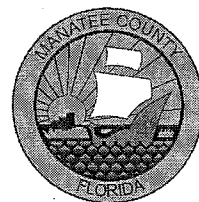


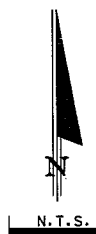
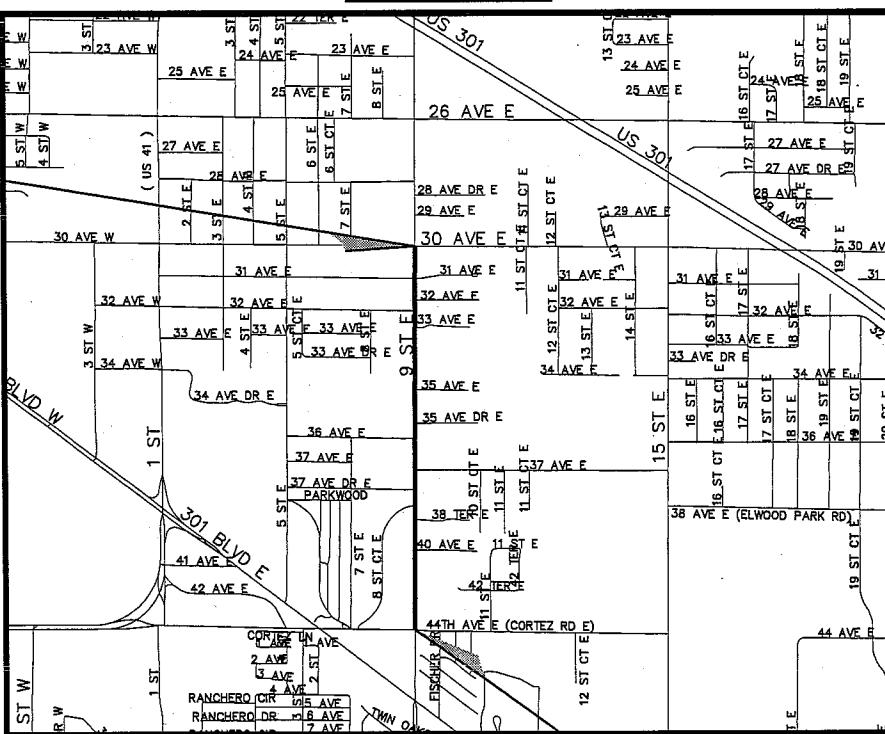
MANATEE COUNTY
BOARD OF COUNTY COMMISSIONERS
BRADENTON, FLORIDA



PLANS OF PROPOSED
**ROWLETT ELEMENTARY SCHOOL
SIDEWALK PHASE IV**

COUNTY PROJECT NO. 6044161
CSDG PROJECT NO. 17873.05
MANATEE COUNTY, FLORIDA

SI T35S R17E



LOCATION MAP

PROJECT LENGTH
3963.46 OR 0.70 MILES

100% BID PLANS
APRIL 7, 2011

CSDG PROJ. NO.	SHEET NO.
024002009	1

INDEX OF PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SUMMARY OF PAY ITEMS
3	TYPICAL SECTION
4-10	PLAN AND PROFILE
11-18	CROSS SECTIONS
19-20	DRAINAGE DETAILS
21-22	MISCELLANEOUS DETAILS
23	STORMWATER POLLUTION PREVENTION PLAN

*TEXT IN BOLD INCLUDED IN SET
TEXT NOT IN BOLD NOT INCLUDED IN SET

UTILITY OWNERS

TOM WRIGHT
BRIGHT HOUSE
P.O. BOX 25206
BRADENTON, FL 34206

GREG COKER
FLORIDA POWER & LIGHT
1253 12TH AVENUE EAST
PALMETTO, FL 34221

DENISE HUTTON
VERIZON
1701 RINGLING BLVD.
SARASOTA, FL 34236

DAN SHANAHAN
TECO PEOPLES GAS
8261 VICO CT.
SARASOTA, FL 34240

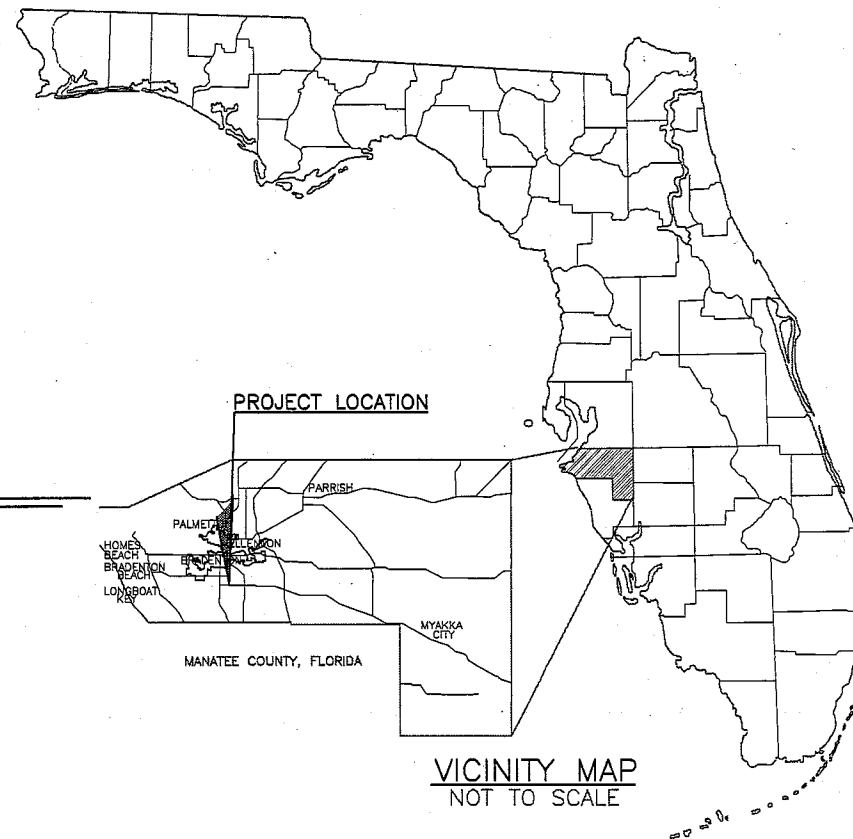
NOTES:

THE SCALE OF THESE PLANS MAY HAVE BEEN CHANGED DUE TO REPRODUCTION.

GOVERNING STANDARDS AND SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION, DESIGN STANDARDS DATED 2008, AND DIVISION II AND III OF THE STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2007, AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 7-1-09. FOR DESIGN STANDARDS MODIFICATIONS CLICK ON "DESIGN STANDARDS" AT THE FOLLOWING WEB SITE: [HTTP://WWW.DOT.STATE.FL.US/RDDSIGN/](http://www.dot.state.fl.us/rddesign/).

UNDERGROUND UTILITIES: THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS HAVE BEEN OBTAINED BY FIELD SURVEYS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THIS DATA IS ESSENTIALLY CORRECT. HOWEVER, THESE PLANS DO NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. THE CONTRACTOR WILL BE REQUIRED TO VERIFY THE EXACT LOCATION OF EACH FACILITY WITH THE UTILITY COMPANY WHEN THE POTENTIAL EXISTS FOR INVOLVEMENT AND SHALL TAKE DUE CARE IN ALL PHASES OF THE CONSTRUCTION TO PROTECT ANY SUCH FACILITIES WHICH MAY BE AFFECTED BY THE WORK. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.



PLANS PREPARED BY:

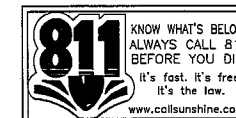


CivilSurv Design Group, Inc.
2525 Drone Field Rd.
Suite 7
Lakeland, FL 33811
Tel: 863-646-4771
Certificate of
Authorization
No. 2898B

ENGINEER OF RECORD:

John E. Howie, P.E.
P.E. NO. 27584

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN ALTERED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.



ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE TO BE CONSIDERED APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF WORK OPERATIONS.

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

APPROVED BY: John E. Howie, P.E. NO. 27584

DATE: _____

SUMMARY OF PAY ITEMS

NUMBER	PAY ITEM DESCRIPTION	UNIT	QUANTITY
101- 1-	MOBILIZATION	LS	1.00
102- 1-	MAINTENANCE OF TRAFFIC	LS	1.00
102- 3-	COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE	CY	100
104- 10- 3	SEDIMENT BARRIER	LF	3,717
104-18	INLET PROTECTION SYSTEM	EA	5
110- 1- 1	CLEARING AND GRUBBING	LS	1
110- 4-	REMOVAL OF EXISTING CONCRETE PAVEMENT	SY	150
110- 7- 1	MAIL BOX (FURNISH AND INSTALL)	EA	13
120- 1-	REGULAR EXCAVATION	CY	128
120- 2- 2	BORROW EXCAVATION (TRUCK MEASURE)	CY	730
425- 1-351	INLETS (CURB TYPE P-5) (<10')	EA	1
425- 1-521	INLETS (DITCH BOTTOM TYPE "C") (<10')	EA	8
425- 1-533	INLETS (DITCH BOTTOM TYPE "C") (<10')(MODIFIED)	EA	5
425- 2- 71	MANHOLE (J-7) (= <10')	EA	1
425- 11	DRAINAGE STRUCTURE-MODIFY (EXISTING)	EA	3
430-175-115	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 15" S/CD	LF	395
430-175-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18" S/CD	LF	20
430-175-124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24" S/CD	LF	333
430-175-215	PIPE CULVERT, OPTIONAL MATERIAL, OTHER - ELIP/ARCH, 15" S/CD	LF	515
430-175-218	PIPE CULVERT, OPTIONAL MATERIAL, OTHER - ELIP/ARCH, 18" S/CD	LF	120
430-175-224	PIPE CULVERT, OPTIONAL MATERIAL, OTHER - ELIP/ARCH, 24" S/CD	LF	285
430-175-230	PIPE CULVERT, OPTIONAL MATERIAL, OTHER - ELIP/ARCH, 30" S/CD	LF	26
430-982-633	MITERED END SECTION, OPTIONAL - ELIP/ARCH, 30" CD	EA	1
430-984-125	MITERED END SECTION 18" (ROUND)(SD)	EA	1
430-984-623	MITERED END SECTION (SD)(OTHER ELIP/ARCH)(15")	EA	2
430-984-625	MITERED END SECTION (SD)(OTHER ELIP/ARCH)(18")	EA	1
520- 1- 10	CONCRETE CURB AND GUTTER (TYPE F)	LF	54
522- 1-	CONCRETE SIDEWALK, 4" THICK	SY	1,659
522- 2-	CONCRETE SIDEWALK, 6" THICK	SY	225
550- 10-220	FENCING TYPE B	LF	27
570- 1- 2	PERFORMANCE TURF (SOD)	SY	6,202
700- 20- 40	SINGLE SIGN POST (RELOCATE)	AS	8
711- 11-123	THERMOPLASTIC (WHITE, SOLID, 12")	LF	469
711- 11-125	THERMOPLASTIC (WHITE, SOLID, 24")	LF	36
1644-800	FIRE HYDRANT (RELOCATE)	EA	2
SPECIAL-01	SAW CUT (ASPHALT OR CONCRETE)	LF	150

PAY ITEM NOTES

- 101-1- INCLUDES COST OF RECORD DRAWINGS AND PRE-CONST. VIDEO/PHOTOGRAPHS
- 570-1-2 - INCLUDES COST OF TOPSOIL, FERTILIZER AND WATER NEEDED TO ESTABLISH A STAND OF GRASS IN THE COST OF PERFORMANCE TURF. (SOD)
- 522- 2 - INCLUDES SAW CUTTING AND REMOVAL OF EXISTING DRIVEWAY WITHIN SIDEWALK LIMITS
- 1644-800 - INCLUDES ALL COST FOR RELOCATION OF FIRE HYDRANT, INCLUDING TAPS, PIPING, FITTINGS, AND CAPPING EXSTING FIRE HYDRANT PIPE.

REVISIONS

Date	By	Description	Date	By	Description
06/11	RVD	REMOVED PAY ITEM NOTE			

MANATEE COUNTY
PUBLIC WORKS

CSDG Field Book No.:



CivilSurv Design Group, Inc.
2525 Drone Field Rd.
Suite 7
Lakeland, FL 33811
Tel: 863-646-4771

Certificate of
Authorization
No. 28988

	NAME	DATE
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DRAWN BY	EW	11/09
CHECKED BY	JEH	11/09

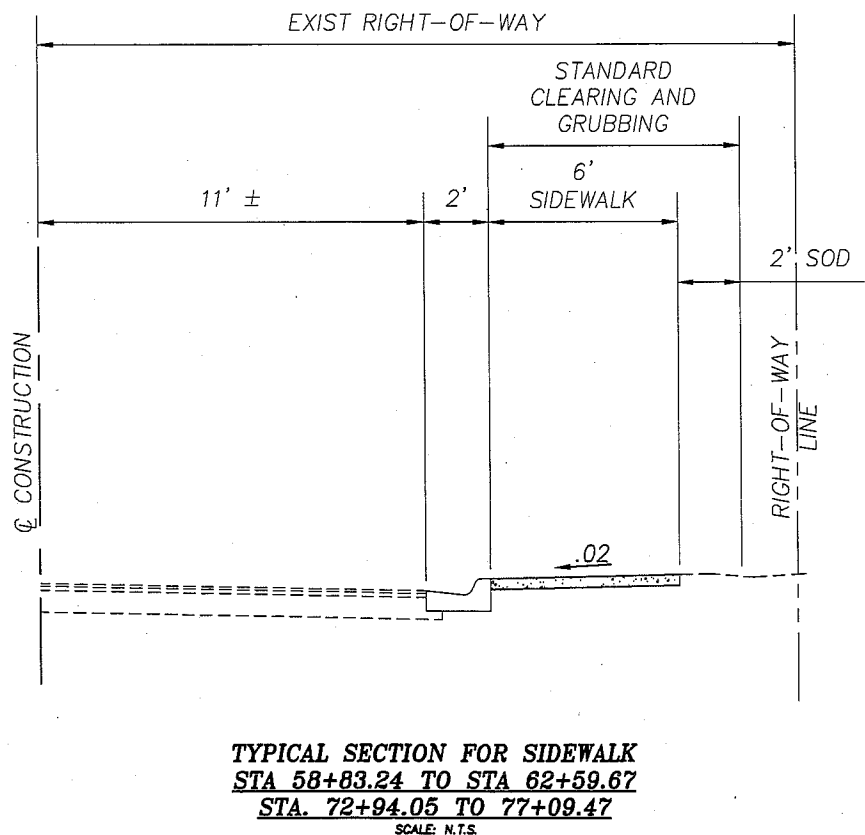
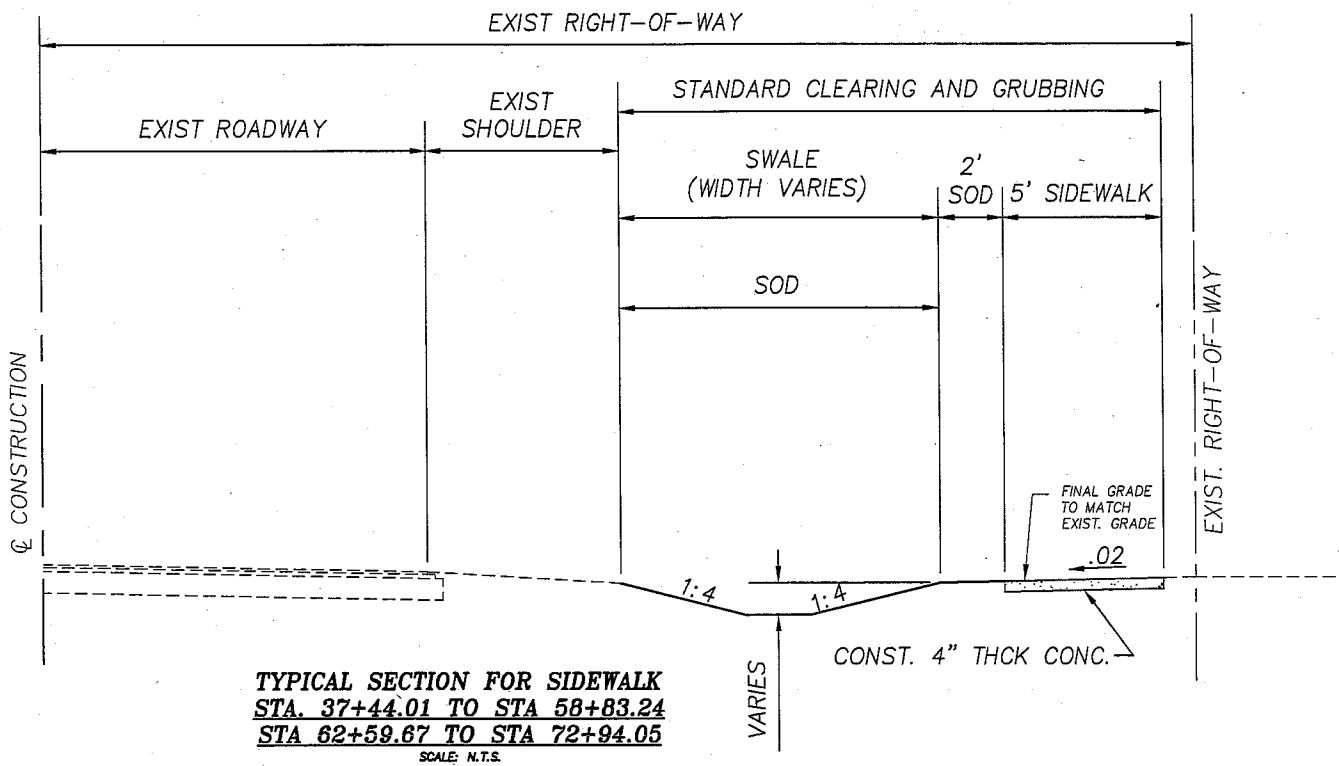
JOHN E. HOWLE, P.E.
FLA. REG. NO. 27584

DATE:

ROWLETT ELEMENTARY SCHOOL SIDEWALK PHASE IV
SUMMARY OF PAY ITEMS
MANATEE COUNTY, FLORIDA

LEGEND:

- SET 5/8" STEEL ROD WITH CAP STAMPED "KEITH & SCHNARS, PA" (UNLESS NOTED OTHERWISE)
- ⊙ FOUND NAIL & DISK STAMPED "ZNS LB 6982" (UNLESS NOTED OTHERWISE)
- FOUND 4"x4" CONCRETE MONUMENT WITH NO IDENTIFYING CAP OR DISC (UNLESS NOTED OTHERWISE)
- ▲ HORIZONTAL CONTROL POINT AND/OR BENCHMARK AS NOTED
- FOUND 5/8" STEEL ROD WITH NO IDENTIFYING CAP (UNLESS NOTED OTHERWISE)
- FOUND MONUMENTATION AS NOTED
- P PROPERTY LINE
- BL BASELINE
- STA STATION
- LT LEFT
- RT RIGHT
- PI POINT OF INTERSECTION
- ID IDENTIFICATION
- LB LICENSED BUSINESS NO.
- P.L.S. PROFESSIONAL LAND SURVEYOR
- P.S.M. PROFESSIONAL SURVEYOR AND MAPPER
- RLS REGISTERED LAND SURVEYOR
- (C) CALCULATED DIMENSION
- (D) DEED DIMENSION
- (F) FIELD DIMENSION
- (P) PLATTED DIMENSION
- P.R.M. PERMANENT REFERENCE MONUMENT
- P.C.P. PERMANENT CONTROL POINT
- O.R. OFFICIAL RECORD
- C/L CENTERLINE
- R/W RIGHT OF WAY
- EOP EDGE OF PAVEMENT
- MB MAILBOX
- X BARBED WIRE FENCE (B/W/F)
- CHAIN LINK FENCE (C/L/F)
- WOOD PRIVACY FENCE (W/P/F)
- X HOG WIRE FENCE (H/W/F)
- OH- OVERHEAD UTILITY LINE(S)
- ☆ WOOD UTILITY POLE
- ▲ LIGHT POLE (WOOD/CONCRETE)
- ↑ GUY ANCHOR
- CMP CORRUGATED METAL PIPE
- RCP REINFORCED CONCRETE PIPE
- MES MITERED END SECTION
- R ROADWAY/STREET SIGN
- VSC VERIZON SERVICE BOX/CONTROL PANEL
- VFB VERIZON SERVICE PULL BOX/VAULT
- VZD VERIZON DELINEATOR POST
- WM WATER METER
- WV WATER VALVE
- F/H FIRE HYDRANT
- ⊙ SANITARY SEWER MANHOLE
- ⊙ STORM/DRAINAGE MANHOLE
- GAS-DEL GAS LINE DELINEATOR
- PRV PRESSURE RELIEF VALVE
- CO CLEANOUT
- ⊠ ELECTRIC METER
- x^{5.6} TYPICAL SPOT ELEVATION



NOTE:

1. RELOCATE ANY WATER METERS LOCATED WITHIN THE LIMITS OF THE SIDEWALK AS DIRECTED BY THE MANATEE COUNTY UTILITIES DEPARTMENT. COST TO BE INCLUDED IN CLEARING AND GRUBBING.
2. INSTALL STORM PIPES WITH INVERT MATCHING SLOPE BETWEEN UPSTREAM & DOWNSTREAM PIPES, WHEN LOCATED WITHIN 500'. OTHERWISE, INSTALL PIPES 6" BELOW EXISTING DITCH ELEVATION (TAKE INTO CONSIDERATION SILTATION) OR AS DIRECTED BY THE ENGINEER.
3. IN ACCORDANCE WITH ADA AND FDOT REQUIREMENTS, THERE CANNOT BE A DROP OFF GREATER THAN 10 INCHES WITHIN 2 FEET OF SIDEWALK.
4. REPLACE ANY MAIL BOXES LOCATED WITHIN THE LIMITS OF THE SIDEWALK. THE LOCATION AND CONSTRUCTION OF MAIL BOXES SHALL CONFORM TO THE RULES AND REGULATIONS OF THE UNITED STATES POSTAL SERVICE AS MODIFIED BY FDOT DESIGN STANDARD INDEX 532.
5. ALL TREE LIMBS ALONG THE NEW PATH OF SIDEWALK ARE TO BE TRIMMED 7'-0" FROM FINAL GRADE OF SIDEWALK.
6. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE APPROPRIATE PARTIES TO DETERMINE THE COUNTY'S FIBER COMMUNICATION NETWORK (COUNTY ISD, SCHOOL BOARD, AND TRAFFIC MANAGEMENT CENTER) IN THE AREA TO ACCOMODATE ANY POTENTIAL CONFLICTS. AS-BUILT INFORMATION FOR EXISTING COMMUNICATION CONDUIT AND FIBER IS AVAILABLE FROM OLGA ROSIER, WITH UTILITY RECORDS (941-792-8811 EXT. 5059). CONSTRUCTION PLAN INFORMATION FOR PROJECTS UNDER CONSTRUCTION WITH THE COUNTY'S TRAFFIC MANAGEMENT CENTER ARE AVAILABLE AT WWW.MANATEEATMS.COM AND WWW.MANATEEATMS2.COM.
7. HORIZONTAL DATUM NAD 1983 (ADJ 1999) FL ZONE WEST VERTICAL DATUM NAVD 1988. TO CONVERT VERTICAL DATUM TO NGVD 29, ADD '1.05.
8. EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
9. EXISTING DRIVEWAYS WITHIN LIMITS OF CONSTRUCTION SHALL REMAIN UNLESS OTHERWISE NOTED.
10. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED. IF CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE COUNTY ENGINEERING DIVISION WITHOUT DELAY. ANY SURVEY MONUMENT REMOVED BY THE CONTRACTOR WITHOUT REFERENCE BEING ESTABLISHED, SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.

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REVISIONS								
Date	By	Description	Date	By	Description	Date	By	Description

MANATEE COUNTY PUBLIC WORKS
CSDG Field Book No.:

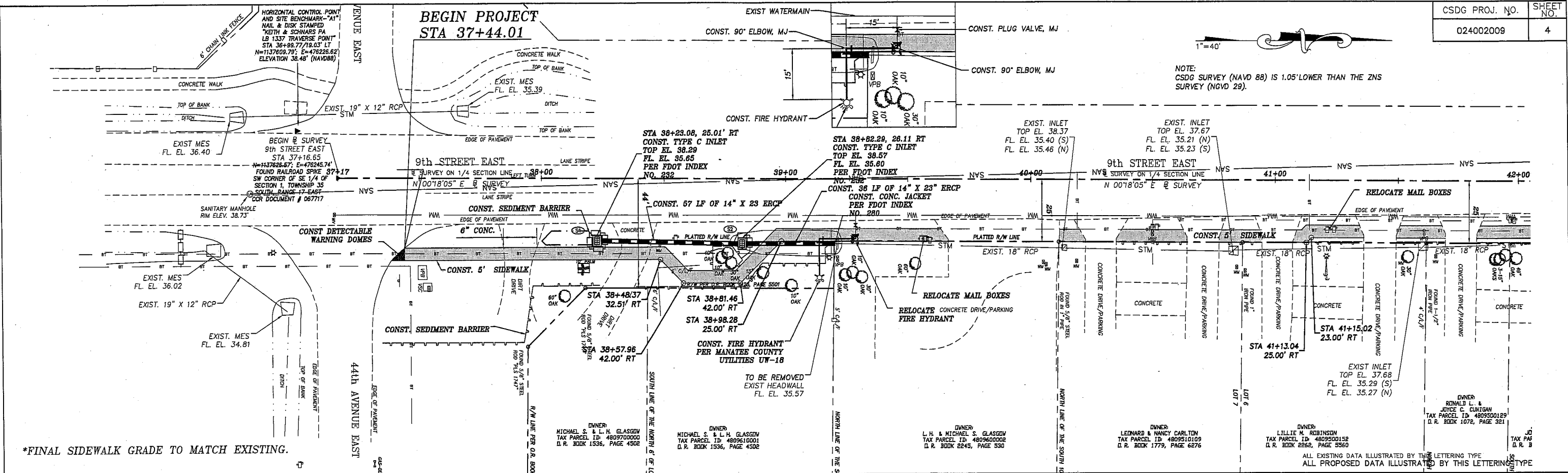
CIVILSURV
A Tradition of Innovative Engineering

CivilSurv Design Group, Inc.
2525 Drone Field Rd.
Suite 7
Lakeland, FL 33811
Tel: 863-646-4771
Certificate of Authorization No. 28988

NAME	DATE
DESIGNED BY KDL	11/09
DRAWN BY EW	11/09
CHECKED BY JEH	11/09

ROWLETT ELEMENTARY SCHOOL SIDEWALK PHASE IV
TYPICAL SECTION
MANATEE COUNTY, FLORIDA

NOTE:
CSDG SURVEY (NAVD 88) IS 1.05' LOWER THAN THE ZNS SURVEY (NGVD 29).



*FINAL SIDEWALK GRADE TO MATCH EXISTING.

Station	Grade	Notes	Station	Grade	Notes
37+00	37.99	BENCHMARK DATA: FOUND RAILROAD SPIKE SW CORNER OF SE 1/4 OF SECTION 1, TOWNSHIP 35 SOUTH, RANGE 17 EAST CCR DOCUMENT # 067717 N=1137626.57' E=476245.74' ELEVATION 38.48' (NAVD88)	37+00	37.99	
37+10	37.84	HORIZONTAL CONTROL POINT AND SITE BENCHMARK - "A1" NAIL & DISK STAMPED "KEITH & SCHNARS PA LB 1337 TRAVERSE POINT" STA 36+99.77/19.03' LT N=1137609.79' E=476226.62' ELEVATION 38.48' (NAVD88)	37+20	37.91	HORIZONTAL CONTROL POINT AND SITE BENCHMARK - "A2" 5/8" CAPPED STEEL ROD "KEITH & SCHNARS PA TRAVERSE POINT" STA 45+99.64/15.08' LT N=1138509.63' E=476235.31' ELEVATION 38.40' (NAVD88)
37+30	38.23	HORIZONTAL CONTROL POINT AND SITE BENCHMARK - "A3" 5/8" CAPPED STEEL ROD "KEITH & SCHNARS PA TRAVERSE POINT" STA 55+48.26/16.07' LT N=1139458.28' E=476239.30' ELEVATION 37.20' (NAVD88)	37+40	38.23	HORIZONTAL CONTROL POINT AND SITE BENCHMARK - "A4" 5/8" CAPPED STEEL ROD "KEITH & SCHNARS PA TRAVERSE POINT" STA 64+48.99/16.81' LT N=1140358.86' E=476243.31' ELEVATION 36.89' (NAVD88)
37+50	38.26	HORIZONTAL CONTROL POINT AND SITE BENCHMARK - "A5" 5/8" CAPPED STEEL ROD "KEITH & SCHNARS PA TRAVERSE POINT" STA 71+74.60/19.51' LT N=1141084.58' E=476244.52' ELEVATION 36.44' (NAVD88)	37+60	38.27	HORIZONTAL CONTROL POINT AND SITE BENCHMARK - "A6" 5/8" CAPPED STEEL ROD "KEITH & SCHNARS PA TRAVERSE POINT" STA 71+74.60/19.51' LT N=1141084.58' E=476244.52' ELEVATION 36.44' (NAVD88)
37+70	38.45	HORIZONTAL CONTROL POINT AND SITE BENCHMARK - "A7" 5/8" CAPPED STEEL ROD "KEITH & SCHNARS PA TRAVERSE POINT" STA 81+23.08/25.01' RT TOP EL. 38.29 FL EL. 38.65 PER FDOT INDEX NO. 232	37+80	38.44	HORIZONTAL CONTROL POINT AND SITE BENCHMARK - "A8" 5/8" CAPPED STEEL ROD "KEITH & SCHNARS PA TRAVERSE POINT" STA 81+23.08/25.01' RT TOP EL. 38.29 FL EL. 38.65 PER FDOT INDEX NO. 232
37+90	38.53	CONST. 57 LF OF 14" X 23" ERCP	37+90	38.53	CONST. 57 LF OF 14" X 23" ERCP
38+00	38.58	CONST. 36 LF OF 14" X 23" ERCP	38+00	38.58	CONST. 36 LF OF 14" X 23" ERCP
38+10	38.33	CONST. TYPE C INLET	38+10	38.33	CONST. TYPE C INLET
38+20	38.58	CONST. FIRE HYDRANT	38+20	38.58	CONST. FIRE HYDRANT
38+30	37.14	CONST. 57 LF OF 14" X 23" ERCP	38+30	37.14	CONST. 57 LF OF 14" X 23" ERCP
38+40	38.58	CONST. 36 LF OF 14" X 23" ERCP	38+40	38.58	CONST. 36 LF OF 14" X 23" ERCP
38+50	38.23	CONST. TYPE C INLET	38+50	38.23	CONST. TYPE C INLET
38+60	38.58	CONST. FIRE HYDRANT	38+60	38.58	CONST. FIRE HYDRANT
38+70	38.24	CONST. 57 LF OF 14" X 23" ERCP	38+70	38.24	CONST. 57 LF OF 14" X 23" ERCP
38+80	38.58	CONST. 36 LF OF 14" X 23" ERCP	38+80	38.58	CONST. 36 LF OF 14" X 23" ERCP
38+90	38.56	CONST. TYPE C INLET	38+90	38.56	CONST. TYPE C INLET
39+00	38.57	CONST. FIRE HYDRANT	39+00	38.57	CONST. FIRE HYDRANT
39+10	38.53	CONST. 57 LF OF 14" X 23" ERCP	39+10	38.53	CONST. 57 LF OF 14" X 23" ERCP
39+20	38.49	CONST. 36 LF OF 14" X 23" ERCP	39+20	38.49	CONST. 36 LF OF 14" X 23" ERCP
39+30	38.48	CONST. TYPE C INLET	39+30	38.48	CONST. TYPE C INLET
39+40	38.52	CONST. FIRE HYDRANT	39+40	38.52	CONST. FIRE HYDRANT
39+50	38.50	CONST. 57 LF OF 14" X 23" ERCP	39+50	38.50	CONST. 57 LF OF 14" X 23" ERCP
39+60	38.51	CONST. 36 LF OF 14" X 23" ERCP	39+60	38.51	CONST. 36 LF OF 14" X 23" ERCP
39+70	38.43	CONST. TYPE C INLET	39+70	38.43	CONST. TYPE C INLET
39+80	38.43	CONST. FIRE HYDRANT	39+80	38.43	CONST. FIRE HYDRANT
39+90	37.95	CONST. 57 LF OF 14" X 23" ERCP	39+90	37.95	CONST. 57 LF OF 14" X 23" ERCP
40+00	38.34	CONST. 36 LF OF 14" X 23" ERCP	40+00	38.34	CONST. 36 LF OF 14" X 23" ERCP
40+10	38.17	CONST. TYPE C INLET	40+10	38.17	CONST. TYPE C INLET
40+20	38.16	CONST. FIRE HYDRANT	40+20	38.16	CONST. FIRE HYDRANT
40+30	38.01	CONST. 57 LF OF 14" X 23" ERCP	40+30	38.01	CONST. 57 LF OF 14" X 23" ERCP
40+40	38.15	CONST. 36 LF OF 14" X 23" ERCP	40+40	38.15	CONST. 36 LF OF 14" X 23" ERCP
40+50	38.14	CONST. TYPE C INLET	40+50	38.14	CONST. TYPE C INLET
40+60	38.14	CONST. FIRE HYDRANT	40+60	38.14	CONST. FIRE HYDRANT
40+70	37.78	CONST. 57 LF OF 14" X 23" ERCP	40+70	37.78	CONST. 57 LF OF 14" X 23" ERCP
40+80	38.14	CONST. 36 LF OF 14" X 23" ERCP	40+80	38.14	CONST. 36 LF OF 14" X 23" ERCP
40+90	38.20	CONST. TYPE C INLET	40+90	38.20	CONST. TYPE C INLET
41+00	38.20	CONST. FIRE HYDRANT	41+00	38.20	CONST. FIRE HYDRANT
41+10	38.11	CONST. 57 LF OF 14" X 23" ERCP	41+10	38.11	CONST. 57 LF OF 14" X 23" ERCP

Date	By	Description	Date	By	Description

MANATEE COUNTY PUBLIC WORKS

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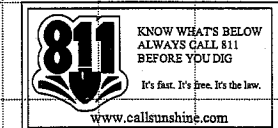
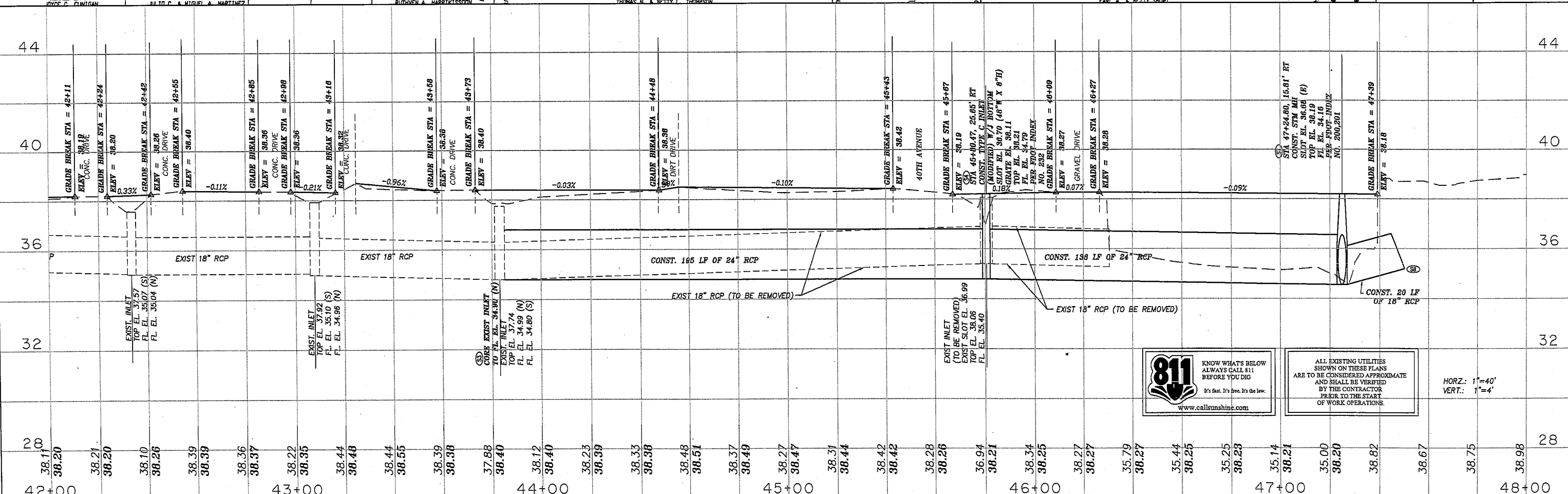
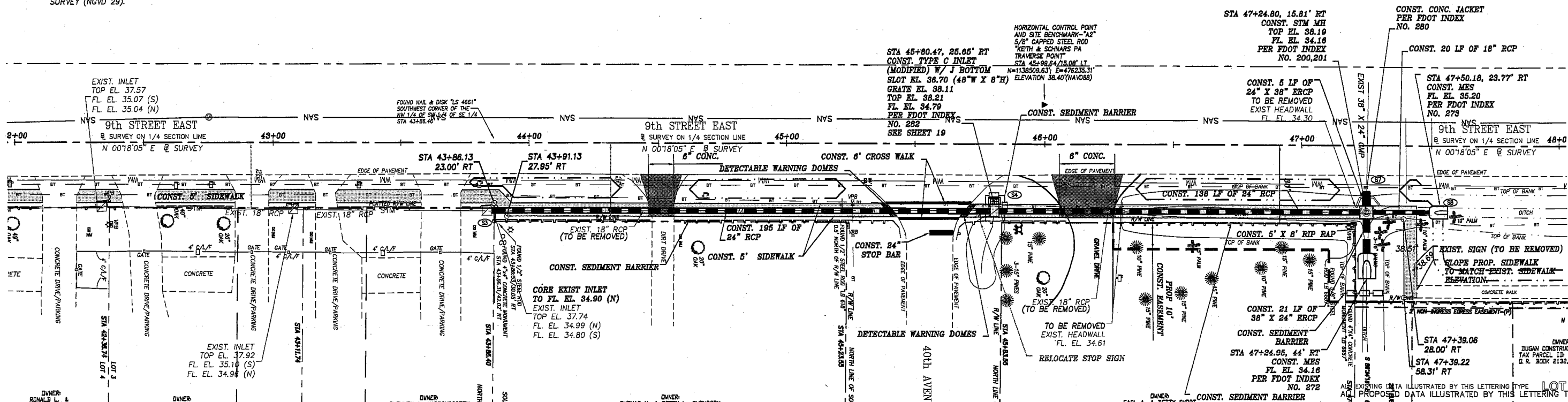
JOHN E. HOWLE, P.E.
FLA. REG. NO. 27584

ROWLETT ELEMENTARY SCHOOL SIDEWALK PHASE IV
PLAN & PROFILE SHEET
STA. 37+00 TO STA. 42+00
MANATEE COUNTY, FLORIDA

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*FINAL SIDEWALK GRADE TO MATCH EXISTING.

NOTE:
CSDG SURVEY (NAVD 88) IS 1.05' LOWER THAN THE ZNS
SURVEY (NGVD 29).



ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE TO BE CONSIDERED APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF WORK OPERATIONS.

HORIZ.: 1"=40'
VERT.: 1"=4'

REVISIONS					
Date	By	Description	Date	By	Description

<p>CivilSurvey Design Group, Inc. 2933 Bronco Field Rd. Suite 7 Lakeland, FL 33811 Tel: 883-646-6771</p>	DESIGNED BY	KDL	DATE	11/09
	DRAWN BY	EW	DATE	11/09
	CHECKED BY	JEH	DATE	11/09

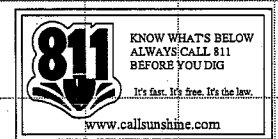
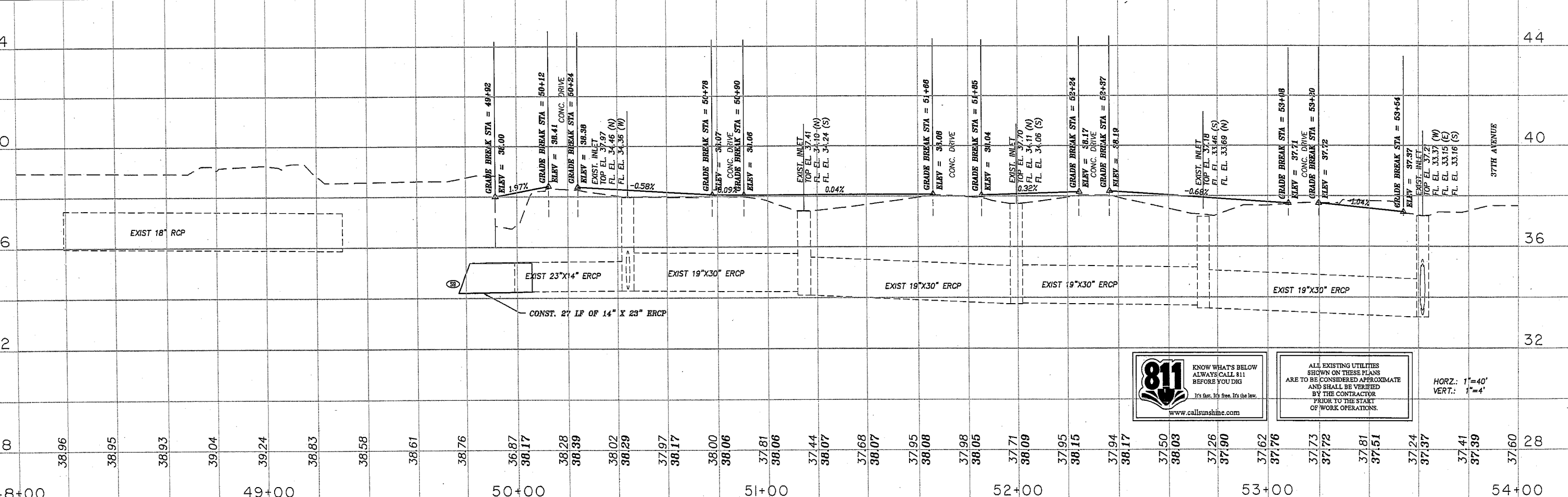
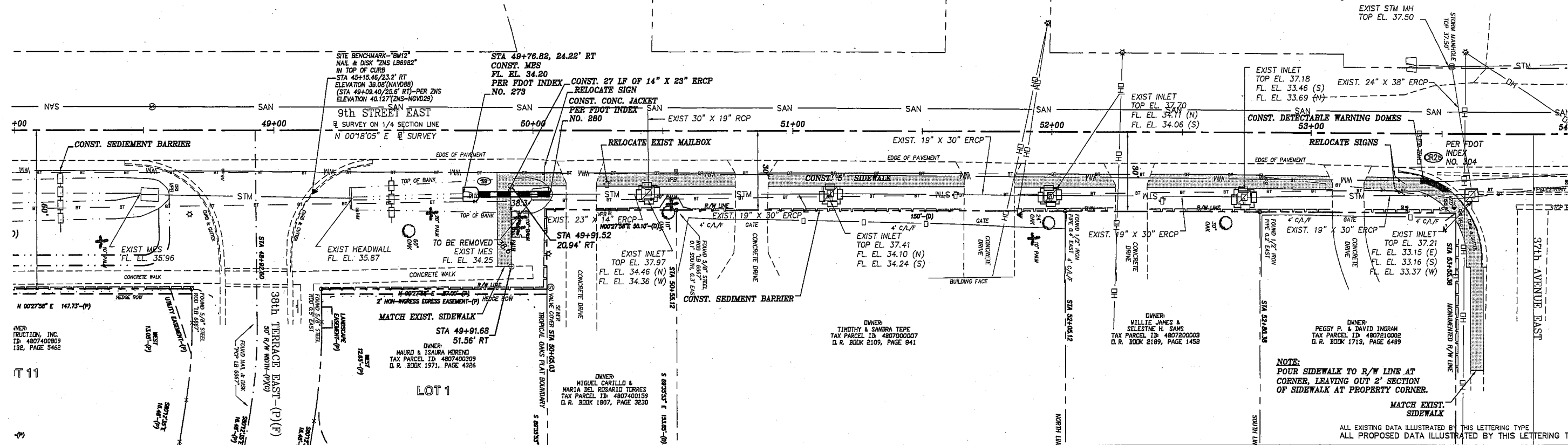
ROWLETT ELEMENTARY SCHOOL SIDEWALK PHASE IV
PLAN & PROFILE SHEET
STA. 42+00 TO STA. 48+00
MANATEE COUNTY, FLORIDA

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*FINAL SIDEWALK GRADE TO MATCH EXISTING.

NOTE: CSDG SURVEY (NAVD 88) IS 1.05' LOWER THAN THE ZNS SURVEY (NGVD 29).

1"=40'



ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE TO BE CONSIDERED APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF WORK OPERATIONS.

HORIZ.: 1"=40'
VERT.: 1"=4'

REVISIONS					
Date	By	Description	Date	By	Description

MANATEE COUNTY PUBLIC WORKS
CSDG Field Book No.:

CIVILSURV
A Tradition of Innovative Engineering

CivilSurv Design Group, Inc.
2525 Drone Field Rd.
Suite 7
Lakeland, FL 33811
Tel: 863-646-4771
Certificate of Authorization No. 28888

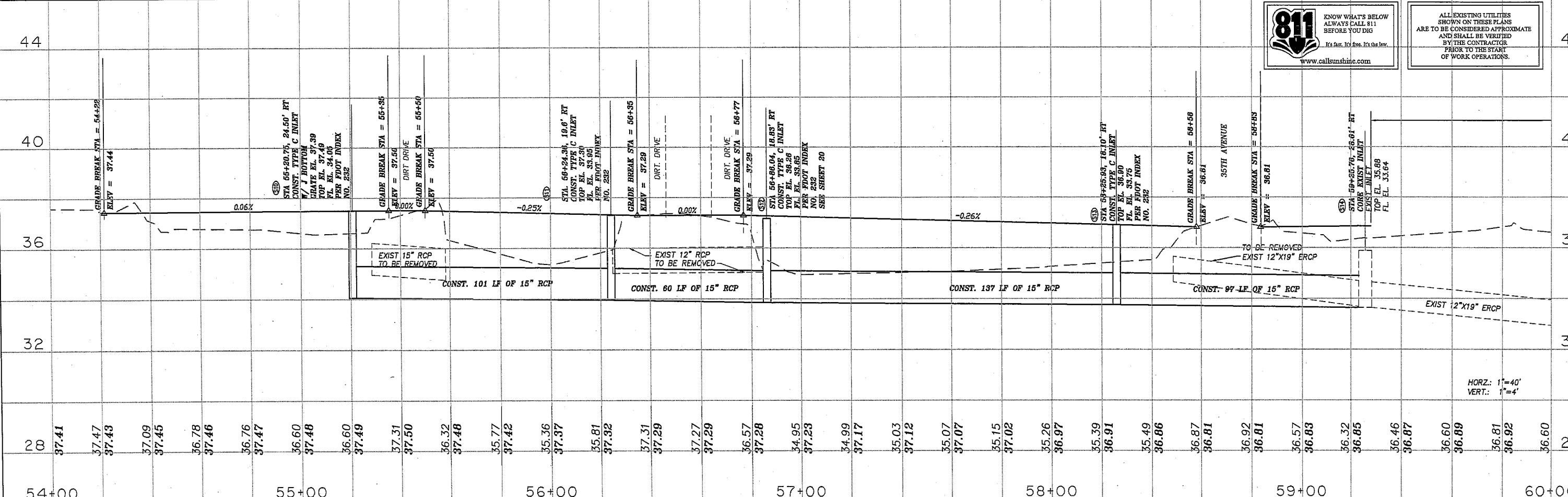
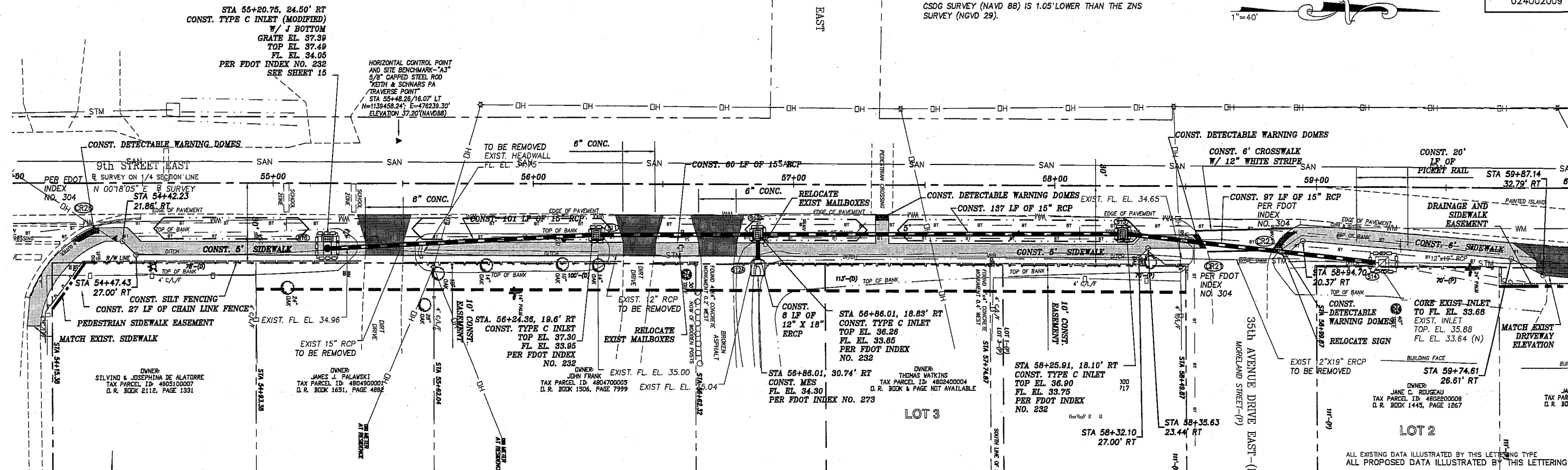
NAME	DATE
DESIGNED BY: KDL	11/09
DRAWN BY: EW	11/09
CHECKED BY: JEH	11/09

ROWLETT ELEMENTARY SCHOOL SIDEWALK PHASE IV
PLAN & PROFILE SHEET
STA. 48+00 TO STA. 54+00
MANATEE COUNTY, FLORIDA

V:\Projects\024 - Manatee County\002 Master Contract 2008-2012\009 - Rowlett Elementary School Sidewalk Phase IV - 9th St E\Transportation\Drawings\126230509P6.dwg, 6, 4/11/2011 11:01:25 AM

*FINAL SIDEWALK GRADE TO MATCH EXISTING.

NOTE:
CSDG SURVEY (NAVD 88) IS 1.05' LOWER THAN THE ZNS SURVEY (NGVD 29).



ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE TO BE CONSIDERED APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF WORK OPERATIONS.

Date	By	Description	Date	By	Description

MANATEE COUNTY PUBLIC WORKS
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CivilSurvey Design Group, Inc.
2925 Drone Field Rd.
Suite 7
Lakeland, FL 33811
Tel: 863-646-4771
Certificate of Authorization No. 28988

NAME	DATE
DESIGNED BY KDL	11/09
DRAWN BY EW	11/09
CHECKED BY JEH	11/09

JOHN E. HOWLE, P.E.
FLA. REG. NO. 27584
DATE:

ROWLETT ELEMENTARY SCHOOL SIDEWALK PHASE IV
PLAN & PROFILE SHEET
STA. 54+00 TO STA. 60+00
MANATEE COUNTY, FLORIDA

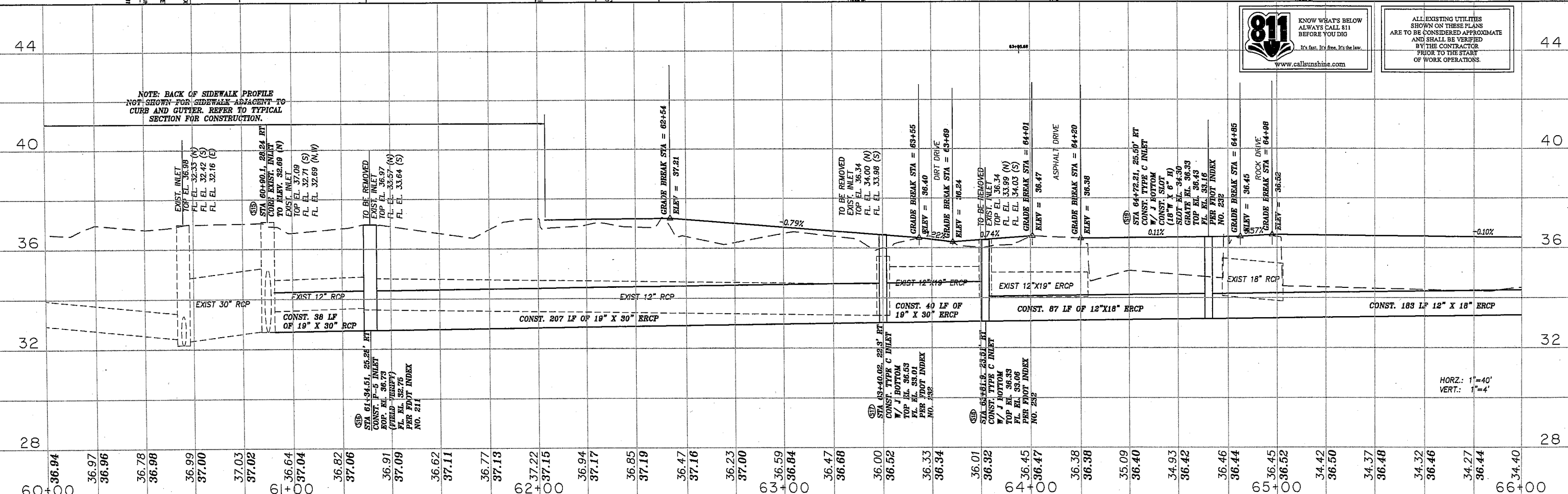
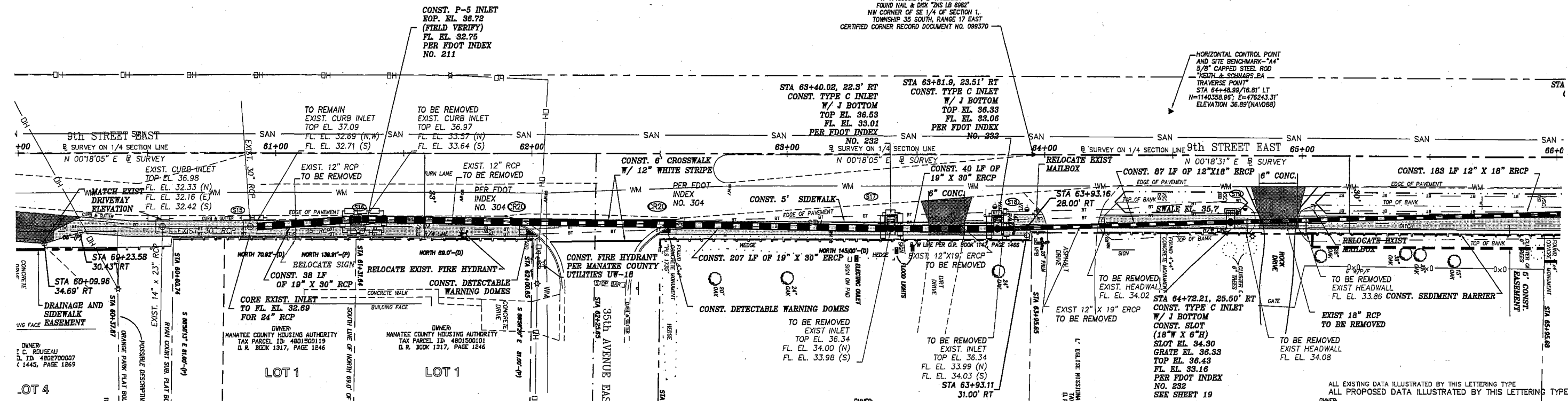
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*FINAL SIDEWALK GRADE TO MATCH EXISTING.

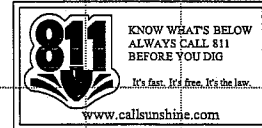
NOTE: CSDG SURVEY (NAVD 88) IS 1.05' LOWER THAN THE ZNS SURVEY (NGVD 29).

SITE BENCHMARK "BM13" NAIL & DISK "ZNS LB982" IN TOP OF CURB STA 62+01.41/74.2' LT ELEVATION 38.84 (NAVD88) (STA 62+01.50/74.3' LT) PER ZNS ELEVATION 40.127 (ZNS-NGVD29)

1" = 40'



NOTE: BACK OF SIDEWALK PROFILE NOT SHOWN FOR SIDEWALK ADJACENT TO CURB AND GUTTER. REFER TO TYPICAL SECTION FOR CONSTRUCTION.



ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE TO BE CONSIDERED APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF WORK OPERATIONS.

HORIZ.: 1"=40'
VERT.: 1"=4'

REVISIONS					
Date	By	Description	Date	By	Description

MANATEE COUNTY PUBLIC WORKS
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CivilSurv Design Group, Inc.
2525 Drone Field Rd.
Suite 7
Lakeland, FL 33811
Tel: 863-848-4771
Certificate of Authorization No. 28865

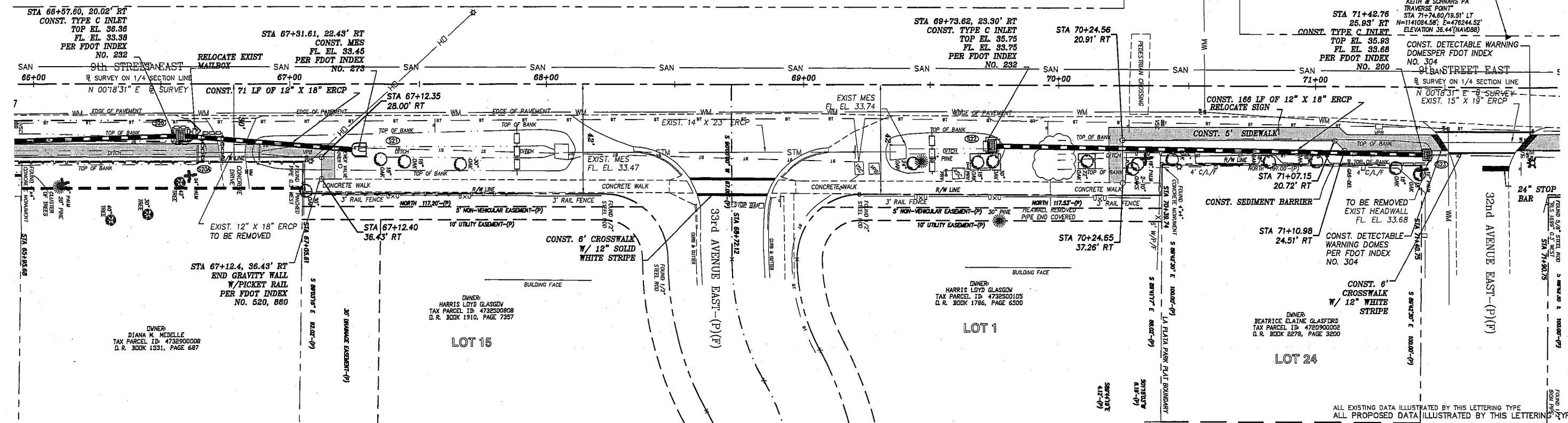
NAME	DATE
DESIGNED BY: KDL	11/09
DRAWN BY: EW	11/09
CHECKED BY: JEH	11/09

JOHN E. HOWLE, P.E.
FLA. REG. NO. 27584
DATE:

ROWLETT ELEMENTARY SCHOOL SIDEWALK PHASE IV
PLAN & PROFILE SHEET
STA. 60+00 TO STA. 66+00
MANATEE COUNTY, FLORIDA

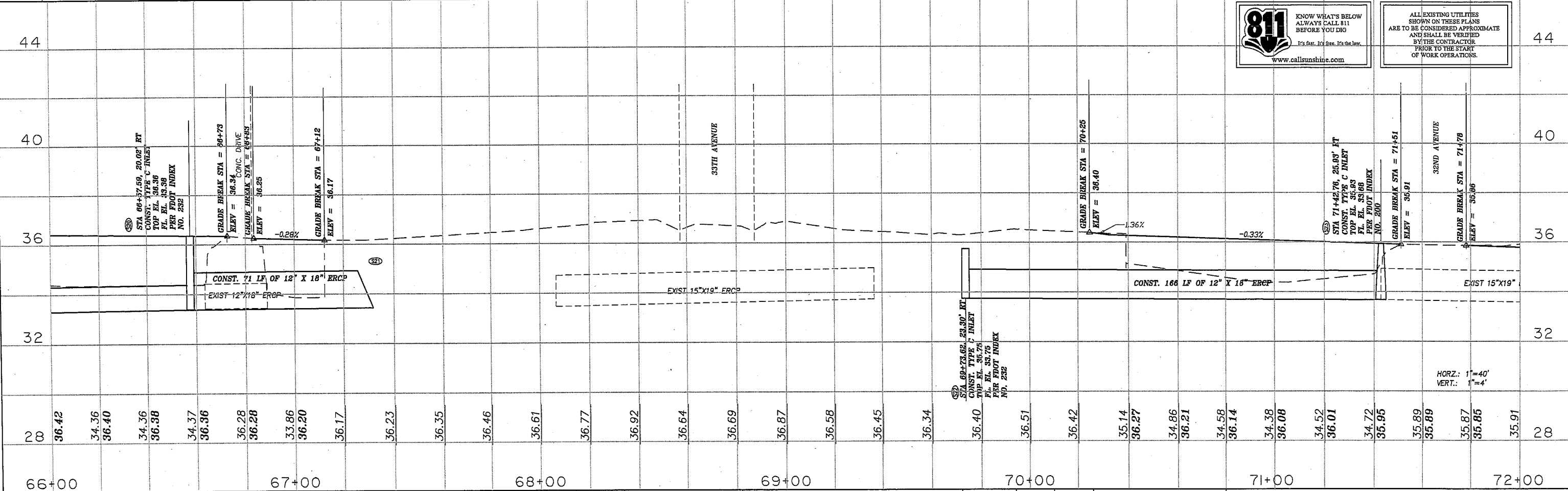
V:\Projects\024 - Manatee County\002 Master Contract 2008-2012\009 - Rowlett Elementary School Sidewalk Ph IV - 9th St E\Transportation\Drawings\178709PWF.dwg, 8/11/2011 2:34:01 PM

NOTE:
 CSDG SURVEY (NAVD 88) IS 1.05' LOWER THAN THE ZNS
 SURVEY (NGVD 29).
 *FINAL SIDEWALK GRADE TO MATCH EXISTING.



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REVISIONS					
Date	By	Description	Date	By	Description

MANATEE COUNTY
 PUBLIC WORKS



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 Suite 7
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 Certificate of Authorization No. 26988

NAME	DATE
DESIGNED BY KDL	11/09
DRAWN BY EW	11/09
CHECKED BY JEH	11/09

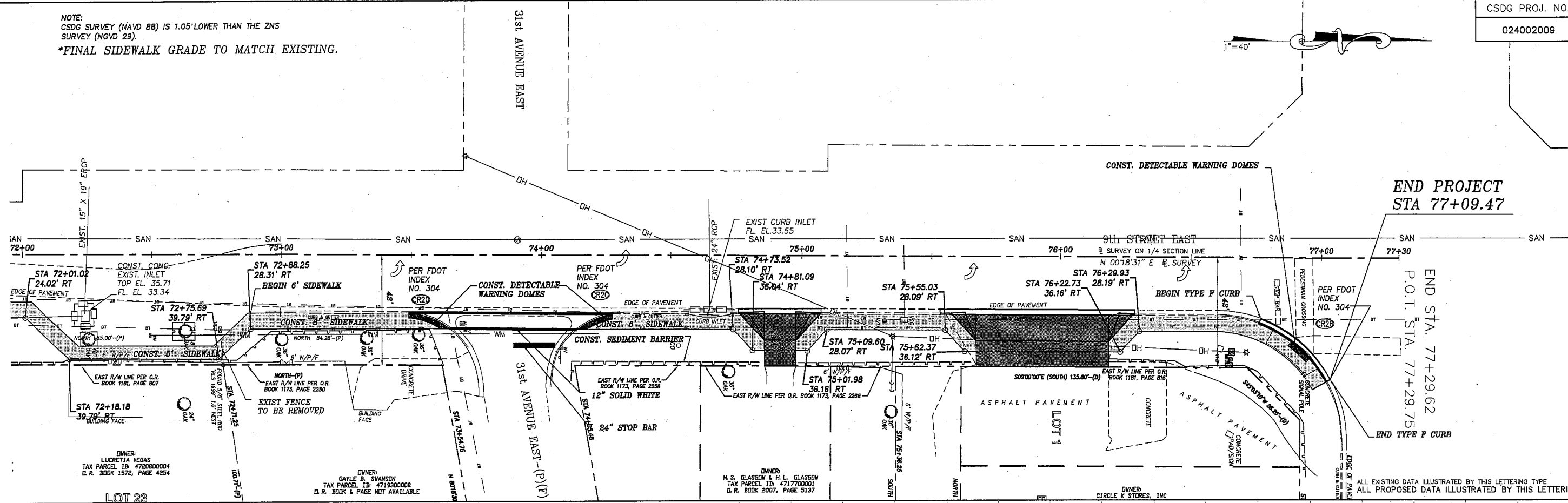
JOHN E. HOWLE, P.E.
 FLA. REG. NO. 27584

ROWLETT ELEMENTARY SCHOOL SIDEWALK PHASE IV
PLAN & PROFILE SHEET
 STA. 66+00 TO STA. 72+00
 MANATEE COUNTY, FLORIDA

V:\Projects\024 - Manatee County\002 Master Contract 2008-2012\009 - Rowlett Elementary School Sidewalk Phs IV - 9th St E\Transportation\Drawings\1782059P.dwg, 9/14/2011, 10:37:03 AM

NOTE:
CSDG SURVEY (NAVD 88) IS 1.05' LOWER THAN THE ZNS SURVEY (NGVD 29).
*FINAL SIDEWALK GRADE TO MATCH EXISTING.

1"=40'



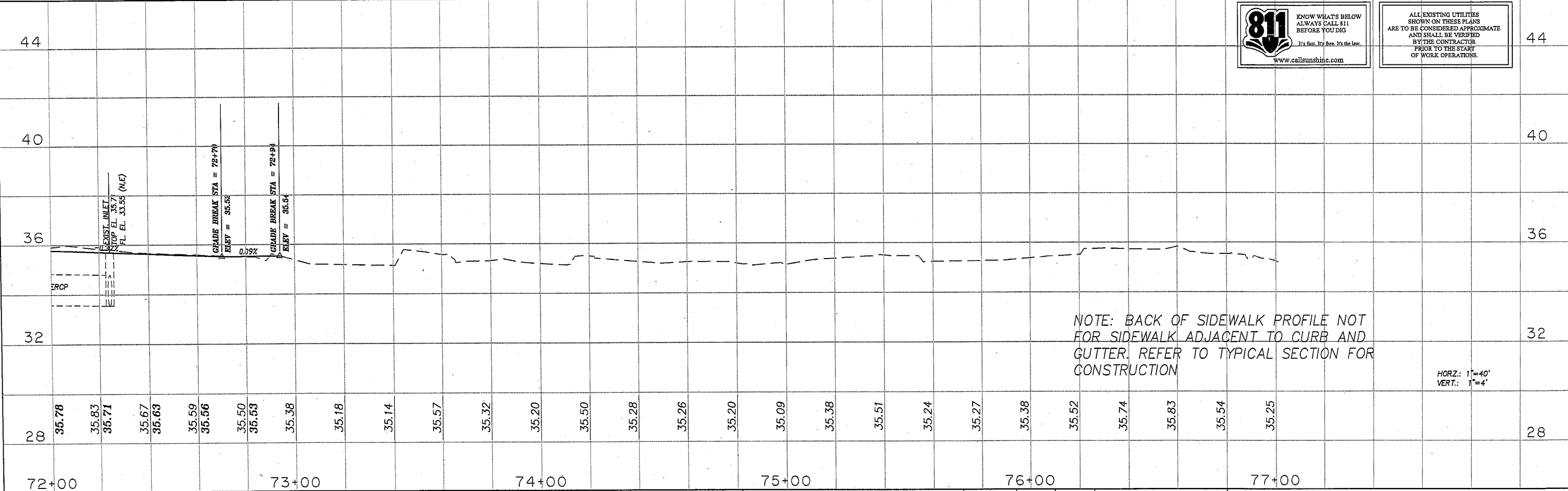
END PROJECT
STA 77+09.47

END STA. 77+29.62
P.O.T. STA. 77+29.75
END TYPE F CURB

ALL EXISTING DATA ILLUSTRATED BY THIS LETTERING TYPE
ALL PROPOSED DATA ILLUSTRATED BY THIS LETTERING TYPE



ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE TO BE CONSIDERED APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF WORK OPERATIONS.



NOTE: BACK OF SIDEWALK PROFILE NOT FOR SIDEWALK ADJACENT TO CURB AND GUTTER. REFER TO TYPICAL SECTION FOR CONSTRUCTION

HORZ.: 1"=40'
VERT.: 1"=4'

REVISIONS					
Date	By	Description	Date	By	Description

MANATEE COUNTY PUBLIC WORKS

CIVILSURV
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CivilSurv Design Group, Inc.
2525 Drane Field Rd., Suite 7
Lakeland, FL 33811
Tel: 863-646-4771

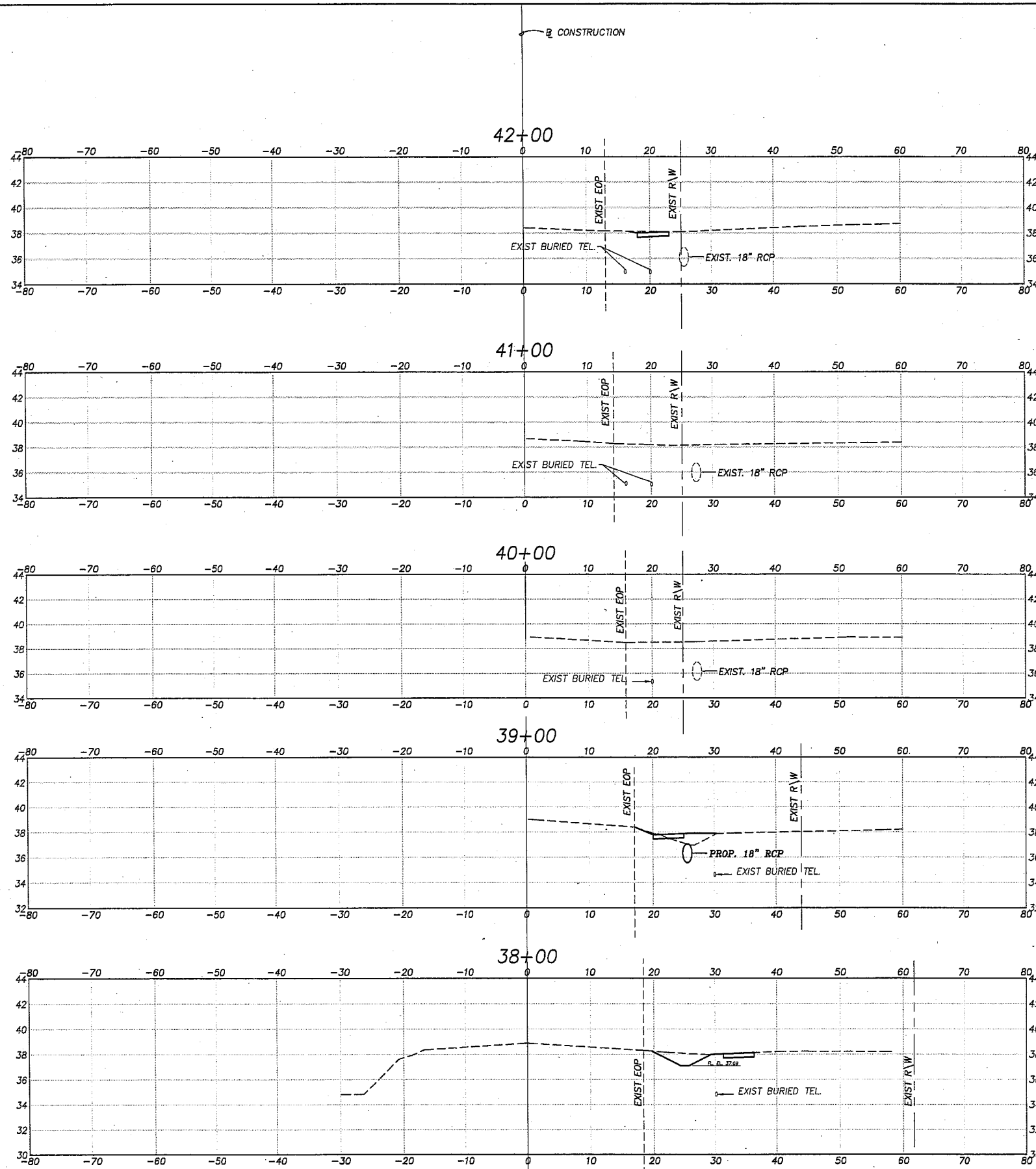
Certificate of Authorization No. 28988

NAME	DATE
DESIGNED BY: KDL	11/09
DRAWN BY: EW	11/09
CHECKED BY: JEH	11/09

DATE: _____
JOHN E. HOWLE, P.E.
FLA. REG. NO. 27584

ROWLETT ELEMENTARY SCHOOL SIDEWALK PHASE IV
PLAN & PROFILE SHEET
STA. 72+00 TO STA. 77+30
MANATEE COUNTY, FLORIDA

V:\Projects\024 - Manatee County\002 Master Contract 2008-2012\009 - Rowlett Elementary School Sidewalk Phs IV - 9th St E\Drawings\Drawings\1787309P04.dwg, 10/11/2011 10:27:15 AM



EARTHWORK			
RDWY EXC		FILL	
A	V	A	V
	4.48		0.81
1.14		0.31	
	6.7		0.57
2.48		0	
	9.11		0
2.44		0	
	4.52		16.87
0		9.11	
	2.19		17.67
1.18		0.43	

1" = 20' HORIZ.
1" = 10' VERT.

REVISIONS

Date	By	Description	Date	By	Description	Date	By	Description

MANATEE COUNTY
PUBLIC WORKS

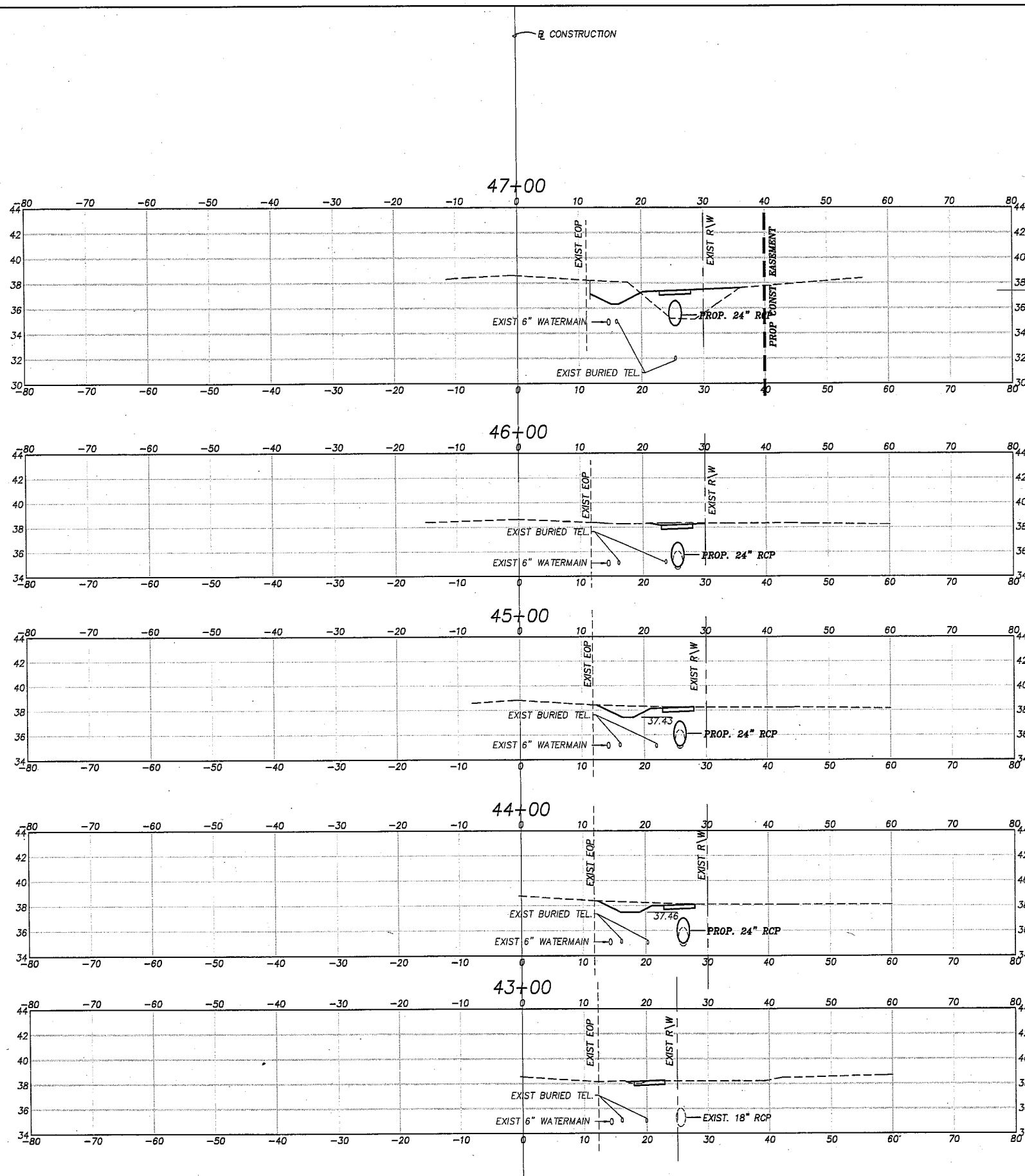


CivilSurv Design Group, Inc.
2525 Drone Field Rd.
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Lakeland, FL 33811
Tel: 863-646-4771
Certificate of
Authorization
No. 28988

NAME	DATE
DESIGNED BY KDL	11/09
DRAWN BY EW	11/09
CHECKED BY JEJ	11/09

JOHN E. HOWLE, P.E.
FLA. REG. NO. 27584
DATE: _____

ROWLETT ELEMENTARY SCHOOL SIDEWALK PHASE IV
CROSS SECTIONS
STA. 38+00 TO STA. 42+00
MANATEE COUNTY, FLORIDA



EARTHWORK			
RDWY EXC		FILL	
A	V	A	V
	0		35.24
0		19.03	
	5.57		35.24
3.01		0	
	7.33		0.76
	0.95		0.41
	3.39		1.39
	0.88		0.34
	4.00		0.87
	1.28		0.13

1" = 20' HORIZ.
1" = 10' VERT.

V:\Projects\024 - Manatee County\022 Master Contract 2008-2012\009 - Rowlett Elementary School Sidewalk Phs IV - 9th St E\Transportation\Drawings\17872935SEC.dwg, 12/4/2011 2:30:49 PM

REVISIONS								
Date	By	Description	Date	By	Description	Date	By	Description

MANATEE COUNTY
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Suite 7
Lakeland, FL 33811
Tel: 863-646-4771

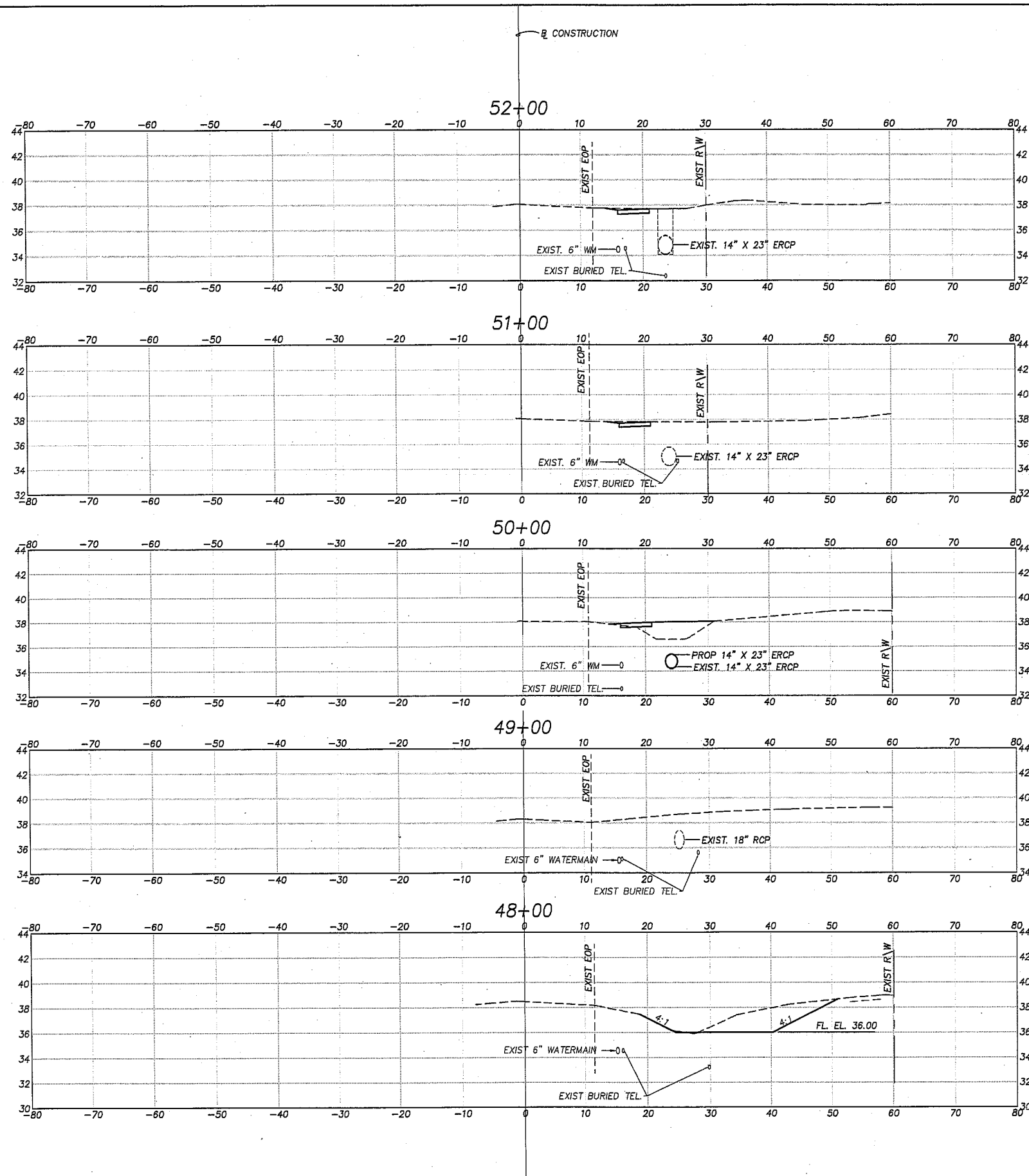
Certificate of Authorization
No. 28988

NAME	DATE
DESIGNED BY: KDL	11/09
DRAWN BY: EW	11/09
CHECKED BY: JEH	11/09

ROWLETT ELEMENTARY SCHOOL SIDEWALK PHASE IV
CROSS SECTIONS
STA. 43+00 TO STA. 47+00
MANATEE COUNTY, FLORIDA

JOHN E. HOWLE, P.E.
FLA. REG. NO. 27584

DATE:



EARTHWORK			
RDWY EXC		FILL	
A	V	A	V
	2.61		4.02
0.14		1.74	
	1.59		4.63
0.72		0.76	
	1.33		23.61
0.24		12	
0			22.2
0		0	
0			0
0		0	

END SWALE
STA 48+50

BEGIN SWALE
STA 47+40

1" = 20' HORIZ.
1" = 10' VERT.

V:\projects\024 - Manatee County\002 Master Contract 2008-2012\009 - Rowlett Elementary School Sidewalk Phase IV - 9th St E\Transportation\Drawings\1707305XSEC.dwg, 13, 4/4/2011 2:30:56 PM

REVISIONS								
Date	By	Description	Date	By	Description	Date	By	Description

MANATEE COUNTY
PUBLIC WORKS

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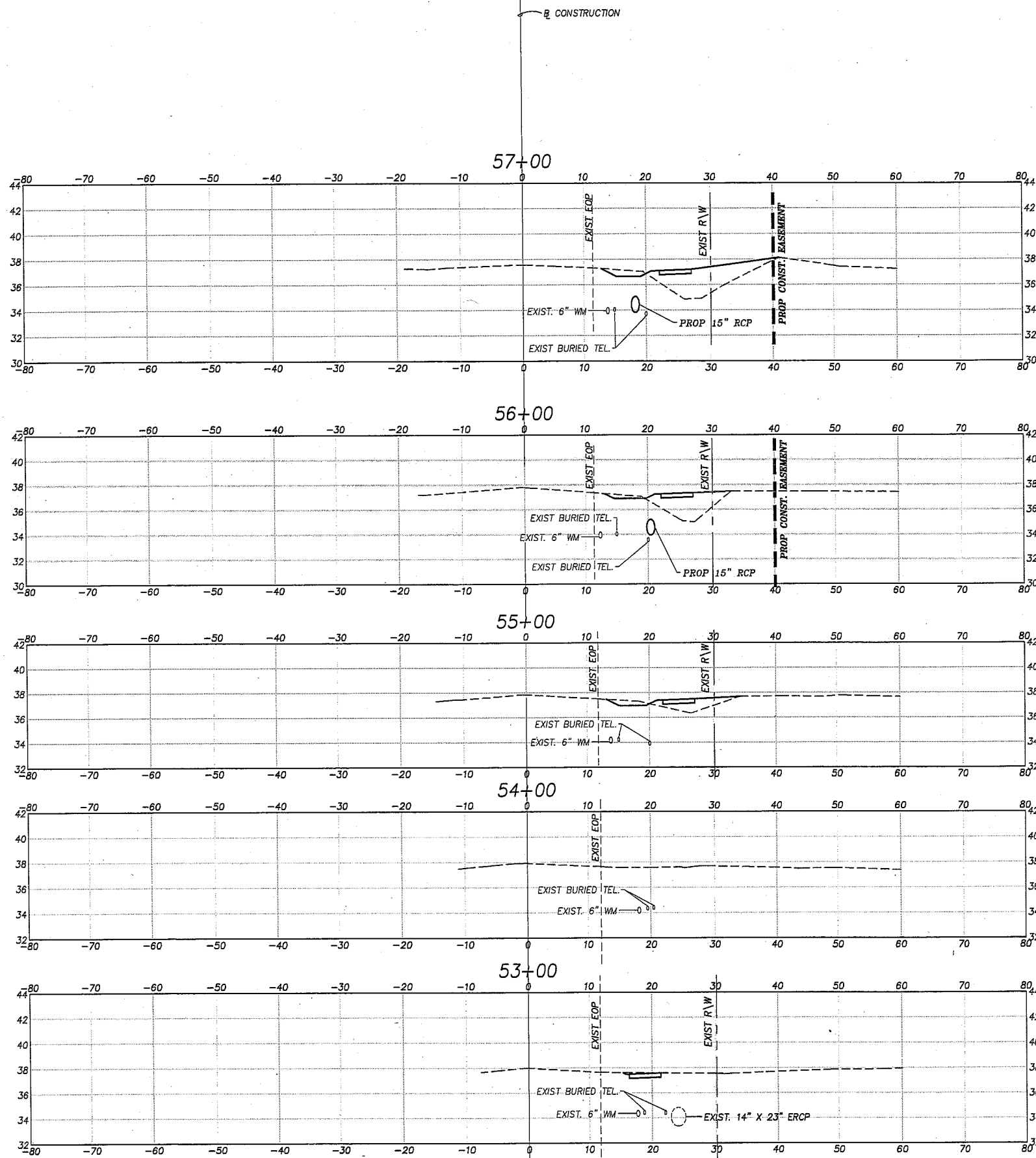
CivilSurv Design Group, Inc.
2525 Drone Field Rd.
Suite 7
Lakeland, FL 33811
Tel: 863-646-4771

Certificate of Authorization
No. 28988

NAME	DATE
DESIGNED BY: KDL	11/09
DRAWN BY: EW	11/09
CHECKED BY: JEH	11/09

JOHN E. HOWLE, P.E.
FLA. REG. NO. 27584

ROWLETT ELEMENTARY SCHOOL SIDEWALK PHASE IV
CROSS SECTIONS
STA. 48+00 TO STA. 52+00
MANATEE COUNTY, FLORIDA



EARTHWORK			
RDWY EXC		FILL	
A	V	A	V
	0		27.26
0		7.99	
	0		31.61
0		9.08	
	0		25.5
0		4.69	
	0		8.69
0		0	
	2.35		0.80
1.27		0.43	

1" = 20' HORIZ.
1" = 10' VERT.

V:\Projects\024 - Manatee County\002 Master Contract 2008-2012\009 - Rowlett Elementary School Sidewalk Phs IV - 9th St Transportation\Drawings\178720555C.dwg, 14, 4/1/2011 2:31:00 PM

REVISIONS								
Date	By	Description	Date	By	Description	Date	By	Description

MANATEE COUNTY
PUBLIC WORKS

CSDG Field Book No.:

CIVILSURV
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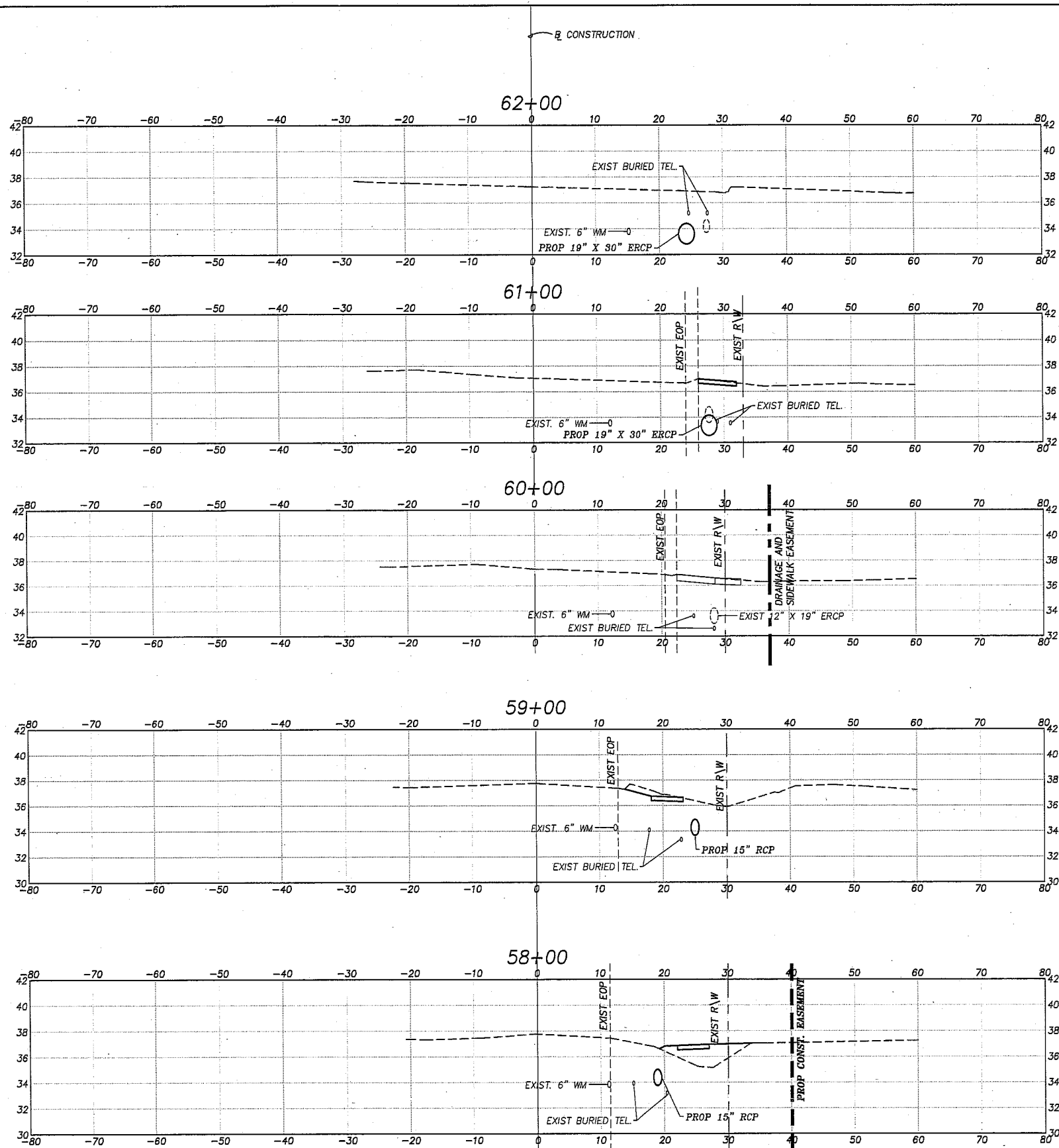
CivilSurv Design Group, Inc.
2525 Drone Field Rd.
Suite 7
Lakeland, FL 33811
Tel: 883-646-4771
Certificate of Authorization
No. 28988

NAME	DATE
DESIGNED BY KDL	11/09
DRAWN BY EW	11/09
CHECKED BY JEJ	11/09

JOHN E. HOWLE, P.E.
FLA. REG. NO. 27584

DATE: _____

ROWLETT ELEMENTARY SCHOOL SIDEWALK PHASE IV
CROSS SECTIONS
STA. 53+00 TO STA. 57+00
MANATEE COUNTY, FLORIDA



EARTHWORK			
RDWY EXC		FILL	
A	V	A	V
	1.7		0.91
0		0	
	1.2		5.31
A		A	
	2.98		9.07
0.96		2.03	
	6.8		7.06
2.71		1.78	
	5.02		15.76
0		6.73	

1" = 20' HORIZ.
1" = 10' VERT.

V:\projects\024 - Manatee County\002 Master Contract 2008-2012\009 - Rowlett Elementary School Sidewalk Plus IV - 9th St E\Transportation\Drawings\1707209\SEC.dwg, 15, 4/4/2011 2:31:08 PM

REVISIONS								
Date	By	Description	Date	By	Description	Date	By	Description

MANATEE COUNTY
PUBLIC WORKS



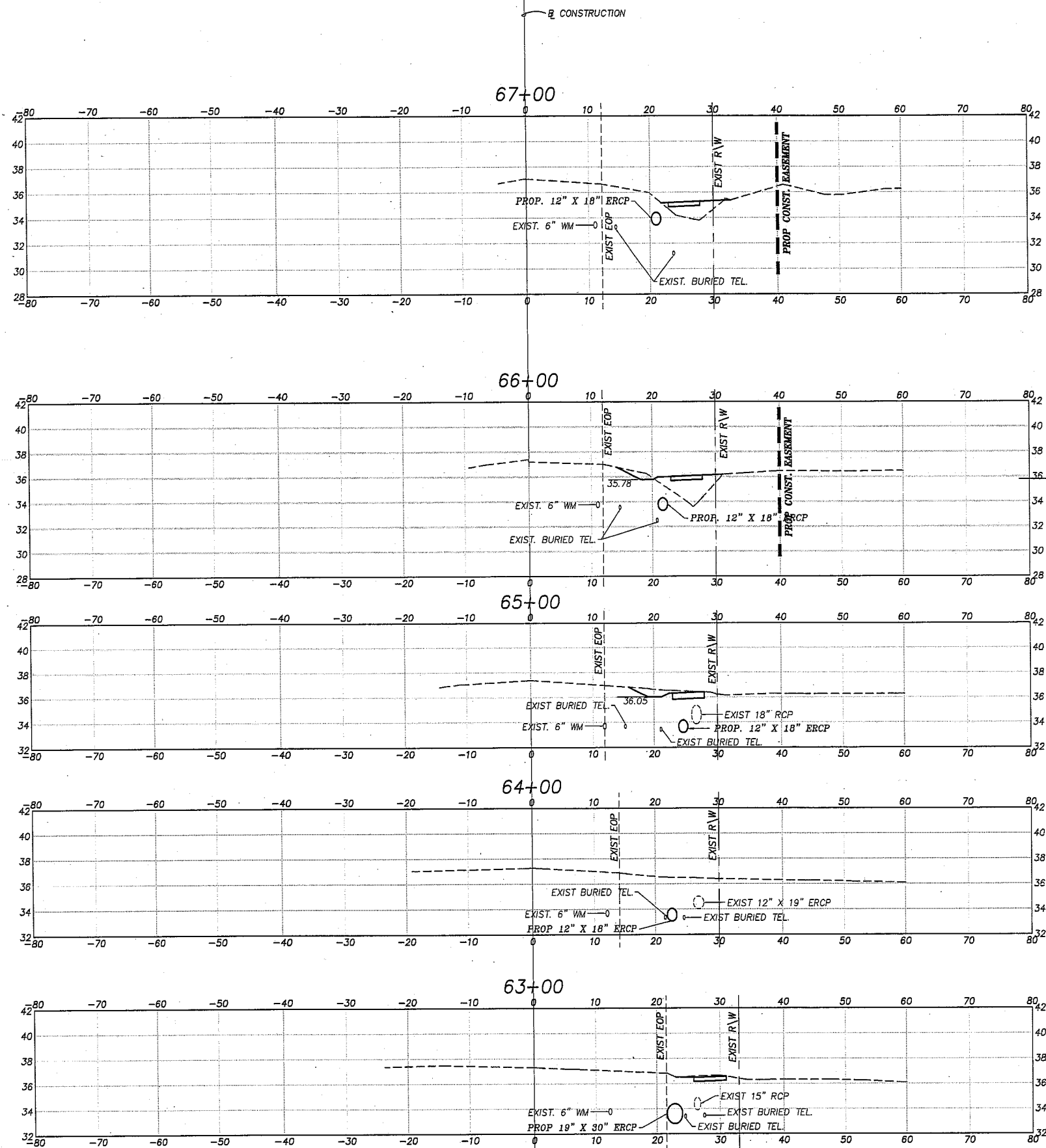
CivilSurv Design Group, Inc.
2525 Drone Field Rd.
Suite 7
Lakeland, FL 33811
Tel: 863-646-4771

DESIGNED BY	KDL	DATE	11/09
DRAWN BY	EW	DATE	11/09
CHECKED BY	JEH	DATE	11/09

JOHN E. HOWLE, P.E.
FLA. REG. NO. 27584

ROWLETT ELEMENTARY SCHOOL SIDEWALK PHASE IV
CROSS SECTIONS
STA. 58+00 TO STA. 62+00
MANATEE COUNTY, FLORIDA

CSDG Field Book No.:



EARTHWORK			
RDWY EXC		FILL	
A	V	A	V
	0		19.2
0		10.36	
	0		40.3
0		11.4	
	3.37		21.46
1.82		0.19	
	3.37		0.35
0		0	
	1.7		0.91
0.92		0.49	

1" = 20' HORIZ.
1" = 10' VERT.

REVISIONS								
Date	By	Description	Date	By	Description	Date	By	Description

MANATEE COUNTY
PUBLIC WORKS

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Suite 7
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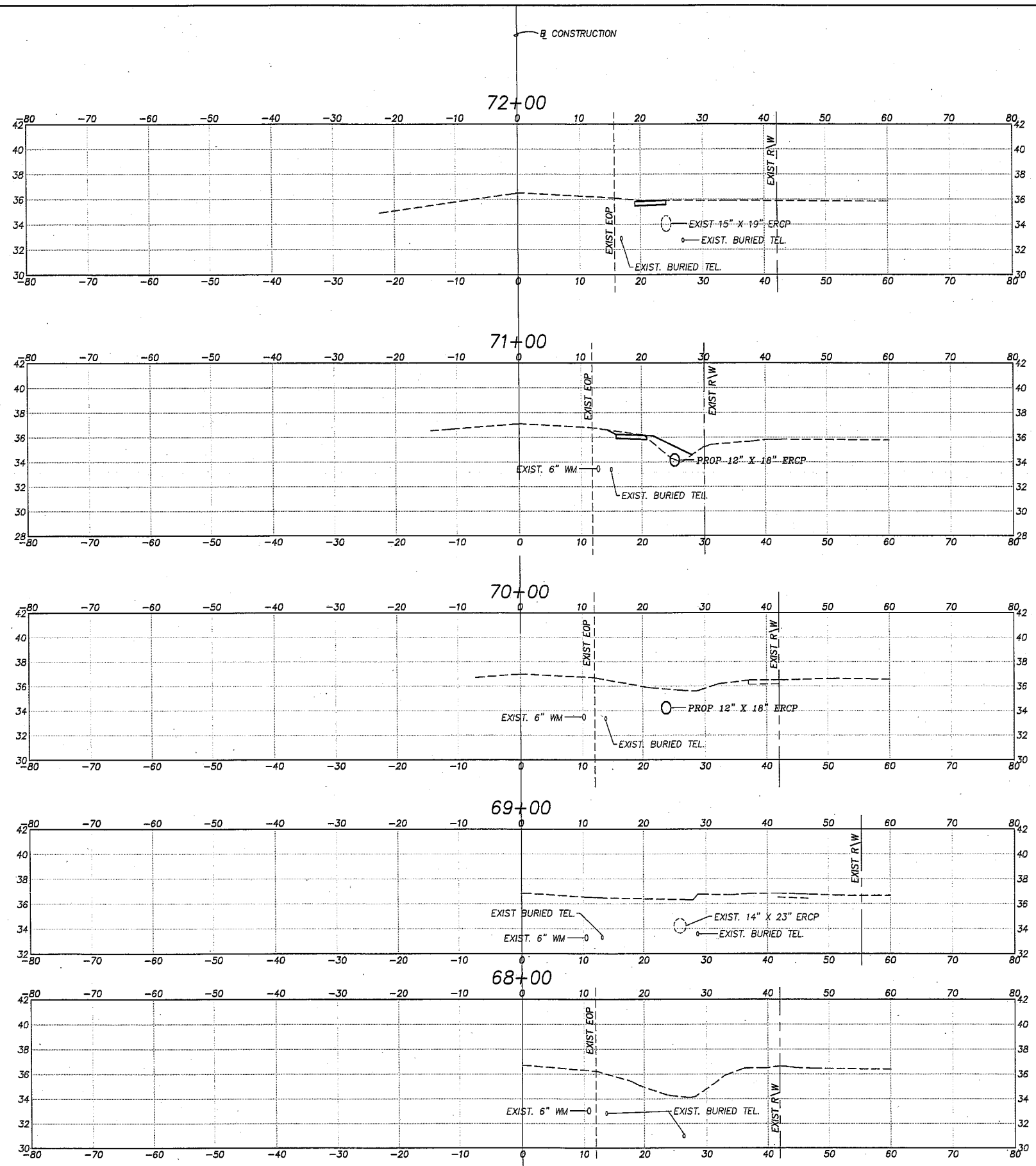
NAME	DATE
DESIGNED BY: KDL	11/09
DRAWN BY: EW	11/09
CHECKED BY: JEH	11/09

JOHN E. HOWLE, P.E.
FLA. REG. NO. 27584

DATE: _____

ROWLETT ELEMENTARY SCHOOL SIDEWALK PHASE IV
CROSS SECTIONS
STA. 63+00 TO STA. 67+00
MANATEE COUNTY, FLORIDA

V:\Projects\024 - Manatee County\002 Master Contract 2008-2012\009 - Rowlett Elementary School Sidewalk Phase IV - 9th St ETT\transp\Drawings\17872030SEC.dwg, 16, 4/4/2011 2:31:15 PM



EARTHWORK			
RDWY EXC		FILL	
A	V	A	V
	2.72		8.31
1.06		0.53	
	5.85		18.35
2.1		9.38	
	5.85		18.35
1.06		0.53	
	1.96		0.98
0		0	
0		0	

1" = 20' HORIZ.
1" = 10' VERT.

V:\projects\024 - Manatee County\02 Master Contract 2008-2012\1009 - Rowlett Elementary School Sidewalk Pns IV - 9th St ET\Transportation\Drawings\172035SC.dwg, 17/4/2011 2:31:23 PM

REVISIONS								
Date	By	Description	Date	By	Description	Date	By	Description

MANATEE COUNTY
PUBLIC WORKS

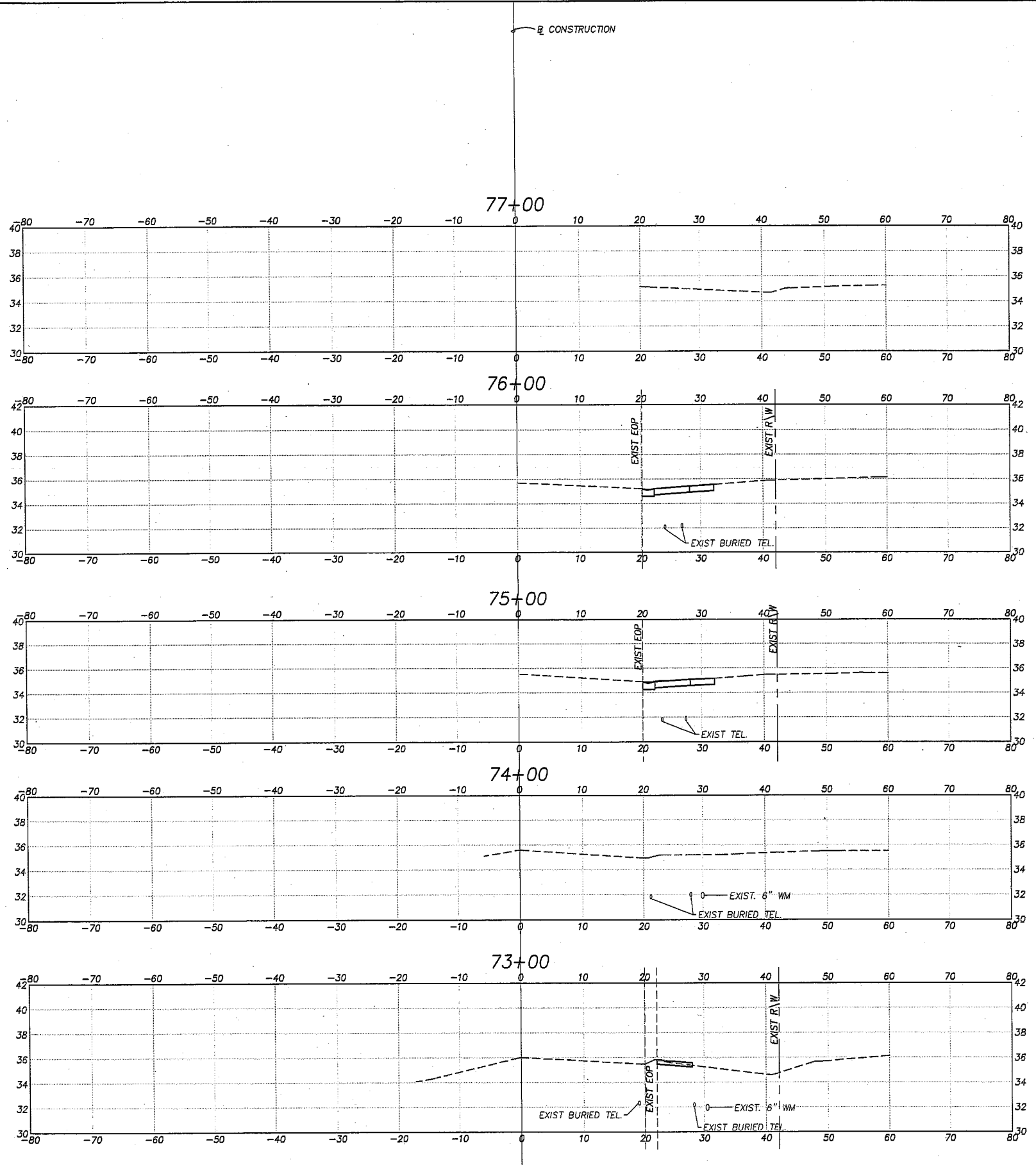
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2525 Drens Field Rd.
Suite 7
Lakeland, FL 33811
Tel: 863-646-4771
Certificate of Authorization
No. 2898B

NAME	DATE
DESIGNED BY: KDL	11/09
DRAWN BY: EW	11/09
CHECKED BY: JEH	11/09

JOHN E. HOWLE, P.E.
FLA. REG. NO. 27584

ROWLETT ELEMENTARY SCHOOL SIDEWALK PHASE IV
CROSS SECTIONS
STA. 68+00 TO STA. 72+00
MANATEE COUNTY, FLORIDA



EARTHWORK			
RDWY EXC		FILL	
A	V	A	V
0	0	0	0
3.97	0.12	14.7	0.59
0.2	3.97	7.35	0.37
0	0	0.76	7.33
0.41	3.96		

1" = 20' HORIZ.
1" = 10' VERT.

REVISIONS								
Date	By	Description	Date	By	Description	Date	By	Description

MANATEE COUNTY
PUBLIC WORKS

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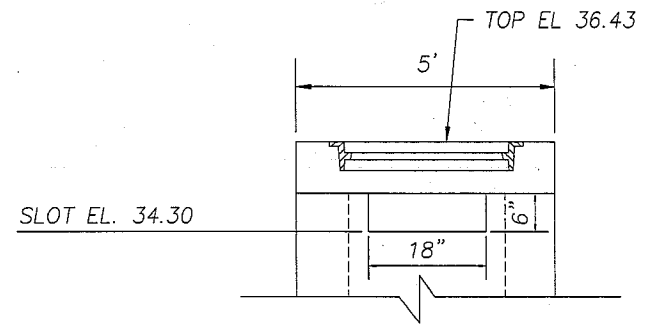
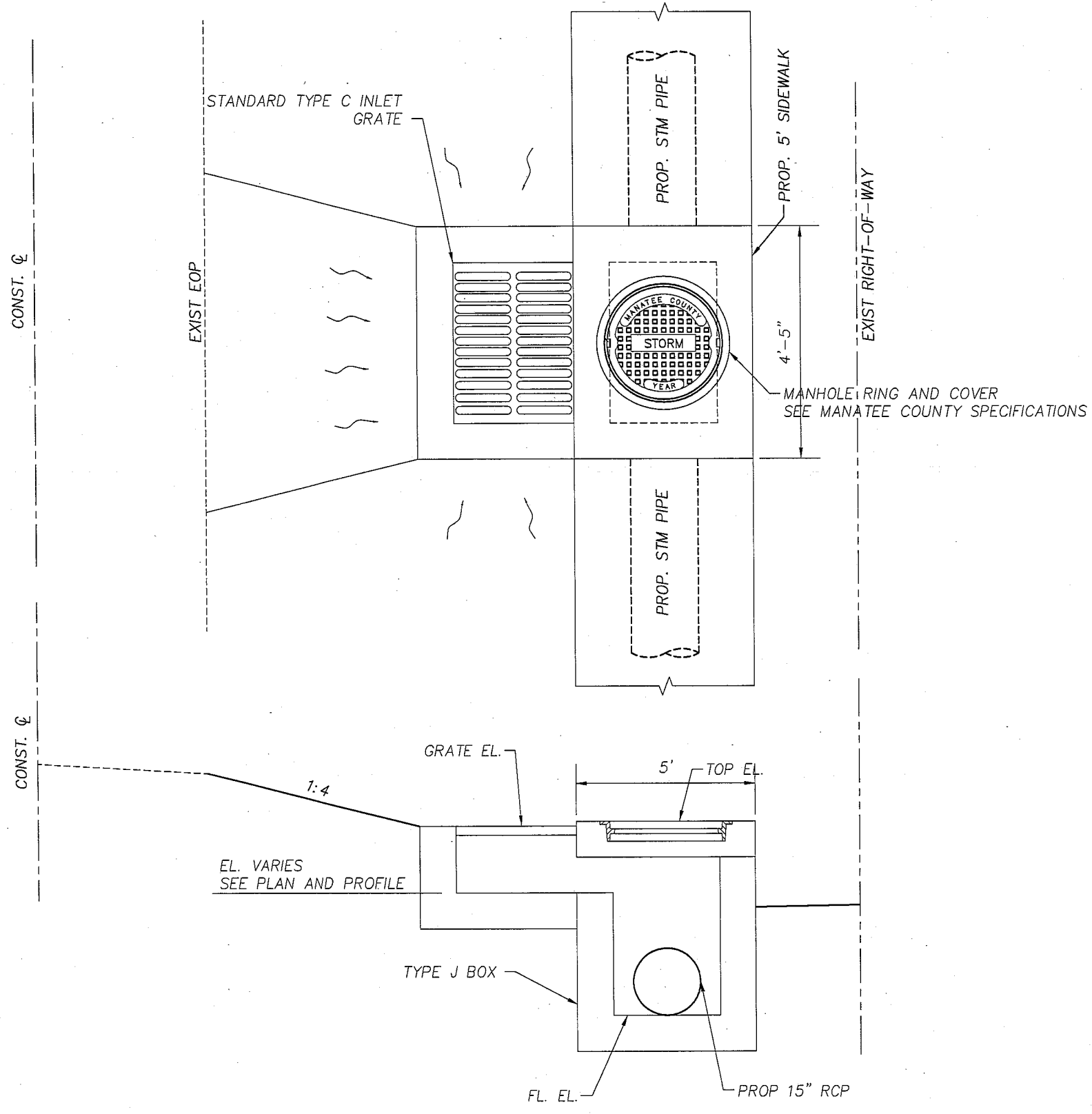
CivilSurv Design Group, Inc.
2525 Drone Field Rd.
Suite 7
Lakeland, FL 33811
Tel: 863-646-4771

Certificate of Authorization
No. 28988

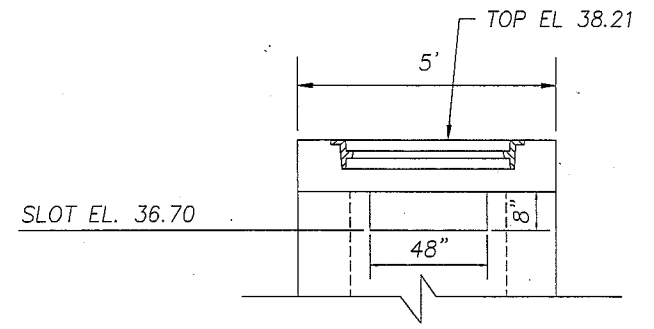
NAME	DATE
DESIGNED BY: KDL	11/09
DRAWN BY: EW	11/09
CHECKED BY: JEH	11/09

ROWLETT ELEMENTARY SCHOOL SIDEWALK PHASE IV
CROSS SECTIONS
STA. 73+00 TO STA. 77+00
MANATEE COUNTY, FLORIDA

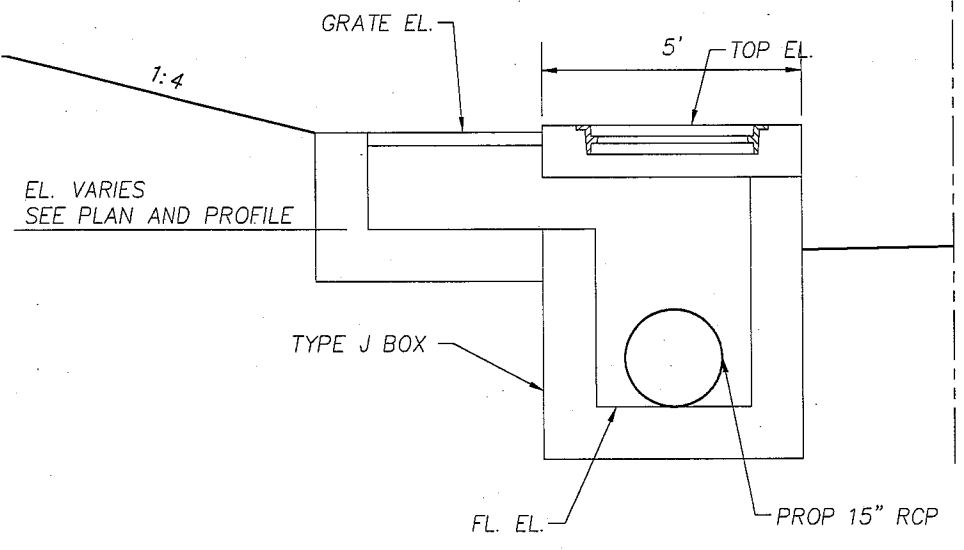
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WEST SLOT CUT-OUT FOR S-19
BACK OF SIDEWALK PROFILE
 N.T.S.



WEST SLOT CUT-OUT FOR S-4
BACK OF SIDEWALK PROFILE
 N.T.S.



MODIFIED TYPE C INLET W/ J BOTTOM
 N.T.S.

\A\Projects\024 - Manatee County\002 Master Contract 2008-2012\009 - Rowlett Elementary School Sidewalk Phs IV - 5th St E\Transportation\Drawings\17873090R\MANAGE\GENERAL\5.dwg, 19/4/2011 2:27:02 PM

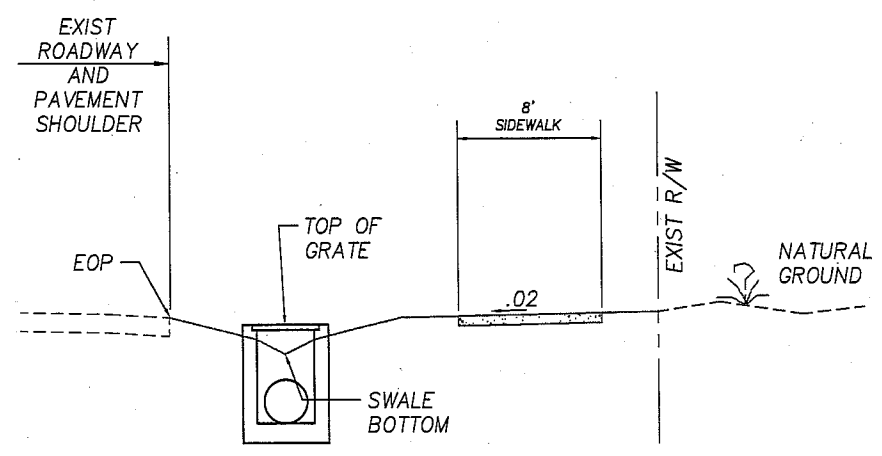
REVISIONS								
Date	By	Description	Date	By	Description	Date	By	Description

MANATEE COUNTY
 PUBLIC WORKS



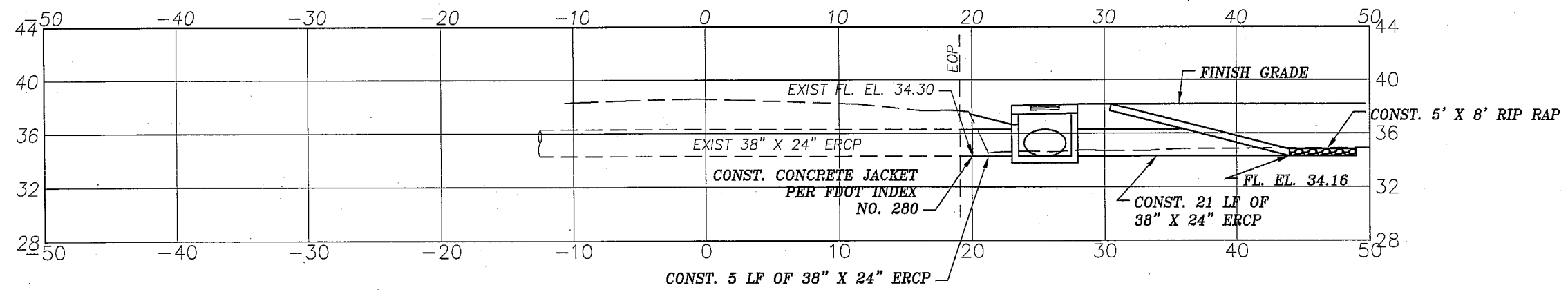
	NAME	DATE
DESIGNED BY	JEH	1/10
DRAWN BY	EW	1/10
CHECKED BY	JEH	1/10

ROWLETT ELEMENTARY SCHOOL SIDEWALK PHASE IV
DRAINAGE DETAILS
 MANATEE COUNTY, FLORIDA



STRUCTURE ID	EOP ELEVATION	GRATE ELEVATION	SWALE BOTTOM ELEVATION
S1	38.86	38.29	37.42
S2	39.02	38.57	37.60
S4	38.65	38.11	37.75
S7	38.62	38.19	37.70
S10	37.91	37.39	36.90
S11	37.82	37.30	36.85
S12	36.73	36.26	35.70
S13	37.32	36.90	36.45
S23	36.41	35.93	35.65

TYPICAL DRAINAGE STRUCTURE
N.T.S.



(S7) STA 47+24.80, 15.81' RT
 CONST. STM MH
 SLOT EL. 36.68 (E)
 TOP EL. 38.19
 FL. EL. 34.16
 PER FDOT INDEX
 NO. 200,201

SCALE: VERT: 1"=10'
 HORZ: 1"=10'

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Date	By	Description	Date	By	Description	Date	By	Description	

MANATEE COUNTY
 PUBLIC WORKS
 CSDG Field Book No.:

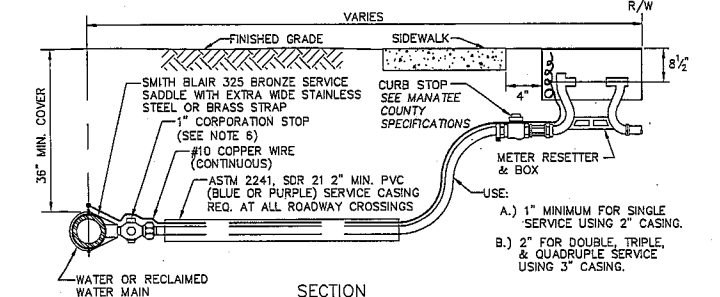
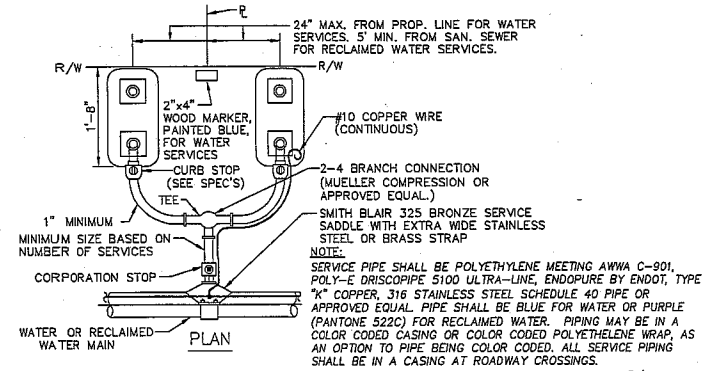
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 A Tradition of Innovative Engineering

CivilSurv Design Group, Inc.
 2525 Drone Field Rd.
 Suite 7
 Lakeland, FL 33811
 Tel: 863-646-4771
 Certificate of Authorization
 No. 28588

NAME	DATE
DESIGNED BY JEH	1/10
DRAWN BY EW	1/10
CHECKED BY JEH	1/10

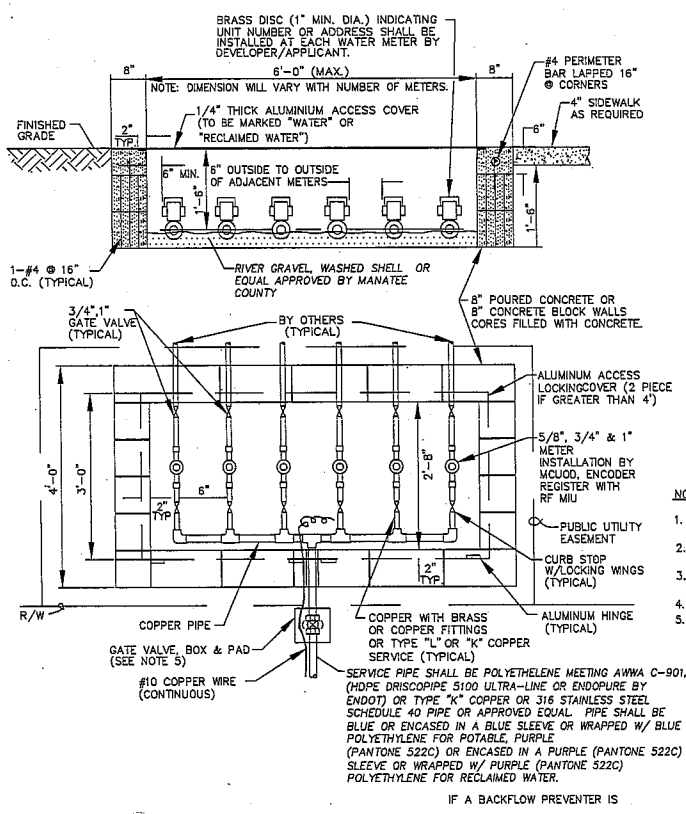
DATE: _____

ROWLETT ELEMENTARY SCHOOL SIDEWALK PHASE IV
DRAINAGE DETAILS
 MANATEE COUNTY, FLORIDA



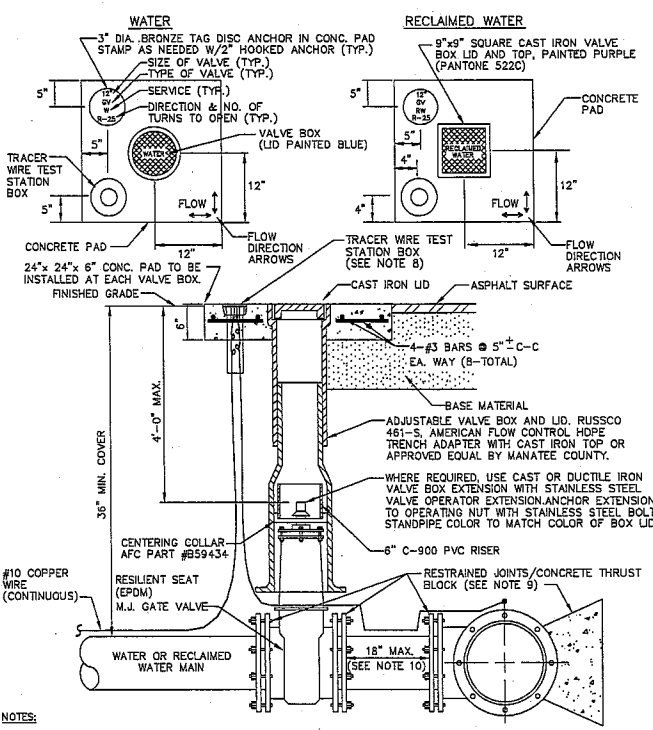
- NOTES:**
1. ALL SERVICE TAPS TO BE LOCATED IN THE FIELD. TAPS SHALL BE NO CLOSER THAN 2'-0" STAGGERED INTERVALS OR WITHIN 2'-0" FROM BELL OR SPIGOT ENDS.
 2. METER BOXES & RESETTERS ARE TO BE INSTALLED BY THE INFRASTRUCTURE CONTRACTOR AND SHALL NOT BE SET IN DRAINAGE SWALES, SIDEWALKS OR DRIVEWAYS.
 3. "WM" OR "RWM" TO BE IMPRESSED INTO THE NEWLY POURED CONCRETE CURB ALONG WITH DISTANCE IN FEET TO THE METER. IF NO CURB, INSTALL A BLUE DISC WITH "WM" OR A PURPLE DISC WITH "RWM" AND A 1/8" x 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT WITH THE DISTANCE (IN FEET) FROM THE DISC TO THE METER.
 4. #10 COPPER WIRE SHALL BE INSTALLED WITH WATER AND RECLAIMED MAIN AND ALL SERVICES. SERVICE WIRE SHALL BE CONNECTED TO THE TRACER WIRE ALONG THE MAIN.
 5. WATER AND RECLAIMED WATER SERVICE LINES TO BE 5' MINIMUM FROM SEWER SERVICE PIPES.
 6. FOR 2" SERVICES REPLACE CORPORATION STOP WITH 2" RESILIENT WEDGE GATE VALVE W/BOX, LID & TAG. SEE STANDARD DETAIL UW-2. M.J. GATE VALVE IN DETAIL UW-2 SHALL BE SUBSTITUTED WITH THREADED FIP GATE VALVE AND BRASS NIPPLE. CENTERING COLLAR NOT REQUIRED ON 2" GATE VALVES.
 7. WHEN THE DISTANCE BETWEEN THE EDGE OF THE SIDEWALK AND THE R/W IS ONE FOOT (CUL-DE-SAC W/ MEDIAN) A 10 FOOT PUBLIC UTILITY EASEMENT SHALL BE LOCATED IN THE FRONT OF THE LOTS, ADJACENT TO THE R/W.

TYPICAL SERVICE CONNECTION (UW-19)
N.T.S.



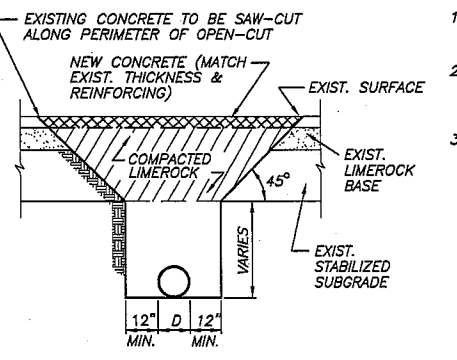
- NOTES:**
1. BACKFLOW PREVENTERS MAY BE REQUIRED DOWN STREAM OF METERS. REQUIRED, THE BASE SLAB SHALL BE INSTALLED NO GREATER THAN 6" FROM THE METER VAULT.
 2. ALUMINUM ACCESS COVER SHALL HAVE RECESSED LIFTING HANDLES AND BE CAPABLE OF SUPPORTING A LOAD OF 75 P.S.F.
 3. PUBLIC UTILITY EASEMENT REQUIRED FOR METER READING AND MAINTENANCE. METER VAULT TO BE MAINTAINED BY WATER CUSTOMER.
 4. COVER LIFTING FORCE TO BE NO MORE THAN 50 POUNDS.
 5. SEE GATE VALVE, BOX AND LID STANDARD DETAIL UW-2. M.J. GATE VALVE SHALL BE SUBSTITUTED WITH THREADED FIP GV. CENTERING COLLAR NOT REQUIRED ON 2" GATE VALVES.

MULTIPLE METER VAULT (UW-18)
N.T.S.



- NOTES:**
1. "WM" OR "RWM" TO BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB, ALONG WITH DISTANCE IN FEET TO THE VALVE. IF NO CURB, INSTALL A BLUE DISC WITH "WM" OR PURPLE DISC WITH "RWM" AND A 1/8" x 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT WITH THE FOOTAGE FROM THE DISC TO THE VALVE.
 2. ALL EXISTING AND PROPOSED VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADES AS DETERMINED IN THE FIELD.
 3. WATER VALVES SHALL NOT BE PLACED IN HANDICAPPED RAMPS.
 4. PRECAST CONCRETE PADS & THRUST BLOCKS SHALL NOT BE USED.
 5. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1/2".
 6. FOR VALVES 16" AND LARGER, USE BUTTERFLY VALVES.
 7. "FLOW" AND "FLOW DIRECTION" ARROWS TO BE IMPRESSED INTO NEWLY POURED CONCRETE PAD.
 8. TRACER WIRE TEST STATION BOX IS NOT REQUIRED IN VALVE BOX PAD IF THE GATE VALVE IS LOCATED WITHIN 200 FEET OF A WATER SERVICE, BLOW-OFF, BACKFLOW PREVENTER OR FIRE HYDRANT THAT HAS A TRACER WIRE BOX. A TRACER WIRE BOX IS REQUIRED IN THE CONCRETE PAD AT ALL GATE VALVES AT CONNECTIONS TO EXISTING MAINS.
 9. CONCRETE THRUST BLOCK IS ALSO REQUIRED UNLESS RESTRAINED JOINT LENGTH IS TREATED AS A PLUG SHOWN IN STANDARD DETAIL UW-8.
 10. SHOULD THERE BE AN OBSTACLE/CONFLICT IN INSTALLING THE VALVE, THE ENGINEER OF RECORD MAY PROPOSE A REVERSE TAP, ETC. AND SEPARATE APPROVAL SHALL BE OBTAINED FROM MANATEE COUNTY.

GATE VALVE, BOX, LID AND TAG (UW-2)
N.T.S.



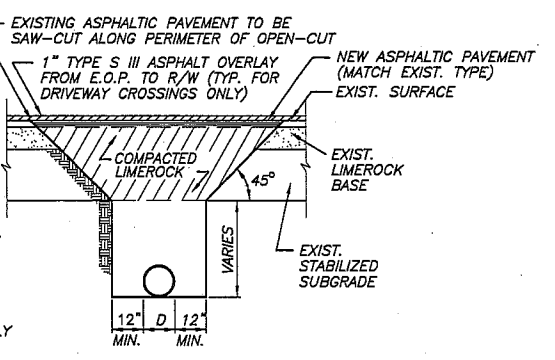
CONCRETE PAVEMENT REPLACEMENT

- BACKFILL MATERIALS**
1. BACKFILL TO WITHIN 12" OF BOTTOM OF EXISTING BASE WITH LOCAL SUBGRADE MATERIAL.
 2. BACKFILL TO BOTTOM OF PROPOSED REPLACEMENT PAVEMENT COURSE WITH COMPACTED LIMEROCK MATERIAL. MINIMUM THICKNESS 18".
 3. UNDER NO CONDITION SHALL REPLACEMENT ASPHALTIC CONCRETE SURFACE THICKNESS BE LESS THAN 1-1/2".

- NOTES:**
- THE BACKFILL OF ALL THREE STAGES SHALL BE COMPACTED TO 98% OF MAXIMUM DENSITY AS DETERMINED BY MSHTO T-100. THE CITY'S INSPECTOR WILL DETERMINE LOCATIONS FOR DENSITY TESTS.
- CONTRACTOR TO PROVIDE TO THE CITY OF LAKELAND (2) TWO ROADWAY "CORES" EQUALLY SPACED ALONG THE ROADWAY CENTERLINE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ASPHALT OVERLAY (WHERE APPLICABLE) TO BE FEATHERED DOWN AT E.O.P. AND R/W LIMITS

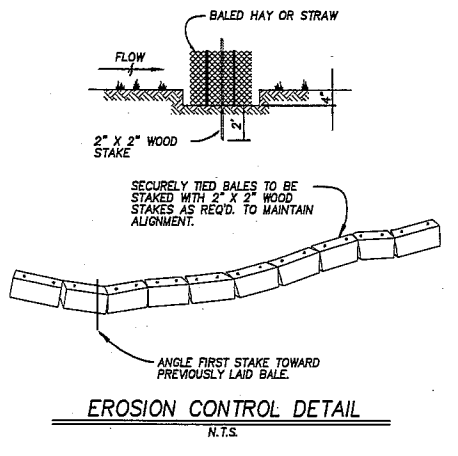
BACKFILL DETAIL FOR ASPHALT PAVEMENT / CONCRETE REPLACEMENT
N.T.S.

METER BOX ASSEMBLY FOR 5/8" X 3/4", 3/4" 1" METERS (UW-17)
N.T.S.

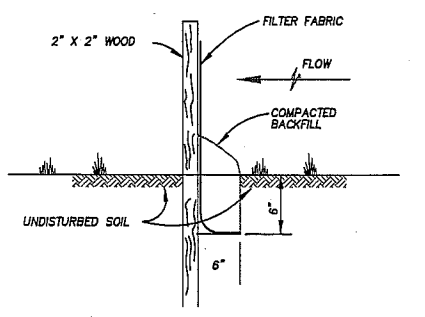


ASPHALT PAVEMENT REPLACEMENT

- BACKFILLING PROCEDURES**
- STAGE 1 ADEQUATE FILL SHALL BE PLACED AND COMPACTED BENEATH THE HAUNCHES OF THE PIPE IN SUCCESSIVE 6" LAYERS OF COMPACTED THICKNESS.
- STAGE 2 FILL SHALL BE PLACED AND COMPACTED ALONG THE SIDES OF THE PIPE AND TO A POINT AT LEAST ONE FOOT ABOVE THE TOP OF THE PIPE IN 6" LAYERS OF COMPACTED THICKNESS.
- STAGE 3 THE REMAINDER OF THE TRENCH SHALL BE BACKFILLED AND COMPACTED WITH SUITABLE OR DESIGNATED MATERIAL IN SUCCESSIVE 6" LAYERS OF COMPACTED THICKNESS.



EROSION CONTROL DETAIL
N.T.S.



EROSION CONTROL DETAIL
N.T.S.

1. THE BARRIER SHALL BE EROSIONPROOF (BY MIRAF, INC. OR EQUAL) AND IT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS IN CONJUNCTION WITH THE ENGINEERING CONSTRUCTION PLANS.
2. BARRIER MAINTENANCE:
 - A. IT SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
 - B. SHOULD IT DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, IT SHALL BE REPLACED PROMPTLY.
 - C. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. SEDIMENT MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
 - D. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIER IS NOT REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXIST. GRADE. PREPARED AND SOILED (SEEDED AND MULCHED).
3. THE BARRIER SHALL BE PERMANENTLY REMOVED ONLY WHEN IT HAS SERVED ITS USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

REVISIONS					
Date	By	Description	Date	By	Description

MANATEE COUNTY PUBLIC WORKS

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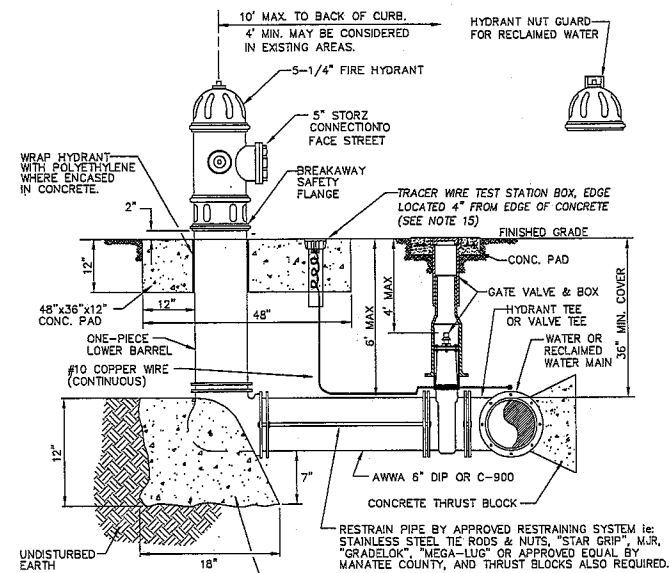
Certificate of Authorization No. 28988

NAME	DATE
DESIGNED BY JEH	1/10
DRAWN BY EW	1/10
CHECKED BY JEH	1/10

JOHN E. HOWLE, P.E.
FLA. REG. NO. 27584

DATE: _____

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- NOTES:
1. WEEPHOLES SHALL BE EXCLUDED FROM THE FIRE HYDRANT.
 2. FIRE HYDRANTS SHALL BE A MINIMUM OF 6' OFF EDGE OF PAVEMENT AND 10' MAX. FROM BACK OF CURB. WHERE POSSIBLE AND WHERE SIDEWALK IS TO BE INSTALLED, FIRE HYDRANT SHALL BE LOCATED BETWEEN SIDEWALK AND RIGHT-OF-WAY LINE.
 3. HYDRANTS SHALL BE FUSION BONDED EPOXY COATED SAFETY YELLOW FOR WATER AND PURPLE (PANTONE 522C) FOR RECLAIMED WATER. HYDRANT SHALL BE DUCTILE IRON CONSTRUCTION.
 4. FIRE HYDRANTS SHALL BE PLACED SO THAT STORM WATER FLOWS AWAY FROM THE HYDRANT.
 5. FIRE HYDRANTS SHALL BE CONSTRUCTED WITH "GROUND LINE" SET TO FINISHED GRADES AS ESTABLISHED IN THE FIELD. NORMAL BURY IS 3 FEET OF COVER FOR ALL WATER LINES.
 6. FIRE HYDRANTS MAY BE CONSTRUCTED WITH "GRADELOK" OFFSET FITTING.
 7. RAISED REFLECTIVE PAVEMENT MARKER (BLUE) FOR POTABLE WATER (PURPLE) FOR RECLAIMED WATER SHALL BE INSTALLED AT CENTERLINE OF PAVEMENT ADJACENT TO EACH HYDRANT.
 8. PRECAST CONCRETE THRUST BLOCKS & PADS SHALL NOT BE USED.
 9. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE 1/2" CHAMFER.
 10. FIRE HYDRANT VALVE SHALL BE FASTENED DIRECTLY TO TEE.
 11. IN-LINE VALVES SHOULD BE LOCATED AT HYDRANT TEES.
 12. HYDRANTS SHALL BE LOCATED ON SAME SIDE OF ROAD AS WATER MAIN UNLESS APPROVED BY M.C.U.O.D.
 13. THERE MUST BE A CLEARANCE OF 7 1/2 FEET FROM FRONT AND BOTH SIDES, AND FOUR FEET TO THE REAR OF THE HYDRANT, TO ABOVE GRADE OBSTRUCTIONS INCLUDING POSTS, FENCES, TREES, ETC., PER THE FLORIDA FIRE PREVENTION CODE.
 14. SEE GATE VALVE, BOX AND LID STANDARD DETAIL UW-2.
 15. SHOULD THE FIRE HYDRANT'S CONCRETE PAD OVERLAP THE SIDEWALK, THE TRACER WIRE TEST STATION BOX SHALL NOT BE LOCATED WITHIN THE SIDEWALK.

FIRE HYDRANT ASSEMBLY (UW-5)

N.T.S.

REVISIONS

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	NAME	DATE
DESIGNED BY	JEH	3/10
DRAWN BY	EW	3/10
CHECKED BY	JEH	3/10

DATE: _____

ROWLETT ELEMENTARY SCHOOL SIDEWALK PHASE IV

MISCELLANEOUS DETAILS

MANATEE COUNTY, FLORIDA

JOHN E. HOWLE, P.E.
FLA. REG. NO. 27584

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THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE DESIGN STANDARDS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS.

1.0 SITE DESCRIPTION

1.A. NATURE OF CONSTRUCTION ACTIVITY:

THE PROJECT OBJECTIVE IS TO CONSTRUCT A SIDEWALK ALONG THE EAST SIDE OF 9TH STREET EAST FROM 30TH AVENUE EAST TO CORTEZ ROAD EAST (3,963-FT).

THE DRAINAGE ALONG THIS SECTION OF ROAD CONSISTS OF OPEN DITCH AREAS WITH INFRASTRUCTURE. DUE TO THE LIMITED SPACE AVAILABLE FOR THE PROPOSED SIDEWALK SECTIONS, THE CONVEYANCE SWALES WILL EITHER BE PARTIALLY FILLED OR REPLACED WITH SHALLOW SWALES AND UNDERGROUND DRAINAGE.

1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE.

- 1. CLEARING AND GRUBBING, EARTHWORK AND STORM DRAIN CONSTRUCTION.
2. EARTHWORK ASSOCIATED WITH THE CONSTRUCTION OF SIDEWALK.

1.C. AREA ESTIMATES:

TOTAL SITE AREA: 3.69 ACRES
TOTAL AREA TO BE DISTURBED: 0.31 ACRES

1.D. RUNOFF DATA

RUNOFF COEFFICIENTS:
BEFORE: 82-94
DURING: VARIES FROM 82-95
AFTER: 87-95

SOILS DATA: ACCORDING TO MANATEE COUNTY SCS SOIL SURVEY FROM 1979, THE PROJECT TO WITHIN SOIL TYPE; TYPE #16-DELRAY FINE SAND, TYPE #20-EAU GALLE FINE SAND, TYPE #35-ONA AND TYPE #36 ORLANDO FINE SAND.

1. DESCRIPTION: DITCH

1.E. SITE MAP

THE CONSTRUCTION PLANS ARE USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW.

* DRAINAGE PATTERNS: THE DRAINAGE BASIN DIVIDES AND FLOW DIRECTIONS ARE SHOWN ON THE DRAINAGE MAPS OF THE STORMWATER MANAGEMENT SYSTEM REPORT.

- * APPROXIMATE SLOPES: BASED ON USGS MAPS FROM STATION 10+00 TO STATION 13+20 THE SLOPE OF THE SITE HAS BEEN ESTIMATED TO BE APPROXIMATELY 0.22% TOWARDS THE EAST FROM STATION 13+20 TO 21+30 THE SLOPE OF THE SITE HAS BEEN ESTIMATED TO BE APPROXIMATELY 0.25% TOWARDS THE WEST.
* AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE PLAN SHEETS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.
* AREAS NOT TO BE DISTURBED: ESSENTIALLY THE WHOLE PROJECT WILL BE DISTURBED DURING CONSTRUCTION.
* LOCATION OF TEMPORARY CONTROLS: THESE ARE SHOWN ON THE CONSTRUCTION PLANS. TABLES PROVIDING SUMMARIES OF TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS ARE PROVIDED IN THE SUMMARY OF QUANTITY SHEETS.
* LOCATIONS OF PERMANENT CONTROLS: THE PROPOSED SWALES ARE THE PRIMARY PERMANENT STORMWATER MANAGEMENT CONTROLS. THESE ARE SHOWN ON THE PLAN SHEETS.
* AREAS ARE TO BE STABILIZED: TEMPORARY STABILIZATION PRACTICES ARE SHOWN IN THE SAME LOCATION AS THE TEMPORARY CONTROLS MENTIONED ABOVE. PERMANENT STABILIZATION IS SHOWN ON THE TYPICAL SECTION SHEETS AND THE PLAN SHEETS.
1. SURFACE WATERS: THE SURFACE WATERS IN THE PROJECT CONSISTS OF AN EXISTING SWALE ALONG THE ROADWAY FROM STATION 46+20 TO STATION 71+30.
2. DISCHARGE POINTS TO SURFACE WATERS: THERE IS ONE DISCHARGE POINT ON THE PROJECT. IT IS EXISTING PIPE CULVERT LOCATED ON THE PLAN AND PROFILE SHEET STATION 47+23
3. SEE ITEM 1.D FOR THE OUTFALL LOCATIONS AND RECEIVING WATER NAMES.

1.F. RECEIVING WATERS:

THERE ARE NO WETLAND AREAS ON THE PROJECT SITE.

2.0 CONTROLS:

2.A. EROSION AND SEDIMENT CONTROLS:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES BASED ON THE CONTRACTOR'S PROPOSED TEMPORARY TRAFFIC CONTROL (TTC) PLAN.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE.

TEMPORARY:

- * ARTIFICIAL COVERINGS IN ACCORDANCE WITH SPECIFICATIONS SECTION 104.
* TURF AND SOD IN ACCORDANCE WITH SPECIFICATION SECTION 104.
PERMANENT:
* CONCRETE SURFACE.
* SOD IN ACCORDANCE WITH SPECIFICATION SECTION 570.

2.A.2 STRUCTURAL PRACTICES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE.

TEMPORARY:

- * SILT FENCE IN ACCORDANCE WITH DESIGN STANDARD 102 AND SPECIFICATION SECTION 104.
* SYNTHETIC BALES IN ACCORDANCE WITH DESIGN STANDARD 102 AND SPECIFICATION SECTION 104.
* INLET PROTECTION IN ACCORDANCE WITH DESIGN STANDARD 102 AND SPECIAL DETAILS SHOWN IN THE TTC PLAN.

PERMANENT:

- * VEGITATED SWALES
* SOD

2.B. STORMWATER MANAGEMENT

SEVERAL STORM DRAIN SYSTEMS WILL BE CONSTRUCTED TO CONVEY RUNOFF TO EXISTING STORMWATER FACILITIES.

2.C. OTHER CONTROLS:

2.C.1 WASTE DISPOSAL:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES.

- * PROVIDING LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES.
* DISPOSING OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
* DISPOSING OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS OR WETLANDS.

2.C.2 OFF-SITE VEHICLE TRACKING & DUST CONTROL:

IN SECTION 104 OF THE EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFF-SITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST.

- * COVERING LOADED HAUL TRUCKS WITH TARPULAINS
* REMOVING EXCESS DIRT FROM ROADS DAILY
* STABILIZING CONSTRUCTION ENTRANCES ACCORDING TO DESIGN STANDARD 106
* USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION.

2.C.3 STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER OR SEPTIC TANK REGULATIONS:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL AND SANITARY SEWER OR SEPTIC SYSTEMS.

2.C.4 FERTILIZERS AND PESTICIDES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES.

2.C.5 TOXIC SUBSTANCES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, STORAGE AND DISPOSAL OF THESE SUBSTANCES.

2.C.6 DEWATERING PLAN

NO DEWATERING SHALL BE PERFORMED BETWEEN STATION 72+00 AND STATION 77+09.47.

WATER SHALL BE REMOVED FROM ANY EXCAVATION PRIOR TO INSTALLING PIPE. WHERE THE GROUNDWATER TABLE IS HIGH AND WILL CAUSE CONTINUAL INFLOW OF WATER, WELL-POINTS SHALL BE UTILIZED.

2.D.4 APPROVED STATE AND LOCAL PLANS AND PERMITS:

3.0 MAINTENANCE:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION.

- * SILT FENCE: MAINTAIN PER SECTION 104. THE CONTRACTOR SHOULD ANTICIPATE REPLACING SILT FENCE ON 12 MONTH INTERVALS.
* SYNTHETIC BALES: REMOVE SEDIMENT WHEN IT REACHES 1/2 THE HEIGHT OF BALES OR WHEN WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS.
* ALL EXISTING AND PROPOSED DITCHES/SWALES, DRAINAGE PIPES AND STRUCTURES WITHIN THE PROJECT AREA ARE TO BE THOROUGHLY CLEARED OF SILT AND DEBRIS DURING CONSTRUCTION AFTER UPON COMPLETION OF CONSTRUCTION.

4.0 INSPECTIONS:

QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER, TO COMPLY.

- * POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM DRAIN SYSTEMS.
* DISTURBED AREAS FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
* AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
* STRUCTURAL CONTROLS
* LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE

THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE ITEMS ARE NOT IN WORKING ORDER.

IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT AND PREVENT DISCHARGING POLLUTANTS.

5.0 NON-STORMWATER DISCHARGES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES).

EROSION and SEDIMENTATION CONTROL OWNER CERTIFICATION

I, _____, certify on _____ (DATE) (OWNER or OWNER REPRESENTATIVE) per SWFWMD BOR Section 2.8, that these plans present minimum EROSION and SEDIMENTATION CONTROL measures for the CONTRACTOR to enforce during all construction activities.

REVISIONS

Table with 9 columns: Date, By, Description, Date, By, Description, Date, By, Description

MANATEE COUNTY PUBLIC WORKS
CSDG Field Book No.:



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Table with 4 columns: NAME, DATE, DESIGNED BY, DRAWN BY, CHECKED BY

NAOMI A. TILLET, P.E.
FLA. REG. NO. 58194
DATE:

ROWLETT ELEMENTARY SCHOOL SIDEWALK PHASE IV
STORMWATER POLLUTION PREVENTION PLAN
MANATEE COUNTY, FLORIDA