

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS COMPONENTS
LANDSCAPE PLANS

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JAMES V. CHISHOLM
GARY SHIMUN
JIM NELSON

CITY MANAGER
DEPUTY CITY MANAGER/ACTING PUBLIC WORKS DIRECTOR
CITY ENGINEER

MAYOR DERRICK L. HENRY

CITY COMMISSION:

ZONE 1 - RUTH TRAGER
ZONE 2 - PAMELA WOODS
ZONE 3 - KELLY WHITE
ZONE 4 - ROBERT A. GILLILAND
ZONE 5 - PATRICK HENRY
ZONE 6 - PAULA R. REED

APPLICANT:

CITY OF DAYTONA BEACH
950 BELLEVUE AVE., ROOM 600
P.O. BOX 2451
DAYTONA BEACH, FLORIDA 32115
(386) 671-8632
PROJECT MANAGER: MICHELLE MARTIN

GOVERNING DESIGN STANDARDS:

Florida Department of Transportation, FY 2018-19 Design Standards eBook (DSeB) and applicable Design Standards Revisions (DSRs) at the folloiwng website: <http://www.fdot.gov/rddesign/DesignStandards/Standards.shtm>

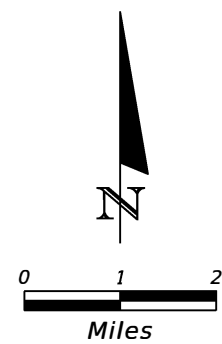
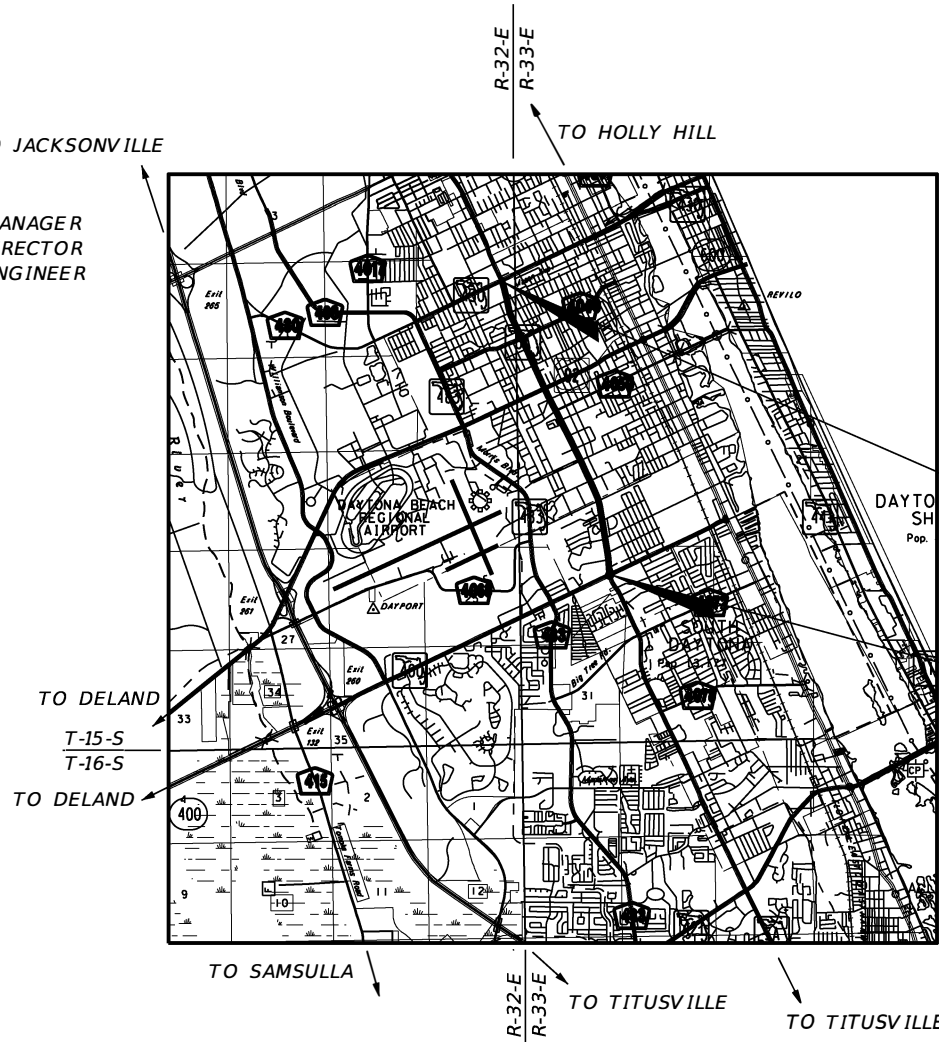
GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, July 2018 Standard Specificaltons for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/implemented/SpecBooks>

FINANCIAL PROJECT ID 437855-1-58-01

VOLUSIA COUNTY (79190000)
CITY OF DAYTONA BEACH

SR 5A (NOVA RD) MEDIAN LANDSCAPE PROJECT FROM BEVILLE RD TO MASON AVE



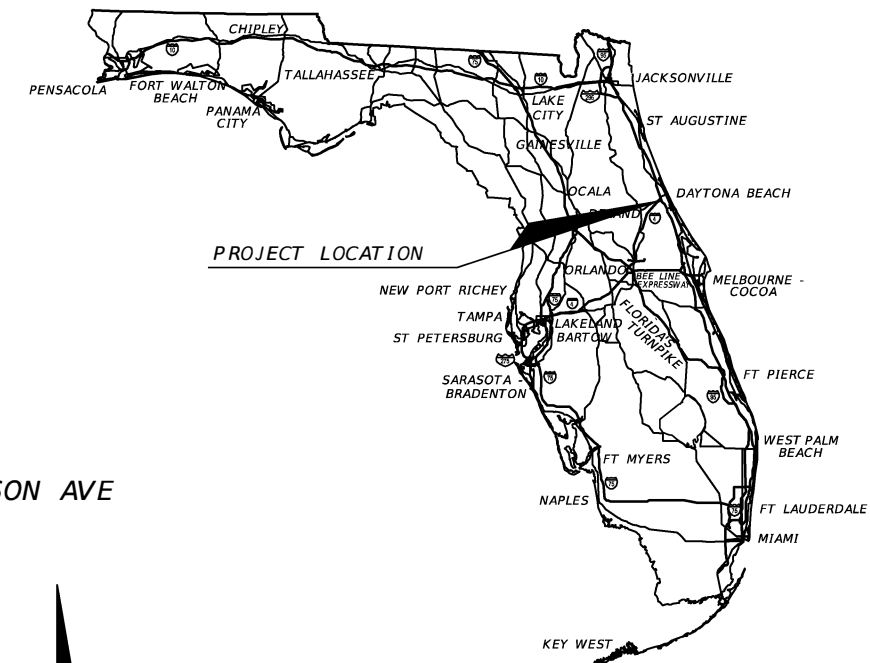
END PROJECT
STA. 273+67.00
M.P. 9.415

BEGIN PROJECT
STA. 100+00.00
M.P. 6.127

T-15-S
T-16-S

REVISIONS:

KEY SHEET REVISIONS	
DATE	DESCRIPTION



LANDSCAPE PLANS
LICENSED PROFESSIONAL OF RECORD:

GLENDON M. HERBERT, R.L.A.
GAI CONSULTANTS, INC.
618 E. South Street
Suite 700
Orlando, FL 32801
Contract No. C9D74
Vendor No. 251260999001
Certificate of Authorization No.: EB9951

PHASE IV SUBMITTAL

FDOT PROJECT MANAGER:

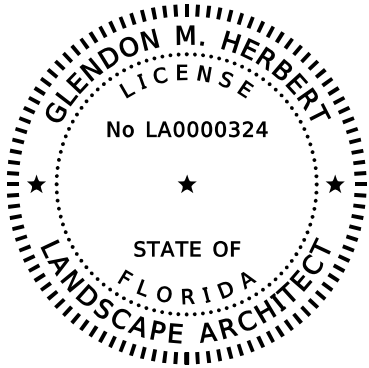
OMAR DALUSUNG

CITY PROJECT MANAGER:

MICHELLE MARTIN

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
AS 250	18	LD-1

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.



THIS DOCUMENT HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED.
THE SIGNATURE MUST BE VERIFIED ON
THE ELECTRONIC DOCUMENTS.
GAI CONSULTANTS, INC.
618 E. SOUTH STREET
SUITE 700
ORLANDO, FL 32801
CERTIFICATE OF AUTHORIZATION: EB9951
GLENDON M. HERBERT LA NO. 0000324

THE ABOVE NAMED PROFESSIONAL LANDSCAPE ARCHITECT SHALL BE RESPONSIBLE FOR THE
FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G10-11.011, F.A.C.

LANDSCAPE PLANS

SHEET NO.	SHEET DESCRIPTION
LD-1	KEY SHEET
LD-2	SIGNATURE SHEET
LD-3	SUMMARY OF QUANTITIES
LD-4	PROJECT NOTES
LD-4A	PAYITEM NOTES
LD-5	PROJECT LAYOUT
LD-6 - LD-29	LANDSCAPE PLAN
LD-30	IRRIGATION NOTES
LD-30A	IRRIGATION SCHEDULE
LD-31 - LD-54	IRRIGATION PLAN
LD-55	IRRIGATION DETAILS

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNATURE SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-2
					SR 5A	VOLUSIA	437855-1-58-01		

LANDSCAPE TABULATION OF QUANTITIES / PLANT SCHEDULE																					
PAY ITEM NO.	PAY SIZE	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAXIMUM MAINT'D SIZE	SPACING	REMARKS	UNIT	SHEET NUMBERS											
										LD-6		LD-7		LD-8		LD-9		LD-10		LD-11	
										PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
580-1-1	SMALL	JP	JUNIPERUS 'PARSONII'	PARSON'S JUNIPER	24" SPREAD	18" HT.	30" O.C.	3 GAL., FULL	EA					258		447					
580-1-1	SMALL	TV	TULBAGHIA VIOLACEA	SOCIETY GARLIC	15" SPREAD	18" HT.	24" O.C.	1 GAL., MIN. 6-8 PPP	EA	272		805				472		773		558	
580-1-1	SMALL	AG	Arachis glabrata	PERENNIAL PEANUT	12" SPREAD	18" HT.	18" o.c.	Flat	EA												
580-1-1	SMALL	CH	CHAMAEROPS HUMILIS	EUROPEAN FAN PALM	4' HT X 4' SPRD.	N/A	AS SHOWN	B&B, 2-3 STEMS	EA												
580-1-2	LARGE	LI	LAGERSTROEMIA INDICA 'MUSKOGEE'	LAVENDER CRAPE MYRTLE	14' O.A. STANDARD	N/A	AS SHOWN	100 GAL., CONTAINER GROWN, SINGLE STEM, 3" CAL., 8' C.T.	EA					1		2		2		6	
580-1-2	LARGE	LJ	LIGUSTRUM JAPONICUM	LIGUSTRUM TREE	11' HT X 11' SPRD.	N/A	AS SHOWN	FULL, SYMETRICAL, 5' C.T.	EA												
580-1-2	LARGE	AW	ACOELORRHAPHE WRIGHTII	PAUROTIS PALM	15'-20' O.A.	N/A	AS SHOWN	5-7 STEMS STAGGERED HIEGHTS, CLEANED UP	EA							4				4	
PAY ITEM NO.	PAY SIZE	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAXIMUM MAINT'D SIZE	SPACING	REMARKS	UNIT	SHEET NUMBERS											
										LD-12		LD-13		LD-14		LD-15		LD-16		LD-17	
										PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
580-1-1	SMALL	JP	JUNIPERUS 'PARSONII'	PARSON'S JUNIPER	24" SPREAD	18" HT.	30" O.C.	3 GAL., FULL	EA			580		723		387		267		936	
580-1-1	SMALL	TV	TULBAGHIA VIOLACEA	SOCIETY GARLIC	15" SPREAD	18" HT.	24" O.C.	1 GAL., MIN. 6-8 PPP	EA												
580-1-1	SMALL	AG	ARACHIS GLABRATA	PERENNIAL PEANUT	12" SPREAD	18" HT.	18" o.c.	Flat	EA												
580-1-1	SMALL	CH	CHAMAEROPS HUMILIS	EUROPEAN FAN PALM	4' HT X 4' SPRD.	N/A	AS SHOWN	B&B, 2-3 STEMS	EA												
580-1-2	LARGE	LI	LAGERSTROEMIA INDICA 'MUSKOGEE'	LAVENDER CRAPE MYRTLE	14' O.A. STANDARD	N/A	AS SHOWN	100 GAL., CONTAINER GROWN, SINGLE STEM, 3" CAL., 8' C.T.	EA			4		5							
580-1-2	LARGE	LJ	LIGUSTRUM JAPONICUM	LIGUSTRUM TREE	11' HT X 11' SPRD.	N/A	AS SHOWN	FULL, SYMETRICAL, 5' C.T.	EA												
580-1-2	LARGE	AW	ACOELORRHAPHE WRIGHTII	PAUROTIS PALM	15'-20' O.A.	N/A	AS SHOWN	5-7 STEMS STAGGERED HIEGHTS, CLEANED UP	EA	10								1		5	
PAY ITEM NO.	PAY SIZE	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAXIMUM MAINT'D SIZE	SPACING	REMARKS	UNIT	SHEET NUMBERS											
										LD-18		LD-19		LD-20		LD-21		LD-22		LD-23	
										PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
580-1-1	SMALL	JP	JUNIPERUS 'PARSONII'	PARSON'S JUNIPER	24" SPREAD	18" HT.	30" O.C.	3 GAL., FULL	EA	NO LANDSCAPE				NO LANDSCAPE		337		143		297	
580-1-1	SMALL	TV	TULBAGHIA VIOLACEA	SOCIETY GARLIC	15" SPREAD	18" HT.	24" O.C.	1 GAL., MIN. 6-8 PPP	EA			1086								1244	
580-1-1	SMALL	AG	ARACHIS GLABRATA	PERENNIAL PEANUT	12" SPREAD	18" HT.	18" o.c.	Flat	EA									1086		1668	
580-1-1	SMALL	CH	CHAMAEROPS HUMILIS	EUROPEAN FAN PALM	4' HT X 4' SPRD.	N/A	AS SHOWN	B&B, 2-3 STEMS	EA							3		3			
580-1-2	LARGE	LI	LAGERSTROEMIA INDICA 'MUSKOGEE'	LAVENDER CRAPE MYRTLE	14' O.A. STANDARD	N/A	AS SHOWN	100 GAL., CONTAINER GROWN, SINGLE STEM, 3" CAL., 8' C.T.	EA	THIS SHEET				THIS SHEET				1		2	
580-1-2	LARGE	LJ	LIGUSTRUM JAPONICUM	LIGUSTRUM TREE	11' HT X 11' SPRD.	N/A	AS SHOWN	FULL, SYMETRICAL, 5' C.T.	EA			7								6	
580-1-2	LARGE	AW	ACOELORRHAPHE WRIGHTII	PAUROTIS PALM	15'-20' O.A.	N/A	AS SHOWN	5-7 STEMS STAGGERED HIEGHTS, CLEANED UP	EA												
PAY ITEM NO.	PAY SIZE	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAXIMUM MAINT'D SIZE	SPACING	REMARKS	UNIT	SHEET NUMBERS											
										LD-24		LD-25		LD-26		LD-27		LD-28		LD-29	
										PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
580-1-1	SMALL	JP	JUNIPERUS 'PARSONII'	PARSON'S JUNIPER	24" SPREAD	18" HT.	30" O.C.	3 GAL., FULL	EA			620		580		NO LANDSCAPE				NO LANDSCAPE	
580-1-1	SMALL	TV	TULBAGHIA VIOLACEA	SOCIETY GARLIC	15" SPREAD	18" HT.	24" O.C.	1 GAL., MIN. 6-8 PPP	EA	1051		412						1013			
580-1-1	SMALL	AG	Arachis glabrata	PERENNIAL PEANUT	12" SPREAD	18" HT.	18" o.c.	Flat	EA	1603				1272							
580-1-1	SMALL	CH	CHAMAEROPS HUMILIS	EUROPEAN FAN PALM	4' HT X 4' SPRD.	N/A	AS SHOWN	B&B, 2-3 STEMS	EA												
580-1-2	LARGE	LI	LAGERSTROEMIA INDICA 'MUSKOGEE'	LAVENDER CRAPE MYRTLE	14' O.A. STANDARD	N/A	AS SHOWN	100 GAL., CONTAINER GROWN, SINGLE STEM, 3" CAL., 8' C.T.	EA			6				THIS SHEET		3		THIS SHEET	
580-1-2	LARGE	LJ	LIGUSTRUM JAPONICUM	LIGUSTRUM TREE	11' HT X 11' SPRD.	N/A	AS SHOWN	FULL, SYMETRICAL, 5' C.T.	EA	8				6							
580-1-2	LARGE	AW	ACOELORRHAPHE WRIGHTII	PAUROTIS PALM	15'-20' O.A.	N/A	AS SHOWN	5-7 STEMS STAGGERED HIEGHTS, CLEANED UP	EA												
REVISIONS						GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TABULATION OF QUANTITIES PLANT SCHEDULE						SHEET NO.			
DATE	DESCRIPTION			DATE	DESCRIPTION				ROAD NO.	COUNTY	FINANCIAL PROJECT ID							LD-3			
									SR 5A	VOLUSIA	437855-1-58-01										

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UTILITIES

1. UTILITY INFORMATION SHOWN IN THE DRAWINGS IS SCHEMATIC IN NATURE AND A GRAPHIC DEPICTION ONLY. EXISTING UTILITIES ARE TO REMAIN IN PLACE. IF LANDSCAPE IS IN CONFLICT WITH A UTILITY, NOTIFY THE LANDSCAPE ARCHITECT OR CITY PROJECT MANAGER FOR ADJUSTMENT TO THE LANDSCAPE PLACEMENT.

2. UTILITIES SHOWN ON THE PLANS ARE FOR REFERENCE ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL LOCATE ALL ABOVE GROUND AND SUBSURFACE UTILITIES WITHIN THE PROJECT LIMITS AND, IF NECESSARY, PHYSICALLY EXPOSE UTILITY FACILITIES THAT MAY BE AFFECTED PRIOR TO INSTALLATION OF ANY PLANT MATERIAL.

3. THERE WILL BE NO SEPARATE COMPENSATION FOR PERFORMING THIS UTILITY LOCATE WORK. ALL COSTS SHALL BE INCLUDED IN THE UNIT COST FOR PLANT MATERIAL.

4. LIST OF POSSIBLE UTILITY/AGENCY OWNERS:

COMPANY

TELEPHONE NUMBER

BRIGHTHOUSE NETWORKS, LLC

(386)775-4444 EXT 7613

CITY OF DAYTONA BEACH UTILITIES DEPT.

(386)671-8825

AT&T

(770)918-5424

FPL FIBERNET, LLC

(305)552-2931

EMBARQ COMMUNICATIONS INC.

(407)920-8981

TECO PEOPLES GAS

(386)671-2232

CENTURY LINK

(303)992-9931

AT&T/DISTRIBUTION

(386)254-8550

SUNESYS LLC

(267)927-2000

MCI

(972)729-6016

LEVEL 3 COMMUNICATIONS

(720)888-2061

FLORIDA POWER & LIGHT

(800)868-9554

SPRINT NEXTEL

(407)422-6670

5. THERE ARE TWO (2) TRAFFIC MONITORING STATION ON SR5A WITHIN THE PROJECT LIMITS, ONE AT M.P. 6.542 AND ONE AT M.P. 6.035 WHICH ARE NOT TO BE DISTURBED. IF YOU NEED FURTHER INFORMATION CONTACT THE TRANSPORTATION STATISTICS OFFICE, TRAFFIC DATA SECTION MANAGER STEVEN BENTS AT 352-943-6279.

PERMITS:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, INCLUDING ALL COSTS ASSOCIATED WITH OBTAINING, ANY AND ALL PERMITS REQUIRED FOR THE PROJECT.

TEMPORARY TRAFFIC CONTROL NOTES:

1. DURING CONSTRUCTION, THE REGULATED SPEED LIMITS ON SR5A (NOVA RD.) OF 45 MPH AND 50 MPH SHALL REMAIN IN EFFECT.

2. PRIOR TO BEGINNING WORK THE CONTRACTOR SHALL SUBMIT TO THE CITY TRAFFIC OPERATIONS MANAGER A TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL. LANE CLOSURES AND CONSTRUCTION ACTIVITIES MUST COMPLY WITH PROVISIONS AS OUTLINED IN FDOT LANE CLOSURE POLICY AND PROCEDURE. COORDINATE ALL LANE CLOSURES REQUESTS WITH THE CITY TRAFFIC OPERATIONS MANAGER, THE VOLUSIA COUNTY TRAFFIC ENGINEER AND THE FDOT PROJECT MANAGER. REQUESTS ARE TO BE SUBMITTED TWO (2) WEEKS IN ADVANCE OF ANY REQUIRED LANE CLOSURES.

3. ALL HAULING OPERATIONS THAT UTILIZE THE FDOT ROADWAY SHALL BE PROHIBITED FROM 5:00 AM TO 10:00 AM AND FROM 3:00 PM TO 8:00 PM DURING ALL WEEKDAYS TO MINIMIZE IMPACT TO TRAFFIC FLOW. HOURS MAY VARY ONLY WITH APPROVAL BY THE CITY TRAFFIC OPERATIONS MANAGER AND FDOT.

4. NO LANE CLOSURES SHALL BE ALLOWED WHITHIN 600 FT. OF IGNALIZED INTERSECTION FROM 7:00 AM TO 8:00 PM Daily". ONLY ONE LANE MAY BE CLOSED IN EACH DIRECTION

SIGNS:

EXISTING SIGN POST LOCATIONS HAVE NOT BEEN SHOWN IN THESE PLANS. ALL PRESENT TRAFFIC SIGNS AND DELINEATOR POSTS INCLUDING TEMPORARILY ONE ARE TO REMAIN IN PLACE

LANDSCAPE NOTES:

1. DELINEATE ALL PROPOSED BED AREAS AND FLAG ALL TREE AND PALM LOCATIONS PRIOR TO INSTALLATION. ALL PLANTING LOCATIONS MUST BE APPROVED BY, AND MAY BE ADJUSTED BY, THE LANDSCAPE ARCHITECT OR CITY PROJECT MANAGER.

2. CONTRACTOR IS RESPONSIBLE FOR THEIR OWN PLANT QUANTITY TAKE-OFF AND SHALL PROVIDE ALL PLANT MATERIAL REQUIRED AS SHOWN ON LANDSCAPE PLANS.

3. MULCH BEDS AND TREE RINGS WITH A 3" WETTED LAYER OF PINE STRAW MULCH.

4. CONTRACTOR SHALL GUARANTEE ALL INSTALLED PLANT MATERIAL FOR 1 CALENDAR YEAR FROM THE DATE OF ACCEPTANCE BY THE CITY AND FDOT. ANY SICK OR DEAD MATERIAL SHALL BE REPLACED IMMEDIATELY UPON NOTIFICATION BY THE CITY.

5. FERTILIZER SHALL BE APPLIED TO ALL PLANTING AREAS AT THE RATE OF 1½ LBS. OF ACTUAL NITROGEN, 1½LBS. OF ACTUAL PHOSPHORUS, AND 1½LBS. OF ACTUAL POTASH PER 1000 SQUARE FEET OF PLANTING AREA.

6. LANDSCAPE MATERIAL SHALL BE ADJUSTED IN THE FIELD TO AVOID CONFLICTS WITH ANY UTILITY STRUCTURES, DRAINAGE STRUCTURES, DITCHES, UNDERDRAINS, DITCH BLOCK, STORMWATER MANAGEMENT FACILITIES, DRAINAGE DISCHARGE PATHS, TRAFFIC SIGNAGE, ITS CAMERAS, LIGHTING AND THEIR APPURTENANCES. IF A CONFLICT EXISTS, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OR CITY PROJECT MANAGER PRIOR TO THE COMMENCEMENT OF ANY ACTIVITY. THE CONTRACTOR SHALL NOT KNOWINGLY PLACE PLANTS WHERE SUCH A CONFLICT EXISTS. ANY COSTS TO REMOVE AND/OR REPAIR WORK PLACED THAT HAS NOT BEEN APPROVED BY THE LANDSCAPE ARCHITECT OR CITY PROJECT MANAGER SHALL BE AT THE CONTRACTORS EXPENSE.

7. ALL EXISTING SIGNS ARE TO REMAIN, VERIFY ALL SIGN LOCATIONS TO ENSURE PROPOSED LANDSCAPING WILL NOT CONFLICT WITH CLEAR SIGHT TO ALL SIGNS. ANY SIGNS DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED AT NO ADDITIONAL COST. NOTIFY THE LANDSCAPE ARCHITECT OR CITY PROJECT MANAGER OF ANY POTENTIAL CONFLICTS WITH THE PROPOSED LANDSCAPE IMPROVEMENTS.

8. THERE IS EXISTING IRRIGATION IN THE MEDIANS FROM BEVILLE ROAD TO BELLEVUE AVE. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO THIS SYSTEM CAUSED BY HIS OPERATIONS AND TO MAKE NECESSARY ADJUSTMENT TO ACCOMMODATE NEW PLANTINGS. THIS WORK IS TO INCLUDE ALL LABOR AND PLANT MATERIALS NECESSARY TO PROVIDE 100% COVERAGE OF ALL NEW PLANTINGS AND TO ENSURE THAT SPRAY PATTERNS DO NOT ENCROACH INTO EXISTING DRIVE LANES AND REMAIN WITHIN LANDSCAPE MEDIANS. THE COST OF THIS WORK WILL BE INCLUDED IN THE UNIT COST FOR PLANT MATERIALS. THE COST OF ANY SUCH REPAIRS SHALL BE CONSIDERED PART OF THE UNIT PLANT COSTS.

9. ALL SOD AREAS DISTURBED FROM THE INSTALLATION OF THIS PROJECT IN THE MEDIAN AREAS THAT ARE NOT DESIGNATED FOR PLANTING BEDS OR MULCH RINGS SHALL BE REPAIRED WITH LIKE SOD, AND THE COST OF ANY SUCH REPAIRS SHALL BE CONSIDERED PART OF THE UNIT PLANT COSTS.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL EXCESS SOIL FROM ROOT BALL EXCAVATIONS IN ORDER TO MAINTAIN THE EXISTING GRADE AND DRAINAGE CHARACTERISTICS OF THE PRE-PLANTING CONDITION.

11. THE CONTRACTOR SHALL TREAT THE ROOT BALL OF ALL TREES AND SHRUBS IMMEDIATELY ADJACENT TO THE ROOT BALL IN THE UPPER 8-10 INCHES OF THE PLANTING HOLE WITH THE MANUFACTURER'S RECOMMENDED AMOUNT OF MYCORRHIZAL FUNGAL INOCULANTS, TO INCLUDE AT A MINIMUM THE FOLLOWING:

- ENDOMYCORRHIZAL FUNGUS

- ECTOMYCORRHIZAL FUNGUS

- FULVIC ACID

- TRICHODERMA

- PHOSPHATE SOLUBILIZATING, NITROGEN FIXING AND GROWTH PROMOTING BACTERIA

- HUMIC ACID DERIVED FROM LEONARDITE

- SEA KELP EXTRACT (ASCOPHYLLUM NODOSUM)

- YUCCA PLANT EXTRACT (YUCCA SCHIDIGERA)

- WATER HOLDING POLYMER (CROSS LINKED ACRYLAMIDE AND POTASSIUM ACRYLATE)

- PARTICLE SIZE: 0.8 MM TO 2.0 MM

- PERCENT SOLUBLE: LESS THAN 0.05%

- ABSORPTION RATE: 300-400 TIMES IN DISTILLED WATER

SUBMIT SAMPLE OF MYCORRHIZAL FOR ACCEPTANCE BY LANDSCAPE ARCHITECT.

12. SEE PLANS FOR LANDSCAPE SETBACKS FROM UTILITIES. WHEN NO SETBACK IS NOTED THE FOLLOWING SHALL APPLY:

DRAINAGE STRUCTURES

5'

OVERHEAD UTILITIES

10'

UNDERGROUND UTILITIES

5'

13. DURING CONSTRUCTION OF THE EXISTING ROADWAY LIMEROCK AND COMPACTED FILL MAY HAVE BEEN PLACED IN THE MEDIANS. THIS MATERIAL MUST BE REMOVED FROM ALL PLANTING AREAS AS PART OF THIS PROJECT. IT IS THE INTENT THAT SOIL AREAS AROUND ALL PROPOSED PLANTING MATERIALS BE REMOVED AND REPLACED WITH ACCEPTABLE SOILS AS IDENTIFIED IN THE 'SPECIAL BED PREPARATION NOTES'.

SPECIAL EVENTS

IN ACCORDANCE WITH FDOT SPECIFICATIONS 8-6.4, "SPECIAL EVENTS" INCLUDE, BUT ARE NOT LIMITED TO: ROLEX 24 AT DAYTONA, SPEEDWEEKS & DAYTONA 500, BIKE WEEK, COKE ZERO 400, BIKETOBERFEST, AND MOTORCYCLE RACING.

SPECIAL BED PREPARATION NOTES:

1. SOIL ANALYSIS SHALL BE REQUIRED PRIOR TO BEGINNING LANDSCAPE INSTALLATION IN ORDER TO DETERMINE EXTENT OF SOIL EXCAVATION AND NEW SOIL BEING ADDED TO THE PROPOSED PLANTING AREAS. ANALYSIS SHALL INCLUDE PERCOLATION RATES AND pH TESTING.

2. PERCOLATION TESTING SHALL BE DONE WITH A MINIMUM OF ONE PER MEDIAN WHERE PALMS ARE TO BE PLANTED. CONTRACTOR SHALL COORDINATE WITH THE CITY PROJECT MANAGER THE TIMING OF TESTS SO A REPRESENTATIVE MAY OBSERVE RESULTS AT THEIR DISCRETION. TESTING WILL BE CONDUCTED USING A 6" DIAMETER HOLE 36" DEEP. AN ACCEPTABLE RATE OF PERCOLATION IS 1" PER HOUR, AND ANY RESULTS NOT OBTAINING THAT RATE SHALL BE BROUGHT TO THE ATTENTION OF THE CITY FOR DETERMINATION OF HOW TO PROCEED.

3. SPECIAL BED PREPARATION:

PRIOR TO INSTALLATION OF ANY PLANTING MATERIAL, EXISTING SOD, LIMEROCK, COMPACTED SUBGRADE, CONSTRUCTION DEBRIS OR ANY OTHER MATERIAL DETRIMENTAL FOR HEALTHY PLANT GROWTH SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED SITE. SOIL REMOVED FROM PROPOSED PLANTING AREAS SHALL BE REPLACED WITH THE FOLLOWING PLANTING SOIL MIX.

- MINIMUM SOIL REMOVAL WITHIN THE MEDIANS SHALL BE A DEPTH OF 36" X 60" FOR PALMS AND 12" FOR SHRUB AND GROUNDCOVER BEDS.

- CONTRACTOR SHALL PROVIDE SOIL SAMPLE AND TEST RESULT OF pH AND NUTRIENT MAKEUP FOR APPROVAL PRIOR TO INSTALLATION.

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-4

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PAY ITEM NOTES:

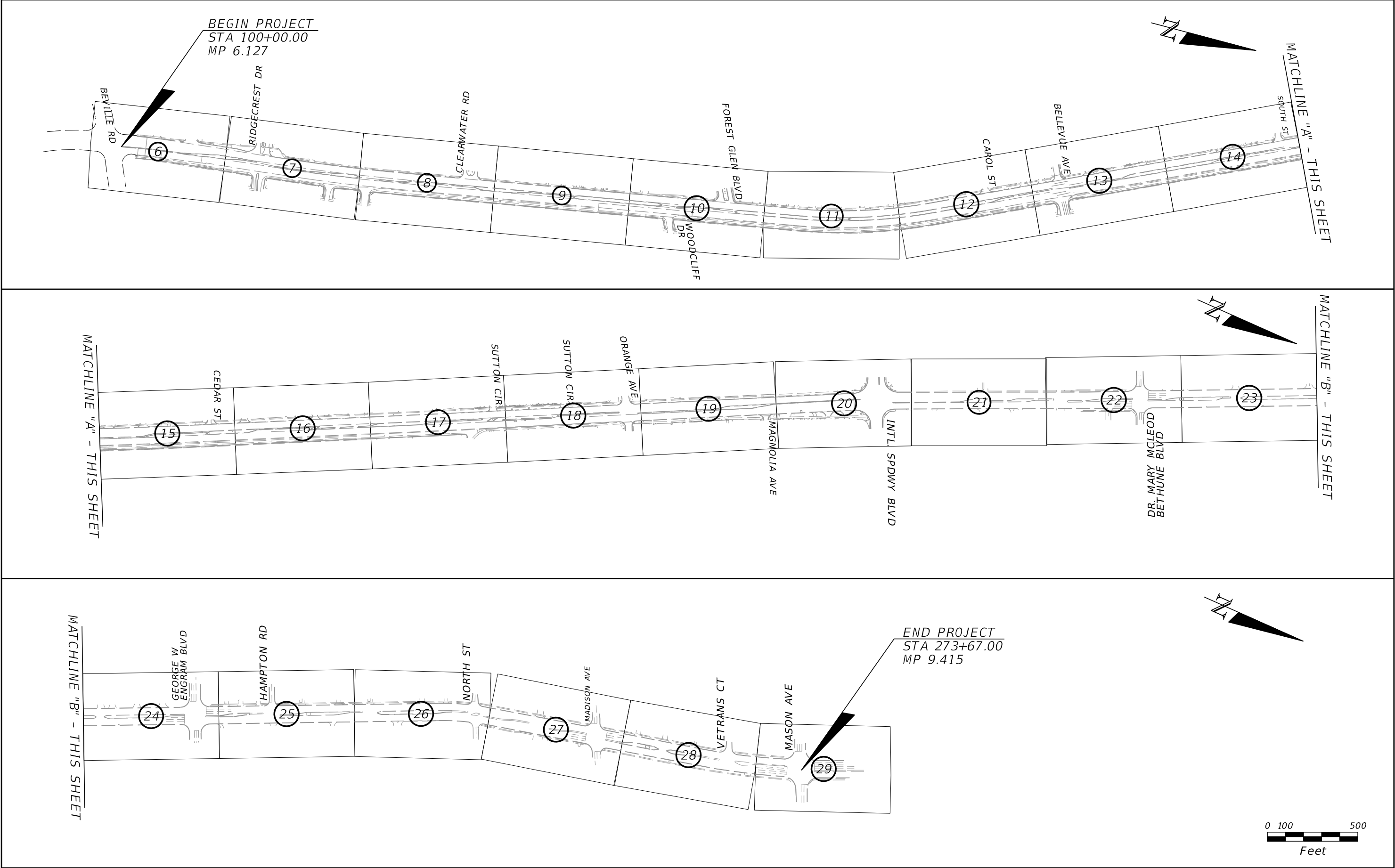
1. PAY ITEMS 580-1-1 (SMALL) AND 580-1-2 (LARGE), LANDSCAPE COMPLETE, UNIT COSTS SHALL INCLUDE:
- A. SPECIAL BED PREPARATION
 - B. PALMS & TREES, INCLUDING STAKING
 - C. SHRUBS & GROUND COVER
 - D. MYCORRHIZAL FUNGAL INOCULANTS
 - E. FERTILIZER
 - F. MULCH
 - G. SPECIAL SOIL MIX & SOIL AMENDMENTS
 - H. INTALLATION & ALL PAHES OF REQUIRED CONSTRUCTION
 - I. REPAIRS TO EXISTING IRRIGATION
 - J. SOD AS NEEDED FOR REPAIR OF AREAS DISTURBED

TRANSIT AGENCY CONTACT INFORMATION:

Transit Agency Contact Information for Volusia County					
	Contact person	Title	Phone	Extens ion	Email
Start Work Notifications	Cornel Mack	Votran Operation Manager	(386) 756-7496	4146	Cmack@volusia.org
	Elizabeth Suchsland	Assistant General Manager	(386) 756-7496	4127	esuchsland@volusia.org
	John Cotton	Transit Analyst	(386) 756-7496	4111	icotton@volusia.org
	Heather Blanck	Transit Coordinator	(386) 756-7496	4112	hblanck@volusia.org
Lane Closure Notifications	Cornel Mack	Votran Operation Manager	(386) 756-7496	4146	Cmack@volusia.org
	Elizabeth Suchsland	Assistant General Manager	(386) 756-7496	4127	esuchsland@volusia.org
	John Cotton	Transit Analyst	(386) 756-7496	4111	icotton@volusia.org
	Heather Blanck	Transit Coordinator	(386) 756-7496	4112	hblanck@volusia.org

CITY OF DAYTONA BEACH TECHNICAL MAINTENANCE SCHEDULE NOVA ROAD, BEVILLE TO MASON														
LOCAL GOVERNMENT COMMITMENT														
MAINTENANCE SERVICE ITEMS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	COMMENTS /SPECIFICATIONS	
1. Mowing	X		X	XX	XX	XX	XX	XX	XX	X	X		All mowing by City.	
	Turf areas to be maintained yearly at a 2.5 - 3" height.													
2. Fertilization		X				X				X			Test soil annually before fertilizing to determine proper analysis and application rate.	
	Apply a minimum of 1lb / 1000sf / application. Use balanced fertilizer,10-10-10 or 12-12-12, or other as recommended by soil test. Apply palm fertilizer with micornutrients. (Fe, Mn, Zn, Cu, B)													
3. Weeding	X		X		X		X		X		X		It's important to eradicate weeds before they are allowed to go to seed.	
	Weed all plant beds montly. Mechanical weed removal is prefered, but chemical treatment is acceptable.													
4. Edging	X		X		X	X	X	X	X		X			
	Edge back of curb and landscape beds when mowing . Edging debris shall be removed from pavement and beds.													
5. Herbicide/Insecticide	X			X			X			X			Trees and plams to be inspected and pruned for clearance quarterly to maintain 8.5' foliage height for trees and 24" ground cover height for clear sight window in medians per FDOT Index 546.	
	Provide insect and disease control inspections quarterly and treatment, if needed , quarterly. Treat exotic species removal areas to eliminate regrowth quarterly.													
6. Pruning	X			X			X			X			Maintain heads so as not to spray into travel lanes.	
	Prune Crape Myrtles in January, remove maximum 1/3rd height of tree; remove dead heads from Society Garlic as needed; trim suckering growth on ligustrum trees (do not shear);remove dead fronds and seed pods in fall from Palms.													
7. Mulching										X			Pick up litter prior to mowing operations.	
	Add additional mulch annually as necessary maintain mulch at a depth of 3".													
8. Irrigation	X	X	X	X	X	X	X	X	X	X	X	X	3.288 Miles MP 6.127 to MP 9.415	
	Set irrigation systems run times per County guidelines after first 90 day cycle to scheule supplied by Contractor. Inspect and run irigation system monthly for adjustment and proper coverage, and clean filters.													
9. Litter Pick-up	X	X	X	X	X	X	X	X	X	X	X	X		
	Remove litter monthly.													
10. Work Zone Control Plan	X	X	X	X	X	X	X	X	X	X	X	X		
	Per FDOT Requirements for work being perfomed according to FDOT Standard Index 605, 611, 612, 612 and 660.													
11. Estimate of Manpower and Equipment													Approved by: City of Daytona Beach	
Approved by: City of Daytona Beach	Name:												Date:	

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PAY ITEM NOTES , TRANSIT NOTE AND MAINTENANCE SCHEDULE		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					SR 5A	VOLUSIA	4378551-58-01			LD-4A



REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT LAYOUT	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-5
					SR 5A	VOLUSIA	437855-1-58-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.



CURVE DATA	
PI STA.	= 102+55.18
Δ	= 4° 10' 32" (RT)
D	= 0° 49' 07"
T	= 255.18
L	= 510.14
R	= 7,000.00
PC STA.	= 100+00.00
PT STA.	= 105+10.14

DESIGN SPEED 50 MPH

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO. LD-6
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-6



MATCHLINE - SEE SHEET LD-8

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-7
					SR 5A	VOLUSIA	437855-1-58-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-7



MATCHLINE - SEE SHEET LD-9

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-8

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-8



MATCHLINE - SEE SHEET LD-10

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REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-9

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MATCHLINE - SEE SHEET LD-9



MATCHLINE - SEE SHEET LD-11

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

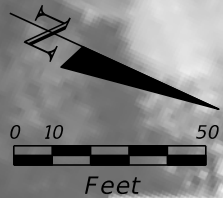
REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-10



REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-11

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-11



CURVE DATA

PI STA.	= 141+62.93
Δ	= 15° 26' 19" (LT)
D	= 2° 07' 19"
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L	= 727.53
R	= 2,700.00
PC STA.	= 137+96.95
PT STA.	= 145+24.48

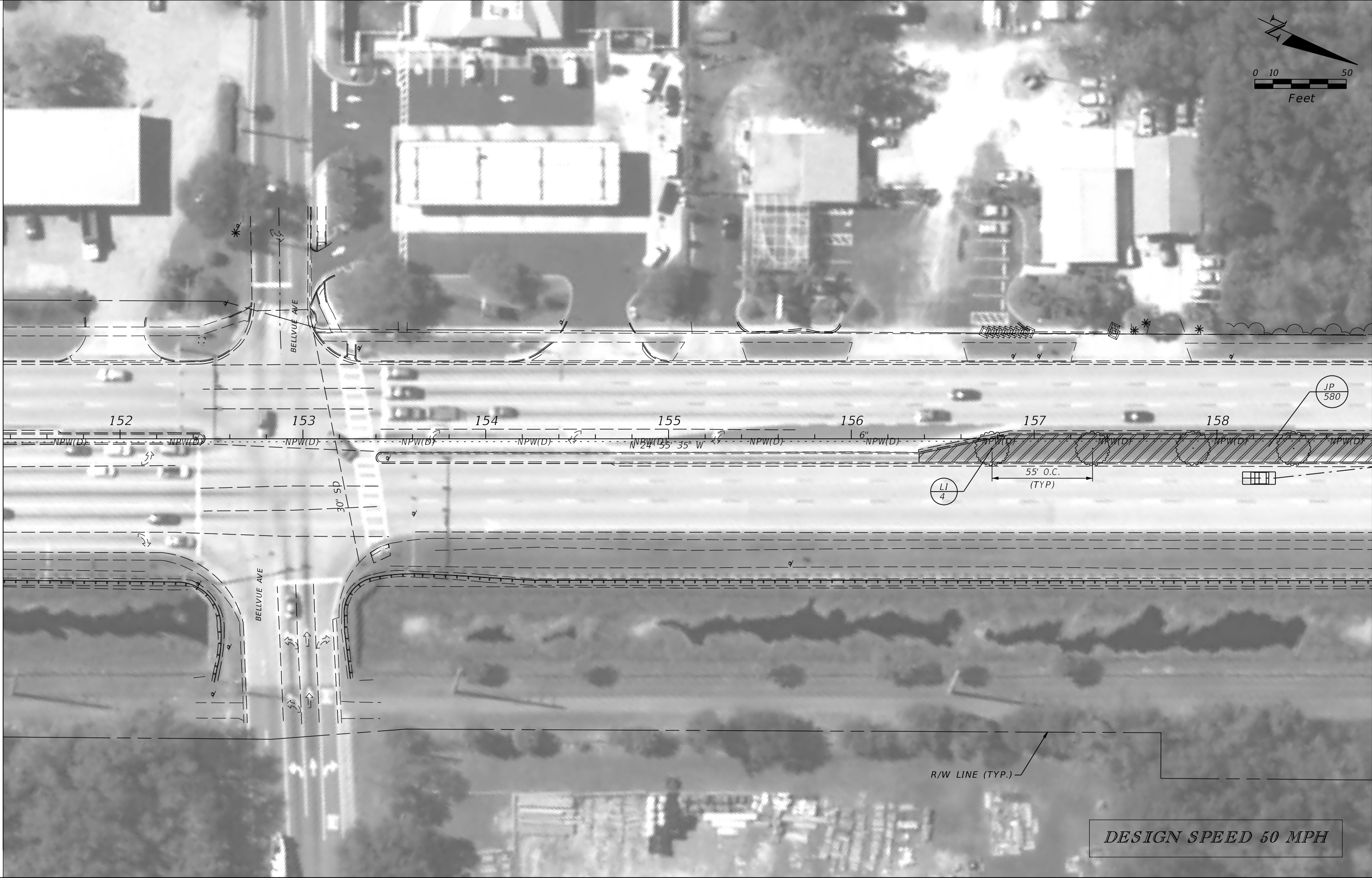
DESIGN SPEED 50 MPH

MATCHLINE - SEE SHEET LD-13

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-12

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-12



MATCHLINE - SEE SHEET LD-14

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-13

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-13



MATCHLINE - SEE SHEET LD-15

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-14

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-14



MATCHLINE - SEE SHEET LD-16

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-15

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-15

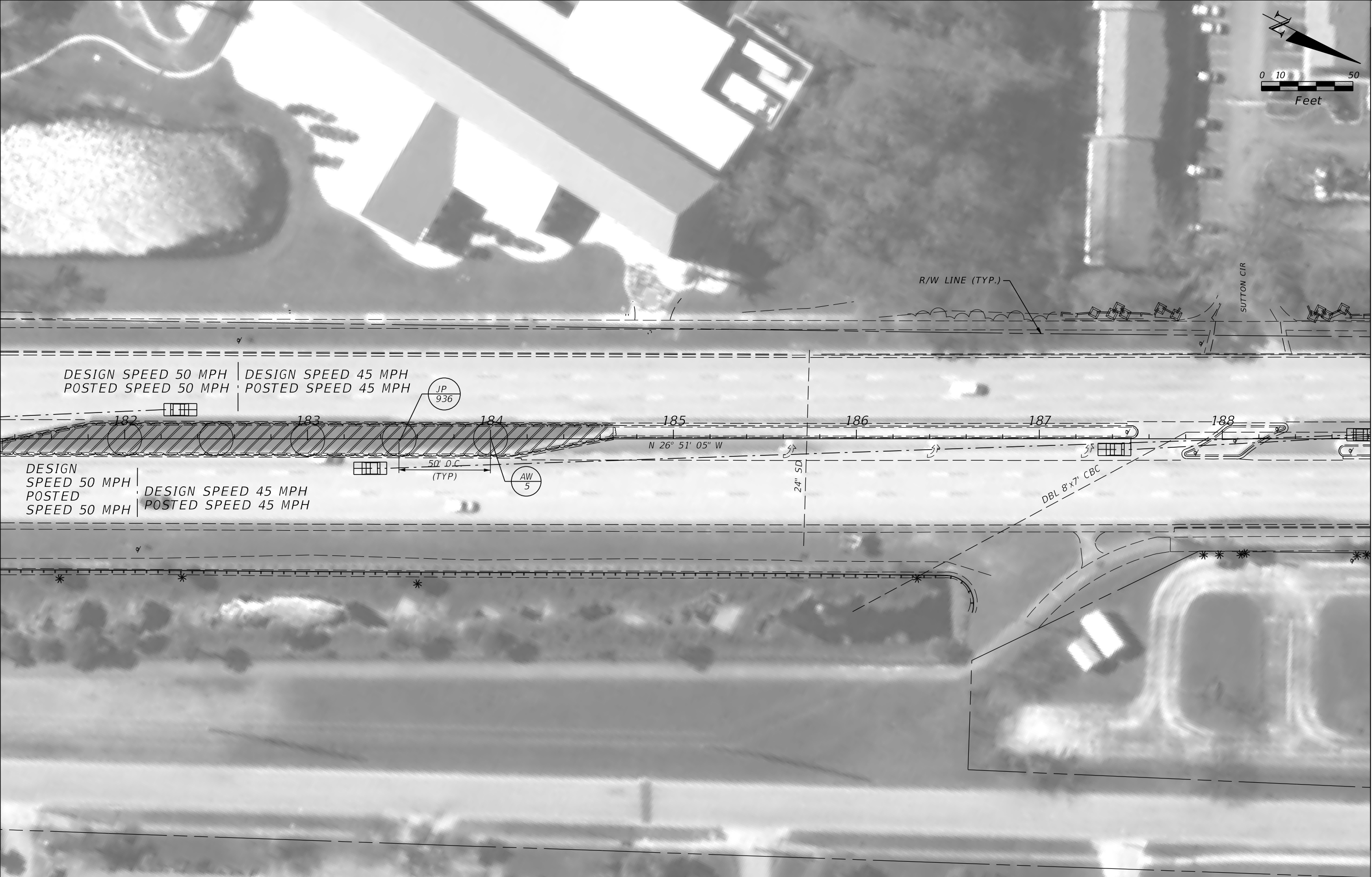


MATCHLINE - SEE SHEET LD-17

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-16

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-16

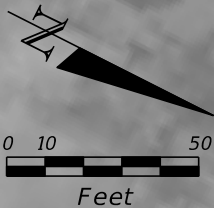


MATCHLINE - SEE SHEET LD-18

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-17

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-17



DESIGN SPEED 45 MPH

NO LANDSCAPING THIS SHEET

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-18

MATCHLINE - SEE SHEET LD-19

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

MATCHLINE - SEE SHEET LD-18

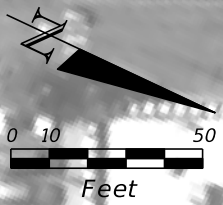


MATCHLINE - SEE SHEET LD-20

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-19

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-19



DESIGN SPEED 45 MPH

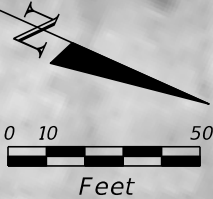
NO LANDSCAPING THIS SHEET

MATCHLINE - SEE SHEET LD-21

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						LD-20
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-20

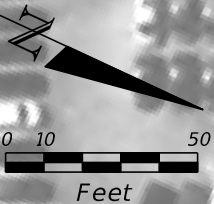


MATCHLINE - SEE SHEET LD-22

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPING PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-21

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-21



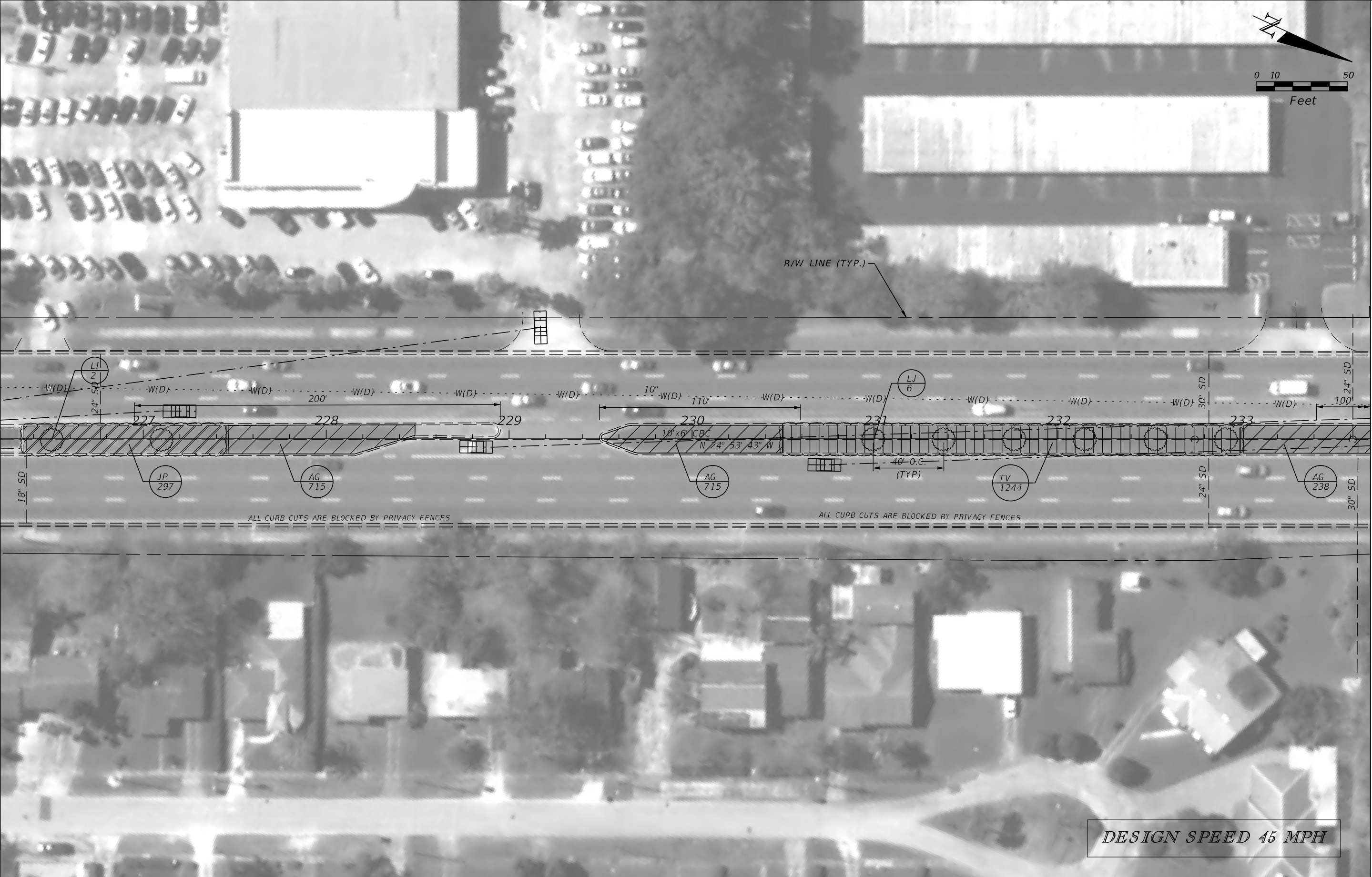
DESIGN SPEED 45 MPH

MATCHLINE - SEE SHEET LD-23

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPING PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-22

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-22



MATCHLINE - SEE SHEET LD-24

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPING PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-23

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MATCHLINE - SEE SHEET LD-23

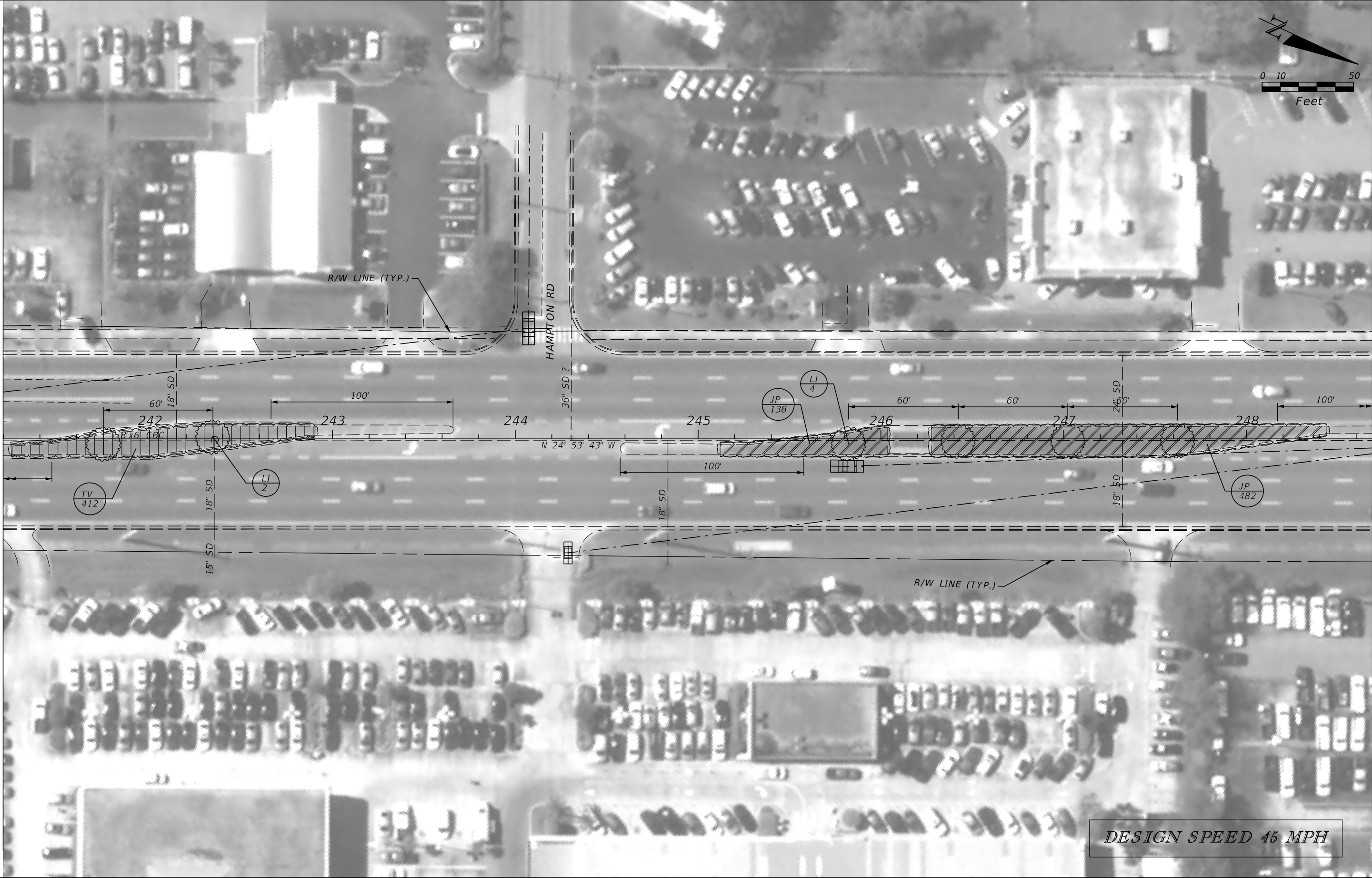


MATCHLINE - SEE SHEET LD-25

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPING PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-24

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-24



MATCHLINE - SEE SHEET LD-26

DESIGN SPEED 45 MPH

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-25

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-25



CURVE DATA
PI STA. = 254+86.39
 Δ = 11° 48' 00" (RT)
D = 4° 09' 12"
T = 142.56
L = 284.11
R = 1,379.52
PC STA. = 253+43.83
PT STA. = 256+27.94

DESIGN SPEED 45 MPH

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-26

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-26



MATCHLINE - SEE SHEET LD-28

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-27

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.



CURVE DATA

PI STA.	=	270+78.83
Δ	=	8° 42' 08" (LT)
D	=	1° 30' 25"
T	=	289.29
L	=	577.46
R	=	3,801.97
PC STA.	=	267+89.54
PT STA.	=	273+67.00

MATCHLINE - SEE SHEET LD-29

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-28
					SR 5A	VOLUSIA	437855-1-58-01		



REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO. LD-29
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO. SR 5A	COUNTY VOLUSIA	FINANCIAL PROJECT ID 437855-1-58-01		

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IRRIGATION NOTES



























1. THE PLANS AND DRAWINGS ARE DIAGRAMMATIC OF THE WORK TO BE PERFORMED. SOME COMPONENTS MAY BE SHOWN OUTSIDE THE WORK AREA FOR CLARITY. THE WORK SHALL BE EXECUTED IN A MANNER TO AVOID CONFLICTS WITH UTILITIES AND OTHER ELEMENTS OF CONSTRUCTION, INCLUDING LANDSCAPE MATERIALS. ALL DEVIATIONS FROM THE PLANS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE BEING INSTALLED. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY ASPECT OF THE IRRIGATION SYSTEM AS SHOWN ON THE PLANS AND DRAWINGS, WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES, OR DISCREPANCIES EXIST THAT MIGHT NOT HAVE BEEN KNOWN DURING THE DESIGN OF THE IRRIGATION SYSTEM. IN THE EVENT THAT NOTIFICATION OF THE CONFLICT IS NOT APPROVED BY THE OWNER'S REPRESENTATIVE, THE CONTRACTOR WILL ASSUME FULL RESPONSIBILITY FOR ALL REVISIONS.
2. THE IRRIGATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS, IRRIGATION SYSTEM SPECIFICATIONS AND ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL COMPLY WITH ALL PREVAILING LOCAL CODES, ORDINANCES, AND REGULATIONS.
3. CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS, INCLUDING UTILITY LOCATIONS, BEFORE INSTALLATION OF THE IRRIGATION SYSTEM. ALL UTILITIES AND STRUCTURES MAY NOT BE SHOWN ON THE PLANS - CONTRACTOR TO VERIFY. COORDINATE ALL IRRIGATION SYSTEM CONSTRUCTION WITH EXISTING AND NEW PLANTINGS TO AVOID CONFLICT OR INTERFERENCE WITH LOCATION OF PIPING, SLEEVING, CABLES, AND SERVICE UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION WITH ALL OTHER CONSTRUCTION ON SITE, ESPECIALLY LANDSCAPE INSTALLATION. IRRIGATION SYSTEM SHALL BE RELOCATED AT NO ADDITIONAL COST FOR ANY CONFLICT WITH LANDSCAPE INSTALLATION OR ANY OTHER SITE CONSTRUCTION OR EXISTING CONDITIONS. ALL COMPONENTS THAT ARE NOT CONTAINED WITHIN THE SPECIFIC AREAS SHOWN OR CALLED OUT ON THE DRAWINGS WILL NOT BE ACCEPTED. ALL PIPING AND OTHER COMPONENTS ARE TO REMAIN WITHIN THE PROPERTY OF THE OWNER.
4. WHERE EXISTING OR NEW TREES, LIGHT STANDARDS, SIGNS, ELECTRONIC CONTROLLERS AND/OR OTHER OBJECTS ARE AN OBSTRUCTION TO AN IRRIGATION SPRINKLER'S PATTERN, THE COMPONENT AND PIPING SHALL BE RELOCATED AS NECESSARY TO OBTAIN PROPER COVERAGE OF AN IRRIGATION SPRINKLER'S PATTERN, THE COMPONENT AND PIPING SHALL BE RELOCATED AS NECESSARY TO OBTAIN THE PROPER COVERAGE WITHOUT DAMAGING THE OBSTRUCTION. OWNER'S REPRESENTATIVE SHALL DETERMINE WHETHER AN OBSTRUCTION OCCURS OR NOT.
5. COMPONENT SPACINGS ARE MAXIMUM. DO NOT EXCEED SPACINGS SHOWN OR NOTED ON THE PLANS. COMPONENT SPACINGS MAY BE ADJUSTED TO ACCOMMODATE CHANGES IN TERRAIN AND PLANTING LAYOUT AS LONG AS THE MODIFIED SPACINGS DO NOT EXCEED THE SPACINGS SHOWN IN THE PLANS. UNLESS SHOWN OTHERWISE, CONTRACTOR SHALL PROVIDE 100% COVERAGE.
6. ALL MATERIALS AND EQUIPMENT SHOWN SHALL BE NEW AND INSTALLED AS DETAILED ON THE PLANS. IF THE DRAWINGS DO NOT THOROUGHLY DESCRIBE THE TECHNIQUES TO BE USED, THE INSTALLER SHALL FOLLOW THE INSTALLATION METHODS AND INSTRUCTIONS RECOMMENDED BY THEIR MANUFACTURER.
7. THE LOCATION OF THE IRRIGATION MAINLINE SHALL BE IDENTIFIED IN THE FIELD AND APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE INSTALLATION. MAINLINE TO BE INSTALLED A MINIMUM OF FIVE FEET OFF EDGE OF PAVEMENT IN MEDIANS. SHOWN OUTSIDE FOR CLARITY PURPOSES ONLY.
8. IRRIGATION CONTRACTOR SHALL ADJUST ALL SPRINKLERS, CONTROLLER AND OTHER DEVICES TO OBTAIN SPECIFIED OPERATING PARAMETERS, INCLUDING COVERAGE, OPERATING PRESSURE, FLOW RATES AND OPERATION TIME, AS INDICATED ON THE DRAWINGS AND IN THE IRRIGATION SYSTEM SPECIFICATIONS.
9. CONTRACTOR TO PROVIDE INSTALLATION SHOP DRAWINGS AND MANUFACTURER PRODUCT INFORMATION FOR ALL IRRIGATION COMPONENTS. ALL INSTALLATIONS SHALL BE AS RECOMMENDED BY MANUFACTURERS. THE QUANTITIES SHOWN IN THE LEGENDS AND SYMBOL SHEETS SHALL NOT BE USED FOR BIDDING PURPOSES. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONDUCTING A COMPREHENSIVE MATERIALS TAKEOFF TO DETERMINE THE ACTUAL QUANTITIES OF MATERIAL NECESSARY TO EXECUTE THE WORK DESCRIBED IN THE DOCUMENTS.
10. ALL TRENCHES SHALL BE BACKFILLED WITH CLEAN, DEBRIS-FREE MATERIALS. CLEAN SAND SHALL BE USED FOR BEDDING MATERIAL IF PARENT SOIL CANNOT BE ADEQUATELY RID OF ROCK (5#8" AND LARGER) AND OTHER EXTRANEIOUS DEBRIS. PULLING PIPE SHALL BE PROHIBITED.
11. ALL SOLVENT WELDING SHALL BE PRECEDED BY PRIMING OF THE FITTINGS AND PIPE AS RECOMMENDED BY THE MANUFACTURER.
12. CONTRACTOR TO LABEL ALL VALVE BOX COVERS WITH THE CORRESPONDING CONTROLLER ZONE NUMBER. NUMBERING SIZE 1". ALL VALVE BOXES TO HAVE BOLT DOWN COVER WITH BOLT INSTALLED.
13. CONTRACTOR TO PLACE BUBBLERS AT OUTER EDGE OF ROOT BALL, NOT OUTER EDGE OF PLANTING HOLE.














- 14.ALL WIRE SPLICES TO BE MADE WITH KINGBLACK WIRE CONNECTORS OR APPROVED EQUAL.
- 15.IRRIGATION CONTRACTOR SHALL INSTALL A IRROMETER WATERMARK 200SS SOIL MOISTURE SENSOR COMPATIBLE WITH DC VOLTAGE FOR EACH CONTROLLER. INSTALL SOIL MOISTURE SENSOR THREE FEET OFF EDGE OF PAVEMENT. LOCATION SHALL BE DOCUMENTED ON AS BUILT PLANS WITH A MINIMUM OF TWO REFERENCE POINTS. INSTALL SOIL MOISTURE SENSOR PER MANUFACTURE SPECIFICATIONS.
- 16.LOCATE ALL VALVES WITH A MINIMUM OFFSET OF 5'-0" FROM BACK OF CURB OR EDGE OF PAVEMENT.
- 17.THE IRRIGATION CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR ALL DIRECTIONAL BORING.
- 18.ALL UN-SIZED PIPE SHALL BE 3/4".
- 19.IRRIGATION LATERAL LINES TO BE BURIED AT A DEPTH OF 12".
- 20.IRRIGATION MAINLINES TO BE BURIED AT A DEPTH OF 18".
- 21.ALL COMPONENTS INSTALLED BY THE IRRIGATION CONTRACTOR, SHALL BE LOCATED ON THE "AS-BUILT" DRAWINGS. THE EXACT LOCATION AND DEPTH BELOW FINISH GRADE OF ALL COMPONENTS SHALL BE NOTED ON THE "AS-BUILT" DRAWINGS.
- 22.IRRIGATION CONTRACTOR SHALL SECURE ANY AND ALL NECESSARY PERMITS FOR THE WORK PRIOR TO COMMENCEMENT OF HIS OPERATIONS ON-SITE. COPIES OF THE PERMITS SHALL BE SENT TO THE LANDSCAPE SUPERVISOR. WORK IN THE RIGHT OF WAY SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL AND/OR STATE HIGHWAY JURISDICTION.
- 23.INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY FLOW OF VEHICULAR TRAFFIC AND COMPLETION OF ALL WORK ON THE SITE.
- 24.THE CITY OF DAYTONA BEACH SHALL BE RESPONSIBLE FOR ALL CONSUMPTION COST FOR WATER SERVICE TO IRRIGATION SYSTEM.
- 25.DIRECTIONAL BORES SHALL BE INSTALLED IN ACCORDANCE WITH FDOT SPECIFICATIONS SECTION 555 FOR PRESSURIZED PIPES. INSTALL HDPE X SCHEDULE 40 FUSED ENDS FOR 2" CROSSING AT MEDIAN IN FRONT OF CEMETERY.
- 26.IRRIGATION SYSTEM SHALL HAVE RECLAIMED WATER IDENTIFICATION SIGNS INSTALLED AT ONE VALVE GROUP WITHIN EACH IRRIGATED MEDIAN. ALL RECLAIMED WATER SYSTEM PIPING, FIXTURES AND DEVICES SHALL BE COLOR CODED PURPLE. THE COLOR PURPLE SHALL BE ADDED PIGMENT TO THE MATERIAL AT THE TIME OF MANUFACTURE. ALL RECLAIMED WATER VALVE BOXES SHALL BE LABELED RECLAIMED WATER AND COLOR CODED PURPLE.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-30
					SR 5A	VOLUSIA	437855-1-58-01		

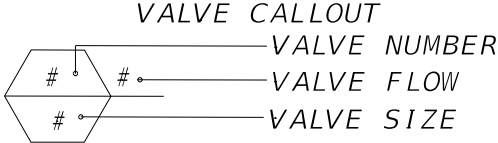
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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	ARC	PSI	GPM	RADIUS
	6" Pop Up Spray 15 Strip Series	10	LCS	30	0.49	4'x15'
	6" Pop Up Spray 15 Strip Series	6	RCS	30	0.49	4'x15'
	6" Pop Up Spray 15 Strip Series	83	SST	30	1.21	4'x30'
	6" Pop Up Spray 8 Series MPR	36	180	30	0.52	8'
	6" Pop Up Spray 8 Series MPR	1	90	30	0.26	8'
	6" Pop Up Spray 10 Series MPR	10	180	30	0.79	10'
	6" Pop Up Spray 12 Series MPR	13	180	30	1.30	12'
	6" Pop Up Spray 15 Series MPR	89	180	30	1.85	15'
	6" Pop Up Spray 15 Series MPR	10	90	30	0.92	15'
	6" Pop Up Spray 15 Series VAN	3	Adj	30		15'
	12" Pop Up Spray 15 Strip Series	14	LCS	30	0.49	4'x15'
	12" Pop Up Spray 15 Strip Series	23	SST	30	1.21	4'x30'
	12" Pop Up Spray 8 Series MPR	119	180	30	0.52	8'
	12" Pop Up Spray 8 Series MPR	12	90	30	0.26	8'
	12" Pop Up Spray 10 Series MPR	51	180	30	0.79	10'
	12" Pop Up Spray 12 Series MPR	55	180	30	1.30	12'
	12" Pop Up Spray 15 Series MPR	179	180	30	1.85	15'
	12" Pop Up Spray 15 Series MPR	19	90	30	0.92	15'
	12" Pop Up Spray 15 Series MPR	1	120	30	1.23	15'
	12" Pop Up Spray 12 Series HE VAN	3	Adj	30		12'
	12" Pop Up Spray 15 Series HE VAN	17	Adj	30		15'
	12" Pop Up Spray 8 Series VAN	2	Adj	30		8'
	12" Pop Up Spray 10 Series VAN	2	Adj	30		10'
	12" Pop Up Spray 15 Strip Series	1	LCS	30	.49	4x15
	12" Pop Up Spray 15 Strip Series	2	SST	30	1.21	4'x30'
	Two Rain Bird 1401 bubbler	52	360	30	0.50	1'

SYMBOL	MANUFACTURER/MODEL	QTY
	Remote Control Valve 1" in 12" Valve Box	54
	Battery Operated Controller 1 station	1
	Battery Operated Controller 2 station	6
	Battery Operated Controller 4 station	11
	Point of Connection- Install new 4"x2" service tap into existing 4" reclaimed water line.	1
	Point of Connection- Install new 6"x2" service tap into existing 6" reclaimed water line.	1
	Point of Connection- Install new 8"x2" service tap into existing 8" reclaimed water line.	1
	Point of Connection- Locate existing reclaimed water tap to irrigation in medians. Install new reclaimed water line as shown so the median between stations 104 and 108 has a functional water supply to existing irrigation.	2
	Irrigation Lateral: PVC Class 200 SDR 21 Purple	11,000 l.f.
	Irrigation Main: PVC 2-1/2" Schedule 40 Purple	8,540 l.f.
	Irrigation Main: PVC 2" Schedule 40 Purple	760 l.f.
	Irrigation Main: PVC 1-1/2" Schedule 40 Purple	700 l.f.
	Direction Bore: HDPE 3608 with fused ends to pipe thread to be used as mainline without a sleeve.	2,600 l.f.
IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THIER OWN TAKE-OFF		

VALVE CALLOUT



VALVE NUMBER

VALVE FLOW

VALVE SIZE

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-30A
					SR 5A	VOLUSIA	437855-1-58-01		

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IRRIGATION TABULATION OF QUANTITIES (DIRECTIONAL BORE)

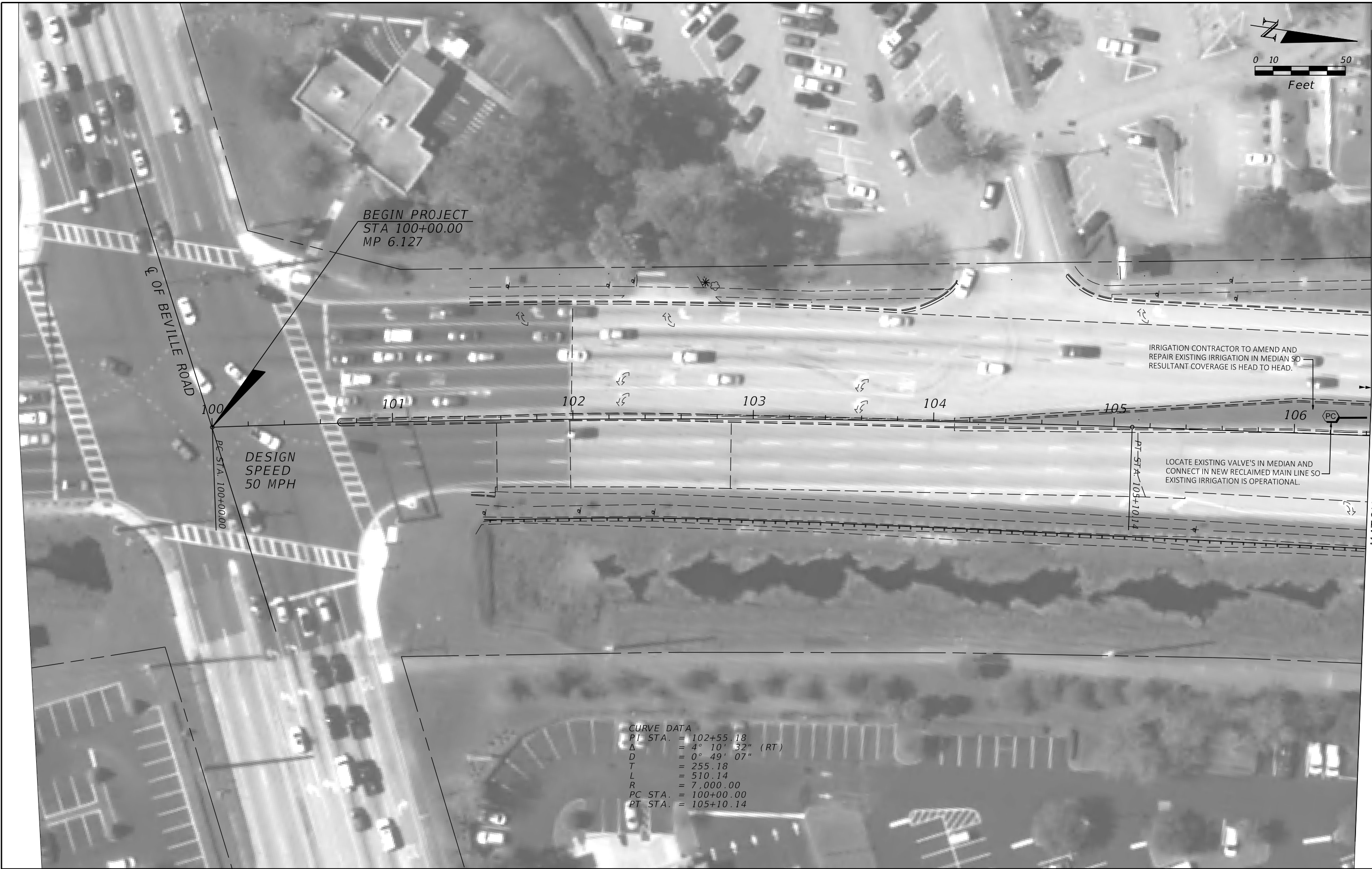
DESCRIPTION	LOCATION STA. TO STA.	UNIT	SHEET NUMBERS															
			LD-31		LD-32		LD-33		LD-34		LD-35		LD-36		LD-37		LD-38	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
2" HDPE 3608 PIPE	107+36.76 TO 111+30.12	LF			394													

DESCRIPTION	LOCATION STA. TO STA.	UNIT	SHEET NUMBERS															
			LD-39		LD-40		LD-41		LD-42		LD-43		LD-44		LD-45		LD-46	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
2" HDPE 3608 PIPE	160+25.13	LF	51															
	173+62.42	LF			50													
	182+75.46	LF							47									
	196+21.85	LF									101							
	202+08.30	LF											44					
	218+31.14 TO 218+76.95	LF															45	

DESCRIPTION	LOCATION STA. TO STA.	UNIT	SHEET NUMBERS															
			LD-47		LD-48		LD-49		LD-50		LD-51		LD-52		LD-53		LD-54	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
2" HDPE 3608 PIPE	218+76.95 TO 220+76.00	LF	200															
	221+90.41 TO 225+16.06	LF	326															
	228+45.40 TO 229+55.10	LF			110													
	234+04.60	LF					55											
	239+26.30 TO 241+19.81	LF					194											
	241+19.81 TO 241+27.07	LF							8									
	242+87.36 TO 245+14.46	LF							228									
	248+42.03 TO 248+68.81	LF							27									
	248+68.81 TO 250+06.81	LF									139							
	253+68.67 TO 254+07.88	LF									62							
	254+89.69 TO 255+63.26	LF									77							
	258+57.35 TO 259+24.19	LF											67					
	261+47.84 TO 262+54.04	LF											107					
	253+94.70 TO 264+20.78	LF													57			
	265+64.04 TO 266+21.84	LF													58			

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TABULATION OF QUANTITIES DIRECTIONAL BORE	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-30B
					SR 5A	VOLUSIA	437855-1-58-01		

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CURVE DATA	
PI STA.	= 102+55.18
Δ	= 4° 10' 32" (RT)
D	= 0° 49' 07"
T	= 255.18
L	= 510.14
R	= 7,000.00
PC STA.	= 100+00.00
PT STA.	= 105+10.14

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		

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MATCHLINE - SEE SHEET LD-31



MATCHLINE - SEE SHEET LD-33

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-32

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MATCHLINE - SEE SHEET LD-32

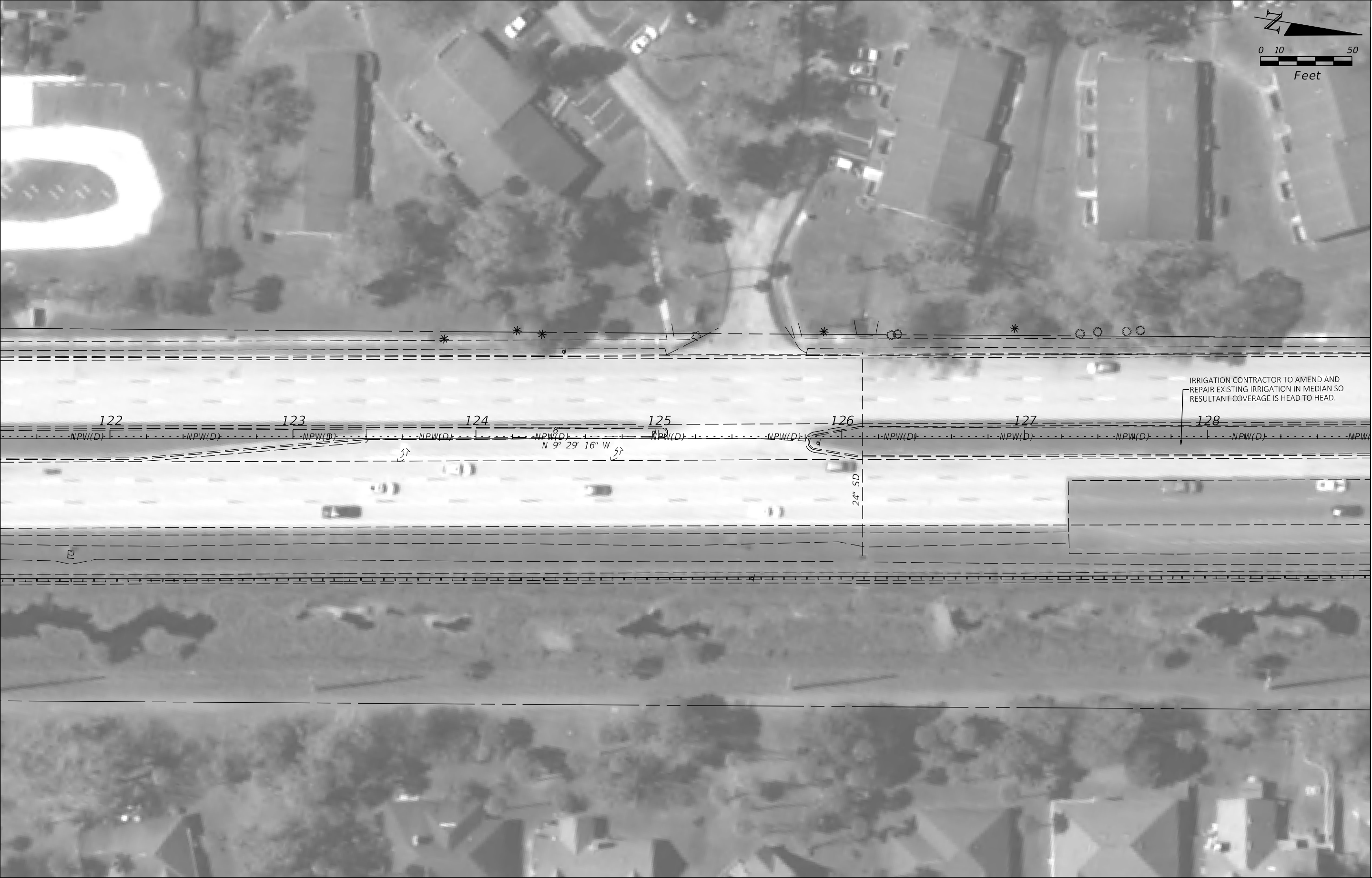


MATCHLINE - SEE SHEET LD-34

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-33

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MATCHLINE - SEE SHEET LD-33



MATCHLINE - SEE SHEET LD-35

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-34

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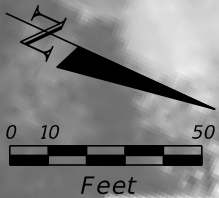
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REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-36

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MATCHLINE - SEE SHEET LD-36

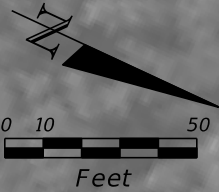


MATCHLINE - SEE SHEET LD-38

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
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					SR 5A	VOLUSIA	437855-1-58-01		LD-37

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MATCHLINE - SEE SHEET LD-37



MATCHLINE - SEE SHEET LD-39

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
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					SR 5A	VOLUSIA	437855-1-58-01		LD-38

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MATCHLINE - SEE SHEET LD-38



MATCHLINE - SEE SHEET LD-40

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-39

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MATCHLINE - SEE SHEET LD-39

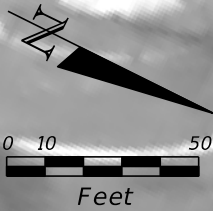


MATCHLINE - SEE SHEET LD-41

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-40

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MATCHLINE - SEE SHEET LD-40

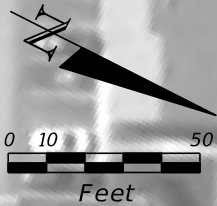


MATCHLINE - SEE SHEET LD-42

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-41

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-41

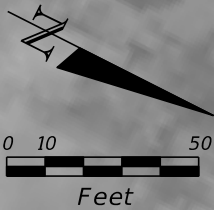


MATCHLINE - SEE SHEET LD-43

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-42
					SR 5A	VOLUSIA	437855-1-58-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-42

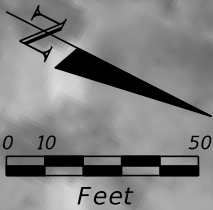
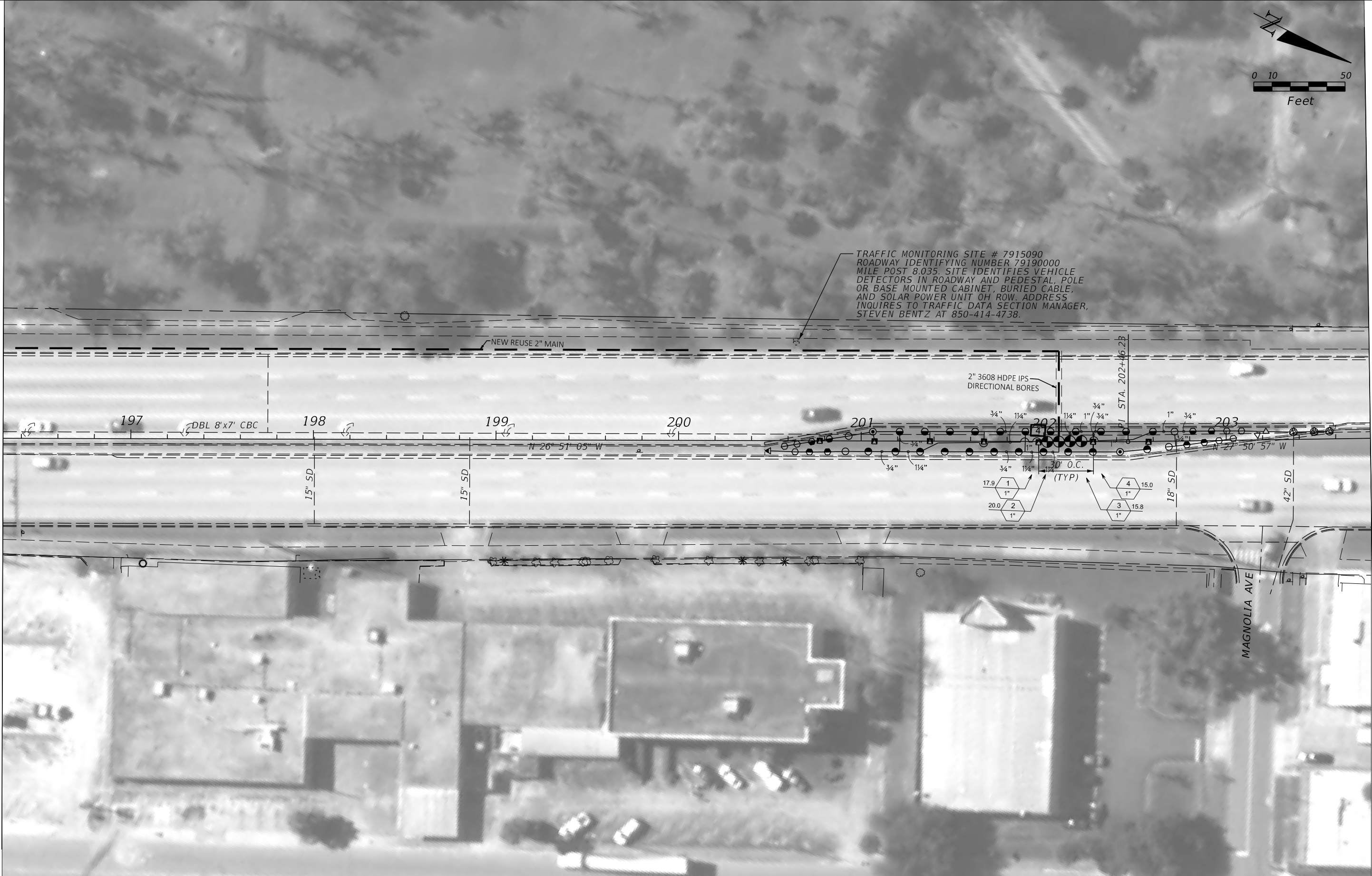


MATCHLINE - SEE SHEET LD-44

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-43

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-43



TRAFFIC MONITORING SITE # 7915090
ROADWAY IDENTIFYING NUMBER 79190000
MILE POST 8.035. SITE IDENTIFIES VEHICLE
DETECTORS IN ROADWAY AND PEDESTAL, POLE
OR BASE MOUNTED CABINET, BURIED CABLE,
AND SOLAR POWER UNIT OH' ROW. ADDRESS
INQUIRES TO TRAFFIC DATA SECTION MANAGER,
STEVEN BENTZ AT 850-414-4738.

MATCHLINE - SEE SHEET LD-45

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-44

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.



REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-45

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-45

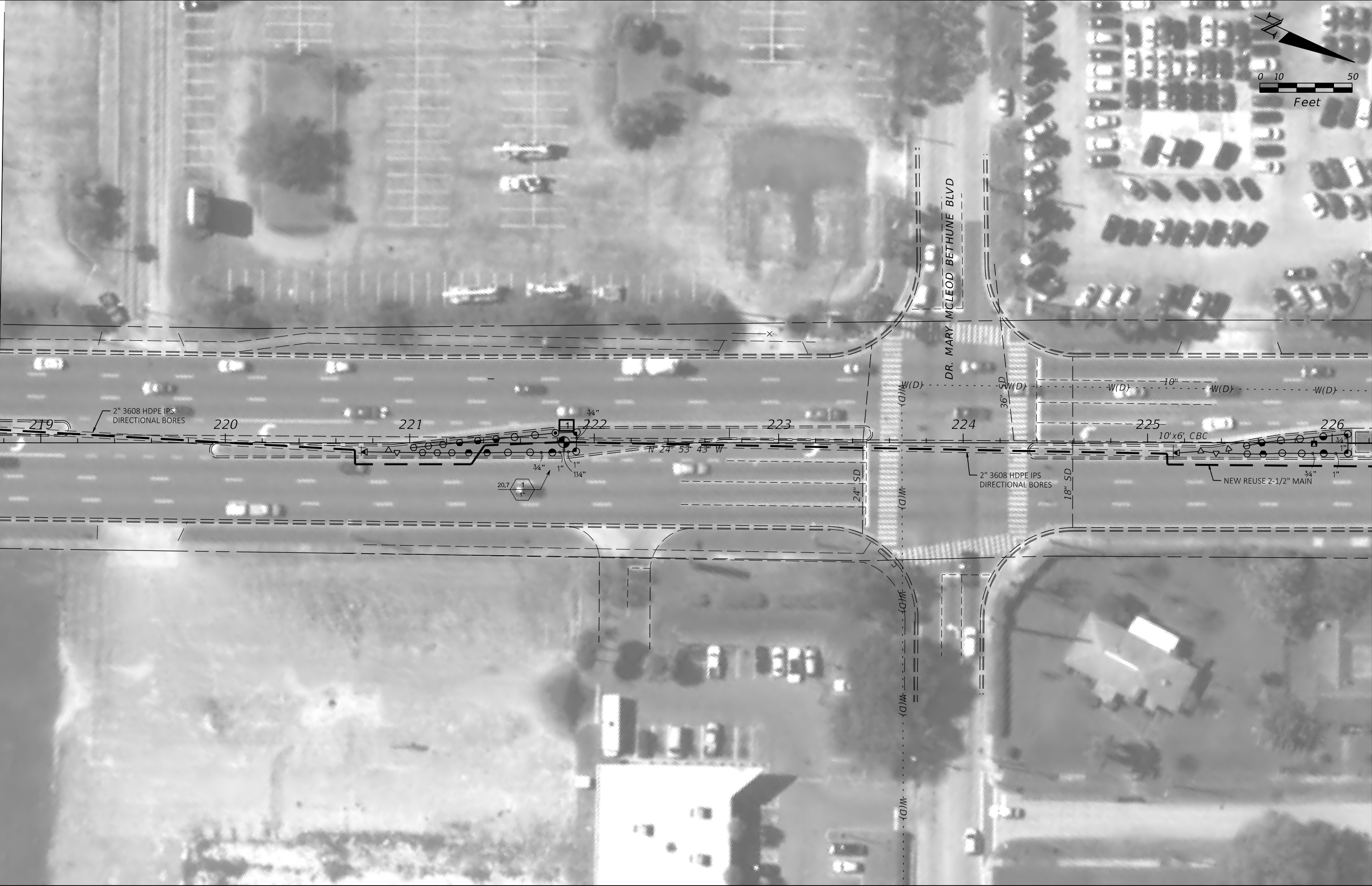


MATCHLINE - SEE SHEET LD-47

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-46

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

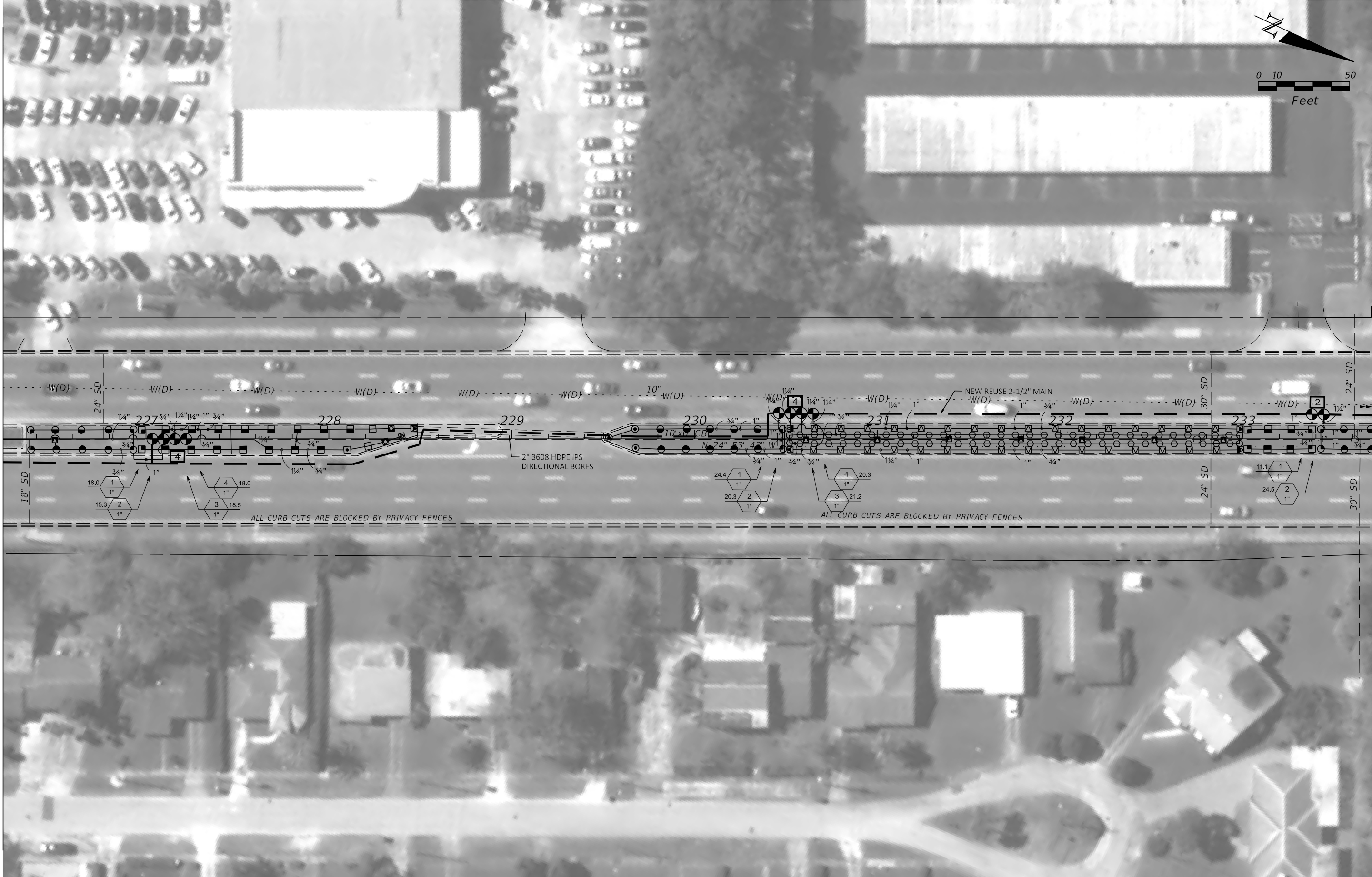
MATCHLINE - SEE SHEET LD-46



MATCHLINE - SEE SHEET LD-48

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-47

MATCHLINE - SEE SHEET LD-47



MATCHLINE - SEE SHEET LD-49

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-48

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-48

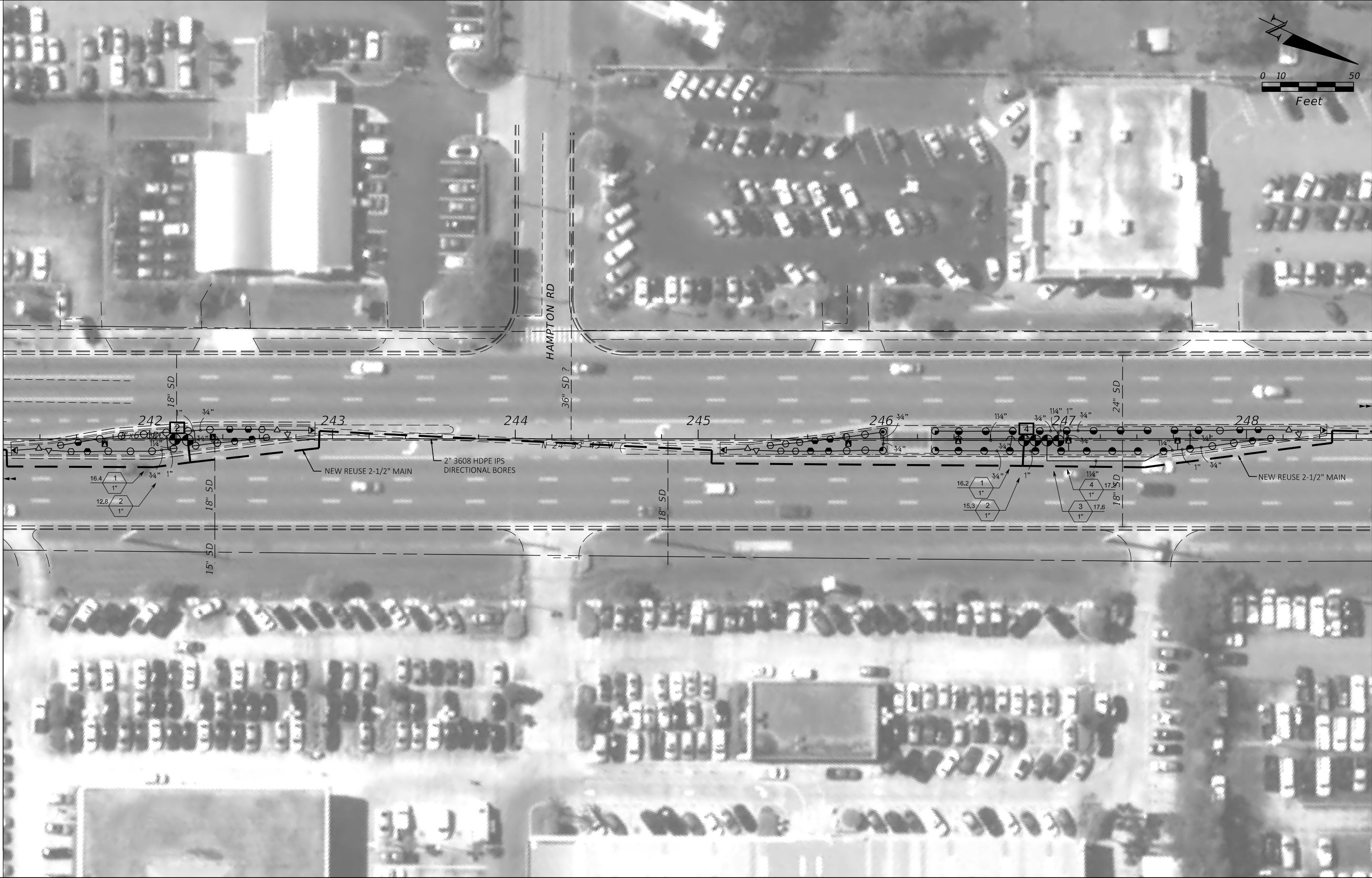


MATCHLINE - SEE SHEET LD-50

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-49
					SR 5A	VOLUSIA	437855-1-58-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-49

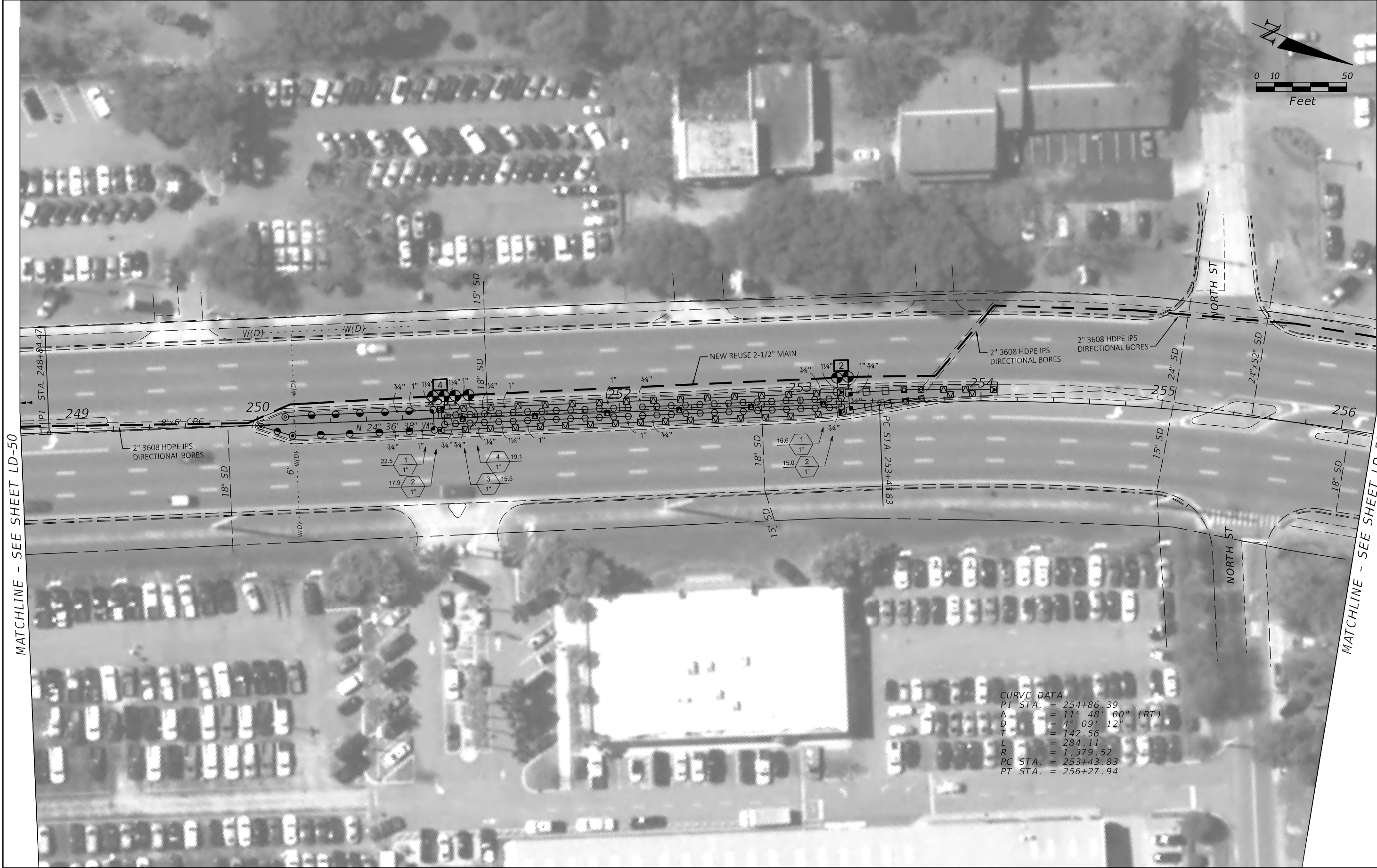


MATCHLINE - SEE SHEET LD-51

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-50

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-50



CURVE DATA
PI STA. = 254+86.39
 Δ = 11° 48' 00" (RT)
D = 4° 09' 12"
T = 142.56
L = 284.11
R = 1,379.52
PC STA. = 253+43.83
PT STA. = 256+27.94

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO. LD-51
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		

MATCHLINE - SEE SHEET LD-51



NO IRRIGATION THIS SHEET

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-52

MATCHLINE - SEE SHEET LD-53

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-52



MATCHLINE - SEE SHEET LD-54

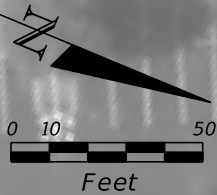
CURVE DATA

PI STA.	= 270+78.83
Δ	= 8° 42' 08" (LT)
D	= 1° 30' 25"
T	= 289.29
L	= 577.46
R	= 3,801.97
PC STA.	= 267+89.54
PT STA.	= 273+67.00

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO. LD-53
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.

MATCHLINE - SEE SHEET LD-53



R/W LINE (TYP.)

DESIGN
SPEED
45 MPH

272

273

PT STA. 273+67.00

27°x43' SD

END PROJECT
STA 273+67.00
MP 9.415

10'x6' CBC

18°x36' SD

MASON AVE

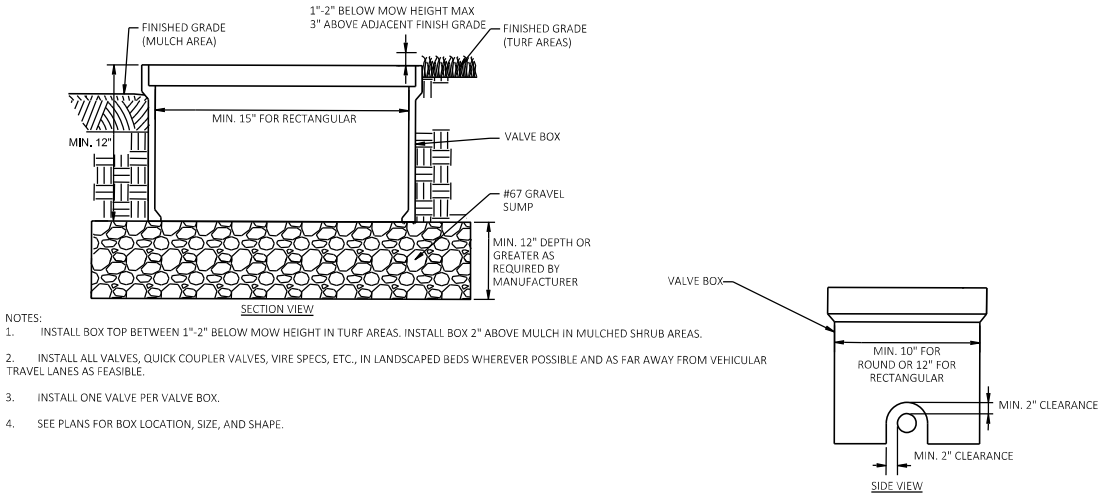
MASON AVE

CURVE DATA
PI STA. = 270+78.83
Δ = 8° 42' 08" (LT)
D = 1° 30' 25"
T = 289.29
L = 577.46
R = 3,801.97
PC STA. = 267+89.54
PT STA. = 273+67.00

NO IRRIGATION THIS SHEET

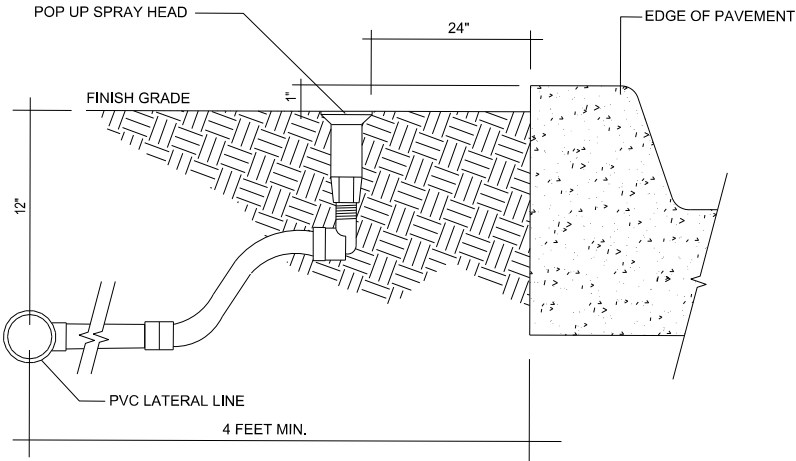
REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-54
					SR 5A	VOLUSIA	437855-1-58-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.001, F.A.C.



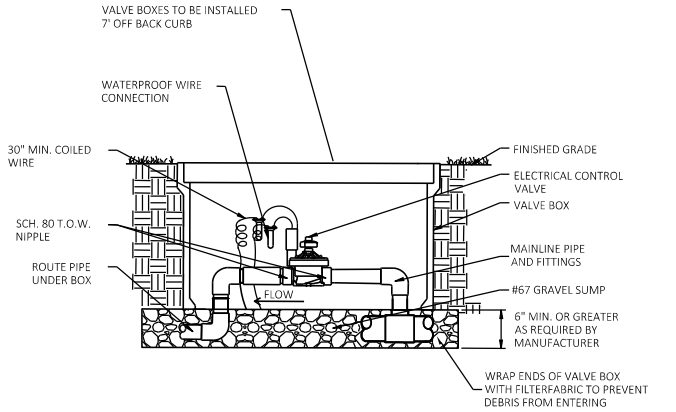
VALVE BOX DETAIL

SCALE: NTS



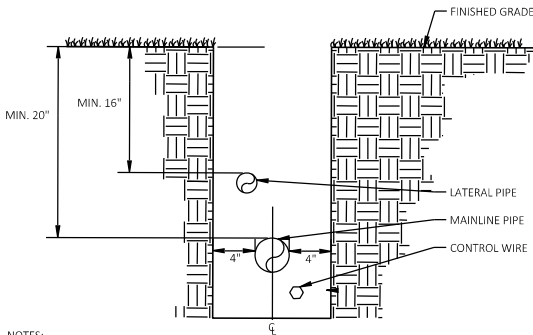
IRRIGATION HEAD INSTALLATION NEXT TO ROADWAY

SCALE: NTS



ELECTRONIC CONTROL VALVE

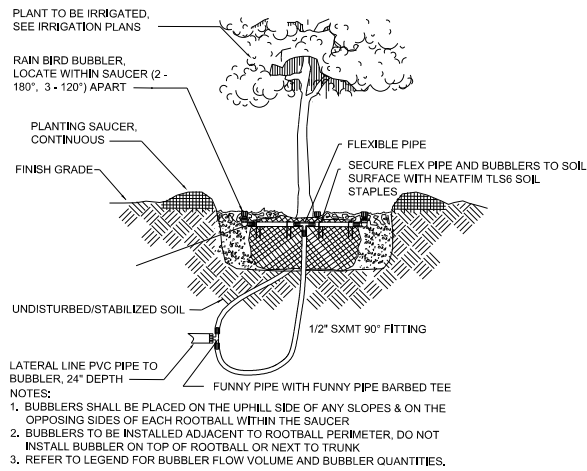
SCALE: NTS



- NOTES:
- ALL TRENCHING TO BE OUTSIDE OF EXISTING TREE DRIP LINE.
 - NO ROCKS, BOULDERS, OR SHAPR OBJECTS TO BE IN TRENCH BACKFILL.
 - ALL PIPE TO BE INSTALLED AS RECOMMENDED BY MANUFACTURER.
 - AT EACH CHANGE IN MAINLINE DIRECTION INSTALL A 30° LOOP OF EXTRA WIRE.
 - BUNDLE WIRE WITH ELECTRICAL TAPE EVERY 10'.

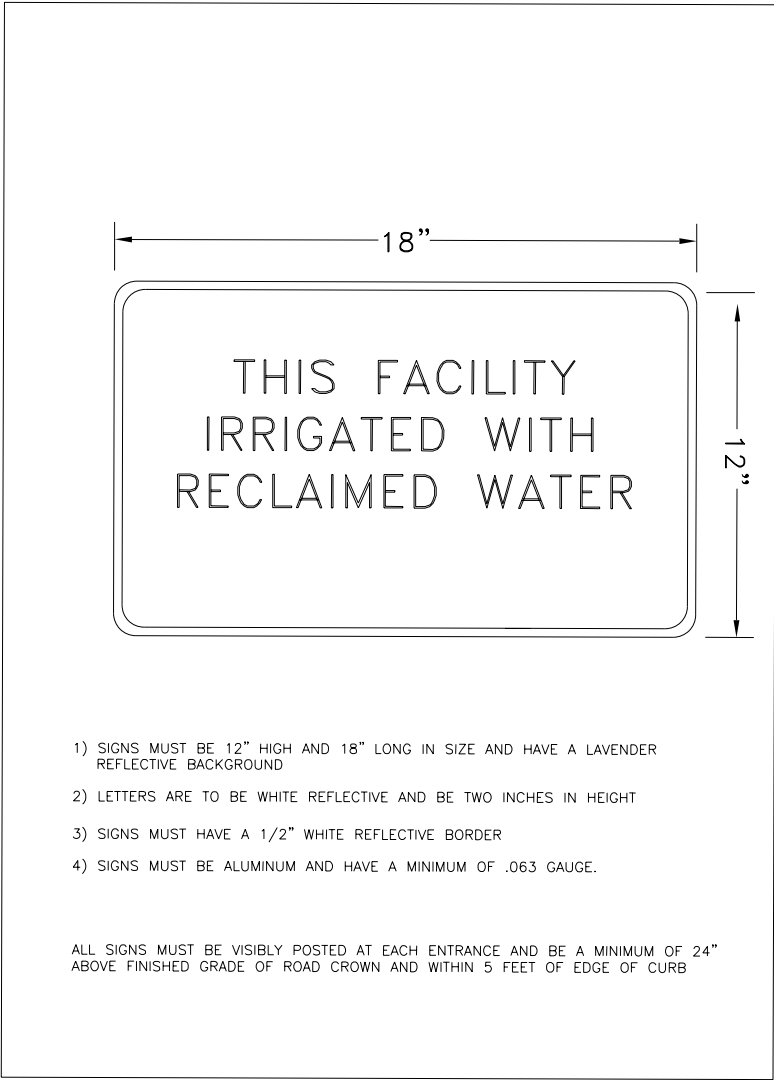
TRENCH, PIPE, AND WIRE DETAIL

SCALE: NTS



BUBBLER INSTALLATION

SCALE: NTS



SC-21

RECLAIMED WATER ADVISORY SIGN

SCALE: NTS

REVISIONS				GLENDON M. HERBERT, R.L.A. #LA0000324 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION EB9951	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION DETAILS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 5A	VOLUSIA	437855-1-58-01		LD-55