

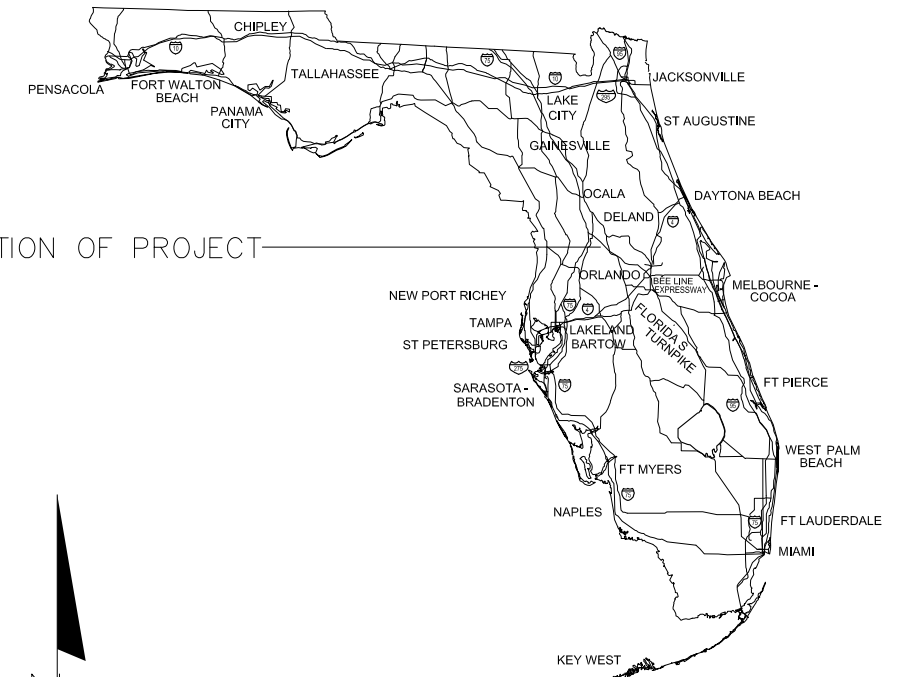
**STATE OF FLORIDA**  
**DEPARTMENT OF TRANSPORTATION**  
**CONTRACT PLANS**

FINANCIAL PROJECT ID 437114-5-52-01

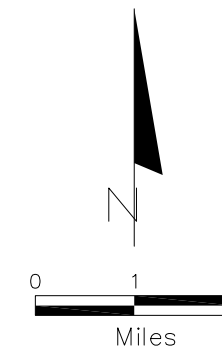
LAKE COUNTY (11580)

COUNTY ROAD NO. 46A

**LANDSCAPE PLANS**



LOCATION OF PROJECT



LANDSCAPE SHOP DRAWINGS TO BE SUBMITTED TO:

JOAN RANDOLPH, P.L.A.  
JCR CONSULTING  
P. O. BOX 941994  
MAITLAND, FLORIDA 32794-1994

PLANS PREPARED BY:  
JCR CONSULTING  
P. O. BOX 941994  
MAITLAND, FLORIDA 32794-1994  
ph (407) 644-5297

Vendor No.: 59-3404331  
Contract No.: C-9A68  
Certificate of Authorization: NA

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

INDEX OF LANDSCAPE PLANS

SHEET NO.	SHEET DESCRIPTION
LD-1	KEY SHEET
LD-2 TO LD-5	TABULATION OF QUANTITIES / PLANT SCHEDULE
LD-6 TO LD-7	LANDSCAPE NOTES
LD-8	LANDSCAPE DETAILS
LD-9	LANDSCAPE PROJECT LAYOUT
LD-10 TO LD-35	LANDSCAPE PLAN
LD-36	MAINTENANCE PLAN

LIST OF REVISED INDEX DRAWINGS

INDEX NO. SHEET NO.

GOVERNING STANDARDS AND SPECIFICATIONS:  
Florida Department of Transportation, 2016 Design Standards and revised Index Drawings as appended herein, and 2016 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents.

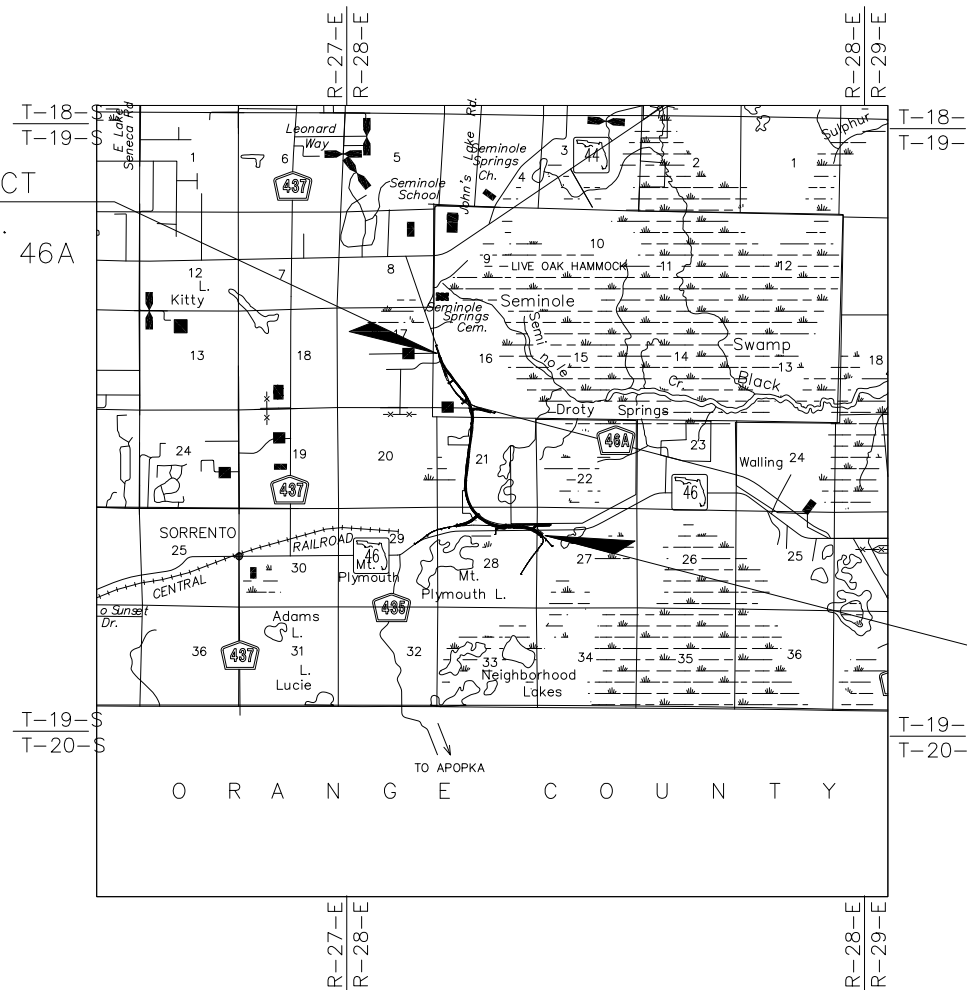
For Design Standards click on the "Design Standards" link at the following web site:  
<http://www.dot.state.fl.us/rddesign/>

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

PHASE IV PLANS UPDATE SUBMITTAL  
NOVEMBER, 2015  
(NOT FOR CONSTRUCTION)

BEGIN PROJECT  
STA. 365+42.  
CL CONST. CR 46A



END PROJECT  
STA. 495+01.82  
CL CONST. CR 46A

PROJECT LENGTH IS BASED ON CL OF CONSTRUCTION

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	12,959.82	2.45
BRIDGES	0	0
NET LENGTH OF PROJECT	12,959.82	2.45
EXCEPTIONS	0	0
GROSS LENGTH OF PROJECT	12,959.82	2.45

FDOT PROJECT MANAGER: MEDHAT HASSAN, P.E.

KEY SHEET REVISIONS	
DATE	DESCRIPTION

LANDSCAPE PLANS  
LANDSCAPE ARCHITECT OF RECORD: JOAN RANDOLPH, R.L.A.  
R.L.A. NO.: # LA0000576

FISCAL YEAR	SHEET NO.
17	LD-1

**TABULATION OF QUANTITIES / PLANT SCHEDULE**

PAY ITEM NO.	PAY SIZE	SYMBOL	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAX. MAINTAIN SIZE	SPACING	REMARKS	NATIVE	UNIT																	TOTAL THIS SHEET		REF. SHEET
											LD-10		LD-11		LD-12		LD-13		LD-14		LD-15		LD-16		PLAN	FINAL			
											PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL			
			MOBILIZATION (1)																				1						
			MAINTENANCE OF TRAFFIC (MOT) (1)																				1						
			SEDIMENT BARRIER (1)																				1						
			INVASIVE, EXOTIC VEGETATION REMOVAL (1)																				1						
			LITTER REMOVAL AND DISPOSAL (1)																				1						
			CLEARING AND GRUBBING (1)																				1						
			PERFORMANCE TURF (1)																										
	STE SEC		<i>Stenotaphrum secundatum</i>	St. Augustine Grass				sod form		SY							577							577					
	MUL-BA		MULCH (1)					SMALL PINE BARK MULCH		CY							16							16					
	MUL-ST		MULCH (1)					PINE STRAW MULCH		CY			36		27										63				
580-1-1	LANDSCAPE COMPLETE		- SMALL PLANTS							LS																			
	SMALL	COR SEL	<i>Cortaderia selloana</i>	Pampas Grass	30" OA	4'	3' OC	30" OA, FULL, 3' OC		EA																			
	SMALL	HAM PAT	<i>Hamelia patens</i>	Firebush	24 OA	4'	3' OC	24 OA, FULL, 3' OC	X	EA																			
	SMALL	NER OLE	<i>Nerium oleander</i>	Petite Pink Oleander	20" OA	4'	3' OC	20" OA, FULL, 3' OC		EA																			
			"Petite Pink"																										
	SMALL	NER RED	<i>Nerium oleander</i> "Red"	Red Oleander	20" OA	5'	3' OC	20" OA, FULL, 3' OC		EA																			
580-1-2	LANDSCAPE COMPLETE		- LARGE PLANTS							LS																			
	LARGE	ACE AUT	<i>Acer rubrum</i>	Autumn Flame Maple	16' H x 8' S	40'	SEE PLANS	4" CAL, CONT OR FG	X	EA				3		13								16					
			"Autumn Flame"																										
	LARGE	ILE CAS	<i>Ilex cassine</i>	Dalhoon Holly	14' H x 6' S	40'	SEE PLANS	3" CAL	X	EA																			
	LARGE	JUN VIR	Southern Red Cedar	Southern Red Cedar	8' H x 4' S	30'	SEE PLANS	FULL TO GROUND	X	EA																			
	LARGE	LAG LAV	<i>Lavender Crape Myrtle</i>	<i>Lavender Crape Myrtle</i>	12' H x 5' S	25'	SEE PLANS	5' CT, MULTI-TRUNK, 5 TRUNKS MIN.		EA																			
	LARGE	LAG WHI	<i>White Crape Myrtle</i>	<i>White Crape Myrtle</i>	12' H x 5' S	25'	SEE PLANS	5' CT, MULTI-TRUNK, 5 TRUNKS MIN.		EA																			
	LARGE	LAG RED	<i>Red Crape Myrtle</i>	<i>Red Crape Myrtle</i>	12' H x 5' S	25'	SEE PLANS	5' CT, MULTI-TRUNK, 5 TRUNKS MIN.		EA																			
	LARGE	LIG JAP	Japanese Privet	Japanese Privet	7' H/S	10'	SEE PLANS	3' CT, MULTI-TRUNK, 5 TRUNKS MIN.		EA						6								6					
	LARGE	MYR CER	<i>Wax Myrtle</i>	<i>Wax Myrtle</i>	8' H x 4' S	15'	SEE PLANS	MULTI-TRUNK	X	EA																			
	LARGE	PIN S	Slash Pine	Slash Pine	7' H x 2' S	50'	SEE PLANS	1.5" CAL, REFER TO LANDSCAPE	X	EA																			
	LARGE	PIN T	Slash Pine	Slash Pine	10' H x 3' S	50'	SEE PLANS	DETAILS FOR ON CENTER PLACEMENTS. 2" CAL, REFER TO LANDSCAPE	X	EA																			
	LARGE	QUE SHU	Shumard Oak	Shumard Oak	20 H x 9' S	50'	SEE PLANS	5" CAL, 6' CT, CONT OR FG	X	EA																			
	LARGE	QUE VIR	Live Oak	Live Oak	20 H x 9' S	50'	SEE PLANS	5" CAL, 6' CT, CONT OR FG	X	EA			5											12					
	LARGE	SAB PAL	Sabal Palm	Sabal Palm	10-28' CT	50'	SEE PLANS	ROOT REGENERATED TRUNK, MIN. 7 FRONDS TO REMAIN, BOOTS TO REMAIN, REFER TO SHEET LD-8 FOR STAGGERING HEIGHTS AND ON CENTER PLACEMENTS.	X	EA						7								16					
	LARGE	TAX S	<i>Taxodium distichum</i>	Autumn Gold Bald Cypress	10' H x 4' S	40'	SEE PLANS	1.5" CAL	X	EA						14		15							29				
	LARGE	TAX T	<i>Taxodium distichum</i>	Autumn Gold Bald Cypress	16' H x 6' S	40'	SEE PLANS	4" CAL	X	EA						8		5							13				
	LARGE	ULM ALA	<i>Ulmus parvifolia</i> "Allee"	Allee Elm	16' H x 6' S	45'	SEE PLANS	4" CAL	X	EA																			

**PAY ITEM NOTES:**

1. PAY ITEM NUMBERS 580-1 (SMALL) AND 580-2 (LARGE) ARE LUMP SUMS. THEY SHALL INCLUDE INDIVIDUAL PLANTS LISTED ABOVE WITH EMBEDDED COSTS TO INCLUDE THE FOLLOWING ITEMS:
  - A. MOBILIZATION;
  - B. MAINTENANCE OF TRAFFIC;
  - C. SEDIMENT BARRIER;
  - D. INVASIVE AND EXOTIC VEGETATION REMOVAL;
  - E. LITTER REMOVAL AND DISPOSAL;
  - F. CLEARING AND GRUBBING;
  - G. PLANT AND INSTALLATION;
  - H. WEED CONTROL FABRIC;
  - I. MULCH AREAS;
  - J. PERFORMANCE TURF; AND
  - K. DISTURBED TURF REPLACEMENT WITH LIKE SPECIES.
2. ST. AUGUSTINE SOD QUANTITIES INDICATED ON THE LANDSCAPE PLANS ARE LOCATED AT THE RED TAIL ENTRANCE MEDIAN ONLY.
3. MULCH AREAS AND QUANTITIES INDICATED ON THE LANDSCAPE PLANS ARE AREAS NOT INCLUDED IN MULCH BEING PROVIDED TO INDIVIDUAL PLANTS. PROVIDE WEED CONTROL FABRIC UNDER THE DESIGNATED LARGE MULCH AREAS IN CALL OUTS.

**LEGEND:**

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>AC - ACRE</li> <li>B&amp;B - BALL AND BURLAP</li> <li>CAL - CALIPER</li> <li>CONT - CONTAINER</li> <li>CT - CLEAR TRUNK</li> <li>EA - EACH</li> <li>FF - FLORIDA FANCY GRADE</li> <li>FG - FIELD GROWN</li> <li>GAL - GALLON</li> <li>H - HEIGHT</li> <li>LF - LINEAR FOOT</li> </ul> | <ul style="list-style-type: none"> <li>LS - LUMP SUM</li> <li>MAINT - MAINTAINED</li> <li>MAX - MAXIMUM</li> <li>MIN - MINIMUM</li> <li>OA - OVERALL</li> <li>QTY - QUANTITY</li> <li>RB - ROOT BALL</li> <li>S - SPREAD</li> <li>S/H - HEIGHT AND SPREAD</li> <li>SY - SQUARE YARD</li> <li>SYM - SYMBOL</li> </ul> |
|--|--|

REVISIONS				prepared by:			STATE OF FLORIDA			<div style="text-align: center;"><b>TABULATION OF QUANTITIES / PLANT SCHEDULE</b></div>	SHEET NO.  LD-2
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DEPARTMENT OF TRANSPORTATION					
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID.			
						CR 46A	LAKE	437114-5-52-01			

\$USER\$

\$DATE\$

\$TIME\$

\$FILE\$

## TABULATION OF QUANTITIES / PLANT SCHEDULE

PAY ITEM NO.	PAY SIZE	SYMBOL	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAX. MAINTAIN SIZE	SPACING	REMARKS	NATIVE	UNIT	LD-17 to LD-23														TOTAL THIS SHEET		REF. SHEET
											LD-17		LD-18		LD-19		LD-20		LD-21		LD-22		LD-23		PLAN	FINAL	
											PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL			
			MOBILIZATION (1)																								
			MAINTENANCE OF TRAFFIC (MOT) (1)																								
			SEDIMENT BARRIER (1)																								
			INVASIVE, EXOTIC VEGETATION REMOVAL (1)																								
			LITTER REMOVAL AND DISPOSAL (1)																								
			CLEARING AND GRUBBING (1)																								
			PERFORMANCE TURF (1)																								
	STE SEC		Stenotaphrum secundatum	St. Augustine Grass				sod form		SY																	
	MUL-BA	MULCH (1)						SMALL PINE BARK MULCH		CY	52		65		37		100								254		
	MUL-ST	MULCH (1)						PINE STRAW MULCH		CY								32		50		30			112		
580-1-1	LANDSCAPE COMPLETE		- SMALL PLANTS							LS																	
	SMALL COR SEL		Cortaderia selloana	Pampas Grass	30" OA	4'	3' OC	30" OA, FULL, 3' OC		EA	10		25				12								47		
	SMALL HAM PAT		Hamelia patens	Firebush	24 OA	4'	3' OC	24 OA, FULL, 3' OC	X	EA	102		125				74								301		
	SMALL NER OLE		Nerium oleander	Petite Pink Oleander	20" OA	4'	3' OC	20" OA, FULL, 3' OC		EA	48		31				93								172		
			"Petite Pink"																								
	SMALL NER RED		Nerium oleander "Red"	Red Oleander	20" OA	5'	3' OC	20" OA, FULL, 3' OC		EA							123								123		
580-1-2	LANDSCAPE COMPLETE		- LARGE PLANTS							LS																	
	LARGE ACE AUT		Acer rubrum	Autumn Flame Maple	16' H x 8' S	40'	SEE PLANS	4" CAL, CONT OR FG	X	EA							11		8		6				25		
			"Autumn Flame"																								
	LARGE ILE CAS		Ilex cassine	Dalhoon Holly	14' H x 6' S	40'	SEE PLANS	3" CAL	X	EA	2		8				5								15		
	LARGE JUN VIR		Southern Red Cedar	Southern Red Cedar	8' H x 4' S	30'	SEE PLANS	FULL TO GROUND	X	EA	5		5												10		
	LARGE LAG LAV		Lavender Crape Myrtle	Lavender Crape Myrtle	12' H x 5' S	25'	SEE PLANS	5' CT, MULTI-TRUNK, 5 TRUNKS MIN.		EA			10		14										24		
	LARGE LAG WHT		White Crape Myrtle	White Crape Myrtle	12' H x 5' S	25'	SEE PLANS	5' CT, MULTI-TRUNK, 5 TRUNKS MIN.		EA							6								6		
	LARGE LAG RED		Red Crape Myrtle	Red Crape Myrtle	12' H x 5' S	25'	SEE PLANS	5' CT, MULTI-TRUNK, 5 TRUNKS MIN.		EA	9														9		
	LARGE LIG JAP		Japanese Privet	Japanese Privet	7' H/S	10'	SEE PLANS	3' CT, MULTI-TRUNK, 5 TRUNKS MIN.		EA																	
	LARGE MYR CER		Wax Myrtle	Wax Myrtle	8' H x 4' S	15'	SEE PLANS	MULTI-TRUNK	X	EA	8		3		15		11								37		
	LARGE PIN S		Slash Pine	Slash Pine	7' H x 2' S	50'	SEE PLANS	1.5" CAL, REFER TO LANDSCAPE	X	EA																	
								DETAILS FOR ON CENTER PLACEMENTS.																			
	LARGE PIN T		Slash Pine	Slash Pine	10' H x 3' S	50'	SEE PLANS	2" CAL, REFER TO LANDSCAPE	X	EA																	
								DETAILS FOR ON CENTER PLACEMENTS.																			
	LARGE QUE SHU		Shumard Oak	Shumard Oak	20 H x 9' S	50'	SEE PLANS	5" CAL, 6' CT, CONT OR FG	X	EA	3						6		3						12		
	LARGE QUE VIR		Live Oak	Live Oak	20 H x 9' S	50'	SEE PLANS	5" CAL, 6' CT, CONT OR FG	X	EA	8		5				5		3						21		
	LARGE SAB PAL		Sabal Palm	Sabal Palm	10-28' CT	50'	SEE PLANS	ROOT REGENERATED TRUNK, MIN. 7	X	EA	9		16				33								58		
								FRONDS TO REMAIN, BOOTS TO REMAIN, REFER TO SHEET LD-8 FOR STAGGERING HEIGHTS AND ON CENTER PLACEMENTS.																			
	LARGE TAX S		Taxodium distichum	Autumn Gold Bald Cypress	10' H x 4' S	40'	SEE PLANS	1.5" CAL	X	EA							14		20		13				47		
	LARGE TAX T		Taxodium distichum	Autumn Gold Bald Cypress	16' H x 6' S	40'	SEE PLANS	4" CAL	X	EA							7		10		5				22		
	LARGE ULM ALA		Ulmus parvifolia "Allee"	Allee Elm	16' H x 6' S	45'	SEE PLANS	4" CAL	X	EA	3		5												8		

LEGEND: AC - ACRE CAL - CALIPER OA - OVERALL LS - LUMP SUM EA - EACH MAX - MAXIMUM FF - FLORIDA FANCY GRADE GAL - GALLON	H - HEIGHT S - SPREAD S/H - HEIGHT AND SPREAD B&B - BALL AND BURLAP MAINT - MAINTAINED SYM - SYMBOL MIN - MINIMUM	QTY - QUANTITY LF - LINEAR FOOT CT - CLEAR TRUNK RB - ROOT BALL SY - SQUARE YARD CONT - CONTAINER FG - FIELD GROWN
---	---	--

REVISIONS						prepared by: <b>JCR CONSULTING</b> P.O. BOX 941994 MAITLAND, FLORIDA 32794 Ph (407) 644-5297 Fax (407) 644-3274	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>TABULATION OF QUANTITIES / PLANT SCHEDULE</b>	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID.		
						CR 46A	LAKE	437114-5-52-01	LD-3		



### TABULATION OF QUANTITIES / PLANT SCHEDULE

PAY ITEM NO.	PAY SIZE	SYMBOL	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAX. MAINTAIN SIZE	SPACING	REMARKS	NATIVE	UNIT											TOTAL THIS SHEET		TOTAL PROJECT		REF. SHEET		
											LD-31		LD-32		LD-33		LD-34		LD-35				PLAN	FINAL		PLAN	FINAL
											PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL		PLAN	FINAL
			MOBILIZATION (1)																								
			MAINTENANCE OF TRAFFIC (MOT) (1)																								
			SEDIMENT BARRIER (1)																								
			INVASIVE, EXOTIC VEGETATION REMOVAL (1)																								
			LITTER REMOVAL AND DISPOSAL (1)																								
			CLEARING AND GRUBBING (1)																								
			PERFORMANCE TURF (1)																								
	STE SEC		Stenotaphrum secundatum	St. Augustine Grass				sod form		SY															577		
	MUL-BA	MULCH (1)						SMALL PINE BARK MULCH		CY		15			8									23	388		
	MUL-ST	MULCH (1)						PINE STRAW MULCH		CY	18	36	34		21	31								140	371		
580-1-1	LANDSCAPE COMPLETE	SMALL PLANTS								LS															1		
	SMALL COR SEL	Cortaderia selloana	Pampas Grass		30" OA	4'	3' OC	30" OA, FULL, 3' OC		EA															47		
	SMALL HAM PAT	Hamelia patens	Firebush		24 OA	4'	3' OC	24 OA, FULL, 3' OC	X	EA															301		
	SMALL NER OLE	Nerium oleander	Petite Pink Oleander		20" OA	4'	3' OC	20" OA, FULL, 3' OC		EA															172		
		"Petite Pink"																									
	SMALL NER RED	Nerium oleander "Red"	Red Oleander		20" OA	5'	3' OC	20" OA, FULL, 3' OC		EA															123		
580-1-2	LANDSCAPE COMPLETE	LARGE PLANTS								LS															1		
	LARGE ACE AUT	Acer rubrum	Autumn Flame Maple		16' H x 8' S	40'	SEE PLANS	4" CAL, CONT OR FG	X	EA	3	5	3	7	3									21	72		
		"Autumn Flame"																									
	LARGE ILE CAS	Ilex cassine	Dalhoon Holly		14' H x 6' S	40'	SEE PLANS	3" CAL	X	EA															15		
	LARGE JUN VIR	Southern Red Cedar	Southern Red Cedar		8' H x 4' S	30'	SEE PLANS	FULL TO GROUND	X	EA		10	9	10	8									37	47		
	LARGE LAG LAV	Lavender Crape Myrtle	Lavender Crape Myrtle		12' H x 5' S	25'	SEE PLANS	5' CT, MULTI-TRUNK, 5 TRUNKS MIN.		EA															24		
	LARGE LAG WHT	White Crape Myrtle	White Crape Myrtle		12' H x 5' S	25'	SEE PLANS	5' CT, MULTI-TRUNK, 5 TRUNKS MIN.		EA															31		
	LARGE LAG RED	Red Crape Myrtle	Red Crape Myrtle		12' H x 5' S	25'	SEE PLANS	5' CT, MULTI-TRUNK, 5 TRUNKS MIN.		EA															24		
	LARGE LIG JAP	Japanese Privet	Japanese Privet		7' H/S	10'	SEE PLANS	3' CT, MULTI-TRUNK, 5 TRUNKS MIN.		EA															6		
	LARGE MYR CER	Wax Myrtle	Wax Myrtle		8' H x 4' S	15'	SEE PLANS	MULTI-TRUNK	X	EA															37		
	LARGE PIN S	Slash Pine	Slash Pine		7' H x 2' S	50'	SEE PLANS	1.5" CAL, REFER TO LANDSCAPE	X	EA															15		
								DETAILS FOR ON CENTER PLACEMENTS.																			
	LARGE PIN T	Slash Pine	Slash Pine		10' H x 3' S	50'	SEE PLANS	2" CAL, REFER TO LANDSCAPE	X	EA															14		
								DETAILS FOR ON CENTER PLACEMENTS.																			
	LARGE QUE SHU	Shumard Oak	Shumard Oak		20 H x 9' S	50'	SEE PLANS	5" CAL, 6' CT, CONT OR FG	X	EA				8	3	6								17	29		
	LARGE QUE VIR	Live Oak	Live Oak		20 H x 9' S	50'	SEE PLANS	5" CAL, 6' CT, CONT OR FG	X	EA				9	5	12								31	76		
	LARGE SAB PAL	Sabal Palm	Sabal Palm		10-28' CT	50'	SEE PLANS	ROOT REGENERATED TRUNK, MIN. 7	X	EA		14			8									22	176		
								FRONDS TO REMAIN, BOOTS TO REMAIN, REFER TO SHEET LD-8 FOR STAGGERING HEIGHTS AND ON CENTER PLACEMENTS.																			
	LARGE TAX S	Taxodium distichum	Autumn Gold Bald Cypress		10' H x 4' S	40'	SEE PLANS	1.5" CAL	X	EA	7	18	15	13	17									70	173		
		"Autumn Gold"																									
	LARGE TAX T	Taxodium distichum	Autumn Gold Bald Cypress		16' H x 6' S	40'	SEE PLANS	4" CAL	X	EA	4	9	7	3	5									28	74		
		"Autumn Gold"																									
	LARGE ULM ALA	Ulmus parvifolia "Allee"	Allee Elm		16' H x 6' S	45'	SEE PLANS	4" CAL	X	EA															8		

LEGEND: AC - ACRE  
CAL - CALIPER  
OA - OVERALL  
LS - LUMP SUM  
EA - EACH  
MAX - MAXIMUM  
FF - FLORIDA FANCY GRADE  
GAL - GALLON

H - HEIGHT  
S - SPREAD  
S/H - HEIGHT AND SPREAD  
B&B - BALL AND BURLAP  
MAINT - MAINTAINED  
SYM - SYMBOL  
MIN - MINIMUM

QTY - QUANTITY  
LF - LINEAR FOOT  
CT - CLEAR TRUNK  
RB - ROOT BALL  
SY - SQUARE YARD  
CONT - CONTAINER  
FG - FIELD GROWN

REVISIONS			DESCRIPTION			DATE	BY

prepared by:  
**JCR CONSULTING**  
P.O. BOX 941994  
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Ph (407) 644-5297 Fax (407) 644-3274

**JOAN RANDOLPH, R.L.A.**  
FLORIDA REG. RLA #0000576

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID.
CR 46A	LAKE	437114-5-52-01

**TABULATION OF QUANTITIES / PLANT SCHEDULE**

SHEET NO.  
**LD-5**

\$USER\$      \$DATE\$      \$TIME\$      \$FILE\$

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23-003, F.A.C.

NATURE OF CONSTRUCTION ACTIVITIES:

1. WORK INCLUDES: MOB, MOT, SEDIMENT BARRIERS, CLEARING AND GRUBBING (INCLUDES INVASIVE-EXOTIC VEGETATION REMOVAL), LITTER REMOVAL, AND LANDSCAPE INSTALLATION (INCLUDES SOD AND MULCH).
2. THE WORK OF THIS CONTRACT IS TO TAKE PLACE WITHIN THE RIGHTS OF WAY OF FLORIDA DEPARTMENT OF TRANSPORTATION. ACCORDINGLY, THE CONTRACTOR SHALL ADHERE TO ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES, POLICIES AND CODES. ANY CHANGES TO THE APPROVED CONSTRUCTION PLANS SHALL REQUIRE WRITTEN APPROVAL BY THE ENGINEER.
3. THIS PROJECT WILL BE MAINTAINED BY FDOT AFTER ESTABLISHMENT PERIOD.
4. THERE ARE NO WETLAND OR SURFACE WATERS WITHIN THE PROJECT LIMITS THAT WILL BE AFFECTED BY WORK TO BE DONE ON THIS PROJECT. MAIN RECEIVING WATERS ARE VIA SWALES, DITCHES AND DRY BOTTOM RETENTION AREA CENTRAL TO THE SITE.

SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

1. THE FOLLOWING SEQUENCE OF MAJOR ACTIVITIES SHALL BE FOLLOWED UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL TO OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER. INSTALL PERIMETER CONTROLS BEFORE BEGINNING WORK. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.
  - A. SEDIMENT CONTROL;
  - B. CLEARING AND GRUBBING;
  - C. INVASIVE AND EXOTIC VEGETATION REMOVAL; AND
  - D. LANDSCAPE INSTALLATION.

AREA OF SOIL DISTURBANCE:

1. INCLUDES REMOVAL OF INVASIVE EXOTICS, CLEARING AND GRUBBING WITHIN EXISTING TREE CANOPY AREAS AND INSTALLATION ASSOCIATED WITH NEW LANDSCAPE PLANTINGS.

SUBMITTALS:

1. UNIT PRICE BREAKDOWN FOR ALL MATERIALS AT THE PRE-CONSTRUCTION MEETING.
2. WATERING SCHEDULE DURING INSTALLATION AND ESTABLISHMENT PERIODS. PRELIMINARY SCHEDULE SHALL BE PROVIDED AT PRE-CONSTRUCTION MEETING. SCHEDULE SHALL ADDRESS APPLICATION AT TIMES OF HEAVY RAINFALL AND DROUGHT PERIODS.
3. LIST OF NURSERIES WHERE PLANTS ARE TAGGED FOR THE PROJECT, INCLUDING CONTACT INFORMATION AND LOCATION TO ENGINEER PRIOR TO PURCHASE. TAG A MINIMUM OF TWO PLANTS OF EACH SPECIES WITH SHIPMENT STATING BOTANICAL AND COMMON NAME OF THE PLANTS.
4. LETTER FROM SUPPLY NURSERY CERTIFYING PLANT SPECIES BEING DELIVERED ARE AS SPECIFIED AND PURCHASED FROM FLORIDA BASED NURSERYMAN STOCK.
5. PRODUCT CUT SHEETS, SAMPLES OR MATERIAL MAKE UP OF ALL MATERIALS AND PRODUCTS SPECIFIED TO ENGINEER PRIOR TO DELIVERY TO SITE, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
  - A. SOIL MIX;
  - B. SOIL AMENDMENTS;
  - C. FERTILIZER;
  - D. PRE-EMERGENT HERBICIDE;
  - E. WEED CONTROL FABRIC;
  - F. MULCH AND;
  - G. SUBMIT MANUFACTURER'S LABELS TO ENGINEER THAT PRODUCTS INSTALLED MATCH CONTRACT DOCUMENTS.
  - H. SATISFACTORY EVIDENCE THAT SOIL AMENDMENTS HAVE BEEN PURCHASED AND UTILIZED PRIOR TO PROCEEDING WITH PLANT INSTALLATION.
  - I. METHODOLOGY FOR VEGETATION REMOVAL TO THE ENGINEER.
6. ESTABLISHMENT PLAN (TO BE ACCEPTED BY FDOT 45 DAYS PRIOR TO COMPLETION OF INSTALLATION.)
7. DURING ESTABLISHMENT PERIOD:
  - A. LANDSCAPE MONTHLY INSPECTION FORM - CERTIFIED (PREPARED BY THE CONTRACTOR).
  - B. LANDSCAPE QUARTERLY INSPECTION REPORT - SIGNED AND SEALED (PREPARED BY REGISTERED LANDSCAPE ARCHITECT.)

GENERAL LANDSCAPE NOTES:

1. THE LOCATIONS OF PLANTS AS SHOWN ON THESE PLANS ARE APPROXIMATE. THE FINAL LOCATIONS MAY BE ADJUSTED TO ACCOMMODATE UNFORESEEN FIELD CONDITIONS, TO COMPLY WITH SAFETY SETBACKS, UTILITY OFFSETS, SIGNAGE, ETC. FLAG ALL PLANT LOCATIONS AND BED LINES FOR THE ENGINEER'S APPROVAL PRIOR TO PLANTING. ALL PERMITS REQUIRED AS PART OF THIS PROJECT SHALL BE THE RESPONSIBILITY TO PREPARE, PROCESS AND OBTAIN APPROVALS BY THE CONTRACTOR.
2. UTILITY INFORMATION SHOWN MAY NOT ACCURATELY DEPICT EXACT LOCATIONS. ALL UTILITIES SHALL BE FIELD VERIFIED PRIOR TO ANY INSTALLATION OR EXCAVATION TO DETERMINE LOCATIONS. IF LANDSCAPE MATERIALS ARE IN CONFLICT WITH ANY UTILITY, NOTIFY THE ENGINEER IMMEDIATELY FOR ADJUSTMENT TO THE LANDSCAPE PLACEMENT(S).
3. THE CONTRACTOR SHALL EXERCISE EXTREME CARE WHILE EXCAVATING NEAR ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO EXISTING UTILITIES CAUSED AS A RESULT OF THE WORK OF THIS CONTRACT AT HIS SOLE COST.
4. LANDSCAPING SHALL NOT CONFLICT WITH CLEAR SIGHT TO ALL SIGNS LOCATIONS. ANY SIGNS DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT. NOTIFY THE ENGINEER OF ANY CONFLICTS. IN THE EVENT OF A CONFLICT THE LANDSCAPE PLANTING WILL BE ADJUSTED PER THE ENGINEER'S DIRECTION AND NOT THE SIGN(S).
5. ALL CATEGORY #1 INVASIVE, EXOTIC VEGETATION AS PER THE FLORIDA EXOTIC PLANT PEST COUNCIL'S (FLEPPC) LATEST LIST WILL BE REMOVED FROM THE PROJECT LIMITS FOR THE DURATION OF THE ESTABLISHMENT PERIOD, WITHOUT DAMAGING NATIVE OR DESIRABLE VEGETATION TO REMAIN. EXISTING VEGETATION THAT IS TO REMAIN SHALL BE PROTECTED. THERE SHALL BE NO BED PREPARATION OR SOIL ADDED WITHIN THE DRIP LINE OF VEGETATION TO REMAIN. ANY VEGETATION DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED WITH LIKE KIND, INCH FOR INCH CALIPER OR TO THE SATISFACTION OF THE ENGINEER. REPAIRS MAY INCLUDE TRIMMING OF BRANCHES.
6. PRIOR TO STARTING WITH VEGETATION REMOVAL WORK, REVIEW ALL LOCATIONS IN THE FIELD WITH THE ENGINEER TO VERIFY VEGETATION TO BE REMOVED (REFER TO CLEARING AND GRUBBING NOTES). SUBMIT PROPOSED METHODOLOGY FOR VEGETATION REMOVAL AT THE PRE-CONSTRUCTION MEETING. AT A MINIMUM METHODOLOGY MUST SHOW THE METHODS UTILIZED TO ENSURE NO DAMAGE OF EXISTING VEGETATION TO REMAIN. ROADWAY STRUCTURES OR UTILITIES. FLUSH-CUT ALL TREES BEING REMOVED WITHIN EXISTING VEGETATION CANOPY AREAS. ANY TREE OR PALMS REMOVED WITHIN SODDED AREAS SHALL BE CUT A MINIMUM OF 18" BELOW ADJACENT GRADE AND COVERED WITH ON-SITE SOIL TO PROVIDE A LEVEL GRADE WITH ADJACENT AREA ALLOWING FOR COMPACTION. NO DEPRESSIONS OR MOUNDS WILL BE ACCEPTED. ALL DEBRIS RESULTING FROM TREE REMOVAL WORK WILL BE REMOVED OFF-SITE AND DISPOSED IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES. ALL EXPOSED AREAS WILL BE MULCHED OR SODDED AS APPLICABLE.
7. FOLLOWING APPROVAL OF PLANTING BEDS, AREAS SHALL BE SCALPED WITH A MOWER AND TREATED TWO TIMES WITH A GLYPHOSATE BASED PRE-EMERGENT HERBICIDE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR RATES AND METHODS OF APPLICATION WITH THE FINAL APPLICATION BEING AT LEAST 5 DAYS PRIOR PLANTING. REMOVE ALL DEAD MATERIAL PRIOR INSTALLATION.
8. WHERE EXISTING VEGETATION IS SHOWN TO REMAIN WITHIN PROPOSED PLANT BEDS THERE WILL BE NO EXCAVATION OR SOIL ADDED WITHIN THE EXISTING TREE CANOPY. ALL EXISTING PLANTS TO REMAIN SHALL BE PROTECTED.
9. EXISTING VEGETATION THAT IS INTENDED TO REMAIN THAT IS DAMAGED OR DESTROYED BY THE CONTRACTOR SHALL BE REPLACED WITH LIKE SPECIES WITH REPLACEMENT CALIPER INCHES TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE DEPARTMENT.
10. AREAS AND IMPROVEMENTS DISTURBED BY THE CONTRACTOR'S ACTIVITIES SHALL BE RESTORED TO THEIR PRE-EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE DEPARTMENT.
11. MULCH QUANTITIES IN THE TABULATION OF QUANTITIES IS FOR LARGE MULCH AREAS INDICATED ON THE LANDSCAPE PLANS BUT NOT INCLUDED IN THE INDIVIDUAL PLANT MULCH VOLUMES. PROVIDE COMMERCIAL GRADE WEED CONTROL FABRIC UNDER ALL LARGE MULCH AREAS.
12. APPLY A POST-EMERGENT HERBICIDE TO ALL MULCH AREAS PRIOR TO MULCHING. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR RATES AND METHODS OF APPLICATION.
13. MULCH SHALL BE FREE OF WEEDS OR ANY NOXIOUS ELEMENTS DETRIMENTAL TO PLANT HEALTH OR CREATE MAINTENANCE CONCERNS. PINE BARK MULCH APPLICATION SHALL BE UNIFORMLY APPLIED TO A MINIMUM THICKNESS OF 3" IN DESIGNATED AREAS AND FREE STANDING TREES NOT ON SLOPES. PINE STRAW MULCH SHALL BE PLACED ON SLOPED AREAS 3:1 OR GREATER OR AS INDICATED ON THE LANDSCAPE PLANS. PINE STRAW MULCH SHALL BE COMPACTED TO A DEPTH OF 2". NO MULCH SHALL BE WITHIN 12" OF TREE AND PALM TRUNKS. INDIVIDUAL FREE STANDING TREES AND PALMS SHALL BE CENTERED IN A MIN. 6' DIAMETER MULCH RING.
14. THE ST. AUGUSTINE SOD AREA IS SHOWN IN THE LANDSCAPE PLAN IS LOCATED WITHIN THE MEDIAN OF REDTAIL BOULEVARD. ALL OTHER SOD DISTURBED BY INSTALLATION OF THE LANDSCAPE PLANTINGS SHALL BE REPLACED WITH SAME SOD SPECIES AS PRESENT.
15. THE CONTRACTOR, AT HIS OPTION, MAY INSTALL A TEMPORARY IRRIGATION SYSTEM FOR ENTIRE OR PORTIONS OF THIS PROJECT TO ENSURE FLORIDA GRADE NO. 1. COST OF THE TEMPORARY IRRIGATION, IF ELECTED, SHALL BE PART OF THE PLANT COST. SHOULD A TEMPORARY IRRIGATION SYSTEM NOT PROVIDE ADEQUATE WATER FOR INSTALLATION AND DURING THE ESTABLISHMENT PERIOD, OTHER METHODS OF WATERING, SUBJECT TO ENGINEER'S APPROVAL, MAY BE USED TO SUPPLEMENT THE TEMPORARY IRRIGATION SYSTEM.
16. A WATERING SCHEDULE SHALL BE PROVIDED BY THE CONTRACTOR TO INDICATE RATE AND FREQUENCY OVER THE ESTABLISHMENT PERIOD. WATER FORCE SHALL NOT BE APPLIED IN A MANNER WHICH WOULD DAMAGE PLANTS, REMOVE SOIL SAUCER RING OR MULCH AROUND EACH PLANT OR CAUSE EROSION. DAMAGE TO PLANT OR OTHER SURROUNDING ITEMS IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR OR REPLACE.
17. A TREE GUARD SHALL BE LOCATED AT BASE OF EACH FREE STANDING TREE LOCATIONS. FREE STANDING SHALL BE TREES THAT HAVE MULCH RINGS THAT DO NOT CONNECT TO ADJACENT TREE MULCH RING(S) OR BED(S). REFER TO "TREE GUARD DETAIL".
18. PROPER NOURISHMENT SHALL BE DEFINED AS MAINTAINED FERTILITY LEVELS SUCH THAT THE PLANT MATERIAL SHOWS NO SIGNS OF LEAF DEFORMATION NORMALLY ASSOCIATED WITH LACK OF PROPER NUTRITION (CHLOROSIS, NECROSIS, LEAF SPOT, FRIZZLE TOP, ETC.).
19. CONTRACTOR TO SUBMIT AN ESTABLISHMENT PLAN TO THE ENGINEER FOR REVIEW AND COMMENT NOT LESS THAN 45 DAYS PRIOR SCHEDULE COMPLETION OF INSTALLATION. ESTABLISHMENT PLAN WILL BE CONSIDERED COMPLETE ONLY WHEN THE PLAN HAS BEEN ACCEPTED BY THE ENGINEER. THE PLAN SHALL DESCRIBE METHODS, ACTIVITIES, MATERIALS AND SCHEDULE TO ACHIEVE ESTABLISHMENT OF PLANTS DESCRIBED IN THE FDOT SPECIFICATIONS. THE PLAN SHALL ALSO INCLUDE WATERING SCHEDULE.



REVISIONS					prepared by: JCR CONSULTING P.O. BOX 941994 MAITLAND, FLORIDA 32794 Ph (407) 644-5297 Fax (407) 644-3274  JOAN RANDOLPH, R.L.A. FLORIDA REG. RLA #0000576	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.  LD-6
DATE	BY	DESCRIPTION	DATE	BY		ROAD NO.	COUNTY	FINANCIAL PROJECT ID.	
					CR 46A	LAKE	437114-5-52-01		

\$USER\$ \$DATE\$ \$TIME\$ \$FILE\$

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23-003, F.A.C.

**MAINTENANCE OF TRAFFIC NOTES:**

1. PRIOR TO BEGINNING WORK THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A TRAFFIC CONTROL PLAN FOR INSTALLATION AND MAINTENANCE ACTIVITIES FOR REVIEW AND APPROVAL PRIOR TO BEGINNING WORK.
2. MAINTAIN THE EXISTING POSTED SPEED LIMITS DURING ALL PHASES OF CONSTRUCTION.
3. ACCELERATION AND DECELERATION OF ALL CONSTRUCTION VEHICLES WITHIN A TRAVEL LANE IS PROHIBITED. CONTRACTOR SHALL MAKE PROVISIONS FOR CONSTRUCTION VEHICLE ACCESS TO THE WORK AREAS INCLUDING MATERIAL DELIVERY. LANE CLOSURES MAY BE WARRANTED FOR CERTAIN CONSTRUCTION VEHICLES TO ENTER THE WORK AREAS. COORDINATE ALL ACCESS LOCATIONS WITH THE ENGINEER.
4. ALL LANE CLOSURES AND CONSTRUCTION ACTIVITIES MUST COMPLY WITH PROVISIONS AS OUTLINED IN FDOT LANE CLOSURE POLICY AND PROCEDURE. COORDINATE ALL LANE CLOSURES REQUESTS WITH THE ENGINEER. REQUESTS ARE TO BE SUBMITTED TWO (2) WEEKS IN ADVANCE OF ANY LANE CLOSURES.
5. DURING CONSTRUCTION AND ESTABLISHMENT OF THE LANDSCAPE PROJECT, ALL MAINTENANCE ACTIVITIES THAT IMPACT THE TRAVELING PUBLIC ARE PROHIBITED DURING PEAK TRAFFIC PERIODS. PEAK TRAFFIC PERIODS AND TRAFFIC DIRECTION MAY VARY ON DIFFERENT DATES AND MUST BE CONFIRMED WITH THE ENGINEER.
6. ALL HAULING OPERATIONS THAT UTILIZE THE FDOT ROADWAY SHALL BE PROHIBITED FROM 5:00 AM TO 10:00 AM AND FROM 3:00 PM TO 8:00 PM DURING ALL WEEKDAYS TO MINIMIZE IMPACT TO TRAFFIC FLOW. HOURS MAY VARY ONLY WITH APPROVAL BY THE ENGINEER. ACCELERATION AND DECELERATION LANES MUST BE PROVIDED FOR ALL HAULING OPERATIONS AND MUST BE LOCATED OUTSIDE OF OPEN TRAVEL LANES. THIS MAY NECESSITATE USE OF LANE CLOSURES DURING ACCEPTABLE HOURS. UNDER NO CIRCUMSTANCES WILL CONSTRUCTION VEHICLES BE PERMITTED TO ACCELERATE OR DECELERATE WITHIN ANY TRAVEL LANES.
7. THE CONTRACTOR SHALL MAKE PROVISIONS FOR A LAW ENFORCEMENT OFFICER FOR TRAFFIC CONTROL. CONTACT THE ENGINEER FOR CONTACT NAME AND NUMBER FOR ALL LANE CLOSURES AND/OR AS DIRECTED BY THE ENGINEER. ALL COSTS ARE INCLUDED UNDER 102-14 AND SHALL BE CONSIDERED INCIDENTAL TO THE PLANT COSTS. IF THE CONTRACTOR ELECTS TO USE OFFICERS FOR ANY OTHER ACTIVITY, INCLUDE THE COST IN UNIT PLANT COSTS.
8. SAFETY REGULATIONS OF THE DEPARTMENT SHALL BE OBSERVED AND THE CONTRACTOR SHALL TAKE MEASURES, INCLUDING PLACING AND DISPLAYING OF SAFETY DEVICES, THAT MAY BE NECESSARY IN ORDER TO SAFELY CONDUCT THE PUBLIC THROUGH THE PROJECT AREA.

**STORM WATER POLLUTION PREVENTION NOTES:**

1. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ENSURE AGAINST POLLUTING, SILTATION OR DISTURBANCE TO SUCH AN EXTENT AS TO CAUSE INCREASED TURBIDITY IN THE EXISTING DRAINAGE SYSTEMS, ADJACENT WATER BODIES AND WETLANDS IN ACCORDANCE WITH STATE AND FEDERAL REQUIREMENTS.
2. THE CONTRACTOR SHALL PROMPTLY REMOVE MUD, DIRT OR OTHER MATERIALS TRACKED OR SPILLED ON PUBLIC ROADWAYS AND FACILITIES AS A RESULT OF CONSTRUCTION ACTIVITIES.
3. STOCKPILED MATERIALS SHALL BE CONTAINED SO AS TO PREVENT RUNOFF ENTERING DRAINAGE SYSTEMS OR BUILD UP ON ROADWAYS.
4. CONTRACTOR SHALL PROVIDE A EROSION/SEDEMENT CONTROL PLAN TO INDICATED LOCATIONS AND METHODS FOR ENGINEER APPROVAL PRIOR TO START OF ANY WORK.
5. NO EARTHWORK, OTHER THAN POLLUTION CONTROL, IS TO BE PART OF THIS CONTRACT.

**CONTROLS:**

THE FOLLOWING DESCRIBES THE GENERAL GUIDELINES FOR THE SEQUENCE OF CONSTRUCTION, THE USE OF STABILIZATION AND STRUCTURAL PRACTICES:

1. SEQUENCE OF CONSTRUCTION:
  - A. EROSION AND SEDIMENT CONTROL
  - B. CLEARING AND GRUBBING
  - C. TEMPORARY IRRIGATION SYSTEM (IF CONTRACTOR ELECTED)
  - D. LANDSCAPE PLANTINGS
2. EROSION AND SEDIMENT CONTROLS:
  - A. THE SOIL AND SEDIMENT CONTROLS SHALL BE PLACED AND BE MAINTAINED BY THE CONTRACTOR TO MINIMIZE THE AMOUNT OF SOIL DISTURBED, PREVENT OFF-SITE RUNOFF FROM DISCHARGING ACROSS THE DISTURBED AREAS AND REMOVE ON-SITE SEDIMENT PRIOR TO DISCHARGE OF RUNOFF FROM THE SITE.
3. SWPPP ACTIVITIES:
  - A. INSTALL SEDIMENT BARRIERS AT LOCATIONS SUBJECT TO DISTURBANCE. SEDIMENT BARRIER WILL BE PLACED A MINIMUM OF SIX (6) INCHES FROM AREA LIMIT OF DISTURBANCE.
  - B. INSTALL PORTABLE TOILETS FOR SANITARY WASTE.
  - C. INSTALL SEDIMENT BARRIERS AROUND EXISTING INLETS.
3. STABILIZATION PRACTICES:
  - A. ALL AREAS DISTURBED DURING THE INSTALLATION OF LANDSCAPE SHALL BE STABILIZED THROUGH THE INSTALLATION OF NEW SOD, LANDSCAPE AND MULCH.
4. STRUCTURAL PRACTICES:
  - A. TEMPORARY: SEDIMENT BARRIERS. ALL SEDIMENT CONTROLS SHALL BE IN PLACE PRIOR TO ANY SOIL DISTURBING ACTIVITY UPSTREAM OF THE CONTROL.
  - B. PERMANENT: STORM WATER POND AND DITCHES (NONE TO BE PART OF THIS CONTRACT)
5. OTHER CONTROLS:
  - A. WASTE DISPOSAL: THE CONTRACTOR SHALL PROVIDE LITTER CONTROL AND COLLECTION OF MATERIALS WITHIN THE PROJECT LIMITS DURING CONSTRUCTION ON A DAILY BASIS. ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH THE EPA STANDARD PRACTICES. NO SOLID MATERIAL (INCLUDING CONSTRUCTION MATERIALS) SHALL BE DISPOSED OF, DISCHARGED OR BURIED ON-SITE.
  - B. SANITARY WASTE FACILITIES: THE CONTRACTOR SHALL PROVIDE SANITARY WASTE FACILITIES DURING CONSTRUCTION. THESE FACILITIES WILL BE COLLECTED OR EMPTIED BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE REGULATIONS.
  - C. FERTILIZERS AND PESTICIDES: THE APPLICATION OF FERTILIZERS AND PESTICIDES SHALL BE ACCOMPLISHED IN A MANNER DESCRIBED BY THE MANUFACTURER TO ENSURE PROPER APPLICATION AND TO AVOID OVER-APPLICATION.

**MAINTENANCE:**

1. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE MAINTENANCE AND REPAIR OF EROSION AND SEDIMENT CONTROL DEVICES AND EROSION CONTROL MATERIALS. THE MAINTENANCE OF THESE DEVICES AND MATERIALS WILL OCCUR UNTIL THE PROJECT ENGINEER HAS DEEMED THE PROJECT HAS BEEN COMPLETED AND THE AREAS PERMANENTLY STABILIZED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES ONCE THEY HAVE SERVED THEIR PURPOSE.
2. MAINTENANCE AND REPAIR REQUIRED FOR THE DEVICES AND MATERIALS SHALL BE INCLUDED IN PLANT UNIT COST.
3. CONDUCT DAILY INSPECTIONS OF ALL TEMPORARY STABILIZATION MEASURES WITHIN THE PROJECT LIMITS. THE CONTRACTOR IS EXPECTED TO REPAIR AND/OR REPLACE THESE ITEMS AS NECESSARY. IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION PRACTICES ARE NOT SUFFICIENT TO RETAIN SEDIMENT AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR WILL PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER AT NO ADDITIONAL COST TO FDOT.

**CLEARING AND GRUBBING NOTES:**

1. CLEARING AND GRUBBING OF EXISTING PLANT MATERIALS SHALL INCLUDE REMOVAL OF EXOTICS AND INVASIVES.
2. COORDINATE VEGETATION TO BE REMOVED WITH ENGINEER.
3. TREES OR PALMS BEING REMOVED LOCATED WITHIN EXISTING CANOPY AREA MAY BE FLUSH CUT.

**MAINTENANCE OPERATIONS NOTES:**

1. MAINTENANCE OPERATION SHALL APPLY TO ALL PROPOSED PLANTS AND MULCH BEDS LINES. SEE LANDSCAPE NOTES AND DETAILS FOR LIMITS OF BEDS LINES.
2. AREAS WITHIN PROJECT LIMITS MAINTENANCE OPERATIONS SHALL BE LIMITED TO MOWING AND LITTER CONTROL MEASURING SIX FEET (6') FROM THE MULCH BED LINES AND FREE STANDING MULCH RINGS.
3. AREAS NOT LISTED ABOVE WHERE SOD HAS BEEN DISTURBED AND REPLACED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MOWING UNTIL FINAL ACCEPTANCE OF THIS PROJECT OR A MINIMUM OF TWO MOWING CYCLES ONCE SOD INSTALLATION HAS BEEN ACCEPTED.

**UTILITIES:**

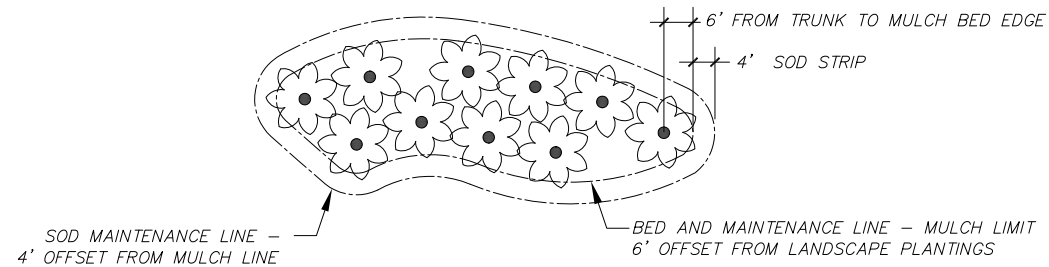
1. UTILITY INFORMATION SHOWN IN THE DRAWINGS IS SCHEMATIC IN NATURE AND A GRAPHIC DEPICTION ONLY. NO UTILITY FACILITIES WILL BE RELOCATED. IF LANDSCAPE IS IN CONFLICT WITH A UTILITY, NOTIFY THE ENGINEER IMMEDIATELY FOR ADJUSTMENT TO THE LANDSCAPE PLACEMENT.
2. NOTIFY UTILITY OWNERS THROUGH SUNSHINE STATE ONE CALL OF FLORIDA, INC. (PH# 811). HAVE ALL UTILITIES DESIGNATED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
3. UTILITIES SHOWN ON THE PLANS ARE FOR REFERENCE ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL LOCATE ALL ABOVE GROUND AND SUBSURFACE UTILITY FACILITIES WITHIN THE PROJECT LIMITS AND, IF NECESSARY, PHYSICALLY EXPOSE UTILITY FACILITIES THAT MAY BE AFFECTED PRIOR TO INSTALLATION OF ANY PLANT MATERIAL.
4. THERE WILL BE NO SEPARATE COMPENSATION FOR PERFORMING THIS UTILITY LOCATE WORK. ALL COSTS SHALL BE INCLUDED IN THE UNIT COST FOR PLANT MATERIAL.
5. THE CONTRACTOR SHALL EXERCISE EXTREME CARE WHILE EXCAVATING NEAR ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO EXISTING UTILITIES CAUSED AS A RESULT OF THE WORK OF THIS CONTRACT AND SHALL BE REQUIRED TO FOLLOW THE GENERAL REQUIREMENT FOR THE PRESERVATION AND REPAIR OF EXISTING FACILITIES.
6. THE CONTRACTOR SHALL REPAIR ANY AND ALL DAMAGE TO UTILITIES CAUSED BY THE CONTRACTOR OR THEIR SUB CONTRACTORS TO EXISTING CONDITIONS IMMEDIATELY AT NO ADDITIONAL COST TO THE DEPARTMENT.
7. UTILITY/AGENCY OWNERS:

COMPANIES	TELEPHONE NUMBERS
CENTURY LINK	407-814-5383
CITY OF EUSTIS (WATER)	352-483-5480
CITY OF EUSTIS (WASTEWATER)	352-483-5480
COMCAST COMMUNICATIONS	352-315-8527
FLORIDA GAS TRANSMISSION	407-838-7171
DUKE ENERGY	407-942-9553

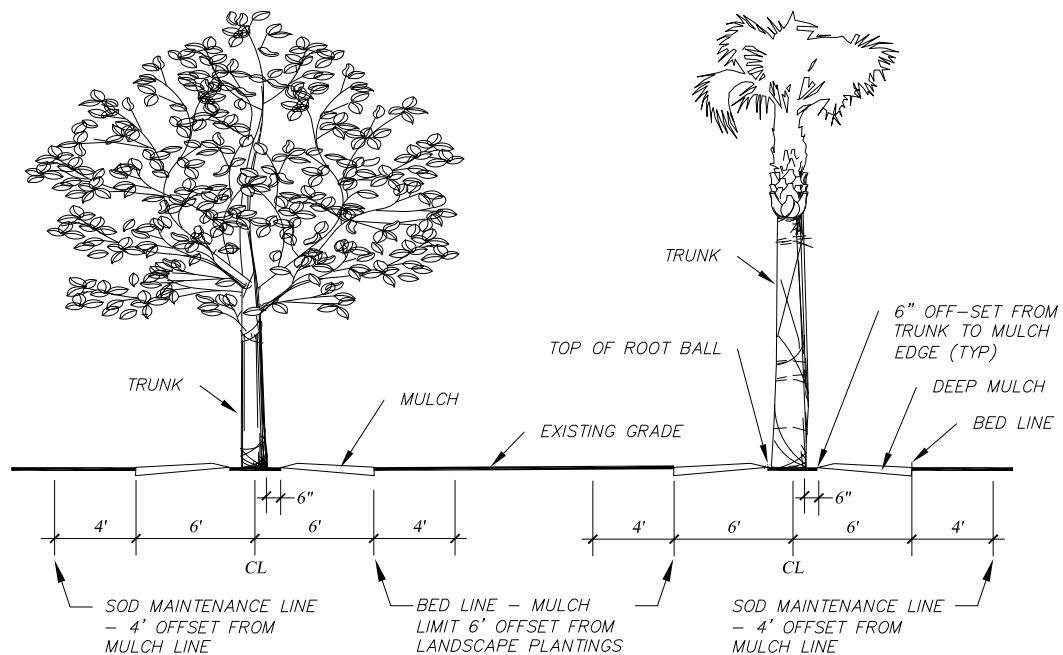
**PERMITS:**

1. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS REQUIRED FOR THE PROJECT.

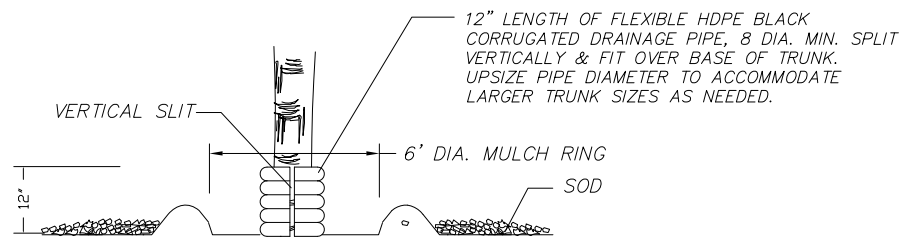
REVISIONS						prepared by: JCR CONSULTING P.O. BOX 941994 MAITLAND, FLORIDA 32794 Ph (407) 644-5297 Fax (407) 644-3274	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.  LD-7
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID.	
						CR 46A	LAKE	437114-5-52-01		



- NOTES:
1. CLUSTERS OF TREES AND PALMS LOCATED LESS THAN 20' APART SHALL BE LOCATED WITHIN A CONTINUOUS MULCH BED.
  2. MULCH FOR THESE BEDS SHALL BE INCLUDED AS PART OF THE PLANT UNIT COST.
  3. NOT ALL MULCH BEDS LINES MAY BE SHOWN ON THESE PLANS.
  4. OUTER LIMITS OF THE MULCH BEDS SHALL BE NO CLOSER THAN 6 FEET FROM TREE OR PALM TRUNKS.
  5. NO MULCH SHALL BE PLACED WITHIN 6 INCHES FROM ANY PLANT TRUNKS.
  6. BED LINES SHALL PROVIDE SMOOTH LARGE CURVILINEAR RADIUS TO ALLOW FOR LARGE MOWING EQUIPMENT MANEUVERABILITY.
  7. A 4 FOOT SOD STRIP SHALL BE PLACED AROUND ALL CONTINUOUS MULCH BED LINES AND FREE STANDING MULCH RINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR MOWING NEWLY PLACED SOD DURING THE TURF ESTABLISHMENT PERIOD.
  8. ALL FREE STANDING TREES AND PALMS SHALL HAVE A SIX (6) FOOT DIAMETER MULCH RING CENTERED AROUND TRUNK.
  9. REFER TO LANDSCAPE PLANS FOR MULCH TYPES.



**LARGE MULCH BED LINE AND MAINTENANCE OPERATIONS LIMITS DETAIL**  
Scale: N.T.S.

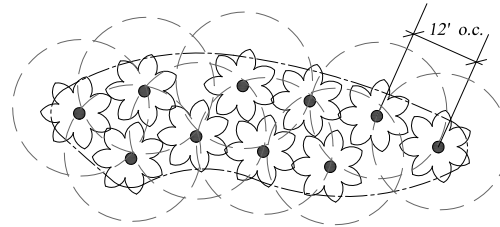


**FREE STANDING TREE GUARD DETAIL**  
Scale: N.T.S.

NOTE: PROVIDE TREE GUARD FOR INDIVIDUAL FREE STANDING TREES NOT LOCATED IN GROUPED MULCH BEDS. NOT APPLICABLE FOR SABAL PALMS.

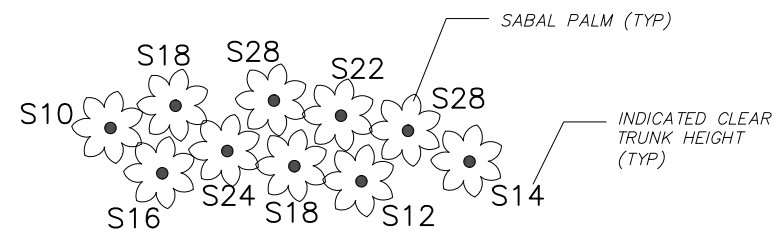
**GENERAL NOTES:**

1. DESIGN & POSTED SPEEDS ARE AS FOLLOWS:  
 CR 46A (STA. 365+42 TO 435+00): DESIGN: 60 MPH / POSTED: 55 MPH  
 CR 46A (STA. 435+00 TO 502+50.95): DESIGN/POSTED: 45 MPH  
 SR 46: DESIGN/POSTED: 45 MPH  
 RAMPS N, O, P, Q: DESIGN: 30 MPH



**SABAL PALM AND CEDAR SPACING DETAIL**  
Scale: N.T.S.

NOTE: SPACING FOR SABAL PALMS AND SOUTHERN RED CEDARS UNLESS NOTED.

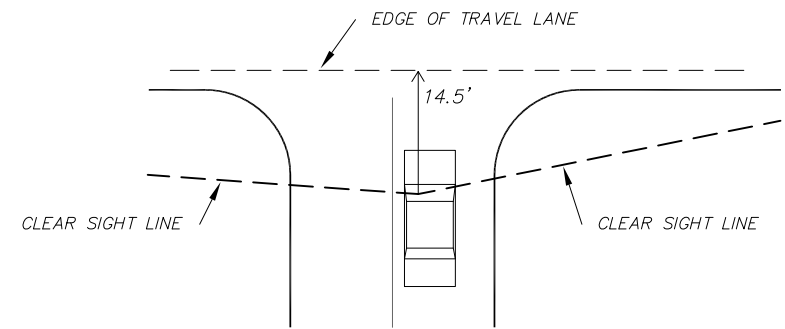


**TYPICAL PALM STAGGERED HEIGHTS**  
Scale: N.T.S.

NOTE: SABAL PALM CLEAR TRUNK HEIGHTS SHOWN ARE ABOVE ARE REPRESENTATIVE SAMPLE WHERE A MINIMUM 4' HEIGHT DIFFERENCE IS PROVIDED TO ADJACENT PALMS LOCATED WITHIN CLUSTERS. MINIMUM REQUIRED HEIGHT DIFFERENCE FOR ADJACENT PALMS IS FOUR FEET. A 6' HEIGHT VARIATION OR GREATER IS DESIRED.

**PLANT PLACEMENT NOTES:**

1. SPACINGS INDICATED ARE INTENDED TO REPRESENT AN OVERALL DESIGN INTENT FOR PROPOSED LANDSCAPE MATERIAL CLUSTERS.
2. TYPICAL PALM, TREE AND SHRUB PLANTING PLACEMENT SPACINGS IN MASSING LOCATIONS:
  - A. SABAL PALMS: 12' ON CENTER (SEE NOTE 2 BELOW)
  - B. SOUTHERN RED CEDAR: 15' ON CENTER
  - C. DALHOON HOLLY: 12' ON CENTER
2. SABAL PALM DESIGN INTENT FOR HEIGHT PLACEMENT:
  - A. REFER TO DETAILS THIS SHEET FOR SPACING AND CLEAR TRUNK HEIGHT DIRECTION.
  - B. THE CONTRACTOR SHALL FIELD STAKE LOCATIONS AND PROPOSED HEIGHTS TO MEET THE INTENT OF THE DESIGN DESCRIBED IN THESE PLANS.
  - C. LOCATE LARGER CLEAR TRUNK HEIGHTS ADJACENT TO EXISTING VEGETATION CANOPY AND RIGHT-OF-WAYS AND SMALLER HEIGHTS IN FRONT OF BED FACING ROADWAY.
  - D. SPACING MAY VARY FOR PLANTED PALMS ADJACENT TO EXISTING SABAL PALMS.
3. THE CONTRACTOR SHALL FIELD STAKE LOCATIONS (AND PROPOSED HEIGHTS OF THE SABAL PALMS) TO MEET THE INTENT OF THE DESIGN DESCRIBED IN THESE PLANS. FINAL PLANT LOCATIONS AND PALM HEIGHT LOCATIONS TO BE APPROVED BY ENGINEER.
4. PROPOSED TREES, PALMS AND SHRUBS PLACED FROM STA. 419+40 TO STA. 444+00 ARE TO PROVIDE ADDITIONAL VEGETATION BUFFERING TO SUPPLEMENT THE EXISTING TREES THAT WILL REMAIN AFTER FUTURE ROAD WIDENING TO THE ADJACENT RESIDENTIAL AREAS TO THE WEST. PLACEMENT SHALL BE ADJUSTED AS NEEDED TO PROVIDE THIS DESIRED AFFECT. COORDINATE PROPOSED LOCATIONS WITH ENGINEER PRIOR TO INSTALLATION. MAKE ADJUSTMENTS AS NEEDED.



**MINIMUM DRIVE EYE SETBACK**  
Scale: N.T.S.

**PLANT LEGEND:**

TREES	CODE	COMMON NAME
	ACE AUT	Autumn Flame Maple
	ILE CAS	Dahoon Holly
	JUN VIR	Southern Red Cedar
	LAG LAV	Lavendar Crape Myrtle
	LAG WHT	White Crape Myrtle
	LAG RED	Red Crape Myrtle
	LIG JAP	Japanese Privet
	MYR CER	Wax Myrtle
	PIN S	Slash Pine-7' H
	PIN T	Slash Pine-10' H
	QUE SHU	Shumard Red Oak
	QUE VIR	Live Oak
	SAB PAL	Sabal Palm
	TAX S	Autumn Gold Bald Cypress-10' H
	TAX T	Autumn Gold Bald Cypress-16' H
	ULM ALA	Allee Elm
SHRUBS		
	COR SEL	Pampas Grass
	HAM PAT	Fire Bush
	NER OLE	Pink Oleander
	NER RED	Red Oleander
	MUL-BA	Small Pine Bark Mulch
	MUL-ST	Pine Straw Mulch
	STE SEC	St. Augustine Sod

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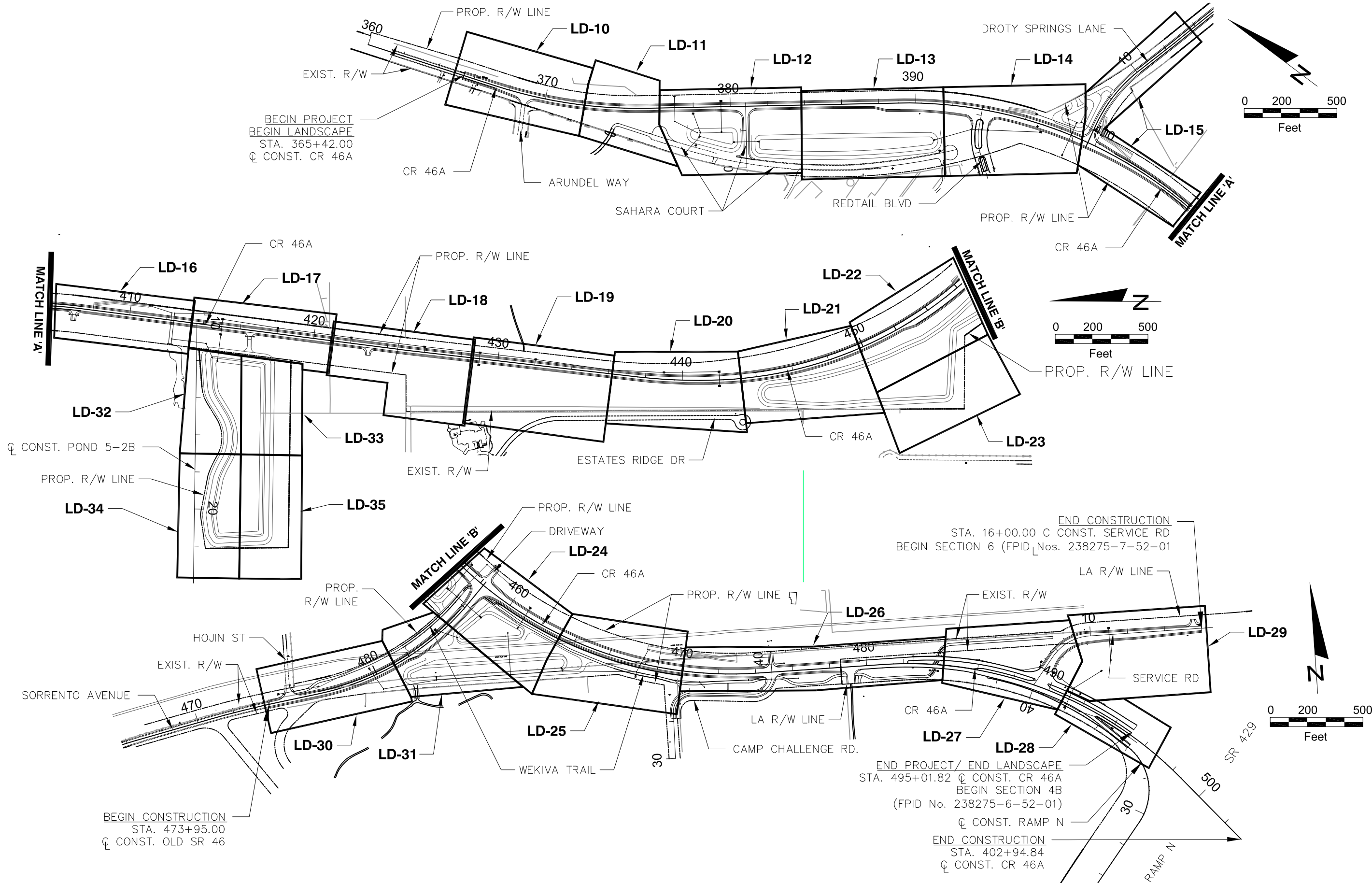
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**LANDSCAPE DETAILS**

SHEET NO.  
**LD-8**

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BEGIN PROJECT  
 BEGIN LANDSCAPE  
 STA. 365+42.00  
 Q CONST. CR 46A

END CONSTRUCTION  
 STA. 16+00.00 C CONST. SERVICE RD  
 BEGIN SECTION 6 (FPID Nos. 238275-7-52-01)

BEGIN CONSTRUCTION  
 STA. 473+95.00  
 Q CONST. OLD SR 46

END PROJECT/ END LANDSCAPE  
 STA. 495+01.82 Q CONST. CR 46A  
 BEGIN SECTION 4B  
 (FPID No. 238275-6-52-01)

END CONSTRUCTION  
 STA. 402+94.84  
 Q CONST. CR 46A

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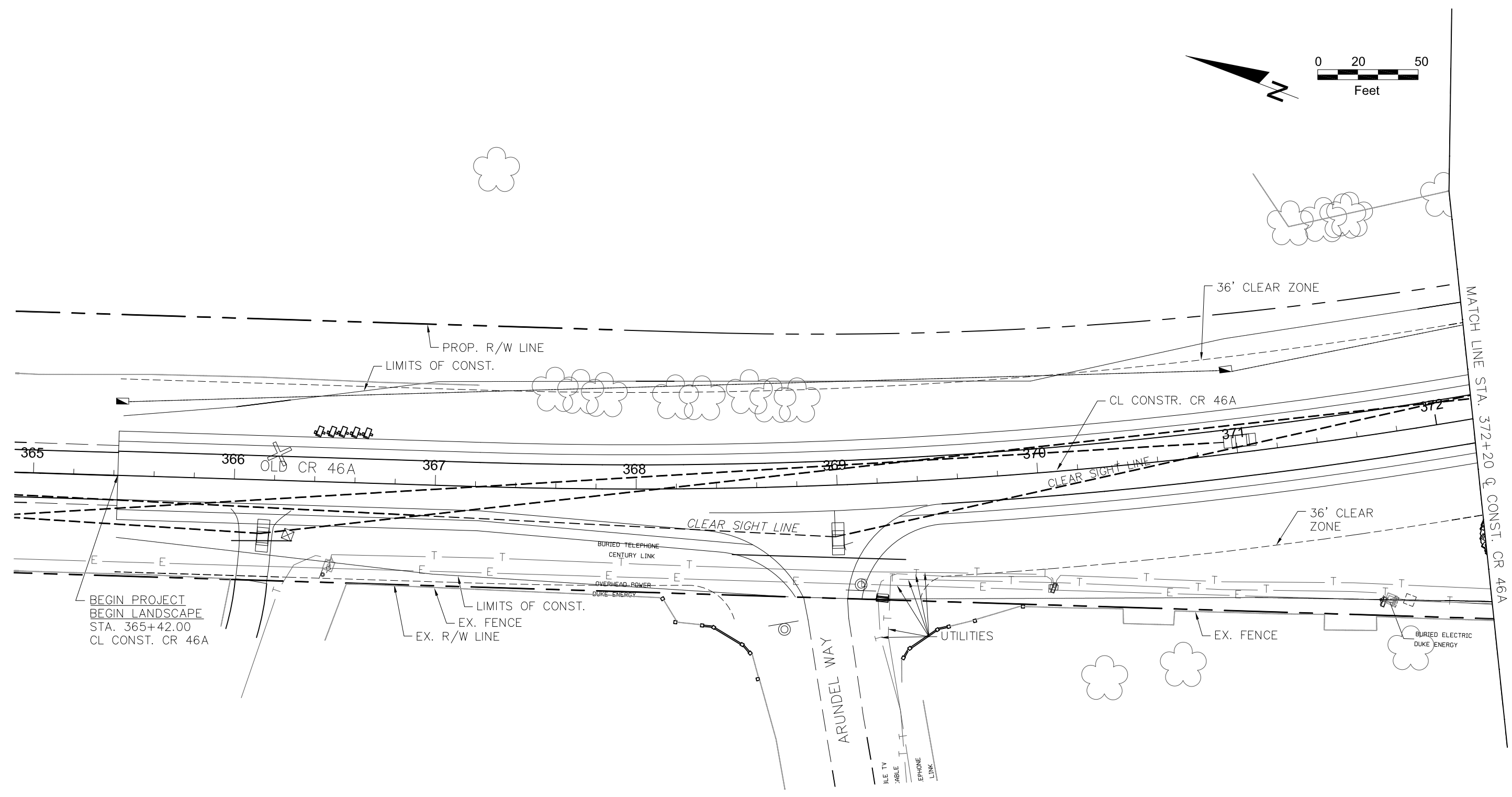
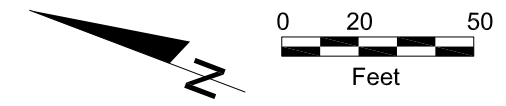
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**LANDSCAPE PROJECT LAYOUT**

SHEET NO.  
LD-9

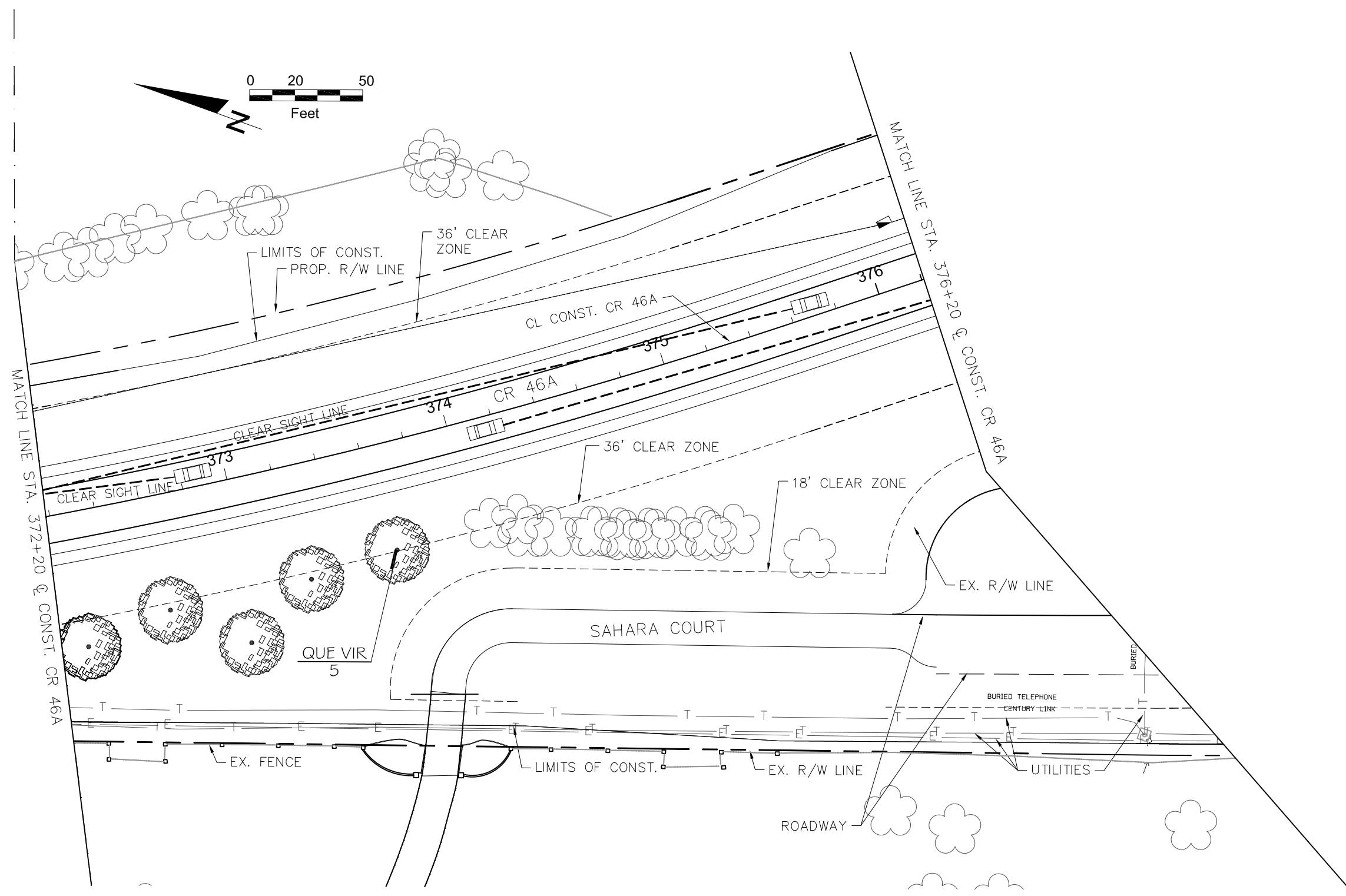
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NO LANDSCAPE THIS SHEET

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID.		
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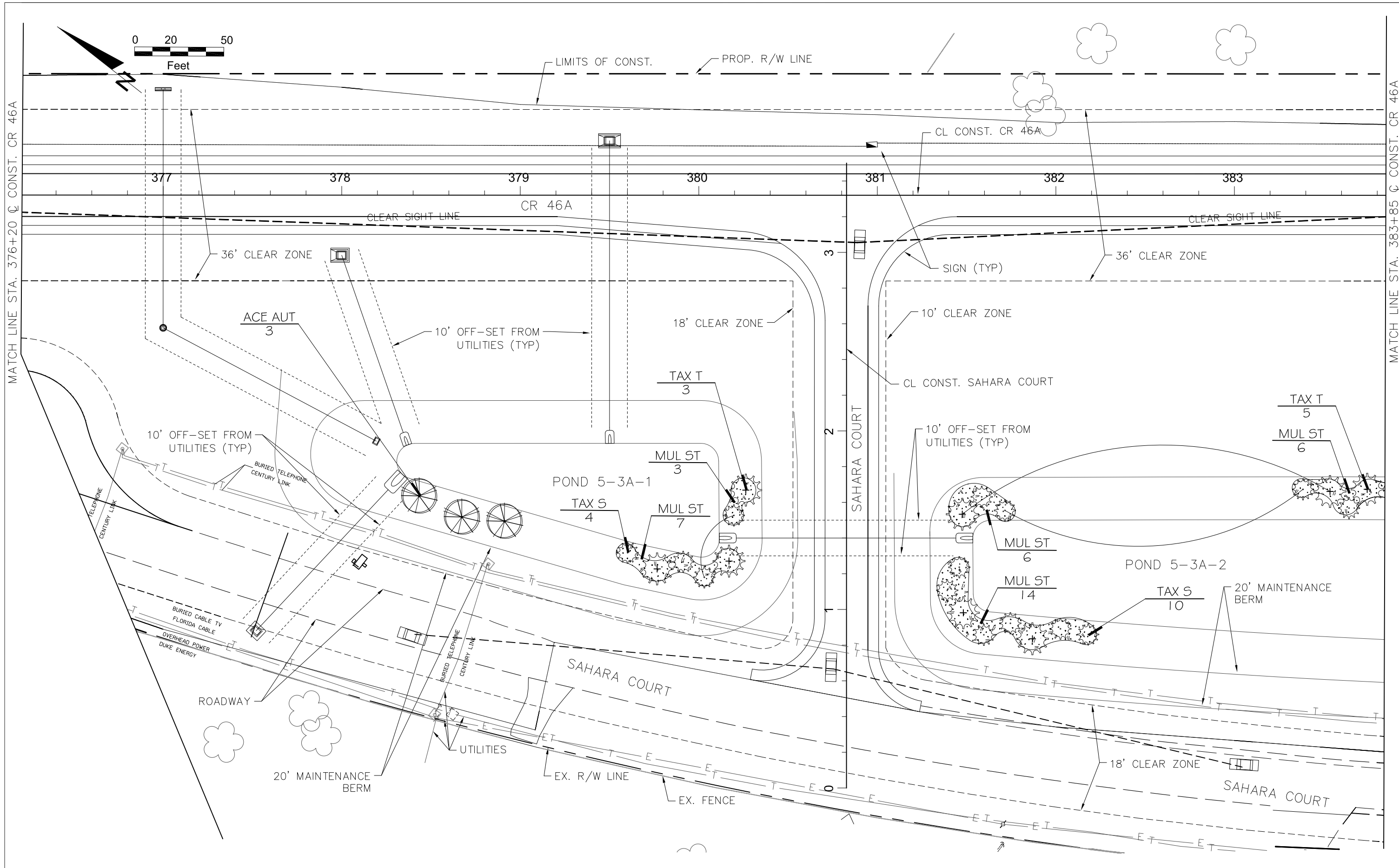
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**LANDSCAPE PLAN**

SHEET NO.  
**LD-11**

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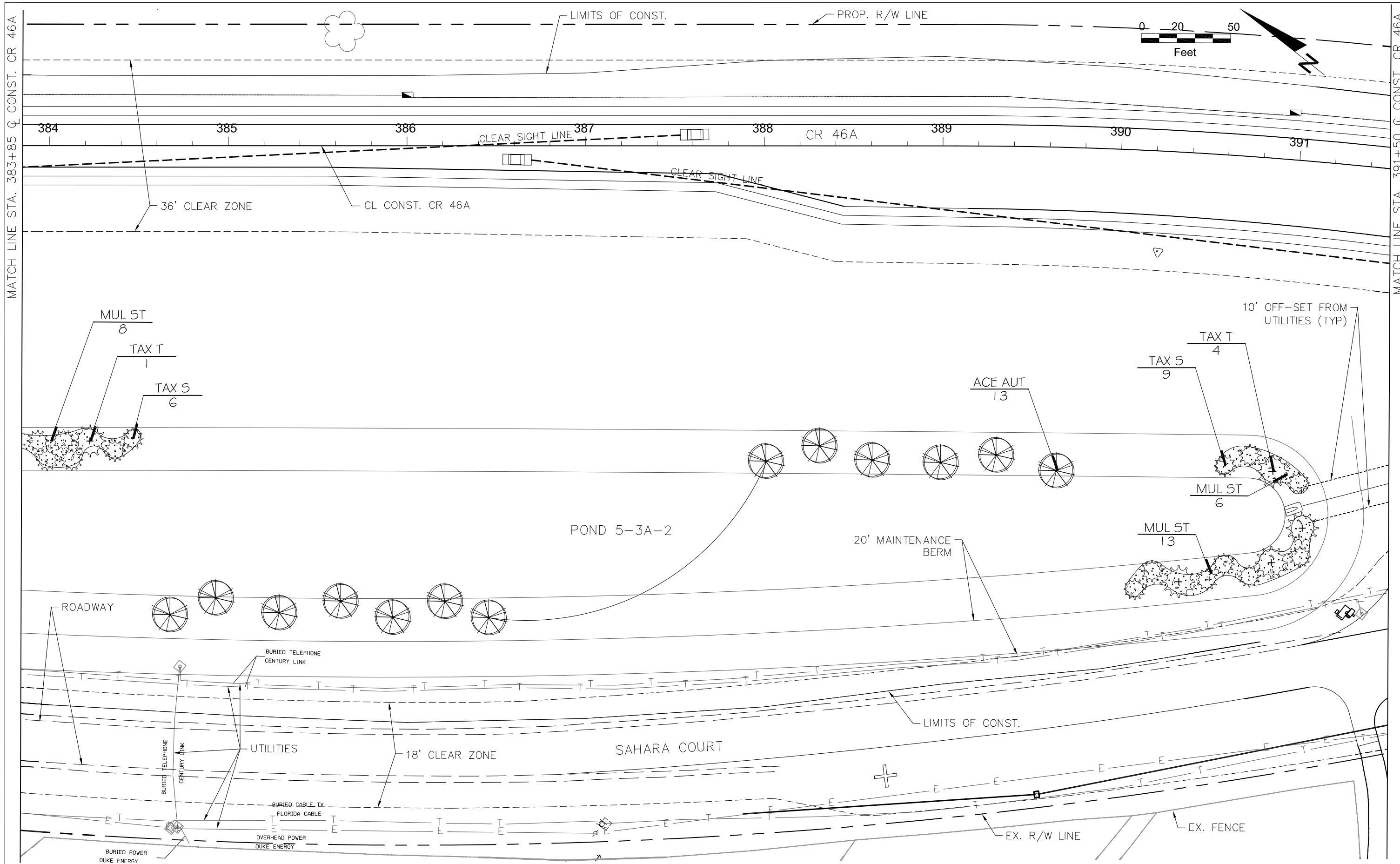
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**LANDSCAPE PLAN**

SHEET NO.  
**LD-12**

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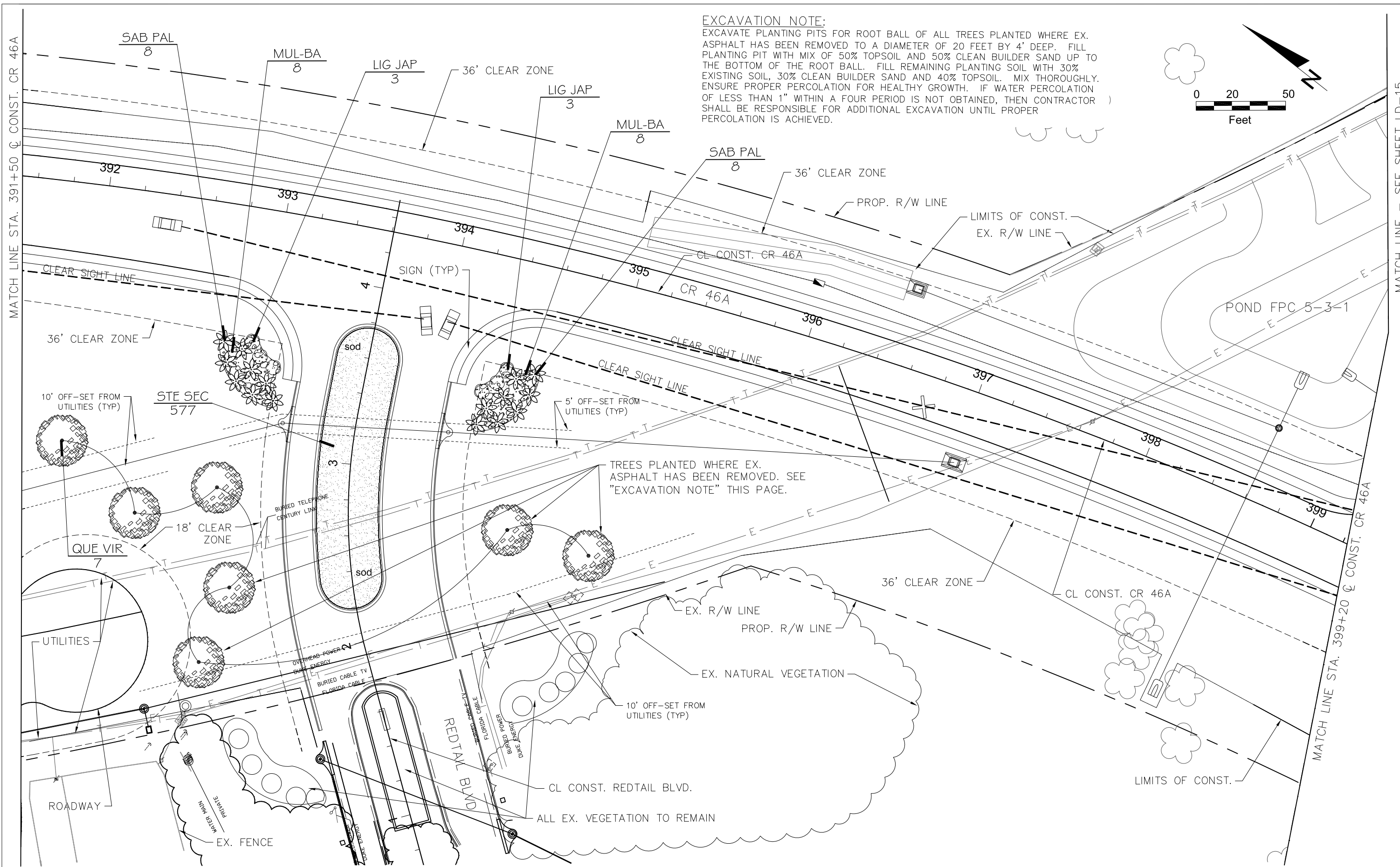
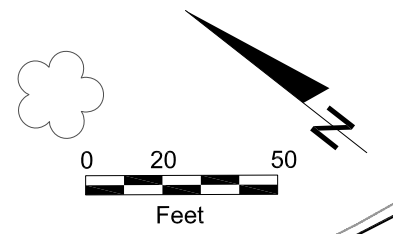
**LANDSCAPE PLAN**

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**LD-13**

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**EXCAVATION NOTE:**

EXCAVATE PLANTING PITS FOR ROOT BALL OF ALL TREES PLANTED WHERE EX. ASPHALT HAS BEEN REMOVED TO A DIAMETER OF 20 FEET BY 4' DEEP. FILL PLANTING PIT WITH MIX OF 50% TOPSOIL AND 50% CLEAN BUILDER SAND UP TO THE BOTTOM OF THE ROOT BALL. FILL REMAINING PLANTING SOIL WITH 30% EXISTING SOIL, 30% CLEAN BUILDER SAND AND 40% TOPSOIL. MIX THOROUGHLY. ENSURE PROPER PERCOLATION FOR HEALTHY GROWTH. IF WATER PERCOLATION OF LESS THAN 1" WITHIN A FOUR PERIOD IS NOT OBTAINED, THEN CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL EXCAVATION UNTIL PROPER PERCOLATION IS ACHIEVED.



TREES PLANTED WHERE EX. ASPHALT HAS BEEN REMOVED. SEE "EXCAVATION NOTE" THIS PAGE.

ALL EX. VEGETATION TO REMAIN

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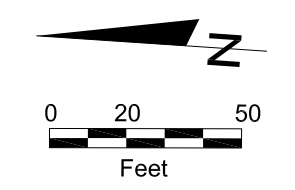
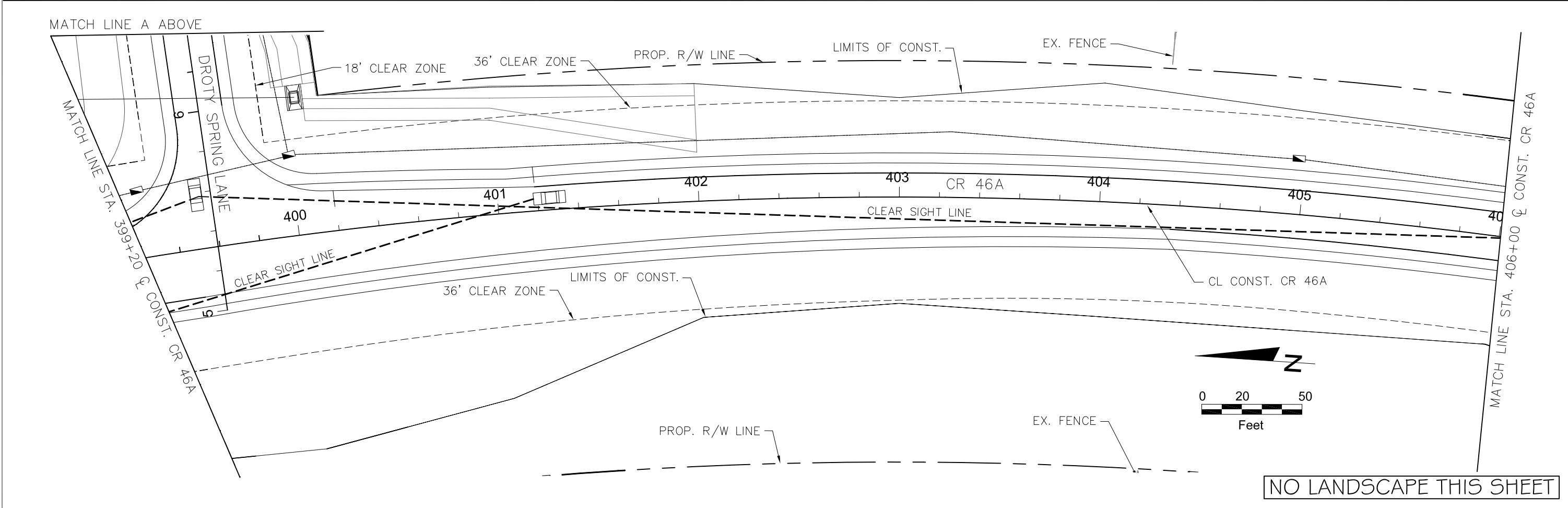
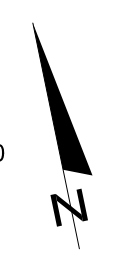
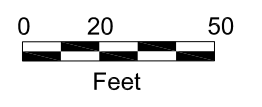
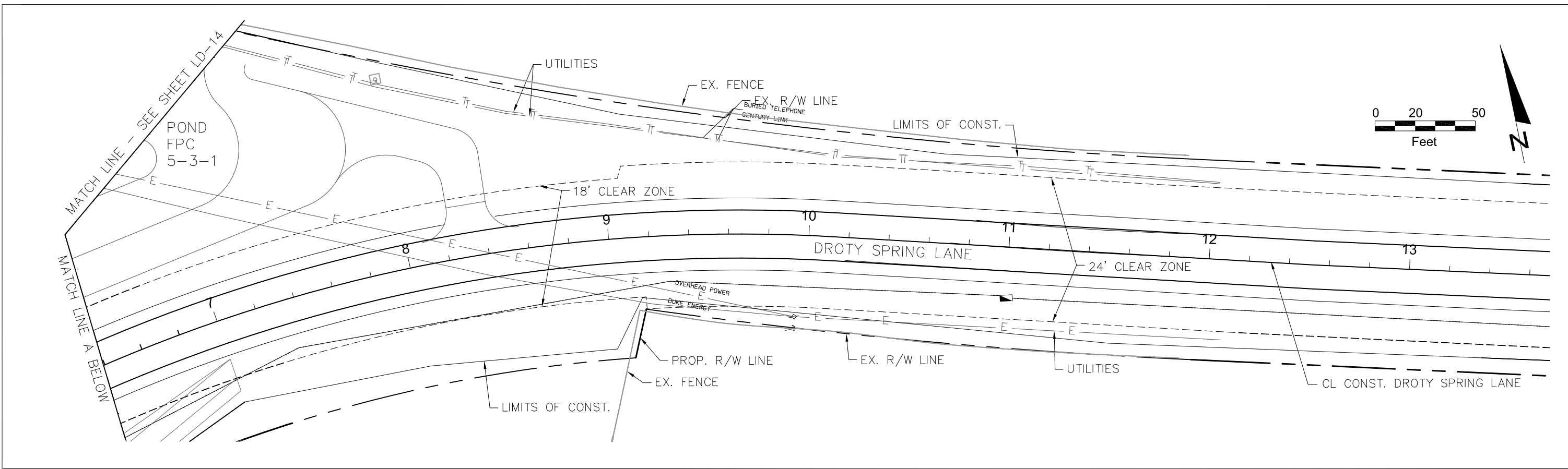
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**LANDSCAPE PLAN**

SHEET NO.  
**LD-14**

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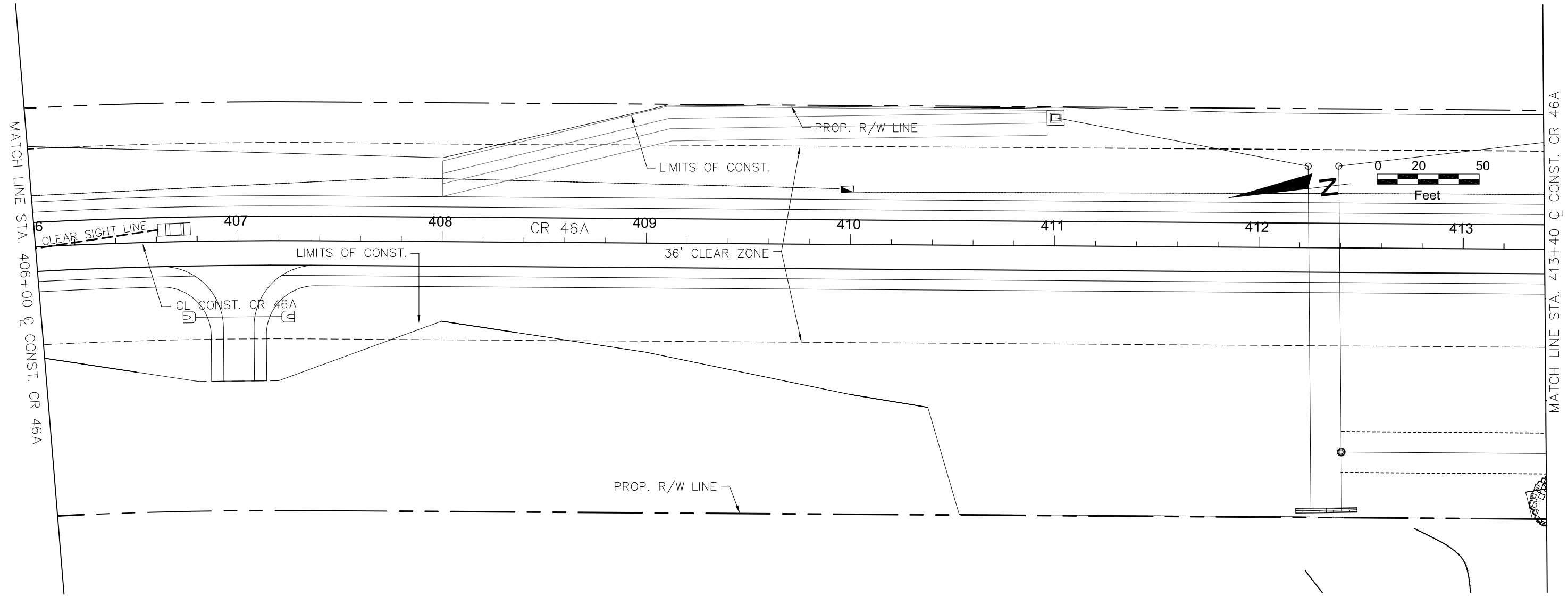
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**LANDSCAPE PLAN**

SHEET NO.  
**LD-15**

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**LANDSCAPE PLAN**

SHEET NO.  
LD-16

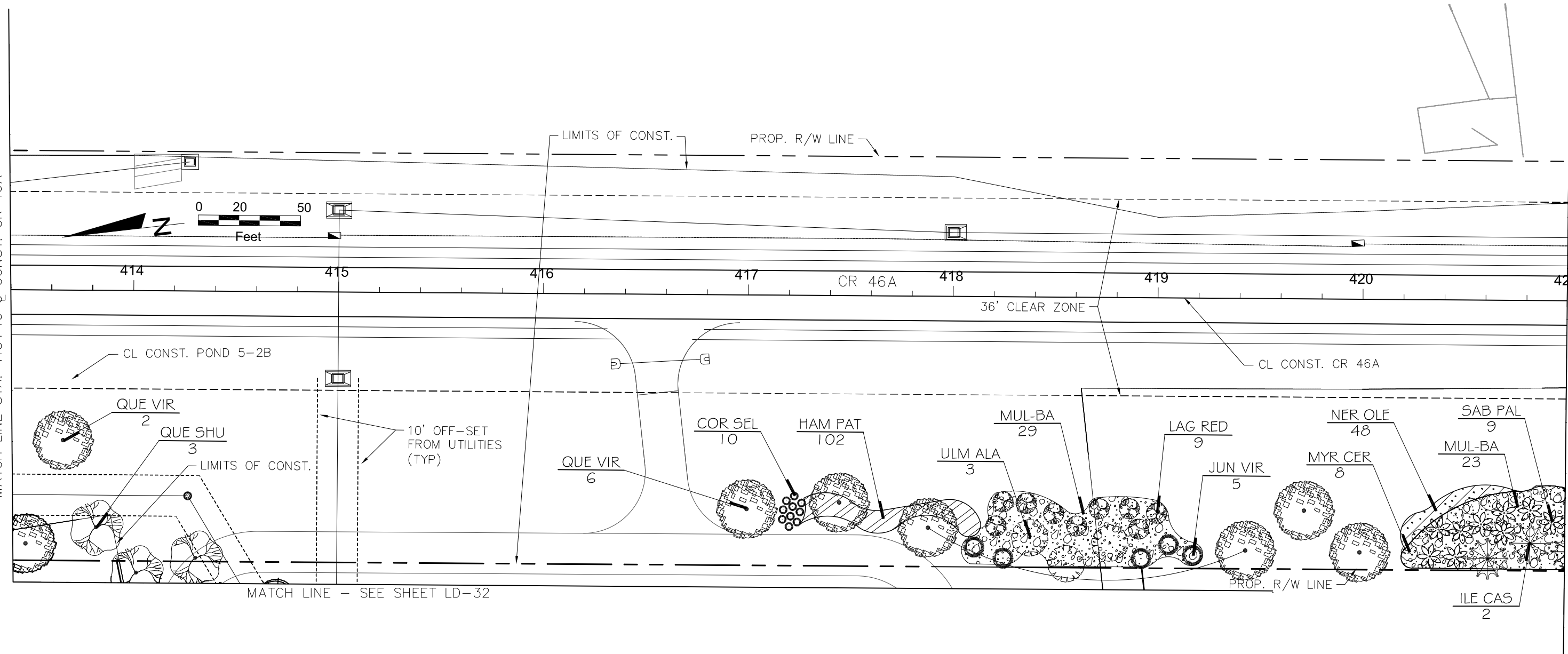
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MATCH LINE STA. 413+40 C CONST. CR 46A

MATCH LINE STA. 421+00 C CONST. CR 46A



MATCH LINE - SEE SHEET LD-32

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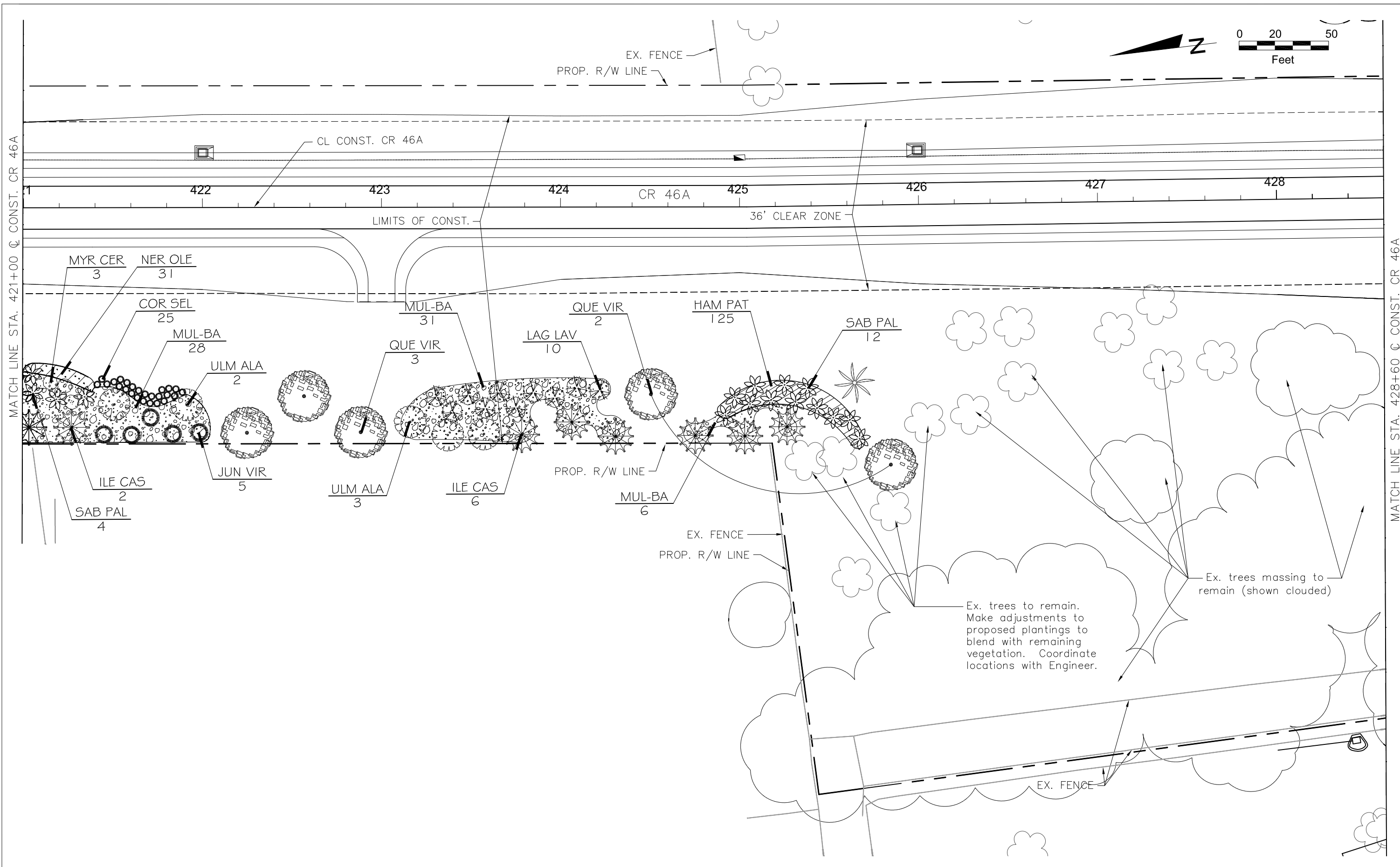
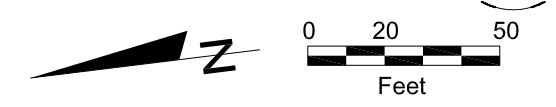
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**LANDSCAPE PLAN**

SHEET NO.  
**LD-17**

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MATCH LINE STA. 421+00 @ CONST. CR 46A

MATCH LINE STA. 428+60 @ CONST. CR 46A

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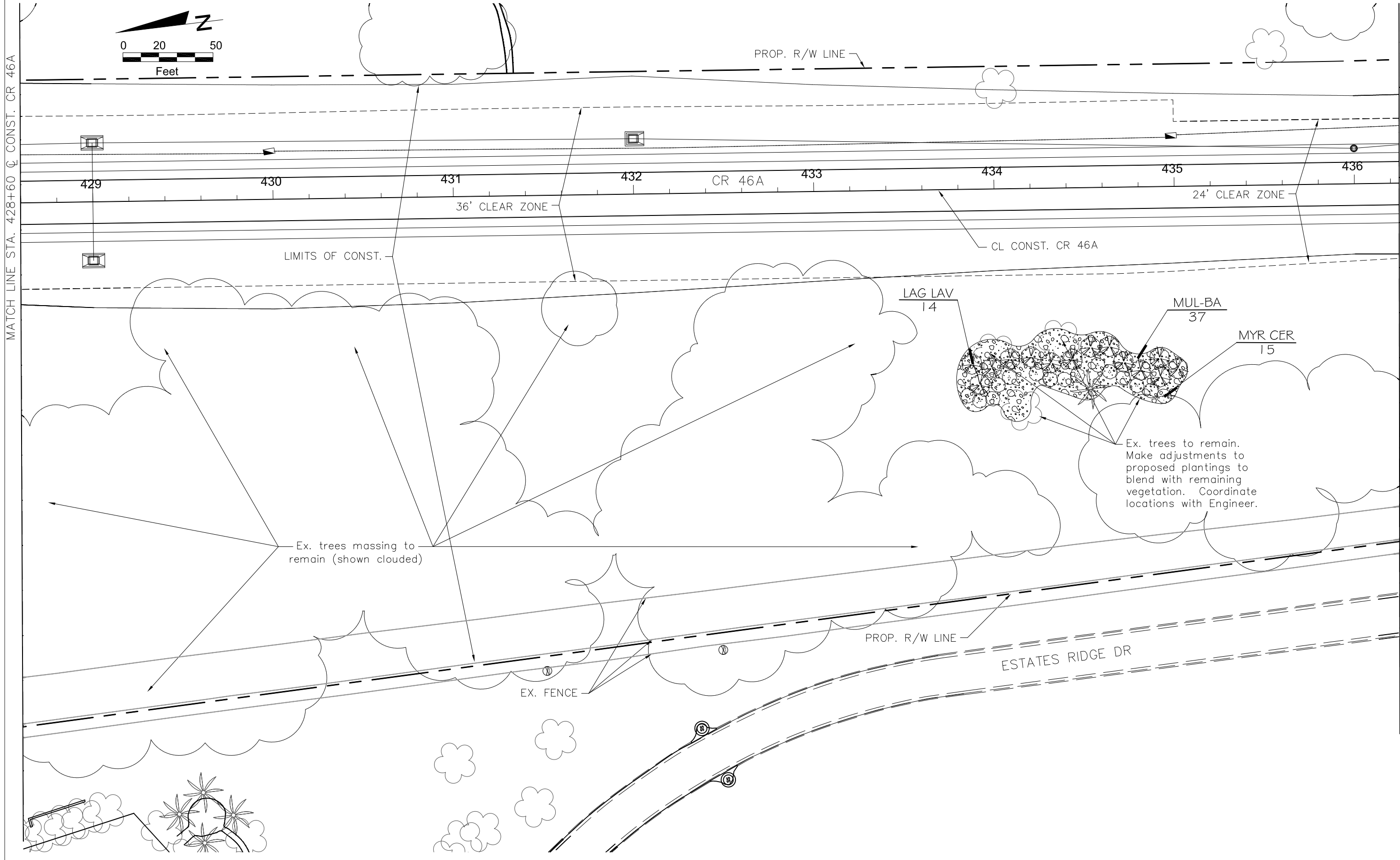
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<b>LANDSCAPE PLAN</b>		SHEET NO. <b>LD-18</b>
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**LANDSCAPE PLAN**

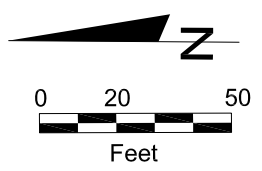
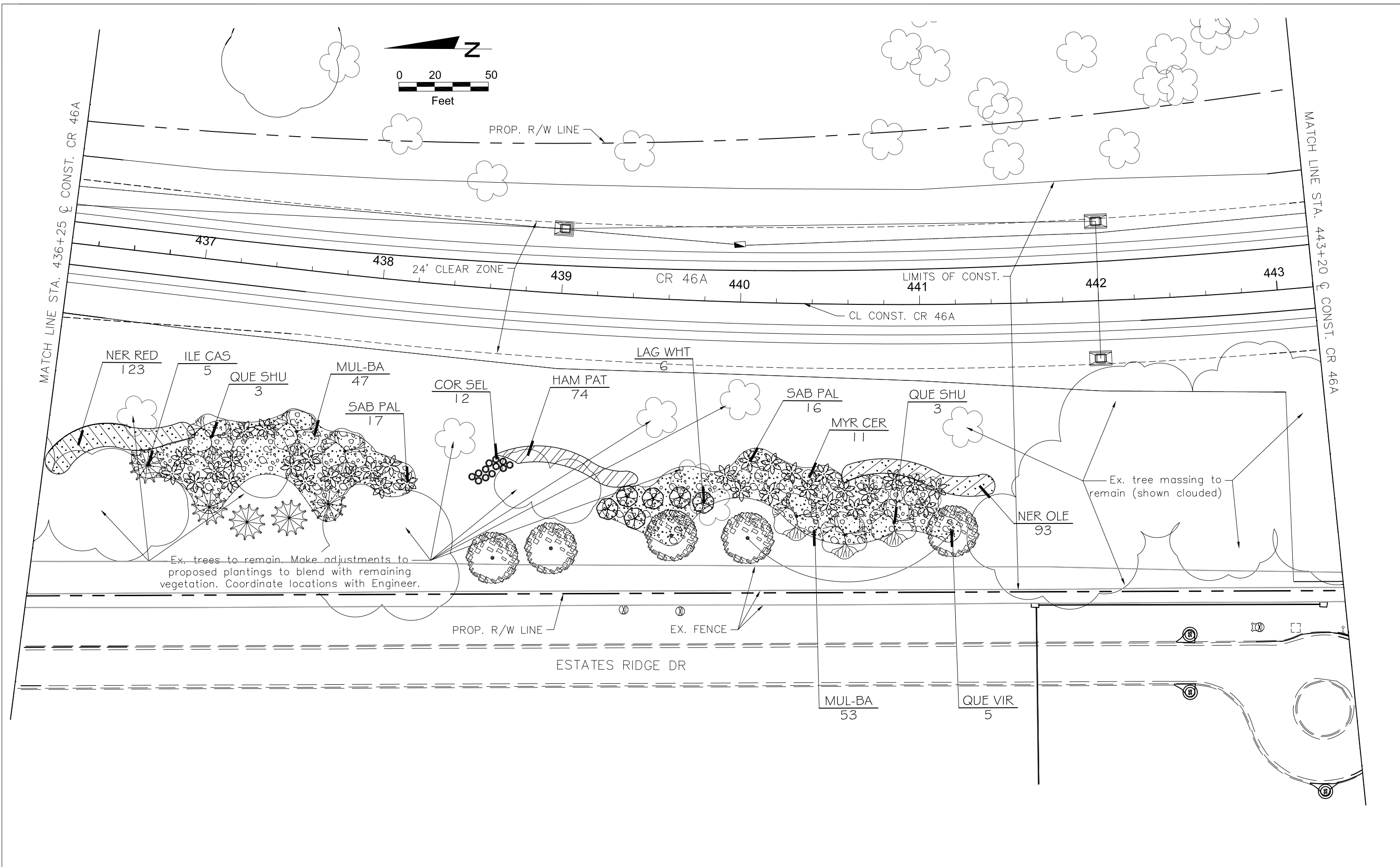
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MATCH LINE STA. 428+60 Q CONST. CR 46A

MATCH LINE STA. 436+25 Q CONST. CR 46A

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Ex. trees to remain. Make adjustments to proposed plantings to blend with remaining vegetation. Coordinate locations with Engineer.

Ex. tree massing to remain (shown clouded)

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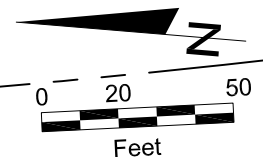
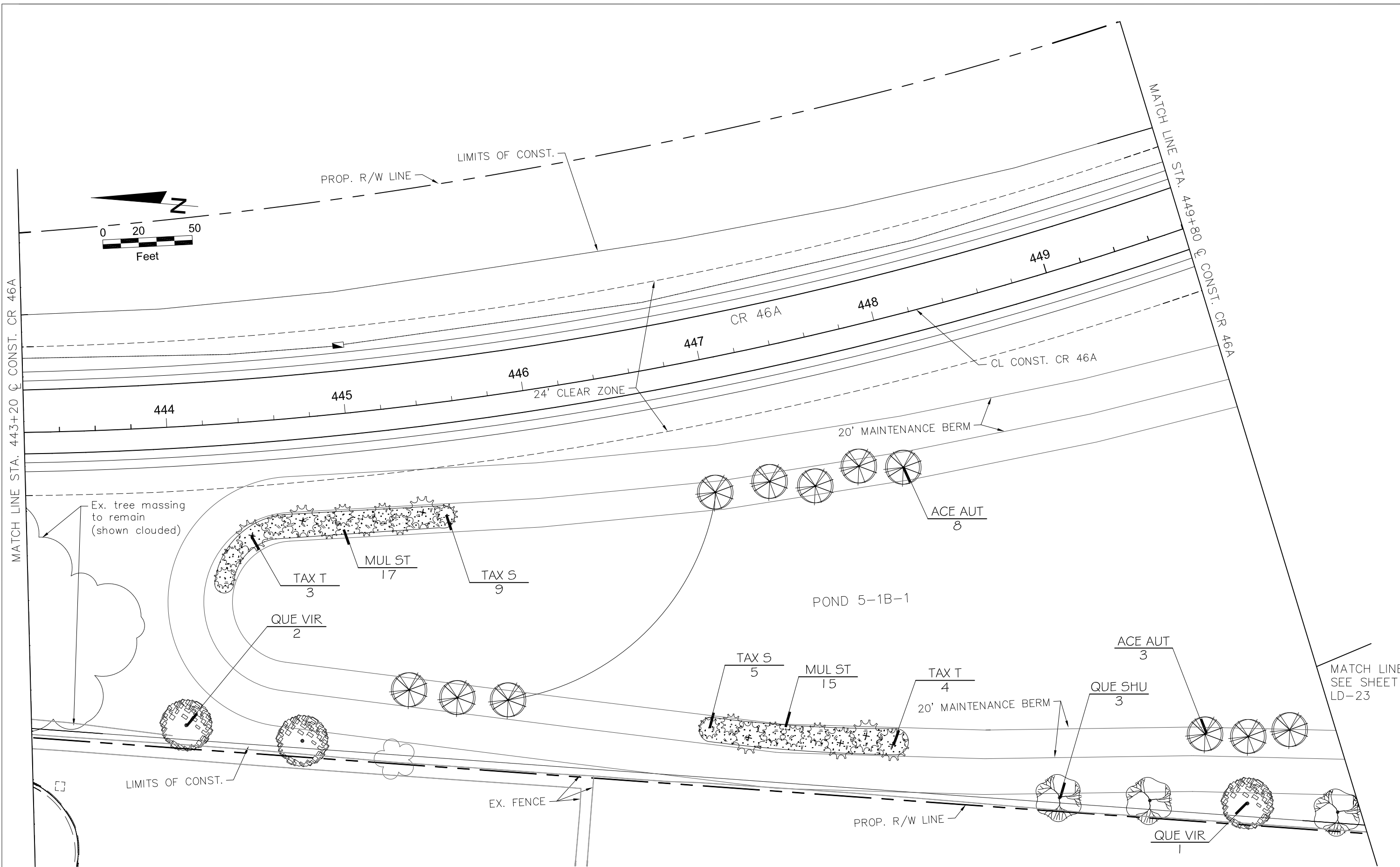
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**LANDSCAPE PLAN**

SHEET NO.  
**LD-20**

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MATCH LINE STA. 443+20 C CONST. CR 46A

MATCH LINE STA. 449+80 C CONST. CR 46A

MATCH LINE  
SEE SHEET  
LD-23

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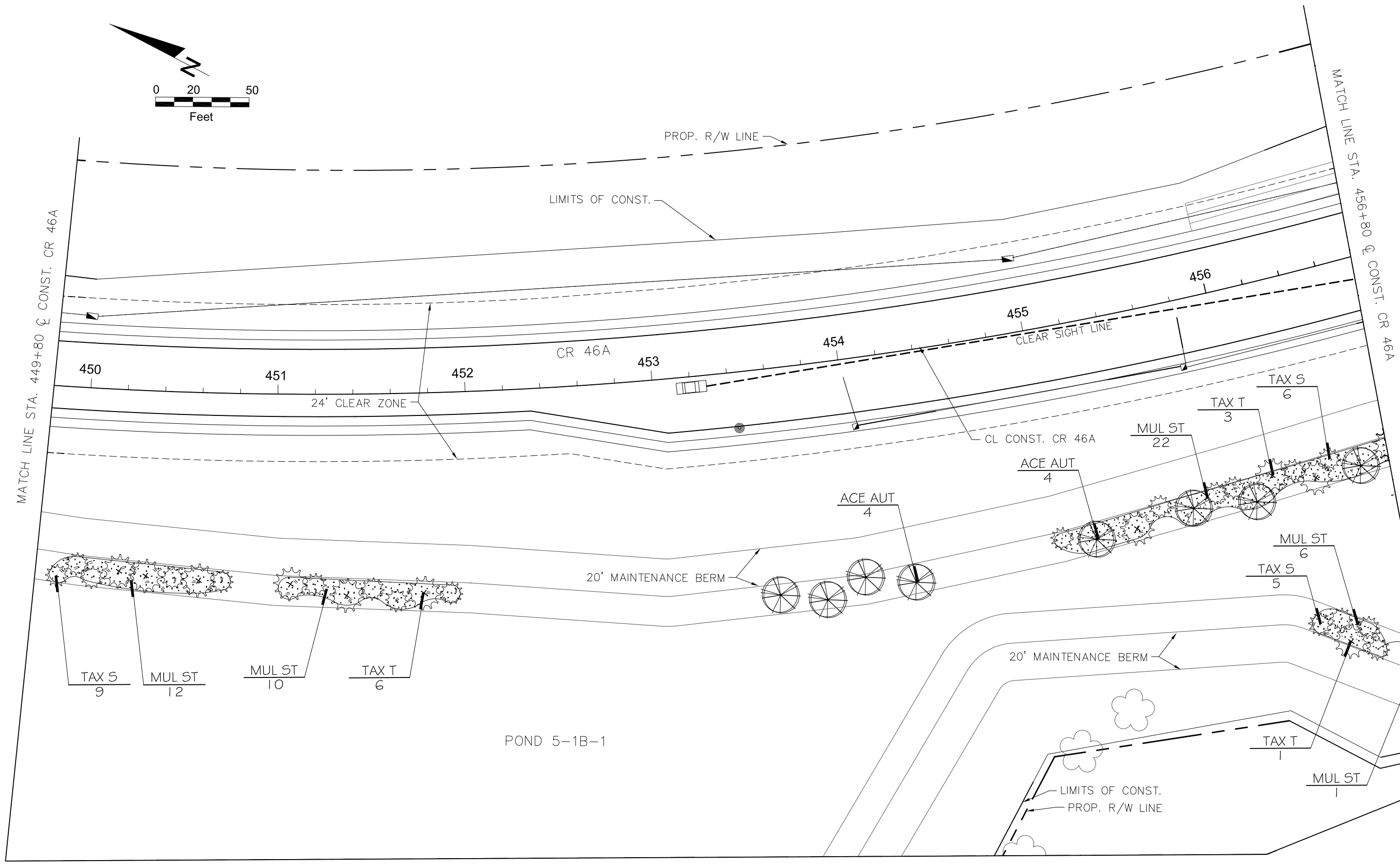
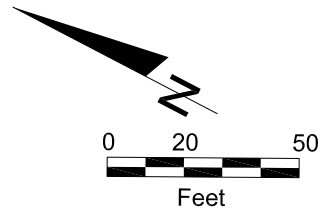
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**LANDSCAPE PLAN**

SHEET NO.  
**LD-21**

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**LANDSCAPE PLAN**

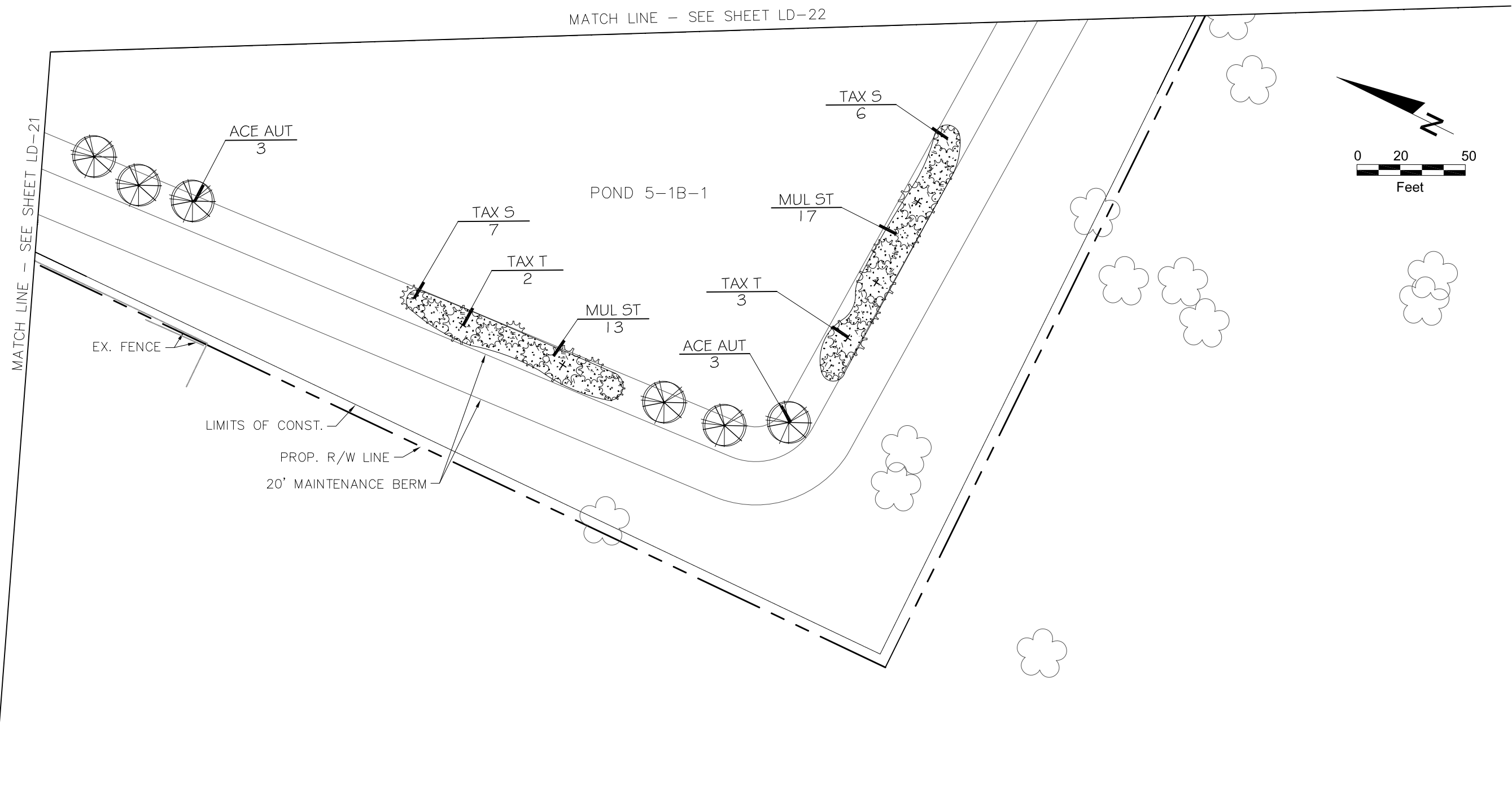
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MATCH LINE - SEE SHEET LD-22

MATCH LINE - SEE SHEET LD-21



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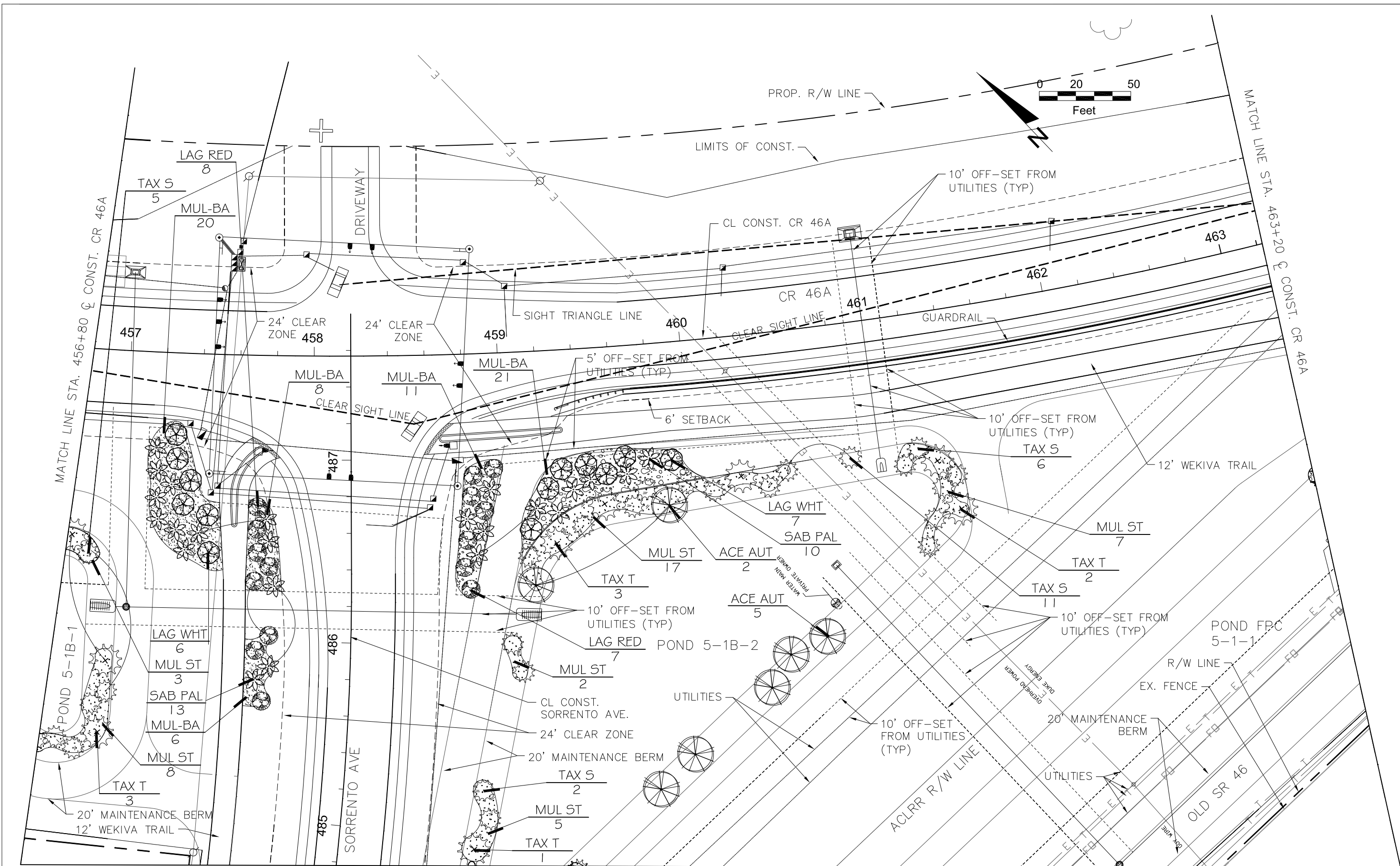
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**LANDSCAPE PLAN**

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**LD-23**

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MATCH LINE STA. 484+60 @ CONST. SORRENTO AVE.

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CR 46A	LAKE	437114-5-52-01

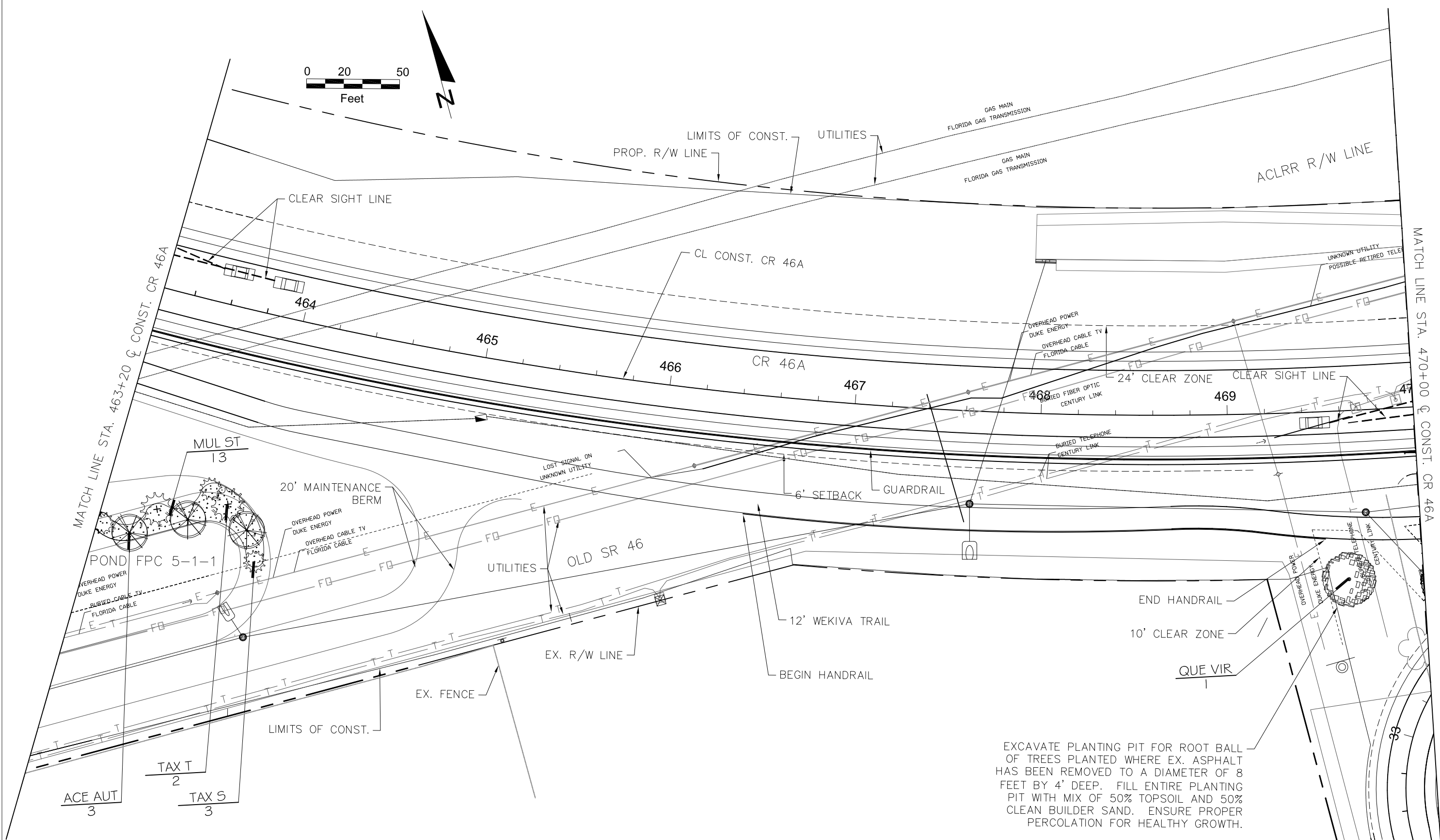
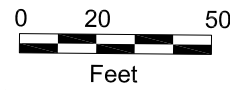
**LANDSCAPE PLAN**

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SHEET NO.  
LD-24

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EXCAVATE PLANTING PIT FOR ROOT BALL OF TREES PLANTED WHERE EX. ASPHALT HAS BEEN REMOVED TO A DIAMETER OF 8 FEET BY 4' DEEP. FILL ENTIRE PLANTING PIT WITH MIX OF 50% TOPSOIL AND 50% CLEAN BUILDER SAND. ENSURE PROPER PERCOLATION FOR HEALTHY GROWTH.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

prepared by:  
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**JOAN RANDOLPH, R.L.A.**  
 FLORIDA REG. RLA #0000576

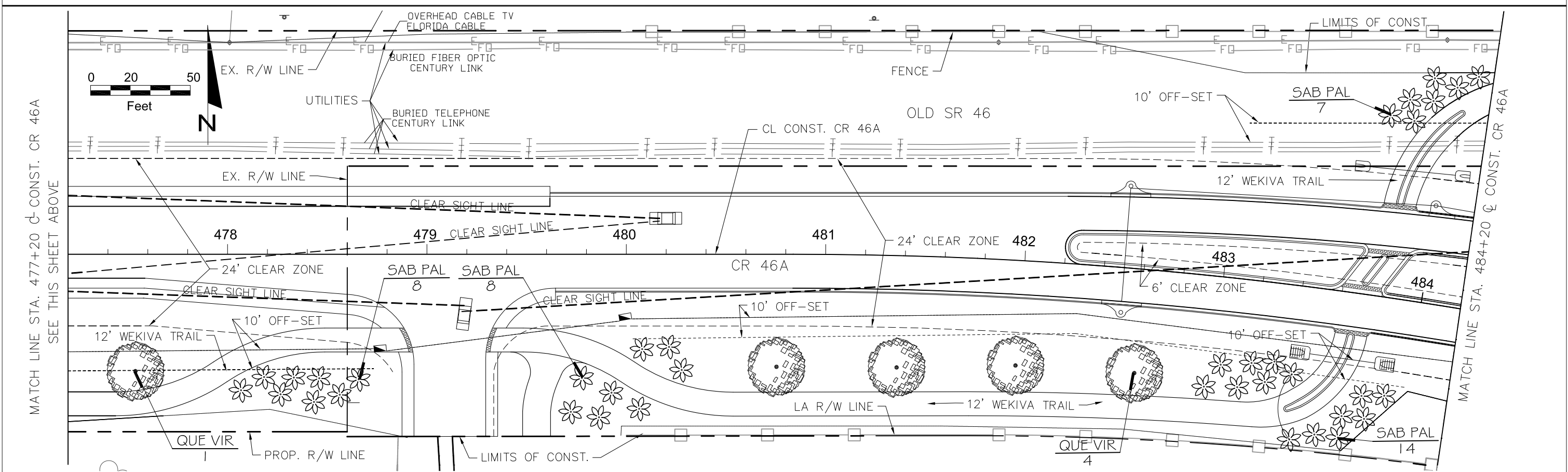
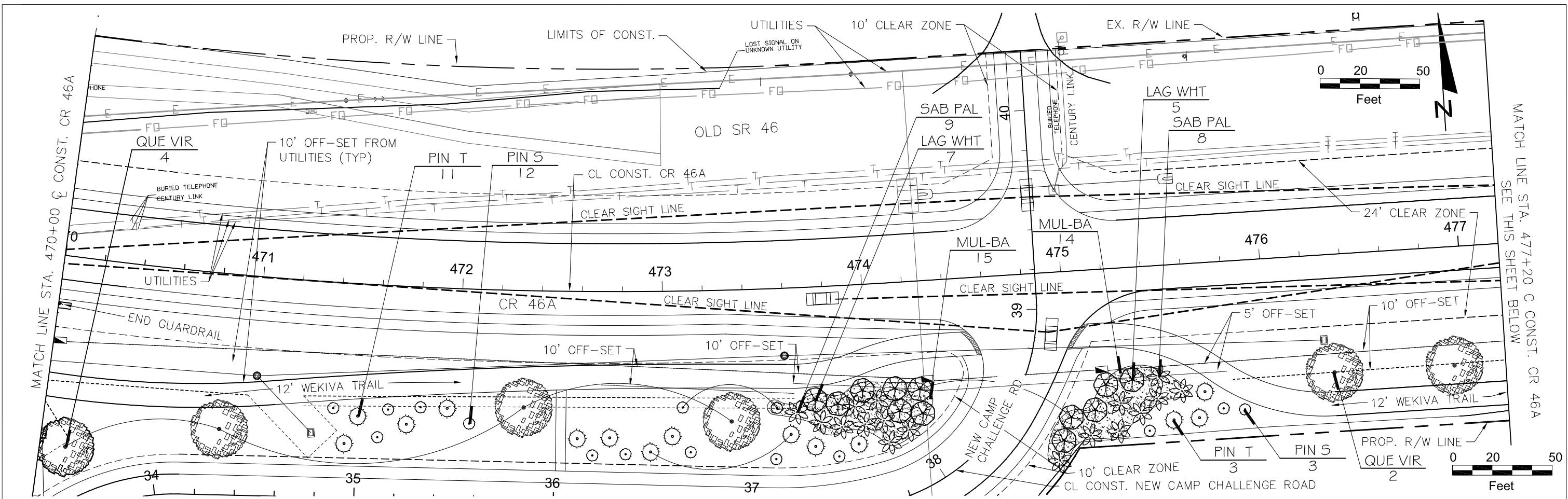
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID.
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**LANDSCAPE PLAN**

SHEET NO.  
**LD-25**

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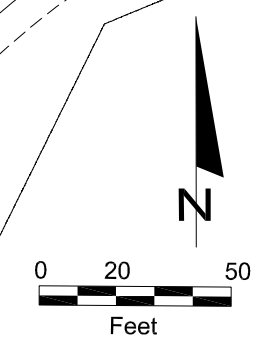
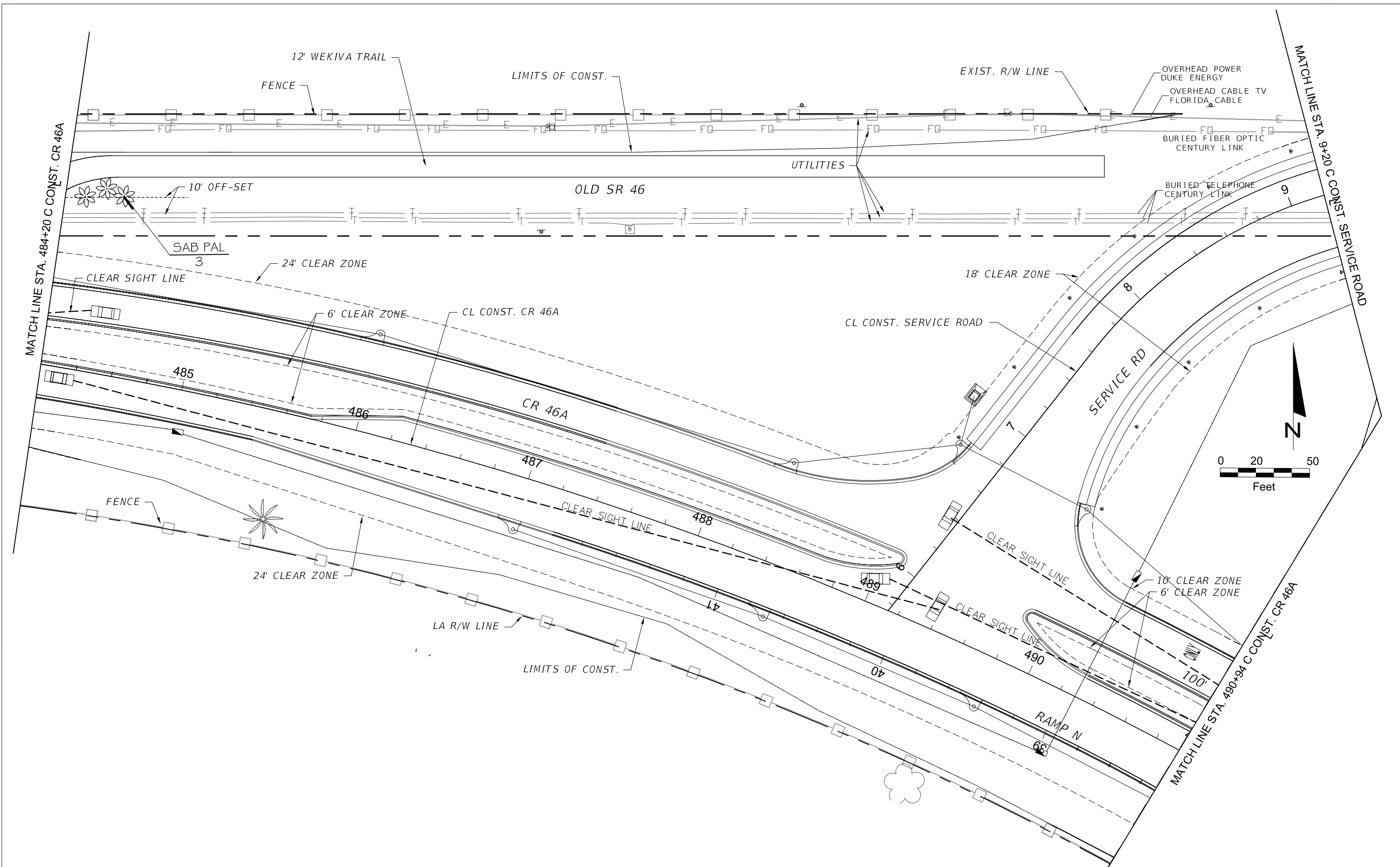
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**LANDSCAPE PLAN**

SHEET NO.  
**LD-26**

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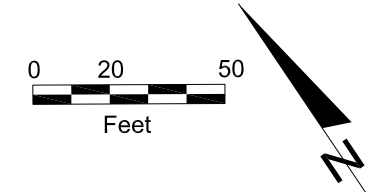
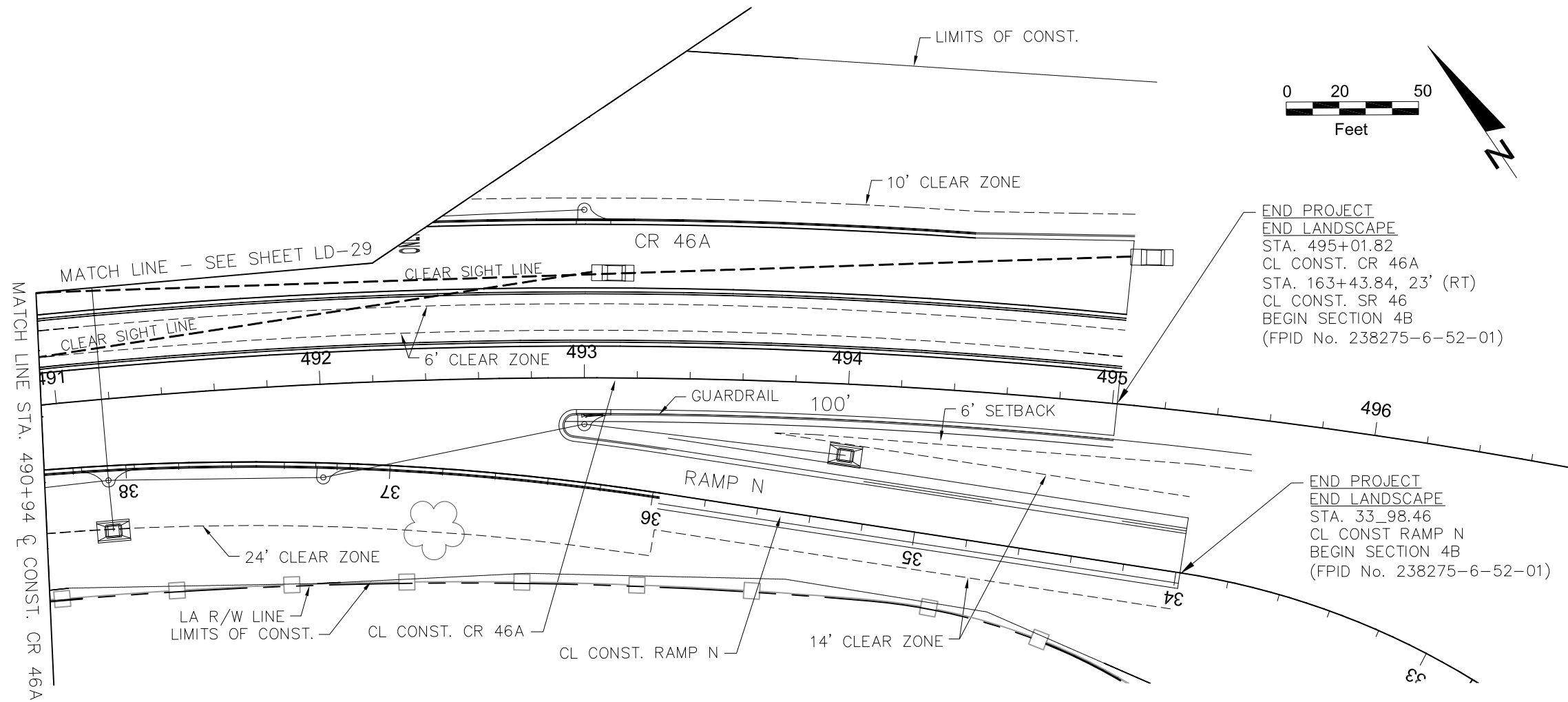
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID.
CR 46A	LAKE	437114-5-52-01

**LANDSCAPE PLAN**

SHEET NO.  
LD-27

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END PROJECT  
END LANDSCAPE  
STA. 495+01.82  
CL CONST. CR 46A  
STA. 163+43.84, 23' (RT)  
CL CONST. SR 46  
BEGIN SECTION 4B  
(FPID No. 238275-6-52-01)

END PROJECT  
END LANDSCAPE  
STA. 33\_98.46  
CL CONST RAMP N  
BEGIN SECTION 4B  
(FPID No. 238275-6-52-01)

NO LANDSCAPE THIS SHEET

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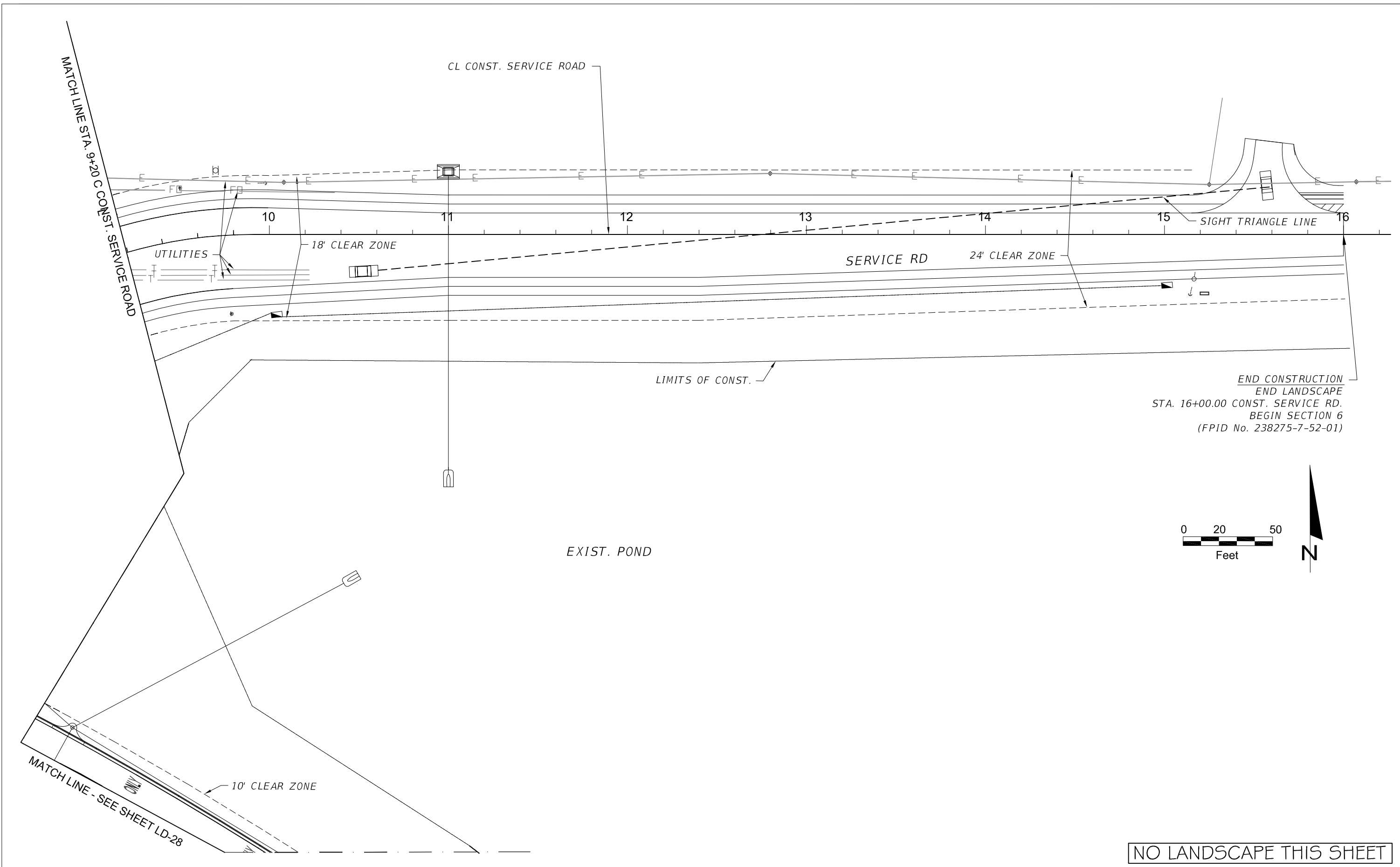
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID.
CR 46A	LAKE	437114-5-52-01

**LANDSCAPE PLAN**

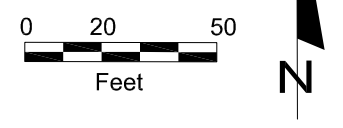
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END CONSTRUCTION  
 END LANDSCAPE  
 STA. 16+00.00 CONST. SERVICE RD.  
 BEGIN SECTION 6  
 (FPID No. 238275-7-52-01)



NO LANDSCAPE THIS SHEET

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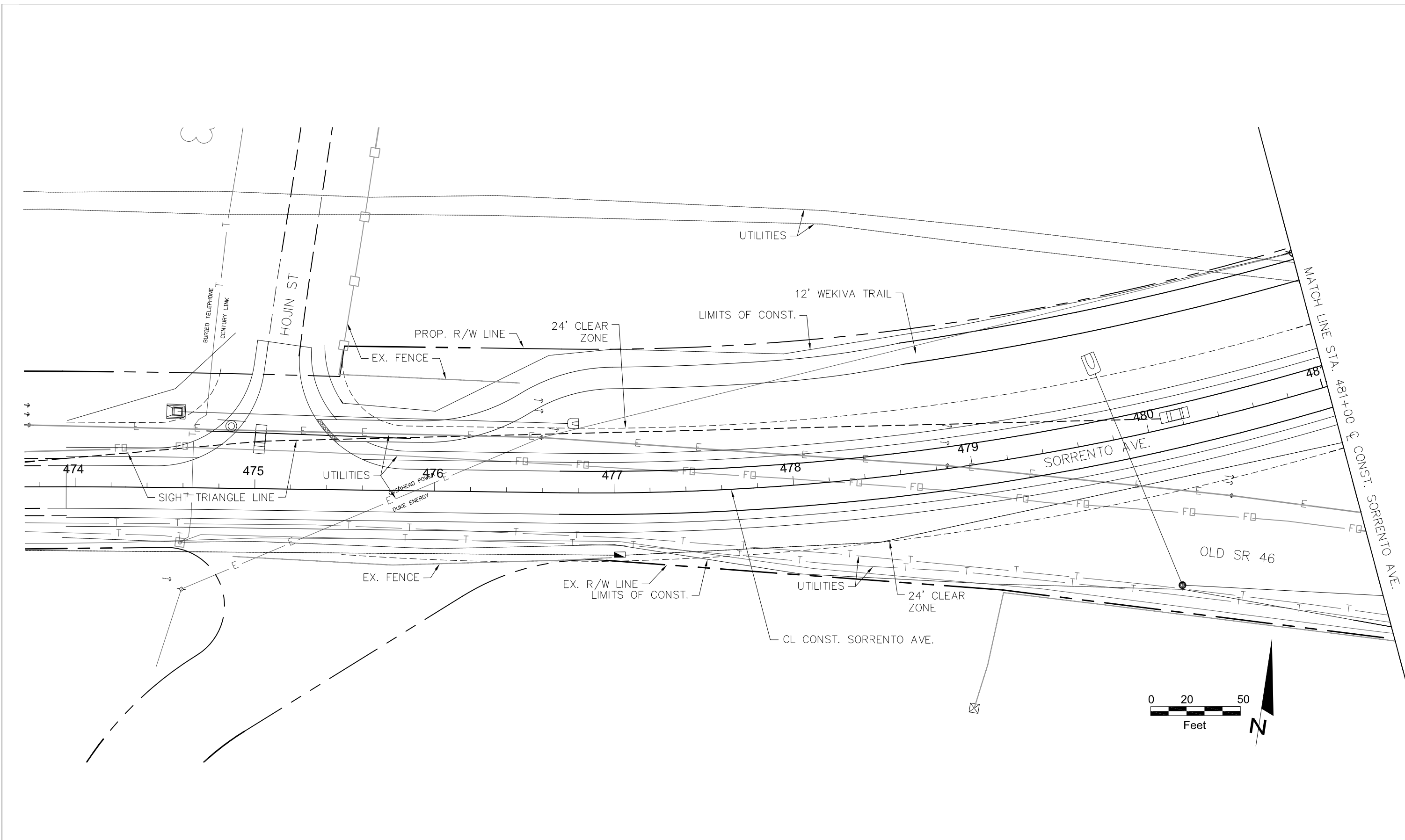
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID.
CR 46A	LAKE	437114-5-52-01

**LANDSCAPE PLAN**

SHEET NO.  
**LD-29**

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NO LANDSCAPE THIS SHEET

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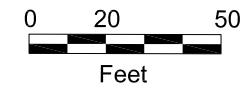
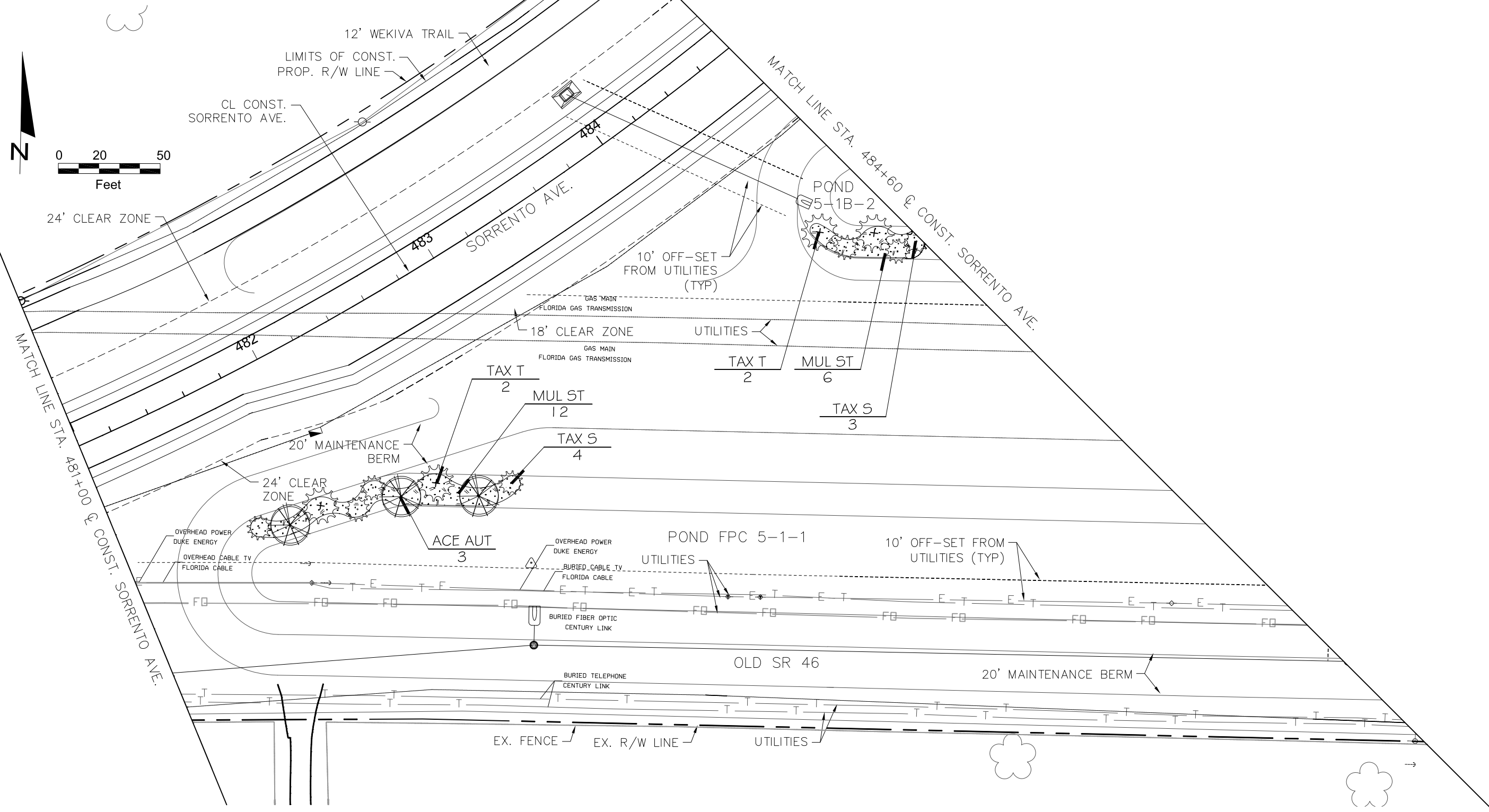
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID.
CR 46A	LAKE	437114-5-52-01

**LANDSCAPE PLAN**

SHEET NO.  
LD-30

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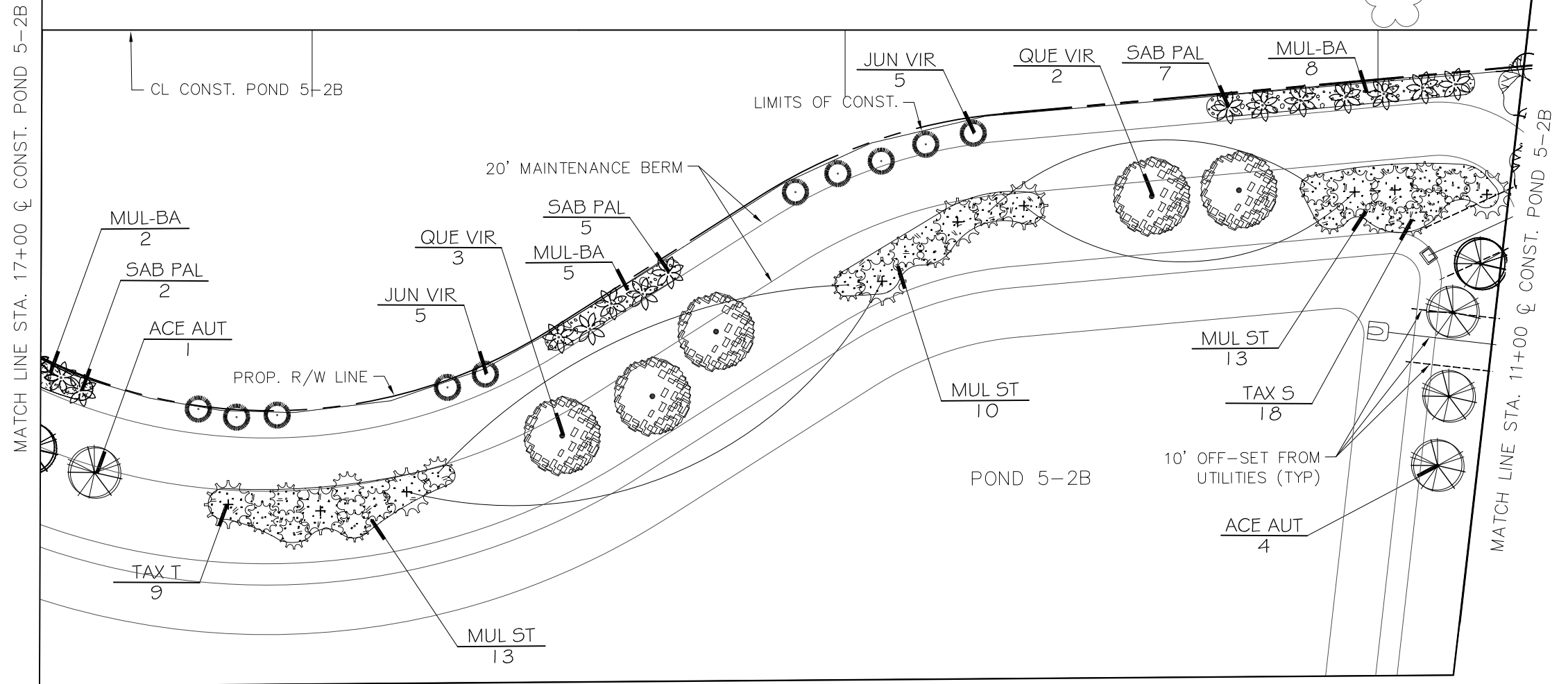
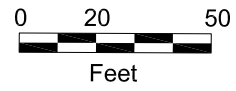
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID.		
						CR 46A	LAKE	437114-5-52-01			

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MATCH LINE POND 5-2B  
SHEET LD-33

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID.
CR 46A	LAKE	437114-5-52-01

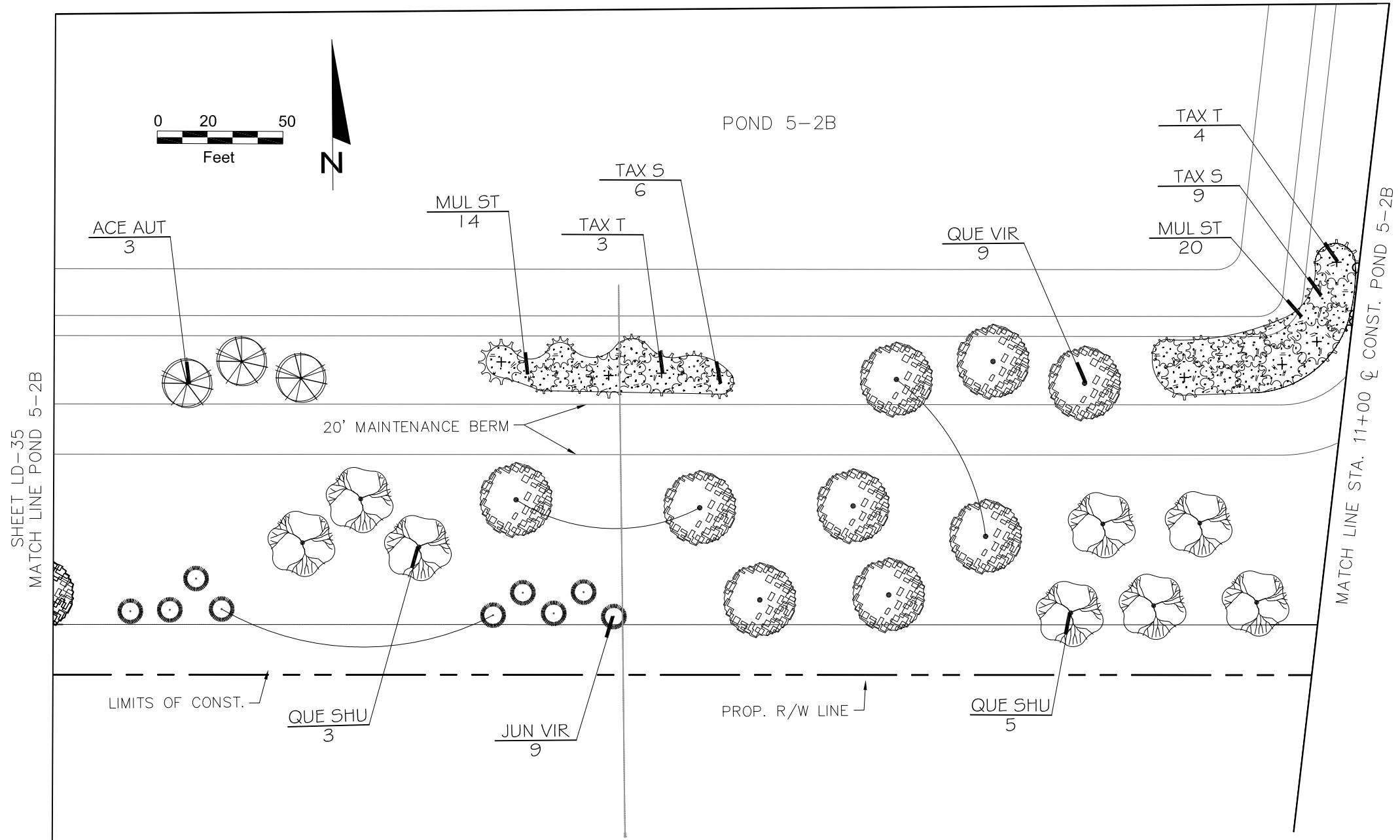
**LANDSCAPE PLAN**

SHEET NO.  
**LD-32**

\$USER\$      \$DATE\$      \$TIME\$      \$FILE\$



SHEET LD-32  
MATCH LINE POND 5-2B



SHEET LD-35  
MATCH LINE POND 5-2B

MATCH LINE STA. 11+00 & CONST. POND 5-2B

REVISIONS					
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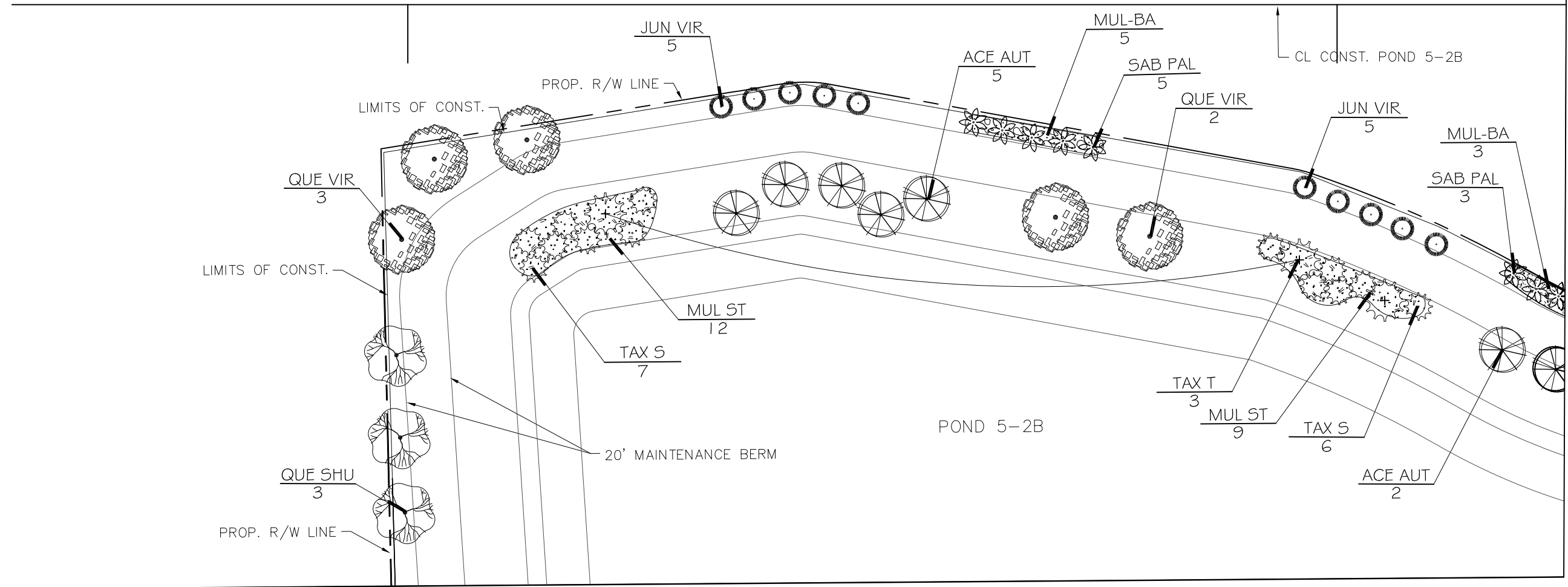
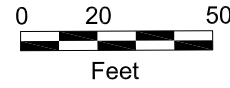
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID.
CR 46A	LAKE	437114-5-52-01

**LANDSCAPE PLAN**

SHEET NO.  
**LD-33**

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MATCH LINE STA. 17+00 @ CONST. POND 5-2B

MATCH LINE POND 5-2B  
SHEET LD-35

REVISIONS					
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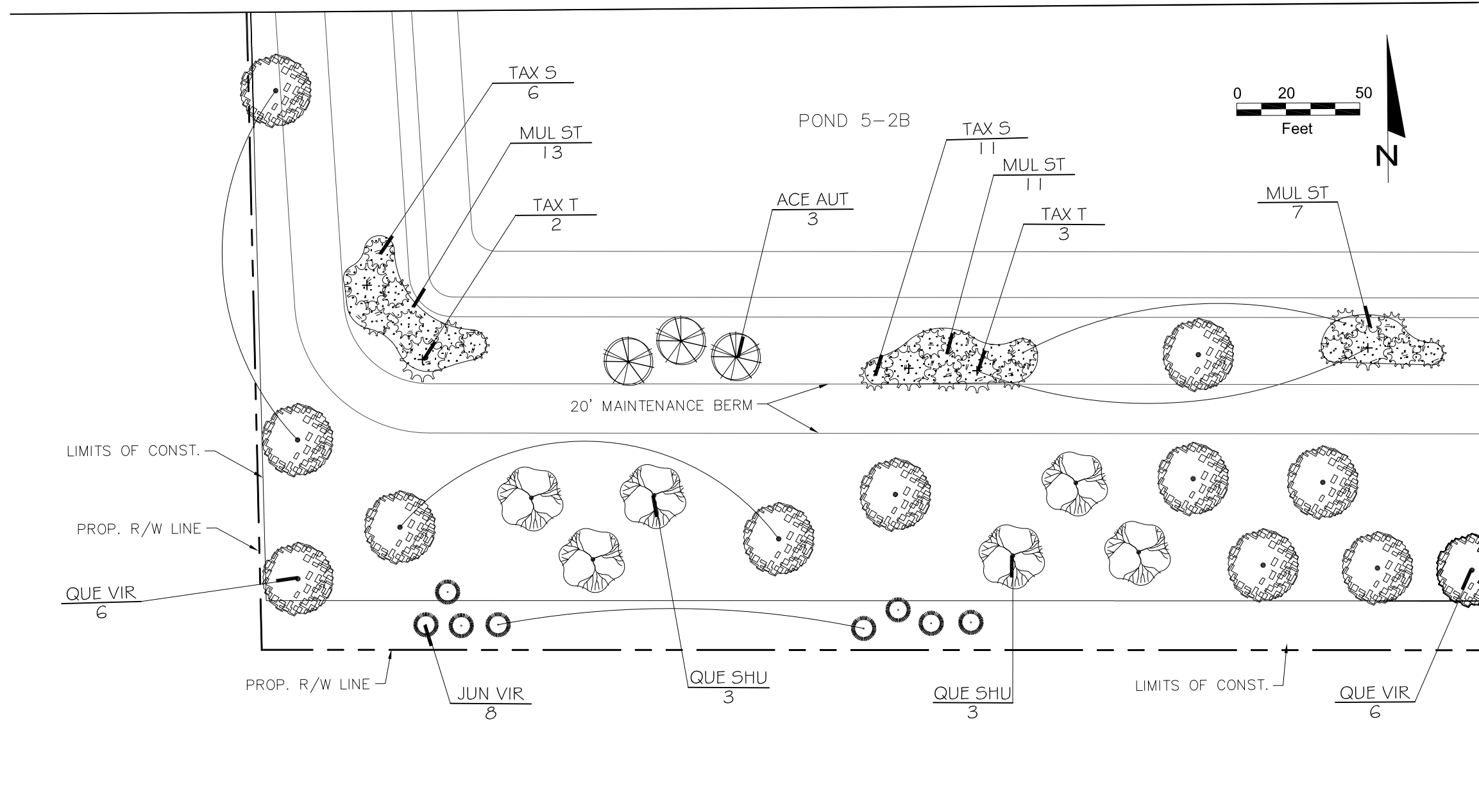
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID.
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**LANDSCAPE PLAN**

SHEET NO.  
**LD-34**

\$USER\$      \$DATE\$      \$TIME\$      \$FILE\$

MATCH LINE POND 5-2B  
SHEET LD-34



MATCH LINE POND 5-2B  
SHEET LD-33

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CR 46A	LAKE	437114-5-52-01

**LANDSCAPE PLAN**

SHEET NO.  
**LD-35**

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**LANDSCAPE TECHNICAL MAINTENANCE PLAN - ESTABLISHMENT PERIOD** –Plan Frequencies shall be taken as guidelines. In no event shall plant material fall below Fla. #1 Grades and Standards.

MAINTENANCE OPERATION	MINIMUM MAINTENANCE FREQUENCIES												REMARKS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
EDGING	1	1	1	2	2	2	2	2	2	1	1	1	MECHANICAL EDGING SHALL APPLY TO TREE RINGS, WALKWAYS, PAVEMENT, CURB, AND CURBED MEDIANS.
FERTILIZATION	SEE REMARKS												FERTILIZE IN ACCORDANCE WITH FDOT SPECIFICATION 580-3.5. CONTRACTOR TO SUBMIT LABELS AND MSDS SHEETS FOR ALL CHEMICALS APPLIED ON PROJECT DURING ESTABLISHMENT PERIOD TO THE DEPARTMENT'S DESIGNATED REPRESENTATIVE.
WEEDING/CLEANING													MAINTAIN BEDS WEED FREE AT ALL TIMES. REMOVE ANY DEAD OR BROKEN BRANCHING OF SHRUB AND GROUND COVER MATERIAL.
MOWING	1	1	1	2	2	2	2	2	2	1	1	1	MOW AFTER LITTER REMOVAL BUT WITH EDGING. SOD SHALL NOT BE HIGHER THAN 3.5' MEASURED FROM SOIL LEVEL.
INSECT AND PEST CONTROL	1	1	1	2	2	2	2	2	2	1	1	1	INSPECT ALL PALMS, TREES AND SHRUBS FOR INFESTATION ON A MONTHLY BASIS FOR INSECTS, GRUBS, MITES, FUNGUS, MOLD, ETC. APPLY FUNGICIDE AND PESTICIDES NEEDED PER MANUFACTURER'S SPECIFICATIONS. ALL MATERIALS AND PERFORMANCE OF WORK SHALL MEET STATE AND FEDERAL HEALTH AND SAFETY LAWS; ALL CHEMICALS SHALL BE APPLIED BY A LICENSED APPLICATOR WITH THE FOLLOWING QUALIFICATION CATEGORIES: CORE, 6 ROW, 3 ORNAMENTAL AND TURF, SA AQUATIC.
PRUNING TREES AND PALMS	1	1	1	1	1	1	1	1	1	1	1	1	TREES: PRUNE AS SCHEDULED TO MAINTAIN HORIZONTAL AND VERTICAL CLEARANCE (FDOT STANDARD INDEX 544, 546 AND 700) AND TO REMOVE ALL SUCKERS, DEAD, DISEASED OR BROKEN BRANCHES. TREE PRUNING SHALL CONFORM TO STANDARDS FOR TREE TRIMMING, ANSI 300 OF ISA BY AN ISA CERTIFIED ARBORIST. PALMS: PRUNE AS NEEDED, BY AN ISA CERTIFIED ARBORIST TO REMOVE BROKEN OR DEAD FRONDS AND FLOWER/SEED STALKS.
SHRUBS AND ORNAMENTAL GRASSES	1	1	1	1	1	1	1	1	1	1	1	1	SHRUBS: PRUNE AS SCHEDULED PER FLORIDA'S COOPERATIVE EXTENSION SERVICE (TFAS) GUIDELINES USING APPROPRIATE TOOLS. MAINTAIN VERTICAL CLEARANCE PER FOOT STANDARD INDEX 546. ORNAMENTAL GRASSES: CUT BACK ALL IN MARCH TO 6 INCHES. REMOVE ALL CUTTINGS FROM PROJECT SITE TO REDUCE FIRE HAZARD.
LITTER REMOVAL	1	1	1	2	2	2	2	2	2	1	1	1	PERFORM LITTER REMOVAL IN ACCORDANCE WITH FOOT SPECIFICATION 107. REMOVE LITTER IN ALL AREAS WITHIN THE PROJECT LIMITS.
MULCH MULCH AND SOIL COUNCIL CERTIFIED	SEE REMARKS												MAINTAIN MINIMUM MULCH DEPTHS FOR ALL PLANT MATERIAL THROUGHOUT ESTABLISHMENT PERIOD AS SPECIFIED IN THE LANDSCAPE PLAN. SPOT CHECK DEPTH DURING MONTHLY INSPECTIONS AND REPLENISH AS NEEDED TO MAINTAIN MULCH DEPTH THROUGHOUT ESTABLISHMENT PERIOD; GIVE SPECIAL ATTENTION TO SLOPES AFTER MAJOR RAIN EVENTS. PERFORM 2 FULL MULCH CYCLES AS FOLLOWS: 1 CYCLE @ 6 MONTHS AND 1 CYCLE @ 12 MONTHS PRIOR TO FINAL INSPECTION. MULCH SHALL BE MULCH AND SOIL COUNCIL CERTIFIED. FINAL APPROVAL OF MULCH TYPE WILL BE MADE BY OWNER.
WATER SAUCERS, STAKE AND GUYS	1	1	1	1	1	1	1	1	1	1	1	1	MONITOR AND REPAIR WATER SAUCERS THROUGHOUT THE ESTABLISHMENT PERIOD. MAINTAIN TREES AND PALMS UPRIGHT, WITH STAKES / GUYS MAINTAINED AS PER FOOT STANDARD DETAILS THROUGHOUT ESTABLISHMENT PERIOD. UNLESS OTHERWISE DIRECTED, ALL STAKES AND GUY, NURSERY POLES, AND FLAGGING TAPE SHALL BE REMOVED FROM TREES AND PALMS PRIOR TO THE FINAL WALK-THROUGH AT THE END OF THE 12-MONTH PLANT WARRANTY PERIOD.
WATERING FOR TREES, PALMS SHRUBS, GROUND COVER	SEE REMARKS												WATERING SHALL BE IN ACCORDANCE WITH FOOT SPECIFICATION 580-3.5. CONTRACTOR SHALL SUPPLY WATERING VIA METHOD TO MAINTAIN HEALTH OF PLANTS IN ACCORDANCE WITH FOOT SPECIFICATION 580.

REFER TO FOOT SPECIFICATION 580 FOR INSPECTION REQUIREMENTS.

**MAINTENANCE NOTES:**

1) DURING THE PLANT ESTABLISHMENT AND WARRANTY PERIOD THE CONTRACTOR IS RESPONSIBLE FOR LANDSCAPE MAINTENANCE. MAINTENANCE SHALL INCLUDE REGULAR EDGING AROUND TREE RINGS AND PLANT AND MULCH BEDS; WEED AND INSECT CONTROL; REPAIR OF TREE PLANTING SAUCERS; TREE PRUNING TO REMOVE SUCKERS, DEAD AND DAMAGED LIMBS, AND TO MAINTAIN PROPER SIGHTLINE CLEARANCE IN APPROPRIATE AREAS; GUY WIRE /STAKING TIGHTENING AND REPAIR; AND MULCHING, ALL PER THE MAINTENANCE SCHEDULE SHOWN.

2) DURING THE MAINTENANCE PERIOD THE CONTRACTOR IS RESPONSIBLE FOR IRRIGATION SYSTEM MAINTENANCE AND FOR ENSURING CONTINUOUS OPERATION OF THE SYSTEM. MAINTENANCE SHALL INCLUDE CHECKING AND ADJUSTING ALL SPRINKLER HEADS FOR PROPER FLOW; ADJUSTING AND RE-ADJUSTING CONTROLLER; CHECKING AND ADJUSTING RAIN SENSOR FOR PROPER OPERATION; AND REPAIRING PIPE BREAKS AND EQUIPMENT MALFUNCTIONS PROMPTLY UPON DISCOVERY OR NOTIFICATION.

3) AT 12-MONTHS INTO AND AT THE END THE PLANT WARRANTY PERIOD BEFORE THE INSPECTION FOR FINAL ACCEPTANCE, EDGE ALL BEDLINES AND TREE RINGS, REPLENISH MULCH TO DEPTHS INDICATED IN ALL TREE RINGS AND PLANTING BEDS, REMOVE ALL TREE GUYING AND STAKING MATERIAL.

4) THE ENGINEER IN CONJUNCTION WITH THE CITY OF ORLANDO REPRESENTATIVE AND THE CONTRACTOR WILL CONDUCT MONTHLY INSPECTIONS DURING THE 24-MONTH MAINTENANCE PERIOD. ANY PLANT MATERIAL MISSING OR LESS THAN FLORIDA GRADE NUMBER ONE (1) CONDITION AT TIME OF INSPECTION SHALL BE REPLACED AT NO CHARGE TO THE CITY WITHIN 7 DAYS OF WRITTEN NOTIFICATION TO CONTRACTOR. IRRIGATION SYSTEM WILL BE INSPECTED FOR PROPER OPERATION AND DEFICIENCIES SHALL BE CORRECTED WITHIN 7 DAYS OF THE INSPECTION. AFTER INSPECTIONS, THE CONTRACTOR SHALL PROVIDE A WRITTEN REPORT INDICATING DEFICIENCIES NOTED, WORK TO BE PERFORMED, AND SPECIFIC ITEMS TO BE MONITORED.

REVISIONS						prepared by: JCR CONSULTING P.O. BOX 941994 MAITLAND, FLORIDA 32794 Ph (407) 644-5297 Fax (407) 644-3274  JOAN RANDOLPH, R.L.A. FLORIDA REG. RLA #0000576	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.  <b>MAINTENANCE PLAN</b>  LD-36
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID.	
						CR 46A	LAKE	437114-5-52-01		
						\$USER\$	\$DATE\$	\$TIME\$	\$FILE\$	

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