



CITY OF NORTH PORT CHANGE ORDER/CONTRACT AMENDMENT FORM

Number: Contract Amendment No. 1 Date of Issuance: April 13, 2015

City's Contract No.: 2013-52 Project Manager: Ben Newman

Project Name: Sumter Boulevard Phase IIIA Widening Project

Originating Department: Public Works

Contractor: Ajax Paving Industries of Florida, LLC

Description:

The storm drainage system of the newly widened Price Boulevard, west of Sumter Boulevard, terminates with stormwater inlet structures in the drainage swales on both side of Price Boulevard. When stormwater drains into the curb and gutter inlet structures and stormwater piping of the newly widened segment, it will then overflow out of the tops of these two inlet structures and into the existing storm drainage swales along Price Boulevard to the Myakkahatchee Creek. As the existing swales on both sides of this segment of Price Boulevard to the Myakkahatchee Creek are typically saturated with water, the maintenance of the swales has been problematic and capacity of the swales diminishes over time from damage to the shape and flow line of the swales when trying to mow them. Occasionally, vehicles leave the paved roadway, both intentionally and unintentionally, leaving deep ruts in the swales, further reducing their flow capacity.

To improve the condition of these swales and reduce the maintenance effort, the Sumter Boulevard Phase IIIA Widening Project Engineer-of-Record, Kimley-Horn and Associates, was tasked to design a system to dry-out the swales so their storm drainage flow capacity can be reasonably maintained. The system selected for implementation is a perforated pipe buried several feet in the swales and encased in a rock trench. The perforated pipe will be connected to the two terminal stormwater inlet structures mentioned above, so they can partially empty after a rain event. The roadside swales will be reshaped and graded for maximum flow capacity to the Myakkahatchee Creek. The construction plans for this swale drainage system were provided to Ajax Paving Industries of Florida, LLC for pricing, with the contract cost and time reflected in this contract amendment.

Staff has reviewed the costing of this work submitted by Ajax Paving Industries of Florida, LLC in consideration of the differing site conditions relative to the Sumter Boulevard widening and have determined it to be reasonable.

Purpose of Change Order:

1. To compensate the contractor for the additional work as depicted on the plans prepared by Kimley-Horn and Associates for this work requested by the City in the amount of \$407,339.99.
2. Increase contingency funds by \$41,600.00
3. Add 120 days to the contract time.

Attachments (list documents supporting change):

1. Ajax Paving Industries of Florida, LLC proposal for this work.
2. Price Boulevard Ditch Improvement Plans prepared by Kimley-Horn and Associates

CHANGE IN CONTRACT PRICE				CHANGE IN CONTRACT TIME	
Original Contract Amount:	9,033,636.40			Original Contract Time (days or dates):	390
Previous change orders:	#	1	to # 11	Approved Additions/Deductions of time:	126
Approved Change Orders Amount:	\$229,369.64			Current Contract Time:	518
Current Contract Price:	9,263,006.04			Increase/(Decrease) in contract time:	120
Increase/(Decrease):	\$407,339.99			Total Approved Contract Time:	638
Total Contract Amount:	\$9,670,346.03			Original Completion Date:	12/07/14
				Revised Completion Date:	08/12/15

CONTINGENCY FUNDS	
Use of Contingency Funds?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Original Contingency Amount:	\$475,000.00
Amended Contingency Amount	\$516,600.00
Approved Use of Contingency Amount:	\$359,713.20
Increase/(Decrease):	0
Contingency Balance:	\$156,886.80

RECOMMENDED:

By: Stuart Cayo
Contractor
Date: 3/20/15

RECOMMENDED:

By: Gerald J. Baluchi
City Project Manager
Date: 3/20/15

APPROVED:

By: J. B. Belin
Department Director
Date: 3/20/15

APPROVED:

By: _____
Purchasing Manager
Date: _____

APPROVED:

By: _____
Finance Director
Date: _____

APPROVED (if applicable):

By: _____
City Manager
Date: _____



Ajax Paving Industries of Florida, LLC.
 510 Gene Green Road, Nokomis, FL 34275
 Phone: 941-486-3600
 Fax: 941-486-3500
 www.ajaxpaving.com

The Future is Riding on Ajax.™

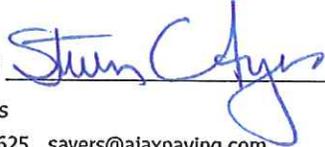
To:	CITY OF NORTH PORT	Contact:	
Address:	5650 NORTH PORT BLVD NORTH PORT, FL 34287-3103	Phone:	941-429-7170
Project Name:	Sumter Boulevard Phase IIIA Widening Project	Fax:	941-423-3636
Project Location:		Bid Number:	2013-52
		Bid Date:	8/26/2013

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
	Change Order #12 - Price Blvd Ditch Improvements	1.00	LS	\$0.00	\$0.00
	MOBILIZATION	1.00	LS	\$25,155.00	\$25,155.00
	MAINTENANCE OF TRAFFIC	1.00	LS	\$30,800.00	\$30,800.00
	EARTHWORK	1.00	LS	\$41,760.00	\$41,760.00
	BAHIA SOD	11,000.00	SY	\$1.71	\$18,810.00
	SILT FENCE	300.00	LF	\$0.60	\$180.00
	SAW CUT AND RESURFACE DRIVEWAY	235.00	SY	\$65.15	\$15,310.25
	8" UNDERDRAIN	3,869.00	LF	\$54.90	\$212,408.10
	CONNECT TO INLETS	2.00	EACH	\$980.00	\$1,960.00
	CLEANOUT	13.00	EACH	\$533.00	\$6,929.00
	CONCRETE CLEAN OUT COLLAR	13.00	EACH	\$143.00	\$1,859.00
	6" UNDERDRAIN	70.00	LF	\$54.70	\$3,829.00
	TYPE D INLET WITH SKIMMERS	1.00	EACH	\$5,600.00	\$5,600.00
	14" X 23" ERCP	208.00	LF	\$60.55	\$12,594.40
	19" X 30" ERCP	284.00	LF	\$67.55	\$19,184.20
	19" X 30" ERCP MES WITH PIPE GRATE	1.00	EACH	\$3,650.00	\$3,650.00
	14" X 23" ERCP MES	4.00	EACH	\$1,430.00	\$5,720.00
	8" MES	2.00	EACH	\$360.00	\$720.00
	RIP RAP DITCH LINING WITH FILTER FABRIC	8.00	TON	\$108.88	\$871.04

Total Bid Price: \$407,339.99

Notes:

- Additional contractcalendar days required are 120 days.

<p>ACCEPTED: The above prices, specifications and conditions are satisfactory and are hereby accepted.</p> <p>Buyer: _____</p> <p>Signature: _____</p> <p>Date of Acceptance: _____</p>	<p>CONFIRMED: Ajax Paving Industries Of Florida, LLC</p> <p>Authorized Signature: </p> <p>Estimator: Steve Ayers 941-650-3625 sayers@ajaxpaving.com</p>
--	--

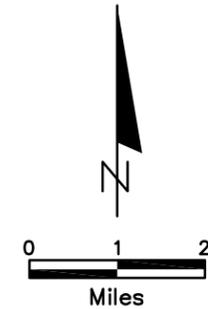
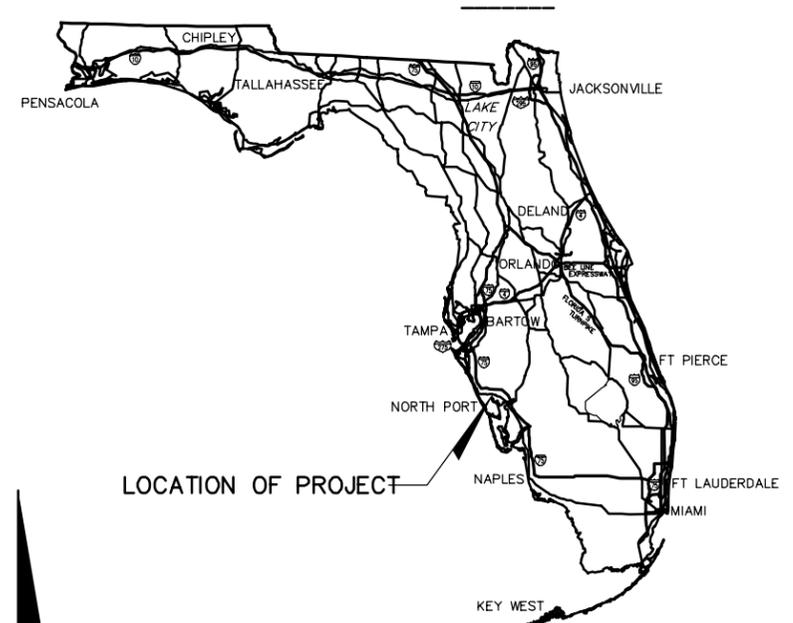
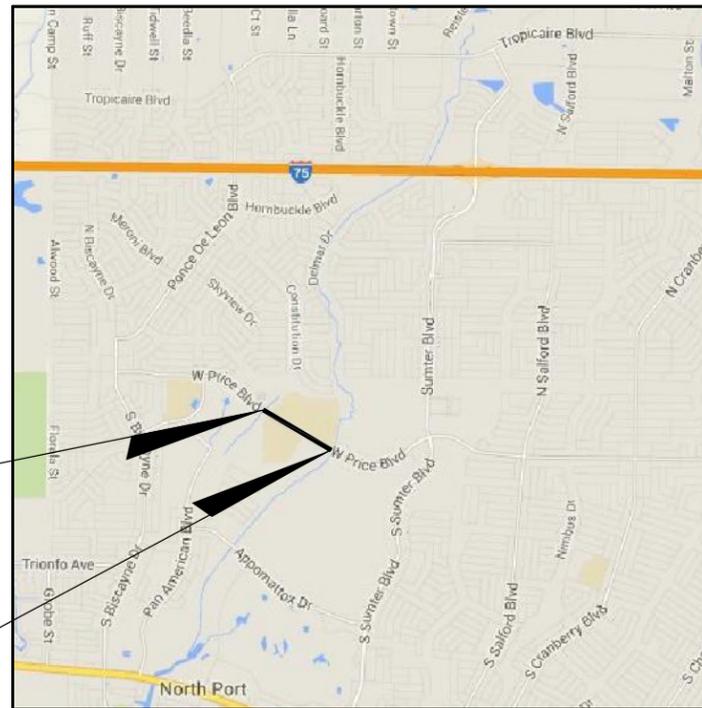
CITY OF NORTH PORT NORTH PORT CITY COMMISSION CONTRACT PLANS

PRICE BOULEVARD DITCH IMPROVEMENTS

FROM STA. 42+80 TO STA. 65+25

INDEX OF SHEETS

SHEET NO.	SHEET DESCRIPTION
C-1	COVER SHEET
C-2	GENERAL NOTES
C-3 TO C-7	GRADING PLAN
C-8 TO C-13	DITCH CROSS SECTIONS
C-14 TO C-15	TYPICAL DETAILS
C-16	BEST MANAGEMENT PLAN AND DETAILS



PLANS PREPARED BY:
**Kimley-Horn
and Associates, Inc.**
 1777 MAIN STREET SARASOTA, FL 34236
 (941) 379-4352
 PROJECT NUMBER: 048285019
 CERTIFICATE OF AUTHORIZATION: 00000696

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

*CONSTRUCTION
PLAN SET*

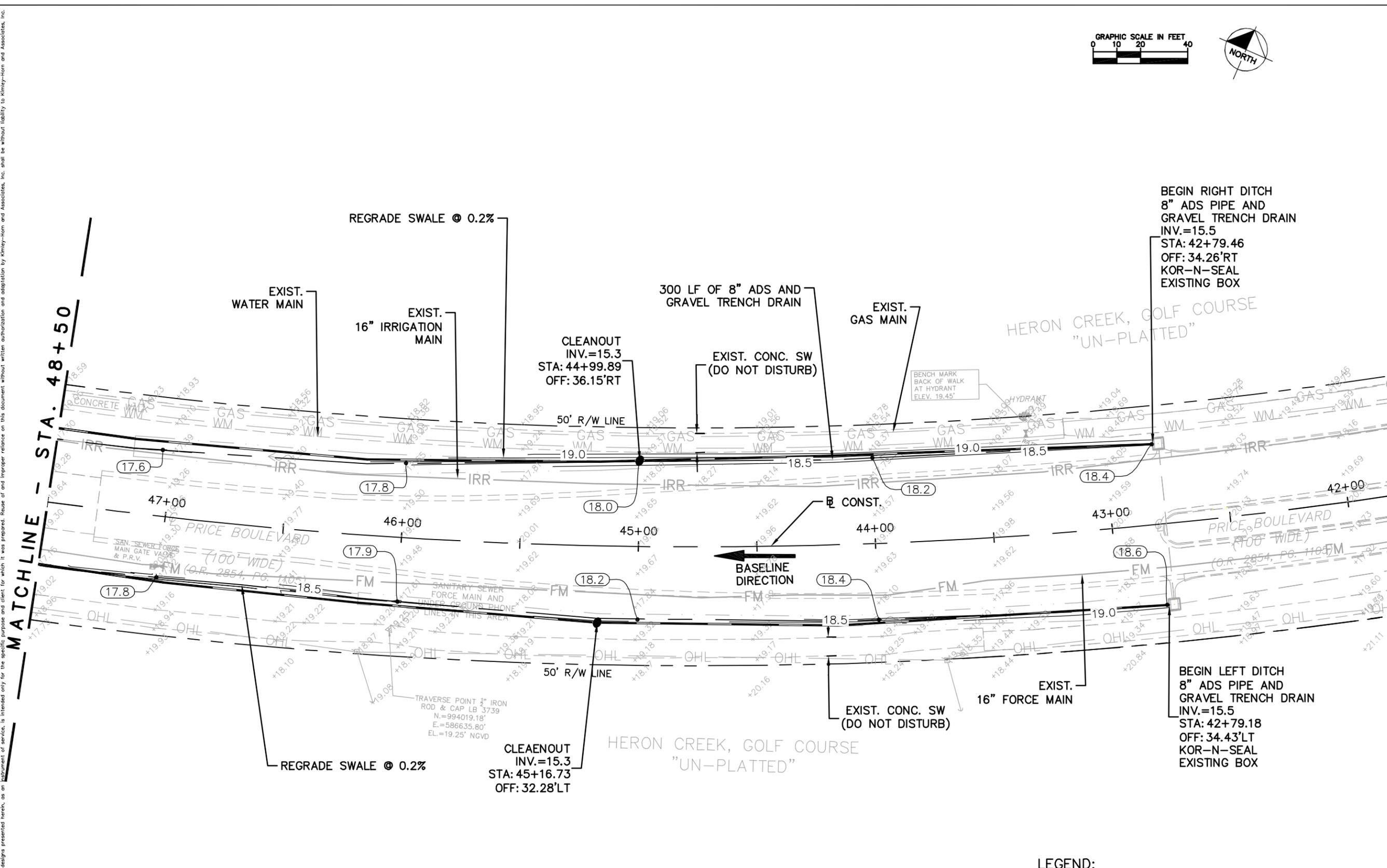
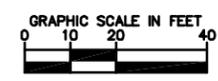
ENGINEER OF RECORD: _____ PETER T. VANBUSKIRK, P.E.
 P.E. NO.: 38859 _____

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

Kimley-Horn	© 2015 KIMLEY-HORN AND ASSOCIATES, INC. 1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236 PHONE: 941-379-7600 FAX: 941-379-4352 WWW.KIMLEY-HORN.COM CA 0000696
LICENSED PROFESSIONAL PETER T. VAN BUSKIRK FLORIDA LICENSE NUMBER 38859	KHA PROJECT: 048285019 DATE: JAN 2015 SCALE: AS SHOWN DESIGNED BY: _____ DRAWN BY: _____ CHECKED BY: _____ DATE: _____
PRICE BLVD DITCH IMPROVEMENTS PREPARED FOR CITY OF NORTH PORT SARASOTA COUNTY FLORIDA	SHEET NUMBER C-1
REVISIONS No. _____ DATE _____ BY _____	

Plotted By: Lugo, Carlos Sheet Set: Price Blvd - Underdrain Layout: C-1 COVER SHEET February 05, 2015 06:06:03pm K:\SAR_Roadway\048285019_Sumter_3A_C\CIVIL\CADD\PlanSheets\UnderDrain\A-1_CoverSheet.dwg
 This document, together with the concepts and designs presented herein, is an instrument of service, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Plotted By: Lugo, Carlos. Sheet Set: Price Blvd - Underdrain. Layout: C-3. February, 05, 2015. 06:06:52pm. K:\SAB_Roadway\048285019_Summer_3A_CIVIL\CAD\PlanSheets\UnderDrain\C-3_CraftingPlan.dwg
 This document, together with the concepts and designs presented herein, is an instrument of service, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



BEGIN RIGHT DITCH
 8" ADS PIPE AND
 GRAVEL TRENCH DRAIN
 INV.=15.5
 STA: 42+79.46
 OFF: 34.26'RT
 KOR-N-SEAL
 EXISTING BOX

BEGIN LEFT DITCH
 8" ADS PIPE AND
 GRAVEL TRENCH DRAIN
 INV.=15.5
 STA: 42+79.18
 OFF: 34.43'LT
 KOR-N-SEAL
 EXISTING BOX

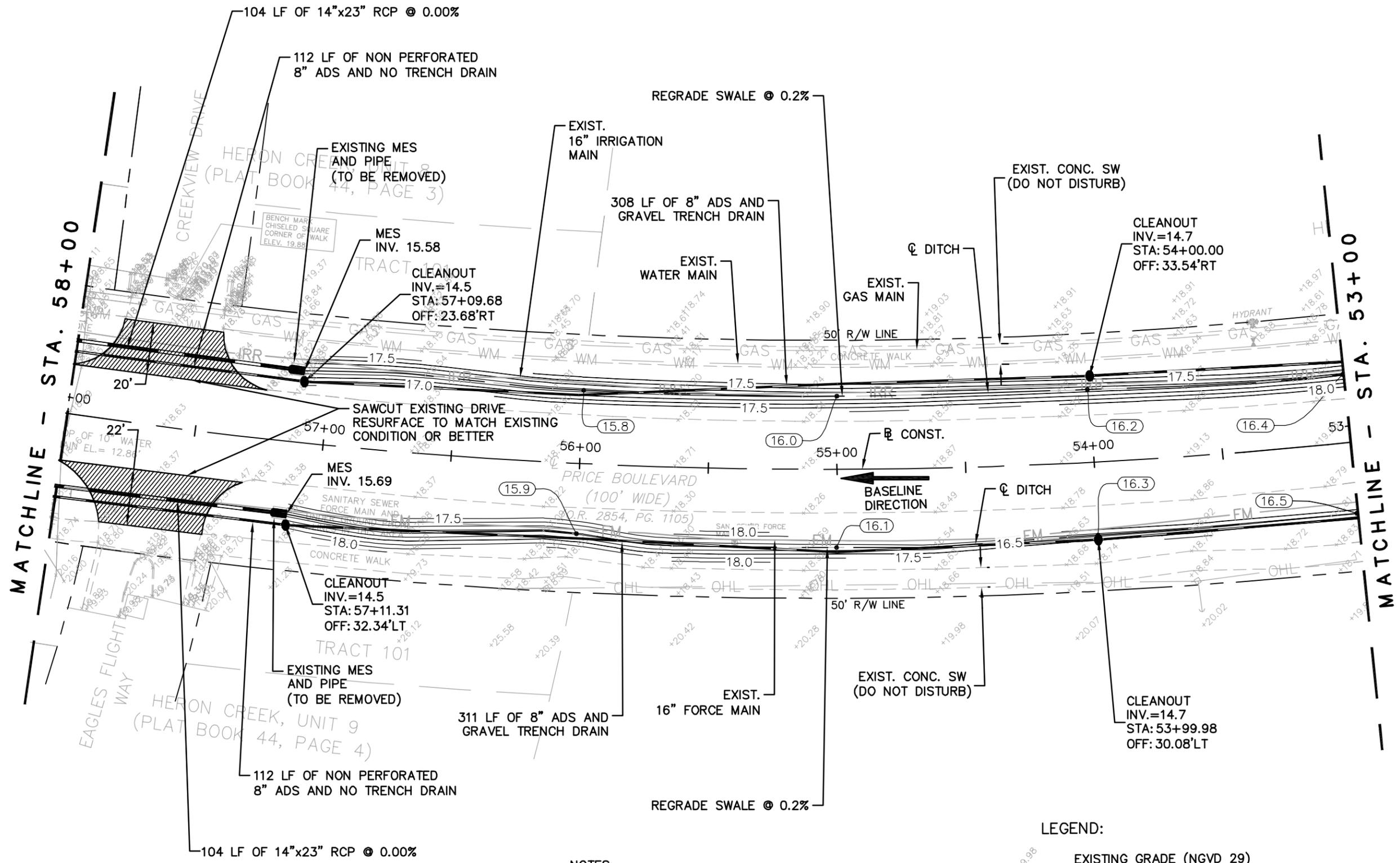
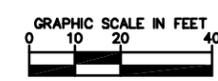
LEGEND:

- EXISTING GRADE (NGVD 29)
- PROPOSED GRADE (NGVD 29)
- 8" PERFORATED DRAIN LINE IN GRAVEL MEDIA
- 8" CLEANOUT AT GRADE

- NOTES:**
- FOR GRAVEL TRENCH DRAIN DETAIL AND CLEANOUT DETAIL SEE SHEET C-14

Kimley-Horn		LICENSED PROFESSIONAL PETER T. VAN BUSKIRK FLORIDA LICENSE NUMBER 36859	
KHA PROJECT 048285019		DATE JAN 2015	
SCALE AS SHOWN		DESIGNED BY DRAWN BY CHECKED BY	
1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236 PHONE: 941-379-7600 FAX: 941-379-4352 WWW.KIMLEY-HORN.COM CA 0000696		DATE: _____ REVISIONS: _____ No. _____ DATE _____ BY _____	
GRADING PLAN			
PRICE BLVD DITCH IMPROVEMENTS PREPARED FOR CITY OF NORTH PORT SARASOTA COUNTY FLORIDA			
SHEET NUMBER			
C-3			

Plotted By: Lugo, Carlos. Sheet Set: Price Blvd - Underdrain. Layout: C-5. February 05, 2015. 06:07:21pm. K:\SAR_Roadway\048285019_Summer_3A_CIVIL\ADD\PlanSheets\UnderDrain\C-2_GradingPlan.dwg
 This document, together with the concepts and designs presented herein, is an instrument of service, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

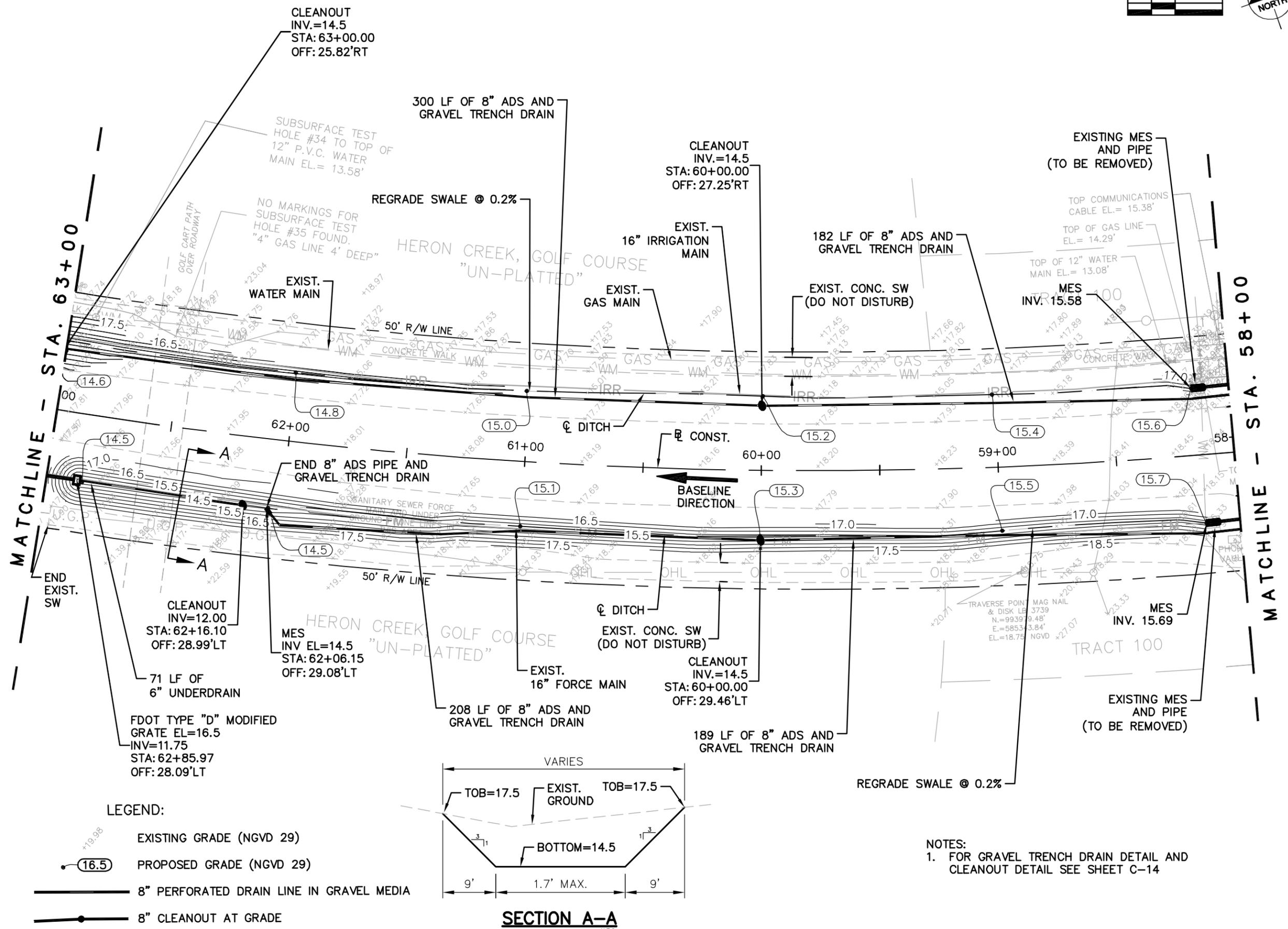
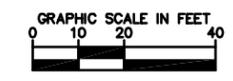


NOTES:
 1. FOR GRAVEL TRENCH DRAIN DETAIL AND CLEANOUT DETAIL SEE SHEET C-14

- LEGEND:**
- EXISTING GRADE (NGVD 29)
 - PROPOSED GRADE (NGVD 29)
 - 8" PERFORATED DRAIN LINE IN GRAVEL MEDIA
 - 8" CLEANOUT AT GRADE

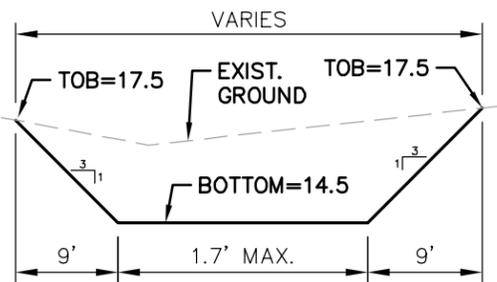
		LICENSED PROFESSIONAL PETER T. VAN BUSKIRK FLORIDA LICENSE NUMBER 36859	
		KHA PROJECT 048285019 DATE JAN 2015	SCALE AS SHOWN DESIGNED BY DRAWN BY CHECKED BY
GRADING PLAN		REVISIONS No. DATE BY	
PRICE BLVD DITCH IMPROVEMENTS PREPARED FOR CITY OF NORTH PORT SARASOTA COUNTY FLORIDA		SHEET NUMBER C-5	

Plotted By: Lugo, Carlos. Sheet Set: Price Blvd - Underdrain. Layout: C-6. February 05, 2015. 06:07:34pm. K:\SAR_Roadway\048285019_Summit_3A_CIVIL\CAD\PlanSheets\UnderDrain\C-2_GradingPlan.dwg
 This document, together with the concepts and designs presented herein, is an instrument of service, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



LEGEND:

- EXISTING GRADE (NGVD 29)
- PROPOSED GRADE (NGVD 29)
- 8" PERFORATED DRAIN LINE IN GRAVEL MEDIA
- 8" CLEANOUT AT GRADE

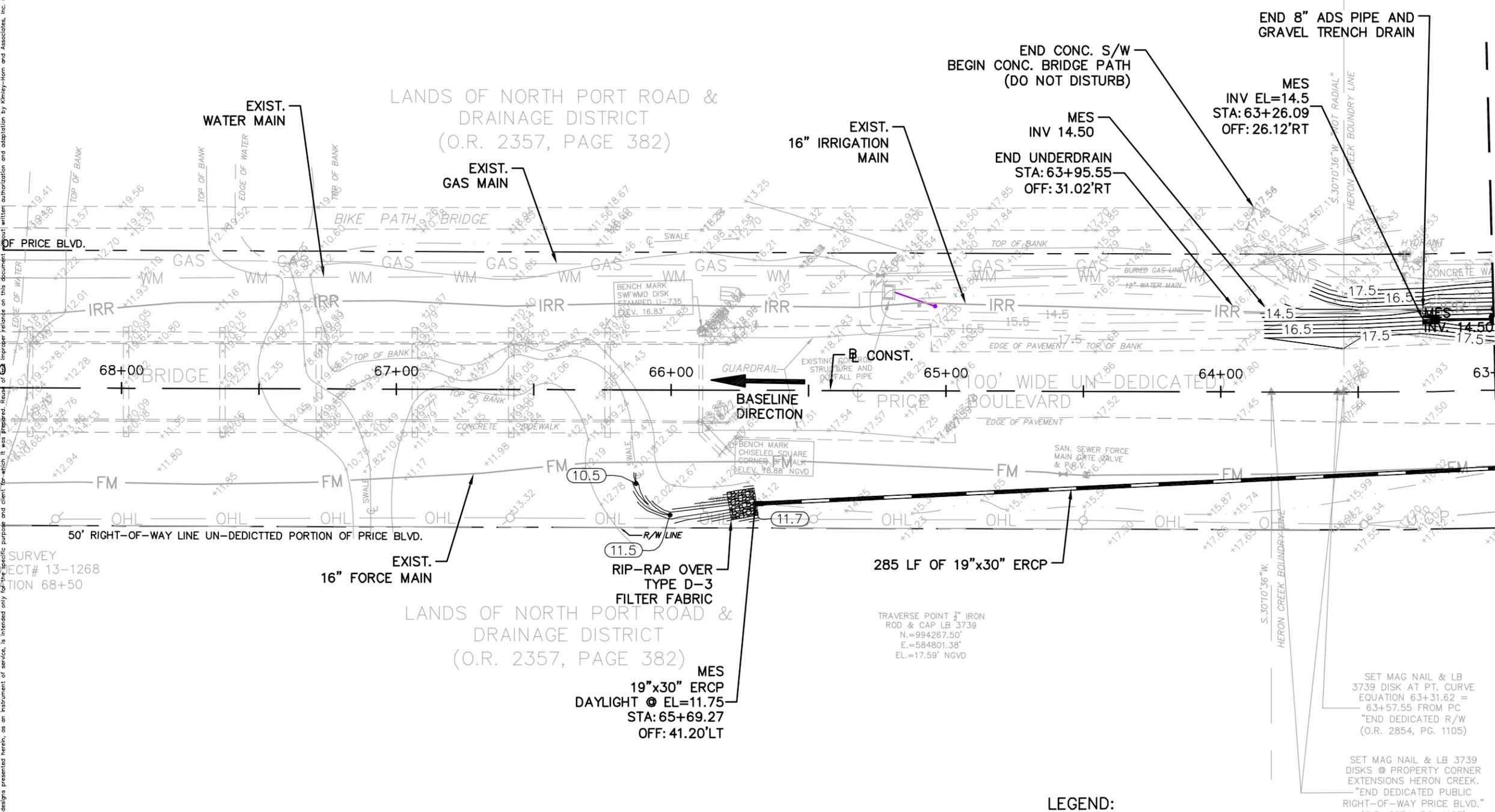


SECTION A-A
N.T.S.

- NOTES:**
- FOR GRAVEL TRENCH DRAIN DETAIL AND CLEANOUT DETAIL SEE SHEET C-14

Kimley»Horn	
© 2015 KIMLEY-HORN AND ASSOCIATES, INC. 1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236 PHONE: 941-379-7600 FAX: 941-379-4352 WWW.KIMLEY-HORN.COM CA 0000696	
LICENSED PROFESSIONAL PETER T. VAN BUSKIRK FLORIDA LICENSE NUMBER 36859	No. _____ REVISIONS DATE
GRADING PLAN	
PRICE BLVD DITCH IMPROVEMENTS PREPARED FOR CITY OF NORTH PORT FLORIDA SARASOTA COUNTY	
SHEET NUMBER C-6	

Plotted By: Lugo, Carlos. Sheet Set: Price Blvd - Underdrain. Layout: C-7. February 05, 2015. 06:07:48pm. K:\SAR_Roadway\048285019_Summer_3A_CIVIL\CADD\PlanSheets\UnderDrain\C-7_CraftingPlan.dwg
 This document, together with the concepts and designs presented herein, is an instrument of service, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Read and interpret with care. No other person should rely on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



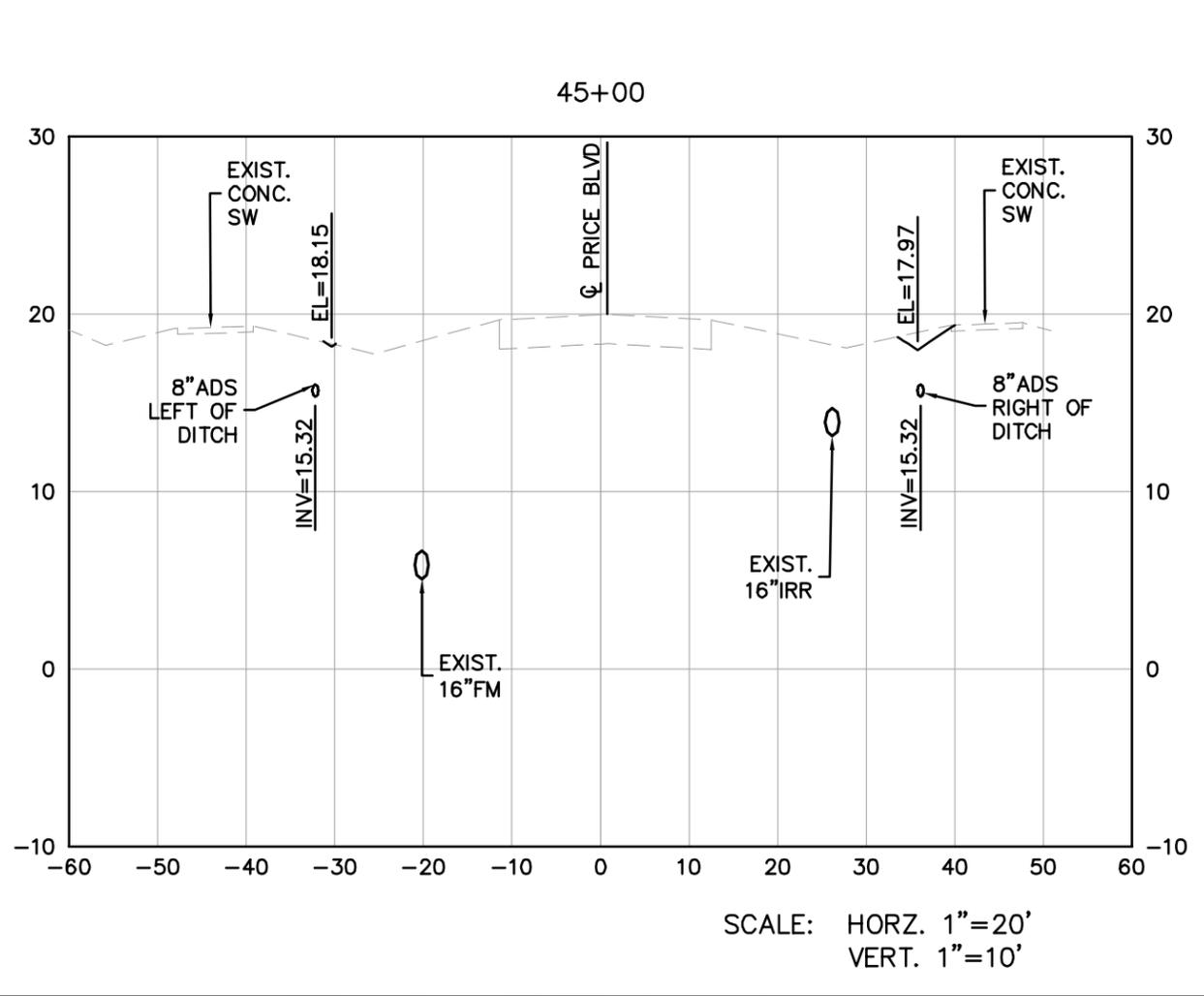
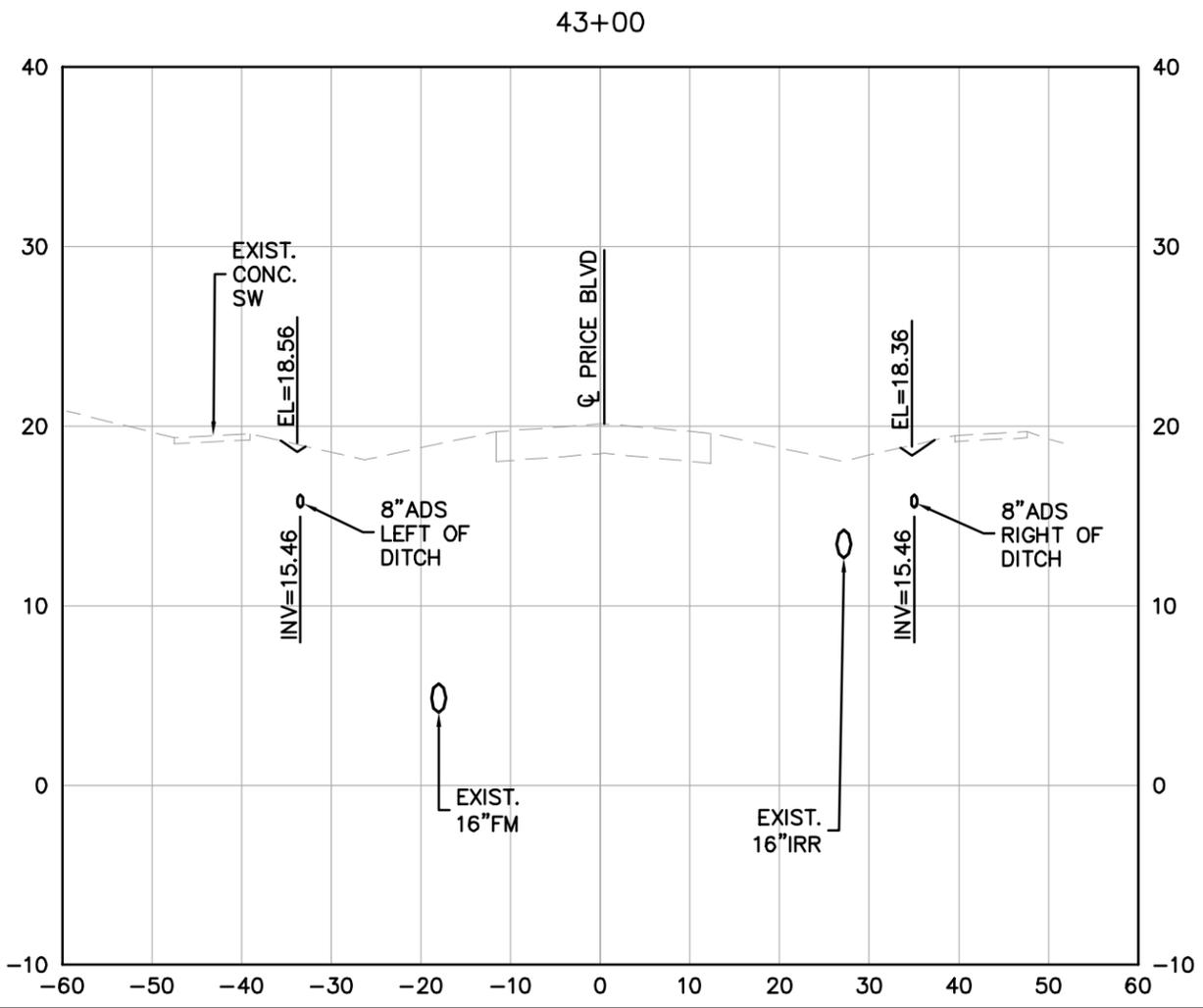
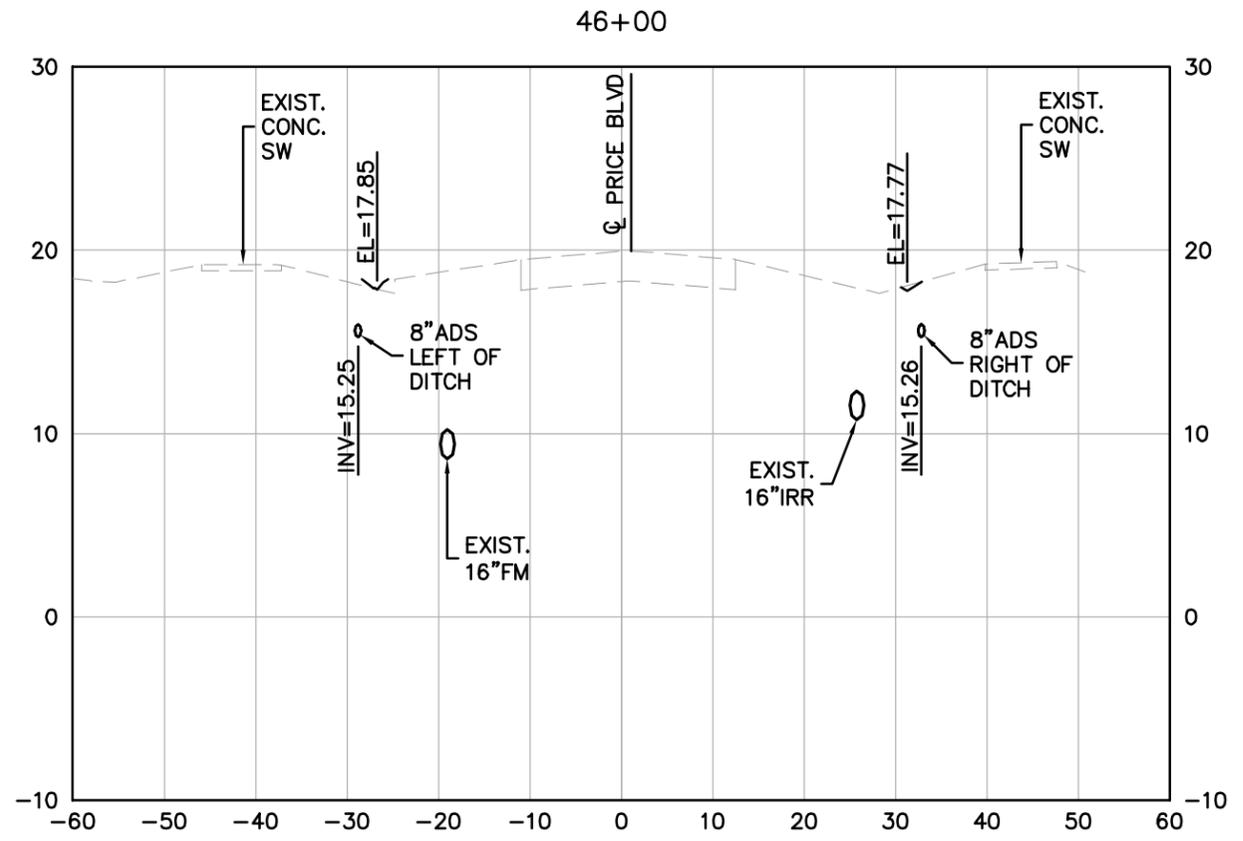
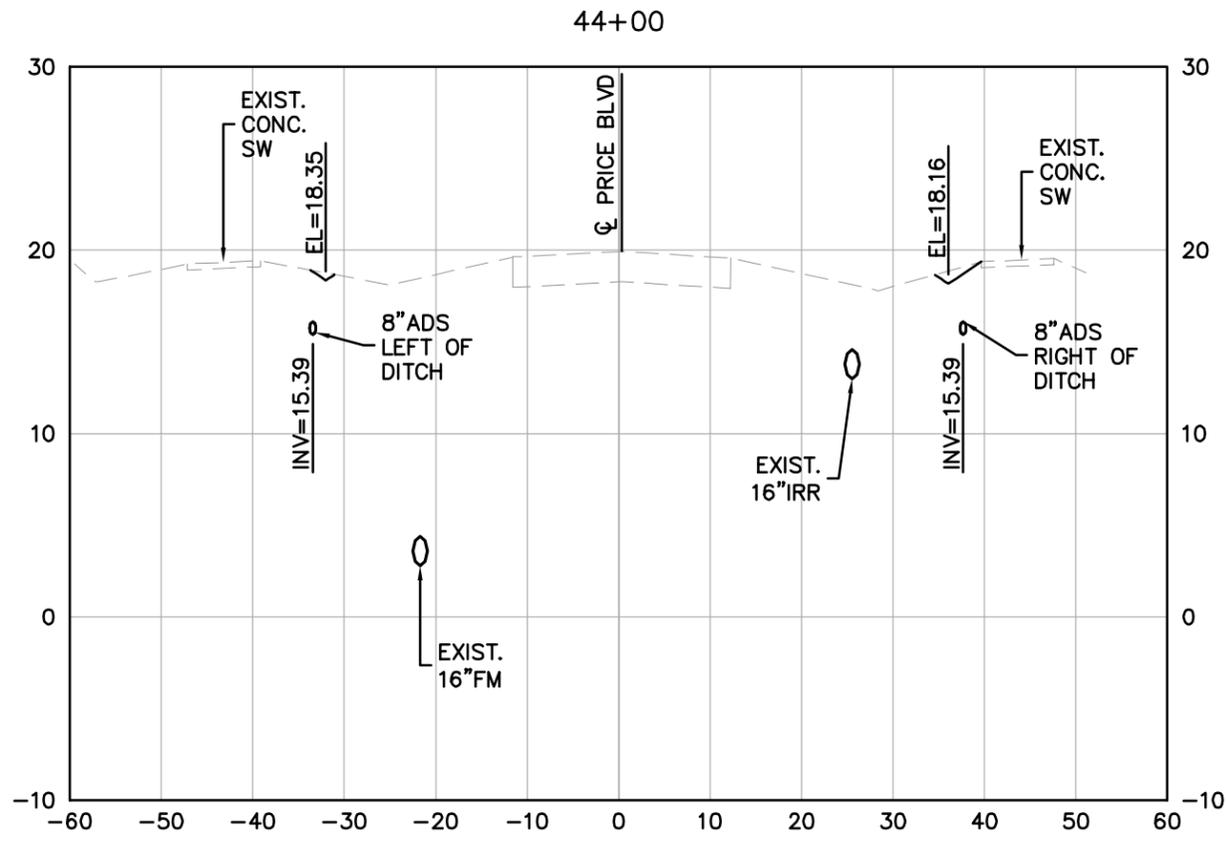
MATCHLINE - STA. 63+00

- NOTES:**
- FOR GRAVEL TRENCH DRAIN DETAIL AND CLEANOUT DETAIL SEE SHEET C-14

- LEGEND:**
- EXISTING GRADE (NGVD 29)
 - PROPOSED GRADE (NGVD 29)
 - 8" PERFORATED DRAIN LINE IN GRAVEL MEDIA
 - 8" CLEANOUT AT GRADE

GRADING PLAN		PRICE BLVD DITCH IMPROVEMENTS PREPARED FOR CITY OF NORTH PORT		FLORIDA	
SARASOTA COUNTY		SARASOTA COUNTY		SARASOTA COUNTY	
KHA PROJECT 048285019		LICENSED PROFESSIONAL		Kimley»Horn	
DATE JAN 2015		PETER T. VAN BUSKIRK		© 2015 KIMLEY-HORN AND ASSOCIATES, INC. 1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236 PHONE: 941-379-7600 FAX: 941-379-4352 WWW.KIMLEY-HORN.COM CA 0000696	
SCALE AS SHOWN		FLORIDA LICENSE NUMBER 36859		REVISIONS	
DESIGNED BY		DRAWN BY		No.	
CHECKED BY		DATE		DATE	
BY		BY		BY	
SHEET NUMBER C-7		SHEET NUMBER C-7		SHEET NUMBER C-7	

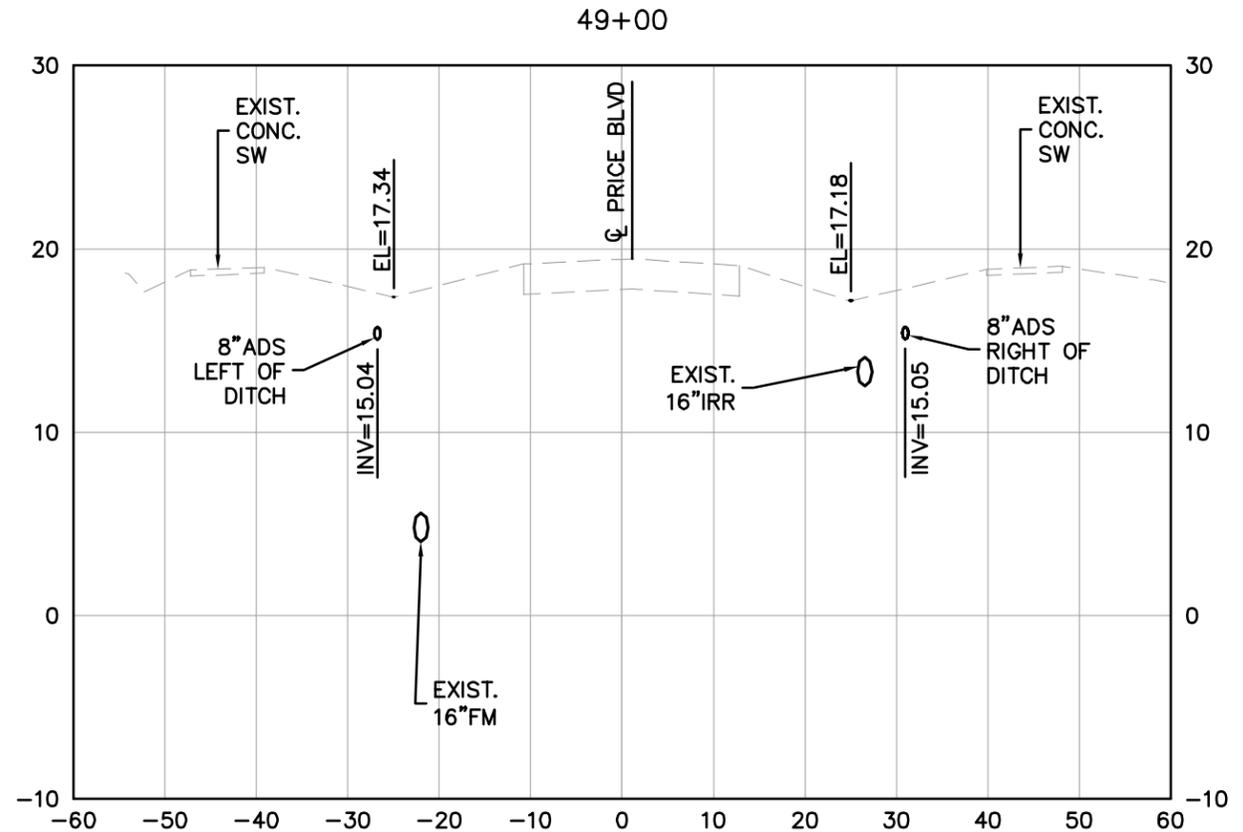
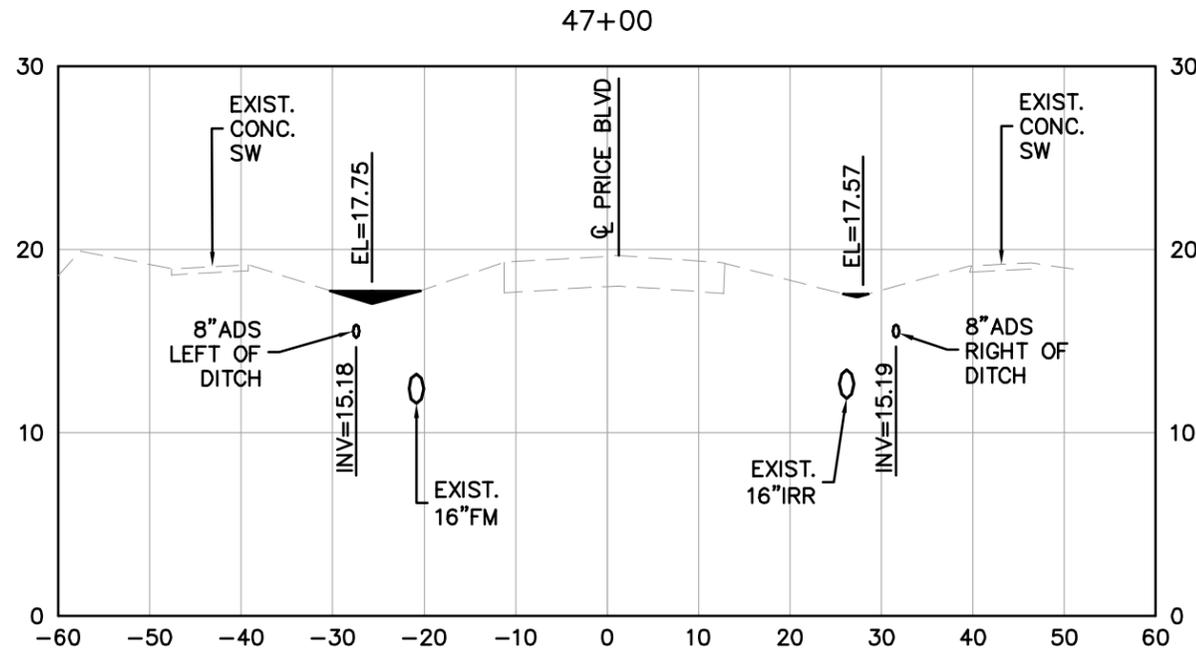
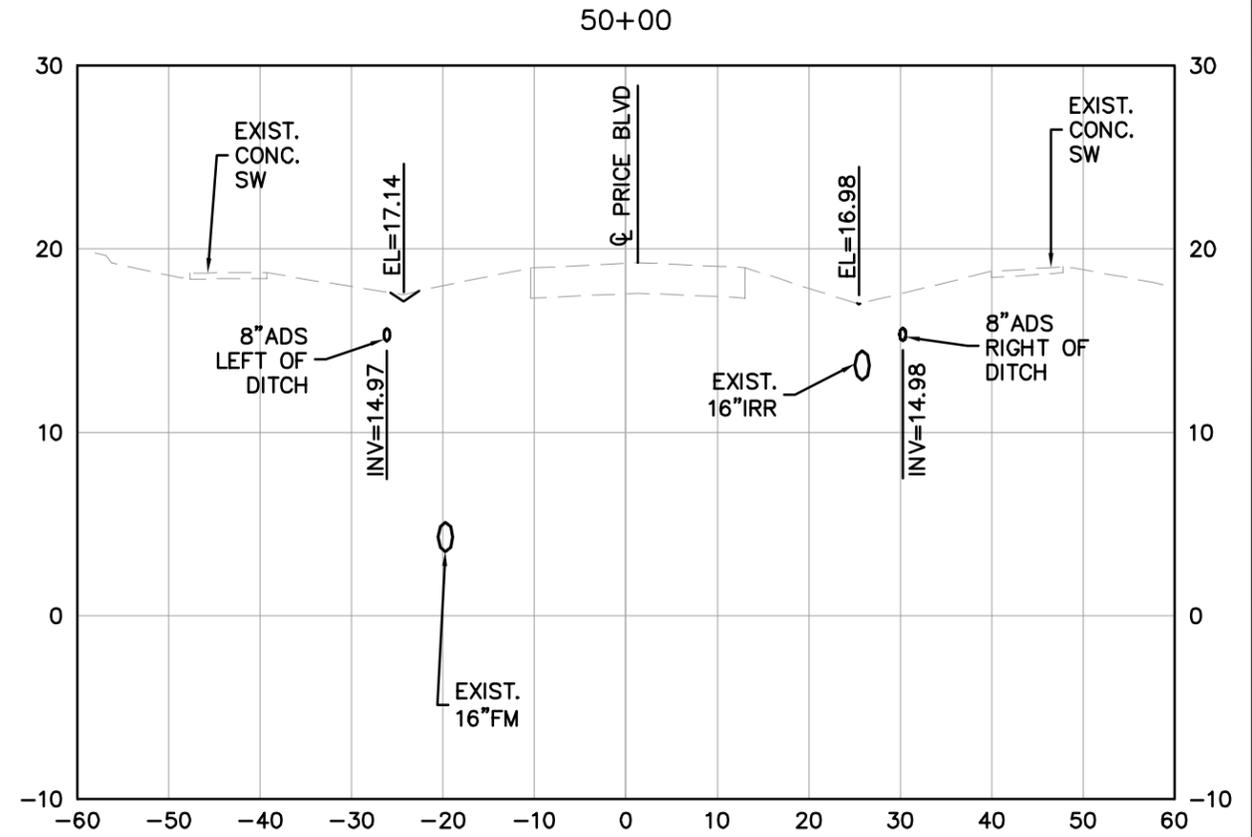
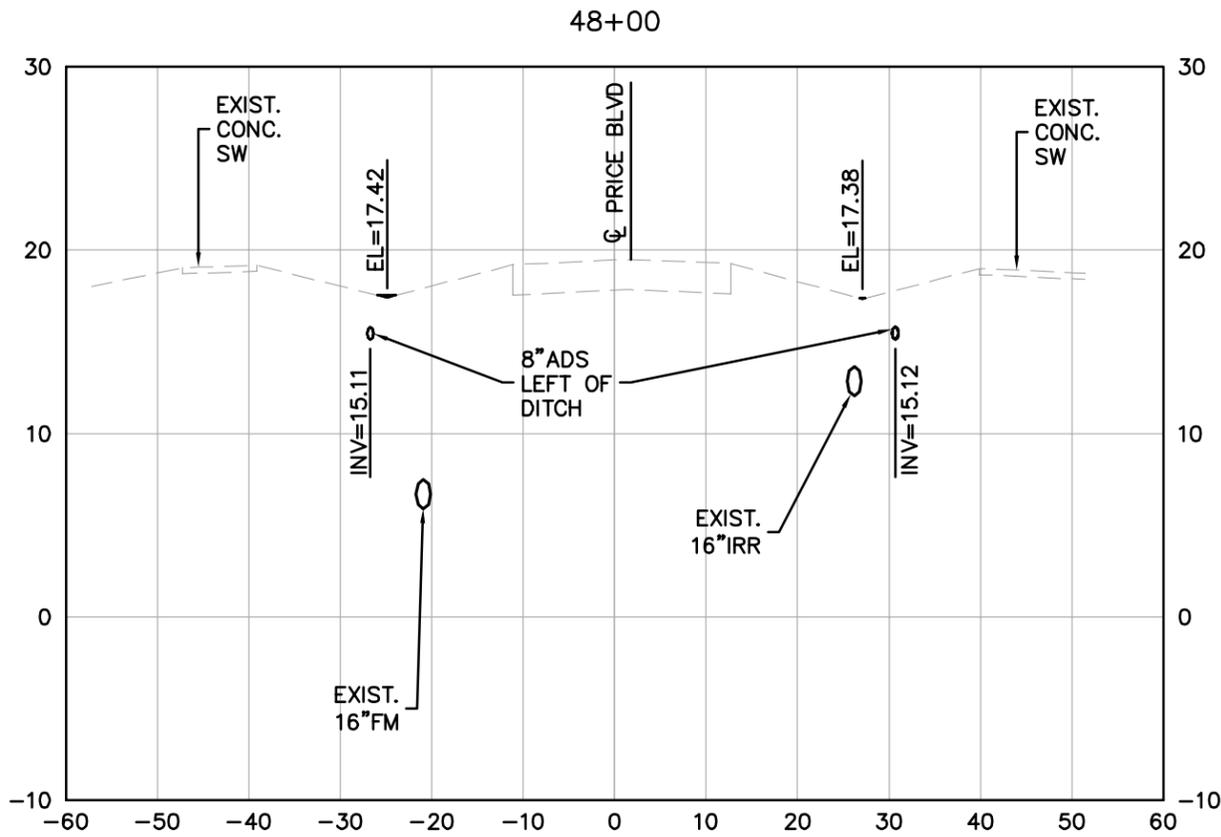
Plotted By: Luro, Corina Sheet Set: PriceBlvd-Underdrain Layout: C-8 February 05, 2015 06:08:30pm K:\SAR_Roadway\048285019_Summit_3A_CIVIL\CADD\PlanSheets\UnderDrain\C-8 DitchCrossSections.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Future use and/or modification of this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



SCALE: HORZ. 1"=20'
VERT. 1"=10'

Kimley»Horn		<small>© 2015 KIMLEY-HORN AND ASSOCIATES, INC. 1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236 PHONE: 941-379-7600 FAX: 941-379-4352 WWW.KIMLEY-HORN.COM CA 0000696</small>	
KHA PROJECT 048285019	LICENSED PROFESSIONAL PETER T. VAN BUSKIRK	DATE JAN 2015	FLORIDA LICENSE NUMBER 36859
DITCH CROSS SECTIONS		SCALE AS SHOWN	CHECKED BY
PRICE BLVD DITCH IMPROVEMENTS		DESIGNED BY	DATE
PREPARED FOR		SARASOTA COUNTY FLORIDA	
CITY OF NORTH PORT		REVISIONS	
SHEET NUMBER C-8		No.	DATE

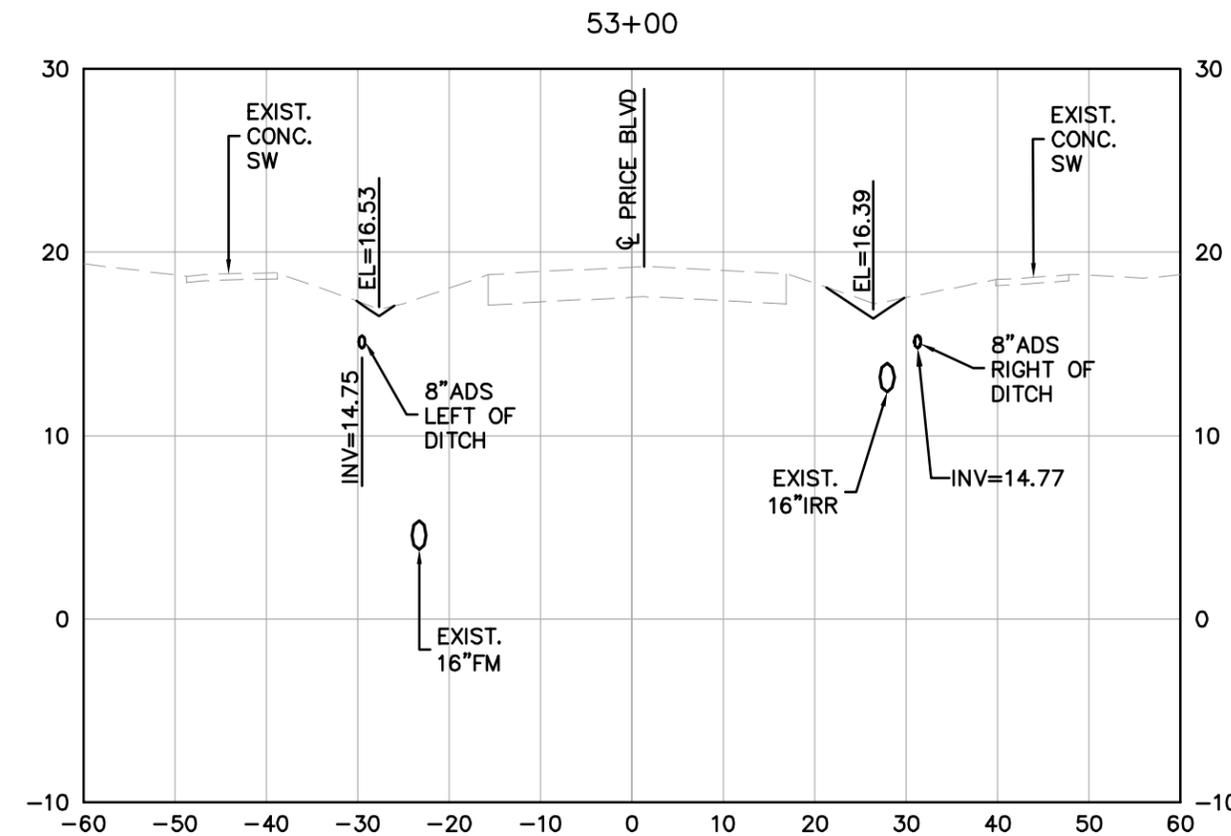
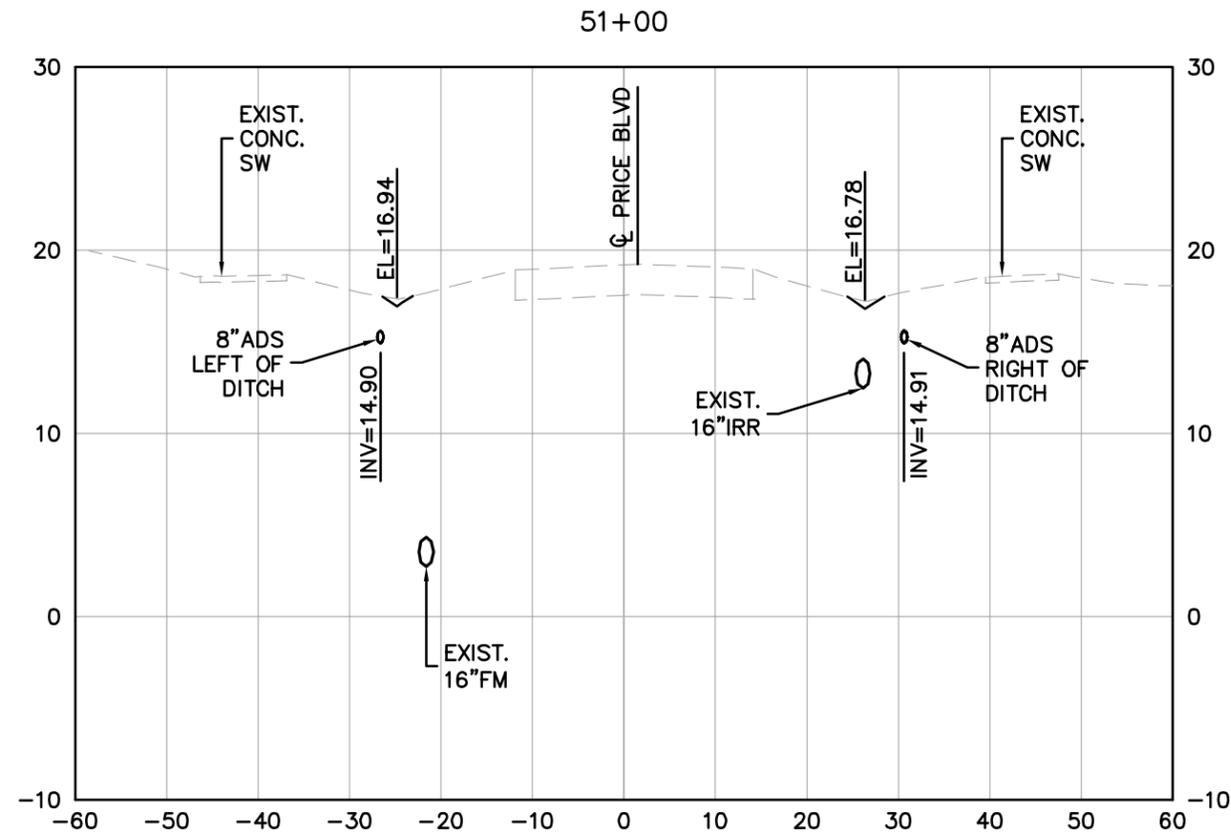
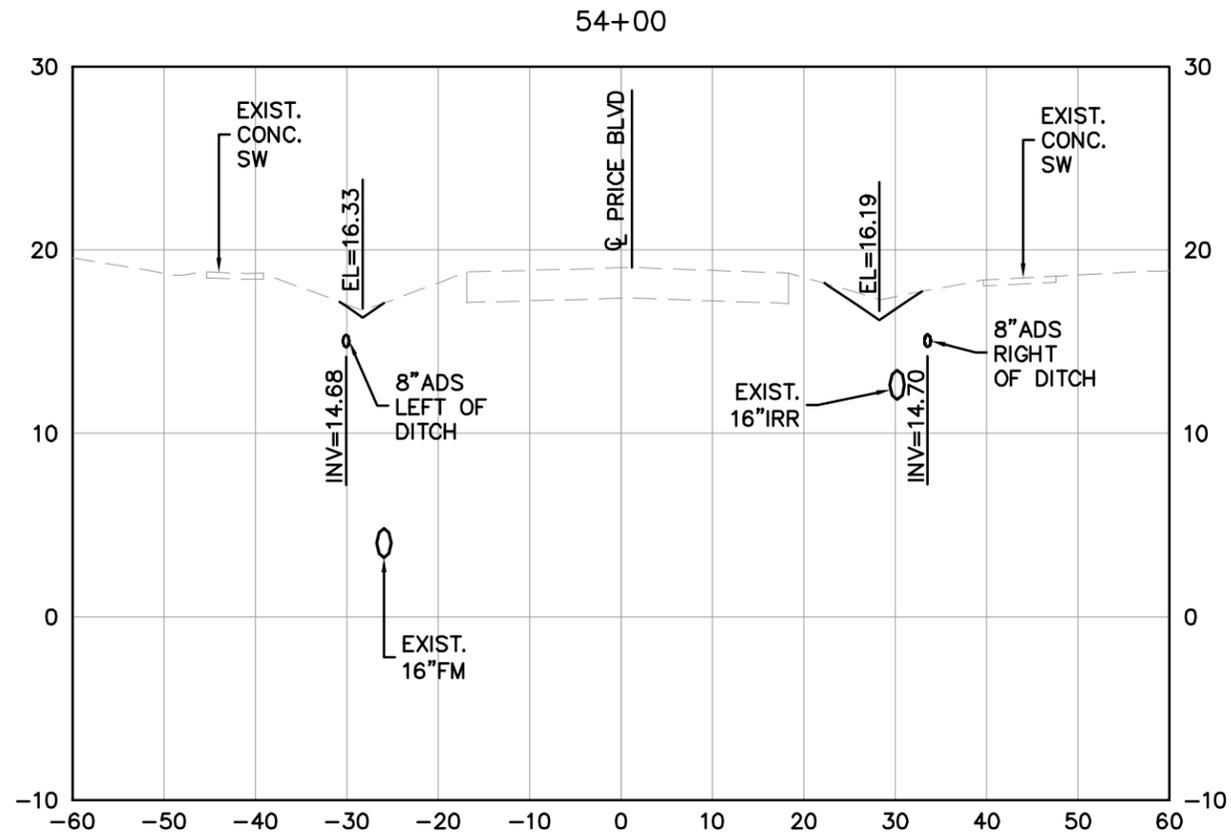
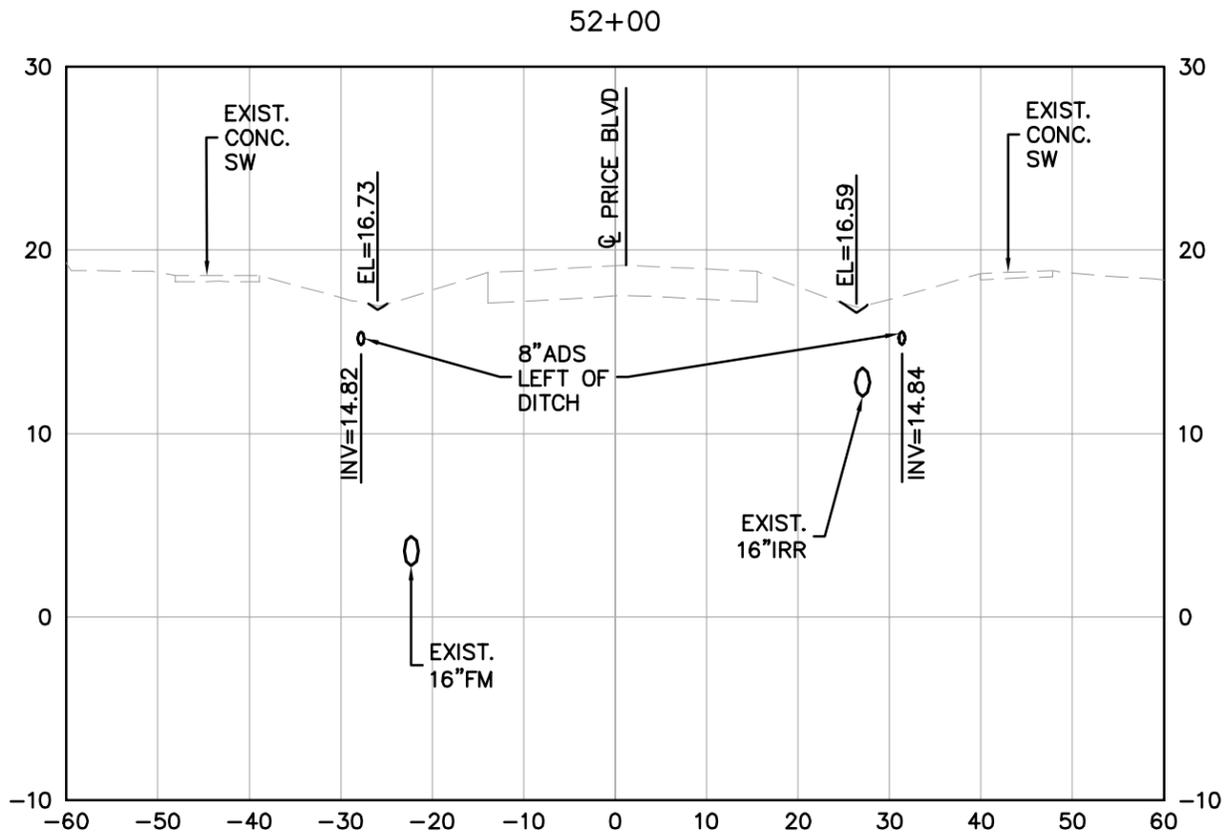
Plotted By: Luro, Corina Sheet Set: Price Blvd - Underdrain Layout: C-9 February 05, 2015 06:08:48pm K:\SAR_Roadway\048285019_Summit_3A_CIVIL\CAD\PlanSheets\UnderDrain\C-9 DitchCrossSections.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Future use and/or modification of this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



SCALE: HORZ. 1"=20'
 VERT. 1"=10'

Kimley»Horn		<small>© 2015 KIMLEY-HORN AND ASSOCIATES, INC. 1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236 PHONE: 941-379-7600 FAX: 941-379-4352 WWW.KIMLEY-HORN.COM CA 0000696</small>	
KHA PROJECT 048285019	LICENSED PROFESSIONAL PETER T. VAN BUSKIRK	DATE JAN 2015	REVISIONS
SCALE AS SHOWN	FLORIDA LICENSE NUMBER 38859	DESIGNED BY	DATE
DRAWN BY	CHECKED BY	NO.	BY
PRICE BLVD DITCH IMPROVEMENTS		DITCH CROSS SECTIONS	
PREPARED FOR CITY OF NORTH PORT		FLORIDA	
SARASOTA COUNTY		SHEET NUMBER C-9	

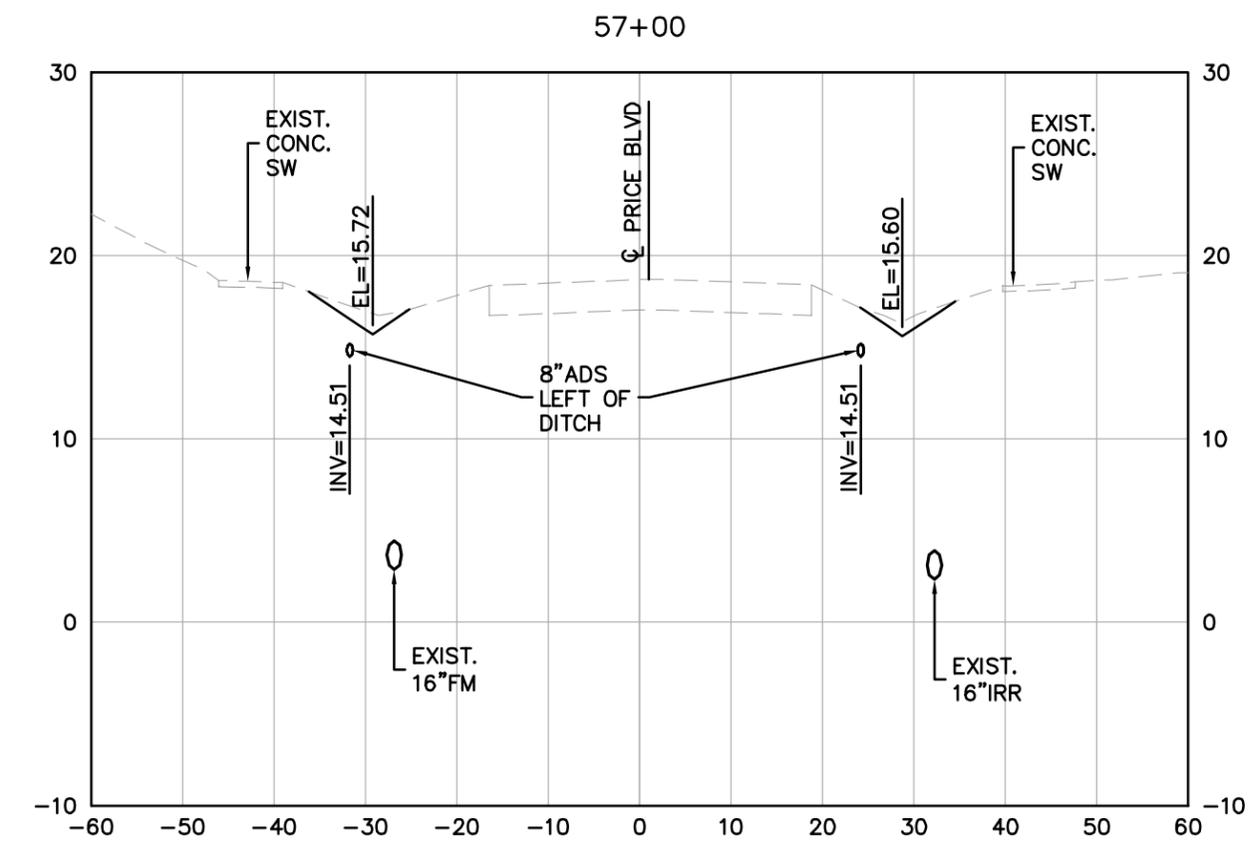
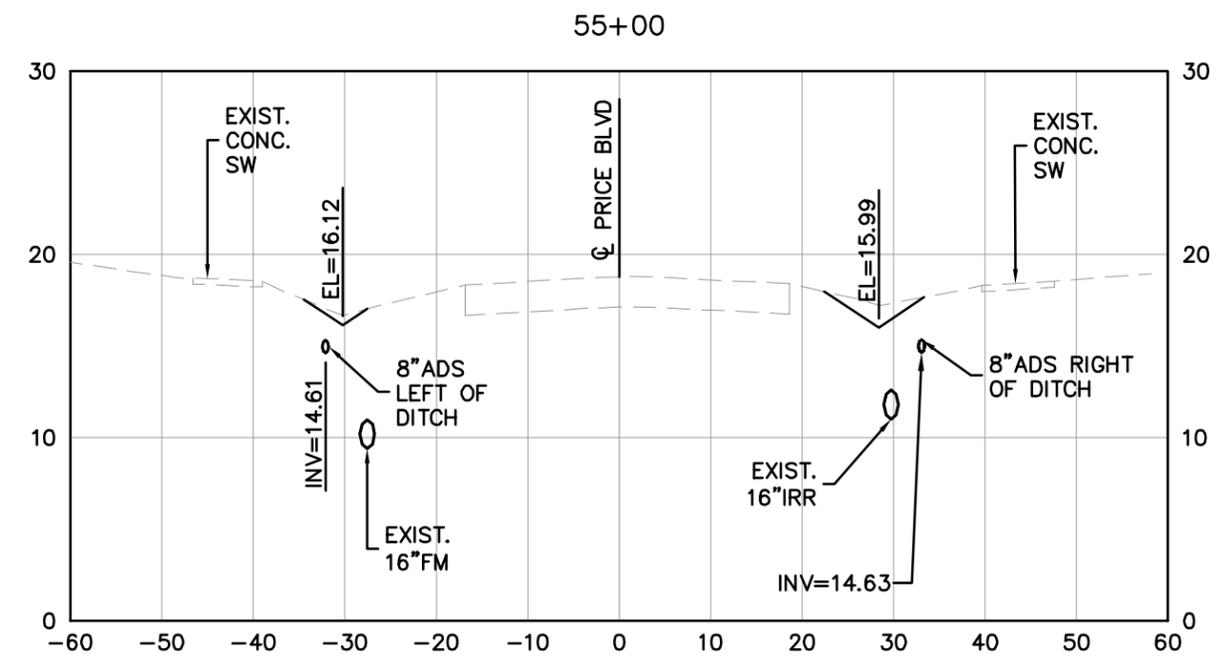
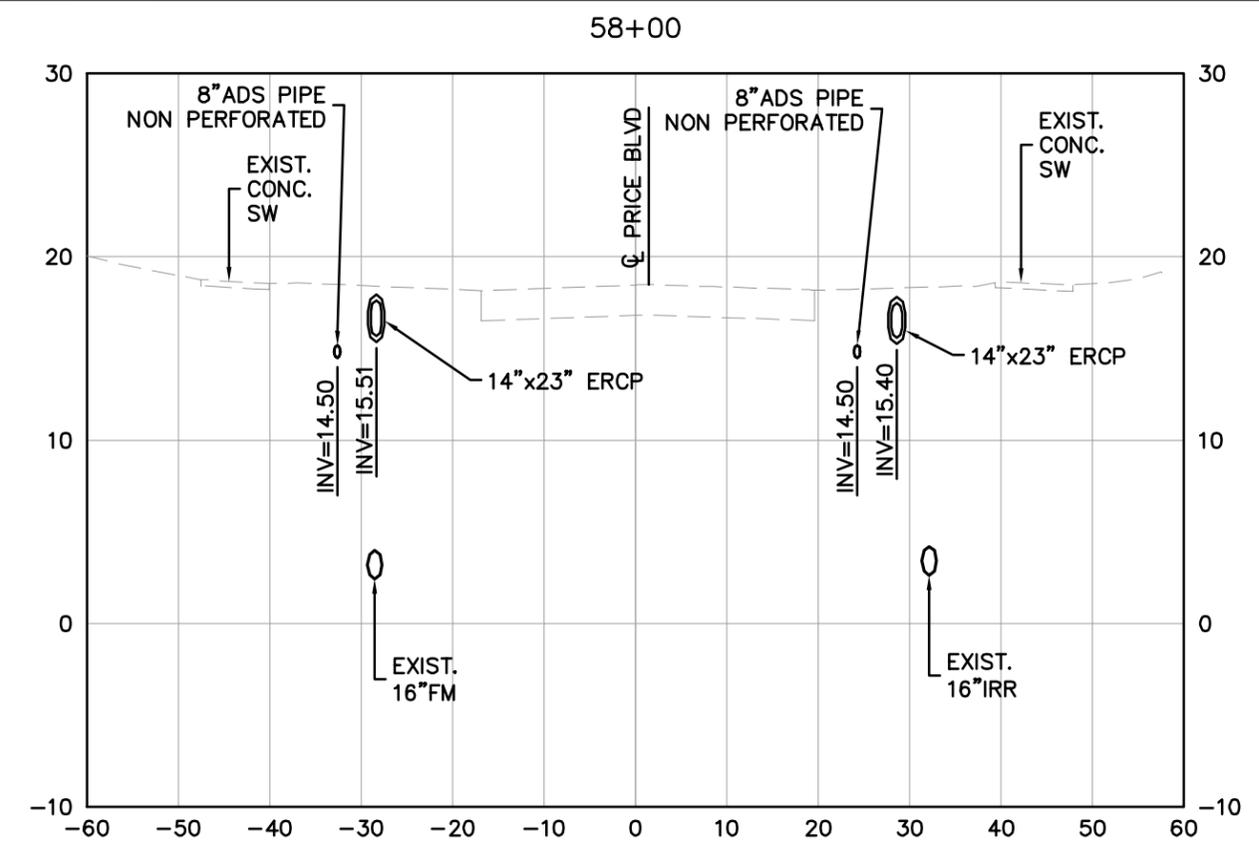
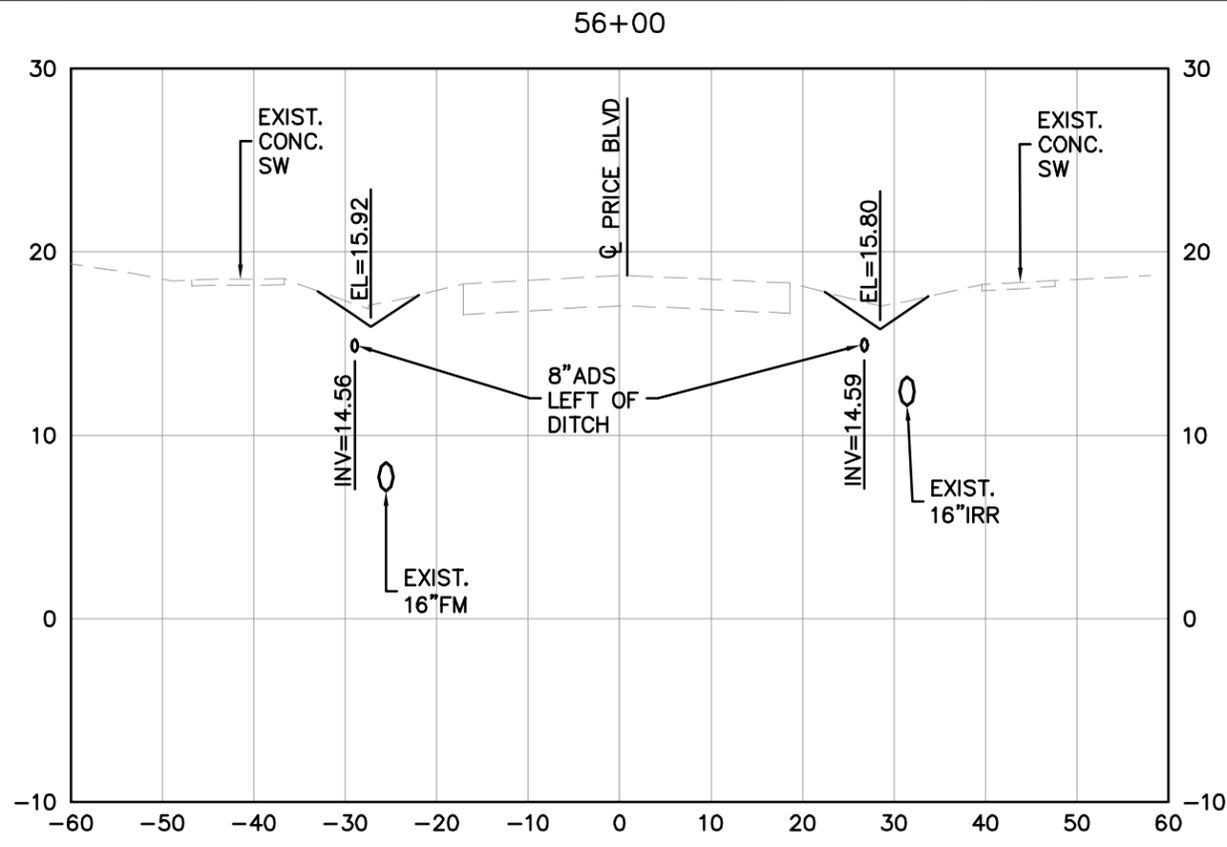
Plotted By: Luro, Corina Sheet Set: Price Blvd - Underdrain Layout: C-10 February 05, 2015 06:09:03pm K:\SABE_Roadway\048285.dwg Summer 3A_C:\CIVIL\CAD\DrawSheets\Underdrain\C-10_B_DitchCrossSections.dwg
 This document, together with the concepts and designs presented herein, is an instrument of service, and its use is limited to the specific project and site for which it was prepared. Reuse or improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



SCALE: HORZ. 1"=20'
VERT. 1"=10'

Kimley & Horn	
© 2015 KIMLEY-HORN AND ASSOCIATES, INC. 1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236 PHONE: 941-379-7600 FAX: 941-379-4352 WWW.KIMLEY-HORN.COM CA 0000696	
LICENSED PROFESSIONAL PETER T. VAN BUSKIRK FLORIDA LICENSE NUMBER 38859	DATE: _____ No. _____ REVISIONS _____
KHA PROJECT 048285019 DATE JAN 2015 SCALE AS SHOWN DESIGNED BY _____ DRAWN BY _____ CHECKED BY _____	
DITCH CROSS SECTIONS	
PRICE BLVD DITCH IMPROVEMENTS PREPARED FOR CITY OF NORTH PORT SARASOTA COUNTY FLORIDA	
SHEET NUMBER C-10	

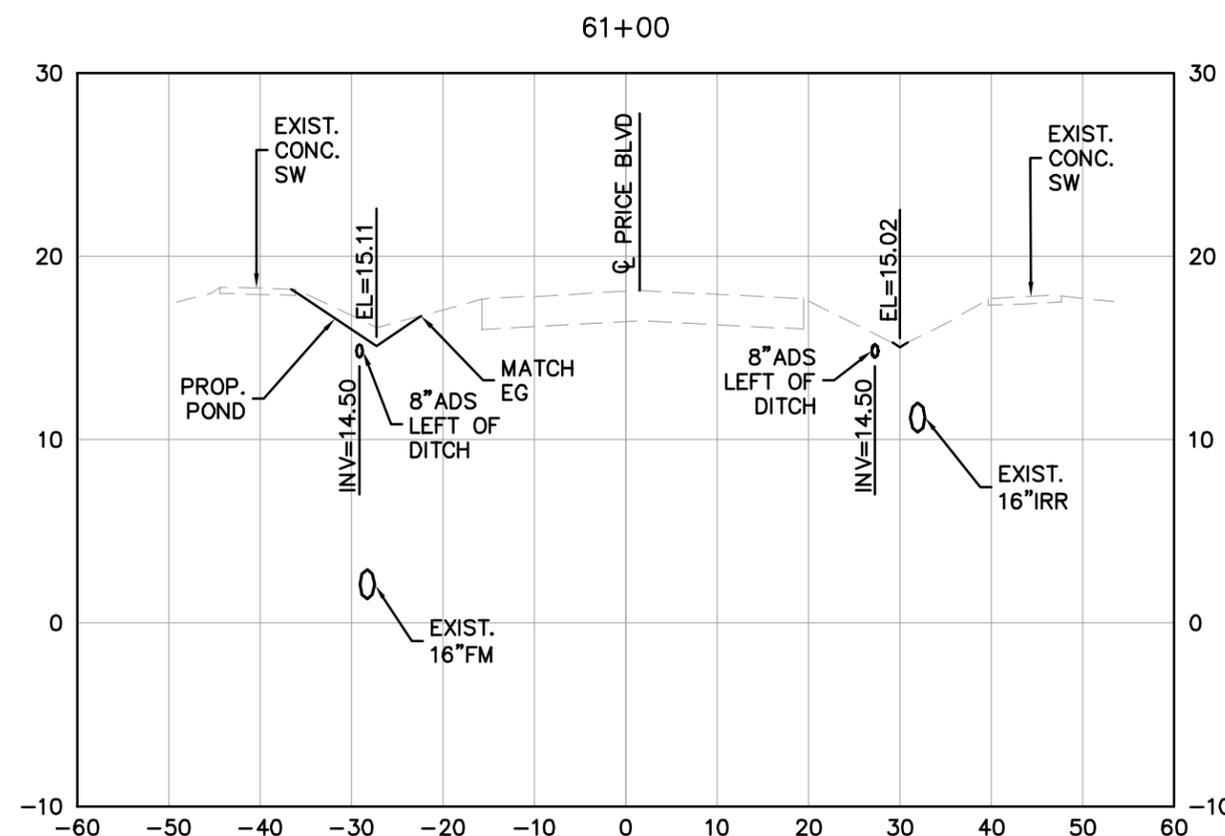
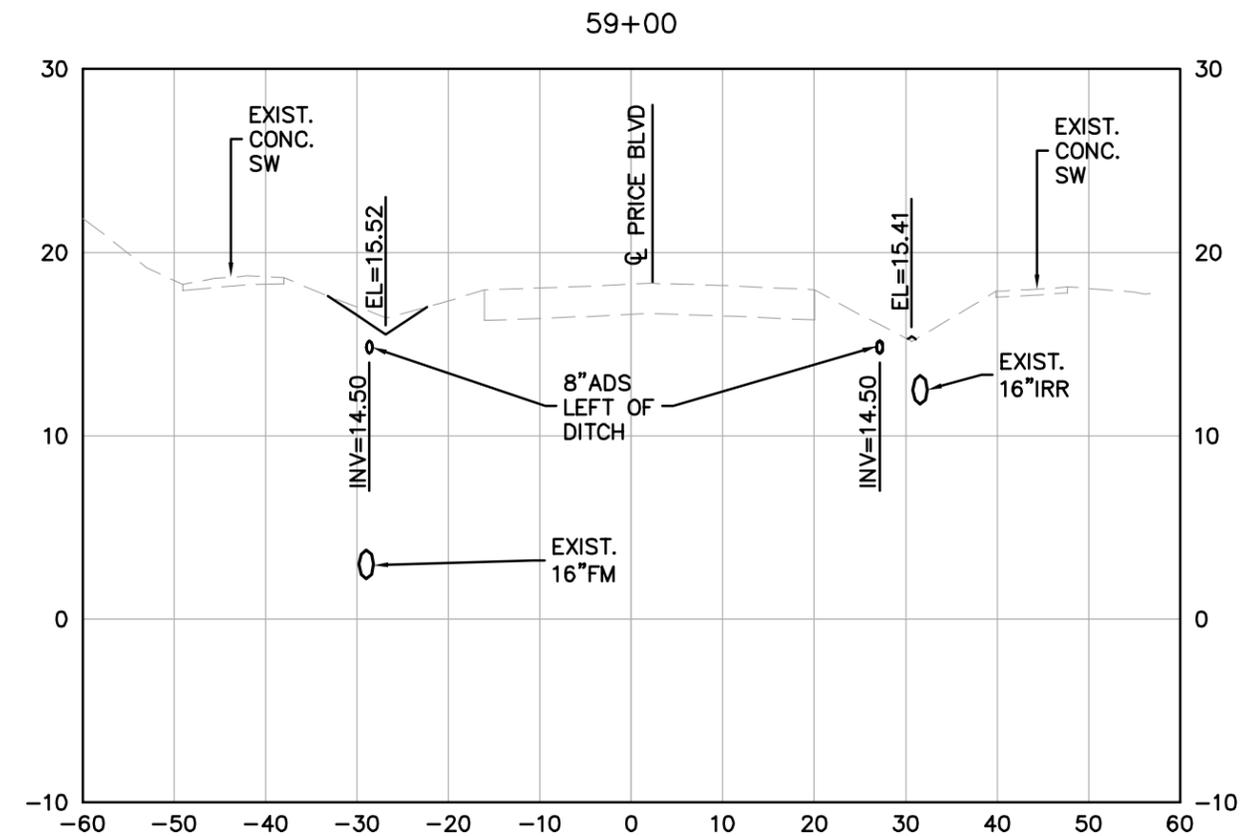
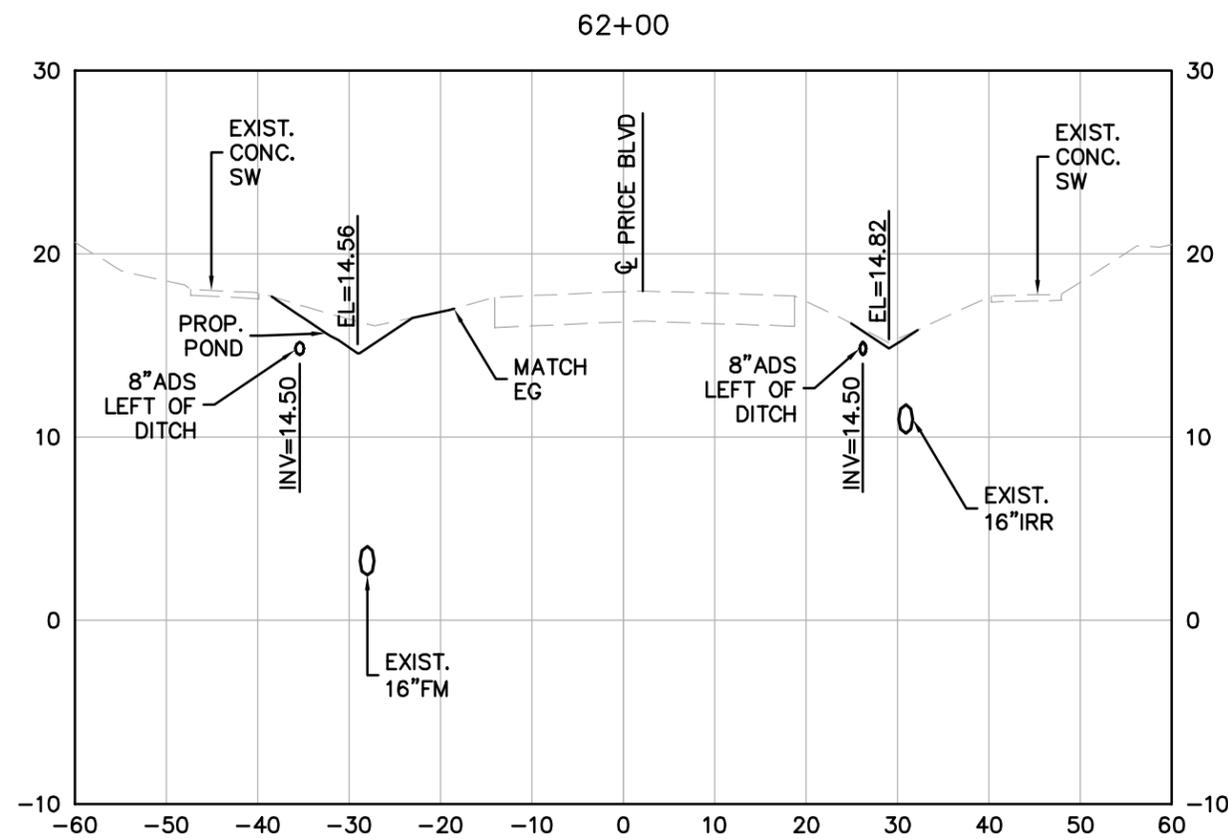
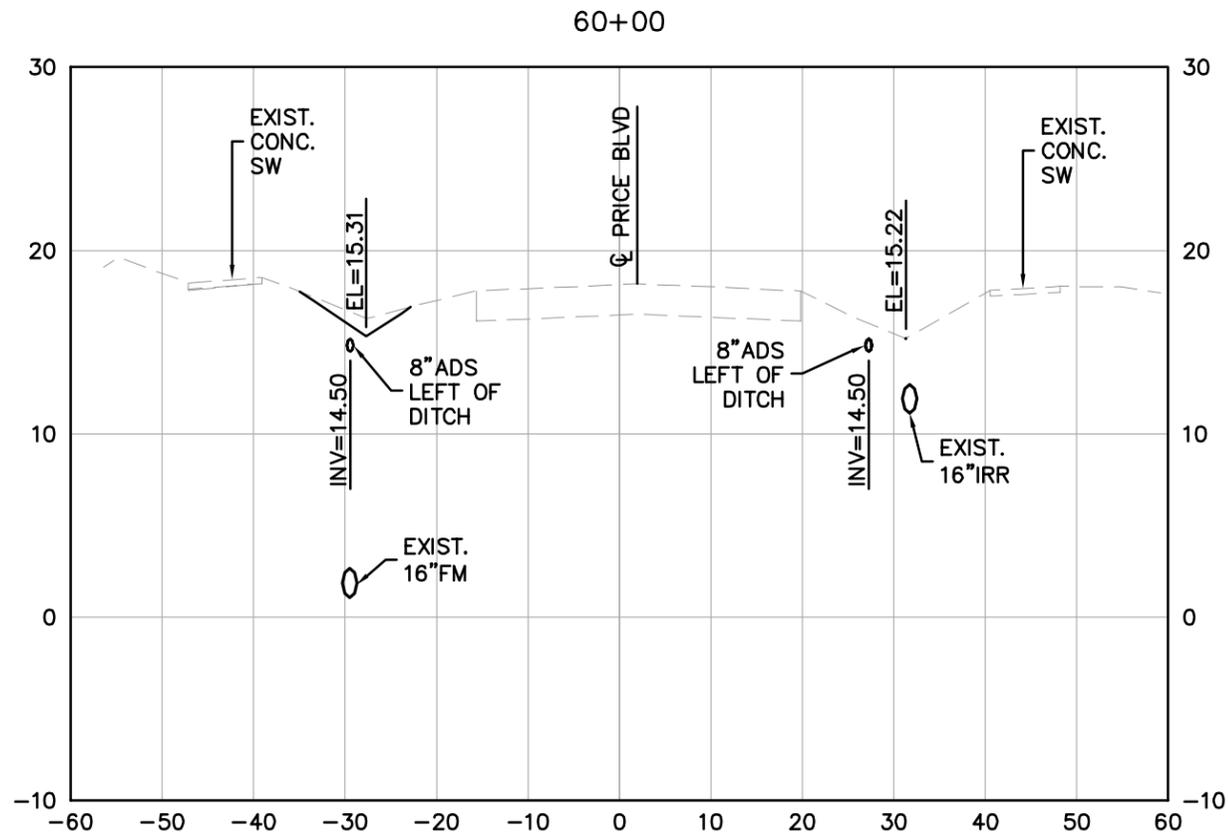
Plotted By: Luro, Corina Sheet Set: Price Blvd - Underdrain Layout: C-11 February 05, 2015 08:09:16pm K:\SAR_Roadway\04825019_Sumlar_3A_C\CIVIL\CADD\PlanSheets\UnderDrain\C-8_DitchCrossSections.dwg
 This document, together with the concepts and designs presented herein, is an instrument of service, and its use is limited to the specific project and client for which it was prepared. Release or improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



SCALE: HORZ. 1"=20'
VERT. 1"=10'

Kimley-Horn		<small>© 2015 KIMLEY-HORN AND ASSOCIATES, INC. 1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236 PHONE: 941-379-7600 FAX: 941-379-4352 WWW.KIMLEY-HORN.COM CA 0000696</small>	
KHA PROJECT 04825019	LICENSED PROFESSIONAL PETER T. VAN BUSKIRK	DATE JAN 2015	REVISIONS
SCALE AS SHOWN	FLORIDA LICENSE NUMBER 36859	CHECKED BY	DATE
DITCH CROSS SECTIONS		FLORIDA	
PRICE BLVD DITCH IMPROVEMENTS		SARASOTA COUNTY	
PREPARED FOR CITY OF NORTH PORT		DATE	
SHEET NUMBER C-11		BY	

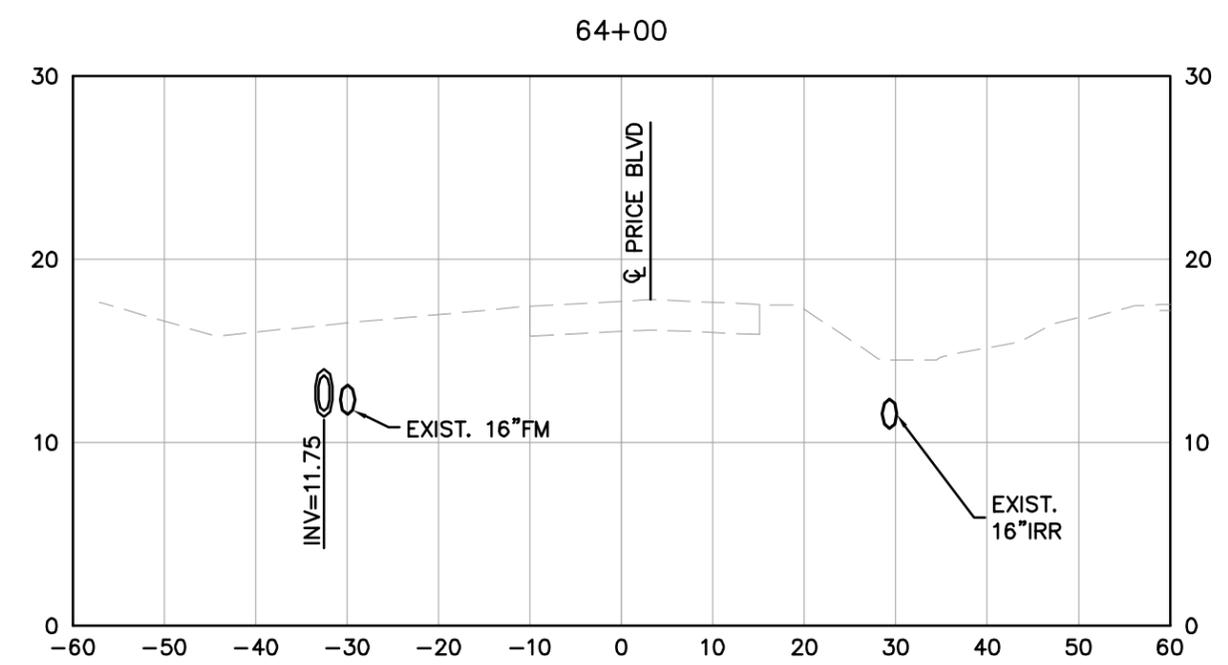
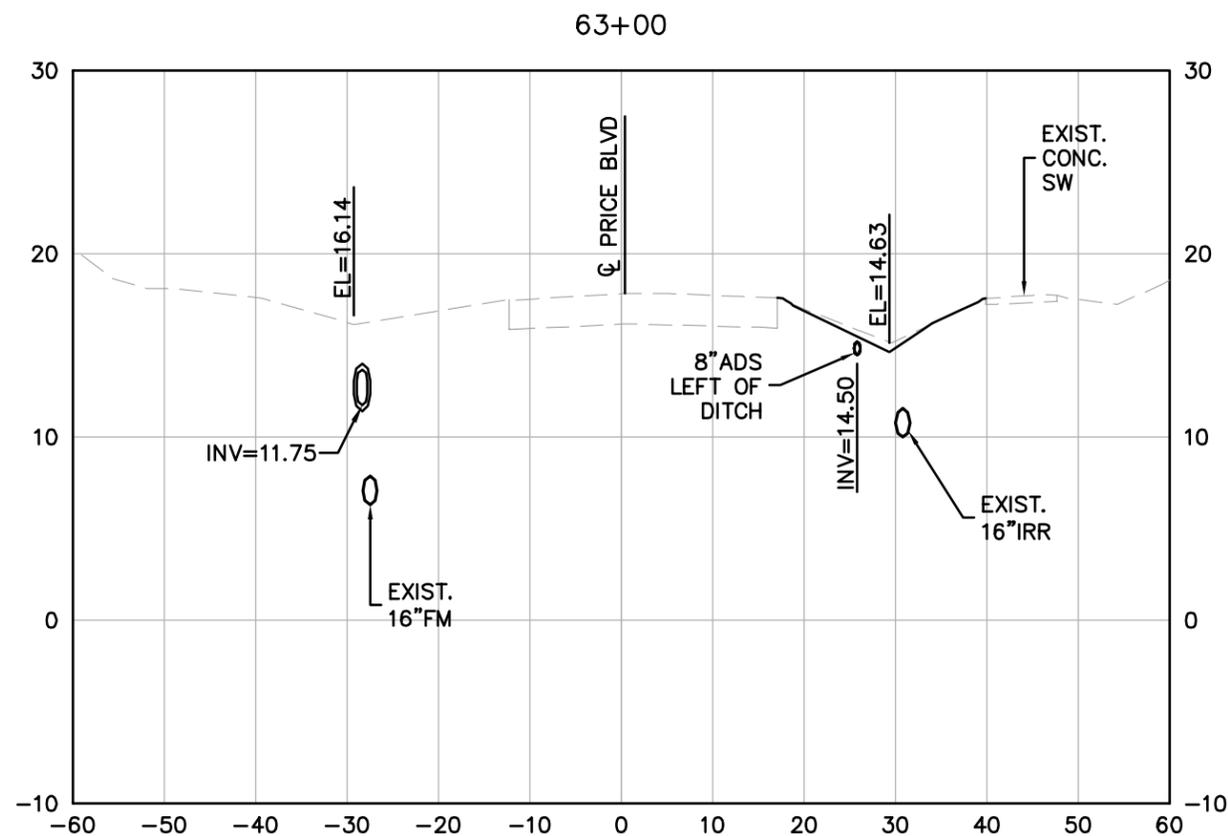
Plotted By: Luro, Corina. Sheet Set: PriceBlvd-Underdrain. Layout: C-12. February 05, 2015. 06:09:31pm. K:\SAB_Rockney\048285\019_Sumter_3A_CIVIL\CAD\PlanSheets\UnderDrain\C-12-DitchCrossSections.dwg
 This document, together with the concepts and designs presented herein, is an instrument of service, as an instrument of service, and shall be without liability to Kimley-Horn and Associates, Inc.



SCALE: HORZ. 1"=20'
VERT. 1"=10'

		LICENSED PROFESSIONAL PETER T. VAN BUSKIRK FLORIDA LICENSE NUMBER 38859	
		DATE: _____	
KHA PROJECT 048285019	DATE JAN 2015	DITCH CROSS SECTIONS	
SCALE AS SHOWN	DESIGNED BY		
DRAWN BY	CHECKED BY		
PRICE BLVD DITCH IMPROVEMENTS PREPARED FOR CITY OF NORTH PORT SARASOTA COUNTY FLORIDA		SHEET NUMBER C-12	
		REVISIONS	DATE
		No.	BY

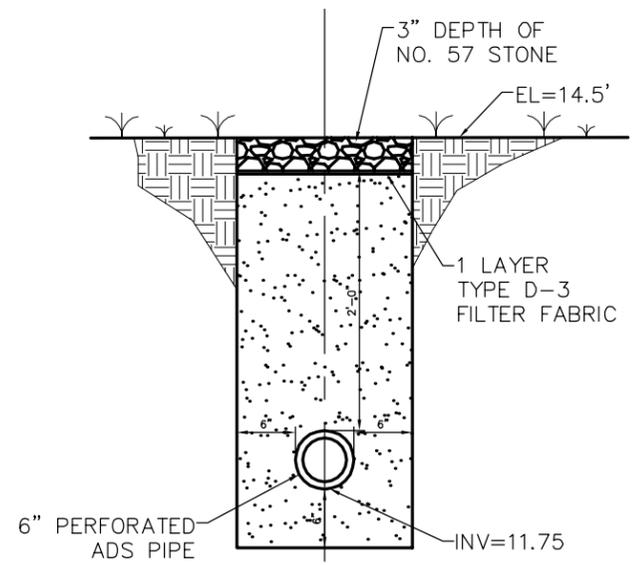
Plotted By: Luro, Corina Sheet Set: PriceBlvd-Underdrain Layout-C-13 February 05, 2015 06:09:45pm K:\SAB_Roadway\048285\019_Sumter_3A_CAD\CIVIL\CAD_PlanSheets\UnderDrain\C-8_DitchCrossSections.dwg
 This document, together with the concepts and designs presented herein, is an instrument of service, and its use is limited to the specific project and site for which it was prepared. Reuse or improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



SCALE: HORZ. 1"=20'
 VERT. 1"=10'

PRICE BLVD DITCH IMPROVEMENTS PREPARED FOR CITY OF NORTH PORT SARASOTA COUNTY FLORIDA	DITCH CROSS SECTIONS		KHA PROJECT 048285019	LICENSED PROFESSIONAL PETER T. VAN BUSKIRK FLORIDA LICENSE NUMBER 38859	Kimley»Horn <small>© 2015 KIMLEY-HORN AND ASSOCIATES, INC. 1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236 PHONE: 941-379-7600 FAX: 941-379-4352 WWW.KIMLEY-HORN.COM CA 0000696</small>
	DATE JAN 2015	DATE _____	SCALE AS SHOWN DESIGNED BY DRAWN BY CHECKED BY	No. _____ REVISIONS DATE BY	
SHEET NUMBER C-13					

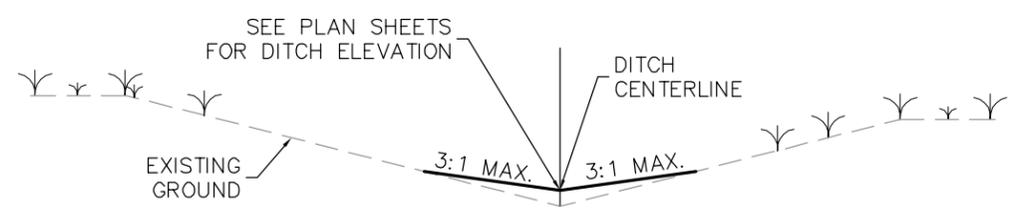
Plotted By: Lugo, Carlos. Sheet Set: Price Blvd - Underdrain. Layout: C-14. February 05, 2015. 06:10:03pm. K:\SAR_Bocook\048285\019_Sumter_3A_CIVIL\CAD\PlanSheets\UnderDrain\C-14_TYPICAL_DETAIL_S.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Review of and proper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



- NOTES:
1. FILTER MATERIAL TO BE OF A FINE GRANULAR MEDIA, TO BE OF A UNIFORM COEFFICIENT OF 1.5 OR GREATER AND HAVE AN EFFECTIVE GRAIN SIZE OF 0.20 TO 0.55 MILLIMETERS. NO LIMEROCK OR SHELL MATERIAL CAN BE USED AS FILTER MEDIA. FILTER MEDIA MUST HAVE A MINIMUM PERMEABILITY OF $K=3.75$ ft/hr.
 2. CONTRACTOR SHALL SUPPLY TO THE ENGINEER OF RECORD A CONDUCTIVITY ANALYSIS OF THE FILTER MATERIAL DELIVERED TO THE SITE PRIOR TO CONSTRUCTION OF THE SIDEDRAIN. ANALYSIS SHALL BE CERTIFIED BY A PROFESSIONAL SOILS ENGINEER.
 3. CALCIUM CARBONATE IS NOT AN ACCEPTABLE FILTER MATERIAL.

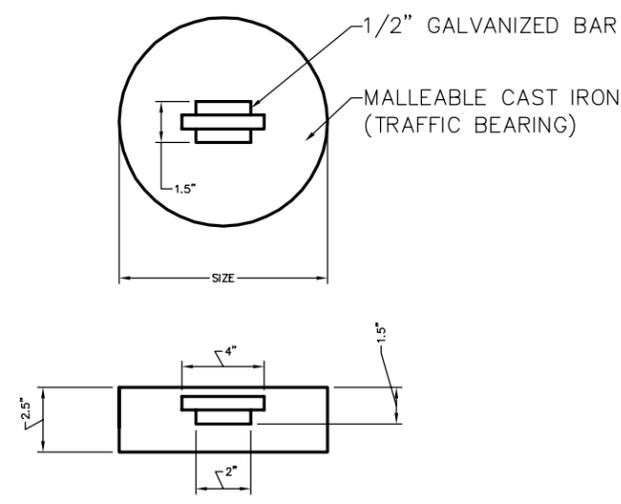
TYPICAL UNDERDRAIN

N.T.S.

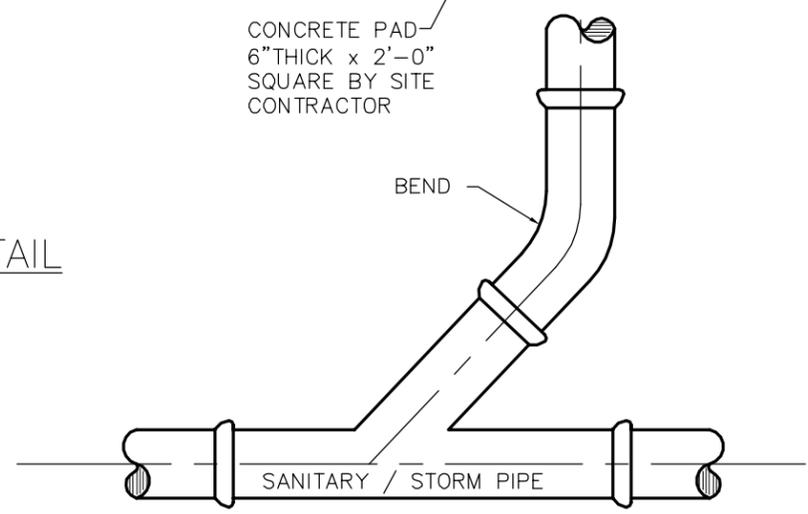
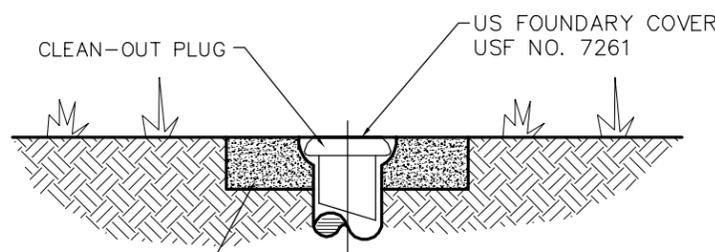


TYPICAL DITCH GRADING

N.T.S.

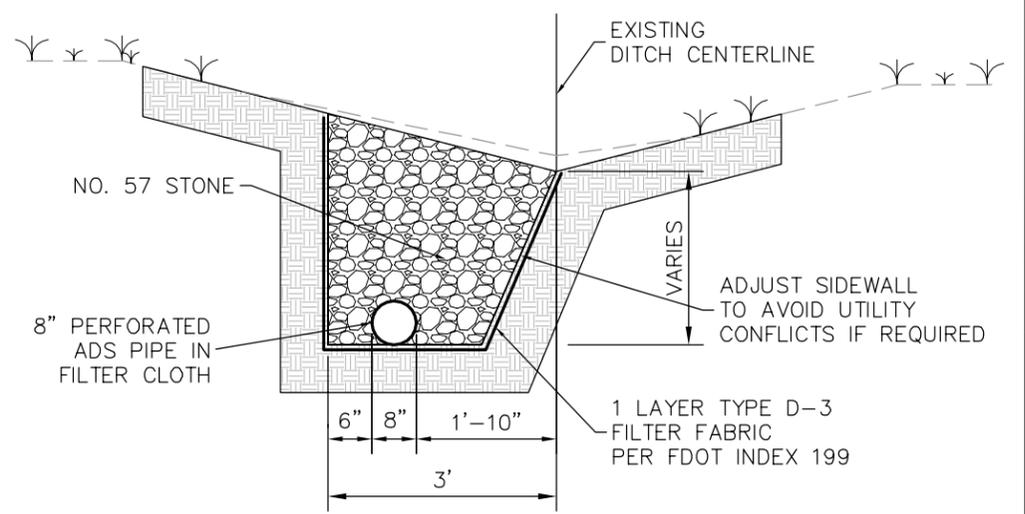


CLEANOUT PLUG DETAIL



CLEANOUT DETAILS

N.T.S.



GRAVEL TRENCH DRAIN DETAIL (TYPICAL LEFT AND RIGHT SIDE)

N.T.S.

KHA PROJECT 048285019	DATE JAN 2015	SCALE AS SHOWN	DESIGNED BY PETER T. VAN BUSKIRK	DRAWN BY 38859	CHECKED BY DATE: _____	LICENSED PROFESSIONAL PETER T. VAN BUSKIRK FLORIDA LICENSE NUMBER 38859	© 2015 KIMLEY-HORN AND ASSOCIATES, INC. 1777 MAIN STREET, SUITE 200, SARASOTA, FL 34236 PHONE: 941-379-7600 FAX: 941-379-4352 WWW.KIMLEY-HORN.COM CA 0000696
TYPICAL DETAILS							REVISIONS No. _____ DATE _____ BY _____
PRICE BLVD DITCH IMPROVEMENTS PREPARED FOR CITY OF NORTH PORT SARASOTA COUNTY FLORIDA							SHEET NUMBER C-14

