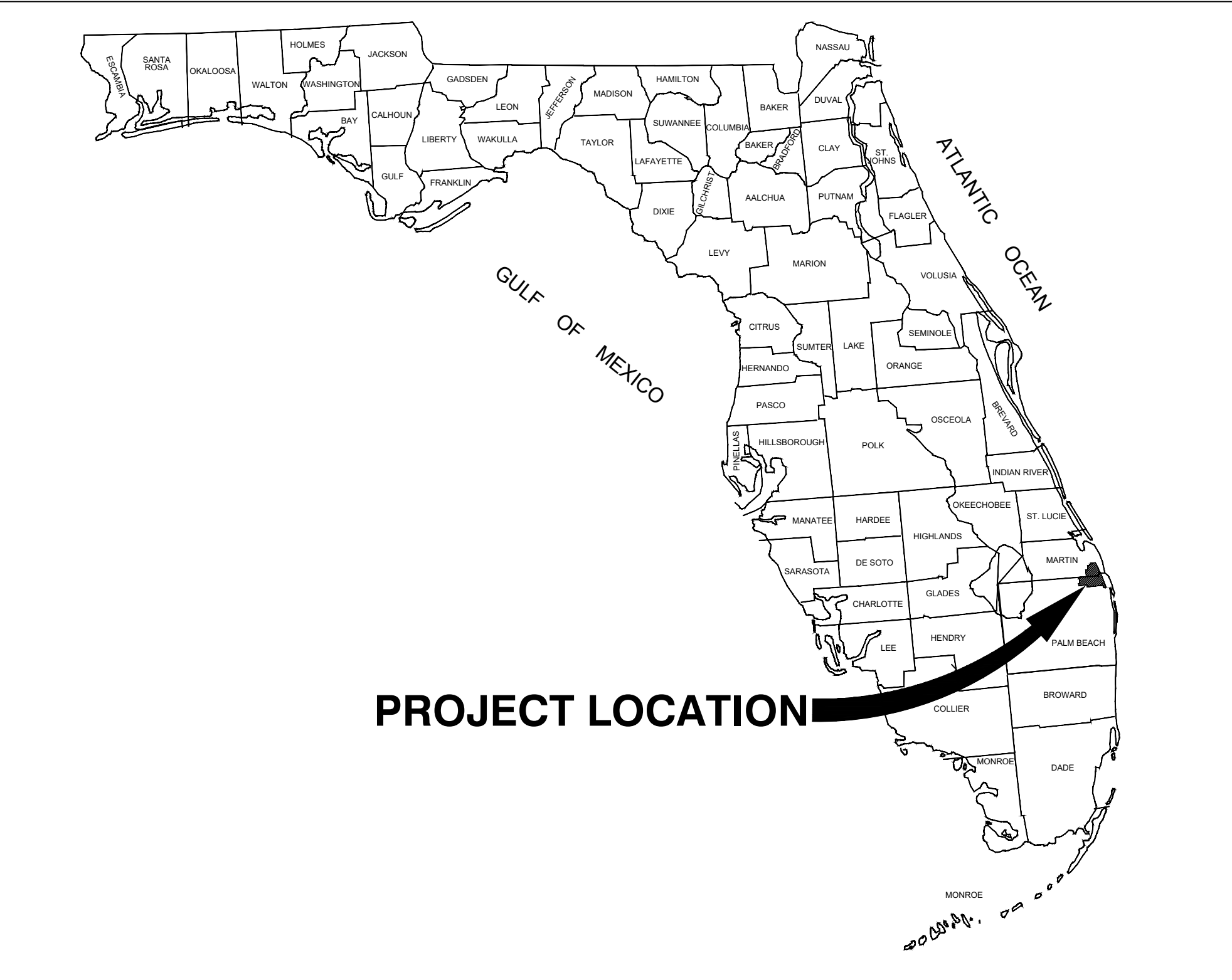
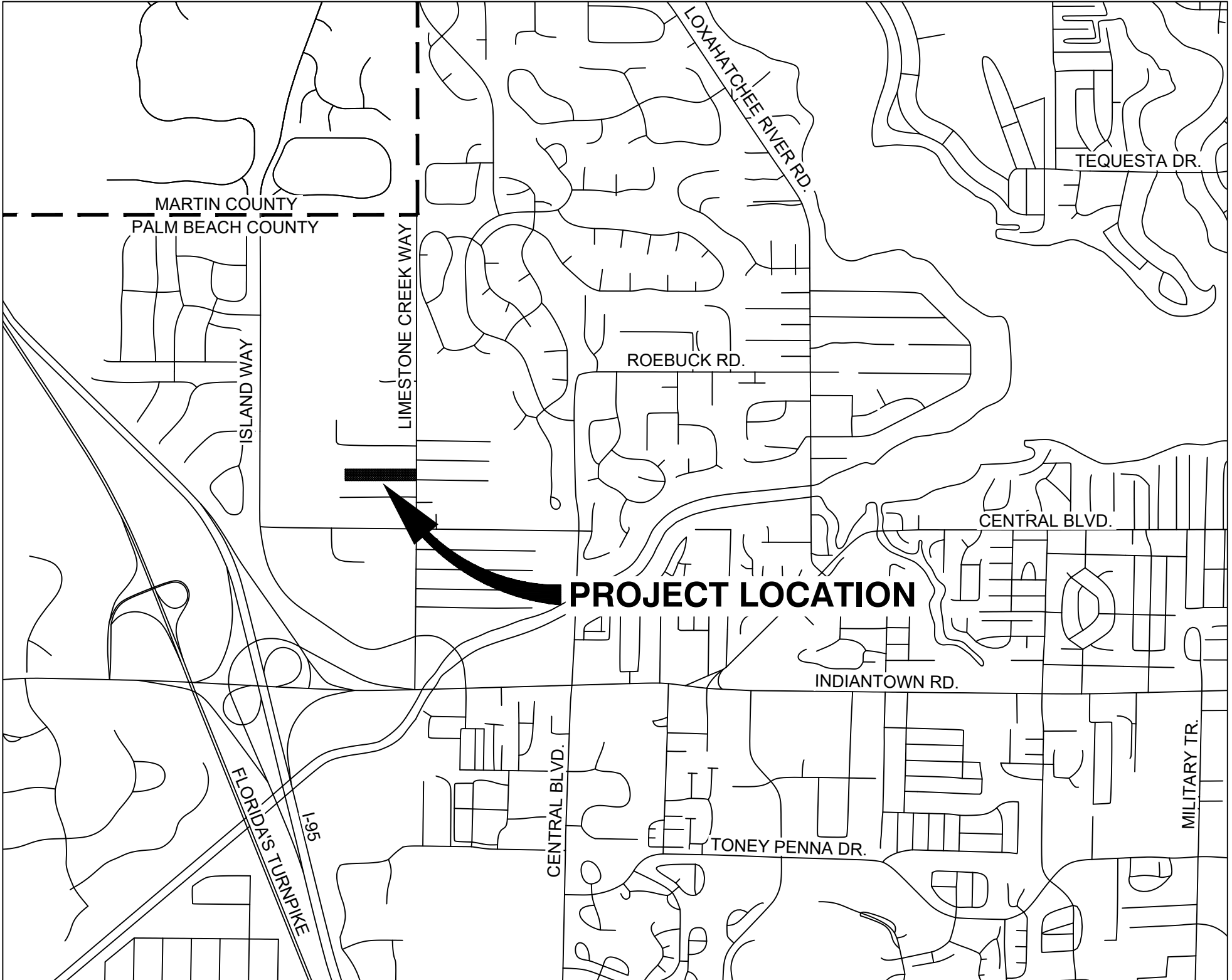


CONSTRUCTION PLANS AND SPECIFICATIONS
FOR
LOXAHATCHEE RIVER DISTRICT
181ST STREET NEIGHBORHOOD
GRAVITY SEWER SYSTEM

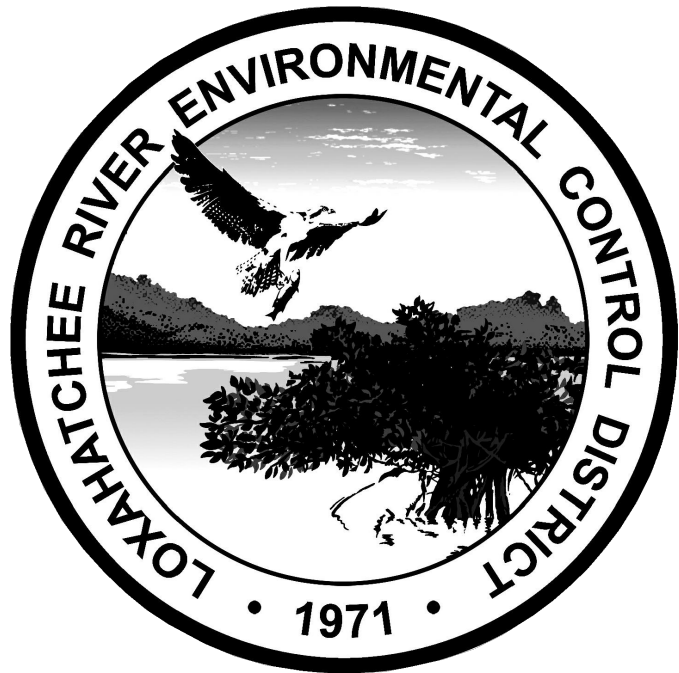
JANUARY 2019



VICINITY MAP
N.T.S.



181ST STREET
N.T.S.



INDEX OF SHEETS

SHEET #	DESCRIPTION
KS	LEGEND
G3	KEY SHEET
WW-1	SEWER PLAN
WW-2	SEWER PLAN
WW-3	SEWER PLAN
D-1	STANDARD DETAILS
D-2	STANDARD DETAILS
D-3	STANDARD DETAILS

SURVEY NOTES:

- THIS SKETCH OF A TOPOGRAPHIC SURVEY WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OF PRACTICE FOR SURVEYING ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODES, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.
- THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
- A SEARCH OF THE PUBLIC RECORDS FOR OWNERSHIP, EASEMENTS, RIGHTS-OF-WAY, OR OTHER MATTERS OF RECORD WAS NOT PERFORMED BY BAXTER & WOODMAN, INC. THERE MAY BE ADDITIONAL INFORMATION RECORDED IN THE PUBLIC RECORDS THAT IS NOT SHOWN HEREON. FOR FURTHER INFORMATION, CONTACT A QUALIFIED TITLE COMPANY OR CONSULT THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA
- THE BEARINGS SHOWN HEREON ARE BASED ON A BEARING BETWEEN CONTROL POINTS NGS MONUMENT JENKINS AND NGS MONUMENT T40 41S R42E SECS 3 4 33 34 BEING, N 01°49'23" E
- THE HORIZONTAL COORDINATES SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM (EAST ZONE), NORTH AMERICAN DATUM 1983/1990 ADJUSTMENT (N.A.D. 83/90). THE COORDINATES FOR EACH CONTROL POINT WERE ESTABLISHED BY UTILIZING GPS OBSERVATIONS.
- THE ELEVATIONS SHOWN HEREON ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
BENCHMARK :
POINT # NGS JENKINS ELEVATION 19.83 (NAVD 88)

CONVERSION NAVD 88 DATUM TO NGVD 29 DATUM = + 1.51'
- CERTAIN FEATURES ARE REPRESENTED BY THE SYMBOLS REFLECTED IN THIS MAP. THE LEGEND OF FEATURES MAY HAVE BEEN ENLARGED FOR CLARITY AND MAY NOT REPRESENT THE ACTUAL SHAPE OR SIZE OF THE FEATURE. THE SYMBOLS HAVE BEEN PLOTTED AT THE APPROXIMATE CENTER OF THE FEATURE BASED UPON THE FIELD LOCATION.
- THIS SKETCH IS NOT A BOUNDARY SURVEY.
- PLAT, LOT AND RIGHT-OF-WAY LINES SHOWN HEREON ARE FOR GRAPHICAL PURPOSES ONLY AND BASED ON PALM BEACH COUNTY GIS "MYGEONAV" BASE MAP LAYER. PLAT, LOT AND RIGHT-OF-WAY LINES SHOWN HEREON MAY VARY FROM ACTUAL OCCUPATION LIMITS ON THE GROUND.
- THIS SKETCH IS INTENDED TO BE DISPLAYED AT A HORIZONTAL SCALE OF 1 INCH = 20 FEET.
- THE HORIZONTAL ACCURACY FOR WELL DEFINED IMPROVEMENTS DEPICTED ON THIS SKETCH IS ONE-TENTH (0.1' ±) OF A FOOT, PLUS OR MINUS. THE VERTICAL (ELEVATIONS) ACCURACY FOR WELL DEFINED IMPROVEMENTS, FEATURES, AND SURFACES DEPICTED ON THIS SURVEY IS TWO-TENTHS (0.2' ±) OF A FOOT, PLUS OR MINUS.
- TREES, HEDGES, GROUND COVER, AND OTHER LANDSCAPE FEATURES ARE NOT SHOWN HEREON, UNLESS OTHERWISE NOTED.
- IRRIGATION FEATURES, SUCH AS SPRINKLERS, ARE NOT SHOWN HEREON.
- FENCES AND WALL DIMENSIONS ARE APPROXIMATE. THE SURVEYOR DID NOT DETERMINE OWNERSHIP OF FENCES AND WALLS.
- SUBSURFACE FEATURES ARE NOT SHOWN HEREON. THIS SITE COULD HAVE UNDERGROUND INSTALLATIONS THAT ARE NOT SHOWN HEREON. BEFORE DESIGN, CONSTRUCTION, OR EXCAVATION CONTACT 811 AND/OR THE APPROPRIATE UTILITY COMPANIES FOR FIELD VERIFICATION OF UTILITIES.
- THE EXTERIOR BUILDING DIMENSIONS SHOWN HEREON REPRESENT THE OVERALL SIZE OF THE BUILDING (FOOTPRINT). SUBSURFACE BUILDING FOOTINGS AND SUPPORTS WERE NOT LOCATED. CERTAIN ARCHITECTURAL FEATURES MAY NOT BE SHOWN ON THE SURVEY. ROOF OVERHANGS ARE NOT SHOWN UNLESS OTHERWISE NOTED. BUILDING DIMENSIONS AND BUILDING SETBACKS ARE SHOWN ROUNDED TO THE NEAREST ONE-TENTH (0.1 FEET) OF A FOOT. BEFORE DESIGN OF IMPROVEMENTS CRITICAL DIMENSIONS SHOWN BE CONFIRMED.
- THE DIMENSIONS SHOWN HEREON ARE BASED UPON U.S. SURVEY FEET AND FRACTIONAL PARTS THEREOF.
- AREA COMPUTATIONS, WHEN SHOWN IN ACRES, ARE ROUNDED TO THE NEAREST ONE-HUNDREDTH OF AN ACRE, AND WHEN SHOWN IN SQUARE FEET ARE ROUNDED TO THE NEAREST SQUARE FOOT. THE AREA FIGURES SHOWN HEREON SHOULD NOT BE UTILIZED AS THE BASIS OF PURCHASE PRICE FOR A REAL ESTATE CLOSING, WITHOUT PRIOR VERIFICATION OF THE AREA FIGURES, IN WRITING FROM THE SIGNING SURVEYOR.
- THE SURVEYOR DID NOT INSPECT THIS PROPERTY FOR ENVIRONMENTAL HAZARDS.
- THE INFORMATION DEPICTED ON THIS SKETCH OF SURVEY REPRESENTS THE RESULTS OF A FIELD SURVEY ON THE DATE INDICATED ON THE BORDER OF THE DRAWING AND CAN ONLY BE CONSIDERED VALID FOR THIS DATE AND INDICATES THE GENERAL CONDITIONS EXISTING AT THE TIME OF THE FIELD SURVEY.
- THIS SKETCH OF SURVEY CANNOT BE RELIED UPON BY PERSONS OR ENTITIES OTHER THAN THOSE PERSONS OR ENTITIES CERTIFIED TO HEREON. ADDITIONS OR DELETIONS TO THIS SURVEY AND/OR REPORTS BY PEOPLE OR PERSONS OTHER THAN THE SIGNING PARTIES ARE PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
- THE INFORMATION CONTAINED IN THIS DOCUMENT WAS PREPARED BY BAXTER & WOODMAN, INC. (B&W). B&W HAS TAKEN PRECAUTIONS TO ENSURE THE ACCURACY OF THIS DOCUMENT AND THE DATA REFLECTED HEREIN. B&W CANNOT NOT GUARANTEE THAT ALTERATIONS AND/OR MODIFICATIONS WILL NOT BE MADE TO THE DATA CONTAINED IN THIS DOCUMENT BY OTHERS AFTER IT LEAVES OUR POSSESSION. THIS DOCUMENT MUST BE COMPARED TO THE ORIGINAL HARD COPY (WHICH BEARS THE RAISED SURVEYOR'S CERTIFICATION SEAL) TO ENSURE THE ACCURACY OF THE INFORMATION CONTAINED HEREON AND TO FURTHER ENSURE THAT ALTERATIONS AND/OR MODIFICATIONS HAVE NOT BEEN MADE. B&W MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THE ACCURACY OF THE INFORMATION CONTAINED IN THIS OR ANY DOCUMENT TRANSMITTED OR REVIEWED BY COMPUTER OR OTHER ELECTRONIC MEANS. CONTACT B&W FOR VERIFICATION OF ACCURACY.

DESCRIPTION:

A PORTION OF SECTION 33, TOWNSHIP 40 SOUTH, RANGE 42 EAST, IN PALM BEACH COUNTY, STATE OF FLORIDA.

SURVEY ABBREVIATIONS:

ASPH = ASPHALT	HH = HAND HOLE	R/C = ROD AND CAP
BPP = BLACK PLASTIC PIPE	HDPE = HIGH DENSITY POLYETHYLENE PIPE	RCP = REINFORCED CONCRETE PIPE
BST = BELL SOUTH TELEPHONE	INV = INVERT	R/W = RIGHT OF WAY
C/L = CENTERLINE	IRC = IRON ROD & CAP	RWM = RIGHT OF WAY MAP
C = CALCULATED	L = LENGTH	RLS = REGISTERED LAND SURVEYOR
CFT = CALCULATED FROM	LF = LINEAR FEET	SEC = SECTION
CLF = CHAIN LINK FENCE	LSA = LANDSCAPE AREA	STA = STATION
CLP = CONCRETE LIGHT POLE	LWDD = LAKE WORTH DRAINAGE DISTRICT	TIITF = TRUSTEES OF THE INTERNAL
CMP = CORRUGATED METAL PIPE	MES = MITERED END SECTION	IMPROVEMENTS TRUST FUND
CONC = CONCRETE	MP = METAL PIPE	
CP = CONCRETE PIPE	N/A = NOT ACCESSIBLE	TON = TOP OF NUT
D = CENTRAL ANGLE	N/D = NAIL AND DISK	TOP = TOP OF PIPE
DC = DEPRESSED CURB	OHW = OVERHEAD WIRE	TOW = TOP OF WALL
DIP = DUCTILE IRON PIPE	ORB = OFFICIAL RECORD BOOK	UE = UTILITY EASEMENT
DEP = DEPRESSED (CURB)	PB = PLAT BOOK	UNK = UNKNOWN
EL = ELEVATION	PBC = PALM BEACH COUNTY	VERT = VERTICAL
EP = EDGE OF PAVEMENT	PBCR = PALM BEACH COUNTY RECORDS	VG = VALLEY GUTTER
EOW = EDGE OF WATER	PG = PAGE	VCP = VITRIFIED CLAY PIPE
FDOT = FLORIDA DEPARTMENT OF TRANSPORTATION	PP = PLASTIC PIPE	
FPL = FLORIDA POWER AND LIGHT	PK = PARKER-KALON BRAND	
FF = FINISH FLOOR ELEVATION	PRM = PERMANENT REFERENCE MARKER	
FND = FOUND	PVC = POLYVINYL CHLORIDE	
	R = RADIUS	

SURVEY SYMBOL LEGEND:

	ELECTRIC OUTLET		CATCH BASIN		AIR RELEASE VALVE
	BACK FLOW PREVENTER		= RED FLAG		BELLSOUTH MANHOLE
	WATER METER		= WHITE FLAG		FPL MANHOLE
	RECLAIM WATER METER		= BLUE FLAG		UNKNOWN TYPE MANHOLE
	IRRIGATION VALVE		= YELLOW FLAG		SANITARY MANHOLE
	SEWER VALVE		= ORANGE FLAG		STORM DRAINAGE MANHOLE
	WATER VALVE		= GREEN FLAG		LIMITS OF LANDSCAPING
	RECLAIMED WATER VALVE		CLEAN OUT		LIMITS OF TREE CANOPY
	SPIGOT		GUY WIRE ANCHOR		BUSH/HEDGE
	SIGN		BLUE PAINT MARKS		
	OVERHEAD UTILITY WIRE		RED PAINT MARKS		
	EXISTING ELEVATION		GREEN PAINT MARKS		
	FIRE HYDRANT		ORANGE PAINT MARKS		
	WOOD POWER POLE		PURPLE PAINT MARKS		
	CONCRETE POWER POLE		YELLOW PAINT MARKS		
	GROUND LIGHT		WHITE PAINT MARKS		
	WOOD POLE STREET LIGHT		SPRINKLER HEAD		
	CONCRETE POLE STREET LIGHT		MAILBOX		
	FIBER OPTIC MARKER		CONCRETE UTILITY POLE		
	ELECTRIC METER		WOOD GUIDE POLE		
	ELECTRIC HANDHOLE		CONCRETE SIGNAL LIGHT POLE		
	UNKNOWN HANDHOLE		TRASH CAN		
	TELEPHONE HANDHOLE		MONITORING WELL		
	FIBER OPTIC HANDHOLE		ELECTRICAL PANEL		
	ELECTRIC BOX		TRAFFIC HANDHOLE		
	IRRIGATION CONTROL VALVE IN CONC. BOX		CABLE TV RISER BOX		
	PARKING METER		UNKNOWN RISER BOX		
			FIBER OPTIC RISER BOX		
			AT&T PHONE RISER		

SURVEY TREE LEGEND:

00' - ACACIA	00' - UNKNOWN	00' - CITRUS	00' - CYPRESS
00' - PALM SPECIES	00' - ROYAL POINCIANA	00' - CACTUS	00' - PAPAYA
00' - BANANA	00' - MAPLE	00' - MANGO	00' - GUMBO-LIMBO
00' - FICUS	00' - MAHOGANY	00' - HEDGE	00' - PINE
00' - SEAGRAPE	00' - OAK	00' - BUSH	

↑ Indicates trunk diameter

NOTE: VERIFICATION OF TREE SPECIES SHOULD BE CONDUCTED BY A PROFESSIONAL ENGAGED IN THE FIELD OF NATURAL SCIENCE.

SURVEYOR CERTIFICATION:

THIS IS TO CERTIFY THAT THIS SKETCH OF A TOPOGRAPHIC SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND IS ACCURATE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SKETCH MEETS THE STANDARDS OF PRACTICE, ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS, CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODES, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

LAST DAY OF FIELD WORK: 10/28/18

DATE OF SIGNATURE: 10/31/18

THOMAS A. ENGLISH
PROFESSIONAL SURVEYOR AND MAPPER NO. 6930
STATE OF FLORIDA
MATHEWS CONSULTING, A BAXTER AND WOODMAN COMPANY LB 8175

TOPOGRAPHIC SURVEY COMPLETED BY:

MATHEWS CONSULTING
a BAXTER & WOODMAN company

477 S. Rosemary Avenue, Suite 330, West Palm Beach, Florida 33401
Phone: 561-655-6175 Fax: 561-655-6179
www.baxterwoodman.com EB-31795

Rev. Description
1/15/2019 - Revise survey info.

LOXAHATCHEE RIVER
ENVIRONMENTAL CONTROL DISTRICT

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181ST STREET NEIGHBORHOOD
GRAVITY SEWER SYSTEM

LEGEND

Drawn: JD

Checked: JJ

Proj. Eng. KD

Scale: NTS


Date: 1/10/2019

G3

Sheet #: 2 of 9



Rev.	Description

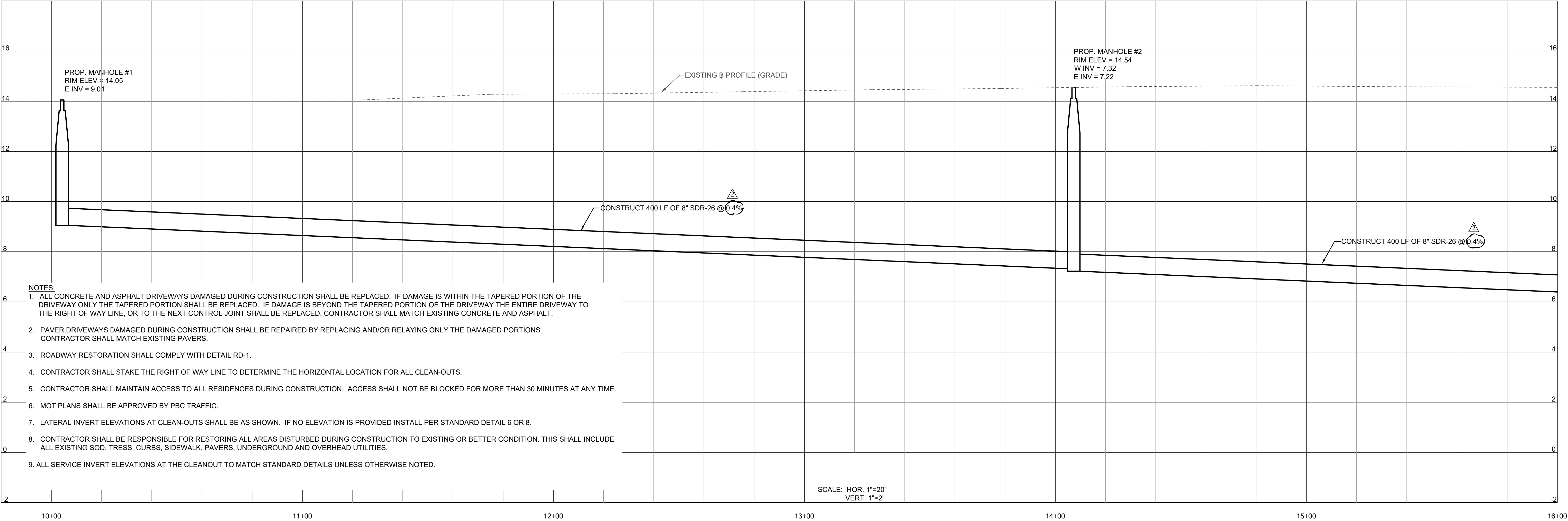
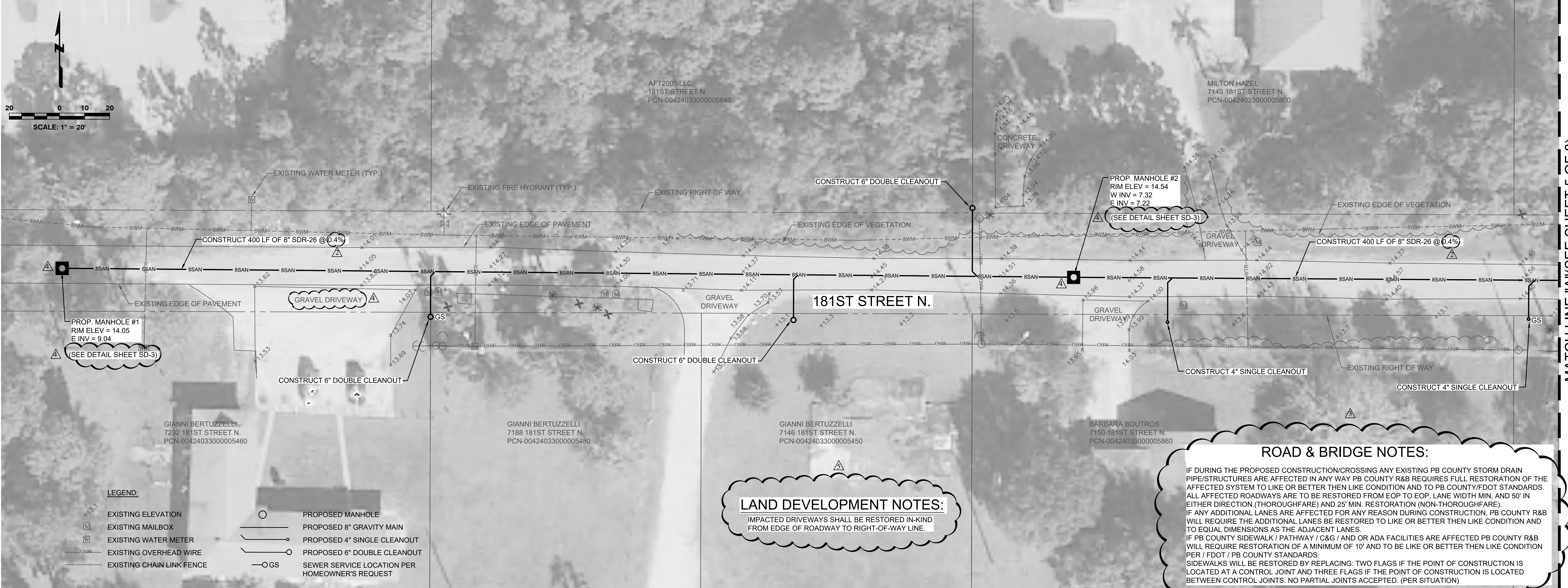


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181ST STREET NEIGHBORHOOD
GRAVITY SEWER SYSTEM

KEY SHEET

Drawn:	JD
Checked:	JJ
Proj. Eng.	KD
Scale:	1"=50'
Date:	1/10/2019
KS	
Sheet #: 3 of 9	



Rev.	Description
1/23/2019	Updated Slope Percentage per PBC Comments
3/7/2019	Road & Bridge note, per PBCLD Comments
9/17/2019	Manhole / Driveways per PBCLD Comments
10/5/2019	Added note per Land Development Comments.

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181ST STREET NEIGHBORHOOD GRAVITY SEWER SYSTEM

SEWER PLAN

Drawn: JD

Checked: JJ

Proj. Eng. KD

Scale: AS NOTED

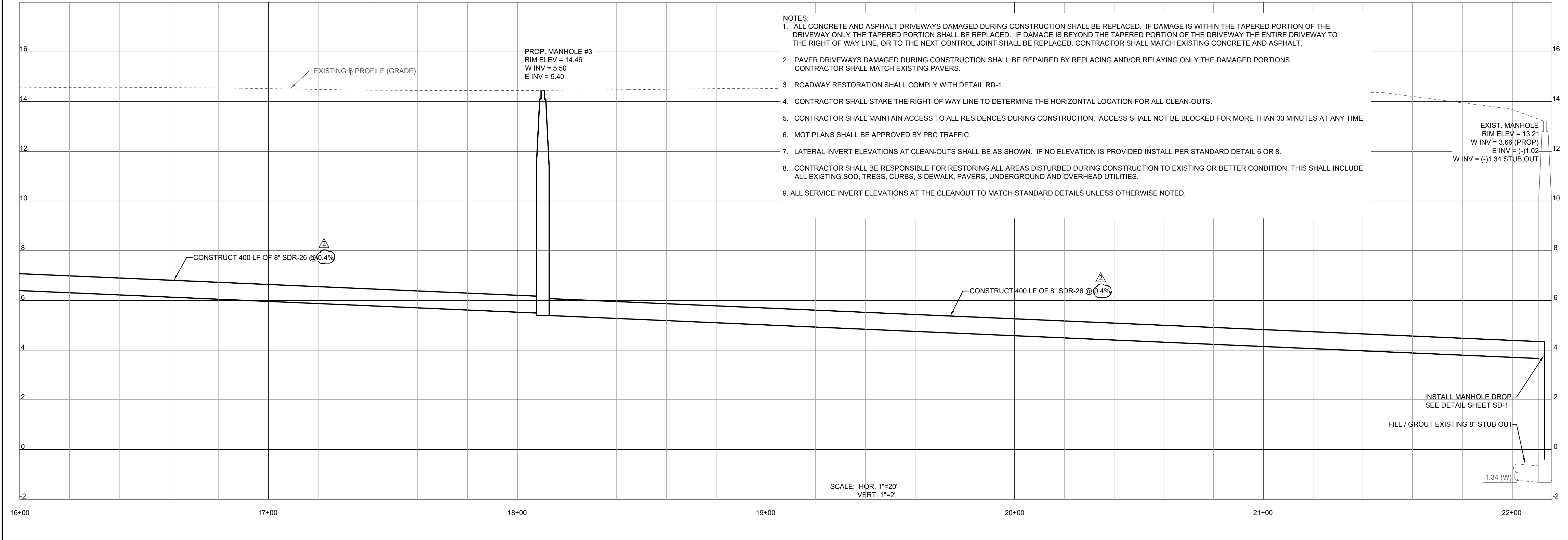
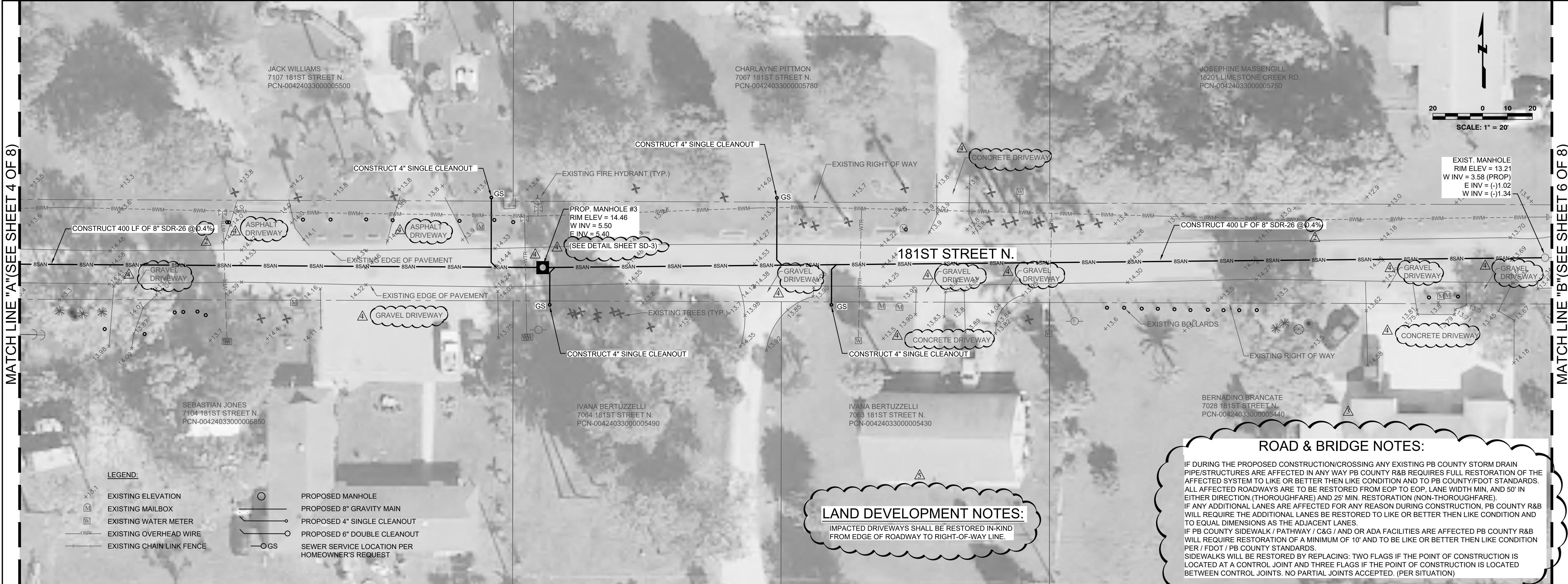
Date: 1/10/2019

WW-1

Sheet #: 4 of 9

MATCH LINE "A"(SEE SHEET 4 OF 8)

MATCH LINE "B"(SEE SHEET 6 OF 8)



Rev.	Description
1/23/2019	Updated Slope Percentage per PBC Comments
3/7/2019	Road & Bridge note, per PBCLD Comments
9/17/2019	Manhole / Driveways per PBCLD Comments
10/5/2019	Added note per Land Development Comments.

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181ST STREET NEIGHBORHOOD GRAVITY SEWER SYSTEM

SEWER PLAN

Drawn:	JD
Checked:	JJ
Proj. Eng.	KD
Scale:	AS NOTED
Date:	1/10/2019

WW-2

Sheet #: 5 of 9

MATCH LINE "B"(SEE SHEET 5 OF 8)



LAND DEVELOPMENT NOTES:

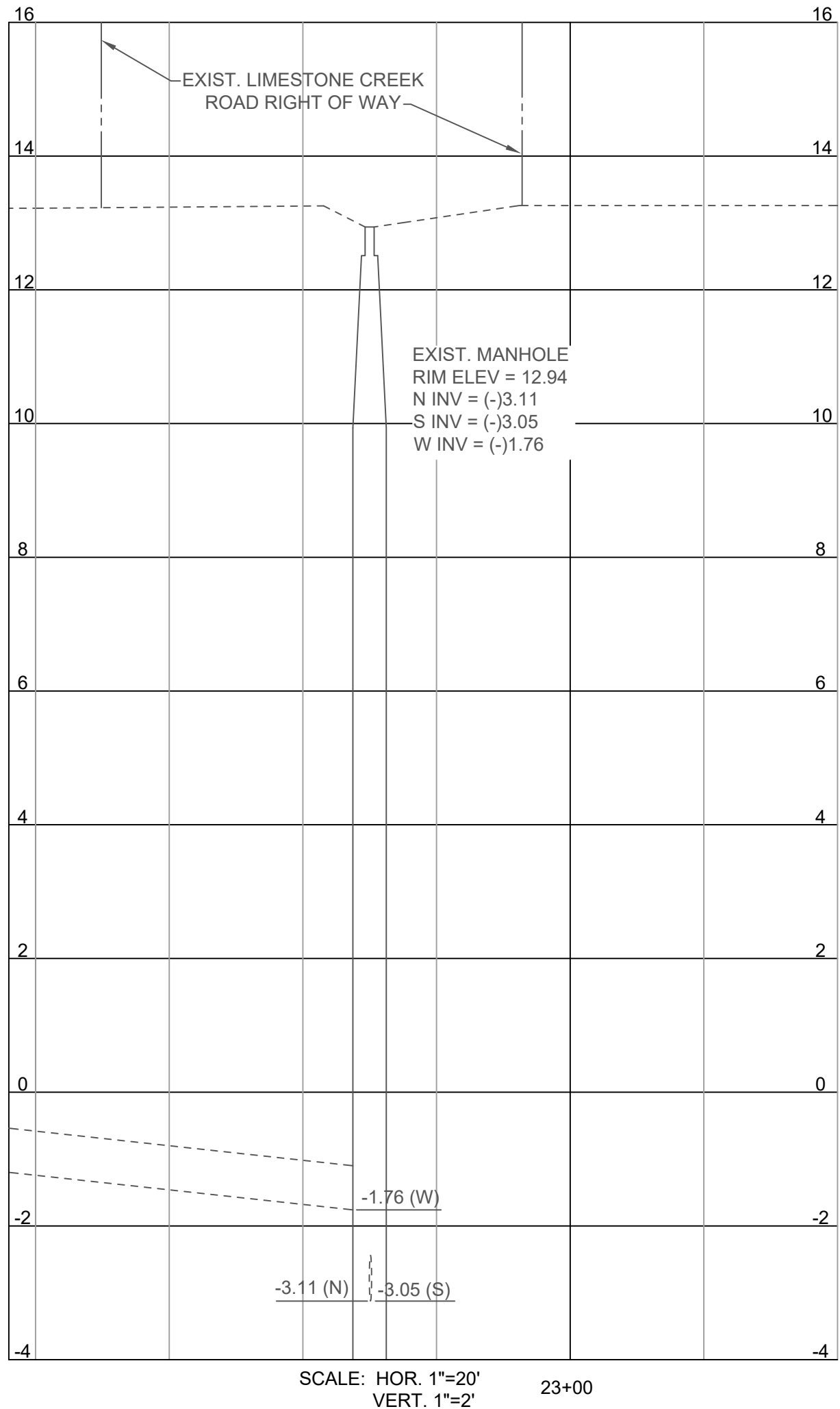
IMPACTED DRIVEWAYS SHALL BE RESTORED IN-KIND FROM EDGE OF ROADWAY TO RIGHT-OF-WAY LINE.

ROAD & BRIDGE NOTES:

IF DURING THE PROPOSED CONSTRUCTION/CROSSING ANY EXISTING PB COUNTY STORM DRAIN PIPE/STRUCTURES ARE AFFECTED IN ANY WAY PB COUNTY R&B REQUIRES FULL RESTORATION OF THE AFFECTED SYSTEM TO LIKE OR BETTER THEN LIKE CONDITION AND TO PB COUNTY/FDOT STANDARDS. ALL AFFECTED ROADWAYS ARE TO BE RESTORED FROM EOP TO EOP, LANE WIDTH MIN, AND 50' IN EITHER DIRECTION (THOROUGHFARE) AND 25' MIN. RESTORATION (NON-THOROUGHFARE). IF ANY ADDITIONAL LANES ARE AFFECTED FOR ANY REASON DURING CONSTRUCTION, PB COUNTY R&B WILL REQUIRE THE ADDITIONAL LANES BE RESTORED TO LIKE OR BETTER THEN LIKE CONDITION AND TO EQUAL DIMENSIONS AS THE ADJACENT LANES. IF PB COUNTY SIDEWALK / PATHWAY / C&G / AND OR ADA FACILITIES ARE AFFECTED PB COUNTY R&B WILL REQUIRE RESTORATION OF A MINIMUM OF 10' AND TO BE LIKE OR BETTER THEN LIKE CONDITION PER / FDOT / PB COUNTY STANDARDS. SIDEWALKS WILL BE RESTORED BY REPLACING: TWO FLAGS IF THE POINT OF CONSTRUCTION IS LOCATED AT A CONTROL JOINT AND THREE FLAGS IF THE POINT OF CONSTRUCTION IS LOCATED BETWEEN CONTROL JOINTS. NO PARTIAL JOINTS ACCEPTED. (PER SITUATION)

NOTES:

1. ALL CONCRETE AND ASPHALT DRIVEWAYS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED. IF DAMAGE IS WITHIN THE TAPERED PORTION OF THE DRIVEWAY ONLY THE TAPERED PORTION SHALL BE REPLACED. IF DAMAGE IS BEYOND THE TAPERED PORTION OF THE DRIVEWAY THE ENTIRE DRIVEWAY TO THE RIGHT OF WAY LINE, OR TO THE NEXT CONTROL JOINT SHALL BE REPLACED. CONTRACTOR SHALL MATCH EXISTING CONCRETE AND ASPHALT.
2. PAVER DRIVEWAYS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY REPLACING AND/OR RELAYING ONLY THE DAMAGED PORTIONS. CONTRACTOR SHALL MATCH EXISTING PAVERS.
3. ROADWAY RESTORATION SHALL COMPLY WITH DETAIL RD-1.
4. CONTRACTOR SHALL STAKE THE RIGHT OF WAY LINE TO DETERMINE THE HORIZONTAL LOCATION FOR ALL CLEAN-OUTS.
5. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL RESIDENCES DURING CONSTRUCTION. ACCESS SHALL NOT BE BLOCKED FOR MORE THAN 30 MINUTES AT ANY TIME.
6. MOT PLANS SHALL BE APPROVED BY PBC TRAFFIC.
7. LATERAL INVERT ELEVATIONS AT CLEAN-OUTS SHALL BE AS SHOWN. IF NO ELEVATION IS PROVIDED INSTALL PER STANDARD DETAIL 6 OR 8.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL AREAS DISTURBED DURING CONSTRUCTION TO EXISTING OR BETTER CONDITION. THIS SHALL INCLUDE ALL EXISTING SOD, TRESS, CURBS, SIDEWALK, PAVERS, UNDERGROUND AND OVERHEAD UTILITIES.
9. ALL SERVICE INVERT ELEVATIONS AT THE CLEANOUT TO MATCH STANDARD DETAILS UNLESS OTHERWISE NOTED.



Rev.	Description
△	3/7/2019 - Road & Bridge note, per PBCLD Comments
△	10/5/2019 - Added note per Land Development Comments.

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181ST STREET NEIGHBORHOOD
GRAVITY SEWER SYSTEM

SEWER PLAN

Drawn: JD
Checked: JJ
Proj. Eng. KD
Scale: AS NOTED
Date: 1/10/2019

WW-3

Sheet #: 6 of 9


Rev.		Description	

Rev.

Description

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181ST STREET NEIGHBORHOOD GRAVITY SEWER SYSTEM

STANDARD DETAILS

Drawn: JD

Checked: JJ

Proj. Eng. KD

Scale: NTS

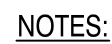
Date: 1/10/2019

SD-1

Sheet #: 7 of 9

62-555.314 F.A.C. AUGUST 28, 2003

- *REQUIRED BY: HRS, STATE OF FLORIDA, PALM BEACH COUNTY PUBLIC HEALTH UNIT



1. COMPACTION MUST BE DONE BY A MECHANICAL VIBRATORY COMPACTOR. EACH LIFT MUST RECEIVE 5 PASSES OF THE COMPACTOR OVER ENTIRE SURFACE. BEFORE COMPACTING EACH LIFT, WATER MUST BE APPLIED AT THE RATE OF 1 GAL. PER LINEAL FOOT OF THE TRENCH FOR BACKFILL AND 1/2 GAL. PER LINEAL FOOT OF TRENCH FOR COQUINA BASE. WATER TO BE SPRINKLED EVENLY OVER TRENCH WIDTH.

WATER TABLE DEPTH

[illegible][illegible]

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181ST STREET NEIGHBORHOOD GRAVITY SEWER SYSTEM

STANDARD DETAILS

3

3

SD-2

Sheet #: 8 of 9

10/16/2017 8:59:39 AM

10/16/2017 8:59:39 AM

TRENCH CUTS AND RESTORATIONS ACROSS ROADWAYS			
LAST REVISION 11/01/17	DESCRIPTION:	FY 2018-19 STANDARD PLANS	UTILITY ADJUSTMENTS THRU EXISTING PAVEMENT
REV	SD/DM		INDEX 125-001
			SHEET 1 of 2



NOTES:

PAVEMENT REMOVAL AND REPLACEMENT

1. Pavement shall be mechanically sawed.
2. The replacement asphalt shall match the existing structural and friction courses for type and thickness in accordance with current FDOT asphalt mix specifications.
3. The new base materials shall be either of the same type and composition as the materials removed or of equal or greater structural adequacy.

BACKFILL OPTION

1. COMPACTED AND STABILIZED FILL

- A. Place backfill material in accordance with Specifications 125.
- B. In Stage #1, construct compacted fill beneath the haunches of the pipe, using mechanical tamps suitable for this purpose. This compaction applies to the material placed beneath the haunches of the pipe and above any bedding.
- C. In Stage #2, construct compacted fill along the sides of the pipe and up to the bottom of the base, with the upper 12" receiving Type B Stabilization. In lieu of Type B Stabilization, the Contractor may construct using Optional Base Group 3.

2. FLOWABLE FILL

- A. If compaction can not be achieved through normal mechanical methods then flowable fill may be used.
- B. Flowable fill is to be placed in accordance with Section 121 of the Specifications, as approved by the Engineer.
- C. Do not allow the utility being installed to float. If a method is provided to prevent flotation from occurring, Stages #1 and #2 can be combined, if approved by the Engineer.
- D. In Stage #1, place flowable fill midway up on both sides of the utility. Allow to harden before placing Stage #2.
- E. In Stage #2, place flowable fill to the bottom of the existing base course.

FLEXIBLE PAVEMENT CUT

GENERAL NOTES

1. The details provided in this Index apply to cases in which jack and bore or directional boring methods are not required by the Engineer.
2. Flowable fill shall not be placed directly over loose, or high plastic, or muck material (see Index 120-001) which will cause settlement due to fill weight. Where highly compressible material exists, the amount, shape and depth of flowable fill must be engineered to prevent pavement settlement.
3. These details do not apply to utility cuts longitudinal to the centerline of the roadway which may require the additional use of geotextiles, special bedding and backfill, or other special requirements.
4. Method of construction must be approved by the Engineer.
5. Some pipe may require special granular backfill up to 6" above top of pipe. Geotextiles may be required to encapsulate the special granular material.

6. Where asphalt concrete overlays exist over full slab concrete pavement, the replacement pavement shall have an overlay constructed over the replacement slab. The overlay shall match the existing asphalt pavement thickness. The replacement friction course shall match the existing friction course, except structural course may be used in lieu of dense graded friction course.
7. All shoulder pavement, curb, curb and gutter, and their substructure disturbed by utility trench cut construction shall be restored in kind.
8. The use of flowable fill to reduce the time traffic is taken off a facility is acceptable but must have prior approval by the Engineer. Flowable fill use is allowed only when properly engineered for pavement crossings, whether straight or diagonal, and shall not be installed for significant depths or lengths. The maximum length shall be fifty (50) feet and a maximum depth of six (6) feet unless supported by an engineering document prepared by a registered professional engineer that specializes in soils engineering. The engineering document shall address the evaluation of local groundwater flow interruption and settlement potential.
9. Excavatable flowable fill is to be used when the flowable fill option is selected.

RIGID PAVEMENT CUT

NOTES:

PAVEMENT REMOVAL AND REPLACEMENT

1. High early strength cement concrete (3000 psi) meeting the requirements of Standard Specification 346 shall be used for rigid pavement replacement.
2. Pavement shall be mechanically sawed and restored to conform with existing pavement joints within 12 hours. (See Index 350-001)

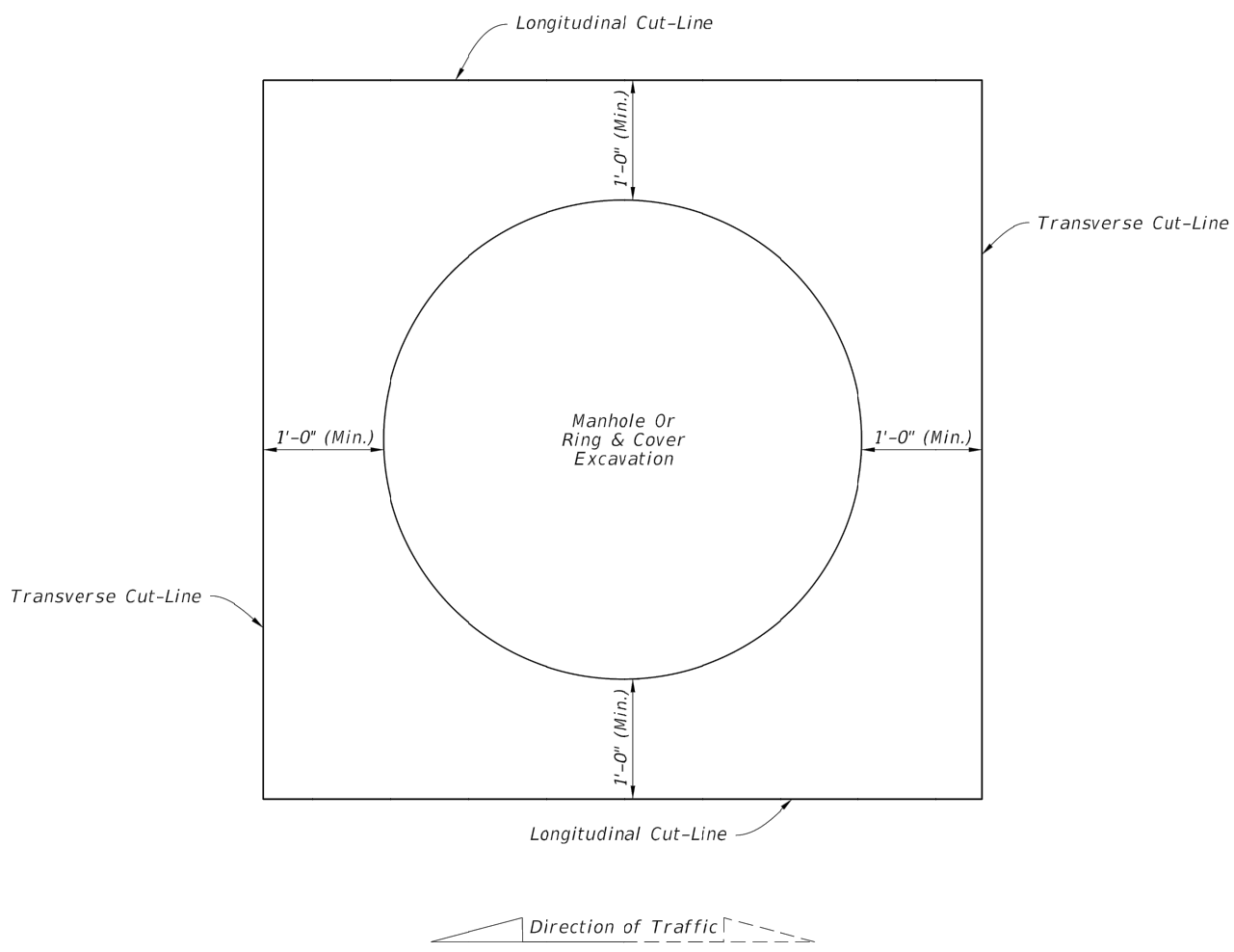
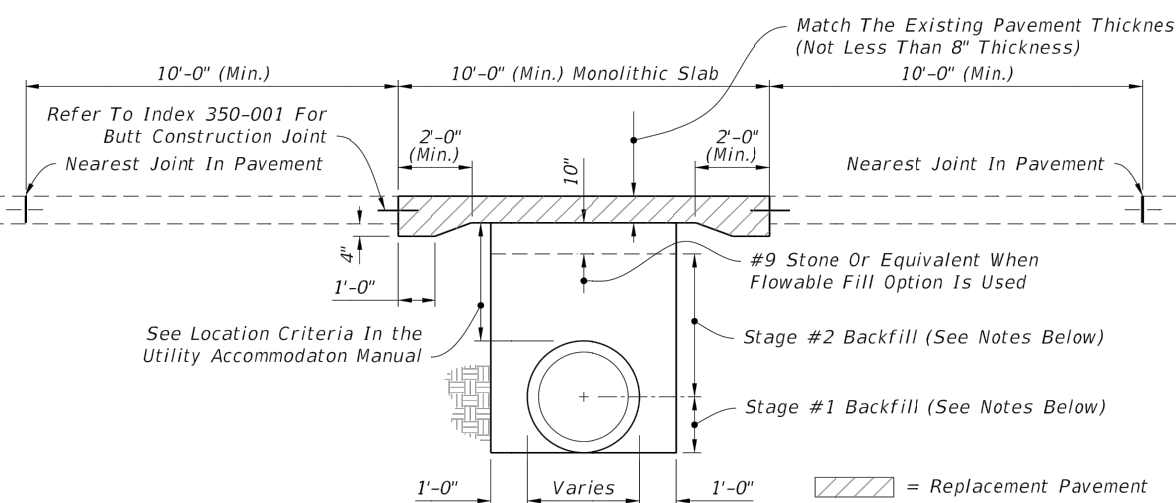
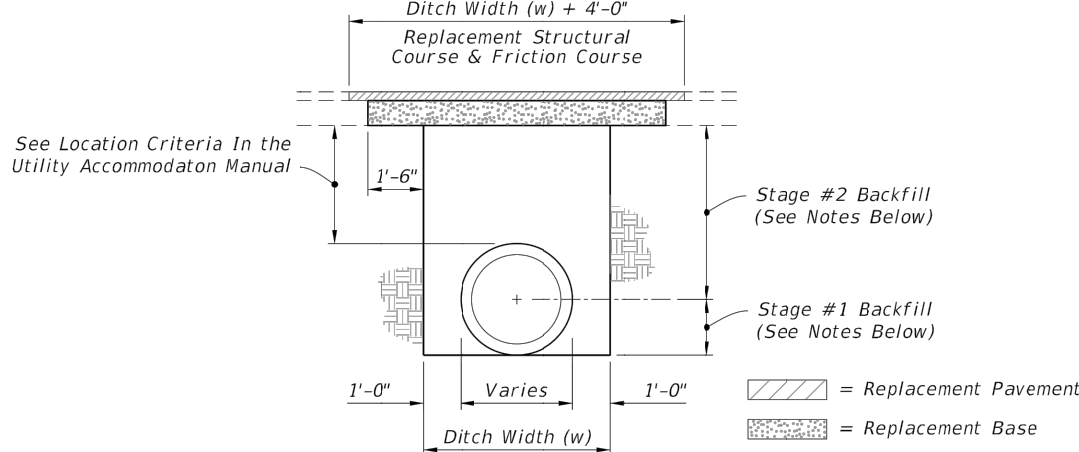
BACKFILL OPTION

1. GRANULAR BACKFILL

- A. Any edgedrain system that is removed shall be replaced with the same type materials. Any edgedrain system that is damaged shall be repaired with methods approved by the Engineer.
- B. Fill material shall be placed in accordance with the Standard Specifications. Fill material shall be special select soil in accordance with Index 350-001.
- C. In Stage #1, construct compacted fill beneath the haunches of the pipe, using mechanical tamps suitable for this purpose. This compaction applies to the material placed beneath the haunches of the pipe and above any bedding.
- D. In Stage #2, construct fill along the sides of the pipe and up to the bottom of replacement pavement.

2. FLOWABLE FILL

- A. If mechanical compaction can not be achieved through normal mechanical methods then flowable fill may be used.
- B. Flowable fill is to be placed in accordance with Section 121 of the Specifications, as approved by the Engineer.
- C. Do not allow the utility being installed to float. If a method is provided to prevent flotation from occurring, Stages #1 and #2 can be combined, if approved by the Engineer.
- D. In Stage #1, place flowable fill midway up on both sides of the utility. Allow to harden before placing Stage #2.
- E. In Stage #2, place flowable fill to the bottom of the stone layer.



PARTIAL CUTS FOR RING AND COVER ADJUSTMENTS

NOTES

1. Cut-Lines must be straight and cleanly sawed.
2. See Sheet 1 for replacement pavement.
3. Adjust manholes prior to placing friction course when pavement resurfacing is occurring in the area adjacent to the manhole.
4. Align Longitudinal Cut-Lines with pavement joint or center of traffic lane to avoid wheel path.
5. For rigid pavement, align Transverse Cut-Lines with nearest existing joint.

10/16/2017 8:59:39 AM

NONTRENCH PAVEMENT CUTS FOR UNDERGROUND UTILITY STRUCTURES IN PAVEMENT			
LAST REVISION 11/01/17	DESCRIPTION:	FY 2018-19 STANDARD PLANS	UTILITY ADJUSTMENTS THRU EXISTING PAVEMENT
REV	SD/DM		INDEX 125-001
			SHEET 2 of 2



Rev.	Description
A	3/7/2019 - Added Details, per PBCLD Comments
A	9/17/2019 - Manhole / Driveways per PBCLD Comments

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181ST STREET NEIGHBORHOOD
GRAVITY SEWER SYSTEM

STANDARD DETAILS

Drawn: JD
Checked: JJ
Proj. Eng. KD
Scale: NTS
Date: 1/10/2019

SD-3

Sheet #: 9 of 9