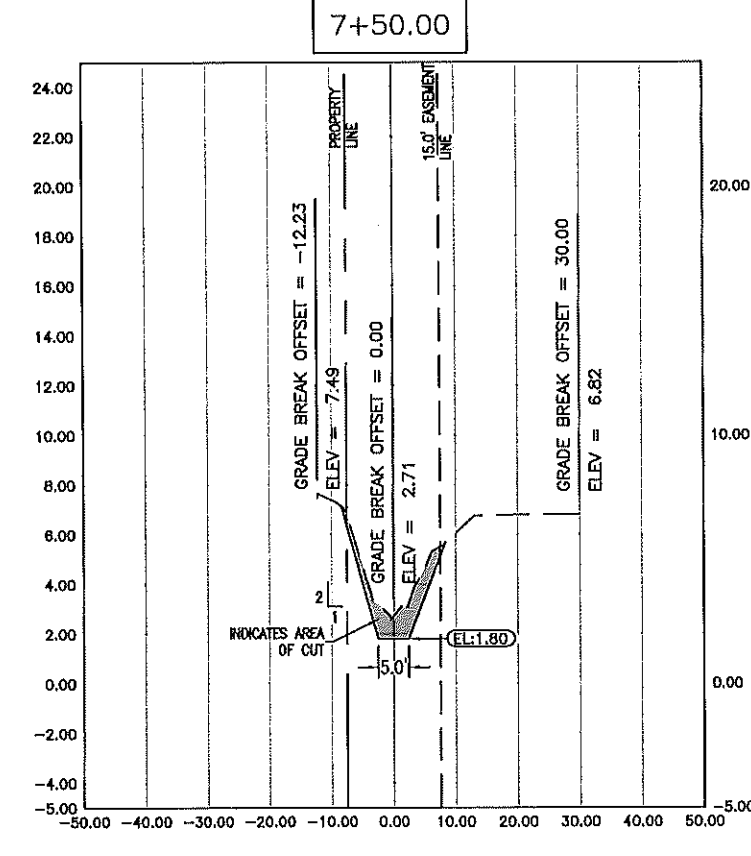
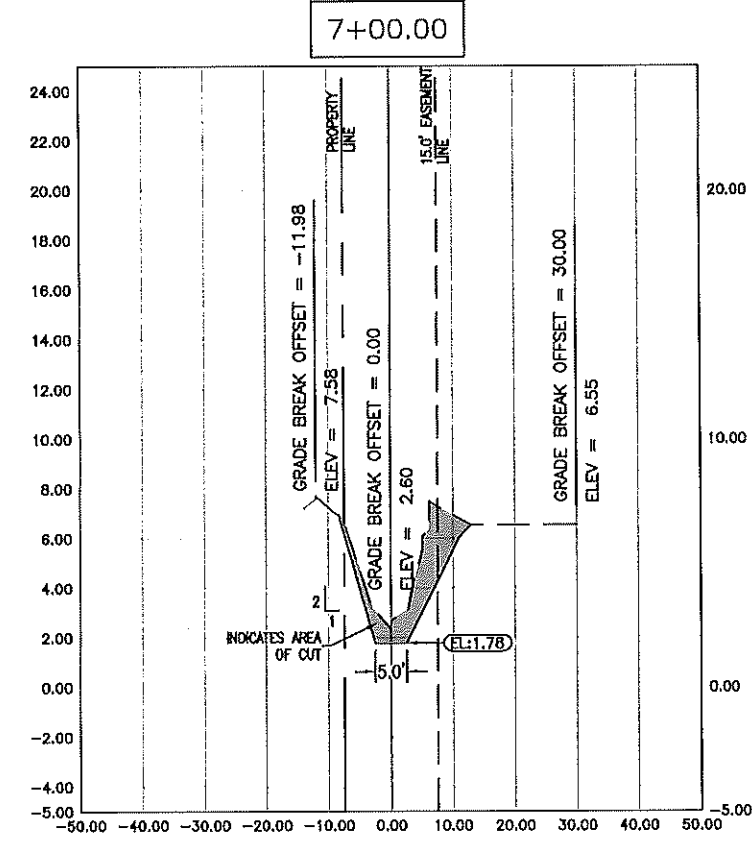
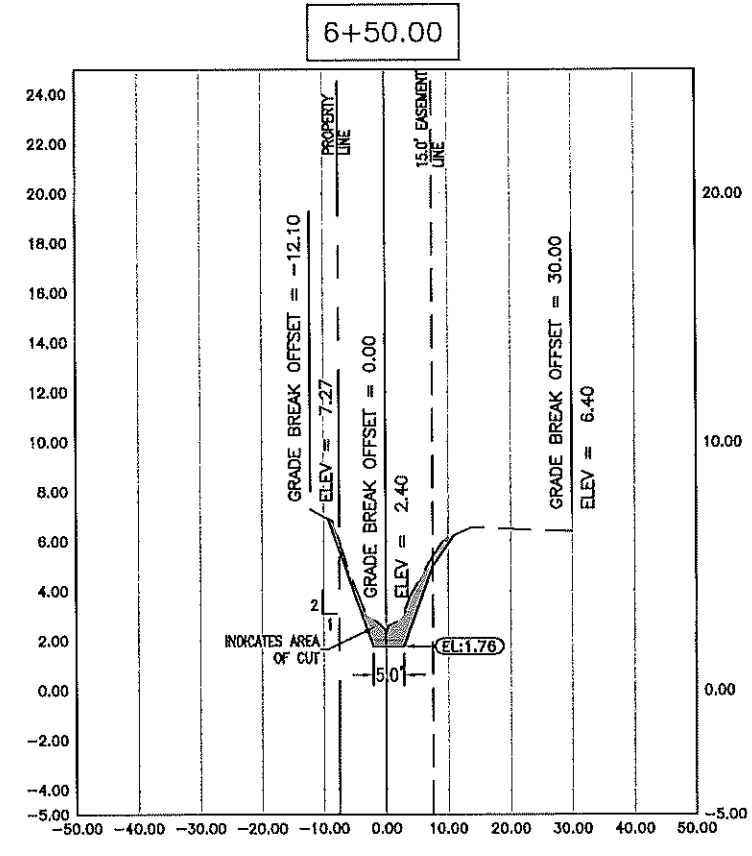
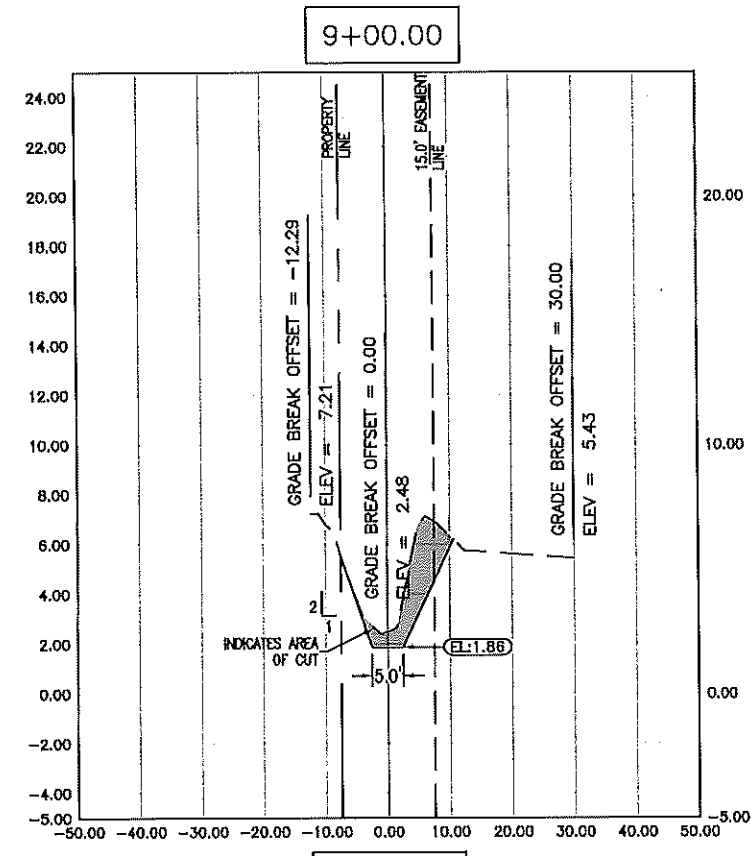
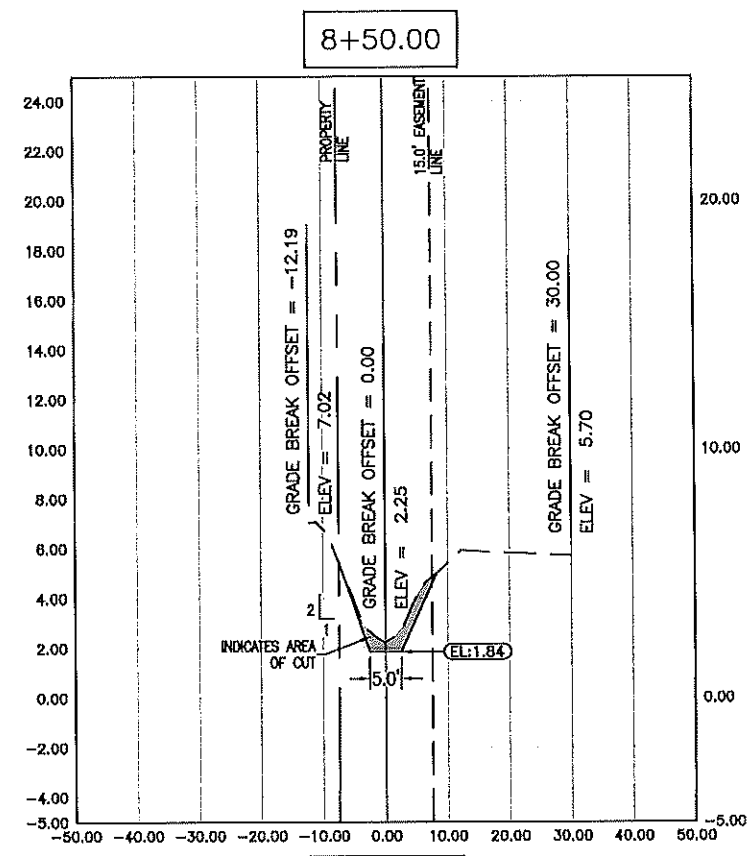
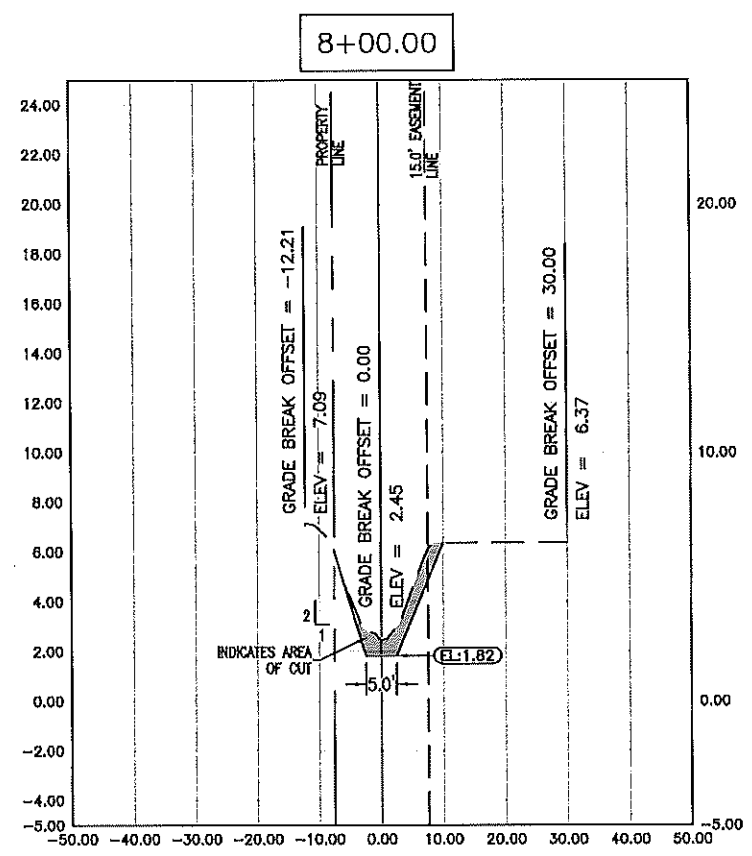


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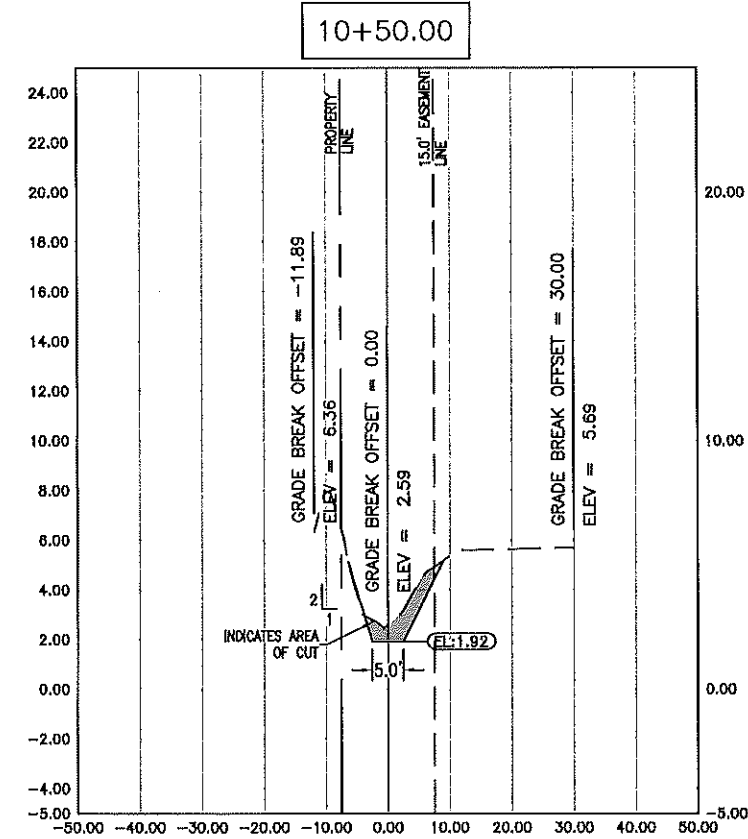
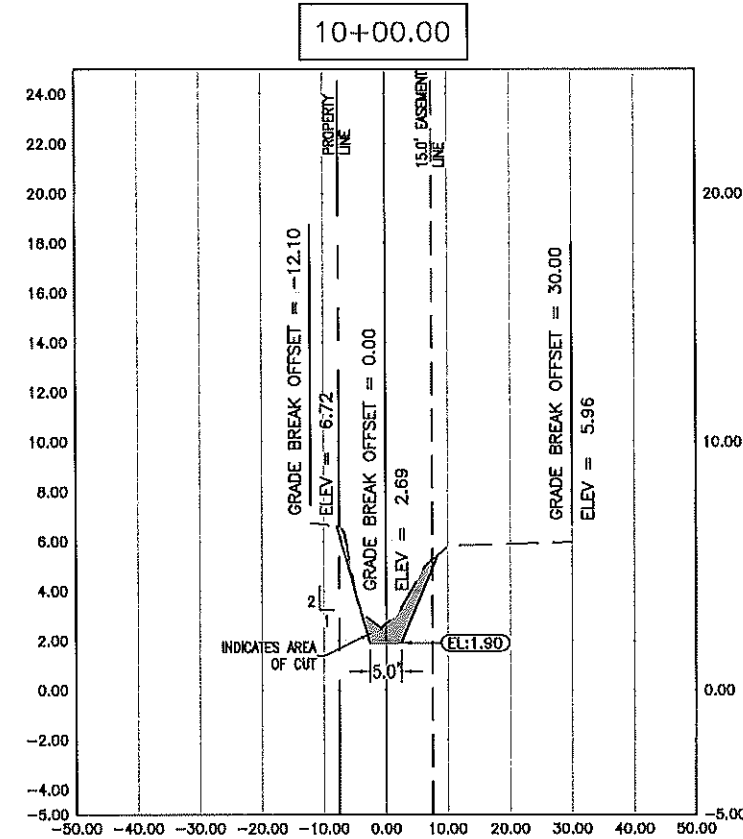
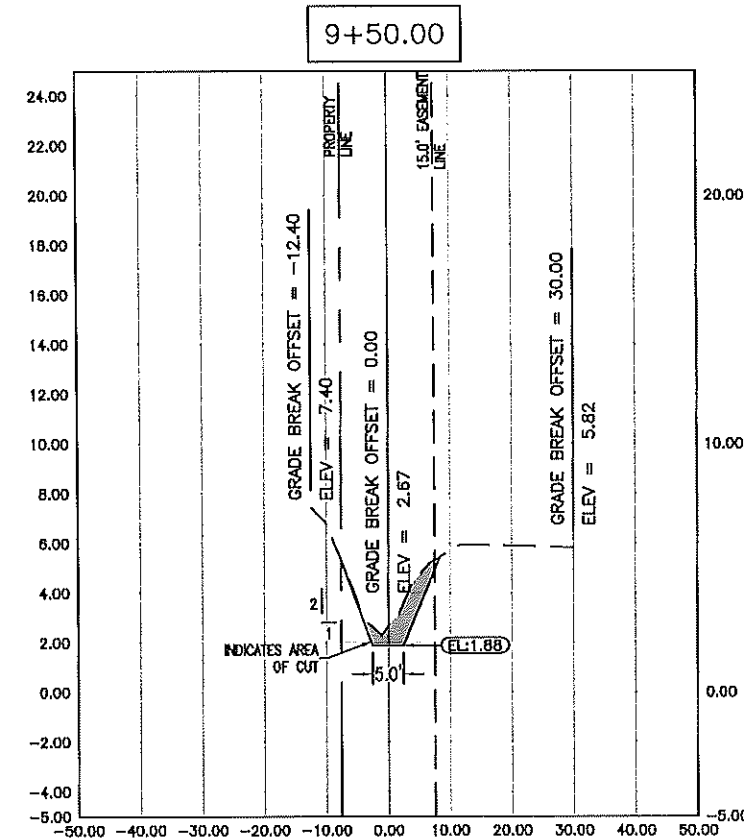
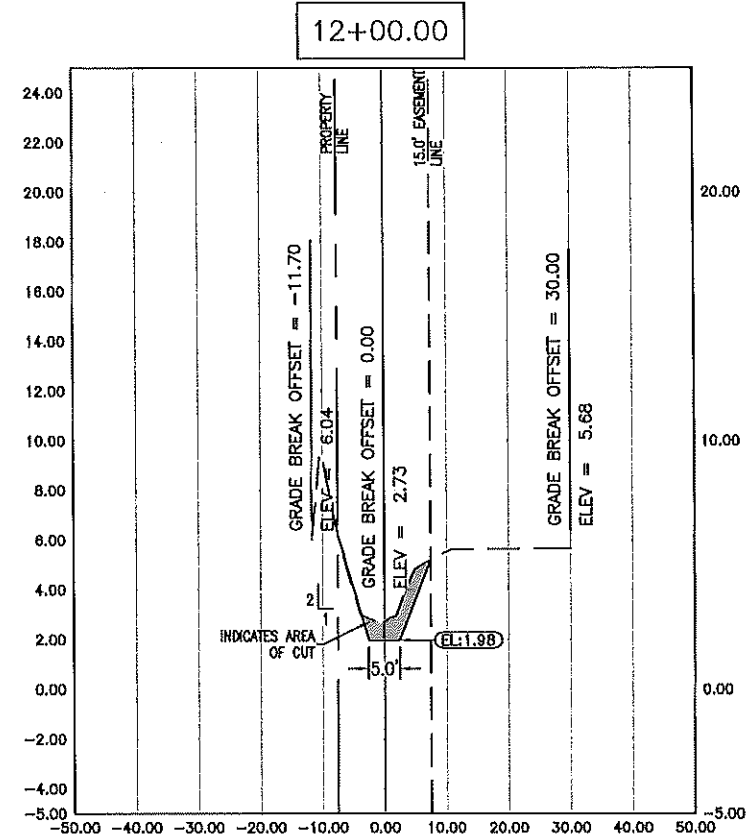
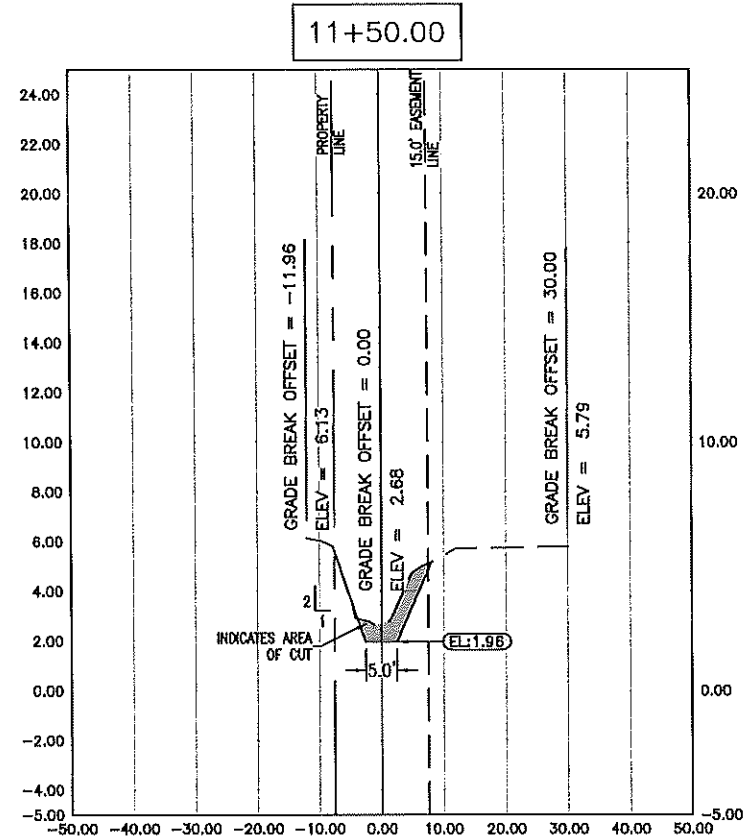
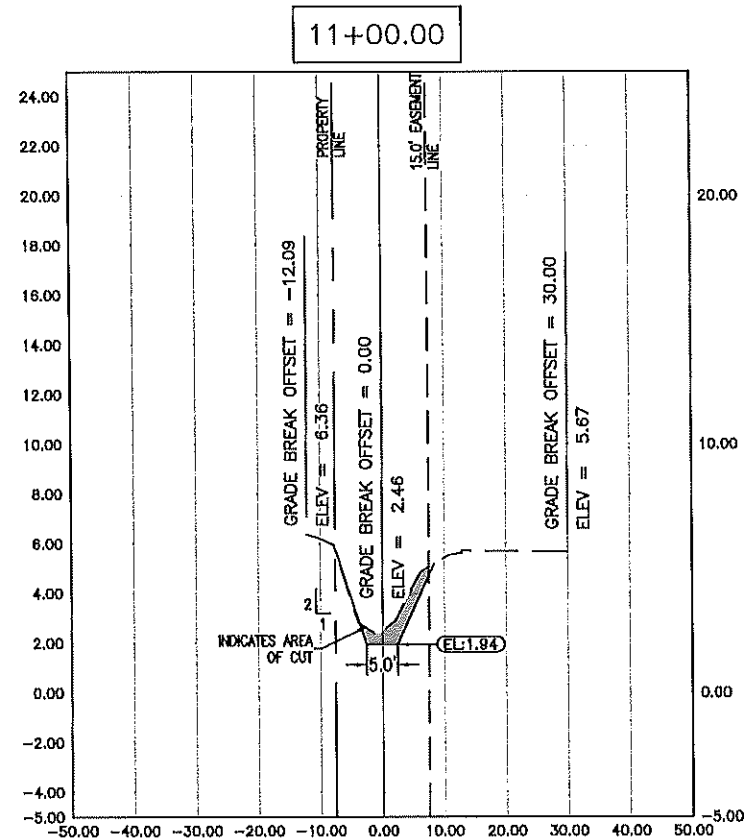
Poinciana Village
Stormwater Improvements
Ditch Cross Sections West

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FL. LICENSE NO. 41671
11/12/2024

KLP	KLP	DWS
DESIGN	DRAWN	CHKD
SCALE	1" = 30'	

JOB No.	2021-016
DRAWING No.	PLAN SH.
DATE	11/2022
SHEET	101



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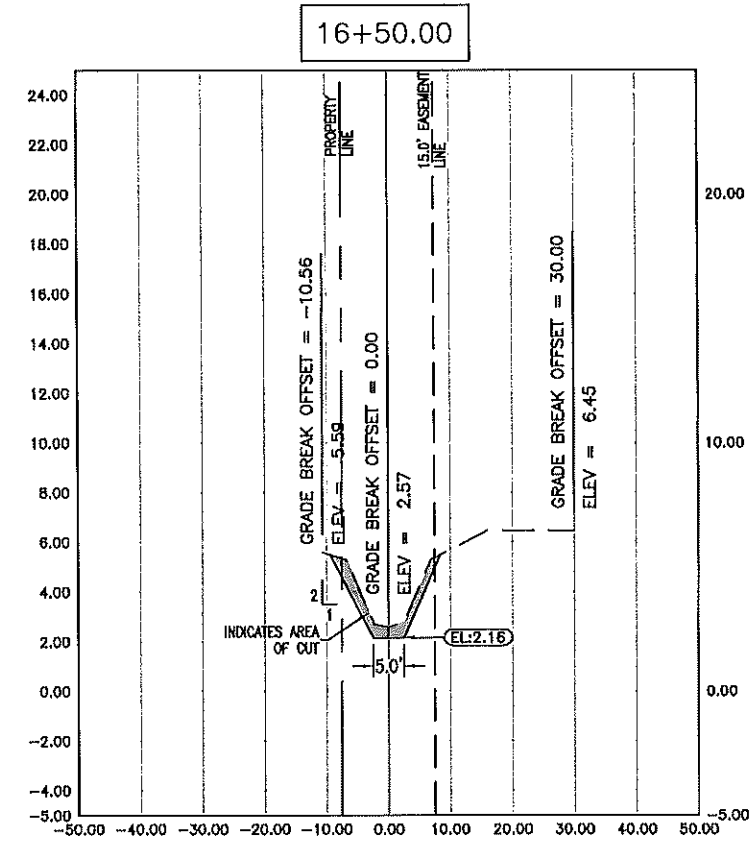
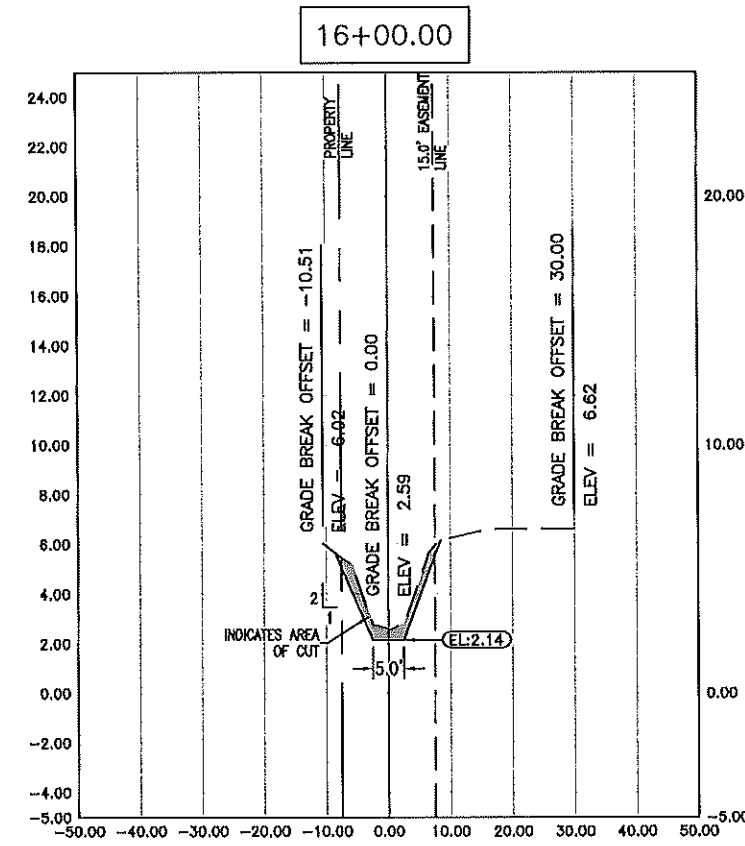
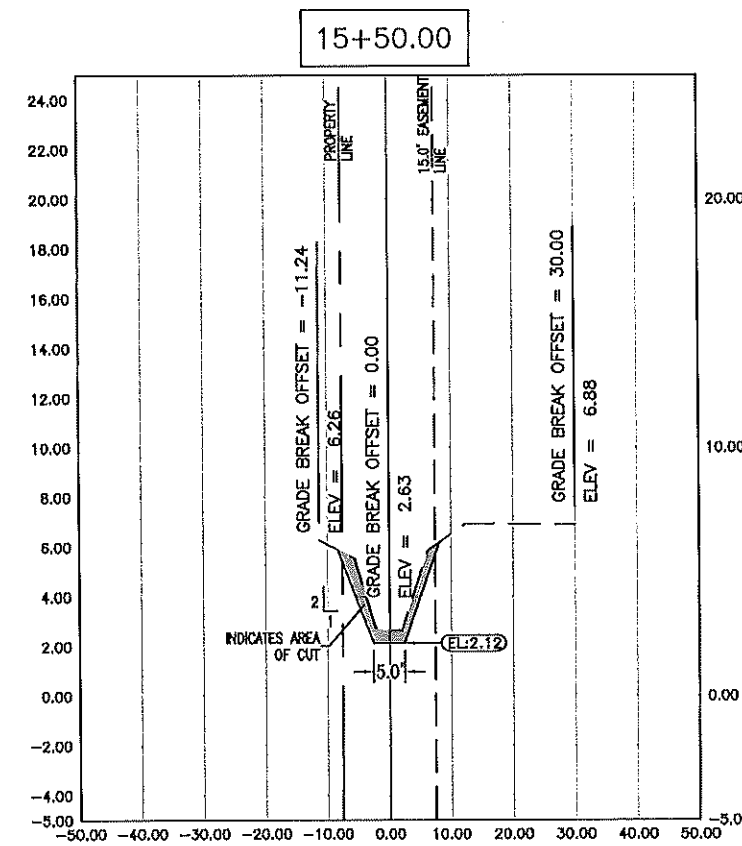
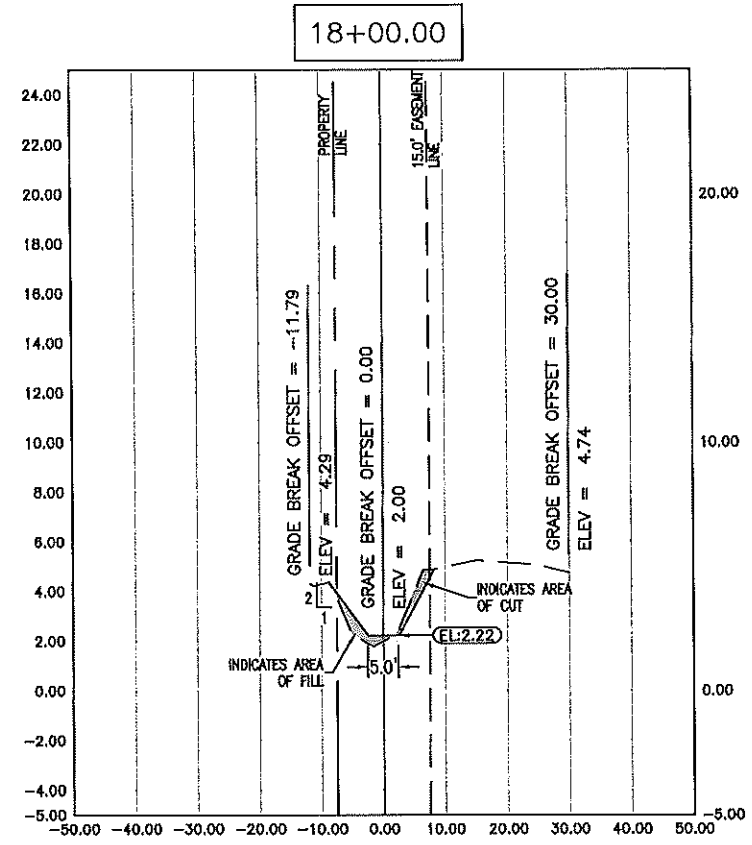
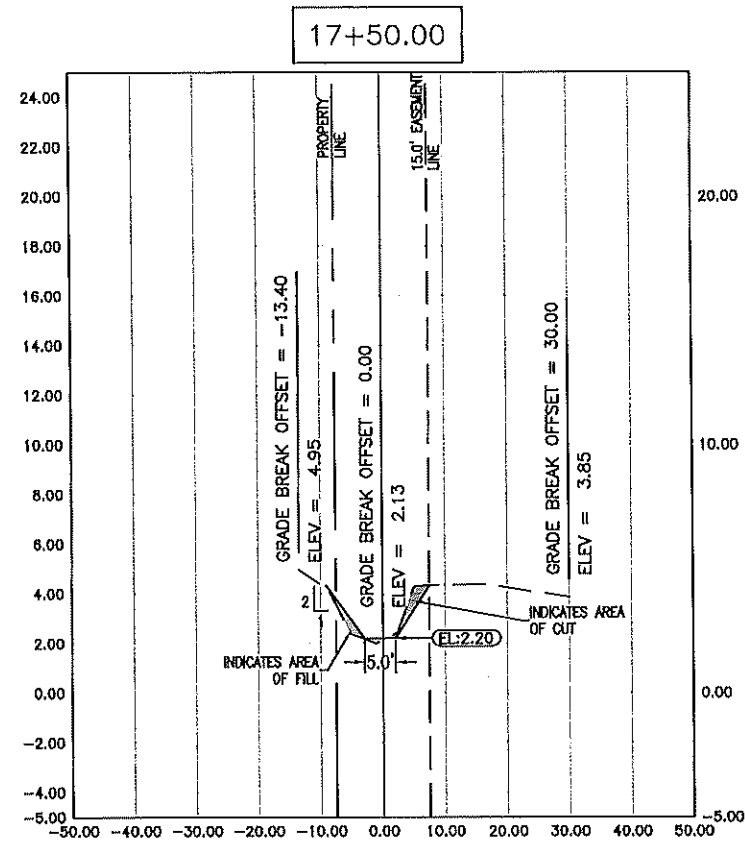
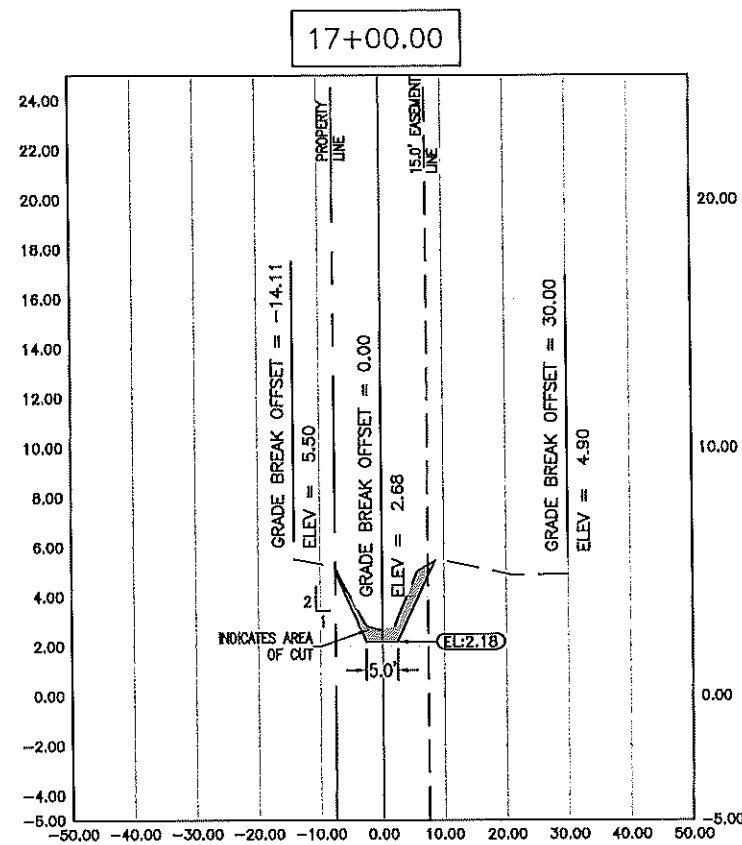
**Poinciana Village
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KLP	KLP	DW
DESIGN	DRAWN	CHK
SCALE 1" = 30'		

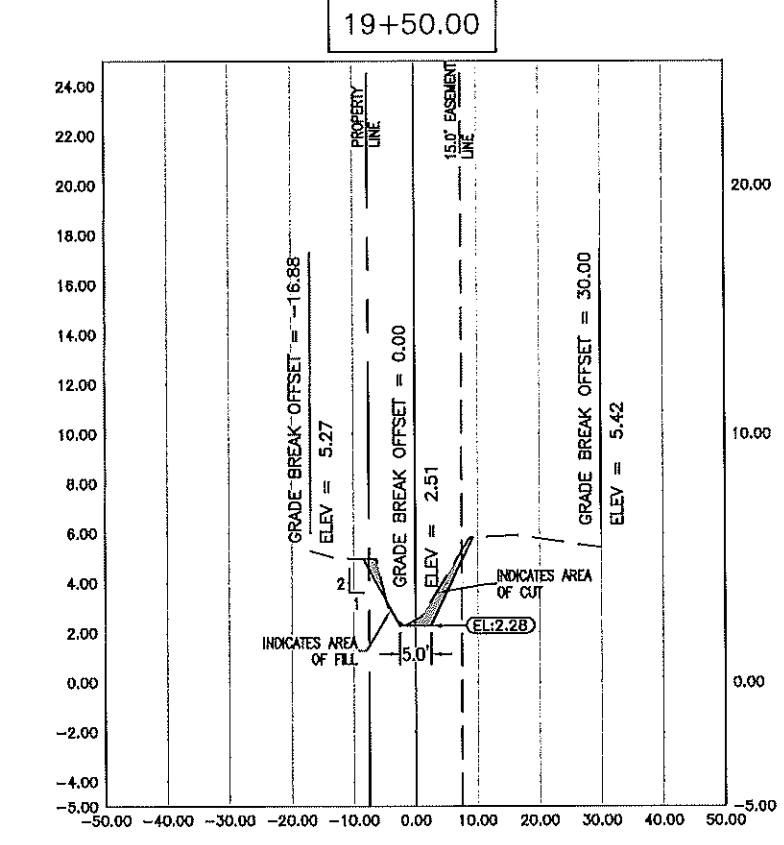
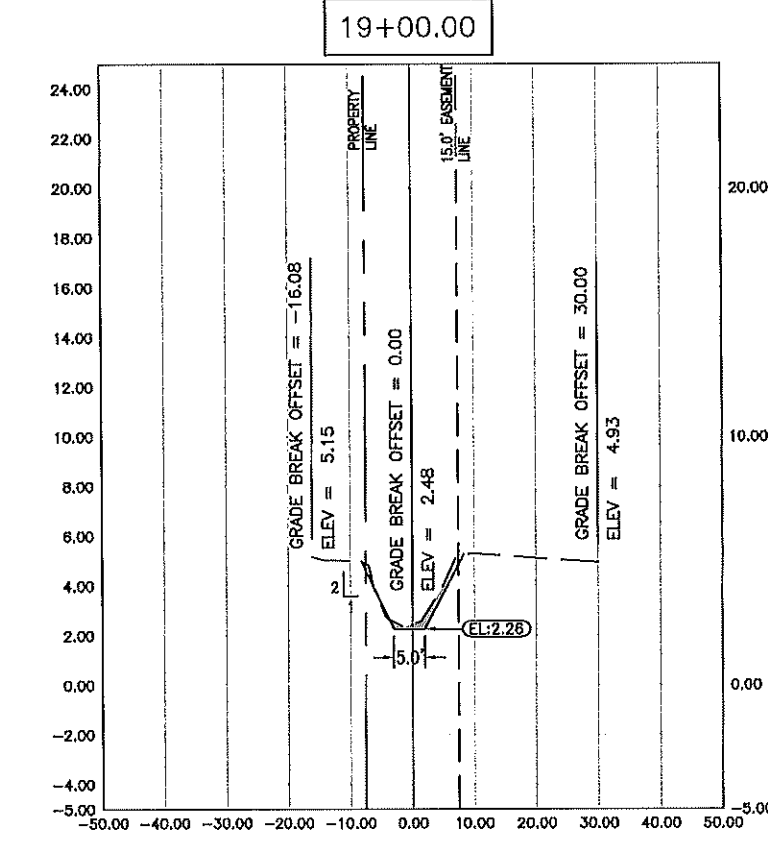
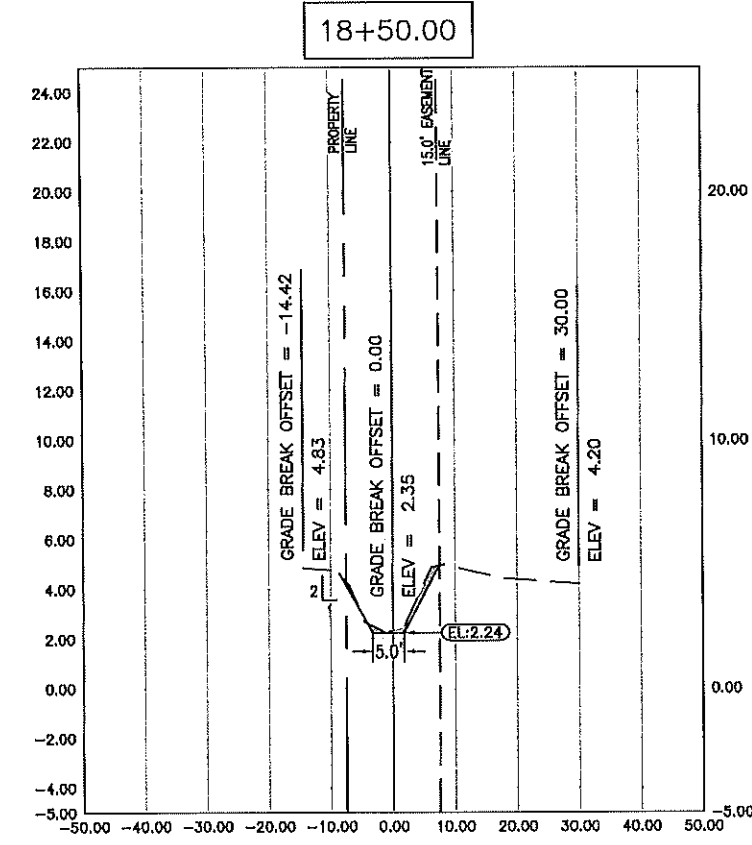
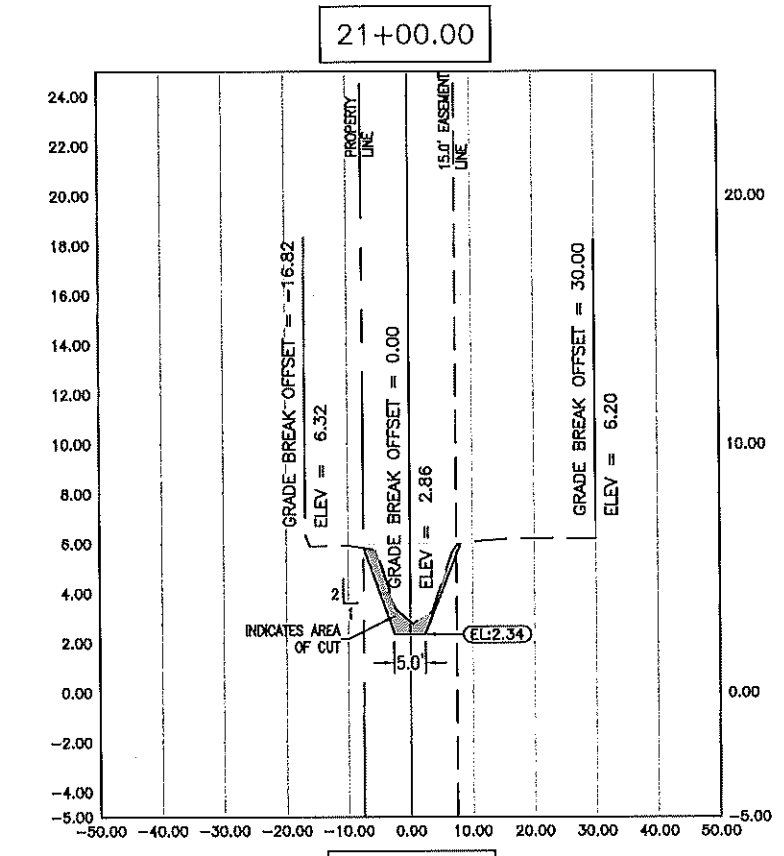
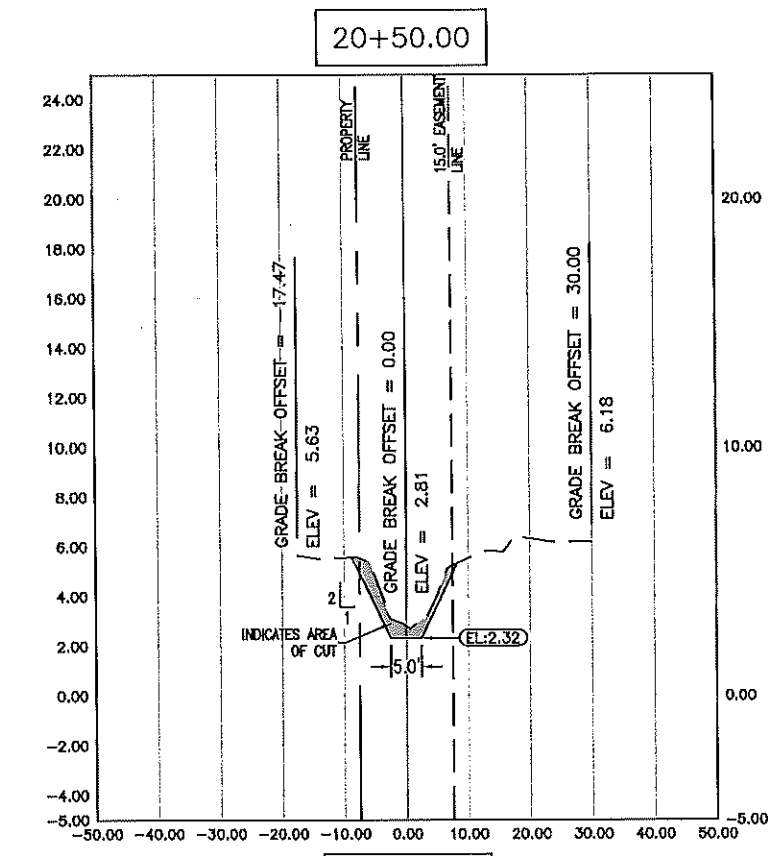
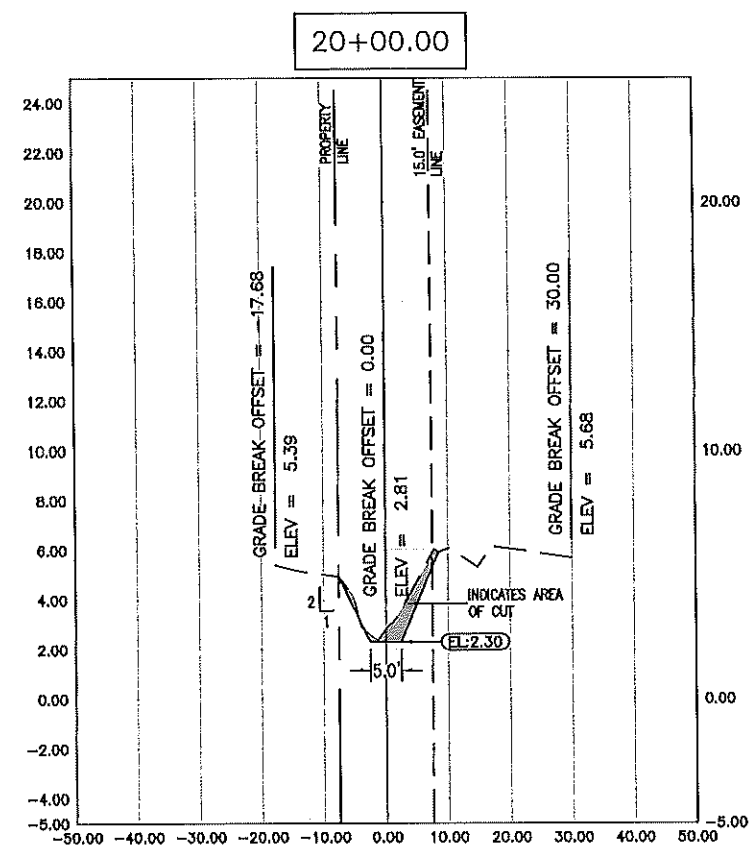
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DRAWING No.	PLAN SH.
DATE	11/2022
SHEET	102



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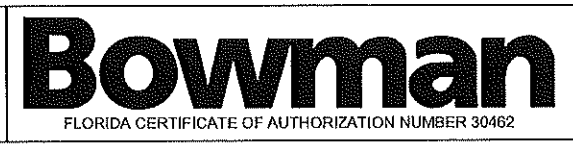


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Poinciana Village
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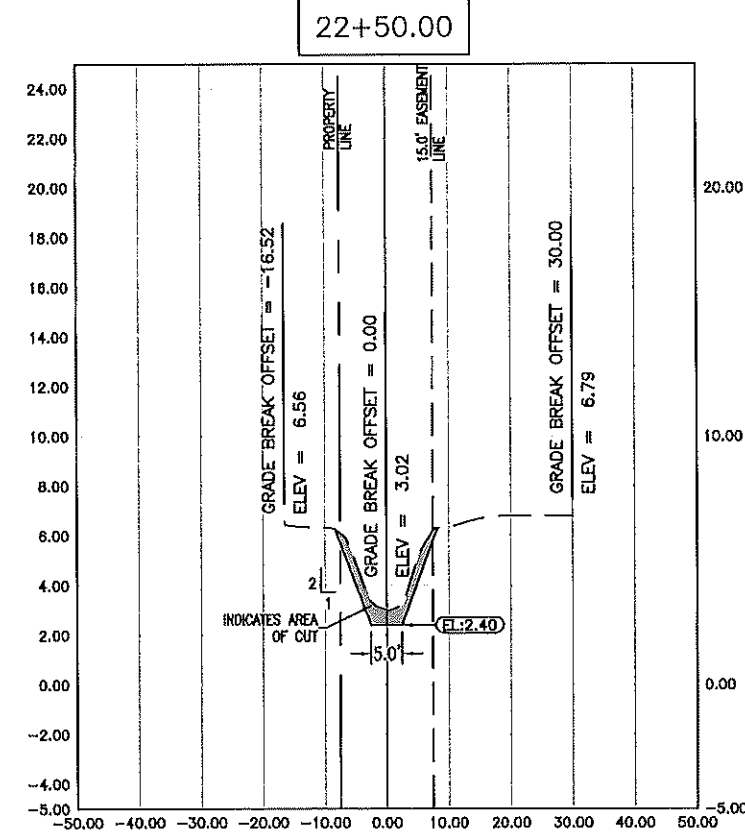
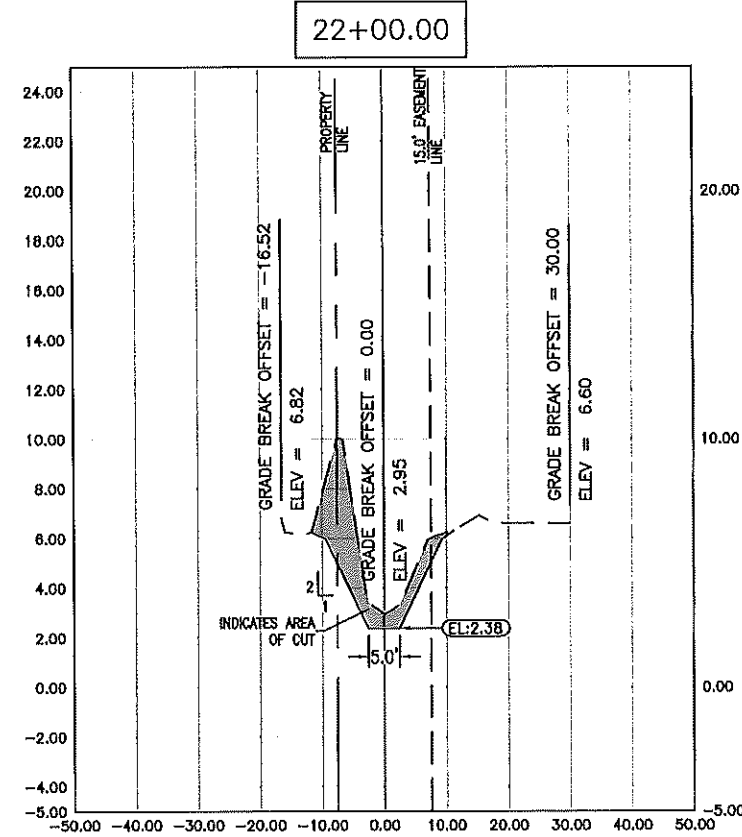
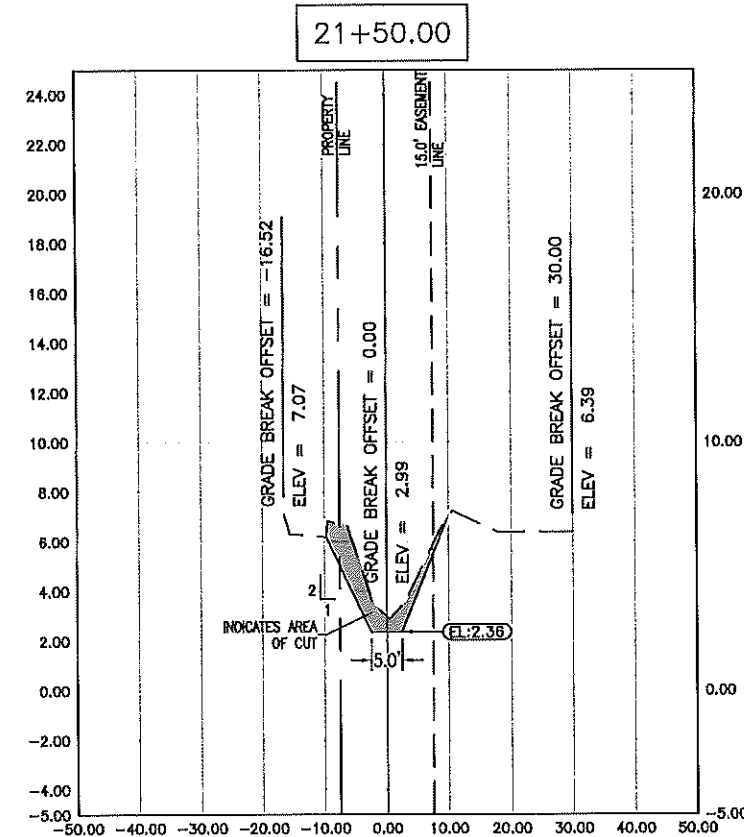
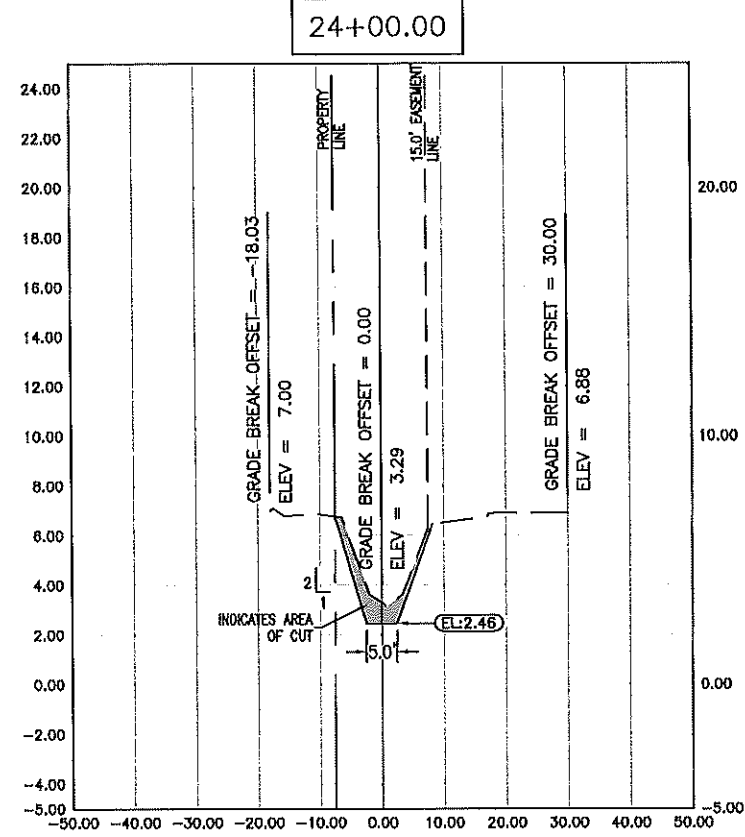
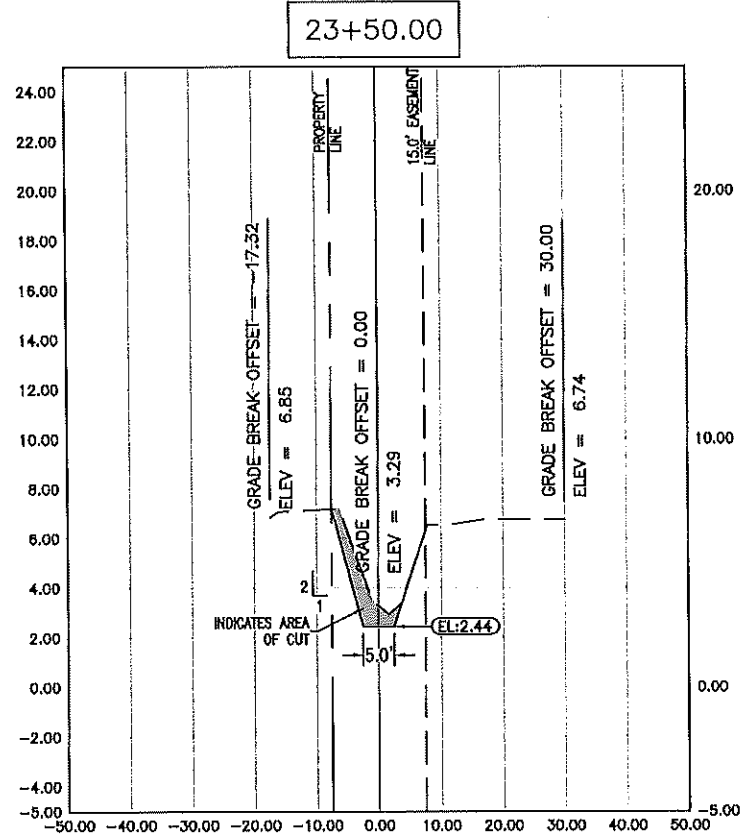
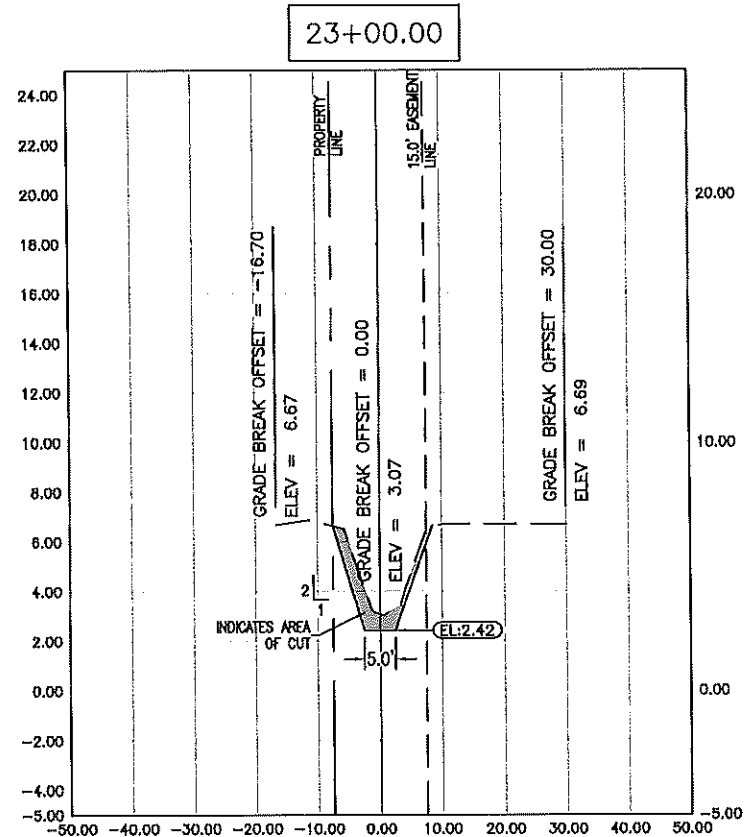
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FL. LICENSE NO. 41671
11/12/2024

KLP	KLP	DWS
DESIGN	DRAWN	CHKD
SCALE	1" = 30'	

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Poinciana Village
Stormwater Improvements
Ditch Cross Sections North

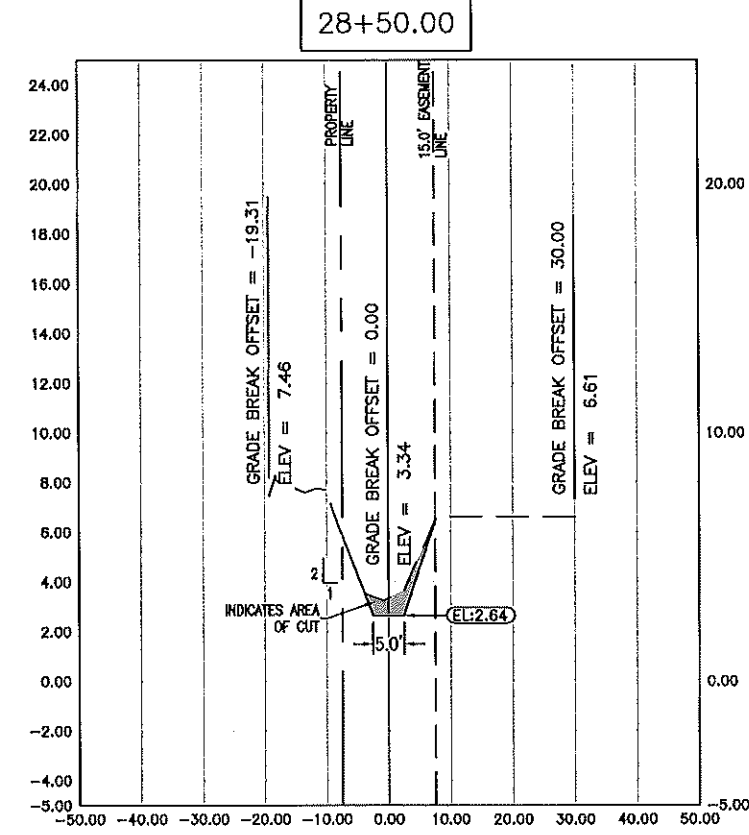
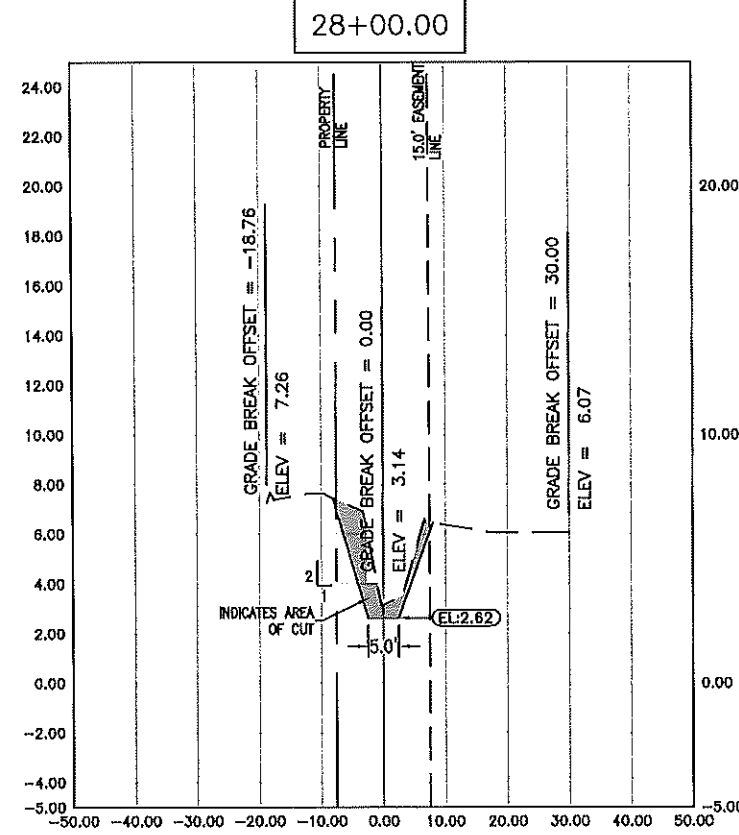
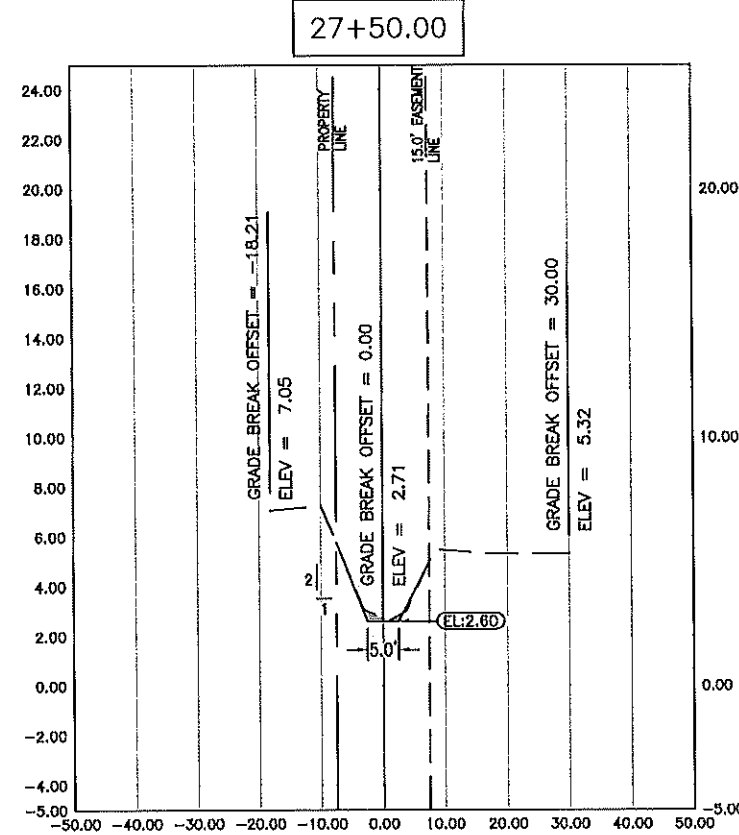
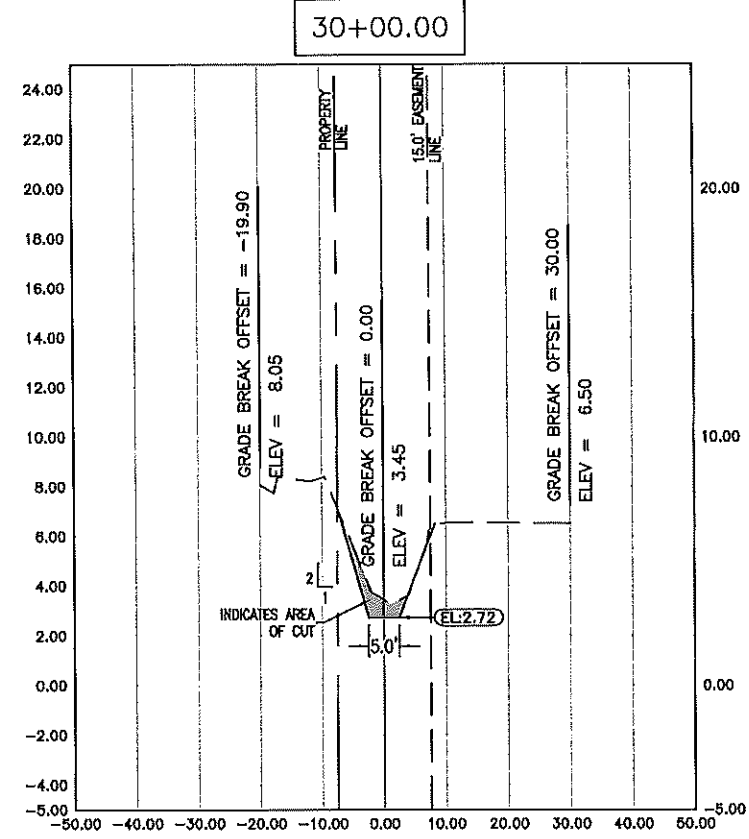
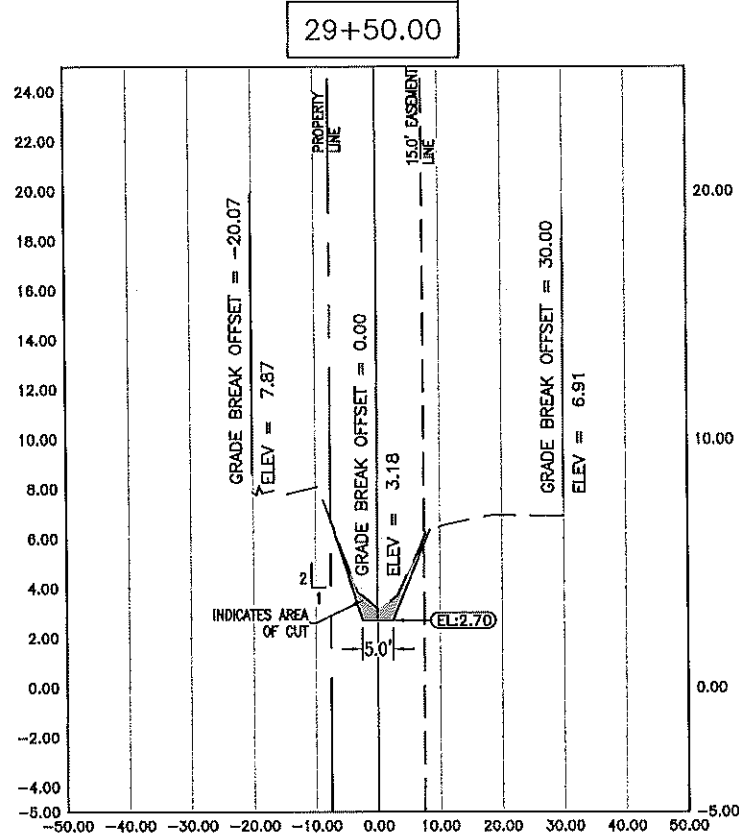
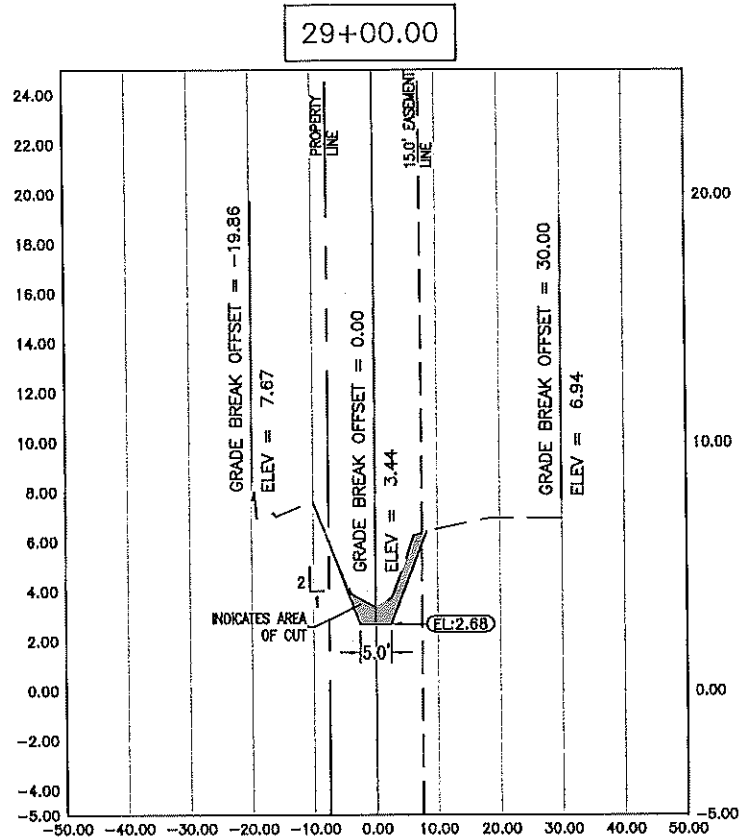
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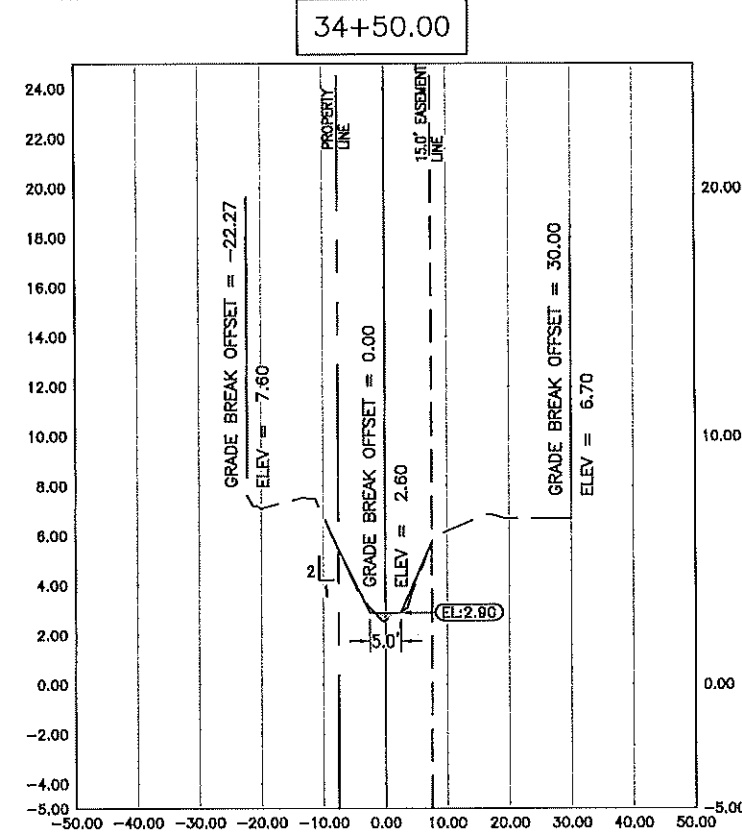
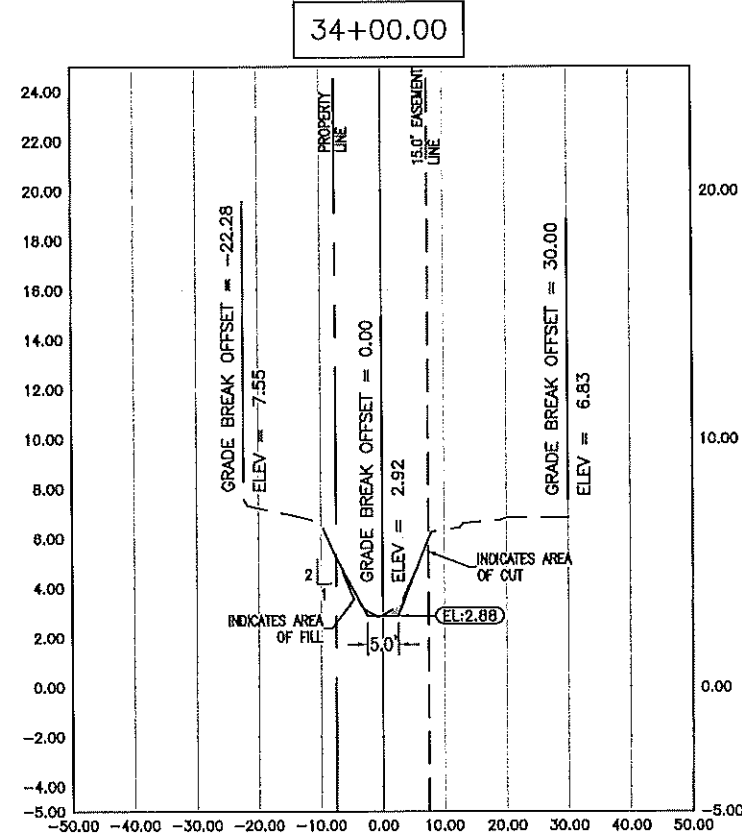
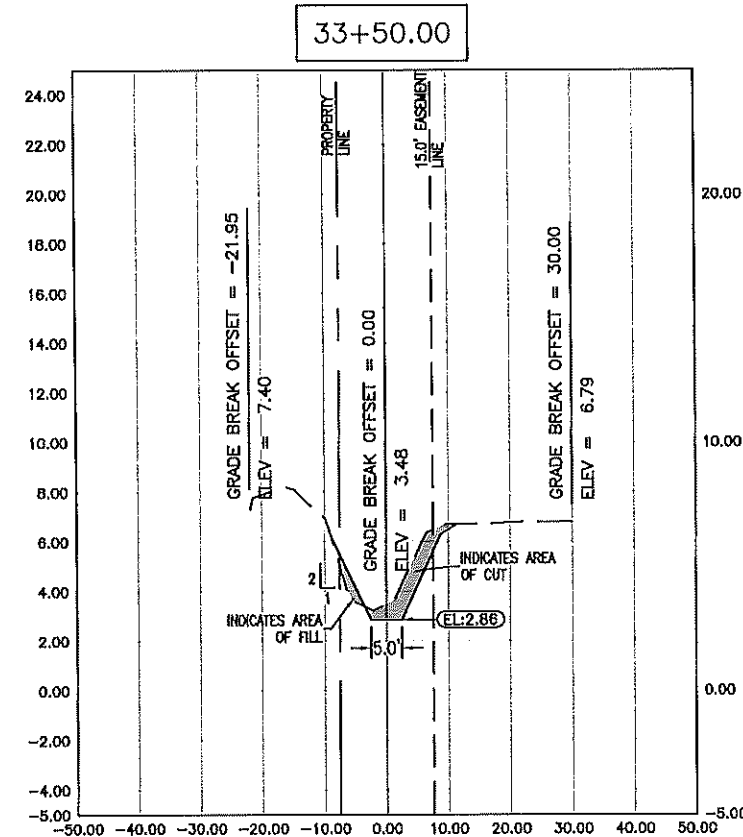
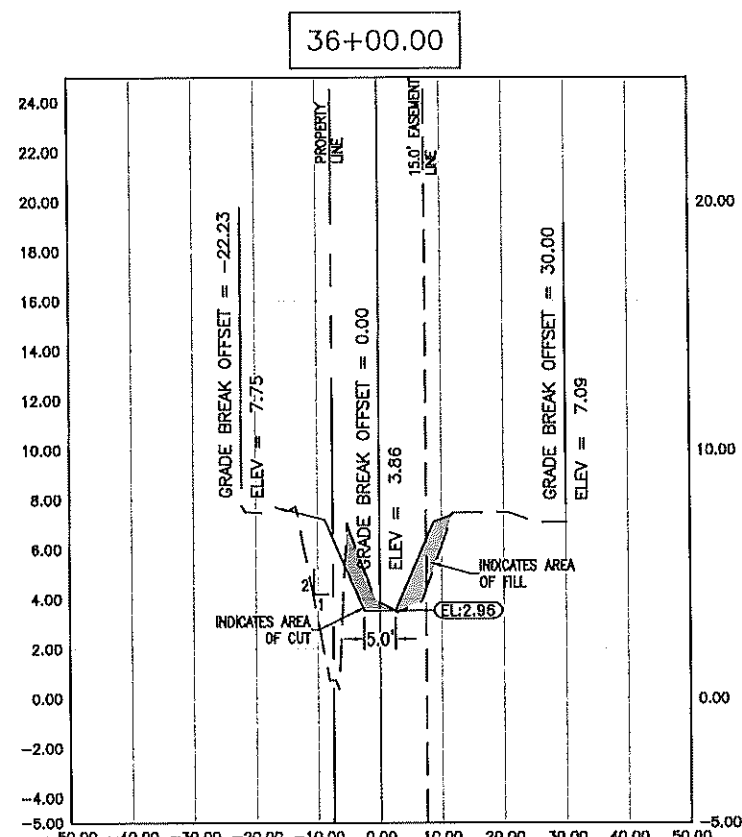
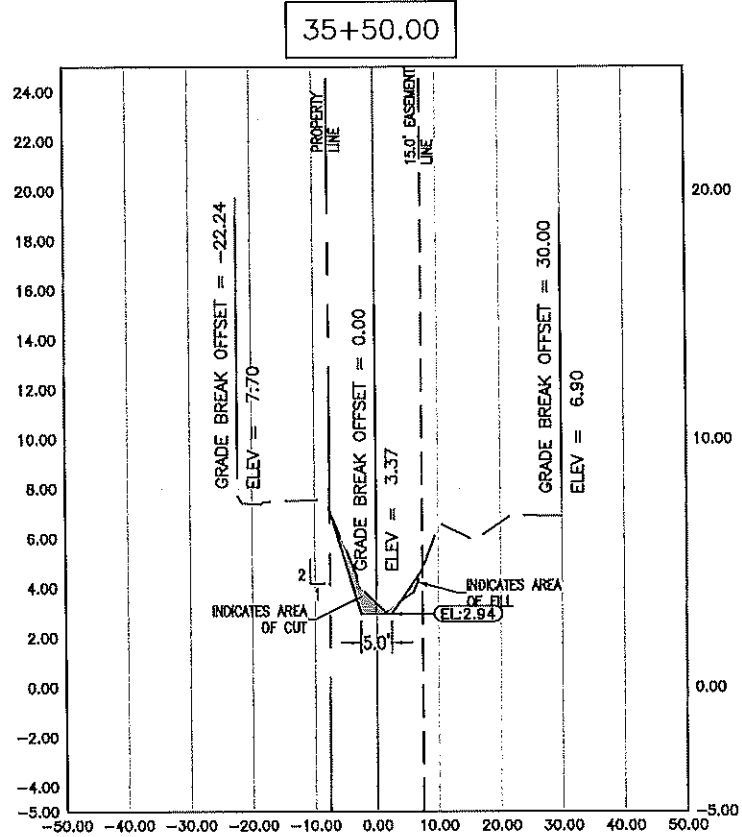
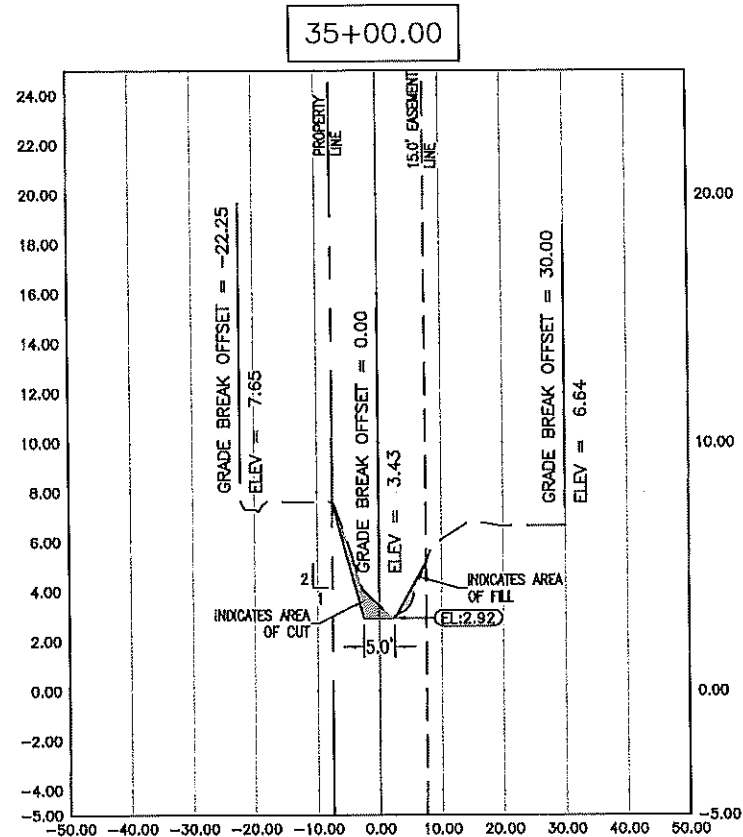
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KLP	KLP	DWS
DESIGN	DRAWN	CHKD
SCALE	1" = 30'	

JOB No.	2021-016
DRAWING No.	PLAN SH.
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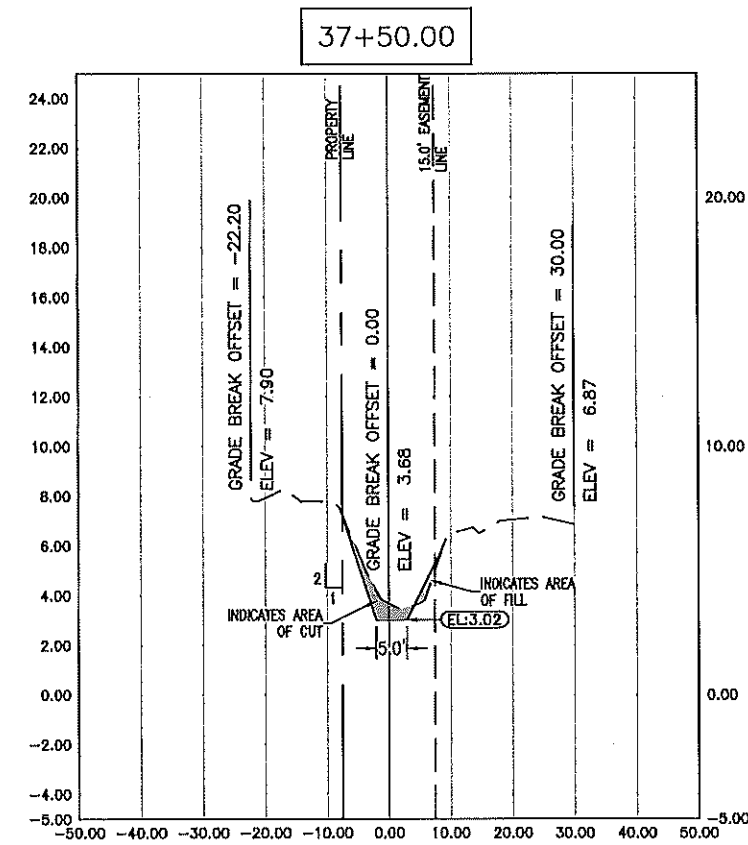
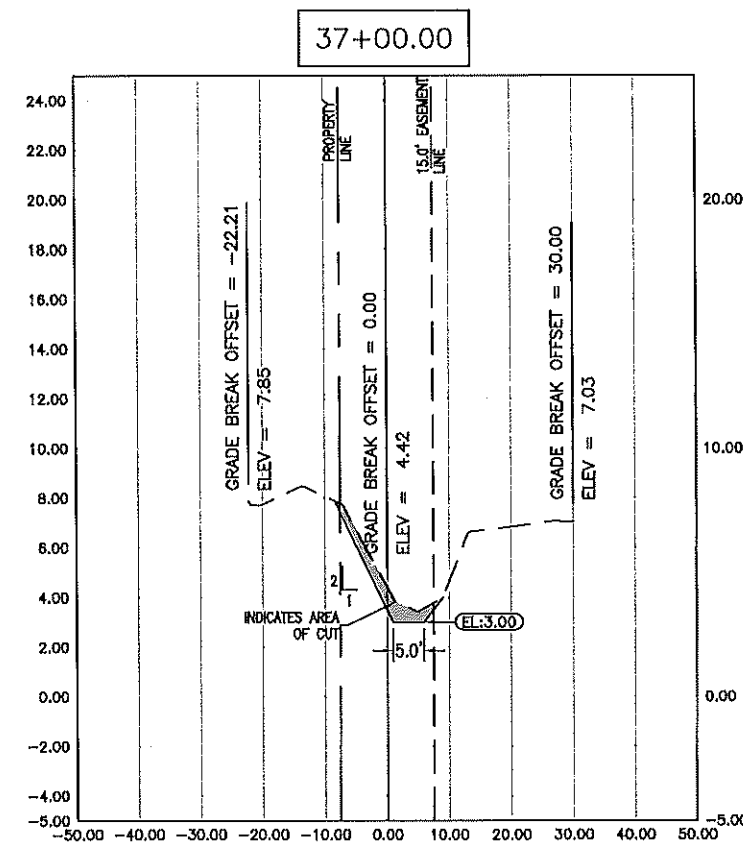
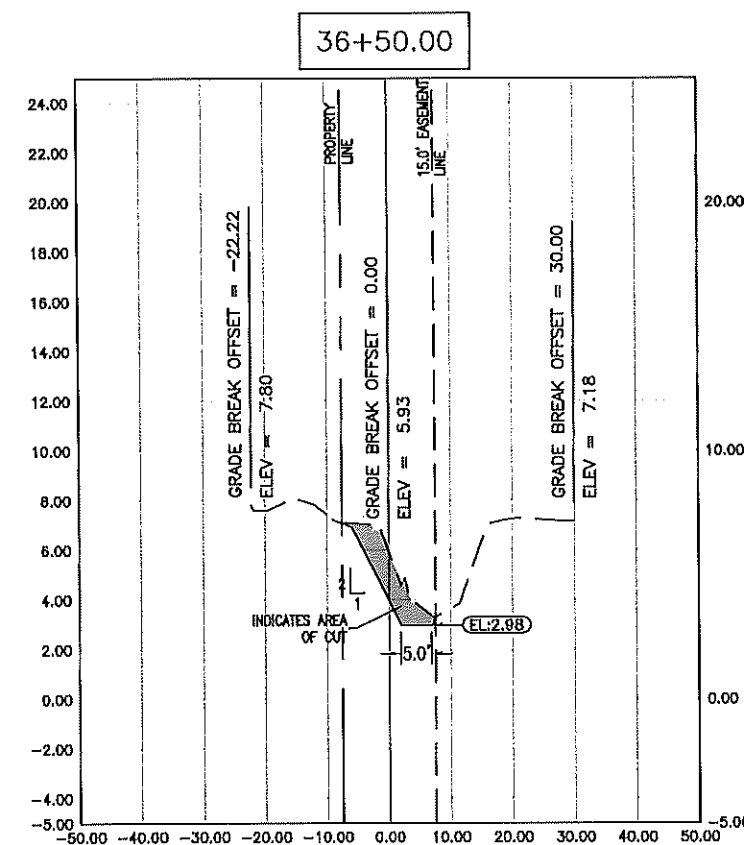
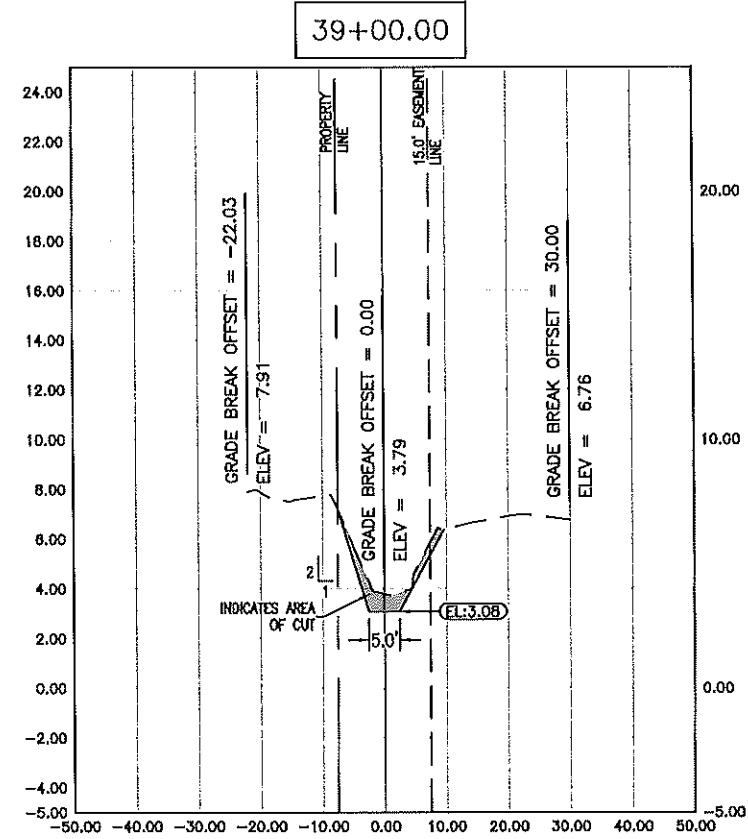
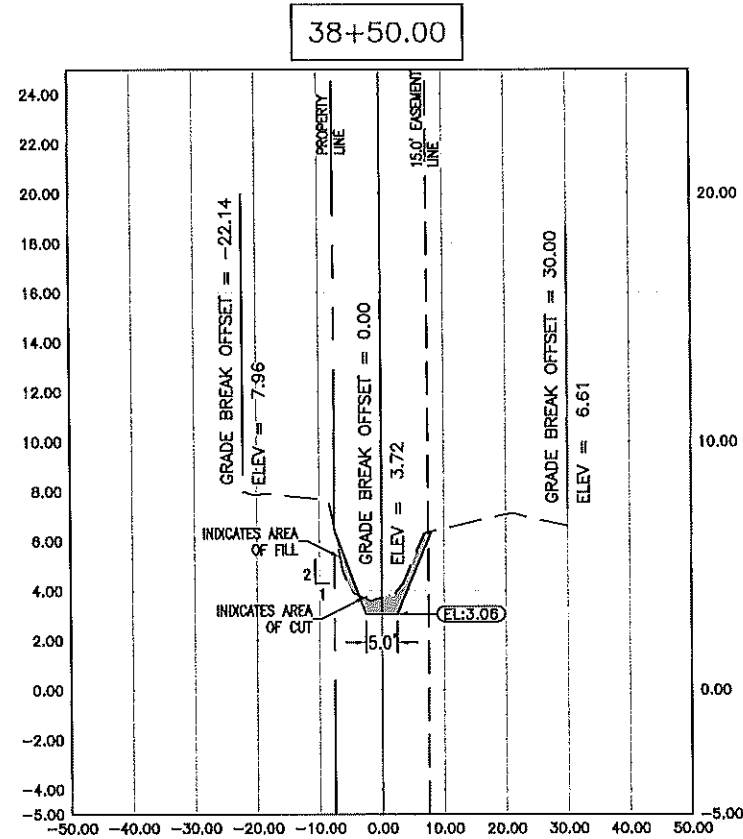
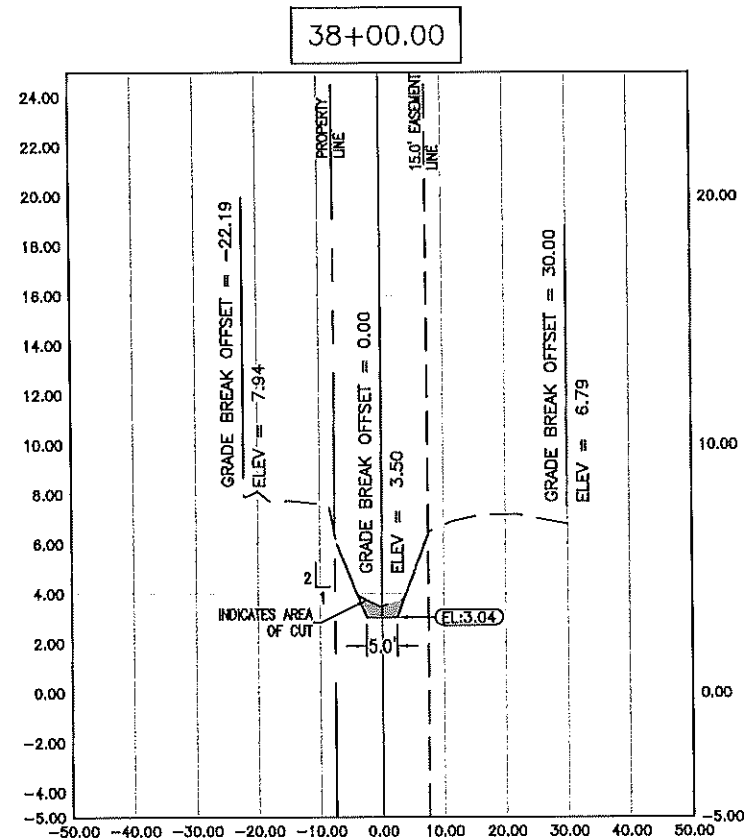
Poinciana Village
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Ditch Cross Sections North

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DESIGN	DRAWN	CHKD
SCALE	1" = 30'	

JOB No.	2021-016
DRAWING No.	PLAN SH.
DATE	11/2022
SHEET	110



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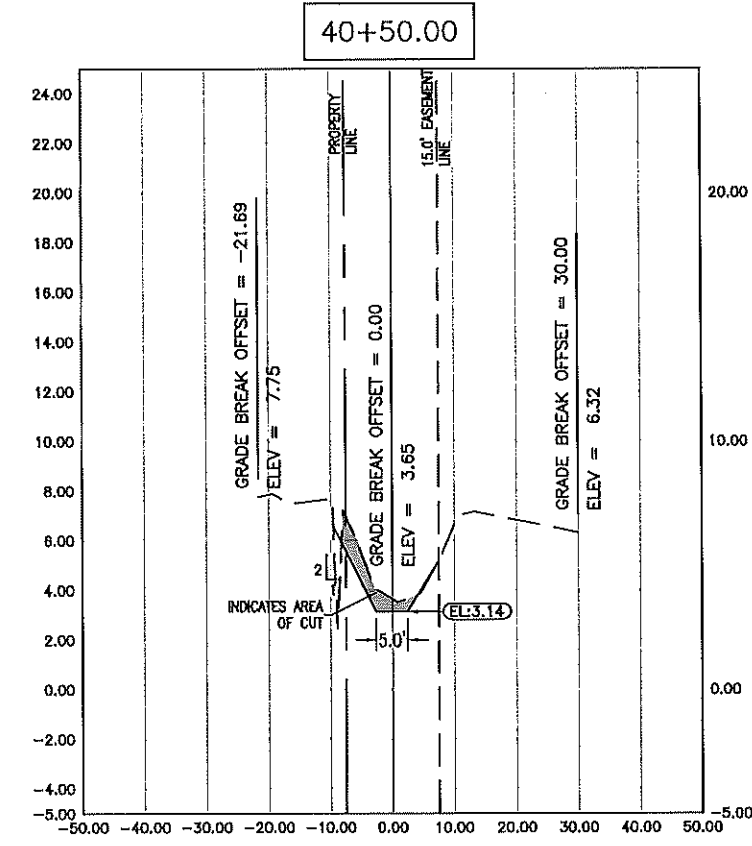
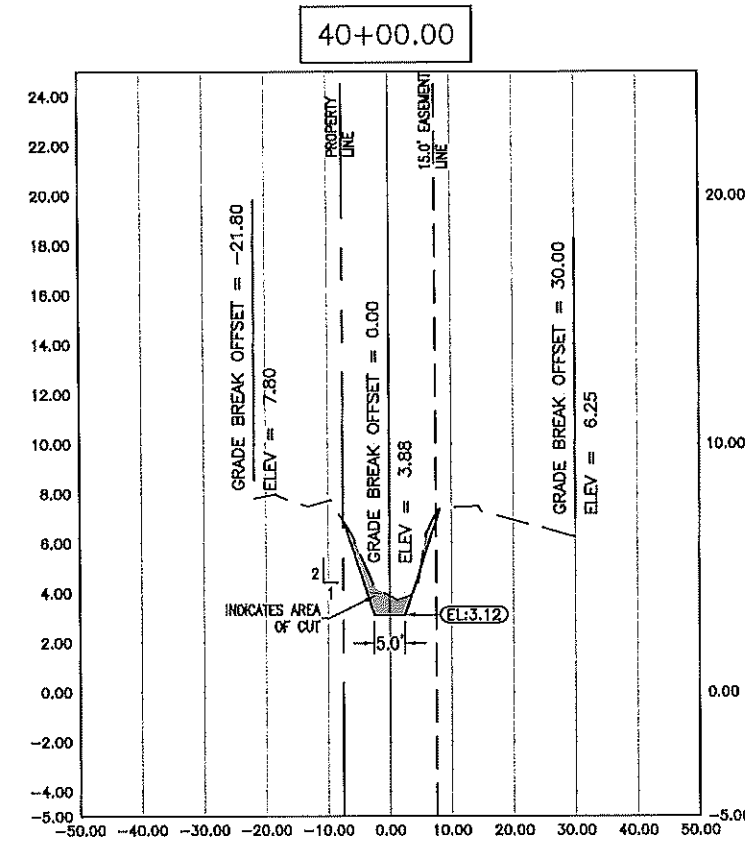
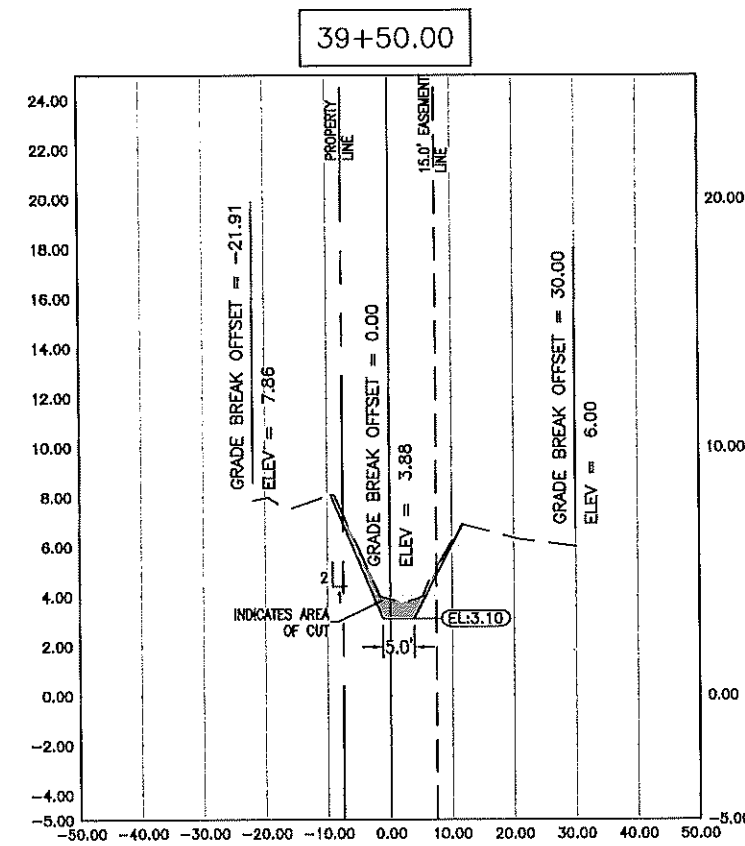
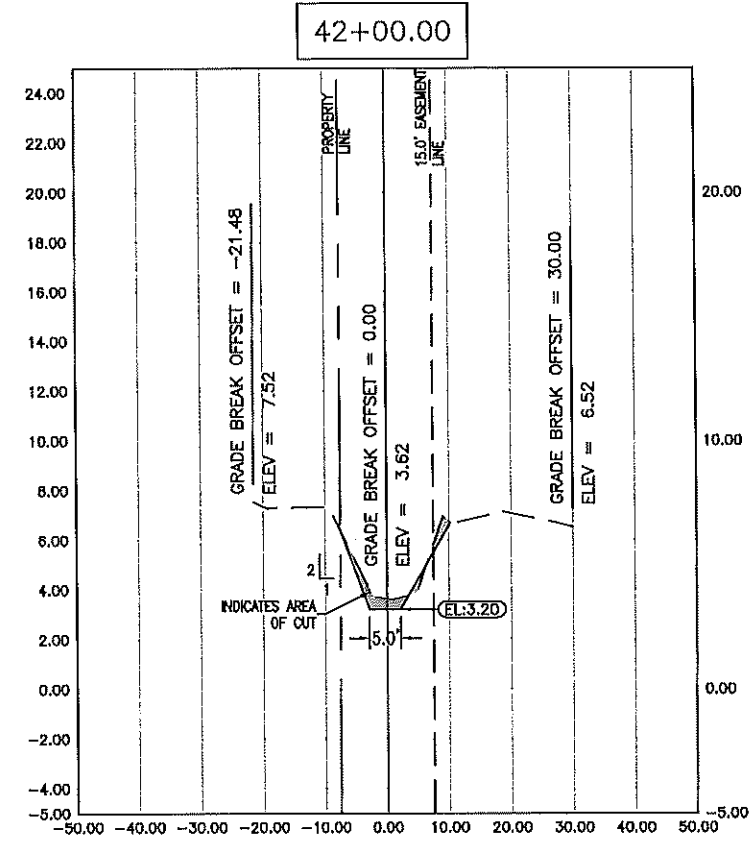
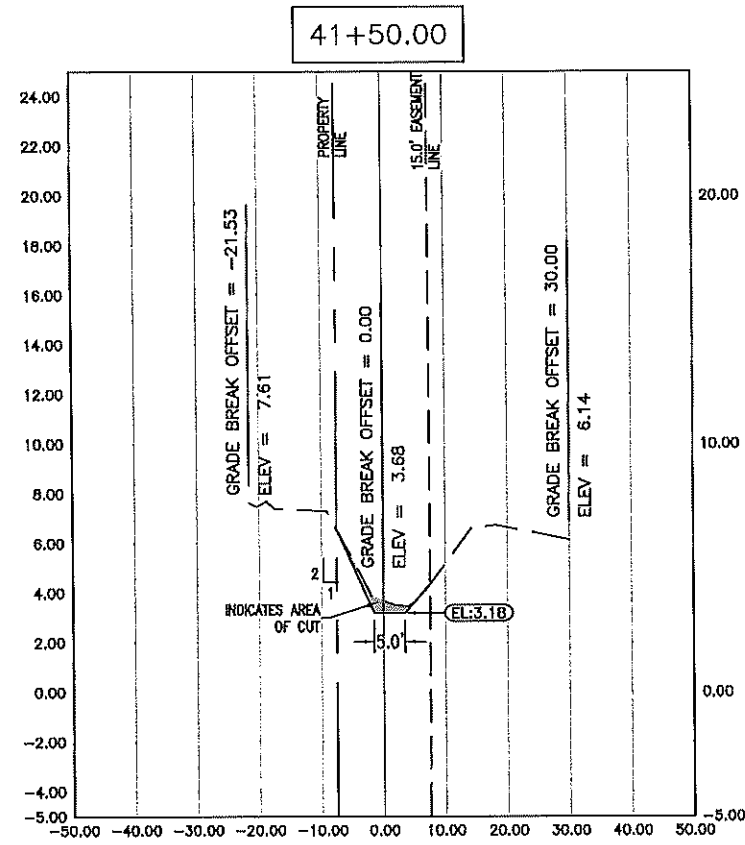
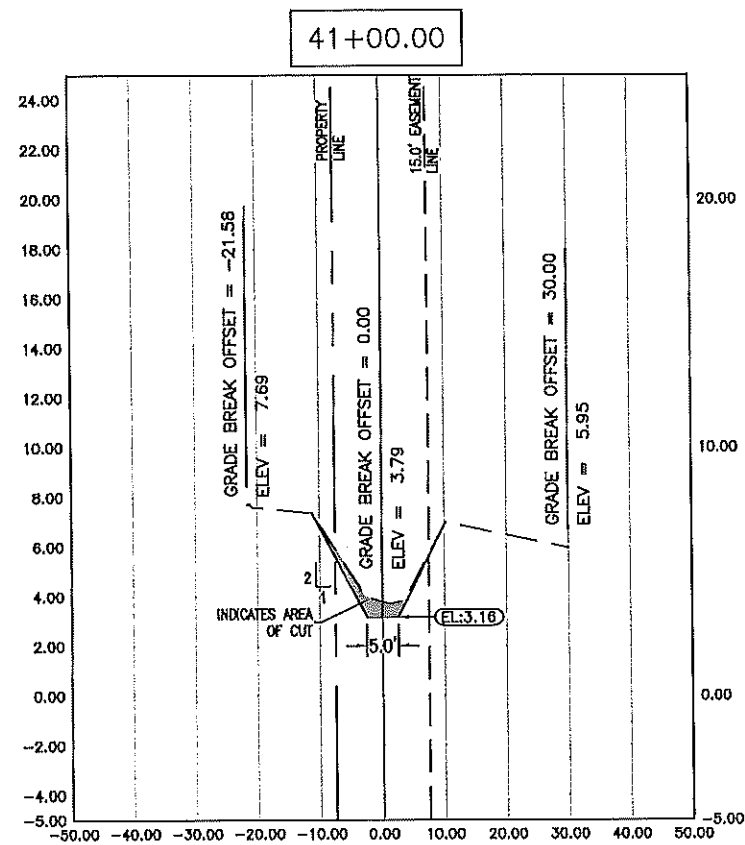
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11/12/2024

KLP	KLP	DW
DESIGN	DRAWN	CHK
SCALE 1" = 30'		

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	DRAWING No.	PLAN SH.
	DATE	11/2022
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11/12/2024

KLP

DESIGN

SCALE

KLP

DRAWN

1st

DWS

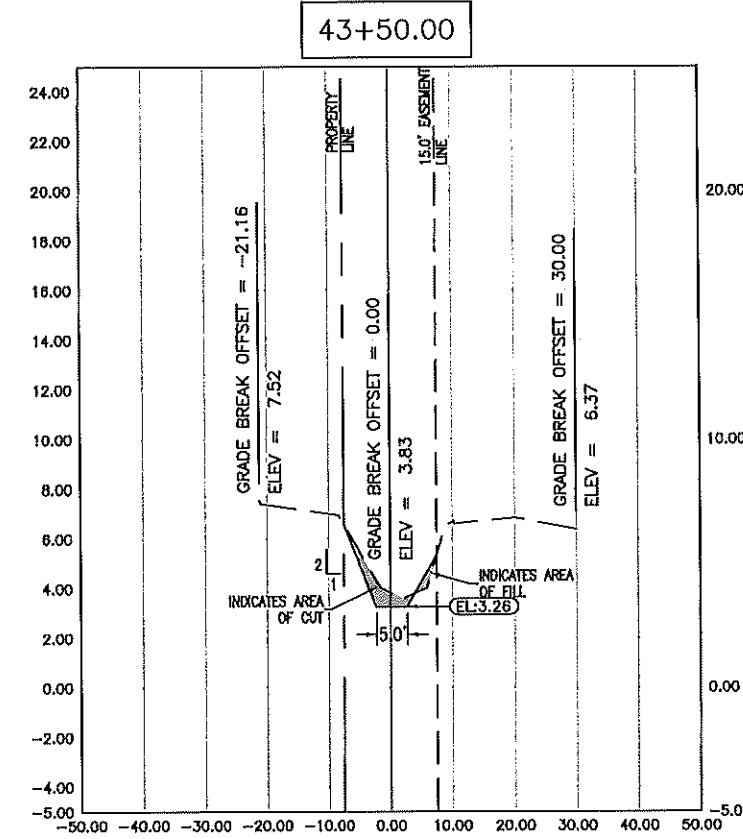
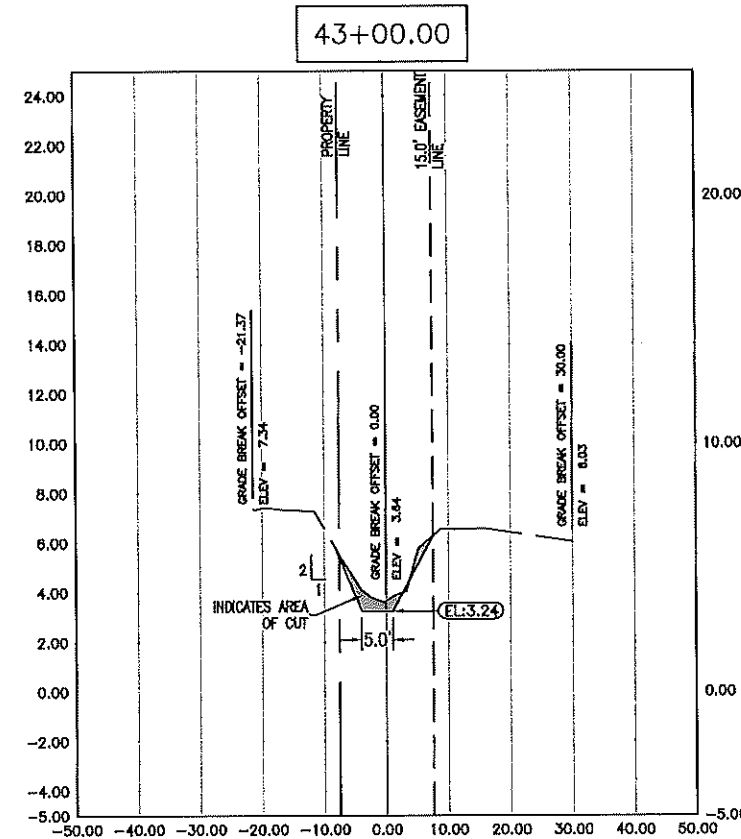
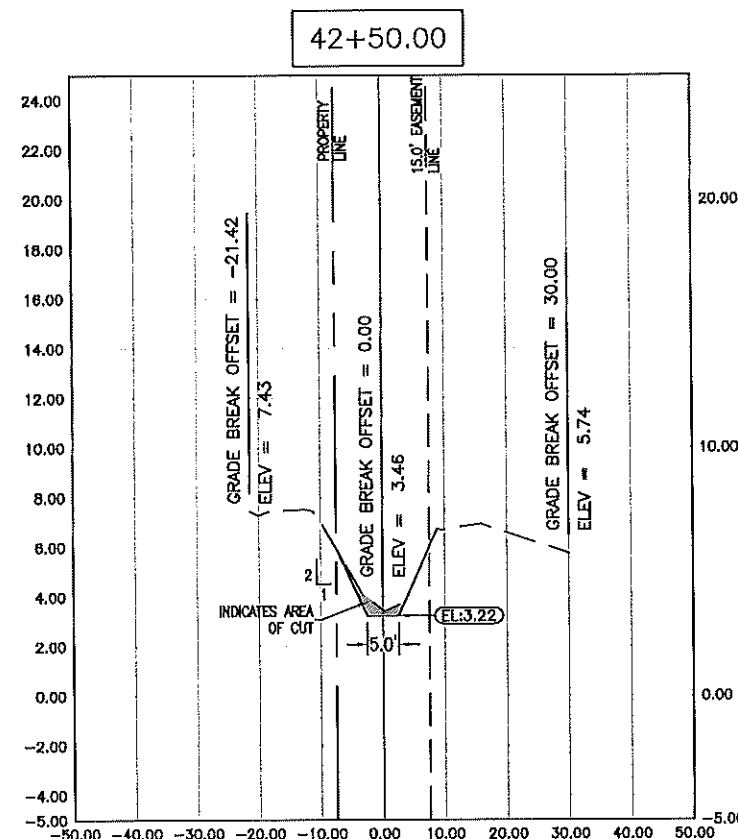
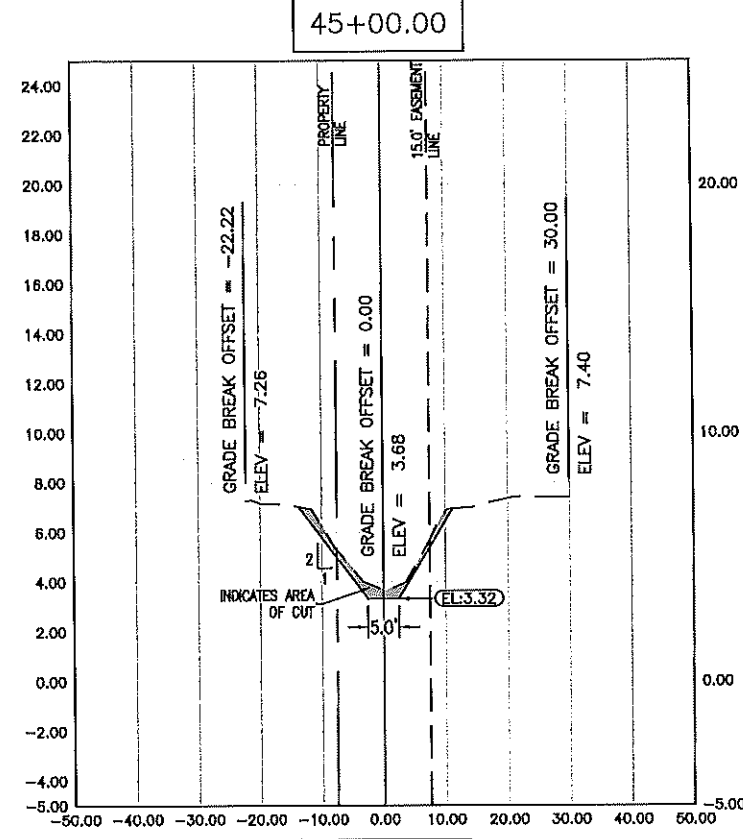
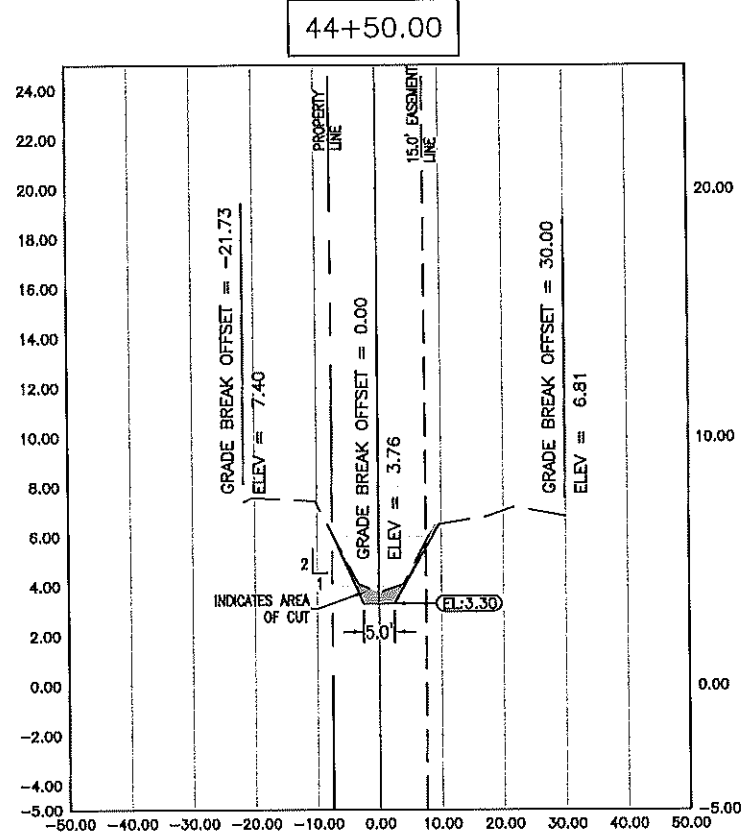
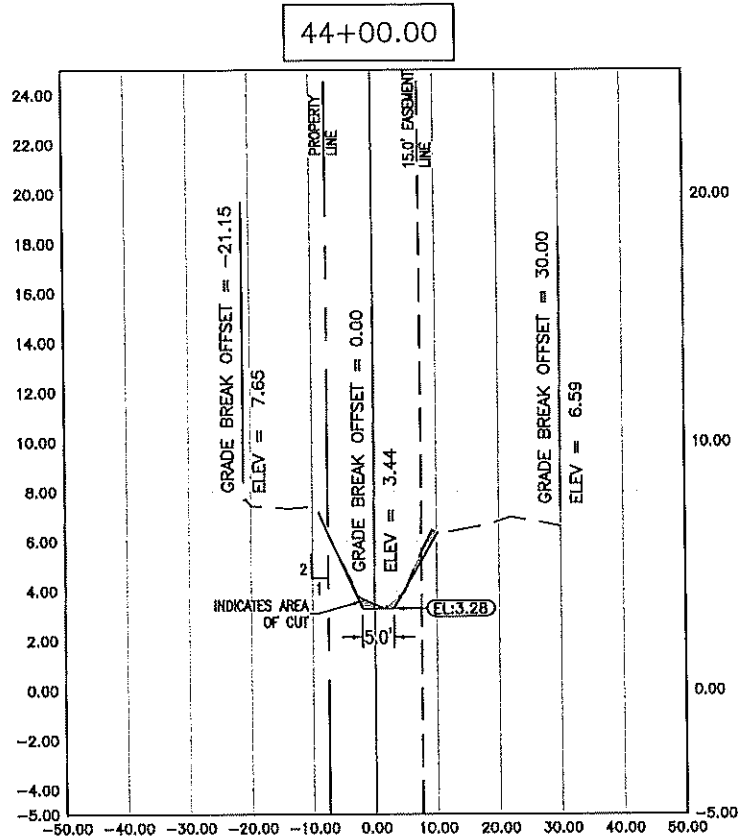
CHKD

30'

JOB No.	2021-016
DRAWING No.	PLAN SH.
DATE	11/2022
SHEET	112

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CAJ 06/06/2024 09:00:00 User:Vernon\Documents\Projects\2021\2021-016\11/12/2022



NOTE:
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WORK TO BE PERFORMED OUTSIDE OF
EASEMENT AREA. WORK SHALL BE
LIMITED GRADING OF DITCH BOTTOM,
REMOVAL OF VEGETATION, RESHAPING
OF SLOPE (NO CUT OR FILL),
INSTALLATION OF REINFORCING MAT
(PIN ONLY, NO TERMINAL CHANNEL
OUTSIDE OF EASEMENT), AND
INSTALLATION OF SOD.



Collier County
TRANSPORTATION
MANAGEMENT SERVICES

REV.	DESCRIPTION	DATE

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FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER 30462

Poinciana Village
Stormwater Improvements
Ditch Cross Sections North

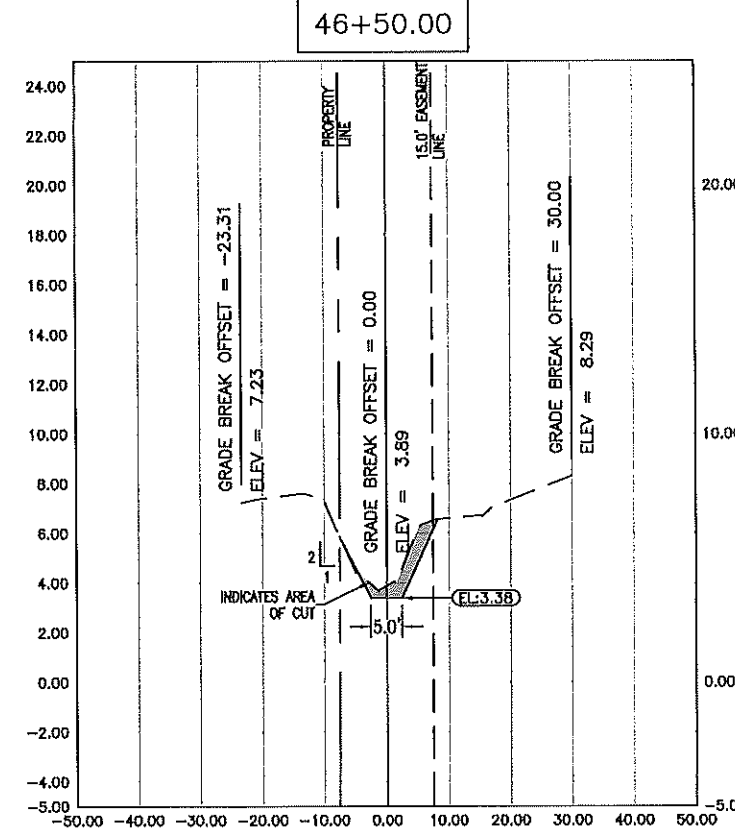
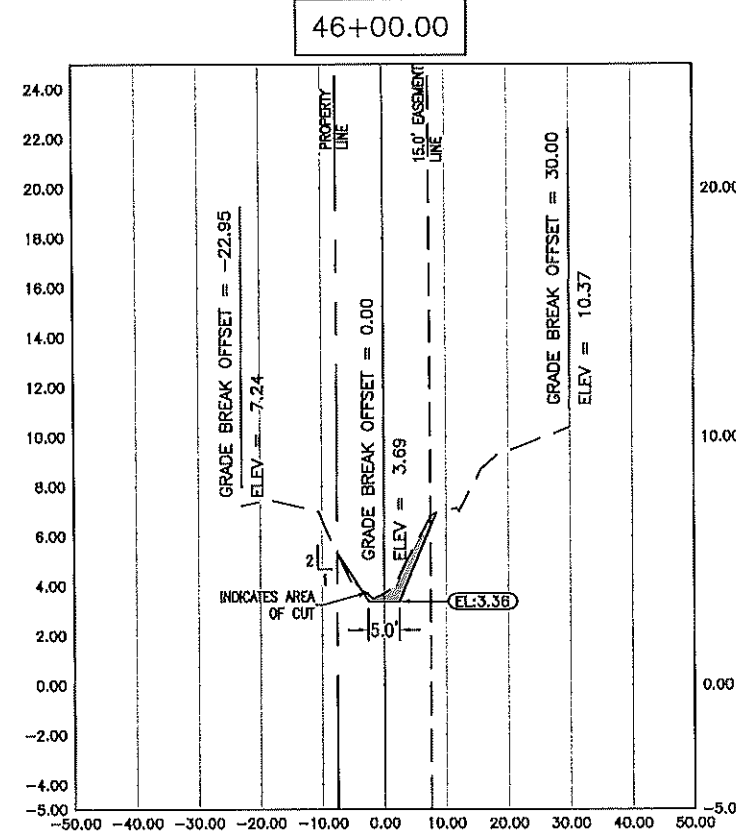
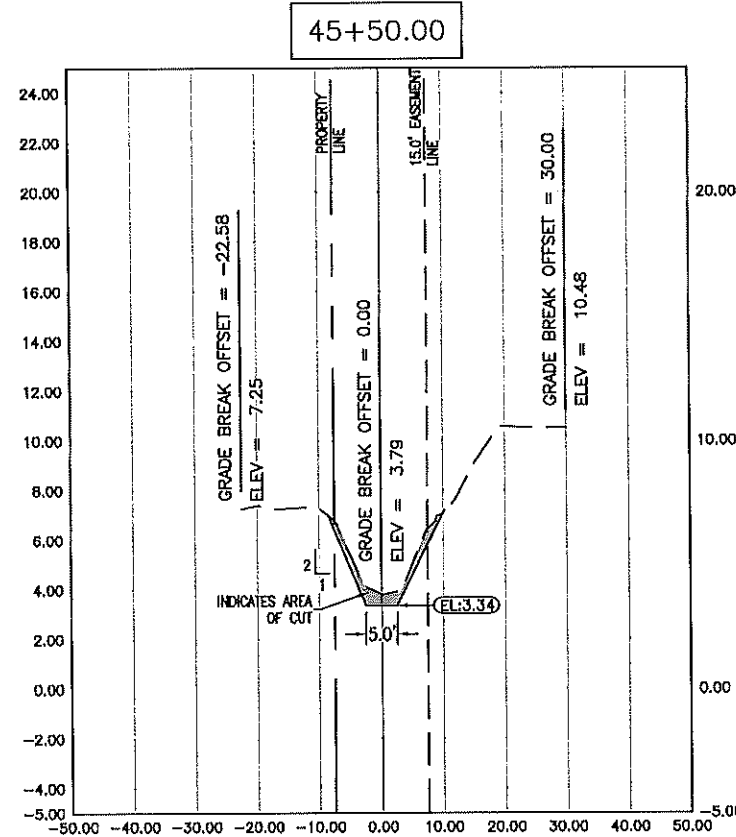
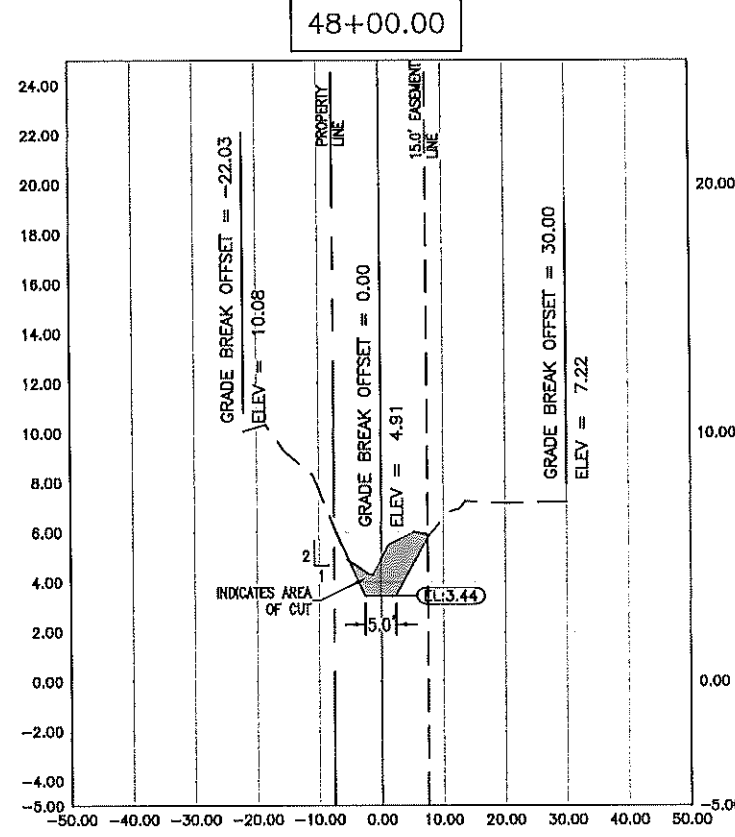
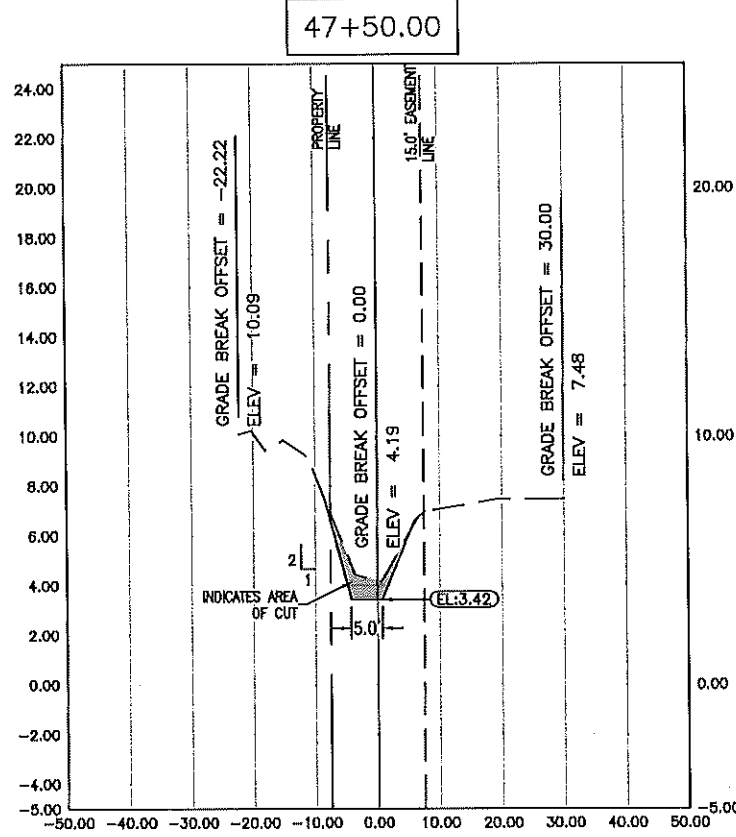
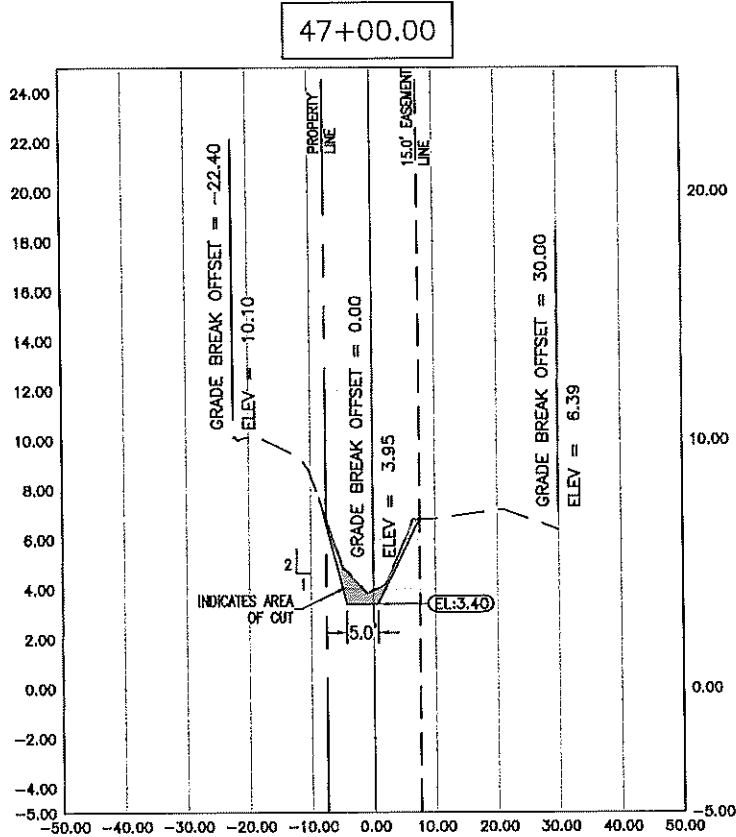
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FL. LICENSE NO. 41871
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DESIGN	DRAWN	CHKD
SCALE	1" = 30'	

JOB No.	2021-016
DRAWING No.	PLAN SH.
DATE	11/2022
SHEET	113

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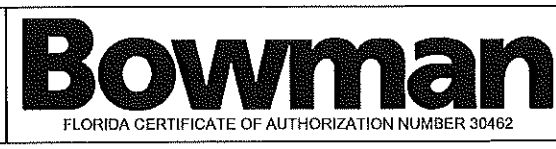


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Poinciana Village
Stormwater Improvements
Ditch Cross Sections North

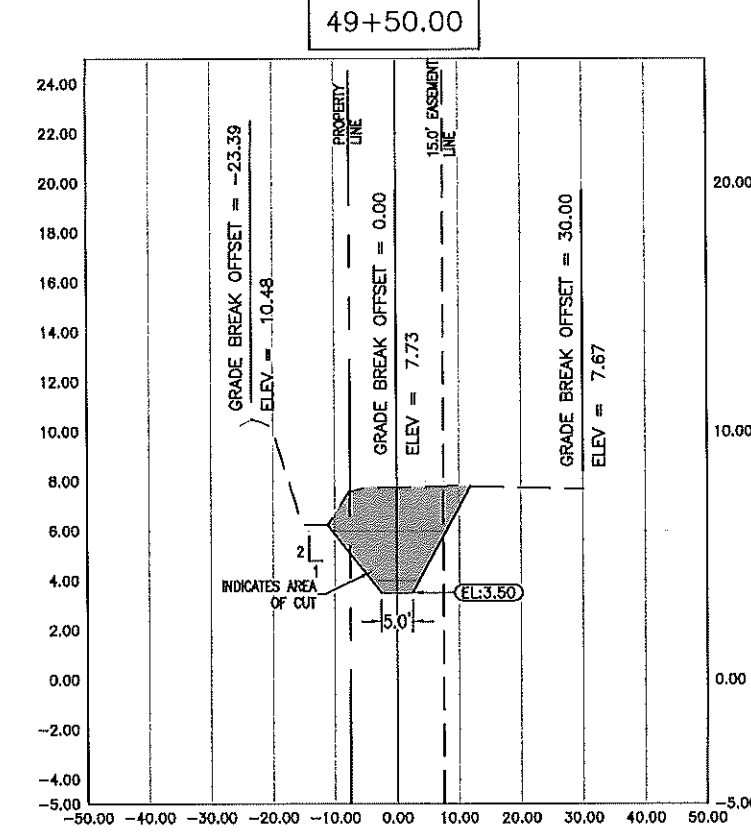
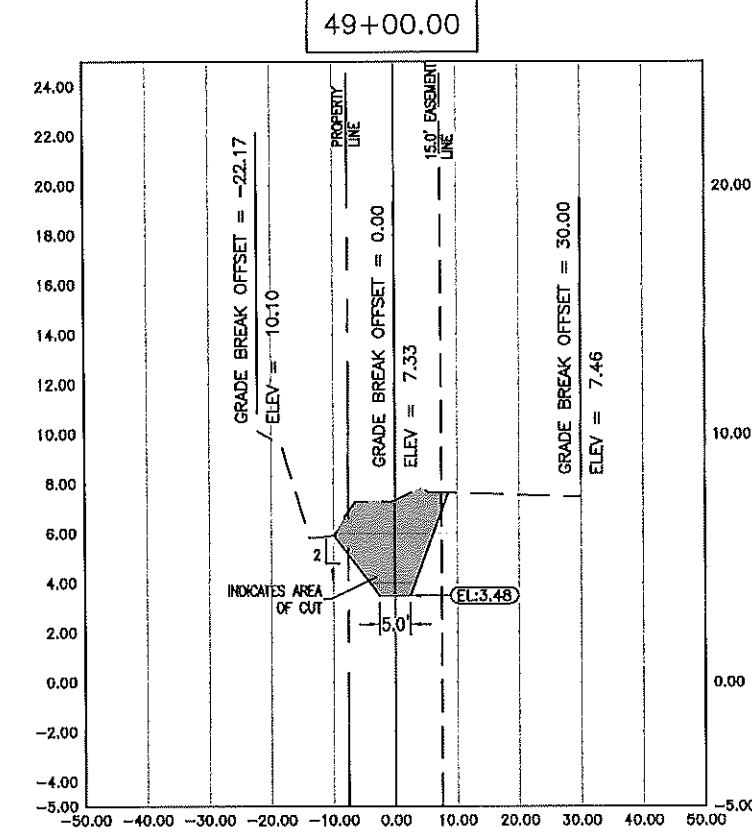
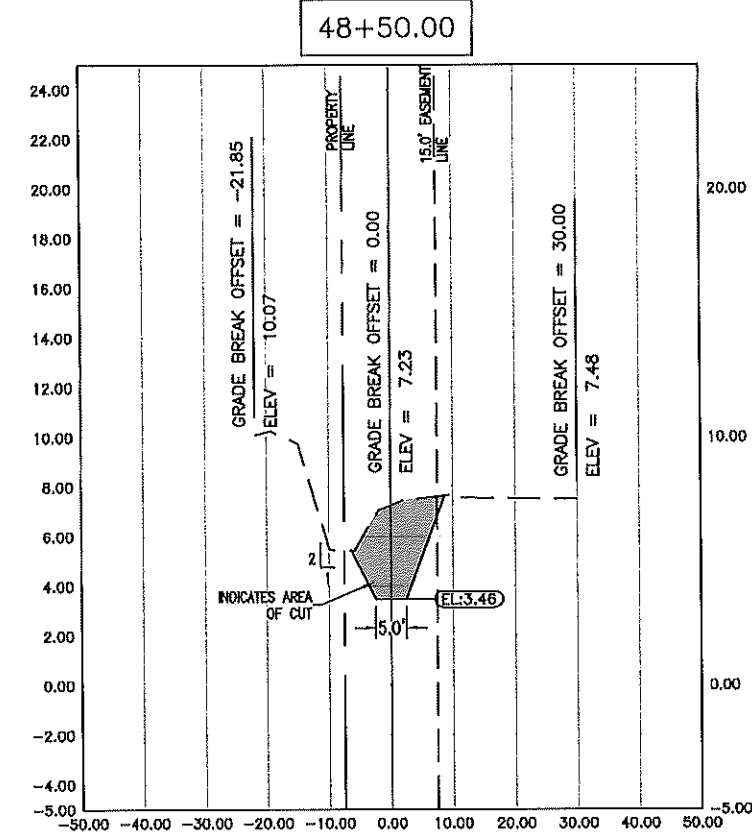
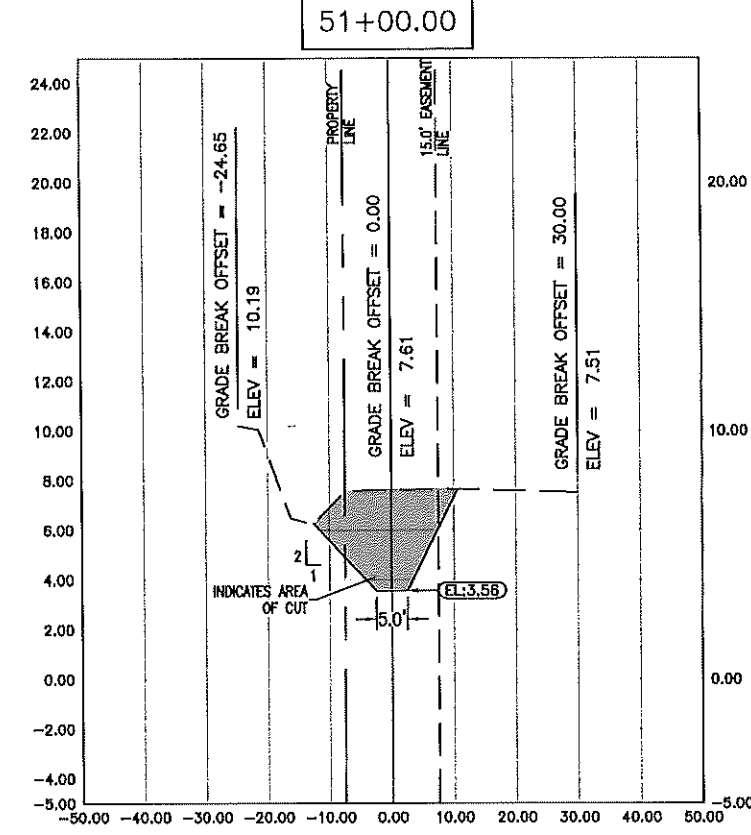
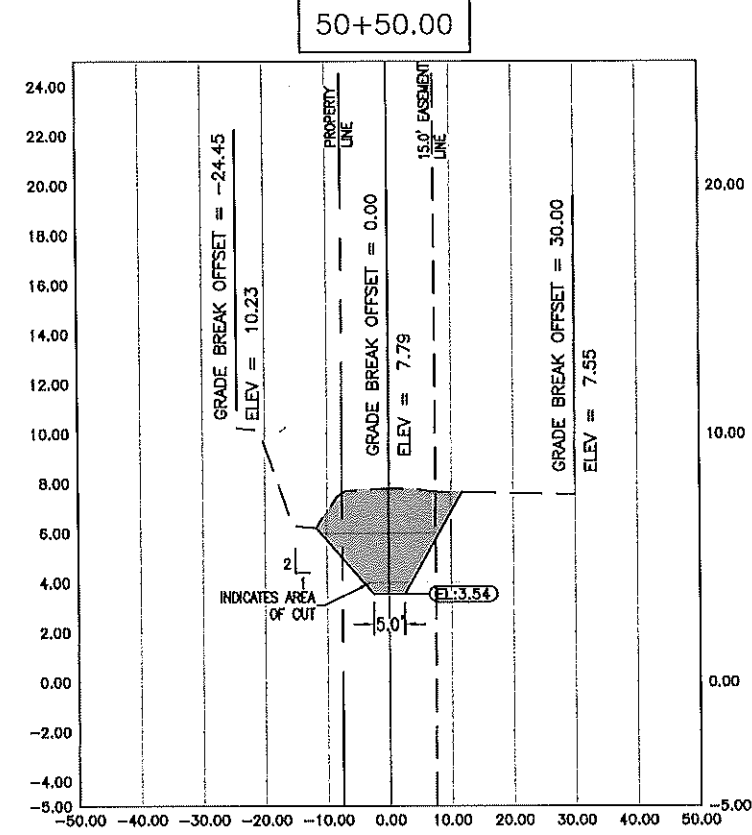
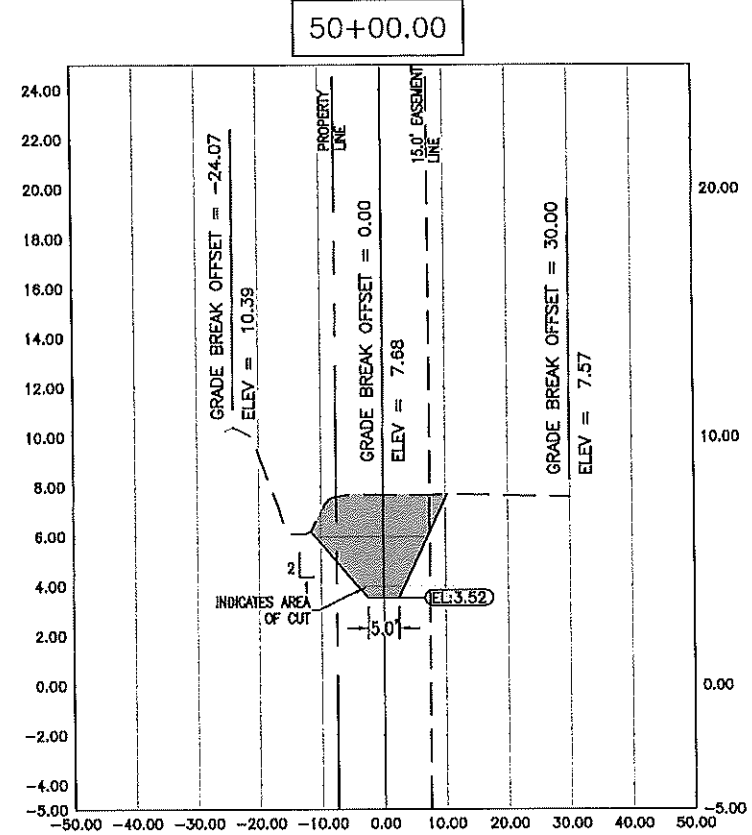
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SCALE	1" = 30'	

JOB No.	2021-016
DRAWING No.	PLAN SH.
DATE	11/2022
SHEET	114

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Poinciana Village
Stormwater Improvements
Ditch Cross Sections North

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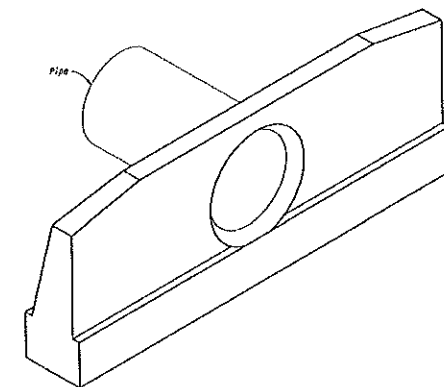
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DESIGN	DRAWN	CHKD
SCALE	1" = 30'	

JOB No.	2021-016
DRAWING No.	PLAN SH.
DATE	11/2022
SHEET	115

On the record: C:\Users\Nelson\Documents\Projects\Book\WP\3221018-Draft.docx 8/22/2025

GENERAL NOTES:

1. Use Class II concrete.
2. Reinforcing steel is either Grade 40 or 60.
3. Endwalls may be cast in place or precast concrete. (Additional reinforcement necessary for handling precast units will be determined by the Contractor at the supplier).
4. Channel all exposed edges and corners to R^2 .
5. Endwall dimensions, locations and positions are for round and elliptical concrete pipe and for round and pipe-arch corrugated metal pipe. Round concrete pipe shown.
6. On tailcut ditches with side slopes flatter than 1:1.5 provide 20' transition from the roadway to the ditch side slopes, right of way permitting.
7. Construct front slope and ditch transitions in accordance with Index A30-00.
8. Structures shown are for estimating purposes only.



= STRAIGHT CONCRETE ENDWALL

TABLE OF CONTENTS:	
Sheet	Description
1	General Notes and Comments
2	Concrete Endwall Details
3	Concrete and Relief Pipe Tables
4	Sealing for Multiple Pipes

LAST REVISION 11/01/21	DESCRIPTION:	 FY 2025-26 STANDARD PLANS	STRAIGHT CONCRETE ENDWALLS SINGLE AND MULTIPLE PIPE	INDEX 430-030	SHEET 1 of 4
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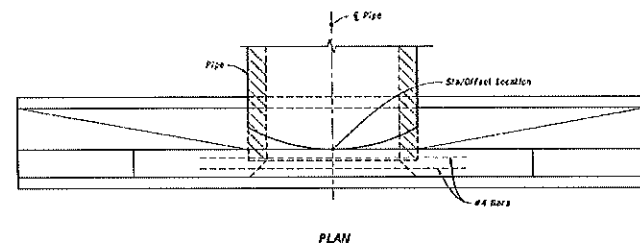
NOTES:

1. Dimension K is calculated as: $K = Y \cdot SEC \cdot n$.
2. Select tabular quantities using skew values as follows:

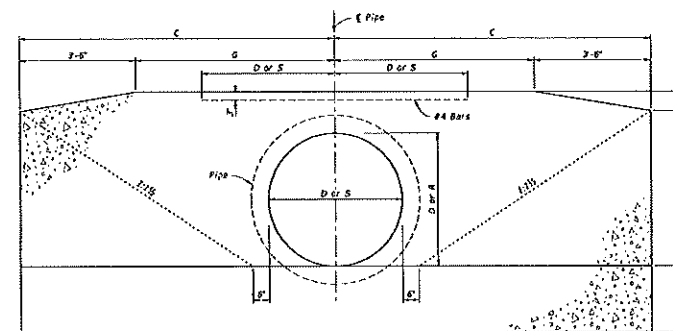
End Skew to Pipe	Use Tabulated Value
0° to 5°	0°
6° to 15°	15°
16° to 30°	30°
31° or Over	45°

CONCRETE AND METAL PIPE TABLES

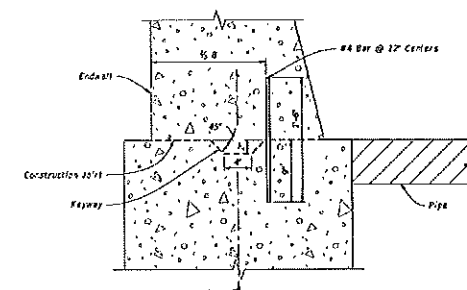
LAST REVISION 11/01/21	DESCRIPTION:	 FY 2025-26 STANDARD PLANS	STRAIGHT CONCRETE ENDWALLS SINGLE AND MULTIPLE PIPE	INDEX 430-030	SHEET 3 of 4
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PLAN

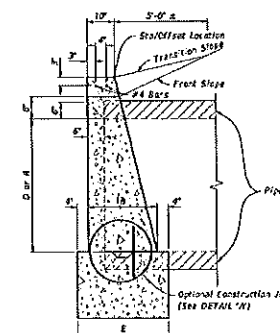


FRONT ELEVATION



DETAIL 'A'

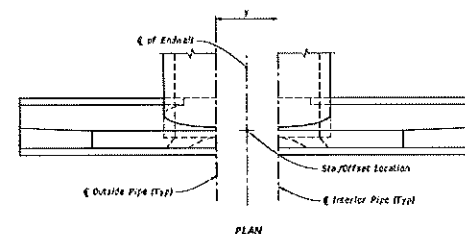
NOTE: Keyway and Dowels are required for optional construction joints.



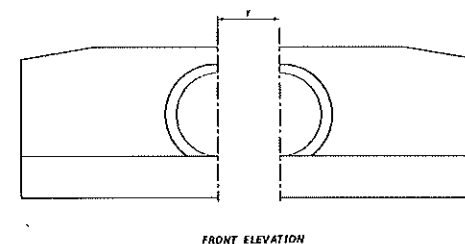
SIDE ELEVATION

CONCRETE ENDWALL DETAILS

LAST REVISION 11/01/19	DESCRIPTION:	 FY 2025-26 STANDARD PLANS	STRAIGHT CONCRETE ENDWALLS SINGLE AND MULTIPLE PIPE	INDEX 430-030	SHEET 2 of 4
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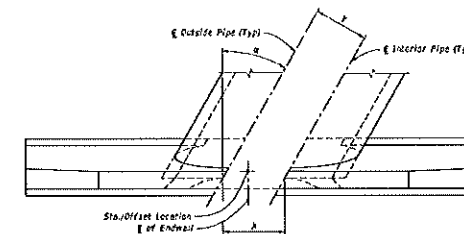


PLAN

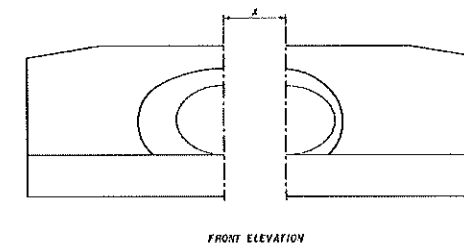


FRONT ELEVATION

== NORMAL PIPE ==



PLA



FRONT ELEVATION

SKEWED PIPE
(Multiple Pipe Shown, Single Pipe Similar)

LEGEND:

- a Pipe Skew Angle
- Y Center to Center between pipes
- X Center to Center along front of Headwall

SPACING FOR MULTIPLE PIPES

LAST REVISION 11/01/19	DESCRIPTION:	 FY 2025-26 STANDARD PLANS	STRAIGHT CONCRETE ENDWALLS SINGLE AND MULTIPLE PIPE	INDEX 430-030	SHEET 4 of 4
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Collier County
TRANSPORTATION
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FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER 30462

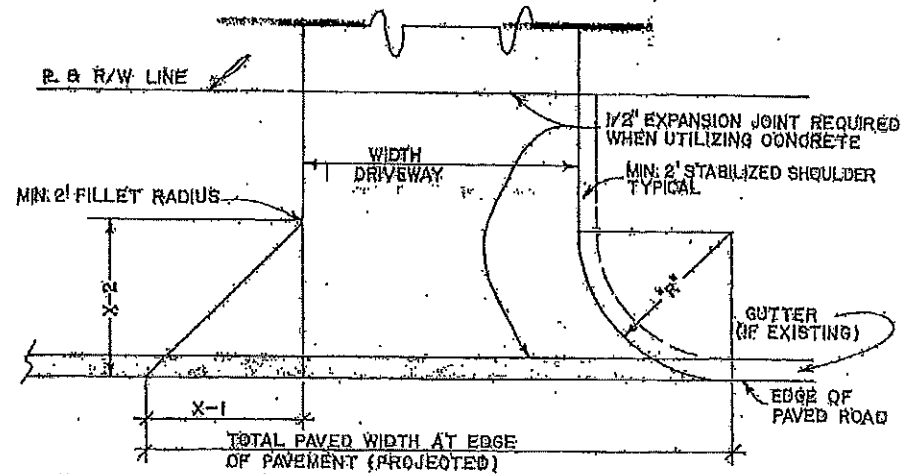
Poinciana Village Stormwater Improvements Details

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	DESIGN	DRAWN	CHKD	DRAWING No. PLAN S
DAVID W. SCHMITT, P.E. FL. LICENSE NO. 41671 06/23/2025	SCALE	NONE	SHEET	118
				DATE 11/2022



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SINGLE FAMILY & DUPLEX DRIVEWAY



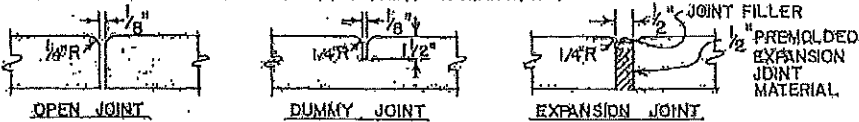
NOTES

1. TURNOUT (DIMENSIONS X-1 & X-2) SHALL BE REQUIRED WHEN USING CONCRETE UNLESS OTHERWISE APPROVED.
2. WHERE GUTTER IS USED THE DIMENSIONS SHOWN SHALL BE AS PROJECTED FROM EDGE OF PAVEMENT.
3. FLORIDA D.O.T. PRIMARY AND SECONDARY AND COUNTY ARTERIAL STREETS REQUIRE MINIMUM DIMENSIONS OF 12 FOOT DRIVE WIDTH WITH A MINIMUM RADIUS OF 15 FOOT. (REGARDLESS OF DRIVE WIDTH-A 15 FOOT RADIUS WILL BE REQUIRED)

MINIMUM DRIVEWAY DIMENSION COMBINATION					
DRIVEWAY WIDTH	RADIUS	FILLET	TURNOUT		TOTAL WIDTH
			X-1	X-2	
10'	10'	30'	10'	8'	30'
12'	12'	30'	12'	8'	30'
13'	13'	30'	13'	8.5'	30'
14'	14'	30'	14'	8.5'	30'
15'	15'	30'	15'	8.5'	30'
16'	16'	30'	16'	8.5'	30'
17'	17'	30'	17'	8.5'	30'
18'	18'	30'	18'	8.5'	30'
19'	19'	30'	19'	8.5'	30'
20'	20'	30'	20'	8.5'	30'
21'	21'	30'	21'	8.5'	30'
22'	22'	30'	22'	8.5'	30'
24'	24'	30'	24'	8.5'	30'

NOTES

THESE DIMENSIONS ARE NOT APPLICABLE TO DRIVEWAYS CONSTRUCTED AROUND CUL-DE-SACS AND SHARP RADII. CONTACT THE ENGINEERING DEPARTMENT FOR DETAILS CONCERNING VARIANCES.



plotdate 04/10/03

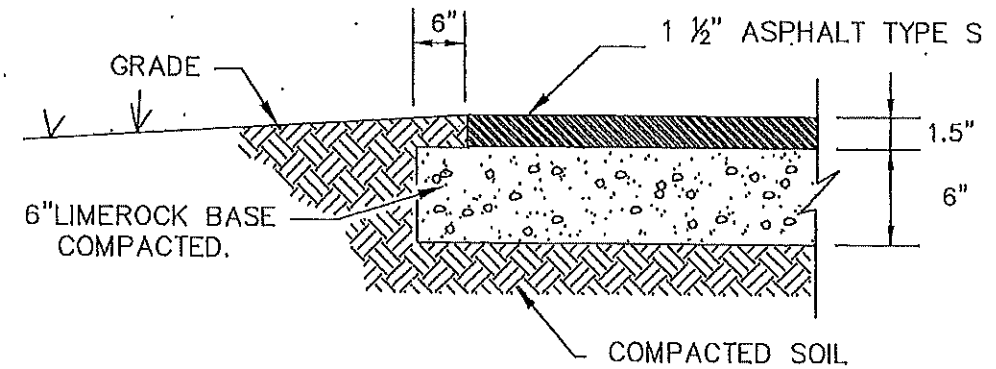
COLLIER COUNTY
TRANSPORTATION
OPERATIONS DEPARTMENT

REVISION
3-25-08
APPROVED

D.R.

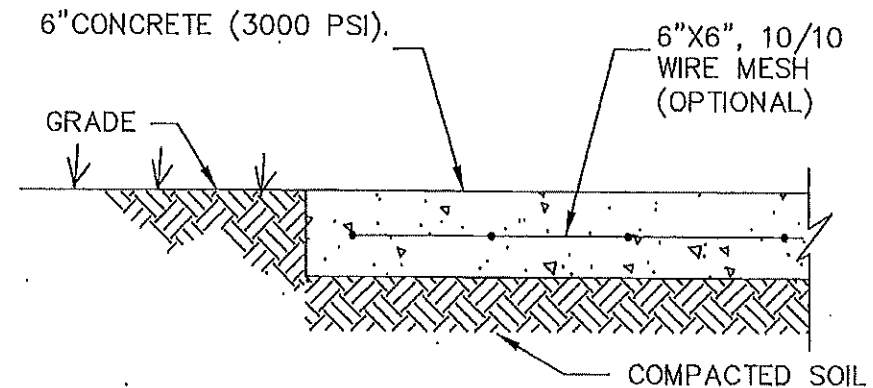
RESIDENTIAL DRIVEWAYS
AND VARIOUS JOINTS

SHEET
1 of 26



ASPHALT DRIVE DETAIL

N.T.S.



CONCRETE DRIVE DETAIL

N.T.S.

PLOT DATE 4/10/03

COLLIER COUNTY
TRANSPORTATION
OPERATIONS DEPARTMENT

REVISION
3-24-08
APPROVED

TITLE

RESIDENTIAL
ASPHALT / CONCRETE DRIVE
NOTES AND DETAILS

SHEET
22 OF 26

5.0 27 OF 31



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FL. LICENSE NO. 41671
11/12/2024

KLP
DESIGN

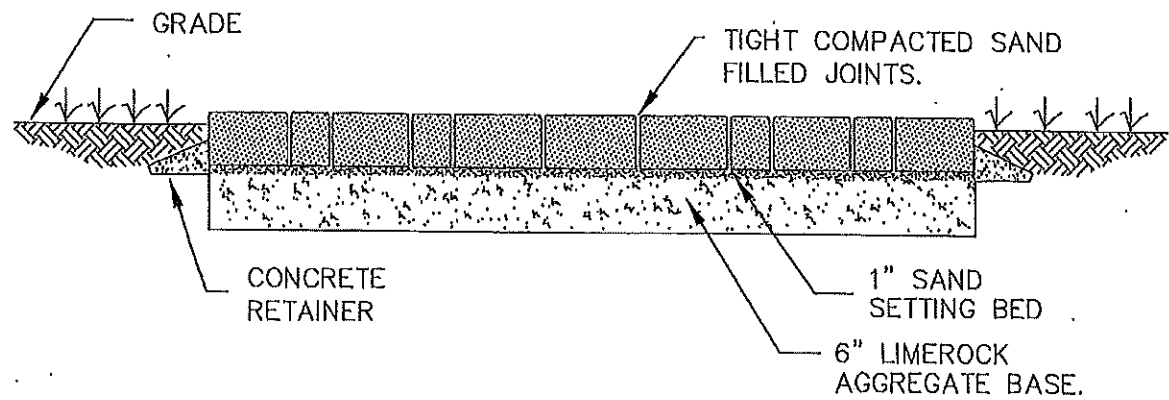
KLP
DRAWN

DWS
CHKD

SCALE 1" = 300'

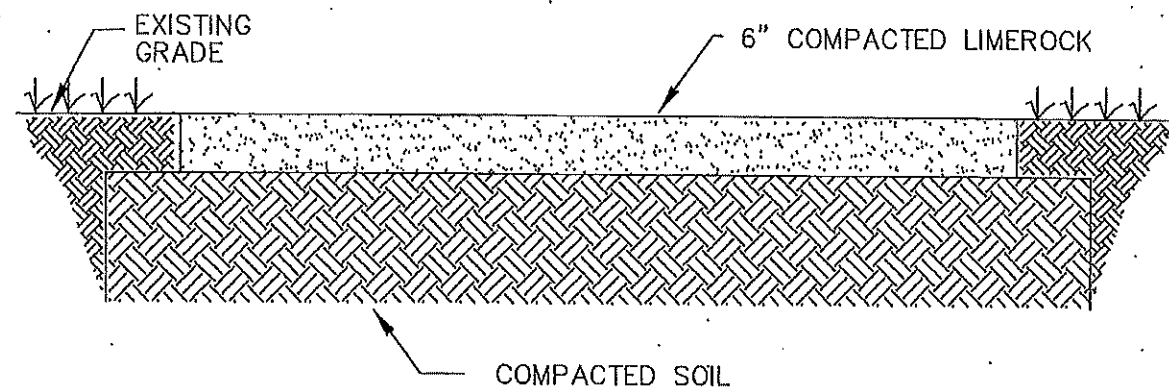
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PAVER DRIVE DETAIL

N.T.S.



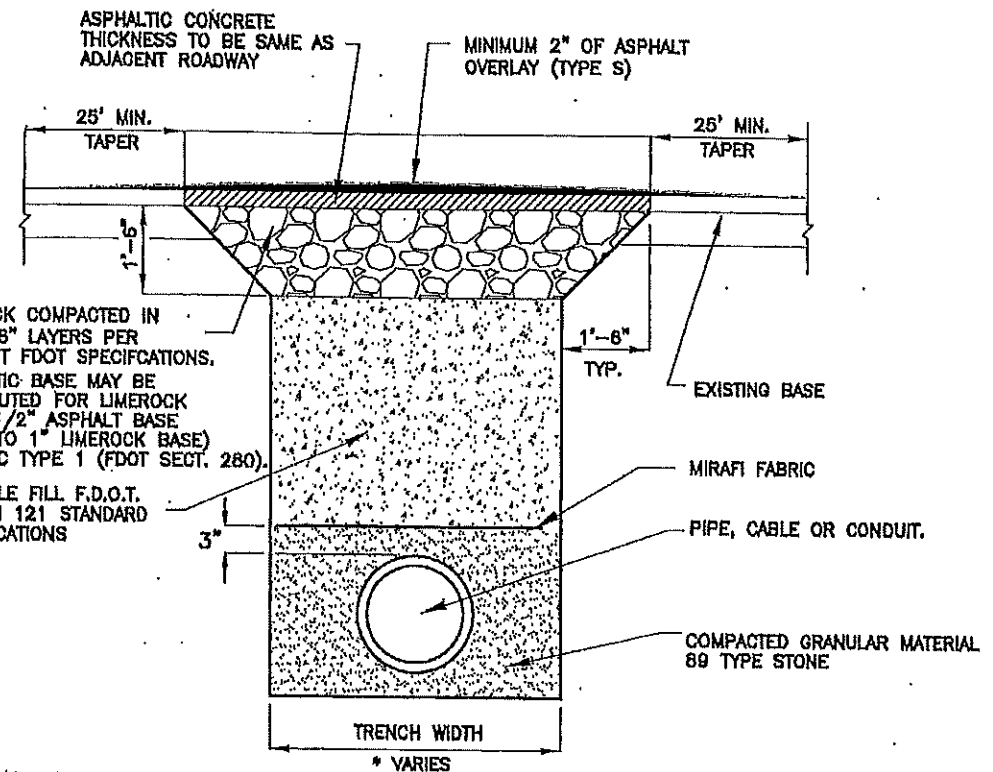
LIMEROCK DRIVE DETAIL *

N.T.S.

* LIMESTONE DRIVE PERMITTED ONLY
WHEN ADJOINING ROADWAY IS LIMESTONE.

PLOT DATE 4/10/03

COLLIER COUNTY TRANSPORTATION OPERATIONS DEPARTMENT	REVISION 3-24-08 APPROVED	TITLE RESIDENTIAL PAVERS / LIMEROCK DRIVE NOTES AND DETAILS	SHEET 23 of 26
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NOTES:

1. OVERLAY REQUIRED AT COLLIER COUNTY'S DISCRETION.
2. WRAP PIPE JOINTS WITH FILTER FABRIC.

* TRENCH WIDTH = PIPE OUTSIDE DIAMETER PLUS 2 FEET

OPEN CUT RESTORATION
WITH FLOWABLE FILL

PLOT DATE 08-24-07 EZ

COLLIER COUNTY TRANSPORTATION OPERATIONS DEPARTMENT	REVISION 03-24-08 EZ APPROVED	TYPICAL ROAD RESTORATION COLLECTOR / ARTERIAL	SHEET 21 of 28
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Details

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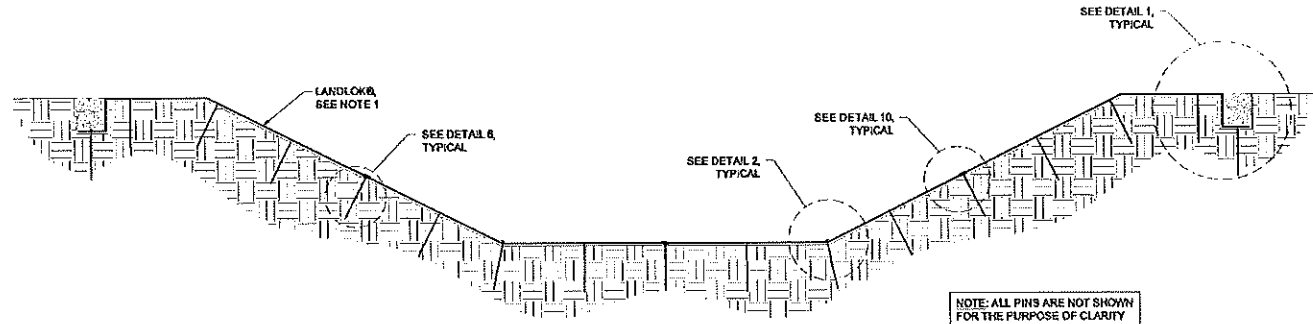
DAVID W. SCHMITT, P.E.
FL. LICENSE NO. 41671
11/12/2024

KLP	KLP	DWS
DESIGN	DRAWN	CHKD
SCALE	1" = 300'	

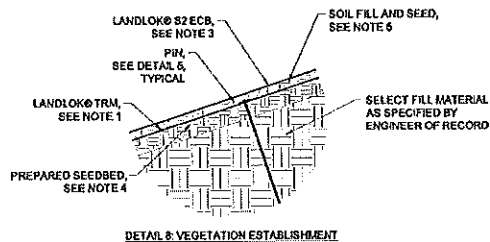
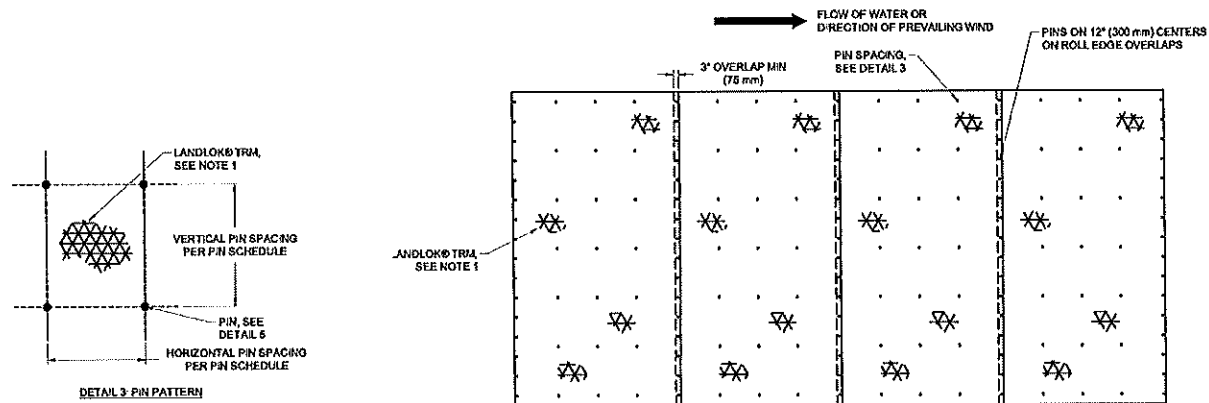
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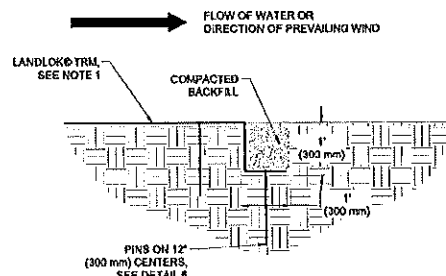
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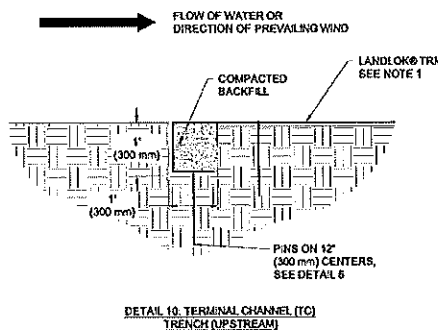
ELEVATION 1: PARALLEL INSTALLATION OF LANDLOK® TRM IN A CHANNEL



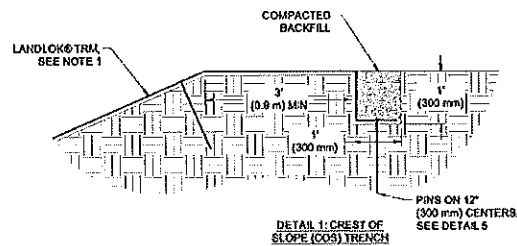
DETAIL 8: VEGETATION ESTABLISHMENT



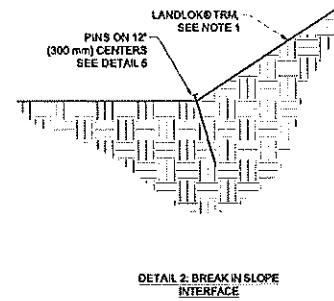
DETAIL 9: INITIAL CHANNEL (IC) TRENCH (DOWNSTREAM)



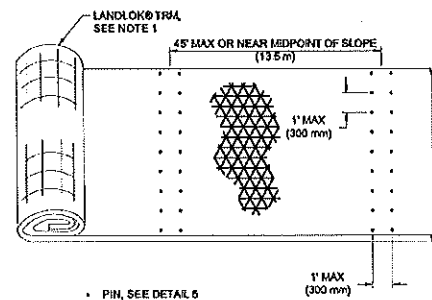
DETAIL 10: TERMINAL CHANNEL (TC) TRENCH (UPSTREAM)



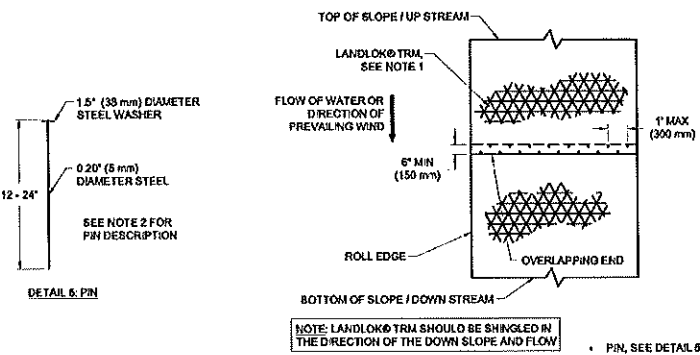
DETAIL 1: CREST OF SLOPE (COS) TRENCH



DETAIL 2: BREAK IN SLOPE INTERFACE



DETAIL 7: SIMULATED CHECK SLOT DETAIL



DETAIL 6: OVERLAP AT ROLL END DETAIL

PIN SCHEDULE	
SECURING DEVICE	PIN
HORIZONTAL PIN SPACING	2' (0.60 m)
VERTICAL PIN SPACING	2.5' (0.75 m)
EMBEDMENT DEPTH	PER MANUFACTURER'S DESIGN

- LANDLOK® TRM IN A CHANNEL FOR EROSION CONTROL GENERAL INSTALLATION GUIDELINES**
- GENERAL NOTES**
1. The LANDLOK® TRM is a three-dimensional, left, stitch-bonded polypropylene geotextile which is specially designed for erosion control applications on steep slopes and vegetated waterways. The matrix is composed of a dense web of crimped, interlocking fibers featuring X38 technology positioned between two biaxially oriented reils and mechanically bound together by parallel stitching with polypropylene thread. The material exhibits very high interlock and reinforcement capacity with both soil and root systems, demonstrates superior UV resistance, and enhances seedling emergence.
 2. The 12", 18", and 24" Securing Pins are composed of a wire, mushroomed at the top. A washer is then placed on the wire and the wire is crimped or wedged about 3-1/2" below the top so the washer will not slide off. The end of the wire is cut at a 45 degree angle for easy penetration of the soil. These Pins with washers conform to industry standards for erosion control pins with washers.
 3. LANDLOK® S2 Erosion Control Blankets consist of 100% wheat straw mechanically bound and covered on both sides by netting. The straw is homogeneously blended and evenly distributed throughout the blanket. The netting is photodegradable polypropylene with mesh openings of approximately 3/8 in. by 3/8 in. (11 mm by 11 mm). The blanket is sewn on approximately 2 in. (51 mm) centers with photodegradable polypropylene thread. This product is MTEP approved for AASHTO standards.
- VEGETATION ESTABLISHMENT**
4. Prepare seedbed by loosening 60 to 75 mm (2 to 3 in) of soil above final grade. Apply seed in an amount equivalent to 60% of the total mixture required to be installed on the soil surface, to scarified surface prior to installation of the LANDLOK® TRM. Select and apply soil amendments and fertilizer, to scarified surface prior to installation of the LANDLOK® TRM. A site specific soil test should be performed to help determine what soil amendments, such as lime and fertilizer, need to be incorporated into the soil to promote healthy vegetation.
 5. The installed LANDLOK® TRM shall be soil filled and seeded with the remaining 40% of the seed mixture. Do not place excessive soil above material. Once soil fill and additional seed is in place, surficial protection should be accomplished by installing LANDLOK® S2 Erosion Control Blanket (ECB) atop the seed layer. LANDLOK® S2 ECB is to be secured using 6" U-shaped staples with a frequency of 2.0 staples per square meter (1.7 staples per square yard).
 6. Irrigate as necessary to establish and maintain vegetation until 75% of vegetation has established and has reached a height of 2 inches. Frequent, light irrigation will need to be applied to seeded areas if natural rain events have not occurred within two weeks of seeding.
- BEFORE INSTALLATION BEGINS**
7. Coordinate with a Project Representative: A pre-construction meeting is suggested with the construction team and a representative from Propex. This meeting should be scheduled by the contractor with at least a two week notice.
 8. Gather the Tools Needed: Tools that you will need to install the LANDLOK® TRM include a pair of industrial shears to cut the LANDLOK® TRM and tape measure.
 9. Determine how to Establish Vegetation: The method of vegetation establishment should be determined prior to the start of installation. Different vegetation establishment methods require different orders of installation. Refer to Establish Vegetation for further guidance.
 10. Please consult the Propex Website for the most up to date installation guidelines.



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EROSION CONTROL INSTALLATION DETAILS

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LANDLOK® TURF REINFORCEMENT MAT (TRM) LANDLOK® TRM INSTALLATION DETAILS FOR CHANNELS	
Rev	1 of 1
Date:	02/10/2017
Drawn By:	J. HILL
Scale:	NTS
*ALL DIMENSIONS ARE TO BE VERIFIED BY ENGINEER OF RECORD	



Collier County
TRANSPORTATION
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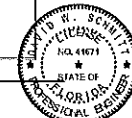
Poinciana Village
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Details

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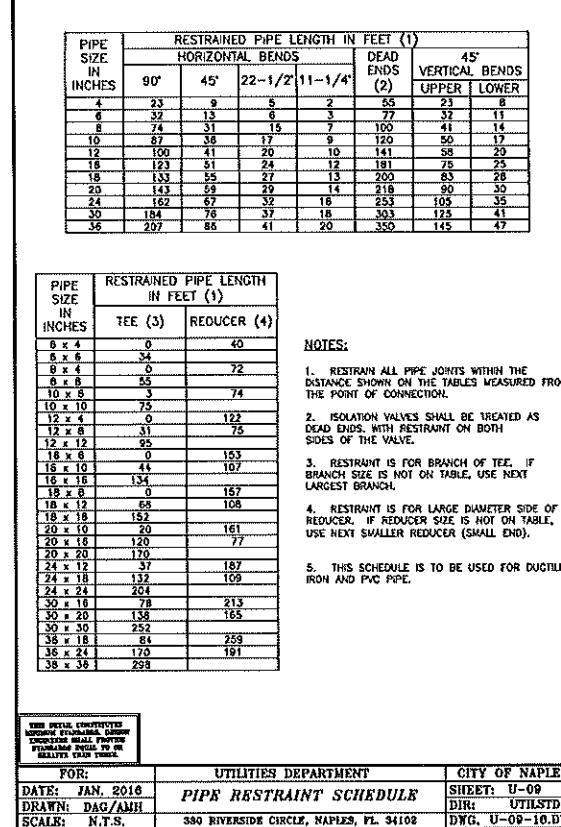
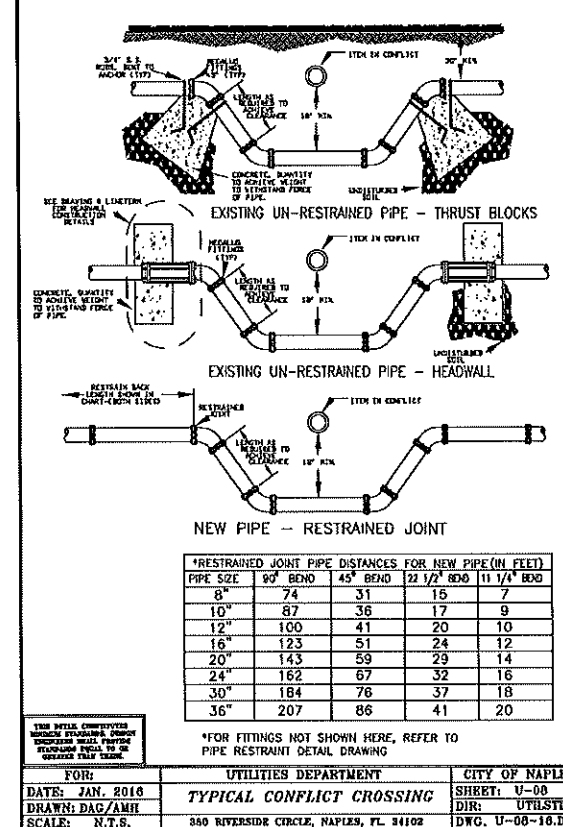
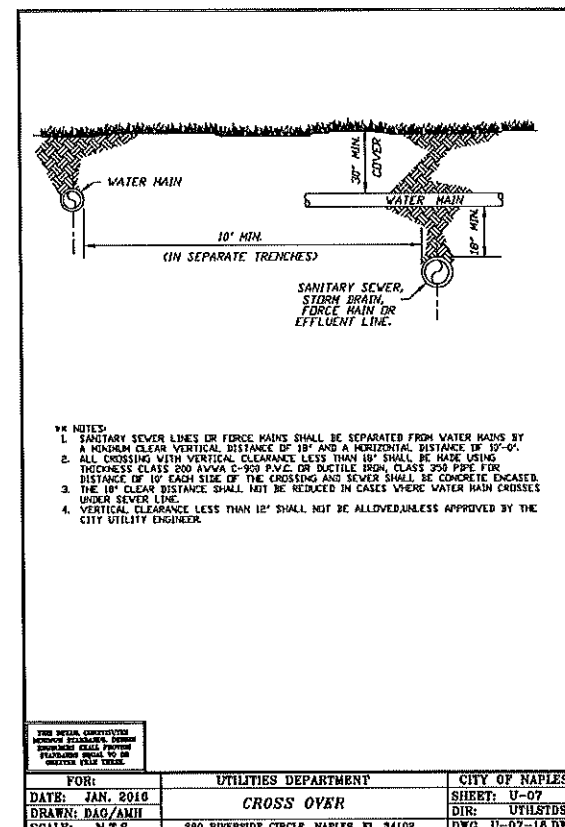
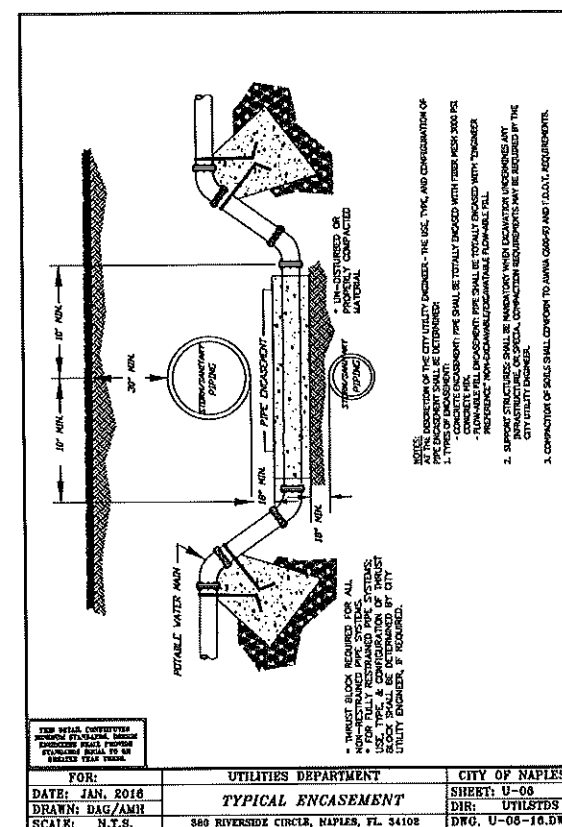
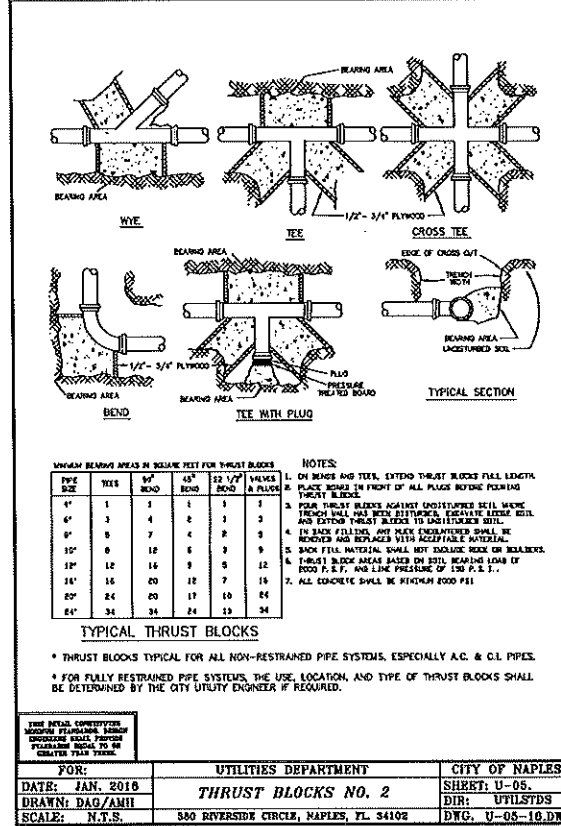
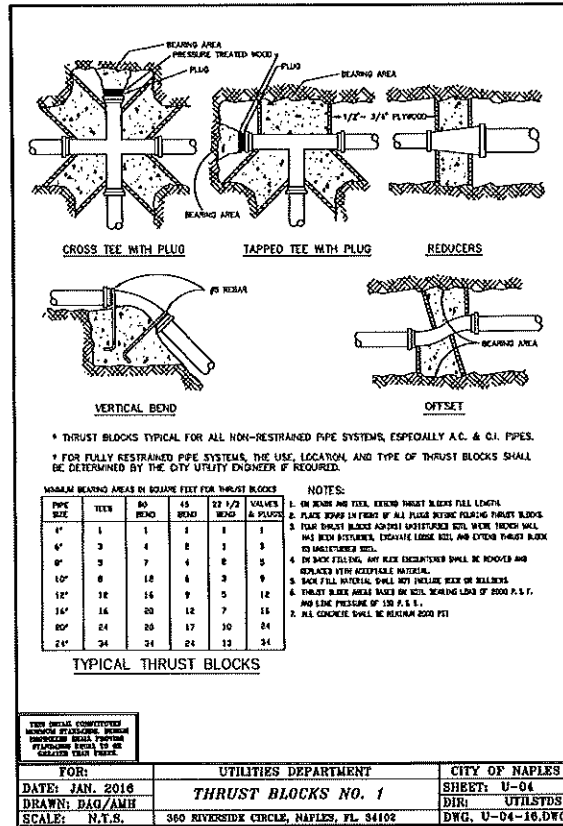
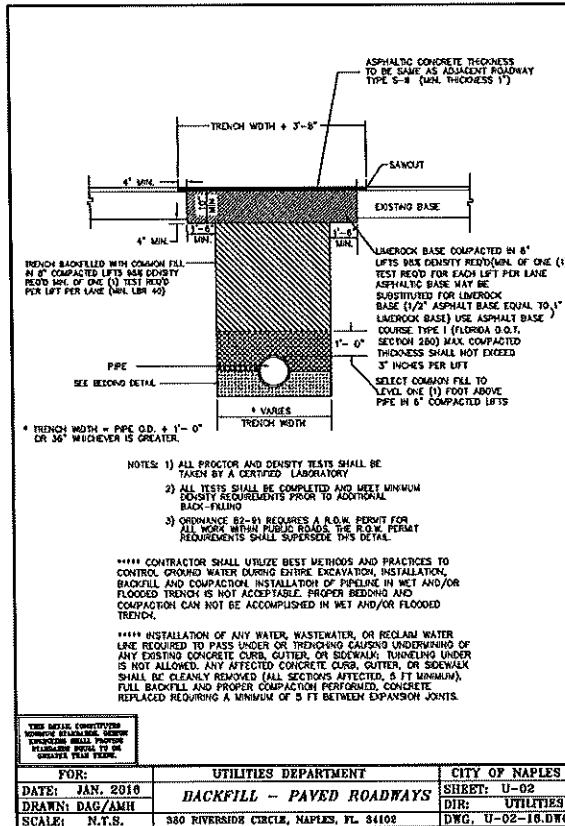
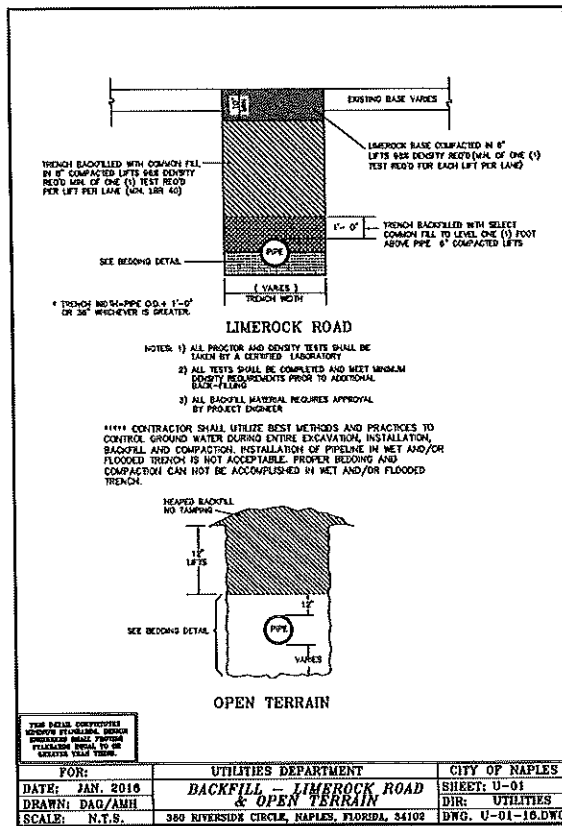
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FL. LICENSE NO. 41671
11/12/2024

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DESIGN	DRAWN	CHKD
SCALE	NONE	

JOB No.	2021-016
DRAWING No.	PLAN SH.
DATE	11/2022
SHEET	122



CAD file name: C:\Users\Veronica\Documents\Projects\Naples\2021-016-HSTB\Drawings\11/12/2024
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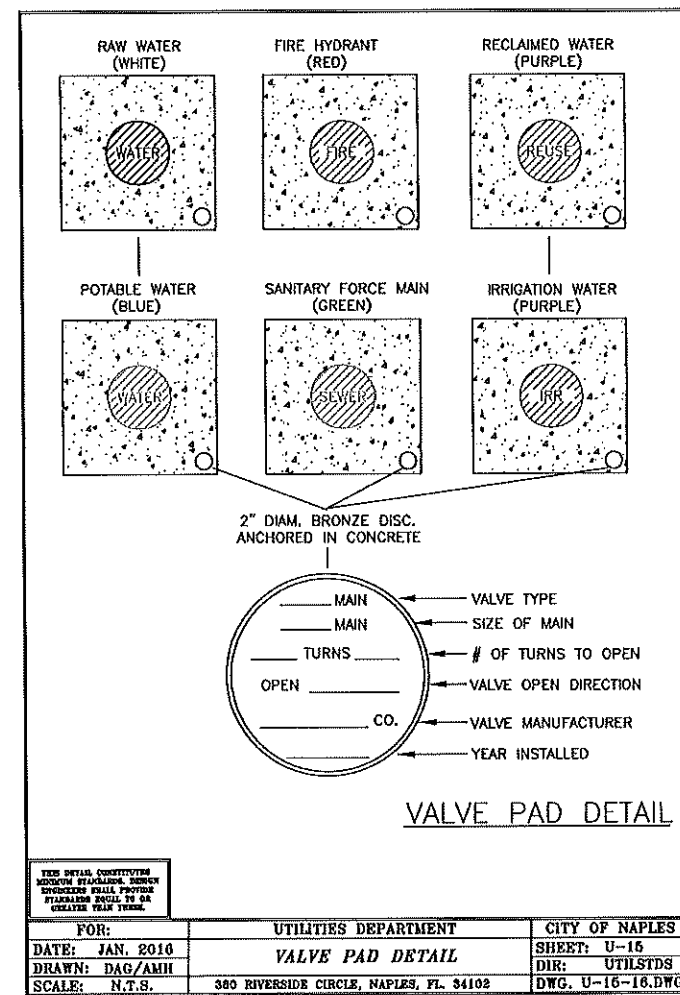
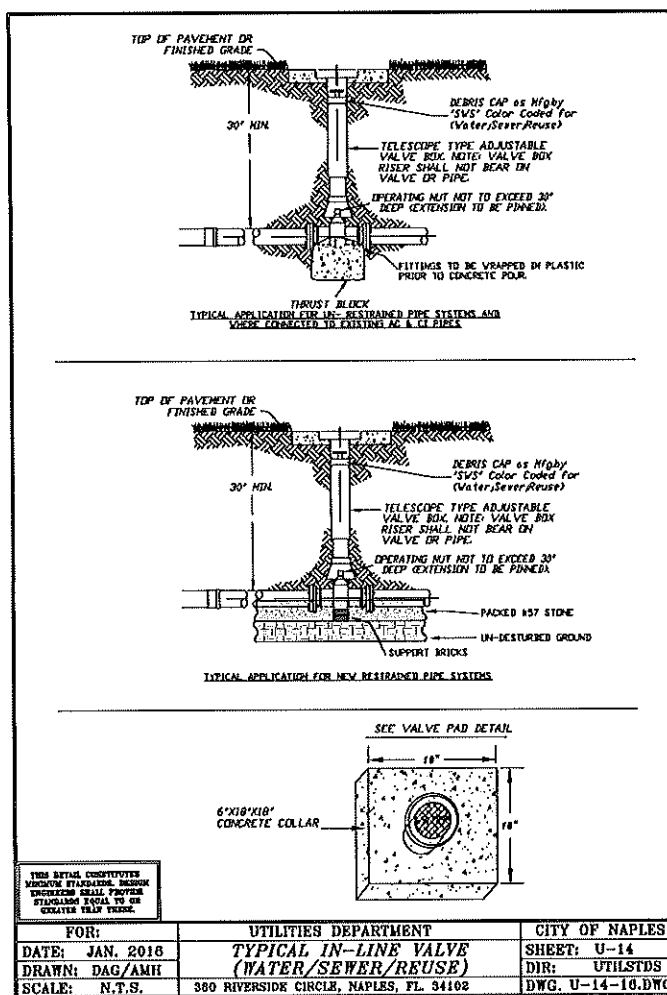


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1		
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Poinciana Village Stormwater Improvements Utility Details

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SCALE NONE				DATE 11/2022
				SHEET 123



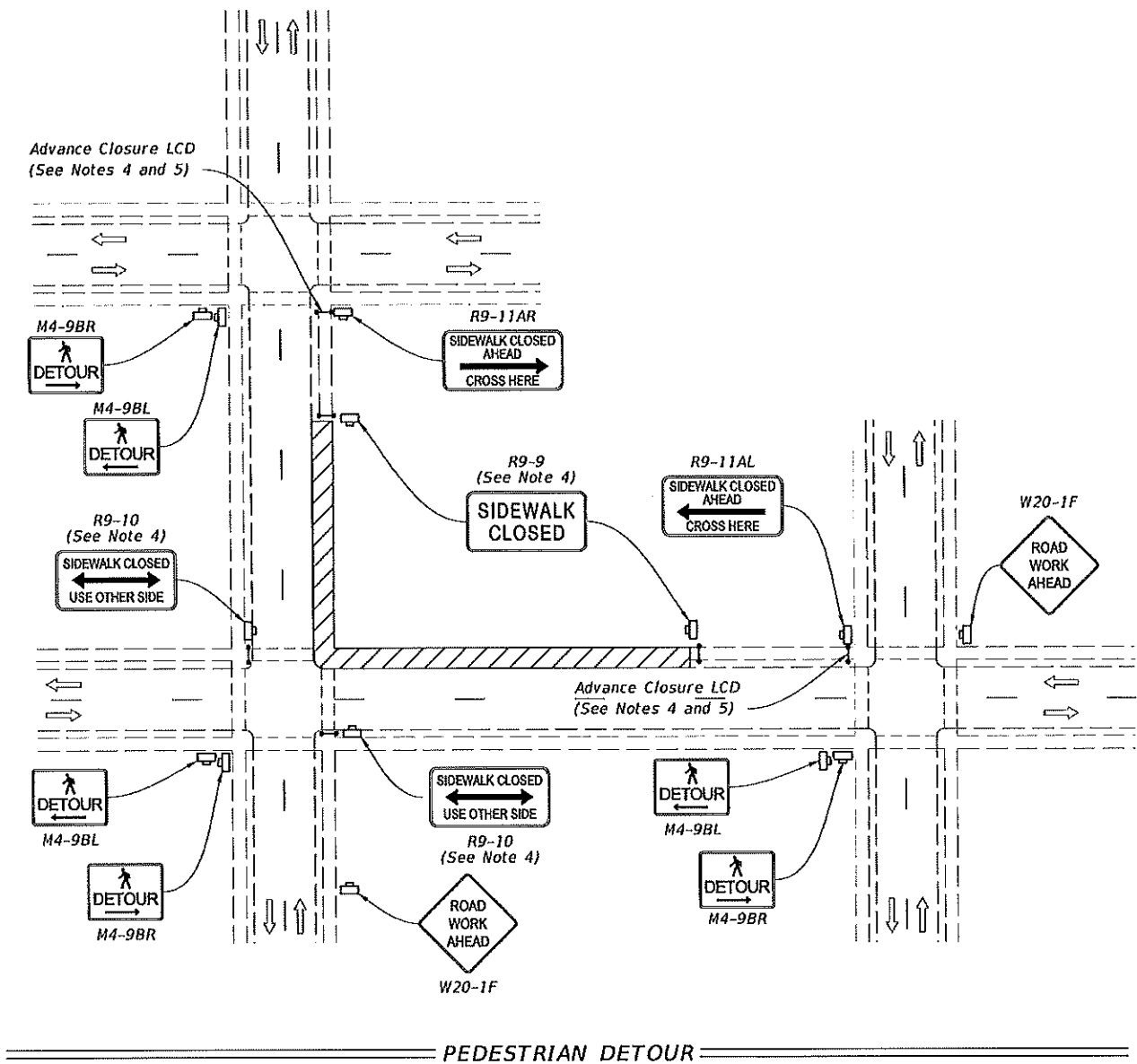
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NOTES:

1. Cover or deactivate pedestrian traffic signal display(s) controlling closed crosswalks.
2. Place pedestrian LCDs across the full width of the closed sidewalk.
3. For post mounted signs located near or adjacent to a sidewalk, maintain a minimum 7' clearance from the bottom of the sign panel to the surface of the sidewalk.
4. "Sidewalk Closed" signs (R9-XX) may be mounted on pedestrian LCDs in accordance with the manufacturer's instructions.
5. Omit the Advance Closure LCD if it blocks access to other pedestrian facilities (e.g., transit stops, residences, or business entrances).

SYMBOLS:

- Work Area
- Work Zone Sign
- Pedestrian Longitudinal Channelizing Device (LCD)
- Lane Identification and Direction of Traffic



ALL MAINTENANCE OF TRAFFIC SHALL BE
IN ACCORDANCE WITH GENERAL INFORMATION
FOR TRAFFIC CONTROL THROUGH WORK ZONES
FY 2025-26 STANDARD PLANS
INDEX 102-600E
SHEETS 1 THRU 11

LAST REVISION	DESCRIPTION:	FDOT	FY 2025-26 STANDARD PLANS	SIDEWALK CLOSURE	INDEX	SHEET
11/01/20					102-660	1 of 2



Collier County
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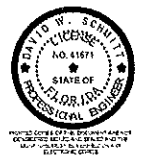
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SHEET	125



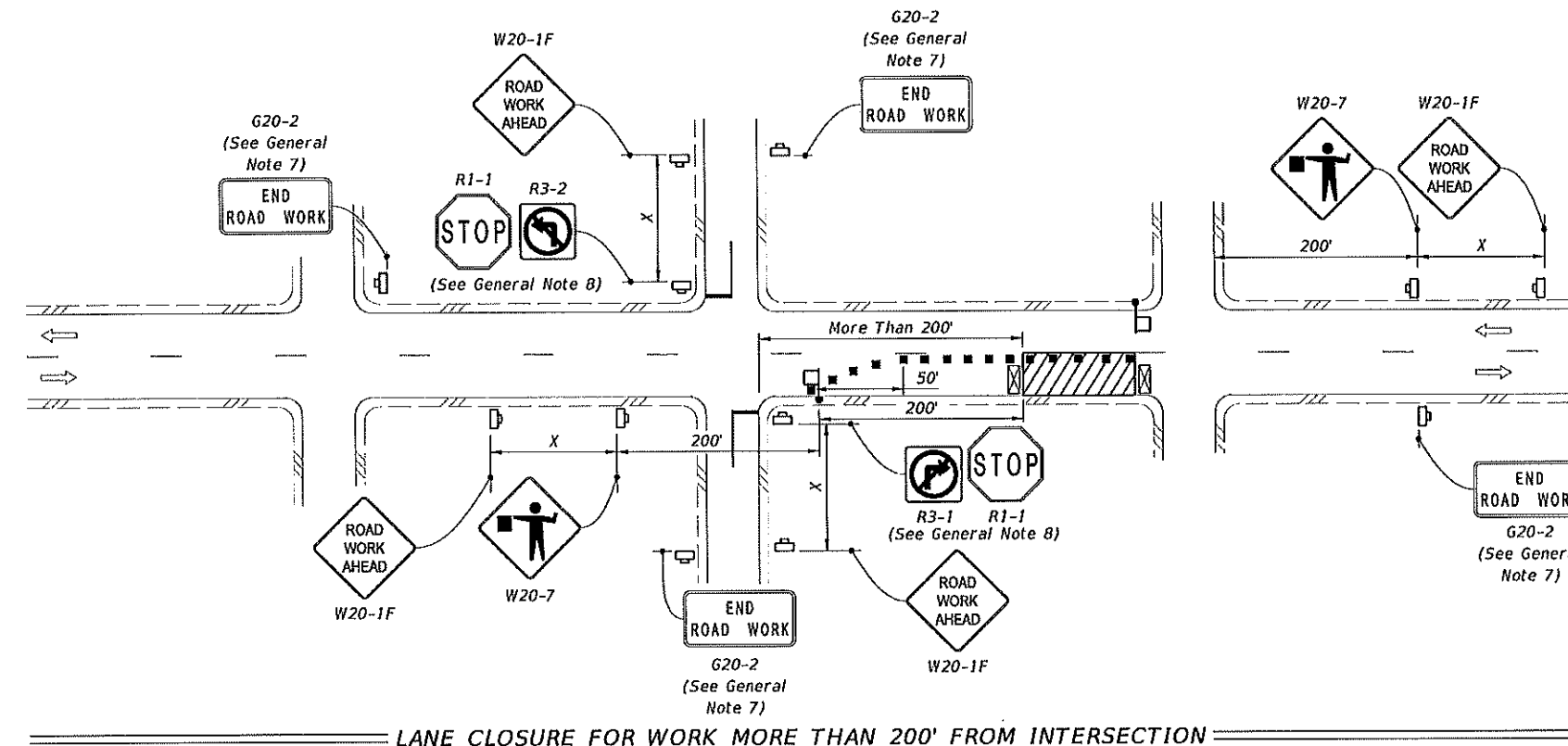
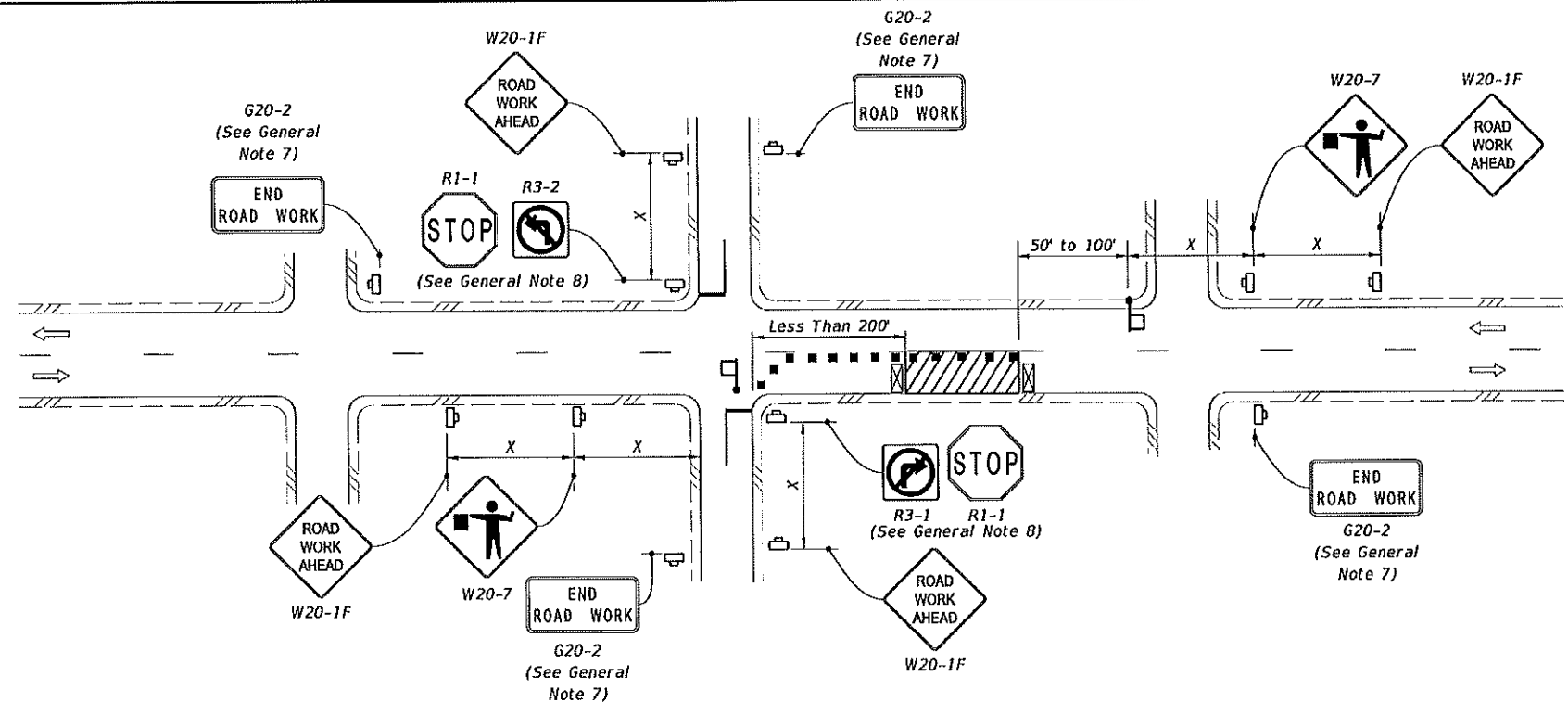
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GENERAL NOTES:

1. This Index applies to two-lane, two-way roadways with work within or near the intersection.
2. X = Work Zone Sign Spacing
See Index 102-600 for "X" and channelizing device spacing values.
3. Optionally, use "Flagger Ahead" sign with text (W20-7A) instead of "Flagger Ahead" sign with symbol (W20-7).
4. If vehicles in a parking zone block the line of sight to TCZ signs, locate and post mount signs in accordance with Index 700-101.
5. If the work area extends across a crosswalk, close the crosswalk in accordance with Index 102-660.
6. For unsignalized intersections, use Temporary Raised Rumble Strips in accordance with Index 102-603. Placement of Rumble Strips and additional signs should begin at FLAGGER sign location.
7. The "End Road Work" signs (G20-2) along with the associated work zone sign distances may be omitted when the work zone will be in place for 24 hours or less.
8. As an option to the "STOP" sign (R1-1) and Restricted Left/Right Turning Movement sign (R3-1 or R3-2), the "SIDE ROAD INTERSECTING THE WORK ZONE" flagging operation from Index 102-600 may be used.

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Type III Barricade
- Stop Bar
- Flagger
- Lane Identification and Direction of Traffic



LAST
REVISION
11/01/22

DESCRIPTION:



FY 2025-26
STANDARD PLANS

TWO-LANE, TWO-WAY, INTERSECTION WORK

INDEX
102-604

SHEET
1 of 2



Collier County
TRANSPORTATION
MANAGEMENT SERVICES

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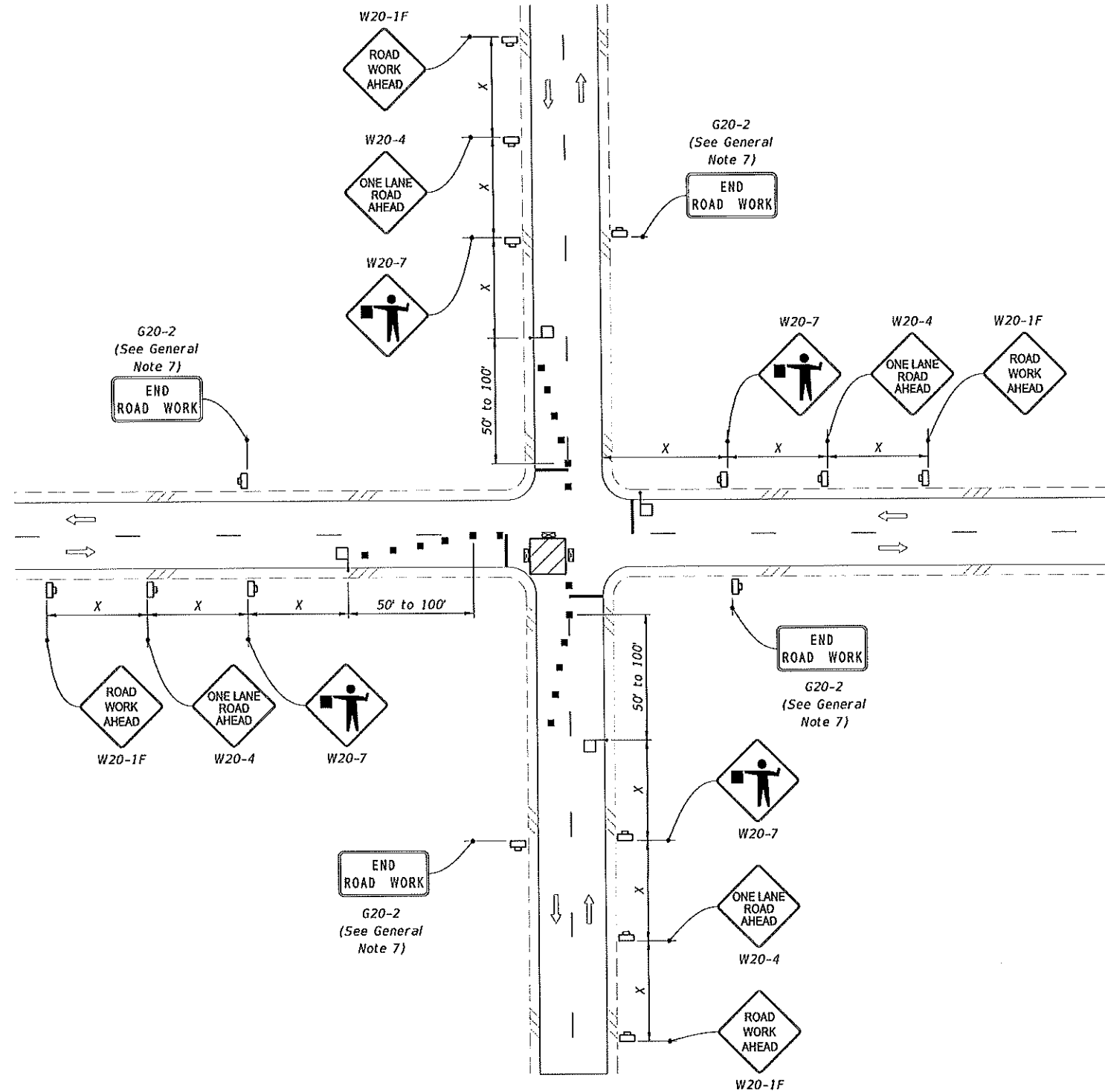
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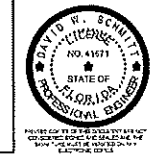
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- SYMBOLS:**
- Work Area
 - Channelling Device (See Index 102-600)
 - Work Zone Sign
 - Type III Barricade
 - Stop Bar
 - Flagger
 - Lane Identification and Direction of Traffic

WORK IN INTERSECTION OF TWO-LANE ROADWAY

LAST REVISION 11/01/22	DESCRIPTION:	FDOT FY 2025-26 STANDARD PLANS	TWO-LANE, TWO-WAY, INTERSECTION WORK	INDEX 102-604	SHEET 2 of 2
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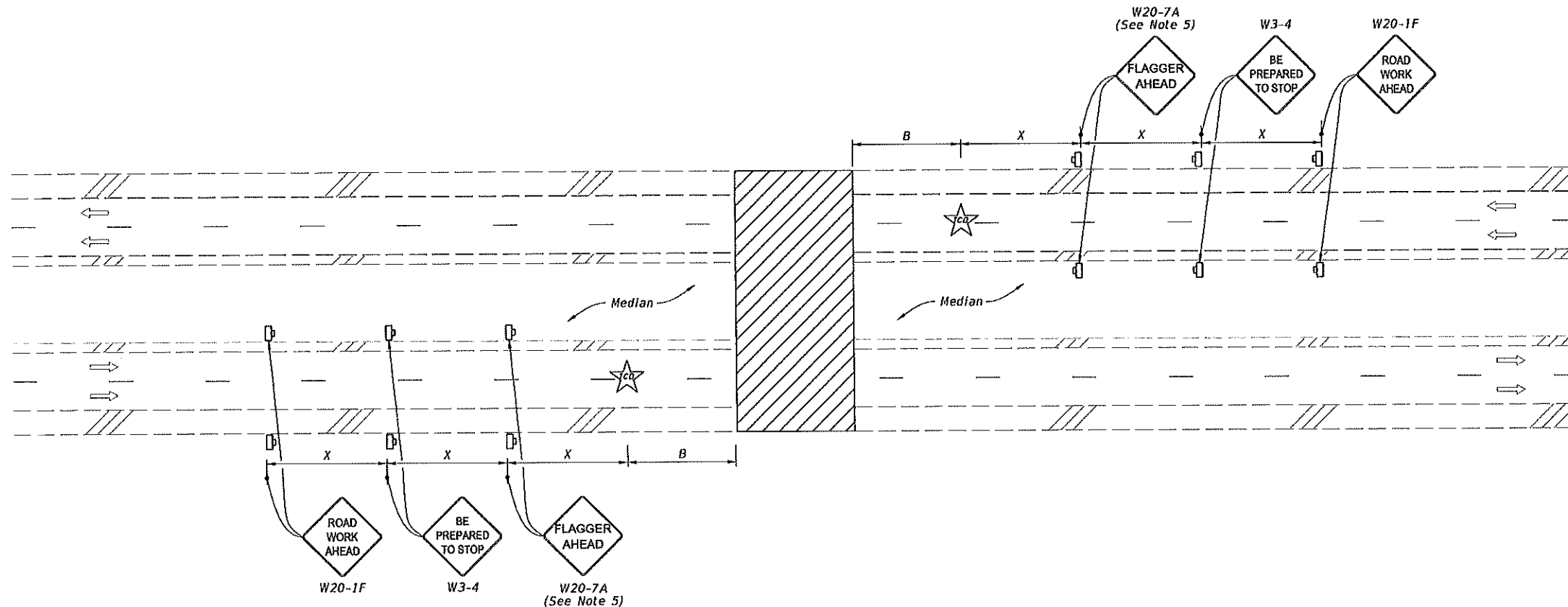
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				DATE 11/2022
				SHEET 128

DATE: 05/09/2025
DRAWN BY: DWS
CHECKED BY: KLP
DESIGNED BY: KLP
SCALE: NONE
SHEET: 129
JOB No. 2021-016
DRAWING No. PLAN SH.
DATE 11/2022

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(Multilane Roadway Shown, Two-Lane Roadway Similar)

SYMBOLS:

- Work Area
- Work Zone Sign
- Traffic Control Officer
- Lane Identification and Direction of Traffic

NOTES:

- This Index applies to two-lane, two-way and multilane roadways, except limited access facilities, with temporary daytime roadway closures of 5 minutes or less.
- B = Buffer Length
X = Work Zone Sign Distance
See Index 102-600 for "B" and "X" values.
- For Two-Lane Roadways, a Flagger may substitute the traffic control officer with approval of the Engineer.
- Traffic volume or complexity of the roadway may dictate additional signs, devices or traffic control officers.
- Optionally, use FLAGGER AHEAD sign with symbol (W20-7) instead of FLAGGER AHEAD sign with text (W20-7A).
- Dual Signs are required for divided roadways only.

LAST
REVISION
11/01/20

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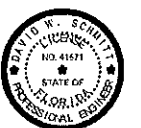


FY 2025-26
STANDARD PLANS

TEMPORARY ROADWAY CLOSURE

INDEX
102-625

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1 of 1



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DATE	11/2022
SHEET	129

Subsurface Utility Engineering Test Hole Datasheet

AIM Engineering & Surveying, Inc.
2161 Fowler Street, Suite 100
Fort Myers, Florida 33901
www.aimengr.com
Phone: (239) 332-4569
Toll Free: (800) 226-4569
LICENSED BUSINESS No. 3114

Financial Project Number: 21-1326
Project Road Name: Ponce De Leon Dr, Poinclana Dr, Bolero Way, Polnciana St, Santiago Way
Project Description: Poinclana Village Stormwater Improvements
Date of Field Work: July 13 to July 22, 2021

Utility Type BE: Buried Electric BT: Buried Telephone FM: Force Main GSSL: Gravity Sanitary Sewer Lateral IMM: Indeterminable Metallic Material WM: Water Main	Utility Material ACP: Asbestos Concrete Pipe DBC: Direct Buried Cable DIP: Ductile Iron Pipe HDPE: High-Density Polyethylene VCP: Vitrified Clay Pipe	Survey Markers: SIRC: Set 5/8" Iron Rod with Cap "TEST HOLE LB 3114" SMAGD: Set Mag Nail and Disk "AIM ENG LB 3114" CHISELED X: "X" Chiseled in concrete Horizontal Datum: Florida State Plane, East Zone, NAD 83 Units: US Survey Feet Vertical Datum: Vertical Datum, GPS derived NAVD88 (North American Vertical Datum of 1988)	Field Crew: D. Sheets, B. Lewis, J. Torres, A. Torres Prepared By: JW QA/QC By: DB 07-30-2021 Field Books Used: FB1726 PG(s) 27-39 Utility Owners Identified: Centurylink Florida Power & Light City of Naples
Additional Abbreviations NFV: Not Field Verified Vvh: Verified Vertical Horizontal		Equipment: Vacuum System-Vacmaster 4000 Locators-Radio Detection RD-8000, RD1000 GPR Carlson BRx6+	

Test Hole #	Utility Type	Utility Material	Utility Size	Owner	Northing	Easting	Ground Elevation	Top of Utility Elevation	Depth of Cover	Comments
Vvh 1	WM	ACP	6"	City of Naples	674197.37	401608.72	5.45'	0.95'	4.50'	Located with probe
Vvh 2	BE	DBC	3-0.5"/1-1"	Florida Power & Light	674140.68	401639.01	6.00'	2.40'	3.60'	
Vvh 3	FM	DIP	6"	City of Naples	674148.19	401637.21	5.36'	2.26'	3.10'	
Vvh 4	BE	DBC	3-0.5"	Florida Power & Light	674369.34	400626.68	6.18'	3.93'	2.25'	
Vvh 5	WM	ACP	6"	City of Naples	674369.46	400636.97	5.60'	1.10'	4.50'	
Vvh 6	BE	DBC	1"	Florida Power & Light	674369.82	400626.48	6.20'	1.35'	4.85'	
Vvh 7	WM	ACP	6"	City of Naples	675214.16	401379.59	5.27'	1.83'	3.44'	Located with probe
Vvh 8	WM	ACP	6"	City of Naples	675219.40	401650.31	4.76'	1.19'	3.57'	Located with probe
Vvh 9	WM	ACP	6"	City of Naples	675224.83	402272.30	5.54'	1.44'	4.10'	Located with probe
Vvh 10	BT	NFV	NFV	Centurylink	675283.55	403240.27	5.45'	3.87'	1.58'	Located with probe
Vvh 11	WM	ACP	6"	City of Naples	675286.87	403239.20	5.95'	3.43'	2.52'	
Vvh 12	BE	HDPE	2"	Florida Power & Light	675287.64	403239.32	5.93'	4.03'	1.90'	
Vvh 13	BE	DBC	3-0.5"/1-1"	Florida Power & Light	675297.26	403240.99	6.43'	4.65'	1.78'	
Vvh 14	BT	HDPE	2"	Centurylink	675292.09	403902.72	6.59'	5.07'	1.52'	
Vvh 15	WM	ACP	6"	City of Naples	675294.37	403900.83	6.78'	4.06'	2.72'	
Vvh 16	BT	DBC	3-0.25"/1-0.5"	Centurylink	675300.36	403904.43	6.97'	5.55'	1.42'	
Vvh 17	BE	DBC	1"	Florida Power & Light	675303.72	403900.50	7.07'	4.77'	2.30'	
Vvh 18	WM	ACP	6"	City of Naples	674406.89	401610.60	5.90'	2.90'	3.00'	Located with probe
Vvh 19	WM	ACP	6"	City of Naples	674223.94	404266.62	6.43'	3.96'	2.47'	Located with probe
Vvh 20	WM	ACP	6"	City of Naples	674220.22	403954.42	5.53'	3.43'	2.10'	Located with probe
Vvh 21	GSSL	VCP	6"	City of Naples	674217.14	403959.84	5.43'	4.14'	1.29'	Located with probe
Vvh 22	WM	ACP	6"	City of Naples	674215.83	403673.22	5.37'	2.77'	2.60'	Located with probe
Vvh 23	GSSL	VCP	6"	City of Naples	674215.66	403677.26	5.70'	3.75'	1.95'	
Vvh 24	WM	ACP	6"	City of Naples	674212.89	403149.69	5.06'	1.99'	3.07'	Located with probe



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Stormwater Improvements
Subsurface Utility Test Hole Datasheet

THESE DRAWINGS ARE NOT APPROVED UNLESS SIGNED AND SEALED BELOW:
DAVID W. SCHMITT, P.E.
FL. LICENSE NO. 41671
11/12/2024

KLP	KLP	DWS
DESIGN	DRAWN	CHKD
SCALE	NONE	

JOB No.	2021-016
DRAWING No.	PLAN SH.
DATE	11/2022
SHEET	130

CAD file name: C:\Users\Virginia\Documents\Projects\Vvh\Vvh 20210116-11-11.dwg 11/12/2024
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Test Hole #	Utility Type	Utility Material	Utility Size	Owner	Northing	Easting	Ground Elevation	Top of Utility Elevation	Depth of Cover	Comments
Vvh 25	WM	ACP	6"	City of Naples	674207.71	402893.14	4.82'	2.64'	2.18'	Located with probe
Vvh 26	WM	ACP	6"	City of Naples	675296.84	404154.96	6.96'	4.96'	2.00'	
Vvh 27	BT	HDPE	2"	Centurylink	675294.12	404155.12	6.73'	5.23'	1.50'	
Vvh 28	BE	NFV	NFV	Florida Power & Light	674159.64	401787.17	5.86'	2.86'	3.00'	Located with probe
Vvh 29	FM	DIP	6"	City of Naples	674148.58	401789.85	7.02'	3.92'	3.10'	
Vvh 30	FM	DIP	6"	City of Naples	674162.29	403149.26	6.40'	2.80'	3.60'	
Vvh 31	FM	DIP	6"	City of Naples	674170.62	403952.58	6.38'	3.03'	3.35'	Located with probe
Vvh 32	BE	HDPE	2"	Florida Power & Light	674170.80	403950.08	6.54'	5.17'	1.37'	
Vvh 33	WM	HDPE	2-1"	City of Naples	674169.56	403950.45	6.53'	5.23'	1.30'	Out of service
Vvh 34	WM	IMM/HDPE	1"	City of Naples	674172.38	403951.51	6.39'	5.14'	1.25'	Out of service. Located at 90 degree bend.
Vvh 35	WM	IMM/HDPE	1"	City of Naples	674172.29	403950.84	6.35'	5.10'	1.25'	Out of service, Located at tee.
Vvh 36	BE	DBC	1.5"	Florida Power & Light	674154.66	402031.99	5.81'	2.06'	3.75'	
Vvh 37	FM	DIP	6"	City of Naples	674149.98	402031.16	6.23'	1.93'	4.30'	Located with probe
Vvh 38	GSSL	VCP	6"	City of Naples	674170.76	403158.31	5.41'	3.41'	2.00'	
Vvh 39	WM	IMM/HDPE	2-1"	City of Naples	674162.14	403159.68	6.31'	4.31'	2.00'	Located with probe
Vvh 40	WM	HDPE	2"	City of Naples	674179.87	403943.81	5.63'	4.39'	1.24'	
Vvh 41	WM	HDPE	2"	City of Naples	674218.52	403949.61	5.67'	2.47'	3.20'	Located with probe
Vvh 42	FM	DIP	6"	City of Naples	674166.21	403648.42	6.09	2.89	3.20	Located with probe



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Poinciana Village
Stormwater Improvements
Subsurface Utility Test Hole Datasheet

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	DESIGN	DRAWN	CHKD	DRAWING No.	PLAN SH.
DAVID W. SCHMITT, P.E. FL. LICENSE NO. 41671 11/12/2024	SCALE	NONE		DATE	11/2022
				SHEET	131



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Poinciana Village
Stormwater Improvements
Soil Boring Location Plan

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SCALE	NONE	

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DRAWING No.	PLAN SH.
DATE	11/2022
SHEET	132

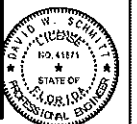


Image from Collier County Property Appraisers Website – 2021 Aerial.

● B-1 Number and Approximate Standard Penetration Test (SPT) Soil Boring Location

SOIL BORING LOCATION PLAN

POINCIANA VILLAGE STORMWATER IMPROVEMENTS

COLLIER COUNTY PROJECT NO.: 50200

LOCATED IN SECTION 23 – TOWNSHIP 49 – RANGE 25
POINCIANA VILLAGE OFF AIRPORT PULLING ROAD
NAPLES, COLLIER COUNTY, FLORIDA 34109

FORGE PROJECT NO. 109-104.01

www.ForgeEng.com
Phone (239) 514-4100
Fax (239) 514-4161

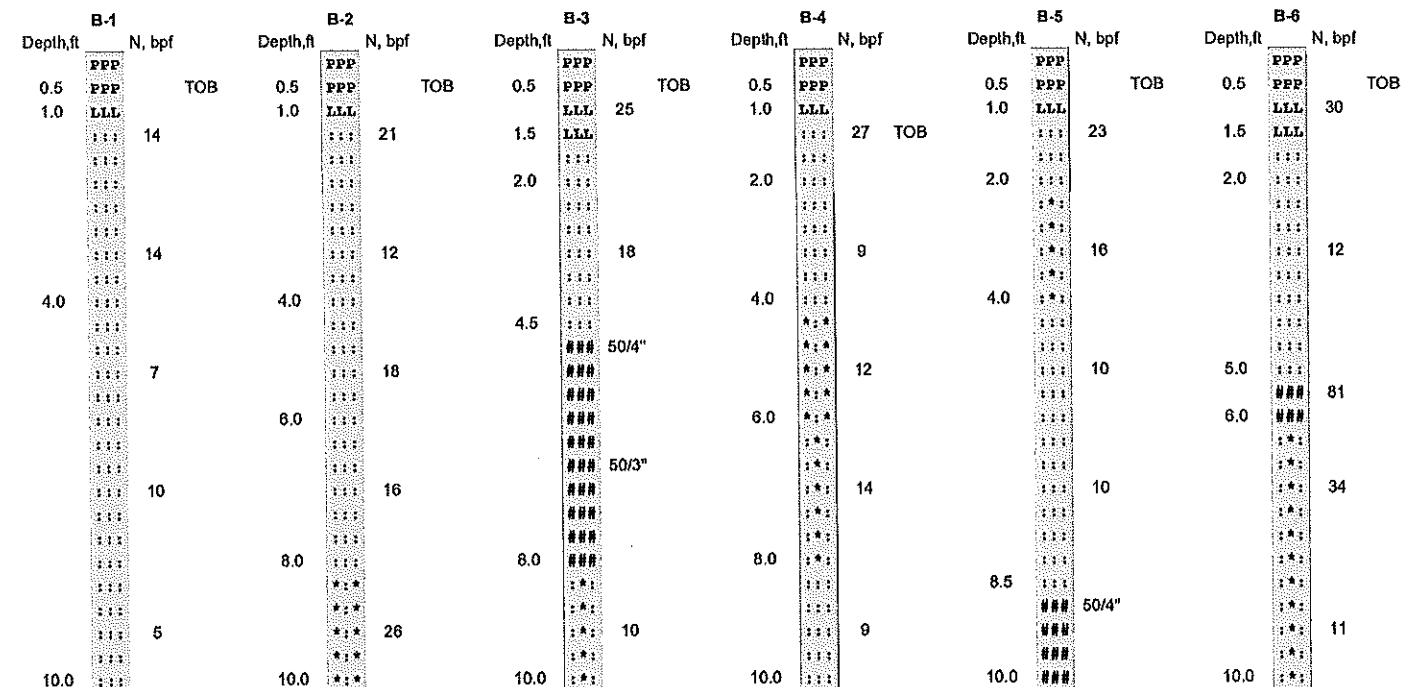


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P.O. Box 113040
Naples, Florida 34108
Cert. Auth.: 7544

Drawn By: RJM Date 06/15/21 Revised:

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LEGEND

PRP Asphalt PAVEMENT

LLL LIMEROCK Base

Loose to Medium Dense Fine SAND to Slightly Silty Fine SAND

Hard to Very Hard LIMESTONE (Caprock)

*: * Medium Dense Sandy GRAVEL with Silt (Weathered Limestone)

•• Loose to Dense Gravelly SAND with Silt (Weathered Limestone)

1. **LOWEST TO HIGHEST STATE, STATE YEAR, AND (A) STATEMENT**

LOSS Loss of drilling fluid

TOB Groundwater depth at Time Of Boring

Soil Boring Summary

POINCIANA VILLAGE STORMWATER IMPROVEMENTS

Poinclana Village off Airport Pulling Road
Naples, Collier County, Florida 34109

Forge Engineering Project No. 109-104.01

July 2021

Depth (feet)	Material Description					Remarks	Elev. (feet)	Groundwater	Unified	AASHTO	Symbol	N B/F	N (blows per foot)						Water Content, %	Laboratory Test Results						
	Strength	Primary >50%	Secondary >12%	Tertiary >5%	Color								0	10	20	30	40	50		Fines Content, %	Organic Content, %	Liquid Limit, %	Plasticity Index, %	Time Rate of Drilling (minutes:seconds)		
0.5		PAVEMENT			black	Asphalt 2-inches Thick		TOB			PPP															
1.0		LIMEROCK			light gray	8-inches Thick					LLL															
	Medium Dense										PPP	14	>>>>>>>>													
	Medium Dense										PPP	14	>>>>>>>>													
4.0		SAND			light brown				SP		PPP															
	Loose										PPP	7	>>>>													
	Loose										PPP	10	>>>>>>>>													
	Loose										PPP	5	>>>													
10.0		SAND		silt	gray	Trace Small Roots			SP-SM		PPP															
											PPP															

Boring Terminated at 10.0 ft.

Forge Engineering, Inc.
Naples, Florida

Sheet 1 of 1

Project Name: Poinclana Village Stormwater

Job Number: 109-104.01

Boring Number:

Date Drilled: 7/7/2021



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**Poinciana Village
Stormwater Improvements
Soil Boring**

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DATE	11/2022
SHEET	133



Depth (feet)	Material Description					Remarks	Elev. (feet)	Groundwater	Unified	AASHTO	Symbol	N B/F	N (blows per foot) 0 10 20 30 40 50	Laboratory Test Results						
	Strength	Primary >50%	Secondary >12%	Tertiary >5%	Color									Water Content, %	Fines Content, %	Organic Content, %	Liquid Limit, %	Plasticity Index, %	Time Rate of Drilling (minutes/seconds)	
0.5		PAVEMENT			black	Asphalt 2.5-Inches Thick		TOB			PPP									
1.0		LIMEROCK			light gray	8-Inches Thick					LLL									
	Medium Dense										21									
	Medium Dense										12									
4.0		SAND			light gray				SP											
	Medium Dense										15									
6.0		SAND		shell	light gray	With Shell Fragments				SP										
	Medium Dense										18									
8.0		SAND		gravel	light gray	Weathered Limestone				SP										
	Medium Dense										26									
10.0		GRAVEL	Sand		light gray	Weathered Limestone			GW											
																		</		

Forge Engineering, Inc.	Sheet 1 of 1	Project Name: Poinciana Village Stormwater	Boring Number: B-2
Naples, Florida		Job Number: 109-104.01	Date Drilled: 7/7/2021

[illegible]

Forge Engineering, Inc.	Sheet 1 of 1	Project Name: Polinclana Village Stormwater	Boring Number: B-3
Naples, Florida		Job Number: 109-104.01	Date Drilled: 7/7/2021

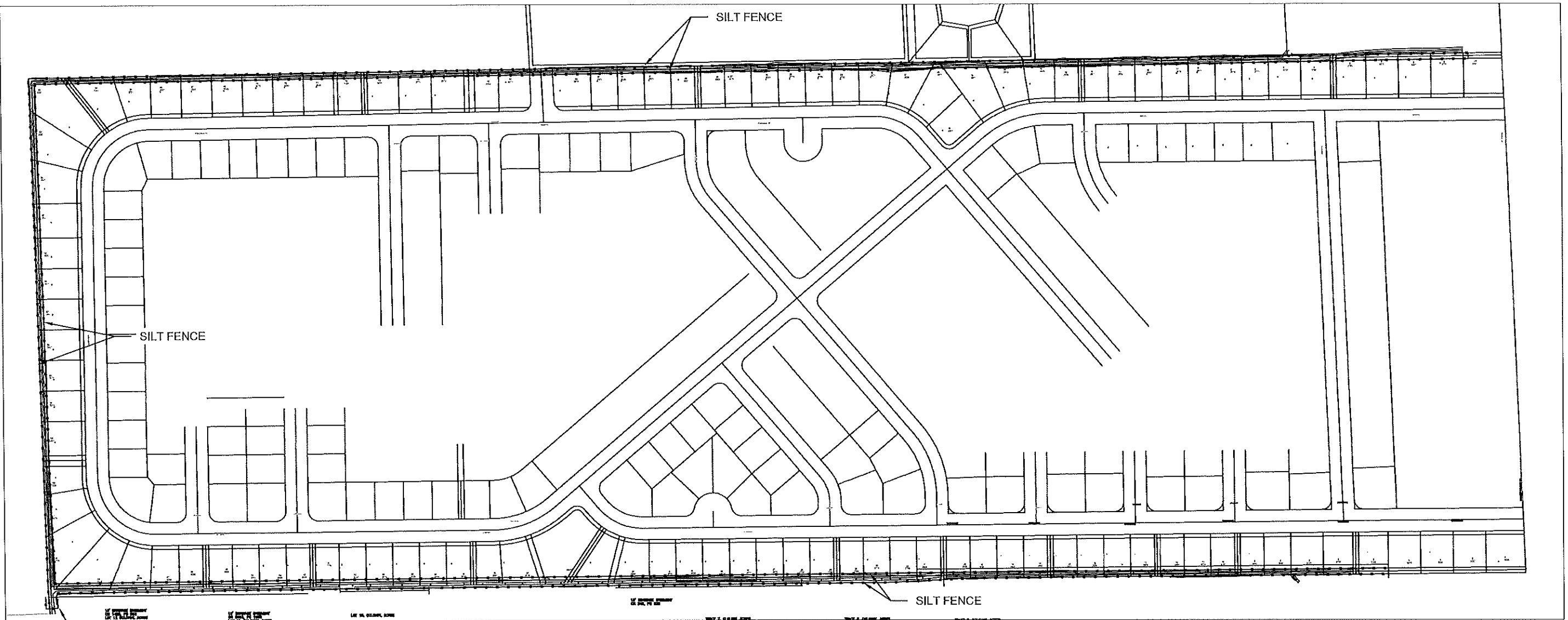


[illegible]

Boring Number: B-5
Date Drilled: 7/7/2021



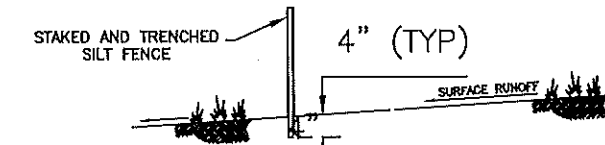
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EROSION CONTROL NOTES:

THE CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT, TOOLS, MATERIALS AND SERVICES NEEDED TO PROVIDE ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES. THESE MEASURES SHALL CONFORM TO THE PLANS AND SPECIFICATIONS AND ALL STATE AND LOCAL REQUIREMENTS.

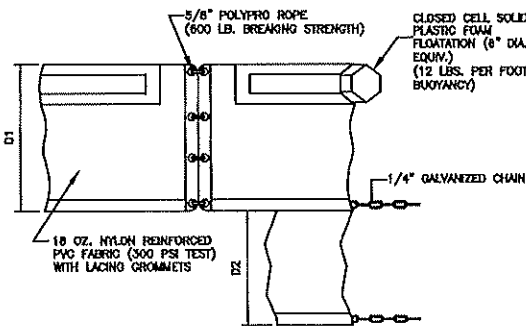
1. THE CONTRACTOR SHALL EXERCISE CARE TO PRESERVE THE NATURAL LANDSCAPE AND SHALL CONDUCT CONSTRUCTION OPERATIONS SO AS TO PREVENT ANY UNNECESSARY DESTRUCTION, SCARRING OR DEFACING OF THE NATURAL SURROUNDINGS IN THE VICINITY OF THE WORK AREA. EXCEPT WHERE CLEARING IS REQUIRED FOR PERMANENT WORK, FOR APPROVED CONSTRUCTION ROADS OR FOR EXCAVATION OPERATIONS, ALL TREES, NATIVE SHRUBBERY AND VEGETATION TO BE PRESERVED AND PROTECTED FROM DAMAGE WHICH MAY BE CAUSED BY THE CONTRACTOR'S CONSTRUCTION OPERATIONS AND EQUIPMENT.
2. GRADED AREAS ARE TO BE SEEDED AND/OR SODDED WITHIN SEVEN (7) DAYS FOLLOWING EARTH MOVING PROCEDURES. IF THE TIME OF YEAR IS NOT CONDUCTIVE FOR PERMANENT SEEDING, A TEMPORARY MULCH AND/OR SEEDING SHOULD BE USED.
3. REPAIR ALL DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION EQUIPMENT BEFORE THE END OF EACH WORK DAY.
4. SEDIMENT SHALL BE REMOVED FROM SUMP AREAS. THE SEDIMENT SHALL BE PLACED IN SUCH A MANNER THAT IT WILL NOT ERODE FROM THE SITE. THE SEDIMENT SHALL NOT BE DEPOSITED DOWNSTREAM FROM THE EMBANKMENT, IN OR ADJACENT TO A STREAM OR FLOOD PLAIN.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL AREAS DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION AND UPON OWNER SATISFACTION.
6. THE CONTRACTOR SHALL ABIDE BY ALL RULES AND CONDITIONS OF ERP AND LEE COUNTY PERMITS. ALL DISTURBED SLOPES SHALL BE SODDED WITHIN 48 HOURS OF COMPLETION OF FINAL GRADING. ALL EROSION CONTROL DEVICES (I.E. SYNTHETIC HAY BALES AND SILT FENCES) SHALL BE IN PLACE PRIOR TO ANY EXCAVATION OR CONSTRUCTION.
7. THE CONTRACTOR SHALL CONDUCT CLEANING AND DISPOSAL OPERATIONS TO COMPLY WITH ALL APPLICABLE PERMITS, LAWS AND REGULATIONS. CLEANING SHALL BE EXECUTED DAILY TO KEEP THE WORK, SITE AND ADJACENT PROPERTIES FREE FROM ACCUMULATIONS OF WASTE MATERIALS, WATER, ERODED MATERIAL, RUBBISH AND WIND BLOWN DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS.
8. WHERE ADJACENT PROPERTY HAVE BEEN DISTURBED, ALL AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
9. CONTRACTOR SHALL PROTECT EXISTING TREES, SHRUBS, AND OTHER PLANTINGS DURING CONSTRUCTION. WHERE EXISTING PLANTS HAVE BEEN DISTURBED OR NEED TO BE RELOCATED, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND COMPLETE THE WORK TO OWNERS SATISFACTION.
10. ANY DAMAGE TO EXISTING IRRIGATION PIPES, WIRING AND SPRINKLER HEADS SHALL BE REPLACED WITH NEW MATERIAL AT THE CONTRACTOR'S EXPENSE.
11. THIS DRAWING PROVIDE GENERAL EROSION CONTROL INFORMATION ONLY, CONTRACTOR IS RESPONSIBLE FOR OBTAINING NPDES-SPP PERMIT FROM FDEP AND FOR COMPLIANCE WITH ALL PERMIT CONDITIONS. WORK SHALL NOT COMMENCE UNTIL A COPY OF THE PERMIT DOCUMENTS HAVE BEEN RECEIVED BY ENGINEER.



NOTES:

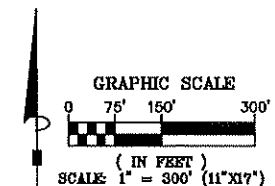
1. POSTS SHALL BE PLACED A MAXIMUM OF 10 FEET (3 m) APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12" (30 cm).
2. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES (10 cm) WIDE AND 4 INCHES (10 cm) DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
3. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH (25mm) LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES (5 cm) AND SHALL NOT EXTEND MORE THAN 36 INCHES (90 cm) ABOVE THE ORIGINAL GROUND SURFACE.
4. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES (20 cm) OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES (90 cm) ABOVE THE ORIGINAL GROUND SURFACE.

SINGLE ROW STAKED SILT FENCE
N.T.S.



D1-5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS)
D2-5' STD. (ADDITIONAL PANEL DEPTHS GREATER THAN 5')
CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET.
TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

FLOATING TURBIDITY BARRIERS
N.T.S.



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Poinciana Village
Stormwater Improvements
Erosion & Sedimentation Control Plan

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	DESIGN	DRAWN	CHKD	DRAWING No.	PLAN SH.
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				SHEET	137