

CONTRACT PLAN COMPONENTS

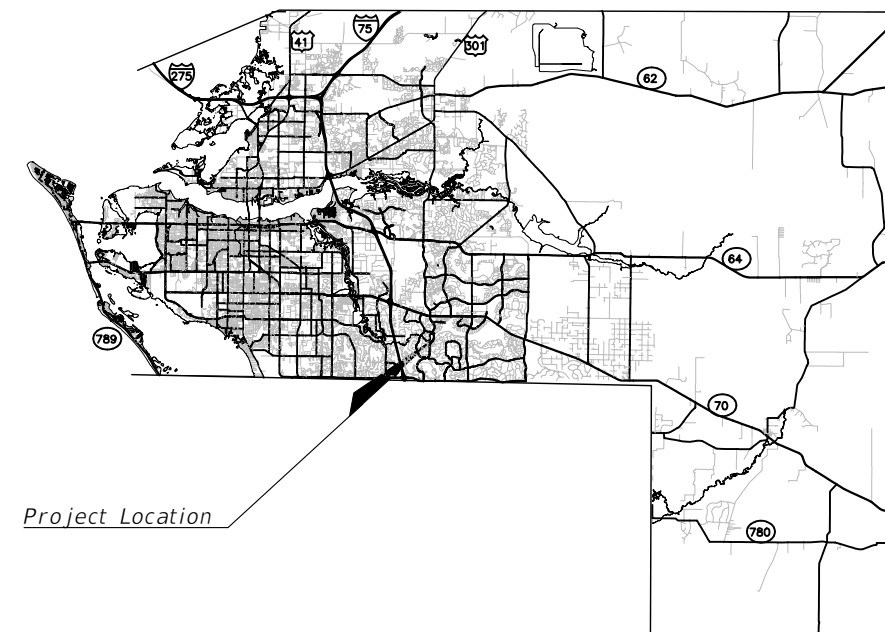
ROADWAY PLANS  
SIGNING & MARKING PLANS  
SIGNALIZATION PLANS

Sheet List Table

Sheet Number	Sheet Title
01	Key Sheet
02	Summary of Pay Items
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MANATEE COUNTY  
TRANSPORTATION ENGINEERING SECTION

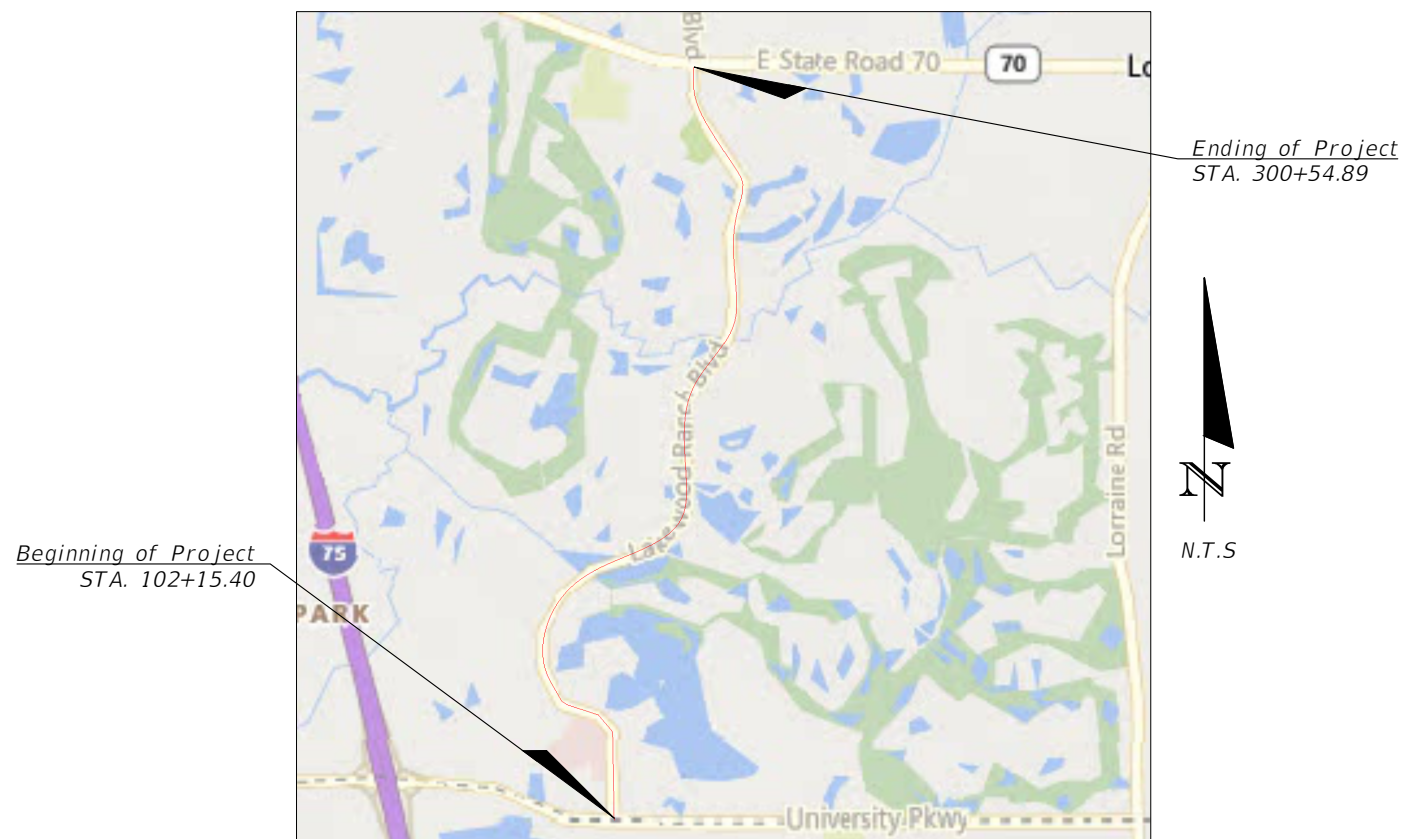
PROPOSED ROADWAY PLANS FOR  
LAKEWOOD RANCH BLVD REBASE  
FROM SR 70 TO UNIVERSITY PARKWAY BLVD  
LAKEWOOD RANCH, FLORIDA



Project Location

MANATEE COUNTY PROJECT No: 178-0019905  
APRIL 2024

75% PLANS



THIS ITEM HAS BEEN DIGITALLY  
SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE  
NOT CONSIDERED SIGNED AND SEALED  
AND THE SIGNATURE MUST BE VERIFIED  
ON ANY ELECTRONIC COPIES.

THE ABOVE NAMED PROFESSIONAL IS  
RESPONSIBLE FOR THE FOLLOWING SHEETS  
IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.



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

ROADWAY PLANS  
PROFESSIONAL OF RECORD: LORENZO DUARTE, P.E.  
FLORIDA P.E. # 79285

MANATEE COUNTY PUBLIC WORKS  
1022 26th AVENUE EAST  
BRADENTON, FL 34208

GOVERNING DESIGN STANDARDS:  
Florida Department of Transportation, fy 2024 Design  
Manual ebook (dseb) and Applicable Design Standards  
Revisions (dsrs) at the following website:  
<https://www.fdot.gov/roadway/fdm/default.shtm>

GOVERNING STANDARD SPECIFICATIONS:  
Florida Department of Transportation, 2023-24  
Standard Specifications for Road and Bridge  
Construction at the following website:  
<https://www.fdot.gov/design/standardplans/current/24.shtm>




PROJECT LENGTH IS BASED ON B/L OF CONSTRUCTION

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	19839.49	3.76
EXCEPTIONS	0.00	0.00
GROSS LENGTH OF PROJECT	19839.49	3.76

FISCAL YEAR	SHEET NO.
24	01

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LINE NUMBER	FDOT ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	U/M
<b>MOBILIZATION &amp; MAINTENANCE OF TRAFFIC</b>				
1.	101-1	MOBILIZATION	1.00	LS
2.	102-1	MAINTENANCE OF TRAFFIC	1.00	LS
<b>SUBTOTAL MOBILIZATION &amp; MAINTENANCE OF TRAFFIC</b>				
<b>ROAD WORK</b>				
3.	104-18	INLET PROTECTION SYSTEM	80.00	EA
4.	MC-1	COLD-IN-PLACE RECYCLE 8" DEPTH	141,463.00	SY
5.	327-70-1	MILLING EXIST ASPHALT PAVEMENT, 1" AVG DEPTH	7,383.00	SY
6.	334-1-53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, SP-12.5, PG76-22, 2"	15,561.00	TN
7.	337-7-82	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-9.5, PG76-22, 1"	8,187.00	TN
8.	520-1-10	CONCRETE CURB & GUTTER, TYPE F (INCLUDING CONCRETE FLUMES)		LF
9.	522-1	CONCRETE SIDEWALK, 4" THICK (INCLUDING HANDICAP RAMPS)		SY
10.	522-2	CONCRETE DRIVEWAYS, 6" THICK		SY
11.	527-2	DETECTABLE WARNINGS		SY
<b>SUBTOTAL ROAD WORK</b>				

<b>REVISIONS</b>		 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	LORENZO DUARTE, P.E. FL. P.E. # 79285	PROJECT #	178-0019905	SURVEYED	N/A	__/__/__	<b>LAKWOOD RANCH BLVD REBASE          FROM SR 70 TO UNIVERSITY PARKWAY BLVD          SUMMARY OF PAY ITEMS</b>	SHEET NO.
DATE	DESCRIPTION			SURVEY #	N/A	DESIGNED	----	__/__/__		02
		SEC./TWN./RGE	00/00/00	DRAWN	RTM	__/__/__				
		SCALE	AS SHOWN	CHECKED	----	__/__/__				

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**RESTORATION**

- 64. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
- 65. ALL DISTURBED GRASSED AREAS SHALL BE SODDED. THE TYPE OF SOD USED TO REPLACE OWNER MAINTAINED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER. ALL EXISTING SHRUBS, TREES, PLANTINGS AND OTHER VEGETATION, OUTSIDE OF RIGHT-OF-WAY DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH EQUIVALENT MATERIAL BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 66. CONCRETE DRIVEWAYS OR SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO THE CURRENT EDITIONS OF THE F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN, SECTION 522-001, AND SECTION 522-003 OF THE F.D.O.T. DESIGN STANDARDS LATEST REVISION.
- 67. WHENEVER A PERMANENT ROADWAY SURFACE IS NOT PLACED IMMEDIATELY AFTER BACKFILLING AND COMPACTION OF THE NEWLY INSTALLED PIPELINE IN AREAS WHERE TRAFFIC MUST PASS, THE CONTRACTOR SHALL INSTALL A TEMPORARY SURFACE CONSISTING OF NINE INCHES OF COMPACTED LIME ROCK BASE AND A COAT OF ASPHALT EMULSION. PERMANENT ROADWAY REPAIR SHALL BE PERFORMED A MAXIMUM OF TWENTY-ONE CALENDAR DAYS AFTER THE INITIAL OPEN CUTTING.
- 68. RESTORATION OF CURBS, DRIVEWAYS, SIDEWALKS, AND PLACEMENT OF SOD SHALL BE COMPLETED WITHIN FORTY-FIVE CALENDAR DAYS OF INITIAL DISTURBANCE, OR TWENTY-ONE CALENDAR DAYS OF SUBSTANTIAL COMPLETION, WHICHEVER OCCURS FIRST.

**CONSTRUCTION**

- 69. THE EXHAUST SYSTEM OF ALL GASOLINE AND DIESEL ENGINES SHALL BE EQUIPPED WITH MUFFLERS THAT MEET THE EQUIPMENT MANUFACTURER'S REQUIREMENTS FOR NOISE SUPPRESSION. THE CONTRACTOR SHALL INSTALL NOISE ABATEMENT BAFELS POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES, AS APPROVED BY THE ENGINEER.
- 70. CONTRACTOR IS RESPONSIBLE TO SECURE AREA FOR STAGING AND STORAGE OF ALL CONSTRUCTION EQUIPMENT AND MATERIALS
- 71. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEEPED DAILY AS PART OF DAILY CLEAN UP.
- 72. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
- 73. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
- 74. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA, UNLESS OTHERWISE NOTED ON THE PLANS.
- 75. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM. THE CONTRACTOR SHALL SUBMIT DEWATERING PLAN TO DISTRICT FOR APPROVAL PRIOR TO CONSTRUCTION.
- 76. ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONTRACT DOCUMENT AND SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS AND PROFILES.
- 77. ALL PIPE LENGTHS ARE PLUS OR MINUS AND MAY BE ADJUSTED IN THE FIELD AS REQUIRED. PIPE MEASUREMENTS AND STATION OFFSETS ARE TO CENTER OF STRUCTURES OR FITTINGS. REFER TO DETAIL SHEET FOR ALL REFERENCE POINTS.
- 78. ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO INCH DIAMETER.
- 79. ALL PENETRATION OF EXISTING STRUCTURES SHALL BE BY THE MECHANICAL ROTARY CORE BORING METHOD.
- 80. ALL CONCRETE AND REBAR PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY.
- 81. CONTRACTOR IS RESPONSIBLE FOR ALL UNSUITABLE MATERIAL REMOVAL WITHIN PROJECT LIMITS, EXCAVATION, EMBANKMENT, INCLUDING UTILIZATION, AND UNSUITABLE MATERIAL REMOVAL SHALL BE IN ACCORDANCE WITH FDOT DESIGN STANDARDS, LATEST VERSION.
- 82. WHERE EXCAVATION IS REQUIRED FOR CONSTRUCTION OF SIDEWALK, ALL STUMPS, ROOTS, ETC. SHALL BE REMOVED COMPLETELY FROM THE SIDEWALK AREA. ALL STUMPS WITHIN THE PROJECT LIMITS SHALL BE REMOVED COMPLETELY AND REPLACED WITH COMPACTED BACKFILL BEFORE THE AREA IS FILLED. TREE ROOTS IN AREA OF PROPOSED SIDEWALK, RAMP, OR DRIVEWAY REPLACEMENT SHALL BE GROUND OUT TO A DEPTH OF 6" BELOW BOTTOM OF NEW SIDEWALK OR DRIVEWAY. ALL PRUNED ROOT DEBRIS SHALL BE REMOVED FROM THE SUB-BASE MATERIAL PRIOR TO POURING CONCRETE, ASPHALT, OR APPLICATION OF OTHER SPECIFIED MATERIALS. THIS WORK SHALL BE INCLUDED IN AND PAID FOR UNDER THE PAY ITEM FOR CLEARING AND GRUBBING.
- 83. ALL STUMPS, ROOTS, AND OTHER DEBRIS PROJECTING THROUGH OR APPEARING ON THE SURFACE OF THE GROUND SHALL BE REMOVED TO A DEPTH OF 1-FOOT BELOW THE COMPLETED SURFACE. THIS WORK SHALL BE INCLUDED IN AND PAID FOR UNDER THE PAY ITEM FOR CLEARING AND GRUBBING.
- 84. ALL MATERIALS NOT CLAIMED BY THE COUNTY SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY THE CONTRACTOR. THIS WORK SHALL BE INCLUDED IN AND PAID UNDER THE PAY ITEM CLEARING AND GRUBBING.
- 85. THE CONTRACTOR SHALL PROVIDE ALL SHEETING, SHORING, AND BRACING REQUIRED TO PROTECT ADJACENT STRUCTURES OR TO MINIMIZE TRENCH WIDTH. WHERE A SEPARATE PAY ITEM IS NOT PROVIDED, THE COST OF ALL SHEETING, SHORING, AND BRACING REQUIRED SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE ITEM OF WORK FOR WHICH SHEETING, SHORING, AND BRACING IS REQUIRED.
- 86. THE CONTRACTOR SHALL DISTURB NO MORE GROUND THAN WHAT IS NECESSARY FOR CONSTRUCTION. NO OPEN EXCAVATED TRENCH, OR OTHER UNSAFE CONDITION WILL BE LEFT OVERNIGHT. ALL WORK SITES WILL BE COMPLETELY RESTORED WITHIN SEVEN (7) CALENDAR DAYS OF THE CONCRETE POUR FOR SIDEWALK. THE INTENT OF THIS PROVISION IS TO "SAFE-UP" THE PROJECT SITE AS WORK PROGRESSES, AND SHALL INCLUDE REMOVING FORMS, FILLING HOLES, GRADING, AND REMOVAL OF DEBRIS.
- 87. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED IN THE PLANS, OR AS DIRECTED BY THE ENGINEER.
- 88. ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED OR RELOCATED DURING CONSTRUCTION SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION AT NO ADDITIONAL COST TO THE COUNTY.
- 89. ALL EXISTING SWALES NOT DESIGNATED FOR RECONSTRUCTION SHALL BE REGRADED TO PROMOTE POSITIVE DRAINAGE AND MATCH PROPOSED CENTERLINE SWALE ELEVATION AND ALIGNMENT.
- 90. ALL STORM DRAINS AND STRUCTURES TO REMAIN SHALL BE CLEANED OF DEBRIS, DIRT, VEGETATION AND OTHER MATERIAL. STORM SEWER INLETS SHALL BE MODIFIED (RAISED/LOWERED) TO MATCH PROPOSED FINISHED GRADE.
- 91. ALL EXISTING FENCES DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AND REINSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST. (EXISTING FENCES WITHIN R/W TAKING LIMITS SHALL BE RECONSTRUCTED TO THE NEW R/W LINE AND ARE TO BE REIMBURSED UNDER THE MISCELLANEOUS BID ITEM).
- 92. ALL EXISTING TREES LOCATED WITHIN CONSTRUCTION LIMITS OR CLEAR ZONE SHALL REMAIN / BE REMOVED AS NOTED.
- 93. THE EXISTING STORM DRAINAGE STRUCTURES SHALL REMAIN / BE REMOVED AS NOTED.
- 94. ALL EXISTING BUILDINGS SHALL REMAIN / BE REMOVED UNLESS OTHERWISE NOTED.
- 95. REMOVE AND REPLACE BASE AND SUB-BASE ACCORDING TO FDOT STANDARDS.
- 96. CONTRACTOR IS SOLELY RESPONSIBLE FOR OBTAINING STAGING AND STORAGE AREAS.
- 97. CONTRACTOR TO SUPPLY STEEL MANHOLE AND VALVE ADJUSTMENT MATERIALS.
- 98. WHERE NECESSARY, CONTRACTOR TO PERFORM INCIDENTAL TREE BRANCH TRIMMING IF CLEARANCE IS NEEDED FOR EQUIPMENT.
- 99. CONTRACTOR TO PERFORM ROOT REMOVAL IF NEEDED FOR SIDEWALK SLAB REPLACEMENTS.

**REVISIONS**

DATE	DESCRIPTION



PUBLIC WORKS DEPARTMENT  
ENGINEERING SERVICES  
1022 26th Avenue East, Bradenton, FL 34208

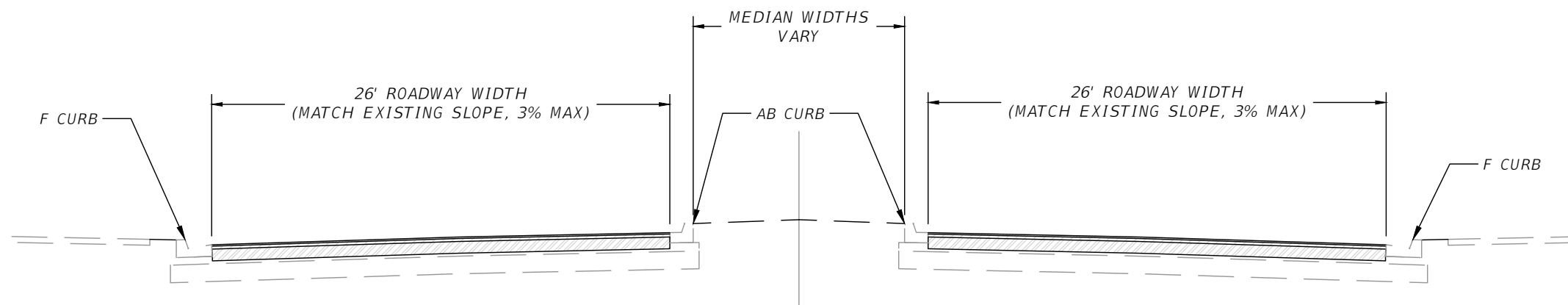
LORENZO DUARTE, P.E. FL. P.E. # 79285

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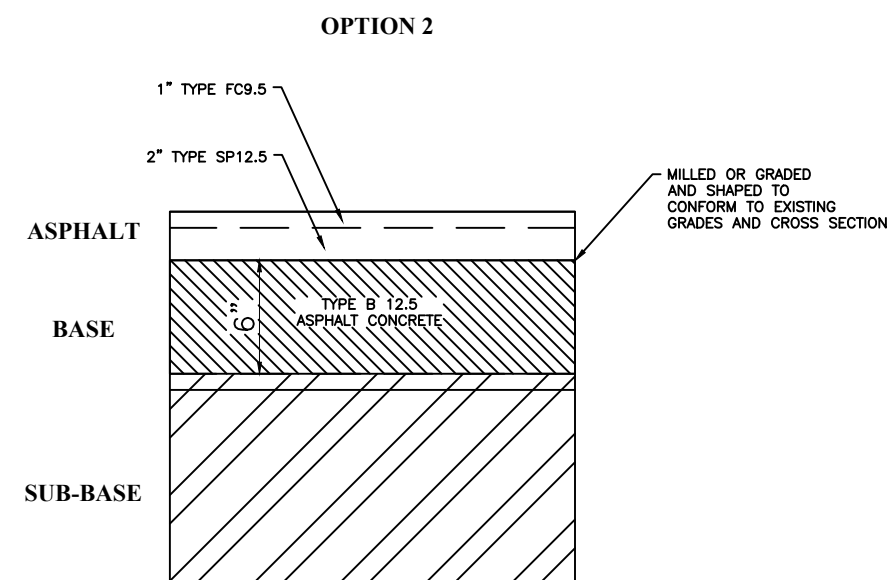
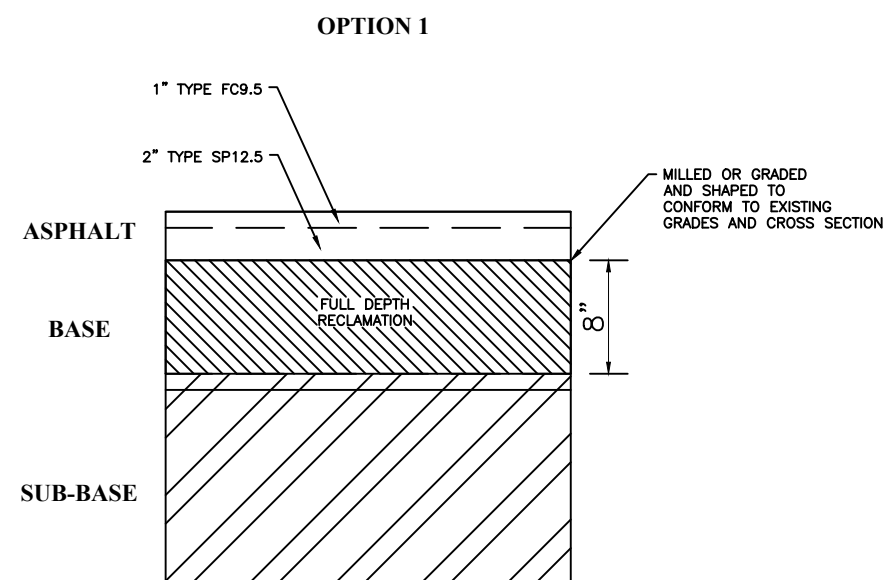
**LAKWOOD RANCH BLVD REBASE  
FROM SR 70 TO UNIVERSITY PARKWAY BLVD  
NOTES 2**

SHEET NO.

04



TYPICAL SECTION  
LAKEWOOD RANCH BLVD  
FULL DEPTH REBASE



REVISIONS	
DATE	DESCRIPTION



PUBLIC WORKS DEPARTMENT  
ENGINEERING SERVICES  
1022 26th Avenue East, Bradenton, FL 34208

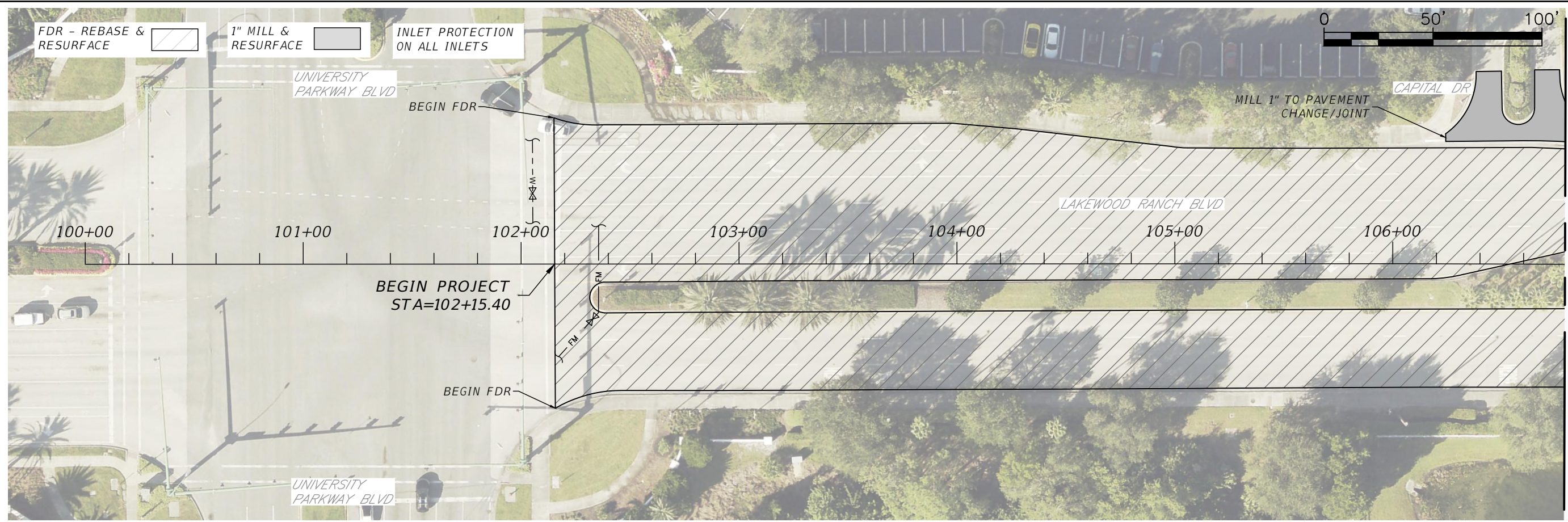
LORENZO DUARTE, P.E. FL. P.E. # 79285

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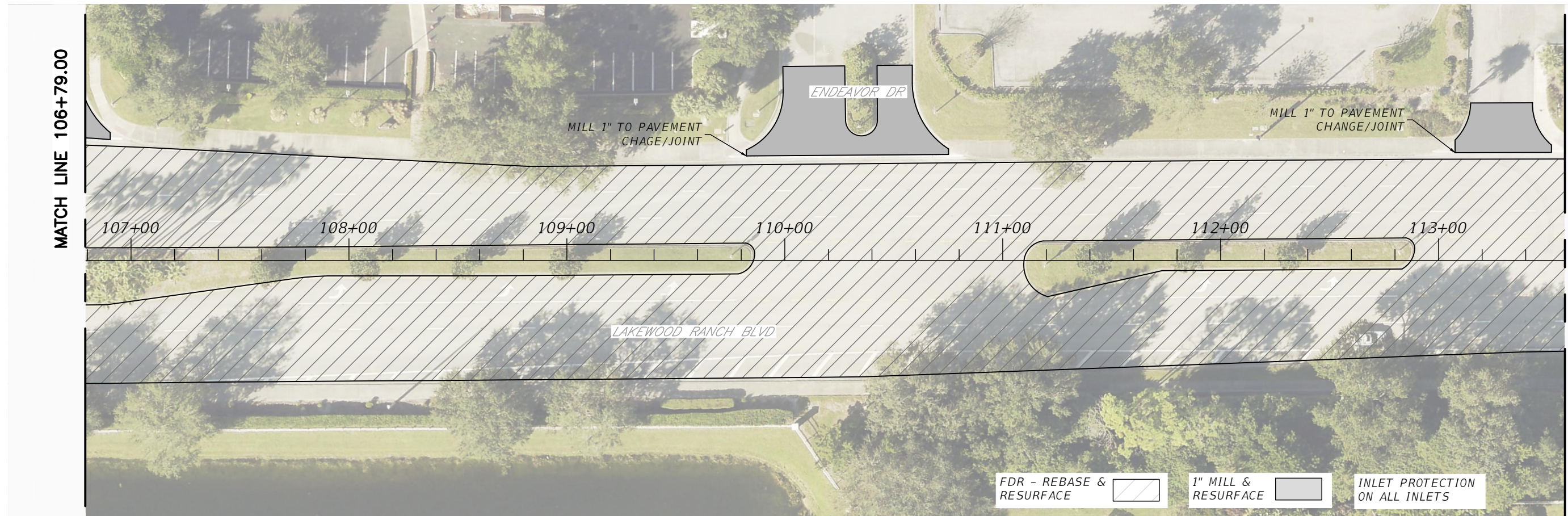
LAKEWOOD RANCH BLVD REBASE  
FROM SR 70 TO UNIVERSITY PARKWAY BLVD  
TYPICAL SECTIONS - TYPICAL SECTIONS

SHEET  
NO.  
05





MATCH LINE 106+79.00



MATCH LINE 106+79.00

MATCH LINE 113+58.00

FDR - REBASE & RESURFACE  
 1" MILL & RESURFACE  
 INLET PROTECTION ON ALL INLETS

REVISIONS	
DATE	DESCRIPTION

PUBLIC WORKS DEPARTMENT  
 ENGINEERING SERVICES  
 1022 26th Avenue East, Bradenton, FL 34208

LORENZO DUARTE, P.E. FL. P.E. # 79285

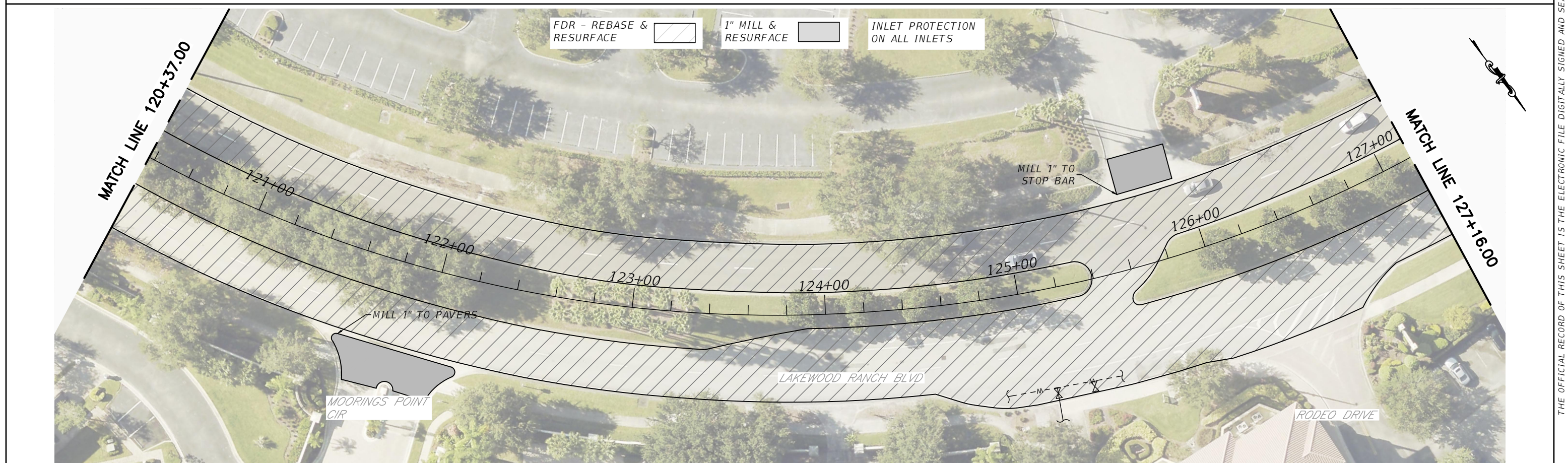
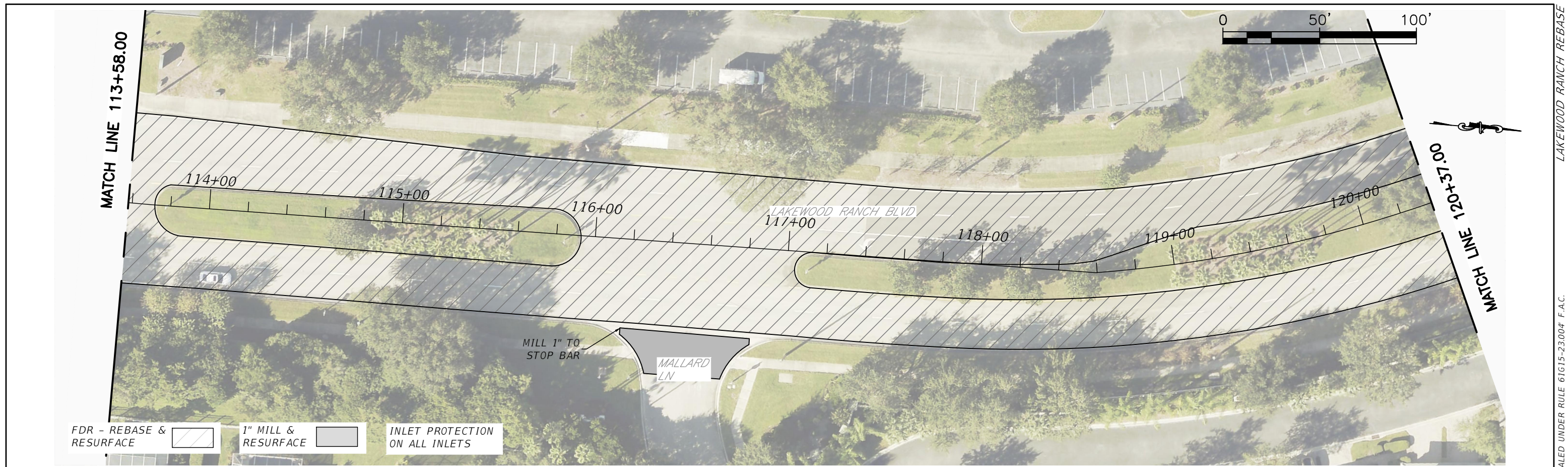
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LAKWOOD RANCH BLVD REBASE  
 FROM SR 70 TO UNIVERSITY PARKWAY BLVD  
 PP STA. 100+00-113+58


SHEET NO.  
 06

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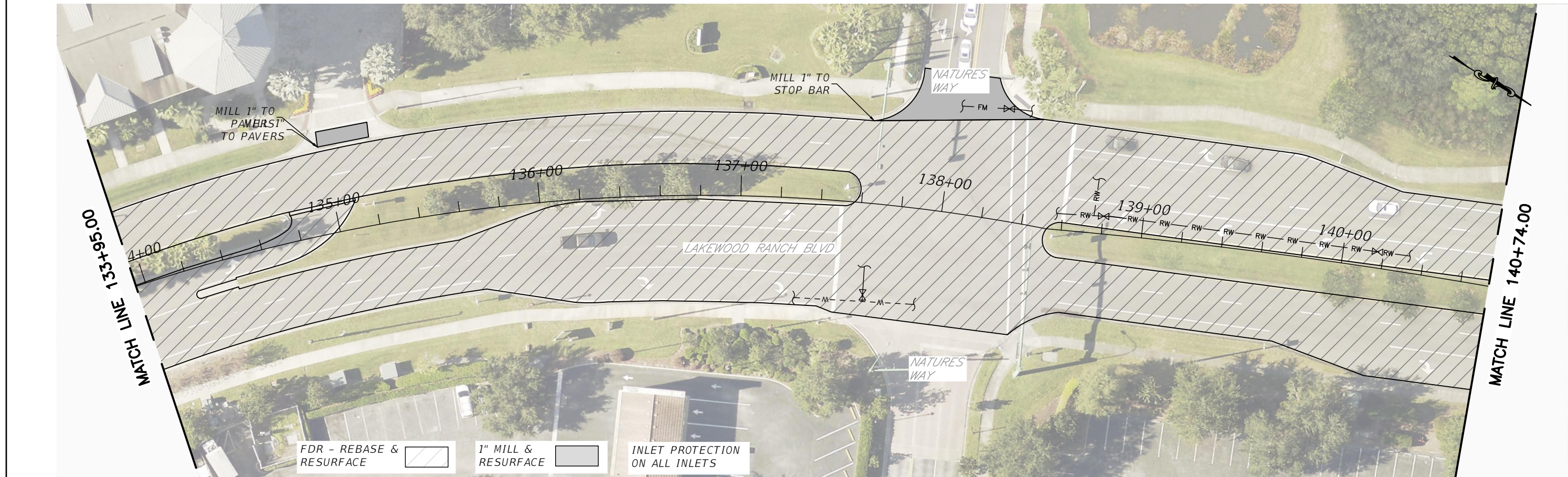
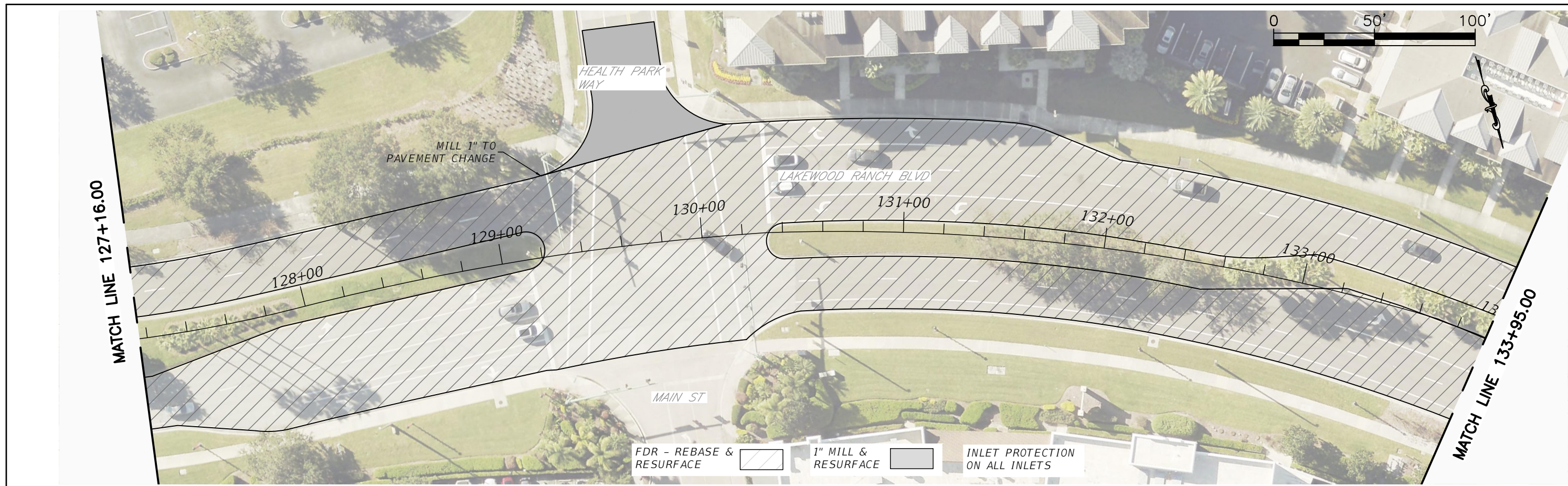
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**LAKWOOD RANCH BLVD REBASE  
FROM SR 70 TO UNIVERSITY PARKWAY BLVD  
PP STA. 113+58-127+16**


SHEET NO.  
**07**

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1022 26th Avenue East, Bradenton, FL 34208

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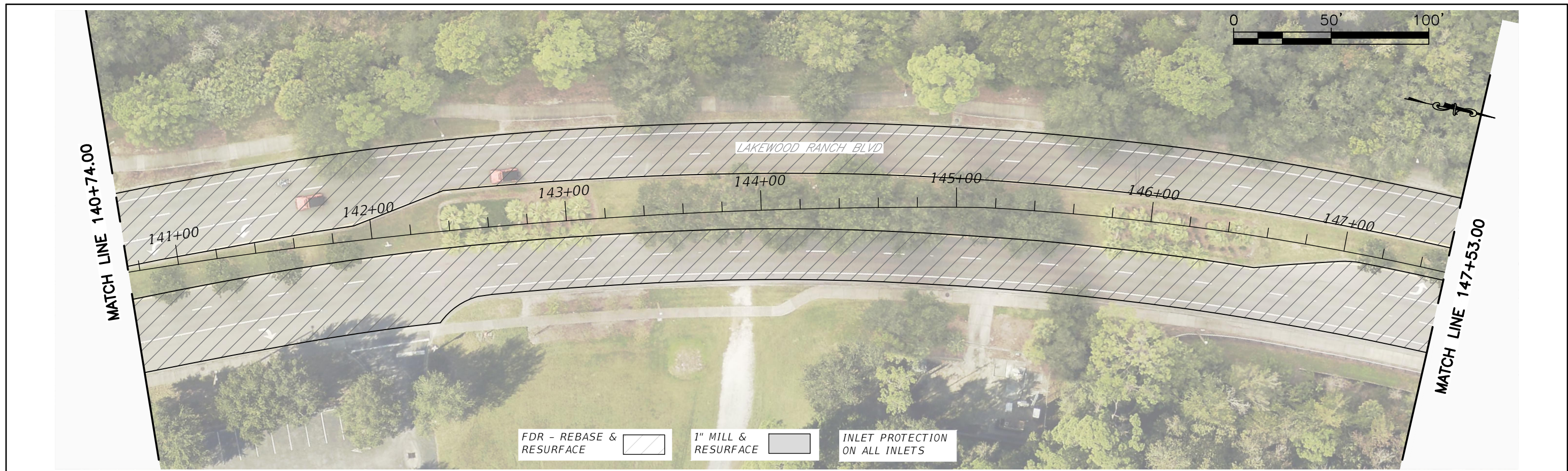
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**LAKWOOD RANCH BLVD REBASE  
FROM SR 70 TO UNIVERSITY PARKWAY BLVD  
PP STA. 127+16-140+74**

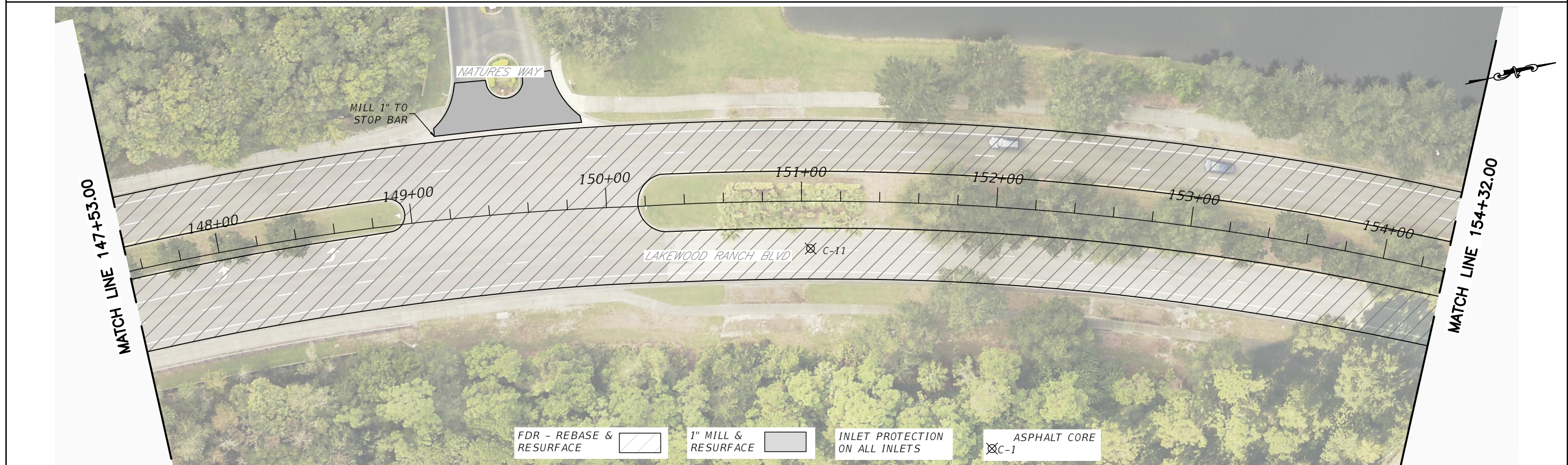
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FDR - REBASE & RESURFACE  1" MILL & RESURFACE  INLET PROTECTION ON ALL INLETS



FDR - REBASE & RESURFACE  1" MILL & RESURFACE  INLET PROTECTION ON ALL INLETS  ASPHALT CORE C-1

REVISIONS	
DATE	DESCRIPTION



PUBLIC WORKS DEPARTMENT  
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1022 26th Avenue East, Bradenton, FL 34208

LORENZO DUARTE, P.E. FL. P.E. # 79285

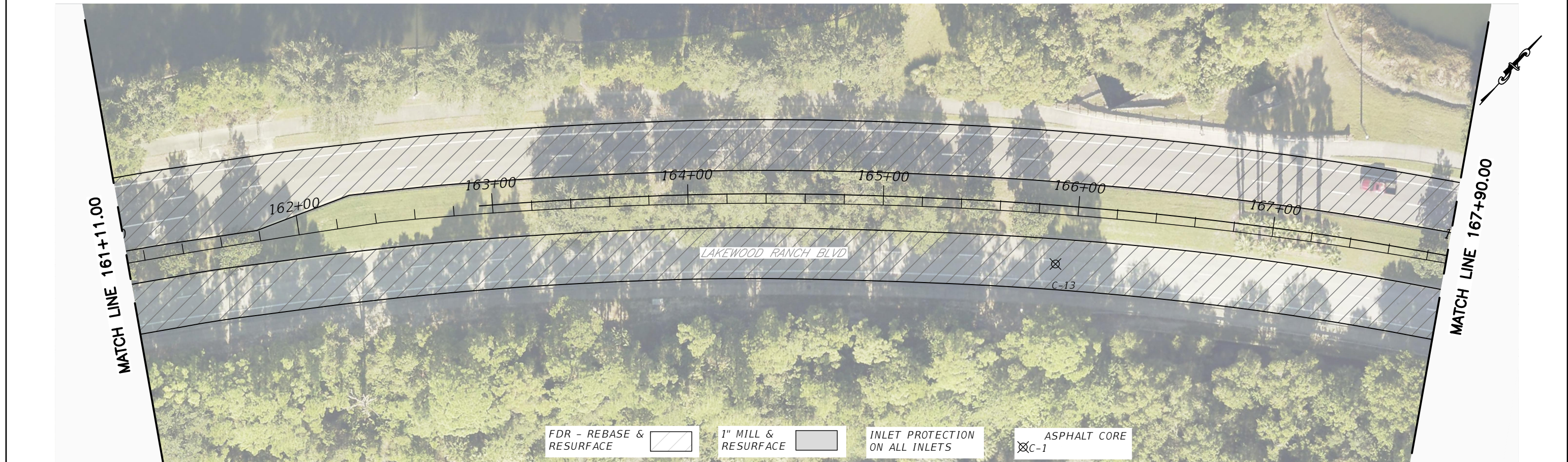
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LAKWOOD RANCH BLVD REBASE  
FROM SR 70 TO UNIVERSITY PARKWAY BLVD  
PP STA. 140+74-154+32


SHEET NO.  
09

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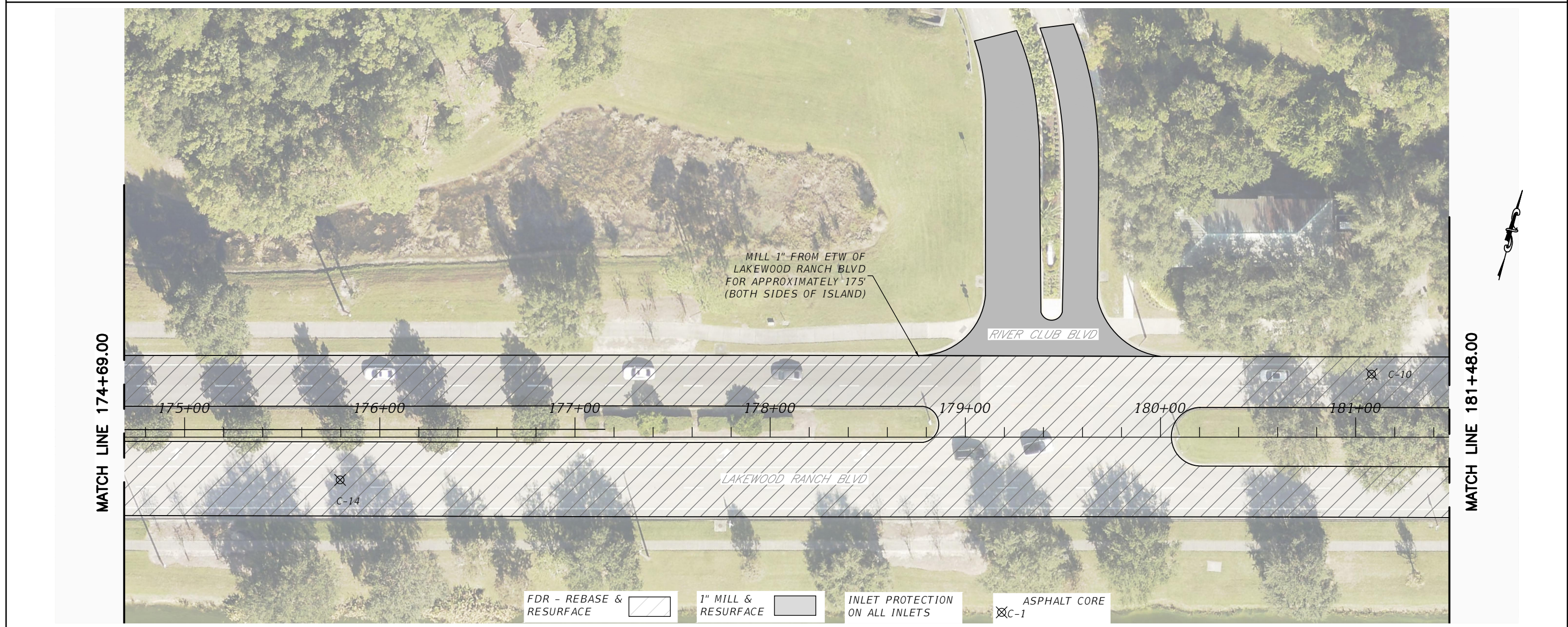
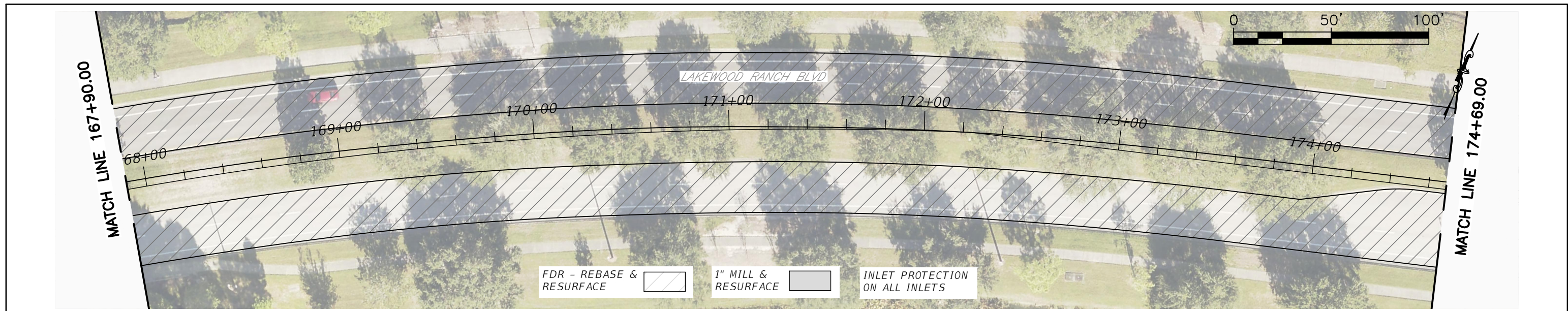
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LAKWOOD RANCH BLVD REBASE  
FROM SR 70 TO UNIVERSITY PARKWAY BLVD  
PP STA. 154+32-167+90

SHEET NO.  
10

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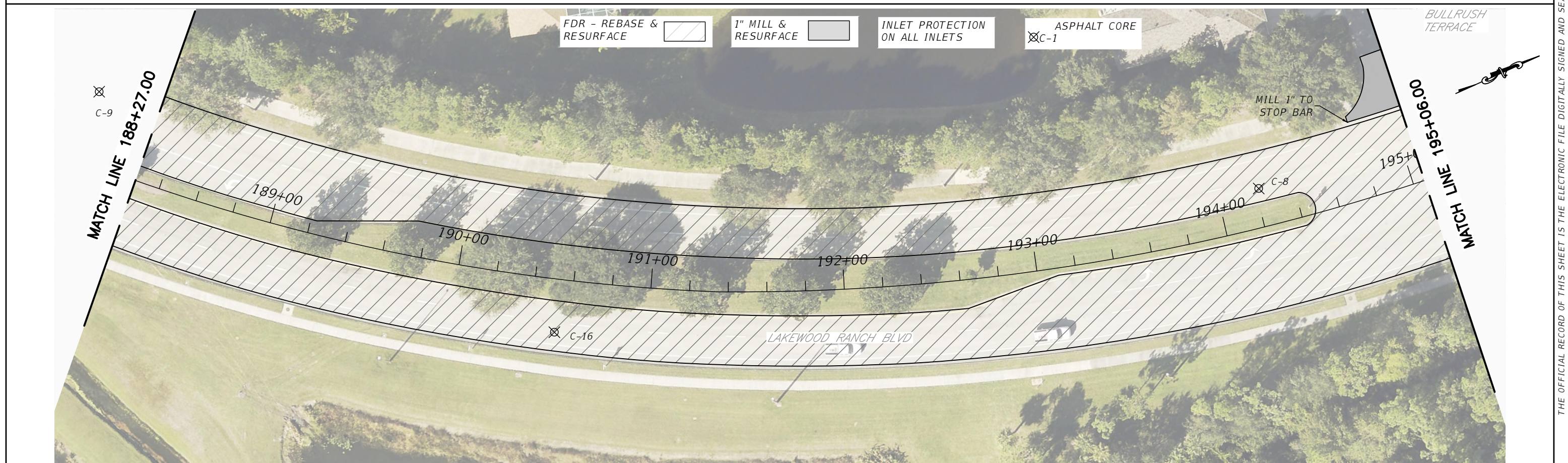
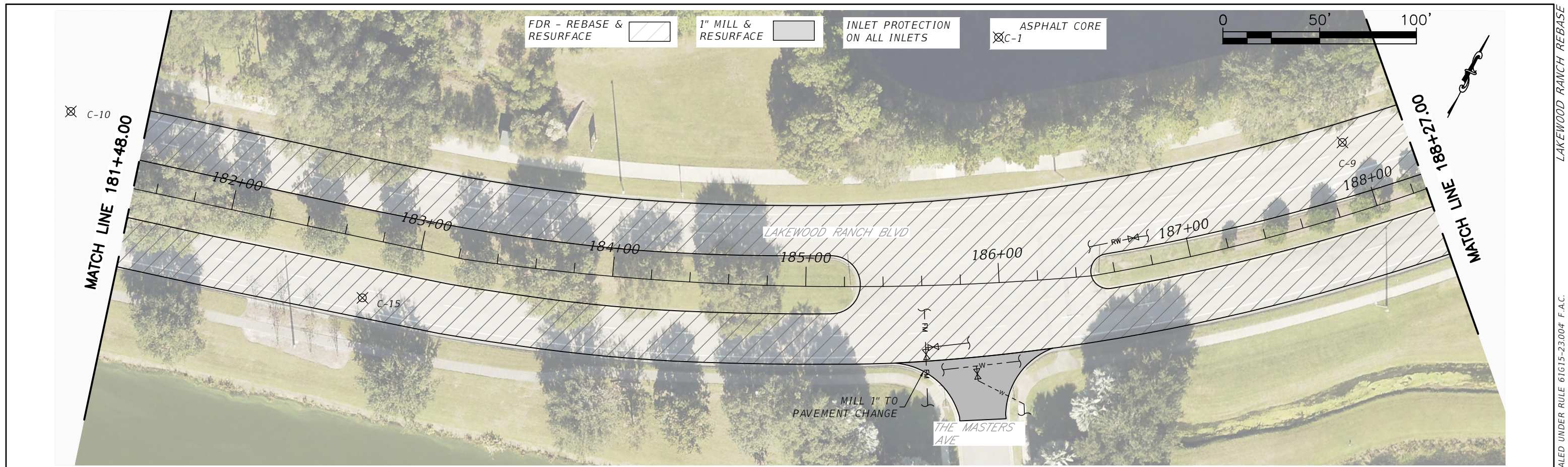
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**LAKWOOD RANCH BLVD REBASE  
FROM SR 70 TO UNIVERSITY PARKWAY BLVD  
PP STA. 167+90-181+48**


SHEET NO.  
11

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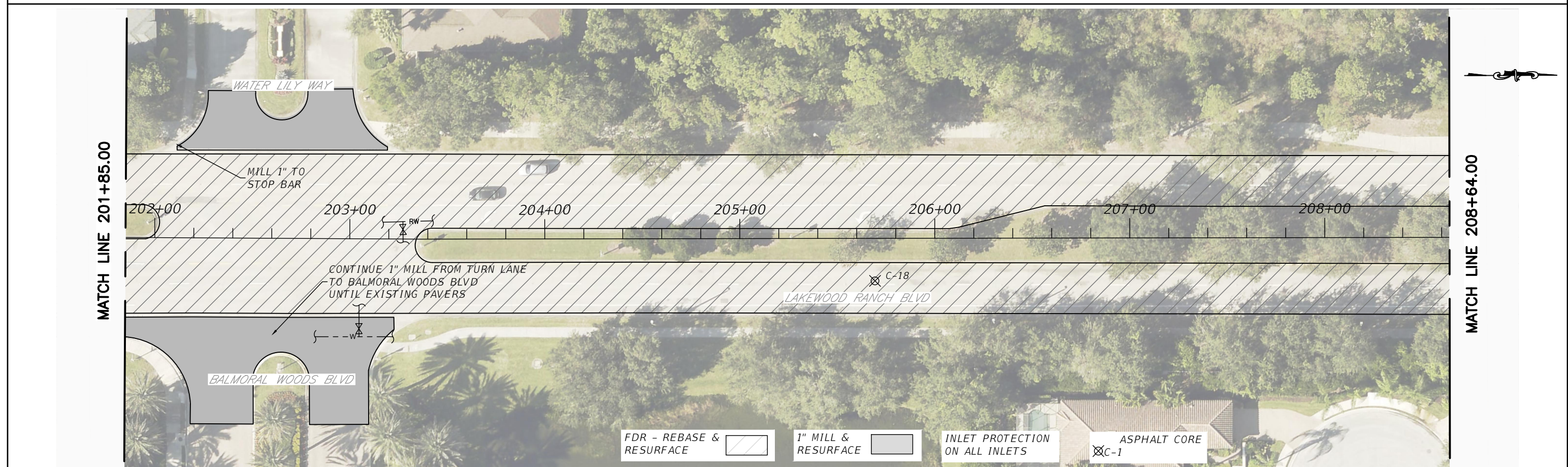
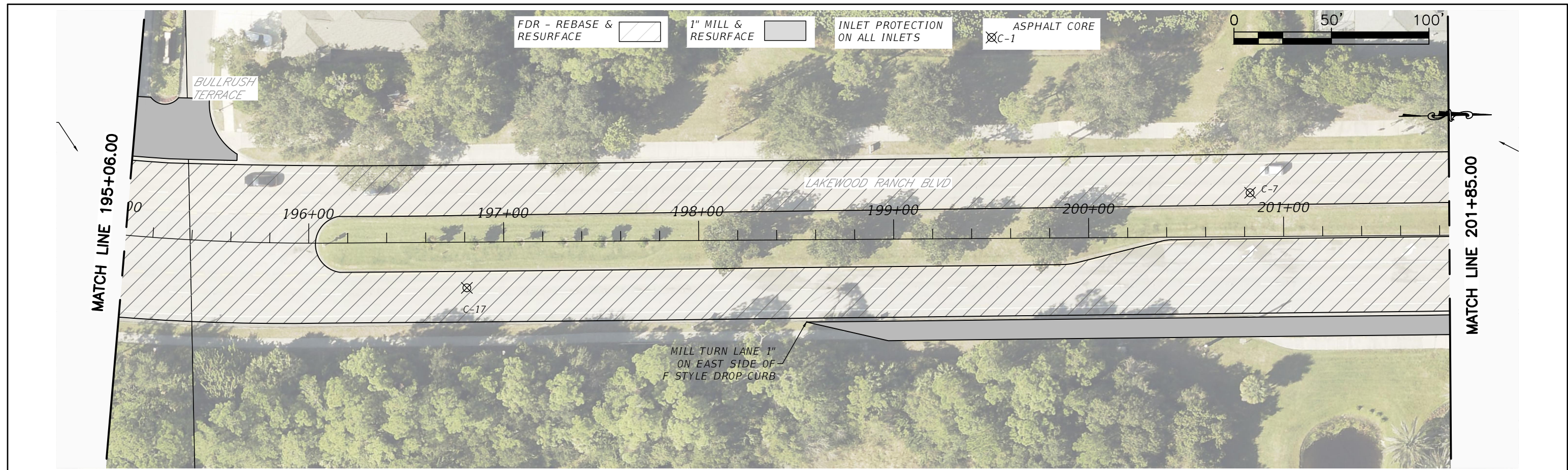
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**LAKWOOD RANCH BLVD REBASE  
FROM SR 70 TO UNIVERSITY PARKWAY BLVD  
PP STA. 181+48-195+06**


SHEET NO.  
12

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REVISIONS	
DATE	DESCRIPTION


**Manatee County**  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING SERVICES  
 1022 26th Avenue East, Bradenton, FL 34208

LORENZO DUARTE, P.E. FL. P.E. # 79285

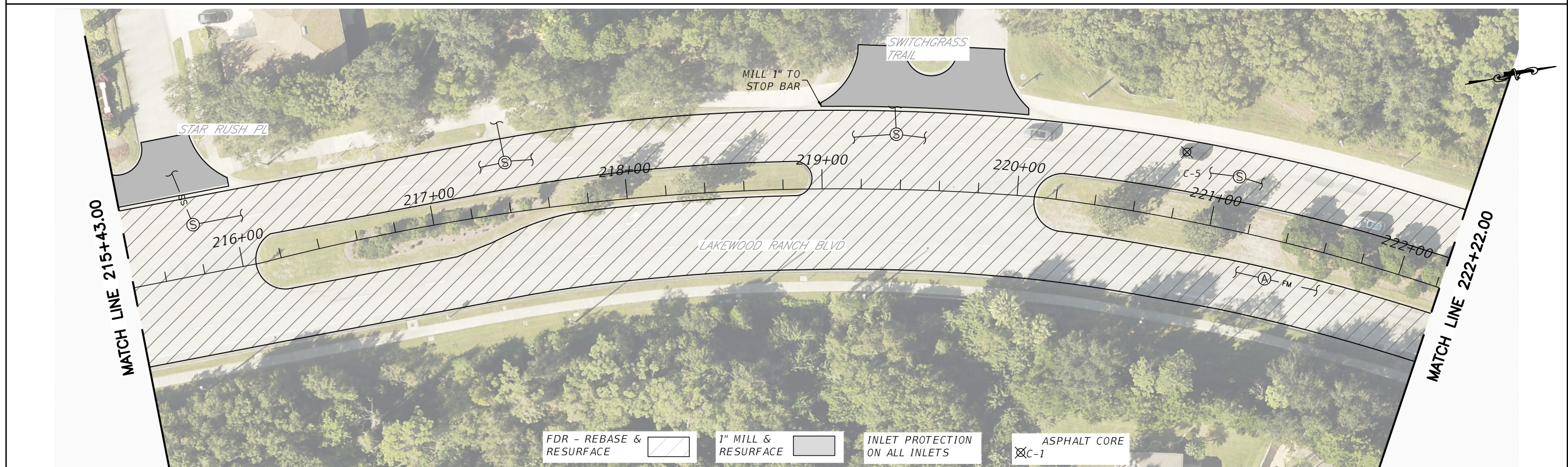
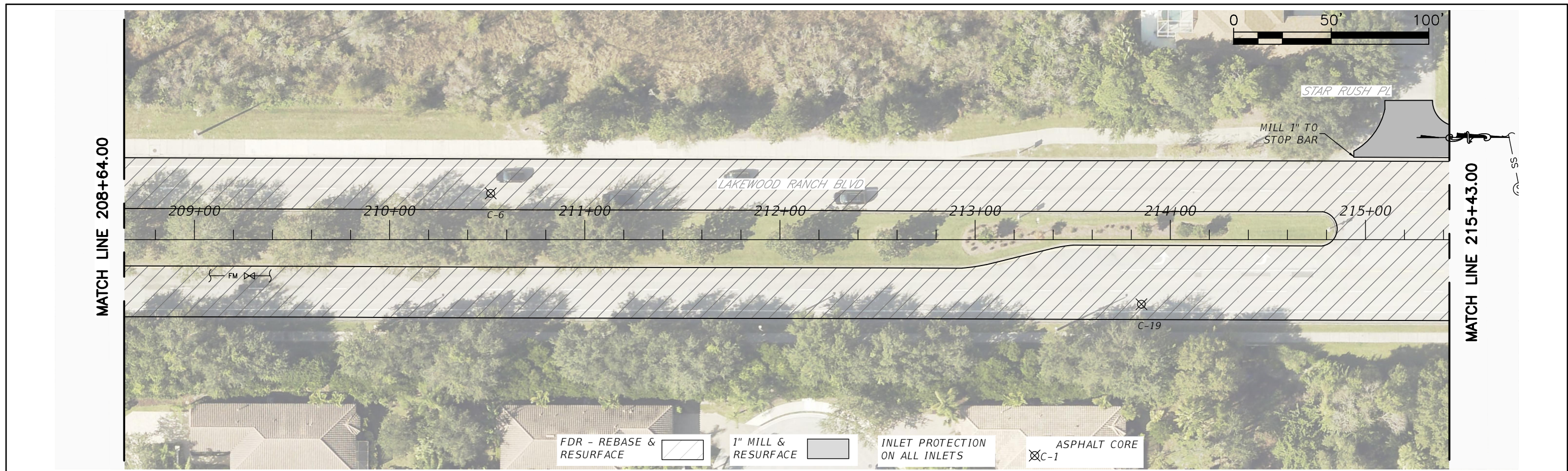
PROJECT #	178-0019905	SURVEYED	N/A	___/___/___
SURVEY #	N/A	DESIGNED	----	___/___/___
SEC./TWN./RGE	00/00/00	DRAWN	RTM	___/___/___
SCALE	AS SHOWN	CHECKED	----	___/___/___

**LAKWOOD RANCH BLVD REBASE**  
**FROM SR 70 TO UNIVERSITY PARKWAY BLVD**  
**PP STA. 195+06-208+64**


SHEET NO.  
 13

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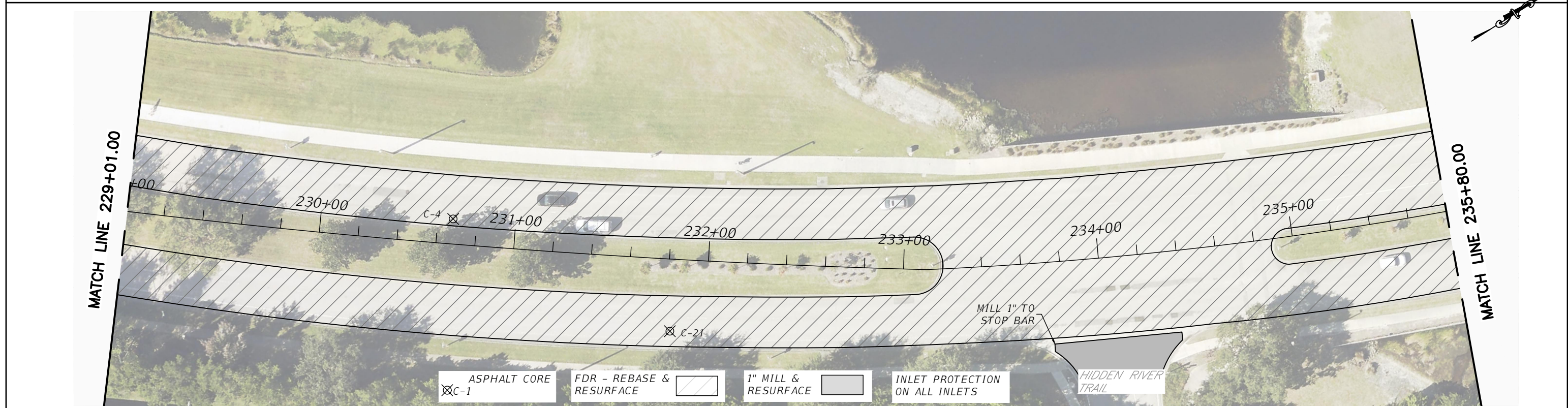
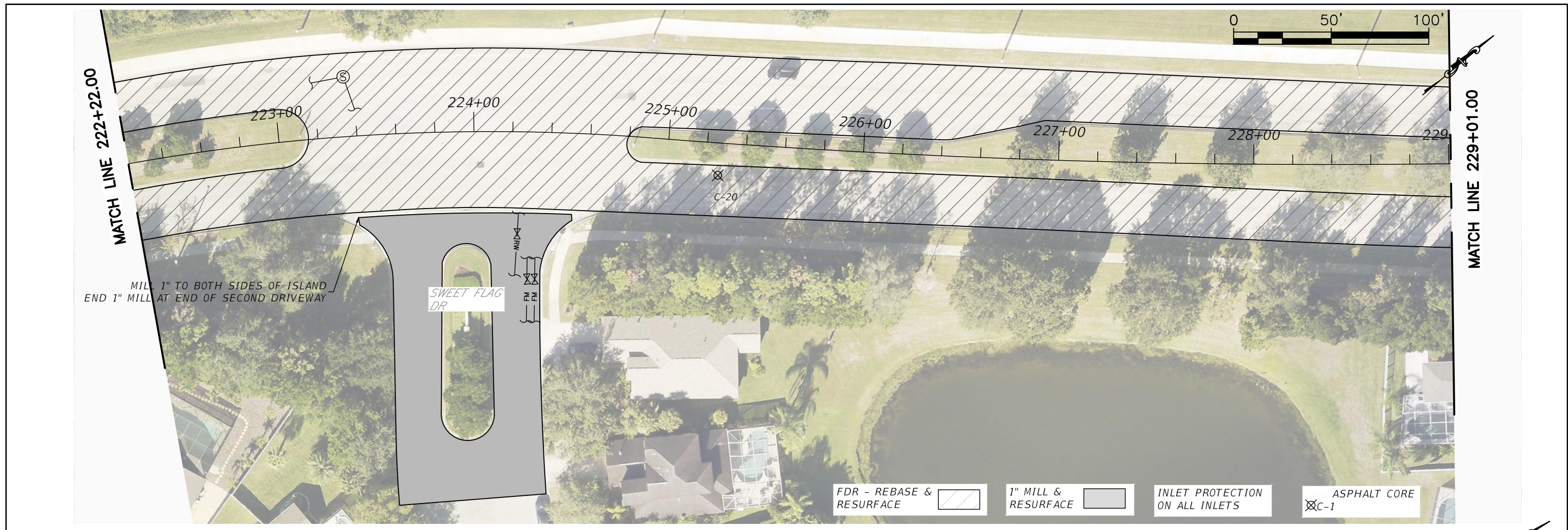
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SURVEY #	N/A	DESIGNED	----	___/___/___
SEC./TWN./RGE	00/00/00	DRAWN	RTM	___/___/___
SCALE	AS SHOWN	CHECKED	----	___/___/___

**LAKWOOD RANCH BLVD REBASE  
FROM SR 70 TO UNIVERSITY PARKWAY BLVD  
PP STA. 208+64-222+22**

SHEET NO.  
**14**

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LORENZO DUARTE, P.E. FL. P.E. # 79285

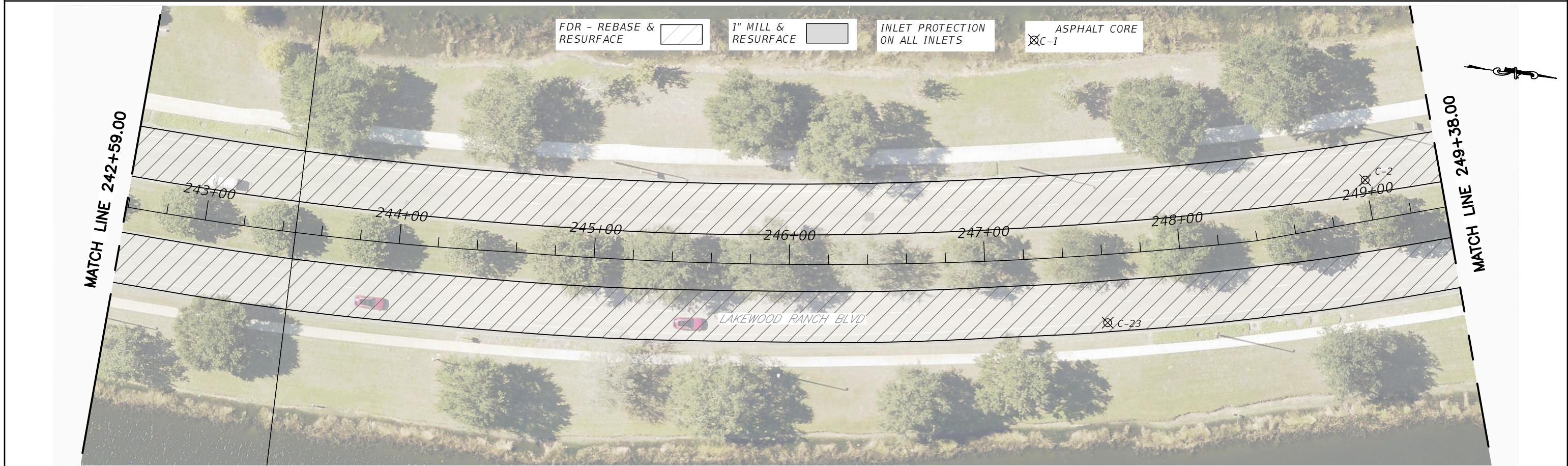
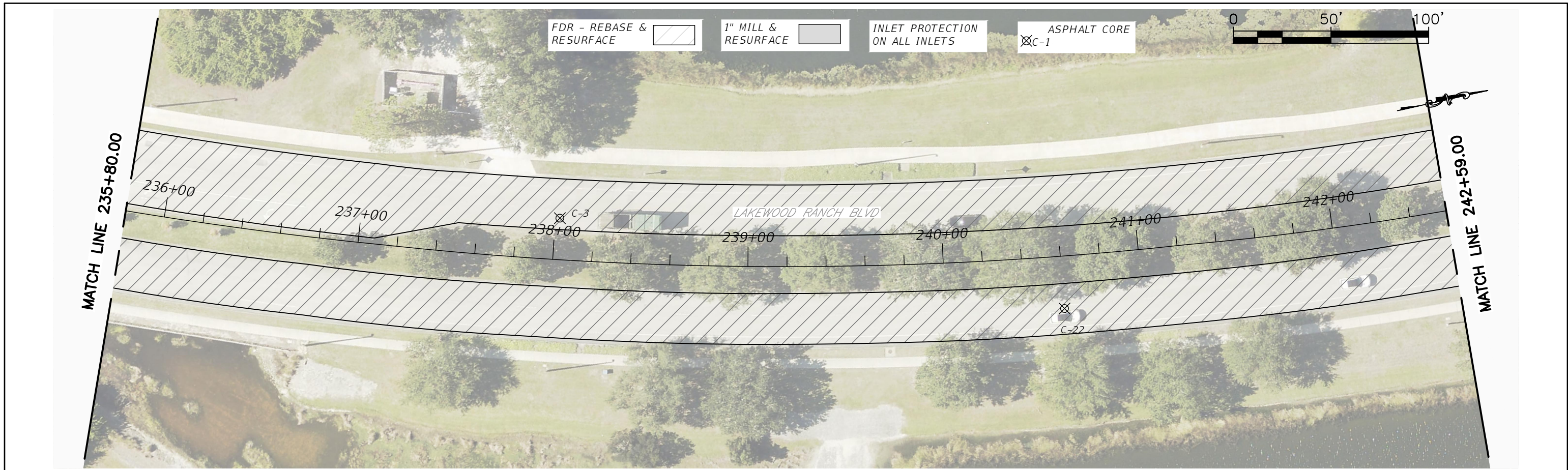
PROJECT #	178-0019905	SURVEYED	N/A	___/___/___
SURVEY #	N/A	DESIGNED	----	___/___/___
SEC./TWN./RGE	00/00/00	DRAWN	RTM	___/___/___
SCALE	AS SHOWN	CHECKED	----	___/___/___

LAKWOOD RANCH BLVD REBASE  
FROM SR 70 TO UNIVERSITY PARKWAY BLVD  
PP STA. 222+22-235+80

SHEET NO.  
15

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LORENZO DUARTE, P.E. FL. P.E. # 79285

PROJECT #	178-0019905	SURVEYED	N/A	___/___/___
SURVEY #	N/A	DESIGNED	----	___/___/___
SEC./TWN./RGE	00/00/00	DRAWN	RTM	___/___/___
SCALE	AS SHOWN	CHECKED	----	___/___/___

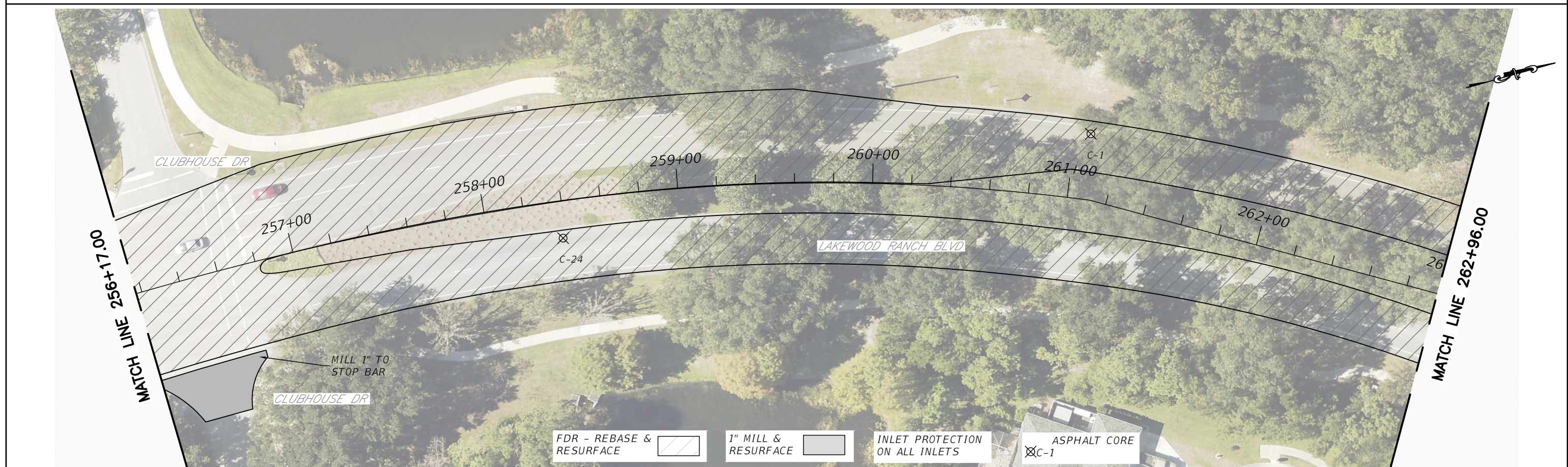
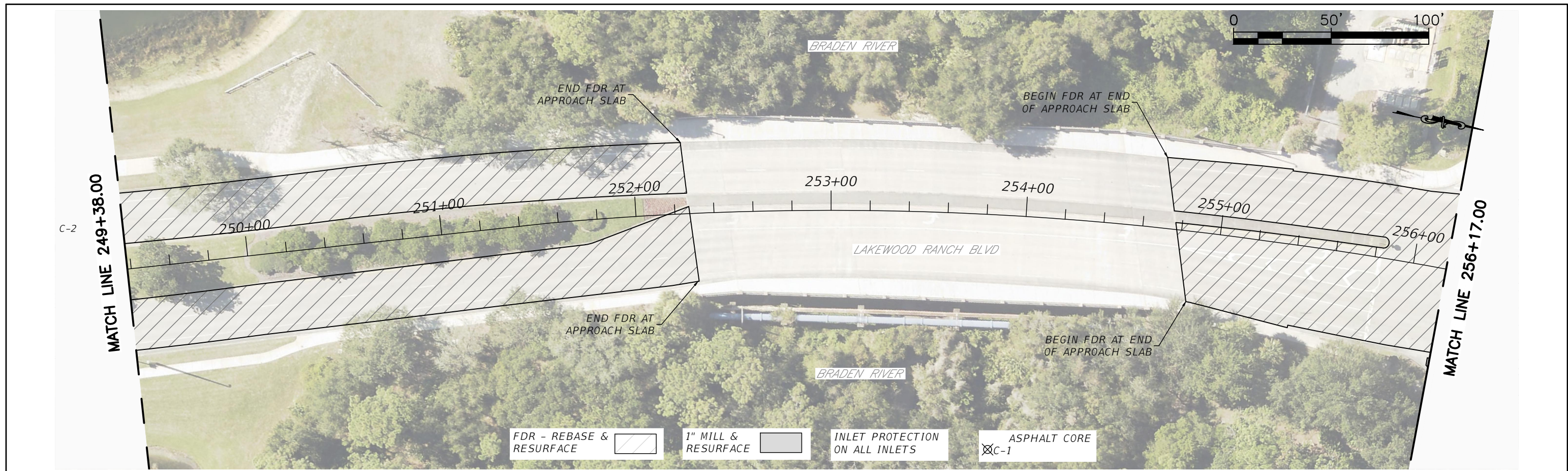
LAKWOOD RANCH BLVD REBASE  
FROM SR 70 TO UNIVERSITY PARKWAY BLVD  
PP STA. 235+80-249+38

SHEET NO.


16

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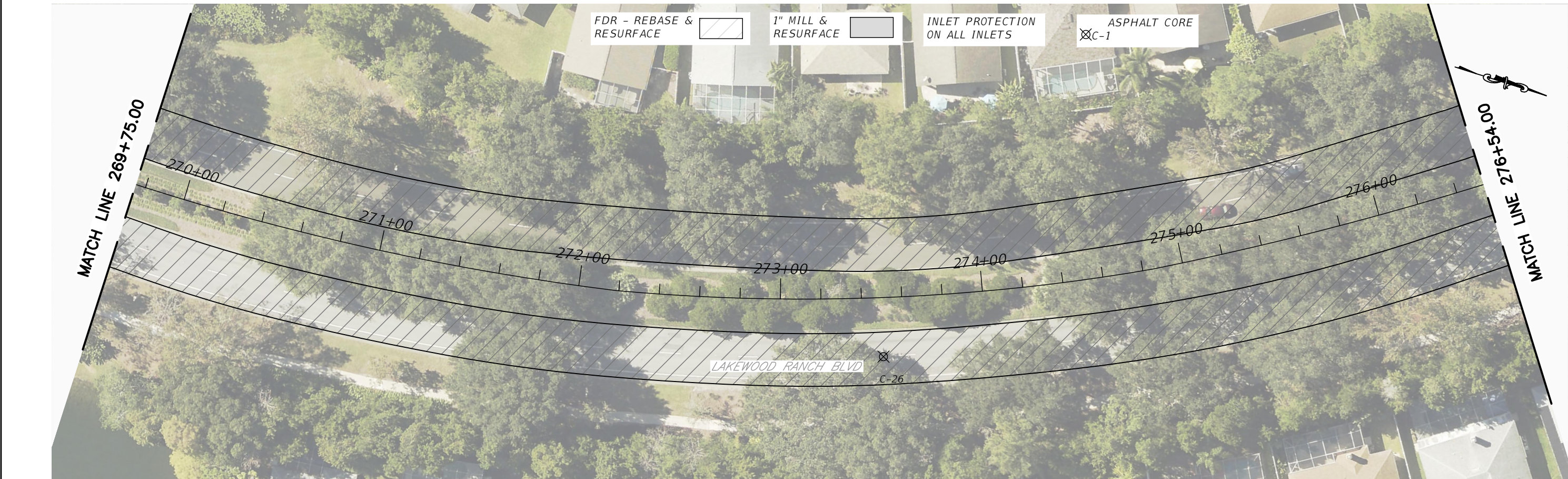
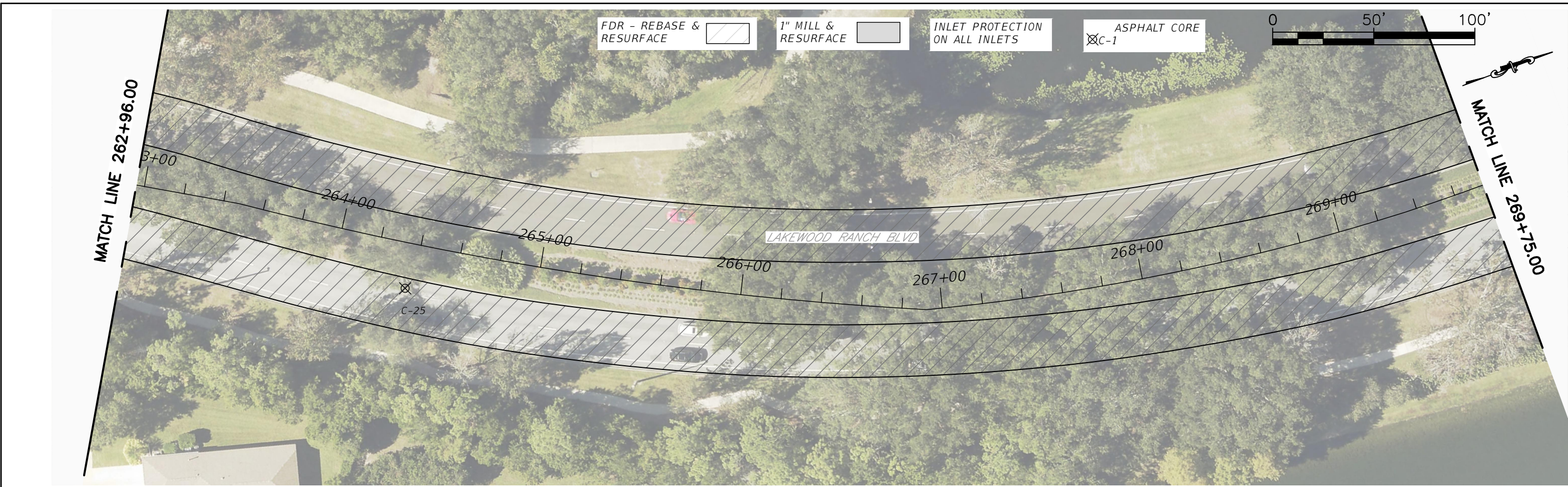
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SEC./TWN./RGE	00/00/00	DRAWN	RTM	___/___/___
SCALE	AS SHOWN	CHECKED	----	___/___/___

**LAKWOOD RANCH BLVD REBASE  
FROM SR 70 TO UNIVERSITY PARKWAY BLVD  
PP STA. 249+38-262+96**


SHEET NO.  
17

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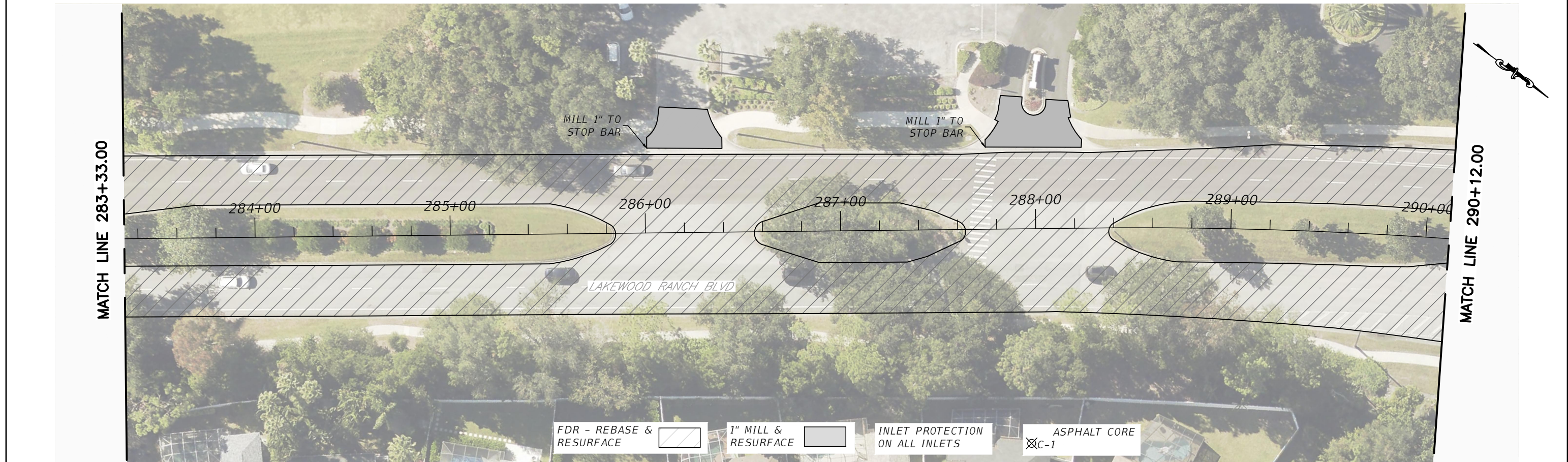
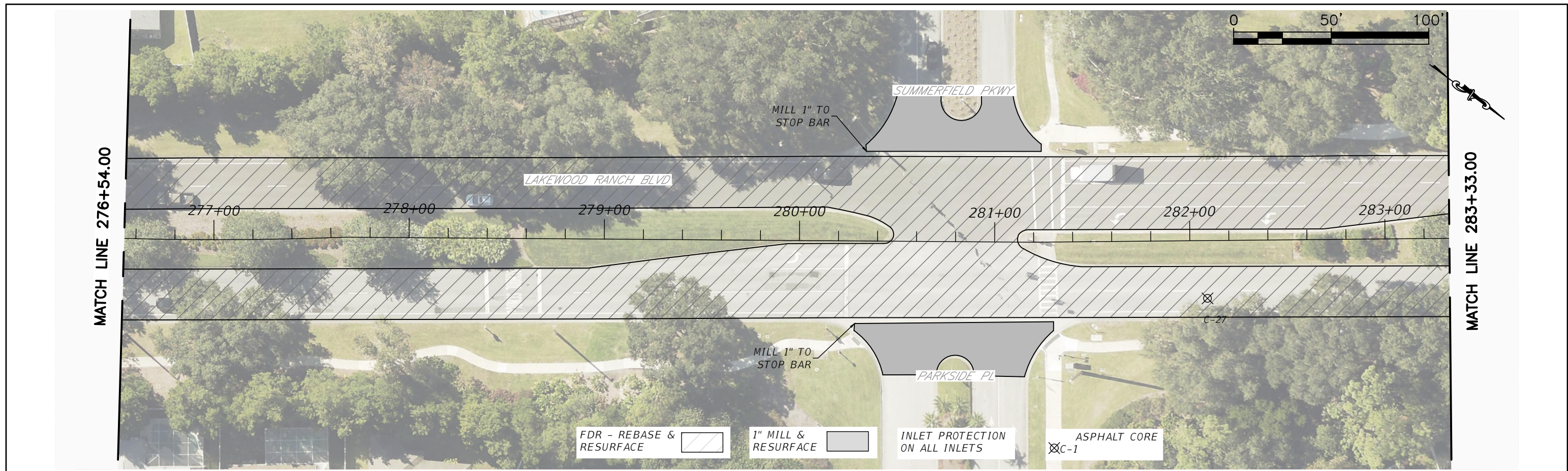
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SURVEY #	N/A	DESIGNED	----	___/___/___
SEC./TWN./RGE	00/00/00	DRAWN	RTM	___/___/___
SCALE	AS SHOWN	CHECKED	----	___/___/___

LAKWOOD RANCH BLVD REBASE  
FROM SR 70 TO UNIVERSITY PARKWAY BLVD  
PP STA. 262+96-276+54


SHEET NO.  
18

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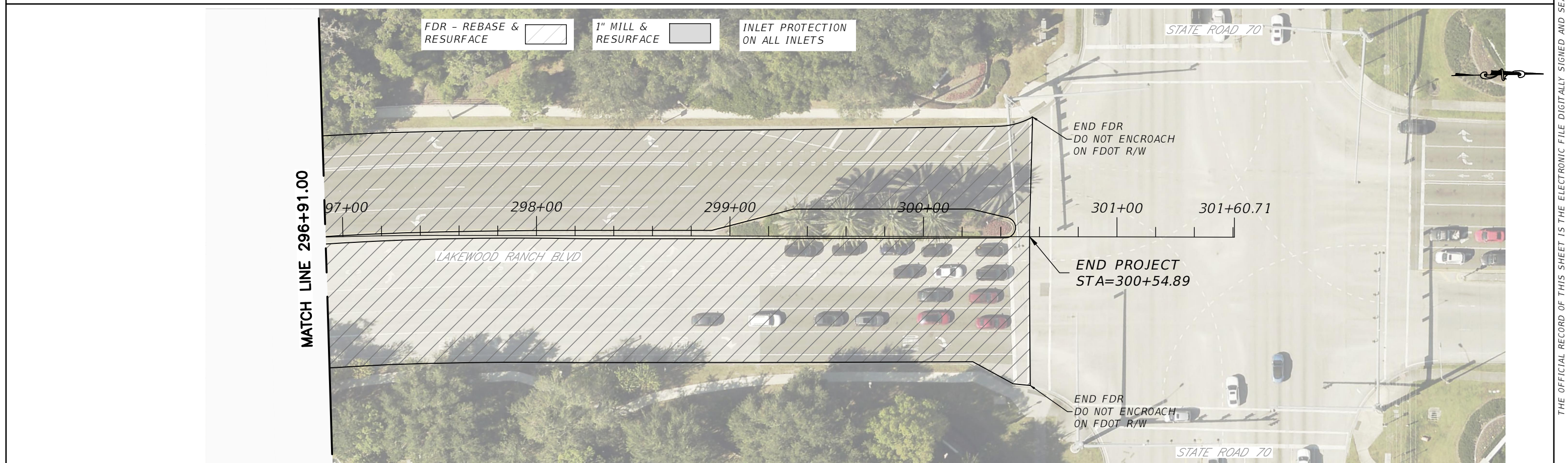
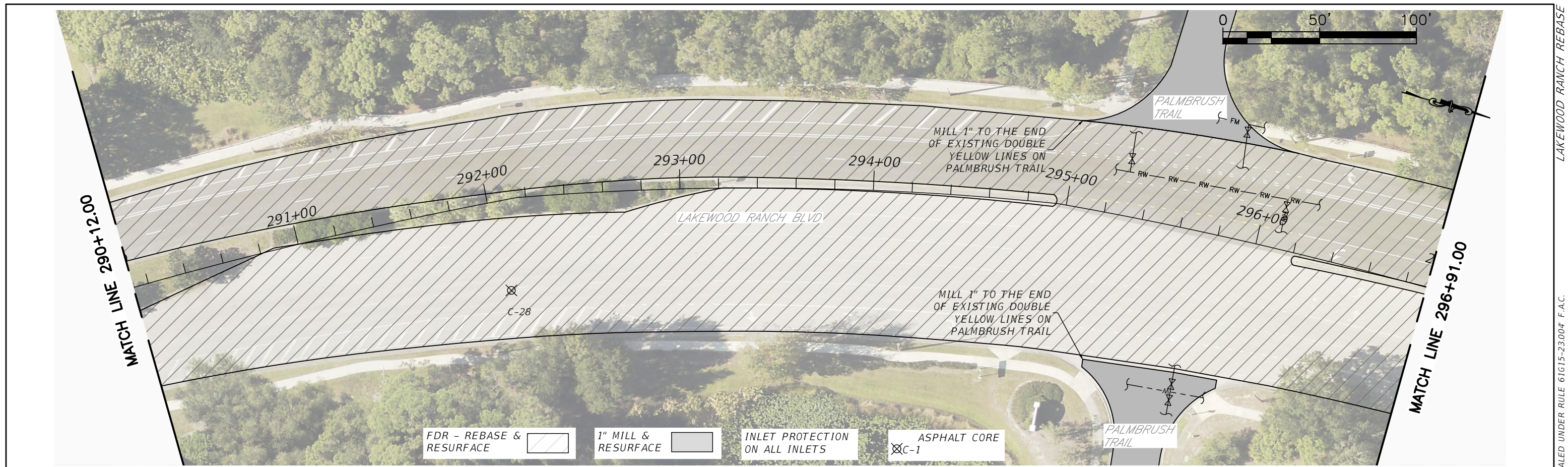
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SEC./TWN./RGE	00/00/00	DRAWN	RTM	___/___/___
SCALE	AS SHOWN	CHECKED	----	___/___/___

**LAKWOOD RANCH BLVD REBASE  
FROM SR 70 TO UNIVERSITY PARKWAY BLVD  
PP STA. 276+54-290+12**


SHEET NO.  
19

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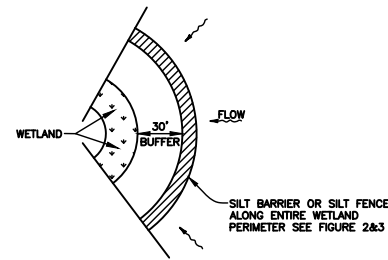
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SURVEY #	N/A	DESIGNED	----	___/___/___
SEC./TWN./RGE	00/00/00	DRAWN	RTM	___/___/___
SCALE	AS SHOWN	CHECKED	----	___/___/___

**LAKWOOD RANCH BLVD REBASE  
FROM SR 70 TO UNIVERSITY PARKWAY BLVD  
PP STA. 290+12-301+60.71**

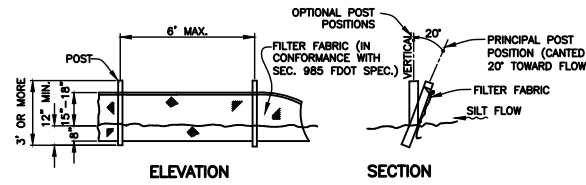
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20

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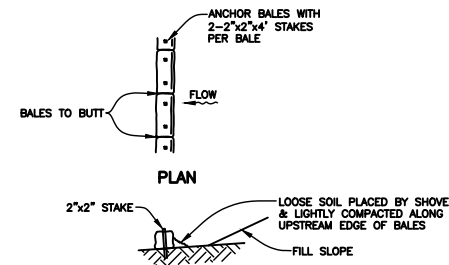


**WETLAND BUFFER**  
FIGURE 1

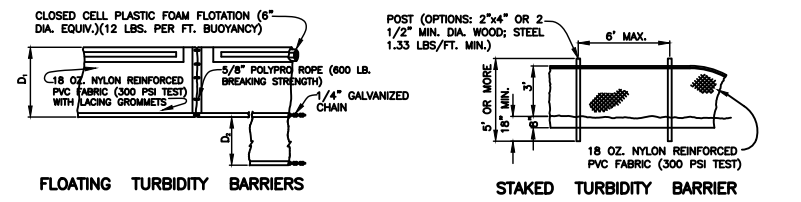


NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF).

**TYPICAL SILT FENCE**  
FIGURE 2



**TYPICAL BALE SILT BARRIER**  
FIGURE 3

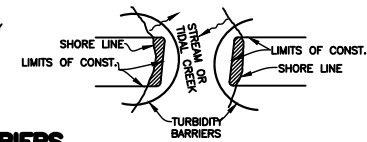


**FLOATING TURBIDITY BARRIERS**

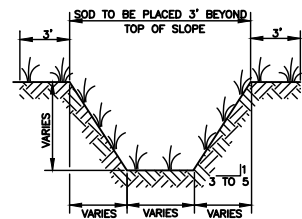
**STAKED TURBIDITY BARRIER**

D, =5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS); D, =5' STD. (ADDITIONAL PANEL FOR DEPTHS > 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.

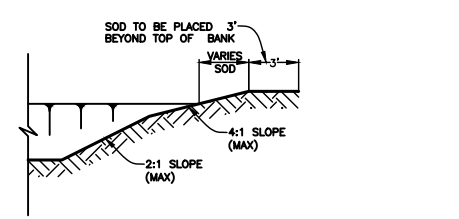
NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.



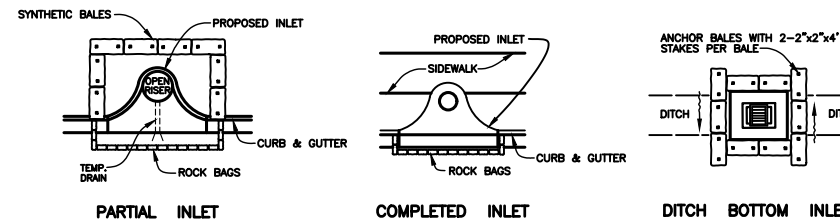
**TURBIDITY BARRIERS**  
FIGURE 4



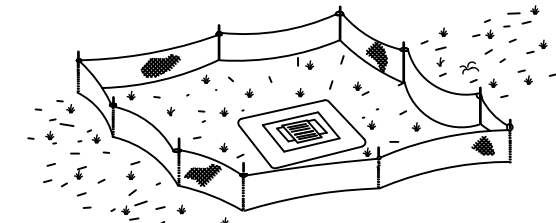
**TYPICAL SWALE SECTION**  
FIGURE 5



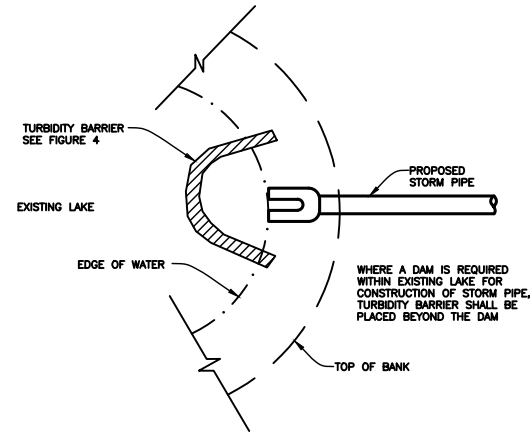
**TYPICAL RETENTION/DETENTION POND SECTION**  
FIGURE 6



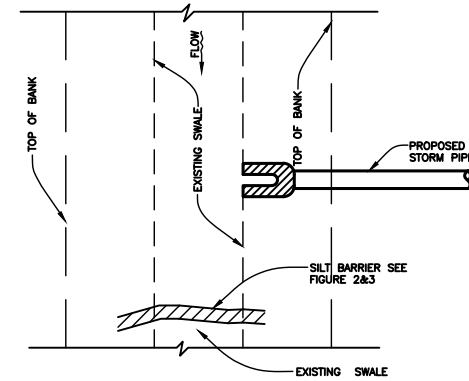
**SYNTHETIC BALE PROTECTION AROUND INLETS OR SIMILAR STRUCTURES**  
FIGURE 7



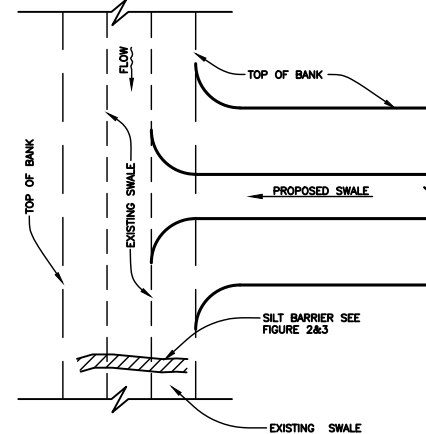
**TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS**  
**STAKED SILT BARRIER OR SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS**  
FIGURE 8



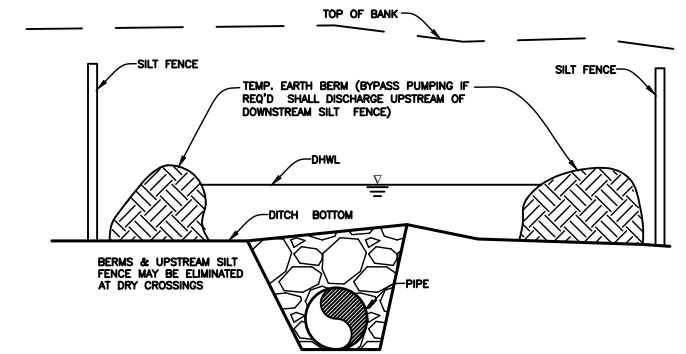
**TURBIDITY BARRIER AT CONNECTION OF STORM PIPE TO EXISTING LAKE**  
FIGURE 9



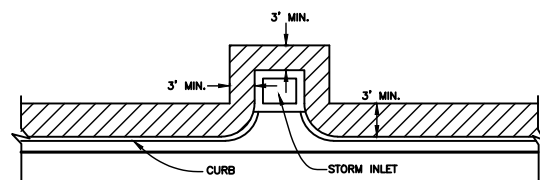
**SILT BARRIER AT CONNECTION OF STORM PIPE TO EXISTING SWALE**  
FIGURE 10



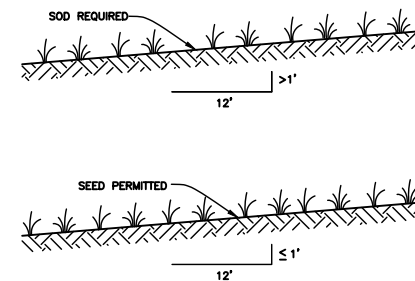
**SILT BARRIER AT CONNECTION OF SWALE TO EXISTING SWALE**  
FIGURE 11



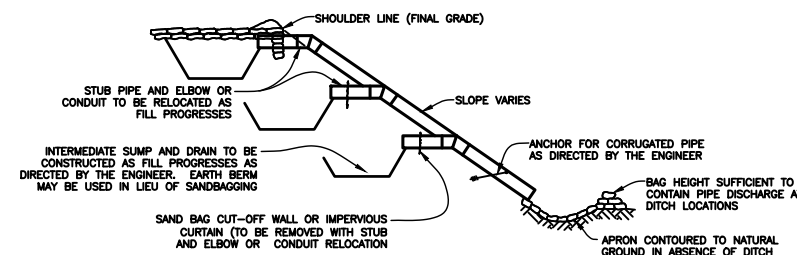
**UNDERGROUND PIPE CROSSING**  
FIGURE 12



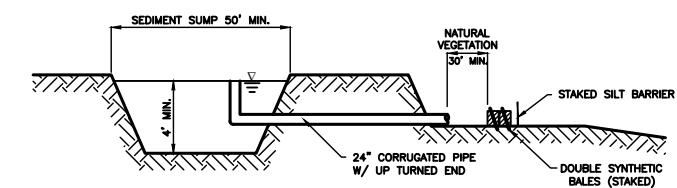
**SOD ALONG CURB AND AROUND INLET**  
FIGURE 14



**GRASS SLOPES**  
FIGURE 13



**SECTION AA**  
**TEMPORARY SLOPE DRAIN**  
FIGURE 15



**SEDIMENT SUMP SECTION**  
FIGURE 16

NOTE:  
REFERENCE THE FDOT DESIGN STANDARDS LATEST EDITION FOR ALL TEMPORARY EROSION CONTROL MEASURES.

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SCALE	AS SHOWN	CHECKED	---	___/___/___

LAKWOOD RANCH BLVD REBASE  
FROM SR 70 TO UNIVERSITY PARKWAY BLVD  
EROSION CONTROL

SHEET NO.  
21