITE OAK
FP	GREEN ASH
AR	FLORIDA FLAME MAPLE
LI	GRAPE MYRTLE
MGI	LITTLE GEM MAGNOLIA
SHRUBS	
VO	SWEET VIBURNUM
GROUNDCOVER	
TA	ASIATIC JASMINE
RI	INDIAN HAWTHORN
EG	BLUE DAZE
ES	PURPLE LOVE GRASS
OA	AZTEC GRASS
IV	DWARF YAUPON HOLLY
DV	AFRICAN IRIS
IG	GALLBERRY
JC	SHORE JUNIPER
HD	DUNE SUNFLOWER
MC	MUHLY GRASS
BAHIA	ARGENTINE BAHIA SOD



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Engineers
 Surveyors
 Architects
 Planners
 Landscape Architects
 Environmental Scientists
 Construction Management
 Traffic / Transportation

Eng. C.O.A. No. 3215
 Survey L.B. No. 7143
 Arch. Lic. No. AA2600926
 Landsc. Lic. No. LC0000298
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Designed by:	G.J.P.	No.	6/18/10	Date
Drawn by:	M.A.A.	No.		
Checked by:	J.K.W.	No.		
Approved by:	G.J.P.	No.		
Scale:	1" = 40'	No.		
Date:	09/16/08	No.		
Job No.:	W13392	No.		
File:	W13392_LSP.dwg	No.		
		CITY SUBMITTAL		
		Revision		
		GJP		By

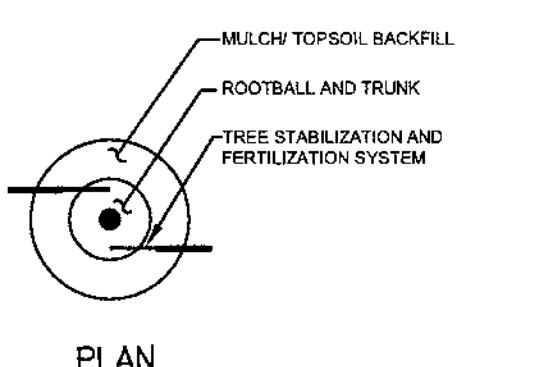
LANDSCAPE PLAN

Walmart

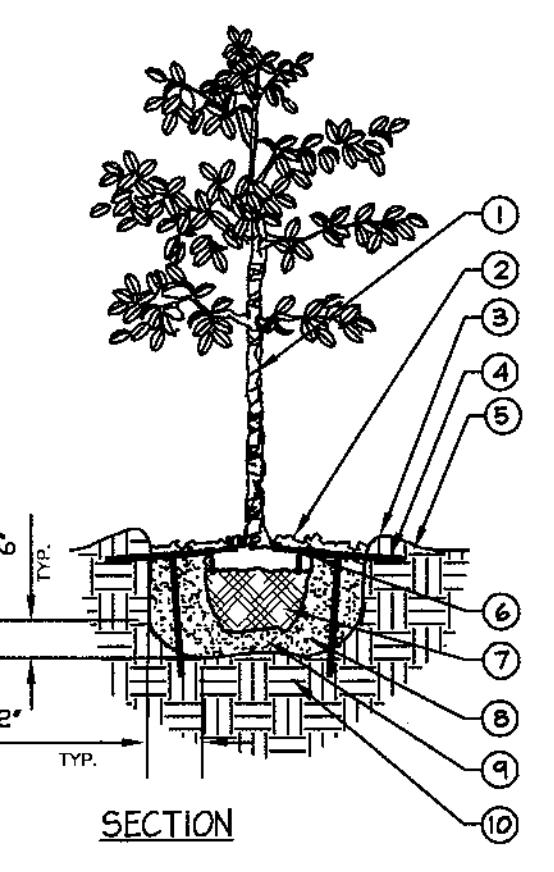
STORE NO. 3873-00, ALACHUA (SEC 17-6 & HWY 441), FLORIDA

LANDSCAPE NOTES:

- All landscaped areas are to receive a minimum of 4" of topsoil, see 2900 specification.
- All plant material shall be healthy, vigorous, and free of pests and diseases.
- All plant material shall be container grown or balled and burlapped as indicated in the plant list.
- All trees shall have a straight trunk and full head and meet all requirements specified.
- All materials are subject to the approval of the landscape architect before, during, and after installation.
- All trees must be guyed or staked as shown in the details.
- All planting areas shall be completely mulched as specified.
- Prior to construction, the contractor shall be responsible for locating all underground utilities and shall avoid damage to all utilities during the course of the work. Locations of existing buried utility lines shown on the plans are based upon best available information and are to be considered approximate. It shall be the responsibility of the contractor to verify the locations of utility lines and adjacent to the work area to protect all utility lines during the construction period to repair any and all damage to utilities, structures, site appearances, etc. which occurs as a result of the construction.
- The contractor shall be responsible for verifying all quantities shown on these plans before pricing the work.
- Contractor shall be responsible for delivery schedule and protection between delivery and planting per specifications to maintain healthy plant conditions.
- The contractor shall be responsible for fully maintaining (including but not limited to watering, spraying, mulching, fertilizing, etc.) all of the plant materials and lawn for the period of time shown in the 2900 spec.
- Any plant material which is diseased, distressed, dead, or rejected (prior to substantial completion) shall be promptly removed from the site and replaced with material of the same species, quantity, and size meeting all plant list specifications.
- The contractor shall completely guarantee all plant material for a period defined in the 2900 spec; the contractor shall promptly make all replacements during the normal planting season.
- After being dug at the nursery source, all trees in leaf shall be acclimated for two (2) weeks under a mist system prior to installation.
- Where shown on the plans and details, planting beds are to be completely covered with a hardwood mulch from a local source harvested in a sustainable manner to a minimum depth of four inches.
- Refer to walmart specifications for information needed for implementation of planting plans.
- Head mat is required in landscaped islands as specified.
- All plant material quantities shown are approximate; contractor shall be responsible for complete coverage of all planting beds at spacing shown.
- This plan is to be implemented cooperatively with supp plan, as needed, to maximize the effectiveness of the supp plan for this site.
- The contractor is encouraged to complete temporary or permanent seeding or sodding in stages for soil stabilization as areas are completed or grading.
- This plan does not present any temporary stabilization required as part of supp plan.
- The Landscape Contractor shall be responsible for all materials and all work as called for on the Landscape Plans and in the Landscape Specifications. In the event of variation between quantities shown on the plans and the Landscape Specifications, the Landscape Contractor shall verify all quantities and report any discrepancies at the time of bidding.
- The Landscape Contractor shall review architectural/engineering plans and become thoroughly familiar with surface and subsurface utilities.
- Every possible safeguard shall be taken to protect building surfaces, equipment and furnishings. The Landscape Contractor shall be responsible for any damage or injury to person or property which may occur as a result of negligence in execution of the work.
- The work shall be coordinated with other trades to prevent conflicts. Coordinate the planting with the Irrigation work to assure availability and proper location of irrigation items and plants.
- All planting shall be performed by personnel familiar with planting procedures and under the supervision of a qualified planting foreman.
- All plant material shall be graded Florida No. 1 or better as outlined under Grades and Standards for Nursery Plants, Part I and II, published by the Florida Department of Agriculture and Consumer Services or to the standards as given in the latest "American Standard for Nursery Stock," American National Standards Institute.
- The Landscape Architect or Owner shall have the right, at any stage of the operation, to reject any and all work and materials which, in his opinion, do not meet with the requirements of the specifications.
- Except as otherwise specified, the Landscape Contractor's work shall conform to accepted horticultural practices as used in the trade.
- The minimum acceptable size of all plants, measured after pruning, with branches in normal positions, shall conform to the measurements specified on the plant list or as indicated on the landscape drawing. Height and spread dimensions refer to main body of the plant and not extreme branch tip to tip. The caliper of tree trunks is to be taken one foot above the ground level.
- Plants shall be protected upon arrival at the site, by being thoroughly watered and properly maintained until planted.
- All tree pits shall be excavated to size and depth in accordance with the USDA Standard for Nursery Stock 2601, unless shown otherwise on the drawings, and backfilled with the specified planting soil. The Landscape Contractor shall backfill all tree pits with water before planting to assure proper drainage penetration is available.
- The Landscape Contractor shall be responsible for proper watering of all plants. All plants shall be thoroughly watered at time of planting and kept adequately watered until time of acceptance. It shall be the Landscape Contractor's responsibility to assure that plants are not over watered.
- It shall be the Landscape Contractor's responsibility to prevent plants from falling or being blown over, to retrain and replant all plants which lean or fall and to replace all plants which are damaged due to lack of proper guying or staking. The Landscape Contractor shall be legally liable for any damage caused by instability of any plant material.
- All trees and all palms shall be guyed or staked or braced. The Landscape Contractor shall determine which small or multi-trunk trees need to be guyed and staked to maintain plumb. Staking of trees and staking, if required, shall be done as per detail and guying detail prepared by the Landscape Architect. It shall be the responsibility of the Landscape Contractor to remove guys and stakes from the trees and job site after a period of 90 days.
- Plants blown over by high winds, within the guaranteed period, shall not be cause for additional expense to the Owner, but shall be the responsibility of the Landscape Contractor. Damaged plants shall be replaced by the Landscape Contractor at no additional cost to the Owner.
- Sod shall be certified to be free of the imported fire ant. Sod shall have a clean growth of centipede grass, reasonably free of weeds with not less than 1 1/2" of soil firmly adhering to roots. It shall be the responsibility of the Landscape Contractor to measure and determine the area required. This amount shall be verified with the Owner or Landscape Architect before installation.
- The Landscape Contractor shall insure adequate vertical drainage in all plant beds, planters, and sod areas. Vertical drainage through any compacted fill to native soil shall be accomplished to insure drainage. If well drained fill is necessary to assure positive drainage, this issue shall be brought up by the Landscape Contractor at time of bidding.
- The Landscape Contractor shall insure that his work does not interrupt established or projected drainage patterns.
- The Landscape Contractor shall prune, shape and remove dead foliage/limbs from existing plant material to remain. Confirm with the Landscape Architect or Owner the extent of work required at time of bidding.
- Mulch - All plant beds shall be top dressed with 4" eroded hardwood mulch (or approved equal).
- Transplanted Material - The Landscape Contractor shall be responsible for determining and evaluating which plant materials are suitable for transplanting and shall verify this with the Landscape Architect or Owner. The Landscape Contractor shall take all reasonable, horticulturally acceptable measures to assure the successful transplanting of determined plant materials. The Landscape Contractor shall be responsible for replacing any relocated plant materials which die if such measures are not taken, as determined by the Landscape Architect or Owner. Replacement plants shall be of identical species and size if required.
- MAINTENANCE PRIOR TO FINAL INSPECTION AND ACCEPTANCE.** Maintenance shall commence after each plant is planted and the maintenance period shall continue until the job or specific phase of the job is accepted by the Landscape Architect or Owner. Extreme care shall be taken to instruct the Owner or his representatives in general maintenance procedures. Plant maintenance shall include watering, pruning, weeding, cultivating, lightening, and repairing of guys, replacement of sick or dead plants, resetting plants to proper grades or upright positions and restoration of the planting source and all other care needed for proper growth of the plants. During the maintenance period and up to the date of final acceptance, the Landscape Contractor shall do all second spraying and/or dialing of trees and shrubs. Upon completion of all planting, an inspection for acceptance of work will be held. The Landscape Contractor shall notify the Landscape Architect or Owner for scheduling of the inspection 10 days prior to the scheduled date. At the time of the inspection, if all of the materials are acceptable, a written report will be given by the Landscape Architect or Owner to the Landscape Contractor stating the date when the Maintenance Period ends. **GUARANTEE AND REPLACEMENT.** All plant material shall be guaranteed for one (1) year from the time of final inspection and interim acceptance shall be given and in satisfactory growth for each specific kind of plant at the end of the guaranteed period. At the end of the guarantee period, any plant required under this contract that is dead or not in satisfactory growth, as determined by the Owner or the Landscape Architect, shall be removed and replaced. Replacement plants shall have an extended guarantee, as noted above, from time of replacement. All replacements shall be planted of the same kind and size as specified on the plant list. They shall be the responsibility of the Landscape Contractor. Contractor shall ensure that there are no visual obstructions to vehicle lines of sight and traffic controls. Contractor shall field adjust tree and/or large shrub locations to avoid any such obstructions. Trees shall be maintained by the owner to avoid future such obstructions by pruning trees and/or shrubs as necessary utilizing horticulturally sound techniques.

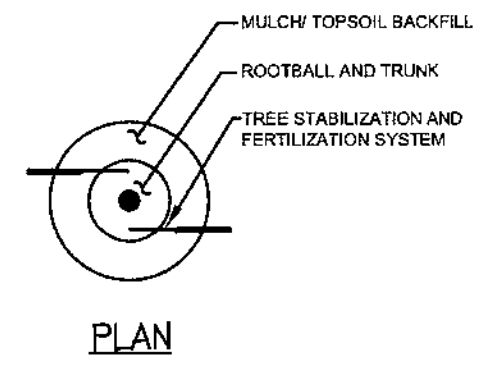


PLAN

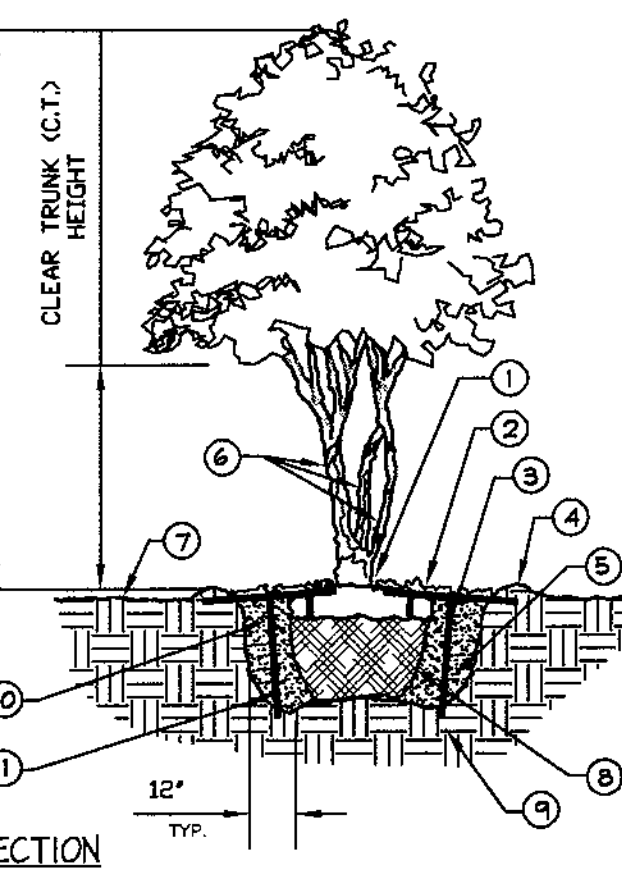


SECTION

SMALL TREE PLANTING (14" OR LESS)

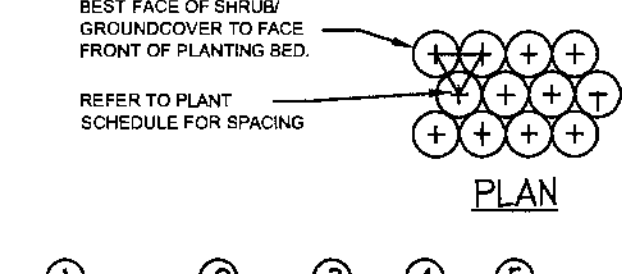


PLAN

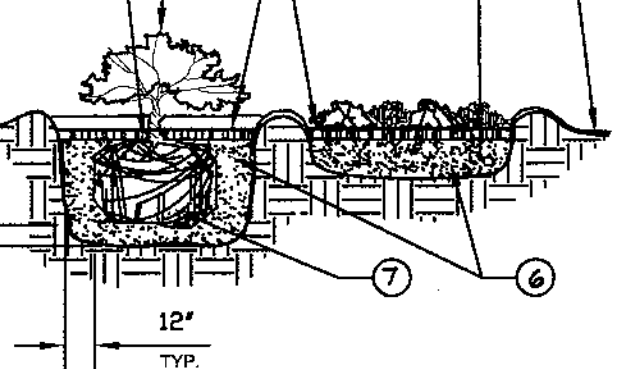


SECTION

MULTI-TRUNK TREE PLANTING



PLAN



SECTION

SHRUB/GROUND COVER PLANTING

1. TREE WRAP
2. 4" MINIMUM OF HARDWOOD BARK MULCH COMPACTED OR AS SPECIFIED.
3. 3" HIGH SOIL BERM TO HOLD WATER.
4. STAKE SIZE SHALL BE ONE SIZE HIGHER THAN REQUIRED FOR SIZE OF TREE. REFER TO SITEWORK SPECIFICATIONS FOR APPROVED MATERIALS AND INSTALLATION REQUIREMENTS. GUY AS NECESSARY IN EXTREME WIND CONDITIONS WITH #10 GAUGE WIRE.
5. FINISHED GRADE (SEE GRADING PLAN)
6. TOP OF ROOTBALL MIN. 1" ABOVE FINISHED GRADE
7. 8 & 9 OR CONTAINERIZED (SEE SPECIFICATIONS FOR ROOT BALL REQUIREMENTS)
8. PREPARED PLANTING SOIL AS SPECIFIED.
9. ROOTBALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING ROOTBALLS SMALLER THAN 24" IN DIA. MAY SIT ON COMPACTED EARTH.
10. UNDISTURBED SUBSOIL

- NOTES:**
- FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
 - REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/3 OF ROOTBALL.
 - SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.
 - PRUNE TREE AS DIRECTED BY LANDSCAPE ARCHITECT.
 - BRANCHING HEIGHT TO A.A.N. STANDARDS.

1. BASE OF TREE SHALL BE PLANTED SLIGHTLY ABOVE FINISHED GRADE. FINISH GRADE REMOVE ALL TWIGS & STRIPS & CUT BURLAP FROM TOP 1/3 OF ROOTBALL. NO SYNTHETIC BURLAP WILL BE ACCEPTED.
2. 4" SHREDDED HARDWOOD BARK MULCH OR APPROVED EQUAL
3. DIAMETER OF TREE PIT TO BE TWICE THE DIAMETER OF ROOTBALL-TWOCHEN SIDES OF TREE PIT.
4. 3" HIGH SOIL BERM TO HOLD WATER.
5. TOPSOIL MIX BACKFILL
6. 2" MIN. OF TOPSOIL TO BRING TO FINISHED GRADE (SEE GRADING PLAN)
7. 4" MIN. OF TOPSOIL TO BRING TO FINISHED GRADE (SEE GRADING PLAN)
8. ROOTBALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING ROOTBALLS SMALLER THAN 24" IN DIA. MAY SIT ON COMPACTED EARTH.
9. UNDISTURBED SUBSOIL
10. PREPARE PLANTING SOIL AS SPECIFIED.
11. STAKE SIZE SHALL BE ONE SIZE HIGHER THAN REQUIRED FOR SIZE OF TREE. REFER TO SITEWORK SPECIFICATIONS FOR APPROVED MATERIALS AND INSTALLATION REQUIREMENTS. GUY AS NECESSARY IN EXTREME WIND CONDITIONS WITH #10 GAUGE WIRE.

- NOTES:**
- FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
 - SET TREE AT ORIGINAL DEPTH. REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/3 OF ROOTBALL.
 - SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.
 - PRUNE TREE AS DIRECTED BY LANDSCAPE ARCHITECT
 - BRANCHING HEIGHT TO A.A.N. STANDARDS
 - IF SITE CONDITIONS REQUIRE GUYING OF THE TREE, FASTEN #10 GUY WIRE TO STRONGEST TRUNK AT THE CENTER OF THE MULTI-TRUNK TREE.

1. TOP OF SHRUB ROOTBALLS TO BE PLANTED 1" ABOVE FINISHED GRADE TO THE TOP OF ROOTBALL.
- WHEN USED IN MASSES-PRUNE ALL SHRUBS TO ACHIEVE A UNIFORM MASSIVE EFFECT.
- 4" MINIMUM OF HARDWOOD BARK MULCH COMPACTED OR AS SPECIFIED.
- EXCAVATE ENTIRE BED SPECIFIED FOR GROUND COVER BED.
- 4" MINIMUM OF TOPSOIL TO BRING TO FINISHED GRADE (SEE GRADING PLAN).
- PREPARED PLANTING SOIL AS SPECIFIED. NOTE: WHEN GROUND-COVERS AND SHRUBS USED IN MASSES ENTIRE BED TO BE AMENDED WITH PLANTING SOIL MIX AS SPECIFIED.
- SCARPED ROOTBALL SIDES AND BOTTOM.

DESIGNED BY: G.P. DRAWN BY: M.A.A. CHECKED BY: J.K.W. APPROVED BY: G.J.P. SCALE: NTS DATE: 09/16/08 JOB NO.: W13392-SP-07G FILE: W13392-SP-07G

PLANT LIST

SYM.	QTY.	BOTANICAL NAME	COMMON NAME	DESCRIPTION
TREES				
BN	45	BETULA NIGRA 'BNMTF'	DURA-HEAT RIVER BIRCH	15 GAL., 1.5" CAL., 7' MIN. HT.
CC	67	CERCIS CANADENSIS 'ALBA'	EASTERN WHITE REDBUD	15 GAL., 1.5" CAL., 7' MIN. HT.
MG	19	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	15 GAL., 1.5" CAL., 8' MIN. HT.
PB	97	PERSEA BORBONIA	RED BAY	15 GAL., 1.5" CAL., 8' MIN. HT.
PE	77	PINUS ELLIOTTII	SLASH PINE	15 GAL., 1.5" CAL., 8' MIN. HT.
AA	106	AMELANCHIER ARBOREA	DOWNY SERVICEBERRY	15 GAL., 1.5" CAL., 7' MIN. HT.
QP	94	QUERCUS PHELLOS	WILLOW OAK	15 GAL., 1.5" CAL., 8' MIN. HT.
SP	18	SABAL PALMETTO	CABBAGE PALMETTO	10'-16" C.T., AS SHOWN
TD	64	TAXODIUM DISTICHUM	BALD CYPRESS	15 GAL., 1.5" CAL., 8' MIN. HT.
GA	84	QUERCUS ALBA	WHITE OAK	15 GAL., 1.5" CAL., 8' MIN. HT.
FP	75	FRAXINUS PENNSYLVANICA	GREEN ASH	15 GAL., 1.5" CAL., 8' MIN. HT.
AR	212	ACER RUBRUM 'FLORIDA FLAME'	FLORIDA FLAME MAPLE	15 GAL., 1.5" CAL., 8' MIN. HT.
LI	28	LAGERSTROEMIA INDICA	GRAPE MYRTLE	15 GAL., 1.5" CAL., 7' MIN. HT.
MGI	1	MAGNOLIA GRANDIFLORA 'LITTLE GEM'	LITTLE GEM MAGNOLIA	15 GAL., 1.5" CAL., 7' MIN. HT.
SHRUBS				
VO	1800	VIBURNUM ODORATISSIMUM	SWEET VIBURNUM	3 GAL., 24" MIN. HT., 36" O.C.
GROUND COVER				
TA	957	TRACHELOSPERMUM ASIATICUM	ASIATIC JASMINE	1 GAL., FULL, 18" O.C.
RI	2947	RHAPHIOLEPIS INDICA	INDIAN HAWTHORN	1 GAL., 12" HT., 30" O.C.
EG	259	EVOLULILIS GLOMERATA	BLUE DAZE	1 GAL., FULL, 18" O.C.
ES	1685	ERGROSTIS SPECTABILIS	PURPLE LOVE GRASS	1 GAL., FULL, 18" O.C.
OA	1303	OPHIOPOGON 'ARGENTEMARGINATUS'	AZTEC GRASS	1 GAL., FULL, 18" O.C.
IV	1515	ILEX VOMITORIA 'NANA'	DWARF YAUPON HOLLY	1 GAL., 12" MIN. HT., 30" O.C.
DV	1864	DIETES VEGETA	AFRICAN IRIS	1 GAL., 24" O.C.
IG	491	ILEX GLABRA	GALLBERRY	1 GAL., 12" HT., 30" O.C.
JC	982	JUNIPERUS CONFERTA 'BLUE PACIFIC'	SHORE JUNIPER	1 GAL., FULL, 24" O.C.
HD	363	HELIANTHUS DEBILIS	DUNE SUNFLOWER	1 GAL., FULL, 24" O.C.
MC	1587	MULENBERGIA CAPILLARIS	MUHY GRASS	1 GAL., FULL, 18" O.C.
BAHIA	BY CONTR.	PASPALUM NOTATUM 'ARGENTINE'	ARGENTINE BAHIA SOD	SOLID SOD, CONTRACTOR TO VERIFY QTY.

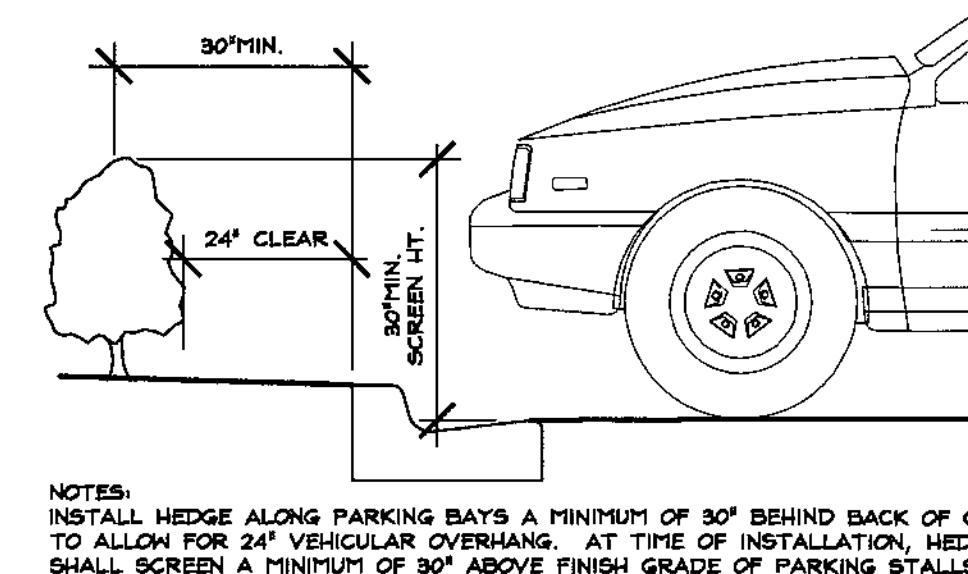
NOTE:
PLANT DESCRIPTIONS ARE FOR MINIMUM ACCEPTABLE SPECIFICATIONS. ALL CRITERIA LISTED FOR CONTAINER SIZE, CALIPER, HEIGHT, SPREAD, ETC. MUST BE MET FOR PLANT MATERIAL ACCEPTANCE. FOR EXAMPLE, IF A THREE GALLON SHRUB DOES NOT MEET THE HEIGHT OR SPREAD SPECIFICATION, IT WILL NOT BE ACCEPTED.

IF SPECIFIED PLANTS ARE UNAVAILABLE AT TIME OF CONSTRUCTION, CONTRACTOR MAY REPLACE SPECIFIED PLANTS WITH PLANTS APPROVED BY LANDSCAPE ARCHITECT AND CITY STAFF.

ALL OPEN SPACE AREAS WITHIN THE PROPERTY SHALL BE SODDED UNLESS PAVED, SEEDDED AND MULCHED OR PLANTED WITH SHRUBS AND GROUND COVER.

ALERT TO CONTRACTOR:

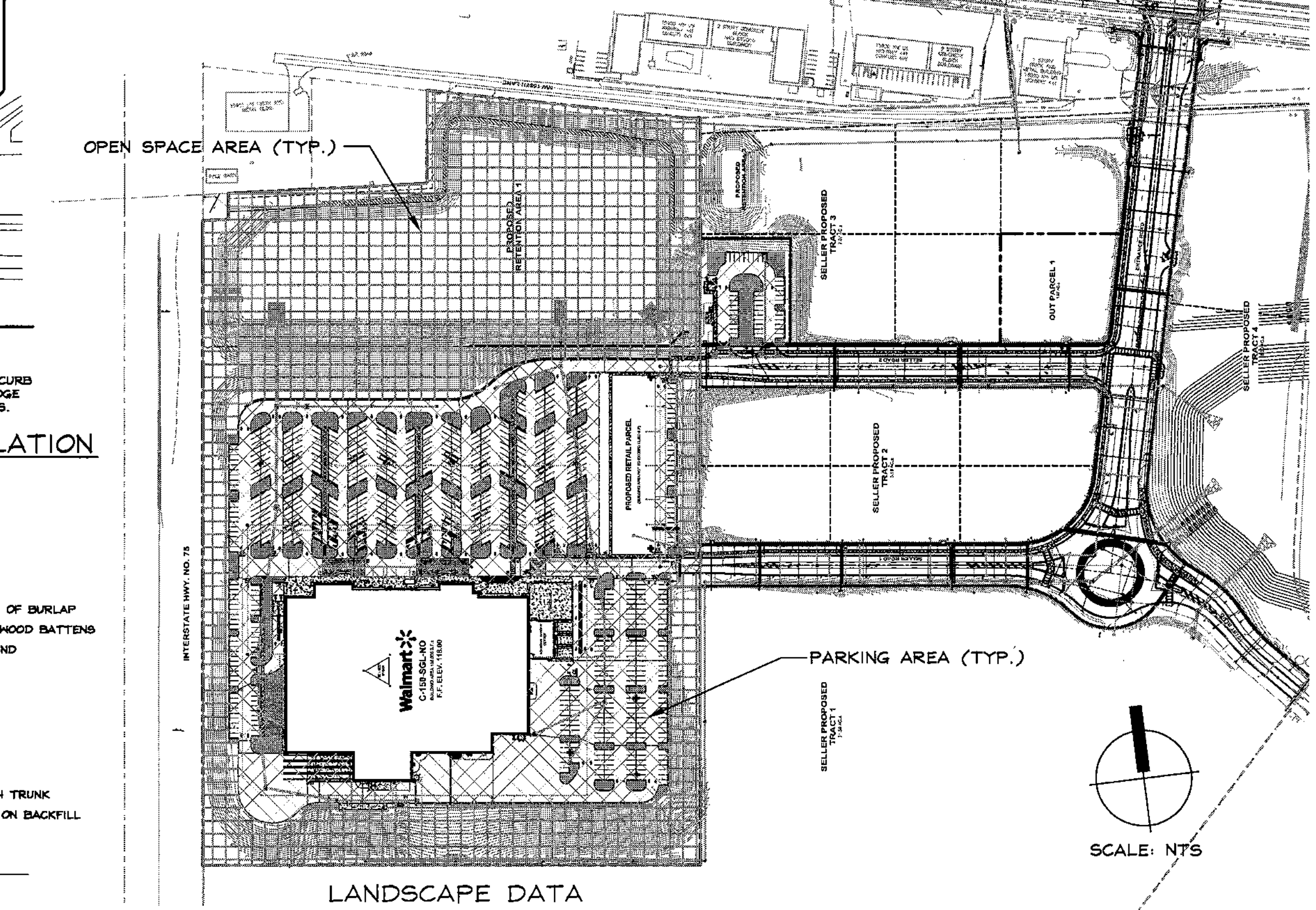
ALL WM GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS. OUTLOT AREA TO BE KEPT FREE OF JOB TRAILERS AND STORAGE AFTER THE CONTRACT MILESTONE DATE FOR THE OUTLOT. WM GENERAL CONTRACTOR TO PROVIDE CLEAR ACCESS FOR OUTLOT CONTRACTOR TO THE SPECIFIC PARCEL AT ALL TIMES AFTER MILESTONE DATE. PURCHASER OF OUTLOT TO REQUIRE PERMIT DOCUMENTS AND SWPPP REQUIRED BY STATE/LOCAL REQUIREMENTS FOR SPECIFIC OUTLOT.



TYPICAL SECTION - HEDGE INSTALLATION

NOTE TO CONTRACTOR:

18" WIDE MULCH STRIP IS REQUIRED BEHIND ALL CONCRETE CURBS/BUFFERS.



LANDSCAPE DATA

▲ PARKING LOT AREA (WALMART & PARK & RIDE) 435,766 S.F.

■ PROPOSED INTERIOR LANDSCAPE AREA 62,051 S.F. (14.2%)

gph
500 West Fulton Street
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Sanford, Florida 32772-2908
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Fax 407-330-0639

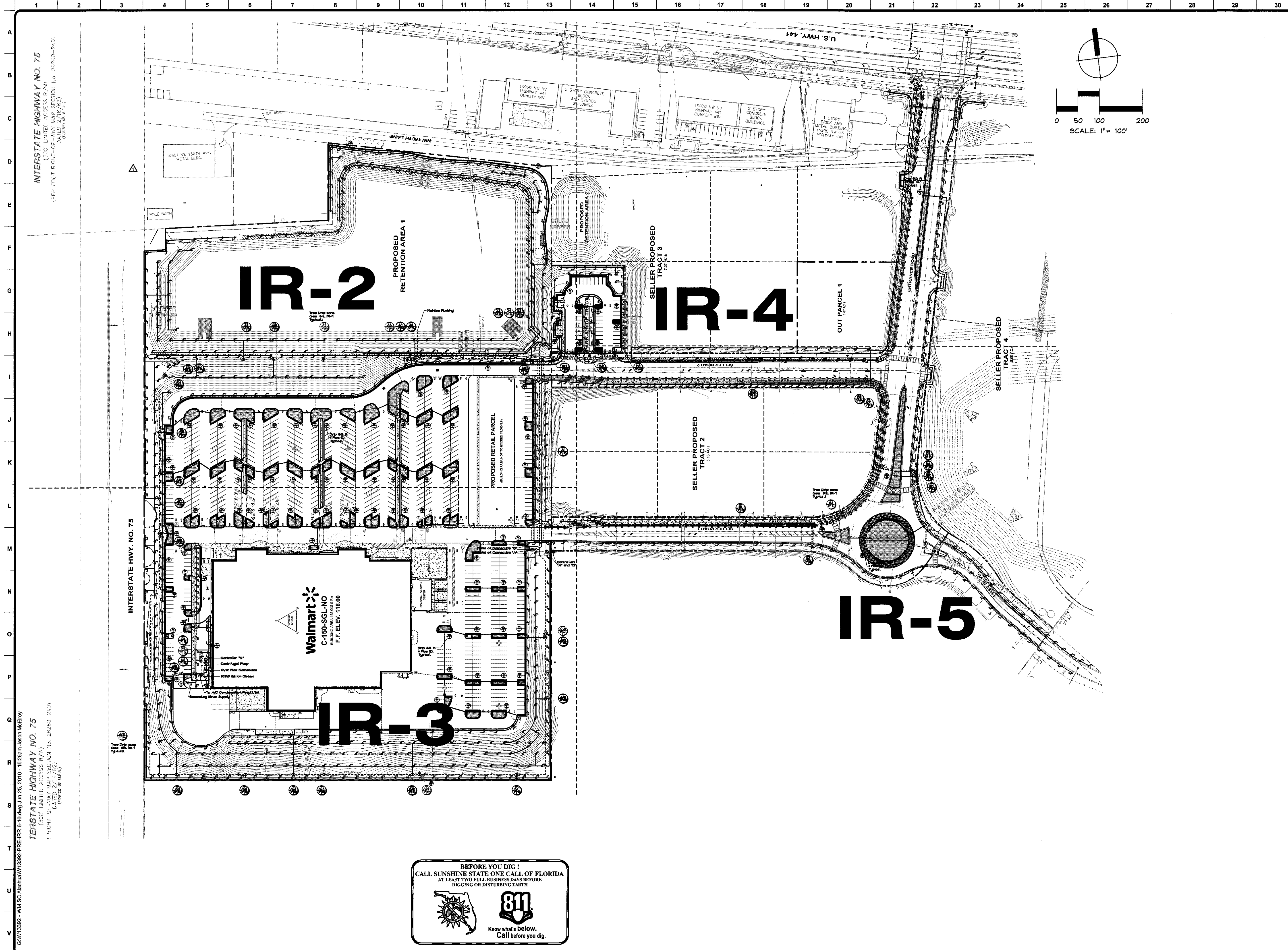
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Surveyors
Architects
Planners
Landscape Architects
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Construction Management
Traffic / Transportation

Eng. C.O.A. No. 3215
Survey L.B. No. 7143
Arch. Lic. No. AA260926
Landscape Lic. No. LC000298
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City Submittal
Revision
No. Date
6/18/10

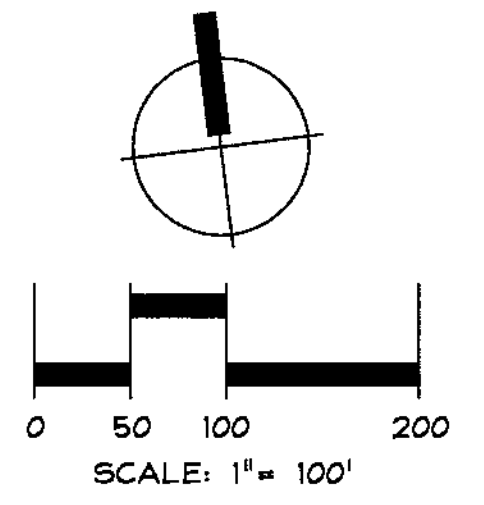
Walmart
STORE NO. 3873-00, ALACHUA (SEC. I-75 & HWY 441), FLORIDA

Sheet No. **L-6**



INTERSTATE HIGHWAY NO. 75
 (300' LIMITED ACCESS R/W)
 (PER PDOT RIGHT-OF-WAY MAP SECTION No. 26280-2401
 DATED 2/16/02)
 (SEE SHEET 16)

INTERSTATE HWY. NO. 75



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 Survey L.B. No. 7143
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 Landsep. Lic. No. LC0000298
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Designed by:	B.G.M.	Checked by:	J.K.W.	Scale:	1" = 100'	Date:	6/18/10
Drawn by:	B.G.M.	Approved by:	G.J.P.	Dater:	09/16/08	Job No.:	W13392
File:	W13392-IRR-APP 6-10.dwg						

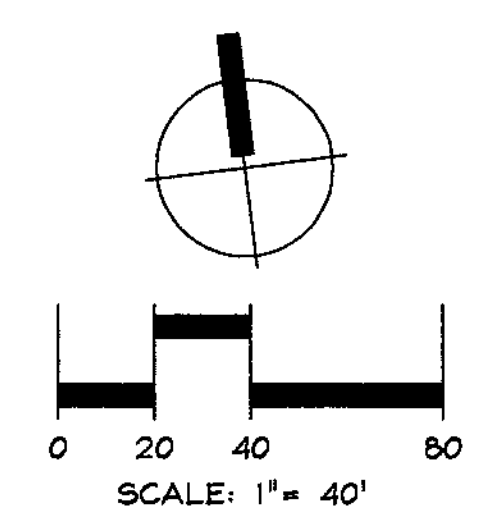
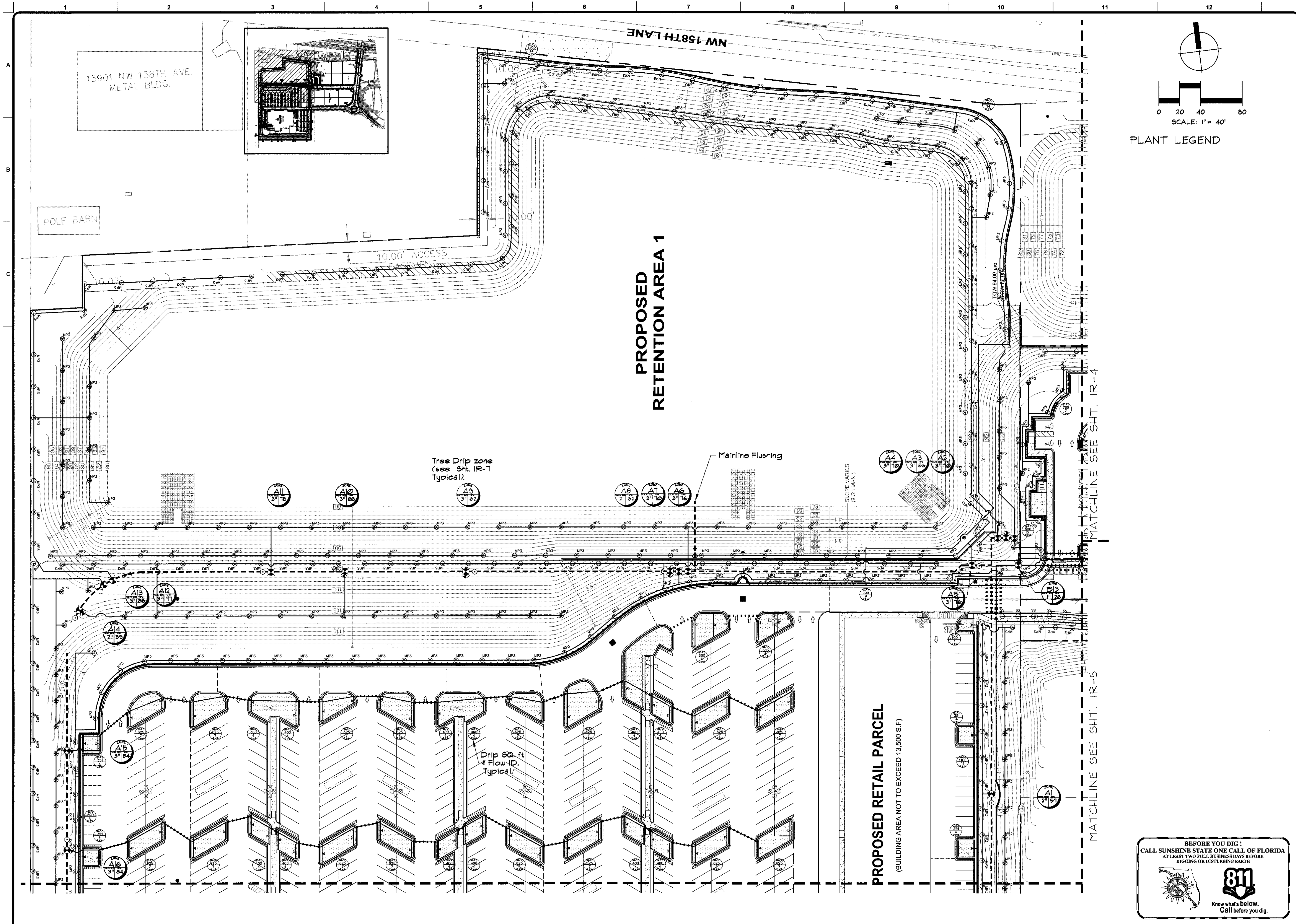
Revision	By	Date
CITY SUBMITTAL	CJP	

Overall Irrigation Plan	Walmart
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STORE NO. 3873-00, ALACHUA (SEC 175 & HWY 441), FLORIDA

Sheet No.
IR-1





PLANT LEGEND

gph
 500 West Fulton Street
 Sanford, Florida 32771
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 Architects
 Planners
 Landscape Architects
 Environmental Scientists
 Construction Management
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 Survey L.B. No. 7143
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DESIGNED BY	J.S.M.
DRAWN BY	J.S.M.
CHECKED BY	J.K.W.
APPROVED BY	G.J.P.
SCALE	1" = 40'
DATE	09/16/08
JOB NO.	W13392
FILE	W13392-IRR-6-10.dwg
NO.	6/18/10
DATE	

CITY SUBMITTAL	GJP	By
Revision		

DESIGNED BY	J.S.M.
DRAWN BY	J.S.M.
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CITY SUBMITTAL	GJP	By
Revision		

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NO.	6/18/10
DATE	

CITY SUBMITTAL	GJP	By
Revision		

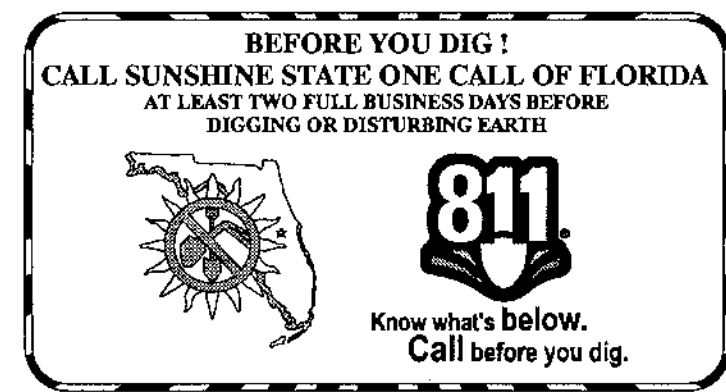
IRRIGATION PLAN

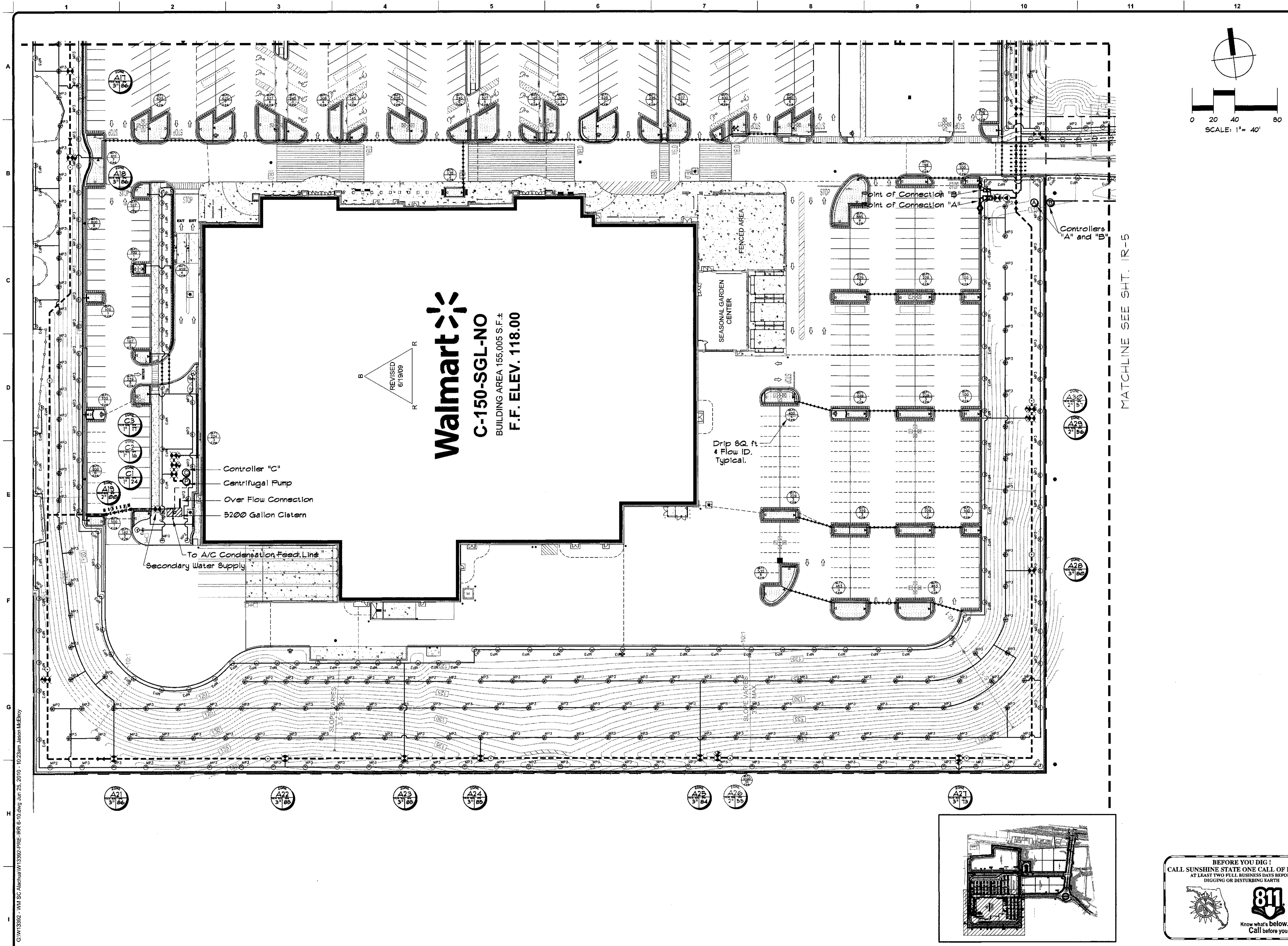
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STORE NO. 3873-00, ALACHUA (SEC 175 & HWY 441), FLORIDA

Sheet No.

IR-2





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 Survey L.B. No. 7143
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DESIGNED BY: G.M.P.
 DRAWN BY: J.K.W.
 CHECKED BY: G.J.P.
 APPROVED BY: G.J.P.
 SCALE: 1" = 40'
 DATE: 09/16/08
 JOB NO.: W13392

DATE: 6/18/10
 NO. 1
 CITY SUBMITTAL
 REVISION

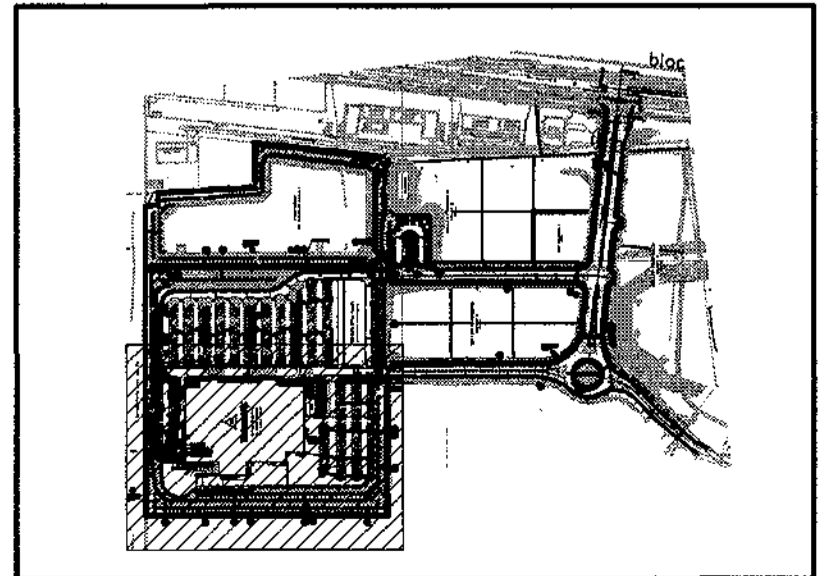
BY: GJP

DESIGNED BY:	B.G.M.	DATE:	NO.
Drawn by:	B.G.M.	09/16/08	1
Checked by:	J.K.W.	09/16/08	1
Approved by:	G.J.P.	09/16/08	1
Scale:	1" = 40'	09/16/08	1
Date:	09/16/08	09/16/08	1
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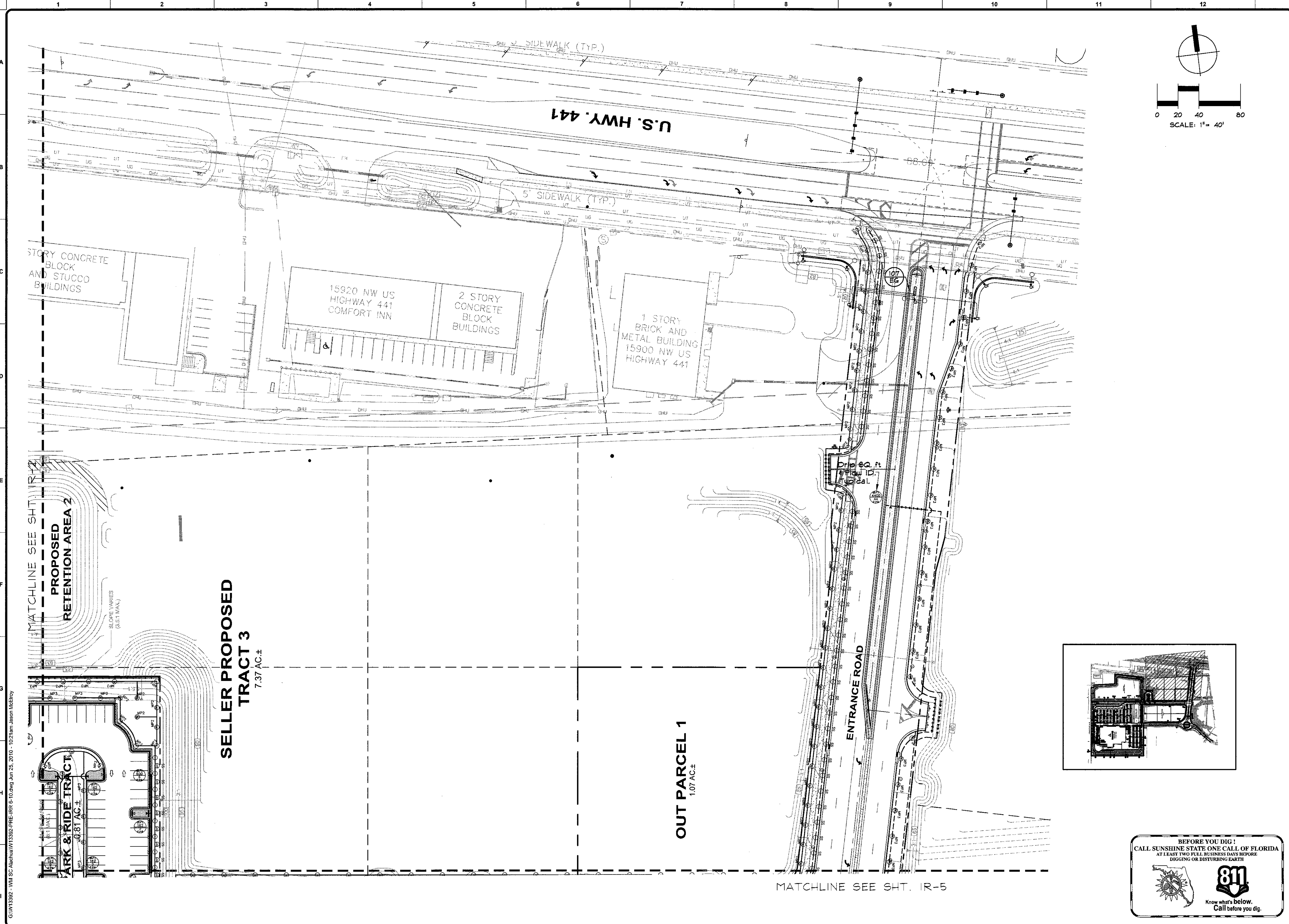
IRRIGATION PLAN

STORE NO. 3873-00, ALACHUA (SEC 17.5 & HWY 441), FLORIDA

Sheet No. **IR-3**



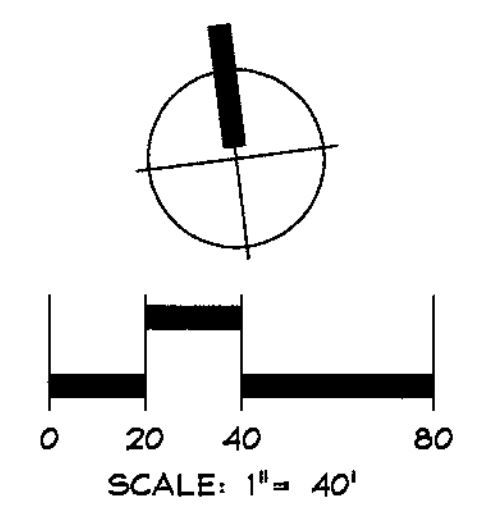
G:\W13392 - W1 SC-Alachua\W13392-IRR-6-10.dwg Jun 25, 2010 - 10:23am Jason McElroy



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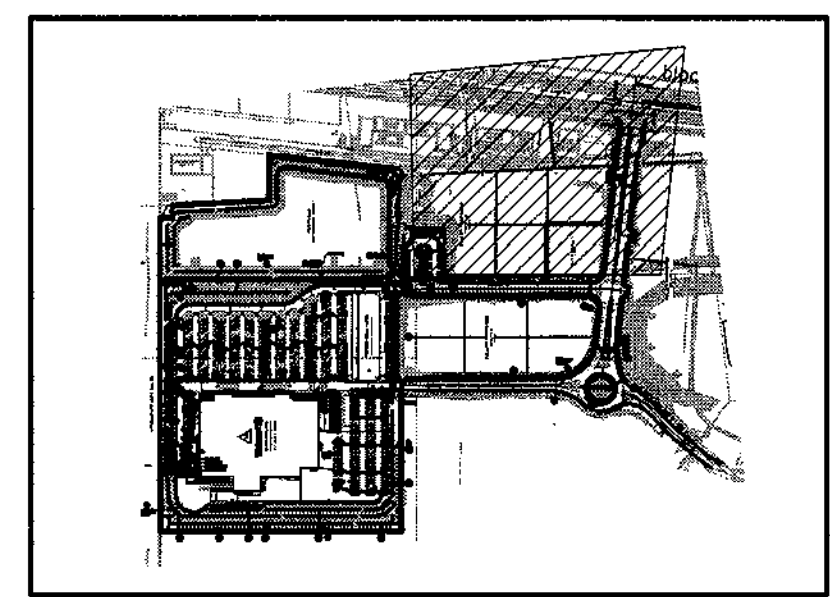
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Gene J. Pugh, R.E.
 U0607322

Designed by:	B.G.M.	No.	Date
Drawn by: <td>B.G.M.</td> <td>▲</td> <td></td>	B.G.M.	▲	
Checked by: <td>J.K.W.</td> <td>▲</td> <td></td>	J.K.W.	▲	
Approved by: <td>G.J.P.</td> <td>▲</td> <td></td>	G.J.P.	▲	
Scale: <td>1" = 40'</td> <td>▲</td> <td></td>	1" = 40'	▲	
Date: <td>09/16/08</td> <td>▲</td> <td></td>	09/16/08	▲	
Job No.: <td>W13392</td> <td>▲</td> <td>6/18/10</td>	W13392	▲	6/18/10
File:	W13392-PRE-IRR-10.dwg	▲	
			CITY SUBMITTAL
			Revision
			GJP
			By



BEFORE YOU DIG!
 CALL SUNSHINE STATE ONE CALL OF FLORIDA
 AT LEAST TWO FULL BUSINESS DAYS BEFORE
 DIGGING OR DISTURBING EARTH

Know what's below.
 Call before you dig.

IRRIGATION PLAN

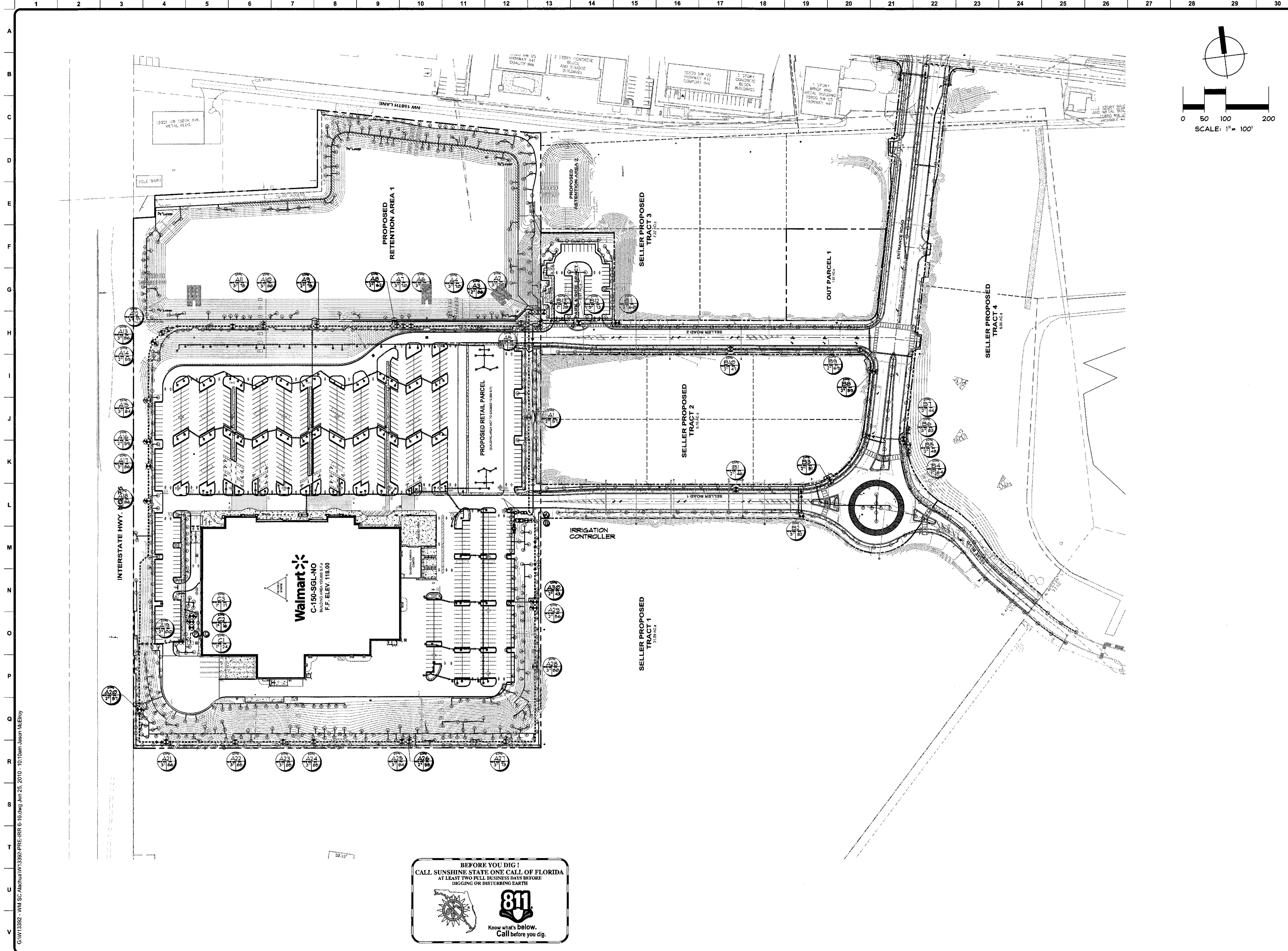


STORE NO. 3873-00, ALACHUA (SEC 17.5 & HWY 441), FLORIDA

Sheet No.

IR-4

GW13392 - W13 SC Alachua W13392-PRE-IRR 6-10.dwg Jun 25, 2010 - 10:21am Jason McElroy



cph
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 Sanford, Florida 32777
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 Phone 407 322-6841
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Engineers
 Surveyors
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Gain J. Singh, R.L.A.
 JG081012

Revision	By	Date
CITY SUBMITTAL	GJP	6/18/10

Designed by:	B.G.M.	6/18/10
Drawn by:	B.G.M.	
Checked by:	J.K.W.	
Approved by:	G.J.P.	
Scale:	1" = 100'	
Date:	09/15/08	
Job No.:	W13392	
File:	W13392-PRE-IRR-0.dwg	

TREE IRRIGATION PLAN

Walmart

STORE NO. 3873-00, ALACHUA (SEC L-75 & HWY 441), FLORIDA

Sheet No.
IR-6

BEFORE YOU DIG!
 CALL SUNSHINE STATE ONE CALL OF FLORIDA
 AT LEAST TWO FULL BUSINESS DAYS BEFORE
 DIGGING OR DISTURBING EARTH

811
 Know what's below.
 Call before you dig.

GIW13392 - VIM SC - Alachua\W13392-IRR-0-10.dwg, Jun 25, 2010 - 10:10am Jason McEnoy

GENERAL NOTES

- THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF THE PROJECT SPECIFICATIONS PRIOR TO BIDDING. THE PROJECT SPECIFICATIONS ARE PART OF THE CONTRACT AND SHALL BE CONTROLLED BY THE IRRIGATION CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING WORK AS SPECIFIED IN THE PROJECT SPECIFICATION AND ON THE PLANS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, EQUIPMENT QUANTITIES, AND UTILITY LOCATIONS PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES IN PLANS OR SPECIFICATIONS PRIOR TO BEGINNING OR CONTINUING WORK.
- THE IRRIGATION CONTRACTOR SHALL MAKE NO SUBSTITUTIONS, DELETIONS, OR ADDITIONS TO THIS PLAN WITHOUT APPROVAL OF THE LANDSCAPE ARCHITECT.
- ALL CONSTRUCTION SHALL CONFORM TO CITY, COUNTY, STATE, AND FEDERAL REQUIREMENTS. IT SHALL BE THE IRRIGATION CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL IRRIGATION EQUIPMENT MEETS GOVERNMENT REGULATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS OR APPROVALS.
- THIS PLAN IS SCHEMATIC AND DUE TO THE NATURE OF CONSTRUCTION LIGHT FIELD MODIFICATIONS MAY BE NECESSARY TO IMPLEMENT PLAN.
- THESE PLANS SHOW THREE DIFFERENT IRRIGATION SYSTEMS, WITH EACH SYSTEM HAVING ITS OWN WATER SOURCE AND CONTROLLER. THE IRRIGATION CONTRACTOR WILL BE EXPECTED TO VERIFY ALL REQUIRED FLOWS AT THE PROPOSED WATER SOURCES. ALL FLOW TESTS SHALL BE PERFORMED AT 60 PSI, AND BEFORE ANY OTHER WORK IS STARTED ON THAT SYSTEM. (SEE CONTROLLER ZONE CHARTS FOR THE REQUIRED MAXIMUM FLOW RATES).
- THE ELECTRICAL POWER SUPPLY TO THE IRRIGATION CONTROLLERS AND PUMP STATION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE CONTROLLERS AND THE ALL LOW VOLTAGE WIRES, FROM THE CONTROLLER TO REQUIRED REMOTE CONTROL EQUIPMENT.
- ALL PIPING AND WIRE PASSING UNDER PLAYED AREAS SHALL BE SLEEVED WITH SCH 40 PVC PIPE, SIZES A MINIMUM DIAMETER OF 2" OR TWO NOMINAL SIZES LARGER THAN THE CONTAINED PIPE. (SEE ADDITIONAL SLEAVES ON SHEET IR-6)
- EXISTING TREES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. DO NOT TRENCH OR EXCAVATE WITH THE CRITICAL ROOT ZONE (OR DRILLLINE IF CRITICAL ROOT ZONE IS NOT DETERMINED) OF ANY TREE.
- IRRIGATION LATERAL LINES, MAIN LINES AND EQUIPMENT MAY BE SHOWN OUTSIDE PROPERTY LINES ON THIS PLAN. ALL IRRIGATION LINES AND EQUIPMENT ARE TO BE WITHIN AND INSTALLED WITHIN THE LIMITS OF THE PROPERTY LINE.
- ALL HEADS SHALL BE OF THE PROPER TYPE FOR THE AREAS WHERE LOCATED, AND SHALL BE INSTALLED PLUMB AND WITH THE PROPER HEIGHT. LOCATE HEADS A MINIMUM OF 24" FROM PARKING 12" FROM DRIVEWAYS.
- ALL PLANT MATERIAL IN TREE HOLDING AREAS SHALL BE MANUALLY WATERED OR IRRIGATED UNTIL PLANTED.
- ALL WORK SHALL BE CLOSELY COORDINATED WITH THAT OF OTHER TRADES, IN ORDER TO AVOID CONFLICTS. REFER TO LANDSCAPE AND UTILITIES PLANS WHEN TRENCHING TO AVOID TREES, SHRUBS AND UNDER GROUND UTILITIES.
- THE INSTALLER SHALL BE EXPECTED TO BE FAMILIAR WITH AND FOLLOW THE INSTRUCTIONS CONTAINED HEREIN, ON THE DRAWINGS, IN THE MANUFACTURER'S DETAILS, AND IN THE WRITTEN SPECIFICATIONS. SHOULD A CONFLICT BE DISCOVERED WITHIN THE DOCUMENTS, HE SHALL IMMEDIATELY NOTIFY THE PROJECT MANAGER AND REQUEST CLARIFICATION.
- THE INSTALLER SHALL PROVIDE THE PROPERTY OWNER WITH AN IRRIGATION MAINTENANCE CHECKLIST & SEASONAL WATERING GUIDELINES.
- THE IRRIGATION SYSTEM SHALL BE MAINTAINED AND MANAGED TO ENSURE WATER EFFICIENCY AND PREVENT WASTEFUL PRACTICES. THIS SHALL INCLUDE, BUT NOT LIMITED TO, FLUSHING THE FILTERS, TESTING, MONITORING, ADJUSTING & REPAIRING THE IRRIGATION EQUIPMENT.
- PVC SOLVENT CEMENT SHALL CONFORM TO ASTM D2564
- ALL CONTROL WIRING SHALL BE INSTALLED UNDER MAINLINE, IF NOT POSSIBLE THEN ELEC. CONDUIT SHALL BE USED FOR WIRE PROTECTION USING FULL BOXES 150' O.C. WIRES SHALL BE TAPED EVERY 10 LF. WITH ADEQUATE BLACK AND BURSE/ EXPANSION LOOPS AND SHALL BE OILED ONLY IN VALVE BOXES, USING DRY CONNECTORS. THE CONTROL WIRE SHALL BE 18 GA. PVC JACKETED, SINGLE CONDUCTOR CABLE USING RED FOR "HOT" AND WHITE FOR VALVE COMMON. (SEE PLAN FOR SPARE WIRES).
- THE IRRIGATION CONTRACTOR SHALL PROVIDE THE OWNER WITH AN AUTO-CADD AS-BUILT DRAWING SHOWING MEASUREMENTS FROM A MIN. OF TWO HARD-SCAPE CORNERS TO ALL CONTROL VALVES AND EQUIPMENT. THE DRAWING SHALL INDICATE THE WIRE PATHS

CONTROLLER "A" ZONE CHART

ZONE #	TYPE	GPM	RUN TIME	GPD
C1	TURF ROTATOR	25	60 MIN.	5100
C2	SHRUB DRIP	100	30 MIN.	6000
C3	SHRUB DRIP	100	30 MIN.	1000
C4	SHRUB DRIP	91	30 MIN.	2910
C5	TREE EMITTER	95	18 MIN.	1182
C6	SHRUB DRIP	96	30 MIN.	2880
C7	SHRUB DRIP	102	30 MIN.	3060
C8	SHRUB DRIP	102	30 MIN.	3060
C9	TREE EMITTER	60	18 MIN.	1080
C10	TURF ROTATOR	102	60 MIN.	6120
C11	SHRUB DRIP	102	30 MIN.	3060
C12	SHRUB DRIP	90	30 MIN.	2700
C13	TREE DRIP	92	12 MIN.	1176
C14	TURF ROTATOR	98	60 MIN.	5820
C15	SHRUB DRIP	90	30 MIN.	2700
C16	TURF ROTATOR	95	60 MIN.	5700
C17	TURF ROTATOR	92	60 MIN.	5520
C18	TREE DRIP	95	12 MIN.	1140
C19	TURF ROTATOR	95	60 MIN.	5700
C20	TURF ROTATOR	94	60 MIN.	5460
C21	TURF ROTATOR	94	60 MIN.	5460
C22	TURF ROTATOR	112	60 MIN.	6720
C23	TURF ROTATOR	58	60 MIN.	3480
C24	TREE DRIP	98	12 MIN.	1176
TOTAL			19.9 HR.	88684

CONTROLLER "B" ZONE CHART

ZONE #	TYPE	GPM	RUN TIME	GPD
D1	TURF ROTATOR	20	60 MIN.	1200
D2	TURF ROTATOR	20	60 MIN.	1200
D3	SHRUB DRIP	24	30 MIN.	720
D4	TREE DRIP	22	12 MIN.	264
D5	TURF ROTATOR	20	60 MIN.	1200
TOTAL			3.1 HR.	5544

CONTROLLER "C" ZONE CHART

ZONE #	TYPE	GPM	RUN TIME	GPD
E1	TURF ROTATOR	18	60 MIN.	1080
E2	TREE DRIP	20	12 MIN.	240
E3	TURF ROTATOR	23	60 MIN.	1380
E4	SHRUB DRIP	22	30 MIN.	660
E5	TURF ROTATOR	23	60 MIN.	1380
E6	SHRUB DRIP	20	30 MIN.	600
TOTAL			4.2 HR.	5340

EQUIPMENT LEGEND

Symbol	MFR	DESCRIPTION
☒	RAINBIRD	BPE Series electric remote-control valve installed in Ametek 12"x18" valve box. (see valve ID on plan for sizes).
☒	MATCO	3" or smaller pressure Break Gate Valve with 6000 WOG rating as manufactured by Red-White Valve Corporation.
☒	APPROVED	4" Irrigation Water Meters by owners Rep.
☒	APPROVED	2" Irrigation Water Meters by owners Rep.
☒	AMES	The Irrigation Contractor shall tie into the discharge side of the irrigation meter and install a 4" RPZ type backflow device.
☒	AMES	The Irrigation Contractor shall tie into the discharge side of the irrigation meter and install a 3" RPZ type backflow device.
☒	SUPERIOR	3" Master Valve with Superior Series Automatic Globe Valve installed in a Ametek 12" x 18" valve box. Valve shall be energized by master valve circuit on automatic controller "A".
☒	CALBENSE	R1-3 Flow Meter with a bronze case. The flow sensor shall be installed and wired directly to the control "A" system per the manufacturer's written specifications.
☒	CALBENSE	ET1000E-40-RB-RS-E-85E-RD Irrigation Controller with a Model RS-1 Rain Bucket and a Model ETG 10/ Model ETGE Vandal Resistant ET Gauge Enclosure. Irrigation Controller and Weather Equipment is to be field located in the approximate location and installed per the manufacturer's written specifications. Install wire from flow meter and communication cable from ET Gauge in conduit. The Owner is to supply the analog phone line to the controller.
☒	HUNTER	CC-800-PP in-line pressure compensating controller with a wireless Rain Click to be installed at the approximate location.
☒	CALBENSE	ET1000E-6-GR-(TPP)-GR-Subsity-Com-TFR & Station Controller With RS-1 Rain Bucket.
☒	BERKLY	2 HP Belt Driven Centrifugal Pump 20LTH44 installed within a 4" Hot-Box Fiberglass Enclosure 19" x 30" x 20". In. Contractor to verify available Power before installation.
☒	OLDCASTLE	9200 Gallon capacity precast concrete Cistern that measure 8' x 8' x 14' including all penetrations and Access Hatch or Manhole cover. (see Sht. IR-8).
☒	APPROVED	3" PVC Class 200 IPS Ring Tite Plastic Pipe (Mainline A), Trust Blocks shall be used on all mainline joints. Bell socket joints shall be used on 2" and smaller.
☒	APPROVED	PVC Class 200 IPS Plastic Pipe (Bell and socket joints shall be used on 2" and smaller. Field located with Owners Rep. approval.
☒	APPROVED	PVC Sch. 40 Plastic Pipe (Lateral line). Locations shown for clarity only and shall be field located per local codes.
☒	APPROVED	PVC Sch. 40 Plastic Pipe (Right of Way Lateral line). Locations shown for clarity only and shall be field located per local codes.
☒	APPROVED	PVC Schedule 40 IPS Plastic Pipe (Bleever). Size shall be twice the dia. of the required inner pipe. 2" sleeve shall be the smallest sized used.
☒	APPROVED	BPR 135 Poly pipe shall be installed under roadway using the Directional Boring Method. Bleever size shall be twice the dia. of the inner pipe.
☒	NETAFIM	TLCV-9-12 in-line pressure compensating drip tubing and accessories installed in 18" rows per the manufacturer's written installation specifications.
☒	NETAFIM	*TL50V Shut Off Valve installed on the exhaust header 4' located in a valve box with gravel sump installed per manufacturer's written specifications (typ).
☒	APPROVED	PVC class 200 supply header to Netafim drip tubing connection (typ).
☒	HUNTER	ICV-48 Series electric remote-control drip valve with ACCU-Set pressure regulation installed in Ametek 12" x 18" valve box. A Tachline 2" Mesh Disc Filter located in a separate RAINBIRD VB-Max valve box. (to be installed and maintained per the manufacturer's written specifications).
☒	NETAFIM	Install (2) spare control wires and a neutral from the irrigation controller to the nearest valve box located in this area.
☒	APPROVED	

MP ROTATOR LEGEND AND NOZZLE CHART

Symbol	MFR	DESCRIPTION	Nozzle Radius ft.	PSI	Flow GPM
☒	HUNTER	360° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP3000 30'	40	36.4
☒	HUNTER	210° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 19'	40	14.7
☒	HUNTER	180° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 19'	40	14.7
☒	HUNTER	90° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	60° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	30° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	15° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	7.5° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	3.75° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	1.875° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.9375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.46875° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.234375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.1171875° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.05859375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.029296875° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.0146484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.00732421875° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.003662109375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.0018310546875° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.00091552734375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.000457763671875° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.0002288818359375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.00011444091796875° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.000057220458984375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.0000286102294921875° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.00001430511474609375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.000007152557373046875° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.0000035762786865234375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.00000178813934326171875° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.000000894069671630859375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.0000004470348358154296875° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.00000022351741790771484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.0000001117587089538571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.000000055879354476928571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.00000002793967723846428571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.0000000139698386192321428571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.000000006984919309616071428571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.00000000349245965480803571428571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.0000000017462298274040178571428571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.000000000873114913702008928571428571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.00000000043655745685100446428571428571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.0000000002182787284255022321428571428571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.000000000109139364212751116071428571428571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.00000000005456968210637555803571428571428571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.00000000002728484105318777928571428571428571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.0000000000136424205265938896428571428571428571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.00000000000682121026329694482321428571428571428571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.0000000000034106051316484724116071428571428571428571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.000000000001705302565824236055803571428571428571428571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.000000000000852651282912118027928571428571428571428571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.000000000000426325641455901091377928571428571428571428571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.0000000000002131628207279505456896428571428571428571428571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.000000000000106581410363977272829694482321428571428571428571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.0000000000000532907051819886364116071428571428571428571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.00000000000002664535259094482321428571428571428571428571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.0000000000000133226762954724116071428571428571428571428571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.000000000000006661338147621211802792829694482321428571428571428571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.0000000000000033306690738109137792829694482321428571428571428571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.00000000000000166533453690545689642829694482321428571428571428571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.000000000000000832667268452727950545689642829694482321428571428571428571484375° Arc MFR140-06-CV (6" POP-UP SPRAY) Installed Using 12" PRO-FLEX Tubing	MP1000 14'	40	14.7
☒	HUNTER	0.000000000000000416333634226363977272829694482321			