COMPONENTS OF CONTRACT PLAN SET
LANDSCAPE PLANS

CONTRACT NO. E-2T98

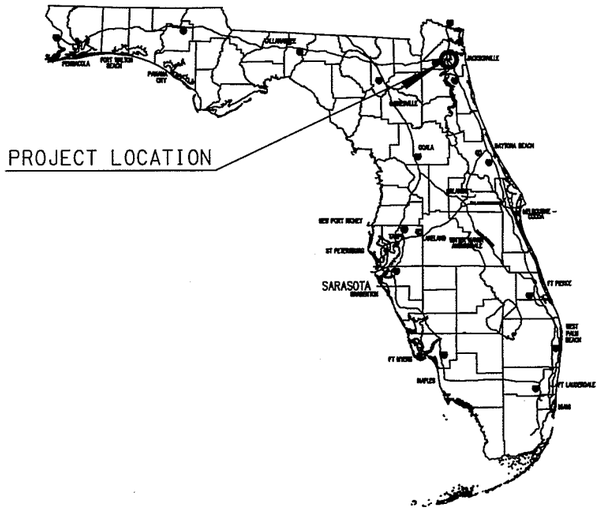
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 431955-1-52-01

DUVAL COUNTY (72190)
STATE ROAD 212 (BEACH BLVD)

LANDSCAPE PLANS



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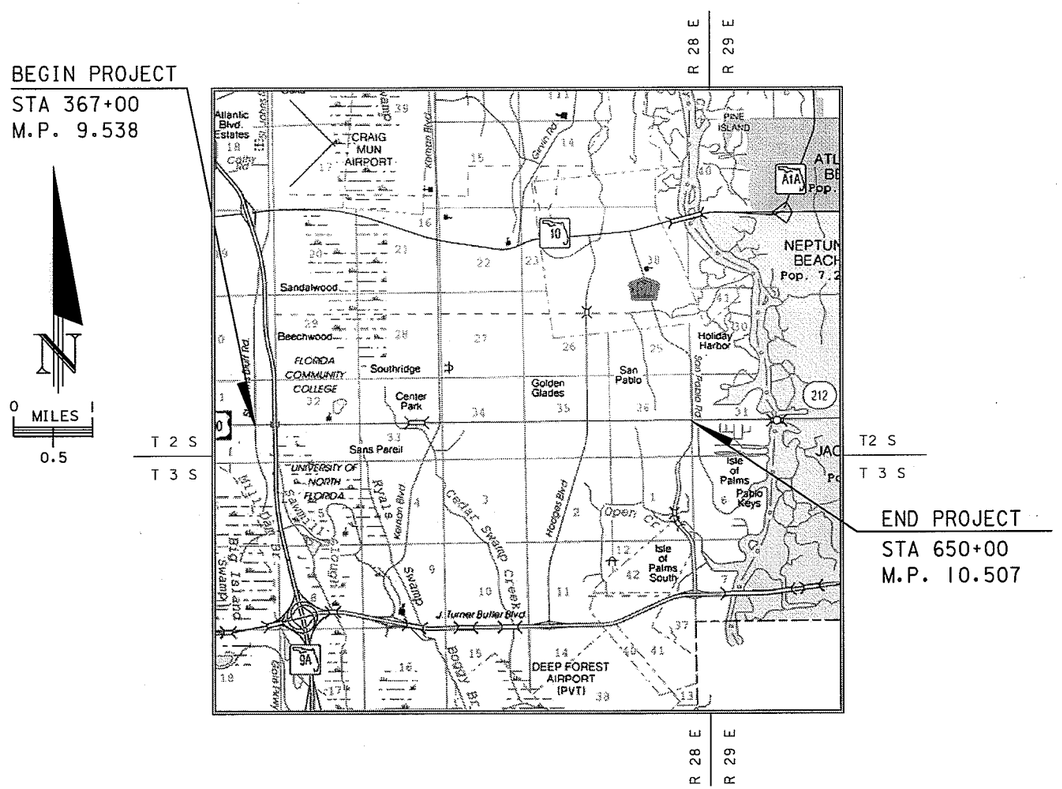
BEGIN PROJECT
STA 367+00
M.P. 9.538



END PROJECT
STA 650+00
M.P. 10.507

SUBMIT SHOP DRAWINGS TO:
DAVID W CARWLEY, RLA
7650 W COURTNEY CAMPBELL CSWY.
TAMPA, FLORIDA 33607-1462
(813) 286-1711

PLANS PREPARED BY:
URS CORPORATION SOUTHERN
7650 W COURTNEY CAMPBELL CSWY.
TAMPA, FLORIDA 33607-1462
(813) 286-1711

CERTIFICATE OF AUTHORIZATION
LCC NO. 000234
CONTRACT NO. C-4420
VENDOR NO. F592087895002

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

THIS IS A LUMP SUM PROJECT.

GOVERNING STANDARDS AND SPECIFICATIONS:

FLORIDA DEPARTMENT OF TRANSPORTATION, 2015 DESIGN STANDARDS REVISED INDEX DRAWINGS AS APPENDED HEREIN, AND 2015 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS AMENDED BY CONTRACT DOCUMENTS.

FOR DESIGN STANDARDS MODIFICATIONS CLICK ON THE "DESIGN STANDARDS" AT THE FOLLOWING WEB SITE:
HTTP://WWW.DOT.STATE.FL.US/RDDESIGN/

FOR THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION CLICK ON THE "SPECIFICATIONS" LINK AT THE FOLLOWING WEB SITE:
HTTP://WWW.DOT.STATE.FL.US/SPECIFICATIONSOFFICE/

REVISIONS

LENGTH OF PROJECT

	LN. FT.	MILES
ROADWAY	27,800	5.27
GROSS LENGTH OF PROJECT	27,800	5.27

FDOT PROJECT MANAGER: AMY WILLIAMS, PE

KEY SHEET REVISIONS

DATE	BY	DESCRIPTION

LANDSCAPE PLANS
LANDSCAPE ARCHITECT OF RECORD:
DAVID W. CRAWLEY, RLA LA#6666702

LICENSED LANDSCAPE ARCHITECT DAVID W. CRAWLEY LA#6666702 STATE OF FLORIDA
3/12/15

FISCAL YEAR	SHEET NO.
14	LD-00

03/12/2015 09:32:32 AM

FLORIDA DEPARTMENT OF TRANSPORTATION
PROPOSAL SUMMARY OF PAY ITEMS
FOR PROPOSAL: E2T98

LEAD PROJECT : 431955-1-52-01 | DISTRICT : 02 | COUNTY/SECTION : 72190000

PROJECT(S) : 43195515201 | COUNTY : DUVAL

0001 SUMMARY OF LANDSCAPE / PERIPHERAL

SPC	ALT	ITEM NUMBER	ITEM DESCRIPTION	UNIT	43195515201	QUANTITY TOTAL
		0580- 1- 2	LANDSCAPE COMPLETE- LARGE PLANTS	LS	1.000	1.000

NOTE:
1. 580-1-2 LUMP SUM CONTRACT: ALL OTHER PAY ITEM NUMBERS SHOWN IN THE CONTRACT PLANS ARE PROVIDED ONLY FOR THE PURPOSE OF DESCRIBING THE WORK TO BE PERFORMED. PAY ITEM DESCRIPTIONS ARE FOUND IN THE DEPARTMENT'S BASIS OF ESTIMATES MANUAL.

REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA6666702
3/12/15
STATE OF FLORIDA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

SUMMARY OF PAY ITEMS

SHEET NO.
LD-00A

LANDSCAPE NOTES:

1. THE EXACT LOCATION OF ALL EXISTING STRUCTURES, UNDERGROUND UTILITIES, DRAINAGE STRUCTURES, EXISTING UNDERGROUND SPRINKLERS AND PIPE MAY NOT BE AS INDICATED ON DRAWINGS. BASE FILES AND BACKGROUND INFORMATION DEPICTED ON THE PLAN SHEETS IS TAKEN FROM VARIOUS SOURCES. THE BASELINE SURVEY WAS PROVIDED BY FDOT DISTRICT TWO. A PROJECT SPECIFIC TOPOGRAPHIC AND RIGHT-OF-WAY SURVEY WAS NOT PERFORMED. CONTACT SUNSHINE STATE ONE-CALL AS REQUIRED BY CHAPTER 556 OF THE FLORIDA STATUTES PRIOR TO EXCAVATION OF PLANTING. FIELD LOCATE ALL UTILITIES, BILLBOARDS DRAINAGE STRUCTURES, LIGHT POLES, SIGNS AND OTHER VISIBLE STRUCTURES PRIOR TO IMPLEMENTING INSTALLATION OF PLANT MATERIALS. NOTIFY THE ENGINEER IMMEDIATELY OF ANY POSSIBLE CONFLICTS BETWEEN THE PROPOSED PLANTING LAYOUT AND UTILITIES, BILLBOARDS, SIGNS AND/OR OTHER STRUCTURES.

2. PROTECT EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, AND OTHER ITEMS OF CONSTRUCTION FROM DAMAGE. ALL DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER, AT NO COST TO THE DEPARTMENT. UNLESS OTHERWISE SHOWN TO BE REMOVED, BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO EXISTING TREES AND SHRUB/GROUNDCOVER PLANTINGS WITHIN OR OUTSIDE THE LIMITS OF WORK AS IDENTIFIED ON THE DRAWINGS. THIS INCLUDES, BUT IS NOT LIMITED TO, DAMAGE CAUSED BY OPERATION OF EQUIPMENT, STOCKPILING OF MATERIALS, CARELESS LABOR, OR OTHER CONTRACTOR ACTIVITIES. THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE DRIP-LINE OF TREES OR THE SPILLING OF OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIP-LINE OF TREES. EXISTING TREES LOCATED OUTSIDE THE MEDIANS THAT ARE KILLED OR DAMAGED SHALL BE REPLACED AT A COST TO THE CONTRACTOR.

3. MAINTAIN EXISTING REGULATORY SIGNAGE TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. IF EXISTING SIGNS ARE TO BE REMOVED/RELOCATED OR IMPACTED IN ANY WAY AS A RESULT OF CONSTRUCTION ACTIVITIES THE CONTRACTOR/CEI SHALL NOTIFY JOSEPH BIXBY IN THE STATE RIGHT-OF-WAY OFFICE 850.414.4558 A MINIMUM OF 48 HOURS PRIOR TO ANY WORK BEING DONE TO REMOVE/RELOCATE.

4. THE CONTRACTOR SHALL CONDUCT HIS WORK IN A MANNER TO PREVENT INTERRUPTION OR DAMAGE TO EXISTING SYSTEMS. THE CONTRACTOR SHALL PROTECT UTILITY SERVICES WHICH MUST REMAIN OPERATIONAL AND SHALL BE RESPONSIBLE FOR THEIR REPAIR OR REPLACEMENT IF DAMAGED BY CONTRACTOR.

5. THE WORK CONSISTS OF THE COMPLETE INSTALLATION OF PLANT MATERIALS, MULCH, SOIL, SOD, WATER AND INCIDENTAL ITEMS AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN. THE WORK SHALL INCLUDE THE FURNISHING OF ALL LABOR, EQUIPMENT, MATERIALS AND APPLIANCES REQUIRED FOR THE LANDSCAPE INSTALLATION AS SHOWN ON THE PLANS. THE WORK SHALL ALSO INCLUDE THE MAINTAINING OF ALL PLANTS AND PLANTING AREAS UNTIL ACCEPTANCE BY THE ENGINEER.

6. REFER TO THE FDOT DESIGN STANDARDS AND FDOT STANDARD SPECIFICATIONS FOR DETAILED LANDSCAPE REQUIREMENTS UNLESS OTHERWISE INDICATED OR SPECIFIED ON THE DRAWINGS.

7. ALL PLANT MATERIALS SHALL BE LAID OUT IN THE FIELD FOR THE ENGINEER, BY THE CONTRACTOR AT A MINIMUM OF ONE (1) WEEK PRIOR TO INSTALLATION OR AS APPROVED BY THE ENGINEER FOR REVIEW.

8. WHEN APPROVED BY THE ENGINEER, THE LOCATIONS OF PLANTS MAY BE ADJUSTED TO ACCOMMODATE UNFORESEEN FIELD CONDITIONS, TO COMPLY WITH SAFETY AND MAINTENANCE SETBACKS, OR AS OTHERWISE DIRECTED OR APPROVED BY THE ENGINEER.

9. ALL PLANT MATERIAL LOCATIONS SHALL BE INSTALLED IN ACCORDANCE WITH FDOT UTILITY ACCOMMODATION MANUAL AND ANY OTHER APPLICABLE LOCAL UTILITY PROVISIONS. IF UTILITIES OR OBSTRUCTIONS ARE ENCOUNTERED DURING PLANT INSTALLATION, INFORM THE ENGINEER IMMEDIATELY. ALTERNATE LOCATIONS FOR PLANT MATERIALS ARE SUBJECT TO THE APPROVAL BY THE ENGINEER. SUCH CHANGES IN LOCATION SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COMPENSATION.

10. ALL PLANT MATERIALS SHALL BE GRADE #1 MINIMUM, UNLESS OTHERWISE NOTED, AS SPECIFIED IN "GRADES AND STANDARDS FOR NURSERY PLANTS", LATEST EDITION, BY DIVISION OF PLANT INDUSTRY, FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, AND SHALL CONFORM TO CURRENT AMERICAN ASSOCIATION OF NURSERYMEN "STANDARDS FOR NURSERY STOCK", LATEST EDITION. ALL TREES TO HAVE STRAIGHT, SINGLE TRUNK UNLESS OTHERWISE NOTED ON PLANS. CLEAR TRUNK FOR PALMS IS DEFINED AND DESCRIBED IN THE ABOVE REFERENCED PUBLICATION. REFER TO THE PLANT SCHEDULE FOR DETAILED SPECIFICATIONS FOR PLANTS. FURNISH AND INSTALL PLANT SPECIES IN ACCORDANCE WITH THE SIZES AND GRADES SPECIFIED IN THE PLANT SCHEDULE.

11. ALL ON-SITE PLANT MATERIAL DELIVERIES SHALL TAKE PLACE ON MONDAY THROUGH THURSDAY ONLY UNLESS OTHERWISE DIRECTED BY THE ENGINEER. FURNISH PLANT MATERIALS FREE FROM INSECTS, DISEASES, PARASITES, OR HARMFUL TOXIC CHEMICAL SUBSTANCES. ENSURE THAT ALL PLANT MATERIALS ARE DELIVERED ON SITE UNDAMAGED FROM TRANSPORTATION OR DIGGING OPERATIONS. THE ENGINEER WILL REJECT ANY MATERIAL THAT HAS BEEN DAMAGED OR RENDERED UNACCEPTABLE DUE TO RELOCATION OR TRANSPORTATION FROM POINT OF ORIGIN. ALL PLANT MATERIAL SHALL BE PROTECTED FROM SUN, WIND, AND OTHER DAMAGE, DURING DELIVERY. ALL PLANT MATERIALS MUST BE AVAILABLE TO BE INSPECTED BY THE ENGINEER PRIOR TO PLANTING.

12. ALL LANDSCAPE MATERIAL SHALL BE INSTALLED AND MAINTAINED IN A MANNER WHEREBY TRAFFIC CONTROL SIGNAGE, SIGNALS, CAMERAS AND DEVICES ARE VISIBLE TO MOTORISTS AND PEDESTRIANS AT ALL TIMES DURING THE CONSTRUCTION AND ESTABLISHMENT PERIOD.

13. THE PROPOSED PLANTINGS ARE LOCATED TO ALLOW MAINTENANCE ACCESS AND SHALL NOT OBSTRUCT ACCESS TO STORMWATER MANAGEMENT FACILITIES.

14. THE CONTRACTOR SHALL KEEP ALL SWALES, DITCHES AND OTHER DRAINAGE CONVEYANCE SYSTEMS CLEAR OF OBSTRUCTIONS BY ALL LANDSCAPING EXCEPT SOD.

15. RESTORE ALL LANDSCAPE AREAS TO THE ORIGINAL GRADES AND SLOPES. REMOVE FROM THE PROJECT SITE ALL EXCESS SOIL VOLUME RESULTING FROM THE INSTALLATION OF PLANT MATERIALS AND DISPOSE OF THIS SOIL IN ACCORDANCE WITH LOCAL REGULATIONS. ALL STORMWATER RUNOFF SHALL BE DIRECTED TO THE RETENTION AREAS, PONDS, SWALES, INLETS, ETC.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-GRADING AND/OR REPLACING ANY SOD THAT IS DISTURBED BY THE LANDSCAPE PROJECT SUCH AS BY RUTTING OR TRENCHING. ALL RESTORATION OF DISTURBED AREAS SHALL BE PERFORMED WITH BERMUDA SOD UNLESS OTHERWISE DIRECTED BY THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE MADE.

17. PROVIDE ESTABLISHMENT AND MAINTENANCE ACTIVITIES AS DESCRIBED IN THE RECOMMENDED LANDSCAPE TECHNICAL MAINTENANCE PLAN AND NOTES, AND FDOT STANDARD SPECIFICATION 580.

18. THE JOB SITE SHALL BE KEPT ORDERLY AND REASONABLY CLEAN ON A DAILY BASIS DURING CONSTRUCTION OPERATIONS. UPON DAILY COMPLETION OF WORK, REMOVE ALL DEBRIS AND WASTE GENERATED BY CONSTRUCTION OPERATIONS, INCLUDING THE DAILY CLEANING OF WALLS, PAVING, CURBS, SIDEWALKS, AND TURF AREAS.

19. FINAL "AS-BUILT" DRAWINGS OF THE LANDSCAPE INSTALLATION SHALL BE SIGNED AND SEALED BY A LANDSCAPE ARCHITECT REGISTERED IN THE STATE OF FLORIDA. PROVIDE AS-BUILT DRAWINGS TO FDOT MAINTENANCE AT THE START OF THE ESTABLISHMENT PERIOD. THE ESTABLISHMENT PERIOD WILL NOT START UNTIL THE AS-BUILT PLANS ARE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. SUBMIT AS-BUILTS ON SCALED 11X17 PLAN SHEETS IN ELECTRONIC FILE PDF FORMAT AND PRINT FORM.

20. SUBMITTALS
    A. SUPPLY THE FOLLOWING ITEMS AND SUBMIT TO THE ENGINEER FOR APPROVAL:
        1. MANUFACTURER'S LABEL AND APPLICATION RATES FOR HERBICIDES, INSECTICIDES, AND PRE-EMERGENTS. A COPY OF THE LICENSE OF THE STATE LICENSED APPLICATOR.
        2. FERTILIZER ANALYSIS. MANUFACTURER'S LABEL AND APPLICATION RATES. A COPY OF THE LICENSE OF THE STATE LICENSED APPLICATOR.
        3. SAMPLE OF MULCH MATERIAL.
        4. A SCHEDULE OF VALUES FOR ALL LANDSCAPE MATERIALS AND INCIDENTALS SPECIFIED IN THE PLANS AND STANDARD SPECIFICATION 580 SHALL BE SUBMITTED PRIOR TO COMMENCEMENT OF THE WORK.
        5. SUBMIT AN AFFIDAVIT FROM THE NURSERY SOURCE(S) FOR PALMS PURCHASED FOR THE PROJECT CERTIFYING THAT THE PALMS ARE FREE OF DISEASES. DUE CARE SHALL BE TAKEN IN TRANSPORTING, PLANTING, AND STAKING ACTIVITIES TO AVOID TRUNK DAMAGE. SUCH INJURIES TO THE TRUNK ARE KNOWN TO INCREASE EXPOSURE TO FUNGI AND INCREASE THE CHANCES OF INFECTION. CONTRACTOR MAY, AT THEIR DISCRETION, CONSULT WITH A PALM SPECIALIST FROM IFAS, OR A PRIVATE CONSULTANT, PRIOR TO PROVIDING AFFIDAVIT.

21. EXISTING CURBED MEDIANS-SOIL EXCAVATION AND REPLACEMENT
    A. ALL SOIL TO BE PLACED IN THE EXISTING CURBED MEDIANS SHALL MEET THE FOLLOWING REQUIREMENTS:
        1. A MINIMUM OF TWO AND A HALF FEET (2.5') OF MATERIAL SHALL BE REMOVED BELOW THE EXISTING GRADE AND REPLACED WITH TWENTY-EIGHT INCHES (28") OF LANDSCAPE SOILS.
        2. LANDSCAPE SOIL LAYER SHALL BE SANDY/LOAM TEXTURE SOIL THAT IS FERTILE, FRIABLE AND FREE OF CLAY LUMPS, MUCK, BRUSH, WEEDS, ROOTS, STUMPS, STONES, ASPHALT AND OTHER EXTRANEOUS LITTER OR TOXIC HARMFUL TO PLANT GROWTH.
        3. SOIL SHALL HAVE A pH RANGE OF 6.0-7.5.
        4. SOIL SHALL HAVE A MINIMUM RANGE OF 5%-10% ORGANIC CONTENT.
        5. SOIL SHALL BE TESTED FOR pH AND ORGANIC CONTENT BY A DEPARTMENT APPROVED INDEPENDENT TESTING LABORATORY PRIOR TO PLACEMENT. ALL ASSOCIATED COSTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
        6. PROVIDE SOIL SAMPLE WITH SOIL TEST ANALYSIS TO THE ENGINEER PRIOR TO DELIVERY OF MATERIAL TO THE SITE. AT THE DISCRETION OF THE ENGINEER ADDITIONAL TESTING OF MATERIAL ON-SITE MAY BE REQUIRED AS SPECIFIED.

22. BALLED AND BURLAPPED PLANTING MEDIUM
    A. BALLED AND BURLAPPED MATERIALS ARE TO BE ROOTED AND GROWN IN SIMILAR PLANTING MEDIUM AS THE PROPOSED LOCATION SOIL CONDITIONS. CLAY SOIL ROOT BALLS WILL NOT BE ACCEPTED AS SUITABLE MATERIAL IN BALLED AND BURLAPPED PLANT MATERIAL.
    B. ALL BALLED AND BURLAPPED MATERIALS SHALL EXHIBIT WHITE FEEDER ROOTS PROTRUDING FROM THE BURLAP AT THE TIME OF DELIVERY
    C. SHOULD ANY DISCREPANCIES MATERIALIZE DUE TO THE ROOT BALL MEDIUM, THE ENGINEER SHALL DIRECT IMMEDIATE REMOVAL OF ALL UNSUITABLE MATERIALS AT THE CONTRACTOR'S EXPENSE.

23. PLANT SUPPLEMENTS
    A. ALL PLANT MATERIAL AND PALMS SHALL BE FERTILIZED WITH A 12-MONTH SLOW RELEASE TOP DRESSING FERTILIZER WITH A MINOR ELEMENT PACKAGE TO INCLUDE BUT ARE NOT LIMITED TO CALCIUM, MAGNESIUM, SULFUR, IRON, COPPER, MAGANESE, MOLYBDENUM, ZINC AND BORON.
    B. ALL PLANT MATERIALS SHALL BE FERTILIZED AT THE TIME OF PLANTING, ONCE PER YEAR AND 30 DAYS PRIOR TO COMPLETION OF THE ESTABLISHMENT PERIOD. NOTIFY THE ENGINEER IN WRITING 48 HOURS IN ADVANCE OF ALL FERTILIZER APPLICATIONS.

24. HERBICIDE AND INSECTICIDE
    A. ALL PRE AND POST HERBICIDAL TREATMENTS SHALL INCLUDE A TEMPORARY TRACER DYE IDENTIFIABLE FOR A MINIMUM OF TWO (2) DAYS AFTER APPLICATION. SUBMIT SAMPLES OF HERBICIDE AND TRACER DYE TO ENGINEER FOR APPROVAL.

25. STAKING AND GUYING
    A. PALMS SHALL BE STAKED AS INDICATED IN THE PLANS AND AS SHOWN IN FDOT DESIGN STANDARD INDEX 544. MAINTAIN AND REPAIR STAKING THROUGHOUT CONSTRUCTION AND ESTABLISHMENT PERIOD. REMOVE STAKING AT THE END OF THE ESTABLISHMENT PERIOD OR AS DIRECTED BY THE ENGINEER.
    B. MAINTAIN ALL STAKING AND GUYING IN GOOD CONDITION AT ALL TIMES.

26. MULCH
    A. ALL MULCH MATERIAL SHALL BE RECYCLED YARD WASTE AND SHALL BE APPLIED TO ALL PLANTING AREAS AND PALMS AT A MINIMUM COMPACTED DEPTH OF THREE (3) INCHES. MINIMUM 3" DEPTH SHALL BE MAINTAINED THROUGHOUT THE CONTRACT PERIOD.

27. WEED AND LITTER CONTROL
    A. DURING THE PROJECT CONSTRUCTION PERIOD AND ESTABLISHMENT PERIOD KEEP THE INDIVIDUAL PLANTING LOCATIONS AND PLANTING BEDS FREE OF LITTER AND UNDESIRABLE VEGETATION. PROVIDE ENGINEER WITH A WRITTEN SCHEDULE FOR THIS ACTIVITY.

28. PER FDOT SPECIFICATION 8-6.4, SUSPENSION OF CONTRACTOR'S OPERATIONS - HOLIDAYS AND SPECIAL EVENTS, SPECIAL EVENT DAYS FOR THIS PROJECT INCLUDE:
    A. THURSDAY BEFORE THROUGH THE CLOSE OF THE TPC GOLF TOURNAMENT
    B. FRIDAY BEFORE THROUGH THE SUNDAY AFTER THE FLORIDA-GEORGIA FOOTBALL GAME
    C. THE DAY OF THE JAGUAR HOME FOOTBALL GAMES (PRESEASON, REGULAR INCLUDING MONDAY AND THURSDAY NIGHT AND POSTSEASON)
    D. THE DAY BEFORE THROUGH THE DAY AFTER THE GATOR BOWL
    E. THE DAY BEFORE THROUGH THE DAY AFTER THE GREATER JACKSONVILLE AGRICULTURAL FAIR
    F. GATE RIVER RUN
    G. OPENING WEEKEND AT THE BEACHES

REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA# 6666702
STATE OF FLORIDA
7/12/15

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE NOTES

SHEET NO.
LD-01

BILLBOARD OWNERS CONTACT INFORMATION

CLEAR CHANNEL
MR. STEWART HOWE
CLEAR CHANNEL OUTDOOR - JAX
11700 CENTRAL PARKWAY, SUITE 100
JACKSONVILLE, FL 32224
904.996.0442 OFFICE
EMAIL: STEWARTHOWE@CLEARCHANNEL.COM

CBS OUTDOOR, INC.
MR. JON CAMPBELL
2699 LEE ROAD, SUITE 200
WINTER PARK. FL 32789
407.975.0202 OFFICE
EMAIL: JON.CAMPBELL@CBSOUTDOOR.COM

NOTE: EXISTING BILLBOARDS WITHIN THE PROJECT LIMITS ARE NOT PERMITTED BY FDOT.

UTILITY OWNERS CONTACT INFORMATION

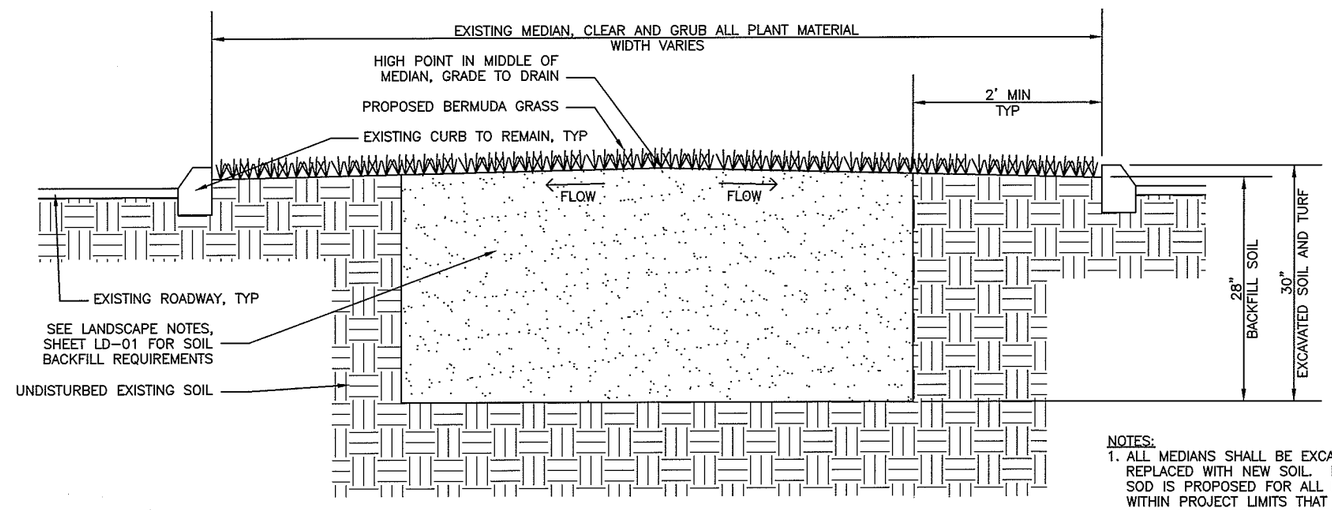
AT&T FLORIDA	800.252.1133
COMCAST	904.380.6274
FPL FIBERNET	866.553.4237
JEA ELEC/FIBER	904.665.6000
JEA W/WW	904.665.4801
LEVEL 3	904.813.2063
MCI/VERIZON	800.624.9675
TECO PEOPLE GAS	877.832.6747
CITY OF JACKSONVILLE TRAFFIC	904.255.7553
TW TELECOM	904.545.8541

STANDARD LANDSCAPE SETBACKS
(FOR INSTALLATION AND MAINTENANCE OPERATIONS)

TYPE	SR 212	Drainage Structures	Underground Utilities	Overhead Utilities
Groundcovers	6' Horizontal Clearance From Travel Lane 100' Restricted Median Nose			
Sabal/ Washington Palms	6' Horizontal Clearance From Travel Lane 100' Restricted Median Nose	5'	5'	10'
Wild Date/Medjool Date Palms	6' Horizontal Clearance From Travel Lane 100' Restricted Median Nose	5'	15'	10'

1. Design Speeds are as follows:
SR 212 45 mph

2. All palms to be placed in accordance with FDOT Design Standard Index 700, Table C and Design Standard Index 546.



NOTES:
1. ALL MEDIANS SHALL BE EXCAVATED AND REPLACED WITH NEW SOIL. NEW BERMUDA SOD IS PROPOSED FOR ALL MEDIANS WITHIN PROJECT LIMITS THAT ARE NOT EXISTING CONCRETE SEPARATORS.
2. PLACE SOIL IN 10 INCH MAXIMUM LIFTS MEASURED LOOSE TO MINIMIZE SETTLEMENT. A MINIMUM OF 12 INCHES OF NON-MECHANICALLY COMPACTED SOIL SHALL BE AVAILABLE FOR WATER ABSORPTION AND ROOT GROWTH IN THE PLANTED AREAS.

EXISTING MEDIANS-SOIL EXCAVATION AND REPLACEMENT DETAIL
NTS

REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA# 6666702
STATE OF FLORIDA
3/12/15

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE NOTES AND DETAILS

SHEET NO. LD-02

PLANT SCHEDULE

PALM TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	REMARKS
	PD	149	PHOENIX DACTYLIFERA 'MEDJOOL'	MEDJOOL DATE PALM	FG	25' CT, MATCHED HT
	PS	18	PHOENIX SYLVESTRIS	WILD DATE PALM	FG	12' CT, MATCHED HT
	SP	275	SABAL PALMETTO	SABAL PALM	FG	12'–18' CT, STAGGERED HEIGHTS, REGENERATED ROOTS & LEAVES, SLICK AND HEAVY TRUNKS, MIN 7' O.C.
	WR	46	WASHINGTONIA ROBUSTA	WASHINGTON PALM	FG	18'–26' CT, STAGGERED HEIGHTS, HEAVY TRUNKS, MIN 10' O.C.

GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING	REMARKS
	PQ	1,849	PASPALUM QUADRIFARIUM	CROWN GRASS	3 GAL	48" o.c.	16"–18" HT X 18" SPR, FULL

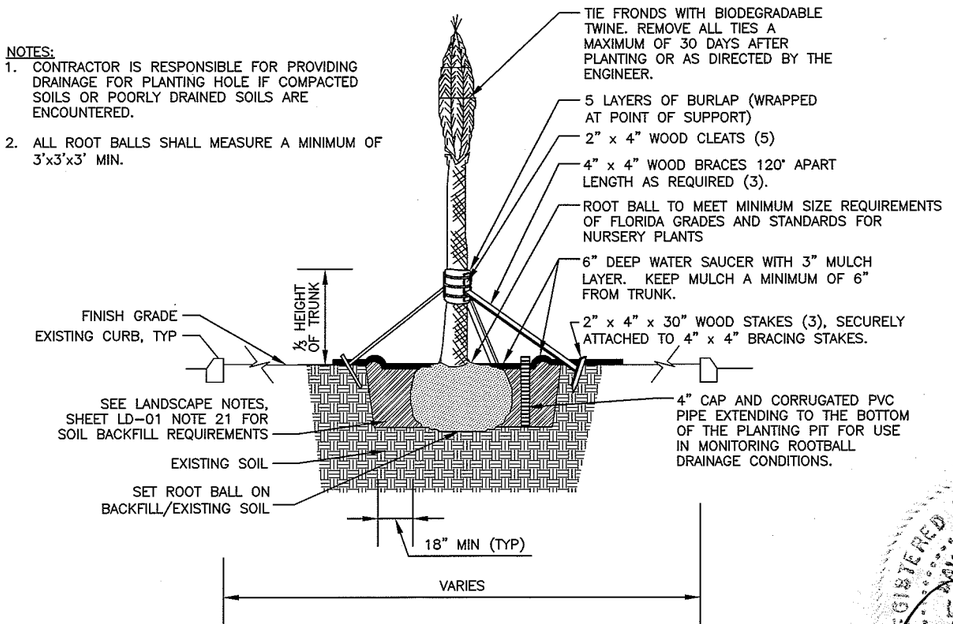
SOD/SEED	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING	REMARKS
	CS	33,971 SY	CYNODON SPP	BERMUDA GRASS	2' X 3' RECTANGLES		MUST MEET REQUIREMENTS AS PER FDOT STANDARD SPECIFICATION 570 – PERFORMANCE TURF

NOTE:
1. BOTH SABAL AND WASHINGTON PALMS TO BE PLANTED IN INFORMAL GROUPINGS OF VARYING HEIGHTS SUCH THAT NO TWO (2) ADJACENT PALMS ARE OF EQUAL HEIGHT.
2. BOTH SABAL AND WASHINGTON PALMS TO BE STAGGERED HORIZONTALLY A MINIMUM OF TWO (2) FEET SUCH THAT NO TWO (2) ADJACENT PALMS ARE ALIGNED IN A STRAIGHT ROW.

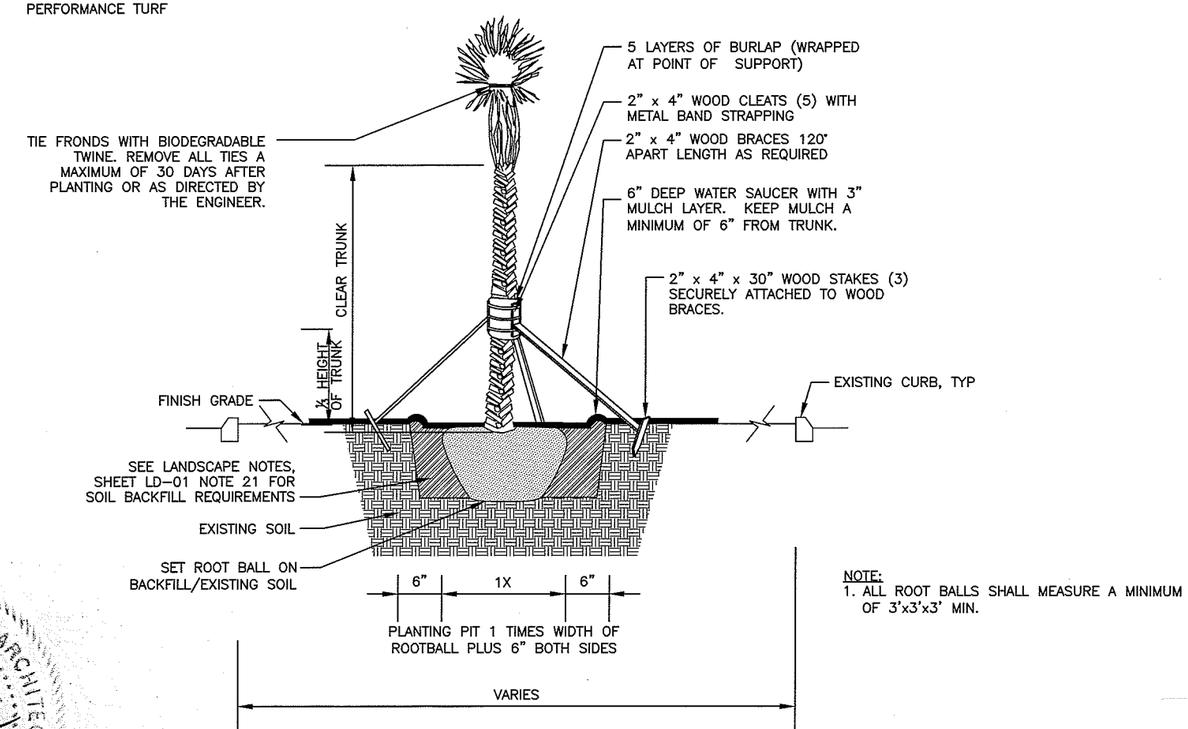
ABBREVIATIONS
AC = ACRE
CONT = CONTAINER
CT = CLEAR TRUNK
GAL = GALLON
FG = FIELD GROWN
HT = HEIGHT
MIN = MINIMUM
O.C. = ON CENTER
SF = SQUARE FEET
SPP = SPECIES
SPR = SPREAD
TYP = TYPICAL

NOTE:
SABAL PALMS (SABAL PALMETTO) SPECIFIED AS HAVING "REGENERATED ROOTS AND LEAVES" AS SHOWN ON THE PLANT SCHEDULE (LD–03) SHALL BE MINIMUM FLORIDA NO. 1 GRADE UNLESS NOTED OTHERWISE. THE ROOT BALLS SHALL HAVE NEW, REGENERATED, ROUND–TIPPED ROOTS THAT HAVE EMERGED FROM THE ROOT INITIATION ZONE. ROOTS SHALL BE WHITISH–YELLOW IN COLOR, HAVE TAPERED ENDS AND BE PRESENT ON ALL SIDES OF THE ROOT BALL. TO QUALIFY AS "REGENERATED ROOTS AND LEAVES" SABAL PALMS, AFTER FIELD HARVESTING AND DURING THE ROOT REGENERATION PERIOD, SABAL PALM ROOT BALLS SHALL HAVE BEEN PLACED IN CONTAINERS OR BE CONTAINED WITHIN "PLASTIC FABRIC OR FILM MATERIAL", OR APPROVED EQUAL. THEY SHALL HAVE A MINIMUM OF THREE FULLY EXPANDED NEW FRONDS THAT HAVE NOT BEEN PRUNED. FULLY EXPANDED NEW FRONDS SHALL MEET THE MINIMUM REQUIREMENTS TO BE CONSIDERED "EXCELLENT LEAVES", AS DEFINED BY THE GLOSSARY OF TERMS IN THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES GRADES AND STANDARDS FOR NURSERY PLANTS – PALMS AND CYCADS. COLOR PHOTOGRAPHS OF "REGENERATED ROOTS" SABAL PALMS SHALL BE PROVIDED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO DELIVERY AND INSTALLATION ON THE PROJECT CONSTRUCTION SITE. PHOTOS SHALL CLEARLY DEPICT: THE CLEAR TRUNK HEIGHT; THE TRUNK DIAMETER MEASURED AT THE BASE; THE ROOT BALL MEASUREMENTS; REGENERATED ROOTS ON ALL SIDES OF THE ROOT BALL; THREE FULLY EXPANDED NEW FRONDS. ALL MEASUREMENTS AND REQUIREMENTS NOTED HEREIN SHALL BE CLEARLY IDENTIFIABLE IN THE COLOR PHOTOGRAPH SUBMITTALS. UPON DELIVERY TO THE PROJECT CONSTRUCTION SITE OR HOLDING AREA "REGENERATED ROOTS AND LEAVES" SABAL PALMS WILL BE SUBJECT TO INSPECTION BY THE ENGINEER AND THE DEPARTMENT'S DULY AUTHORIZED REPRESENTATIVE TO CONFIRM COMPLIANCE WITH THESE SPECIFICATIONS BEFORE INSTALLATION. SABAL PALMS THAT DO NOT MEET THE MINIMUM REQUIREMENTS NOTED HEREIN WILL NOT BE APPROVED. REJECTED MATERIALS SHALL BE REMOVED FROM THE PROJECT CONSTRUCTION SITE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE DEPARTMENT.

NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR PROVIDING DRAINAGE FOR PLANTING HOLE IF COMPACTED SOILS OR POORLY DRAINED SOILS ARE ENCOUNTERED.
2. ALL ROOT BALLS SHALL MEASURE A MINIMUM OF 3'x3'x3' MIN.



1 NTS DATE PALM MEDIAN PLANTING DETAIL



NOTE:
1. ALL ROOT BALLS SHALL MEASURE A MINIMUM OF 3'x3'x3' MIN.

2 NTS WASHINGTON PALM MEDIAN PLANTING DETAIL

REGISTERED LANDSCAPE ARCHITECT DAVID W. CRAWLEY LA 0666702 STATE OF FLORIDA 3/27/15

REVISIONS			
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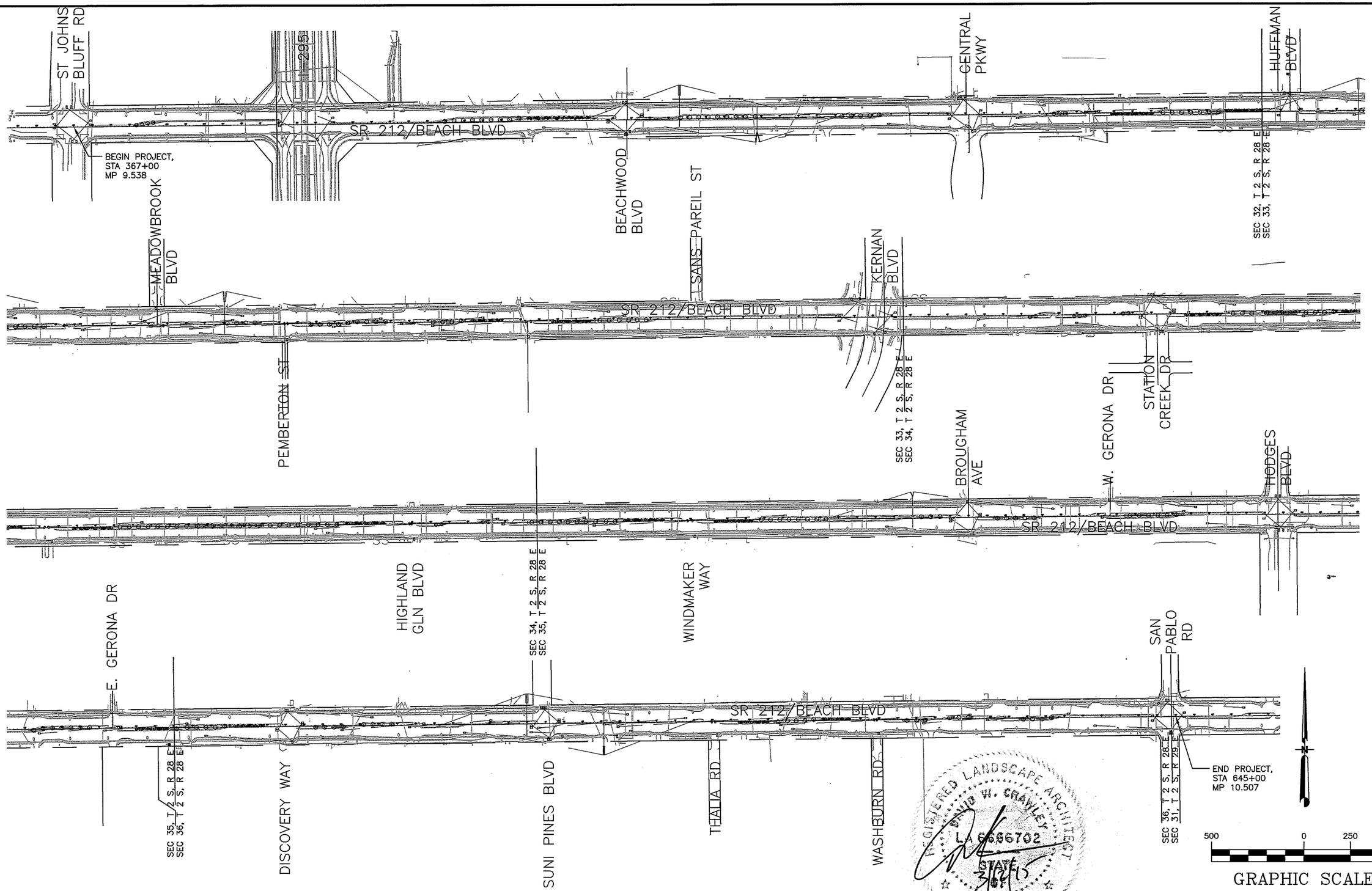
URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

PLANT SCHEDULE AND DETAILS

SHEET NO. LD-03



REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 6666702
STATE OF FLORIDA
3/9/15

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URS Corporation Southern
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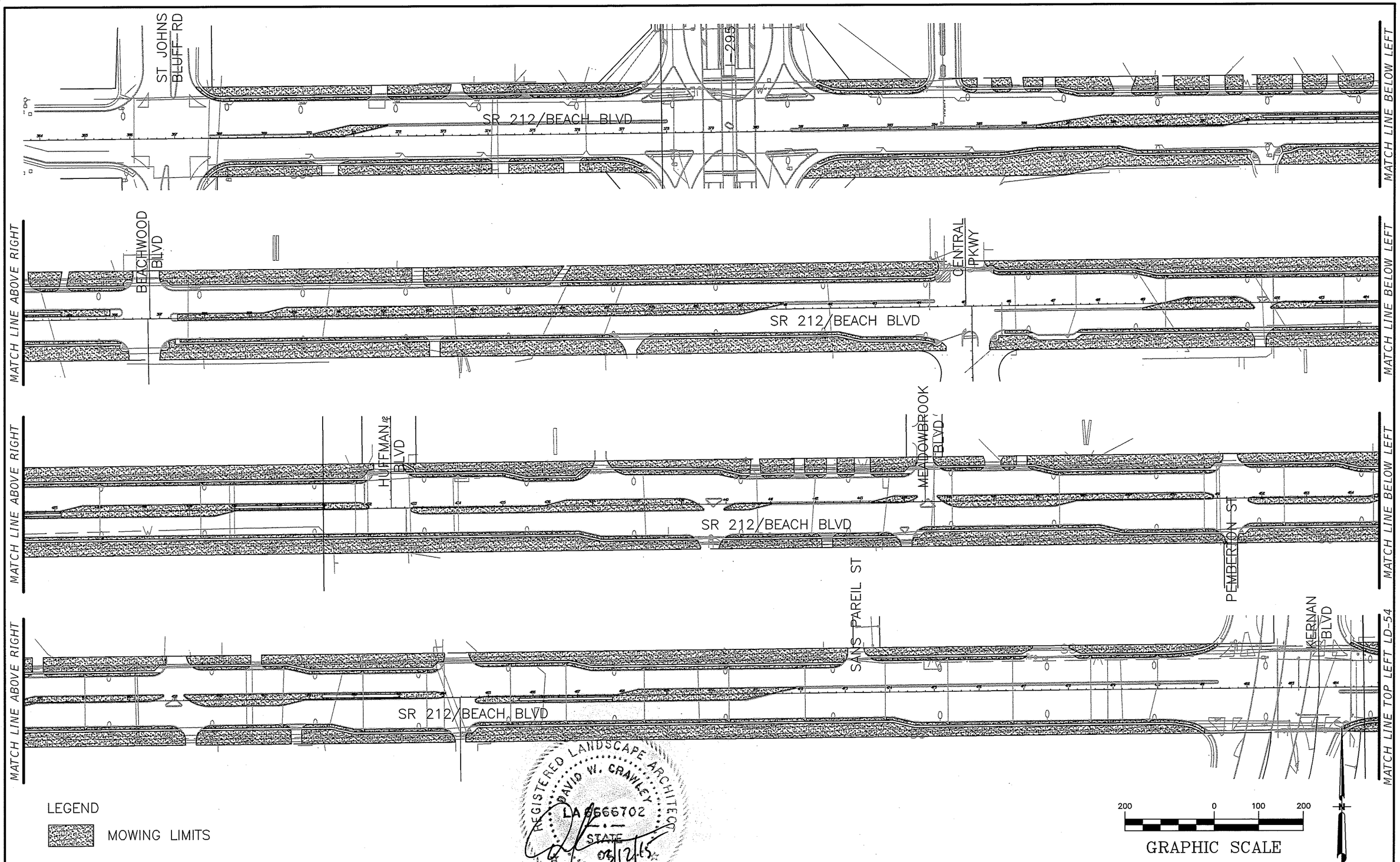
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

PROJECT LAYOUT

SHEET NO.
LD-04



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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

MOWING LIMITS (1)

SHEET NO.
LD-05

Monday, March 09, 2015 9:24am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD01

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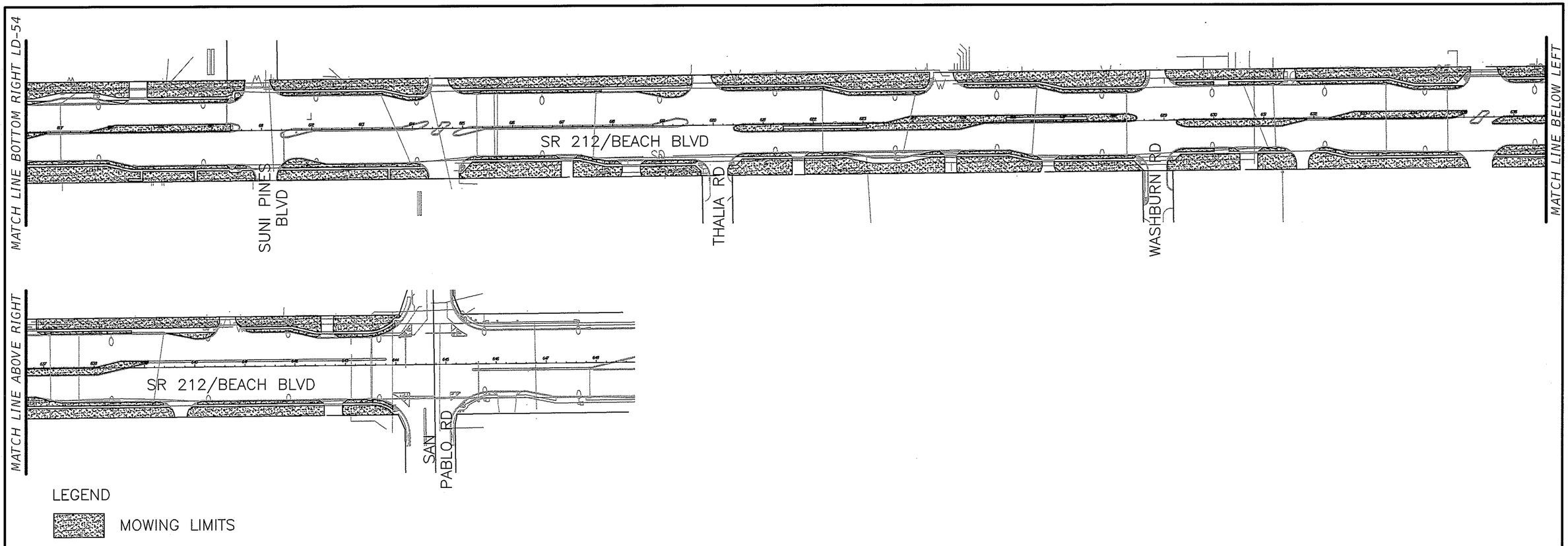
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

MOWING LIMITS (2)

SHEET NO.
LD-06



LEGEND

MOWING LIMITS

SUMMARY OF LITTER REMOVAL AND MOWING									
CONST. PHASE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL			MOWING			REMARKS
			CYCLES	AREA		CYCLES	AREA		
				AC/CYCLES	TOTAL (AC)		AC/CYCLES	TOTAL (AC)	
1	931	30	31	42	1302	31	42	1302	
		TOTAL		P	1302	TOTAL	P	1302	
				F			F		

LITTER REMOVAL AND MOWING NOTES:
1. CYCLES FOR CONSTRUCTION (200 DAYS) AND TWO YEAR ESTABLISHMENT PERIOD (731 DAYS).
2. THE ABOVE QUANTITIES INCLUDE ONE LITTER REMOVAL AND MOWING DURING THE FIVE DAY PERIOD PRECEDING THE FINAL ACCEPTANCE DATE. THE ENGINEER MAY WAIVE THE REQUIREMENT FOR THIS FINAL LITTER REMOVAL AND MOWING.

REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 6666702
STATE OF FLORIDA
3/12/15

200 0 100 200
GRAPHIC SCALE

N

REVISIONS			
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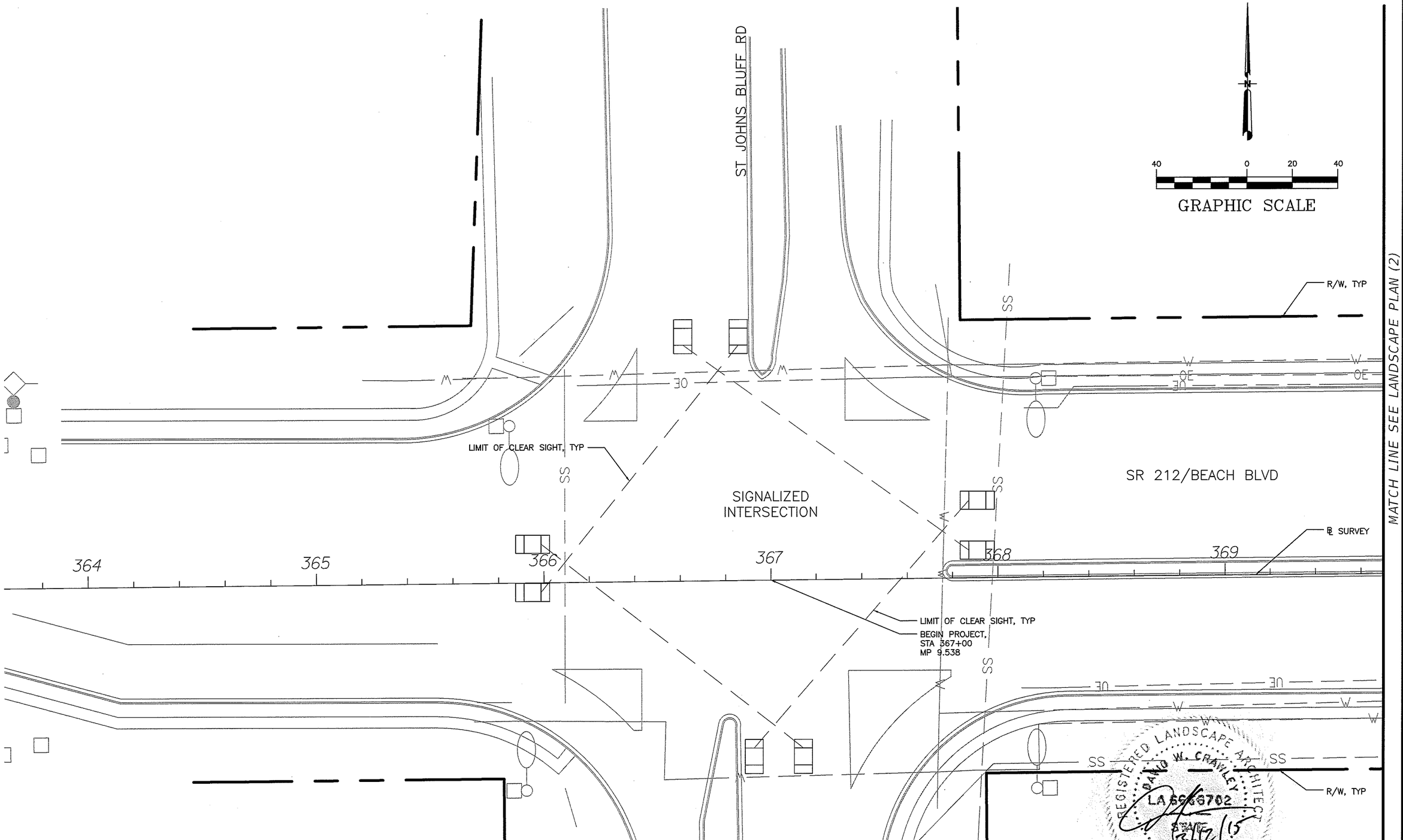
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

MOWING LIMITS (3)

SHEET NO.
LD-07

Monday, March 09, 2015 9:25am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD03



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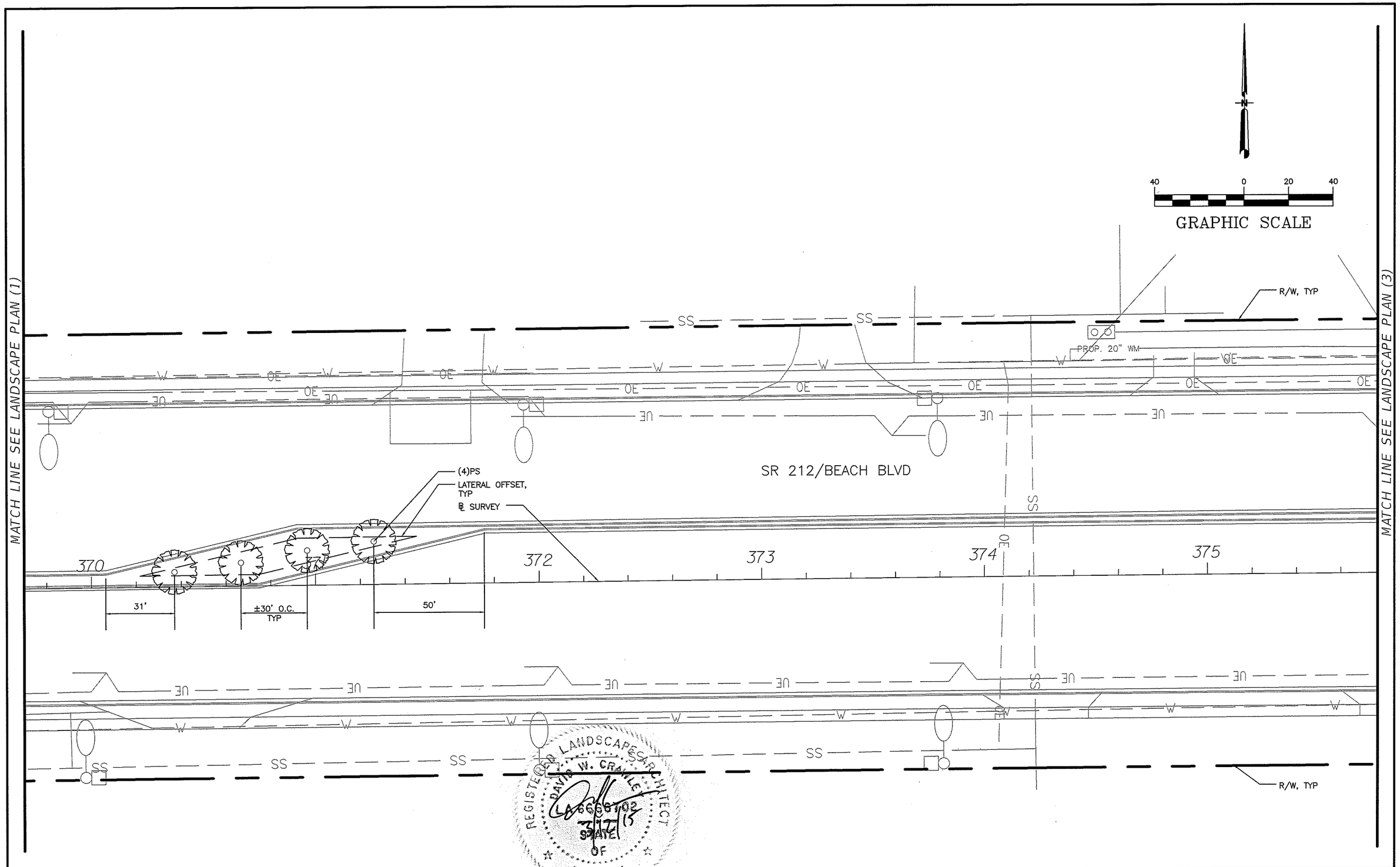
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (1)

SHEET NO.
LD-08

Monday, March 09, 2015 9:25am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD01



REVISIONS			
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DAVID W. CRAWLEY, RLA LA# 6666207

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (2)

SHEET NO.
LD-09

Monday, March 09, 2015 9:25am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD02

MATCH LINE SEE LANDSCAPE PLAN (2)

MATCH LINE SEE LANDSCAPE PLAN (4)

I-295

GRAPHIC SCALE

40 0 20 40

PROP. 20" WM

W

UE

SR 212/BEACH BLVD

SIGNALIZED INTERSECTION

LIMIT OF CLEAR SIGHT, TYP

℄ SURVEY

376 377 378 379 380 381

REGISTERED LANDSCAPE ARCHITECT DAVID W. CRAWLEY LA#6666207 STATE OF FLORIDA

3/12/15

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DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
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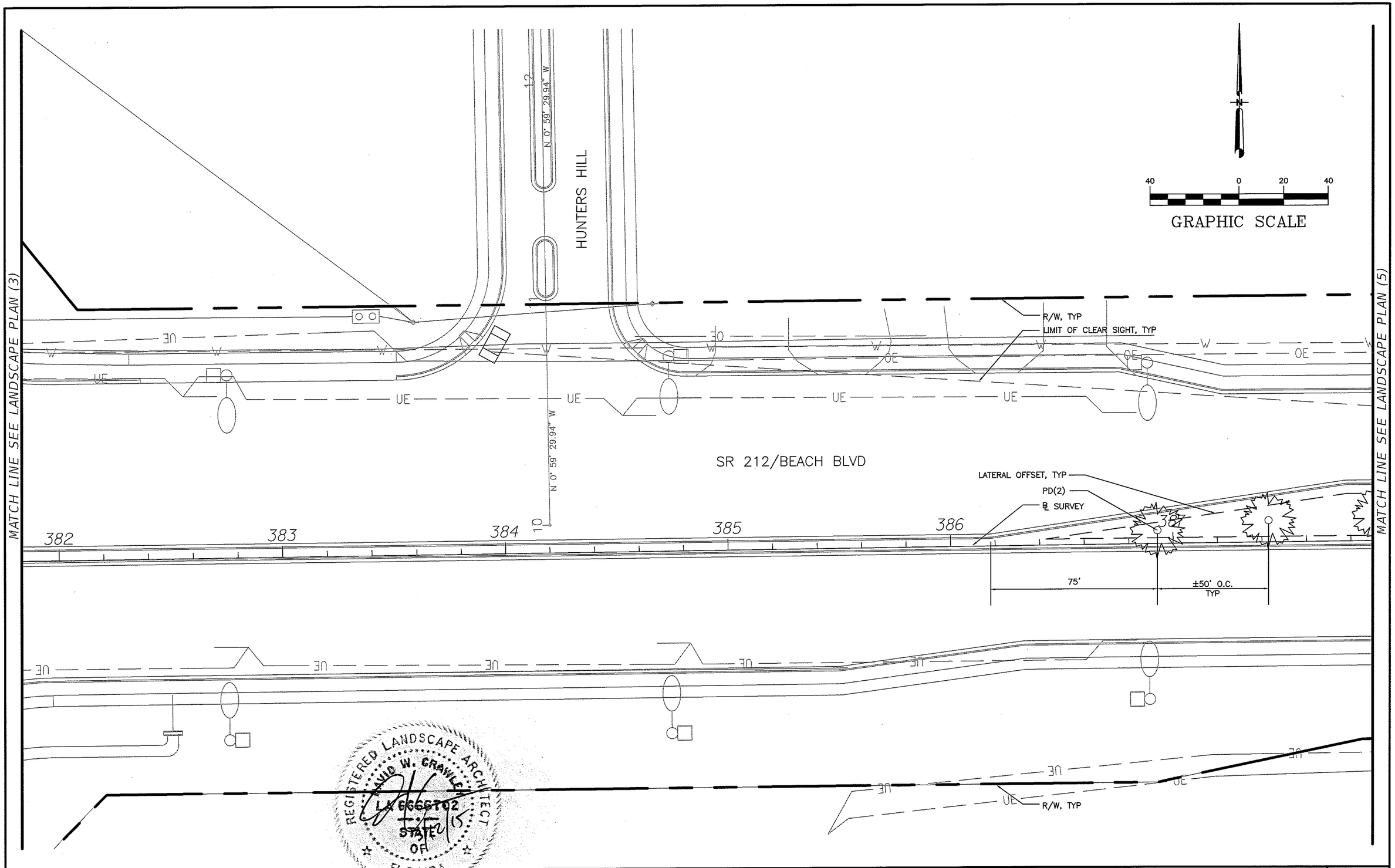
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (3)

SHEET NO.

LD-10

Monday, March 09, 2015 9:26am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD02



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C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
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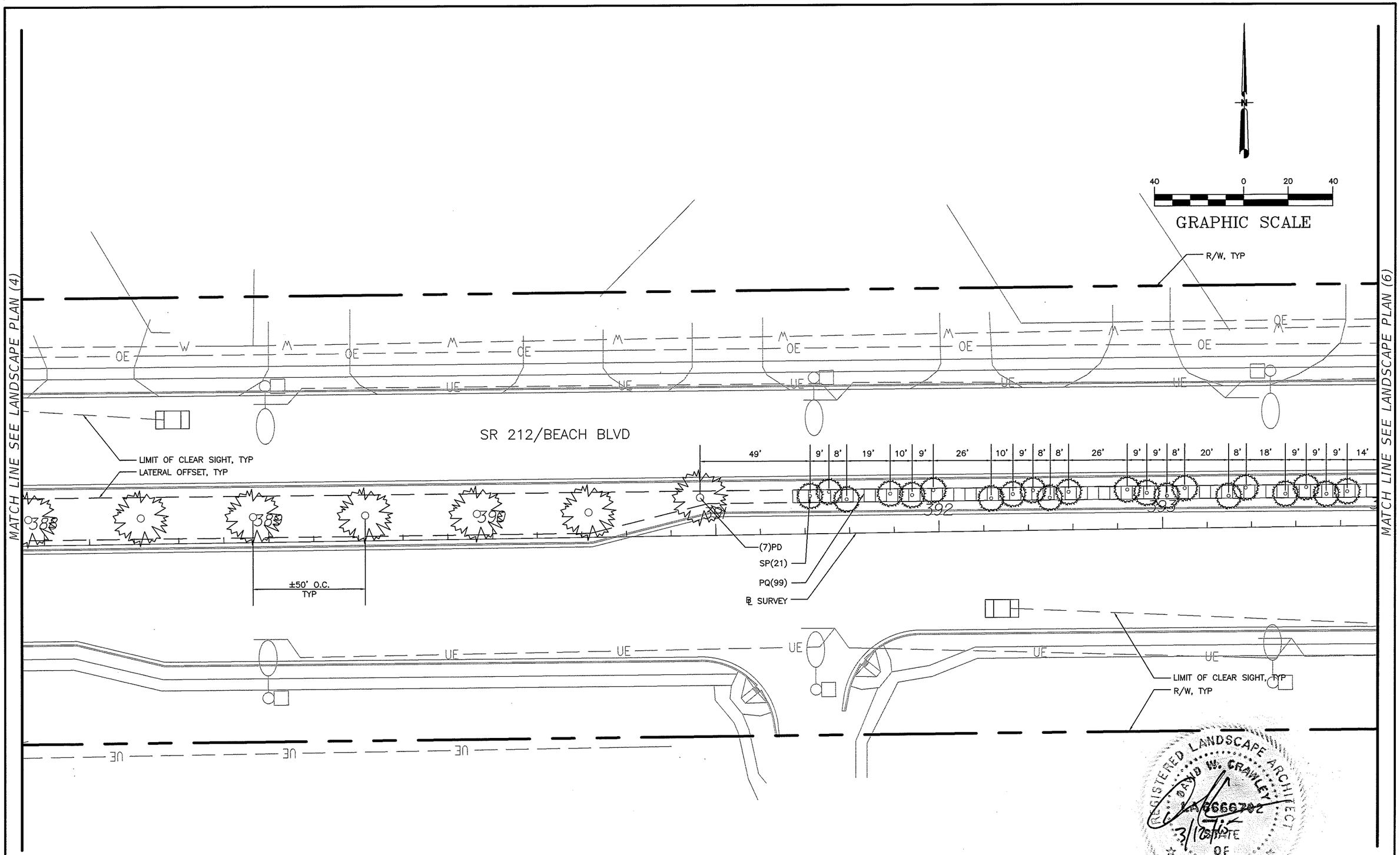
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (4)

SHEET NO.
LD-11

Monday, March 09, 2015 9:26am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD04



REVISIONS			
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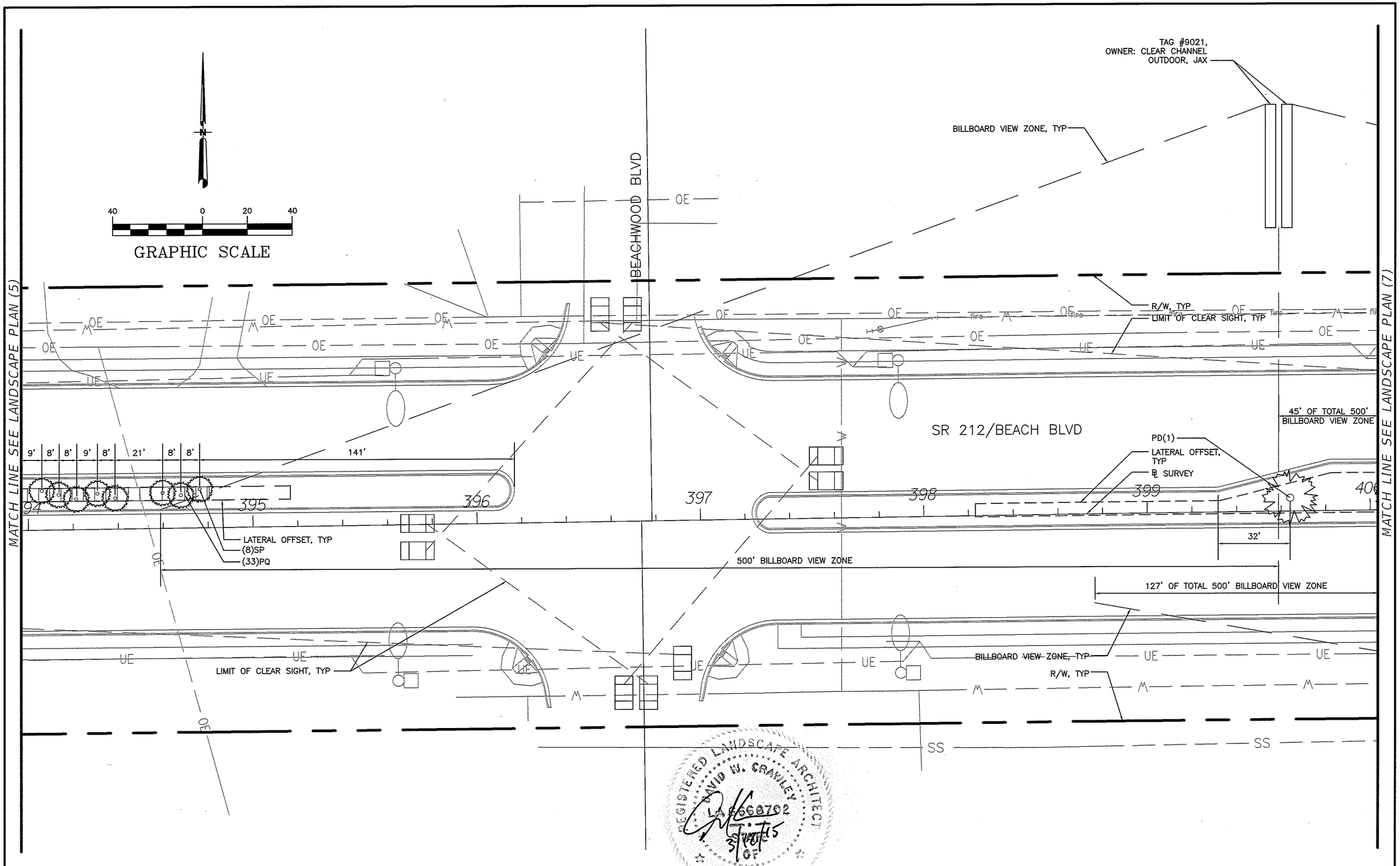
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (5)

SHEET NO.
LD-12

Monday, March 09, 2015 9:26am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD05



REGISTERED LANDSCAPE ARCHITECT DAVID W. CRAWLEY LA 0666207 STATE OF FLORIDA

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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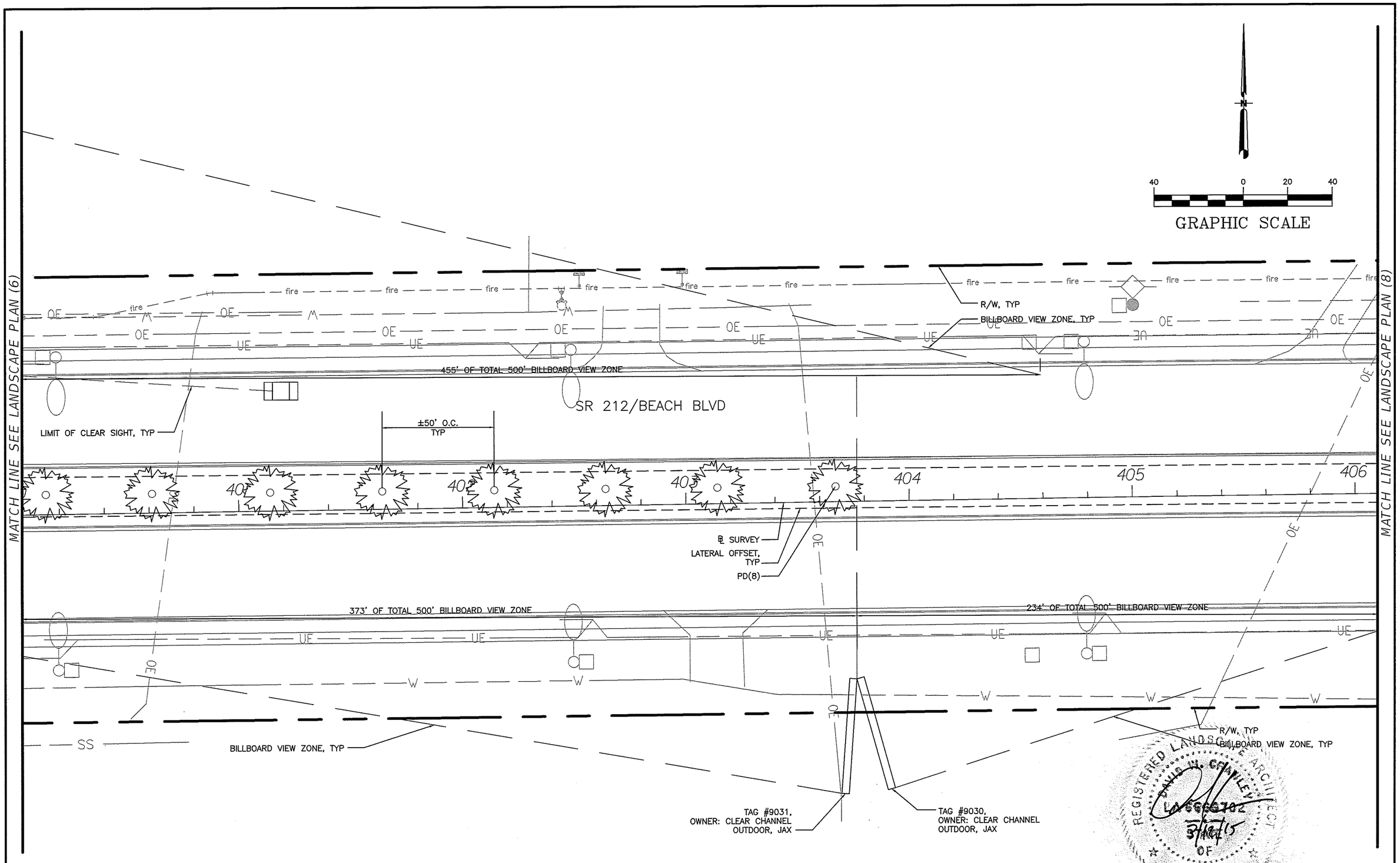
LANDSCAPE PLAN (6)

SHEET NO.
LD-13

Monday, March 09, 2015 9:26am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD01



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C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

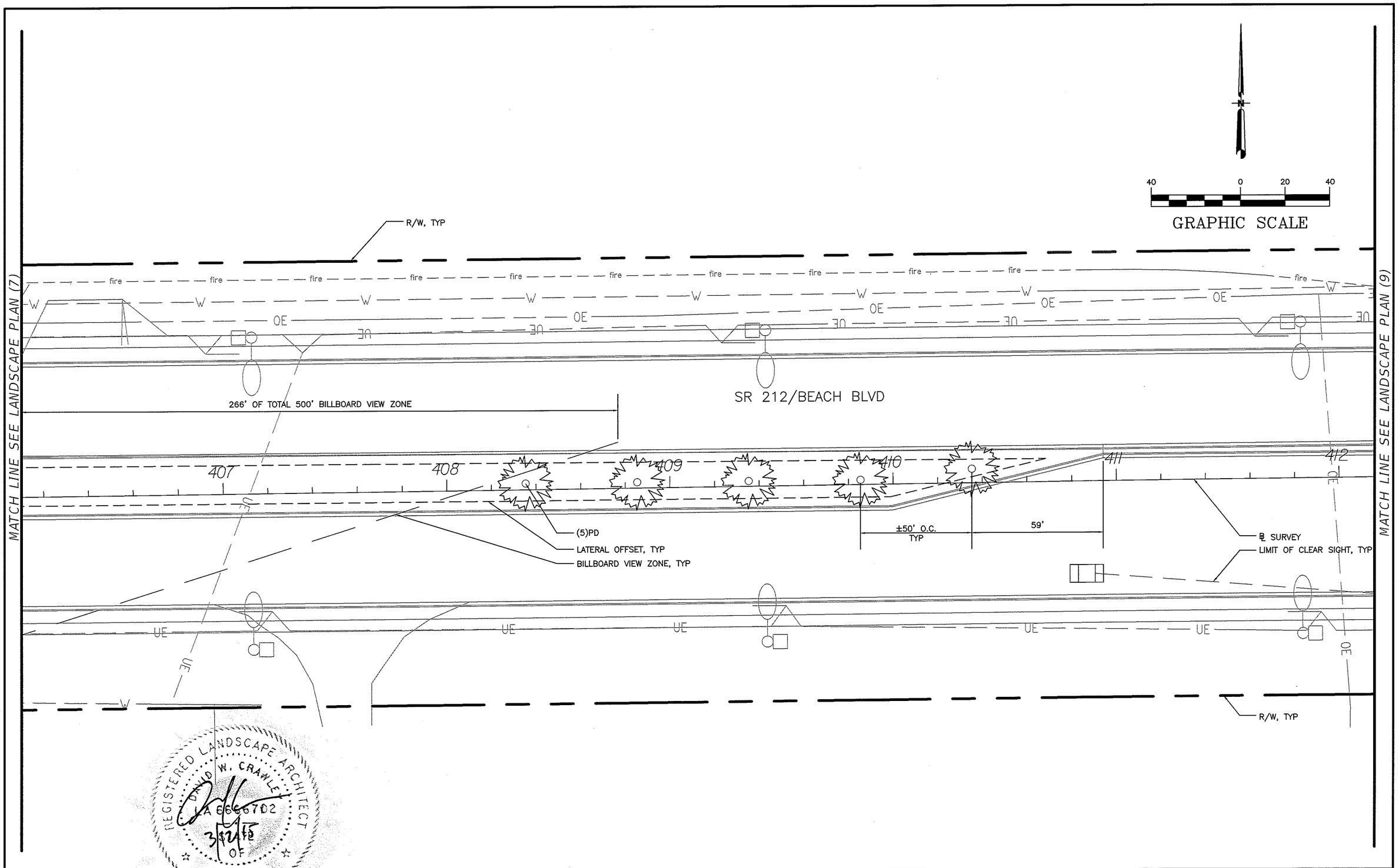
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (7)

SHEET NO.
LD-14

Monday, March 09, 2015 9:27am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD07



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7650 West Courtney
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C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (8)

SHEET NO.
LD-15

Monday, March 09, 2015 9:27am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD01

MATCH LINE SEE LANDSCAPE PLAN (8)

MATCH LINE SEE LANDSCAPE PLAN (10)

CENTRAL PARKWAY

SR 212/BEACH BLVD

SIGNALIZED INTERSECTION

GRAPHIC SCALE

40 0 20 40

R/W, TYP

LIMIT OF CLEAR SIGHT, TYP

℄ SURVEY

60' OF TOTAL 500' BILLBOARD VIEW ZONE

BILLBOARD VIEW ZONE, TYP

R/W, TYP

LIMIT OF CLEAR SIGHT, TYP

413 414 415 416 417 418

SD OE W fire UE SS

REGISTERED LANDSCAPE ARCHITECT DAVID W. CRAWLEY LA 6666702 STATE OF FLORIDA

3/10/15

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

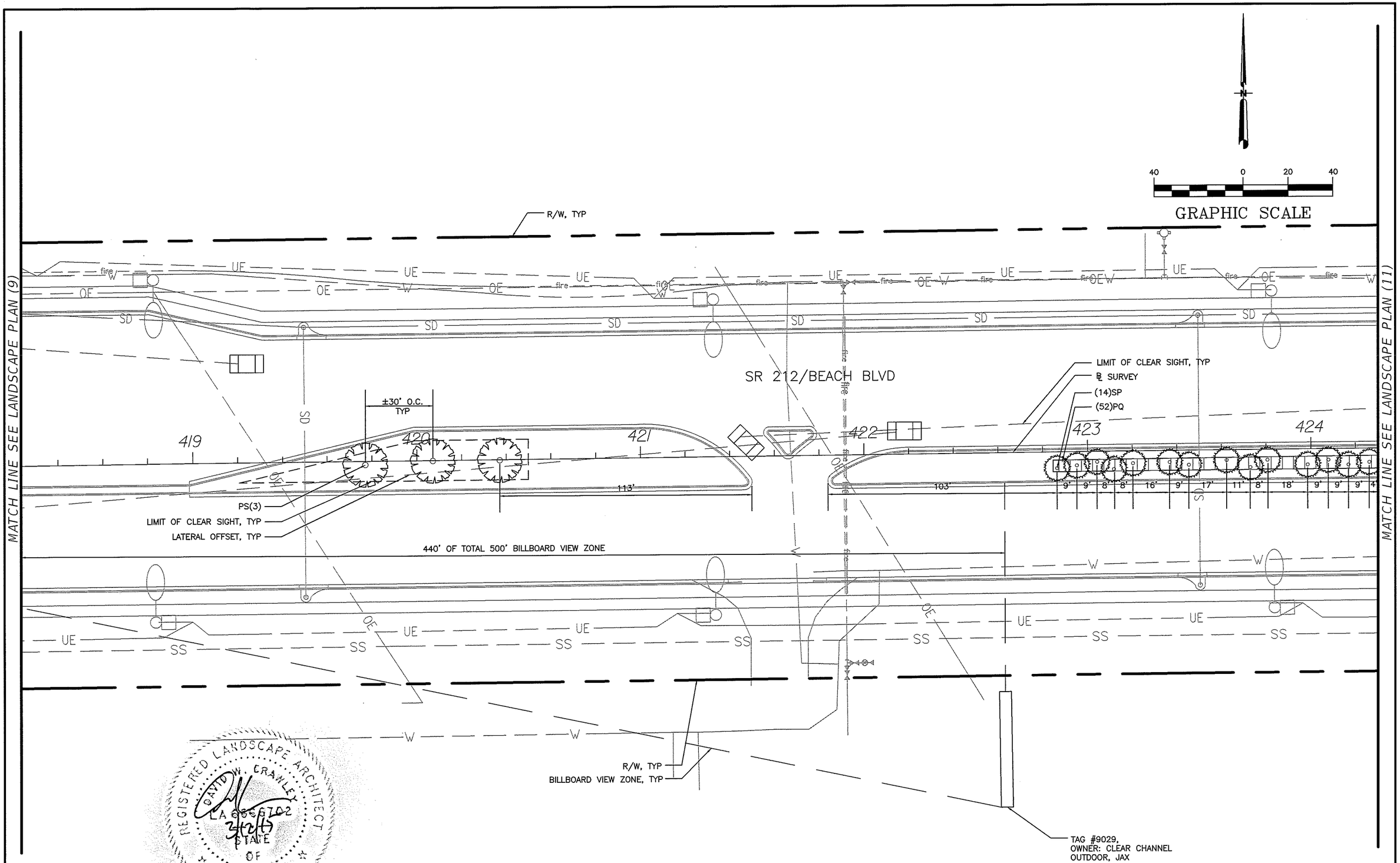
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (9)

SHEET NO.

LD-16

Monday, March 09, 2015 9:27am S:\Projects\ RDWY\ProjFdot\ProjFD0T\V8\43195515201\landscp\DSGNLD01.dwg PLANLD09



DATE	DESCRIPTION	DATE	DESCRIPTION

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7650 West Courtney
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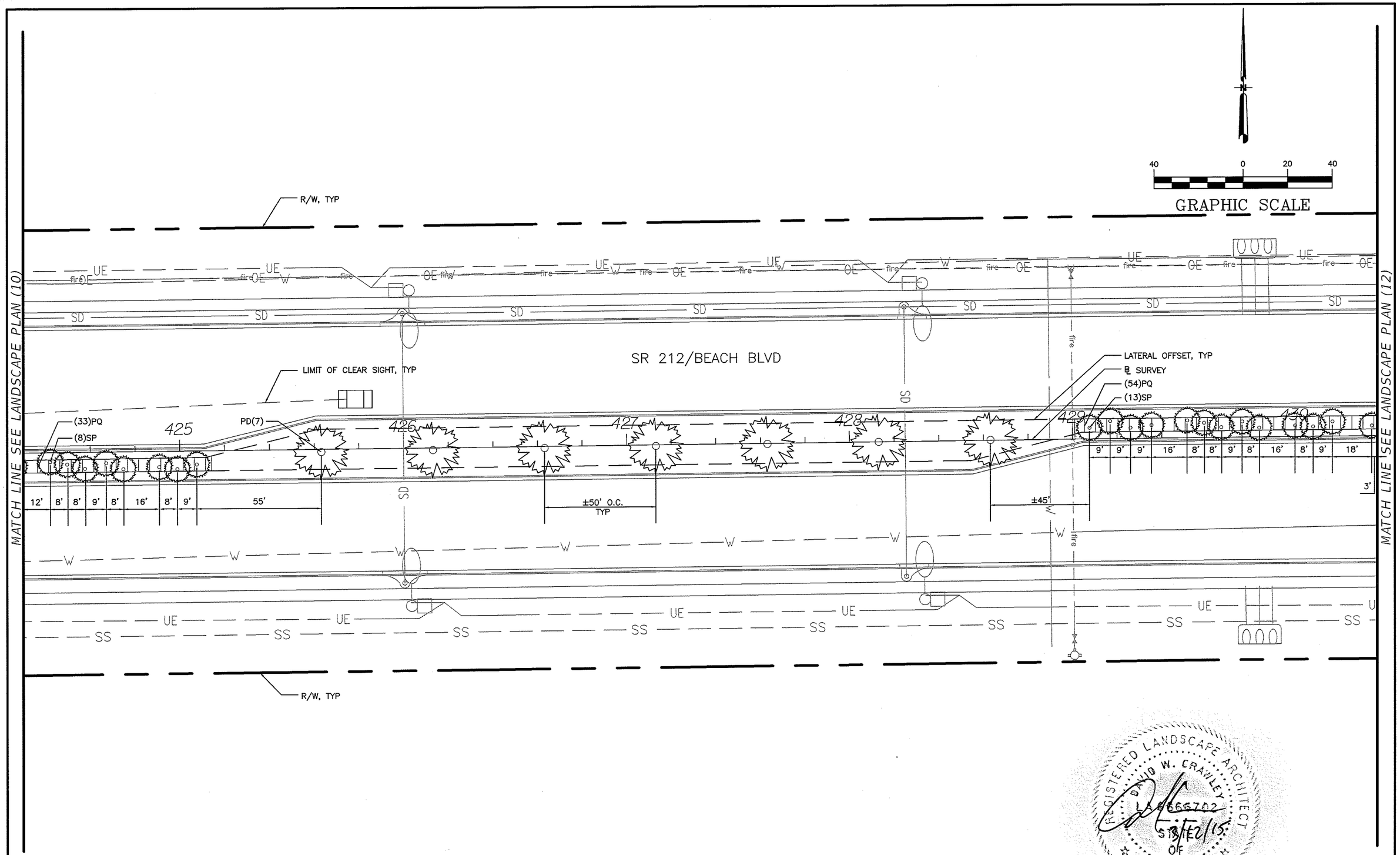
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (10)

SHEET NO.
LD-17

Monday, March 09, 2015 9:27am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD1C



REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 6666702
STATE OF FLORIDA
2/15

REVISIONS			
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DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

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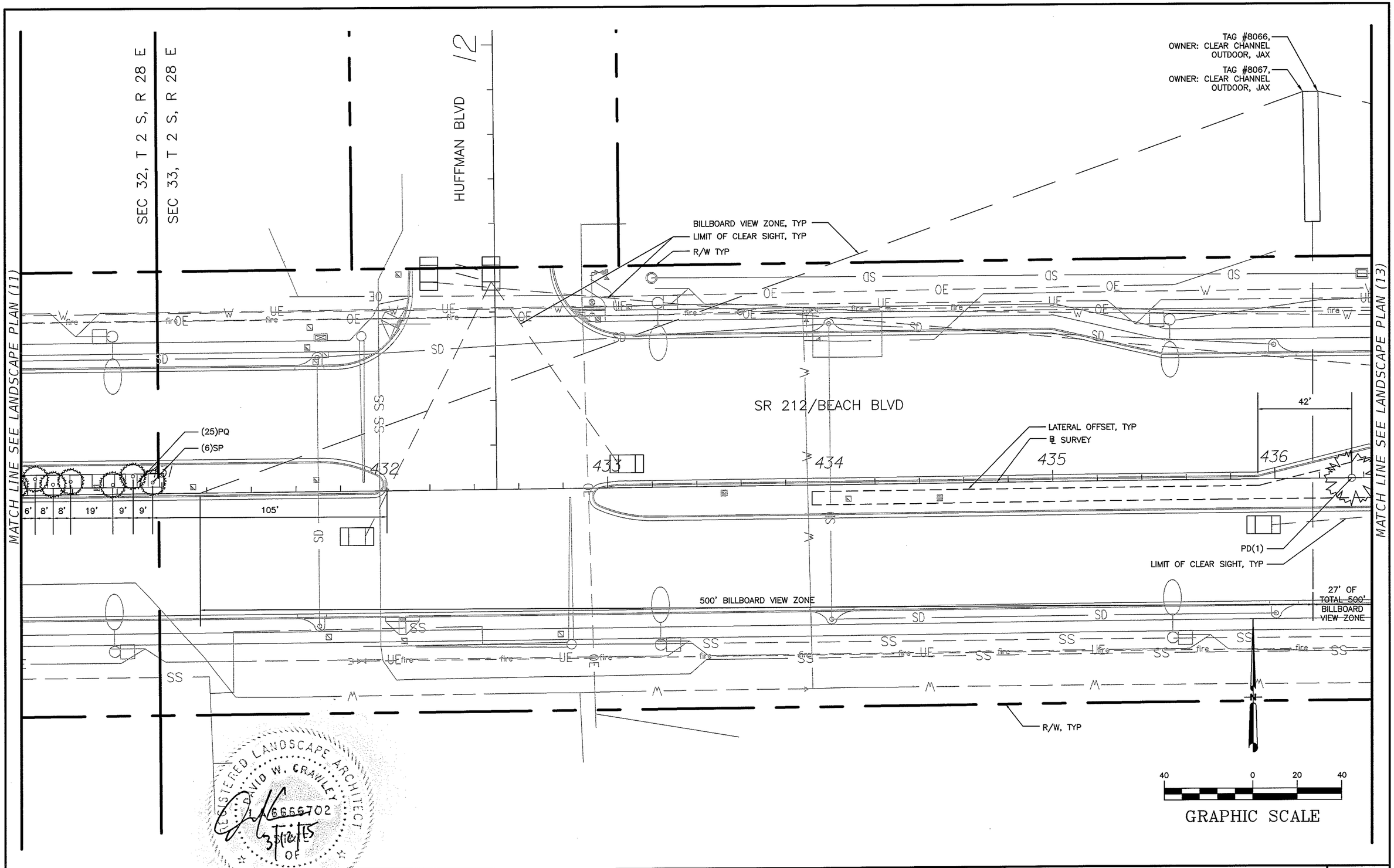
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (11)

SHEET NO.
LD-18

Monday, March 09, 2015 9:28am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD11



REGISTERED LANDSCAPE ARCHITECT DAVID W. CRAWLEY 6666702 STATE OF FLORIDA

REVISIONS DATE	DESCRIPTION	DATE	DESCRIPTION

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STATE OF FLORIDA
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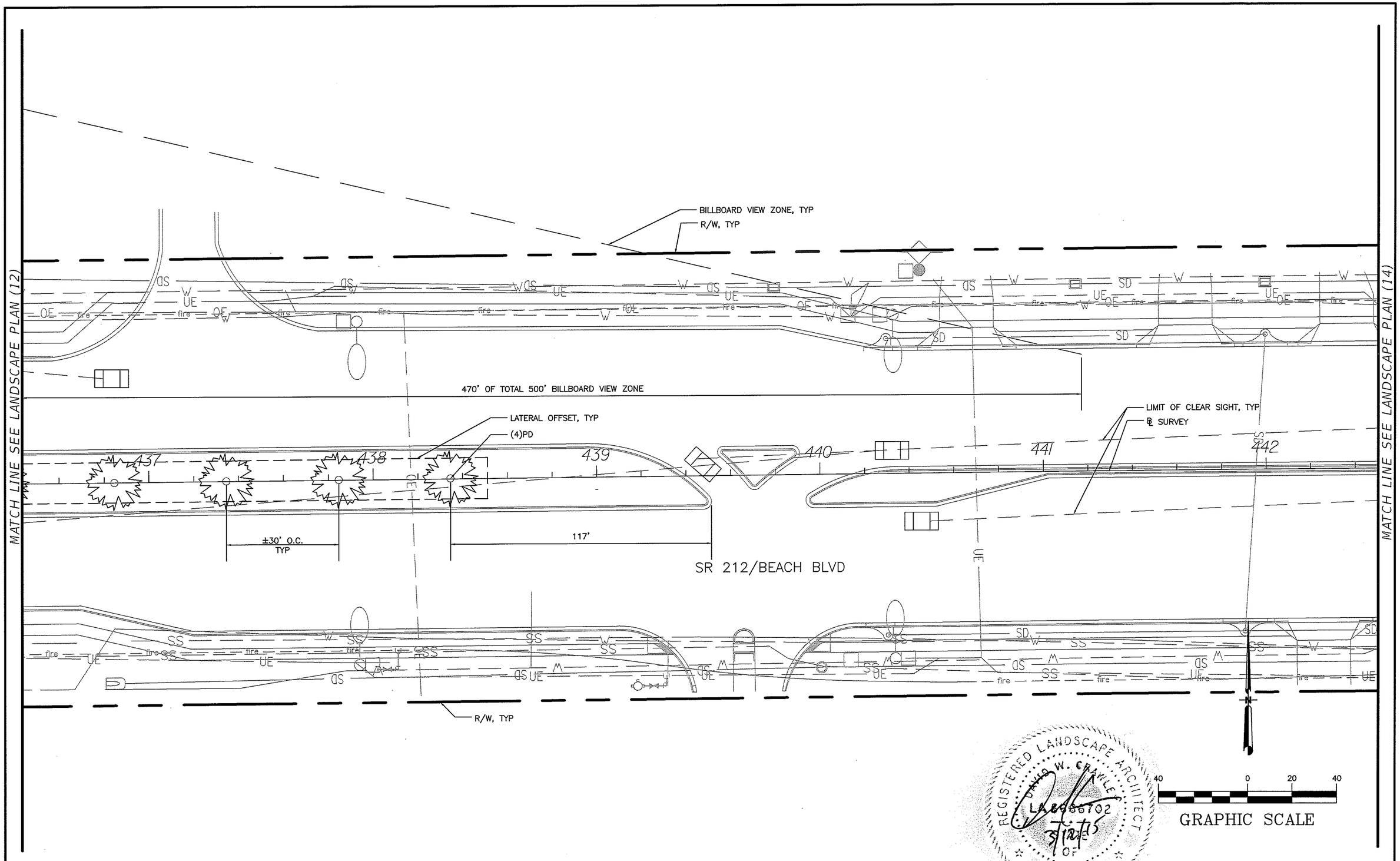
LANDSCAPE PLAN (12)

SHEET NO.
LD-19

Monday, March 09, 2015 9:28am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD12



REVISIONS			
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STATE OF FLORIDA
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (13)

SHEET NO.
LD-20

Monday, March 09, 2015 9:28am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD13

MATCH LINE SEE LANDSCAPE PLAN (13)

MATCH LINE SEE LANDSCAPE PLAN (15)

TAG #8064, OWNER: CLEAR CHANNEL OUTDOOR, JAX

TAG #8065, OWNER: CLEAR CHANNEL OUTDOOR, JAX

MEADOWBROOK BLVD

BILLBOARD VIEW ZONE, TYP

R/W, TYP

LIMIT OF CLEAR SIGHT, TYP

SR 212/BEACH BLVD

℄ SURVEY

LATERAL OFFSET, TYP

PD(1)

443 444 445 446 447 448

34'

500' BILLBOARD VIEW ZONE

51' OF TOTAL 500' BILLBOARD VIEW ZONE

LIMIT OF CLEAR SIGHT, TYP

R/W, TYP

W UE OE fire SD SS

40 0 20 40

GRAPHIC SCALE

REGISTERED LANDSCAPE ARCHITECT DAVID W. CRAWLEY LA 6666207 STATE OF FLORIDA 3/12/15

REVISIONS			
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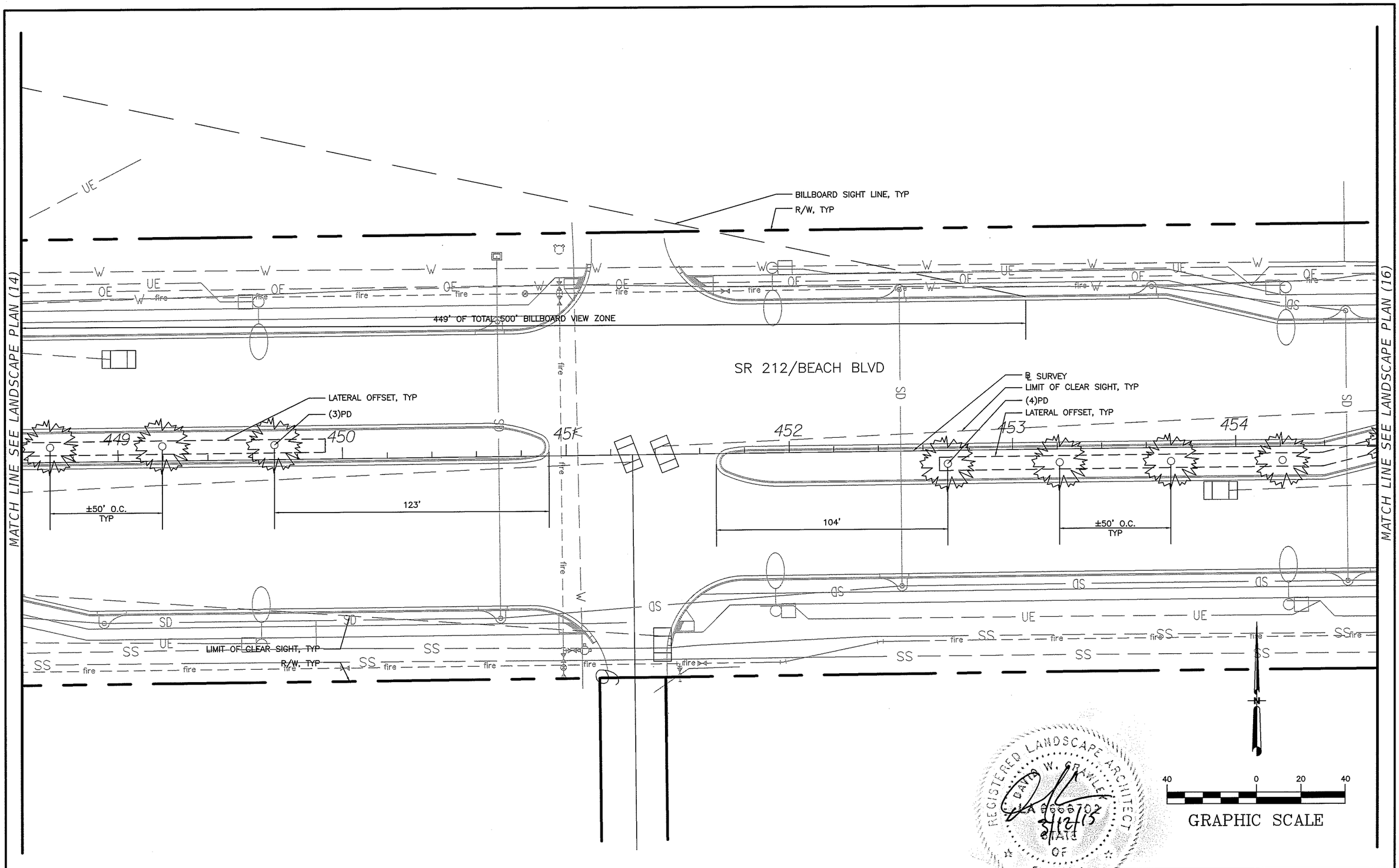
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (14)

SHEET NO.

LD-21

Monday, March 09, 2015 9:28am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD14



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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (15)

SHEET NO.
LD-22

Monday, March 09, 2015 9:29am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD15

MATCH LINE SEE LANDSCAPE PLAN (15)

MATCH LINE SEE LANDSCAPE PLAN (17)

12171-2 BEACH AP

SR 212/BEACH BLVD

R/W, TYP

LIMIT OF CLEAR SIGHT, TYP

LATERAL OFFSET, TYP

(5)PD

℄ SURVEY

LIMIT OF CLEAR SIGHT, TYP

(3)PD

LATERAL OFFSET, TYP

±50' O.C. TYP

455 456 457 458 459 460

105'

110'

±50' O.C. TYP

R/W, TYP

GRAPHIC SCALE

40 0 20 40

REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 6666207
3/12/15
STATE OF FLORIDA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

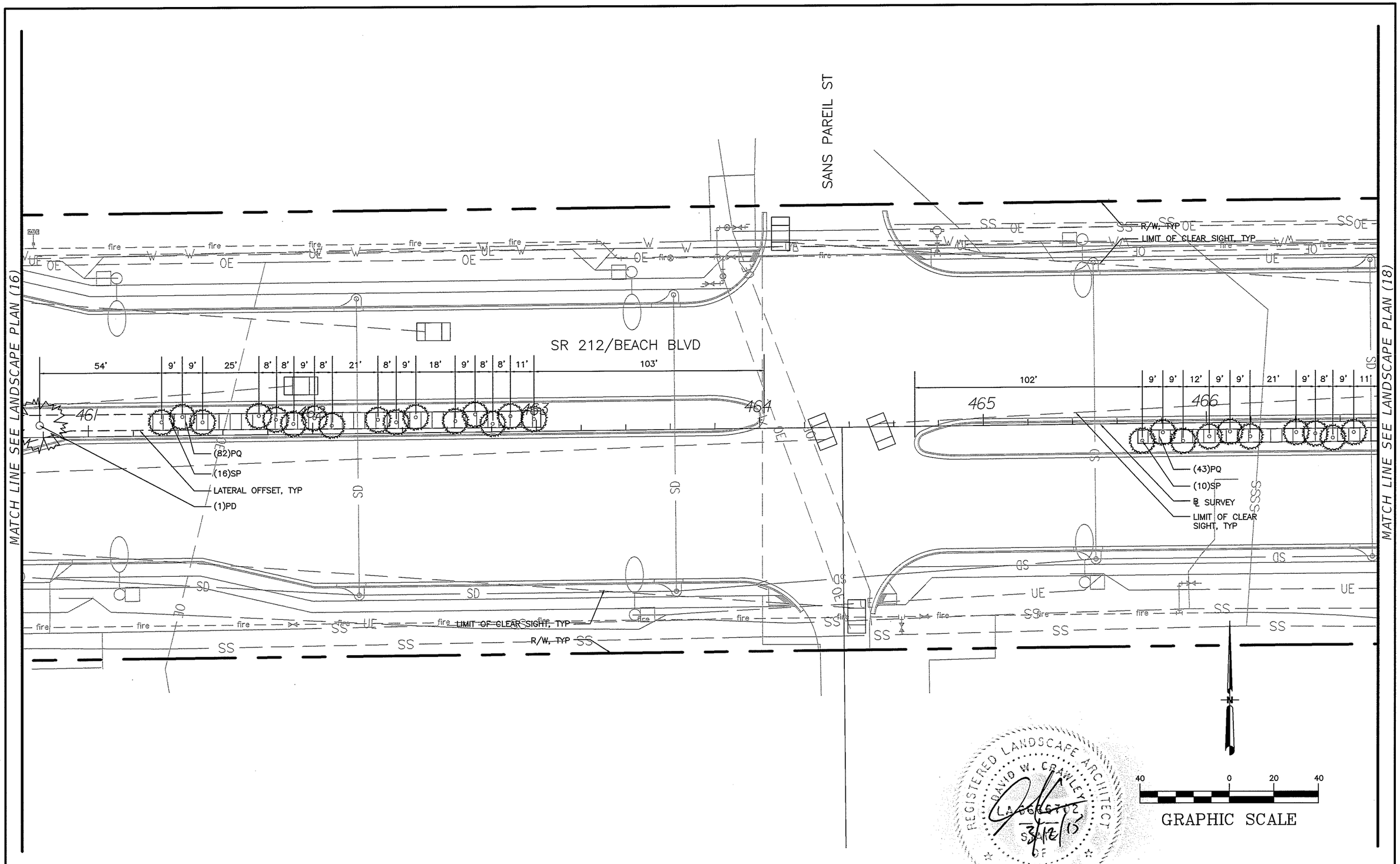
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (16)

SHEET NO.

LD-23

Monday, March 09, 2015 9:29am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD16



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

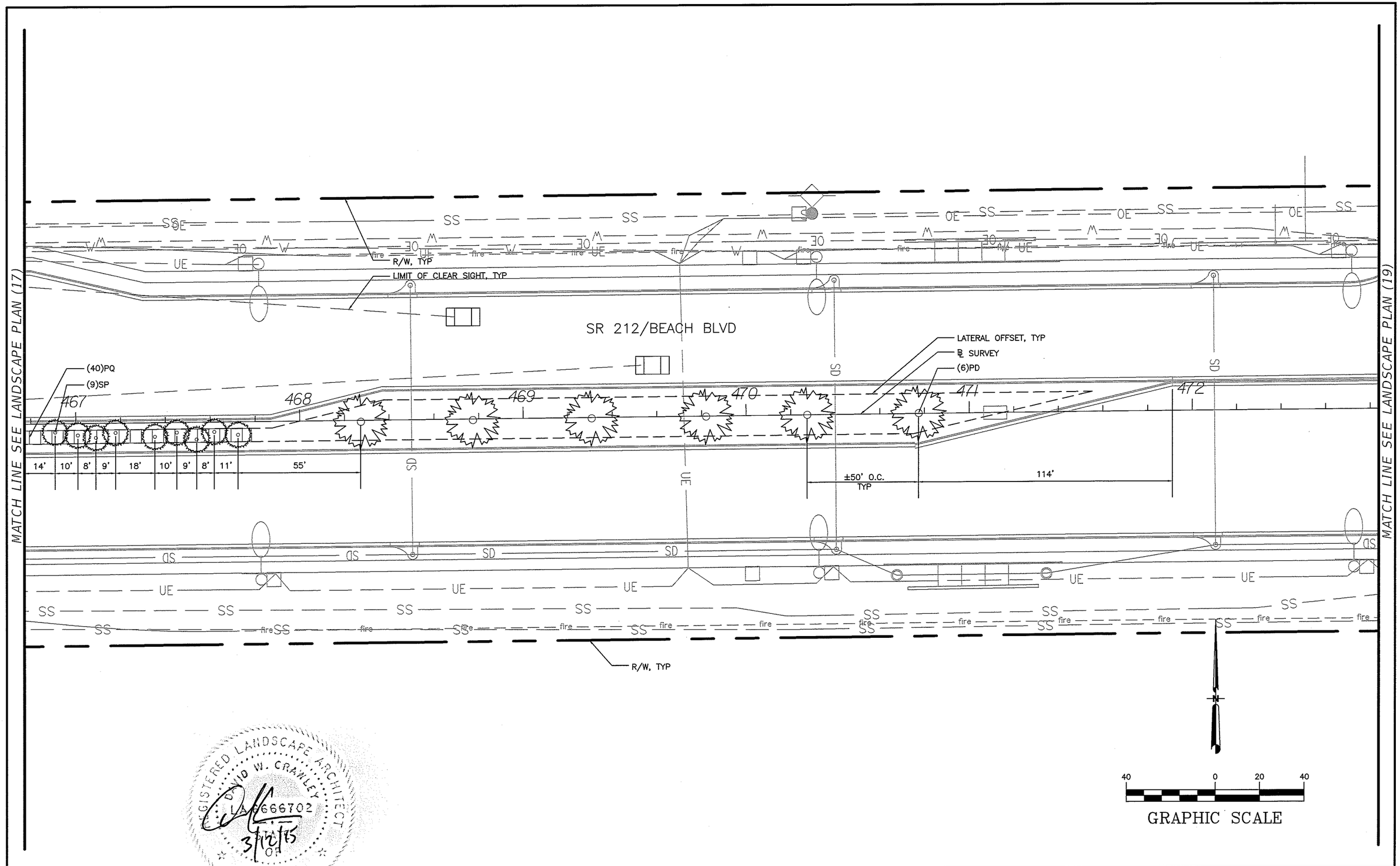
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (17)

SHEET NO.
LD-24

Monday, March 09, 2015 9:29am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD17



REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 6666702
3/12/15
STATE OF FLORIDA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

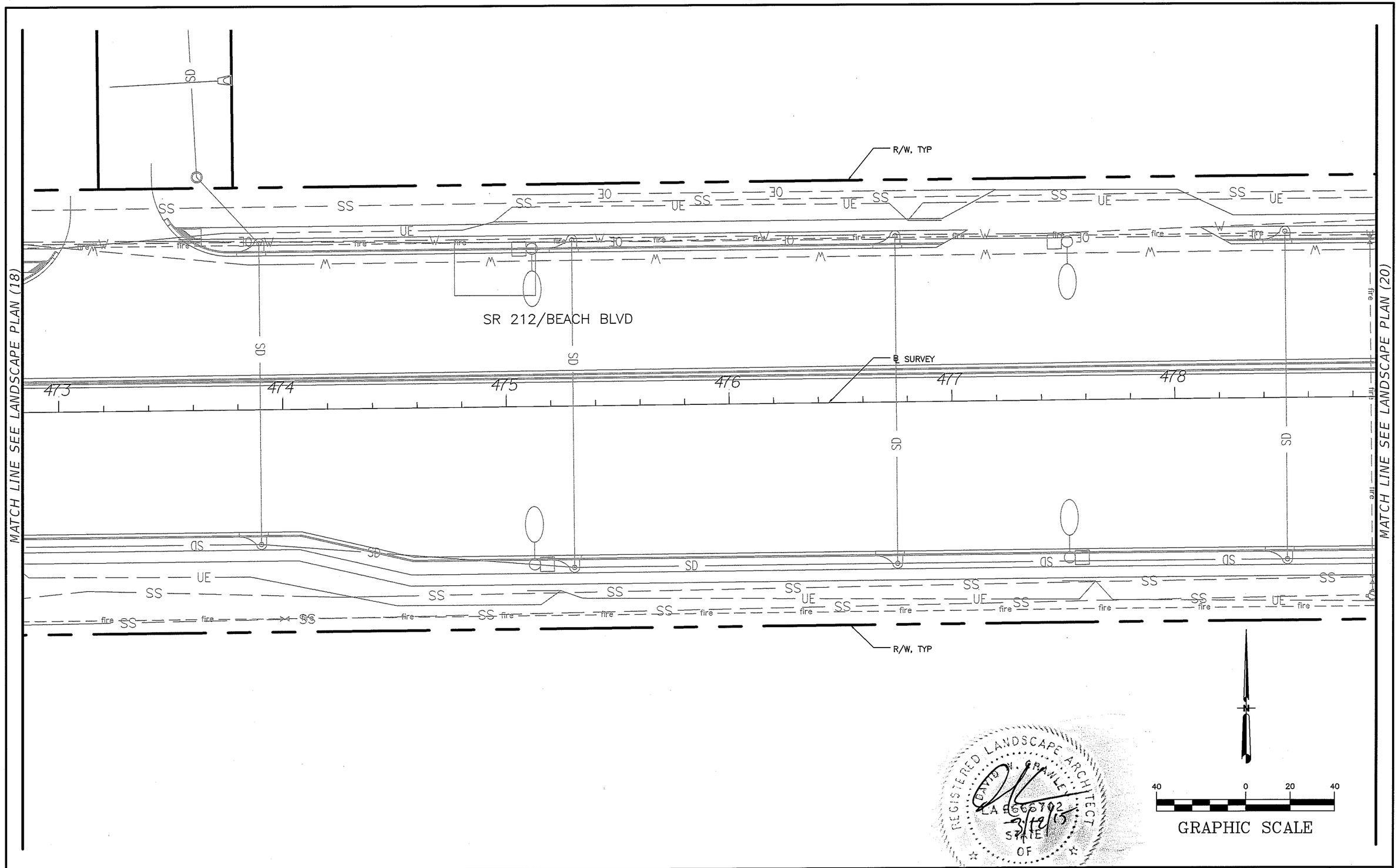
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (18)

SHEET NO.
LD-25

Monday, March 09, 2015 9:29am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD1E



REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 6666207
3/12/15
STATE OF FLORIDA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

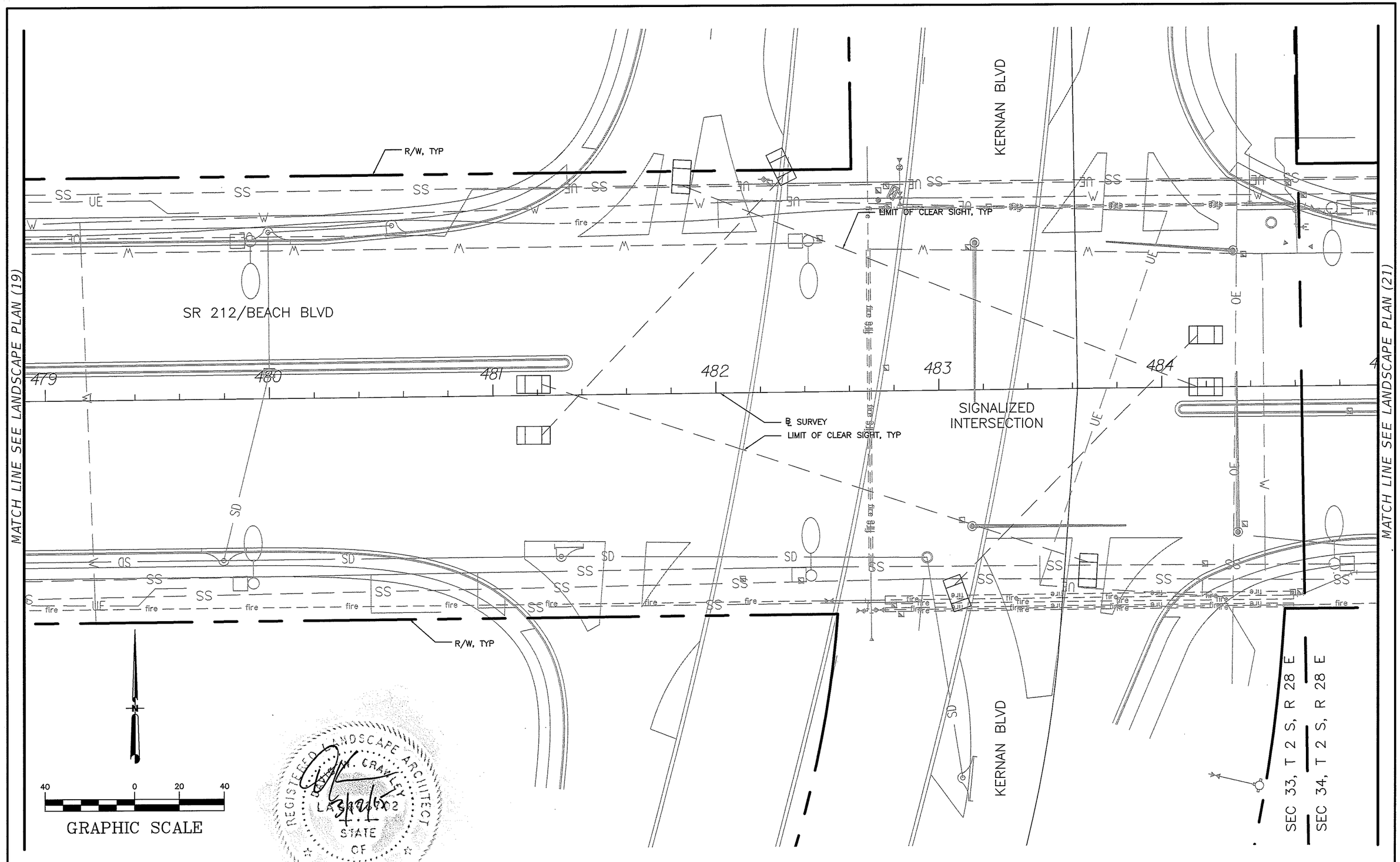
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (19)

SHEET NO.
LD-26

Monday, March 09, 2015 9:30am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD19



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

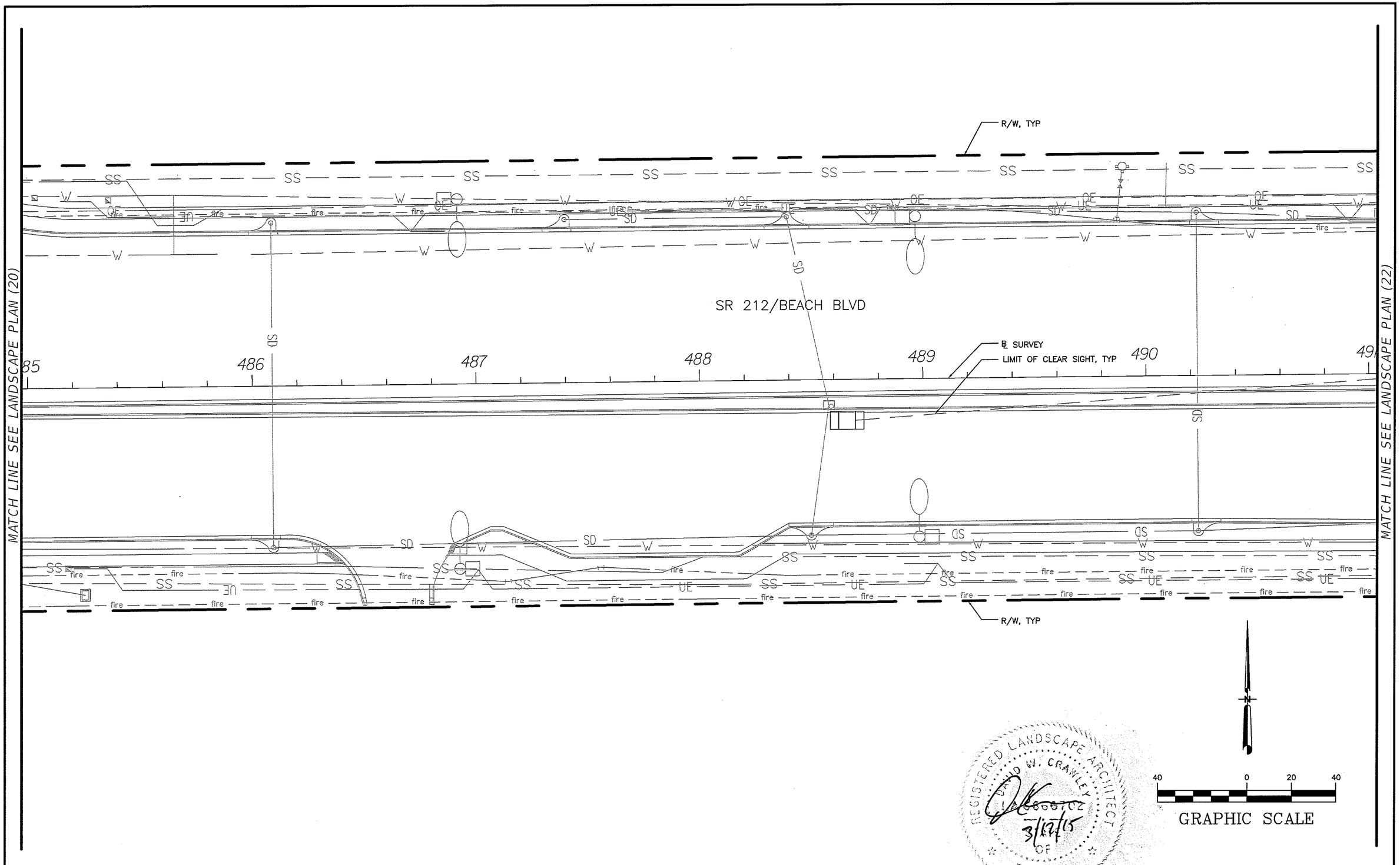
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (20)

SHEET NO.
LD-27

Monday, March 09, 2015 9:30am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD2C



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (21)

SHEET NO.
LD-28

Monday, March 09, 2015 9:30am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD21

MATCH LINE SEE LANDSCAPE PLAN (21)

MATCH LINE SEE LANDSCAPE PLAN (23)

R/W, TYP

SR 212/BEACH BLVD

LIMIT OF CLEAR SIGHT, TYP

LATERAL OFFSET, TYP

(2)PS

492

493

494

495

496

497

LATERAL OFFSET, TYP

℄ SURVEY

(3)PS

15'

±30' O.C. TYP

±30' O.C. TYP

36'

38'

±30' O.C. TYP

PS(2)

LATERAL OFFSET, TYP

LIMIT OF CLEAR SIGHT, TYP

R/W, TYP

40 0 20 40

GRAPHIC SCALE

REGISTERED LANDSCAPE ARCHITECT DAVID W. CRAWLEY LA# 6666207 STATE OF FLORIDA 3/12/15

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

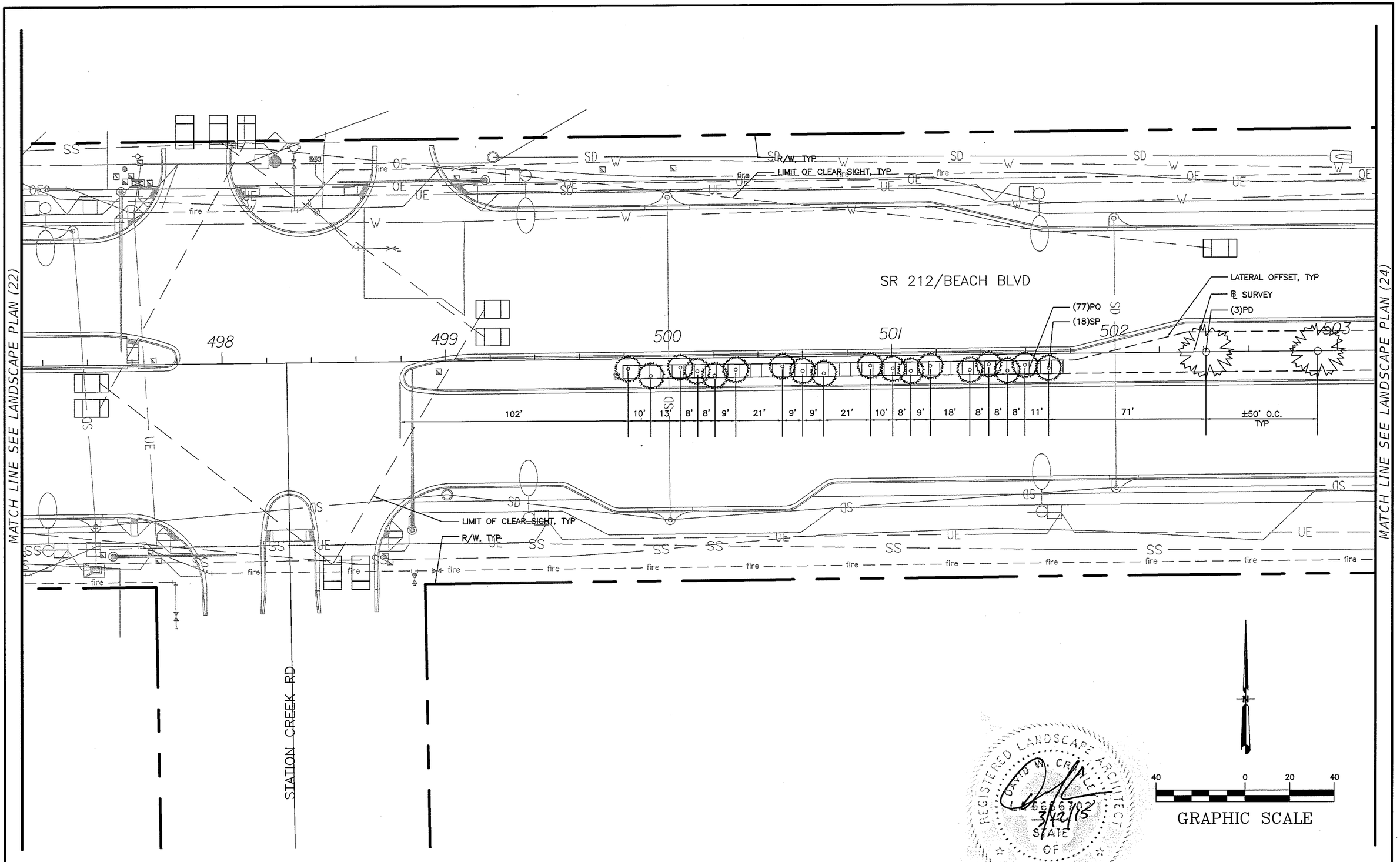
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (22)

SHEET NO.

LD-29

Monday, March 09, 2015 9:30am S:\Projects\ RDWY\ProjFdot\ProjFD0T\V8\43195515201\landscp\DSGNLD01.dwg PLANLD22



REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 6666207
3/12/15
STATE OF FLORIDA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

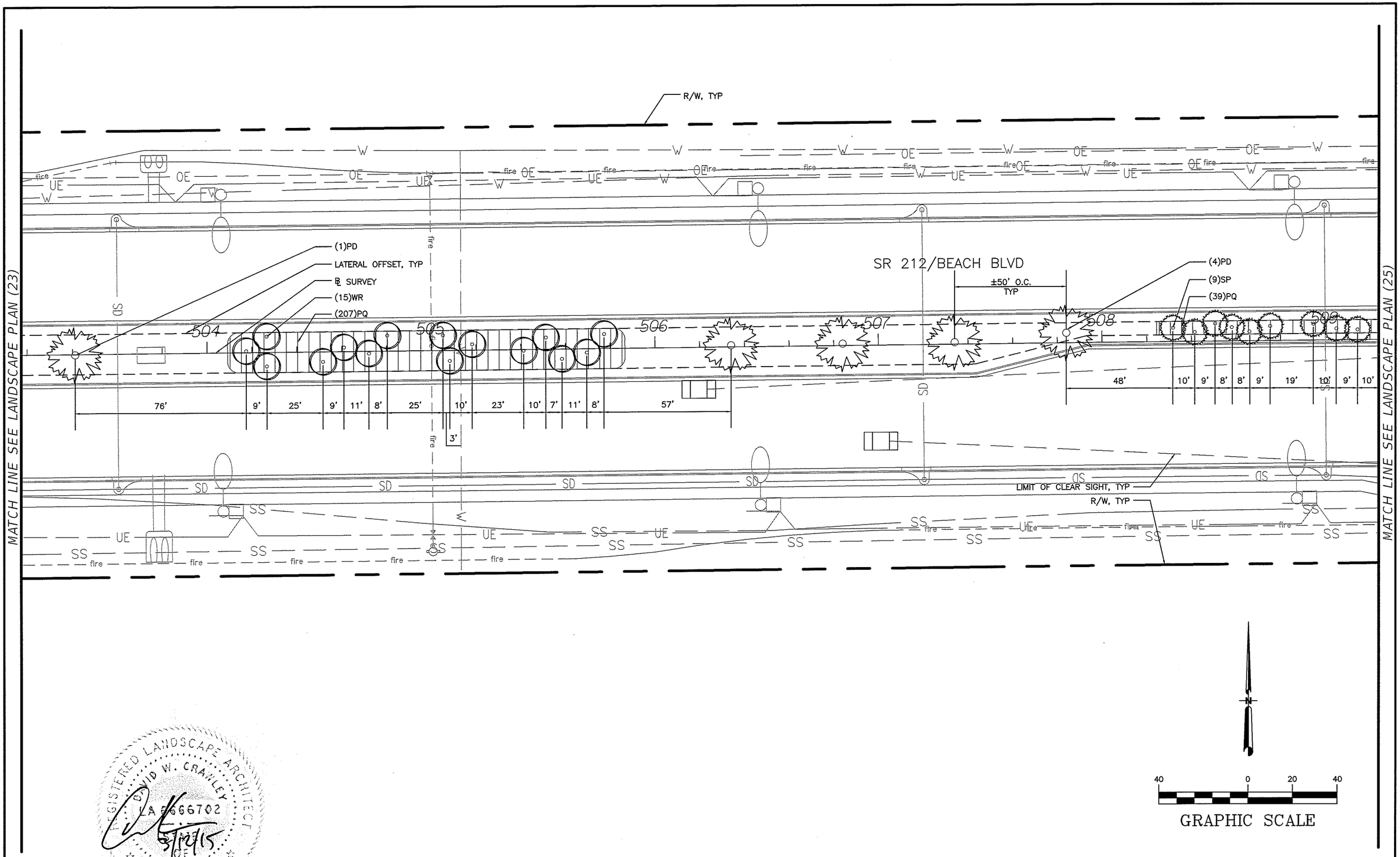
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (23)

SHEET NO.
LD-30

Monday, March 09, 2015 9:31am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD23



REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA # 6666702
STATE OF FLORIDA
3/19/15

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

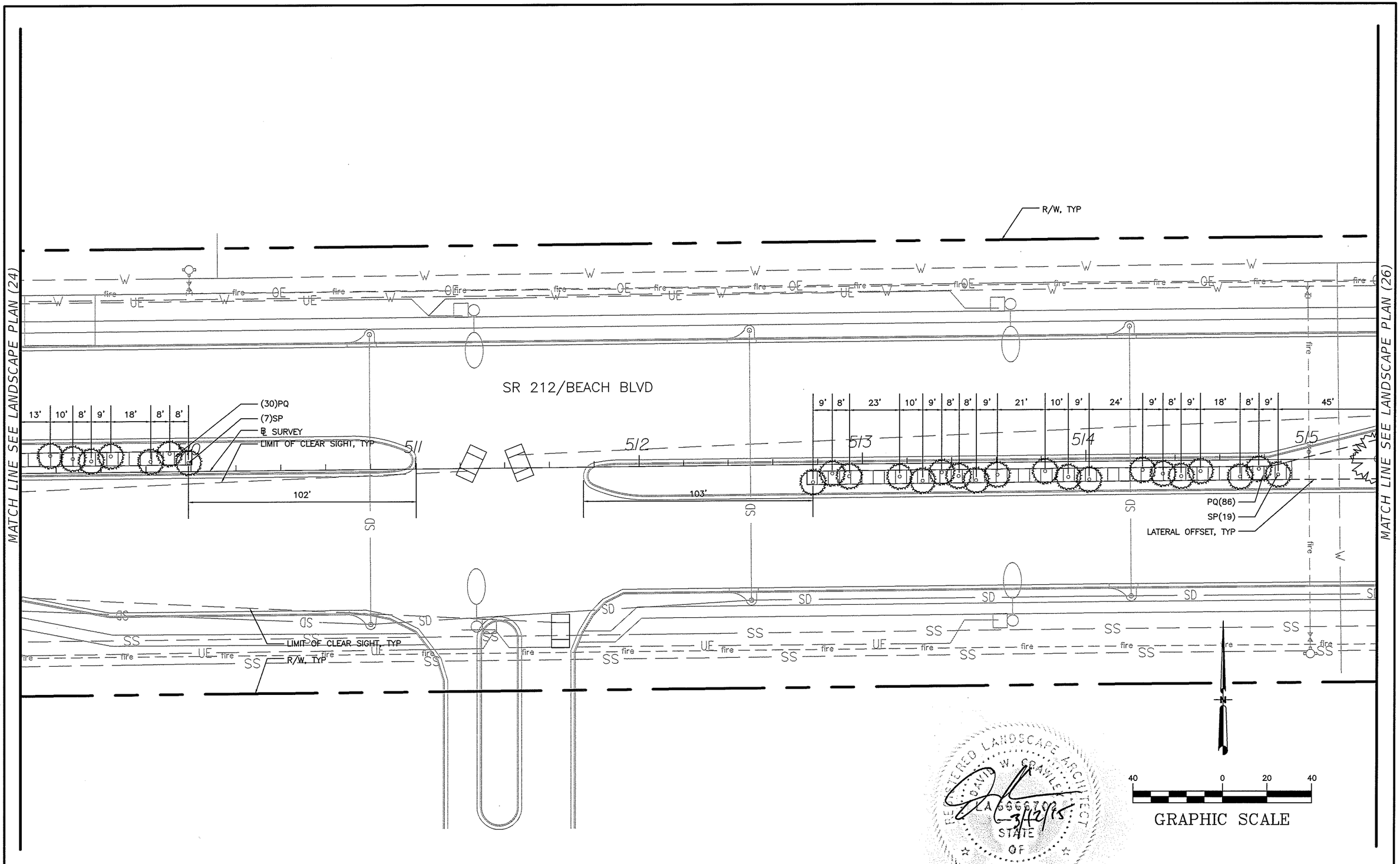
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (24)

SHEET NO.
LD-31

Monday, March 09, 2015 9:31am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD24



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

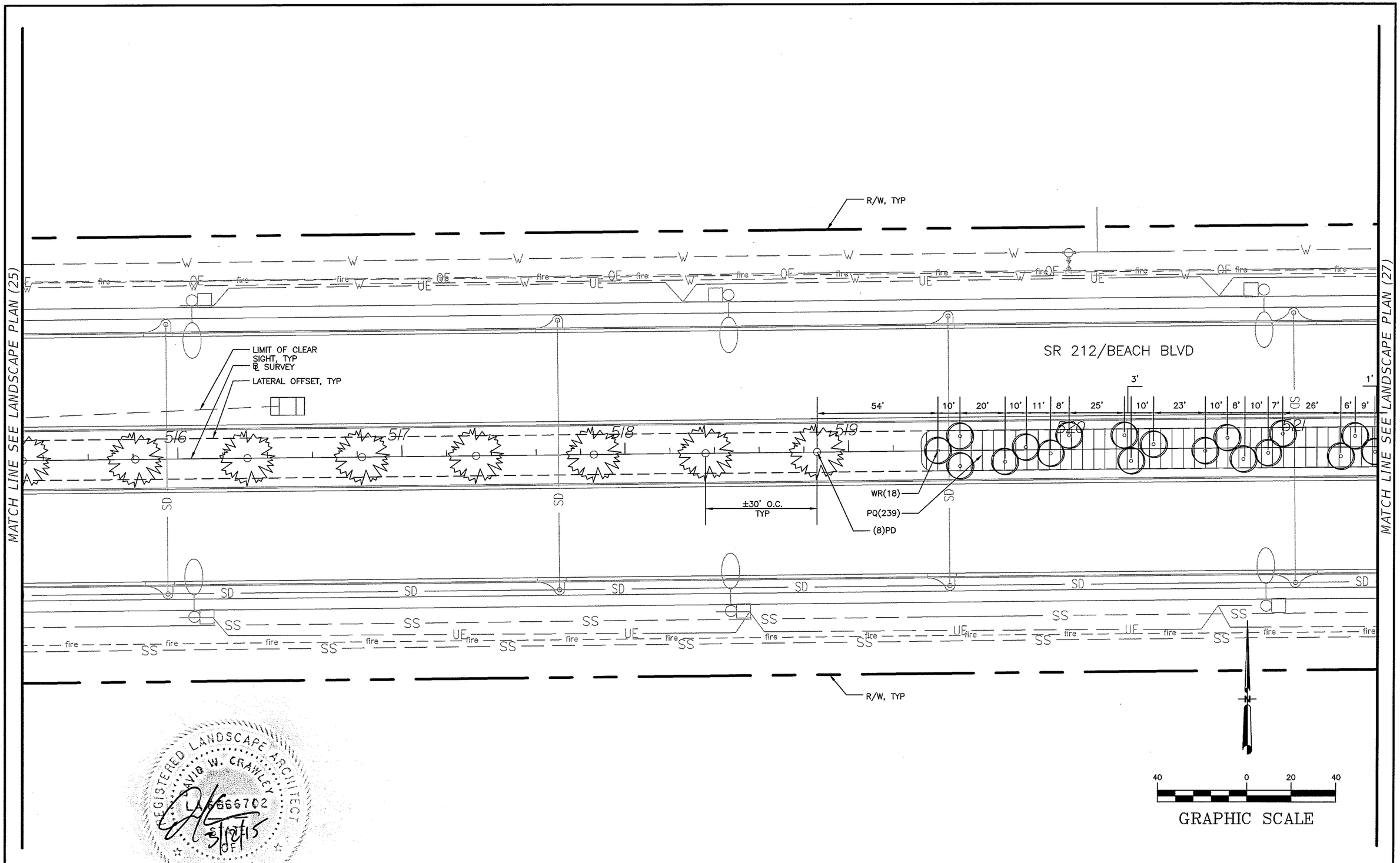
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (25)

SHEET NO.
LD-32

Monday, March 09, 2015 9:31am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD25



REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 6666702
3/9/15
STATE OF FLORIDA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

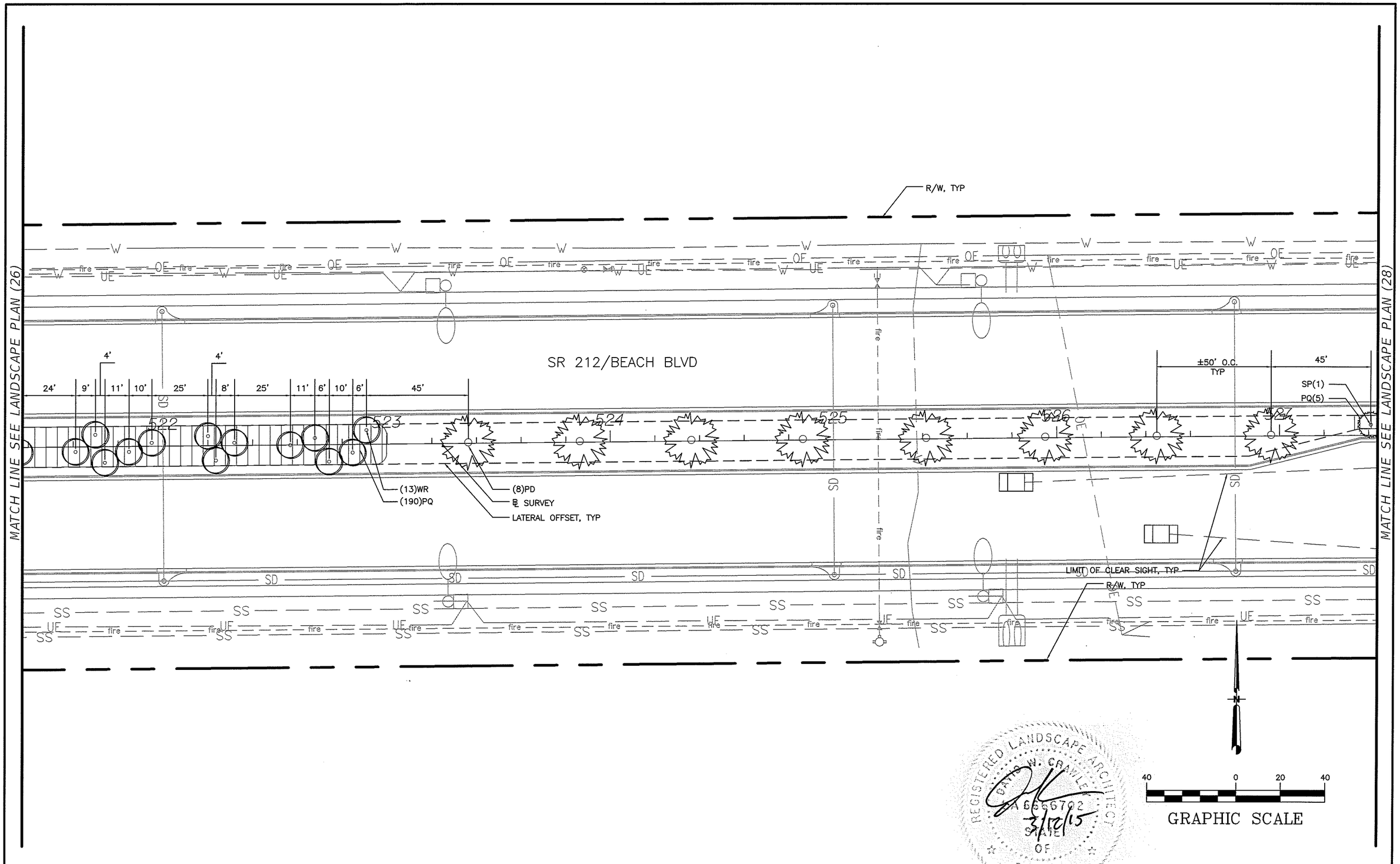
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (26)

SHEET NO.
LD-33

Monday, March 09, 2015 9:31am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD26



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

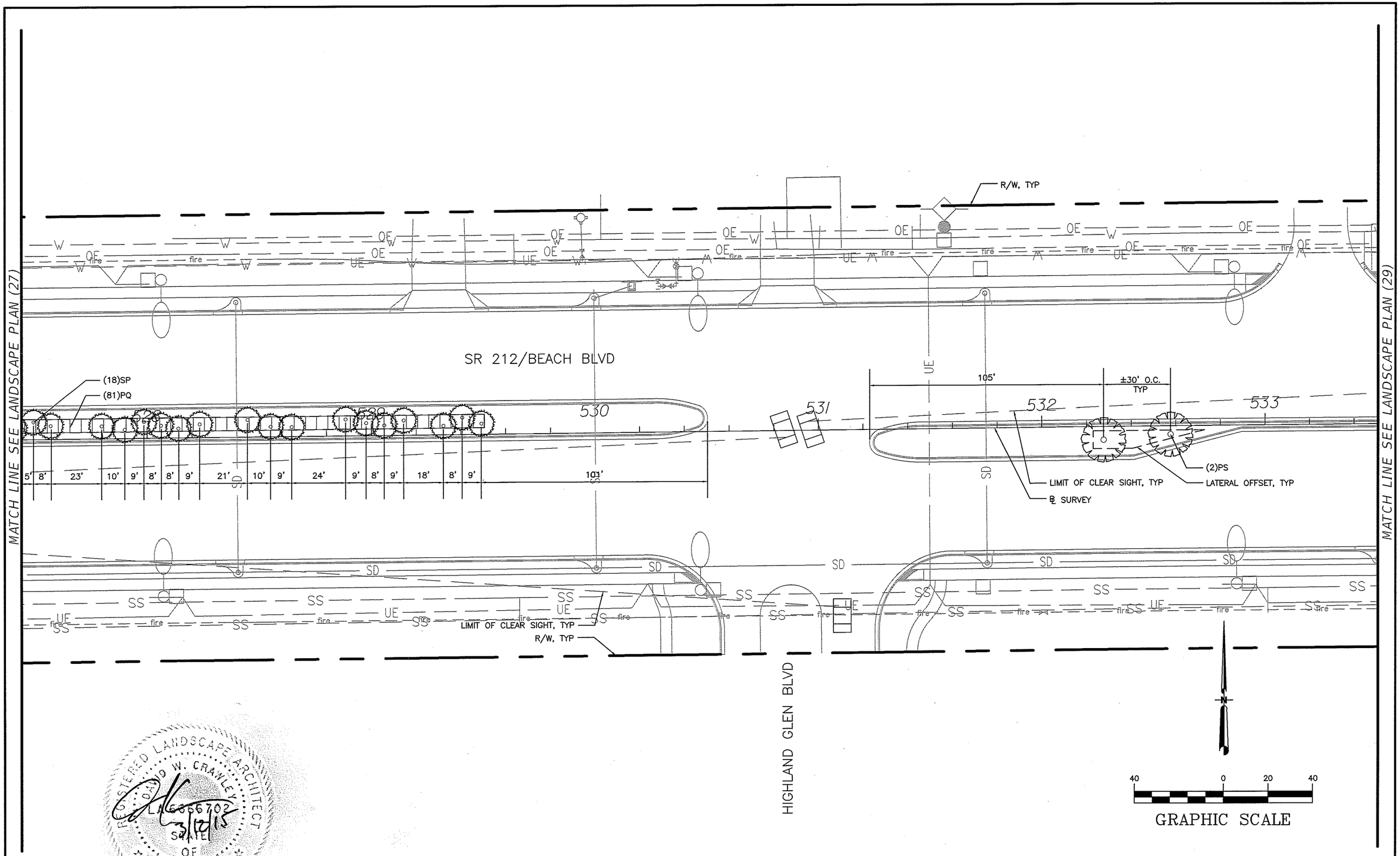
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (27)

SHEET NO.
LD-34

Monday, March 09, 2015 9:32am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD27



REGISTERED LANDSCAPE ARCHITECT DAVID W. CRAWLEY LA#6666207 STATE OF FLORIDA 3/12/15

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

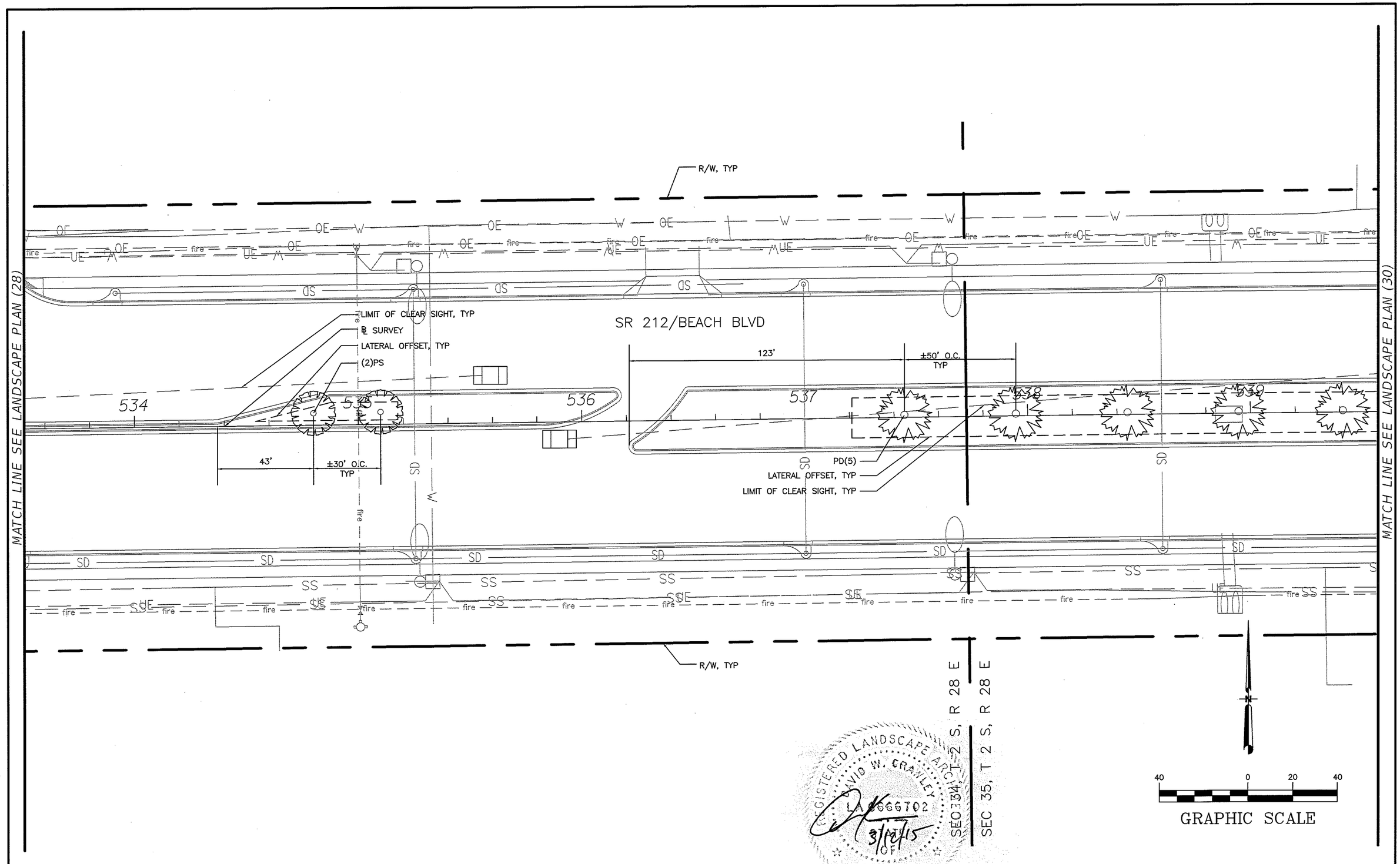
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (28)

SHEET NO.
LD-35

Monday, March 09, 2015 9:32am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD28



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

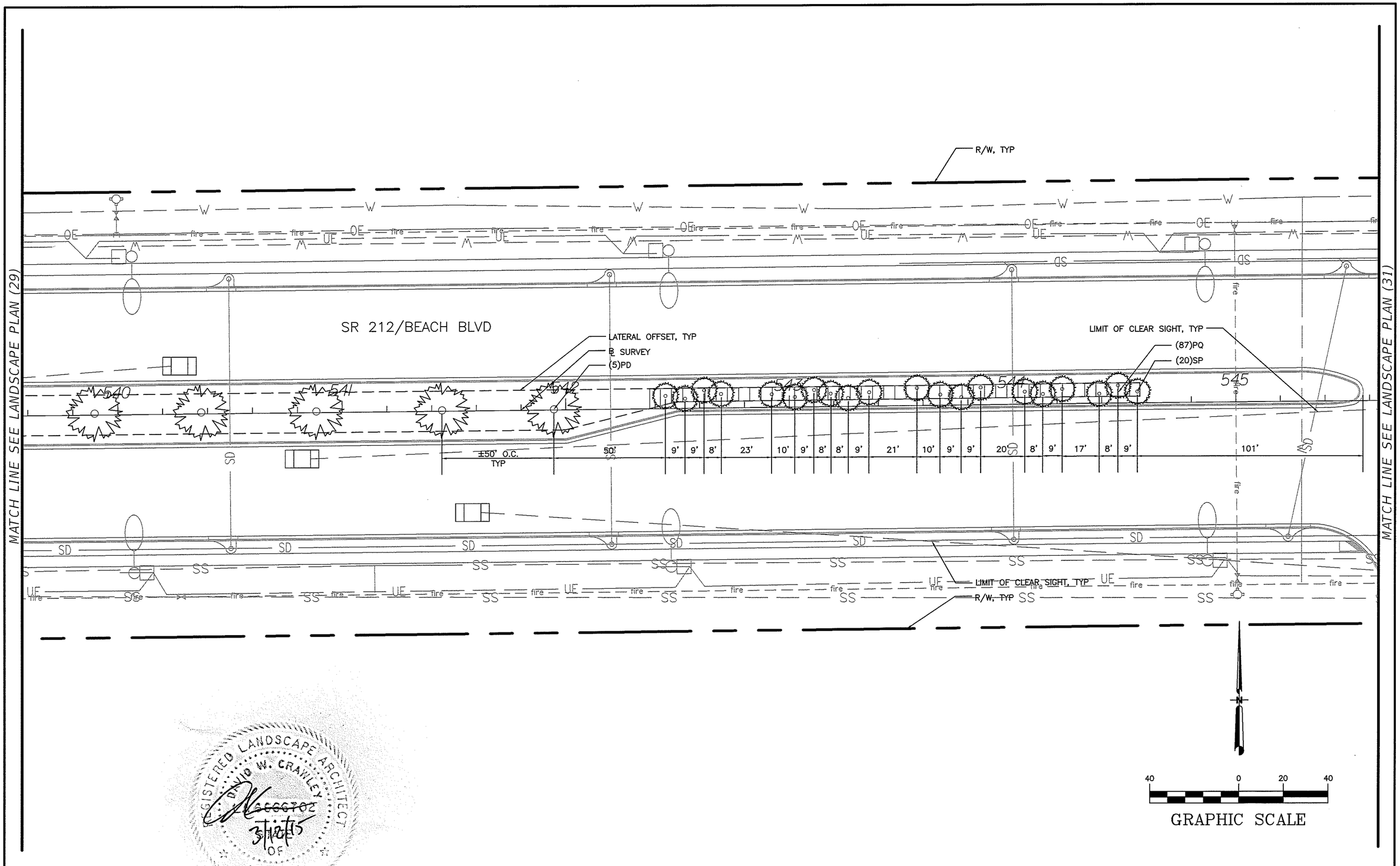
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (29)

SHEET NO.
LD-36

Monday, March 09, 2015 9:32am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD29



REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
STATE OF FLORIDA
3/12/15

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

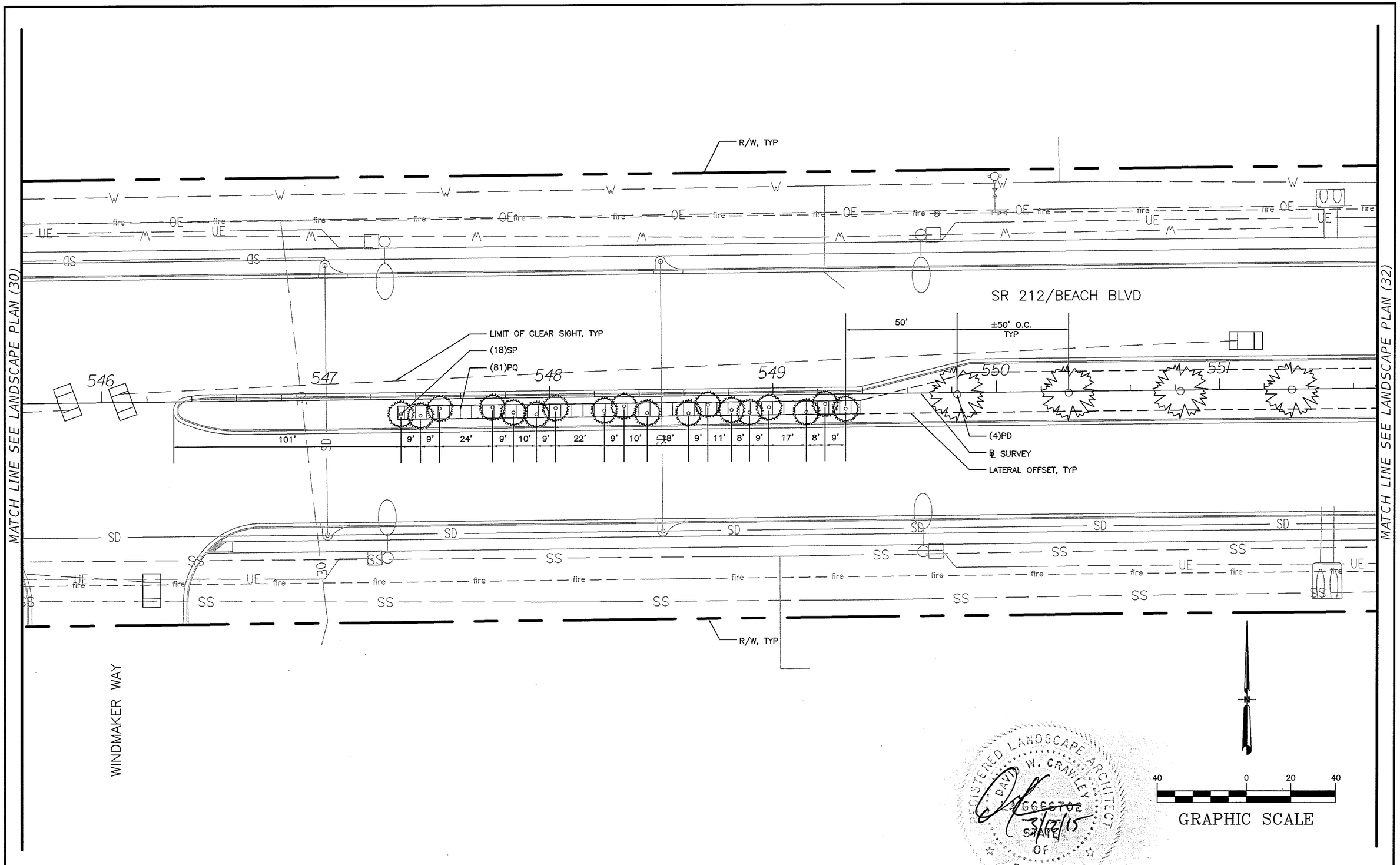
URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (30)

SHEET NO.
LD-37



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

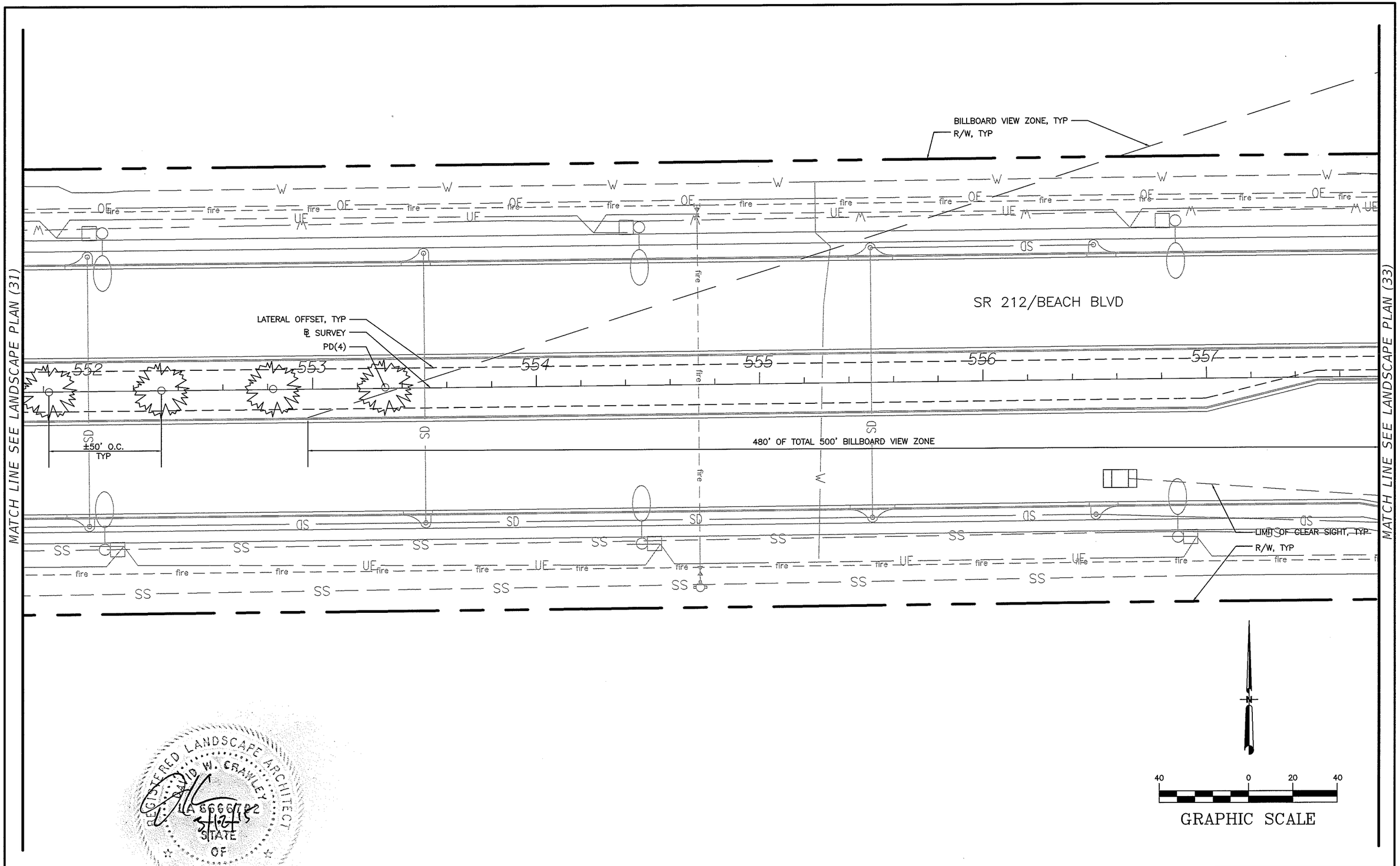
URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (31)

SHEET NO.
LD-38



REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 6666207
3/12/15
STATE OF FLORIDA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (32)

SHEET NO.
LD-39

TAG #2898,
OWNER: CLEAR CHANNEL
OUTDOOR, JAX

TAG #2897,
OWNER: CLEAR CHANNEL
OUTDOOR, JAX

BROUGHAM AVE

R/W, TYP

BILLBOARD VIEW ZONE, TYP

LIMIT OF CLEAR SIGHT, TYP

20' OF
TOTAL 500'
BILLBOARD
VIEW ZONE

500' BILLBOARD VIEW ZONE

SR 212/BEACH BLVD

123'

±50' O.C.
TYP

LATERAL OFFSET, TYP

(3)PD

558

559

560

561

562

563

SIGNALIZED
INTERSECTION

112'

±50' O.C.
TYP

PD(3)

℄ SURVEY

LATERAL OFFSET, TYP

LIMIT OF CLEAR SIGHT, TYP

R/W, TYP

BROUGHAM AVE

MATCH LINE SEE LANDSCAPE PLAN (32)

MATCH LINE SEE LANDSCAPE PLAN (34)

40 0 20 40

GRAPHIC SCALE

REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA#6666702
STATE OF FLORIDA
3/12/15

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (33)

SHEET NO.
LD-40

Wednesday, March 11, 2015 3:32pm S:\Projects\ RDWY\ProiFdot\ProiFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD33

MATCH LINE SEE LANDSCAPE PLAN (33)

W. GERONA DR

SR 212/BEACH BLVD

R/W, TYP

LIMIT OF CLEAR SIGHT, TYP

101'

LIMIT OF CLEAR SIGHT, TYP
℄ SURVEY

LATERAL OFFSET, TYP

(2)PD

564 565 566 567 568 569

±50' O.C.
TYP

60'

LIMIT OF CLEAR SIGHT, TYP

PD(1)

LATERAL OFFSET, TYP

R/W, TYP

MATCH LINE SEE LANDSCAPE PLAN (35)

REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 6666702
3/12/15
STATE OF FLORIDA

GRAPHIC SCALE

40 0 20 40

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

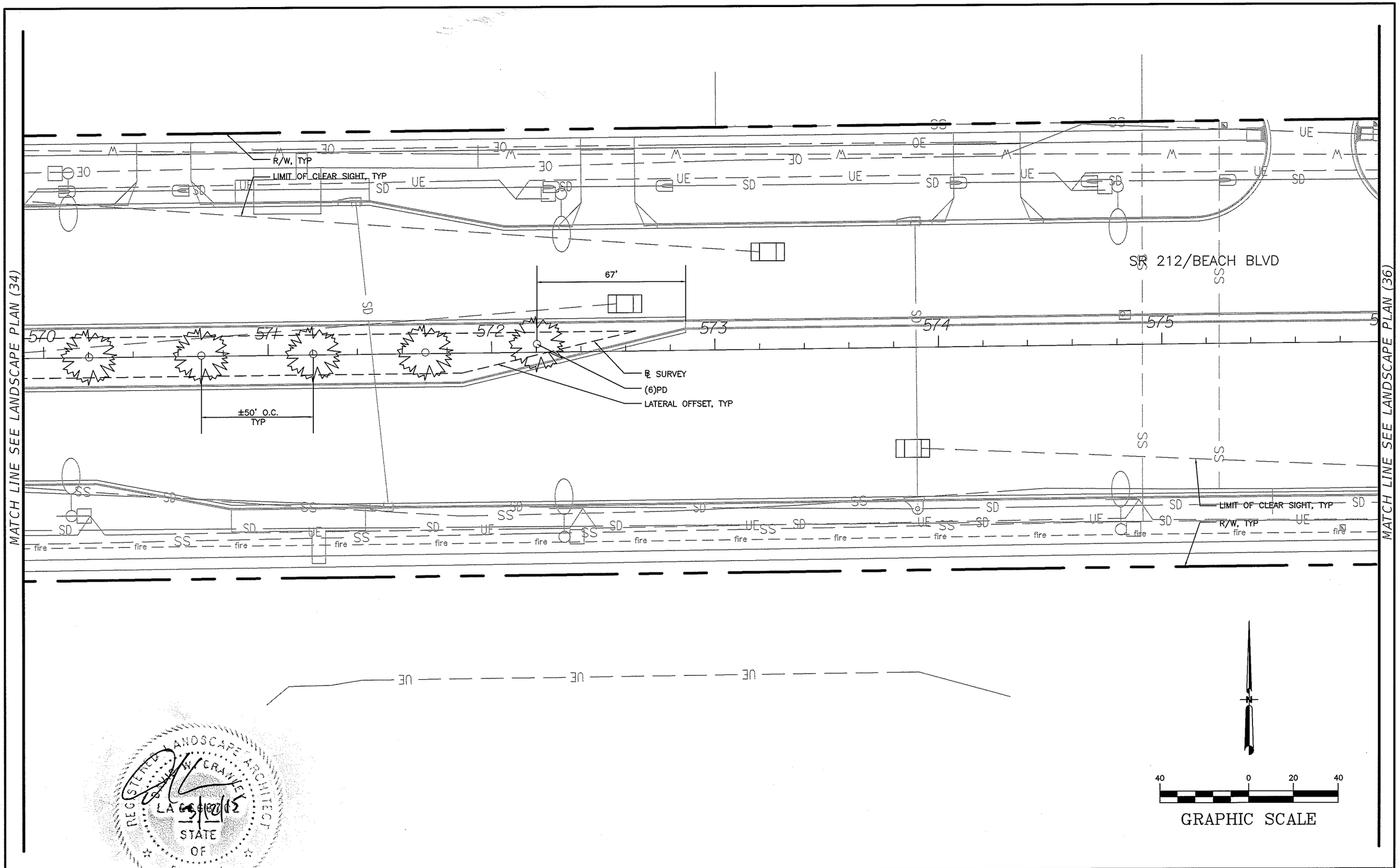
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (34)

SHEET NO.
LD-41

Monday, March 09, 2015 9:33am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD34



REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 6666207
5/12/15
STATE OF FLORIDA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (35)

SHEET NO.
LD-42

Monday, March 09, 2015 9:34am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD35

MATCH LINE SEE LANDSCAPE PLAN (35)

MATCH LINE SEE LANDSCAPE PLAN (37)

R/W, TYP

SR 212/BEACH BLVD

LIMIT OF CLEAR SIGHT, TYP

℄ SURVEY

576 577 578 579 580 581 582

SIGNALIZED INTERSECTION

LIMIT OF CLEAR SIGHT, TYP

R/W, TYP

HODGES BLVD

UE SS SD M

REGISTERED LANDSCAPE ARCHITECT DAVID W. CRAWLEY STATE OF FLORIDA

3/12/15

40 0 20 40

GRAPHIC SCALE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

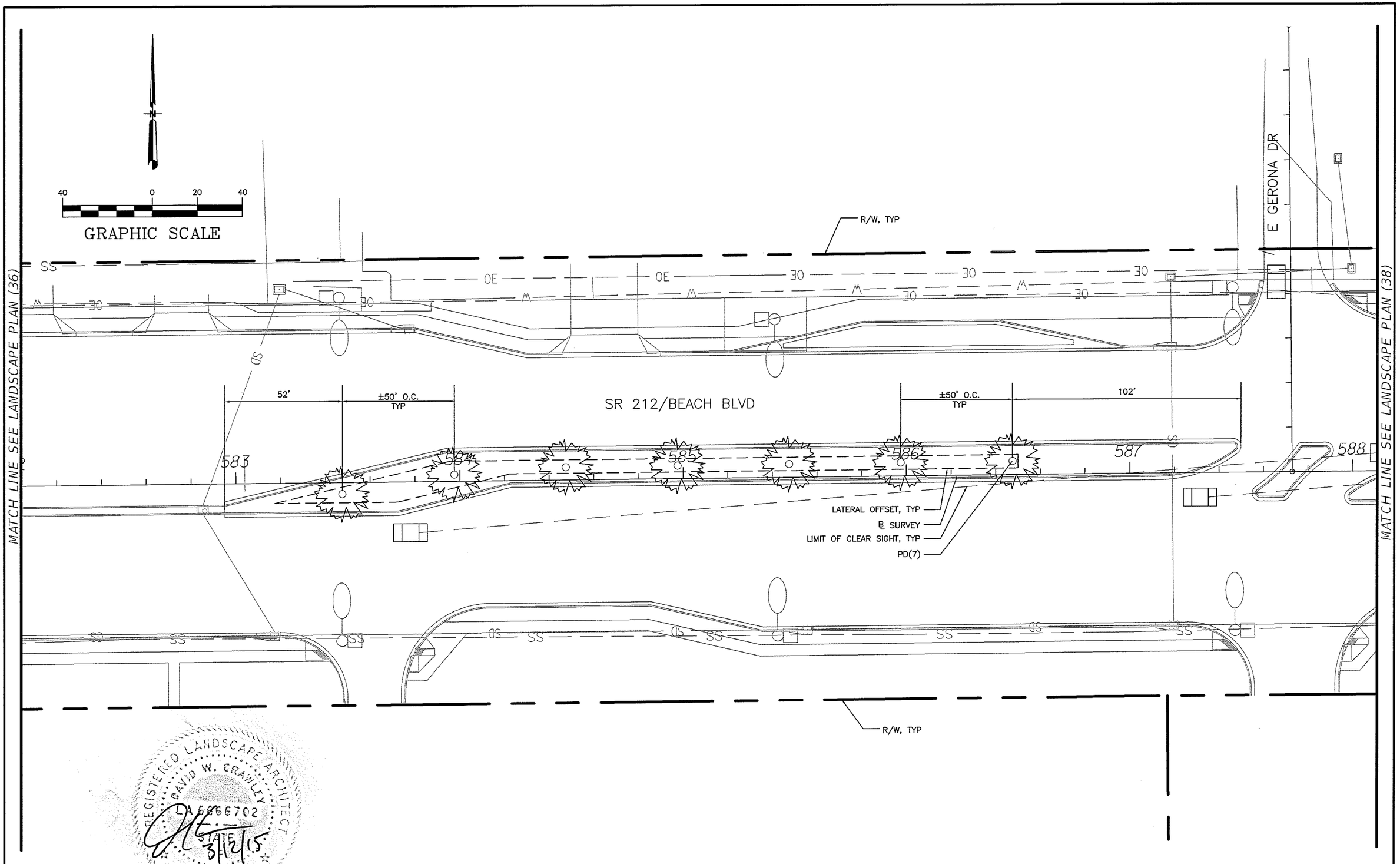
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (36)

SHEET NO.

LD-43

Monday, March 09, 2015 9:34am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD36



REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 6666702
STATE OF FLORIDA
3/12/15

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

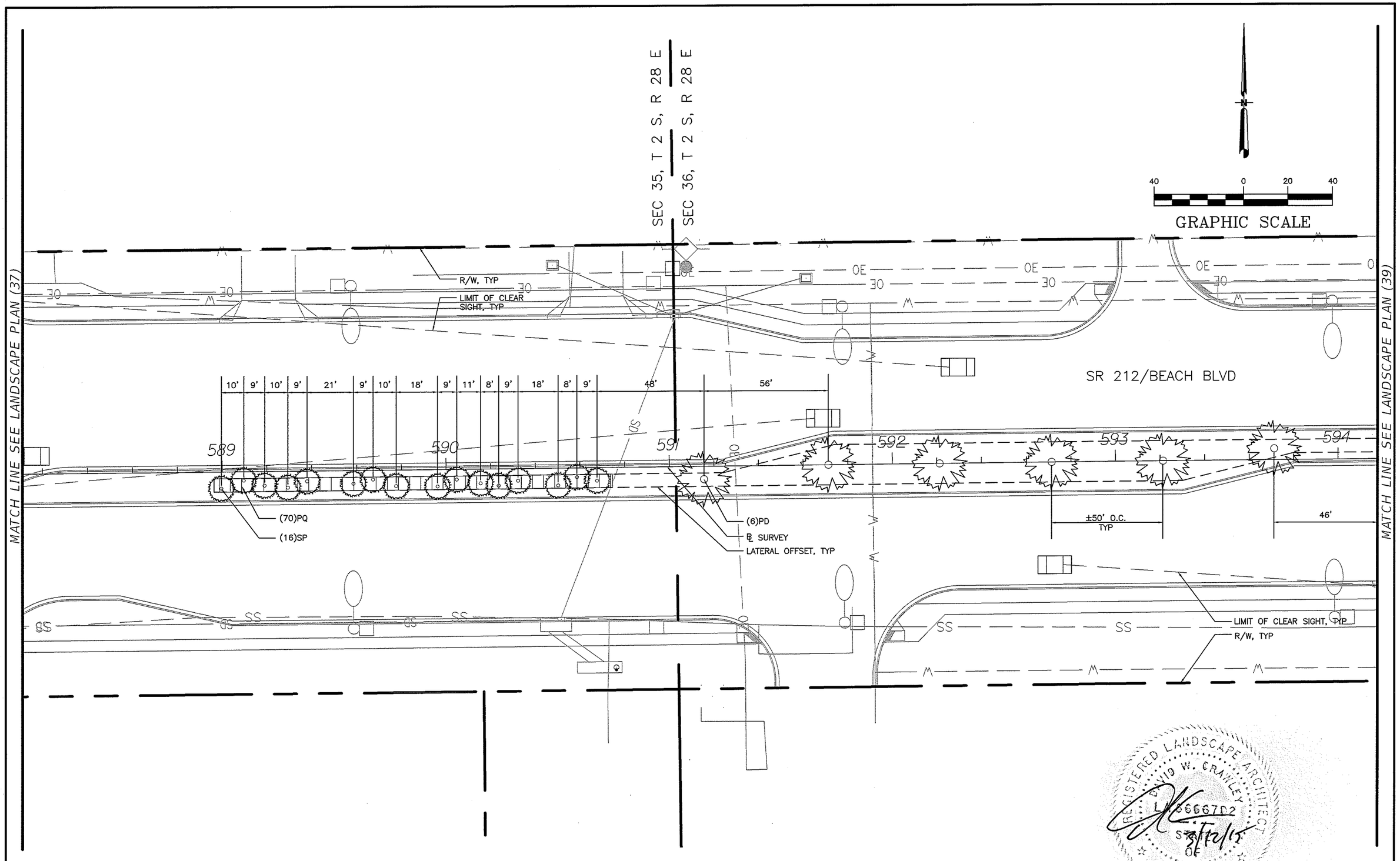
URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (37)

SHEET NO.
LD-44



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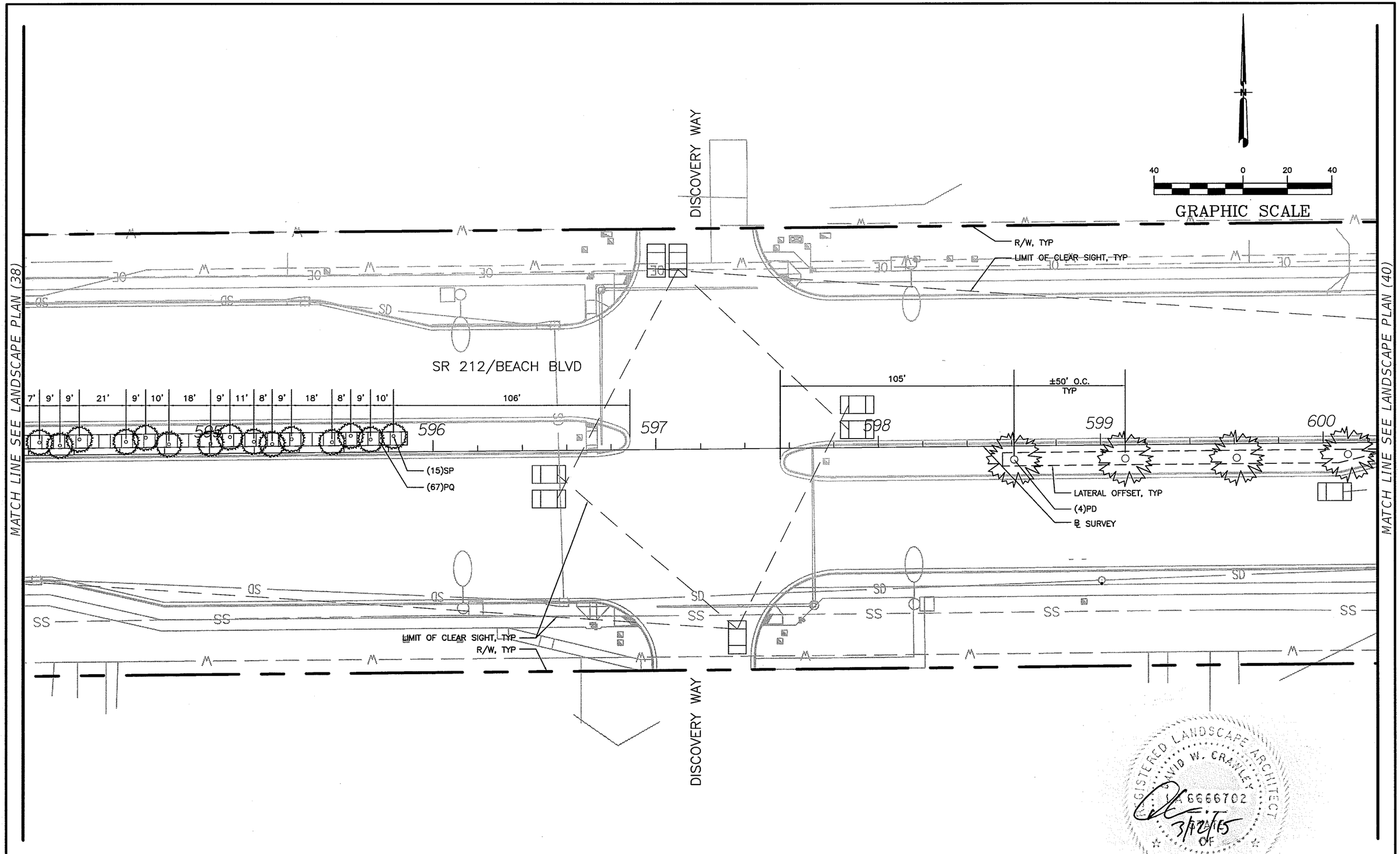
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (38)

SHEET NO.
LD-45

Monday, March 09, 2015 9:34am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD38



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DAVID W. CRAWLEY, RLA LA# 6666207

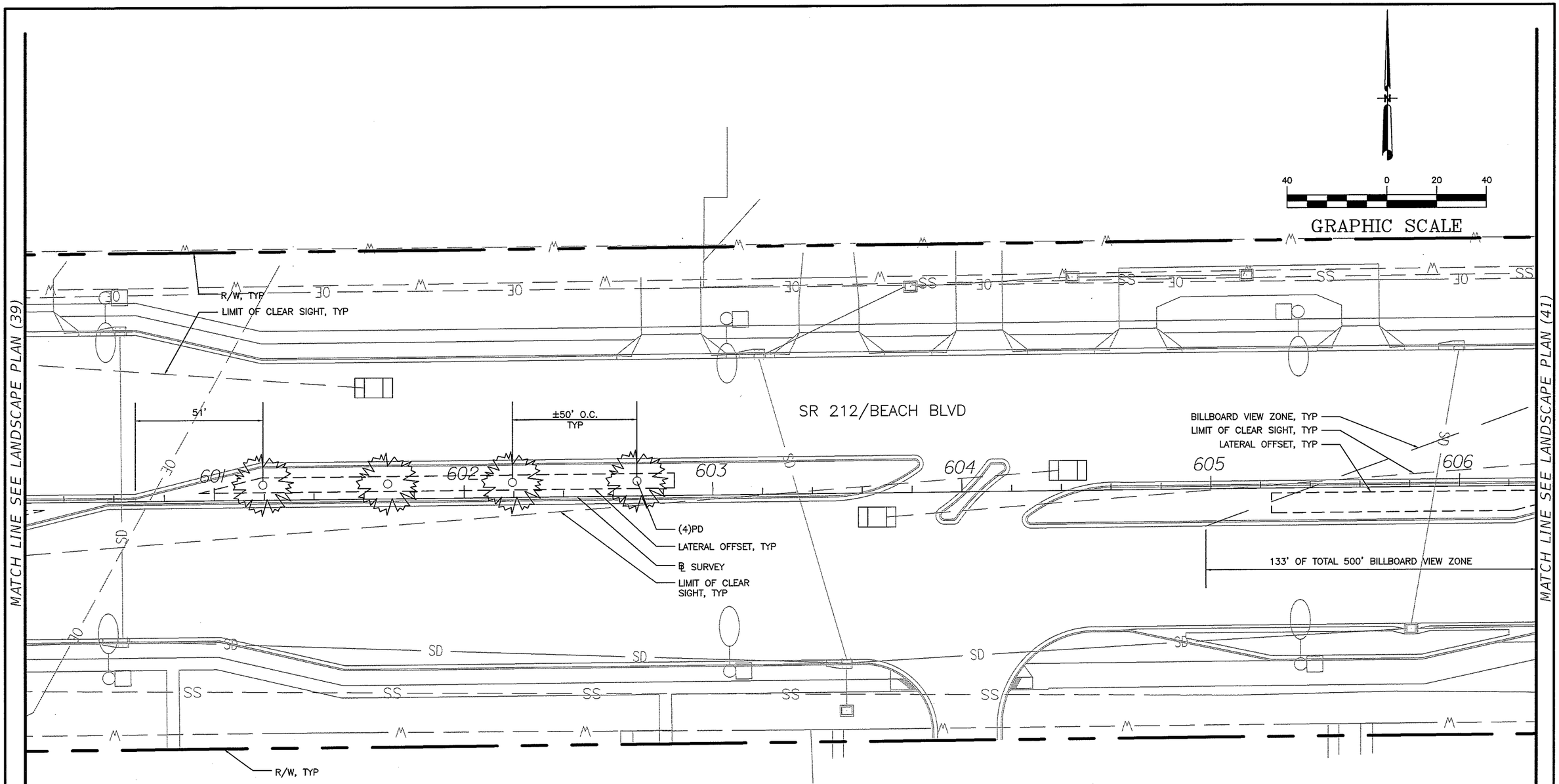
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (39)

SHEET NO.
LD-46

Wednesday, March 11, 2015 3:33pm S:\Projects\ RDWY\ProiFdot\ProiFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD39



REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 6666207
3/12/15
FLORIDA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
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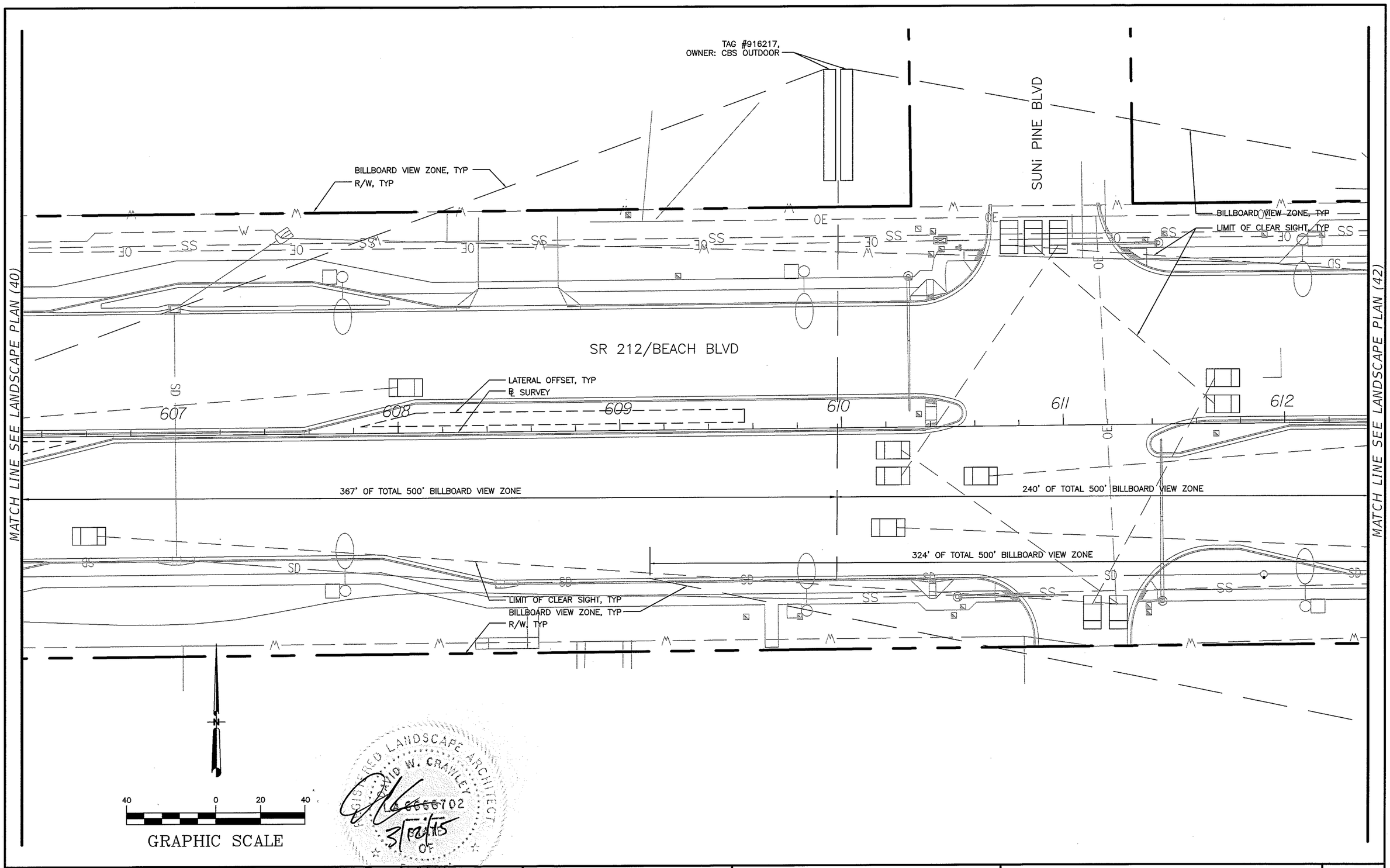
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (40)

SHEET NO.
LD-47

Monday, March 09, 2015 9:35am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD4C



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DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
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C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (41)

SHEET NO.
LD-48

Monday, March 09, 2015 9:35am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD41

MATCH LINE SEE LANDSCAPE PLAN (41)

MATCH LINE SEE LANDSCAPE PLAN (43)

R/W, TYP

BILLBOARD VIEW ZONE, TYP

LIMIT OF CLEAR SIGHT, TYP

260' OF TOTAL 500' BILLBOARD VIEW ZONE

SR 212/BEACH BLVD

176' OF TOTAL 500' BILLBOARD VIEW ZONE

431' OF TOTAL 500' BILLBOARD VIEW ZONE

613

614

615

616

617

618

℄ SURVEY

LIMIT OF CLEAR SIGHT, TYP

BILLBOARD VIEW ZONE, TYP

R/W, TYP

ALDRIDGE MALL

TAG #6573,
OWNER: CLEAR CHANNEL
OUTDOOR, JAX

TAG #6572,
OWNER: CLEAR CHANNEL
OUTDOOR, JAX

REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 6666702
3/12/15
STATE OF FLORIDA

40 0 20 40

GRAPHIC SCALE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
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DAVID W. CRAWLEY, RLA LA# 6666207

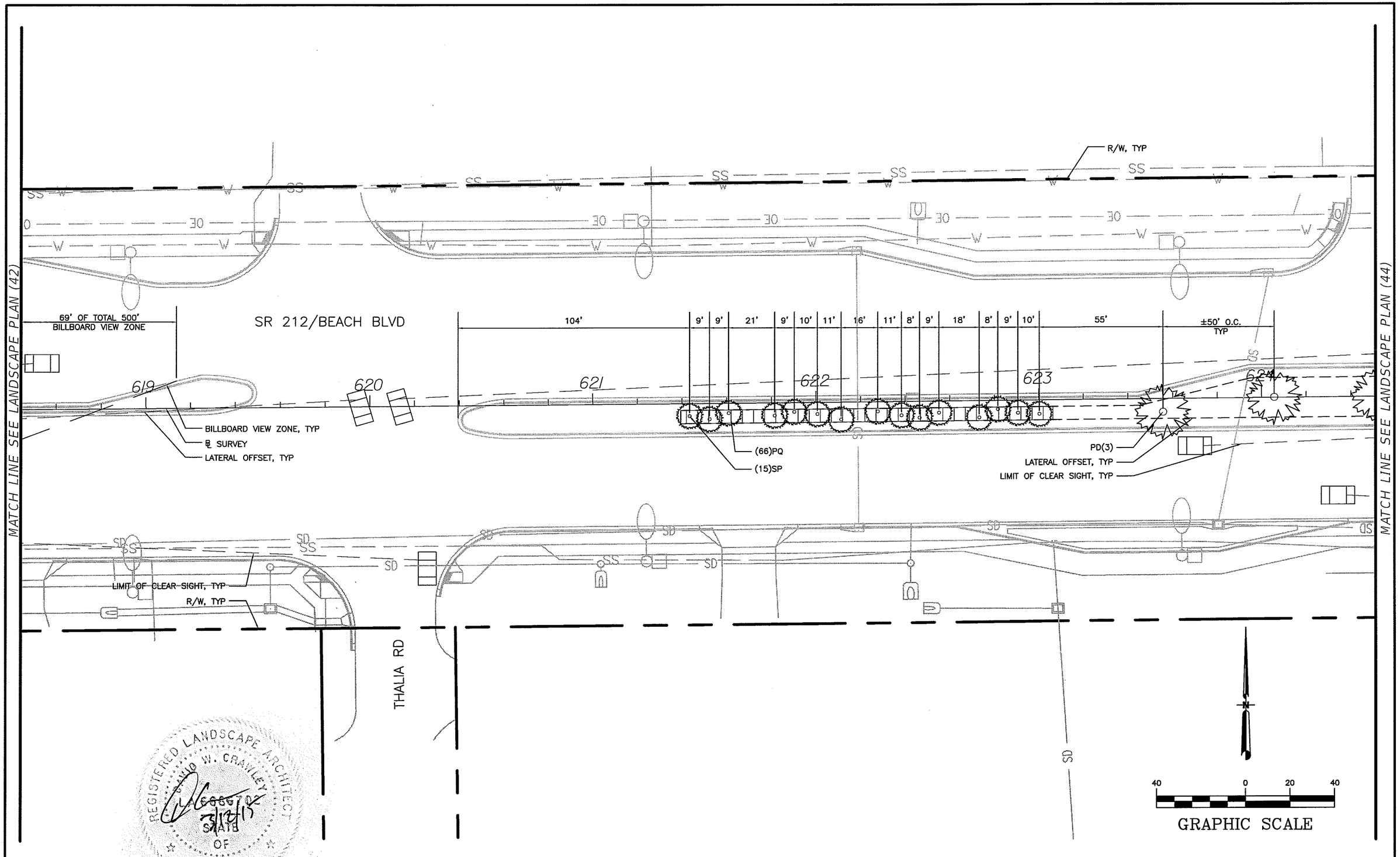
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (42)

SHEET NO.

LD-49



REGISTERED LANDSCAPE ARCHITECT DAVID W. CRAWLEY STATE OF FLORIDA 3/12/15

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
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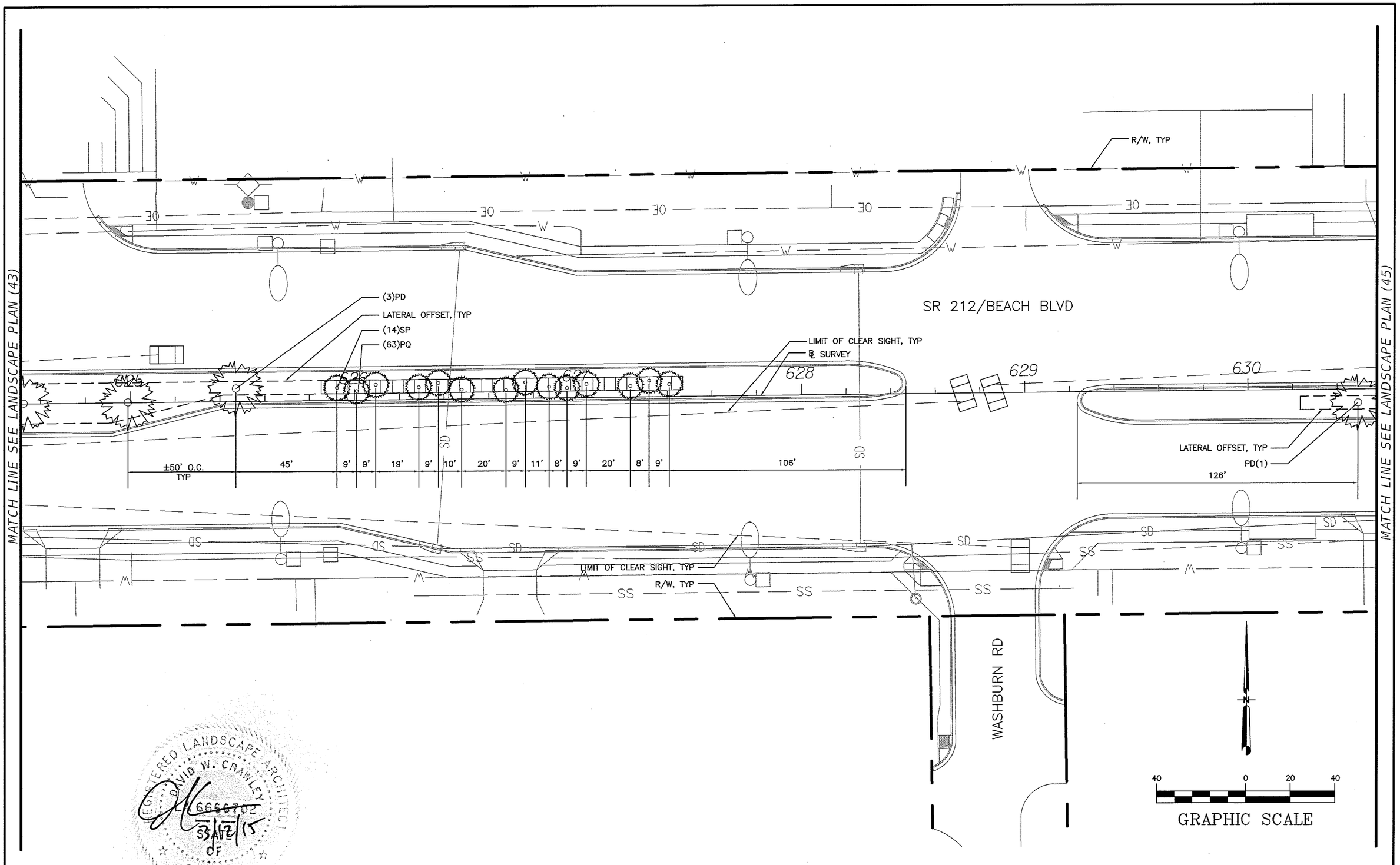
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (43)

SHEET NO.
LD-50

Wednesday, March 11, 2015 3:33pm S:\Projects\ RDWY\ProiFdot\ProiFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD43



REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
6666702
3/12/15
STATE OF FLORIDA

REVISIONS			
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STATE OF FLORIDA
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (44)

SHEET NO.
LD-51

MATCH LINE SEE LANDSCAPE PLAN (44)

MATCH LINE SEE LANDSCAPE PLAN (46)

R/W, TYP

SR 212/BEACH BLVD

LATERAL OFFSET, TYP

LIMIT OF CLEAR SIGHT, TYP

(2)PD

631

632

633

634

635

636

45'

40'

48'

±50' O.C.
TYP

LATERAL OFFSET, TYP

(3)PD

℄ SURVEY

LIMIT OF CLEAR
SIGHT, TYP

LIMIT OF CLEAR SIGHT, TYP

LATERAL OFFSET, TYP

SS

SD

OE

R/W, TYP

REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 6666702
STATE OF FLORIDA
3/12/15

40 0 20 40

GRAPHIC SCALE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
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DEPARTMENT OF TRANSPORTATION

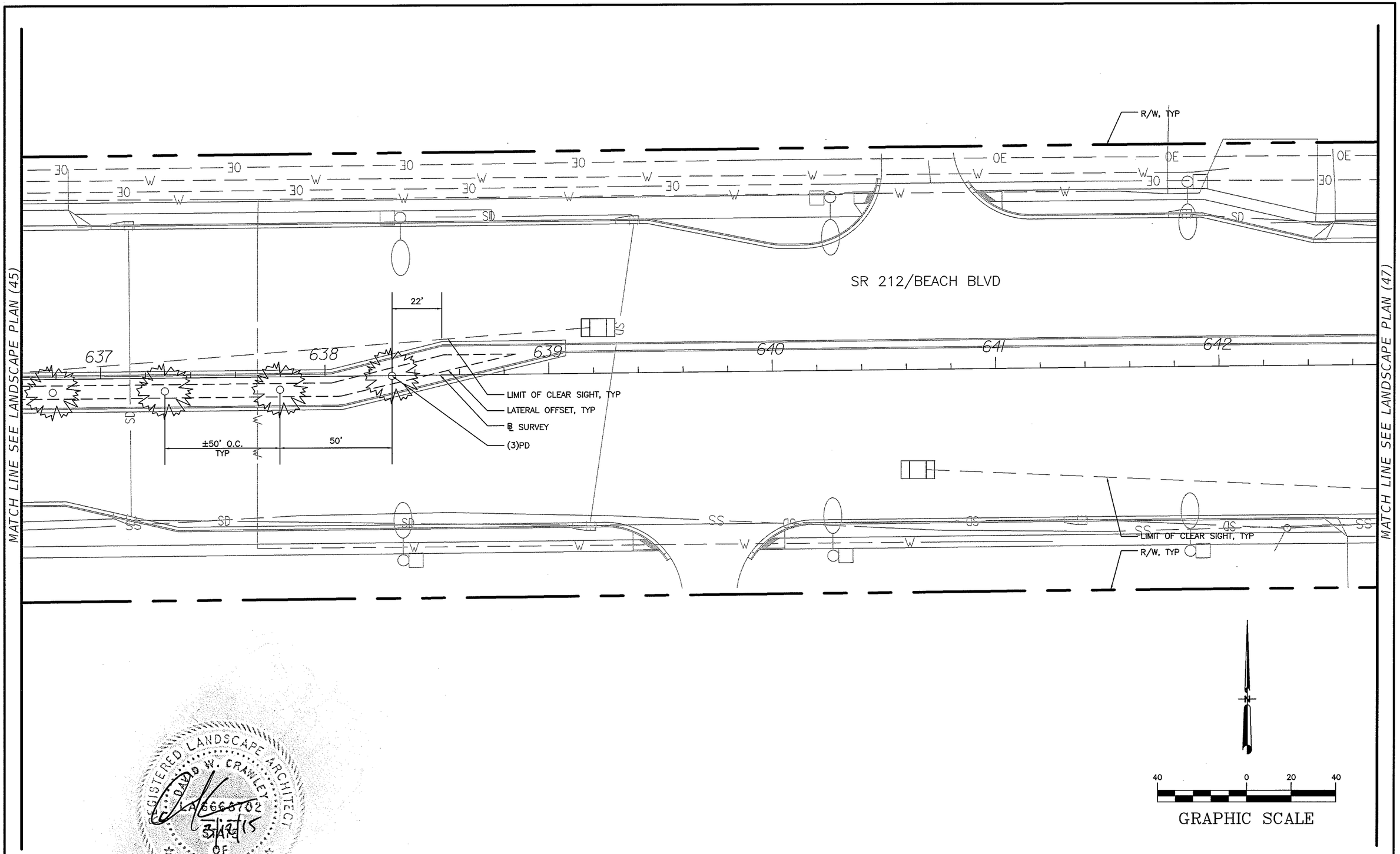
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (45)

SHEET NO.

LD-52

Wednesday, March 11, 2015 3:33pm S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD45



REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA6666702
3/12/15
STATE OF FLORIDA

REVISIONS			
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URS Corporation Southern
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (46)

SHEET NO.
LD-53

MATCH LINE SEE LANDSCAPE PLAN (46)

SAN PABLO RD

SR 212/BEACH BLVD

SIGNALIZED INTERSECTION

643 644 645 646 647 648

℄ SURVEY

R/W, TYP

LIMIT OF CLEAR SIGHT, TYP

END PROJECT, STA 645+00

LIMIT OF CLEAR SIGHT, TYP

R/W, TYP

SEC 36, T 2 S, R 28 E

SEC 31, T 2 S, R 29 E

REGISTERED LANDSCAPE ARCHITECT DAVID W. CRAWLEY 6666207 STATE OF FLORIDA

3/17/15

GRAPHIC SCALE 40 0 20 40

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE PLAN (47)

SHEET NO. LD-54

Monday, March 09, 2015 9:37am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNLD01.dwg PLANLD47

LANDSCAPE TECHNICAL MAINTENANCE PLAN

ESTABLISHMENT PERIOD AND FOR SUBSEQUENT YEARS IF CONTRACTED. THE ACTIVITIES AND FREQUENCIES SHOWN REPRESENT THE MINIMUM REQUIREMENTS.	
MOWING: 44 CYCLES	MOW GRASS WITHIN PROJECT LIMITS FROM RIGHT-OF-WAY TO RIGHT-OF-WAY AND FROM BEGINNING TO END OF PROJECT.
WATERING: AS REQUIRED TO MAINTAIN PLANT HEALTH AND QUALITY.	IF IRRIGATION SYSTEM IS NOT OPERATIONAL, CONTRACTOR SHALL SUPPLY HAND-WATERING NECESSARY FOR ESTABLISHMENT OF PLANTING, PROTECTION FROM DROUGHT AND OPTIMUM GROWTH AND TO MAINTAIN PLANT QUALITY. SUBMIT WATER TICKETS TO THE ENGINEER MONTHLY. THE WATER SOURCE SHALL BE APPROVED BY THE ENGINEER. IF HAND WATERING IS NECESSARY SUBMIT WATER TEST RESULTS FOR ENGINEER APPROVAL.
LITTER REMOVAL: 44 CYCLES	PERFORM LITTER REMOVAL CYCLE PRIOR TO EACH MOWING CYCLE. LITTER PICK UP SHALL INCLUDE REMOVAL OF FALLEN BRANCHES AND PALM FRONDS.
EDGING:	EDGE AT EACH MOWING CYCLE. MECHANICAL EDGING SHALL BE USED FOR TURF ADJACENT TO WALKWAY, PAVEMENT, CURB AND CURBED MEDIANS. CHEMICAL HERBICIDE EDGING CAN BE USED ON TREE RINGS AND PLANTING BEDS ON ROADWAY CONDITIONS.
WEEDING:	MAINTAIN BEDS WEED FREE AT ALL TIMES. AT A MINIMUM, PERFORM MONTHLY WEEDING BY GLYPHOSATE POST-EMERGENT CHEMICAL HERBICIDE WITH PIGMENTED TRACER, AND 'SEDGE' SPECIFIC POST EMERGENT CHEMICAL HERBICIDE, APPLIED AS PER MANUFACTURER'S SPECIFICATIONS. HAND-REMOVE ANY WEEDS ABOVE TWELVE INCH (12") HEIGHT PRIOR TO APPLYING HERBICIDE SPRAY. REMOVE WEEDS IN ALL MULCHED AREAS AND TREE RINGS. PERFORM FINAL WEEDING CYCLE TEN (10) DAYS PRIOR TO FINAL INSPECTION.
CHEMICAL APPLICATIONS:	AT MINIMUM INSPECT ALL PLANTS AND PALMS FOR PEST INFESTATION AND DISEASE ON A MONTHLY BASIS, CHECKING FOR THE PRESENCE FOR INSECTS, GRUBS, MITES, FUNGUS, MOLD, ETC. APPLY FUNGICIDE AND PESTICIDES PER MANUFACTURER'S RECOMMENDATIONS. SUBMIT DOCUMENTATION IN WRITING TO THE ENGINEER FOR EACH CHEMICAL TYPE APPLIED, RATES OF APPLICATIONS, LOCATIONS, AND DATES OF APPLICATION.
WATER SAUCERS, STAKES AND GUYS:	MONITOR AND REPAIR WATER SAUCERS THROUGHOUT THE ESTABLISHMENT PERIOD. MAINTAIN TREES AND PALMS UPRIGHT, WITH STAKES/GUYS MAINTAINED.
FERTILIZATION PALMS, ORNAMENTAL GRASSESS AND TURF:	PALMS AND ORNAMENTAL GRASSESS TO BE FERTILIZED AS SCHEDULED AND AS DIRECTED BY THE ENGINEER, TO CORRECT NUTRITIONAL DEFICIENCIES. FERTILIZER FOR ORNAMENTAL GRASSESS SHALL BE 5-5-2 ANALYSIS WITH MICRO NUTRIENTS IN A CONTROLLED RELEASED FORM. FERTILIZER FOR PALMS SHALL BE 2-12-4 WITH FOUR (4) PERCENT MAGNESIUM AND MICRO NUTRIENTS. 100 PERCENT OF THE NITROGEN, POTASSIUM AND PHOSPHORUS SHALL BE IN CONTROLLED RELEASE FORM. THE MANGANESE AND IRON ARE TO BE IN SULFATE OR CHELATED FORM. APPLY AS PER MANUFACTURER'S RECOMMENDED RATES WITH A MINIMUM OF 2 LBS OF NITROGEN PER CALIPER INCH FOR PALMS. TURF: GRANULAR 50% ORGANIC LAWN FERTILIZER: SIX (6) FOOT WIDE BAND ADJACENT TO ALL PLANT AND MULCH BEDS ONCE EVERY SIX (6) MONTHS. FERTILIZE ALL PLANTS ONCE DURING CONSTRUCTION AND THREE (3) TIMES PER YEAR DURING ESTABLISHMENT PERIOD, A MINIMUM OF 90 DAYS BETWEEN APPLICATIONS, PRIOR TO FINAL INSPECTION. SUBMIT MANUFACTURER'S LABELS TO THE ENGINEER FOR APPROVAL PRIOR TO APPLICATION.
MULCH: 2 TIMES/YEAR MINIMUM	MAINTAIN MINIMUM OF THREE (3) INCH COMPACTED DEPTH OF MULCH MATERIAL THROUGHOUT ESTABLISHMENT PERIOD FOR ALL PLANT BEDS AS SHOW IN THE PLANS. SPOT CHECK DEPTH DURING MONTHLY AND QUARTERLY INSPECTIONS AND REPLENISH TO MAINTAIN THREE (3) INCH DEPTH THROUGHOUT THE ESTABLISHMENT PERIOD. THE CONTRACTOR SHALL INSPECT MULCH AREAS AFTER MAJOR RAIN EVENTS AND CORRECT DEFICIENCIES. PERFORM TWO (2) FULL MULCH CYCLES AS FOLLOWS: ONE (1) CYCLE AT SIX (6) MONTHS AND ONE (1) CYCLE AT TWELVE (12) MONTHS PRIOR TO FINAL INSPECTION. DEPTH WILL BE VERIFIED BY THE ENGINEER THROUGHOUT PROJECT LIMITS. SEE LANDSCAPE PLANS AND GENERAL NOTES FOR LOCATIONS OF APPLICATIONS.
PRUNING: PALMS AND ORNAMENTAL GRASSES	PALMS: PRUNE AS SCHEDULED AND AS DIRECTED BY THE ENGINEER, TO REMOVE BROKEN OR DEAD FRONDS AND FLOWER/SEED STALKS. ORNAMENTAL GRASSESS: PRUNE AS SCHEDULED AND AS DIRECTED BY THE ENGINEER. ORNAMENTAL GRASSESS SHALL BE PRUNED AS PER FLORIDA'S COOPERATIVE EXTENSION SERVICE (IFAS) GUIDELINES USING APPROPRIATE TOOLS. MAINTAIN VERTICAL CLEARANCE SO THAT THERE IS NO ENCROACHMENT OF PALMS, PALM FRONDS OR OTHER VEGETATION LOWER THAN 14.5 FEET OVER THE ROADWAY PAVEMENT OR BEYOND THE FACE OF ANY GUARDRAIL.
IRRIGATION SYSTEM	MAINTAIN THE IRRIGATION SYSTEM IN AN OPERABLE CONDITION AT ALL TIMES, CHECK SYSTEM FOR LINE BREAKS AND CLOGGING OF DRIPLINE AND BUBBLERS EACH WEEK. CHECK BATTERY OPPERATED CONTROLLERS QUARTERLY AND REPLACE BATTERIES AS NEEDED. VERIFY AND ADJUST CONTROLLER PROGRAMMING AND RUN-TIMES WEEKLY, AS NEEDED TO MAINTAIN OPTIMUM PLANT HEALTH AND CONDITION OF PLANTINGS AT ALL TIMES. PROVIDE IRRIGATION AS-BUILT DRAWING TO ENGINEER FOR APPROVAL AT SUBSTANTIAL COMPLETING. PROVIDE THE UPDATED AS-BUILT DRAWINGS WITH COMMENTS INCORPORATED TO THE ENGINEER AT THE END OF THE ESTABLISHMENT PERIOD.

REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
No. 6666702
STATE OF FLORIDA

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URS Corporation Southern
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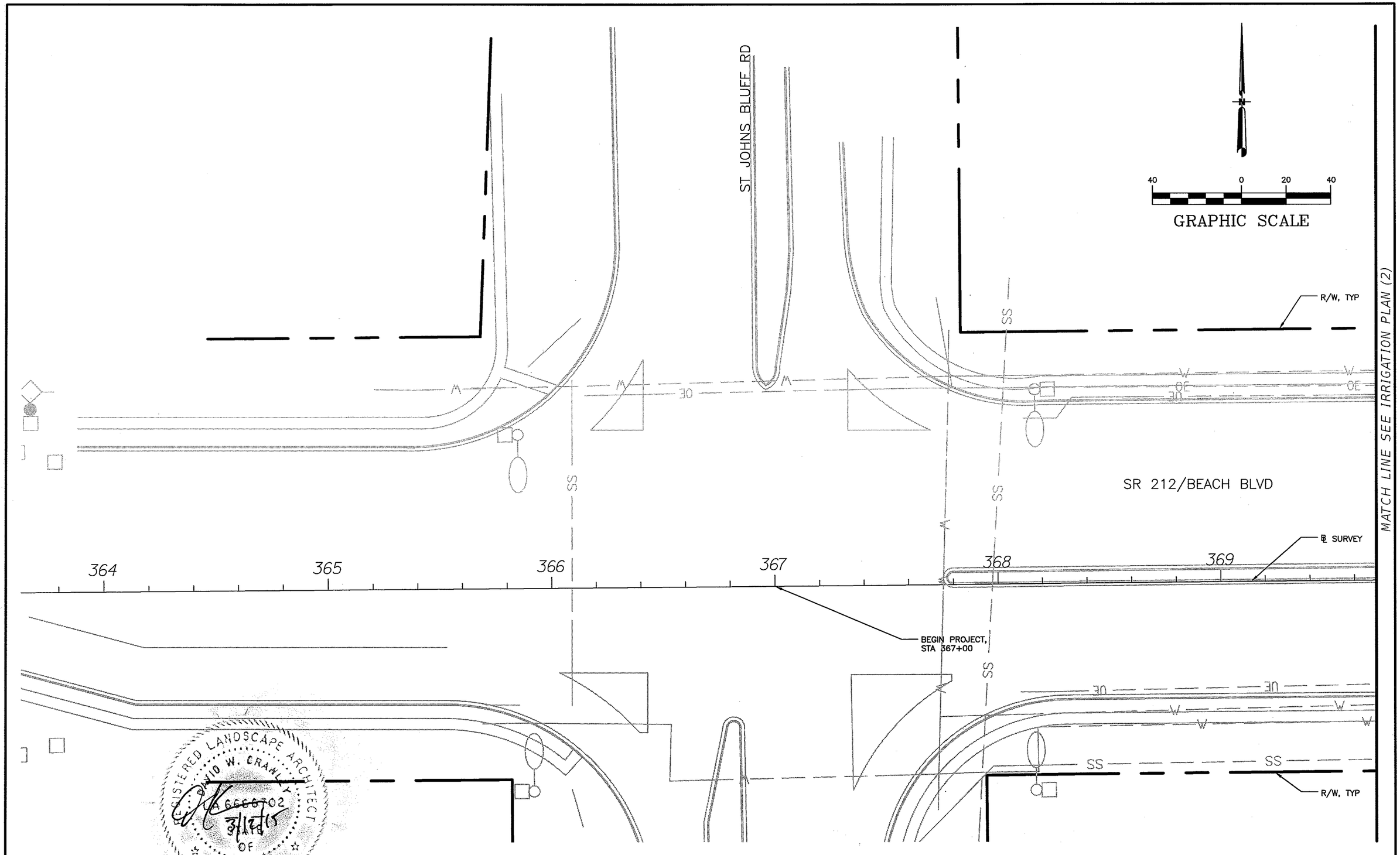
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

LANDSCAPE TECHNICAL MAINTENANCE PLAN

SHEET NO. LD-55



REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
6666702
STATE OF FLORIDA

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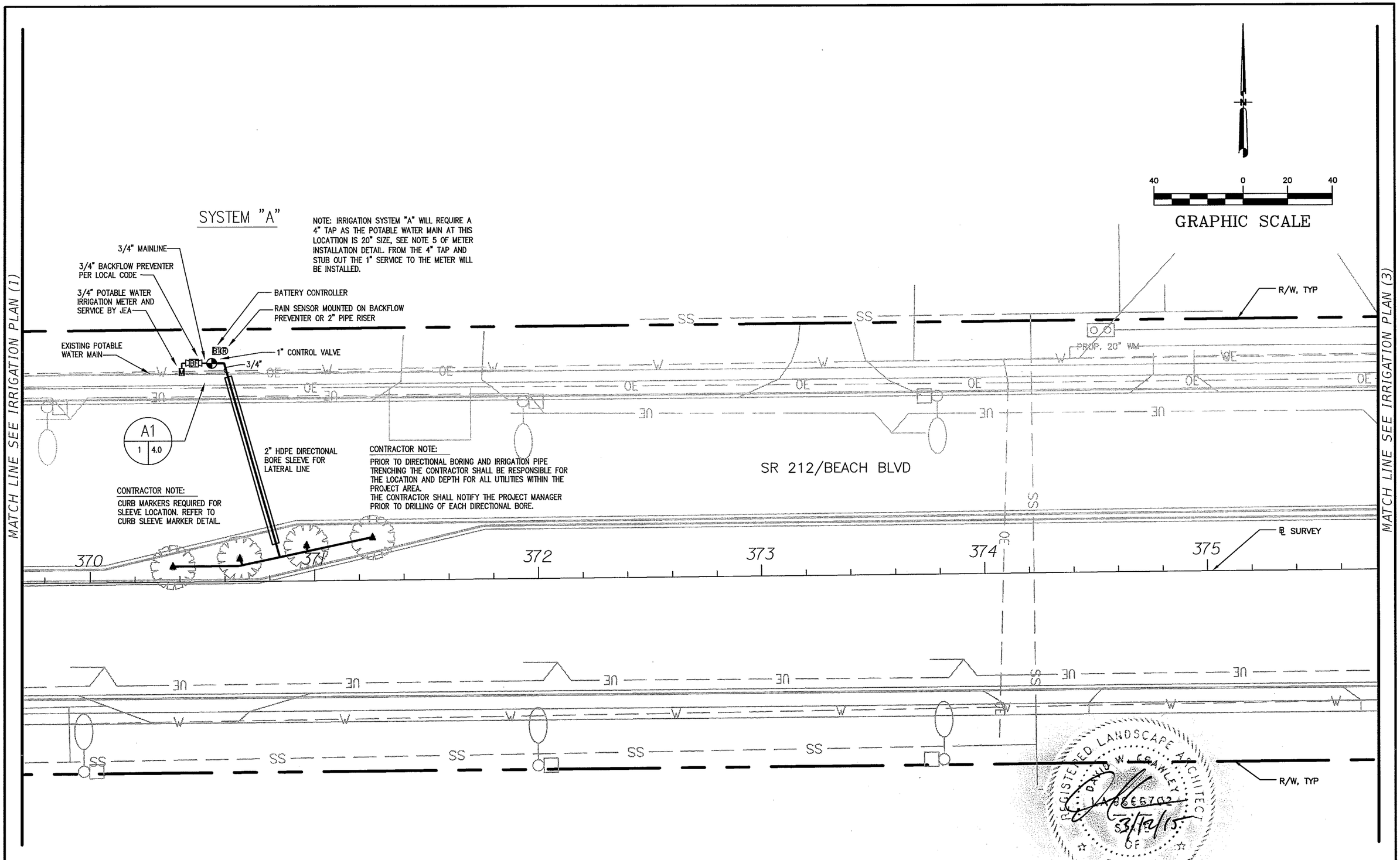
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (1)

SHEET NO.
IR-01

Monday, March 09, 2015 8:56am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR01



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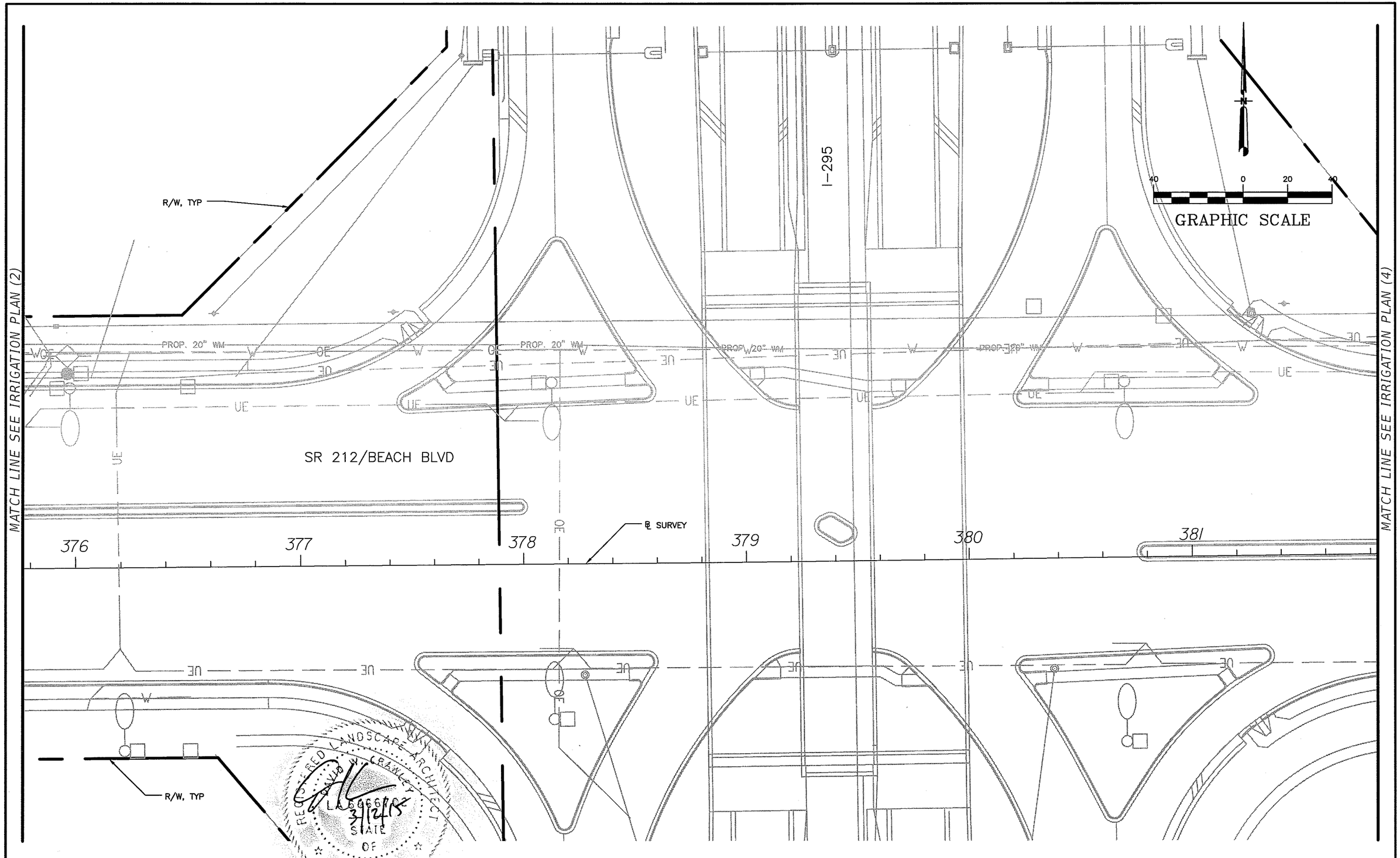
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (2)

SHEET NO.
IR-02

Monday, March 09, 2015 8:56am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR02



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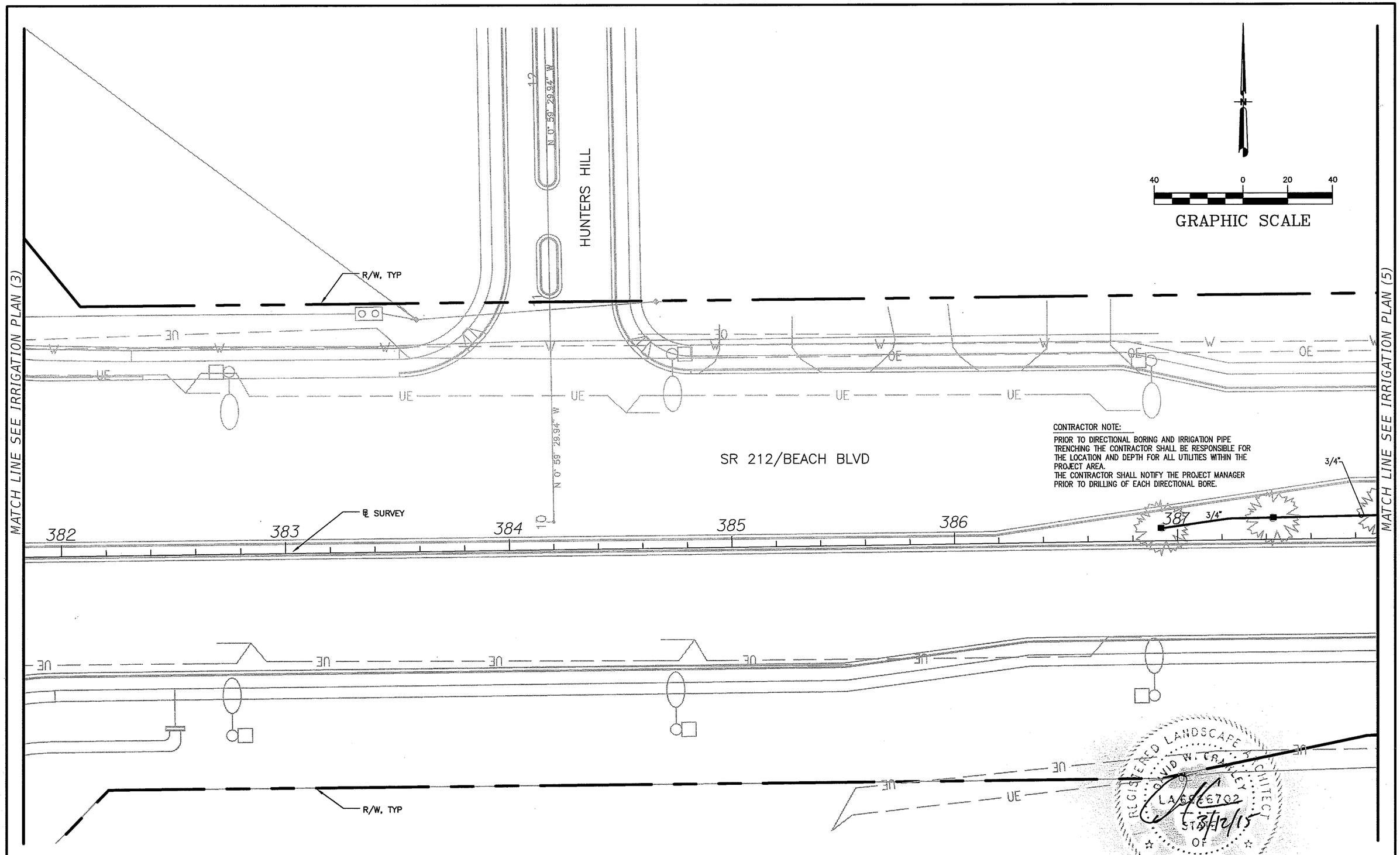
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (3)

SHEET NO.
IR-03

Monday, March 09, 2015 8:56am S:\Projects\ RDWY\ProiFdot\ProiFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR03



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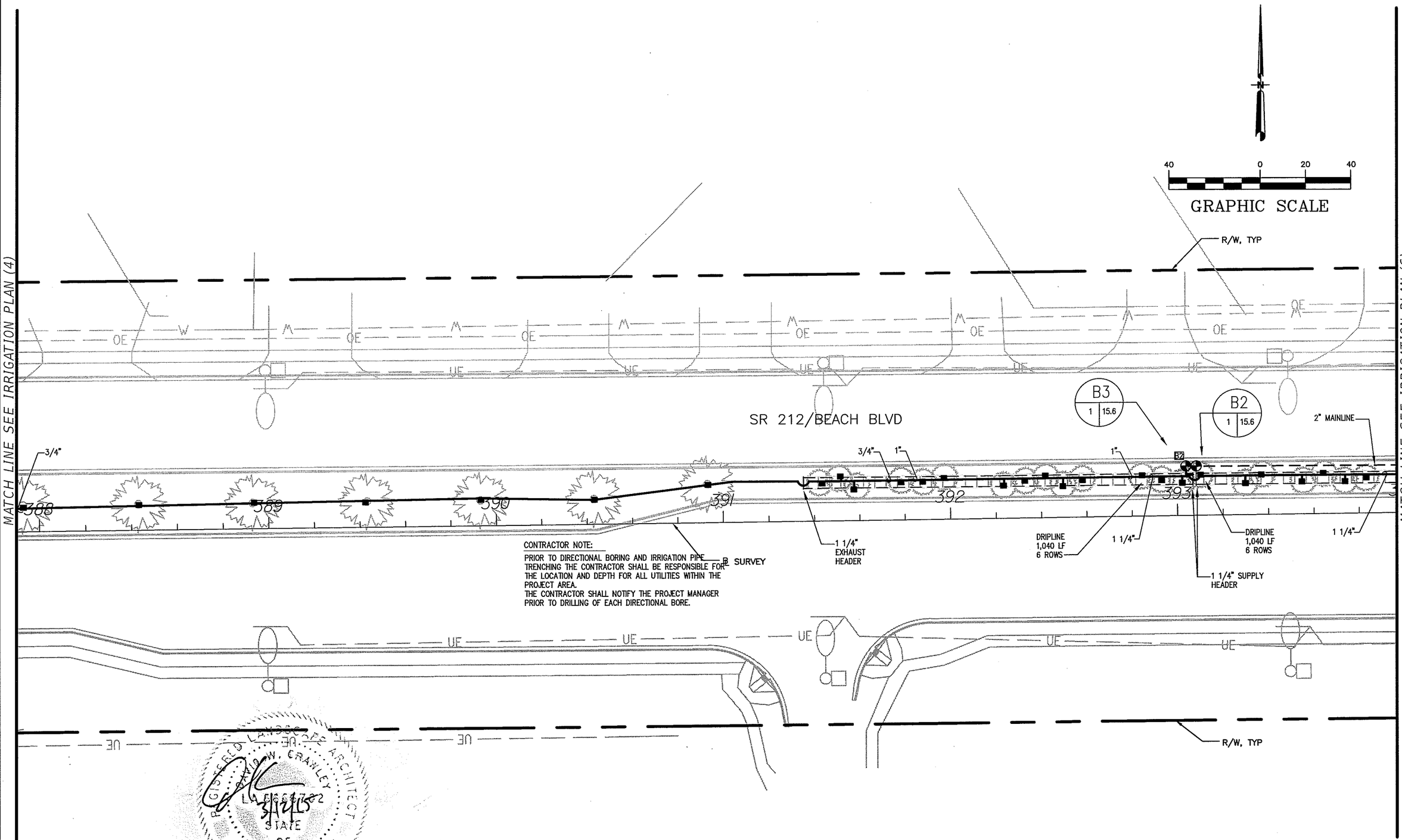
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (4)

SHEET NO.
IR-04

Monday, March 09, 2015 8:56am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR04



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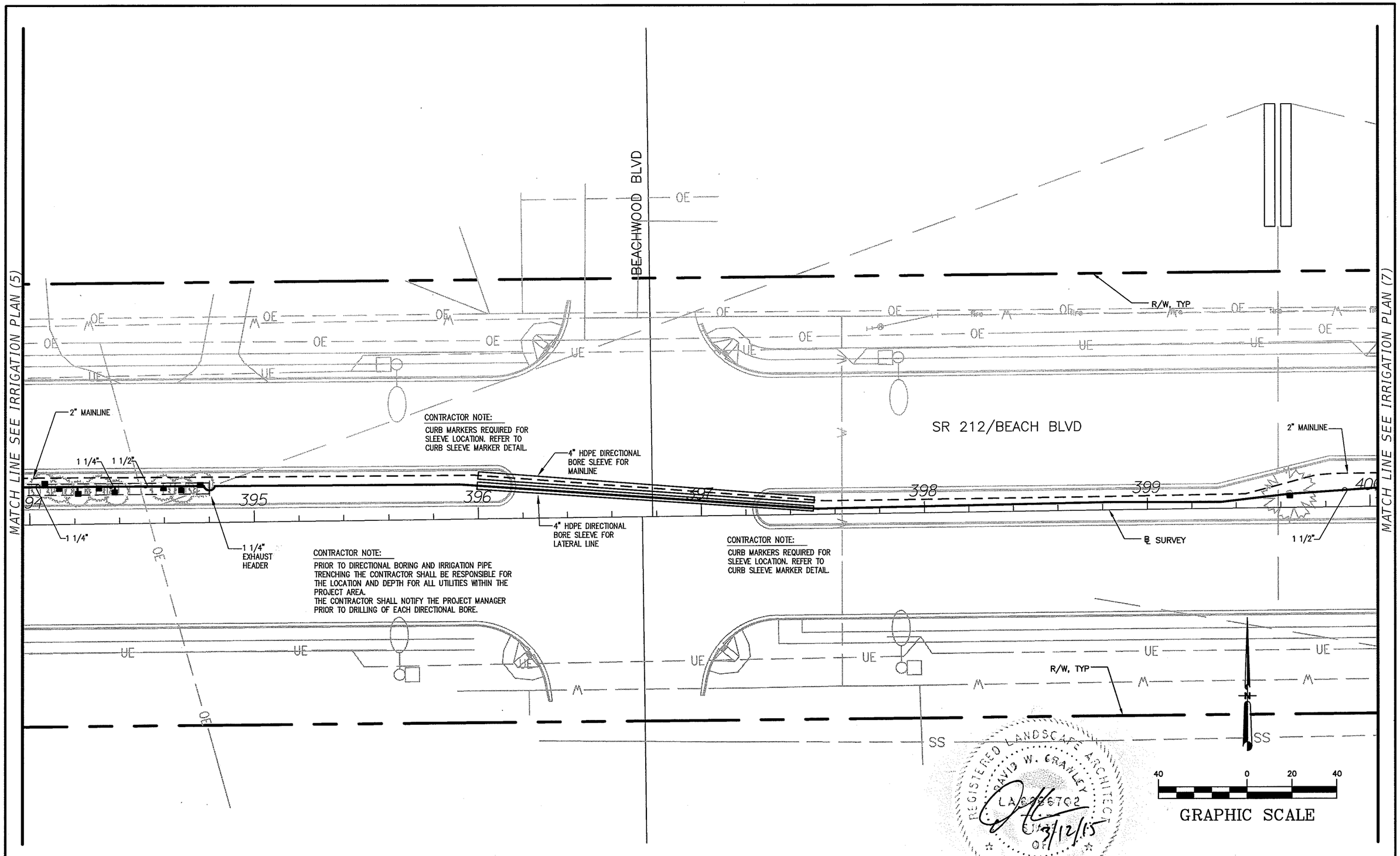
IRRIGATION PLAN (5)

SHEET NO.
IR-05

Monday, March 09, 2015 8:56am S:\Projects\ RDWY\ProiFdot\ProiFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR05



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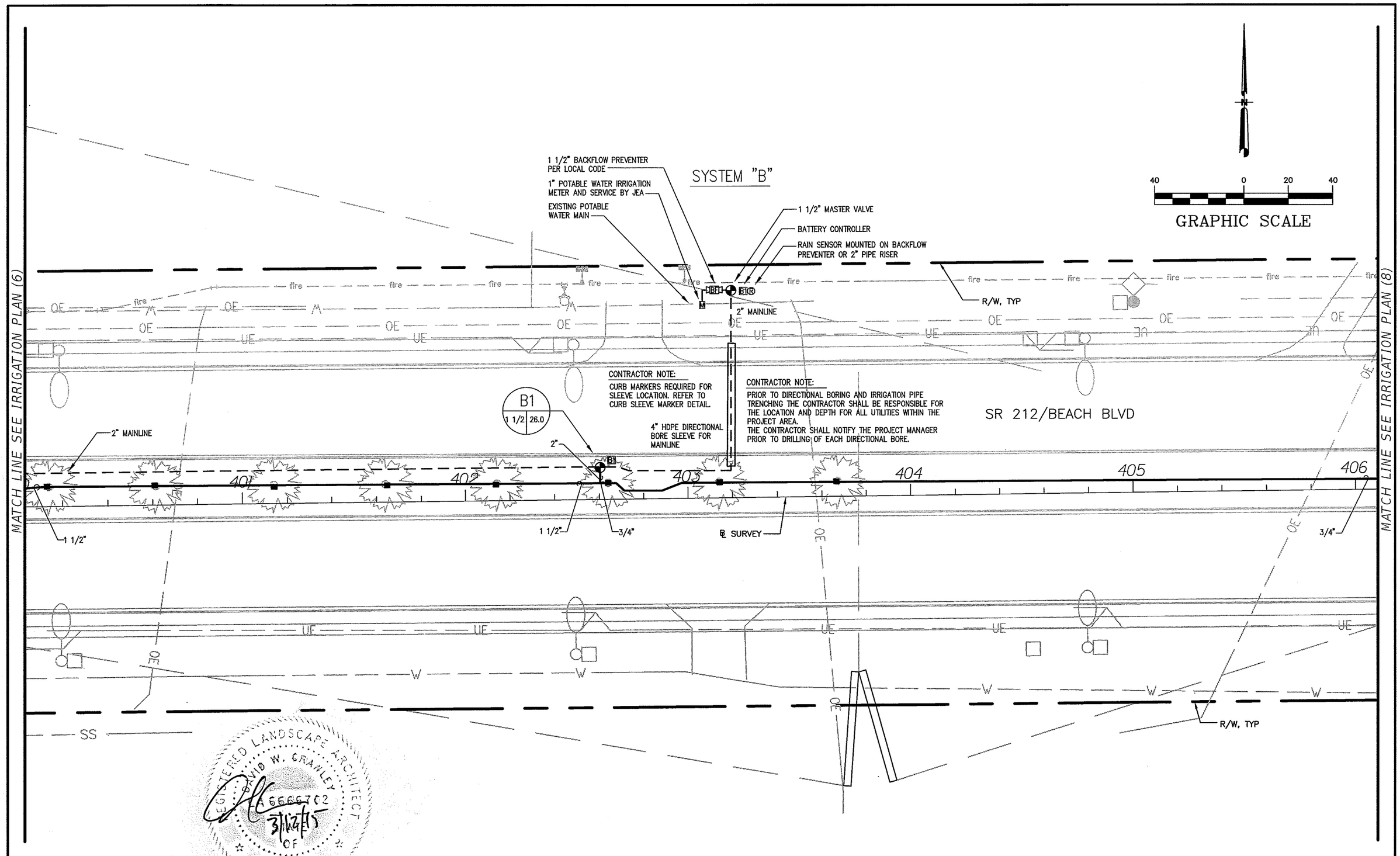
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (6)

SHEET NO.
IR-06

Monday, March 09, 2015 8:57am S:\Projects\ RDWY\ProiFdot\ProiFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR06



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Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

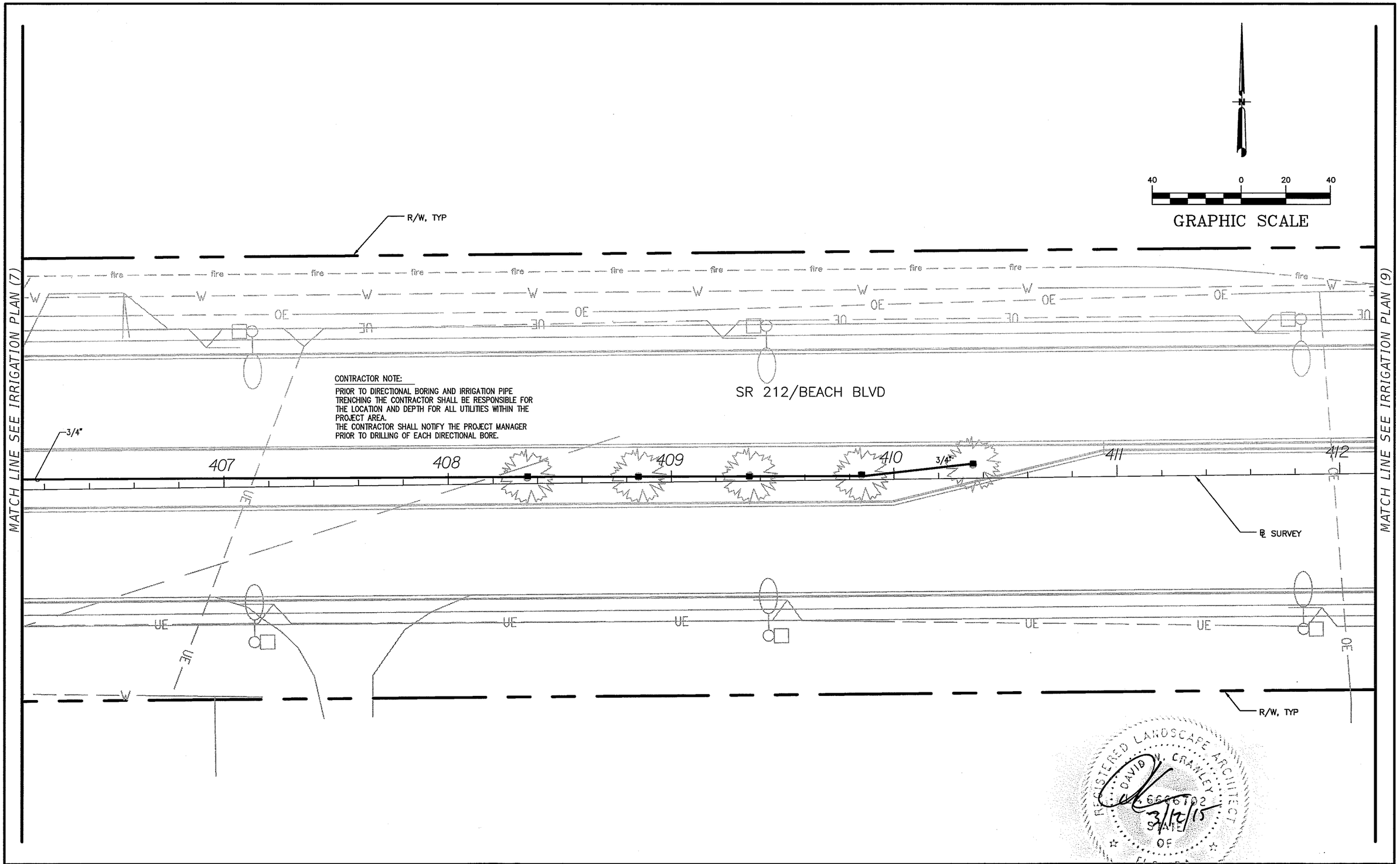
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (7)

SHEET NO.
IR-07

Monday, March 09, 2015 8:57am S:\Projects\ RDWY\ProiFdot\ProiFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR07



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

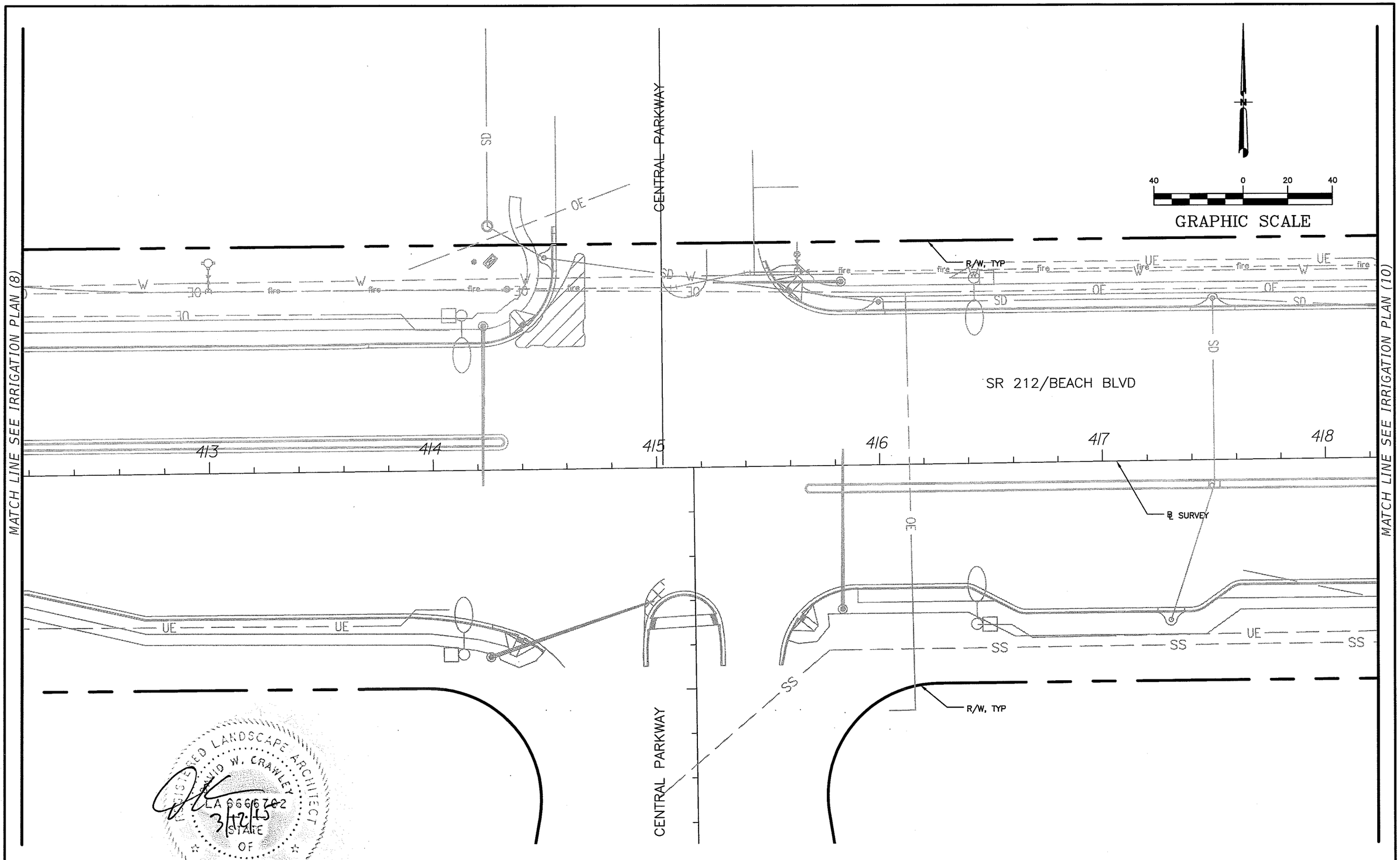
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (8)

SHEET NO.
IR-08

Monday, March 09, 2015 8:57am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR08



REGISTERED LANDSCAPE ARCHITECT DAVID W. CRAWLEY LA 6666207 STATE OF FLORIDA
3/12/15

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

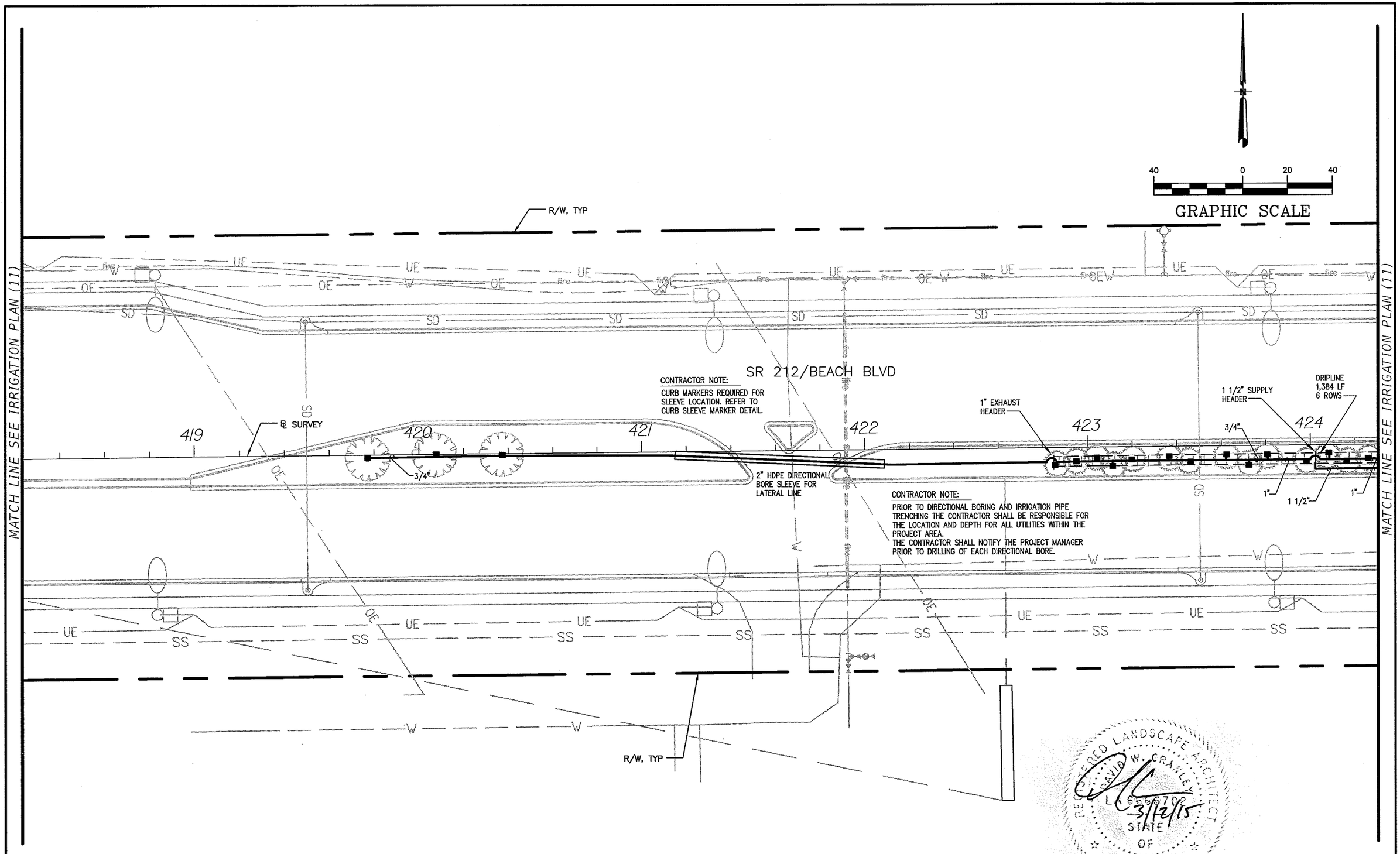
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (9)

SHEET NO.
IR-09

Monday, March 09, 2015 8:57am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR09



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

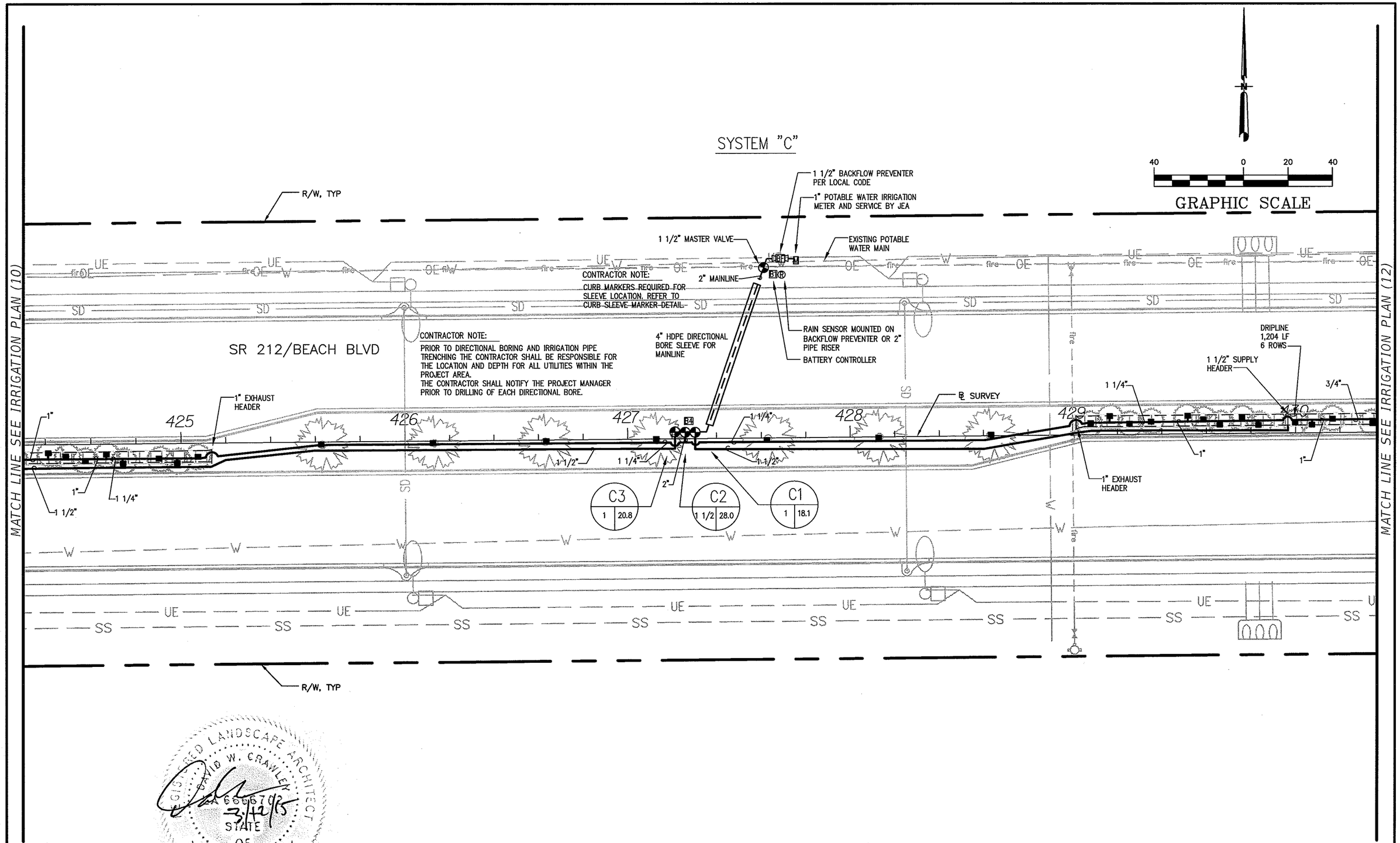
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (10)

SHEET NO.
IR-10

Monday, March 09, 2015 8:57am S:\Projects\ RDWY\ProiFdot\ProiFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR10



LICENSED LANDSCAPE ARCHITECT DAVID W. CRAWLEY LA 6666707 3/12/15 STATE OF FLORIDA

DATE	DESCRIPTION	DATE	DESCRIPTION

REVISIONS

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

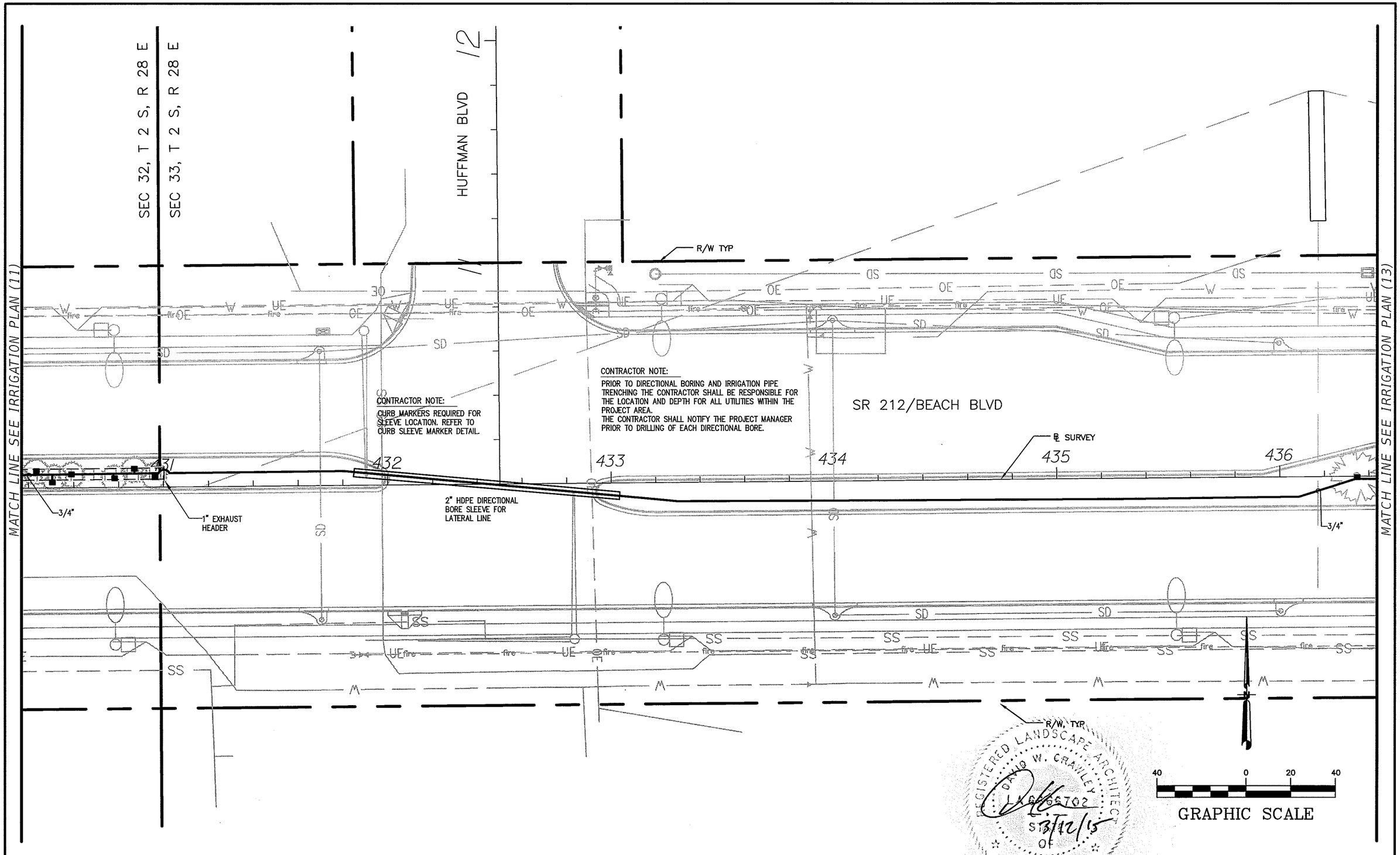
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (11)

SHEET NO.
IR-11

Monday, March 09, 2015 8:57am S:\Projects\ RDWY\ProiFdot\ProiFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR11



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

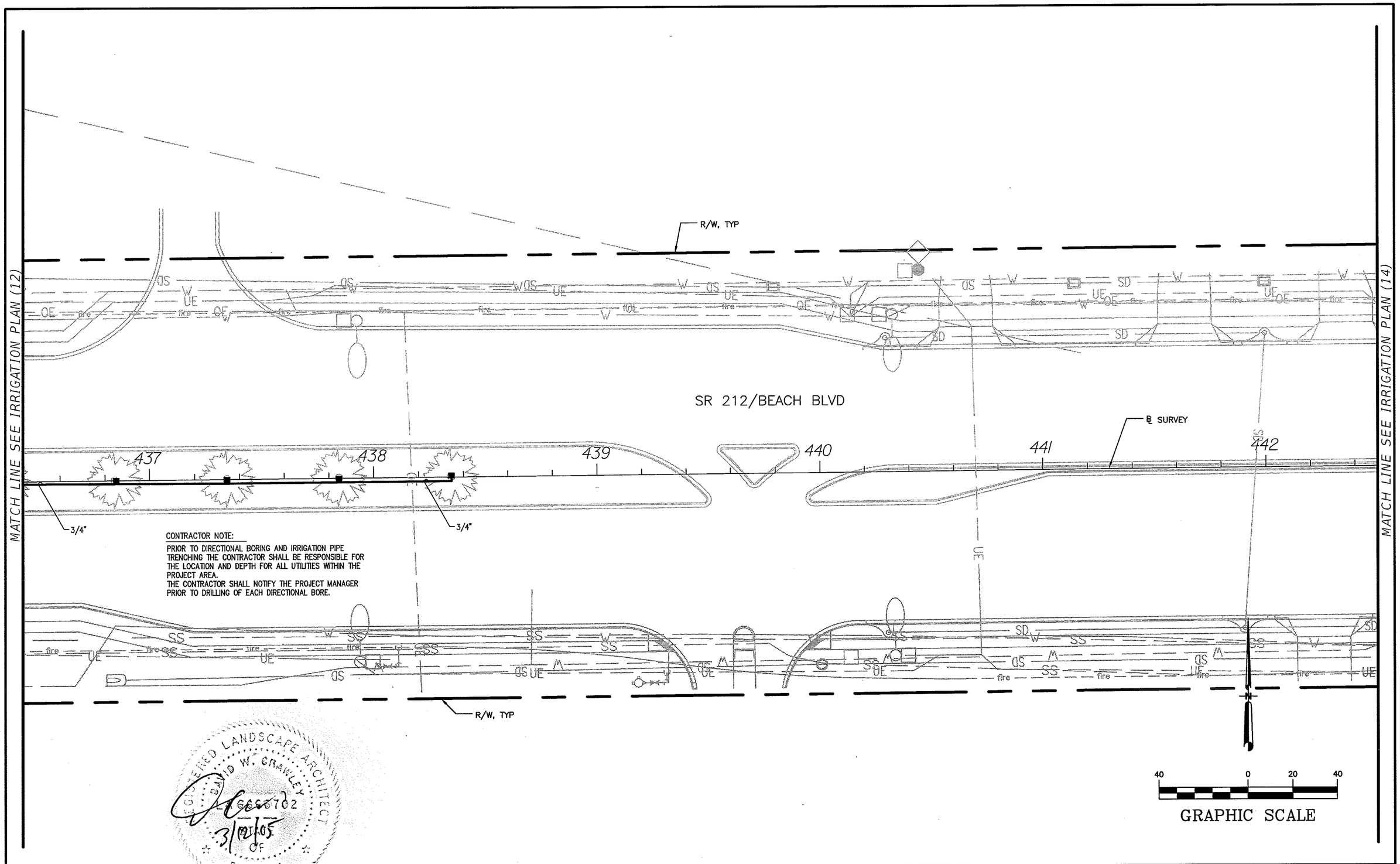
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (12)

SHEET NO.
IR-12

Monday, March 09, 2015 8:58am S:\Projects\ RDWY\ProiFdot\ProiFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR12



REGISTERED LANDSCAPE ARCHITECT DAVID W. CRAWLEY 6666702 3/10/15 STATE OF FLORIDA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (13)

SHEET NO.
IR-13

Monday, March 09, 2015 8:58am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR13

MATCH LINE SEE IRRIGATION PLAN (15)

MEADOWBROOK BLVD

SR 212/BEACH BLVD

R/W, TYP

℄ SURVEY

3/4"

443 444 445 446 447 448

CONTRACTOR NOTE:

PRIOR TO DIRECTIONAL BORING AND IRRIGATION PIPE TRENCHING THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND DEPTH FOR ALL UTILITIES WITHIN THE PROJECT AREA.
THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER PRIOR TO DRILLING OF EACH DIRECTIONAL BORE.

R/W, TYP

MATCH LINE SEE IRRIGATION PLAN (15)

REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 6666707
3/12/15
STATE OF FLORIDA

40 0 20 40

GRAPHIC SCALE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

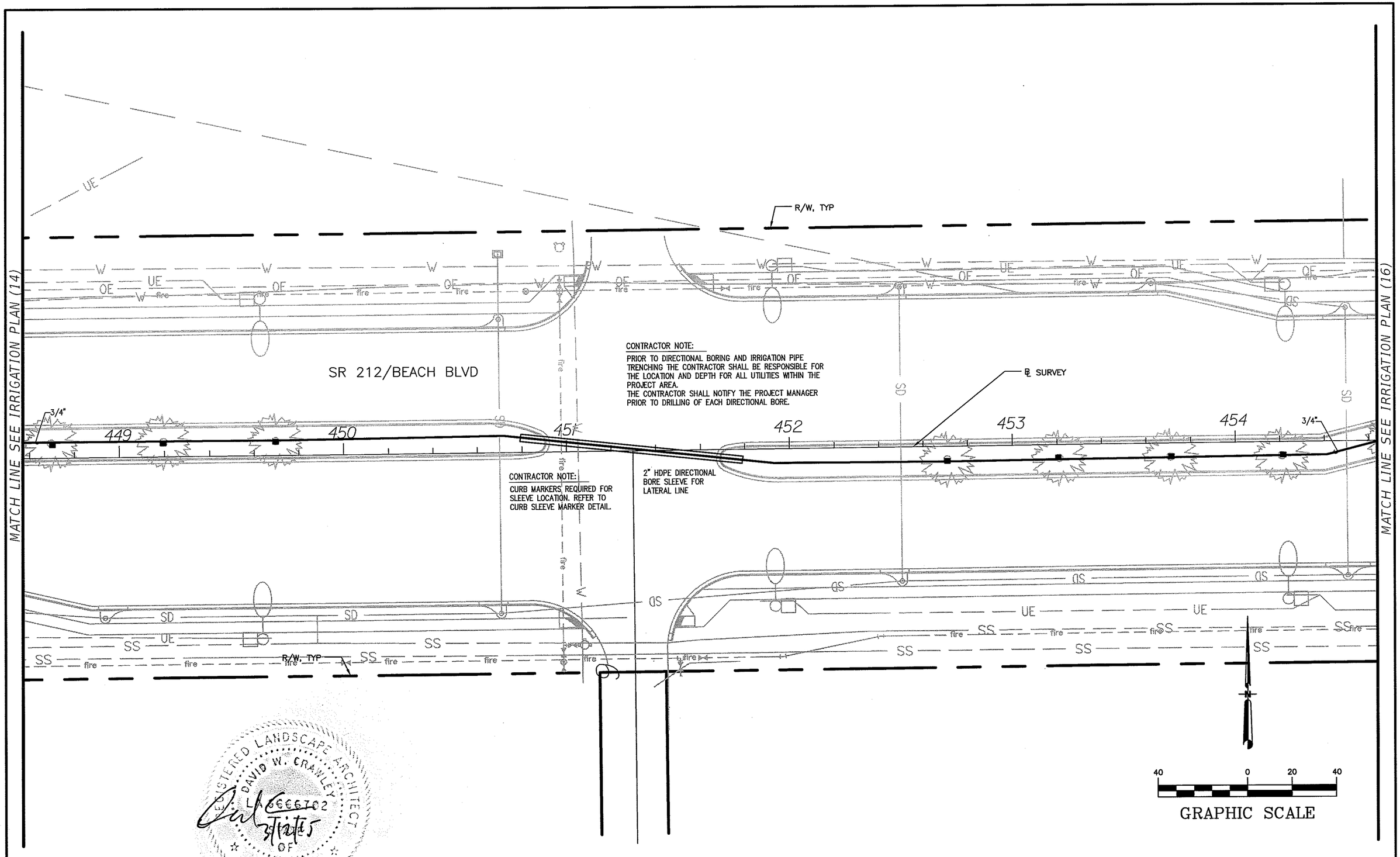
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (14)

SHEET NO.

IR-14

Monday, March 09, 2015 8:58am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR14



REGISTERED LANDSCAPE ARCHITECT DAVID W. CRAWLEY LA 6666702 STATE OF FLORIDA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

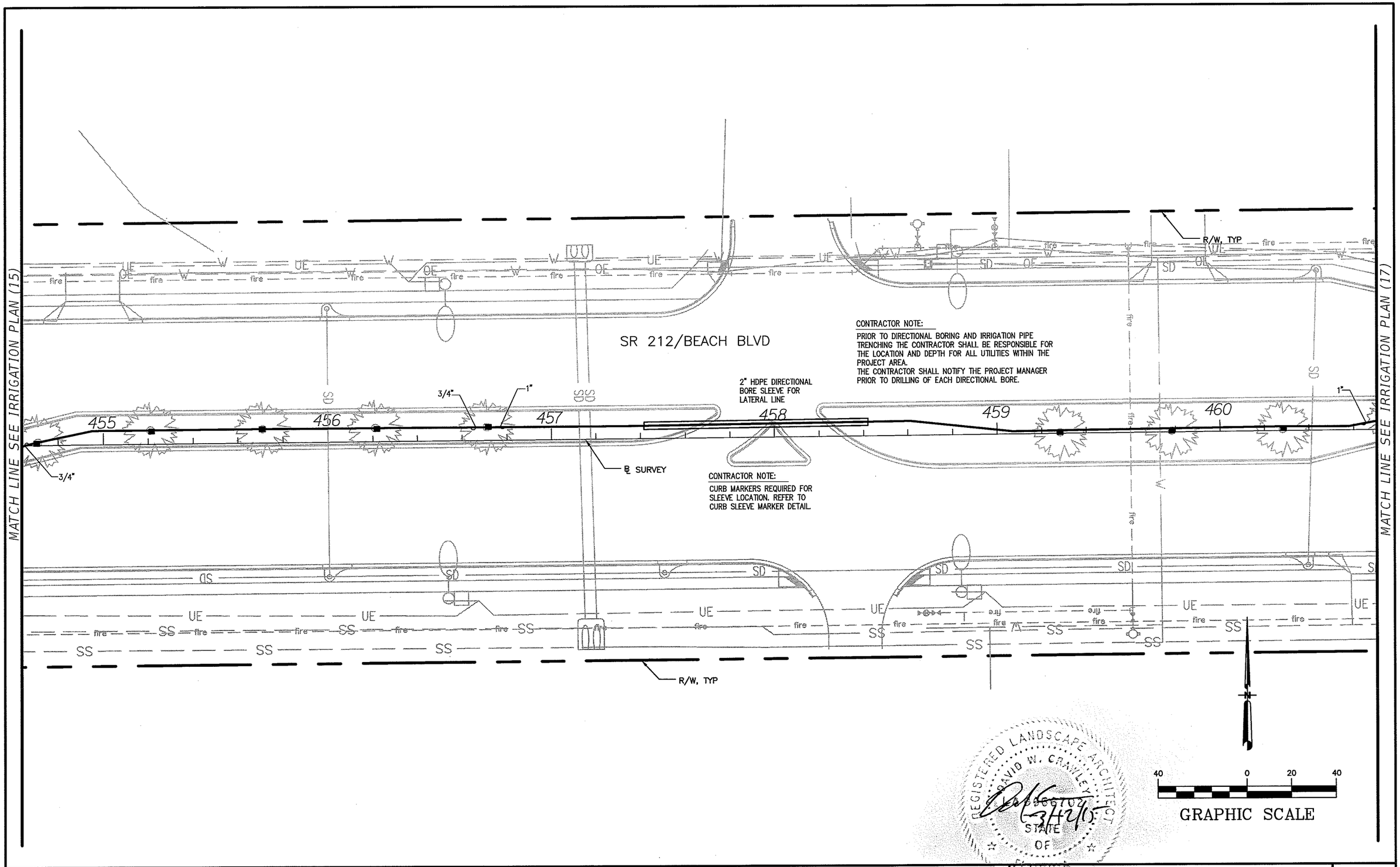
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (15)

SHEET NO.
IR-15

Monday, March 09, 2015 8:58am S:\Projects\ RDWY\ProiFdot\ProiFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR15



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

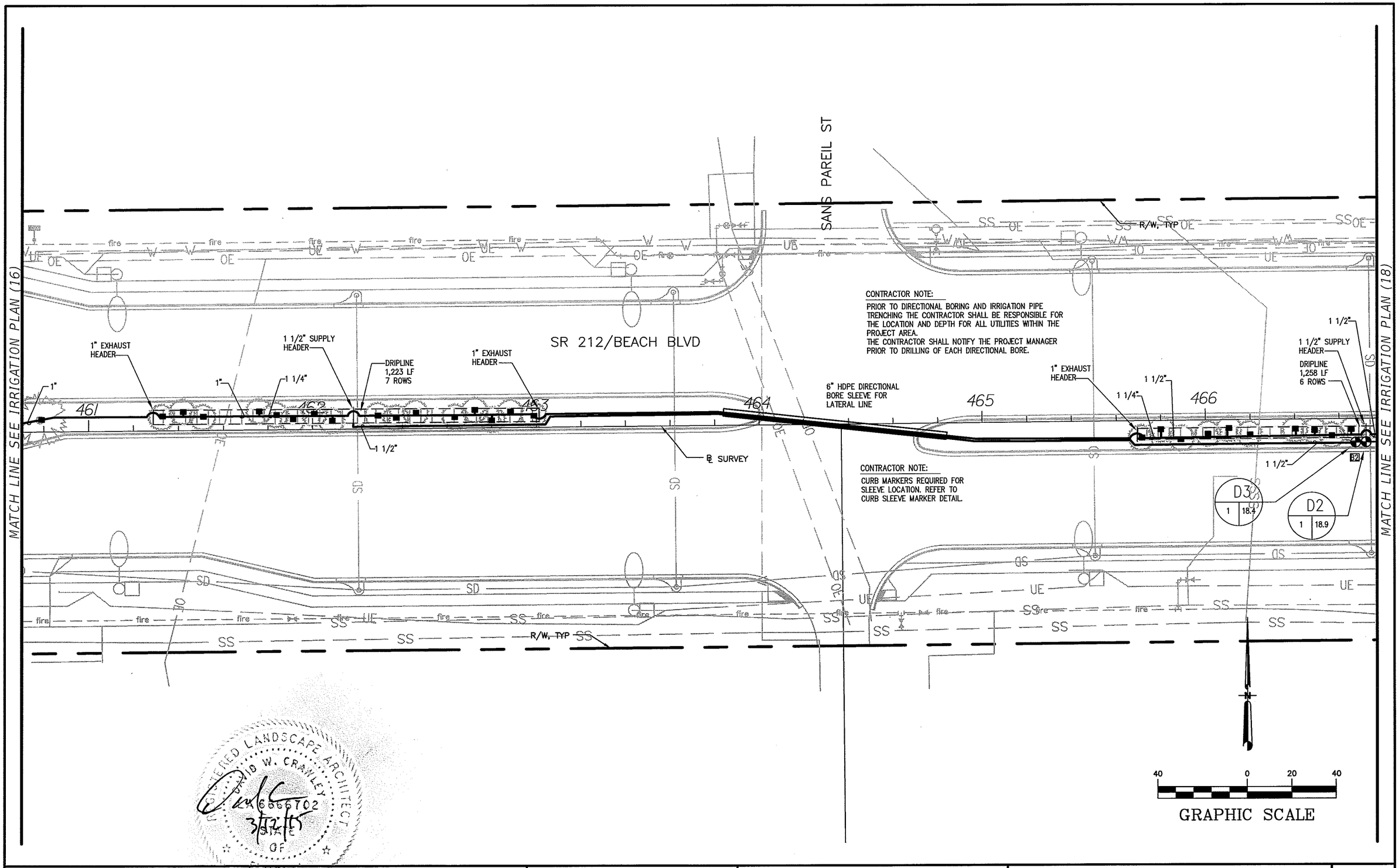
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (16)

SHEET NO.
IR-16

Monday, March 09, 2015 8:58am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR16



REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 6666702
3/12/15
STATE OF

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

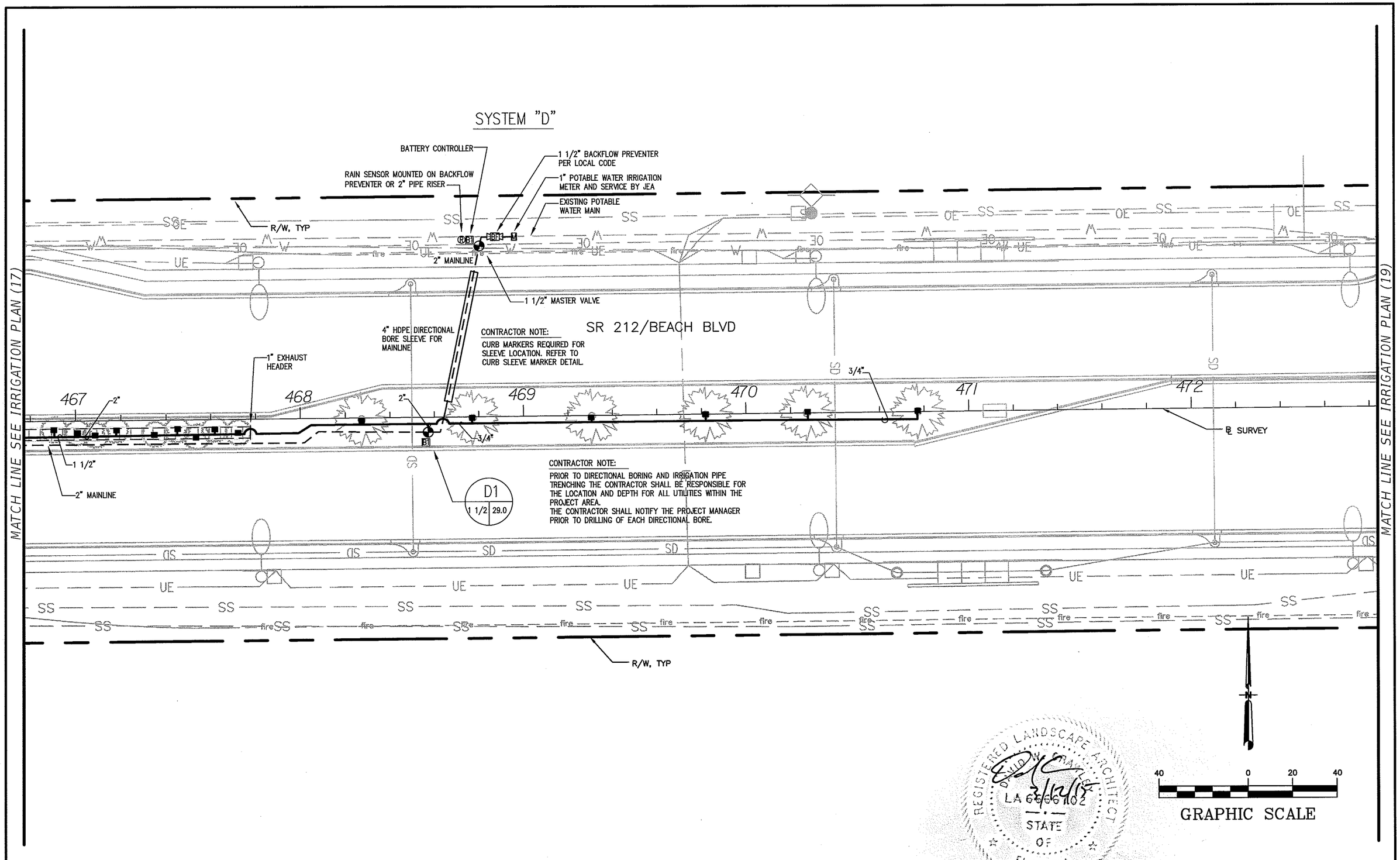
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (17)

SHEET NO.
IR-17

Monday, March 09, 2015 8:58am S:\Projects\ RDWY\ProiFdot\ProiFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR17



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

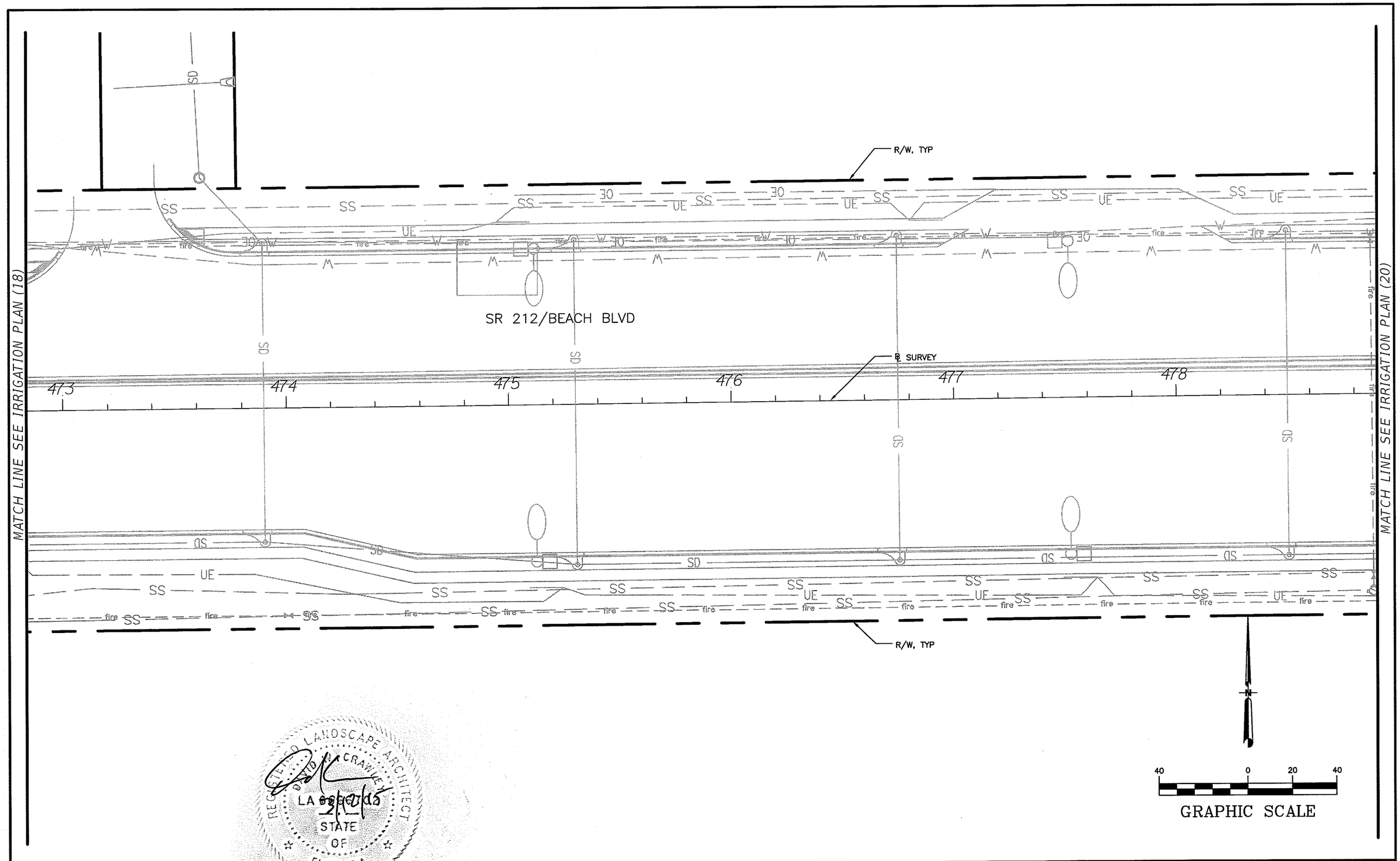
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (18)

SHEET NO.
IR-18

Monday, March 09, 2015 8:59am S:\Projects\ RDWY\ProiFdot\ProiFDOT\V8\43195515201\landsca\DSGNIR01.dwg PLANIR18



REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 6666207
STATE OF FLORIDA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (19)

SHEET NO.
IR-19

Monday, March 09, 2015 8:59am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR19

MATCH LINE SEE IRRIGATION PLAN (19)

MATCH LINE SEE IRRIGATION PLAN (21)

R/W, TYP

SS

UE

W

fire

SD

KERNAN BLVD

SR 212/BEACH BLVD

℄ SURVEY

479 480 481 482 483 484

R/W, TYP

N

40 0 20 40

GRAPHIC SCALE

SEC 33, T 2 S, R 28 E

SEC 34, T 2 S, R 28 E

REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 6666702
3/12/15
STATE OF FLORIDA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234

DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

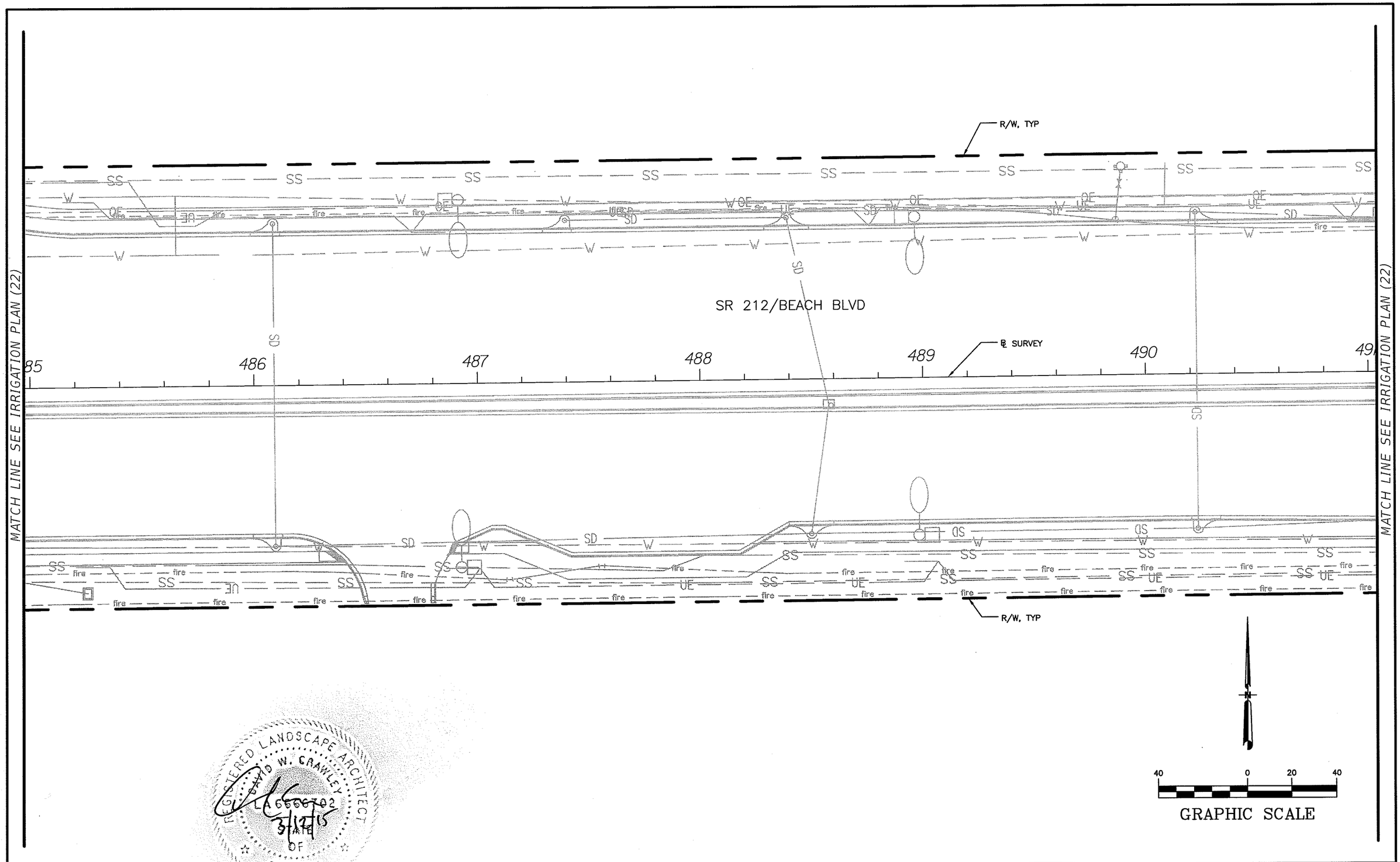
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (20)

SHEET NO.

IR-20

Monday, March 09, 2015 8:59am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landsca\DSGNIR01.dwg PLANIR20



REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA6666702
3/12/15
DATE
STATE OF FLORIDA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

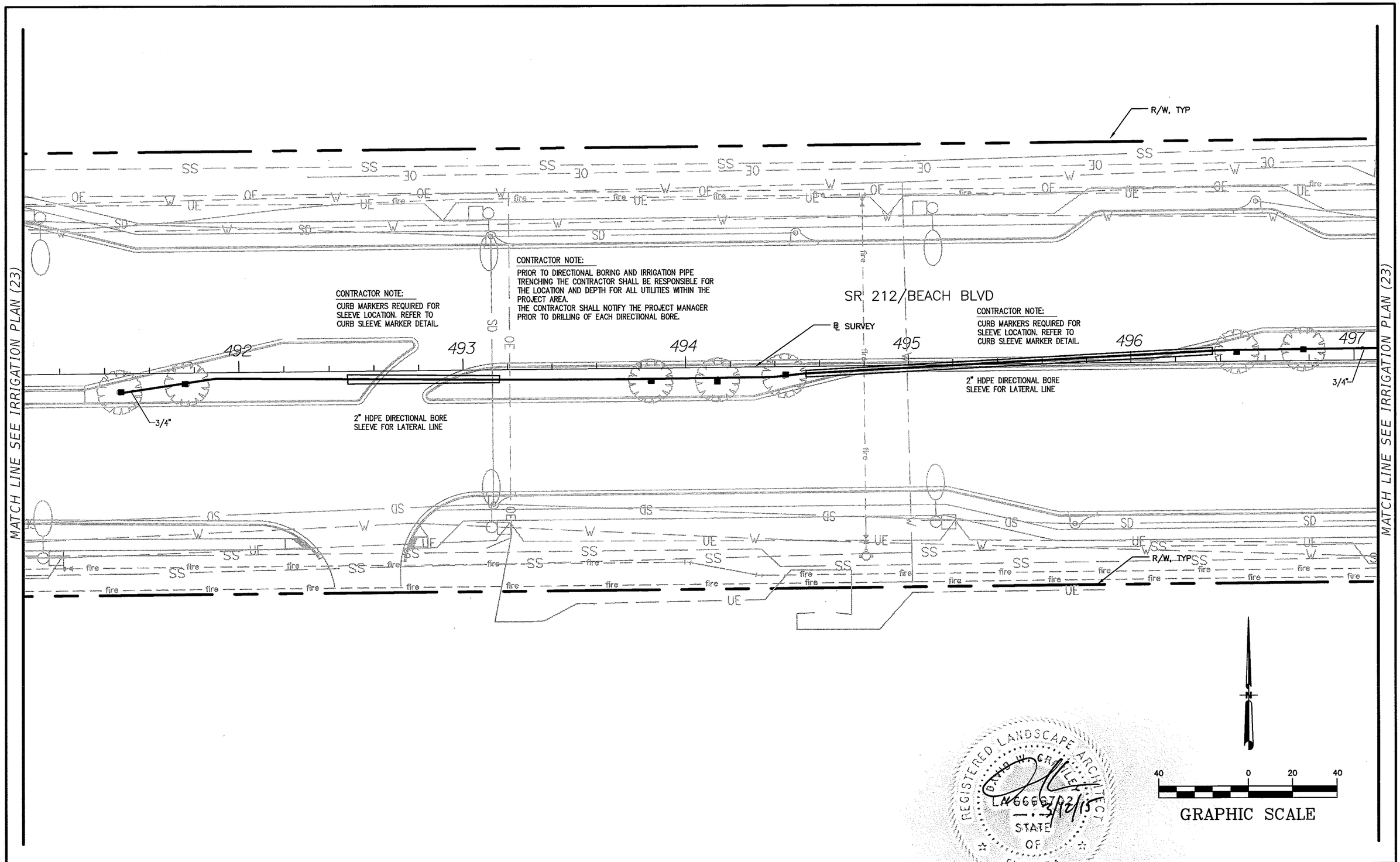
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (21)

SHEET NO.
IR-21

Monday, March 09, 2015 8:59am S:\Projects\ RDWY\ProiFdot\ProiFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR21



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

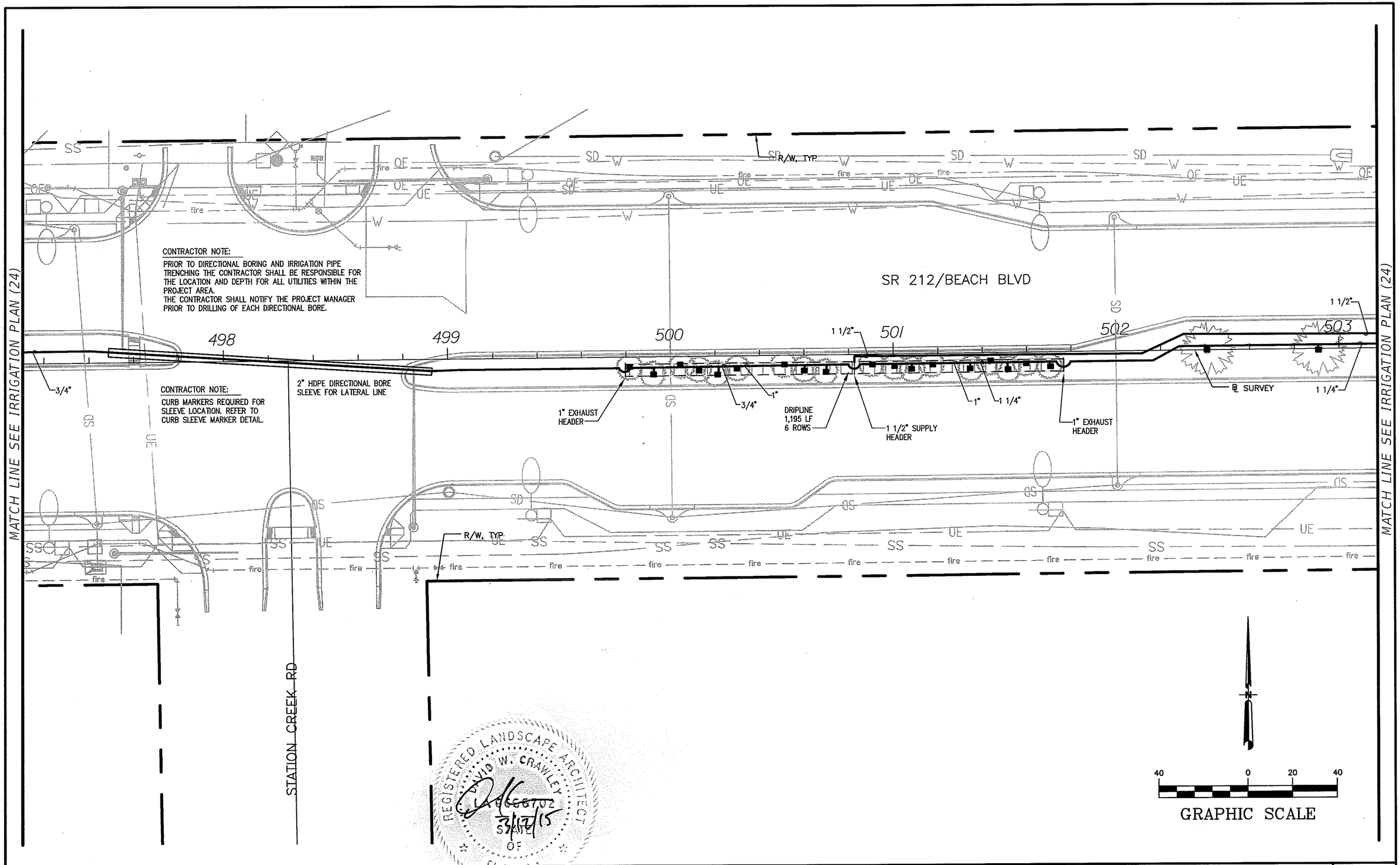
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (22)

SHEET NO.
IR-22

Monday, March 09, 2015 8:59am S:\Projects\ RDWY\ProiFdot\ProiFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR22



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

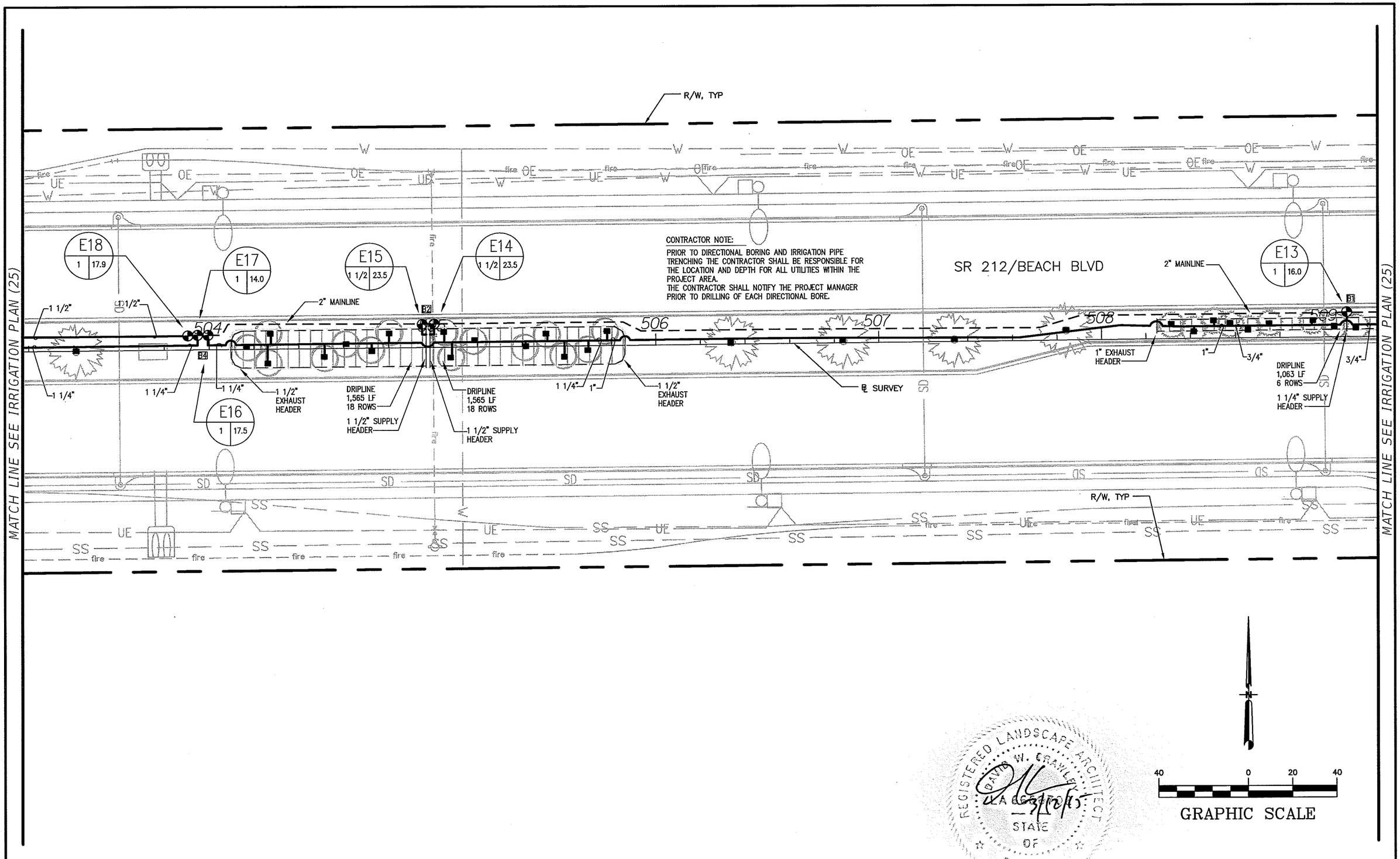
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (23)

SHEET NO.
IR-23

Monday, March 09, 2015 8:59am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR23



REGISTERED LANDSCAPE ARCHITECT DAVID W. CRAWLEY STATE OF FLORIDA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

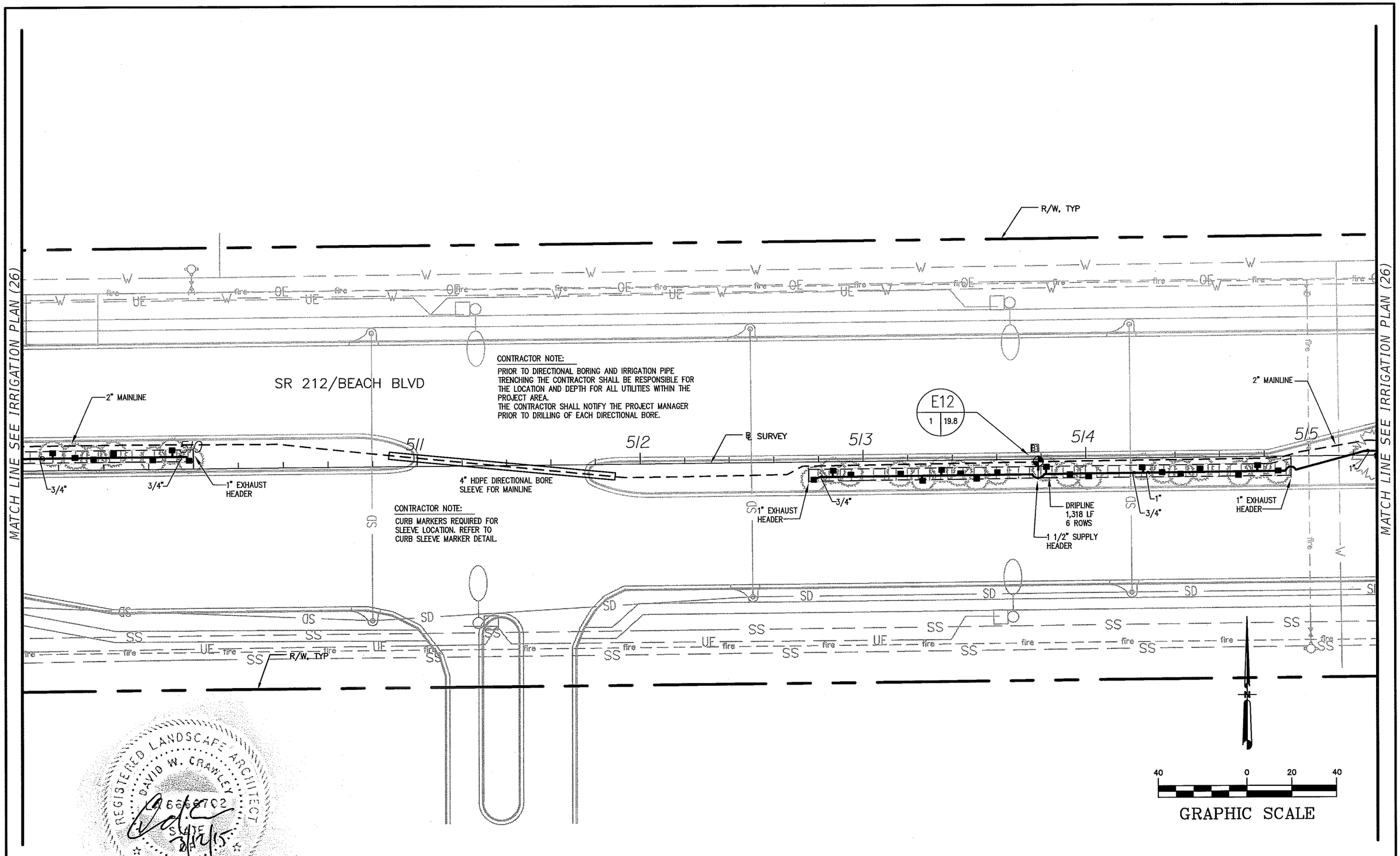
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (24)

SHEET NO.
IR-24

Monday, March 09, 2015 9:00am S:\Projects\ RDWY\ProiFdot\ProiFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR24



REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 6666702
STATE OF FLORIDA
3/12/15

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
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C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (25)

SHEET NO.
IR-25

Monday, March 09, 2015 9:00am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landsca\DSGNIR01.dwg PLANIR25

MATCH LINE SEE IRRIGATION PLAN (25)

MATCH LINE SEE IRRIGATION PLAN (27)

R/W, TYP

SR 212/BEACH BLVD

CONTRACTOR NOTE:

PRIOR TO DIRECTIONAL BORING AND IRRIGATION PIPE TRENCHING THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND DEPTH FOR ALL UTILITIES WITHIN THE PROJECT AREA.
THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER PRIOR TO DRILLING OF EACH DIRECTIONAL BORE.

E11 | 1 1/2 | 24.5

E10 | 1 1/2 | 24.5

B2

2" MAINLINE

1 1/2"

516 517 518 519 520 521

1"

1 1/4"

℄ SURVEY

1 1/2" EXHAUST HEADER

1 1/4" DRIPLINE 1,633 LF 18 ROWS

1 1/2" SUPPLY HEADER

DRIPLINE 1,633 LF 18 ROWS

1 1/2" SUPPLY HEADER

1 1/2" EXHAUST HEADER

1 1/2"

1 1/2" EXHAUST HEADER

SD SS UE OE fire W

R/W, TYP

REGISTERED LANDSCAPE ARCHITECT DAVID W. CRAWLEY LA#6666702 STATE OF FLORIDA 3/12/15

40 0 20 40

GRAPHIC SCALE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666707

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (26)

SHEET NO.

IR-26

Monday, March 09, 2015 9:00am S:\Projects\ RDWY\ProiFdot\ProiFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR26

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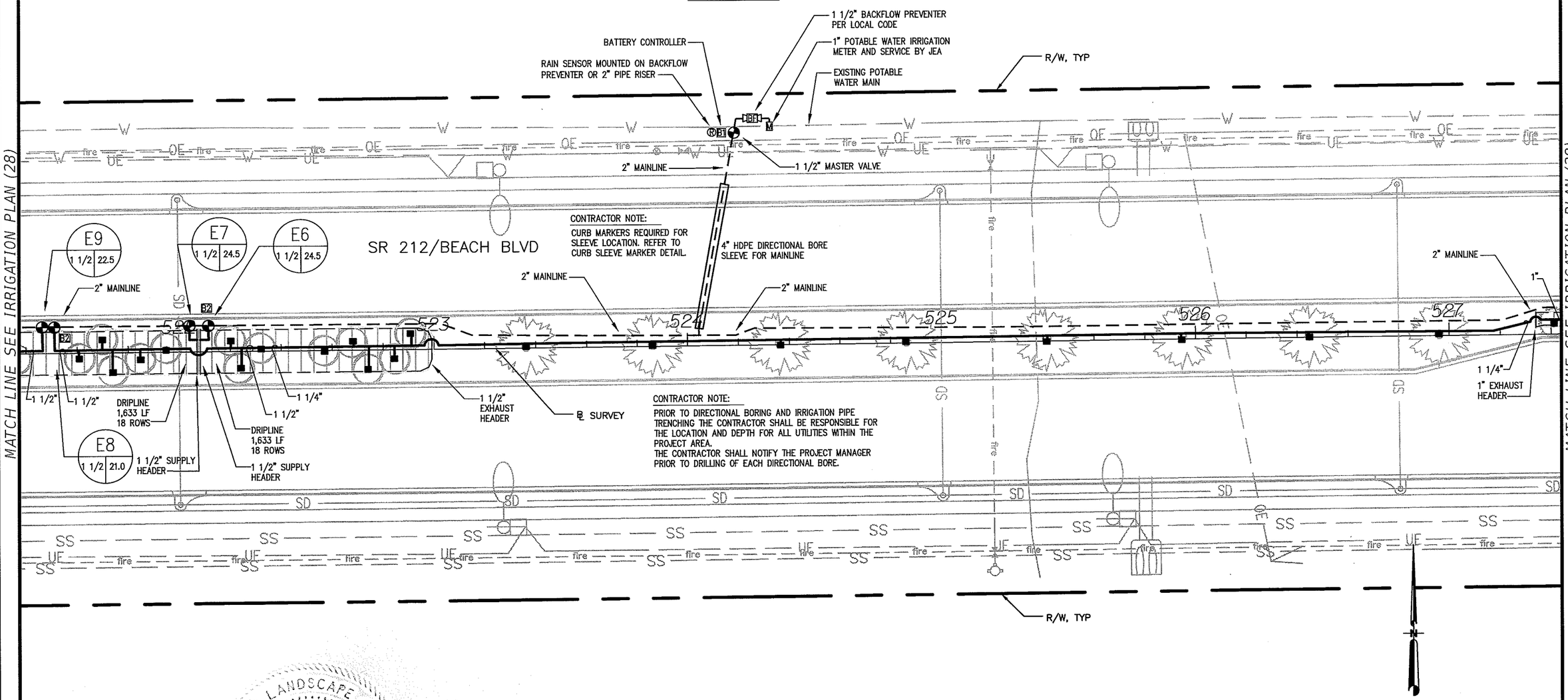


REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
STATE OF FLORIDA
3/12/15

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

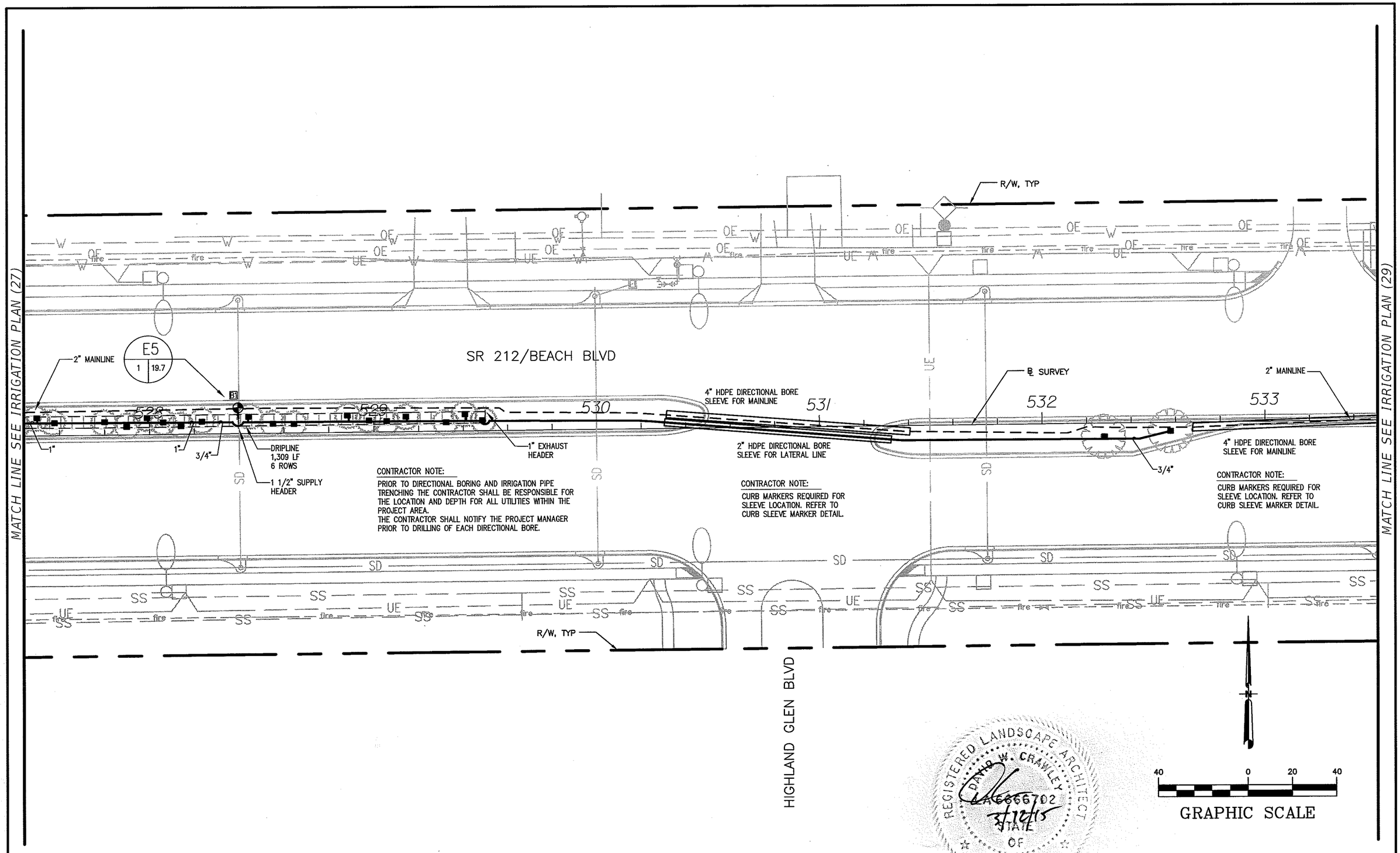
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (27)

SHEET NO.
IR-27

Monday, March 09, 2015 9:00am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR27



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

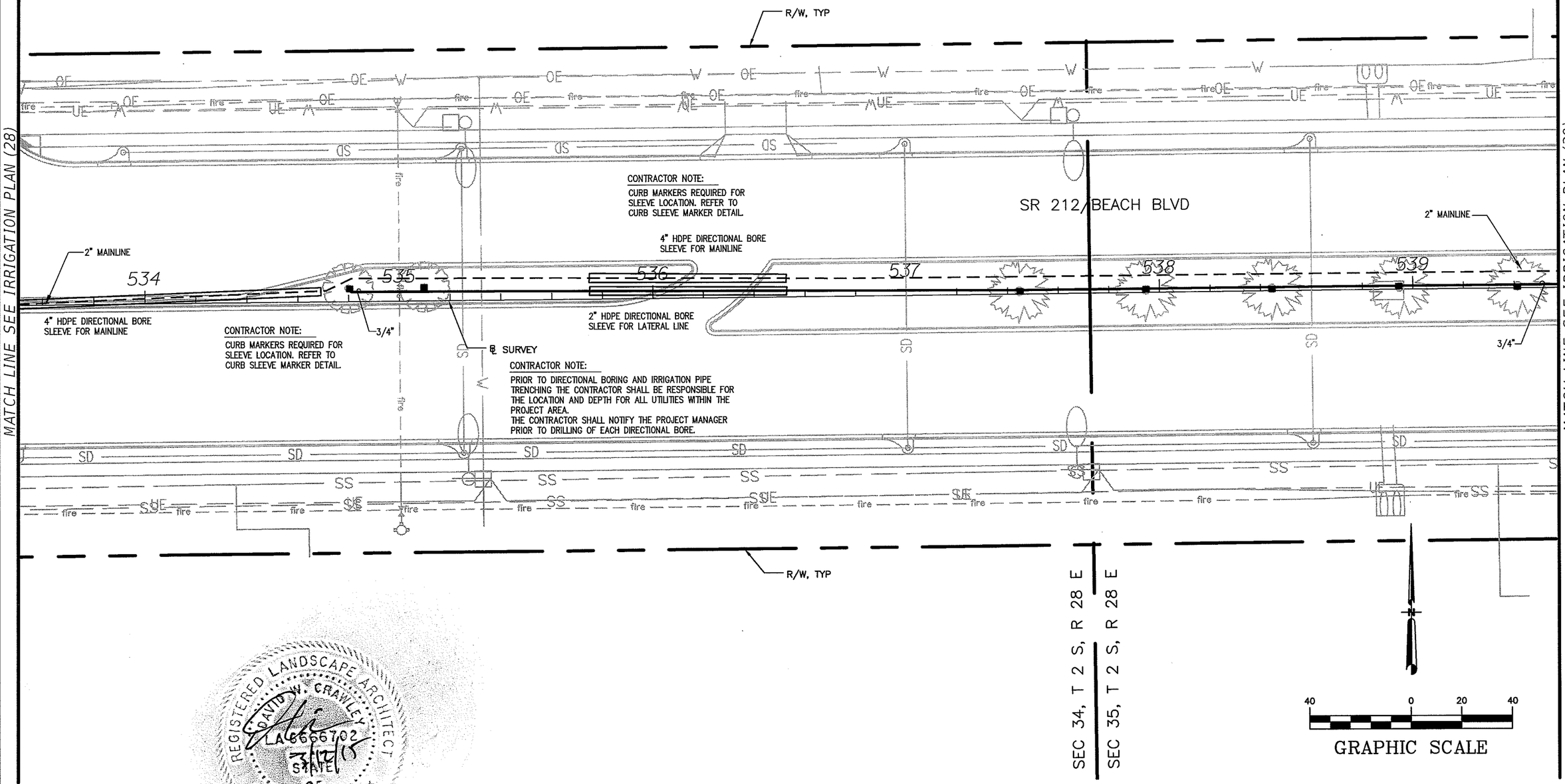
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (28)

SHEET NO.
IR-28

Monday, March 09, 2015 9:00am S:\Projects\ RDWY\ProiFdot\ProiFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR28



REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA6666702
3/12/15
STATE OF FLORIDA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

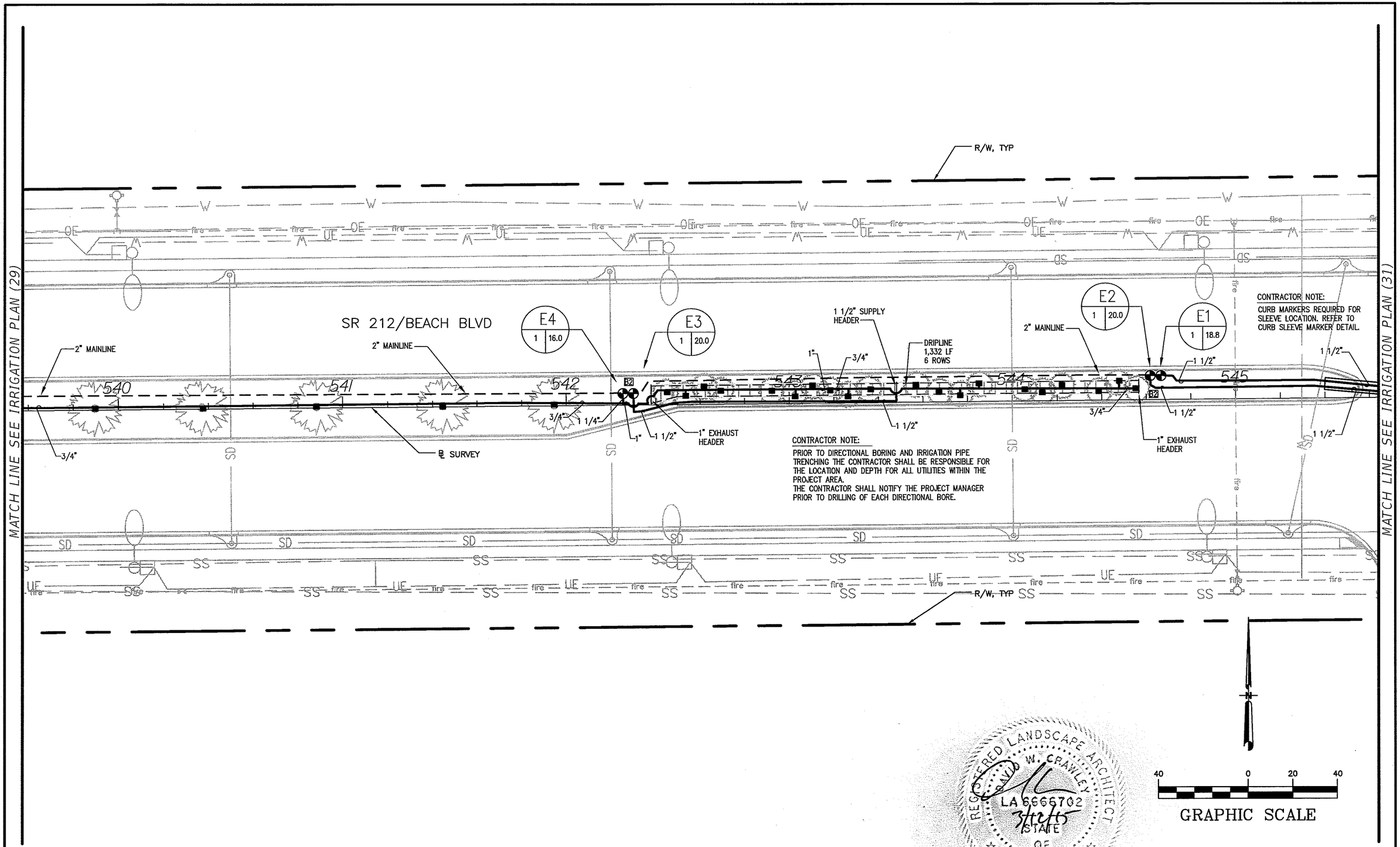
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (29)

SHEET NO.
IR-29

Monday, March 09, 2015 9:00am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR29



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

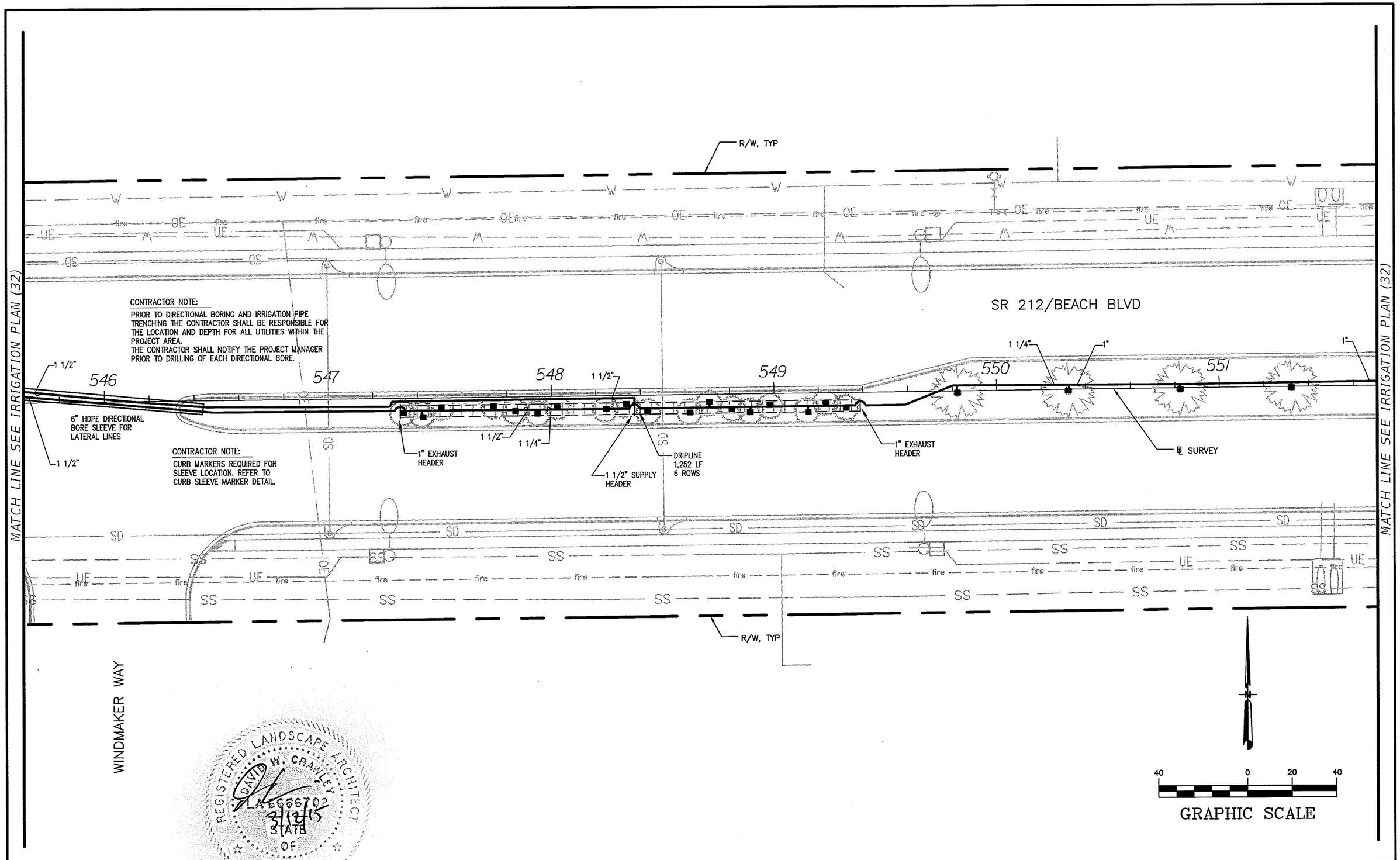
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (30)

SHEET NO.
IR-30

Monday, March 09, 2015 9:01am S:\Projects\ RDWY\ProiFdot\ProiFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR30



REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 6666702
3/12/15
STATE OF FLORIDA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
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DAVID W. CRAWLEY, RLA LA# 6666207

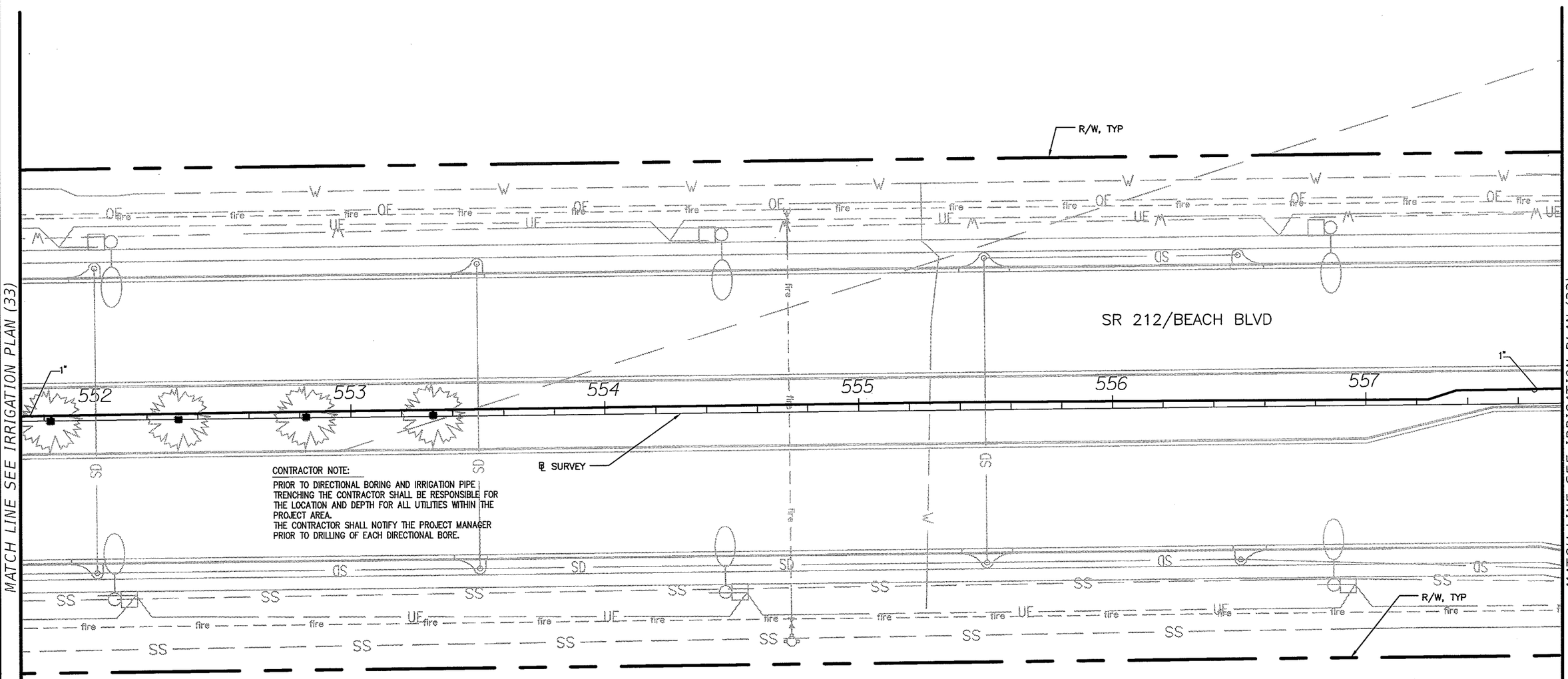
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (31)

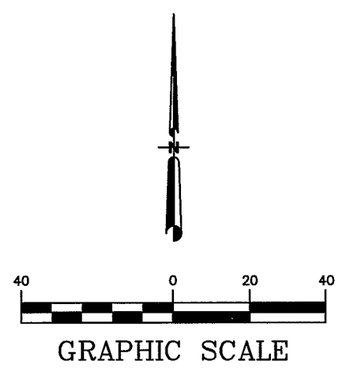
SHEET NO.
IR-31

Monday, March 09, 2015 9:01am S:\Projects\ RDWY\ProiFdot\ProiFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR31



CONTRACTOR NOTE:

PRIOR TO DIRECTIONAL BORING AND IRRIGATION PIPE TRENCHING THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND DEPTH FOR ALL UTILITIES WITHIN THE PROJECT AREA.
THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER PRIOR TO DRILLING OF EACH DIRECTIONAL BORE.



REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 6666702
3/10/15
STATE OF FLORIDA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
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Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (32)

SHEET NO.
IR-32

Monday, March 09, 2015 9:01am S:\Projects\ RDWY\ProiFdot\ProiFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR32

MATCH LINE SEE IRRIGATION PLAN (32)

MATCH LINE SEE IRRIGATION PLAN (34)

BROUGHAM AVE

SR 212/BEACH BLVD

R/W, TYP

CONTRACTOR NOTE:

PRIOR TO DIRECTIONAL BORING AND IRRIGATION PIPE TRENCHING THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND DEPTH FOR ALL UTILITIES WITHIN THE PROJECT AREA.
THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER PRIOR TO DRILLING OF EACH DIRECTIONAL BORE.

CONTRACTOR TO BE AWARE OF STORM DRAIN PIPING.

CONTRACTOR NOTE:

CURB MARKERS REQUIRED FOR SLEEVE LOCATION. REFER TO CURB SLEEVE MARKER DETAIL.

℄ SURVEY

558 559 560 561 562 563

1" 1" 3/4" 3/4"

2" HDPE DIRECTIONAL BORE SLEEVE FOR LATERAL LINE

R/W, TYP

BROUGHAM AVE

40 0 20 40

GRAPHIC SCALE

REGISTERED LANDSCAPE ARCHITECT DAVID W. CRAWLEY LA 6666702 STATE OF FLORIDA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (33)

SHEET NO.

IR-33

Monday, March 09, 2015 9:01am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR33

MATCH LINE SEE IRRIGATION PLAN (35)

W GERONA DR

R/W, TYP

SR 212/BEACH BLVD

℄ SURVEY

564 565 566 567 568 569

3/4"

CONTRACTOR NOTE:
CURB MARKERS REQUIRED FOR SLEEVE LOCATION. REFER TO CURB SLEEVE MARKER DETAIL.

2" HDPE DIRECTIONAL BORE SLEEVE FOR LATERAL LINE

CONTRACTOR NOTE:
PRIOR TO DIRECTIONAL BORING AND IRRIGATION PIPE TRENCHING THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND DEPTH FOR ALL UTILITIES WITHIN THE PROJECT AREA.
THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER PRIOR TO DRILLING OF EACH DIRECTIONAL BORE.

CONTRACTOR NOTE:
CURB MARKERS REQUIRED FOR SLEEVE LOCATION. REFER TO CURB SLEEVE MARKER DETAIL.

3/4"

R/W, TYP

MATCH LINE SEE IRRIGATION PLAN (35)

REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 6666702
STATE OF FLORIDA
3/12/15

40 0 20 40
GRAPHIC SCALE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
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C.A. No. LCC 000234
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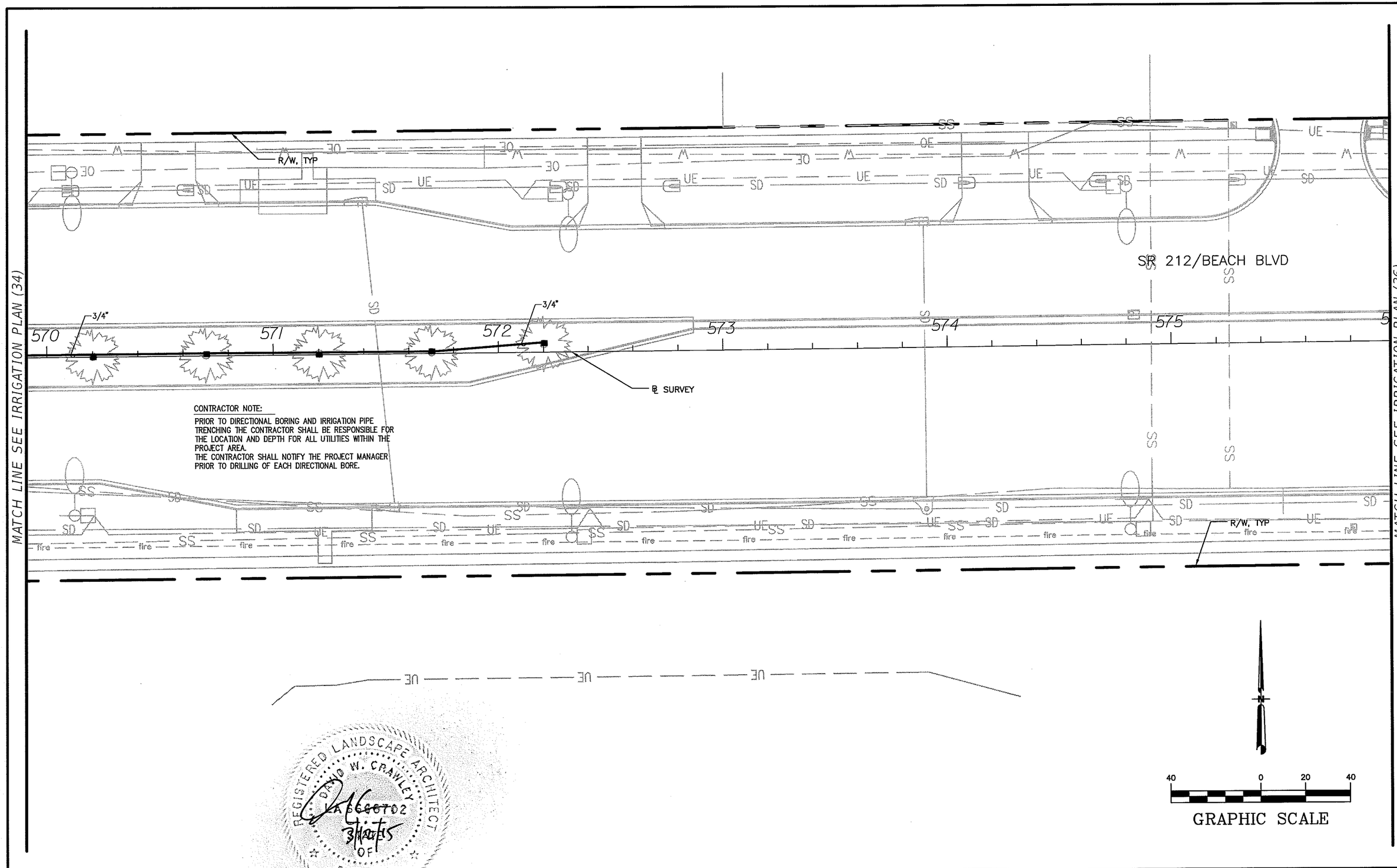
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (34)

SHEET NO.
IR-34

Monday, March 09, 2015 9:01am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR34



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

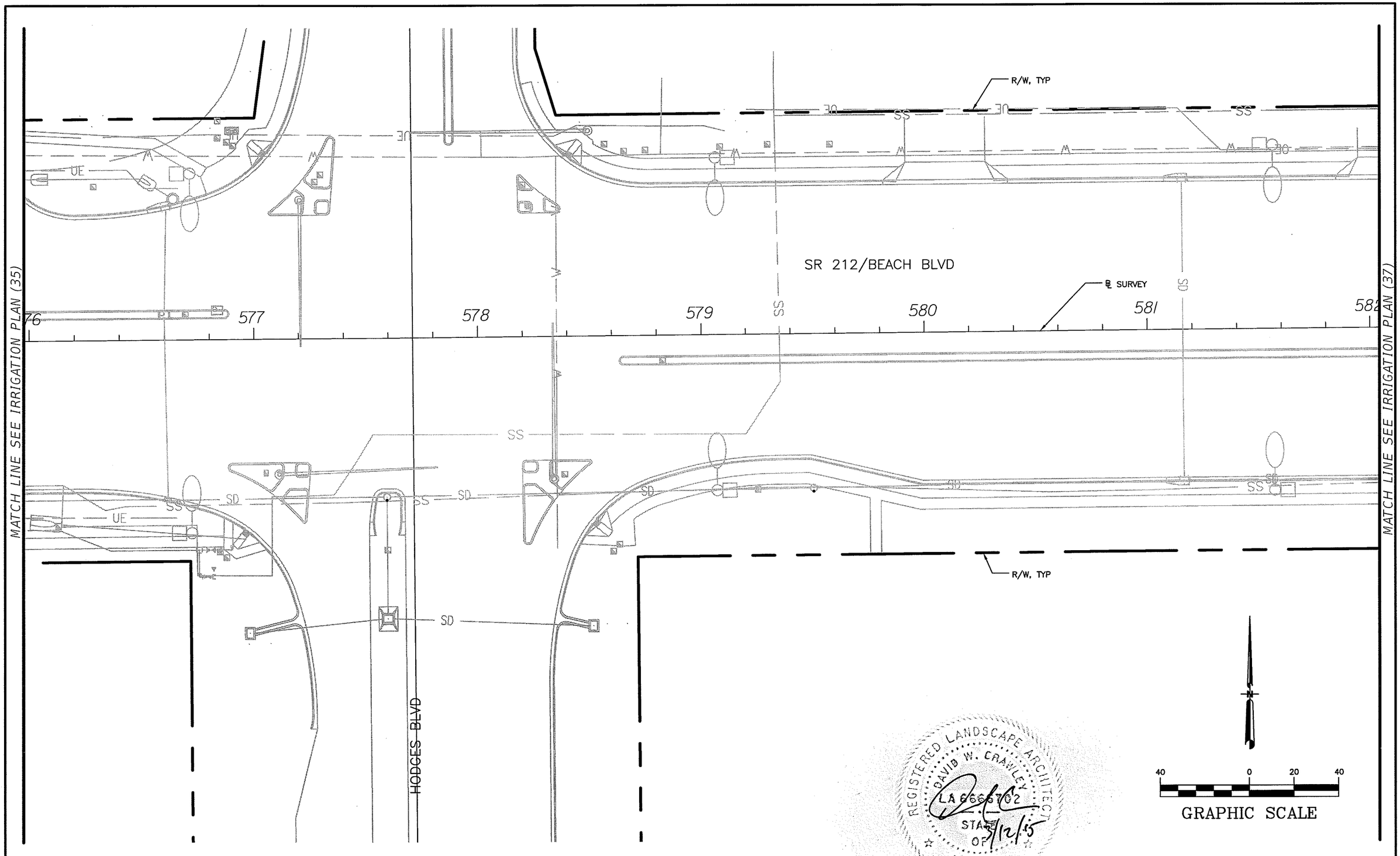
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (35)

SHEET NO.
IR-35

Monday, March 09, 2015 9:01am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR35



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (36)

SHEET NO.
IR-36

Monday, March 09, 2015 9:02am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR36

MATCH LINE SEE IRRIGATION PLAN (36)

MATCH LINE SEE IRRIGATION PLAN (38)

R/W, TYP

E GERONA DR

SR 212/BEACH BLVD

CONTRACTOR NOTE:
CURB MARKERS REQUIRED FOR SLEEVE LOCATION. REFER TO CURB SLEEVE MARKER DETAIL.

583 584 585 586 587 588

3/4"

2" HDPE DIRECTIONAL BORE SLEEVE FOR LATERAL LINE

3/4"

℄ SURVEY

CONTRACTOR NOTE:
PRIOR TO DIRECTIONAL BORING AND IRRIGATION PIPE TRENCHING THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND DEPTH FOR ALL UTILITIES WITHIN THE PROJECT AREA.
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R/W, TYP

40 0 20 40

GRAPHIC SCALE

REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
6666702
3/12/15
STATE OF FLORIDA

REVISIONS			
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URS Corporation Southern
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Tampa, FL 33607-1462
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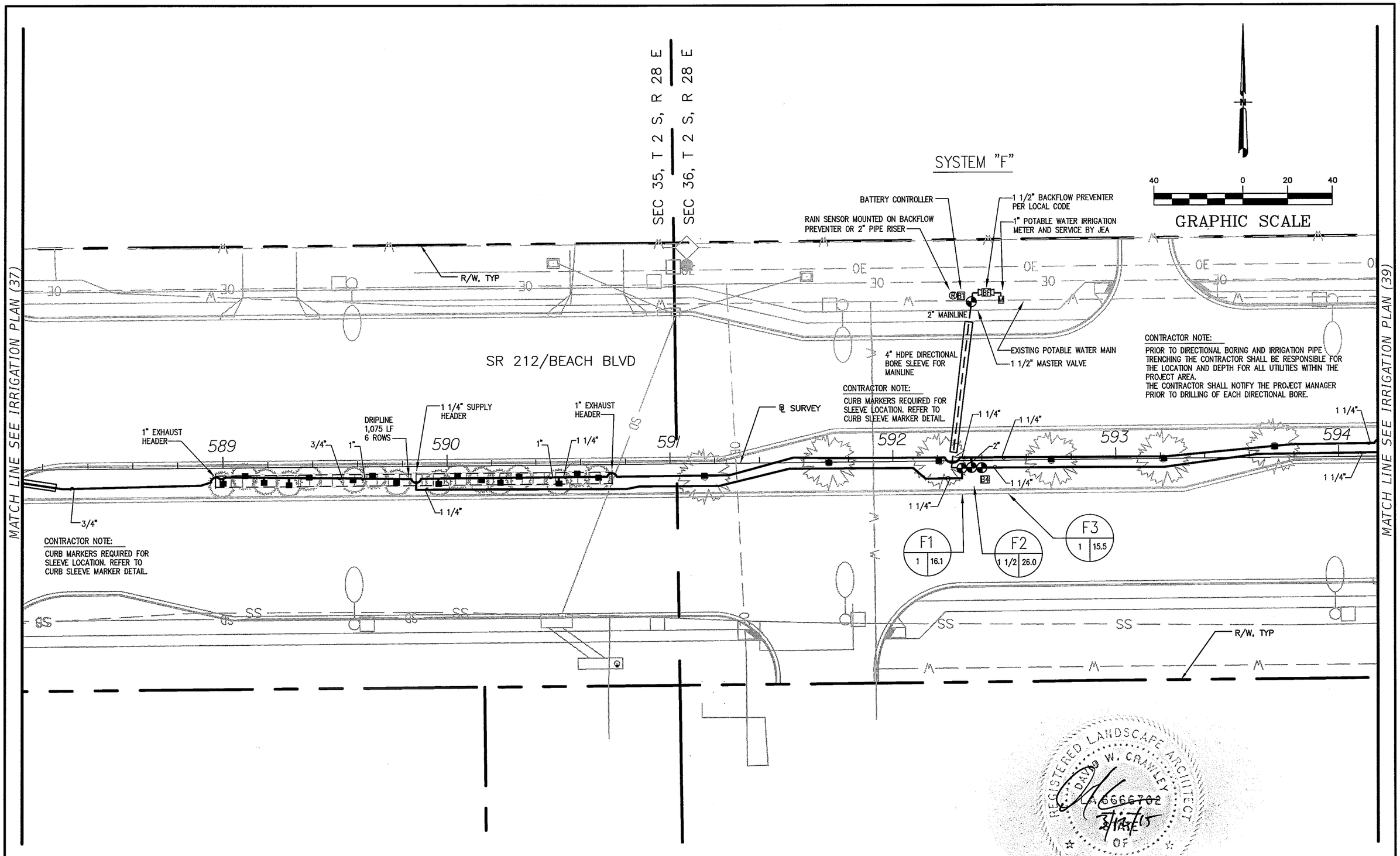
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (37)

SHEET NO.
IR-37

Monday, March 09, 2015 9:02am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR37



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

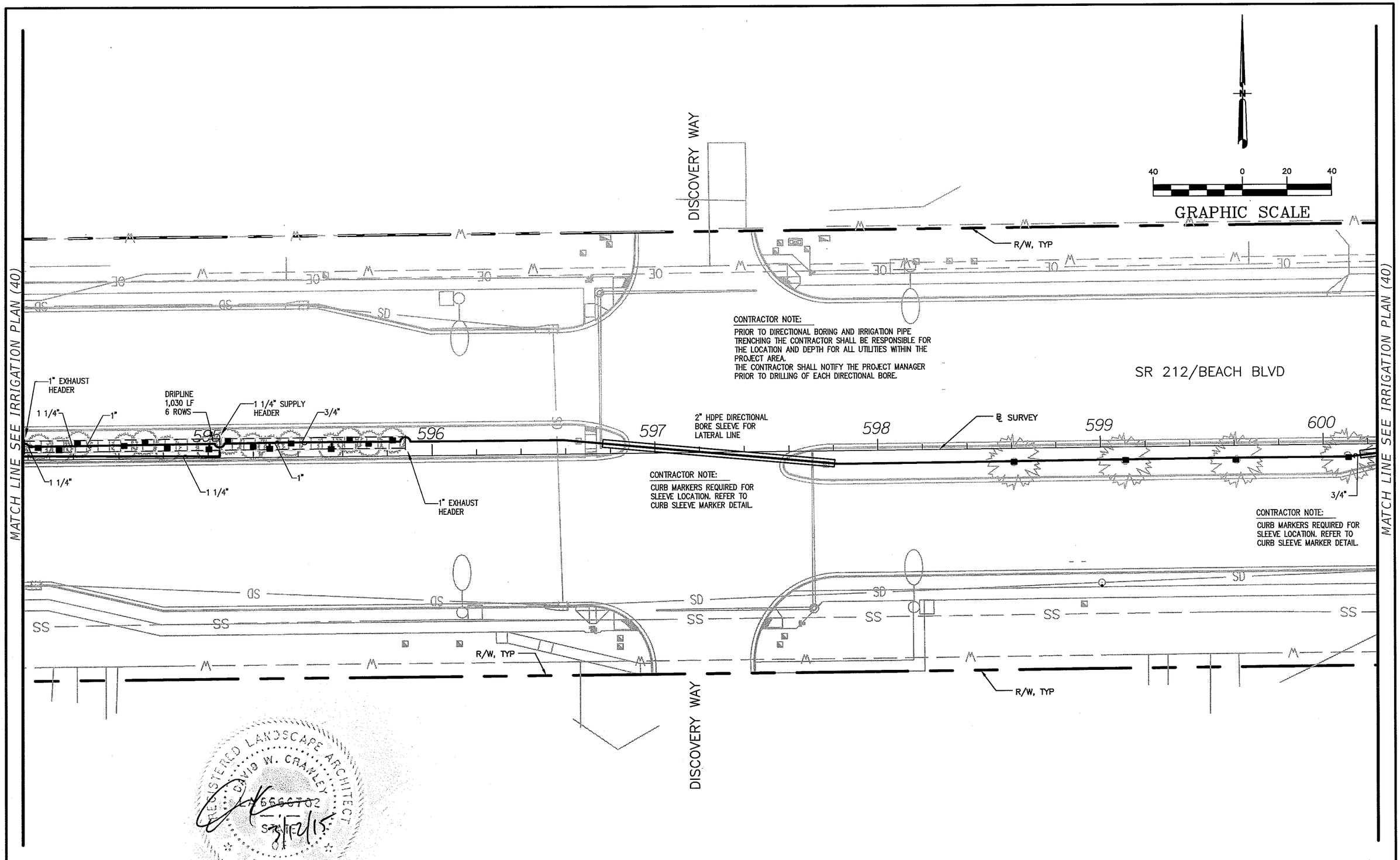
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (38)

SHEET NO.
IR-38

Monday, March 09, 2015 9:02am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR38



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

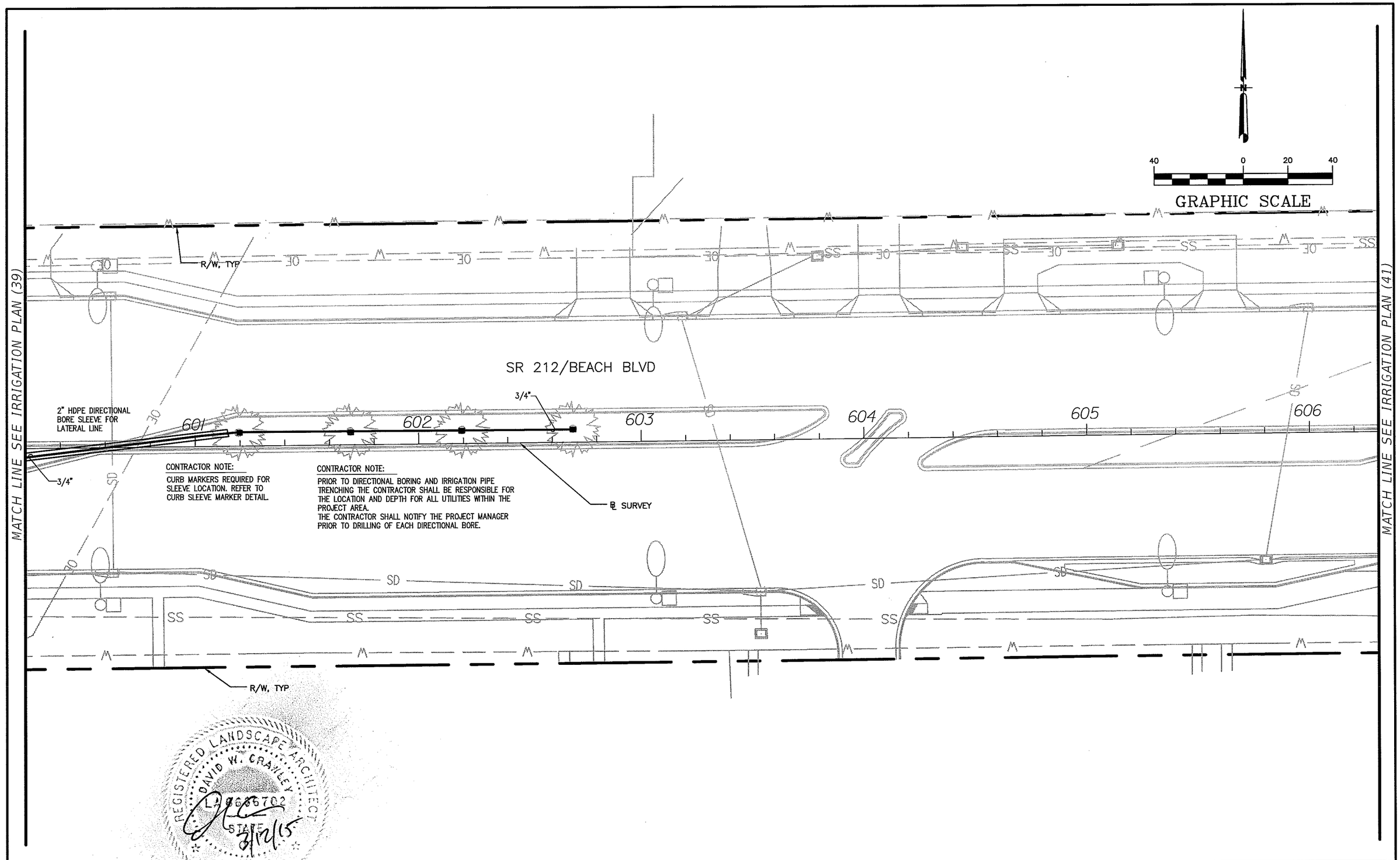
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (39)

SHEET NO.
IR-39

Monday, March 09, 2015 9:02am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\4319551201\landscp\DSGNIR01.dwg PLANIR39



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

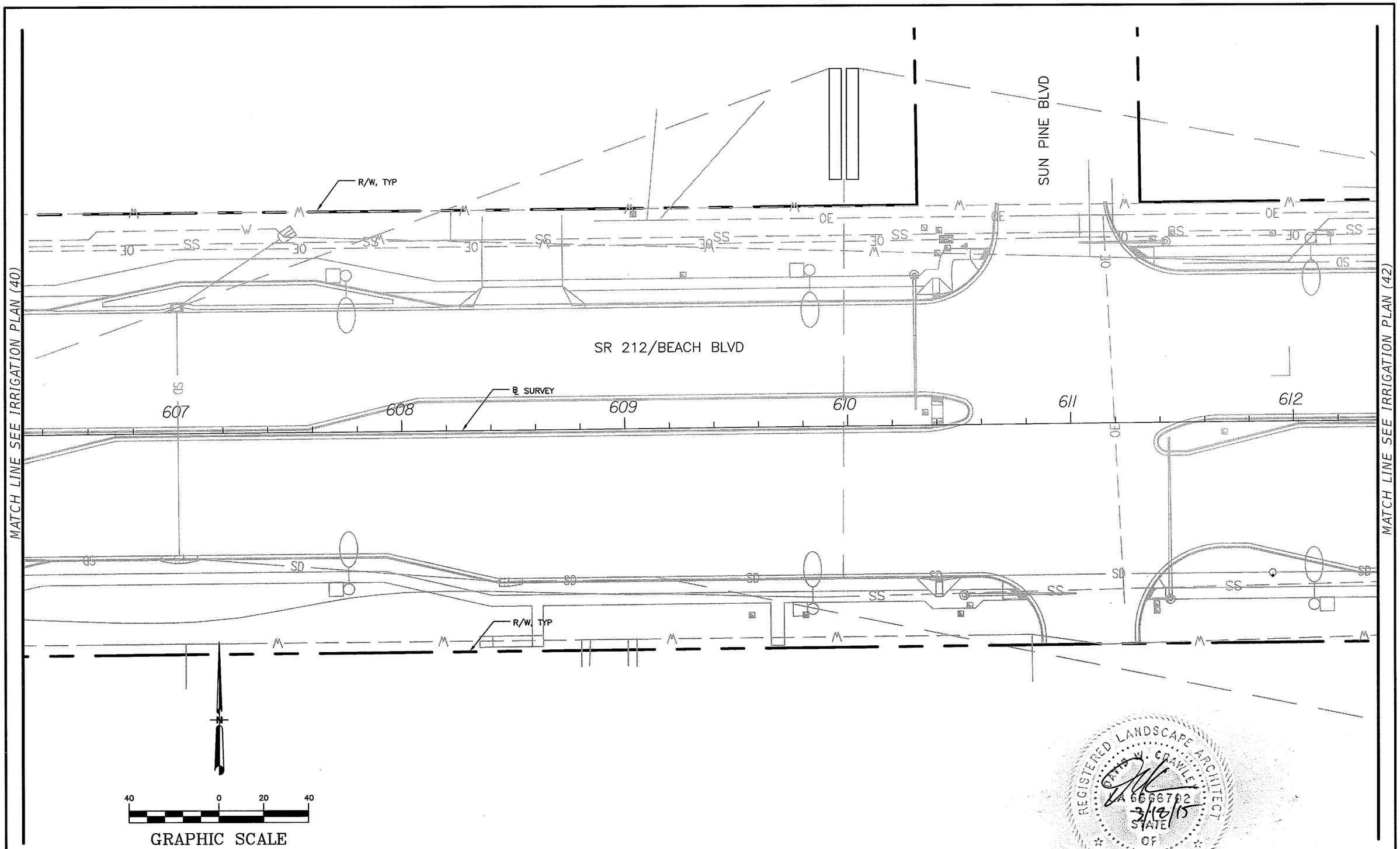
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (40)

SHEET NO.
IR-40

Monday, March 09, 2015 9:02am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR40



REVISIONS			
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URS Corporation Southern
7650 West Courtney
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Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (41)

SHEET NO.
IR-41

Monday, March 09, 2015 9:02am S:\Projects\ RDWY\ProiFdot\ProiFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR41

MATCH LINE SEE IRRIGATION PLAN (41)

MATCH LINE SEE IRRIGATION PLAN (43)

R/W, TYP

SR 212/BEACH BLVD

℄ SURVEY

613 614 615 616 617 618

AIRRIDGE MALL

R/W, TYP

40 0 20 40

GRAPHIC SCALE

REGISTERED LANDSCAPE ARCHITECT DAVID W. CRAWLEY 6666702 STATE OF FLORIDA 3/12/15

REVISIONS			
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URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

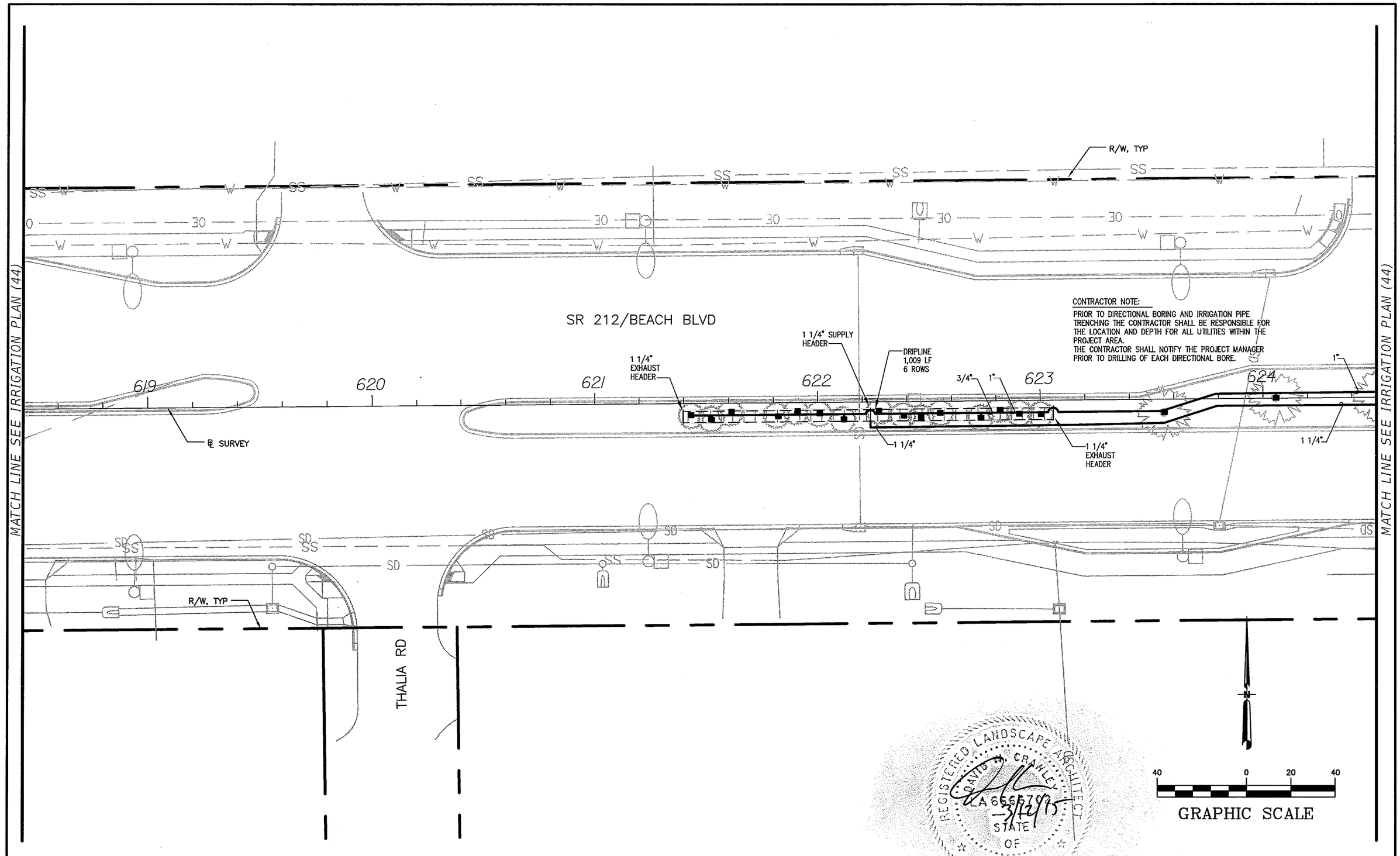
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (42)

SHEET NO.

IR-42

Monday, March 09, 2015 9:03am S:\Projects\ RDWY\ProiFdot\ProiFDOT\V8\4319551520\landscp\DSGNIR01.dwg PLANIR42



REVISIONS			
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URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

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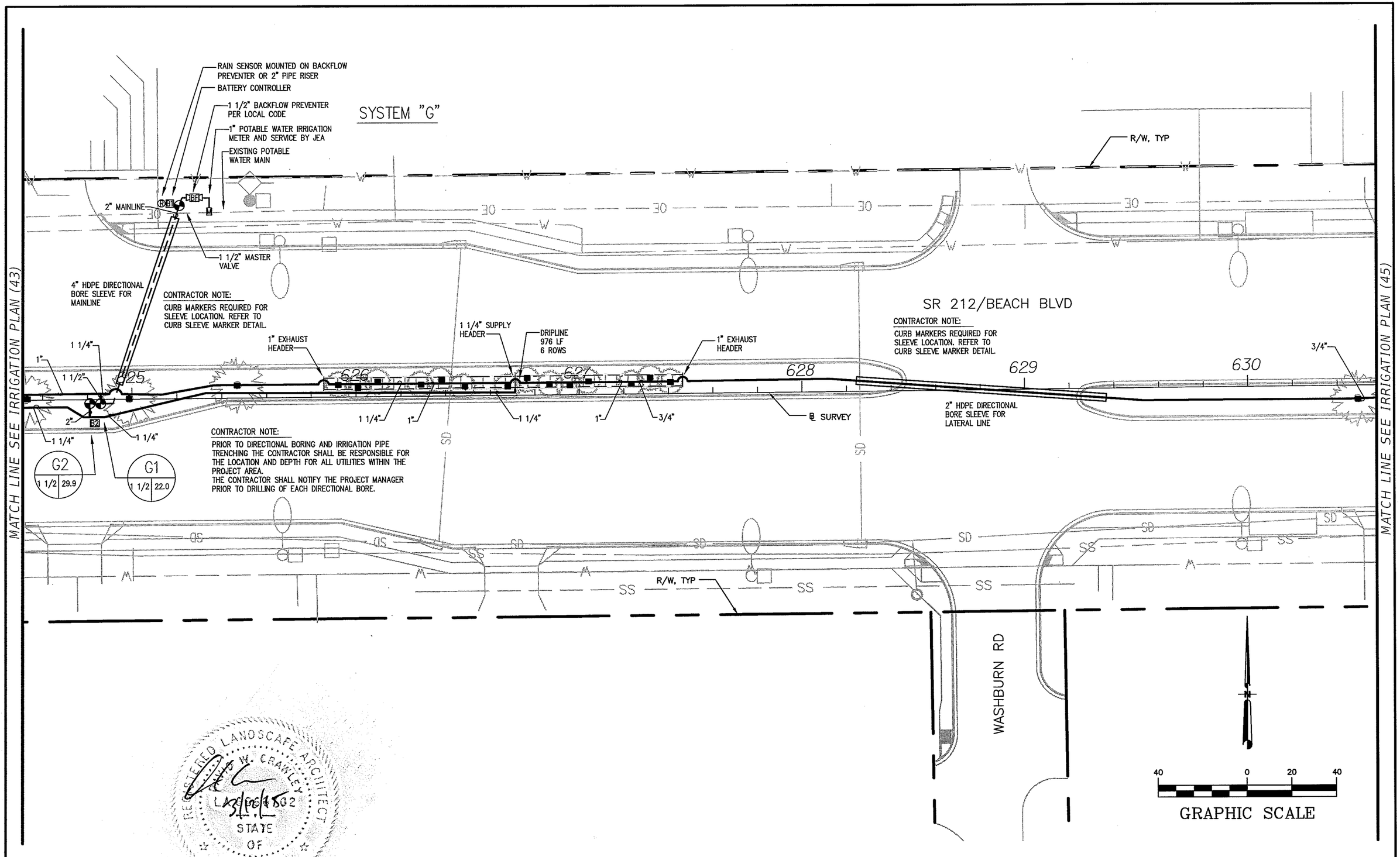
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (43)

SHEET NO.
IR-43

Monday, March 09, 2015 9:03am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR43



REGISTERED LANDSCAPE ARCHITECT DAVID W. CRAWLEY LA# 6666207 STATE OF FLORIDA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

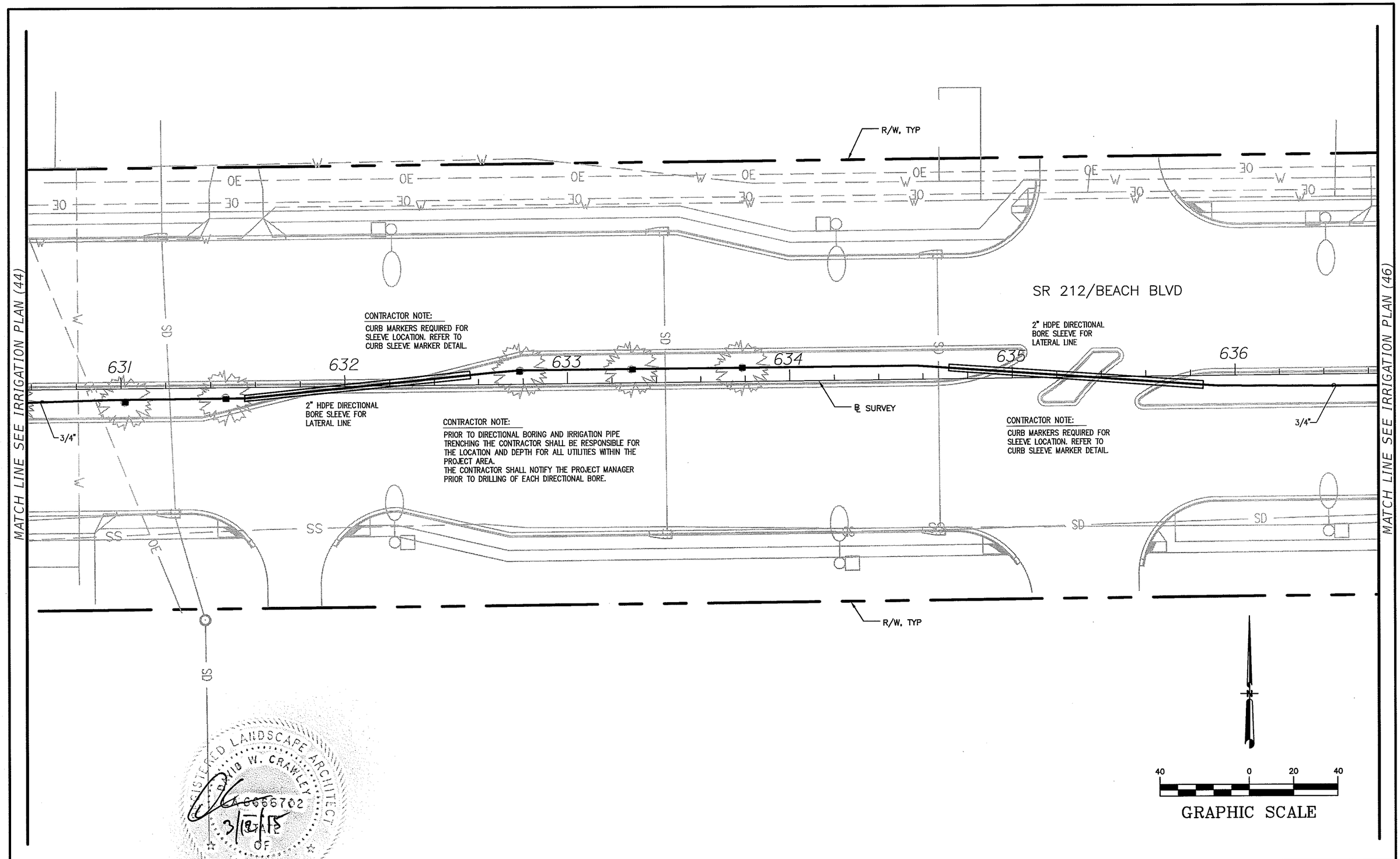
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (44)

SHEET NO.
IR-44

Monday, March 09, 2015 9:03am S:\Projects\ RDWY\ProiFdot\ProiFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR44



REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 6666702
3/12/15
STATE OF FLORIDA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
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C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

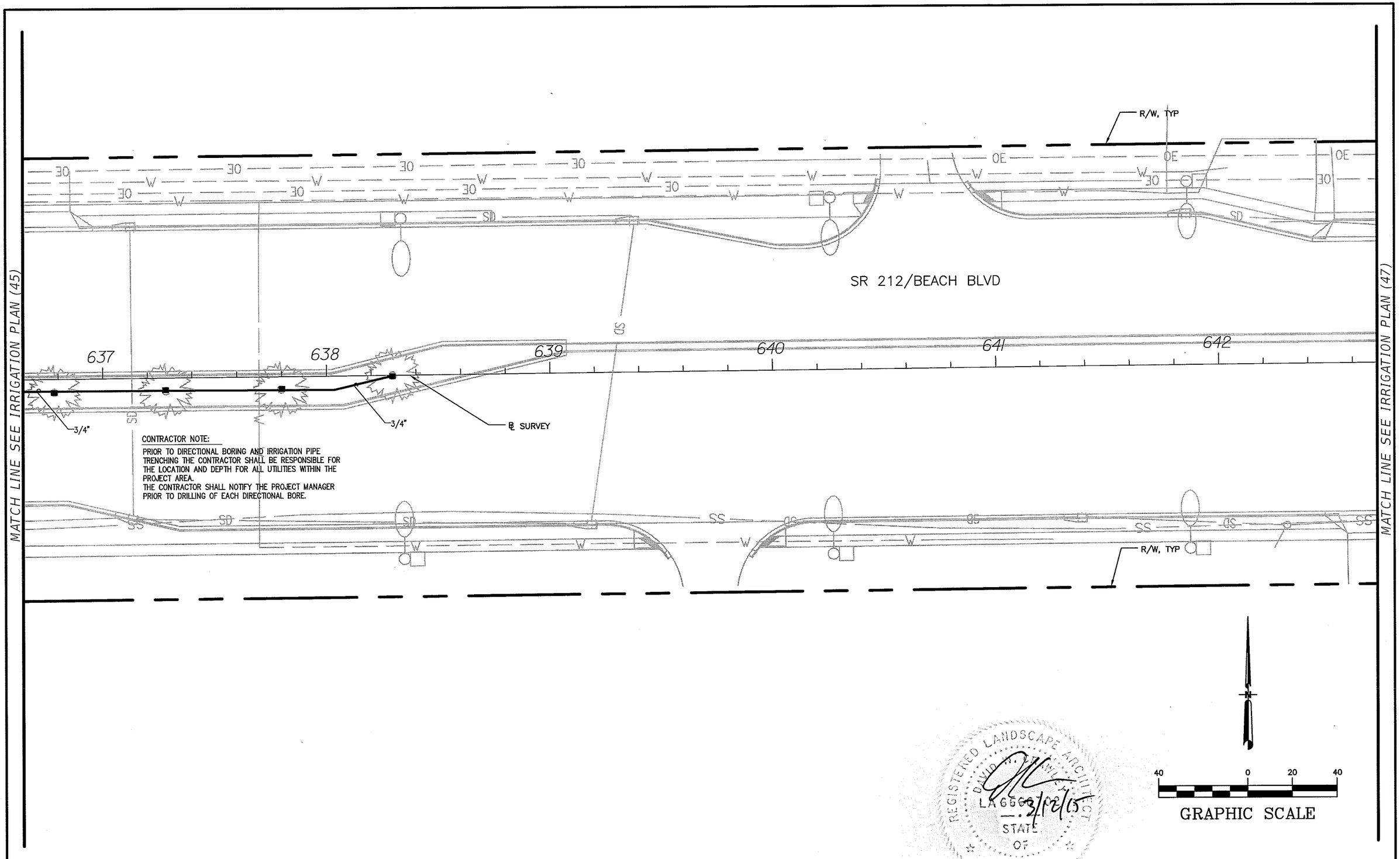
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (45)

SHEET NO.
IR-45

Monday, March 09, 2015 9:03am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR45



CONTRACTOR NOTE:

PRIOR TO DIRECTIONAL BORING AND IRRIGATION PIPE TRENCHING THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND DEPTH FOR ALL UTILITIES WITHIN THE PROJECT AREA.
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REVISIONS			
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URS Corporation Southern
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PLAN (46)

SHEET NO.
IR-46

Monday, March 09, 2015 9:03am S:\Projects\ RDWY\ProiFdot\ProiFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR46

MATCH LINE SEE IRRIGATION PLAN (46)

SAN PABLO RD

SR 212/BEACH BLVD

R/W, TYP

℄ SURVEY

643 644 645 646 647 648

END PROJECT,
STA 645+00

R/W, TYP

SEC 36, T 2 S, R 28 E

SEC 31, T 2 S, R 29 E

40 0 20 40

GRAPHIC SCALE

REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA# 6666207
STATE OF FLORIDA

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

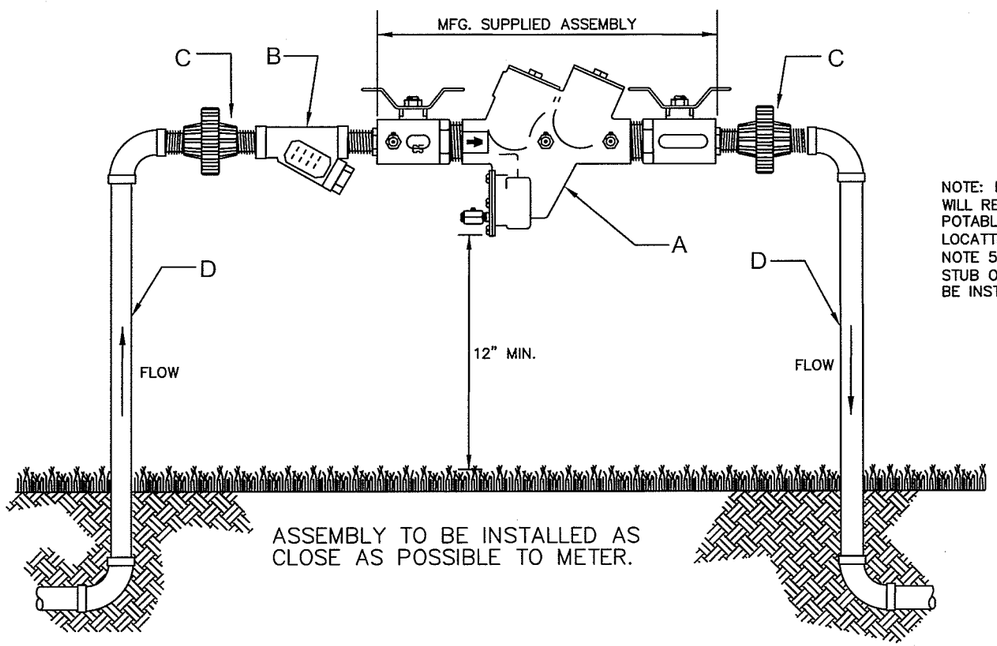
IRRIGATION PLAN (47)

SHEET NO.
IR-47

Monday, March 09, 2015 9:03am S:\Projects\ RDWY\ProjFdot\ProjFDOT\V8\43195515201\landscp\DSGNIR01.dwg PLANIR47

THIS DETAIL CONSTITUTES MINIMUM STANDARDS. CONTRACTOR SHALL PROVIDE AND FOLLOW STANDARDS AS SET BY JEA AND LOCAL CODES.

INSTALLATION IS SHOWN FOR REFERENCE ONLY. BACKFLOW PREVENTOR TYPE SHALL BE PER LOCAL CODE AND INSTALLED BY PERSONNEL WITH A CERTIFIED PLUMBING LICENSE.



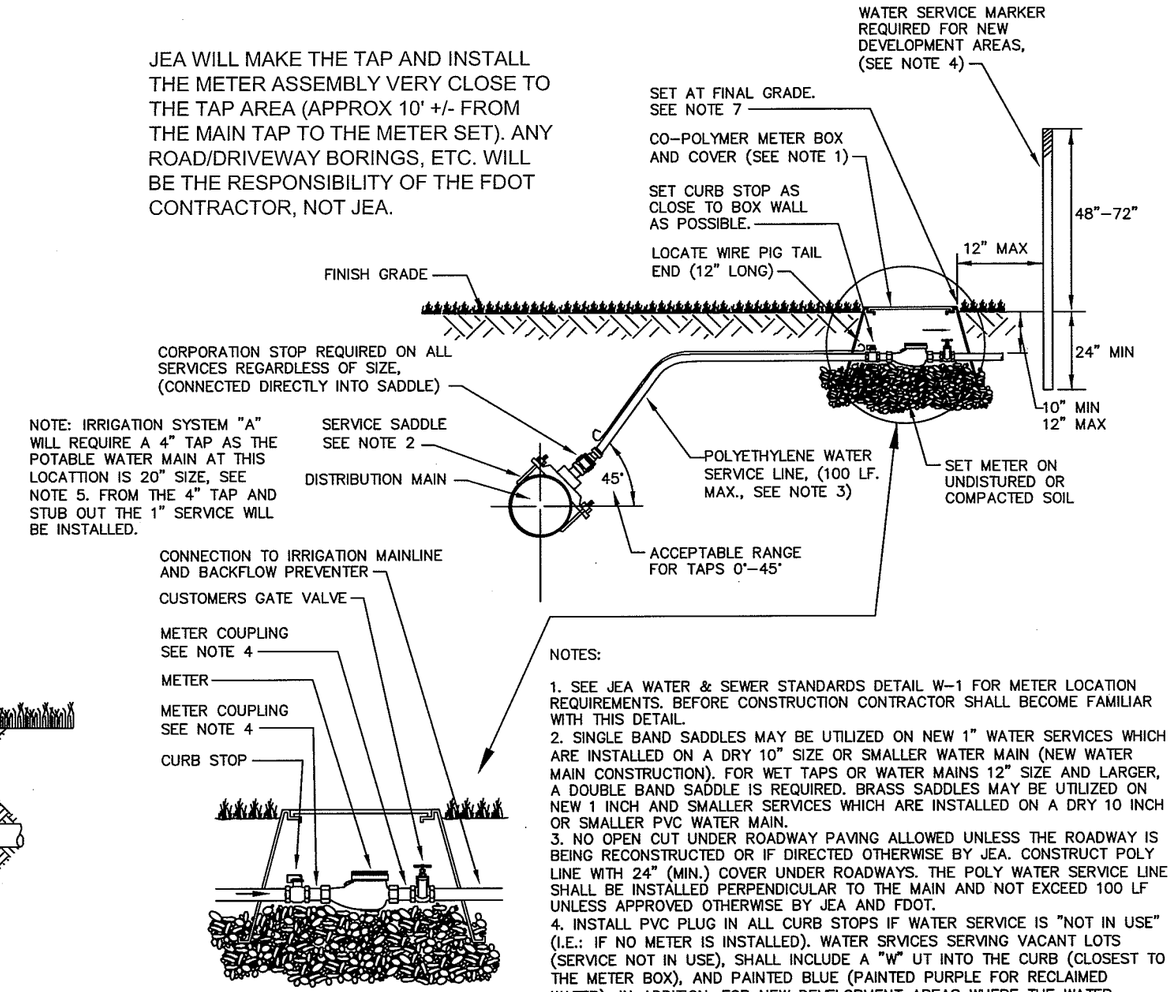
NOTE –TO BE INSTALLED A MINIMUM OF 12" (INCHES) TO A MAXIMUM OF 30" (INCHES) OVER FINAL FINISHED GRADE AS MEASURED TO THE LOWEST POINT OF THE RP ASSEMBLY; AND NO CLOSER THAN 12" (INCHES) TO ANY FIXED STRUCTURE.

–ALL PIPING FOR ASSEMBLY SHALL BE TYPE "K" COPPER OR BRASS
–UNPROTECTED CONNECTIONS ARE PROHIBITED BETWEEN BACKFLOW PREVENTER AND METER.
–ADJUSTABLE PIPE STANDS WHERE REQUIRED.
–BACKFLOW UNIT REQUIRES INITIAL CERTIFICATION BY JEA WATER AND SEWER CC–1 DEPARTMENT
–ALL ABOVE GROUND PIPING INCLUDING ASSEMBLY WILL BE PAINTED RUSTOLEUM FEDERAL SAFETY BLUE, OR PER JEA STANDARDS.

A– REDUCED PRESSURE BACKFLOW PREVENTER – AWWA & USCFCCC&HR APPROVED FOR USE BY JEA WATER AND SEWER CC–1 DEPARTMENT
B – STRAINER, IF APPLICABLE
C – UNIONS
D – SIZES 3/4" TO 2"

3/4" TO 2" REDUCED PRESSURE BACKFLOW ASSEMBLY

JEA WILL MAKE THE TAP AND INSTALL THE METER ASSEMBLY VERY CLOSE TO THE TAP AREA (APPROX 10' +/- FROM THE MAIN TAP TO THE METER SET). ANY ROAD/DRIVEWAY BORINGS, ETC. WILL BE THE RESPONSIBILITY OF THE FDOT CONTRACTOR, NOT JEA.



NOTE: IRRIGATION SYSTEM "A" WILL REQUIRE A 4" TAP AS THE POTABLE WATER MAIN AT THIS LOCATTION IS 20" SIZE, SEE NOTE 5. FROM THE 4" TAP AND STUB OUT THE 1" SERVICE WILL BE INSTALLED.

CONTRACTOR IS RESPONSIBLE FOR CONTACTING JEA FOR SUBMITTAL OF REQUIRED APPLICATIONS AND FEES FOR METER SERVICE INSTALLATION.

METER AND TAP ASSEMBLY INSTALLED BY JEA. METER TO BE INSTALLED IN SAME LOCATION AS TAP.

NOTES:

1. SEE JEA WATER & SEWER STANDARDS DETAIL W–1 FOR METER LOCATION REQUIREMENTS. BEFORE CONSTRUCTION CONTRACTOR SHALL BECOME FAMILIAR WITH THIS DETAIL.
2. SINGLE BAND SADDLES MAY BE UTILIZED ON NEW 1" WATER SERVICES WHICH ARE INSTALLED ON A DRY 10" SIZE OR SMALLER WATER MAIN (NEW WATER MAIN CONSTRUCTION). FOR WET TAPS OR WATER MAINS 12" SIZE AND LARGER, A DOUBLE BAND SADDLE IS REQUIRED. BRASS SADDLES MAY BE UTILIZED ON NEW 1 INCH AND SMALLER SERVICES WHICH ARE INSTALLED ON A DRY 10 INCH OR SMALLER PVC WATER MAIN.
3. NO OPEN CUT UNDER ROADWAY PAVING ALLOWED UNLESS THE ROADWAY IS BEING RECONSTRUCTED OR IF DIRECTED OTHERWISE BY JEA. CONSTRUCT POLY LINE WITH 24" (MIN.) COVER UNDER ROADWAYS. THE POLY WATER SERVICE LINE SHALL BE INSTALLED PERPENDICULAR TO THE MAIN AND NOT EXCEED 100 LF UNLESS APPROVED OTHERWISE BY JEA AND FDOT.
4. INSTALL PVC PLUG IN ALL CURB STOPS IF WATER SERVICE IS "NOT IN USE" (I.E.: IF NO METER IS INSTALLED). WATER SRVICES SERVING VACANT LOTS (SERVICE NOT IN USE), SHALL INCLUDE A "W" UT INTO THE CURB (CLOSEST TO THE METER BOX), AND PAINTED BLUE (PAINTED PURPLE FOR RECLAIMED WATER). IN ADDITION, FOR NEW DEVELOPMENT AREAS WHERE THE WATER SERVICE IS "NOT IN USE" A LANDSCAPE TIMBER OR 3X3 MIN. P.T. POST (TOP PAINTED BLUE OR PURPLE FOR RECLAIMED WATER) OR AN ELECTRONIC LOCATE BALL MARKER (4" DIA BALL) SHALL BE INSTALLED TO MARK THE LOCATION OF THE METER BOX. THE REMOVAL OR TRANSFER OF A WATER SERVICE SHALL INCLUDE BRASS METER COUPLINGS (HEX ON BARREL TYPE).
5. NO 2" AND SMALLER WATER SERVICE TAPS PERMITTED ON WATER MAINS WHICH ARE 20" AND LARGER SIZE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF THE METER OR ELECTRONIC DEVICES IF DAMAGE BY THE CONTRACTOR DURING THE CONSTRUCTION PERIOD.
7. METER BOX AND TOP SHALL BE CLEAR OF ALL DEBRIS TO ALLOW FULL ACCESS TO BOX (I.E.: NO DIRT, TRASH OR OTHER DERIS PLACED ON TOP OF BOX).
8. LOCATE WIRING REQUIRED ON ALL SERVICES 10' OR GREATER IN LENGTH. SEE JEA STANDARD DETAIL W–44

WATER SERVICE DETAIL 2" AND SMALLER METER

THIS DETAIL REFLECTS THE REQUIREMENTS OF THE JEA WATER & SEWER STANDARDS DETAIL W-2.

REGISTERED LANDSCAPE ARCHITECT DAVID W. CRAWLEY STATE OF FLORIDA
3/12/15

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

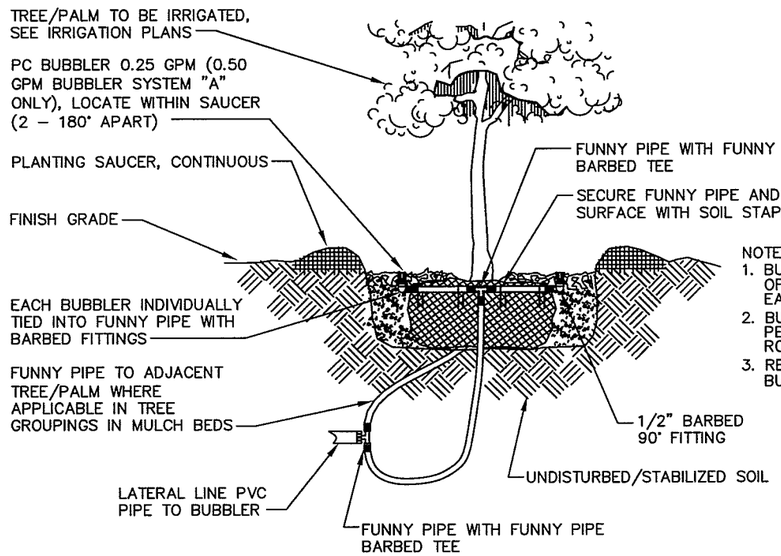
URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION DETAILS (1)

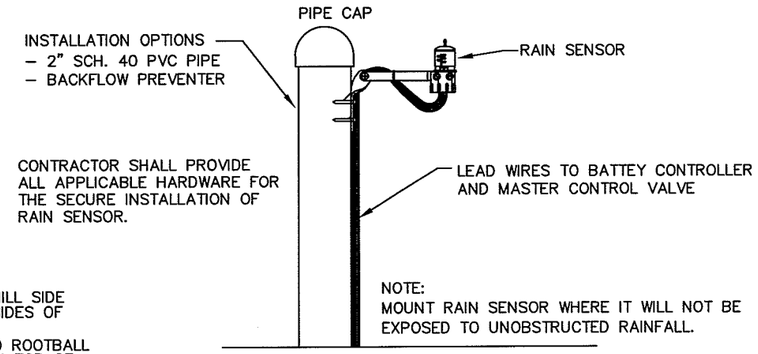
SHEET NO. IR-48



NOTES:
1. BUBBLERS SHALL BE PLACED ON THE UPHILL SIDE OF ANY SLOPES AND ON THE OPPOSING SIDES OF EACH ROOTBALL WITHIN THE SAUCER
2. BUBBLERS TO BE INSTALLED ADJACENT TO ROOTBALL PERIMETER, DO NOT INSTALL BUBBLERS ON TOP OF ROOTBALL OR NEXT TO TRUNK
3. REFER TO PLANS FOR BUBBLER FLOW VOLUME AND BUBBLER QUANTITIES PER TREE OR PALM

FLOOD BUBBLER IRRIGATION FOR TREES AND PALMS

NTS



NOTE:
MOUNT RAIN SENSOR WHERE IT WILL NOT BE EXPOSED TO UNOBSTRUCTED RAINFALL.

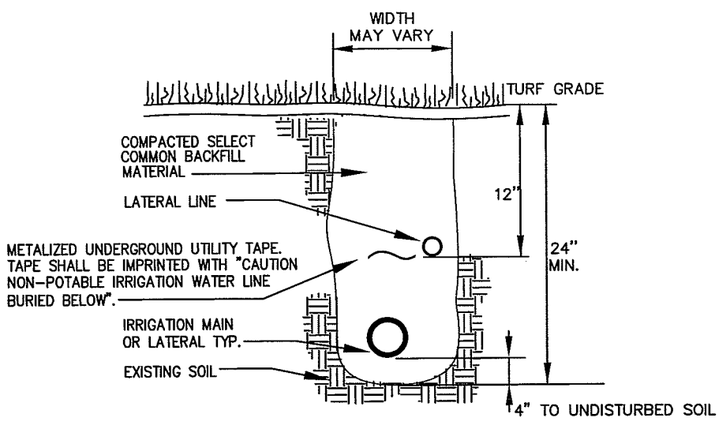
RAIN SENSOR

NTS

PLAN LEGEND:

B1	SINGLE STATION BATTERY CONTROLLER
B2	2–STATION BATTERY CONTROLLER
B4	4–STATION BATTERY CONTROLLER

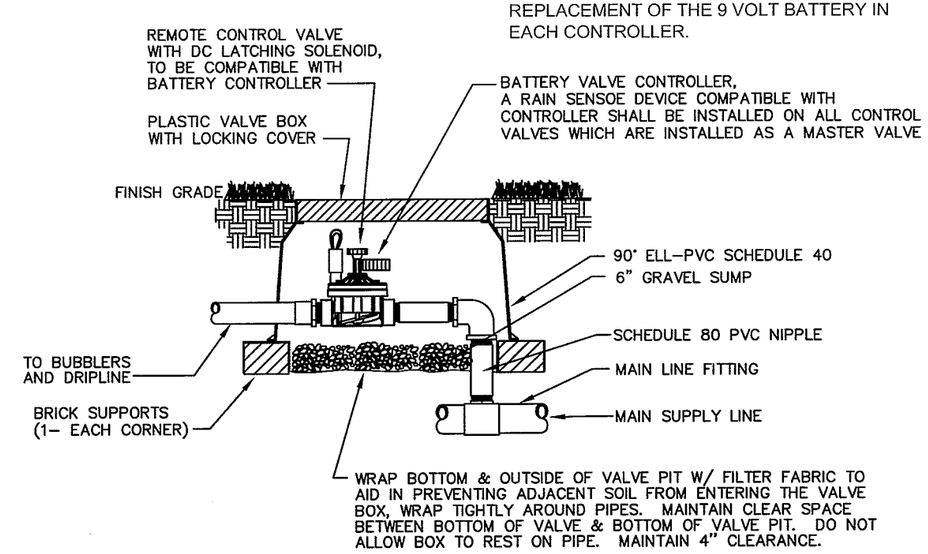
CONTRACTOR IS RESPONSIBLE FOR A FOUR MONTH MAINTENANCE SCHEDULE FOR REPLACEMENT OF THE 9 VOLT BATTERY IN EACH CONTROLLER.



NOTES:
1. DEPTH MEASUREMENTS ARE TO BE DONE FROM FINISH GRADE TO TOP OF PIPE.
2. PROVIDE A 6" MINIMUM VERTICAL SEPARATION BETWEEN MAINLINES AND LATERAL LINES.
3. ALL TRENCHES SHALL BE BACKFILLED WITH CLEAN SOIL FREE OF DEBRIS & NOXIOUS WEEDS. TRENCHES SHALL BE COMPACTED TO A 90% STANDARD PROCTOR DENSITY, ASTMD698–78.

TRENCHING DETAIL

NTS



NOTE: VALVE BOX TO HOUSE TWO CONTROL VALVES WHERE APPLICABLE

BATTERY CONTROLLER AND CONTROL VALVE WITH DC LATCHING SOLENOID

NTS

REGISTERED LANDSCAPE ARCHITECT DAVID W. CRAWLEY LA 6666702 STATE OF FLORIDA 3/12/15

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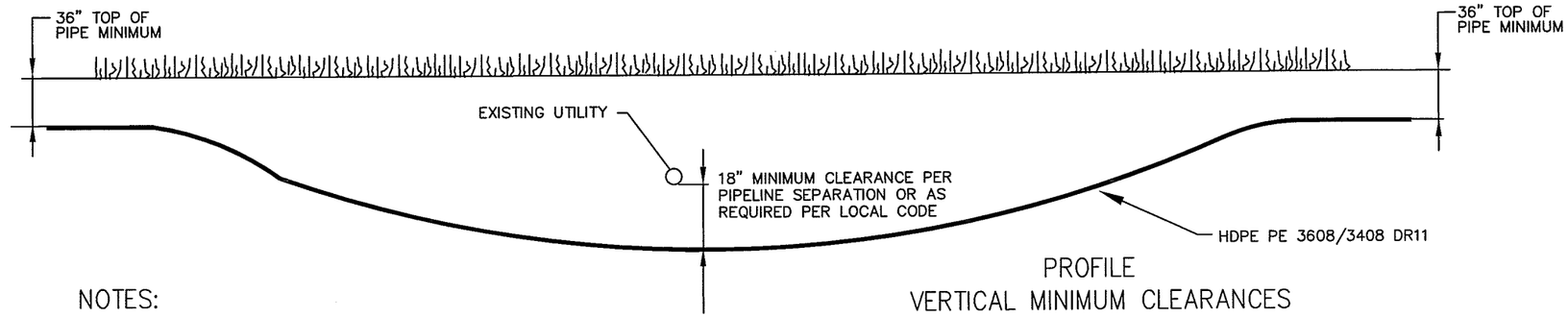
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION DETAILS (2)

SHEET NO.
IR-49



PROFILE
VERTICAL MINIMUM CLEARANCES

TYPICAL HORIZONTAL DIRECTIONAL DRILL

NTS

NOTES:

1. ALL HORIZONTAL DIRECTIONAL DRILLING INSTALLATION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE FLORIDA D.O.T. UTILITY ACCOMMODATIONS MANUAL.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF AFFECTED AGENCIES AND COORDINATION WITH ALL UTILITIES PRIOR TO CONSTRUCTION.
3. ALL CONSTRUCTION MATERIALS, INCLUDING DRILLING FLUID, SHALL BE REMOVED FROM THE SITE PRIOR TO RESTORATION OF DISTURBED AREAS.
4. EXCAVATIONS SHALL BE RESTORED IN ACCORDANCE WITH THE LOCAL UTILITIES STANDARD MANUAL AND STANDARD DETAILS FOR TRENCH RESTORATION.
5. CASING DIAMETER SHALL BE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION.

NOTE:

WHERE IRRIGATION DIRECTIONAL BORE SLEEVES ARE INSTALLED FROM THE RIGHT-OF-WAY TO THE MEDIAN AND FROM A MEDIAN TO A MEDIAN A METAL CURB MARKER SHALL BE INSTALLED WITH FLAT HEAD TAP-CON SCREWS AT BOTH CURBS IDENTIFYING THE LOCATION OF THE INSTALLED SLEEVE.

THE MARKER SHALL INDICATE THE SLEEVE SIZE AND DEPTH TO TOP OF SLEEVE.

THE MARKER SHALL BE STAINLESS STEEL 3" LONG X 1" WIDE X 1/16" THICK

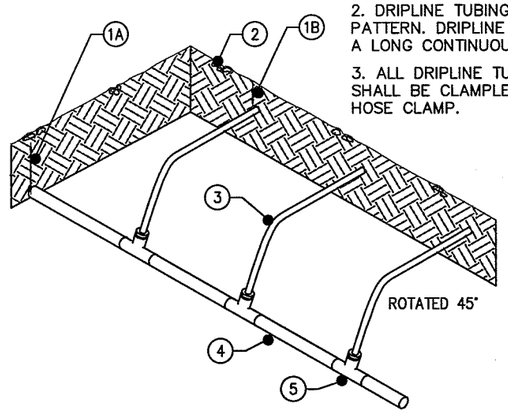
IRRIGATION SLEEVE
4" SIZE
36" DEPTH

CURB SLEEVE MARKER

NTS

NOTE:

1. DRIPLINE TUBING TO BE ROUTED IN THE PLANT MATERIAL BED WITH AT MAXIMUM LATERAL SPACING OF 12 INCHES.
2. DRIPLINE TUBING TO BE INSTALLED IN A GRID PATTERN. DRIPLINE TUBING SHALL NOT BE INSTALLED IN A LONG CONTINUOUS RUN.
3. ALL DRIPLINE TUBING AND FITTING CONNECTIONS SHALL BE CLAMPLED WITH A CRIMP STEEL BAND OR HOSE CLAMP.



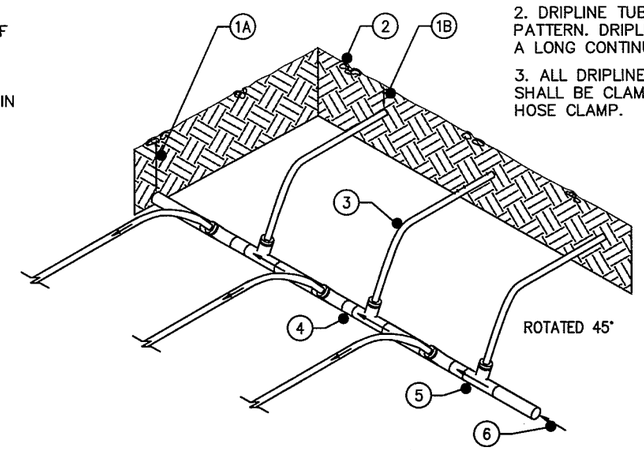
(1A) 6"
(1B) 2"
(2) FINISHED GRADE
(3) DRIPLINE TUBING
(4) PVC SUPPLY/ EXHAUST MANIFOLD
NOTE:
SEE PLAN FOR MANIFOLD PIPE SIZES
(5) PVC TEE TO DRIPLINE TUBING ADAPTER

DRIPLINE TUBING SUPPLY/EXHAUST MANIFOLD

NTS

NOTE:

1. DRIPLINE TUBING TO BE ROUTED IN THE PLANT MATERIAL BED WITH AT MAXIMUM LATERAL SPACING OF 12 INCHES.
2. DRIPLINE TUBING TO BE INSTALLED IN A GRID PATTERN. DRIPLINE TUBING SHALL NOT BE INSTALLED IN A LONG CONTINUOUS RUN.
3. ALL DRIPLINE TUBING AND FITTING CONNECTIONS SHALL BE CLAMPLED WITH A CRIMP STEEL BAND OR HOSE CLAMP.



(1A) 6"
(1B) 2"
(2) FINISHED GRADE
(3) DRIPLINE TUBING
(4) PVC SUPPLY MANIFOLD
NOTE:
SEE PLAN FOR MANIFOLD PIPE SIZES
(5) PVC TEE TO DRIPLINE TUBING ADAPTER
(6) FLOW FROM VALVE

DRIPLINE TUBING CENTER FEED SUPPLY MANIFOLD

NTS

REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 6666207
STATE OF FLORIDA
3/12/15

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Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION DETAILS (3)

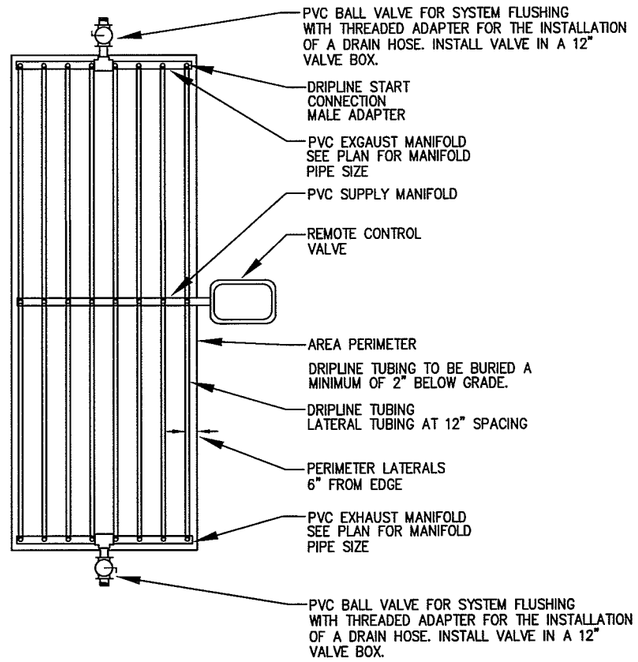
SHEET NO.
IR-50

NOTE:

1. DRIPLINE TUBING TO BE ROUTED IN THE PLANT MATERIAL BED WITH AT MAXIMUM LATERAL SPACING OF 12 INCHES.

2. DRIPLINE TUBING TO BE INSTALLED IN A GRID PATTERN. DRIPLINE TUBING SHALL NOT BE INSTALLED IN A LONG CONTINUOUS RUN.

3. ALL DRIPLINE TUBING AND FITTING CONNECTIONS SHALL BE CLAMPLED WITH A CRIMP STEEL BAND OR HOSE CLAMP.



CENTER FEED LAYOUT

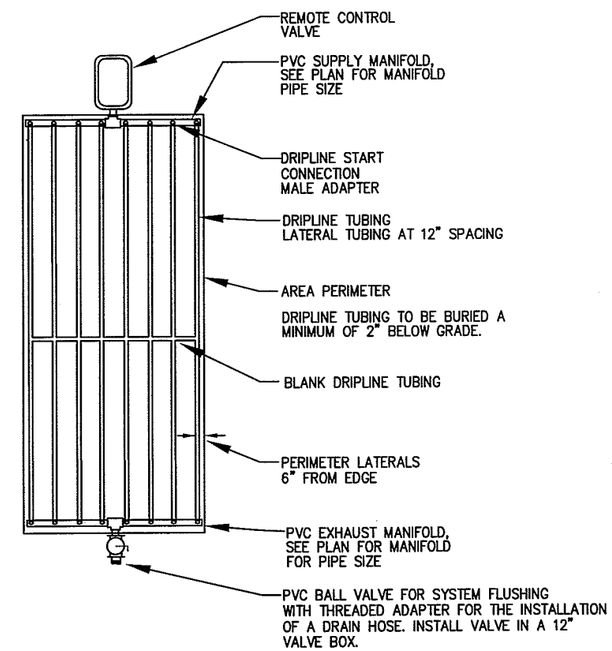
NTS

NOTE:

1. DRIPLINE TUBING TO BE ROUTED IN THE PLANT MATERIAL BED WITH AT MAXIMUM LATERAL SPACING OF 12 INCHES.

2. DRIPLINE TUBING TO BE INSTALLED IN A GRID PATTERN. DRIPLINE TUBING SHALL NOT BE INSTALLED IN A LONG CONTINUOUS RUN.

3. ALL DRIPLINE TUBING AND FITTING CONNECTIONS SHALL BE CLAMPLED WITH A CRIMP STEEL BAND OR HOSE CLAMP.



END FEED LAYOUT

NTS

REVISIONS			
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION DETAILS (4)

SHEET NO.
IR-51

IRRIGATION PROGRAM AND RUN TIMES

SYSTEM "A" PROGRAM SCHEDULE

IRRIGATION VALVES	ZONE GPM	DAILY RUN TIME	START TIME	END TIME
A1 BUBBLERS	4.0	10 MIN'S	12:00 AM	12:10 AM

NOTE: SYSTEM "A" IS THE ONLY SYSTEM THAT UTILIZES 0.50 BUBBLERS. THE RUN TIME FOR THIS SYSTEM IS ONE-HALF OF THE OTHER SYSTEMS.

SYSTEM "B" PROGRAM SCHEDULE

IRRIGATION VALVES	ZONE GPM	DAILY RUN TIME	START TIME	END TIME
MASTER			11:50 PM	1:30 AM
B1 BUBBLERS	26.0	20 MIN'S	12:00 AM	12:20 AM
B2 DRIP	15.6	20 MIN'S	12:30 AM	12:50 AM
B3 DRIP	15.6	20 MIN'S	1:00 AM	1:20 AM

SYSTEM "C" PROGRAM SCHEDULE

IRRIGATION VALVES	ZONE GPM	DAILY RUN TIME	START TIME	END TIME
MASTER			11:50 PM	1:30 AM
C1 DRIP	18.1	20 MIN'S	12:00 AM	12:20 AM
C2 BUBBLER	28.0	20 MIN'S	12:30 AM	12:50 AM
C3 DRIP	20.8	20 MIN'S	1:00 AM	1:20 AM

SYSTEM "D" PROGRAM SCHEDULE

IRRIGATION VALVES	ZONE GPM	DAILY RUN TIME	START TIME	END TIME
MASTER			11:50 PM	1:30 AM
D1 BUBBLER	29.0	20 MIN'S	12:00 AM	12:20 AM
D2 DRIP	18.9	20 MIN'S	12:30 AM	12:50 AM
D3 DRIP	18.4	20 MIN'S	1:00 AM	1:20 AM

SYSTEM "E" PROGRAM SCHEDULE

IRRIGATION VALVES	ZONE GPM	DAILY RUN TIME	START TIME	END TIME
MASTER			9:50 PM	7:00 AM
E1 DRIP	18.8	20 MIN'S	10:00 PM	10:20 PM
E2 BUBBLER	20.0	20 MIN'S	10:30 PM	10:50 PM
E3 DRIP	20.0	20 MIN'S	11:00 PM	11:20 PM
E4 BUBBLER	16.0	20 MIN'S	11:30 PM	11:50 PM
E5 DRIP	19.7	20 MIN'S	12:00 AM	12:20 AM
E6 DRIP	24.5	20 MIN'S	12:30 AM	12:50 AM
E7 DRIP	24.5	20 MIN'S	1:00 AM	1:20 AM
E8 BUBBLER	21.0	20 MIN'S	1:30 AM	1:50 AM
E9 BUBBLER	22.5	20 MIN'S	2:00 AM	2:20 AM
E10 DRIP	24.5	20 MIN'S	2:30 AM	2:50 AM
E11 DRIP	24.5	20 MIN'S	3:00 AM	3:20 AM
E12 DRIP	19.8	20 MIN'S	3:30 AM	3:50 AM
E13 DRIP	16.0	20 MIN'S	4:00 AM	4:20 AM
E14 DRIP	23.5	20 MIN'S	4:30 AM	4:50 AM
E15 DRIP	23.5	20 MIN'S	5:00 AM	5:20 AM
E16 BUBBLER	17.5	20 MIN'S	5:30 AM	5:50 AM
E17 BUBBLER	14.0	20 MIN'S	6:00 AM	6:20 AM
E18 DRIP	17.9	20 MIN'S	6:30 AM	6:50 AM

SYSTEM "F" PROGRAM SCHEDULE

IRRIGATION VALVES	ZONE GPM	DAILY RUN TIME	START TIME	END TIME
MASTER			11:50 PM	1:30 AM
F1 DRIP	16.1	20 MIN'S	12:00 AM	12:20 AM
F2 BUBBLER	26.0	20 MIN'S	12:30 AM	12:50 AM
F3 DRIP	15.5	20 MIN'S	1:00 AM	1:20 AM

SYSTEM "G" PROGRAM SCHEDULE

IRRIGATION VALVES	ZONE GPM	DAILY RUN TIME	START TIME	END TIME
MASTER			11:50 PM	1:00 AM
G1 BUBBLER	22.0	20 MIN'S	12:00 AM	12:20 AM
G2 DRIP	29.9	20 MIN'S	12:30 AM	12:50 AM

IRRIGATION PROGRAMS AND RUN TIMES ARE BASED ON IRRIGATION SPECIFICATIONS FOR TREE ESTABLISHMENT AS OUTLINED IN THE "TYPICAL TREE BID SPECIFICATIONS FOR FLORIDA" MANUAL DEVELOPED BY THE FLORIDA URBAN FORESTRY COUNCIL.

PER THE IRRIGATION SPECIFICATION FOR ESTABLISHMENT GUIDELINES TREES ARE TO RECEIVE 2-3 GALLONS OF WATER PER INCH OF TREE CALIPER TO THE ROOT BALL.

THE PROJECT INCORPORATES 3 1/2", 4" AND 5" CALIPER TREES. PALMS WILL FOLLOW THE 4" GUIDELINES.

CALCULATIONS FOR RUN TIMES:
3 1/2" CALIPER TREE AT 2-3 GALLONS EQUALS 7 TO 10.5 GALLONS PER IRRIGATION CYCLE

4" CALIPER TREE AT 2-3 GALLONS EQUALS 8 TO 12 GALLONS PER IRRIGATION CYCLE

5" CALIPER TREE AT 2-3 GALLONS EQUALS 10 TO 15 GALLONS PER IRRIGATION CYCLE

RUN TIMES BUBBLER ZONES

3 1/2" CALIPER TREE: (2) 0.25 GPM BUBBLERS = 0.5 GPM
0.5 GPM X 20 MINUTES RUN TIME = 10 GALLONS
THIS IS WITHIN THE 7-10.5 GALLON PER IRRIGATION CYCLE RANGE

4" CALIPER TREE: (2) 0.25 GPM BUBBLERS = 0.5 GPM
0.5 GPM X 20 MINUTES RUN TIME = 10 GALLONS
THIS IS WITHIN THE 8-12 GALLON PER IRRIGATION CYCLE RANGE

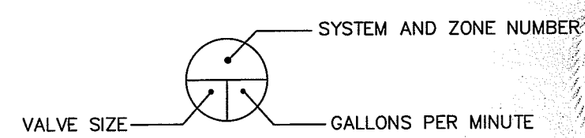
5" CALIPER TREE: (2) 0.25 GPM BUBBLERS = 0.5 GPM
0.5 GPM X 20 MINUTES RUN TIME = 10 GALLONS
THIS IS WITHIN THE 10-15 GALLON PER IRRIGATION CYCLE RANGE

CONTRACTOR MAY DESIRE TO ADJUST RUN TIMES BASED ON ON-SITE CONDITIONS.

PROGRAMMING:
PER THE TREE ESTABLISHMENT GUIDELINES THE IRRIGATION CONTROLLERS ARE RECOMMENDED TO RUN DAILY FOR (1) MONTH. THEN EVERY OTHER DAY FOR THREE MONTHS. TO MAINTAIN A VIGOR TREE ESTABLISHEMENT THE CONTROLLERS SHOULD BE PROGRAMMED TO RUN WEEKLY UNTIL ESTABLISHED.

DRIP ZONE RUN TIMES ARE BASED ON A THREE DAY PER WEEK IRRIGATION APPLICATION.

NOTE:
CONTRACTOR TO SUBMIT PROPOSED CHANGES TO PROGRAM SCHEDULES AND RUN TIME TO ENGINEER FOR APPROVAL.



REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 0666702
3/12/15
DATE
STATE OF FLORIDA

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION PROGRAM SCHEDULE AND RUN TIMES

SHEET NO. IR-52

IRRIGATION MATERIALS LIST

DESCRIPTION	UNIT	SYS "A"	SYS "B"	SYS "C"	SYS "D"	SYS "E"	SYS "F"	SYS "G"	TOTAL
3/4" POTABLE WATER METER, SERVICE TAP, AND SERVICE LINE BY JEA. CONTRACTOR TO COORDINATE METER APPLICATION, INSTALLATION AND RESPONSIBLE FOR ALL METER FEES	EA.	1							1
1" POTABLE WATER METER, SERVICE TAP, AND SERVICE LINE BY JEA. CONTRACTOR TO COORDINATE METER APPLICATION, INSTALLATION AND RESPONSIBLE FOR ALL METER FEES	EA.		1	1	1	1	1	1	6
3/4" BACKFLOW PREVENTER AND PIPE ASSEMBLY PER LOCAL CODE	EA.	1							1
1 1/2" BACKFLOW PREVENTER AND PIPE ASSEMBLY PER LOCAL CODE	EA.		1	1	1	1	1	1	6
SINGLE STATION BATTERY CONTROLLER	EA.	1	2	1	2	4	1	1	12
TWO STATION BATTERY CONTROLLER	EA.		1		1	6		1	9
FOUR STATION BATTERY CONTROLLER	EA.			1		1	1		3
RAIN SENSOR	EA.	1	1	1	1	1	1	1	7
1" ELECTRIC CONTROL VALVE WITH DC LATCHING SOLENOID WITH VALVE BOX	EA.	1	2	2	2	10	2		19
1 1/2" ELECTRIC CONTROL VALVE WITH DC LATCHING SOLENOID WITH VALVE BOX	EA.		2	2	2	9	2	3	20
0.25 GPM PC FLOOD BUBBLER W/ 1/2" K-FLEX PIPE @ 5' LONG	EA.		104	112	116	444	104	88	970
0.50 GPM PC FLOOD BUBBLER W/ 1/2" K-FLEX PIPE @ 5' LONG	EA.	8							8
2" PVC CL 200 MAINLINE, SOLVENT WELD	LF.		1,095	105	300	4,045	100	115	5,760
3/4" PVC CL 200 MAINLINE, SOLVENT WELD	LF.	5							5
2" PVC CL 200 LATERAL LINE, SOLVENT WELD	LF.		10	5	165		5	5	190
1 1/2" PVC CL 200 LATERAL LINE, SOLVENT WELD	LF.		815	600	590	1,705		5	3,715
1 1/4" PVC CL 200 LATERAL LINE, SOLVENT WELD	LF.		190	470	405	1,605	920	620	4,210
1" PVC CL 200 LATERAL LINE, SOLVENT WELD	LF.		110	200	540	1,635	220	320	3,025
3/4" PVC CL 200 LATERAL LINE, SOLVENT WELD	LF.	185	1,265	1,230	1,125	4,010	1,355	1,340	10,510
DRIPLINE TUBING 0.9 GPH EMITTERS 12" ON-CENTER @ 12" LATERAL SPACING, WITH SOIL STAKES, AND FLUSH VALVES	LF.		2,080	2,588	2,481	17,131	2,105	1,985	28,370
6" HDPE PE 3608/3408 IPS DR 11 DIRECTIONAL BORE SLEEVE	LF.				100	105			205
4" HDPE PE 3608/3408 IPS DR 11 DIRECTIONAL BORE SLEEVE	LF.		360	70	60	555	60	80	1,185
2" HDPE PE 3608/3408 IPS DR 11 DIRECTIONAL BORE SLEEVE	LF.	80		215	200	1,100	100	330	2,025

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3/12/15

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
C.A. No. LCC 000234
DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION MATERIAL LIST

SHEET NO.
IR-53

IRRIGATION NOTES

1) VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. MAINLINE SHALL NOT BE LOCATED WITHOUT PRIOR APPROVAL OF THE PROJECT ENGINEER. ALL UTILITIES AND STRUCTURES MAY NOT BE SHOWN ON THESE PLANS–CONTRACTOR SHALL VERIFY.

2) ALL PRESSURE MAINLINES UNDER ROADWAY PAVEMENT SHALL BE WITHIN HDPE DIRECTIONAL BORE SLEEVES AS NOTED.

3) MAINLINE AND VALVES ARE SHOWN IN SCHEMATIC FORM. LOCATE AS NOTED ON PLANS.

4) LOCATE ALL VALVES A MINIMUM OF 24" FROM BACK OF CURBS OR EDGE OF SIDEWALKS, UNLESS NOTED OTHERWISE.

5) ALL SLEEVES UTILIZED BY THE IRRIGATION CONTRACTOR, WHETHER INSTALLED BY HIM OR NOT, SHALL BE LOCATED ON THE RECORD DRAWINGS. THE DEPTH BELOW FINISH GRADE, TO THE NEAREST FOOT OF EACH END OF EACH SLEEVE SHALL BE NOTED AT EACH SLEEVE LOCATION ON THE RECORD DRAWINGS.

6) ALL UNSIZED PIPE SHALL BE 3/4" UNLESS OTHERWISE NOTED.

7) ALL VALVES SHALL BE INSTALLED IN A HIGH DENSITY PLASTIC VALVE BOX WITH A LOCKING LID.

8) CONTRACTOR SHALL SECURE ANY AND ALL NECESSARY PERMITS FOR THE WORK PRIOR TO COMMENCEMENT OF HIS OPERATIONS ON–SITE. COPIES OF THE PERMITS SHALL BE SENT TO THE PROJECT ENGINEER AND FDOT REPRESENTATIVE. ALL WORK WITHIN THE R.O.W. SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF FDOT AND THE CITY OF JACKSONVILLE.

9) CONTRACTOR SHALL BE RESPONSIBLE FOR JEA WATER METER INSTALLATION FEES, JEA MONTHLY SERVICE AND JEA MONTHLY WATER USE CHARGES.

10) CONTRACTOR SHALL VERIFY ALL POINT OF CONNECTIONS AT PROJECT SITE WITH PROJECT ENGINEER.

11) INSTALLATION OF ALL IRRIGATION WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY COMPLETION OF ALL WORK ON THE SITE.

12) CONTRACTOR SHALL MAINTAIN ALL IRRIGATION SYSTEMS IN A SAFE AND OPERATIONAL CONDITION DURING CONSTRUCTION AND THROUGHOUT THE CONTRACT AND ESTABLISHMENT PERIOD.

13) CONTRACTOR SHALL KEEP A DAILY AND ACCURATE RECORDING OF WORK PREFORMED AND MAKE AVAILABLE ALL RECORD DRAWINGS FOR REVIEW BY THE ENGINEER UPON REQUEST. THE CONTRACTOR SHALL PROVIDE RECORD DRAWINGS TO THE ENGINEER AT PROJECT COMPLETION.

14) CONTRACTOR SHALL REPLACE BATTERIES FOR CONTROLLERS ON A SEMI–ANNUALLY SCHEDULE OR SOONER AS BATTERY LIFE DICTATES.

IRRIGATION SYSTEM REMOVAL NOTES

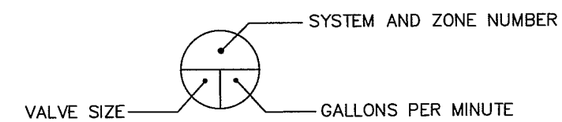
1) AT THE END OF THE CONTRACT PERIOD IRRIGATION SYSTEM COMPONENTS AS NOTED SHALL BE REMOVED FROM THE PROJECT SITE. IRRIGATION COMPONENTS TO BE REMOVED SHALL INCLUDE: POTABLE WATER METERS, REMOVAL OF POTABLE WATER BACKFLOW PREVENTERS, BATTERY CONTROLLERS AND CONTROL VALVES. BACKFLOW PREVENTERS SHALL BE REMOVED BY A CERTIFIED LICENSED PLUMBER. THE CONTRACTOR SHALL NOTIFY JEA WATER AND SEWER DEPARTMENT FOR TERMINATION OF POTABLE WATER METER SERVICE.

2) AFTER REMOVAL OF SYSTEM COMPONENTS AS NOTED ABOVE THE IRRIGATION MAINLINE FOR EACH SYSTEM SHALL BE CUT AND CAPPED JUST UPSTREAM OF THE IRRIGATION MASTER VALVE. THE CAPPED MAINLINE SHALL BE LOCATED IN THE VALVE BOX WITH THE MASTER VALVE.

3) AFTER REMOVAL OF SYSTEM COMPONENTS AS NOTED ABOVE THE CONTRACTOR SHALL RESTORE ALL PLANT BEDS AND TURF AREAS. CONTACT THE PROJECT ENGINEER AND THE FDOT REPRESENTATIVE A MINIMIUM OF 48 HOURS FOR FINAL ACCEPTANCE.

IRRIGATION LEGEND

- ■ PRESSURE COMPENSATING FLOOD BUBBLER, 0.25 GPM (2 PER TREE/PALM WHERE SHOWN ON PLAN)
- ▲ PRESSURE COMPENSATING FLOOD BUBBLER, 0.50 GPM (2 PER TREE/PALM WHERE SHOWN ON PLAN) NOTE: 0.50 GPM BUBBLERS FOR SYSTEM "A" ONLY
- B1 SINGLE STATION BATTERY CONTROLLER
- B2 2 STATION BATTERY CONTROLLER
- B4 4 STATION BATTERY CONTROLLER
- Ⓡ RAIN SENSOR
- ◕ ELECTRIC CONTROL VALVE WITH DC LATCHING SOLENOID
- M POTABLE WATER METER SERVICE INSTALLED BY JEA
- BF POTABLE WATER BACKFLOW PREVENTER PER LOCAL CODE
- CLASS 200 PVC MAINLINE, SOLVENT WELD
- CLASS 200 PVC LATERAL LINE, SOLVENT WELD
- DRIPLINE TUBING WITH 0.9 GPH EMITTER
- HDPE DIRECTIONAL BORE SLEEVE INSTALLED PER FDOT UTILITY STANDARDS



REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 6666702
STATE OF FLORIDA
3/12/15

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

IRRIGATION NOTES AND LEGEND

SHEET NO.
IR-54

1.0 SITE DESCRIPTION:

1.A. NATURE OF CONSTRUCTION ACTIVITY:

THE PROJECT CONSISTS OF THE INSTALLATION OF LANDSCAPING ALONG SR 212 (BEACH BOULEVARD) IN JACKSONVILLE. THIS INVOLVES INSTALLING TREES, PALMS, ORNAMENTAL GRASSES AND SOIL REPLACEMENT WITHIN THE RIGHTS-OF-WAY. THE PROJECT EXTENDS FROM ST. JOHNS BLUFF ROAD ALONG SR 212 (BEACH BOULEVARD) TO SAN PABLO ROAD.

1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

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

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS BEFORE CLEARING AND GRUBBING. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

1. SPRAY THE PLANTING AREAS WITH HERBICIDE.

2. MOW ('SCALP') THE PLANTING AREAS TO THE SURFACE OF THE GROUND.

3. RAKE THE PLANTING AREAS.

4. INSTALL TREE, SHRUB, AND SOD PLANTINGS.

1.C. AREA ESTIMATES:

TOTAL SITE AREA: 5.89 ACRES.
TOTAL AREA TO BE DISTURBED: 5.89 ACRES.

1.D. RUNOFF DATA:

RUNOFF COEFFICIENTS: NO CHANGE BETWEEN BEFORE AND AFTER CONSTRUCTION.

1.E. SITE MAP:

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

* AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE LANDSCAPE PLAN SHEETS.

* LOCATIONS OF TEMPORARY CONTROLS: THE AREAS ARE DESCRIBED IN THE DESIGN STANDARDS. SPECIFIC LOCATIONS WILL BE BASED UPON THE CONTRACTOR'S ACTIVITIES AND SHALL BE PLACED IN A MANNER TO PROTECT THE RECEIVING WATERS.

* AREAS TO BE STABILIZED: TEMPORARY STABILIZATION PRACTICES ARE SHOWN IN THE SAME LOCATION AS THE TEMPORARY CONTROLS MENTIONED ABOVE.

2.0 CONTROLS:

2.A. EROSION AND SEDIMENT CONTROLS:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES BASED ON THE CONTRACTOR'S PROPOSED TRAFFIC CONTROL PLAN. THE FOLLOWING RECOMMENDED GUIDELINES ARE BASED ON THE TRAFFIC CONTROL PLAN (TCP) OUTLINED IN THE CONSTRUCTION PLANS. WHERE FOLLOWING THE TRAFFIC CONTROL PLAN (TCP) OUTLINED IN THESE CONSTRUCTION PLANS, THE CONTRACTOR MAY CHOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN THE SECTION 104 EROSION CONTROL PLAN, SUBJECT TO APPROVAL OF THE ENGINEER. AS WORK PROGRESSES, THE CONTRACTOR SHALL MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATION, CHANGES IN CONSTRUCTION ACTIVITIES, AND THE NEED FOR BETTER PRACTICES.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED. PHASE I OF TRAFFIC CONTROL PLANS.

INSTALL ALL EROSION CONTROL DEVICES.

PERFORM ALL NECESSARY SITE CLEARING, LANDSCAPE INSTALLATION AND WATERING.

PHASE II OF THE TRAFFIC CONTROL PLAN:

REMOVE ALL EROSION CONTROL DEVICES.

2.A.1 STABILIZATION PRACTICES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TEMPORARY:

* ARTIFICIAL COVERINGS IN ACCORDANCE WITH SPECIFICATION SECTION 104.

* SOD IN ACCORDANCE WITH SPECIFICATION SECTION 104.

* TEMPORARY SOIL STABILIZATION - AS AN ADDITIONAL EROSION CONTROL MEASURE, CHEMICAL ADHESIVE STABILIZER (POLYACRYLAMIDE) CAN BE USED WHERE SOIL RUNOFF WILL DRAIN TO WETLANDS OR SURFACE WATERS. SUCH USAGE SHALL BE LIMITED TO AREAS WHERE VEHICLE TRAFFIC AND OTHER DISTURBANCES WILL NOT OCCUR FOR MORE THAN 7 DAYS. POLYACRYLAMIDE CAN BE APPLIED TO EXPOSED SOILS PRIOR TO PLACEMENT OF ARTIFICIAL COVERINGS AND ROLLED EROSION CONTROL PRODUCTS. POLYACRYLAMIDE SHALL BE USED TO STABILIZE SOIL STOCKPILES WHEN THE STOCKPILE WILL REMAIN UNDISTURBED FOR MORE THAN 7 DAYS. POLYACRYLAMIDE SHALL BE USED IN ACCORDANCE WITH THE MANUFACTURE'S RECOMMENDATIONS.

PERMANENT:

* SOD IN ACCORDANCE WITH SPECIFICATION SECTION 981.

2.A.2 STRUCTURAL PRACTICES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. 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:

* SILT FENCE SHALL BE USED WHERE THE EXISTING GROUND SLOPES AWAY FROM THE R/W OR WHERE THERE IS POTENTIAL FOR SEDIMENT TO BE DIRECTED OFF-SITE. STOCKPILE AREAS SHALL INCLUDE SILT FENCE AROUND THE PERIMETER. ALL SILT FENCE SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 104.

* STAKED TURBIDITY BARRIERS

* SOIL TRACKING PREVENTION DEVICES AT CONSTRUCTION ENTRANCES/EXITS

* FLOATING TURBIDITY BARRIERS: FLOATING TURBIDITY BARRIERS SHALL BE INSTALLED TO CONTAIN SILTATION FROM CONSTRUCTION ACTIVITIES INTO ADYACENT WATERS.

* SEDIMENT BARRIER INCLUDES SYNTHETIC BALES, SILT FENCE AND OTHER SIMILAR ITEMS IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 104.

* SANDBAGS TO CONTROL EROSION AND TRAP SILT.

* INLET PROTECTION SYSTEMS IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 104.

* SEDIMENT BASIN/CONTAINMENT SYSTEMS - AS NECESSARY TO CONFORM WITH THE FDEP NPDES PERMIT.

PERMANENT:

* SOD.

2.B STORMWATER MANAGEMENT:

NO STORMWATER SYSTEM WILL BE CONSTRUCTED.

2.C OTHER CONTROLS:

2.C.1 WASTE DISPOSAL:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO 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 DURING CONSTRUCTION ACTIVITIES.

* DISPOSING OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S 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.

REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA 6666702
STATE OF FLORIDA
3/12/15

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DAVID W. CRAWLEY, RLA LA# 6666207

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

STORMWATER POLLUTION PREVENTION NOTES (1)

SHEET NO.
S-01

2.C.2 OFFSITE VEHICLE TRACKING & DUST CONTROL:

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

* COVERING LOADED HAUL TRUCKS WITH TARPAULINS.

* REMOVING EXCESS DIRT FROM ROADS DAILY.

* STABILIZING CONSTRUCTION ENTRANCES ACCORDING TO EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, LATEST EDITION.

* USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.

2.C.3 STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.

2.C.4 FERTILIZERS:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS. THE PROPOSED PROCEDURES SHALL COMPLY WITH APPLICABLE SUBSECTIONS OF EITHER SECTION 981 OR 982 OF THE SPECIFICATIONS.

2.C.5 TOXIC SUBSTANCES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE 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.

2.D.4 APPROVED STATE AND LOCAL PLANS AND PERMITS:

NO PERMITS ARE REQUIRED FOR THIS PROJECT.

3.0 MAINTENANCE:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL AT A MINIMUM, COMPLY WITH THE FOLLOWING.

* SEDIMENT BARRIER - SILT FENCE: MAINTAIN PER SECTION 104. THE CONTRACTOR SHOULD ANTICIPATE REPLACING SILT FENCE ON 12-MONTH INTERVALS.

* SEDIMENT BARRIER - SYNTHETIC BALES: REMOVE SEDIMENT WHEN IT REACHES 1/3 THE HEIGHT OF SEDIMENT BARRIER OR WHEN WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS. REPLACE WHEN APPROPRIATE.

* SEDIMENT CONTAINMENT SYSTEM CLEAN OUT SHALL INCLUDE REMOVAL OF SEDIMENT.

* STAKED TURBIDITY BARRIERS WILL BE MAINTAINED WITH RESPECT TO DEPTH OF SEDIMENT AND ENSURE THAT THE FABRIC IS ATTACHED SECURELY TO THE FLOATS/STAKES AND ANCHORED PROPERLY AT THE BOTTOM FOR PROPER SEDIMENT CONTROL.

REGISTERED LANDSCAPE ARCHITECT
DAVID W. CRAWLEY
LA#6666702
STATE OF FLORIDA
3/02/15

4.0 INSPECTIONS:

CONTRACTOR'S 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 0.5 INCHES OR GREATER AND SUBMIT THE FORM TO THE ENGINEER. 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 UNITED STATES.

* POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM SEWER 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.

* SEDIMENTATION FACILITIES.

* 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 INSPECTIONS INDICATE THAT THE 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.

THE CONTRACTOR SHALL SUBMIT A WEEKLY REPORT TO THE ENGINEER DOCUMENTING THE DAILY INSPECTIONS AND MAINTENANCE OR REPAIRS TO THE CONTROL DEVICES.

5.0 NON-STORMWATER DISCHARGES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). 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 FDOT D2 DISTRICT CONTAMINATION IMPACT COORDINATOR (DCIC).

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL DEWATERING PERMITS.

6.0 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT:

THE CONTRACTOR IS REQUIRED TO COMPLETE, SIGN AND FILE NOTICE OF INTENT AS AN OPERATOR FOR THE PERMIT.

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 212	DUVAL	431955-1-52-01

STORMWATER POLLUTION PREVENTION NOTES (2)

SHEET NO.
S-02

NOTES:

1. THE EXISTING POSTED SPEED LIMIT IS 45 MPH AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

2. DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN THE SAME NUMBER OF LANES ON ALL ROADWAYS AS EXISTS PRIOR TO CONSTRUCTION. THE ONLY EXCEPTIONS ARE AS NOTED.

3. TEMPORARY TRAVEL LANES SHALL BE 12 FEET IN WIDTH UNLESS OTHERWISE NOTED ON TRAFFIC CONTROL PLANS.

4. PRIOR TO THE BEGINNING OF CONSTRUCTION PLACE ADVANCED WARNING SIGNS AS SHOWN ON THE ADVANCED SIGNING DETAIL. REMOVE ADVANCED WARNING SIGNS AT THE END OF CONSTRUCTION. SIGN SPACING SHOWN ON THE ADVANCED WARNING DETAIL AND ON THE STANDARD INDEXES ARE APPROXIMATE AND MAY BE ALTERED BASED ON ACTUAL FIELD CONDITIONS.

5. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING PERMANENT PAVEMENT MARKINGS THAT ARE DAMAGED BY TRAFFIC CONTROL PHASING. ALL COSTS FOR REPLACING THESE MARKINGS SHALL BE INCLUDED IN PAY ITEM NO. 102-1, MAINTENANCE OF TRAFFIC, LUMP SUM PAYMENT.

6. FOR TRAFFIC CONTROL MEASURES WHEN CONSTRUCTION EQUIPMENT IS DRIVEN ON OPEN TRAVEL LANES, USE INDEX NO. 619.

7. MOTORIZED AND MECHANICAL EQUIPMENT SHALL BE EFFECTIVELY SHIELDED, PADDED OR LOCATED TO MINIMIZE NOISE AS DIRECTED BY THE ENGINEER.

8. THE CONTRACTOR SHALL NOTIFY ALL EMERGENCY AND RESCUE AGENCIES LOCATED IN THE PROJECT VICINITY 24 HOURS IN ADVANCE OF ANY PROPOSED LANE CLOSURES OR RESTRICTIONS.

9. A DISCUSSION OF LANE CLOSURE OPERATIONS WILL BE MADE PART OF ALL PRE-CONSTRUCTION CONFERENCES. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A WRITTEN PLAN WHICH DETAILS EACH ACTIVITY INVOLVED IN THE LANE CLOSURE, THE PLAN SHALL INCLUDE BACKUP PLANS FOR ACTIVITIES CRITICAL TO RE-OPENING THE LANES TO TRAFFIC. THE BACK-UP PLAN SHALL INCLUDE BACK-UP FOR ALL SUBCONTRACTOR OPERATIONS AS WELL AS THE PRIME CONTRACTOR'S.

   NO LANE CLOSURE WILL BE ALLOWED WITHOUT ABSOLUTE ASSURANCE THAT THE PRIME AND SUBCONTRACTORS HAVE PLANNED THE OPERATIONS TO ACHIEVE RE-OPENING ACCORDING TO THE CONTRACT. AN EXAMPLE OF AN ACCEPTABLE BACK-UP PLAN WOULD INDICATE THE CONTRACTOR CHOOSING TO HAVE TEMPORARY TAPE ON HAND.

10. LANE CLOSURES WILL BE ALLOWED BETWEEN THE HOURS OF 9:00 PM TO 7:00 AM EXCEPT DURING THE DAYS AND TIMES RESTRICTED BY STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 14 DAYS IN ADVANCE OF ANY LANE CLOSURES.

11. DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL PROVIDE A DEDICATED CREW FOR THE INSTALLATION, MAINTENANCE AND REMOVAL OF TRAFFIC CONTROL DEVICES (i.e. BARRICADES, WARNING LIGHTS, SIGHS, ARROW PANELS, ETC.). THE CREW SHALL CONSIST OF AT LEAST 3 MEMBERS OF THE CONTRACTOR'S WORK FORCE, ONE OF WHICH SHALL BE MOT CERTIFIED, WHOSE SOLE RESPONSIBILITY WILL BE THE MAINTENANCE OF THE TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL PROVIDE THIS CREW WITH A WORK VEHICLE TO AID IN MAINTAINING THE TRAFFIC CONTROL DEVICES.

12. A LANE CLOSURE SHALL BE REQUIRED WHENEVER A BOOM ARM OR BUCKET CROSSES OVER A TRAVEL LANE.

13. ALL TRAFFIC CONTROL DEVICES AND SCHEMES SHALL CONFORM TO THE FHWA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION) AND FDOT DESIGN STANDARDS INDEX 600 SERIES.

14. THE CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE FOR ALL PHASES OF CONSTRUCTION.

15. TRAFFIC CONDITIONS, ACCIDENTS, HURRICANE EVACUATION AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT OR REMOVE LANE CLOSURE OR CHANNELIZATIONS SHOWN IN THE PLANS. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS, AS DIRECTED BY THE ENGINEER FOR CORRECTION, IMPROVEMENT, OR MODIFICATION OF ALL TEMPORARY TRAFFIC CONTROL DEVICES, INCLUDING SIGNALIZATION AND TEMPORARY LIGHTING, WITHIN 30 MINUTES FROM THE TIME OF NOTIFICATION.

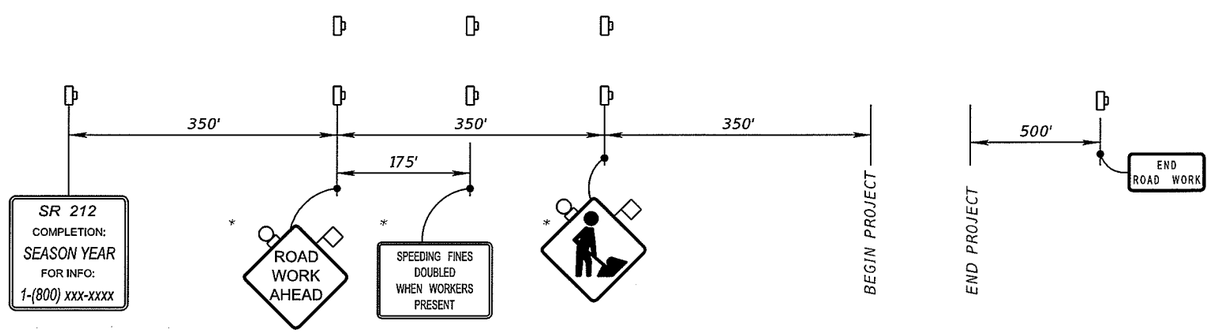
16. THE CONTRACTOR SHALL, AT THE DISCRETION OF THE ENGINEER, OPEN ANY TEMPORARY LANE CLOSURE CAUSING EXTENDED TRAFFIC CONGESTION (5 MINUTES DELAY) UNTIL TRAFFIC HAS RETURNED TO AN ACCEPTABLE FLOW AS DETERMINED BY THE ENGINEER.

17. WHEN EQUIPMENT AND MATERIALS ARE DELIVERED TO THE PROJECT OR WORK ENCROACHES WITHIN TWO FEET OF THE TRAVELWAY, A LANE CLOSURE WILL BE REQUIRED. INDEX 613 OR INDEX 616 SHALL BE USED FOR TRAFFIC CONTROL.

18. SEE LANDSCAPE PLANS FOR EXISTING BARRIER WALL AND GUARDRAIL LOCATIONS.

19. ALL LANES ON SR 212 (BEACH BOULEVARD.) MUST BE OPEN FOR TRAFFIC DURING AN EVACUATION NOTICE OF A HURRICANE OR OTHER CATASTROPHIC EVENT AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT AS DIRECTED BY THE PROJECT ENGINEER.

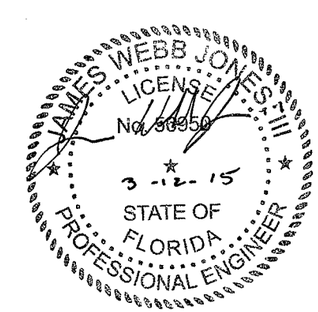
20. SEE INDEX 600 SHEET 7 FOR PROJECT INFORMATION SIGN DETAILS.



* SIGNS TO BE PLACED AT THE BEGINNING PROJECT LIMITS AND ON THE FOLLOWING SIDE STREETS. ST. JOHN'S BLUFF RD, KERNAN BLVD, HODGES BLVD, SAN PABLO RD, AND THE EXIT RAMPS FROM I-295.

SIGN TO BE PLACED 200 FEET FROM ALL SR 212/SIDE STREET INTERSECTIONS WITHIN THE PROJECT LIMITS

ADVANCE WORK ZONE SIGNING DETAIL



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

THE HEIMBURG GROUP, INC.
8481 W. Linebaugh Avenue
TAMPA, FL 33625
(813) 749-0823
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Engineer of Record:
James Webb Jones III, P.E. NO. 56950

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
212	DUVAL	431955-1-52-01

TRAFFIC CONTROL PLAN
GENERAL NOTES

SHEET NO.
TCP-1

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