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**UTILITY CONTACT LISTING**

AT&T FLORIDA (DISTRIBUTION) JASON BOCK 5100 STEYR ST. ORLANDO, FL 32819 (407) 351 8180	GAINESVILLE REGIONAL UTILITIES - ELECTRIC RENEE ZAMOT-AYALA P.O. BOX# 147117 STATION#A105 GAINESVILLE, FL 32614-7118 (352) 334 6039
AT&T CORP (TRANSMISSION) CRAIG PETRIE 6000 METROWEST BLVD. SUITE 1500 ORLANDO, FL 32801 (407) 578 8000	GAINESVILLE REGIONAL UTILITIES - GAS JOHN ZOLTEK P.O. BOX #147117 STATION #A105 GAINESVILLE, FL 32614 (352) 334 6021
CITY OF GAINESVILLE TRAFFIC MGMT SYSTEM PO BOX 490 STA 5 GAINESVILLE, FL 32627 (352) 393 8429	GAINESVILLE REGIONAL UTILITIES - WATER / WASTEWATER / RECLAIMED WATER BRANDON LAWHERN P.O. BOX# 147117 STATION#A105 GAINESVILLE, FL 32614-7118 (352) 363 7652
COX CABLE - ALACHUA WILLIAM SMITH 6020 NW 43RD ST GAINESVILLE, FL 32653 (352) 275 2448	TRAFFIC CONTROL DEVICES DAVID NAGESAR 2409 PICKETTVILLE RD JACKSONVILLE, FL 32220 (904) 693 9291
GAINESVILLE REGIONAL UTILITIES - COMMUNICATIONS MIKE CHAPPELL P.O. BOX #147117 STATION E1D GAINESVILLE, FL 32614 (352) 393 6923	

GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION DATED FY 2024-25, AND FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED FY 2024-25, AS AMENDED BY CONTRACT DOCUMENTS.

**PROJECT OWNER AND CONSULTANTS**

<b>OWNER/DEVELOPER/APPLICANT:</b> CITY OF GAINESVILLE 200 EAST UNIVERSITY AVE GAINESVILLE FL 32601 (352) 334-5000	<b>GEOTECH:</b> GSE ENGINEERING & CONSULTANT, Inc 5590 SW 64TH STREET, SUITE B GAINESVILLE FL 32608 (352) 377-3233
<b>CIVIL ENGINEERING CONSULTANT:</b> KIMLEY-HORN AND ASSOCIATES, INC. 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601 (352) 374-3274	<b>SURVEYOR:</b> DEGROVE, INC. 605 N.W. 53RD AVENUE, SUITE A11A, GAINESVILLE, FL 32609 (352) 338-9677

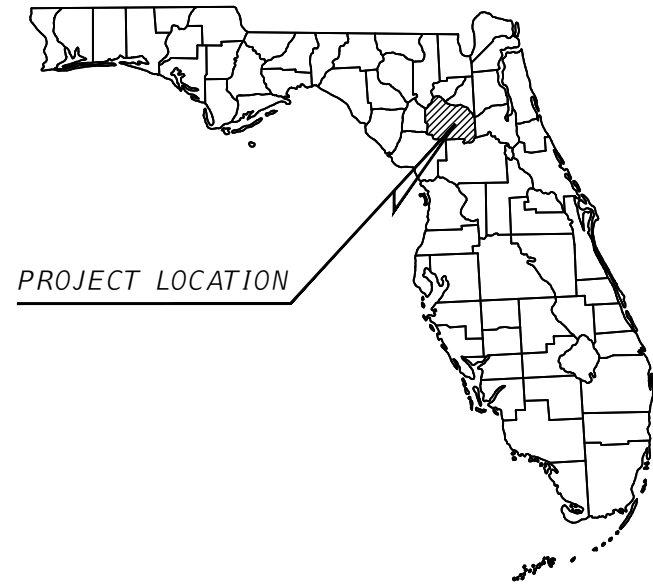
# City of Gainesville

## ROADWAY PLANS

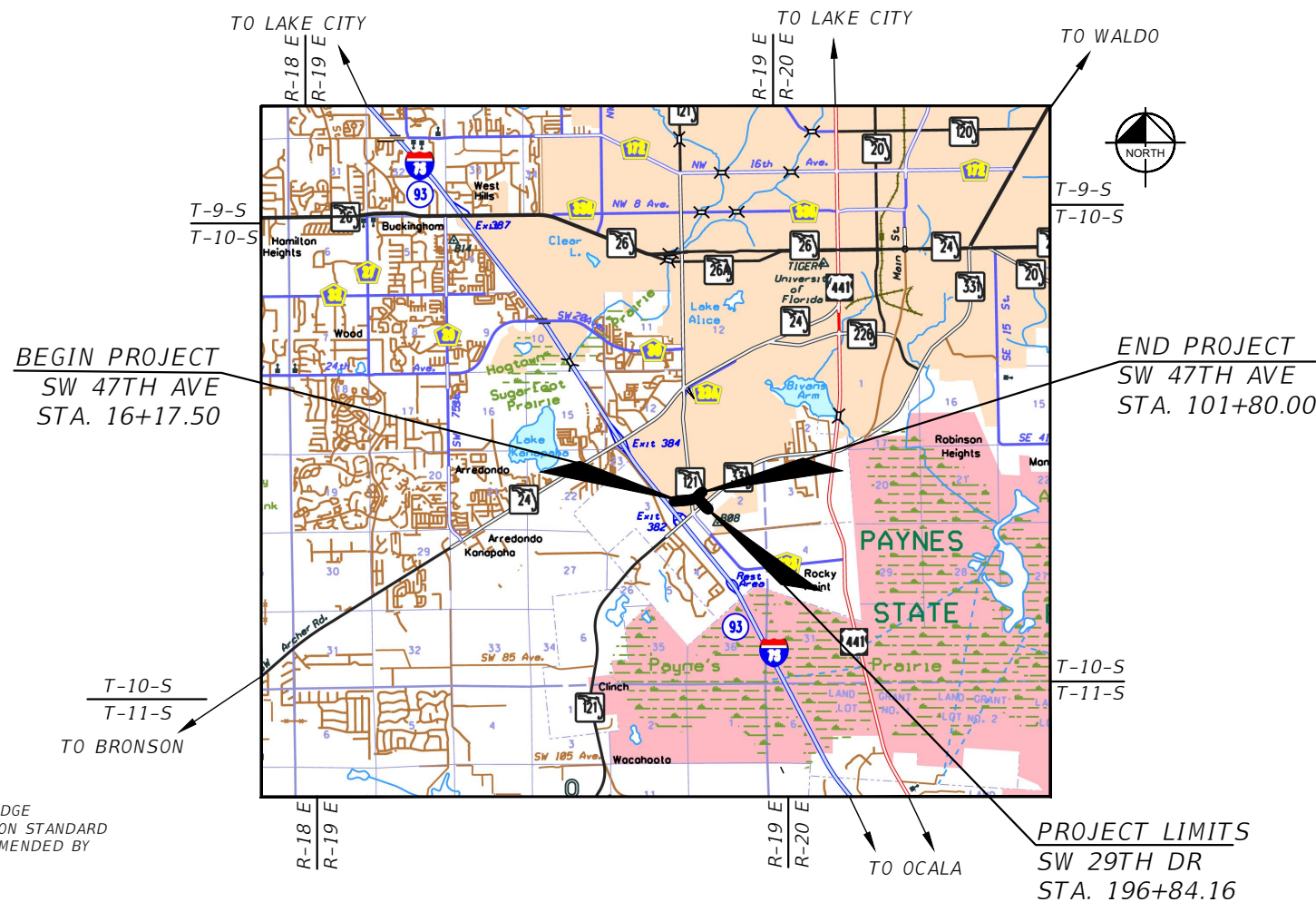
FOR

### SW 47TH AVENUE EXTENSION

FROM SW 47TH AVE TO SW 29TH DR



PROJECT LOCATION



BEGIN PROJECT  
SW 47TH AVE  
STA. 16+17.50

END PROJECT  
SW 47TH AVE  
STA. 101+80.00

PROJECT LIMITS  
SW 29TH DR  
STA. 196+84.16

PROJECT LENGTH IS BASED ON  $\square$  CONST.

LENGTH OF PROJECT		
STREET NAME	LINEAR FEET	MILES
SW 47TH AVE & SW 29TH DR	1720	0.33

SW 47TH AVE DESIGN SPEED 35 MPH  
SW 29TH DR DESIGN SPEED 25 MPH

CONSTRUCTION PLANS  
ENGINEER OF RECORD:

CHRISTOPHER D. TOWNE, P.E.

P.E. NO.: 66928

SHEET NO.

01

CALL 2 BUSINESS DAYS BEFORE YOU DIG  
IT'S THE LAW! DIAL 811  
Know what's below. Call before you dig.  
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

ROADWAY SHOP DRAWINGS TO BE SUBMITTED TO:

KIMLEY-HORN AND ASSOCIATES, INC.  
CHRIS TOWNE, P.E.  
800 SW 2ND AVENUE,  
SUITE 100,  
GAINESVILLE, FL 32601

PLANS PREPARED BY:

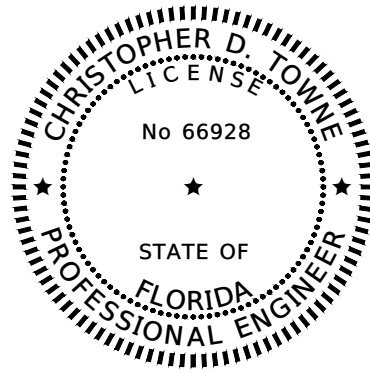
**Kimley»Horn**

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800 SW 2ND AVENUE,  
SUITE 100,  
GAINESVILLE, FL 32601  
(352) 374-3274  
REGISTRY 35106

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

JANUARY 2025  
90% SUBMITTAL  
NOT FOR CONSTRUCTION

CITY OF GAINESVILLE  
PROJECT MANAGER:  
CHASE KNIGHT, P.E.



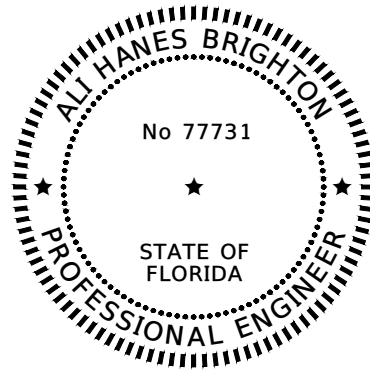
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800 SW 2ND AVENUE, SUITE 100  
GAINESVILLE, FLORIDA 32601  
REGISTRY 35106  
CHRISTOPHER D. TOWNE, P.E. 66928

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

SHEET NO.	SHEET TITLE
01	COVER SHEET
02	SIGNATURE SHEET
04	GENERAL NOTES
09 - 11	TYPICAL SECTIONS
12	PROJECT LAYOUT AND HORIZONTAL CONTROL
13 - 17	PLAN AND PROFILE
18	PROFILES
19	ROUNDBOUT SPLITTER ISLAND DETAIL AND GRADING PLAN
X-01 - X-17	CROSS SECTIONS
EC1 - EC3	EROSION CONTROL
SP1 - SP3	SIGNING AND PAVEMENT MARKINGS



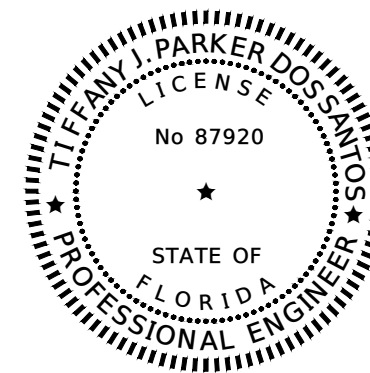
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REGISTRY 35106  
ALI HANES BRIGHTON, P.E. 77731

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SHEET NO.	SHEET TITLE
02	SIGNATURE SHEET
T1	SIGNAL NOTES AND QUANTITIES
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T6	GUIDESIGN WORKSHEET
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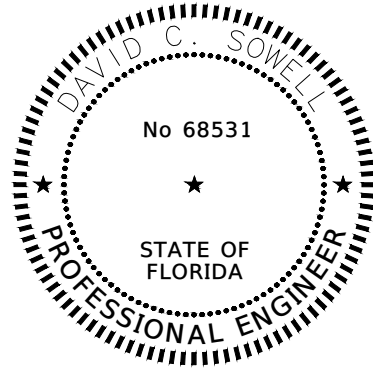
KIMLEY-HORN AND ASSOCIATES, INC.  
200 S ORANGE AVENUE, SUITE 600  
ORLANDO, FLORIDA 32801  
REGISTRY 35106  
TIFFANY J. PARKER DOS SANTOS, P.E. 87920

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SHEET NO.	SHEET TITLE
02	SIGNATURE SHEET
LT1	POLE DATA AND LEGEND
LT2 - LT5	LIGHTING PLAN

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REVISIONS		DATE		LICENSED PROFESSIONAL	CITY OF GAINESVILLE SW 47TH AVENUE EXTENSION			SIGNATURE SHEET	SHEET NO.
DATE	DESCRIPTION	JANUARY 2025		CHRISTOPHER D. TOWNE, P.E.	ROAD NO.	COUNTY	PROJECT NO.		02
-	NOT FOR CONSTRUCTION		<small>© 2025 KIMLEY-HORN AND ASSOCIATES, INC. 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601 PHONE: 352-374-3274 WWW.KIMLEY-HORN.COM REGISTRY 35106</small>	66928		ALACHUA	142107024		



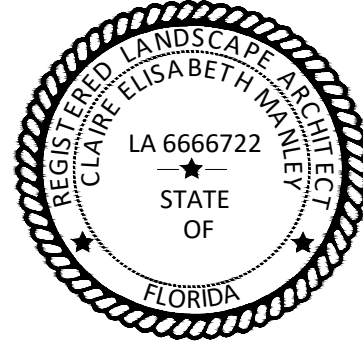
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REGISTRY 35106  
DAVID C. SOWELL, P.E. 68531

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

SHEET NO.	SHEET TITLE
03	SIGNATURE SHEET
05	DRAINAGE MAP
07	DRAINAGE RETENTION AREA
08	DRAINAGE RETENTION DETAILS
DR-01 - DR-04	DRAINAGE SECTIONS



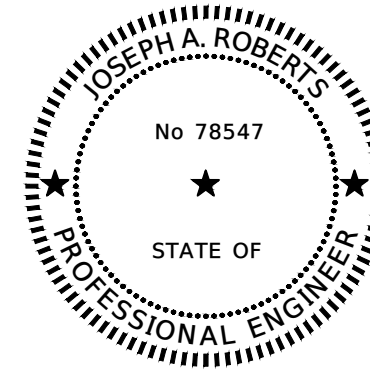
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800 SW 2ND AVENUE, SUITE 100  
GAINESVILLE, FLORIDA 32601  
REGISTRY 35106  
CLAIRE ELISABETH MANLEY, L.A. 6666722

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

SHEET NO.	SHEET TITLE
03	SIGNATURE SHEET
L-1	OVERALL LANDSCAPE PLAN AND SCHEDULE
L-2 - L-6	LANDSCAPE PLAN
L-7	LANDSCAPE NOTES
L-8 - L-9	LANDSCAPE DETAILS
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KIMLEY-HORN AND ASSOCIATES, INC.  
200 S ORANGE AVENUE, SUITE 600  
ORLANDO, FLORIDA 32801  
REGISTRY 35106  
JOSEPH A. ROBERTS, P.E. 78547

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SHEET NO.	SHEET TITLE
03	SIGNATURE SHEET
T5	MAST ARM ASSEMBLIES DESIGN TABLE

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**GENERAL CONSTRUCTION NOTES:**

1. SEE TOPOGRAPHIC SURVEY DATED 02/02/2024 PREPARED BY DEGROVE SURVEYORS INC. FOR SURVEY INFORMATION AND NOTES.
2. ALL STATIONS AND OFFSETS ARE REFERENCED TO BASELINE OF CONSTRUCTION.
3. STAGING AND MATERIAL STORAGE SHALL NOT BE CONDUCTED ON ABUTTING PRIVATE PROPERTY WITHOUT WRITTEN APPROVAL FROM THE OWNER.
4. THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION SIGNS VISIBLE DURING CONSTRUCTION OPERATIONS, IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC. PLACEMENT OF BUSINESS ENTRANCE SIGNS AND CHANNELIZING DEVICES ARE TO BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROADWAY AND BRIDGE CONSTRUCTION (INDEX 102 SERIES AS APPLICABLE).
5. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL RESIDENCES AND BUSINESSES DURING THE ENTIRE CONSTRUCTION PERIOD.
6. ALL CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND CONTRACT DOCUMENTS.
7. THESE PLANS REFLECT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. IF A DISCREPANCY SHOULD ARISE, OR IF ACTUAL CONDITIONS PREVENT THE APPLICATION OF THESE PLANS AND SPECIFICATIONS IN THE CONSTRUCTION OF THE WORK, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING FOR PROPOSED RESOLUTION OR CLARIFICATION. NO CHANGES TO THE WORK AS SHOWN ON THESE PLANS SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE PROJECT ENGINEER.
8. IF A SINKHOLE SHOULD FORM ON THE SITE, THE PROCEDURES OUTLINED BY THE GOVERNING WATER MANAGEMENT DISTRICT SHALL BE FOLLOWED. BOTH THE PROJECT ENGINEER AND THE WATER MANAGEMENT DISTRICT SHALL BE NOTIFIED.
9. JOB SAFETY SHALL BE IMPLEMENTED AT ALL TIMES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH OSHA STANDARDS AND TO ABIDE BY THEM AS WELL AS ANY OTHER LOCAL, STATE, AND FEDERAL REGULATIONS.
10. DAMAGE TO UTILITIES, STRUCTURES OR PROPERTY ON OR ADJACENT TO THE PROJECT SITE CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
11. THE CONTRACTOR SHALL NOTIFY THE CITY OF GAINESVILLE A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
12. THE CONTRACTOR AND SUBCONTRACTORS ARE HEREBY REQUIRED TO PROMPTLY NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES OR CONFLICTS FOUND IN THE PLANS OR SPECIFICATIONS, SO THEY ARE CLARIFIED BY THE ENGINEER.
13. THE PROJECT ENGINEER OR REPRESENTATIVE SHALL HAVE ACCESS TO THE WORK SITE AT ALL TIMES.
14. ALL ASTM DESIGNATIONS SHALL BE AS AMENDED TO DATE UNLESS NOTED OTHERWISE.
15. ADDITIONAL TEST BORINGS AND EXPLORATORY INVESTIGATIONS MAY BE MADE BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
16. ALL EXISTING STORMWATER DRAINAGE PATTERNS AND CHANNELS OUTSIDE THE CONSTRUCTION AREAS SHOWN ON THESE PLANS ARE TO BE MAINTAINED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF THE WORK APPEARS TO INTERRUPT AN EXISTING STORMWATER DRAINAGE PATTERN. THE CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND DITCHES DURING ALL PHASES OF CONSTRUCTION SUCH THAT IMPACT TO CONSTRUCTION AND/OR SURROUNDING FACILITIES IS MINIMIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EROSION, SEDIMENT TRANSPORT, DISTURBED FOUNDATIONS, IMPACT TO STRUCTURES AND ANY OTHER DAMAGE CAUSED DURING CONSTRUCTION.
17. UNSUITABLE MATERIAL FROM WITHIN THE PROJECT SHALL BE PROPERLY DISPOSED OF OFF SITE BY THE CONTRACTOR. SUITABLE MATERIAL FROM WITHIN THE PROJECT SHALL BE USED FOR EMBANKMENT AS NEEDED TO COMPLETE THE PROJECT. REFER TO FDOT STANDARD INDEX 120-001 AND THE GEOTECHNICAL REPORT TITLED "SUMMARY REPORT OF A GEOTECHNICAL SITE EXPLORATION SW 47TH AVENUE & SW 29TH DRIVE ROADWAY EXTENSION BASIN" PREPARED BY GSE ENGINEERING & CONSULTING INC.
18. BURNING WITHIN THE LIMITS OF THE PROPOSED PROJECT SHALL NOT BE ALLOWED UNLESS OTHERWISE SPECIFIED BY THE PROJECT ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE APPROPRIATE AGENCY AND OBTAINING A BURNING PERMIT.
19. ANY SURVEY MARKER, INCLUDING BUT NOT LIMITED TO SECTION MARKERS, BENCH MARKS, LOT CORNERS, ETC. WHICH ARE DISTURBED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE PRIOR TO FINAL PAYMENT. RESETTING OF MONUMENTS AND MARKERS SHALL BE PERFORMED BY A PROFESSIONAL LAND SURVEYOR LICENSED TO PRACTICE IN THE STATE OF FLORIDA.
20. ALL DETAILS, SECTIONS AND NOTES SHOWN ON DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS NOTED OR SHOWN OTHERWISE.
21. THE REFERENCE STATION AND OFFSET FOR ALL MITERED END SECTIONS REFERS TO THE LOCATION POINT DEFINED IN THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROADWAY AND BRIDGE CONSTRUCTION INDEX 430-021.
22. ALL EXISTING CULVERTS ARE TO REMAIN UNLESS SPECIFIED OTHERWISE.
23. CONTINUOUS RUNS OF PIPE SHALL BE THE SAME MATERIAL UNLESS APPROVED BY THE PROJECT MANAGER. MITERED END SECTIONS FOR POLYPROPYLENE PIPE SHALL BE CONSTRUCTED PER CITY OF GAINESVILLE DETAILS.
24. LOCATIONS OF SIDEWALK RECONSTRUCTION ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LIMITS OF RECONSTRUCTION.
25. CONTRACTOR SHALL VERIFY EXISTING GRADES AT TIE-IN POINTS AND PROVIDE DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS TO THE ENGINEER PRIOR TO BEGINNING WORK IN THIS AREA.
26. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES EXIST ALONG SIDEWALKS, CROSSWALKS, AND ACCESSIBLE ROUTES. IN NO CASE SHALL AN ACCESSIBLE RAMP SLOPE EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK OR CROSSWALK SLOPE EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPE EXCEED 5.0 PERCENT UNLESS NOTED IN THE PLANS.

27. CONTRACTOR SHALL TAKE FIELD SLOPE MEASUREMENT ON FINISHED SUBGRADE AND FORM BOARDS PRIOR TO PLACING PAVEMENT TO VERIFY THAT ADA SLOPE REQUIREMENTS ARE PROVIDED. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR ADA SLOPE COMPLIANCE ISSUES.
28. WHERE DRAINAGE STRUCTURE TOPS ARE DIRECTED TO BE REPLACED, CONTRACTOR HAS OPTION TO REPLACE COMPLETE STRUCTURE AT CONTRACTORS EXPENSE.
29. ALL ITEMS INSIDE OF LIMITS OF CONSTRUCTION BOUNDARY TO BE CLEARED AND GRUBBED UNLESS NOTED OTHERWISE.

**UTILITY NOTES:**

1. UTILITIES SHOWN HEREON ARE BASED ON A SURVEY DATED 02/02/2024 BY DEGROVE SURVEYORS INC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES SHOWN OR NOT SHOWN THROUGH DIRECT CONTACT WITH THE APPROPRIATE UTILITY COMPANY PRIOR TO OR IN CONJUNCTION WITH THE PROJECT.
2. ALL ABOVE GROUND UTILITY STRUCTURES SHALL BE RELOCATED AS REQUIRED PER CLEAR ZONE REQUIREMENTS.
3. ALL UNDERGROUND UTILITIES CONFLICTING WITH CONSTRUCTION SHALL BE RELOCATED, UNLESS OTHERWISE APPROVED BY THE PROJECT ENGINEER.
4. CONTRACTOR SHALL HAND EXCAVATE WHEN CONSTRUCTION ACTIVITIES ARE WITHIN 18 INCHES OF EXISTING UTILITIES.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES SHOWN OR NOT SHOWN ON THE PLANS AND SHALL MAINTAIN DIRECT CONTACT WITH THE APPROPRIATE UTILITY COMPANIES THROUGHOUT CONSTRUCTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO UTILITIES, STRUCTURES AND PROPERTY ON AND ADJACENT TO THE SITE CAUSED BY CONSTRUCTION ACTIVITIES.
7. CONTRACTOR SHALL ADJUST ALL UTILITY LIDS AND COVERS TO FINISHED GRADE AS REQUIRED.
8. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE STATE ONE CALL OF FLORIDA (1-800-432-4770) AND UTILITY OWNERS LISTED ON THE COVER SHEET AT LEAST TWO BUSINESS DAYS (OR 10 DAYS IF DIGGING UNDER WATER) IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE.

**EROSION CONTROL NOTES:**

1. ALL EROSION AND SEDIMENT CONTROL DEVICES NECESSARY FOR CONSTRUCTION SHALL CONFORM TO THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS FOR ROADWAY AND BRIDGE CONSTRUCTION, ST. JOHNS RIVER WATER MANAGEMENT DISTRICT (SJRWMD) RULES, AND FLORIDA BEST MANAGEMENT PRACTICES.
2. THE CONTRACTOR SHALL PREVENT THE DISCHARGE OF SEDIMENT INTO DRAINAGE DITCHES OR OFFSITE DUE TO CONSTRUCTION OPERATIONS. APPROVED EROSION CONTROL DEVICES SHALL BE INSTALLED TO PREVENT DISCHARGE OF SEDIMENT INTO A DRY OR WET WATERCOURSE. EROSION CONTROL SHALL CONSIST OF SILT FENCE, OR OTHER EROSION CONTROL METHODS APPROVED BY THE PROJECT ENGINEER. ALL NEW AND EXISTING DRAIN PIPES AND STRUCTURES SHALL BE DESILTED PRIOR TO FINAL PAYMENT.
3. CONTRACTOR SHALL CLEAR AND GRUB CONSTRUCTION AREAS BEFORE FILL IS PLACED. ALL AREAS TO RECEIVE FILL SHALL BE STRIPPED OF ALL VEGETATION AND TOPSOIL AND PROOF ROLLED PRIOR TO PLACING CLEAN FILL.
4. ALL SLOPES STEEPER THAN 3:1 SHALL HAVE PINNED OR PEGGED ARGENTINE BAHIA SOD. PROVIDE EROSION CONTROL BLANKET FOR ALL SLOPES 2:1 HORIZONTAL TO VERTICAL OR STEEPER.
5. ALL AREAS INSIDE AND OUTSIDE THE PROJECT LIMITS, WHICH ARE DISTURBED AS A RESULT OF THE PROJECT CONSTRUCTION SHALL BE RESTORED TO ORIGINAL OR DESIGN GRADE AS APPLICABLE, AND SODDED WITH ARGENTINE BAHIA AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE APPROVED BY THE PROJECT ENGINEER. ALL DISTURBED AREAS WITHIN THE CITY RIGHT OF WAY SHALL BE REGRADED AND SODDED WITH ARGENTINE BAHIA SOD.
6. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
7. ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.
8. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES DAILY. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
9. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH RAINFALL. DEPOSITS SHALL BE REMOVED WHEN THE LEVEL OF DEPOSITIONS REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
10. SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIER IS NO LONGER REQUIRED, SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SODDED.
11. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF EXPECTED USABLE LIFE AND THE BARRIERS ARE STILL NECESSARY, THE FABRIC SHALL BE REPLACED IMMEDIATELY.
12. THESE NOTES INDICATE THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.
13. THE CONTRACTOR SHALL SUBMIT A DETAILED STORMWATER POLLUTION PREVENTION PLAN TO THE CITY FOR APPROVAL, PRIOR TO CONSTRUCTION ACTIVITIES.
14. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE NOTICE OF INTENT (NOI) TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.

**TEMPORARY TRAFFIC CONTROL NOTES:**

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE OF THE TRAVELWAY AT ALL TIMES.
2. PROJECT AREAS THAT ARE NOT ACTIVE CONSTRUCTION AREAS ARE TO BE KEPT FREE OF CONSTRUCTION DEBRIS AND UNNECESSARY OR CONFLICTING TRAFFIC CONTROL DEVICES.
3. ACCESS TO ALL DRIVEWAYS AND SUBDIVISION STREETS SHALL BE PROVIDED AT ALL TIMES, EXCEPT AS OTHERWISE INDICATED IN THESE PLANS.
4. TRAFFIC CONTROL FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLAN INDEX.
5. THE EXISTING REGULATORY SPEED LIMITS SHALL REMAIN UNCHANGED DURING CONSTRUCTION UNLESS NOTED IN THE PLANS OR APPROVED BY THE COUNTY ENGINEER.
6. IN THE EVENT OF A HURRICANE OR OTHER EVACUATION NEED, THE CONTRACTOR, UPON NOTIFICATION BY THE OWNER, SHALL COORDINATE THE SECURING OF ALL LOOSE MATERIAL, OPEN CLOSED LANES, BACKFILL EXCAVATION, REMOVE OBSTRUCTIONS TO DRAINAGE AND WATER FLOW, AND TAKE OTHER MEASURES AS DIRECTED BY THE ENGINEER NECESSARY TO PROTECT THE PUBLIC.
7. THE CONTRACTOR SHALL REMOVE ANY EXISTING OR TEMPORARY PAVEMENT MARKINGS THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS. WHEN THE CONFLICT NO LONGER EXISTS, THE CONTRACTOR SHALL RESTORE THE PAVEMENT MARKINGS TO THEIR ORIGINAL OR NEW POSITIONS. REMOVAL OF EXISTING AND/OR TEMPORARY PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY HYDROBLASTING.
8. CONTRACTOR SHALL ACCOUNT FOR OTHER AREAS OF CONSTRUCTION THAT MAY BE NEARBY. CONTRACTOR TO COORDINATE ALL ROADWAY CONSTRUCTION ZONE SIGNAGE FOR CONSISTENCY.

**ROADWAY ADA NOTES:**

1. THE PROJECT SHALL BE CONSTRUCTED TO MEET CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN.
2. LOCATIONS OF SIDEWALK RECONSTRUCTION ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LIMITS OF RECONSTRUCTION.
3. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES EXIST ALONG SIDEWALKS, CROSSWALKS, AND ACCESSIBLE ROUTES. IN NO CASE SHALL AN ACCESSIBLE RAMP SLOPE EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK OR CROSSWALK SLOPE EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPE EXCEED 5.0 PERCENT UNLESS NOTED IN THE PLANS.
4. ALL PROPOSED CURB RAMPS AND LANDINGS TO BE 6" THICK CONCRETE.

**PAY ITEM NOTES:**

1. CONCRETE REMOVAL TO BE INCIDENTAL WITH CLEARING AND GRUBBING PAY ITEM.
2. PAY ITEMS AND QUANTITIES REPRESENT COMBINED ITEMS INSIDE AND OUTSIDE FDOT RIGHT-OF-WAY.


**CITY OF GAINESVILLE GENERAL NOTES:**

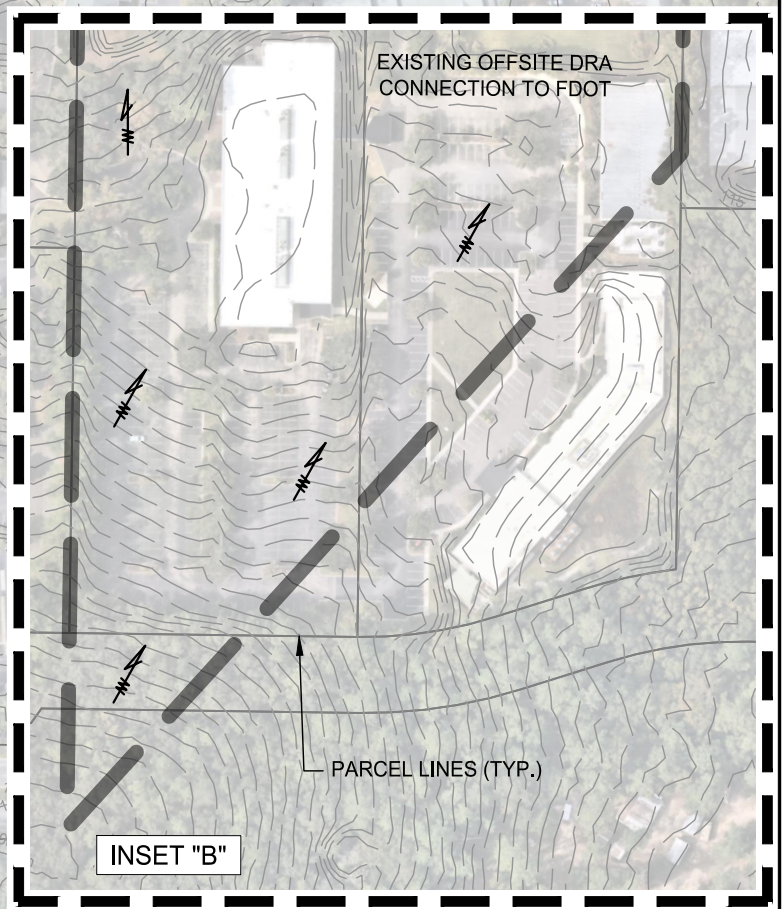
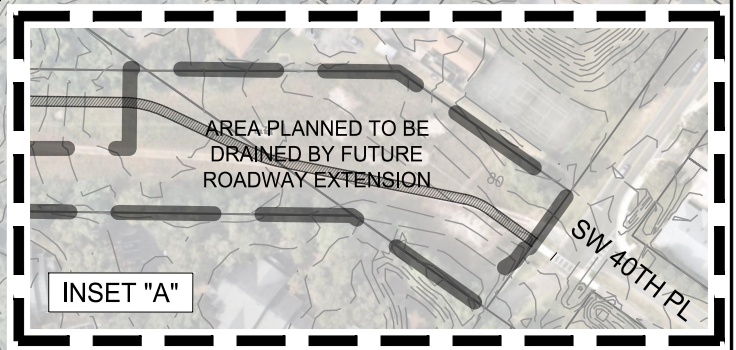
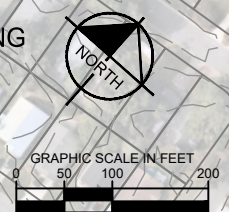
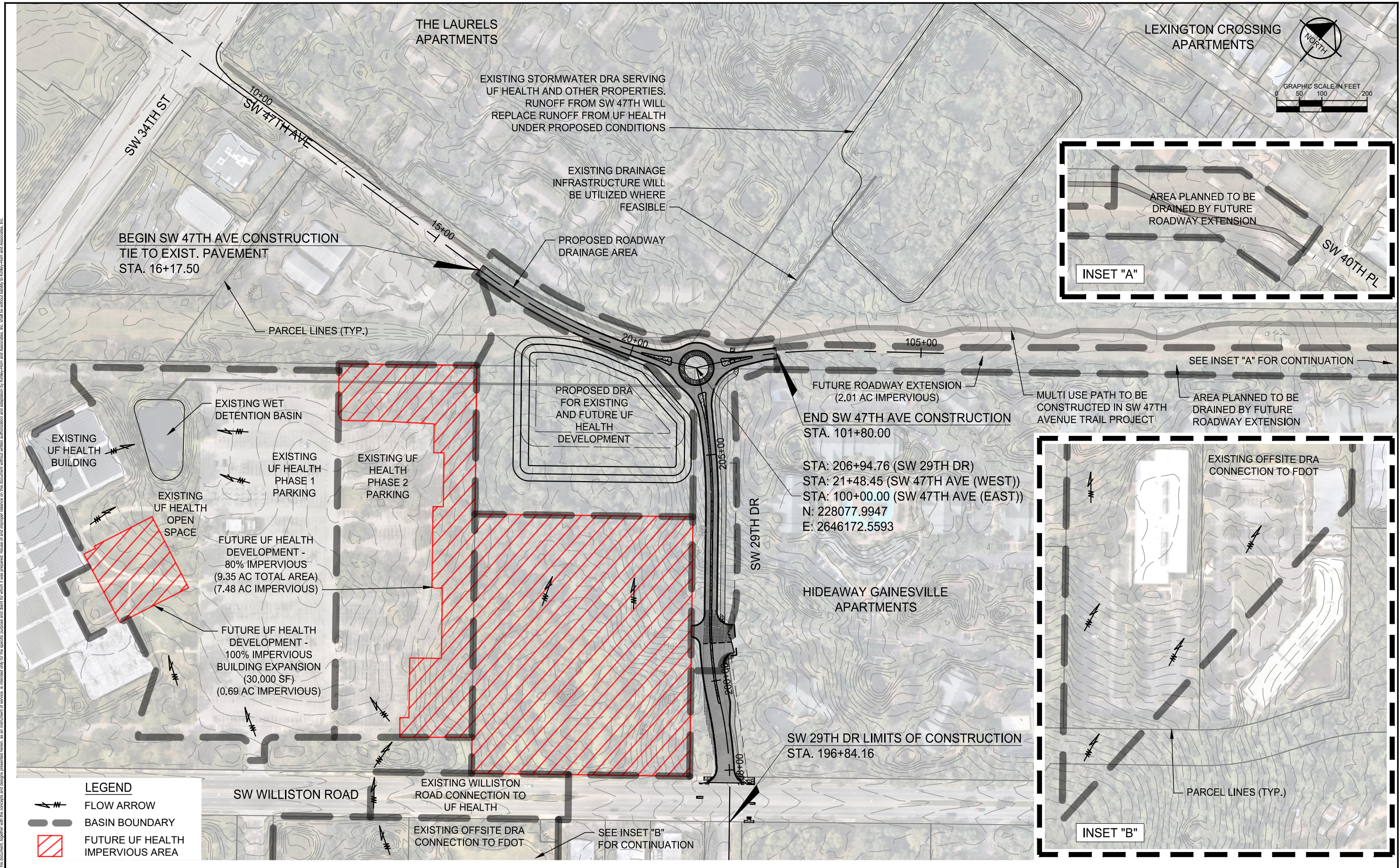
1. ALL WORK OUTSIDE OF FDOT RIGHT-OF-WAY, INCLUDING BUT NOT LIMITED TO EARTHWORK, ASPHALT, CONCRETE, SIGNS AND POSTS, DETECTABLE WARNING SURFACES, CONCRETE THICKNESS AND REINFORCEMENT, ECT. SHALL MEET CITY OF GAINESVILLE STANDARDS.
2. CONTRACTOR TO PROVIDE AS-BUILT SURVEY MEETING THE CITY OF GAINESVILLE STANDARDS.

**GRU ELECTRIC NOTES:**

1. DURING CONSTRUCTION, A LEVEL 30' WIDE GRADED ACCESS ROAD SHALL BE MAINTAINED AT ALL TIMES ALONG THE IMPACTED LENGTH OF THE 150' GRU POWER LINE R/W FOR GRU BUCKET TRUCK ACCESS. CONSTRUCTION OF GRADED ROAD SHALL BE SUITABLE FOR SUPPORTING HEAVY TRUCKS AND GRADED FOR POSITIVE DRAINAGE.
2. PRIOR TO INSTALLATION OF CONDUIT, CONTRACTOR SHALL CONTACT GRU ENGINEERING SUPERVISOR ROD JORDAN AT (352) 663-5441.

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REVISIONS		DATE	 <p>© 2025 KIMLEY-HORN AND ASSOCIATES, INC. 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601 PHONE: 352-374-3274 WWW.KIMLEY-HORN.COM REGISTRY 35106</p>	LICENSED PROFESSIONAL	CITY OF GAINESVILLE SW 47TH AVENUE EXTENSION			GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	JANUARY 2025		CHRISTOPHER D. TOWNE, P.E.	ROAD NO.	COUNTY	PROJECT NO.		04
-	-	NOT FOR CONSTRUCTION			66928	ALACHUA	142107024		
					DATE: _____				



**LEGEND**

- FLOW ARROW
- BASIN BOUNDARY
- FUTURE UF HEALTH IMPERVIOUS AREA

REVISIONS	
DATE	DESCRIPTION
-	NOT FOR CONSTRUCTION

DATE	DESCRIPTION
JANUARY 2025	DESIGNED BY KHA
	DRAWN BY KHA
	CHECKED BY KHA

**Kimley»Horn**

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 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601  
 PHONE: 352-374-3274  
 WWW.KIMLEY-HORN.COM REGISTRY 35106

LICENSED PROFESSIONAL
DAVID C. SOWELL, P.E.
68531
DATE:

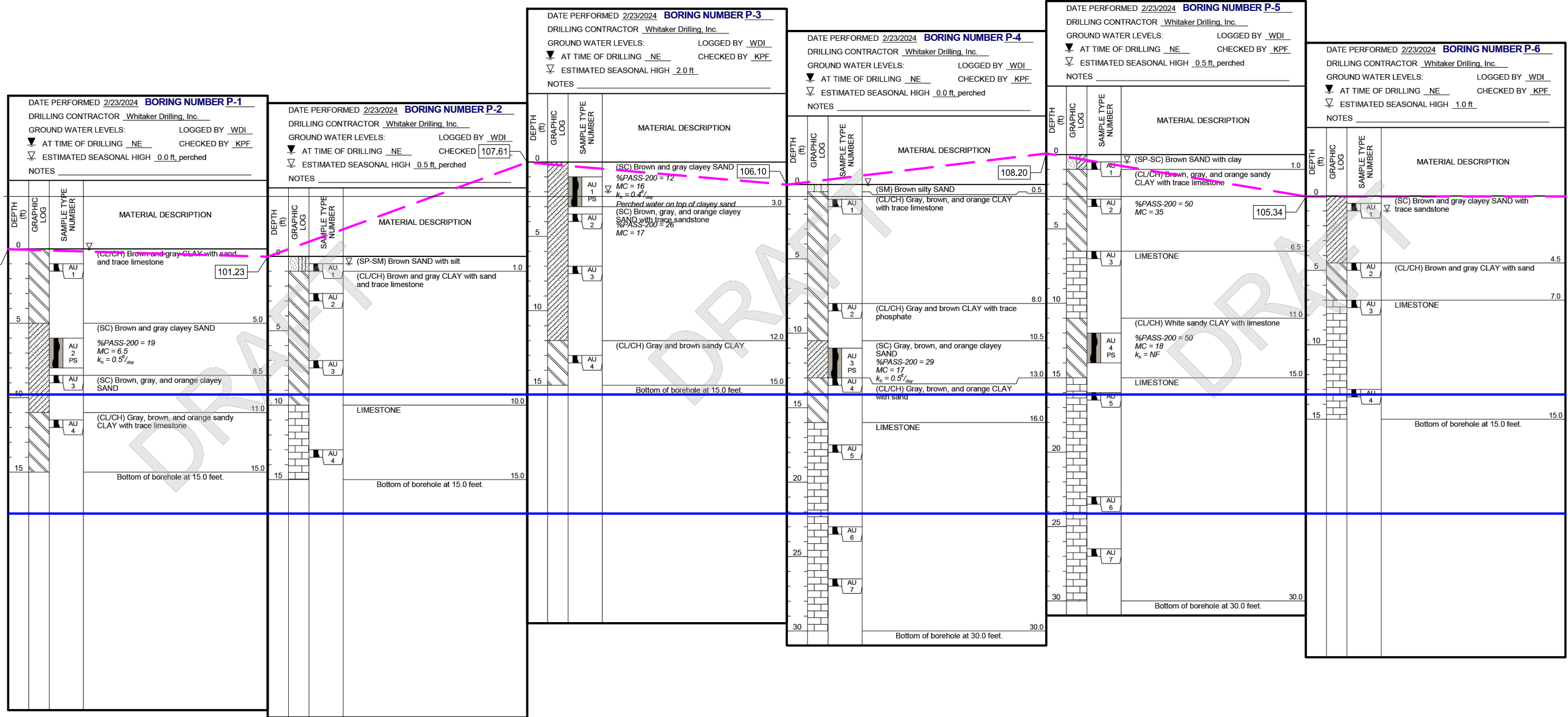
CITY OF GAINESVILLE SW 47TH AVENUE EXTENSION		
ROAD NO.	COUNTY	PROJECT NO.
	ALACHUA	142107024

<b>DRAINAGE MAP</b>	
05	

SHEET NO.
05

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SHEET FOR INFORMATION PURPOSES ONLY



SHGWT PER GEOTECHNICAL REPORT

BASE OF AQUIFER PER GEOTECHNICAL REPORT

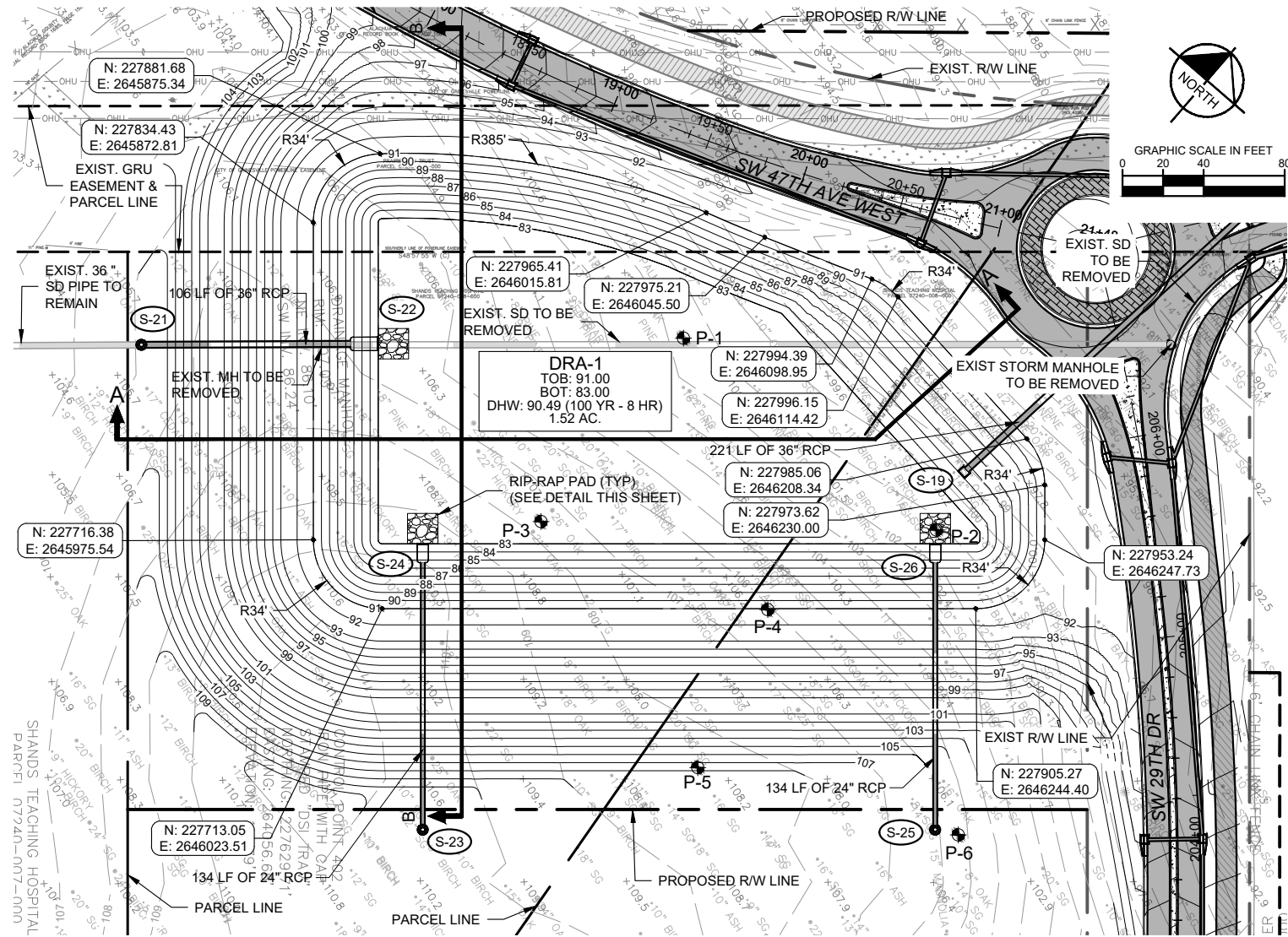
EXISTING GRADE

POND TOP EL.: 91.00

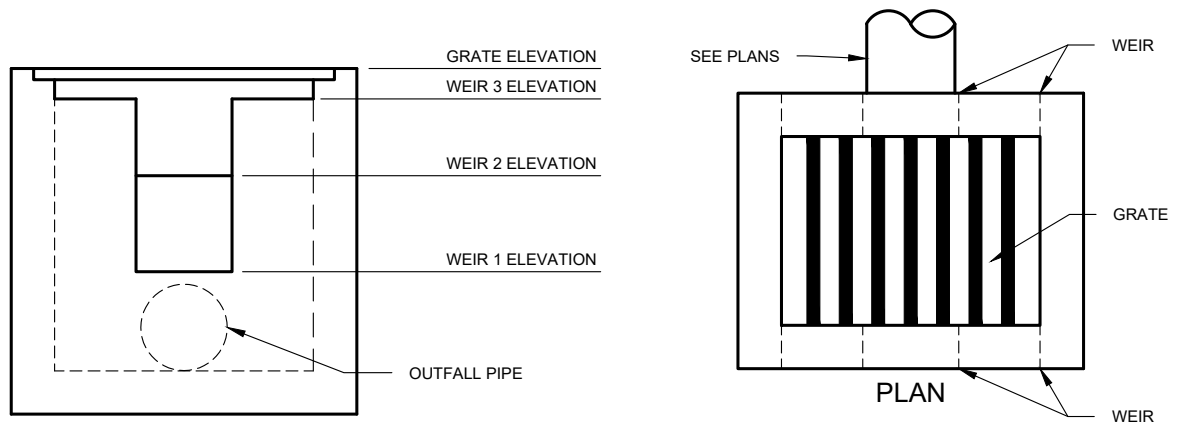
POND BOT EL.: 83.00

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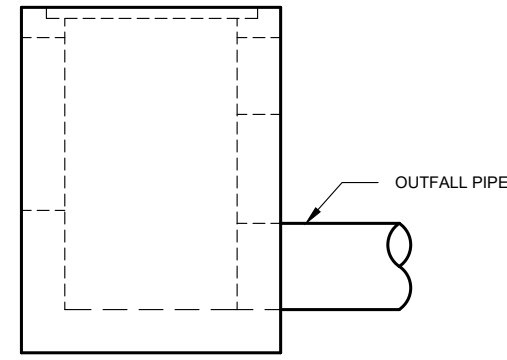
<b>REVISIONS</b> DATE DESCRIPTION		DATE JANUARY 2025 DESIGNED BY KHA DRAWN BY KHA CHECKED BY KHA		 © 2025 KIMLEY-HORN AND ASSOCIATES, INC. 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601 PHONE: 352-374-3274 WWW.KIMLEY-HORN.COM REGISTRY 35106		LICENSED PROFESSIONAL DAVID C. SOWELL, P.E. 68531 DATE:			CITY OF GAINESVILLE SW 47TH AVENUE EXTENSION ROAD NO. COUNTY PROJECT NO. ALACHUA 142107024			DRAINAGE RETENTION BORING SECTIONS		SHEET NO. 06
NOT FOR CONSTRUCTION														



S-19 STA: 21+09.04, 121.21RT CONTROL STRUCTURE SEE DETAIL THIS SHEET	S-21 STA: 17+55.97, 210.20RT FDOT TYPE P8 MH RIM: 106.10 INV IN: 86.46 INV OUT: 86.46 INV OUT: 87.02	S-22 STA: 18+36.72, 160.41RT MES FL INV: 83.00 (SW)	S-23 STA: 19+39.08, 367.74RT FDOT TYPE P8 MH RIM: 110.41 INV OUT: 89.71	S-24 STA: 18+99.50, 243.16RT MES FL INV: 83.00 (SE)	S-25 STA: 21+30.63, 296.79RT FDOT TYPE P8 MH RIM: 106.15 INV OUT: 89.71	S-26 STA: 21+04.96, 165.69RT MES FL INV: 83.00 (SE)
---	--	--	---	--	---	--



FRONT ELEVATION



SIDE ELEVATION

STRUCTURE #	STRUCTURE TYPE	GRATE ELEV.
S-19	TYPE D DBI	90.50

PIPE SIZE	PIPE INV.	SIDE
36"	83.00	NORTH (N)

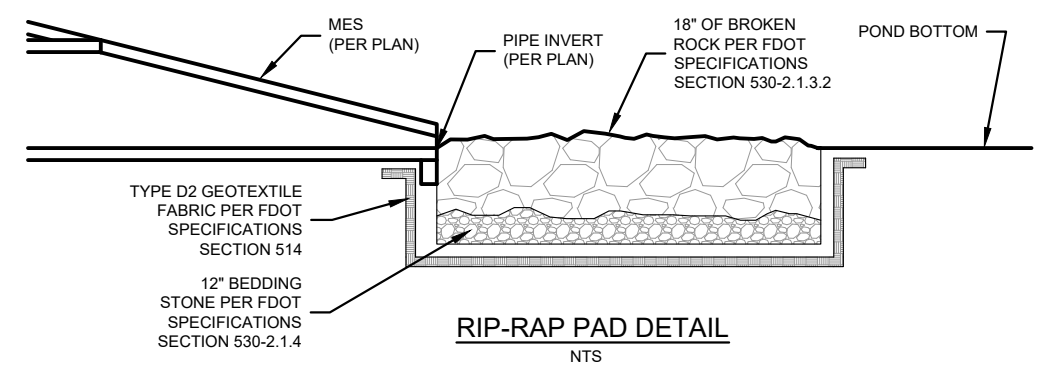
  

WEIR #	ELEVATION	WIDTH	SIDE
1	86.17	2' 4 3/4"	SOUTH (S)
2	88.67	2' 4 3/4"	NORTH (N)
3	90.25	4' (2)	N & S

SKIMMER #	BOT ELEVATION	TOP ELEVATION	SIDE
1	85.67	90.50	SOUTH (S)
2	88.17	90.50	NORTH (N)

CONTROL STRUCTURE  
NTS



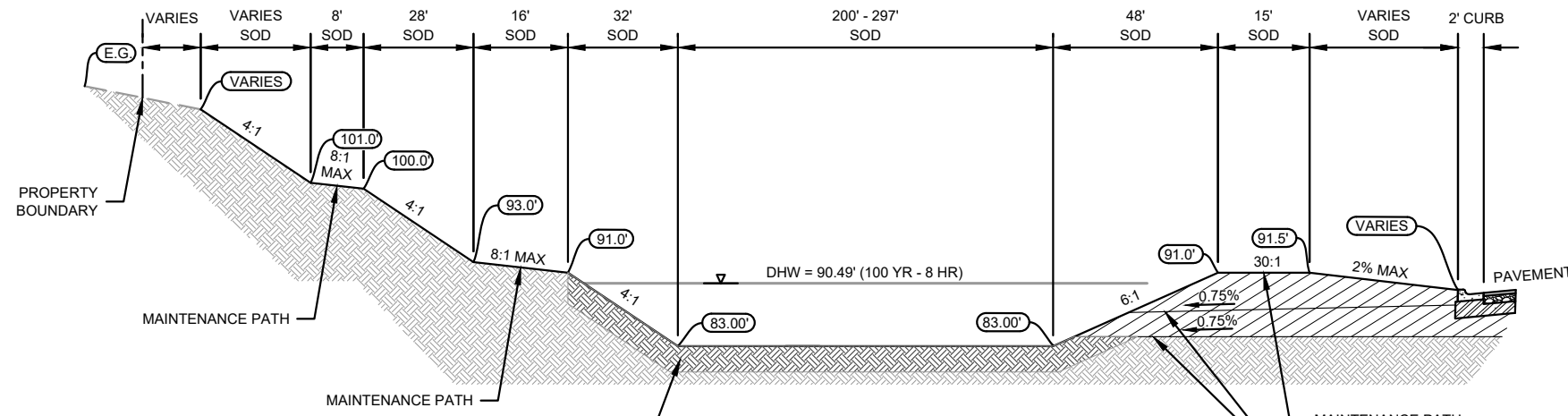
RIP-RAP PAD DETAIL  
NTS

STAGE (FT)	AREA (AC)	AREA (SF)	STOR. VOL. (CF)	STOR. VOL. (AC-FT)
83.00	0.7993	34,816	0	0.00
84.00	0.8817	38,407	36,611	0.84
85.00	0.9664	42,096	76,863	1.76
86.00	1.0533	45,883	120,852	2.77
87.00	1.1425	49,768	168,677	3.87
88.00	1.2339	53,751	220,437	5.06
89.00	1.3276	57,832	276,228	6.34
90.00	1.4236	62,011	336,149	7.72
91.00	1.5218	66,288	400,299	9.19

NOTE:  
SEE SHEET 08 FOR ADDITIONAL POND DETAILS

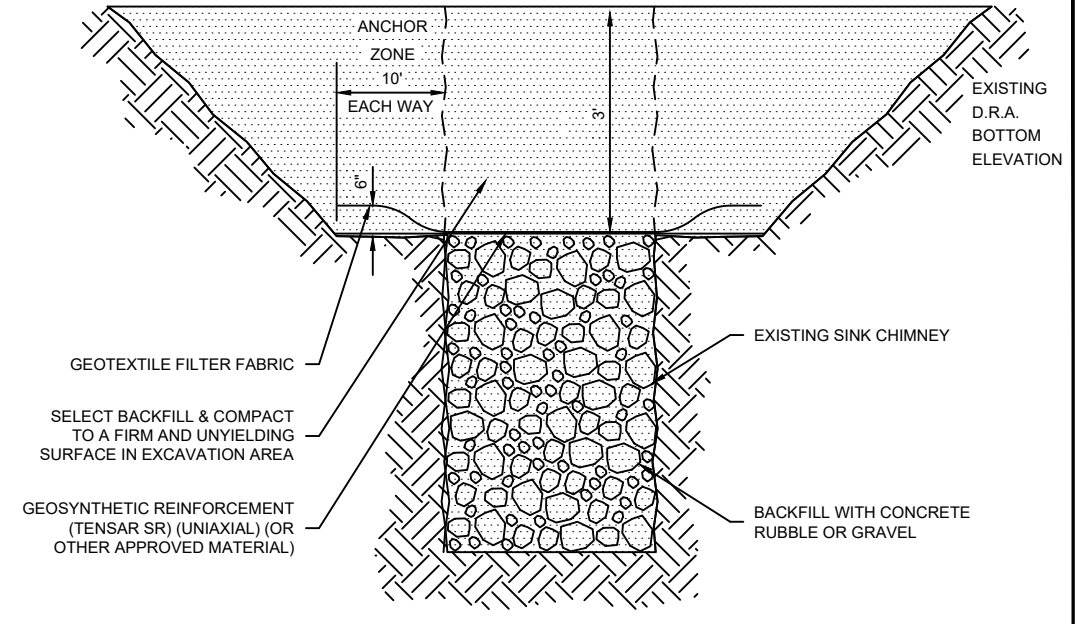
<b>REVISIONS</b> DATE DESCRIPTION		DATE JANUARY 2025		 © 2025 KIMLEY-HORN AND ASSOCIATES, INC. 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601 PHONE: 352-374-3274 WWW.KIMLEY-HORN.COM REGISTRY 35106	LICENSED PROFESSIONAL DAVID C. SOWELL, P.E. 68531 DATE:	<b>CITY OF GAINESVILLE</b> SW 47TH AVENUE EXTENSION			<b>DRAINAGE RETENTION AREA</b>	SHEET NO. <b>07</b>
ROAD NO. COUNTY PROJECT NO.		ALACHUA 142107024								
NOT FOR CONSTRUCTION		HICKERNELL, ROBERT 1/16/2025 2:09:55 PM								

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**SECTION A-A**  
**DRA-1 (DRY RETENTION)**  
 TOB: 91.00  
 BOT: 83.00  
 SHGWT: 58.00  
 VERTICAL INFILTRATION RATE: 7 FT/DAY  
 HORIZONTAL HYDRAULIC CONDUCTIVITY: 0.5 FT/DAY  
 NTS

POND BOTTOM TO BE UNDERCUT 3' MIN. AND FILLED IN ACCORDANCE TO SECTION 4-8 (PG 4-4 & PG 4-5) OF THE SUMMARY REPORT OF A ROADWAY SOIL SURVEY AND GEOTECHNICAL SITE EXPLORATION FOR SW 47TH AVENUE AND SW 29TH DRIVE ROADWAY EXPANSION AND BASIN, BY GSE ENGINEERING & CONSULTING DATED OCTOBER 2024



**TYPICAL SINK CHIMNEY REPAIR DETAIL**

N.T.S.

**NOTES:**

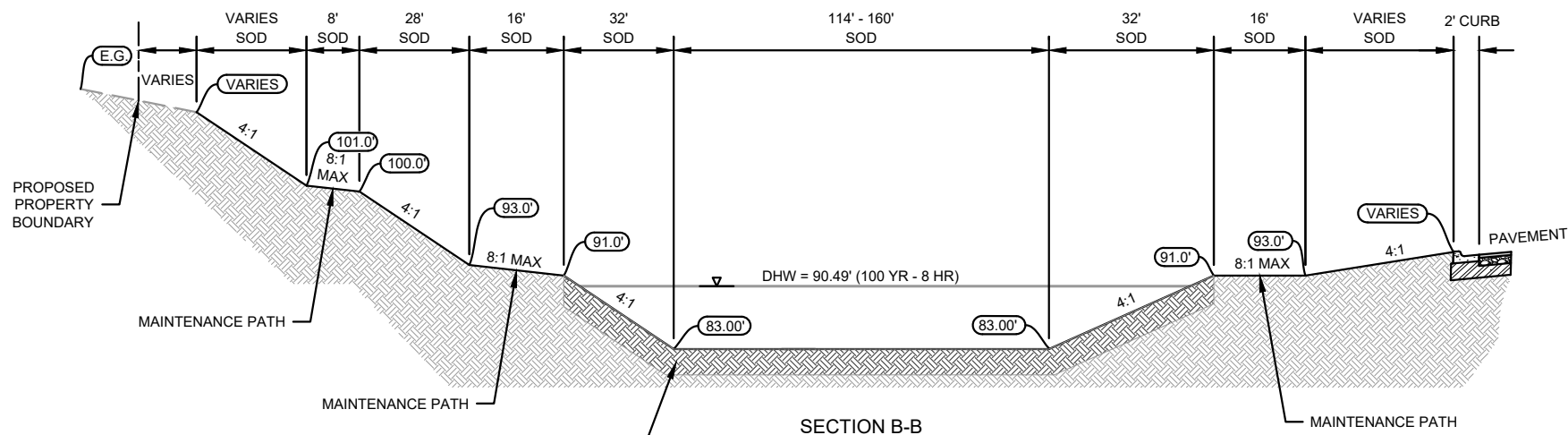
- IF LIMESTONE IS ENCOUNTERED OR A SINKHOLE OR SOLUTION PIPE FORMS DURING CONSTRUCTION, CONSTRUCTION OF THE BASIN MUST BE HALTED AND THE PROJECT GEOTECHNICAL ENGINEER MUST BE NOTIFIED IMMEDIATELY.
- THE SINKHOLE OR SOLUTION PIPE MUST BE REPAIRED WITHIN 10 DAYS OF THE DISCOVERY USING A DISTRICT APPROVED METHOD.
- THE STORMWATER SYSTEM MUST BE INSPECTED MONTHLY FOR THE OCCURRENCE OF SINKHOLES OR SOLUTION PIPES.

**STORMWATER BASIN NOTES:**

- THE INSITU MATERIAL FOR ALL DRY RETENTION PONDS WILL BE TESTED BY A GEOTECHNICAL ENGINEER USING APPROPRIATE METHODOLOGIES SUCH AS ONSITE TESTING WITH A DOUBLE-RING INFILTRMETER OR TRENCH TEST, OR COLLECTION OF AN UNDISTURBED SAMPLE FOR TESTING SUCH AS A SHELBY TUBE TO DEMONSTRATE THAT IT IS NOT LESS THAN THE DESIGN INFILTRATION. TEST RESULTS SHALL BE SUBMITTED TO THE CITY FOR APPROVAL. THE COST SHALL BE BORNE BY THE CONTRACTOR.
- FINAL EXCAVATION OF DRY RETENTION PONDS TO WITHIN ONE FOOT MUST BE DEFERRED UNTIL ALL CONTRIBUTING AREAS OF THE DRAINAGE BASIN ARE STABILIZED. LIGHT EQUIPMENT SHOULD BE USED TO REMOVE ACCUMULATED SEDIMENTS AND ACHIEVE FINAL GRADE WITHOUT COMPACTING THE BASIN FLOOR.
- CITY STAFF SHALL INSPECT ALL BASINS BEFORE SODDING AND/OR SEEDING OR BEFORE COVERED SUCH AS IN THE CASE OF UNDERGROUND SYSTEMS.

**NOTE:**

- SEE SHEET 07 FOR ADDITIONAL POND DETAILS

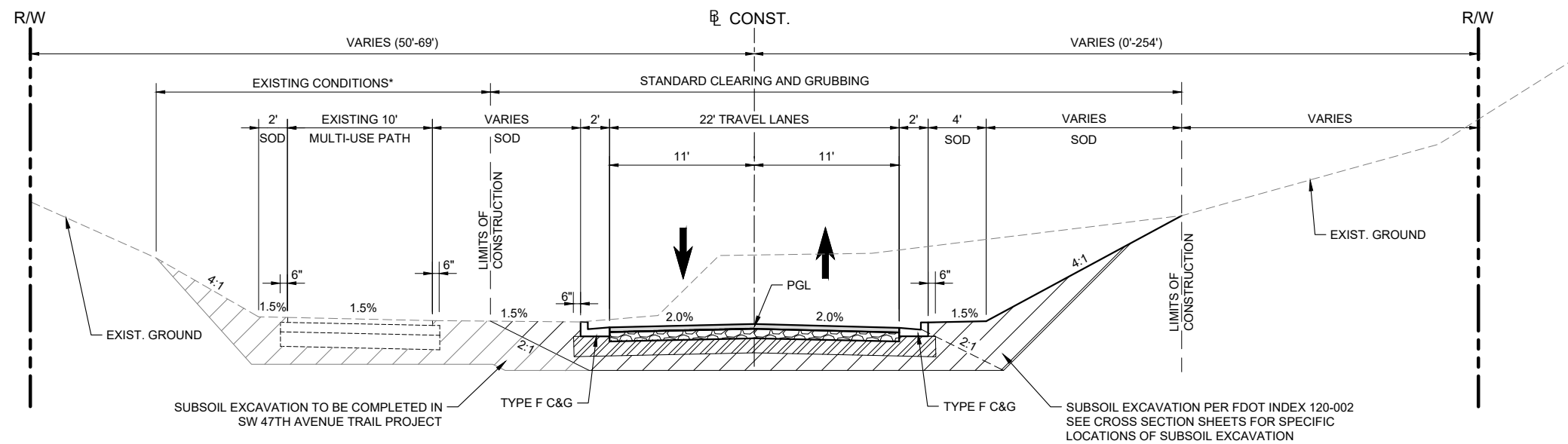


**SECTION B-B**  
**DRA-1 (DRY RETENTION)**  
 TOB: 91.00  
 BOT: 83.00  
 SHGWT: 58.00  
 VERTICAL INFILTRATION RATE: 7 FT/DAY  
 HORIZONTAL HYDRAULIC CONDUCTIVITY: 0.5 FT/DAY  
 NTS

POND BOTTOM TO BE UNDERCUT 3' MIN. AND FILLED IN ACCORDANCE TO SECTION 4-8 (PG 4-4 & PG 4-5) OF THE SUMMARY REPORT OF A ROADWAY SOIL SURVEY AND GEOTECHNICAL SITE EXPLORATION FOR SW 47TH AVENUE AND SW 29TH DRIVE ROADWAY EXPANSION AND BASIN, BY GSE ENGINEERING & CONSULTING DATED OCTOBER 2024

REVISIONS		DATE		LICENSED PROFESSIONAL	CITY OF GAINESVILLE			<b>DRAINAGE RETENTION DETAILS</b>	SHEET NO.
DATE	DESCRIPTION	JANUARY 2025		DAVID C. SOWELL, P.E.	SW 47TH AVENUE EXTENSION				
-	-	NOT FOR CONSTRUCTION	DESIGNED BY KHA	68531	ROAD NO.	COUNTY	PROJECT NO.	08	
			DRAWN BY KHA	DATE:	ALACHUA	142107024			
			CHECKED BY KHA						

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**TYPICAL SECTION**  
**SW 47TH AVE**  
 STA: 16+17.50 TO STA: 20+91.94  
 STA: 100+57.48 TO STA: 101+80.00  
 DESIGN SPEED = 35 MPH  
 POSTED SPEED = 30 MPH  
 NTS

\* SEE CITY OF GAINESVILLE WILD SPACES AND PUBLIC PLACES PERMIT CONSTRUCTION PLANS FOR SW 47TH AVENUE TRAIL FOR MORE INFORMATION

**TRAFFIC DATA**

CURRENT YEAR = 2024, AADT = 300 VPD  
 ESTIMATED OPENING YEAR = 2027, AADT = 9,500 VPD  
 ESTIMATED DESIGN YEAR = 2045, AADT = 11,300 VPD  
 K = 9.0%, D = 52%, T = 3% (24-HOUR)

**PAVEMENT DESIGN**

TYPE FC-12.5 FRICTION COURSE (TRAFFIC C) (1.5")  
 TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC C) (2")  
 OPTIONAL BASE GROUP 6 (8" LIMEROCK, LBR 100)  
 TYPE B STABILIZATION (LBR 40) (12")

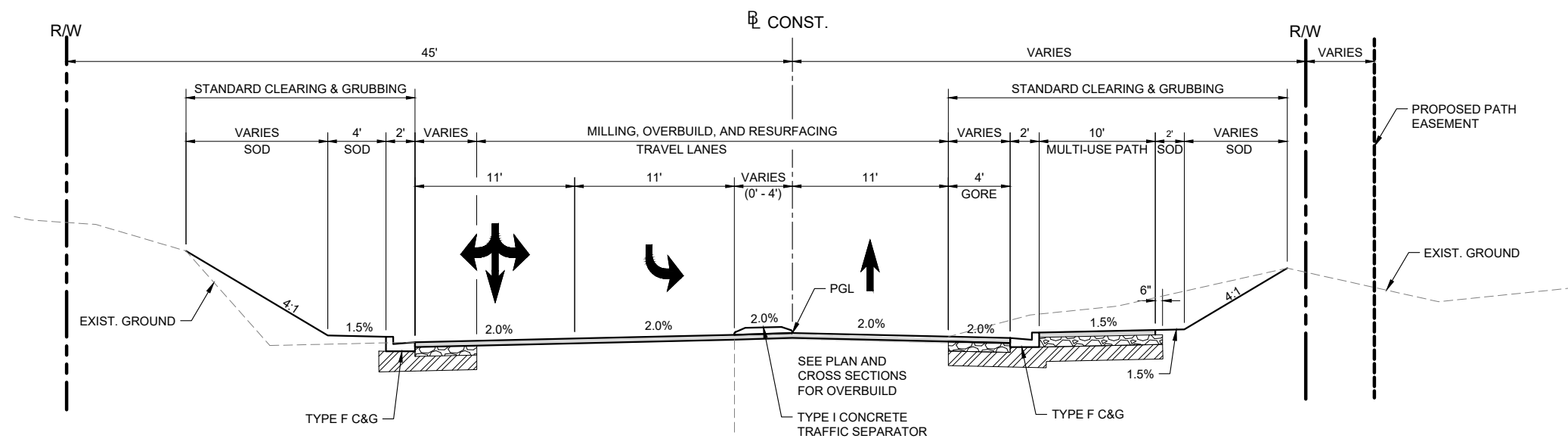
REVISIONS		DATE	Kimley»Horn	LICENSED PROFESSIONAL	CITY OF GAINESVILLE			SHEET NO.
DATE	DESCRIPTION	JANUARY 2025		CHRISTOPHER D. TOWNE, P.E.	SW 47TH AVENUE EXTENSION			
-	-	NOT FOR CONSTRUCTION	DESIGNED BY KHA	66928	ROAD NO.	COUNTY	PROJECT NO.	TYPICAL SECTION 09
			DRAWN BY KHA	DATE:	ALACHUA	142107024		
			CHECKED BY KHA					

Hickernell, Robert

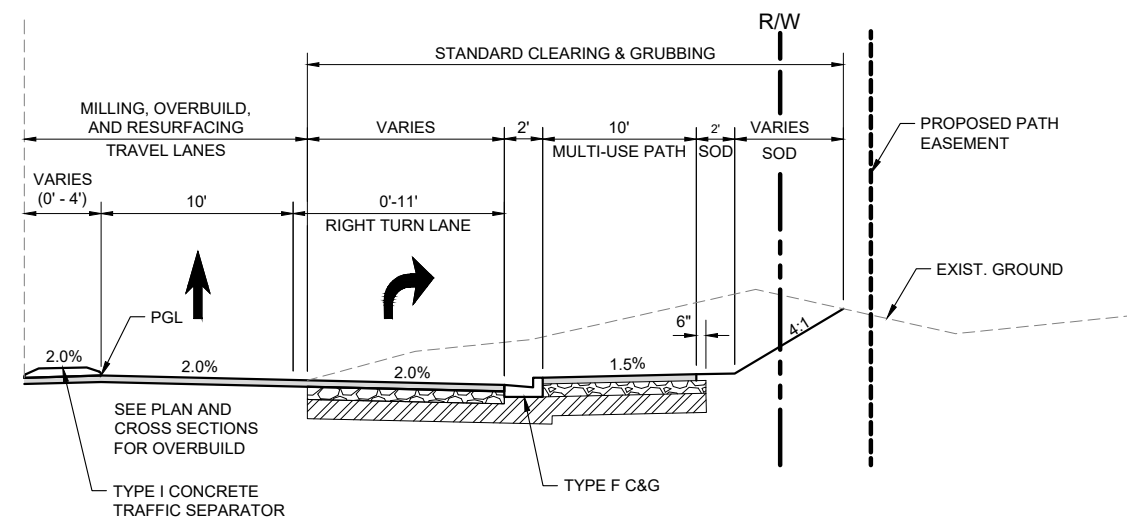
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K:\GVL\_RDWY\142107024-SW 47th Avenue Extension Design\CAD\PlanSheets\TYPICAL SECTION.dwg

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**TYPICAL SECTION**  
**SW 29TH DR**  
 STA: 197+71.59 TO STA: 201+54.04  
 DESIGN SPEED = 25 MPH  
 NTS



STA: 198+99.03 TO STA: 201+54.04

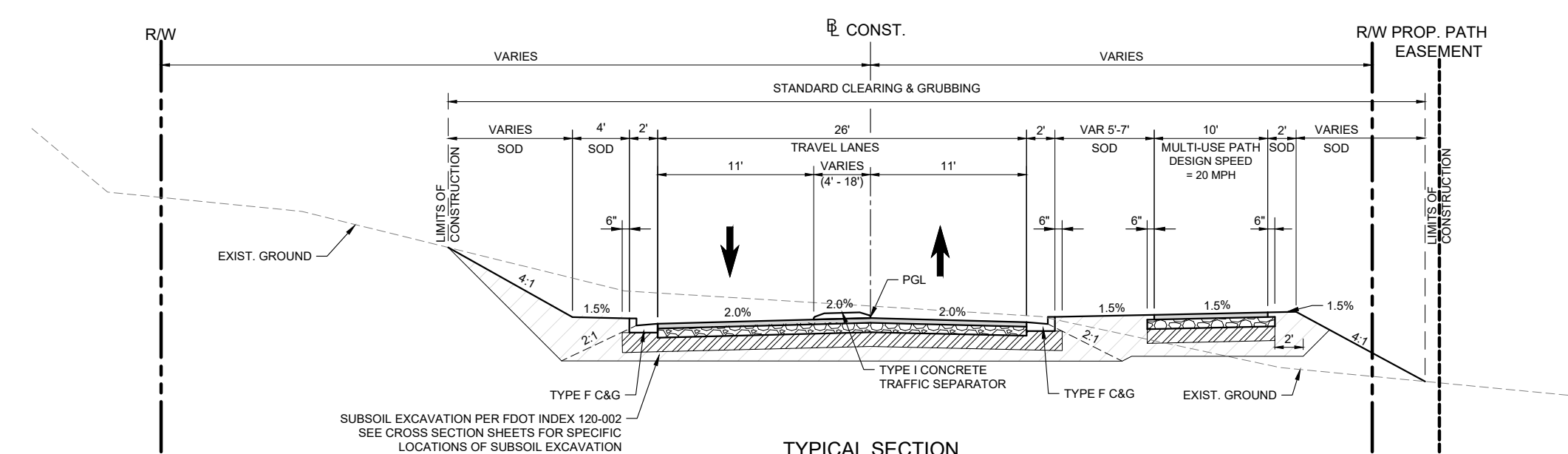
**TRAFFIC DATA**  
 CURRENT YEAR = 2024, AADT = 1,800 VPD  
 ESTIMATED OPENING YEAR = 2027, AADT = 8,200 VPD  
 ESTIMATED DESIGN YEAR = 2045, AADT = 9,800 VPD  
 K = 9.0%, D = 52%, T = 3% (24-HOUR)

- MILL, OVERBUILD, & RESURFACE PAVEMENT DESIGN**  
 MILL EXISTING ASPHALT PAVEMENT (1.5" AVG DEPTH)  
 VARIABLE THICKNESS OVERBUILD WITH SP-9.5 OR SP-12.5 (TRAFFIC C)  
 TYPE FC-12.5 FRICTION CORSE (TRAFFIC C) (1.5")
- WIDENING/FULL DEPTH PAVEMENT DESIGN**  
 TYPE FC-12.5 FRICTION COURSE (TRAFFIC C) (1.5")  
 TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC C) (2")  
 OPTIONAL BASE GROUP 6 (8" LIMEROCK, LBR 100)  
 TYPE B STABILIZATION (LBR 40) (12")
- MULTI-USE PATH PAVEMENT DESIGN**  
 TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC C) (1.5")  
 OPTIONAL BASE GROUP 4 (6" LIMEROCK, LBR 100)  
 TYPE B STABILIZATION (LBR 40) (12")

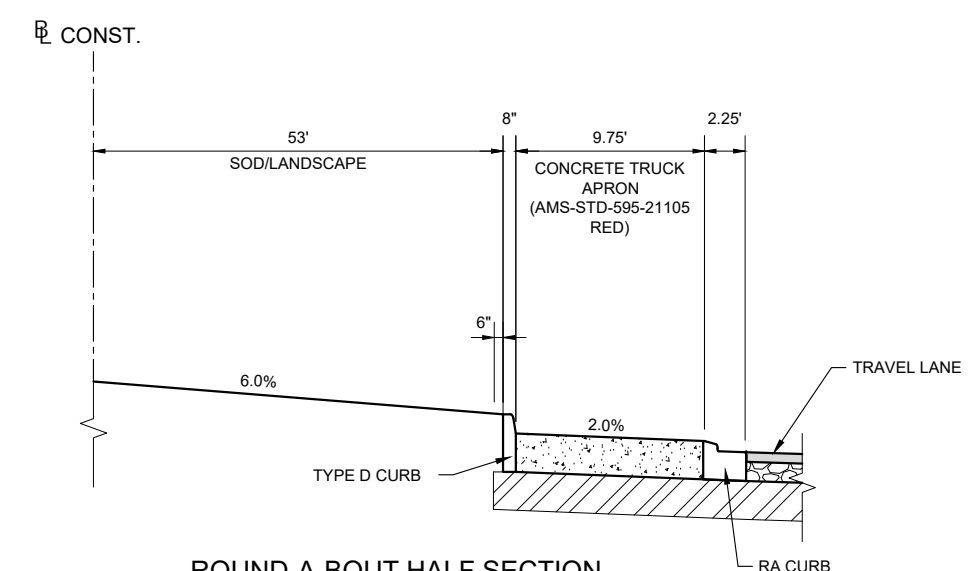
NOTE: CONTRACTOR MAY RECONSTRUCT OVERBUILD AREAS UTILIZING THE FULL DEPTH PAVEMENT DESIGN AT NO ADDITIONAL COST.

REVISIONS		DATE	Kimley»Horn	LICENSED PROFESSIONAL	CITY OF GAINESVILLE			SHEET NO.
DATE	DESCRIPTION	JANUARY 2025			SW 47TH AVENUE EXTENSION			
-	NOT FOR CONSTRUCTION		DESIGNED BY KHA	CHRISTOPHER D. TOWNE, P.E. 66928 DATE: _____	ROAD NO.	COUNTY	PROJECT NO.	TYPICAL SECTION  10
			DRAWN BY KHA			ALACHUA	142107024	
			CHECKED BY KHA					

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**TYPICAL SECTION**  
**SW 29TH DR**  
**STA: 201+54.04 TO STA: 206+38.30**  
**DESIGN SPEED = 25 MPH**  
**NTS**



**ROUND-A-BOUT HALF SECTION**  
**DESIGN SPEED = 20 MPH**  
**NTS**

**WIDENING/FULL DEPTH PAVEMENT DESIGN**

- TYPE FC-12.5 FRICTION COURSE (TRAFFIC C) (1.5")
- TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC C) (2")
- OPTIONAL BASE GROUP 6 (8" LIMEROCK, LBR 100)
- TYPE B STABILIZATION (LBR 40) (12")

**MULTI-USE PATH PAVEMENT DESIGN**

- TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC C) (1.5")
- OPTIONAL BASE GROUP 4 (6" LIMEROCK, LBR 100)
- TYPE B STABILIZATION (LBR 40) (12")

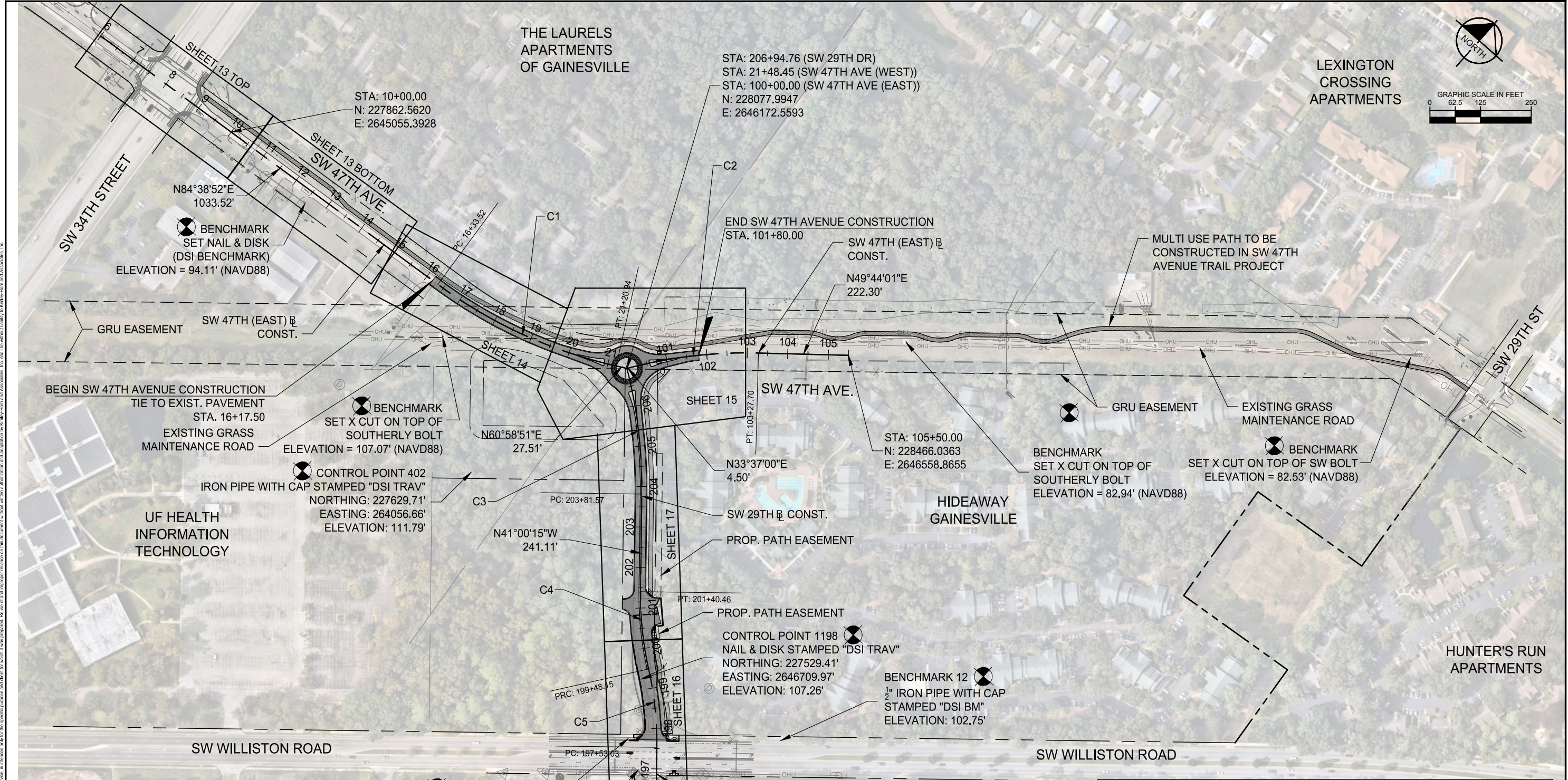
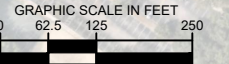
**ROUND-A-BOUT PAVEMENT DESIGN**

- TYPE FC-12.5 FRICTION COURSE (TRAFFIC C) (1.5")
- TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC C) (2")
- CONCRETE TRUCK APRON (12")
- OPTIONAL BASE GROUP 6 (8" LIMEROCK, LBR 100)
- TYPE B STABILIZATION (LBR 40) (12")

**TRAFFIC DATA**

CURRENT YEAR = 2024, AADT = 1,800 VPD  
 ESTIMATED OPENING YEAR = 2027, AADT = 8,200 VPD  
 ESTIMATED DESIGN YEAR = 2045, AADT = 9,800 VPD  
 K = 9.0%, D = 52%, T = 3% (24-HOUR)

REVISIONS		DATE	Kimley»Horn	LICENSED PROFESSIONAL	CITY OF GAINESVILLE			SHEET NO.
DATE	DESCRIPTION	JANUARY 2025			SW 47TH AVENUE EXTENSION			
-	NOT FOR CONSTRUCTION		DESIGNED BY KHA	CHRISTOPHER D. TOWNE, P.E. 66928 DATE: _____	ROAD NO.	COUNTY	PROJECT NO.	TYPICAL SECTION  11
			DRAWN BY KHA			ALACHUA	142107024	
			CHECKED BY KHA					



CURVE TABLE						
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C1	1180.00'	487.42'	N72°48'52"E	483.96'	23°40'01"	247.23'
C2	1149.00'	323.20'	N41°40'30"E	322.14'	16°07'00"	162.68'
C3	1200.00'	313.19'	N48°28'51"W	312.30'	14°57'13"	157.49'
C4	819.00'	192.30'	N47°43'50"W	191.86'	13°27'11"	96.60'
C5	831.00'	195.12'	N47°43'50"W	194.67'	13°27'11"	98.01'

REVISIONS	
DATE	DESCRIPTION
-	NOT FOR CONSTRUCTION

DATE	JANUARY 2025
DESIGNED BY	KHA
DRAWN BY	KHA
CHECKED BY	KHA

**Kimley»Horn**

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 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601  
 PHONE: 352-374-3274  
 WWW.KIMLEY-HORN.COM REGISTRY 35106

LICENSED PROFESSIONAL

CHRISTOPHER D. TOWNE,  
 P.E.  
 66928

DATE: \_\_\_\_\_

**CITY OF GAINESVILLE**  
**SW 47TH AVENUE EXTENSION**

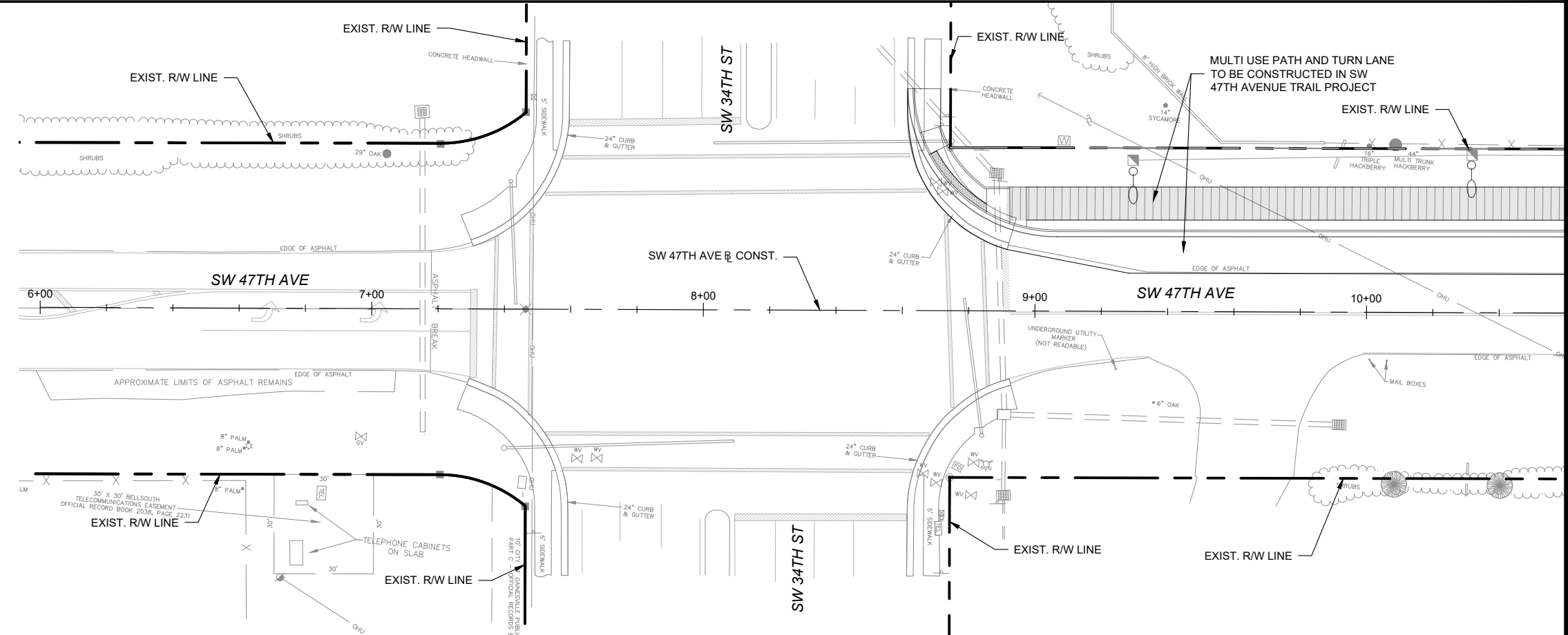
ROAD NO.	COUNTY	PROJECT NO.
	ALACHUA	142107024

**PROJECT LAYOUT AND HORIZONTAL CONTROL**

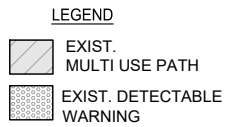
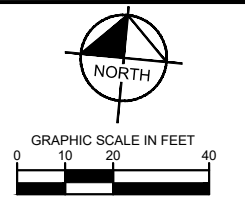
SHEET NO.  
**12**

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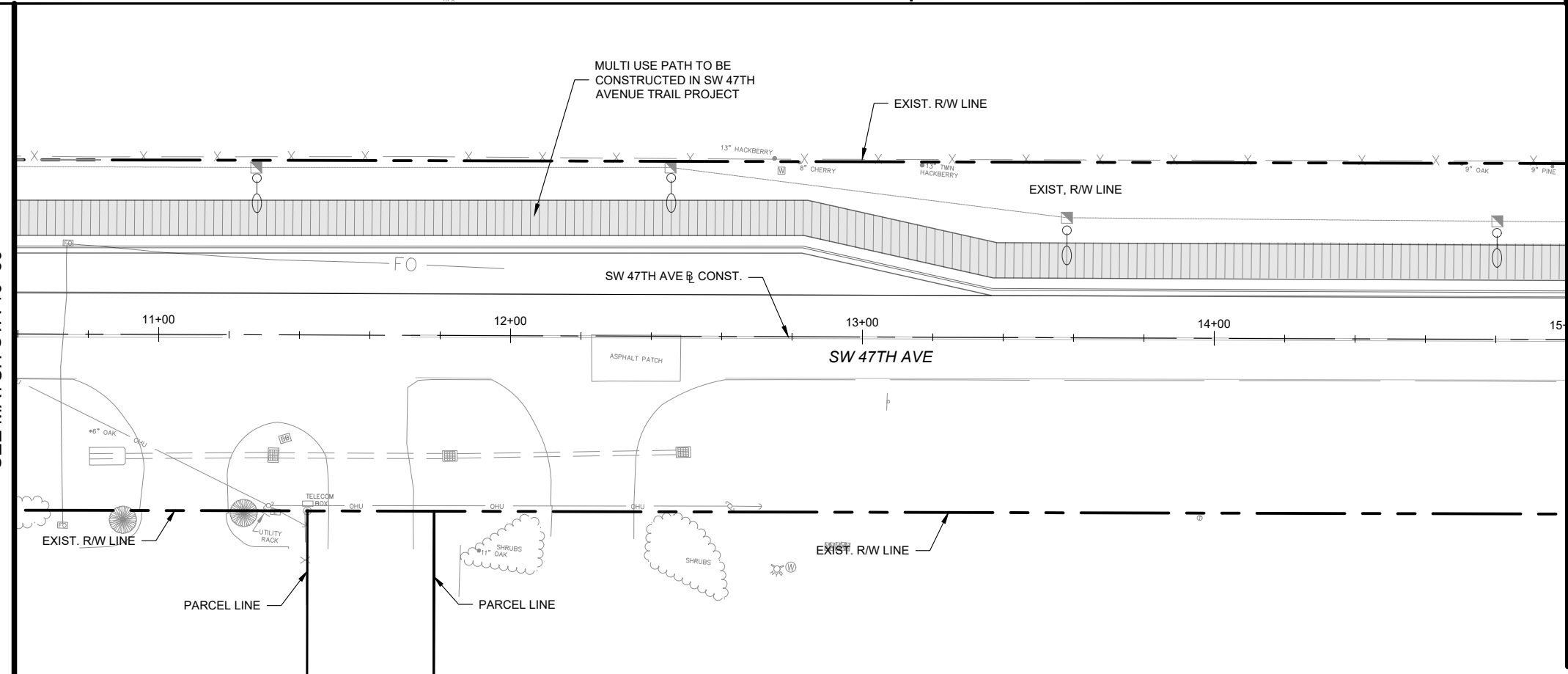
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SEE MATCH STA 10+60

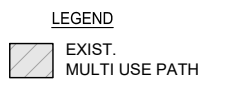
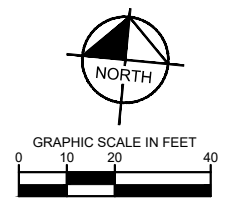


**NOTE:**  
THIS PLAN IS PROVIDED FOR INFORMATION PURPOSES ONLY.



SEE MATCH STA 10+60

SEE MATCH STA 15+00



**NOTE:**  
THIS PLAN IS PROVIDED FOR INFORMATION PURPOSES ONLY.

REVISIONS		DATE
DATE	DESCRIPTION	JANUARY 2025
-	NOT FOR CONSTRUCTION	

DESIGNED BY	KHA
DRAWN BY	KHA
CHECKED BY	KHA

**Kimley»Horn**

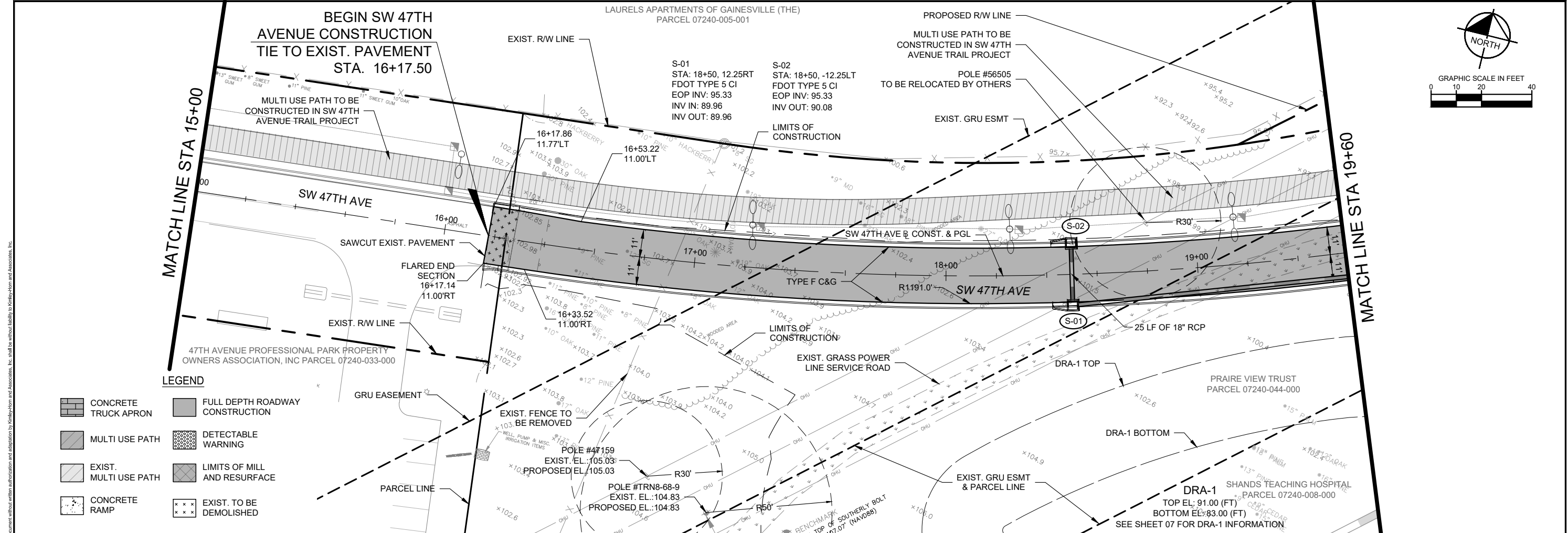
© 2025 KIMLEY-HORN AND ASSOCIATES, INC.  
800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601  
PHONE: 352-374-3274  
WWW.KIMLEY-HORN.COM REGISTRY 35106

LICENSED PROFESSIONAL  
**CHRISTOPHER D. TOWNE, P.E.**  
66928  
DATE: \_\_\_\_\_

CITY OF GAINESVILLE SW 47TH AVENUE EXTENSION		
ROAD NO.	COUNTY	PROJECT NO.
	ALACHUA	142107024

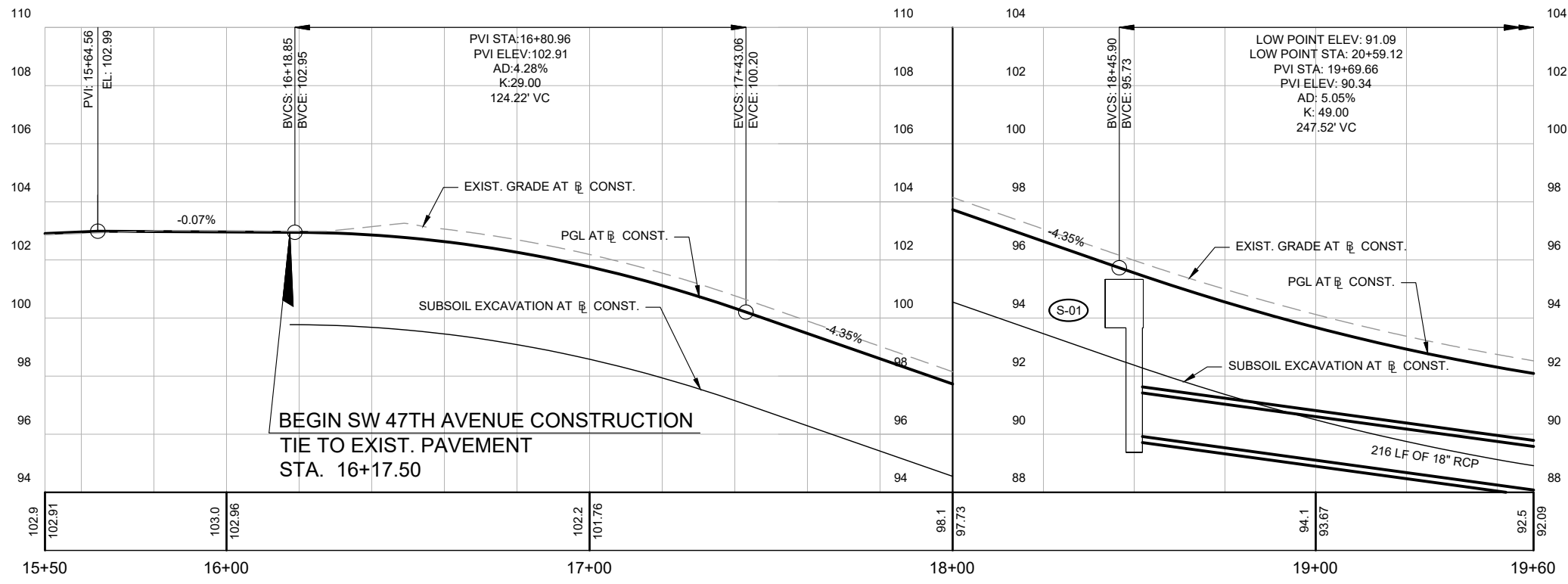
**PLAN SHEET**

SHEET NO.  
**13**



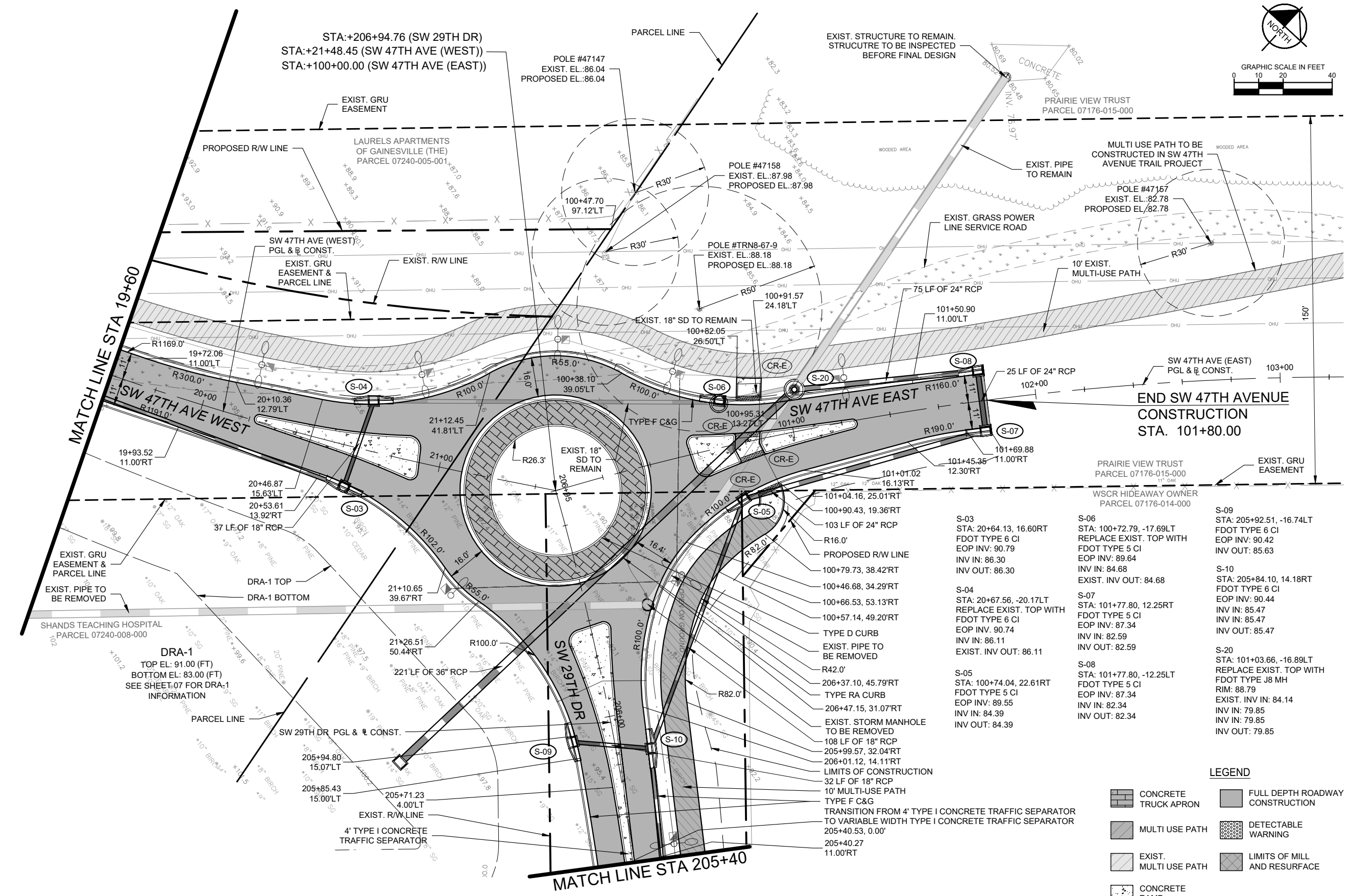
**LEGEND**

	CONCRETE TRUCK APRON		FULL DEPTH ROADWAY CONSTRUCTION
	MULTI USE PATH		DETECTABLE WARNING
	EXIST. MULTI USE PATH		LIMITS OF MILL AND RESURFACE
	CONCRETE RAMP		EXIST. TO BE DEMOLISHED



<b>REVISIONS</b> DATE DESCRIPTION		DATE JANUARY 2025		 © 2025 KIMLEY-HORN AND ASSOCIATES, INC. 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601 PHONE: 352-374-3274 WWW.KIMLEY-HORN.COM REGISTRY 35106	LICENSED PROFESSIONAL CHRISTOPHER D. TOWNE, P.E. 66928 DATE:	<b>CITY OF GAINESVILLE</b> SW 47TH AVENUE EXTENSION			<b>PLAN AND PROFILE</b> SHEET NO. <b>14</b>
						ROAD NO.	COUNTY	PROJECT NO.	
							ALACHUA	142107024	

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<p>S-03 STA: 20+64.13, 16.60RT FDOT TYPE 6 CI EOP INV: 90.79 INV IN: 86.30 INV OUT: 86.30</p>	<p>S-06 STA: 100+72.79, -17.69LT REPLACE EXIST. TOP WITH FDOT TYPE 5 CI EOP INV: 89.64 INV IN: 84.68 EXIST. INV OUT: 84.68</p>	<p>S-09 STA: 205+92.51, -16.74LT FDOT TYPE 6 CI EOP INV: 90.42 INV OUT: 85.63</p>
<p>S-04 STA: 20+67.56, -20.17LT REPLACE EXIST. TOP WITH FDOT TYPE 6 CI EOP INV: 90.74 INV IN: 86.11 EXIST. INV OUT: 86.11</p>	<p>S-07 STA: 101+77.80, 12.25RT FDOT TYPE 5 CI EOP INV: 87.34 INV IN: 82.59 INV OUT: 82.59</p>	<p>S-10 STA: 205+84.10, 14.18RT FDOT TYPE 6 CI EOP INV: 90.44 INV IN: 85.47 INV OUT: 85.47</p>
<p>S-05 STA: 100+74.04, 22.61RT FDOT TYPE 5 CI EOP INV: 89.55 INV IN: 84.39 INV OUT: 84.39</p>	<p>S-08 STA: 101+77.80, -12.25LT FDOT TYPE 5 CI EOP INV: 87.34 INV IN: 82.34 INV OUT: 82.34</p>	<p>S-20 STA: 101+03.66, -16.89LT REPLACE EXIST. TOP WITH FDOT TYPE J8 MH RIM: 88.79 EXIST. INV IN: 84.14 INV IN: 79.85 INV IN: 79.85 INV OUT: 79.85</p>

**LEGEND**

	CONCRETE TRUCK APRON		FULL DEPTH ROADWAY CONSTRUCTION
	MULTI USE PATH		DETECTABLE WARNING
	EXIST. MULTI USE PATH		LIMITS OF MILL AND RESURFACE
	CONCRETE RAMP		

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<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>NOT FOR CONSTRUCTION</td> </tr> </tbody> </table>		DATE	DESCRIPTION	-	NOT FOR CONSTRUCTION	<p>DATE JANUARY 2025</p> <p>DESIGNED BY KHA</p> <p>DRAWN BY KHA</p> <p>CHECKED BY KHA</p>	<p><b>Kimley»Horn</b></p> <p>© 2025 KIMLEY-HORN AND ASSOCIATES, INC. 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601 PHONE: 352-374-3274 WWW.KIMLEY-HORN.COM REGISTRY 35106</p>	<p>LICENSED PROFESSIONAL</p> <p>CHRISTOPHER D. TOWNE, P.E. 66928</p> <p>DATE: _____</p>	<p><b>CITY OF GAINESVILLE</b> SW 47TH AVENUE EXTENSION</p> <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>PROJECT NO.</th> </tr> <tr> <td></td> <td>ALACHUA</td> <td>142107024</td> </tr> </table>	ROAD NO.	COUNTY	PROJECT NO.		ALACHUA	142107024	<p><b>PLAN SHEET</b></p>	<p>SHEET NO. <b>15</b></p>
DATE	DESCRIPTION																
-	NOT FOR CONSTRUCTION																
ROAD NO.	COUNTY	PROJECT NO.															
	ALACHUA	142107024															

S-11  
STA: 198+49.67, -28.25LT  
FDOT TYPE 6 CI  
EOP INV: 106.39  
INV OUT: 99.00

S-12  
STA: 198+41.16, 11.25RT  
FDOT TYPE 6 CI  
EOP INV: 106.74  
INV IN: 98.50  
INV OUT: 98.50

S-13  
STA: 198+58.74, 26.56RT  
FDOT TYPE P8 MH  
RIM: 106.67  
INV IN: 98.17  
CONTRACTOR TO VERIFY  
EXIST. INV PRIOR TO  
STRUCTURE FABRICATION

O.R.B. 4161, PAGE 561

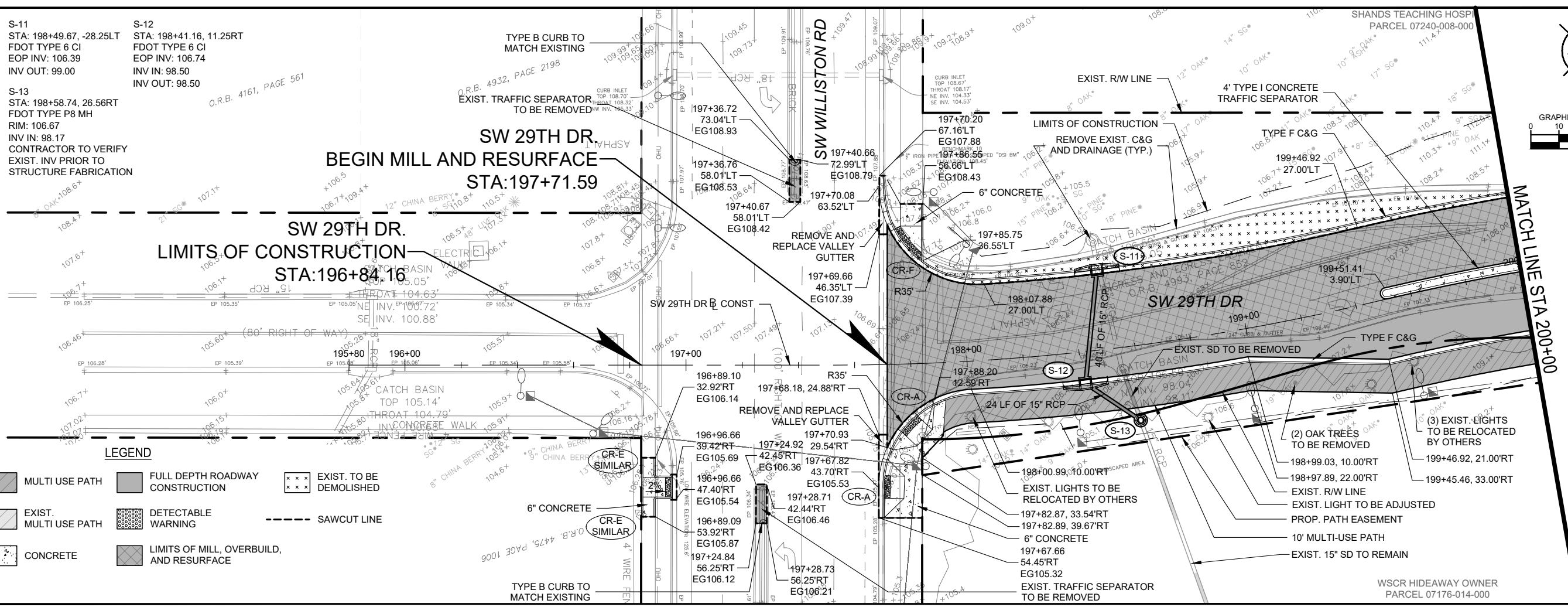
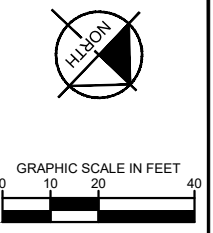
TYPE B CURB TO  
MATCH EXISTING  
EXIST. TRAFFIC SEPARATOR  
TO BE REMOVED

SW 29TH DR.  
BEGIN MILL AND RESURFACE  
STA:197+71.59

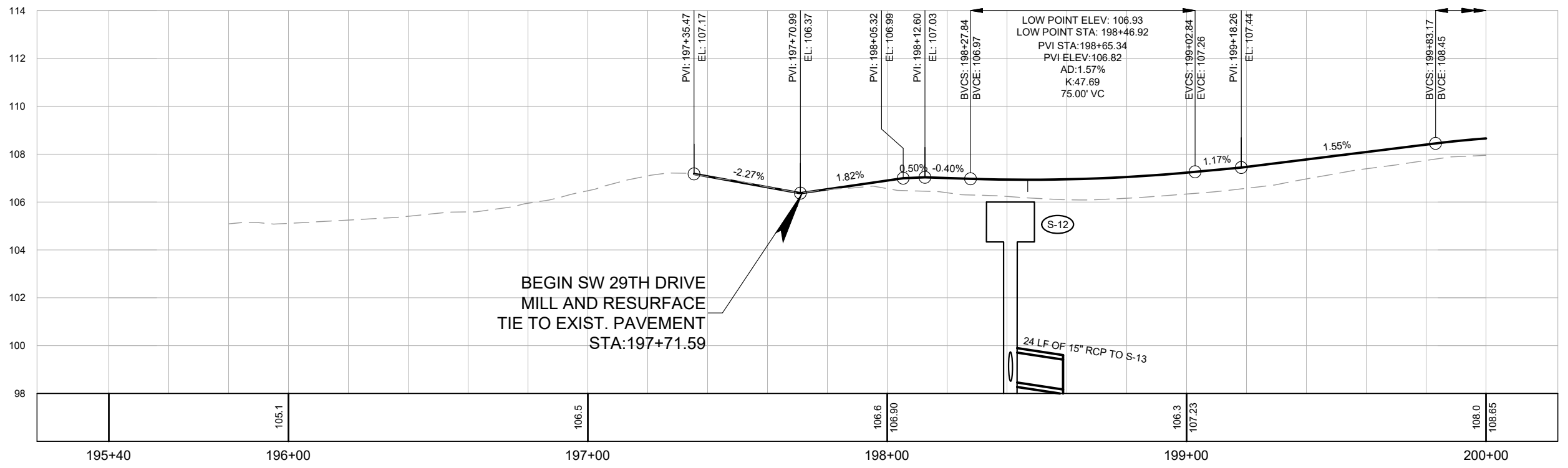
SW 29TH DR.  
LIMITS OF CONSTRUCTION  
STA:196+84.16

**LEGEND**

	MULTI USE PATH		FULL DEPTH ROADWAY CONSTRUCTION		EXIST. TO BE DEMOLISHED
	EXIST. MULTI USE PATH		DETECTABLE WARNING		SAWCUT LINE
	CONCRETE		LIMITS OF MILL, OVERBUILD, AND RESURFACE		



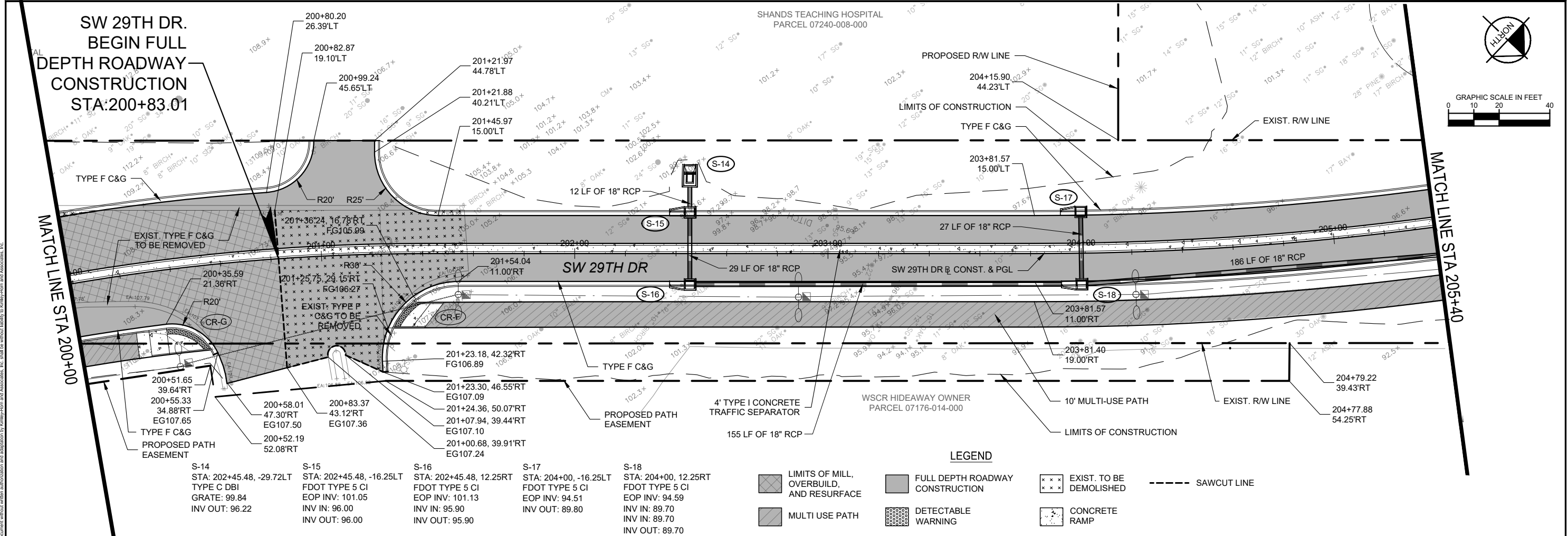
SCALE:  
HORZ. 1"=40'  
VERT. 1"=5'



BEGIN SW 29TH DRIVE  
MILL AND RESURFACE  
TIE TO EXIST. PAVEMENT  
STA:197+71.59

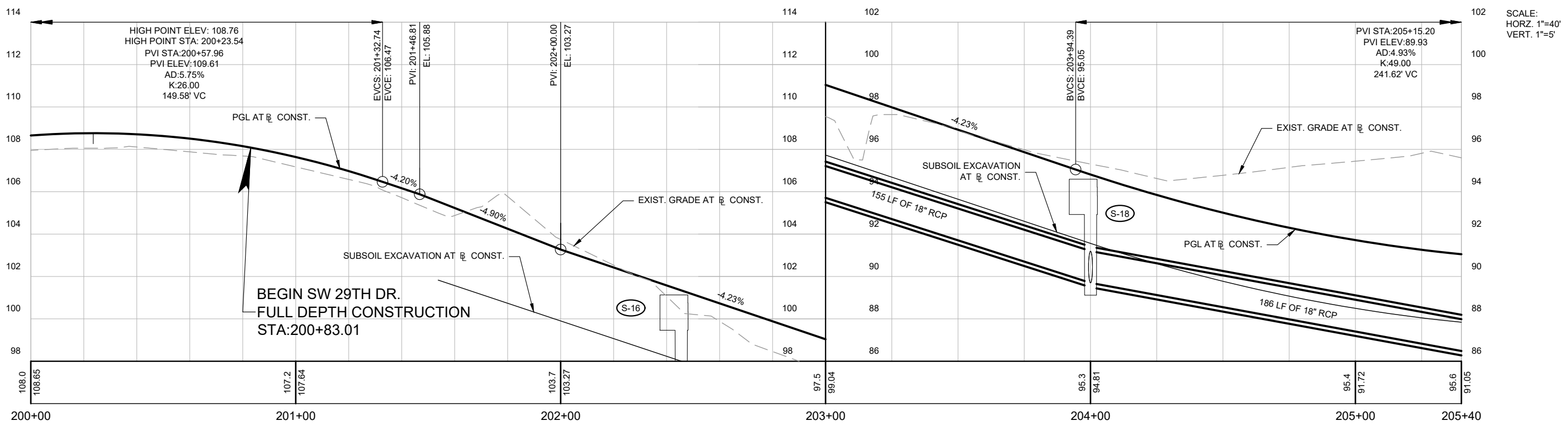
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NOT FOR CONSTRUCTION		DESIGNED BY KHA DRAWN BY KHA CHECKED BY KHA				ROAD NO.	COUNTY ALACHUA	PROJECT NO. 142107024		



Station	Structure	Notes
S-14	STA: 202+45.48, -29.72LT	TYPE C DBI GRATE: 99.84 INV OUT: 96.22
S-15	STA: 202+45.48, -16.25LT	FDOT TYPE 5 CI EOP INV: 101.05 INV IN: 96.00 INV OUT: 96.00
S-16	STA: 202+45.48, 12.25RT	FDOT TYPE 5 CI EOP INV: 101.13 INV IN: 95.90 INV OUT: 95.90
S-17	STA: 204+00, -16.25LT	FDOT TYPE 5 CI EOP INV: 94.51 INV IN: 89.70 INV OUT: 89.80
S-18	STA: 204+00, 12.25RT	FDOT TYPE 5 CI EOP INV: 94.59 INV IN: 89.70 INV OUT: 89.70

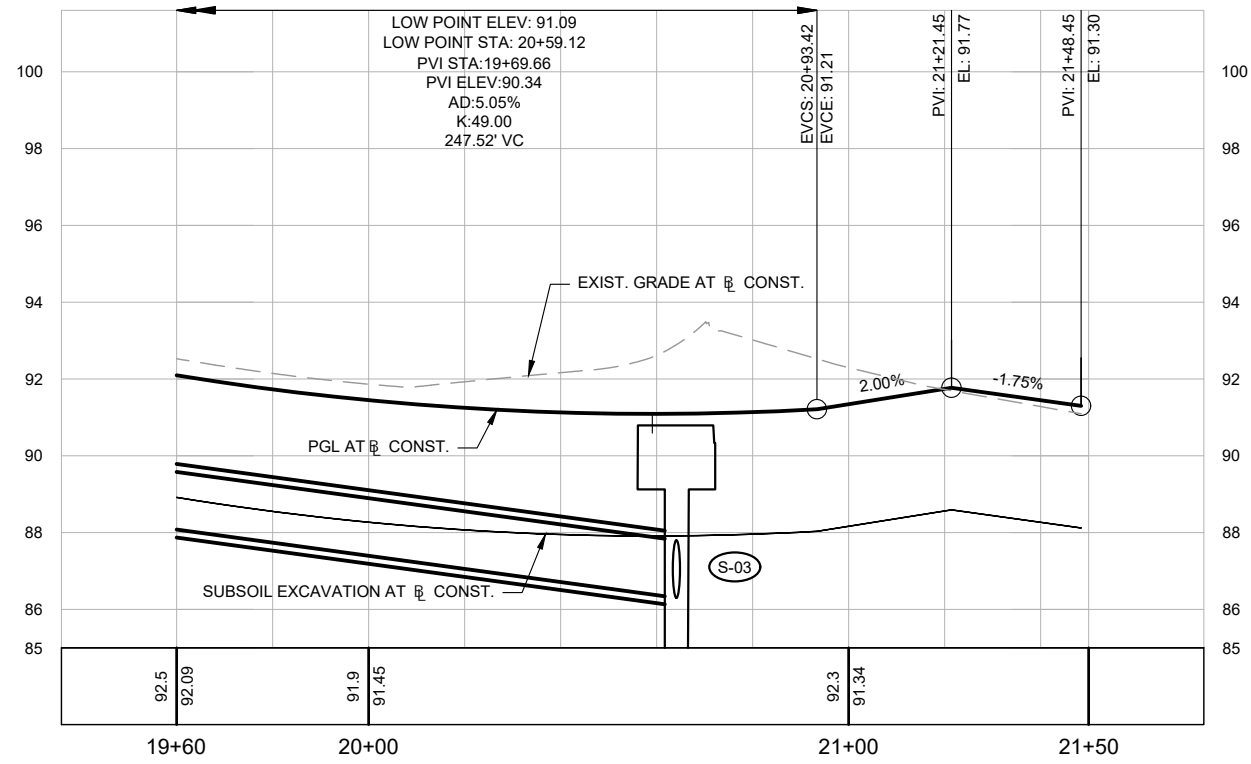
LEGEND			
	LIMITS OF MILL, OVERBUILD, AND RESURFACE		FULL DEPTH ROADWAY CONSTRUCTION
	MULTI USE PATH		SAWCUT LINE
	EXIST. TO BE DEMOLISHED		CONCRETE RAMP
	DETECTABLE WARNING		



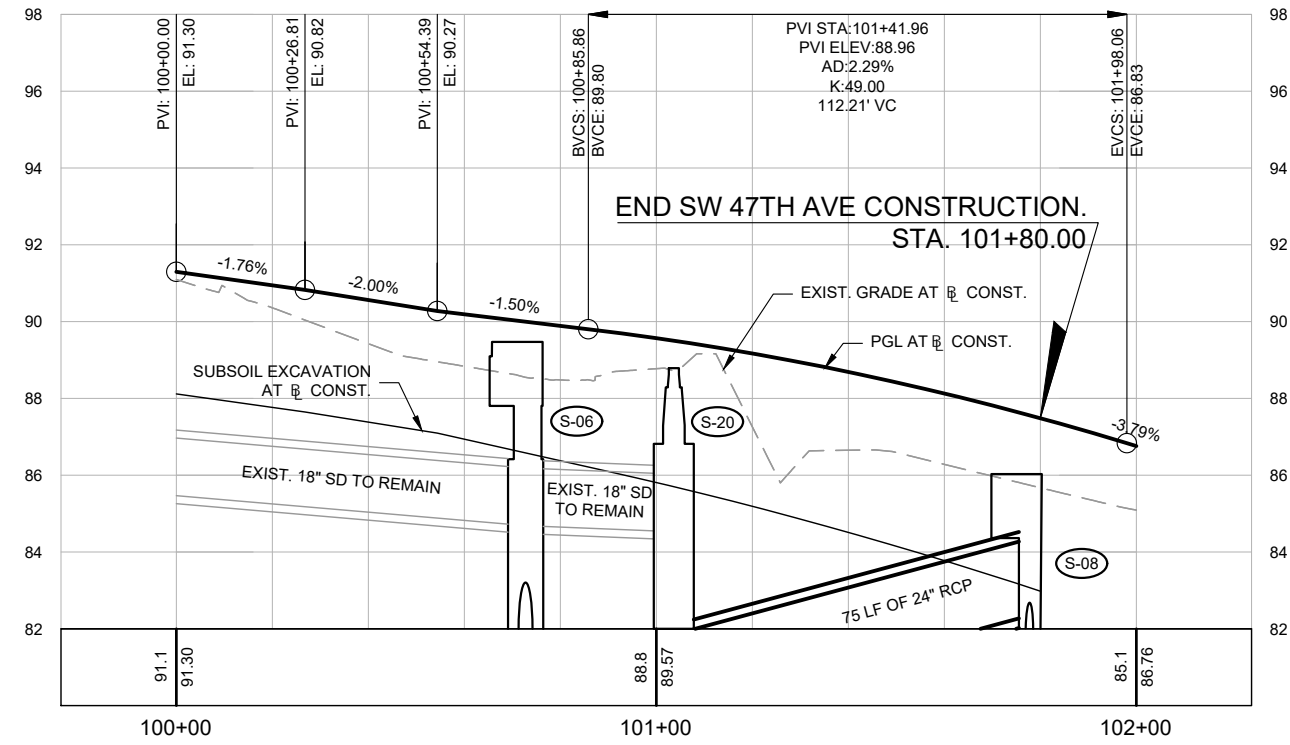
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DATE	DESCRIPTION	JANUARY 2025			SW 47TH AVENUE EXTENSION				17
-	NOT FOR CONSTRUCTION		DESIGNED BY: KHA	CHRISTOPHER D. TOWNE, P.E.	ROAD NO.	COUNTY	PROJECT NO.	ALACHUA	
			DRAWN BY: KHA	66928					
			CHECKED BY: KHA	DATE:					

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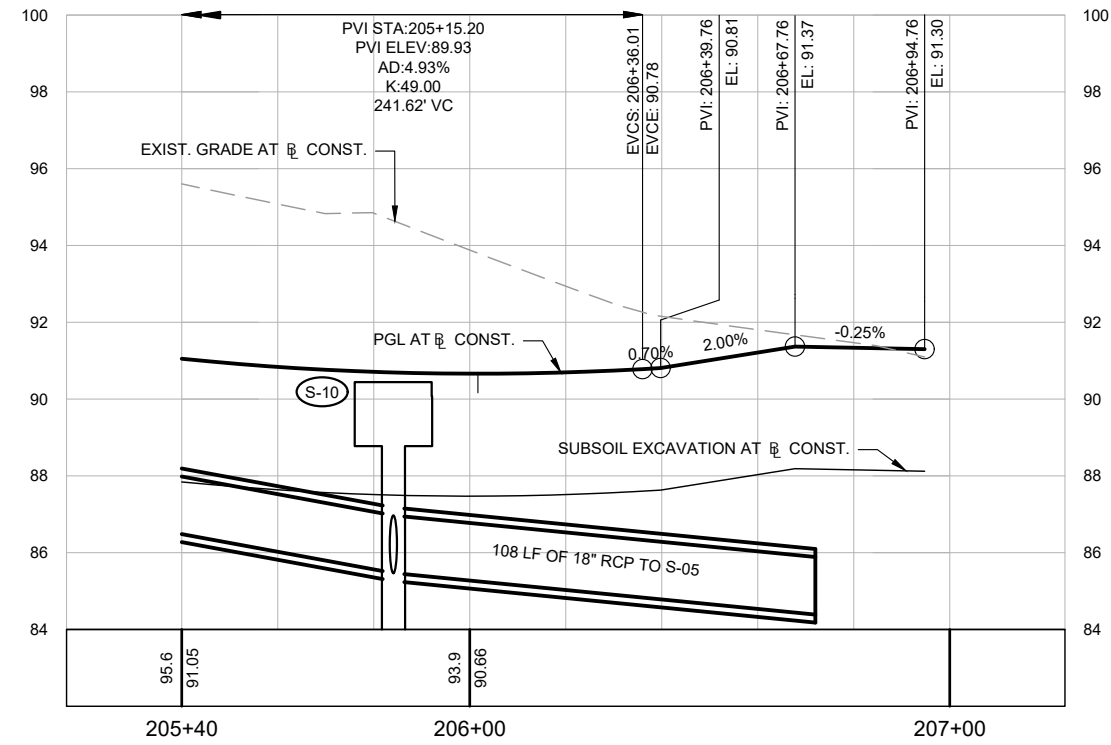
SW 47TH AVE (WEST)



SW 47TH AVE (EAST)



SW 29TH DR

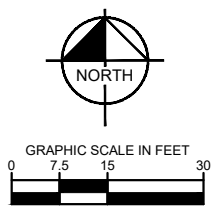
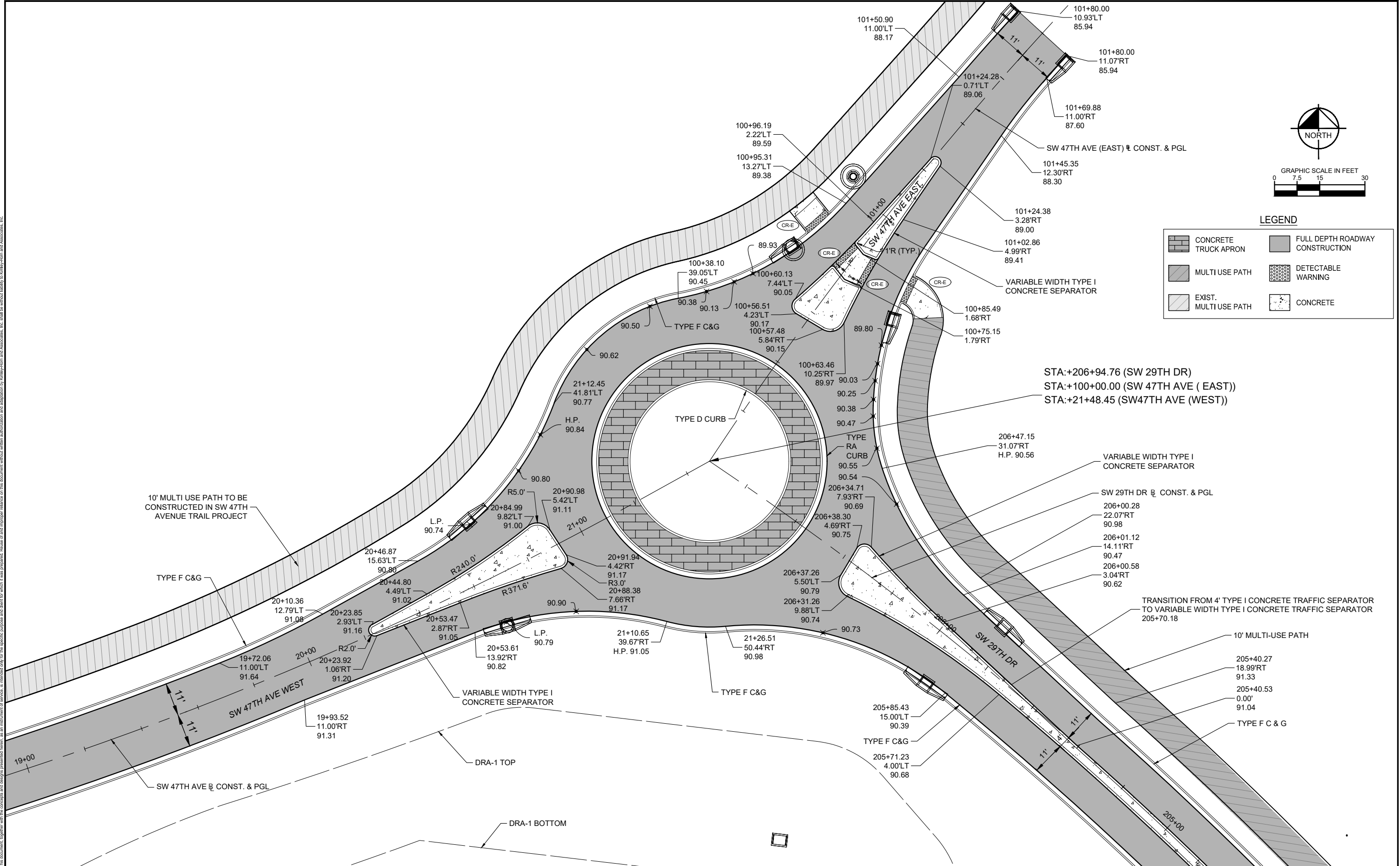


SCALE:  
HORZ: 1" = 40'  
VERT: 1" = 5'

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		DESIGNED BY KHA DRAWN BY KHA CHECKED BY KHA			CHRISTOPHER D. TOWNE, P.E. 66928 DATE:					ROAD NO. COUNTY PROJECT NO. ALACHUA 142107024		
NOT FOR CONSTRUCTION					HICKNELL, ROBERT 1/16/2025 2:12:44 PM					K:\GVL_RDWY\142107024_SW47thAveExt\Design\CD\PlanSheets\PLAN AND PROFILE\CD1471.dwg		

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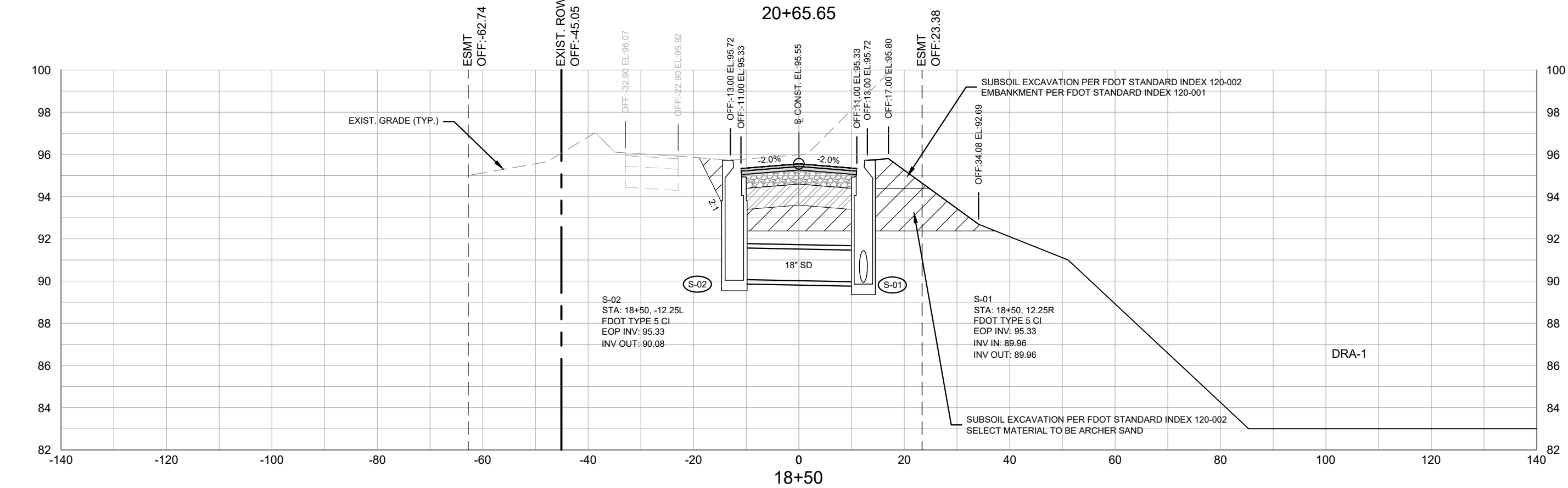
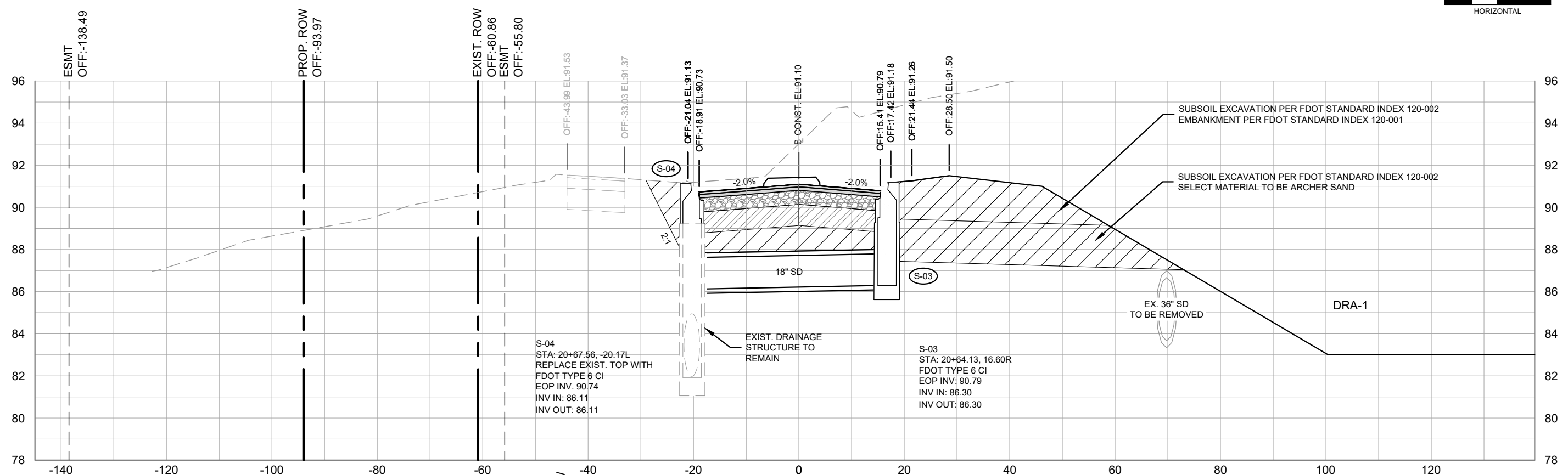
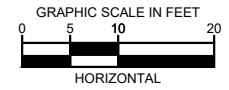


**LEGEND**

	CONCRETE		FULL DEPTH ROADWAY CONSTRUCTION
	CONCRETE TRUCK APRON		DETECTABLE WARNING
	MULTI USE PATH		CONCRETE
	EXIST. MULTI USE PATH		

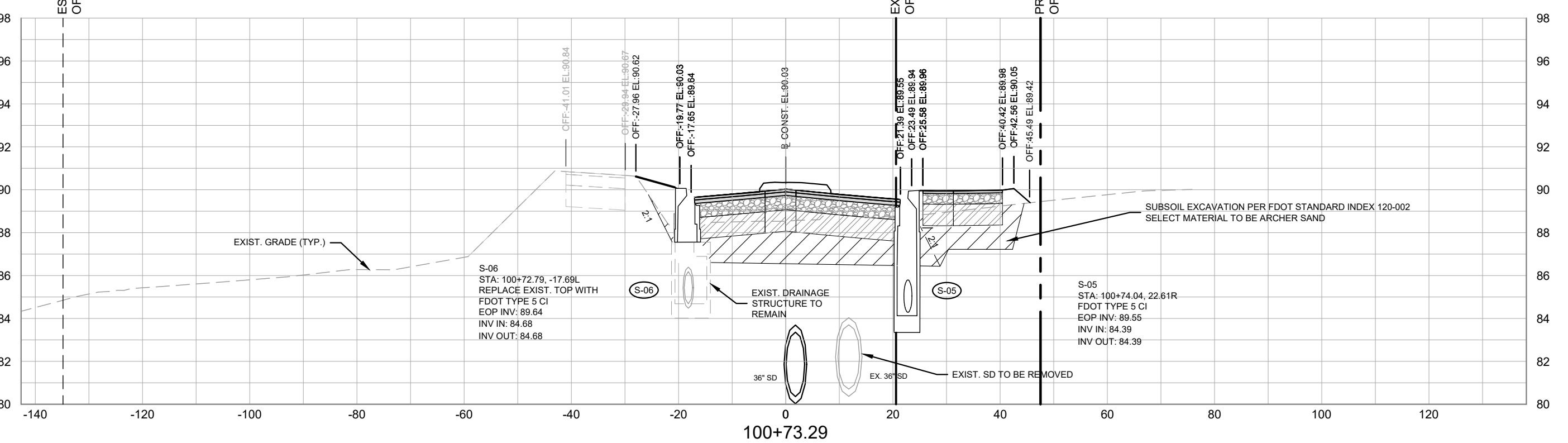
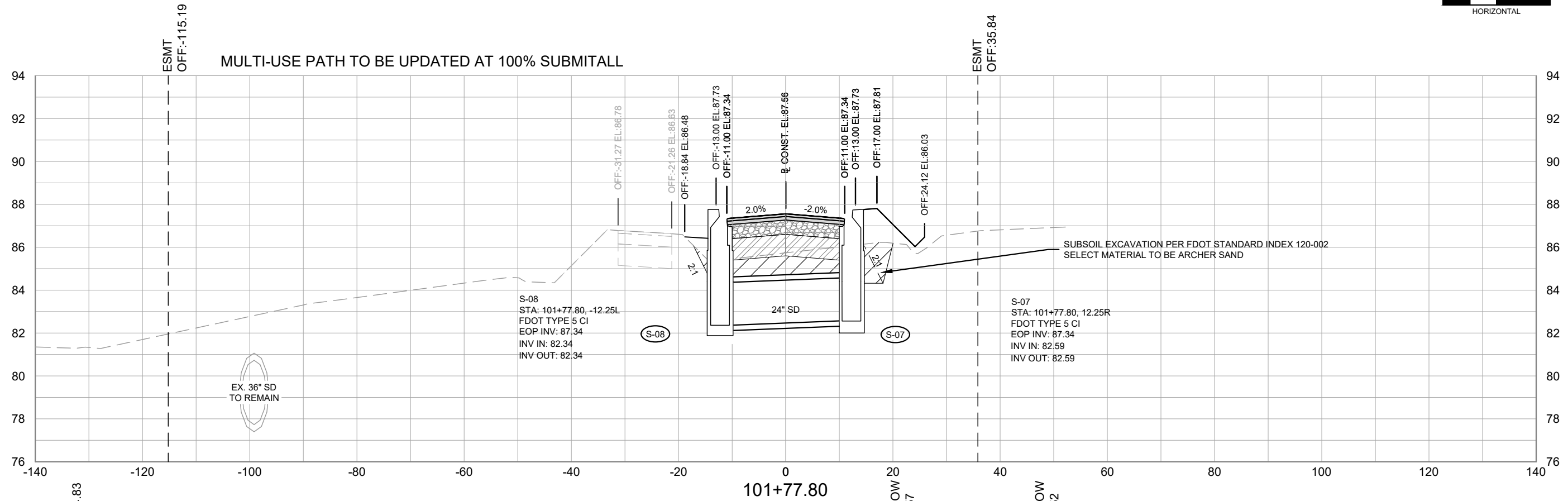
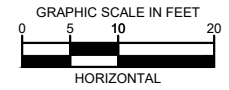
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 STA:+100+00.00 (SW 47TH AVE ( EAST))  
 STA:+21+48.45 (SW47TH AVE (WEST))

<b>REVISIONS</b> DATE DESCRIPTION		DATE JANUARY 2025		 © 2025 KIMLEY-HORN AND ASSOCIATES, INC. 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601 PHONE: 352-374-3274 WWW.KIMLEY-HORN.COM REGISTRY 35106	LICENSED PROFESSIONAL <b>CITY OF GAINESVILLE</b> SW 47TH AVENUE EXTENSION			<b>ROUNDABOUT SPLITTER ISLAND</b> <b>DETAIL AND GRADING PLAN</b>	SHEET NO. <b>19</b>							
		DESIGNED BY KHA			CHRISTOPHER D. TOWNE, P.E. 66928					<table border="1" style="width: 100%;"> <tr> <td>ROAD NO.</td> <td>COUNTY</td> <td>PROJECT NO.</td> </tr> <tr> <td></td> <td>ALACHUA</td> <td>142107024</td> </tr> </table>	ROAD NO.	COUNTY	PROJECT NO.		ALACHUA	142107024
ROAD NO.	COUNTY	PROJECT NO.														
	ALACHUA	142107024														
		DRAWN BY KHA		DATE:												
		CHECKED BY KHA		1/16/2025 2:13:38 PM												
NOT FOR CONSTRUCTION																



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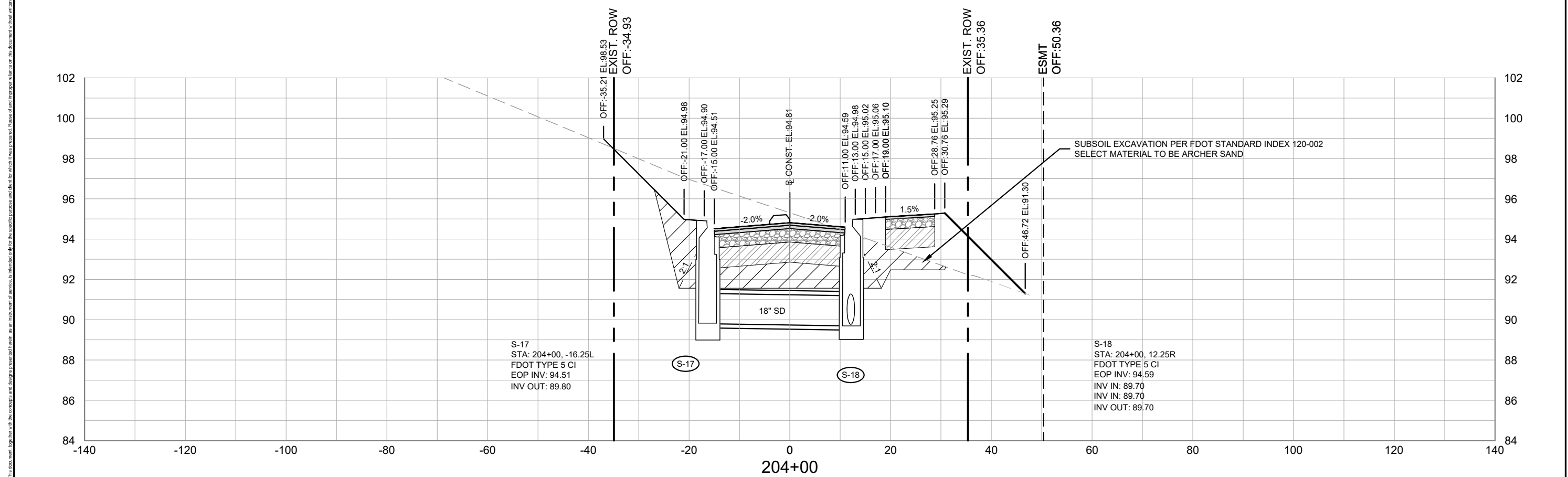
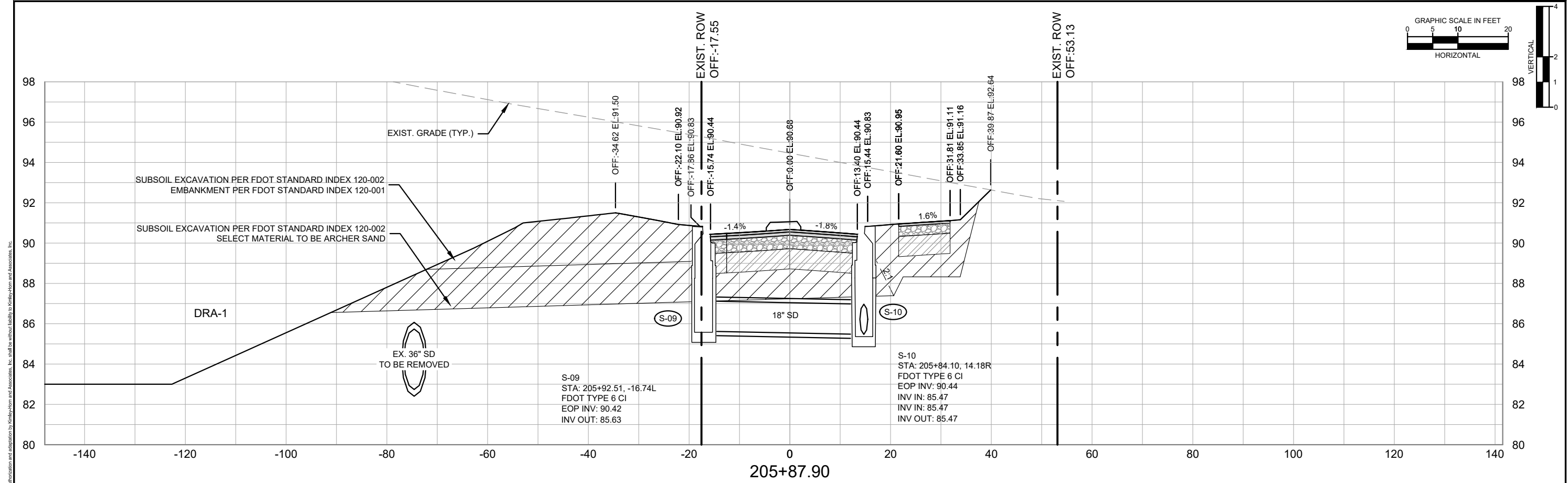
<b>REVISIONS</b> DATE DESCRIPTION		DATE JANUARY 2025		 © 2025 KIMLEY-HORN AND ASSOCIATES, INC. 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601 PHONE: 352-374-3274 WWW.KIMLEY-HORN.COM REGISTRY 35106	LICENSED PROFESSIONAL <b>DAVID C. SOWELL, P.E.</b> 68531 DATE:			<b>CITY OF GAINESVILLE</b> SW 47TH AVENUE EXTENSION ROAD NO. COUNTY PROJECT NO. ALACHUA 142107024			<b>SW 47TH AVE (WEST)          DRAINAGE SECTION</b>		SHEET NO. <b>DR-01</b>
NOT FOR CONSTRUCTION		DESIGNED BY KHA DRAWN BY KHA CHECKED BY KHA			HICKNELL, ROBERT 1/16/2025 2:14:34 PM			K:\GVL_RDWY\142107024-SW 47th Avenue Extension Design\CAD\PlanSheets\DRAINAGE SECTIONS.dwg					



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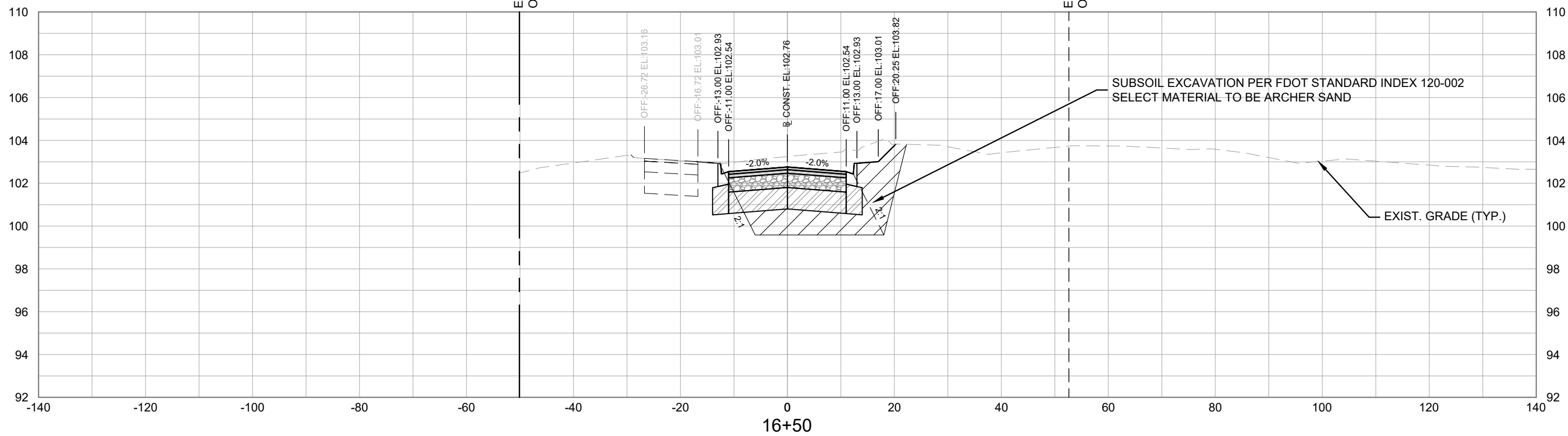
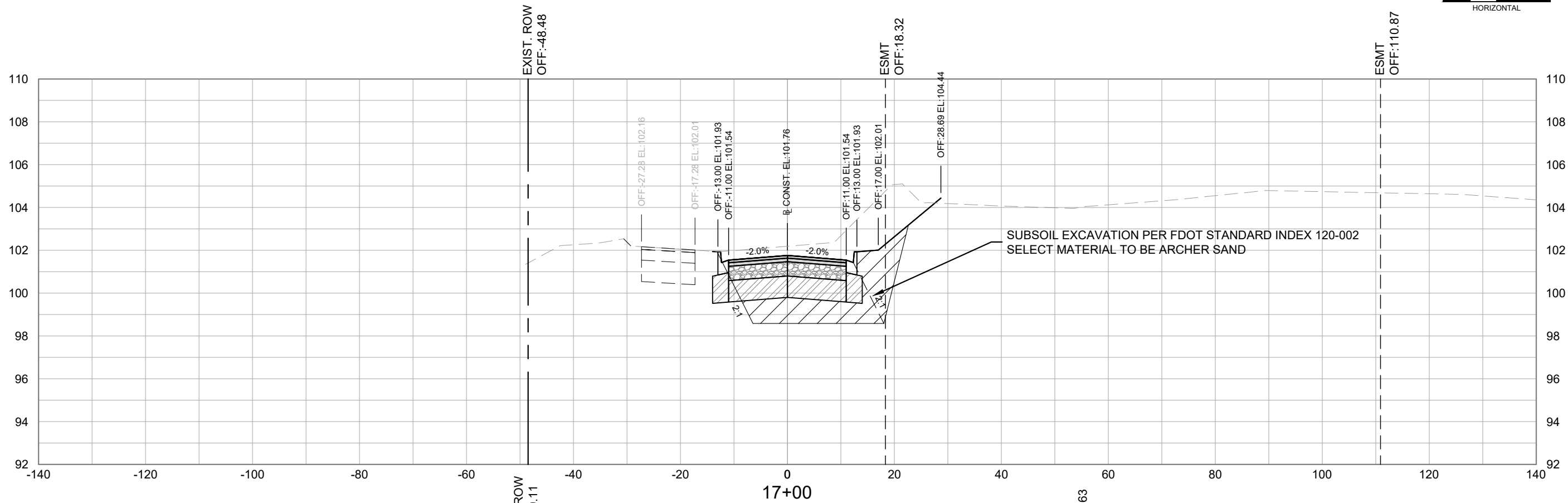
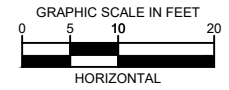
<b>REVISIONS</b> DATE DESCRIPTION		DATE JANUARY 2025		 © 2025 KIMLEY-HORN AND ASSOCIATES, INC. 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601 PHONE: 352-374-3274 WWW.KIMLEY-HORN.COM REGISTRY 35106	LICENSED PROFESSIONAL <b>DAVID C. SOWELL, P.E.</b> 68531 DATE:			<b>CITY OF GAINESVILLE</b> SW 47TH AVENUE EXTENSION ROAD NO. COUNTY PROJECT NO. ALACHUA 142107024			<b>SW 47TH AVE (EAST)          DRAINAGE SECTION</b>		SHEET NO. <b>DR-02</b>
NOT FOR CONSTRUCTION		DESIGNED BY KHA DRAWN BY KHA CHECKED BY KHA			HICKERNELL, ROBERT 1/16/2025 4:45:28 PM			K:\GVL_RDWY\142107024-SW 47th Avenue Extension Design\CAD\PlanSheets\DRAINAGE SECTIONS.dwg					





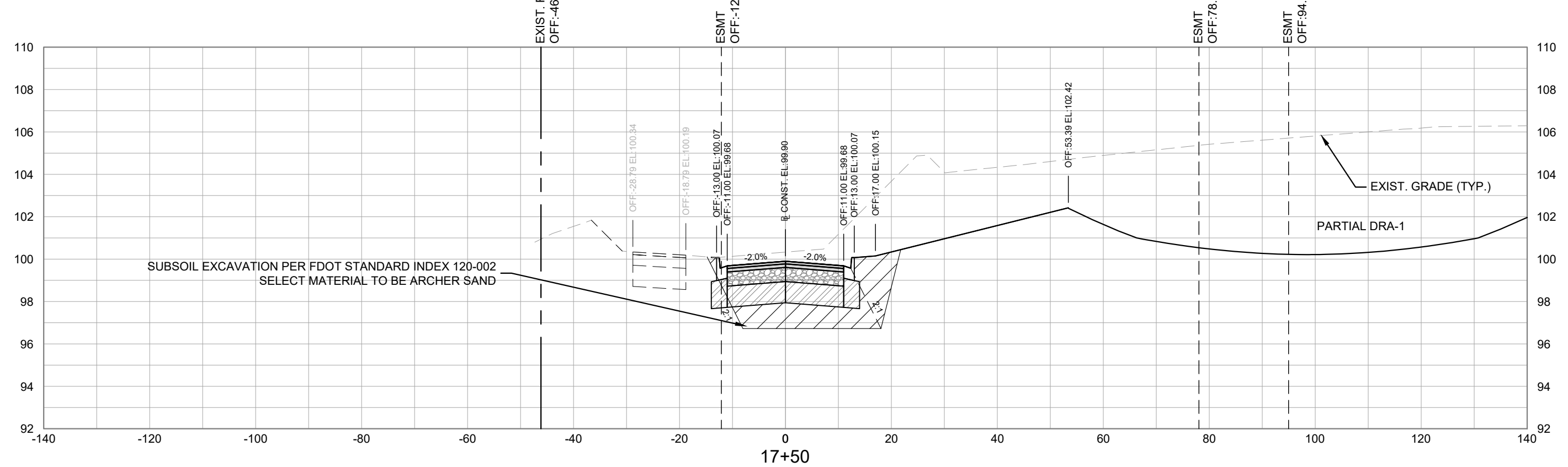
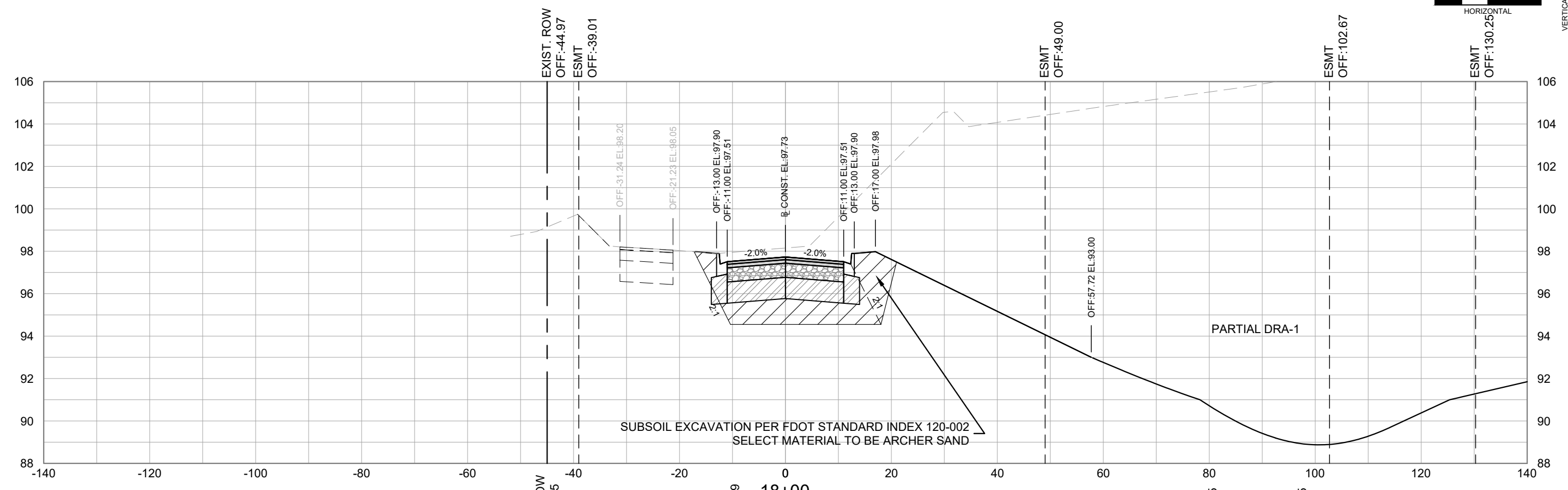
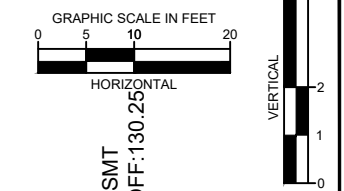
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DATE	DESCRIPTION	JANUARY 2025		DAVID C. SOWELL, P.E.	ROAD NO.	COUNTY	PROJECT NO.		
-	-	NOT FOR CONSTRUCTION	<small>© 2025 KIMLEY-HORN AND ASSOCIATES, INC. 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601 PHONE: 352-374-3274 WWW.KIMLEY-HORN.COM REGISTRY 35106</small>	68531	ALACHUA	142107024	DR-04		

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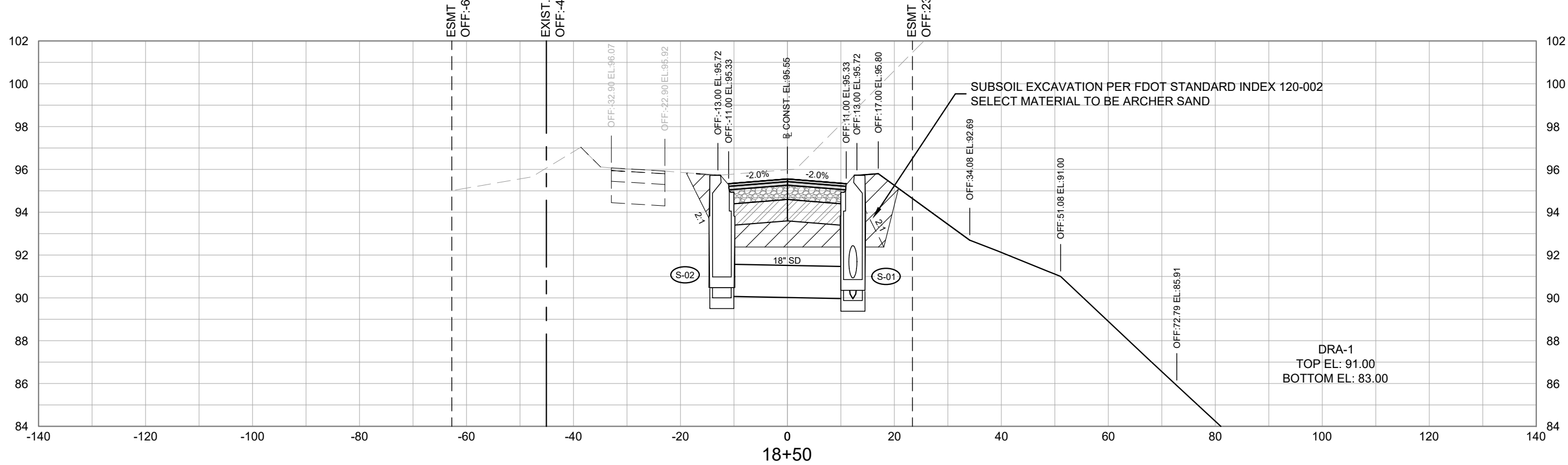
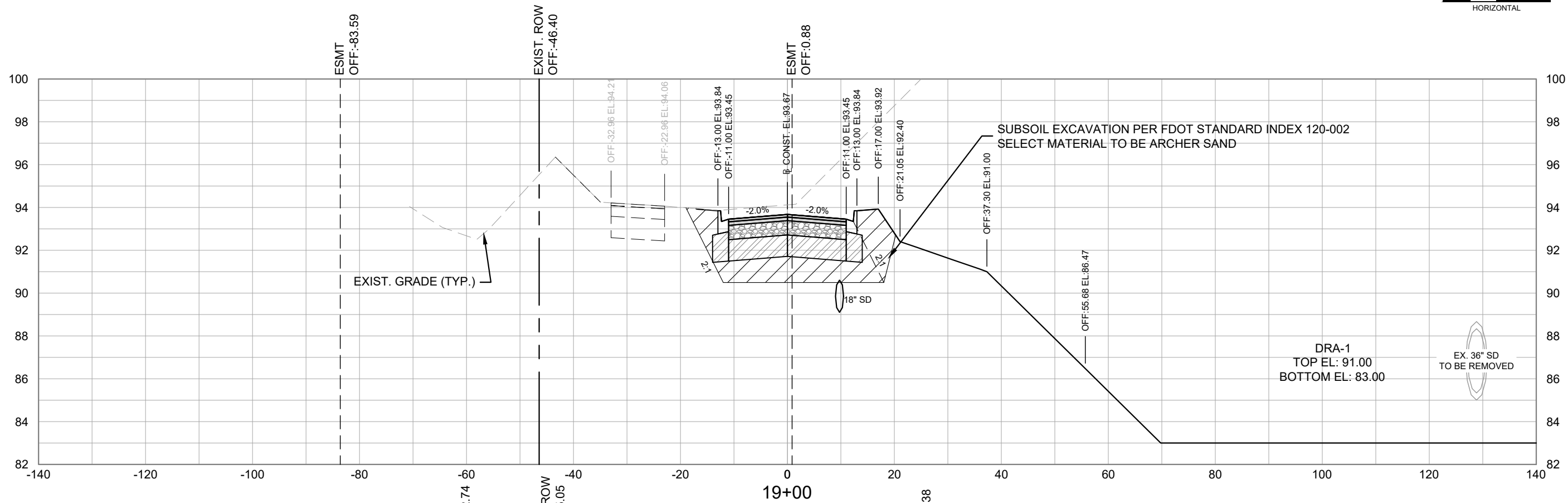
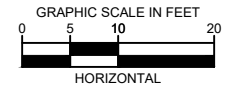
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		DESIGNED BY KHA DRAWN BY KHA CHECKED BY KHA		ROAD NO. COUNTY PROJECT NO.	ALACHUA 142107024				
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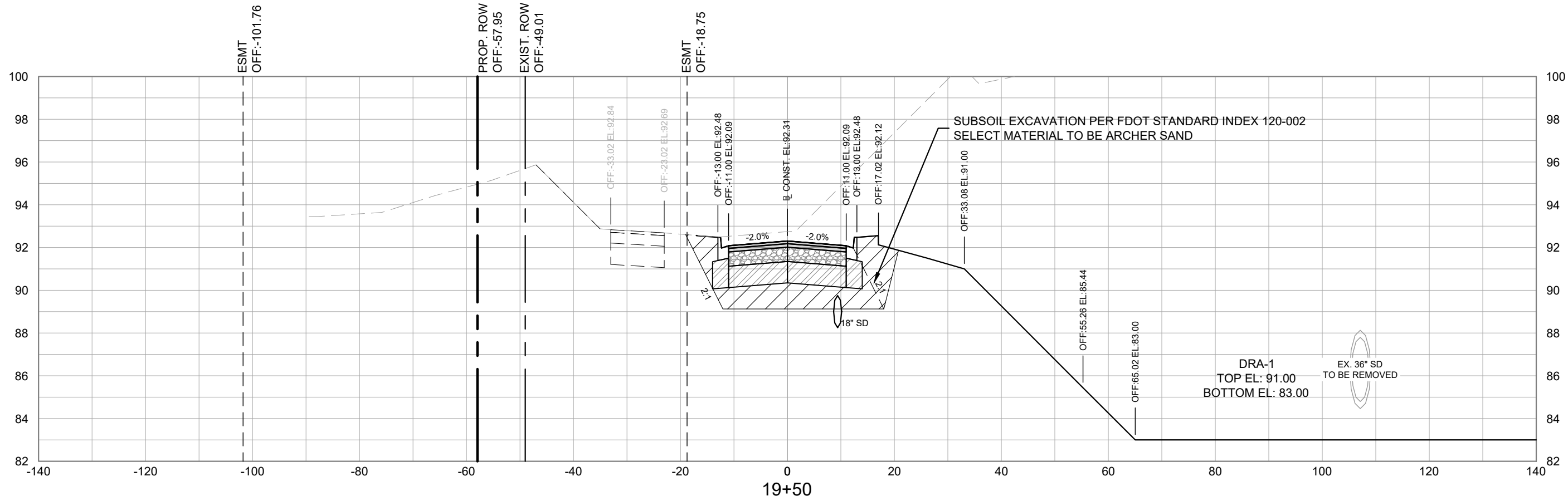
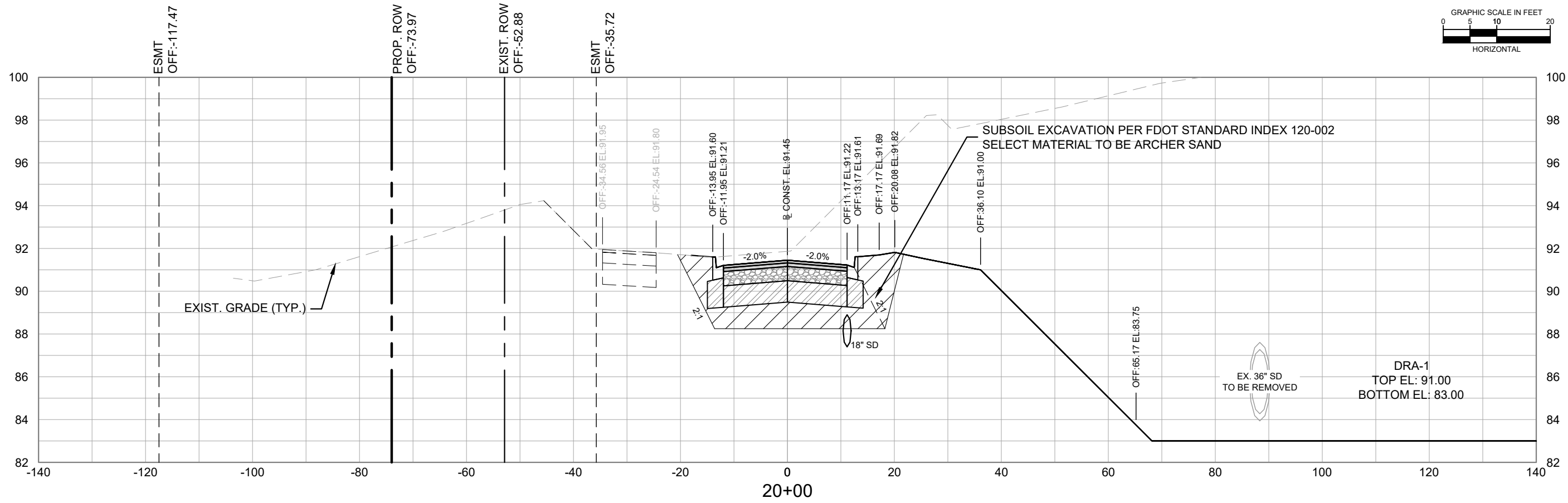
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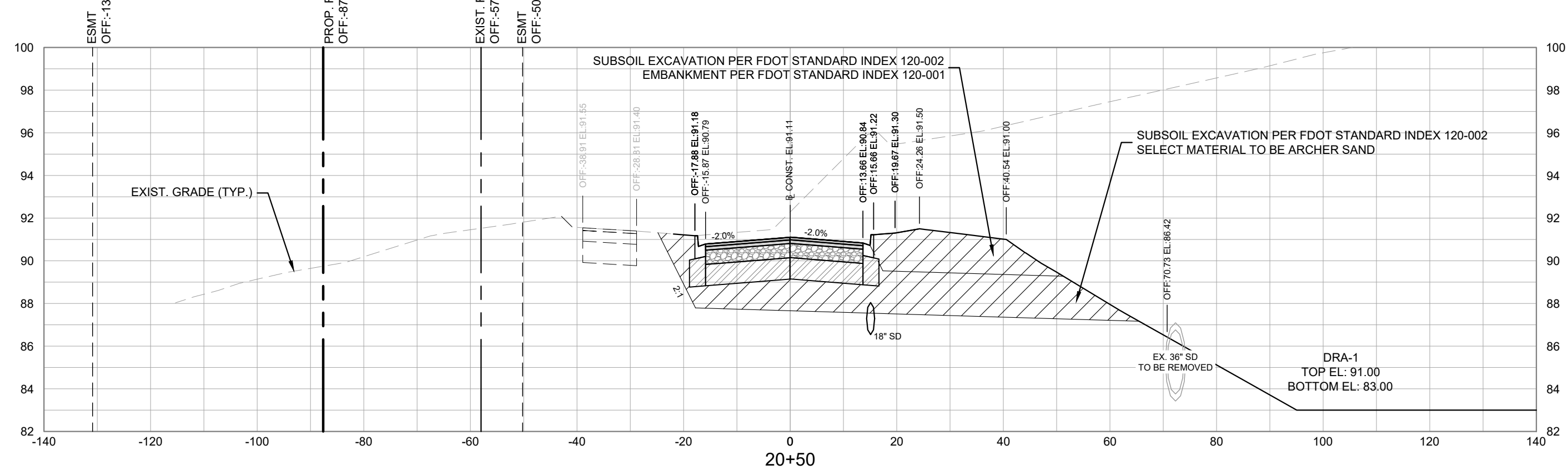
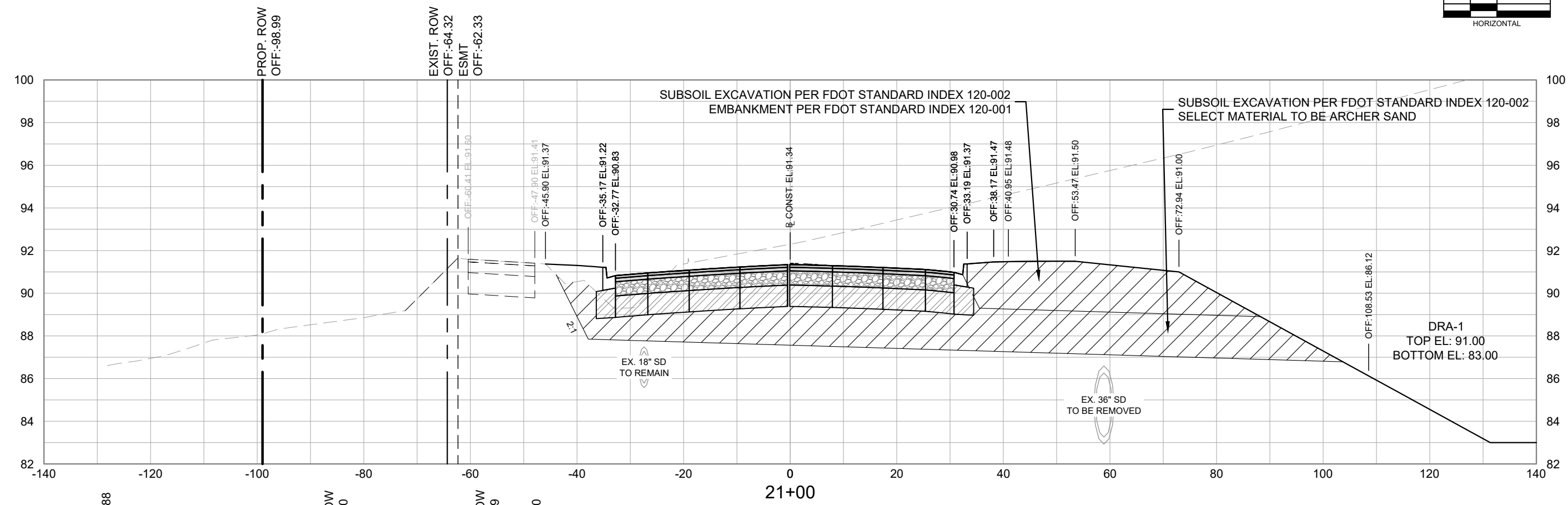
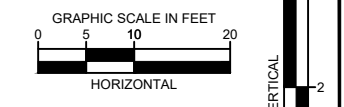
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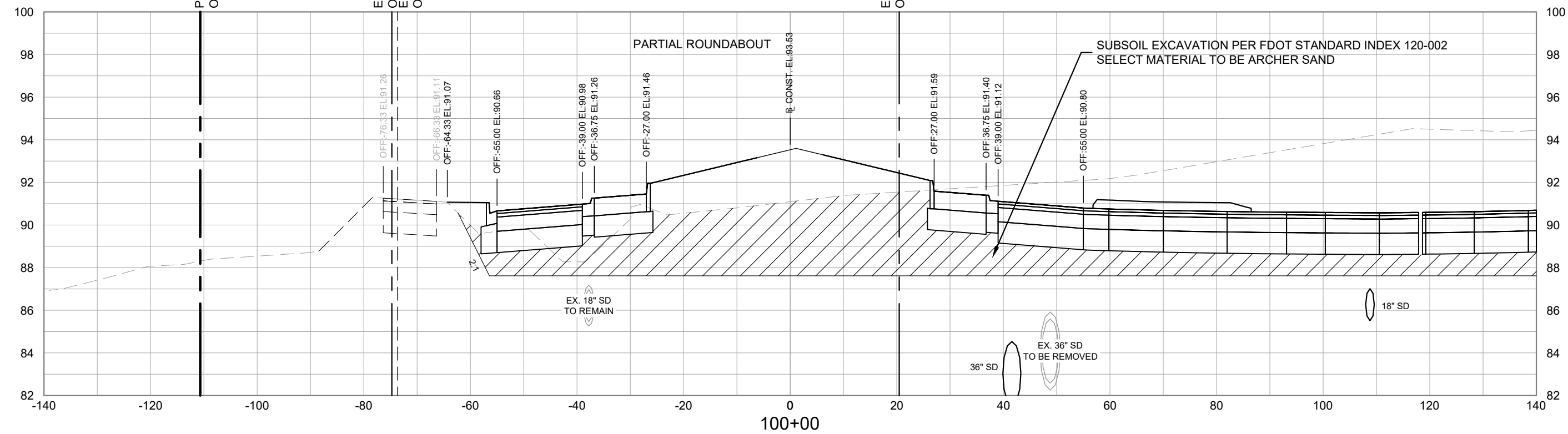
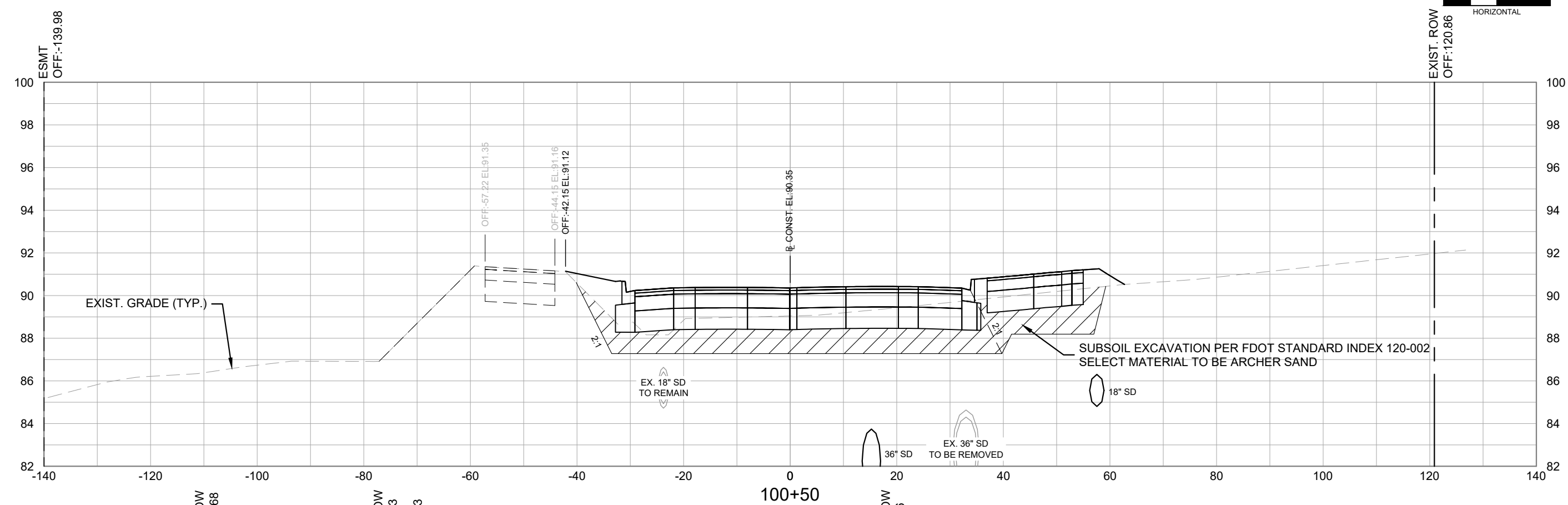
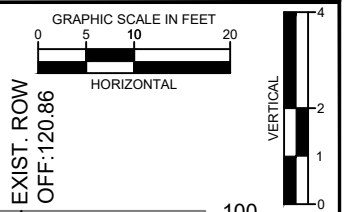


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DATE	DESCRIPTION	DESIGNED BY	CHECKED BY			ROAD NO.	COUNTY	PROJECT NO.		
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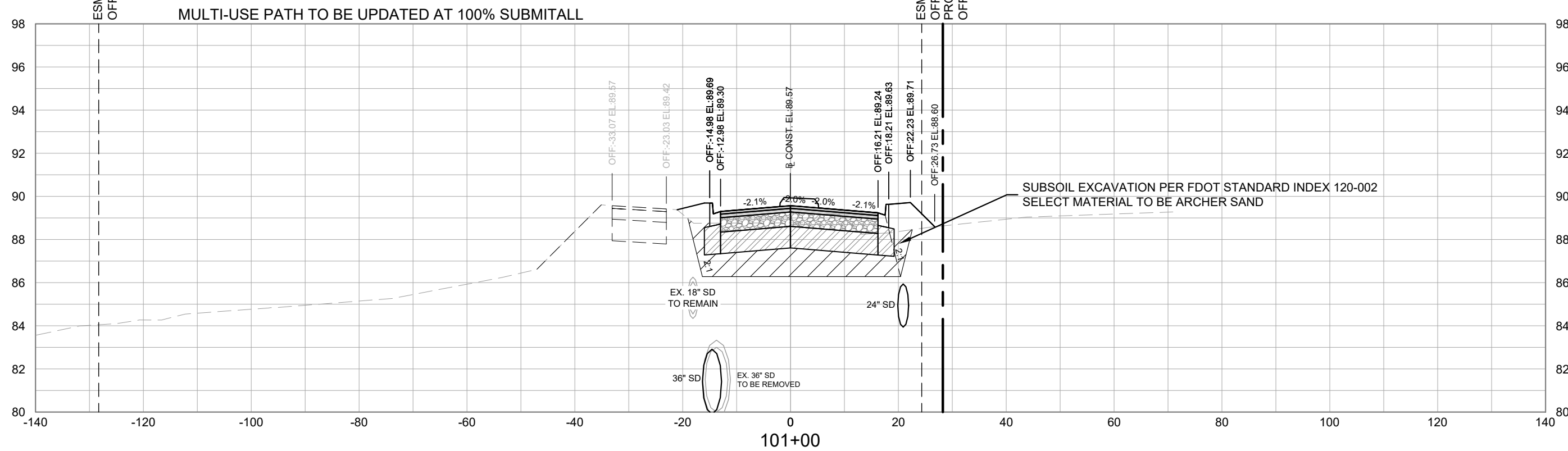
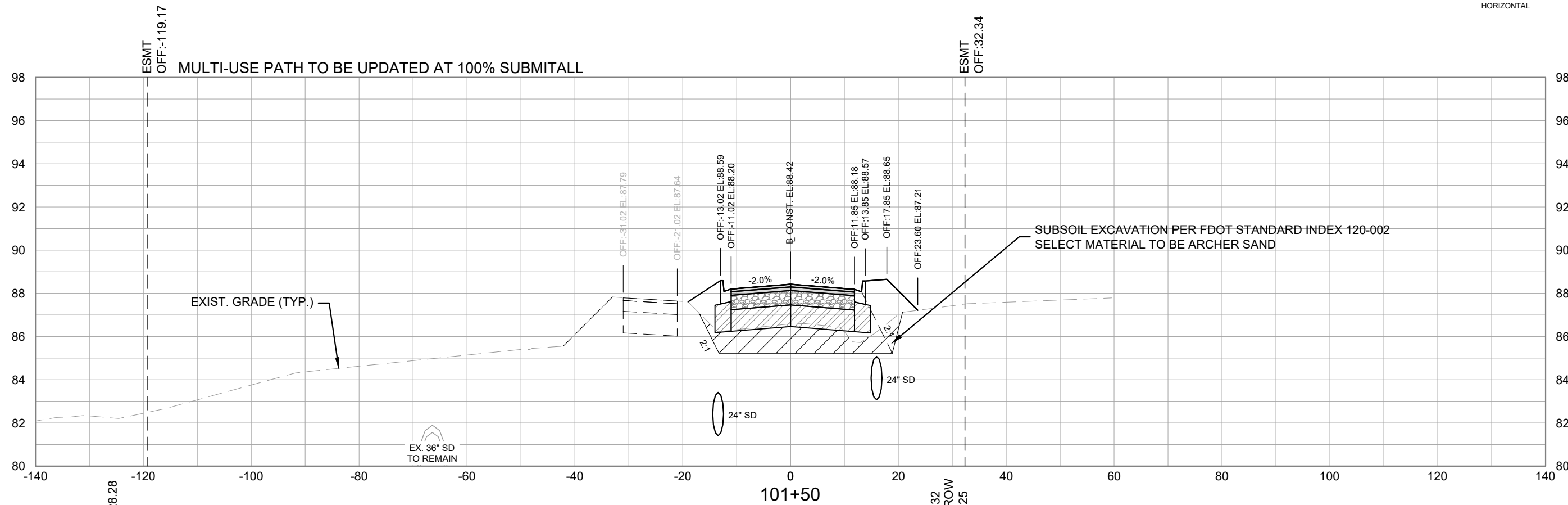
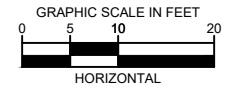
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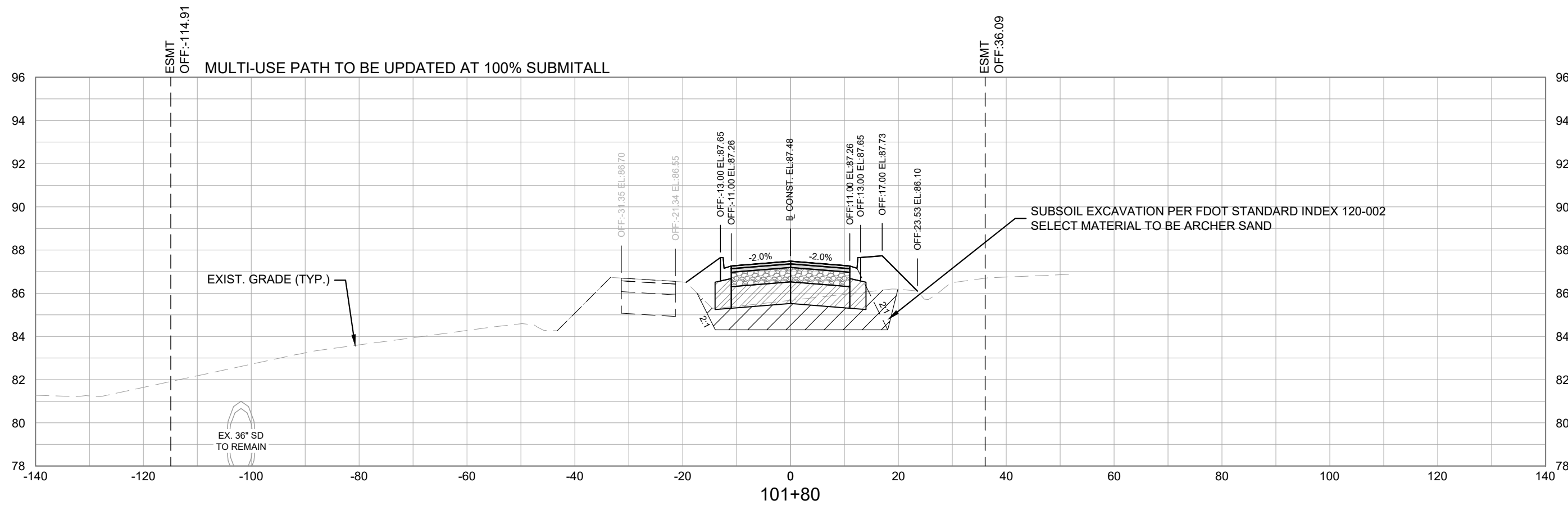
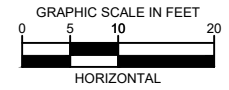
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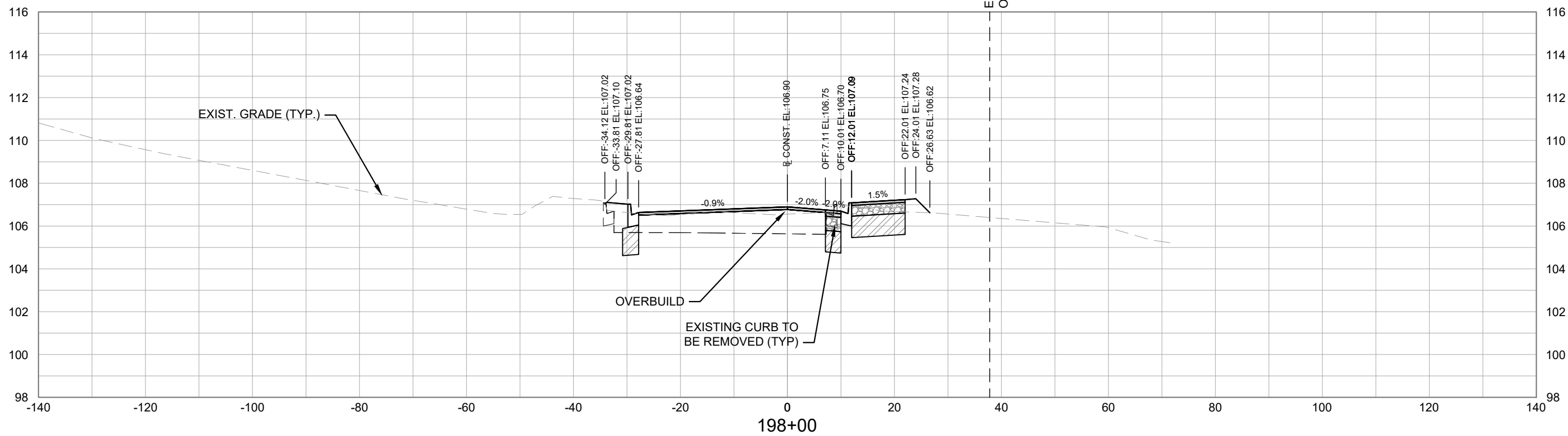
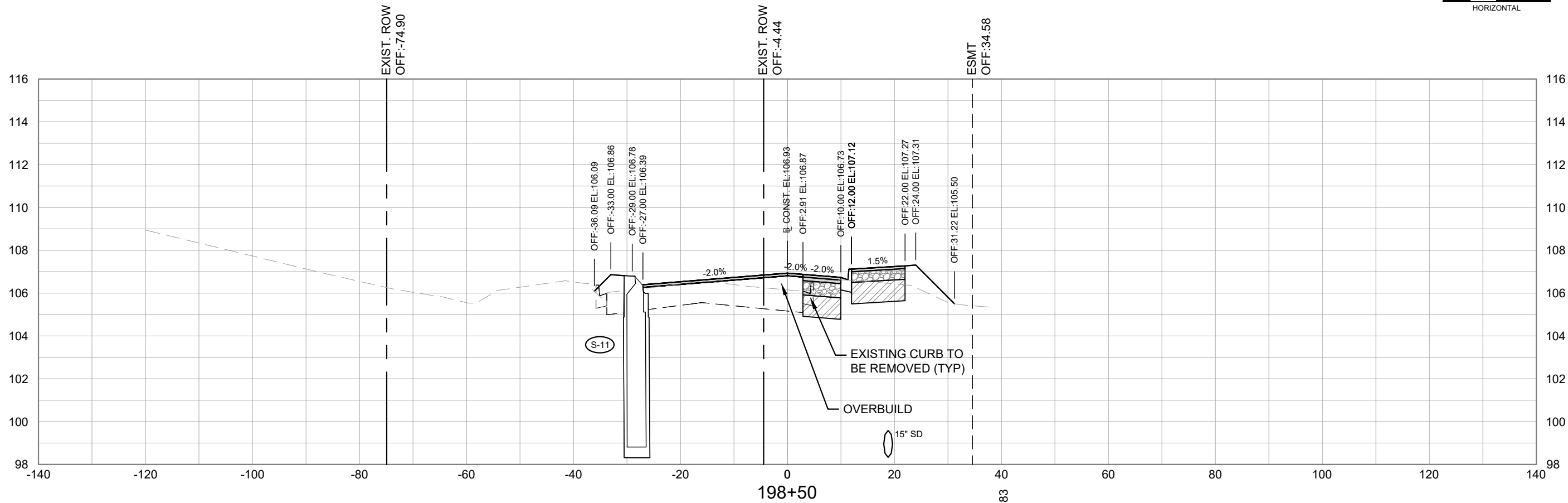
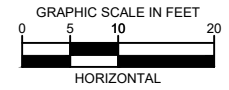
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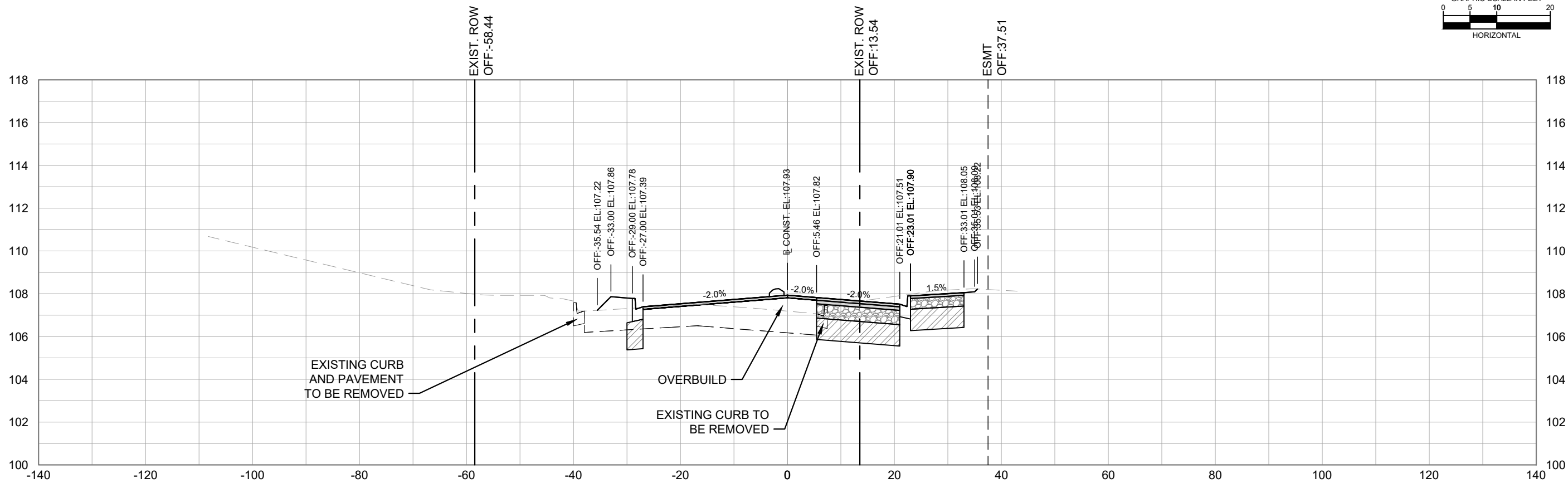
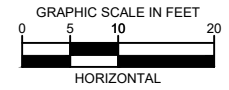
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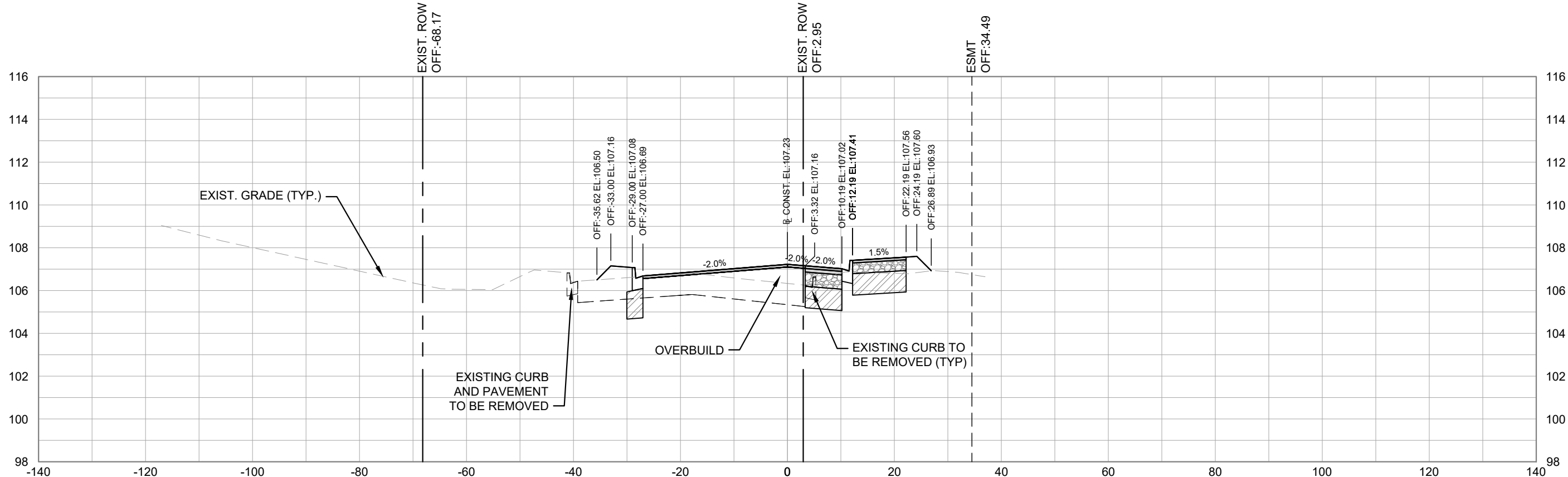


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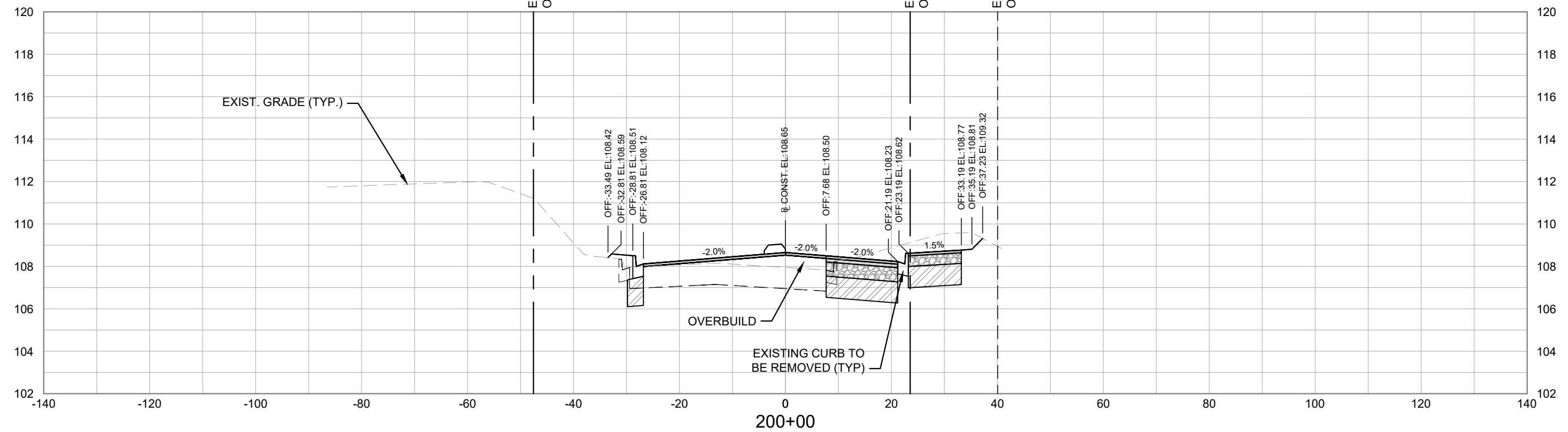
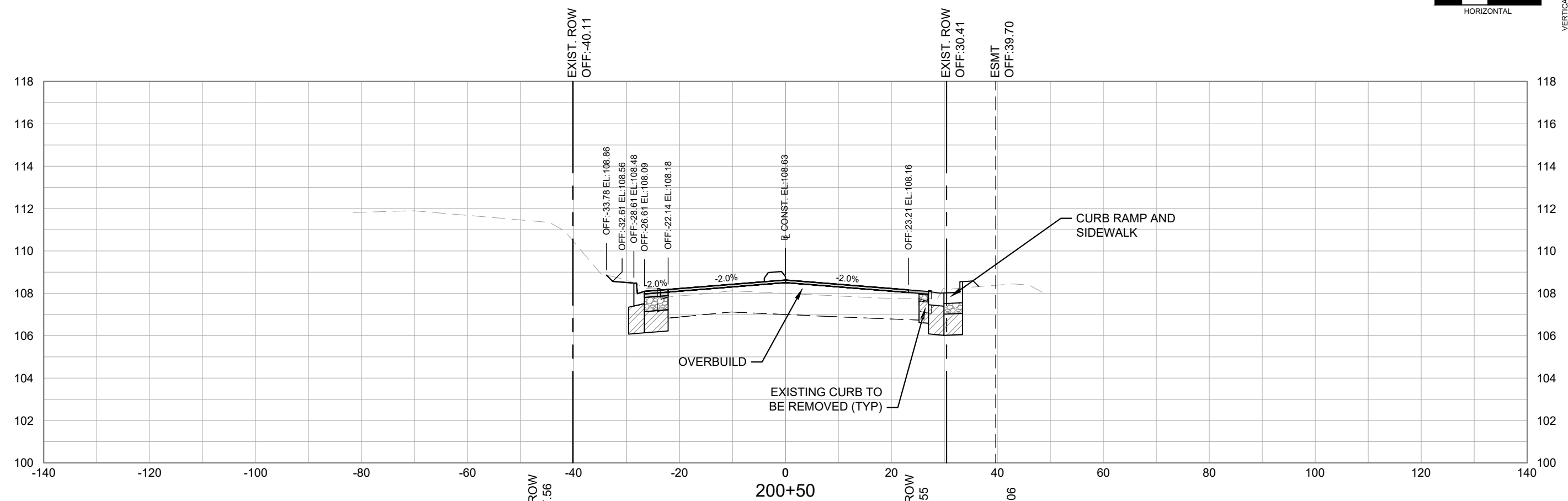
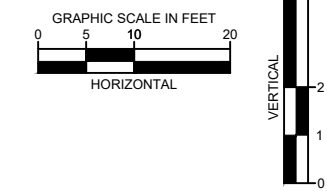
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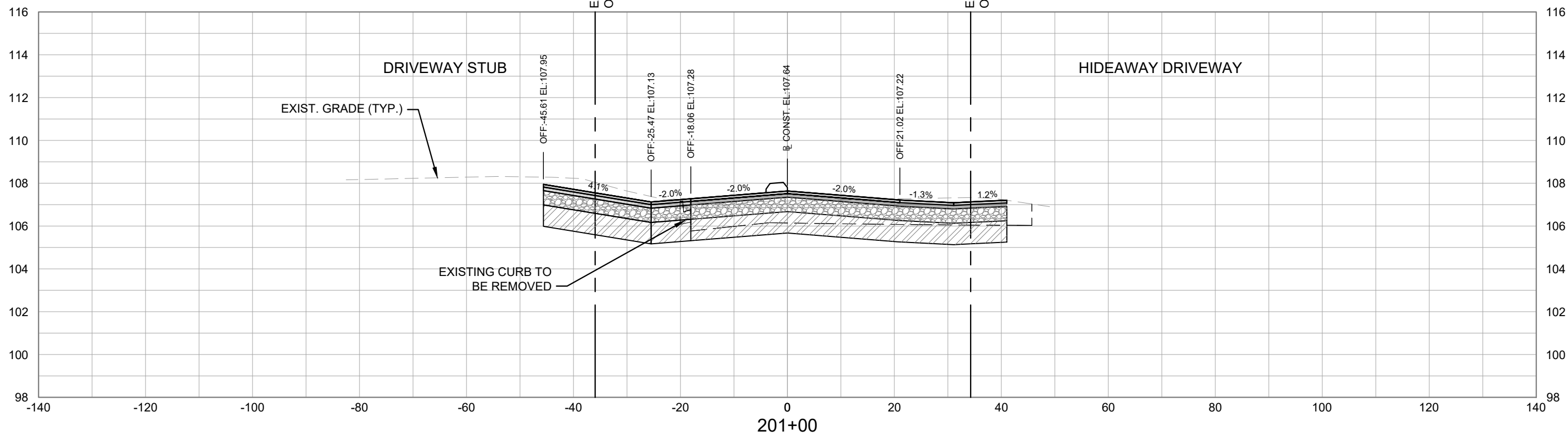
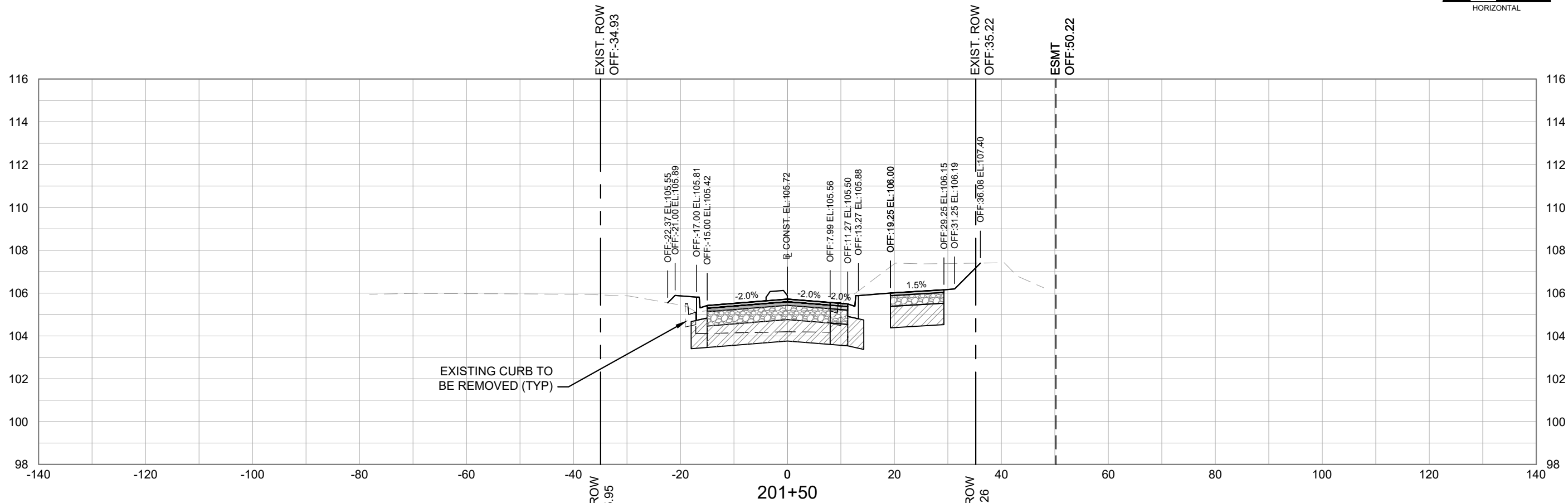
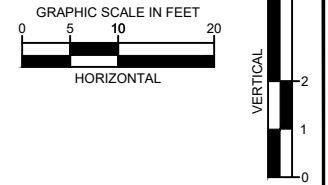
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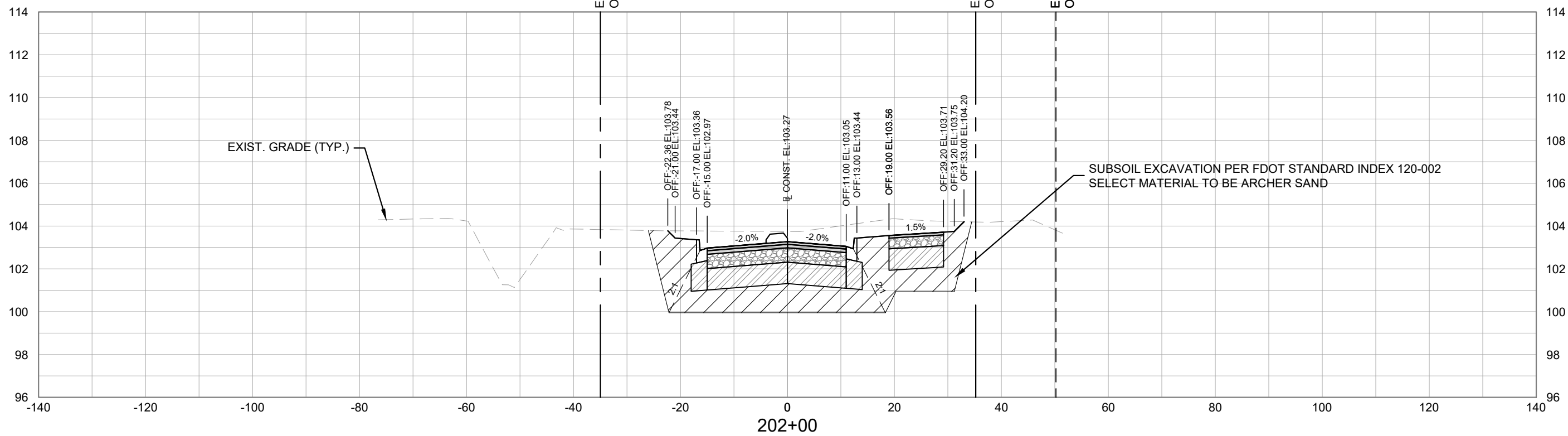
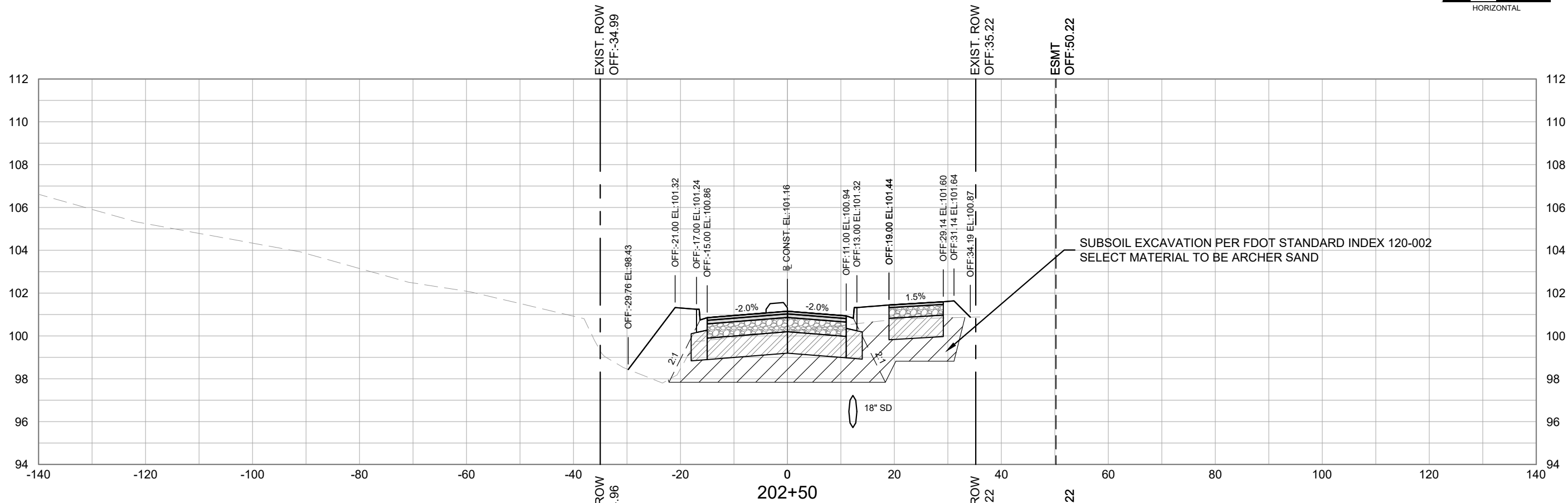
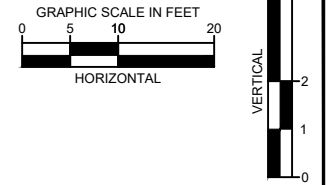
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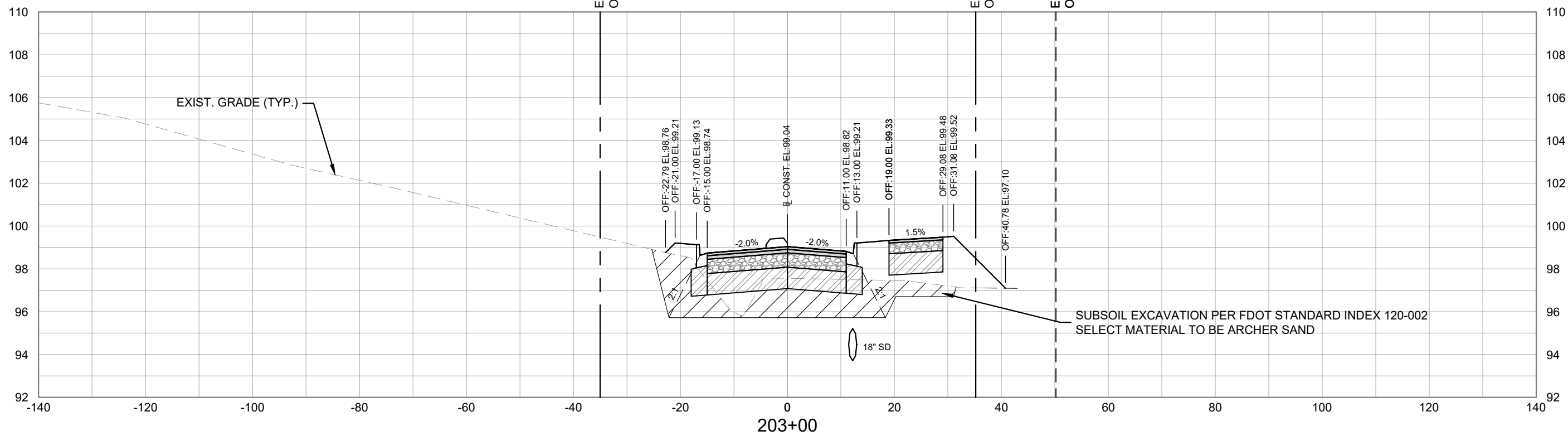
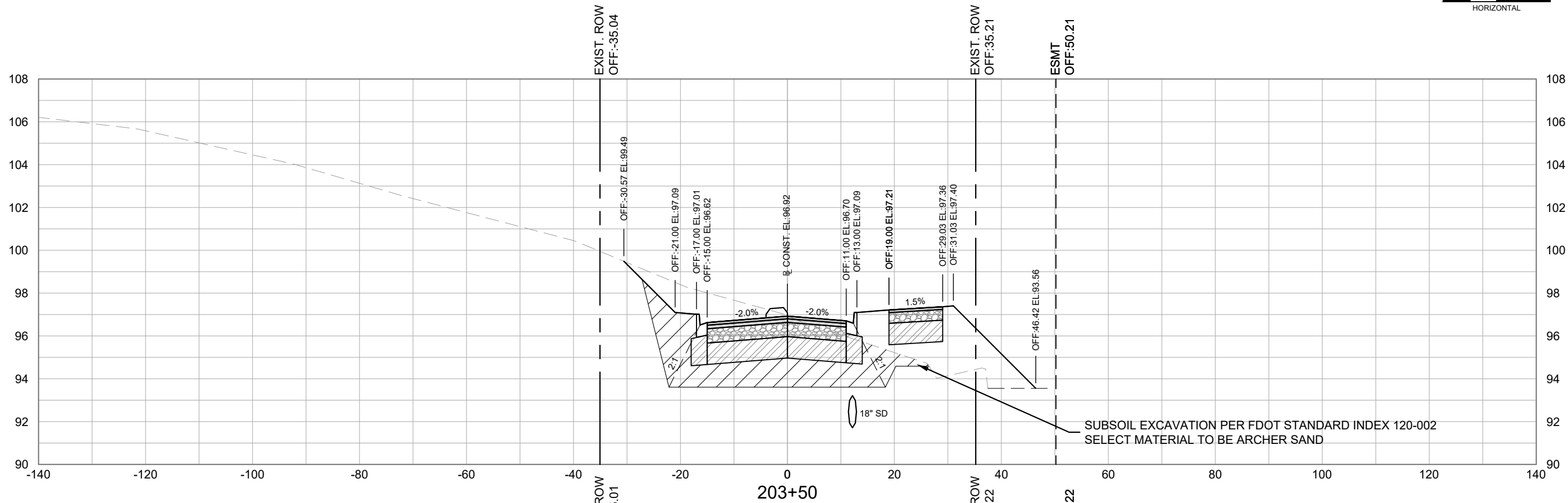
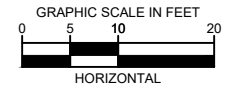
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NOT FOR CONSTRUCTION		DESIGNED BY KHA DRAWN BY KHA CHECKED BY KHA		ROAD NO. COUNTY PROJECT NO. ALACHUA 142107024					



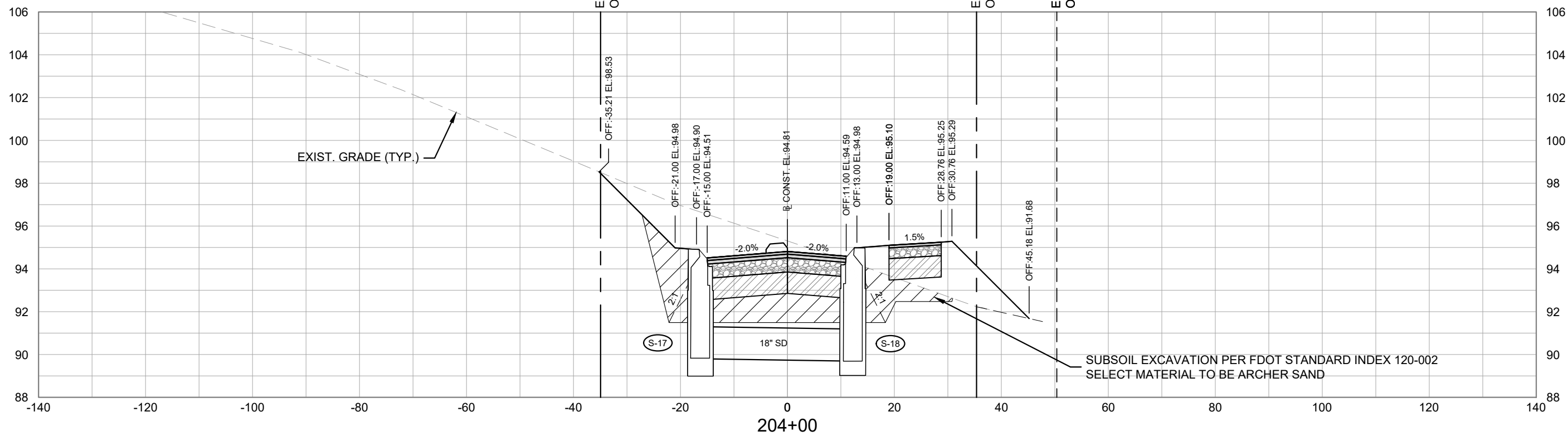
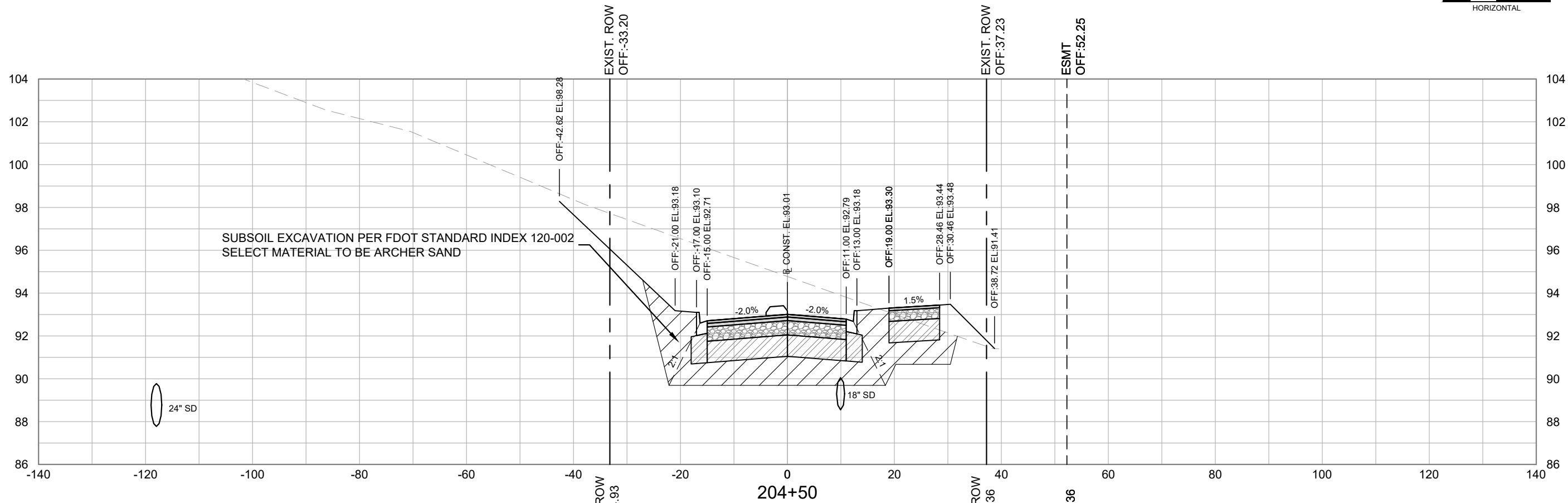
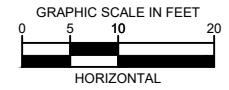
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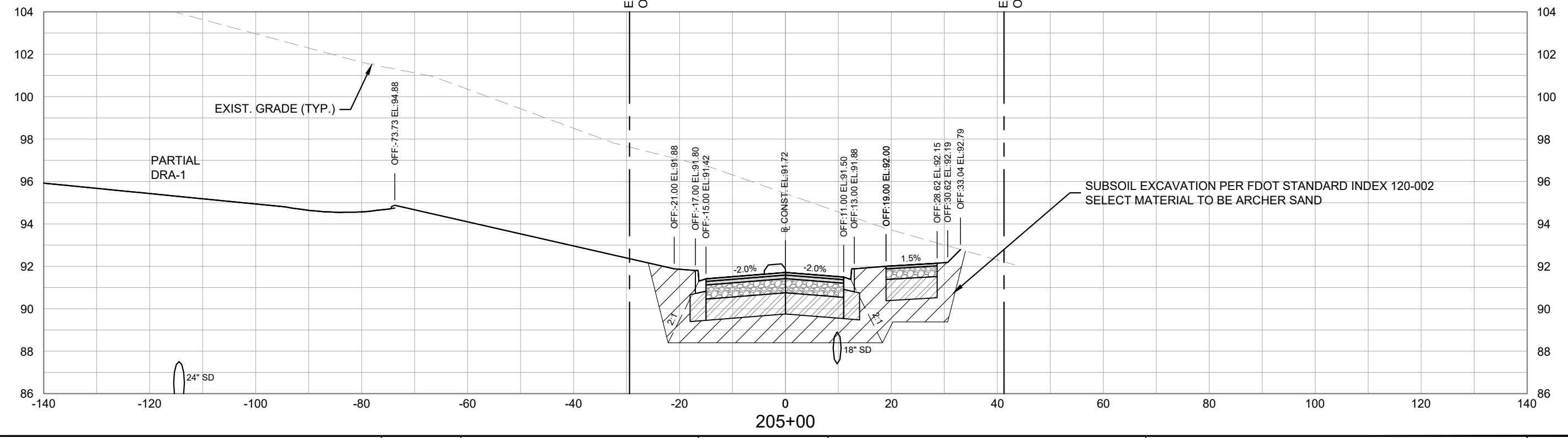
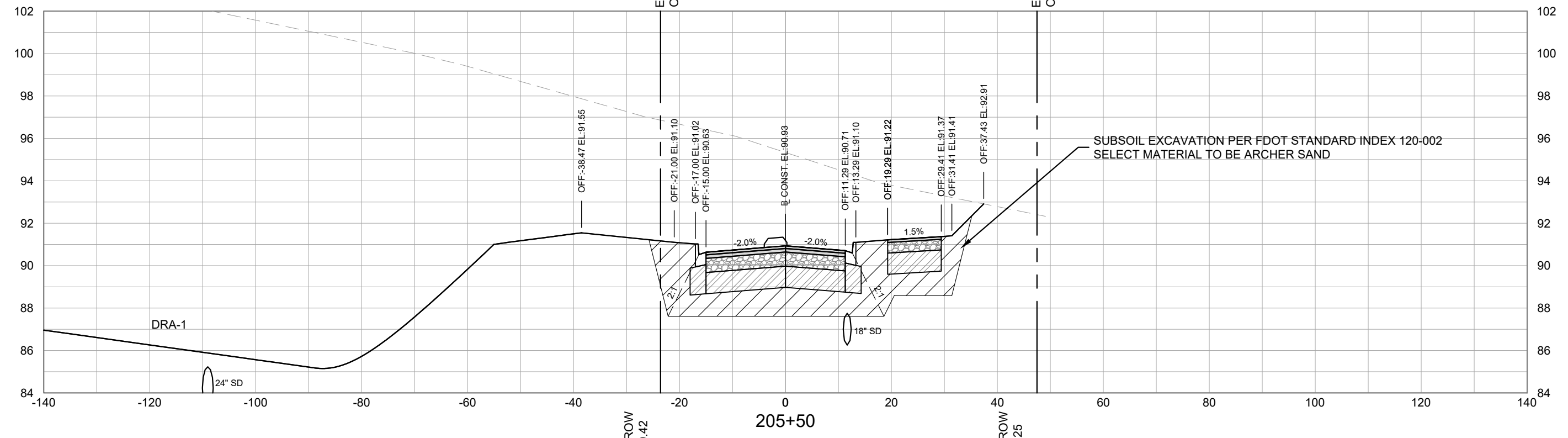
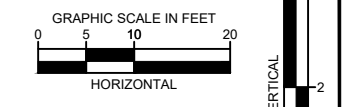
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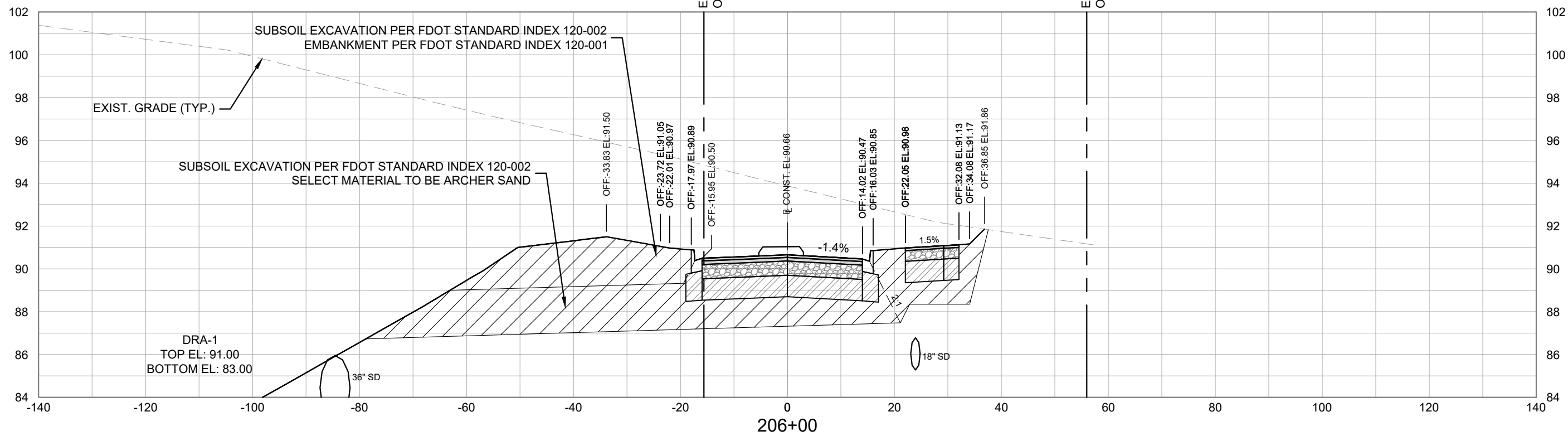
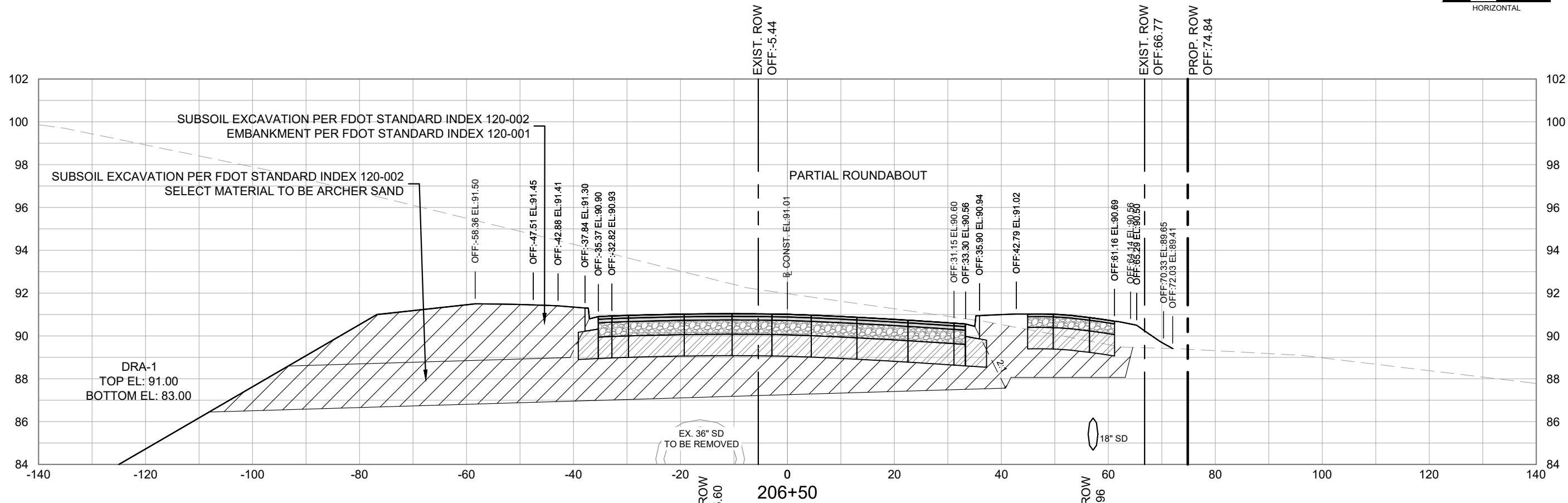
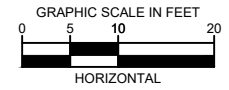
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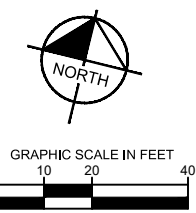
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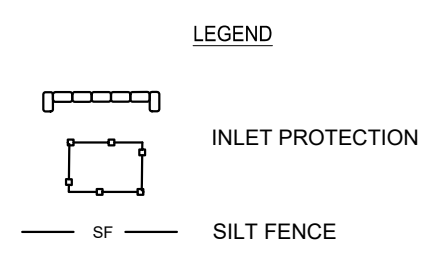
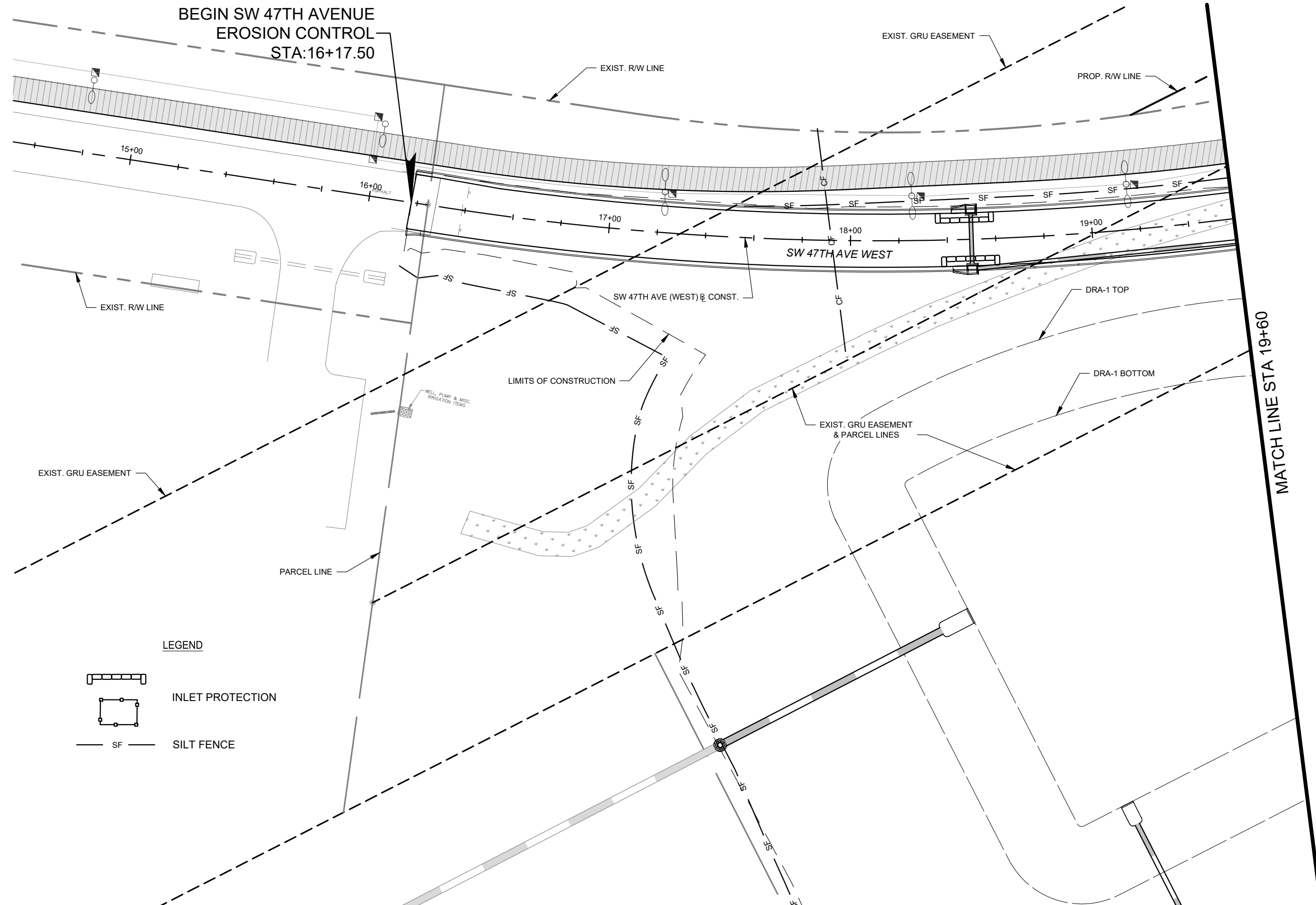


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STA: 16+17.50

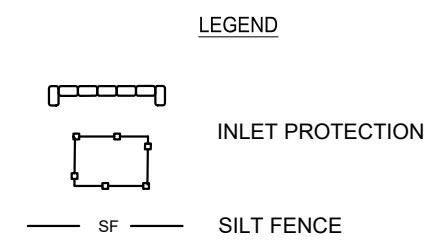
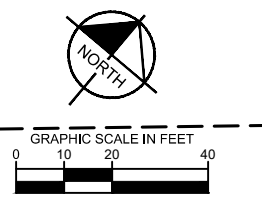
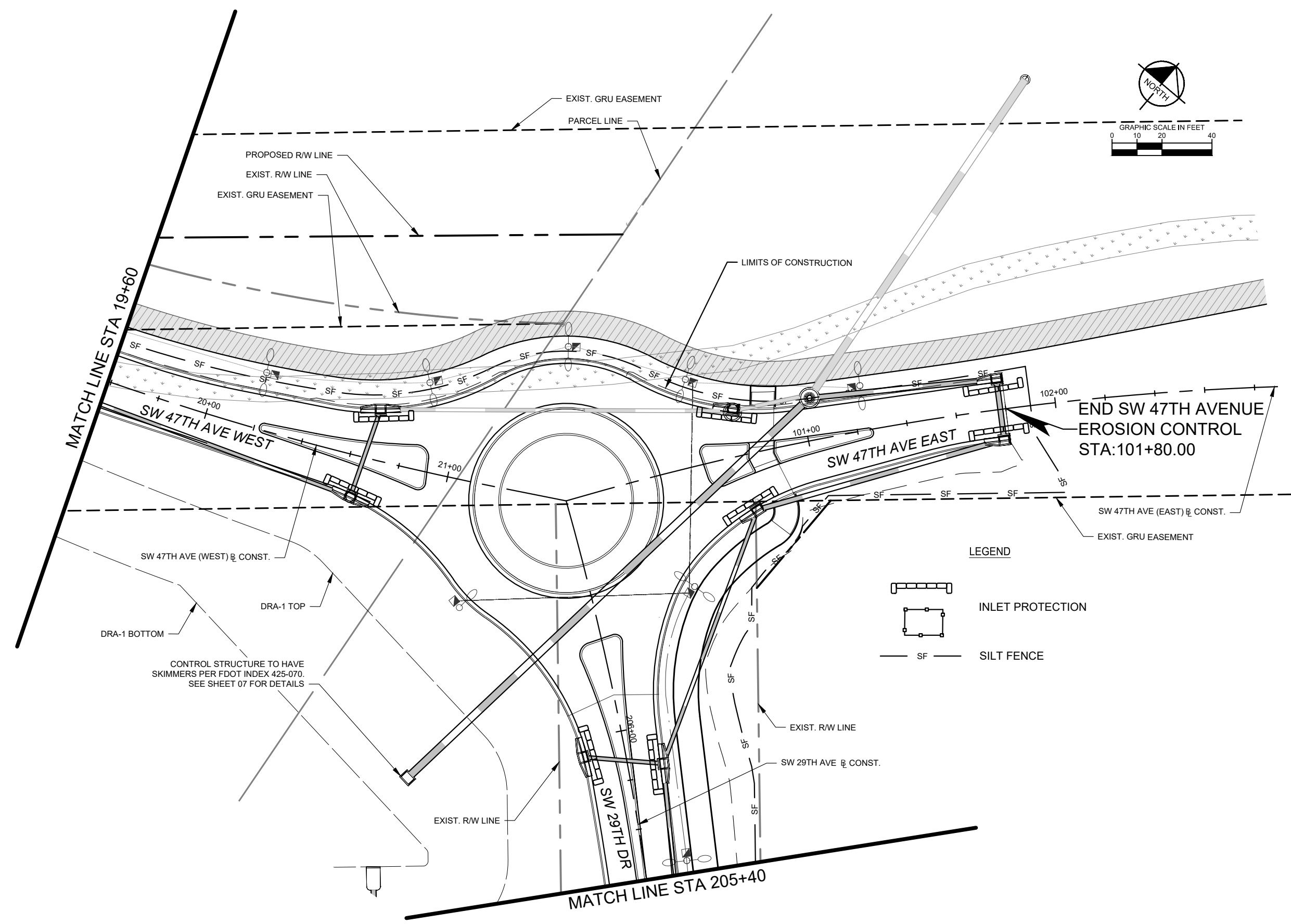


MATCH LINE STA 19+60

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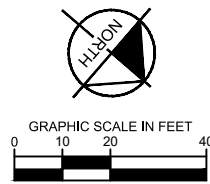
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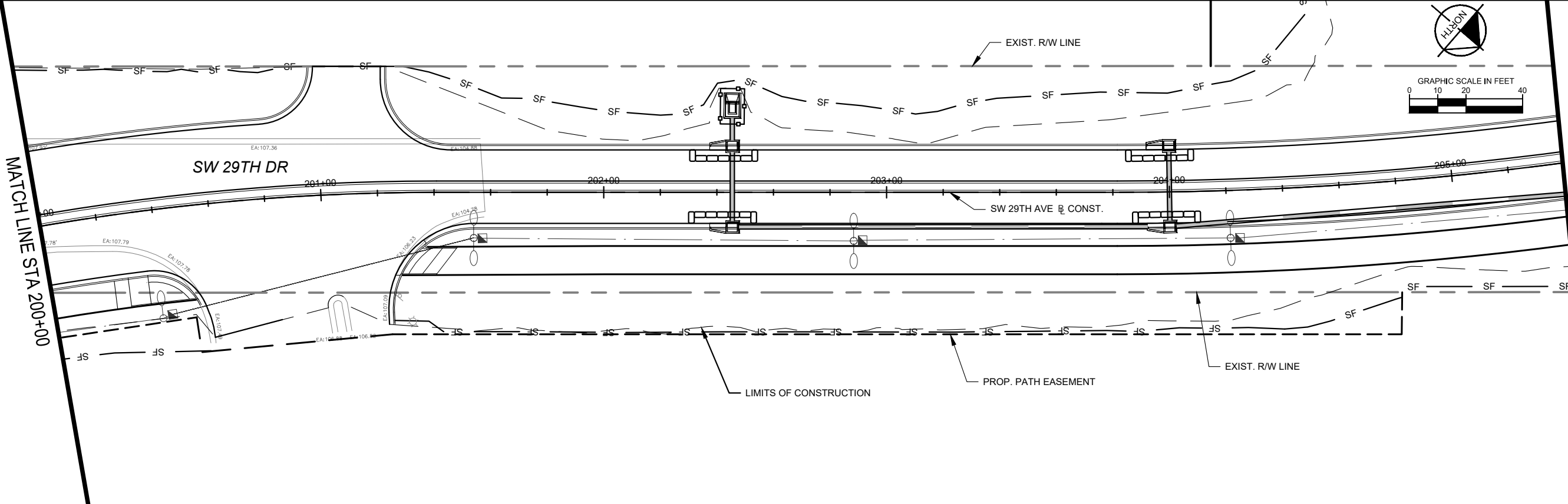
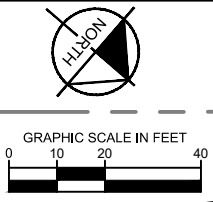
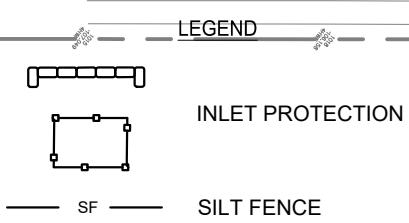
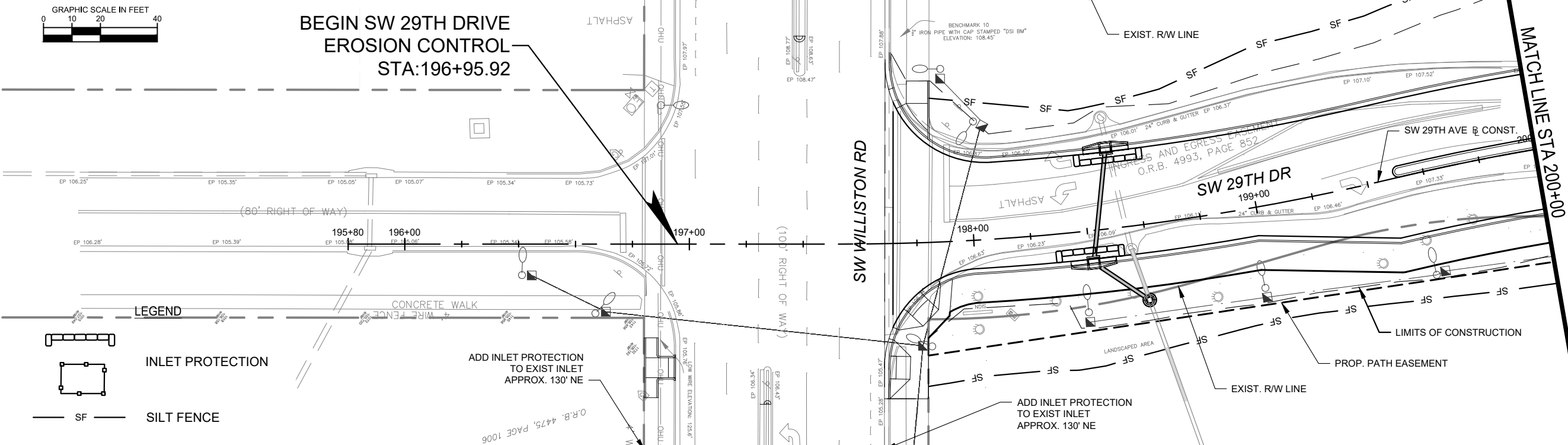
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O.R.B. 4161, PAGE 561

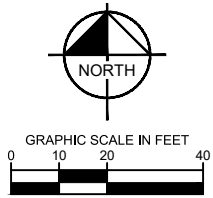
O.R.B. 4932, PAGE 2198

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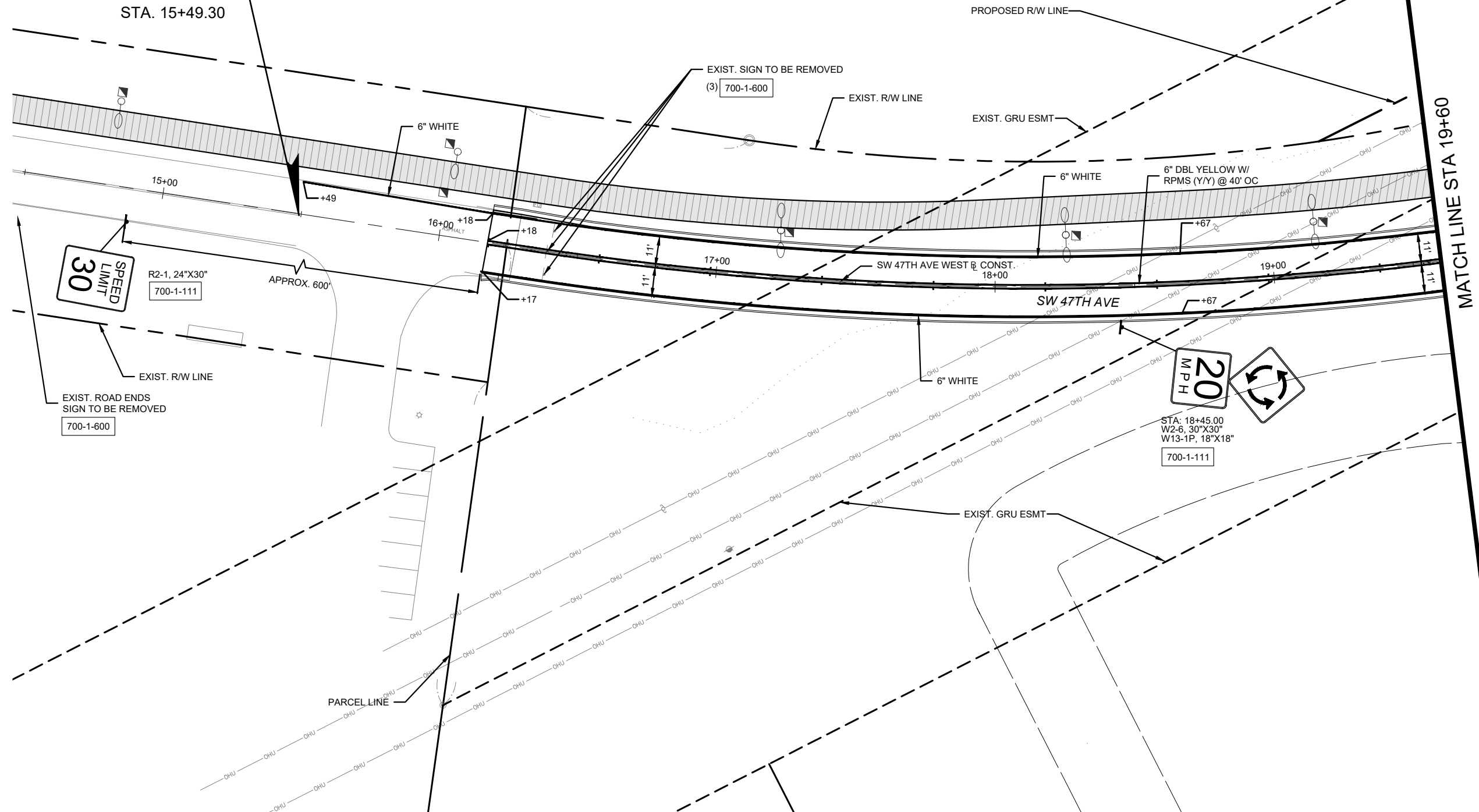


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DESIGNED BY KHA DRAWN BY KHA CHECKED BY KHA		CHRISTOPHER D. TOWNE, P.E. 66928 DATE:			ROAD NO.	COUNTY ALACHUA	PROJECT NO. 142107024		
NOT FOR CONSTRUCTION					HICKERELL, ROBERT 1/16/2025 2:18:05 PM			K:\GVL_RDWY\142107024-SW 47th Avenue Extension Design\CAD\PlanSheets\EROSION CONTROL.dwg	



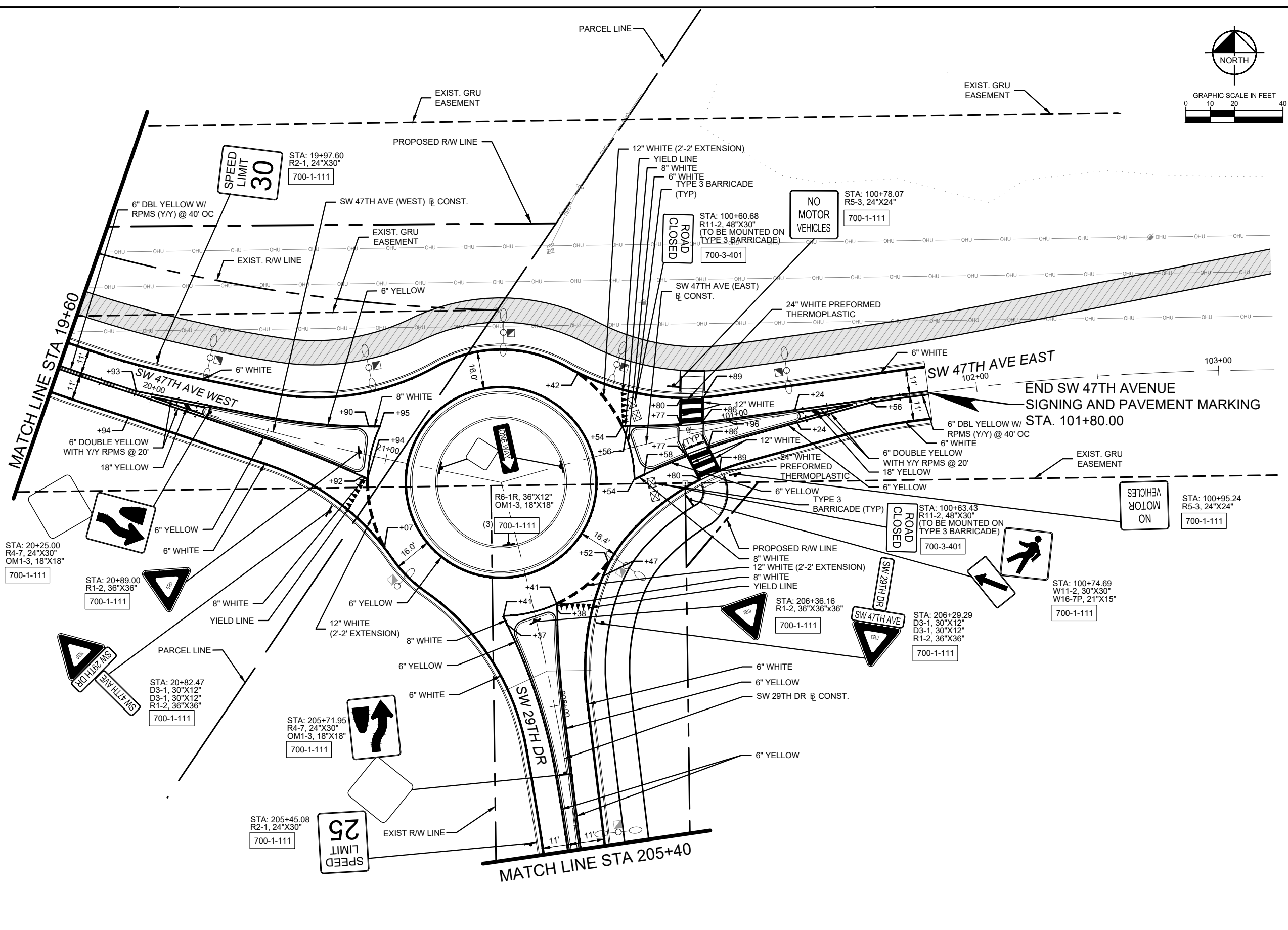
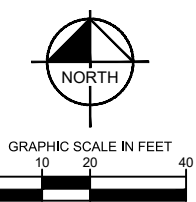
BEGIN SW 47TH AVENUE  
SIGNING AND  
PAVEMENT MARKING  
TIE TO EXIST. STRIPING  
STA. 15+49.30



MATCH LINE STA 19+60

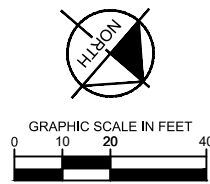
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REVISIONS		DATE		LICENSED PROFESSIONAL	CITY OF GAINESVILLE SW 47TH AVENUE EXTENSION			<b>SIGNING AND PAVEMENT MARKINGS</b>	SHEET NO.
DATE	DESCRIPTION	JANUARY 2025		CHRISTOPHER D. TOWNE, P.E.	ROAD NO.	COUNTY	PROJECT NO.		SP1
-	-		© 2025 KIMLEY-HORN AND ASSOCIATES, INC. 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601 PHONE: 352-374-3274 WWW.KIMLEY-HORN.COM REGISTRY 35106	66928		ALACHUA	142107024		
NOT FOR CONSTRUCTION				DATE:	1/16/2025 2:18:47 PM				



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REVISIONS		DATE		LICENSED PROFESSIONAL CHRISTOPHER D. TOWNE, P.E. 66928 DATE: _____	CITY OF GAINESVILLE SW 47TH AVENUE EXTENSION			SIGNING AND PAVEMENT MARKINGS	SHEET NO. <b>SP2</b>
DATE	DESCRIPTION	JANUARY 2025			ROAD NO.	COUNTY	PROJECT NO.		
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O.R.B. 4161, PAGE 561

O.R.B. 4932, PAGE 2198  
100 LF 6" WHITE WITH W/R RPMS @ 20' OC

BEGIN SW 29TH DRIVE  
SIGNING AND PAVEMENT MARKING  
STA. 196+96.72

WHITE HELMETED BICYCLIST SYMBOL WITH BIKE LANE ARROW (TYP.)

REMOVE ALL CONFLICTING PAVEMENT MARKINGS (TYP.)

MD/Y RPMS AND DURABLE YELLOW PAINT ON NOSE OF TRAFFIC SEPARATOR PER FDOT INDEX 706-001

6" DOUBLE YELLOW WITH Y/Y RPMS @ 40' OC

DIRECTIONAL ARROW (TYP.)  
6" WHITE WITH W/R RPMS @ 20' OC

6" WHITE WITH Y/R RPMS @ 20' OC

6" DOUBLE YELLOW WITH Y/Y RPMS @ 40' OC

24" WHITE

18" YELLOW

12" WHITE

8" WHITE

6" WHITE

18" WHITE AT 10' OC

100 LF 6" WHITE WITH W/R RPMS @ 20' OC

6" WHITE

18" YELLOW @ 20 O.C.

6" WHITE WITH W/R RPMS @ 20' OC

6" WHITE

18" WHITE AT 10' OC

6" WHITE

18" WHITE AT 10' OC

6" WHITE

18" WHITE AT 10' OC

6" WHITE

18" WHITE AT 10' OC

6" WHITE

18" WHITE AT 10' OC

6" WHITE

18" WHITE AT 10' OC

6" WHITE

18" WHITE AT 10' OC

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6" WHITE

18" WHITE AT 10' OC

6" WHITE

18" WHITE AT 10' OC

6" WHITE

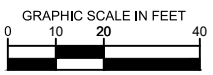
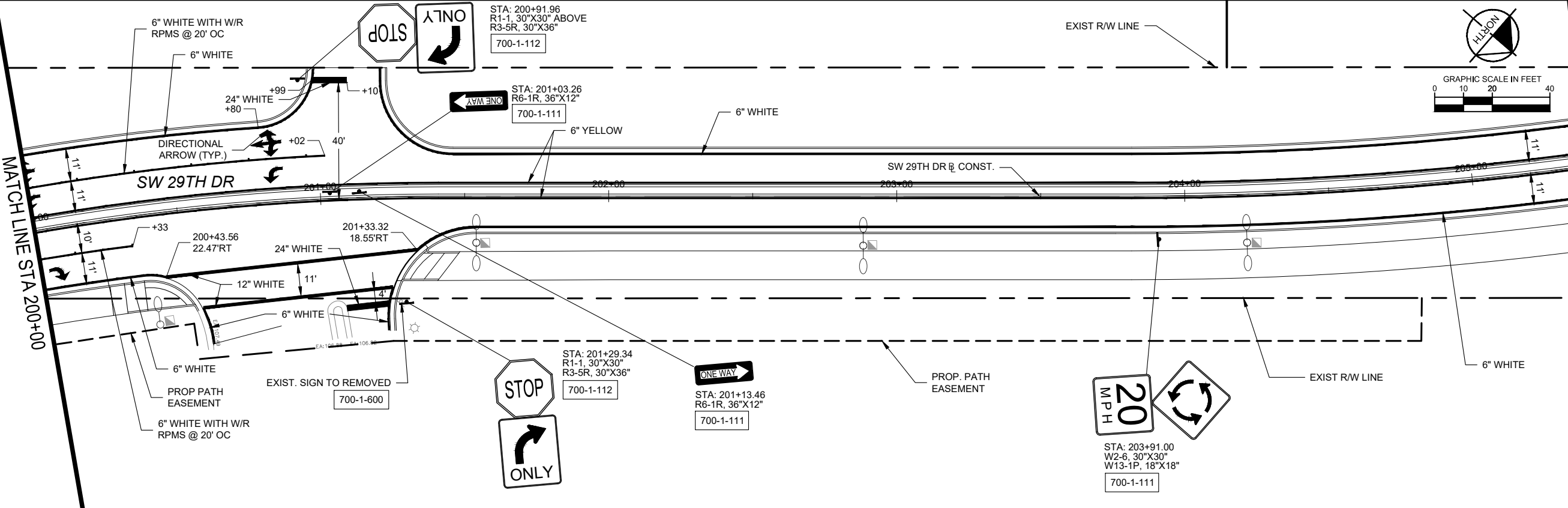
NOTE:  
FULL INTERSECTION SIGNING AND MARKING PLANS TO BE COMPLETED WITH 100% SUBMITTAL.

STOP SIGNS TO BE REMOVED ONCE SIGNAL IS OPERATIONAL  
700-1-600

MD/Y RPMS AND DURABLE YELLOW PAINT ON NOSE OF TRAFFIC SEPARATOR PER FDOT INDEX 706-001

SPEED LIMIT 25

STA: 199+58.00  
R2-1, 30"X30"  
700-1-111



REVISIONS	
DATE	DESCRIPTION
-	NOT FOR CONSTRUCTION

DATE	DESCRIPTION
JANUARY 2025	DESIGNED BY KHA
	DRAWN BY KHA
	CHECKED BY KHA

**Kimley»Horn**  
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PHONE: 352-374-3274  
WWW.KIMLEY-HORN.COM REGISTRY 35106

LICENSED PROFESSIONAL  
CHRISTOPHER D. TOWNE,  
P.E.  
66928  
DATE: \_\_\_\_\_

CITY OF GAINESVILLE SW 47TH AVENUE EXTENSION		
ROAD NO.	COUNTY	PROJECT NO.
	ALACHUA	142107024








**SIGNING AND PAVEMENT MARKINGS**

SHEET NO. <b>SP3</b>
-------------------------

POLE DATA

POLE NO.	CIRCUIT	CL ALIGNMENT	STATION	OFFSET	LUMINAIRE WATTAGE	MOUNTING HEIGHT	ARM TYPE	ARM LENGTH	IES FILE	POLE SETBACK (SEE NOTE 2)	PAY ITEM
01	by GRU	SW 47TH AVE (WEST)	9+29.50	42.25 LT	111	40	SINGLE	10	ERLH_13C330	15.2'	715-61-321
02	by GRU	SW 47TH AVE (WEST)	10+31.50	44.50 LT	111	40	SINGLE	10	ERLH_13C330	16.9'	715-61-321
03	by GRU	SW 47TH AVE (WEST)	11+27.75	44.50 LT	111	40	SINGLE	10	ERLH_13C330	16.5'	715-61-321
04	by GRU	SW 47TH AVE (WEST)	12+45.50	45.00 LT	111	40	SINGLE	10	ERLH_13C330	16.7'	715-61-321
05	by GRU	SW 47TH AVE (WEST)	13+58.00	30.50 LT	111	40	SINGLE	10	ERLH_13C330	13.7'	715-61-321
06	by GRU	SW 47TH AVE (WEST)	14+80.25	30.25 LT	111	40	SINGLE	10	ERLH_13C330	13.4'	715-61-321
07	by GRU	SW 47TH AVE (WEST)	16+02.00	30.50 LT	111	40	SINGLE	10	ERLH_13C330	13.6'	715-61-321
08	by GRU	SW 47TH AVE (WEST)	17+22.00	17.00 LT	111	40	DOUBLE	10 / 4	ERLH_13C330	4.0'	715-63-321
09	by GRU	SW 47TH AVE (WEST)	18+25.50	18.50 LT	111	40	DOUBLE	10 / 4	ERLH_13C330	5.3'	715-63-321
10	by GRU	SW 47TH AVE (WEST)	19+15.75	19.00 LT	111	40	DOUBLE	10 / 4	ERLH_13C330	5.7'	715-63-321
11	by GRU	SW 47TH AVE (WEST)	20+18.75	22.75 LT	111	40	DOUBLE	10 / 4	ERLH_13C330	6.9'	715-63-321
12	by GRU	SW 47TH AVE (WEST)	20+84.50	35.25 LT	111	40	DOUBLE	10 / 4	ERLH_13C330	7.4'	715-63-321
13	by GRU	SW 47TH AVE (WEST)	21+37.25	60.75 LT	111	40	DOUBLE	10 / 4	ERLH_13C330	4.6'	715-63-321
14	by GRU	SW 47TH AVE (EAST)	100+57.75	34.75 LT	111	40	DOUBLE	10 / 4	ERLH_13C330	6.7'	715-63-321
15	by GRU	SW 47TH AVE (EAST)	101+24.25	18.25 LT	111	40	DOUBLE	10 / 4	ERLH_13C330	6.9'	715-63-321
16	by GRU	SW 29TH DR	196+41.25	11.00 RT	111	40	SINGLE	10	ERLH_13C330	7.8'	715-61-321
17	by GRU	SW 29TH DR	196+66.75	24.50 RT	111	40	SINGLE	10	ERLH_13C330	20.0'	715-61-321
18	by GRU	SW 29TH DR	197+84.00	36.50 RT	111	40	SINGLE	10	ERLH_13C330	12.9'	715-61-321
19	by GRU	SW 29TH DR	197+91.00	60.75 LT	111	40	SINGLE	10	ERLH_13C330	17.0'	715-61-321
20	by GRU	SW 29TH DR	198+02.50	41.50 LT	111	40	SINGLE	10	ERLH_13C330	11.7'	715-61-321
21	by GRU	SW 29TH DR	198+37.75	28.50 RT	111	40	SINGLE	10	ERLH_13C330	16.2'	715-61-321
22	by GRU	SW 29TH DR	198+98.25	28.50 RT	111	40	SINGLE	10	ERLH_13C330	16.2'	715-61-321
23	by GRU	SW 29TH DR	199+56.50	36.50 RT	111	40	SINGLE	10	ERLH_13C330	12.9'	715-61-321
24	by GRU	SW 29TH DR	200+39.25	38.50 RT	111	40	SINGLE	10	ERLH_13C330	13.4'	715-61-321
25	by GRU	SW 29TH DR	201+54.00	16.50 RT	111	40	DOUBLE	10 / 4	ERLH_13C330	4.0'	715-63-321
26	by GRU	SW 29TH DR	202+88.50	17.50 RT	111	40	DOUBLE	10 / 4	ERLH_13C330	4.2'	715-63-321
27	by GRU	SW 29TH DR	204+21.00	17.00 RT	111	40	DOUBLE	10 / 4	ERLH_13C330	4.0'	715-63-321
28	by GRU	SW 29TH DR	205+44.75	17.00 RT	111	40	DOUBLE	10 / 4	ERLH_13C330	4.0'	715-63-321
29	by GRU	SW 29TH DR	206+49.50	41.25 RT	111	40	DOUBLE	10 / 4	ERLH_13C330	4.2'	715-63-321
30	by GRU	SW 29TH DR	206+64.00	52.50 LT	111	40	SINGLE	10 / 4	ERLH_13C330	4.0'	715-61-321
31	by GRU	SW 29TH DR	196+90.16	95.91 LT	111	40	SINGLE	10	ERLH_13C330	4.0'	715-5-31
32	by GRU	SW 29TH DR	197+72.25	114.25 RT	111	40	SINGLE	10	ERLH_13C330	4.0'	715-61-321
EX-01	EXIST.	SW 29TH DR	196+89.67	121.70 RT	111	40	SINGLE	10	EXIST.	EXIST.	EXIST.
EX-02	EXIST.	SW 29TH DR	196+89.78	48.58 LT	111	40	SINGLE	10	EXIST.	EXIST.	EXIST.

LEGEND

SYMBOL	DESCRIPTION
	PROPOSED LIGHT POLE WITH COBRAHEAD LUMINAIRE, GE EVOLVE LED ROADWAY STREETLIGHT, ERLH 111 WATT, TYPE III DISTRIBUTION ERLH_13C330.IES
	PROPOSED LIGHT POLE WITH DOUBLE ARM COBRAHEAD LUMINAIRES, GE EVOLVE LED ROADWAY STREETLIGHT, ERLH 111 WATT, TYPE III DISTRIBUTION, 10' ARM AND 4' ARM ERLH_13C330.IES
	2.5" DIRECT BURIED CONDUIT
	2.5" DIRECTIONALLY DRILLED CONDUIT
	PROPOSED LOCATION OF 13" X 24" LIGHTING PULL BOX
	EXISTING CONDUIT INSTALLED WITH SW 47TH AVE TRAIL PROJECT
	EXISTING PULL BOX INSTALLED WITH SW 47TH AVE TRAIL PROJECT


**FDOT NEW CONSTRUCTION SIGNALIZED INTERSECTION AND ROUNDABOUT CRITERIA**  
 AVERAGE INITIAL INTENSITY: 3.0 STD./1.5 MIN. H.F.C.  
 1.5 STD. / 1.2 MIN. V.F.C.  
 UNIFORMITY RATIO AVG./MIN.: 4:1 OR LESS\*\*  
 UNIFORMITY RATIO MAX./MIN.: 10:1 OR LESS\*\*  
 DESIGN WIND SPEED: 120 MPH

**CITY OF GAINESVILLE CORRIDOR LIGHTING CRITERIA**  
 AVERAGE INITIAL INTENSITY: 1.2 H.F.C.  
 UNIFORMITY RATIO AVG./MIN.: 3:1 OR LESS\*\*  
 UNIFORMITY RATIO MAX./MIN.: N/A

**CITY OF GAINESVILLE PEDESTRIAN AREA LIGHTING CRITERIA**  
 AVERAGE INITIAL INTENSITY: 2.0 H.F.C.  
 UNIFORMITY RATIO AVG./MIN.: 4:1 OR LESS\*\*  
 UNIFORMITY RATIO MAX./MIN.: 10:1 OR LESS\*\*

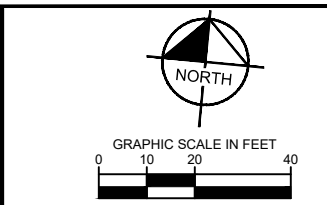
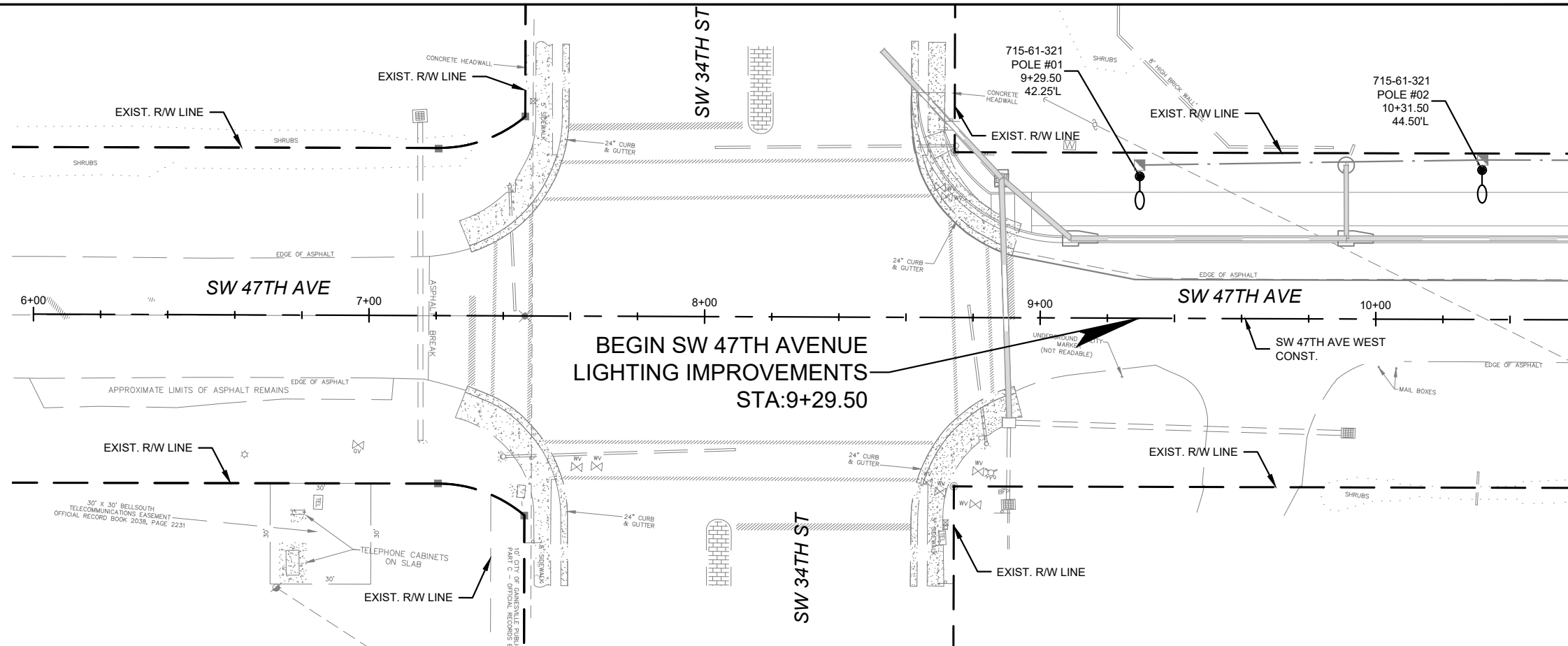
\*\*ILLUMINATION UNIFORMITY RATIOS DO NOT APPLY TO V.F.C.

- NOTES:
1. PAY ITEM 715-63-321 TO INCLUDE A 10' ARM AND A 4' ARM.
  2. SETBACK MEASUREMENT FROM FACE OF CURB OR NEAREST EDGE OF PAVEMENT WHERE CURB IS NOT PRESENT.
  3. ALL 4' ARMS FACE PERPENDICULAR TOWARD THE MULTI USE TRAIL.

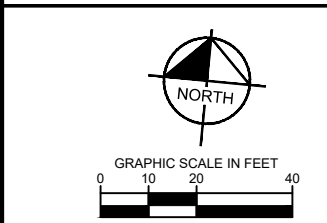
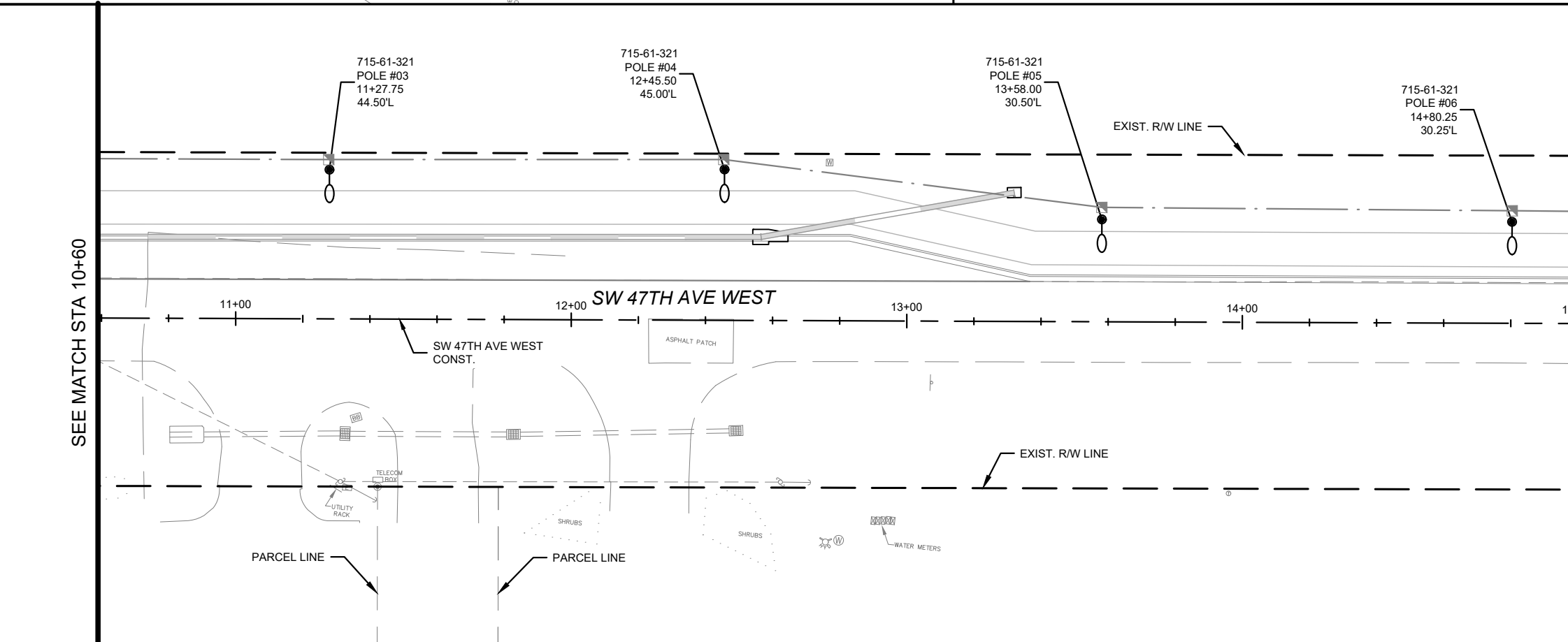
REVISIONS DATE DESCRIPTION		DATE JANUARY 2025	 © 2025 KIMLEY-HORN AND ASSOCIATES, INC. 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601 PHONE: 352-374-3274 WWW.KIMLEY-HORN.COM REGISTRY 35106	LICENSED PROFESSIONAL TIFFANY J. PARKER DOS SANTOS, P.E. 87920 DATE:	CITY OF GAINESVILLE SW 47TH AVENUE EXTENSION ROAD NO. COUNTY PROJECT NO. ALACHUA 142107024			POLE DATA AND LEGEND		SHEET NO. LT1
NOT FOR CONSTRUCTION										

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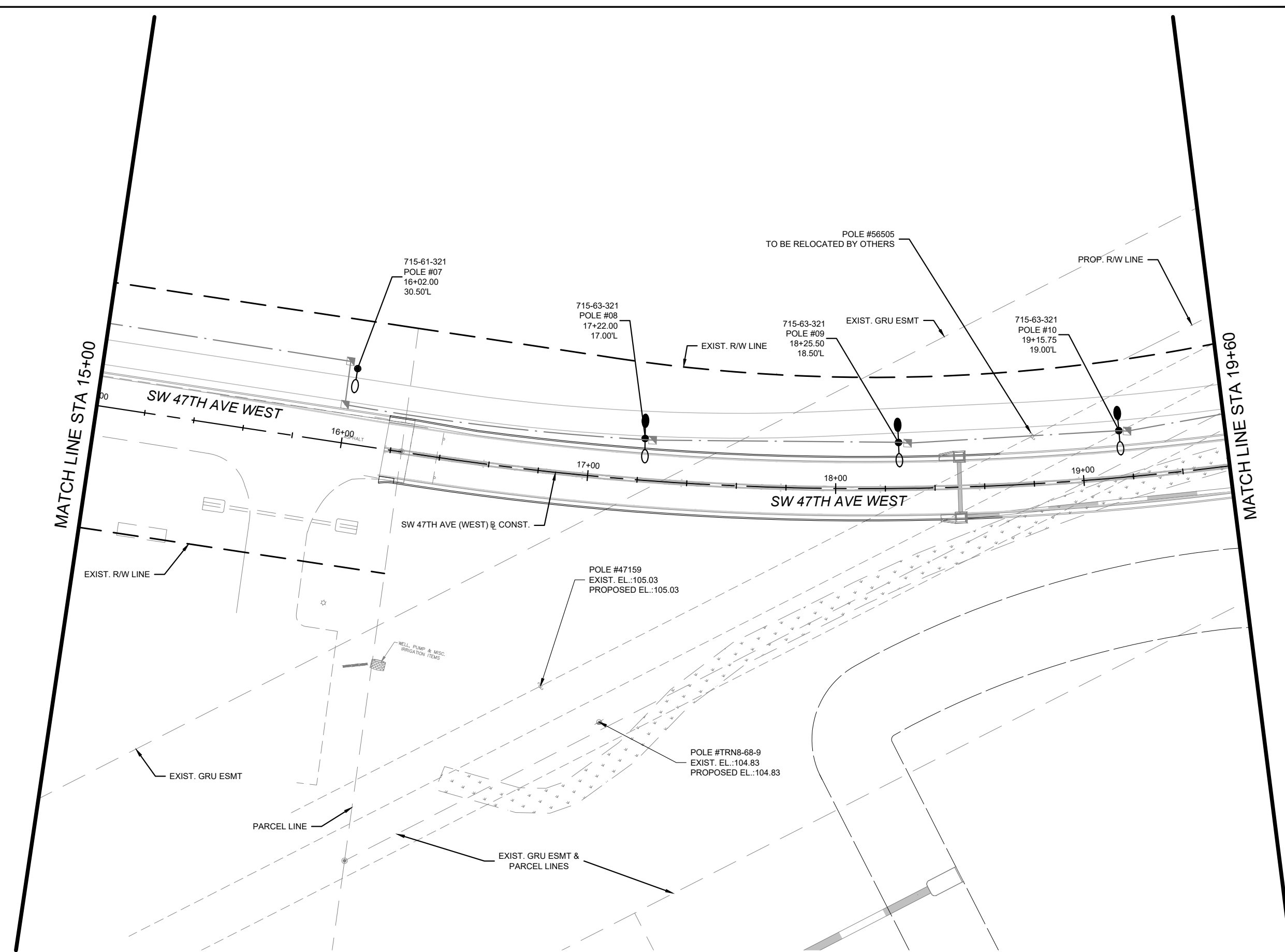
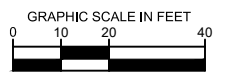
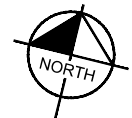
SEE MATCH STA 10+60



SEE MATCH STA 15+00

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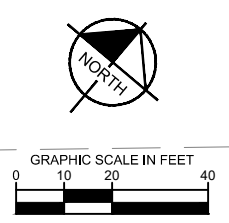
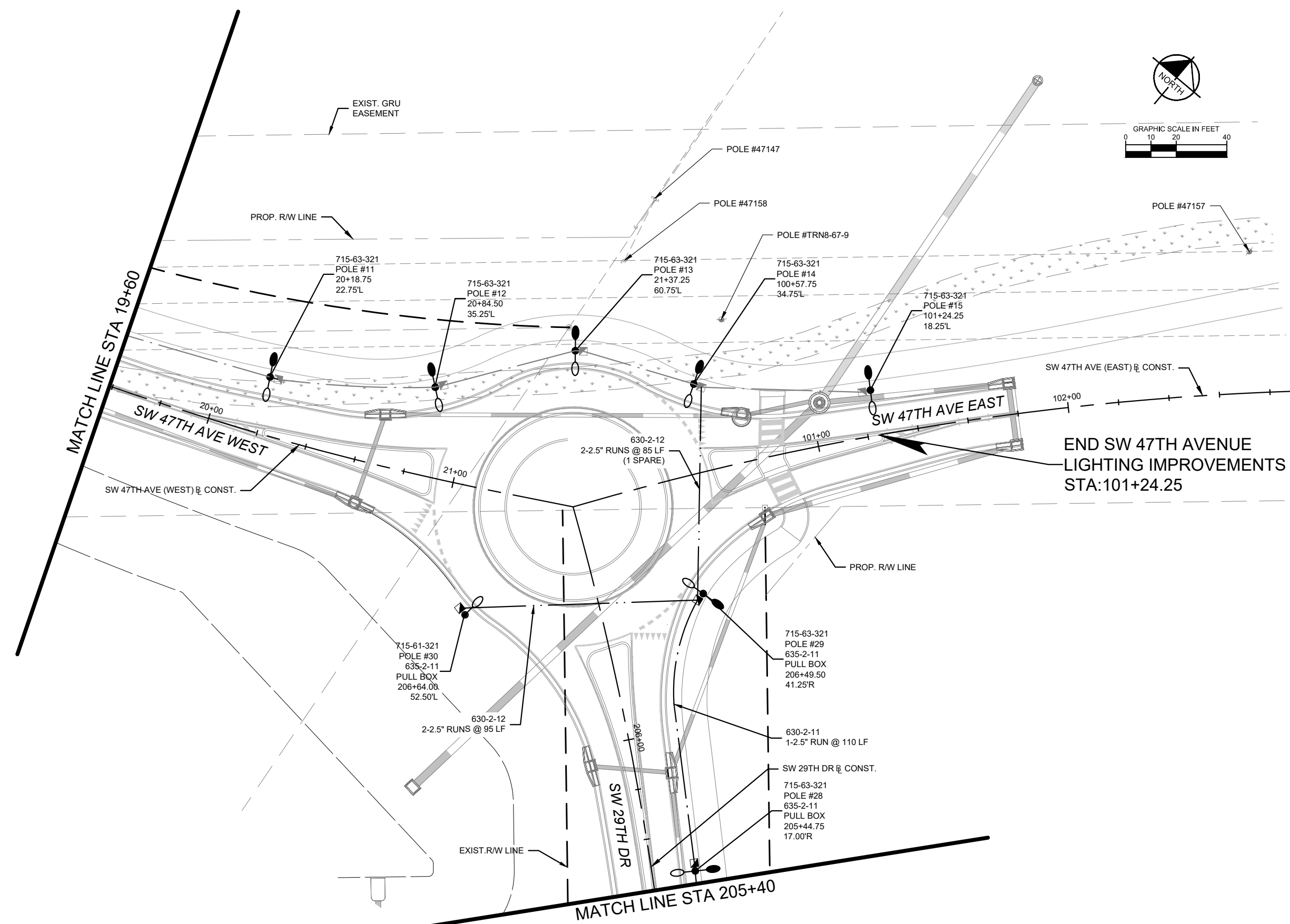
<table border="1"> <thead> <tr> <th>DATE</th> <th>REVISIONS DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>NOT FOR CONSTRUCTION</td> </tr> </tbody> </table>		DATE	REVISIONS DESCRIPTION	-	NOT FOR CONSTRUCTION	<table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>JANUARY 2025</td> <td></td> </tr> <tr> <td>DESIGNED BY</td> <td>KHA</td> </tr> <tr> <td>DRAWN BY</td> <td>KHA</td> </tr> <tr> <td>CHECKED BY</td> <td>KHA</td> </tr> </tbody> </table>	DATE	DESCRIPTION	JANUARY 2025		DESIGNED BY	KHA	DRAWN BY	KHA	CHECKED BY	KHA	<p><b>Kimley»Horn</b></p> <p>© 2025 KIMLEY-HORN AND ASSOCIATES, INC.        800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601        PHONE: 352-374-3274        WWW.KIMLEY-HORN.COM REGISTRY 35106</p>	<p>LICENSED PROFESSIONAL</p> <p>TIFFANY J. PARKER DOS SANTOS, P.E.        87920        DATE: _____</p>	<p><b>CITY OF GAINESVILLE</b>  <b>SW 47TH AVENUE EXTENSION</b></p> <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>PROJECT NO.</th> </tr> <tr> <td></td> <td>ALACHUA</td> <td>142107024</td> </tr> </table>	ROAD NO.	COUNTY	PROJECT NO.		ALACHUA	142107024	<p><b>LIGHTING PLAN</b></p>	<p>SHEET NO.</p> <p><b>LT2</b></p>
DATE	REVISIONS DESCRIPTION																										
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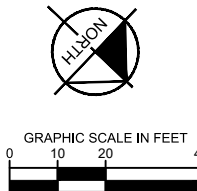
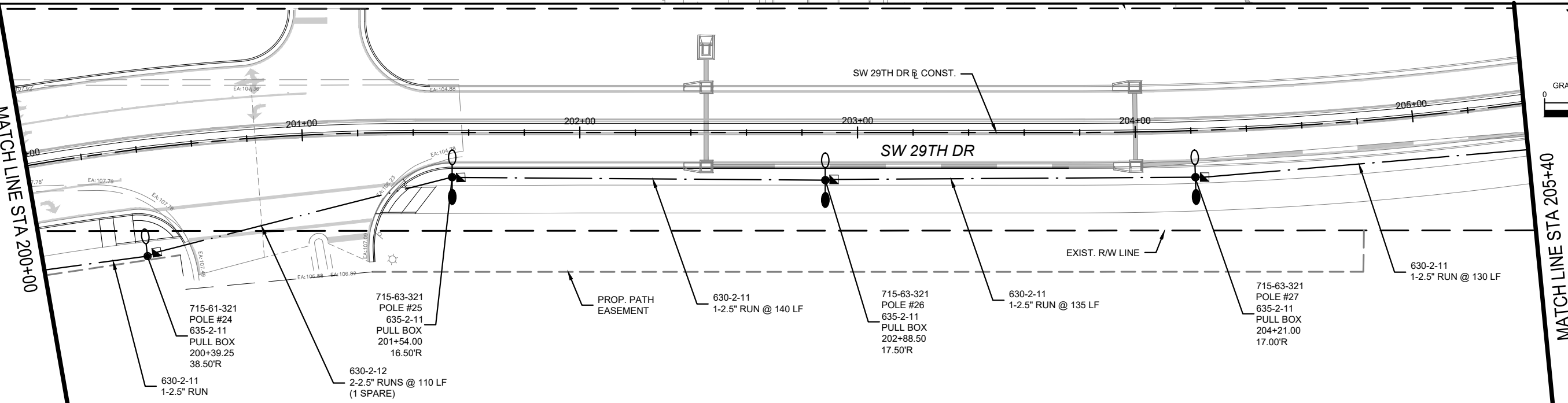
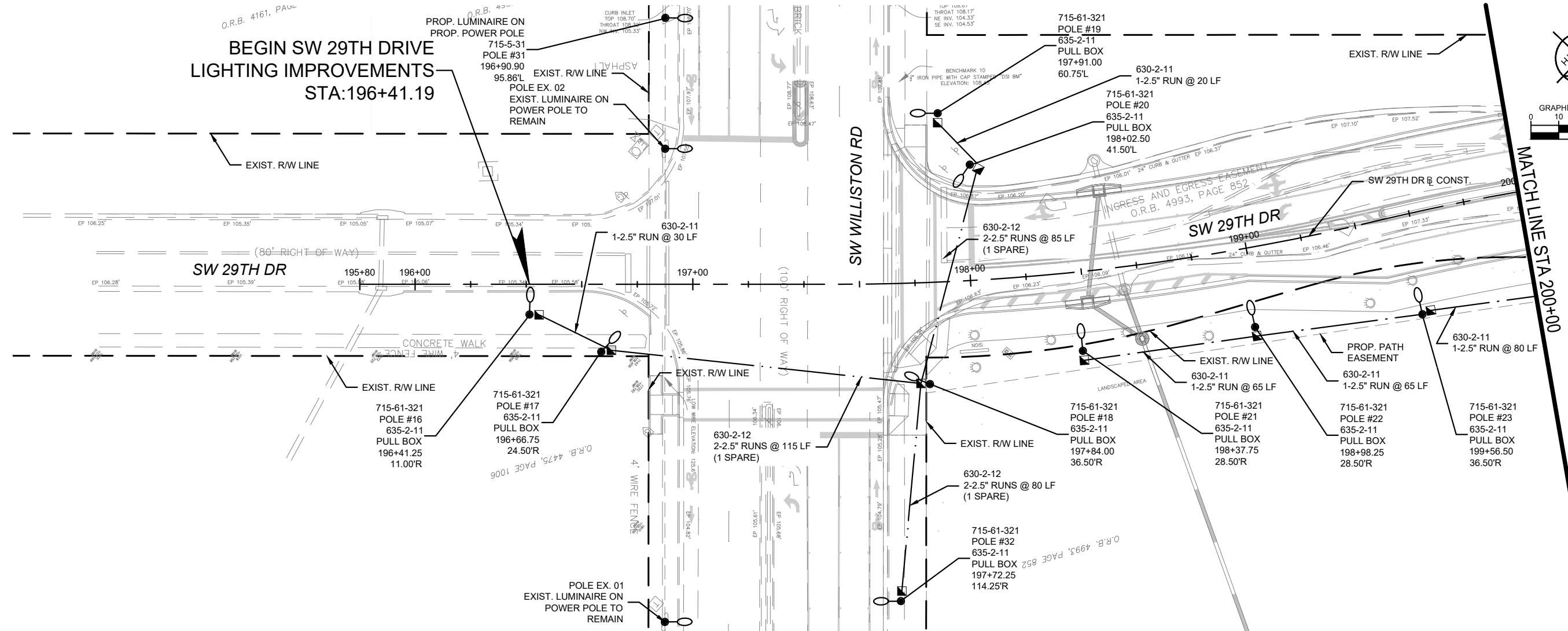
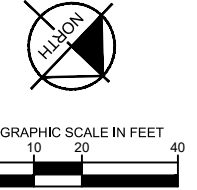
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DATE	REVISIONS DESCRIPTION																										
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REVISIONS		DATE		LICENSED PROFESSIONAL TIFFANY J. PARKER DOS SANTOS, P.E. 87920 DATE:	CITY OF GAINESVILLE SW 47TH AVENUE EXTENSION			SHEET NO.  <b>LT4</b>
DATE	DESCRIPTION	JANUARY 2025			ROAD NO.	COUNTY	PROJECT NO.	
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**BEGIN SW 29TH DRIVE  
LIGHTING IMPROVEMENTS  
STA:196+41.19**



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REVISIONS		DATE		KIMLEY-HORN	LICENSSED PROFESSIONAL	CITY OF GAINESVILLE			SHEET NO.
DATE	DESCRIPTION	JANUARY 2025				ROAD NO.	COUNTY	PROJECT NO.	
-	NOT FOR CONSTRUCTION	DESIGNED BY	KHA	© 2025 KIMLEY-HORN AND ASSOCIATES, INC. 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601 PHONE: 352-374-3274 WWW.KIMLEY-HORN.COM REGISTRY 35106	TIFFANY J. PARKER DOS SANTOS, P.E. 87920 DATE:	ALACHUA	142107024	LT5	
		DRAWN BY	KHA						
		CHECKED BY	KHA						

**SIGNALIZATION NOTES**

- THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, THE FLORIDA DEPARTMENT OF TRANSPORTATION FY 2025-2026 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE FLORIDA DEPARTMENT OF TRANSPORTATION FY 2025-2026 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, AND APPLICABLE INTERIM REVISIONS (IRs).
- ALL WORK SHALL CONFORM TO THE ABOVE-STATED REQUIREMENTS AND ANY LOCAL JURISDICTIONAL REQUIREMENTS THAT EXCEED THOSE LISTED ABOVE, AND ANY MANUFACTURER'S REQUIREMENTS THAT ARE NOT COVERED IN THE ABOVE.
- THESE PLANS REFLECT CONDITIONS KNOWN AT THE TIME OF PLAN DEVELOPMENT. IN THE EVENT THAT ACTUAL FIELD CONDITIONS PREVENT THE APPLICATION OF THESE PLANS AND/OR THE SPECIFICATIONS OR THE PROGRESSION OF THE WORK SPECIFIED IN THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN CHARGE IMMEDIATELY AND PRIOR TO ANY FURTHER PROSECUTION OF THE WORK.
- IT SHOULD BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUITS ARE TO BE INSTALLED BY JACKING, DIRECTIONAL BORING, OR TRENCHED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE JOB SITE CONDITIONS BEFORE SUBMITTING THE PROPOSAL IN ACCORDANCE WITH SECTION 2-4 OF THE SPECIFICATIONS. THE CONTRACTOR SHALL SHOW THE RESULTS OF AT LEAST ONE LOCATION FOR ALL SIGNIFICANT CONFLICTS.
- ANY SURVEY MARKERS, INCLUDING BUT NOT LIMITED TO SECTION MARKERS, BENCH MARKS, LOT CORNERS, ETC., WHICH ARE DISTURBED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE PRIOR TO FINAL PAYMENT. RESETTING OF MONUMENTS AND MARKERS SHALL BE PERFORMED BY A PROFESSIONAL LAND SURVEYOR LICENSED TO PRACTICE IN THE STATE OF FLORIDA. MARKERS RESET WILL BE SHOWN ON AS-BUILT PLANS AS RESET.
- ALL MAST ARM ASSEMBLIES SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH INDEX 649-031 OF THE FDOT FY 2025-2026 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION .
- ALL MAINTENANCE OF TRAFFIC FOR THIS INSTALLATION SHALL CONFORM TO THE FDOT STANDARD PLAN 102 SERIES THAT ARE MOST APPLICABLE TO THE INTENT OF THE CONSTRUCTION ACTIVITY IN PROGRESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF TRAFFIC FOR THE DURATION OF THIS PROJECT.
- DURING NON-WORKING HOURS, THE CONTRACTOR SHALL NOT STORE ANY MATERIALS OR PARK ANY EQUIPMENT WITHIN 30 FEET OF THE EDGE OF THE TRAVELED WAY. IF THE ABOVE IS NOT POSSIBLE, THE CONTRACTOR SHALL REQUEST THE CITY OF GAINESVILLE TO APPOINT AN APPROVED STORAGE AREA AND SUCH AREA SHALL BE PROPERLY DELINEATED AND ADVANCE WARNING SHALL BE UTILIZED.
- IN THE EVENT THAT TRAFFIC SIGNAL CONSTRUCTION ACTIVITY AT THE INTERSECTION REQUIRES CLOSURE OF A LANE OR LANES, THE CONTRACTOR SHALL PROCURE THE SERVICES OF A TRAFFIC CONTROL OFFICER (WITH PATROL CAR WITH FLASHING LIGHTS) TO DIRECT TRAFFIC FOR THE DURATION OF THE CLOSURE(S). PAYMENT FOR THE OFFICER SHALL BE INCIDENTAL TO THE WORK AND WILL NOT BE PAID SEPARATELY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY LOCATION COORDINATION EFFORTS AS REQUIRED BY FLORIDA STATUTE REGARDING PROTECTION OF EXISTING UTILITIES. THE CONTRACTOR IS REMINDED THAT NOT ALL UTILITY PROVIDERS ARE SUBSCRIBERS TO THE SUNSHINE STATE ONE-CALL SYSTEM, AND IT SHALL BE INCUMBENT UPON THE CONTRACTOR TO MAKE EVERY EFFORT TO ENSURE THAT ALL UTILITIES ARE LOCATED PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY DEPARTMENT 48 HOURS IN ADVANCE OF POLE SETTING OPERATIONS WHERE WORK WITHIN 20 FEET OF OVERHEAD ELECTRICAL CONDUCTORS IS EXPECTED OR ANYWHERE UTILITY CONFLICTS MAY BE ENCOUNTERED WITH TRENCHING OPERATIONS.
- IN THE EVENT OF CONFLICT WITH THE CROSSINGS OF EXISTING UTILITIES, THE CONTRACTOR SHALL ADJUST THE DEPTH OF PROPOSED CONDUIT AS INSTRUCTED BY THE ENGINEER IN CHARGE TO PROVIDE VERTICAL SEPARATION PER PREVAILING STANDARDS.
- PRIOR TO COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE 553.851 FOR THE PROTECTION OF UNDERGROUND GAS PIPELINES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES TO REMAIN IN PLACE.
- THE CONTRACTOR SHALL HAND DIG THE FIRST FOUR (4) FEET AT EACH PEDESTAL LOCATION TO VERIFY NO UTILITY CONFLICTS.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF GAINESVILLE TRAFFIC DIVISION AND F.D.O.T. A MINIMUM OF TWO BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR IS REQUIRED TO INSPECT THE INSTALLATION OF THE TRAFFIC SIGNALS IN ACCORDANCE WITH FDOT SPECIFICATION 105-5. THE CONTRACTOR SHALL COORDINATE THE FINAL ACCEPTANCE INSPECTION IN ACCORDANCE WITH FDOT SPECIFICATION 611-2.2 WITH THE ENGINEER AT LEAST TEN DAYS IN ADVANCE. THE CITY OF GAINESVILLE TRAFFIC DIVISION AND FDOT SHOULD ALSO BE CONTACTED TEN DAYS BEFORE THE INSPECTION IS TO BE PERFORMED SO THEY MAY BE PRESENT.
- AT THE TIME OF FINAL INSPECTION OF THE INSTALLATION, THE CONTRACTOR SHALL PROVIDE THREE SETS OF CONSTRUCTION AS-BUILT PLANS. AS-BUILTS TO COMPLY WITH FDOT SPECIFICATION SECTION 611. PREAPPROVED SERIES RESISTANCE DATA FORMS FOR ALL GROUNDING ELECTRODES, AND SCHEMATIC LAYOUT OF ALL GROUNDING RODS SHALL BE FURNISHED. THREE SETS OF HARD COPY AS-BUILT PRINTS AND ONE DIGITAL FILE IN AUTOCAD 2015 OR HIGHER ARE REQUIRED.
- THE LOCAL FDOT PERMIT MANAGER MUST BE INFORMED TWO BUSINESS DAYS BEFORE ANY DIRECTIONAL BORES.
- ALL COMMUNICATION CABLE SHALL BE INSTALLED IN SEPARABLE PULL BOXES.
- ALL FIELD WIRING SHALL BE CLEARLY IDENTIFIED WITH WEATHERPROOF TAGS THAT ARE SECURELY ATTACHED TO EACH CABLE. THE CONTRACTOR SHALL SUBMIT THE PROPOSED TAGGING SYSTEM WITH THE SUBMITTALS PACKAGE.
- THE CONTRACTOR IS NOT TO USE JONES PLUGS.
- THE LOCATION OF ALL POLES, PEDESTALS, AND OTHER EQUIPMENT REQUIRING EXCAVATION SHALL BE CONSIDERED APPROXIMATE DUE TO THE APPROXIMATE DUE TO THE POTENTIAL OF CONFLICT WITH UNDERGROUND UTILITIES. ADJUSTMENTS MAY BE SUBJECT TO ADVANCE APPROVAL OF THE ENGINEER.
- THE CONTRACTOR SHALL VERIFY ALL MAST ARM ELEVATIONS AND LOCATIONS INCLUDING POSSIBLE OVERHEAD AND UNDERGROUND UTILITY CONFLICTS PRIOR TO ORDERING MAST ARMS. THE CONTRACTOR SHALL VERIFY MAST ARM ROADWAY ORIENTATION PRIOR TO PLACEMENT MAST ARM OF IMPROPER SIZE OR INCORRECT ORIENTATION SHALL BE REPLACED AT CONTRACTORS EXPENSE. THE CONTRACTOR SHALL VERIFY THAT ALL MAST ARM ELEVATIONS WILL MEET MUTCD AND FDOT REQUIREMENTS FOR LOW POINT OF CLEARANCE PRIOR TO ORDERING MAST ARMS.
- CONTRACTOR TO HAND DIG THE FIRST 4 FEET OF POLE FOUNDATIONS AND CONTACT THE APPROPRIATE UTILITY COMPANIES FOR LOCATES 2 FULL BUSINESS DAYS PRIOR TO ANY EXCAVATION.

**FDOT DISTRICT TWO SIGNALIZATION NOTES**

- VERIFY COLOR CODES FOR BOTH SIGNAL AND COMMUNICATION CABLE WITH THE CITY OF GAINESVILLE BEFORE ORDERING.
- SPARE CONDUIT RUNS FROM THE CONTROLLER BASE SHALL BE TERMINATED ONE EACH IN THE NEAREST VIDEO PULL BOX AND SIGNAL CABLE PULL BOX.
- NOTIFY TRAFFIC SIGNAL SUPERVISOR WITH CITY OF GAINESVILLE AT (352) 393-7960 48 HOURS IN ADVANCE OF BEGINNING SIGNAL WORK TO OBSERVE INSTALLATION IF DESIRED.

- REMOVE EXISTING PULL BOX(ES). COST OF RESTORATION TO THE ENGINEER'S SATISFACTION TO BE INCLUDED UNDER RELATED PAY ITEM(S).
- WHERE FOOTERS OR FOUNDATIONS ARE TO BE INSTALLED BY AUGERING OR DRILLING, SURVEY AND STAKE OR PAINT TO AN ACCURACY OF 0.1' PRIOR TO REQUESTING UTILITY LOCATES. STAKE OR PAINT THE CENTER OF EACH LOCATION AND CLEARLY LABEL WITH STATION, OFFSET, IDENTIFYING STRUCTURE NUMBER, AND DIAMETER OF EXCAVATION IN INCHES.
- WHERE AUGERING OR DRILLING, EXCAVATE THE FIRST 4 FEET BY NON-MECHANICAL AND NON-DESTRUCTIVE MEANS.
- WHEN BORING UNDER ROADWAY PAVEMENT, MAINTAIN A BORE DEPTH EQUAL TO TEN TIMES THE BORED DIAMETER OR GREATER AS MEASURED FROM THE TOP OF PAVEMENT TO THE TOP OF BORE, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- FIFTEEN MINUTES PRIOR TO INITIATING MOT FOR A LANE CLOSURE, CONTACT THE DISTRICT TWO RTMC AT (904) 903-2000 TO PROVIDE INFORMATION ON THE ROADWAY, DIRECTION OF TRAVEL, AND WHICH LANE(S) WILL BE CLOSED. ONCE WORK IS COMPLETE AND LANES ARE REOPENED, CONTACT THE DISTRICT TWO RTMC WITHIN THIRTY MINUTES TO NOTIFY THEM THAT THE CLOSURES HAVE BEEN REMOVED.


**CITY OF GAINESVILLE SIGNAL EQUIPMENT NOTES**

- ALL SIGNAL EQUIPMENT SHALL BE COMPATIBLE 100% WITH EXISTING CITY OF GAINESVILLE SYSTEM.
- INSTALL TRAFFICWARE GROUP NEMA TS2, TYPE 1 ATC TRAFFIC CONTROLLER OR TRAFFICWARE GROUP NEMA TS2, TYPE 1 COMMANDER ATC TRAFFIC CONTROLLER WITH DSRC AND PRIORITY MODULE LICENSE ENABLED.
- AIQ CONTROLLER AND VIDEO DETECTION SHALL BE CONFIGURED FOR FULL ATSPM CAPABILITIES FOR 10HZ DATA LOGGING WITH (A) COUNT/FRONT, (B) STOPBAR/PRESENCE, (C) QUEUE/SETBACK DETECTION ZONES, AND COMPATIBLE WITH CITY OF GAINESVILLE ATSPM.
- INSTALL ITS EXPRESS MANAGED FIELD ETHERNET SWITCH MODEL 8012-24.
- CITY OF GAINESVILLE DOES NOT SUPPORT INSTALLATION OF UPS, EXCEPT AT CRITICAL LOCATIONS (I.E., TRAFFIC SIGNALS WITHIN 200' OF RAIL ROAD TRACKS).
- INSTALL GRIDSMART BELL CAMERA AND GS2 PROCESSOR. VDS SYSTEM SHALL COME WITH PERFORMANCE PLUS DATA AGGREGATION MODULE AND STREAMING VIDEO LICENSE ENABLED.
- INSTALL BOSCH SECURITY SYSTEMS, CAMERA DOME MODEL VGS-ITS1080P-30X4 OR LATER.
- THE CONTRACTOR SHALL COORDINATE ANY REMOVAL ITEMS WITH THE CITY OF GAINESVILLE. PLEASE CONTACT (352) 393-7960, 48 HOURS BEFORE REMOVAL OF ANY SIGNAL INFRASTRUCTURE AND ITS DEVICES.

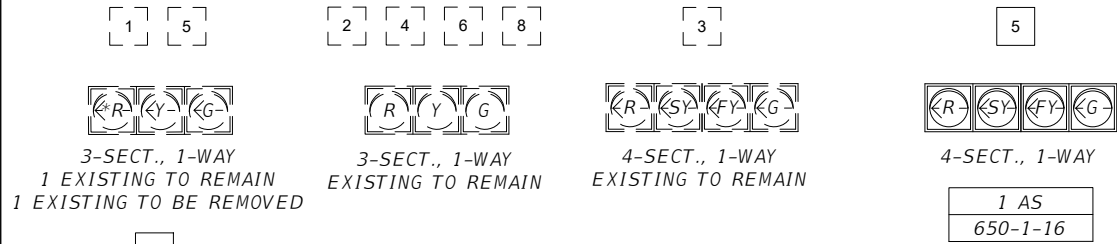
TABULATION OF QUANTITIES										
PAY ITEM NUMBER	DESCRIPTION	UNIT	SHEET T-2		SHEET T-3		SHEET T-7		GRAND TOTAL	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
101-1	MOBILIZATION	LS								1
101-2	MAINTENANCE OF TRAFFIC	LS								1
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF			115		240			355
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF			250		85			335
632-7-1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI	1		1					2
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF					425			425
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA					24			24
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA					1			1
633-3-13	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY	EA					12			12
633-3-16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA					1			1
633-3-17	FIBER OPTIC CONNECTION HARDWARE, F&I, CONNECTOR PANEL	EA					1			1
633-3-51	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE ENCLOSURE	EA					1			1
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA				19				19
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA					1			1
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA					1			1
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS					1			1
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF				70				70
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA					1			1
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA					7			6
649-21-6	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 50'	EA					2			2
649-21-10	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 60'	EA					2			2
650-1-14	TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS					7			7
650-1-16	TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 4 SECTION, 1 WAY	AS	1				4			5
650-1-18	TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 5 SECTION STRAIGHT, 1 WAY	AS	1							1
650-1-60	TRAFFIC SIGNAL, REMOVE - POLES TO REMAIN	AS	1							1
653-1-11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS					6			6
660-4-11	VEHICLE DETECTION SYSTEM - VIDEO FURNISH & INSTALL CABINET EQUIPMENT	EA					1			1
660-4-12	VEHICLE DETECTION SYSTEM - VIDEO FURNISH & INSTALL ABOVE GROUND EQUIPMENT	EA					1			1
665-1-11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA					6			6
670-5-110	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA	AS					1			1
671-2-40	TRAFFIC CONTROLLER, MODIFY	EA	1							1
682-1-133	ITS CCTV CAMERA, F&I, DOME ENCLOSURE - NON-PRESSURIZED, IP, HIGH DEFINITION	EA					1			1
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA					1			1
700-3-202	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, 12-20 SF	EA					4			4

ALL TRAFFIC SIGNAL EQUIPMENT MUST BE CONSISTENT WITH CITY OF GAINESVILLE TRAFFIC CONTROL STANDARDS. CONTRACTOR SHALL COORDINATE WITH THE CITY OF GAINESVILLE TO CONFIRM THAT EQUIPMENT STANDARDS HAVE NOT CHANGED SINCE THE TIME OF PUBLICATION OF THESE PLANS.

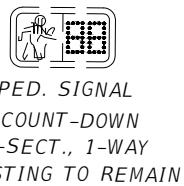
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- - NOT FOR CONSTRUCTION		DESIGNED BY KHA DRAWN BY KHA CHECKED BY KHA		77731 DATE:	ROAD NO. <b>ALACHUA</b>	COUNTY <b>ALACHUA</b>	PROJECT NO. <b>142107024</b>		

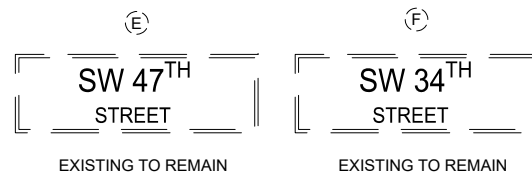
**SIGNAL HEAD DETAILS**



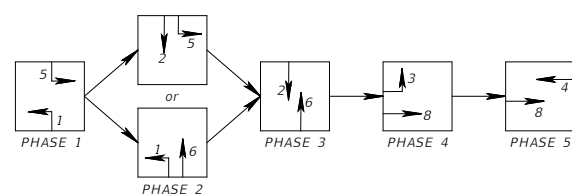
**PEDESTRIAN HEAD DETAILS**



**SIGN DETAILS**

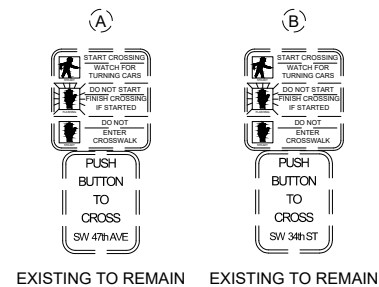


**SIGNAL OPERATING PLAN**



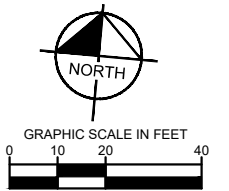
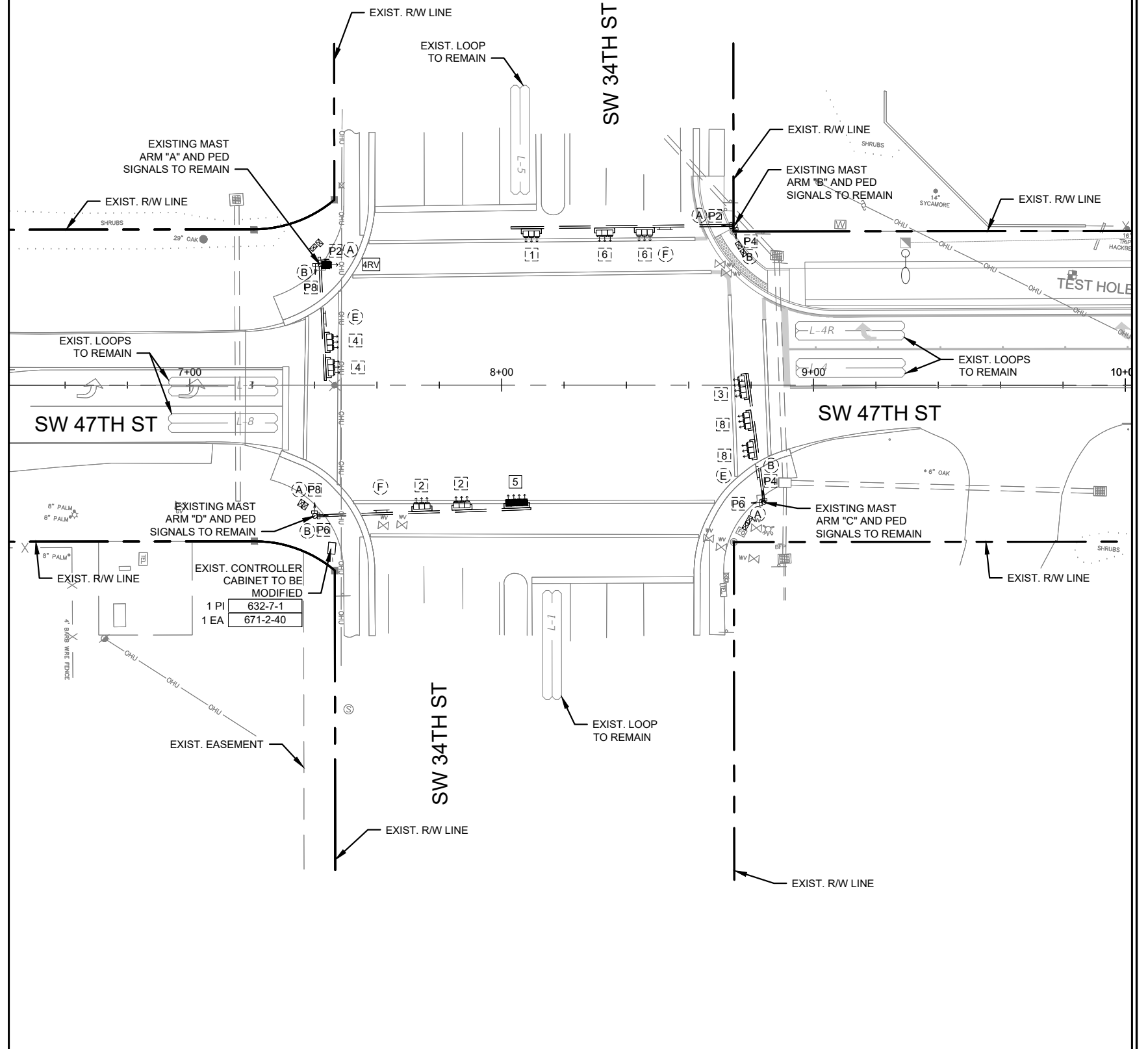
**CONTROLLER OPERATIONS:**

1. THE MAJOR STREET IS SR 121 (SW 34TH ST) AND THE MINOR STREET IS SW 47TH AVE.
2. EXISTING CLEARANCE AND ALL RED TIMINGS TO REMAIN.
3. EXISTING DETECTION LOOPS TO REMAIN.



**REMOVAL ITEMS:**

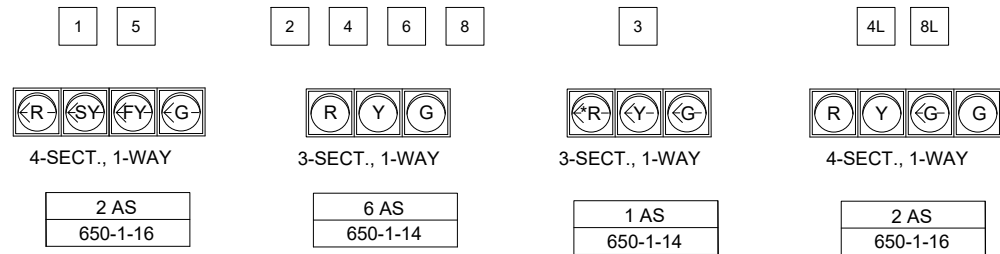
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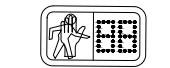
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NOT FOR CONSTRUCTION		DESIGNED BY KHA DRAWN BY KHA CHECKED BY KHA		HICKERNELL, ROBERT 1/16/2025 4:51:41 PM	K:\GVL_RDWY\142107024-SW 47th Avenue Extension Design\CAD\PlanSheets\T2_SIGNAL PLAN.dwg		

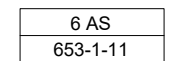
**SIGNAL HEAD DETAILS**



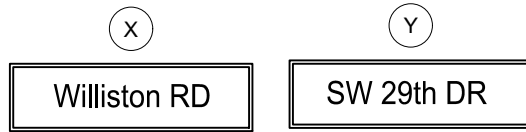
**PEDESTRIAN HEAD SIGNAL**



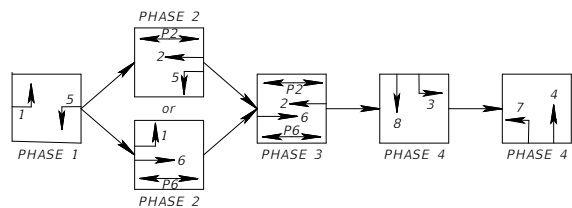
PED. SIGNAL  
COUNT-DOWN  
1-SECT., 1-WAY



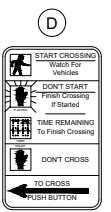
**SIGN DETAILS**



**SIGNAL OPERATING PLAN**



INCLUDED IN PAY ITEM 665-1-11 (3 EA)



INCLUDED IN PAY ITEM 665-1-11 (3 EA)

**NOTES:**

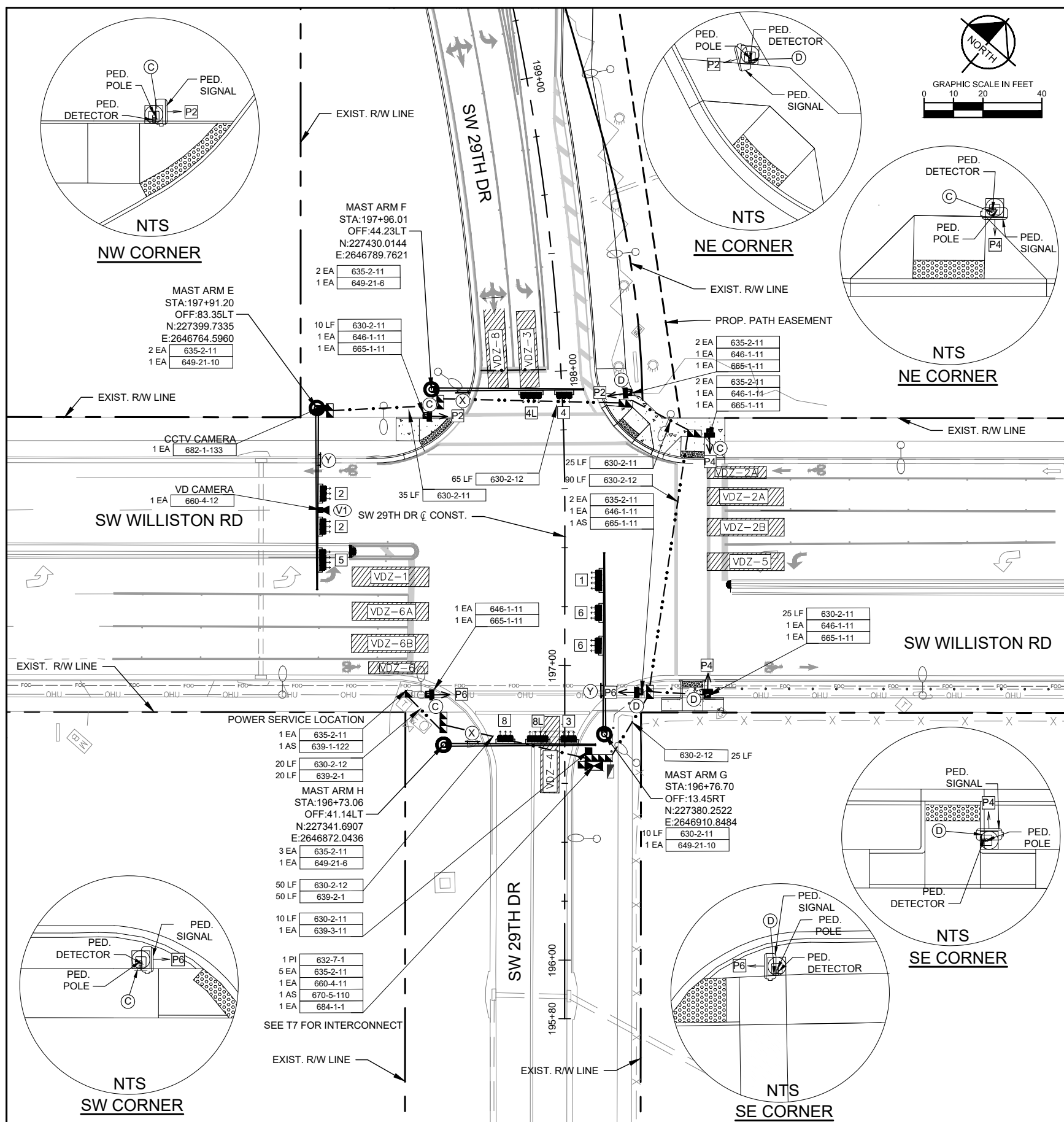
- MAJOR STREET IS SR 331 / SW WILLISTON ROAD  
MINOR STREER IS SW 29TH DRIVE.
- SIGNAL OPERATING PLAN SHALL BE AS SHOWN.
- FLASHING OPERATION: SIGNAL HEADS 2 AND 6 - YELLOW  
SIGNAL HEADS 1,3,4,5, AND 8 - RED
- PROPOSED VIDEO DETECTION ZONES SHOWN ARE FOR GUIDANCE TO THE TECHNICIAN SETTING UP THE SYSTEM. DIMENSIONS GIVEN ARE NOMINAL AND SHOULD CONFORM AS CLOSELY AS POSSIBLE TO THOSE PLANNED WITHOUT CREATING OVERLAPS OR CONFLICTS IN COVERAGE AREAS.
- DIMENSIONS FOR STREET NAME SIGNS ARE INCLUDED ON SHEET T6.

**INITIAL CONTROLLER TIMINGS**

MOVEMENT FUNCTION	1	2	3	4	5	6	7	8
MOVEMENT FUNCTION	EBL	WB	SBL	NB	WBL	EB	-	SB
MINIMUM GREEN	-	-	-	-	-	-	-	-
EXTENSION	-	-	-	-	-	-	-	-
MAXIMUM GREEN 1	-	-	-	-	-	-	-	-
MAXIMUM GREEN 2	-	-	-	-	-	-	-	-
YELLOW	4.8	4.8	3.7	3.7	4.8	4.8	-	3.7
ALL RED	2.0	2.0	2.8	2.0	2.0	2.0	-	2.8
PEDESTRIAN WALK	-	7	-	7	-	7	-	-
PED. CLEARANCE	-	18	-	22	-	15	-	-
RECALL	-	MIN	-	-	-	MIN	-	-

**VIDEO DETECTION ZONES**

DETECTION ZONE	SIZE	DETECTOR OPERATION	DELAY TIME (SEC)
VDZ-1	6'X26'	NORMAL	-
VDZ-2A, 2B	6'X26'	NORMAL	-
VDZ-2A, BIKE	4'X20'	NORMAL	-
VDZ-3	6'X26'	NORMAL	-
VDZ-4	6'X26'	DELAY	-
VDZ-5	6'X26'	NORMAL	-
VDZ-6A, 6B	6'X26'	NORMAL	-
VDZ-6 BIKE	4'X20'	NORMAL	-
VDZ-8	6'X26'	DELAY	-



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NOT FOR CONSTRUCTION					Dávalos, Fernando 1/16/2025 6:35:59 PM		K:\GVL_RDW\142107024-SW 47th Avenue Extension Design\CAD\PlanSheets\T3_SIGNAL PLAN.dwg				



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STANDARD MAST ARM ASSEMBLIES DATA TABLE											
STRUCTURE ID NUMBERS	DESIGNATION	FIRST ARM		SECOND ARM		UF (deg)	LL (deg)	POLE			DRILLED SHAFT ID
		ARM ID	FAA (ft.)	ARM ID	SAA (ft.)			POLE ID	UAA (ft.)	UB (ft.)	

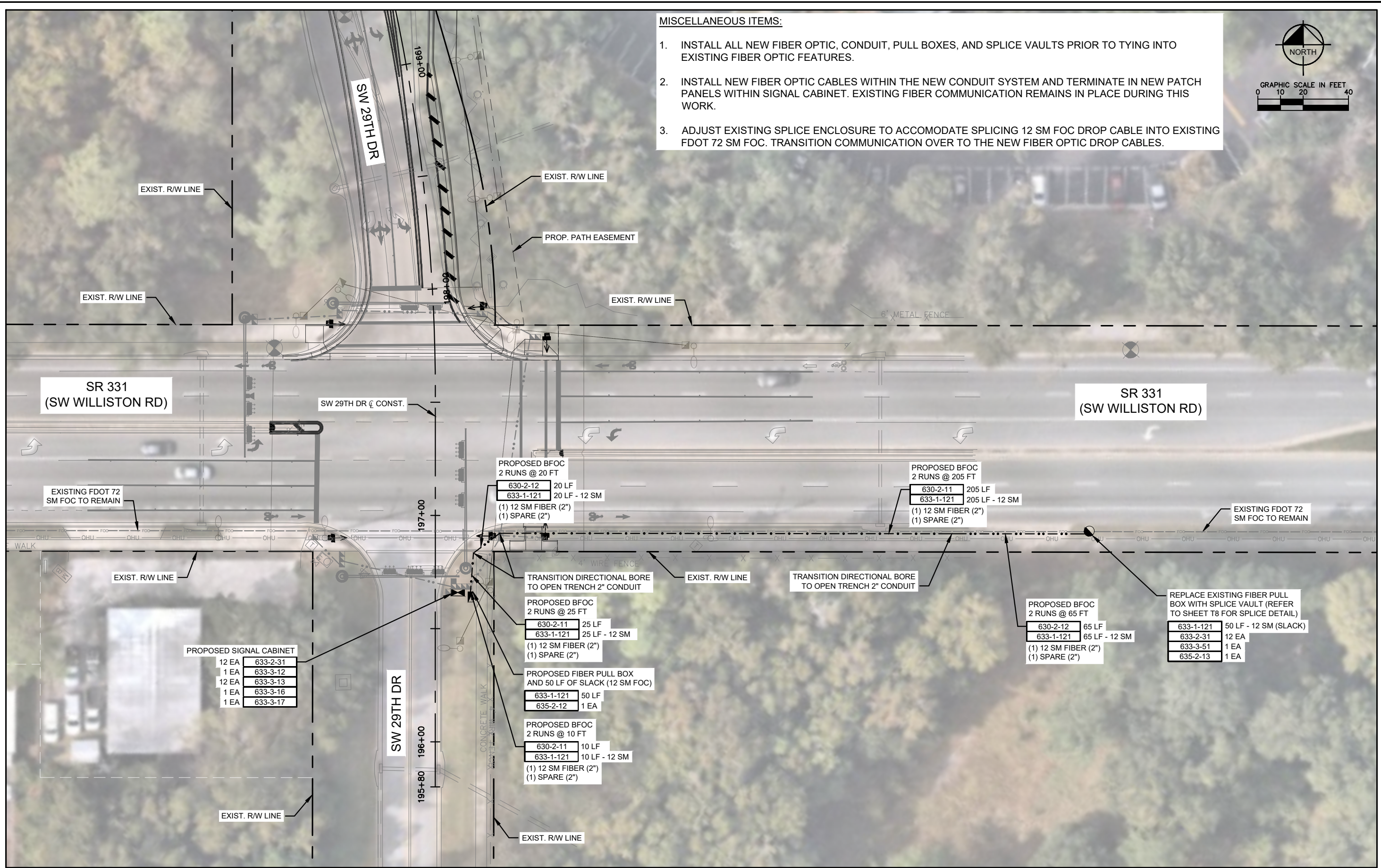
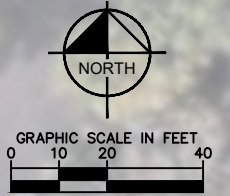
STRUCTURAL DESIGN NOT INCLUDED IN THIS SET. WILL BE INCLUDED IN SUBSEQUENT SET.

REVISIONS		DATE	<p style="font-size: 8px; margin-top: 5px;">© 2025 KIMLEY-HORN AND ASSOCIATES, INC. 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601 PHONE: 352-374-3274 WWW.KIMLEY-HORN.COM REGISTRY 35106</p>	LICENSED PROFESSIONAL <b>JOSEPH A. ROBERTS JR.</b>  78547 DATE: _____			<b>CITY OF GAINESVILLE</b> SW 47TH AVENUE EXTENSION			<h2 style="margin: 0;">MAST ARM ASSEMBLIES DESIGN TABLE</h2>		SHEET NO.
DATE	DESCRIPTION	DESIGNED BY		ROAD NO.			COUNTY	PROJECT NO.				T5
		DRAWN BY		ALACHUA			142107024					
		CHECKED BY		NOT FOR CONSTRUCTION								



**MISCELLANEOUS ITEMS:**

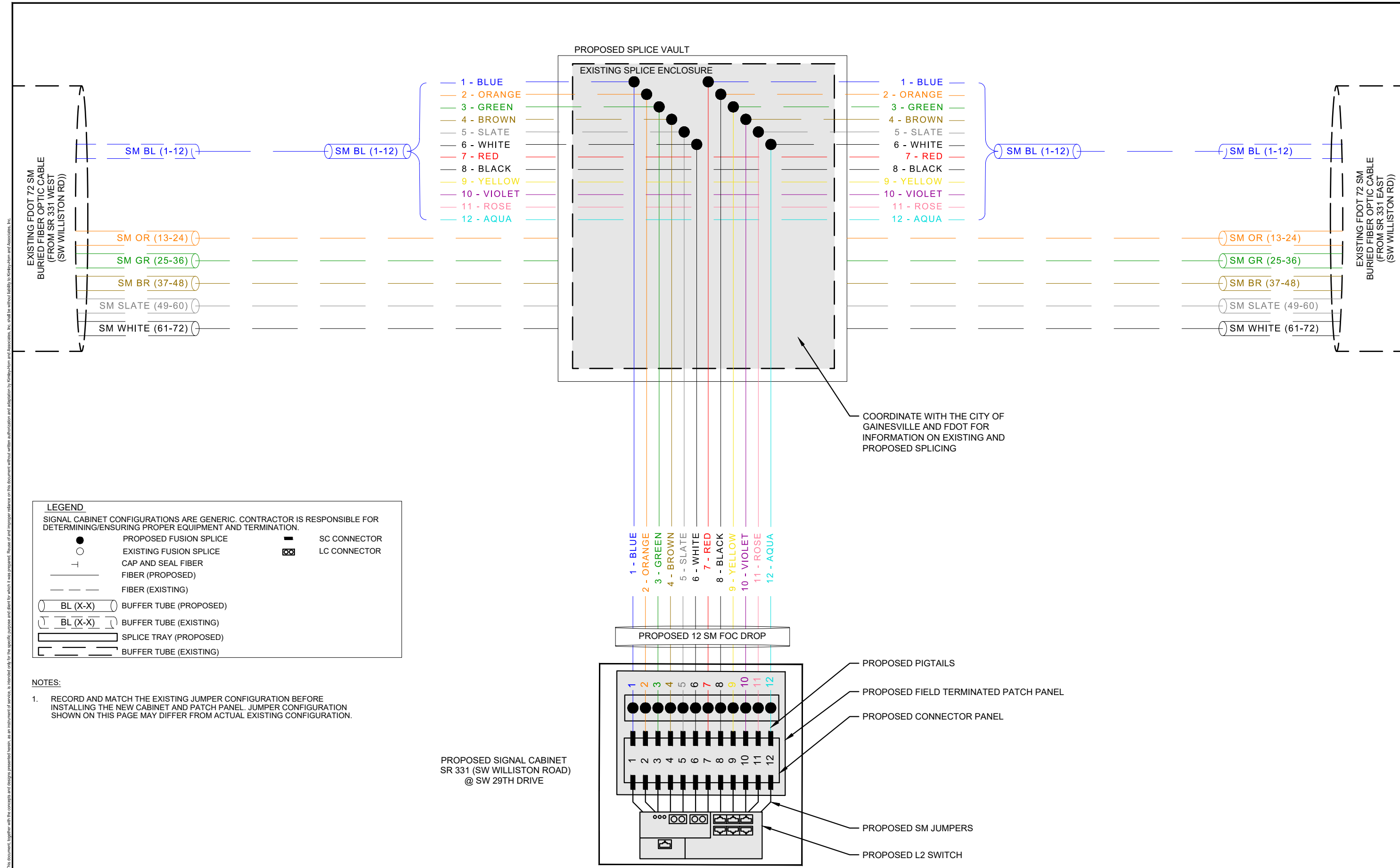
1. INSTALL ALL NEW FIBER OPTIC, CONDUIT, PULL BOXES, AND SPLICE VAULTS PRIOR TO TYING INTO EXISTING FIBER OPTIC FEATURES.
2. INSTALL NEW FIBER OPTIC CABLES WITHIN THE NEW CONDUIT SYSTEM AND TERMINATE IN NEW PATCH PANELS WITHIN SIGNAL CABINET. EXISTING FIBER COMMUNICATION REMAINS IN PLACE DURING THIS WORK.
3. ADJUST EXISTING SPLICE ENCLOSURE TO ACCOMODATE SPLICING 12 SM FOC DROP CABLE INTO EXISTING FDOT 72 SM FOC. TRANSITION COMMUNICATION OVER TO THE NEW FIBER OPTIC DROP CABLES.



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<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>NOT FOR CONSTRUCTION</td> </tr> </tbody> </table>		REVISIONS		DATE	DESCRIPTION	-	NOT FOR CONSTRUCTION	<table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>JANUARY 2025</td> <td></td> </tr> <tr> <td>DESIGNED BY</td> <td>KHA</td> </tr> <tr> <td>DRAWN BY</td> <td>KHA</td> </tr> <tr> <td>CHECKED BY</td> <td>KHA</td> </tr> </tbody> </table>	DATE	DESCRIPTION	JANUARY 2025		DESIGNED BY	KHA	DRAWN BY	KHA	CHECKED BY	KHA	<p><b>Kimley»Horn</b></p> <p>© 2025 KIMLEY-HORN AND ASSOCIATES, INC.              800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601              PHONE: 352-374-3274              WWW.KIMLEY-HORN.COM REGISTRY 35106</p>	<p>LICENSED PROFESSIONAL</p> <p>ALI H. BRIGHTON, P.E.</p> <p>77731</p> <p>DATE: _____</p>	<p><b>CITY OF GAINESVILLE</b>              SW 47TH AVENUE EXTENSION</p> <table border="1"> <thead> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>PROJECT NO.</th> </tr> </thead> <tbody> <tr> <td></td> <td>ALACHUA</td> <td>142107024</td> </tr> </tbody> </table>	ROAD NO.	COUNTY	PROJECT NO.		ALACHUA	142107024	<p><b>INTERCONNECT PLAN</b></p>	<p>SHEET NO.</p> <p><b>T7</b></p>
REVISIONS																													
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	ALACHUA	142107024																											

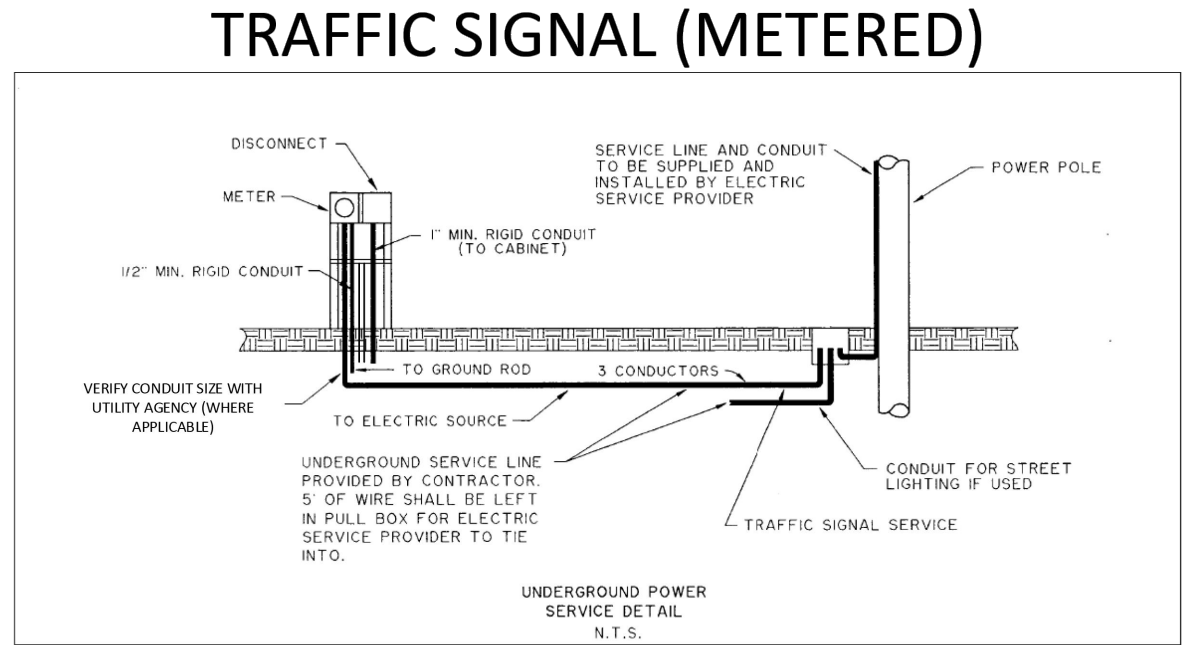
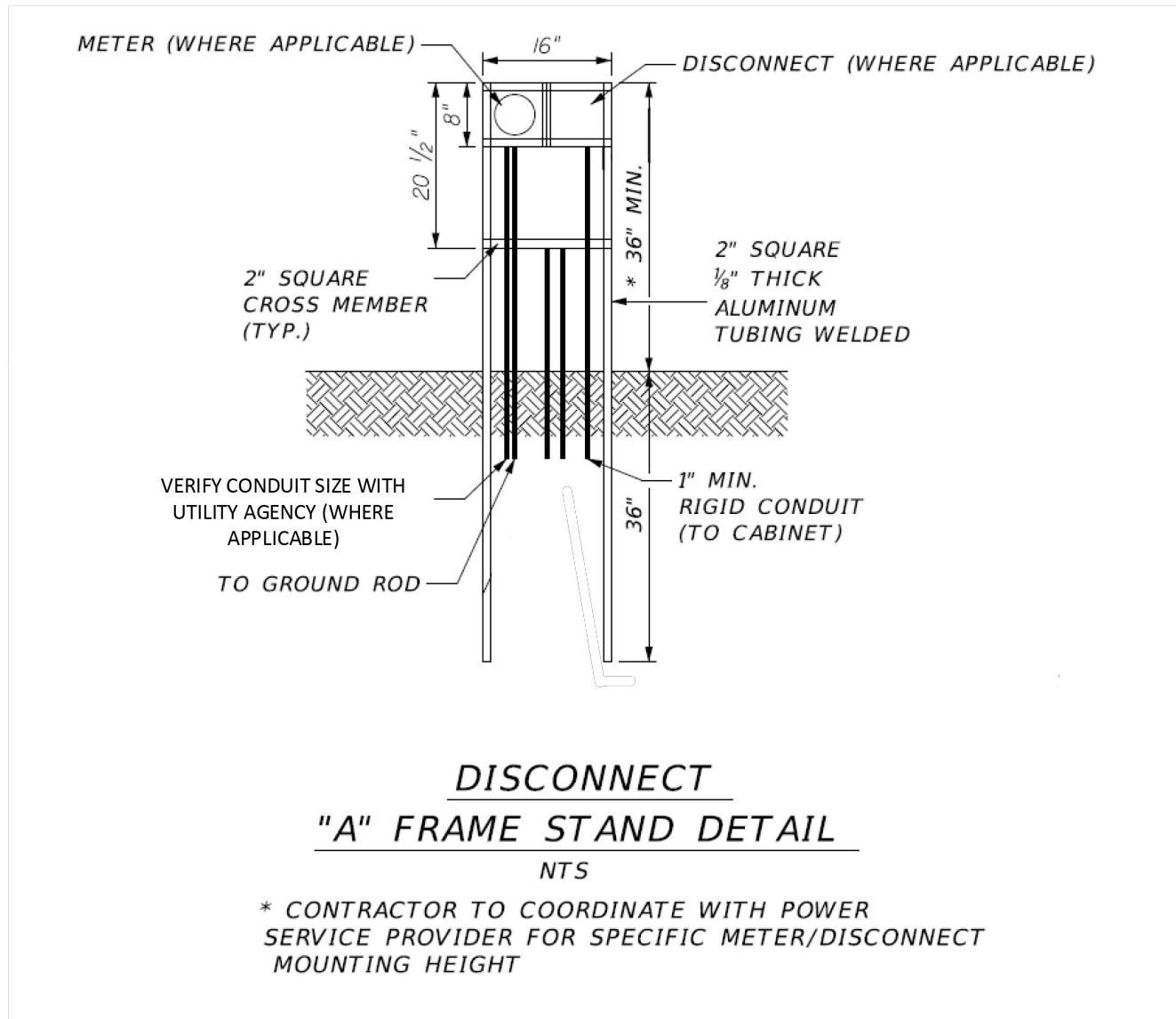


<b>REVISIONS</b> DATE DESCRIPTION		DATE JANUARY 2025	 © 2025 KIMLEY-HORN AND ASSOCIATES, INC. 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601 PHONE: 352-374-3274 WWW.KIMLEY-HORN.COM REGISTRY 35106	LICENSED PROFESSIONAL ALI H. BRIGHTON, P.E. 77731 DATE:	<b>CITY OF GAINESVILLE</b> SW 47TH AVENUE EXTENSION			<b>SPLICE DETAIL</b>	SHEET NO. <b>T8</b>
NOT FOR CONSTRUCTION		DESIGNED BY KHA DRAWN BY KHA CHECKED BY KHA		ROAD NO. COUNTY PROJECT NO. ALACHUA 142107024					

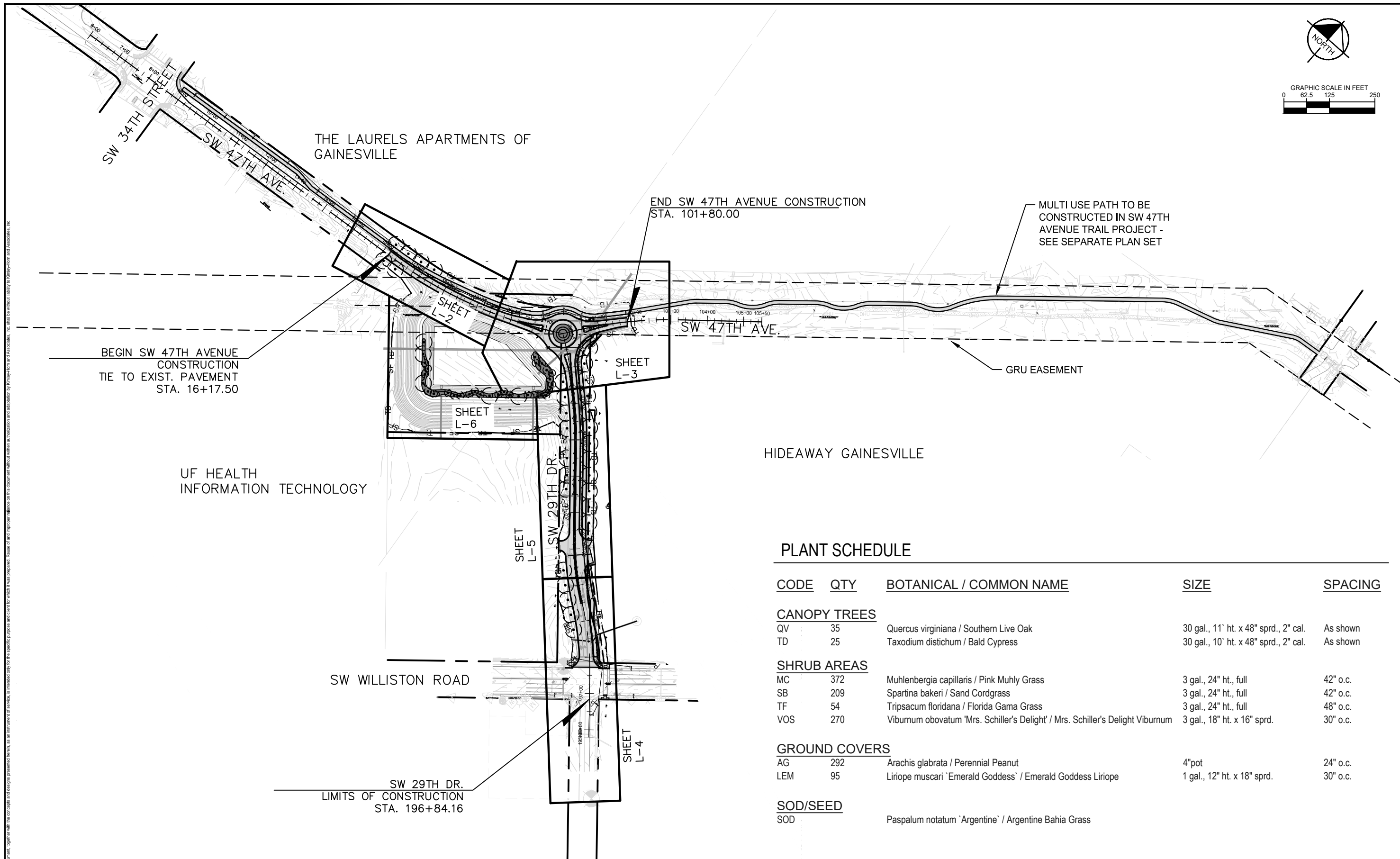
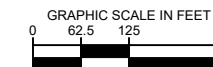
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DATE	DESCRIPTION	JANUARY 2025		ALI H. BRIGHTON, P.E.	ROAD NO.	COUNTY	PROJECT NO.		T9
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NOT FOR CONSTRUCTION				DATE:	ALACHUA	142107024			



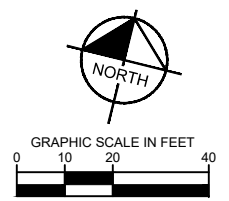
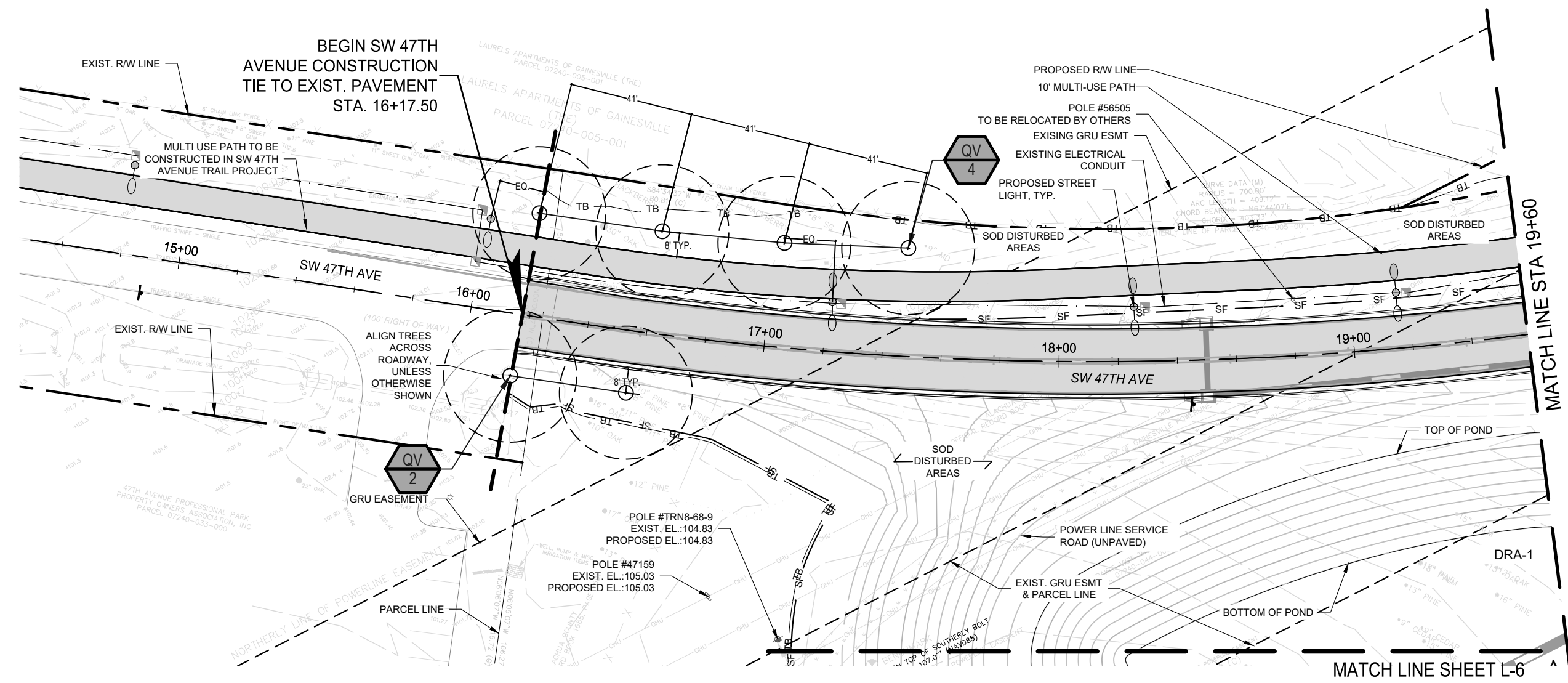
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### PLANT SCHEDULE

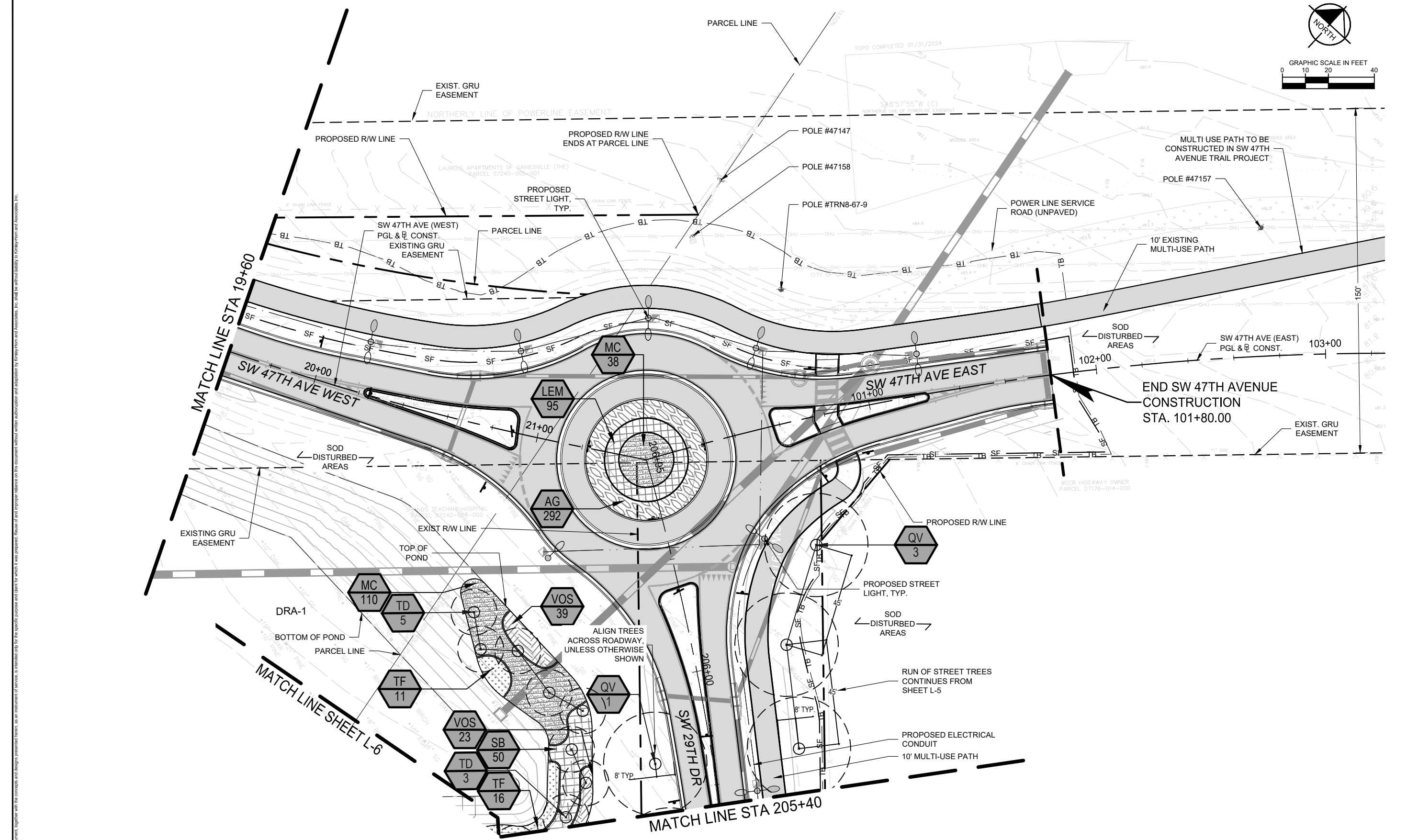
CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SPACING
<b>CANOPY TREES</b>				
QV	35	Quercus virginiana / Southern Live Oak	30 gal., 11' ht. x 48" sprd., 2" cal.	As shown
TD	25	Taxodium distichum / Bald Cypress	30 gal., 10' ht. x 48" sprd., 2" cal.	As shown
<b>SHRUB AREAS</b>				
MC	372	Muhlenbergia capillaris / Pink Muhly Grass	3 gal., 24" ht., full	42" o.c.
SB	209	Spartina bakeri / Sand Cordgrass	3 gal., 24" ht., full	42" o.c.
TF	54	Tripsacum floridana / Florida Gama Grass	3 gal., 24" ht., full	48" o.c.
VOS	270	Viburnum obovatum 'Mrs. Schiller's Delight' / Mrs. Schiller's Delight Viburnum	3 gal., 18" ht. x 16" sprd.	30" o.c.
<b>GROUND COVERS</b>				
AG	292	Arachis glabrata / Perennial Peanut	4" pot	24" o.c.
LEM	95	Liriope muscari 'Emerald Goddess' / Emerald Goddess Liriope	1 gal., 12" ht. x 18" sprd.	30" o.c.
<b>SOD/SEED</b>				
SOD		Paspalum notatum 'Argentine' / Argentine Bahia Grass		

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NOT FOR CONSTRUCTION		DESIGNED BY KHA DRAWN BY KHA CHECKED BY KHA		Abreu, Maceo 1/15/2025 5:16:32 PM	K:\GVL_LA\142107024LA - SW 47th Avenue Extension Design\04_WORKING FILES\CAD\PlanSheets\142107124-SW 47th Ave Extension_LP.dwg		

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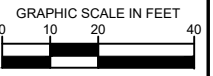
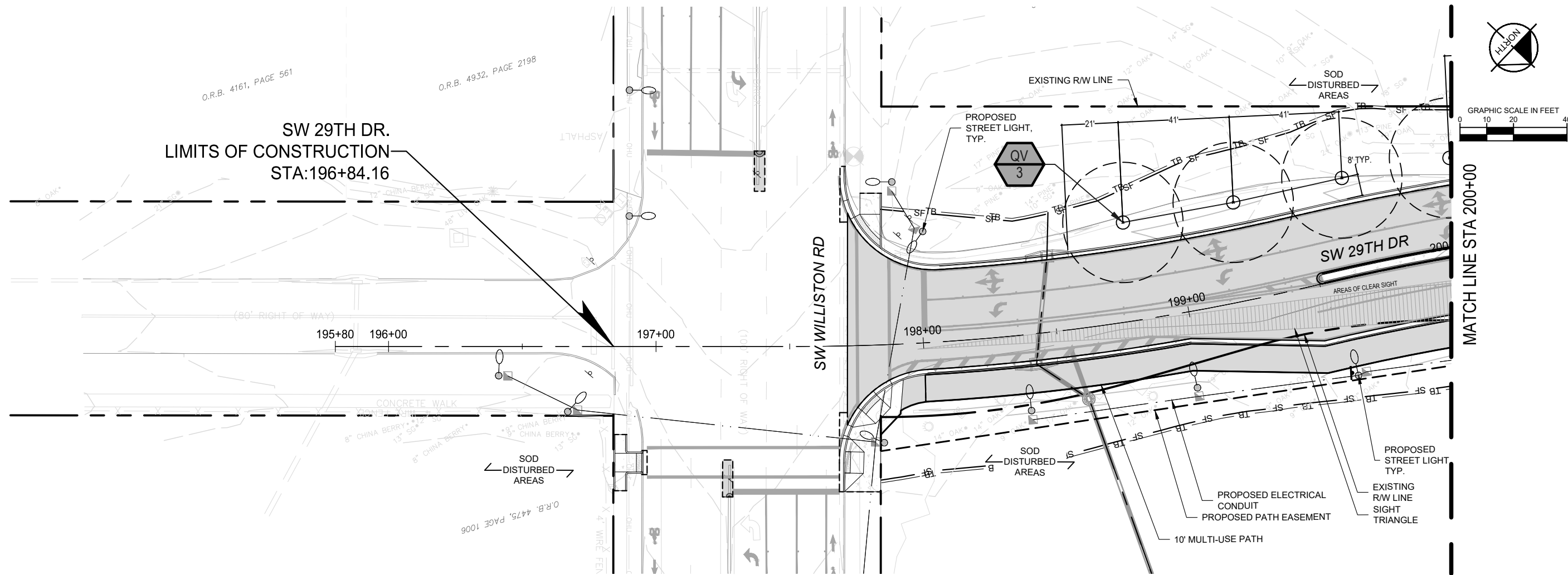
REVISIONS		DATE		LICENSED PROFESSIONAL	CITY OF GAINESVILLE SW 47TH AVENUE EXTENSION			<b>LANDSCAPE PLAN</b>	SHEET NO.
DATE	DESCRIPTION	JANUARY 2025		C. ELISABETH MANLEY	ROAD NO.	COUNTY	PROJECT NO.		L-2
-	NOT FOR CONSTRUCTION		<small>© 2024 KIMLEY-HORN AND ASSOCIATES, INC. 800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601 PHONE: 352-374-3274 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106</small>	LA6666722	ALACHUA	142107024			



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DATE	DESCRIPTION	JANUARY 2025		C. ELISABETH MANLEY	SW 47TH AVENUE EXTENSION				
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				DATE:	ALACHUA	ALACHUA	142107024		

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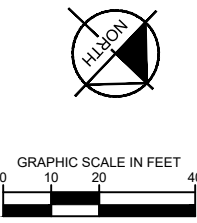
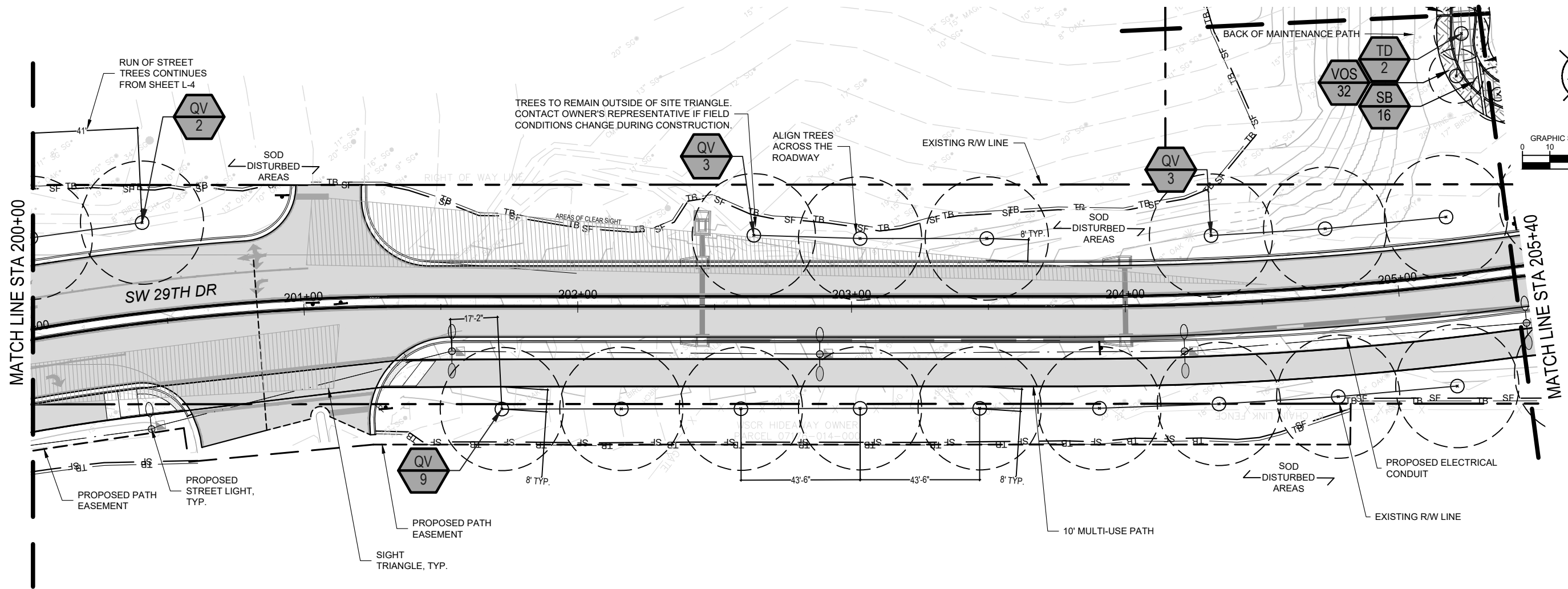
LICENSED PROFESSIONAL  
**C. ELISABETH MANLEY**  
 LA6666722  
 DATE:

CITY OF GAINESVILLE SW 47TH AVENUE EXTENSION		
ROAD NO.	COUNTY	PROJECT NO.
	ALACHUA	142107024

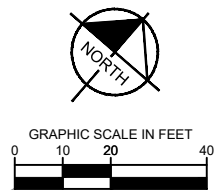
**LANDSCAPE PLAN**

SHEET NO.  
**L-4**

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DATE	DESCRIPTION	JANUARY 2025		C. ELISABETH MANLEY	SW 47TH AVENUE EXTENSION				L-5
		DESIGNED BY KHA		LA6666722	ROAD NO.	COUNTY	PROJECT NO.		
-	NOT FOR CONSTRUCTION	DRAWN BY KHA	WWW.KIMLEY-HORN.COM	DATE:	ALACHUA	142107024			
		CHECKED BY KHA	REGISTRY NO. 35106						



SET X CUT ON TOP OF SOUTH  
ELEVATION = 107.07' (MVD)  
CITY OF GAINESVILLE

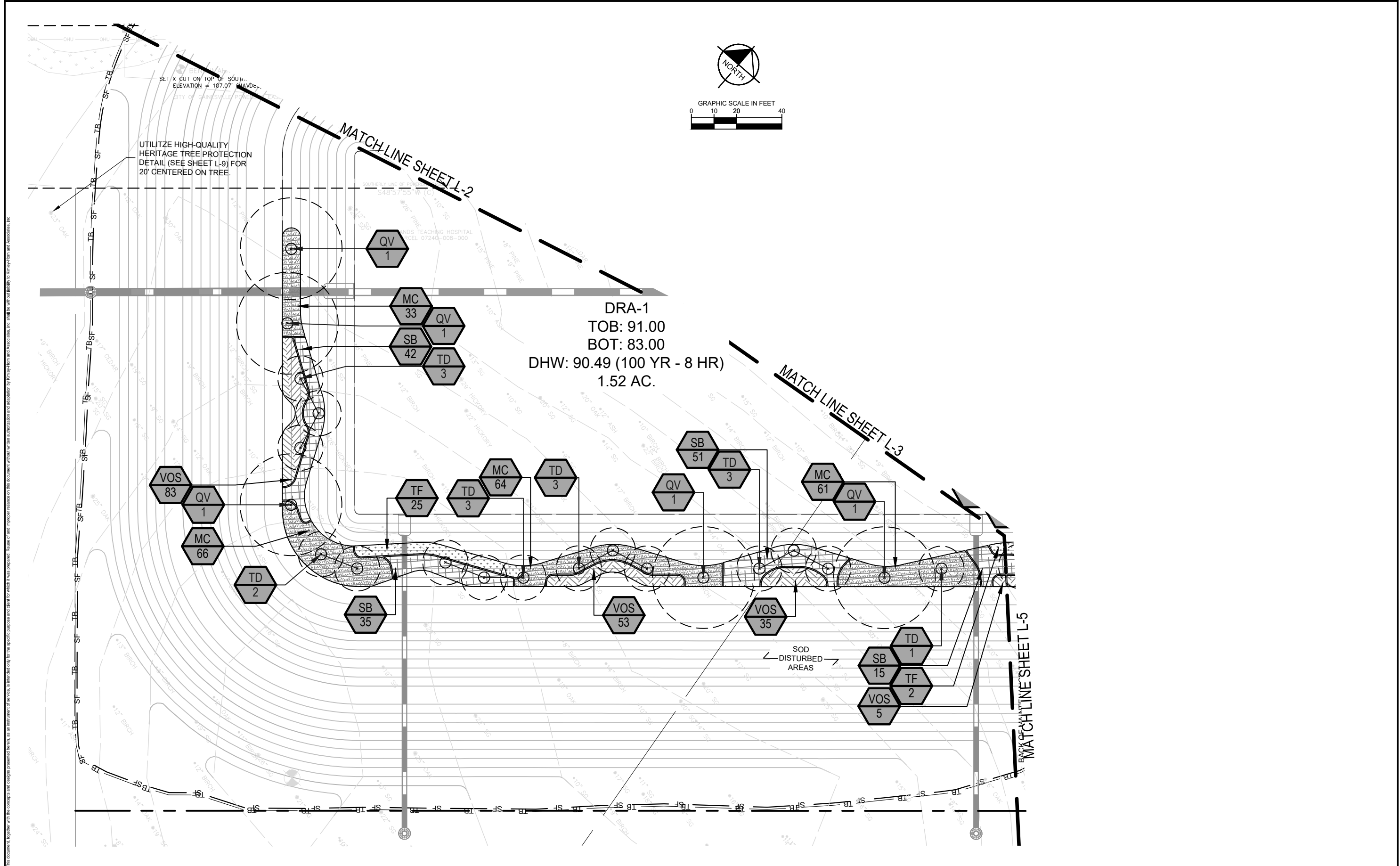
UTILITZE HIGH-QUALITY  
HERITAGE TREE PROTECTION  
DETAIL (SEE SHEET L-9) FOR  
20' CENTERED ON TREE.

MATCHLINE SHEET L-2

MATCHLINE SHEET L-3

BACKMATCHLINE SHEET L-5

DRA-1  
TOB: 91.00  
BOT: 83.00  
DHW: 90.49 (100 YR - 8 HR)  
1.52 AC.



REVISIONS	
DATE	DESCRIPTION
-	NOT FOR CONSTRUCTION

DATE	JANUARY 2025
DESIGNED BY	KHA
DRAWN BY	KHA
CHECKED BY	KHA

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PHONE: 352-374-3274  
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

LICENSED PROFESSIONAL	C. ELISABETH MANLEY
	LA6666722
DATE:	

CITY OF GAINESVILLE SW 47TH AVENUE EXTENSION		
ROAD NO.	COUNTY	PROJECT NO.
	ALACHUA	142107024

LANDSCAPE PLAN	
SHEET NO. <b>L-6</b>	

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NOTE:

1. PROVIDE 6 FT. DIAMETER MINIMUM INDIVIDUAL MULCH RING AROUND EACH PROPOSED TREE WHERE TREES ARE LOCATED OUTSIDE OF PLANTING BEDS.
2. MULCH TO BE PINE STRAW, FREE OF DEBRIS, STICKS, AND CONES. PROVIDE A THICKNESS OF MULCH AS PER PLANTING DETAILS AND AS MEASURED ONCE MULCH IS SETTLED. THE FINISH LEVEL OF MULCH SHOULD MEET ADJACENT FINISH GRADES. MULCH AREAS BETWEEN GROUND COVER PLANTS.
3. REMOVE ALL CONSTRUCTION DEBRIS, LIMEROCK, GRAVEL, ROAD BASE, LITTER, AND OTHER ITEMS POTENTIALLY DAMAGING TO PLANT GROWTH WITHIN PROPOSED LANDSCAPE AND TURF AREAS PRIOR TO PLANTING. ENSURE PLANTING AREA IS WELL-DRAINING AND CONSISTS OF AN UNCOMPACTED SANDY LOAM WITH pH 5.5-6.5. IF IMPORT FILL IS REQUIRED, MEET THESE REQUIREMENTS AND EXCAVATE FROM LOCAL SOURCES AND DEEP PITS SUCH THAT IT IS FREE OF WEEDS, SEEDS, LITTER, TOXINS, AND OTHER ITEMS HARMFUL TO PLANTINGS. MAINTAIN EXISTING GRADES UNLESS OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE.
4. LOCATE ALL ABOVE AND UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF WORK. CALL SUNSHINE STATE ONE CALL - SEE LOGO BELOW.
5. ALL PLANT MATERIALS SHALL MEET 'FLORIDA NUMBER 1' REQUIREMENTS AS PER THE MOST CURRENT EDITION OF 'FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS', FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.
6. ALL UNPAVED AND DISTURBED AREAS WITHIN THE RIGHT OF WAY AND OUTSIDE OF PROPOSED TREE, SHRUB, AND GROUND COVER PLANTINGS SHALL BE SODDED. SOD SHALL BE SAND-GROWN, STRONGLY ROOTED, WITHOUT SYNTHETIC STABILIZING MATERIALS, FREE OF PESTS, AND CERTIFIED FREE OF NOXIOUS WEEDS BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, DIVISION OF PLANT INDUSTRY.
7. IRRIGATION: WATER ALL MATERIAL THOROUGHLY FOLLOWING INSTALLATION AND THROUGH ESTABLISHMENT AND/OR FINAL ACCEPTANCE. IRRIGATION METHODS SHALL MEET ALACHUA COUNTY AND WATER MANAGEMENT DISTRICT REQUIREMENTS FOR IRRIGATION. SUBMIT WATERING METHOD, WATERING SCHEDULE DURING CONSTRUCTION AND DURING PLANT ESTABLISHMENT, AND TEMPORARY IRRIGATION DESIGN IF APPLICABLE TO THE PUBLIC WORKS REPRESENTATIVE FOR APPROVAL DURING BIDDING. INCLUDE ALL WATERING COSTS FOR THE DURATION OF CONSTRUCTION AND THE ESTABLISHMENT PERIOD WITHIN BID, INCLUDING EQUIPMENT RENTAL, ACCESS NEEDS, AND PERMIT COSTS, IF APPLICABLE. WATERING SHALL BE TO A VOLUME AND AT A FREQUENCY AS TO SUPPORT PLANTS AND TURF IN A THRIVING STATE IMMEDIATELY FOLLOWING PLANT AND TURF INSTALLATION AND THROUGH THE PLANT ESTABLISHMENT PERIOD. WATER TREES PER THE 'IRRIGATION SCHEDULE FOR VITALITY' GUIDELINES WITHIN THE MOST CURRENT EDITION OF 'FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS' (SEE BELOW) OR AS OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE. IF A TEMPORARY IRRIGATION SYSTEM OR APPLICATION IS USED, UTILIZE POTABLE WATER UNLESS OTHERWISE INDICATED. CONFIRM WATERING ACCESS PROCEDURES AND GAIN APPROVAL FROM OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING. IF A PERMANENT IRRIGATION SYSTEM IS PROPOSED, ADHERE TO THE FOLLOWING:
  - 7.a. MEET LOCAL AGENCY REQUIREMENTS REGARDING PERMITTING, DESIGN, WATER SOURCE, AND WATERING VOLUME AND FREQUENCY. CONTRACTOR RESPONSIBLE FOR PERMITTING PROCESS AND PERMIT FEES, IF APPLICABLE.
  - 7.b. UTILIZE RECLAIMED WATER AS THE IRRIGATION SOURCE IF

- AVAILABLE. IF NOT, UTILIZE MUNICIPAL POTABLE OR INSTALL A WELL. PERMIT THE WELL PER STATE AND LOCAL REGULATIONS.
- 7.c. INSTALL AN IRRIGATION METER AND BACKFLOW PREVENTER AT THE POINT OF CONNECTION.
  - 7.d. INCLUDE SYSTEM ISOLATION VALVE FOLLOWING BACKFLOW PREVENTER.
  - 7.e. PROVIDE HEAD-TO-HEAD IRRIGATION COVERAGE OF IRRIGATED AREAS.
  - 7.f. SEPARATE TURF, SHRUB & GROUND COVER, AND TREE ZONES. DO NOT MIX ROTORS ON THE SAME ZONES AS DRIP OR SPRAYHEADS.
  - 7.g. DO NOT ALLOW IRRIGATION OVERSPRAY ONTO ADJACENT PAVED AREAS OR BUILDING FACADES.
  - 7.h. INSTALL BATTERY-POWERED OR ELECTRIC-POWERED CONTROLLER. MOUNT CONTROLLER ON STRUCTURE ONLY IF PERMISSIBLE BY CLIENT. IF NOT, INSTALL IN A LOCKABLE PEDESTAL. PROVIDE ELECTRICAL SERVICE FOR THE CONTROLLER.
  - 7.i. CHECK IF LOCAL REGULATIONS MAY ALSO REQUIRE SOIL MOISTURE SENSORS. IF SO, INSTALL.
  - 7.j. INCLUDE A WEATHER GAUGE TO SHUT THE SYSTEM OFF IN CASE OF RAIN OR FREEZING.
  - 7.k. SPRAYHEADS SHALL BE PRESSURE-REGULATED.
  - 7.l. MAINLINE TO BE SCHEDULE 40 PVC PIPE AND BURIED 24" MINIMUM.
  - 7.m. SLEEVES TO BE TWICE THE SIZE OF THE PIPE ROUTED THROUGH IT, SCHEDULE 40 PVC PIPE, AND BURIED 24" MINIMUM.
  - 7.n. LATERAL ZONE PIPE TO BE CLASS 200 (SDR21) PVC AND BURIED 18" MINIMUM.
  - 7.o. USE #14 AWG WIRE FOR THE SYSTEM.
  - 7.p. INSTALL ALL ELECTRIC ZONE VALVES IN THEIR OWN LOCKABLE VALVE BOXED WITH ZONE NUMBER INDICATED.
8. AREAS OF CLEAR SIGHT WERE CALCULATED BASED ON A DESIGN SPEED OF 35 MPH AND PER FDOT STANDARDS.



**KNOW WHAT'S BELOW**  
**ALWAYS CALL 811 BEFORE YOU DIG**  
*It's fast, it's free, it's the law.*

**Call 811 two business days before digging**

From 'Florida Grades and Standards for Nursery Plants 2022,' Florida Department of Agriculture and Consumer Services


**Part Four: Irrigating Tree After Planting and During Establishment**

Regular irrigation after planting is essential for survival and establishment of most trees. Establishment is the amount of time required for trees to grow a sufficient root system to support growth in their planted environment. Regular irrigation after planting encourages rapid root growth which is essential for establishment. Irrigation can help maintain and encourage a dominant leader in the tree crown on large-maturing shade trees. Trees that are under-irrigated during the establishment period can die back, and often develop, low, nearly equal trunks and double leaders that can split from the tree later.

Size of nursery stock	Irrigation schedule for vitality	Irrigation schedule for survival
< 2-inch caliper	Daily for two weeks, every other day for two months, weekly until established	Two to three times weekly for two to three months
2 - 4-inch caliper	Daily for one month, every other day for three months, weekly until established	Two to three times weekly for three to four months
> 4-inch caliper	Daily for six weeks, every other day for five months, weekly until established	Twice weekly for four to five months

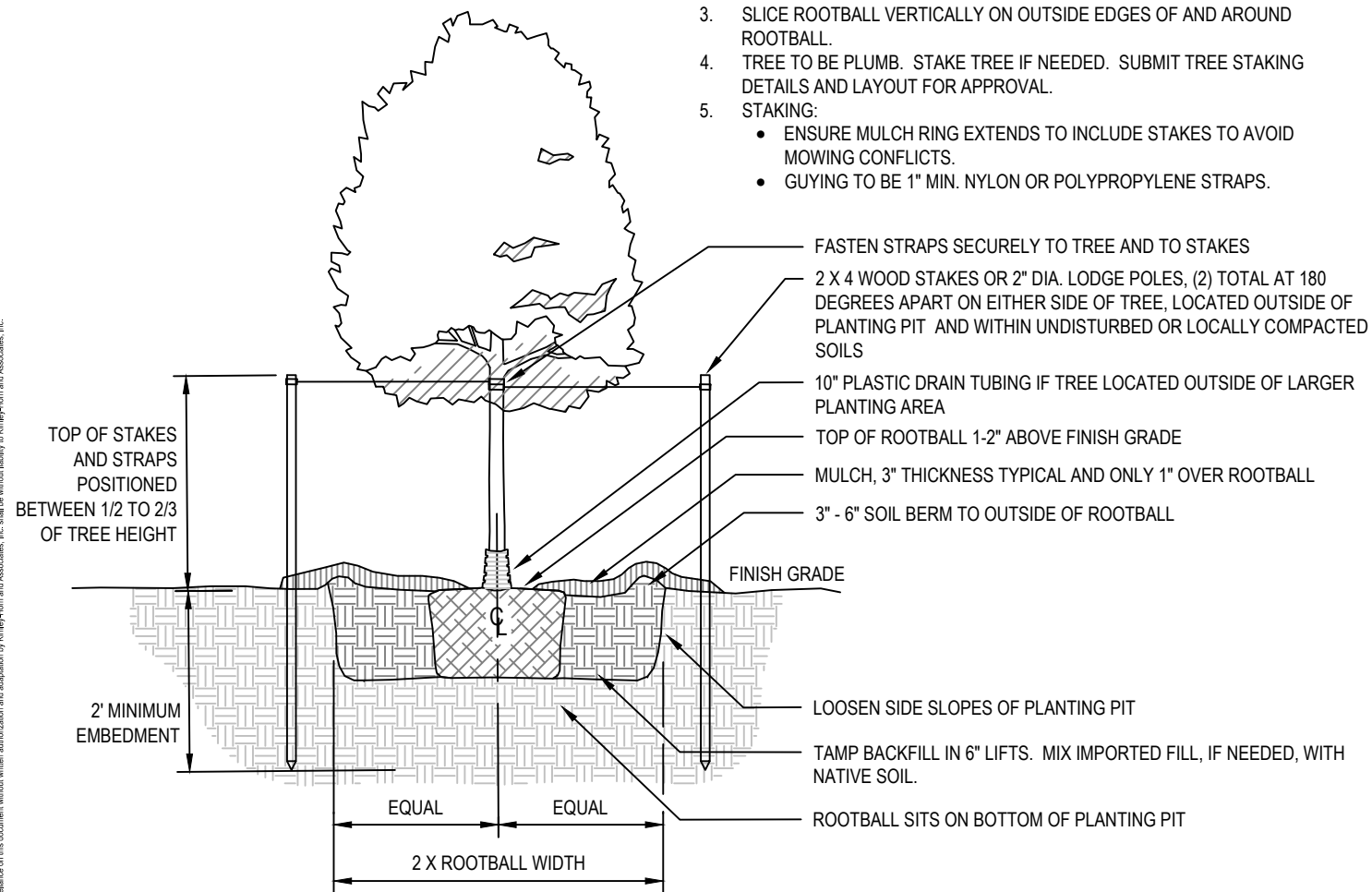
- Table notes:
1. At each irrigation, apply two to three gallons per inch trunk caliper to the root ball surface. Apply it in a manner so all water soaks the entire root ball. Do not water if root ball is saturated on the irrigation day.
  2. When irrigating for vitality, start with every other day irrigation when planting in winter or when planting in cool climates. Establishment takes three (hardiness zones 10-11) to four (hardiness zones 8-9) months per inch trunk caliper. Never apply irrigation if the soil is saturated.
  3. When irrigating for survival, trees take much longer to establish than regularly irrigated trees. Irrigation may be required in the normal hot, dry portions of the following year.
  4. These guidelines are based on the research linked at [Planting - Landscape plants - Edward F. Gilman - UF/IFAS \(ufl.edu\)](#): Beeson and Gilman 1992; Gilman et al. 1994; Gilman and Beeson 1996; Gilman et al. 1996; Gilman 2001; Gilman et al. 2002; Harris and Gilman 1993; Watson and Himelick 1982.

Figure 17.

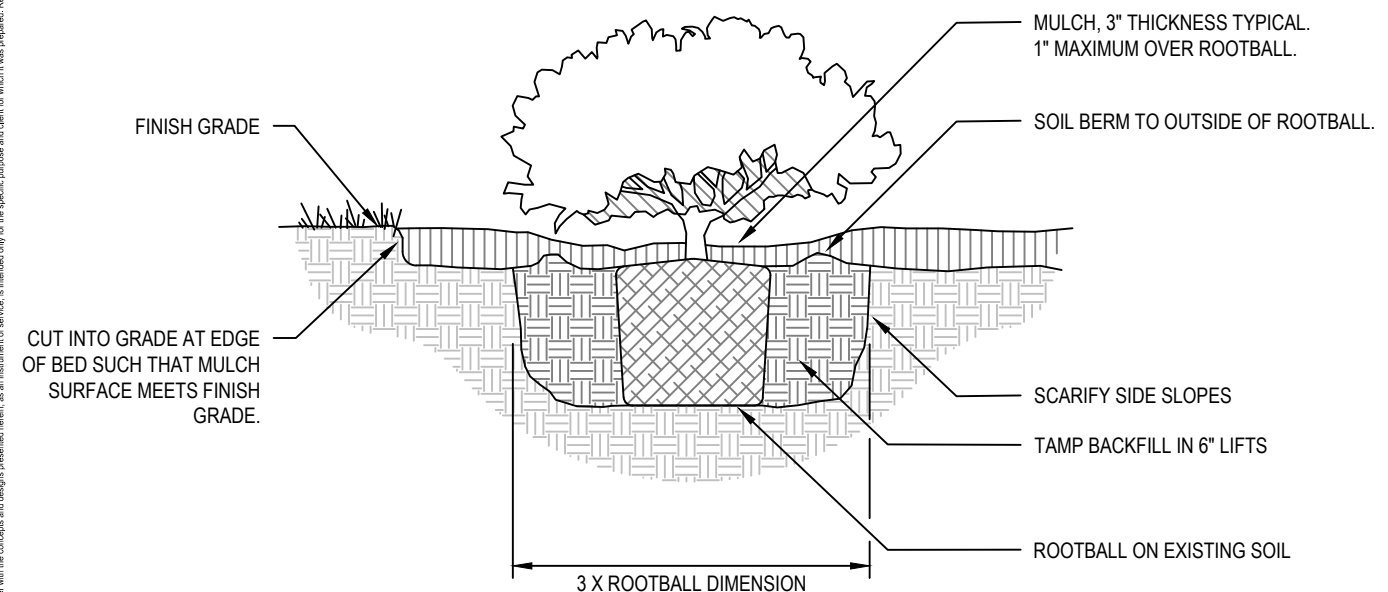
REVISIONS		DATE JANUARY 2025	 <small>© 2024 KIMLEY-HORN AND ASSOCIATES, INC.                  800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601                  PHONE: 352-374-3274                  WWW.KIMLEY-HORN.COM REGISTRY NO. 35106</small>	LICENSED PROFESSIONAL	CITY OF GAINESVILLE SW 47TH AVENUE EXTENSION			SHEET NO.  <b>L-7</b>
DATE	DESCRIPTION	DESIGNED BY KHA		C. ELISABETH MANLEY	ROAD NO.	COUNTY	PROJECT NO.	
		DRAWN BY KHA		LA6666722		ALACHUA	142107024	
		CHECKED BY KHA		DATE:				
NOT FOR CONSTRUCTION								

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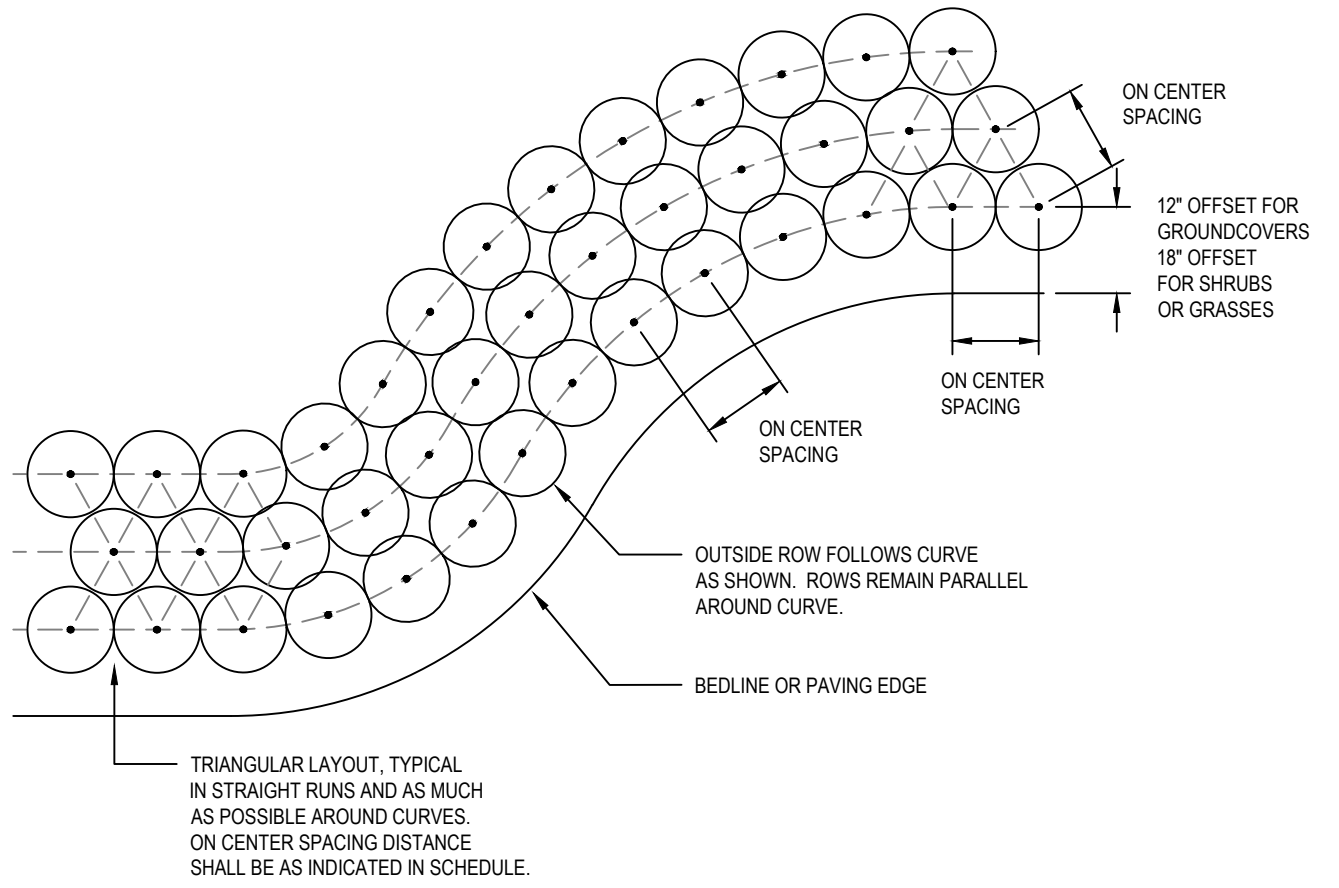
- NOTE:
1. ENSURE PLANTING PIT DRAINS WELL PRIOR TO INSTALLATION.
  2. REMOVE TREE FROM CONTAINER OR REMOVE UPPER 1/3 OF BURLAP AND WIRE MESH FOR B&B TREES.
  3. SLICE ROOTBALL VERTICALLY ON OUTSIDE EDGES OF AND AROUND ROOTBALL.
  4. TREE TO BE PLUMB. STAKE TREE IF NEEDED. SUBMIT TREE STAKING DETAILS AND LAYOUT FOR APPROVAL.
  5. STAKING:
    - ENSURE MULCH RING EXTENDS TO INCLUDE STAKES TO AVOID MOWING CONFLICTS.
    - GUYING TO BE 1" MIN. NYLON OR POLYPROPYLENE STRAPS.



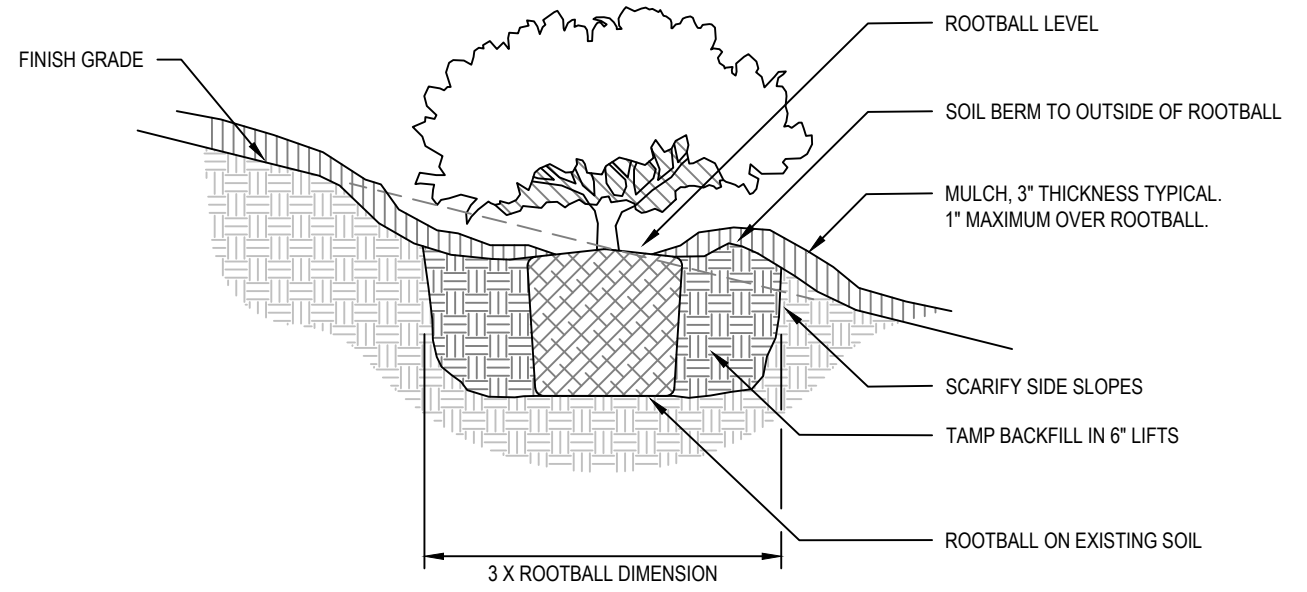
TREE PLANTING DETAIL  
N.T.S.



SHRUB AND GROUNDCOVER PLANTING, TYPICAL SECTION  
N.T.S.



SHRUB AND GROUNDCOVER PLANTING TYPICAL LAYOUT PLAN  
N.T.S.



SHRUB AND GROUNDCOVER PLANTING, PLANTING ON SLOPE SECTION  
N.T.S.

REVISIONS	
DATE	DESCRIPTION
-	NOT FOR CONSTRUCTION

DATE	JANUARY 2025
DESIGNED BY	KHA
DRAWN BY	KHA
CHECKED BY	KHA

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LICENSED PROFESSIONAL	C. ELISABETH MANLEY
	LA6666722
DATE:	

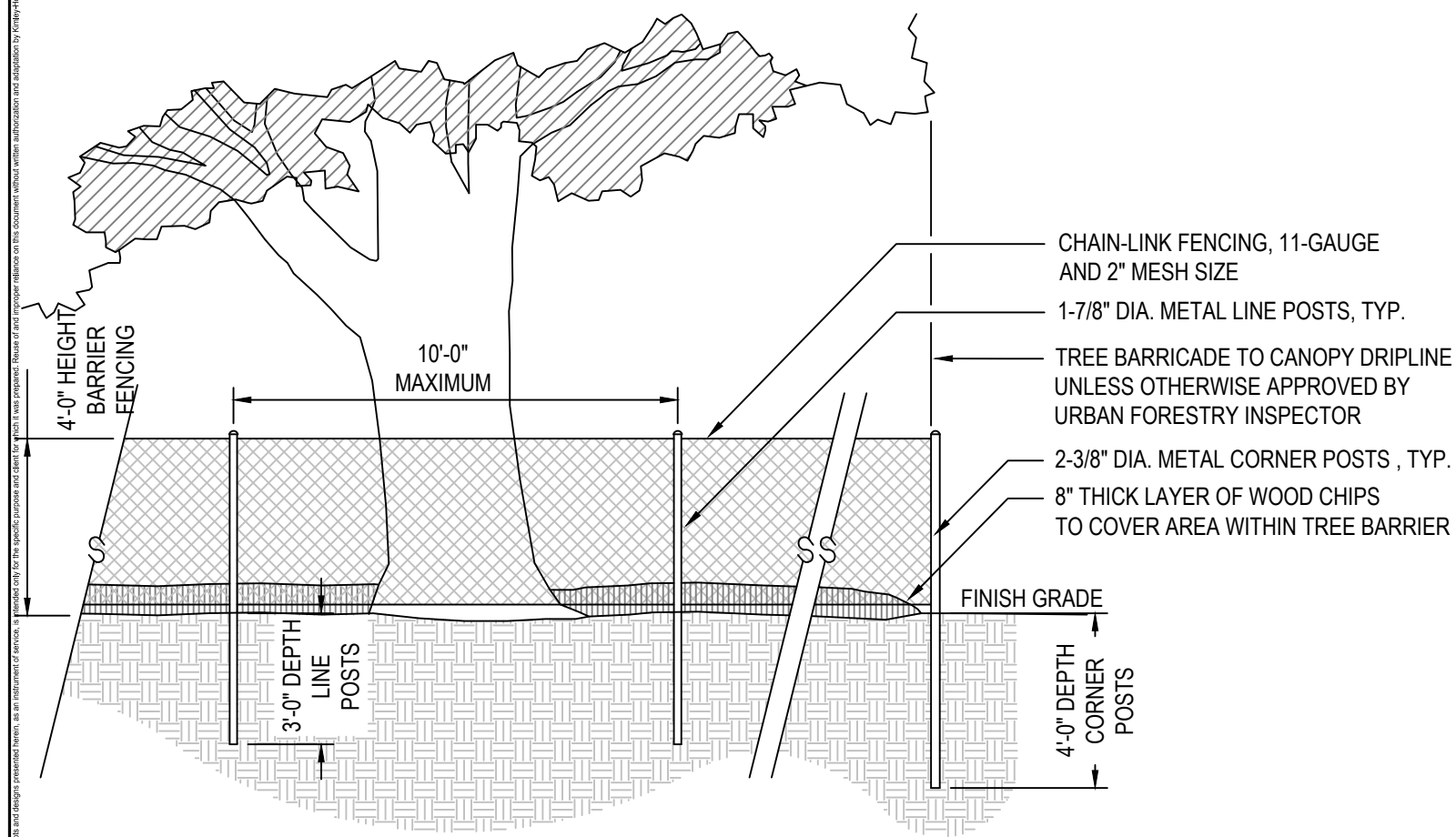
CITY OF GAINESVILLE SW 47TH AVENUE EXTENSION		
ROAD NO.	COUNTY	PROJECT NO.
	ALACHUA	142107024

LANDSCAPE DETAILS	
SHEET NO. <b>L-8</b>	

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NOTE:

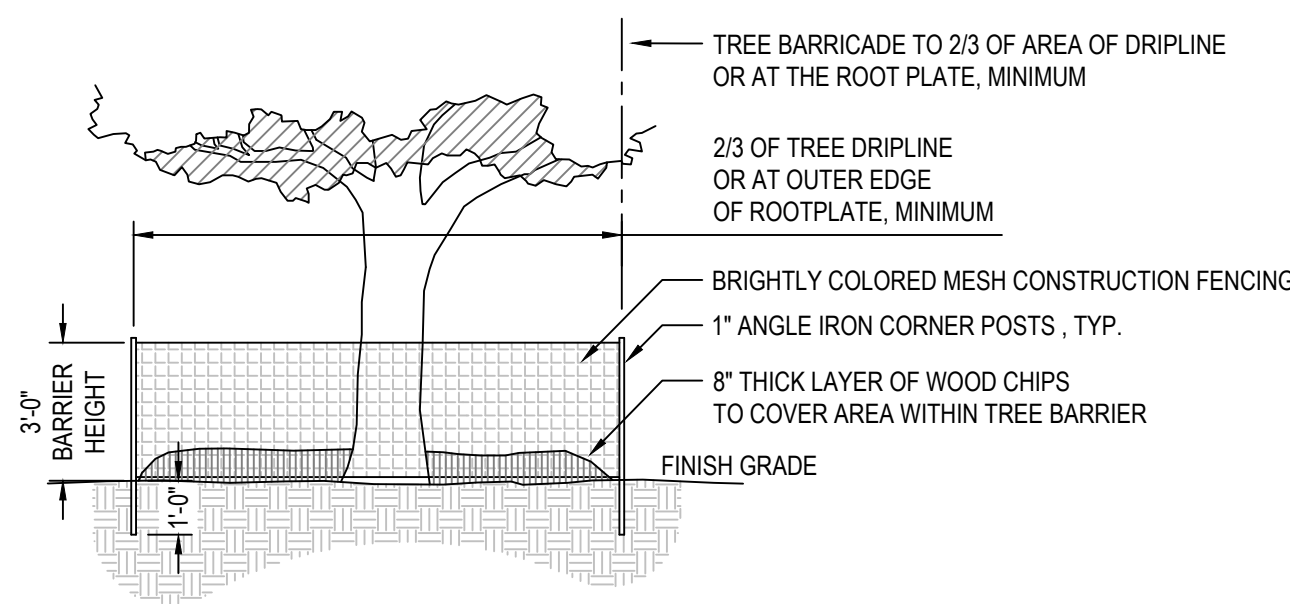
- UTILIZE THIS DETAIL FOR ALL EXISTING, HIGH QUALITY TREES THAT ARE 20" DBH AND LARGER.** HIGH QUALITY TREES ARE DEFINED BY THE CITY OF GAINESVILLE AS ANY OF THE FOLLOWING: Live Oak (*Quercus virginiana*), Sand Live Oak (*O. geminata*), Bluff Oak (*Q. austrina*), Basket Oak (*Q. michauxii*), Southern Red Oak (*Q. falcata*), Southern Magnolia (*Magnolia grandiflora*), Florida Maple (*Acer barbatum*), Longleaf Pine (*Pinus palustris*), Spruce Pine (*P. glabra*), Cedar Elm (*Ulmus crassifolia*), Winged Elm (*U. alata*), Florida Elm (*U. floridana*), Bald Cypress (*Taxodium distichum*), Pond Cypress (*T. ascendens*), Tupelo (*Nyssa sylvatica*), Mockernut Hickory (*Carya tomentosa*) Pignut Hickory (*C. glabra*), Pecan (*C. illinoensis*), Persimmon (*Diospyros virginiana*), Basswood (*Tilia Americana*), Tulip Poplar (*Liriodendron tulipifera*), White Ash (*Fraxinus Americana*), Green Ash (*F. pensylvanica*) and Yaupon, Dahoon, and American Holly species (*Ilex vomitoria*, *I. cassine*, and *I. opaca*).
- DO NOT STORE MATERIALS OR ALLOW ENCROACHMENT OF VEHICLES OR MACHINERY WITHIN TREE BARRIER AREA. NO BUILDING MATERIALS, MACHINERY OR HARMFUL CHEMICALS SHALL BE PLACED WITHIN PROTECTIVE BARRIERS, EXCEPT SHORT-DURATION PLACEMENTS OF CLEAN FILL SOIL THAT WILL NOT HARM THE TREE.
- NO GRADE CHANGES MAY OCCUR WITHIN TREE BARRIER AREA WITHOUT APPROVAL.
- LANDSCAPE PREPARATION IN THE PROTECTED AREA SHALL BE LIMITED TO SHALLOW DISCING OF THE AREA. DISCING SHALL BE LIMITED TO A DEPTH OF FOUR INCHES UNLESS SPECIFICALLY APPROVED OTHERWISE.
- TREE BARRIERS TO REMAIN IN PLACE UNTIL LANDSCAPING OPERATIONS BEGIN. ONCE REMOVED, VEHICLE AND EQUIPMENT TRAFFIC AND STORAGE OF MATERIALS WITHIN AREA SHALL BE MINIMIZED AS MUCH AS POSSIBLE.



TREE PROTECTION, HIGH-QUALITY, HERITAGE TREE

NOTE:

- UTILIZE THIS DETAIL FOR ALL EXISTING, REGULATED TREES THAT ARE LESS THAN 20" DBH OR ARE NOT A HIGH QUALITY SPECIES** (SEE DETAIL 1 FOR A LIST OF HIGH QUALITY SPECIES).
- DO NOT STORE MATERIALS OR ALLOW ENCROACHMENT OF VEHICLES OR MACHINERY WITHIN TREE BARRIER AREA. NO BUILDING MATERIALS, MACHINERY OR HARMFUL CHEMICALS SHALL BE PLACED WITHIN PROTECTIVE BARRIERS, EXCEPT SHORT-DURATION PLACEMENTS OF CLEAN FILL SOIL THAT WILL NOT HARM THE TREE.
- NO GRADE CHANGES MAY OCCUR WITHIN TREE BARRIER AREA WITHOUT APPROVAL.
- LANDSCAPE PREPARATION IN THE PROTECTED AREA SHALL BE LIMITED TO SHALLOW DISCING OF THE AREA. DISCING SHALL BE LIMITED TO A DEPTH OF FOUR INCHES UNLESS SPECIFICALLY APPROVED OTHERWISE.
- TREE BARRIERS TO REMAIN IN PLACE UNTIL LANDSCAPING OPERATIONS BEGIN. ONCE REMOVED, VEHICLE AND EQUIPMENT TRAFFIC AND STORAGE OF MATERIALS WITHIN AREA SHALL BE MINIMIZED AS MUCH AS POSSIBLE.



TREE PROTECTION, TYPICAL REGULATED TREE

REVISIONS		DATE		LICENSED PROFESSIONAL	CITY OF GAINESVILLE			<p>LANDSCAPE DETAILS</p>	SHEET NO.
DATE	DESCRIPTION	JANUARY 2025		C. ELISABETH MANLEY	SW 47TH AVENUE EXTENSION				
-	-	NOT FOR CONSTRUCTION	<p>© 2024 KIMLEY-HORN AND ASSOCIATES, INC.</p> <p>800 SW 2ND AVENUE, SUITE 100, GAINESVILLE, FL 32601</p> <p>PHONE: 352-374-3274</p> <p>WWW.KIMLEY-HORN.COM REGISTRY NO. 35106</p>	LA6666722	ROAD NO.	COUNTY	PROJECT NO.	L-9	
					ALACHUA	142107024			

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TECHNICAL SPECIFICATIONS - PLANTING, SECTION 329000

PART 1 - GENERAL

1.1 SUMMARY

- A. PROVIDE ALL LABOR, EQUIPMENT AND INCIDENTALS REQUIRED TO RENDER ALL SERVICES REQUIRED TO SUCCESSFULLY INSTALL ALL TURF AND LANDSCAPE PROPOSED WITHIN THE PROJECT AREA AS DEFINED ON PLANS.
- B. WORK WILL INCLUDE BUT IS NOT LIMITED TO PREPARATION, INSTALLATION, AND MAINTENANCE FOR PROPOSED TURF AND LANDSCAPE MATERIAL.

1.2 SUBMITTALS

- A. PROVIDE TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO ANY PLANTING ACTIVITIES. SUBMITTALS SHALL INCLUDE:
  - 1. A COPY OF CURRENT CERTIFICATE AS A CERTIFIED LANDSCAPE CONTRACTOR BY THE FLORIDA NURSERY, GROWERS, AND LANDSCAPE ASSOCIATION (FNGLA).
  - 2. A COPY OF CURRENT PEST CONTROL LICENSE (ROW, ORNAMENTAL AND/OR AQUATIC, IF APPROPRIATE)
  - 3. CERTIFICATION BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES AS A COMMERCIAL FERTILIZER APPLICATOR PER 5E-14.117(18) F.A.C.
  - 4. MANUFACTURER'S LABELS OR INFORMATION FOR ANY COMPONENTS INCORPORATED INTO THIS PROJECT, INCLUDING BUT NOT LIMITED TO FERTILIZERS, PESTICIDES, AND STAKING SYSTEMS.
  - 5. IF IMPORTED FILL IS REQUIRED TO AUGMENT EXISTING CONDITIONS FOR PLANTING, PROVIDE IMPORTED FILL AS DESCRIBED WITHIN PRODUCTS SECTION. PROVIDE A SOIL ANALYSIS THROUGH THE UNIVERSITY OF FLORIDA EXTENSION SOIL TESTING LABORATORY FOR EACH FILL SOURCE AND INCLUDING INCLUDE A WRITTEN REPORT CONTAINING SOIL-AMENDMENT AND FERTILIZER RECOMMENDATIONS FOR EACH SOURCE.
  - 6. SCHEDULE OF VALUES: PRIOR TO THE COMMENCEMENT OF THE WORK, SUBMIT INSTALLED UNIT PRICES FOR ALL PLANT MATERIALS (MULCH SHALL BE INCLUDED IN THE INSTALLED UNIT PRICING) AND SODDING. THE SCHEDULE OF VALUES SHOULD EQUAL THE TOTAL CONTRACT PRICE FOR LANDSCAPE INSTALLATION.
  - 7. TYPEWRITTEN INSTRUCTIONS PROVIDING A MAINTENANCE SCHEDULE AND ALL MAINTENANCE OPERATIONS NECESSARY TO MAINTAIN THE PLANTINGS DURING AND FOLLOWING INSTALLATION, AS SPECIFIED BELOW.
  - 8. WRITTEN WARRANTIES AS SPECIFIED BELOW.
  - 9. RECORD DRAWINGS: FURNISH ONE SET OF RECORD DRAWINGS THAT CLEARLY SHOW ALL CHANGES MADE TO THE ORIGINAL CONTRACT DRAWINGS DURING THE COURSE OF THE WORK. DRAWINGS SHALL BE PROVIDED IN PDF FILE FORMAT AND TO BE FULLY LEGIBLE AND TO SCALE.

1.3 QUALITY CONTROL

- A. ALL WORK SHALL BE PERFORMED BY A FNGLA CERTIFIED LANDSCAPE CONTRACTOR (FCLC) WHO HAS COMPLETED LANDSCAPE WORK SIMILAR IN SCOPE, MATERIAL, DESIGN, AND EXTENT TO THAT AS INDICATED FOR THIS PROJECT AND WITH A RECORD OF SUCCESSFUL TREE AND SHRUB ESTABLISHMENT. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN FCLC CERTIFICATION UNDER FNGLA.
- B. PRUNING AND TRIMMING, IF REQUIRED, SHALL BE PERFORMED BY A CERTIFIED ARBORIST, AS CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA).
- C. ALL PLANT MATERIAL TO COMPLY WITH 'FLORIDA #1' GRADE QUALITY STANDARD AS DEFINED AND SPECIFIED WITHIN THE LATEST EDITION OF THE 'FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS' PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, DIVISION OF PLANT INDUSTRIES. PROVIDE HEALTHY, VIGOROUS STOCK GROWN IN A RECOGNIZED NURSERY IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES AND FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN-SCALED, INJURIES, ABRASIONS, OR DISFIGUREMENT.
- D. UNSATISFACTORY OR DEFECTIVE MATERIAL MAY BE REJECTED AT ANY TIME, AND REJECTED MATERIAL SHALL BE REMOVED IMMEDIATELY FROM THE PROJECT SITE.
- E. CONTRACTOR SHALL MAINTAIN AND EXPERIENCED, FULL-TIME SUPERVISOR ON THE PROJECT SITE DURING ALL PLANTING ACTIVITIES.
- F. SUBSTITUTIONS WILL NOT BE ACCEPTED UNLESS PROOF OF NON-AVAILABILITY OR EVIDENCE OF 'EQUAL' STATUS IS DEMONSTRATED PRIOR TO ORDERING AND/OR INSTALLATION. CONTRACTOR TO SUBMIT A SUBSTITUTION REQUEST TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO ORDERING, DELIVERY, OR INSTALLATION OF MATERIAL. THE SUBSTITUTION REQUEST SHALL IDENTIFY THE ISSUE WITH THE SPECIFIED MATERIAL AND PROPOSE ALTERNATIVE, EQUAL MATERIAL(S). INFORMATION TO BE PROVIDED REGARDING ALTERNATIVE MATERIALS SHALL INCLUDE SCIENTIFIC NAME, COMMON NAME, SIZE, AND SOURCE.
- G. PACKAGE STANDARD PRODUCTS WITH MANUFACTURER'S CERTIFIED ANALYSIS OR ANALYSIS BY RECOGNIZED LABORATORY.

1.4 CONTRACTOR REQUIREMENTS

- A. PROVIDE ALL EQUIPMENT, MATERIALS AND LABOR NECESSARY FOR COMPLETION OF WORK AND MAINTENANCE.
- B. OBTAIN ALL NECESSARY PERMITS, LICENSES, AND NOTIFICATIONS AND PAY FEES NECESSARY FOR COMPLETION OF THE WORK.
- C. COMPLY WITH ALL APPLICABLE CODES.
- D. COORDINATE WITH OTHER TRADES WORKING ON THE PROJECT DURING PLANTING ACTIVITIES.
- E. COORDINATION SHALL OCCUR WITH OTHER CONTRACTORS OR PROJECTS OCCURRING OFF SITE IF NECESSARY.
- F. IDENTIFY AND VERIFY THE LOCATION OF ALL UTILITIES WITHIN PROPOSED PLANTING AREAS. CONTRACTOR TO CONTACT SUNSHINE STATE ONE CALL OF FLORIDA, INC. AS REQUIRED BY CHAPTER 556 OF FLORIDA STATUTES PRIOR TO ANY EXCAVATION OR PLANTING ACTIVITIES.
- G. PROVIDE SAFE STORAGE FOR ALL EQUIPMENT AND MATERIALS. STORAGE OF SUCH ITEMS IS AT THE CONTRACTOR'S RISK.
- H. REPAIR, AT NO COST TO THE OWNER, ANY DAMAGE OCCURRING DUE TO CONTRACTOR NEGLIGENCE TO EXISTING UTILITIES, STRUCTURES, FURNISHINGS, HARDSCAPE, LANDSCAPE, OR OTHER ELEMENTS TO REMAIN. ANY DAMAGED WORK SHALL BE REPAIRED AS PER PLANS, OTHER SPECIFICATIONS SECTIONS, OR AS INSTRUCTED BY THE OWNER'S REPRESENTATIVE.
- I. MAINTENANCE DURING INSTALLATION AND UNTIL FINAL ACCEPTANCE.

1.5 WARRANTY

- A. EXISTING LANDSCAPE AND VEGETATION
  - 1. ALL EXISTING LANDSCAPE AND TURF TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION ACTIVITIES.
- B. NEW PLANTS
  - 1. WARRANTY SHRUBS AND GROUND COVER FOR A PERIOD OF TWELVE (12) MONTHS AFTER DATE OF SUBSTANTIAL COMPLETION AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR THAT WHICH IS A RESULT OF NEGLIGENCE BY OWNER, ABUSE, DAMAGE BY OTHERS, OR UNUSUAL PHENOMENA OR INCIDENTS WHICH ARE BEYOND THE CONTRACTOR'S CONTROL.
  - 2. REMOVE AND REPLACE ANY LANDSCAPE MATERIAL FOUND TO BE DEAD OR IN UNHEALTHY CONDITION DURING WARRANTY PERIOD.
- B. NEW SOD
  - 1. WARRANTY ALL GRASS FOR A PERIOD OF SIX (6) MONTHS AFTER SUBSTANTIAL COMPLETION AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH, AS DETERMINED BY THE OWNER'S REPRESENTATIVE, EXCEPT FOR DEFECTS RESULTING FROM NEGLIGENCE BY THE OWNER, ABUSE OR DAMAGE BY OTHERS, OR THE UNUSUAL PHENOMENA OR INCIDENTS, WHICH ARE BEYOND THE CONTRACTOR'S CONTROL.
  - 2. REMOVE AND REPLACE ALL TURF FOUND TO BE DEAD OR IN AN UNHEALTHY CONDITION DURING WARRANTY PERIOD AS DETERMINED BY THE OWNER'S REPRESENTATIVE.
- C. REPAIR GRADES, LAWN AREAS, PAVING, AND ANY OTHER DAMAGE RESULTING FROM REPLACEMENT PLANTING OPERATIONS, AT NO ADDITIONAL COST TO OWNER.
- D. IF ANY PLANTS ARE REPLACED DURING THE WARRANTY PERIOD, THEN THE REPLACEMENT MATERIAL SHALL ALSO BE WARRANTED FOR THE SAME PERIOD AS LISTED FOR NEW MATERIAL, ABOVE, FROM THE DATE OF REPLACEMENT. ONLY ONE REPLACEMENT WILL BE REQUIRED EXCEPT FOR LOSSES OR REPLACEMENTS DUE TO FAILURE TO COMPLY WITH SPECIFIED REQUIREMENTS.
- E. A FINAL INSPECTION MAY BE MADE AT THE END OF THE WARRANTY PERIOD TO DETERMINE ACCEPTANCE OR REJECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE OWNER, IN WRITING, THIRTY (30) DAYS PRIOR TO THE END OF THE WARRANTY PERIOD, AT WHICH TIME THE OWNER HAS THE OPTION TO PERFORM AN END OF WARRANTY INSPECTION. FAILURE TO NOTIFY THE OWNER OF THE END DATE OF THE WARRANTY PERIOD SHALL CAUSE THE WARRANTY PERIOD TO EXTEND UNTIL SUCH TIME AS THE CONTRACTOR GIVES THE OWNER THE REQUIRED 30 DAYS' NOTICE.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. PACKAGED MATERIALS: DELIVER PACKAGED MATERIALS IN CONTAINERS SHOWING WEIGHT, CERTIFIED ANALYSIS, AND NAME OF MANUFACTURER. PROTECT MATERIALS FROM DETERIORATION DURING DELIVERY AND WHILE STORED AT SITE.
- B. SOD: TIME DELIVERY SO THAT SOD WILL BE PLACED WITHIN 24 HOURS AFTER STRIPPING. PROTECT SOD AGAINST DRYING AND BREAKING OF ROLLED STRIPS.
- C. PLANTS: DO NOT PRUNE PRIOR TO DELIVERY UNLESS OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE. DO NOT BEND OR BIND-TIE SHRUBS IN SUCH A MANNER AS TO DAMAGE BARK, BREAK BRANCHES, OR DESTROY NATURAL SHAPE. PROVIDE PROTECTIVE COVERING DURING DELIVERY. DELIVER PLANTS AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED AND PLANT IMMEDIATELY. IF PLANTING IS DELAYED MORE THAN SIX (6) HOURS AFTER DELIVERY, SET PLANTS IN SHADE, PROTECT FROM WEATHER AND MECHANICAL DAMAGE, AND KEEP ROOTS MOIST BY COVERING WITH MULCH, BURLAP OR OTHER ACCEPTABLE MEANS OF RETAINING MOISTURE. DO NOT REMOVE CONTAINER-GROWN STOCK FROM CONTAINERS UNTIL PLANTING TIME. HANDLE PLANT MATERIALS BY ROOTBALL.

1.7 PROJECT CONDITIONS

- A. COORDINATE AND COOPERATE WITH OTHER TRADES TO ENABLE WORK TO PROCEED AS RAPIDLY AND EFFICIENTLY AS POSSIBLE.
- B. IF WEATHER CONDITIONS DETRIMENTAL TO PLANTING ARE ENCOUNTERED OR ANTICIPATED, NOTIFY THE OWNER'S REPRESENTATIVE OR OWNER'S REPRESENTATIVE PRIOR TO PLANTING. PLANTING SHALL NOT OCCUR DURING PERIODS OF OR WITHIN 48 HOURS OF PREDICTED TEMPERATURES LESS THAN 32 F.
- C. WHEN CONDITIONS DETRIMENTAL TO PLANT GROWTH ARE ENCOUNTERED OR ANTICIPATED, INCLUDING BUT NOT LIMITED TO LIMESTONE, ROAD BASE, RUBBLE FILL, ADVERSE DRAINAGE CONDITIONS, OBSTRUCTIONS, OR TOXIC MATERIALS, NOTIFY THE OWNER'S REPRESENTATIVE OR OWNER'S REPRESENTATIVE PRIOR TO PLANTING.
- D. MAINTAIN GRADE STAKES SET BY OTHERS UNTIL REMOVAL IS MUTUALLY AGREED UPON BY PARTIES CONCERNED.
- E. DETERMINE LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF WORK. CALL SUNSHINE STATE ONE CALL, 811. PERFORM WORK IN A MANNER THAT AVOIDS POSSIBLE DAMAGE. HAND EXCAVATE AS REQUIRED.

PART 2 - PRODUCTS

2.1 FILL

- A. IF REQUIRED TO AUGMENT EXISTING SOILS FOR LANDSCAPE AND TURF INSTALLATION, PROVIDE NEW, DEEP FILL MATERIAL AS PER USDA STANDARD TEXTURES AND THAT IS TAKEN FROM WELL-DRAINING LOCAL SOURCES WITH SIMILAR SOIL TYPES AS FOUND AT THE PROJECT SITE.
- B. FILL TO BE SUITABLE FOR PLANT GROWTH, FRIABLE, AND FREE OF CLAY LUMPS, BRUSH, WEEDS, SEEDS, ROOTS, STUMPS, STONES, ORGANIC MUCK, HARD PAN CLAY, LITTER AND CONSTRUCTION DEBRIS INCLUDING LIMEROCK OR PAVING BASE MATERIAL, ASPHALT, AND CONCRETE, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH
- C. FILL TO BE OF PH 5-6.5.

2.2 MULCH

- A. MULCH SHALL BE AS INDICATED IN NOTES OR THE PLANT SCHEDULE AND TO BE FREE OF BRANCHES, CONES, AND DEBRIS.

2.3 COMMERCIAL FERTILIZER

- A. FERTILIZER TYPE AND APPLICATION TIMING AND METHODS SHALL MEET ALACHUA COUNTY 'FERTILIZER STANDARDS AND MANAGEMENT PRACTICES', LDR ARTICLE IV., REQUIREMENTS. DO NOT APPLY FERTILIZER FROM JULY - FEBRUARY. APPLY FERTILIZER EITHER DURING THE PROJECT'S INSTALLATION OR DURING THE ESTABLISHMENT PERIOD, DEPENDING ON WHICH IS POSSIBLE RELATIVE TO THIS TIME PERIOD. IF IT IS ANTICIPATED THAT THE PROJECT WILL BE COMPLETED OUTSIDE OF THE SPECIFIED FERTILIZING WINDOW AND THAT FERTILIZING WON'T BE POSSIBLE, DISCUSS WITH THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- B. FERTILIZER MAY ONLY BE APPLIED WITHIN 10 FT. FROM ANY WETLAND OR BODY OF WATER FOR A PERIOD OF 90 DAYS FOLLOWING PLANTING. FOLLOWING THAT TIME PERIOD, FERTILIZING IN THIS AREA IS NOT ALLOWED.
- C. FERTILIZERS APPLIED TO TURF AND/OR LANDSCAPE PLANTS SHALL BE FORMULATED AND APPLIED IN ACCORDANCE WITH DIRECTIONS PROVIDED BY RULE 5E-1.003, FLORIDA ADMINISTRATIVE CODE, LABELING REQUIREMENTS FOR URBAN TURF FERTILIZERS.
  - C.1. NITROGEN OR PHOSPHORUS FERTILIZER SHALL NOT BE APPLIED TO TURF OR LANDSCAPE PLANTS EXCEPT AS ALLOWED BY THIS RULE OR IF WITHIN UF/IFAS RECOMMENDATIONS FOR LANDSCAPE PLANTS, VEGETABLE GARDENS, AND FRUIT TREES AND SHRUBS, UNLESS A SOIL OR TISSUE DEFICIENCY HAS BEEN VERIFIED BY AN APPROVED TEST.
  - C.2. NO FERTILIZER CONTAINING PHOSPHORUS SHALL BE APPLIED TO TURF, SOD, LAWNS, OR LANDSCAPE PLANTS UNLESS A SOIL OR PLANT TISSUE DEFICIENCY IS VERIFIED BY A TESTING METHODOLOGY APPROVED BY THE UNIVERSITY OF FLORIDA, INSTITUTE OF FOOD AND AGRICULTURAL SCIENCES. IF A DEFICIENCY IS VERIFIED, THE APPLICATION OF FERTILIZER CONTAINING PHOSPHOROUS MUST ADHERE TO THE RATES AND DIRECTION FOR THE APPROPRIATE REGION OF FLORIDA, AS ADOPTED BY THE FLORIDA ADMINISTRATIVE CODE RULE.
  - C.3. FERTILIZERS CONTAINING NITROGEN APPLIED TO TURF OR LANDSCAPING PLANTS MUST CONTAIN NO LESS THAN 50 PERCENT SLOW RELEASE NITROGEN PER GUARANTEED ANALYSIS LABEL.
- D. SHRUBS AND GROUNDCOVERS: IF PERMISSABLE BY SECTION C. ABOVE, UTILIZE A ROOT STARTER OR EQUIVALENT SLOW RELEASE FERTILIZER TO ENCOURAGE ROOT GROWTH. APPLY AT MANUFACTURER'S RECOMMENDED RATE. ROOT STARTER SHALL BE A COMPLETE, SLOW RELEASE FERTILIZER WITH ORGANIC NITROGEN AND CONTAIN THE FOLLOWING PERCENTAGES OF AVAILABLE PLANT NUTRIENTS:
  - D.1. BETWEEN 5-6% TOTAL NITROGEN (N) CONSISTING OF 3.5-4.5% WATER INSOLUBLE/SLOW RELEASE NITROGEN AND 1.5% WATER SOLUBLE NITROGEN
  - D.2. BETWEEN 1-2% PHOSPHATE (P2O5)
  - D.3. BETWEEN 0.5-3% POTASH/POTASSIUM (K)
- E. TURF: IF PERMISSABLE BY SECTION C. ABOVE, PROVIDE FERTILIZER WITH NOT LESS THAN SIXTEEN (16) PERCENT TOTAL NITROGEN, FOUR (4) PERCENT AVAILABLE PHOSPHORIC ACID AND EIGHT (8) PERCENT SOLUBLE POTASH. APPLY AT MANUFACTURER'S RECOMMENDED RATE.

2.4 PLANT MATERIALS

- A. PROVIDE SHRUBS AND GROUNDCOVERS OF SIZE, GENUS, SPECIES, AND VARIETY AS SHOWN IN THE PLANT SCHEDULE FOR LANDSCAPE WORK THAT CONFORM TO FLORIDA NO. 1 QUALITY STANDARDS.
- B. PROVIDE HEALTHY, VIGOROUS STOCK GROWN IN A RECOGNIZED NURSERY IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES AND FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN-SCALED, INJURIES, ABRASIONS, OR DISFIGUREMENT.
- C. LANDSCAPE MATERIAL SHALL BE CONTAINER GROWN MATERIAL UNLESS OTHERWISE SPECIFIED OR UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE.


2.5 SOD

- A. PROVIDE SAND-GROWN ONLY, STRONGLY ROOTED SOD, NOT LESS THAN TWO YEARS OLD, FREE OF WEEDS AND UNDESIRABLE NATIVE GRASSES, AND MACHINE CUT TO PAD THICKNESS OF 3/4 INCH (PLUS OR MINUS 1/4 INCH), EXCLUDING TOP GROWTH AND THATCH. PROVIDE ONLY SOD CAPABLE OF VIGOROUS GROWTH AND DEVELOPMENT WHEN PLANTED. SOD SHALL BE VIABLE AND NOT DORMANT.
- B. PROVIDE SOD OF UNIFORM PAD SIZES WITH A MAXIMUM 5% DEVIATION IN EITHER LENGTH OR WIDTH. BROKEN PADS OR PADS WITH UNEVEN ENDS WILL NOT BE ACCEPTABLE. SOD PADS INCAPABLE OF SUPPORTING THEIR OWN WEIGHT WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON UPPER 10 PERCENT OF PAD WILL BE REJECTED.
- C. STABILIZING NETTING OR OTHER SYNTHETIC MATERIALS WITHIN SOD SHALL BE PROHIBITED.
- D. SOD TO BE AS LISTED WITHIN THE PLANT SCHEDULE.
- E. REFER TO CIVIL PLANS FOR SOD TYPE AND INSTALLATION METHODS WITHIN STORMWATER FACILITIES.

2.6 WEED PRE-EMERGENT HERBICIDE

- A. IF APPROVED BY OWNER, APPLY 'RON STAR G' PRE-EMERGENT HERBICIDE, OR APPROVED EQUAL IN PLANTING AREAS.

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TECHNICAL SPECIFICATIONS - PLANTING, SECTION 329000, CONTINUED

PART 3 - EXECUTION

3.1 PREPARATION

- A. CONDUCT A PRE-CONSTRUCTION CONFERENCE ON SITE WITH THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK. DISCUSS PROPOSED ACTIVITIES, REVIEW PROPOSED PLANTING AREAS, AND CONFIRM PROPOSED SCHEDULE OF WORK. PROVIDE ONE WEEK'S NOTICE OF PROPOSED CONFERENCE.
- B. ENSURE ALL ASPHALT, LIMEROCK, AND OTHER CONSTRUCTION DEBRIS ARE REMOVED FROM AREAS OF PROPOSED PLANTING OR SODDING TO A MINIMUM DEPTH OF THREE FEET PRIOR TO INSTALLATION.
- C. CLEAN EXISTING SOIL OF ROOTS, PLANTS, SODS, STONES, CLAY, LUMPS AND OTHER EXTRANEIOUS MATERIALS HARMFUL OR TOXIC TO PLANT GROWTH.
- D. PLANTING DEPTH OF SOIL SHALL BE A MINIMUM OF THREE (3) FEET. IF FILL MUST BE ADDED, IT SHALL CONFORM TO THE REQUIREMENTS LISTED ABOVE.
- E. PLANTING AREAS SHALL NOT BE COMPACTED.
- F. PLANTING AREAS SHALL BE WELL-DRAINING. IF SATURATED OR WET CONDITIONS EXIST IN PROPOSED PLANTING AREAS OR WITHIN PLANTING HOLES, DO NOT PLANT MATERIAL AND CONTACT LANDSCAPE ARCHITECT FOR DIRECTION.
- G. GAIN APPROVAL FROM OWNER PRIOR TO WORK FOR REMOVAL OF EXISTING GRASS, VEGETATION, AND TURF BY METHODS OTHER THAN HAND REMOVAL. IF APPROVED, SPRAY AREAS WITH "ROUND-UP" OR OTHER APPROPRIATE HERBICIDE AND PERFORM ADDITIONAL SPRAY TREATMENTS AS NEEDED TO ENSURE A COMPLETE KILL. REMOVE AND DISPOSE OF RESULTING DEAD VEGETATION AND TURF. DO NOT TURN RESULTING DEAD VEGETATION OR TURF OVER INTO SOIL. REPEAT IF NECESSARY TO REMOVE EXISTING VEGETATION.
- H. FOR TURF AREAS INDICATED FOR RENOVATION, MECHANICALLY CUT OUT AREAS OF FAILING TURF AND CREATE A CLEAN EDGE FOR NEW SOD INSTALLATION.
- I. FINE GRADE PROPOSED PLANTING AND SOD AREAS TO SMOOTH, EVEN SURFACES WITH LOOSE, UNIFORMLY FINE TEXTURE AND FREE OF LUMPS, CLOUDS, STONES, ROOTS, AND OTHER EXTRANEIOUS MATTER. ROLL, RAKE, AND DRAG AREAS, REMOVE RIDGES, AND FILL DEPRESSIONS AS REQUIRED TO MEET FINISH GRADES.
- J. ALLOW FOR SOD THICKNESS IN AREAS TO BE SODDED SUCH THAT INSTALLED SOD MEETS FINISHED GRADES.

3.2 TREE BARRIERS AND EXISTING TREE PROTECTION

- A. REFER TO NOTES ON DEMOLITION PLANS OR LANDSCAPE PLANS REGARDING TREE PROTECTION AND TREE PROTECTION BARRIERS.
- B. MINIMIZE IMPACTS ON EXISTING TREE ROOTS AS MUCH AS POSSIBLE. AVOID TREE ROOT PLATE AREAS AS DEFINED BY PERMITTING AGENCIES.
- C. ALL ROOTS OF TREES TO REMAIN THAT ARE IMMEDIATELY ADJACENT TO EXTENSIVE EXCAVATION AND ARE 1" DIAMETER OR OVER SHALL BE HAND CUT. EXPOSE ROOTS BY HAND DIGGING, HAND CUT OR SAW CLEANLY, AND IMMEDIATELY COVER WITH SOIL. DO NOT ALLOW CUT ROOTS TO DRY OUT.
- D. SUPPLEMENTAL IRRIGATION IS REQUIRED FOR TREES THAT HAVE UNDERGONE ROOT PRUNING. PROVIDE SUPPLEMENTAL IRRIGATION IMMEDIATELY FOLLOWING PRUNING AND CONTINUE THROUGH CONSTRUCTION.

3.3 PLANTING

- A. PLANT TREES, SHRUBS, AND GROUNDCOVER AFTER FINAL GRADES ARE ESTABLISHED AND PRIOR TO PLANTING OF LAWNS UNLESS OTHERWISE AUTHORIZED BY OWNER'S REPRESENTATIVE. IF PLANTING OF TREES AND SHRUBS OCCURS AFTER INSTALLATION OF LAWNS, PROTECT LAWN AREAS AND PROMPTLY REPAIR DAMAGE CAUSED BY LANDSCAPE INSTALLATION.
- B. LAY OUT INDIVIDUAL PLANT LOCATIONS AND AREAS FOR MULTIPLE PLANTINGS. TRIANGLE SPACING SHALL BE USED FOR SHRUBS AND GROUNDCOVERS UNLESS OTHERWISE SPECIFIED IN PLANS OR BY OWNER'S REPRESENTATIVE. OUTLINE AREAS AND SECURE OWNER'S REPRESENTATIVE'S OR OWNER REPRESENTATIVE'S ACCEPTANCE BEFORE START OF PLANTING WORK. MAKE MINOR ADJUSTMENTS AS MAY BE REQUIRED.
- C. EXCAVATE PITS, BEDS, AND TRENCHES SUCH THAT PITS ARE AS DEEP AS THE PLANT'S ROOTBALL AND 1.5 TIMES THE DIAMETER OF THE ROOTBALL. LOOSEN HARD SUBSOIL IN BOTTOM OF EXCAVATION. SCARIFY SIDES OF PIT.
- D. FILL EXCAVATIONS FOR SHRUBS WITH WATER AND ALLOW WATER TO PERCOLATE OUT PRIOR TO PLANTING. NOTIFY OWNER'S REPRESENTATIVE OR OWNER'S REPRESENTATIVE PRIOR TO PLANTING IF PITS DO NOT DRAIN PRIOR TO PLANTING.
- E. FOR CONTAINERIZED MATERIAL, REMOVE THE PLANT MATERIAL FROM ITS CONTAINER. LIFT TREES BY THE ROOTBALL AND NOT BY THE TRUNK. SET THE PLANT IN THE CENTER OF THE PLANTING PIT WITH THE TOP OF BALL AT 1 TO 2 INCHES ABOVE THE ADJACENT FINISH GRADES. REMOVE ANY SYNTHETIC OR STRAPPING MATERIAL PRIOR TO SETTING THE PLANT INTO THE PLANTING PIT OR TRENCH.
- F. FOR BALL AND BURLAP MATERIAL, SET THE PLANT IN THE CENTER OF THE PLANTING PIT WITH THE TOP OF BALL AT 1 TO 2 INCHES ABOVE THE ADJACENT FINISH GRADES. REMOVE AND DISPOSE OF ALL STRAPPING AND THE UPPER ONE-THIRD OF BURLAP AND UPPER ONE-THIRD OF CAGE OR MESH. ENSURE THAT ANY WIRE ELEMENTS AND/OR CAGE IS CUT BELOW GRADE TO AVOID INJURY AND/OR IMPACTS TO STRING TRIMMERS OR MOWERS.
- G. REMOVE ANY SYNTHETIC OR STRAPPING MATERIAL PRIOR TO SETTING PLANT MATERIAL INTO PLANTING PIT OR TRENCH.
- H. ENSURE PLANT MATERIAL IS PLUMB.
- I. PLACE BACKFILL AROUND BASE AND SIDES OF BALL AND WORK IN EACH LAYER TO SETTLE BACKFILL AND ELIMINATE VOIDS AND AIR POCKETS. ENSURE ROOTBALL REMAINS 1-2" ABOVE ADJACENT FINISH GRADE. WHEN EXCAVATION IS APPROXIMATELY 2/3 FULL, WATER THOROUGHLY BEFORE PLACING REMAINDER OF BACKFILL. REPEAT WATERING UNTIL NO MORE WATER IS ABSORBED. WATER AGAIN AFTER PLACING FINAL LAYER OF BACKFILL.
- J. DISH TOP OF BACKFILL FOR TREES AND PALMS TO ALLOW FOR MULCHING.
- K. ALL PLANT MATERIAL SHALL BE FERTILIZED AT THE TIME OF PLANTING ONLY IF THAT IS WITHIN THE ALLOWABLE FERTILIZING TIME WINDOW PER COUNTY CODE. MIX OR APPLY FERTILIZER ON TOP OF ROOTBALL AND NOT UNDER OR WITHIN PLANTING PITS. APPLY JUST INSIDE OF PLANT FOLIAGE/DRIPLINE AND NOT DIRECTLY ON STEMS OR EXPOSED ROOTS OF MATERIAL. MIX SPECIFIED FERTILIZERS WITH EXISTING SOIL AT RATES SPECIFIED BY THE MANUFACTURER. DELAY MIXING OF FERTILIZER IF PLANTING WILL NOT FOLLOW PLACING OF PLANTING SOIL WITHIN THREE (3) DAYS. DO NOT APPLY OR SPILL FERTILIZER ON IMPERVIOUS SURFACES- IMMEDIATELY CLEAN OFF AND/OR CONTAIN IF SO. DO NOT WASH, SWEEP, OR BLOW OFF EXCESS OR SPILLED FERTILIZER INTO DRAINS, STORMWATER DITCHES OR PONDS, OR OTHER WATER BODIES OR CONVEYANCE SYSTEMS.
- L. APPLY PRE-EMERGENT HERBICIDE, IF APPROVED BY OWNER, AND AS PER MANUFACTURER'S SPECIFICATIONS.
- M. MULCH PITS, TRENCHES, AND PLANTED AREAS. PROVIDE A THREE (3) INCH THICKNESS OF MULCH AND WORK ONTO TOP OF BACKFILL. THE FINISH LEVEL OF MULCH SHOULD MEET ADJACENT FINISH GRADES. MULCH AREAS BETWEEN GROUNDCOVER PLANTS.
- N. WATER THOROUGHLY AFTER PLANTING, TAKING CARE NOT TO COVER CROWNS OF PLANTS WITH WET SOILS.
- O. GUY AND STAKE TREES AND PALMS IMMEDIATELY AFTER PLANTING AS NEEDED.

PART 3 - EXECUTION, CONT

3.4 SODDING NEW LAWNS

- A. ENSURE GRADE IS SMOOTH AND EVEN WITH A LOOSE, UNIFORM TEXTURE. ROLL, RAKE AND DRAG PROPOSED LAWN AREAS, REMOVE RIDGES, AND FILL DEPRESSIONS AS REQUIRED TO MEET FINISH GRADES AND PROVIDE AN EVEN SURFACE FOR SOD INSTALLATION.
- B. LAY SOD WITHIN 24 HOURS FROM TIME OF STRIPPING.
- C. MOISTEN PREPARED LAWN AREAS BEFORE PLANTING IF SOIL IS DRY. WATER THOROUGHLY AND ALLOW SURFACE MOISTURE TO DRY BEFORE PLANTING LAWNS. DO NOT CREATE A MUDDY SOIL CONDITION.
- D. APPLY SPECIFIED COMMERCIAL FERTILIZER IF WITHIN THE ALLOWABLE FERTILIZING TIME WINDOW PER COUNTY CODE. APPLY AT RATES SPECIFIED AND THOROUGHLY MIX INTO UPPER TWO INCHES OF SOIL IN AREAS OF PROPOSED SOD. DELAY APPLICATION OF FERTILIZER IF LAWN PLANTING WILL NOT FOLLOW WITHIN A FEW DAYS. SPREADER DEFLECTOR SHIELDS ARE REQUIRED WHEN FERTILIZING VIA ROTARY/BROADCAST SPREADERS. DO NOT APPLY OR SPILL FERTILIZER ON IMPERVIOUS SURFACES- IMMEDIATELY CLEAN OFF AND/OR CONTAIN IF SO. DO NOT WASH, SWEEP, OR BLOW OFF EXCESS OR SPILLED FERTILIZER INTO DRAINS, STORMWATER DITCHES OR PONDS, OR OTHER WATER BODIES OR CONVEYANCE SYSTEMS.
- E. LAY SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STRIPS. DO NOT OVERLAP. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES. TAP SOD FIRMLY IN PLACE ONCE LAID.
- F. ANCHOR SOD ON SLOPES GREATER THAN 3:1 WITH WOOD PEGS TO PREVENT SLIPPAGE, IF NEEDED.
- G. AVOID DAMAGE TO SUBGRADE OR SOD DUE TO INSTALLATION ACTIVITIES.
- H. WATER SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING.

3.5 CLEANUP

- A. MAINTAIN WORK AREAS IN AN ORDERLY CONDITION. KEEP PAVEMENTS AND ADJACENT SITE AREAS CLEAN. REMOVE ALL POTS, LITTER, TOOLS, EQUIPMENT, AND EXTRANEIOUS SOIL, SOD, OR MATERIALS AT THE END OF EACH WORK DAY. STORE MATERIALS AND EQUIPMENT WHERE DIRECTED. DISPOSE OF MATERIALS AS DIRECTED.

3.6 NEW PLANT PROTECTION

- A. PROTECT LANDSCAPE WORK AND MATERIALS FROM DAMAGE DURING CONSTRUCTION. MAINTAIN PROTECTION DURING INSTALLATION AND THROUGHOUT THE MAINTENANCE PERIOD. TREAT, REPAIR, OR REPLACE DAMAGED LANDSCAPE WORK AS DIRECTED.
- B. TREES WHICH ARE TO REMAIN IN THE CONSTRUCTION AREA SHALL BE PROTECTED FROM DAMAGE THROUGHOUT THE CONSTRUCTION PROCESS BY THE CONTRACTOR.
- C. DO NOT PERMIT HEAVY EQUIPMENT OR STOCKPILES WITHIN THE DRIP LINE OF EXISTING OR NEWLY PLANTED TREES. REMOVE INTERFERING BRANCHES WITHOUT INJURY TO TRUNKS.

3.7 MAINTENANCE

- A. MAINTENANCE ACTIVITIES SHALL INCLUDE THE FOLLOWING ACTIVITIES DURING CONSTRUCTION AND UNTIL FINAL ACCEPTANCE:
  1. WEEDING: MAINTAIN PLANTINGS AND TURF AS WEED FREE.
  2. MULCHING: MAINTAIN MULCH AT TREES, PALMS, AND WITHIN PLANTING BEDS AT A 3" DEPTH.
  3. PEST CONTROL: SPRAY AS REQUIRED TO KEEP PLANTINGS AND TURF FREE OF INSECTS AND DISEASE.
  4. MOWING: MOW TURF AREAS AS NEEDED OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
  5. REPLACEMENT: REPLACE PLANTS OR SOD AREAS THAT ARE IN POOR CONDITION.
  6. LITTER REMOVAL: REMOVE LITTER AND DEBRIS FROM LANDSCAPE AND TURF AREAS.
  7. RESTORE PLANTING SAUCERS OF TREES AND SHRUBS.
  8. TIGHTEN AND REPAIR STAKE AND GUY WIRE SUPPORTS, IF PRESENT, AND RESET TREES AND SHRUBS TO PROPER GRADES OF VERTICAL POSITION AS REQUIRED.
  9. REMOVE ALL TREE STAKING, IF PRESENT, WITHIN ONE YEAR AFTER PLANTING.

3.8 REPLACEMENT OF EXISTING LANDSCAPE DAMAGED DURING PROJECT


- A. ANY EXISTING VEGETATION, INCLUDING TREES AND SHRUBS, DAMAGED OR DESTROYED SHALL BE REPLACED OR MITIGATED BY THE CONTRACTOR WITH LIKE SPECIES OR ANOTHER SPECIES APPROVED BY THE OWNER'S REPRESENTATIVE. ANY AREA OF VEGETATION THAT IS DAMAGED DURING CONSTRUCTION WILL BE RESTORED TO ITS ORIGINAL STATE WITHIN 72 HOURS OF THE COMPLETION OF THE ASSOCIATED CONSTRUCTION WORK.
- B. IF REMOVAL OF AN EXISTING TREE REQUIRES MITIGATION, THE CONTRACTOR SHALL BE HELD LIABLE FOR THE COMPLETE COST, INCLUDING BUT NOT LIMITED TO TREE REPLACEMENT COSTS AND PAYMENTS REQUIRED TO PERMITTING AGENCIES.
- C. TREE REPLACEMENT SPECIES AND PROCEDURES SHALL BE DISCUSSED WITH AND APPROVED BY THE OWNER'S REPRESENTATIVE AND OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF ACTIVITIES.

3.9 INSPECTION AND ACCEPTANCE

- A. WHEN ALL LANDSCAPE WORK IS SUBSTANTIALLY COMPLETE, THE OWNER'S REPRESENTATIVE WILL, UPON REQUEST, MAKE A SUBSTANTIAL COMPLETION INSPECTION TO DETERMINE ACCEPTABILITY AND COMPLIANCE WITH THE CONTRACT DOCUMENTS. THE OWNER'S REPRESENTATIVE WILL PRODUCE A WRITTEN PUNCH LIST FOR THE CONTRACTOR AND OWNER'S REPRESENTATIVE TO IDENTIFY ITEMS THAT SHALL BE ADDRESSED PRIOR TO FINAL ACCEPTANCE.
- B. ONCE ITEMS OF THE PUNCH LIST ARE ADDRESSED, THE OWNER'S REPRESENTATIVE WILL CONDUCT A FINAL COMPLETION INSPECTION. IF NECESSARY, THE OWNER'S REPRESENTATIVE WILL PRODUCE A FINAL PUNCH LIST FOR THE CONTRACTOR AND OWNER'S REPRESENTATIVE TO IDENTIFY ITEMS TO BE ADDRESSED PRIOR TO FINAL ACCEPTANCE.
- C. FINAL ACCEPTANCE WILL NOT BE ISSUED UNTIL ALL PUNCH LIST ITEMS HAVE BEEN COMPLETED AND ACCEPTED BY THE OWNER AND ALL SUBMITTALS HAVE BEEN MADE.
- D. WORK MAY BE INSPECTED FOR ACCEPTANCE IN PORTIONS AS PHASES OF INSTALLATION ARE COMPLETED AND AS AGREEABLE TO THE OWNER'S REPRESENTATIVE, PROVIDED EACH PORTION OF WORK OFFERED FOR INSPECTION IS SUBSTANTIALLY COMPLETE.

END OF SECTION

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