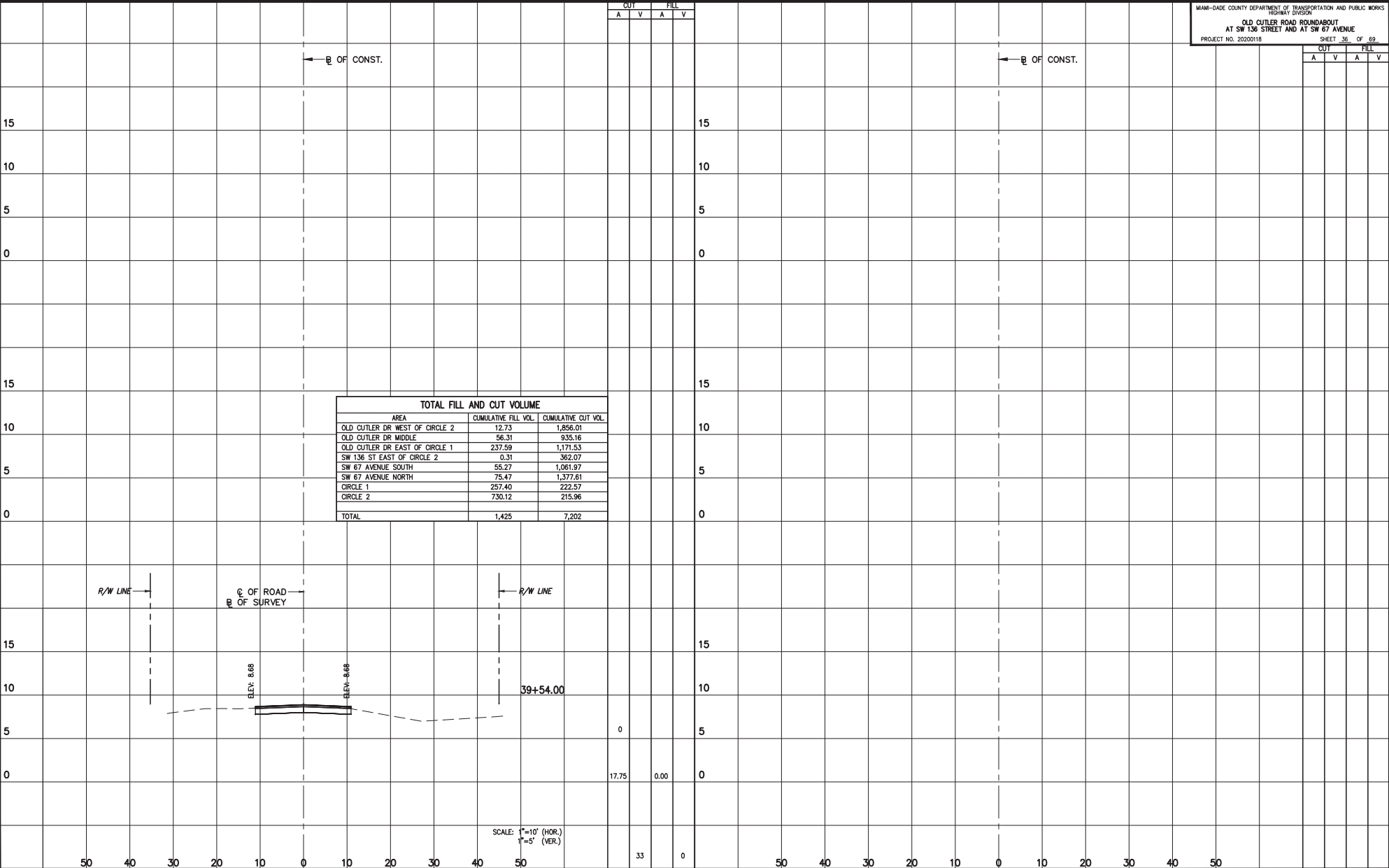


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| TOTAL FILL AND CUT VOLUME      |                      |                     |
|--------------------------------|----------------------|---------------------|
| AREA                           | CUMULATIVE FILL VOL. | CUMULATIVE CUT VOL. |
| OLD CUTLER DR WEST OF CIRCLE 2 | 12.73                | 1,856.01            |
| OLD CUTLER DR MIDDLE           | 56.31                | 935.16              |
| OLD CUTLER DR EAST OF CIRCLE 1 | 237.59               | 1,171.53            |
| SW 136 ST EAST OF CIRCLE 2     | 0.31                 | 362.07              |
| SW 67 AVENUE SOUTH             | 55.27                | 1,061.97            |
| SW 67 AVENUE NORTH             | 75.47                | 1,377.61            |
| CIRCLE 1                       | 257.40               | 222.57              |
| CIRCLE 2                       | 730.12               | 215.96              |
| <b>TOTAL</b>                   | <b>1,425</b>         | <b>7,202</b>        |

| CUT |   | FILL |   |
|-----|---|------|---|
| A   | V | A    | V |
| 33  | 0 | 0    | 0 |

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
 OLD CUTLER ROAD ROUNDABOUT  
 AT SW 136 STREET AND AT SW 67 AVENUE  
 PROJECT NO. 20220018 SHEET 36 OF 69

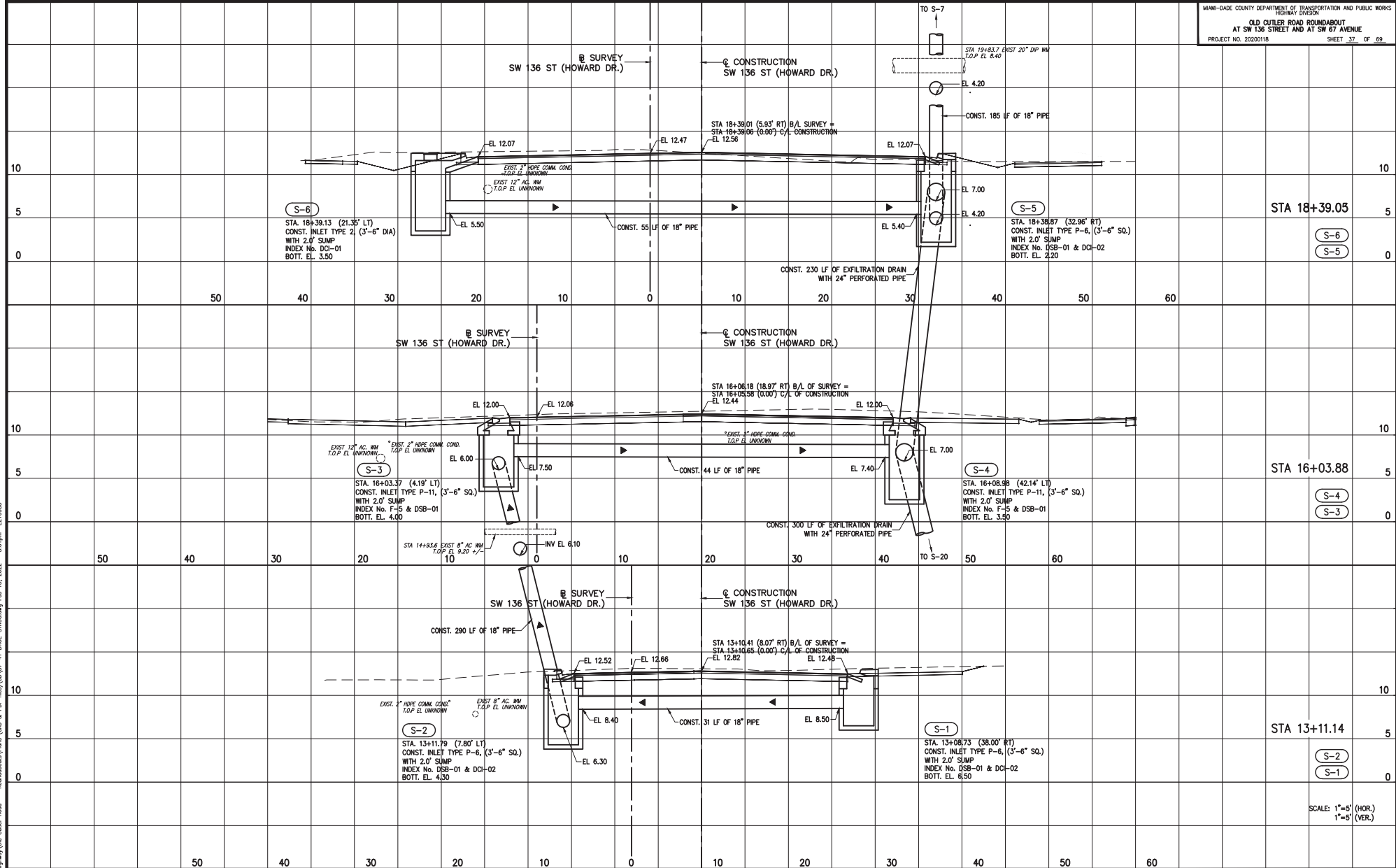
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| A.S.        |        | 2/14/2022 | J.M.       |        | 2/14/2022 |
| CHECKED BY  | L.A.O. | 2/14/2022 | CHECKED BY | L.A.O. | 2/14/2022 |



**CROSS SECTIONS  
 SW 67 AVENUE**



SCALE: 1"=5' (HOR.)  
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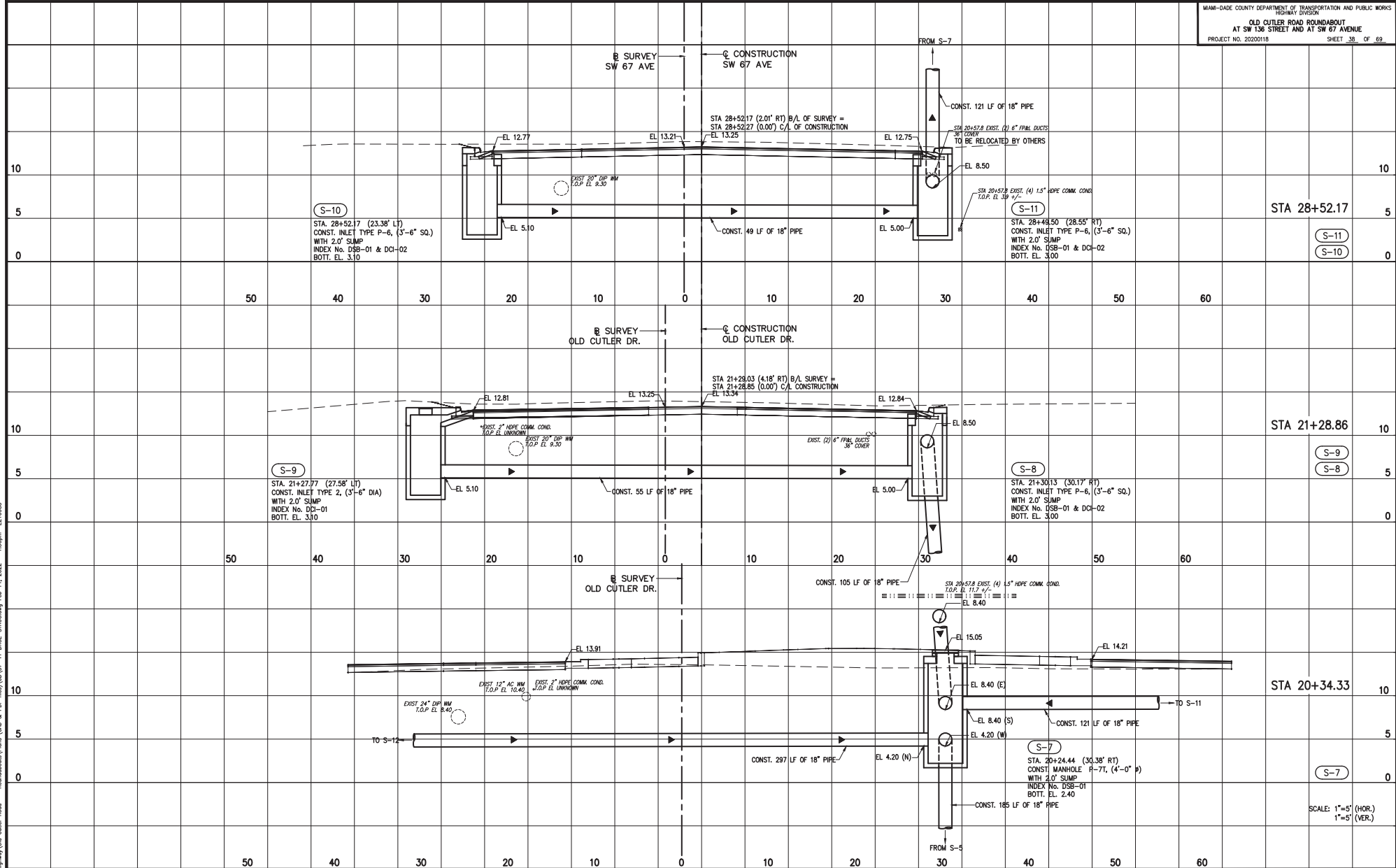
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| CHECKED BY  | L.A.O. | 2/14/2022 | CHECKED BY | L.A.O. | 2/14/2022 |

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
**MIAMI-DADE COUNTY**  
 STEPHEN B. CLARK CENTER  
 100 N.W. 1<sup>ST</sup> ST.  
 MIAMI, FLORIDA 33138

DRAINAGE STRUCTURES

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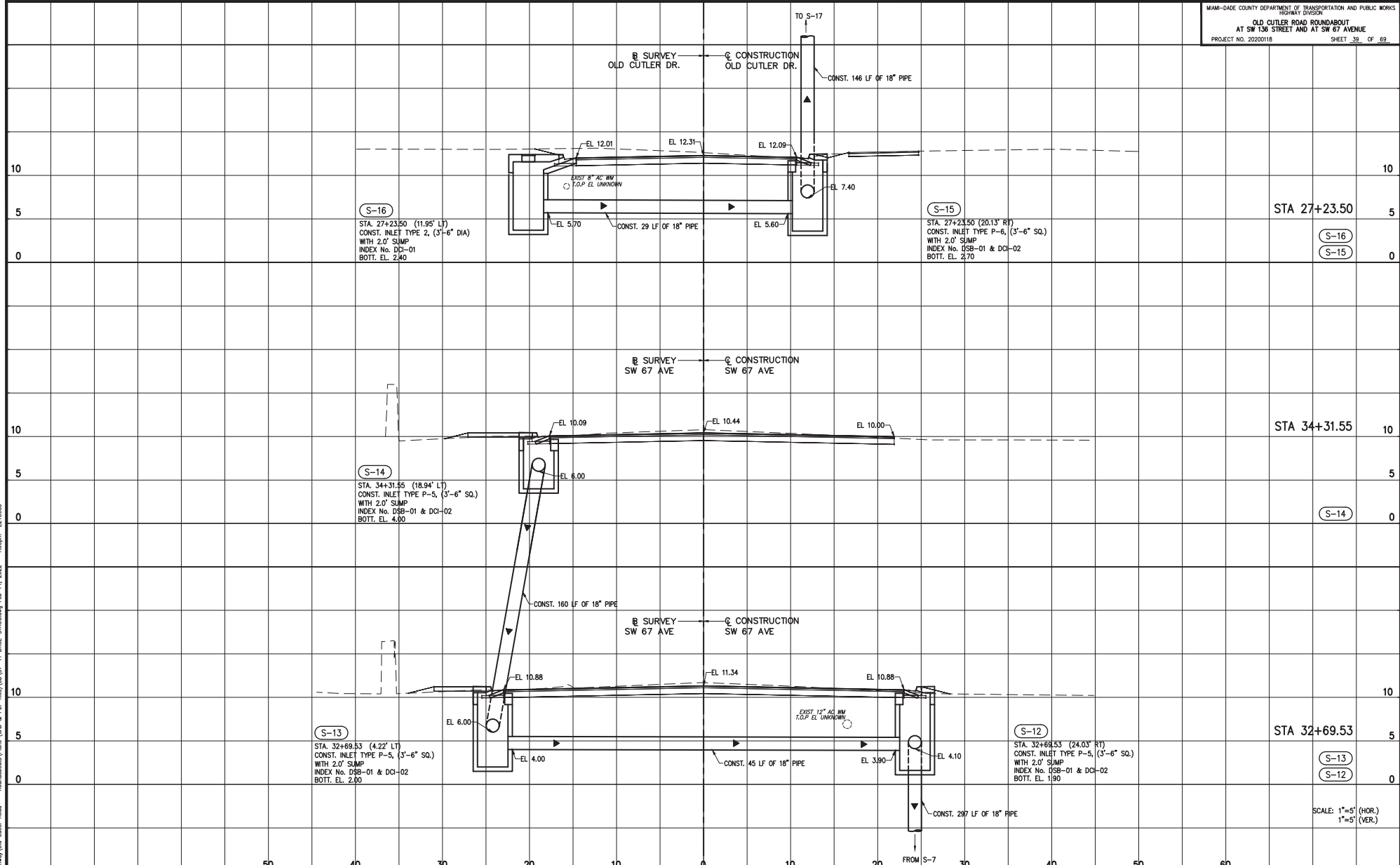
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DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
**MIAMI-DADE COUNTY**  
STEPHEN P. CLARK, CHIEF ENGINEER  
 MIAMI, FLORIDA 33138

**DRAINAGE STRUCTURES**

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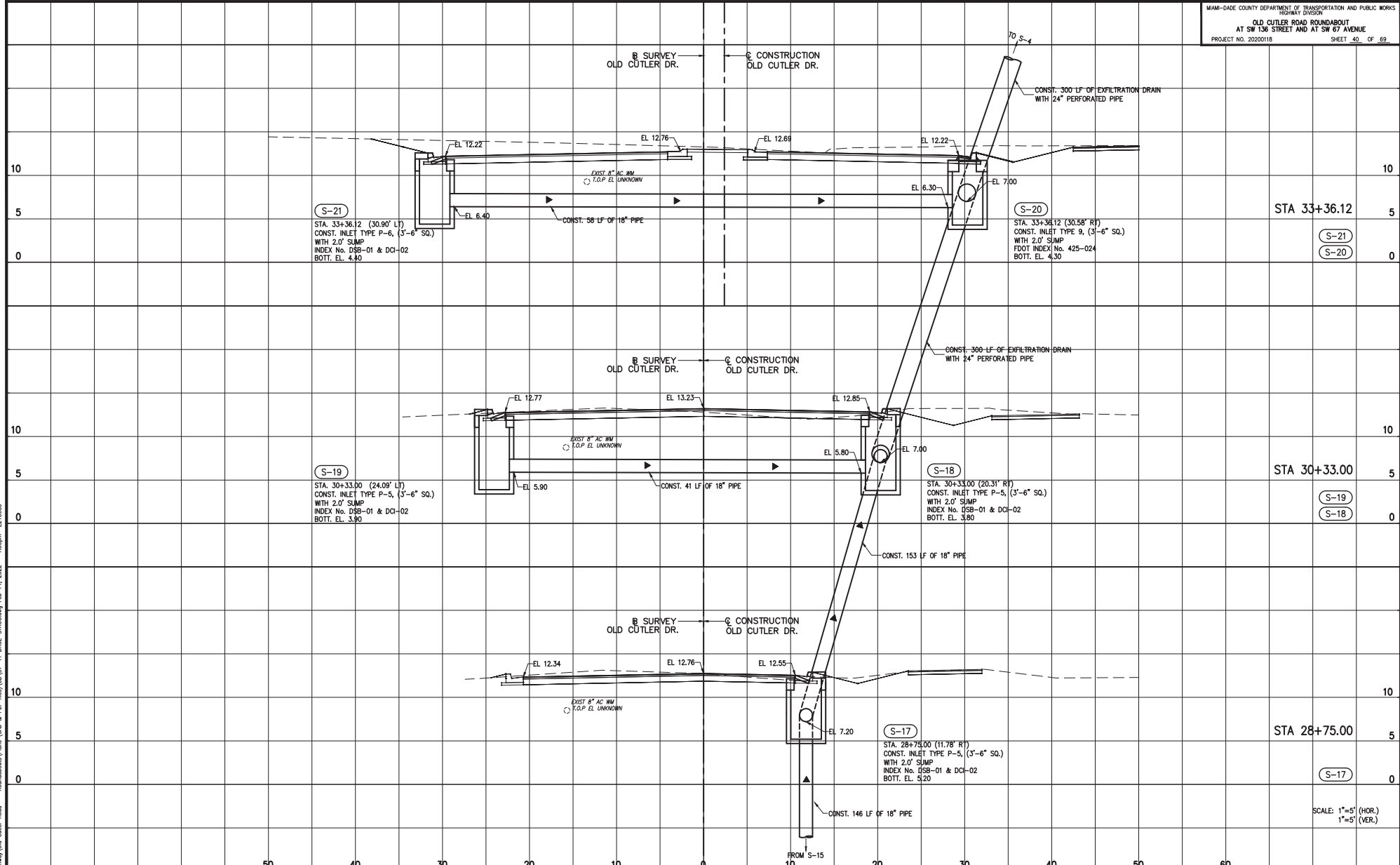
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| SUPERVISED BY: |        |      |            |        |      |

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY DIVISION  
STEPHEN P. CLARK, CENTER FOR THE CITY OF MIAMI, FLORIDA 33138

DRAINAGE STRUCTURES

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S-21  
 STA. 33+36.12 (30.90' LT)  
 CONST. INLET TYPE P-6, (3'-6" SQ.)  
 WITH 2.0' SLUMP  
 INDEX No. DSB-01 & DCI-02  
 BOTTL. EL. 4.40

S-20  
 STA. 33+36.12 (30.58' RT)  
 CONST. INLET TYPE 9, (3'-6" SQ.)  
 WITH 2.0' SLUMP  
 FDOT INDEX No. 425-024  
 BOTTL. EL. 4.30

S-19  
 STA. 30+33.00 (24.09' LT)  
 CONST. INLET TYPE P-5, (3'-6" SQ.)  
 WITH 2.0' SLUMP  
 INDEX No. DSB-01 & DCI-02  
 BOTTL. EL. 3.90

S-18  
 STA. 30+33.00 (20.31' RT)  
 CONST. INLET TYPE P-5, (3'-6" SQ.)  
 WITH 2.0' SLUMP  
 INDEX No. DSB-01 & DCI-02  
 BOTTL. EL. 3.80

S-17  
 STA. 28+75.00 (11.78' RT)  
 CONST. INLET TYPE P-5, (3'-6" SQ.)  
 WITH 2.0' SLUMP  
 INDEX No. DSB-01 & DCI-02  
 BOTTL. EL. 5.20

STA 33+36.12  
 S-21  
 S-20

STA 30+33.00  
 S-19  
 S-18

STA 28+75.00  
 S-17

SCALE: 1"=5' (HOR.)  
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FROM S-15

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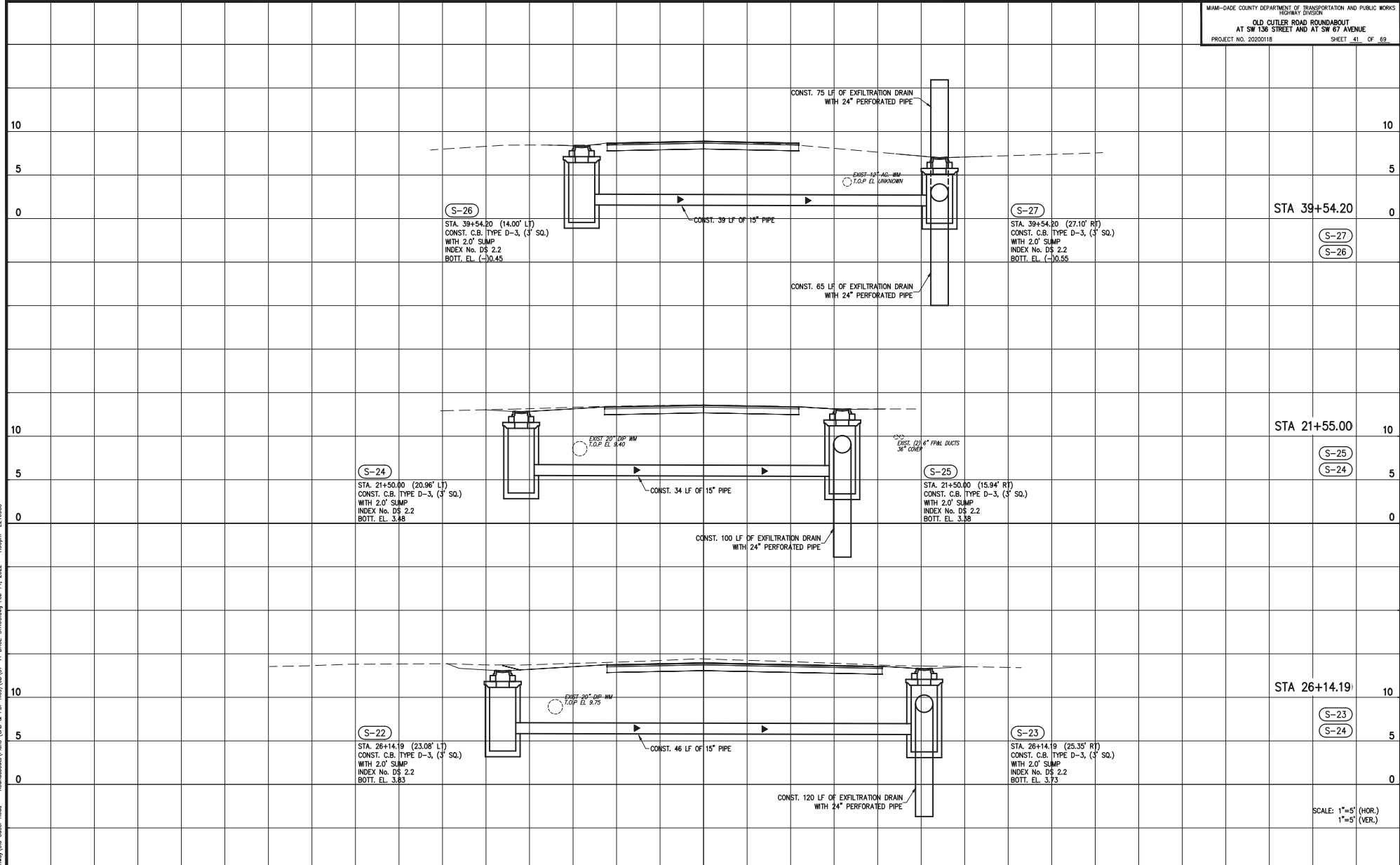
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| CHECKED BY     | L.A.O. |      | CHECKED BY | L.A.O. |      |
| SUPERVISED BY: |        |      |            |        |      |

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
 STEPHEN P. CLARK CENTER  
 100 N.W. 117  
 MIAMI, FLORIDA 33138

DRAINAGE STRUCTURES

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S-24

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DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
HIGHWAY DIVISION  
**MIAMI-DADE COUNTY**  
STEPHEN P. CLARK, CENTER  
100 N.W. 11<sup>TH</sup> STREET  
MIAMI, FLORIDA 33138

DRAINAGE STRUCTURES

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**GENERAL NOTES**

1. TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH THE PROJECT PLANS, THE MIAMI-DADE COUNTY PUBLIC WORKS MANUAL AS PERTAINS TO MAINTENANCE OF TRAFFIC, THE CURRENT EDITION OF THE FLORIDA DOT DESIGN STANDARDS (600 SERIES), THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS MINIMUM CRITERIA
2. THE CONTRACTOR SHALL DEVELOP MAINTENANCE OF TRAFFIC PLAN OF HIS OWN, MEETING THE REQUIREMENTS SPECIFIED IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION AND THE FOOT INDEX 600 SERIES. THE CONTRACTOR'S MAINTENANCE OF TRAFFIC PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO START OF CONSTRUCTION. THE PLANS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
3. TEMPORARY PAVEMENT SHALL CONSIST OF A MINIMUM OF 6 INCH LIMEROCK BASE, PRIME COAT AND 1-1/2 INCHES HMA. THE BASE LAYER SHALL BE PLACED OVER A FIRM, UNYIELDING, WELL-COMPACTED SUBGRADE. COST OF CONSTRUCTION AND REMOVAL OF TEMPORARY PAVEMENT TO BE INCLUDED IN PAY ITEM 339-2, TEMPORARY ASPHALT.
4. THE CONTRACTOR SHALL IMMEDIATELY REPAIR ALL POTHoles THAT DEVELOP WITHIN THE PROJECT LIMITS AND WILL MAINTAIN A SUPPLY OF COLD MIX ON THE PROJECT SITE TO EXPEDITE THOSE REPAIRS. COST OF REPAIR TO BE INCLUDED IN PAY ITEM 339-2, TEMPORARY ASPHALT.
5. NOTIFICATION OF LANE CLOSURES OR TEMPORARY DETOURS SHALL BE ACCOMPLISHED 14 WORKING DAYS PRIOR TO CLOSURE OR DETOUR BY COORDINATING WITH DADE COUNTY PUBLIC WORKS DEPARTMENT AND DADE COUNTY TRAFFIC OPERATIONS.
6. THE CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF A DETOUR IN ACCORDANCE WITH SECTION 336.07 OF THE FLORIDA STATUTES.
7. AT THE DISCRETION OF THE ENGINEER, IF A LANE CLOSURE CAUSES EXTENDED CONGESTION OR DELAY, THE CONTRACTOR SHALL BE DIRECTED TO REOPEN THE CLOSED LANE(S) UNTIL SUCH TIME THAT THE TRAFFIC FLOW HAS RETURNED TO AN ACCEPTABLE LEVEL.
8. THE TRAFFIC AND TRAVEL WAYS SHALL NOT BE ALTERED BY THE CONTRACTOR TO CREATE A WORK ZONE UNTIL ALL LABOR AND MATERIAL ARE AVAILABLE FOR THE CONSTRUCTION IN THAT AREA.
9. LANE CLOSURE SHALL OCCUR ONLY DURING NON-PEAK HOURS ON NONEVENT DAYS/NIGHTS. NO INTERRUPTION TO TRAFFIC IS PERMITTED FROM MONDAY-FRIDAY 7-9 A.M. AND 4-6 P.M. OR ON WEEKENDS AND HOLIDAYS.
10. REGULATORY SPEED ESTABLISHED WITHIN THE WORK ZONE TRAVEL WAYS SHALL BE 25 M.P.H. REDUCED SPEED AND REGULATORY SPEED SIGNS SHALL BE INSTALLED ON SEPARATE POSTS IN ACCORDANCE WITH THE STANDARD INDEXES.
11. CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY DURING ALL PHASES OF CONSTRUCTION. LOCAL RESIDENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE GIVEN ACCESS TO THEIR PROPERTY DURING ALL PHASES OF CONSTRUCTION. LOCAL RESIDENTS INCLUDE ALL COMMERCIAL ESTABLISHMENTS AND BUSINESSES.
12. SIGNS ARE TO BE LOCATED BEFORE EACH BUSINESS OR SHOPPING PLAZA ENTRANCE WHERE CONSTRUCTION NEGATIVELY IMPACTS THE ACCESS TO THE BUSINESS OR SHOPPING PLAZA OR AS DIRECTED BY THE ENGINEER. TWO SIGNS WILL TYPICALLY BE REQUIRED AT EACH ENTRANCE. SIGNS ARE TO BE DISPLAYED AS DESCRIBED IN INDEX 600 OF THE ROADWAY AND TRAFFIC DESIGN STANDARDS.
13. AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL COVER WORK ZONE SIGNS WHEN CONDITIONS NO LONGER WARRANT THEIR USE. COST OF COVERING AND UNCOVERING THE SIGNS SHALL BE INCLUDED IN PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
14. CONTRACTOR SHALL REMOVE, RELOCATE, OR COVER ANY EXISTING OR PROPOSED SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS. WHEN THE CONFLICT NO LONGER EXISTS, THE CONTRACTOR SHALL RESTORE THE SIGNS TO THEIR ORIGINAL POSITION. COST OF TEMPORARILY REMOVING, RELOCATING, COVERING, AND RESTORING THE SIGNS SHALL BE INCLUDED IN THE PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
15. EACH EXISTING STREET NAME AND TRAFFIC SIGN AFFECTED BY CONSTRUCTION SHALL BE RELOCATED AND MAINTAINED IN AN APPROPRIATE LOCATION FOR THE DURATION OF THE PROJECT. WHEN NO LONGER AFFECTED BY CONSTRUCTION, THESE SIGNS SHALL BE RESTORED IN THEIR ORIGINAL POSITION. COST OF TEMPORARILY RELOCATING AND RESTORING THE SIGNS SHALL BE INCLUDED IN PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
16. THE CONTRACTOR SHALL NOT PROPOSE ANY ALTERNATIVE TRAFFIC CONTROL PLAN THAT REDUCES THE NUMBER OF TRAVEL LANES SHOWN ON THE CONTRACT TRAFFIC CONTROL PLANS.
17. ARROWS ON THE TRAFFIC CONTROL PLAN DENOTE THE DIRECTION OF TRAFFIC ONLY AND DO NOT REFLECT PAVEMENT MARKINGS UNLESS SPECIFICALLY NOTED.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORM WATER FROM ROADWAYS UTILIZED FOR MAINTAINING TRAFFIC IN A MANNER APPROVED BY THE ENGINEER. COST FOR REMOVING THE WATER SHALL BE INCLUDED IN PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
19. FOR DROP-OFF, THE CONTRACTOR'S ATTENTION IS DIRECTED TO FDOT STANDARD INDEX NO. 600, SHEET 7 OF 10. THE CONTRACTOR SHALL USE SHOULDER TREATMENT DETAIL WHEN NO BARRIERS ARE REQUIRED IN THE PLANS.
20. DURING ASPHALT CONSTRUCTION OPERATIONS, NO MORE THAN 1/2" DROP-OFF BETWEEN ADJACENT TRAVEL LANES OR AT TRANSVERSE JOINTS SHALL BE ALLOWED WHEN LANES ARE OPEN TO TRAFFIC. WHERE DROP OFF CONDITIONS EXIST, THE SIGNING FOR UNEVEN PAVEMENT SHALL BE INSTALLED FOR THE DURATION OF THE CONDITION (W8-9AP).
21. THE CONTRACTOR IS TO PLACE TEMPORARY OR REMOVABLE PAVEMENT MARKINGS BETWEEN EACH LAYER OF PAVEMENT, AND IS RESPONSIBLE FOR THE TEMPORARY RELOCATION OF STOP BARS & STOP SIGNS AS APPLICABLE. PAVEMENT MARKINGS AND BARRICADES PLACEMENT SHALL BE APPROPRIATELY COORDINATED.
22. THE CONTRACTOR SHALL REMOVE ANY EXISTING OR TEMPORARY PAVEMENT MARKINGS THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS. GRINDING OR MILLING SHALL ONLY BE PERMITTED IN NON-TRAFFIC AREAS. COST OF REMOVAL OF TEMPORARY PAVEMENT MARKINGS, REGARDLESS OF METHOD, IS INCLUDED IN THE RELATED PAY ITEMS. USE OF BLACK PAINT TO COVER EXISTING AND/OR TEMPORARY PAVEMENT MARKINGS IS PROHIBITED.
23. TEMPORARY LANE TRANSITIONS, SHIFTS, AND CROSSOVERS SHALL HAVE SOLID LANE AND EDGE LINES FOR THE LENGTH OF THE TRANSITION, SHIFT OR CROSSOVER. IN ADDITION, SOLID LANE AND EDGE LINES SHALL EXTEND 100 FT. ON THE TANGENT SECTION BEYOND EACH END OF THESE CROSSOVERS OR TRANSITION AREAS. COST OF THE TEMPORARY RPMS SHALL BE INCLUDED IN PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
24. TEMPORARY RAISED PAVEMENT MARKERS (RPMS) SHALL BE INSTALLED ON THE EDGE, CENTER, AND LANE LINES OF ALL CROSS-OVERS, TRANSITIONS, AND TANGENT SECTIONS WITHIN THE WORK ZONE WHERE THE VEHICLE PATHS ARE ALTERED. THE SPACING FOR THESE RPMS SHALL BE 40 FT. ON CENTERS FOR TANGENT SECTIONS AND 5 FT. FOR TRANSITIONS, CURVES, AND CROSSOVERS. THE RPMS SHALL EXTEND 100 FT. ON THE TANGENT SECTION BEYOND EACH END OF THESE CROSSOVERS OR TRANSITION AREAS. COST OF THE TEMPORARY RPMS SHALL BE INCLUDED IN THE PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
25. CONTRACTOR SHALL NOTIFY MIAMI-DADE COUNTY TRAFFIC SIGNS AND SIGNALS DIVISION LOCATED AT 7100 NW 36 STREET, MIAMI, FLORIDA 33166 AND PHONE NO. (305) 592-3470, 48 HOURS PRIOR TO ANY MODIFICATION OF AN EXISTING TRAFFIC SIGNAL SYSTEM. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR THE MAINTENANCE OF THE EXISTING OR TEMPORARY TRAFFIC SIGNAL(S) WITHIN THE PROJECT LIMITS. COST OF RELOCATING TRAFFIC SIGNAL HEADS, PROVIDING AND REMOVING TEMPORARY SIGNALS, AND MAINTAINING THE EXISTING TEMPORARY TRAFFIC SIGNAL SHALL BE INCLUDED IN PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
26. THE PROPOSED SIGNALS SHALL BE INSTALLED AND OPERATIONAL PRIOR TO THE REMOVAL OF THE EXISTING SYSTEM AND SHALL BE ADJUSTED TO THE TRAFFIC NEEDS FOR EACH CONSTRUCTION PHASE.
27. THE CONTRACTOR SHALL MAINTAIN ON-LINE COMMUNICATION OF EXISTING OR TEMPORARY SIGNALIZATION VIA INTERCONNECT OR PHONE LINE CONSTRUCTION. CONTRACTORS SHALL PROVIDE TEMPORARY LINES AND CONNECTIONS IF NECESSARY. COST OF MAINTAINING COMMUNICATION, INCLUDING TEMPORARY LINES AND CONNECTIONS SHALL BE INCLUDED IN PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
28. INTERSECTIONS SHALL BE RECONSTRUCTED WORKING ON A CONTINUOUS DAILY BASIS UNTIL COMPLETE AND UNTIL STRUCTURAL COURSE IS IN PLACE.
29. AT ALL INTERSECTING STREETS, NO LESS THAN ONE "ROAD CONSTRUCTION AHEAD" SIGN AND ONE "END CONSTRUCTION" SIGN MUST BE INSTALLED. (TWO EACH FOR STREETS WITH MEDIAN).
30. ADJACENT INTERSECTIONS SHALL NOT BE CONSTRUCTED SIMULTANEOUSLY UNLESS DIRECTED BY THE ENGINEER. FOR EVERY BLOCK, CONSTRUCTION OF DRAINAGE AND SIDEWALK SHOULD BE CONCURRENT WITH ROADWAY CONSTRUCTION.
31. MOT TRANSITIONS AND TEMPORARY INTERSECTION CROSSOVERS WHERE CONSTRUCTION HAS CAUSED GRADE DIFFERENCES BETWEEN THE EXISTING AND NEW ROADWAYS SHALL BE CONSTRUCTED USING A 1:20 HMA SLOPE TO ACCOMMODATE VEHICULAR TRAFFIC FROM ANY DIRECTION. ALL MATERIAL WORK, INCLUDING ITS REMOVAL, SHALL BE INCLUDED IN PAY ITEM 339-2, TEMPORARY ASPHALT.
32. COORDINATION WITH DADE COUNTY PUBLIC WORKS DEPARTMENT WILL BE REQUIRED.
33. PAVED TEMPORARY CONNECTIONS SHALL BE PROVIDED AT INTERSECTIONS AS DIRECTED BY THE ENGINEER.
34. TRAFFIC SHALL BE MAINTAINED ON A PAVED, DUST-FREE SURFACE AT ALL TIMES.
35. THE CONTRACTOR MUST MAINTAIN TWO LANES OF TRAFFIC AT ALL TIMES. ALL LANES TO BE A MINIMUM OF 10 FT. IN WIDTH.
36. PLANS INDICATE ONLY THE PHASES FOR CONSTRUCTION. MILLING AND RESURFACING OPERATIONS MUST FOLLOW THE SAME FOOT 600 INDEX SERIES, AND MUST BE ACCOMPLISHED AT HOURS APPROVED BY THE ENGINEER.
37. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ROADWAY LIGHTING ILLUMINATION LEVELS DURING CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN EXISTING LIGHTING OR SUPPLY TEMPORARY LIGHTING UNTIL THE PROPOSED SYSTEM IS IN OPERATION. THE CONTRACTOR SHALL SUBMIT A COMPLETE PROPOSED METHOD OF MAINTAINING LIGHTING FOR APPROVAL BY COUNTY ENGINEER PRIOR TO BEGINNING WORK. REFER TO ROADWAY LIGHTING PLANS AND OTHER APPLICABLE DRAWINGS FOR INFORMATION ON EXISTING AND PROPOSED ROADWAY LIGHTING AND DETAIL OF ROADWAY CONSTRUCTION. IF ANY PART OF THE SYSTEM IS OWNED BY F.P.&L, COORDINATE CLOSELY WITH F.P.&L.
38. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE EROSION CONTROL MEASURES TO PREVENT CLOG OF PROPOSED DRAINAGE STRUCTURES AND SEDIMENT INTRUSION ON WATERWAYS DURING CONSTRUCTION. THESE MEASURES SHALL BE APPROVED BY THE ENGINEER AND CONFORM WITH CURRENT EDITION OF THE FOOT DESIGN STANDARDS FOR EROSION CONTROL (100 SERIES).
39. CONTRACTOR MUST MAINTAIN DRAINAGE AT ALL TIMES. THE EXISTING DRAINAGE SYSTEM SHALL BE KEPT OPERATIONAL OR TEMPORARY DRAINAGE PROVIDED WHILE THE PROPOSED DRAINAGE SYSTEM IS BEING CONSTRUCTED. THE CONTRACTOR SHALL PROVIDE THE NECESSARY TEMPORARY DRAINAGE AS APPROVED BY THE ENGINEER. ALL COSTS SHALL BE INCLUDED IN THE PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
40. AT THE END OF EACH WORK DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP OFF GREATER THAN 6 INCHES (150 MM) ADJACENT TO THE PEDESTRIAN, BICYCLE, AND WHEELCHAIR TRAVEL PATHS SHALL BE BACKFILLED FLUSH WITH SAND PATHS OR PROTECTED WITH TEMPORARY FENCE, CONCRETE BARRIER WALL OR APPROVED HANDRAIL. COST SHALL BE INCLUDED IN THE PAY ITEM 339-2, TEMPORARY ASPHALT.
41. PEDESTRIAN, BICYCLE, AND WHEELCHAIR TRAFFIC SHALL BE MAINTAINED AND GUIDED USING APPROVED WARNING LIGHTS, SIGNING, AND DELINEATION DEVICES ON AT LEAST ONE SIDE OF THE PROJECT AT ALL TIMES THROUGHOUT THE PROJECT LIMITS. THE TRAVEL PATH SHALL BE A MINIMUM OF 4 FT. WIDE WITH A SMOOTH SURFACE THAT IS NOT SLICK AND IT SHOULD BE RAMPED AS NECESSARY FOR CONTINUITY. COST SHALL BE INCLUDED IN THE PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
42. THE CONTRACTOR SHALL FURNISH AND MAINTAIN VARIABLE MESSAGE SIGNS AS DIRECTED BY THE ENGINEER. MESSAGES FOR THE VMS SHALL BE AS DIRECTED BY THE ENGINEER. THE VMS SHALL BE IN PLACE ONE WEEK BEFORE THE START OF ANY WORK ITEMS AFFECTING THE EXISTING VEHICULAR AND PEDESTRIAN TRAFFIC. VMS INSTALLATION, OPERATION, AND REMOVAL TO BE INCLUDED IN THE PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
43. THE CONTRACTOR MUST PROVIDE FLASHING ARROW BOARD FOR ANY LANE THAT IS CLOSED OR DIVERTED.

**REVISIONS**

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|                | A.K.   |      |          | J.M.   |      |
|                | L.A.O. |      |          | L.A.O. |      |
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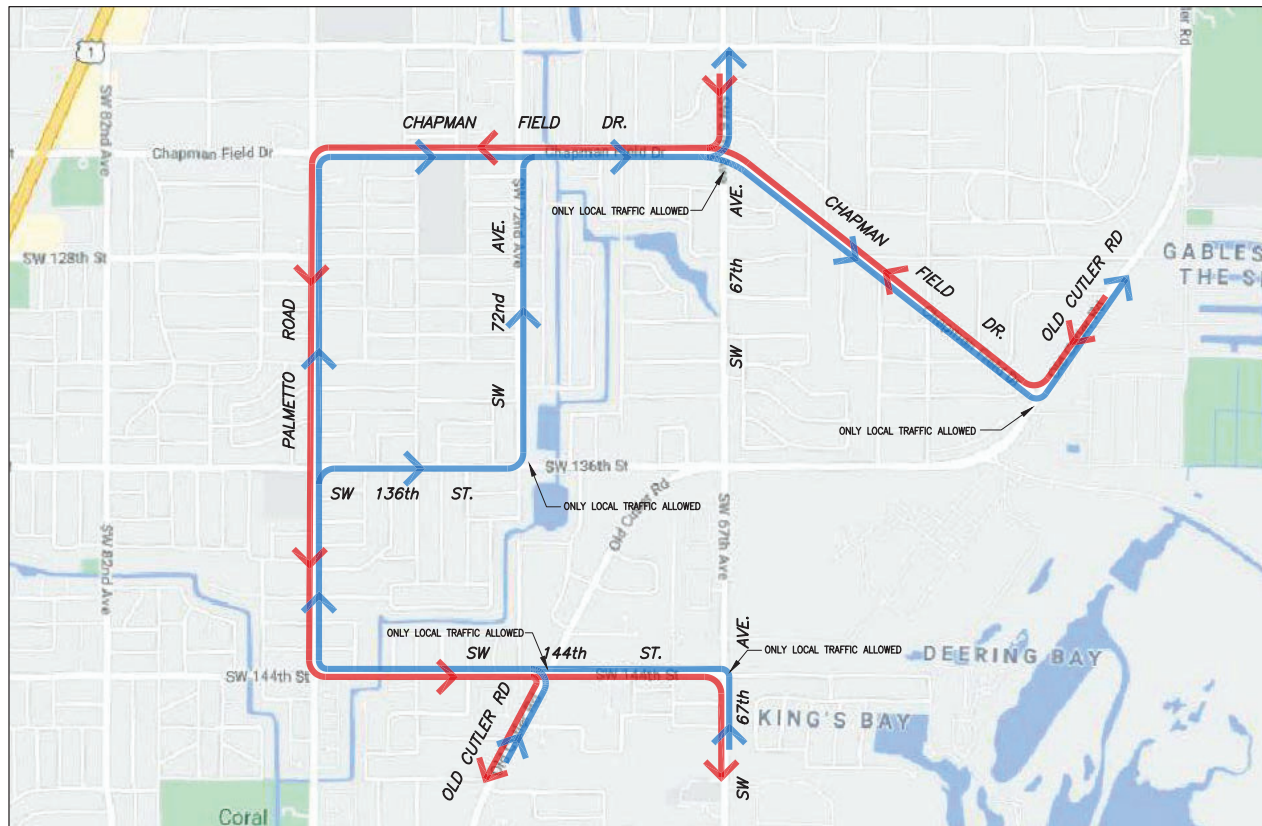
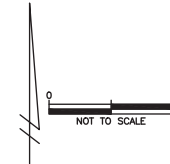
**MIAMI-DADE COUNTY**

**DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY DIVISION**

STEPHEN P. CLARK, CHIEF ENGINEER  
100 N.W. 107th Avenue  
MIAMI, FLORIDA 33158

**MAINTENANCE OF TRAFFIC GENERAL NOTES**

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| CHECKED BY     | L.A.O. |      | CHECKED BY | L.A.O. |      |
| SUPERVISED BY: |        |      |            |        |      |

**MIAMI-DADE COUNTY**

**DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
HIGHWAY DIVISION**

STEPHEN P. CLAY, CENTER  
100 N.W. 11th St.  
MIAMI, FLORIDA 33138

**MAINTENANCE OF TRAFFIC**

**SUMMARY OF QUANTITIES**

| PAY ITEM NO. | DESCRIPTION  | UNIT | SHEET NUMBER |       |       |       |       |       |       |       |       |       |       |       | TOTAL THIS SHEET |       | GRAND TOTAL |  |
|--------------|--|------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------------|-------|-------------|--|
|              |  |      | 45           |       | 46    |       | 47    |       | 48    |       | 49    |       | ORIG. | FINAL | ORIG.            | FINAL |             |  |
|              |  |      | ORIG.        | FINAL | ORIG. | FINAL | ORIG. | FINAL | ORIG. | FINAL | ORIG. | FINAL |       |       |                  |       |             |  |
| 700-1-11B    | SINGLE POST SIGN, F&I GROUND MOUNT (UP TO 12 SF.)                            | AS.  | 22           | 23    |       | 4     |       | 4     |       | 4     |       |       |       |       | 57               |       |             |  |
|              | D1-1d (STREET NAME SIGN)   | AS.  | 2            | 4     |       | 0     |       | 0     |       | 0     |       |       |       |       | 6                |       |             |  |
|              | D1-5 (ROUNDABOUT SIGN)   | AS.  | 1            | 1     |       | 1     |       | 1     |       | 1     |       |       |       |       | 5                |       |             |  |
|              | R1-2 (YIELD SIGN)  | AS.  | 4            | 8     |       | 0     |       | 0     |       | 0     |       |       |       |       | 12               |       |             |  |
|              | R6-4a (ROUNDABOUT DIRECTIONAL (3 CHEVRONS))                                  | AS.  | 3            | 4     |       | 0     |       | 0     |       | 0     |       |       |       |       | 7                |       |             |  |
|              | W2-6 (CIRCULAR INTERSECTION)   | AS.  | 3            | 1     |       | 1     |       | 1     |       | 1     |       |       |       |       | 7                |       |             |  |
|              | W11-2 (PEDESTRIAN CROSSING)  | AS.  | 1            | 1     |       | 1     |       | 1     |       | 0     |       |       |       |       | 4                |       |             |  |
|              | W11-15 (COMBINATION BIKE AND PEDESTRIAN CROSSING)                            | AS.  | 2            | 3     |       | 0     |       | 0     |       | 1     |       |       |       |       | 6                |       |             |  |
|              | W13-1P (ADVISORY SPEED)  | AS.  | 3            | 1     |       | 1     |       | 1     |       | 1     |       |       |       |       | 7                |       |             |  |
|              | W14-2 (NO OUTLET)  | AS.  | 1            | 0     |       | 0     |       | 0     |       | 0     |       |       |       |       | 1                |       |             |  |
|              | W16-7P(L) (DOWNWARD DIAGONAL ARROW)  | AS.  | 3            | 4     |       | 1     |       | 1     |       | 1     |       |       |       |       | 10               |       |             |  |
|              | OM1-1 (TYPE 1 OBJECT MARKER)   | AS.  | 3            | 1     |       | 0     |       | 1     |       | 1     |       |       |       |       | 6                |       |             |  |
| 700-3-501    | SIGN PANEL, RELOCATE, UP TO 12 SF.   | EA.  | 4            | 6     |       | 0     |       | 3     |       | 0     |       |       |       |       | 13               |       |             |  |
| 700-1-60     | SINGLE POST SIGN, REMOVE.  | AS.  | 4            | 1     |       | 0     |       | 0     |       | 0     |       |       |       |       | 5                |       |             |  |
| 706-1-12A    | MARKER PAVEMENT RETRO-REFLECTIVE (YELLOW / YELLOW)                           | EA.  | 78           | 38    |       | 36    |       | 55    |       | 50    |       |       |       |       | 257              |       |             |  |
| 706-1-12B    | MARKER PAVEMENT RETRO-REFLECTIVE (WHITE / RED)                               | EA.  | 19           | 34    |       | 26    |       | 34    |       | 31    |       |       |       |       | 144              |       |             |  |
| 711-11-141B  | THERMOPLASTIC (WHITE) (6"-10'/30' SKIP)                                      | LF.  | 460          | 301   |       | 113   |       | 411   |       | 239   |       |       |       |       | 1,524            |       |             |  |
| 711-11-170   | THERMOPLASTIC (WHITE) (ARROWS)   | EA.  | 17           | 12    |       | 4     |       | 4     |       | 4     |       |       |       |       | 41               |       |             |  |
| 711-11-160   | THERMOPLASTIC (WHITE) (MESSAGE)  | EA.  | 7            | 8     |       | 0     |       | 0     |       | 0     |       |       |       |       | 15               |       |             |  |
| 711-11-160A  | PAVEMENT MESSAGE (PAINT) FOR BIKE LANE                                       | EA.  | -            | -     |       | -     |       | -     |       | -     |       |       |       |       | -                |       |             |  |
| 711-11-141   | THERMOPLASTIC (WHITE) (6"-4'/2' SKIP)  | LF.  | 191          | 405   |       | 0     |       | 0     |       | 0     |       |       |       |       | 596              |       |             |  |
| 711-11-121   | THERMOPLASTIC (WHITE) (SOLID) (6")   | LF.  | 2,444        | 2,224 |       | 1,398 |       | 1,694 |       | 1,477 |       |       |       |       | 9,237            |       |             |  |
| 711-11-123   | THERMOPLASTIC (WHITE) (SOLID) (12")  | LF.  | 157          | 270   |       | 44    |       | 0     |       | 0     |       |       |       |       | 471              |       |             |  |
| 711-11-124   | THERMOPLASTIC (WHITE) (SOLID) (18")  | LF.  | 63           | 132   |       | 110   |       | 124   |       | 151   |       |       |       |       | 580              |       |             |  |
| 711-11-125   | THERMOPLASTIC (WHITE) (SOLID) (24")  | LF.  | 140          | 320   |       | 0     |       | 0     |       | 0     |       |       |       |       | 460              |       |             |  |
| 711-11-221   | THERMOPLASTIC (YELLOW) (SOLID) (6")  | LF.  | 2,367        | 1,287 |       | 1,046 |       | 1,435 |       | 1,838 |       |       |       |       | 7,973            |       |             |  |
| 711-11-224   | THERMOPLASTIC (YELLOW) (SOLID) (18")   | LF.  | 138          | 18    |       | 16    |       | 41    |       | 32    |       |       |       |       | 245              |       |             |  |
| 711-1A       | SKIP TRAFFIC STRIPE (10' STRIPE 30' SPACE) (6" WIDE) (YELLOW, THERMOPLASTIC) | LF.  | 0            | 300   |       | 300   |       | 344   |       | 0     |       |       |       |       | 944              |       |             |  |
| 711-16-231   | THERMOPLASTIC (YELLOW) (3'-9" SKIP) (6")                                     | LF.  | 520          | 0     |       | 0     |       | 0     |       | 754   |       |       |       |       | 1,274            |       |             |  |
| 711-14-160   | BIKE, THERMOPLASTIC, PREFORMED, WHITE, BICYCLE MESSAGE AND ARROW             | EA.  | 4            | 0     |       | 0     |       | 0     |       | 2     |       |       |       |       | 6                |       |             |  |

- NOTES**
- ALL SIGNING AND PAVEMENT MARKINGS SHALL CONFORM WITH THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS.
  - ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE SPECIFIED. BEFORE STARTING THE PROJECT, THE CONTRACTOR WILL REVIEW EXISTING SIGNS SHOWN ON THE PLANS TO BE RELOCATED OR TO REMAIN. THE CONTRACTOR WILL NOTIFY IN WRITING TO THE PROJECT ENGINEER OF ANY MISSING SIGNS BEFORE CONSTRUCTION STARTS. SIGNS DAMAGED BY THE CONTRACTOR'S OPERATIONS WILL BE REPLACED AT NO COST TO THE DEPARTMENT. IF EXISTING SIGNS TO BE RELOCATED HAVE A DAMAGED POLE OR A POLE NOT MEETING HEIGHT SPECIFICATION REQUIREMENTS, THE COST OF A NEW POLE WILL BE INCLUDED IN THE RELOCATION BID ITEM.
  - ALL PAVEMENT MARKINGS, MESSAGES, AND ARROWS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
  - REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED ALONG THE ENTIRE LENGTH OF THE PROJECT.
  - MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND AT THE END OF THE PROJECT AND AT ALL SIDE STREETS WITHOUT JOGS OR OFFSETS.
  - THE CONTRACTOR SHALL REMOVE EXISTING MARKINGS BY FDOT APPROVED METHOD WITHOUT DAMAGE TO THE FRICTION COURSE.
  - SIGN ASSEMBLY LOCATIONS SHOWN ON PLANS WHICH ARE IN CONFLICT WITH LIGHTING, UTILITIES, DRIVEWAYS, WHEELCHAIR RAMPS, ETC. MAY BE ADJUSTED SLIGHTLY AS DIRECTED BY THE ENGINEER. EXTREME LOCATION CHANGES MUST BE APPROVED BY MIAMI-DADE SIGNALS AND SIGNS DIVISION.
  - THE CONTRACTOR SHALL RELOCATE ALL EXISTING POST-MOUNTED STREET NAME AND STOP SIGNS TO A VISIBLE AREA UNDISTURBED BY THE CONSTRUCTION SO AS TO MINIMIZE DAMAGE TO THE SIGNS. NEW STREET NAME SIGNS WILL BE ATTACHED AT THE TOP OF THE NEW STOP SIGNS ON MINOR SIDE STREETS AT THE END OF CONSTRUCTION.
  - THE CONTRACTOR SHALL INSTALL ADVANCED WARNING SIGNS W3-1 (STOP AHEAD) AND W3-3A (SIGNAL AHEAD) ON RESPECTIVE SIDE STREETS ACCORDING TO STANDARDS AS DIRECTED BY THE ENGINEER.
  - EXTRUDED ALUMINUM SIGN SUPPORT CLAMPS ARE NOT ACCEPTABLE. ALL RELOCATED SIGNS MUST COMPLY WITH THE DESIGN STANDARDS AS IF THEY WERE NEW SIGNS. IF EXISTING CLAMPS, BRACKETS, POLES, ETC. NEED TO BE REPLACED THE COST SHALL BE INCLUDED IN THE RELOCATION PAY ITEM.
  - ANY SIGNING MATERIALS, INCLUDING SUPPORTS, TO BE REMOVED AS NOTED ON PLAN SHEETS, SHALL BE DELIVERED BY THE CONTRACTOR IN EXISTING CONDITION IN CARE OF THE STOREKEEPER AT THE MIAMI-DADE COUNTY MAINTENANCE YARD, 7100 NW 36 STREET, MIAMI, FL 33166.
  - SCHOOL CROSSING SIGNAGE AND SCHOOL SPEED ZONE SIGNAGE TO CONFORM WITH MUTCD/FDOT STANDARDS (FLUORESCENT YELLOW-GREEN BACKGROUNDS).
  - REFLECTIVE PAVEMENT MARKERS AS PER FDOT STANDARD INDEX NO 17352.
  - PAY ITEM # 711-14-160 INCLUDES, BIKE, PED AND ARROW.

**REVISIONS**

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|------|----|-------------|------|----|-------------|
|      |    |             |      |    |             |

| DESIGNED BY   | NAME | DATE      | DRAWN BY   | NAME | DATE      |
|---------------|------|-----------|------------|------|-----------|
|               | A.S. | 2/14/2022 | J.M.       |      | 2/14/2022 |
| CHECKED BY    | L.O. | 2/14/2022 | CHECKED BY | L.O. | 2/14/2022 |
| SUPERVISED BY |      |           |            |      |           |



**SIGNING & PAVEMENT MARKINGS**  
**SUMMARY OF QUANTITIES**

NOT SUBDIVIDED  
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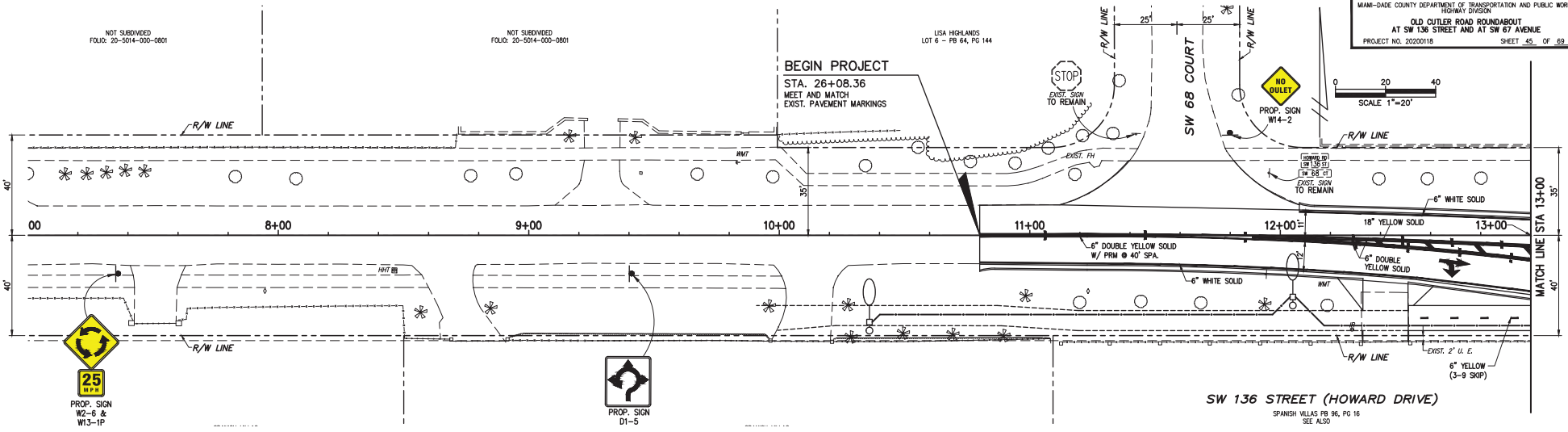
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LISA HIGHLANDS  
LOT 6 - PB 64, PG 144

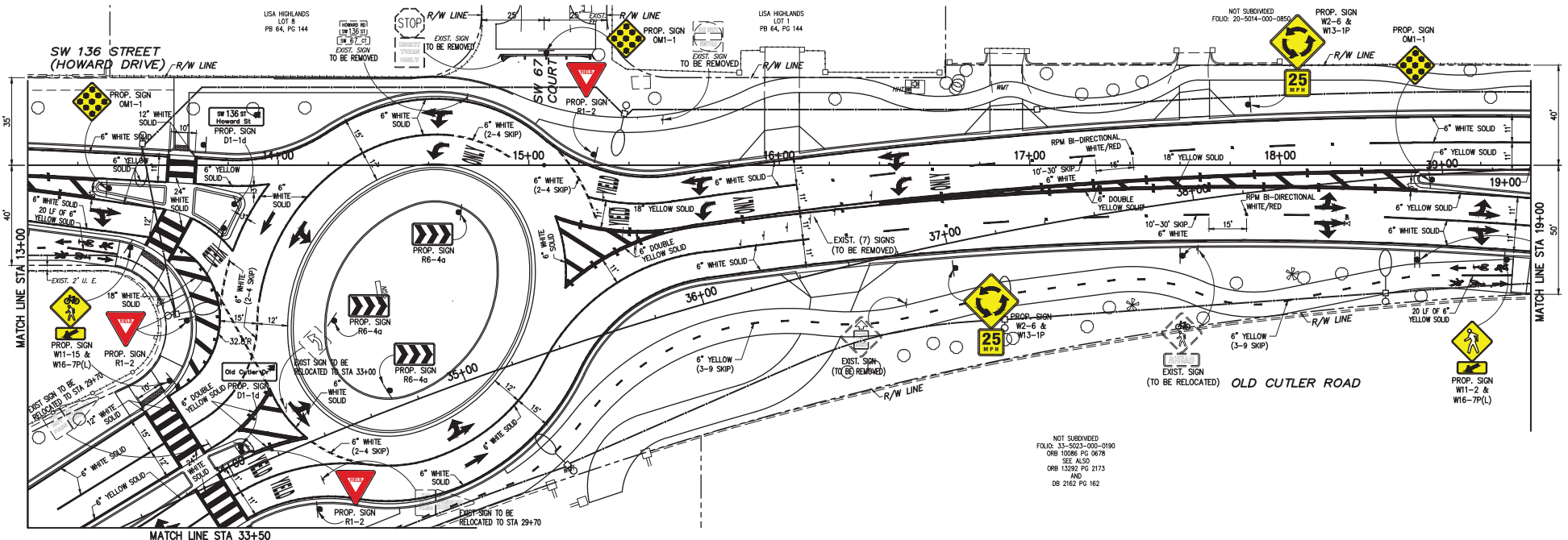
MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
HIGHWAY DIVISION  
OLD CUTLER ROAD ROUNDABOUT  
AT SW 136 STREET AND AT SW 67 AVENUE  
PROJECT NO. 20220118 SHEET 65 OF 69

BEGIN PROJECT  
STA. 26+08.36  
MEET AND MATCH  
EXIST. PAVEMENT MARKINGS

SCALE 1"=20'



SW 136 STREET (HOWARD DRIVE)  
SPANISH VILLAS PB 96, PG 16  
SEE ALSO



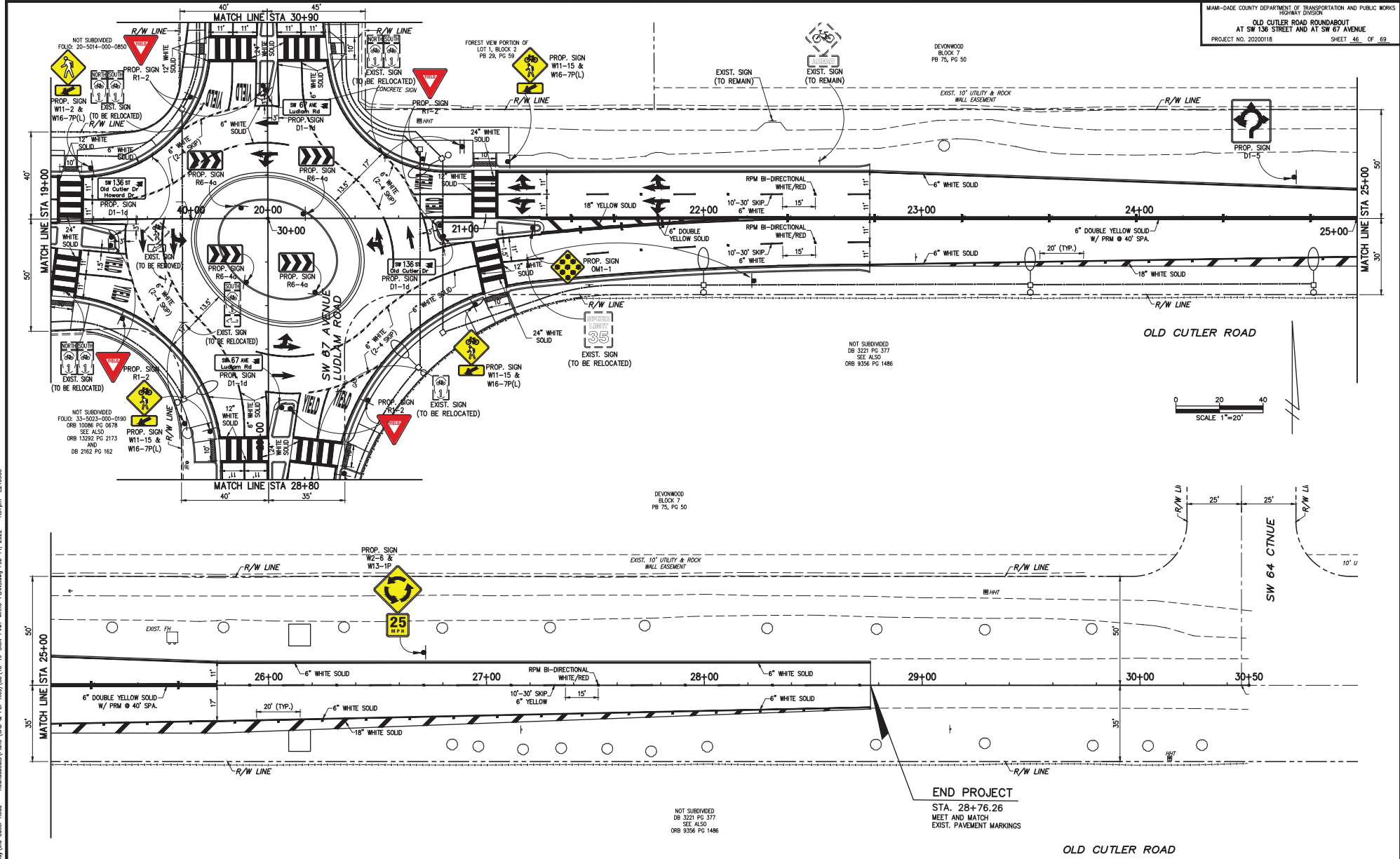
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ORB 10086 PG 0878  
ORB 13292 PG 2173  
AND  
DB 2162 PG 162

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| REVISIONS |    |             |      |    |             |
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| DATE      | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|           |    |             |      |    |             |

| DESIGNED BY    | NAME   | DATE | DRAWN BY   | NAME   | DATE |
|----------------|--------|------|------------|--------|------|
|                | A.K.   |      |            | J.M.   |      |
| CHECKED BY     | L.A.O. |      | CHECKED BY | L.A.O. |      |
| SUPERVISED BY: |        |      |            |        |      |

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
HIGHWAY DIVISION  
**MIAMI-DADE COUNTY**  
SIGNING AND MARKING PLAN



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| REVISIONS |    |             |      |    |             |
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|           |    |             |      |    |             |
|           |    |             |      |    |             |

| DESIGNED BY    | NAME   | DATE | DRAWN BY   | NAME   | DATE |
|----------------|--------|------|------------|--------|------|
|                | A.K.   |      |            | J.M.   |      |
| CHECKED BY     | L.A.O. |      | CHECKED BY | L.A.O. |      |
| SUPERVISED BY: |        |      |            |        |      |

**MIAMI-DADE COUNTY**

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION

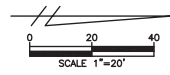
STEPHEN P. CLARK, CENTER  
 100 N.W. 11<sup>th</sup> ST.  
 MIAMI, FLORIDA 33138

**SIGNING AND MARKING PLAN**

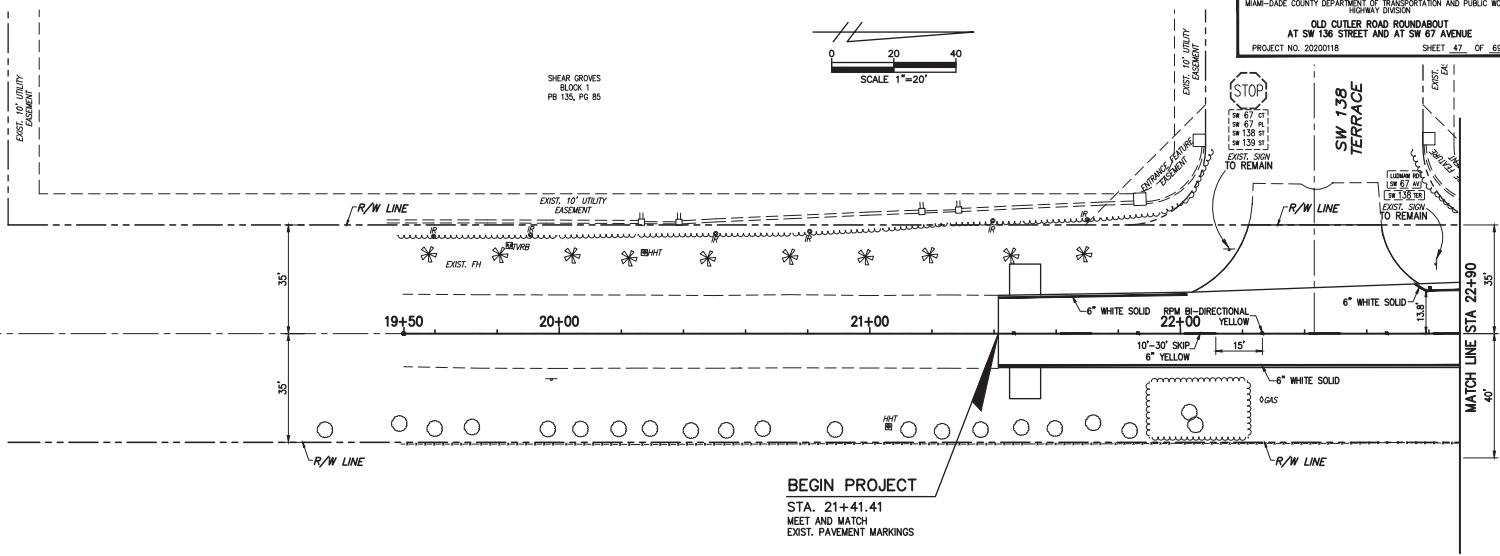
END PROJECT  
 STA. 28+76.26  
 MEET AND MATCH  
 EXIST. PAVEMENT MARKINGS

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MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
HIGHWAY DIVISION  
OLD CUTLER ROAD ROUNDABOUT  
AT SW 136 STREET AND AT SW 67 AVENUE  
PROJECT NO. 20220118 SHEET 47 OF 69



SHEAR GROVES  
BLOCK 1  
PB 135, PG 85

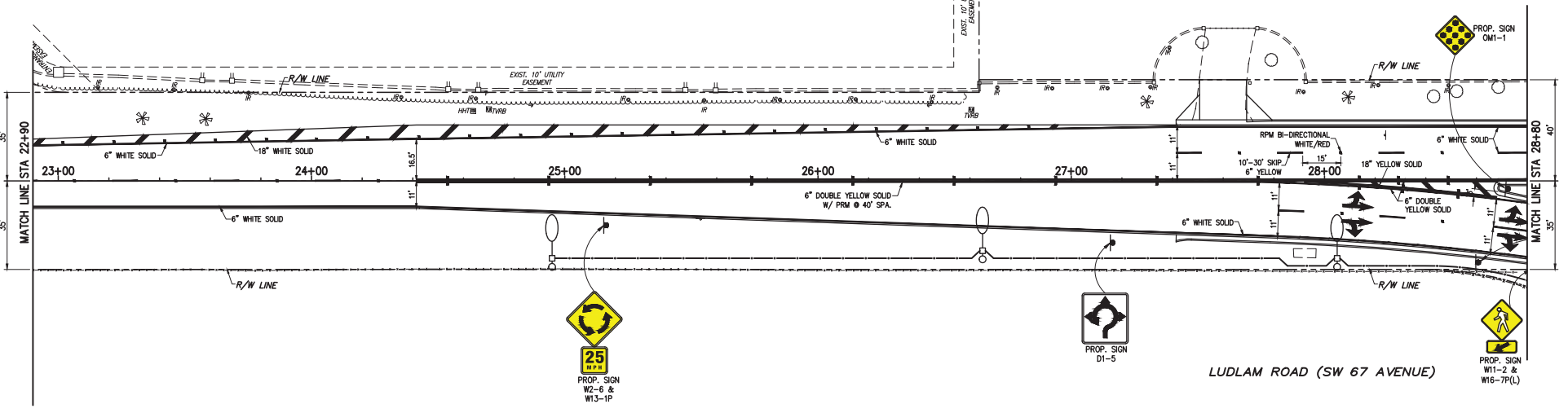


**BEGIN PROJECT**  
STA. 21+41.41  
MEET AND MATCH  
EXIST. PAVEMENT MARKINGS

LUDLAM ROAD (SW 67 AVENUE)

SHEAR GROVES  
BLOCK 1  
PB 135, PG 85

NOT SUBDIVIDED  
FOLIO 33-5053-000-0190  
ORB 10096 PG 0678  
SEE ALSO  
ORB 13222 PG 2173  
AND  
DB 2162 PG 162



LUDLAM ROAD (SW 67 AVENUE)

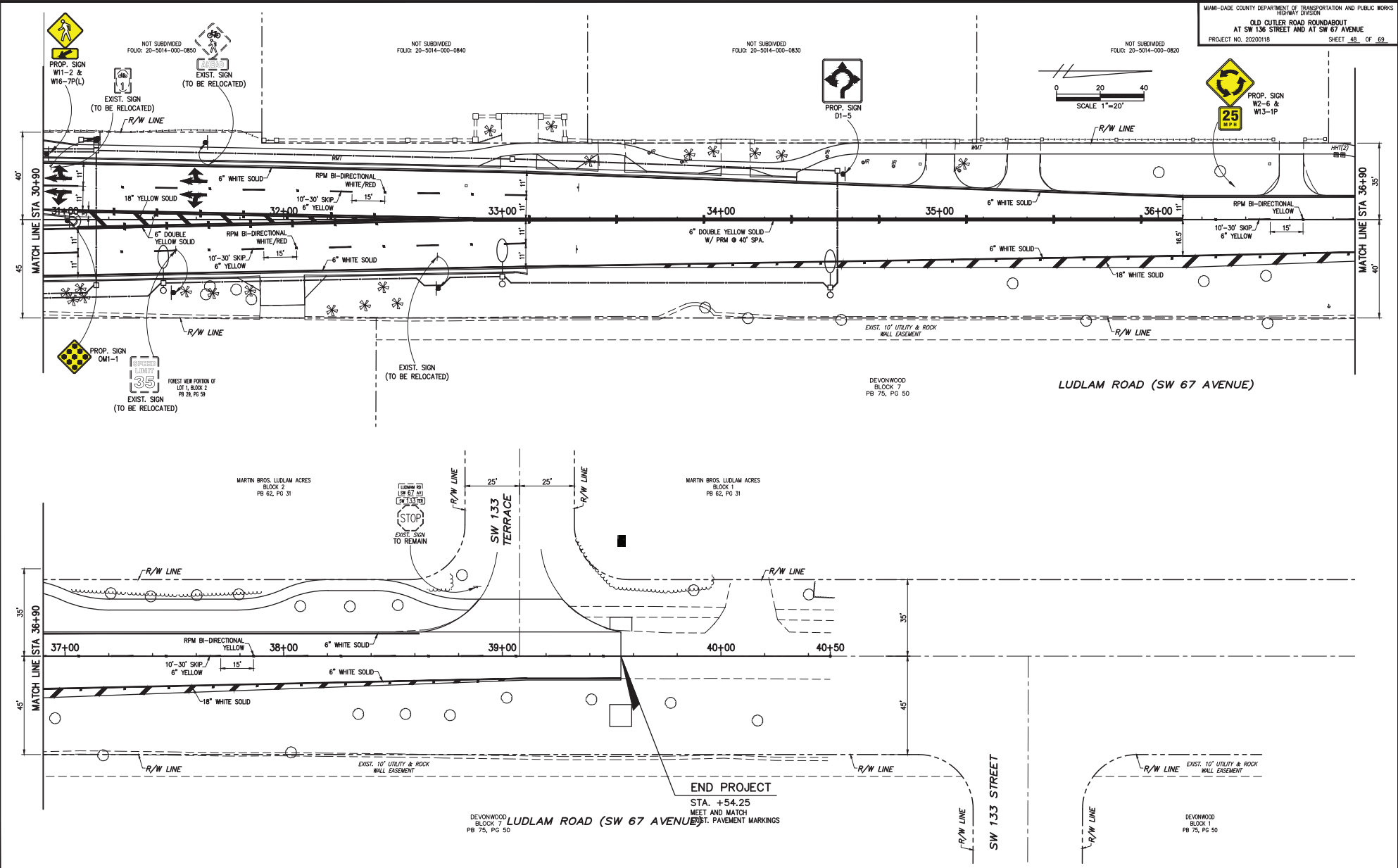
REVISIONS

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
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| DESIGNED BY    | NAME   | DATE | DRAWN BY   | NAME   | DATE |
|----------------|--------|------|------------|--------|------|
|                | A.K.   |      |            | J.M.   |      |
| CHECKED BY     | L.A.O. |      | CHECKED BY | L.A.O. |      |
| SUPERVISED BY: |        |      |            |        |      |

MIAMI-DADE COUNTY  
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
HIGHWAY DIVISION  
STEPHEN P. CLARK CENTER  
12500 N.W. 57th ST  
MIAMI, FLORIDA 33158

SIGNING AND MARKING PLAN



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| REVISIONS |    |             |      |    |             |
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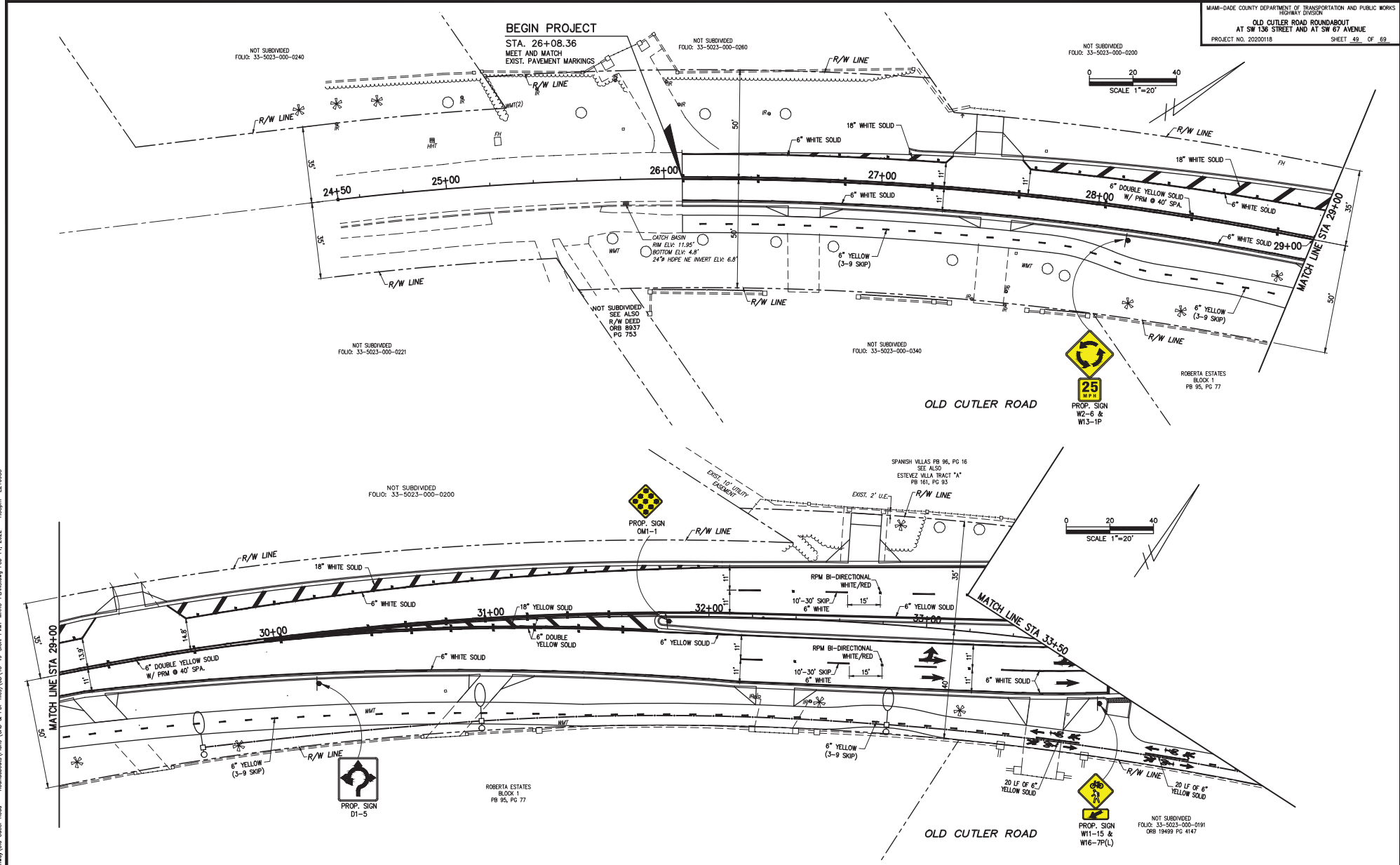
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| DESIGNED BY: A.M.  | NAME: A.M.   | DATE: | DRAWN BY: J.M.     | NAME: J.M.   | DATE: |
| CHECKED BY: L.A.O. | NAME: L.A.O. | DATE: | CHECKED BY: L.A.O. | NAME: L.A.O. | DATE: |
| SUPERVISED BY:     |              |       |                    |              |       |

**MIAMI-DADE COUNTY**

**DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
HIGHWAY DIVISION**

STEPHEN P. CLARK, CENTER FOR THE CITY OF MIAMI, FLORIDA 33138

**SIGNING AND MARKING PLAN**



REVISIONS

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|------|----|-------------|------|----|-------------|
|      |    |             |      |    |             |
|      |    |             |      |    |             |

| DESIGNED BY    | NAME   | DATE | DRAWN BY   | NAME   | DATE |
|----------------|--------|------|------------|--------|------|
| A.K.           |        |      | J.M.       |        |      |
| CHECKED BY     | L.A.O. |      | CHECKED BY | L.A.O. |      |
| SUPERVISED BY: |        |      |            |        |      |

**MIAMI-DADE COUNTY**

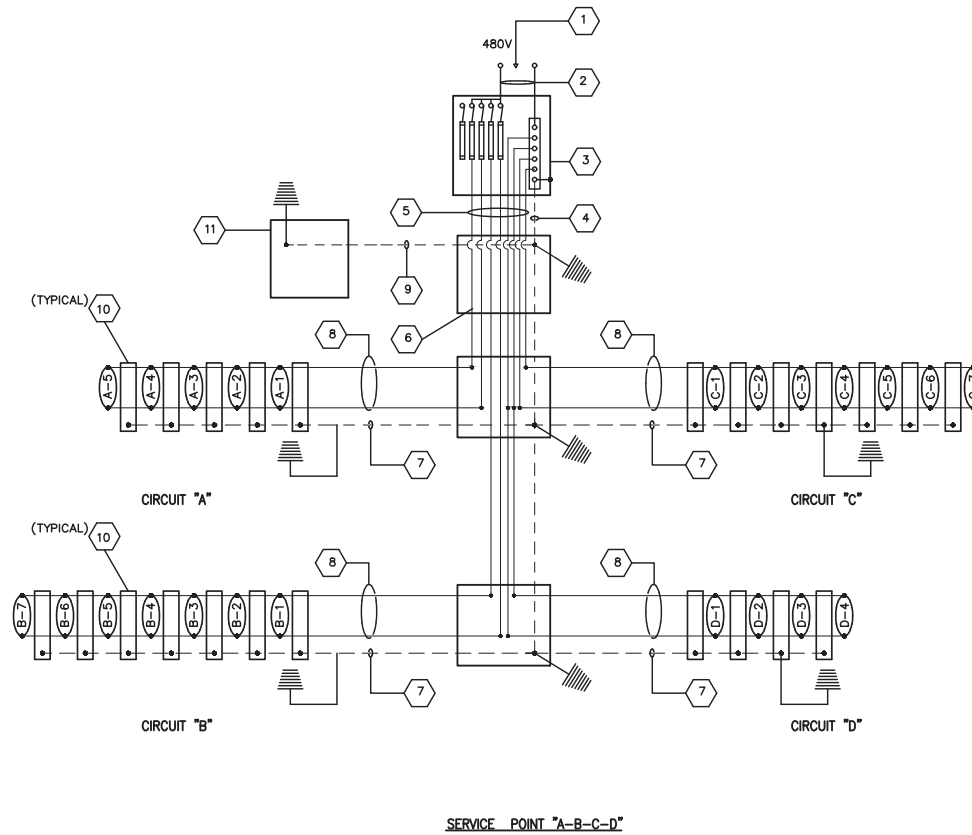
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
 ROBERTA E. CLARK CENTER  
 1000 N.W. 25th St.  
 MIAMI, FLORIDA 33128

**SIGNING AND MARKING PLAN**

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**CODED NOTES FOR WIRING SCHEMATICS**

- 1 POWER COMPANY TO SUPPLY 480 V. TO GROUND INCOMING SERVICE, AND THE CONTRACTOR SHALL PROVIDE THE SUPPORTING CONCRETE POLE.
- 2 -# 6 AWG RHH-RHW2/XLP STRANDED CU. WIRES (LEAVE 10'-0" SLACK TO BE CONNECTED TO POWER COMPANY SERVICE), IN 2" GALV. RIGID STEEL CONDUIT SURFACE MOUNTED ON SERVICE POLE.
- 3 600 V. NEMA TYPE 4X SAFETY SWITCH 60 AMP., 3 POLE WITH SOLID NEUTRAL BUS BAR, DUSTTIGHT, WATERTIGHT, STAINLESS STEEL ENCLOSURE WITH LOCKABLE COVER, EXTERNAL HANDLE SHALL BE LOCKABLE IN THE "ON" AND "OFF" POSITION MOUNTED ON POLE FACE OPPOSITE ONCOMING TRAFFIC, SWITCH BOX, BARE BOND WIRE, SOLID NEUTRAL BUS BAR AND INCOMING NEUTRAL WIRE CONNECTED TOGETHER AND GROUNDED IN EARTH WITH 5/8" DIA.X 20'-0" LONG GROUND ROD IN PULL BOX AT SERVICE POINT(S). (DO NOT GROUND NEUTRAL WIRE AT ANY OTHER LOCATION).
- 4 1 - # 6 AWG RHH-RHW2-XLP STRANDED CU. GROUND WIRE IN 1/2" GALV. RIGID STEEL CONDUIT SURFACE MOUNTED ON SERVICE POLE.
- 5 4 - # 6 AWG RHH-RHW/XLP STRANDED CU. WIRES(CIRCUITS TO BE COLOR CODED BY INSULATION) IN 2" GALV. RIGID STEEL CONDUIT SURFACE MOUNTED ON SERVICE POLE.
- 6 PULL BOX AT BASE OF SERVICE POLE
- 7 1 - # 6 AWG RHH-RHW2-XLP GREEN STRANDED CU. GROUND WIRE RUNNING IN THE SAME CONDUIT AS 8 AND 9.
- 8 2 - # 6 AWG RHH-RHW2-XLP STRANDED CU. WIRES (CONDUITS TO BE COLOR CODED BY INSULATION) IN 2" PVC (SCHEDULE 40) CONDUIT.
- 9 1 - # 6 AWG RHH-RHW2-XLP GREEN STRANDED CU. WIRES (CONDUITS TO BE COLOR CODED BY INSULATION) IN 2" PVC (SCHEDULE 40) CONDUIT.
- 10 PULL BOX
- 11 GROUND ROD (AT ALL POLES AND PULL BOXES).

**SERVICE POINT "A-B-C-D"**

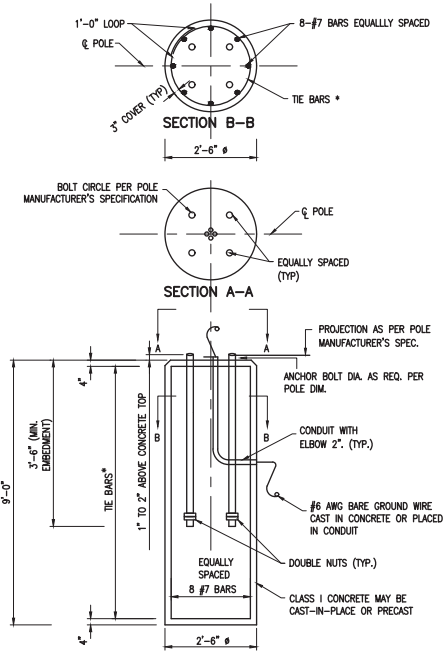
**REVISIONS**

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
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|      |    |             |      |    |             |

| DESIGNED BY | NAME   | DATE      | DRAWN BY | NAME   | DATE      |
|-------------|--------|-----------|----------|--------|-----------|
| A.S.        | A.S.   | 2/14/2022 | J.M.     | J.M.   | 2/14/2022 |
|             | L.A.O. | 2/14/2022 |          | L.A.O. | 2/14/2022 |

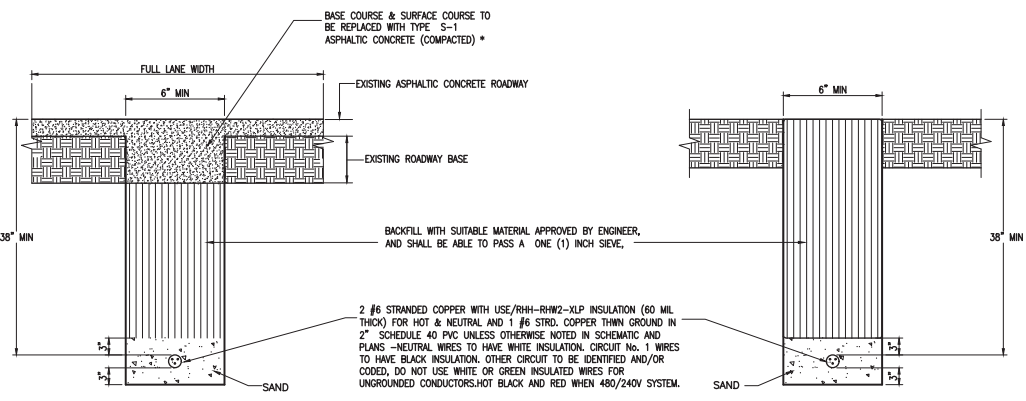
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
HIGHWAY DIVISION  
**MIAMI-DADE COUNTY**

**WIRING SCHEMATIC**



\* #4 TIE BARS @ 12" CENTERS (MAX.) OR D10 (OR W10) SPIRAL @ 6" PITCH, 3 FLAT TURNS TOP AND 1 FLAT TURN BOTTOM.

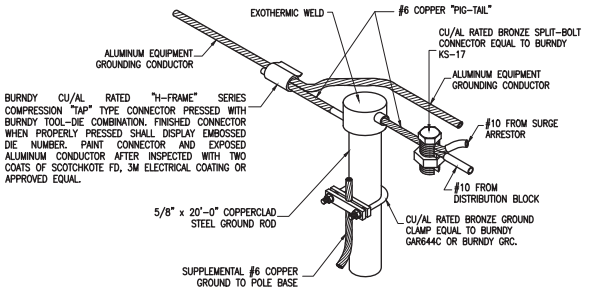
**FDOT INDEX 17515 - 150 MPH BASE DETAIL**  
N.T.S.



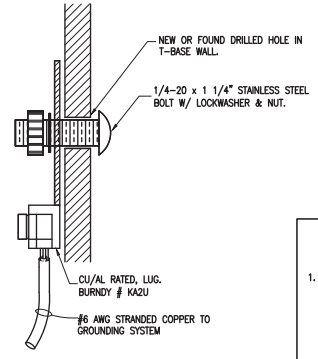
**TRENCH DETAIL (ROAD)**  
N.T.S.

\* IF IN THE OPINION OF THE ENGINEER, APPRECIABLE SETTLEMENT OCCURS DURING THE ONE YEAR GUARANTEE PERIOD, THE CONTRACTOR WILL BE REQUIRED TO RESTORE THE AREA OF CUT TO ADJACENT ROADWAY ELEVATION. SEE TRAFFIC CONTROL EQUIPMENT SPECIFICATIONS AND STANDARDS FOR THE WTCMDC.

**TRENCH DETAIL (SWALE)**  
N.T.S.



**CABLE TO GROUND ROD DETAIL**  
N.T.S.

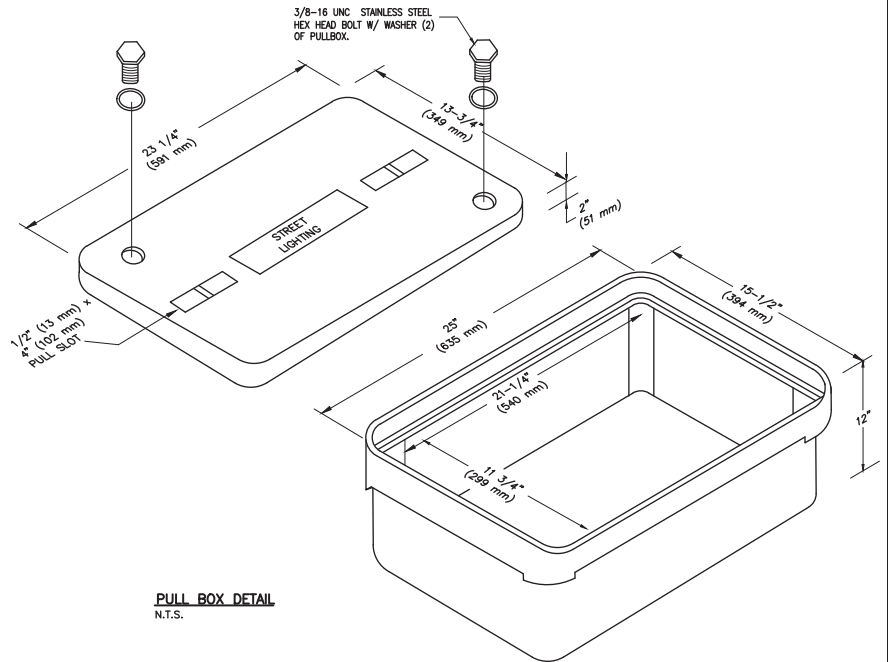


**GROUND LUG DETAIL (COPPER WIRE FOR GROUNDING)**  
N.T.S.

THESE DRAWINGS DEPICT PREFERRED INSTALLATION METHODS OR SOLUTION FOR STANDARD JOB CONDITIONS. PROJECT ENGINEER SHALL EVALUATE SPECIFIC JOB REQUIREMENTS BEFORE APPLYING ANY OF THESE DETAILS, AND SHALL PROVIDE ADDITIONAL DETAILS ON SEPARATE SHEETS TO SUIT JOB CONDITIONS.

**PULL BOX SPECIFICATION.**

- ALL STREET LIGHT PULLBOXES SHALL HAVE AN OPEN-BOTTOM, QUARTZITE POLYMER CONCRETE DESIGN OR PRECAST CONCRETE DESIGN CONSTRUCTED OF CLASS 1 CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT TWENTY-EIGHT (28) DAYS. POLYMER CONCRETE PULLBOX SHALL BE QUARTZITE PRODUCT NO. P513248A12 OR APPROVED EQUIVALENT. CONCRETE PULLBOX SHALL BE BROOKS 38 SERIES OR APPROVED EQUIVALENT. IN EITHER CASE, BOTH PULLBOXES SHALL BE CONSTRUCTED PER ABOVE SPECIFIED MANUFACTURERS SIZE, MATERIALS AND PERFORMANCE SPECIFICATIONS. THEREFORE, BELOW SPECIFIED PULLBOX COVER SHALL BE FULLY INTER-CHANGEABLE WITH EITHER PULLBOX. ALL PULLBOX COVERS FURNISHED AND INSTALLED SHALL BE POLYMER CONCRETE QUARTZITE PRODUCT NO. P513248A12 OR APPROVED EQUIVALENT. NO OTHER DESIGN, SIZE, MODIFICATION OR MATERIALS SHALL BE ACCEPTABLE. PULLBOX COVERS SHALL BE MARKED "STREET LIGHTING" OR "ELECTRIC/ MIAMI-DADE HD".
- IN SITUATIONS WHERE PULLBOX IS LOCATED OUTSIDE OF SIDEWALK, I.E. SWALE AREA, THE PULLBOX IS TO HAVE A 6"x5" MIN CONCRETE APRON (6" THICK) PLACED AROUND IT. COST OF CONCRETE APRON IS TO BE INCLUDED IN THE PULLBOX INSTALLATION COST.



**PULL BOX DETAIL**  
N.T.S.

| REVISIONS |    |             |      |    |             |
|-----------|----|-------------|------|----|-------------|
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|           |    |             |      |    |             |

| DESIGNED BY | NAME | DATE | DRAWN BY | NAME | DATE |
|-------------|------|------|----------|------|------|
| A.K.        |      |      | J.M.     |      |      |
| L.A.O.      |      |      | L.A.O.   |      |      |

SUPERVISED BY:  

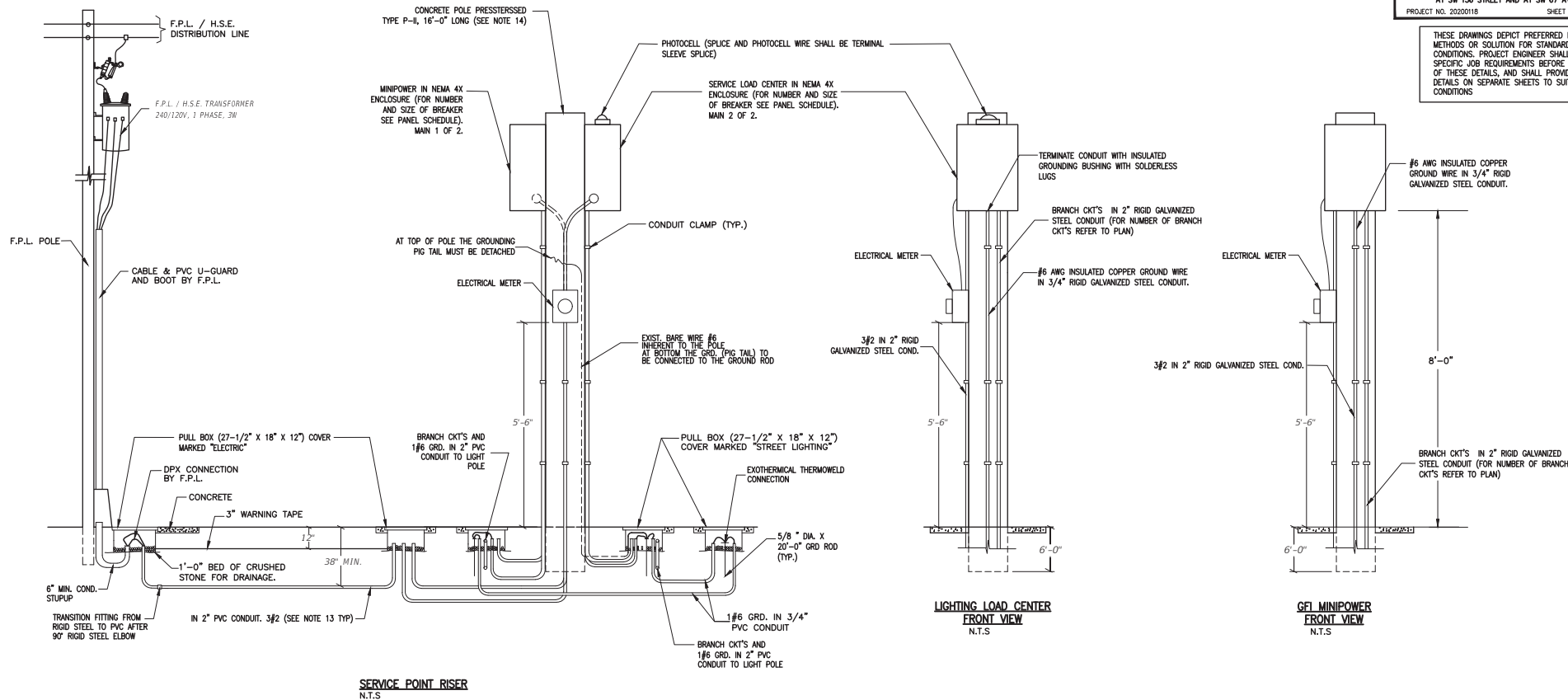
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
HIGHWAY DIVISION  
**MIAMI-DADE COUNTY**  
SEPHIA S. CLARK, CHIEF ENGINEER  
100 N.W. 117 MIAMI, FLORIDA 33138

MISCELLANEOUS DETAILS 1

SHEET

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THESE DRAWINGS DEPICT PREFERRED INSTALLATION METHODS OR SOLUTION FOR STANDARD JOB CONDITIONS. PROJECT ENGINEER SHALL EVALUATE SPECIFIC JOB REQUIREMENTS BEFORE APPLYING ANY OF THESE DETAILS, AND SHALL PROVIDE ADDITIONAL DETAILS ON SEPARATE SHEETS TO SUIT JOB CONDITIONS



NOTES:

1. THE ENCLOSURE SHALL BE NEMA 4X (STAINLESS STEEL), POLE MOUNTED, RIGIDLY ATTACHED TO THE POLE FACE.
2. THE ENCLOSURE DOOR SHALL BE SECURED BY LOCKABLE LATCH. THE DOOR SHALL HAVE A MINIMUM OF THREE HINGES AND BE LATCHABLE. NO SCREWS TO BE USED TO ATTACH DOOR.
3. 480V MINIMUM RATING BOLT IN TYPE BREAKERS SHALL BE USED.
4. A 600V LIGHTNING PROTECTOR SHALL BE WIRED OUTSIDE THE ENCLOSURE.
5. A MAIN BREAKER IS REQUIRED IN ALL SERVICE PANELS WITH 2 OR MORE FEEDER BREAKERS.
6. ALL SERVICE EQUIPMENT SHALL BE U.L. APPROVED.
7. BUS BAR TO BE COPPER COATED AND HAVE A MINIMUM RATING OF 100 AMPS. WHEN MAIN BREAKER EXCEEDS 100 AMPS BUSBAR TO MATCH BREAKER AMPERAGE.
8. LOCATE CONTRACTOR, TRANSFORMER, AND H.O.A. SWITCH INSIDE ENCLOSURE. THE ENCLOSURE TO BE SIZED TO ACCOMMODATE AS MANY BREAKERS AS CALLED FOR AND ALL OTHER SERVICE EQUIPMENT.
9. THE ENCLOSURE TO BE RIGIDLY ATTACHED TO THE POLE FACE.
10. CONTRACTOR SHALL COORDINATE WITH F.P.L. / H.S.E. ENGINEERS FOR THE INSTALLATION OF THE F.P.L. / H.S.E. RISER WHICH INCLUDES A CONNECTION FEE. (THIS FEE SHALL BE INCLUDED IN BID ITEM 715-7-11) THIS LAYOUT HAVE BEEN APPROVED BY THE MAINTENANCE AGENCY (MIAMI-DADE COUNTY AND F.D.O.T. DISTRICT SIX)
11. ALL GROUND ROD SHALL BE INTERCONNECTED (USING #6 GROUND WIRE).
12. PROVIDE SUPPLEMENTARY GROUND ELECTRODE SPACE AT LEAST 6FT (AS PER N.E.C., MIAMI-DADE COUNTY AND F.D.O.T. DISTRICT SIX REQUIREMENT).
13. ALL CONDUCTOR SHALL BE TYPE RHH, RHW2, XLP. (OTHER TYPE OF CONDUCTOR IS NOT ALLOWED. EXCEPT GROUND WIRE WHICH SHALL BE TYPE THWN).
14. CONTRACTOR SHALL SUBMIT STRUCTURAL CALCULATIONS OF THE POLE, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER.
15. AFTER OPENING THE PANEL, THE PANEL BOARD SHALL HAVE A DEAD FRONT COVER FOR THE PURPOSE OF COVERING ALL THE WIRING AND EXPOSING ONLY THE BUTTONS OF THE BREAKERS; IN COMPLIANCE WITH THE N.E.C.
16. ALL WIRES EXTERNAL TO CONTROL CABINET TO BE TERMINATED TO A TERMINAL.
17. WIRES END WITHIN CABINET TO BE IDENTIFIED WITH WIRE MARKERS.
18. DESIGNATES TERMINAL FOR CUSTOMER CONNECTIONS.

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| REVISIONS |    |             |      |    |             | DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY DIVISION |      |          |      |
|-----------|----|-------------|------|----|-------------|--|------|----------|------|
| DATE      | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DESIGNED BY  | DATE | DRAWN BY | DATE |
|           |    |             |      |    |             | A.K.   |      | J.M.     |      |
|           |    |             |      |    |             | L.A.O.   |      | L.A.O.   |      |
|           |    |             |      |    |             |  |      |          |      |

**MIAMI-DADE COUNTY**

**DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY DIVISION**  
STEPHEN P. CLARK CENTER  
1300 N.W. 25th ST.  
MIAMI, FLORIDA 33128

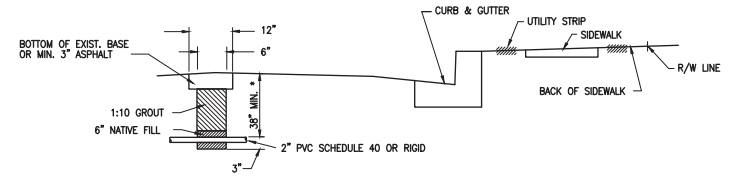
**STREET LIGHTING/GFI SERVICE POINT DETAIL 1**

THESE DRAWINGS DEPICT PREFERRED INSTALLATION METHODS OR SOLUTION FOR STANDARD JOB CONDITIONS. PROJECT ENGINEER SHALL EVALUATE SPECIFIC JOB REQUIREMENTS BEFORE APPLYING ANY OF THESE DETAILS, AND SHALL PROVIDE ADDITIONAL DETAILS ON SEPARATE SHEETS TO SUIT JOB CONDITIONS

**1** OPTION

**SECTION**

**CONDUIT BURIED WHEN CROSSING ROAD**

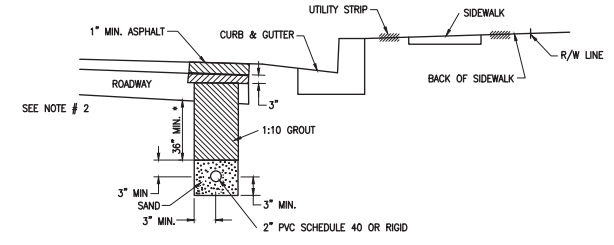


NOTE:  
TRENCH NOT TO BE OPENED MORE THAN 250' AT A TIME

\* MAY BE ADJUSTED IN FIELD DUE TO FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

**2** OPTION

**CONDUIT BURIAL IN ROADWAY**



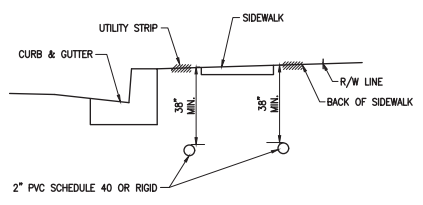
NOTE:

1. TRENCH NOT TO BE OPENED MORE THAN 250' AT A TIME.
2. THIS AREA SHALL BE BACKFILLED WITH TYPE S-1 ASPHALTIC CONCRETE TO WITHIN 1 INCH OF FINISHED GRADE.

\* MAY BE ADJUSTED IN FIELD DUE TO FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

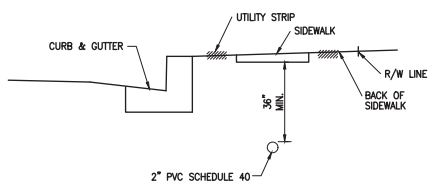
**3** OPTION

**CONDUIT IN UTILITY AND BACK OF SIDEWALK**



**4** OPTION

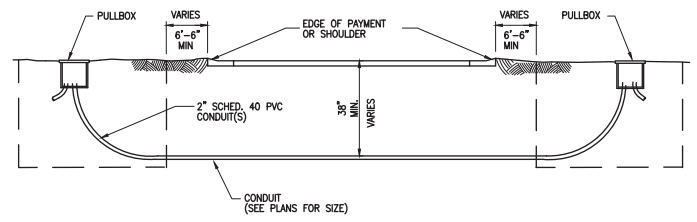
**CONDUIT UNDER SIDEWALK**



NOTE:  
IN PLACING CONDUIT UNDER SIDEWALK REPLACEMENT OF ENTIRE SIDEWALK SECTION SHALL BE NECESSARY.

**5** OPTION

**CONDUIT DIRECTIONAL BORE**



NOTES:

1. DIRECTIONAL BORING OPERATIONS SHALL BE DONE IN ACCORDANCE WITH THE F.D.O.T. UTILITY ACCOMMODATION MANUAL.

**REVISIONS**

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| DESIGNED BY | NAME   | DATE | DRAWN BY | NAME | DATE |
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|             | A.K.   |      | J.M.     |      |      |
|             | L.A.O. |      | L.A.O.   |      |      |
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**MIAMI-DADE COUNTY**

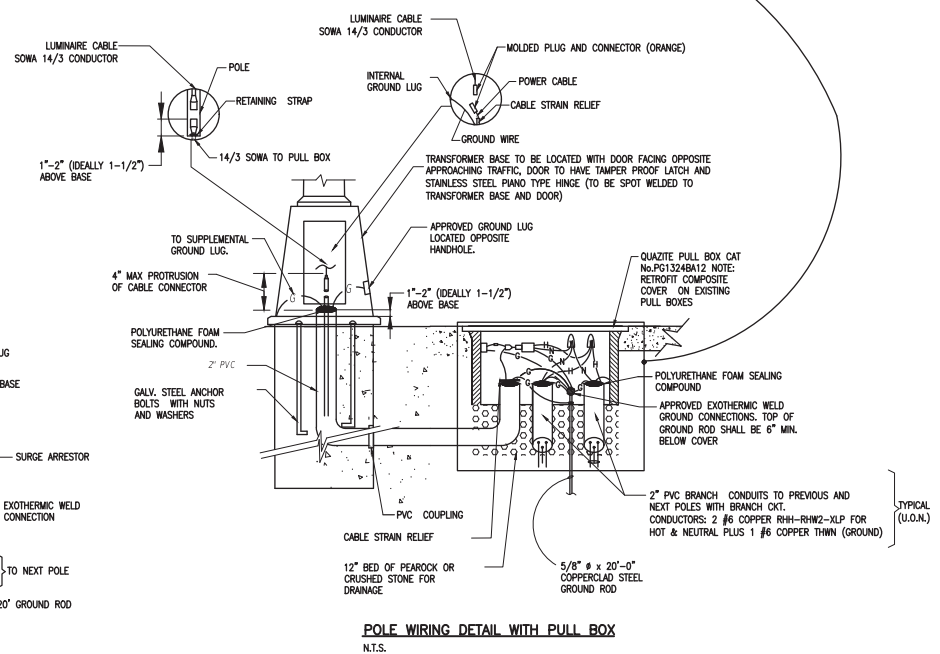
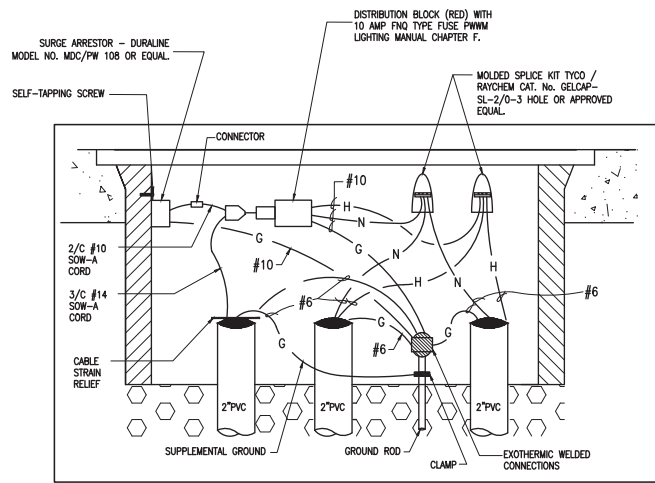
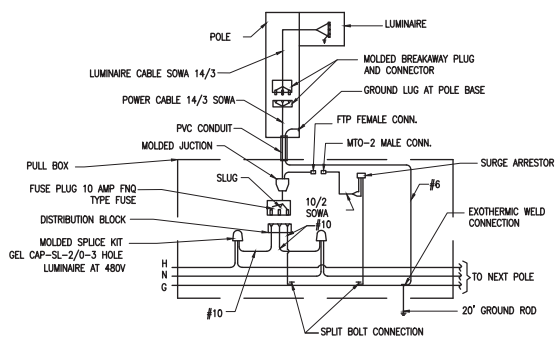
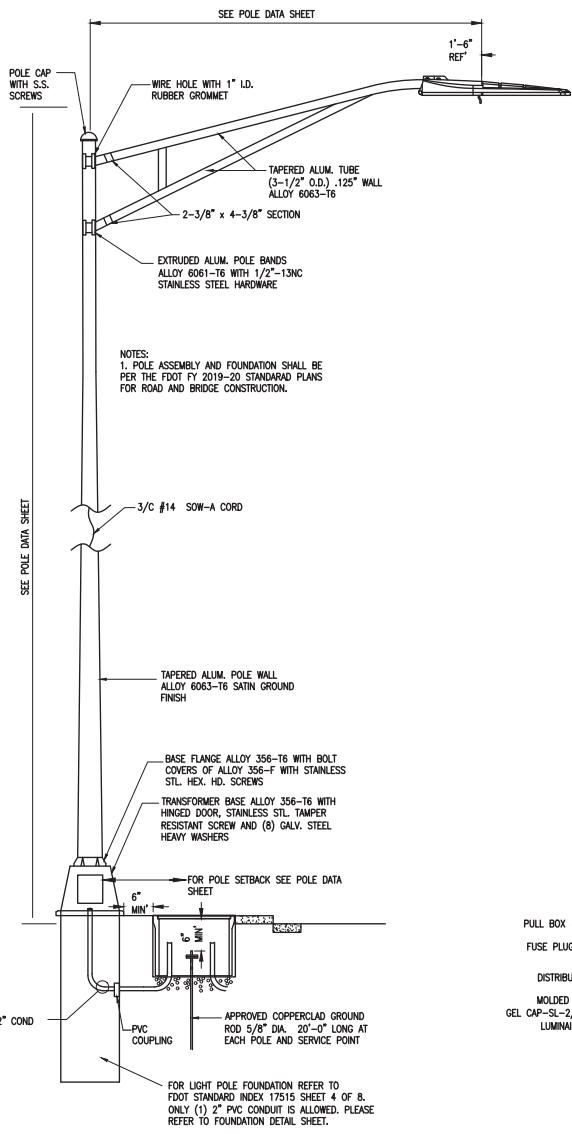
**DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION**

STEPHEN P. CLARK, CENTER  
 100 N.W. 11th ST.  
 MIAMI, FLORIDA 33138

**CONDUIT BURIAL DETAILS**

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THESE DRAWINGS DEPICT PREFERRED INSTALLATION METHODS OR SOLUTION FOR STANDARD JOB CONDITIONS. PROJECT ENGINEER SHALL EVALUATE SPECIFIC JOB REQUIREMENTS BEFORE APPLYING ANY OF THESE DETAILS, AND SHALL PROVIDE ADDITIONAL DETAILS ON SEPARATE SHEETS TO SUIT JOB CONDITIONS.



TYPICAL METAL POLE INSTALLATION DETAIL  
N.T.S.

WIRING DIAGRAM (POLE CABLE DISTRIBUTION)  
N.T.S.

POLE WIRING DETAIL WITH PULL BOX  
N.T.S.

| REVISIONS |    |             |      |    |             |
|-----------|----|-------------|------|----|-------------|
| DATE      | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
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| DESIGNED BY: A.K.  |      | DRAWN BY: J.M.     |      |
| CHECKED BY: L.A.O. |      | CHECKED BY: L.A.O. |      |
| SUPERVISED BY:     |      |                    |      |

**MIAMI-DADE COUNTY**

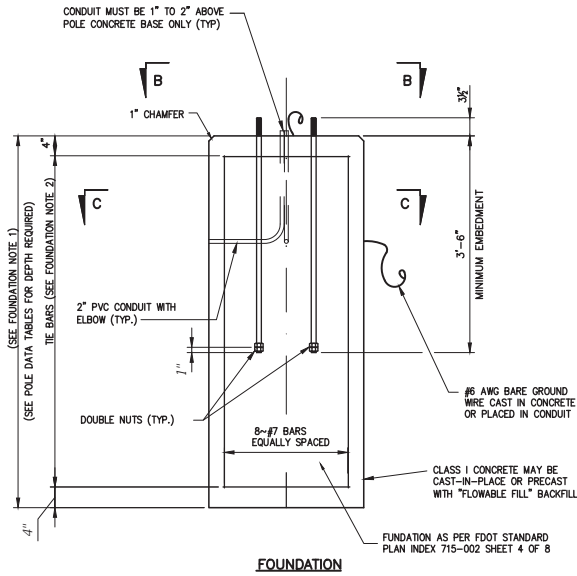
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
HIGHWAY DIVISION

STEPHEN P. CLARK, CHIEF ENGINEER  
100 N.W. 117th STREET  
MIAMI, FLORIDA 33188

**STANDARD POLE DETAILS**

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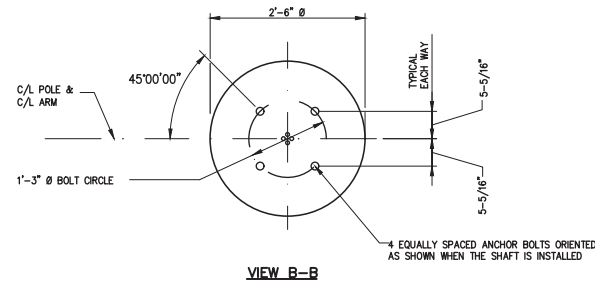
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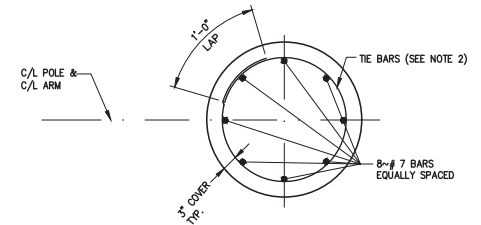
**FOUNDATION**

**FOUNDATION NOTES:**

1. DEPTHS SHOWN ARE FOR SLOPES EQUAL OR FLATTER THAN 1:4. FOR SLOPES STEEPER THAN 1:4 AND EQUAL TO OR FLATTER THAN 1:2 ADD 2'-6" TO FOUNDATION DEPTHS SHOWN.
2. FOUNDATION TIE BARS: #4 TIE BARS @ 12" CENTER (MAX.) OR D10 (OR W10) SPIRAL @6" PITCH, 3 FLAT TURNS TOP AND 1 PLAT TURN BOTTOM.



**VIEW B-B**



**SECTION C-C**

| FOUNDATION TABLE W/ARM     |                             |                  |
|----------------------------|-----------------------------|------------------|
| WIND SPEED (MPH)           | DESIGN MOUNTING HEIGHT (FT) | TOTAL DEPTH (FT) |
| 160                        | 40                          | 8'-0"            |
| BOLD MIN. EMBEDMENT: 3'-6" |                             |                  |

DEPTHS SHOWN IN TABLE ARE FOR GRADES FLATTER THAN 1:4, FOR GRADES UP TO 1:2 ADD 2'-6" TO FOUNDATION DEPTHS SHOWN IN TABLE.

**REVISIONS**

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
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|                | A.K.   |      | J.M.       |        |      |
| CHECKED BY     | L.A.O. |      | CHECKED BY | L.A.O. |      |
| SUPERVISED BY: |        |      |            |        |      |

**MIAMI-DADE COUNTY**

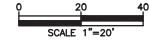
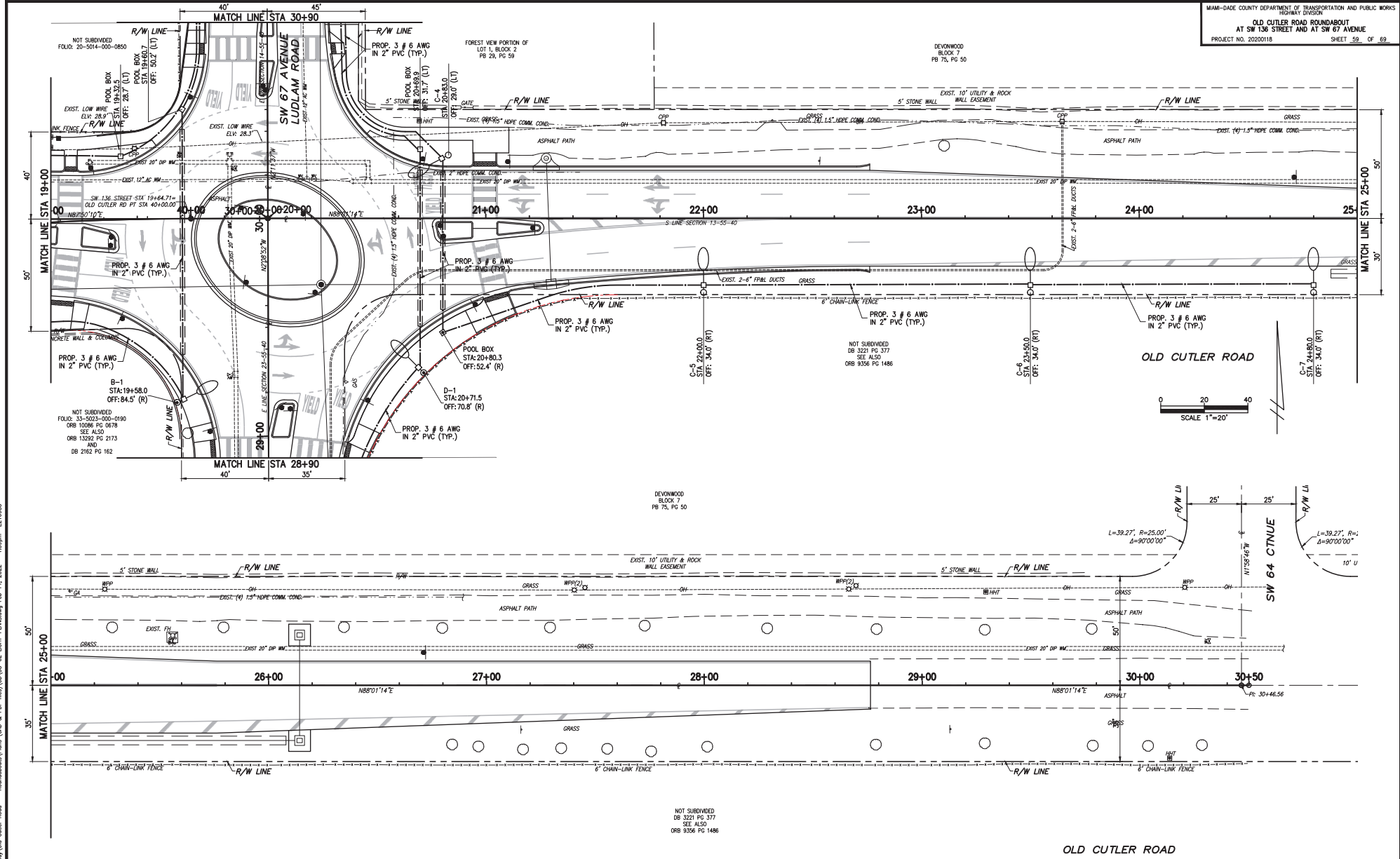
**DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
HIGHWAY DIVISION**

STEPHEN P. CLARK, CHIEF ENGINEER  
100 N.W. 11<sup>TH</sup> AVENUE  
MIAMI, FLORIDA 33138

**FOUNDATION DETAIL**

**SHEET**





REVISIONS

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
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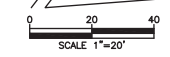
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
**MIAMI-DADE COUNTY**  
 STEPHEN P. CLARK CENTER  
 1000 N.W. 11<sup>TH</sup> STREET  
 MIAMI, FLORIDA 33138

LIGHTING PLAN

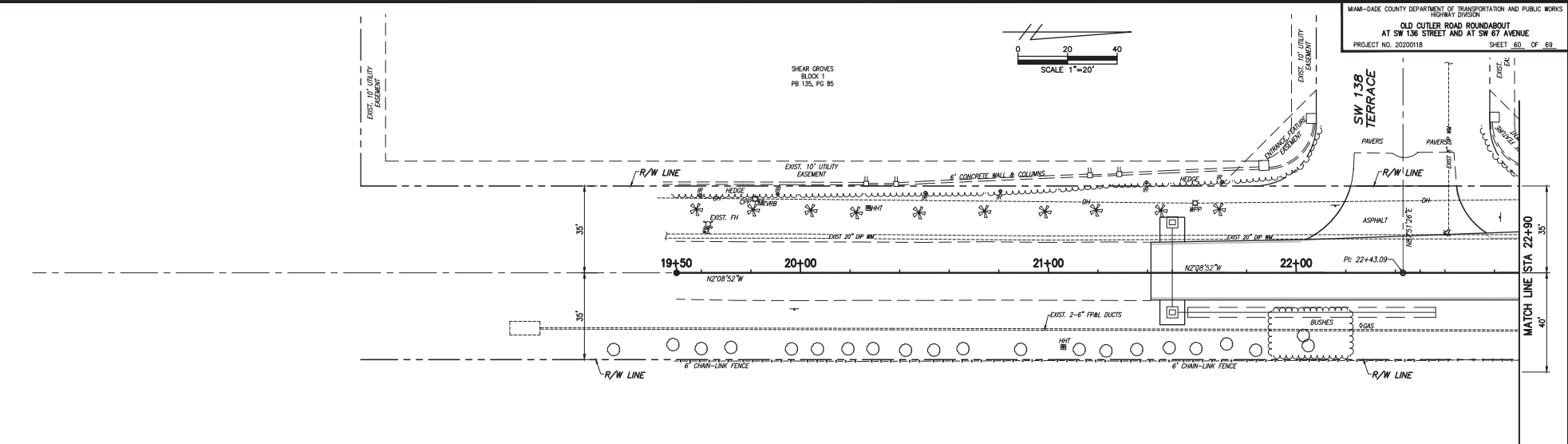
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MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
 OLD CUTLER ROAD ROUNDABOUT  
 AT SW 136 STREET AND AT SW 67 AVENUE  
 PROJECT NO. 20220118 SHEET 60 OF 69



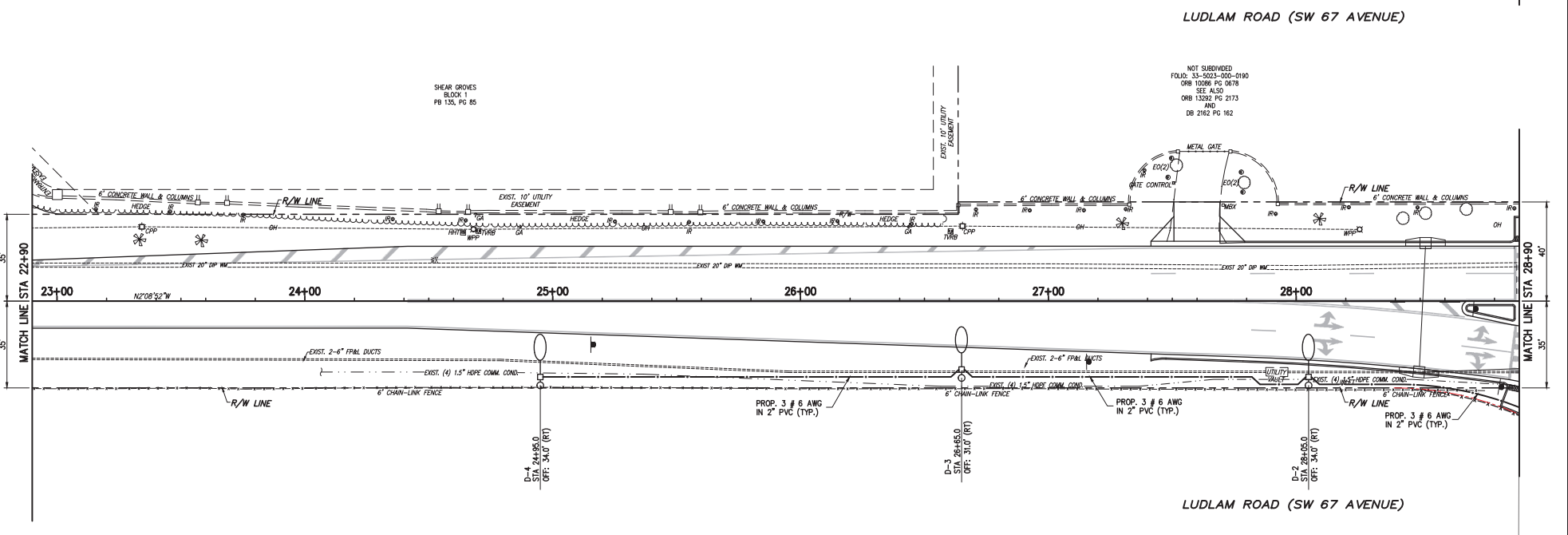
SHEAR GROVES  
 BLOCK 1  
 PB 133, PG 85



LUDLAM ROAD (SW 67 AVENUE)

NOT SUBDIVIDED  
 FOLIO 33-5053-000-0190  
 ORB 10096 PG 0678  
 SEE ALSO  
 ORB 13322 PG 2173  
 AND  
 DB 2162 PG 162

SHEAR GROVES  
 BLOCK 1  
 PB 133, PG 85



LUDLAM ROAD (SW 67 AVENUE)

REVISIONS

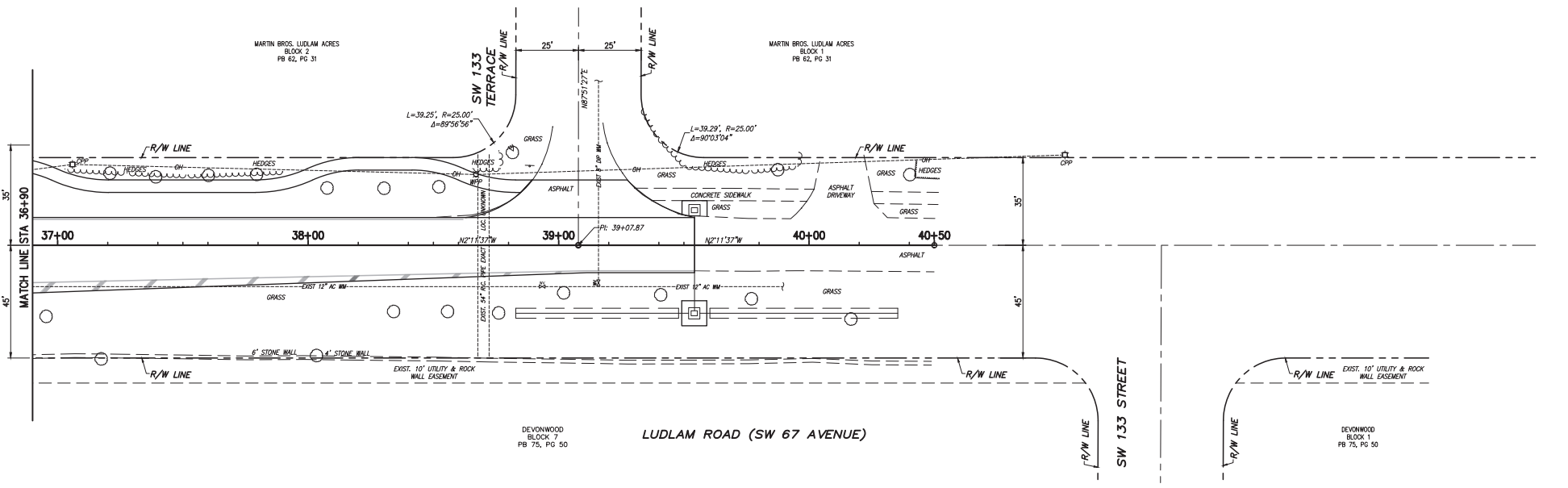
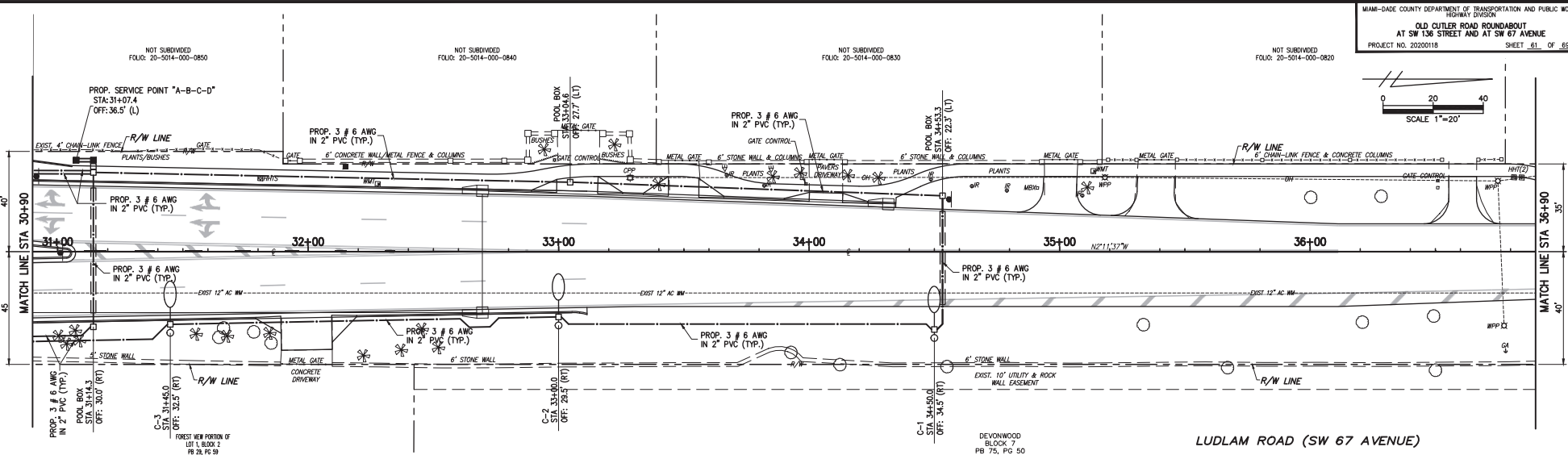
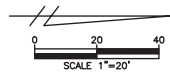
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| DESIGNED BY | NAME   | DATE | DRAWN BY   | NAME   | DATE |
|-------------|--------|------|------------|--------|------|
|             | A.M.   |      |            | J.M.   |      |
| CHECKED BY  | L.A.O. |      | CHECKED BY | L.A.O. |      |

DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC WORKS  
 HIGHWAY DIVISION  
 MIAMI-DADE COUNTY

LIGHTING PLAN

STEPHEN P. CLARK CENTER  
 100 N.W. 25th St.  
 MIAMI, FLORIDA 33138



REVISIONS

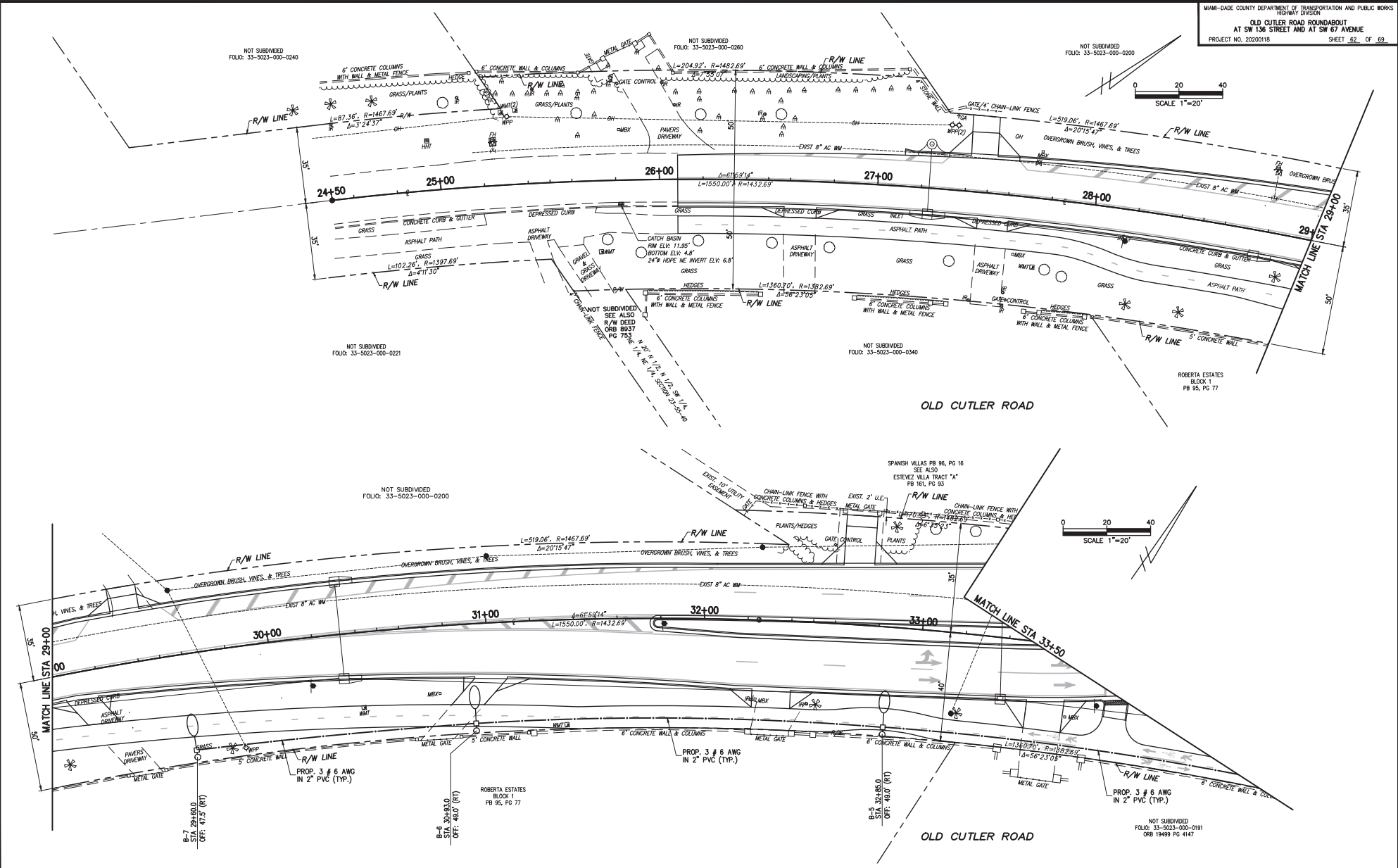
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| NAME               | DATE | NAME               | DATE |
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| DESIGNED BY: A.M.  |      | DRAWN BY: J.M.     |      |
| CHECKED BY: L.A.O. |      | CHECKED BY: L.A.O. |      |
| SUPERVISED BY:     |      |                    |      |

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
 STEPHEN P. CLARK CENTER  
 100 N.W. 117  
 MIAMI, FLORIDA 33138

LIGHTING PLAN

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REVISIONS

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|----------------|--------|------|------------|--------|------|
|                | A.K.   |      |            | J.M.   |      |
| CHECKED BY     | L.A.O. |      | CHECKED BY | L.A.O. |      |
| SUPERVISED BY: |        |      |            |        |      |

**MIAMI-DADE COUNTY**  
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
 STEPHEN P. CLARK CENTER  
 100 N.W. 25th St.  
 MIAMI, FLORIDA 33128

**LIGHTING PLAN**

P:\Miami\Highway\Old Cutler Road - Roundabout\Drawings\Lighting\Lighting Plan.dwg Feb 14, 2022 1:40pm E216983

| TREE NO. | COMMON NAME        | DIAMETER AT BREAST HEIGHT (DBH) | CANOPY DIAMETER | REMARKS       |
|----------|--------------------|---------------------------------|-----------------|---------------|
| 1        | TREE - GUMBO LIMBO | 12"                             | 30'             | REMAIN        |
| 2        | TREE - GUMBO LIMBO | 12"                             | 30'             | REMAIN        |
| 3        | TREE - GUMBO LIMBO | 12"                             | 30'             | REMAIN        |
| 4        | TREE - GUMBO LIMBO | 12"                             | 30'             | REMAIN        |
| 5        | TREE - POINCIANA   | 18"                             | 40'             | REMAIN        |
| 6        | TREE - GUMBO LIMBO | 12"                             | 30'             | REMAIN        |
| 7        | TREE - UNKNOWN     | 10"                             | 20'             | REMAIN        |
| 8        | TREE - UNKNOWN     | 10"                             | 20'             | REMAIN        |
| 9        | TREE - UNKNOWN     | 10"                             | 20'             | REMAIN        |
| 10       | PALM - SABLE       | 12"                             |                 | REMAIN        |
| 11       | PALM - PINEAPPLE   | 24"                             |                 | REMAIN        |
| 12       | TREE - UNKNOWN     | 10"                             | 20'             | REMAIN        |
| 13       | TREE - UNKNOWN     | 10"                             | 20'             | REMAIN        |
| 14       | TREE - UNKNOWN     | 10"                             | 20'             | REMAIN        |
| 15       | TREE - UNKNOWN     | 10"                             | 20'             | REMAIN        |
| 16       | TREE - UNKNOWN     | 10"                             | 20'             | REMAIN        |
| 17       | PALM - FOXTAIL     | 10"                             |                 | TO BE REMOVED |
| 18       | PALM - FOXTAIL     | 10"                             |                 | TO BE REMOVED |
| 19       | TREE - UNKNOWN     | 10"                             | 20'             | REMAIN        |
| 20       | TREE - UNKNOWN     | 10"                             | 20'             | REMAIN        |
| 21       | TREE - UNKNOWN     | 10"                             | 20'             | REMAIN        |
| 22       | TREE - UNKNOWN     | 10"                             | 20'             | REMAIN        |
| 23       | TREE - GUMBO LIMBO | 10"                             | 20'             | TO BE REMOVED |
| 24       | TREE - UNKNOWN     | 5"                              | 15'             | TO BE REMOVED |
| 25       | TREE - UNKNOWN     | 8"                              | 15'             | REMAIN        |
| 26       | TREE - UNKNOWN     | 8"                              | 10'             | REMAIN        |
| 27       | TREE - UNKNOWN     | 6"                              | 10'             | REMAIN        |
| 28       | TREE - GUMBO LIMBO | 12"                             | 10'             | REMAIN        |
| 29       | TREE - GUMBO LIMBO | 10"                             | 10'             | REMAIN        |
| 30       | TREE - GUMBO LIMBO | 10"                             | 10'             | REMAIN        |
| 31       | TREE - UNKNOWN     | 12"                             | 10'             | REMAIN        |
| 32       | TREE - GUMBO LIMBO | 10"                             | 10'             | REMAIN        |
| 33       | TREE - UNKNOWN     | 12"                             | 20'             | REMAIN        |
| 34       | TREE - UNKNOWN     | 12"                             | 30'             | REMAIN        |
| 35       | TREE - UNKNOWN     | 3"                              | 10'             | REMAIN        |
| 36       | TREE - UNKNOWN     | 3"                              | 10'             | REMAIN        |
| 37       | TREE - BLACK OLIVE | 10"                             | 10'             | TO BE REMOVED |
| 38       | TREE - BLACK OLIVE | 12"                             | 20'             | TO BE REMOVED |
| 39       | TREE - BLACK OLIVE | 6"                              | 20'             | TO BE REMOVED |
| 40       | TREE - GUMBO LIMBO | 20"                             | 30"             | REMAIN        |
| 41       | TREE - UNKNOWN     | 6"                              | 10'             | REMAIN        |
| 42       | TREE - UNKNOWN     | 5"                              | 10'             | TO BE REMOVED |
| 43       | TREE - UNKNOWN     | 10"                             | 20'             | TO BE REMOVED |
| 44       | PALM - FOXTAIL     | 10"                             |                 | TO BE REMOVED |
| 45       | TREE - OAK         | 10"                             | 30'             | TO BE REMOVED |
| 46       | TREE - OAK         | 10"                             | 30'             | TO BE REMOVED |
| 47       | TREE - OAK         | 10"                             | 30'             | TO BE REMOVED |
| 48       | TREE - OAK         | 10"                             | 30'             | TO BE REMOVED |
| 49       | TREE - OAK         | 10"                             | 30'             | REMAIN        |
| 50       | TREE - OAK         | 10"                             | 30'             | REMAIN        |

| TREE NO. | COMMON NAME          | DIAMETER AT BREAST HEIGHT (DBH) | CANOPY DIAMETER | REMARKS                   |
|----------|----------------------|---------------------------------|-----------------|---------------------------|
| 51       | TREE - UNKNOWN       | 15"                             | 20'             | TO BE REMOVED             |
| 52       | PALM - CANARY        | 12"                             |                 | TO BE REMOVED             |
| 53       | PALM - UNKNOWN       | 12"                             |                 | TO BE REMOVED             |
| 54       | PALM - UNKNOWN       | 12"                             |                 | TO BE REMOVED             |
| 55       | PALM - CANARY        | 12"                             |                 | TO BE REMOVED             |
| 56       | PALM - BISMARCK      | 12"                             |                 | TO BE REMOVED             |
| 57       | PALM - ALEXANDER (3) | 6"                              |                 | TO BE REMOVED             |
| 58       | PALM - ALEXANDER     | 8"                              |                 | TO BE REMOVED             |
| 59       | PALM - ALEXANDER     | 8"                              |                 | TO BE REMOVED             |
| 60       | PALM - ALEXANDER     | 8"                              |                 | TO BE REMOVED             |
| 61       | PALM - ROYAL         | 15"                             |                 | TO BE REMOVED             |
| 62       | TREE - UNKNOWN       | 24"                             | 20'             | TO BE REMOVED             |
| 63       | TREE - BLACK OLIVE   | 8"                              | 20'             | REMAIN                    |
| 64       | TREE - BLACK OLIVE   | 16"                             | 20'             | REMAIN                    |
| 65       | TREE - UNKNOWN       | 6"                              | 20'             | REMAIN                    |
| 66       | TREE - UNKNOWN       | 12"                             | 20'             | REMAIN                    |
| 67       | TREE - UNKNOWN       | 8"                              | 10'             | REMAIN                    |
| 68       | TREE - GUMBO LIMBO   | 16"                             | 20'             | REMAIN                    |
| 69       | TREE - POINCIANA     | 12"                             | 30'             | REMAIN                    |
| 70       | TREE - UNKNOWN       | 48"                             | 30'             | REMAIN                    |
| 71       | TREE - UNKNOWN       | 10"                             | 15'             | REMAIN                    |
| 72       | PALM - UNKNOWN       | 12"                             | 5'              | REMAIN                    |
| 73       | TREE - UNKNOWN       | 10"                             | 10'             | REMAIN                    |
| 74       | TREE - BLACK OLIVE   | 20"                             | 20'             | REMAIN                    |
| 75       | PALM - UNKNOWN       | 12"                             | 10'             | REMAIN                    |
| 76       | TREE - UNKNOWN       | 16"                             | 20'             | REMAIN                    |
| 77       | TREE - BLACK OLIVE   | 16"                             | 20'             | REMAIN                    |
| 78       | TREE - BLACK OLIVE   | 20"                             | 20'             | TO BE REMOVED             |
| 79       | TREE - UNKNOWN       | 6"                              | 15'             | REMAIN                    |
| 80       | TREE - UNKNOWN       | 10"                             | 15'             | TO BE REMOVED             |
| 81       | TREE - GUMBO LIMBO   | 8"                              | 15'             | TO BE REMOVED             |
| 82       | TREE - GUMBO LIMBO   | 15"                             | 30'             | TO BE REMOVED             |
| 83       | TREE - MAHOGANY      | 24"                             | 30'             | TO BE REMOVED             |
| 84       | TREE - MAHOGANY      | 30"                             | 30'             | TO BE REMOVED             |
| 85       | TREE - MAHOGANY      | 30"                             | 30'             | TO BE REMOVED             |
| 86       | TREE - MAHOGANY      | 30"                             | 30'             | TO BE REMOVED             |
| 87       | TREE - GUMBO LIMBO   | 15"                             | 30'             | REMAIN                    |
| 88       | TREE - GUMBO LIMBO   | 15"                             | 30'             | TO BE REMOVED             |
| 89       | TREE - FICUS         | 50"                             | 60"             | TO BE REMOVED             |
| 90       | TREE - FICUS         | 50"                             | 60"             | TO BE REMOVED             |
| 91       | TREE - MAHOGANY      | 36"                             | 40"             | TO BE REMOVED             |
| 92       | TREE - MAHOGANY      | 36"                             | 40"             | TO BE REMOVED             |
| 93       | TREE - MAHOGANY      | 36"                             | 30"             | TO BE REMOVED             |
| 94       | PALM - UNKNOWN       | 12"                             | 10'             | TO BE REMOVED             |
| 95       | TREE - OAK           | 14"                             | 30'             | TO BE REMOVED             |
| 96       | PALM - SABLE         | 12"                             |                 | RELOCATED AND OR REPLACED |
| 97       | PALM - SABLE         | 12"                             |                 | RELOCATED AND OR REPLACED |
| 98       | PALM - SABLE         | 12"                             |                 | RELOCATED AND OR REPLACED |
| 99       | PALM - SABLE         | 12"                             |                 | RELOCATED AND OR REPLACED |
| 100      | TREE - MAHOGANY      | 12"                             | 30'             | TO BE REMOVED             |

| TREE NO. | COMMON NAME          | DIAMETER AT BREAST HEIGHT (DBH) | CANOPY DIAMETER | REMARKS       |
|----------|----------------------|---------------------------------|-----------------|---------------|
| 101      | TREE - MAHOGANY      | 12"                             | 30'             | TO BE REMOVED |
| 102      | TREE - MAHOGANY      | 36"                             | 60'             | TO BE REMOVED |
| 103      | TREE - MAHOGANY      | 36"                             | 60'             | TO BE REMOVED |
| 104      | TREE - MAHOGANY      | 12"                             | 30'             | TO BE REMOVED |
| 105      | TREE - MAHOGANY      | 36"                             | 60'             | TO BE REMOVED |
| 106      | TREE - MAHOGANY      | 36"                             | 60'             | TO BE REMOVED |
| 107      | TREE - MAHOGANY      | 6"                              | 10'             | TO BE REMOVED |
| 108      | TREE - MAHOGANY      | 36"                             | 60'             | TO BE REMOVED |
| 109      | TREE - MAHOGANY      | 36"                             | 60'             | TO BE REMOVED |
| 110      | TREE - MAHOGANY      | 14"                             | 40'             | REMAIN        |
| 111      | TREE - MAHOGANY      | 36"                             | 40'             | REMAIN        |
| 112      | TREE - MAHOGANY      | 14"                             | 40'             | REMAIN        |
| 113      | TREE - MAHOGANY      | 18"                             | 30'             | REMAIN        |
| 114      | TREE - MAHOGANY      | 30"                             | 40'             | REMAIN        |
| 115      | TREE - MAHOGANY      | 14"                             | 40'             | REMAIN        |
| 116      | TREE - MAHOGANY      | 30"                             | 30'             | REMAIN        |
| 117      | TREE - MAHOGANY      | 30"                             | 30'             | REMAIN        |
| 118      | TREE - MAHOGANY      | 36"                             | 60'             | TO BE REMOVED |
| 119      | TREE - MAHOGANY      | 36"                             | 60'             | TO BE REMOVED |
| 120      | TREE - MAHOGANY      | 36"                             | 60'             | TO BE REMOVED |
| 121      | TREE - OAK           | 12"                             | 40'             | REMAIN        |
| 122      | TREE - MAHOGANY      | 12"                             | 30'             | REMAIN        |
| 123      | TREE - OAK           | 12"                             | 40'             | REMAIN        |
| 124      | TREE - MAHOGANY      | 12"                             | 30'             | REMAIN        |
| 125      | TREE - OAK           | 12"                             | 40'             | REMAIN        |
| 126      | TREE - MAHOGANY      | 12"                             | 40'             | REMAIN        |
| 127      | TREE - OAK           | 12"                             | 40'             | REMAIN        |
| 128      | TREE - MAHOGANY      | 36"                             | 60'             | REMAIN        |
| 129      | PALM - ALEXANDER (2) | 6"                              |                 | REMAIN        |
| 130      | PALM - ALEXANDER (4) | 6"                              |                 | REMAIN        |
| 131      | TREE - BUTTWOOD      | 12"                             | 30"             | REMAIN        |
| 132      | TREE - OAK           | 10"                             | 30'             | REMAIN        |
| 133      | TREE - BUTTWOOD      | 12"                             | 30"             | REMAIN        |
| 134      | TREE - OAK           | 12"                             | 30"             | REMAIN        |
| 135      | TREE - BUTTWOOD      | 10"                             | 30"             | REMAIN        |
| 136      | TREE - OAK           | 15"                             | 40"             | REMAIN        |
| 137      | TREE - BUTTWOOD      | 12"                             | 30"             | REMAIN        |
| 138      | PALM - ALEXANDER (3) | 6"                              |                 | REMAIN        |
| 139      | PALM - ALEXANDER (3) | 6"                              |                 | REMAIN        |
| 140      | PALM - ALEXANDER (3) | 6"                              |                 | TO BE REMOVED |
| 141      | PALM - ALEXANDER (3) | 6"                              |                 | TO BE REMOVED |
| 142      | PALM - ALEXANDER     | 10"                             |                 | TO BE REMOVED |
| 143      | PALM - ALEXANDER     | 10"                             |                 | TO BE REMOVED |
| 144      | PALM - ALEXANDER     | 10"                             |                 | TO BE REMOVED |
| 145      | PALM - ALEXANDER     | 10"                             |                 | TO BE REMOVED |
| 146      | PALM - ALEXANDER     | 10"                             |                 | TO BE REMOVED |
| 147      | PALM - ALEXANDER     | 10"                             |                 | TO BE REMOVED |
| 148      | PALM - ALEXANDER     | 10"                             |                 | TO BE REMOVED |
| 149      | PALM - ALEXANDER     | 10"                             |                 | TO BE REMOVED |
| 150      | PALM - ALEXANDER     | 10"                             |                 | TO BE REMOVED |

REVISIONS

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|------|----|-------------|------|----|-------------|
|      |    |             |      |    |             |

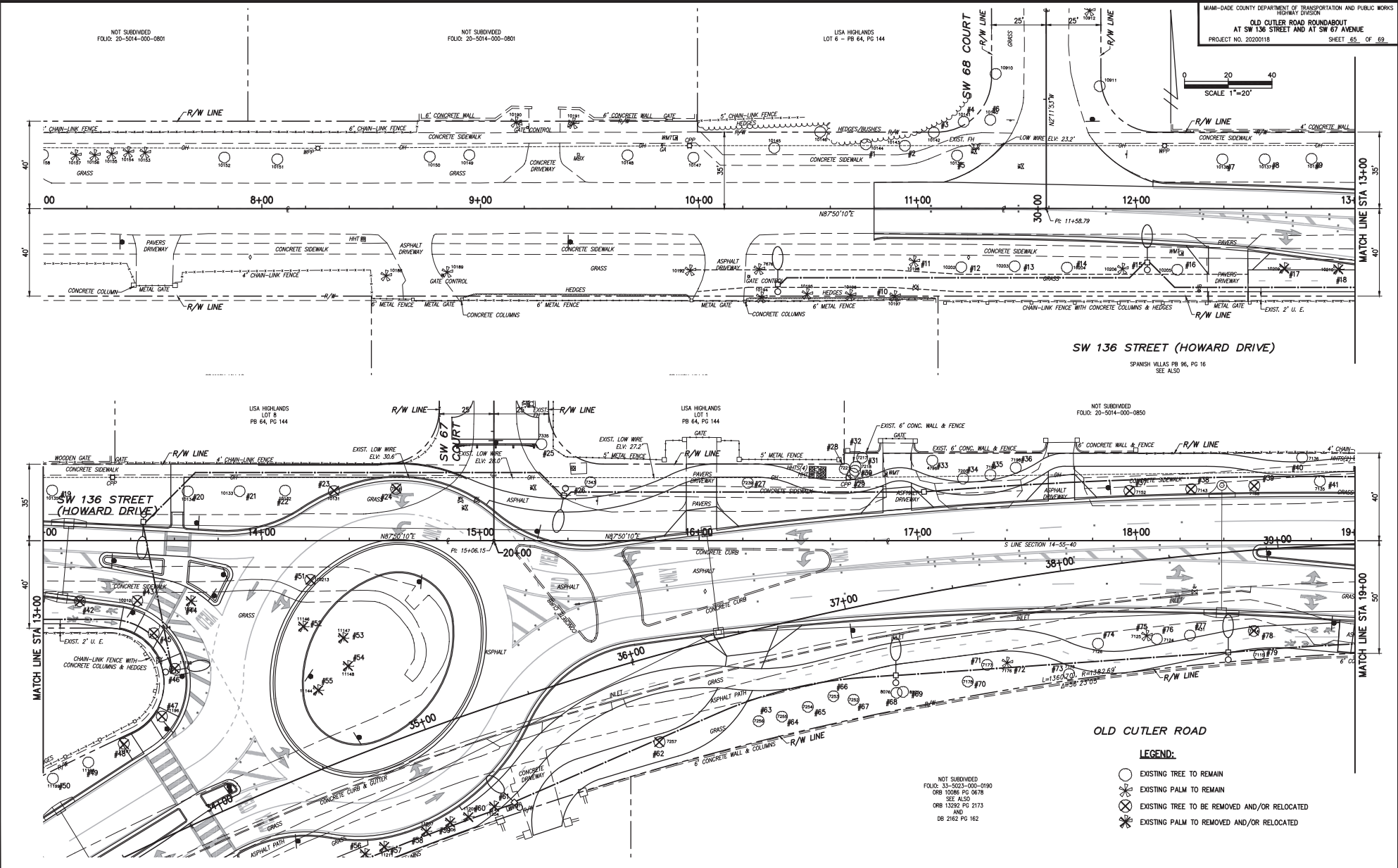
| DESIGNED BY    | NAME   | DATE      | DRAWN BY   | NAME   | DATE      |
|----------------|--------|-----------|------------|--------|-----------|
|                | A.S.   | 2/14/2022 |            | J.M.   | 2/14/2022 |
| CHECKED BY     | L.A.O. | 2/14/2022 | CHECKED BY | L.A.O. | 2/14/2022 |
| SUPERVISED BY: |        |           |            |        |           |

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY DIVISION  
**MIAMI-DADE COUNTY**  
STEPHEN S. CLARK CENTER  
1200 N.W. 25th St.  
MIAMI, FLORIDA 33128

TREE SURVEY/ACTION PLAN

P:\Miami\Highway\Old Cutler Road - Roundabout\Plan (CAD & PDF files)\2022-02-15-15:2022 - 3:51pm - E210683





**SW 136 STREET (HOWARD DRIVE)**  
 SPANISH VILLAS PB 96, PG. 16  
 SEE ALSO

**OLD CUTLER ROAD**

**LEGEND:**

- EXISTING TREE TO REMAIN
- ⊗ EXISTING PALM TO REMAIN
- ⊗ EXISTING TREE TO BE REMOVED AND/OR RELOCATED
- ⊗ EXISTING PALM TO BE REMOVED AND/OR RELOCATED

NOT SUBDIVIDED  
 FOLIO: 83-5003-000-0190  
 ORB 10086 PG 0878  
 SEE ALSO  
 ORB 13292 PG 2173  
 AND  
 DB 2162 PG 162

**REVISIONS**

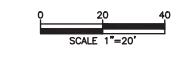
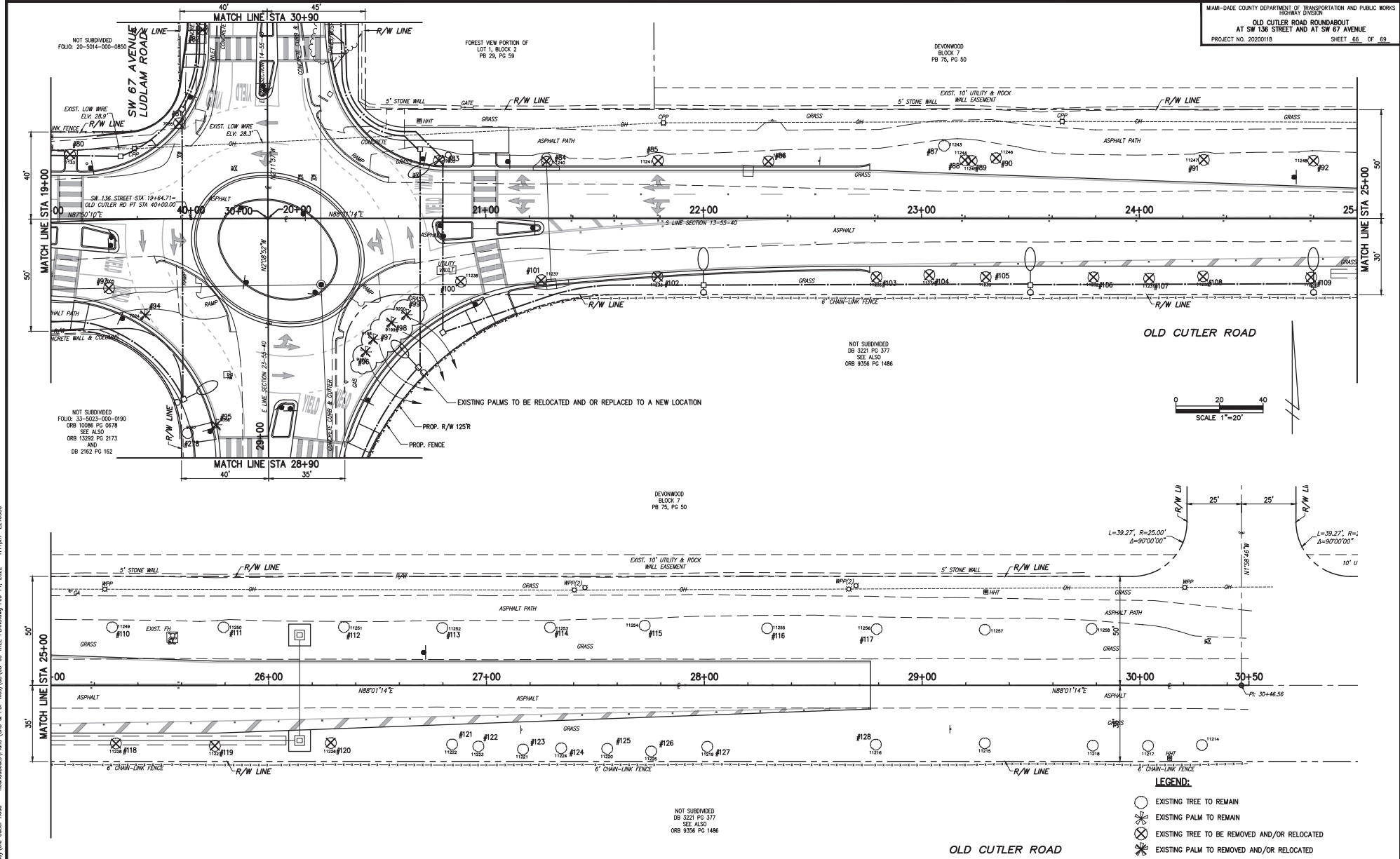
| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|------|----|-------------|------|----|-------------|
|      |    |             |      |    |             |
|      |    |             |      |    |             |

| DESIGNED BY    | NAME   | DATE | DRAWN BY   | NAME   | DATE |
|----------------|--------|------|------------|--------|------|
|                | A.M.   |      |            | J.M.   |      |
| CHECKED BY     | L.A.O. |      | CHECKED BY | L.A.O. |      |
| SUPERVISED BY: |        |      |            |        |      |

**MIAMI-DADE COUNTY**  
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
 STEPHEN P. CLARK, CHIEF  
 100 N.W. 11th St.  
 MIAMI, FLORIDA 33138

**LANDSCAPE PLAN**

P:\my\Planning\Highway\Old Cutler Road - Roundabouts\Plan (CAD & PDF files)\CD105-09 TREE PLANS.dwg Feb. 14, 2022 - 1:14pm E210983



- LEGEND:**
- EXISTING TREE TO REMAIN
  - ✂ EXISTING PALM TO REMAIN
  - ⊗ EXISTING TREE TO BE REMOVED AND/OR RELOCATED
  - ✂⊗ EXISTING PALM TO BE REMOVED AND/OR RELOCATED

P:\Miami\Highway\Old Cutler Road - Roundabout\Draws (CAD & PDF files)\CAD\05-09 TREE PLANS.dwg Feb 14, 2022 1:14pm E210983

| REVISIONS |    |             |      |    |             |
|-----------|----|-------------|------|----|-------------|
| DATE      | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|           |    |             |      |    |             |
|           |    |             |      |    |             |

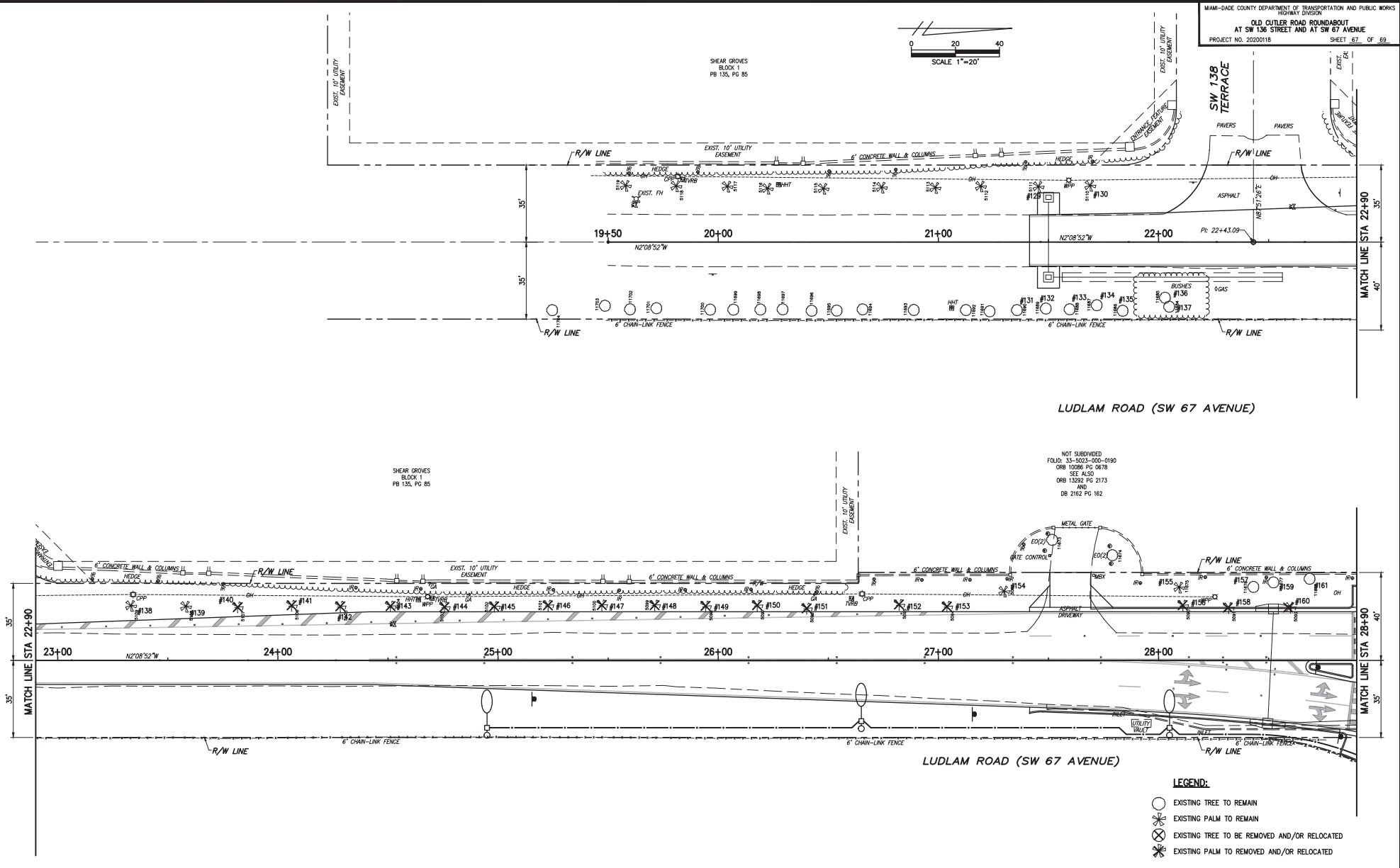
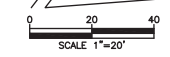
| DESIGNED BY    | NAME   | DATE | DRAWN BY | NAME   | DATE |
|----------------|--------|------|----------|--------|------|
|                | A.K.   |      |          | J.M.   |      |
|                | L.A.O. |      |          | L.A.O. |      |
| SUPERVISED BY: |        |      |          |        |      |

**MIAMI-DADE COUNTY**

**DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS**  
 HIGHWAY DIVISION

STEPHEN P. CLARK, CHIEF  
 100 N.W. 1<sup>ST</sup> AVENUE  
 MIAMI, FLORIDA 33138

**LANDSCAPE PLAN**



LUDLAM ROAD (SW 67 AVENUE)

LUDLAM ROAD (SW 67 AVENUE)

NOT SUBDIVIDED  
 FOLIO 33-5033-000-0190  
 ORB 10096 PG 0678  
 SEE ALSO  
 ORB 13322 PG 2173  
 AND  
 DB 2162 PG 162

- LEGEND:**
- EXISTING TREE TO REMAIN
  - ⊗ EXISTING PALM TO REMAIN
  - ⊗ EXISTING TREE TO BE REMOVED AND/OR RELOCATED
  - ⊗ EXISTING PALM TO BE REMOVED AND/OR RELOCATED

**REVISIONS**

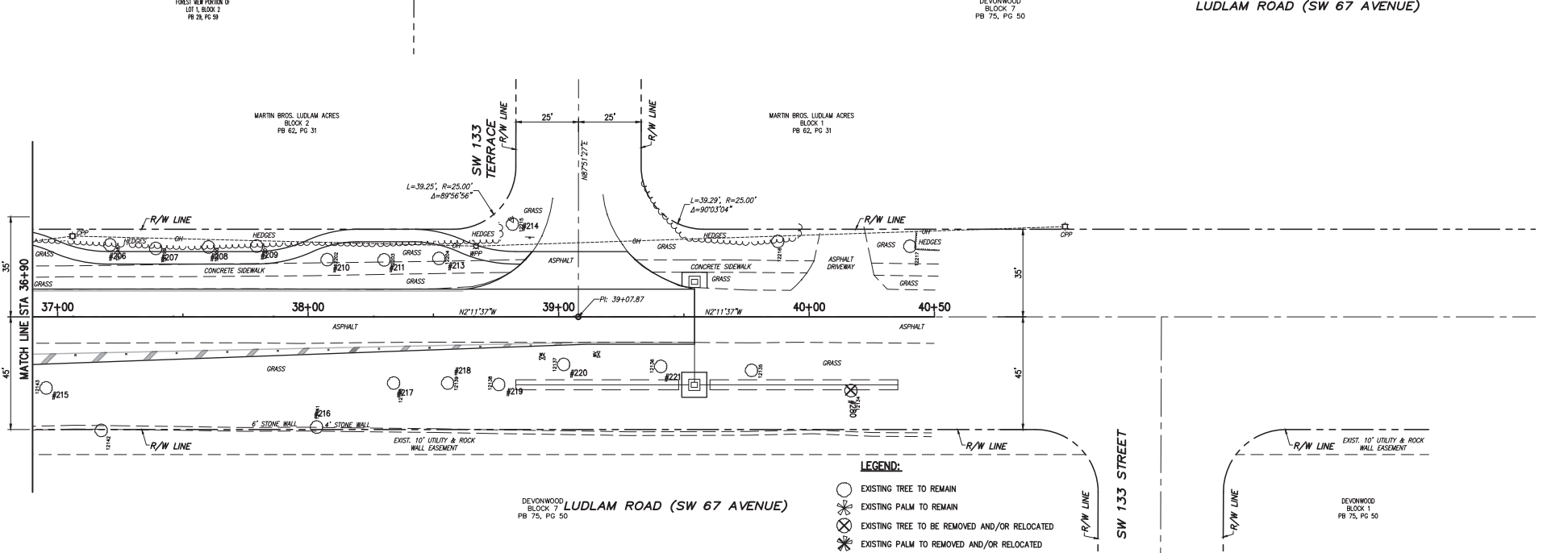
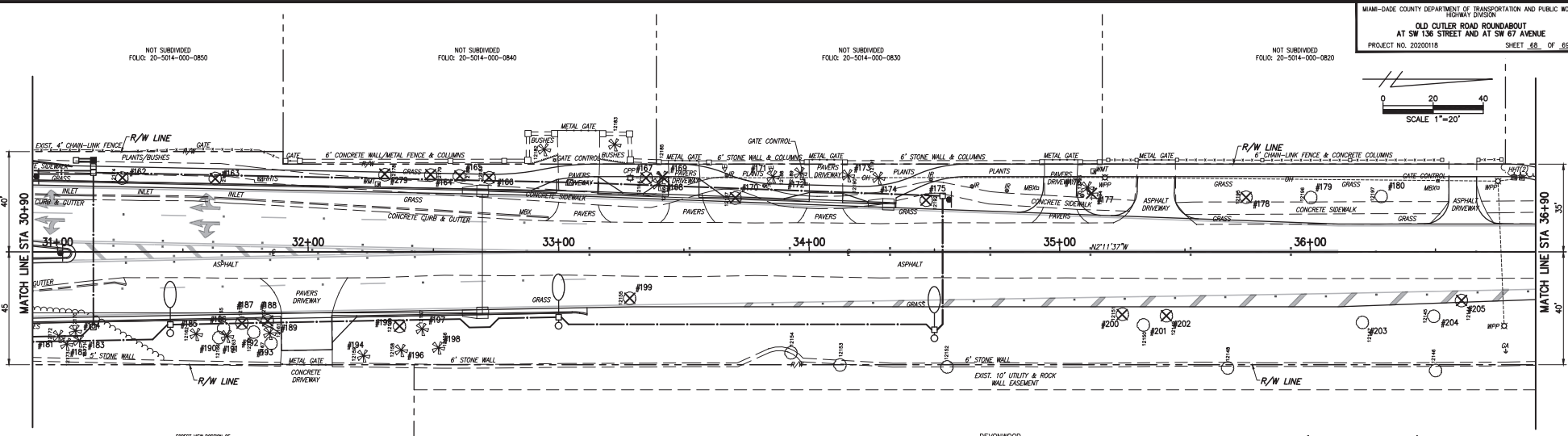
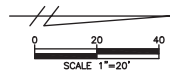
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|------|----|-------------|------|----|-------------|
|      |    |             |      |    |             |
|      |    |             |      |    |             |

| DESIGNED BY    | NAME   | DATE | DRAWN BY   | NAME   | DATE |
|----------------|--------|------|------------|--------|------|
|                | A.M.   |      | J.M.       |        |      |
| CHECKED BY     | L.A.O. |      | CHECKED BY | L.A.O. |      |
| SUPERVISED BY: |        |      |            |        |      |



**LANDSCAPE PLAN**

P:\m\Planning\Highway\Old Cutler Road - Roundabouts\Plan - Landscape\DWG\105-09 TREE PLANS.dwg Feb 14, 2022 - 1:14pm E210983



- LEGEND:**
- EXISTING TREE TO REMAIN
  - ☼ EXISTING PALM TO REMAIN
  - ⊗ EXISTING TREE TO BE REMOVED AND/OR RELOCATED
  - ☼⊗ EXISTING PALM TO BE REMOVED AND/OR RELOCATED

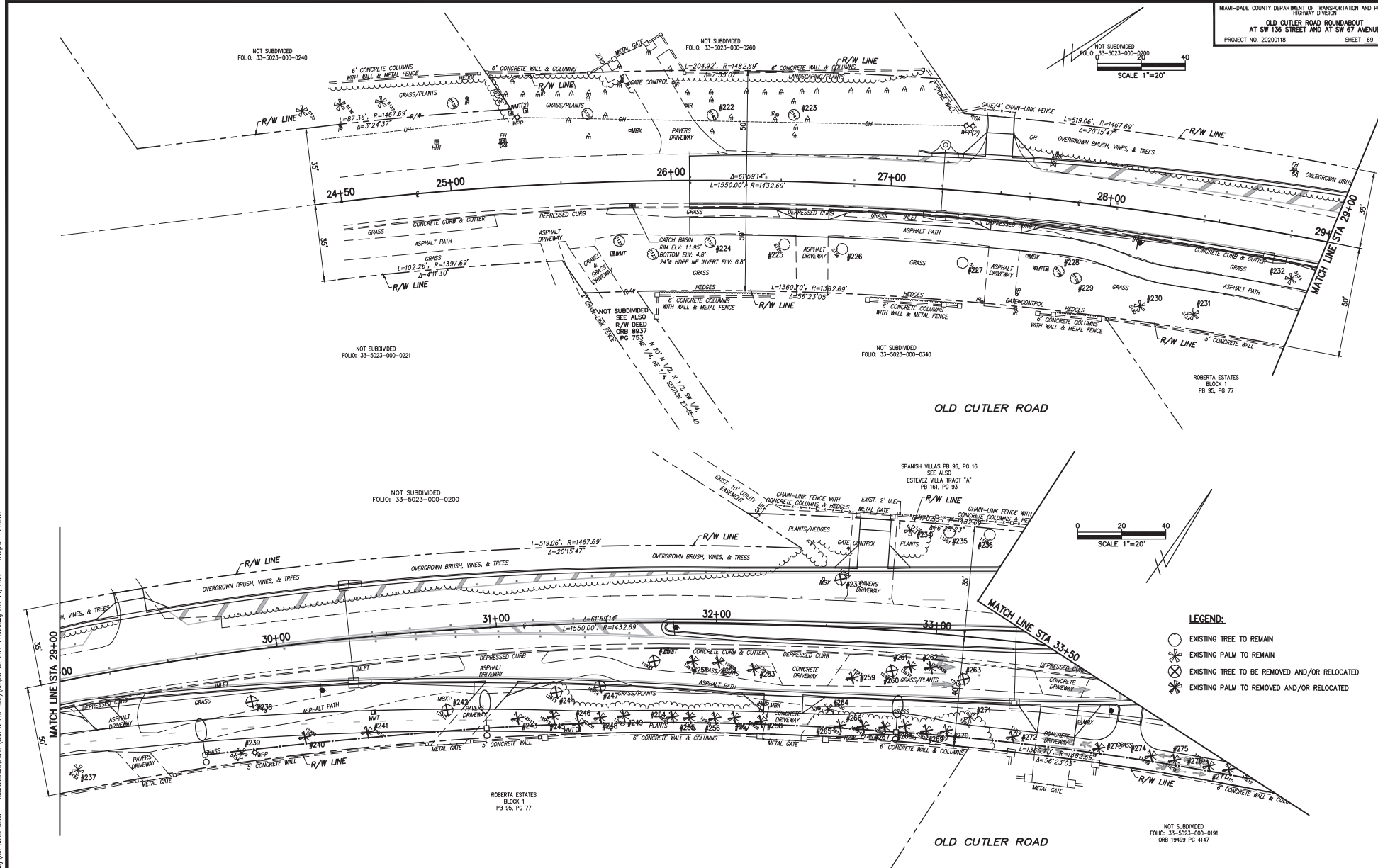
| REVISIONS |    |             |      |    |             |
|-----------|----|-------------|------|----|-------------|
| DATE      | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|           |    |             |      |    |             |

| DESIGNED BY | NAME | DATE | DRAWN BY | NAME | DATE |
|-------------|------|------|----------|------|------|
|             |      |      |          |      |      |

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
**MIAMI-DADE COUNTY**  
 STEPHEN P. CLARK, CHIEF  
 100 N.W. 11th St.  
 MIAMI, FLORIDA 33138

**LANDSCAPE PLAN**

P:\my\Planning\Highway\Old Cutler Road - Roundabouts\Plan (CAD & PDF files)\CAD\05-09 TREE PLANS.dwg Feb 14, 2022 1:14pm E210983



- LEGEND:**
- EXISTING TREE TO REMAIN
  - EXISTING PALM TO REMAIN
  - ⊗ EXISTING TREE TO BE REMOVED AND/OR RELOCATED
  - ⊗ EXISTING PALM TO BE REMOVED AND/OR RELOCATED

| REVISIONS |    |             |      |    |             |
|-----------|----|-------------|------|----|-------------|
| DATE      | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|           |    |             |      |    |             |
|           |    |             |      |    |             |
|           |    |             |      |    |             |

| DESIGNED BY    | NAME   | DATE | DRAWN BY   | NAME   | DATE |
|----------------|--------|------|------------|--------|------|
|                | A.K.   |      |            | J.M.   |      |
| CHECKED BY     | L.A.O. |      | CHECKED BY | L.A.O. |      |
| SUPERVISED BY: |        |      |            |        |      |

**MIAMI-DADE COUNTY**  
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
 STEPHEN P. CLARK, CHIEF  
 100 N.W. 25th Street  
 MIAMI, FLORIDA 33138

**LANDSCAPE PLAN**

P:\MyP\Planning\Highway\Old Cutler Road - Roundabouts\Plan (CAD & PDF files)\2015-05-09 TREE PLANS.dwg Feb 14, 2022 1:16pm E210983

STANDARD SYMBOLS FOR PLAN SHEETS

| SYMBOLS |   |
|---------|---|
|         | STATE LINE                                  |
|         | COUNTY LINE                                 |
|         | TOWNSHIP LINE                               |
|         | SECTION LINE                                |
|         | CITY LINE                                   |
|         | BASE OR SURVEY LINE                         |
|         | RIGHT-OF-WAY LINE                           |
|         | LIMITED ACCESS LINE                         |
|         | FENCE LINE                                  |
|         | NATIONAL OR STATE PARK OR FOREST            |
|         | GRANT LINE                                  |
|         | RAILROAD (DRAINAGE MAPS)                    |
|         | RAILROAD (DETAIL PLANS)                     |
|         | FENCE (LIMITED ACCESS)                      |
|         | BOX CULVERT                                 |
|         | BRIDGE                                      |
|         | STORM SEWER                                 |
|         | INLET                                       |
|         | MANHOLE                                     |
|         | TIED LONGITUDINAL JOINT                     |
|         | KEYED LONGITUDINAL JOINT                    |
|         | DOWELED TRANSVERSE EXPANSION JOINT          |
|         | DOWELED TRANSVERSE CONTRACTION JOINT        |
|         | TRANSVERSE CONTRACTION JOINT WITHOUT DOWELS |
|         | TRIANGULATION STATION                       |
|         | BENCH MARK                                  |
|         | POINT OF INTERSECTION                       |
|         | NORTH POINT                                 |
|         | EDGES OF EXISTING PAVEMENT AND SIDEWALK     |
|         | BASE LINE                                   |
|         | CENTERLINE                                  |
|         | PROPERTY LINE                               |
|         | DELTA ANGLE                                 |
|         | APPROXIMATE                                 |
|         | ROUND                                       |
|         | CURB  |
|         | CURB AND GUTTER                             |
|         | WATER WELL, SPRING                          |
|         | LEVEE                                       |
|         | RAILROAD MILE POST                          |
|         | GATE  |
|         | PUMP ISLAND                                 |
|         | STORAGE TANK ( SURFACE )                    |
|         | STORAGE TANK ( UNDERGROUND )                |

| SYMBOLS |                        |
|---------|------------------------|
|         | MINE OR QUARRY         |
|         | BORROW PIT             |
|         | CHURCH                 |
|         | STORE                  |
|         | RESIDENCE              |
|         | BARN                   |
|         | SCHOOL                 |
|         | STREAM                 |
|         | SHORE LINE             |
|         | MARSH                  |
|         | HEDGE                  |
|         | TREES                  |
|         | EDGE OF WOODED AREA    |
|         | SHRUBBERY              |
|         | GROVE OR ORCHARD       |
|         | DEFINITION OF SKEW     |
|         | CONCRETE               |
|         | WOOD                   |
|         | RATE OF SUPERELEVATION |

| UTILITY ADJUSTMENT SYMBOLS   |          |          |
|------------------------------|----------|----------|
|                              | EXISTING | PROPOSED |
| POWER POLE                   |          |          |
| OVERHEAD POWER CABLE         |          |          |
| TELEPHONE POLE               |          |          |
| OVERHEAD TELEPHONE CABLE     |          |          |
| COMBINATION POLE             |          |          |
| GUY WIRE AND ANCHOR PIN      |          |          |
| BURIED POWER CABLE           |          |          |
| ELECTRIC DUCT                |          |          |
| BURIED TELEPHONE CABLE       |          |          |
| TELEPHONE DUCT               |          |          |
| TOWER                        |          |          |
| LIGHT POLE                   |          |          |
| GAS MAIN                     |          |          |
| WATER MAIN                   |          |          |
| SANITARY SEWER               |          |          |
| MANHOLE                      |          |          |
| WATER METER                  |          |          |
| VALVE                        |          |          |
| FIRE HYDRANT                 |          |          |
| UNDERGROUND CABLE TELEVISION |          |          |
| OVERHEAD CABLE TELEVISION    |          |          |

FINAL APPROVED: 7-7-75 *Sheet No. 85*

|  |                |                                    |                |
|--|----------------|------------------------------------|----------------|
| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION<br>ROAD DESIGN SECTION |                |                                    |                |
| STANDARD SYMBOLS FOR KEY SHEETS AND PLAN SHEETS                      |                |                                    |                |
| DESIGNED BY<br>A.K.  | DATE<br>L.A.O. | DRAWN BY<br>J.M.                   | DATE<br>L.A.O. |
| CHECKED BY<br>C.O.R.   | DATE<br>8-71   | QUANTITIES BY                      | DATE           |
| CHECKED BY   | DATE           | CHECKED BY                         | DATE           |
| SUPERVISED BY<br>D.C.B.  | DATE           | STATE DESIGN ENGINEER<br>G.S.S.-01 | DATE           |

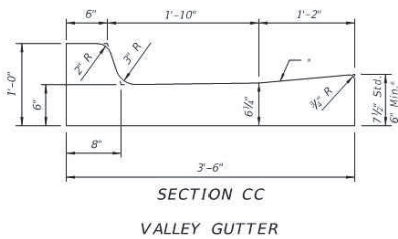
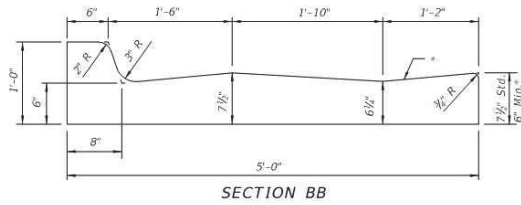
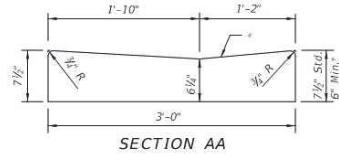
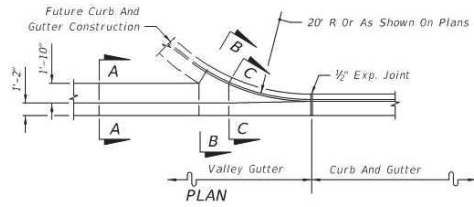
REVISIONS

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|------|----|-------------|------|----|-------------|
|      |    |             |      |    |             |

| DESIGNED BY | NAME   | DATE | DRAWN BY | NAME | DATE |
|-------------|--------|------|----------|------|------|
|             | A.K.   |      | J.M.     |      |      |
|             | L.A.O. |      | L.A.O.   |      |      |

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
HIGHWAY DIVISION  
MIAMI-DADE COUNTY  
CORNER S. CLAY CENTER  
MIAMI, FLORIDA 33138

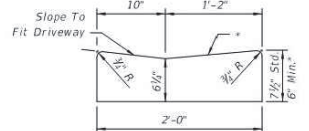
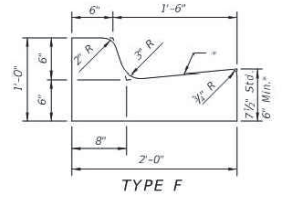
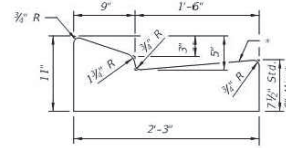
STANDARD SYMBOLS FOR KEY SHEETS AND PLAN SHEETS



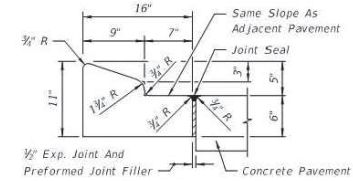
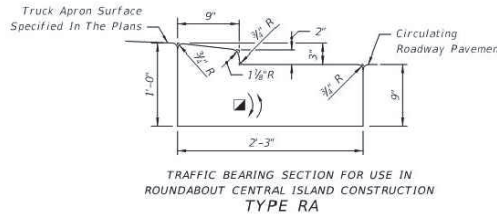
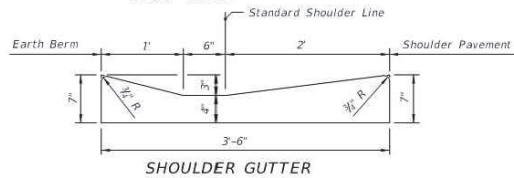
\* When used on high side of roadways, the cross slope of the gutter shall match the cross slope of the adjacent pavement. The thickness of the lip shall be 6", unless otherwise shown on plans.

■ Rotate entire section so that gutter cross slope matches slope of adjacent circulating roadway pavement.

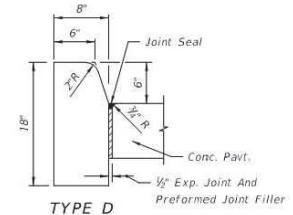
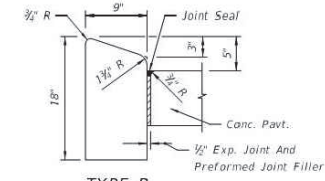
For use adjacent to concrete or flexible pavement. For details depicting usage adjacent to flexible pavement, see Sheet 2. Expansion joint, preformed joint filler and joint seal are required between curb & gutter and concrete pavement only, see Sheet 2.



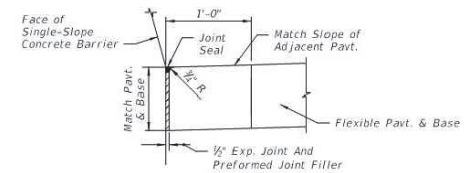
Note: To be paid for as parent curb.



For details depicting usage adjacent to flexible pavement, see Sheet 2.



Note: For use adjacent to concrete or flexible pavement, concrete shown. Expansion joint, preformed joint filler and joint seal are required between curbs and concrete pavement only, see Sheet 2.



(See the toll site details for conduit requirements)

CONCRETE CURB AND GUTTER

LAST REVISION  
 11/01/20

DESCRIPTION:



FY 2021-22  
 STANDARD PLANS

CURB AND GUTTER

INDEX  
 520-001

SHEET  
 1 of 2

| REVISIONS |    |             |      |    |             |
|-----------|----|-------------|------|----|-------------|
| DATE      | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|           |    |             |      |    |             |

| DESIGNED BY | NAME   | DATE | DRAWN BY | NAME   | DATE |
|-------------|--------|------|----------|--------|------|
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|             | L.A.O. |      |          | L.A.O. |      |

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
**MIAMI-DADE COUNTY**  
 STEPHEN P. CLARK CENTER  
 1300 N.W. 11th St.  
 MIAMI, FLORIDA 33138

CURB AND GUTTER