

CONTRACT PLANS COMPONENTS

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS

INDEX OF ROADWAY PLANS

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CITY COMMISSIONERS

MAYOR
JOE KYLES

VICE-MAYOR
BETTY BARNARD

CITY COMMISSIONER
ESTHER BERRY

CITY COMMISSIONER
JOHN WILSON

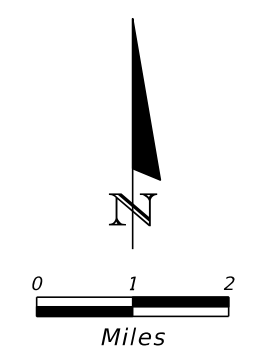
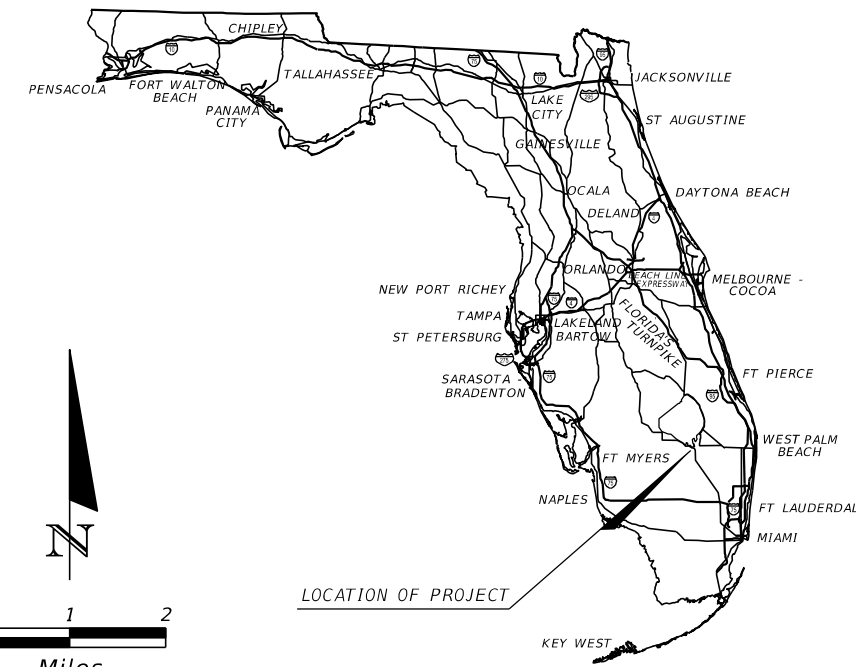
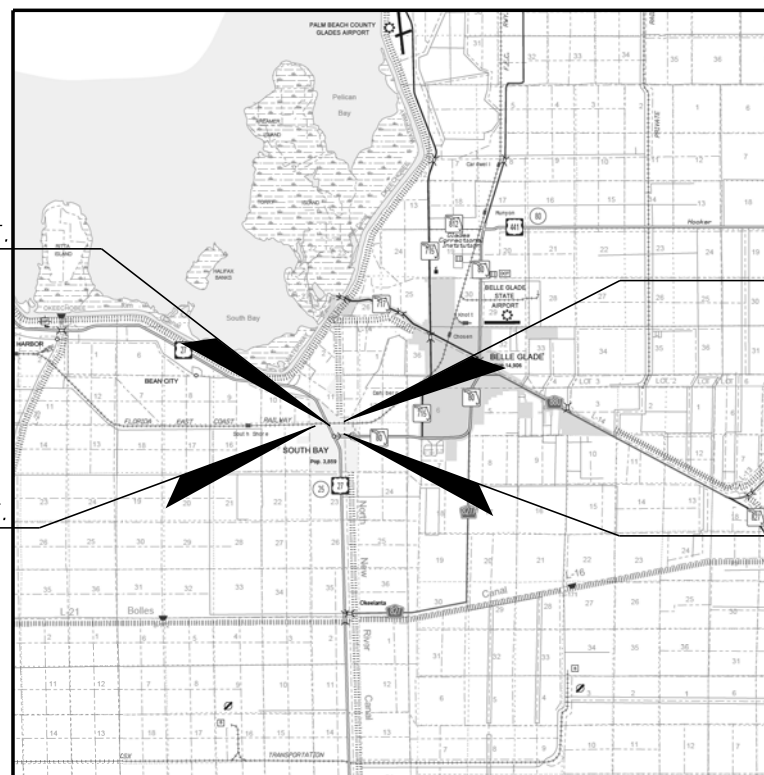
CITY COMMISSIONER
TARANZA MCKELVIN

CITY OF SOUTH BAY

CONTRACT PLANS

PROJECT (1) NW 2ND STREET
FROM SR 27 TO NW 10TH AVENUE
AND
PROJECT (2) NW 1ST AVENUE
FROM SR 80/PALM BEACH RD. TO FEC
PALM BEACH COUNTY

BID NO. 2021-01



END PROJECT NW 2ND ST.
60 FT WEST OF US 27

END PROJECT NW 1ST AVE
FEC RAILWAY

BEGIN PROJECT NW 2ND ST.
NW 10TH AVE

BEGIN PROJECT NW 1ST AVE
SR 80/ PALM BEACH RD.

SHOP DRAWINGS TO BE
SUBMITTED TO:

CAP ENGINEERING, INC.
343 ALMERIA AVENUE
CORAL GABLES FL 33134
PHONE (305) 448-1712

ROADWAY PLANS
PROVIDED BY:

CAP ENGINEERING, INC.
343 ALMERIA AVENUE
CORAL GABLES, FL
CERTIFICATE OF AUTHORIZATION: 27051

MAY 11, 2021

PREPARED FOR
CITY OF SOUTH BAY



CITY HALL
335 SW 2ND AVE
SOUTH BAY, FL 33493

GOVERNING DESIGN STANDARDS:

Florida Department of Transportation (FDOT), Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (Florida Green Book) July 2019 Edition.

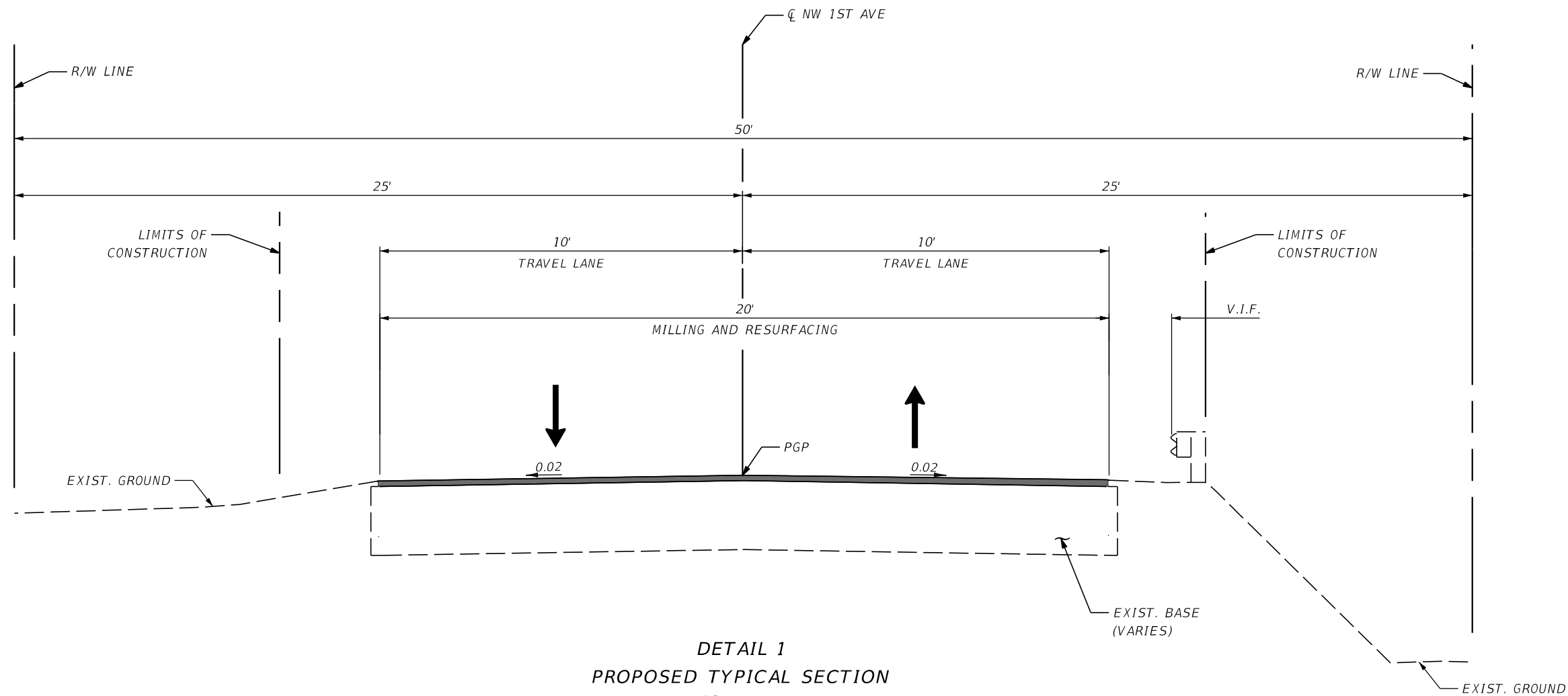
Florida Department of Transportation, FY2020-21 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs)

Standards Plans for Road Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

2019 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents.

FISCAL YEAR	SHEET NO.
21	1

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DETAIL 1
PROPOSED TYPICAL SECTION
NW 1ST AVENUE
SR 80/ PALM BEACH RD. TO FEC

MILLING

MILL EXISTING ASPHALT
 PAVEMENT FOR DEPTH (2")

RESURFACING

TYPE SP-9.5 STRUCTURAL COURSE (TRAFFIC C) (2"),

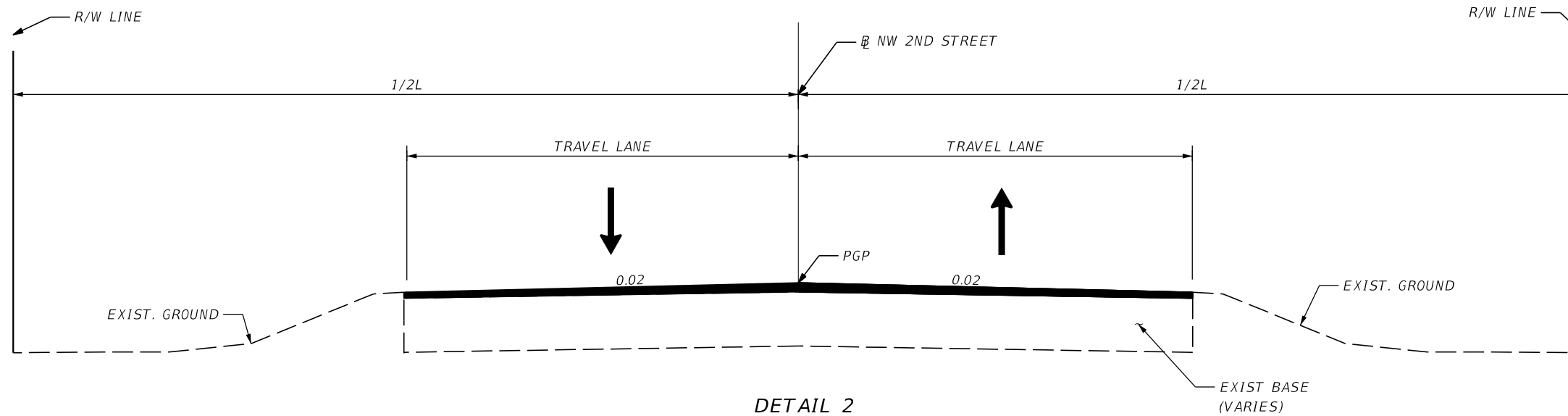
NOTE:

1. THE CONTRACTOR SHALL SAW CUT ALL EXISTING DRIVEWAYS PRIOR TO MILLING TO ENSURE A STRAIGHT AND CLEAN JOINT IS CREATED AFTER RESURFACING.
2. SEDIMENT BARRIER SHALL BE INSTALLED ALONG THE FULL LENGTH OF THE PROJECT ON BOTH SIDE OF THE ROADWAY.

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DATE	DESCRIPTION	DATE	DESCRIPTION	CITY OF SOUTH BAY			SHEET NO.
				ROAD NO.	COUNTY	FINANCIAL PROJECT ID	TYPICAL SECTION-1
				1ST AVE 2ND ST	PALM BEACH		

CAP ENGINEERING, INC.
 343 ALMERIA AVE
 CORAL GABLES, FL 33134
 CERTIFICATE OF AUTHORIZATION NO. 27051



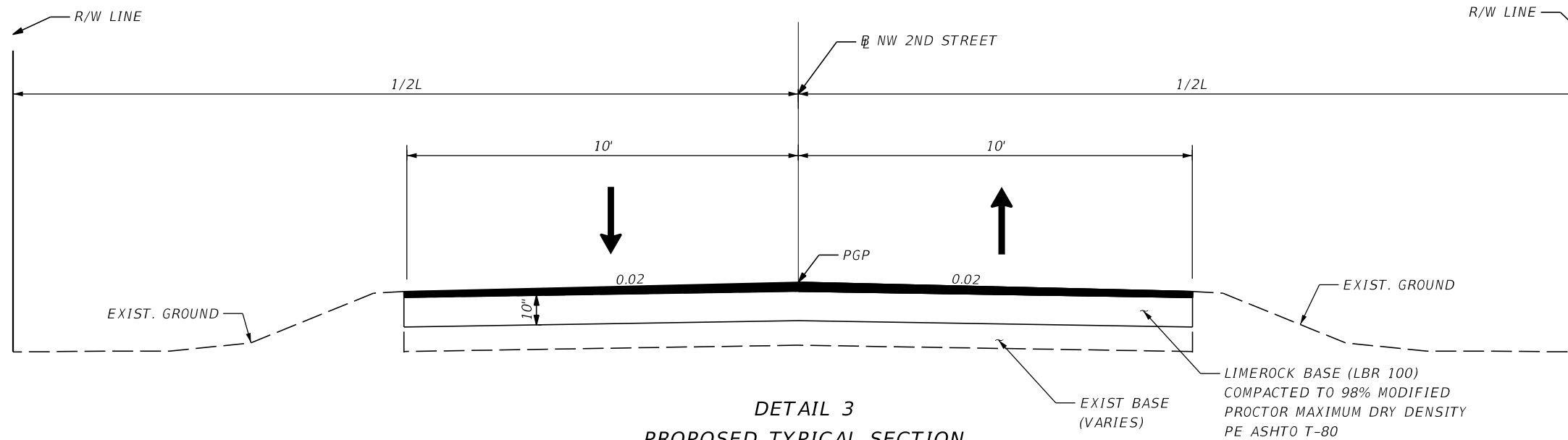
DETAIL 2
PROPOSED TYPICAL SECTION
NW 2ND STREET

MILLING

MILL EXISTING ASPHALT
 PAVEMENT FOR DEPTH (2")

RESURFACING

TYPE SP-9.5 STRUCTURAL COURSE (TRAFFIC C) (2")



DETAIL 3
PROPOSED TYPICAL SECTION
NW 2ND STREET

APPROX. 100 LF EAST FROM SW 10TH AVE
 AND 450 LF STARTING 60 LF WEST FROM US 27

PARTIAL RECONSTRUCTION

TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2")
 OPTIONAL BASE GROUP 9 (10")

LIMEROCK BASE (LBR 100)
 COMPACTED TO 98% MODIFIED
 PROCTOR MAXIMUM DRY DENSITY
 PE ASHTO T-80

NOTE:

1. THE CONTRACTOR SHALL SAW CUT ALL EXISTING DRIVEWAYS PRIOR TO MILLING TO ENSURE A STRAIGHT AND CLEAN JOINT IS CREATED AFTER RESURFACING.
2. SEDIMENT BARRIER SHALL BE INSTALLED ALONG THE FULL LENGTH OF THE PROJECT ON BOTH SIDE OF THE ROADWAY.

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DATE	DESCRIPTION	DATE	DESCRIPTION

CAP ENGINEERING, INC. 343 ALMERIA AVE CORAL GABLES, FL 33134 CERTIFICATE OF AUTHORIZATION NO. 27051		CITY OF SOUTH BAY		TYPICAL SECTION-2	SHEET NO.
ROAD NO.	COUNTY	FINANCIAL PROJECT ID			5
1ST AVE 2ND ST	PALM BEACH				

GENERAL NOTES

1. THE INFORMATION PROVIDED IN THESE PLANS IS TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT ANY INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
2. THE CONTRACTOR SHALL BE ADVISED THAT OTHER PROJECTS MAY BE UNDER CONSTRUCTION CONCURRENTLY WITH THIS PROJECT AND THAT COORDINATION EFFORTS MAY BE NECESSARY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE CONSTRUCTION SCHEDULE AND FOR THE AMOUNT OF COORDINATION REQUIRED. THE CONTRACTOR SHALL COORDINATE ANY AND ALL CONSTRUCTION ACTIVITIES AND TRAFFIC CONTROL PHASES WITH ANY CONTRACTOR WITH OR ADJACENT TO THE PROJECT LIMITS.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS BETWEEN DRAWINGS AND ACTUAL CONDITIONS ARE DISCOVERED.
4. THE CONTRACTOR SHALL VERIFY STRUCTURE ORIENTATION PRIOR TO PLACEMENT. STRUCTURES OF INCORRECT ORIENTATION SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL VERIFY THAT ALL STRUCTURES ARE SET TO ELEVATIONS THAT WILL MEET VERTICAL CLEARANCE REQUIREMENTS SPECIFIED IN FDOT, MUTCD, AND STANDARDS PRIOR TO INSTALLING STRUCTURAL MATERIAL. IF A DISCREPANCY IS FOUND, CONTACT THE ENGINEER.
5. THE CONTRACTOR SHALL BE AWARE OF, AND COMPLY WITH MUNICIPAL ORDINANCES GOVERNING THE DAYS AND TIMES CONSTRUCTION ACTIVITY IS PERMITTED.
6. NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM THEIR RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENCES ALONG THE PROPOSED CONSTRUCTION AREA.
7. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE OF COMMENCEMENT, VIA EMAIL, TO CITY OF SOUTH BAY NOTICE SHALL INCLUDE THE DATE OF COMMENCEMENT, LOCATION AND TYPE OF WORK & INFORMATION REGARDING ANY MALFUNCTIONING SIGNAL EQUIPMENT.
8. CONTRACTOR SHALL COORDINATE AND ADJUST THE TRAFFIC CONTROL LAYOUT SO THAT IT IS COMPATIBLE WITH ANY ADJACENT CONSTRUCTION PROJECT AS DIRECTED BY THE ENGINEER.

9. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT MILLED MATERIAL FROM ENTERING THE DRAINAGE SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING EXISTING AND NEW INLETS CLEAN OF MILLING MATERIAL, LIMEROCK, DEBRIS DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE CITY.
10. CONTRACTOR SHALL NOTIFY FLORIDA HIGHWAY PATROL, LOCAL SHERIFF DEPARTMENT AND AMBULANCE SERVICES IN WRITING 14 BUSINESS DAYS IN ADVANCE OF LANE CLOSURES.
11. ALL AREAS DESIGNATED FOR PAVEMENT REMOVAL WILL BE SAWCUT AT THE LIMITS OF REMOVAL ADJACENT TO THE EXISTING PAVEMENT WHICH IS TO REMAIN.
12. THE CONTRACTOR SHOULD BE AWARE THAT BETWEEN THE LIMITS OF WHERE THE BASE MAY BE EXPOSED, ANY MILLED MATERIAL THAT INCLUDES LIMEROCK BASE AGGREGATE, WILL NOT BE ALLOWED TO BE USED IN RECYCLED ASPHALT PAVEMENT (RAP) OR ANYWHERE ELSE ON THIS PROJECT. THIS MATERIAL SHOULD BE DISPOSED OF BY THE CONTRACTOR IN AREAS THAT THEY PROCURE AT THEIR OWN EXPENSE.
13. 101-1 - INCLUDES ALL COSTS RELATED TO STAGING AREAS AND COMPLIANCE WITH PERMIT CONDITIONS.

UTILITIES NOTES

1. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY TWO (2) WORKING DAYS IN ADVANCE OF ANY EXCAVATION INVOLVING ITS UTILITIES SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT.
2. THE CONTRACTOR SHALL USE HAND DIGGING WHEN EXCAVATING NEAR EXISTING UTILITIES. EXTREME CAUTION SHALL BE EXERCISED BY THE CONTRACTOR WHILE EXCAVATING, INSTALLING, BACKFILLING AND COMPACTING AROUND UTILITIES AND HE/SHE WILL BE RESPONSIBLE FOR DAMAGE TO ANY UTILITY. COST TO BE INCLUDED IN RELATED BID FOR THE WORK BEING DONE.
3. AS DETERMINED BY THE ENGINEER, THE CONTRACTOR WILL HAND DIG THE FIRST FOUR FEET OF THE HOLE FOR THE SIGN POST FOUNDATION AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE IN CLOSE PROXIMITY.
4. ABOVE AND BELOW GROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORK IN THE PROJECT AREA. IF ANY UTILITY CONFLICTS ARE DISCOVERED BY THE CONTRACTOR, THEY WILL IMMEDIATELY BE BROUGHT TO THE ENGINEER'S ATTENTION, WHO SHALL COORDINATE THE NECESSARY ADJUSTMENTS.

5. 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.
6. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES OVERHEAD OR UNDERGROUND POWER LINES AND OTHER UTILITIES.
7. THE CONTRACTOR SHALL COORDINATE THE UTILITIES TO ARRANGE RELOCATION AND TEMPORARY SUPPORT OF UTILITY FEATURES, AS NECESSARY TO COMPLETE THE WORK. ANY COST INVOLVED IS TO BE BORNE BY THE CONTRACTOR.
8. CONTRACTOR IS RESPONSIBLE TO PAY FPL ALL FEES TO DE-ENERGIZE FPL FACILITY IF NEEDED FOR ANY REASON.
9. CONTRACTOR SHALL PREPARE ACCURATELY DIMENSIONED "AS-BUILT" PLANS OF ALL PROPOSED WORK. PLANS SHALL BE REVIEWED AND APPROVED BY ENGINEER. COST OF SUCH PREPARATION SHALL BE INCIDENTAL TO PAY ITEMS PROVIDED.
10. ALL UTILITIES SHALL BE ADJUSTED TO MEET FLUSH WITH FINAL PAVEMENT. FOR UTILITY ADJUSTMENT SYMBOLS SEE FDOT CADD MANUAL.



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REVISIONS				CAP ENGINEERING, INC. 343 ALMERIA AVE CORAL GABLES, FL 33134 CERTIFICATE OF AUTHORIZATION NO. 27051	CITY OF SOUTH BAY			SHEET NO. 6
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					1ST AVE 2ND ST	PALM BEACH		GENERAL NOTES -1

MAINTENANCE OF TRAFFIC NOTES

1. THE CONTRACTOR SHALL REMOVE OR COVER ANY EXISTING OR PROPOSED SIGNS WHICH CONFLICT WITH THE TRAFFIC CONTROL PLANS. WHEN THE CONFLICT NO LONGER EXISTS, THE CONTRACTOR SHALL RESTORE THE SIGNS TO THEIR ORIGINAL POSITION.
2. EXISTING STREET AND ROAD NAME SIGNS ON THE PROJECT ARE TO BE TEMPORARILY RELOCATED DURING CONSTRUCTION, AND KEPT VISIBLE AT ALL TIMES FOR THE FACILITATION OF ACCESS BY EMERGENCY VEHICLES.
3. ANY DIRECTIONAL ARROWS, PAVEMENT MESSAGES OR STRIPING REMOVED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED AT THE END OF EACH DAY.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EXISTING SIGNS WITHIN THE CONSTRUCTION LIMITS. A LIST OF THE EXISTING SIGNS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO THE BEGINNING OF CONSTRUCTION. ANY SIGNS WHICH ARE TO BE REMOVED SHALL BE DISPOSED OF BY THE CONTRACTOR.
5. ANY EXISTING SIGN THAT IS DISTURBED DURING CONSTRUCTION SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET AND METHOD OF INSTALLATION AT NO ADDITIONAL COST TO THE CITY.
6. THE CONTRACTOR SHALL REFURBISH ANY EXISTING PAVEMENT MARKINGS BEYOND THE LIMITS OF ASPHALT CONSTRUCTION DAMAGED DURING CONSTRUCTION.
7. THE CONTRACTOR SHALL COORDINATE WITH THE FOLLOWING ENTITIES PRIOR TO CONSTRUCTION TO ADDRESS SCHEDULE OF TRAFFIC CONTROL: PALM BEACH COUNTY, CITY OF SOUTH BAY, AND FDOT.
8. THROUGHOUT THE PROJECT LIMITS, PEDESTRIAN, BICYCLE AND WHEELCHAIR TRAFFIC WILL BE MAINTAINED ON AT LEAST ONE SIDE OF THE PROJECT AT ALL TIMES. THE TRAVEL PATH WILL BE A MINIMUM OF 4 FEET WIDE, SMOOTH BUT NOT SLICK, WITH A WATERPROOF SURFACE, RUMPLED AS NECESSARY FOR CONTINUITY. TEMPORARY TRAVEL PATHS WILL CONSIST OF 2" OF HOT MIX ASPHALT. COST INCLUDED IN PAY ITEM 102-1.
9. WHERE SAFE PEDESTRIAN ACCESS/WALKWAYS CANNOT BE PROVIDED, PEDESTRIANS SHOULD BE DIRECTED TO ALTERNATIVE ROUTES BY APPROPRIATE TRAFFIC CONTROL DEVICES. PEDESTRIAN TRAFFIC SHALL BE GUIDED/MAINTAINED USING APPROVED WARNING LIGHTS, SIGNING, AND CHANNELIZATION DEVICES. SUCH CONTROL DEVICES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MUTCD SECTIONS ON WORK ZONE TRAFFIC CONTROL FOR PEDESTRIANS AND CHAPTER 6D, PEDESTRIAN AND WORKER SAFETY. THE COST IS TO BE INCLUDED IN PAY ITEM NO. 102-1, MAINTENANCE OF TRAFFIC.
10. 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 A TIME THAT THE TRAFFIC FLOW HAS RETURNED TO AN ACCEPTABLE LEVEL.
11. THE CONTRACTOR SHALL IMPLEMENT SIDE STREET DETOUR ONLY WHEN SIDE STREET IS BLOCKED BY ACTIVE CONSTRUCTION ACTIVITIES. SIDE STREET ACCESS SHALL BE MAINTAINED AT ALL OTHER TIMES.
12. TEMPORARY DRIVEWAY CONNECTIONS SHALL BE CONSTRUCTED WITH COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE AT A PROFILE EQUIVALENT TO THE EXISTING DRIVEWAY PROFILE.
13. ALL PROPERTIES SHALL HAVE ACCESS AT ALL TIMES. THIS WILL REQUIRE COORDINATION WITH THE PROPERTY OWNERS AND/OR RESIDENTS. IF A DRIVEWAY CLOSURE IS NECESSARY, THE PROPERTY OWNER AND/OR RESIDENT SHALL BE NOTIFIED THREE WORKING DAYS IN ADVANCE OF THE CLOSURE IN ADDITION TO THE LOCATION OF THE TEMPORARY ACCESS. IF THE PROPERTY HAS MORE THAN ONE DRIVEWAY, AT LEAST ONE DRIVEWAY SHALL REMAIN OPEN TO MAINTAIN ACCESS. THIS SHALL BE INCLUDED IN PAY ITEM NO. 102-1 MAINTENANCE OF TRAFFIC.
14. THE CONTRACTOR SHALL INSTALL CONSTRUCTION SIGNING PRIOR TO COMMENCEMENT OF CONSTRUCTION AND MAINTAIN SIGNING DURING ALL PHASES OF CONSTRUCTION.
15. THE PROVISIONS FOR TRAFFIC DISRUPTION WHICH ARE NOT SHOWN BUT ARE NECESSARY TO CONSTRUCTION OF THE PROJECT, SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW AND APPROVAL. CONTRACTOR SHALL BE REQUIRED TO HAVE AN APPROVED TCP PLAN 21 DAYS PRIOR TO COMMENCEMENT OF WORK. SUBMITTAL MATERIAL SHALL INCLUDE SKETCHES, CALCULATIONS AND OTHER DATA REQUIRED BY THE ENGINEER.
16. PRIOR TO IMPLEMENTATION OF ANY LANE OR ROAD CLOSURE, THE CONTRACTOR SHALL NOTIFY THE CITY OF SOUTH BAY AT LEAST 10 WORKING DAYS PRIOR TO CLOSURE.
17. NOTIFICATION OF PROPOSED LANE CLOSURES SHALL BE ACCOMPLISHED IN WRITING TO THE ENGINEER TEN (10) WORKING DAYS IN ADVANCE OF CLOSURE. THE NOTIFICATION WILL INCLUDE SKETCHES, CALCULATIONS, AND OTHER DATA REQUIRED BY THE ENGINEER. THE CONTRACTOR SHALL ALSO NOTIFY LOCAL POLICE, FIRE, AND AMBULANCE SERVICES TEN (10) WORKING DAYS PRIOR TO ACTUAL LANE CLOSURE.
18. 102-1 INCLUDES ALL COSTS FOR REMOVAL AND CLEAN UP OF DEBRIS AND SEDIMENT THAT HAS BEEN TRACKED BY CONSTRUCTION VEHICLES WITHIN THE PROJECT LIMITS. INCLUDES ALL COSTS OF MAINTAINING PASSENGER ACCESS TO BUS STOPS WITHIN PROJECT LIMITS AND PROVIDING APPROVED TEMPORARY BUS STOP LOCATION, IF NECESSARY DURING CONSTRUCTION. INCLUDES ALL COSTS OF INSTALLATION OF PERMANENT BUS STOP SIGNS (PROVIDED BY PALM TRAN). INCLUDES ALL COSTS FOR TEMPORARY SHORING FOR CONSTRUCTION OF DRAINAGE PIPE AND STRUCTURES AND WATER MAIN INSTALLATION.
19. ALL EXISTING TREES/PLANTS WITHIN THE PROJECT LIMITS THAT ARE TO REMAIN SHALL BE PROTECTED AS PER INDEX 580-001. COSTS TO BE INCLUDED IN PAY ITEM NO. 102-1
20. THE CONTRACTOR SHALL ERECT BUSINESS ENTRANCE SIGNS PER STANDARD INDEX 102-600.
21. TRAFFIC CONTROL SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE FDOT STANDARD PLANS - 102-600 SERIES, THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION) AS MINIMUM CRITERIA.
22. UNLESS OTHERWISE NOTED IN THE TECHNICAL SPECIFICATIONS: INSTALLATION, ACCEPTANCE, AND PAYMENT FOR ALL ITEMS REQUIRED IN THESE PLANS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING, REFERENCED IN THE KEY SHEET: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) (LATEST EDITION) PALM BEACH COUNTY MINIMUM STANDARDS, CITY OF SOUTH BAY MINIMUM STANDARDS, AND ANY OR ALL FDOT TRAFFIC ENGINEERING REQUIREMENTS THAT MEET OR EXCEED THOSE FOUND IN THE ABOVE REFERENCED DOCUMENTS.
23. USE OF BLACK PAINT TO COVER EXISTING AND/OR TEMPORARY PAVEMENT MARKINGS IS PROHIBITED. MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND AT THE END OF THE PROJECT AND AT ALL SIDE STREETS. PAVEMENT MARKINGS NEEDED FOR EXTENDING AND REFURBISHING DAMAGED EXISTING PAVEMENT MARKING AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE INCLUDED IN 102-1. COSTS FOR REMOVAL AND REPLACEMENT OF EXISTING CROSSWALK PAVEMENT MARKINGS TO MATCH NEW ADA RAMP LOCATIONS SHALL BE INCLUDED IN 102-1.

REVISIONS				CAP ENGINEERING, INC. 343 ALMERIA AVE CORAL GABLES, FL 33134 CERTIFICATE OF AUTHORIZATION NO. 27051	CITY OF SOUTH BAY			GENERAL NOTES - 2	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						1ST AVE 2ND ST	PALM BEACH		

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ENVIRONMENTAL NOTES

24. THE MAINTENANCE OF TRAFFIC PLAN SHALL INCLUDE PROVISIONS FOR PEDESTRIAN TRAFFIC AS WELL AS VEHICULAR TRAFFIC.
25. ANY DROP OFF IN THE AREA ADJACENT TO THE TRAVEL WAY SHALL BE PROTECTED BY THE APPROPRIATE METHOD AS REQUIRED BY INDEX 102-600 (PAGE 2 OF 5). ALL COSTS ASSOCIATED WITH THIS REQUIREMENT SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC, AT THE END OF EACH WORK DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP-OFF ADJACENT TO THE SUBJECT TRAVEL PATHS SHALL BE BACK FILLED FLUSH WITH THE TRAVEL PATH. COST OF ITEMS NOT INCLUDED IN CONTRACT SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
26. THE ALTERATION OF TRAVEL WAYS TO CREATE A WORK ZONE SHALL NOT COMMENCE UNTIL ALL LABOR AND MATERIAL ARE READY FOR THE CONSTRUCTION IN THAT ZONE.
27. EACH EXISTING STREET NAME AND STOP SIGN AFFECTED BY CONSTRUCTION SHALL BE MAINTAINED IN AN APPROPRIATE LOCATION FOR THE DURATION OF THE PROJECT. WHEN NO LONGER AFFECTED BY CONSTRUCTION, THESE EXISTING SIGNS SHALL BE REMOVED AND REPLACED WITH THE PROPOSED ASSEMBLIES. COST OF TEMPORARILY RELOCATING THE EXISTING SIGNS SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
28. THE PEDESTRIAN, BICYCLE AND WHEELCHAIR TRAFFIC WILL BE GUIDED AND MAINTAINED USING APPROVED WARNING LIGHTS, SIGNING AND CHANNELIZATION DEVICES. SUCH CONTROL DEVICES WILL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH FDOT SPECIFICATIONS, STANDARD INDEX 102-660 AND THE MUTCD. COST INCLUDED IN ITEM 102-1.
29. CONTRACTOR SHALL NOT STORE EQUIPMENT WITHIN THE CLEAR ZONE DURING CONSTRUCTION ACTIVITY PERIOD, THE CONTRACTOR SHALL LIMIT THE STORAGE OF EQUIPMENT TO THE WORK ZONE AREA AND WITHIN THE RIGHT OF WAY.
30. TEMPORARY LANE TRANSITIONS, SHIFTS, AND CROSSOVERS SHALL HAVE SOLID LANE AND EDGE LINES FOR THE LENGTH OF THE TRANSITION, SHIFT OR CROSSOVER. IN ADDITION, SOLID LANE AND EDGE LINES SHALL EXTEND 100 FEET ON TANGENT BEYOND EACH END OF THE TRANSITION, SHIFT, OR CROSSOVER. EXCEPTION SHALL BE THROUGH INTERSECTIONS WHERE 2' - 4' SKIP LINES WILL BE PLACED.
31. THE MAINTENANCE OF TRAFFIC FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD PLANS. DETAILS FOR SIGNS, PAVEMENT MARKINGS, BARRIERS ARE NOT ALL INCLUSIVE WITH THE TCP PLANS. THE STANDARD INDEX 102-600 SERIES SHALL BE REFERENCED FOR SPECIFIC TRAFFIC CONTROLS AND LANE CLOSURES OR DETOURS.

32. CONTRACTOR SHALL MAINTAIN A MINIMUM SHIFTING TAPER LENGTH BEFORE SHIFTING TRAVEL LANES, WHERE: $X = WS^2/60$ 'W' IS THE WIDTH OF LATERAL TRANSITION IN FEET 'S' IS THE POSTED REGULATORY SPEED FOR THE WORK
33. REMOVAL OF EXISTING AND/OR TEMPORARY PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY WATER BLASTING.
34. APPLY SHOULDER TREATMENT TO ANY DROP-OFF CONDITIONS PER INDEX 102-600 PRIOR TO THE END OF THE WORK PERIOD.
35. THE MINIMUM LANE WIDTH SHALL BE 10 FEET.

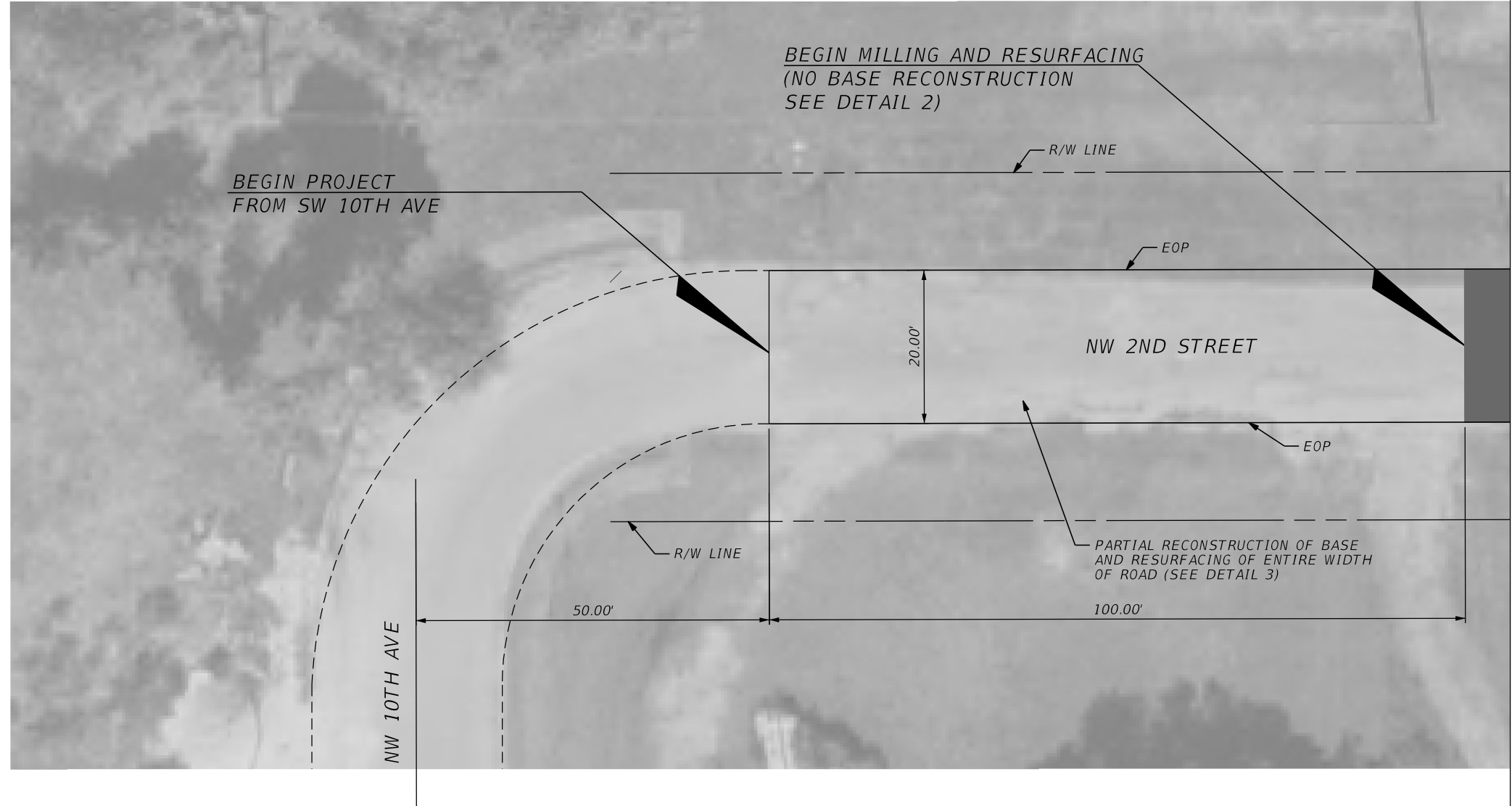
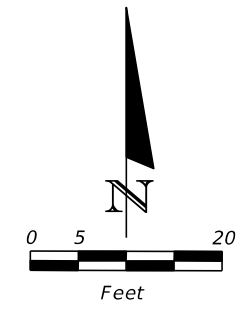
EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORM WATER FROM THE ROADWAYS UTILIZED FOR MAINTAINING TRAFFIC IN A MANNER APPROVED BY THE ENGINEER. COST TO BE INCLUDED IN PAY ITEM NO. 102-1 MAINTENANCE OF TRAFFIC
2. ALL EROSION AND SEDIMENT CONTROL ITEMS SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT.
3. TAKE MEASURES TO ENSURE TO CLEANUP OF SEDIMENT THAT HAS BEEN TRACKED BY CONSTRUCTION VEHICLES WITHIN THE PROJECT LIMITS. INSTALL EROSION CONTROL DEVICES TO ENSURE SEDIMENT DOES NOT ENTER THE
4. ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS ARE TO BE SODDED. THE REPLACEMENT SOD SHALL BE OF THE SAME TYPE AS THE EXISTING SOD. ALL AREAS OUTSIDE OF THE CLEARING AND GRUBBING LIMITS THAT ARE DISTURBED BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
5. ALL EXISTING DRAINAGE STRUCTURES SHALL BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION OPERATIONS ACCORDING TO THE FL DEP, EROSION AND SEDIMENTATION CONTROL INSPECTOR MANUAL, SECTION 4.5 STORM DRAIN INLET PROTECTION.
6. THE CONTRACTOR SHALL INCLUDE FURNISHING EQUIPMENT AND LABOR NECESSARY TO DESILT AND CLEAN OUT ALL EXIST DRAINAGE PIPES, INLETS, MANHOLES, AND OUTFALLS WITHIN PROJECT LIMITS, AND ALSO TO DISPOSE OF ALL SILT AND DEBRIS REMOVED. 430-94-1 PAY ITEM INCLUDES ALL COSTS ASSOCIATED WITH DE-SILTING MANHOLES, JUNCTION BOXES, & INLETS CONNECTED WITH DRAINAGE PIPES TO BE DE-SILTED.

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE IF THE CORRIDOR IS WITHIN THE CORE FORAGING AREA FOR WOOD STORK, A FEDERALLY PROTECTED SPECIES, PERMIT
2. THE CONTRACTOR SHALL TAKE ALL THE NECESSARY PRECAUTIONS TO AVOID ANY IMPACTS TO WETLANDS.

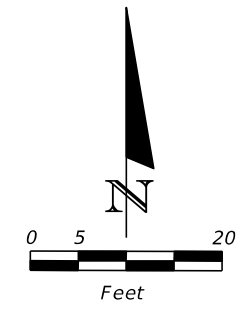
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REVISIONS				CAP ENGINEERING, INC. 343 ALMERIA AVE CORAL GABLES, FL 33134 CERTIFICATE OF AUTHORIZATION NO. 27051	CITY OF SOUTH BAY			GENERAL NOTES - 3	SHEET NO. 8
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					1ST AVE 2ND ST	PALM BEACH			



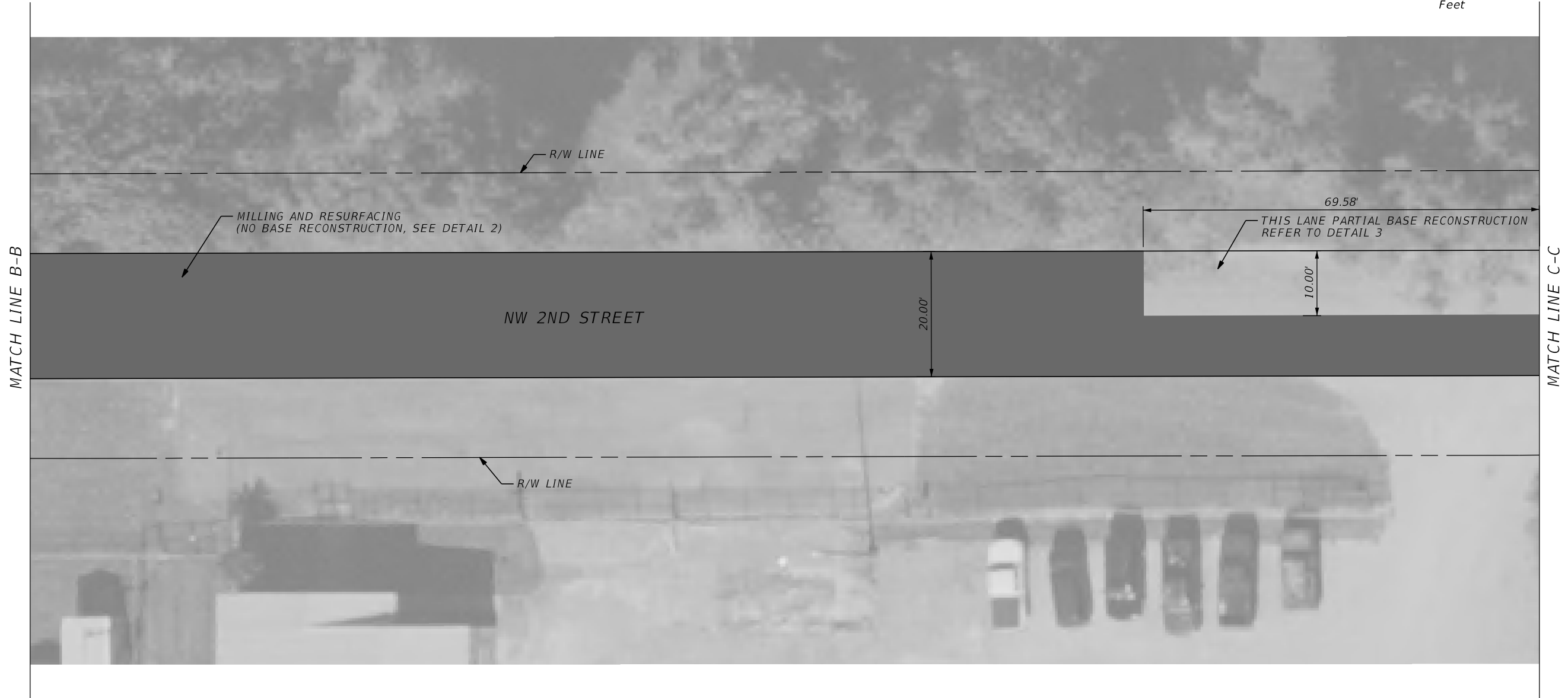
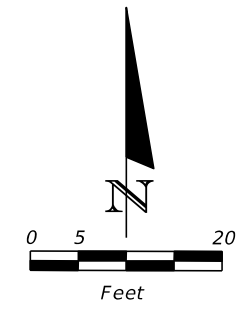
REVISIONS				CAP ENGINEERING, INC. 343 ALMERIA AVE CORAL GABLES, FL 33134 CERTIFICATE OF AUTHORIZATION NO. 27051	CITY OF SOUTH BAY			NW 2ND ST ROADWAY-1	SHEET NO. 9
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					2ND ST	PALM BEACH			

NOT FOR CONSTRUCTION
FOR BIDDING PURPOSES ONLY



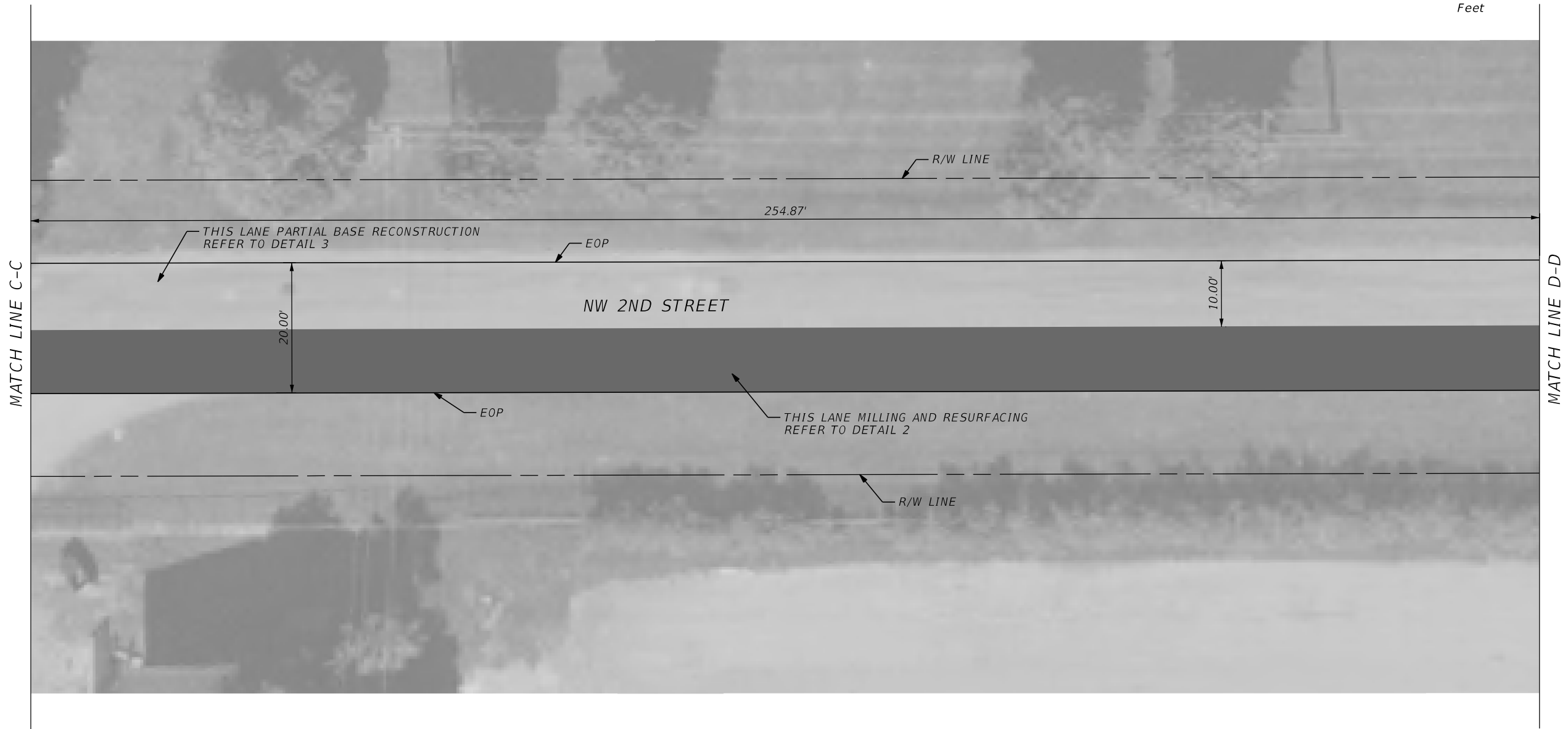
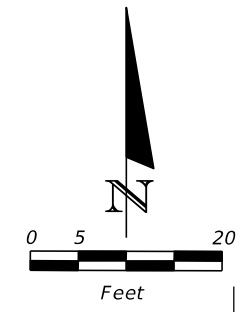
NOT FOR CONSTRUCTION
FOR BIDDING PURPOSES ONLY

REVISIONS				CAP ENGINEERING, INC. 343 ALMERIA AVE CORAL GABLES, FL 33134 CERTIFICATE OF AUTHORIZATION NO. 27051	CITY OF SOUTH BAY			NW 2ND ST ROADWAY-2	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		10
					2ND ST	PALM BEACH			



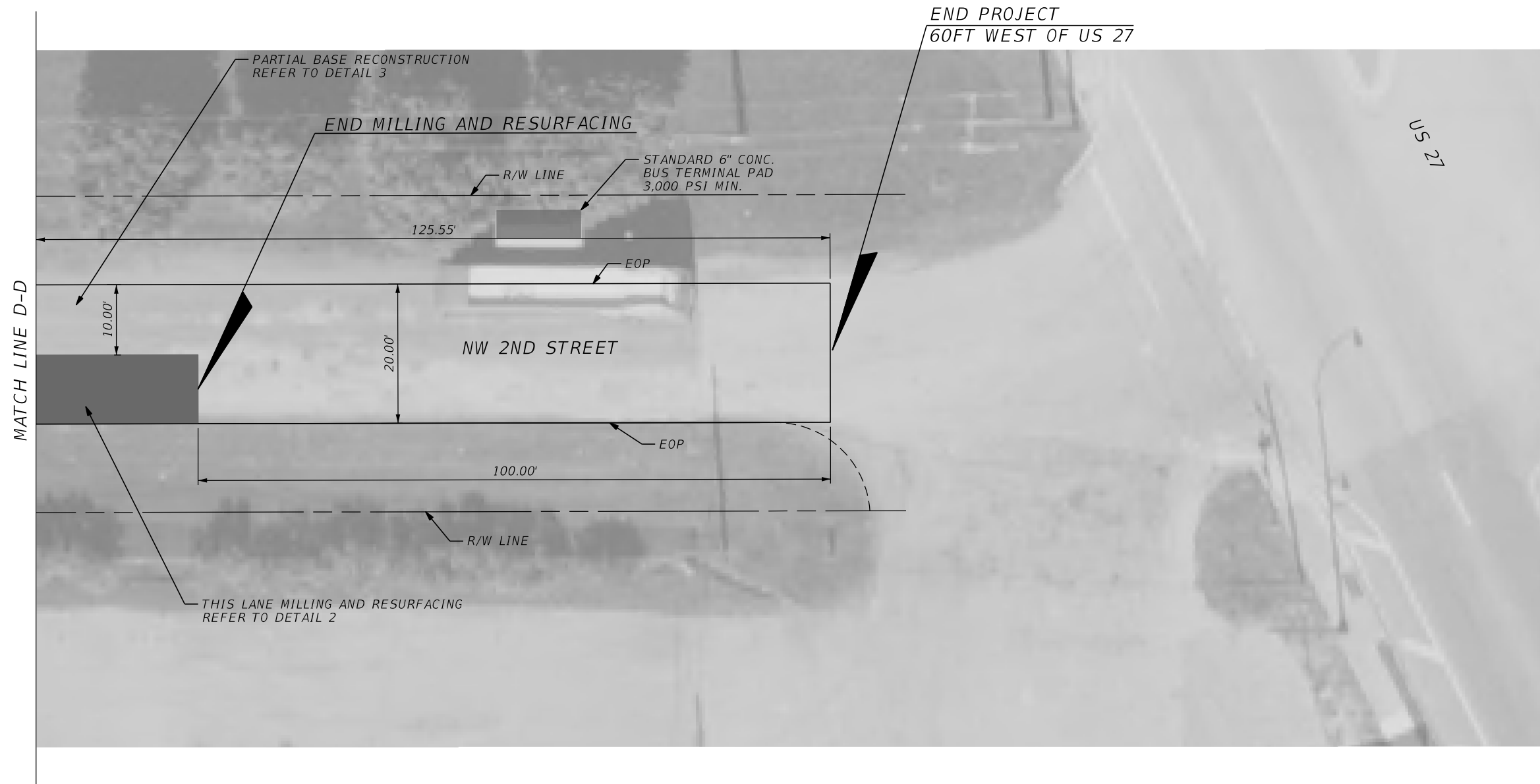
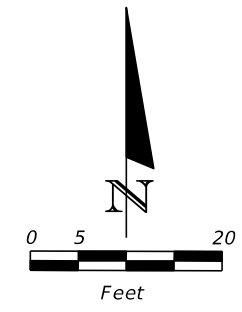
REVISIONS				CAP ENGINEERING, INC. 343 ALMERIA AVE CORAL GABLES, FL 33134 CERTIFICATE OF AUTHORIZATION NO. 27051	CITY OF SOUTH BAY			NW 2ND ST ROADWAY-3	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		11
						2ND ST	PALM BEACH		

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FOR BIDDING PURPOSES ONLY



REVISIONS				CAP ENGINEERING, INC. 343 ALMERIA AVE CORAL GABLES, FL 33134 CERTIFICATE OF AUTHORIZATION NO. 27051	CITY OF SOUTH BAY			NW 2ND ST ROADWAY-1	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		12
					2ND ST	PALM BEACH			

NOT FOR CONSTRUCTION
FOR BIDDING PURPOSES ONLY



MATCH LINE D-D

END PROJECT
60FT WEST OF US 27

PARTIAL BASE RECONSTRUCTION
REFER TO DETAIL 3

END MILLING AND RESURFACING

R/W LINE

STANDARD 6" CONC.
BUS TERMINAL PAD
3,000 PSI MIN.

125.55'

EOP

10.00'

20.00'

NW 2ND STREET

EOP

100.00'

R/W LINE

THIS LANE MILLING AND RESURFACING
REFER TO DETAIL 2

US 27

NOT FOR CONSTRUCTION
FOR BIDDING PURPOSES ONLY

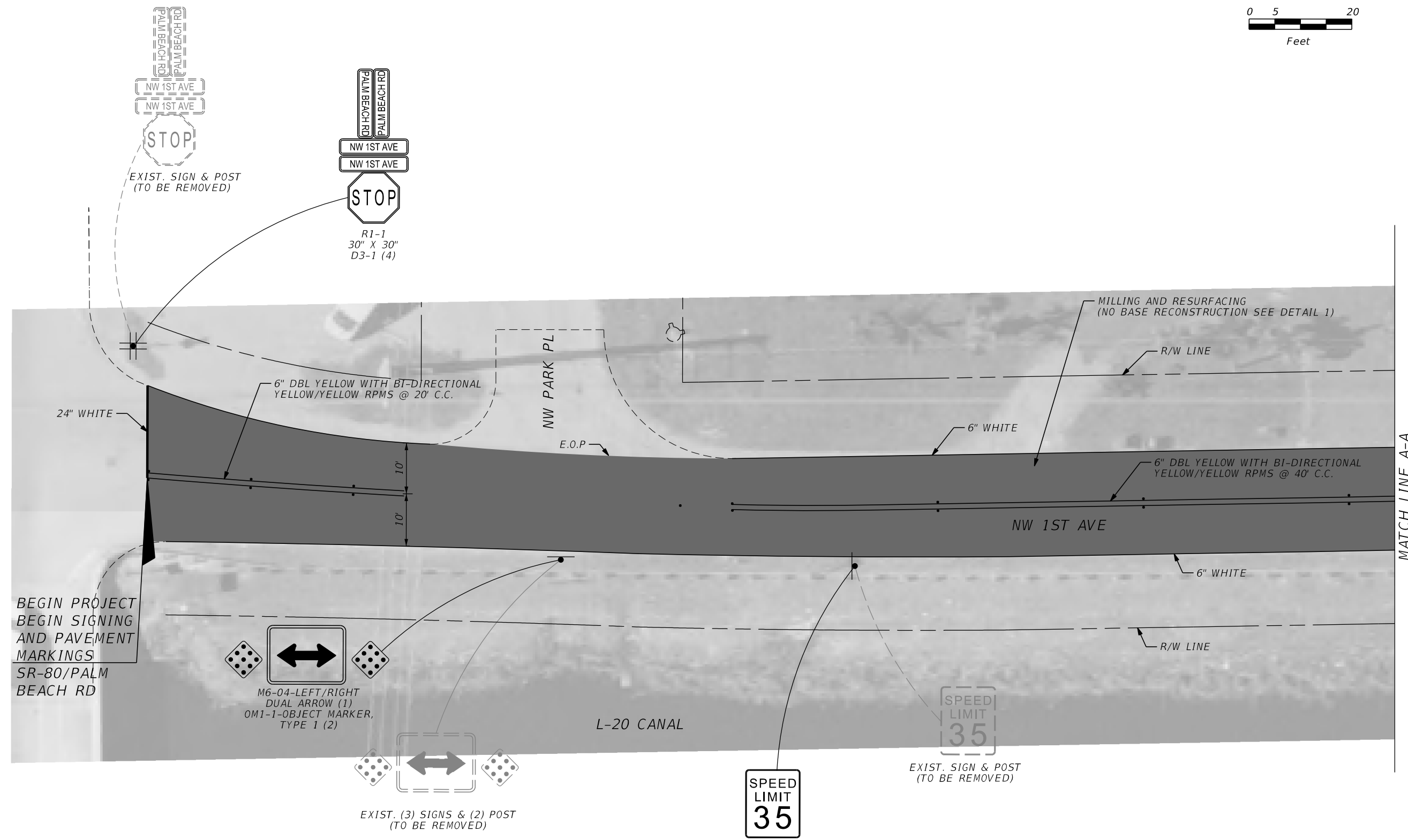
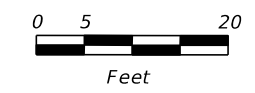
REVISIONS				CAP ENGINEERING, INC. 343 ALMERIA AVE CORAL GABLES, FL 33134 CERTIFICATE OF AUTHORIZATION NO. 27051	CITY OF SOUTH BAY			NW 2ND ST ROADWAY-5	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		13
						2ND ST	PALM BEACH		

SIGNING AND PAVEMENT MARKING GENERAL NOTES

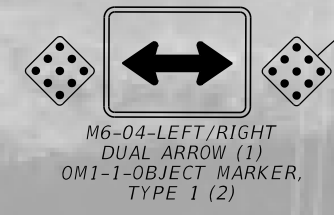
1. ALL PAVEMENT MARKING MATERIAL SHALL BE ON THE APPROVED FLORIDA DEPARTMENT OF TRANSPORTATION "QUALITY PRODUCTS LIST" (QPL) AND APPROVED BY P.B.C, TRAFFIC ENGINEER, BEFORE INSTALLATION ON COUNTY ROADWAYS.
2. REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED AS SHOWN IN PLANS. ONLY 4" BY 4" RETRO-REFLECTIVE PAVEMENT MARKERS WILL BE PERMITTED AND WILL BE ONE OF THE APPROPRIATE PRODUCTS ON THE QUALIFIED PRODUCT LIST.
3. ALL EXISTING SIGNAGE AFFECTED BY CONSTRUCTION SHALL BE RELOCATED TO AND MAINTAINED IN A VISIBLE LOCATION FOR THE DURATION OF THE PROJECT. ANY SIGNS DAMAGED IN THE PROCESS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE CITY.
4. ANY EXIST PULL BOXES AND COMMUNICATIONS CABLE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
5. 102-1 INCLUDES THE COST FOR REMOVAL OF ANY CONFLICTING PAVEMENT MARKINGS, AND RPM'S REQUIRED TO COMPLETE THE PROPOSED WORK.
6. NO ROAD CROSSING OR ENTERING THE PROJECT SHALL BE UNDULY RESTRICTED UNLESS OTHERWISE APPROVED BY THE ENGINEER.
7. THE CONTRACTOR SHALL REMOVE ANY EXISTING OR PROPOSED PAVEMENT MARKINGS (PAINT/THERMOPLASTIC) THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS. WHEN THE CONFLICT NO LONGER EXISTS THE CONTRACTOR SHALL RESTORE PAVEMENT MARKINGS TO THEIR ORIGINAL POSITION.
8. THE CONTRACTOR SHALL PROVIDE TEMPORARY PAVEMENT MARKINGS INDICATING LANE LINES AND STORAGE AREAS FOR TURNING MOVEMENT, ARROWS AND PAVEMENT MESSAGES TO COMPLETELY DEFINE TRAFFIC LANE USAGE DURING AND AT THE END OF THE DAYS OPERATION AND DURING THE CURING PERIOD FOR THE NEW PAVEMENT.
9. THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION VISIBLE DURING OPERATIONS, IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC.
10. SIGNING AND PAVEMENT MARKINGS TO BE PLACED IN ACCORDANCE WITH THE FDOT DESIGN STANDARDS AND THE LATEST MUTCD.
11. THERMOPLASTIC SHALL CONFORM TO THE REQUIREMENT OF THE FLORIDA DEPT. OF TRASPORTATION (F.D.O.T.) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. SEE SECTION 711. MINIMUM THICKNESS SHALL BE 90MILS (ALKYD ONLY), EXTRUDED ONLY, ON ALL COUNTY MAINTAINED ROADWAYS.
12. THERMOPLASTIC SHALL BE USED UNLESS OTHERWISE APPROVED BY PALM BEACH COUNTY TRAFFIC ENGINEER.
13. PAVEMENT MARKING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIGE CONSTRUCTION, THE M.U.T.C.D. & F.D.O.T. & TRAFFIC DESIGN STANDARS (LASTEST EDITION), HOWEVER, WHERE CONFLICTS EXIST, THIS TYPICAL SHALL TAKE PRECEDENT OVER F.D.O.T. STANDARD SPECIFICATIONS.
14. IF EXISTING PAVEMENT MARKING MATERIAL IS NOT COMPATIBLE WITH ALKYD THERMOPLASTIC, IT SHALL BE REMOVED PRIOR TO COMMENCEMENT OF WORK.
15. ALL SIGNS AND THEIR SUPPORTS SHOWN ON THE PLAN SHEETS FOR REMOVAL SHALL BE REMOVED COMPLETELY AND DISPOSED OF BY THE CONTRACTOR. PAYMENT TO BE INCLUDED UNDER PAY ITEM 700-1-60.
16. A BLUE RPM IS TO BE PLACED AT FIRE HYDRANT LOCATIONS. PLACEMENT IS IN THE CENTER OF THE OUTSIDE LANE ADJACENT TO THE FIRE HYDRANT.
17. BEFORE FINAL ACCEPTANCE, THE PERMANENT RPM'S AS REQUIRED FOR MAINLINE EDGE, CENTER AND LANE LINES SHALL BE PLACED WITHIN 72 HOURS OF COMPLETION OF THE FRICTION COURSE PER SIGNING AND PAVEMENT MARKING PLANS. OTHER LOCATIONS FOR RPM PLACEMENT MAY BE DESIGNATED BY THE ENGINEER.
18. ALL NEW SIGNS SHALL BE DESIGNED FOR 150 M.P.H. WIND SPEED PER FDOT STANDARDS.
19. SIGN ASSEMBLY LOCATIONS SHOWN ON THE PLANS WHICH ARE IN CONFLICT WITH LIGHTING UTILITIES, DRIVEWAYS, LANDSCAPING, WHEELCHAIR RAMPS, MAY BE ADJUSTED PER DESIGN STANDARD 700-101. WARNING SIGN LOCATION CHANGES MUST BE APPROVED BY THE DISTRICT TRAFFIC OPERATIONS ENGINEER.
20. THE LANE WIDTH DIMENSIONS SHOWN IN THE SIGNING AND PAVEMENT MARKING PLANS REFLECT THE NOMINAL LANE WIDTHS, NOT THE DISTANCE BETWEEN THE STRIPES. SEE INDEX 711-001 FOR PLACEMENT OF LANE LINES.
21. DISTANCE BETWEEN STOP BAR AND CROSSWALK SHALL BE A MINIMUM OF 4 FEET.
22. THERMOPLASTIC SHALL NOT BE INSTALLED ON ROADWAY UNTIL FOURTEEN CALENDAR DAYS AFTER THE FINAL LIFT OF ASPHALT HAS BEEN COMPLETED, UNLESS OTHERWISE SPECIFIED BY PALM BEACH COUNTY TRAFFIC ENGINEER.
23. ALL PAVEMENT MARKINGS SHALL HAVE REFLECTIVITY OF NOT LESS THAN 300 MINICANDELAS AT INSTALLATION.
24. DRAWINGS SHALL BE SUBMITTED EITHER IN 1"=20', 1"=30' OR 1"=40' SCALE.
25. ALL REFLECTIVE PAVEMENT MARKERS SHALL BE APPROVED BY PALM BEACH COUNTY TRAFFIC ENGINEER BEFORE INSTALLATION.
26. ALL MARKERS SHALL BE CLASS "B" AS PER F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIGE SECTION 706.
27. EPOXY OR BITUMINOUS SHALL BE USED WHEN INSTALLING R.P.M.'S ON CONCRETE OR ASPHALT PAVEMENT. THERMOPLASTIC MAY BE USED TO SET R.P.M.'S ON ASPHALT PAVEMENT ONLY.
28. R.P.M 'S SHALL BE PLACED 1" (ONE INCH) TO THE LEFT OR RIGHT OF LINE.
29. ALL SIGNS SHALL BE DIAMOND GRADE REFLECTIVE SHEETING.
30. PROVIDE AT LEAST ONE SAFE, WALKABLE PATH THROUGHOUT THE CONSTRUCTION ZONE. IF THE EXISTING CURRENT WALKING SURFACES CANNOT BE MAINTAINED, THEN A TEMPORARY PATH, A MINIMUM OF 5 FEET WIDE, SHALL BE PROVIDED AND DELINEATED. TEMPORARY PATHS SHALL BE DELINEATED BY A 4 FOOT HIGH ORANGE CONSTRUCTION FENCE FOR THE ENTIRE LENGTH OF THE TEMPORARY WALK PATH. THE PATH SHALL MEET ALL ADA REQUIMENTS, THE CONTRACTOR SHALL ALSO INSTALL OR MODIFY ANY ADDITIONAL PAVEMENT, SIGNING, MARKINGS OR PEDESTRIAN SIGNALS AS NEEDED IN CONJUNTION WITH THE TEMPORARY PATH.
31. EXISTING SIDEWALK, PEDESTRIAN, BICYCLE AND WHEEL CHAIR TRAFFIC MUST REMAIN USABLE AND ACCESSIBLE, OR ALTERNATE ACCESIBLE PATHS MUST BE PROVIDED, THEY SHALL BE MAINTAINED AT TIMES THROUGHOUT THE PROJECT LIMITS.
32. SIGNS SHALL BE COVERED WHEN NOT IN COMPLIANCE WITH OR IN CONFLICT WITH PAVEMENT MARKINGS.
33. 700-1-50 INCLUDES REMOVING EXIST POST, F&I NEW POST (INDEX 11860), AND RELOCATING SIGN PANEL TO NEW POST.
34. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LENGH OF THE COLUMN SUPPORTS IN THE FIELD PRIOR TO FABRICATION.
35. ALL SIGNS AND THEIR SUPPORTS SHOWN ON THE PLAN SHEETS FOR REMOVAL SHALL BE REMOVED COMPLETELY AND DISPOSED OF BY THE CONTRACTOR. PAYMENT TO BE INCLUDED UNDER PAY ITEM 700-1-60.
36. FOR SPECIAL MARKINGS (INCLUDING DIRECTIONAL ARROWS) PLACEMENT REQUIREMENTS SEE FDOT DESIGN STANDARD INDEX NO. 17346.
37. ALL FTP SIGNS ARE AS PER FDOT SPECIAL SIGN DETAILS INDEX NO. 17355.

REVISIONS				CAP ENGINEERING, INC. 343 ALMERIA AVE CORAL GABLES, FL 33134 CERTIFICATE OF AUTHORIZATION NO. 27051	CITY OF SOUTH BAY			GENERAL NOTES -4 SIGNING AND PAVEMENT MARKINGS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						1ST AVE 2ND ST.	PALM BEACH		

NOT FOR CONSTRUCTION
FOR BIDDING PURPOSES ONLY



BEGIN PROJECT
BEGIN SIGNING
AND PAVEMENT
MARKINGS
SR-80/PALM
BEACH RD



EXIST. (3) SIGNS & (2) POST
(TO BE REMOVED)



R02-01-SPEED LIMIT 35



EXIST. SIGN & POST
(TO BE REMOVED)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

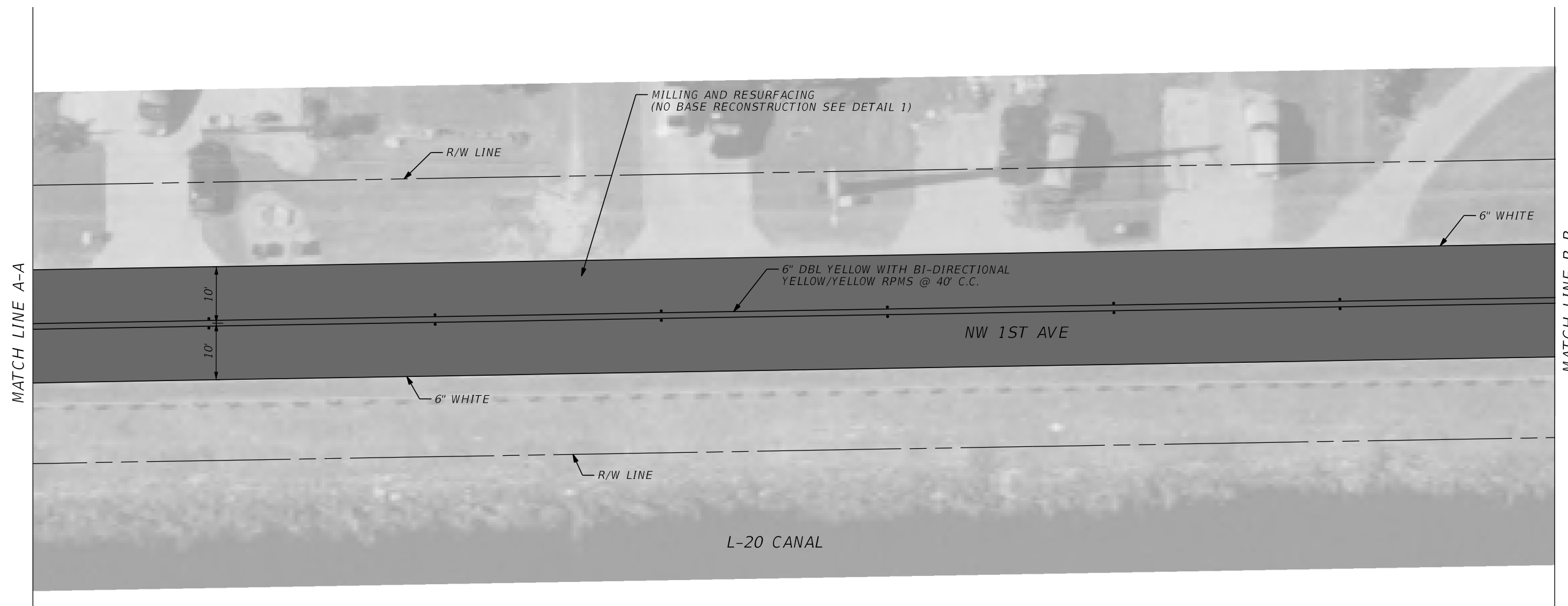
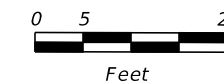
CAP ENGINEERING, INC.
343 ALMERIA AVE
CORAL GABLES, FL 33134
CERTIFICATE OF AUTHORIZATION NO. 27051

CITY OF SOUTH BAY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
1ST AVE 2ND ST.	PALM BEACH	

**NW 1ST AVE ROADWAY AND
SIGNING AND PAVEMENT
MARKINGS PLAN-1**

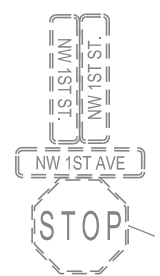
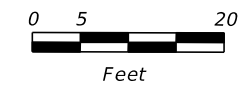
SHEET
NO.
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NOT FOR CONSTRUCTION
FOR BIDDING PURPOSES ONLY

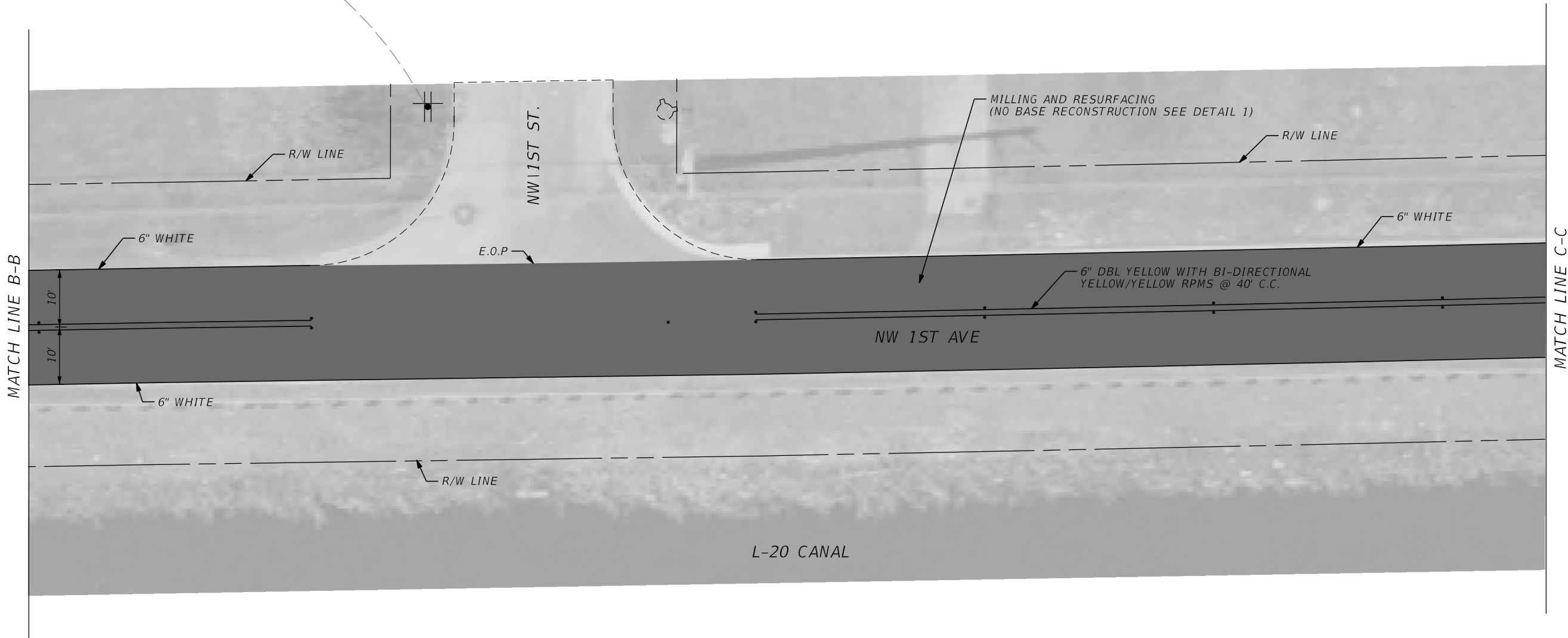


NOT FOR CONSTRUCTION
FOR BIDDING PURPOSES ONLY

REVISIONS				CAP ENGINEERING, INC. 343 ALMERIA AVE CORAL GABLES, FL 33134 CERTIFICATE OF AUTHORIZATION NO. 27051	CITY OF SOUTH BAY			NW 1ST AVE ROADWAY AND SIGNING AND PAVEMENT MARKINGS PLAN-2	SHEET NO. 16
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					1ST AVE 2ND ST.	PALM BEACH			



EXIST. SIGN & POST
(TO REMAIN)



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

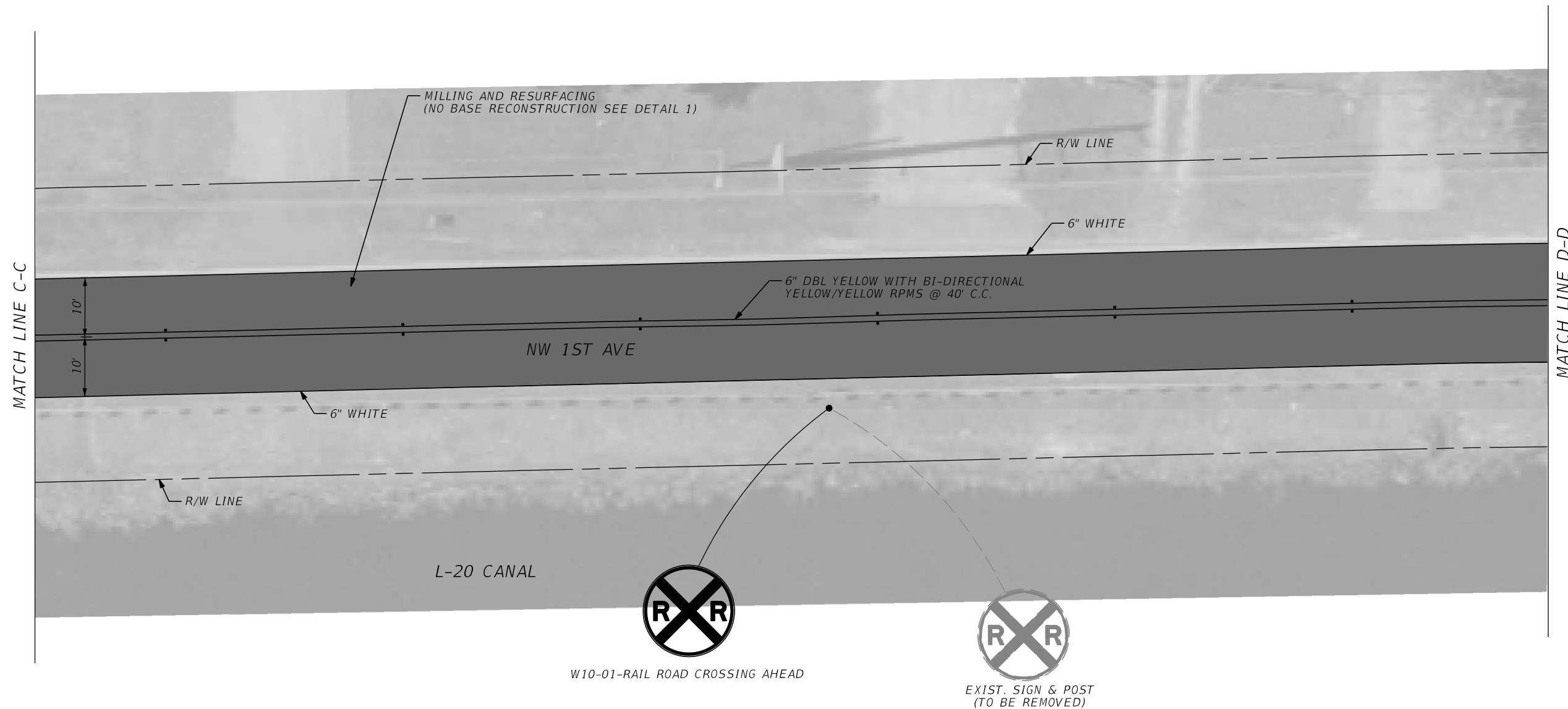
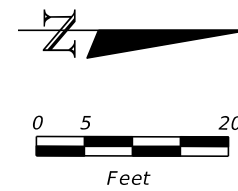
CAP ENGINEERING, INC.
343 ALMERIA AVE
CORAL GABLES, FL 33134
CERTIFICATE OF AUTHORIZATION NO. 27051

CITY OF SOUTH BAY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
1ST AVE 2ND ST.	PALM BEACH	

**NW 1ST AVE ROADWAY AND
SIGNING AND PAVEMENT
MARKINGS PLAN-3**

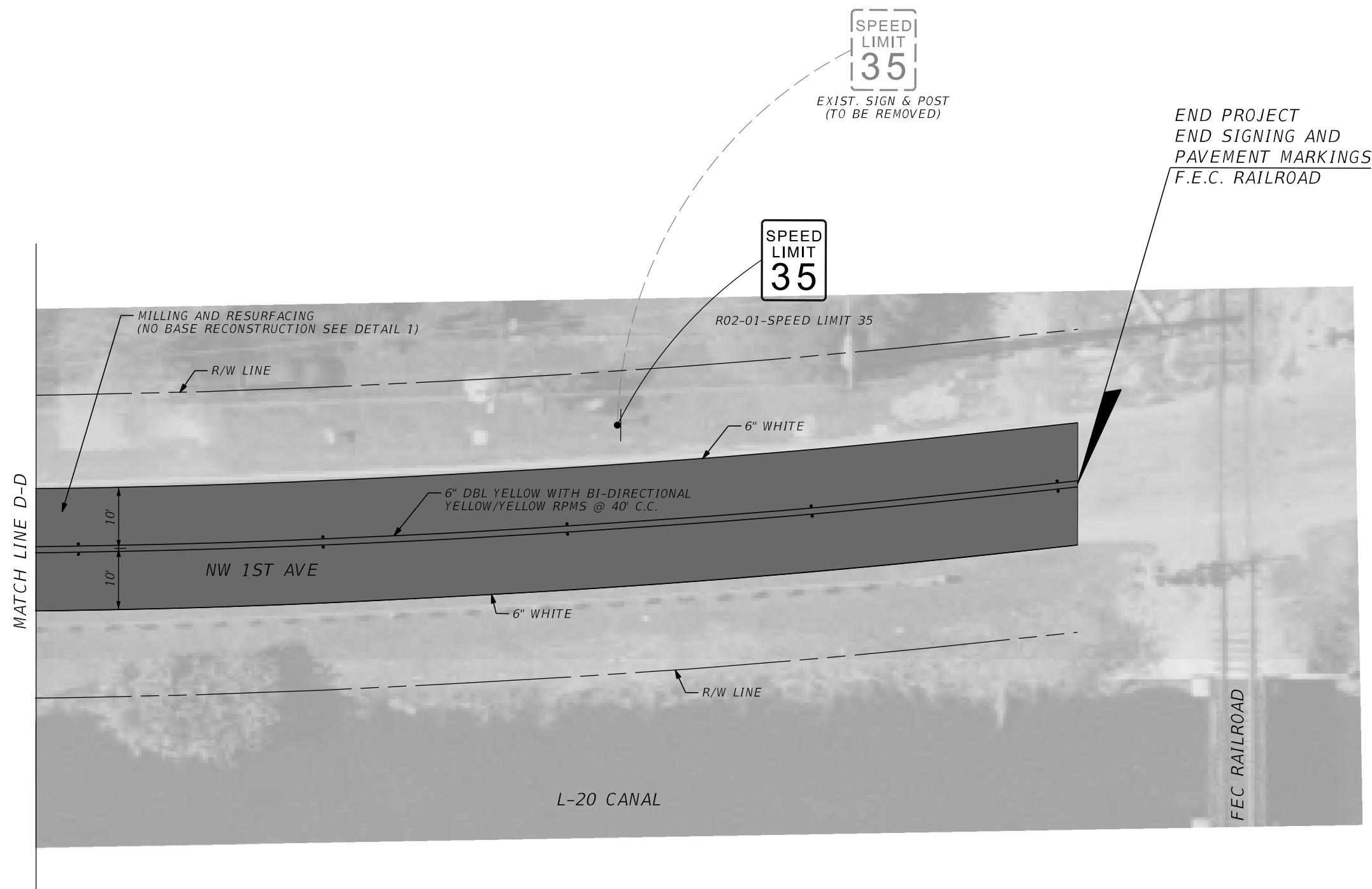
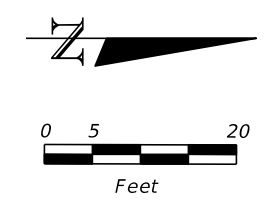
SHEET NO.
17

NOT FOR CONSTRUCTION
FOR BIDDING PURPOSES ONLY



NOT FOR CONSTRUCTION
FOR BIDDING PURPOSES ONLY

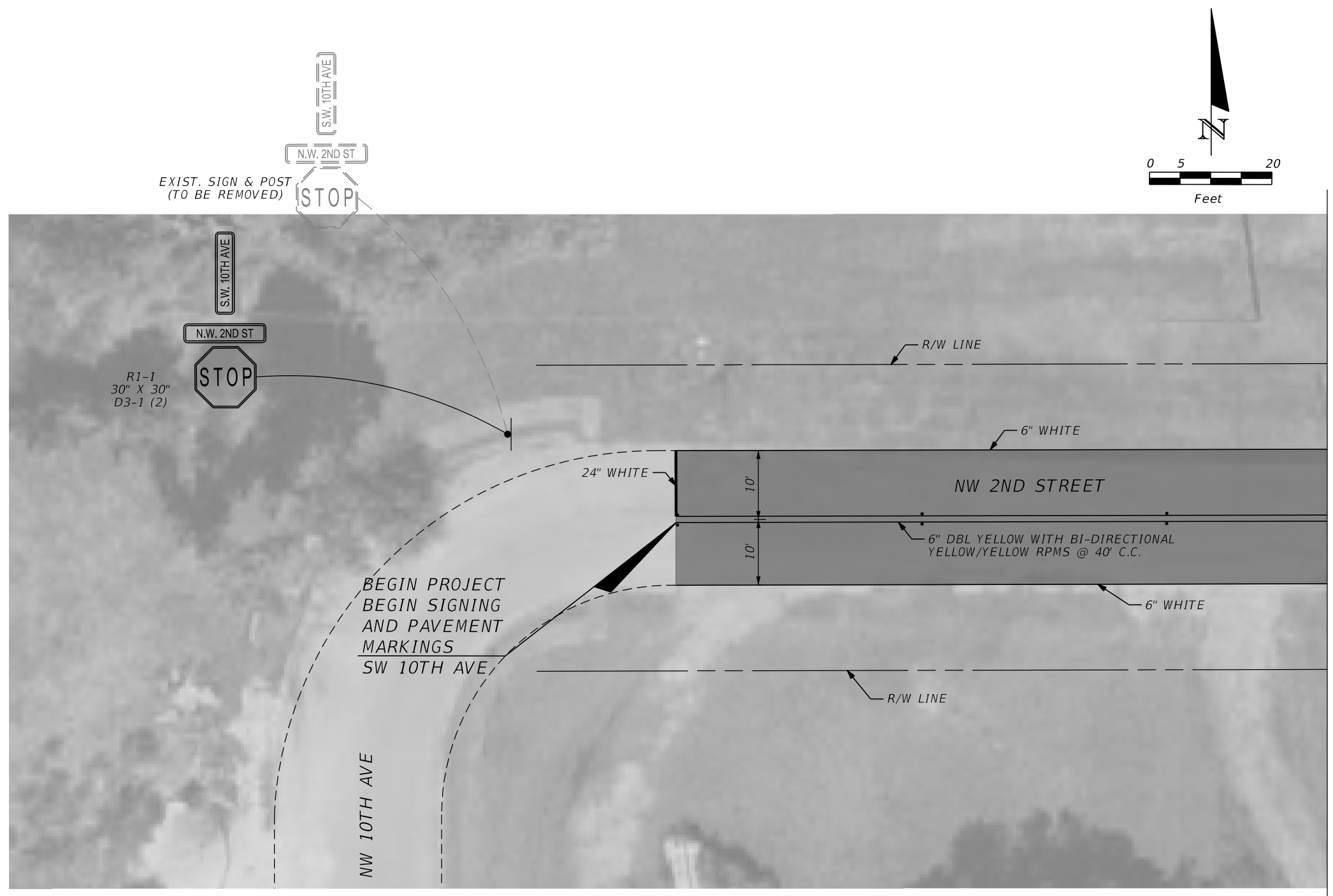
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					1ST AVE 2ND ST.	PALM BEACH			



MATCH LINE D-D

NOT FOR CONSTRUCTION
FOR BIDDING PURPOSES ONLY

REVISIONS				CAP ENGINEERING, INC. 343 ALMERIA AVE CORAL GABLES, FL 33134 CERTIFICATE OF AUTHORIZATION NO. 27051	CITY OF SOUTH BAY			NW 1ST AVE ROADWAY AND SIGNING AND PAVEMENT MARKINGS PLAN-5	SHEET NO. 19
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					1ST AVE 2ND ST.	PALM BEACH			



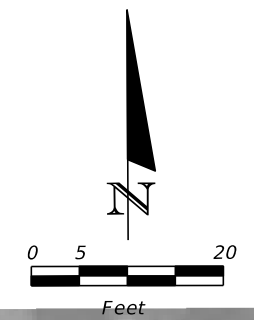
R1-1
30" X 30"
D3-1 (2)

EXIST. SIGN & POST
(TO BE REMOVED)

BEGIN PROJECT
BEGIN SIGNING
AND PAVEMENT
MARKINGS
SW 10TH AVE

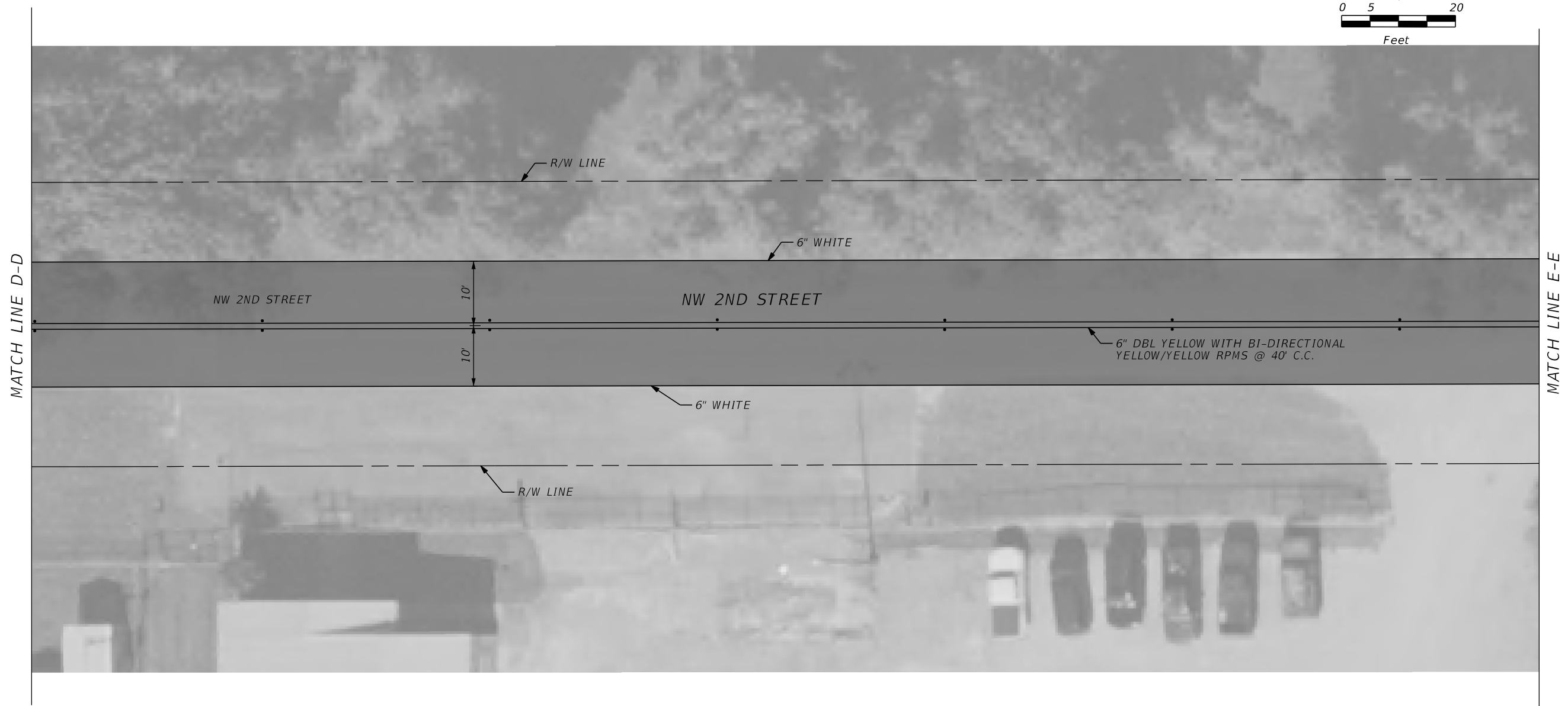
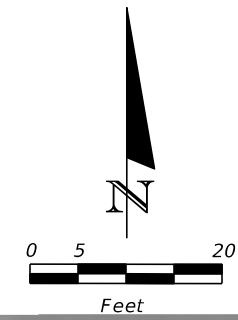
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					1ST AVE 2ND ST.	PALM BEACH			

NOT FOR CONSTRUCTION
FOR BIDDING PURPOSES ONLY



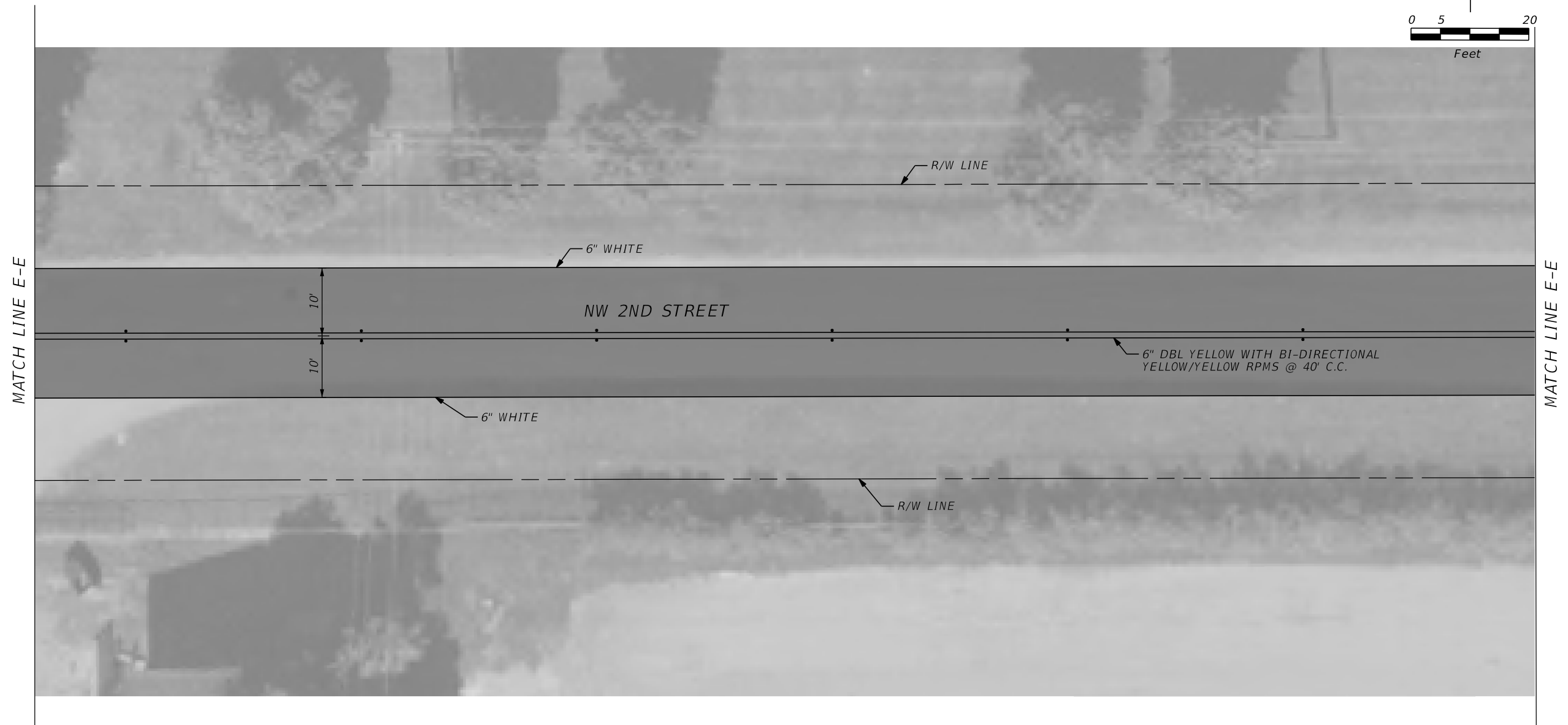
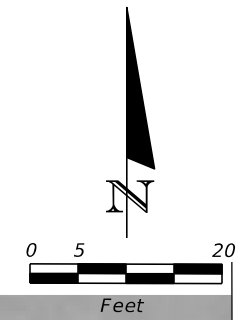
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					1ST AVE 2ND ST.	PALM BEACH			

NOT FOR CONSTRUCTION
FOR BIDDING PURPOSES ONLY



REVISIONS				CAP ENGINEERING, INC. 343 ALMERIA AVE CORAL GABLES, FL 33134 CERTIFICATE OF AUTHORIZATION NO. 27051	CITY OF SOUTH BAY			NW 2ND ST SIGNING AND PAVEMENT MARKINGS PLAN-3	SHEET NO. 22
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					1ST AVE 2ND ST.	PALM BEACH			

NOT FOR CONSTRUCTION
FOR BIDDING PURPOSES ONLY

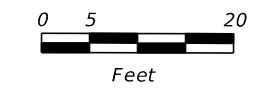


MATCH LINE E-E

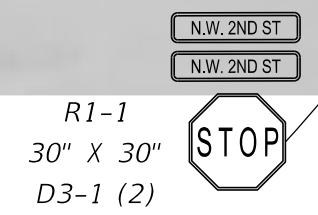
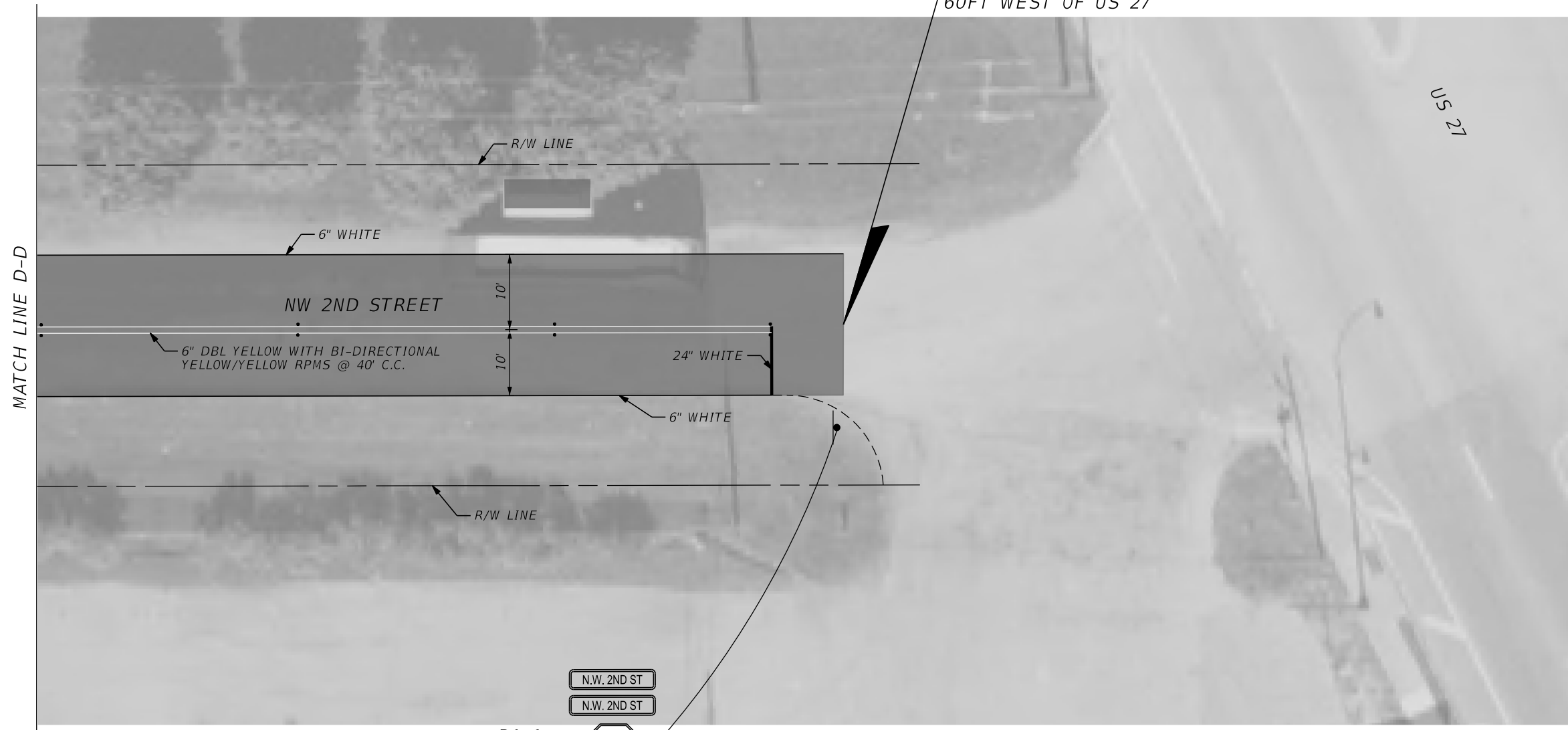
MATCH LINE E-E

REVISIONS				CAP ENGINEERING, INC. 343 ALMERIA AVE CORAL GABLES, FL 33134 CERTIFICATE OF AUTHORIZATION NO. 27051	CITY OF SOUTH BAY			NW 2ND ST SIGNING AND PAVEMENT MARKINGS PLAN-4	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		23
					1ST AVE 2ND ST.	PALM BEACH			

NOT FOR CONSTRUCTION
FOR BIDDING PURPOSES ONLY



END PROJECT
END SIGNING AND
PAVEMENT MARKINGS
60FT WEST OF US 27

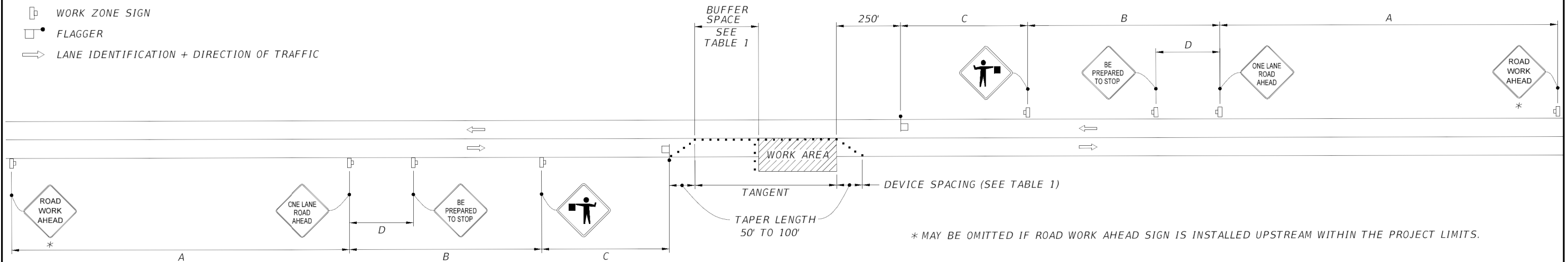


NOT FOR CONSTRUCTION
FOR BIDDING PURPOSES ONLY

REVISIONS				CAP ENGINEERING, INC. 343 ALMERIA AVE CORAL GABLES, FL 33134 CERTIFICATE OF AUTHORIZATION NO. 27051	CITY OF SOUTH BAY			NW 2ND ST SIGNING AND PAVEMENT MARKINGS PLAN-5	SHEET NO. 24
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					1ST AVE 2ND ST.	PALM BEACH			

SYMBOLS:

- WORK AREA
- CHANNELIZING DEVICE (SEE INDEX NO. 600)
- WORK ZONE SIGN
- FLAGGER
- LANE IDENTIFICATION + DIRECTION OF TRAFFIC



WITHOUT TEMPORARY RAISED RUMBLE STRIPS

GENERAL NOTES:

1. SPECIAL CONDITIONS MAY BE REQUIRED IN ACCORDANCE WITH THESE NOTES AND THE FOLLOWING SHEETS:

A. RAILROAD CROSSINGS:

- A. IF AN ACTIVE RAILROAD CROSSING IS LOCATED CLOSER TO THE WORK AREA THAN THE QUEUE LENGTH PLUS 300 FEET, EXTEND THE BUFFER SPACE AS SHOWN ON SHEET 3.
- B. IF THE QUEUING OF VEHICLES ACROSS AN ACTIVE RAILROAD CROSSING CANNOT BE AVOIDED, PROVIDE A UNIFORMED TRAFFIC CONTROL OFFICER OR FLAGGER AT THE HIGHWAY-RAIL GRADE CROSSING TO PREVENT VEHICLES FROM STOPPING WITHIN THE HIGHWAY-RAIL GRADE CROSSING, EVEN IF AUTOMATIC TRAIN WARNING DEVICES ARE IN PLACE.
- C. IF THE WORK AREA ENCLOSES ON THE CENTERLINE, USE THE LAYOUT FOR TEMPORARY LANE SHIFT TO SHOULDER ON SHEET 3 ONLY IF THE EXISTING PAVED SHOULDER WIDTH IS SUFFICIENT TO PROVIDE FOR AN 11' LANE BETWEEN THE WORK AREA AND THE EDGE OF EXISTING PAVED SHOULDER. REDUCE THE POSTED SPEED WHEN APPROPRIATE.

2. TEMPORARY RAISED RUMBLE STRIPS:

- A. USE WHEN BOTH OF THE FOLLOWING CONDITIONS ARE MET CONCURRENTLY:
- B. EXISTING POSTED SPEED IS 55 MPH OR GREATER;
- C. WORK DURATION IS GREATER THAN 60 MINUTES.
- D. USE A CONSISTENT STRIP COLOR THROUGHOUT THE WORK ZONE.
- E. PLACE EACH RUMBLE STRIP SET TRANSVERSELY ACROSS THE LANE AT LOCATIONS SHOWN.
- F. USE OPTION 1 OR OPTION 2 AS SHOWN ON SHEET 2. USE ONLY ONE OPTION THROUGHOUT WORK ZONE.

3. ADDITIONAL ONE-WAY CONTROL MAY BE PROVIDED BY THE FOLLOWING MEANS:

- A. FLAG-CARRYING VEHICLE;
- B. OFFICIAL VEHICLE;
- C. PILOT VEHICLES;
- D. TRAFFIC SIGNALS.

WHEN FLAGGERS ARE THE SOLE MEANS OF ONE-WAY CONTROL, THE FLAGGERS MUST BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES.

4. WHEN A SIDE ROAD INTERSECTS THE HIGHWAY WITHIN THE TTC ZONE, PLACE ADDITIONAL TTC DEVICES IN ACCORDANCE WITH OTHER APPLICABLE TCZ INDEXES.

5. THE TWO CHANNELIZING DEVICES DIRECTLY IN FRONT OF THE WORK AREA MAY BE OMITTED PROVIDED VEHICLES IN THE WORK AREA HAVE HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS OPERATING.

6. WHEN BUFFER SPACE CANNOT BE ATTAINED DUE TO GEOMETRIC CONSTRAINTS, USE THE GREATEST ATTAINABLE LENGTH, NOT LESS THAN 200 FT, FOR POSTED SPEEDS GREATER THAN 25 MPH.

7. ROAD WORK AHEAD AND THE BE PREPARED TO STOP SIGNS MAY BE OMITTED IF ALL OF THE FOLLOWING CONDITIONS ARE MET:

- A. WORK OPERATIONS ARE 60 MINUTES OR LESS.
- B. SPEED LIMIT IS 45 MPH OR LESS.
- C. THERE ARE NO SIGHT OBSTRUCTIONS TO VEHICLES APPROACHING THE WORK AREA FOR A DISTANCE EQUAL TO THE BUFFER SPACE SHOWN IN TABLE 1.
- D. VEHICLES IN THE WORK AREA HAVE HIGH-INTENSITY, ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS OPERATING.
- E. VOLUME AND COMPLEXITY OF THE ROADWAY HAS BEEN CONSIDERED.
- F. IF A RAILROAD CROSSING IS PRESENT, VEHICLES WILL NOT QUEUE ACROSS RAIL TRACKS.
- G. AFADS ARE NOT IN USE.

8. SEE INDEX 600 FOR GENERAL TCZ REQUIREMENTS AND ADDITIONAL INFORMATION.

9. AUTOMATED FLAGGER ASSISTANCE DEVICES (AFADS) MAY BE USED IN ACCORDANCE WITH SPECIFICATIONS SECTION 102, 990 AND THE APL VENDOR DRAWINGS.

TABLE 1									
POSTED SPEED	DEVICE SPACING				DISTANCE BETWEEN SIGNS				BUFFER SPACE
	MAXIMUM SPACING OF CONES OR TUBULAR MARKERS		MAXIMUM SPACING OF TYPE I OR TYPE II BARRICADES/PANELS/DRUMS						
	ON A TAPER	ON A TANGENT	ON A TAPER	ON A TANGENT	A	B	C	D	
25	20'	50'	20'	50'	200'	200'	200'	100'	155'
30	20'	50'	20'	50'	200'	200'	200'	100'	200'
35	20'	50'	20'	50'	200'	200'	200'	100'	250'
40	20'	50'	20'	50'	200'	200'	200'	100'	305'
45	20'	50'	20'	50'	350'	350'	350'	175'	360'
50	20'	50'	20'	100'	500'	500'	500'	250'	425'
55	20'	50'	20'	100'	2640'	1500'	1000'	500'	495'
60	20'	50'	20'	100'	2640'	1500'	1000'	500'	570'
65	20'	50'	20'	100'	2640'	1500'	1000'	500'	645'
70	20'	50'	20'	100'	2640'	1500'	1000'	500'	730'

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH THE AREA BETWEEN THE CENTERLINE AND A LINE 2' OUTSIDE THE EDGE OF TRAVEL WAY.

REVISIONS				CAP ENGINEERING, INC. 343 ALMERIA AVE CORAL GABLES, FL 33134 CERTIFICATE OF AUTHORIZATION NO. 27051	CITY OF SOUTH BAY			SHEET NO. 25
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					1ST AVE 2ND ST.	PALM BEACH		MAINTENANCE OF TRAFFIC

NOT FOR CONSTRUCTION FOR BIDDING PURPOSES ONLY