

CITY OF MIAMI
 CAPITAL IMPROVEMENTS PROGRAM
 JEOVANNY RODRIGUEZ, P.E., DIRECTOR
 GROVE PARK ROAD IMPROVEMENT
 PHASE III-D3



Commissioner:

Mayor

Francis Suarez

Chairman / D1 Commissioner

Wifredo (Willy) Gort

Vice Chairman / D2 Commissioner

Ken Russell

D3 Commissioner

Joe Carollo

D4 Commissioner

Manolo Reyes

D5 Commissioner

Keon Hardemon

City Manager

Daniel J. Alfonso

NW 21st CT (FROM NW 7th STREET TO NW 9th STREET)
 NW 19th CT (FROM NW 7th STREET TO NW 9th STREET)
 NW 19th AVE (FROM NW 7th STREET TO NW 9th STREET)
 NW 18th CT (FROM NW 7th STREET TO NW 8th STREET)
 NW 8th STREET (FROM NW 18th CT TO NW 18th AVE)

PROJECT No B-40347

ROADWAY SHOP DRAWINGS
 TO BE SUBMITTED TO:
 CARLOS M. HERDOCIA, PE
 PROJECT MANAGER
 STANTEC

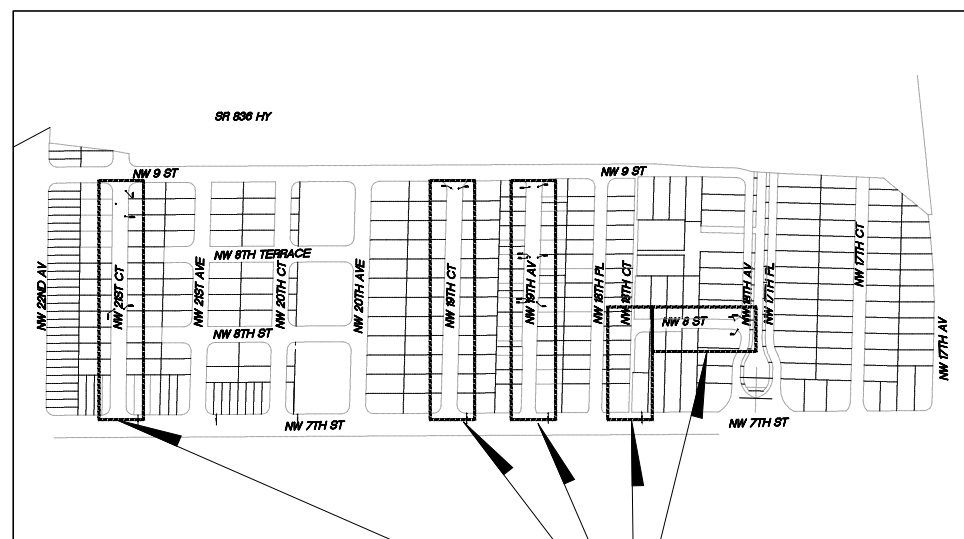
PLANS PREPARED BY:



901 PONCE DE LEON BLVD STE 900
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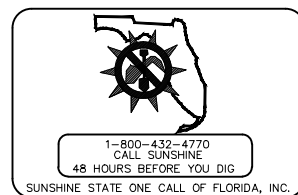
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LOCATION MAP
 SCALE : 1" = 1000'

PROJECT LOCATION



ENGINEER'S CERTIFICATION:
 THIS PLAN WAS PREPARED UNDER MY DIRECTION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLIES WITH THE INTENT OF THE MANUAL OF UNIFORM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS, AS ADOPTED BY THE STATE OF FLORIDA LEGISLATURE, CHAPTER 72-328 F.S.

GOVERNING STANDARDS AND SPECIFICATIONS:

- CITY OF MIAMI ENGINEERING STANDARDS FOR DESIGN AND CONSTRUCTION DATED DECEMBER 2010.
- FLORIDA DEPARTMENT OF TRANSPORTATION, DESIGN STANDARDS DATED 2016, AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2016, AS AMENDED BY CONTRACT DOCUMENTS.

CITY OF MIAMI PROJECT MANAGER: JUAN RAMIREZ
 CITY OF MIAMI CONSTRUCTION MANAGER: DAVID ADATO, PE.

100% SUBMITTAL
 JANUARY, 2018

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

ROADWAY PLANS
 ENGINEER OF RECORD: CARLOS M. HERDOCIA, PE

P.E. NO.: 47660

SHEET NO.

C-00

GENERAL NOTES:

1. THE INFORMATION PROVIDED ON THE PLANS IS BASED ON THE BEST AVAILABLE INFORMATION AND SHOULD BE CONSIDERED APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH CURRENT SITE CONDITIONS, AND SHALL REPORT DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
2. CONTRACTOR WILL SECURE WORK SITE TO PROTECT THE PUBLIC HEALTH AND WELFARE.
3. THE CONTRACTOR WILL SECURE AND PAY FOR ALL PERMITS FOR THE WORK NECESSARY TO COMPLETE THIS PROJECT. CONTRACTOR SHALL COORDINATE EFFORTS WITH THE CITY'S PW DEPARTMENT.
4. ALL WORK WILL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF MIAMI ENGINEERING STANDARDS FOR DESIGN AND CONSTRUCTION, AND FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DIVISIONS 2 AND 3, LATEST EDITION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER AND IN STRICTLY COMPLIANCE WITH ALL THE REQUIREMENTS OF FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AND ALL STATE AND LOCAL SAFETY AND HEALTH REGULATION.
6. CONTRACTOR TO REPAIR ALL DAMAGES INCURRED AS A RESULT OF CONSTRUCTION ACTIVITIES SUCH AS BUT NOT LIMITED TO SIDEWALK, PAVEMENT, LANDSCAPING, FENCING, ETC. NO ADDITIONAL COMPENSATION WILL BE GIVEN.
7. THE CONTRACTOR SHALL USE A STREET SWEEPER (USING WATER) OR OTHER EQUIPMENT FOR CONTROLLING AND REMOVING DUST. APPROVAL OF THE USE OF SUCH EQUIPMENT IS CONTINGENT UPON ITS DEMONSTRATED ABILITY TO DO THE WORK. CLEANING AND SWEEPING IS TO BE INCLUDED IN CONTRACTORS MAINTENANCE OF TRAFFIC PAY ITEM AND SHALL BE DONE ON A DAILY BASIS.
8. ALL PUBLIC LAND CORNERS AND MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED BY THE CONTRACTOR AS FOLLOWS: CORNERS AND MONUMENTS IN CONFLICT WITH THE WORK AND IN DANGER OF BEING DAMAGED, DESTROYED OR COVERED SHALL BE PROPERLY REFERENCED BY A REGISTERED LAND SURVEYOR IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS. PRIOR TO BEGINNING WORK AT THE SITE, THE CONTRACTOR SHALL RETAIN THE LAND SURVEYOR TO REFERENCE, AND RESTORE UPON COMPLETION OF THE WORK, ALL SUCH CORNERS AND MONUMENTS AND SHALL FURNISH THE ENGINEER A SIGNED AND SEALED COPY OF THE LAND SURVEYOR'S REFERENCE DRAWING. COST OF THIS WORK SHALL BE DEEMED INCIDENTAL TO THE TOTAL PROJECT COST.
9. THE CONTRACTOR SHALL NOTIFY THE CITY IN WRITING AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A PROPER STAGING AREA APPROVED BY THE CITY. STOCKPILING OF MATERIAL IN ROADWAY IS NOT ALLOWED.
11. THE CONTRACTOR SHALL BE RESPONSIBLE TO SATISFY ALL REQUIREMENTS OF ANY REGULATORY AGENCY PERMITS IN REGARDS TO CONSTRUCTION ACTIVITIES AND RELATED CONDITIONS PRIOR TO THE START OF CONSTRUCTION.
12. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN AND VEHICULAR ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES UNLESS OTHERWISE APPROVED BY THE CITY.
13. THE CONTRACTOR SHALL NOT ENCROACH INTO PRIVATE PROPERTY WITH PERSONNEL, MATERIAL OR EQUIPMENT.
14. THE CONTRACTOR SHALL VERIFY, PHOTOGRAPH, AND INVENTORY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES, PAVEMENT OR OTHER FEATURES. ANY EXISTING STRUCTURE, PAVEMENT, TREE OR OTHER EXISTING FEATURE, WHICH IS IN CONFLICT OR IS DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THE CONTRACT, SHALL BE RESTORED PROMPTLY TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE PROJECT.
15. THE CONTRACTOR SHALL NOTIFY THE CITY OF MIAMI'S CONSTRUCTION MANAGER IMMEDIATELY OF ANY CONFLICT ARISING DURING CONSTRUCTION FOR ANY IMPROVEMENTS SHOWN ON THESE DRAWINGS.
16. THE CONSTRUCTION LAYOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
17. ALL EXISTING MANHOLE TOPS, CATCH BASIN GRATES, VALVE BOX TOPS, AND WATER METER TOPS WITHIN THE PROJECT AREA SHALL BE ADJUSTED TO MATCH FINISHED GRADE BY CITY CONTRACTOR. PLANS MAY NOT SHOW ALL LOCATIONS NECESSARY FOR ADJUSTMENTS. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL NECESSARY UTILITY TOPS TO BE ADJUSTED.
18. CONTRACTOR TO RESTORE ALL SODDED AREAS OF THE PROJECT WHICH ARE DISTURBED DUE TO CONSTRUCTION ACTIVITIES.
19. ALL PROPOSED WORK SHALL BE PERFORMED WITHIN THE LIMITS OF THE EXISTING STATE/LOCAL RIGHT-OF-WAY.
20. THE CONTRACTOR SHALL ASSIST THE CITY WITH THE HANDLING OF PUBLIC INFORMATION MATERIALS, INCLUDING CITIZEN NOTIFICATION LETTERS AND PROJECT CONSTRUCTION SIGNS, PRIOR TO THE START OF EACH SIGNIFICANT PHASE OF CONSTRUCTION. COST OF THIS WORK SHALL BE INCLUDED IN THE MAINTENANCE OF TRAFFIC BID ITEM.

ENVIRONMENTAL NOTES:

21. DUE TO THE LIMITED SCOPE OF WORK, NO IMPACTS TO EXISTING HISTORICAL AND CULTURAL RESOURCES ARE EXPECTED AS A RESULT OF THE PROPOSED ACTION.
22. NO STAGING OR OTHER ACTIVITIES FOR THIS PROJECT SHOULD OCCUR WITHIN THE DRIPLINE OF EXISTING TREES.
23. PREVENT DAMAGING TREES AND PLANTERS WITHIN OR IMMEDIATELY ADJACENT TO THE PROJECT'S RIGHT-OF-WAY.
24. A ARBORIST CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE SHALL BE PRESENT ON SITE TO DIRECT ALL ROOT PRUNING AND/OR CANOPY TRIMMING ACTIVITIES.
25. TREE PROTECTION SHOULD BE INSTALLED AROUND TREES TO REMAIN LOCATED ADJACENT TO CONSTRUCTION ACTIVITIES.
26. THE CONTRACTOR SHALL NOT REMOVE, RELOCATE OR PRUNE ANY TREES WITHOUT PRIOR APPROVAL FROM THE CITY. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM THE CITY OF MIAMI PUBLIC WORKS DEPARTMENT PRIOR TO ANY TREE REMOVAL/RELOCATION.

DRAINAGE NOTES:

27. CONTRACTOR SHALL KEEP NEW AND EXISTING INLETS CLEAN OF MILLING MATERIALS AND DEBRIS. INLETS LOCATED NEAR CONSTRUCTION ACTIVITIES SHOULD BE PROTECTED BY APPROPRIATE EROSION CONTROL DEVICES.
28. THERE SHALL BE NO MORE THAN THREE LATERAL DRAINAGE INSTALLATION WITHOUT BACKFILLING. OF LATERAL DRAINAGE SHALL NOT LAG MORE THAN 72 HOURS BEHIND THE START OF EXCAVATION.
29. ELEVATION AND OFFSETS FOR CURBS INLETS ARE GIVEN AT THE EDGE OF PAVEMENT.

PRE-CONSTRUCTION RESPONSIBILITIES:

1. PRIOR TO THE COMMENCEMENT OF THE CONSTRUCTION AND THE RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT THE C.I.P. CONSTRUCTION MANAGER AND ARRANGE A PRE-CONSTRUCTION CONFERENCE TO INCLUDE THE ENGINEER OF RECORD. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE AND BE PREPARED TO DISCUSS ANY CONCERNS OR COORDINATION EFFORTS AND REQUIREMENTS WITH THE PARTIES INVOLVED.
2. THE CONTRACTOR SHALL OBTAIN A SUNSHINE STATE ONE CALL OF FLORIDA, INC. CERTIFICATION NUMBER AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION. CONTACT 811, WWW.CALLSUNSHINE.COM

PROJECT RECORD DOCUMENTS:

1. DURING THE DAILY PROGRESS OF THE JOB THE CONTRACTOR SHALL RECORD THE EXACT LOCATION, LENGTH, AND ELEVATION OF ALL PROPOSED IMPROVEMENTS ON HIS SET OF CONSTRUCTION DRAWINGS.
2. UPON COMPLETION OF CONSTRUCTION AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER TWO COMPLETE SETS OF ALL "AS BUILT" CONSTRUCTION DRAWINGS. THE DRAWINGS SHALL INCLUDE CHANGES AND DIMENSIONS, LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS AND SHALL BE IN ACCORDANCE WITH THE "SURVEY WORK" SECTION OF THE "SPECIFICATIONS AND CONTRACT DOCUMENTS" FOR THIS PROJECT.
3. ALL "AS-BUILT" INFORMATION AND ELEVATIONS SHALL BE CERTIFIED BY A FLORIDA REGISTERED LAND SURVEYOR AND ALL FINAL MEASUREMENTS ARE TO BE IN THE FORM OF FIELD NOTES, PLANS AND CD (PDF FORMAT).
4. AS-BUILTS SHALL UTILIZE THE CITY OF MIAMI VERTICAL DATUM.

UTILITIES:

1. TWO FULL BUSINESS DAYS PRIOR TO DIGGING, THE CONTRACTOR SHALL CONTACT 811, WWW.CALLSUNSHINE.COM TO REQUEST UTILITY LOCATIONS BEFORE BEGINNING ANY CONSTRUCTION ACTIVITIES.
2. EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE DURING CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE UTILITY OWNER. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED.
3. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO (VERTICALLY AND HORIZONTALLY) PROTECT AND ALL EXISTING UTILITIES ON THIS PROJECT. ANY DAMAGE TO UTILITIES SHALL BE IMMEDIATELY REPORTED TO THE UTILITY OWNER. THE OWNER RESERVES THE RIGHT TO REMEDY SUCH DAMAGE BY ORDERING OUTSIDE PARTIES TO MAKE SUCH REPAIRS AT THE EXPENSE TO THE CONTRACTOR.
4. THE CONTRACTOR IS ADVISED THAT PROPERTIES ADJACENT TO THE PROJECT HAVE ELECTRIC, TELEPHONE, GAS, WATER AND/OR SEWER SERVICE LATERALS WHICH MAY NOT BE SHOWN IN PLANS. THE CONTRACTOR MUST REQUEST THE LOCATION OF THESE LATERAL SERVICES FROM THE UTILITY COMPANIES. THE ADDITIONAL COST OF EXCAVATING, INSTALLING, BACKFILLING AND COMPACTING AROUND THESE LATERAL SERVICES MUST BE INCLUDED IN THE BID RELATED ITEM FOR THE WORK BEING DONE.
5. UTILITY OWNERS (LIST ALL UTILITY OWNERS IDENTIFIED WITHIN THE PROJECT LIMITS IN THE FORMAT SHOWN BELOW USING THE LATEST CONTACT INFORMATION FOUND IN THE DOCUMENT UTILITY CONTACT LIST.PDF UNDER THE UTILITIES FOLDER IN THE D6 ERC DOCUMENT LIBRARY):

AT&T	(305) 222-8745
COMCAST CABLE	(954) 447-8405
MIAMI DADE PUBLIC WORKS	(305) 412-0891
FPL	(800) 868-9554
M-DWASD	(786) 268-5320
TECO PEOPLE GAS	(954) 453-0824

REVISIONS

DATE	BY	DESCRIPTION

EOR

CARLOS M. HERDOCIA, PE.
#47660



CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM
444 S.W. 2ND AVENUE, 8TH FLOOR
MIAMI, FLORIDA 33130
(305) 416-1213 FAX (305) 416-1253

CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM

PROJECT NAME	PROJECT No.
CITY OF MIAMI GROVE PARK ROADWAY & DRAINAGE IMPROVEMENTS	B-40347

901 Ponce de Leon Blvd. Suite 900
Coral Gables, Florida
33134
Tel. 305-445-2900
Fax. 305-445-3344
www.stantec.com

GENERAL NOTES

SHEET
NO.

G-02

TRAFFIC CONTROL PLANS:

- TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH THE PROJECT PLANS, 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.
- NOTIFICATION OF LANE CLOSURES OR TEMPORARY DETOURS SHALL BE ACCOMPLISHED 14 WORKING DAYS PRIOR TO CLOSURE. DETOUR OR MOT PHASE CHANGE SHALL BE SUBMITTED WITH THE REQUIRED LANE CLOSURE FORM, SKETCHES, CALCULATIONS, AND OTHER DATA TO PUBLIC WORKS DEPT.
- 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.
- 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.
- LANE CLOSURE SHALL OCCUR ONLY DURING NON-PEAK HOURS ON NON-EVENT DAYS/NIGHTS/WEEKENDS. NON-PEAK HOURS ARE: 9:00 AM TO 3:30 PM WEEKDAYS AND SATURDAYS. EXCEPTIONS MAY BE GRANTED UPON WRITTEN REQUEST TO THE CITY.
- TRAFFIC CONTROL PLANS FOR ALL PHASES ARE DESIGNED FOR NON-PEAK HOURS ONLY. THE CONTRACTOR SHALL KEEP ALL EXISTING LANES OPEN DURING PEAK HOURS IN THESE PHASES.
- 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 MAINTENANCE OF TRAFFIC PAY ITEM.
- 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 MAINTENANCE OF TRAFFIC PAY ITEM.
- TEMPORARY LANE TRANSITIONS, SHIFTS, AND CROSSEOVERS 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 TANGENT BEYOND EACH END OF THE TRANSITION, SHIFT, OR CROSSOVER. EXCEPTION SHALL BE THROUGH INTERSECTIONS WHERE 2 FT TO 4 FT SKIP LINES WILL BE PLACED.
- ALL TEMPORARY STRIPES AND MARKINGS SHALL BE PAINT ONLY, UNLESS OTHERWISE SPECIFIED ON THE PLANS OR APPROVED BY THE ENGINEER. COST OF TEMPORARY STRIPPING SHALL BE INCLUDED IN MOT PAY ITEM.
- EACH EXISTING STREET NAME AND STOP 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 TO THEIR ORIGINAL POSITION. COST OF TEMPORARILY RELOCATING AND RESTORING THE SIGNS SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEM.
- FOR DROP OFFS, THE CONTRACTOR'S SHALL FOLLOW TO FDOT STANDARD INDEX NO. 600, SHEET 10 OF 13. THE CONTRACTOR SHALL USE SHOULDER TREATMENT DETAIL WHEN NO BARRIERS ARE REQUIRED IN THE PLANS.
- CONTRACTOR SHALL PREPARE AND SUBMIT AN ACCEPTABLE MOT PLAN FOR THE PROJECT. THE MOT PLAN SHALL BE SUBMITTED TO THE CITY OF MIAMI'S PUBLIC WORKS DEPARTMENT FOR REVIEW AND APPROVAL.
- LANE CLOSURES SHALL NOT BE PERMITTED DURING SCHOOL SPEED ZONE HOURS WHERE SUCH CLOSURES WILL AFFECT TRAFFIC FLOW IN THE VICINITY OF THE SCHOOL SPEED ZONES.

WORK ZONE LIMITS:

- THE LENGTH OF AN OPEN TRENCH SHALL NOT EXCEED 500 FT. PROPERTY ACCESS SHALL BE MAINTAINED IN ACCORDANCE TO ARTICLE 102- 5.5 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION.
- NO MORE THAN TWO BLOCKS OF STREET SHALL BE UNDER CONSTRUCTION AT A TIME AND ALL WORK AND RESTORATION SHALL BE COMPLETED ON ONE OF SUCH BLOCKS BEFORE WORK MAY BEGIN IN A NEW BLOCK. FINAL RESURFACING SHALL BE PLACED WITHIN 48 HOURS OF THE MILLING OPERATION.

INTERSECTIONS:

- ADJACENT INTERSECTIONS SHALL NOT BE CONSTRUCTED SIMULTANEOUSLY UNLESS DIRECTED BY THE ENGINEER.
- INTERSECTIONS SHALL BE RECONSTRUCTED WORKING ON A CONTINUOUS DAILY BASIS UNTIL COMPLETE AND UNTIL THE STRUCTURAL COURSE IS PLACED.
- M.O.T. TRANSITIONS AND TEMPORARY INTERSECTION CROSSEOVERS WHERE CONSTRUCTION HAS CAUSED GRADE DIFFERENCES BETWEEN THE EXISTING AND NEW ROADWAYS SHALL BE CONSTRUCTED USING A 1:20 TYPE SP ASPHALT CONCRETE SLOPE TO ACCOMMODATE VEHICULAR TRAFFIC FROM ANY DIRECTION. ALL MATERIAL AND WORK, INCLUDING ITS REMOVAL, SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEM.

SIGNALS:

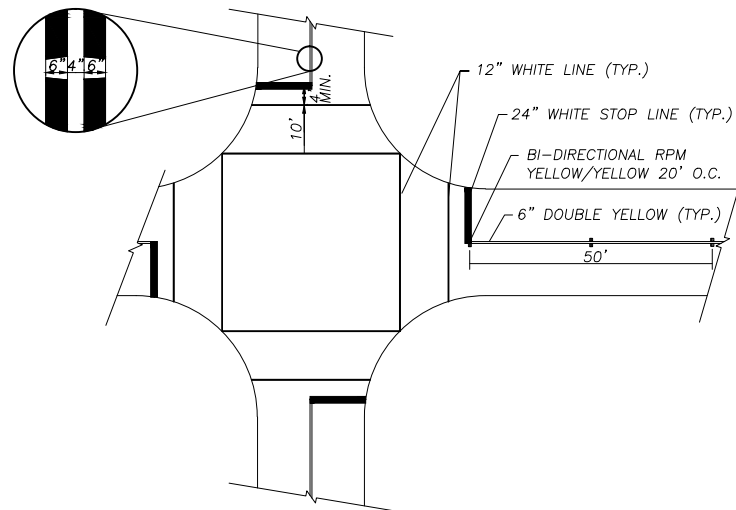
- CONTRACTOR SHALL NOTIFY MIAMI-DADE COUNTY SIGNS AND SIGNALS DIVISION LOCATED AT 7100 N.W. 36TH STREET, MIAMI, FLORIDA 33166 AND PHONE NO. (305) 592-3470, 48 HOURS PRIOR TO ANY MODIFICATION OF AN EXISTING TRAFFIC SIGNAL SYSTEM. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR THE MAINTENANCE OF THE EXISTING OR TEMPORARY TRAFFIC SIGNALS WITHIN THE PROJECT LIMITS. COST OF RELOCATING TRAFFIC SIGNAL HEADS, PROVIDING AND REMOVING TEMPORARY POLES, SIGNAL HEADS, LOOPS ETC., AND MAINTAINING THE EXISTING OR TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEM.
- THE CONTRACTOR SHALL MAINTAIN ONLINE COMMUNICATION OF EXISTING OR TEMPORARY SIGNALIZATION VIA INTERCONNECT OF PHONE LINE DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE TEMPORARY LINES AND CONNECTIONS IF NECESSARY. COST OF MAINTAINING COMMUNICATION, INCLUDING TEMPORARY LINES AND CONNECTIONS SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEM.

PEDESTRIANS, BICYCLES, AND WHEELCHAIRS:

- AT THE END OF EACH WORK DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP OFF GREATER THAN 6 IN. ADJACENT TO THE PEDESTRIAN, BICYCLE, AND WHEELCHAIR TRAVEL PATHS SHALL BE BACKFILLED FLUSH WITH THE SAID PATHS OR PROTECTED WITH TEMPORARY FENCE, CONCRETE BARRIER WALL OR APPROVED HANDRAIL. COST SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEM.
- CONSTRUCTION ACTIVITIES THAT INVOLVES SIDEWALKS ON BOTH SIDES OF THE STREET ARE NOT ALLOWED UNLESS APPROVED BY THE ENGINEER.
- MAINTAIN PEDESTRIAN ACCESS TO BUS STOP LOCATIONS IN PROJECT AREA. IF BUS STOP MUST BE RELOCATED, PLEASE CONTACT MRS. JUDY EMERSON MDTA AT (786) 469-5073, AND NATALIA ONIKIENKO PUBLIC WORKS AT (305) 416-1287.



SIGNING & PAVEMENT MARKING :

- ALL SIGNING AND PAVEMENT MARKINGS INSTALLED AS PART OF THESE PLANS SHALL CONFORM TO THE MOST RECENT EDITION OF THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS. FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS. ALL SIGN PANELS SHALL BE FABRICATED TO COMPLY WITH THE MOST RECENT EDITION OF THE FEDERAL HIGHWAY AND ADMINISTRATION STANDARD HIGHWAY SIGNS.
- THE CONTRACTOR SHALL MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND THE END OF THE PROJECT AND AT ALL SIDE STREETS WITHOUT JOGS AND OFFSETS.
- 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 CONSTRUCTION MANAGER. EXTREME LOCATION CHANGES MUST BE APPROVED BY THE CITY'S PROJECT MANAGER/ENGINEER OF RECORD.
- INCORRECTLY PLACED (THERMOPLASTIC OR) PAINT MARKINGS OVER FRICTION COURSE WILL BE REMOVED BY MILLING AND REPLACING THE FRICTION COURSE A MINIMUM WIDTH OF 18 IN AT THE CONTRACTOR'S EXPENSE. THE ENGINEER MAY APPROVE AN ALTERNATIVE METHOD IF IT CAN BE DEMONSTRATED TO COMPLETELY REMOVE THE MARKINGS WITHOUT DAMAGING THE ASPHALT.
- WHEN NECESSARY 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 DURING CONSTRUCTION. THE STREET NAME SHALL BE REATTACHED TO THE TOP OF THE NEW STOP SIGNS ON MINOR SIDE STREETS AT THE END OF CONSTRUCTION. THE NEW STOP SIGN POST SHALL HAVE ADEQUATE LENGTH TO ACCOMMODATE THE EXISTING STREET NAMES AT THE TOP.
- EXTRUDED ALUMINUM SIGN SUPPORT CLAMPS ARE NOT ACCEPTABLE. ALL RELOCATED SIGNS MUST COMPLY WITH THE STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND ROADWAY DESIGN AND TRAFFIC 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 ITEMS.
- THE CONTRACTOR SHALL SUBMIT A LIST OF THE EXISTING SIGNS TO THE PROJECT ENGINEER AT THE PRE-CONSTRUCTION CONFERENCE. ANY LOST OR DAMAGED DURING CONSTRUCTION SIGNS SHALL BE REPLACED AT NO ADDITIONAL COST. COST OF MAINTAINING THE EXISTING SIGNS TO BE INCLUDED MAINTENANCE OF TRAFFIC PAY ITEM.
- STOP BARS SHALL BE PLACED AT LEAST 5 FEET FROM CROSSWALKS IF TRAFFIC SIGNAL LOOPS ARE INSTALLED.



STOP BARS, CROSS-WALKS AND DOUBLE CENTER LINE DETAILS

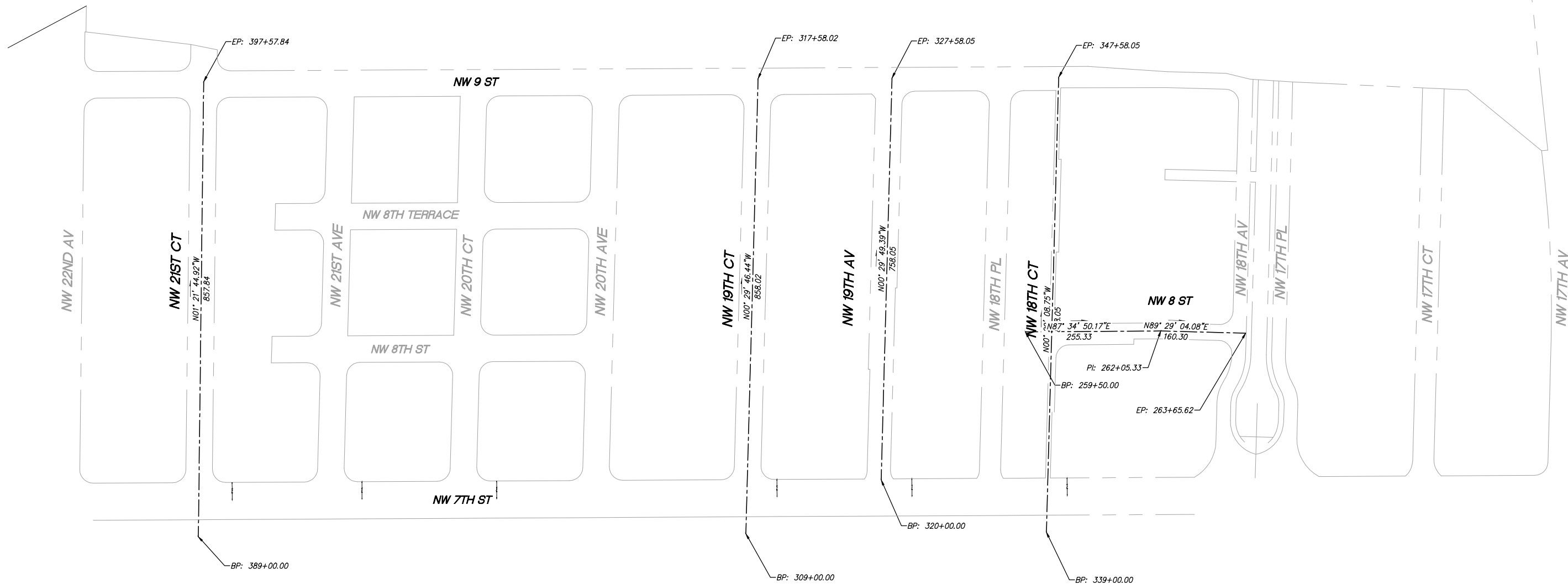
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REVISIONS			EOR	 CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM 444 S.W. 2ND AVENUE, 8TH FLOOR MIAMI, FLORIDA 33130 (305) 416-1213 FAX (305) 416-1253	CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM		 901 Ponce de Leon Blvd, Suite 900 Coral Gables, Florida 33134 Tel. 305-445-2900 Fax. 305-445-3344 www.stantec.com	GENERAL NOTES (2)	SHEET NO. G-03
DATE	BY	DESCRIPTION			PROJECT NAME	PROJECT No.			
			CARLOS M. HERDOCIA, PE. #47660	GROVE PARK ROADWAY & DRAINAGE IMPROVEMENTS	B-40347				



N.T.S.

SR 836 HY



REVISIONS		
DATE	BY	DESCRIPTION

EOR
 CARLOS M. HERDOCIA, PE.
 #47660



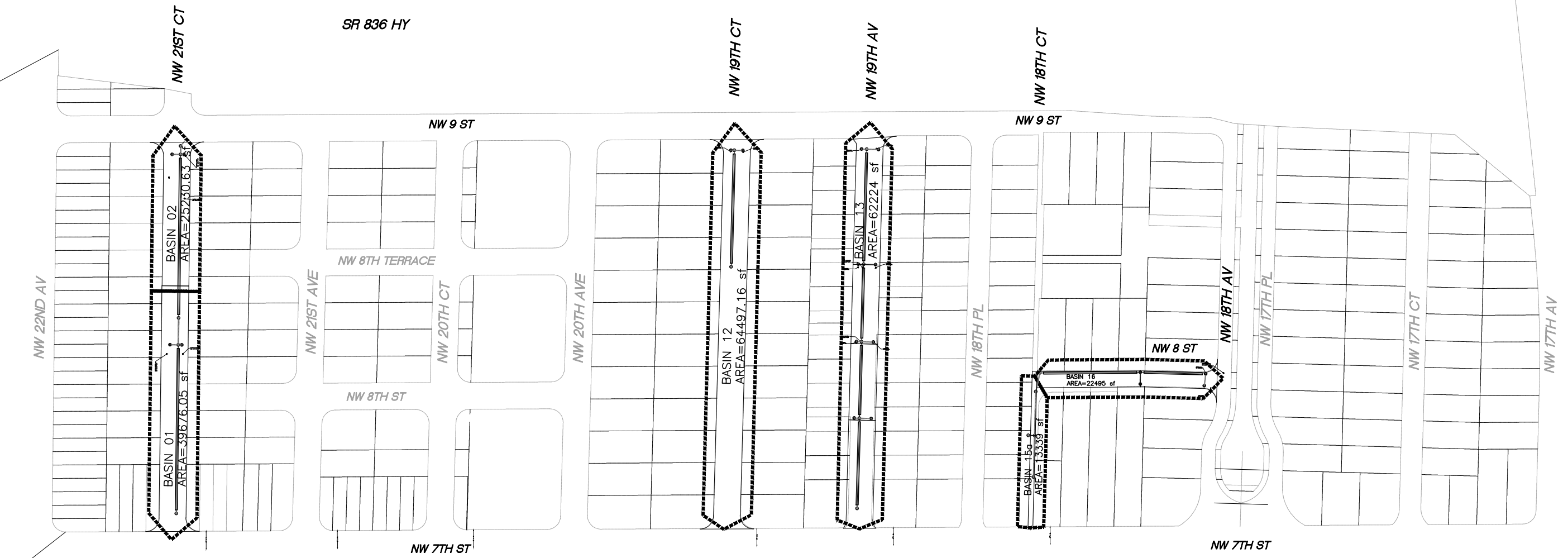
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GENERAL GEOMETRY

SHEET NO.
G-04



REVISIONS		
DATE	BY	DESCRIPTION

EOR
 CARLOS M. HERDOCIA, PE.
 #47660



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PROJECT NAME CITY OF MIAMI GROVE PARK ROADWAY & DRAINAGE IMPROVEMENTS	PROJECT No. B-40347
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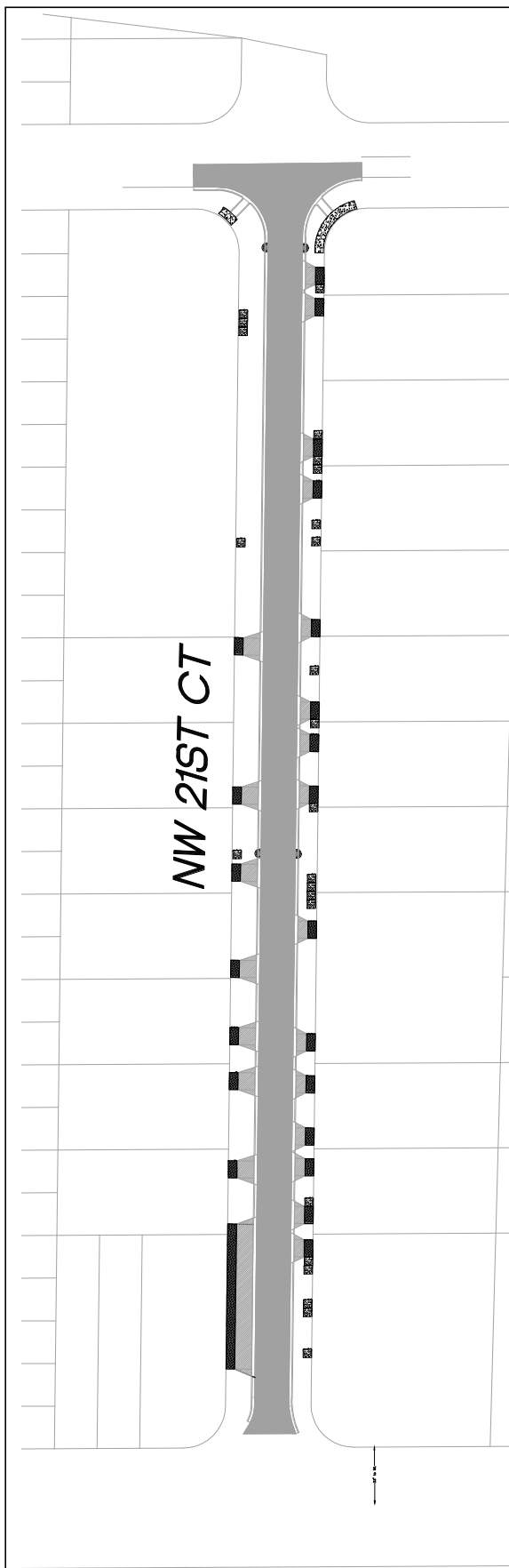
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 901 Ponce de Leon Blvd, Suite 900
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 33134
 Tel. 305-445-2900
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BASIN PLAN

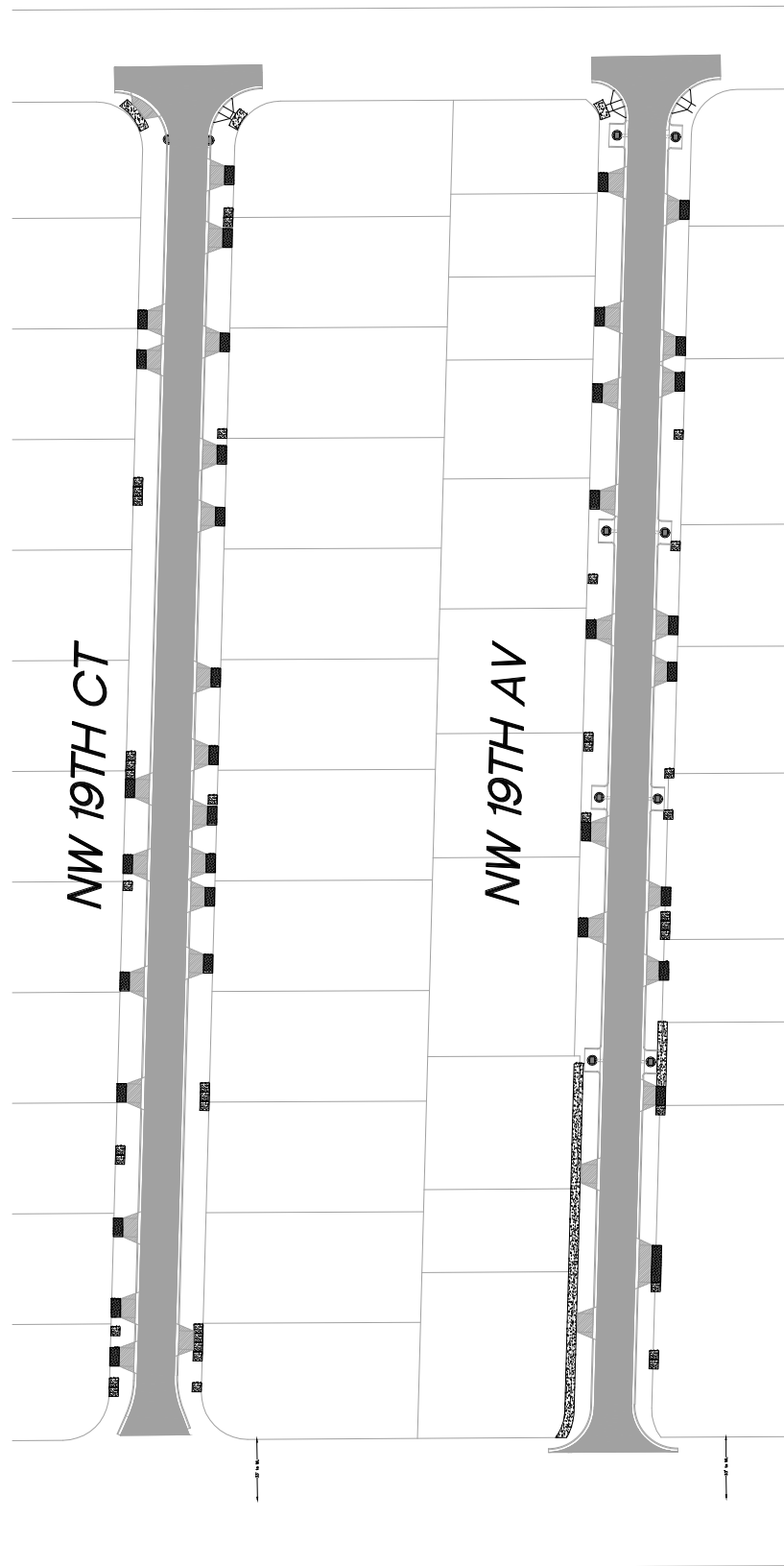
SHEET NO.
G-05



N.T.S.

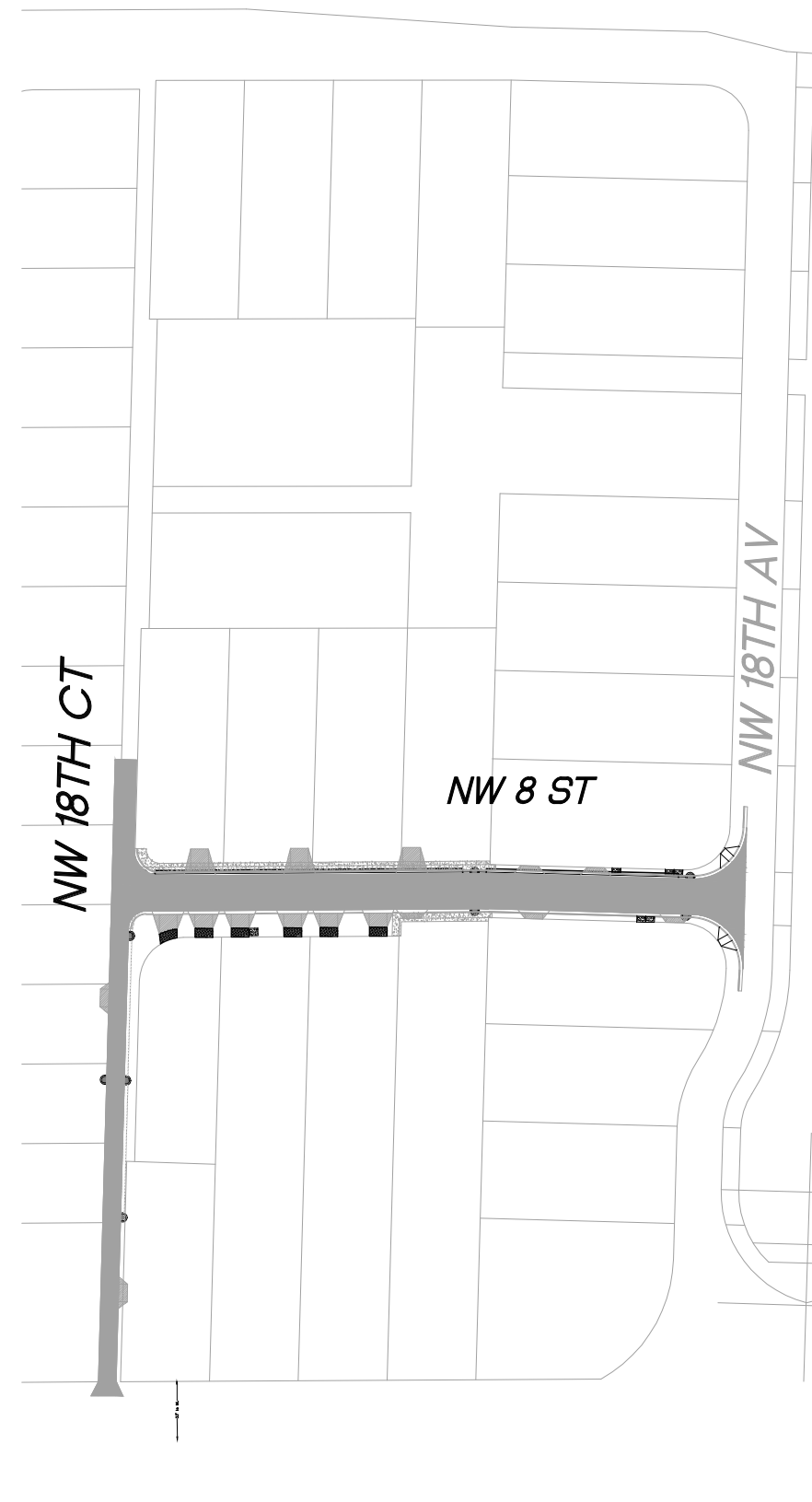


NW 21ST CT



NW 19TH CT

NW 19TH AV



NW 18TH CT

NW 8 ST

NW 18TH AV

REVISIONS		
DATE	BY	DESCRIPTION

EOR

CARLOS M. HERDOCIA, PE.
#47660



CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM
444 S.W. 2ND AVENUE, 8TH FLOOR
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CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM

PROJECT NAME
CITY OF MIAMI
GROVE PARK ROADWAY & DRAINAGE
IMPROVEMENTS

PROJECT No.
B-40347



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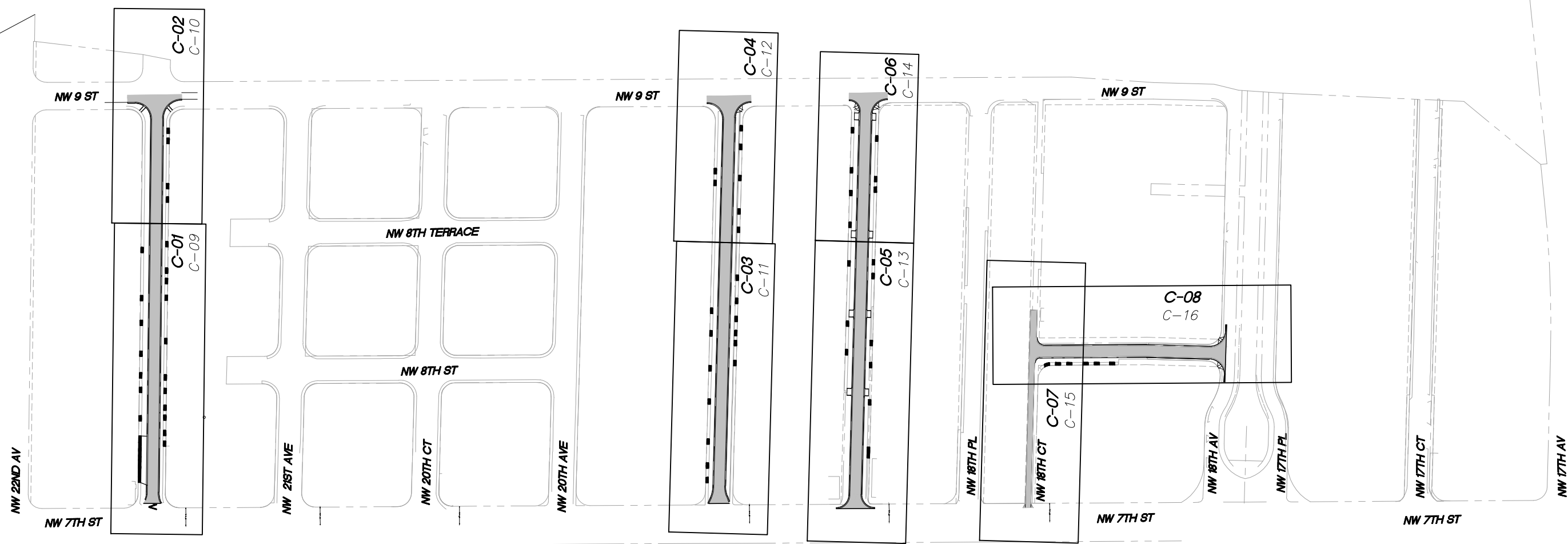
**RECONSTRUCTION - RESURFACING
PLAN**

SHEET
NO.

G-06



Scale: 1" = 100'
(Reduced Scale: 1" = 200')



LEGEND

- C-01** DRAINAGE PLAN AND PROFILES SHEETS
- C-09 SPECIAL PROFILES SHEETS

DRAINAGE PLAN AND PROFILES SHEETS

REVISIONS		
DATE	BY	DESCRIPTION

EOR

CARLOS M. HERDOCIA, PE.
#47660

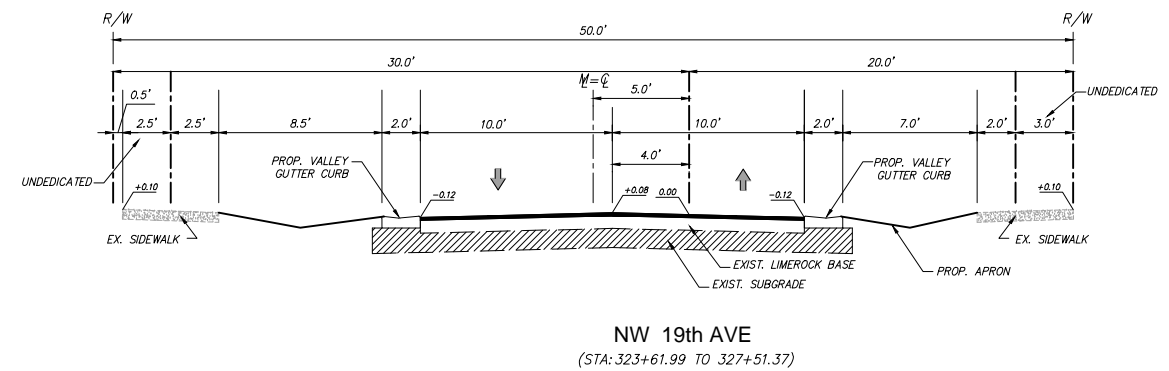
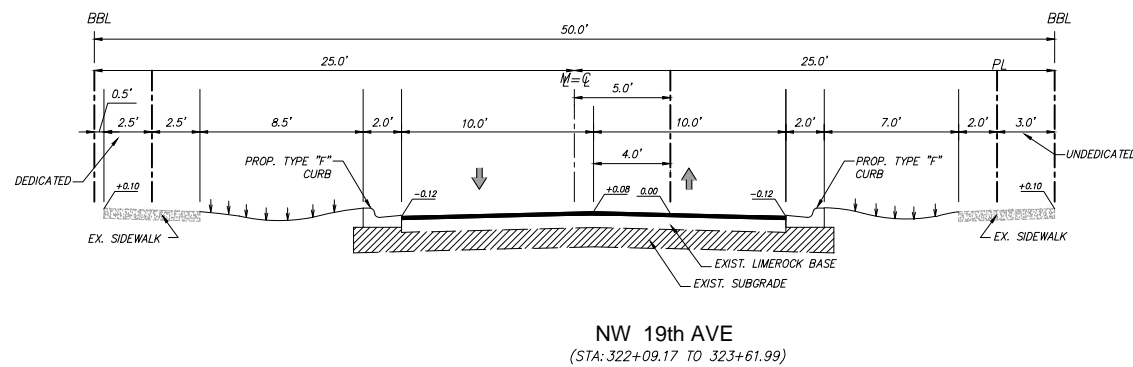
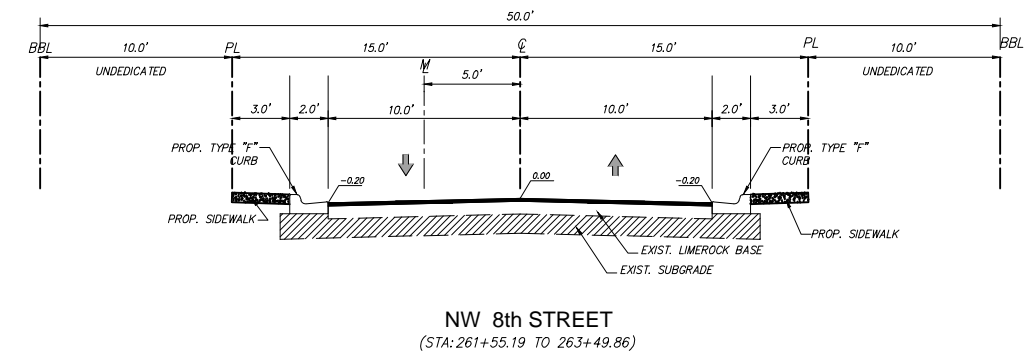
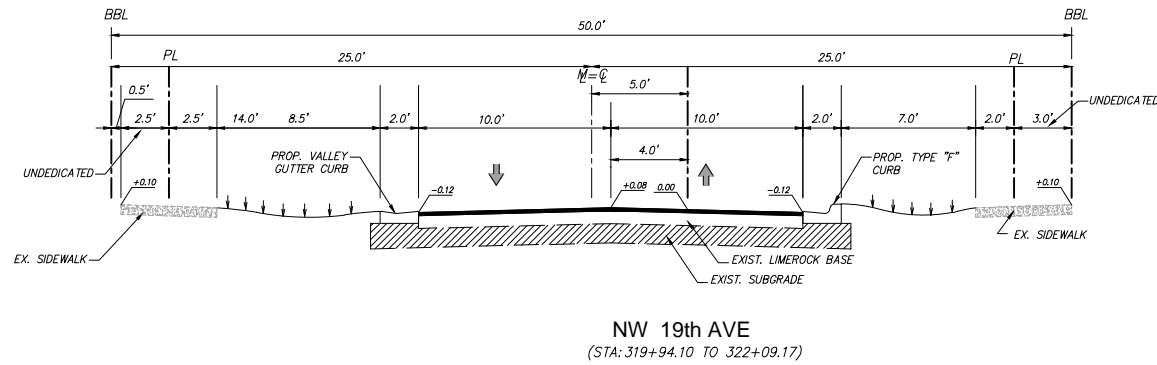
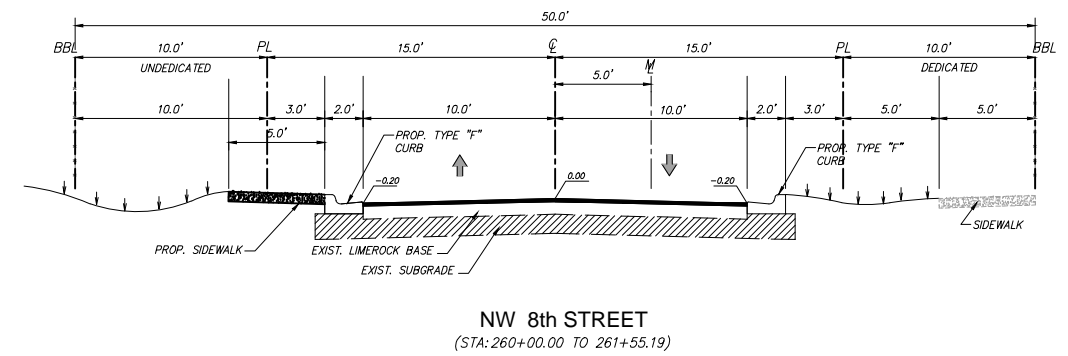
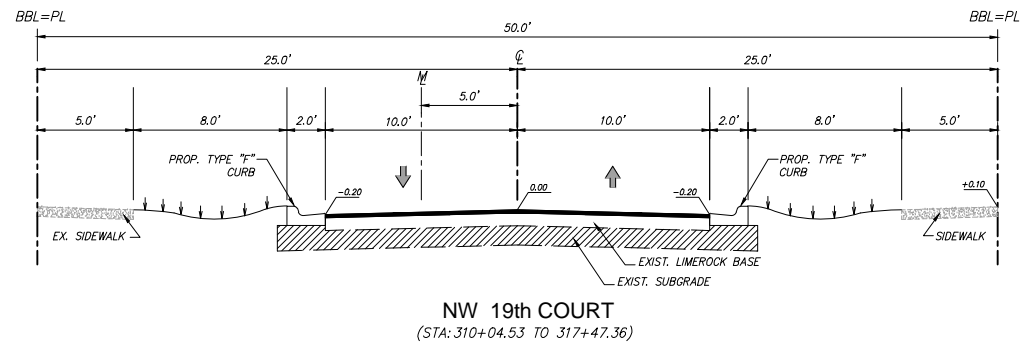
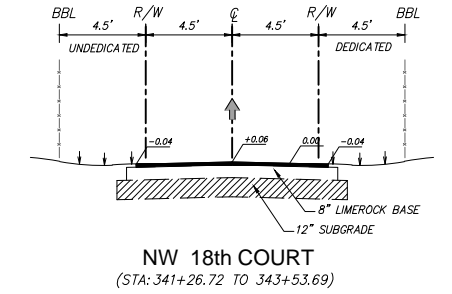
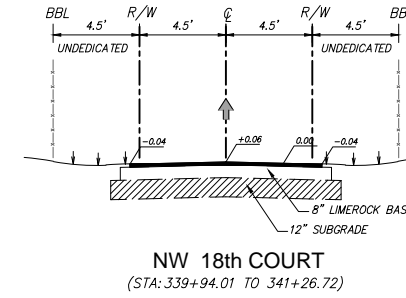
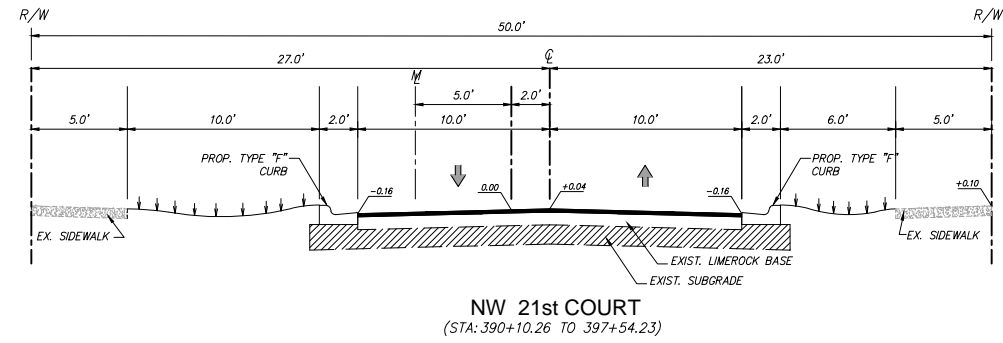


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PROJECT NAME	PROJECT No.
CITY OF MIAMI GROVE PARK ROADWAY & DRAINAGE IMPROVEMENTS	B-40347

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KEY PLAN	SHEET NO. G-07
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REVISIONS		
DATE	BY	DESCRIPTION

EOR

CARLOS M. HERDOCIA, PE.
#47660



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CAPITAL IMPROVEMENTS PROGRAM
444 S.W. 2ND AVENUE, 8TH FLOOR
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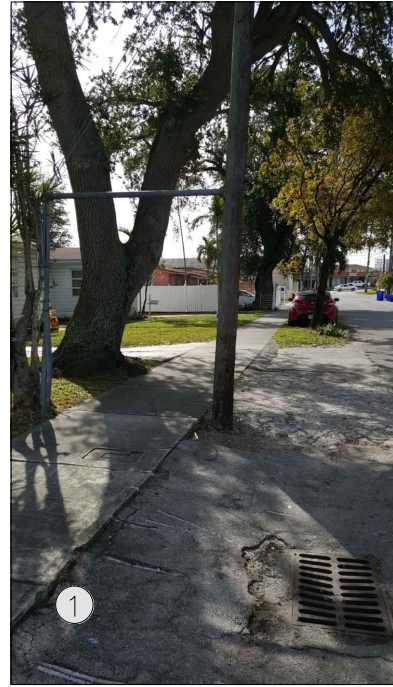
CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM
PROJECT NAME
CITY OF MIAMI
GROVE PARK ROADWAY & DRAINAGE
IMPROVEMENTS
PROJECT No.
B-40347



TYPICAL SECTIONS

SHEET NO.

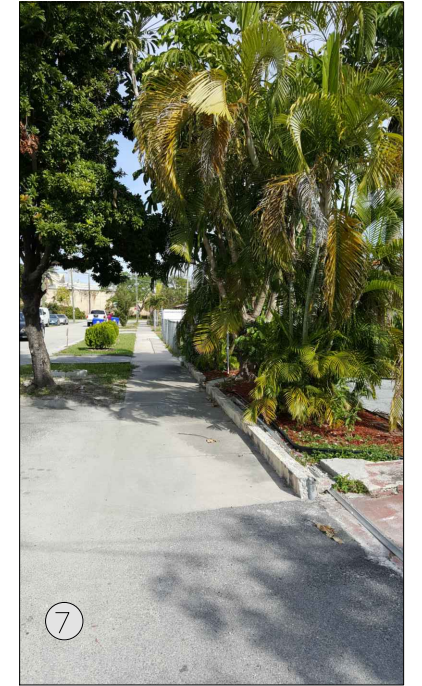
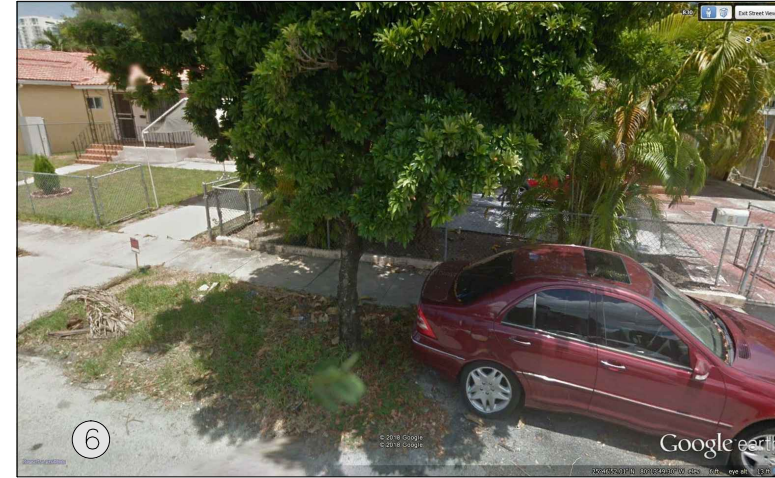
G-08



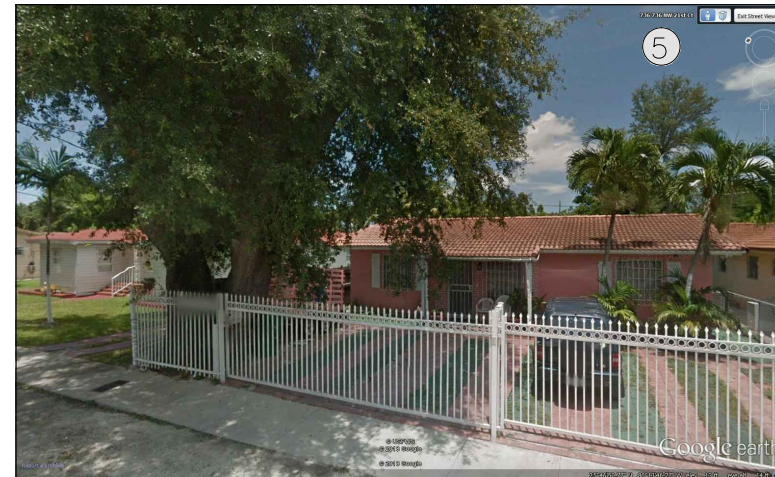
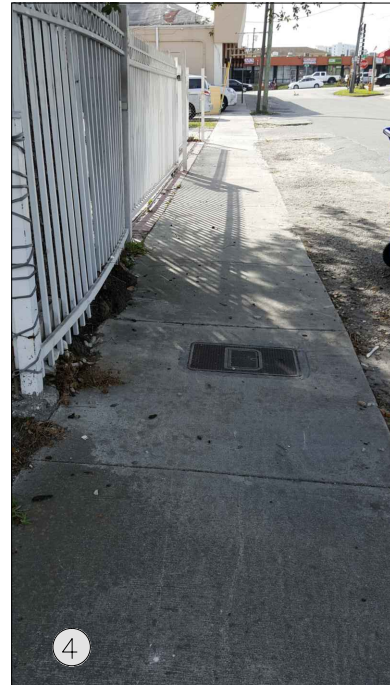
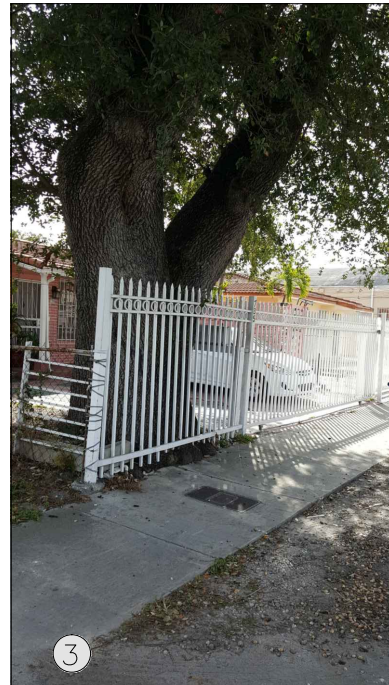
809 NW 21ST CT (Pictures 1 & 2)



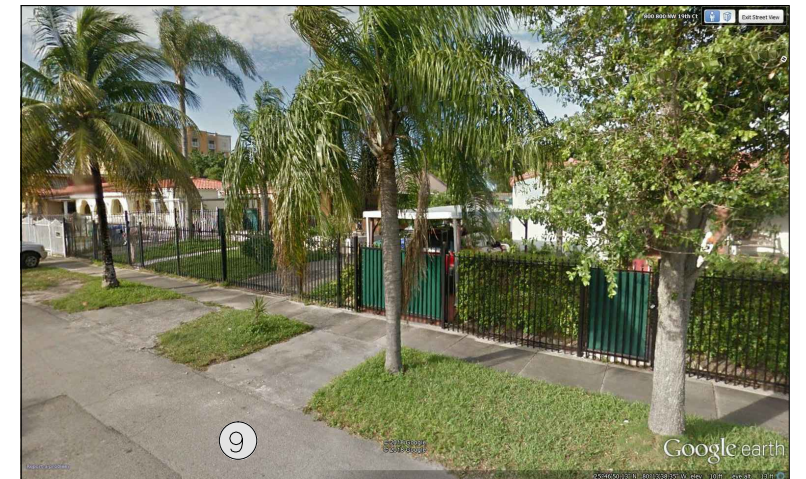
827 NW 21ST CT (Pictures 6 & 7)



735 NW 21ST CT (Pictures 3, 4 & 5)



800 NW 19TH CT (Pictures 8 & 9)



REVISIONS		
DATE	BY	DESCRIPTION

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 #47660



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PROJECT NAME	PROJECT No.
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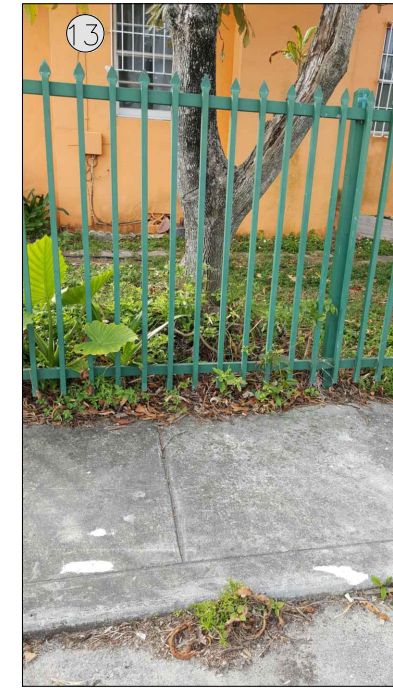
**POTENTIAL TREE
 CONFLICTS**

SHEET
 NO.
G-09

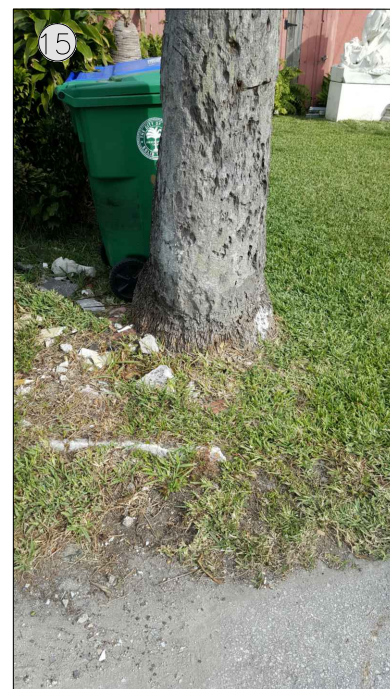
731 NW 19TH CT (Pictures 10 & 11)



740 NW 18TH AVE (Pictures 12 & 13)



1823 NW 8TH ST (Pictures 14 & 15)



TREE CONFLICT LOCATIONS

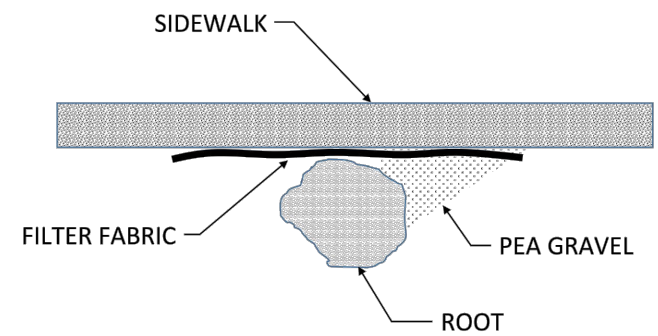
Address	Sheet	Picture #
735 NW 21ST CT	C-01	Pictures 3, 4 & 5
809 NW 21ST CT	C-01	Pictures 1 & 2
827 NW 21ST CT	C-01	Pictures 6 & 7
731 NW 19TH CT	C-03	Pictures 10 & 11
800 NW 19TH CT	C-03	Pictures 8 & 9
740 NW 18TH AVE	C-08	Pictures 12 & 13
1823 NW 8TH ST	C-08	Pictures 14 & 15

Sidewalk to maintain a standard thickness of 4 inches (6 inches at driveways). Reinforce with #3 welded wire fabric and avoid construction/expansion joints within 2 feet of shallow roots. Cover shallow roots with a 2 foot wide section of filter fabric prior to concrete pour.

Sidewalk cross slope is not to exceed 2% cross slope and 5% in the direction of travel.

Where fill material is necessary adjacent to shallow or exposed roots place 2 inch pea gravel (rounded edge).

No cutting or pruning of the root system of street tree without the review and consent of the Public Works Department.



SIDEWALK OVER ROOTS SYSTEM
N.T.S.

REVISIONS		
DATE	BY	DESCRIPTION

EOR

CARLOS M. HERDOCIA, PE.
#47660



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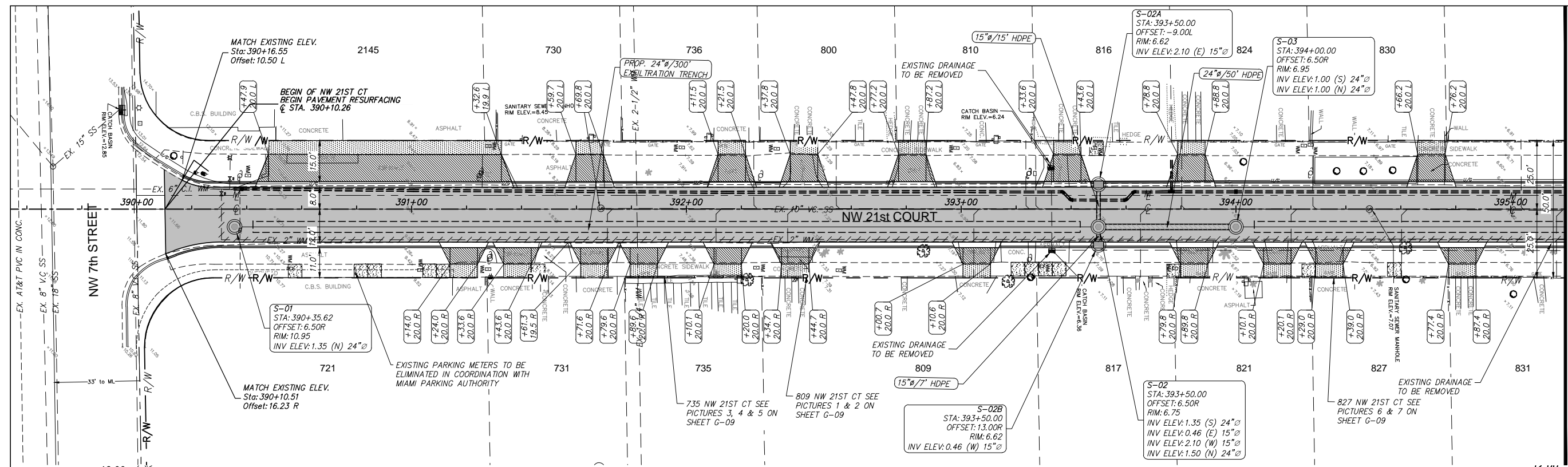
CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
PROJECT NAME	PROJECT No.
CITY OF MIAMI GROVE PARK ROADWAY & DRAINAGE IMPROVEMENTS	B-40347

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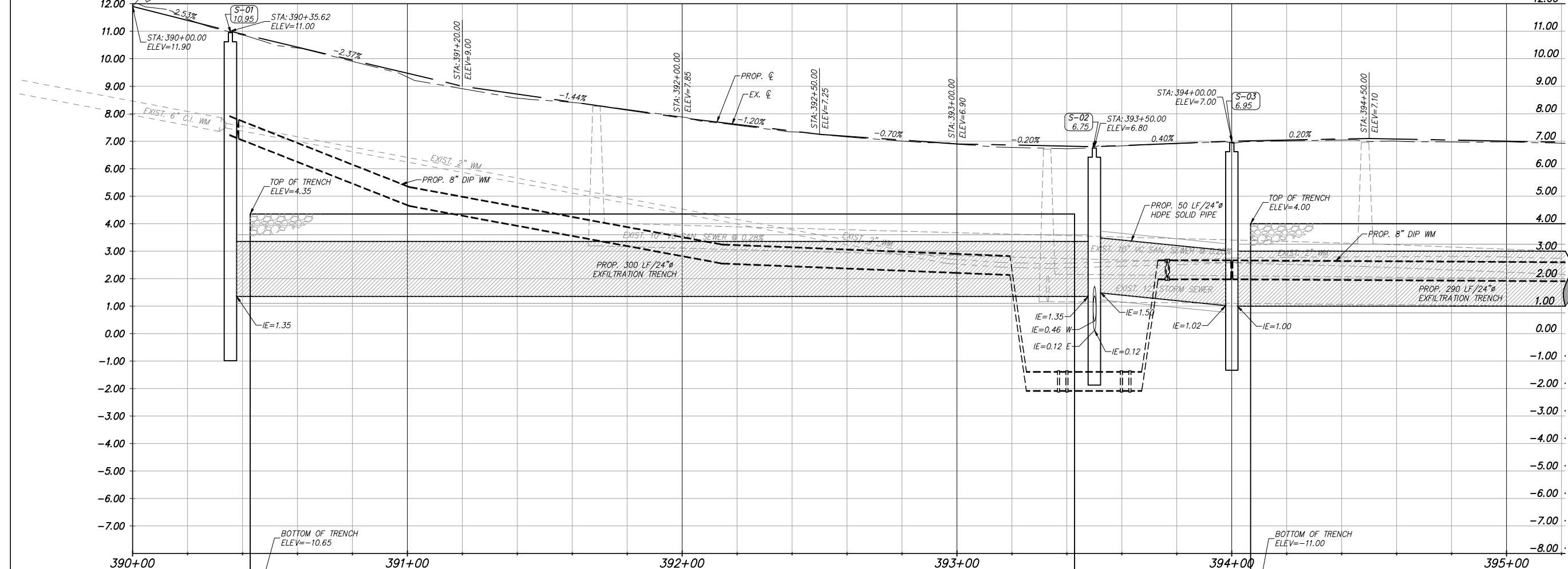
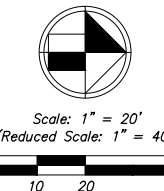
**POTENTIAL TREE
CONFLICTS**

SHEET
NO.

G-10



- NOTES:**
- EXISTING AND PROPOSED DRAINAGE SYSTEM SHALL BE CLEAN AND DESILTED PRIOR TO FINAL INSPECTION APPROVAL, INCLUDING PIPES, EXFILTRATION TRENCH AND INLETS.
 - ALL WORK WITHIN PRIVATE PROPERTY REQUIRES A HARMONIZATION AGREEMENT.
 - PROPOSED CONSTRUCTION WITHIN UNDEDICATED AREAS SHOWN SHALL OCCUR ONLY AFTER PERPETUAL EASEMENTS ARE OBTAINED FROM PROPERTY OWNER



- LEGEND**
- Property Line
 - R/W Line
 - Center Line
 - Exist. Type "F" Gutter
 - Exist. Edge of Pavement
 - Exist. Storm Drainage
 - Exist. Chain Link Fence
 - Monument Line
 - Existing Catch Basin
 - Exist. Light Pole/PullBox
 - Exist. Storm MH
 - Exist. Fire Hydrant
 - Exist. Trees To Remain
 - Existing San. MH
 - Existing Water Valve
 - Existing Elevation
 - Prop. Type "F" Curb & Gutter
 - Prop. Catch Basin
 - Prop. Drainage MH
 - 4" Conc. Sidewalk Reconstruction
 - 6" Conc. Sidewalk Reconstruction
 - 1" Milling and 1" Type S-III Resurfacing
 - Conc. Driveway Reconstruction
- PROFILE**
- Exist. Left EOP
 - Exist. Right EOP
 - Exist. ϵ (Profile)

REVISIONS		
DATE	BY	DESCRIPTION

EOR
 CARLOS M. HERDOCIA, PE.
 #47660

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 CAPITAL IMPROVEMENTS PROGRAM
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 IMPROVEMENTS

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PLAN & PROFILE
 NW 21ST CT

SHEET NO.
C-01



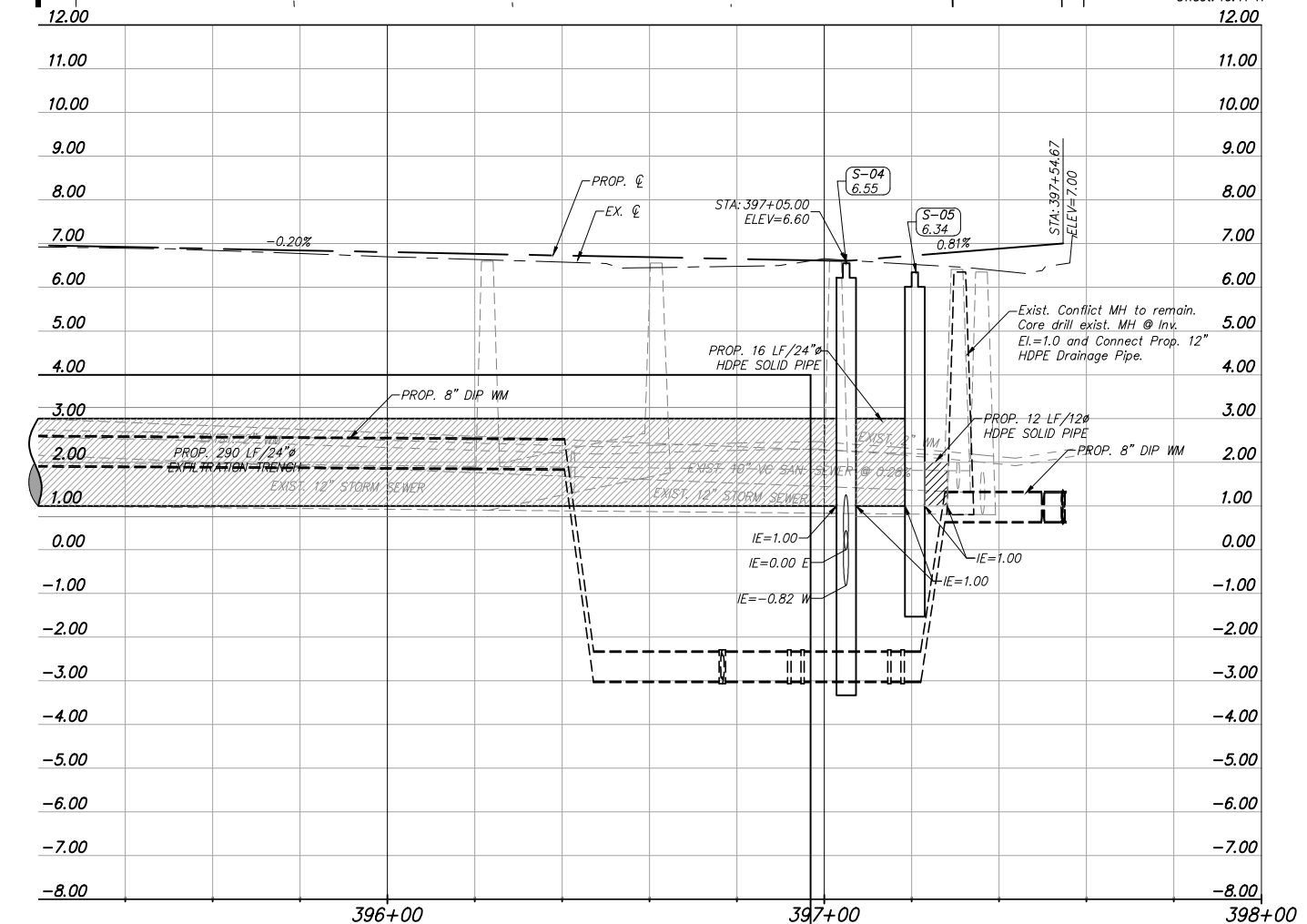
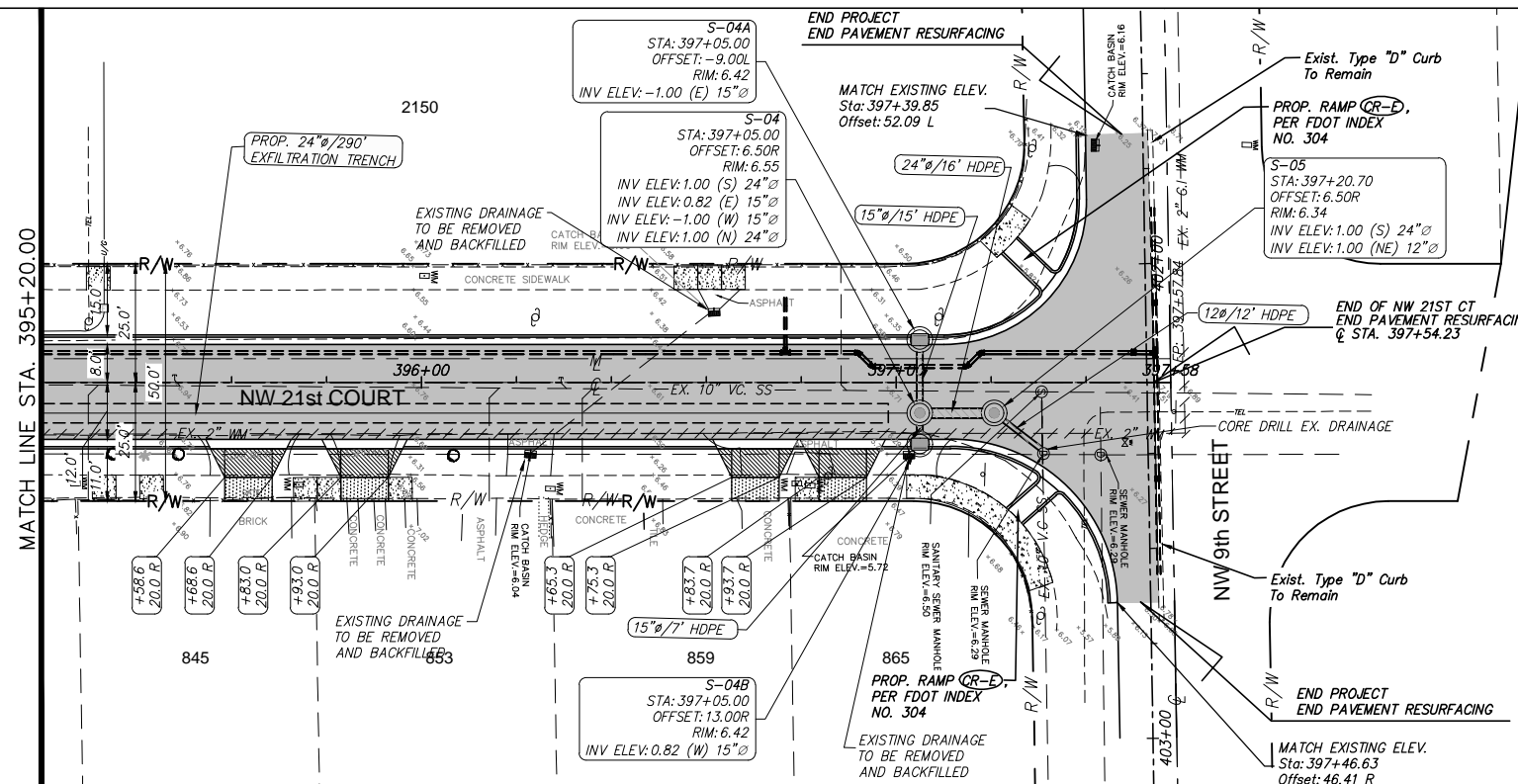
Scale: 1" = 20'
(Reduced Scale: 1" = 40')



LEGEND

- Property Line
- Right of Way Line
- Center Line
- Exist. Type "F" Gutter
- Exist. Edge of Pavement
- Exist. Storm Drainage
- Exist. Chain Link Fence
- Monument Line
- Existing Catch Basin
- Exist. Light Pole/PullBox
- Exist. Storm MH
- Exist. Fire Hydrant
- Exist. Trees To Remain
- Existing San. MH
- Existing Water Valve
- Existing Elevation
- Prop. Type "F" Curb & Gutter
- Prop. Catch Basin
- Prop. Drainage MH
- 4" Conc. Sidewalk Reconstruction
- 6" Conc. Sidewalk Reconstruction
- 1" Milling and 1" Type S-III Resurfacing
- Conc. Driveway Reconstruction
- PROFILE**
- Exist. Left EOP
- Exist. Right EOP
- Exist. E (Profile)

- NOTES:**
1. EXISTING AND PROPOSED DRAINAGE SYSTEM SHALL BE CLEAN AND DESILTED PRIOR PW FINAL INSPECTION APPROVAL, INCLUDING PIPES, EXFILTRATION TRENCH AND INLETS.
 2. ALL WORK WITHIN PRIVATE PROPERTY REQUIRES A HARMONIZATION AGREEMENT.
 3. PROPOSED CONSTRUCTION WITHIN UNDEDICATED AREAS SHOWN SHALL OCCUR ONLY AFTER PERPETUAL EASEMENTS ARE OBTAINED FROM PROPERTY OWNER



REVISIONS		
DATE	BY	DESCRIPTION

EOR
 CARLOS M. HERDOCIA, PE.
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 CAPITAL IMPROVEMENTS PROGRAM
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 MIAMI, FLORIDA 33130
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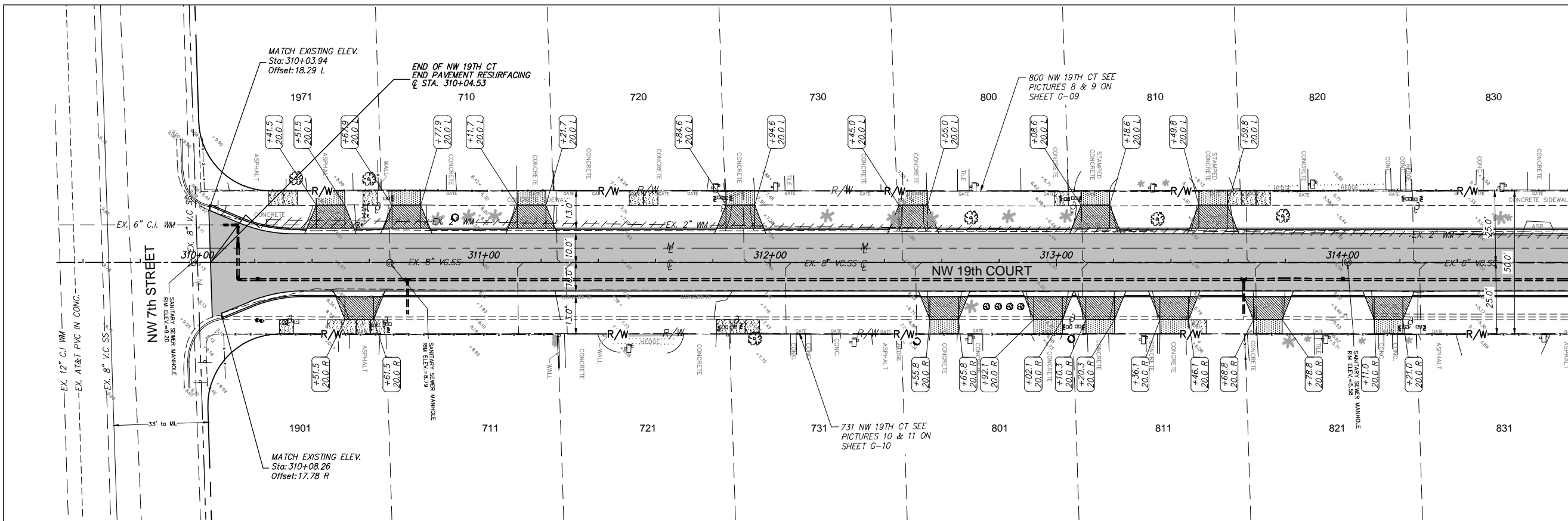
CITY OF MIAMI
 CAPITAL IMPROVEMENTS PROGRAM

PROJECT NAME CITY OF MIAMI GROVE PARK ROADWAY & DRAINAGE IMPROVEMENTS	PROJECT No. B-40347
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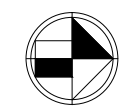
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PLAN & PROFILE
 NW 21ST CT

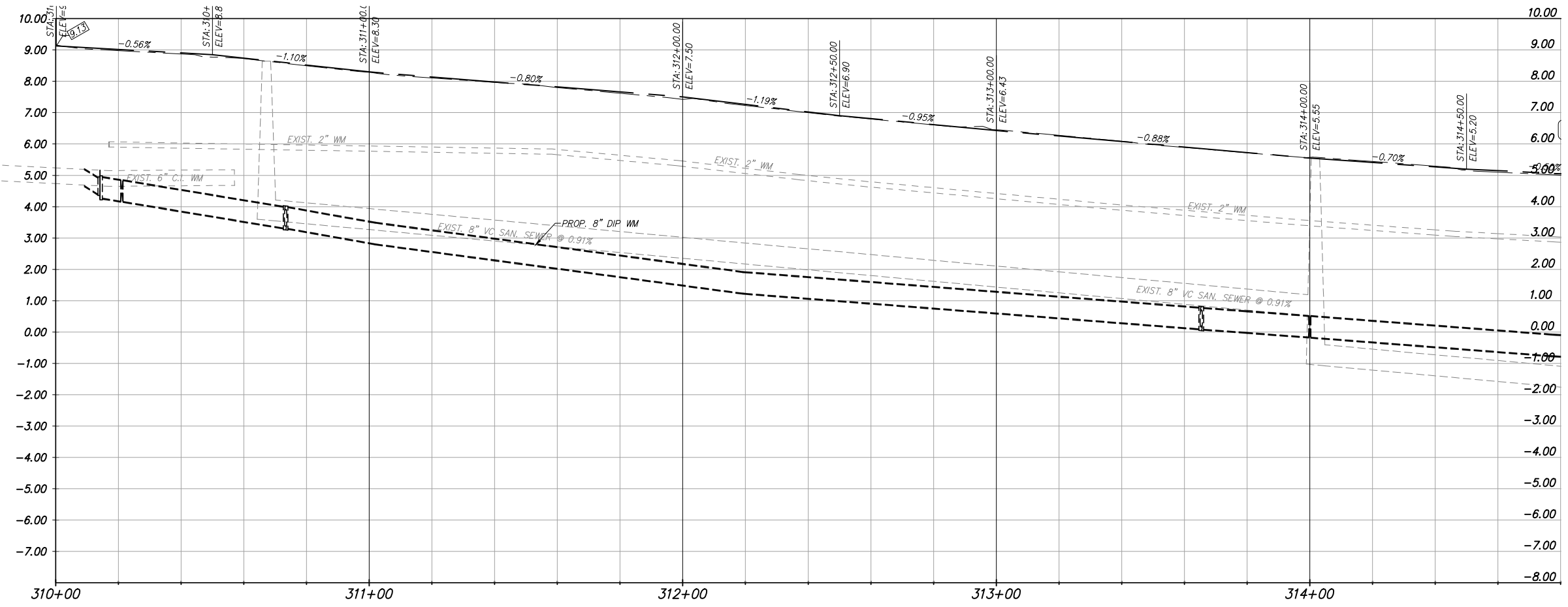
SHEET NO.
C-02



- NOTES:**
- EXISTING AND PROPOSED DRAINAGE SYSTEM SHALL BE CLEAN AND DESLITED PRIOR PW FINAL INSPECTION APPROVAL, INCLUDING PIPES, EXFILTRATION TRENCH AND INLETS.
 - ALL WORK WITHIN PRIVATE PROPERTY REQUIRES A HARMONIZATION AGREEMENT.
 - PROPOSED CONSTRUCTION WITHIN UNDEDICATED AREAS SHOWN SHALL OCCUR ONLY AFTER PERPETUAL EASEMENTS ARE OBTAINED FROM PROPERTY OWNER



Scale: 1" = 20'
(Reduced Scale: 1" = 40')



- LEGEND**
- Property Line
 - R/W Line
 - Center Line
 - Exist. Type "F" Gutter
 - Exist. Edge of Pavement
 - Exist. Storm Drainage
 - Exist. Chain Link Fence
 - Monument Line
 - Existing Catch Basin
 - Exist. Light Pole/PullBox
 - Exist. Storm MH
 - Exist. Fire Hydrant
 - Exist. Trees To Remain
 - Existing San. MH
 - Existing Water Valve
 - Existing Elevation
 - Prop. Type "F" Curb & Gutter
 - Prop. Catch Basin
 - Prop. Drainage MH
 - 4" Conc. Sidewalk Reconstruction
 - 6" Conc. Sidewalk Reconstruction
 - 1" Milling and 1" Type S-III Resurfacing
 - Conc. Driveway Reconstruction
 - PROFILE
 - Exist. Left EOP
 - Exist. Right EOP
 - Exist. \bar{c} (Profile)

REVISIONS		
DATE	BY	DESCRIPTION

EOR
CARLOS M. HERDOCIA, PE.
#47660

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CAPITAL IMPROVEMENTS PROGRAM
444 S.W. 2ND AVENUE, 8TH FLOOR
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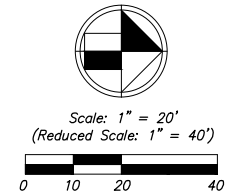
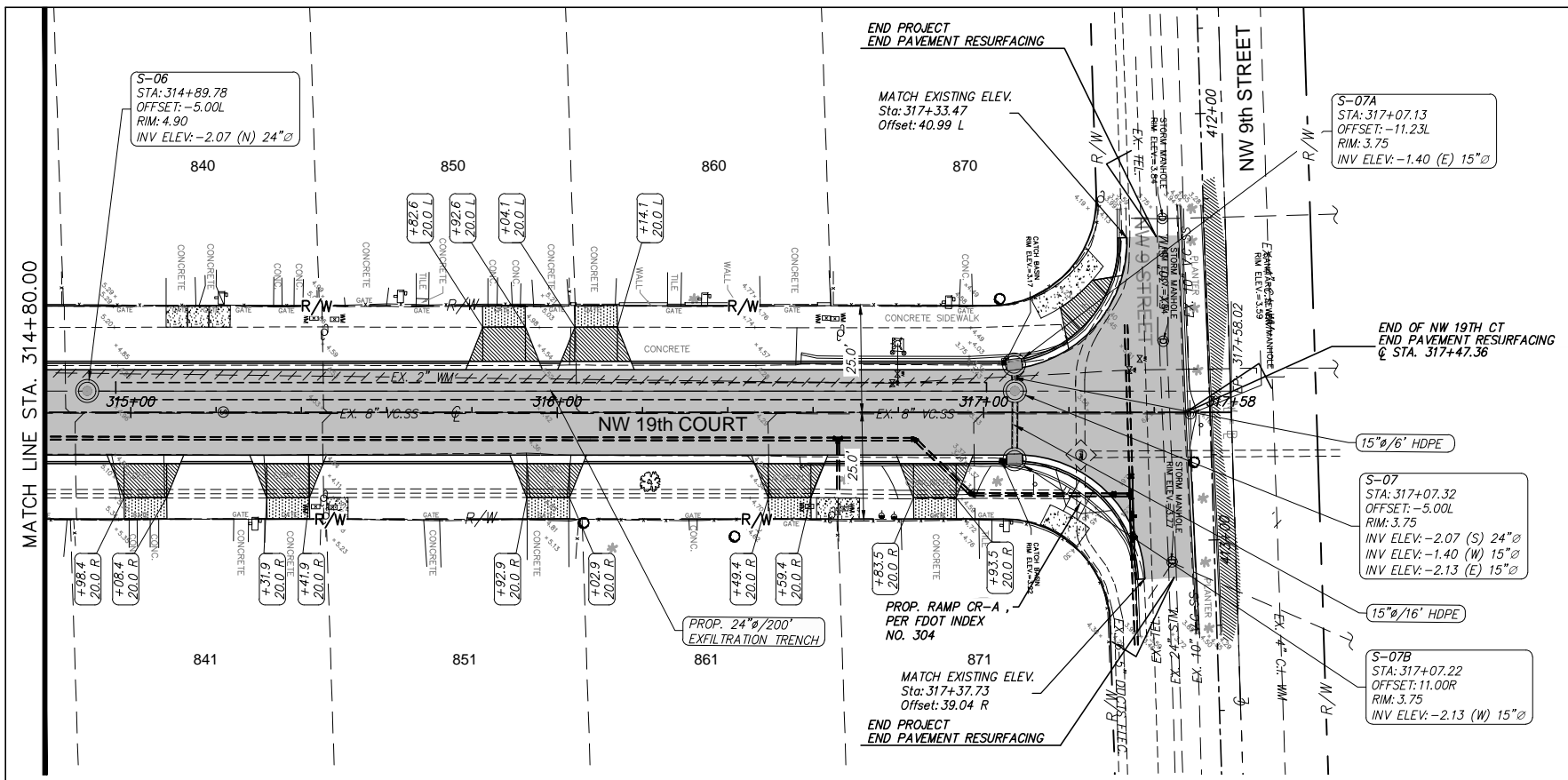
CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM

PROJECT NAME CITY OF MIAMI GROVE PARK ROADWAY & DRAINAGE IMPROVEMENTS	PROJECT No. B-40347
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PLAN & PROFILE
NW 19TH CT

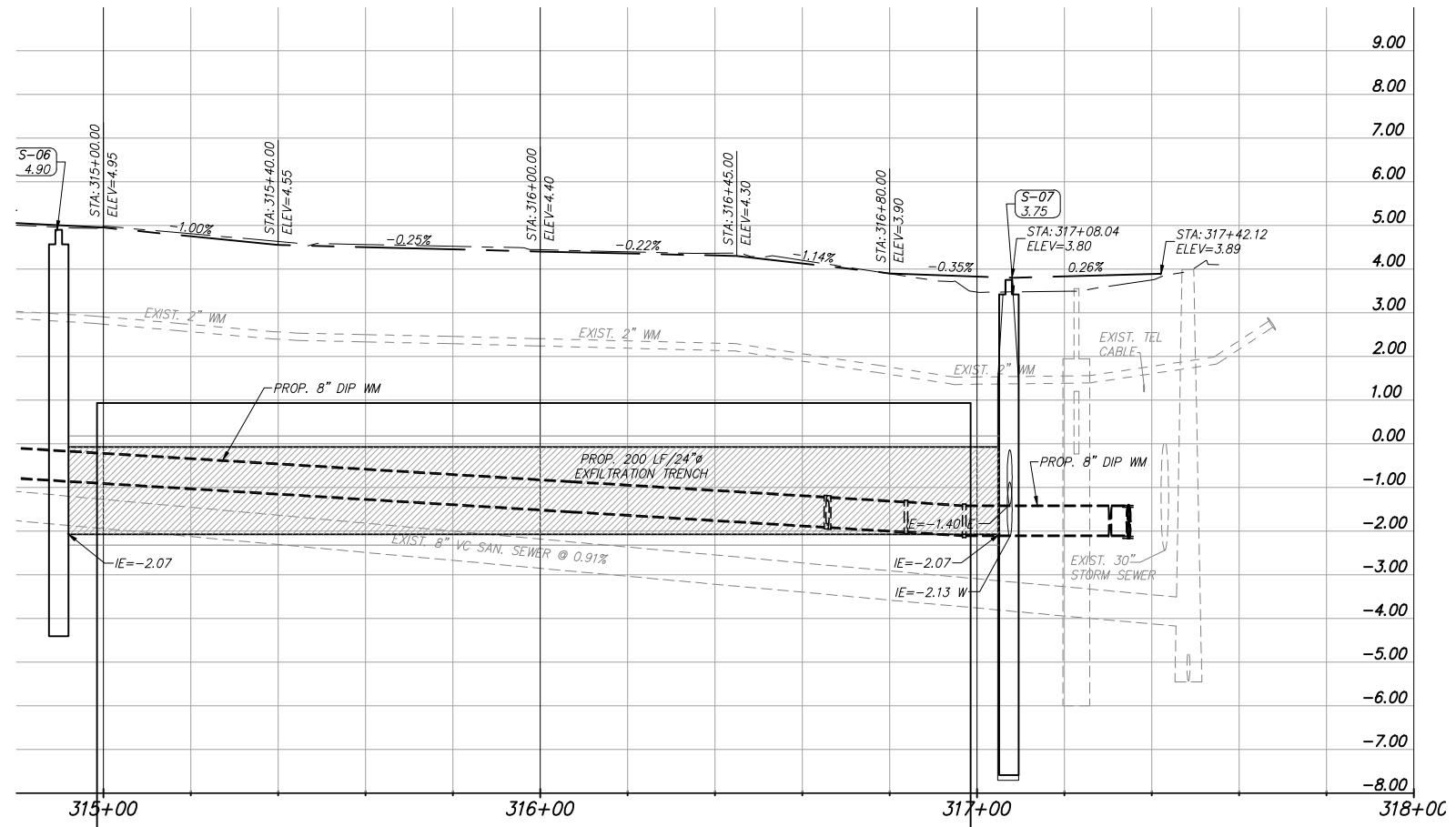
SHEET NO.
C-03



LEGEND

	Property Line
	Right of Way Line
	Center Line
	Exist. Type "F" Gutter
	Exist. Edge of Pavement
	Exist. Storm Drainage
	Exist. Chain Link Fence
	Monument Line
	Existing Catch Basin
	Exist. Light Pole/PullBox
	Exist. Storm MH
	Exist. Fire Hydrant
	Exist. Trees To Remain
	Existing San. MH
	Existing Water Valve
	Existing Elevation
	Prop. Type "F" Curb & Gutter
	Prop. Catch Basin
	Prop. Drainage MH
	4" Conc. Sidewalk Reconstruction
	6" Conc. Sidewalk Reconstruction
	1" Milling and 1" Type S-III Resurfacing
	Conc. Driveway Reconstruction
PROFILE	
	Exist. Left EOP
	Exist. Right EOP
	Exist. E (Profile)

- NOTES:**
- EXISTING AND PROPOSED DRAINAGE SYSTEM SHALL BE CLEAN AND DESILTED PRIOR TO FINAL INSPECTION APPROVAL, INCLUDING PIPES, EXFILTRATION TRENCH AND INLETS.
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REVISIONS		
DATE	BY	DESCRIPTION

EOR
 CARLOS M. HERDOCIA, PE.
 #47660

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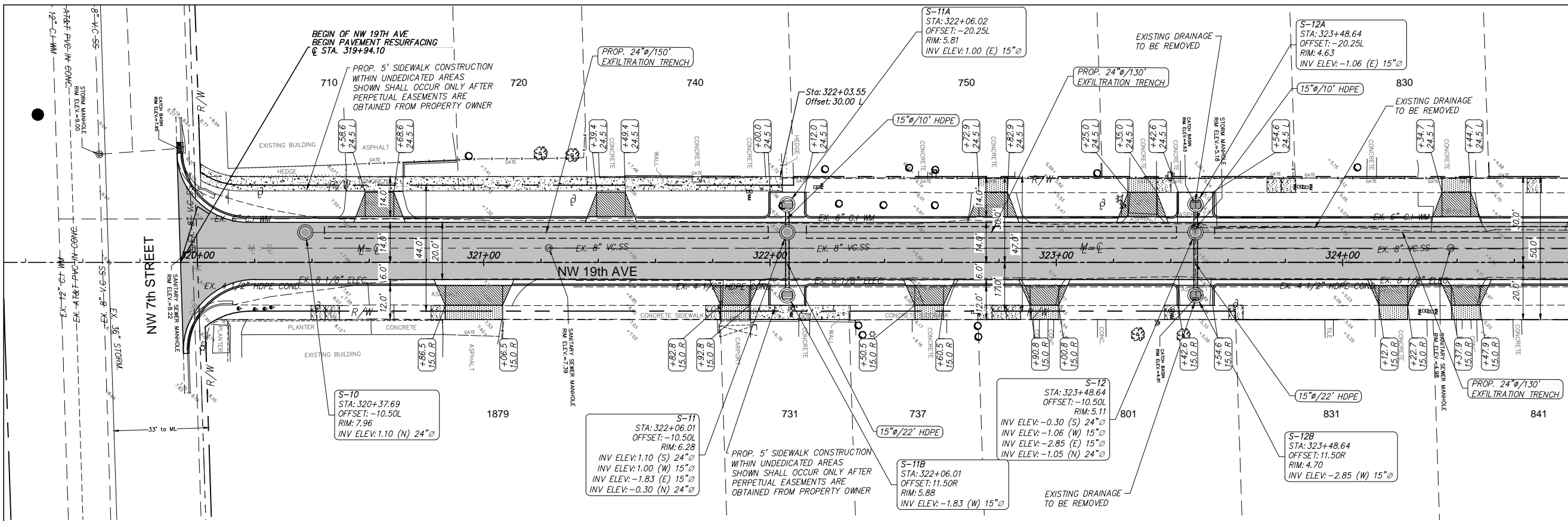
CITY OF MIAMI
 CAPITAL IMPROVEMENTS PROGRAM

PROJECT NAME CITY OF MIAMI GROVE PARK ROADWAY & DRAINAGE IMPROVEMENTS	PROJECT No. B-40347
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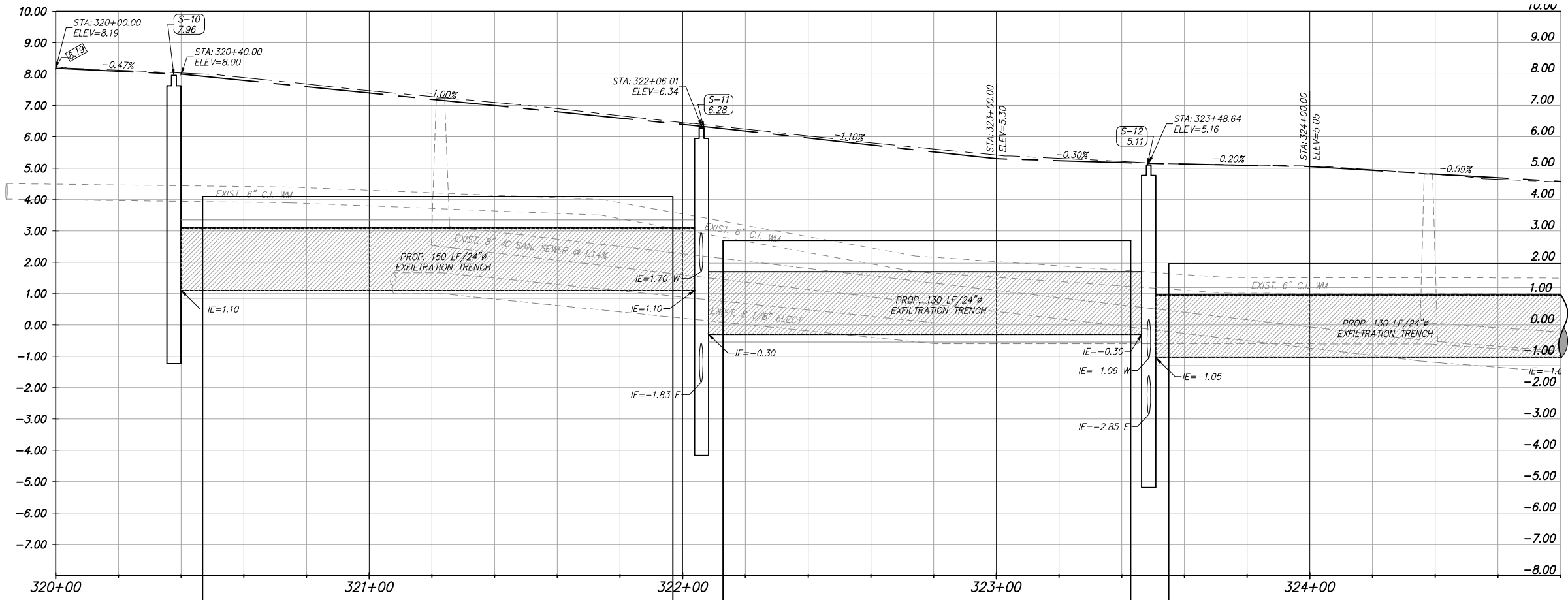
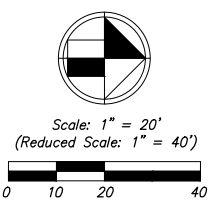
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PLAN & PROFILE
 NW 19TH CT

SHEET NO.
C-04



- NOTES:**
- EXISTING AND PROPOSED DRAINAGE SYSTEM SHALL BE CLEAN AND DESILTED PRIOR TO FINAL INSPECTION APPROVAL, INCLUDING PIPES, INFILTRATION TRENCH AND INLETS.
 - ALL WORK WITHIN PRIVATE PROPERTY REQUIRES A HARMONIZATION AGREEMENT.
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LEGEND

- Property Line
- Right of Way Line
- Center Line
- Exist. Type "F" Gutter
- Exist. Edge of Pavement
- Exist. Storm Drainage
- Exist. Chain Link Fence
- Monument Line
- Existing Catch Basin
- Exist. Light Pole/PullBox
- Exist. Storm MH
- Exist. Fire Hydrant
- Exist. Trees To Remain
- Existing San. MH
- Existing Water Valve
- Existing Elevation
- Prop. Type "F" Curb & Gutter
- Prop. Catch Basin
- Prop. Drainage MH
- 4" Conc. Sidewalk Reconstruction
- 6" Conc. Sidewalk Reconstruction
- 1" Milling and 1" Type S-III Resurfacing
- Conc. Driveway Reconstruction
- PROFILE**
- Exist. Left EOP
- Exist. Right EOP
- Exist. Q (Profile)

REVISIONS		
DATE	BY	DESCRIPTION

EOR
 CARLOS M. HERDOCIA, PE.
 #47660

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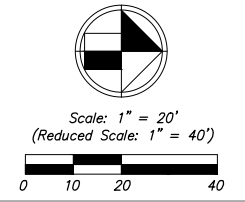
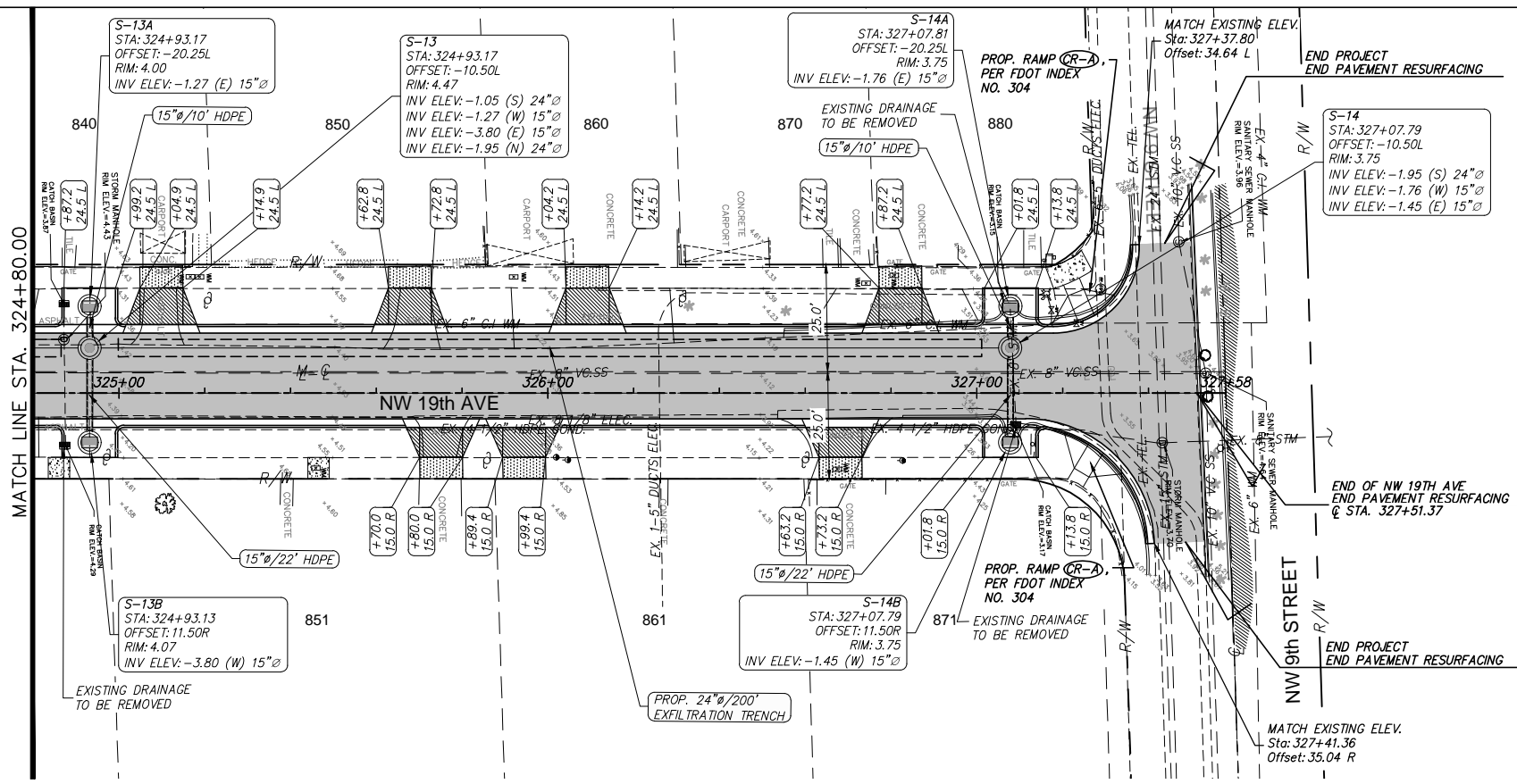
CITY OF MIAMI
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PROJECT NAME CITY OF MIAMI GROVE PARK ROADWAY & DRAINAGE IMPROVEMENTS	PROJECT No. B-40347
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PLAN & PROFILE
 NW 19TH AVE

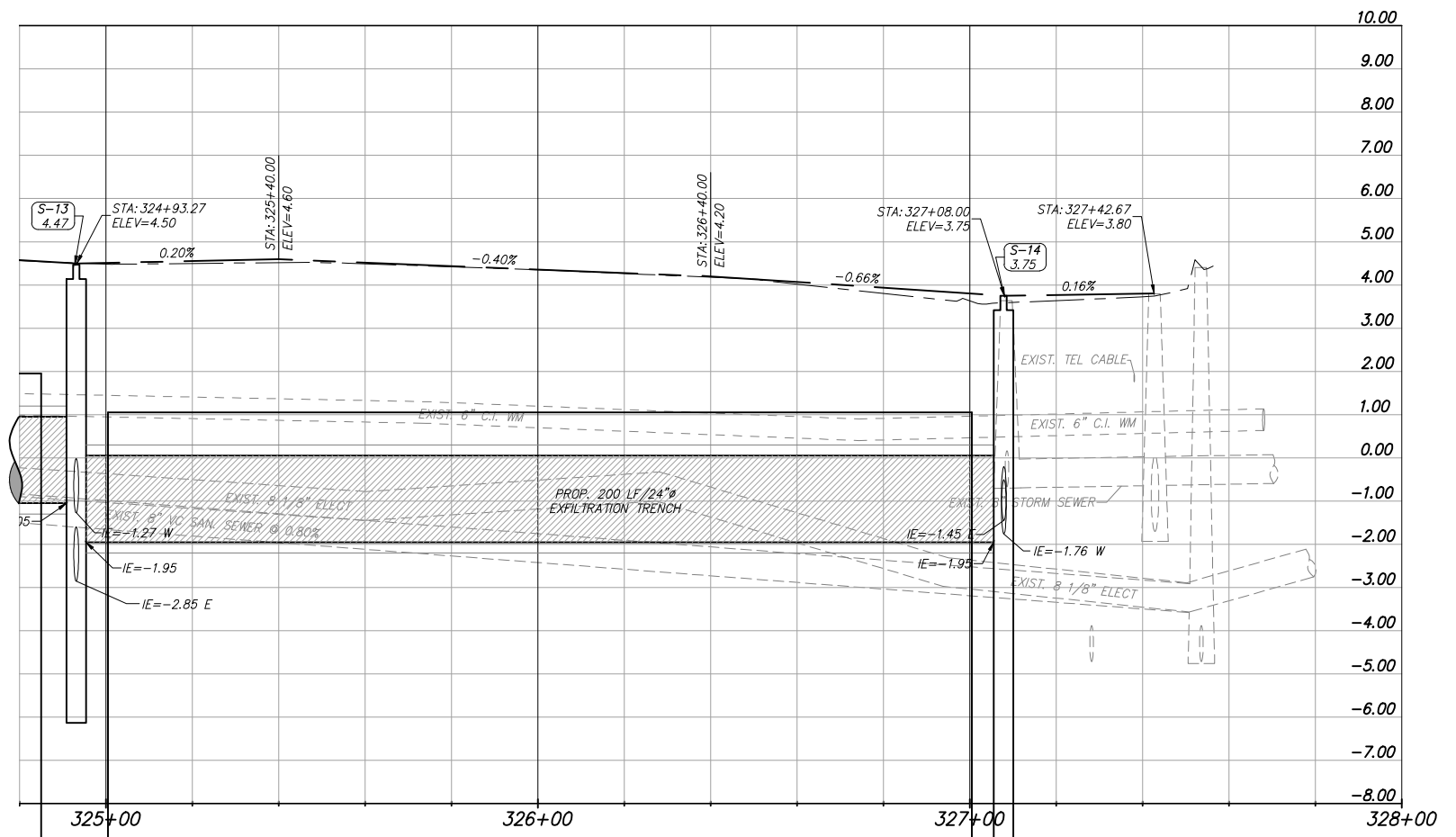
SHEET NO.
C-05



LEGEND

	Property Line
	Right of Way Line
	Center Line
	Exist. Type "F" Gutter
	Exist. Edge of Pavement
	Exist. Storm Drainage
	Exist. Chain Link Fence
	Monument Line
	Existing Catch Basin
	Exist. Light Pole/PullBox
	Exist. Storm MH
	Exist. Fire Hydrant
	Exist. Trees To Remain
	Existing San. MH
	Existing Water Valve
	Existing Elevation
	Prop. Type "F" Curb & Gutter
	Prop. Catch Basin
	Prop. Drainage MH
	4" Conc. Sidewalk Reconstruction
	6" Conc. Sidewalk Reconstruction
	1" Milling and 1" Type S-III Resurfacing
	Conc. Driveway Reconstruction
PROFILE	
	Exist. Left EOP
	Exist. Right EOP
	Exist. Q (Profile)

- NOTES:**
- EXISTING AND PROPOSED DRAINAGE SYSTEM SHALL BE CLEAN AND DESILTED PRIOR PW FINAL INSPECTION APPROVAL, INCLUDING PIPES, EXFILTRATION TRENCH AND INLETS.
 - ALL WORK WITHIN PRIVATE PROPERTY REQUIRES A HARMONIZATION AGREEMENT.
 - PROPOSED CONSTRUCTION WITHIN UNDEDICATED AREAS SHOWN SHALL OCCUR ONLY AFTER PERPETUAL EASEMENTS ARE OBTAINED FROM PROPERTY OWNER



REVISIONS		
DATE	BY	DESCRIPTION

EOR
 CARLOS M. HERDOCIA, PE.
 #47660

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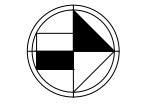
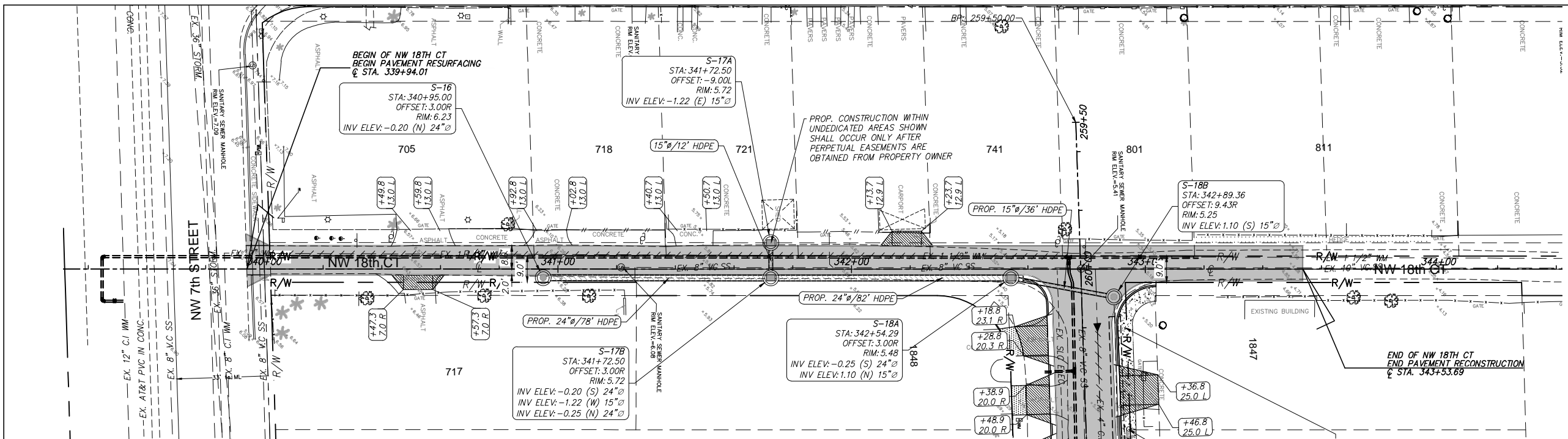
CITY OF MIAMI
 CAPITAL IMPROVEMENTS PROGRAM

PROJECT NAME CITY OF MIAMI GROVE PARK ROADWAY & DRAINAGE IMPROVEMENTS	PROJECT No. B-40347
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PLAN & PROFILE
 NW 19TH AVE

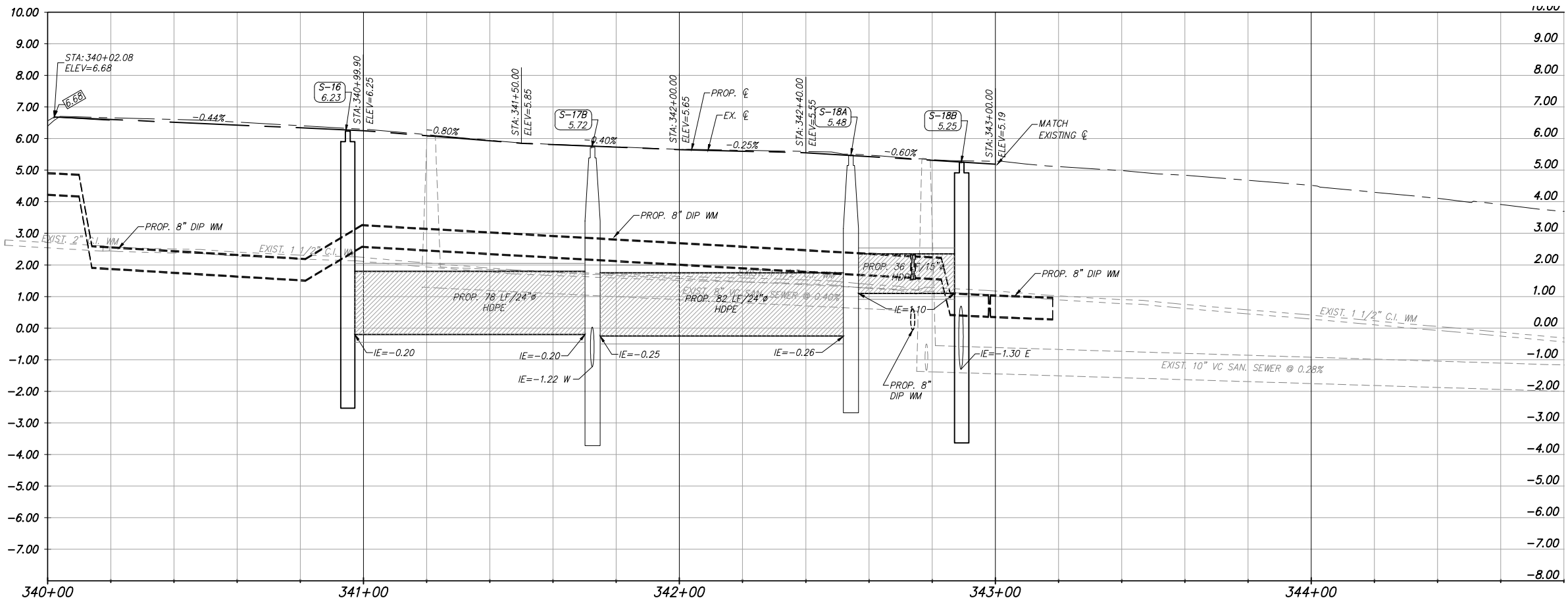
SHEET NO.
C-06



Scale: 1" = 20'
 (Reduced Scale: 1" = 40')

LEGEND	
	Property Line
	Right of Way Line
	Center Line
	Exist. Type "F" Gutter
	Exist. Edge of Pavement
	Exist. Storm Drainage
	Exist. Chain Link Fence
	Monument Line
	Existing Catch Basin
	Exist. Light Pole/PullBox
	Exist. Storm MH
	Exist. Fire Hydrant
	Exist. Trees To Remain
	Existing San. MH
	Existing Water Valve
	Existing Elevation
	Prop. Type "F" Curb & Gutter
	Prop. Catch Basin
	Prop. Drainage MH
	4" Conc. Sidewalk Reconstruction
	6" Conc. Sidewalk Reconstruction
	1" Milling and 1" Type S-III Resurfacing
	Conc. Driveway Reconstruction
PROFILE	
	Exist. Left EOP
	Exist. Right EOP
	Exist. C (Profile)

- NOTES:
- EXISTING AND PROPOSED DRAINAGE SYSTEM SHALL BE CLEAN AND DESILTED PRIOR PW FINAL INSPECTION APPROVAL, INCLUDING PIPES, EXFILTRATION TRENCH AND INLETS.
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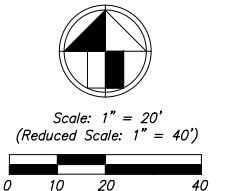
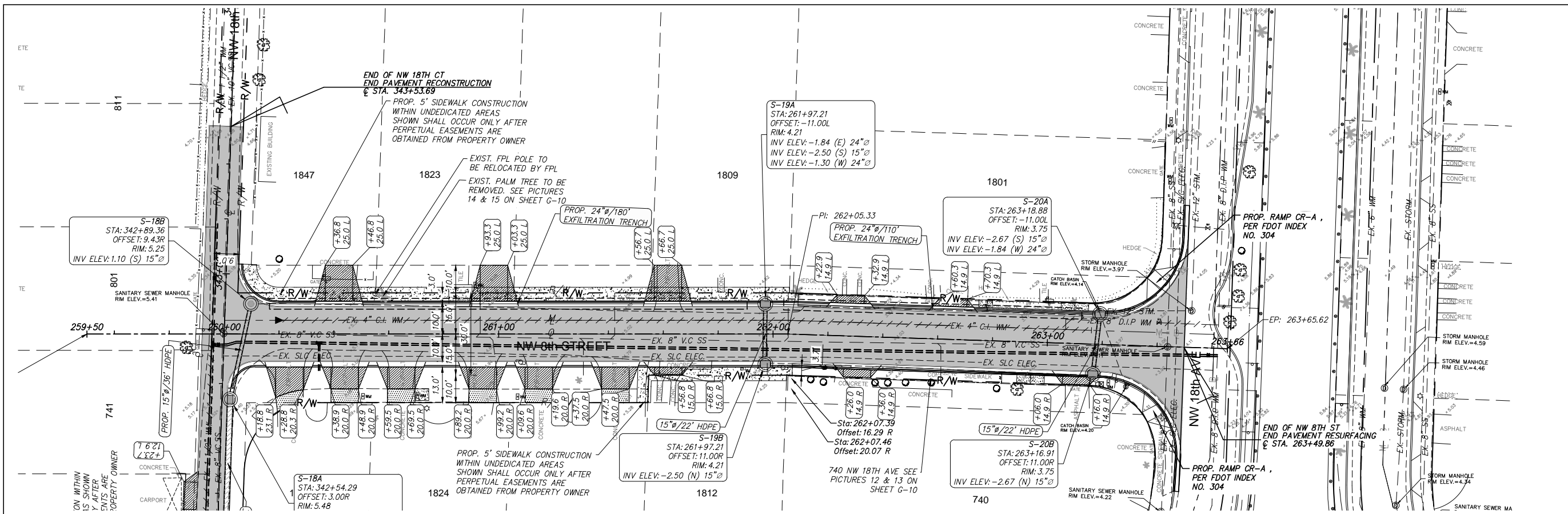
CITY OF MIAMI
 CAPITAL IMPROVEMENTS PROGRAM

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PLAN & PROFILE
 NW 18TH CT

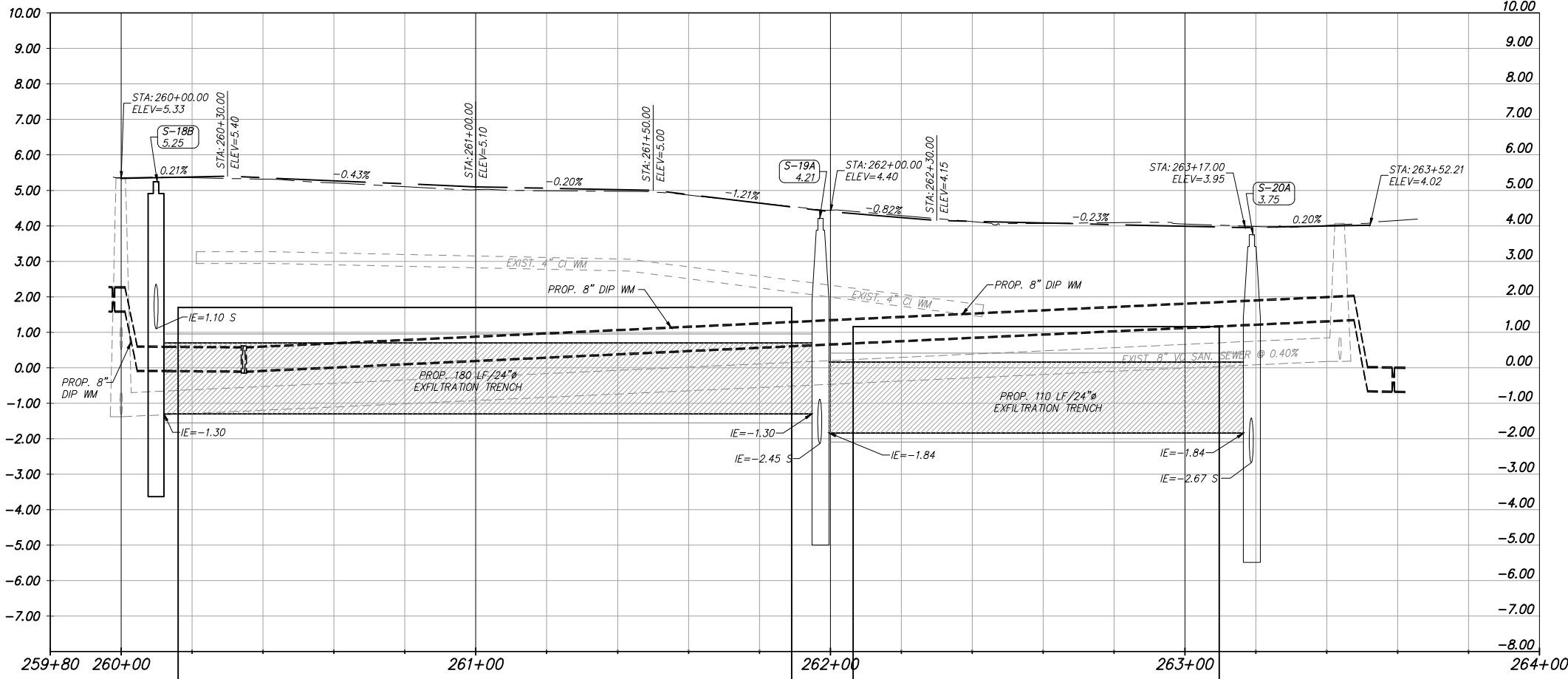
SHEET NO.
C-07



LEGEND

	Property Line
	Right of Way Line
	Center Line
	Exist. Type "F" Gutter
	Exist. Edge of Pavement
	Exist. Storm Drainage
	Exist. Chain Link Fence
	Monument Line
	Existing Catch Basin
	Exist. Light Pole/PullBox
	Exist. Storm MH
	Exist. Fire Hydrant
	Exist. Trees To Remain
	Existing San. MH
	Existing Water Valve
	Existing Elevation
	Prop. Type "F" Curb & Gutter
	Prop. Catch Basin
	Prop. Drainage MH
	4" Conc. Sidewalk Reconstruction
	6" Conc. Sidewalk Reconstruction
	1" Milling and 1" Type S-III Resurfacing
	Conc. Driveway Reconstruction
	Exist. Left EOP
	Exist. Right EOP
	Exist. Q (Profile)

- NOTES:**
- EXISTING AND PROPOSED DRAINAGE SYSTEM SHALL BE CLEAN AND DESILTED PRIOR TO FINAL INSPECTION APPROVAL, INCLUDING PIPES, EXFILTRATION TRENCH AND INLETS.
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 CAPITAL IMPROVEMENTS PROGRAM

PROJECT NAME CITY OF MIAMI GROVE PARK ROADWAY & DRAINAGE IMPROVEMENTS	PROJECT No. B-40347
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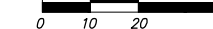
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PLAN & PROFILE
 NW 8TH STREET

SHEET NO.
C-08

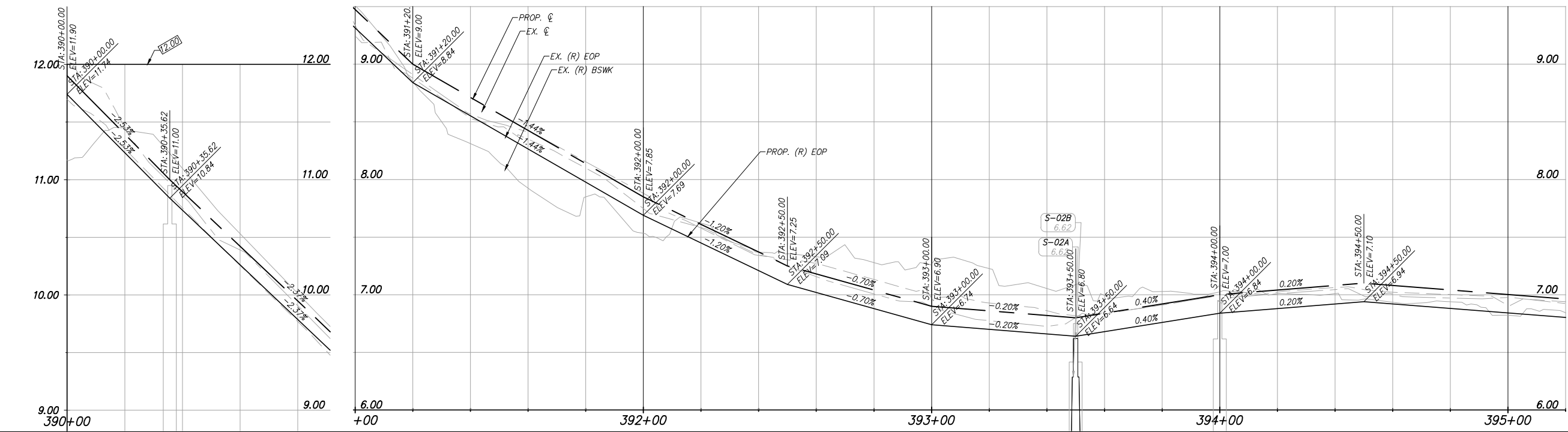
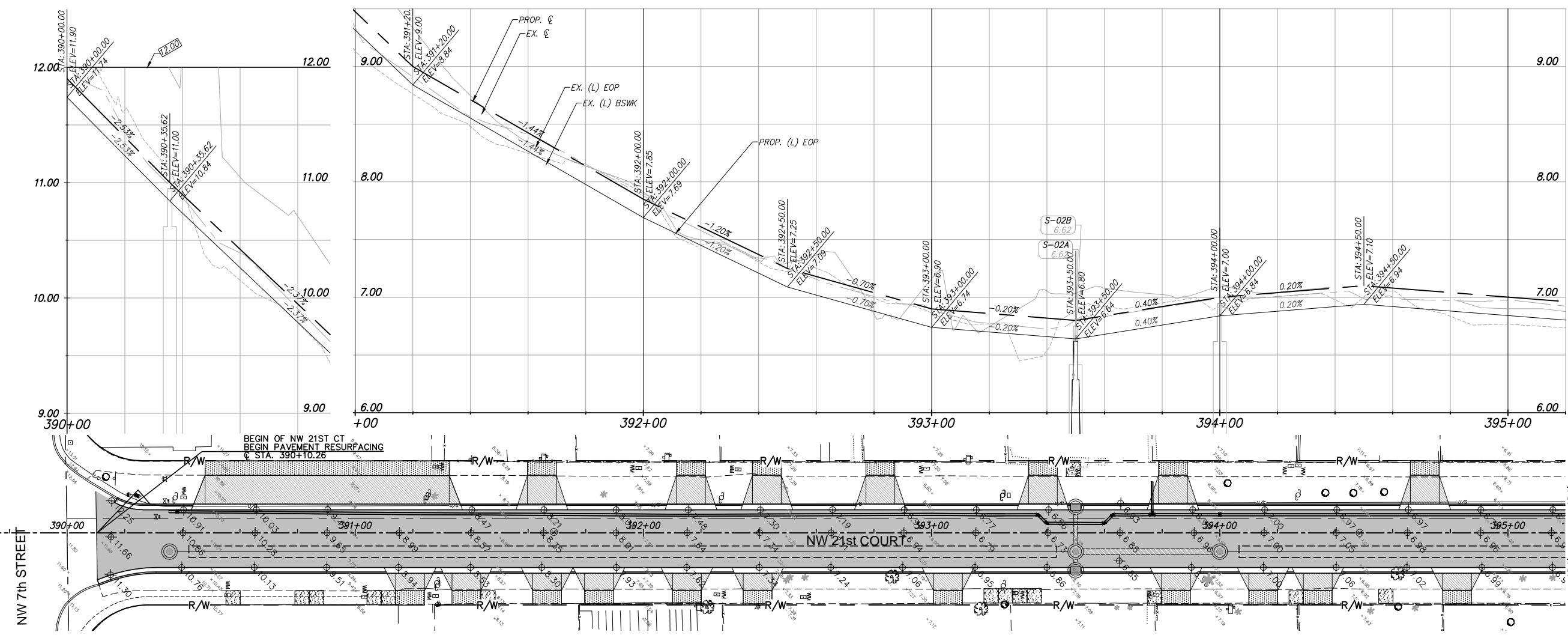


Scale: 1" = 20'
(Reduced Scale: 1" = 40')



LEGEND

- Property Line
 - Right of Way Line
 - Center Line
 - Exist. Type "F" Gutter
 - Exist. Edge of Pavement
 - Exist. Storm Drainage
 - Exist. Chain Link Fence
 - Monument Line
 - Existing Catch Basin
 - Exist. Light Pole/PullBox
 - Exist. Storm MH
 - Exist. Fire Hydrant
 - Exist. Trees To Remain
 - Existing San. MH
 - Existing Water Valve
 - Existing Elevation
 - Prop. Elevation
 - Prop. Type "F" Curb & Gutter
 - Prop. Catch Basin
 - Prop. Drainage MH
 - Conc. Sidewalk Reconstruction
 - 1" Milling and 1" Type S-III Resurfacing
 - Driveway Reconstruction
- PROFILE**
- Exist. Left EOP
 - Exist. Right EOP
 - Exist. E (Profile)



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PROJECT NAME
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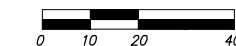
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SPECIAL PROFILE
NW 21ST CT

SHEET NO.
C-09

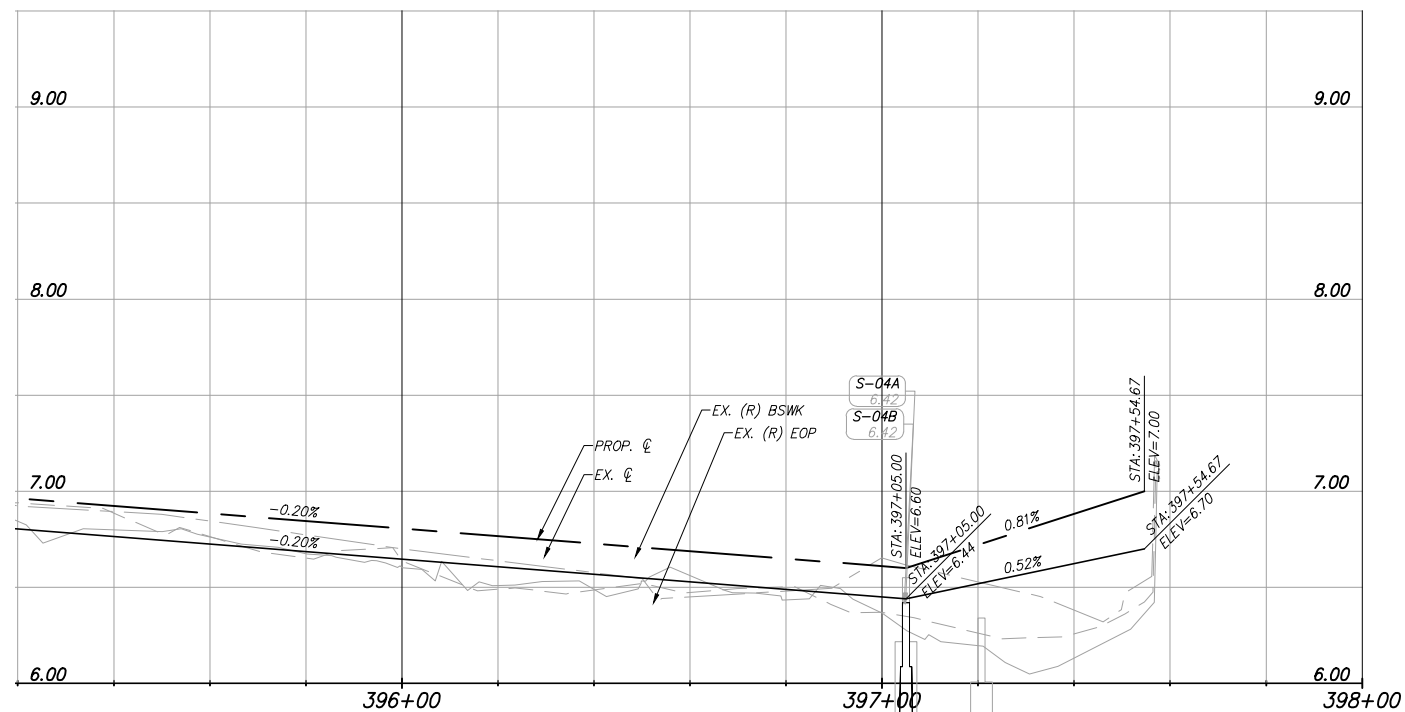
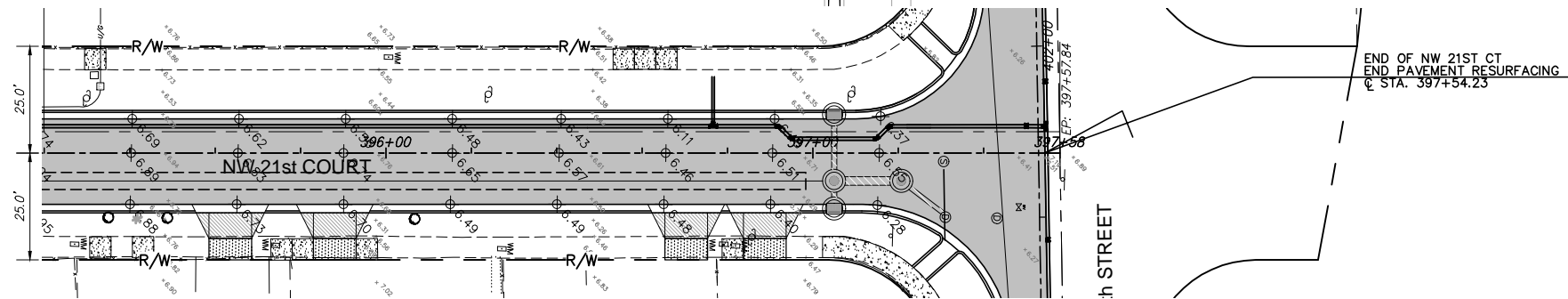
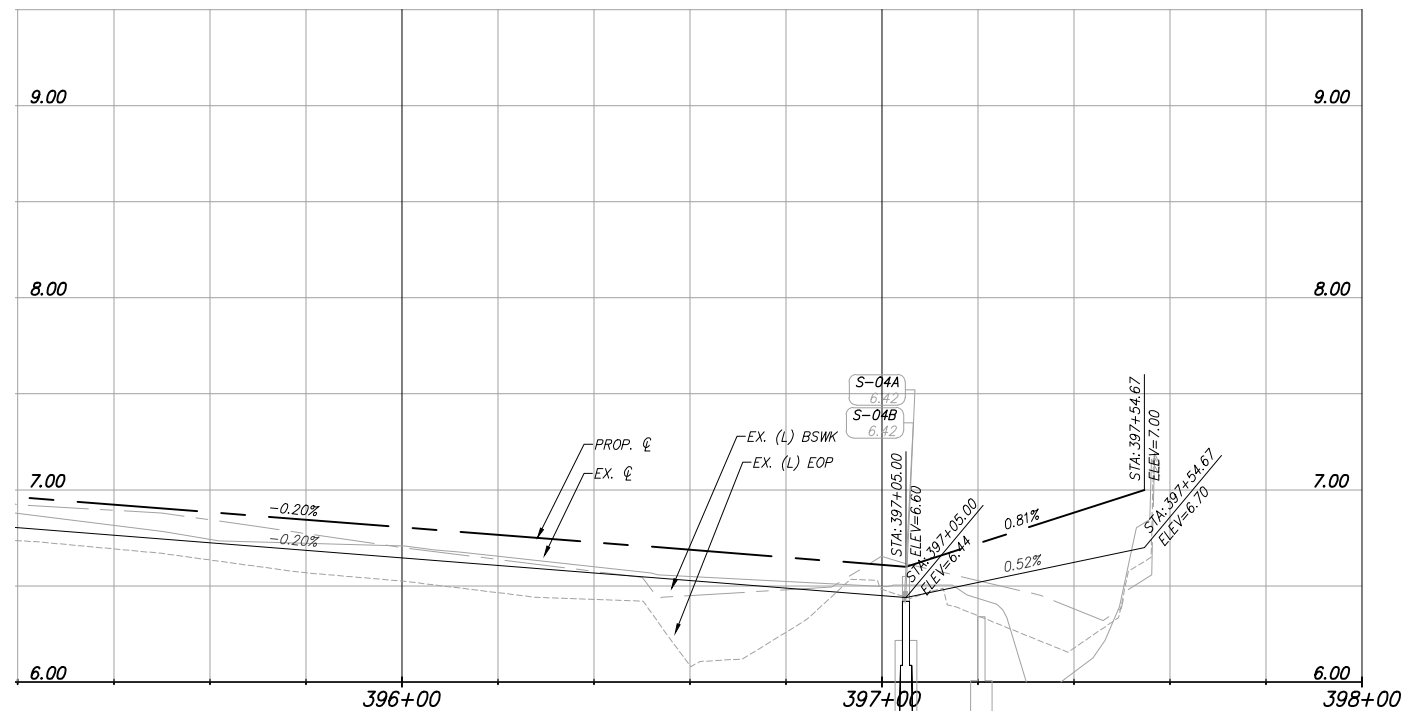


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LEGEND

- Property Line
- Right of Way Line
- Center Line
- Exist. Type "F" Gutter
- Exist. Edge of Pavement
- Exist. Storm Drainage
- Exist. Chain Link Fence
- Monument Line
- Existing Catch Basin
- Exist. Light Pole/PullBox
- Exist. Storm MH
- Exist. Fire Hydrant
- Exist. Trees To Remain
- Existing San. MH
- Existing Water Valve
- Existing Elevation
- Prop. Elevation
- Prop. Type "F" Curb & Gutter
- Prop. Catch Basin
- Prop. Drainage MH
- Conc. Sidewalk Reconstruction
- 1" Milling and 1" Type S-II Resurfacing
- Driveway Reconstruction
- PROFILE**
- Exist. Left EOP
- Exist. Right EOP
- Exist. CL (Profile)



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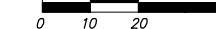
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SPECIAL PROFILE
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SHEET NO.
C-10

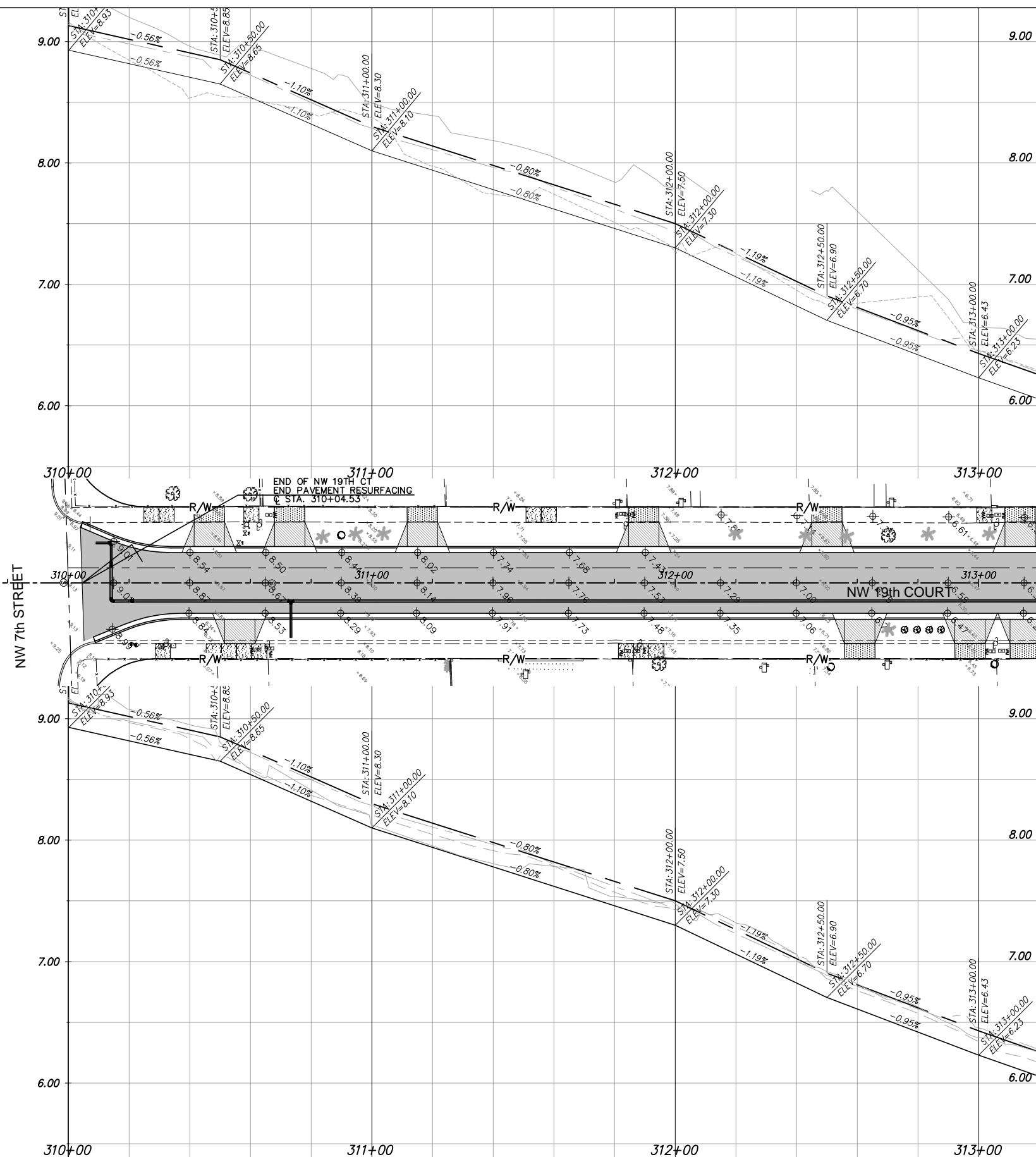


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(Reduced Scale: 1" = 40')



LEGEND

- Property Line
 - Right of Way Line
 - Center Line
 - Exist. Type "F" Gutter
 - Exist. Edge of Pavement
 - Exist. Storm Drainage
 - Exist. Chain Link Fence
 - Monument Line
 - Existing Catch Basin
 - Exist. Light Pole/PullBox
 - Exist. Storm MH
 - Exist. Fire Hydrant
 - Exist. Trees To Remain
 - Existing San. MH
 - Existing Water Valve
 - Existing Elevation
 - Prop. Elevation
 - Prop. Type "F" Curb & Gutter
 - Prop. Catch Basin
 - Prop. Drainage MH
 - Conc. Sidewalk Reconstruction
 - 1" Milling and 1" Type S-III Resurfacing
 - Driveway Reconstruction
- PROFILE**
- Exist. Left EOP
 - Exist. Right EOP
 - Exist. E (Profile)



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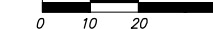
SPECIAL PROFILE
 NW 19TH CT

SHEET NO.

C-11

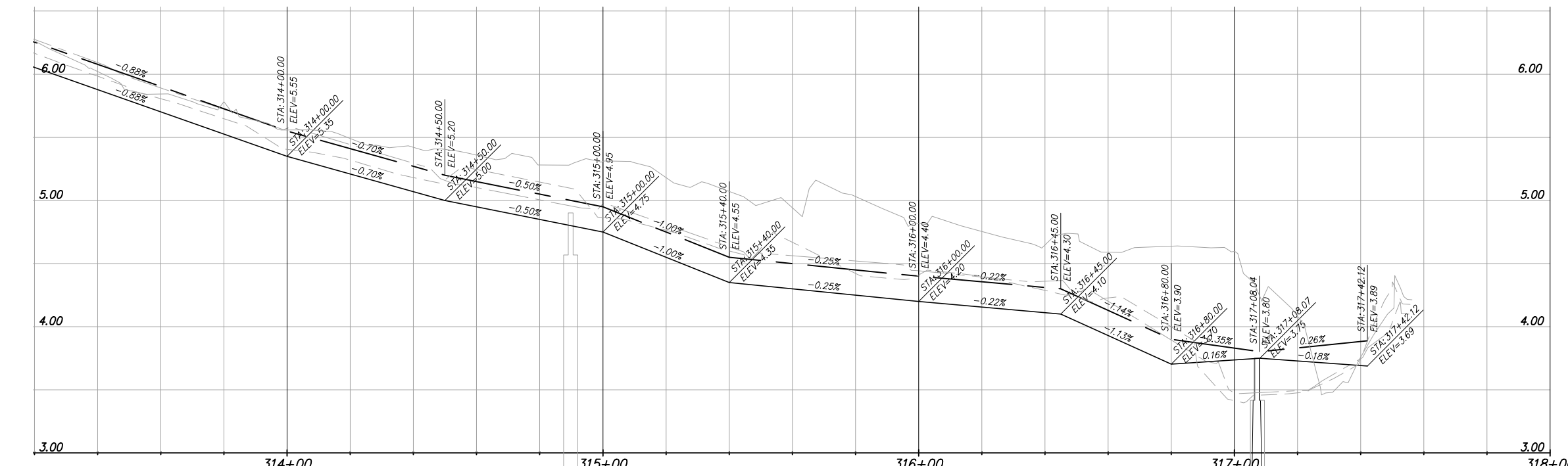
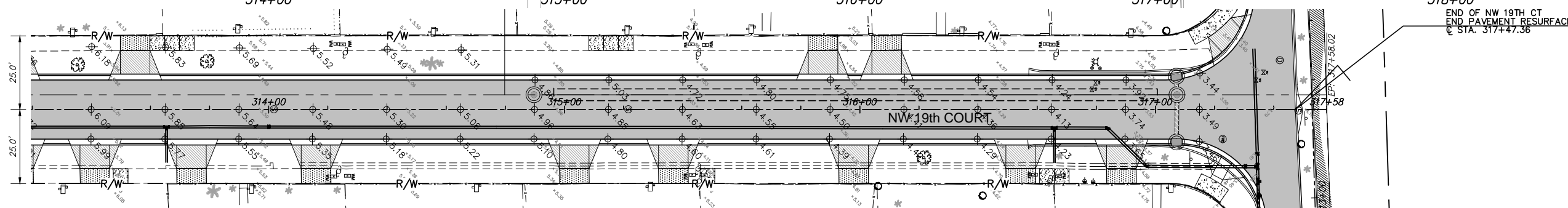
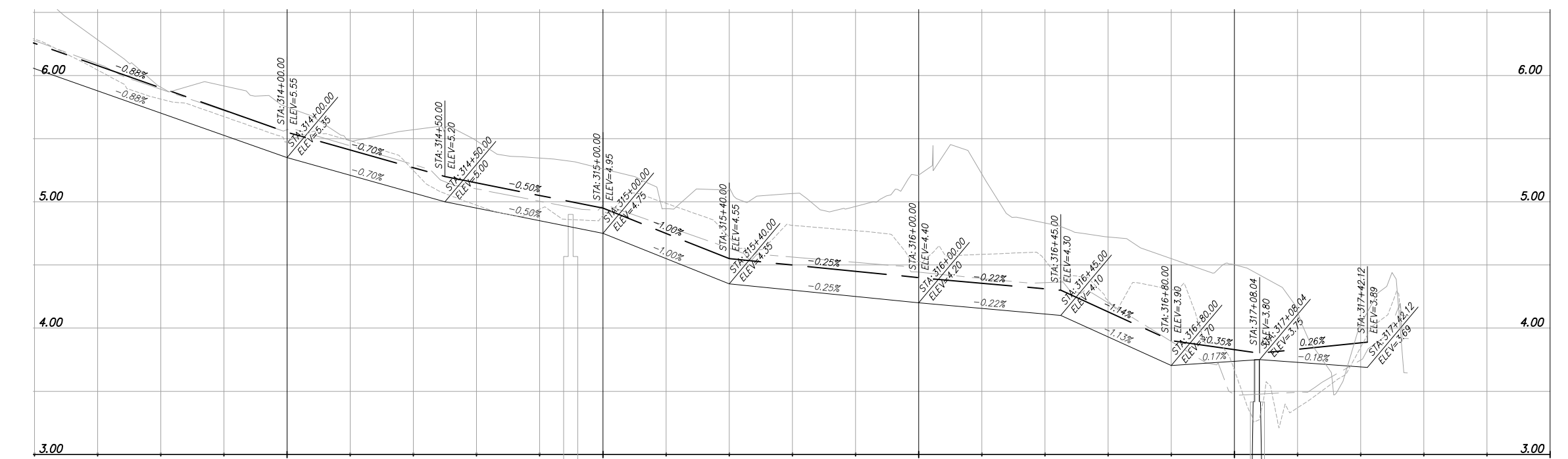


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LEGEND

- Property Line
 - Right of Way Line
 - Center Line
 - Exist. Type "F" Gutter
 - Exist. Edge of Pavement
 - Exist. Storm Drainage
 - Exist. Chain Link Fence
 - Monument Line
 - Existing Catch Basin
 - Exist. Light Pole/PullBox
 - Exist. Storm MH
 - Exist. Fire Hydrant
 - Exist. Trees To Remain
 - Existing San. MH
 - Existing Water Valve
 - Existing Elevation
 - Prop. Elevation
 - Prop. Type "F" Curb & Gutter
 - Prop. Catch Basin
 - Prop. Drainage MH
 - Conc. Sidewalk Reconstruction
 - 1" Milling and 1" Type S-III Resurfacing
 - Driveway Reconstruction
- PROFILE**
- Exist. Left EOP
 - Exist. Right EOP
 - Exist. E (Profile)



REVISIONS		
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 CITY OF MIAMI
 GROVE PARK ROADWAY & DRAINAGE
 IMPROVEMENTS

PROJECT No.
B-40347

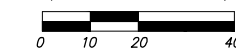


SPECIAL PROFILE
 NW 19TH CT

SHEET NO.
C-12

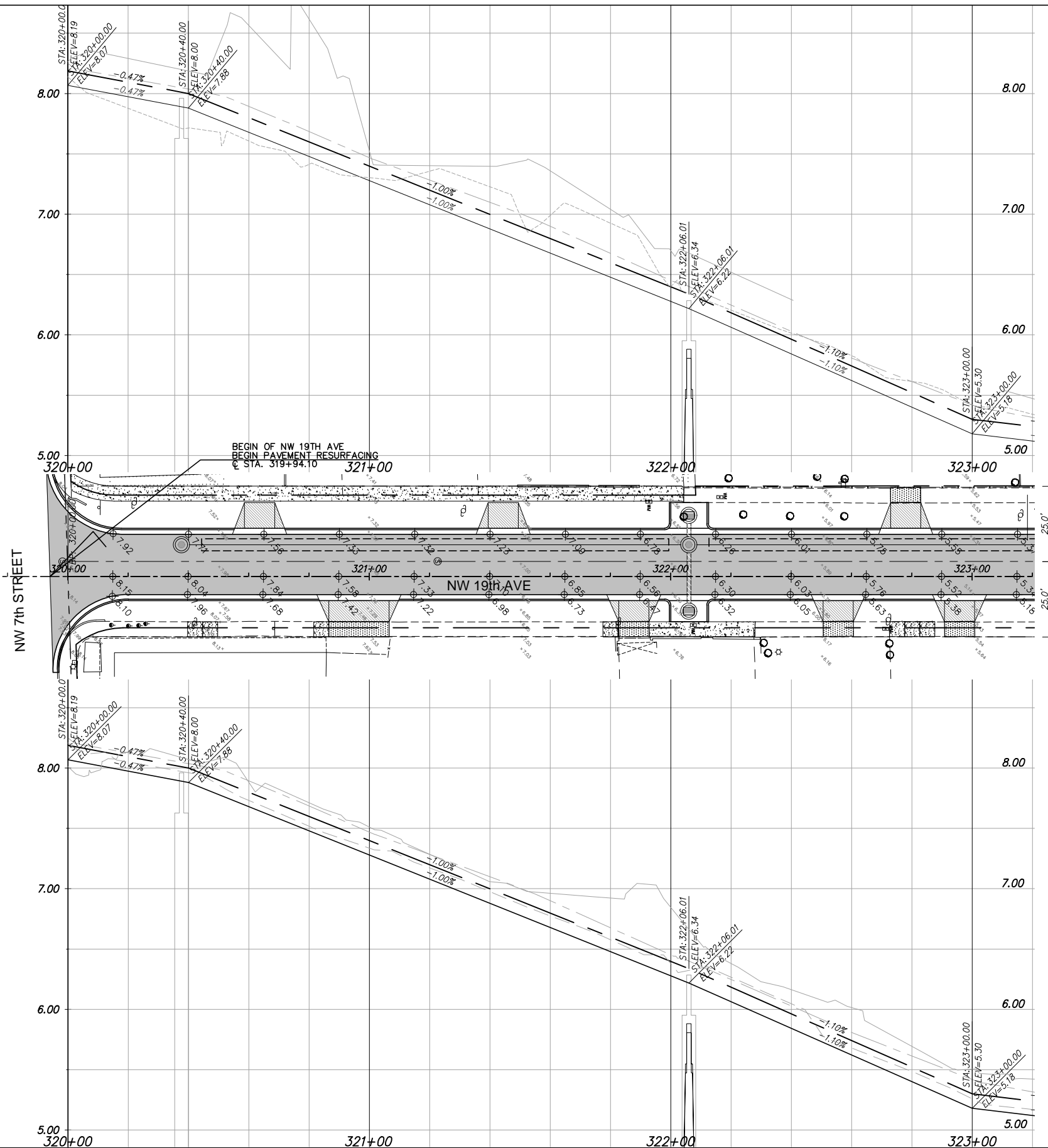


Scale: 1" = 20'
(Reduced Scale: 1" = 40')



LEGEND

- Property Line
- Right of Way Line
- Center Line
- Exist. Type "F" Gutter
- Exist. Edge of Pavement
- Exist. Storm Drainage
- Exist. Chain Link Fence
- Monument Line
- Existing Catch Basin
- Exist. Light Pole/PullBox
- Exist. Storm MH
- Exist. Fire Hydrant
- Exist. Trees To Remain
- Existing San. MH
- Existing Water Valve
- Existing Elevation
- Prop. Elevation
- Prop. Type "F" Curb & Gutter
- Prop. Catch Basin
- Prop. Drainage MH
- Conc. Sidewalk Reconstruction
- 1" Milling and 1" Type S-II Resurfacing
- Driveway Reconstruction
- PROFILE**
- Exist. Left EOP
- Exist. Right EOP
- Exist. E (Profile)



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 CAPITAL IMPROVEMENTS PROGRAM
 PROJECT NAME: CITY OF MIAMI GROVE PARK ROADWAY & DRAINAGE IMPROVEMENTS
 PROJECT No.: B-40347

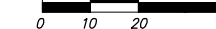


SPECIAL PROFILE
 NW 19TH AVE

SHEET NO.
C-13

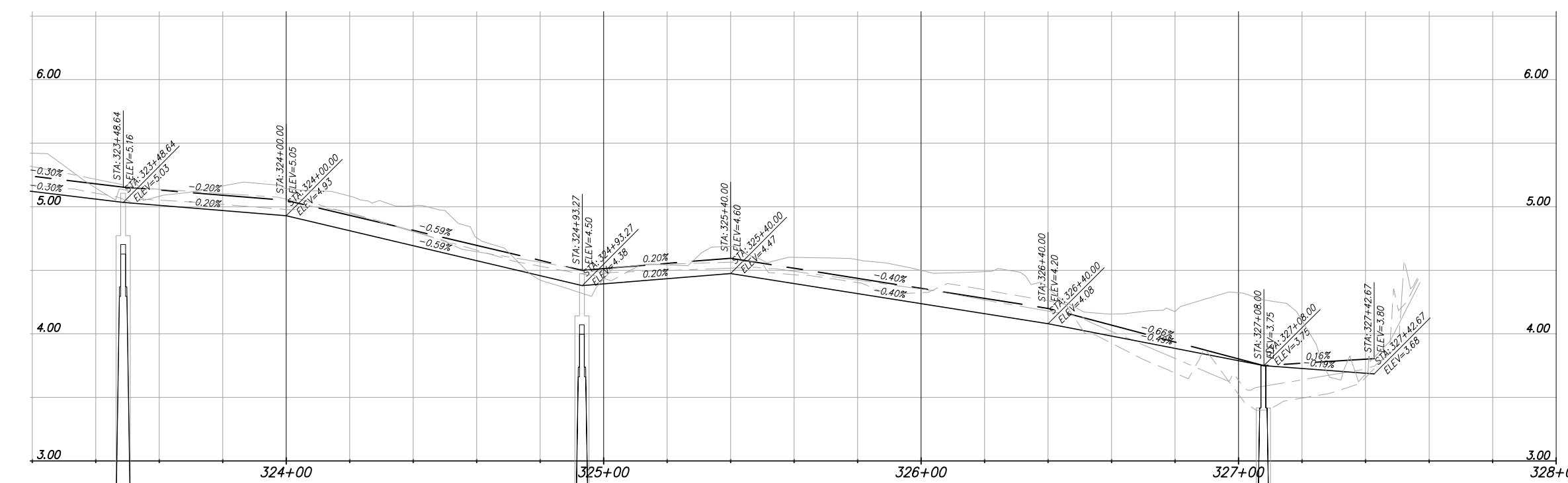
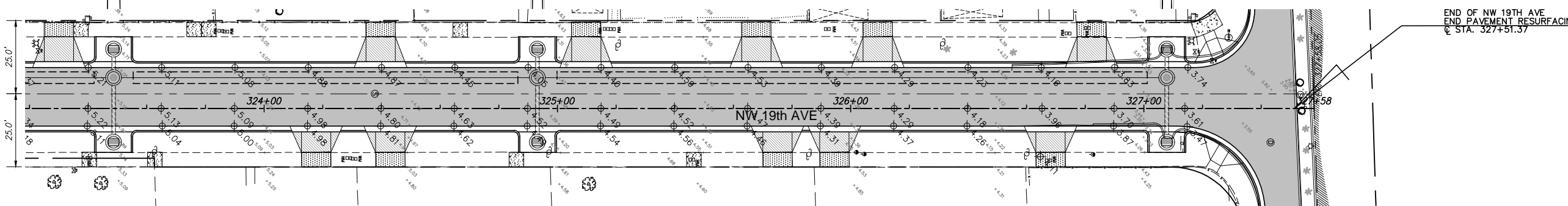
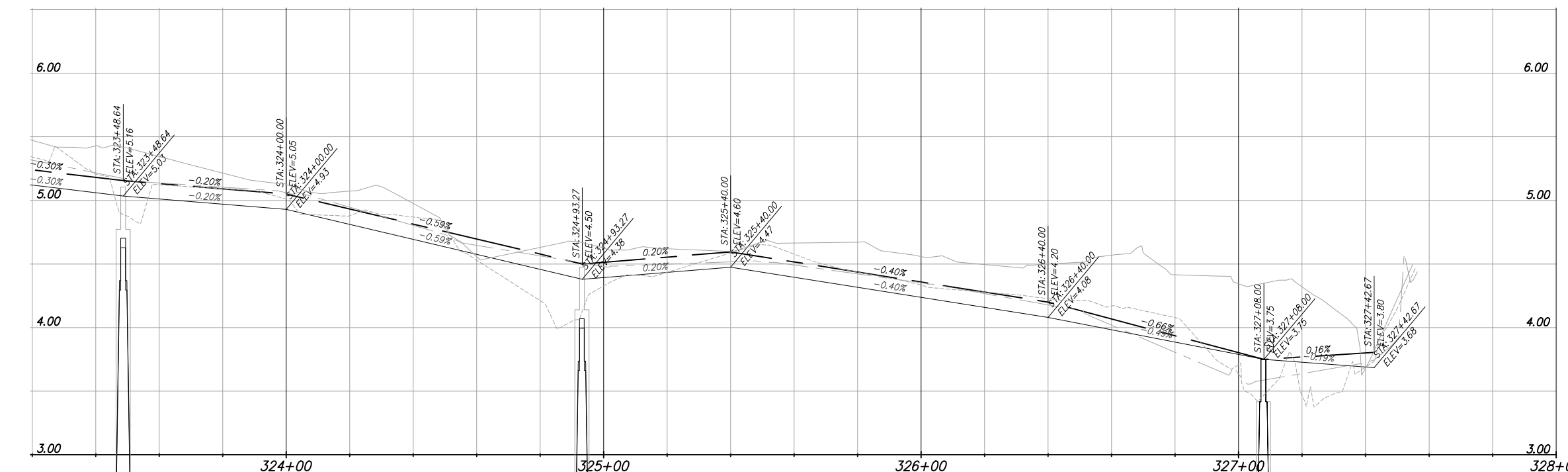


Scale: 1" = 20'
(Reduced Scale: 1" = 40')



LEGEND

- Property Line
 - Right of Way Line
 - Center Line
 - Exist. Type "F" Gutter
 - Exist. Edge of Pavement
 - Exist. Storm Drainage
 - Exist. Chain Link Fence
 - Monument Line
 - Existing Catch Basin
 - Exist. Light Pole/PullBox
 - Exist. Storm MH
 - Exist. Fire Hydrant
 - Exist. Trees To Remain
 - Existing San. MH
 - Existing Water Valve
 - Existing Elevation
 - Prop. Elevation
 - Prop. Type "F" Curb & Gutter
 - Prop. Catch Basin
 - Prop. Drainage MH
 - Conc. Sidewalk Reconstruction
 - 1" Milling and 1" Type S-III Resurfacing
 - Driveway Reconstruction
- PROFILE**
- Exist. Left EOP
 - Exist. Right EOP
 - Exist. E (Profile)



REVISIONS		
DATE	BY	DESCRIPTION

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SPECIAL PROFILE
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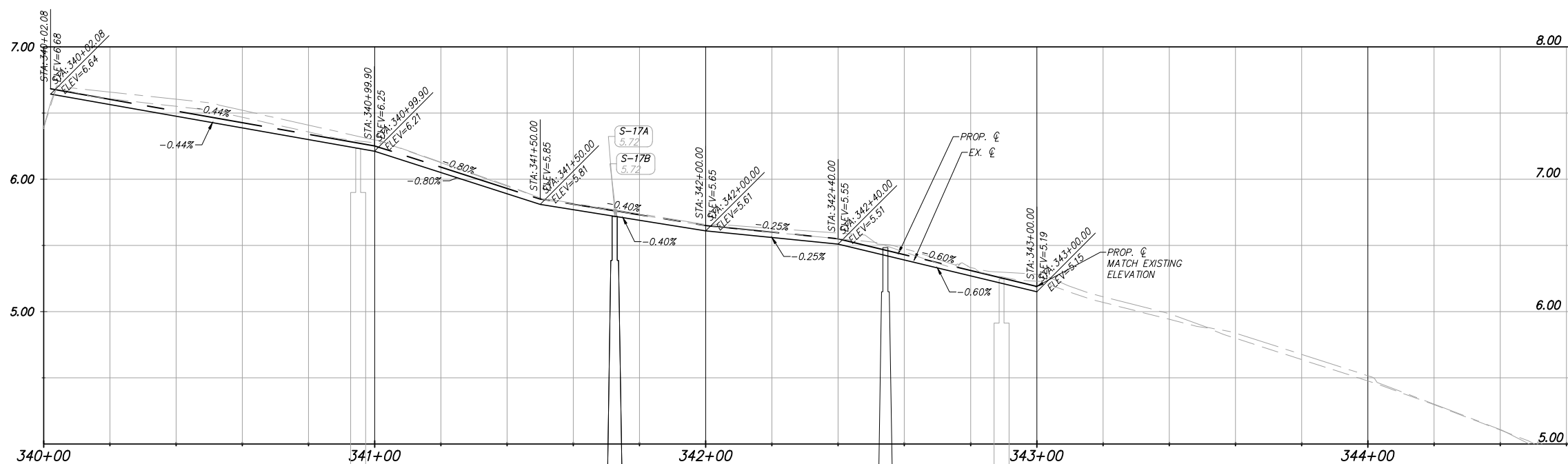
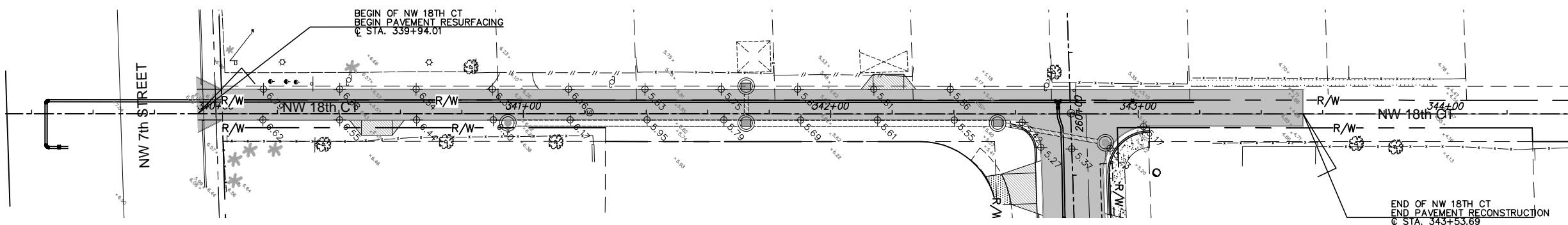
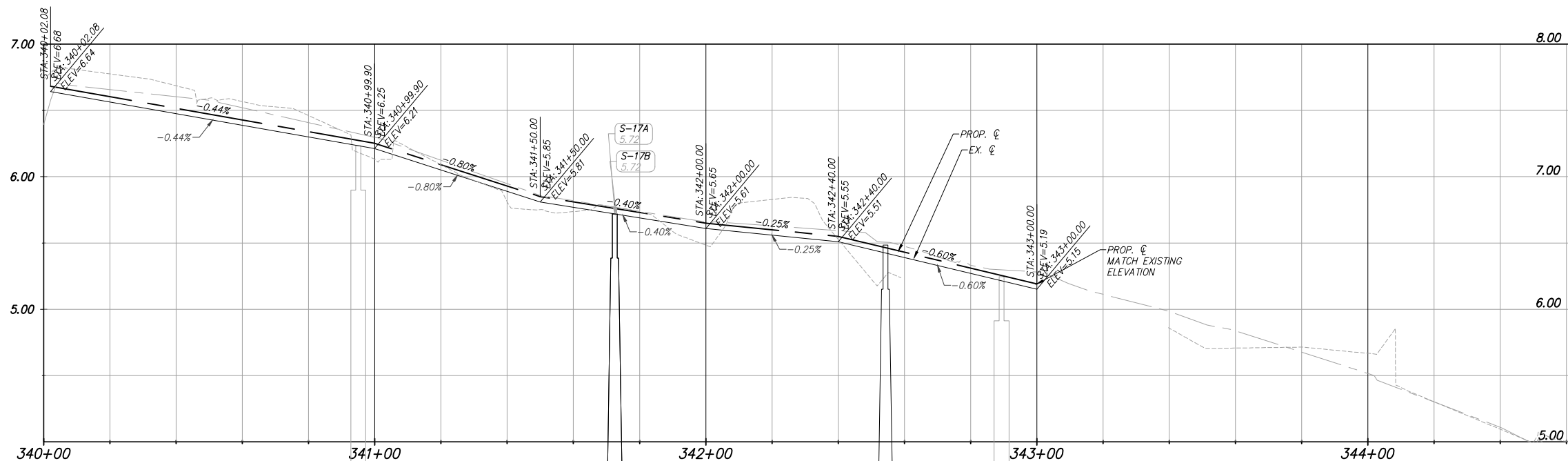
SHEET NO.
C-14



Scale: 1" = 20'
(Reduced Scale: 1" = 40')



LEGEND	
	Property Line
	Right of Way Line
	Center Line
	Exist. Type "F" Gutter
	Exist. Edge of Pavement
	Exist. Storm Drainage
	Exist. Chain Link Fence
	Monument Line
	Existing Catch Basin
	Exist. Light Pole/PullBox
	Exist. Storm MH
	Exist. Fire Hydrant
	Exist. Trees To Remain
	Existing San. MH
	Existing Water Valve
	Existing Elevation
	Prop. Elevation
	Prop. Type "F" Curb & Gutter
	Prop. Catch Basin
	Prop. Drainage MH
	Conc. Sidewalk Reconstruction
	1" Milling and 1" Type S-III Resurfacing
	Driveway Reconstruction
PROFILE	
	Exist. Left EOP
	Exist. Right EOP
	Exist. E (Profile)



REVISIONS		
DATE	BY	DESCRIPTION

EOR

CARLOS M. HERDOCIA, PE.
#47660



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CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM

PROJECT NAME
CITY OF MIAMI
GROVE PARK ROADWAY & DRAINAGE
IMPROVEMENTS

PROJECT No.
B-40347



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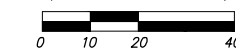
SPECIAL PROFILE
NW 18TH COURT

SHEET NO.

C-15

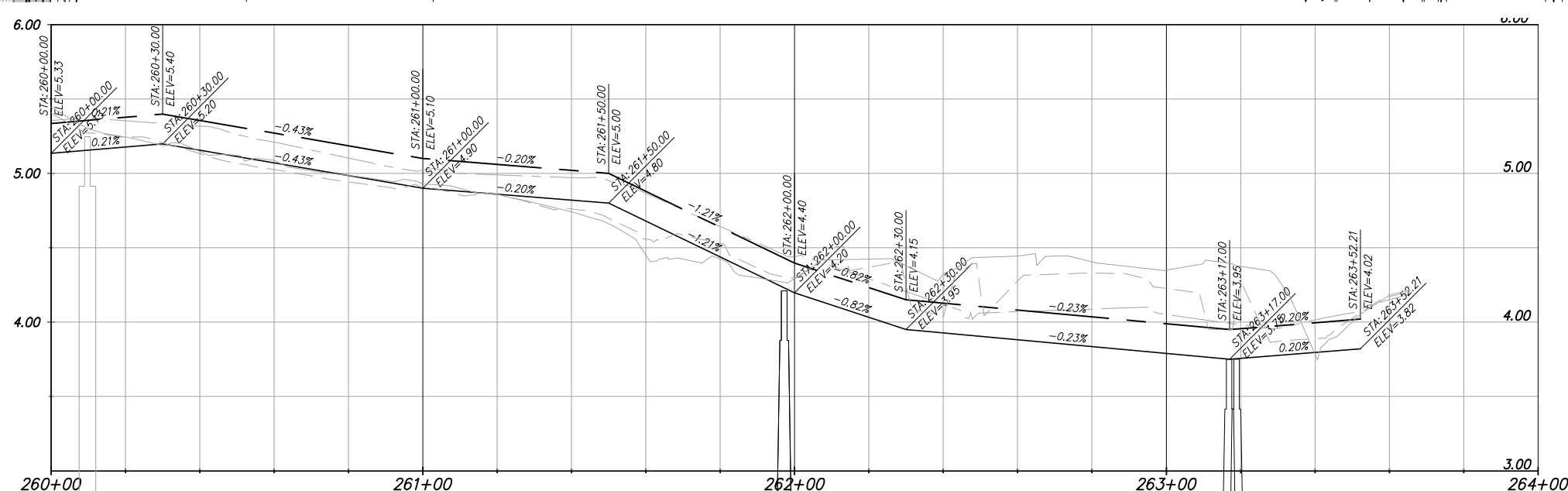
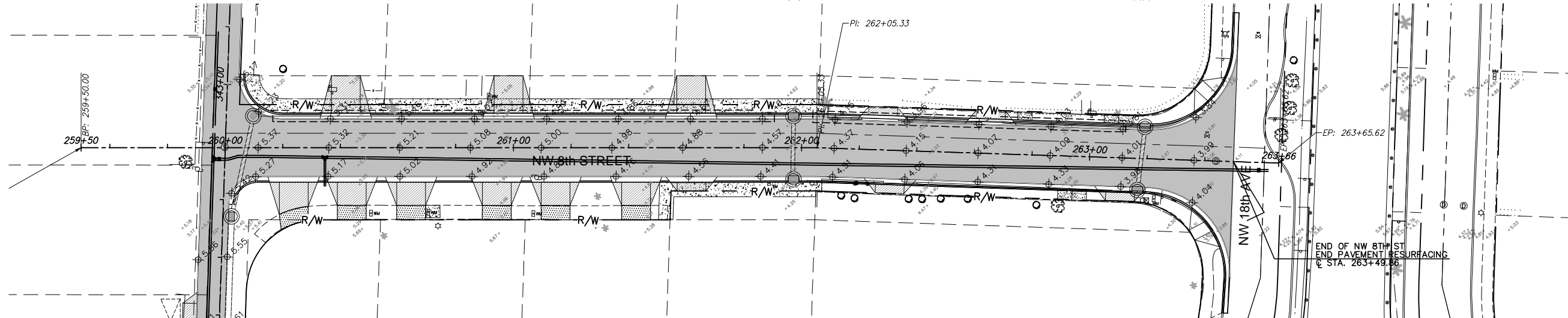
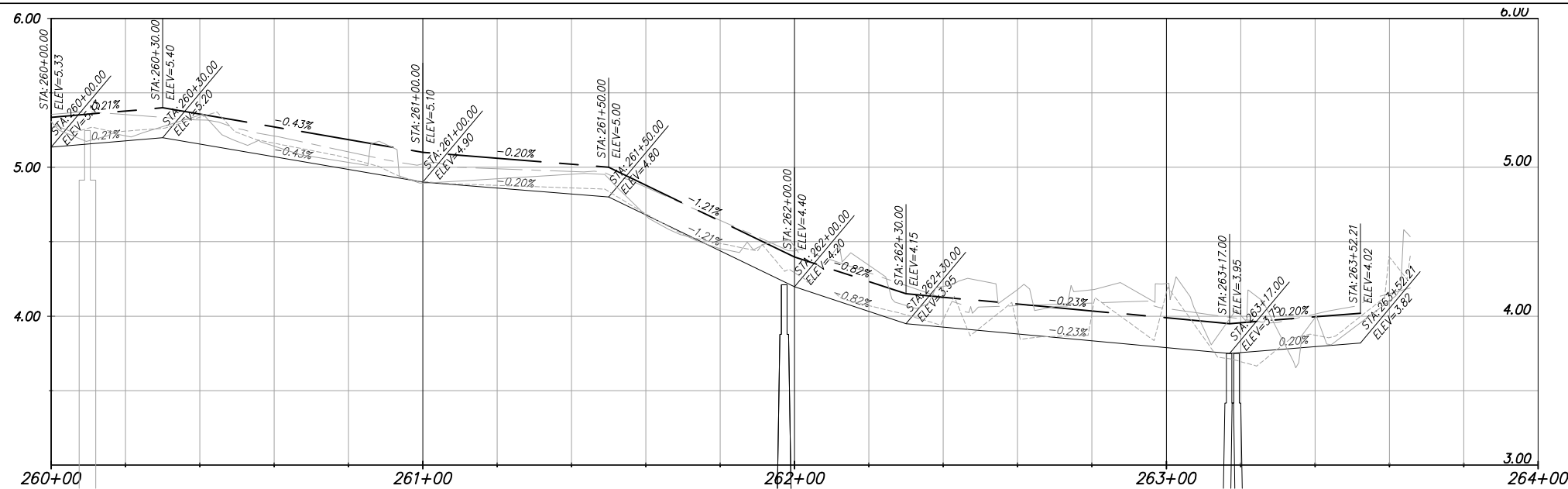


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(Reduced Scale: 1" = 40')



LEGEND

- Property Line
- Right of Way Line
- Center Line
- Exist. Type "F" Gutter
- Exist. Edge of Pavement
- Exist. Storm Drainage
- Exist. Chain Link Fence
- Monument Line
- Existing Catch Basin
- Exist. Light Pole/PullBox
- Exist. Storm MH
- Exist. Fire Hydrant
- Exist. Trees To Remain
- Existing San. MH
- Existing Water Valve
- Existing Elevation
- Prop. Elevation
- Prop. Type "F" Curb & Gutter
- Prop. Catch Basin
- Prop. Drainage MH
- Conc. Sidewalk Reconstruction
- 1" Milling and 1" Type S-III Resurfacing
- Driveway Reconstruction
- PROFILE**
- Exist. Left EOP
- Exist. Right EOP
- Exist. Profile



REVISIONS		
DATE	BY	DESCRIPTION

EOR
 CARLOS M. HERDOCIA, PE.
 #47660



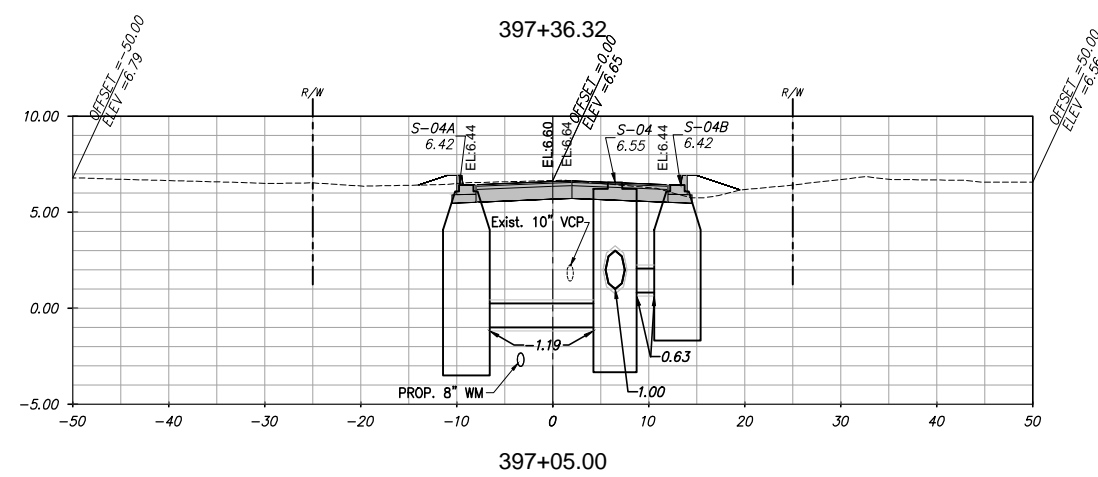
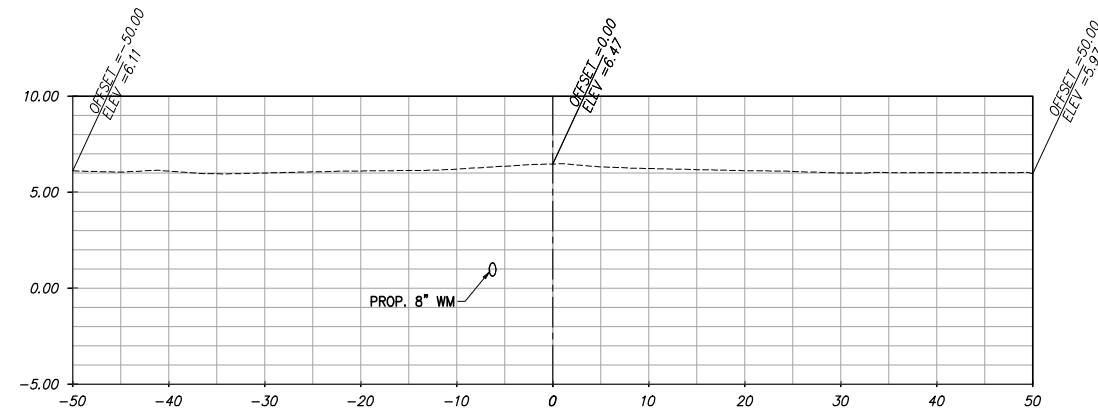
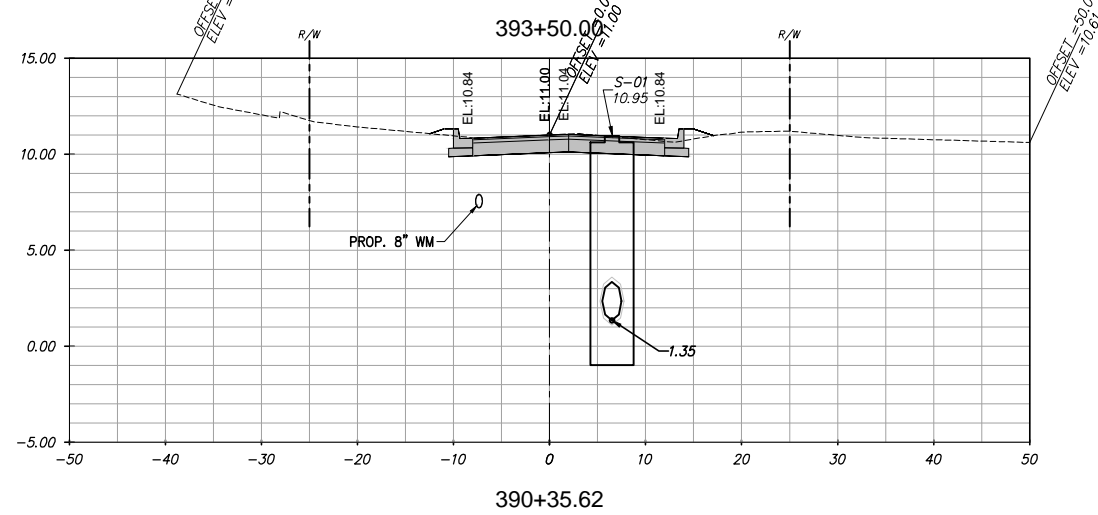
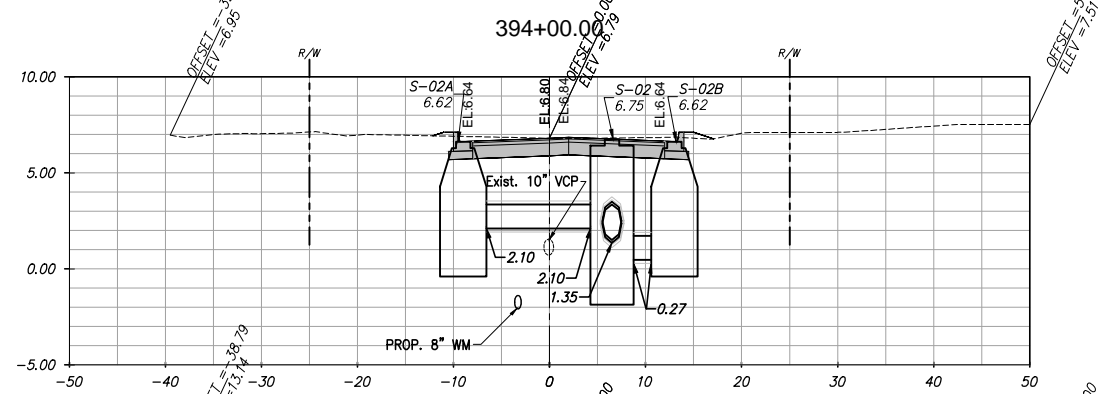
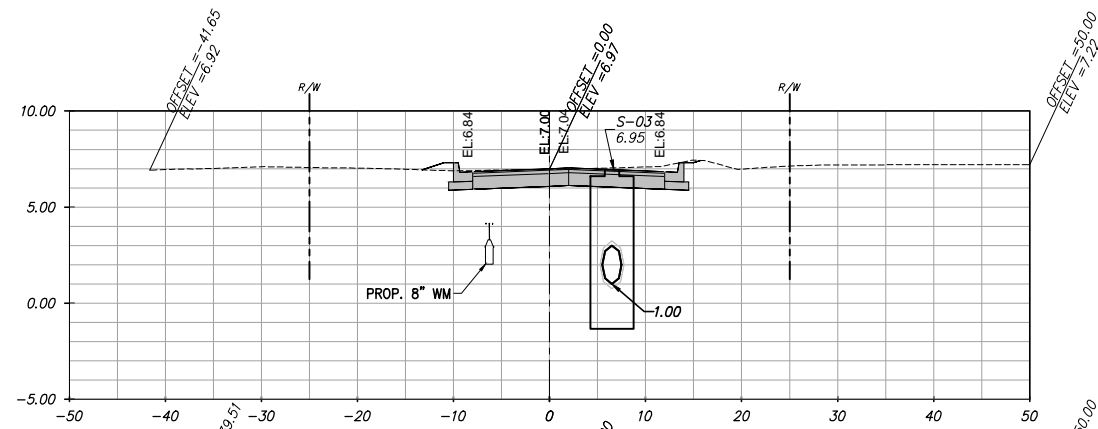
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 PROJECT No.: B-40347



SPECIAL PROFILE
 NW 8TH STREET

SHEET NO.
C-16



REVISIONS		
DATE	BY	DESCRIPTION

EOR
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 #47660



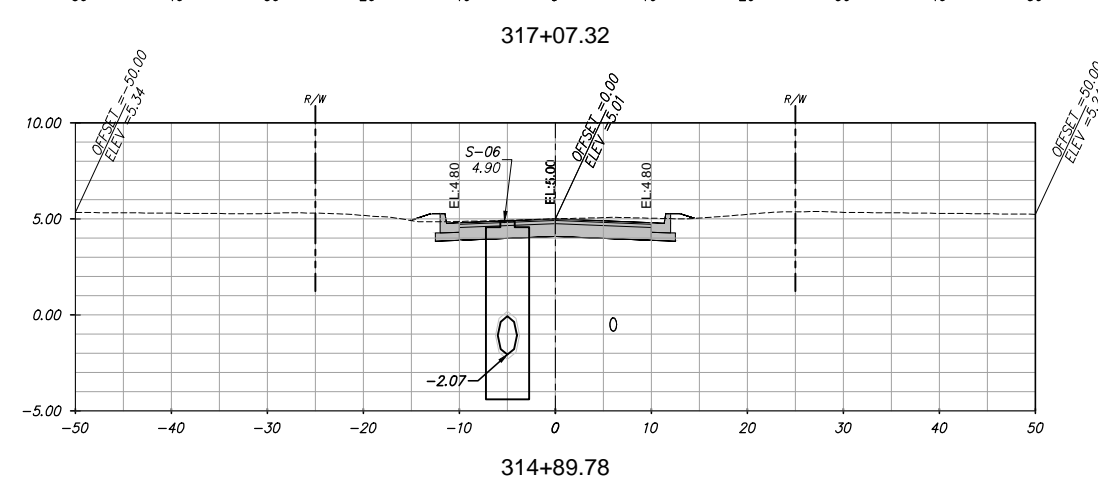
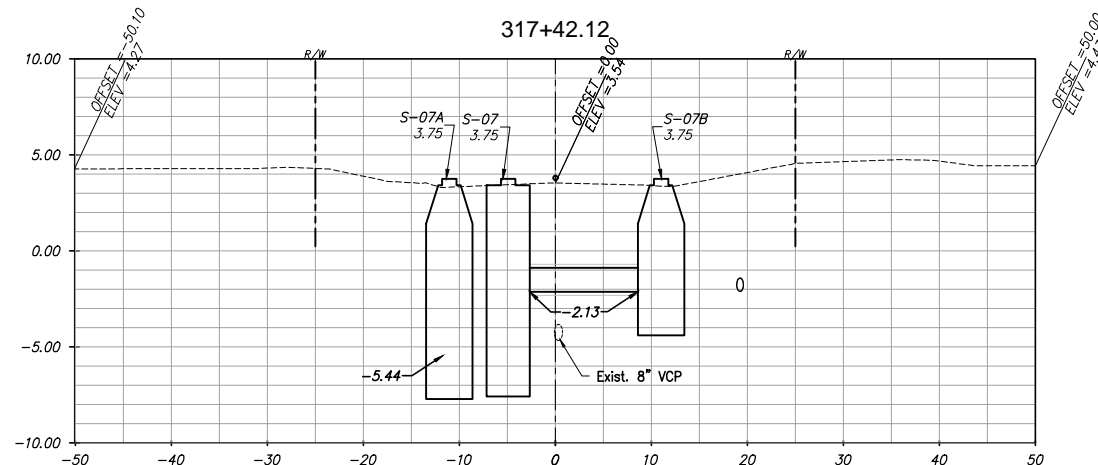
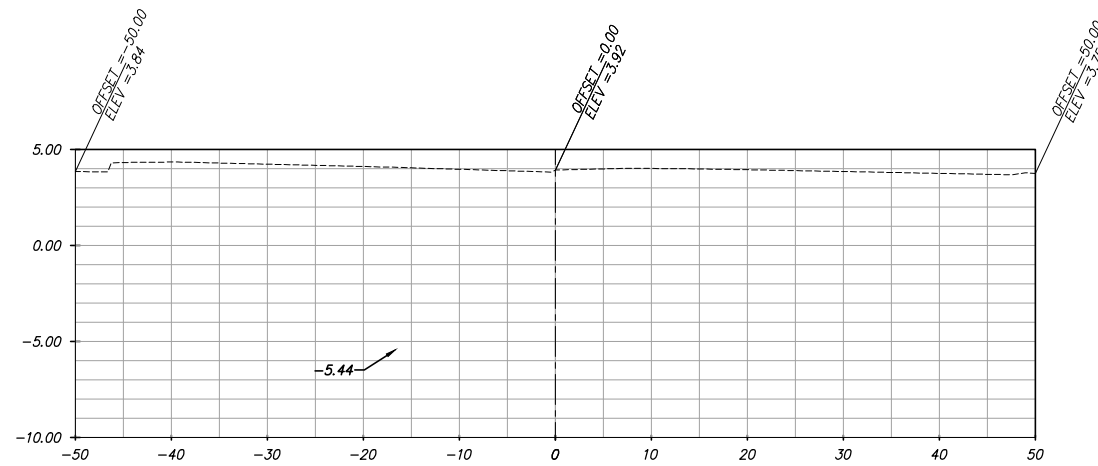
CITY OF MIAMI
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CAPITAL IMPROVEMENTS PROGRAM
 PROJECT NAME
 CITY OF MIAMI
 GROVE PARK ROADWAY & DRAINAGE
 IMPROVEMENTS
 PROJECT No.
B-40347



DRAINAGE STRUCTURES SECTIONS
NW 21ST CT

SHEET
 NO.
C-17



REVISIONS		
DATE	BY	DESCRIPTION

EOR
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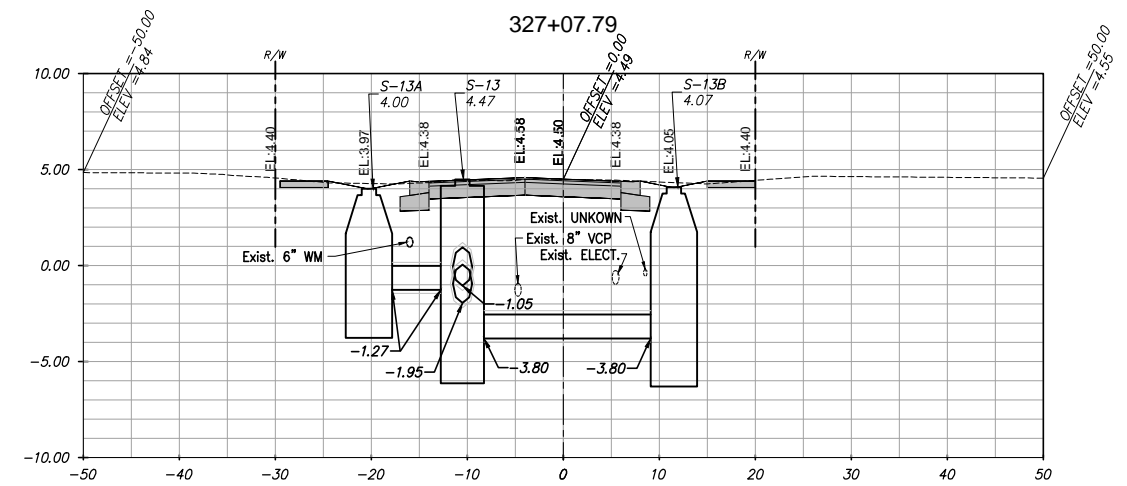
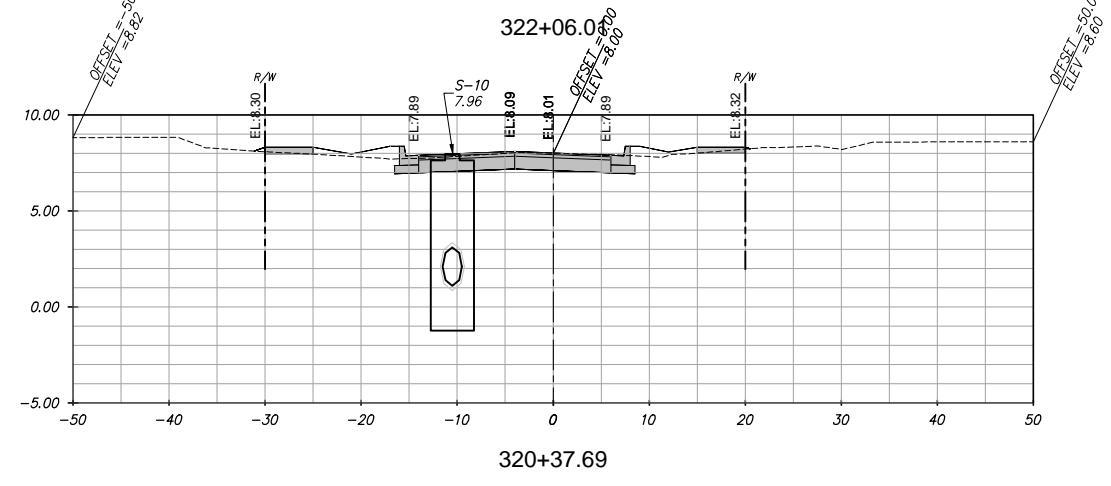
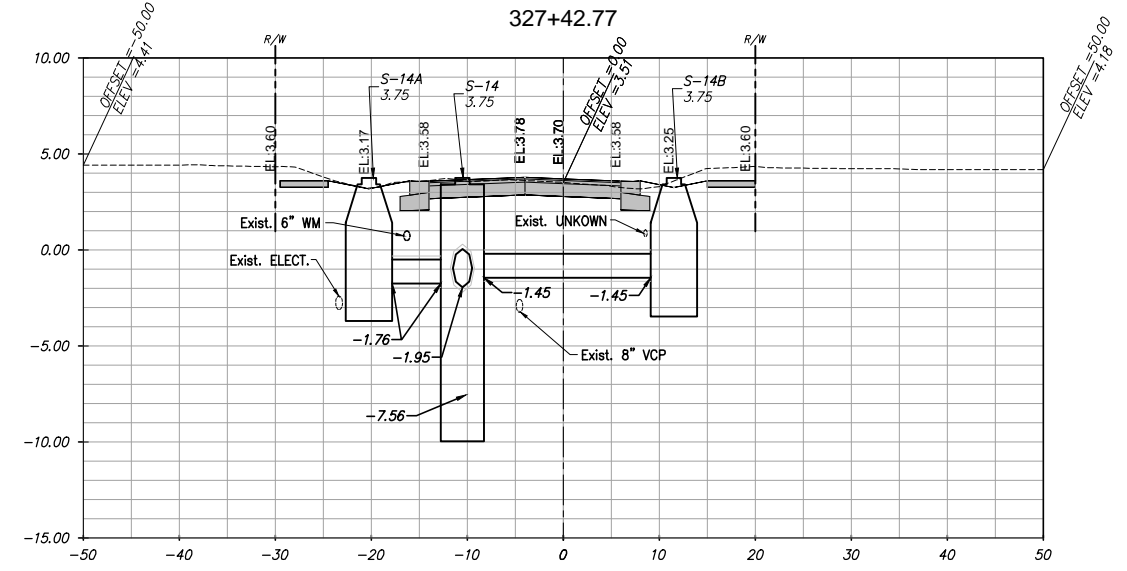
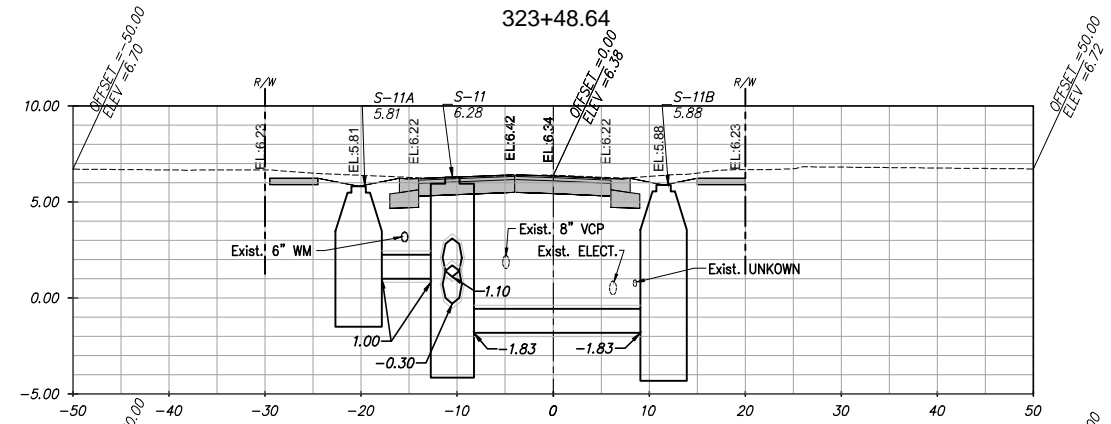
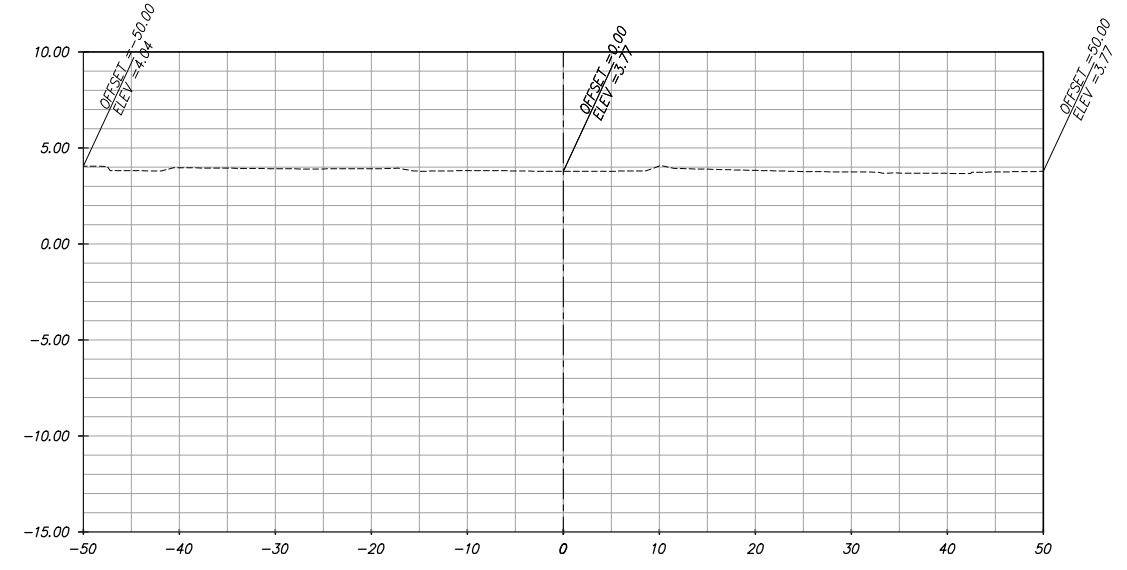
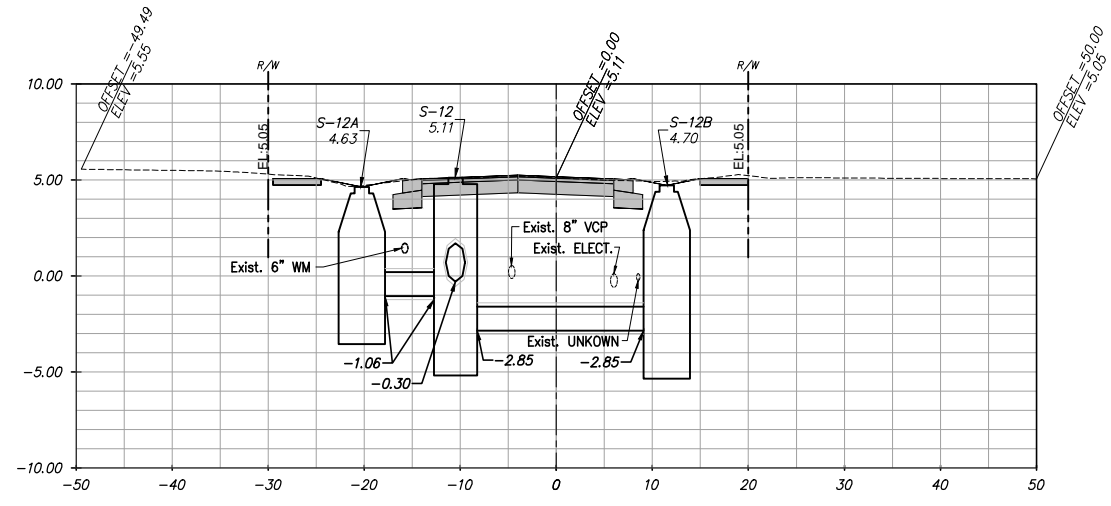
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 PROJECT No.: B-40347



DRAINAGE STRUCTURES SECTIONS
NW 19TH CT

SHEET NO.
C-18



REVISIONS		
DATE	BY	DESCRIPTION

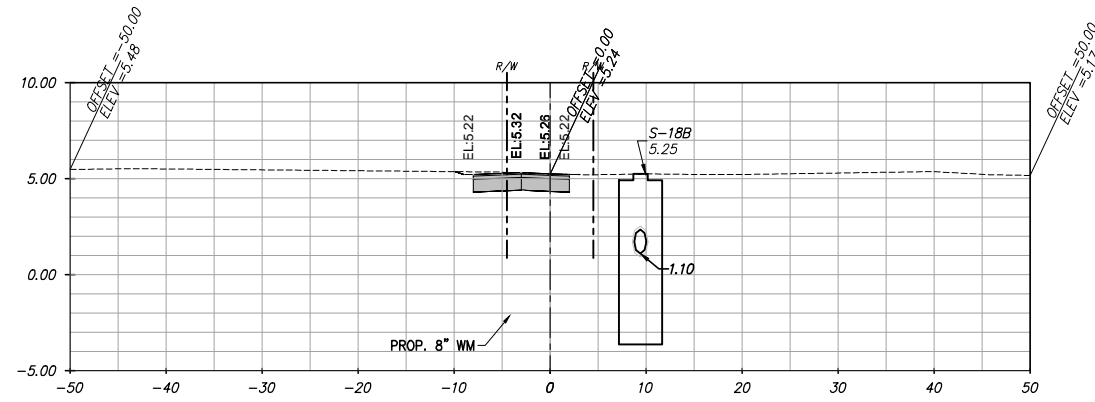
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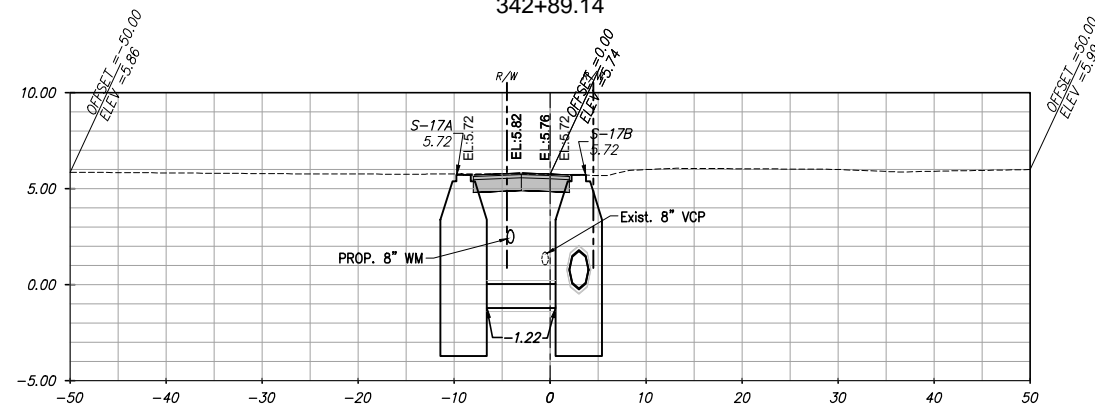
CITY OF MIAMI
 CAPITAL IMPROVEMENTS PROGRAM
 PROJECT NAME
 CITY OF MIAMI
 GROVE PARK ROADWAY & DRAINAGE
 IMPROVEMENTS
 PROJECT NO.
B-40347

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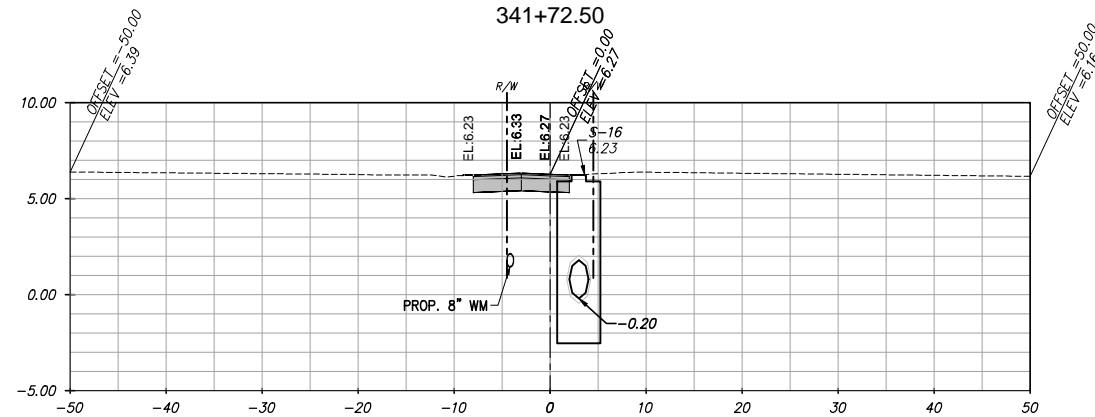
DRAINAGE STRUCTURES SECTIONS
 NW 19TH AVE
C-19



342+89.14



341+72.50



340+95.00

REVISIONS

DATE	BY	DESCRIPTION

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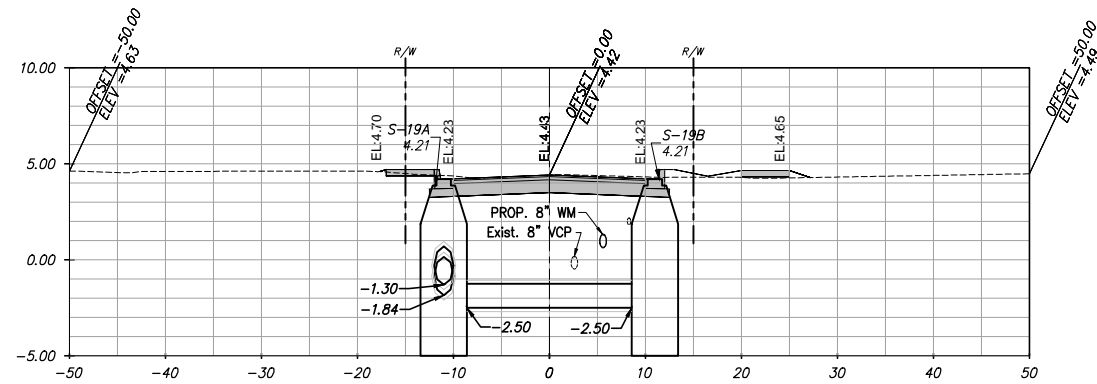
PROJECT NAME	PROJECT No.
CITY OF MIAMI GROVE PARK ROADWAY & DRAINAGE IMPROVEMENTS	B-40347



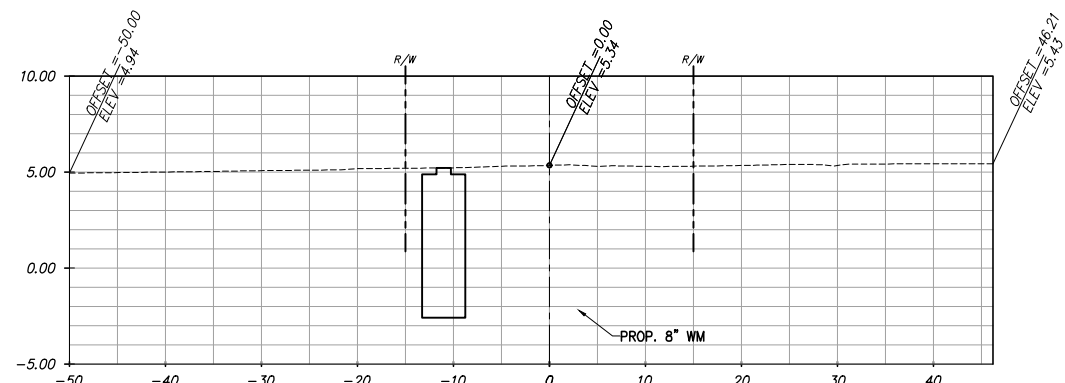
DRAINAGE STRUCTURES SECTIONS
NW 18TH CT

SHEET
NO.

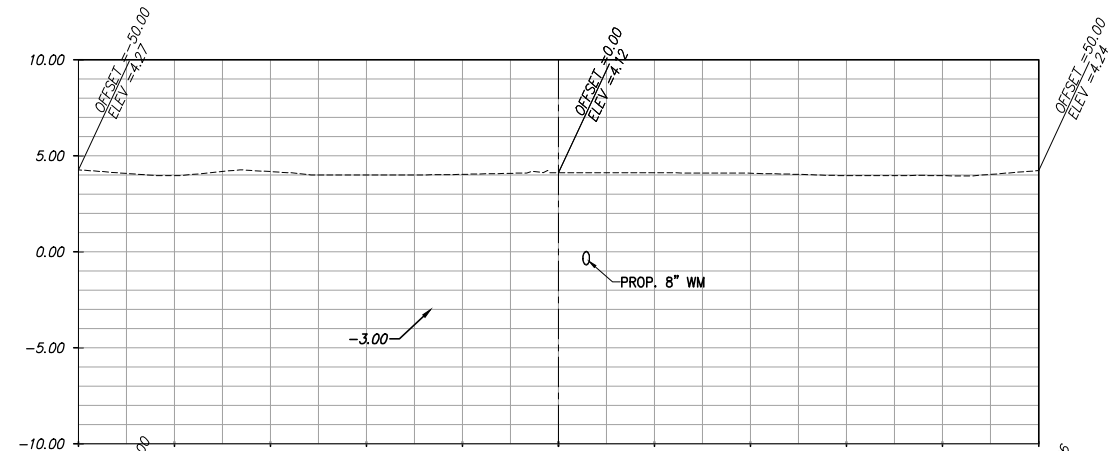
C-20



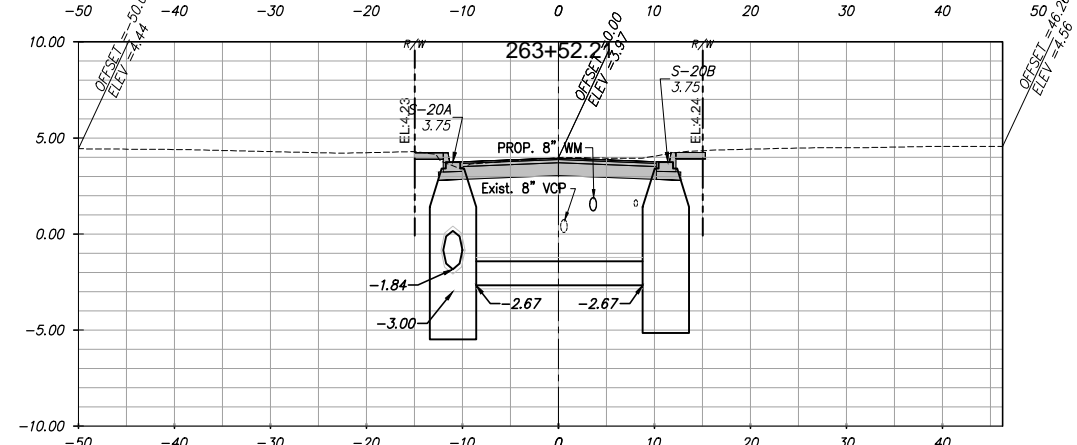
261+97.21



260+03.37



263+52.21



263+18.88

REVISIONS		
DATE	BY	DESCRIPTION

EOR
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 PROJECT No.: B-40347



DRAINAGE STRUCTURES SECTIONS
NW 8TH STREET

SHEET NO.
C-21

SUMMARY OF DRAINAGE STRUCTURES drainage NW 21st CT								
Structure Number	STATION	OFFSET	Structure Type	FRAME & GRATE	Rim Elev.	Pipe Inverts	Bottom (Sump) Elev.	Pollution Retardant Baffle N S E W
S-01	390+35.62'	6.50' R	MH TYPE A	TYPE A	10.95	24" HDPE (1.35) (N)	-0.65	
S-02	393+50.00'	6.50' R	MH TYPE A	TYPE A	6.75	24" HDPE (1.35) (S) 15" HDPE (0.46) (E) 15" HDPE (2.10) (W) 24" HDPE (1.50) (N)	-1.54	
S-02A	393+50.00'	-9.00' L	Curb Inlet TYPE D	USF 5129	6.62	15" HDPE (2.10) (E)	0.10	
S-02B	393+50.00'	13.00' R	Curb Inlet TYPE D	USF 5129	6.62	15" HDPE (0.46) (W)	0.10	
S-03	394+00.00'	6.50' R	MH TYPE A	TYPE A	6.95	24" HDPE (1.00) (N) 24" HDPE (1.00) (S)	-1.00	
S-04	397+05.00'	6.50' R	MH TYPE A	TYPE A	6.55	24" HDPE (1.00) (S) 24" HDPE (1.00) (N) 15" HDPE (0.82) (E) 15" HDPE (-1.00) (W)	-3.00	
S-04A	397+05.00'	-9.00' L	Curb Inlet TYPE D	USF 5129	6.42	15" HDPE (-1.00) (E)	-3.00	
S-04B	397+05.00'	13.00' R	Curb Inlet TYPE D	USF 5129	6.42	15" HDPE (0.82) (W)	-1.18	
S-05	397+20.70'	6.50' R	MH TYPE A	TYPE A	6.34	24" HDPE (1.00) (S) 12" HDPE (1.00) (NE)	-1.20	

SUMMARY OF DRAINAGE STRUCTURES drainage NW 19th CT								
Structure Number	STATION	OFFSET	Structure Type	FRAME & GRATE	Rim Elev.	Pipe Inverts	Bottom (Sump) Elev.	Pollution Retardant Baffle N S E W
S-06	314+89.78'	-5.00' L	MH TYPE A	Standard	4.90	24" 24 inch HDPE (-2.07) (N)	-4.07	
S-07	317+07.32'	-5.00' L	MH TYPE A	Standard	3.75	24" 24 inch HDPE (-2.07) (S) 15" 15 inch HDPE (-1.40) (W) 15" 15 inch HDPE (-2.13) (E)	-7.25	
S-07A	317+07.13'	-11.23' L	Curb Inlet TYPE D	Standard	3.75	15" 15 inch HDPE (-1.40) (E)	-7.21	
S-07B	317+07.22'	11.00' R	Curb Inlet TYPE D	Standard	3.75	15" 15 inch HDPE (-2.13) (W)	-3.90	

SUMMARY OF DRAINAGE STRUCTURES drainage NW 19 ave								
Structure Number	STATION	OFFSET	Structure Type	FRAME & GRATE	Rim Elev.	Pipe Inverts	Bottom (Sump) Elev.	Pollution Retardant Baffle N S E W
S-10	320+37.69'	-10.50' L	MH TYPE A	Standard	7.96	24" 24 inch HDPE (1.10) (N)	-0.90	
S-11	322+06.01'	-10.50' L	MH TYPE A	Standard	6.28	24" 24 inch HDPE (1.10) (S) 24" 24 inch HDPE (-0.30) (N) 15" 15 inch HDPE (1.00) (W) 15" 15 inch HDPE (-1.83) (E)	-3.83	
S-11A	322+06.02'	-20.25' L	Curb Inlet TYPE D	Standard	5.81	15" 15 inch HDPE (1.00) (E)	-1.00	
S-11B	322+06.01'	11.50' R	Curb Inlet TYPE D	Standard	5.88	15" 15 inch HDPE (-1.83) (W)	-3.83	
S-12	323+48.64'	-10.50' L	MH TYPE A	Standard	5.11	24" 24 inch HDPE (-0.30) (S) 24" 24 inch HDPE (-1.05) (N) 15" 15 inch HDPE (-1.06) (W) 15" 15 inch HDPE (-2.85) (E)	-4.85	
S-12A	323+48.64'	-20.25' L	Curb Inlet TYPE D	Standard	4.63	15" 15 inch HDPE (-1.06) (E)	-3.06	
S-12B	323+48.64'	11.50' R	Curb Inlet TYPE D	Standard	4.70	15" 15 inch HDPE (-2.85) (W)	-4.85	
S-13	324+93.17'	-10.50' L	MH TYPE A	Standard	4.47	24" 24 inch HDPE (-1.05) (S) 24" 24 inch HDPE (-1.95) (N) 15" 15 inch HDPE (-1.27) (W) 15" 15 inch HDPE (-3.80) (E)	-5.80	
S-13A	324+93.17'	-20.25' L	Curb Inlet TYPE D	Standard	4.00	15" 15 inch HDPE (-1.27) (E)	-3.27	
S-13B	324+93.13'	11.50' R	Curb Inlet TYPE D	Standard	4.07	15" 15 inch HDPE (-3.80) (W)	-5.80	
S-14	327+07.79'	-10.50' L	MH TYPE A	Standard	3.75	24" 24 inch HDPE (-1.95) (S) 15" 15 inch HDPE (-1.76) (W) 15" 15 inch HDPE (-1.45) (E)	-9.64	
S-14A	327+07.81'	-20.25' L	Curb Inlet TYPE D	Standard	3.75	15" 15 inch HDPE (-1.76) (E)	-3.21	
S-14B	327+07.79'	11.50' R	Curb Inlet TYPE D	Standard	3.75	15" 15 inch HDPE (-1.45) (W)	-2.98	

SUMMARY OF DRAINAGE STRUCTURES Drainage NW 18 CT								
Structure Number	STATION	OFFSET	Structure Type	FRAME & GRATE	Rim Elev.	Pipe Inverts	Bottom (Sump) Elev.	Pollution Retardant Baffle N S E W
S-16	340+95.00'	3.00' R	MH TYPE A	Standard	6.23	24" 24 inch HDPE (-0.20) (N)	-2.20	
S-17A	341+72.50'	-9.00' L	Ditch Bottom Inlet 48 dia	Standard	5.72	15" 15 inch HDPE (-1.22) (E)	-3.22	
S-17B	341+72.50'	3.00' R	Ditch Bottom Inlet 48 dia	Standard	5.72	24" 24 inch HDPE (-0.20) (S) 24" 24 inch HDPE (-0.25) (N) 15" 15 inch HDPE (-1.22) (W)	-3.22	
S-18A	342+54.29'	3.00' R	Ditch Bottom Inlet 48 dia	Standard	5.48	24" 24 inch HDPE (-0.25) (S) 15" 15 inch RCP (1.10) (N)	-2.18	
S-18B	342+89.36'	9.43' R	MH TYPE A	Standard	5.25	15" 15 inch RCP (1.10) (S)	-3.30	

SUMMARY OF DRAINAGE STRUCTURES drainage NW 8 ST								
Structure Number	STATION	OFFSET	Structure Type	FRAME & GRATE	Rim Elev.	Pipe Inverts	Bottom (Sump) Elev.	Pollution Retardant Baffle N S E W
S-19A	261+97.21'	-11.00' L	Curb Inlet TYPE D	Standard	4.21	24" 24 inch HDPE (-1.84) (E) 24" 24 inch HDPE (-1.30) (W) 15" 15 inch HDPE (-2.50) (S)	-4.50	
S-19B	261+97.21'	11.00' R	Curb Inlet TYPE D	Standard	4.21	15" 15 inch HDPE (-2.50) (N)	-4.50	
S-20A	263+18.88'	-11.00' L	Curb Inlet TYPE D	Standard	3.75	24" 24 inch HDPE (-1.84) (W) 15" 15 inch HDPE (-2.67) (S)	-4.99	
S-20B	263+16.91'	11.00' R	Curb Inlet TYPE D	Standard	3.75	15" 15 inch HDPE (-2.67) (N)	-4.66	

REVISIONS		
DATE	BY	DESCRIPTION

EOR
CARLOS M. HERDOCIA, PE.
#47660

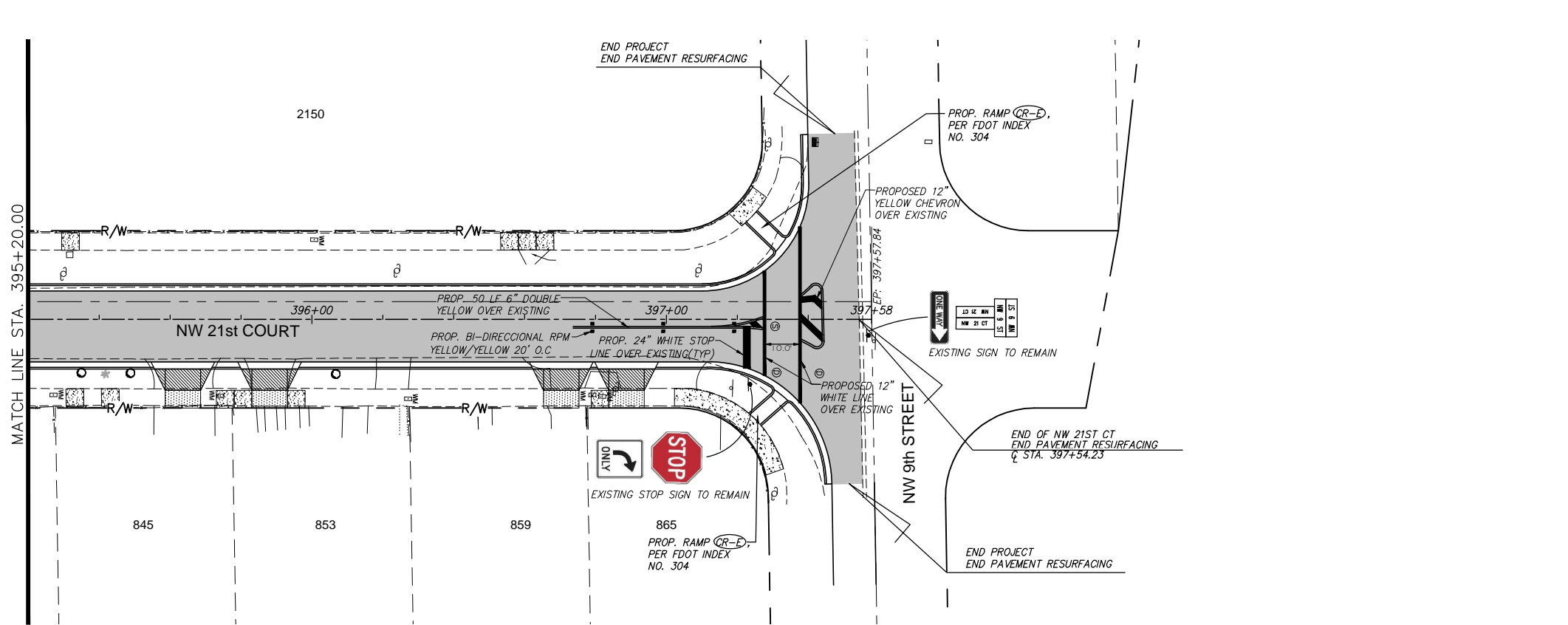
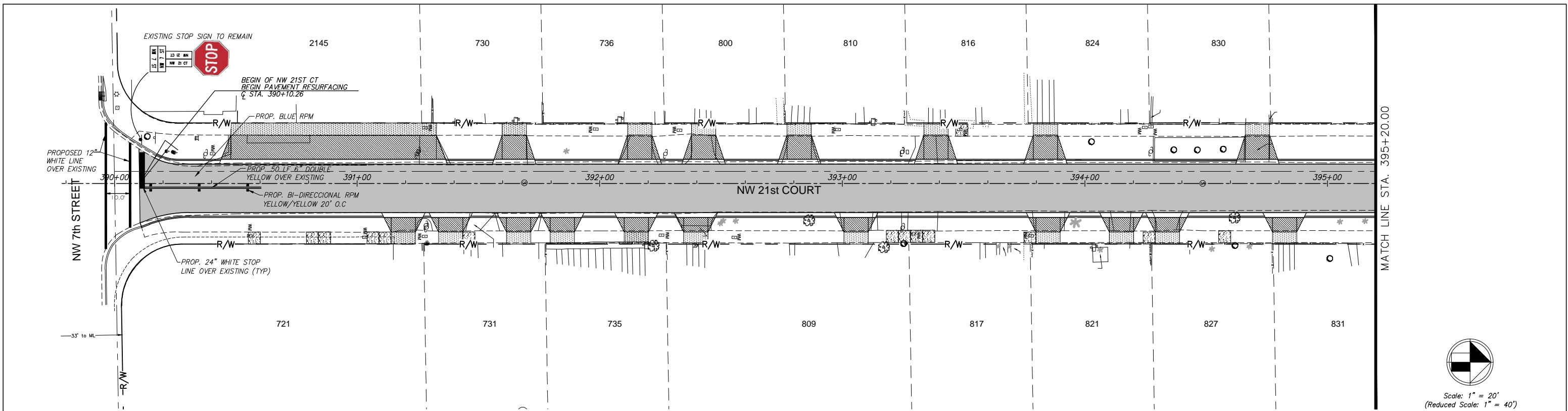


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PROJECT NAME
CITY OF MIAMI
GROVE PARK ROADWAY & DRAINAGE
IMPROVEMENTS
PROJECT NO.
B-40347



SUMMARY OF DRAINAGE
STRUCTURES
SHEET NO.
C-22



LEGEND

- Property Line
- Right of Way Line
- Center Line
- Exist. Type "F" Gutter
- Exist. Edge of Pavement
- Exist. Storm Drainage
- Exist. Chain Link Fence
- Monument Line
- Existing Catch Basin
- Exist. Light Pole/PullBox
- Exist. Storm MH
- Exist. Fire Hydrant
- Exist. Trees To Remain
- Existing San. MH
- Existing Water Valve
- Prop. Type "F" Curb & Gutter
- 4" Conc. Sidewalk Reconstruction
- 1" Milling and 1" Type S-III Resurfacing
- Conc. Driveway Reconstruction
- PROFILE**
- Exist. Left EOP
- Exist. Right EOP
- Exist. Center Line (Profile)

REVISIONS		
DATE	BY	DESCRIPTION

EOR

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#47660

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CAPITAL IMPROVEMENTS PROGRAM

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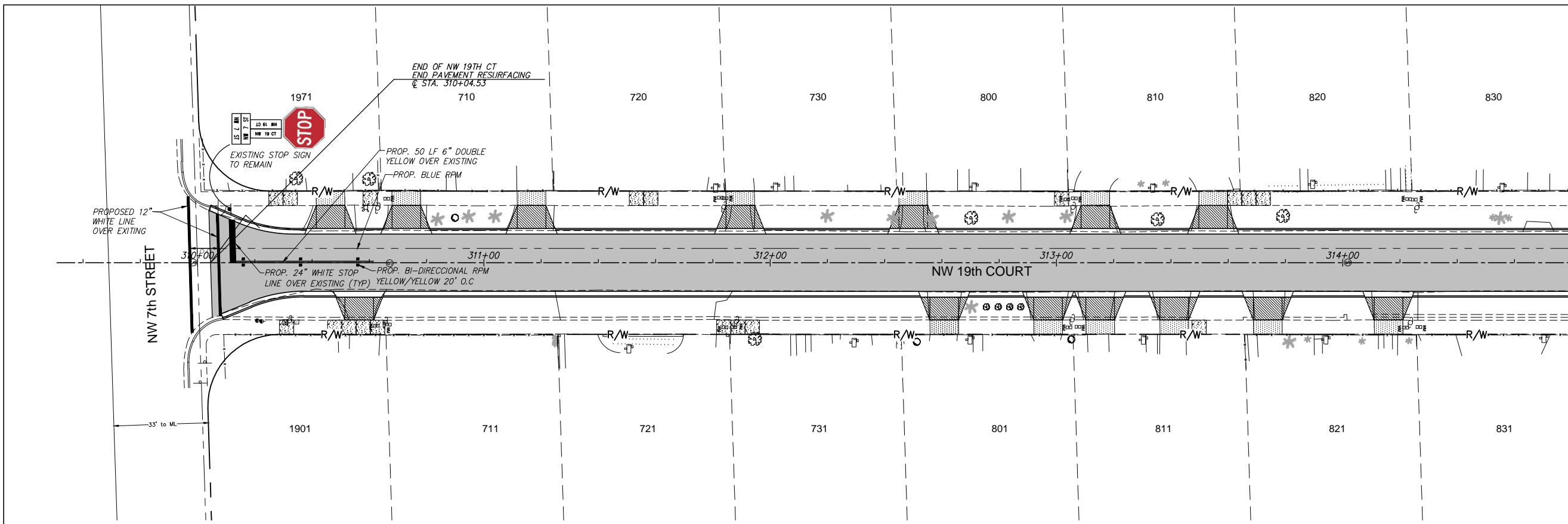
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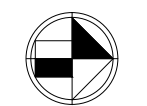
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33134
Tel. 305-445-2900
Fax. 305-445-3344
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PAVEMENT MARKING
NW 21ST CT

SHEET NO.
C-23

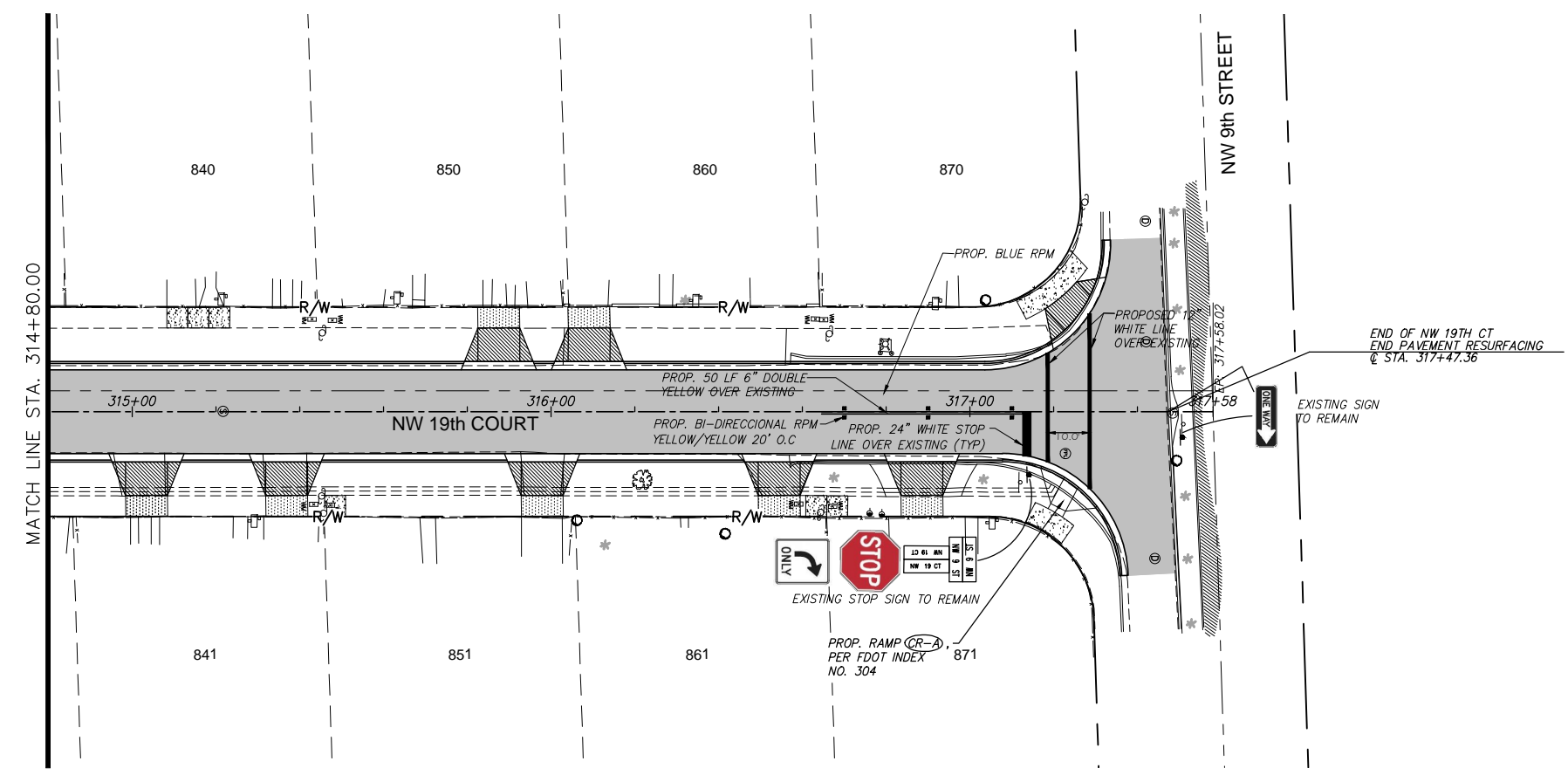


MATCH LINE STA. 314+80.00



Scale: 1" = 20'
(Reduced Scale: 1" = 40')

LEGEND	
	Property Line
	Right of Way Line
	Center Line
	Exist. Type "F" Gutter
	Exist. Edge of Pavement
	Exist. Storm Drainage
	Exist. Chain Link Fence
	Monument Line
	Existing Catch Basin
	Exist. Light Pole/PullBox
	Exist. Storm MH
	Exist. Fire Hydrant
	Exist. Trees To Remain
	Existing San. MH
	Existing Water Valve
	Prop. Type "F" Curb & Gutter
	4" Conc. Sidewalk Reconstruction
	1" Milling and 1" Type S-III Resurfacing
	Conc. Driveway Reconstruction
PROFILE	
	Exist. Left EOP
	Exist. Right EOP
	Exist. @ (Profile)



REVISIONS		
DATE	BY	DESCRIPTION

EOR

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#47660

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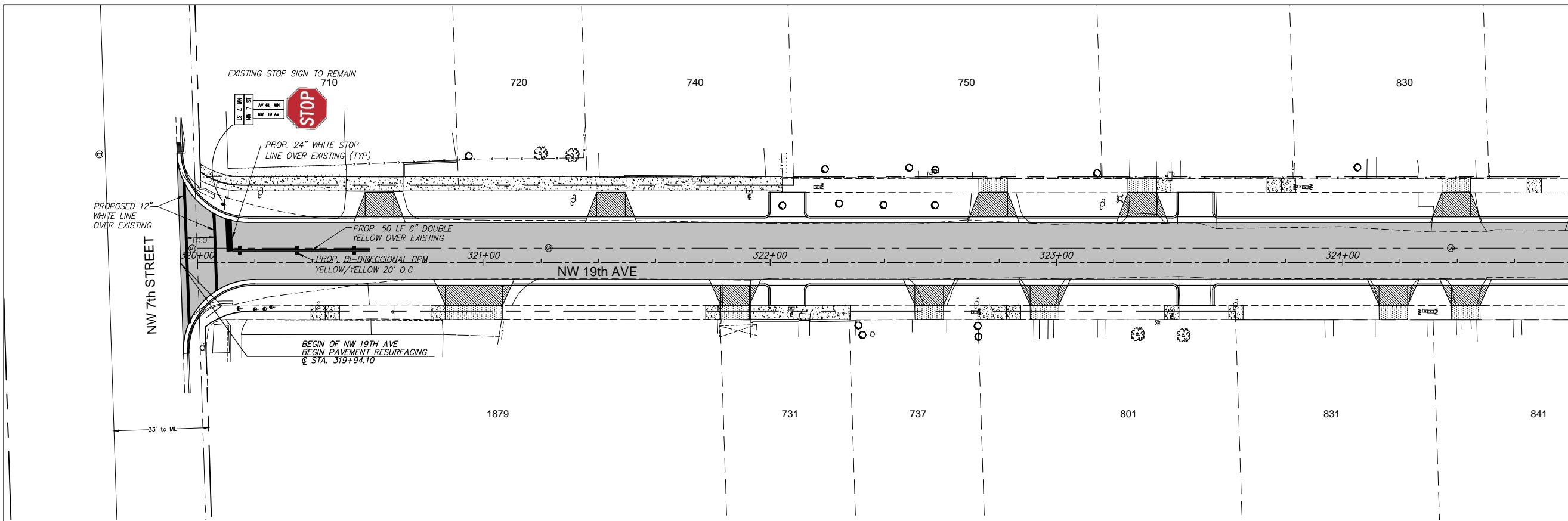
CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM

PROJECT NAME CITY OF MIAMI GROVE PARK ROADWAY & DRAINAGE IMPROVEMENTS	PROJECT No. B-40347
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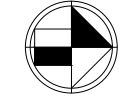
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PAVEMENT MARKING
NW 19TH CT

SHEET NO.
C-24

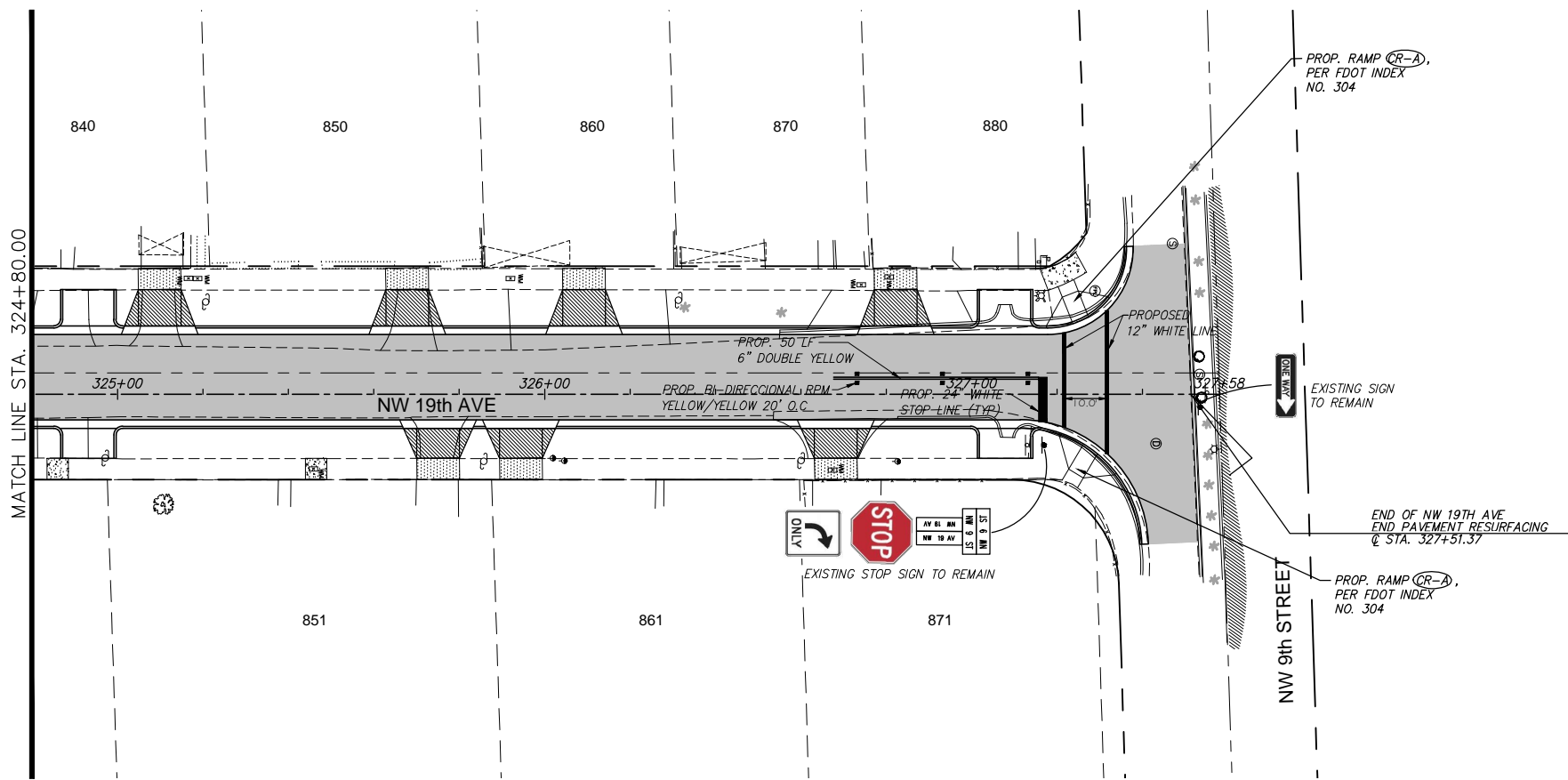


MATCH LINE STA. 324+80.00



Scale: 1" = 20'
(Reduced Scale: 1" = 40')

LEGEND	
	Property Line
	Right of Way Line
	Center Line
	Exist. Type "F" Gutter
	Exist. Edge of Pavement
	Exist. Storm Drainage
	Exist. Chain Link Fence
	Monument Line
	Existing Catch Basin
	Exist. Light Pole/PullBox
	Exist. Storm MH
	Exist. Fire Hydrant
	Exist. Trees To Remain
	Existing San. MH
	Existing Water Valve
	Prop. Type "F" Curb & Gutter
	4" Conc. Sidewalk Reconstruction
	1" Milling and 1" Type S-III Resurfacing
	Conc. Driveway Reconstruction
PROFILE	
	Exist. Left EOP
	Exist. Right EOP
	Exist. Q (Profile)



MATCH LINE STA. 324+80.00

REVISIONS		
DATE	BY	DESCRIPTION

EOR

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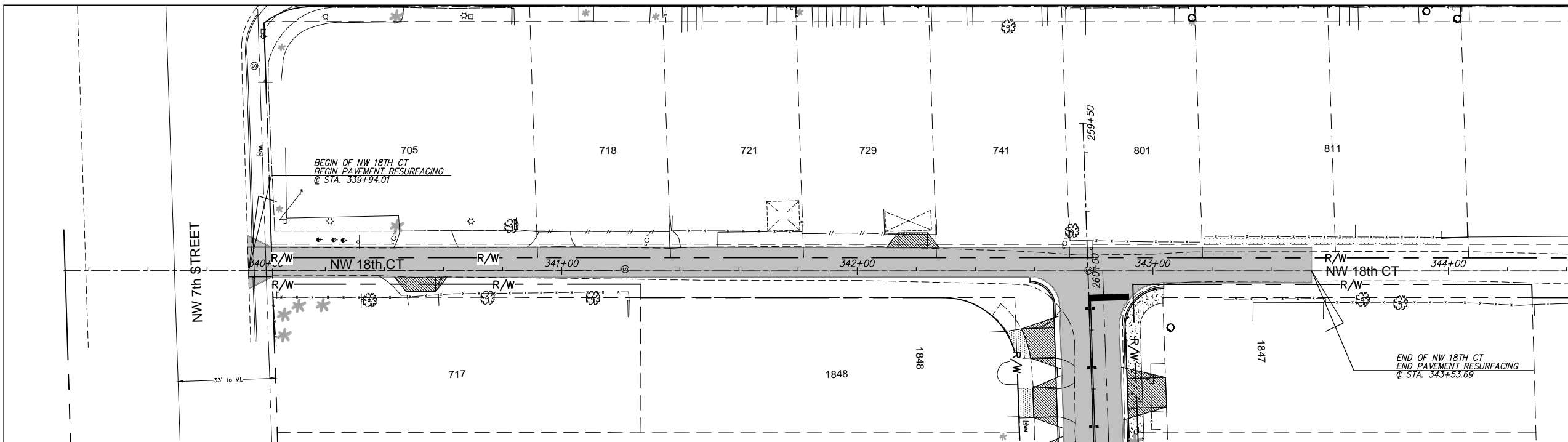
CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM

PROJECT NAME CITY OF MIAMI GROVE PARK ROADWAY & DRAINAGE IMPROVEMENTS	PROJECT No. B-40347
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33134
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Fax. 305-445-3344
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PAVEMENT MARKING
NW 19TH AVE

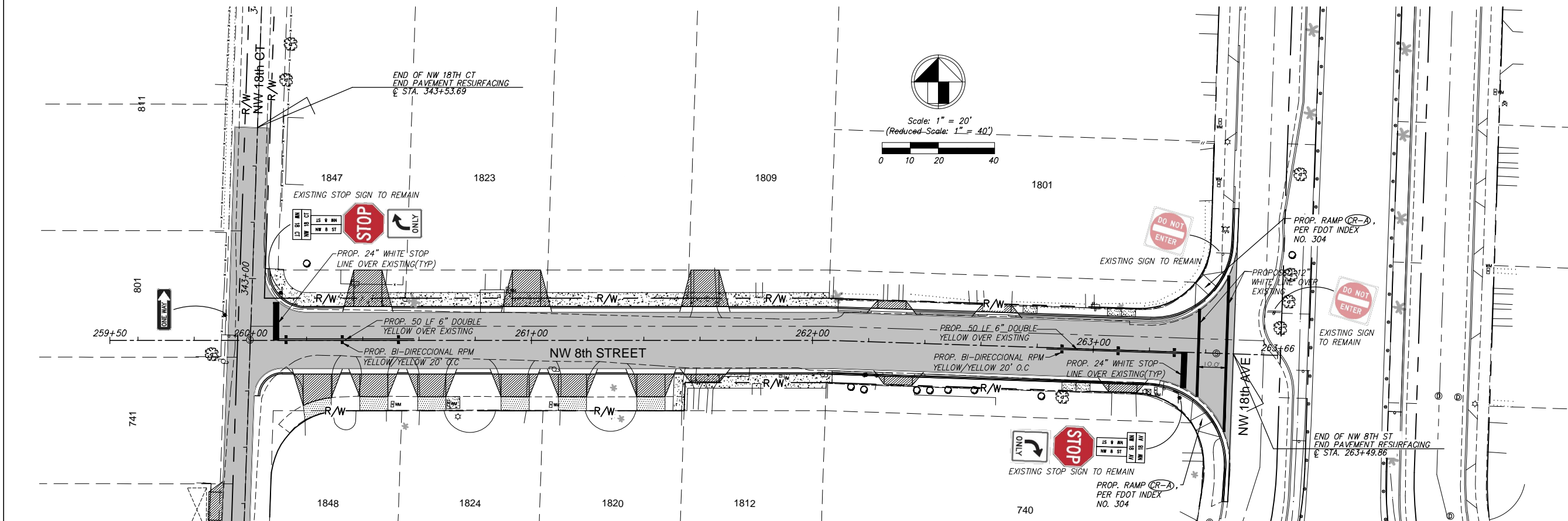
SHEET NO.
C-25



Scale: 1" = 20'
(Reduced Scale: 1" = 40')

LEGEND

- Property Line
- Right of Way Line
- Center Line
- Exist. Type "F" Gutter
- Exist. Edge of Pavement
- Exist. Storm Drainage
- Exist. Chain Link Fence
- Monument Line
- Existing Catch Basin
- Exist. Light Pole/PullBox
- Exist. Storm MH
- Exist. Fire Hydrant
- Exist. Trees To Remain
- Existing San. MH
- Existing Water Valve
- Prop. Type "F" Curb & Gutter
- 4" Conc. Sidewalk Reconstruction
- 1" Milling and 1" Type S-III Resurfacing
- Conc. Driveway Reconstruction
- PROFILE**
- Exist. Left EOP
- Exist. Right EOP
- Exist. E (Profile)



Scale: 1" = 20'
(Reduced Scale: 1" = 40')

REVISIONS		
DATE	BY	DESCRIPTION

EOR

CARLOS M. HERDOCIA, PE.
#47660

CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM
444 S.W. 2ND AVENUE, 8TH FLOOR
MIAMI, FLORIDA 33130
(305) 416-1213 FAX (305) 416-1253

CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM

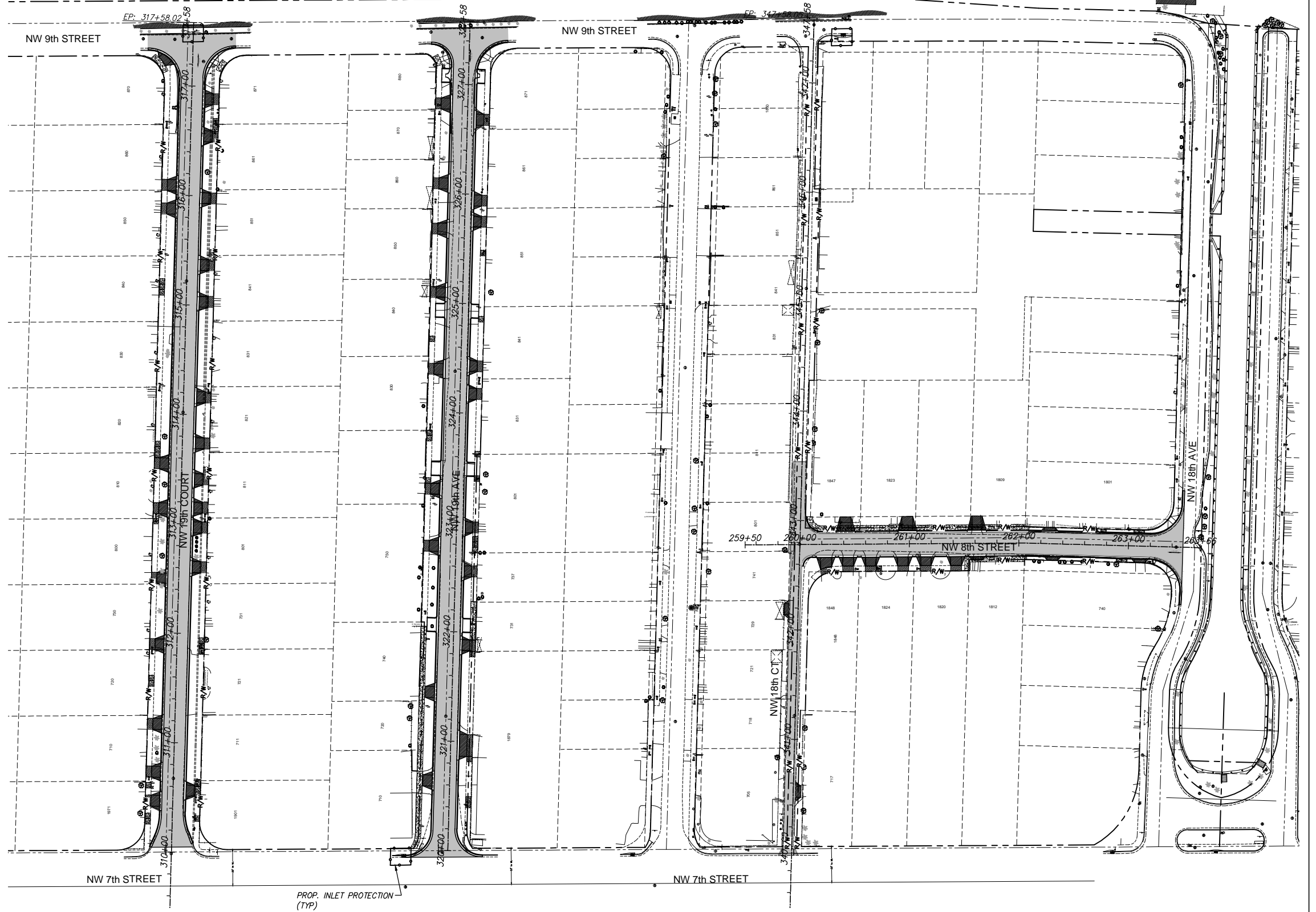
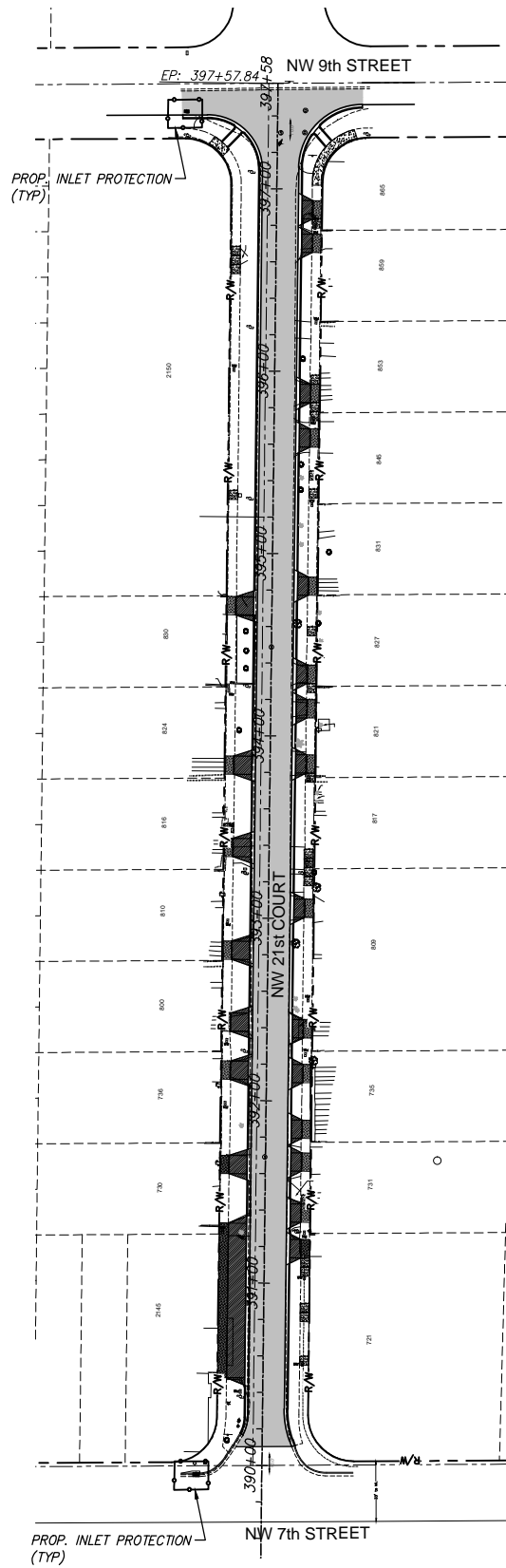
PROJECT NAME CITY OF MIAMI GROVE PARK ROADWAY & DRAINAGE IMPROVEMENTS	PROJECT No. B-40347
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PAVEMENT MARKING
NW 18TH CT & NW 8 ST

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C-26



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DATE	BY	DESCRIPTION

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CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM

PROJECT NAME
CITY OF MIAMI
GROVE PARK ROADWAY & DRAINAGE
IMPROVEMENTS

PROJECT No.

B-40347



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SWPPP

SHEET NO.

C-27

2.C.4. FERTILIZERS AND PESTICIDES:

THE APPLICATION AND HANDLING OF HERBICIDES AND PESTICIDES SHALL BE IN COMPLIANCE WITH THE MANUFACTURES-RECOMMENDED METHOD AND IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION FOR ROADS AND BRIDGE CONSTRUCTION. HERBICIDES AND PESTICIDES SHALL BE ONSITE IN THEIR ORIGINAL CONTAINERS WITH PRODUCT LABEL INTACT.

2.C.5 TOXIC/HAZARDOUS MATERIAL HANDLING

CONTRACTOR SHALL PROVIDE EQUIPMENT NECESSARY TO CONTAIN AND CLEAN UP SPILLS OF HAZARDOUS MATERIAL AFTER THEY OCCUR. SPILLED MATERIAL AND THE EQUIPMENT USED TO CLEAN UP THE SPILL SHALL NOT COME IN CONTACT WITH SURFACE WATERS OR BE INTRODUCED INTO STORM WATER. DISPOSAL OF SURPLUS PRODUCT WILL BE DONE ACCORDING TO MANUFACTURE RECOMMENDED METHOD.

CONTRACTOR SHALL PROVIDE A PROJECT SPECIFIC HAZARDOUS MATERIAL SPILL CONTROL PLAN TO ADDRESS THE HANDLING OF HYDROCARBON AND HAZARDOUS MATERIALS. PETROLEUM PRODUCTS SHALL BE STORED IN COVERED AREAS WITH SECONDARY CONTAINMENT SURROUNDING CONTAINER.

TOXIC/HAZARDOUS MATERIAL EXPOSED DURING CONSTRUCTION ACTIVITIES SHALL BE HANDLED AS PER THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

2.D STATE AND LOCAL PERMITS TO BE APPLIED FOR:

- * NPDES FROM THE CITY OF MIAMI PUBLIC WORKS DEPARTMENT

3.0 MAINTENANCE

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR. IF A CONTROL NEEDS REPAIR OR REPLACEMENT, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT AND RECORDED ON THE INSPECTION FORMS. MAINTENANCE SHALL CONTINUE UNTIL ALL ERODIBLE SOILS WITHIN THE CONTRIBUTING AREA HAVE BEEN STABILIZED. AT THIS POINT, THE CONTRACTOR SHALL REMOVE EXCESS SILT AT THE CONTROLS AND REMOVE THE TEMPORARY DEVICES. THE MAINTENANCE PLAN SHALL AT MINIMUM, COMPLY WITH THE FOLLOWING:

- * INLET PROTECTION (ROCK BAGS): THE CONTRACTOR SHALL INSPECT THE PROTECTED INLETS EVERY TWO WEEKS AND REPLACE THE ROCK BAGS IF NECESSARY OR WHEN EXCESSIVE POUNDING OCCURS; ELIMINATE BREACHES IN THE PROTECTION.
- * TURBIDITY BARRIER: MAINTAIN AS PER SECTION 104 OF THE SPECIFICATIONS.
- * STREET SWEEPING: DAILY CONTROL AND DUST PREVENTION WITH WATER TRUCK.
- * GRASSED AREAS: NEWLY SODDED AREAS AND ADJACENT AREAS DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE REPAIRED AND MAINTAINED, WATERING AND MOWING AS NEEDED OR REQUIRED IN THE FDOT STANDARD SECIFICATIONS.

4.0 INSPECTIONS

QUALIFIED PERSONNEL SHALL INSPECT ALL THE CONTROL FEATURES AT LEAST ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER. TO COMPLY THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES AND RECORD THE DAILY RAINFALL. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY WEEK. THE CONTRACTOR SHALL ALSO ENSURE THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE FOLLOWING ITEMS WILL BE INSPECTED:

- * POINTS OF DISCHARGE TO SURFACE WATERS OR WETLANDS: INSPECT TO DETERMINE IF CONTROLS ARE EFFECTIVE IN PREVENTING OR MINIMIZING THE DISCHARGE OF POLLUTANTS.
- * POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM SEWER SYSTEMS (INLETS, ETC.): INSPECT TO DETERMINE IF CONTROLS ARE EFFECTIVE IN PREVENTING OR MINIMIZING THE DISCHARGE OF POLLUTANTS.

* DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED: INSPECT FOR EVIDENCE OF POTENTIAL FOR DISCHARGING POLLUTANTS INTO SURFACE WATERS OR STORMWATER SYSTEMS.

* AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION: INSPECT FOR EVIDENCE OF POTENTIAL FOR DISCHARGING POLLUTANTS INTO SURFACE WATERS OR STORMWATER SYSTEMS.

* STRUCTURAL CONTROLS: INSPECT FOR PROPER INSTALLATION AND OPERATION.

* STORMWATER MANAGEMENT SYSTEMS: INSPECT FOR PROPER OPERATION, EVIDENCE OF FLOODING DUE TO SEDIMENTATION OR CONTROLS REQUIRING MAINTENANCE.

* LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE: INSPECT FOR EVIDENCE OF OFFSITE TRACKING.

THE CONTRACTOR SHALL INITIATE WITHIN 24 HOURS OF INSPECTION THAT INDICATES ITEMS ARE NOT IN GOOD WORKING ORDER BASED ON THE RESULTS OF THE INSPECTION, ALL MAINTENANCE OPERATIONS NEEDED TO ASSURE PROPER OPERATION OF ALL CONTROLS, BMPS OR MEASURES IDENTIFIED IN THIS SWPPP SHALL BE DONE IN A TIMELY MANNER, BUT NO LATER THAN 7 CALENDAR DAYS FOLLOWING THE INSPECTION. IF NEEDED, POLLUTION PREVENTION CONTROLS SHALL BE REVISED AS APPROPRIATE IF FAILURES IN THE PLAN ARE NOTED; THESE REVISIONS SHALL BE IMPLEMENTED NO LATER THAN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.

A REPORT (USE FDOT FORM 650-040-03) SUMMARIZING THE SCOPE OF THE INSPECTION SHALL INCLUDE THE INSPECTOR'S NAME, QUALIFICATIONS, DATE, RAINFALL DATA, OBSERVATIONS RELATING TO THE SWPPP, AND ACTIONS TAKEN SINCE THE LAST REPORT. THE REPORT SHALL IDENTIFY ALL INCIDENTS OF NON-COMPLIANCE.

IF THERE ARE NO INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE SWPPP AND THE PERMIT. THE REPORT SHALL BE SIGNED AND FILED AS REQUIRED BY THE GENERIC PERMIT.

THE CONTRACTOR SHALL MAINTAIN A FILE CONTAINING THE CURRENT SWPPP, NOI SUBMITTAL, CERTIFICATIONS AND ALL THE SIGNED INSPECTION REPORTS; THE NOTICE OF INTENT SUBMITTED AS REQUIRED BY CHAPTER 62-621, FAC, MUST BE POSTED AT THE SITE.

5.0 NON-STORM WATER DISCHARGES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORM WATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES) SUCH AS THOSE LISTED BELOW. THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION FROM THESE NON-STORM WATER DISCHARGES.

IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR IS TO CEASE OPERATIONS IN THAT AREA. THE CONTRACTOR SHALL CONTACT THE CITY OF MIAMI PROJECT MANAGER.

A DEWATERING PERMIT IS REQUIRED TO REMOVED GROUNDWATER FROM THE CONSTRUCTION SITE.



- * CULVERT INSTALLATION METHODS
- * SLURRY DISPOSAL
- * DUST CONTROL
- * EQUIPMENT WASHOUT
- * PIPE DESILTING ACTIVITIES
- * IRRIGATION

6.0 CONTRACTOR SUBMITTAL:

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DEVELOP AN EROSION CONTROL PLAN THAT PROVIDES A DETAILED DESCRIPTION OF ALL EROSION AND SEDIMENT CONTROLS, BMP'S AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE FOR EACH ACTIVITY IDENTIFIED IN SECTION 1.B SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TIMEFRAMES IN WHICH THE CONTROLS WILL BE IMPLEMENTED, MAINTAINED AND REMOVED. THIS INFORMATION SHALL BE CONSIDERED IN COMPLIANCE WITH THE FDEP GENERIC PERMIT FOR STORM WATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION SITES.

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE FOLLOWING ITEMS ARE ON SITE:

1. COPY OF THE SWPPP WITH THE ORIGINAL CERTIFICATION SIGNATURES.
2. COPY OF THE CONTRACTOR'S EROSION CONTROL PLAN.
3. HAZARDOUS SPILL CONTROL PLAN WITH GUIDELINES ON CONTACTING THE 24-HOUR EMERGENCY RESPONSE PROGRAM FOR HAZARDOUS MATERIAL SPILLS. THIS SHALL INCLUDE COPIES OF DISCHARGE NOTIFICATIONS THAT HAVE OCCURRED WITHIN THE PROJECT LIMITS.
4. COMPLETE INSPECTION FORMS.

REVISIONS			EOR	 CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM 444 S.W. 2ND AVENUE, 8TH FLOOR MIAMI, FLORIDA 33130 (305) 416-1213 FAX (305) 416-1253	CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM		 901 Ponce de Leon Blvd, Suite 900 Coral Gables, Florida 33134 Tel. 305-445-2900 Fax. 305-445-3344 www.stantec.com	SWPPP	SHEET NO.
DATE	BY	DESCRIPTION			PROJECT NAME	PROJECT No.			
			CARLOS M. HERDOCIA, PE. #47660	GROVE PARK ROADWAY & DRAINAGE IMPROVEMENTS	B-40347			C-28	

5. WHERE USED IN CONJUNCTION WITH SILT FENCE, BALES SHALL BE PLACED ON THE UPSTREAM SIDE OF THE FENCE.

THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE DESIGN STANDARDS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. THE FIRST SHEET OF THE CONSTRUCTION PLANS KEY SHEET CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS: THIS NARRATIVE DESCRIPTION, THE DOCUMENTS REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN REQUIRED BY SPECIFICATION SECTION 104, AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

- A. THE FOLLOWING NARRATIVE AND REFERENCED DOCUMENTS,
- B. THE CONTRACTOR'S APPROVED EROSION AND SEDIMENT CONTROL PLAN REQUIRED BY SPECIFICATION SECTION 104, CITY OF MIAMI PW BULLETIN No. 25 AND CITY ORDINANCE No. 13081,
- C. REPORT OF INSPECTIONS MADE DURING CONSTRUCTION.

1.0 SITE DESCRIPTION

1.A. NATURE OF CONSTRUCTION ACTIVITY:

THE PLAN DELINEATED IN THIS SWPPP IS FOR DRAINAGE IMPROVEMENTS, MILLING AND RESURFACING, PAVEMENT MARKING AND SIDEWALK REPAIRS.

1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

IN THE SECTION 104 EROSION & SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A DETAIL SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS THE EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.

INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE CLEARING AND GRUBBING OTHER AREAS OF THE SITE.

1. CLEARING AND GRUBBING.
2. DRAINAGE IMPROVEMENTS
3. CURB AND GUTTER, SIDEWALK, DRIVEWAY IMPROVEMENTS
4. ASPHALT MILLING AND RESURFACING

1.C. AREA ESTIMATES

TOTAL PROJECT AREA: 2.81 ACRES
TOTAL AREA TO BE DISTURBED: 2.81 ACRES

1.D. RUNOFF DATA

RUNOFF COEFFICIENTS:

BEFORE CONSTRUCTION: 0.2
DURING CONSTRUCTION: 0.2
AFTER CONSTRUCTION: 0.2

1.E. SITE MAP

THE SHEETS CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLANS REFERENCED IN THIS SECTION ARE IDENTIFIED ON THE KEY SHEET OF THE PLANS.

- * DRAINAGE PATTERNS: THE DRAINAGE BASIN DIVIDES AND FLOW DIRECTIONS ARE SHOWN ON THE DRAINAGE MAP (INCLUDED IN THE DRAINAGE REPORT). THE FLOW ARROWS REPRESENT THE FLOW DIRECTION.
- * APPROXIMATE SLOPES: THE PLANS MAINTAINS A 2% TYPICAL CROSS SLOPE AS INDICATED ON THE TYPICAL SECTION.
- * AREAS OF SOIL DISTURBANCE: THE LIMITS OF SOIL DISTURBANCE ARE SHOWN ON THE TYPICAL SECTION SHEETS AND PLANS SHEETS.
- * AREAS NOT TO BE DISTURBED: ENTIRE PROJECT AREA TO BE DISTURBED.
- * LOCATIONS OF TEMPORARY CONTROLS: ROCK BAGS WILL BE LOCATED AROUND ALL EXISTING AND PROPOSED INLETS; TURBIDITY BARRIERS WILL BE LOCATED AT ANY BODIES OF WATER AFFECTED BY THIS PROJECT.

* LOCATIONS OF PERMANENT CONTROLS: PERMANENT FEATURES ARE SHOWN ON THE CONSTRUCTION PLANS, WHICH GENERALLY CONSIST OF SOD, ASPHALT, CONCRETE, AND DRAINAGE STRUCTURES.

* SURFACE WATERS: NONE

* WETLAND AREAS: NONE

* AREAS TO BE STABILIZED: NONE

2.0 CONTROLS

2.A. EROSION AND SEDIMENT CONTROLS:

IN THE SECTION 104 EROSION AND SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES BASED ON THE CONTRACTOR'S TRAFFIC CONTROL PLAN. THE FOLLOWING RECOMMENDED GUIDELINES ARE BASED ON THE TRAFFIC CONTROL PLAN (TCP) OUTLINED IN THESE CONSTRUCTION PLANS. THE CONTRACTOR MAY CHOOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN THE SECTION 104 EROSION CONTROL PLAN, SUBJECT TO APPROVAL OF THE ENGINEER. AS WORK PROGRESSES, THE CONTRACTOR SHALL MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATION, CHANGES IN CONSTRUCTION ACTIVITIES AND THE NEED FOR BETTER PRACTICES TO LIMIT THE TRANSPORT OF SEDIMENT FROM THE CONSTRUCTION AREA, THE CONTRACTOR SHALL MINIMIZE THE SOIL AREAS EXPOSED AT ANY GIVEN TIME AND SHALL STABILIZE AREAS THAT WILL REMAIN IDLE FOR MORE THAN 7 DAYS. THE CONTRACTOR SHALL UTILIZE GRADING TECHNIQUES TO DIRECT RUNOFF TO AREAS WITH THE PROPER EROSION CONTROL FEATURES INSTALLED AND AWAY FROM OPEN WATER OR OTHER SENSITIVE AREAS ADJACENT TO THE WORK SITE.

2.A.1 STABILIZATION PRACTICES:

IN THE SECTION 104 EROSION & SEDIMENT CONTROL PLANS, THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 14 DAYS. IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED THE STABILIZATION PRACTICES PROPOSED BY THE CONTRACTOR SHALL INCLUDE AT LEAST THE FOLLOWING:

PERMANENT:

- * ASPHALT OR CONCRETE SURFACE.
- * SOD IN ACCORDANCE WITH ORDINANCE 12636.

2.A.2 STRUCTURAL PRACTICES:

IN THE SECTION 104 EROSION & SEDIMENT CONTROL PLANS, THE CONTRACTOR SHALL DESCRIBE THE STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. ALL SEDIMENTS CONTROLS SHALL BE IN PLACE BEFORE ANY SOIL DISTURBING ACTIVITY UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES PROPOSED BY THE CONTRACTOR SHALL INCLUDE AT LEAST THE FOLLOWING:

TEMPORARY:

- * ROCK BAGS IN ACCORDANCE WITH DESIGN STANDARD 102 AND SPECIFICATION SECTION 104.
- * TURBIDITY BARRIER IN ACCORDANCE WITH DESIGN STANDARD 103 AND SPECIFICATION SECTION 104

PERMANENT:

- * CURB AND GUTTER
- * DRAINAGE STRUCTURES
- * SOD

2.B. STORM WATER MANAGEMENT:

DRAINAGE PATTERNS AND DIVIDES ARE INCLUDED ON THE DRAINAGE MAP INCLUDED IN THE DRAINAGE REPORT. STORM WATER IS CAPTURE BY PROPOSED INLETS AND RETAIN IN INFILTRATION TRENCHES

2.C. OTHER CONTROLS:

THE CONTRACTOR SHALL PRACTICE GOOD HOUSEKEEPING BY INSTITUTING A CLEAN, ORDERLY CONSTRUCTION SITE; THE FOLLOWING CONTROLS SHALL BE IMPLEMENTED TO FURTHER REDUCE POLLUTION AT THE PROJECT SITE:

2.C.1. DISCHARGE OF MATERIAL TO SURFACE WATERS:

NO CONSTRUCTION MATERIAL SHALL BE DISCHARGE TO WATERS OF THE STATE UNLESS AUTHORIZED BY SECTION 40. PERMIT AND/OR CONSTRUCTION DEBRIS SHALL BE DISPOSED OF IN AN APPROVED UPLAND LOCATION. BUILDING MATERIAL SHALL NOT BE DISPOSED OF IN WETLANDS OR BURIED ON-SITE. IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIAL. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

* PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT LIMITS DURING CONSTRUCTION ACTIVITIES.

* DISPOSE OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.

* DISPOSE OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS OR WETLANDS.

2.C.2. OFF-SITE VEHICLE TRACKING AND DUST CONTROL:

THE CONTRACTOR SHALL TAKE MEASURES TO INSURE THE CLEANUP OF THE SEDIMENTS THAT HAVE BEEN TRACKED BY VEHICLES OR HAVE BEEN TRANSPORTED BY WIND OR STORM WATER ABOUT THE SITE OR ONTO NEARBY ROADWAYS.

STABILIZED CONSTRUCTION ENTRANCES AND CONSTRUCTION ROADS, IF APPROPRIATE, SHALL BE IMPLEMENTED IN ORDER TO REDUCE OFF-SITE TRACKING. LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPULIN. EXCESS DIRT ON THE ROAD SHALL BE REMOVED DAILY. PROVIDE A STREET SWEEPING PLAN TO THE CITY INSPECTOR.

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING UNLESS OTHERWISE APPROVED BY THE ENGINEER.

* COVER LOADED HAUL TRUCKS WITH TARPULINS.

* REMOVE EXCESS DIRT FROM ROADS DAILY.



* STABILIZE CONSTRUCTION ENTRANCES ACCORDING TO DESIGN STANDARDS 106. (CONSTRUCTION ENTRANCES ARE ALREADY STABILIZED FOR THIS PROJECT)

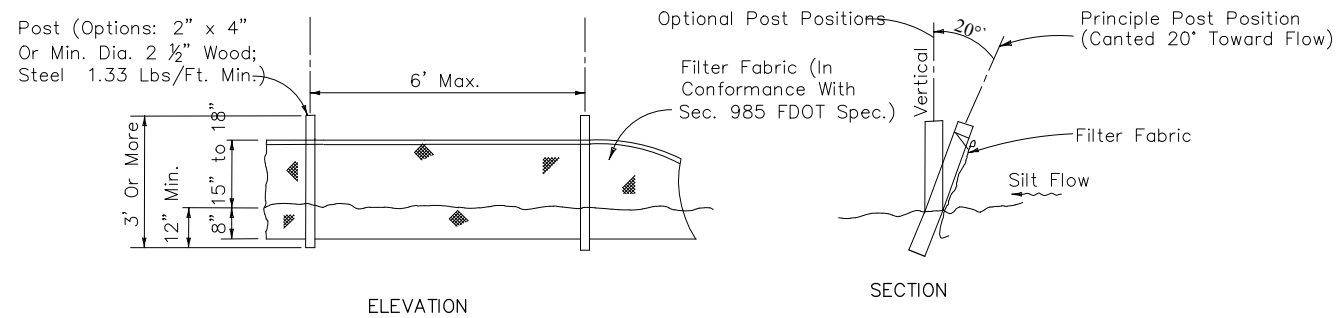
2.C.3. WASTE DISPOSAL, SANITARY SEWER OR SEPTIC TANK REGULATIONS:

THE CONTRACTOR SHALL DEMONSTRATE THE PROPER DISPOSAL OF ALL CONSTRUCTION WASTE GENERATED WITHIN THE PROJECT LIMITS. WASTE MAY INCLUDE, BUT NOT LIMITED TO, VEGETATION FROM CLEANING AND GRUBBING ACTIVITIES, PACKAGING MATERIAL, SCRAP BUILDING MATERIAL, LITTER FROM TRAVELING PUBLIC, SEWAGE FROM SANITARY FACILITIES, HERBICIDES AND PESTICIDES AND THEIR CONTAINERS, AND HYDROCARBON PRODUCTS SHALL BE DESIGNATE A WASTE COLLECTION AREA ON SITE AND DELINEATE THE AREA ON THE SWPPP SITE MAP.

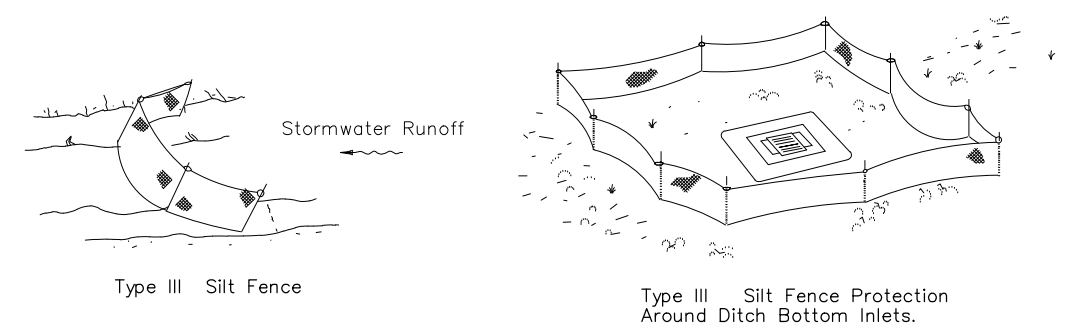
SANITARY SEPTIC FACILITIES SHALL BE PROVIDED AND MAINTAINED IN A NEAT AND SANITARY CONDITION, FOR THE USE OF THE CONTRACTOR'S EMPLOYEES AS NECESSARY TO COMPLY WITH THE REQUIREMENTS AND REGULATIONS OF THE STATE AND LOCAL BOARDS OF HEALTH. A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY THE STATE REGULATIONS WILL COLLECT ALL SANITARY WASTE FROM PORTABLE UNITS.

THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT LIMITS DURING CONSTRUCTION ACTIVITIES. CONTRACTOR WILL PROVIDE AN ADEQUATE NUMBER OF LITTER CONTAINERS WITH THE LIDS AT THIS STAGING STOCKPILE AND FIELD OFFICE AREAS. WASTE COLLECTION WILL BE SCHEDULED SO THAT CONTAINERS ARE EMPTIED PRIOR TO OVERFLOW. SPILLED LITTER CONTAINERS WILL BE CLEANED UP IMMEDIATELY.

<p style="text-align: center;"><i>REVISIONS</i></p> <table border="1"> <thead> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			DATE	BY	DESCRIPTION				<p>EOR</p> <p>CARLOS M. HERDOCIA, PE. #47660</p>	 <p>CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM 444 S.W. 2ND AVENUE, 8TH FLOOR MIAMI, FLORIDA 33130 (305) 416-1213 FAX (305) 416-1253</p>	<p style="text-align: center;">CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM</p> <table border="1"> <thead> <tr> <th>PROJECT NAME</th> <th>PROJECT No.</th> </tr> </thead> <tbody> <tr> <td>CITY OF MIAMI GROVE PARK ROADWAY & DRAINAGE IMPROVEMENTS</td> <td>B-40347</td> </tr> </tbody> </table>	PROJECT NAME	PROJECT No.	CITY OF MIAMI GROVE PARK ROADWAY & DRAINAGE IMPROVEMENTS	B-40347	 <p>901 Ponce de Leon Blvd, Suite 900 Coral Gables, Florida 33134 Tel. 305-445-2900 Fax. 305-445-3344 www.stantec.com</p>	<p style="text-align: center;">SWPPP</p>	<p>SHEET NO.</p> <p style="text-align: center;">C-29</p>
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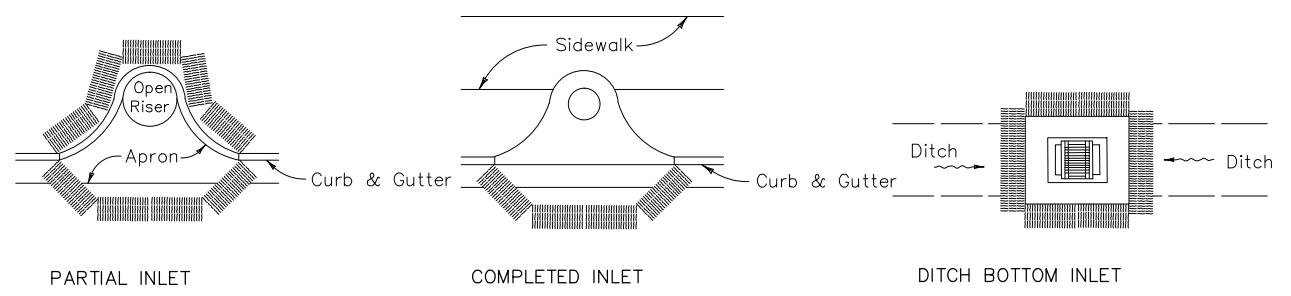
SILT FENCE DETAIL
N.T.S.



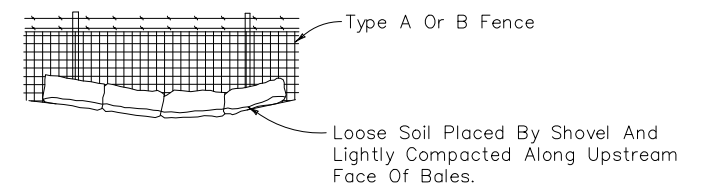
Notes:

1. Spacing for Type III Fence to be in accordance with Chart 1, Sheet 1 of 3 and ditch installations at drainage structures Sheet 2 of 3 per FDOT Standard Index 102.
2. Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

SILT FENCE APPLICATIONS
N.T.S.



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES
N.T.S.



BALES BACKED BY FENCE
N.T.S.

STORM WATER POLLUTION PREVENTION PRACTICES:
(FOR PROJECTS OF 0.5 ACRE OR MORE – CITY ORDINANCE No. 13081)

1. TREE PROTECTION AND PRUNING SHALL BE ACCOMPLISHED AS DETAILED IN SPECIAL PROVISIONS, THE CONSTRUCTION PLANS, AND OR PER TREE ORDINANCE 12636.
2. THE STORM WATER POLLUTION PREVENTION PLAN, SWPPP, SUBMITTED TO PUBLIC WORKS, SHALL DESCRIBE IN DETAIL HOW THE CONSTRUCTION EFFORT WILL BE PHASED WITH REGARDS TO MINIMIZING EROSION PROBLEMS BY THE USE OF TEMPORARY AND PERMANENT EROSION CONTROL MEASURES, FOR THE VARIOUS SEQUENCES OF CONSTRUCTION OPERATIONS. ANY MODIFICATIONS MUST BE APPROVED BY THE CITY OF MIAMI – NPDES SECTION, DEPARTMENT OF PUBLIC WORKS.
3. ENVIRONMENTAL CONTROL FEATURES AS PROVIDED IN THE SWPPP, ARE TO BE INSTALLED AT ALL AREAS OF EXCAVATION OR FILL FOR DRAINAGE SYSTEM, OR STRUCTURE CONSTRUCTION PRIOR TO SUCH EXCAVATION OR FILL. INLET ENTRANCES ARE ALSO TO BE PROTECTED FROM SILTATION AS DETAILED ON SHEET 2 OF 4 OF MISC. 35-89-6.
4. ALL ENVIRONMENTAL CONTROL FEATURES ARE TO BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT IN ACCORDANCE WITH N.P.D.E.S. REQUIREMENTS. THE CONTRACTOR MUST INSURE THAT ALL EROSION CONTROL FEATURES FUNCTION PROPERLY AT ALL TIMES.
5. ALL EROSION AND MATERIAL DEPOSITS MUST BE CONTAINED WITHIN THE PROJECT LIMITS.
6. ANY DAMAGED OR INEFFECTIVE ROCK BAGS ARE TO BE REPLACED WITH NEW ONES. THE LOCATION OF ROCK BAGS INSTALLATION IS AS MENTIONED IN THE SWPPP PLANS. THE PROJECT ENGINEER MAY SPECIFY OTHER AREAS AS NECESSARY.
7. DITCH BOTTOM INLETS SHALL BE PROTECTED FROM SEDIMENT INTAKE UNTIL PROJECT IS COMPLETE. ELEVATION OF GROUND OUTSIDE INLET TOP SHALL NOT BE HIGHER THAN INLET TOP. ROCK BAGS SHALL BE INSTALLED AROUND INLET TOP. COMPLETED INLETS IN PAVED AREAS SHALL ALSO BE PROTECTED WITH ROCK BAGS TO PREVENT SEDIMENT INTAKE.
8. CURB INLETS ALSO SHALL BE PROTECTED FROM SEDIMENT INTAKE UNTIL THE PROJECT IS COMPLETE. ALL EXPOSED SLOPED MATERIAL ADJACENT TO INLET, SHALL BE COVERED WITH EROSION CONTROL MATTING WITH OUTER LIMITS PROTECTED BY ROCK BAGS.
9. STOCKPILED MATERIAL SHALL NOT BE LEFT IN EROSION PRONE AREAS UNLESS PROTECTED BY COVER OR ROCK BAGS.
10. INSPECTION OF EROSION CONTROL MEASURES AND CONDITION OF ADJACENT PROPERTIES, SHALL BE PERFORMED DAILY BY THE CONTRACTOR'S REPRESENTATIVE AND THE PROJECT ENGINEER. DEFICIENCIES SHALL BE NOTED AND CORRECTED.
11. ANY OFFSITE SEDIMENT DISCHARGE TO A MUNICIPAL SEPARATE STORM WATER SYSTEM ARISING FROM THE CONTRACTOR'S ACTIVITIES IS NOT ALLOWED. REFER TO PUBLIC WORKS DEPARTMENT BULLETIN No. 25 and City Ordinance 13081.
12. THE USE OF SANITARY SEWERS, FRENCH DRAINS, COVER DITCHES AND/OR ROCK DRAINS FOR THE DISPOSAL OF WASTEWATER IS EXPRESSLY PROHIBITED. REFER TO PUBLIC WORKS DEPARTMENT BULLETIN No. 25 and City Ordinance 13081.

* NPDES - NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM Authorized by NPDES permit FLS 000002. BMP - Best Management Practice.

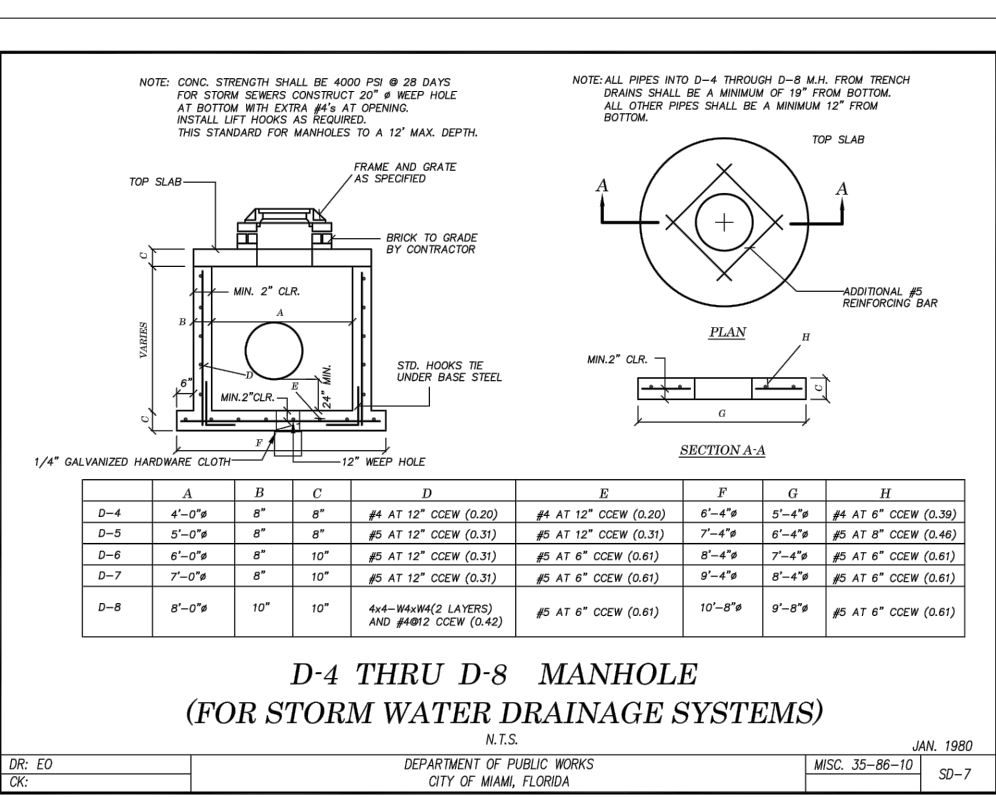
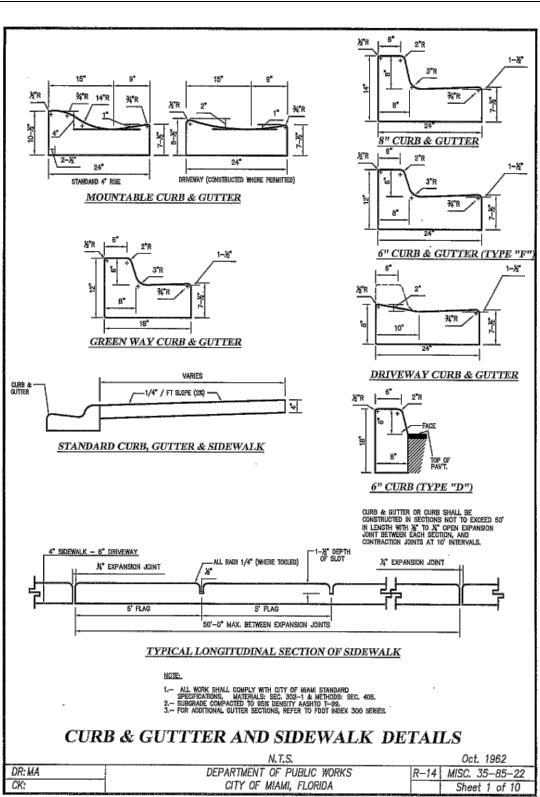
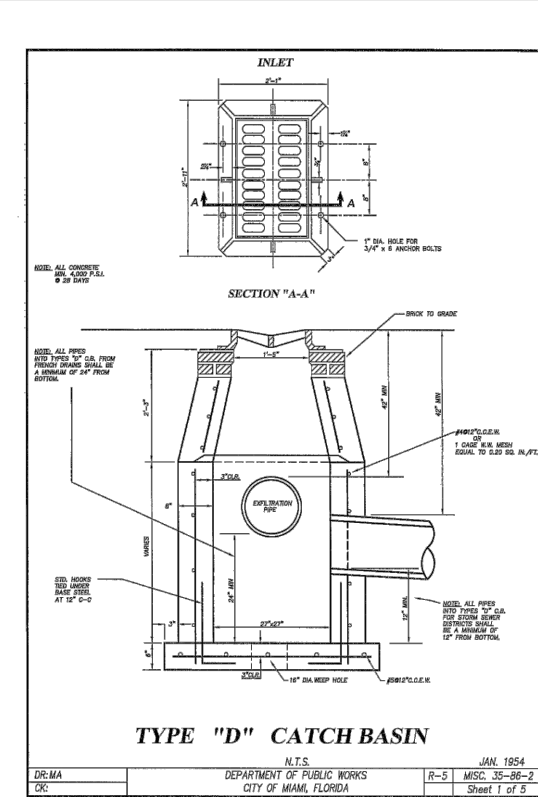
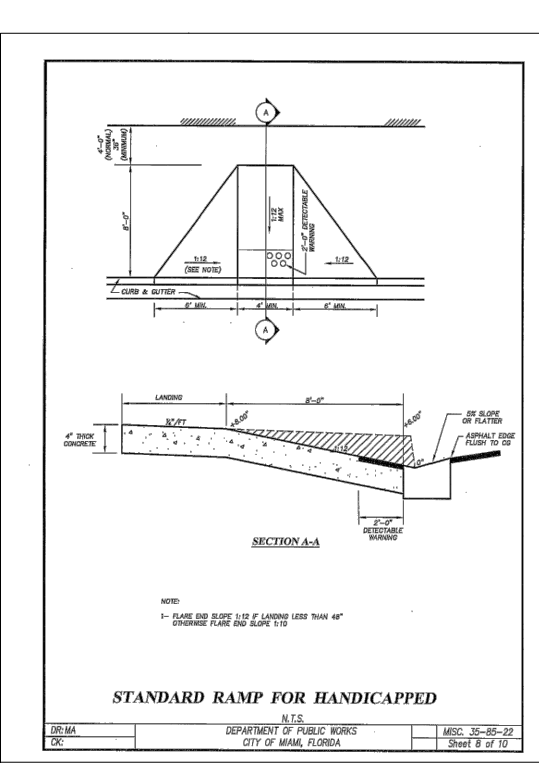
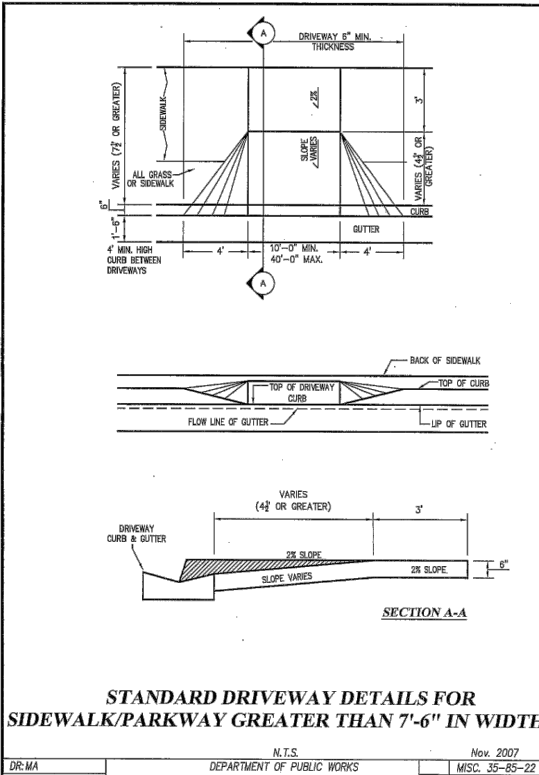
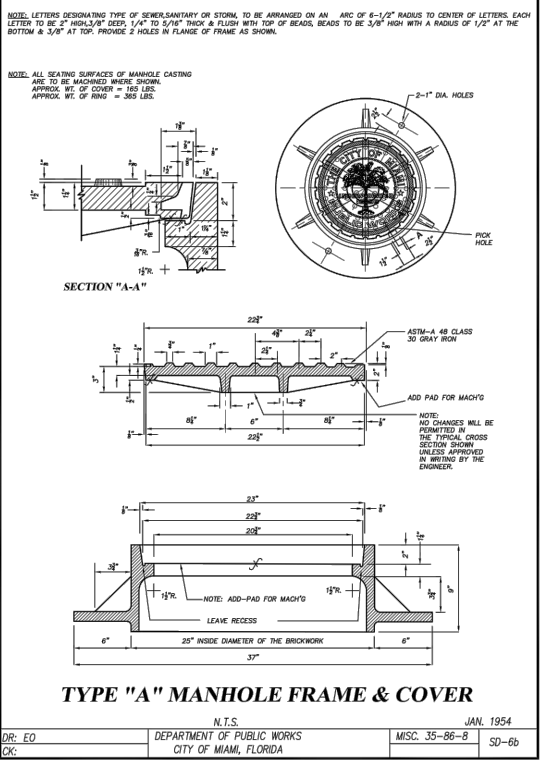
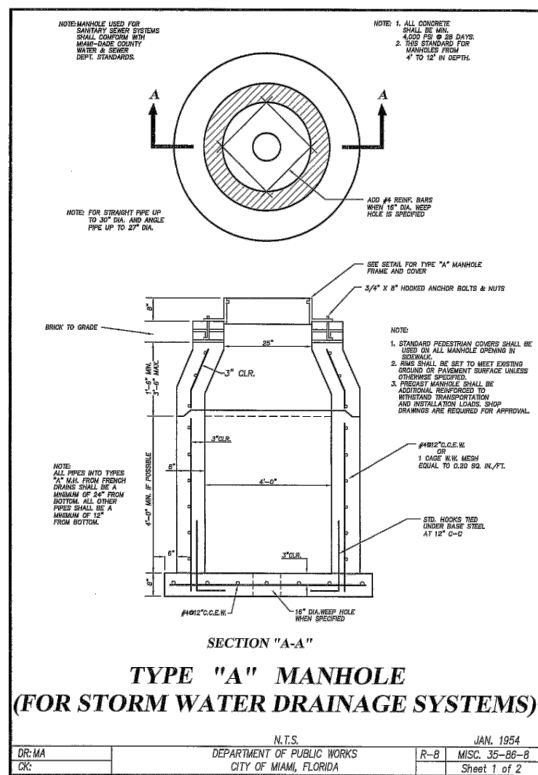
STORM WATER POLLUTION PREVENTION PLAN (SWPPP) CHECKLIST

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| <p>A. SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS:</p> <ol style="list-style-type: none"> 1. CLEAR & GRUBBING 2. INSTALL DRAINAGE STRUCTURES 3. STABILIZATION 4. BASE PREPARATION 5. ASPHALT APPLICATION 6. PLACEMENT OF ROCK BAGS AROUND INLETS 7. PLACEMENT OF ROCK BAGS AROUND MANHOLES 8. APPLICATION OF FRICTION COURSE A.C. 9. INSTALLATION OF STREET SIGNING 10. PAVEMENT MARKING 11. REMOVE ROCK BAGS 12. CLEAN ALL CONSTRUCTION DEBRIS FROM CONSTRUCTION SITE | <p>B. GENERAL</p> <ol style="list-style-type: none"> 1. APPROVED STATE, LOCAL PLANS OR STORM WATER PERMITS. 2. ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES. 3. ALL CONTROLS SHALL BE INSPECTED DAILY. 4. APPLY FERTILIZERS AND PESTICIDES ACCORDING TO STANDARD SPECIFICATIONS, DESIGN AND SPECIAL PROVISIONS. 5. REPORT NON-STORM WATER DISCHARGE (INCLUDING SPILL) (305) 416-1200. 6. VISIT www.dep.state.fl.us/water/stormwater/npdes/ |
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NOTES FOR SYNTHETIC BALES OR BALE TYPE BARRIERS

1. TYPE I AND II SYNTHETIC BARRIER SHOULD BE SPACED IN ACCORDANCE WITH CHART 1, SHEET 1 PER INDEX 102.
2. BALES SHALL BE ANCHORED WITH 2-1" X 2" (OR 1" DIA.) X 4' WOOD STAKES. STAKES OF OTHER MATERIAL OR SHAPE PROVIDING EQUIVALENT STRENGTH MAY BE USED IF APPROVED BY THE ENGINEER. STAKES OTHER THAN WOOD SHALL BE REMOVED UPON COMPLETION OF THE PROJECT.
3. RAILS AND POSTS SHALL BE 2" X 4" WOOD. OTHER MATERIALS PROVIDING EQUIVALENT STRENGTH MAY BE USED IF APPROVED BY THE ENGINEER.
4. ADJACENT BALES SHALL BE BUTTED FIRMLY TOGETHER.

<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			DATE	BY	DESCRIPTION				<p>EOR</p> <p>CARLOS M. HERDOCIA, PE. #47660</p>	<p>CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM 444 S.W. 2ND AVENUE, 8TH FLOOR MIAMI, FLORIDA 33130 (305) 416-1213 FAX (305) 416-1253</p>	<p>CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM</p> <table border="1"> <tr> <td>PROJECT NAME</td> <td>PROJECT No.</td> </tr> <tr> <td>CITY OF MIAMI GROVE PARK ROADWAY & DRAINAGE IMPROVEMENTS</td> <td>B-40347</td> </tr> </table>	PROJECT NAME	PROJECT No.	CITY OF MIAMI GROVE PARK ROADWAY & DRAINAGE IMPROVEMENTS	B-40347	<p>901 Ponce de Leon Blvd. Suite 900 Coral Gables, Florida 33134 Tel. 305-445-2900 Fax. 305-445-3344 www.stantec.com</p>	<p>SWPPP</p>	<p>SHEET NO.</p> <p>C-30</p>
DATE	BY	DESCRIPTION																
PROJECT NAME	PROJECT No.																	
CITY OF MIAMI GROVE PARK ROADWAY & DRAINAGE IMPROVEMENTS	B-40347																	



NOTE:
1-CURB & GUTTER INLET SHALL BE USF 5129-6176 HINGED GRATE AND HOOD INLET.

2-VALLEY GUTTER INLET SHALL BE USF 5112-6143.

3-MANHOLE COVER SHALL BE USF 310-GR WITH CITY OF MIAMI LOGO

NOTE:
INLET SUMP TO BE 24" MINIMUM

REVISIONS		
DATE	BY	DESCRIPTION

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ER
CARLOS M. HERDOCIA, PE.
#47660



CITY OF MIAMI
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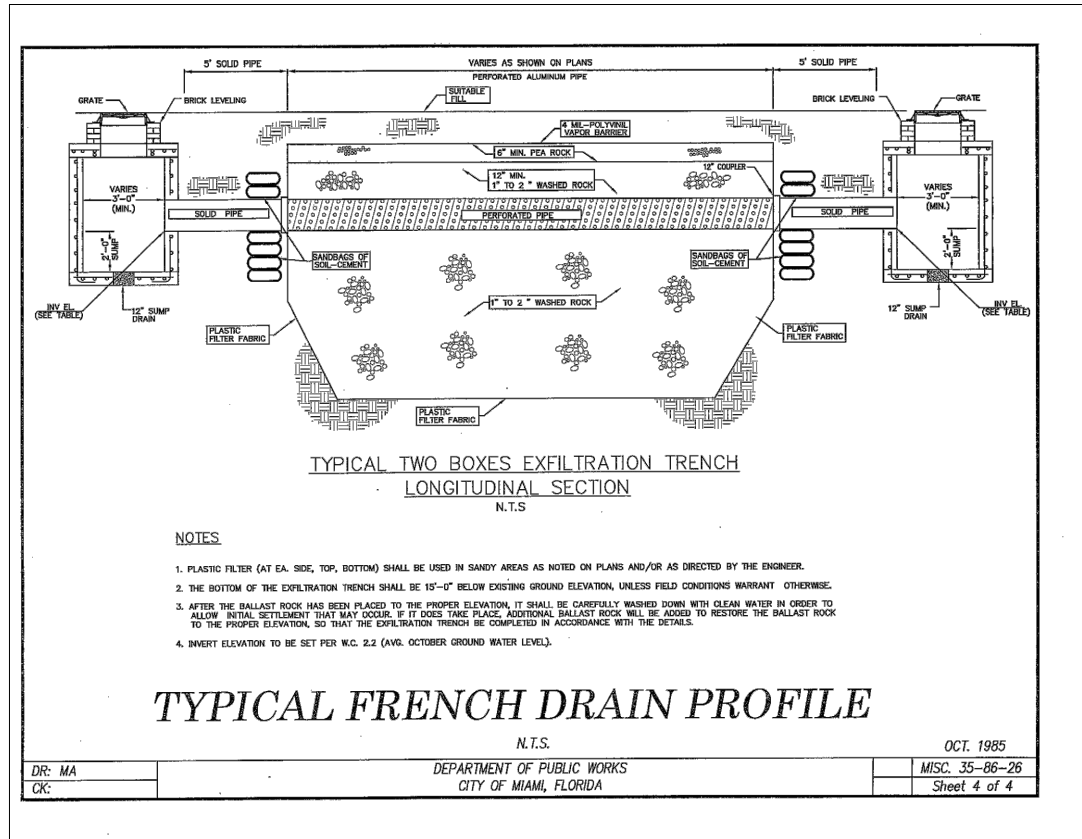
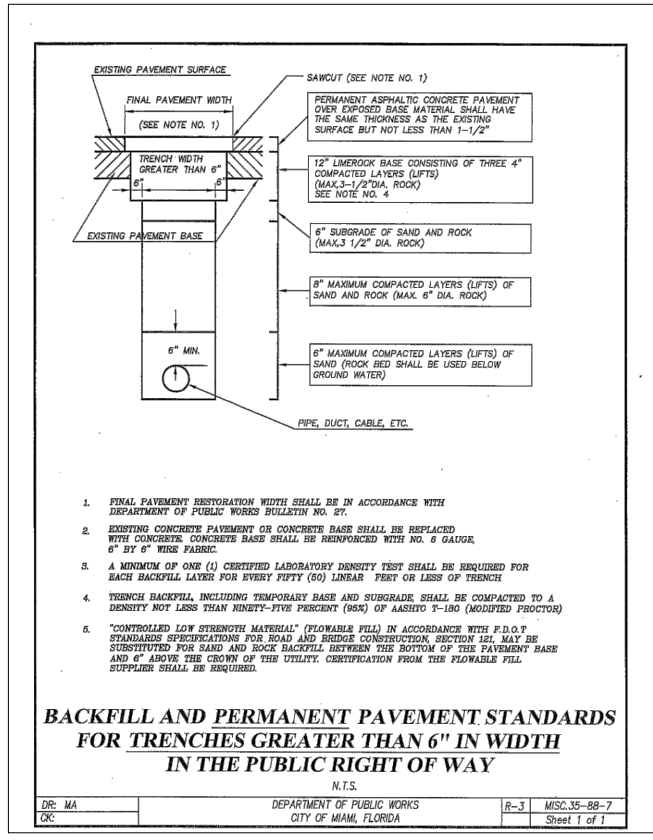
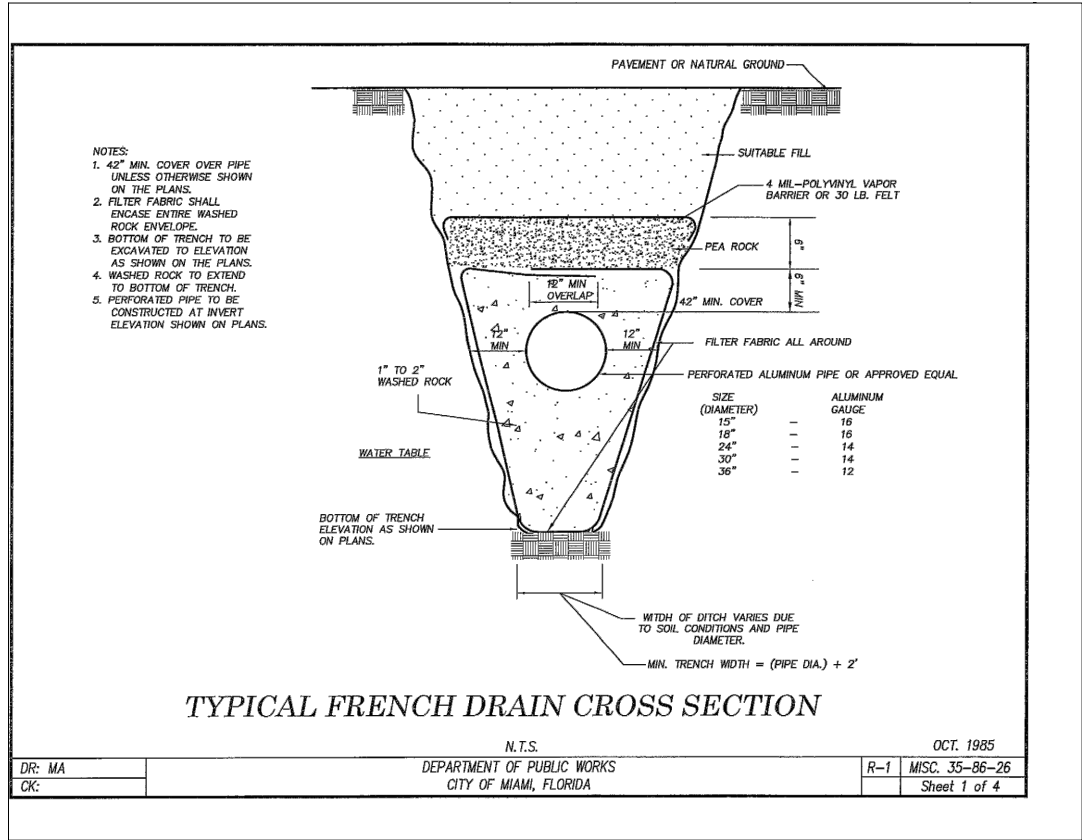
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GROVE PARK ROADWAY & DRAINAGE IMPROVEMENTS



PROJECT No.
B-40347

DRAINAGE DETAILS

SHEET NO.
C-31



REVISIONS		
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CITY OF MIAMI
 CAPITAL IMPROVEMENTS PROGRAM

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CITY OF MIAMI
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DRAINAGE DETAILS

SHEET NO. C-32