

COMPONENTS OF CONTRACT PLANS SET

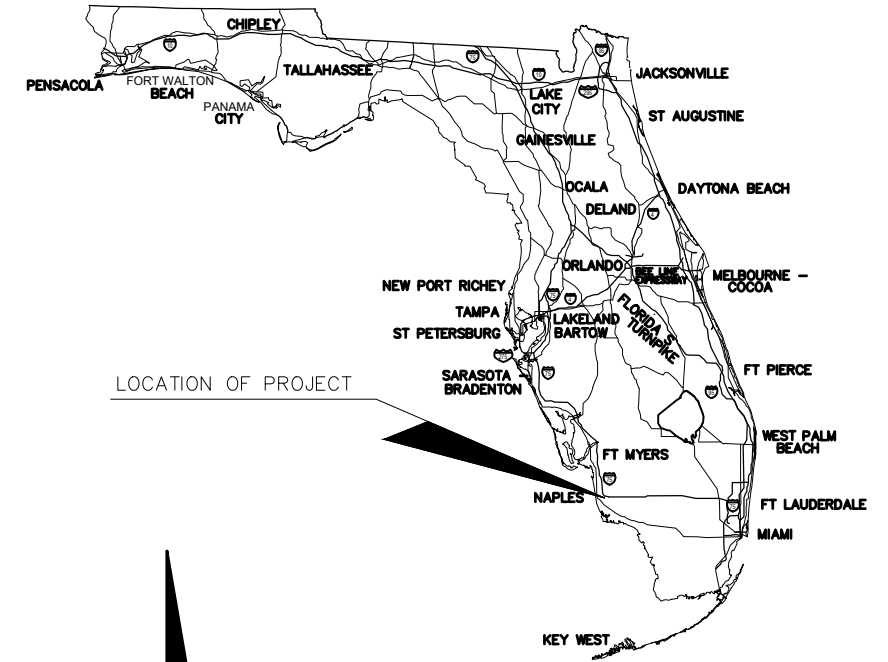
LANDSCAPE PLANS

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
CITY OF NAPLES CITY COUNCIL

CONTRACT PLANS
CITY OF NAPLES PROJECT ID 19F32
COLLIER COUNTY (03010000)
STATE ROAD NO. 45 (US 41)



GENERAL PROJECT DECLARATIONS	
1.	TOTAL LANDSCAPE AREA = LESS THAN 1.6 ACRES.
2.	TOTAL EXCAVATED AREA = LESS THAN 1 ACRE.
3.	EPA NPDES PERMIT NOT REQUIRED FOR PROJECTS LESS THAN 1 ACRES EXCAVATED.
4.	NO CLEARING OF ANY NATIVE VEGETATION WILL TAKE PLACE.
5.	FDOT OUTDOOR ADVERTISING DATABASE REVIEWED AND NO BILLBOARDS PRESENT.
6.	DESIGN SPEED 45 MPH; POSTED SPEED 45, 40 & 30 MPH

PREPARED FOR: CITY OF NAPLES
CITY COUNCIL
NAPLES CITY HALL
735 8TH AVE. SOUTH
NAPLES, FLORIDA 34102

COORDINATING CITY AGENCY: COMMUNITY SERVICES DEPARTMENT
HEATHER SHIELDS, CITY ARBORIST
280 RIVERSIDE CIRCLE
NAPLES, FLORIDA 34102
(239) 213-7136

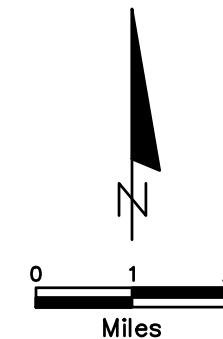
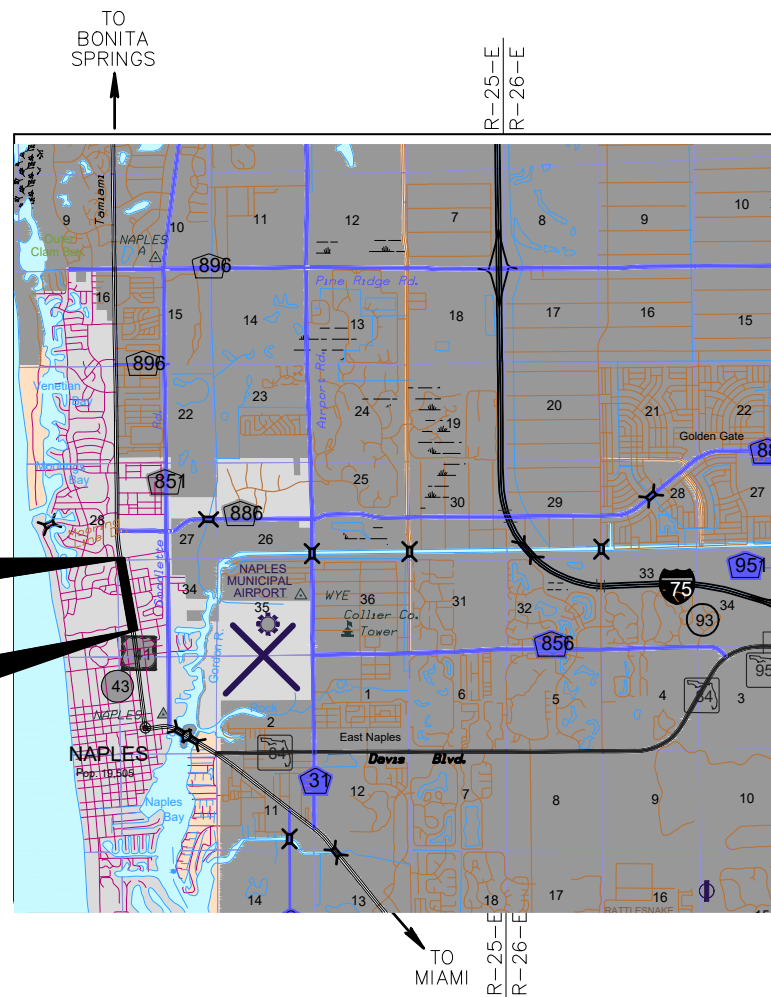
GOVERNING STANDARD PLANS:
Florida Department of Transportation, FY 2018-19 Standards plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

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

GOVERNING STANDARD SPECIFICATIONS:
Florida Department of Transportation, 2017-18 Design Standards and revised Index Drawings as appended herein, and July 2017 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents.

END PROJECT
STA. 146+53.97
MP 10.275

BEGIN PROJECT
STA. 108+12.35
MP 11.035



PLANS PREPARED BY:
McGee & Associates
Landscape Architecture
DESIGN • ENVIRONMENTAL MANAGEMENT • PLANNING
5079 Tamiami Trail East • Naples, Florida 34113
Phone: (239) 417-0707 Fax: (239) 417-0708
Certificate of Authorization LC-C000098 - Michael A. McGee, LA-0000864

VENDOR NO. F592295831
CERTIFICATE OF AUTHORIZATION NO: LCC000098

LANDSCAPE SHOP DRAWINGS
TO BE SUBMITTED TO:
MICHAEL A. MCGEE, RLA, ISA
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(239) 417-0707 OFFICE
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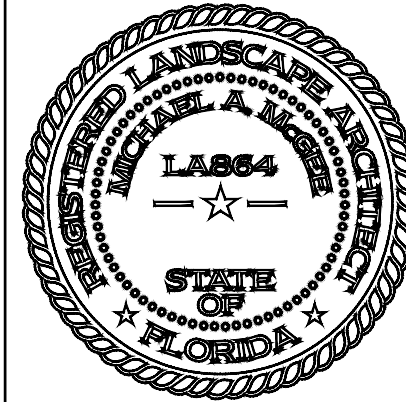
LANDSCAPE PLANS
LANDSCAPE ARCHITECT OF RECORD:
MICHAEL A. MCGEE, RLA
L.A. NO.: LA0000864

CITY PROJECT MANAGER:
HEATHER SHIELDS, CITY ARBORIST
COMMUNITY SERVICES DEPARTMENT

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	4,012.80	.76
BRIDGES	0.00	0.000
NET LENGTH OF PROJECT	4,012.80	.76
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	4,012.80	.76

FISCAL YEAR	SHEET NO.
19	LD-1

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.



THIS DOCUMENT HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

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THE SIGNATURE MUST BE VERIFIED ON
THE ELECTRONIC DOCUMENTS.

MCGEE & ASSOCIATES
5079 TAMiami TRAIL EAST
NAPLES, FLORIDA 34113
CERTIFICATE OF AUTHORIZATION NO. LCC000098
MICHAEL A. MCGEE, L.A. NO. LA0000864

THE ABOVE NAMED LANDSCAPE ARCHITECT SHALL BE RESPONSIBLE FOR THE
FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G10-11.011, F.A.C.

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DATE		BY		DESCRIPTION		DATE		BY		DESCRIPTION		McGee & Associates Landscape Architecture DESIGN * ENVIRONMENTAL MANAGEMENT * PLANNING 5079 Tamiami Trail East * Naples, Florida 34113 Phone: (239) 417-0707 Fax: (239) 417-0708 Certificate of Authorization LC-C000098	CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT			LANDSCAPE PLAN SIGNATURE SHEET	SHEET NO.
													SR45	COLLIER	19F32		LD-2

SUMMARY OF LANDSCAPE PLAN PAY ITEMS

ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY TOTAL			QUANTITY TOTAL
101-1 *	MOBILIZATION	LS	1			0
102-1 *	MAINTENANCE OF TRAFFIC	LS	1			0
110-1-1	CLEARING AND GRUBBING (REMOVAL OF SPECIFIED EXISTING SURFACE VEGETATION)	SY	3663			0
580-1-1	LANDSCAPE COMPLETE-SMALL PLANTS	LS	1			0
580-1-2	LANDSCAPE COMPLETE-LARGE PLANTS	LS	1			0
590-70 *	IRRIGATION SYSTEM	LS	1			0

PAY ITEM NOTES

- 101-1 MOBILIZATION
 A. 10% OF PROJECT BASE BID TOTAL MOBILIZATION LIMIT PLUS BOND COST.
 B. PARTIAL PAYMENTS:
 120 DAY OR LESS CONTRACT 50% OF MOBILIZATION AMOUNT ON 1ST AND 2ND MONTH OF CONTRACT PERIOD. GREATER THAN 120 DAY CONTRACT 25% OF MOBILIZATION AMOUNT IN 1ST (4) MONTHS OF CONTRACT PERIOD.
 C. INCLUDES ALL BOND COST.
- 102-1 MAINTENANCE OF TRAFFIC
 A. INCLUDES COMPLIANCE WITH APPLICABLE FDOT DESIGN STANDARDS 600 SERIES INDEXES, FDOT SPECIFICATIONS SECTION 102 MAINTENANCE OF TRAFFIC (MOT) AND DISTRICT 1 (MOT) POLICY..
 B. INCLUDES COMPLIANCE WITH CITY OF NAPLES MAINTENANCE OF TRAFFIC (MOT) POLICY AND RIGHT-OF-WAY PERMITTING REQUIREMENTS AND SUBMITTALS.
- 110-1-1 CLEARING AND GRUBBING
 A. INCLUDES APPLICATIONS OF BOTH (2)-POST-EMERGENT AND (1)-PRE-EMERGENT HERBICIDE IN ALL PROPOSED PLANTING AND MULCH AREAS.
 B. INCLUDES REMOVAL OF ANY SURFACE VEGETATION (E.G. WEEDS, FERNS, MIMOSA, JUNIPER, FLAX LILY) WITHIN THE MEDIANS.
 C. INCLUDES REMOVAL OF ALL EXISTING DRIP TUBING IRRIGATION SYSTEMS AND COMPONENTS AS NOTED.
- 580-1-1 LANDSCAPE COMPLETE - SMALL PLANTS
 A. INCLUDES SOIL STRUCTURE IMPROVEMENTS UNDER SOIL ENHANCEMENT.
- 590-70 IRRIGATION SYSTEM
 A. INCLUDES INSTALLATION PER IRRIGATION PLANS, NOTES, DETAILS AND SPECIFICATIONS.
 B. INCLUDES COORDINATION WITH CITY STAFF FOR ADJUSTMENTS AND OPERATION.

NOTES:

* IDENTIFIES ITEMS NORMALLY REQUIRING SUBMITTALS, SHOP DRAWINGS, PHOTOS AND/OR PLANS. CONTRACTOR SHALL DETERMINE OTHER ITEMS THAT REQUIRE SHOP DRAWINGS FOR SUBMITTALS.

THESE PAY ITEMS ARE PROVIDED FOR THE PURPOSES OF DESCRIBING WORK TO BE PERFORMED IN ACCORDANCE TO FDOT SPECIFICATIONS. PAY ITEM DESCRIPTIONS ARE FOUND IN THE DEPARTMENTS BASIS OF ESTIMATE MANUAL.

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							ROAD NO. COUNTY PROJECT ID SR45 COLLIER 19F32		LD-3

GENERAL NOTES

PROJECT SIGHT LIMITS & CLEAR ZONE DISTANCES

S.R. 45 (US 41) (TAMIAMI TRAIL NORTH) (7TH AVE. N TO FLEISCHMANN BLVD.)

DESIGN SPEED: 45 MPH
ROADWAY POSTED SPEED: 30, 40 & 45 MPH

TOPIC #625-000-002, FDOT DESIGN MANUAL JANUARY 1, 2019
212 INTERSECTIONS

212.11.3 – SIGNAL CONTROL (AASHTO CASE D)

EXHIBIT 212-7 – INTERSECTION SIGHT DISTANCE: 6 LANE DIVIDED
22' OR LESS MEDIANS (P)
DESIGN SPEED 45 MPH – dx= 625 FT., dL= 445 FT., dr= 115 FT., dm= 530 FT.

TABLE 212.11.1 – SIGHT DISTANCE FOR LEFT TURN FROM HIGHWAY:
DESIGN SPEED 45 MPH – da= 430 FT., db= 165 FT.,
MEDIAN LATERAL OFFSET 6 FT.

212.11.6 – TREES AND VEGETATION

FIGURE 212.11.2 – WINDOW DETAIL

TABLE 212.11.3 – MINIMUM TREE SPACING (WITHIN LIMITS OF CLEAR SIGHT TRIANGLE):
DESIGN SPEED 45: 40 FT. (4" < TREE DIAMETER ≤ 11")
135 FT. (11" < TREE DIAMETER ≤ 18")

FIGURE 212.11.5 – SPECIAL AREAS LIMITED TO GROUND COVER:
100' FOR <50 MPH

PROJECT LANDSCAPE "OFF-SETS"				
ITEM	DRAINAGE STRUCTURES	UNDERGROUND UTILITIES	OVERHEAD UTILITIES	TRAFFIC SIGNS
TREES	15 FT.	15 FT.	25 FT.	8 FT.
PALMS	15 FT.	15 FT.	25 FT.	8 FT.
SHRUBS	15 FT.	15 FT.	15 FT.	8 FT.

UTILITY OWNER CONTACT INFORMATION

- | | | |
|---|-------|---------------|
| 1. CITY OF NAPLES (SEWER) | (239) | 213-4712 |
| 2. CITY OF NAPLES (WATER) | (239) | 213-4712 |
| 3. COLLIER COUNTY INFORMATION TECHNOLOGY (IT) (FIBER) | (239) | 252-6205 |
| 4. COMCAST | (754) | 221-1254 |
| 5. FPL – COLLIER (ELECTRIC & LIGHT) | (386) | 586-6403 |
| 6. CROWN CASTLE FIBER (FIBER) | (786) | 610-7073 |
| 7. SUMMIT BROADBAND INC. (FIBER) | (239) | 325-4105 X261 |
| 11. TECO PEOPLES GAS- FT. MYERS | (813) | 275-3783 |
| 12. CENTURYLINK (PHONE & FIBER OPTIC) | (239) | 263-6234 |
| 13. AMERIGAS DBA BALGAS | (239) | 216-0843 |

LANDSCAPE NOTES:

THESE SPECIFICATIONS ARE IN ADDITION TO CITY OF NAPLES AND/OR FDOT STANDARD SPECIFICATIONS AND DESIGN STANDARDS.

- 1) QUALIFICATIONS:
THE LANDSCAPE CONTRACTOR SHALL BE PROPERLY LICENSED AND INSURED TO PERFORM LANDSCAPE AND IRRIGATION WORK IN CITY OF NAPLES AND WITHIN FLORIDA DEPARTMENT OF TRANSPORTATION (F.D.O.T.) RIGHTS-OF-WAY.
- 2) UTILITY LOCATES:
A. THE CONTRACTOR IS CAUTIONED TO BE AWARE OF UNDERGROUND AND OVERHEAD UTILITIES. PRIOR TO EXCAVATION AND INSTALLATION, THE CONTRACTOR SHALL CHECK WITH SUNSHINE STATE ONE-CALL OF FLORIDA / "811", AND LOCAL UTILITY AGENCIES FOR CURRENT CONTACT INFORMATION AND LOCATION OF ALL UTILITIES PER FLORIDA STATUE 553.851 (1979) OR AS AMENDED BEFORE BEGINNING WORK.
B. PRIOR TO ANY EXCAVATION THE CONTRACTOR SHALL FIELD LOCATE ALL ABOVE GROUND, AT GRADE AND UNDERGROUND UTILITIES. ALL AT GRADE UTILITY BOXES AND MANHOLE ACCESS POINTS WITHIN THE MEDIANS SHALL BE MARKED AND BARRICADED OFF FOR PROTECTION.
- 3) SUBMITTALS:
A. SUPPLY THE FOLLOWING ITEMS FOR REVIEW AND APPROVAL:
 1. EXAMPLE PHOTO SUBMITTALS OF ALL PLANT MATERIALS THAT CLEARLY SHOWS CLEAR TRUNK HEIGHT, ROOT BALL MEASUREMENT, FOLIAGE, AND EVIDENCE OF REGENERATED ROOTS (WHEN APPLICABLE). PHOTOS SHALL CONTAIN MEASURING DEVICE TO SHOW HEIGHTS. PHOTOS SHALL BE SUBMITTED FOR EACH PLANT SPECIES AND CONVEY THE MINIMUM CHARACTERISTICS TO DETERMINE THAT THE PLANTS MEET A FLORIDA GRADES & STANDARDS NUMBER ONE OR BETTER GRADE.
 2. SAMPLE OF MULCH MATERIAL.
 3. FERTILIZER ANALYSIS AND MANUFACTURER'S LABEL SHOWING RECOMMENDED APPLICATION RATES.
 4. SUBMIT CERTIFIED AS-BUILT / RECORD DRAWING PLANS TO THE LANDSCAPE ARCHITECT OF RECORD AND THE PROJECT MANAGER WITHIN 14 DAYS FROM THE PROJECT'S FINAL ACCEPTANCE.
 5. IRRIGATION PIPING, CONDUITS, VALVES, WIRING AND ANY OTHER REQUIRED IRRIGATION SYSTEM COMPONENT DATA SHEETS.
 6. PREPARE AND SUBMIT A MAINTENANCE OF TRAFFIC PLAN.
- 4) PLAN DEVIATIONS:
THE PROJECT MANAGER / LANDSCAPE ARCHITECT SHALL APPROVE ANY DEVIATIONS FROM THE PLANS THAT MAY AFFECT THE DESIGN INTENT OR IS AN ISSUE WITH VEHICULAR OR PEDESTRIAN SAFETY. INSTALL NO PLANT MATERIALS THAT WILL BLOCK OR CREATE CONFLICTS WITH TRAFFIC CONTROL SIGNS, STREET LIGHTS, OVERHEAD AND UNDERGROUND UTILITIES, ACCESS WAYS, OR FIRE HYDRANTS. IMMEDIATELY NOTIFY THE PROJECT MANAGER / LANDSCAPE ARCHITECT WHEN ANY OF THESE ISSUES ARE ENCOUNTERED.
- 5) SITE PREPARATION:
A. CONTRACTOR SHALL LOCATE EXISTING DRIP TUBING IRRIGATION COMPONENT BOXES PRIOR TO REMOVING THE DRIP TUBING SYSTEM FLUSH VALVES, FILTERS AND PRESSURE REGULATORS.
B. EXISTING ZONE CONTROL VALVES SHALL BE LOCATED AND LATERAL PIPING CAPPED DOWNSTREAM OF THE VALVE BOX.
C. CONTRACTOR SHALL REMOVE ALL DRIP LINE TUBING AND ALL COMPONENTS LESS ZONE CONTROL VALVES, OF THE EXISTING DRIP LINE IRRIGATION SYSTEMS.
D. VEGETATION REMOVAL: CONTRACTOR SHALL REMOVE ALL JUNIPERS, FLAX LILIES, FERNS AND MIMOSA REMAINING WITHIN THE MEDIANS.

- 6) SOIL ENHANCEMENT –SOIL STRUCTURE IMPROVEMENT:
 - A. MECHANICALLY SCARIFY / LOOSEN EXISTING SOIL TO AN (8 – 10) EIGHT TO TEN INCH DEPTH IN PROPOSED PLANTING AREAS. SCARIFY / LOOSEN SHALL MEAN ROTOR TILLING WITH MULTIPLE PASSES IN ALTERNATING DIRECTIONS. THE SCARIFYING AREAS SHALL BE THE PROPOSED PLANTING AREAS LESS AN EIGHTEEN (18) INCH OFFSET FROM THE BACK OF ALL CURBING OR PAVERS. SCARIFYING SHALL NOT OCCUR ALONG EXISTING SHRUB PLANTINGS TO REMAIN.
 - B. SOIL ENHANCEMENT SHALL INCLUDE ROUGH AND FINAL GRADING. MEDIAN SOIL CROSS SECTION PROFILE GRADE SHALL BE GENERALLY ROUNDED AND MOUNDED ALONG THE CENTER LINE TO A POINT NO GREATER THAN (4) FOUR INCHES ABOVE THE TOP OF THE CURBING, AND THEN SLOPE DOWNWARD TOWARD THE BACK OF CURBING TO A POINT (4) FOUR INCHES BELOW TOP OF CURBING.
 - C. APPLY (2) POST-EMERGENT HERBICIDE APPLICATIONS TO ALL AREAS TO RECEIVE MULCH. FIRST APPLICATION SHALL BE AFTER PLANT REMOVALS AND CONCENTRATE ON THE REMAINING MIMOSA PLANTS IN PROPOSED PLANTING AREAS AND ALONG EXISTING PLANTINGS THAT ARE TO REMAIN. SECOND APPLICATION SHALL BE AFTER ROTOR TILLING AND GRADING PRIOR TO PLANTING. SUBMIT PRODUCT AND APPLICATION PROCEDURES TO THE PROJECT MANAGER / LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO THE PRE-CONSTRUCTION MEETING. APPLICATIONS SHALL BE MADE A MINIMUM OF (7) DAYS PRIOR TO ANY PLANT INSTALLATIONS. WEED CONTROL IN ALL MULCH AREAS SHALL BE MAINTAINED THROUGH INSTALLATION PERIOD UNTIL FINAL PROJECT ACCEPTANCE.
- 7) LANDSCAPE SOIL:
INSTALLATION OF UNSUITABLE PLANTING PIT SOILS SHALL BE PER FDOT DESIGN SPECIFICATIONS SECTION 987 'SOIL LAYER MATERIALS' SECTION 987.2.4. SUBMIT SOIL SAMPLES TO THE PROJECT MANAGER FOR APPROVAL PRIOR TO ON-SITE CONSTRUCTION. THE CONTRACTOR SHALL PAY TO HAVE TESTS PERFORMED.
- 8) WATERING:
DURING PROJECT INSTALLATION PERIOD, KEEP THE SOIL MOISTURE IN ALL PLANTING AREAS TO A POINT KNOWN AS FIELD CAPACITY. DURING THE INSTALLATION PERIOD IT IS THE CONTRACTOR'S RESPONSIBILITY FOR MONITORING AND APPLYING WATER TO THE PROJECT PLANTINGS UNDER IRRIGATION. SOIL MOISTURE LEVEL SHALL BE TAKEN FROM A FOUR (4) INCH DEEP EXCAVATION, AT WHICH POINT THE SOIL SHALL HOLD TOGETHER TO FORM A HAND CLUMP, WHICH WILL BE CONSIDERED AT FIELD CAPACITY.
- 9) FERTILIZATION:
ALL PLANTS SHALL BE PLANTED WITH TIME RELEASED BURIED FERTILIZER TABLETS, (E.G. PRODUCT EXAMPLES: (AGRIFORM 21 GRAM TABLETS). AFTER SUBSTANTIAL COMPLETION ACCEPTANCE INSTALL GRANULAR 8-2-10 ULTRA FOR TREES AND SHRUBS AND 8-2-12 FOR PALMS OCT. THRU MAY OR A 6-0-15 JUN. THRU SEPT. ANALYSIS FERTILIZER. ALL FERTILIZER SHALL BE APPLIED PER MANUFACTURER'S LABEL RECOMMENDATIONS.
- 10) PRUNING:
PRUNING SHALL COMPLY WITH MOST CURRENT ANSI A300 PART 1 STANDARDS. A CERTIFIED ARBORIST SHALL OVERSEE ALL PRUNING OPERATIONS AS REQUIRED DURING CONSTRUCTION PERIOD:
 - A. TO REMOVE ALL CROSSING, DEFLECTING AND CIRCLING ROOTS.
 - B. TO MAINTAIN FDOT MAINTENANCE RATING PROGRAM REQUIREMENTS AND UTILITY CLEARANCES.
 - C. TO COMPLY OR MAINTAIN HORIZONTAL AND VERTICAL CLEARANCES WITHIN THE LIMITS OF CLEAR SIGHT OR LIMITS OF NO SIGHT OBSTRUCTIONS.
 - D. TO MAINTAIN VISIBILITY OF TRAFFIC CONTROL SIGNS.
- 11) LITTER REMOVAL:
LITTER REMOVAL WITHIN THE CONTRACT DESIGNATED WORK AREAS SHALL BE PERFORMED THROUGHOUT THE INSTALLATION PERIOD AND UNTIL FINAL ACCEPTANCE.

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Landscape Architecture
DESIGN • ENVIRONMENTAL MANAGEMENT • PLANNING
5079 Tamiami Trail East • Naples, Florida 34113
Phone: (239) 417-0707 Fax: (239) 417-0708
Certificate of Authorization LC-C000098

CITY OF NAPLES CITY COUNCIL
COMMUNITY SERVICES DEPARTMENT

ROAD NO.	COUNTY	PROJECT ID
SR45	COLLIER	19F32

LANDSCAPE PLAN
GENERAL NOTES (1)

SHEET NO.
LD-4

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LANDSCAPE NOTES (Continued):

- 12) LARGE TREES AND PALMS:
ALL LARGE TREES AND PALMS SHALL BE INSTALLED TO MAINTAIN THE UTILITY AGENCY'S MINIMUM HORIZONTAL SEPARATION FROM UNDERGROUND AND OVERHEAD UTILITIES. SEPARATIONS SHALL ONLY BE REDUCED THROUGH GRANTED DEVIATIONS BY THE UTILITY AGENCY. REFER TO LANDSCAPE SETBACK OR OFFSET SCHEDULE. THE LANDSCAPE ARCHITECT OF RECORD AND/OR PROJECT MANAGER SHALL APPROVE THE FLAGGED TREE LOCATIONS AND PLANTING LAYOUTS ON-SITE PRIOR TO INSTALLATIONS.
- 13) PLANTING PITS:
PLANTING PITS CONTAINING LIME ROCK OR OTHERWISE UNSUITABLE PLANT GROWING MATERIAL SHALL HAVE THE MATERIAL REMOVED PER INDEX 544 PLANTING PIT DEPTHS AND WIDTHS. UNSUITABLE MATERIAL SHALL BE REPLACED WITH FDOT LANDSCAPE SOIL MATERIAL. EXISTING SOIL BELOW THE PLANTING PIT DEPTH SHALL BE LOOSENEED OR SCARIFIED AN ADDITIONAL SIX (6) INCH MINIMUM DEPTH TO PROVIDE FOR PROPER PERCOLATION OF WATER PRIOR TO BACKFILLING. AFTER SCARIFYING THE PLANT PIT SHALL BE TESTED FOR PERCOLATION AND IF IT DOES NOT DRAIN THEN ADDITIONAL MATERIAL MUST BE REMOVED AND/OR A VERTICAL OR HORIZONTAL SUB DRAIN SYSTEM INSTALLED TO REMOVE POTENTIAL STANDING WATER.
- 14) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINISH GRADING IN PLANTING AREAS, HAND RAKE PRIOR TO INSTALLING PLANTS. ALL ROCKS (2) INCHES IN DIAMETER AND GREATER SHALL BE REMOVED AND DISPOSED OFF SITE BY CONTRACTOR.
- 15) ALL EROSION CONTROL AS REQUIRED WITHIN RIGHT-OF-WAY SHALL COMPLY WITH THE FDOT'S EROSION AND SEDIMENT CONTROL MANUAL AND STANDARD SPECIFICATION SECTION 104.
- 16) ALL WORK WITHIN THE RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE CITY OF NAPLES AND/OR FDOT'S ROAD DESIGN STANDARDS AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 17) THE CONTRACTOR SHALL NOT DURING CONSTRUCTION INTRODUCE ANY FORM OF UN-PERMITTED STORM WATER DISCHARGE INTO THE STORM WATER SYSTEMS, PAVEMENTS, RIGHT-OF-WAY AREAS OR EASEMENTS.
- 18) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE AND COMPLY WITH ALL APPLICABLE STATE, COUNTY, OR CITY ORDINANCES, STATUES OR POLICY REQUIREMENTS RELATED TO THE SITE PREPARATION, LANDSCAPING AND IRRIGATION WORK TO BE PERFORMED.
- 19) ALL MATERIALS USED INSIDE THE RIGHT-OF-WAY SHALL BE APPROVED BY THE CITY PRIOR TO PLACEMENT INSIDE THE RIGHT-OF-WAY. DELIVERY TICKETS OF THE MATERIALS USED INSIDE THE RIGHT-OF-WAY SHALL BE PROVIDED TO THE CITY PROJECT MANAGER.
- 20) THE CONTRACTOR IS RESPONSIBLE FOR RESOLVING ANY UTILITY CONFLICTS BEFORE CONSTRUCTION BEGINS. A SEPARATE UTILITY PERMIT MAYBE REQUIRED FOR ANY UTILITY CONFLICT WORK OR DIRECTIONAL BORE WITHIN THE RIGHT-OF-WAY.
- 21) CONTRACTOR IS REQUIRED TO CONTACT THE FOLLOWING PRIOR TO COMMENCEMENT OF WORK UNDER CONTRACT:
A. CITY PROJECT MANAGER

- 22) MULCH:
ALL MULCH SHALL BE 100% SHREDDED WOOD MATERIAL. "USE OF CYPRESS MULCH IS PROHIBITED". MULCH SHALL BE APPLIED TO ALL PLANTINGS PER FDOT INDEX 544 TO A MINIMUM THREE (3) INCHES. INDEX 544 SHALL BE FURTHER AMENDED TO EXPAND MULCH AREAS SO THAT ALL ABOVE GROUND TREE BRACING AND GUYING COMPONENTS ARE WITHIN THE MULCH AREAS. MINIMUM MULCH DEPTH SHALL BE MAINTAINED THROUGH INSTALLATION PERIOD TO FINAL ACCEPTANCE.

ALL TREES AND PALMS SHALL HAVE A FOUR (4) FOOT MINIMUM RADIUS OF MULCH AROUND THE TRUNK. NO SHRUBS OR GROUND COVERS SHALL BE PLACED WITHIN THIS MULCH AREA. NO MULCH SHALL BE IN CONTACT WITH ANY TREE TRUNKS.

A MINIMUM TWO (2) FOOT WIDE MULCH BAND SHALL ALWAYS BE MAINTAINED BETWEEN THE OUTSIDE EDGE OF THE FOLIAGE AND THE BACK OF CURBING OR PAVEMENT.
- 23) CONDUIT & MAIN TRENCHING RESTORATION:
ALL CONDUIT AND IRRIGATION PIPE TRENCHING THROUGH EXISTING LANDSCAPED MEDIANS WILL REQUIRE RESTORATION OF THE DISTURBED SOIL TO BE RETURNED TO ORIGINAL / EXISTING CONDITIONS TO INCLUDE TRENCHING DEBRIS REMOVAL, BACKFILL AND FINISHED GRADING.
- 24) THE SMALL SHRUBS AND GROUND COVERS PLANTED IN THE MEDIANS SHALL HAVE THE FIRST OR OUTSIDE ROW OF PLANTS OFFSET FROM BACK OF CURBING OR PAVEMENT FOUR AND ONE HALF (4.5) FEET. THE REMAINING INTERIOR PLANT ROWS SHALL THEN BE EQUALLY SPACED BETWEEN THE OUTSIDE ROWS TO BEST ACCOMMODATE THE LAYOUT OF THE PLANTS. THE INTERIOR PLANT ROWS SHALL BE LAID OUT TO CREATE A TRIANGULAR PLANT SPACING PATTERN.

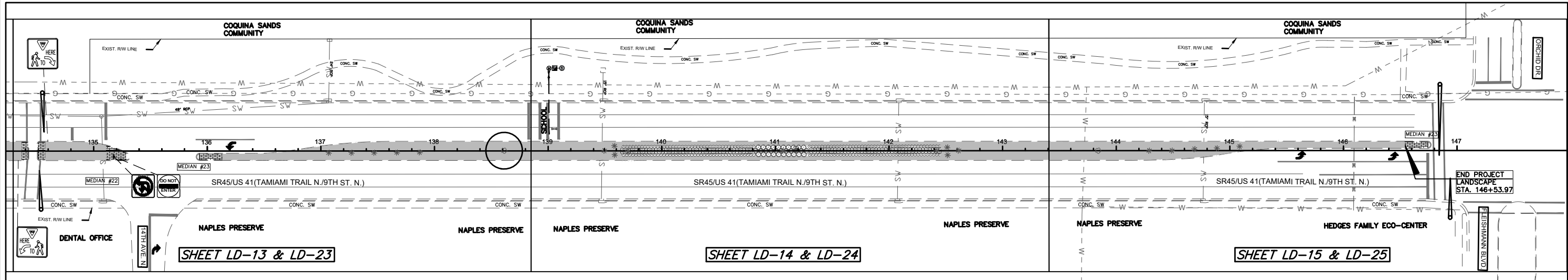
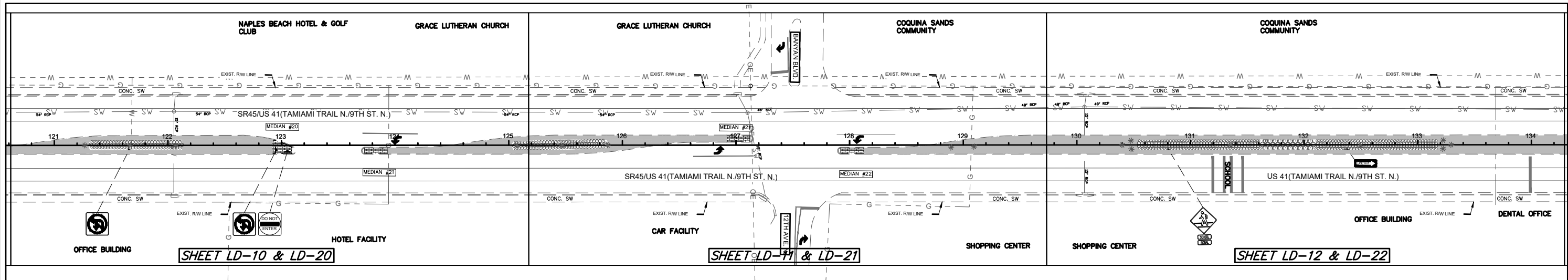
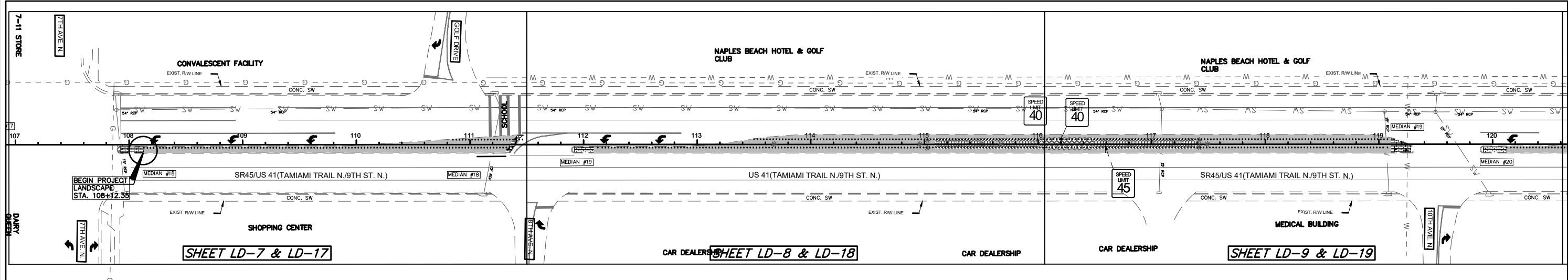
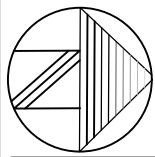
MAINTENANCE OF TRAFFIC GENERAL NOTES:

- 1. LANE CLOSURES SHALL COMPLY WITH THE FDOT DISTRICT 1 LANE CLOSURE POLICY AND PROCEDURES.
FDOT CONTACTS FOR NOTIFICATION ARE:
RANDY WENG FDOT FORT MYERS OPERATIONS PERMIT COORDINATOR 239-985-7810
JASON ZIGLAR FERROVIAL SERVICES 281-740-2858

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

McGee & Associates			CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT			LANDSCAPE PLAN GENERAL NOTES (2)		SHEET NO.
<small>Landscape Architecture DESIGN * ENVIRONMENTAL MANAGEMENT * PLANNING 5079 Tamiami Trail East * Naples, Florida 34113 Phone: (239) 417-0707 Fax: (239) 417-0708 Certificate of Authorization LC-C000098</small>			ROAD NO.	COUNTY	PROJECT ID	LD-5		
			SR45	COLLIER	19F32			

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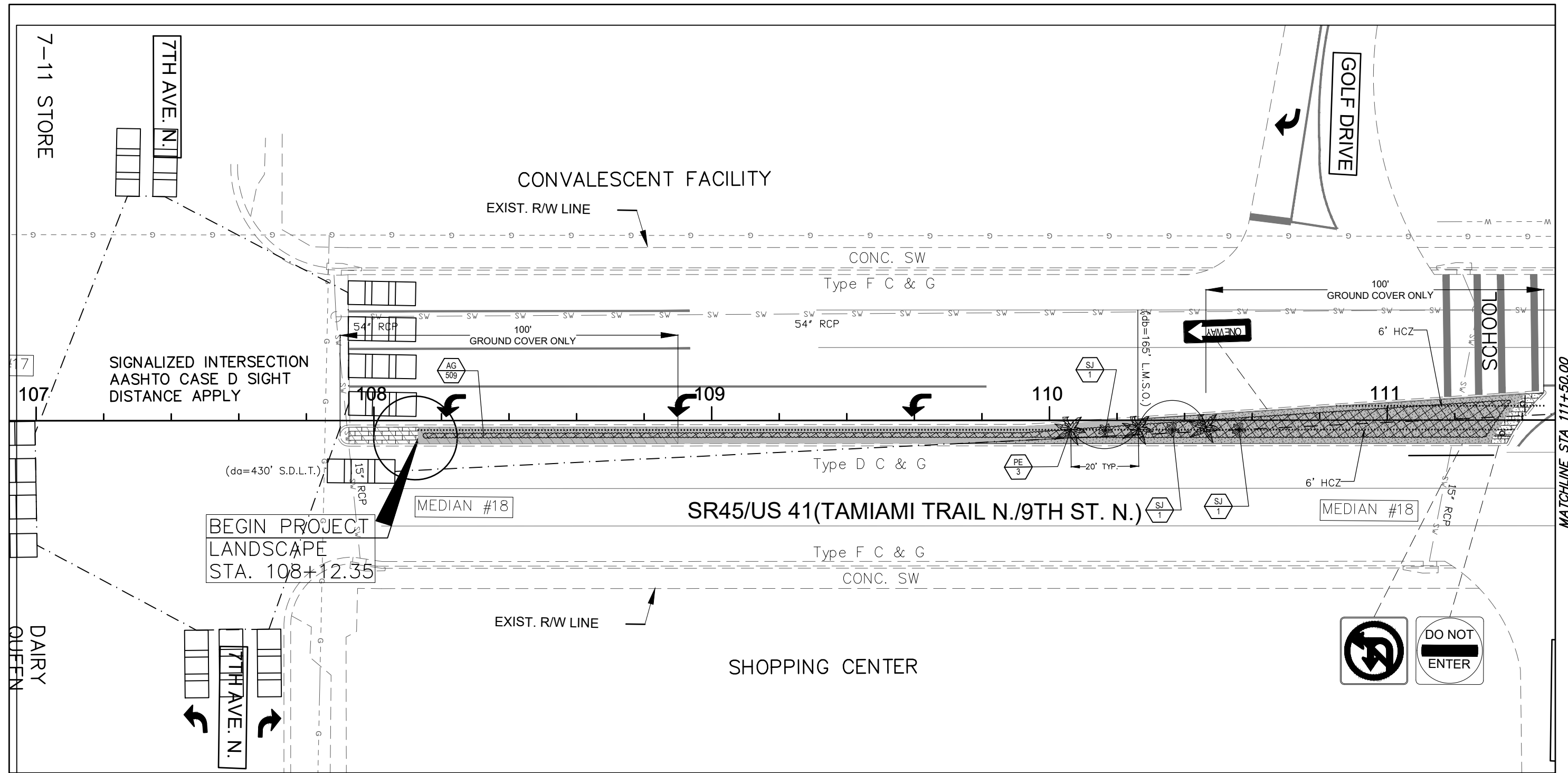
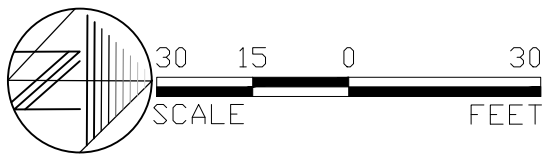
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ROAD NO.	COUNTY	PROJECT ID
SR45	COLLIER	19F32

LANDSCAPE PLAN
 PROJECT SHEET LAYOUT

SHEET NO.
 LD-6

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SOIL ENHANCEMENT LEGEND

 INDICATES MEDIAN AREAS TO RECEIVE CLEARING AND GRUBBING AND/OR SOIL STRUCTURE IMPROVEMENTS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

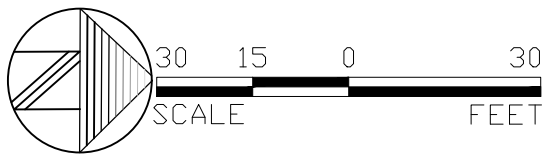
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CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT		
ROAD NO.	COUNTY	PROJECT ID
SR45	COLLIER	19F32

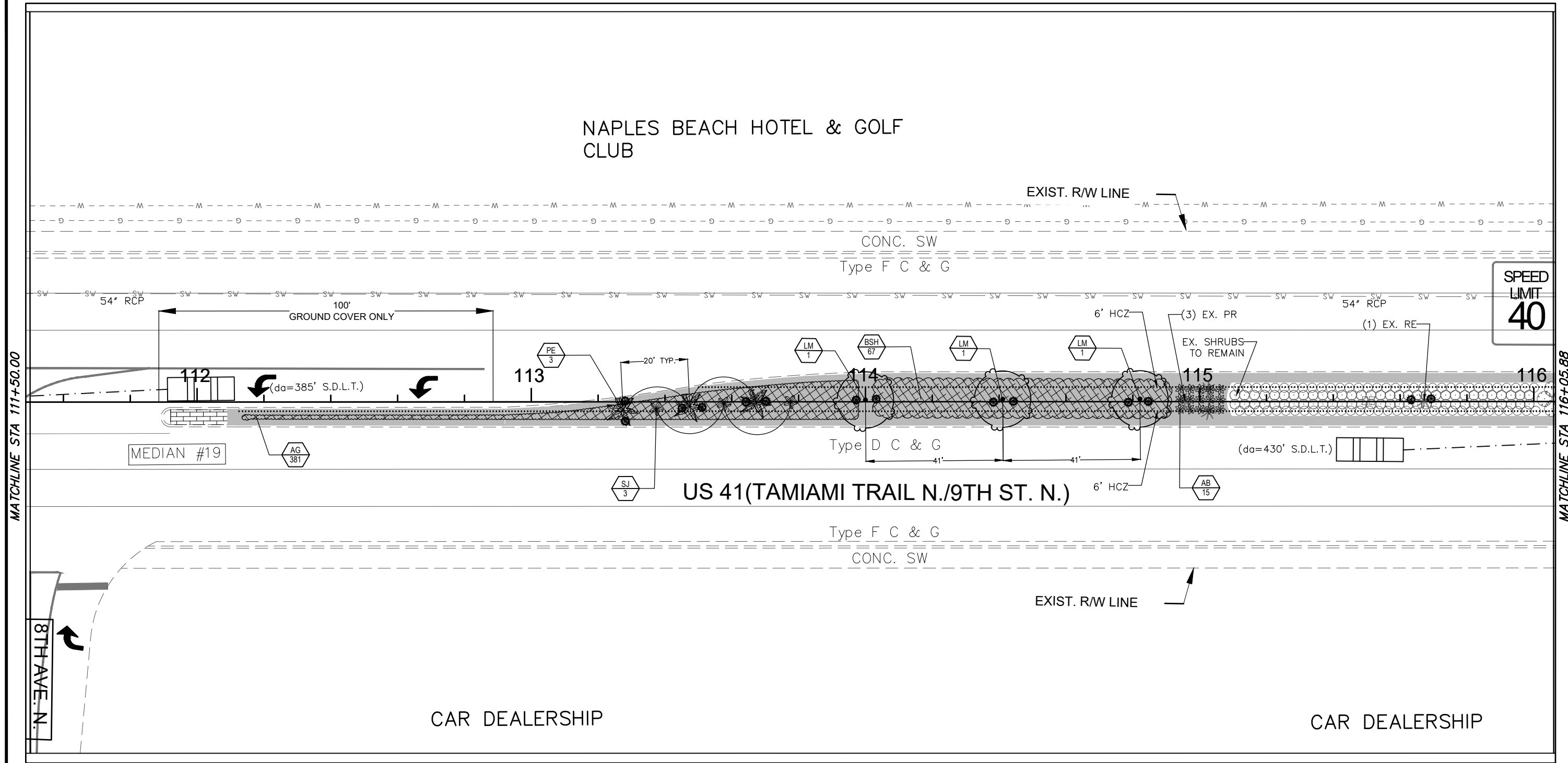
LANDSCAPE PLAN
PLANTING PLAN (01)

SHEET NO.
LD-07

MATCHLINE STA 111+50.00
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NAPLES BEACH HOTEL & GOLF CLUB



MATCHLINE STA 111+50.00

MATCHLINE STA 116+05.88

SOIL ENHANCEMENT LEGEND

INDICATES MEDIAN AREAS TO RECEIVE CLEARING AND GRUBBING AND/OR SOIL STRUCTURE IMPROVEMENTS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

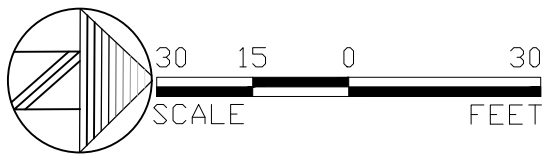
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CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT		
ROAD NO.	COUNTY	PROJECT ID
SR45	COLLIER	19F32

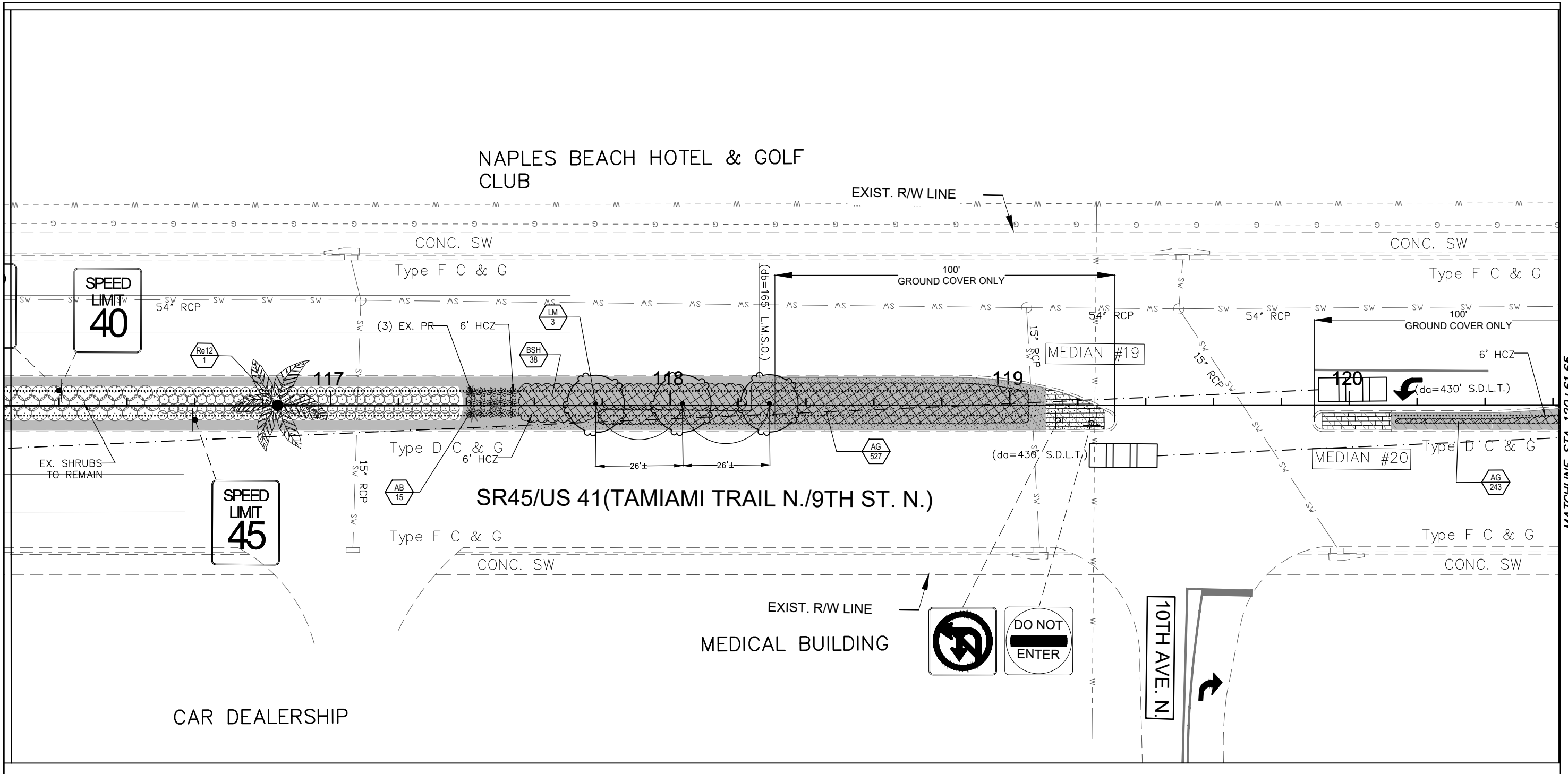
LANDSCAPE PLAN
PLANTING PLAN (02)

SHEET NO.
LD-08

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NAPLES BEACH HOTEL & GOLF CLUB



MATCHLINE STA 116+05.88

MATCHLINE STA 120+61.65

SOIL ENHANCEMENT LEGEND

 INDICATES MEDIAN AREAS TO RECEIVE CLEARING AND GRUBBING AND/OR SOIL STRUCTURE IMPROVEMENTS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

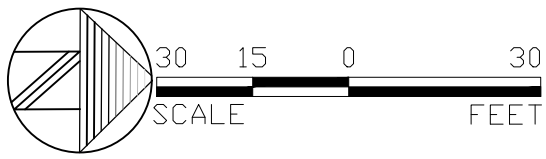
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CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT		
ROAD NO.	COUNTY	PROJECT ID
SR45	COLLIER	19F32

LANDSCAPE PLAN
PLANTING PLAN (03)

SHEET NO.
LD-09

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NAPLES BEACH HOTEL & GOLF CLUB

GRACE LUTHERAN CHURCH

EXIST. R/W LINE

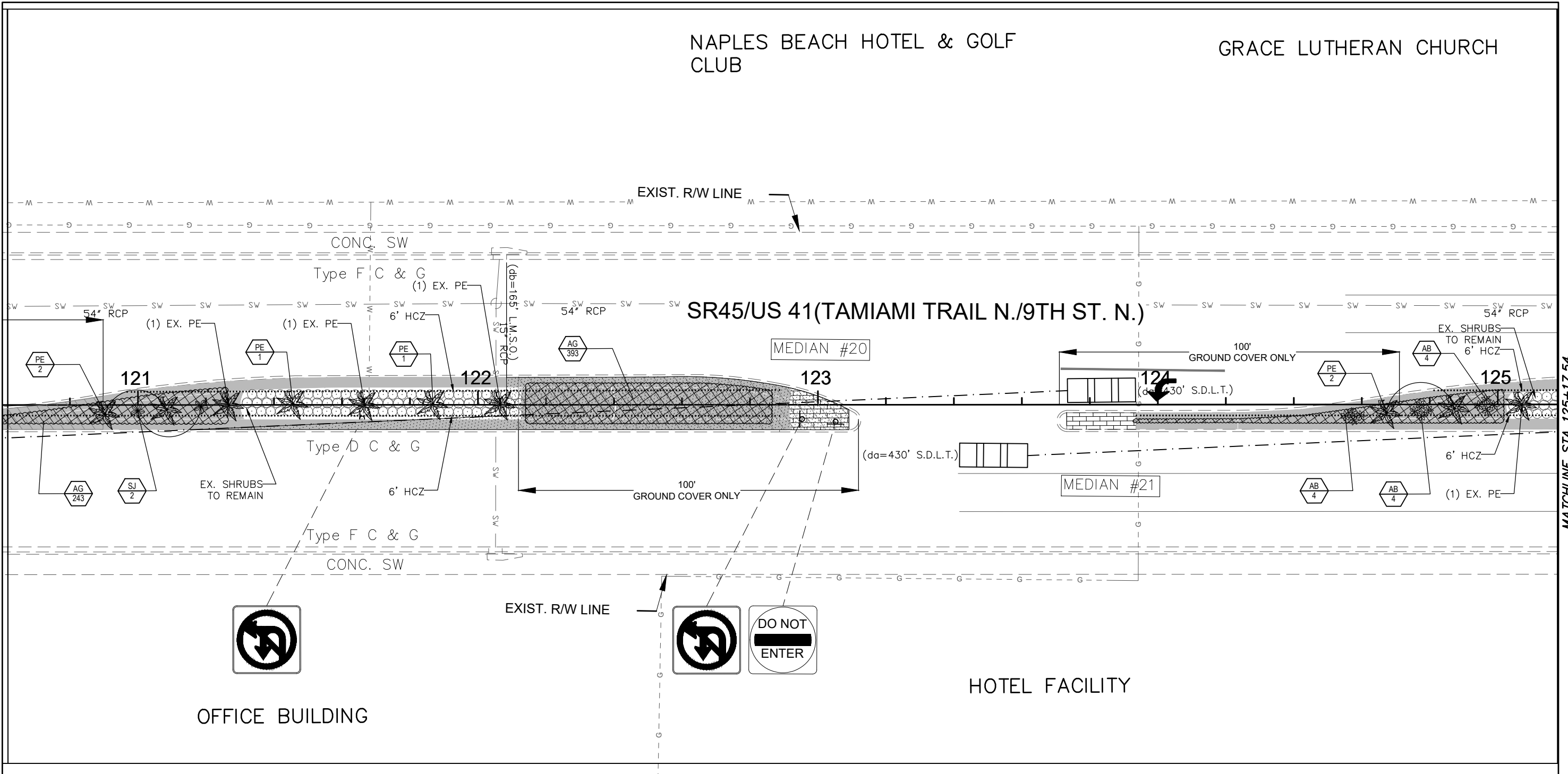
SR45/US 41 (TAMIAMI TRAIL N./9TH ST. N.)

MEDIAN #20

MEDIAN #21

MATCHLINE STA 120+61.65

MATCHLINE STA 125+17.54



SOIL ENHANCEMENT LEGEND

INDICATES MEDIAN AREAS TO RECEIVE CLEARING AND GRUBBING AND/OR SOIL STRUCTURE IMPROVEMENTS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

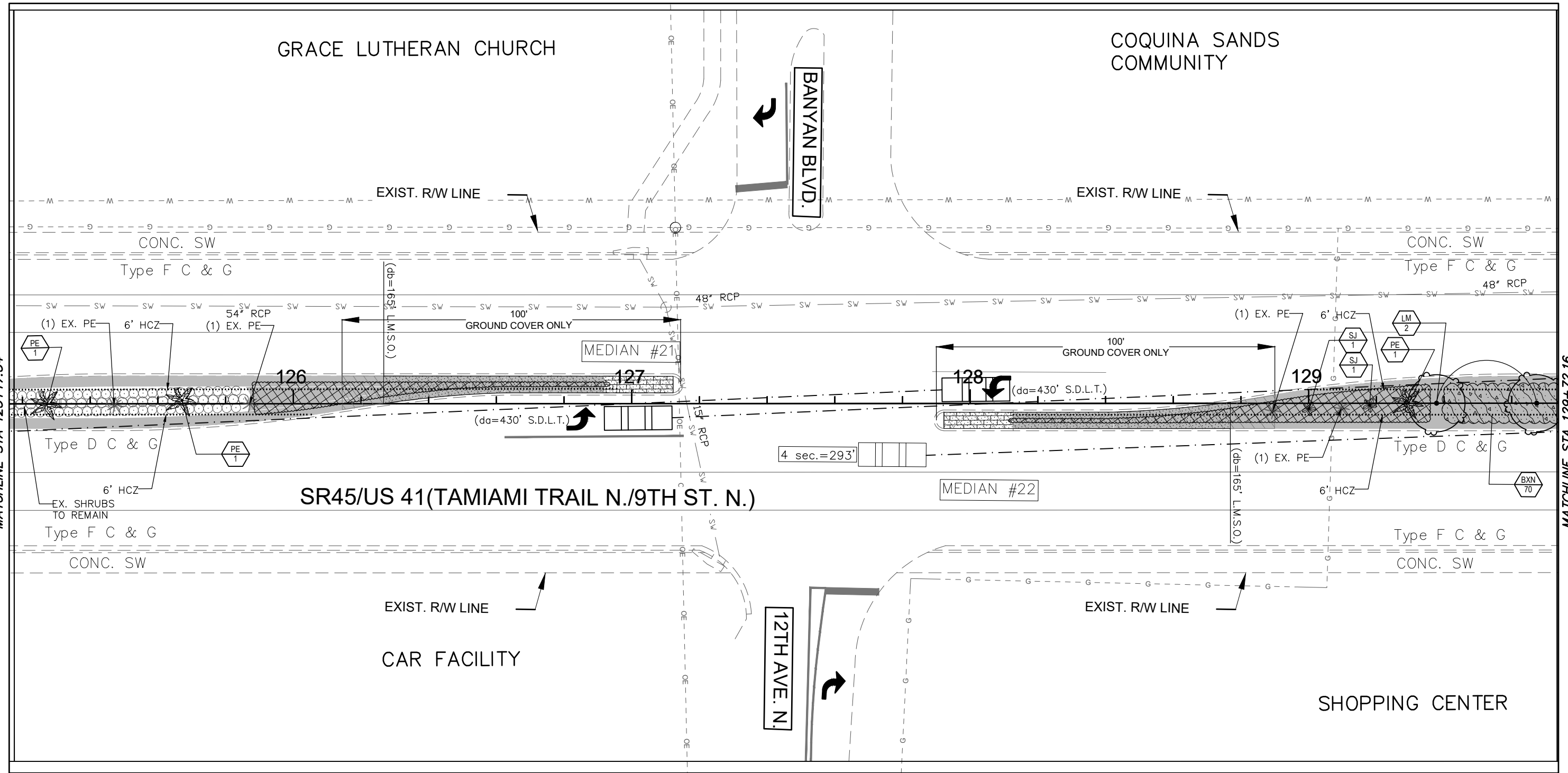
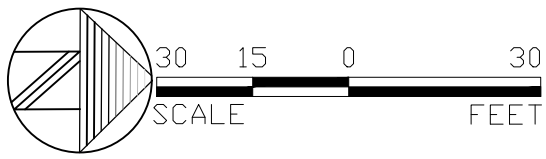
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SR45	COLLIER	19F32

LANDSCAPE PLAN
 PLANTING PLAN (04)

SHEET NO.
 LD-10

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MATCHLINE STA 125+17.54

MATCHLINE STA 129+72.16

SOIL ENHANCEMENT LEGEND

INDICATES MEDIAN AREAS TO RECEIVE CLEARING AND GRUBBING AND/OR SOIL STRUCTURE IMPROVEMENTS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

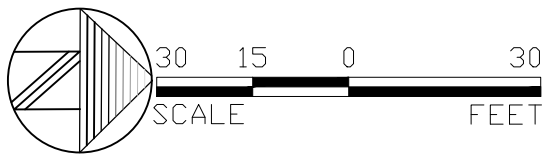
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CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT		
ROAD NO.	COUNTY	PROJECT ID
SR45	COLLIER	19F32

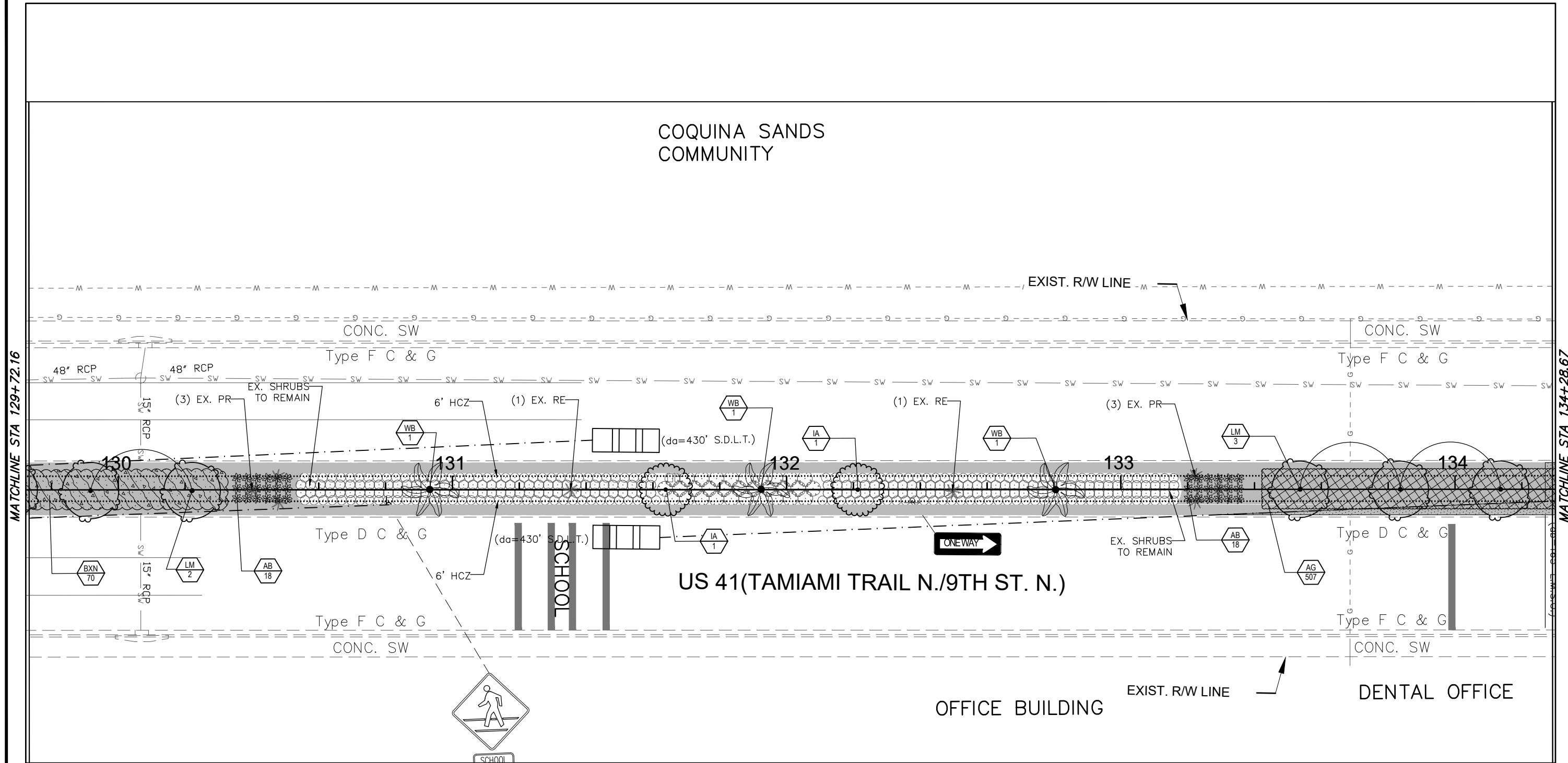
**LANDSCAPE PLAN
PLANTING PLAN (05)**

SHEET NO.
LD-11

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COQUINA SANDS
COMMUNITY



MATCHLINE STA 129+72.16

MATCHLINE STA 134+28.67

SOIL ENHANCEMENT LEGEND

 INDICATES MEDIAN AREAS TO RECEIVE CLEARING AND GRUBBING AND/OR SOIL STRUCTURE IMPROVEMENTS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

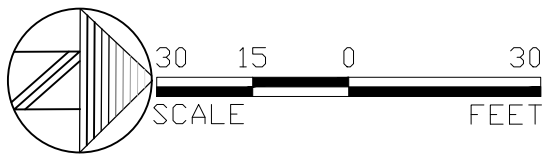
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CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT		
ROAD NO.	COUNTY	PROJECT ID
SR45	COLLIER	19F32

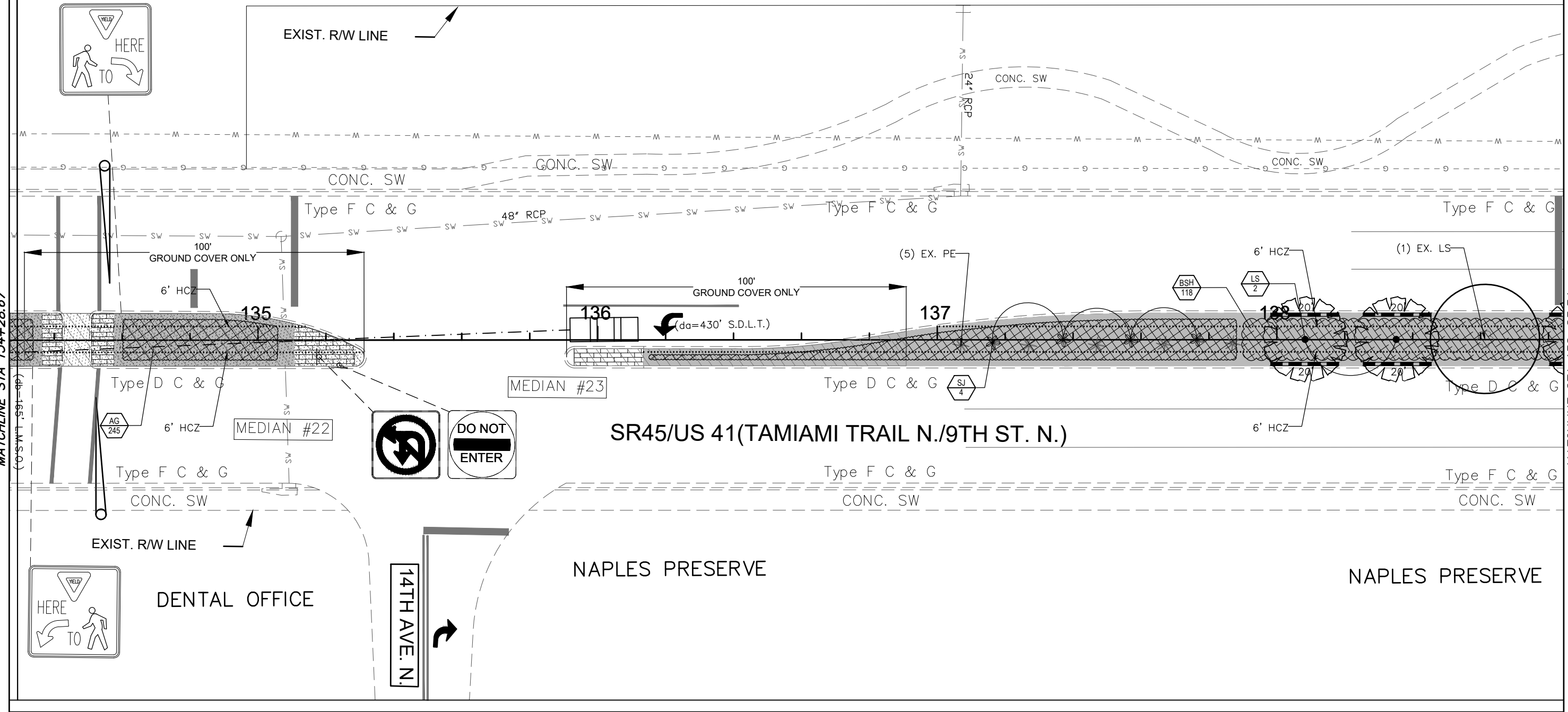
LANDSCAPE PLAN
PLANTING PLAN (06)

SHEET NO.
LD-12

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COQUINA SANDS
COMMUNITY



MATCHLINE STA 134+28.67

MATCHLINE STA 139+83.34

SOIL ENHANCEMENT LEGEND

 INDICATES MEDIAN AREAS TO RECEIVE CLEARING AND GRUBBING AND/OR SOIL STRUCTURE IMPROVEMENTS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

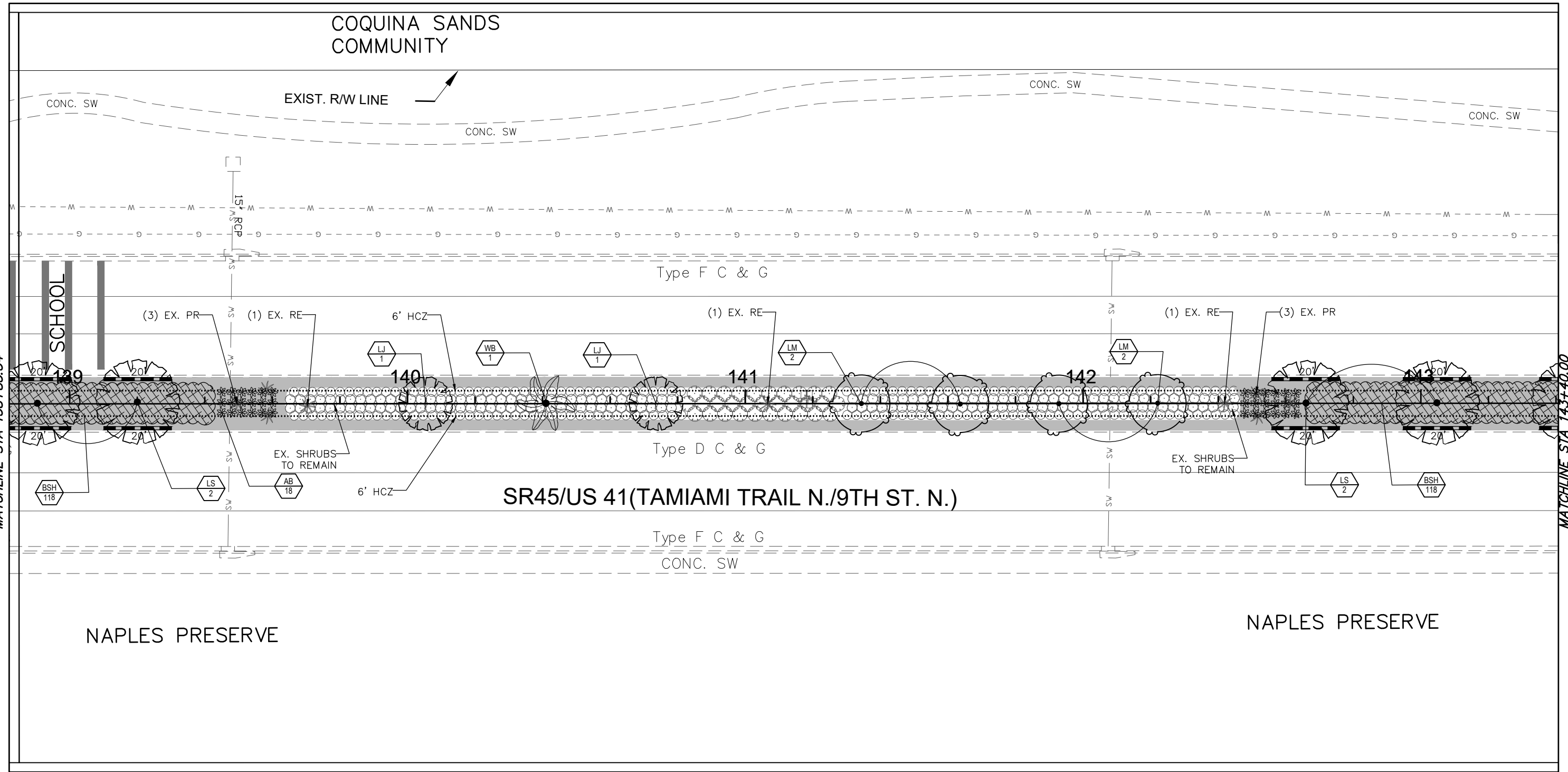
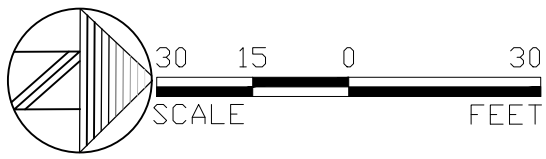
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CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT		
ROAD NO.	COUNTY	PROJECT ID
SR45	COLLIER	19F32

LANDSCAPE PLAN
PLANTING PLAN (07)

SHEET NO.
LD-13

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SOIL ENHANCEMENT LEGEND

INDICATES MEDIAN AREAS TO RECEIVE CLEARING AND GRUBBING AND/OR SOIL STRUCTURE IMPROVEMENTS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

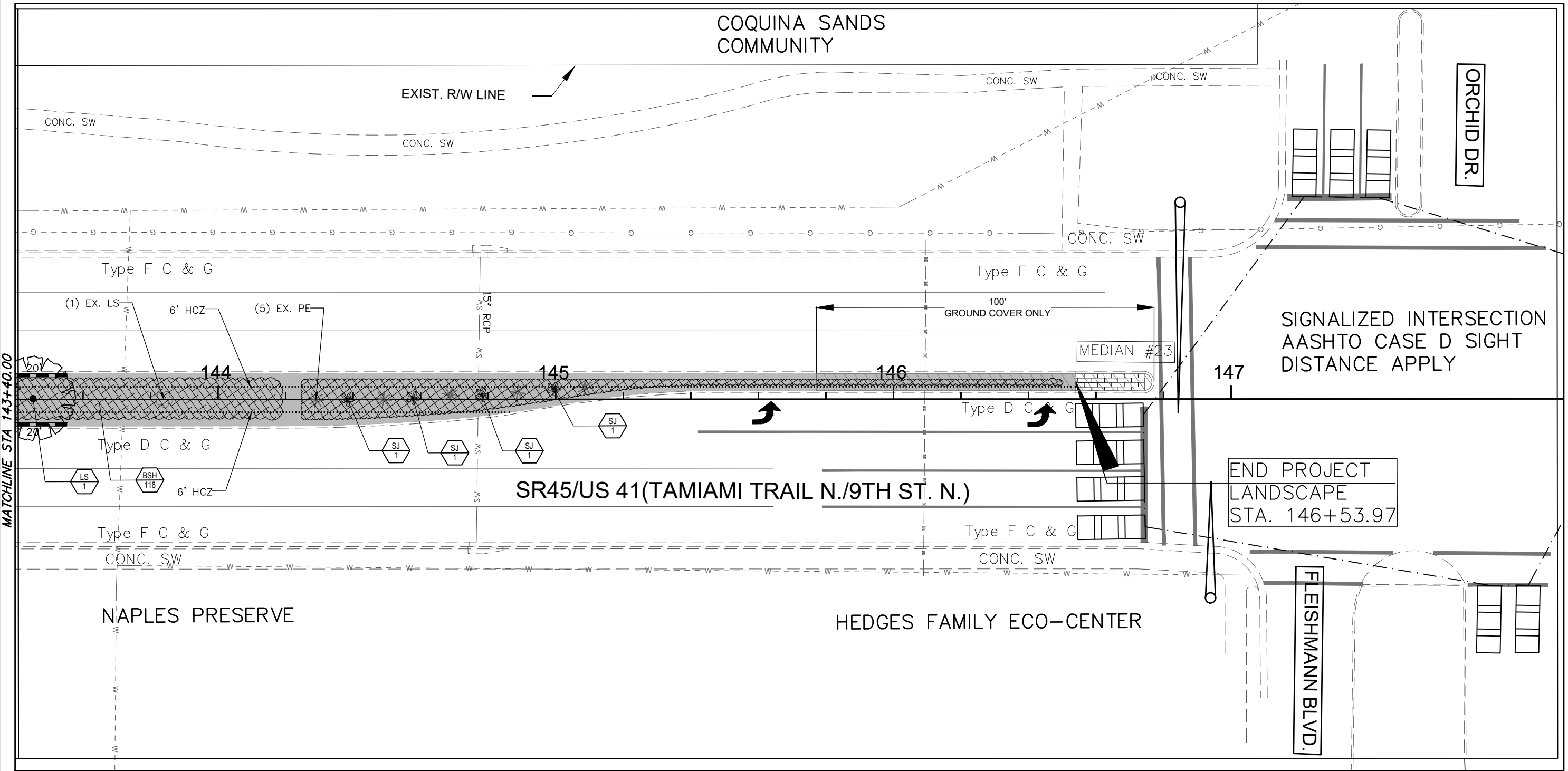
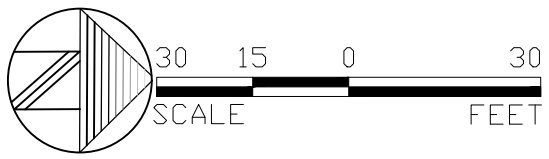
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ROAD NO.	COUNTY	PROJECT ID
SR45	COLLIER	19F32

LANDSCAPE PLAN
PLANTING PLAN (08)

SHEET NO.
LD-14

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SOIL ENHANCEMENT LEGEND

 INDICATES MEDIAN AREAS TO RECEIVE CLEARING AND GRUBBING AND/OR SOIL STRUCTURE IMPROVEMENTS

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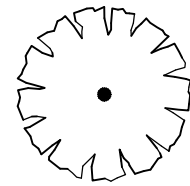
CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT		
ROAD NO.	COUNTY	PROJECT ID
SR45	COLLIER	19F32

LANDSCAPE PLAN PLANTING PLAN (09)	
LD-15	

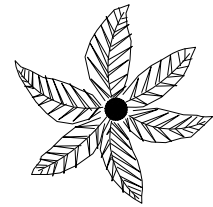
SHEET NO.
LD-15

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LANDSCAPE LEGEND



PROPOSED QUEEN'S CRAPE MYRTLE



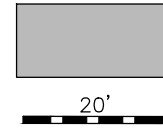
PROPOSED ROYAL PALMS



PROPOSED ALEXANDER PALMS

PROPOSED RASPBERRY BROMELAID

PROPOSED BIRD OF PARADISE



INDICATES MEDIAN AREAS TO RECEIVE CLEARING AND GRUBBING AND/OR SOIL STRUCTURE IMPROVEMENTS

PROPOSED 20 LINEAR FEET OF 18" DEPTH INTERLOCKING RIGID PLASTIC ROOT BARRIER ALONG BACK OF CURB AT LARGE TREE PLANTINGS.



EXISTING PHOENIX ROEBELINII - (PR)

EXISTING PTYCHOSPERMA ELEGANS - (PE)

EXISTING ROYSTONEA ELATA - (RE)



EXISTING LAGERSTROEMIA SPECIOSA - (LS)



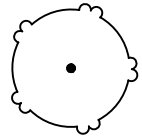
EXISTING HAMELIA NODOSA



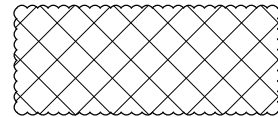
EXISTING SPARTINA BAKERI



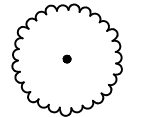
EXISTING FICUS MICROCARPA 'GREEN ISLAND'



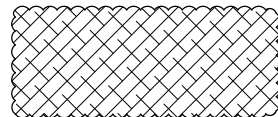
PROPOSED CRAPE MYRTLES



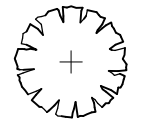
PROPOSED PERENNIAL PEANUT



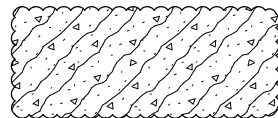
PROPOSED HOLLY TREE



PROPOSED DWARF BOUGAINVILLEA

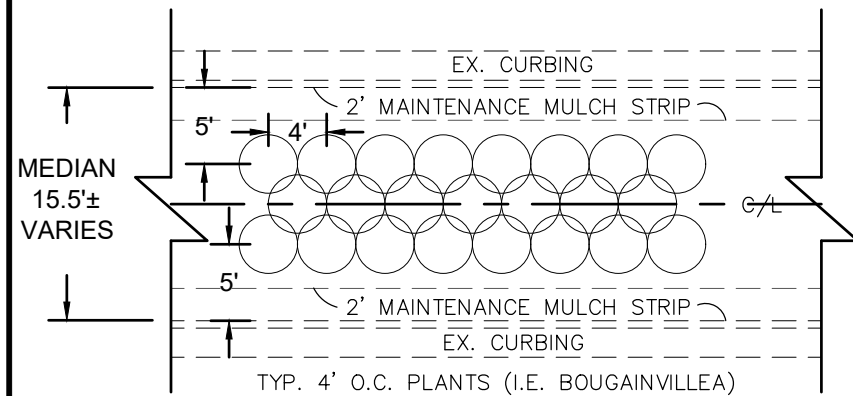


PROPOSED LIGUSTRUM TREE

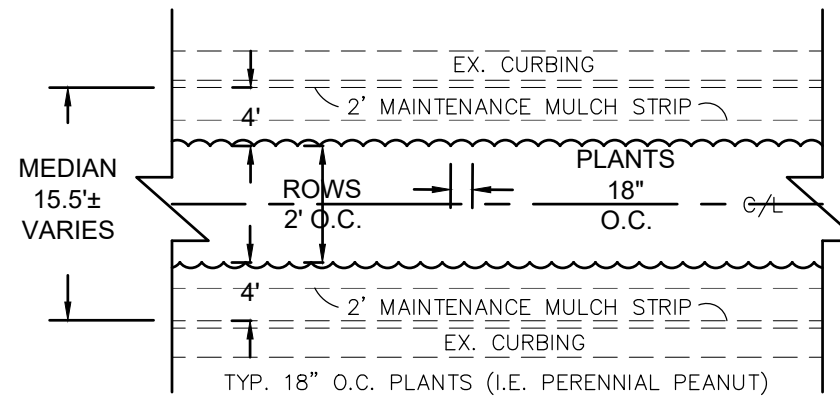


PROPOSED BOUGAINVILLEA 'NEW RIVER'

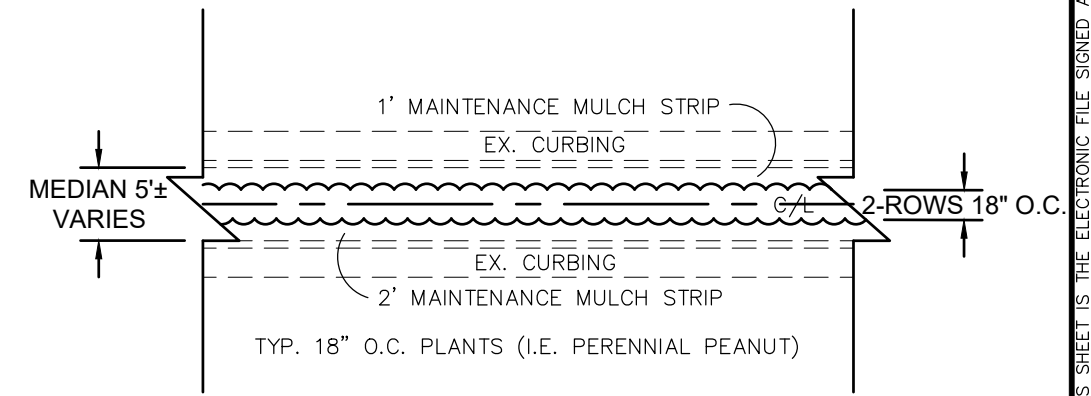
Legend	
	Clear Zone Horizontal Clearance (6' H.C.)
	All Trees & Palms must be offset 6' min. from Travel Lanes
	Limit of Clear Sight Line
	Special Areas Limited to Ground Covers
	Areas Free of sight Obstructions
	Areas of Existing Pavers



TYPICAL MEDIAN SHRUB SPACING & LAYOUT DETAIL NTS



TYPICAL MEDIAN GROUND COVER SPACING & LAYOUT DETAIL NTS



TYPICAL MEDIAN GROUND COVER SPACING & LAYOUT DETAIL NTS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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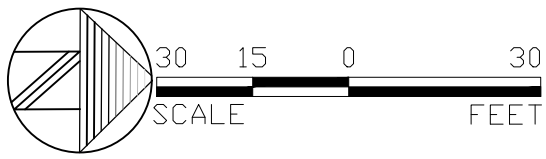
CITY OF NAPLES CITY COUNCIL COMMUNITY SERVICES DEPARTMENT		
ROAD NO.	COUNTY	PROJECT ID
SR45	COLLIER	19F32

LANDSCAPE PLAN
 DETAILS & LEGEND

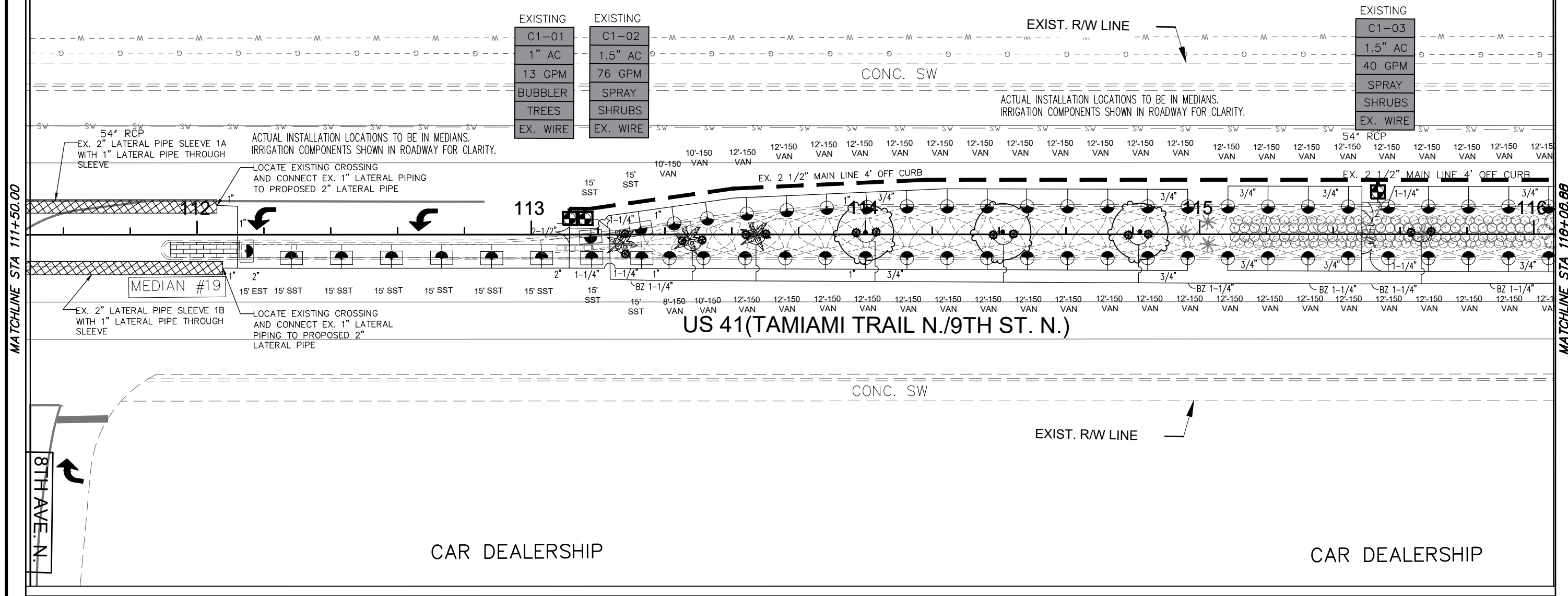
SHEET NO.

LD-16

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NAPLES BEACH HOTEL & GOLF CLUB



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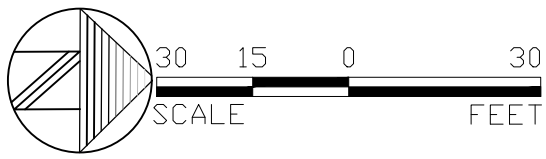
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ROAD NO.	COUNTY	PROJECT ID
SR45	COLLIER	19F32

LANDSCAPE PLAN
IRRIGATION PLAN (02)

SHEET NO.
LD-18

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NAPLES BEACH HOTEL & GOLF CLUB

EXISTING

- C1-04
- 1.5" AC
- 28 GPM
- SPRAY
- SHRUBS
- EX. WIRE

EXIST. R/W LINE

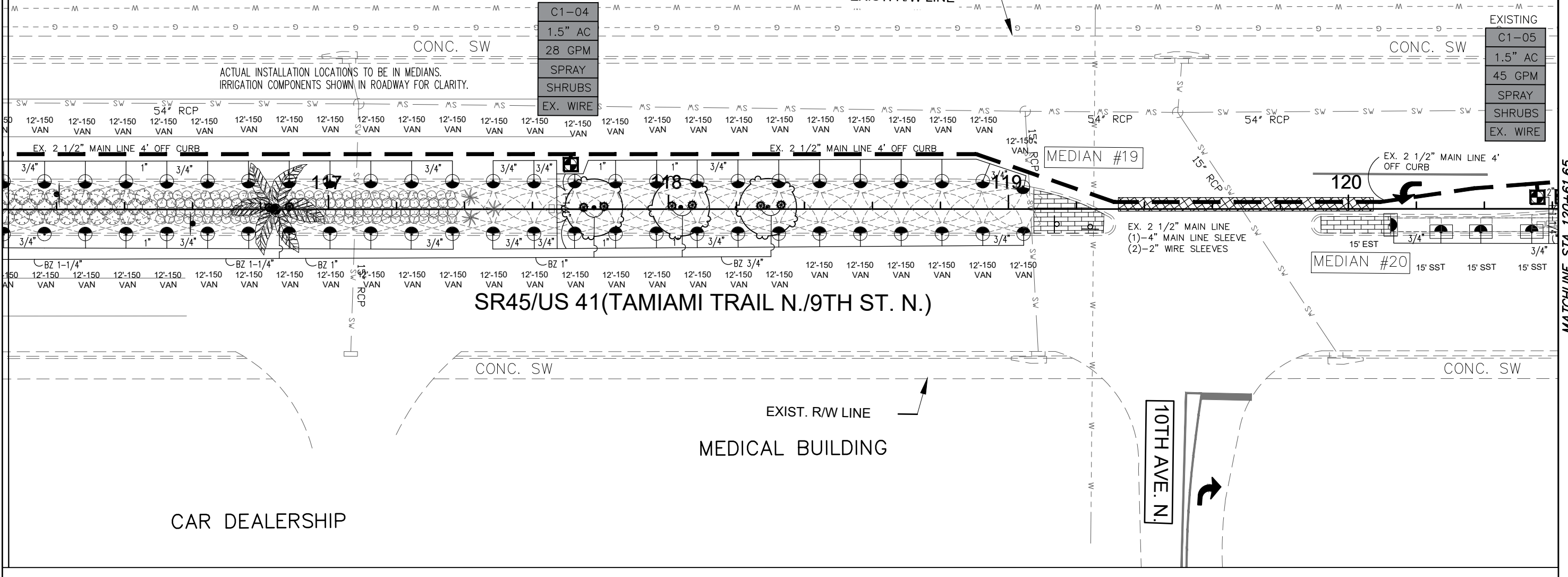
EXISTING

- C1-05
- 1.5" AC
- 45 GPM
- SPRAY
- SHRUBS
- EX. WIRE

ACTUAL INSTALLATION LOCATIONS TO BE IN MEDIANS.
IRRIGATION COMPONENTS SHOWN IN ROADWAY FOR CLARITY.

MATCHLINE STA 116+05.88

MATCHLINE STA 120+61.65



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

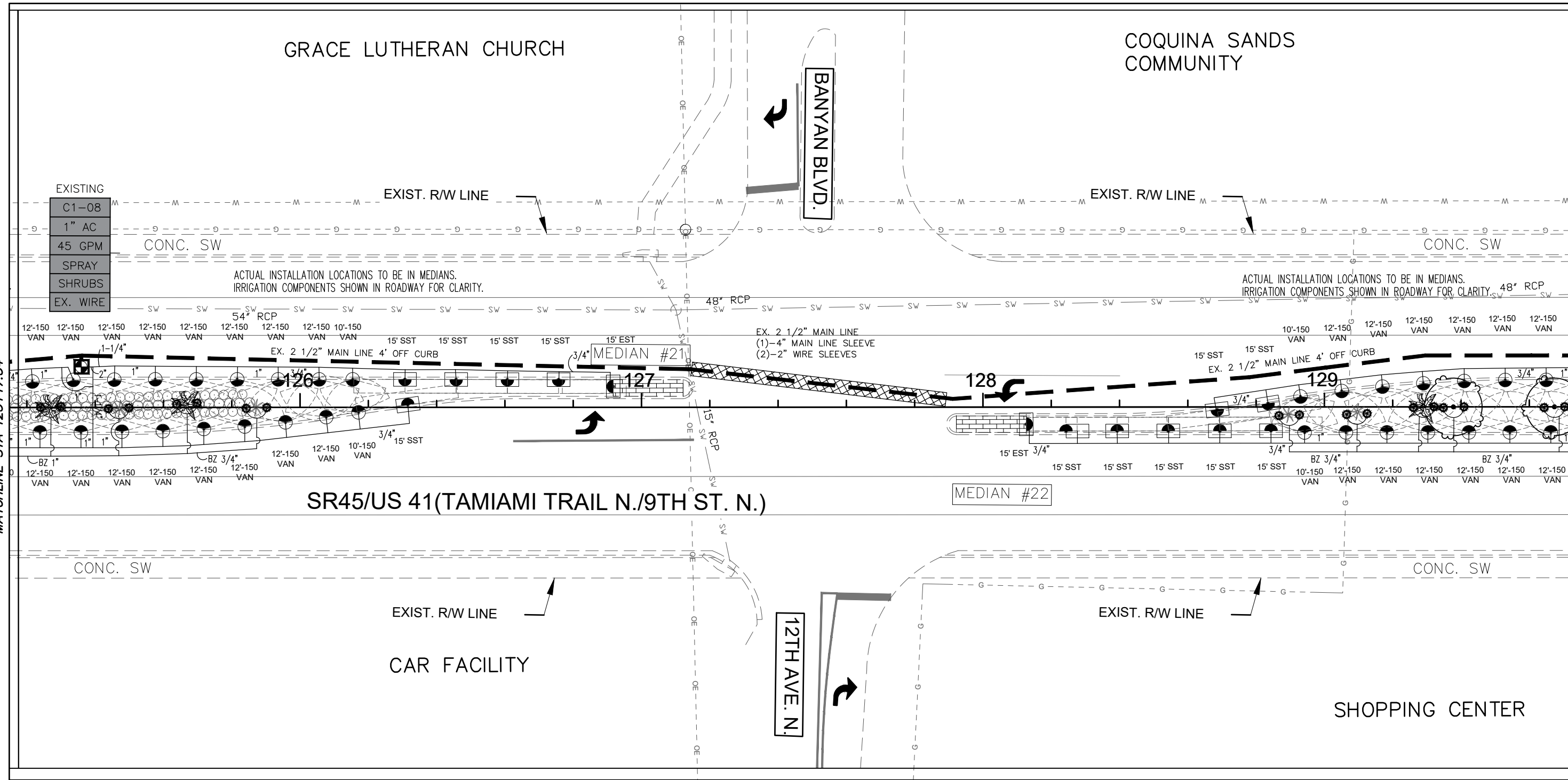
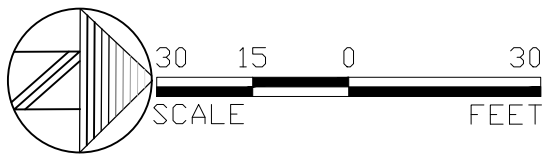
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SR45	COLLIER	19F32

LANDSCAPE PLAN
IRRIGATION PLAN (03)

SHEET NO.
LD-19

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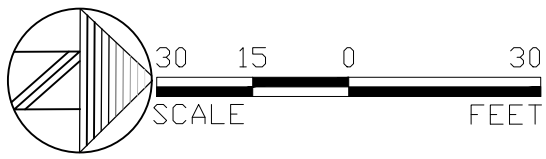
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SR45	COLLIER	19F32

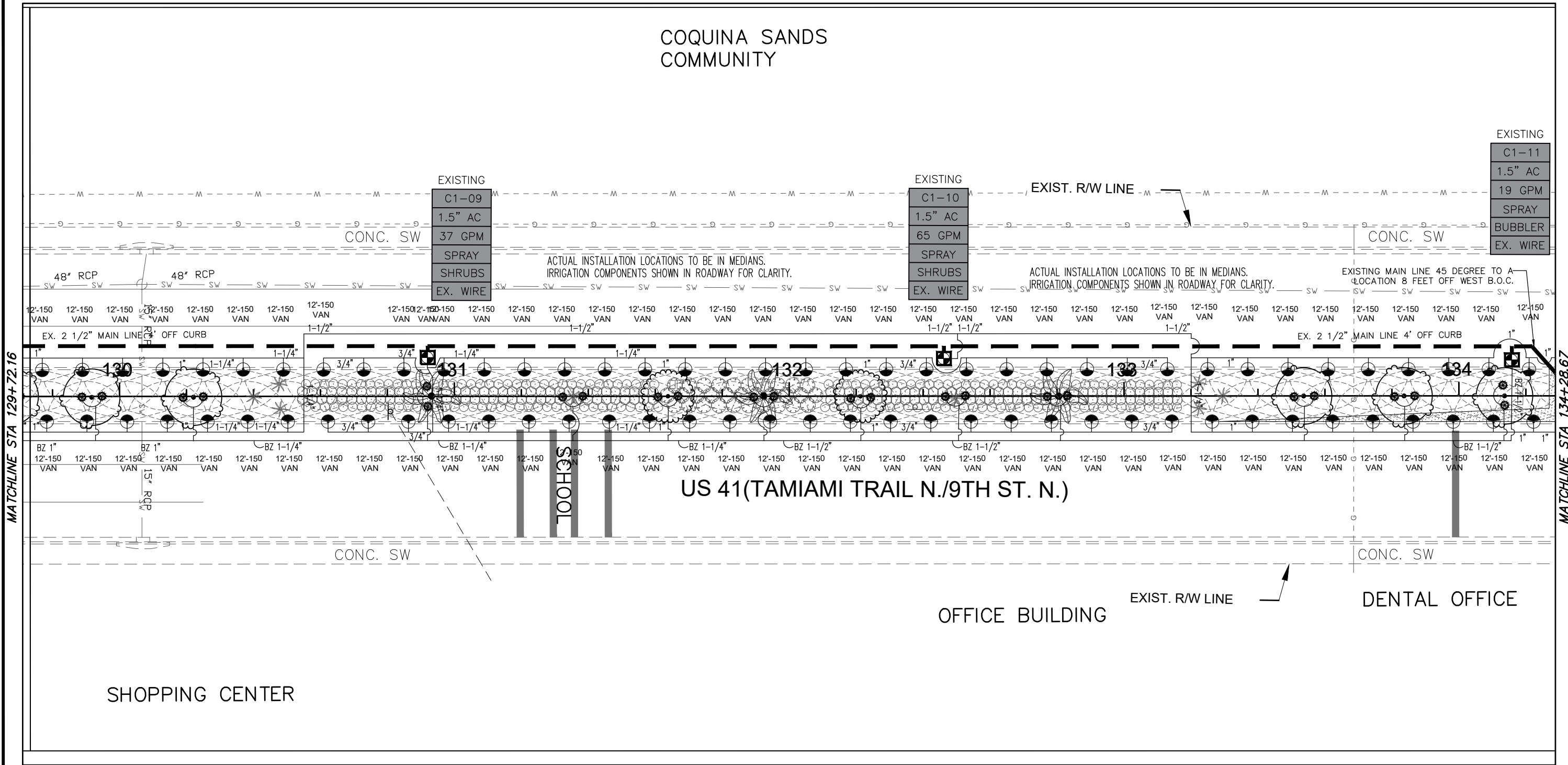
LANDSCAPE PLAN
 IRRIGATION PLAN (05)

SHEET NO.
 LD-21

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COQUINA SANDS
COMMUNITY



MATCHLINE STA 129+72.16

MATCHLINE STA 134+28.67

EXISTING
C1-11
1.5" AC
19 GPM
SPRAY
BUBBLER
EX. WIRE

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

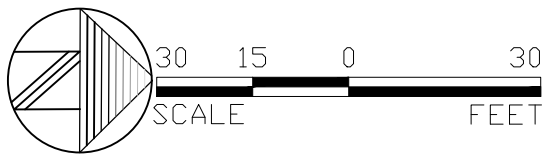
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ROAD NO.	COUNTY	PROJECT ID
SR45	COLLIER	19F32

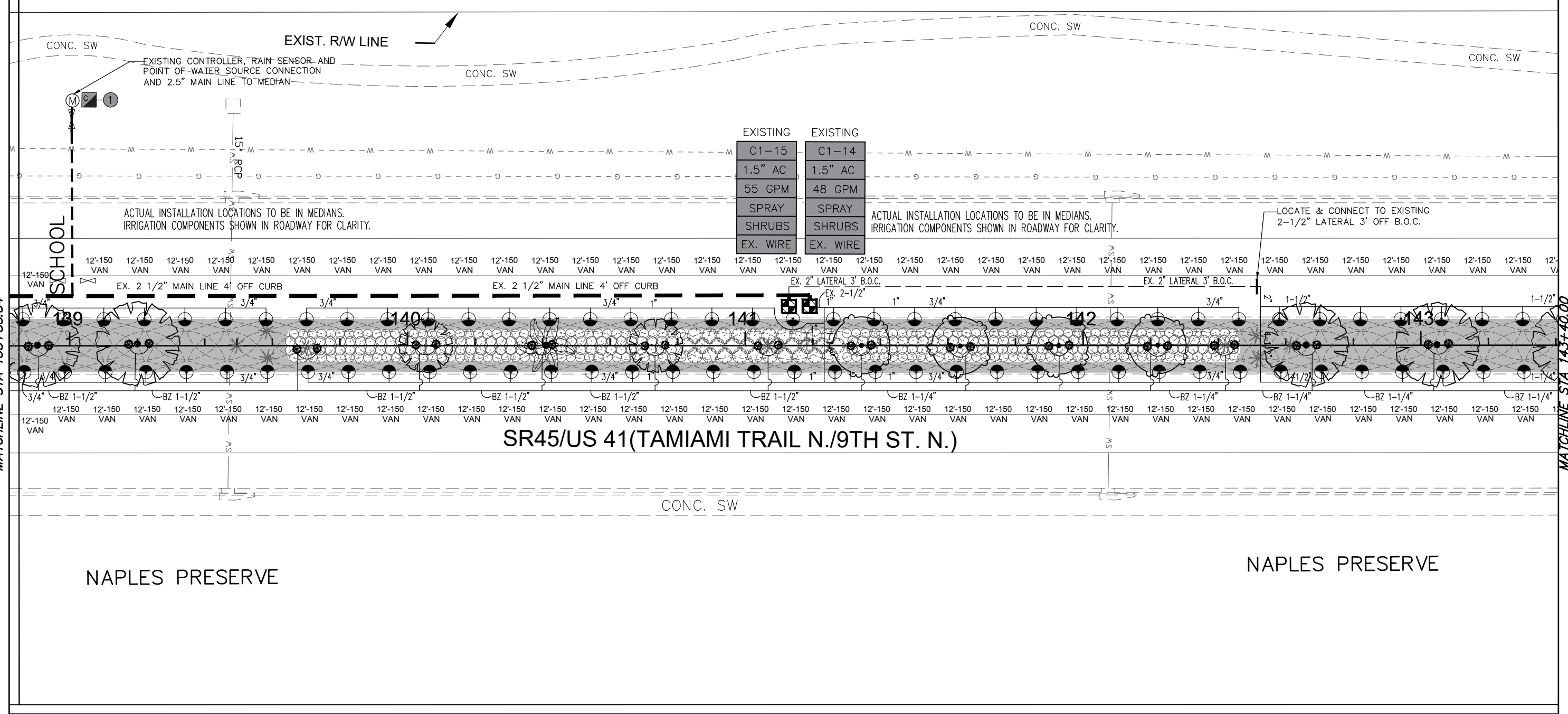
LANDSCAPE PLAN
IRRIGATION PLAN (06)

SHEET NO.
LD-22

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COQUINA SANDS
COMMUNITY



EXISTING	EXISTING
C1-15	C1-14
1.5" AC	1.5" AC
55 GPM	48 GPM
SPRAY	SPRAY
SHRUBS	SHRUBS
EX. WIRE	EX. WIRE

MATCHLINE STA 138+83.34

MATCHLINE STA 143+40.00

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NAPLES PRESERVE

NAPLES PRESERVE

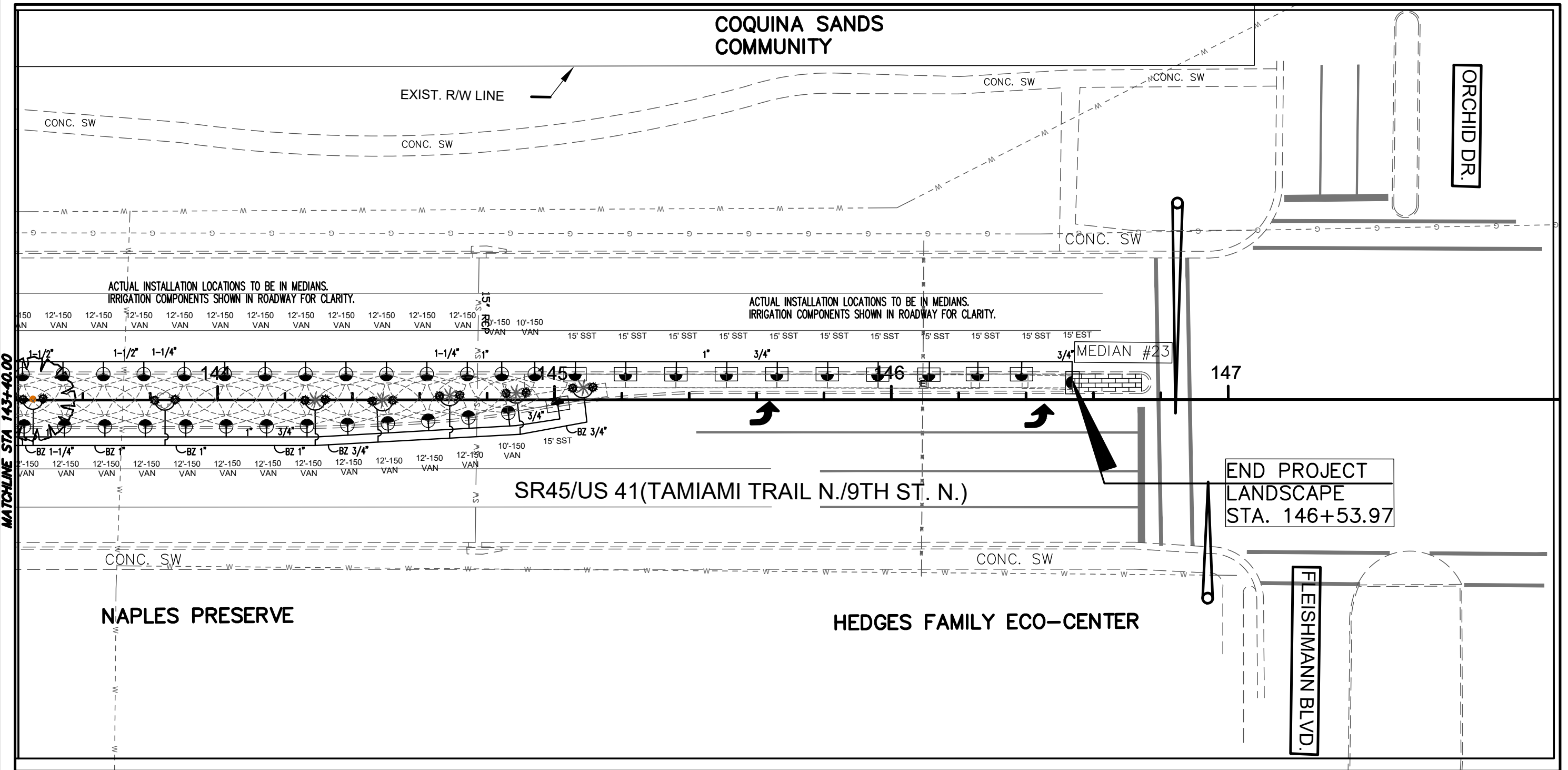
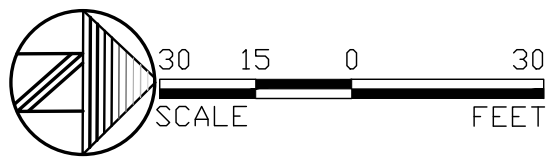
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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LANDSCAPE PLAN
IRRIGATION PLAN (08)

SHEET NO.
LD-24



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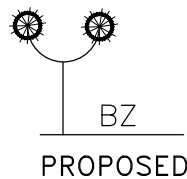
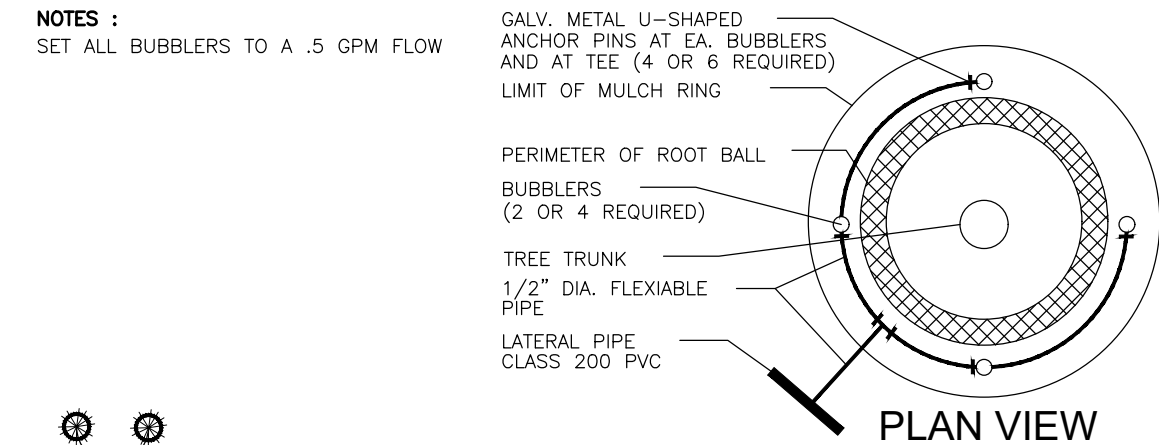
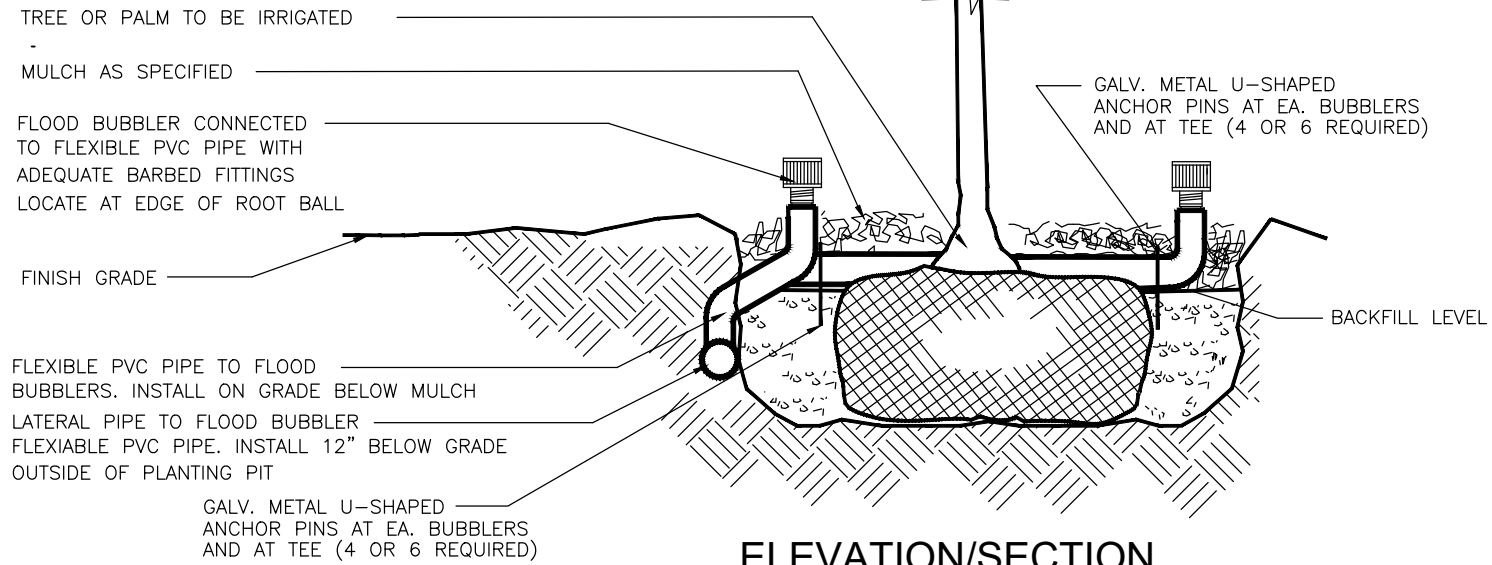
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**LANDSCAPE PLAN
IRRIGATION PLAN (09)**

**SHEET NO.
LD-25**


NOTE :
 REFER TO SCHEDULE FOR BUBBLER QUANTITIES PER TREE TYPES.
 ALL BUBBLERS SHALL BE ZONED SEPARATE FROM OTHER ZONES.
 BUBBLER IS TO BE INSTALLED ADJACENT TO ROOTBALL PERIMETER. DO NOT INSTALL BUBBLER ON TOP OF ROOTBALL NEXT TO TRUNK.

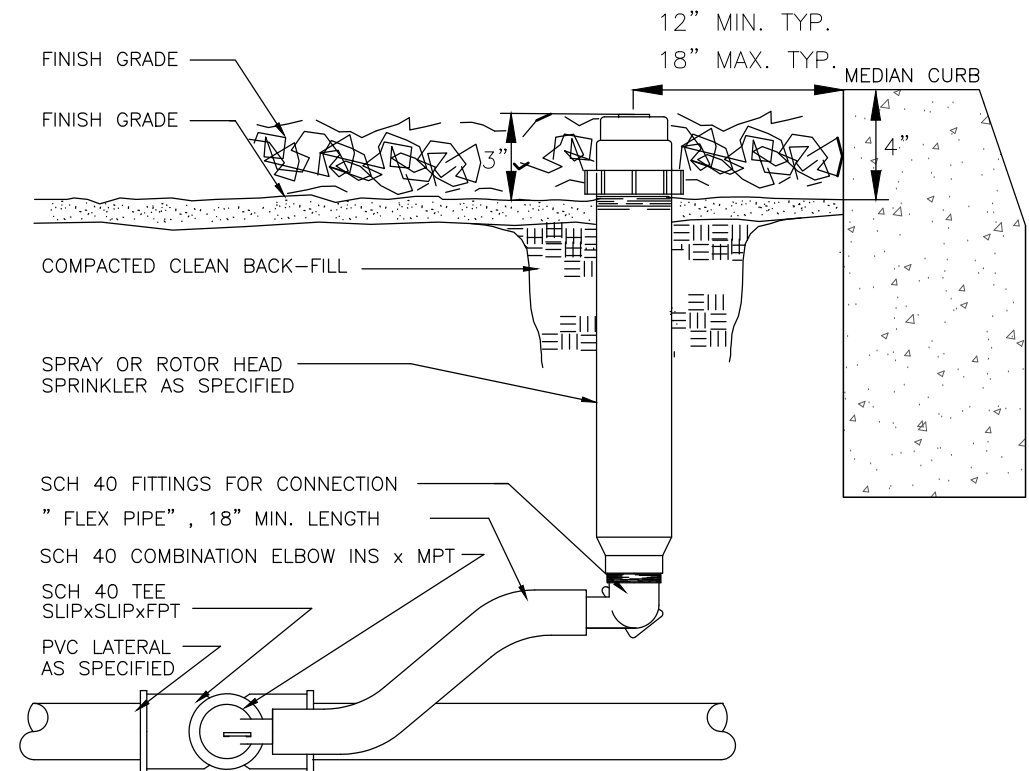


TREE/PALM FLOOD BUBBLERS INSTALLATION DETAIL

N.T.S.

TREE/PALM BUBBLER REFERENCE GUIDE

SYMBOL	DESCRIPTION	BUBBLER QTY. PER TREE	ESTABLISHMENT FLOW RATE
	ROYAL PALMS	(4)	.5 GPM BUBBLER PER TREE.
	ALL OTHER PALMS & TREES	(2)	.5 GPM BUBBLER PER PALM.



NOTES :
 SPRINKLER HEADS SHALL BE PLACED NO CLOSER THAN 12" FROM THE BACK OF CURB AND NO FURTHER THAN 18" FROM BACK OF CURB.



12" HIGH POP UP SPRAY HEAD INSTALLATION DETAIL

N.T.S.

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

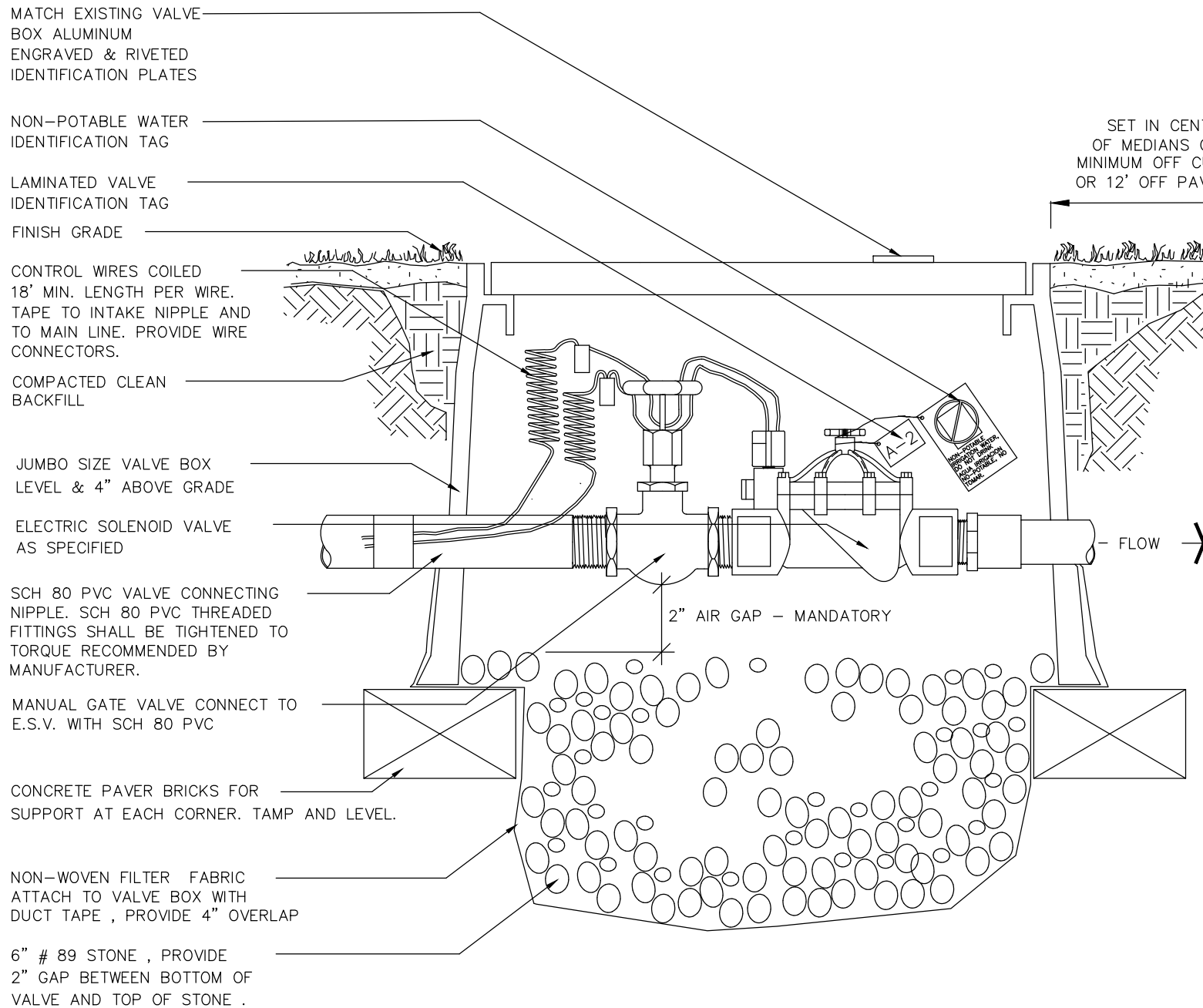
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LANDSCAPE PLAN
 IRRIGATION PLAN (10)

SHEET NO.
LD-26

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- MATCH EXISTING VALVE BOX ALUMINUM ENGRAVED & RIVETED IDENTIFICATION PLATES
- NON-POTABLE WATER IDENTIFICATION TAG
- LAMINATED VALVE IDENTIFICATION TAG
- FINISH GRADE
- CONTROL WIRES COILED 18' MIN. LENGTH PER WIRE. TAPE TO INTAKE NIPPLE AND TO MAIN LINE. PROVIDE WIRE CONNECTORS.
- COMPACTED CLEAN BACKFILL
- JUMBO SIZE VALVE BOX LEVEL & 4" ABOVE GRADE
- ELECTRIC SOLENOID VALVE AS SPECIFIED
- SCH 80 PVC VALVE CONNECTING NIPPLE. SCH 80 PVC THREADED FITTINGS SHALL BE TIGHTENED TO TORQUE RECOMMENDED BY MANUFACTURER.
- MANUAL GATE VALVE CONNECT TO E.S.V. WITH SCH 80 PVC
- CONCRETE PAVER BRICKS FOR SUPPORT AT EACH CORNER. TAMP AND LEVEL.
- NON-WOVEN FILTER FABRIC ATTACH TO VALVE BOX WITH DUCT TAPE, PROVIDE 4" OVERLAP
- 6" # 89 STONE, PROVIDE 2" GAP BETWEEN BOTTOM OF VALVE AND TOP OF STONE.

SET IN CENTER OF MEDIANS OR 5' MINIMUM OFF CURBING OR 12' OFF PAVEMENT

GREEN RPM EPOXY TO TOP OF CURB, 1 PER SIDE OF MEDIAN

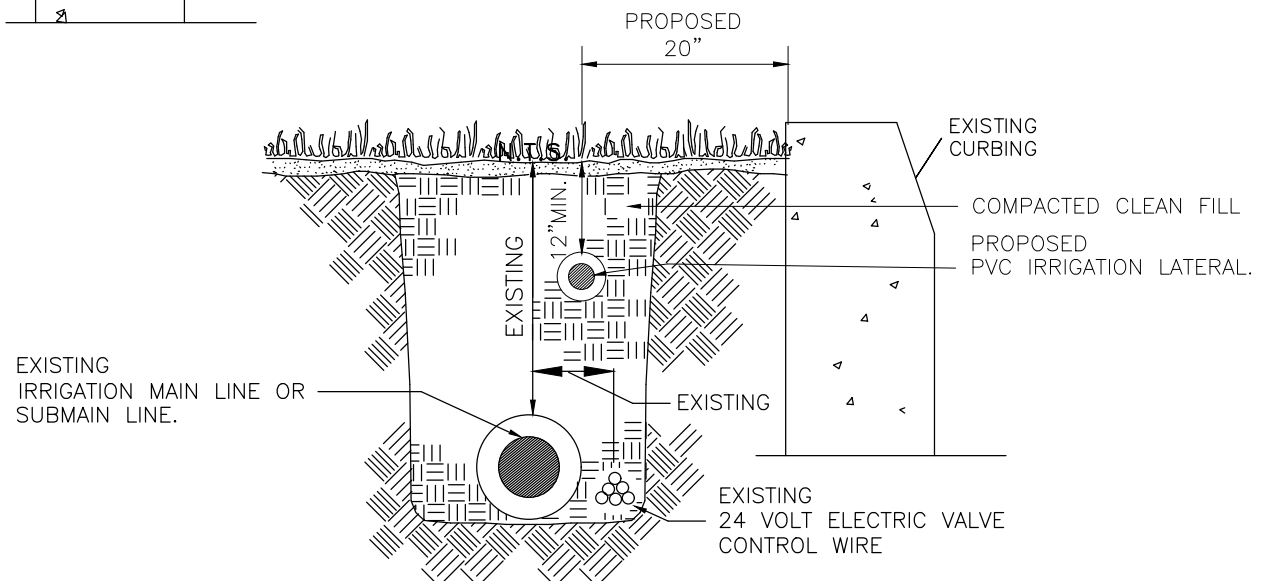
CURBING

2" AIR GAP - MANDATORY

FLOW →

RECOMMENDED FLOW RATE PIPE SIZING SCHEDULE:

Pipe Size:	Gallons Per Minute Flow (GPM)		
	Sch. 160 Pipe	Sch. 40 Pipe	Class 200 Pipe
1/2" dia.	less than 7 GPM	less than 4 GPM	N/A
3/4" dia.	8 to 10 GPM	5 to 8 GPM	less than 10 GPM
1" dia.	11 to 15 GPM	9 to 10 GPM	11 to 16 GPM
1.25" dia.	16 to 25 GPM	11 to 20 GPM	17 to 26 GPM
1.50" dia.	26 to 35 GPM	21 to 30 GPM	26 to 35 GPM
2.0" dia.	36 to 50 GPM	31 to 50 GPM	27 to 55 GPM
2.5" dia.	50 to 80 GPM	51 to 70 GPM	56 to 80 GPM



ALL TRENCHING DEPTHS SHOWN ARE MINIMUM. IN THE EVENT THAT MINIMUM TRENCHING DEPTHS ARE NOT MET, THE TRENCHES SHALL BE RE-EXCAVATED.

DEPTH MEASUREMENTS ARE TO BE DONE FROM FLUSH GRADE TO TOP OF PIPE. PROVIDE A 6" MINIMUM VERTICAL SEPARATION BETWEEN MAIN LINE(S) AND LATERAL LINE(S).

ALL TRENCHES SHALL BE BACKFILLED WITH CLEAN SOIL FREE OF DEBRIS & NOXIOUS WEEDS. TRENCHES SHALL BE COMPACTED TO A 90% STANDARD PROCTOR DENSITY, ASTM D698-78.

TYPICAL ELECTRIC SOLENOID VALVE ASSEMBLY

N.T.S.

TYPICAL TRENCHING DETAIL

N.T.S.



EXISTING

PROPOSED

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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**LANDSCAPE PLAN
IRRIGATION PLAN (11)**

SHEET NO.
LD-27

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SR 45 (US 41) MEDIAN # 18 THRU 23 IRRIGATION SYSTEM TABULATION OF QUANTITIES			
BID / PAY ITEM 570-90	DESCRIPTION	UNITS	QUANTITIES
1	RAINBIRD 1800 SERIES SPRAY SPRINKLERS WITH MPR & VAN ADJUSTABLE SERIES NOZZLES. RADIUS & PATTERN VARIES. MODEL No. 1812-PRS-NPCAP, 12" POP-UP SPRAY SPRINKLERS. INCLUDES PVC PANTONE PURPLE 522C 1120-1220 CLASS 200 SOLVENT WELD LATERAL PIPING FROM ZONE VALV	EA.	485
2	FURNISH & INSTALL: IRRITROL 533 ADJUSTABLE FLOOD BUBBLERS. INCLUDES PVC PANTONE PURPLE 522C 1120-1220 CLASS 200 SOLVENT WELD LATERAL PIPING FROM ZONE VALVES TO AND BETWEEN BUBBLER FLEX PIPING AT TREE LOCATIONS.	EA.	71

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							ROAD NO.	COUNTY	PROJECT ID		LD-29
							SR45	COLLIER	19F32		

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