MATCHLINE - SEE SHEET CU-ST-53B

295 LF OF 24" RCP SD @ -0.17% SLOPE

STIN-S222
CB 4'X4'
N: 641234.85
E: 933489.22
GRATE EL: 3.90
INV (N): -2.00 15" RCP
4.00

STIN-S221
CB 4' DIA.
N: 641269.43
E: 933485.38
GRATE EL: 3.72
INV (S): -2.00 15" RCP
INV (E): -2.30 18" RCP
INV (W): -1.50 24" RCP
BOTT EL: -4.30

29 LF OF 18" RCP SD @ 0.00% SLOPE

STMH-S223
MH 4' ø
N: 641269.91
E: 933514.25
RIM EL: 3.96
INV (W): -2.30 18" RCP
INV (E): -0.75 15" RCP
INV (N): -2.53 18" RCP
BOTT EL: -4.53

STIN-S225
CB 5' DIA.
N: 641556.27
E: 933474.96
GRATE EL: 3.23
INV (E): -2.55 18" RCP
INV (N): -3.78 18" RCP
BOTT EL: -5.78

29 LF OF 18" RCP SD @ 0.00% SLOPE

REMOVE EX. & REPLACE W/
STIN-S218
CB 6' DIA.
N: 641601.65
E: 933470.90
GRATE EL: 3.01
INV (W): -3.62 24" RCP
INV (S): -3.78 18" RCP
INV (NE): -3.75 24" RCP
INV (E): 0.19 12" RCP (EXIST.)
BOTT EL: -5.78

390 LF OF 24" RCP SD @ 0.00% SLOPE

46 LF OF 18" RCP SD @ 0.00% SLOPE

21 LF OF 24" RCP SD @ 0.00% SLOPE

35 LF OF 15" RCP SD @ 0.00% SLOPE

REFER TO SHEET CU-ST-29C FOR PROFILE

EXIST. POLE

276 LF OF 18" RCP SD @ 0.00% SLOPE

14 LF OF 15" RCP SD @ 0.00% SLOPE

STIN-S220
CB 4' DIA.
N: 641269.43
E: 933527.78
GRATE EL: 3.73
INV (S): 0.00 15" RCP
INV (W): -0.75 15" RCP
BOTT EL: -2.75

32 LF OF 15" RCP SD @ 0.00% SLOPE

STIN-S219
CB 4'X4'
N: 641237.73
E: 933529.06
GRATE EL: 3.96
INV (N): 0.00 15" RCP
BOTT EL: -2.00

STIN-S224
MH 4' ø
N: 641545.65
E: 933502.45
GRATE EL: 3.30
INV (S): -2.53 18" RCP
INV (W): -2.55 18" RCP
INV (NE): -2.00 15" RCP
BOTT EL: -4.55

11 LF OF 15" RCP SD @ 0.00% SLOPE

REFER TO SHEET CU-ST-29C FOR PROFILE

STIN-S465
TYPE "C" DITCH BOTTOM
N: 641550.54
E: 933511.98
GRATE EL: 3.08
INV (SW): -2.00 15" RCP
BOTT EL: -4.00

REMOVE EX. & REPLACE W/
STIN-S334
CB 4' DIA.
N: 641620.93
E: 933479.67
GRATE EL: 2.93
INV (N): -2.46 18" RCP
INV (SW): -3.75 24" RCP
BOTT EL: -5.75

CLEAN EXISTING PIPE

238 LF OF 18" RCP SD @ 0.00% SLOPE

SW 10TH AVE.

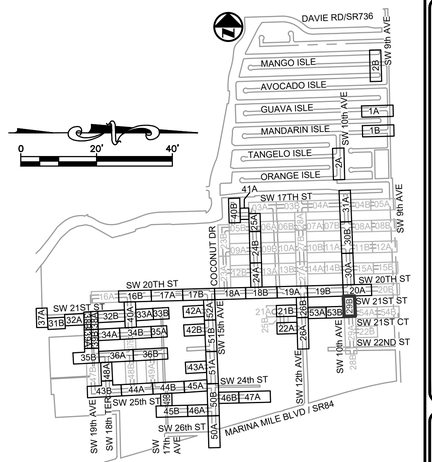
SW 21ST STREET

SW 20TH STREET

MATCHLINE - SEE SHEET CU-ST-20A

0+00 1700+00 1701+00 1702+00 1703+00 1704+00

PLAN
SCALE: 1"=20'



KEY MAP
N.T.S.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

NOTES:

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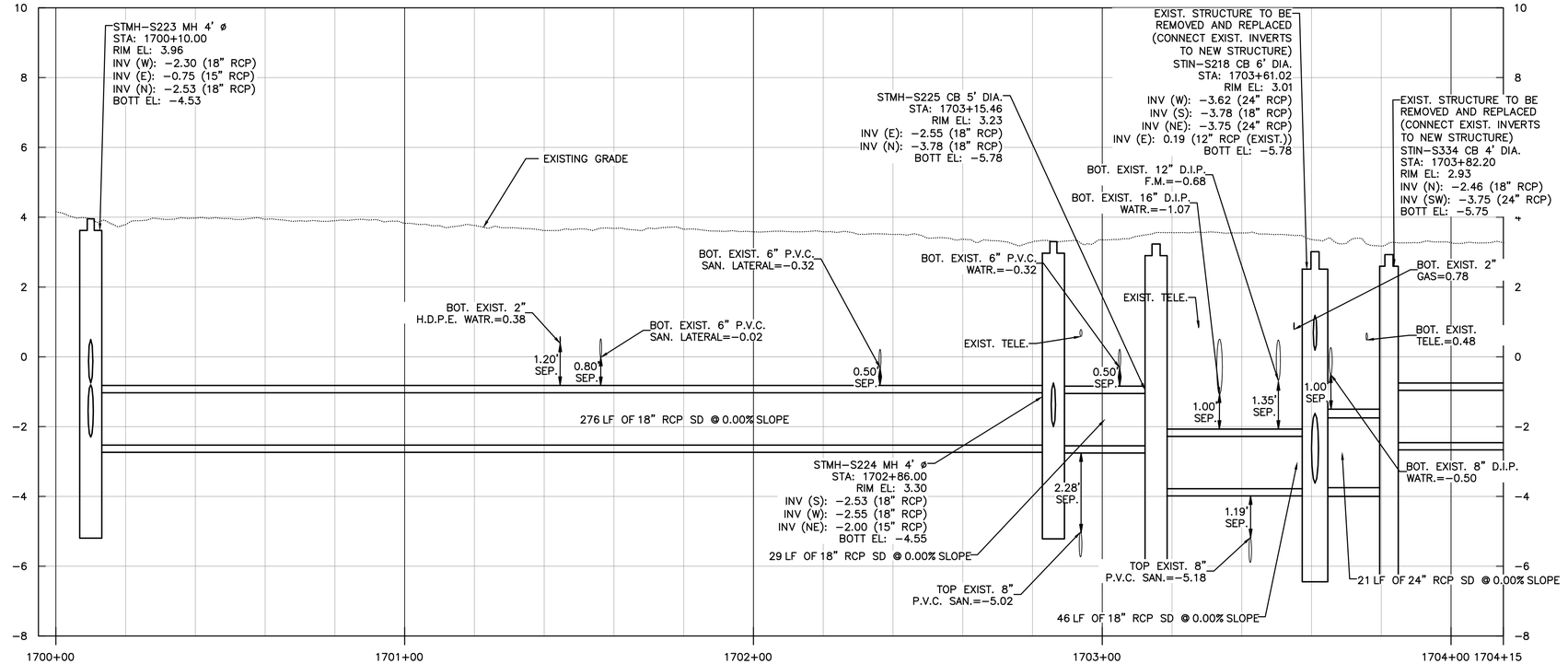

PROFILE
SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

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8/26/2021

CONSTRUCTION SET

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HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021
Certificate of Authorization No: 2771

CRAVEN • THOMPSON AND ASSOCIATES, INC.
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3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL: (954) 739-6400
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ENGINEER: PATRICK J. GIBNEY
REGISTRATION #: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

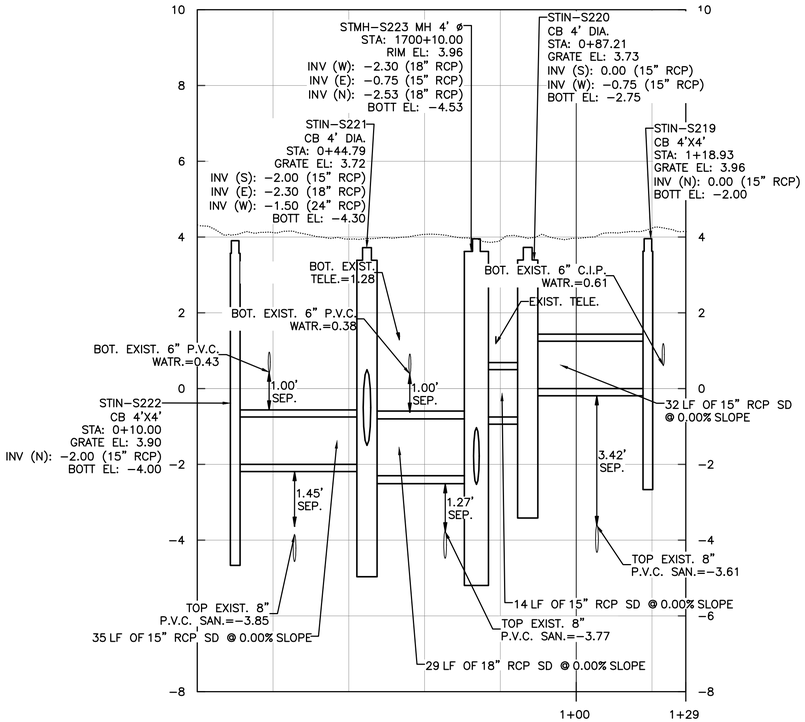
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

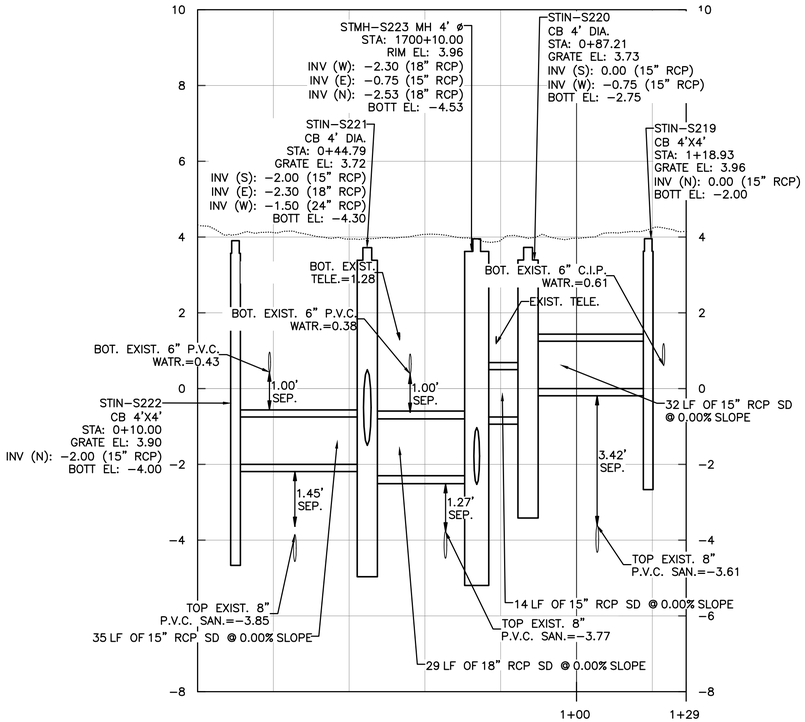
SHEET NO.
CU-ST-29B
TOTAL: 255
CAD FILE: 11868-CU-ST-A
DRAWING FILE NO. 4-142-42



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

S.W. 10TH AVENUE
(SEE SHEET CU-ST-29B)
STA: 1700+00



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

S.W. 10TH AVENUE
(SEE SHEET CU-ST-29B)
STA: 1700+00

Hazen

HAZEN AND SAWYER
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HOLLYWOOD, FLORIDA 33021

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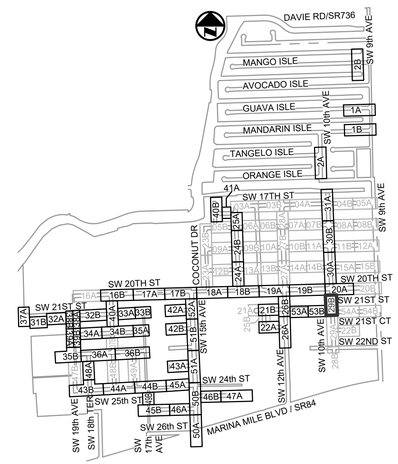

KEY MAP

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ENGINEER:
PATRICK J. GIBNEY
FL LIC. # 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	DESCRIPTION
		(CHK'D)	

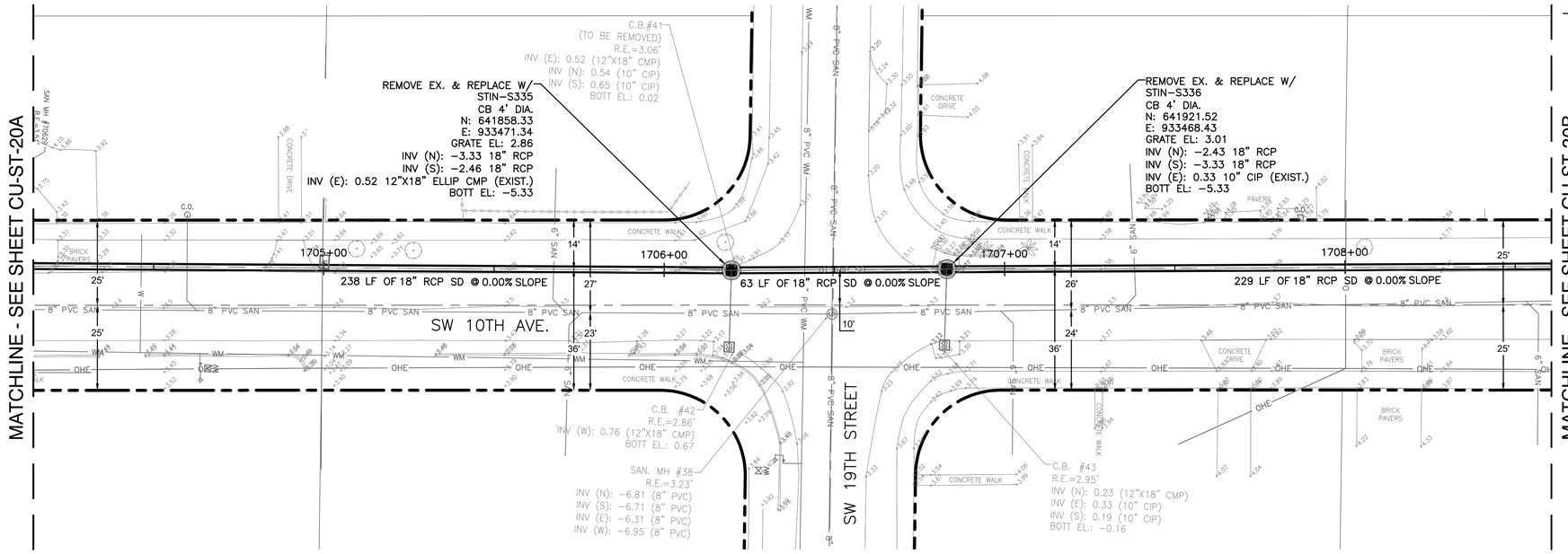
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-29C

TOTAL: 255

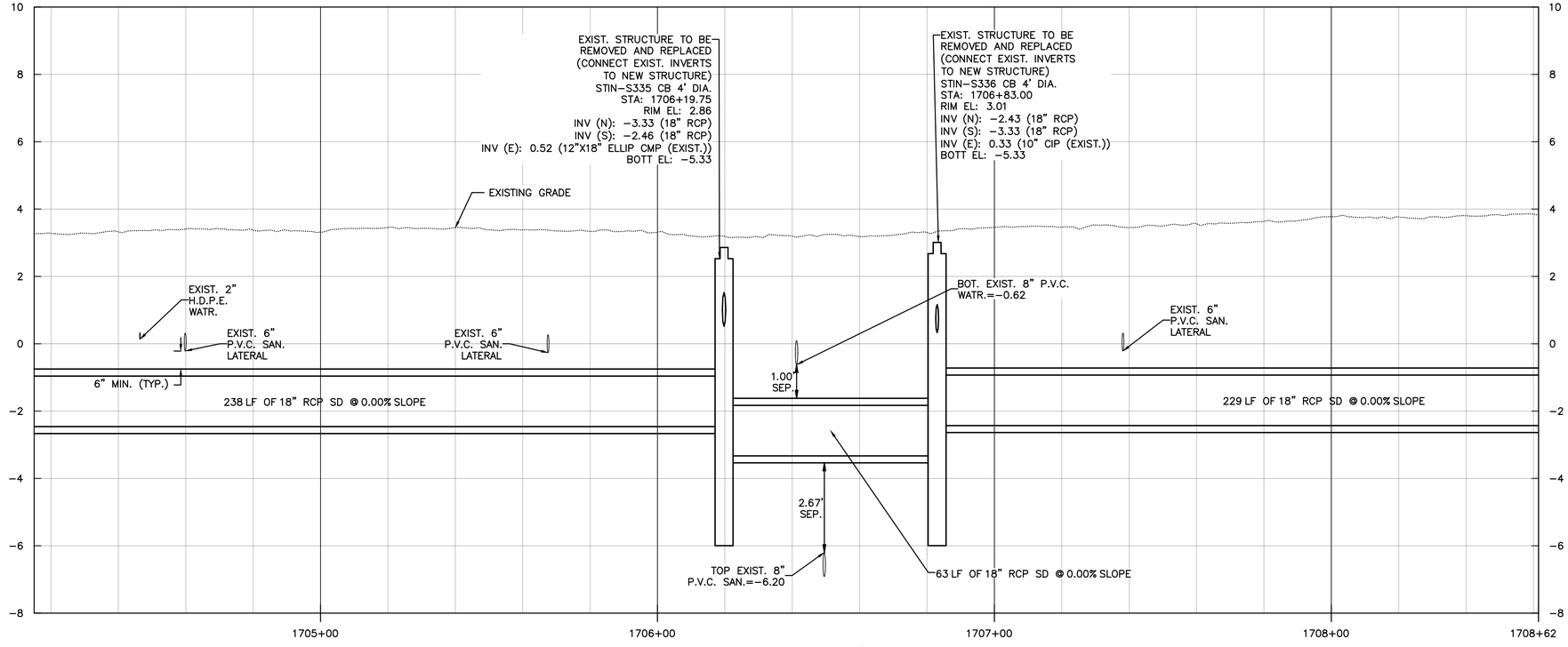
CAD FILE:
11868-CU-ST-A

DRAWING FILE NO.
4-142-42



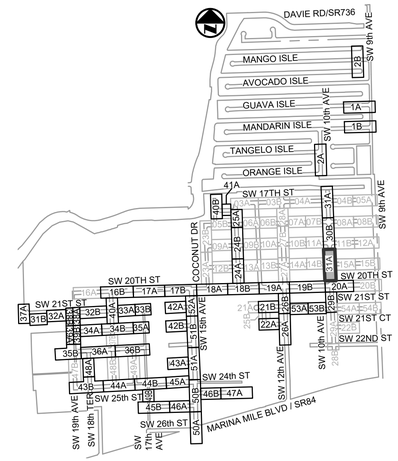
PLAN

SCALE: 1"=20'



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL



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Certificate of Authorization No: 2771

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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-30A

TOTAL: 255

CAD FILE:
11868-CU-ST-A

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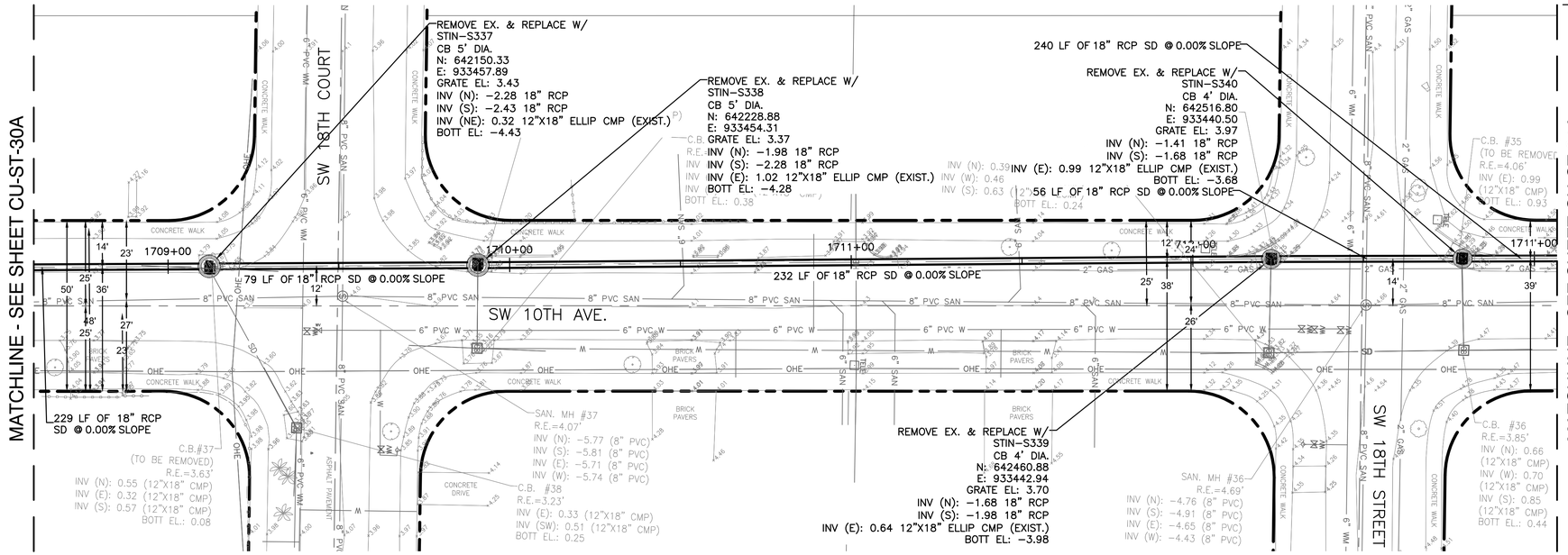
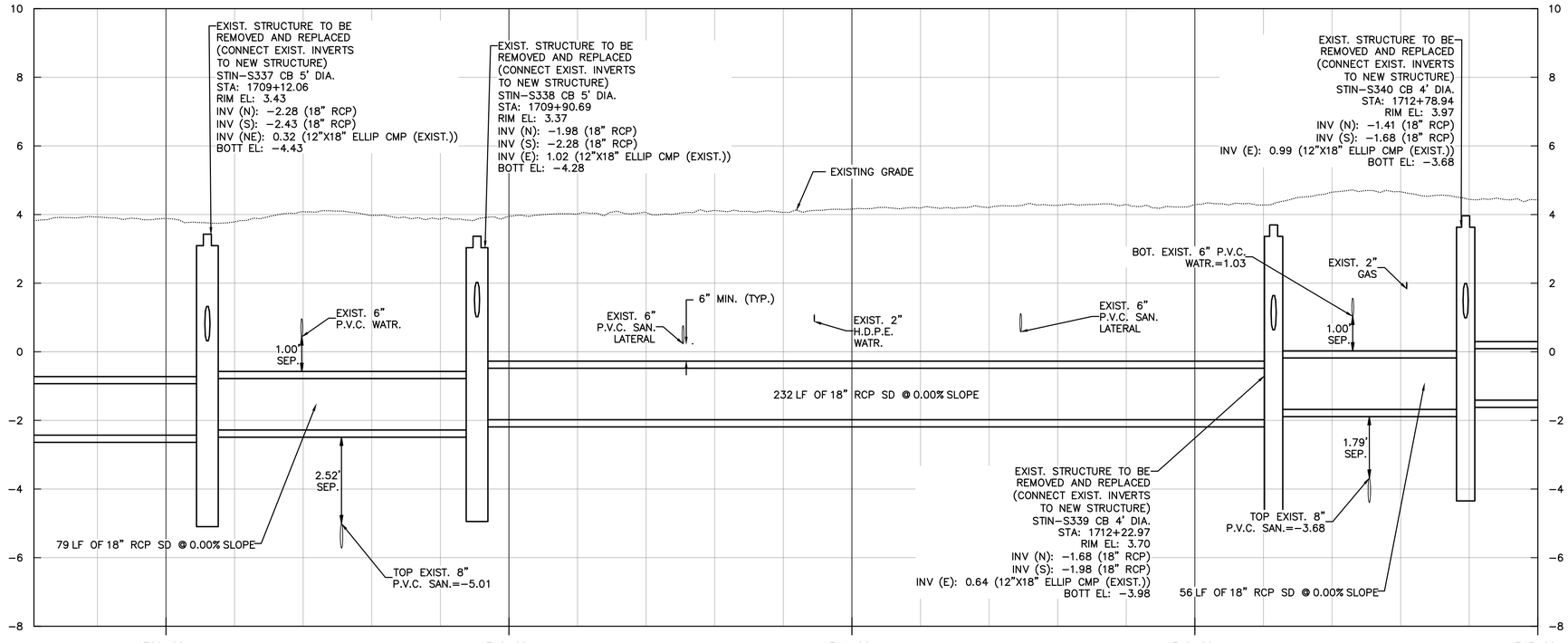
4-142-42



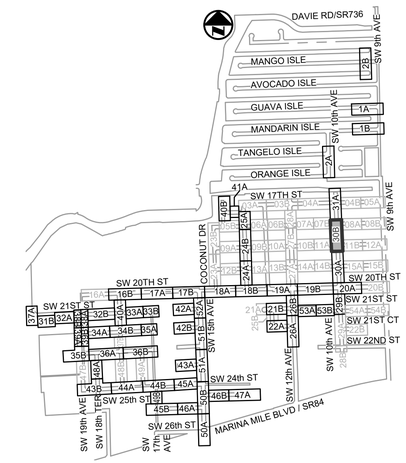
PLAN

SCALE: 1"=20'



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL



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FIELD BOOK: XXXX

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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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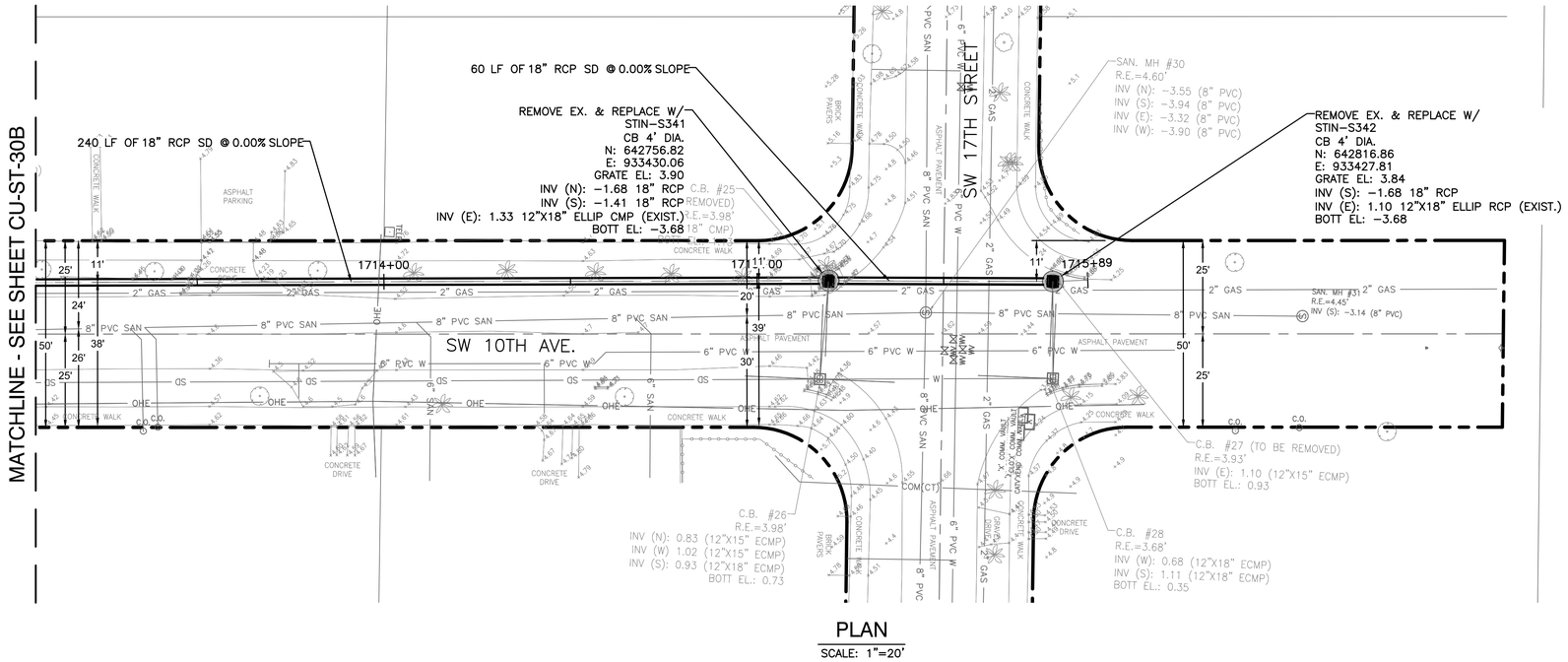
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-30B

TOTAL: 255

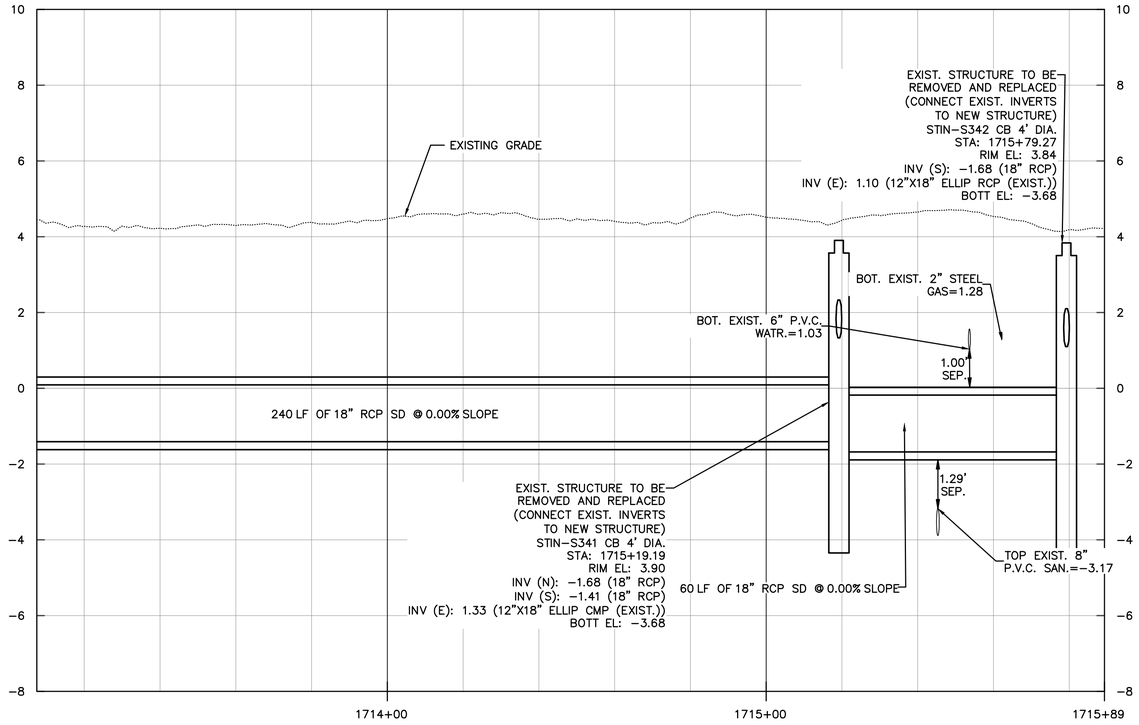
CAD FILE: 11868-CU-ST-A

DRAWING FILE NO. 4-142-42



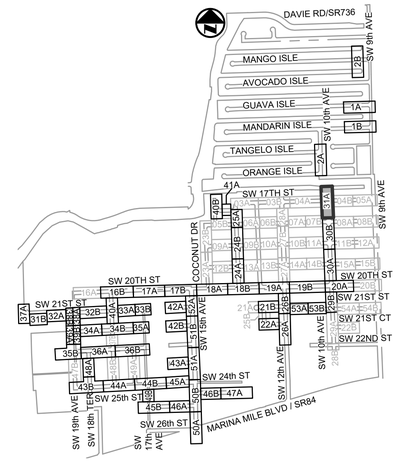
PLAN

SCALE: 1"=20'



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL



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PUBLIC WORKS DEPARTMENT
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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-31A

TOTAL: 255

CAD FILE: 11868-CU-ST-A

DRAWING FILE NO. 4-142-42

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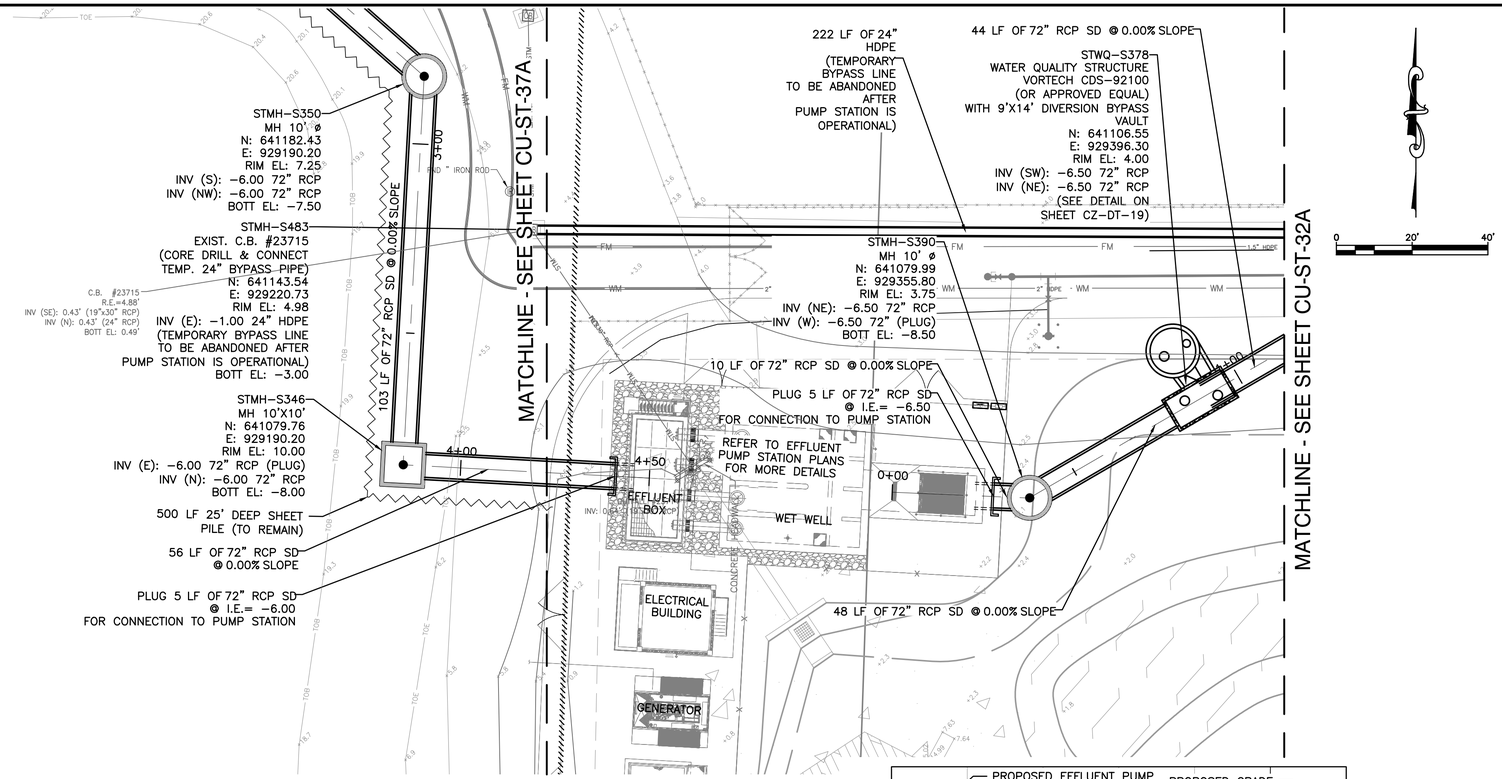

PLAN

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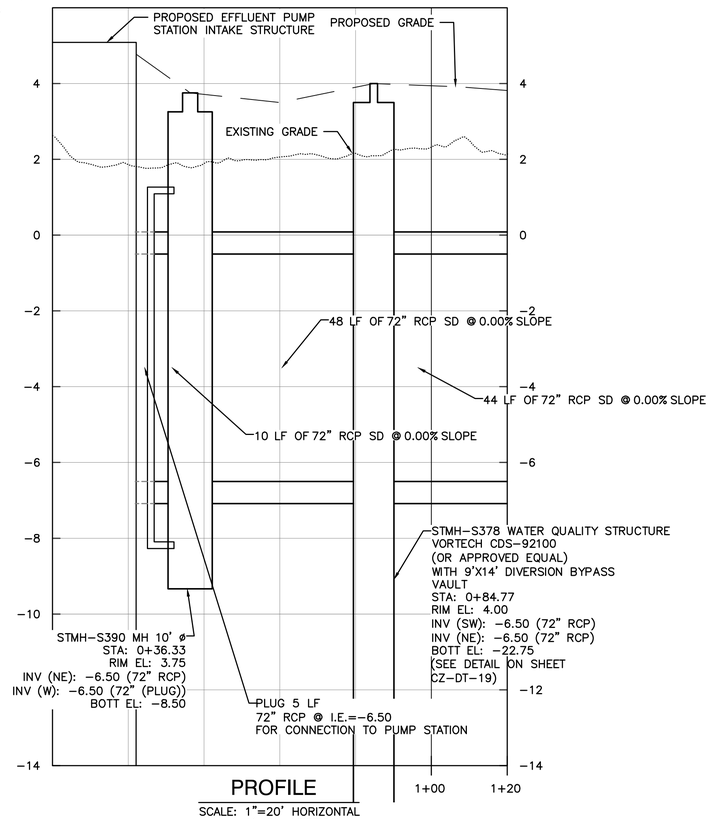
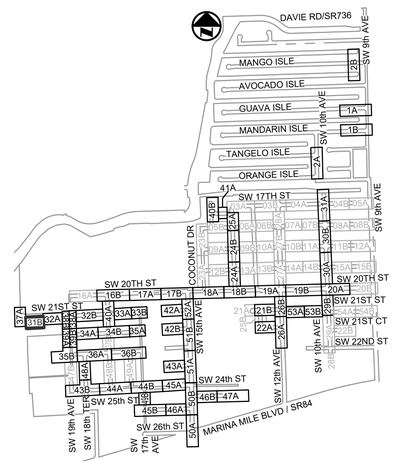


PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL



KEY MAP

N.T.S.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).
3. ALL AREAS DISTURBED DURING CONTSTRUCTION AT THE STORMWATER PRESERVE SHALL BE RESTORED TO SAME OR BETTER CONDITION, NOT LIMITED TO MUCK REPLACEMENT AND PLANTINGS ETC.
4. UPON INITIAL CONTRACTOR MOBILIZATION, CONTRACTOR IS TO PROVIDE TEMPORARY 24" HDPE BYPASS PIPING AND CONNECT TO THE EXISTING CATCH BASIN ON THE WEST SIDE OF THE PRESERVE AREA TO MAINTAIN THE PRESERVE AREA DRAINAGE TO THE OUTFALL AT THE NEW RIVER NORTH OF THE PRESERVE, PRIOR TO REMOVAL OF EXISTING HEADWALL & DRAINAGE STRUCTURE LOCATED NEAR THE PROPOSED PUMP STATION LOCATION IN THE NORTHWEST AREA OF THE PRESERVE.
5. DURING INSTALLATION OF 72" RCP FROM STRUCTURES S74 & S75, THE CONTRACTOR SHALL INSTALL A 24" SINGLE WALL HDPE PIPE UNDER PROPOSED 72" RCP TO MAINTAIN TEMPORARY BYPASS UNTIL CERTIFICATION OF PUMP STATION AND FINAL INLET TIE-IN INTO THE 72" RCP IS INSTALLED. AFTER CERTIFICATION AND ACCEPTANCE OF NEW PUMP STATION BY CITY, CONTRACTOR SHALL PLUG SOUTH INVERT OF S482 AND GROUT FILL TEMPORARY 24" BY-PASS PIPING FROM STRUCTURE S482 TO S361.

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

CONSTRUCTION SET

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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ENGINEER:
PATRICK J. GIBNEY
REG. No. 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHKD	DESCRIPTION

Patrick J. Gibney, State of Florida, Professional Engineer, License No. 49428. This item has been electronically signed and sealed by Patrick J. Gibney on the date indicated here using an SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

8/26/2021

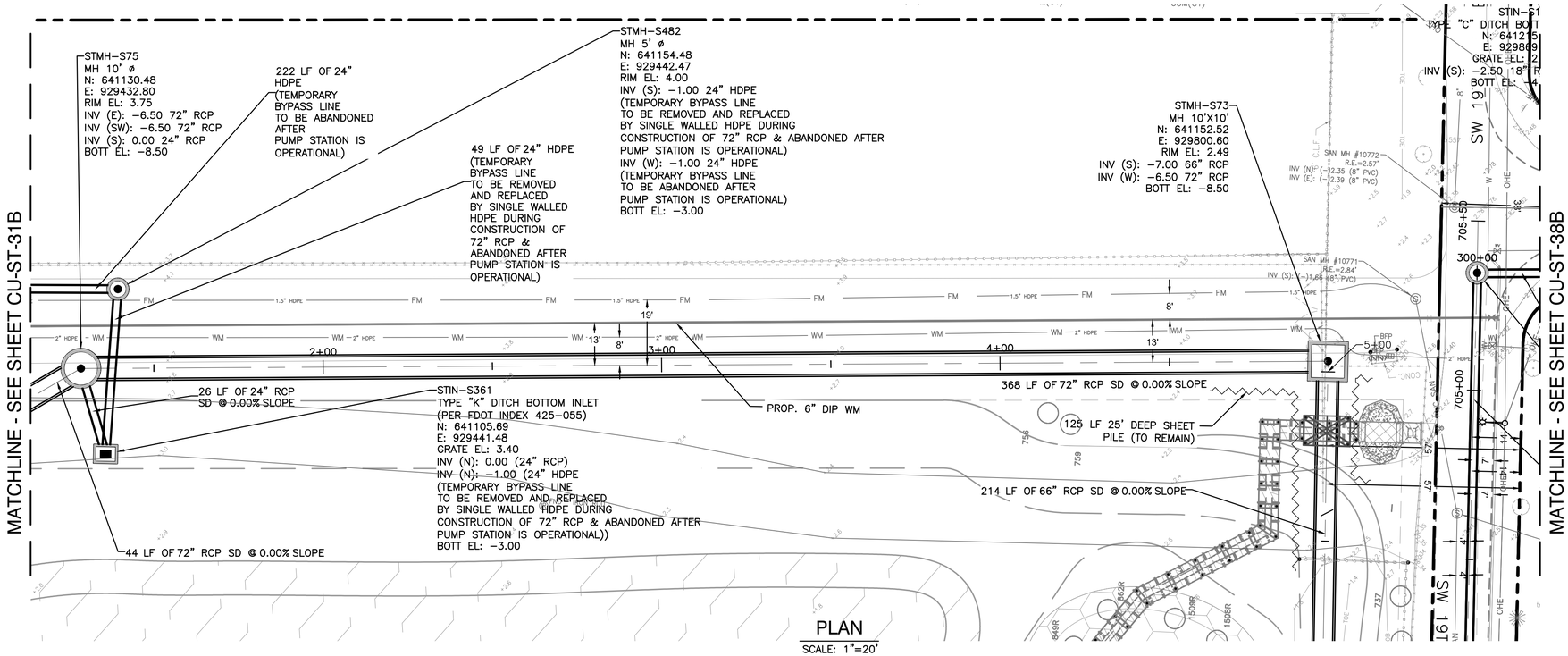
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

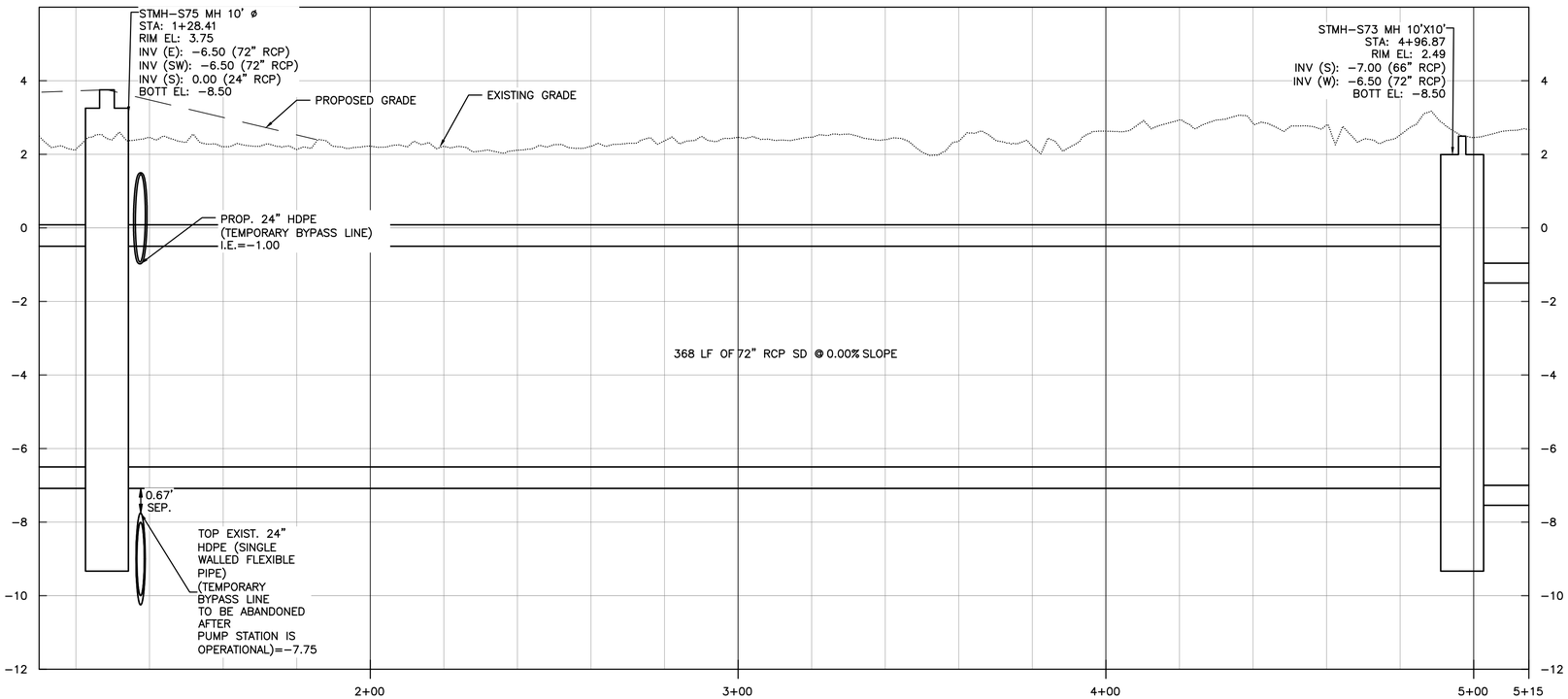
SHEET NO.
CU-ST-31B

TOTAL: 255

CAD FILE:
11868-CU-ST-B

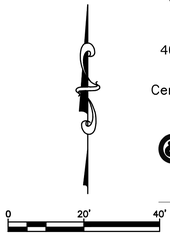
DRAWING FILE NO.
4-142-42

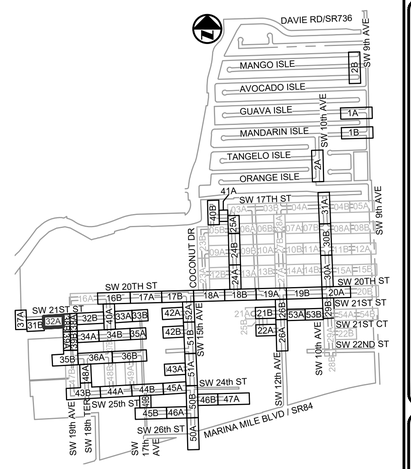




PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL





KEY MAP

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NOTES:

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3. ALL AREAS DISTURBED DURING CONTSTRUCTION AT THE STORMWATER PRESERVE SHALL BE RESTORED TO SAME OR BETTER CONDITION, NOT LIMITED TO MUCK REPLACEMENT AND PLANTINGS ETC.
4. UPON INITIAL CONTRACTOR MOBILIZATION, CONTRACTOR IS TO PROVIDE TEMPORARY 24" HDPE BYPASS PIPING AND CONNECT TO THE EXISTING CATCH BASIN ON THE WEST SIDE OF THE PRESERVE AREA TO MAINTAIN THE PRESERVE AREA DRAINAGE TO THE OUTFALL AT THE NEW RIVER NORTH OF THE PRESERVE, PRIOR TO REMOVAL OF EXISTING HEADWALL & DRAINAGE STRUCTURE LOCATED NEAR THE PROPOSED PUMP STATION LOCATION IN THE NORTHWEST AREA OF THE PRESERVE.
5. DURING INSTALLATION OF 72" RCP FROM STRUCTURES S74 & S73, THE CONTRACTOR SHALL INSTALL A 24" SINGLE WALL HDPE PIPE UNDER PROPOSED 72" RCP TO MAINTAIN TEMPORARY BYPASS UNTIL CERTIFICATION OF PUMP STATION AND FINAL INLET TIE–IN INTO THE 72" RCP IS INSTALLED. AFTER CERTIFICATION AND ACCEPTANCE OF NEW PUMP STATION BY CITY, CONTRACTOR SHALL PLUG SOUTH INVERT OF S482 AND GROUT FILL TEMPORARY 24" BY–PASS PIPING FROM STRUCTURE S482 TO S361.
6. ALL AREAS DISTURBED AT THE STORMWATER PRESERVE SHALL BE RESTORED TO EQUAL OR BETTER CONDITION, NOT LIMITED TO MUCK REPLACEMENT, BOARDWALKS AND PLANTINGS.
7. THE EXISTING BOARDWALK SHALL BE REMOVED & REPLACED FOR INSTALLATION OF 66" RCP. CONTRACTOR SHALL PROVIDE STRUCTURAL DESIGN & CALCULATIONS FOR DESIGN OF BOARDWALK FOUNDATION SPREAD FOOTING OVER PROPOSED PIPING. SCHEMATIC DESIGN SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL PROVIDE SIGNED & SEALED SHOP DRAWINGS DETAILING PROPOSED MODIFICATIONS TO BOARDWALK FOR CITY'S REVIEW & APPROVAL.
8. ANY MODIFICATIONS TO BOARDWALK AND / OR RAILINGS SHALL BE RESTORED TO EQUAL OR BETTER CONDITIONS INCLUDING ADA COMPLIANCE & FEATURES.

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8/26/2021

CONSTRUCTION SET

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

CRAVEN • THOMPSON AND ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
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FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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ENGINEER: PATRICK J. GIBNEY
REG. NO.: 49428
DATE: 01/22/2021

TEL: 954–987–0066
FAX: 954–987–2949

DRAWN BY: XXX
DESIGNED BY: XXX
DATE: 01/07/2019
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

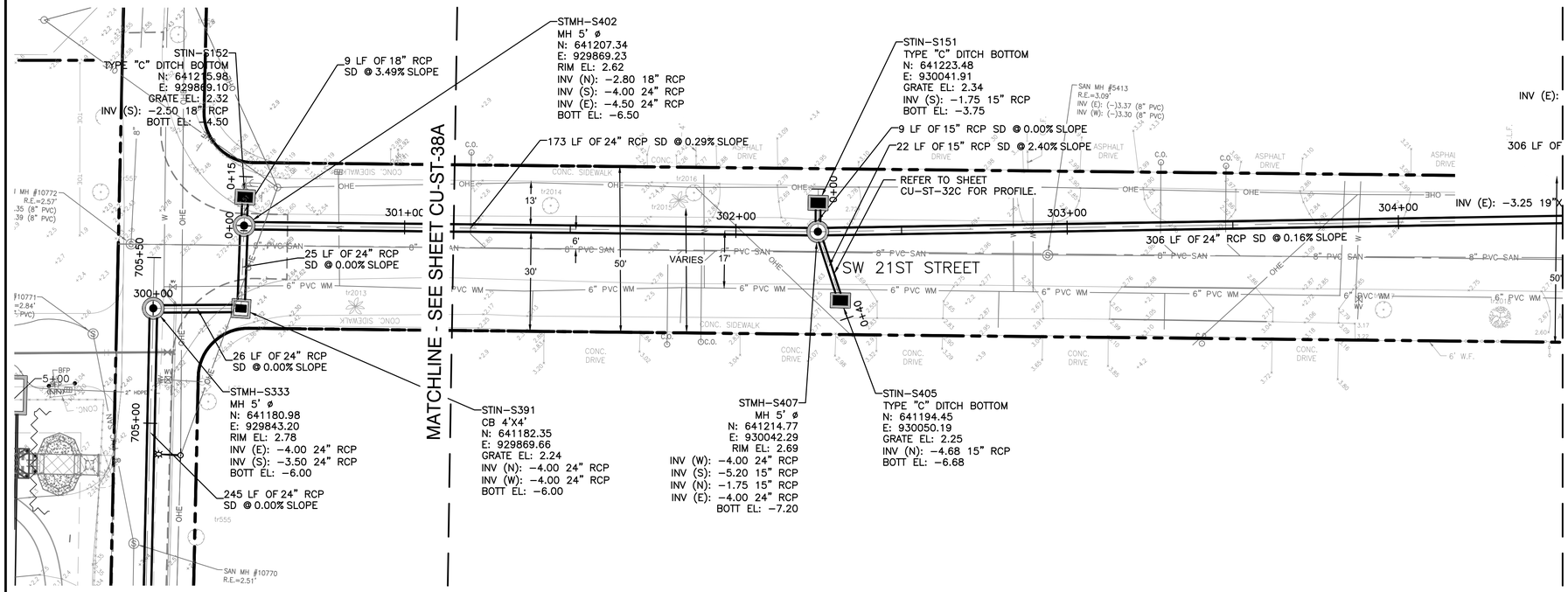
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-32A

TOTAL: 255

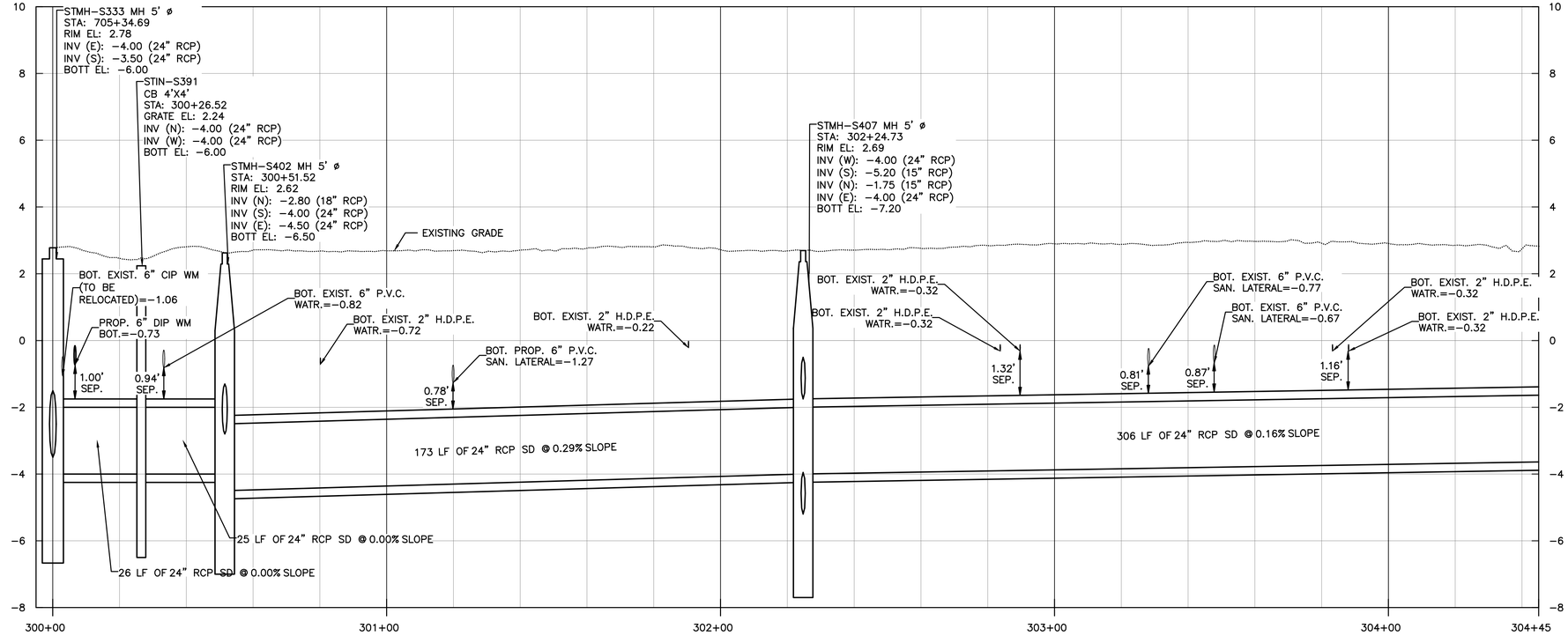
CAD FILE: 11868–CU–ST–B

DRAWING FILE NO. 4–142–42



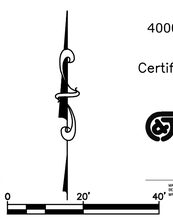
PLAN

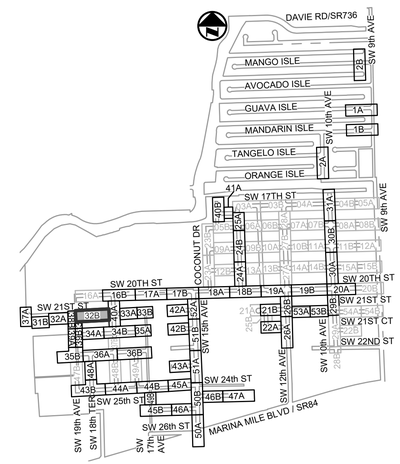
SCALE: 1"=20'



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL





KEY MAP

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CONSTRUCTION SET

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8/26/2021

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FAX: 954-987-2949

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SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

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NO.	DATE	BY	CHK'D	DESCRIPTION

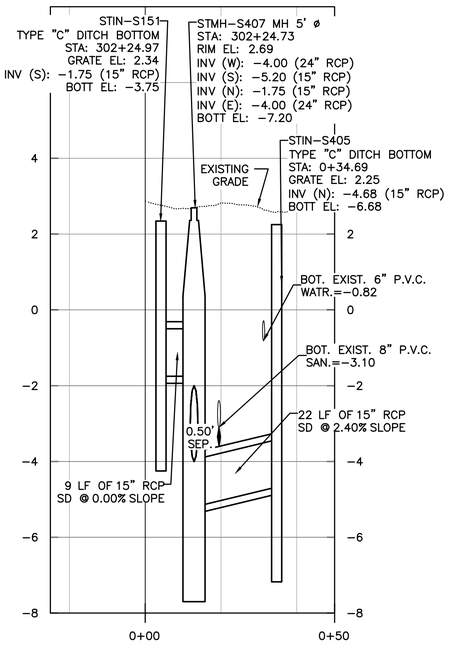
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-32B

TOTAL: 255

CAD FILE: 11868-CU-ST-B

DRAWING FILE NO. 4-142-42



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

S.W. 21ST STREET
(SEE SHEET CU-ST-32B)
STA: 302+25

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
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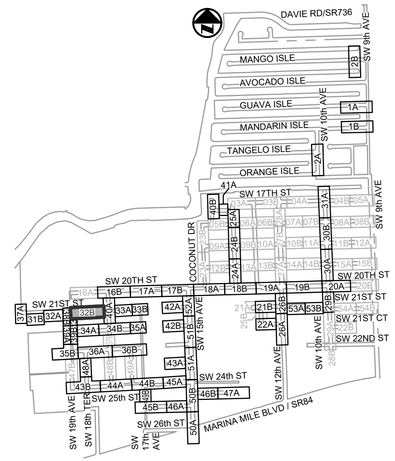

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RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-32C

TOTAL: 255

CAD FILE: 11868-CU-ST-B

DRAWING FILE NO. 4-142-42

MATCHLINE - SEE SHEET CU-ST-40A

39 LF OF 30" RCP SD @ 1.29% SLOPE

STIN-S408
CB 5' DIA.
N: 641236.11
E: 930347.04
GRATE EL: 2.40
INV (E): -3.25 19"X30" ELLIPTICAL RCP (24" EQV.)
INV (W): -3.50 24" RCP
INV (S): -2.68 15" RCP
BOTT EL: -5.50

32 LF OF 15" RCP SD @ 0.00% SLOPE

306 LF OF 24" RCP SD @ 0.16% SLOPE

REFER TO SHEET CU-ST-33C FOR PROFILE.

STIN-S411
TYPE "C" DITCH BOTTOM
N: 641205.07
E: 930355.47
GRATE EL: 2.37
INV (N): -2.68 15" RCP
BOTT EL: -4.68

SAN MH #51527
R.E.=3.17'
INV (N): (-)4.49 (8" PVC)
INV (S): (-)4.54 (8" PVC)
INV (E): (-)3.28 (8" PVC)
INV (W): (-)4.38 (8" PVC)

228 LF OF 24" RCP SD @ 0.00% SLOPE

32 LF OF 18" RCP SD @ 0.00% SLOPE

STIN-S148
CB 5' DIA.
N: 641239.59
E: 930417.36
GRATE EL: 2.39
INV (E): -3.00 18" RCP
INV (W): -3.05 18" RCP
INV (S): -5.49 18" RCP
BOTT EL: -7.49

198 LF OF 18" RCP SD @ 0.00% SLOPE

30 LF OF 18" RCP SD @ 0.00% SLOPE

REFER TO SHEET CU-ST-33C FOR PROFILE.

STMH-S141
MH 5' ø
N: 641237.33
E: 930385.79
RIM EL: 2.79
INV (N): -3.25 24" RCP
INV (W): -2.75 19"X30" ELLIPTICAL RCP (24" EQV.)
INV (E): -3.05 18" RCP
BOTT EL: -5.25

STIN-S147
TYPE "C" DITCH BOTTOM
N: 641209.62
E: 930420.71
GRATE EL: 2.32
INV (N): -5.49 18" RCP
BOTT EL: -7.49

SAN MH #5537
R.E.=3.21'
INV (E): (-)2.51 (8" PVC)
INV (W): (-)3.18 (8" PVC)

210 LF OF 18" RCP SD @ 0.10% SLOPE

STIN-S150
CB 5' DIA.
N: 641247.51
E: 930614.71
GRATE EL: 2.73
INV (E): -3.20 18" RCP
INV (W): -3.00 18" RCP
INV (S): -0.81 18" RCP
BOTT EL: -5.20

32 LF OF 18" RCP SD @ 0.00% SLOPE

STIN-S145
TYPE "C" DITCH BOTTOM
N: 641215.03
E: 930614.83
GRATE EL: 2.72
INV (N): -0.81 18" RCP
BOTT EL: -2.81

REFER TO SHEET CU-ST-33C FOR PROFILE.

SW 18TH AVENUE

SW 21ST STREET

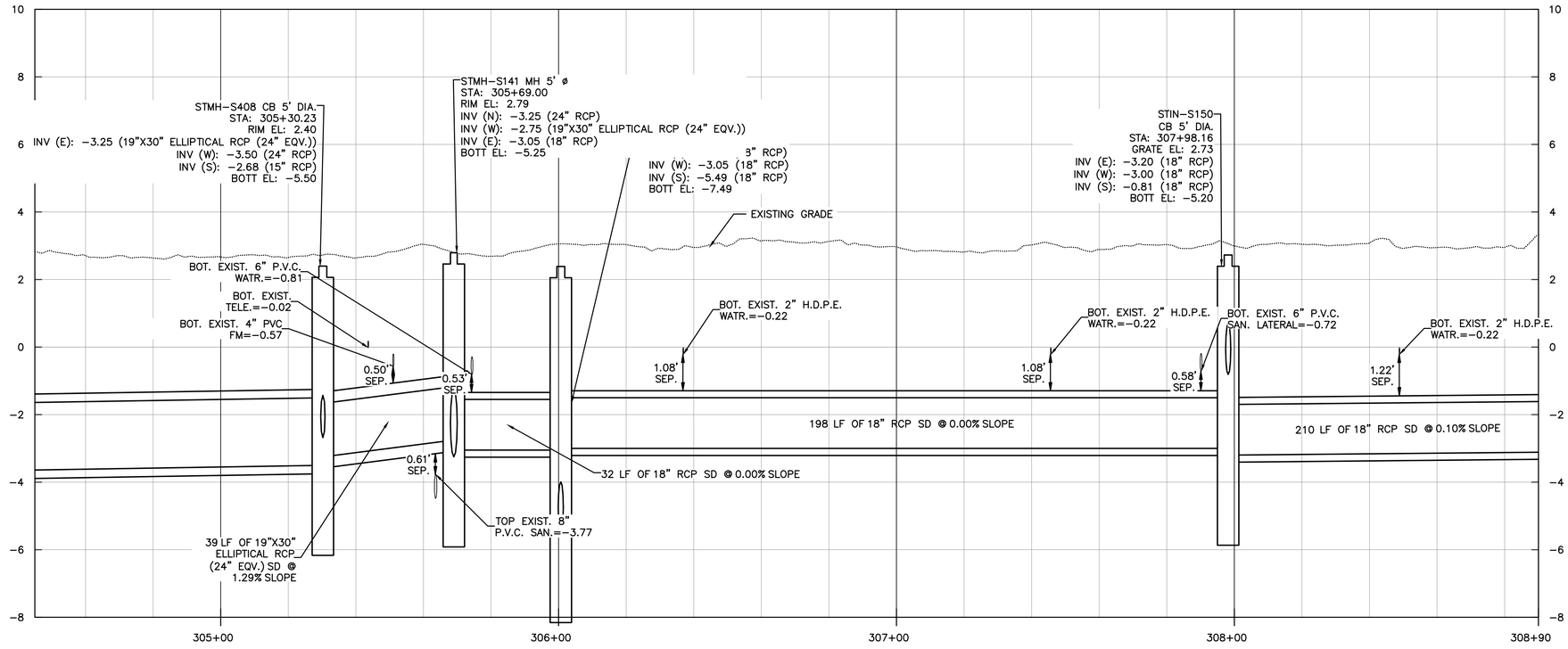
MATCHLINE - SEE SHEET CU-ST-32B

MATCHLINE - SEE SHEET CU-ST-33B

MATCHLINE - SEE SHEET CU-ST-40A

PLAN

SCALE: 1"=20'



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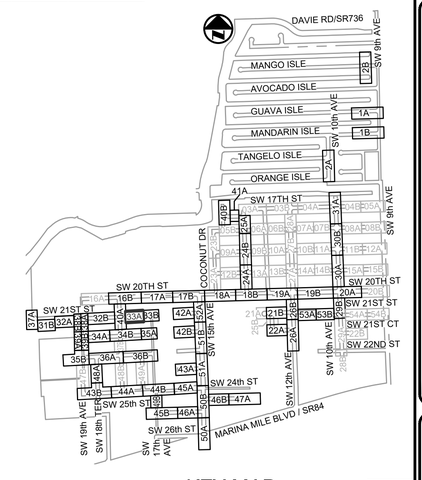

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RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-33A

TOTAL: 255

CAD FILE: 11868-CU-ST-B

DRAWING FILE NO. 4-142-42

CAM #22-0947
Exhibit 1C
p. 1526
Page 10 of 85

PLOT DATE: 8/26/2021 1:47 PM BY: MRODRIGUEZ
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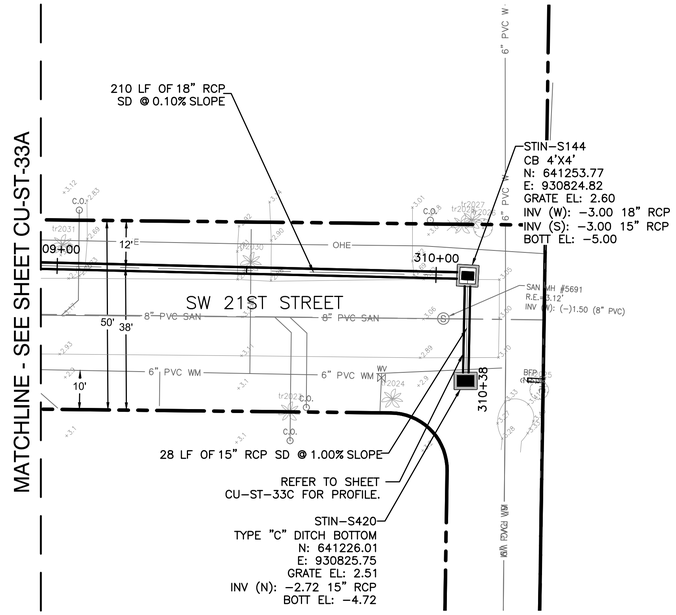
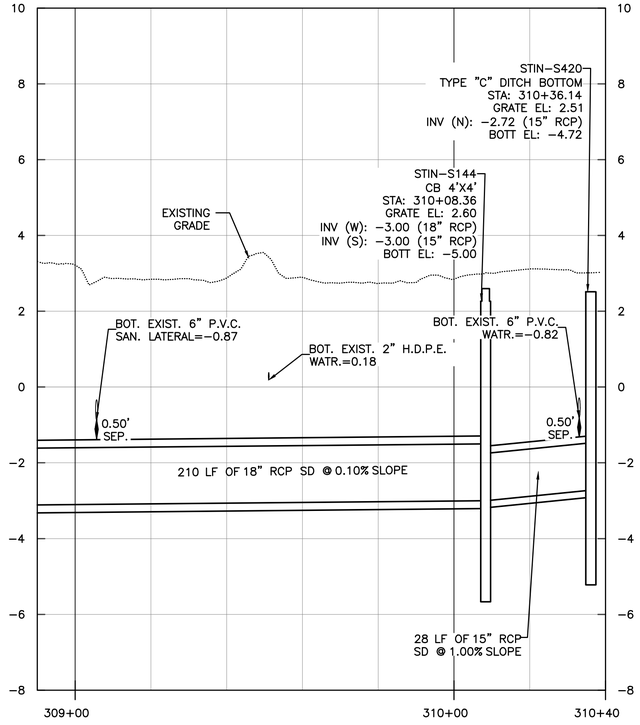


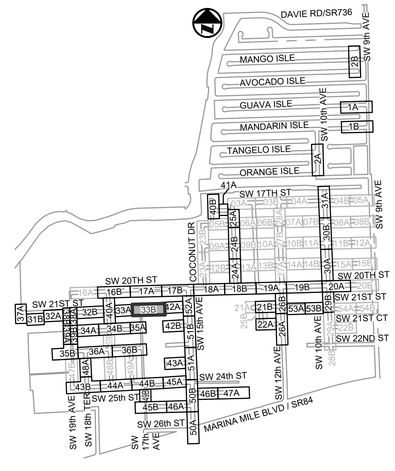
PLAN

SCALE: 1"=20'



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL



KEY MAP

N.T.S.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).

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Patrick J. Gibney, State of Florida, Professional Engineer, License No. 49428. This item has been electronically signed and sealed by Patrick J. Gibney on the date indicated here using an SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

8/26/2021

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ENGINEER: PATRICK J. GIBNEY
REG. No.: 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
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FIELD BOOK: XXXX

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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-33B

TOTAL: 255

CAD FILE: 11868-CU-ST-B

DRAWING FILE NO. 4-142-42

CAM #22-0947
Exhibit 1C
p. 1527

PLOT DATE: 8/26/2021 1:48 PM BY: MRODRIGUEZ
XREFs= .\11868XREFGRAD,.\11868XREF-PROP-PLAN-B,.\11868SURV,.\11868topo,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFNOTES,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFOUT,.\11868TOPO,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master 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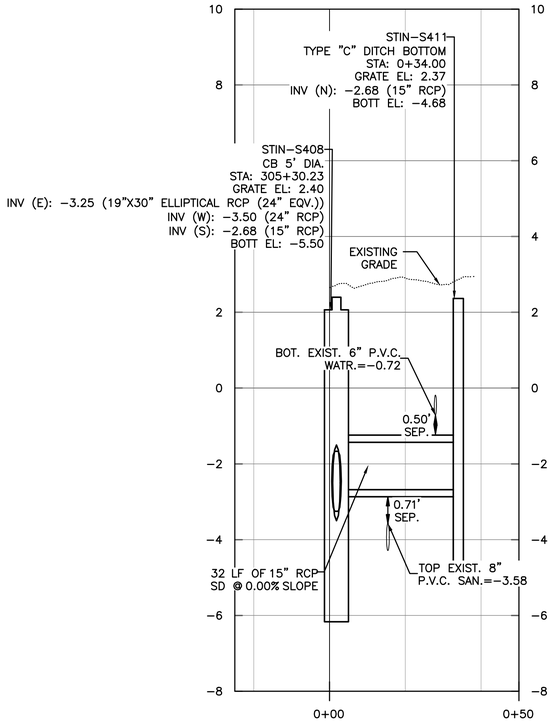
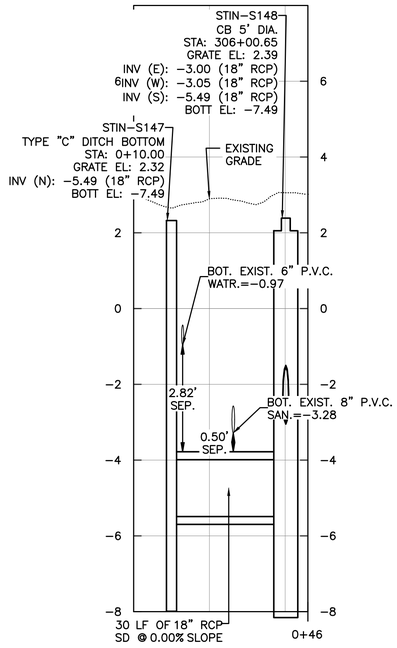


PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

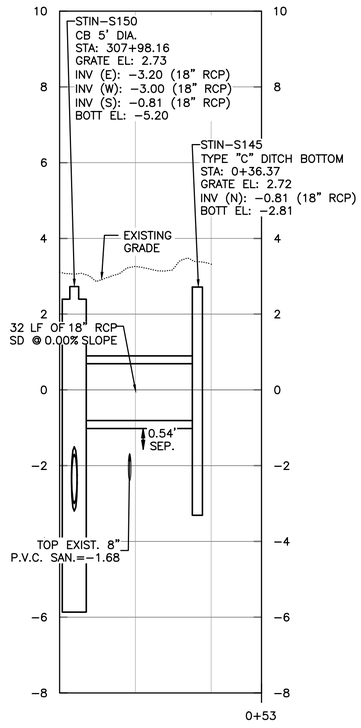
S.W. 21ST STREET
(SEE SHEET CU-ST-33A)
STATION: 305+20



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

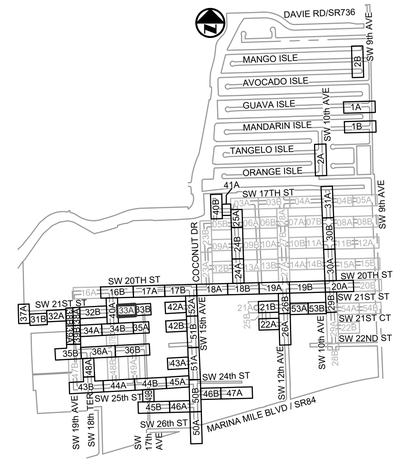
S.W. 21ST STREET
(SEE SHEET CU-ST-33A)
STATION: 306+00



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

S.W. 21ST STREET
(SEE SHEET CU-ST-33A)
STATION: 308+00



KEY MAP

N.T.S.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).

Always call 811 two full business days before you dig to have underground utilities located and marked.
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CONSTRUCTION SET

Patrick J. Gibney, State of Florida, Professional Engineer, License No. 49428. This item has been electronically signed and sealed by Patrick J. Gibney on the date indicated here using an SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

8/26/2021

Hazen

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4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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ENGINEER: PATRICK J. GIBNEY
REG. No.: 49428
DATE: 01/22/2021

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DRAWN BY:	DATE:	SCALE:
XXX	01/07/2019	1"=20'
DESIGNED BY:	CHECKED BY:	FIELD BOOK:
XXX	XXX	XXXX

CITY OF FORT LAUDERALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-33C

TOTAL: 255

CAD FILE:
11868-CU-ST-B

DRAWING FILE NO.
4-142-42

9/20/2022 9:05 AM

PLOT DATE: 8/26/2021 1:50 PM BY: MRODRIGUEZ XREFs= .\11868XREFGRAD,.\11868XREF-PROP-PLAN-B,.\11868SURV,.\11868topo,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFNOTES,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master 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MATCHLINE - SEE SHEET CU-ST-39B

MATCHLINE - SEE SHEET CU-ST-39B

MATCHLINE - SEE SHEET CU-ST-34B

SW 19TH AVENUE

SW 22ND STREET

STIN-S323
TYPE "C" DITCH BOTTOM
STA: 400+07.03
GRATE EL: 1.14
INV (E): -2.00 (24" RCP)
BOTT EL: -4.00

27 LF OF 24" RCP SD @ 2.48% SLOPE

STMH-S322 MH 6' ø
STA: 400+33.66
RIM EL: 2.87
INV (W): -1.34 (24" RCP)
INV (E): -3.70 (24" RCP)
INV (N): -3.50 (24" RCP)
INV (S): -1.50 (24" RCP)
BOTT EL: -5.70

245 LF OF 24" RCP SD @ 0.00% SLOPE

STIN-S323
TYPE "C" DITCH BOTTOM
N: 640928.49
E: 929825.71
GRATE EL: 1.14
INV (E): -2.00 24" RCP
BOTT EL: -4.00

STIN-S322
MH 6' ø
N: 640936.39
E: 929851.14
GRATE EL: 2.87
INV (W): -1.34 24" RCP
INV (E): -3.70 24" RCP
INV (N): -3.50 24" RCP
INV (S): -1.50 24" RCP
BOTT EL: -5.70

246 LF OF 24" RCP SD @ 0.00% SLOPE

40 LF OF 24" RCP SD @ 0.50% SLOPE

STIN-S424
TYPE "C" DITCH BOTTOM
N: 640913.97
E: 929892.01
GRATE EL: 2.15
INV (N): -1.83 12"X18" ELLIP. RCP (15" EQV)
BOTT EL: -3.83

24 LF OF 18" RCP SD @ 0.00% SLOPE

STIN-S305
TYPE "C" DITCH BOTTOM
N: 640948.57
E: 929891.26
GRATE EL: 2.09
INV (S): -1.75 15" RCP
BOTT EL: -3.75

10 LF OF 15" RCP SD @ 0.00% SLOPE

STMH-S423 MH 5' ø
N: 640938.11
E: 929891.48
RIM EL: 2.57
INV (W): -3.50 24" RCP
INV (E): -3.74 24" RCP
INV (S): -1.83 12"X18" ELLIP. RCP (15" EQV)
INV (N): -1.75 15" RCP
BOTT EL: -5.74

145 LF OF 24" RCP SD @ 0.09% SLOPE

REFER TO SHEET CU-ST-34C FOR PROFILE.

STMH-S95
MH 5' ø
N: 640944.33
E: 930036.71
RIM EL: 2.63
INV (W): -3.87 24" RCP
INV (N): -1.61 18" RCP
INV (E): -3.87 24" RCP
INV (S): -2.25 15" RCP
BOTT EL: -5.87

STIN-S307
TYPE "C" DITCH BOTTOM
N: 640954.41
E: 930036.52
GRATE EL: 2.17
INV (S): -1.61 18" RCP
BOTT EL: -3.61

10 LF OF 18" RCP SD @ 0.00% SLOPE

SAN MH #5841
R.E.=2.92'
INV (E): (-)3.97 (8" PVC)
INV (W): (-)3.89 (8" PVC)

324 LF OF 24" RCP SD @ 0.01% SLOPE

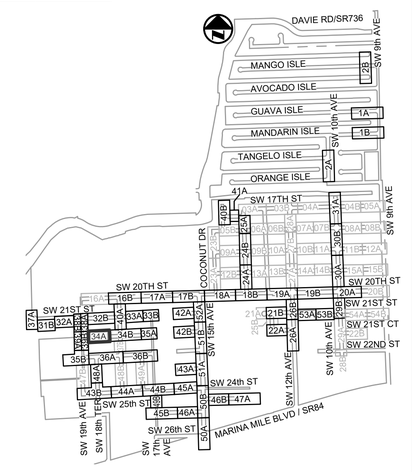
REFER TO SHEET CU-ST-34C FOR PROFILE.

STIN-S426
TYPE "C" DITCH BOTTOM
N: 640921.51
E: 930037.06
GRATE EL: 2.25
INV (N): -2.25 15" RCP
BOTT EL: -4.25

23 LF OF 15" RCP SD @ 0.00% SLOPE

PLAN
SCALE: 1"=20'

0 20' 40'



KEY MAP
N.T.S.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).

STIN-S323
TYPE "C" DITCH BOTTOM
STA: 400+07.03
GRATE EL: 1.14
INV (E): -2.00 (24" RCP)
BOTT EL: -4.00

STMH-S322 MH 6' ø
STA: 400+33.66
RIM EL: 2.87
INV (W): -1.34 (24" RCP)
INV (E): -3.70 (24" RCP)
INV (N): -3.50 (24" RCP)
INV (S): -1.50 (24" RCP)
BOTT EL: -5.70

BOT. EXIST. 6" CIP WM (TO BE RELOCATED)=-1.55

PROP. 6" DIP WM BOT.=-1.22

0.50' SEP.

0.61' SEP.

TOP EXIST. 8" P.V.C. SAN.=-2.30

27 LF OF 24" RCP SD @ 2.48% SLOPE

STMH-S423 MH 5' ø
STA: 400+74.04
RIM EL: 2.57
INV (W): -3.50 (24" RCP)
INV (E): -3.74 (24" RCP)
INV (S): -1.83 (12"X18" ELLIP. RCP (15" EQV))
INV (N): -1.75 (15" RCP)
BOTT EL: -5.74

EXISTING GRADE

BOT. EXIST. 6" P.V.C. SAN. LATERAL=-1.12

6" MIN. (TYP.)

145 LF OF 24" RCP SD @ 0.09% SLOPE

40 LF OF 24" RCP SD @ 0.50% SLOPE

STMH-S95 MH 5' ø
STA: 402+19.39
RIM EL: 2.63
INV (W): -3.87 (24" RCP)
INV (N): -1.61 (18" RCP)
INV (E): -3.87 (24" RCP)
INV (S): -2.25 (15" RCP)
BOTT EL: -5.87

BOT. EXIST. 2" H.D.P.E. WATR.=-0.57

BOT. EXIST. 2" H.D.P.E. WATR.=-0.52

12" MIN. (TYP.)

BOT. EXIST. 2" H.D.P.E. WATR.=-0.57

BOT. EXIST. 2" H.D.P.E. WATR.=-0.67

BOT. EXIST. 6" P.V.C. SAN. LATERAL=-0.97

324 LF OF 24" RCP SD @ 0.01% SLOPE

BOT. EXIST. 6" P.V.C. SAN. LATERAL=-0.97

BOT. EXIST. 2" H.D.P.E. WATR.=-0.42

BOT. EXIST. 6" P.V.C. SAN. LATERAL=-1.14

6" MIN. (TYP.)

401+00 402+00 403+00 404+00 404+45

PROFILE
SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

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CONSTRUCTION SET

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8/26/2021

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HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

CRAVEN • THOMPSON AND ASSOCIATES, INC.
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3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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ENGINEER: PATRICK J. GIBNEY
REG. No.: 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DESIGNED BY: XXX
DATE: 01/07/2019
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

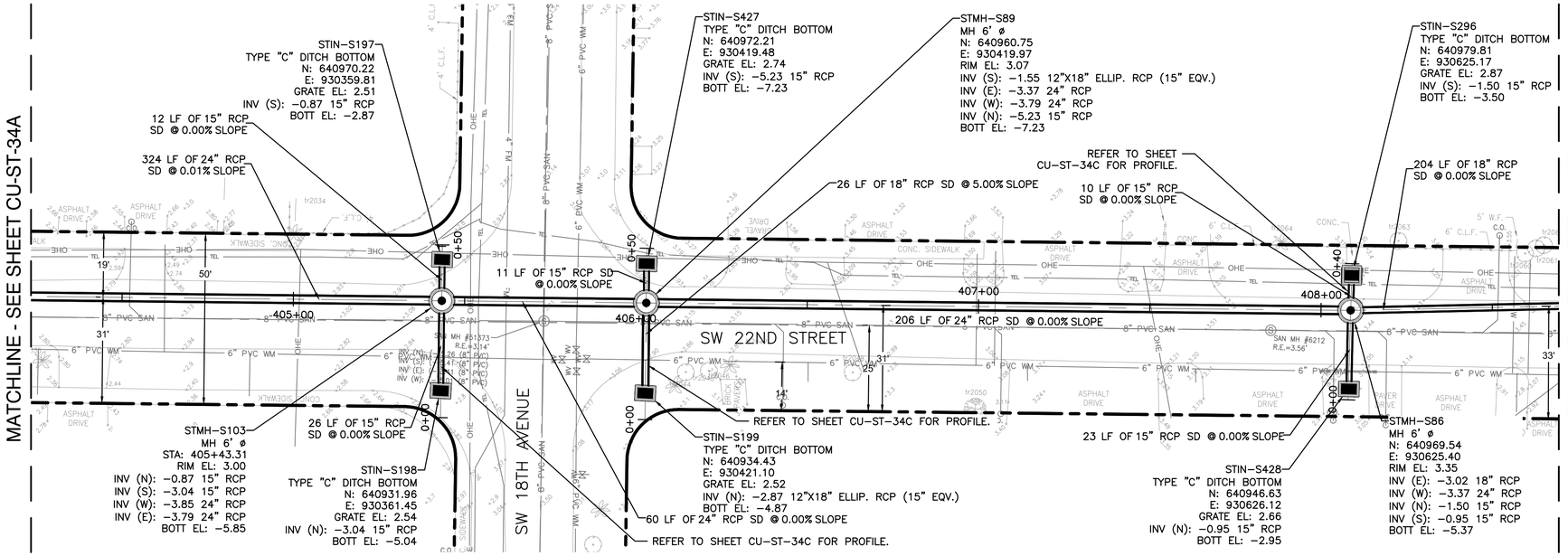
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-34A

TOTAL: 255

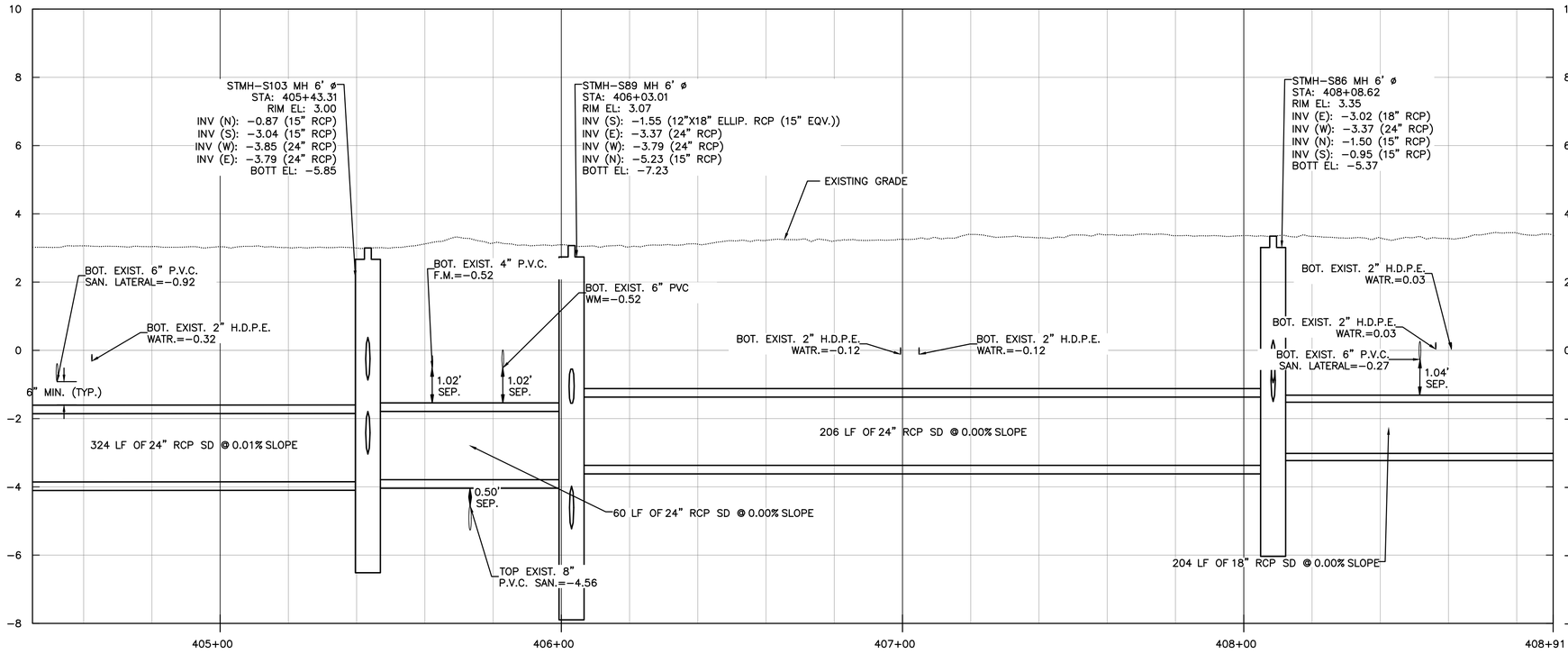
CAD FILE: 11868-CU-ST-B

DRAWING FILE NO. 4-142-42



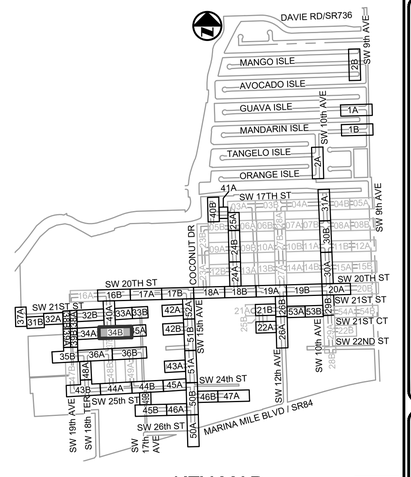
PLAN

SCALE: 1"=20'



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL



KEY MAP

N.T.S.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).

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Certificate of Authorization No: 2771

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TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

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PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

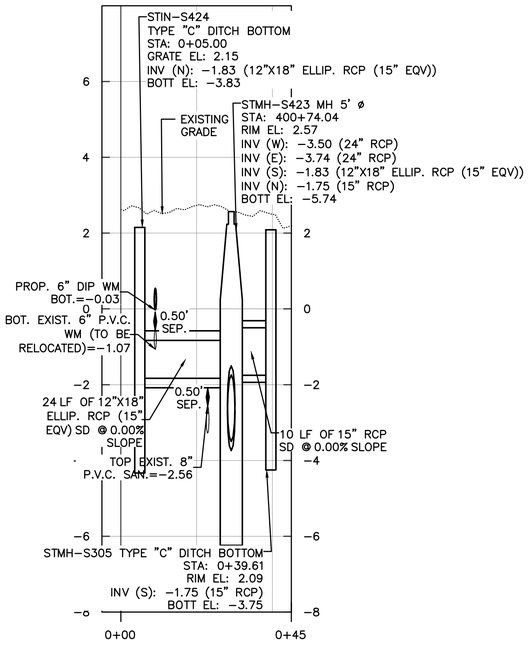
SHEET NO.
CU-ST-34B

TOTAL: 255

CAD FILE: 11868-CU-ST-B

DRAWING FILE NO. 4-142-42

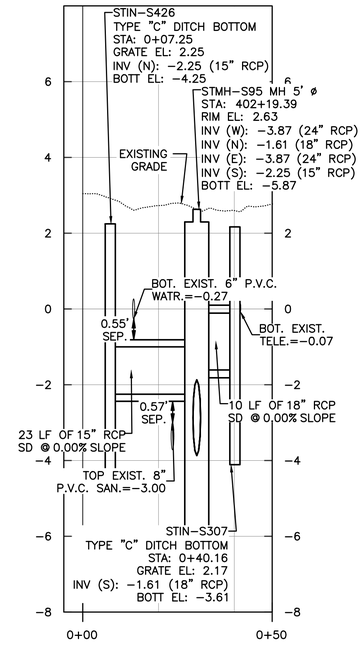
CAM #22-0947
Exhibit 1C
p. 1530
Page 14 of 85



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

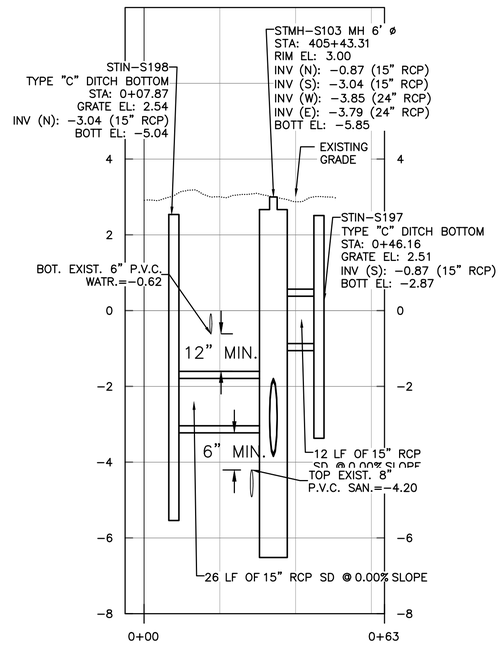
S.W. 22ND STREET
(SEE SHEET CU-ST-34A)
STA:400+80



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

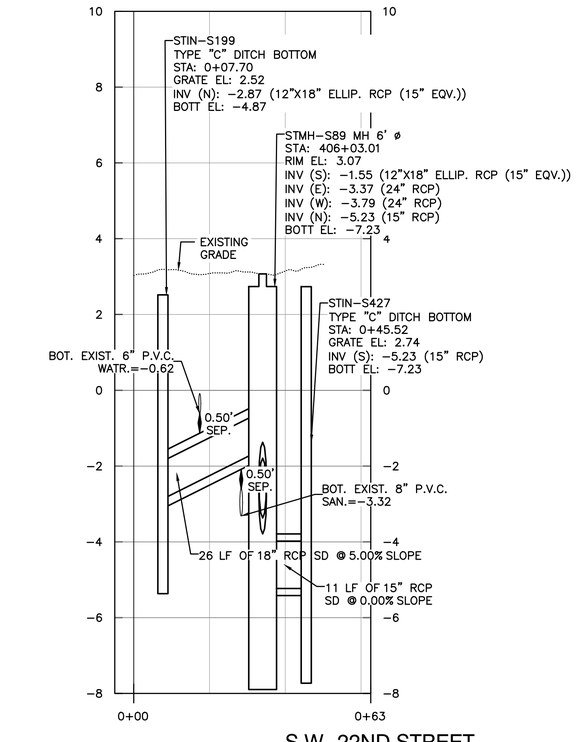
S.W. 22ND STREET
(SEE SHEET CU-ST-34A)
STA:402+20



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

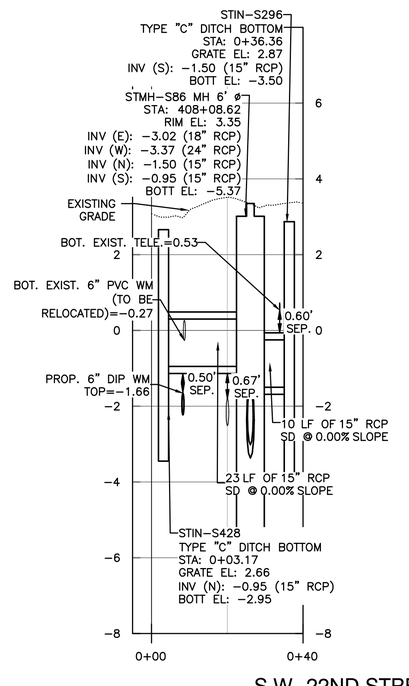
S.W. 22ND STREET
(SEE SHEET CU-ST-34B)
STA:405+40



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

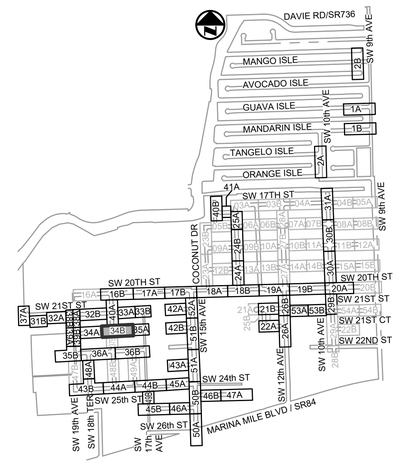
S.W. 22ND STREET
(SEE SHEET CU-ST-34B)
STA:406+00



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

S.W. 22ND STREET
(SEE SHEET CU-ST-34B)
STA:408+10



KEY MAP

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NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
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CONSTRUCTION SET

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HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021
Certificate of Authorization No: 2771

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ENGINEER: PATRICK J. GIBNEY
FLA. LIC. NO. 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-34C

TOTAL: 255

CAD FILE: 11868-CU-ST-B

DRAWING FILE NO. 4-142-42

9/20/2022 9:05 AM

PLOT DATE: 8/26/2021 1:57 PM BY: MRODRIGUEZ

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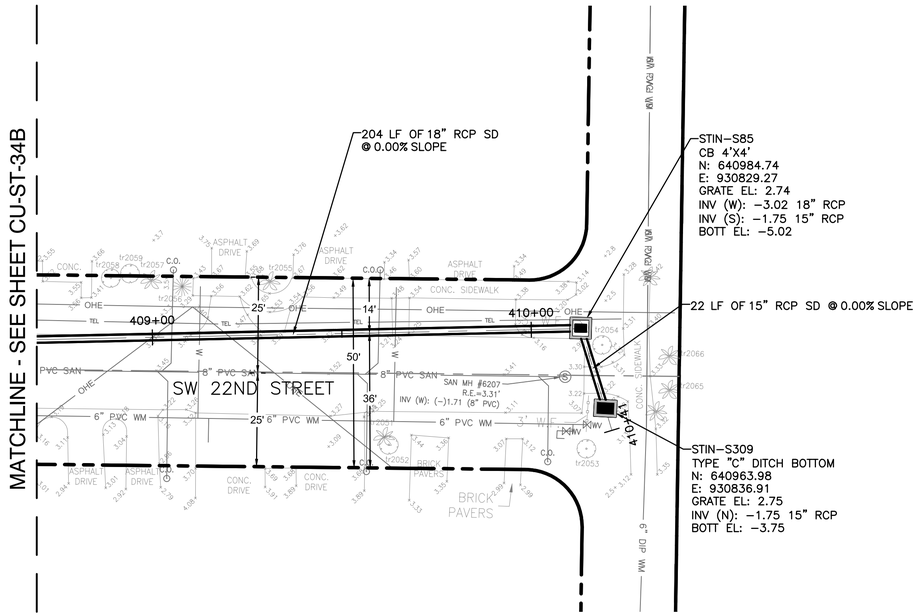
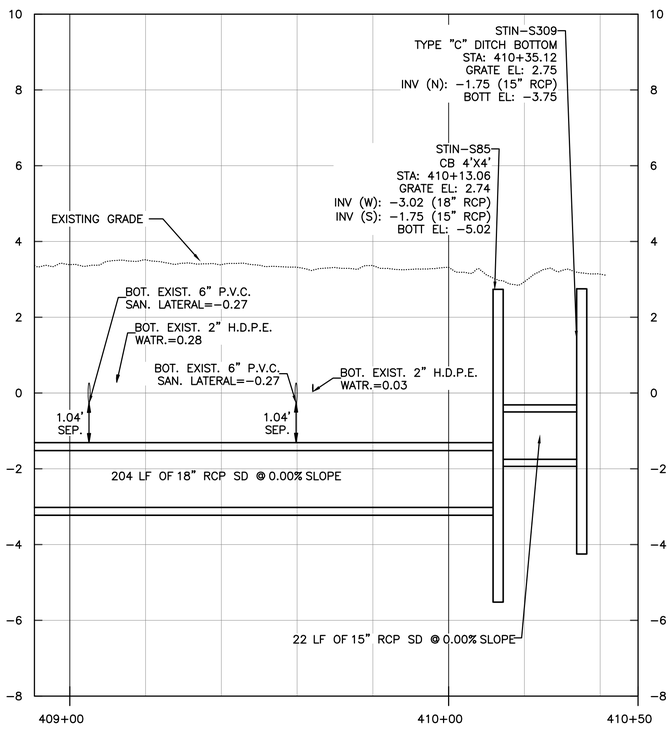


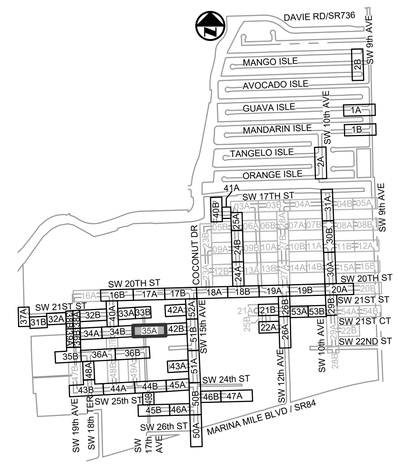
PLAN

SCALE: 1"=20'



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL



KEY MAP

N.T.S.

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NOTES:

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4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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ENGINEER: PATRICK J. GIBNEY
REG. No.: 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

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8/26/2021

CONSTRUCTION SET

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-35A

TOTAL: 255

CAD FILE: 11868-CU-ST-B

DRAWING FILE NO. 4-142-42

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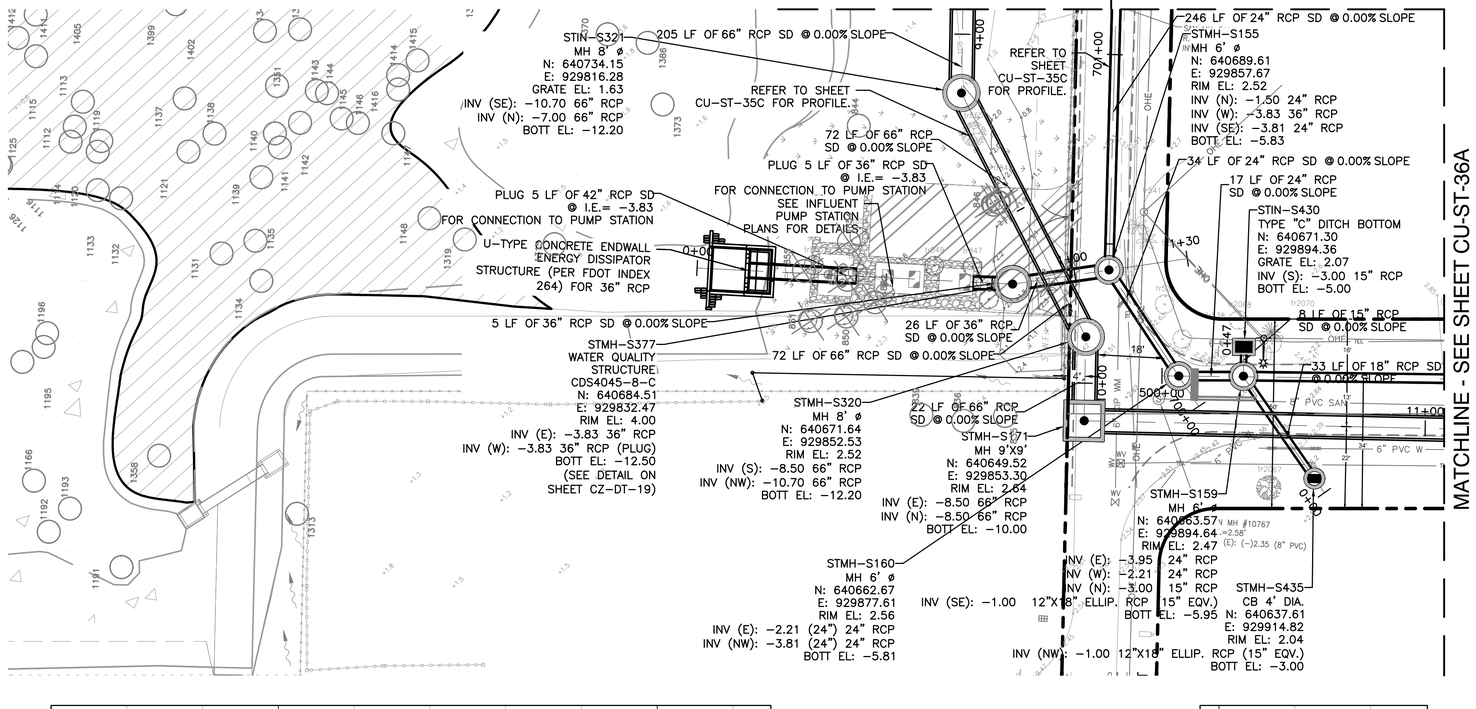
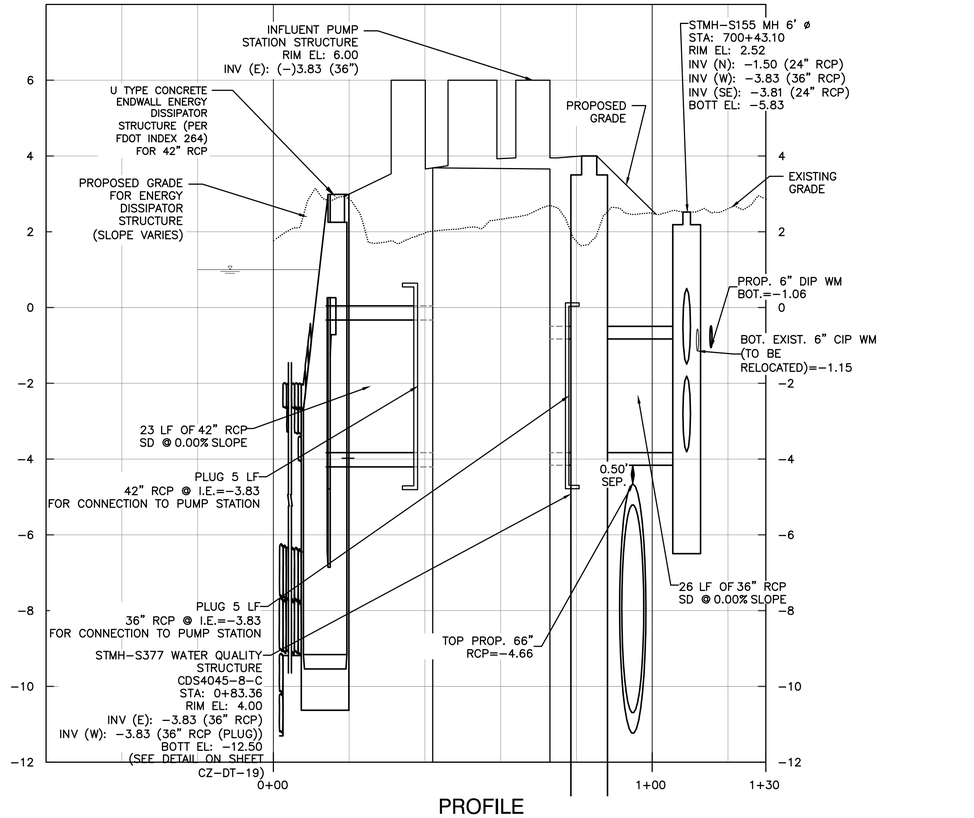
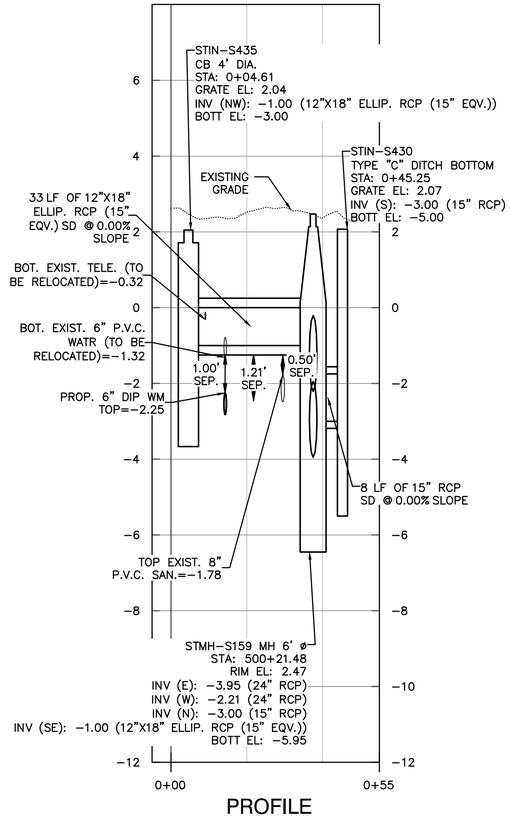




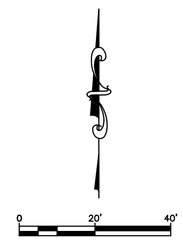
PROFILE

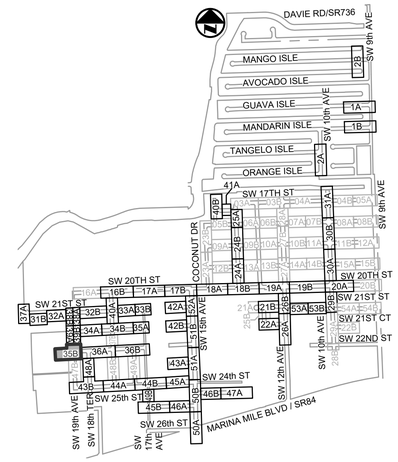
SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL





KEY MAP

N.T.S.

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NOTES:

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2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).
3. ALL AREAS DISTURBED DURING CONTSTRUCTION AT THE STORMWATER PRESERVE SHALL BE RESTORED TO SAME OR BETTER CONDITION, NOT LIMITED TO MUCK REPLACEMENT AND PLANTINGS ETC.

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ENGINEER: PATRICK J. GIBNEY
REG. #: 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

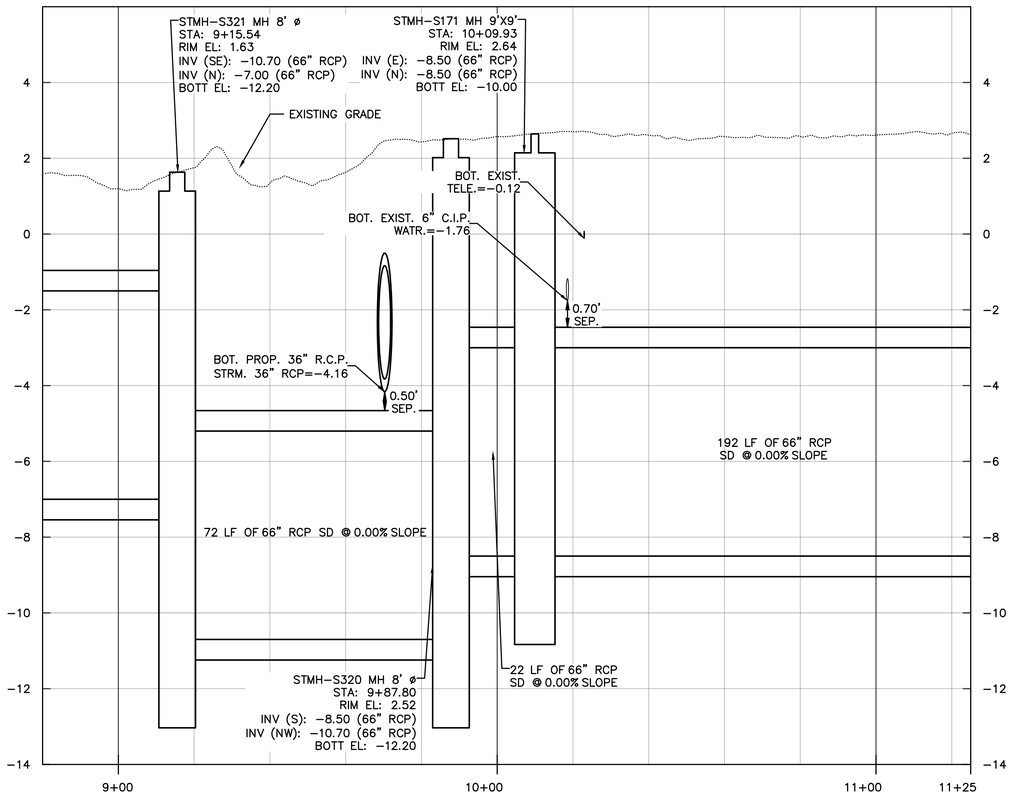
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-35B

TOTAL: 255

CAD FILE: 11868-CU-ST-B

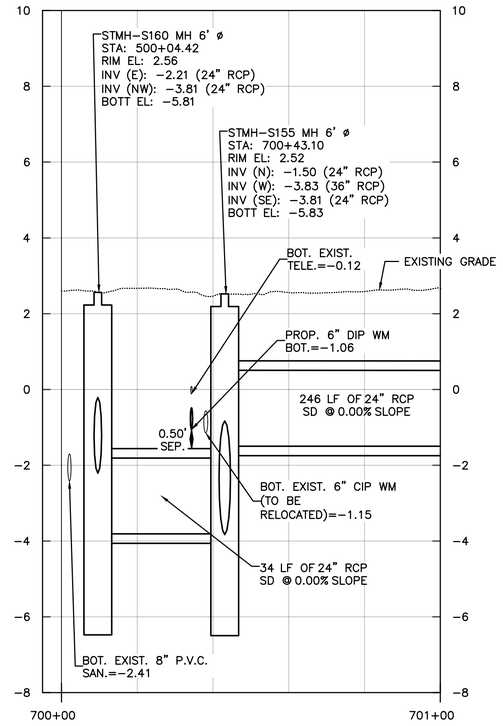
DRAWING FILE NO. 4-142-42



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

S.W. 23RD STREET
(SEE SHEET CU-ST-35B)



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

S.W. 23RD STREET
(SEE SHEET CU-ST-35B)

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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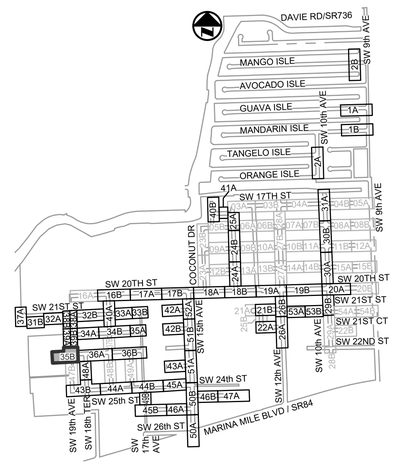

KEY MAP

N.T.S.

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Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

CONSTRUCTION SET

ENGINEER: PATRICK J. GIBNEY
REG. No. 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DESIGNED BY: XXX
DATE: 01/07/2019
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

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8/26/2021

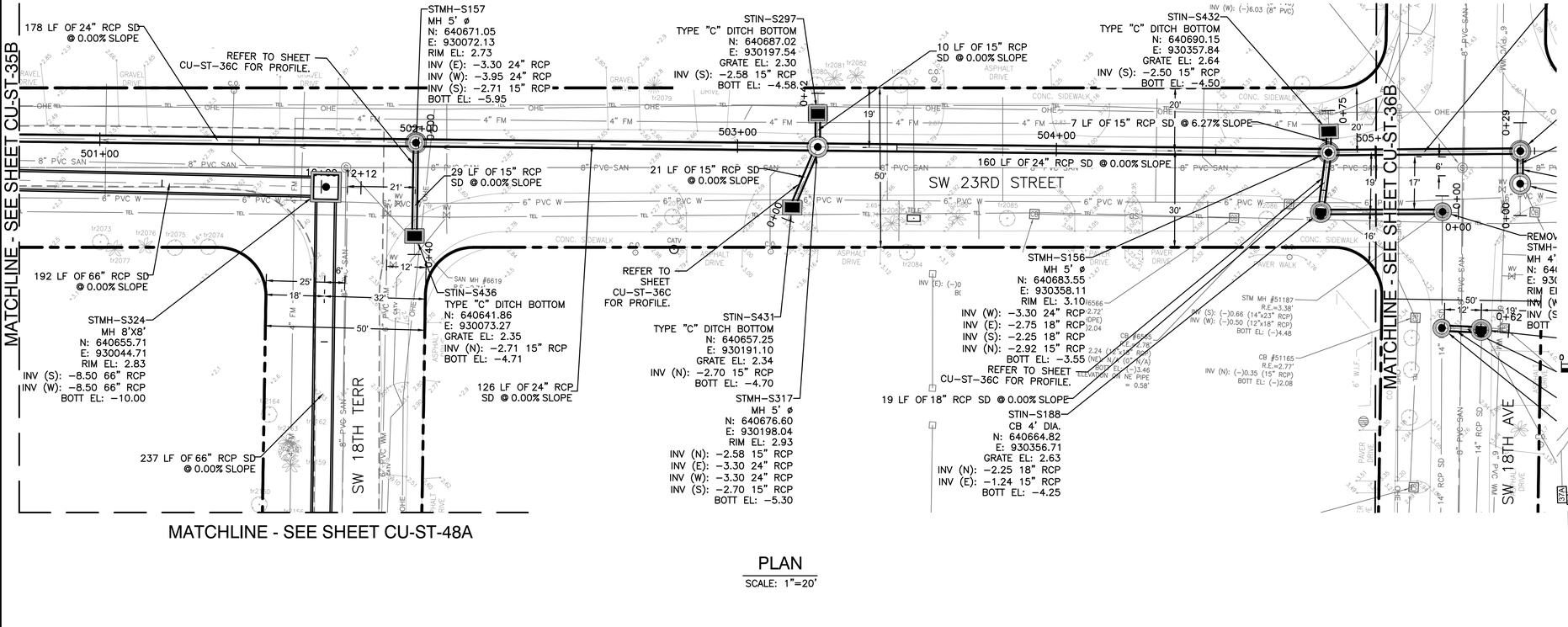
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-35C

TOTAL: 255

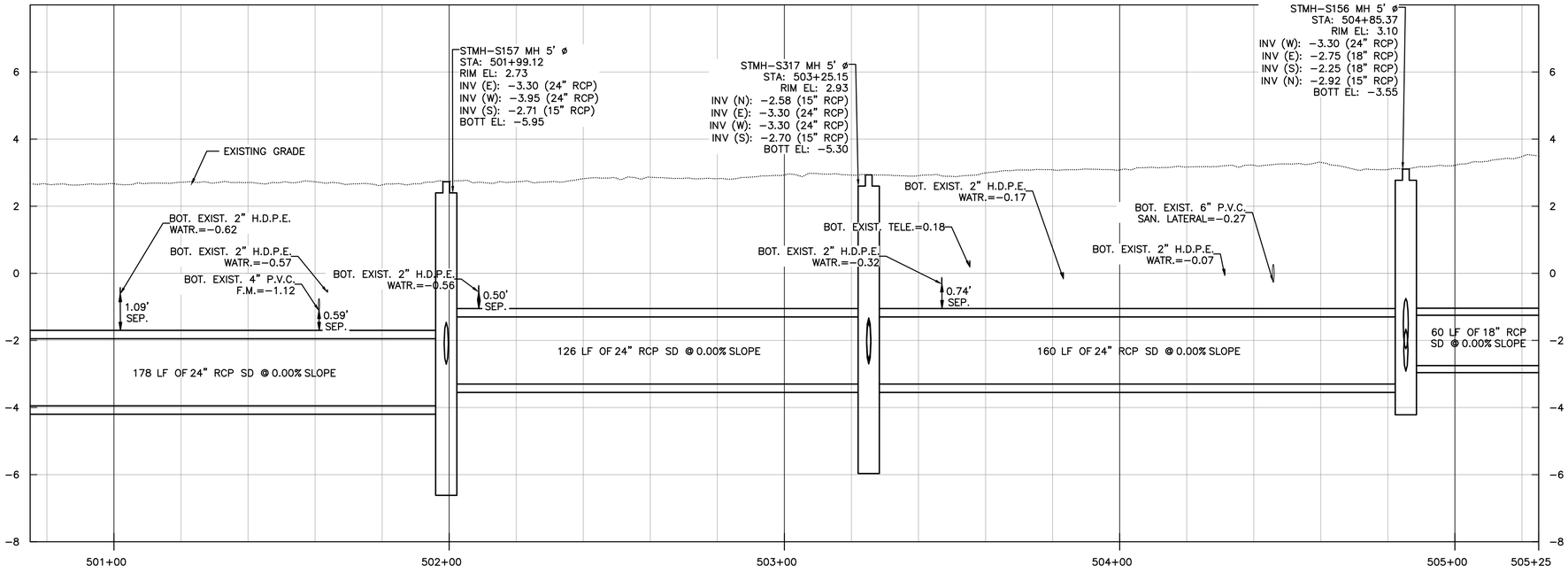
CAD FILE: 11868-CU-ST-B

DRAWING FILE NO. 4-142-42



PLAN

SCALE: 1"=20'



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

KEY MAP

N.T.S.

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8/26/2021

CONSTRUCTION SET

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

CRAVEN • THOMPSON AND ASSOCIATES, INC.
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FAX: (954) 739-6409 TEL: (954) 739-6400
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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

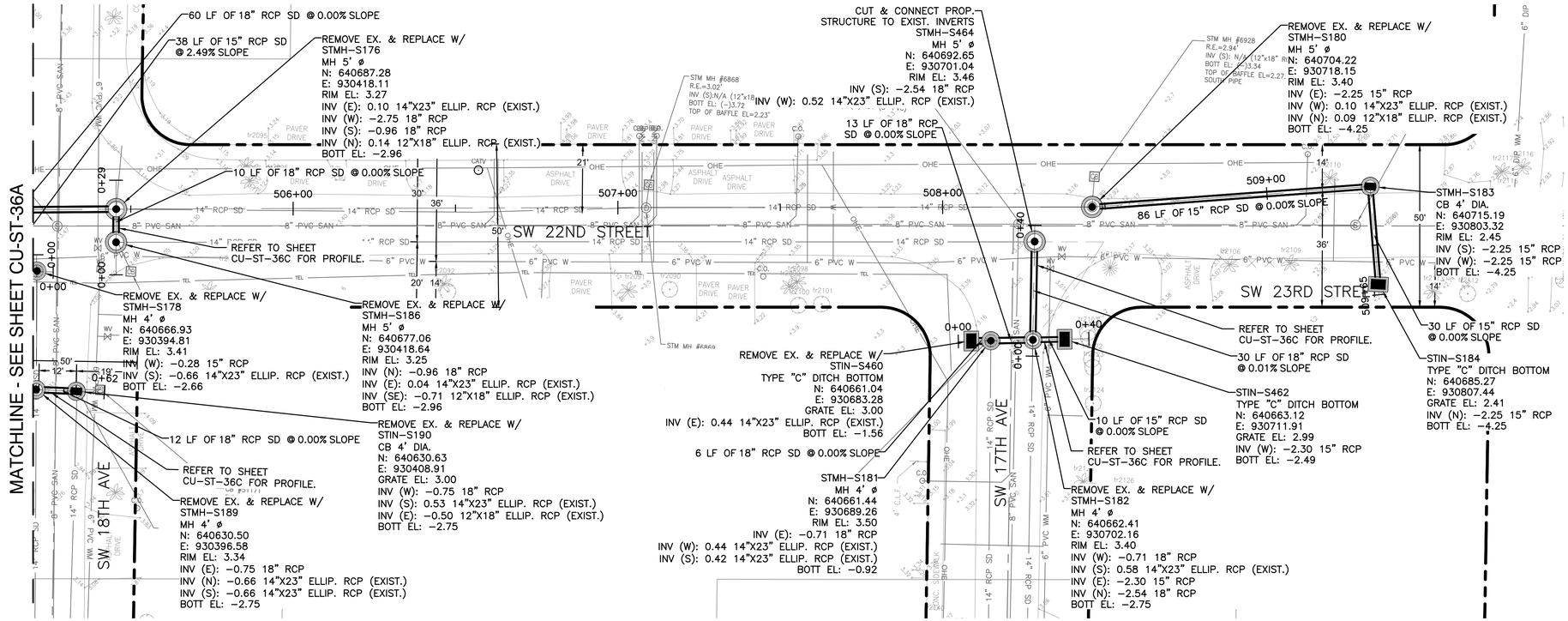
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-36A

TOTAL: 255

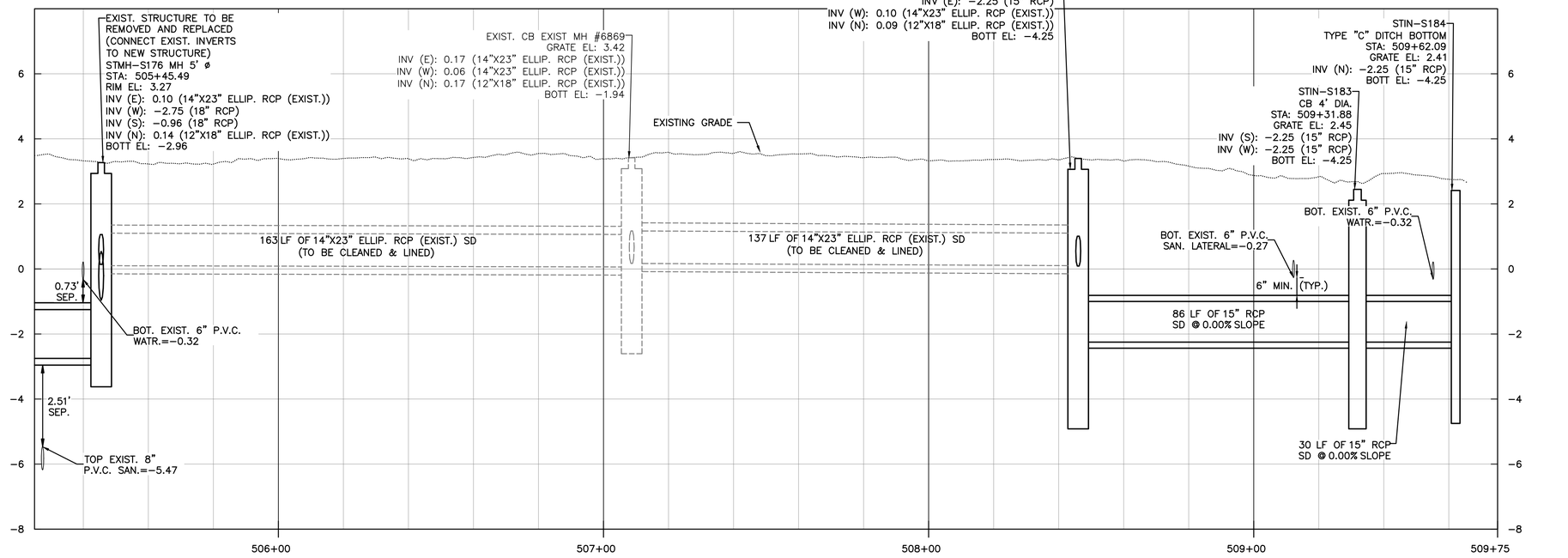
CAD FILE: 11868-CU-ST-B

DRAWING FILE NO. 4-142-42



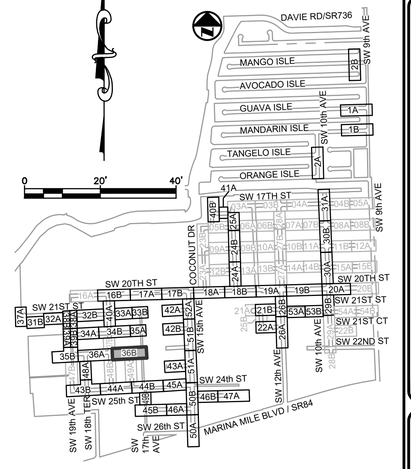
PLAN

SCALE: 1"=20'



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL



KEY MAP

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RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-36B

TOTAL: 255

CAD FILE: 11868-CU-ST-B

DRAWING FILE NO. 4-142-42

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

ENGINEER: PATRICK J. GIBNEY
REG. NO.: 49428
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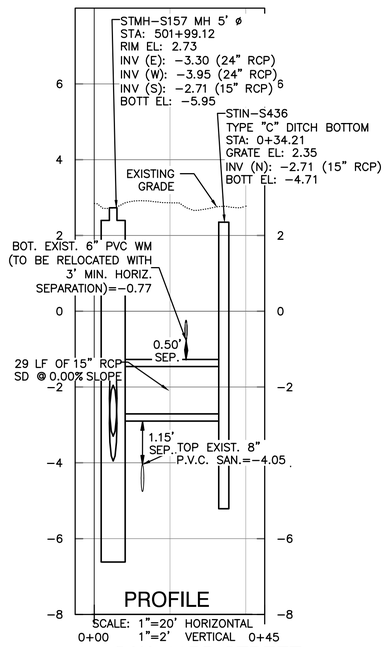
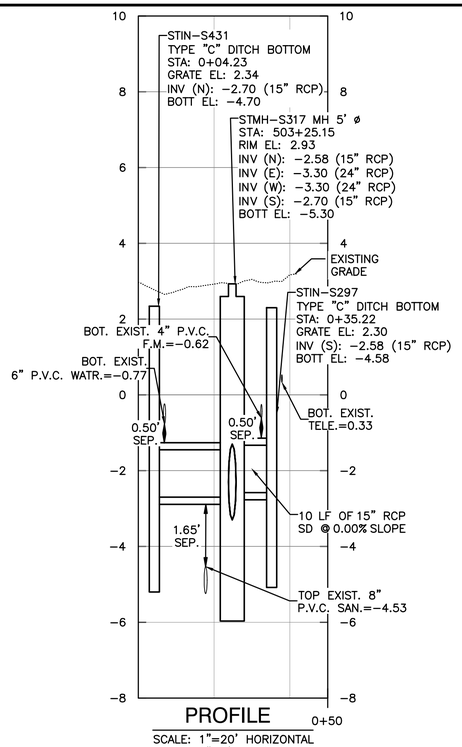
DESIGNED BY: XXX
DATE: 01/07/2019
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

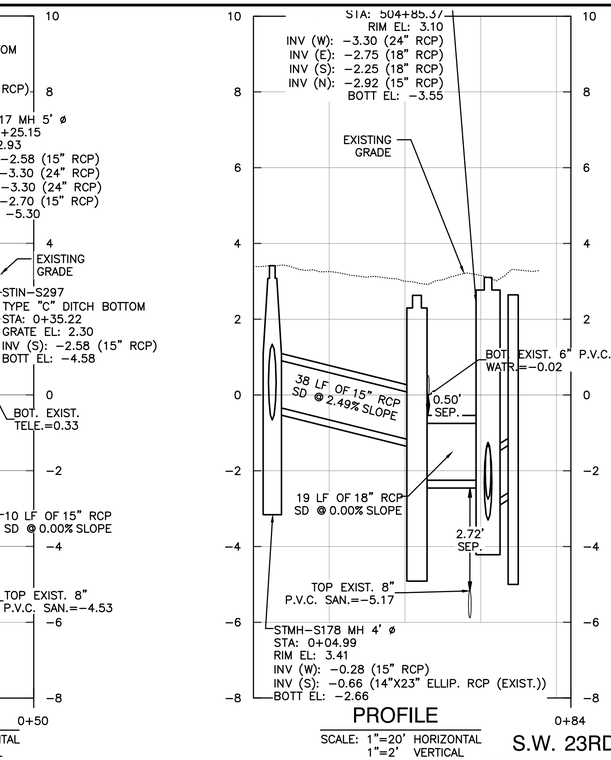
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301



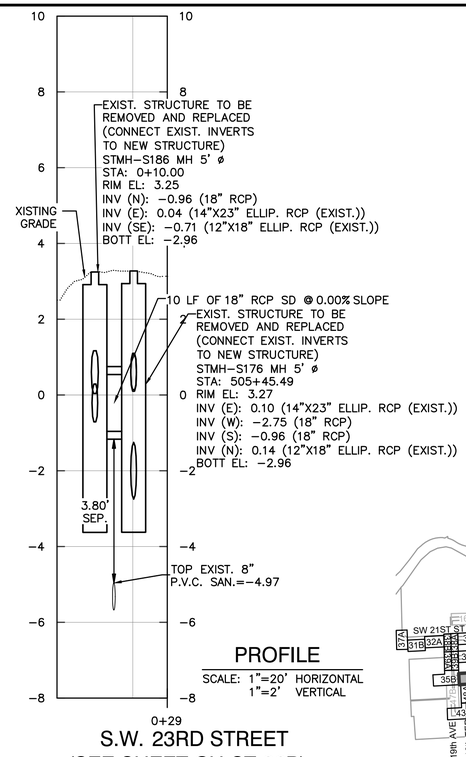
S.W. 23RD STREET
(SEE SHEET CU-ST-36A)



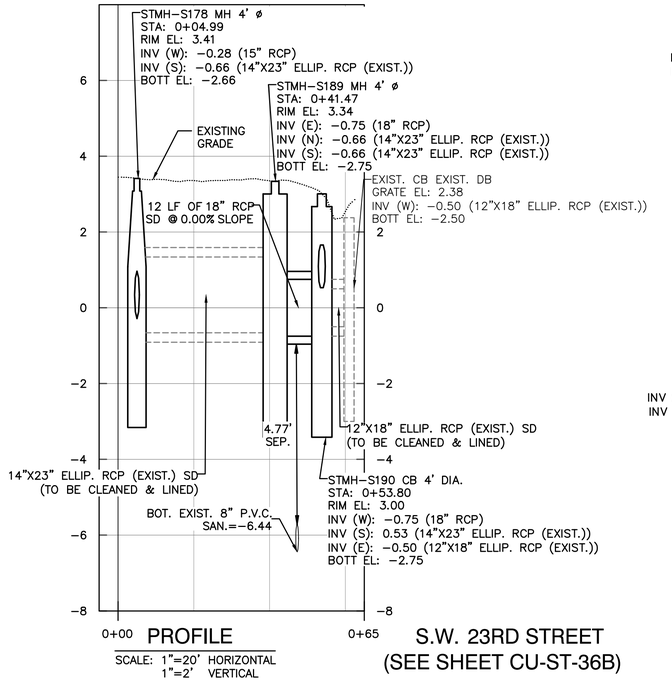
S.W. 23RD STREET
(SEE SHEET CU-ST-36A)



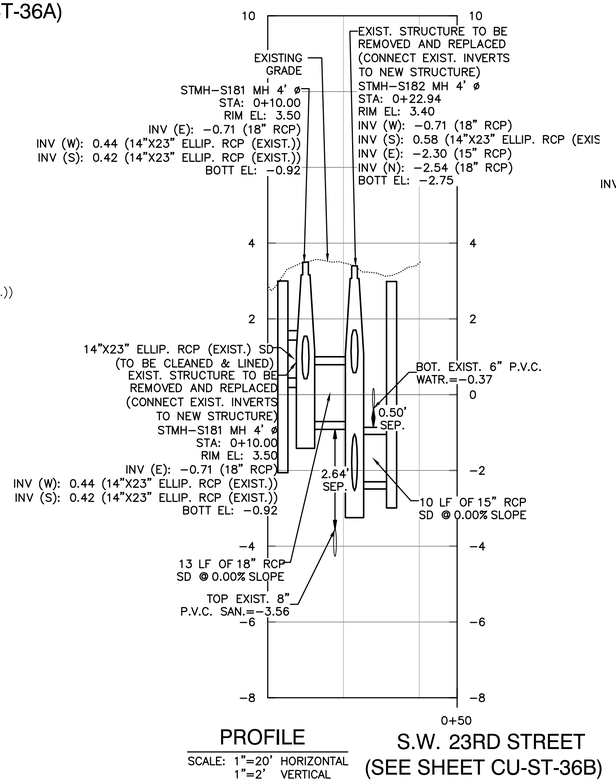
S.W. 23RD STREET
(SEE SHEET CU-ST-36A)



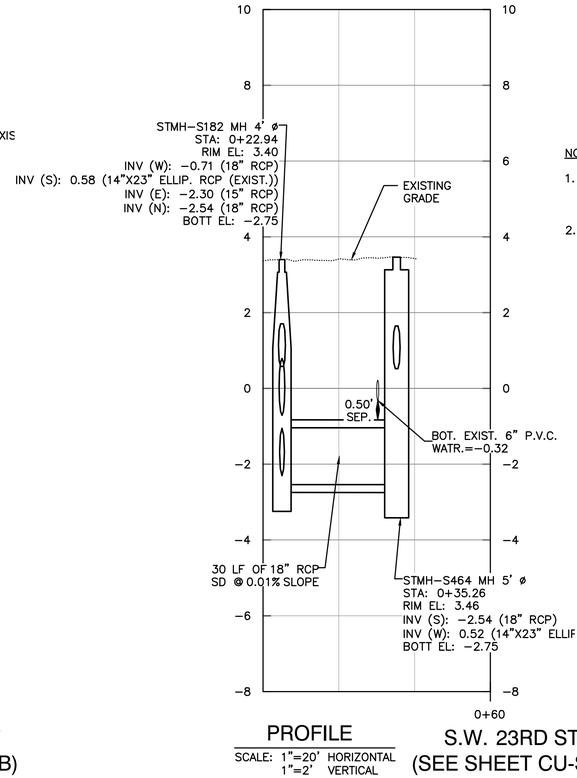
S.W. 23RD STREET
(SEE SHEET CU-ST-36B)



S.W. 23RD STREET
(SEE SHEET CU-ST-36B)



S.W. 23RD STREET
(SEE SHEET CU-ST-36B)



S.W. 23RD STREET
(SEE SHEET CU-ST-36B)

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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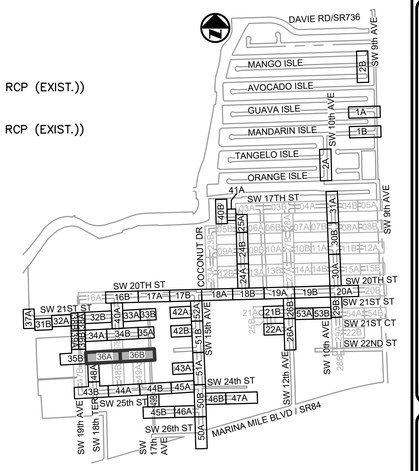

KEY MAP
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8/26/2021

CONSTRUCTION SET

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

ENGINEER: PATRICK J. GIBNEY
REG. NO. 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DESIGNED BY: XXX
DATE: 01/07/2019
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

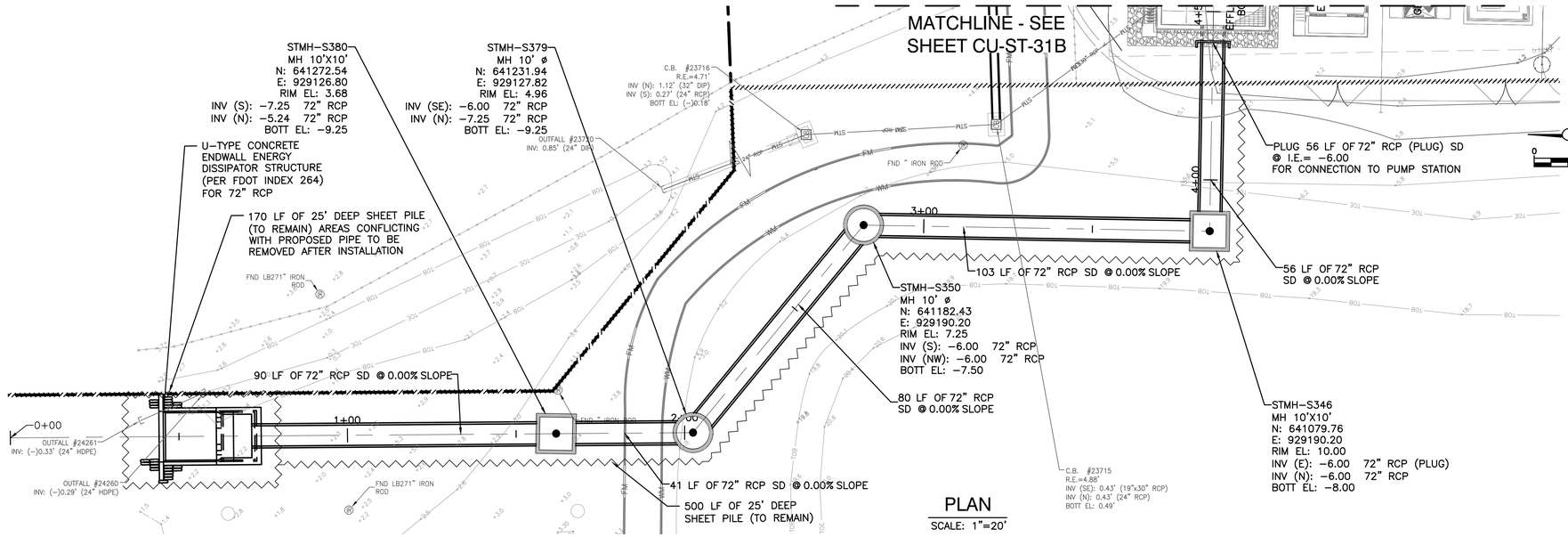
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-36C

TOTAL: 255

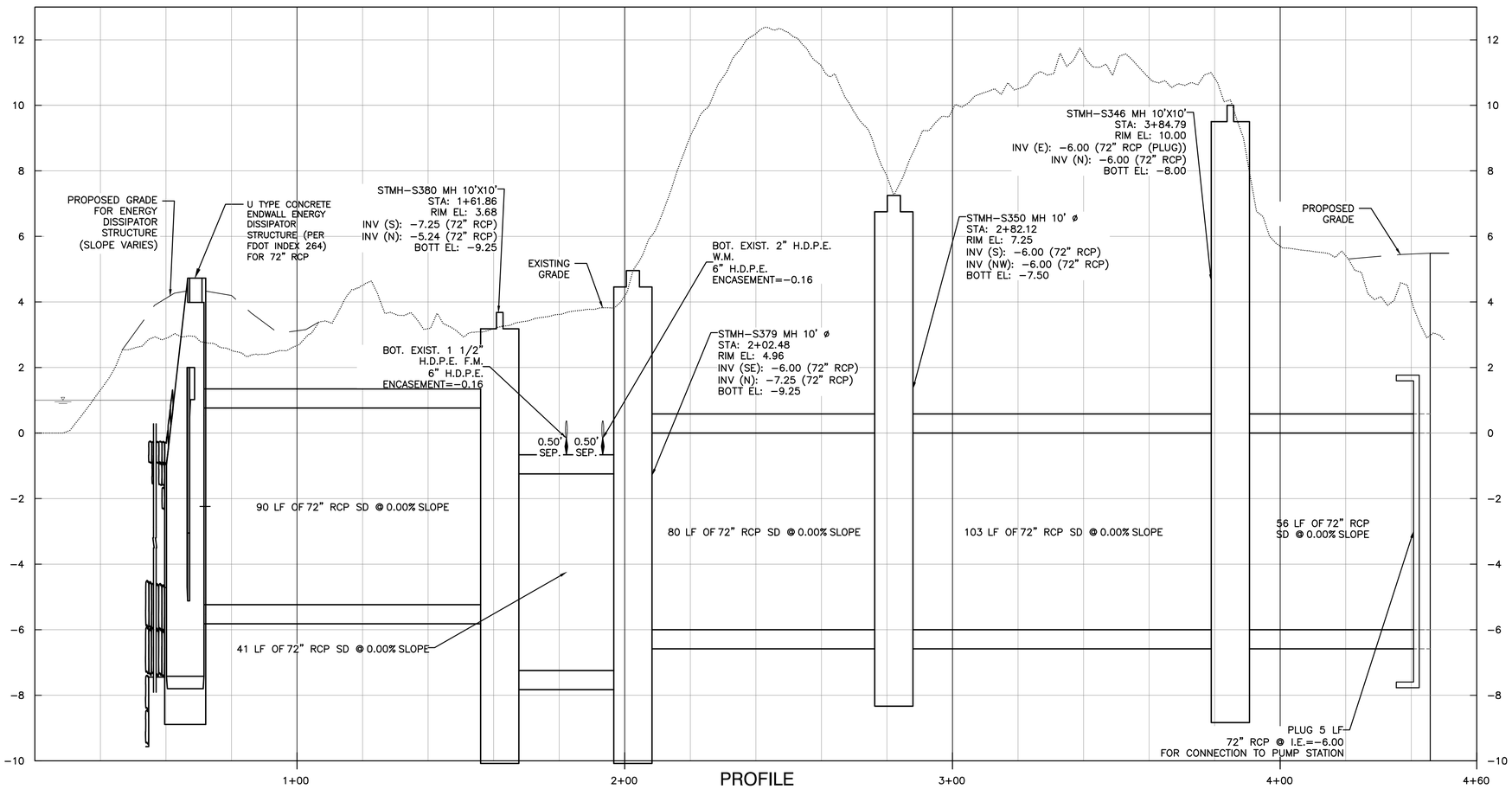
CAD FILE:
11868–CU–ST–B

DRAWING FILE NO.
4–142–42



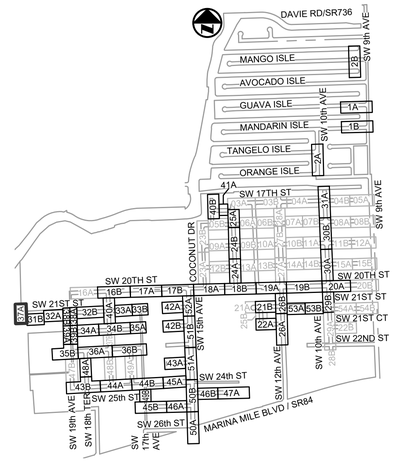
PLAN

SCALE: 1"=20'



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL



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ENGINEER: PATRICK J. GIBNEY
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FAX: 954-739-6409

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DATE: 01/07/2019
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SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

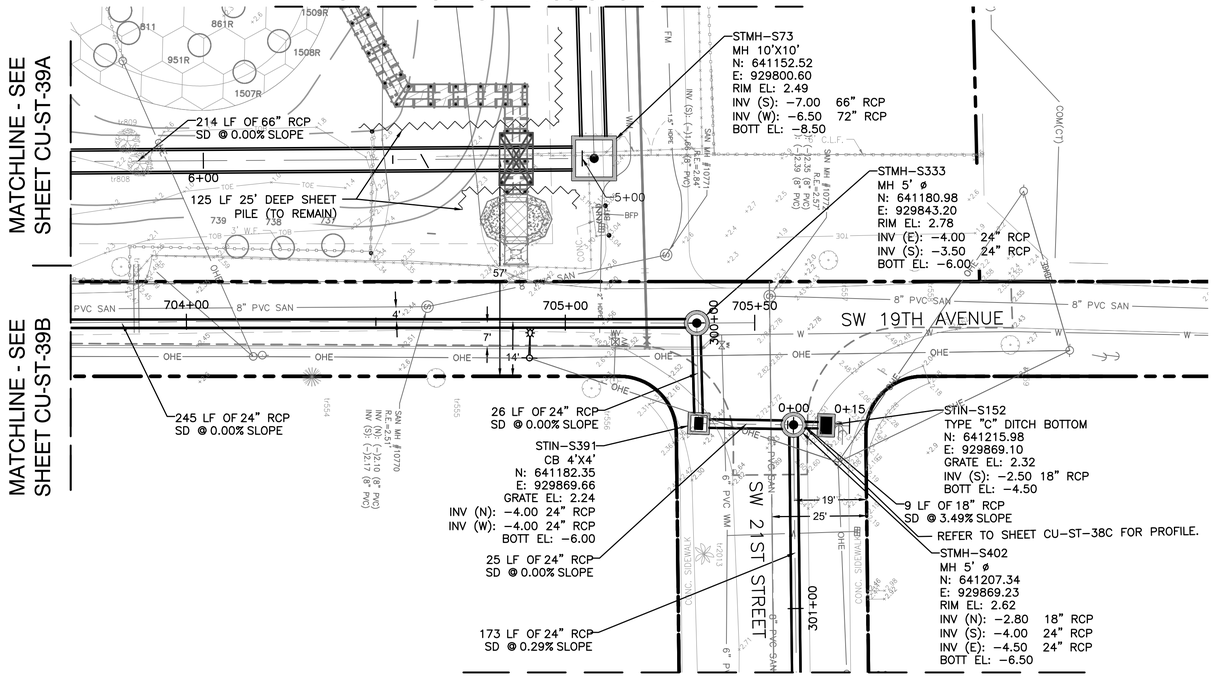
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-37A

TOTAL: 255

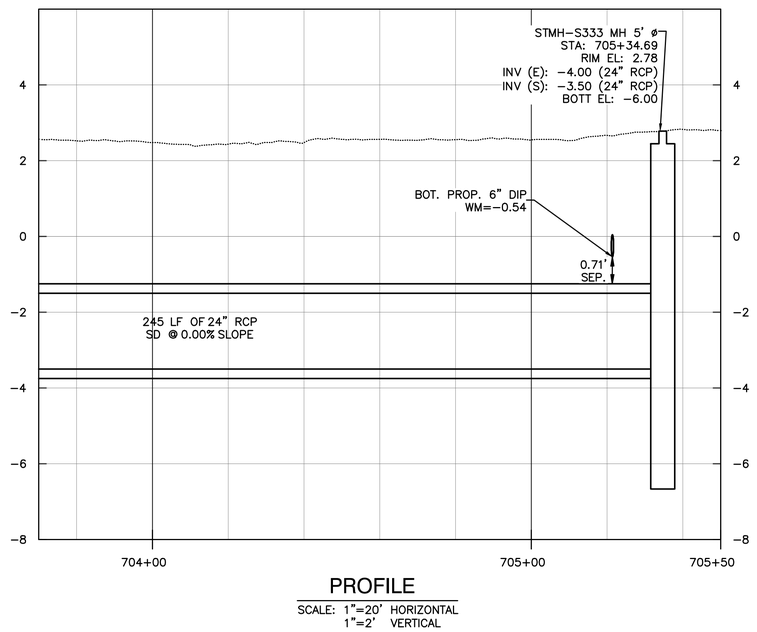
CAD FILE: 11868-CU-ST-B

DRAWING FILE NO. 4-142-42



PLAN

SCALE: 1"=20'



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

0 20' 40'

Hazen

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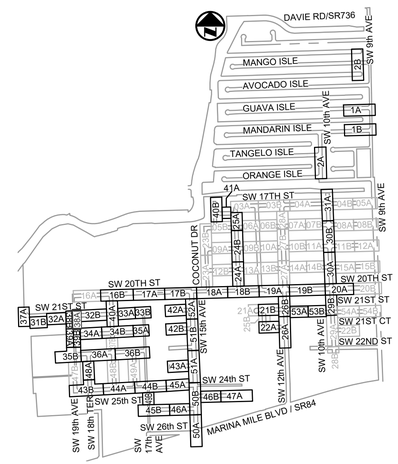

KEY MAP

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3. ALL AREAS DISTURBED DURING CONTSTRUCTION AT THE STORMWATER PRESERVE SHALL BE RESTORED TO SAME OR BETTER CONDITION, NOT LIMITED TO MUCK REPLACEMENT AND PLANTINGS ETC.
4. THE EXISTING BOARDWALK SHALL BE REMOVED & REPLACED FOR INSTALLATION OF 66" RCP. CONTRACTOR SHALL PROVIDE STRUCTURAL DESIGN & CALCULATIONS FOR DESIGN OF BOARDWALK FOUNDATION SPREAD FOOTING OVER PROPOSED PIPING. SCHEMATIC DESIGN SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL PROVIDE SIGNED & SEALED SHOP DRAWINGS SHOP DRAWINGS DETAILING PROPOSED MODIFICATIONS TO BOARDWALK FOR CITY'S REVIEW & APPROVAL.
5. ANY MODIFICATIONS TO BOARDWALK AND / OR RAILINGS SHALL BE RESTORED TO EQUAL OR BETTER CONDITIONS INCLUDING ADA COMPLIANCE & FEATURES.

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PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-38A

TOTAL: 255

CAD FILE: 11868-CU-ST-B

DRAWING FILE NO. 4-142-42

CAM #22-0947
Exhibit 1C
p. 1539

PLOT DATE: 8/26/2021 2:12 PM BY: MRODRIGUEZ
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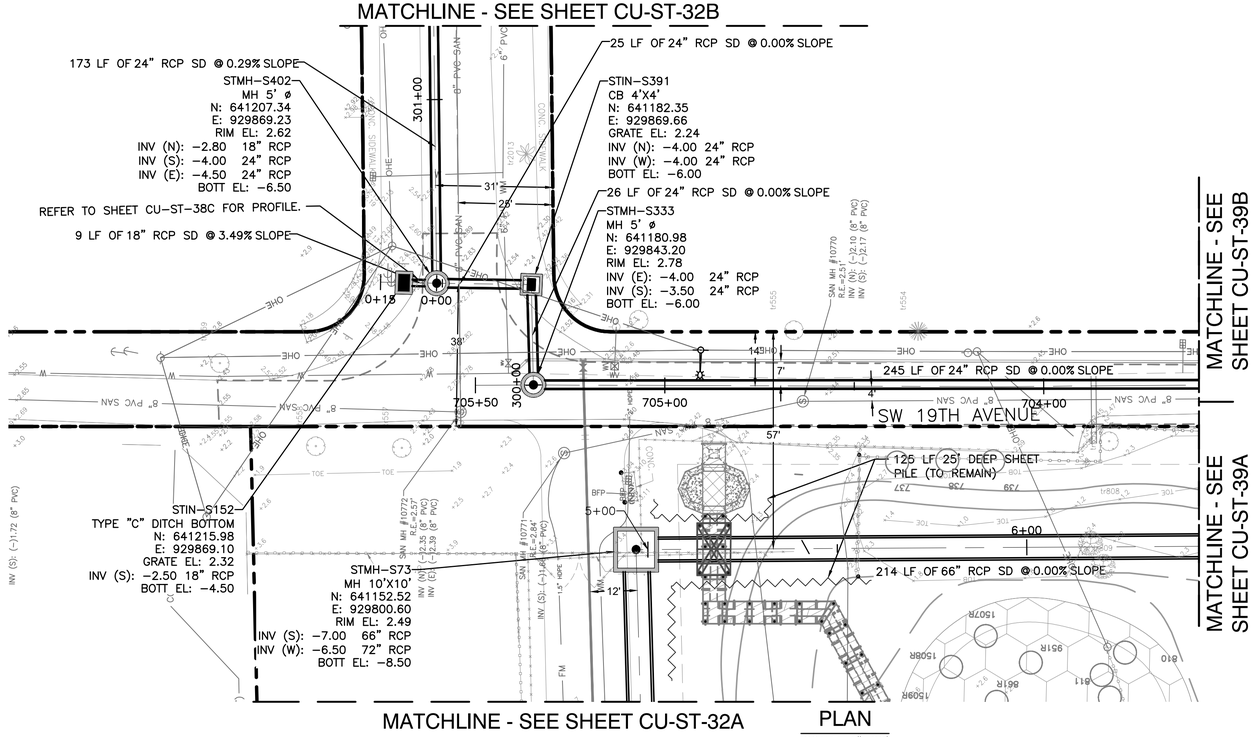

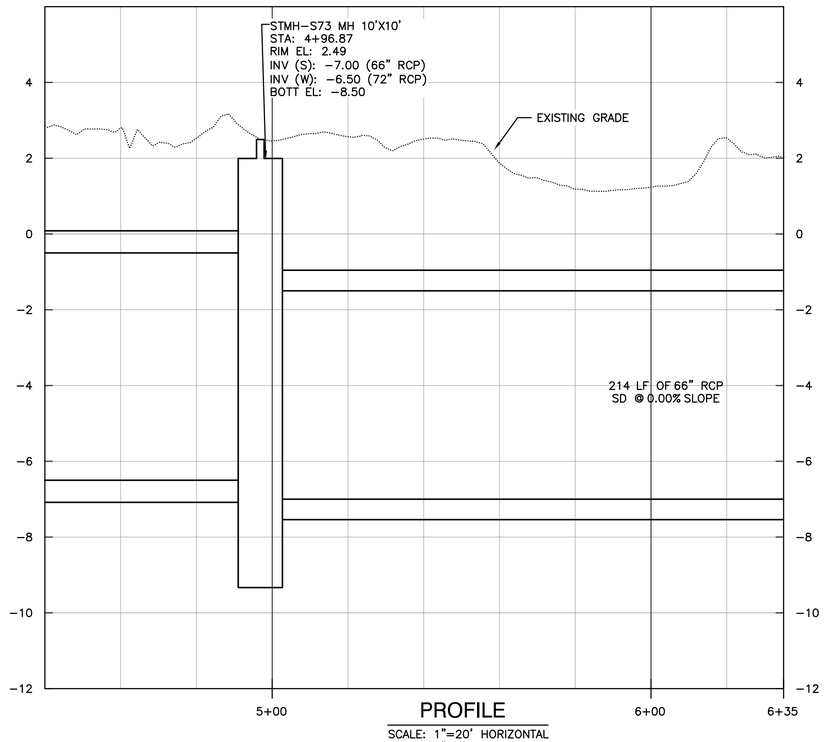

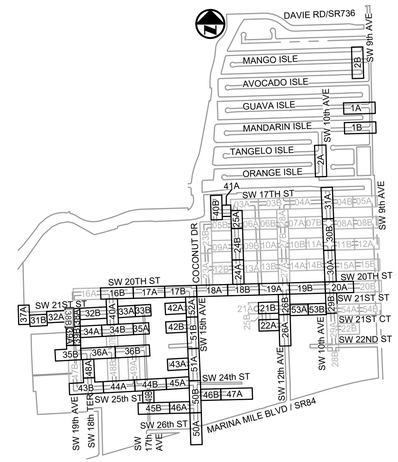

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NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).
3. ALL AREAS DISTURBED DURING CONTSTRUCTION AT THE STORMWATER PRESERVE SHALL BE RESTORED TO SAME OR BETTER CONDITION, NOT LIMITED TO MUCK REPLACEMENT AND PLANTINGS ETC.
4. THE EXISTING BOARDWALK SHALL BE REMOVED & REPLACED FOR INSTALLATION OF 66" RCP. CONTRACTOR SHALL PROVIDE STRUCTURAL DESIGN & CALCULATIONS FOR DESIGN OF BOARDWALK FOUNDATION SPREAD FOOTING OVER PROPOSED PIPING. SCHEMATIC DESIGN SHOWN IS FOR REFERENCE ONLY. CONTRACTOR SHALL PROVIDE SIGNED & SEALED SHOP DRAWINGS SHOP DRAWINGS DETAILING PROPOSED MODIFICATIONS TO BOARDWALK FOR CITY'S REVIEW & APPROVAL.
5. ANY MODIFICATIONS TO BOARDWALK AND / OR RAILINGS SHALL BE RESTORED TO EQUAL OR BETTER CONDITIONS INCLUDING ADA COMPLIANCE & FEATURES.

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

Patrick J. Gibney, State of Florida, Professional Engineer, License No. 49428. This item has been electronically signed and sealed by Patrick J. Gibney on the date indicated here using an SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

8/26/2021

CONSTRUCTION SET

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

CRAVEN • THOMPSON AND ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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ENGINEER: PATRICK J. GIBNEY
REG. No.: 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DESIGNED BY: XXX
DATE: 01/07/2019
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

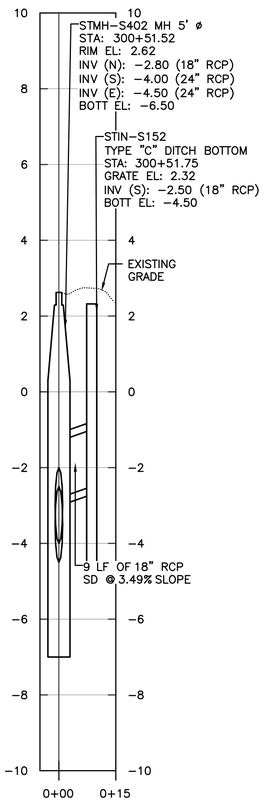
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-38B

TOTAL: 255

CAD FILE: 11868-CU-ST-B

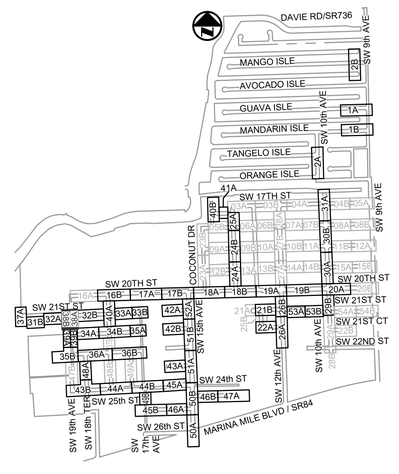
DRAWING FILE NO. 4-142-42



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

S.W. 21ST STREET
(SEE SHEET CU-ST-38A & CU-ST-38B)



KEY MAP

N.T.S.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

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Patrick J. Gibney, State of Florida, Professional Engineer, License No. 49428. This item has been electronically signed and sealed by Patrick J. Gibney on the date indicated here using an SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

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HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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ENGINEER: PATRICK J. GIBNEY
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CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-38C

TOTAL: 255

CAD FILE: 11868-CU-ST-B

DRAWING FILE NO. 4-142-42

CAM #22-0947
Exhibit 1C
p. 1541

PLOT DATE: 8/26/2021 2:16 PM BY: MRODRIGUEZ
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Plan\Drawings\11868\11868XREFDT1,.\11868TOPOGRAPHY,.\11868XREF-PROP-B&C&D-B,.\11868XREF-PROP-PLAN-C,.\11868XREF-PROP-PLAN-D,.\11868XREF-PROP-B&C&D-C,.\11868XREF-PROP-B&C&D-D,.\11868XREF-PROP-PLAN-A,.\11868XREF-PROP-B&C&D-A,.\11868XREF-PROP-PLAN-E,.\11868XREF-PROP-B&C&D-E,.\11868XREF-PROP-PLAN-F,.\11868XREF-PROP-B&C&D-F,.\11868XREF-PROP-PLAN-G,.\11868XREF-PROP-B&C&D-G,.\11868XREF-PROP-PLAN-H,.\11868XREF-PROP-B&C&D-H,.\11868XREF-PROP-PLAN-I,.\11868XREF-PROP-B&C&D-I,.\11868XREF-PROP-PLAN-J,.\11868XREF-PROP-B&C&D-J,.\11868XREF-PROP-PLAN-K,.\11868XREF-PROP-B&C&D-K,.\11868XREF-PROP-PLAN-L,.\11868XREF-PROP-B&C&D-L,.\11868XREF-PROP-PLAN-M,.\11868XREF-PROP-B&C&D-M,.\11868XREF-PROP-PLAN-N,.\11868XREF-PROP-B&C&D-N,.\11868XREF-PROP-PLAN-O,.\11868XREF-PROP-B&C&D-O,.\11868XREF-PROP-PLAN-P,.\11868XREF-PROP-B&C&D-P,.\11868XREF-PROP-PLAN-Q,.\11868XREF-PROP-B&C&D-Q,.\11868XREF-PROP-PLAN-R,.\11868XREF-PROP-B&C&D-R,.\11868XREF-PROP-PLAN-S,.\11868XREF-PROP-B&C&D-S,.\11868XREF-PROP-PLAN-T,.\11868XREF-PROP-B&C&D-T,.\11868XREF-PROP-PLAN-U,.\11868XREF-PROP-B&C&D-U,.\11868XREF-PROP-PLAN-V,.\11868XREF-PROP-B&C&D-V,.\11868XREF-PROP-PLAN-W,.\11868XREF-PROP-B&C&D-W,.\11868XREF-PROP-PLAN-X,.\11868XREF-PROP-B&C&D-X,.\11868XREF-PROP-PLAN-Y,.\11868XREF-PROP-B&C&D-Y,.\11868XREF-PROP-PLAN-Z,.\11868XREF-PROP-B&C&D-Z,.\11868XREF-PROP-PLAN-AA,.\11868XREF-PROP-B&C&D-AA,.\11868XREF-PROP-PLAN-AB,.\11868XREF-PROP-B&C&D-AB,.\11868XREF-PROP-PLAN-AC,.\11868XREF-PROP-B&C&D-AC,.\11868XREF-PROP-PLAN-AD,.\11868XREF-PROP-B&C&D-AD,.\11868XREF-PROP-PLAN-AE,.\11868XREF-PROP-B&C&D-AE,.\11868XREF-PROP-PLAN-AF,.\11868XREF-PROP-B&C&D-AF,.\11868XREF-PROP-PLAN-AG,.\11868XREF-PROP-B&C&D-AG,.\11868XREF-PROP-PLAN-AH,.\11868XREF-PROP-B&C&D-AH,.\11868XREF-PROP-PLAN-AI,.\11868XREF-PROP-B&C&D-AI,.\11868XREF-PROP-PLAN-AJ,.\11868XREF-PROP-B&C&D-AJ,.\11868XREF-PROP-PLAN-AK,.\11868XREF-PROP-B&C&D-AK,.\11868XREF-PROP-PLAN-AL,.\11868XREF-PROP-B&C&D-AL,.\11868XREF-PROP-PLAN-AM,.\11868XREF-PROP-B&C&D-AM,.\11868XREF-PROP-PLAN-AN,.\11868XREF-PROP-B&C&D-AN,.\11868XREF-PROP-PLAN-AO,.\11868XREF-PROP-B&C&D-AO,.\11868XREF-PROP-PLAN-AP,.\11868XREF-PROP-B&C&D-AP,.\11868XREF-PROP-PLAN-AQ,.\11868XREF-PROP-B&C&D-AQ,.\11868XREF-PROP-PLAN-AR,.\11868XREF-PROP-B&C&D-AR,.\11868XREF-PROP-PLAN-AS,.\11868XREF-PROP-B&C&D-AS,.\11868XREF-PROP-PLAN-AT,.\11868XREF-PROP-B&C&D-AT,.\11868XREF-PROP-PLAN-AU,.\11868XREF-PROP-B&C&D-AU,.\11868XREF-PROP-PLAN-AV,.\11868XREF-PROP-B&C&D-AV,.\11868XREF-PROP-PLAN-AW,.\11868XREF-PROP-B&C&D-AW,.\11868XREF-PROP-PLAN-AX,.\11868XREF-PROP-B&C&D-AX,.\11868XREF-PROP-PLAN-AY,.\11868XREF-PROP-B&C&D-AY,.\11868XREF-PROP-PLAN-AZ,.\11868XREF-PROP-B&C&D-AZ,.\11868XREF-PROP-PLAN-BA,.\11868XREF-PROP-B&C&D-BA,.\11868XREF-PROP-PLAN-BB,.\11868XREF-PROP-B&C&D-BB,.\11868XREF-PROP-PLAN-BC,.\11868XREF-PROP-B&C&D-BC,.\11868XREF-PROP-PLAN-BD,.\11868XREF-PROP-B&C&D-BD,.\11868XREF-PROP-PLAN-BE,.\11868XREF-PROP-B&C&D-BE,.\11868XREF-PROP-PLAN-BF,.\11868XREF-PROP-B&C&D-BF,.\11868XREF-PROP-PLAN-BG,.\11868XREF-PROP-B&C&D-BG,.\11868XREF-PROP-PLAN-BH,.\11868XREF-PROP-B&C&D-BH,.\11868XREF-PROP-PLAN-BI,.\11868XREF-PROP-B&C&D-BI,.\11868XREF-PROP-PLAN-BJ,.\11868XREF-PROP-B&C&D-BJ,.\11868XREF-PROP-PLAN-BK,.\11868XREF-PROP-B&C&D-BK,.\11868XREF-PROP-PLAN-BL,.\11868XREF-PROP-B&C&D-BL,.\11868XREF-PROP-PLAN-BM,.\11868XREF-PROP-B&C&D-BM,.\11868XREF-PROP-PLAN-BN,.\11868XREF-PROP-B&C&D-BN,.\11868XREF-PROP-PLAN-BO,.\11868XREF-PROP-B&C&D-BO,.\11868XREF-PROP-PLAN-BP,.\11868XREF-PROP-B&C&D-BP,.\11868XREF-PROP-PLAN-BQ,.\11868XREF-PROP-B&C&D-BQ,.\11868XREF-PROP-PLAN-BR,.\11868XREF-PROP-B&C&D-BR,.\11868XREF-PROP-PLAN-BS,.\11868XREF-PROP-B&C&D-BS,.\11868XREF-PROP-PLAN-BT,.\11868XREF-PROP-B&C&D-BT,.\11868XREF-PROP-PLAN-BU,.\11868XREF-PROP-B&C&D-BU,.\11868XREF-PROP-PLAN-BV,.\11868XREF-PROP-B&C&D-BV,.\11868XREF-PROP-PLAN-BW,.\11868XREF-PROP-B&C&D-BW,.\11868XREF-PROP-PLAN-BX,.\11868XREF-PROP-B&C&D-BX,.\11868XREF-PROP-PLAN-BY,.\11868XREF-PROP-B&C&D-BY,.\11868XREF-PROP-PLAN-BZ,.\11868XREF-PROP-B&C&D-BZ,.\11868XREF-PROP-PLAN-CA,.\11868XREF-PROP-B&C&D-CA,.\11868XREF-PROP-PLAN-CB,.\11868XREF-PROP-B&C&D-CB,.\11868XREF-PROP-PLAN-CC,.\11868XREF-PROP-B&C&D-CC,.\11868XREF-PROP-PLAN-CD,.\11868XREF-PROP-B&C&D-CD,.\11868XREF-PROP-PLAN-CE,.\11868XREF-PROP-B&C&D-CE,.\11868XREF-PROP-PLAN-CF,.\11868XREF-PROP-B&C&D-CF,.\11868XREF-PROP-PLAN-CG,.\11868XREF-PROP-B&C&D-CG,.\11868XREF-PROP-PLAN-CH,.\11868XREF-PROP-B&C&D-CH,.\11868XREF-PROP-PLAN-CI,.\11868XREF-PROP-B&C&D-CI,.\11868XREF-PROP-PLAN-CJ,.\11868XREF-PROP-B&C&D-CJ,.\11868XREF-PROP-PLAN-CK,.\11868XREF-PROP-B&C&D-CK,.\11868XREF-PROP-PLAN-CL,.\11868XREF-PROP-B&C&D-CL,.\11868XREF-PROP-PLAN-CM,.\11868XREF-PROP-B&C&D-CM,.\11868XREF-PROP-PLAN-CN,.\11868XREF-PROP-B&C&D-CN,.\11868XREF-PROP-PLAN-CO,.\11868XREF-PROP-B&C&D-CO,.\11868XREF-PROP-PLAN-CP,.\11868XREF-PROP-B&C&D-CP,.\11868XREF-PROP-PLAN-CQ,.\11868XREF-PROP-B&C&D-CQ,.\11868XREF-PROP-PLAN-CR,.\11868XREF-PROP-B&C&D-CR,.\11868XREF-PROP-PLAN-CS,.\11868XREF-PROP-B&C&D-CS,.\11868XREF-PROP-PLAN-CT,.\11868XREF-PROP-B&C&D-CT,.\11868XREF-PROP-PLAN-CU,.\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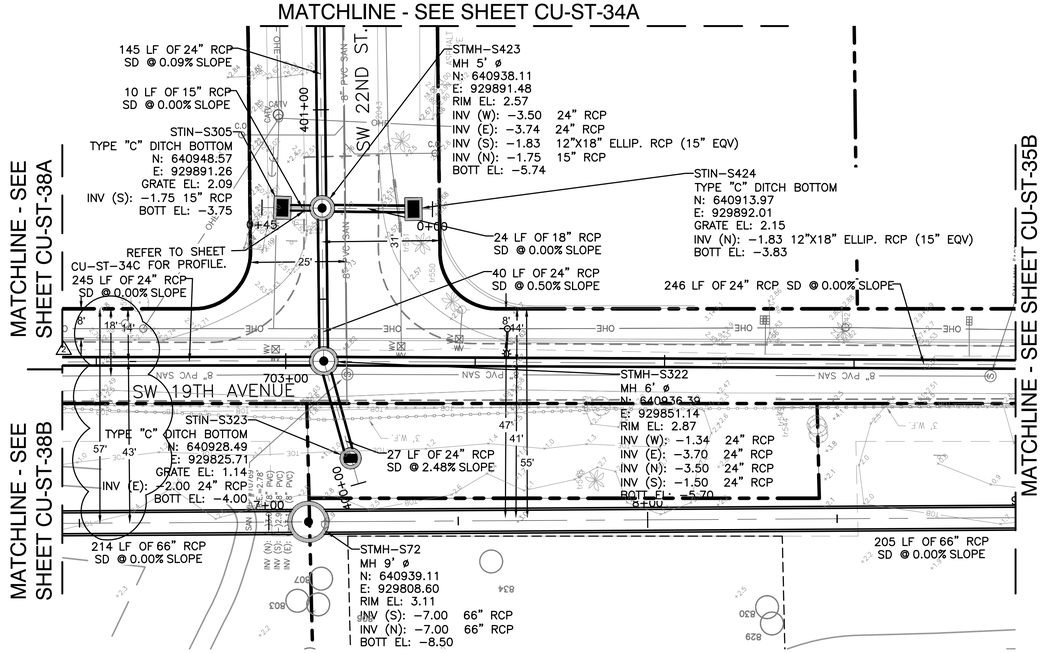
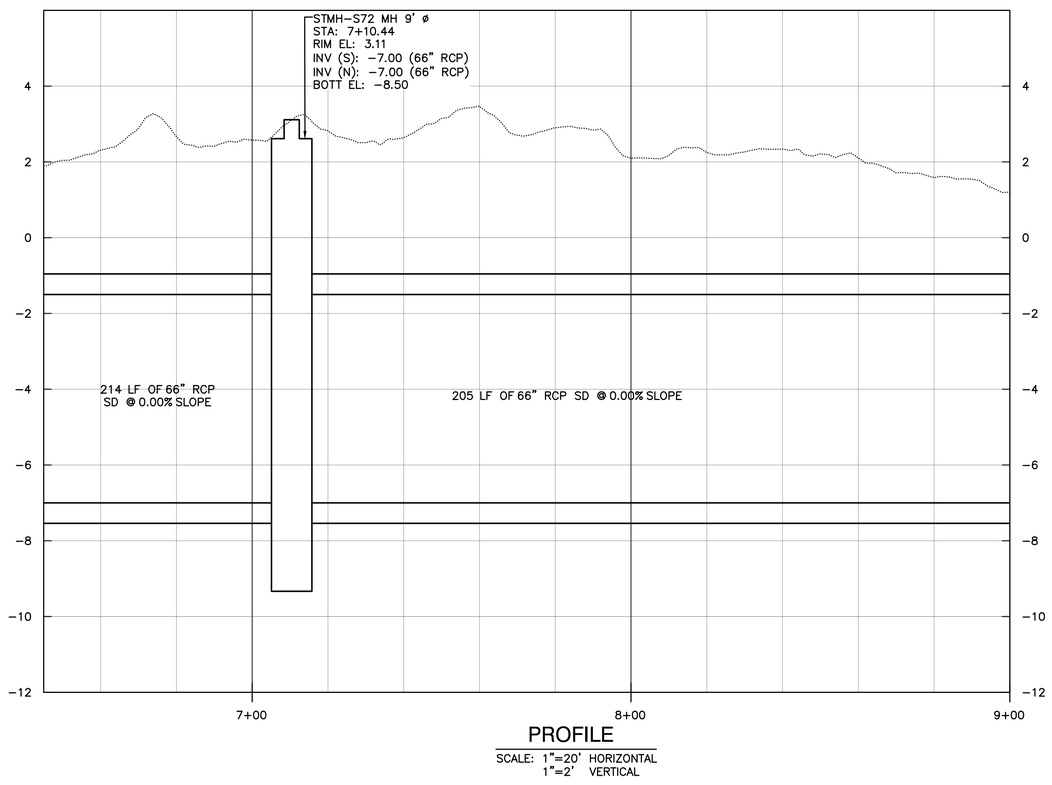


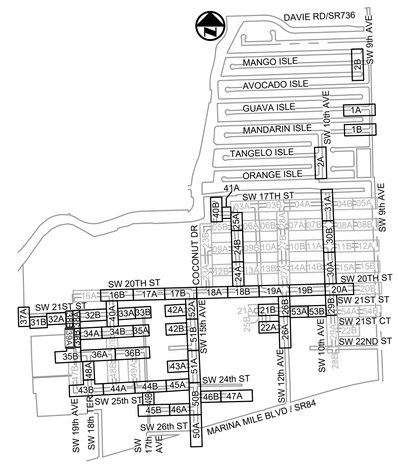
PLAN

SCALE: 1"=20'



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL



KEY MAP

N.T.S.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).
3. ALL AREAS DISTURBED DURING CONTSTRUCTION AT THE STORMWATER PRESERVE SHALL BE RESTORED TO SAME OR BETTER CONDITION, NOT LIMITED TO MUCK REPLACEMENT AND PLANTINGS ETC.

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Patrick J. Gibney, State of Florida, Professional Engineer, License No. 49428. This item has been electronically signed and sealed by Patrick J. Gibney on the date indicated here using an SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

8/26/2021

Hazen

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HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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ENGINEER: PATRICK J. GIBNEY
REG. No.: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

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PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY (CHK'D)	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-39A

TOTAL: 255

CAD FILE: 11868-CU-ST-B

DRAWING FILE NO. 4-142-42

CAM #22-0247
Exhibit 1C
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XREFs= .\11868XREFGRAD,.\11868XREF-PROP-PLAN-B,.\11868SURV,.\11868topo,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFNOTES,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master 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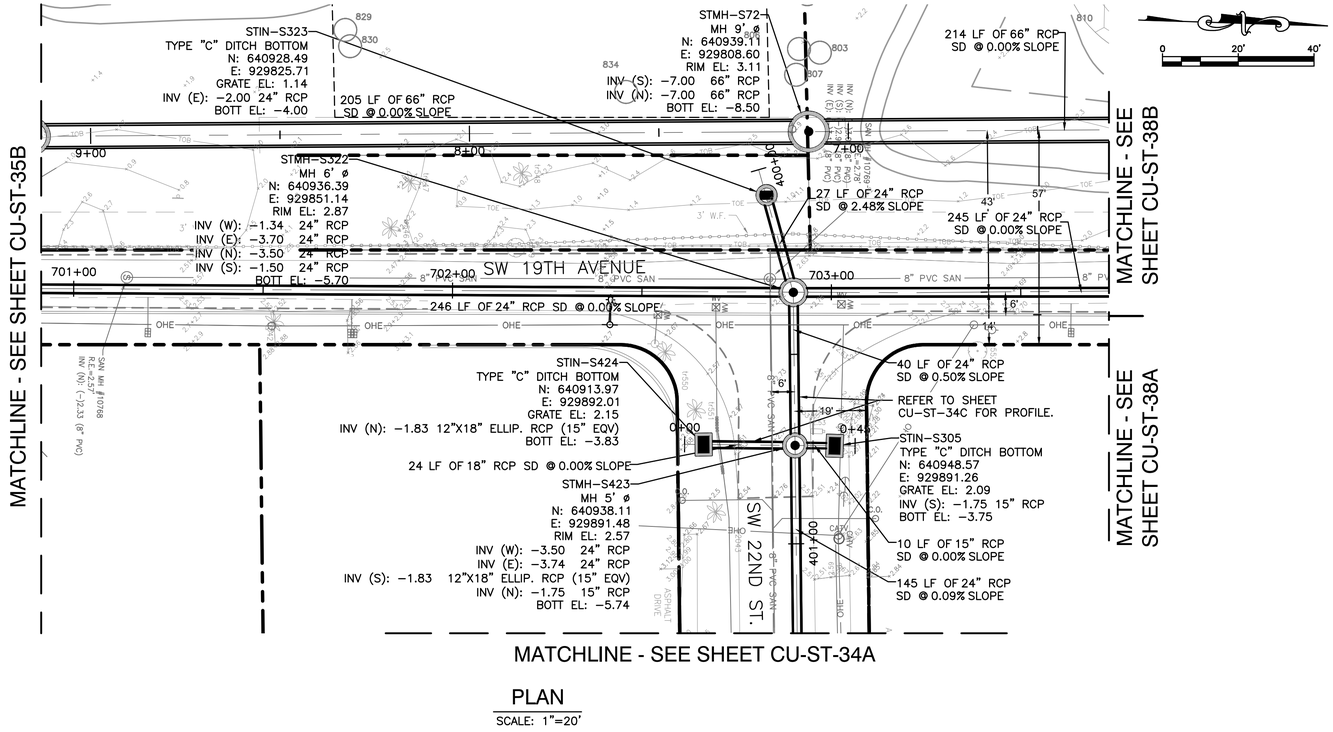

PLAN

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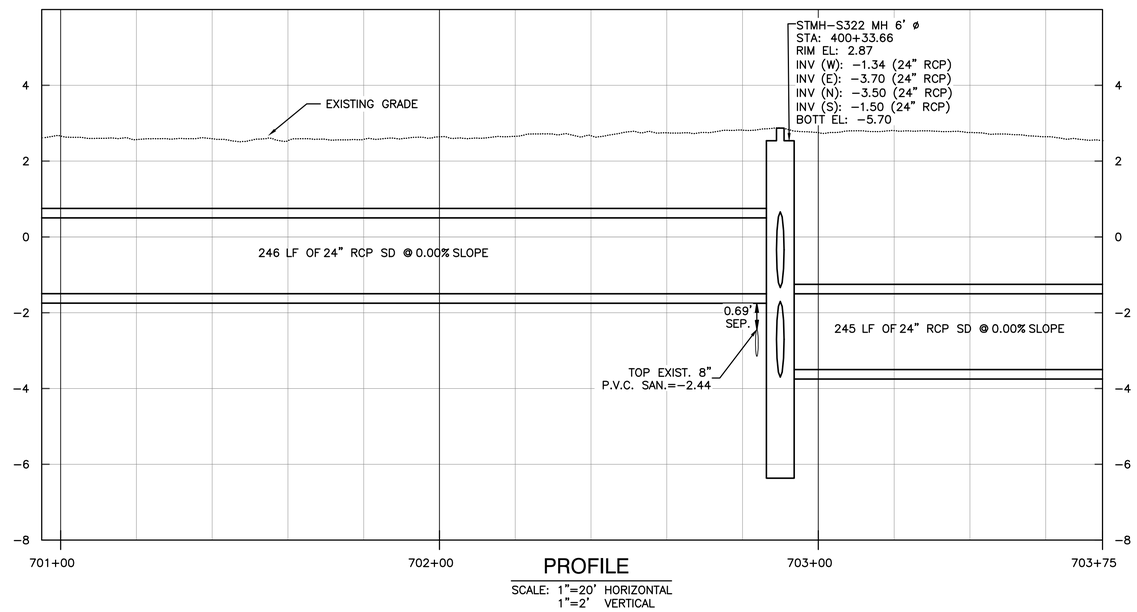

PROFILE

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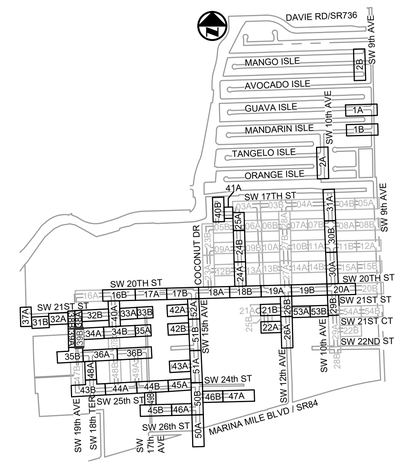
1"=2' VERTICAL



KEY MAP

N.T.S.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).

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ENGINEER: PATRICK J. GIBNEY
REG. No.: 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DESIGNED BY: XXX
DATE: 01/07/2019
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

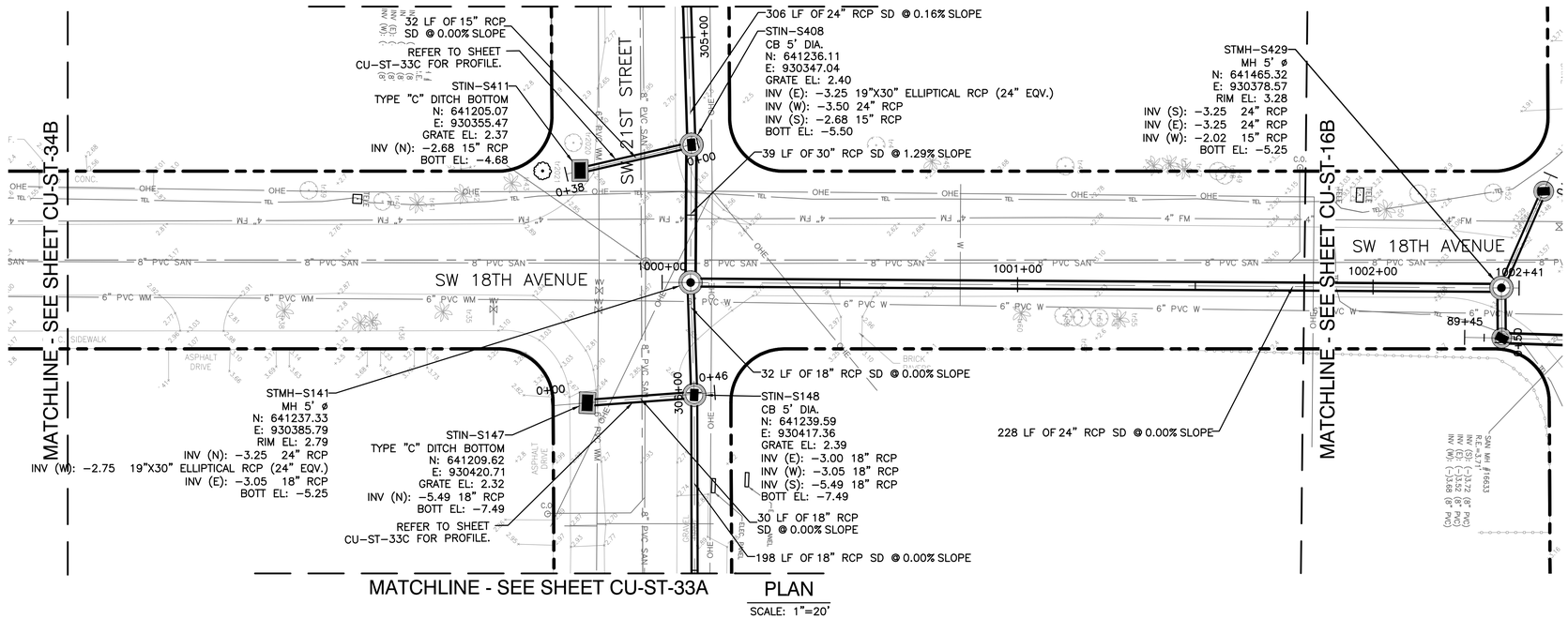
SHEET NO.
CU-ST-39B

TOTAL: 255

CAD FILE: 11868-CU-ST-B

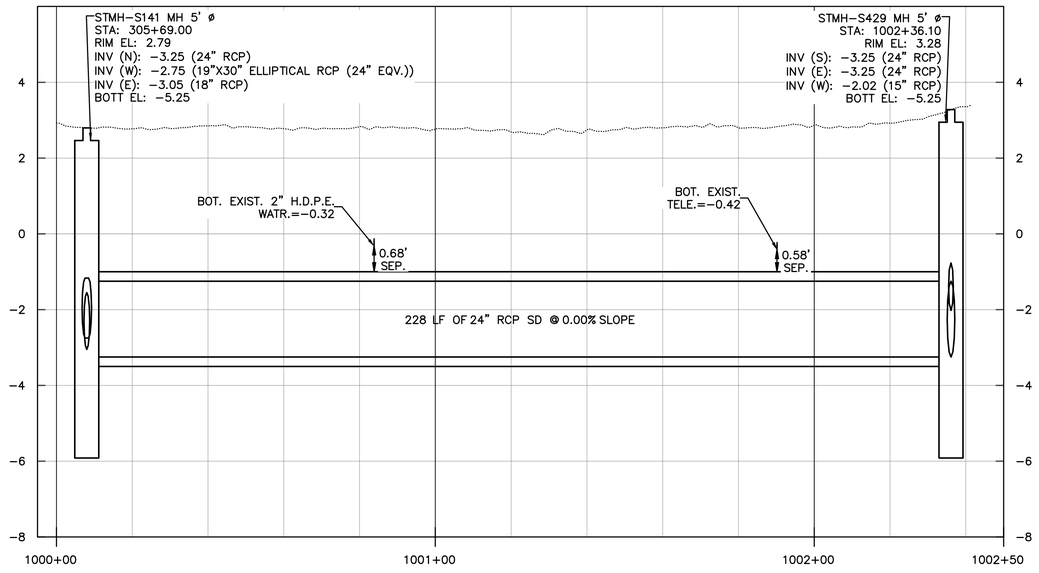
DRAWING FILE NO. 4-142-42

CAM #22-0947
Exhibit 1C
p. 1543
Page 27 of 85



PLAN

SCALE: 1"=20'



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

KEY MAP

N.T.S.

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REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

Hazen

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HOLLYWOOD, FLORIDA 33021

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ENGINEER: PATRICK J. GIBNEY
REG. No.: 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-40A

TOTAL: 255

CAD FILE: 11868-CU-ST-B

DRAWING FILE NO. 4-142-42

CAM #22-0947
Exhibit 1C
p. 1544

PLOT DATE: 8/27/2021 10:35 AM BY: MRODRIGUEZ
XREFs= .\11868XREFGRAD,.\11868XREF-PROP-PLAN-B,.\11868SURV,.\11868topo,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFNOTES,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFOUT,.\11868TOPOGRAPHY,.\11868XREF-PROP-B&C-B,.\11868XREF-PROP-B&C-B-V,.\11868XREF-PROP-B&C-B-H,.\11868XREF-PROP-B&C-B-T,.\11868XREF-PROP-B&C-B-TV,.\11868XREF-PROP-B&C-B-TH,.\11868XREF-PROP-B&C-B-TVH,.\11868XREF-PROP-B&C-B-TVH-1,.\11868XREF-PROP-B&C-B-TVH-2,.\11868XREF-PROP-B&C-B-TVH-3,.\11868XREF-PROP-B&C-B-TVH-4,.\11868XREF-PROP-B&C-B-TVH-5,.\11868XREF-PROP-B&C-B-TVH-6,.\11868XREF-PROP-B&C-B-TVH-7,.\11868XREF-PROP-B&C-B-TVH-8,.\11868XREF-PROP-B&C-B-TVH-9,.\11868XREF-PROP-B&C-B-TVH-10,.\11868XREF-PROP-B&C-B-TVH-11,.\11868XREF-PROP-B&C-B-TVH-12,.\11868XREF-PROP-B&C-B-TVH-13,.\11868XREF-PROP-B&C-B-TVH-14,.\11868XREF-PROP-B&C-B-TVH-15,.\11868XREF-PROP-B&C-B-TVH-16,.\11868XREF-PROP-B&C-B-TVH-17,.\11868XREF-PROP-B&C-B-TVH-18,.\11868XREF-PROP-B&C-B-TVH-19,.\11868XREF-PROP-B&C-B-TVH-20,.\11868XREF-PROP-B&C-B-TVH-21,.\11868XREF-PROP-B&C-B-TVH-22,.\11868XREF-PROP-B&C-B-TVH-23,.\11868XREF-PROP-B&C-B-TVH-24,.\11868XREF-PROP-B&C-B-TVH-25,.\11868XREF-PROP-B&C-B-TVH-26,.\11868XREF-PROP-B&C-B-TVH-27,.\11868XREF-PROP-B&C-B-TVH-28,.\11868XREF-PROP-B&C-B-TVH-29,.\11868XREF-PROP-B&C-B-TVH-30,.\11868XREF-PROP-B&C-B-TVH-31,.\11868XREF-PROP-B&C-B-TVH-32,.\11868XREF-PROP-B&C-B-TVH-33,.\11868XREF-PROP-B&C-B-TVH-34,.\11868XREF-PROP-B&C-B-TVH-35,.\11868XREF-PROP-B&C-B-TVH-36,.\11868XREF-PROP-B&C-B-TVH-37,.\11868XREF-PROP-B&C-B-TVH-38,.\11868XREF-PROP-B&C-B-TVH-39,.\11868XREF-PROP-B&C-B-TVH-40,.\11868XREF-PROP-B&C-B-TVH-41,.\11868XREF-PROP-B&C-B-TVH-42,.\11868XREF-PROP-B&C-B-TVH-43,.\11868XREF-PROP-B&C-B-TVH-44,.\11868XREF-PROP-B&C-B-TVH-45,.\11868XREF-PROP-B&C-B-TVH-46,.\11868XREF-PROP-B&C-B-TVH-47,.\11868XREF-PROP-B&C-B-TVH-48,.\11868XREF-PROP-B&C-B-TVH-49,.\11868XREF-PROP-B&C-B-TVH-50,.\11868XREF-PROP-B&C-B-TVH-51,.\11868XREF-PROP-B&C-B-TVH-52,.\11868XREF-PROP-B&C-B-TVH-53,.\11868XREF-PROP-B&C-B-TVH-54,.\11868XREF-PROP-B&C-B-TVH-55,.\11868XREF-PROP-B&C-B-TVH-56,.\11868XREF-PROP-B&C-B-TVH-57,.\11868XREF-PROP-B&C-B-TVH-58,.\11868XREF-PROP-B&C-B-TVH-59,.\11868XREF-PROP-B&C-B-TVH-60,.\11868XREF-PROP-B&C-B-TVH-61,.\11868XREF-PROP-B&C-B-TVH-62,.\11868XREF-PROP-B&C-B-TVH-63,.\11868XREF-PROP-B&C-B-TVH-64,.\11868XREF-PROP-B&C-B-TVH-65,.\11868XREF-PROP-B&C-B-TVH-66,.\11868XREF-PROP-B&C-B-TVH-67,.\11868XREF-PROP-B&C-B-TVH-68,.\11868XREF-PROP-B&C-B-TVH-69,.\11868XREF-PROP-B&C-B-TVH-70,.\11868XREF-PROP-B&C-B-TVH-71,.\11868XREF-PROP-B&C-B-TVH-72,.\11868XREF-PROP-B&C-B-TVH-73,.\11868XREF-PROP-B&C-B-TVH-74,.\11868XREF-PROP-B&C-B-TVH-75,.\11868XREF-PROP-B&C-B-TVH-76,.\11868XREF-PROP-B&C-B-TVH-77,.\11868XREF-PROP-B&C-B-TVH-78,.\11868XREF-PROP-B&C-B-TVH-79,.\11868XREF-PROP-B&C-B-TVH-80,.\11868XREF-PROP-B&C-B-TVH-81,.\11868XREF-PROP-B&C-B-TVH-82,.\11868XREF-PROP-B&C-B-TVH-83,.\11868XREF-PROP-B&C-B-TVH-84,.\11868XREF-PROP-B&C-B-TVH-85,.\11868XREF-PROP-B&C-B-TVH-86,.\11868XREF-PROP-B&C-B-TVH-87,.\11868XREF-PROP-B&C-B-TVH-88,.\11868XREF-PROP-B&C-B-TVH-89,.\11868XREF-PROP-B&C-B-TVH-90,.\11868XREF-PROP-B&C-B-TVH-91,.\11868XREF-PROP-B&C-B-TVH-92,.\11868XREF-PROP-B&C-B-TVH-93,.\11868XREF-PROP-B&C-B-TVH-94,.\11868XREF-PROP-B&C-B-TVH-95,.\11868XREF-PROP-B&C-B-TVH-96,.\11868XREF-PROP-B&C-B-TVH-97,.\11868XREF-PROP-B&C-B-TVH-98,.\11868XREF-PROP-B&C-B-TVH-99,.\11868XREF-PROP-B&C-B-TVH-100,.\11868XREF-PROP-B&C-B-TVH-101,.\11868XREF-PROP-B&C-B-TVH-102,.\11868XREF-PROP-B&C-B-TVH-103,.\11868XREF-PROP-B&C-B-TVH-104,.\11868XREF-PROP-B&C-B-TVH-105,.\11868XREF-PROP-B&C-B-TVH-106,.\11868XREF-PROP-B&C-B-TVH-107,.\11868XREF-PROP-B&C-B-TVH-108,.\11868XREF-PROP-B&C-B-TVH-109,.\11868XREF-PROP-B&C-B-TVH-110,.\11868XREF-PROP-B&C-B-TVH-111,.\11868XREF-PROP-B&C-B-TVH-112,.\11868XREF-PROP-B&C-B-TVH-113,.\11868XREF-PROP-B&C-B-TVH-114,.\11868XREF-PROP-B&C-B-TVH-115,.\11868XREF-PROP-B&C-B-TVH-116,.\11868XREF-PROP-B&C-B-TVH-117,.\11868XREF-PROP-B&C-B-TVH-118,.\11868XREF-PROP-B&C-B-TVH-119,.\11868XREF-PROP-B&C-B-TVH-120,.\11868XREF-PROP-B&C-B-TVH-121,.\11868XREF-PROP-B&C-B-TVH-122,.\11868XREF-PROP-B&C-B-TVH-123,.\11868XREF-PROP-B&C-B-TVH-124,.\11868XREF-PROP-B&C-B-TVH-125,.\11868XREF-PROP-B&C-B-TVH-126,.\11868XREF-PROP-B&C-B-TVH-127,.\11868XREF-PROP-B&C-B-TVH-128,.\11868XREF-PROP-B&C-B-TVH-129,.\11868XREF-PROP-B&C-B-TVH-130,.\11868XREF-PROP-B&C-B-TVH-131,.\11868XREF-PROP-B&C-B-TVH-132,.\11868XREF-PROP-B&C-B-TVH-133,.\11868XREF-PROP-B&C-B-TVH-134,.\11868XREF-PROP-B&C-B-TVH-135,.\11868XREF-PROP-B&C-B-TVH-136,.\11868XREF-PROP-B&C-B-TVH-137,.\11868XREF-PROP-B&C-B-TVH-138,.\11868XREF-PROP-B&C-B-TVH-139,.\11868XREF-PROP-B&C-B-TVH-140,.\11868XREF-PROP-B&C-B-TVH-141,.\11868XREF-PROP-B&C-B-TVH-142,.\11868XREF-PROP-B&C-B-TVH-143,.\11868XREF-PROP-B&C-B-TVH-144,.\11868XREF-PROP-B&C-B-TVH-145,.\11868XREF-PROP-B&C-B-TVH-146,.\11868XREF-PROP-B&C-B-TVH-147,.\11868XREF-PROP-B&C-B-TVH-148,.\11868XREF-PROP-B&C-B-TVH-149,.\11868XREF-PROP-B&C-B-TVH-150,.\11868XREF-PROP-B&C-B-TVH-151,.\11868XREF-PROP-B&C-B-TVH-152,.\11868XREF-PROP-B&C-B-TVH-153,.\11868XREF-PROP-B&C-B-TVH-154,.\11868XREF-PROP-B&C-B-TVH-155,.\11868XREF-PROP-B&C-B-TVH-156,.\11868XREF-PROP-B&C-B-TVH-157,.\11868XREF-P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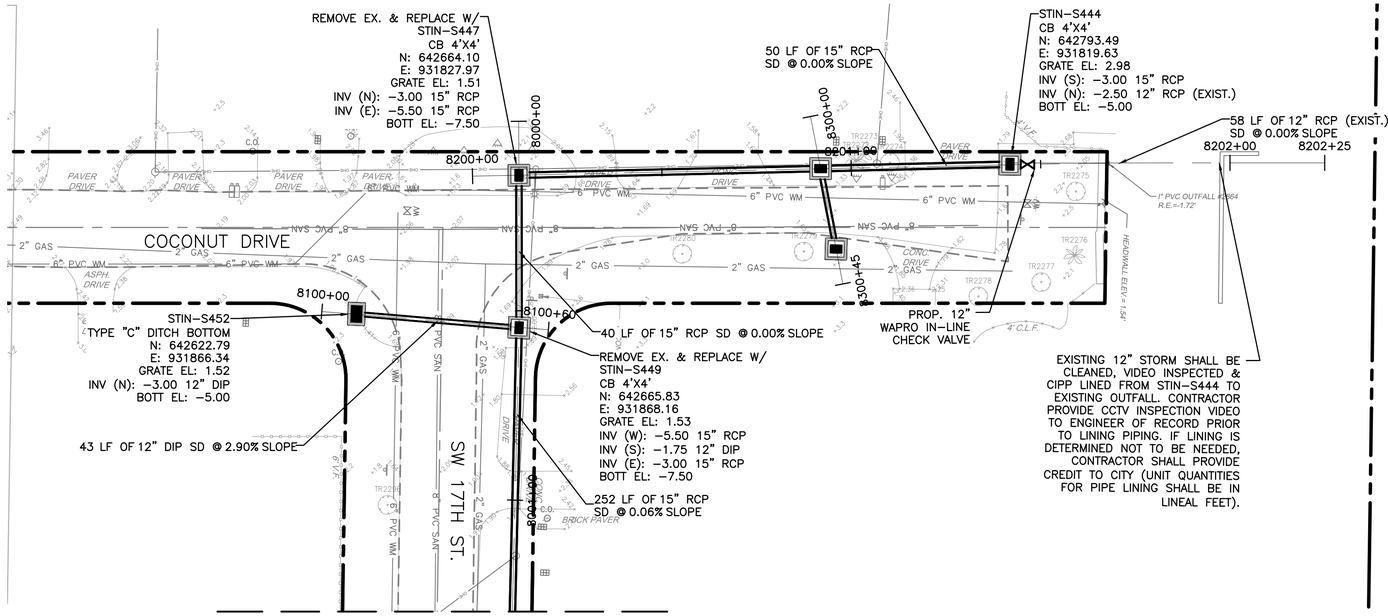


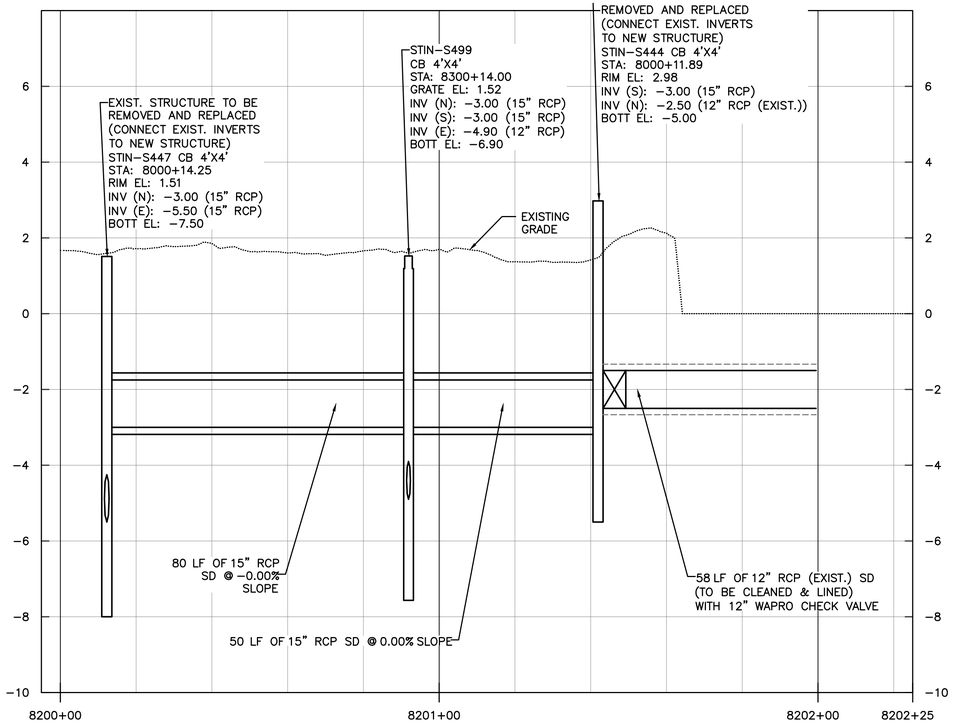
MATCHLINE - SEE SHEET CU-ST-41A

PLAN

SCALE: 1"=20'

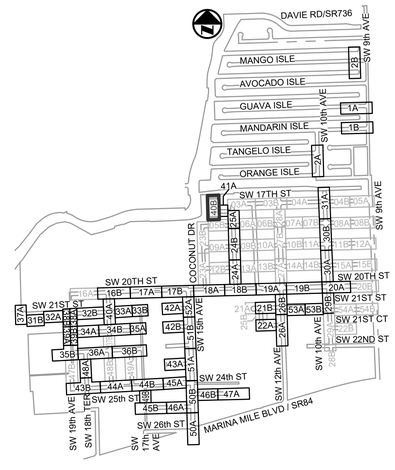
PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL



KEY MAP

N.T.S.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ–DT–22).

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Patrick J. Gibney, State of Florida, Professional Engineer, License No. 49428. This item has been electronically signed and sealed by Patrick J. Gibney on the date indicated here using an SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

8/26/2021

CONSTRUCTION SET

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HOLLYWOOD, FLORIDA 33021

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ENGINEER: PATRICK J. GIBNEY
REG. No. 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DESIGNED BY: XXX
DATE: 01/07/2019
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

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PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

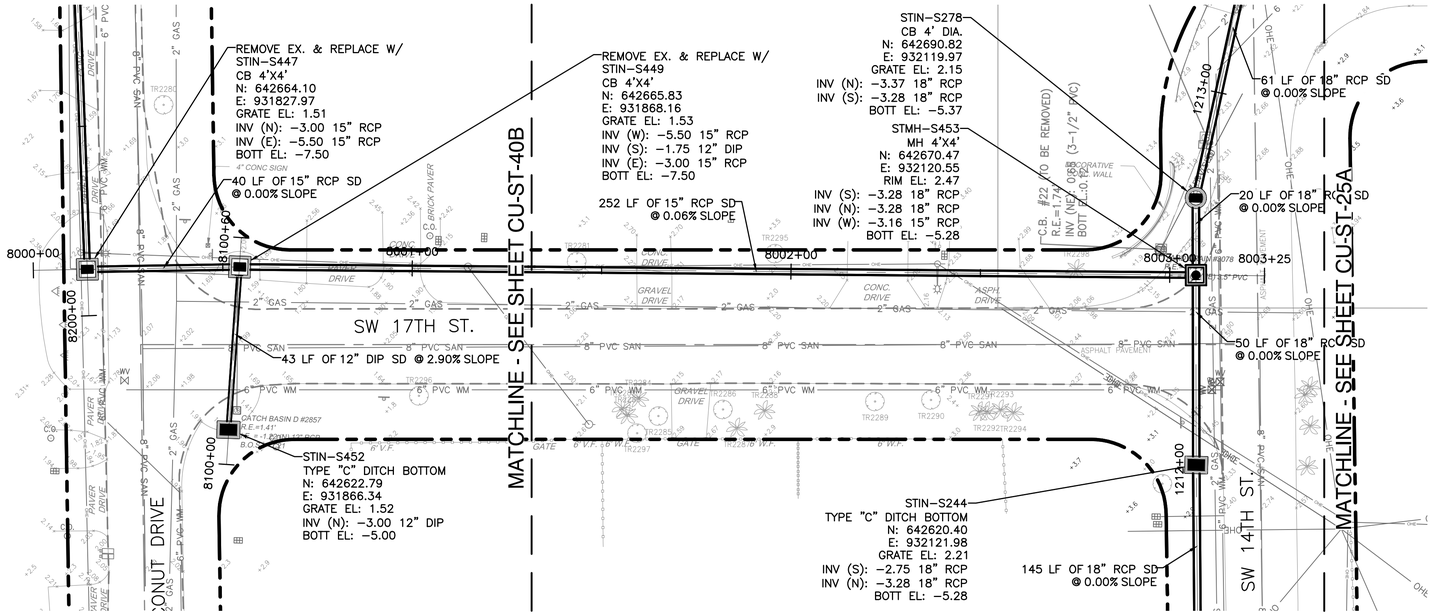
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-40B

TOTAL: 255

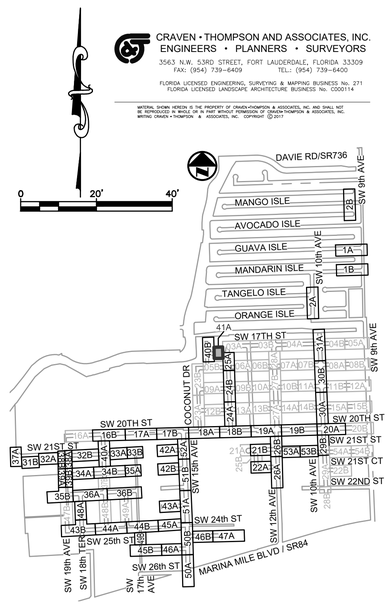
CAD FILE: 11868–CU–ST–B

DRAWING FILE NO. 4–142–42



PLAN

SCALE: 1"=20'



KEY MAP

N.T.S.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

NOTES:

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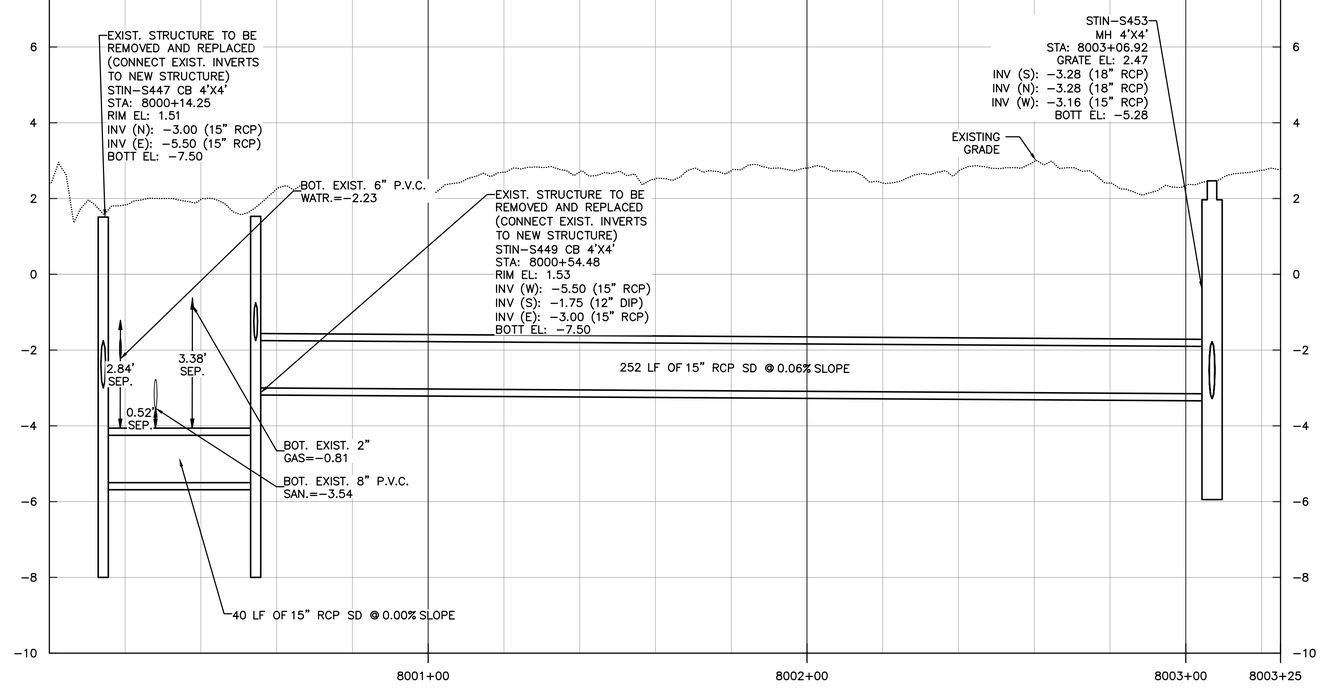
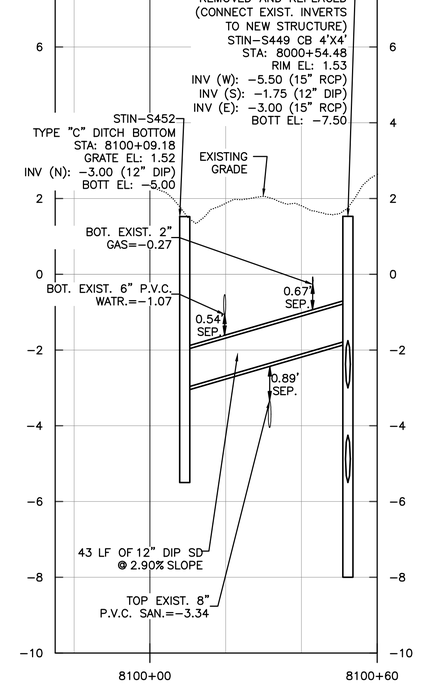
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ–DT–22).



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

S.W. 23RD STREET
(SEE SHEET CU-ST-40B)

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HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021
Certificate of Authorization No: 2771

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FAX: (954) 739-6409 TEL: (954) 739-6400
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ENGINEER: PATRICK J. GIBNEY
REG. NO.: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

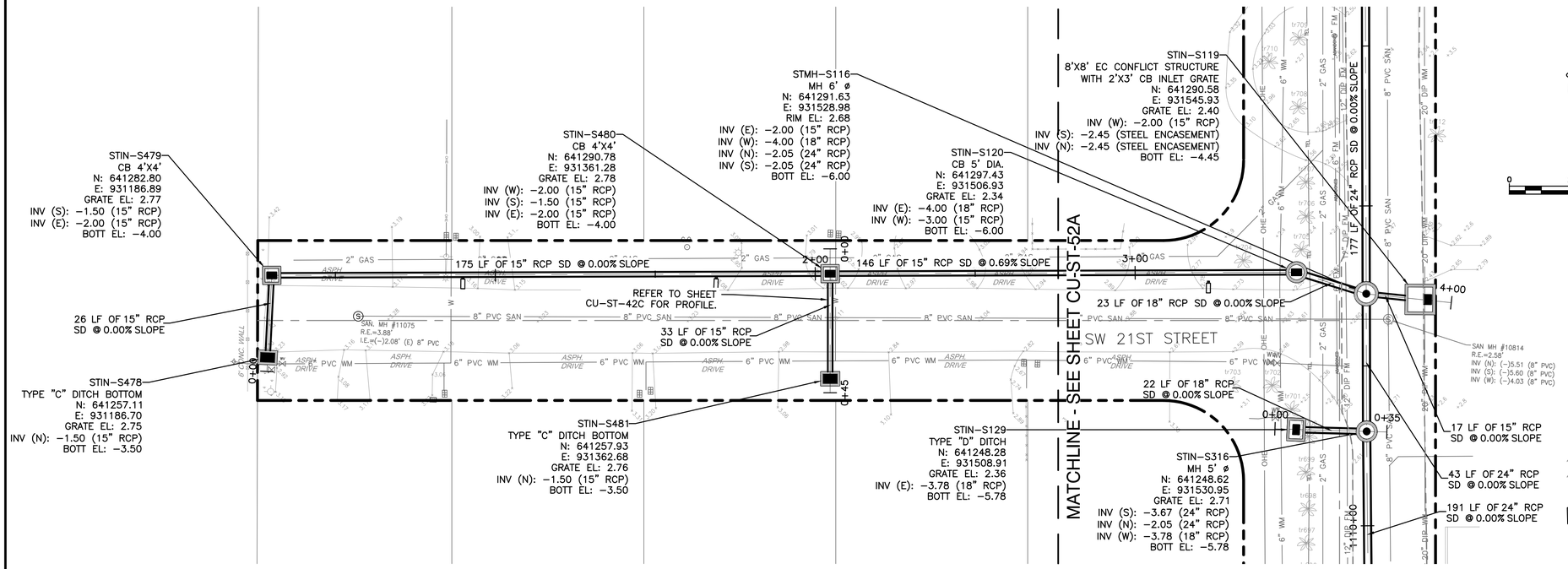
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-41A

TOTAL: 255

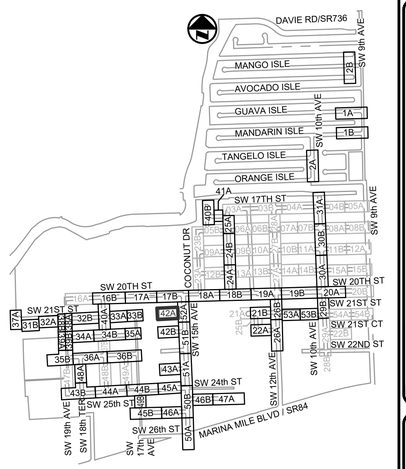
CAD FILE: 11868–CU–ST–B

DRAWING FILE NO. 4–142–42



PLAN

SCALE: 1"=20'



KEY MAP

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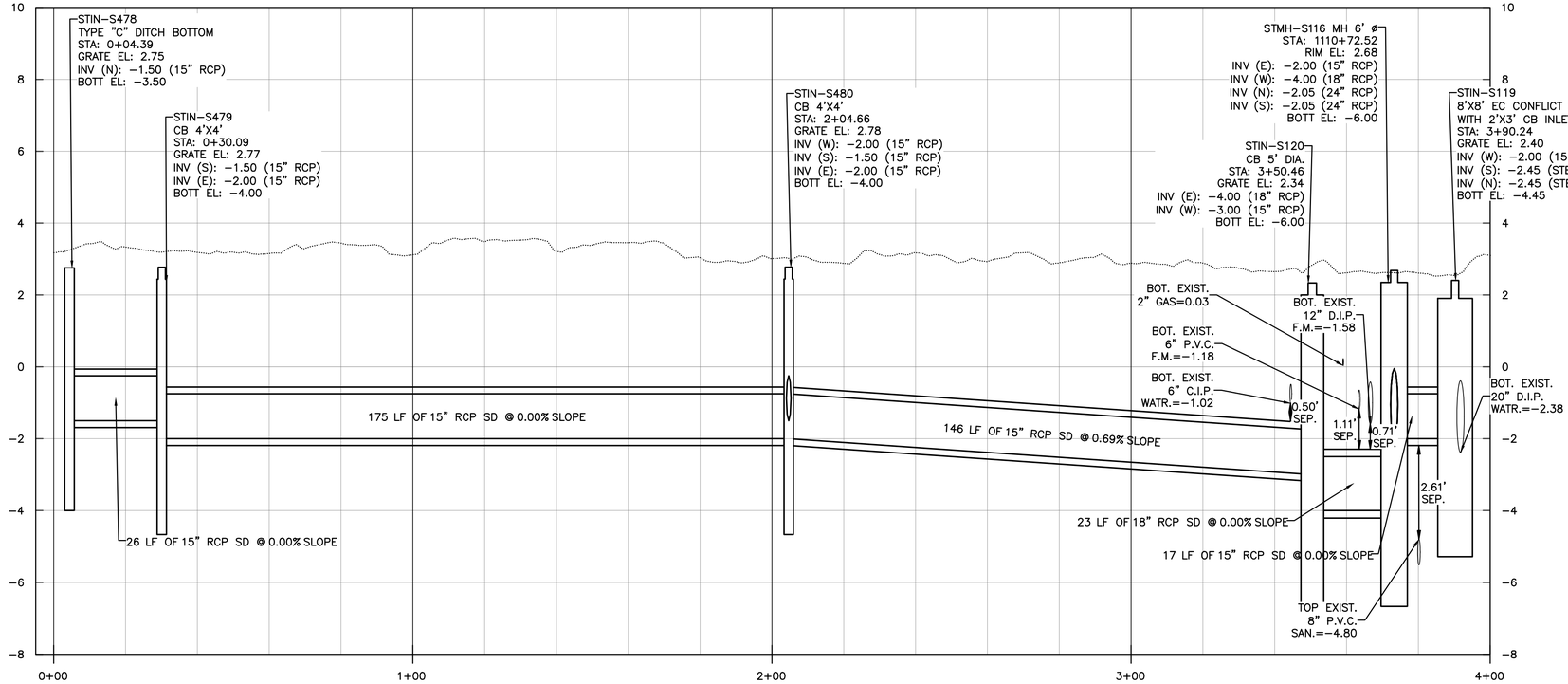

PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

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ENGINEER: PATRICK J. GIBNEY
FLA. NO. 49428
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TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DESIGNED BY: XXX
DATE: 01/07/2019
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

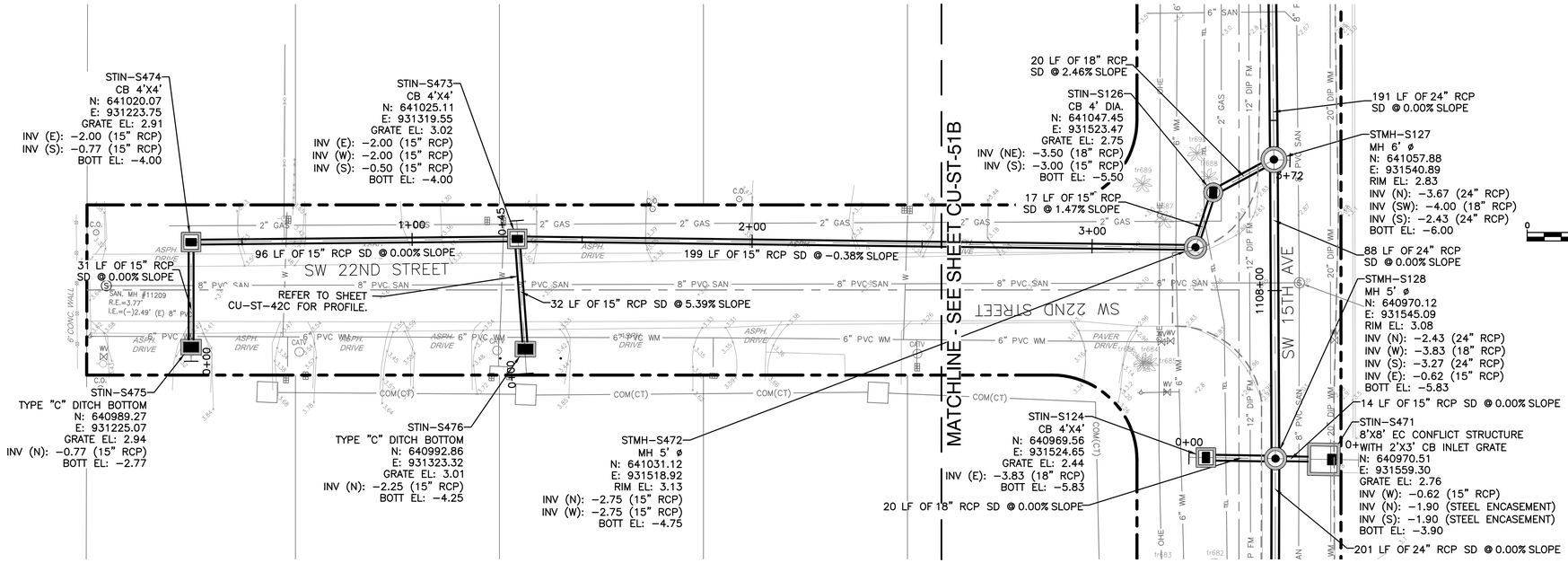
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-42A

TOTAL: 255

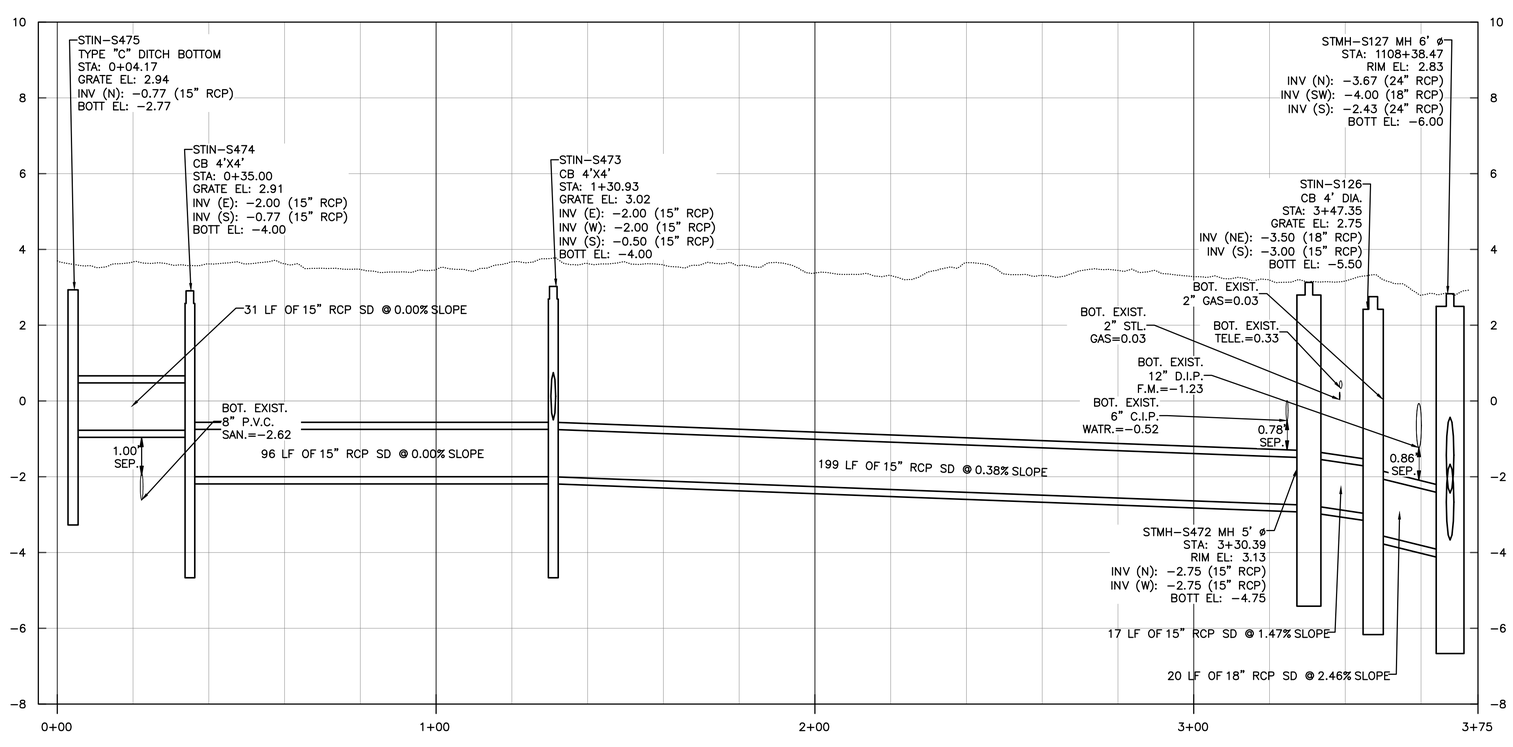
CAD FILE: 11868-CU-ST-C

DRAWING FILE NO. 4-142-42



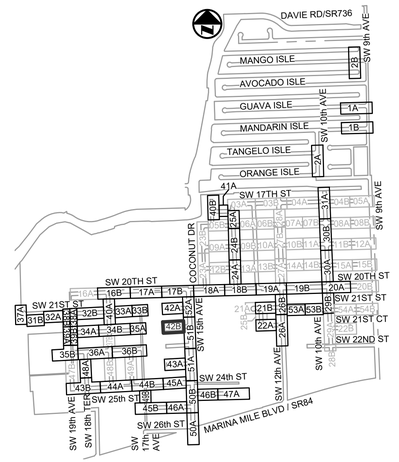
PLAN

SCALE: 1"=20'



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL



KEY MAP

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FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
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ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

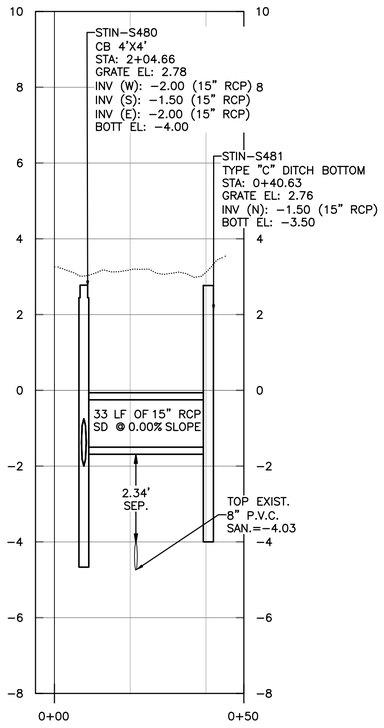
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-42B

TOTAL: 255

CAD FILE: 11868-CU-ST-C

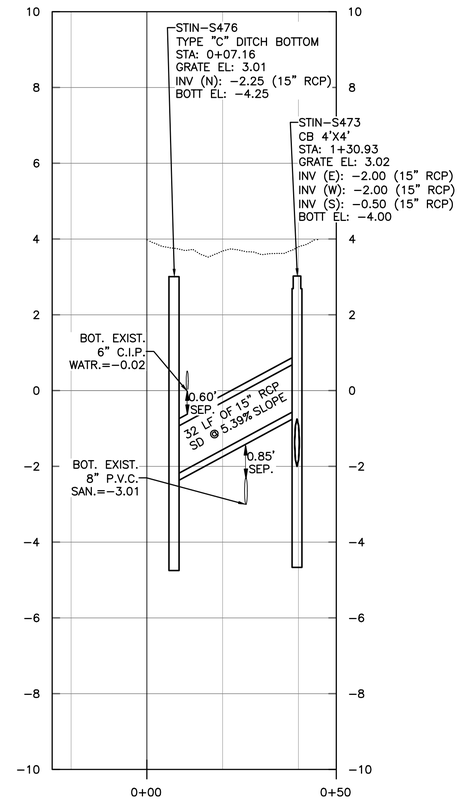
DRAWING FILE NO. 4-142-42



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

S.W. 22ND STREET
(SEE SHEET CU-ST-42A)
STA:2+05



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

S.W. 22ND STREET
(SEE SHEET CU-ST-42B)
STA:1+40

Hazen

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4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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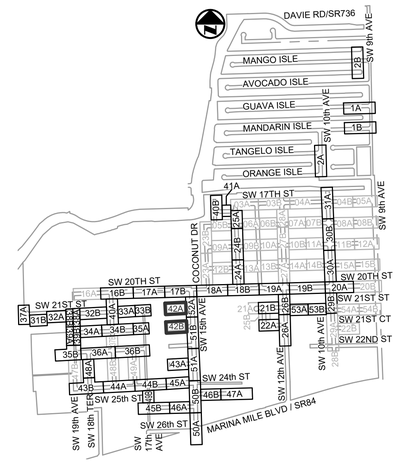

KEY MAP

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ENGINEER: PATRICK J. GIBNEY
REG. No.: 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

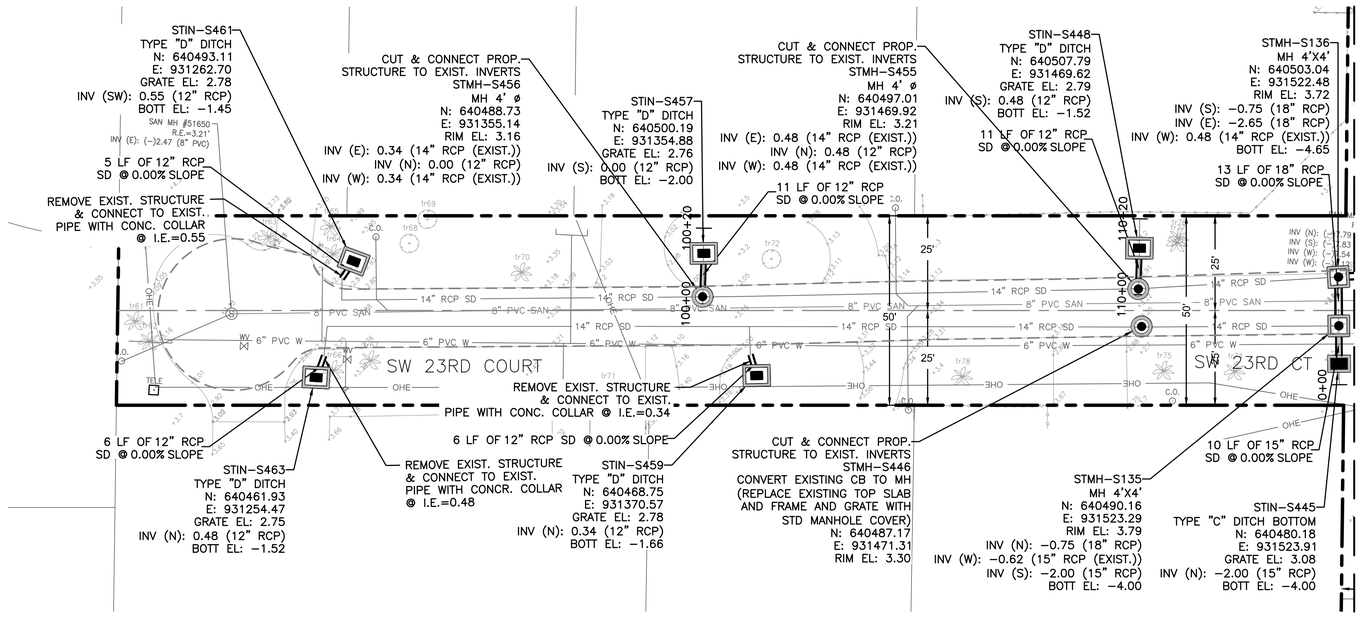
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-42C

TOTAL: 255

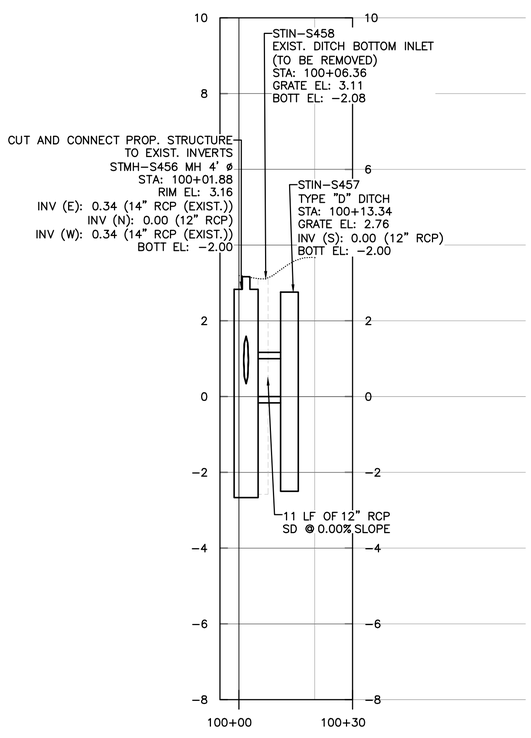
CAD FILE: 11868-CU-ST-C

DRAWING FILE NO. 4-142-42



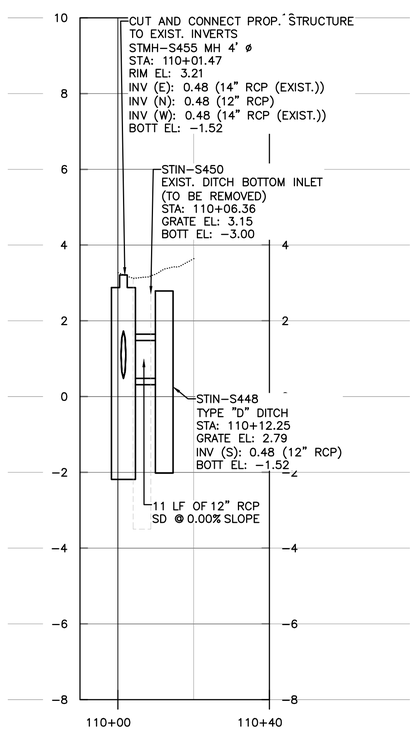
PLAN

SCALE: 1"=20'



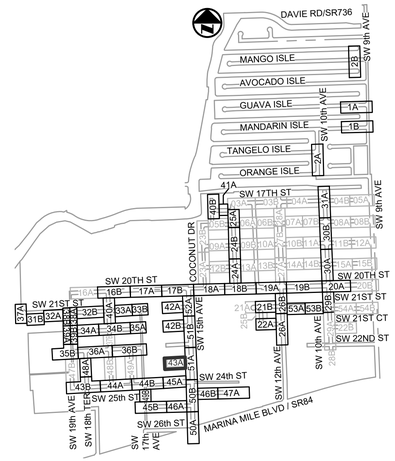
PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL



KEY MAP

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Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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ENGINEER:
PATRICK J. GIBNEY
P.E. No. 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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CONSTRUCTION SET

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-43A

TOTAL: 255

CAD FILE:
11868-CU-ST-C

DRAWING FILE NO.
4-142-42

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REG. No.: 49428
DATE: 01/22/2021

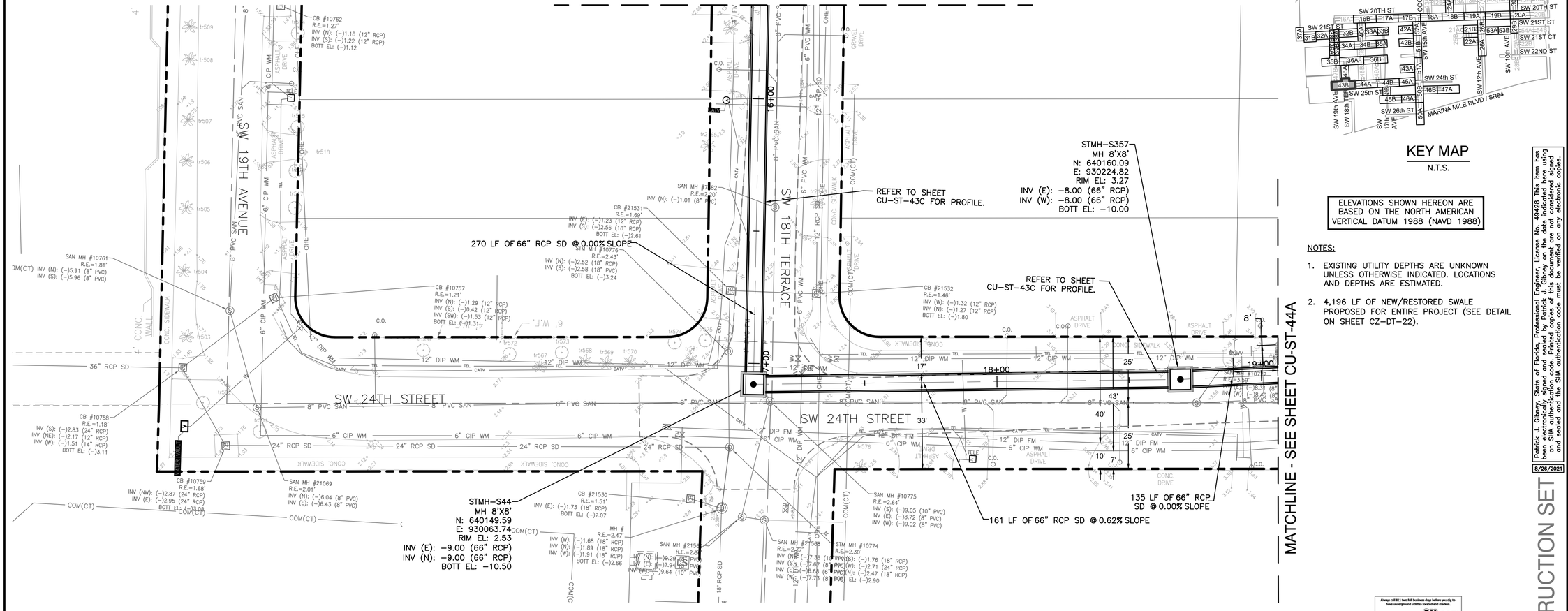
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY:	DATE:	01072019
XXX		
DESIGNED BY:	SCALE:	1"=20'
XXX		
CHECKED BY:	FIELD BOOK:	XXXX
XXX		

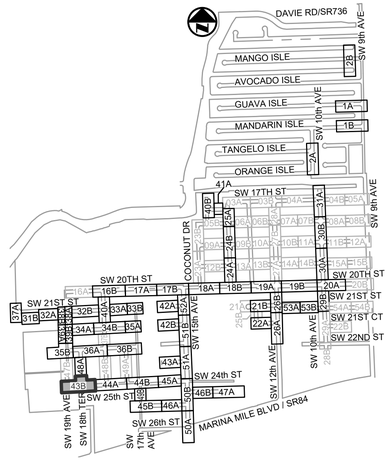
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

NO.	DATE	BY	CHK'D	DESCRIPTION

REVISIONS



PLAN
SCALE: 1"=20'



KEY MAP
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CONSTRUCTION SET

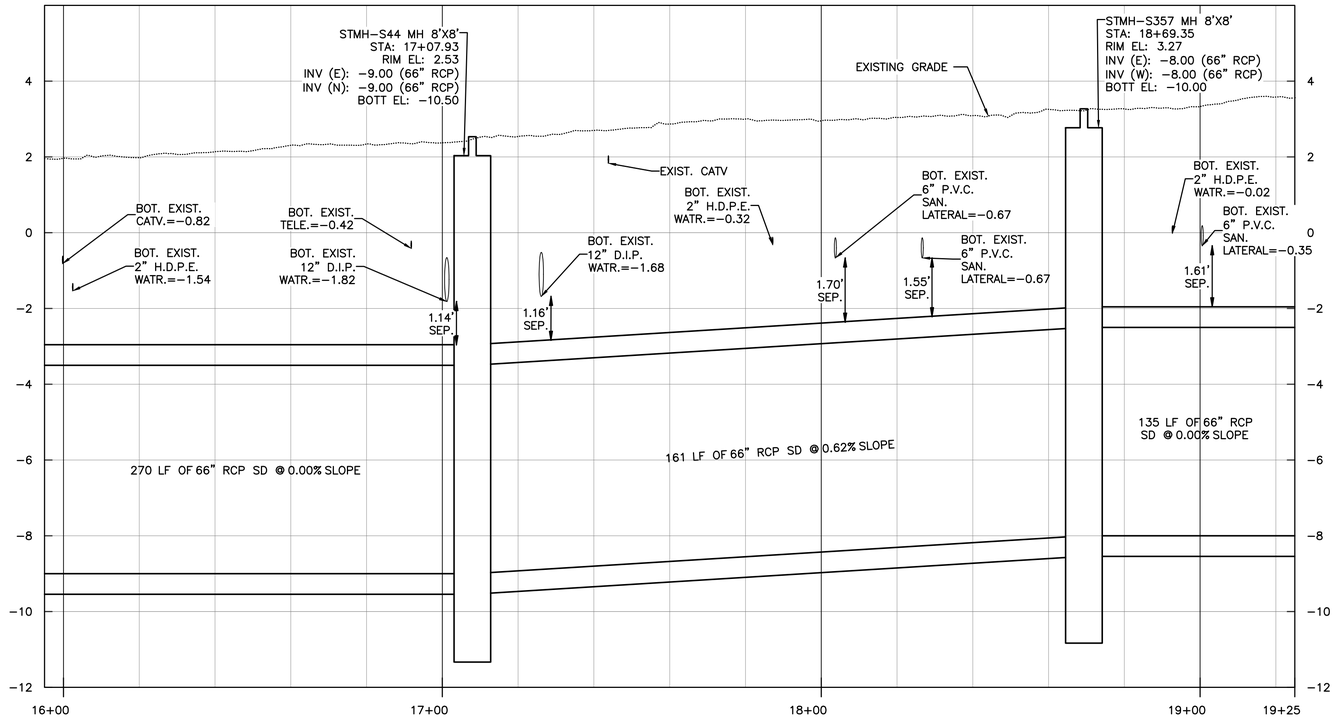
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-43B

TOTAL: 255

CAD FILE:
11868-CU-ST-C

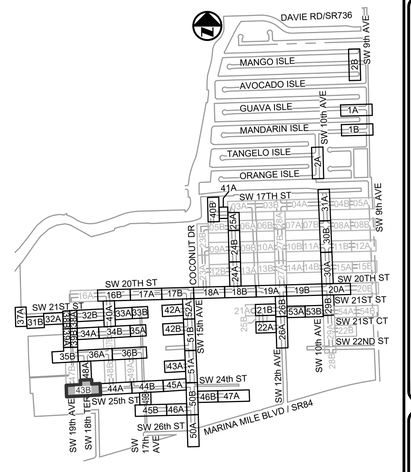
DRAWING FILE NO.
4-142-42



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

S.W. 20TH STREET
(SEE SHEET CU-ST-43B)



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Certificate of Authorization No: 2771

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3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL.: (954) 739-6400

FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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ENGINEER: PATRICK J. GIBNEY
REG. No.: 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

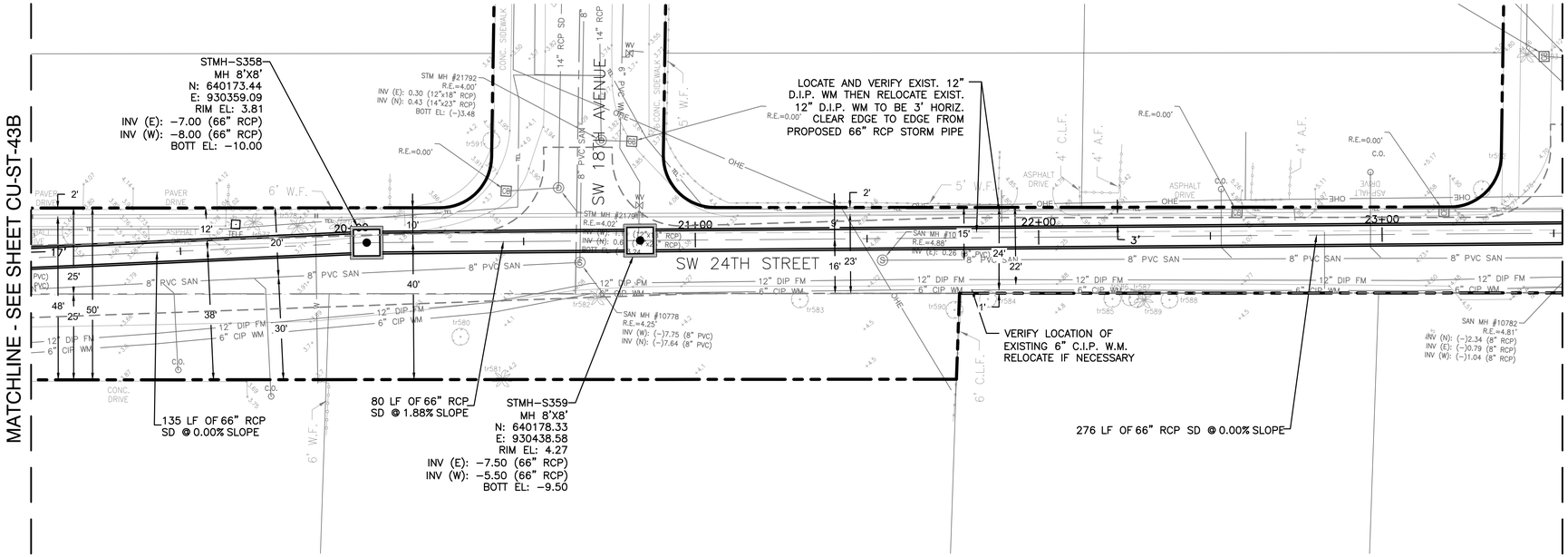
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-43C

TOTAL: 255

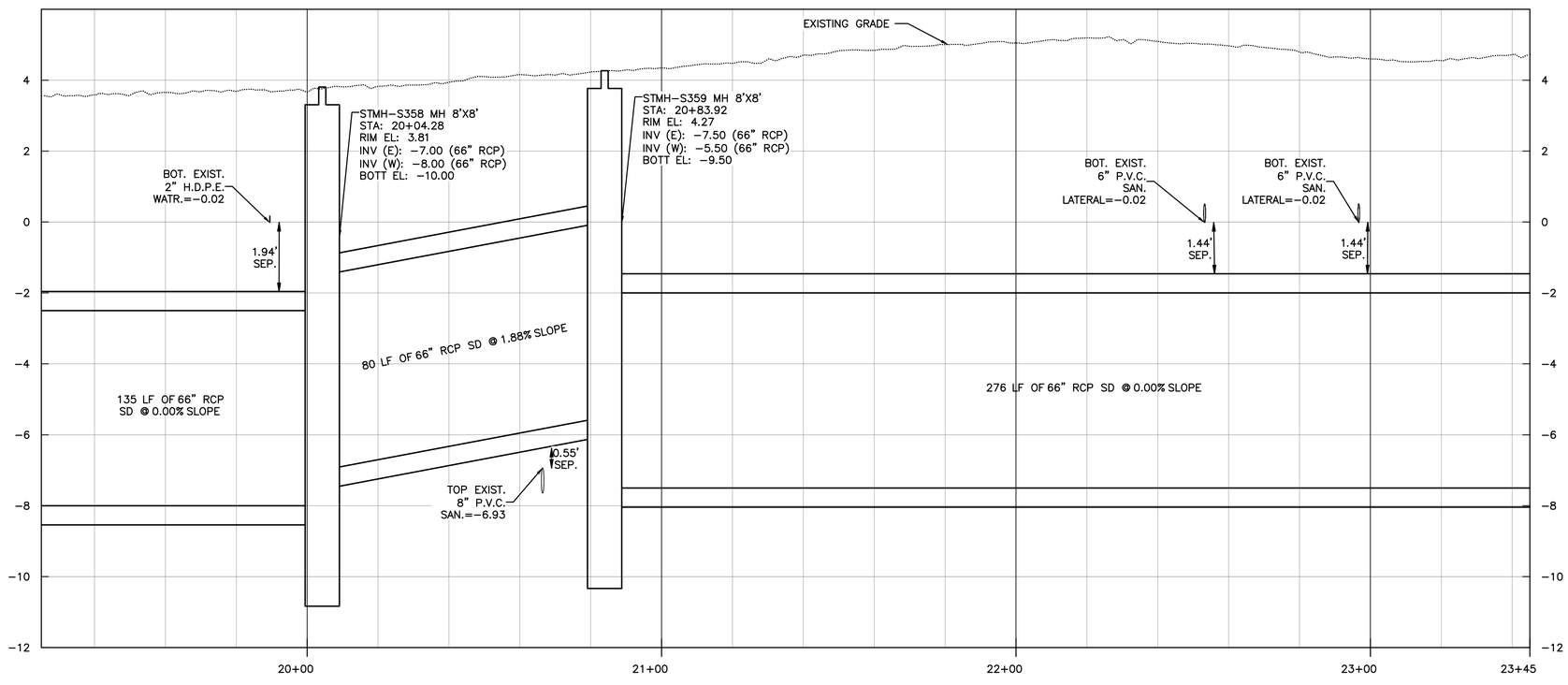
CAD FILE: 11868-CU-ST-C

DRAWING FILE NO. 4-142-42



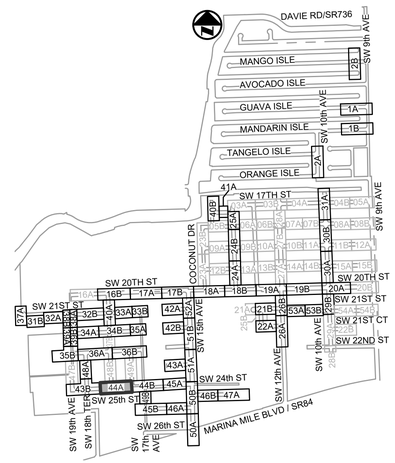
PLAN

SCALE: 1"=20'



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL



KEY MAP

N.T.S.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).

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PROJECT # 11868
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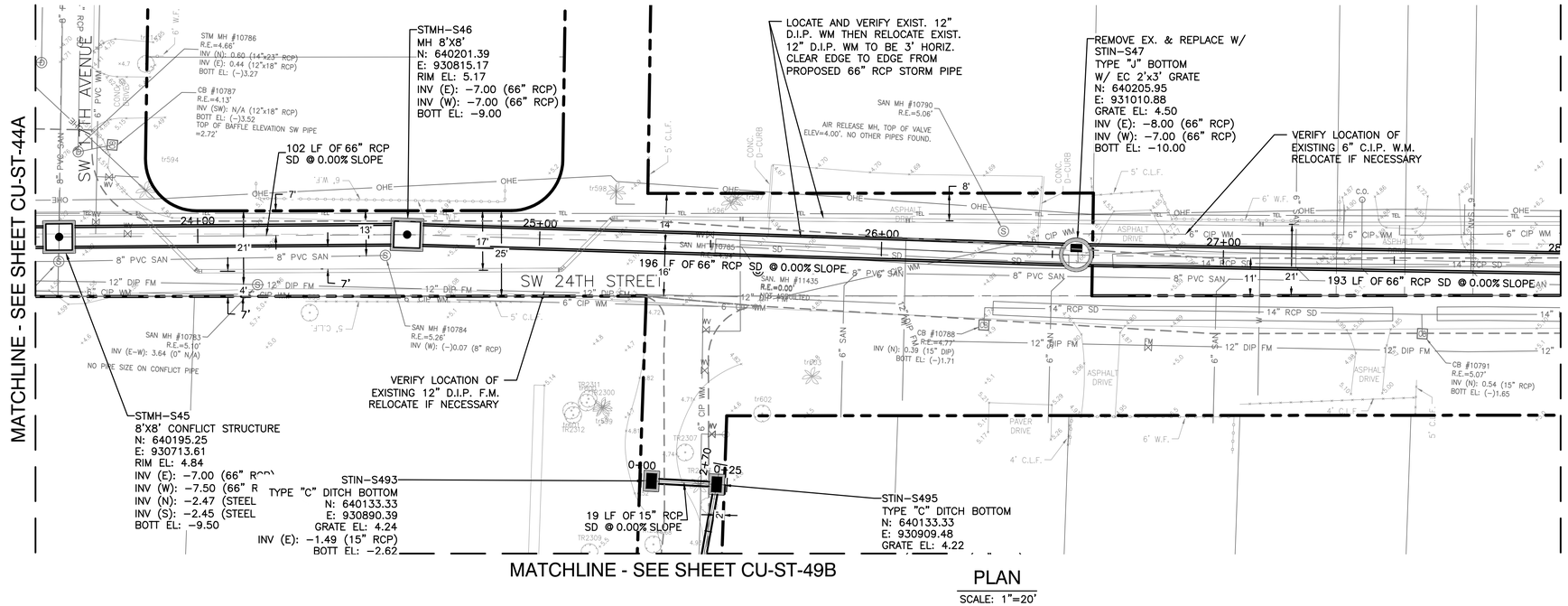
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-44A

TOTAL: 255

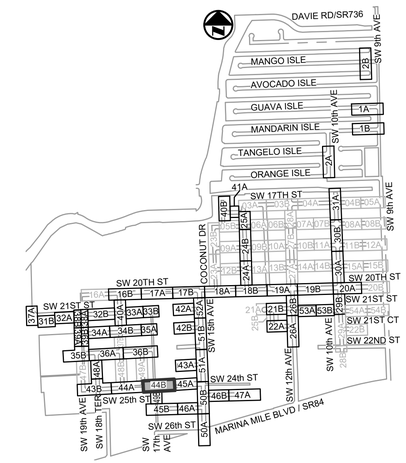
CAD FILE: 11868-CU-ST-C

DRAWING FILE NO. 4-142-42



PLAN

SCALE: 1"=20'



KEY MAP

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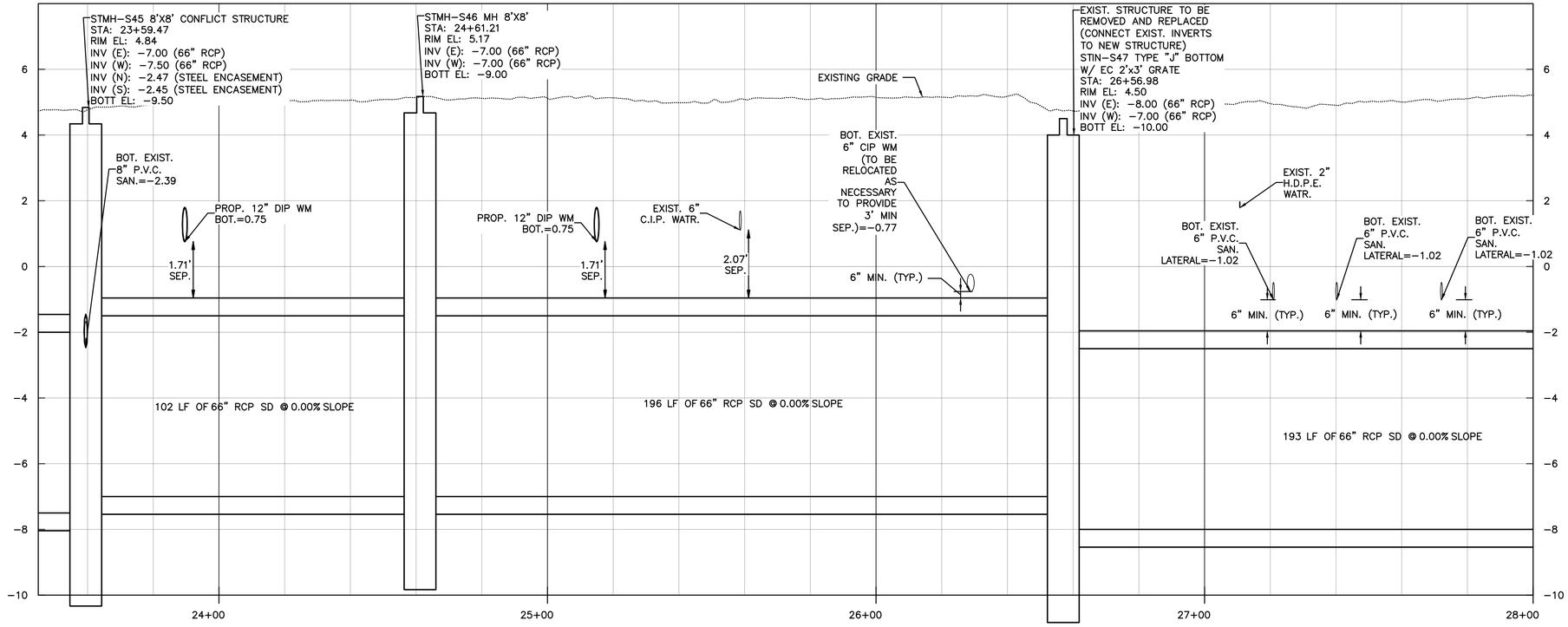

PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

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RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-44B

TOTAL: 255

CAD FILE: 11868-CU-ST-C

DRAWING FILE NO. 4-142-42

MATCHLINE - SEE SHEET CU-ST-44B

MATCHLINE - SEE SHEET CU-ST-50B

LOCATE AND VERIFY EXIST. 12" D.I.P. WM THEN RELOCATE EXIST. 12" D.I.P. WM TO BE 3' HORIZ. CLEAR EDGE TO EDGE FROM PROPOSED 66" RCP STORM PIPE

REFER TO SHEET CU-ST-45C FOR PROFILE.

REMOVE EX. & REPLACE W/ STIN-S51 MH 8'X8' N: 640220.11 E: 931365.35 GRATE EL: 4.91 INV (E): -8.00 (66" RCP) INV (W): -8.00 (66" RCP) INV (S): 0.00 (15" RCP) INV (N): 0.00 (15" RCP) BOTT EL: -10.00

STIN-S412 TYPE "C" DITCH BOTTOM N: 640228.22 E: 931364.91 GRATE EL: 4.46 INV (S): 0.00 (15" RCP) BOTT EL: -2.00

185 LF OF 24" RCP SD @ 0.00% SLOPE

10 LF OF 24" RCP SD @ 0.00% SLOPE

REMOVE EX. & REPLACE W/ STIN-S403 CB 5' DIA. N: 640275.11 E: 931558.43 GRATE EL: 4.71 INV (S): -1.00 (24" RCP) INV (E): -3.84 (24" RCP) BOTT EL: -5.84

39 LF OF 24" RCP SD @ 0.00% SLOPE

LOCATE AND VERIFY EXIST. 12" D.I.P. WM THEN RELOCATE EXIST. 12" D.I.P. WM TO BE 3' HORIZ. CLEAR EDGE TO EDGE FROM PROPOSED 66" RCP STORM PIPE

STIN-S414 TYPE "C" DITCH BOTTOM N: 640220.49 E: 931203.92 GRATE EL: 4.88 INV (S): -0.12 (15" RCP) BOTT EL: -2.12

7 LF OF 15" RCP SD @ 0.00% SLOPE

REFER TO SHEET CU-ST-45C FOR PROFILE.

13 LF OF 15" RCP SD @ 0.00% SLOPE

8 LF OF 15" RCP SD @ 0.00% SLOPE

29 LF OF 66" RCP SD @ 0.00% SLOPE

SW 24TH STREET

SW 24TH ST

161 LF OF 66" RCP SD @ 0.00% SLOPE

STMH-S401 MH 6'X6' N: 640207.83 E: 931362.38 RIM EL: 5.02 INV (N): 0.00 (15" RCP) INV (S): 0.40 (15" RCP) INV (W): 0.38 (15" RCP (EXIST. W/ NEW PRB)) INV (E): 0.38 (15" RCP (EXIST. W/ NEW PRB)) BOTT EL: -2.00

7 LF OF 15" RCP SD @ 0.00% SLOPE

STMH-S311 MH 8'X8' N: 640236.68 E: 931555.19 RIM EL: 5.16 INV (W): -5.54 (66" RCP) INV (S): -6.00 (66" RCP) INV (N): -1.00 (24" RCP) BOTT EL: -7.50

14 LF OF 66" RCP SD @ 0.00% SLOPE

REMOVE EX. & REPLACE W/ STIN-S49 MH 8'X8' N: 640213.04 E: 931204.19 GRATE EL: 4.87 INV (E): -8.00 (66" RCP) INV (W): -8.00 (66" RCP) INV (N): -0.12 (15" RCP) BOTT EL: -10.00

193 LF OF 66" RCP SD @ 0.00% SLOPE

REUSE FRAME AND GRATE FROM EXISTING CATCH BASIN ON TOP OF PROPOSED TYPE "J" STRUCTURE

161 LF OF 66" RCP SD @ 0.00% SLOPE

STIN-S409 TYPE "C" DITCH BOTTOM N: 640201.26 E: 931362.82 GRATE EL: 4.52 INV (N): 0.40 (15" RCP) BOTT EL: -1.60

REMOVE EX. & REPLACE W/ STIN-S52 TYPE "J" BOTTOM W/ EC 2'x3' GRATE N: 640234.25 E: 931525.99 GRATE EL: 4.73 INV (E): -5.54 (66" RCP) INV (W): -8.00 (66" RCP) BOTT EL: -10.00

AIR RELEASE MH, TOP OF VALVE ELEVATION =4.03'

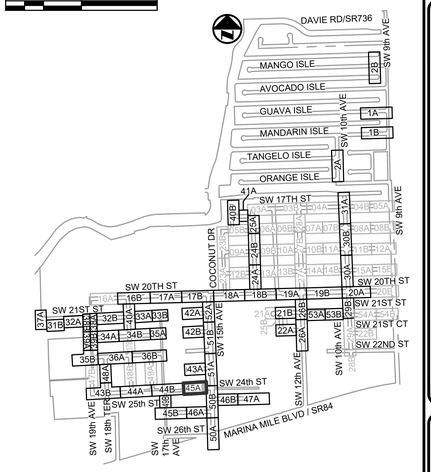
STIN-S418 8'X8' CONFLICT STRUCTURE N: 640223.09 E: 931555.50 GRATE EL: 5.17 INV (S): -6.00 (66" RCP) INV (N): -6.00 (66" RCP) INV (W): -4.05 (STEEL ENCASEMENT) INV (E): -4.07 (STEEL ENCASEMENT) BOTT EL: -8.00

174 LF OF 66" RCP SD @ 0.00% SLOPE

PLAN

SCALE: 1"=20'

0 20' 40'



KEY MAP

N.T.S.

EXIST. STRUCTURE TO BE REMOVED AND REPLACED (CONNECT EXIST. INVERTS TO NEW STRUCTURE) STIN-S49 MH 8'X8' STA: 28+50.42 RIM EL: 4.87 INV (E): -8.00 (66" RCP) INV (W): -8.00 (66" RCP) INV (N): -0.12 (15" RCP) BOTT EL: -10.00

BOT. EXIST. 2" HDPE WM (TO BE RELOCATED AS NECESSARY TO PROVIDE 3' MIN SEP.)=1.93

BOT. EXIST. 6" P.V.C. SAN. LATERAL=-1.02

EXISTING GRADE

EXIST. 2" H.D.P.E. WATR.

BOT. EXIST. 6" P.V.C. SAN. LATERAL=-1.02

6" MIN. (TYP.)

EXIST. STRUCTURE TO BE REMOVED AND REPLACED (CONNECT EXIST. INVERTS TO NEW STRUCTURE) STIN-S51 MH 8'X8' STA: 30+11.73 RIM EL: 4.91 INV (E): -8.00 (66" RCP) INV (W): -8.00 (66" RCP) INV (S): 0.00 (15" RCP) INV (N): 0.00 (15" RCP) BOTT EL: -10.00

BOT. EXIST. 6" P.V.C. SAN. LATERAL=-1.02

BOT. EXIST. 6" P.V.C. SAN. LATERAL=-1.02

EXIST. STRUCTURE TO BE REMOVED AND REPLACED (CONNECT EXIST. INVERTS TO NEW STRUCTURE) STIN-S52 TYPE "J" BOTTOM W/ EC 2'x3' GRATE STA: 31+72.99 RIM EL: 4.73 INV (E): -5.54 (66" RCP) INV (W): -8.00 (66" RCP) BOTT EL: -10.00

BOT. EXIST. 6" C.I.P. WATR.=1.58

1.08' SEP.

STMH-S311 MH 8'X8' STA: 32+02.30 RIM EL: 5.16 INV (W): -5.54 (66" RCP) INV (S): -6.00 (66" RCP) INV (N): -1.00 (24" RCP) BOTT EL: -7.50

29 LF OF 66" RCP SD @ 0.00% SLOPE

193 LF OF 66" RCP SD @ 0.00% SLOPE

161 LF OF 66" RCP SD @ 0.00% SLOPE

161 LF OF 66" RCP SD @ 0.00% SLOPE

PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

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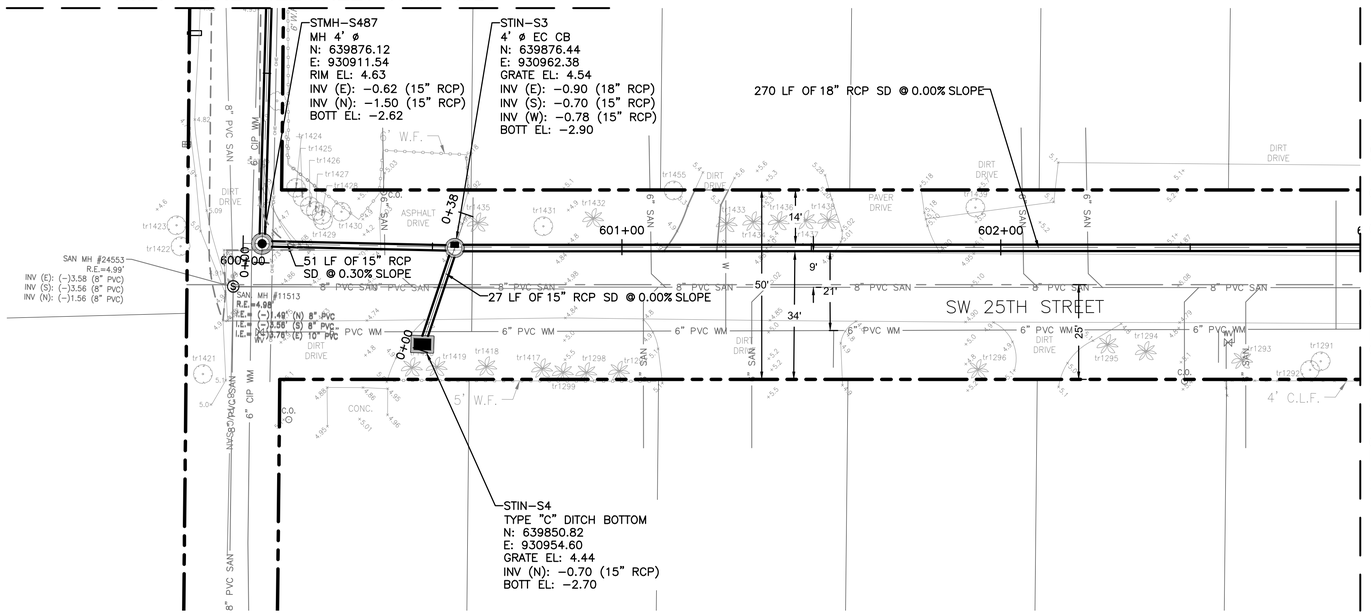
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-45A

TOTAL: 255

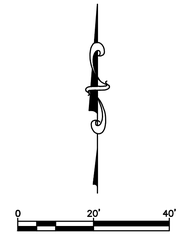
CAD FILE: 11868-CU-ST-C

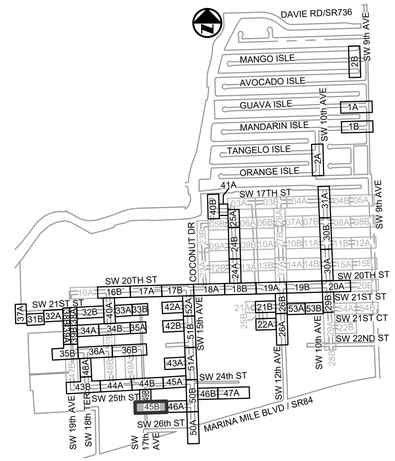
DRAWING FILE NO. 4-142-42



PLAN

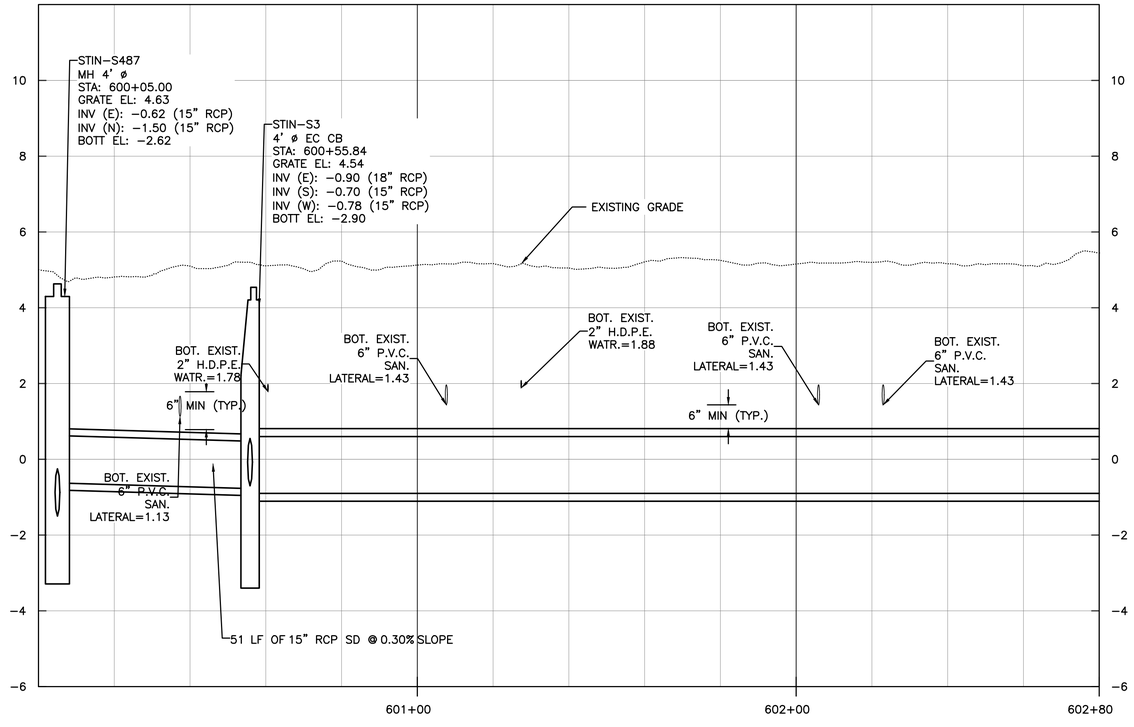
SCALE: 1"=20'





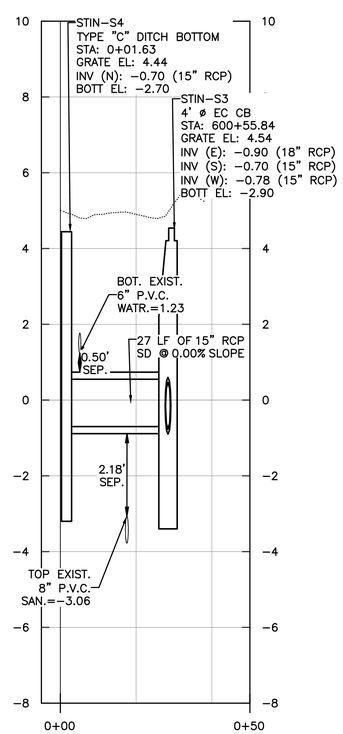
KEY MAP

N.T.S.



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL



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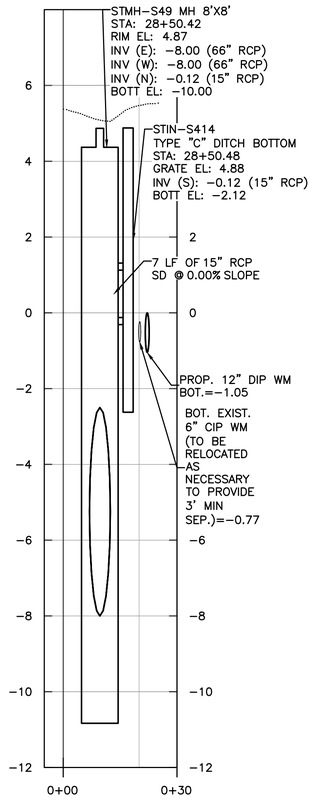
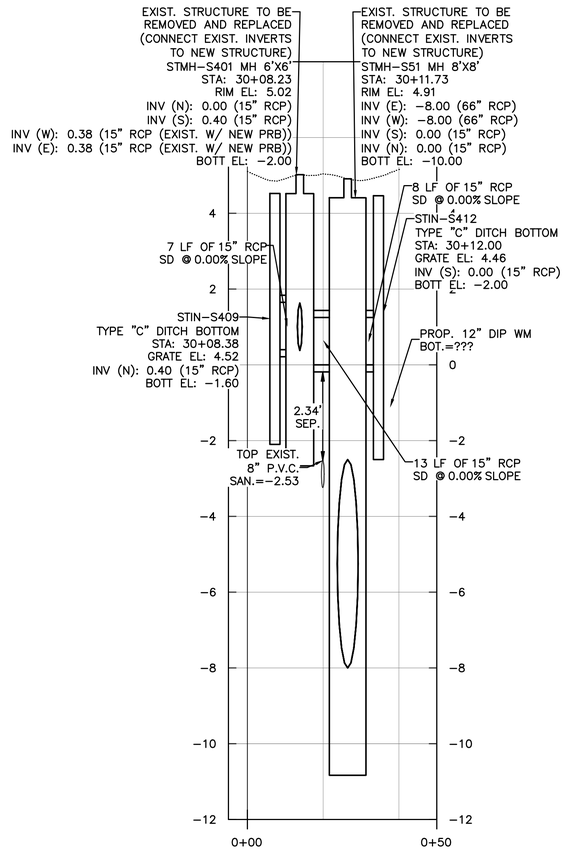


PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

S.W. 24TH STREET
(SEE SHEET CU-ST-45A)
STA:28+50



PROFILE

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1"=2' VERTICAL

S.W. 24TH STREET
(SEE SHEET CU-ST-45A)
STA:30+10

Hazen

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FAX: (954) 739-6409 TEL: (954) 739-6400

FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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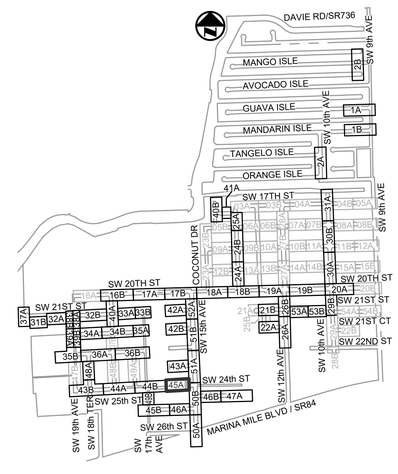

KEY MAP

N.T.S.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).

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8/26/2021

CONSTRUCTION SET

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ENGINEER: PATRICK J. GIBNEY
REG. No.: 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	DESCRIPTION
		(CHK'D)	

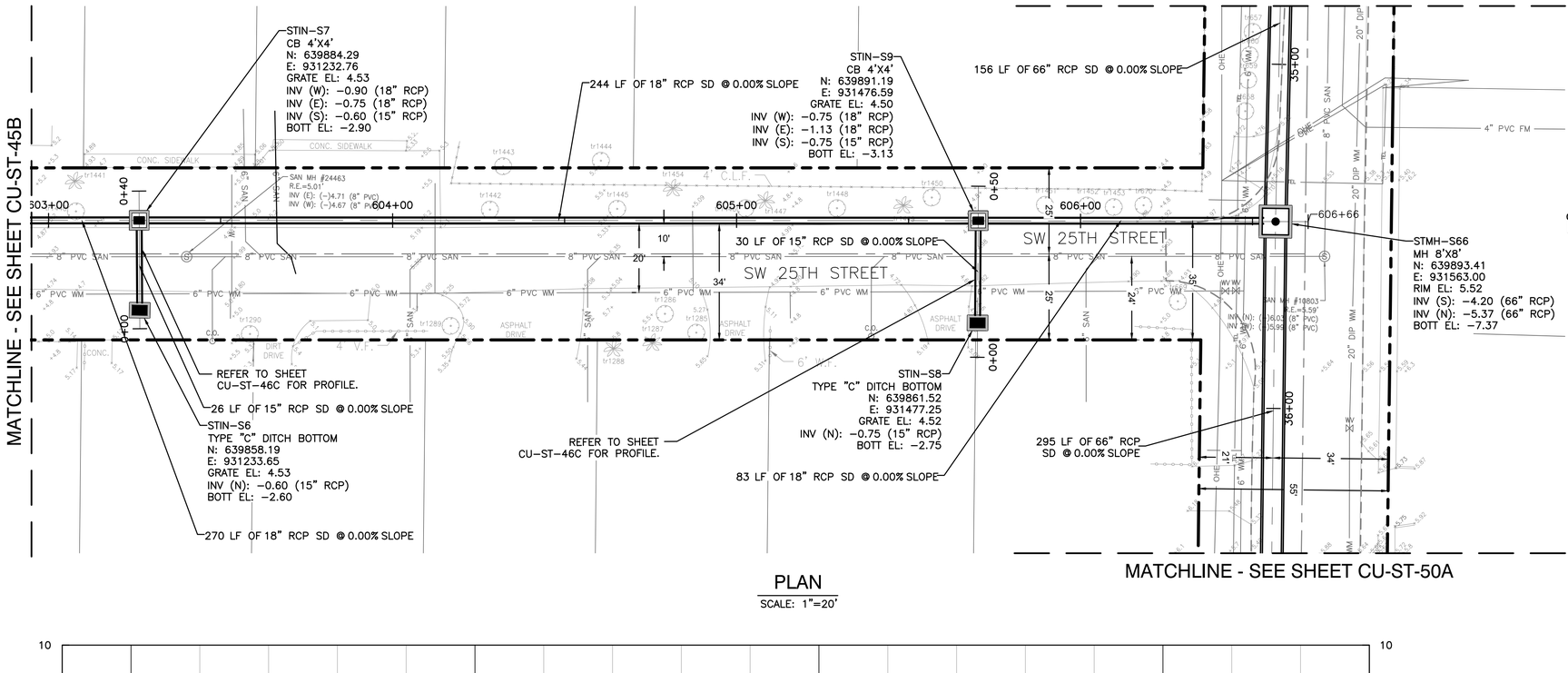
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-45C

TOTAL: 255

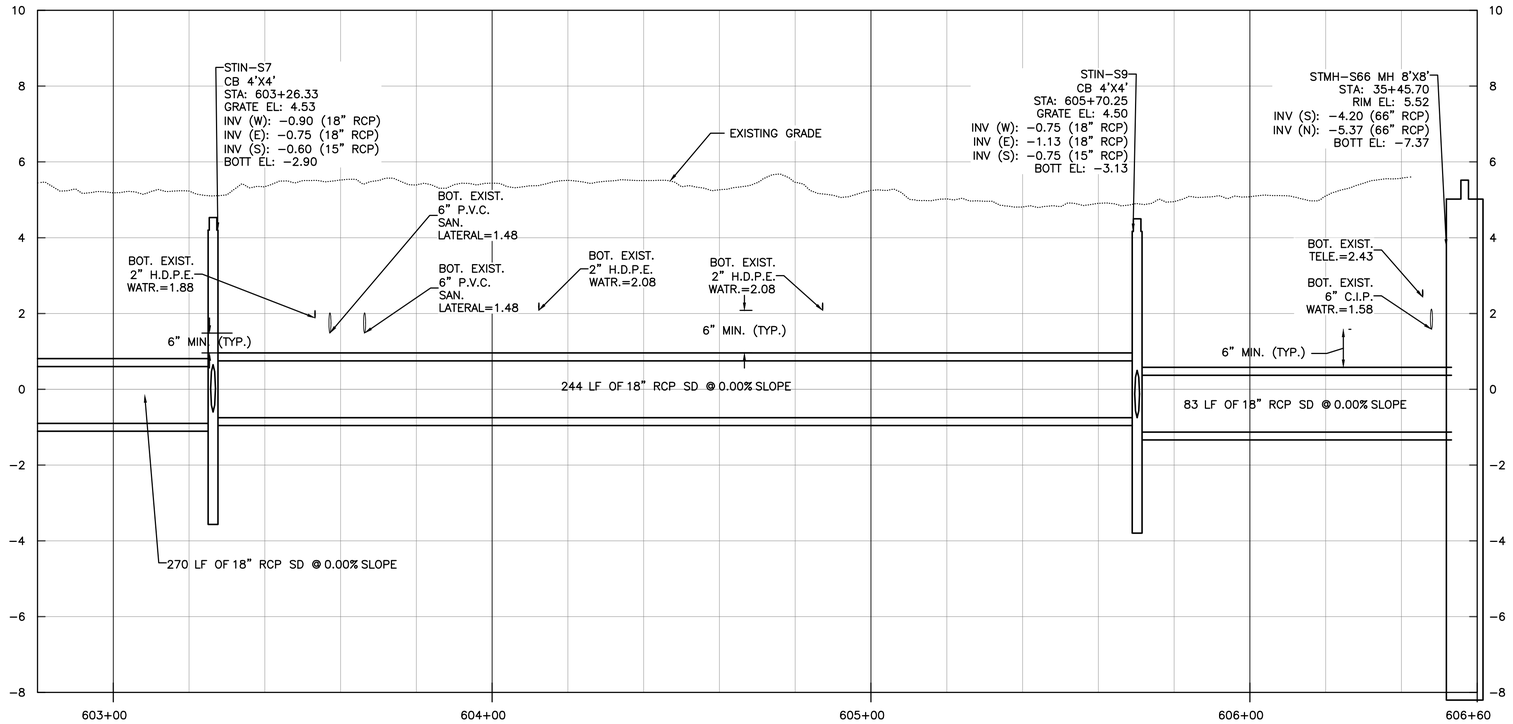
CAD FILE: 11868-CU-ST-C

DRAWING FILE NO. 4-142-42



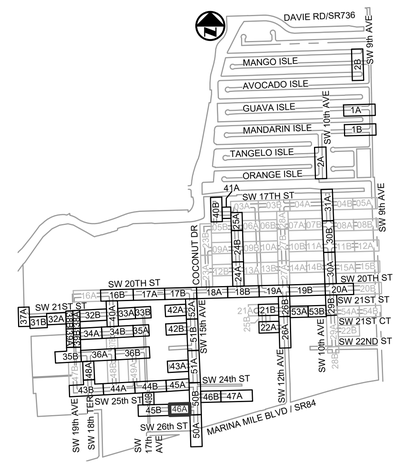
PLAN

SCALE: 1"=20'



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL



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8/26/2021

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Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021
Certificate of Authorization No: 2771

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ENGINEER: PATRICK J. GIBNEY
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SCALE: 1"=20'
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CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	DESCRIPTION
		(CHK'D)	

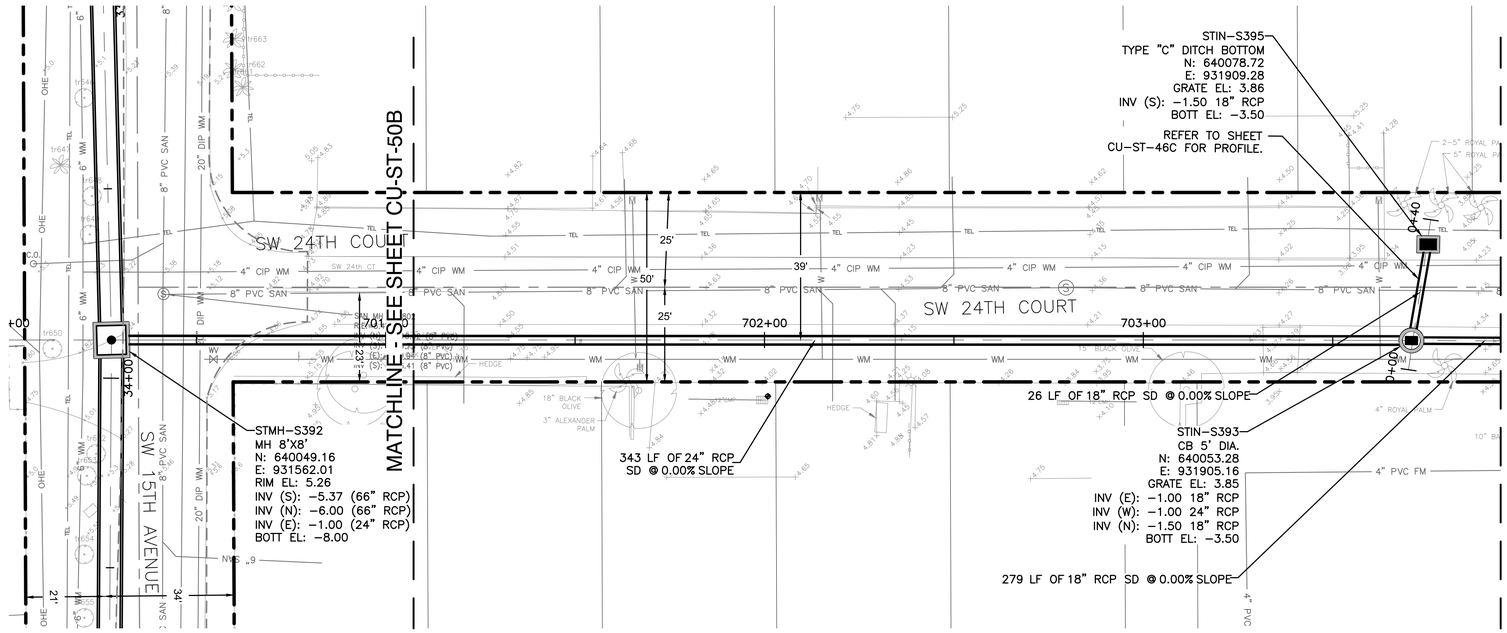
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-46A

TOTAL: 255

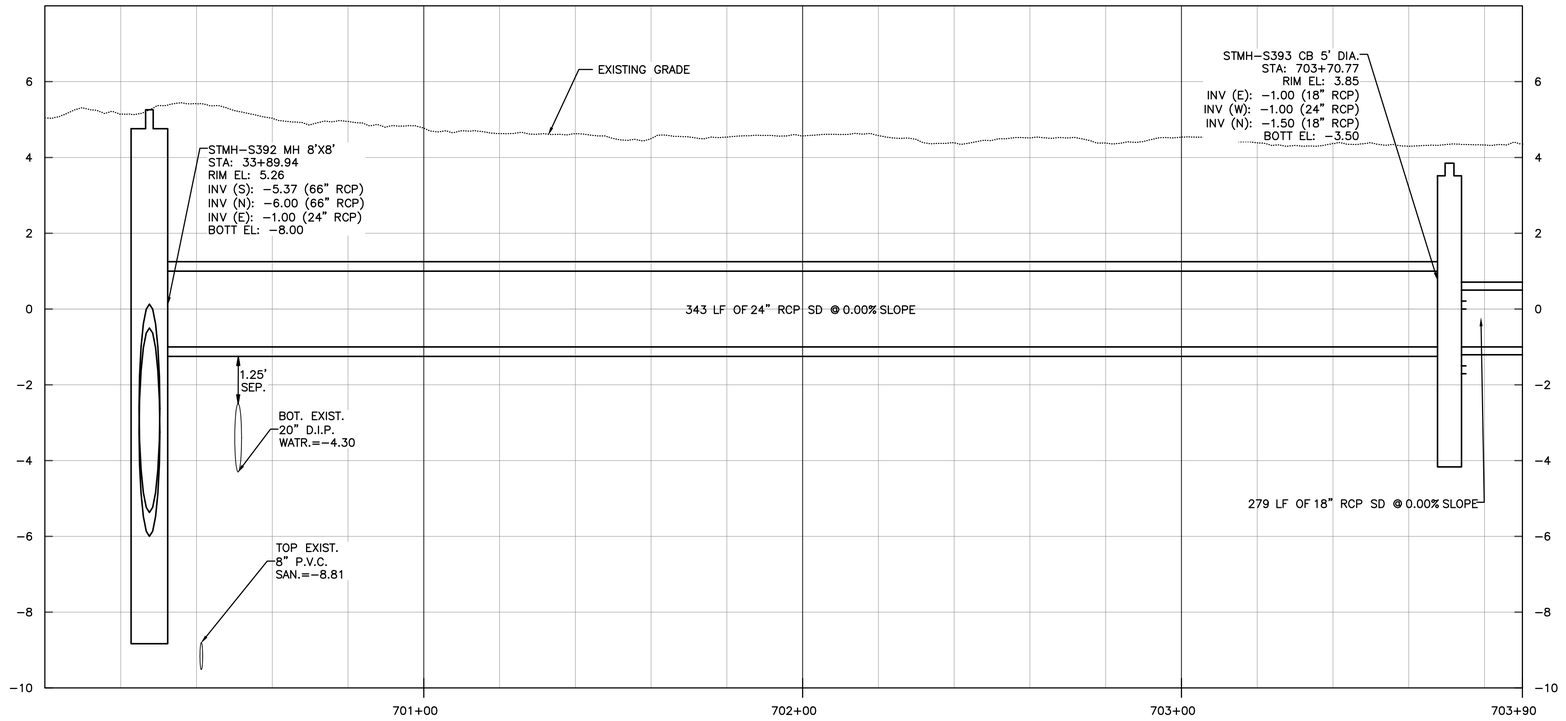
CAD FILE: 11868-CU-ST-C

DRAWING FILE NO. 4-142-42



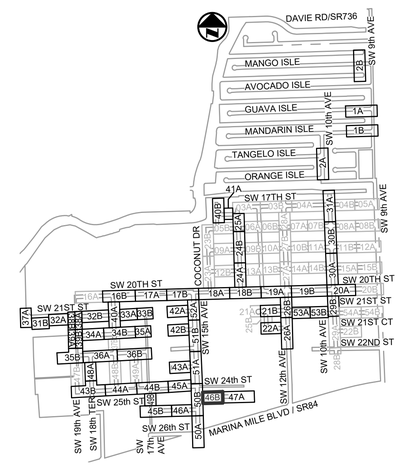
PLAN

SCALE: 1"=20'



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL



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ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

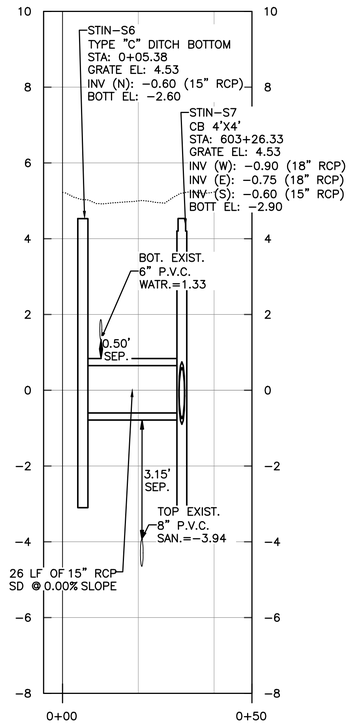
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-46B

TOTAL: 255

CAD FILE: 11868-CU-ST-C

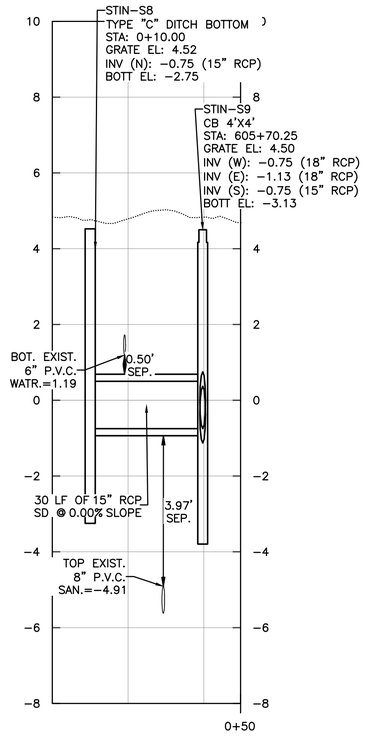
DRAWING FILE NO. 4-142-42



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

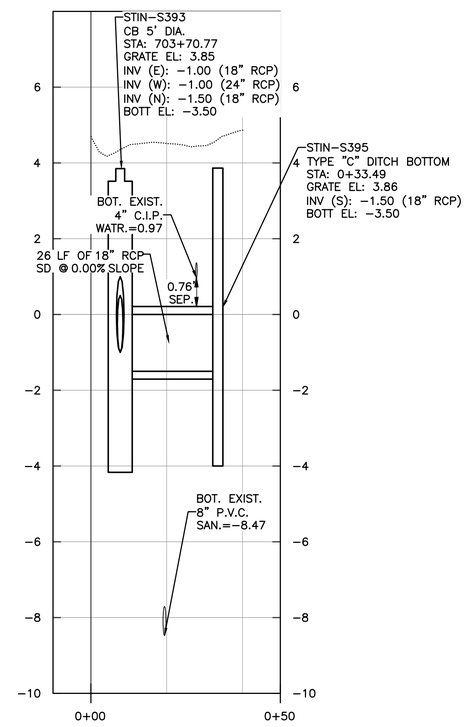
S.W. 25TH STREET
(SEE SHEET CU-ST-46A)
STA:603+00



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

S.W. 25TH STREET
(SEE SHEET CU-ST-46A)
STA:603+50



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

S.W. 24TH COURT
(SEE SHEET CU-ST-46B)
STA:703+60

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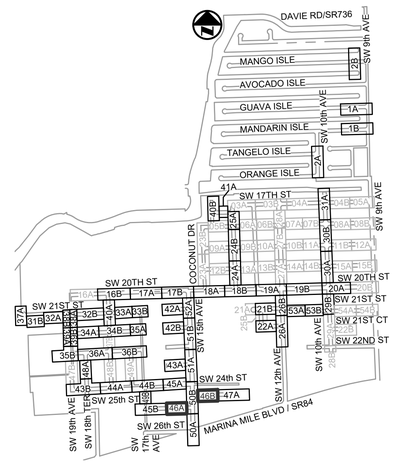

KEY MAP

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DRAWN BY: XXX
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DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

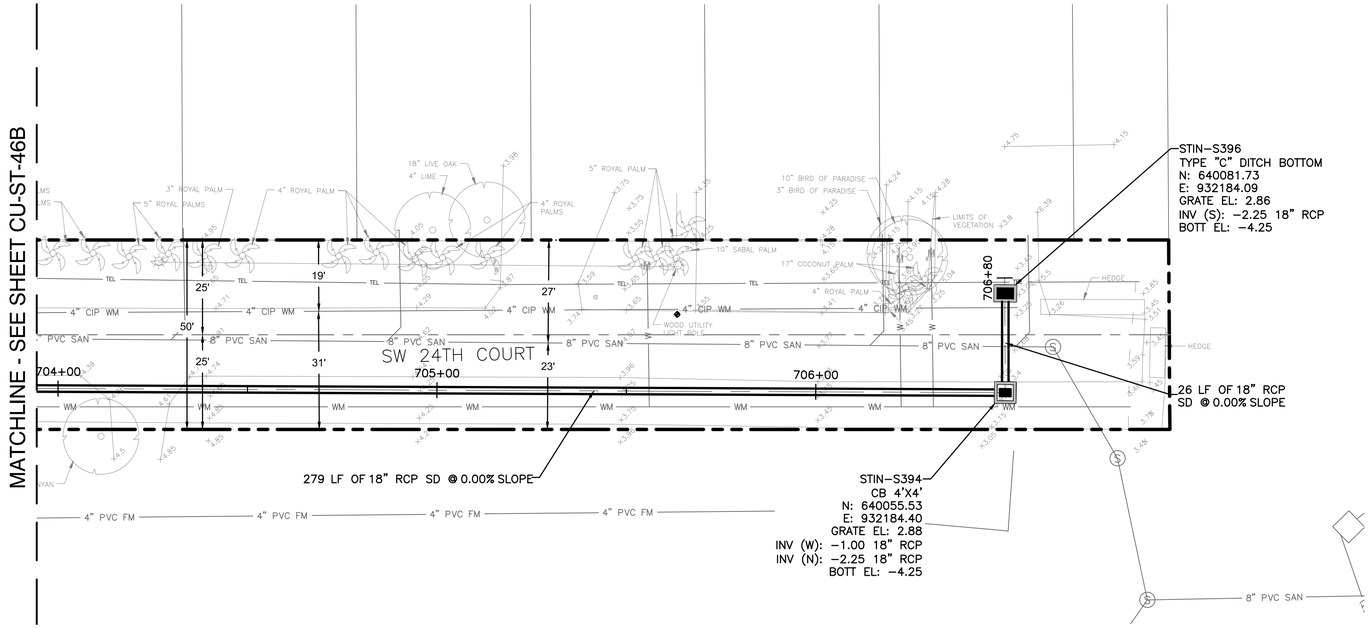
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-46C

TOTAL: 255

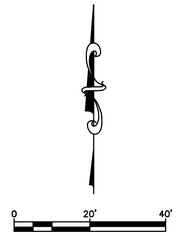
CAD FILE: 11868-CU-ST-C

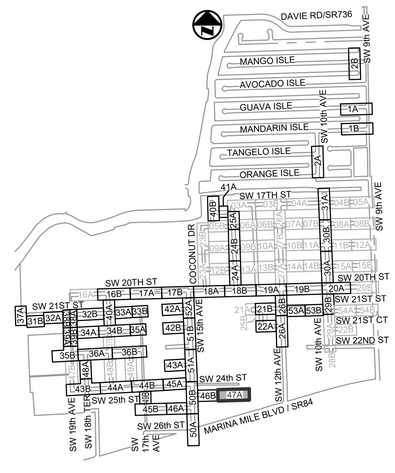
DRAWING FILE NO. 4-142-42



PLAN

SCALE: 1"=20'





KEY MAP

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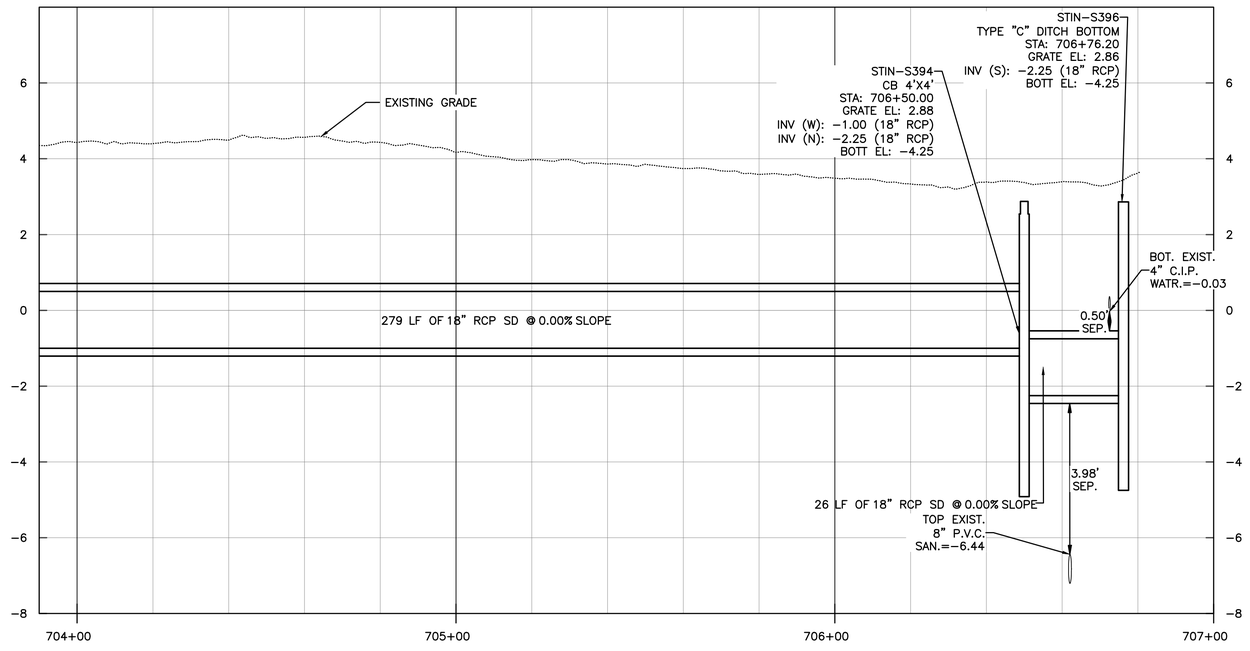

PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

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8/26/2021

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HAZEN AND SAWYER
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HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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ENGINEER: PATRICK J. GIBNEY
REG. No.: 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	DESCRIPTION
		(CHK'D)	

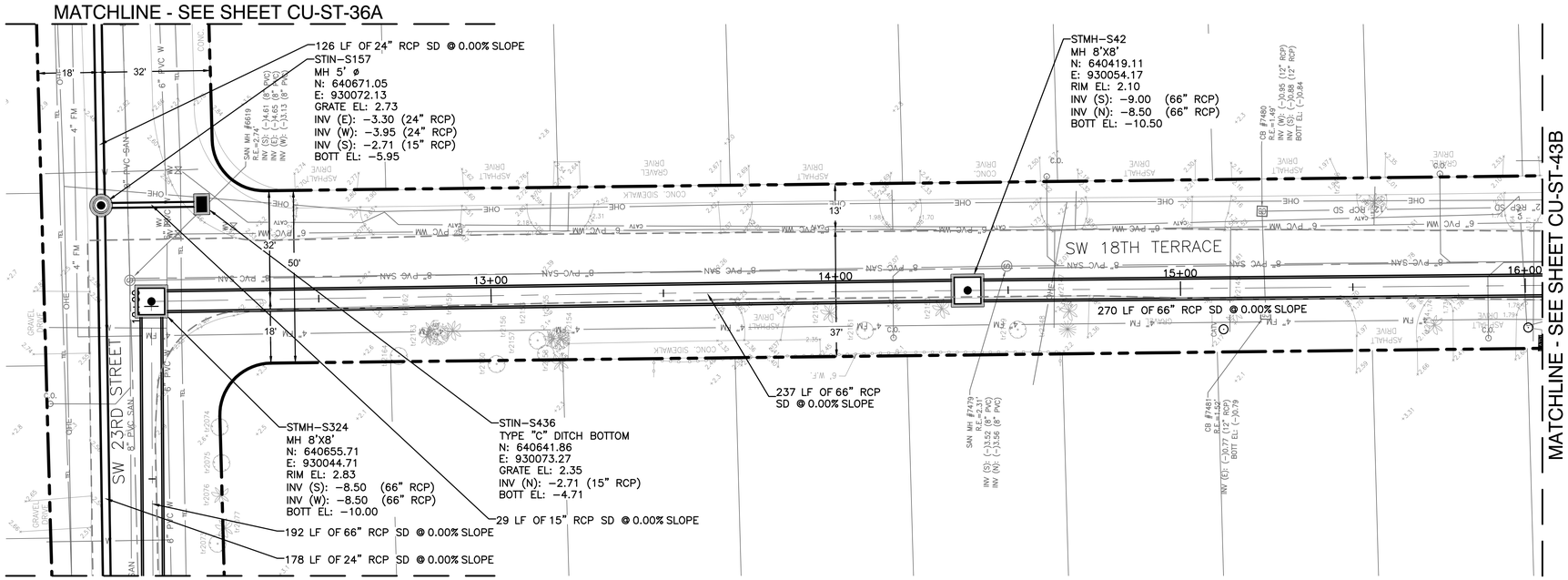
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-47A

TOTAL: 255

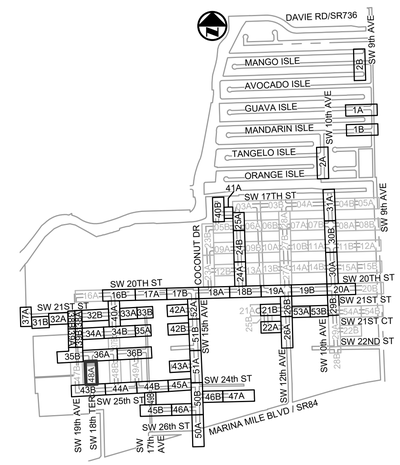
CAD FILE: 11868-CU-ST-C

DRAWING FILE NO. 4-142-42



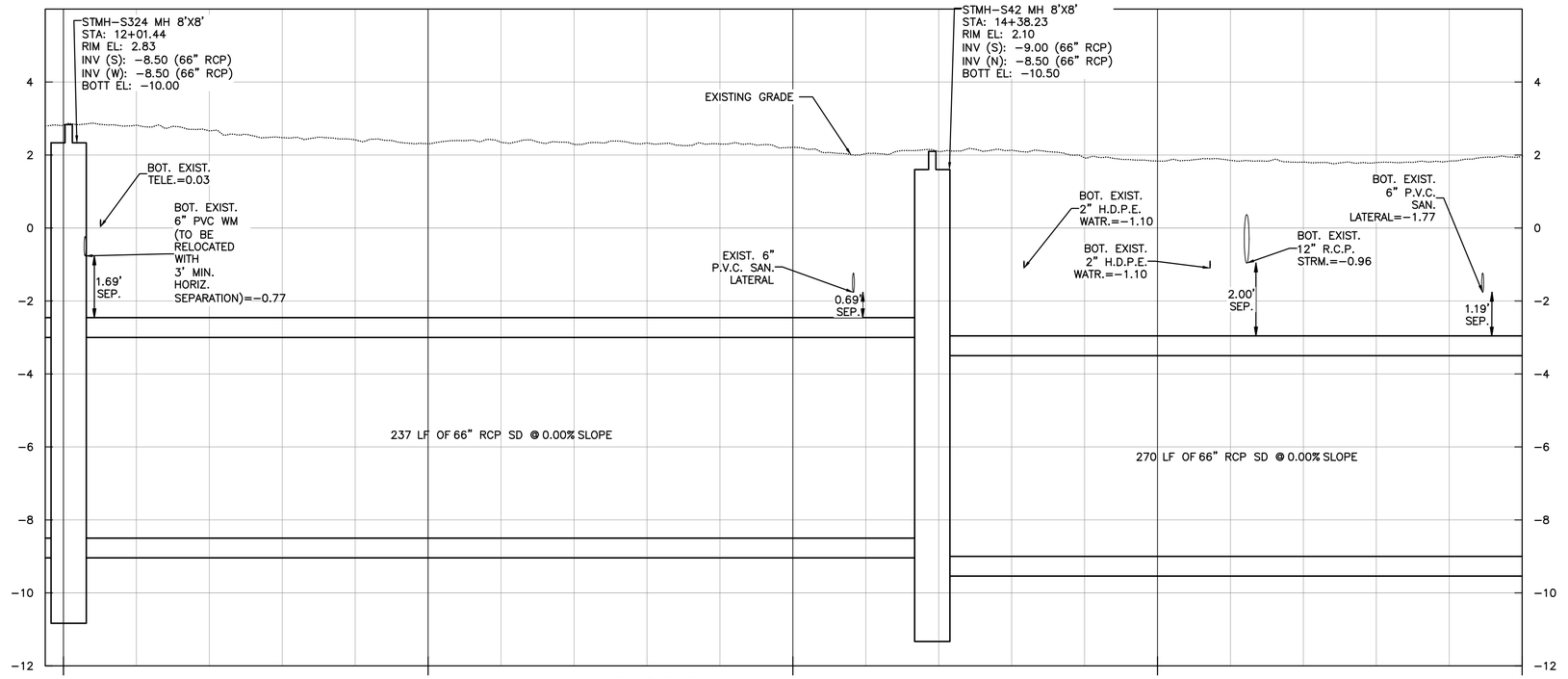
PLAN

SCALE: 1"=20'



KEY MAP

N.T.S.



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

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CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	DESCRIPTION
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PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-48A

TOTAL: 255

CAD FILE: 11868-CU-ST-C

DRAWING FILE NO. 4-142-42

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TEL: 954-987-0066
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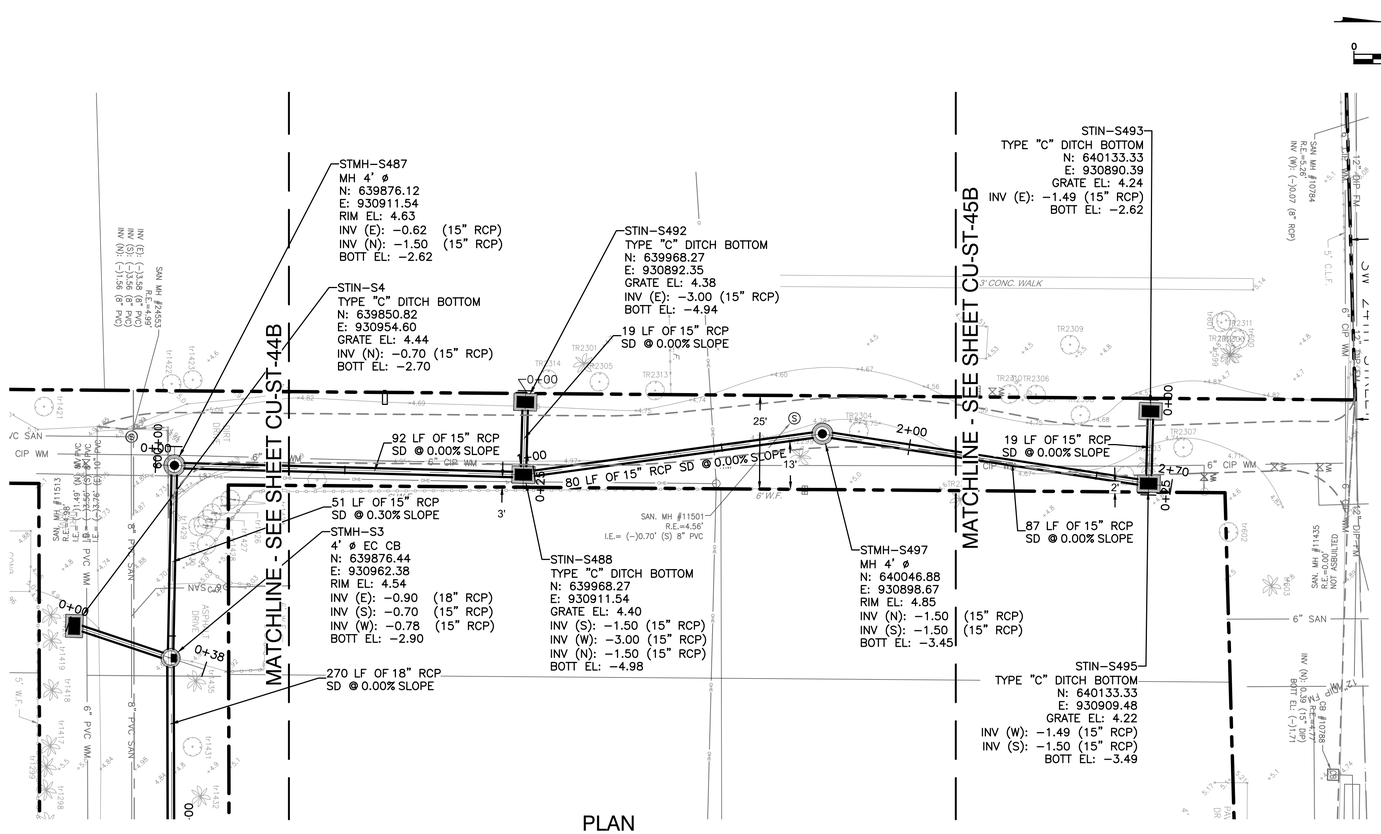
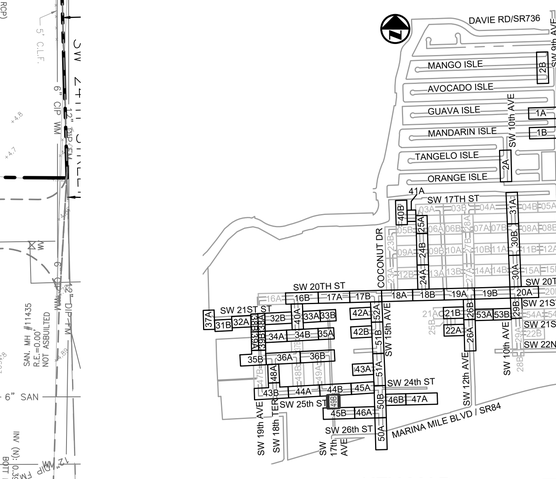


PLAN
SCALE: 1"=20'



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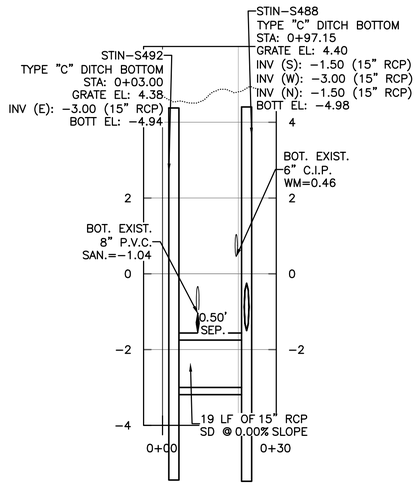
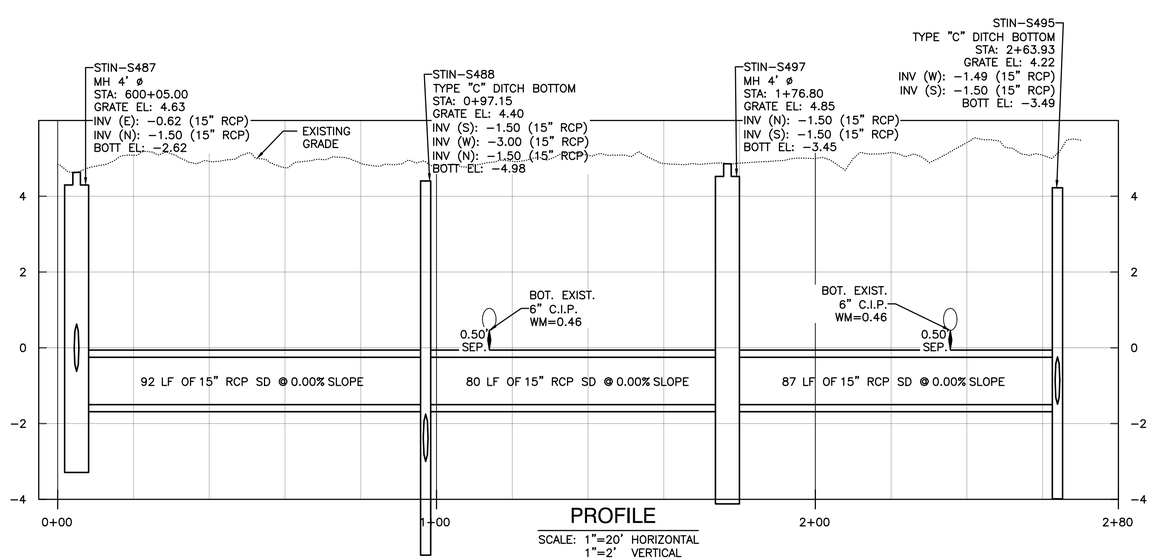
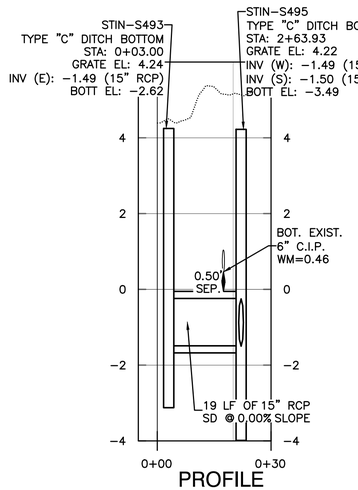


PROFILE
SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL



PROFILE
SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL



PROFILE
SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

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8/26/2021

CONSTRUCTION SET

REVISIONS

NO.	DATE	BY (CHK'D)	DESCRIPTION

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-49B

TOTAL: 255

CAD FILE:
11868-CU-ST-C

DRAWING FILE NO.
4-142-42

MATCHLINE - SEE SHEET CU-ST-50B

SW 15TH AVENUE

295 LF OF 66" RCP SD @ 0.00% SLOPE

228 LF OF (INSTALLED BY OPEN TRENCH) SD @ 0.01% SLOPE

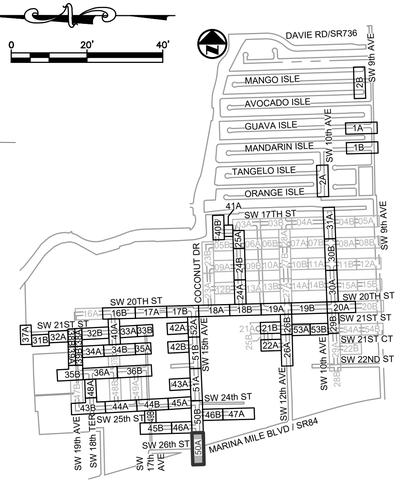
MARINA MILE BOULEVARD SR84 / 8600800

REFER TO HAZEN AND SAWYER PLANS FOR EDGEWOOD NEIGHBORHOOD STORM WATER PROJECT FOR DETAILS

STMH–S315
MH 8' ø
N: 639598.26
E: 931568.15
RIM EL: 5.15
INV (S): –6.06 (66" RCP (PLUG–COORD CONNECTION WITH EDGEWOOD PROJECT))
INV (N): –4.20 (66" RCP)
BOTT EL: –8.06

STMH–S77
MH 8' ø
PROPOSED PIPING SOUTH OF THIS STRUCTURE TO BE UNDER SEPARATE CONTRACT FOR THE EDGEWOOD NEIGHBORHOOD
N: 639366.09
E: 931587.66
RIM EL: 5.85
INV (S): –3.92 ((PLUG–COORD CONNECTION WITH EDGEWOOD PROJECT))
INV (N): –6.71 ((INSTALLED BY OPEN TRENCH))
BOTT EL: –8.21

PLAN
SCALE: 1"=20'



KEY MAP
N.T.S.

REFER TO HAZEN AND SAWYER PLANS FOR EDGEWOOD NEIGHBORHOOD STORM WATER PROJECT FOR DETAILS

STMH–S315 MH 8' ø
STA: 38+40.89
RIM EL: 5.15
INV (S): –6.06 (66" RCP (PLUG–COORD CONNECTION WITH EDGEWOOD PROJECT))
INV (N): –4.20 (66" RCP)
BOTT EL: –8.06

MARINA MILE BOULEVARD / SR84 LIMITS OF ROW

EXISTING GRADE

PROPOSED GRADE FOR EDGEWOOD PROJECT

EXIST. W.M. TO BE RELOCATED AS NEEDED ABOVE PROPOSED STORM WITH MIN. 6" SEPARATION

BOT. EXIST. 6" C.I.P. WATR.=2.13

BOT. EXIST. 2" H.D.P.E. WATR.=2.53

BOT. EXIST. 8" D.I.P. WATR.=0.98

BOT. EXIST. 18" R.C.P. STRM.=0.39

BOT. EXIST. 6" C.I.P. WATR.=1.48

12" MIN.

BOT. EXIST. 6" D.I.P. WATR.=2.53

BOT. EXIST. 15" R.C.P. STRM.=0.41

295 LF OF 66" RCP SD @ 0.00% SLOPE

228 LF OF (INSTALLED BY OPEN TRENCH) SD @ 0.01% SLOPE

STMH–S77 MH 8' ø
STA: 40+73.88
RIM EL: 5.85
(PROPOSED PIPING SOUTH OF THIS STRUCTURE TO BE INSTALLED UNDER SEPARATE CONTRACT FOR EDGEWOOD NEIGHBORHOOD STORMWATER PROJECT)
INV (S): –3.92 ((PLUG–COORD CONNECTION WITH EDGEWOOD PROJECT))
INV (N): –6.71 ((INSTALLED BY OPEN TRENCH))
BOTT EL: –8.21

26 LF OF (PLUG–COORD CONNECTION WITH EDGEWOOD PROJECT) SD @ 0.00% SLOPE

PROFILE
SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

NOTES:

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2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ–DT–22).
3. TRENCH CUTS AND RESTORATION ACROSS EXISTING PAVEMENT SHALL BE PER FDOT DESIGN STANDARDS INDEX 307.

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CONSTRUCTION SET

Patrick J. Gibney, State of Florida, Professional Engineer, License No. 49428. This item has been electronically signed and sealed by Patrick J. Gibney on the date indicated here using an SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

8/26/2021

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

ENGINEER: PATRICK J. GIBNEY
REG. No.: 49428
DATE: 01/22/2021

TEL: 954-739-6400
FAX: 954-739-6409

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

CRAVEN • THOMPSON AND ASSOCIATES, INC.
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FAX: (954) 739-6409 TEL: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
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DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-50A

TOTAL: 255

CAD FILE: 11868-CU-ST-C

DRAWING FILE NO. 4-142-42

PLOT DATE: 9/21/2021 11:30 AM BY: MRODRIGUEZ

MATCHLINE - SEE SHEET CU-ST-46B

MATCHLINE - SEE SHEET CU-ST-51A

MATCHLINE - SEE SHEET CU-ST-50A

39 LF OF 24" RCP SD @ 0.00% SLOPE

STMH-S311
MH 8'X8'
N: 640236.68
E: 931555.19
RIM EL: 5.16
INV (W): -5.54 (66" RCP)
INV (S): -6.00 (66" RCP)
INV (N): -1.00 (24" RCP)
BOTT EL: -7.50

14 LF OF 66" RCP SD @ 0.00% SLOPE

343 LF OF 24" RCP SD @ 0.00% SLOPE

STMH-S66
MH 8'X8'
N: 639893.41
E: 931563.00
RIM EL: 5.52
INV (S): -4.20 (66" RCP)
INV (N): -5.37 (66" RCP)
BOTT EL: -7.37

SW 24TH COURT

SW 15TH AVENUE

SW 24TH ST

SW 25TH STREET

74 LF OF 66" RCP SD @ 0.00% SLOPE

29 LF OF 66" RCP SD @ 0.00% SLOPE

REMOVE EX. & REPLACE W/
STIN-S52
TYPE "J" BOTTOM
W/ EC 2'x3' GRATE
N: 640234.25
E: 931525.99
GRATE EL: 4.73
INV (E): -5.54 66" RCP
INV (W): -8.00 66" RCP
BOTT EL: -10.00

161 LF OF 66" RCP SD @ 0.00% SLOPE

STMH-S418
8'X8' CONFLICT STRUCTURE
N: 640223.09
E: 931555.50
RIM EL: 5.17
INV (S): -6.00 (66" RCP)
INV (N): -6.00 (66" RCP)
INV (W): -4.05 (STEEL ENCASEMENT)
INV (E): -4.07 (STEEL ENCASEMENT)
BOTT EL: -8.00

STMH-S392
MH 8'X8'
N: 640049.16
E: 931562.01
RIM EL: 5.26
INV (S): -5.37 (66" RCP)
INV (N): -6.00 (66" RCP)
INV (E): -1.00 (24" RCP)
BOTT EL: -8.00

156 LF OF 66" RCP
SD @ 0.00% SLOPE

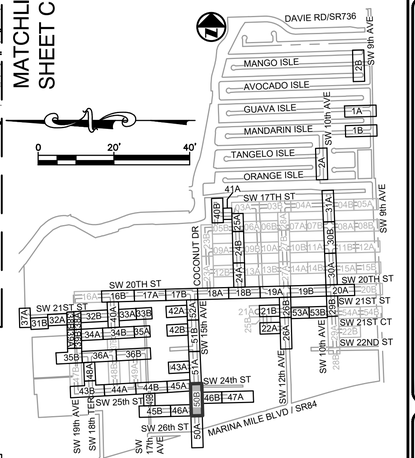
83 LF OF 18" RCP
SD @ 0.00% SLOPE

295 LF OF 66" RCP
SD @ 0.00% SLOPE

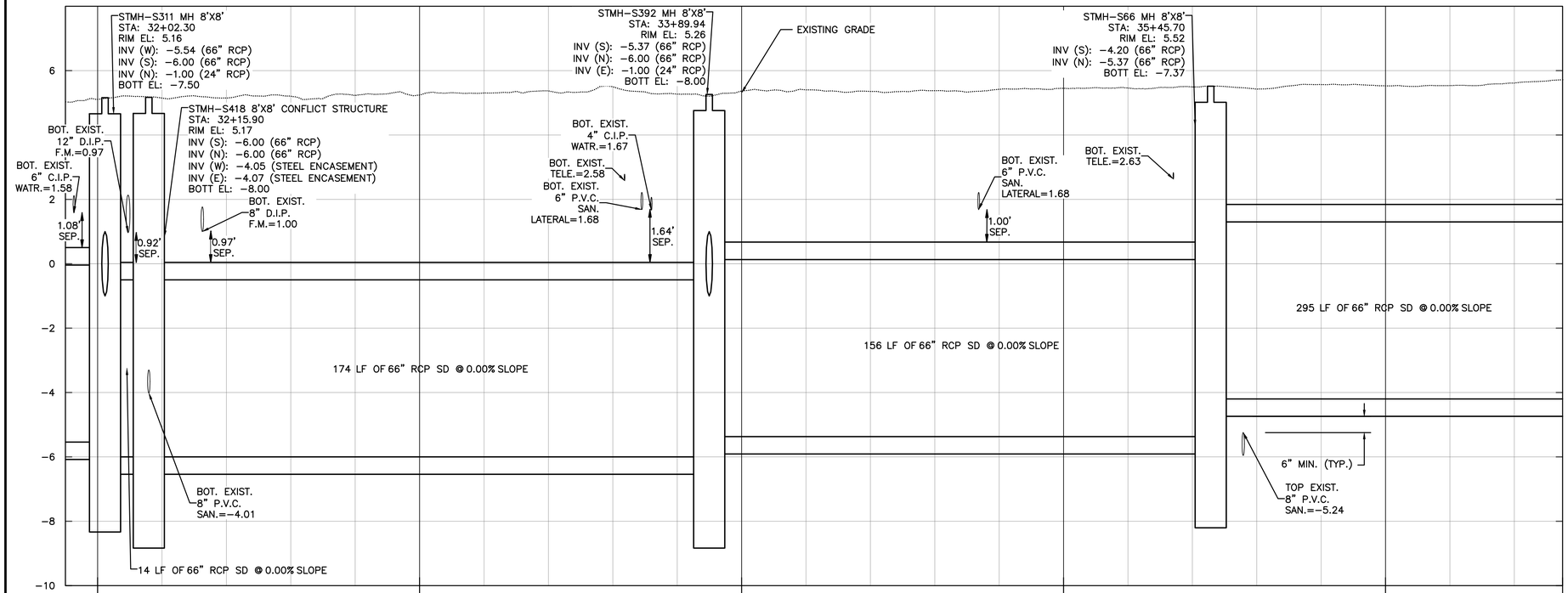
MATCHLINE - SEE SHEET CU-ST-45A

MATCHLINE - SEE SHEET CU-ST-46A

PLAN
SCALE: 1"=20'



KEY MAP
N.T.S.



PROFILE
SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

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8/26/2021

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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ENGINEER: PATRICK J. GIBNEY
REG. NO.: 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-50B

TOTAL: 255

CAD FILE: 11868-CU-ST-C

DRAWING FILE NO. 4-142-42

MATCHLINE - SEE SHEET CU-ST-43A

MATCHLINE - SEE SHEET CU-ST-50B

MATCHLINE - SEE SHEET CU-ST-51B

SW 24TH ST

SW 23RD CT

SW 15TH AVENUE

39 LF OF 24" RCP SD @ 0.00% SLOPE

REMOVE EX. & REPLACE W/ STIN-S403 CB 5' DIA. N: 640275.11 E: 931558.43 GRATE EL: 4.71 INV (S): -1.00 24" RCP INV (E): -3.84 24" RCP BOTT EL: -5.84

10 LF OF 24" RCP SD @ 0.00% SLOPE

19 LF OF 15" RCP SD @ 0.00% SLOPE

REFER TO SHEET CU-ST-51C FOR PROFILE.

INV (E): -2.25 15" RCP BOTT EL: -4.25

10 LF OF 15" RCP SD @ 0.00% SLOPE

REMOVE EX. & REPLACE W/ STIN-S445 TYPE "C" DITCH BOTTOM N: 640480.18 E: 931523.91 GRATE EL: 3.08 INV (N): -2.00 15" RCP BOTT EL: -4.00

REMOVE EX. & REPLACE W/ STIN-S404 CB DITCH 5'X7' N: 640463.64 E: 931545.55 GRATE EL: 3.20

REMOVE EX. & REPLACE W/ STMH-S135 MH 4'X4' N: 640490.16 E: 931523.29 RIM EL: 3.79 INV (N): -0.75 (18" RCP) INV (W): -0.62 (15" RCP (EXIST.)) INV (S): -2.00 (15" RCP) BOTT EL: -4.00

STIN-S448 TYPE "D" DITCH N: 640507.79 E: 931469.62 GRATE EL: 2.79 INV (S): 0.48 (12" RCP) BOTT EL: -1.52

13 LF OF 18" RCP SD @ 0.00% SLOPE

206 LF OF 24" RCP SD @ 0.00% SLOPE

REMOVE EX. & REPLACE W/ STMH-S136 MH 4'X4' N: 640503.04 E: 931522.48 RIM EL: 3.72 INV (S): -0.75 (18" RCP) INV (E): -2.65 (18" RCP) INV (W): 0.48 (14" RCP (EXIST.)) BOTT EL: -4.65

41 LF OF 18" RCP SD @ 0.00% SLOPE

REFER TO SHEET CU-ST-51C FOR PROFILE.

STMH-S122 MH 6'X6' N: 640507.70 E: 931563.70 RIM EL: 4.28 INV (S): -2.00 (24" RCP) INV (N): -2.00 (24" RCP) INV (W): -2.65 (18" RCP) INV (E): 0.00 (15" RCP) BOTT EL: -4.65

REPLACE EXISTING FENCING THAT IS DISTURBED DURING CONSTRUCTION

STMH-S311 MH 8'X8' N: 640236.68 E: 931555.19 RIM EL: 5.16 INV (W): -5.54 (66") 66" RCP INV (S): -6.00 (66") 66" RCP INV (N): -1.00 (24") 24" RCP BOTT EL: -7.50

STMH-S312 MH 6' ø N: 640278.54 E: 931568.13 RIM EL: 5.04 INV (N): -1.77 (24" RCP) INV (E): 0.36 (15" RCP (EXIST.)) INV (W): -3.84 (24" RCP) BOTT EL: -5.84

185 LF OF 24" RCP SD @ 0.00% SLOPE

REMOVE EX. & REPLACE W/ STMH-S374 MH 5' ø N: 640463.51 E: 931564.55 RIM EL: 4.40 INV (S): -1.77 (24" RCP) INV (N): -2.00 (24" RCP) INV (W): -2.25 (15" RCP) BOTT EL: -4.25

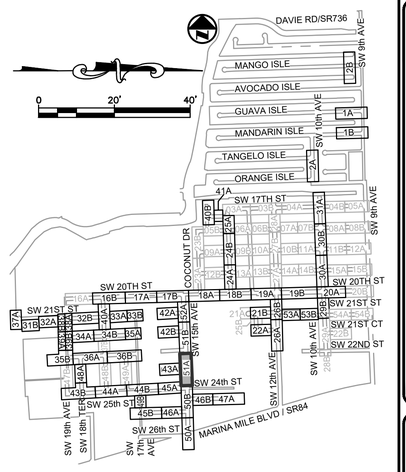
44 LF OF 24" RCP SD @ 0.00% SLOPE

14 LF OF 15" RCP SD @ 0.00% SLOPE

REMOVE EX. & REPLACE W/ STIN-S433 10'X10' EC CONFLICT STRUCTURE WITH 2'X3' CB INLET GRATE N: 640509.07 E: 931578.10 GRATE EL: 3.91 INV (S): 0.18 15" DIP (EXIST.) INV (N): 0.39 15" DIP (EXIST.) INV (S): 0.58 STEEL ENCASEMENT INV (N): 0.58 STEEL ENCASEMENT INV (W): 0.00 15" RCP BOTT EL: -2.00

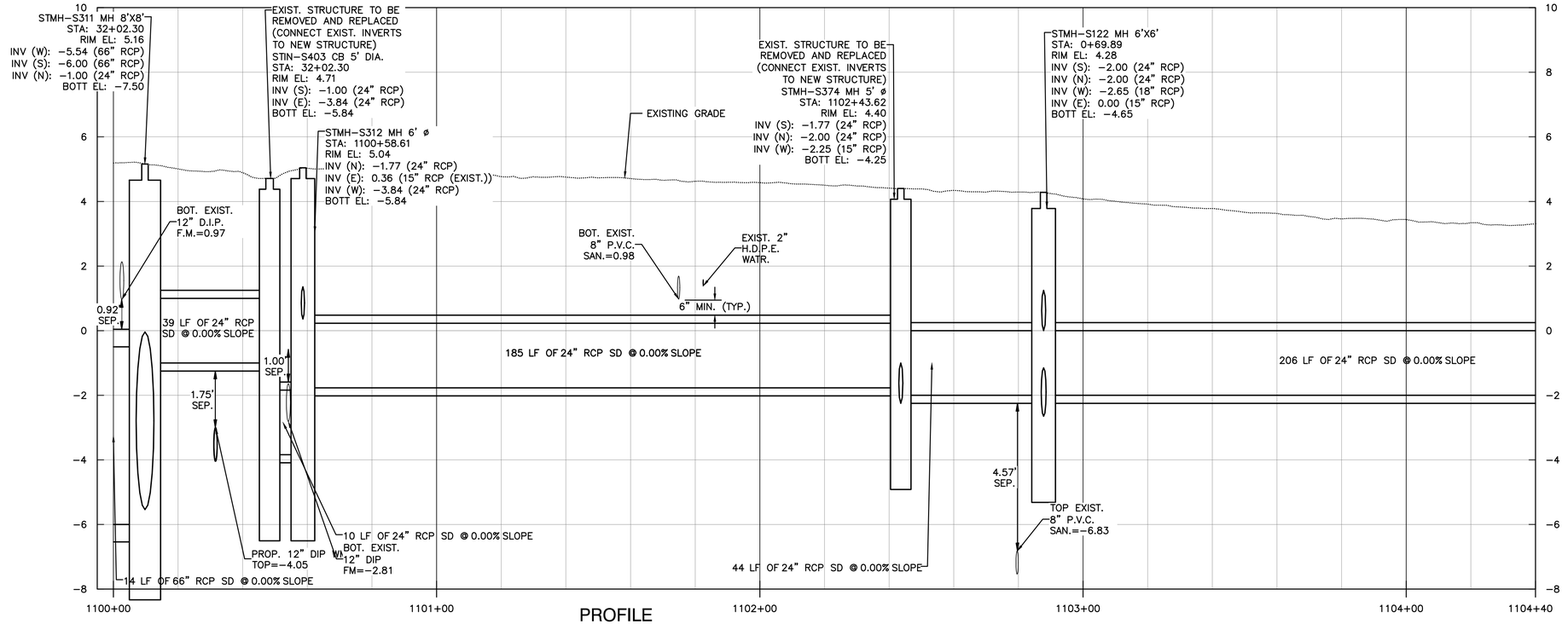
PLAN

SCALE: 1"=20'



KEY MAP

N.T.S.



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

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NOTES:

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8/26/2021

CONSTRUCTION SET

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Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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ENGINEER: PATRICK J. GIBNEY
REG. NO.: 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
CU-ST-51A

TOTAL: 255

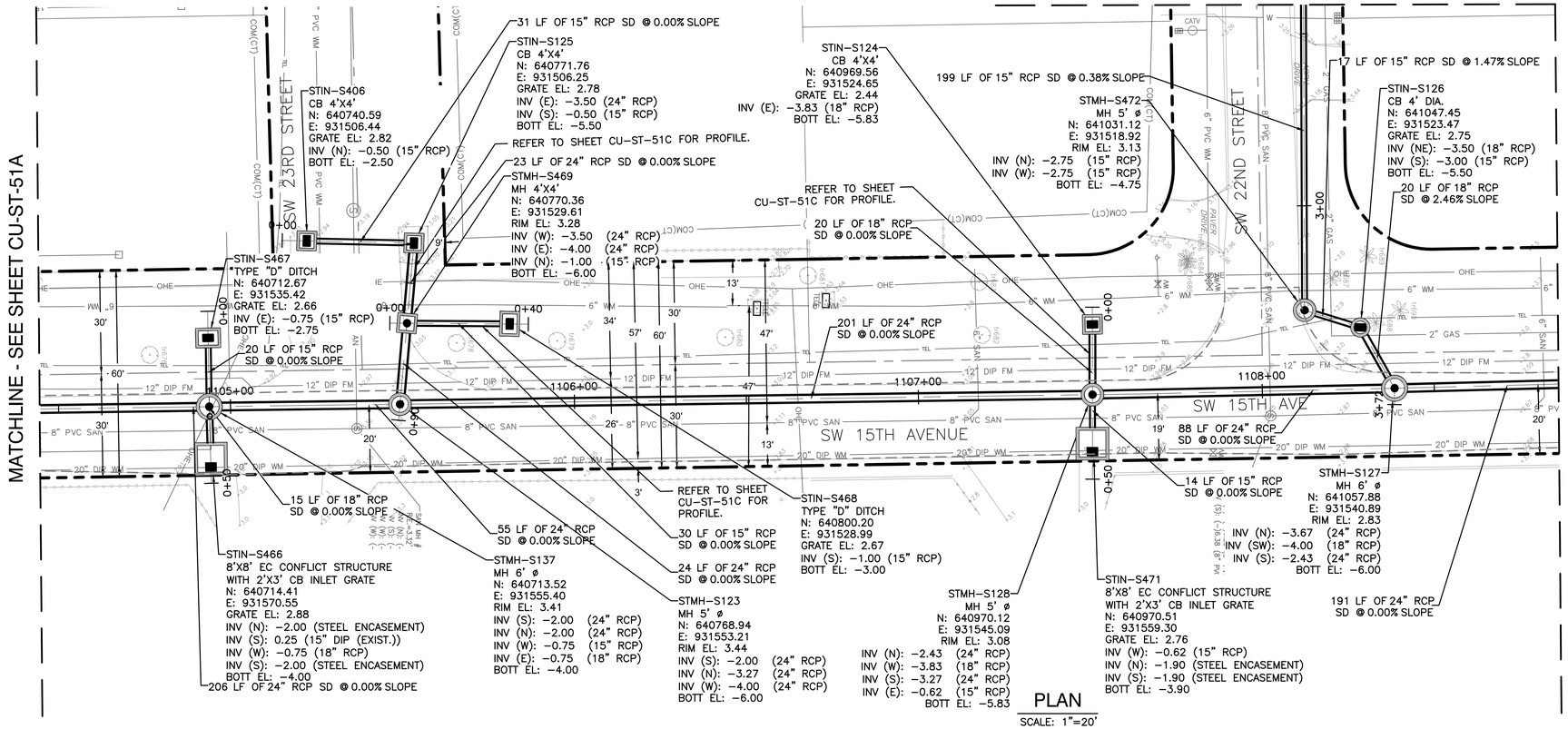
CAD FILE: 11868-CU-ST-C

DRAWING FILE NO. 4-142-42

MATCHLINE - SEE SHEET CU-ST-42B

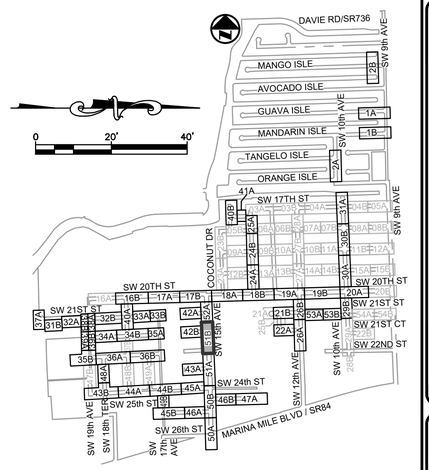
MATCHLINE - SEE SHEET CU-ST-51A

MATCHLINE - SEE SHEET CU-ST-52A



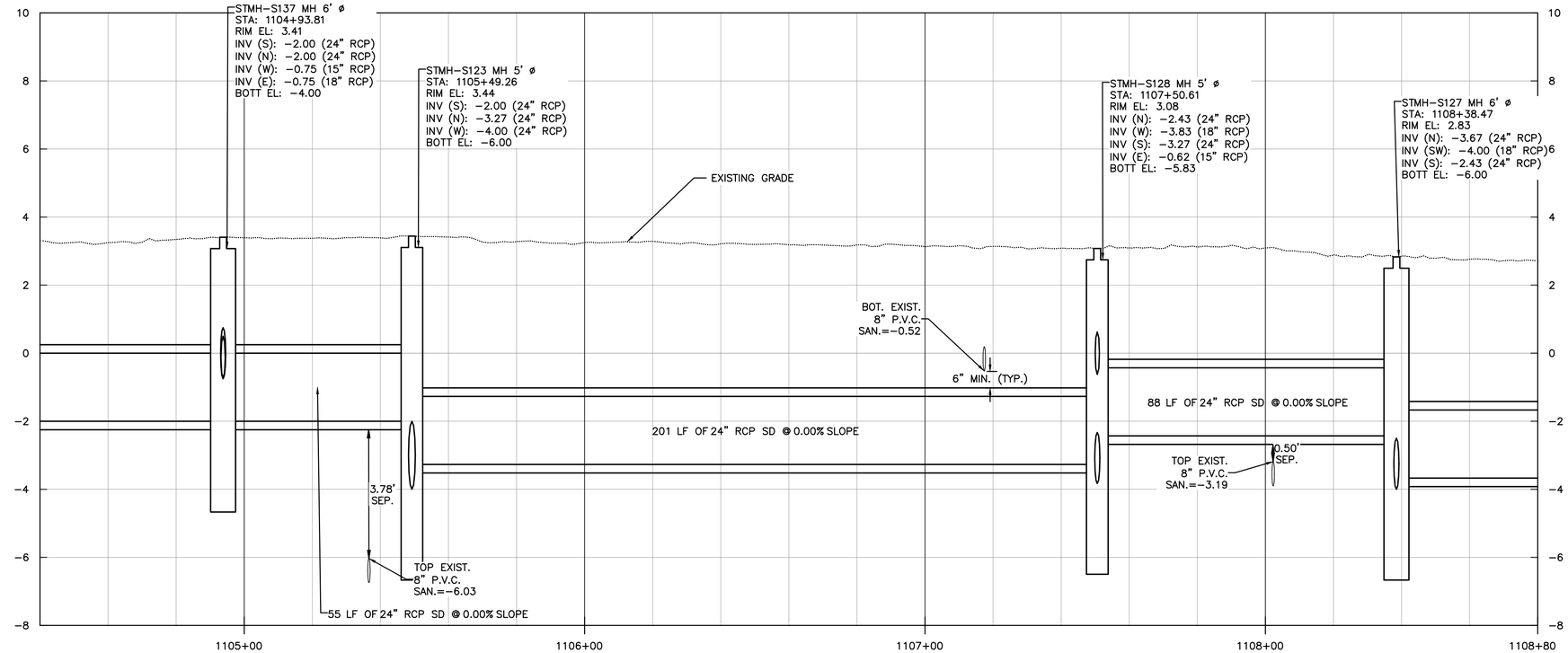
PLAN

SCALE: 1"=20'



KEY MAP

N.T.S.



PROFILE

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Certificate of Authorization No: 2771

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ENGINEER: PATRICK J. GIBNEY
REG. NO. 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
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CITY OF FORT LAUDERDALE
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8/26/2021

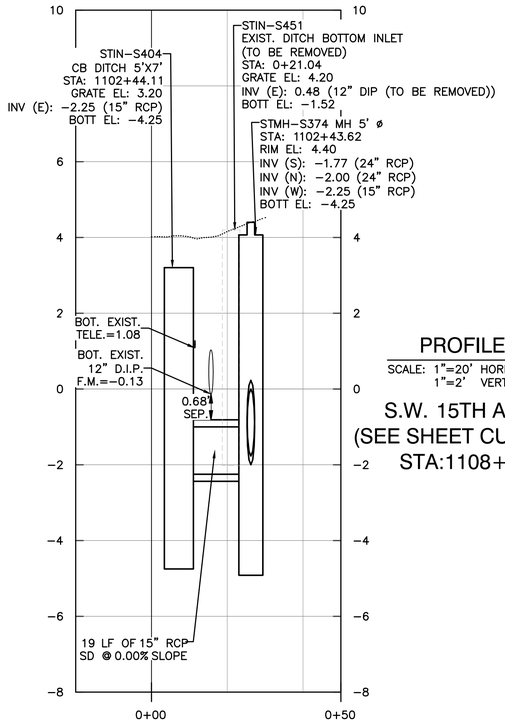
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-51B

TOTAL: 255

CAD FILE: 11868-CU-ST-C

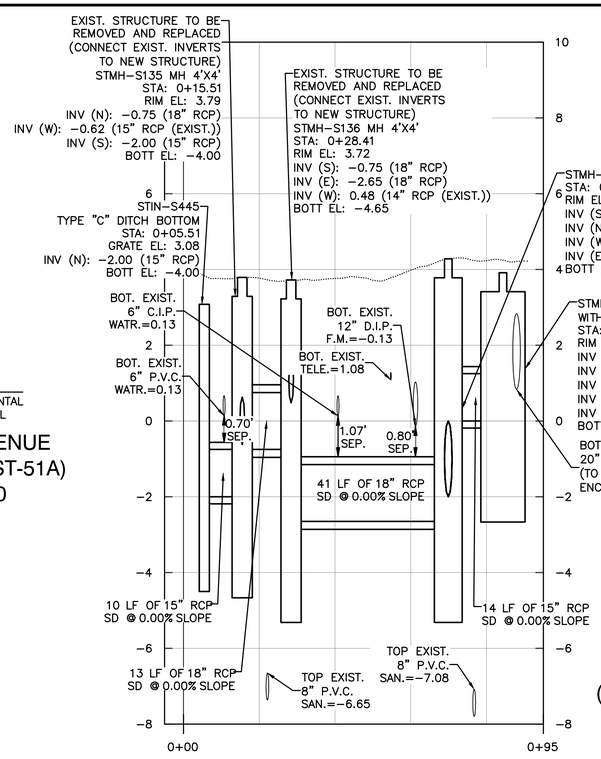
DRAWING FILE NO. 4-142-42



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

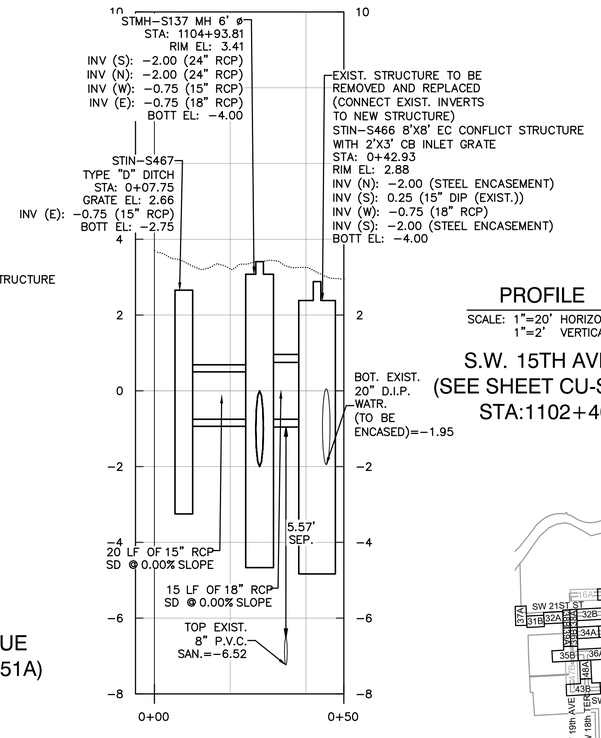
S.W. 15TH AVENUE
(SEE SHEET CU-ST-51A)
STA:1108+30



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

S.W. 15TH AVENUE
(SEE SHEET CU-ST-51A)
STA:1108+30



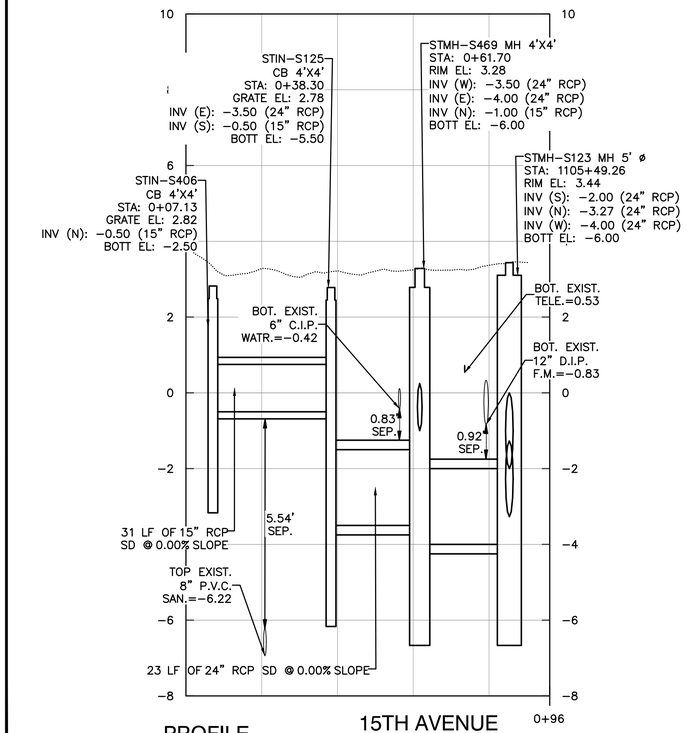
PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

S.W. 15TH AVENUE
(SEE SHEET CU-ST-51B)
STA:1102+40

KEY MAP

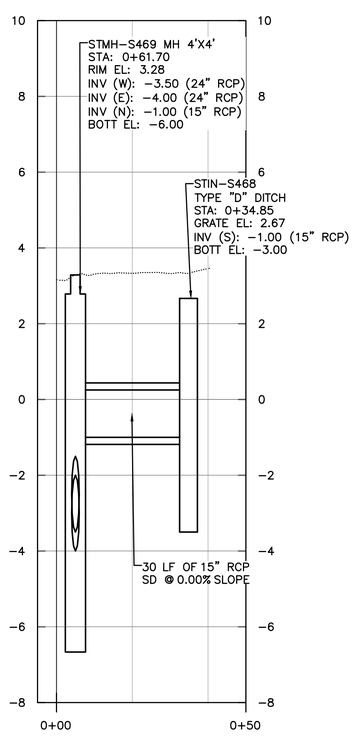
N.T.S.



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

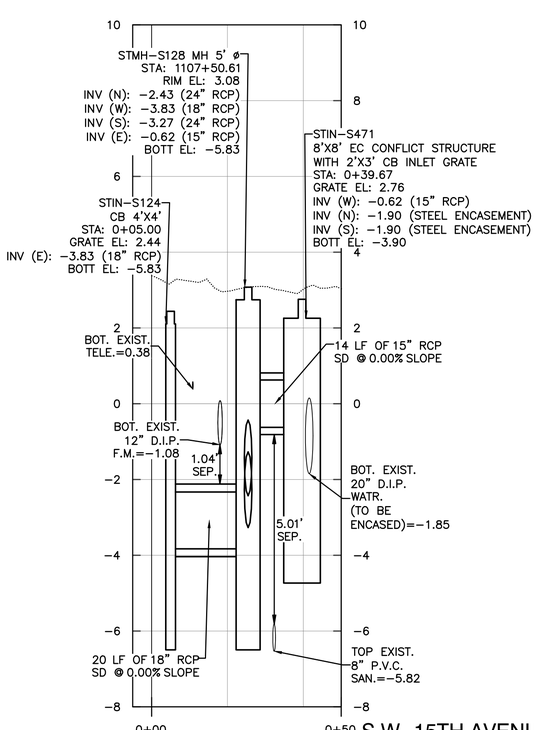
15TH AVENUE
(SEE SHEET CU-ST-51B)
STA:1107+70



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

S.W. 15TH AVENUE
(SEE SHEET CU-ST-51B)
STA:1108+30



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

S.W. 15TH AVENUE
(SEE SHEET CU-ST-51B)
STA:1108+30

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).
3. TRENCH CUTS AND RESTORATION ACROSS EXISTING PAVEMENT SHALL BE PER FDOT DESIGN STANDARDS INDEX 307.

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

Patrick J. Gibney, State of Florida, Professional Engineer, License No. 49428. This item has been electronically signed and sealed by Patrick J. Gibney on the date indicated here using an SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

8/26/2021

CONSTRUCTION SET

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

CRAVEN • THOMPSON AND ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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ENGINEER: PATRICK J. GIBNEY
PE No. 49428
DATE: 01/22/2021
TEL: 954-739-6400
FAX: 954-739-6409

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-51C

TOTAL: 255

CAD FILE:
11868-CU-ST-C

DRAWING FILE NO.
4-142-42

MATCHLINE - SEE SHEET CU-ST-42A

MATCHLINE - SEE SHEET CU-ST-17B

MATCHLINE - SEE SHEET CU-ST-51B

MATCHLINE - SEE SHEET CU-ST-18A

STIN-S129
TYPE "D" DITCH
N: 641248.28
E: 931508.91
GRATE EL: 2.36
INV (E): -3.78 (18" RCP)
BOTT EL: -5.78

STIN-S120
CB 5' DIA.
N: 641297.43
E: 931506.93
GRATE EL: 2.34
INV (E): -4.00 (18" RCP)
INV (W): -3.00 (15" RCP)
BOTT EL: -6.00

22 LF OF 18" RCP
SD @ 0.00% SLOPE

REFER TO SHEET
CU-ST-52C FOR PROFILE.

191 LF OF 24" RCP
SD @ 0.00% SLOPE

23 LF OF 18" RCP
SD @ 0.00% SLOPE

146 LF OF 15" RCP
SD @ 0.69% SLOPE

STMH-S116
MH 6' Ø
N: 641291.63
E: 931528.98
RIM EL: 2.68
INV (E): -2.00 (15" RCP)
INV (W): -4.00 (18" RCP)
INV (N): -2.05 (24" RCP)
INV (S): -2.05 (24" RCP)
BOTT EL: -6.00

177 LF OF 24" RCP
SD @ 0.00% SLOPE

STMH-S111
MH 6' Ø
N: 641468.93
E: 931520.99
RIM EL: 2.96
INV (N): -3.60 (24" DIP)
INV (W): -3.59 (18" RCP)
INV (S): -2.05 (24" RCP)
INV (E): -2.00 (15" RCP)
BOTT EL: -5.60

18 LF OF 15" RCP
SD @ 0.00% SLOPE

REFER TO SHEET
CU-ST-52C FOR PROFILE.

STIN-S130
CB 4' DIA.
N: 641467.99
E: 931499.09
GRATE EL: 2.38
INV (E): -3.59 (18" RCP)
BOTT EL: -5.59

22 LF OF 18" RCP
SD @ 0.00% SLOPE

159 LF OF 24" RCP
SD @ 0.00% SLOPE

STMH-S110
MH 7' Ø
N: 641536.81
E: 931518.07
RIM EL: 2.97
INV (W): -4.22 (24" RCP)
INV (S): -3.60 (24" D.I.P.)
INV (E): -5.27 (36" RCP)
BOTT EL: -7.27

144 LF OF 36" RCP
SD @ 0.00% SLOPE

STMH-S316
MH 5' Ø
N: 641248.62
E: 931530.95
RIM EL: 2.71
INV (S): -3.67 (24" RCP)
INV (N): -2.05 (24" RCP)
INV (W): -3.78 (18" RCP)
BOTT EL: -5.78

43 LF OF 24" RCP
SD @ 0.00% SLOPE

17 LF OF 15" RCP
SD @ 0.00% SLOPE

STIN-S119
8'X8' EC CONFLICT STRUCTURE
WITH 2'X3' CB INLET GRATE
N: 641290.58
E: 931545.93
GRATE EL: 2.40
INV (W): -2.00 (15" RCP)
INV (S): -2.45 (STEEL ENCASEMENT)
INV (N): -2.45 (STEEL ENCASEMENT)
BOTT EL: -4.45

STIN-S366
8' MH EC CONFLICT STRUCTURE
WITH 2'X3' CB INLET GRATE
N: 641465.24
E: 931538.52
GRATE EL: 2.39
INV (W): -2.00 (15" RCP)
INV (N): -2.50 (STEEL ENCASEMENT)
INV (S): -2.50 (STEEL ENCASEMENT)
BOTT EL: -4.50

SW 21ST STREET

SW 15TH AVENUE

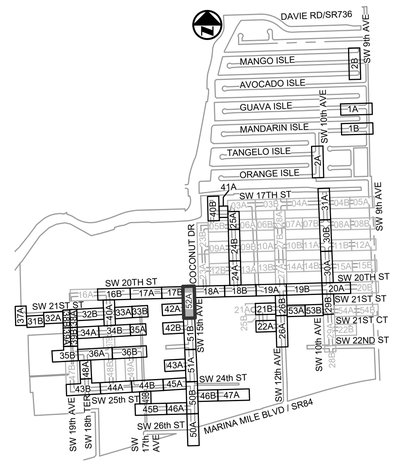
SW 20TH STREET

1110+00 | 1111+00 | 1112+00 | 1113+00 | 1113+28

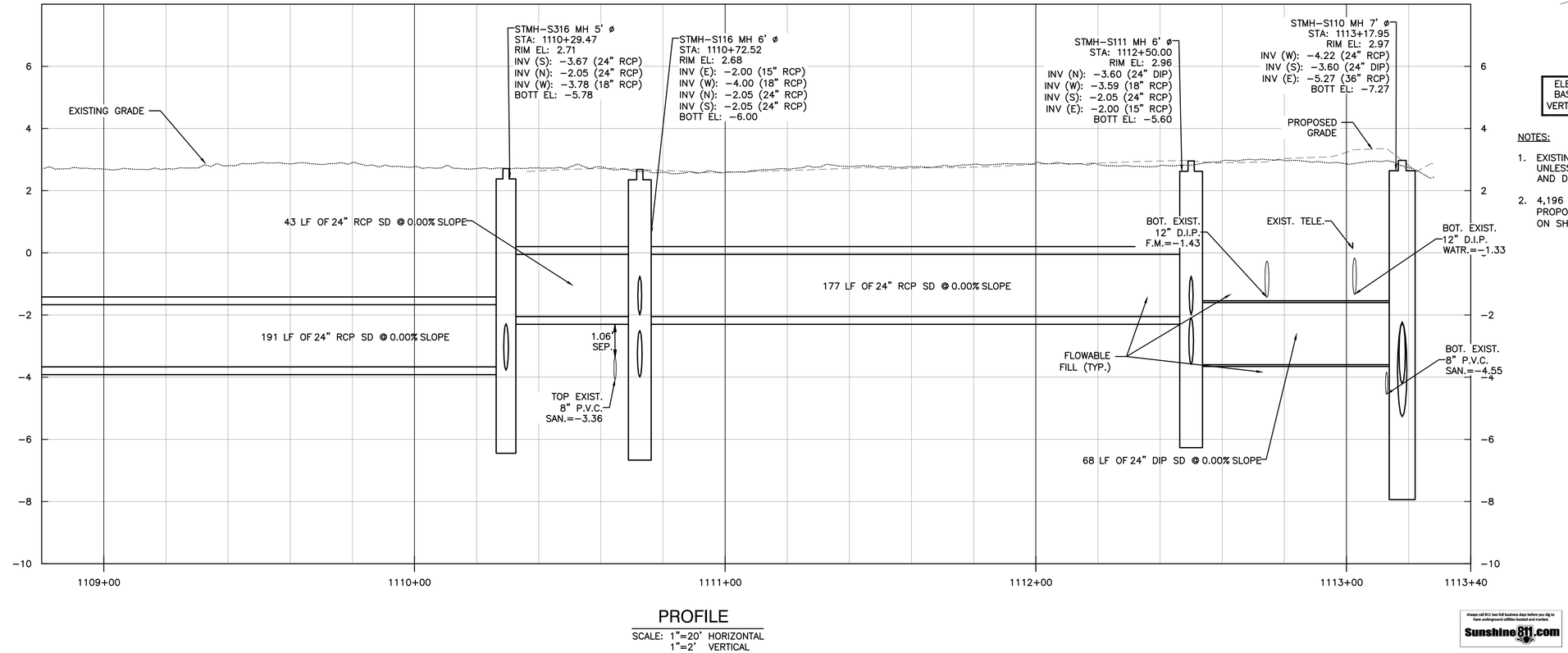
0+00 | 0+35 | 3+00 | 4+00 | 0+00 | 0+53

0 20' 40'

PLAN
SCALE: 1"=20'



KEY MAP
N.T.S.



PROFILE
SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

NOTES:

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Sunshine811.com

CONSTRUCTION SET

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8/26/2021

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

CRAVEN • THOMPSON AND ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
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ENGINEER: PATRICK J. GIBNEY
REG. NO. 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN & PROFILE

SHEET NO.
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TOTAL: 255

CAD FILE: 11868-CU-ST-C

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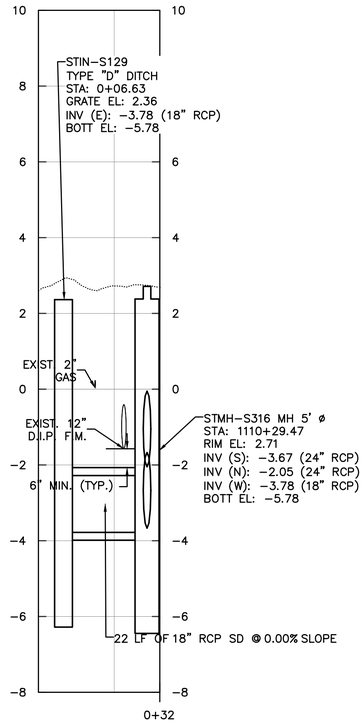
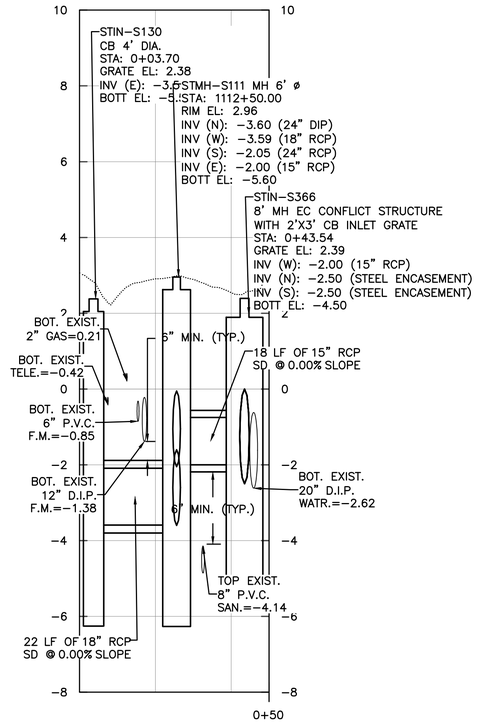


PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

S.W. 15TH AVENUE
(SEE SHEET CU-ST-52A)
STA:1110+60



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL

S.W. 15TH AVENUE
(SEE SHEET CU-ST-52A)
STA:1110+50

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

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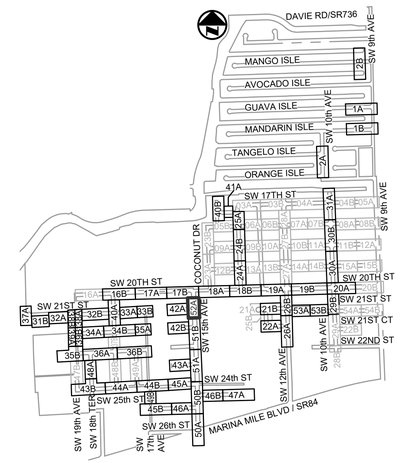

KEY MAP

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ENGINEER: PATRICK J. GIBNEY
REG. No.: 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
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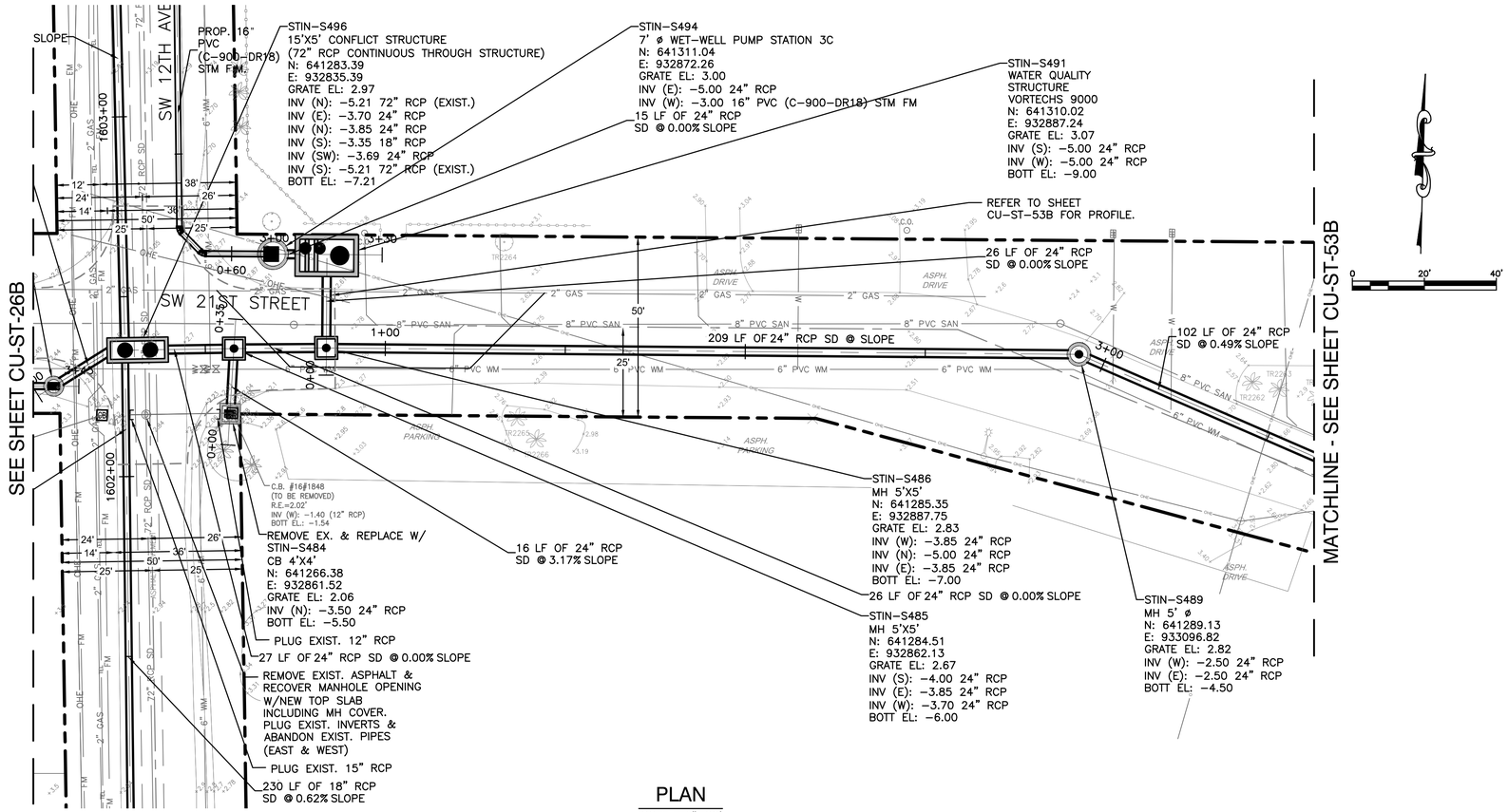
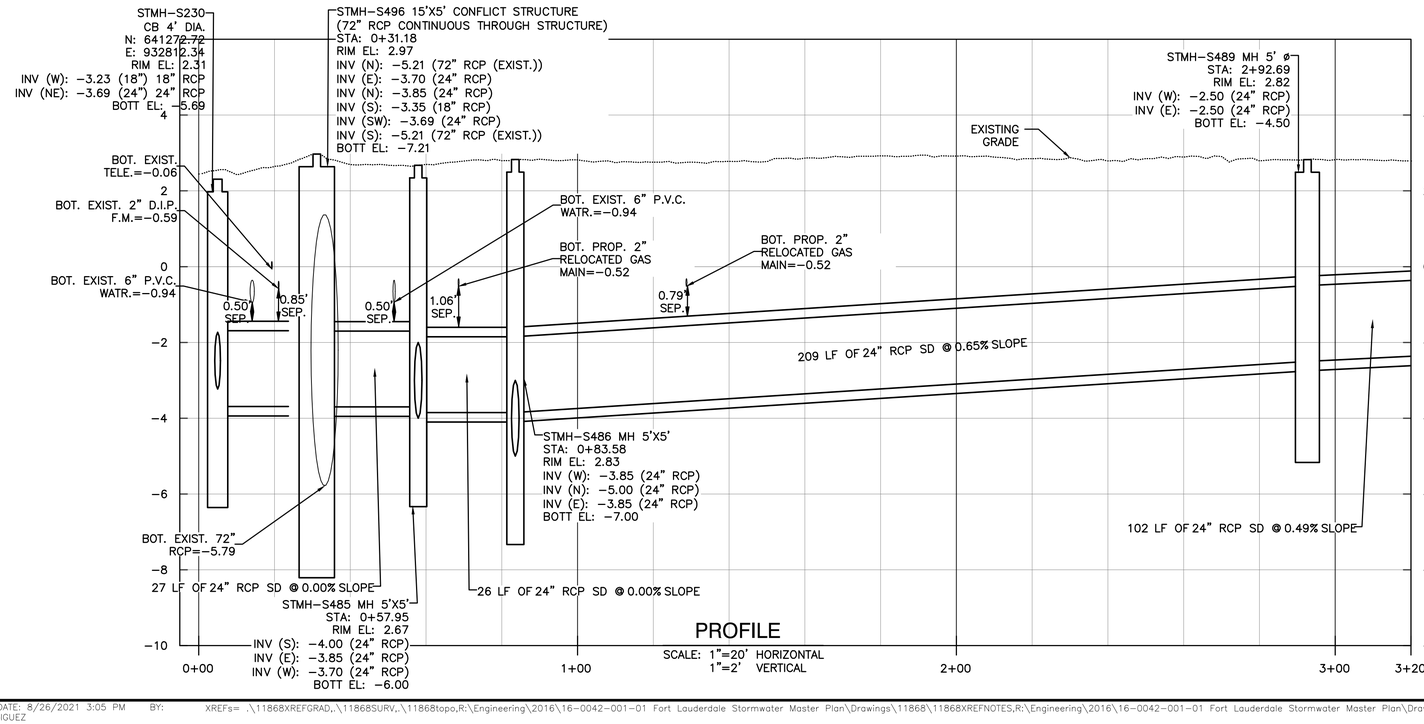


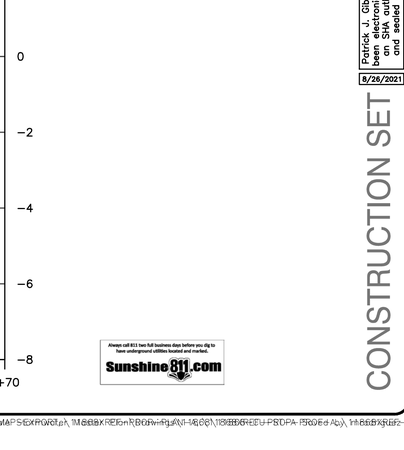
PLAN

SCALE: 1"=20'



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL



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FAX: 954-987-2949

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SCALE: 1"=20'
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SHEET NO.
CU-ST-53A

TOTAL: 255

CAD FILE: 11868-CU-ST-A

DRAWING FILE NO. 4-142-42

9/20/2022 9:05 AM

PLOT DATE: 8/26/2021 3:05 PM BY: MRODRIGUEZ

XREFs= .\11868XREFGRAD,.\11868SURV,.\11868topo,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFNOTES,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFENGINEERING,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFCOVERSHEET,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFSURVEY,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFSTRUCTURES,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFSTRUCTURES-SHEETS,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFSTRUCTURES-SHEETS-PSOPS,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFSTRUCTURES-SHEETS-PSOPS-PROFILES,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFSTRUCTURES-SHEETS-PSOPS-PROFILES-2,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFSTRUCTURES-SHEETS-PSOPS-PROFILES-3,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFSTRUCTURES-SHEETS-PSOPS-PROFILES-4,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFSTRUCTURES-SHEETS-PSOPS-PROFILES-5,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFSTRUCTURES-SHEETS-PSOPS-PROFILES-6,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFSTRUCTURES-SHEETS-PSOPS-PROFILES-7,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFSTRUCTURES-SHEETS-PSOPS-PROFILES-8,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master 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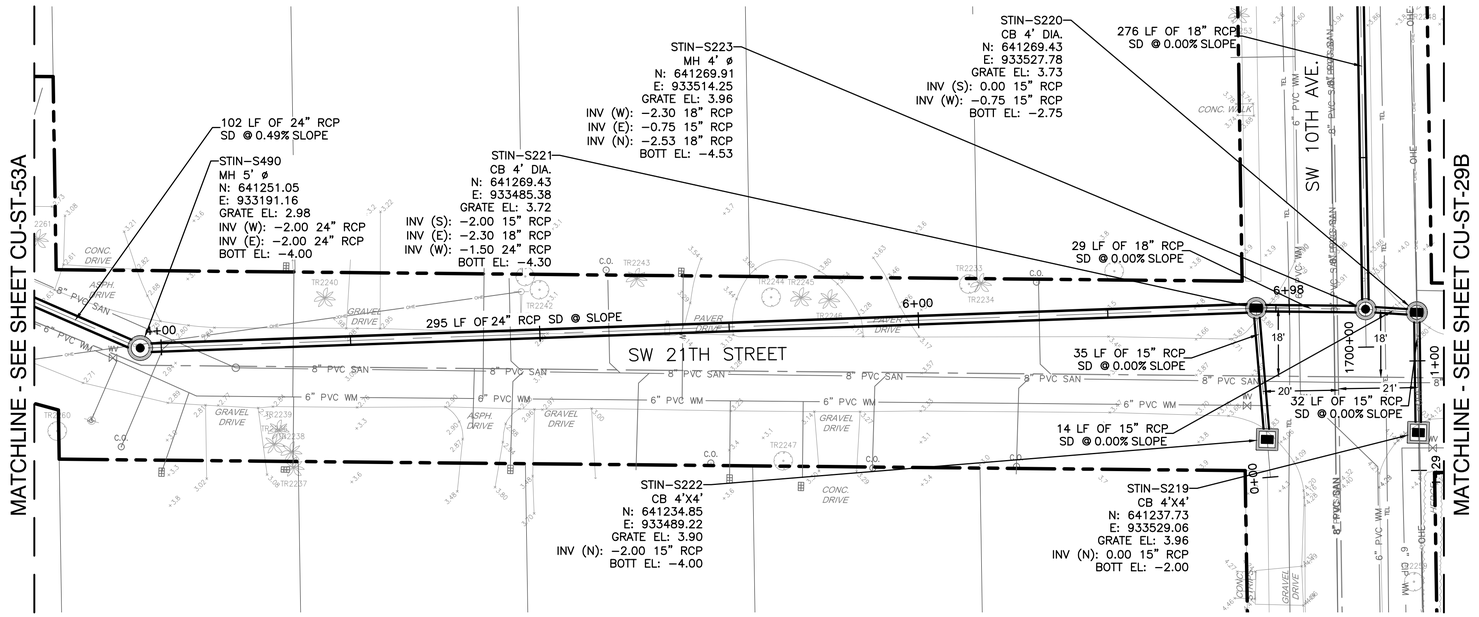
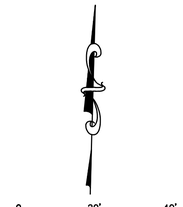
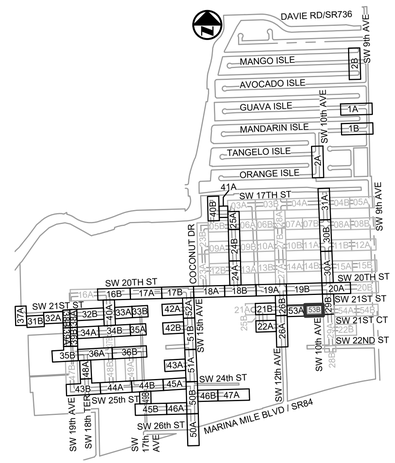


PLAN

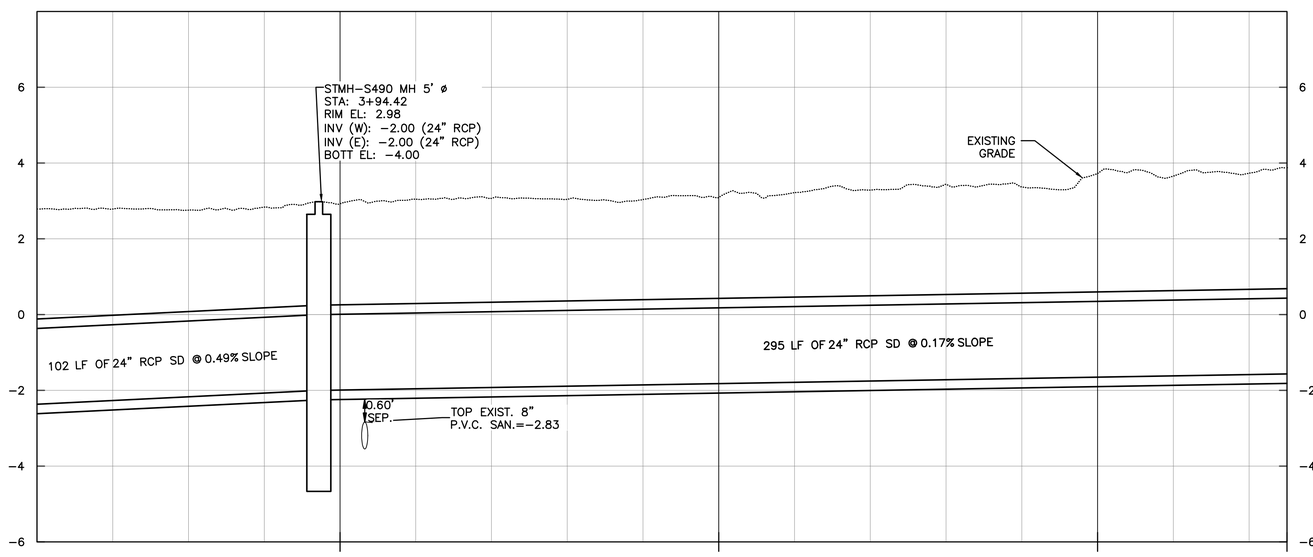
SCALE: 1"=20'





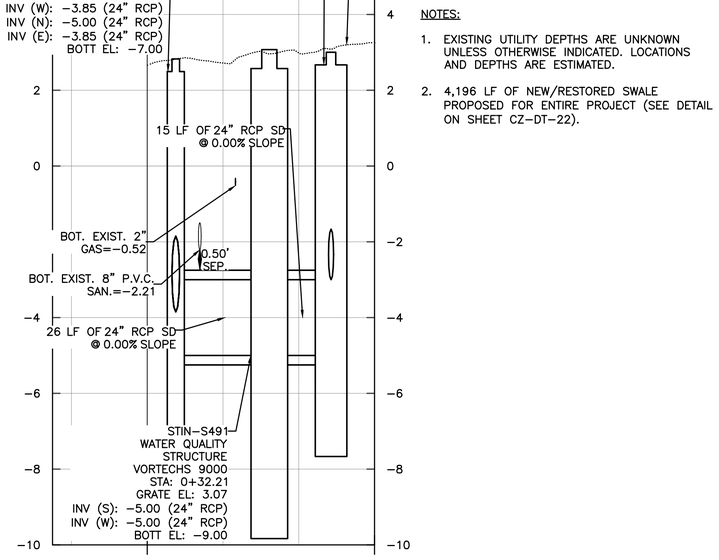
KEY MAP

N.T.S.



PROFILE

SCALE: 1"=20' HORIZONTAL
1"=2' VERTICAL



ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

CONSTRUCTION SET

Patrick J. Gibney, State of Florida, Professional Engineer, License No. 49428. This item has been electronically signed and sealed by Patrick J. Gibney on the date indicated here using an SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

8/26/2021

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

CRAVEN • THOMPSON AND ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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ENGINEER: PATRICK J. GIBNEY
REG. No. 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DESIGNED BY: XXX
DATE: 01/07/2019
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

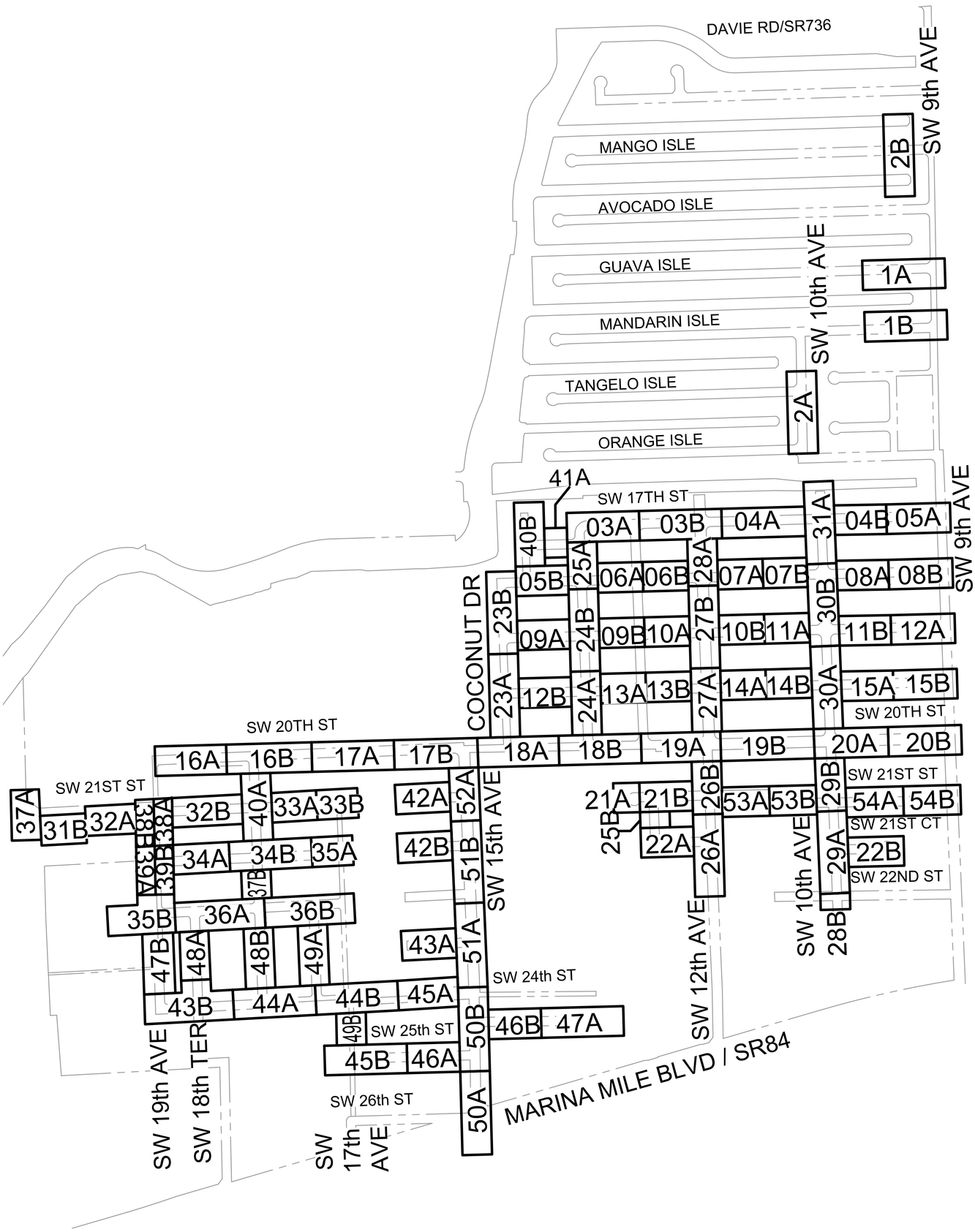
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
STORM DRAINAGE PLAN &
PROFILE

SHEET NO.
CU-ST-53B

TOTAL: 255

CAD FILE: 11868-CU-ST-A

DRAWING FILE NO. 4-142-42



CONSTRUCTION SET

NOTES:

1. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT.
2. EXISTING PAVEMENT MARKINGS & SIGNAGE TO BE REMOVED & REPLACED TO CURRENT BCTED STANDARDS.

Patrick J. Gibney, State of Florida, Professional Engineer, License No. 49428 This item has been electronically signed and sealed by Patrick J. Gibney on the date indicated here using an SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

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FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 571
FLORIDA LICENSED LANDSCAPE ARCHITECTURAL BUSINESS No. 0000174

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
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PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING SITE KEY MAP

REVISIONS				
NO.	DATE	BY	CHK'D	DESCRIPTION

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

DRAWN BY: XXX	DATE: 01/07/2019
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CHECKED BY: XXX	
FIELD BOOK: XXXX	

ENGINEER:
PATRICK J. GIBNEY
REG. No: 49428
DATE: 02/01/2017

TEL: 954-987-0066
FAX: 954-987-2949

SHEET NO. CP-KY-01

TOTAL: 255

CAD FILE: 11868-CP-KY01

DRAWING FILE NO. 4--142--42

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City of Fort Lauderdale
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FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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PUBLIC WORKS DEPARTMENT
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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

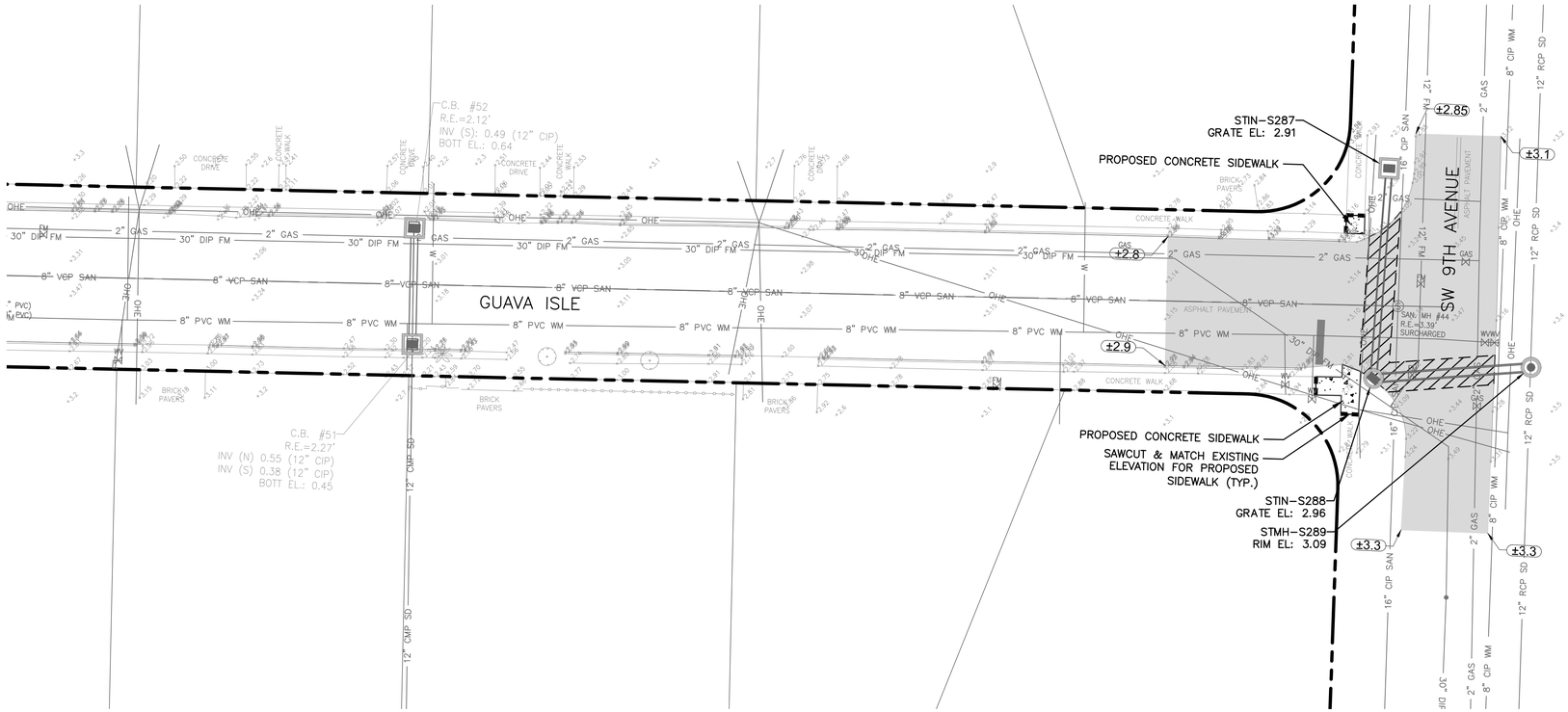
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING OVERALL
PLAN

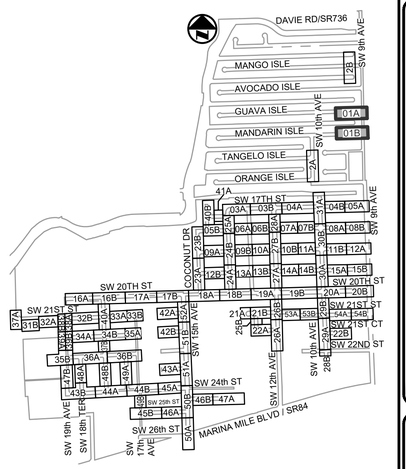
SHEET NO.
CP-KY-02

TOTAL: 255

CAD FILE:
11868-CP-KY01

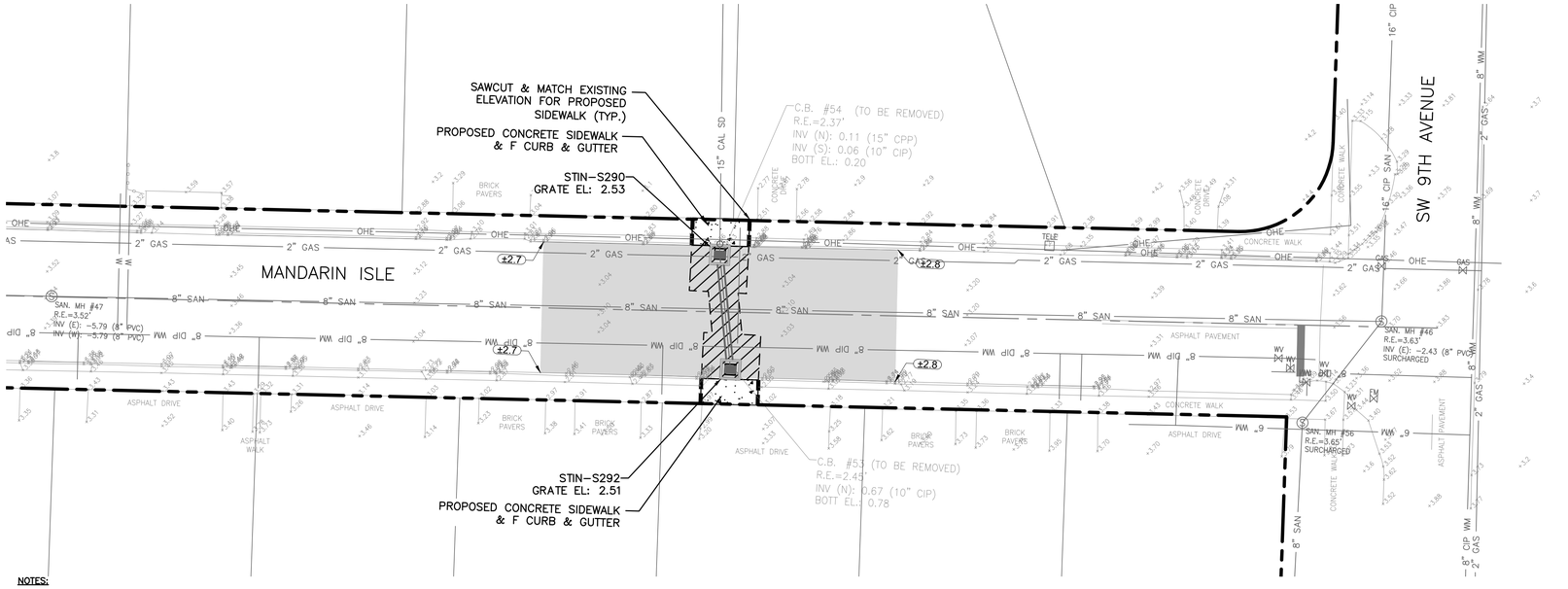
DRAWING FILE NO.
4-142-42





KEY MAP

N.T.S.



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13. ALL NEW ADA CURB RAMPS SHALL INCLUDE DETECTABLE WARNING STRIP PER CITY STD DETAIL–ROAD 013

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CONSTRUCTION SET

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Hazen

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SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING PLAN

SHEET NO.
CP-ST-01

TOTAL: 255

CAD FILE:
11868-CP-ST-D

DRAWING FILE NO.
4-142-42

PLOT DATE: 8/26/2021 11:36 AM BY: ASCHEFFER
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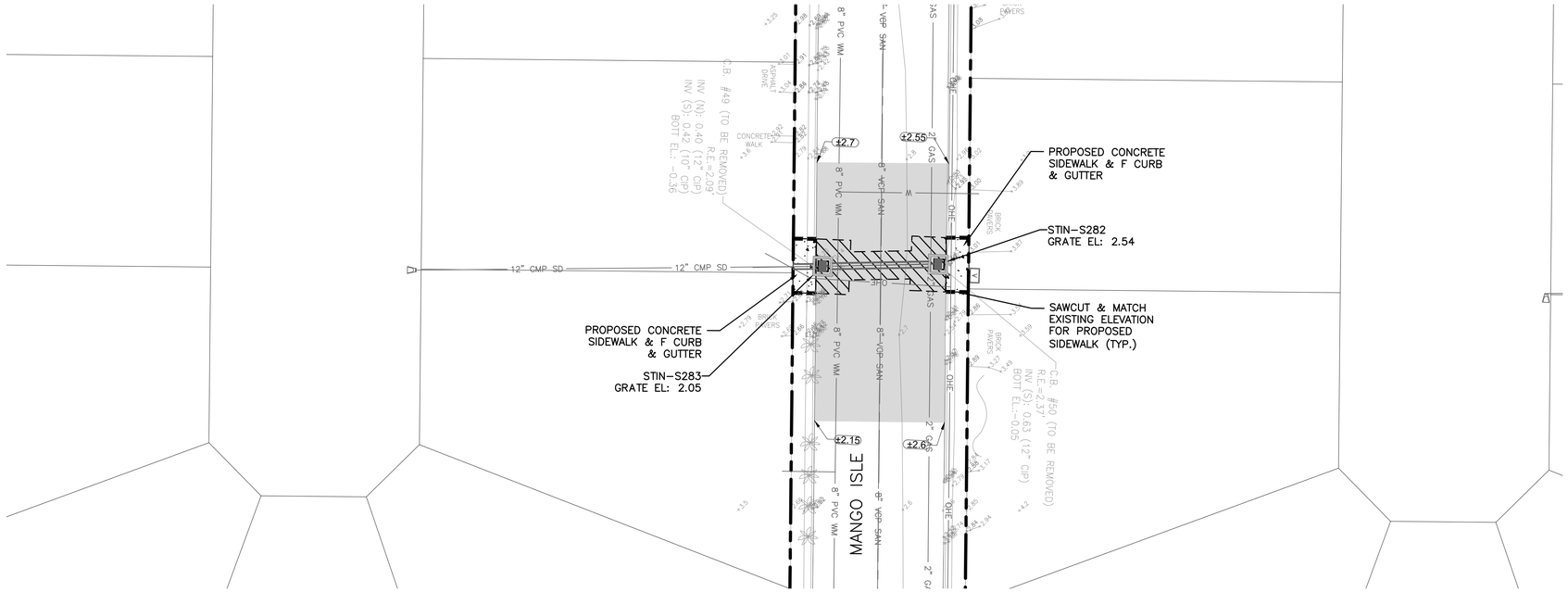

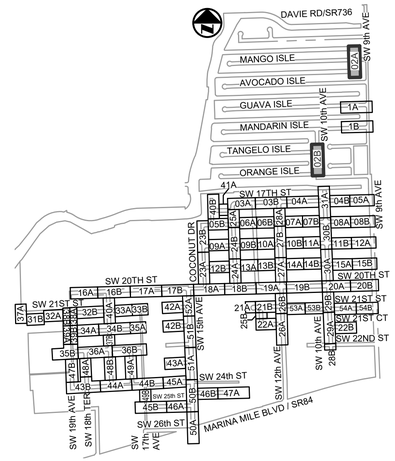

KEY MAP

N.T.S.

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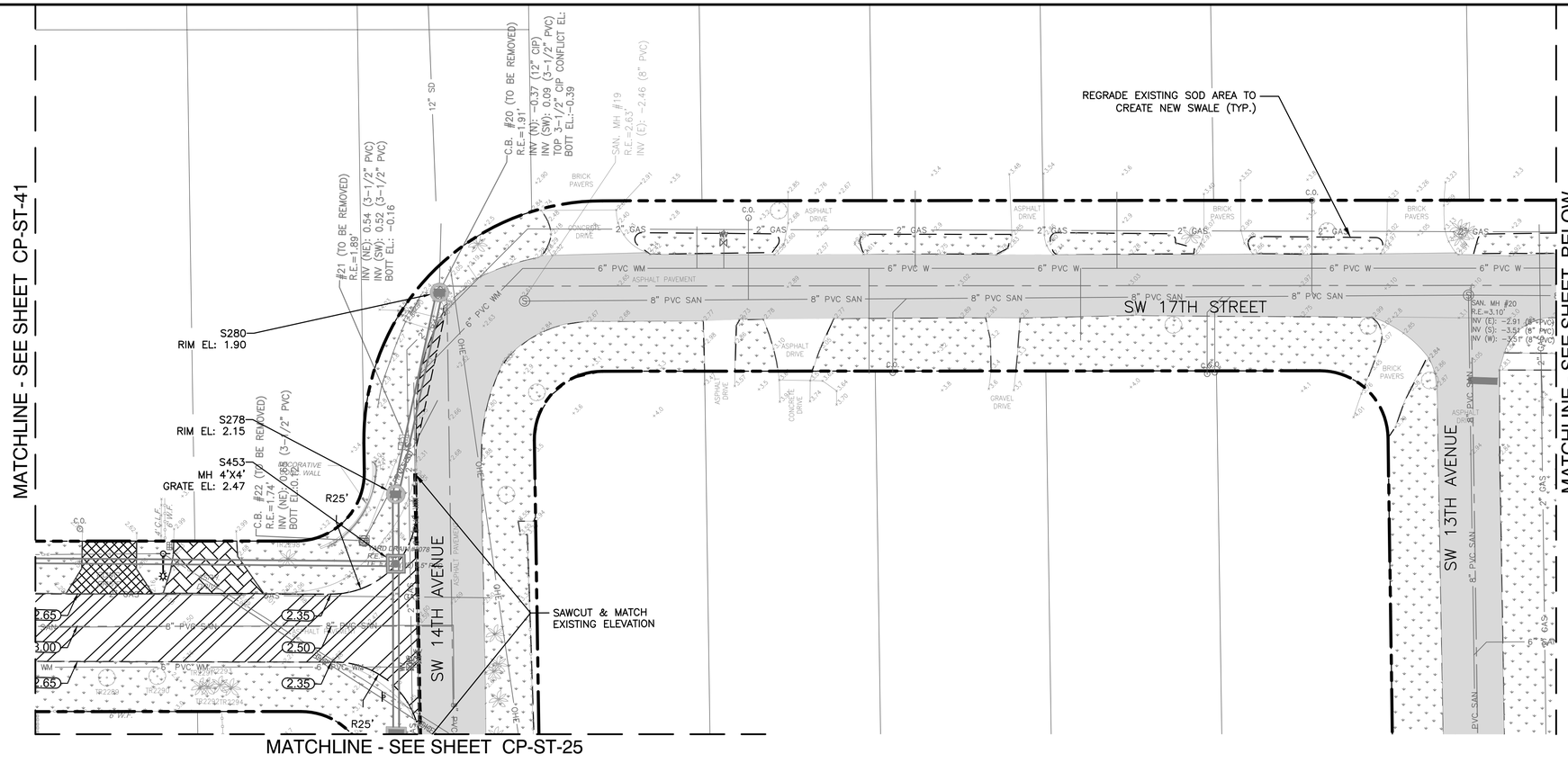
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING PLAN

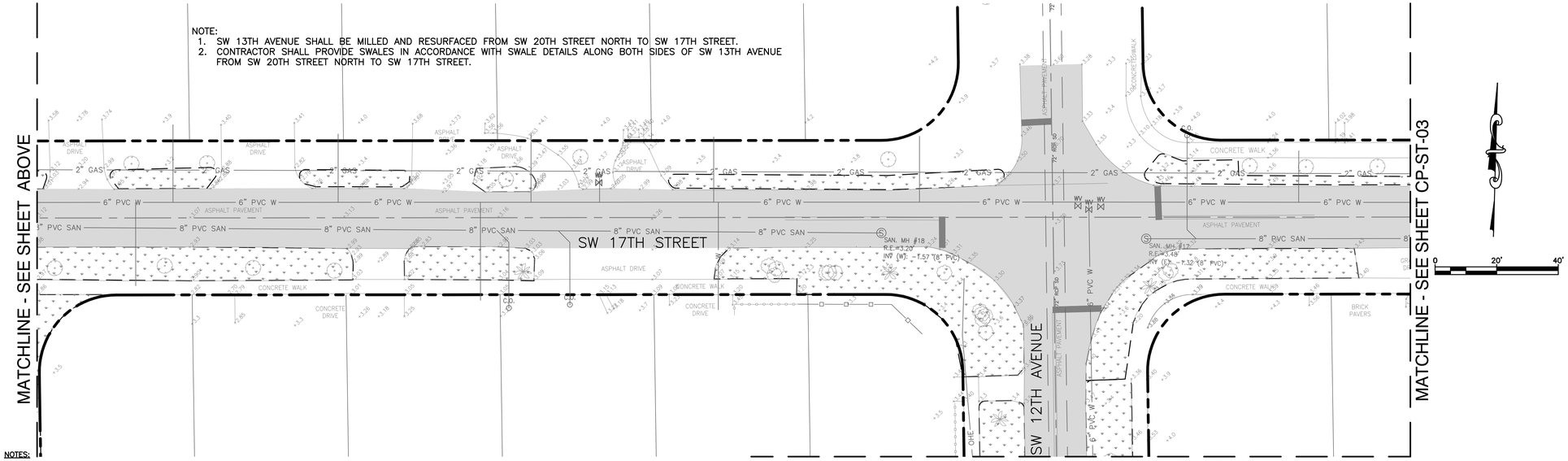
SHEET NO.
CP-ST-02

TOTAL: 255

CAD FILE: 11868–CP–ST–D

DRAWING FILE NO. 4–142–42





NOTE:
1. SW 13TH AVENUE SHALL BE MILLED AND RESURFACED FROM SW 20TH STREET NORTH TO SW 17TH STREET.
2. CONTRACTOR SHALL PROVIDE SWALES IN ACCORDANCE WITH SWALE DETAILS ALONG BOTH SIDES OF SW 13TH AVENUE FROM SW 20TH STREET NORTH TO SW 17TH STREET.

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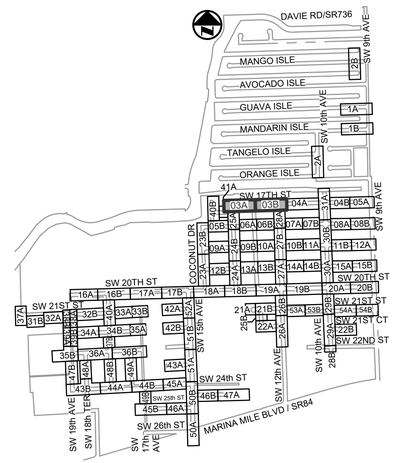

KEY MAP

N.T.S.

ENGINEER: PATRICK J. GIBNEY
REG. No.: 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

CRAVEN • THOMPSON AND ASSOCIATES, INC.
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FAX: (954) 739-6409 TEL: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

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8/26/2021

CONSTRUCTION SET

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING PLAN

SHEET NO.
CP-ST-03

TOTAL: 255

CAD FILE: 11868-CP-ST-A

DRAWING FILE NO. 4-142-42

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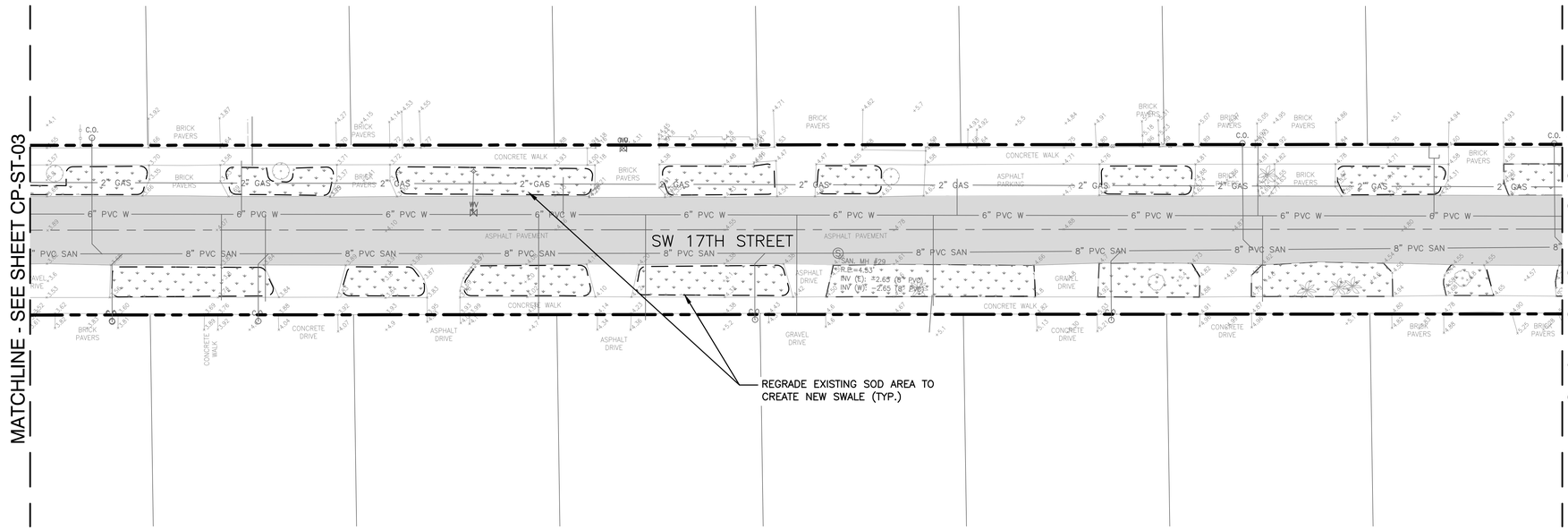

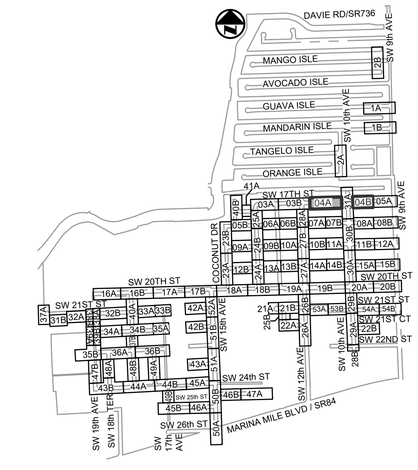

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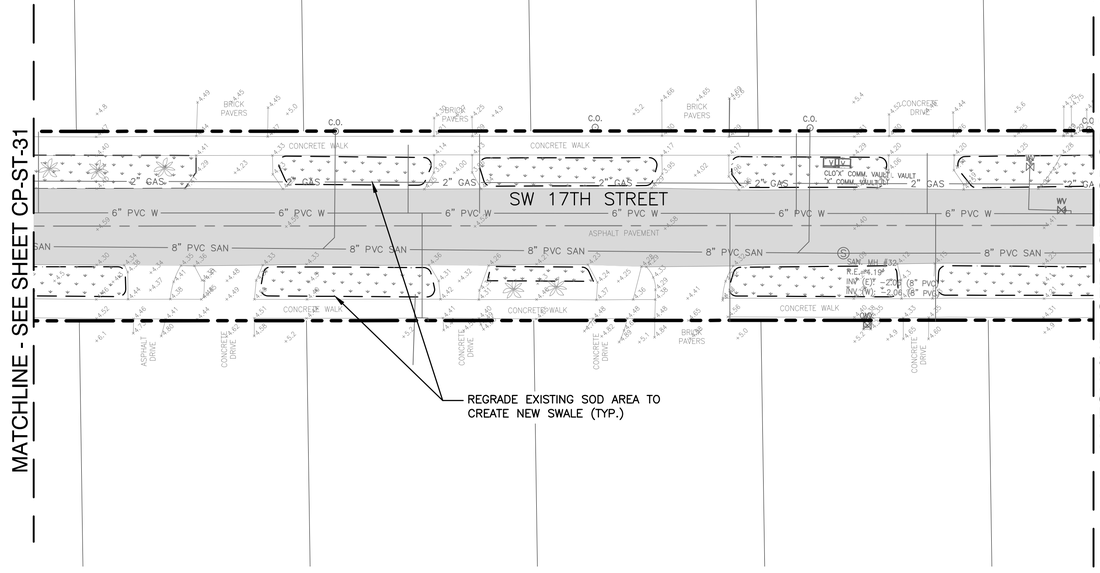

NOTES:

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CONSTRUCTION SET

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CITY OF FORT LAUDERDALE
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ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

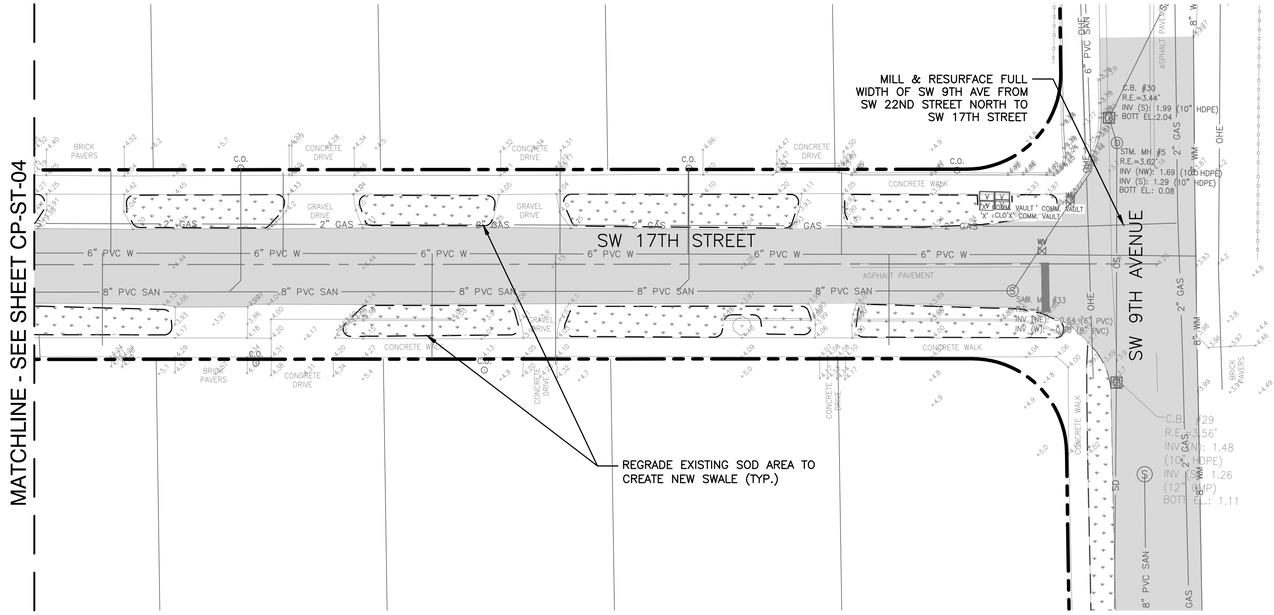
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING PLAN

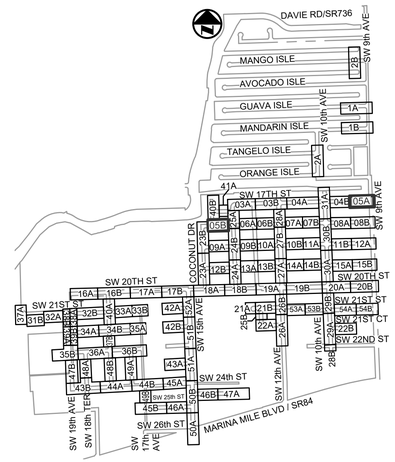
SHEET NO.
CP-ST-04

TOTAL: 255

CAD FILE:
11868-CP-ST-A

DRAWING FILE NO.
4-142-42





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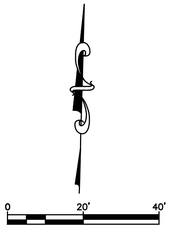

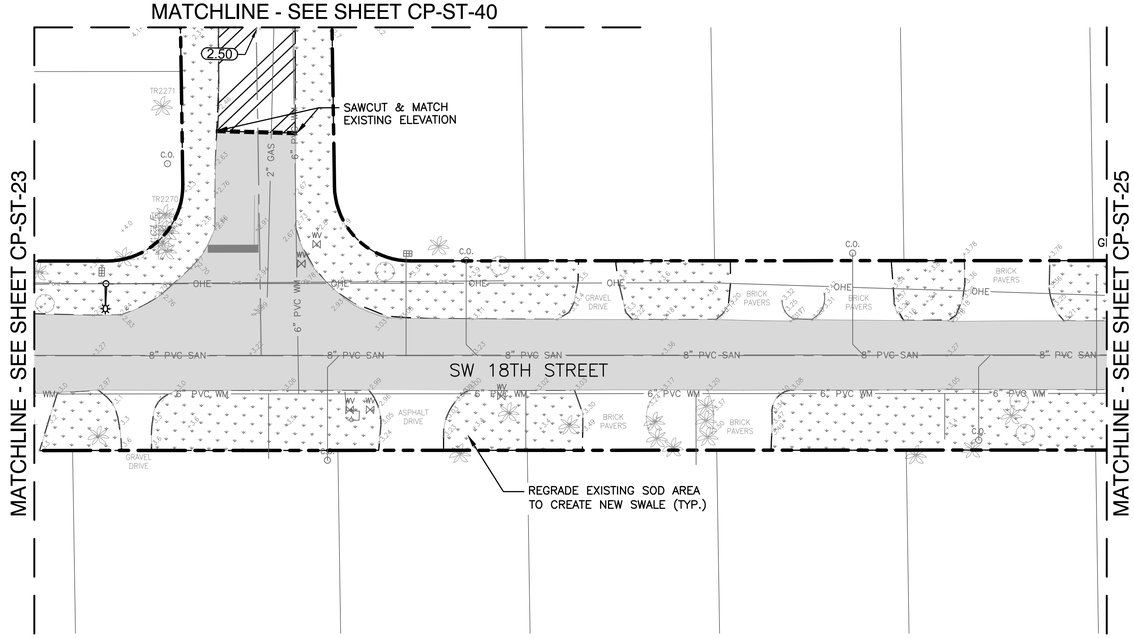

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8/26/2021

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HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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ENGINEER: PATRICK J. GIBNEY
REG. #: 49428
DATE: 01/22/2021
TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

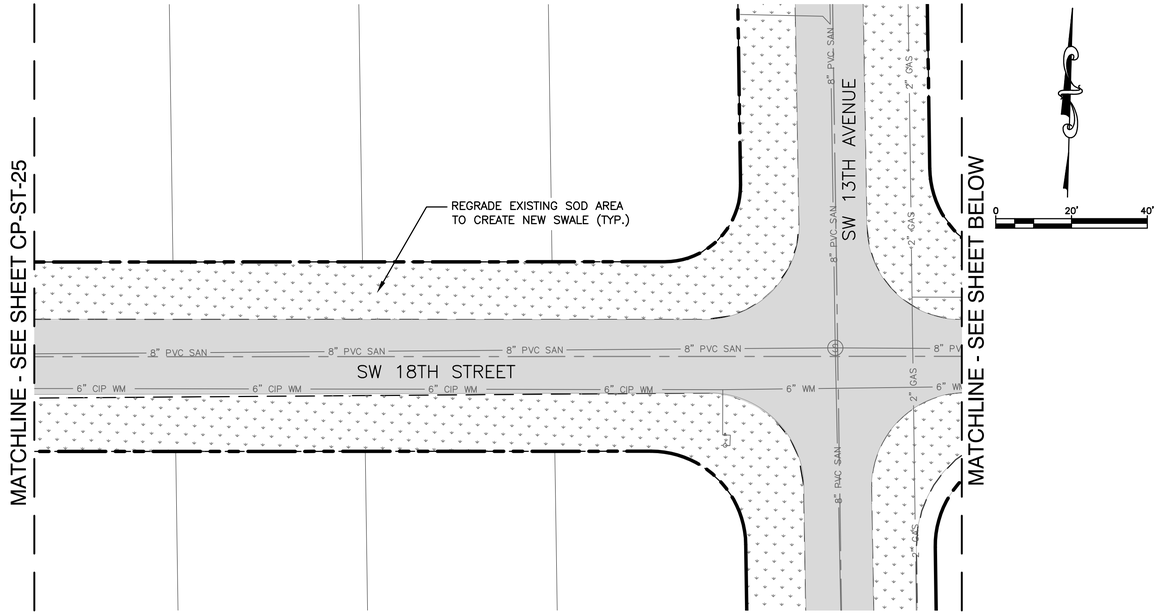
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING PLAN

SHEET NO.
CP-ST-05

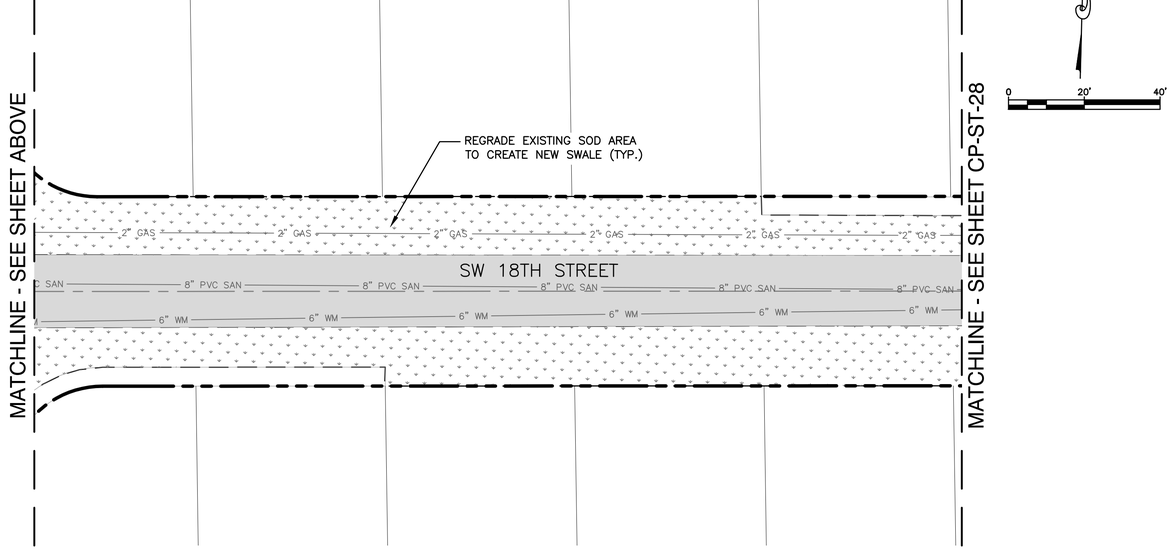
TOTAL: 255

CAD FILE: 11868-CP-ST-A

DRAWING FILE NO. 4-142-42



NOTE:
1. SW 13TH AVENUE SHALL BE MILLED AND RESURFACED FROM SW 20TH STREET NORTH TO SW 17TH STREET.
2. CONTRACTOR SHALL PROVIDE SWALES IN ACCORDANCE WITH SWALE DETAILS ALONG BOTH SIDES OF SW 13TH AVENUE FROM SW 20TH STREET NORTH TO SW 17TH STREET.



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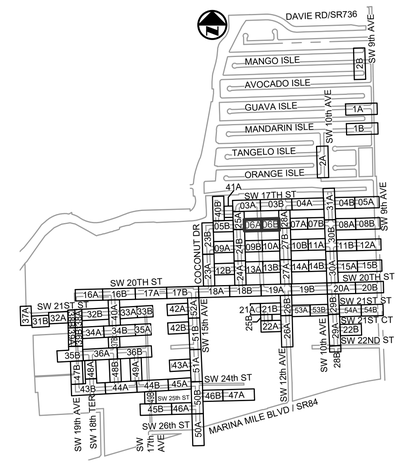

KEY MAP
N.T.S.

ENGINEER:
PATRICK J. GIBNEY
REG. No. 49428
DATE: 01/22/2021

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PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING PLAN

SHEET NO.
CP-ST-06

TOTAL: 255

CAD FILE:
11868-CP-ST-A

DRAWING FILE NO.
4-142-42

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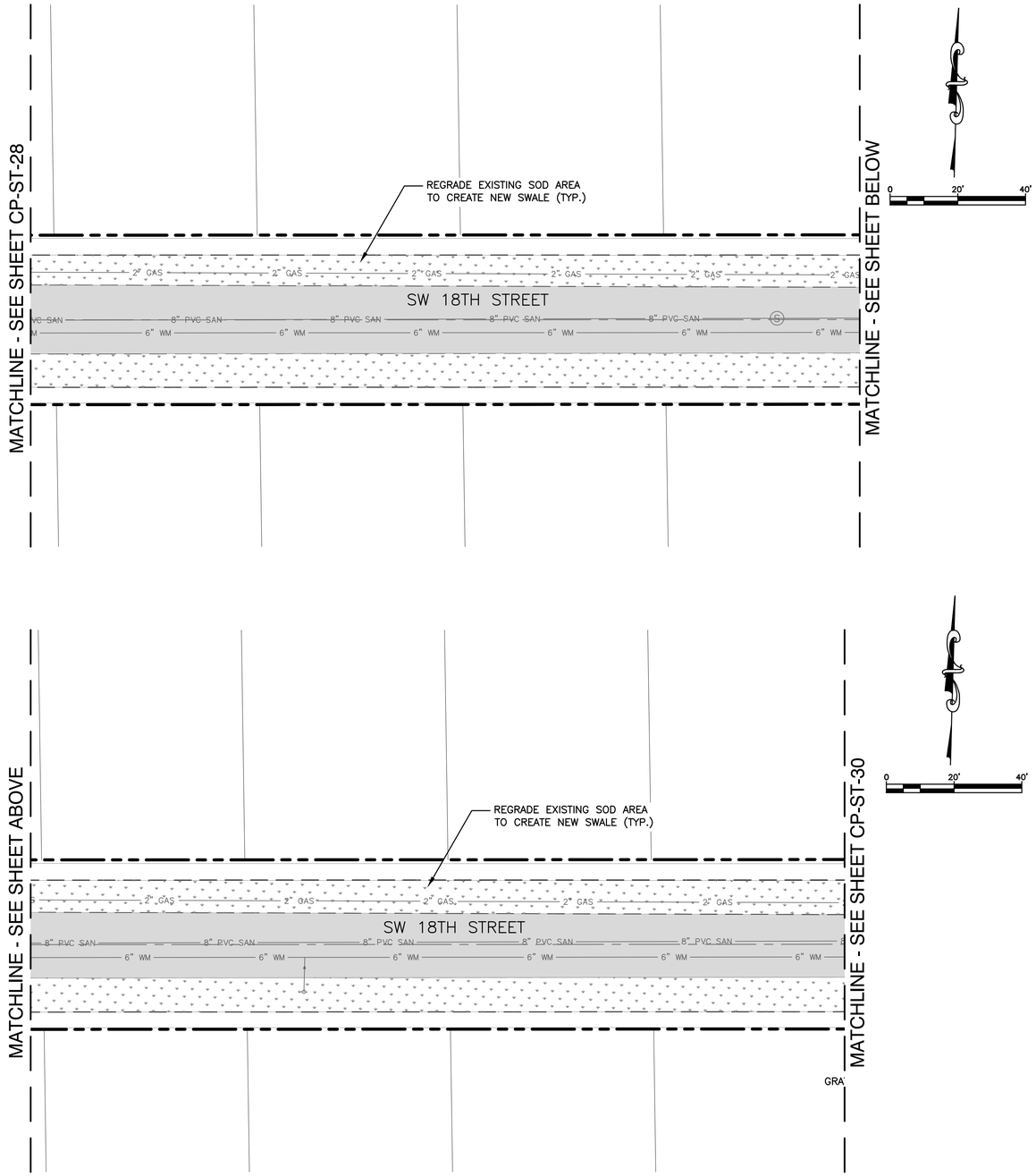

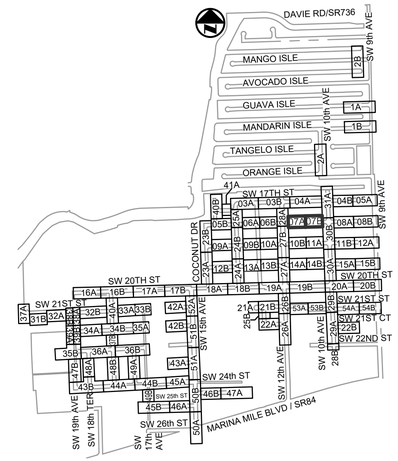

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FAX: 954-987-2949

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DATE: 01/07/2019
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FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

Patrick J. Gibney, State of Florida, Professional Engineer, License No. 49428. This item has been electronically signed and sealed by Patrick J. Gibney on the date indicated here using an SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

8/26/2021

CONSTRUCTION SET

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING PLAN

SHEET NO.
CP-ST-07

TOTAL: 255

CAD FILE: 11868-CP-ST-A

DRAWING FILE NO. 4-142-42

PLOT DATE: 8/26/2021 11:49 AM BY: ASCHEFFER
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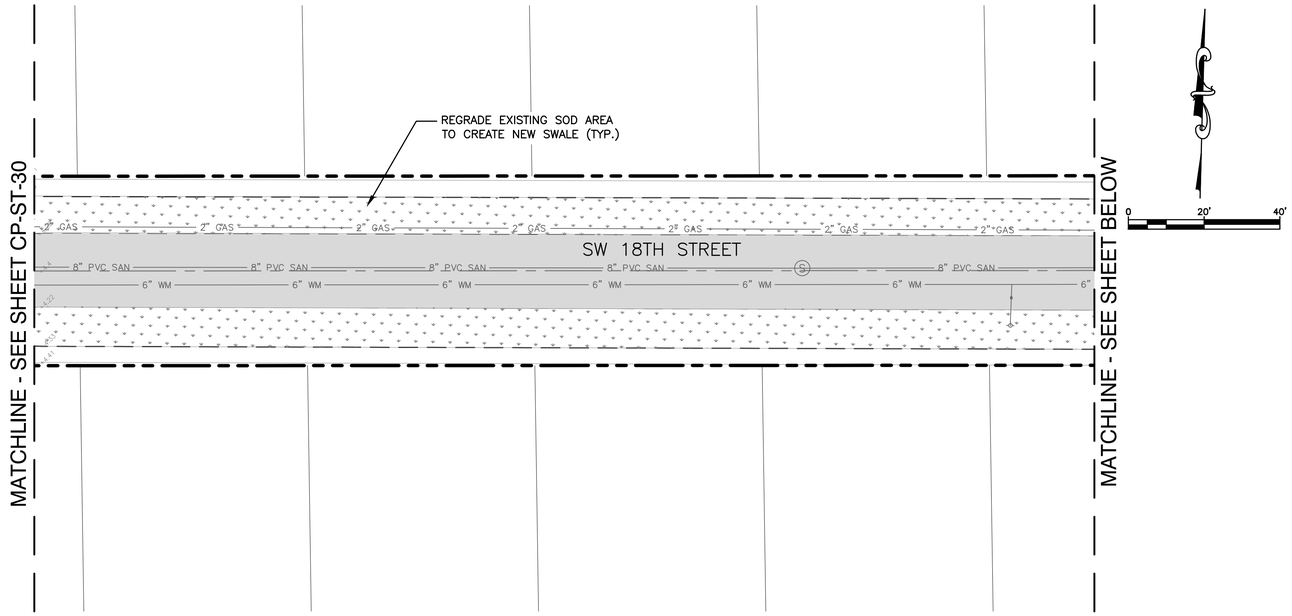

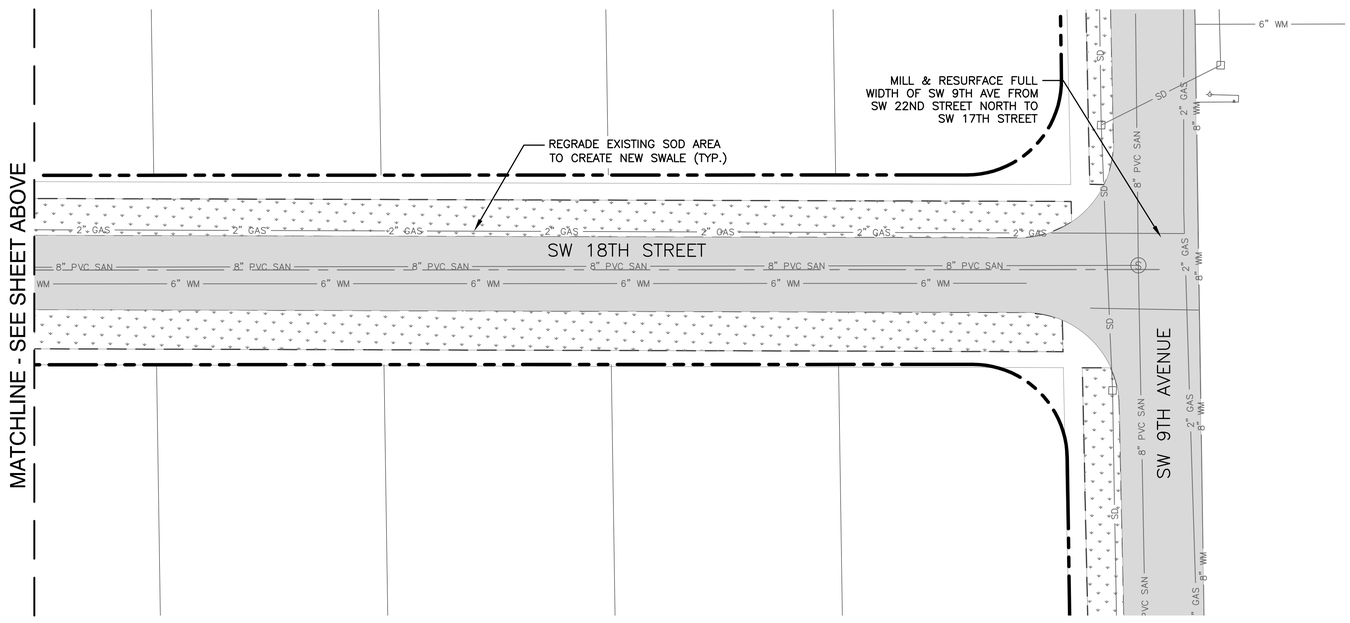

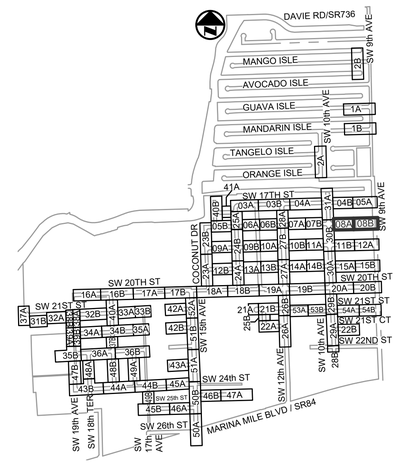

KEY MAP

N.T.S.

NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).
3. CONTRACTOR SHALL COORDINATE ALL ADJACENT TREE REMOVAL/RELOCATION WITH PROPERTY OWNER. AT OWNER'S DISCRETION CONTRACTOR SHALL MAKE TREE AVAILABLE OR PLAN/RELOCATE AT HOMEOWNER'S REQUEST WITH SIGNED WAIVER TO PLANT WITHIN PRIVATE PROPERTY.
4. ALL EXISTING UTILITIES MAY NOT BE SHOWN ON THIS PLAN. REFER TO EXISTING CONDITIONS PLANS FOR TYPE AND LOCATION OF EXISTING UTILITIES.
5. ALL EXISTING CATCH BASIN AND STORM DRAINS LOCATED WITHIN RIGHT-OF-WAY TO REMAIN UNLESS OTHERWISE SHOWN. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD PRIOR OF ANY REMOVAL OF ANY DRAINAGE STRUCTURE AND/OR PIPING BASINS AND STORM DRAINS REMOVED SHALL BE BACKFILLED PER CITY SPECIFICATIONS.
6. EXISTING CATCH BASINS LOCATED WITHIN RIGHT-OF-WAY MAY BE CONNECTED TO ADJACENT PROPERTY ROOF DRAINS. IF THIS SITUATION IS DISCOVERED DURING CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AND THE CONTRACTOR SHALL NOT REMOVE ANY PIPE OR CATCH BASINS UNLESS AUTHORIZED TO DO BY THE ENGINEER OF RECORD.
7. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY RELOCATION/COORDINATION OF EXISTING UTILITIES (WATER/SEWER) AS REQUIRED TO FACILITATE PROPOSED INFRASTRUCTURE.
8. ONCE ABANDONED, WATER MAIN CAN BE CUT AND REMOVED TO CONSTRUCT PROPOSED DRAINAGE. PLUG EXPOSED ENDS TO REMAIN.
9. EXISTING WATER MAIN/FORCE MAIN TO BE REMOVED AND REPLACED, AND NEW MAIN TO BE TESTED, APPROVED AND SERVICES CONNECTED PRIOR TO CONSTRUCTION OF STORM DRAINAGE.
10. ALL EXISTING DRAINAGE STRUCTURES TO REMAIN MAY REQUIRE ADJUSTMENT OF FRAME AND GRATE TO MEET PROPOSED GRADES.
11. CRACKED SIDEWALK FLAGS TO BE REMOVED EVEN IN AREAS NOTED TO REMAIN.
12. ALL EXISTING AND PROPOSED DRAINAGE STRUCTURES THAT ARE LOCATED IN A SWALE WITH AN OPEN GRATE SHALL BE PROVIDED WITH AN CONCRETE APRON.
13. ALL NEW ADA CURB RAMPS SHALL INCLUDE DETECTABLE WARNING STRIP PER CITY STD DETAIL-ROAD 013.

Always call 811 two full business days before you dig to have underground utilities located and marked.
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Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
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ENGINEER: PATRICK J. GIBNEY
REG. No.: 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

Patrick J. Gibney, State of Florida, Professional Engineer, License No. 49428. This item has been electronically signed and sealed by Patrick J. Gibney on the date indicated here using an SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

8/26/2021

CONSTRUCTION SET

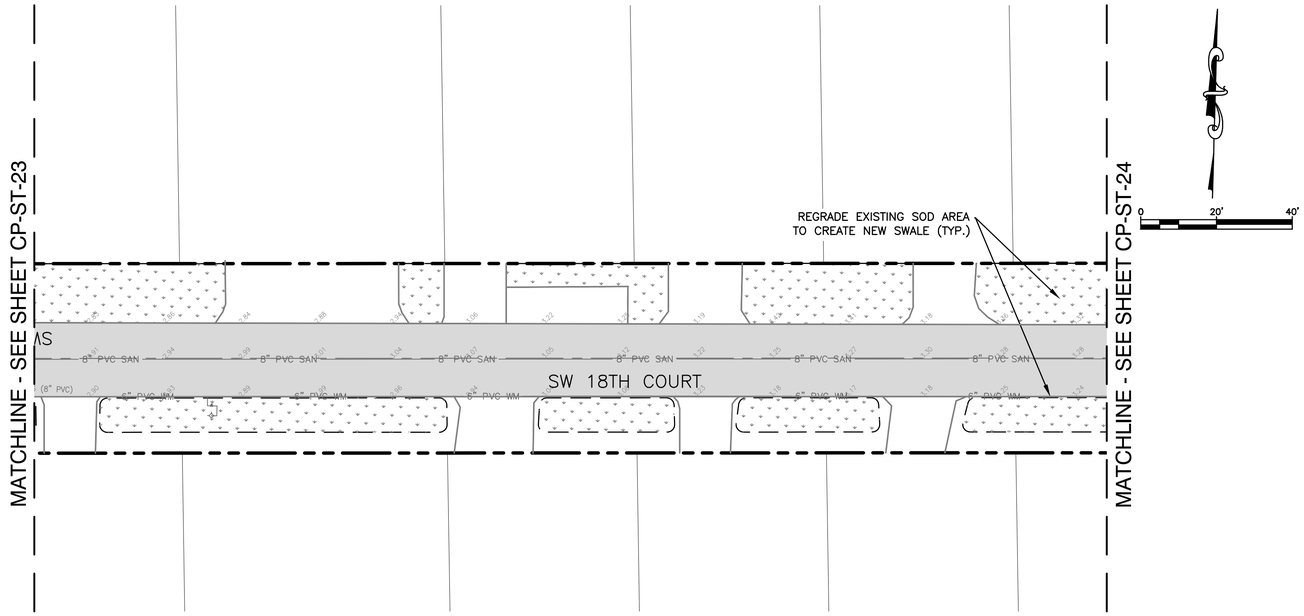
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING PLAN

SHEET NO.
CP-ST-08

TOTAL: 255

CAD FILE:
11868-CP-ST-A

DRAWING FILE NO.
4-142-42



NOTE:
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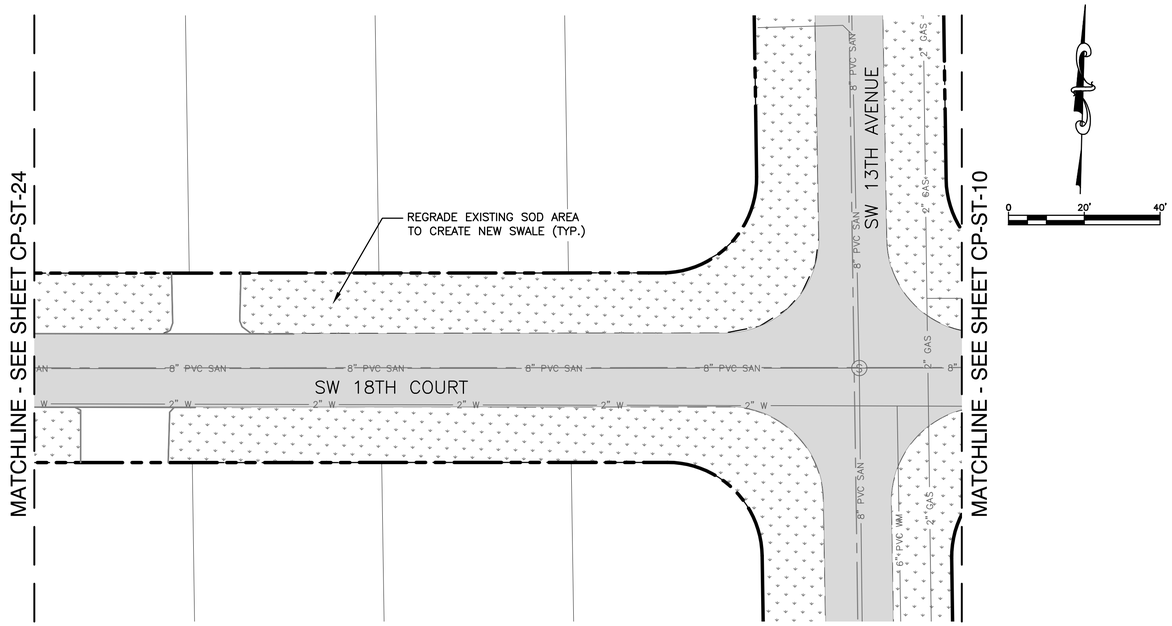

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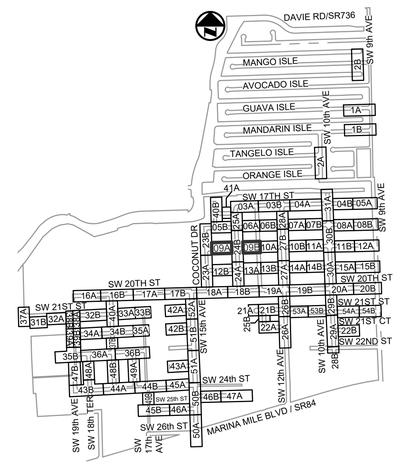

KEY MAP
N.T.S.

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HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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ENGINEER:
PATRICK J. GIBNEY
REG. No. 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

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FIELD BOOK: XXXX

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PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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8/26/2021

CONSTRUCTION SET

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING PLAN

SHEET NO.
CP-ST-09

TOTAL: 255

CAD FILE:
11868-CP-ST-A

DRAWING FILE NO.
4-142-42

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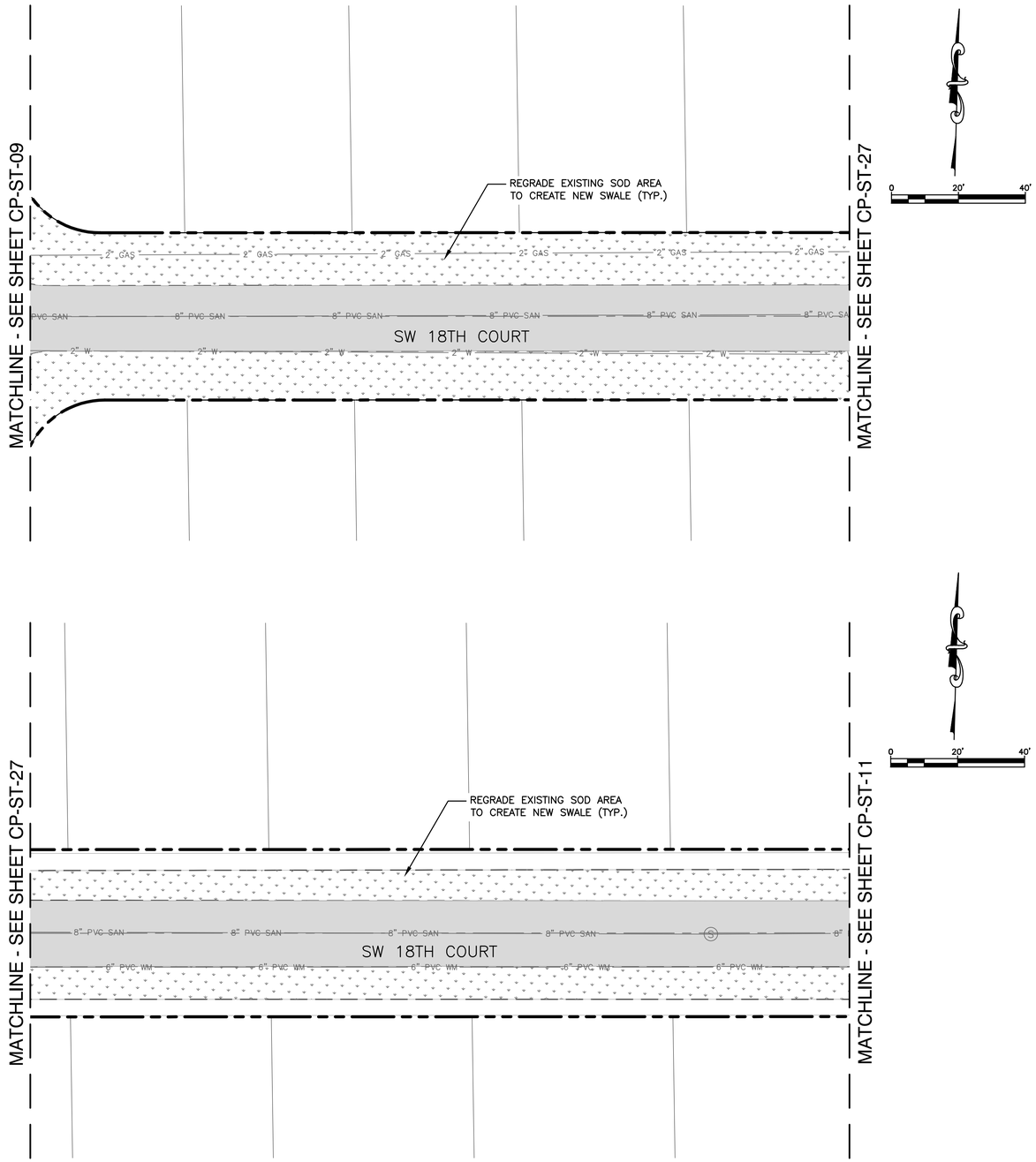

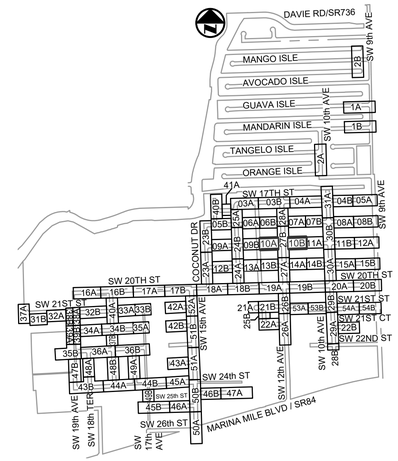

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PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING PLAN

SHEET NO.
CP-ST-10

TOTAL: 255

CAD FILE:
11868-CP-ST-A

DRAWING FILE NO.
4-142-42

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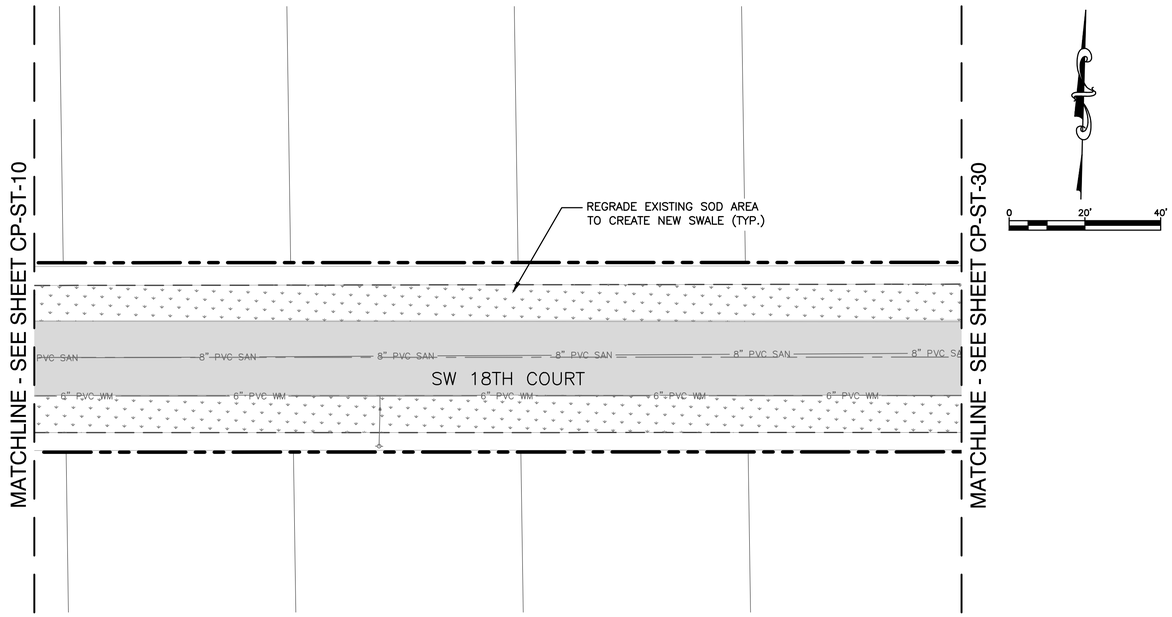

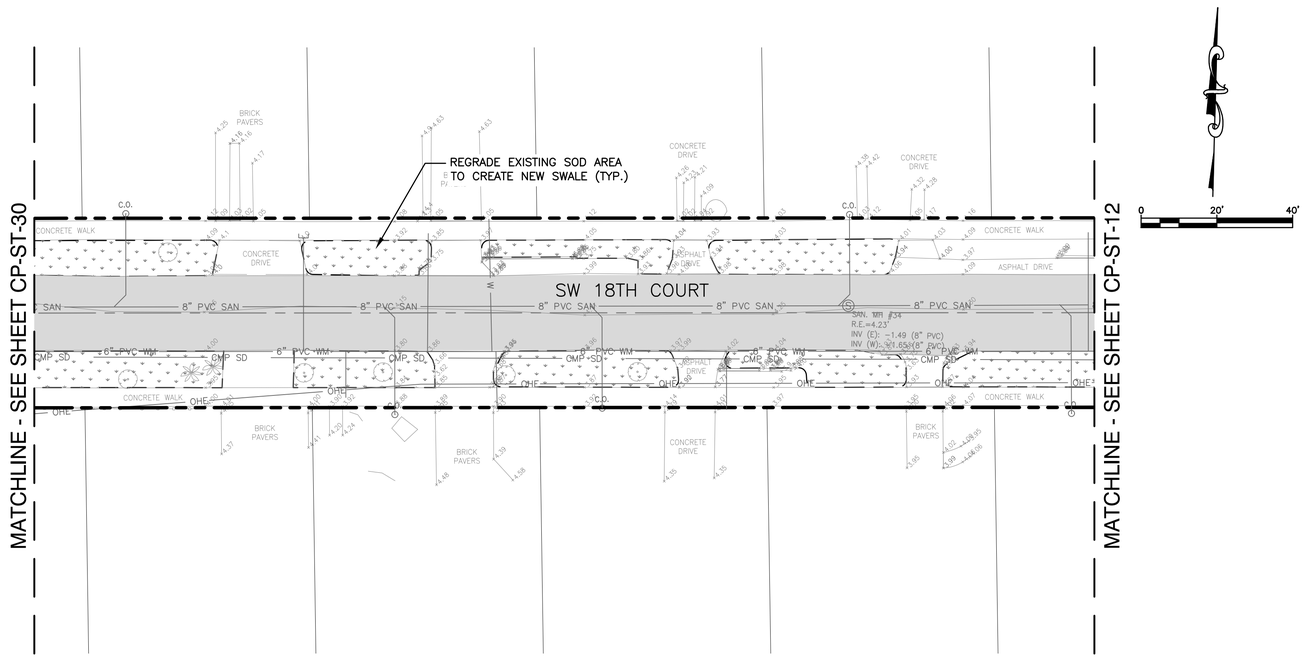

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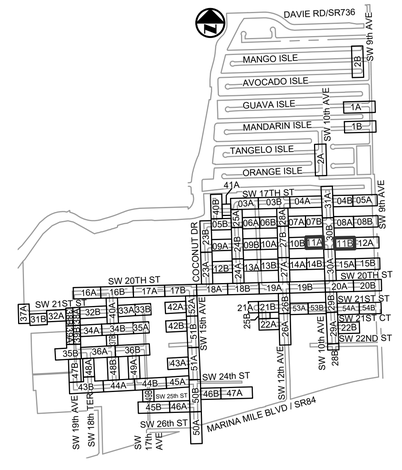

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HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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ENGINEER: PATRICK J. GIBNEY
REG. No.: 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
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PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

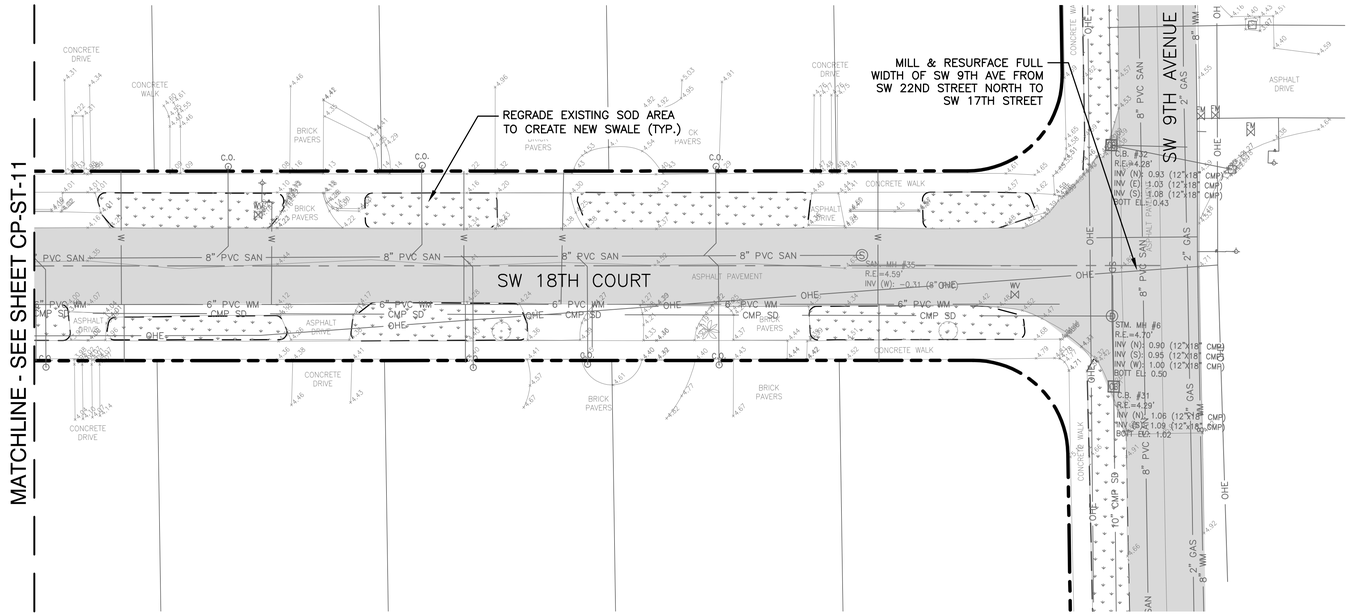
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING PLAN

SHEET NO.
CP-ST-11

TOTAL: 255

CAD FILE:
11868-CP-ST-A

DRAWING FILE NO.
4-142-42



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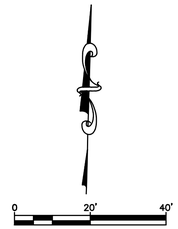

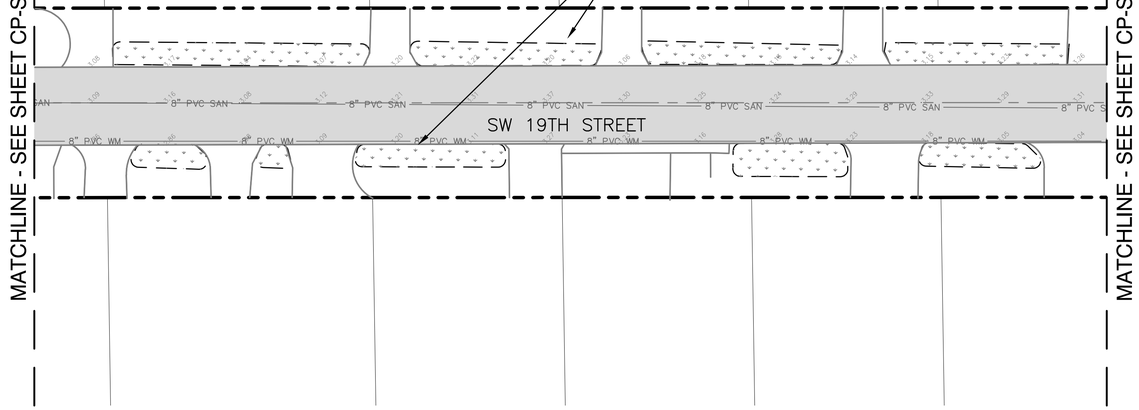

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RIVER OAKS NEIGHBORHOOD
PAVING & GRADING PLAN

SHEET NO.
CP-ST-12

TOTAL: 255

CAD FILE:
11868-CP-ST-A

DRAWING FILE NO.
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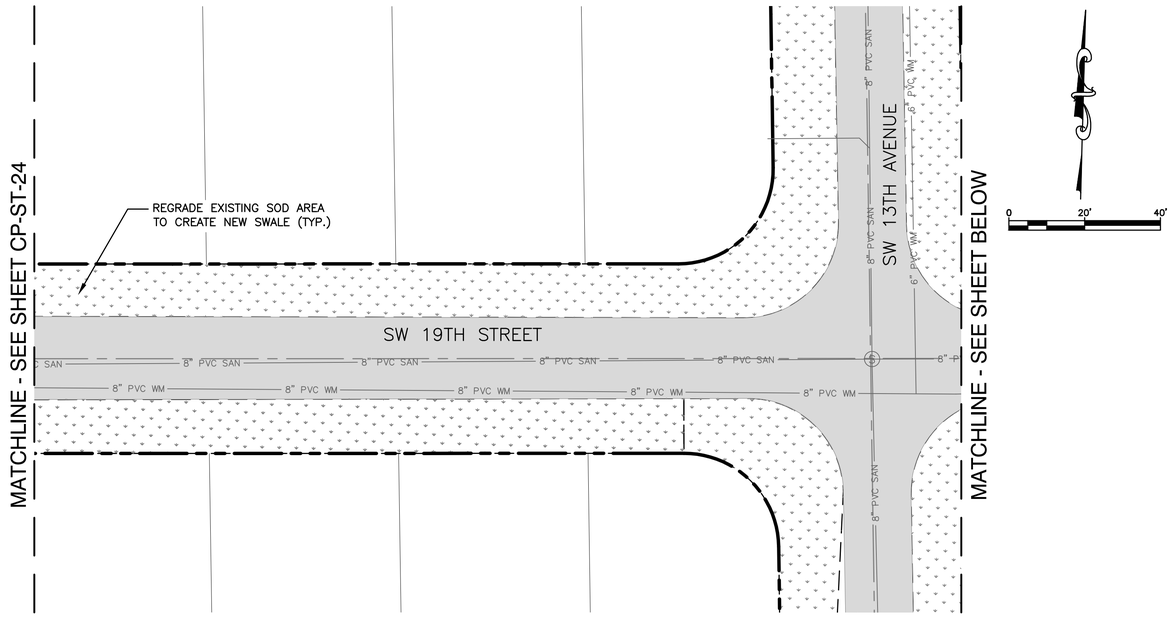

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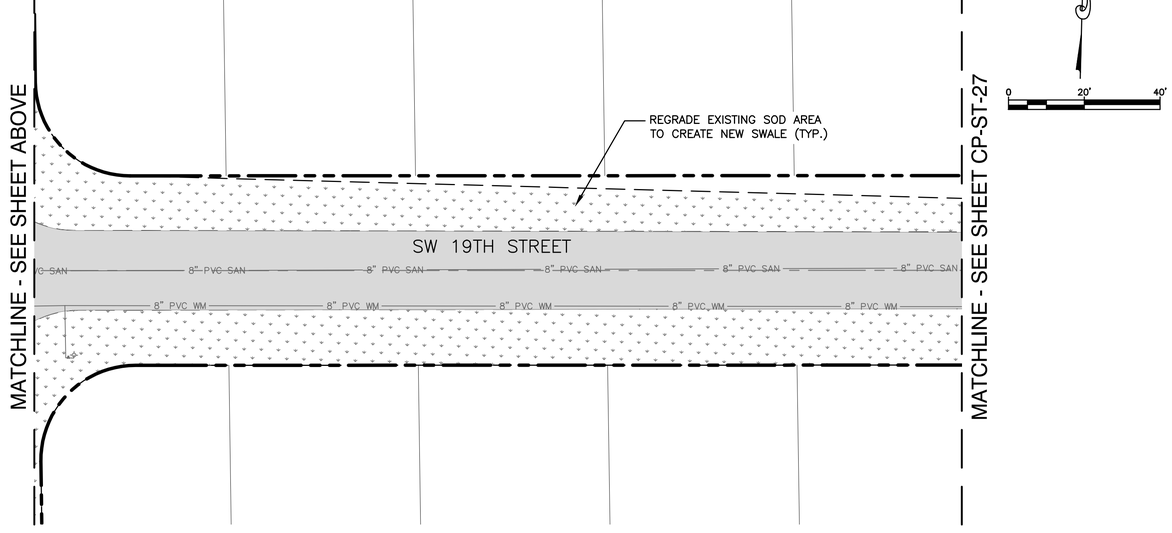

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HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

CRAVEN • THOMPSON AND ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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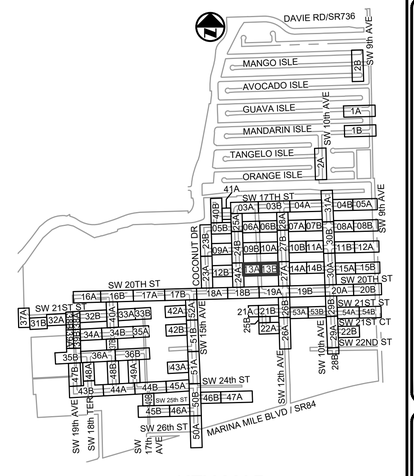


KEY MAP
N.T.S.

Patrick J. Gibney, State of Florida, Professional Engineer, License No. 49428. This item has been electronically signed and sealed by Patrick J. Gibney on the date indicated here using an SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

8/26/2021

CONSTRUCTION SET

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

ENGINEER:
PATRICK J. GIBNEY
REG. No. 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

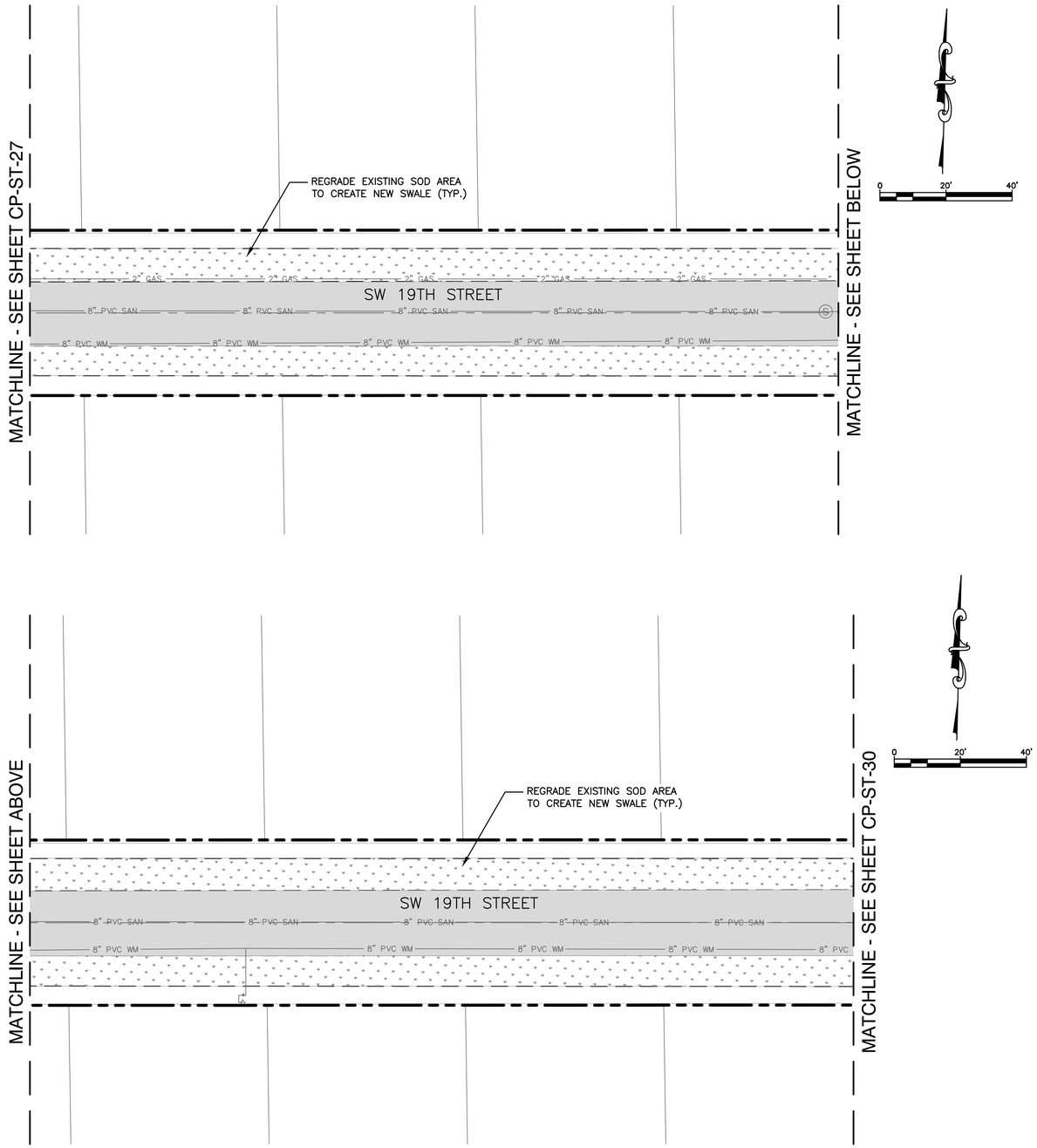
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING PLAN

SHEET NO.
CP-ST-13

TOTAL: 255

CAD FILE:
11868-CP-ST-A

DRAWING FILE NO.
4-142-42



NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).
3. CONTRACTOR SHALL COORDINATE ALL ADJACENT TREE REMOVAL/RELOCATION WITH PROPERTY OWNER. AT OWNER'S DISCRETION CONTRACTOR SHALL MAKE TREE AVAILABLE OR PLAN/RELOCATE AT HOMEOWNER'S REQUEST WITH SIGNED WAIVER TO PLANT WITHIN PRIVATE PROPERTY.
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5. ALL EXISTING CATCH BASIN AND STORM DRAINS LOCATED WITHIN RIGHT-OF-WAY TO REMAIN UNLESS OTHERWISE SHOWN. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD PRIOR OF ANY REMOVAL OF ANY DRAINAGE STRUCTURE AND/OR PIPING BASINS AND STORM DRAINS REMOVED SHALL BE BACKFILLED PER CITY SPECIFICATIONS.
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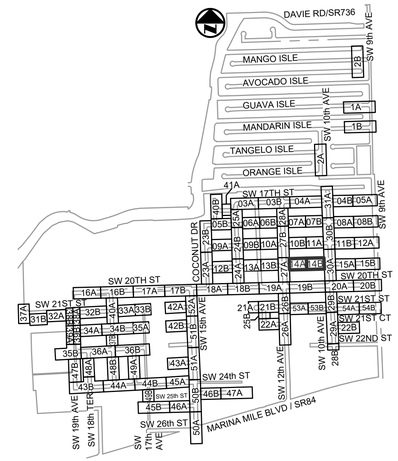
13. ALL NEW ADA CURB RAMPS SHALL INCLUDE DETECTABLE WARNING STRIP PER CITY STD DETAIL-ROAD 013.



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ENGINEER: PATRICK J. GIBNEY
REG. No.: 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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8/26/2021

CONSTRUCTION SET

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING PLAN

SHEET NO.
CP-ST-14

TOTAL: 255

CAD FILE: 11868-CP-ST-A

DRAWING FILE NO. 4-142-42

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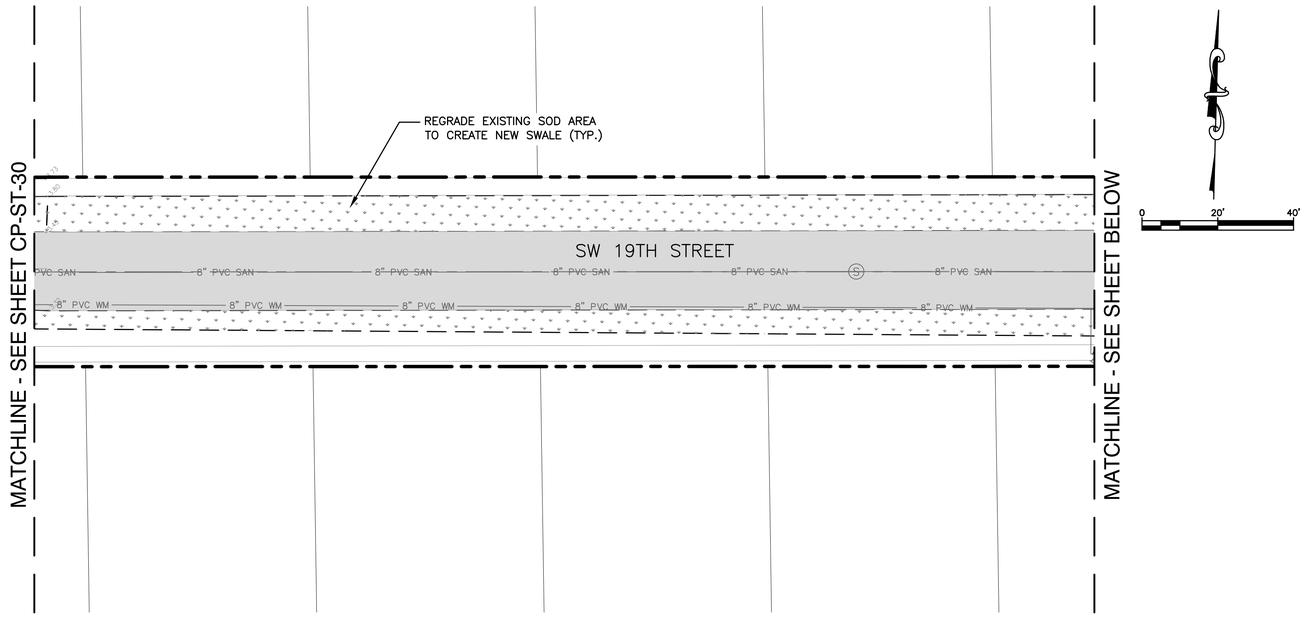

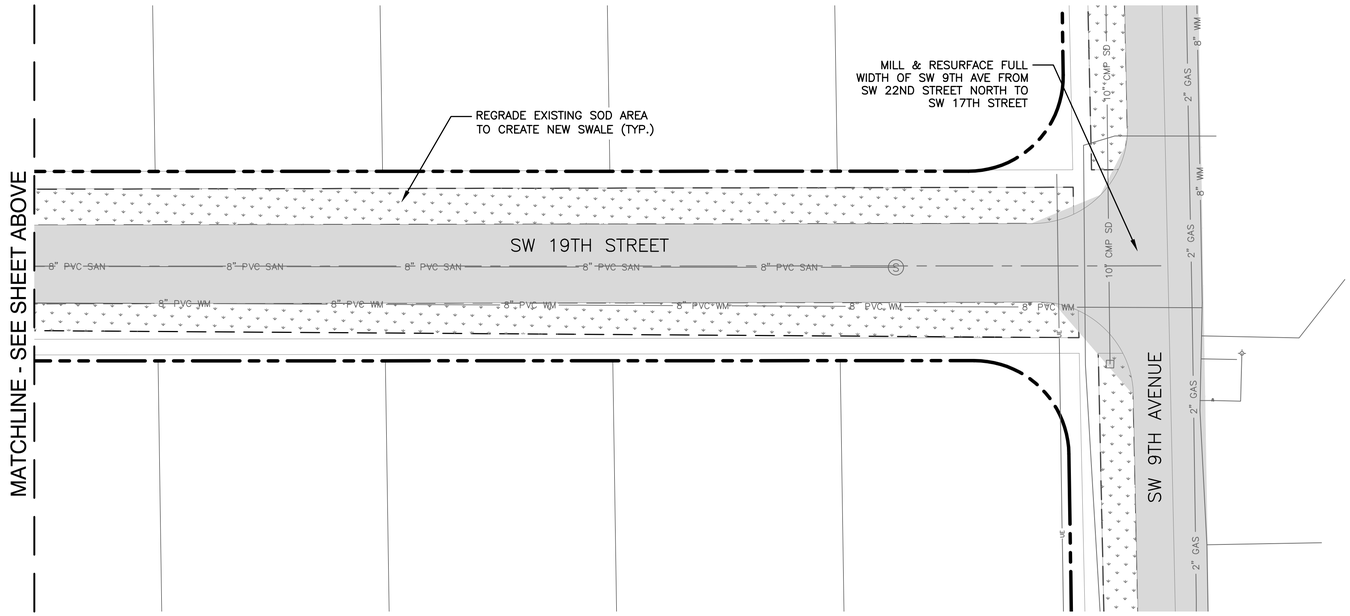

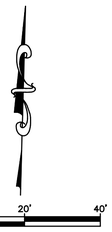

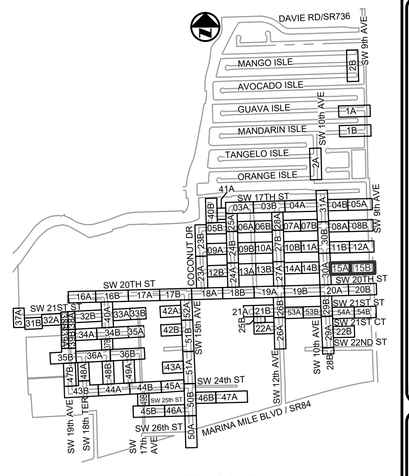

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NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING PLAN

SHEET NO.
CP-ST-15

TOTAL: 255

CAD FILE:
11868-CP-ST-A

DRAWING FILE NO.
4-142-42

AM #22-0047

9/20/2022 9:05 AM

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Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFPROP-APPROVED-27,..\11868TOPO,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFPROP-APPROVED-28,..\11868TOPO,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFPROP-APPROVED-29,..\11868TOPO,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFPROP-APPROVED-30,..\11868TOPO,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFPROP-APPROVED-31,..\11868TOPO,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFPROP-APPROVED-32,..\11868TOPO,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFPROP-APPROVED-33,..\11868TOPO,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master 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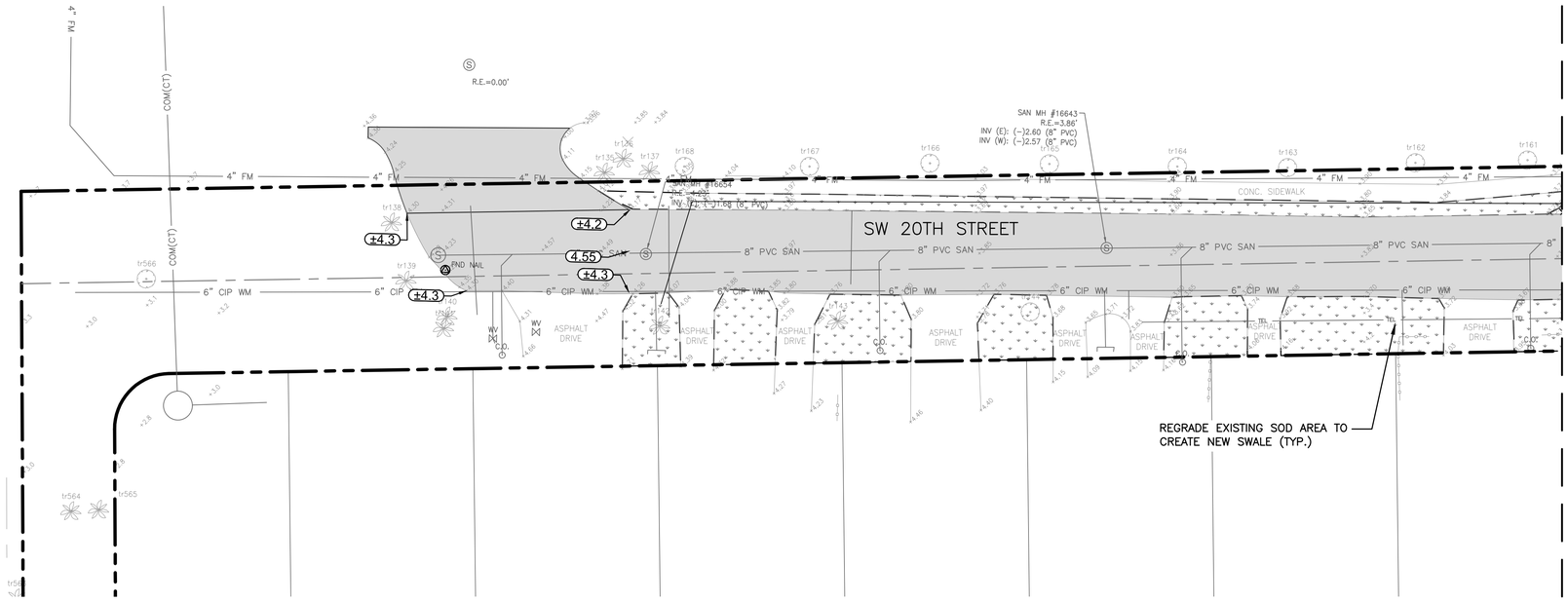

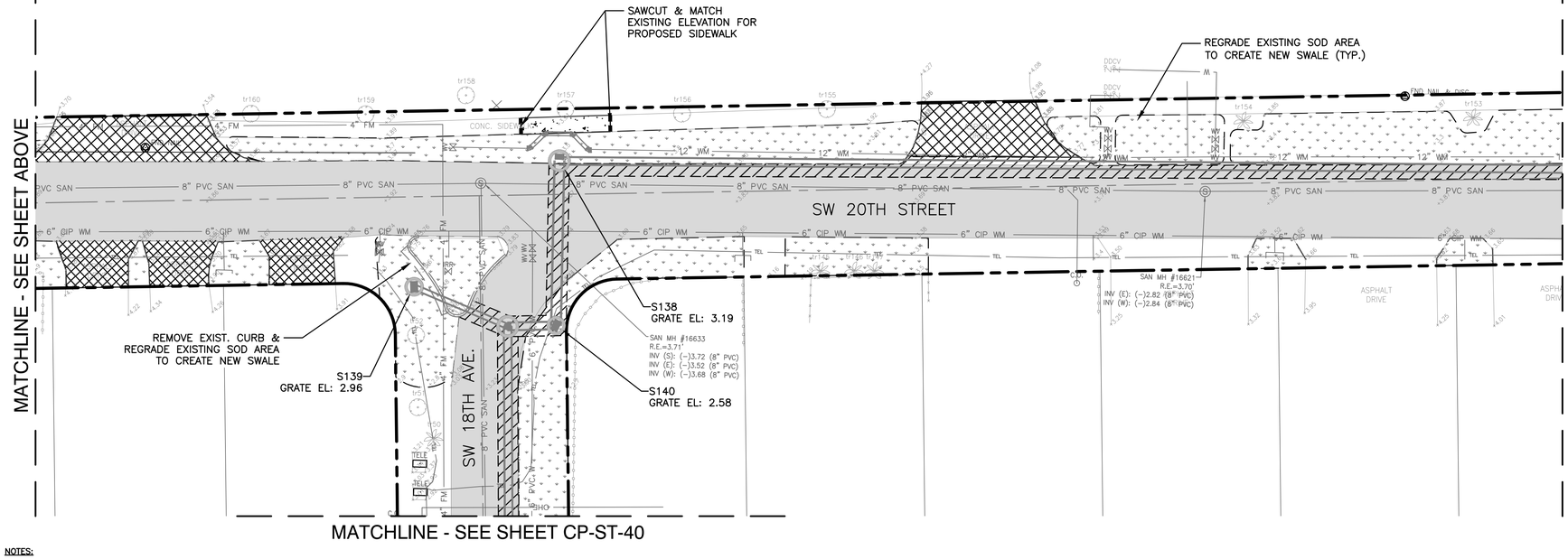

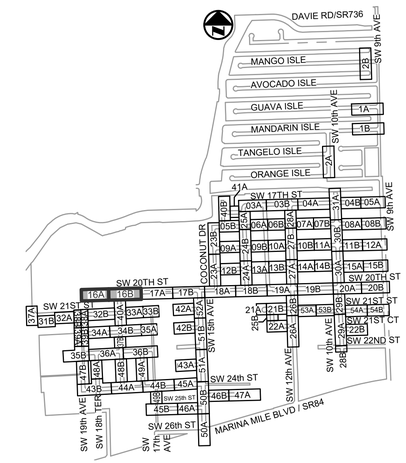

KEY MAP

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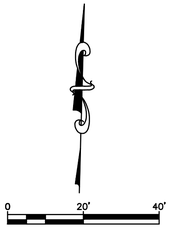

NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).
3. CONTRACTOR SHALL COORDINATE ALL ADJACENT TREE REMOVAL/RELOCATION WITH PROPERTY OWNER. AT OWNER'S DISCRETION CONTRACTOR SHALL MAKE TREE AVAILABLE OR PLAN/RELOCATE AT HOMEOWNER'S REQUEST WITH SIGNED WAIVER TO PLANT WITHIN PRIVATE PROPERTY.
4. ALL EXISTING UTILITIES MAY NOT BE SHOWN ON THIS PLAN. REFER TO EXISTING CONDITIONS PLANS FOR TYPE AND LOCATION OF EXISTING UTILITIES.
5. ALL EXISTING CATCH BASIN AND STORM DRAINS LOCATED WITHIN RIGHT-OF-WAY TO REMAIN UNLESS OTHERWISE SHOWN. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD PRIOR OF ANY REMOVAL OF ANY DRAINAGE STRUCTURE AND/OR PIPING BASINS AND STORM DRAINS REMOVED SHALL BE BACKFILLED PER CITY SPECIFICATIONS.
6. EXISTING CATCH BASINS LOCATED WITHIN RIGHT-OF-WAY MAY BE CONNECTED TO ADJACENT PROPERTY ROOF DRAINS. IF THIS SITUATION IS DISCOVERED DURING CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AND THE CONTRACTOR SHALL NOT REMOVE ANY PIPE OR CATCH BASINS UNLESS AUTHORIZED TO DO BY THE ENGINEER OF RECORD.
7. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY RELOCATION/COORDINATION OF EXISTING UTILITIES (WATER/SEWER) AS REQUIRED TO FACILITATE PROPOSED INFRASTRUCTURE.
8. ONCE ABANDONED, WATER MAIN CAN BE CUT AND REMOVED TO CONSTRUCT PROPOSED DRAINAGE. PLUG EXPOSED ENDS TO REMAIN.
9. EXISTING WATER MAIN/FORCE MAIN TO BE REMOVED AND REPLACED, AND NEW MAIN TO BE TESTED, APPROVED AND SERVICES CONNECTED PRIOR TO CONSTRUCTION OF STORM DRAINAGE.
10. ALL EXISTING DRAINAGE STRUCTURES TO REMAIN MAY REQUIRE ADJUSTMENT OF FRAME AND GRATE TO MEET PROPOSED GRADES.
11. CRACKED SIDEWALK FLAGS TO BE REMOVED EVEN IN AREAS NOTED TO REMAIN.
12. ALL EXISTING AND PROPOSED DRAINAGE STRUCTURES THAT ARE LOCATED IN A SWALE WITH AN OPEN GRATE SHALL BE PROVIDED WITH AN CONCRETE APRON.
13. ALL NEW ADA CURB RAMPS SHALL INCLUDE DETECTABLE WARNING STRIP PER CITY STD DETAIL-ROAD 013.

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

Patrick J. Gibney, State of Florida, Professional Engineer, License No. 49428. This item has been electronically signed and sealed by Patrick J. Gibney on the date indicated here using an SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

8/26/2021

CONSTRUCTION SET

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021
Certificate of Authorization No: 2771

CRAVEN • THOMPSON AND ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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ENGINEER: PATRICK J. GIBNEY
REG. No.: 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

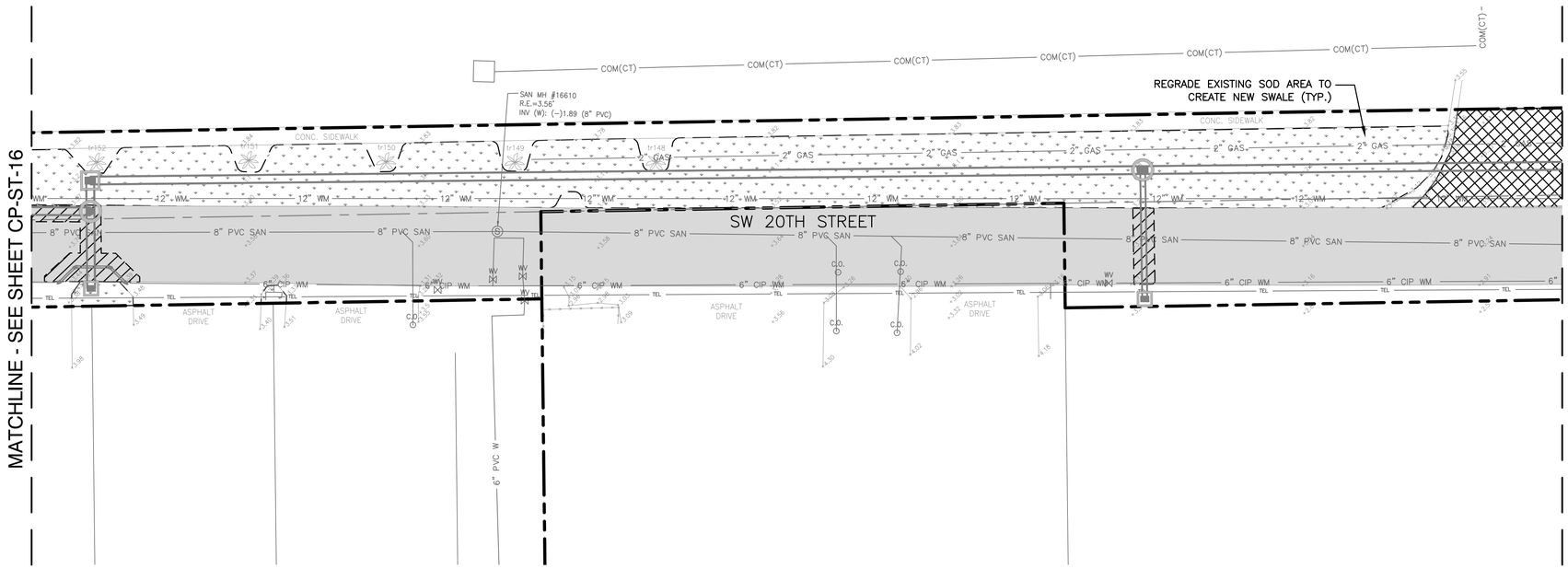
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING PLAN

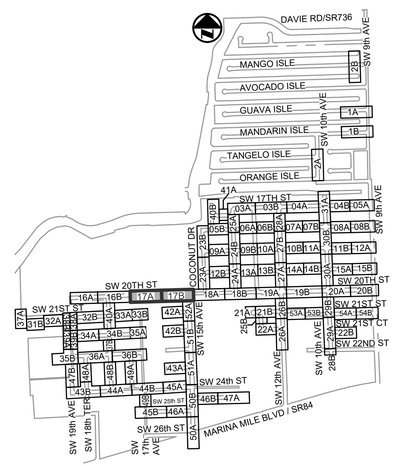
SHEET NO.
CP-ST-16

TOTAL: 255

CAD FILE:
11868-CP-ST-A

DRAWING FILE NO.
4-142-42





KEY MAP

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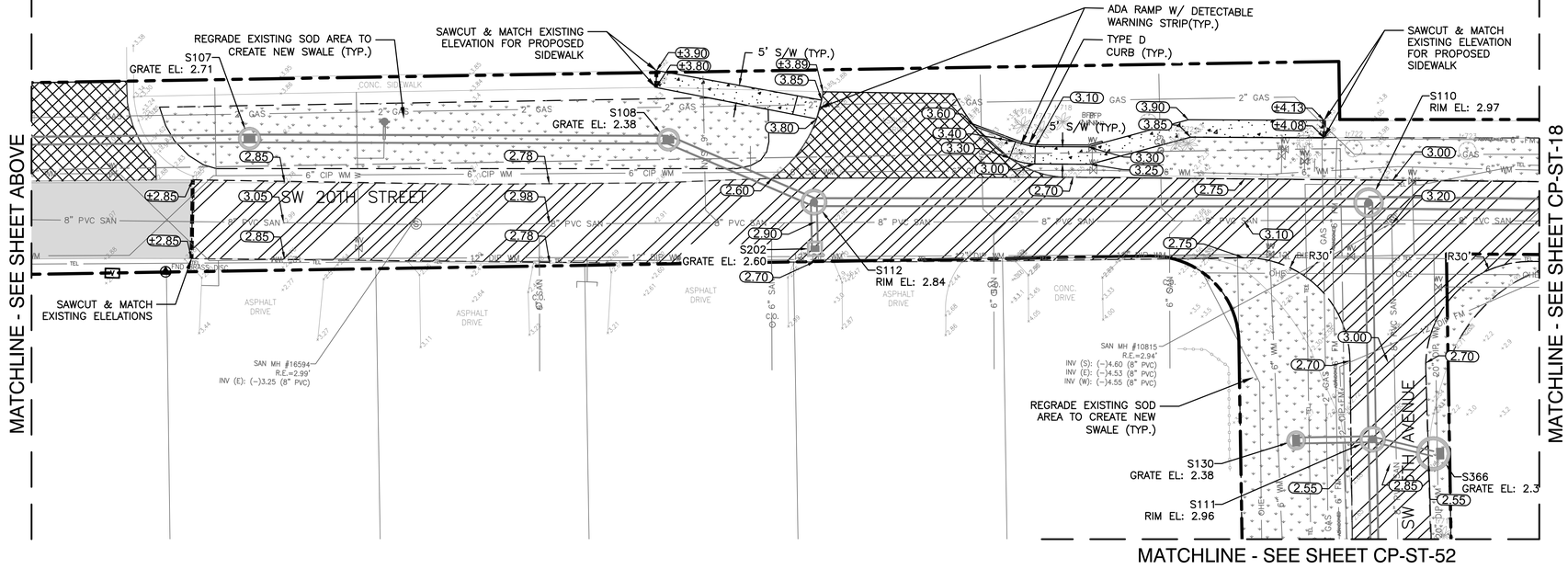

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4. ALL EXISTING UTILITIES MAY NOT BE SHOWN ON THIS PLAN. REFER TO EXISTING CONDITIONS PLANS FOR TYPE AND LOCATION OF EXISTING UTILITIES.
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6. EXISTING CATCH BASINS LOCATED WITHIN RIGHT–OF–WAY MAY BE CONNECTED TO ADJACENT PROPERTY ROOF DRAINS. IF THIS SITUATION IS DISCOVERED DURING CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AND THE CONTRACTOR SHALL NOT REMOVE ANY PIPE OR CATCH BASINS UNLESS AUTHORIZED TO DO BY THE ENGINEER OF RECORD.
7. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY RELOCATION/COORDINATION OF EXISTING UTILITIES (WATER/SEWER) AS REQUIRED TO FACILITATE PROPOSED INFRASTRUCTURE.
8. ONCE ABANDONED, WATER MAIN CAN BE CUT AND REMOVED TO CONSTRUCT PROPOSED DRAINAGE. PLUG EXPOSED ENDS TO REMAIN.
9. EXISTING WATER MAIN/FORCE MAIN TO BE REMOVED AND REPLACED, AND NEW MAIN TO BE TESTED, APPROVED AND SERVICES CONNECTED PRIOR TO CONSTRUCTION OF STORM DRAINAGE.
10. ALL EXISTING DRAINAGE STRUCTURES TO REMAIN MAY REQUIRE ADJUSTMENT OF FRAME AND GRATE TO MEET PROPOSED GRADES.
11. CRACKED SIDEWALK FLAGS TO BE REMOVED EVEN IN AREAS NOTED TO REMAIN.
12. ALL EXISTING AND PROPOSED DRAINAGE STRUCTURES THAT ARE LOCATED IN A SWALE WITH AN OPEN GRATE SHALL BE PROVIDED WITH AN CONCRETE APRON.
13. ALL NEW ADA CURB RAMPS SHALL INCLUDE DETECTABLE WARNING STRIP PER CITY STD DETAIL–ROAD 013.

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

CONSTRUCTION SET

Patrick J. Gibney, State of Florida, Professional Engineer, License No. 49428 This item has been electronically signed and sealed by Patrick J. Gibney on the date indicated here using an SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

8/26/2021

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

CRAVEN • THOMPSON AND ASSOCIATES, INC.
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3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
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FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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ENGINEER:
PATRICK J. GIBNEY
REG. No. 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING PLAN

SHEET NO.
CP-ST-17

TOTAL: 255

CAD FILE:
11868–CP–ST–A

DRAWING FILE NO.
4–142–42

CAM #22-0847
Exhibit 1C p. 1591
Page 75 of 85

PLOT DATE: 8/26/2021 12:06 PM BY: ASCHEFFER XREFs= .\11868SURV,.\11868topo,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFNOTES,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFUTIL,.\11868TOPO,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master 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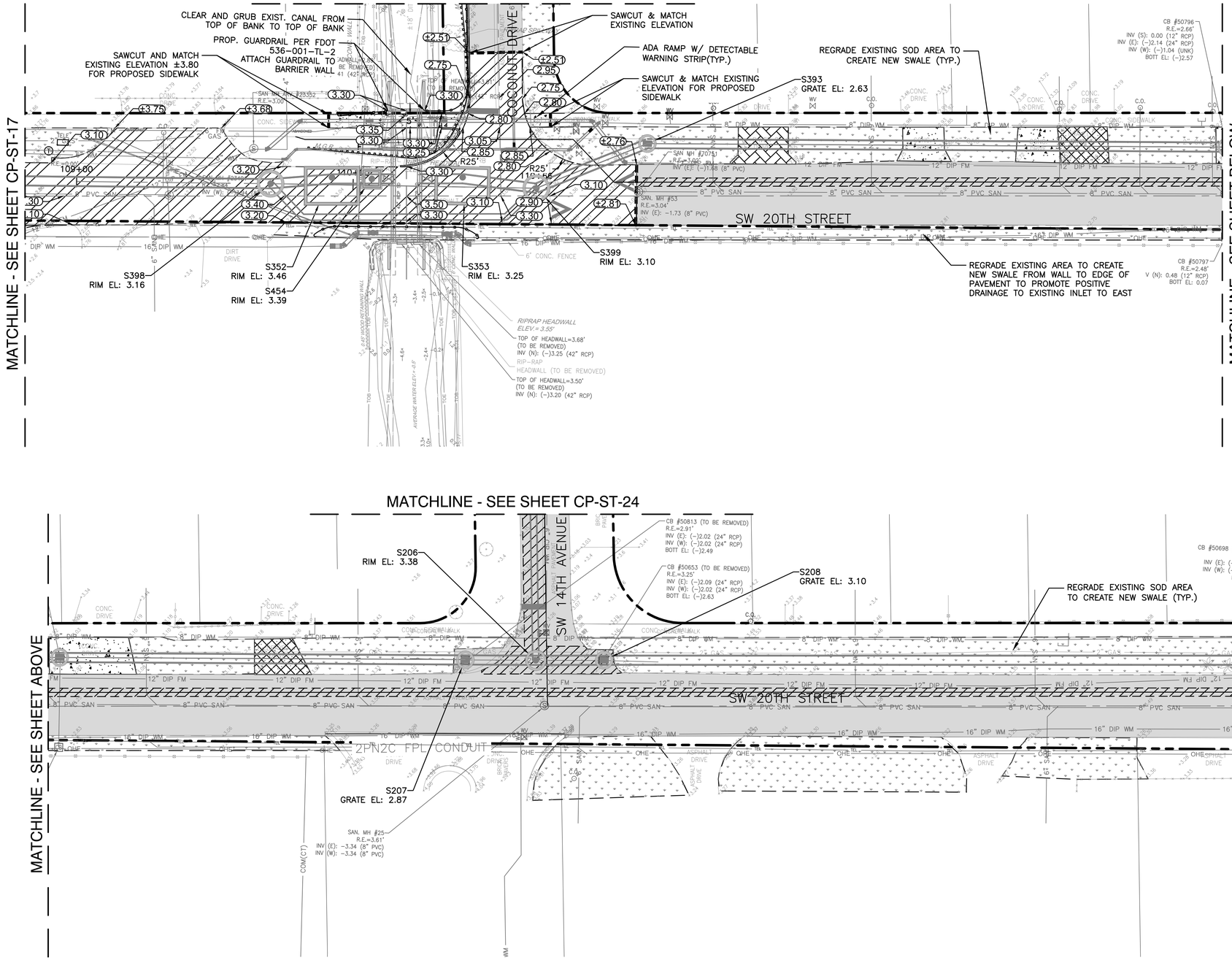

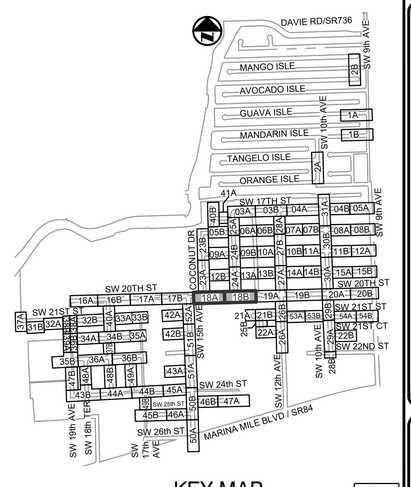

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FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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ENGINEER: PATRICK J. GIBNEY
REG. NO.: 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

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8/26/2021

CONSTRUCTION SET

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING PLAN

SHEET NO.
CP-ST-18

TOTAL: 255

CAD FILE: 11868-CP-ST-A

DRAWING FILE NO. 4-142-42

NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).
3. CONTRACTOR SHALL COORDINATE ALL ADJACENT TREE REMOVAL/RELOCATION WITH PROPERTY OWNER. AT OWNER'S DISCRETION CONTRACTOR SHALL MAKE TREE AVAILABLE OR PLAN/RELOCATE AT HOMEOWNER'S REQUEST WITH SIGNED WAIVER TO PLANT WITHIN PRIVATE PROPERTY.
4. ALL EXISTING UTILITIES MAY NOT BE SHOWN ON THIS PLAN. REFER TO EXISTING CONDITIONS PLANS FOR TYPE AND LOCATION OF EXISTING UTILITIES.
5. ALL EXISTING CATCH BASIN AND STORM DRAINS LOCATED WITHIN RIGHT-OF-WAY TO REMAIN UNLESS OTHERWISE SHOWN. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD PRIOR OF ANY REMOVAL OF ANY DRAINAGE STRUCTURE AND/OR PIPING BASINS AND STORM DRAINS REMOVED SHALL BE BACKFILLED PER CITY SPECIFICATIONS.
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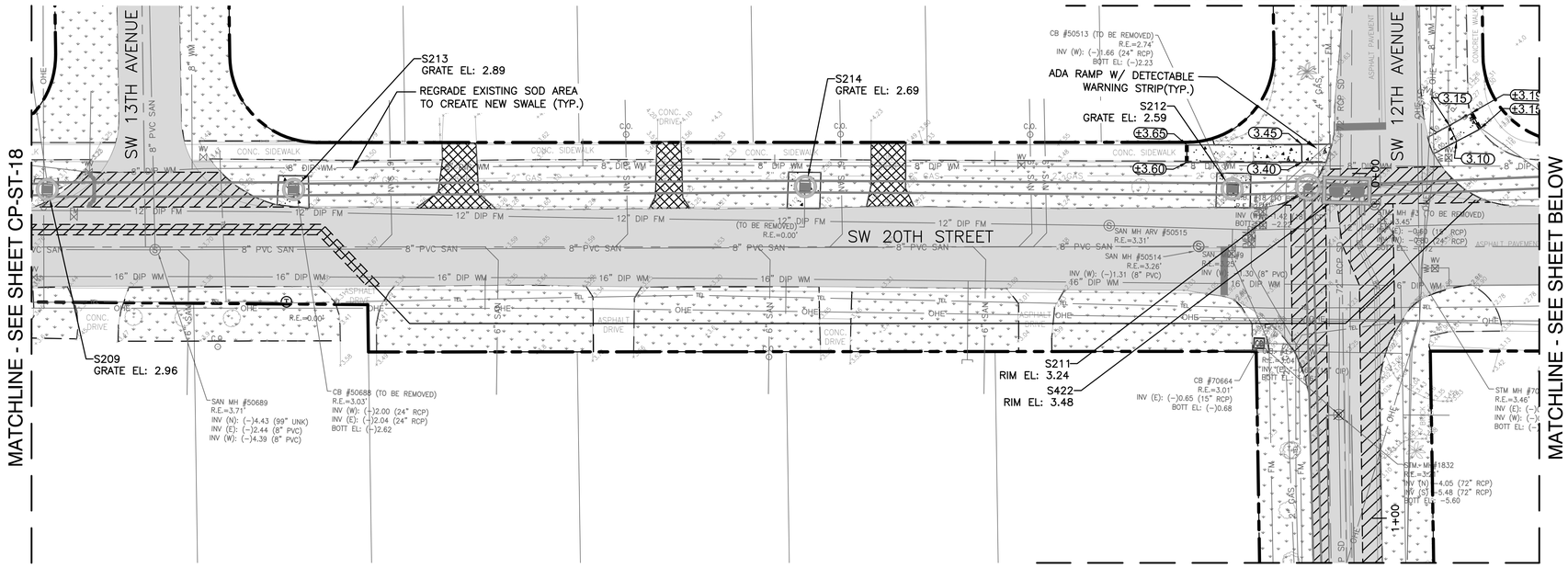
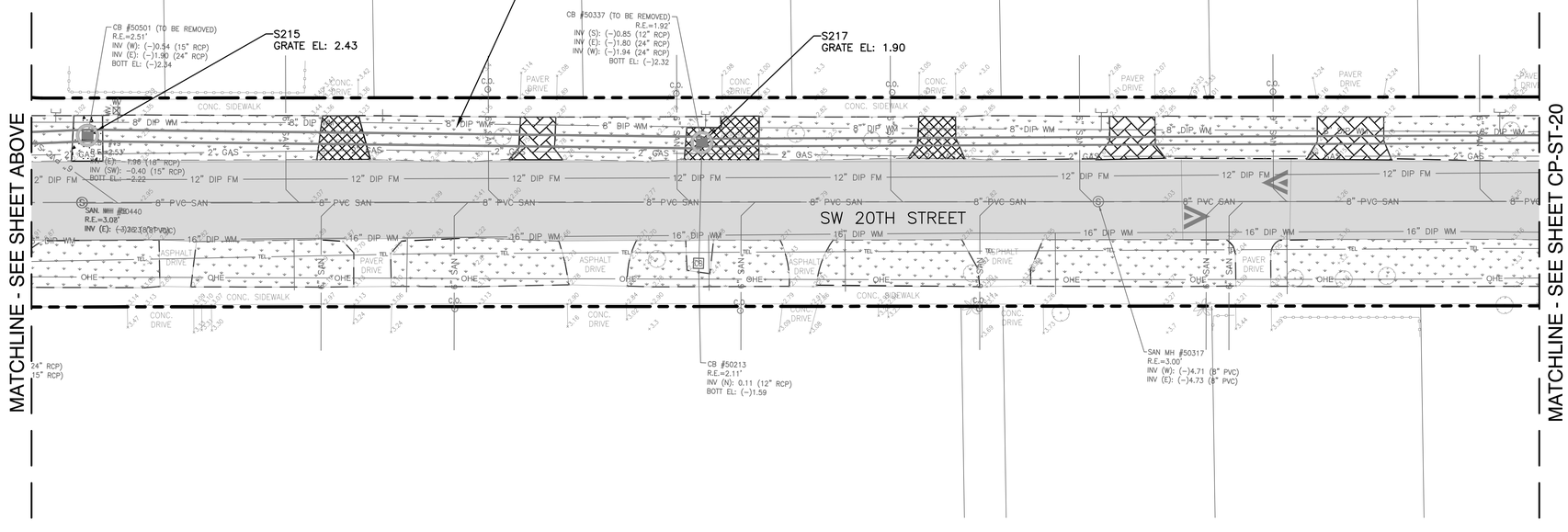
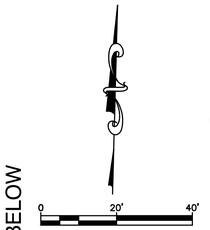
Sunshine811.com



NOTE:
1. SW 13TH AVENUE SHALL BE MILLED AND RESURFACED FROM SW 20TH STREET NORTH TO SW 17TH STREET.
2. CONTRACTOR SHALL PROVIDE SWALES IN ACCORDANCE WITH SWALE DETAILS ALONG BOTH SIDES OF SW 13TH AVENUE FROM SW 20TH STREET NORTH TO SW 17TH STREET.





0 20' 40'

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

CRAVEN • THOMPSON AND ASSOCIATES, INC.
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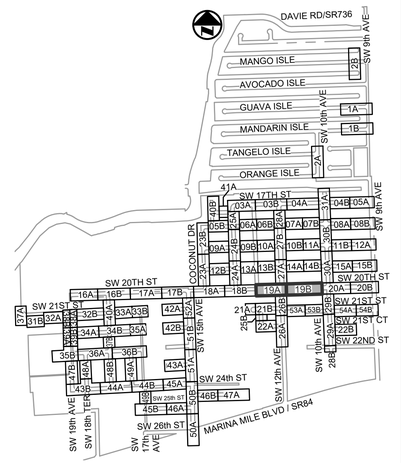
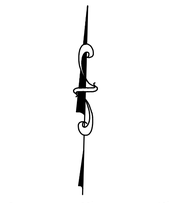


KEY MAP
N.T.S.



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8/26/2021

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PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING PLAN

SHEET NO.
CP-ST-19

TOTAL: 255

CAD FILE:
11868-CP-ST-A

DRAWING FILE NO.
4-142-42

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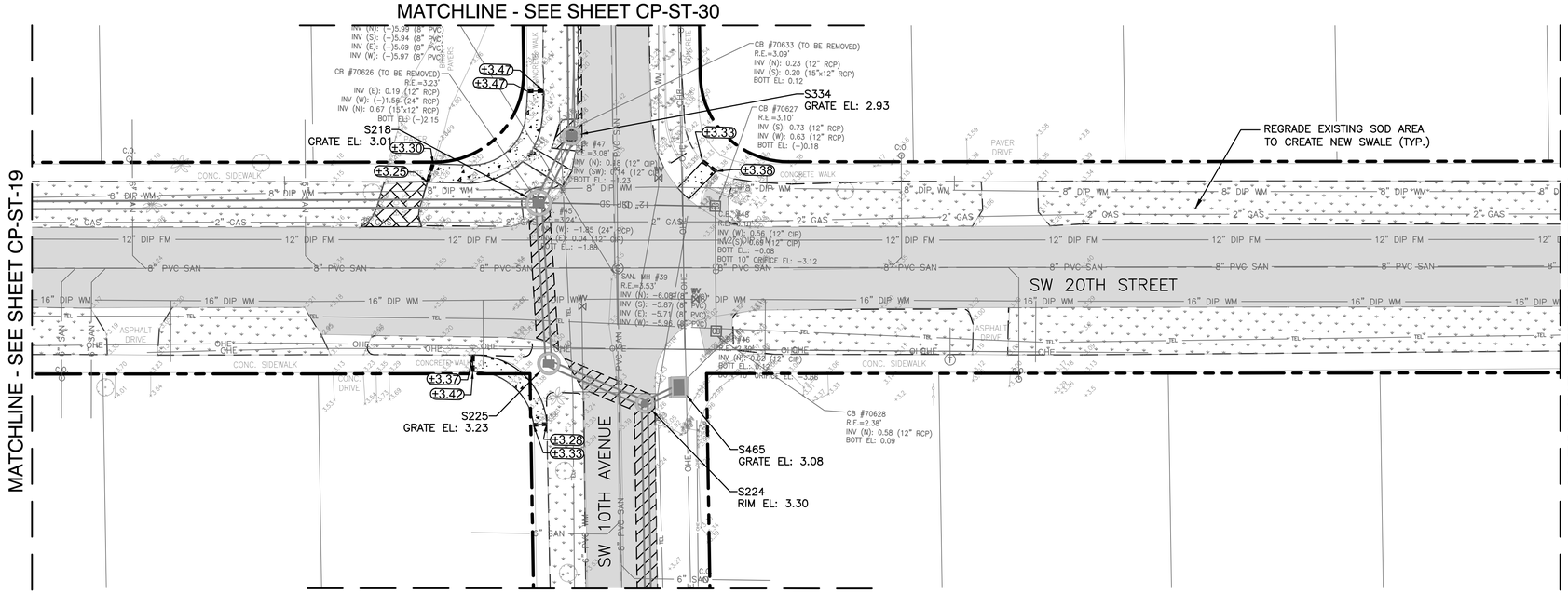

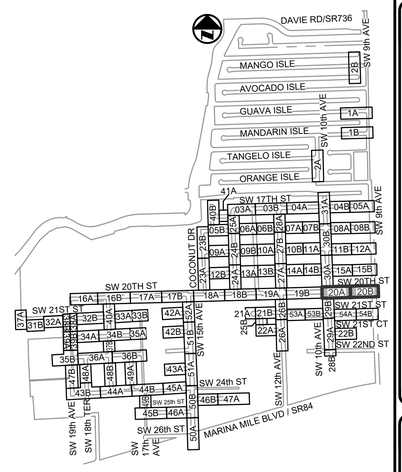

KEY MAP

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HOLLYWOOD, FLORIDA 33021

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ENGINEER:
PATRICK J. GIBNEY
FLA. NO. 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-9940

DRAWN BY:	DATE:
XXX	01/07/2019
DESIGNED BY:	SCALE:
XXX	1"=20'
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XXX	XXXX

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100 North Andrews Avenue, Fort Lauderdale, Florida 33301

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8/26/202

CONSTRUCTION SET

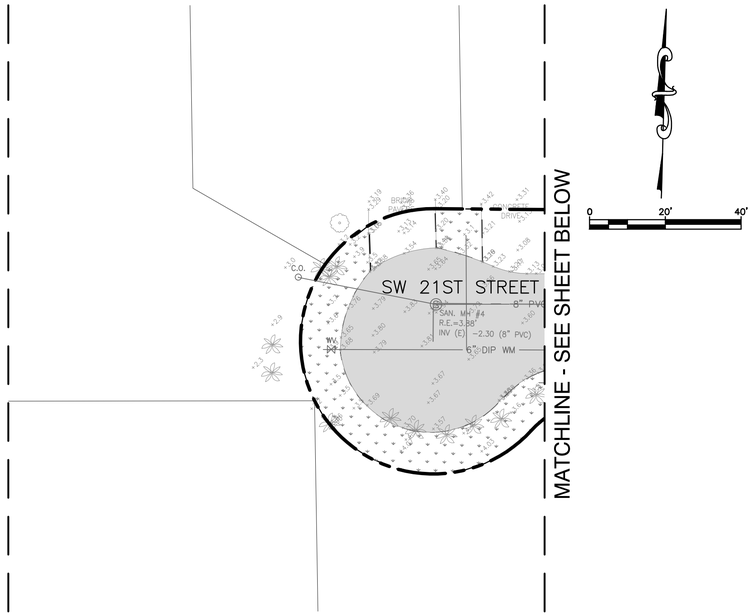
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING PLAN

SHEET NO.
CP-ST-20

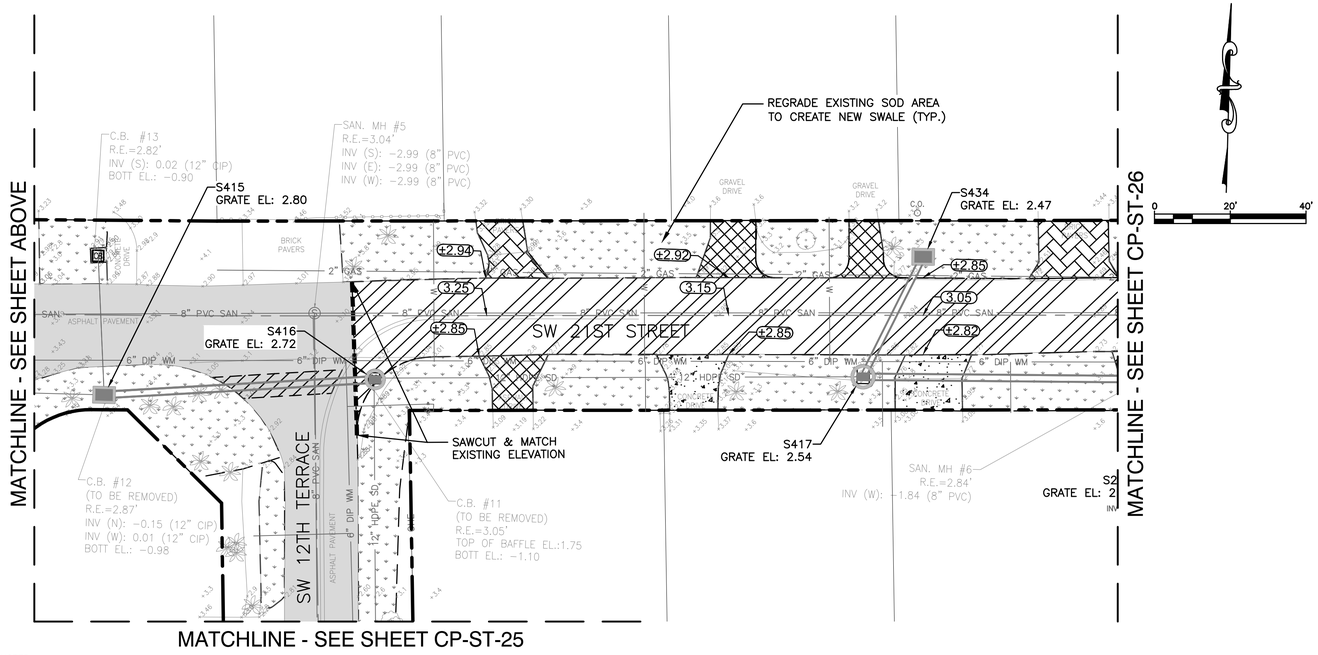
TOTAL: 255

CAD FILE:
11868–CP–ST–A

DRAWING FILE NO.
4–142–42



NOTE:
1. SW 21ST STREET FROM FROM SW 12TH AVENUE TO 9TH AVENUE SHALL BE MILLED AND RESURFACED.
2. CONTRACTOR SHALL PROVIDE SWALES IN ACCORDANCE WITH SWALE DETAILS ALONG BOTH SIDES OF SW 21ST STREET.



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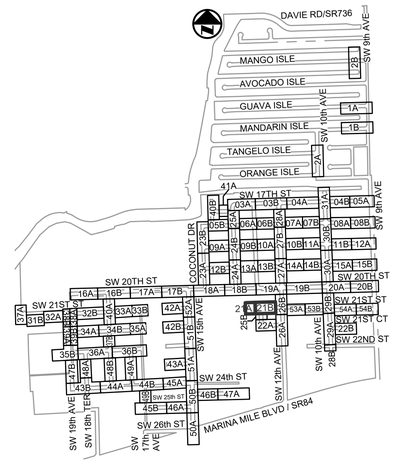

KEY MAP
N.T.S.

Hazen

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4000 HOLLYWOOD BLVD, SUITE 750N
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STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING PLAN

SHEET NO.
CP-ST-21

TOTAL: 255

CAD FILE: 11868-CP-ST-A

DRAWING FILE NO. 4-142-42

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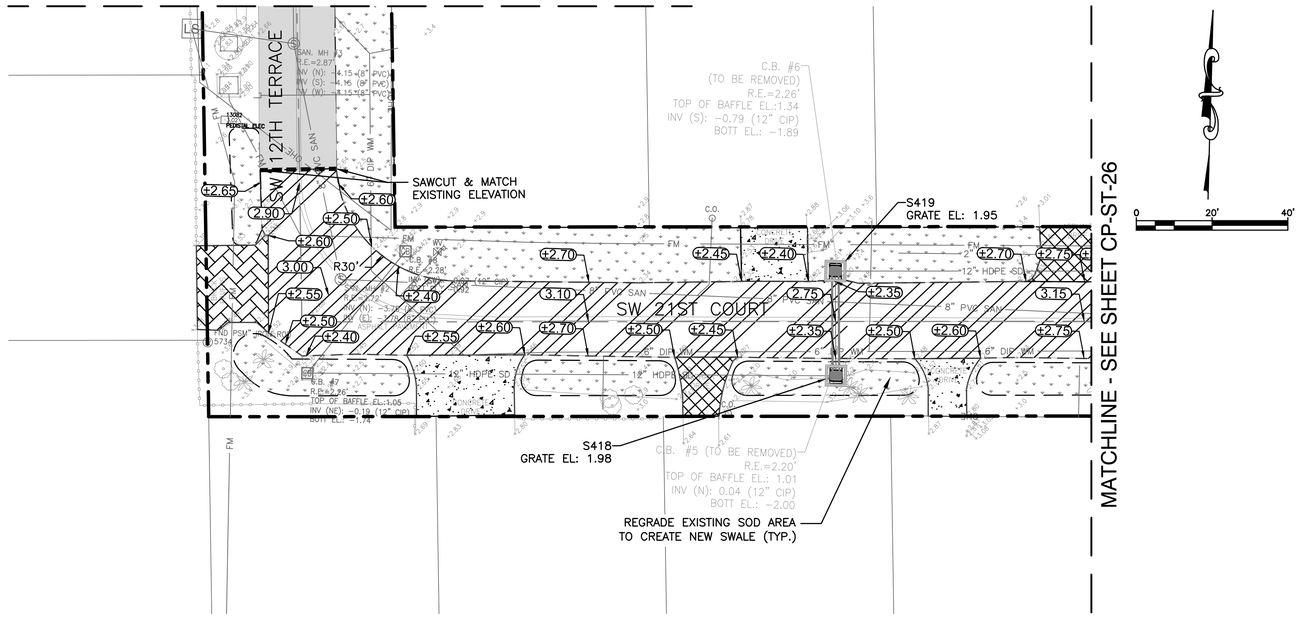

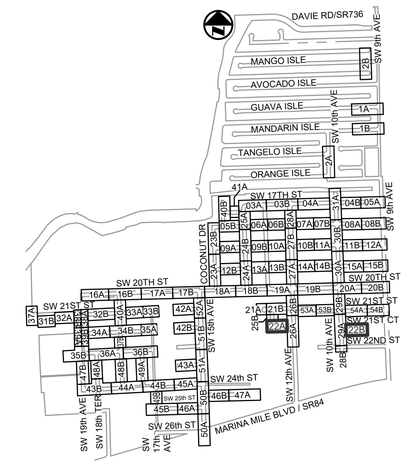

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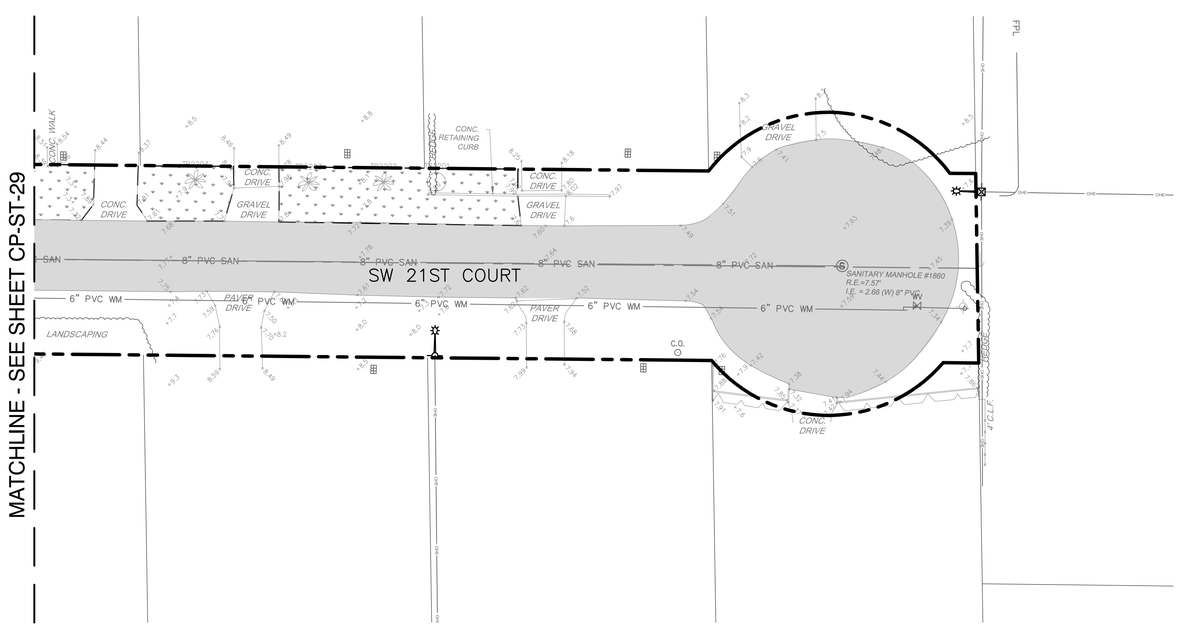

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ENGINEERS • PLANNERS • SURVEYORS
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FAX: (954) 739-6409 TEL: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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ENGINEER: PATRICK J. GIBNEY
REG. No.: 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

Patrick J. Gibney, State of Florida, Professional Engineer, License No. 49428. This item has been electronically signed and sealed by Patrick J. Gibney on the date indicated here using an SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

8/26/2021

CONSTRUCTION SET

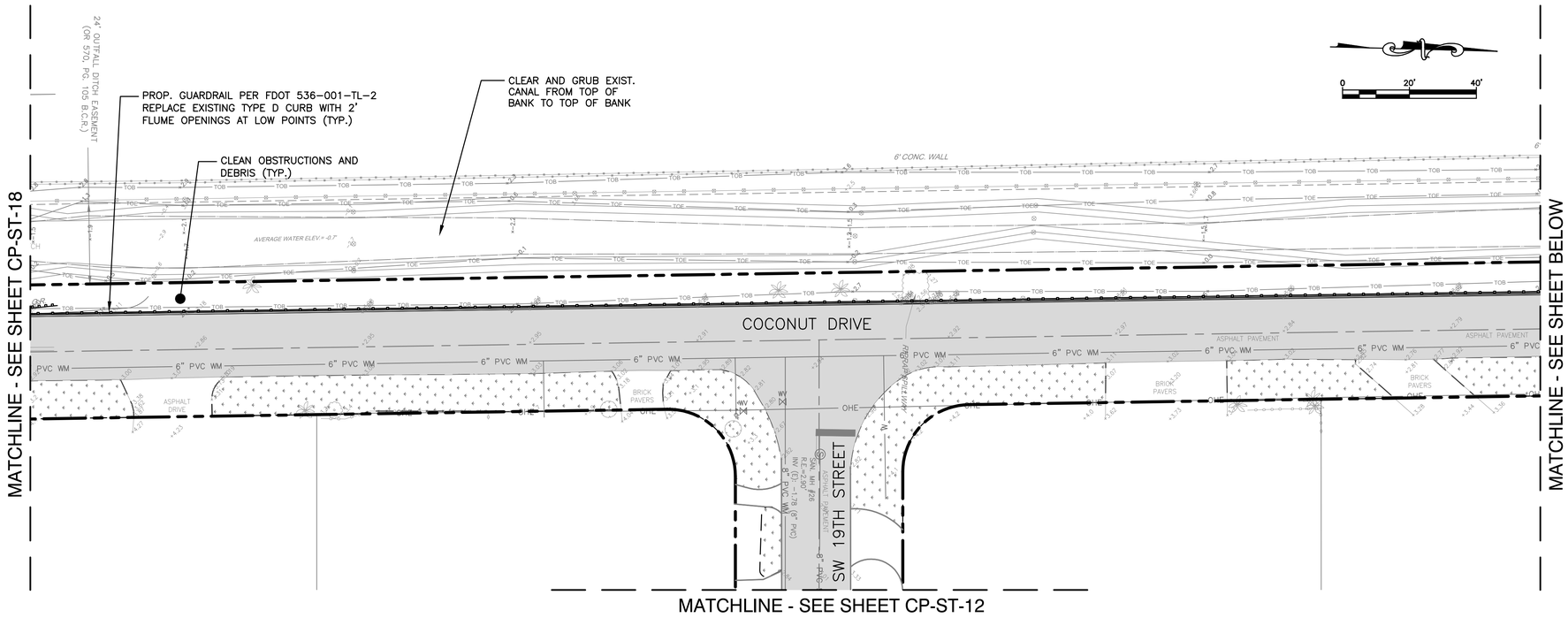
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING PLAN

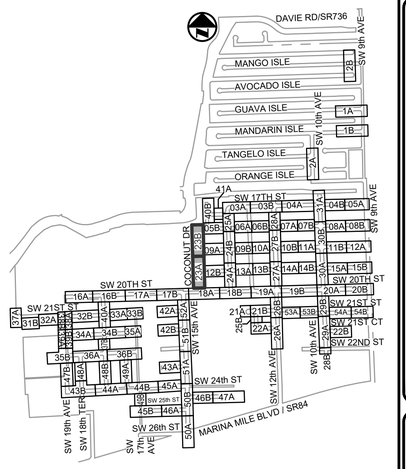
SHEET NO.
CP-ST-22

TOTAL: 255

CAD FILE: 11868-CP-ST-A

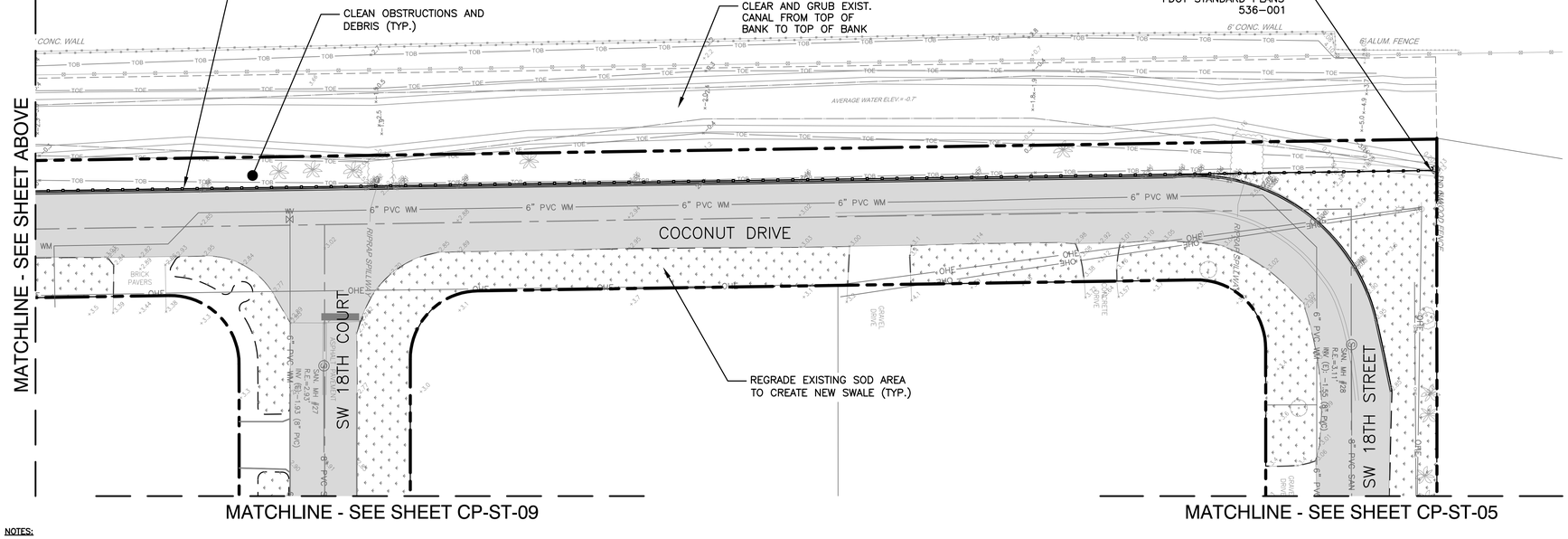
DRAWING FILE NO. 4-142-42





KEY MAP

N.T.S.



NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).
3. CONTRACTOR SHALL COORDINATE ALL ADJACENT TREE REMOVAL/RELOCATION WITH PROPERTY OWNER. AT OWNER'S DISCRETION CONTRACTOR SHALL MAKE TREE AVAILABLE OR PLAN/RELOCATE AT HOMEOWNER'S REQUEST WITH SIGNED WAIVER TO PLANT WITHIN PRIVATE PROPERTY.
4. ALL EXISTING UTILITIES MAY NOT BE SHOWN ON THIS PLAN. REFER TO EXISTING CONDITIONS PLANS FOR TYPE AND LOCATION OF EXISTING UTILITIES.
5. ALL EXISTING CATCH BASIN AND STORM DRAINS LOCATED WITHIN RIGHT-OF-WAY TO REMAIN UNLESS OTHERWISE SHOWN. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD PRIOR OF ANY REMOVAL OF ANY DRAINAGE STRUCTURE AND/OR PIPING BASINS AND STORM DRAINS REMOVED SHALL BE BACKFILLED PER CITY SPECIFICATIONS.
6. EXISTING CATCH BASINS LOCATED WITHIN RIGHT-OF-WAY MAY BE CONNECTED TO ADJACENT PROPERTY ROOF DRAINS. IF THIS SITUATION IS DISCOVERED DURING CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AND THE CONTRACTOR SHALL NOT REMOVE ANY PIPE OR CATCH BASINS UNLESS AUTHORIZED TO DO BY THE ENGINEER OF RECORD.
7. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY RELOCATION/COORDINATION OF EXISTING UTILITIES (WATER/SEWER) AS REQUIRED TO FACILITATE PROPOSED INFRASTRUCTURE.
8. ONCE ABANDONED, WATER MAIN CAN BE CUT AND REMOVED TO CONSTRUCT PROPOSED DRAINAGE. PLUG EXPOSED ENDS TO REMAIN.
9. EXISTING WATER MAIN/FORCE MAIN TO BE REMOVED AND REPLACED, AND NEW MAIN TO BE TESTED, APPROVED AND SERVICES CONNECTED PRIOR TO CONSTRUCTION OF STORM DRAINAGE.
10. ALL EXISTING DRAINAGE STRUCTURES TO REMAIN MAY REQUIRE ADJUSTMENT OF FRAME AND GRATE TO MEET PROPOSED GRADES.
11. CRACKED SIDEWALK FLAGS TO BE REMOVED EVEN IN AREAS NOTED TO REMAIN.
12. ALL EXISTING AND PROPOSED DRAINAGE STRUCTURES THAT ARE LOCATED IN A SWALE WITH AN OPEN GRATE SHALL BE PROVIDED WITH AN CONCRETE APRON.
13. ALL NEW ADA CURB RAMPS SHALL INCLUDE DETECTABLE WARNING STRIP PER CITY STD DETAIL-ROAD 013.

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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8/26/2021

CONSTRUCTION SET

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING PLAN

SHEET NO.
CP-ST-23

TOTAL: 255

CAD FILE: 11868-CP-ST-A

DRAWING FILE NO. 4-142-42

9/20/2022 9:05 AM

PLOT DATE: 8/26/2021 12:16 PM BY: ASCHEFFER XREFs= ..\11868SURV,..\11868topo,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFNOTES,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFUTIL,..\11868TOPO,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master 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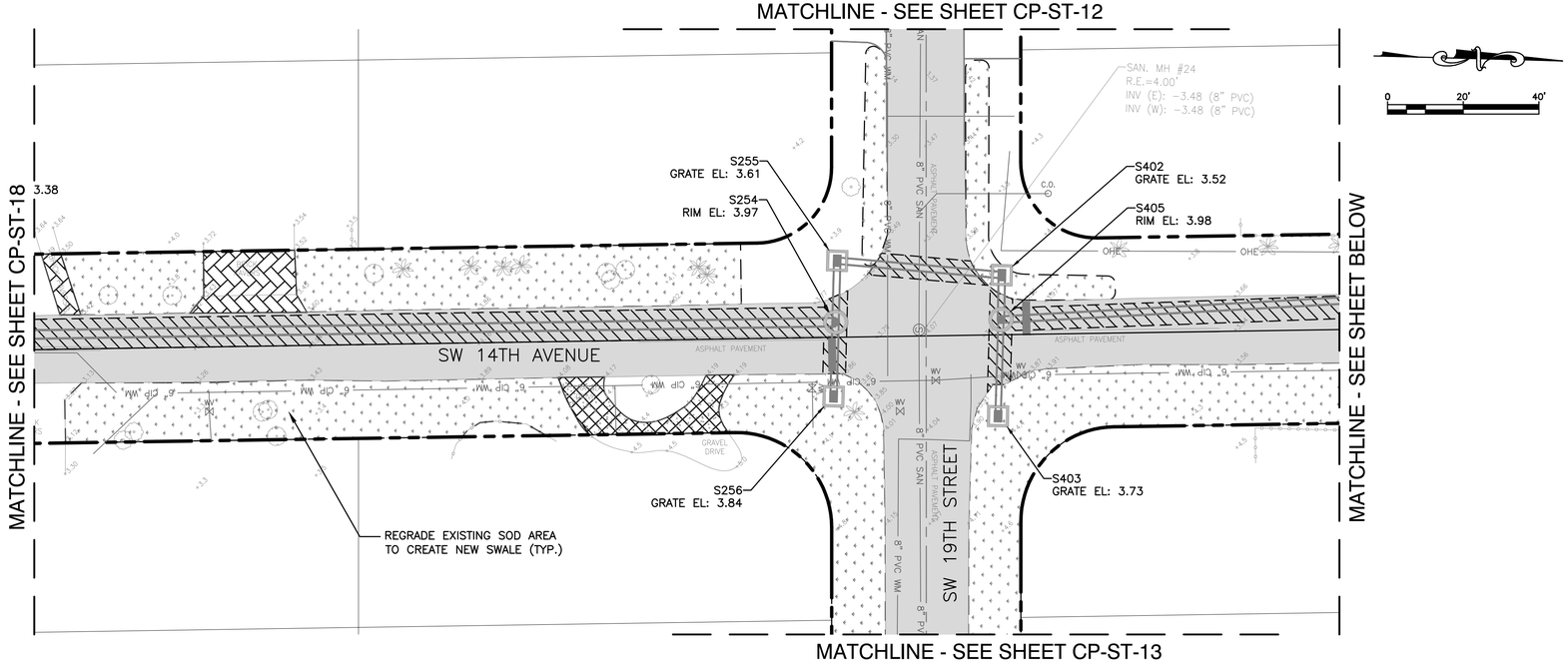
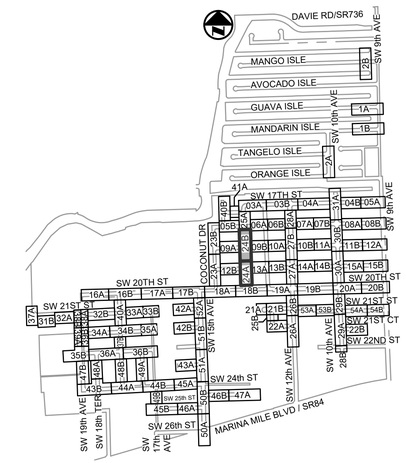
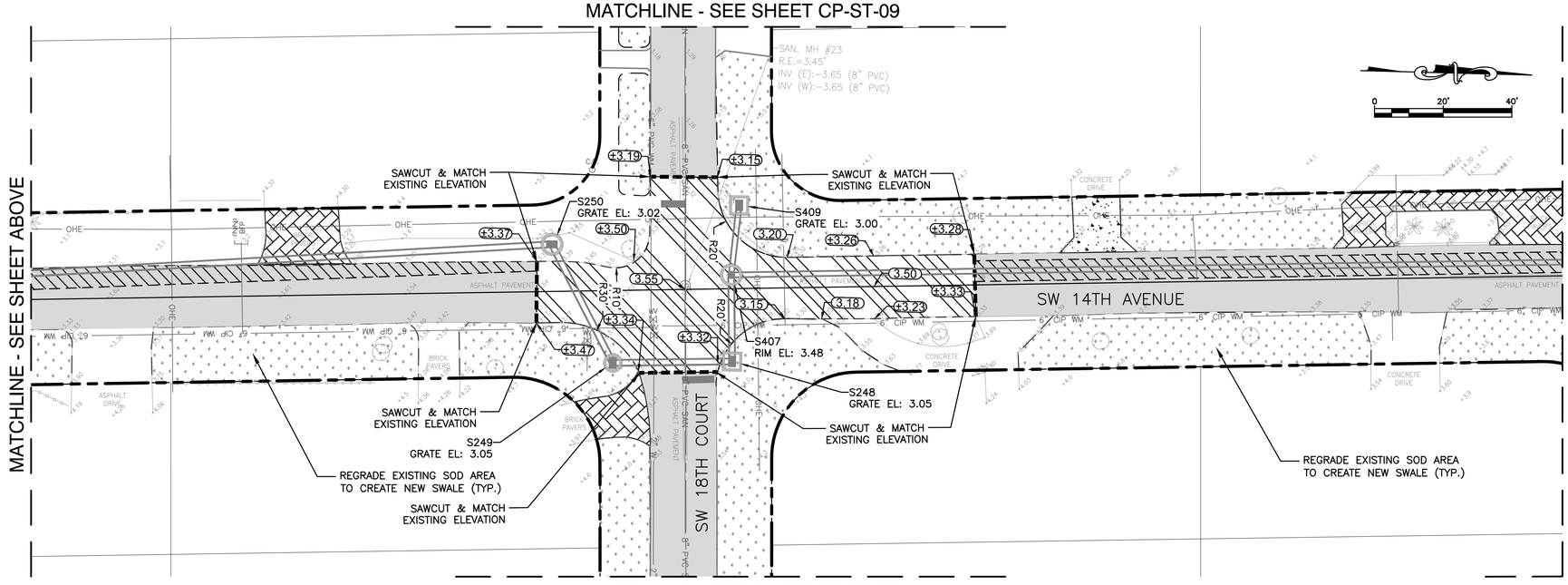




KEY MAP

N.T.S.



NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).
3. CONTRACTOR SHALL COORDINATE ALL ADJACENT TREE REMOVAL/RELOCATION WITH PROPERTY OWNER. AT OWNER'S DISCRETION CONTRACTOR SHALL MAKE TREE AVAILABLE OR PLAN/RELOCATE AT HOMEOWNER'S REQUEST WITH SIGNED WAIVER TO PLANT WITHIN PRIVATE PROPERTY.
4. ALL EXISTING UTILITIES MAY NOT BE SHOWN ON THIS PLAN. REFER TO EXISTING CONDITIONS PLANS FOR TYPE AND LOCATION OF EXISTING UTILITIES.
5. ALL EXISTING CATCH BASIN AND STORM DRAINS LOCATED WITHIN RIGHT-OF-WAY TO REMAIN UNLESS OTHERWISE SHOWN. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD PRIOR OF ANY REMOVAL OF ANY DRAINAGE STRUCTURE AND/OR PIPING BASINS AND STORM DRAINS REMOVED SHALL BE BACKFILLED PER CITY SPECIFICATIONS.
6. EXISTING CATCH BASINS LOCATED WITHIN RIGHT-OF-WAY MAY BE CONNECTED TO ADJACENT PROPERTY ROOF DRAINS. IF THIS SITUATION IS DISCOVERED DURING CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AND THE CONTRACTOR SHALL NOT REMOVE ANY PIPE OR CATCH BASINS UNLESS AUTHORIZED TO DO BY THE ENGINEER OF RECORD.
7. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY RELOCATION/COORDINATION OF EXISTING UTILITIES (WATER/SEWER) AS REQUIRED TO FACILITATE PROPOSED INFRASTRUCTURE.
8. ONCE ABANDONED, WATER MAIN CAN BE CUT AND REMOVED TO CONSTRUCT PROPOSED DRAINAGE. PLUG EXPOSED ENDS TO REMAIN.
9. EXISTING WATER MAIN/FORCE MAIN TO BE REMOVED AND REPLACED, AND NEW MAIN TO BE TESTED, APPROVED AND SERVICES CONNECTED PRIOR TO CONSTRUCTION OF STORM DRAINAGE.
10. ALL EXISTING DRAINAGE STRUCTURES TO REMAIN MAY REQUIRE ADJUSTMENT OF FRAME AND GRATE TO MEET PROPOSED GRADES.
11. CRACKED SIDEWALK FLAGS TO BE REMOVED EVEN IN AREAS NOTED TO REMAIN.
12. ALL EXISTING AND PROPOSED DRAINAGE STRUCTURES THAT ARE LOCATED IN A SWALE WITH AN OPEN GRATE SHALL BE PROVIDED WITH AN CONCRETE APRON.
13. ALL NEW ADA CURB RAMPS SHALL INCLUDE DETECTABLE WARNING STRIP PER CITY STD DETAIL-ROAD 013.

Always call 811 two full business days before you dig to have underground utilities located and marked.
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Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

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FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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ENGINEER: PATRICK J. GIBNEY
REG. No.: 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DATE: 01/07/2019
DESIGNED BY: XXX
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

Patrick J. Gibney, State of Florida, Professional Engineer, License No. 49428. This item has been electronically signed and sealed by Patrick J. Gibney on the date indicated here using an SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

8/26/2021

CONSTRUCTION SET

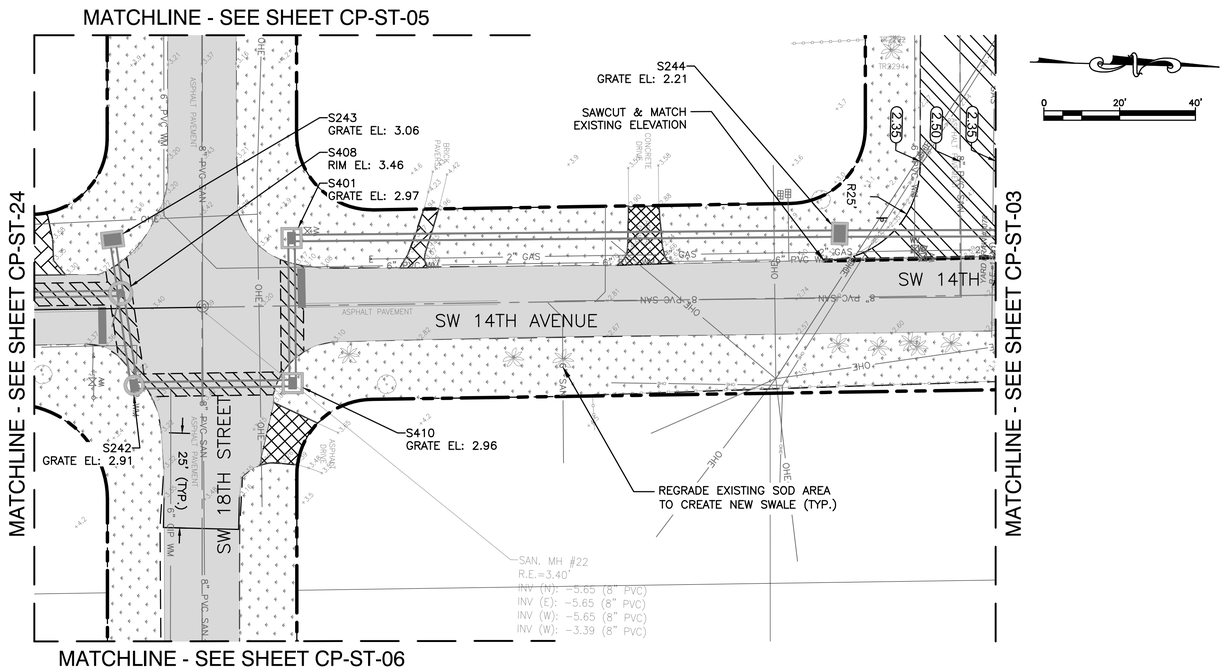
PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING PLAN

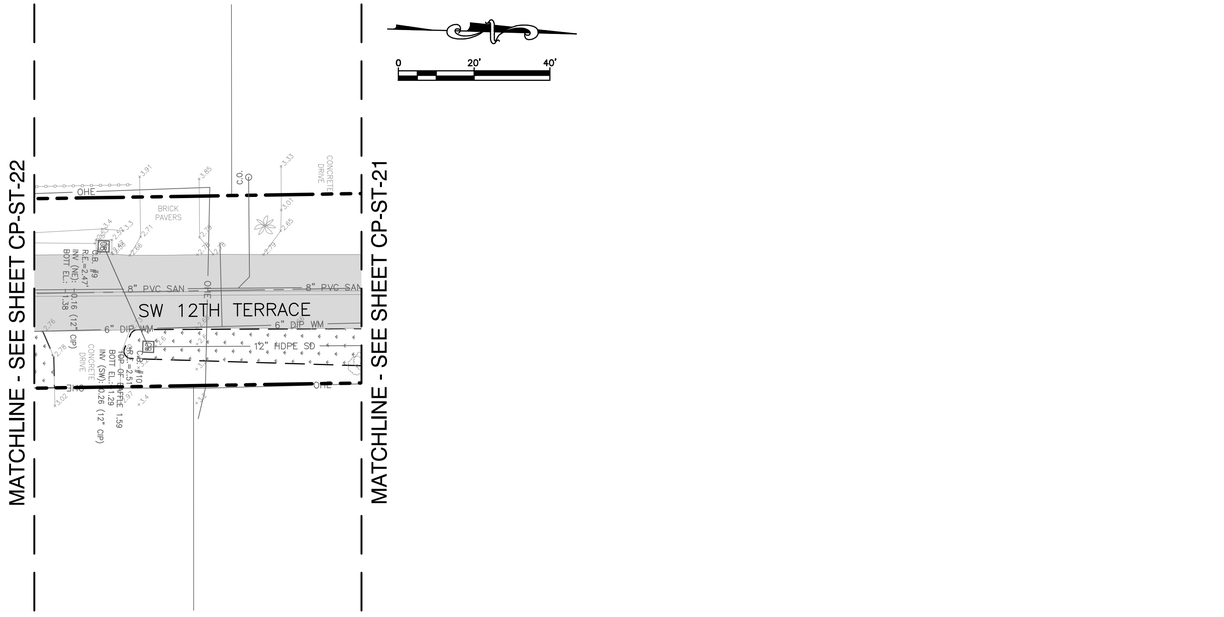
SHEET NO.
CP-ST-24

TOTAL: 255

CAD FILE: 11868-CP-ST-A

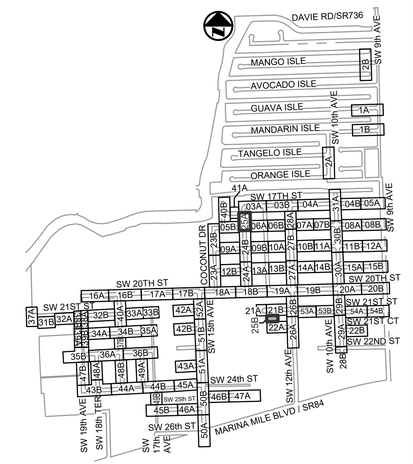
DRAWING FILE NO. 4-142-42





NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).
3. CONTRACTOR SHALL COORDINATE ALL ADJACENT TREE REMOVAL/RELOCATION WITH PROPERTY OWNER. AT OWNER'S DISCRETION CONTRACTOR SHALL MAKE TREE AVAILABLE OR PLAN/RELOCATE AT HOMEOWNER'S REQUEST WITH SIGNED WAIVER TO PLANT WITHIN PRIVATE PROPERTY.
4. ALL EXISTING UTILITIES MAY NOT BE SHOWN ON THIS PLAN. REFER TO EXISTING CONDITIONS PLANS FOR TYPE AND LOCATION OF EXISTING UTILITIES.
5. ALL EXISTING CATCH BASIN AND STORM DRAINS LOCATED WITHIN RIGHT-OF-WAY TO REMAIN UNLESS OTHERWISE SHOWN. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD PRIOR OF ANY REMOVAL OF ANY DRAINAGE STRUCTURE AND/OR PIPING BASINS AND STORM DRAINS REMOVED SHALL BE BACKFILLED PER CITY SPECIFICATIONS.
6. EXISTING CATCH BASINS LOCATED WITHIN RIGHT-OF-WAY MAY BE CONNECTED TO ADJACENT PROPERTY ROOF DRAINS. IF THIS SITUATION IS DISCOVERED DURING CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AND THE CONTRACTOR SHALL NOT REMOVE ANY PIPE OR CATCH BASINS UNLESS AUTHORIZED TO DO BY THE ENGINEER OF RECORD.
7. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY RELOCATION/COORDINATION OF EXISTING UTILITIES (WATER/SEWER) AS REQUIRED TO FACILITATE PROPOSED INFRASTRUCTURE.
8. ONCE ABANDONED, WATER MAIN CAN BE CUT AND REMOVED TO CONSTRUCT PROPOSED DRAINAGE. PLUG EXPOSED ENDS TO REMAIN.
9. EXISTING WATER MAIN/FORCE MAIN TO BE REMOVED AND REPLACED, AND NEW MAIN TO BE TESTED, APPROVED AND SERVICES CONNECTED PRIOR TO CONSTRUCTION OF STORM DRAINAGE.
10. ALL EXISTING DRAINAGE STRUCTURES TO REMAIN MAY REQUIRE ADJUSTMENT OF FRAME AND GRATE TO MEET PROPOSED GRADES.
11. CRACKED SIDEWALK FLAGS TO BE REMOVED EVEN IN AREAS NOTED TO REMAIN.
12. ALL EXISTING AND PROPOSED DRAINAGE STRUCTURES THAT ARE LOCATED IN A SWALE WITH AN OPEN GRATE SHALL BE PROVIDED WITH AN CONCRETE APRON.
13. ALL NEW ADA CURB RAMPS SHALL INCLUDE DETECTABLE WARNING STRIP PER CITY STD DETAIL-ROAD 013.



KEY MAP
N.T.S.

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8/26/2021

CONSTRUCTION SET

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

CRAVEN • THOMPSON AND ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
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FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING PLAN

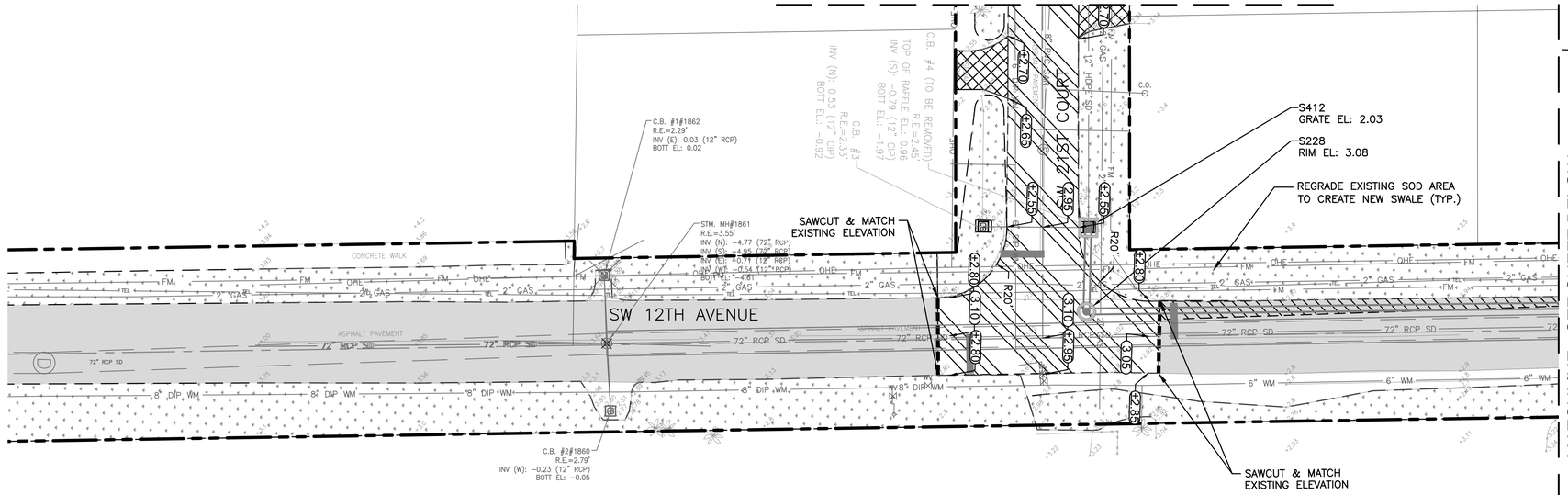
SHEET NO.
CP-ST-25

TOTAL: 255

CAD FILE:
11868-CP-ST-A

DRAWING FILE NO.
4-142-42

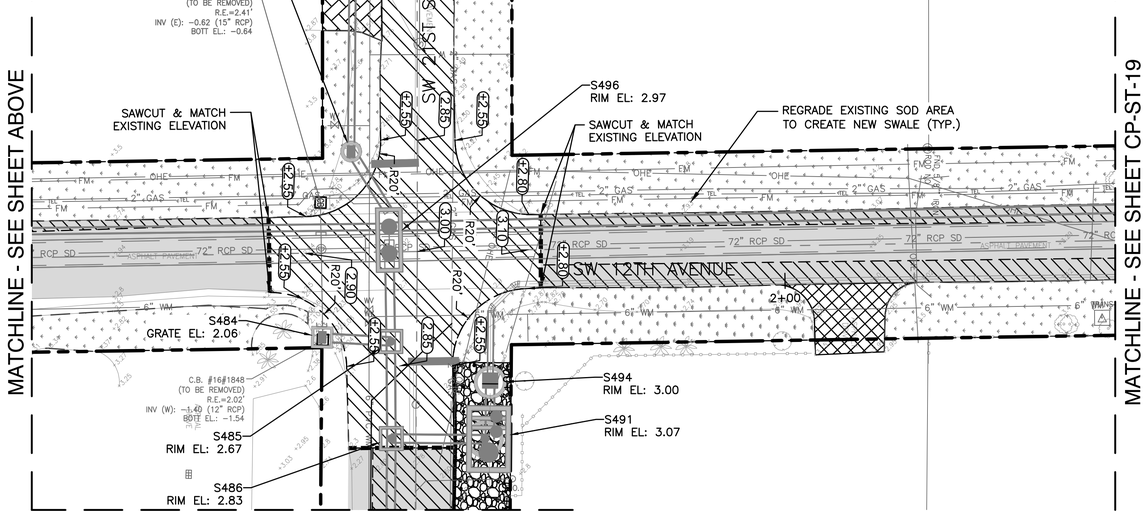
MATCHLINE - SEE SHEET CP-ST-22



MATCHLINE - SEE SHEET BELOW

NOTE:
1. SW 12TH AVENUE FROM SW 21ST COURT SOUTH TO SR84 SHALL BE MILLED AND RESURFACED.
2. CONTRACTOR SHALL PROVIDE SWALES IN ACCORDANCE WITH SWALE DETAILS ALONG BOTH SIDES OF ALL ROADWAYS MILLED & RESURFACED.

MATCHLINE - SEE SHEET CP-ST-21



MATCHLINE - SEE SHEET CP-ST-19

MATCHLINE - SEE SHEET CP-ST-53

NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET C2-DT-22).
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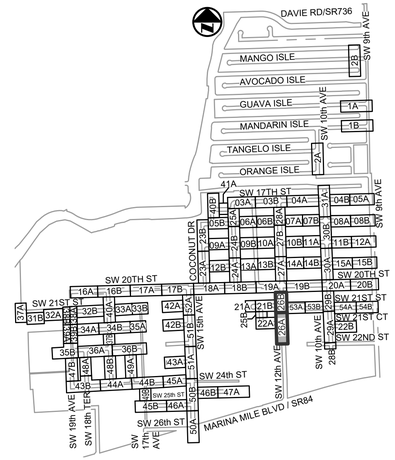

KEY MAP
N.T.S.

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
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Certificate of Authorization No: 2771

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8/26/2021

CONSTRUCTION SET

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING PLAN

SHEET NO.
CP-ST-26

TOTAL: 255

CAD FILE:
11868-CP-ST-A

DRAWING FILE NO.
4-142-42

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

9/20/2022 9:05 AM

PLOT DATE: 8/26/2021 12:21 PM BY: ASCHEFFER XREFs= ..\11868SURV,..\11868topo,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master Plan\Drawings\11868\11868XREFNOTES,R:\Engineering\2016\16-0042-001-01 Fort Lauderdale Stormwater Master 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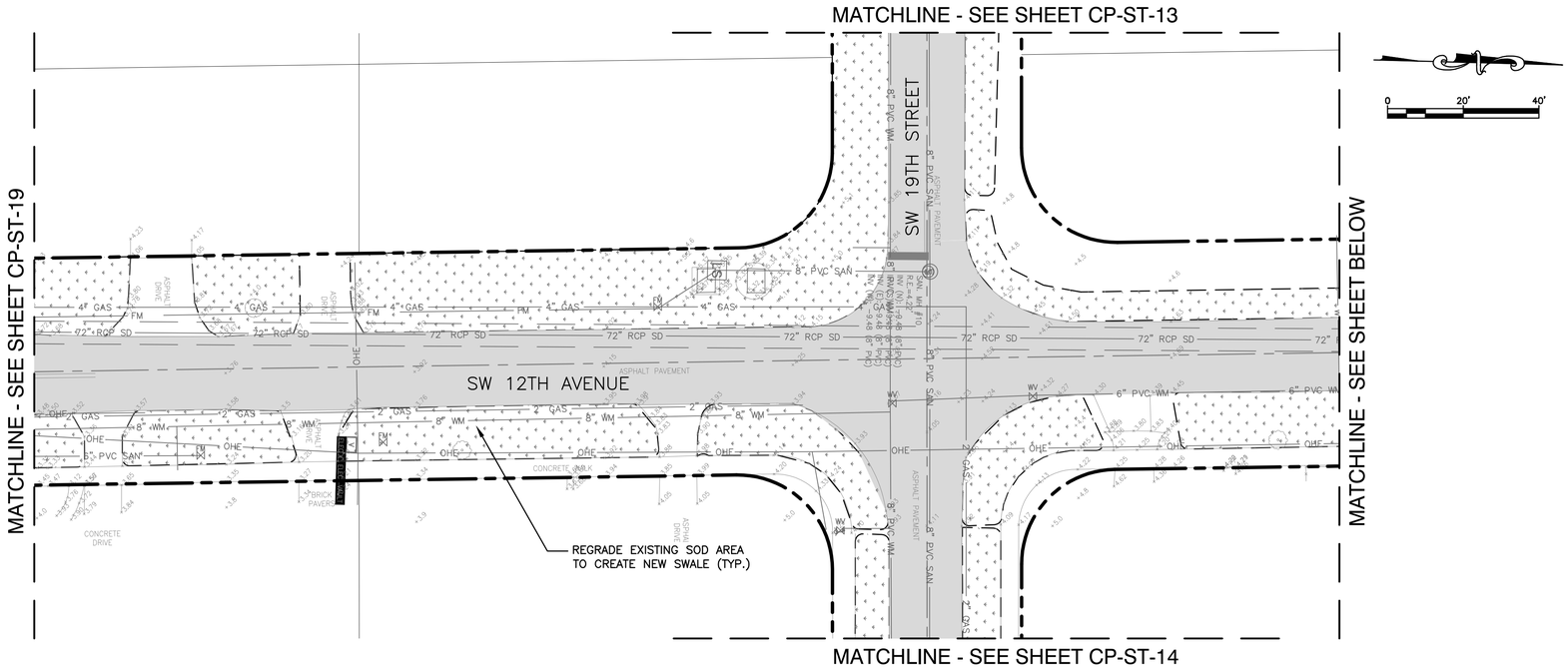
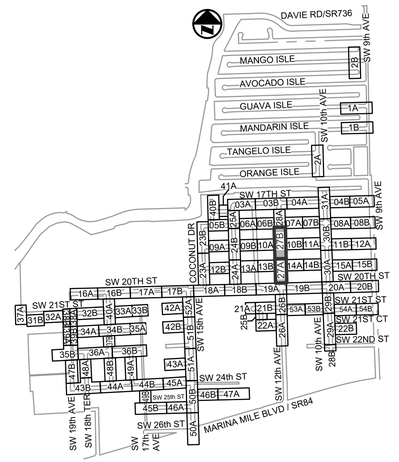
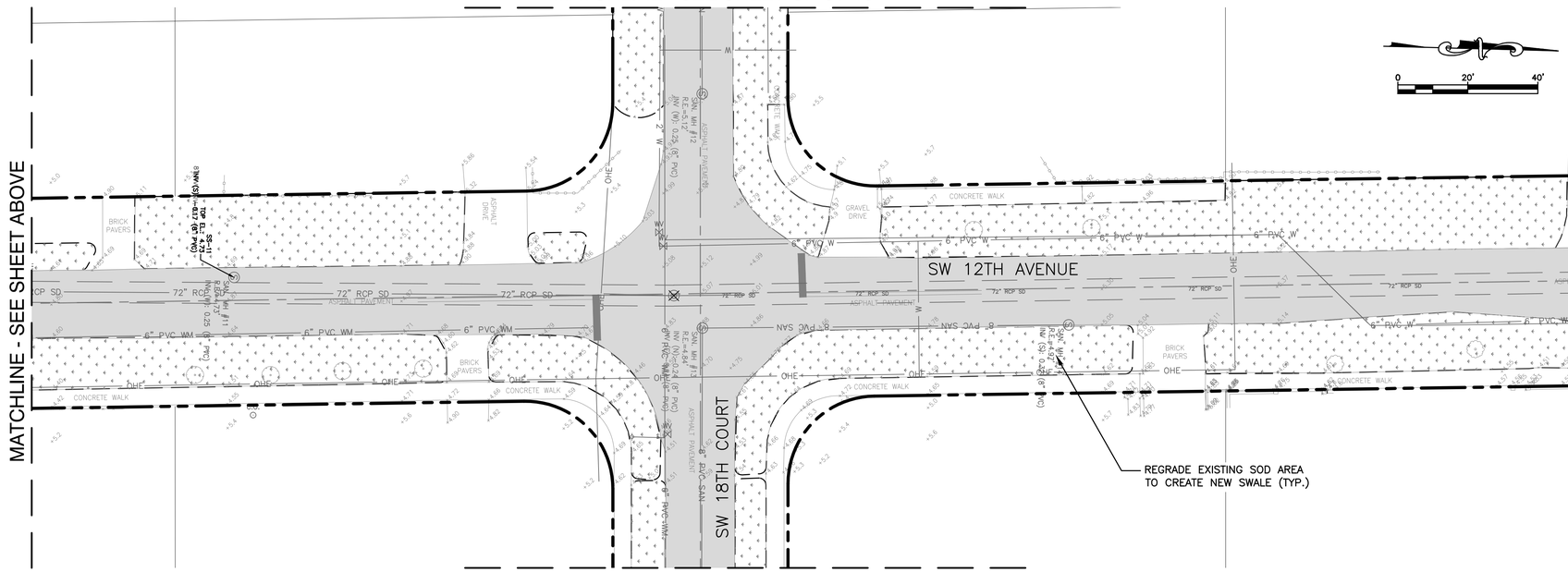




KEY MAP

N.T.S.



NOTES:

1. EXISTING UTILITY DEPTHS ARE UNKNOWN UNLESS OTHERWISE INDICATED. LOCATIONS AND DEPTHS ARE ESTIMATED.
2. 4,196 LF OF NEW/RESTORED SWALE PROPOSED FOR ENTIRE PROJECT (SEE DETAIL ON SHEET CZ-DT-22).
3. CONTRACTOR SHALL COORDINATE ALL ADJACENT TREE REMOVAL/RELOCATION WITH PROPERTY OWNER. AT OWNER'S DISCRETION CONTRACTOR SHALL MAKE TREE AVAILABLE OR PLAN/RELOCATE AT HOMEOWNER'S REQUEST WITH SIGNED WAIVER TO PLANT WITHIN PRIVATE PROPERTY.
4. ALL EXISTING UTILITIES MAY NOT BE SHOWN ON THIS PLAN. REFER TO EXISTING CONDITIONS PLANS FOR TYPE AND LOCATION OF EXISTING UTILITIES.
5. ALL EXISTING CATCH BASIN AND STORM DRAINS LOCATED WITHIN RIGHT-OF-WAY TO REMAIN UNLESS OTHERWISE SHOWN. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD PRIOR OF ANY REMOVAL OF ANY DRAINAGE STRUCTURE AND/OR PIPING BASINS AND STORM DRAINS REMOVED SHALL BE BACKFILLED PER CITY SPECIFICATIONS.
6. EXISTING CATCH BASINS LOCATED WITHIN RIGHT-OF-WAY MAY BE CONNECTED TO ADJACENT PROPERTY ROOF DRAINS. IF THIS SITUATION IS DISCOVERED DURING CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AND THE CONTRACTOR SHALL NOT REMOVE ANY PIPE OR CATCH BASINS UNLESS AUTHORIZED TO DO BY THE ENGINEER OF RECORD.
7. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY RELOCATION/COORDINATION OF EXISTING UTILITIES (WATER/SEWER) AS REQUIRED TO FACILITATE PROPOSED INFRASTRUCTURE.
8. ONCE ABANDONED, WATER MAIN CAN BE CUT AND REMOVED TO CONSTRUCT PROPOSED DRAINAGE. PLUG EXPOSED ENDS TO REMAIN.
9. EXISTING WATER MAIN/FORCE MAIN TO BE REMOVED AND REPLACED, AND NEW MAIN TO BE TESTED, APPROVED AND SERVICES CONNECTED PRIOR TO CONSTRUCTION OF STORM DRAINAGE.
10. ALL EXISTING DRAINAGE STRUCTURES TO REMAIN MAY REQUIRE ADJUSTMENT OF FRAME AND GRATE TO MEET PROPOSED GRADES.
11. CRACKED SIDEWALK FLAGS TO BE REMOVED EVEN IN AREAS NOTED TO REMAIN.
12. ALL EXISTING AND PROPOSED DRAINAGE STRUCTURES THAT ARE LOCATED IN A SWALE WITH AN OPEN GRATE SHALL BE PROVIDED WITH AN CONCRETE APRON.
13. ALL NEW ADA CURB RAMPS SHALL INCLUDE DETECTABLE WARNING STRIP PER CITY STD DETAIL-ROAD 013.

Hazen

HAZEN AND SAWYER
4000 HOLLYWOOD BLVD, SUITE 750N
HOLLYWOOD, FLORIDA 33021

Certificate of Authorization No: 2771

CRAVEN • THOMPSON AND ASSOCIATES, INC.
ENGINEERS • PLANNERS • SURVEYORS
3563 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309
FAX: (954) 739-6409 TEL: (954) 739-6400
FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS No. 271
FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS No. C000114

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ENGINEER: PATRICK J. GIBNEY
REG. No.: 49428
DATE: 01/22/2021

TEL: 954-987-0066
FAX: 954-987-2949

DRAWN BY: XXX
DESIGNED BY: XXX
DATE: 01/07/2019
SCALE: 1"=20'
CHECKED BY: XXX
FIELD BOOK: XXXX

CITY OF FORT LAUDERALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE
100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS

NO.	DATE	BY	CHK'D	DESCRIPTION

Patrick J. Gibney, State of Florida, Professional Engineer, License No. 49428. This item has been electronically signed and sealed by Patrick J. Gibney on the date indicated here using an SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

8/26/2021

CONSTRUCTION SET

PROJECT # 11868
STORMWATER IMPROVEMENTS
RIVER OAKS NEIGHBORHOOD
PAVING & GRADING PLAN

SHEET NO.
CP-ST-27

TOTAL: 255

CAD FILE: 11868-CP-ST-A

DRAWING FILE NO. 4-142-42

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com