BREVARD COUNTY
BOARD OF COUNTY COMMISSIONERS

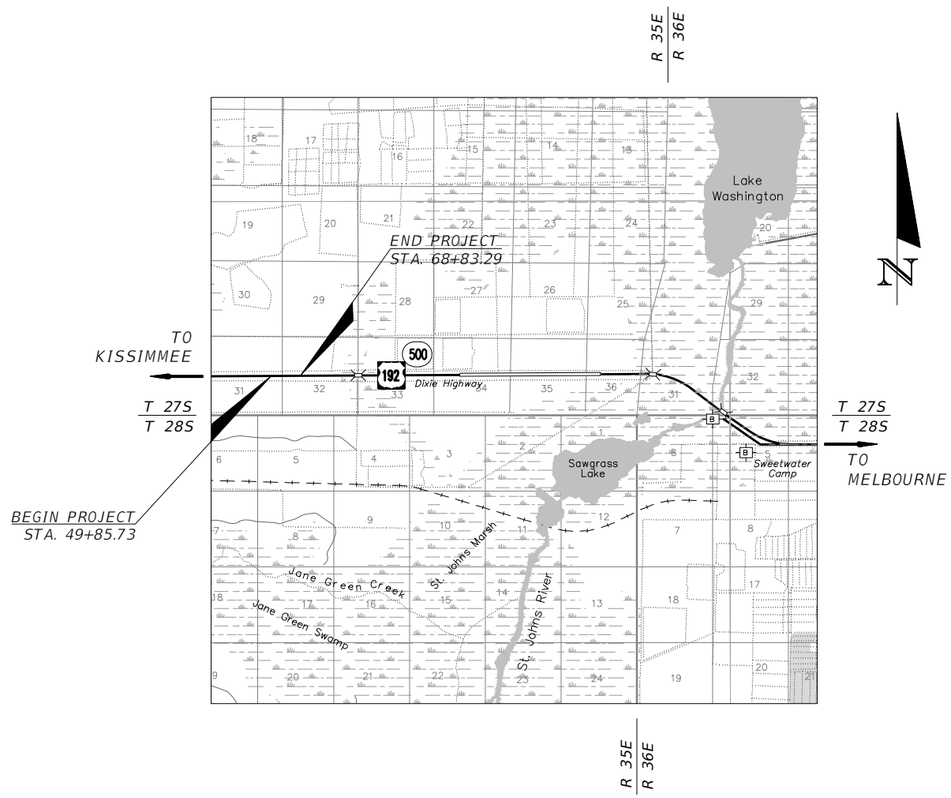
CONTRACT PLANS

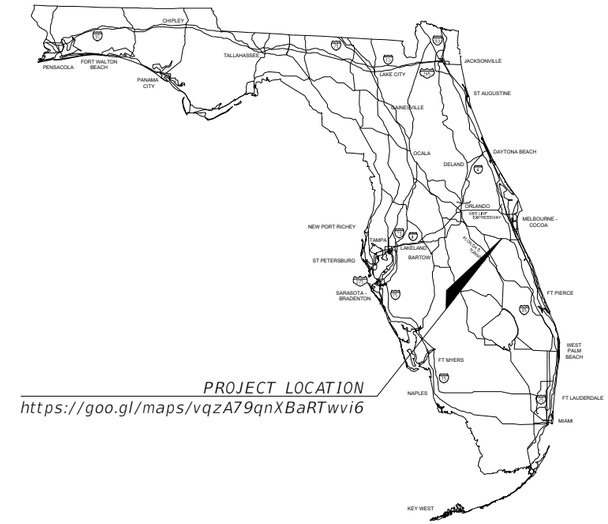
DRIVEWAY IMPROVEMENTS FOR BREVARD COUNTY SOLID WASTE MANAGEMENT FACILITY

STATE ROAD NO. 500 (US 192)

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
01	KEY SHEET
02	SIGNATURE SHEET
03	DRAINAGE MAP
04 - 05	TYPICAL SECTION
06	STRUCTURAL ASPHALT DETAILS
07	GENERAL NOTES
08 - 11	ROADWAY PLAN
12 - 15	DRAINAGE STRUCTURES
16 - 22	CROSS SECTIONS
23	STORMWATER POLLUTION PREVENTION PLAN
24 - 27	SIGNING AND PAVEMENT MARKING PLAN
28	GUIDE SIGN WORKSHEET
29	VEGETATION CLEARING NOTES
30 - 32	VEGETATION CLEARING PLAN





PROJECT LOCATION
https://goo.gl/maps/vqzA79qnXBaRTwvi6

ROADWAY PLANS
ENGINEER OF RECORD:

MIKAL REED HALE, P.E.
P.E. No.: 58048
TRAFFIC ENGINEERING DATA SOLUTIONS, INC.
80 SPRING VISTA DRIVE
DeBARY, FL 32713

GOVERNING STANDARD PLANS:
Florida Department of Transportation, FY2021-22 Standard plans for Road and Bridge Construction and applicable Interim Revisions (Irs).

Standard Plans for Road Construction and associated Irs are availalbe at the following website:
http://www.fdot.gov/design/Standardplans.shtm

APPLICABLE IRs: 711-001

GOVERNING STANDARD SPECIFICATIONS:
Florida Department of Transportation, July, 2021 Standard Specifications for Road and Bridge Construction at the following website:

http://www.fdot.gov/programmanagement/Implemented/SpecBooks

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SHEET NO.
01

MIKAL REED HALE
LICENSE
No.58048
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED
AND SEALED BY:

Mikal R Hale

Digitally signed by Mikal R Hale
DN: CN=Mikal R Hale,
OU=A01410D000001730203 4F3E00003E37,
O=TRAFFIC ENGINEERING DATA
SOLUTIONS INC., C=US
Date: 2021.05.27 13:09:37-04'00'

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

TRAFFIC ENGINEERING DATA SOLUTIONS, INC.
80 SPRING VISTA DR
DEBARY, FL 32713
MIKAL R. HALE, P.E. NO. 58048

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

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REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
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TEDS
MIKAL REED HALE, P.E. #58048
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Phone 386.753.0558 80 Spring Vista Drive
Fax 386.753.0778 DeBary, FL 32713

DRIVEWAY IMPROVEMENTS FOR BREVARD COUNTY
SOLID WASTE MANAGEMENT FACILITY

ROAD NO.	COUNTY	PROJECT ID
SR 500	BREVARD	11072 - WO #1

SIGNATURE SHEET

SHEET NO.
02

D-201
STA 50+80.00 (5.50 LT)
CONST. DITCH BOTTOM INLET - TYPE C
(DOUBLE SLOT)
INDEX NO. 425-052
TOP EL. = 23.07'
FL 18.69 E (24")

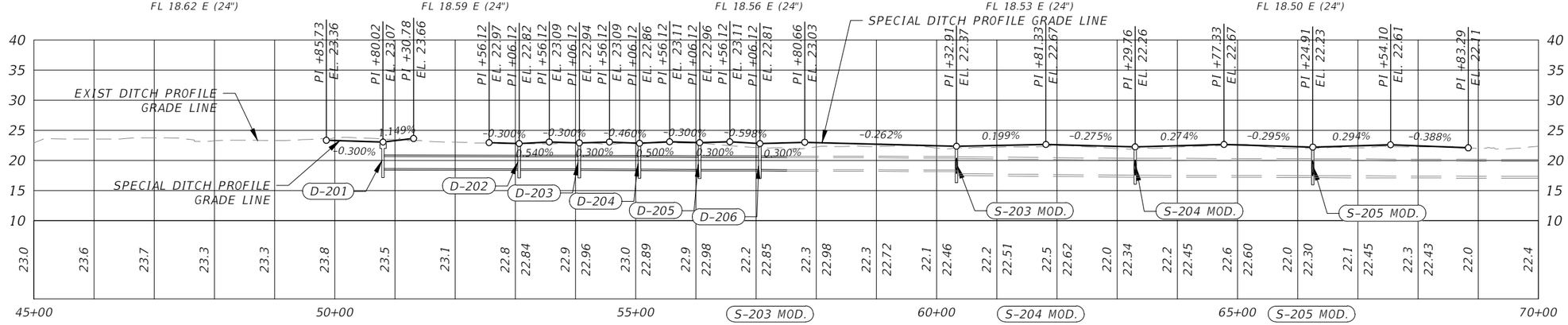
D-202
STA 53+06.12 (0.00)
CONST. GUTTER INLET - TYPE S
INDEX NO. 425-040
TOP EL. = 22.82'
FL 18.62 W (24")
FL 18.62 E (24")

D-203
STA 54+06.12 (0.00)
CONST. GUTTER INLET - TYPE S
INDEX NO. 425-040
TOP EL. = 22.94'
FL 18.59 W (24")
FL 18.59 E (24")

D-204
STA 55+06.12 (0.00)
CONST. GUTTER INLET - TYPE S
INDEX NO. 425-040
TOP EL. = 22.86'
FL 18.56 W (24")
FL 18.56 E (24")

D-205
STA 56+06.12 (0.00)
CONST. GUTTER INLET - TYPE S
INDEX NO. 425-040
TOP EL. = 22.96'
FL 18.53 W (24")
FL 18.53 E (24")

D-206
STA 57+06.12 (0.00)
CONST. GUTTER INLET - TYPE S
INDEX NO. 425-040
TOP EL. = 22.81'
FL 18.50 W (24")
FL 18.50 E (24")

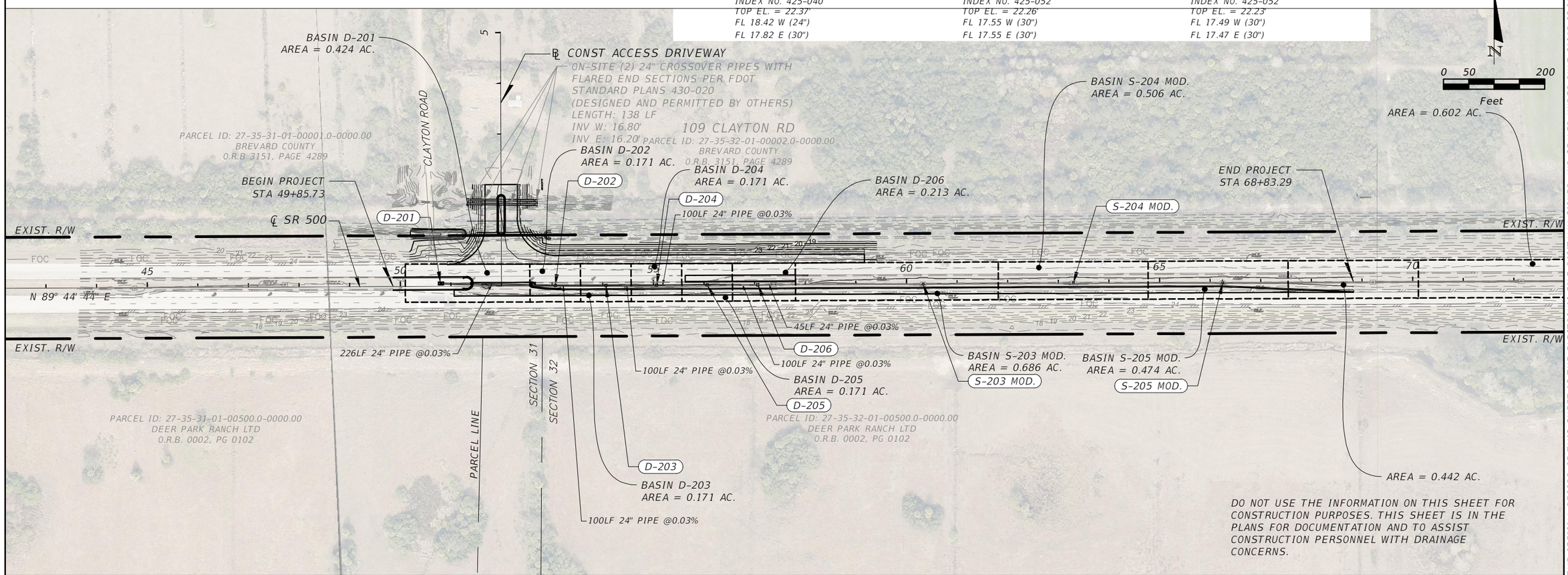


S-203 MOD.
STA 60+32.91 (6.00 LT)
CONST. DITCH BOTTOM INLET
TYPE C (DOUBLE SLOT) - WITH
J BOTTOM (5'X10')
INDEX NO. 425-040
TOP EL. = 22.37'
FL 18.42 W (24")
FL 17.82 E (30")

S-204 MOD.
STA 63+29.76 (6.00 LT)
CONST. DITCH BOTTOM INLET
TYPE C (DOUBLE SLOT) - WITH
J BOTTOM (5'X10')
INDEX NO. 425-052
TOP EL. = 22.26'
FL 17.55 W (30")
FL 17.55 E (30")

S-205 MOD.
STA 66+24.77 (6.00 LT)
CONST. DITCH BOTTOM INLET
TYPE C (DOUBLE SLOT) - WITH
J BOTTOM (5'X10')
INDEX NO. 425-052
TOP EL. = 22.23'
FL 17.49 W (30")
FL 17.47 E (30")

SCALE: 1" = 200' Horizontal
1" = 10' Vertical



DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS.

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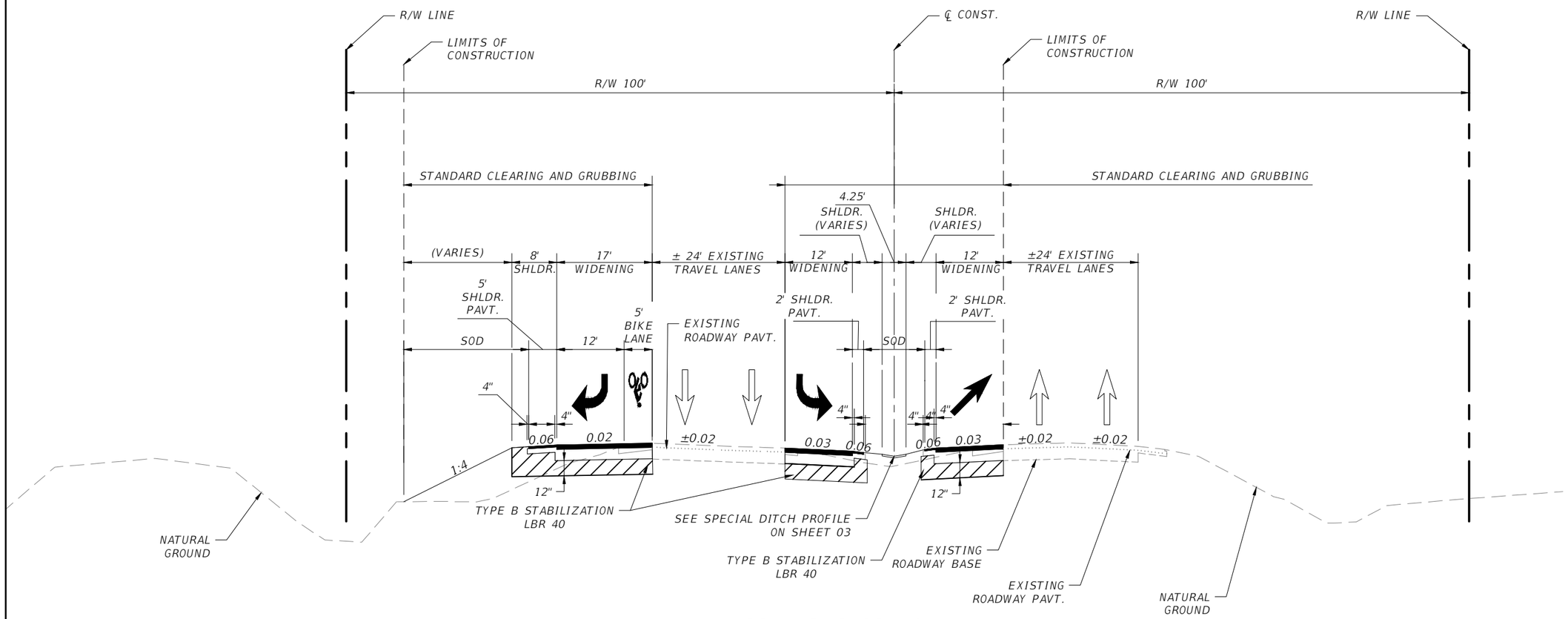
DRAINAGE MAP

SHEET NO. 03



TYPICAL SECTION 1
SR 500 (US 192)
STA. 49+85.73 TO STA. 57+80.66

WIDENING

OPTIONAL BASE GROUP 12 WITH
TYPE SP-12.5 STRUCTURAL COURSE* (TRAFFIC D) (4")
AND FRICTION COURSE** FC-5 (¾")

SHOULDER PAVEMENT

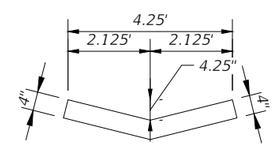
OPTIONAL BASE GROUP 3 WITH
TYPE SP-12.5 STRUCTURAL COURSE* (TRAFFIC D) (1 ½")
AND FRICTION COURSE** FC-5 (¾")

*USE FDOT ASPHALT MIX DESIGN SPM 19-17469A (TL-D)
SEE SHEET 06 FOR MIX DESIGN DETAILS.

**FRICTION COURSE TO BE PLACED ONCE CONSTRUCTION OF SOLID WASTE MANAGEMENT FACILITY IMPROVEMENTS ARE SUBSTANTIALLY COMPLETED AND CONSTRUCTION VEHICLES ARE NO LONGER USING DRIVEWAY

TRAFFIC DATA

CURRENT YEAR = 2019 AADT = 7700
ESTIMATED OPENING YEAR = 2021 AADT = 7850
ESTIMATED DESIGN YEAR = 2031 AADT = 8600
K = 9.5 % D = 54.7% T = 16.4% (24 HOUR)
DESIGN HOUR T = 8.2%
DESIGN SPEED = 70 MPH



MODIFIED CONCRETE DITCH PAVEMENT FOR SWALED MEDIAN
REFER TO FDOT INDEX No. 524-001

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DRIVEWAY IMPROVEMENTS FOR BREVARD COUNTY SOLID WASTE MANAGEMENT FACILITY

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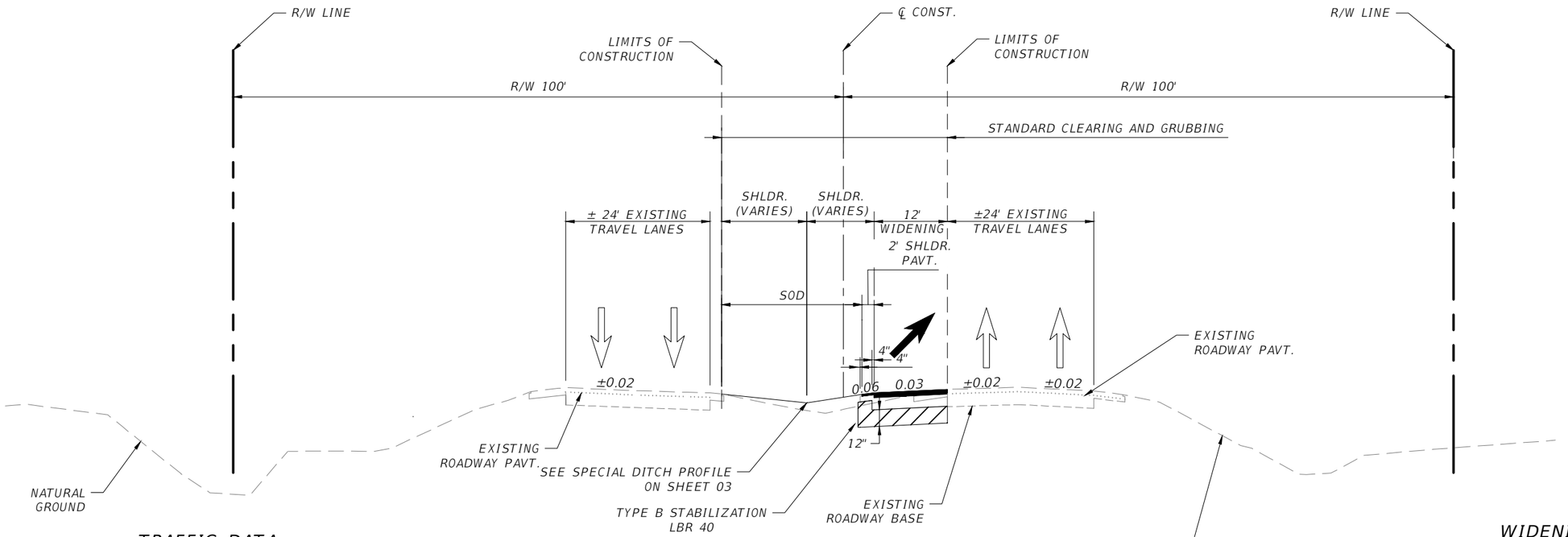
TYPICAL SECTION

SHEET NO. 04



TRAFFIC DATA

CURRENT YEAR = 2019 AADT = 7700
ESTIMATED OPENING YEAR = 2021 AADT = 7850
ESTIMATED DESIGN YEAR = 2031 AADT = 8600
K = 9.5 % D = 54.7% T = 16.4% (24 HOUR)
DESIGN HOUR T = 8.2%
DESIGN SPEED = 70 MPH

TYPICAL SECTION 2
SR 500 (US 192)
STA. 57+80.66 TO STA. 68+83.29

WIDENING

OPTIONAL BASE GROUP 12 WITH
TYPE SP-12.5 STRUCTURAL COURSE* (TRAFFIC D) (4")
AND FRICTION COURSE** FC-5 (¾")

SHOULDER PAVEMENT

OPTIONAL BASE GROUP 3 WITH
TYPE SP-12.5 STRUCTURAL COURSE* (TRAFFIC D) (1 ½")
AND FRICTION COURSE** FC-5 (¾")

*USE FDOT ASPHALT MIX DESIGN SPM 19-17469A (TL-D)
SEE SHEET 06 FOR MIX DESIGN DETAILS.

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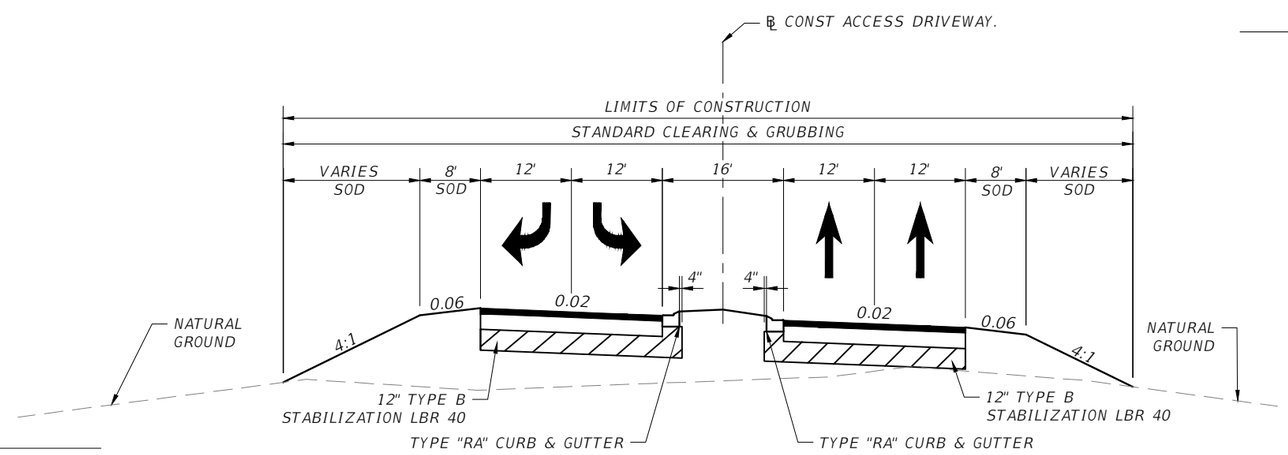

TRAFFIC DATA

DESIGN SPEED = 25 MPH
POSTED SPEED = 25 MPH

TYPICAL SECTION 3
ACCESS DRIVEWAY
STA. 0+42.82 TO STA. 2+00.00

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TYPICAL SECTION

SHEET NO. 05

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Dev334REF
Reinforcing Fiber in Asphalt

SUPERPAVE ASPHALT CONCRETE – REINFORCING FIBERS IN ASPHALT. (02-14-19)

ARTICLE 334-2 is expanded by the following new Subarticle:

334-2.5 Reinforcing Fibers: When specified in the Contract Documents, provide reinforcing fibers conforming to the requirements below. Design the asphalt mixture without the fibers. Do not alter the final mix design for the addition of fibers at the asphalt plant.

Add the fibers at a rate of 1 pound per ton of total mix. Introduce the fibers into the asphalt drum with a fiber delivery system meeting the requirements of the fiber manufacturer. Furnish with the mix design submittal certified test data for the fibers to be used on the project.

The physical properties of the reinforcing fibers shall be as follows:

1. Materials in a blend of polyolefin and para-aramid or aramid.
2. Length: 3/4 inch
3. Form:
   a. Polyolefin: Serrated
   b. Aramid: Monofilament
4. Specific Gravity:
   a. Polyolefin: 0.91
   b. Aramid: 1.44
5. Tensile Strength:
   a. Aramid: ≥ 400,000 psi
6. Melt Temperature:
   a. Polyolefin: ≥ 270ºF
   b. Aramid: ≥ 800ºF
7. Acid/Alkali Resistance: Inert

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

ASPHALT MIX DESIGN - SPM 19-17469A (TL-D)

Owning Company: V. A. Paving, Inc.

Type Mix: SP-12.5 — Intended Use Of Mix: Structural

Design Traffic Level: D — Gyrations @ Ndes: 100

Product	Description	Name	Production Facility	Plant/Mine	Terminal
334-CRUSHED	Crushed RAP Stockpile	1-13	V. A. Paving, Inc.	A0739	
C45	S1A Stone		Vulcan Materials Company	GA178	
C52	S1B Stone		Vulcan Materials Company	GA178	
F21	Screenings	Screenings	Vulcan Materials Company	GA178	
Sand	Sand				

PERCENTAGE BY WEIGHT TOTAL AGGREGATE PASSING SIEVES

	Blend	20%	20%	28%	17%	15%			JOB MIX FORMULA	CONTROL POINTS	PRIMARY CONTROL SIEVE
	Product	334-CRUSHED RAP	C45	C52	F21	Sand					
SIEVE SIZE	3/4" 19.0mm	100	100	100	100	100			100	100 -	
	1/2" 12.5mm	99	53	100	100	100			90	90 - 100	
	3/8" 9.5mm	96	24	100	100	100			84	- 89	
	No. 4 4.75mm	81	4	38	100	100			60		
	No. 8 2.36mm	67	2	5	70	100			42	40 - 58	39
	No. 16 1.18mm	58	2	3	44	100			35	29 -	
	No. 30 600µm	51	2	2	29	98			31	22 -	
	No. 50 300µm	36	1	1	17	60			20	16 -	
	No. 100 150µm	17	1	1	8	12			7		
	No. 200 75µm	7.8	0.3	0.3	4.0	0.5			3.5	2 - 10	
	G_{sb}	2.579	2.708	2.705	2.713	2.635			2.670		

The mix properties of the Job Mix Formula have been conditionally verified, pending successful final verification during production at the assigned plant, the mix design is approved subject to F.D.O.T. specifications. JMF reflects aggregate changes expected during production.

Total Binder Content: 5.0 %
Ignition Oven Corr. Factor: -0.09
(+ To Be Added)/(- To Be Subtracted)
Gmm Corr. Factor: -0.002
Mixing Temp. (Plant): 320 °F
Compaction Temp. (Roadway): 320 °F
Spread Rate @ 1": 107 lb/yd^2
Binder from Recycled Materials: 1.10 %
PG 76-22 (PMA) to be added: 3.90 %

Gmb @ Ndes: 2.381
Gmm: 2.480
Va: 4.0
VMA: 15.3
VFA: 74
P-200/Pbe: 0.7
Additives

Effective Date: 6/15/2019
Expiration Date: 6/15/2022

Anti-strip to be added. See APL for dosage rate. Sand source: V.A. Paving, Inc.

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REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
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TEDS
MIKAL REED HALE, P.E. #58048
TRAFFIC ENGINEERING DATA SOLUTIONS, INC.
Phone 386.753.0558 — 80 Spring Vista Drive
Fax 386.753.0778 — DeBary, FL 32713

DRIVEWAY IMPROVEMENTS FOR BREVARD COUNTY SOLID WASTE MANAGEMENT FACILITY

ROAD NO.	COUNTY	PROJECT ID
SR 500	BREVARD	11072 - WO #1

STRUCTURAL ASPHALT DETAILS

SHEET NO. 06

GENERAL NOTES

1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

2. ALL SURVEY INFORMATION WAS OBTAINED FROM A LICENSED FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AND UTILIZED AS SUPPORTING DATA IN THE PRODUCTION OF DESIGN PLANS AND FOR CONSTRUCTION ON SUBJECT PROJECT. THE PROFESSIONAL SURVEYOR AND MAPPER OF RECORD IS:
   SUSAN G. JACKSON
   P.S.M. No.: 4637
   BREVARD COUNTY PUBLIC WORKS
   SURVEYING & MAPPING DIVISION
   2725 JUDGE FRAN JAMIESON WAY
   BUILDING A, SUITE A220
   VIERA, FL 32940

3. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE Vv, Vh and Vvh) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS / ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.

4. UTILITY / AGENCY OWNERS:

COMPANIES	CONTACTS	TELEPHONE NUMBERS
ZAYO GROUP/ FORMERLY LIGHTWAVE, LLC	DEAN PATE	(407) 605-6125
FLORIDA POWER & LIGHT	SUE WILLIAMS	(321) 726-4847
AT&T/ DISTRIBUTION	LUKE FOLKERTS	(407) 496-6041
UNITI FIBER LLC	BOB MENSCHING	(904) 718-8152
CHARTER COMMUNICATION	PAUL RYMER	(321) 757-6503

5. SPECIAL EVENT DAYS FOR THIS PROJECT INCLUDE:

   BIKE WEEK
   SPRING BREAK
   BIKETOBERFEST
   ROCKET LAUNCHES
   AIR SHOWS
   DAYTONA SPEED WEEKS

TEMPORARY TRAFFIC CONTROL NOTES

1. THE EXISTING POSTED SPEED IS TO BE MAINTAINED ON THE ROADWAY DURING CONSTRUCTION. ALL SPEED LIMIT SIGNS ARE TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS.

2. LANE CLOSURES MAY ONLY OCCUR WHEN ACTIVE WORK IS BEING PERFORMED ON THE ROADWAY. ALL LANE CLOSURES SHALL BE APPROVED BY THE ENGINEER. ALL LANE CLOSURES MUST BE REPORTED TO THE LANE CLOSURE INFORMATION SYSTEM (LCIS) 14 DAYS PRIOR TO ANY CLOSURE. LCIS IS ACCESSIBLE AT: HTTPS://LCIS.DOT.STATE.FL.US/

3. MAINTENANCE OF VEHICULAR TRAFFIC SHALL BE IN ACCORDANCE WITH FDOT STANDARD PLANS 102 SERIES, SPECIFIC ATTENTION IS DIRECTED TO FDOT STANDARD PLANS NUMBER 102-600, 102-601, 102-602 AND 102-613

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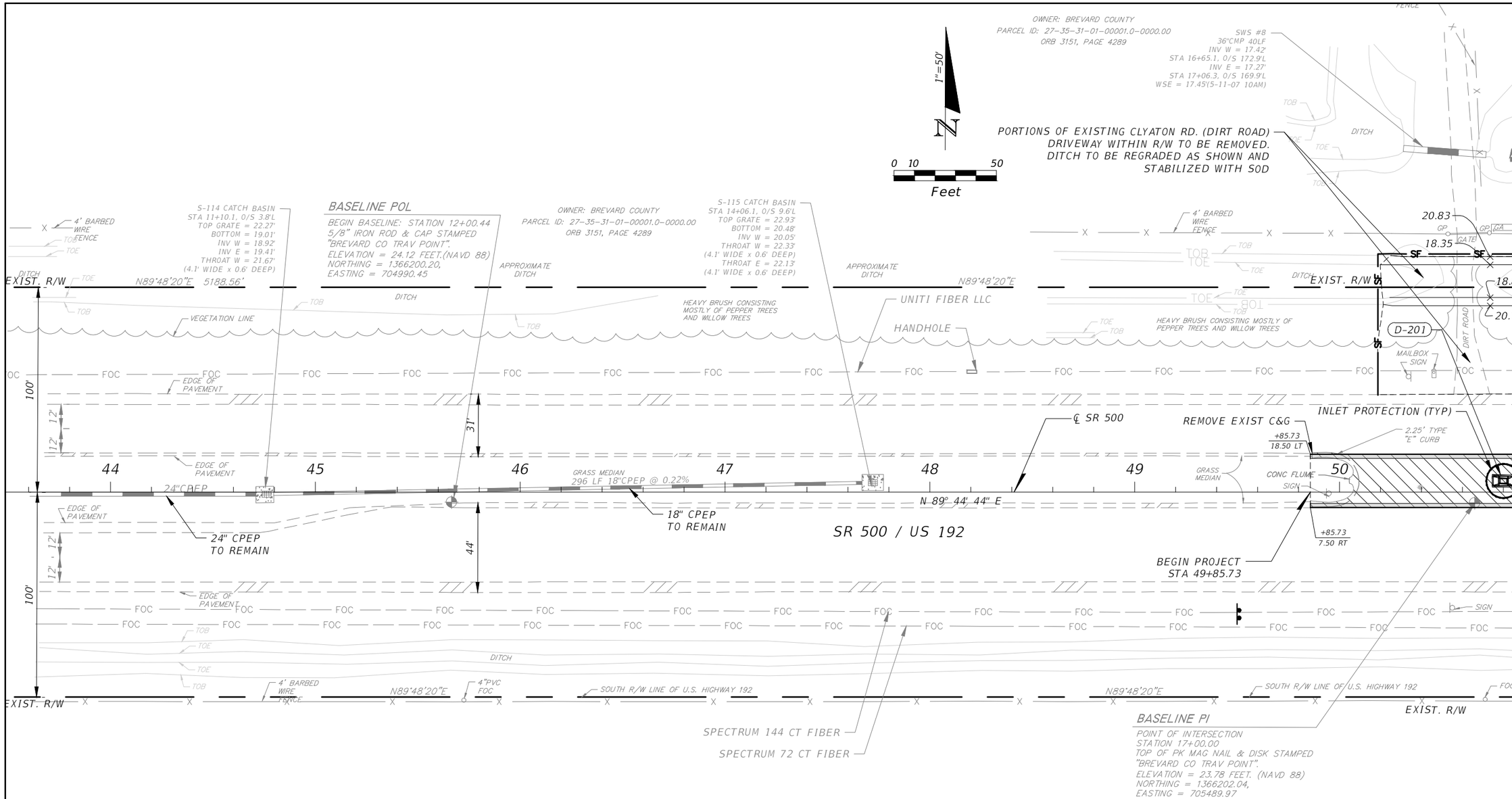

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DRIVEWAY IMPROVEMENTS FOR BREVARD COUNTY SOLID WASTE MANAGEMENT FACILITY

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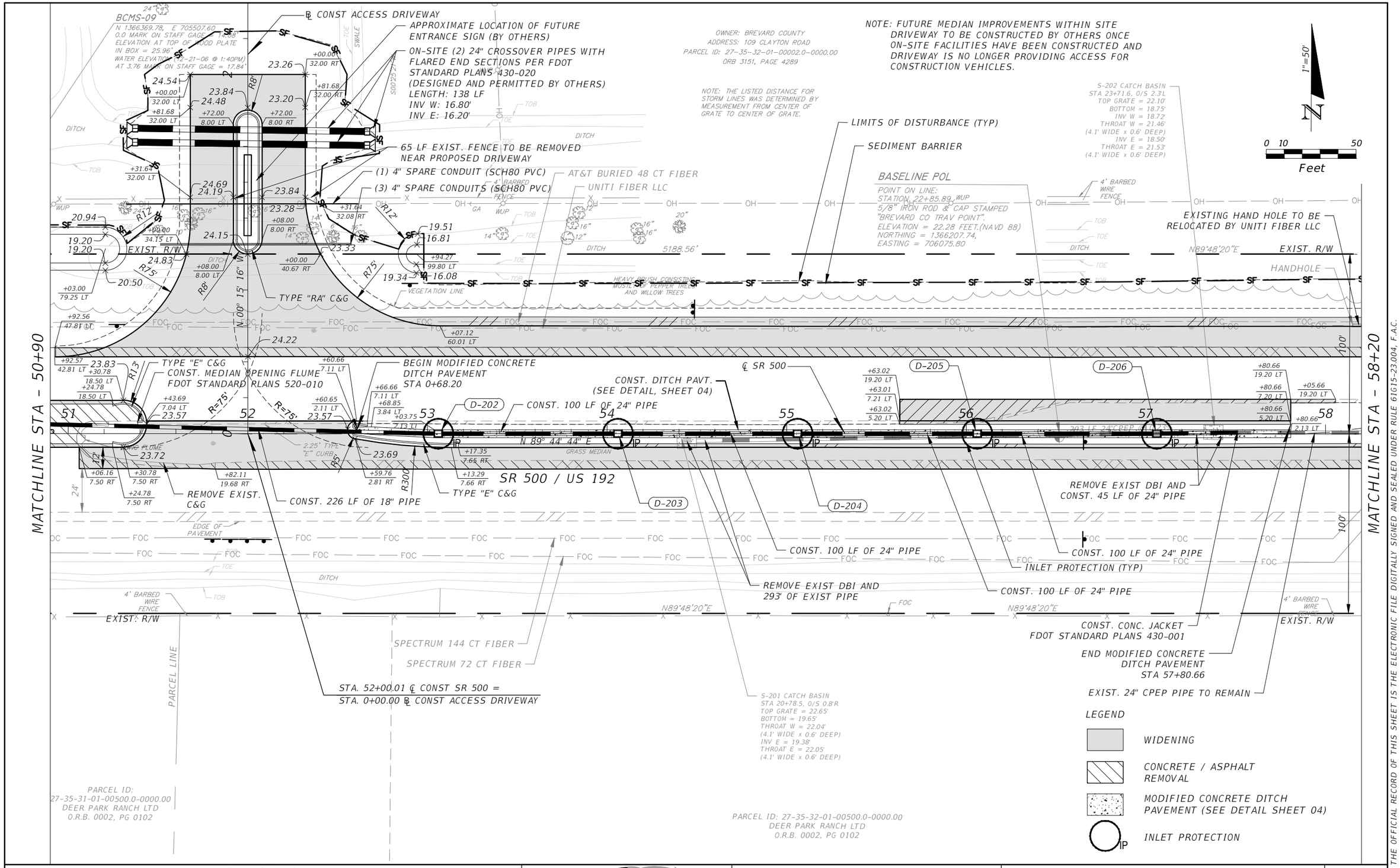
ROADWAY PLAN

SHEET NO. 08



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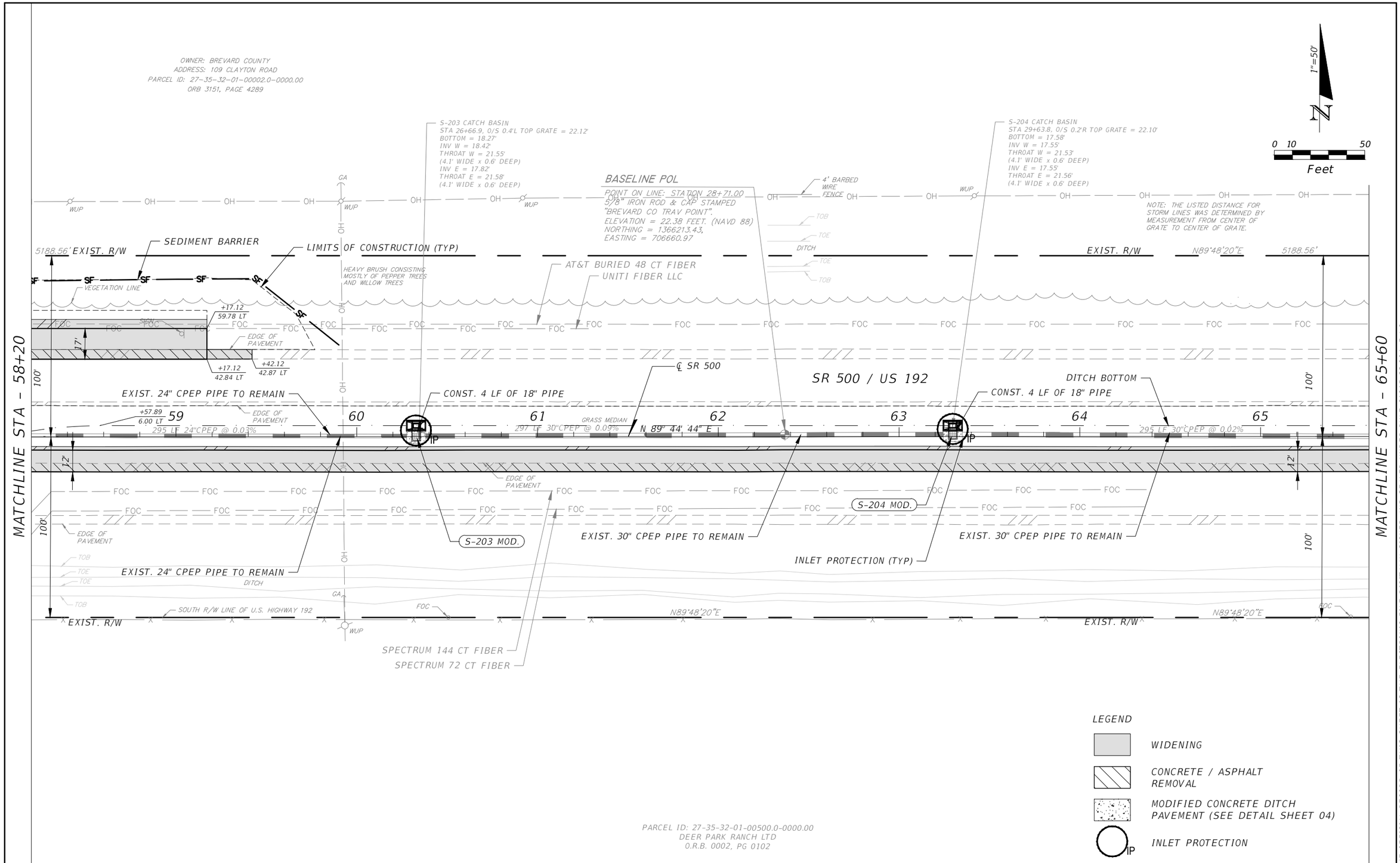
ROADWAY PLAN

SHEET NO. 09



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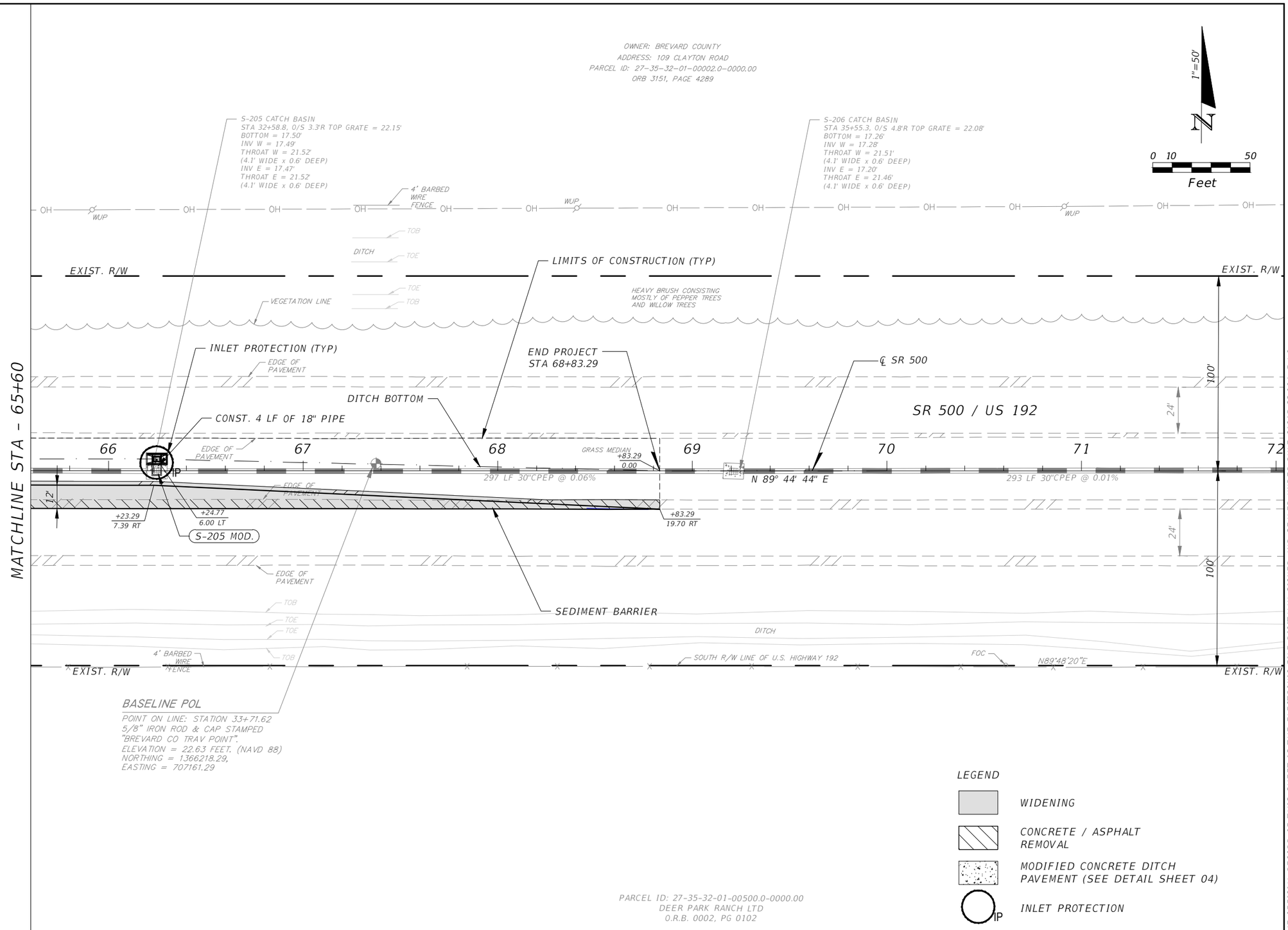
ROADWAY PLAN

SHEET NO. 10



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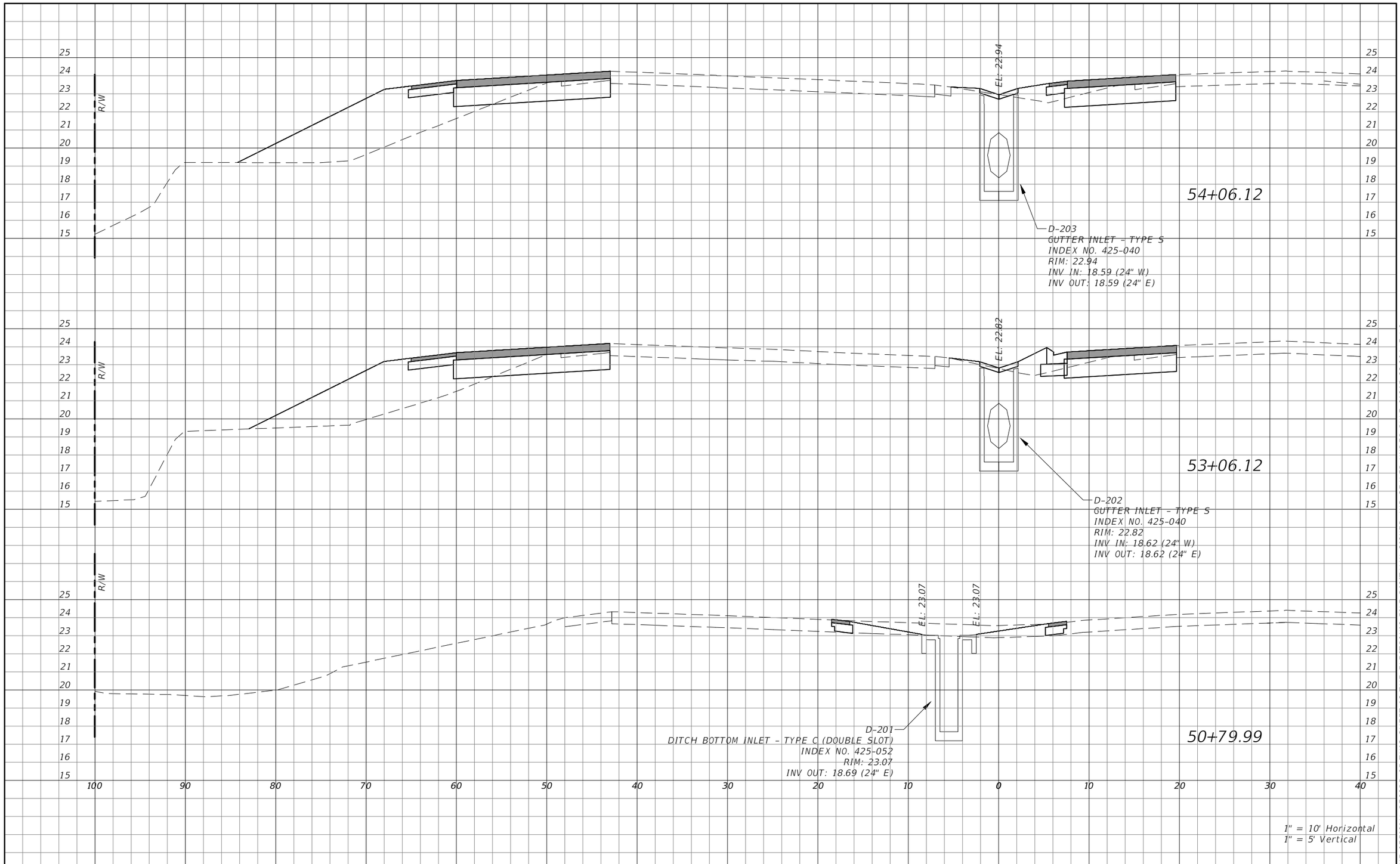
DRIVEWAY IMPROVEMENTS FOR BREVARD COUNTY SOLID WASTE MANAGEMENT FACILITY

ROAD NO.	COUNTY	PROJECT ID
SR 500	BREVARD	11072 - WO #1

ROADWAY PLAN

SHEET NO. 08



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REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
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TEDS
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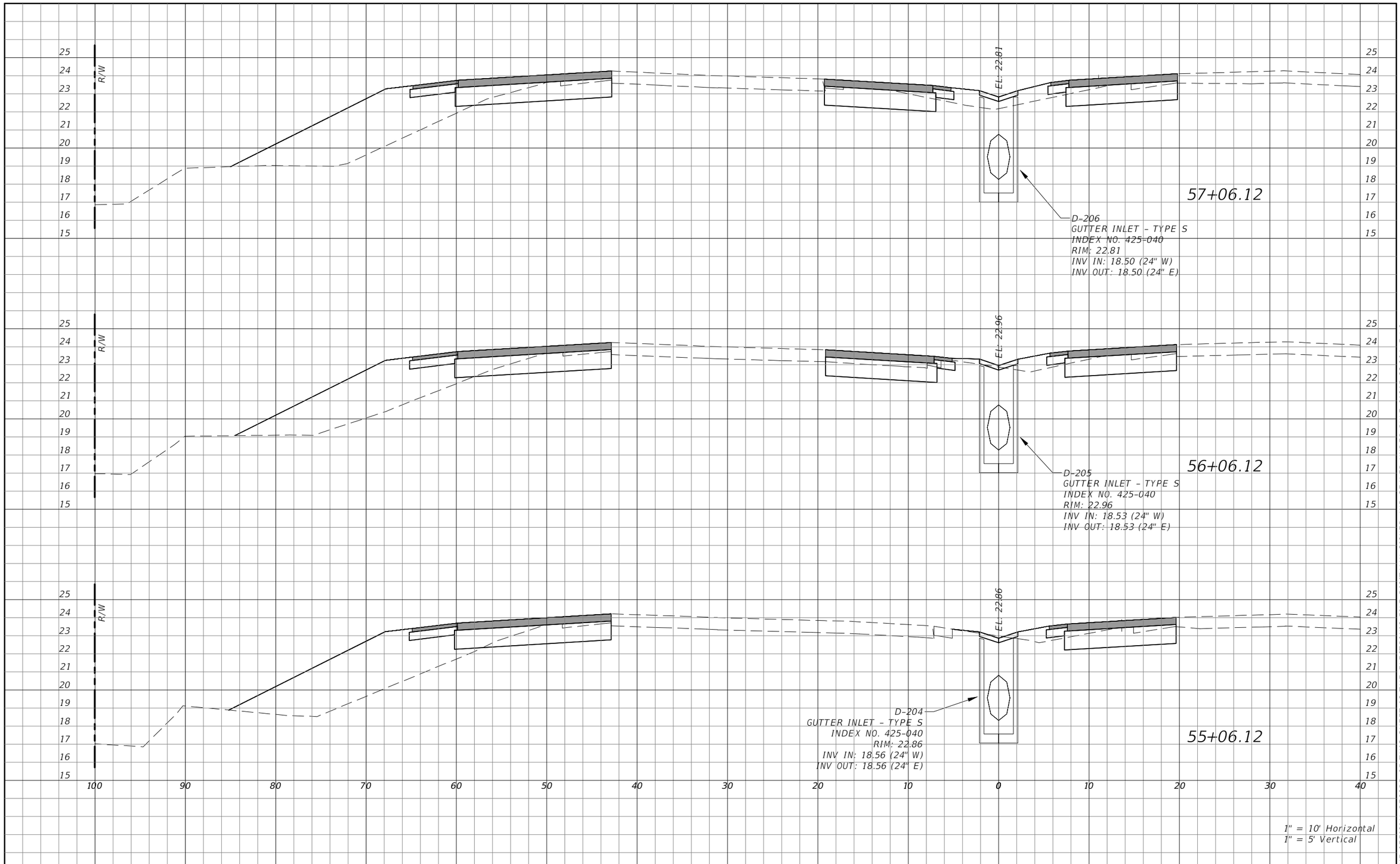
Phone 386.753.0558 80 Spring Vista Drive
Fax 386.753.0778 DeBary, FL 32713

DRIVEWAY IMPROVEMENTS FOR BREVARD COUNTY
SOLID WASTE MANAGEMENT FACILITY

ROAD NO.	COUNTY	PROJECT ID
SR 500	BREVARD	11072 - WO #1

DRAINAGE STRUCTURES

SHEET NO. 12



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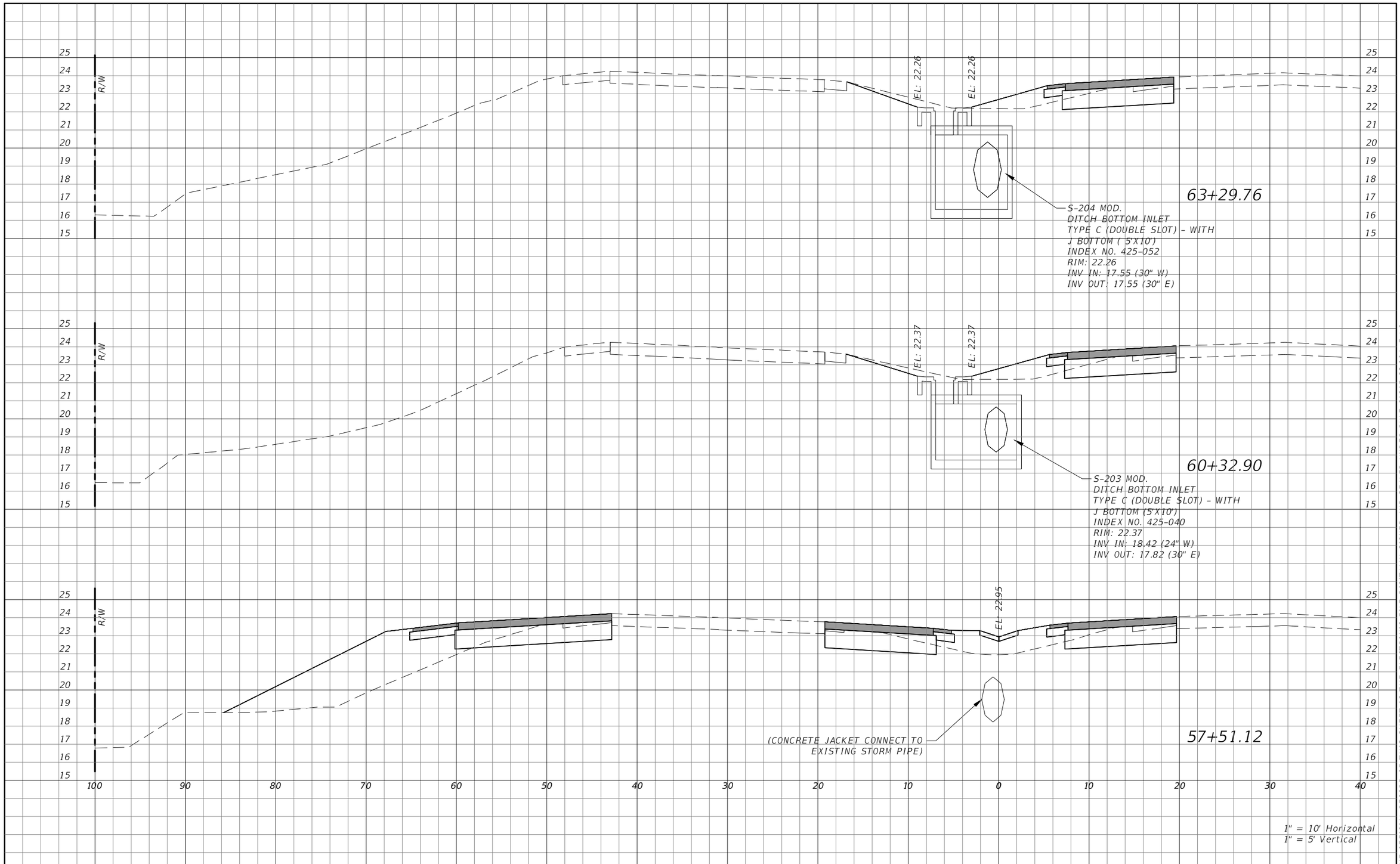
DRAINAGE STRUCTURES

SHEET NO. 13



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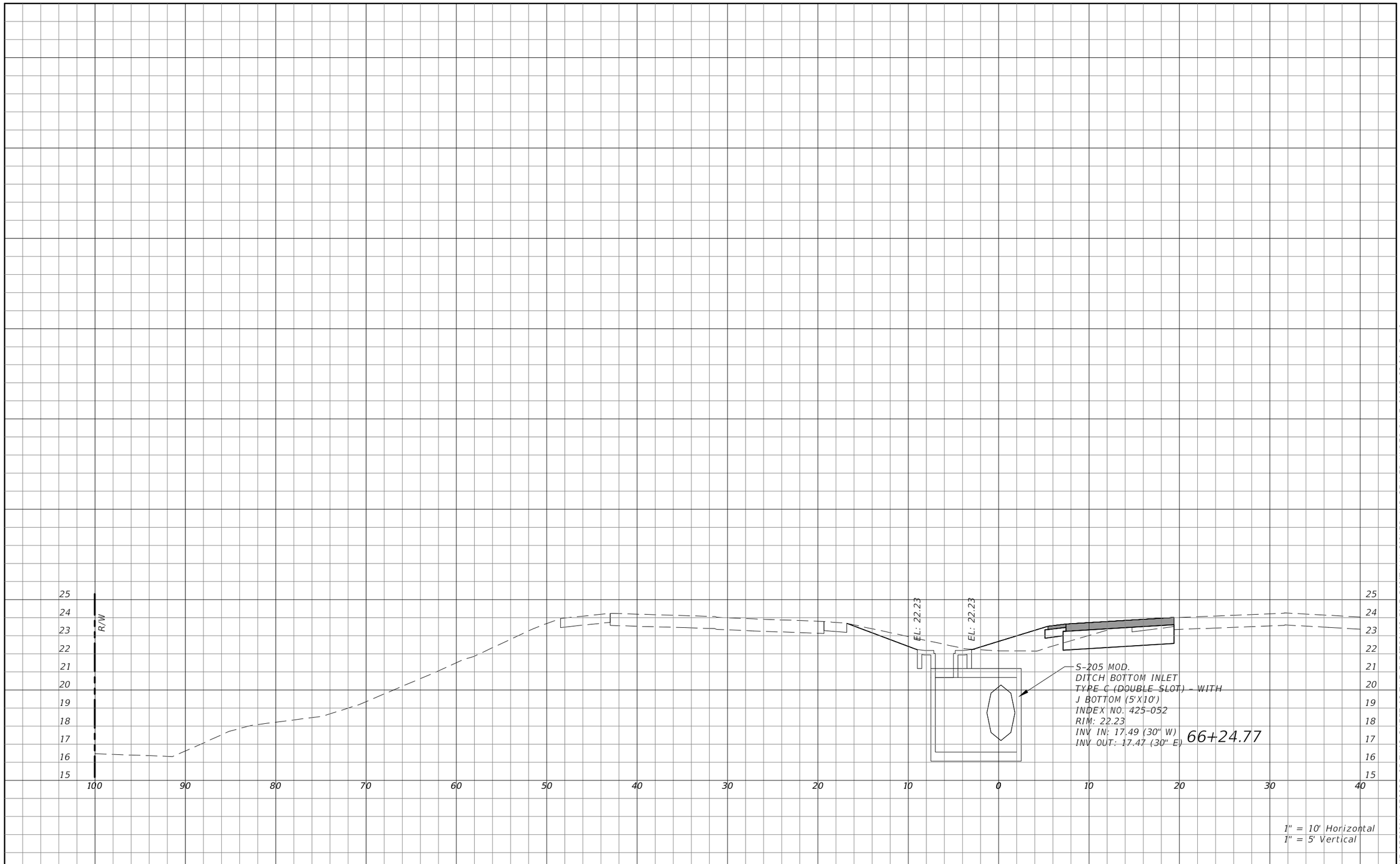
ROAD NO.	COUNTY	PROJECT ID
SR 500	BREVARD	11072 - WO #1

DRAINAGE STRUCTURES

SHEET NO. 14



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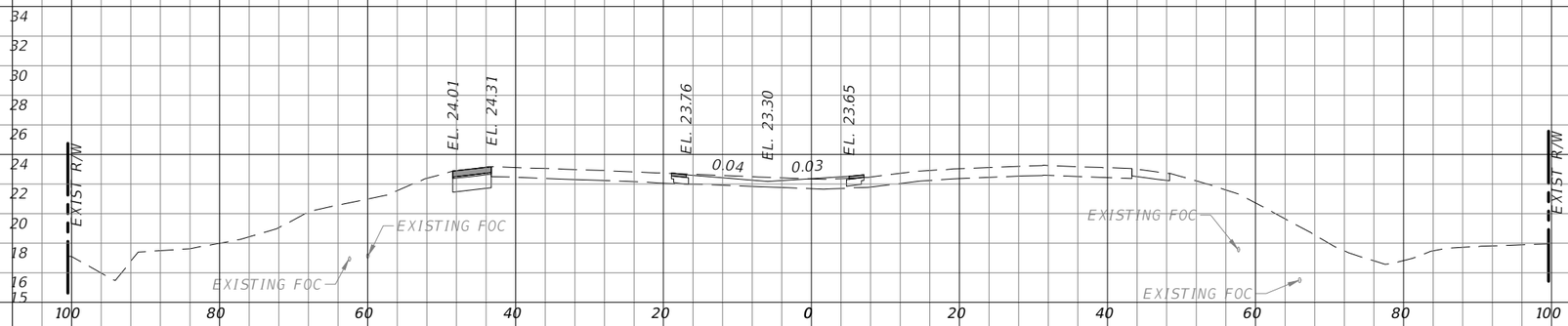
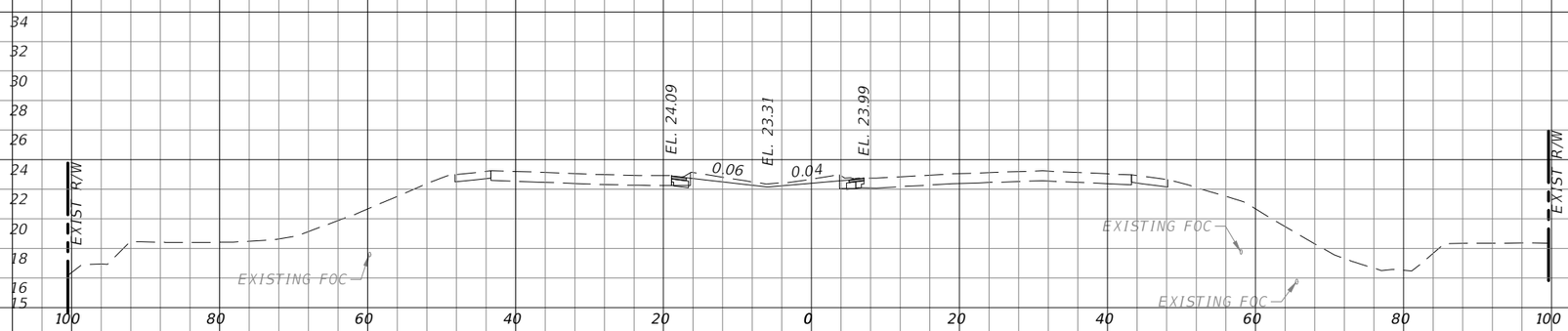
DRIVEWAY IMPROVEMENTS FOR BREVARD COUNTY
SOLID WASTE MANAGEMENT FACILITY

ROAD NO.	COUNTY	PROJECT ID
SR 500	BREVARD	11072 - WO #1

DRAINAGE STRUCTURES

SHEET NO.
12





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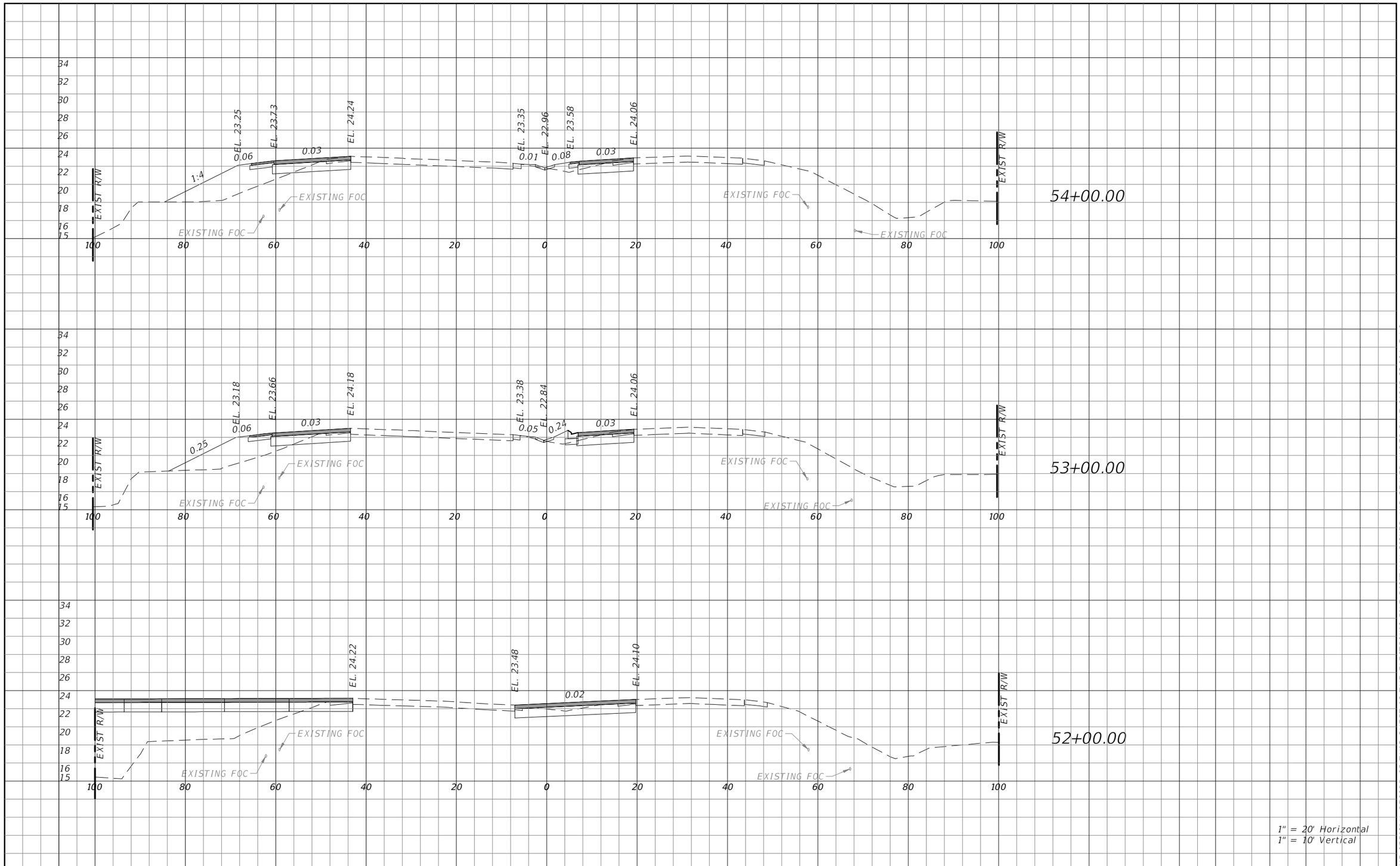
DRIVEWAY IMPROVEMENTS FOR BREVARD COUNTY
SOLID WASTE MANAGEMENT FACILITY

ROAD NO.	COUNTY	PROJECT ID
SR 500	BREVARD	11072 - WO #1

CROSS SECTIONS

SHEET NO. 16



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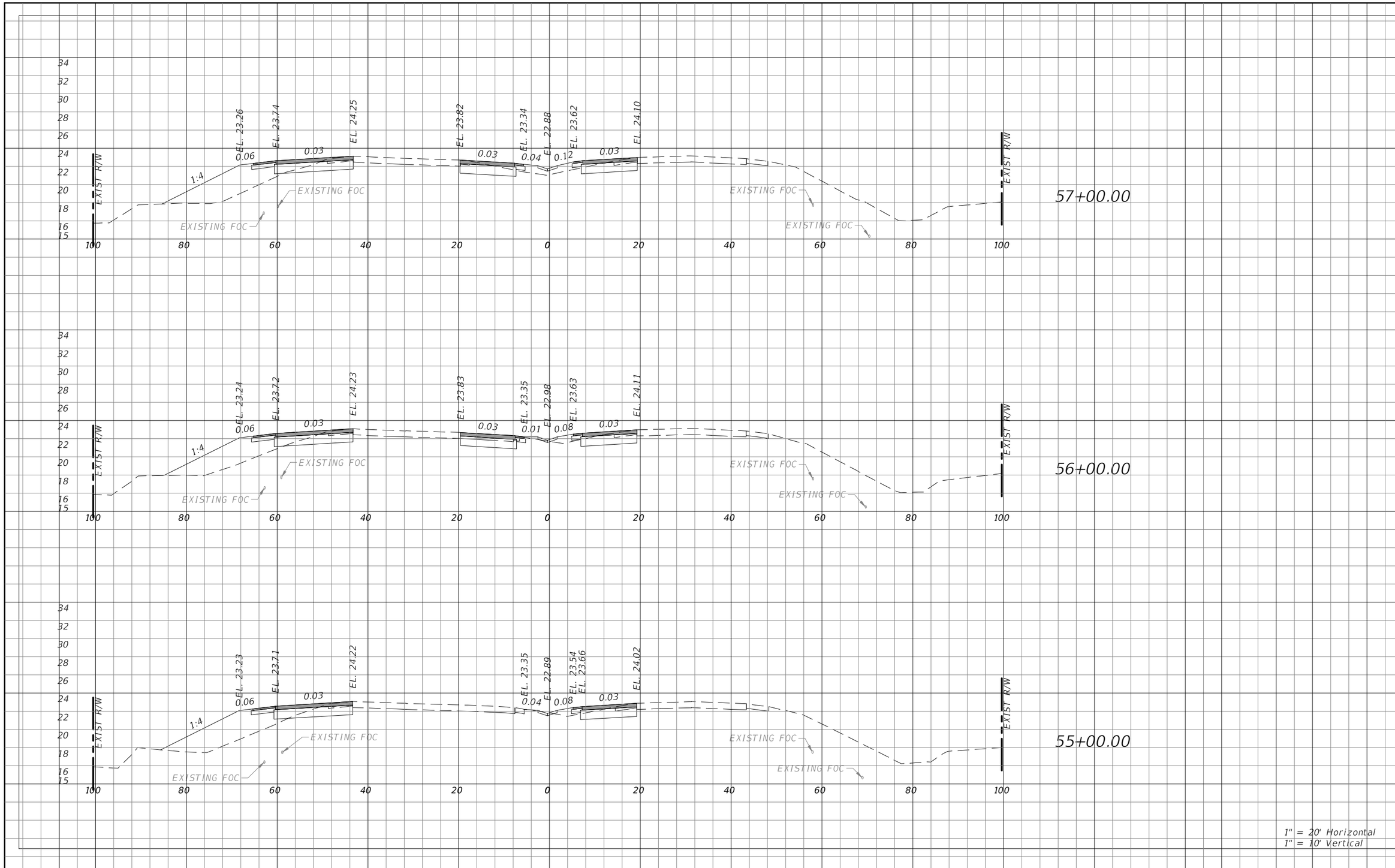
CROSS SECTIONS

SHEET NO. 17



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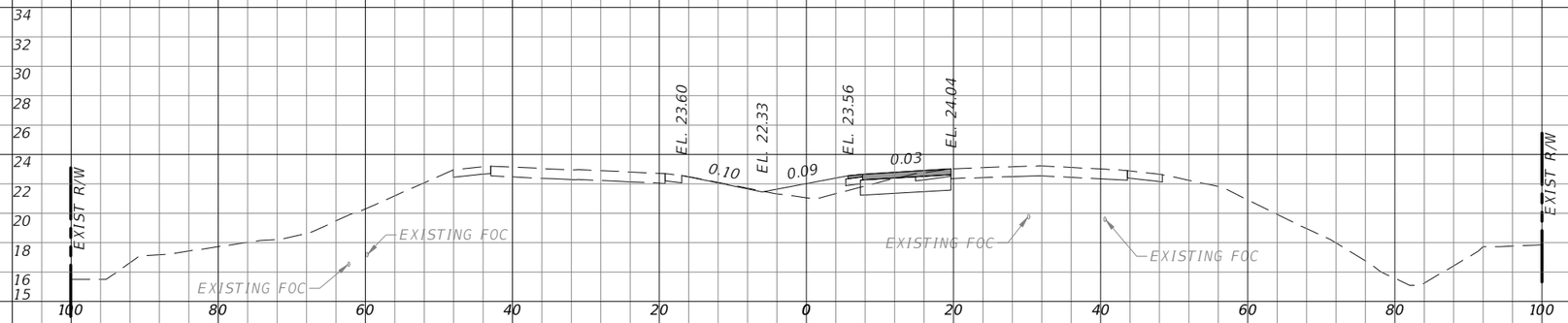
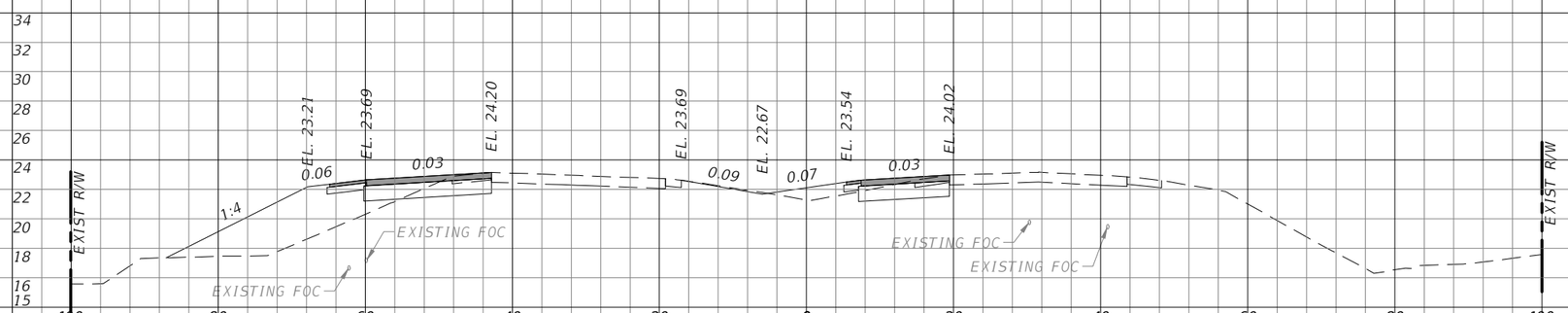
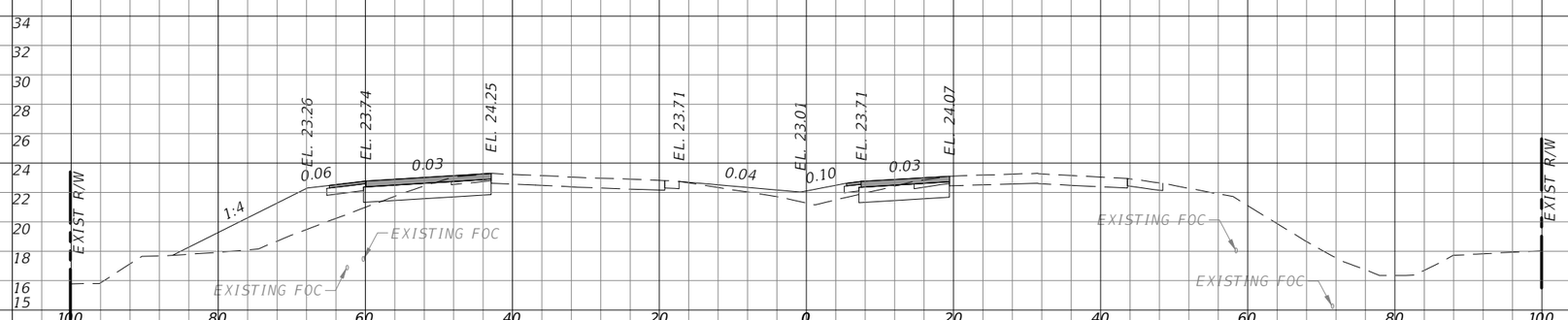
SR 500	BREVARD	11072 - WO #1

CROSS SECTIONS

SHEET NO. 18







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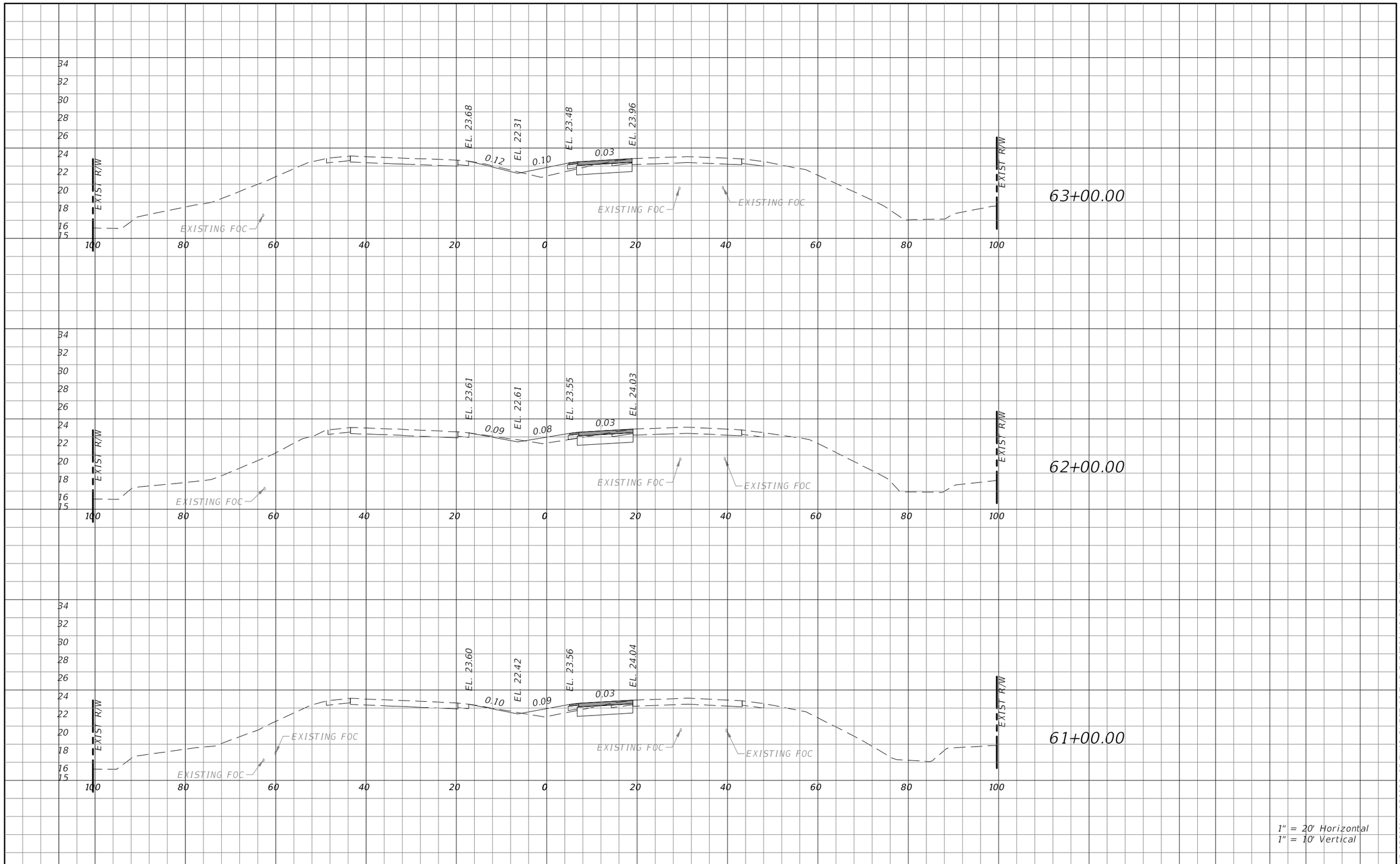
ROAD NO.	COUNTY	PROJECT ID
SR 500	BREVARD	11072 - WO #1

CROSS SECTIONS

SHEET NO. 19



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SR 500	BREVARD	11072 - WO #1

CROSS SECTIONS

SHEET NO. 20

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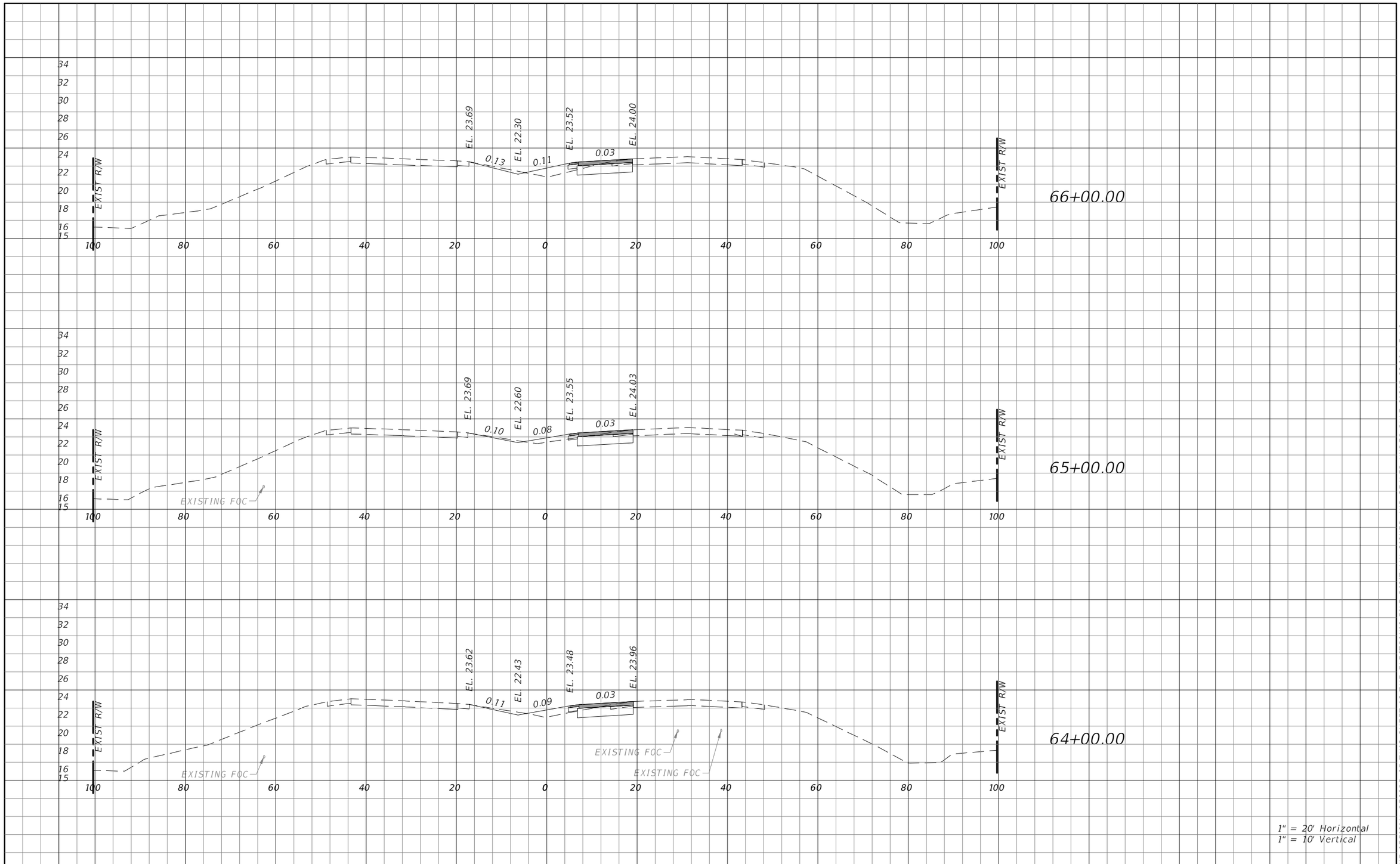

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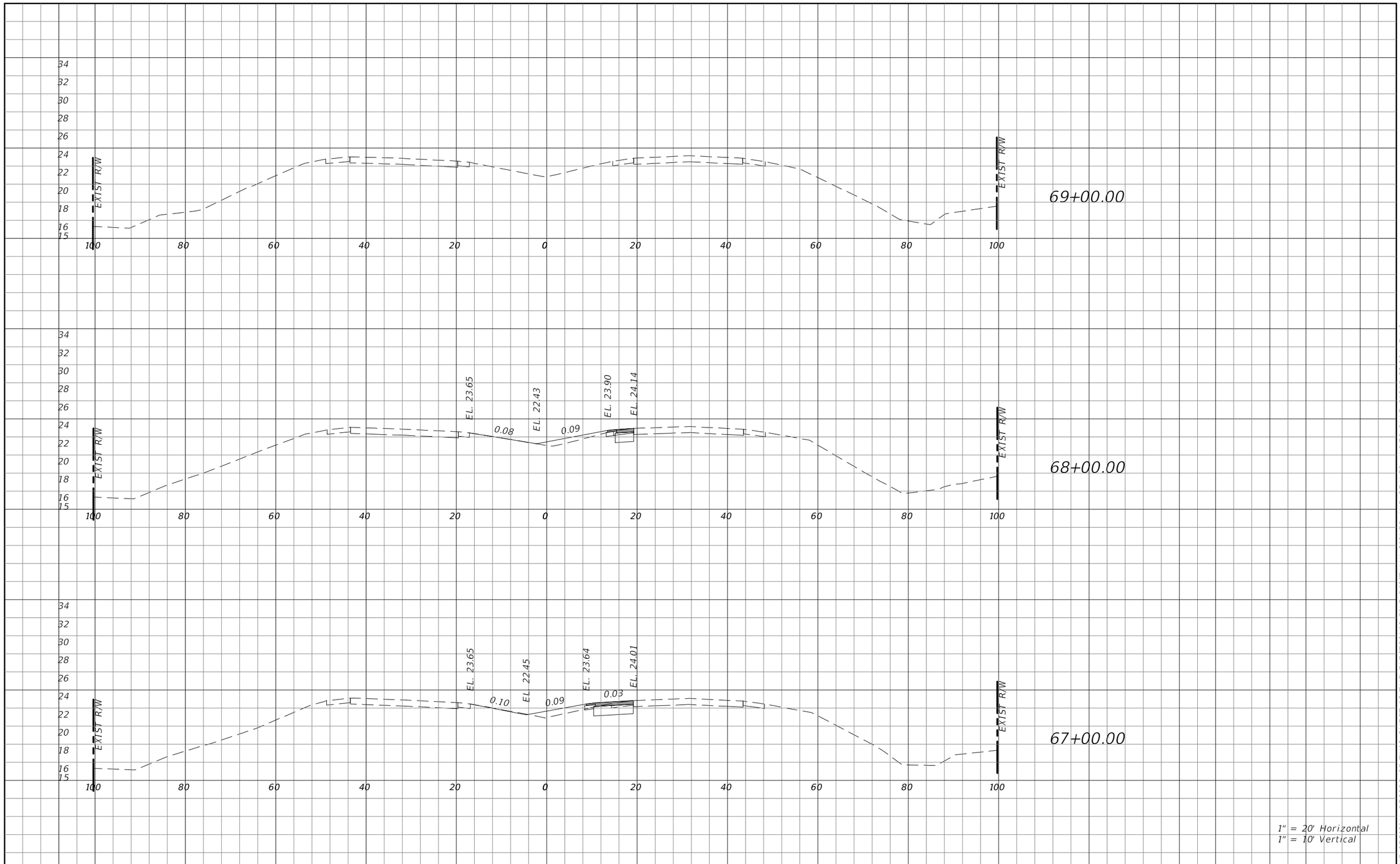
ROAD NO.	COUNTY	PROJECT ID
SR 500	BREVARD	11072 - WO #1

CROSS SECTIONS

SHEET NO. 21



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ROAD NO.	COUNTY	PROJECT ID
SR 500	BREVARD	11072 - W0 #1

CROSS SECTIONS

SHEET NO. 16

1.0 SITE DESCRIPTION:

1.A PROJECT NAME AND LOCATION:

BREVARD COUNTY SOLID WASTE MANAGEMENT FACILITY
CITY OF MELBOURNE
BREVARD COUNTY, FL

1.B PROJECT OWNER AND ADDRESS:

BREVARD COUNTY BOARD OF COUNTY COMMISSIONERS
2725 JUDGE FRAN JAMIESON WAY
MELBOURNE, FL 32940

1.C NATURE OF CONSTRUCTION ACTIVITY:

THE PROJECT CONSISTS OF ROADWAY IMPROVEMENTS ALONG SR 500 / US 192 TO PROVIDE ACCESS TO AND FROM THE PROPOSED SOLID WASTE MANAGEMENT FACILITY. IMPROVEMENTS CONSIST OF RECONSTRUCTING THE EXISTING MEDIAN NOSE TO ALLOW A FULL ACCESS OPENING FOR BOTH EAST BOUND AND WEST BOUND TRAVEL MOVEMENTS. THE CONSTRUCTION OF A MEDIAN DITCH WITH NEW STORM PIPE, AND STRUCTURES AS WELL AS THE CONSTRUCTION OF PAVED ROADWAY SHOULDERS, A RIGHT TURN LANE INTO THE PROPOSED SOLID WASTE MANAGEMENT FACILITY, AN ACCELERATION LANE AND A DRIVEWAY.

1.D SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING AS NECESSARY FOR INSTALLATION OF CONTROLS, BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

1. CLEARING AND GRUBBING
2. INITIAL EARTHWORK FOR DITCH CONSTRUCTION
3. STORM DRAIN AND MEDIAN CONSTRUCTION
4. ROADWAY AND SHOULDER CONSTRUCTION
5. DRIVEWAY CONSTRUCTION

1.E AREA ESTIMATES:

TOTAL PROJECT AREA: 2.806 ACRES

1.F SOILS DATA:

THE TYPES OF SOILS ENCOUNTERED ARE CLASSIFIED ACCORDING TO THE NATIONAL RESOURCE CONSERVATION SERVICE SOILS SURVEY FOR BREVARD COUNTY AND ARE LISTED IN THE FOLLOWING TABLE:

SOIL NO.	SOIL NAME	HYDROLOGIC GROUP
19	RIVIERA SAND	C/D
23	FLORIDANA SAND	B/D

1.G ULTIMATE RECEIVING WATERS:

ST. JOHNS RIVER WEST OF SAWGRASS LAKE (WBID# 28936)

1.H RUNOFF INFORMATION:

UNDER PRESENT CONDITIONS, STORMWATER RUNOFF WITHIN THE MAJORITY OF THE PROJECT CORRIDOR SHEET FLOWS INTO EXISTING INLETS LOCATED WITHIN THE MEDIAN, WHICH CONVEYS RUNOFF TO AN EXISTING STORMWATER MANAGEMENT FACILITY (WET DETENTION POND 2A).

1.I SITE MAP:

THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS.

2.0 CONTROLS:

2.A EROSION AND SEDIMENT CONTROLS:

BEST MANAGEMENT PRACTICES (BMPs) AND MEASURES SHALL BE IMPLEMENTED AT THE CONSTRUCTION SITE FOR ALL MAJOR SOIL DISTURBING ACTIVITIES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORMWATER RUNOFF. THE CONTRACTOR IS RESPONSIBLE FOR PLACING AND MAINTAINING THESE CONTROL METHODS AS SHOWN AND AS REQUIRED. AS WORK PROGRESSES, THE CONTRACTOR SHALL MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATIONS, CHANGES IN CONSTRUCTION ACTIVITIES, AND THE NEED FOR BETTER PRACTICES. THE CONTRACTOR SHALL ALSO PROVIDE EROSION PROTECTION AS REQUIRED BY LOCAL, STATE AND FEDERAL LAW.

2.B STABILIZATION PRACTICES:

THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

TEMPORARY STABILIZATION:
* ARTIFICIAL COVERINGS IN ACCORDANCE WITH SPECIFICATION SECTION 104.
* TURF AND SOD IN ACCORDANCE WITH SPECIFICATION SECTION 104.

PERMANENT STABILIZATION:
* ASPHALT OR CONCRETE SURFACE.
* SOD IN ACCORDANCE WITH SPECIFICATION SECTION 570.

2.C STRUCTURAL PRACTICES:

SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

TEMPORARY:
* SEDIMENT BARRIERS IN ACCORDANCE WITH THE CONSTRUCTION DETAILS AND SPECIFICATION SECTION 104.
* INLET PROTECTION IN ACCORDANCE WITH FDEP EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL. INLET PROTECTION DEVICES SHALL BE INSTALLED ON ALL PROPOSED STORM INLETS, AND INSTALLED ON ANY EXISTING STORM INLETS THAT MAY BE IMPACTED WITH SEDIMENT LADEN RUNOFF ORIGINATING FROM THE PROJECT AREA.

PERMANENT:
* SOD.
* SODDED SWALES.

2.D STORMWATER MANAGEMENT:

IN PROPOSED CONDITIONS, STORMWATER RUNOFF WILL BE CONVEYED THROUGH PROPOSED AND EXISTING INLETS AND PIPES LOCATED WITHIN THE MEDIAN THAT IS THEN PIPED TO AN EXISTING WET DETENTION POND.

3.0 OTHER CONTROLS:

3.A WASTE DISPOSAL:

THE CONTRACTOR SHALL PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO THE WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

* PROVIDING LITTER CONTROL AND COLLECTION WITHIN THE PROJECT AREA DURING CONSTRUCTION ACTIVITIES.

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

* DISPOSING OF SOLID MATERIALS, INCLUDING BUILDING AND CONSTRUCTION MATERIALS, OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS OR WETLANDS, AND IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. NO WASTE MATERIALS SHALL BE BURIED ON SITE.

* SANITARY WASTE SHALL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. THE SUPERINTENDENT SHALL COORDINATE FOR COLLECTION OF THE SANITARY WASTE TO PREVENT SPILLAGE ONTO THE SITE.

3.B OFF-SITE VEHICLE TRACKING & DUST CONTROL:

THE CONTRACTOR SHALL MINIMIZE OFF-SITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

* COVERING LOADED HAUL TRUCKS WITH TARPAULINS.
* REMOVING EXCESS DIRE FROM ROADS DAILY.
* STABILIZING CONSTRUCTION ENTRANCES ACCORDING TO THE FDEP EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL.
* USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.

3.C FERTILIZERS AND PESTICIDES:

THE CONTRACTOR SHALL APPLY FERTILIZERS AND PESTICIDES IN COMPLIANCE WITH THE PROCEDURES DESCRIBED IN THE APPLICABLE SUBSECTIONS OF SECTION 982 OF THE SPECIFICATIONS.

3.D TOXIC SUBSTANCES:

THE CONTRACTOR SHALL MAINTAIN A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.

3.E DEWATERING CONTROLS:

THE CONTRACTOR SHALL IMPLEMENT SITE SPECIFIC CONTROL MEASURES OR BMPs TO MINIMIZE OR ELIMINATE POLLUTANT DISCHARGES RESULTING FROM DEWATERING OPERATION. THE CONTROL MEASURES OR BMPs MAY INCLUDE THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

* SEDIMENT TRAPS AND BASINS
* DEWATERING TANKS AND FILTERS

4.0 MAINTENANCE:

THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL AT A MINIMUM COMPLY WITH THE FOLLOWING:

* SILT FENCE: MAINTAIN PER SPECIFICATION SECTION 104. THE CONTRACTOR SHOULD ANTICIPATE REPLACING SILT FENCE ON 12 MONTH INTERVALS.
* INLET PROTECTION: REMOVE SEDIMENT PER MANUFACTURER'S RECOMMENDATIONS OR WHEN WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS.

5.0 INSPECTIONS:

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

* POINTS OF DISCHARGE TO WATERS OF THE UNITS STATES.
* POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM DRAIN SYSTEMS.
* DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
* AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
* STRUCTURAL CONTROLS
* STORMWATER MANAGEMENT SYSTEMS
* LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE

THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER.

IF INSPECTION INDICATE THAT INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER.

6.0 NON-STORMWATER DISCHARGES:

THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED POTENTIAL NON-STORMWATER DISCHARGES. THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION OF THESE NON-STORMWATER DISCHARGES. IF THE CONTRACTOR ENCOUNTERS CONTAMINATED SOIL OR GROUNDWATER, CONTACT THE VOLUSIA COUNTY HAZARDOUS WASTE COORDINATOR, HECTOR VALLE (386-736-5927, EXT 12074).

ALLOWABLE NON-STORMWATER DISCHARGES INCLUDE THE FOLLOWING:

* DISCHARGES FROM FIREFIGHTING ACTIVITIES.
* FIRE HYDRANT FLUSHINGS.
* WATERS WITHOUT DETERGENTS USED TO SPRAY OFF LOOSE SOLIDS FROM VEHICLES.
* WATERS USED TO CONTROL DUST.
* POTABLE WATER SOURCES SUCH AS WATERLINE FLUSHINGS.
* LANDSCAPE IRRIGATION WATER AND DRAINAGE.
* ROUTINE EXTERNAL BUILDING WASHDOWN.
* PAVEMENT WASHWATERS THAT DO NOT CONTAIN DETERGENTS, LEAKS, SPILLS OF TOXIC OR HAZARDOUS MATERIALS.
* AIR CONDITIONING CONDENSATE.
* SPRING WATER.
* FOUNDATION OR FOOTING DRAIN FLOWS.
* NON-CONTAMINATED GROUND WATER ASSOCIATED WITH DEWATERING ACTIVITIES.

PROHIBITED NON-STORMWATER DISCHARGES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

* WASTEWATER FROM CONCRETE WASHOUT
* WASTEWATER FROM WASHOUT OR CLEANOUT OF STUCCO, PAINT, FROM RELEASE OF OILS, CURING COMPOUNDS, AND OTHER CONSTRUCTION MATERIALS.
* FUELS, OILS, OR OTHER POLLUTANTS FROM VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE.
* SOAPS, DETERGENTS, SOLVENTS, OR OTHER CLEANERS.
* HAZARDOUS SUBSTANCES OR OIL RESULTING FROM AN ON-SITE SPILL.
* SOLID MATERIALS, INCLUDING BUILDING MATERIALS

CONTRACTOR'S AND SUBCONTRACTOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN.

NAME	TITLE	COMPANY NAME, ADDRESS, AND PHONE NUMBER	DATE

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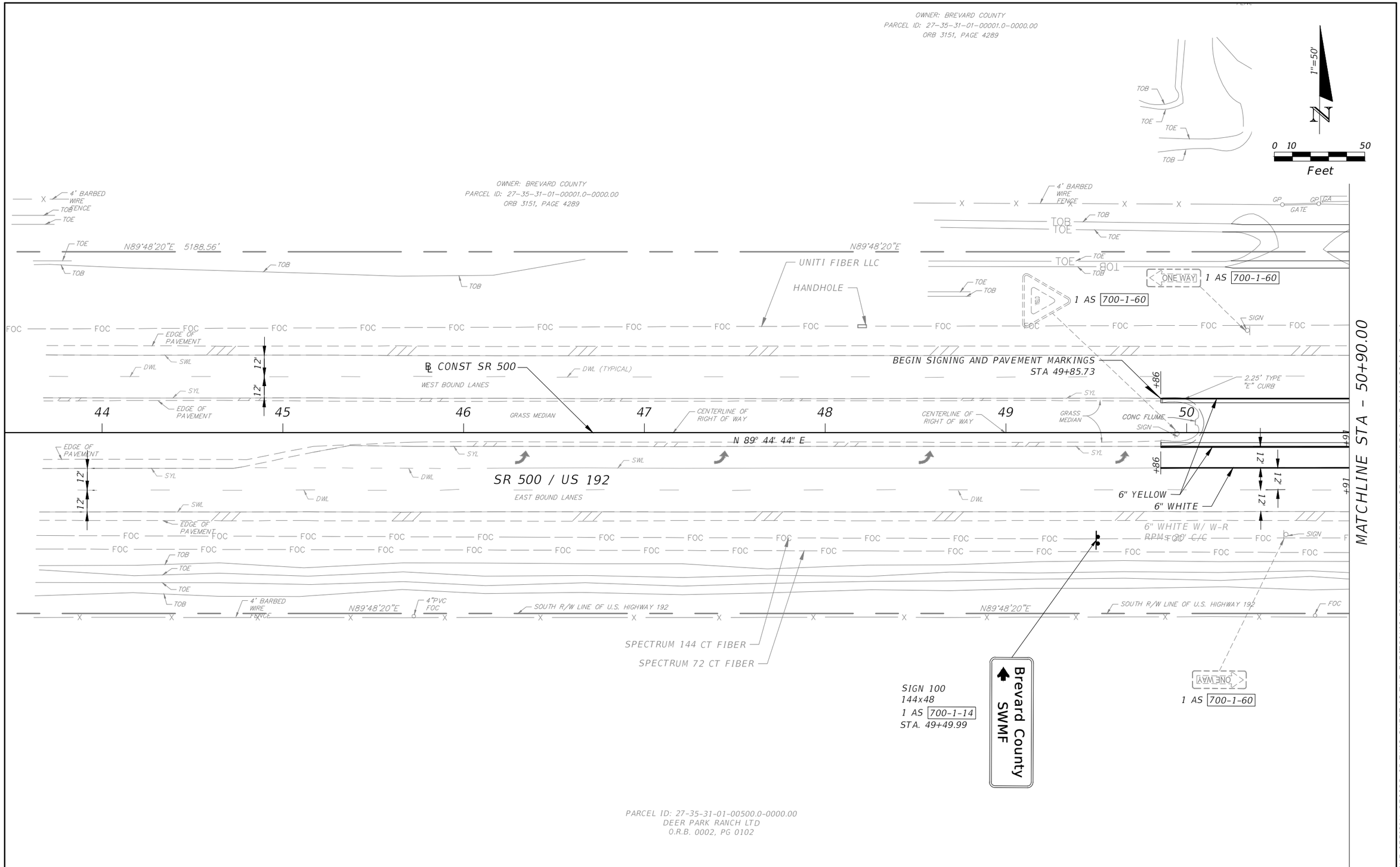

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TEDS
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Phone 386.753.0558 80 Spring Vista Drive
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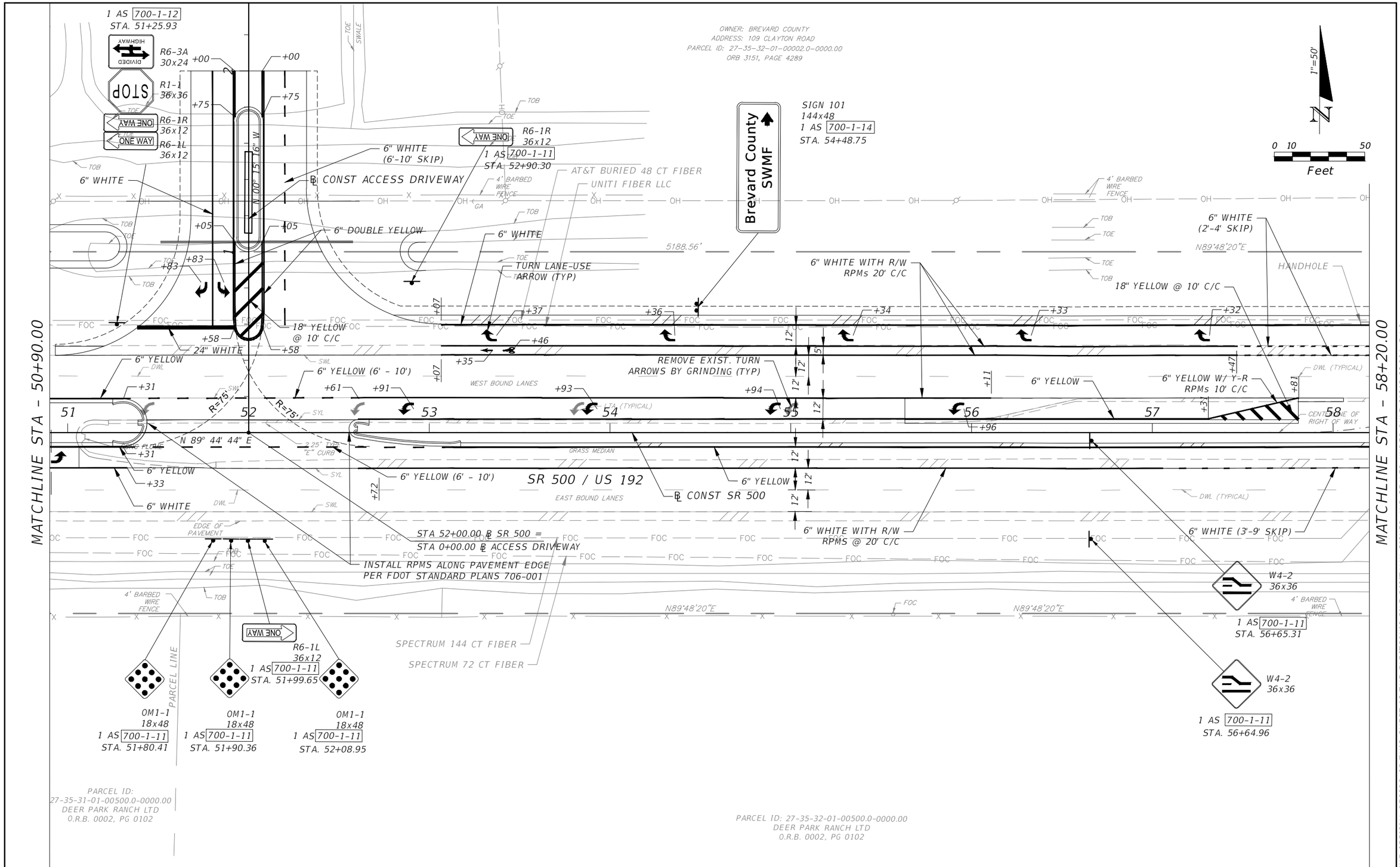
DRIVEWAY IMPROVEMENTS FOR BREVARD COUNTY SOLID WASTE MANAGEMENT FACILITY

ROAD NO.	COUNTY	PROJECT ID
SR 500	BREVARD	11072 - WO #1

SIGNING AND PAVEMENT MARKING PLAN

SHEET NO. 24



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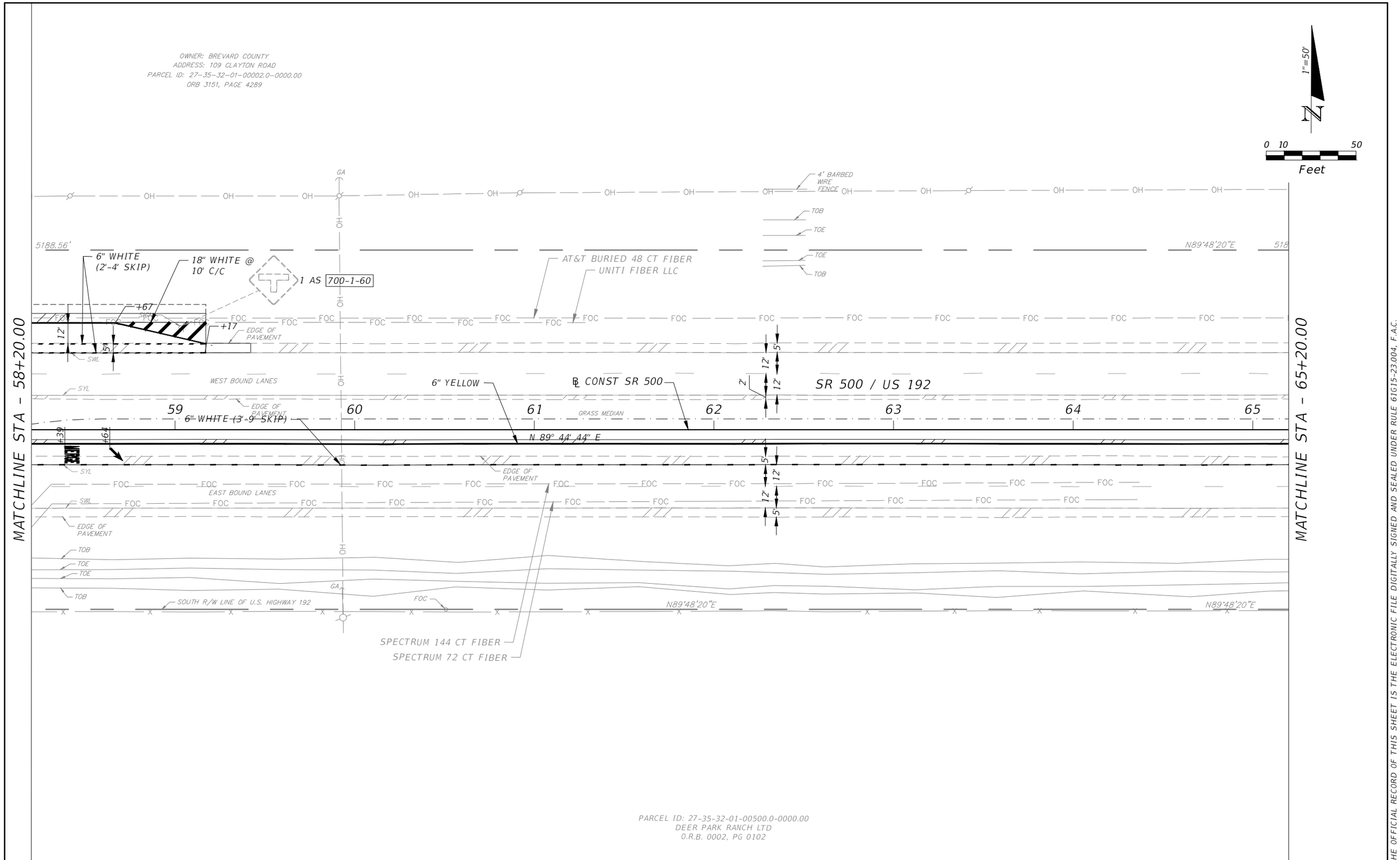
SOLID WASTE MANAGEMENT FACILITY

ROAD NO.	COUNTY	PROJECT ID
SR 500	BREVARD	11072 - WO #1

SIGNING AND PAVEMENT MARKING PLAN

SHEET NO.
25

Mike Thompson 5/27/2021 1:01:49 PM Z:\2017 Projects\11072 (Brevard County Solid Waste Cont PE_S2Li)\WO #01 - Brevard County Landfill - US 192 Roadway Improvements\CAD\PLANS\21 SIGNING AND PAVEMENT MARKING PLAN.dwg



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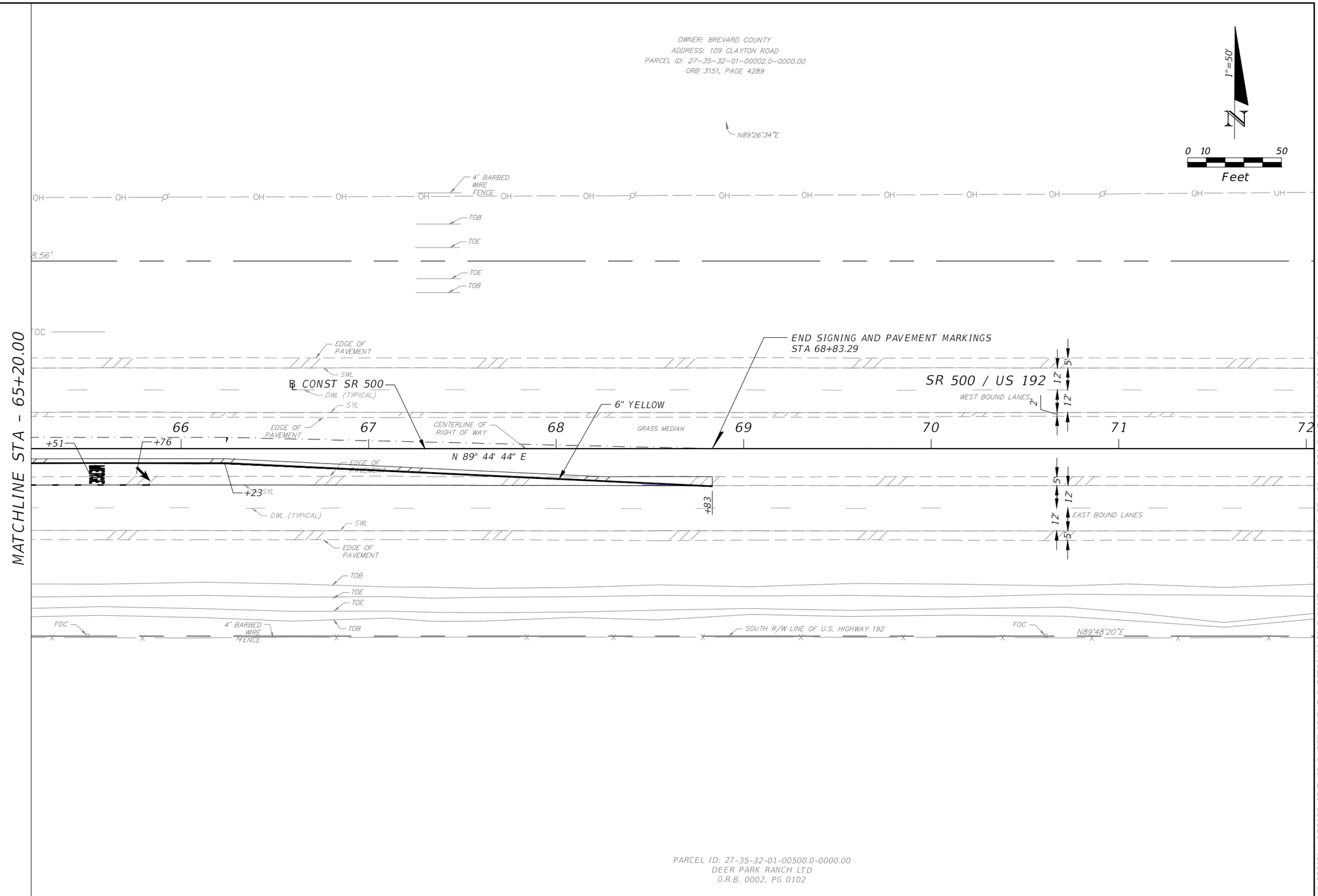
SR 500	BREVARD	11072 - WO #1

SIGNING AND PAVEMENT MARKING PLAN

SHEET NO. 24



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ROAD NO.	COUNTY	PROJECT ID
SR 500	BREVARD	11072 - WO #1

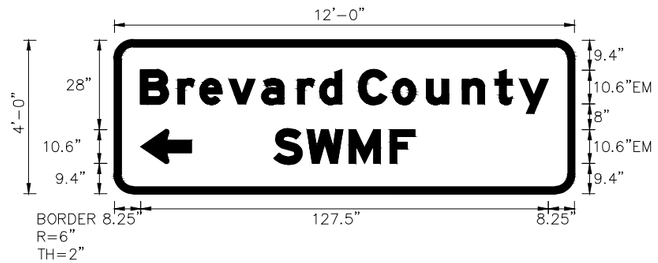
SIGNING AND PAVEMENT MARKING PLAN

SHEET NO. 27

SIGN NAME	100	QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER		_____	none
WIDTH	12'-0"	WIDTH	2"	_____	
HEIGHT	4'-0"	RADII	6"	_____	
LEGEND	White	COLOR	White	_____	
COLOR	Green			_____	

SYMBOL(S)	ANGLE	X	Y	WID	HT
ARUP	90	8.2	9.4	10.6	15.9

SIGN NUMBER		CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



Panel Style: guide_exp_supplemental.ssi
M.U.T.C.D.: 2003 Edition

NO. OF LIGHT FIXTURES ___ FIXTURE SPACING _____ PHOTOMETRIC CURVE _____ WATT ____ VOLTAGE ____

COPY		B	r	e	v	a	r	d		C	o	u	n	t	y		L							
SPACE	8.2	11.6	6.9	9.1	10.3	11.2	6.9	7	5.3	10.6	10.5	11.2	10.2	7.7	9	8.2	127.5							
COPY		S	W	M	F		L																	
SPACE	50.1	10.2	13.1	12.8	7.8	50	44																	
COPY																								
SPACE																								
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SIGN NAME		QTY		SIGN NUMBER	STATION(S)
PANEL		BORDER		_____	
WIDTH		WIDTH		_____	
HEIGHT		RADII		_____	
LEGEND		COLOR		_____	
COLOR				_____	

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER		CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH

NO. OF LIGHT FIXTURES ___ FIXTURE SPACING _____ PHOTOMETRIC CURVE _____ WATT ____ VOLTAGE ____

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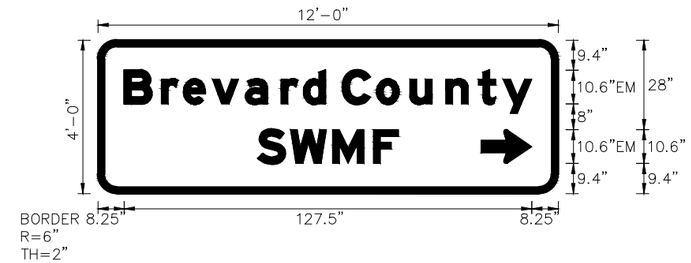
SIGN NAME	101	QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER		_____	none
WIDTH	12'-0"	WIDTH	2"	_____	
HEIGHT	4'-0"	RADII	6"	_____	
LEGEND	White	COLOR	White	_____	
COLOR	Green			_____	

SYMBOL(S)	ANGLE	X	Y	WID	HT
ARUP	270	119.9	9.4	10.6	15.9

SIGN NUMBER		CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



Panel Style: guide_exp_supplemental.ssi
M.U.T.C.D.: 2003 Edition

NO. OF LIGHT FIXTURES ___ FIXTURE SPACING _____ PHOTOMETRIC CURVE _____ WATT ____ VOLTAGE ____

COPY		B	r	e	v	a	r	d		C	o	u	n	t	y		L							
SPACE	8.2	11.6	6.9	9.1	10.3	11.2	6.9	7	5.3	10.6	10.5	11.2	10.2	7.7	9	8.2	127.5							
COPY		S	W	M	F		L																	
SPACE	50.1	10.2	13.1	12.8	7.8	50	44																	
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SIGN NAME		QTY		SIGN NUMBER	STATION(S)
PANEL		BORDER		_____	
WIDTH		WIDTH		_____	
HEIGHT		RADII		_____	
LEGEND		COLOR		_____	
COLOR				_____	

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER		CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH

NO. OF LIGHT FIXTURES ___ FIXTURE SPACING _____ PHOTOMETRIC CURVE _____ WATT ____ VOLTAGE ____

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MIKAL REED HALE, P.E. #58048
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DRIVEWAY IMPROVEMENTS FOR BREVARD COUNTY SOLID WASTE MANAGEMENT FACILITY

ROAD NO.	COUNTY	PROJECT ID
SR 500	BREVARD	11072 - WO #1

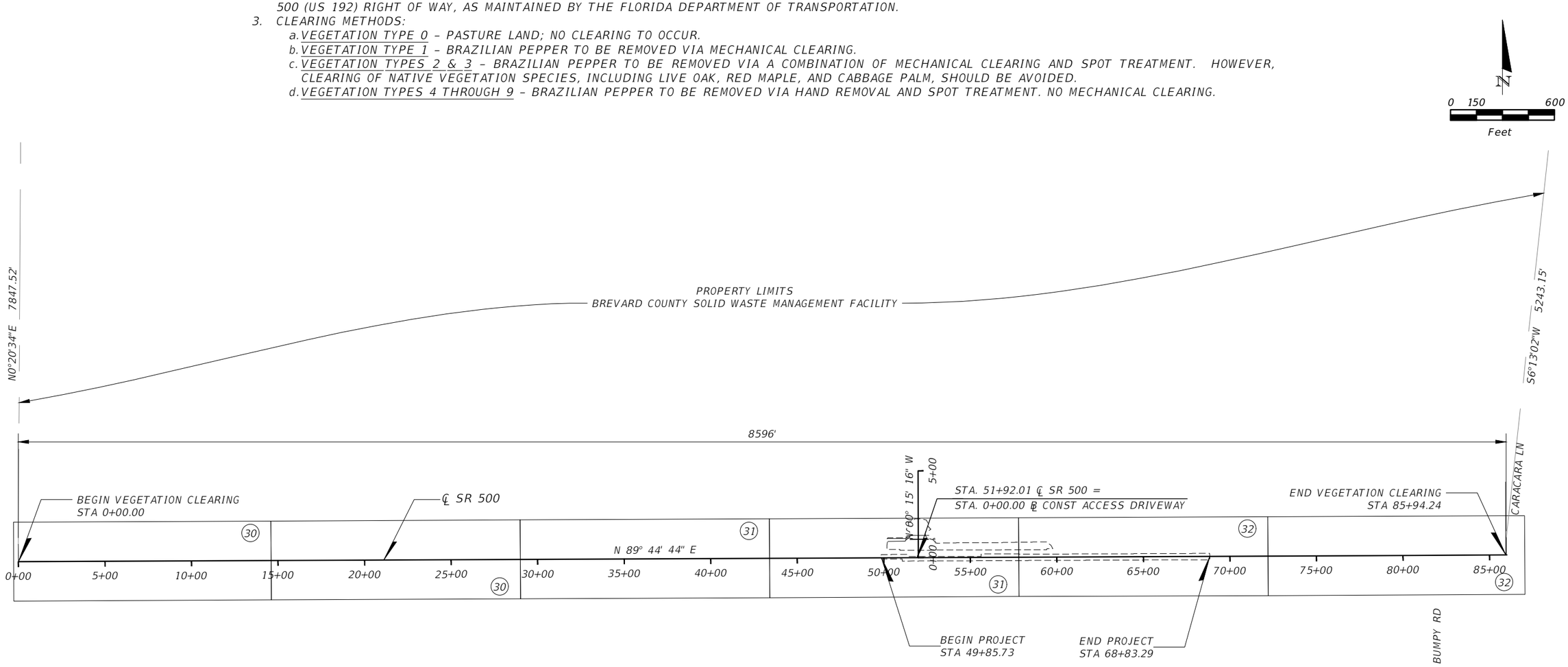
GUIDE SIGN WORKSHEET

SHEET NO. 28

	Vegetation Type 0		Vegetation Type 1		Vegetation Type 2		Vegetation Type 3		Vegetation Type 4		Vegetation Type 5		Vegetation Type 6		Vegetation Type 7		Vegetation Type 8		Vegetation Type 9	
Desirable Canopy Species	**Avg. DBH (in.)**	**Avg. Height (ft)**	**Avg. DBH (in.)**	**Avg. Height (ft)**	**Avg. DBH (in.)**	**Avg. Height (ft)**	**Avg. DBH (in.)**	**Avg. Height (ft)**	**Avg. DBH (in.)**	**Avg. Height (ft)**	**Avg. DBH (in.)**	**Avg. Height (ft)**	**Avg. DBH (in.)**	**Avg. Height (ft)**	**Avg. DBH (in.)**	**Avg. Height (ft)**	**Avg. DBH (in.)**	**Avg. Height (ft)**	**Avg. DBH (in.)**	**Avg. Height (ft)**
Cabbage Palm	25	20			25	20	25	20	25	20	25	20	25	15			25	20	25	25
Laurel Oak															20-25	20-35			15	25
Live Oak	30	30			35	30	25	30	15-35	35	20-35	30			25-35	20-30			30	35
Red Maple							20	35							20	35				
Red Cedar															20	15				
Slash Pine											25-30	35								
American Elm															15-20	20				
Pond Cypress																	30-35	15-35		
Notes	Improved pasture with scattered live oak and cabbage palm both at less than 5%.		Dominated by 100% Brazilian pepper.		Dominated by Brazilian pepper with scattered cabbage palm (5%) and live oak (10%).		Dominated by Brazilian pepper with scattered cabbage palm (10%), red maple (5%), and live oak (10%).		Dominated by cabbage palm (65%)with scattered live oaks (35%) throughout. Minor amounts of Brazilian pepper (<5%).		Dominated by cabbage palm (75%) with a smaller component of live oak (10%) and slash pine (15%). Minor amounts of Brazilian pepper (<5%).		Dominated by Brazilian pepper (65%) with scattered cabbage palm (35%).		Canopy dominated by live oak (55%) and cabbage palm (25%). Scattered laurel oak (10%), red maple (5%), red cedar (<5%), and American elm (5%).		Dominated by pond cypress (45%)with scattered cabbage palm (20%) throughout and understory of Brazilian pepper (35%).		Dominated by cabbage palm (65%) with scattered live (15%) oak and laurel oak (5%). Minor amounts of Brazilian pepper (<5%).	

VEGETATION CLEARING NOTES

1. IN ACCORDANCE WITH THE CONDITIONS OF APPROVALS ISSUED BY OTHER AGENCIES, THE GOAL OF PROPOSED VEGETATION CLEARING IS TO ERADICATE THE BRAZILIAN PEPPERTREE (SCHINUS TEREBINTHIFOLIUS), AS AN INVASIVE NON-INDEGENOUS EXOTIC PEST PLANT, FROM THE BREVARD COUNTY SOLID WASTE MANAGEMENT FACILITY PROPERTY.
2. THE PURPOSE OF THESE VEGETATION CLEARING PLANS IS TO DELINEATE THOSE PORTIONS OF VEGETATION CLEARING THAT WILL OCCUR WITHIN THE SR 500 (US 192) RIGHT OF WAY, AS MAINTAINED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION.
3. CLEARING METHODS:
   a. VEGETATION TYPE 0 – PASTURE LAND; NO CLEARING TO OCCUR.
   b. VEGETATION TYPE 1 – BRAZILIAN PEPPER TO BE REMOVED VIA MECHANICAL CLEARING.
   c. VEGETATION TYPES 2 & 3 – BRAZILIAN PEPPER TO BE REMOVED VIA A COMBINATION OF MECHANICAL CLEARING AND SPOT TREATMENT. HOWEVER, CLEARING OF NATIVE VEGETATION SPECIES, INCLUDING LIVE OAK, RED MAPLE, AND CABBAGE PALM, SHOULD BE AVOIDED.
   d. VEGETATION TYPES 4 THROUGH 9 – BRAZILIAN PEPPER TO BE REMOVED VIA HAND REMOVAL AND SPOT TREATMENT. NO MECHANICAL CLEARING.



VEGETATION CLEARING LAYOUT

REVISIONS			
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DRIVEWAY IMPROVEMENTS FOR BREVARD COUNTY SOLID WASTE MANAGEMENT FACILITY

ROAD NO.	COUNTY	PROJECT ID
SR 500	BREVARD	11072 - WO #1

VEGETATION CLEARING NOTES

SHEET NO. 29

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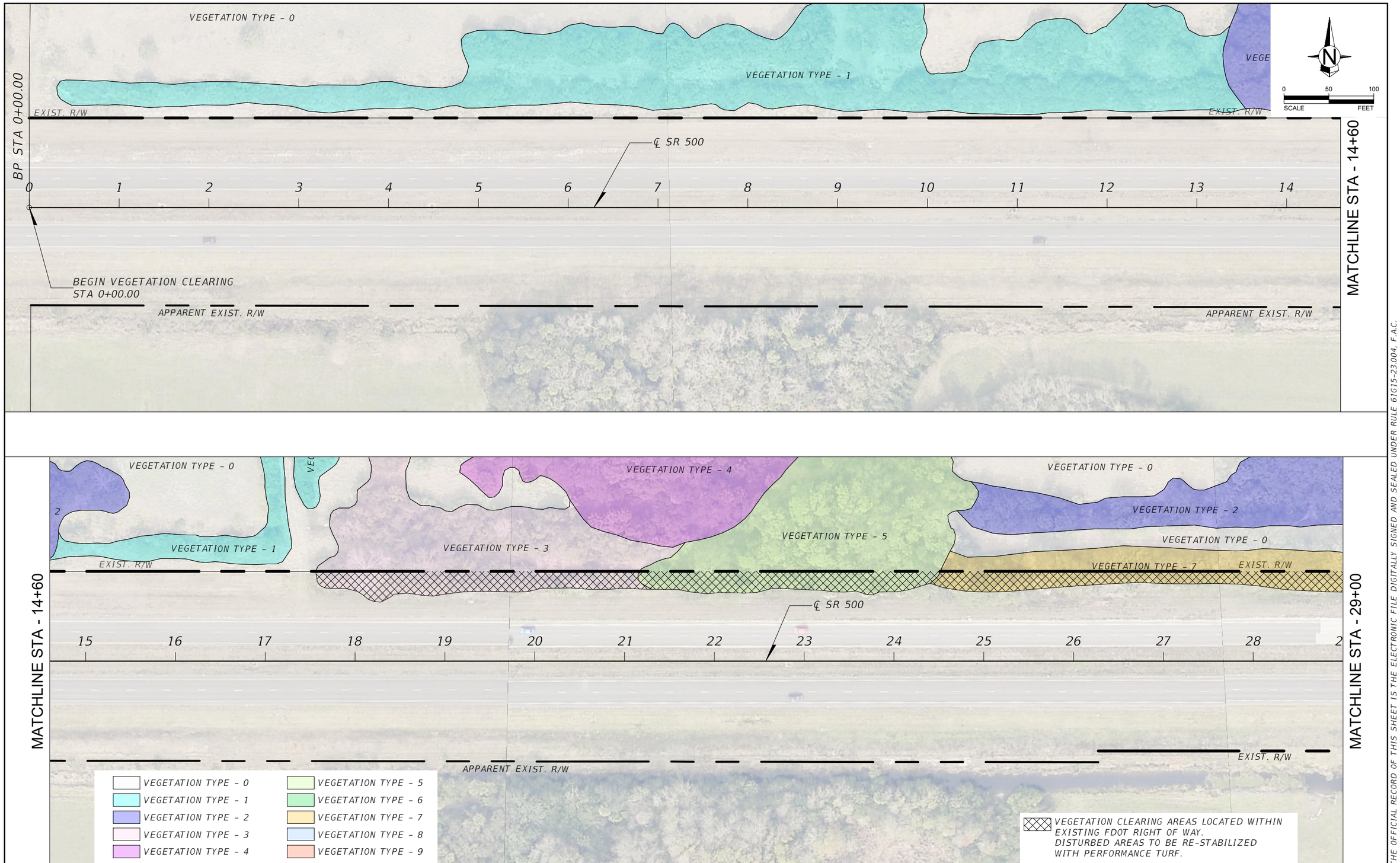

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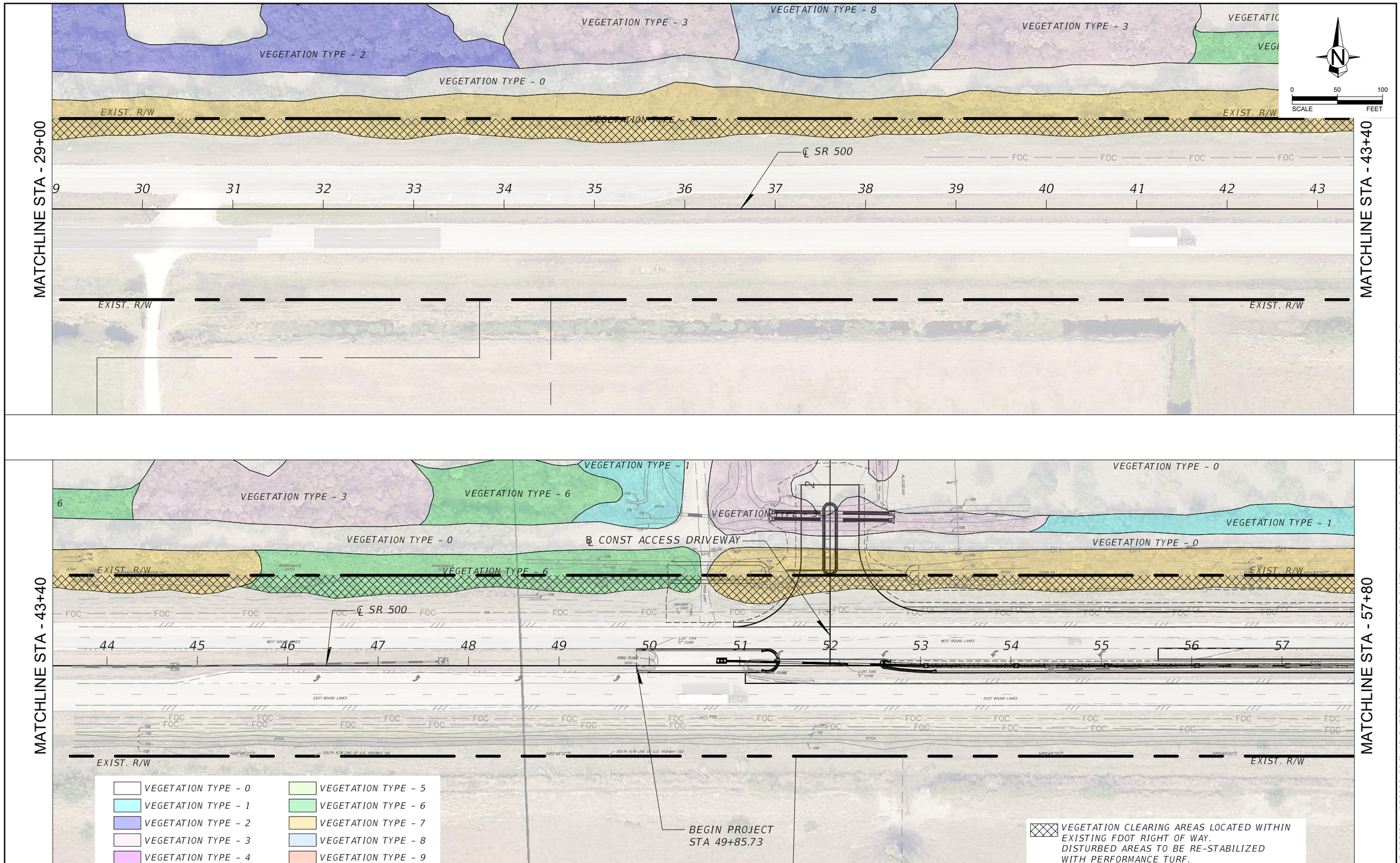
SOLID WASTE MANAGEMENT FACILITY

ROAD NO.	COUNTY	PROJECT ID
SR 500	BREVARD	11072 - WO #1

VEGETATION CLEARING PLAN

SHEET NO. 30



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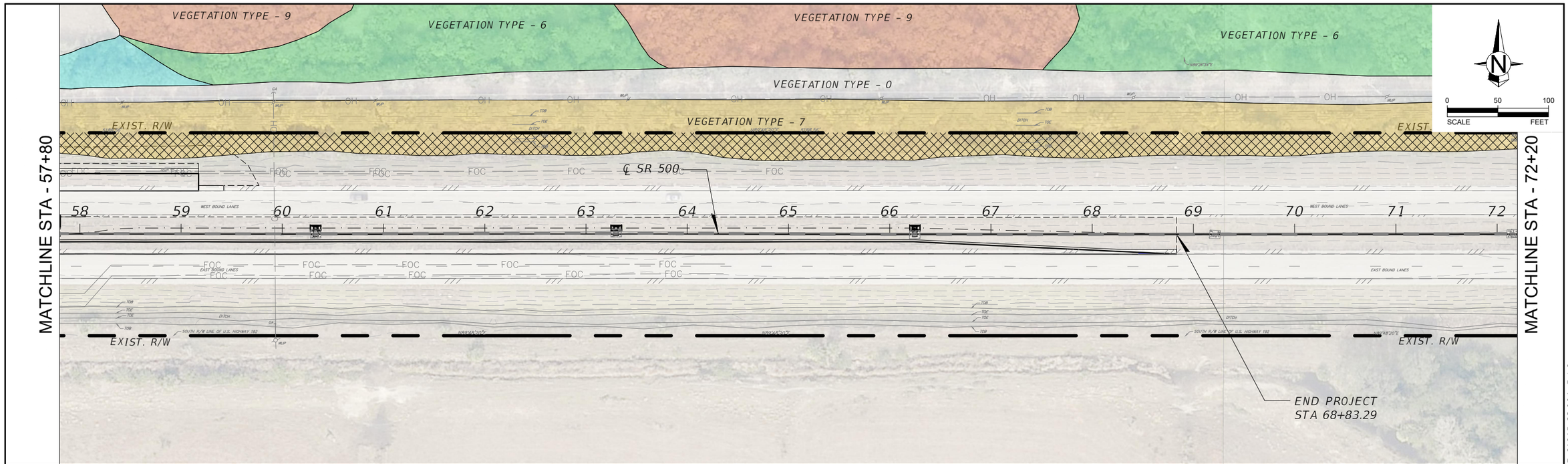
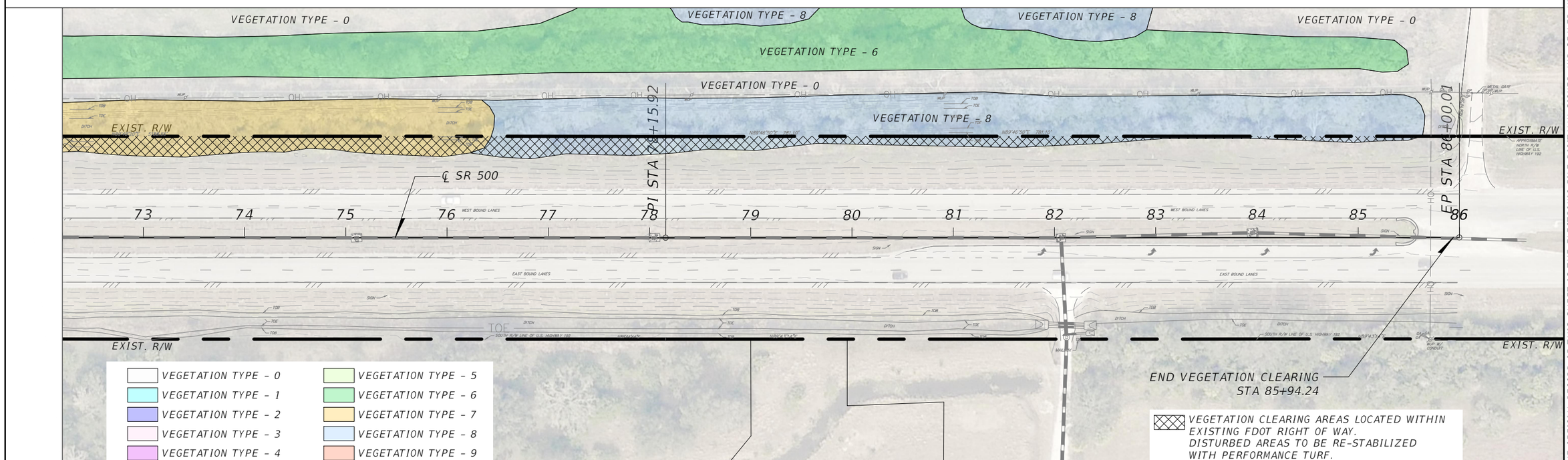
SR 500	BREVARD	11072 - WO #1

VEGETATION CLEARING PLAN

SHEET NO. 31





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VEGETATION CLEARING PLAN

SHEET NO. 30