



OSCEOLA COUNTY, FLORIDA

CONSTRUCTION PLANS FOR KISSIMMEE - ST. CLOUD CONNECTOR TRAIL

FINANCIAL PROJECT ID 439067-1-38-01
FAN NO. TBD

PLANS PREPARED FOR:

OSCEOLA COUNTY TRANSPORTATION
AND TRANSIT DEPARTMENT
1 COURTHOUSE SQ SUITE 3100
KISSIMMEE, FLORIDA 34741
PH: 407-742-0552
FAX: 407-742-0560

SHOP DRAWINGS
TO BE SUBMITTED TO:

STEVEN M. KREIDT, P.E.
KELLY, COLLINS & GENTRY, INC.
1700 N. ORANGE AVE.
SUITE 400
ORLANDO, FLORIDA 32804

COMPONENTS OF CONTRACT PLANS SET
TRAIL PLANS

INDEX OF TRAIL PLANS

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GOVERNING STANDARDS AND SPECIFICATIONS:

FLORIDA DEPARTMENT OF TRANSPORTATION,
FY 2020-21 STANDARD PLANS FOR ROAD AND
BRIDGE CONSTRUCTION AND APPLICABLE
INTERIM REVISIONS (IRS), AND JANUARY 2020
STANDARD SPECIFICATIONS FOR ROAD AND
BRIDGE CONSTRUCTION, AS AMENDED BY
CONTRACT DOCUMENTS.

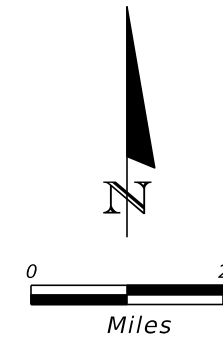
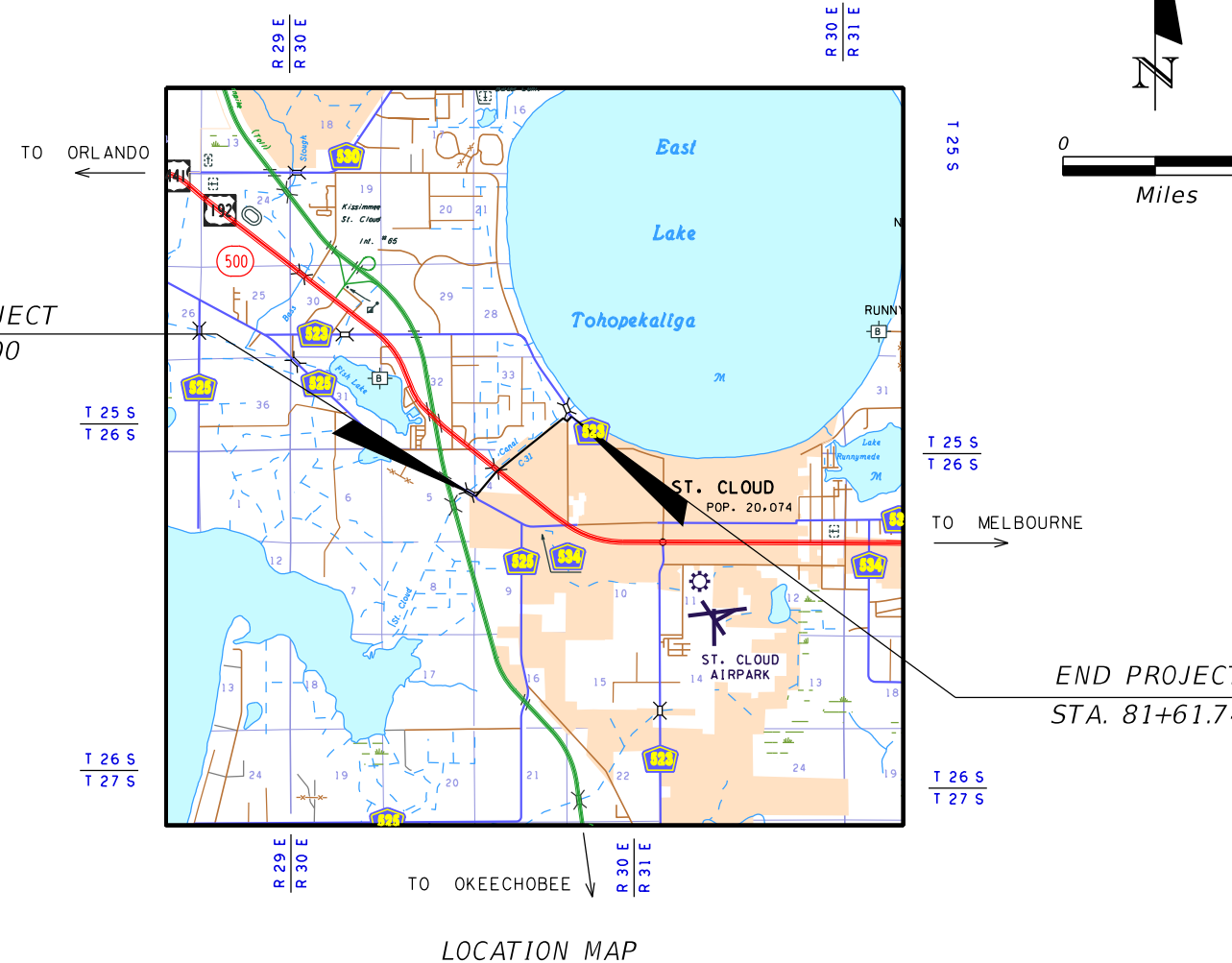
APPLICABLE DESIGN STANDARDS:

Standard Plans for Road Construction and associated
IRS are available at the following website:
<http://www.fdot.gov/design/standardplans>

Standard Specifications for Road and Bridge
Construction are available at the following website:
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

OSCEOLA COUNTY

PEGGY CHOUDHRY	DISTRICT 1
VIVIANA JANER	DISTRICT 2
BRANDON ARRINGTON	DISTRICT 3
CHERYL GRIEB	DISTRICT 4
FRED HAWKINS, JR.	DISTRICT 5
TAWNY H. OLORE, P.E.	EXECUTIVE DIRECTOR, TRANSPORTATION & TRANSIT



KCG KELLY, COLLINS & GENTRY, INC.
ENGINEERING / PLANNING
1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804
407-898-7858 CERT. OF AUTHORIZATION NO. 7350
STEVEN M. KREIDT, P.E. LICENSE NO. 39540

ENGINEER OF RECORD: STEVEN M. KREIDT, P.E.

P.E. NO: 39540

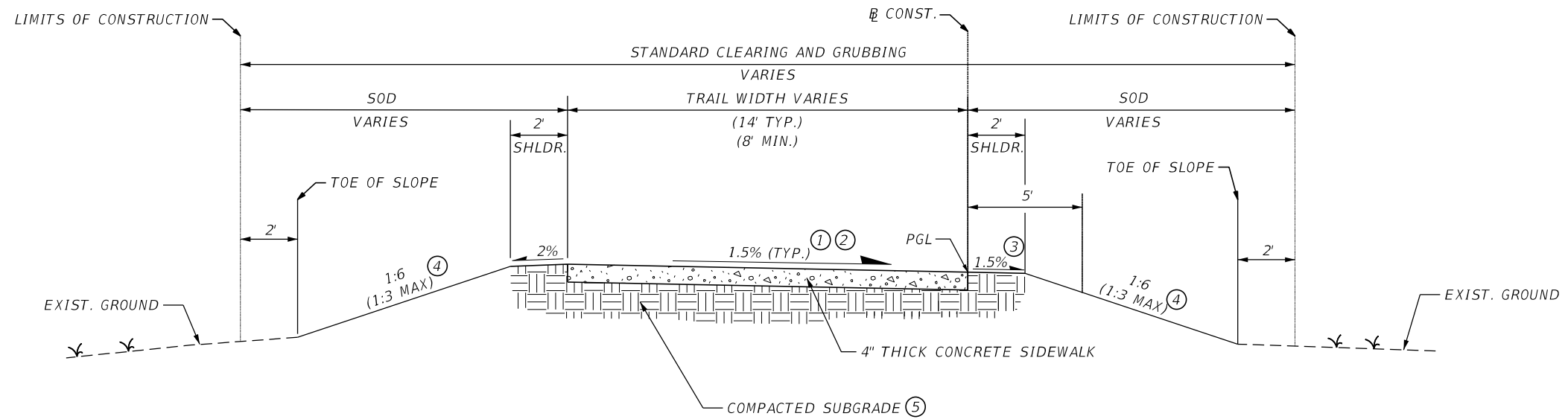
60% PLANS
05/06/2020

LENGTH OF PROJECT		
	LINEAR FEET	MILES
AT GRADE SIDEWALK	7761.74	1.47
NET LENGTH OF PROJECT	7761.74	1.47
GROSS LENGTH OF PROJECT	7761.74	1.47

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

OSCEOLA COUNTY PROJECT MANAGER: CONROY JACOBS, AICP

SHEET
NO.
1



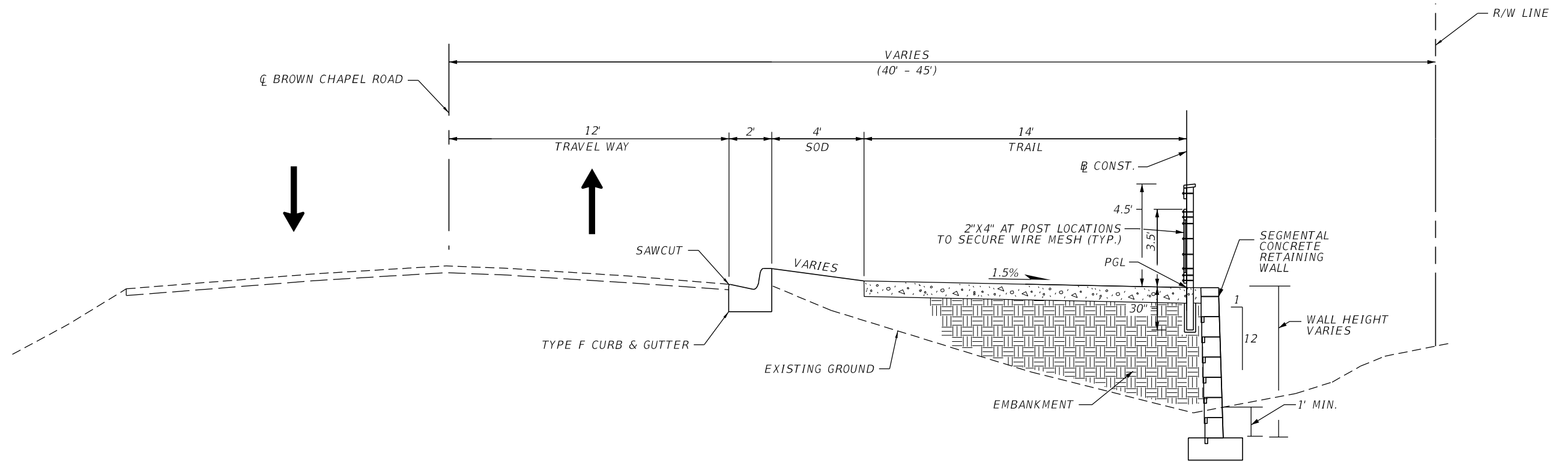
TYPICAL SECTION
CONCRETE SECTION
KISSIMMEE - ST. CLOUD CONNECTOR TRAIL
 STA. 4+00.00 TO STA. 75+42.42

NOTES:

1. CROSS SLOPE SHALL NOT EXCEED 0.02 OR BE LESS THAN 0.01 EXCEPT AS NOTED IN PLANS.
2. CONTRACTOR MUST CUT EXPANSION JOINTS ALONG CURVES AT PC AND PT AND ALL OTHER INTERMEDIATE JOINTS PER STANDARD PLANS INDEX 350-001.
3. SEE STANDARD PLANS INDEX NUMBER 570-010.
4. REFER TO CROSS SECTIONS FOR AREAS WITH NON-TYPICAL SIDE SLOPES. (MAXIMUM 1:3)
5. COMPACT FILL TO A MINIMUM OF 98% OF THE SOIL'S MODIFIED PROCTOR MAXIMUM DRY DENSITY AS DETERMINED BY ASTM STANDARD D-1557 FOR EACH LIFT OF FILL PLACED. PLACE FILL IN LEVEL LIFTS NO THICKER THAN 12 INCHES. THINNER LIFTS MAY BE NEEDED TO ACHIEVE COMPACTION IN SILTY OR CLAYEY SOILS.

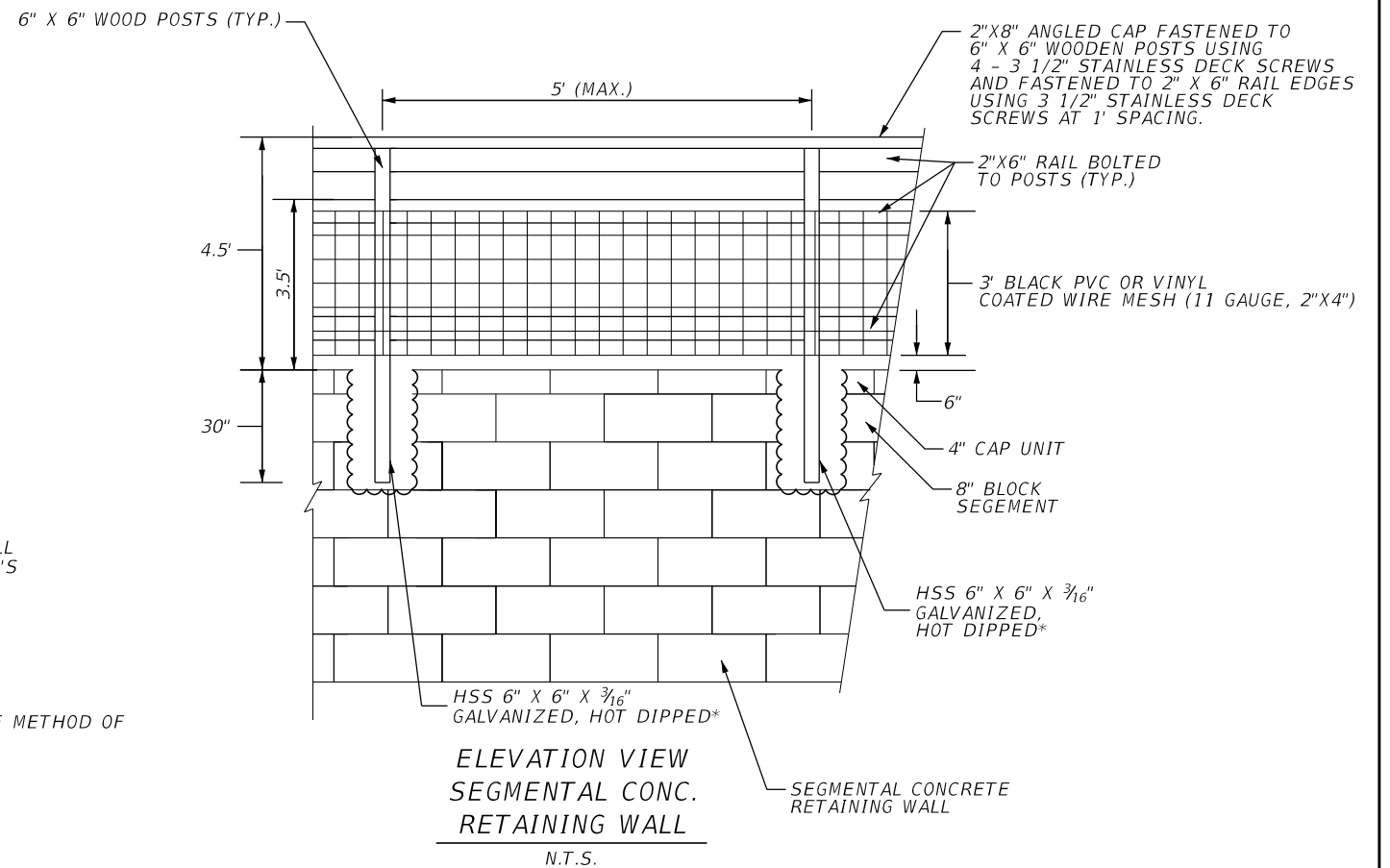
DESIGN SPEED 18 MPH

REVISIONS				KELLY, COLLINS & GENTRY, INC. ENGINEERING / PLANNING <small>1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804 407-898-7858 CERT. OF AUTHORIZATION NO. 7350 STEVEN M. KREIDT, P.E. LICENSE NO. 39640</small>	OSCEOLA COUNTY	TYPICAL SECTION	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		KISSIMMEE - ST. CLOUD CONNECTOR TRAIL		3



**TYPICAL SECTION
CONCRETE SECTION
BROWN CHAPEL ROAD**

STA. 75+42.42 TO STA. 81+40.34



SEGMENTAL CONC. RETAINING WALL TO BE DESIGNED BY CONTRACTOR'S ENGINEER PER PROJECT SPECIFICATIONS. CONTRACTOR TO PROVIDE ENGINEERED SHOP DRAWINGS TO BE APPROVED BY THE OWNER.

*SHOP DRAWINGS SHALL INCLUDE METHOD OF INSTALLING HSS



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OSCEOLA COUNTY

KISSIMMEE - ST. CLOUD
CONNECTOR TRAIL

TYPICAL SECTION

SHEET NO.

4

PROJECT NOTES

- BEARINGS AND COORDINATES SHOWN HEREON ARE RELATIVE TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE (0901), NORTH AMERICAN DATUM OF 1983/1990 ADJUSTMENT, BASED ON TIES TO EXISTING OSCEOLA COUNTY CONTROL MONUMENTS. ELEVATIONS ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH AND CONFORM TO THE MOST STRINGENT REQUIREMENT OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM (DATED 2019-2020) AND FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (DATED JANUARY 2020).
- SUBSURFACE INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FOR USE IN ESTABLISHING DESIGN CRITERIA FOR THE PROJECT. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED AND IS NOT TO BE CONSTRUED AS PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INQUIRE OF THE ENGINEER IF ADDITIONAL INFORMATION IS AVAILABLE, TO MAKE ARRANGEMENTS TO REVIEW SAME PRIOR TO BIDDING, AND TO MAKE HIS OWN DETERMINATION AS TO ALL SUBSURFACE CONDITIONS.
- THE DISPOSAL OF EXCESS EARTHWORK MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. APPROVALS OF DISPOSAL SITES SHALL BE OBTAINED FROM OSCEOLA COUNTY PRIOR TO DISPOSAL. ALL EXCESS MATERIAL IS THE PROPERTY OF THE CONTRACTOR.
- ALL DISTURBED AREAS TO BE SODDED AND SHALL MATCH EXISTING TYPE OF SOD, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. SOD SHALL BE PEGGED IF THE SLOPE IS 1:3 OR STEEPER.
- ALL OFFSETS SHOWN ARE TO PROPOSED BASELINE OF CONSTRUCTION.
- THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON AVAILABLE RECORDS AND SURVEYS BUT IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR SHALL DETERMINE THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO AND IS RESPONSIBLE FOR COORDINATING UTILITY RELOCATION WITH PROJECT CONSTRUCTION. PRIOR TO ORDERING DRAINAGE STRUCTURES, THE CONTRACTOR SHALL DETERMINE IF DRAINAGE/UTILITY CONFLICTS EXIST. INFORMATION ON CONFLICTS IS TO BE SUBMITTED TO THE ENGINEER AS SOON AS POSSIBLE AFTER DISCOVERY FOR RESOLUTION.
- PRIOR TO COMMENCEMENT OF WORK CONTRACTOR SHALL CALL SUNSHINE ONE CALL 48 HOURS IN ADVANCE OF PERFORMING ANY UTILITY ADJUSTMENTS OR RELOCATIONS. SUNSHINE ONE CALL PHONE NUMBER IS 811.

KNOWN UTILITY OWNER	TELEPHONE NUMBER
AT&T DISTRIBUTION	(954) 249-0558
BRIGHT HOUSE NETWORKS, LLC	(407) 532-8509
CENTURYLINK	(855) 742-6062
CHARTER	(407) 532-8092
DUKE	(800) 778-9140
KISSIMMEE UTILITY AUTHORITY	(407) 933-7777
SPRINT	(800) 521-0579 x5141
ST. CLOUD UTILITIES	(407) 957-7344
OSCEOLA COUNTY TRANSPORTATION & TRANSIT	(407) 742-0552
TOHO WATER AUTHORITY	(407) 572-7472

- ALL (P.R.M.'s) IRONS AND MONUMENTS SHOWN ON PLANS, OR FOUND, SHALL BE PRESERVED. THOSE SHOWN IN PROPOSED PAVEMENT SHALL BE PROTECTED WITH A CAST IRON VALVE BOX.
- ALL EXCAVATIONS SHALL BE REQUIRED TO CONFORM TO THE PROVISION OF PART IV OF CHAPTER 553.60, F.S., ALSO KNOWN AS THE "TRENCH SAFETY ACT", TO PROTECT EXISTING PAVEMENT, STRUCTURES, FOUNDATIONS, AND CONSTRUCTION PERSONNEL DURING CONSTRUCTION OF THE PROJECT.
- CONTRACTOR SHALL MAINTAIN UNINTERRUPTED ACCESS TO ALL DRIVEWAYS AND SIDE STREETS AT ALL TIMES AND IS TO NOTIFY PROPERTY OWNERS IN WRITTEN NOTIFICATION FIVE DAYS PRIOR TO STARTING CONSTRUCTION. COST INCLUDED UNDER PAY ITEM NO. 101-1, MOBILIZATION.

TRANSIT AGENCY CONTACT INFORMATION	TELEPHONE NUMBER	EMAIL

START WORK NOTIFICATION

KEITH TILLET, ASSISTANT CHIEF SUPERVISOR	(407) 254-6207	KTILLET@GOLYNX.COM
BRUCE DETWEILER, BUS STOP COORDINATOR	(407) 254-6136	BDETWEILER@GOLYNX.COM
JENNIFER HALL, CONSTRUCTION PROJECT MANAGER	(407) 254-6046	JHALL@GOLYNX.COM

LANE CLOSURE NOTIFICATIONS

KEITH TILLET, ASSISTANT CHIEF SUPERVISOR	(407) 254-6207	KTILLET@GOLYNX.COM
REY QUINONES, CHIEF SUPERVISOR	(407) 254-6223	RQUINONES@GOLYNX.COM
BRUCE DETWEILER, BUS STOP COORDINATOR	(407) 254-6136	BDETWEILER@GOLYNX.COM


BUS SHELTER COORDINATION

JENNIFER HALL, CONSTRUCTION PROJECT MANAGER	(407) 254-6046	JHALL@GOLYNX.COM
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- PUBLIC LAND CORNERS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED OR DISTURBED, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE COUNTY SURVEYOR, WITHOUT DELAY, BY TELEPHONE. THE CONTRACTOR SHALL PROVIDE WRITTEN FOLLOW UP CONFIRMATION WITHIN 48 HOURS OF TELEPHONE NOTIFICATION.
- THE CONTRACTOR SHALL RELOCATE EXISTING TRAFFIC SIGNS AS REQUIRED DURING CONSTRUCTION. THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION VISIBLE DURING CONSTRUCTION OPERATIONS TO FACILITATE WAY FINDING FOR EMERGENCY VEHICLES. SIGNS WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE COUNTY. THE CONTRACTOR SHALL REMOVE AND STORE EXISTING TRAFFIC SIGNS THAT ARE NOT USED DURING CONSTRUCTION. THE CONTRACTOR SHALL RE-INSTALL THE STORED SIGNS AS SHOWN ON THE SIGNING PLANS OR AS DIRECTED BY THE ENGINEER. SIGNS NOT RE-INSTALLED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF PROPERLY. COST OF REMOVAL AND STORAGE, RE-INSTALLATION, RELOCATION, AND/OR DISPOSAL SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
- ALL PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONDITION. COST TO BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.
- CONTRACTOR TO DESIGNATE AND AVOID UNDERGROUND I.T.S. INFRASTRUCTURE IN THE AREA ADJACENT TO US 192 AND NEPTUNE RD. NO IMPACTS TO I.T.S. FACILITIES ARE ANTICIPATED, HOWEVER, SHOULD I.T.S. LINES BE UNCOVERED DUE TO VARYING FIELD CONDITIONS, CONTACT OSCEOLA COUNTY TRANSPORTATION & TRANSIT AT 407-742-0552.
- ALL TREES ARE TO REMAIN UNLESS OTHERWISE INDICATED.

TEMPORARY TRAFFIC CONTROL NOTES:

- TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, STANDARD PLANS INDEX 102-600 SERIES.
- ACCESS TO ALL RESIDENCES, BUSINESSES AND THE C-31 CANAL SHALL BE PROVIDED AT ALL TIMES.
- THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION VISIBLE DURING CONSTRUCTION OPERATIONS, IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC.
- THE EXISTING SPEED LIMITS OF AFFECTED ROADS MUST BE MAINTAINED DURING ALL PHASES OF CONST.
- A LANE MAY ONLY BE CLOSED DURING ACTIVE WORK PERIODS. ONLY ONE LANE MAY BE CLOSED AT A TIME.
- THE FOLLOWING PROVIDES THE ANTICIPATED GOVERNING FDOT STANDARD PLANS FOR MOT DURING CONSTRUCTION, THIS WILL APPLY TO THE ENTIRE PROJECT LENGTH.
- ALL WORK ACTIVITIES SHALL MEET, AT MINIMUM, ALL REQUIREMENTS OF FDOT STANDARD PLANS INDEX 102-601 WHERE ANY VEHICLE, EQUIPMENT, WORKERS, AND THEIR ACTIVITIES ARE MORE THAN 15' OR MORE FROM THE EDGE OF TRAVEL WAY.
- ALL WORK ACTIVITIES SHALL MEET, AT MINIMUM, ALL REQUIREMENTS OF FDOT STANDARD PLANS INDEX 102-602 WHERE ANY VEHICLE, EQUIPMENT, WORKERS, AND THEIR ACTIVITIES ARE CLOSER THAN 15' BUT NOT CLOSER THAN 2' TO THE EDGE OF TRAVEL WAY.
- ALL WORK ACTIVITIES SHALL MEET, AT MINIMUM, ALL REQUIREMENTS OF FDOT STANDARD PLANS INDEX 102-603 WHERE ANY VEHICLE, EQUIPMENT, WORKERS, AND THEIR ACTIVITIES ARE BETWEEN THE CENTERLINE AND A LINE 2' OUTSIDE THE EDGE OF TRAVEL WAY.
- INGRESS AND EGRESS WILL NOT BE ALLOWED VIA US 192.

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DATE	DESCRIPTION	DATE	DESCRIPTION		KISSIMMEE - ST. CLOUD CONNECTOR TRAIL		
							PROJECT NOTES

CONST. KISSIMMEE - ST. CLOUD CONNECTOR TRAIL

Beginning chain BLCONST description

Point BEG1 N 1,425,093.0680 E 551,076.2190 Sta 4+00.00

Course from BEG1 to PC BLCONST1 N 60° 51' 58.18" W Dist 27.1908

Curve Data

Curve BLCONST1
P.I. Station = 5+39.11 N 1,425,160.7950 E 550,954.7065
Delta = 113° 03' 23.18" (RT)
Degree = 77° 25' 36.22"
Tangent = 111.9215
Length = 146.0173
Radius = 74.0000
External = 60.1731
Long Chord = 123.4553
Mid. Ord. = 33.1871
P.C. Station = 4+27.19 N 1,425,106.3059 E 551,052.4682
P.T. Station = 5+73.21 N 1,425,229.4075 E 551,043.1302
C.C. = N 1,425,170.9438 E 551,088.4952
Back = N 60° 51' 58.18" W
Ahead = N 52° 11' 25.00" E
Chord Bear = N 4° 20' 16.59" W

Course from PT BLCONST1 to PC BLCONST2 N 52° 11' 25.00" E Dist 101.9653

Curve Data

Curve BLCONST2
P.I. Station = 7+53.99 N 1,425,340.2340 E 551,185.9568
Delta = 24° 41' 53.78" (RT)
Degree = 15° 54' 55.78"
Tangent = 78.8162
Length = 155.1838
Radius = 360.0000
External = 8.5268
Long Chord = 153.9851
Mid. Ord. = 8.3295
P.C. Station = 6+75.17 N 1,425,291.9165 E 551,123.6880
P.T. Station = 8+30.36 N 1,425,358.1132 E 551,262.7183
C.C. = N 1,425,007.4981 E 551,344.3828
Back = N 52° 11' 25.00" E
Ahead = N 76° 53' 18.78" E
Chord Bear = N 64° 32' 21.89" E

Curve Data

Curve BLCONST3
P.I. Station = 9+20.51 N 1,425,378.5641 E 551,350.5215
Delta = 27° 35' 40.60" (LT)
Degree = 15° 36' 25.55"
Tangent = 90.1535
Length = 176.8081
Radius = 367.1136
External = 10.9076
Long Chord = 175.1042
Mid. Ord. = 10.5929
P.C. Station = 8+30.36 N 1,425,358.1132 E 551,262.7183
P.T. Station = 10+07.17 N 1,425,437.3603 E 551,418.8637
C.C. = N 1,425,715.6564 E 551,179.4400
Back = N 76° 53' 18.78" E
Ahead = N 49° 17' 38.17" E
Chord Bear = N 63° 05' 28.48" E

Course from PT BLCONST3 to PC BLCONST4 N 49° 17' 38.17" E Dist 176.0667

Curve Data

Curve BLCONST4
P.I. Station = 13+95.39 N 1,425,690.5534 E 551,713.1649
Delta = 7° 08' 28.51" (RT)
Degree = 1° 41' 06.61"
Tangent = 212.1600
Length = 423.7705
Radius = 3,400.0000
External = 6.6130
Long Chord = 423.4962
Mid. Ord. = 6.6001
P.C. Station = 11+83.23 N 1,425,552.1872 E 551,552.3337
P.T. Station = 16+07.00 N 1,425,807.8524 E 551,889.9495
C.C. = N 1,422,974.7651 E 553,769.7411
Back = N 49° 17' 38.17" E
Ahead = N 56° 26' 06.68" E
Chord Bear = N 52° 51' 52.43" E

Curve Data

Curve BLCONST5
P.I. Station = 17+64.65 N 1,425,895.0126 E 552,021.3111
Delta = 5° 09' 28.68" (LT)
Degree = 1° 38' 13.28"
Tangent = 157.6476
Length = 315.0823
Radius = 3,500.0000
External = 3.5486
Long Chord = 314.9759
Mid. Ord. = 3.5450
P.C. Station = 16+07.00 N 1,425,807.8524 E 551,889.9495
P.T. Station = 19+22.08 N 1,425,993.6295 E 552,144.3049
C.C. = N 1,428,724.2658 E 549,954.8699
Back = N 56° 26' 06.68" E
Ahead = N 51° 16' 38.00" E
Chord Bear = N 53° 51' 22.34" E

Course from PT BLCONST5 to PC BLCONST6 N 51° 16' 38.00" E Dist 195.2909

Curve Data

Curve BLCONST6
P.I. Station = 21+99.64 N 1,426,167.2558 E 552,360.8495
Delta = 60° 52' 40.81" (LT)
Degree = 40° 55' 32.00"
Tangent = 82.2657
Length = 148.7530
Radius = 140.0000
External = 22.3812
Long Chord = 141.8538
Mid. Ord. = 19.2963
P.C. Station = 21+17.38 N 1,426,115.7943 E 552,296.6673
P.T. Station = 22+66.13 N 1,426,248.3693 E 552,347.1291
C.C. = N 1,426,225.0198 E 552,209.0899
Back = N 51° 16' 38.00" E
Ahead = N 9° 36' 02.81" W
Chord Bear = N 20° 50' 17.59" E

Curve Data

Curve BLCONST7
P.I. Station = 23+09.64 N 1,426,291.2706 E 552,339.8722
Delta = 60° 54' 34.48" (RT)
Degree = 77° 25' 36.22"
Tangent = 43.5107
Length = 78.6674
Radius = 74.0000
External = 11.8439
Long Chord = 75.0150
Mid. Ord. = 10.2098
P.C. Station = 22+66.13 N 1,426,248.3693 E 552,347.1291
P.T. Station = 23+44.80 N 1,426,318.4701 E 552,373.8335
C.C. = N 1,426,260.7112 E 552,420.0926
Back = N 9° 36' 02.81" W
Ahead = N 51° 18' 31.67" E
Chord Bear = N 20° 51' 14.43" E

Course from PT BLCONST7 to PC BLCONST8 N 51° 18' 31.67" E Dist 167.1881

Curve Data

Curve BLCONST8
P.I. Station = 25+57.11 N 1,426,451.1922 E 552,539.5499
Delta = 62° 45' 00.17" (RT)
Degree = 77° 25' 36.22"
Tangent = 45.1255
Length = 81.0444
Radius = 74.0000
External = 12.6736
Long Chord = 77.0544
Mid. Ord. = 10.8204
P.C. Station = 25+11.98 N 1,426,422.9832 E 552,504.3282
P.T. Station = 25+93.03 N 1,426,432.7957 E 552,580.7553
C.C. = N 1,426,365.2243 E 552,550.5873
Back = N 51° 18' 31.67" E
Ahead = S 65° 56' 28.16" E
Chord Bear = N 82° 41' 01.75" E

Curve Data

Curve BLCONST9
P.I. Station = 27+22.53 N 1,426,379.9996 E 552,699.0102
Delta = 110° 24' 18.57" (LT)
Degree = 63° 39' 43.12"
Tangent = 129.5055
Length = 173.4240
Radius = 90.0000
External = 67.7075
Long Chord = 147.8115
Mid. Ord. = 38.6391
P.C. Station = 25+93.03 N 1,426,432.7957 E 552,580.7553
P.T. Station = 27+66.45 N 1,426,509.2418 E 552,707.2630
C.C. = N 1,426,514.9771 E 552,617.4460
Back = S 65° 56' 28.16" E
Ahead = N 3° 39' 13.27" E
Chord Bear = N 58° 51' 22.56" E

Curve Data

Curve BLCONST10
P.I. Station = 28+10.76 N 1,426,553.4632 E 552,710.0868
Delta = 47° 47' 51.66" (RT)
Degree = 57° 17' 44.81"
Tangent = 44.3115
Length = 83.4227
Radius = 100.0000
External = 9.3778
Long Chord = 81.0246
Mid. Ord. = 8.5738
P.C. Station = 27+66.45 N 1,426,509.2418 E 552,707.2630
P.T. Station = 28+49.88 N 1,426,581.0772 E 552,744.7419
C.C. = N 1,426,502.8692 E 552,807.0598
Back = N 3° 39' 13.27" E
Ahead = N 51° 27' 04.93" E
Chord Bear = N 27° 33' 09.10" E

Course from PT BLCONST10 to PC BLCONST11 N 51° 27' 04.93" E Dist 252.5477

Curve Data

Curve BLCONST11
P.I. Station = 31+46.40 N 1,426,765.8638 E 552,976.6462
Delta = 24° 48' 04.07" (RT)
Degree = 28° 38' 52.40"
Tangent = 43.9749
Length = 86.5723
Radius = 200.0000
External = 4.7774
Long Chord = 85.8980
Mid. Ord. = 4.6660
P.C. Station = 31+02.42 N 1,426,738.4595 E 552,942.2543
P.T. Station = 31+89.00 N 1,426,776.3141 E 553,019.3613
C.C. = N 1,426,582.0436 E 553,066.8900
Back = N 51° 27' 04.93" E
Ahead = N 76° 15' 09.00" E
Chord Bear = N 63° 51' 06.96" E

Course from PT BLCONST11 to PC BLCONST12 N 76° 15' 09.00" E Dist 42.1588

Curve Data

Curve BLCONST12
P.I. Station = 32+77.75 N 1,426,797.4056 E 553,105.5715
Delta = 29° 01' 31.69" (LT)
Degree = 31° 49' 51.56"
Tangent = 46.5938
Length = 91.1862
Radius = 180.0000
External = 5.9327
Long Chord = 90.2143
Mid. Ord. = 5.7434
P.C. Station = 32+31.15 N 1,426,786.3329 E 553,060.3124
P.T. Station = 33+22.34 N 1,426,829.0473 E 553,139.7737
C.C. = N 1,426,961.1763 E 553,017.5366
Back = N 76° 15' 09.00" E
Ahead = N 47° 13' 37.31" E
Chord Bear = N 61° 44' 23.15" E

Course from PT BLCONST12 to PC BLCONST13 N 47° 13' 37.31" E Dist 240.5707

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DATE	DESCRIPTION	DATE	DESCRIPTION		KISSIMMEE - ST. CLOUD CONNECTOR TRAIL			

Curve Data

Curve BLCONST13
P.I. Station 36+33.25 N 1,427,040.1837 E 553,367.9962
Delta = 23° 22' 35.30" (RT)
Degree = 16° 51' 06.12"
Tangent = 70.3378
Length = 138.7188
Radius = 340.0000
External = 7.1994
Long Chord = 137.7586
Mid. Ord. = 7.0501
P.C. Station 35+62.91 N 1,426,992.4176 E 553,316.3647
P.T. Station 37+01.63 N 1,427,063.5431 E 553,434.3418
C.C. N 1,426,742.8405 E 553,547.2570
Back = N 47° 13' 37.31" E
Ahead = N 70° 36' 12.61" E
Chord Bear = N 58° 54' 54.96" E

Curve Data

Curve BLCONST17
P.I. Station 43+23.58 N 1,427,481.4415 E 553,885.5948
Delta = 38° 02' 13.54" (RT)
Degree = 38° 11' 49.87"
Tangent = 51.7035
Length = 99.5809
Radius = 150.0000
External = 8.6608
Long Chord = 97.7623
Mid. Ord. = 8.1880
P.C. Station 42+71.87 N 1,427,436.8528 E 553,859.4205
P.T. Station 43+71.46 N 1,427,500.4323 E 553,933.6843
C.C. N 1,427,360.9170 E 553,988.7795
Back = N 30° 24' 48.94" E
Ahead = N 68° 27' 02.48" E
Chord Bear = N 49° 25' 55.71" E

Curve Data

Curve BLCONST21
P.I. Station 47+61.27 N 1,427,684.1220 E 554,252.9315
Delta = 53° 16' 27.95" (LT)
Degree = 77° 40' 37.60"
Tangent = 36.9969
Length = 68.5845
Radius = 73.7615
External = 8.7584
Long Chord = 66.1404
Mid. Ord. = 7.8288
P.C. Station 47+24.27 N 1,427,692.5664 E 554,216.9112
P.T. Station 47+92.86 N 1,427,707.9429 E 554,281.2393
C.C. N 1,427,764.3808 E 554,233.7470
Back = S 76° 48' 21.94" E
Ahead = N 49° 55' 10.11" E
Chord Bear = N 76° 33' 24.08" E

Course from PT BLCONST21 to PC BLCONST22 N 49° 55' 10.11" E Dist 265.3757

Curve Data

Curve BLCONST14
P.I. Station 37+48.90 N 1,427,079.2401 E 553,478.9244
Delta = 31° 04' 30.36" (LT)
Degree = 33° 42' 12.24"
Tangent = 47.2652
Length = 92.2017
Radius = 170.0000
External = 6.4483
Long Chord = 91.0757
Mid. Ord. = 6.2126
P.C. Station 37+01.63 N 1,427,063.5431 E 553,434.3418
P.T. Station 37+93.83 N 1,427,115.6961 E 553,509.0068
C.C. N 1,427,223.8944 E 553,377.8842
Back = N 70° 36' 12.61" E
Ahead = N 39° 31' 42.25" E
Chord Bear = N 55° 03' 57.43" E

Curve Data

Curve BLCONST18
P.I. Station 44+69.51 N 1,427,536.4492 E 554,024.8883
Delta = 30° 28' 24.85" (LT)
Degree = 15° 54' 55.78"
Tangent = 98.0581
Length = 191.4711
Radius = 360.0000
External = 13.1158
Long Chord = 189.2223
Mid. Ord. = 12.6547
P.C. Station 43+71.46 N 1,427,500.4323 E 553,933.6843
P.T. Station 45+62.93 N 1,427,613.7441 E 554,085.2280
C.C. N 1,427,835.2690 E 553,801.4556
Back = N 68° 27' 02.48" E
Ahead = N 37° 58' 37.63" E
Chord Bear = N 53° 12' 50.05" E

Curve Data

Curve BLCONST22
P.I. Station 51+31.56 N 1,427,926.0173 E 554,540.3897
Delta = 49° 14' 22.95" (LT)
Degree = 35° 48' 35.50"
Tangent = 73.3208
Length = 137.5032
Radius = 160.0000
External = 15.9998
Long Chord = 133.3107
Mid. Ord. = 14.5453
P.C. Station 50+58.23 N 1,427,878.8087 E 554,484.2890
P.T. Station 51+95.74 N 1,427,999.3329 E 554,541.2595
C.C. N 1,428,001.2311 E 554,381.2708
Back = N 49° 55' 10.11" E
Ahead = N 0° 40' 47.16" E
Chord Bear = N 25° 17' 58.64" E

Curve Data

Curve BLCONST15
P.I. Station 38+82.32 N 1,427,183.9511 E 553,565.3287
Delta = 13° 27' 30.30" (RT)
Degree = 7° 38' 21.97"
Tangent = 88.4924
Length = 176.1702
Radius = 750.0000
External = 5.2026
Long Chord = 175.7655
Mid. Ord. = 5.1667
P.C. Station 37+93.83 N 1,427,115.6961 E 553,509.0068
P.T. Station 39+70.00 N 1,427,237.2234 E 553,635.9896
C.C. N 1,426,638.3506 E 554,087.4887
Back = N 39° 31' 42.25" E
Ahead = N 52° 59' 12.55" E
Chord Bear = N 46° 15' 27.40" E

Curve Data

Curve BLCONST19
P.I. Station 45+89.81 N 1,427,634.9358 E 554,101.7710
Delta = 12° 16' 32.21" (RT)
Degree = 22° 55' 05.92"
Tangent = 26.8842
Length = 53.5625
Radius = 250.0000
External = 1.4414
Long Chord = 53.4601
Mid. Ord. = 1.4331
P.C. Station 45+62.93 N 1,427,613.7441 E 554,085.2280
P.T. Station 46+16.49 N 1,427,652.1255 E 554,122.4415
C.C. N 1,427,459.9075 E 554,282.2921
Back = N 37° 58' 37.63" E
Ahead = N 50° 15' 09.84" E
Chord Bear = N 44° 06' 53.74" E

Curve Data

Curve BLCONST23
P.I. Station 52+84.49 N 1,428,088.0835 E 554,542.3126
Delta = 58° 02' 12.85" (RT)
Degree = 35° 48' 35.50"
Tangent = 88.7568
Length = 162.0696
Radius = 160.0000
External = 22.9693
Long Chord = 155.2292
Mid. Ord. = 20.0858
P.C. Station 51+95.74 N 1,427,999.3329 E 554,541.2595
P.T. Station 53+57.81 N 1,428,134.1723 E 554,618.1650
C.C. N 1,427,997.4347 E 554,701.2483
Back = N 0° 40' 47.16" E
Ahead = N 58° 43' 00.01" E
Chord Bear = N 29° 41' 53.59" E

Course from PT BLCONST23 to PC BLCONST24 N 58° 43' 00.01" E Dist 102.4543

Curve Data

Curve BLCONST16
P.I. Station 42+08.69 N 1,427,380.9159 E 553,826.5846
Delta = 22° 34' 23.61" (LT)
Degree = 17° 37' 46.09"
Tangent = 64.8624
Length = 128.0426
Radius = 325.0000
External = 6.4093
Long Chord = 127.2161
Mid. Ord. = 6.2854
P.C. Station 41+43.83 N 1,427,341.8687 E 553,774.7922
P.T. Station 42+71.87 N 1,427,436.8528 E 553,859.4205
C.C. N 1,427,601.3803 E 553,579.1426
Back = N 52° 59' 12.55" E
Ahead = N 30° 24' 48.94" E
Chord Bear = N 41° 42' 00.74" E

Curve Data

Curve BLCONST20
P.I. Station 46+92.85 N 1,427,700.9497 E 554,181.1518
Delta = 52° 56' 28.21" (RT)
Degree = 77° 40' 37.60"
Tangent = 36.7288
Length = 68.1554
Radius = 73.7615
External = 8.6385
Long Chord = 65.7566
Mid. Ord. = 7.7329
P.C. Station 46+56.12 N 1,427,677.4652 E 554,152.9121
P.T. Station 47+24.27 N 1,427,692.5664 E 554,216.9112
C.C. N 1,427,620.7520 E 554,200.0753
Back = N 50° 15' 09.84" E
Ahead = S 76° 48' 21.94" E
Chord Bear = N 76° 43' 23.95" E

Curve Data

Curve BLCONST24
P.I. Station 55+28.98 N 1,428,223.0566 E 554,764.4500
Delta = 14° 14' 36.01" (LT)
Degree = 10° 25' 02.69"
Tangent = 68.7174
Length = 136.7262
Radius = 550.0000
External = 4.2762
Long Chord = 136.3744
Mid. Ord. = 4.2432
P.C. Station 54+60.26 N 1,428,187.3738 E 554,705.7234
P.T. Station 55+96.99 N 1,428,272.0918 E 554,812.5918
C.C. N 1,428,657.4092 E 554,420.1247
Back = N 58° 43' 00.01" E
Ahead = N 44° 28' 24.00" E
Chord Bear = N 51° 35' 42.00" E

Course from PT BLCONST24 to PC BLCONST25 N 44° 28' 24.00" E Dist 48.4530

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DATE	DESCRIPTION	DATE	DESCRIPTION				

Curve Data

Curve BLCONST25
P.I. Station 56+86.48 N 1,428,335.9527 E 554,875.2894
Delta = 22° 06' 58.99" (RT)
Degree = 27° 17' 01.34"
Tangent = 41.0413
Length = 81.0608
Radius = 210.0000
External = 3.9729
Long Chord = 80.5585
Mid. Ord. = 3.8991
P.C. Station 56+45.44 N 1,428,306.6667 E 554,846.5369
P.T. Station 57+26.50 N 1,428,352.2589 E 554,912.9523
C.C. N 1,428,159.5454 E 554,996.3879
Back = N 44° 28' 24.00" E
Ahead = N 66° 35' 22.98" E
Chord Bear = N 55° 31' 53.49" E

Course from PT BLCONST25 to PC BLCONST26 N 66° 35' 22.98" E Dist 173.6044

Curve Data

Curve BLCONST26
P.I. Station 59+86.65 N 1,428,455.6190 E 555,151.6857
Delta = 34° 21' 03.97" (LT)
Degree = 20° 27' 46.00"
Tangent = 86.5436
Length = 167.8712
Radius = 280.0000
External = 13.0696
Long Chord = 165.3682
Mid. Ord. = 12.4868
P.C. Station 59+00.11 N 1,428,421.2342 E 555,072.2662
P.T. Station 60+67.98 N 1,428,528.8205 E 555,197.8521
C.C. N 1,428,678.1855 E 554,961.0186
Back = N 66° 35' 22.98" E
Ahead = N 32° 14' 19.02" E
Chord Bear = N 49° 24' 51.00" E

Course from PT BLCONST26 to PC BLCONST27 N 32° 14' 19.02" E Dist 75.7697

Curve Data

Curve BLCONST27
P.I. Station 62+05.55 N 1,428,645.1808 E 555,271.2377
Delta = 34° 20' 30.49" (RT)
Degree = 28° 38' 52.40"
Tangent = 61.7991
Length = 119.8755
Radius = 200.0000
External = 9.3302
Long Chord = 118.0891
Mid. Ord. = 8.9143
P.C. Station 61+43.75 N 1,428,592.9090 E 555,238.2712
P.T. Station 62+63.62 N 1,428,669.7435 E 555,327.9456
C.C. N 1,428,486.2197 E 555,407.4379
Back = N 32° 14' 19.02" E
Ahead = N 66° 34' 49.51" E
Chord Bear = N 49° 24' 34.27" E

Curve Data

Curve BLCONST28
P.I. Station 62+97.55 N 1,428,683.2302 E 555,359.0822
Delta = 15° 27' 31.64" (LT)
Degree = 22° 55' 05.92"
Tangent = 33.9319
Length = 67.4517
Radius = 250.0000
External = 2.2922
Long Chord = 67.2473
Mid. Ord. = 2.2714
P.C. Station 62+63.62 N 1,428,669.7435 E 555,327.9456
P.T. Station 63+31.07 N 1,428,704.5282 E 555,385.4976
C.C. N 1,428,899.1482 E 555,228.5803
Back = N 66° 34' 49.51" E
Ahead = N 51° 07' 17.87" E
Chord Bear = N 58° 51' 03.69" E

Course from PT BLCONST28 to PC BLCONST29 N 51° 07' 17.87" E Dist 246.3422

Curve Data

Curve BLCONST29
P.I. Station 66+34.62 N 1,428,895.0572 E 555,621.8053
Delta = 41° 45' 08.20" (RT)
Degree = 38° 11' 49.87"
Tangent = 57.2079
Length = 109.3072
Radius = 150.0000
External = 10.5389
Long Chord = 106.9047
Mid. Ord. = 9.8471
P.C. Station 65+77.42 N 1,428,859.1496 E 555,577.2701
P.T. Station 66+86.72 N 1,428,892.1889 E 555,678.9412
C.C. N 1,428,742.3776 E 555,671.4204
Back = N 51° 07' 17.87" E
Ahead = S 87° 07' 33.93" E
Chord Bear = N 71° 59' 51.97" E

Course from PT BLCONST29 to PC BLCONST30 S 87° 07' 33.93" E Dist 146.9616

Curve Data

Curve BLCONST30
P.I. Station 68+77.72 N 1,428,882.6129 E 555,869.6933
Delta = 5° 02' 32.27" (LT)
Degree = 5° 43' 46.48"
Tangent = 44.0308
Length = 88.0047
Radius = 1,000.0000
External = 0.9689
Long Chord = 87.9763
Mid. Ord. = 0.9679
P.C. Station 68+33.68 N 1,428,884.8205 E 555,825.7179
P.T. Station 69+21.69 N 1,428,884.2789 E 555,913.6926
C.C. N 1,429,883.5628 E 555,875.8561
Back = S 87° 07' 33.93" E
Ahead = N 87° 49' 53.80" E
Chord Bear = S 89° 38' 50.07" E

Course from PT BLCONST30 to PC BLCONST31 N 87° 49' 53.80" E Dist 120.6348

Curve Data

Curve BLCONST31
P.I. Station 70+90.27 N 1,428,890.6574 E 556,082.1529
Delta = 5° 29' 24.11" (RT)
Degree = 5° 43' 46.48"
Tangent = 47.9462
Length = 95.8191
Radius = 1,000.0000
External = 1.1488
Long Chord = 95.7825
Mid. Ord. = 1.1474
P.C. Station 70+42.32 N 1,428,888.8433 E 556,034.2410
P.T. Station 71+38.14 N 1,428,887.8793 E 556,130.0186
C.C. N 1,427,889.5593 E 556,072.0775
Back = N 87° 49' 53.80" E
Ahead = S 86° 40' 42.09" E
Chord Bear = S 89° 25' 24.15" E

Course from PT BLCONST31 to PC BLCONST32 S 86° 40' 42.09" E Dist 91.8216

Curve Data

Curve BLCONST32
P.I. Station 72+90.15 N 1,428,879.0716 E 556,281.7747
Delta = 6° 53' 20.19" (LT)
Degree = 5° 43' 46.48"
Tangent = 60.1899
Length = 120.2347
Radius = 1,000.0000
External = 1.8098
Long Chord = 120.1623
Mid. Ord. = 1.8065
P.C. Station 72+29.97 N 1,428,882.5591 E 556,221.6859
P.T. Station 73+50.20 N 1,428,882.8167 E 556,341.8480
C.C. N 1,429,880.8791 E 556,279.6271
Back = S 86° 40' 42.09" E
Ahead = N 86° 25' 57.72" E
Chord Bear = N 89° 52' 37.81" E

Course from PT BLCONST32 to PC BLCONST33 N 86° 25' 57.72" E Dist 12.7128

Curve Data

Curve BLCONST33
P.I. Station 73+98.62 N 1,428,885.8293 E 556,390.1722
Delta = 4° 05' 23.21" (RT)
Degree = 5° 43' 46.48"
Tangent = 35.7052
Length = 71.3801
Radius = 1,000.0000
External = 0.6372
Long Chord = 71.3650
Mid. Ord. = 0.6368
P.C. Station 73+62.91 N 1,428,883.6077 E 556,354.5362
P.T. Station 74+34.29 N 1,428,885.5037 E 556,425.8760
C.C. N 1,427,885.5453 E 556,416.7571
Back = N 86° 25' 57.72" E
Ahead = S 89° 28' 39.07" E
Chord Bear = N 88° 28' 39.33" E

Course from PT BLCONST33 to BEG2 S 89° 28' 39.07" E Dist 108.1274

Point BEG2 N 1,428,884.5177 E 556,533.9989 Sta 75+42.42

Course from BEG2 to PC BLCONST34 N 0° 31' 20.93" E Dist 141.9884

Curve Data

Curve BLCONST34
P.I. Station 77+96.72 N 1,429,138.8053 E 556,536.3178
Delta = 28° 08' 49.94" (RT)
Degree = 12° 47' 21.55"
Tangent = 112.3097
Length = 220.0837
Radius = 447.9971
External = 13.8631
Long Chord = 217.8772
Mid. Ord. = 13.4470
P.C. Station 76+84.41 N 1,429,026.5002 E 556,535.2937
P.T. Station 79+04.49 N 1,429,237.3458 E 556,590.1994
C.C. N 1,429,022.4150 E 556,983.2721
Back = N 0° 31' 20.93" E
Ahead = N 28° 40' 10.88" E
Chord Bear = N 14° 35' 45.90" E

Course from PT BLCONST34 to PC BLCONST35 N 40° 47' 37.88" E Dist 42.7789

Curve Data

Curve BLCONST35
P.I. Station 80+02.98 N 1,429,315.8572 E 556,649.3915
Delta = 14° 23' 59.07" (RT)
Degree = 12° 59' 32.06"
Tangent = 55.7102
Length = 110.8334
Radius = 441.0000
External = 3.5049
Long Chord = 110.5419
Mid. Ord. = 3.4773
P.C. Station 79+47.27 N 1,429,269.7322 E 556,618.1486
P.T. Station 80+58.10 N 1,429,352.7635 E 556,691.1234
C.C. N 1,429,022.4150 E 556,983.2721
Back = N 34° 06' 42.62" E
Ahead = N 48° 30' 41.69" E
Chord Bear = N 41° 18' 42.16" E

Course from PT BLCONST35 to BEG3 N 48° 30' 41.69" E Dist 103.6359

Point BEG3 N 1,429,421.4190 E 556,768.7560 Sta 81+61.74

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Ending chain BLCONST description

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DATE	DESCRIPTION	DATE	DESCRIPTION				
					KISSIMMEE - ST. CLOUD CONNECTOR TRAIL		

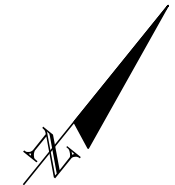
HORIZONTAL CONTROL MONUMENTS

POINT NO. DESCRIPTION STA. OFFSET NORTHING EASTING ELEV.

PROJECT BENCHMARKS

BM NO. DESCRIPTION STA. OFFSET NORTHING EASTING ELEV.

<i>REVISIONS</i>		 KELLY, COLLINS & GENTRY, INC. ENGINEERING / PLANNING 1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804 407-898-7858 CERT. OF AUTHORIZATION NO. 7350 STEVEN M. KREIDT, P.E. LICENSE NO. 39540	<i>OSCEOLA COUNTY</i>	<i>PROJECT CONTROL DATA</i>	<i>SHEET NO.</i>
<i>DATE</i>	<i>DESCRIPTION</i>		<i>DATE</i>		<i>DESCRIPTION</i>



BEGIN PROJECT
STA. 4+00.00

END PROJECT
STA. 81+61.74

NEPTUNE RD

C-31 CANAL

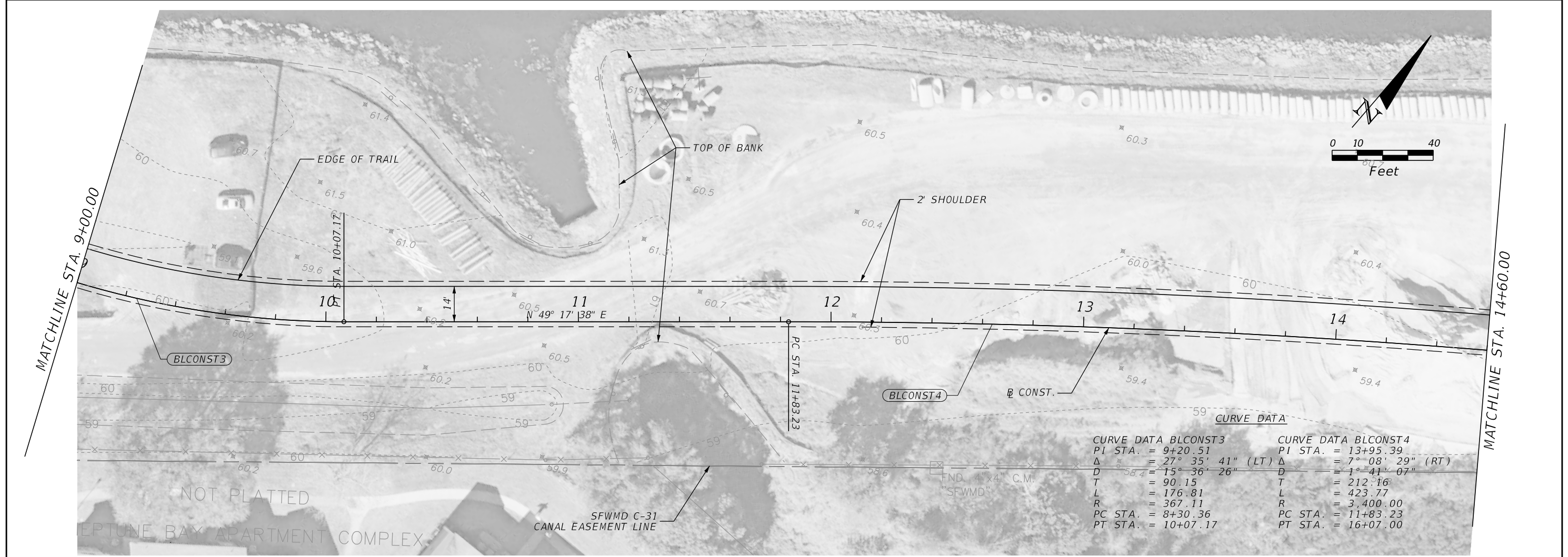
US HIGHWAY 192

BROWN CHAPEL RD

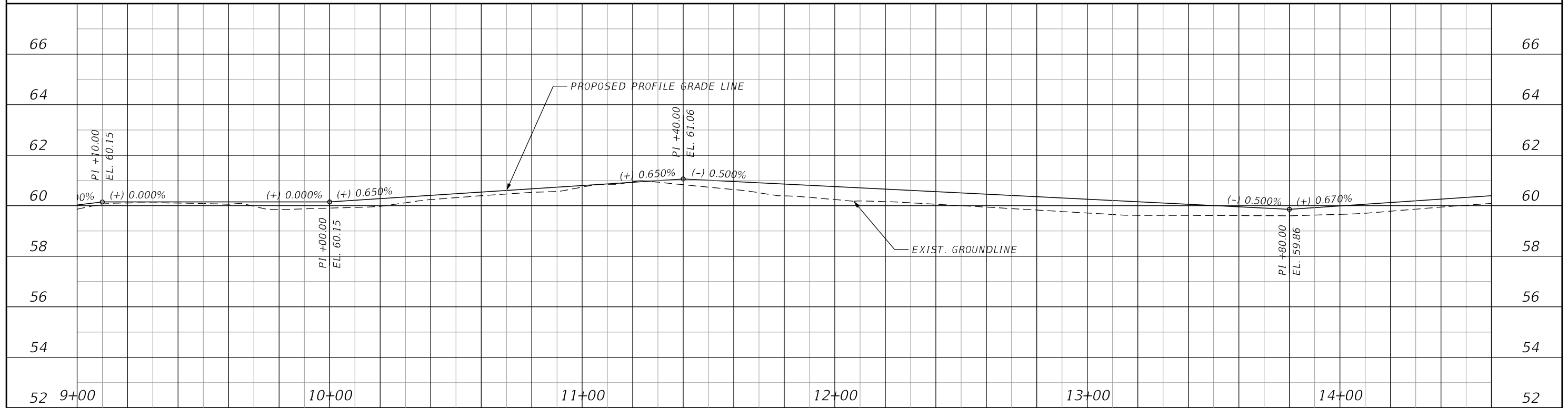
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(XX) PLAN & PROFILE SHEET NUMBER

REVISIONS				 KELLY, COLLINS & GENTRY, INC. ENGINEERING / PLANNING <small>1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804 407-898-7858 CERT. OF AUTHORIZATION NO. 7350 STEVEN M. KREIDT, P.E. LICENSE NO. 39540</small>	OSCEOLA COUNTY KISSIMMEE - ST. CLOUD CONNECTOR TRAIL	PROJECT LAYOUT	SHEET NO. 10
DATE	DESCRIPTION	DATE	DESCRIPTION				



CURVE DATA BLCONST3		CURVE DATA BLCONST4	
PI STA.	= 9+20.51	PI STA.	= 13+95.39
Δ	= 27° 35' 41" (LT)	Δ	= 7° 08' 29" (RT)
D	= 58.4 = 15' 36" 26"	D	= 1° 41' 07"
T	= 90.15	T	= 212.16
L	= 176.81	L	= 423.77
R	= 367.11	R	= 3,400.00
PC STA.	= 8+30.36	PC STA.	= 11+83.23
PT STA.	= 10+07.17	PT STA.	= 16+07.00

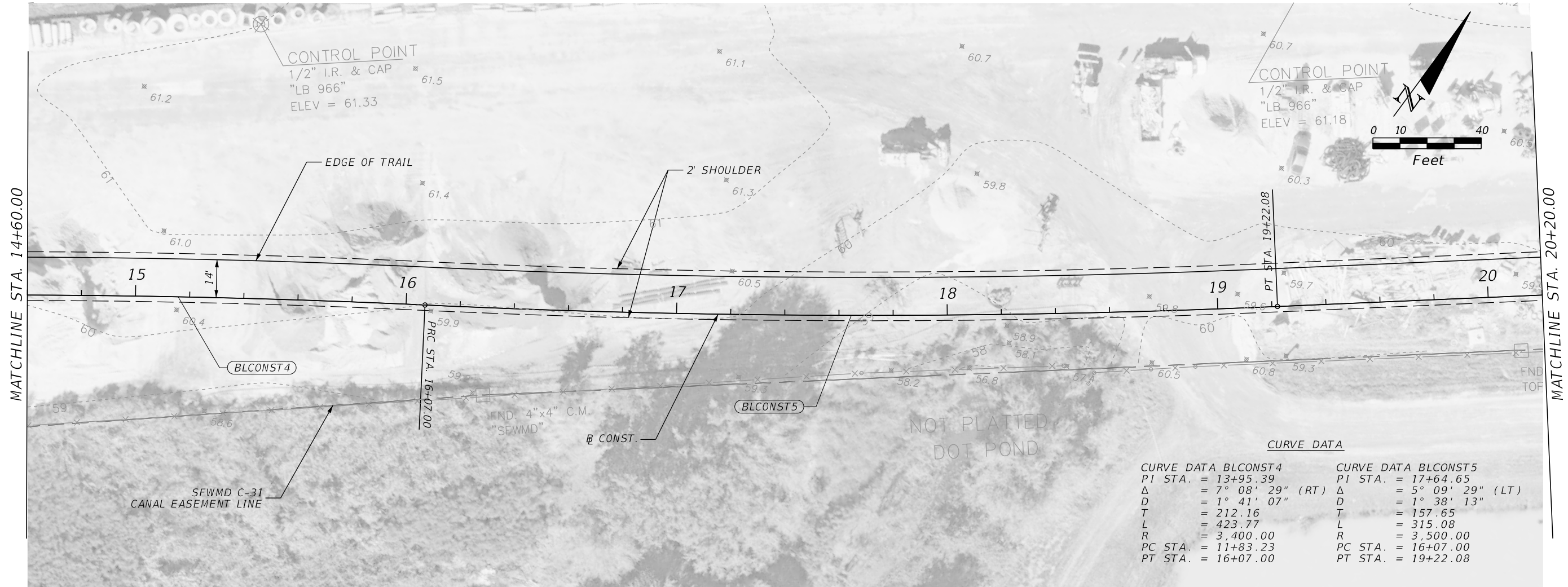


REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

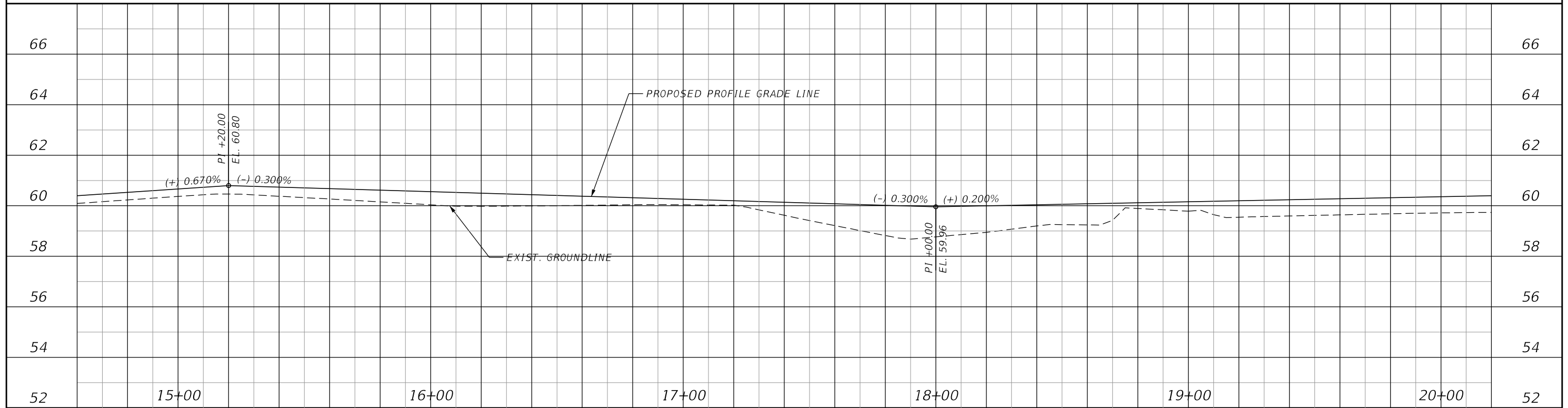
KCG
KELLY, COLLINS & GENTRY, INC.
 ENGINEERING / PLANNING
 1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804
 407-898-7858 CERT. OF AUTHORIZATION NO. 7350
 STEVEN M. KREIDT, P.E. LICENSE NO. 39540

OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

PLAN & PROFILE
 SHEET NO. 12



CURVE DATA	
CURVE DATA BLCONST4	CURVE DATA BLCONST5
PI STA. = 13+95.39	PI STA. = 17+64.65
Δ = 7° 08' 29" (RT)	Δ = 5° 09' 29" (LT)
D = 1° 41' 07"	D = 1° 38' 13"
T = 212.16	T = 157.65
L = 423.77	L = 315.08
R = 3,400.00	R = 3,500.00
PC STA. = 11+83.23	PC STA. = 16+07.00
PT STA. = 16+07.00	PT STA. = 19+22.08

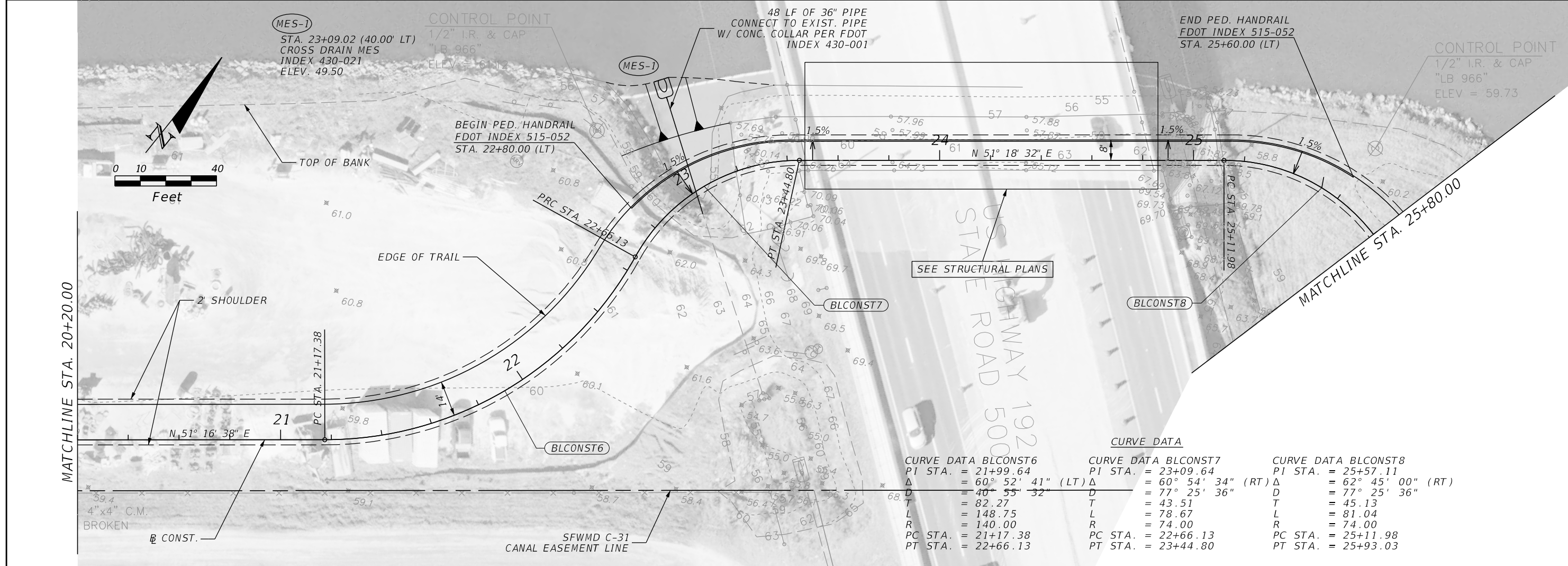


REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

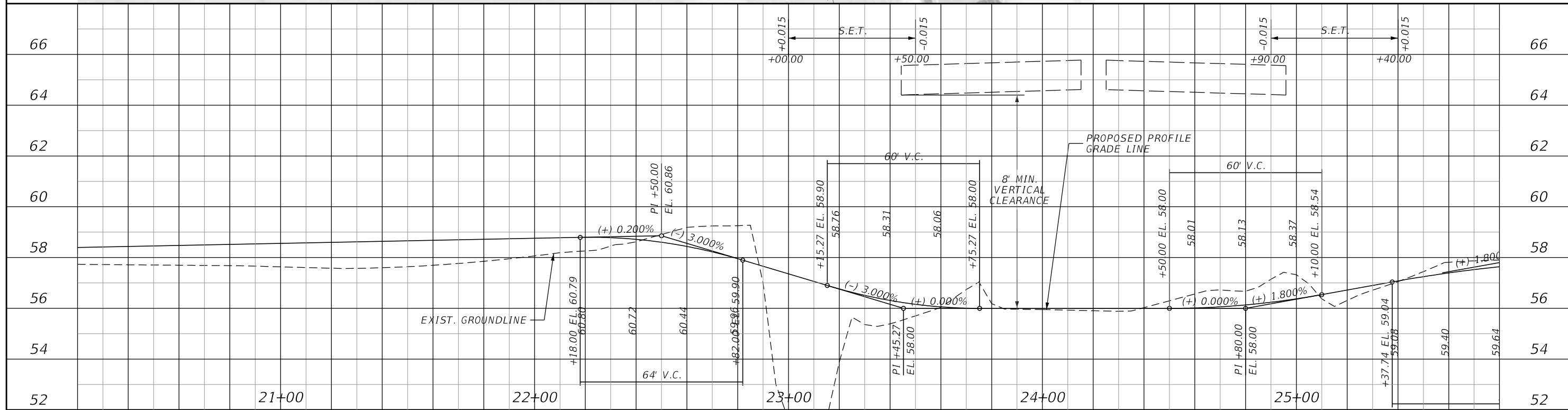
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 407-898-7858 CERT. OF AUTHORIZATION NO. 7350
 STEVEN M. KREIDT, P.E. LICENSE NO. 39540

OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

PLAN & PROFILE
 SHEET NO. 13



CURVE DATA BLCNST6	CURVE DATA BLCNST7	CURVE DATA BLCNST8
PI STA. = 21+99.64	PI STA. = 23+09.64	PI STA. = 25+57.11
$\Delta = 60^\circ 52' 41''$ (LT)	$\Delta = 60^\circ 54' 34''$ (RT)	$\Delta = 62^\circ 45' 00''$ (RT)
D = 40' 55' 32"	D = 77' 25' 36"	D = 77' 25' 36"
T = 82.27	T = 43.51	T = 45.13
L = 148.75	L = 78.67	L = 81.04
R = 140.00	R = 74.00	R = 74.00
PC STA. = 21+17.38	PC STA. = 22+66.13	PC STA. = 25+11.98
PT STA. = 22+66.13	PT STA. = 23+44.80	PT STA. = 25+93.03



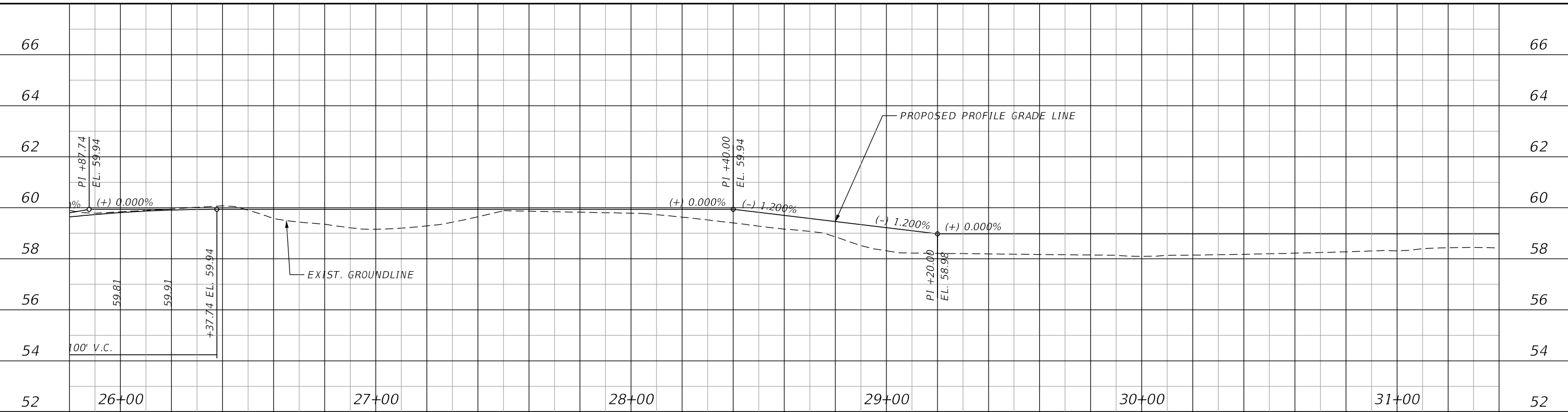
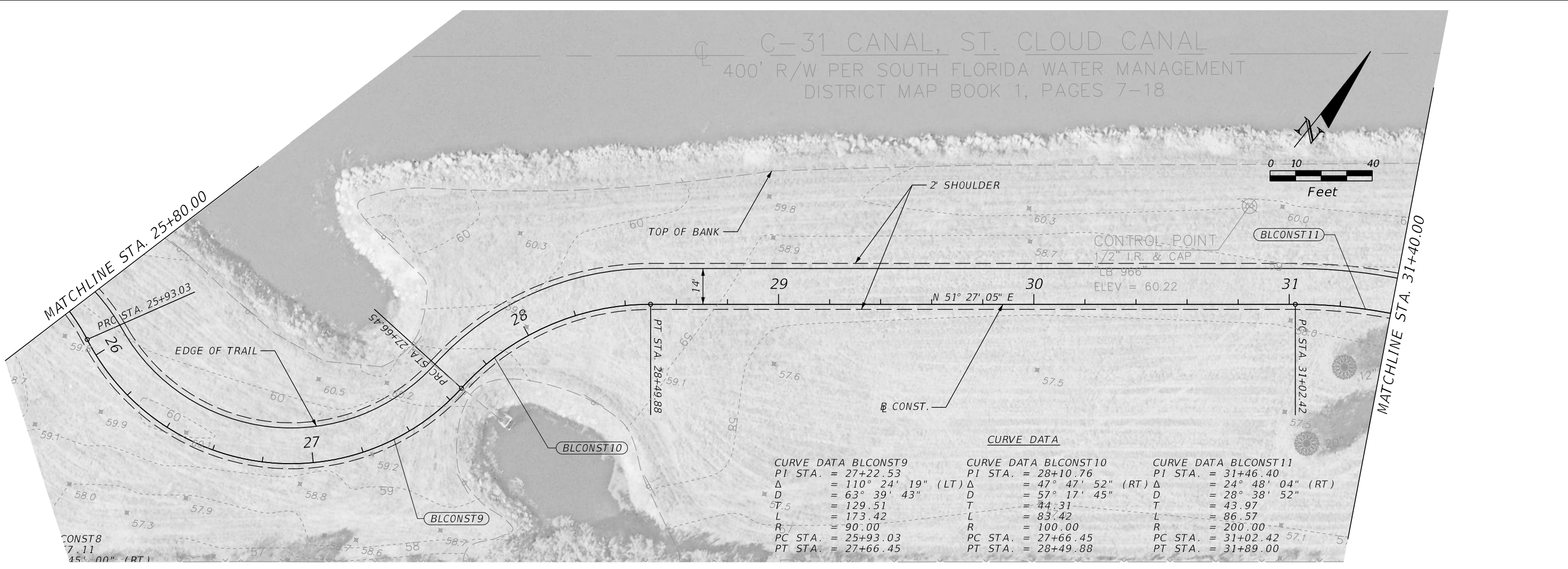
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KCG KELLY, COLLINS & GENTRY, INC.
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 1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804
 407-898-7858 CERT. OF AUTHORIZATION NO. 7350
 STEVEN M. KREIDT, P.E. LICENSE NO. 39540

OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

PLAN & PROFILE
 SHEET NO. 14

C-31 CANAL, ST. CLOUD CANAL
 400' R/W PER SOUTH FLORIDA WATER MANAGEMENT
 DISTRICT MAP BOOK 1, PAGES 7-18



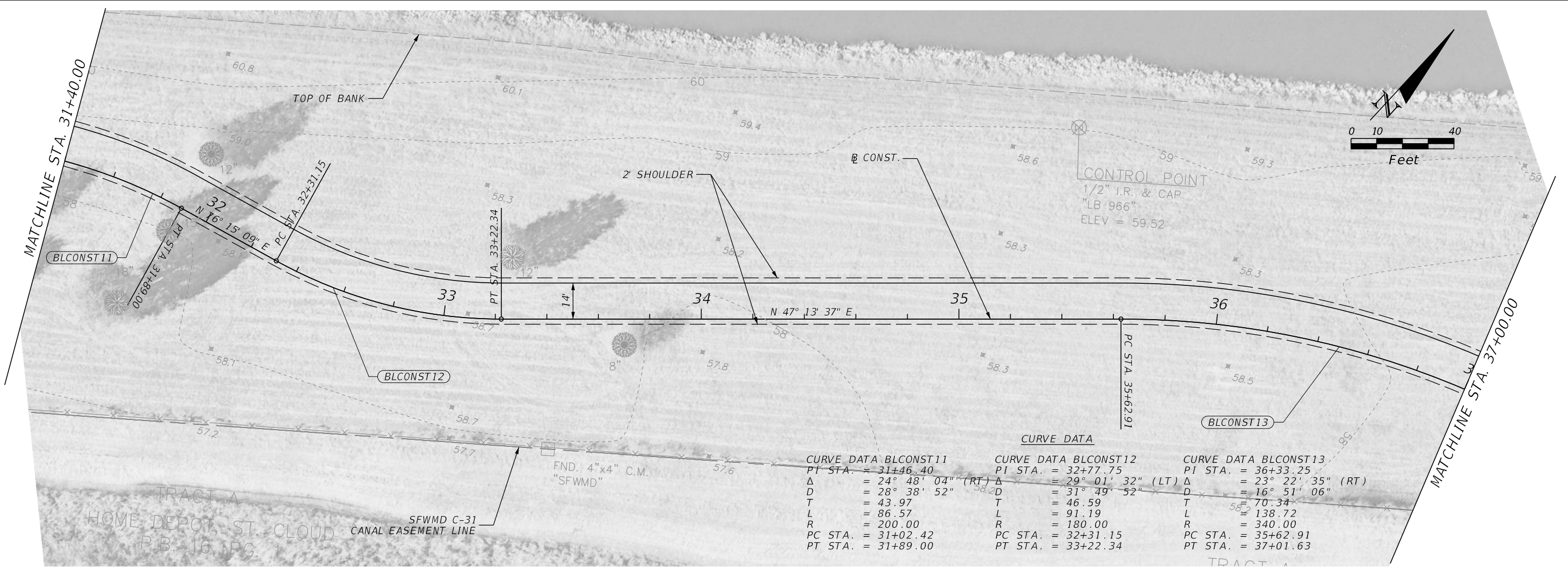
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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KELLY, COLLINS & GENTRY, INC.
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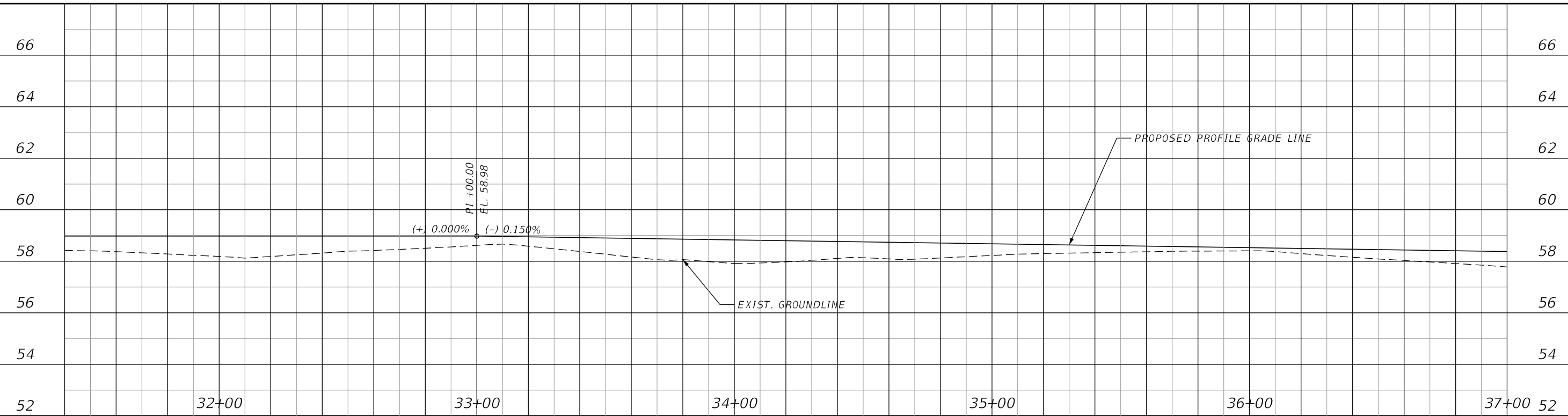
OSCEOLA COUNTY
KISSIMMEE - ST. CLOUD
CONNECTOR TRAIL

PLAN & PROFILE

SHEET NO.
15



CURVE DATA		
CURVE DATA BLCONST11	CURVE DATA BLCONST12	CURVE DATA BLCONST13
PI STA. = 31+46.40	PI STA. = 32+77.75	PI STA. = 36+33.25
Δ = 24° 48' 04" (RT)	Δ = 29° 01' 32" (LT)	Δ = 23° 22' 35" (RT)
D = 28° 38' 52"	D = 31° 49' 52"	D = 16° 51' 06"
T = 43.97	T = 46.59	T = 70.34
L = 86.57	L = 91.19	L = 138.72
R = 200.00	R = 180.00	R = 340.00
PC STA. = 31+02.42	PC STA. = 32+31.15	PC STA. = 35+62.91
PT STA. = 31+89.00	PT STA. = 33+22.34	PT STA. = 37+01.63



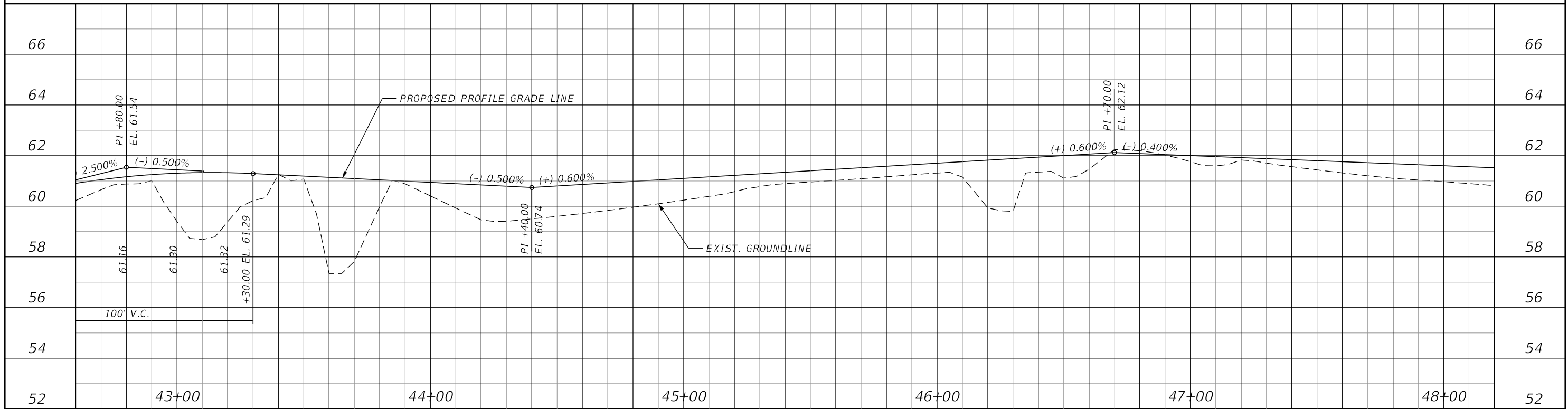
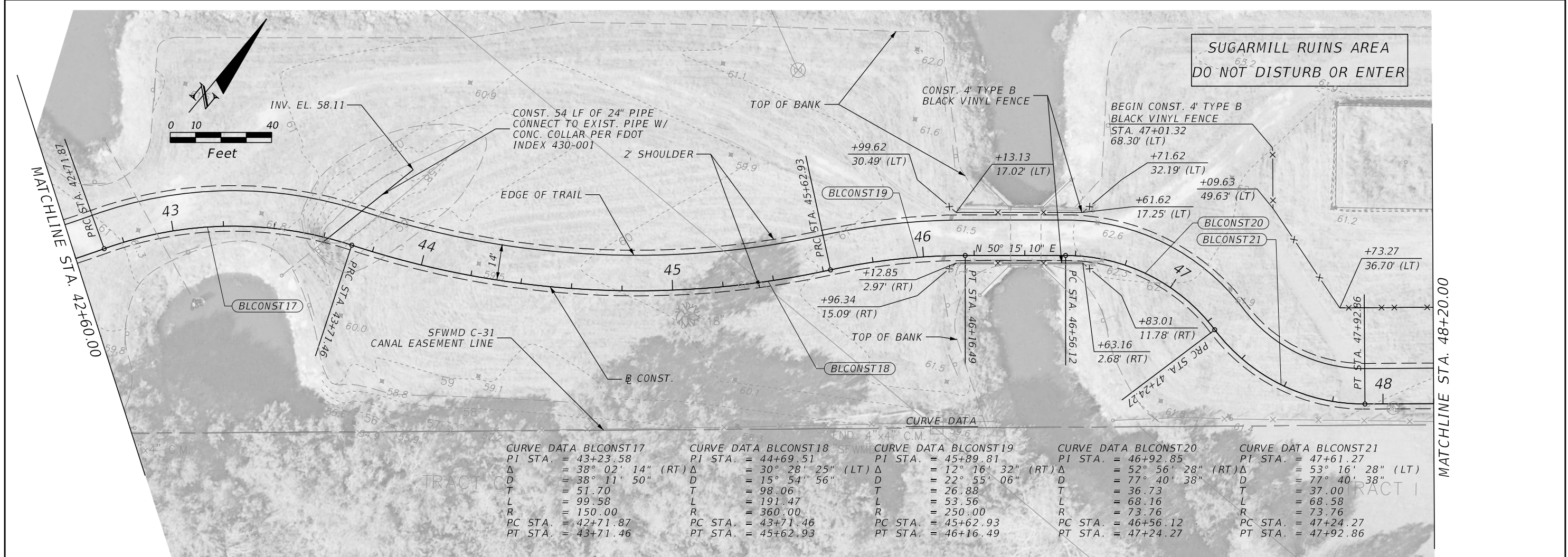
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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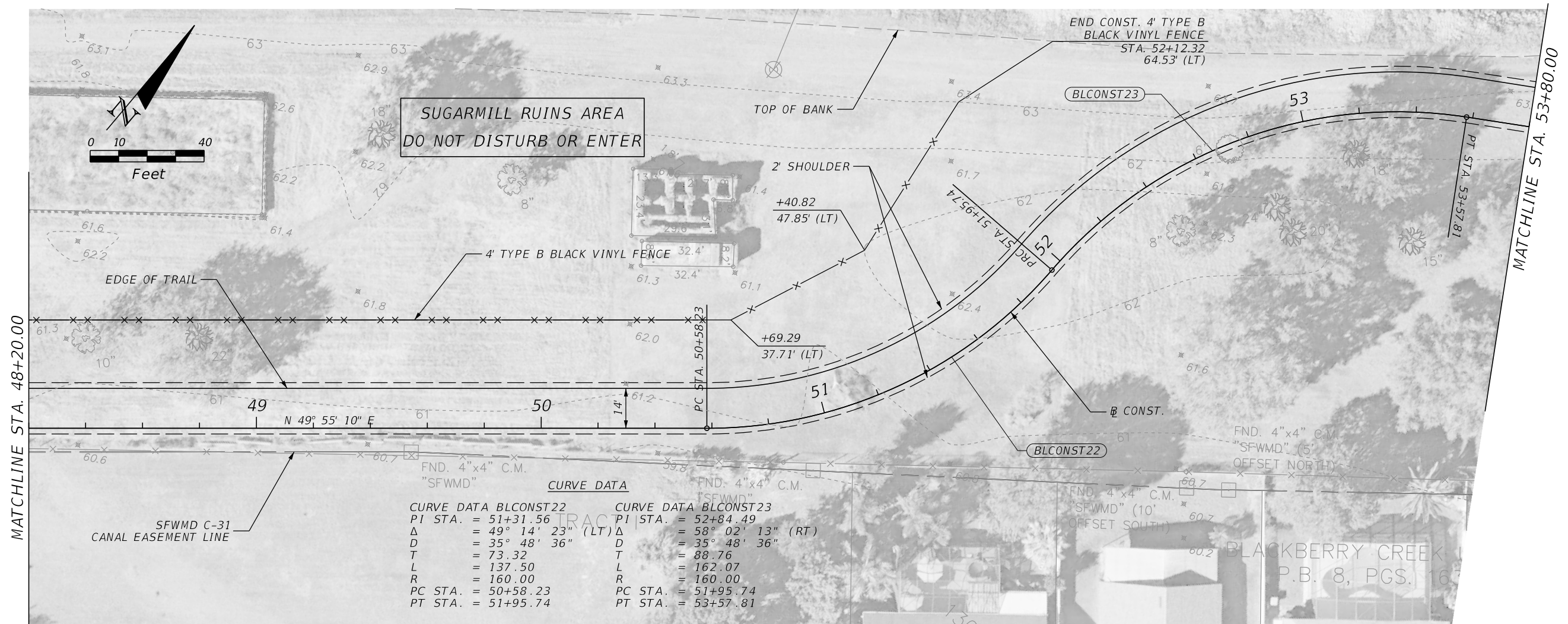
OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

PLAN & PROFILE

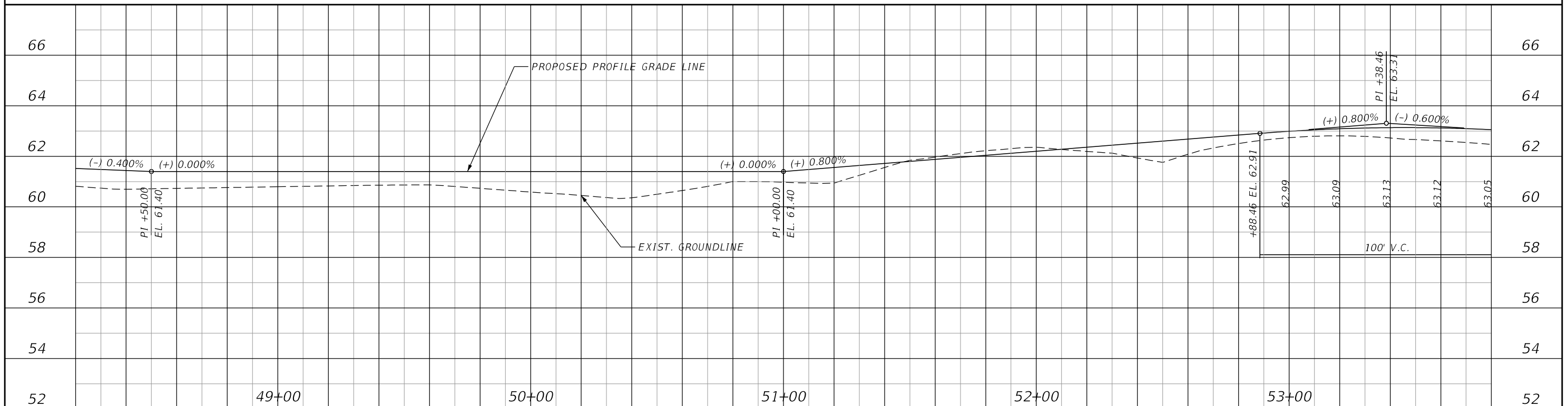
SHEET NO.
 16



REVISIONS		REVISIONS		KCG	KELLY, COLLINS & GENTRY, INC. ENGINEERING / PLANNING 1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804 407-898-7858 CERT. OF AUTHORIZATION NO. 7350 STEVEN M. KREIDT, P.E. LICENSE NO. 39540	OSCEOLA COUNTY	KISSIMMEE - ST. CLOUD CONNECTOR TRAIL	PLAN & PROFILE	SHEET NO. 18
DATE	DESCRIPTION	DATE	DESCRIPTION						



CURVE DATA		CURVE DATA	
BLCONST22		BLCONST23	
PI STA. = 51+31.56	Δ = 49° 14' 23" (LT)	PI STA. = 52+84.49	Δ = 58° 02' 13" (RT)
D = 35° 48' 36"	T = 73.32	D = 35° 48' 36"	T = 88.76
L = 137.50	R = 160.00	L = 162.07	R = 160.00
PC STA. = 50+58.23	PT STA. = 51+95.74	PC STA. = 51+95.74	PT STA. = 53+57.81



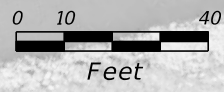
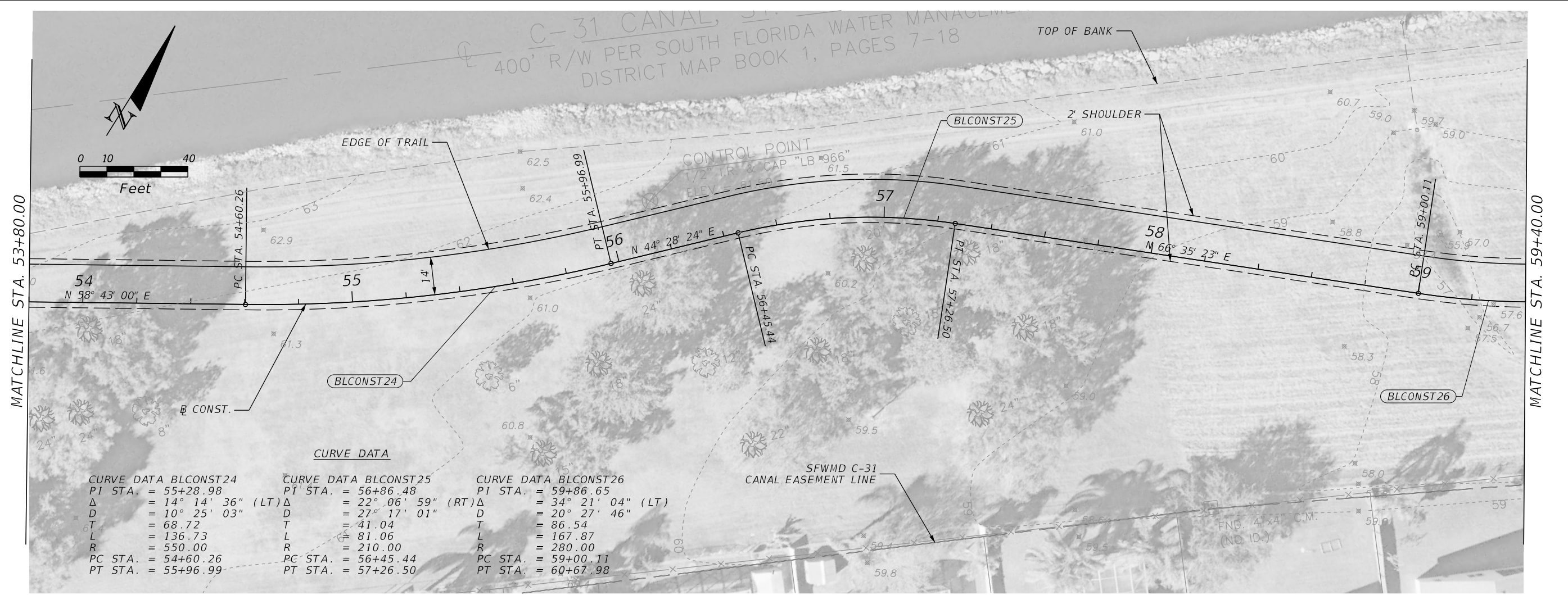
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

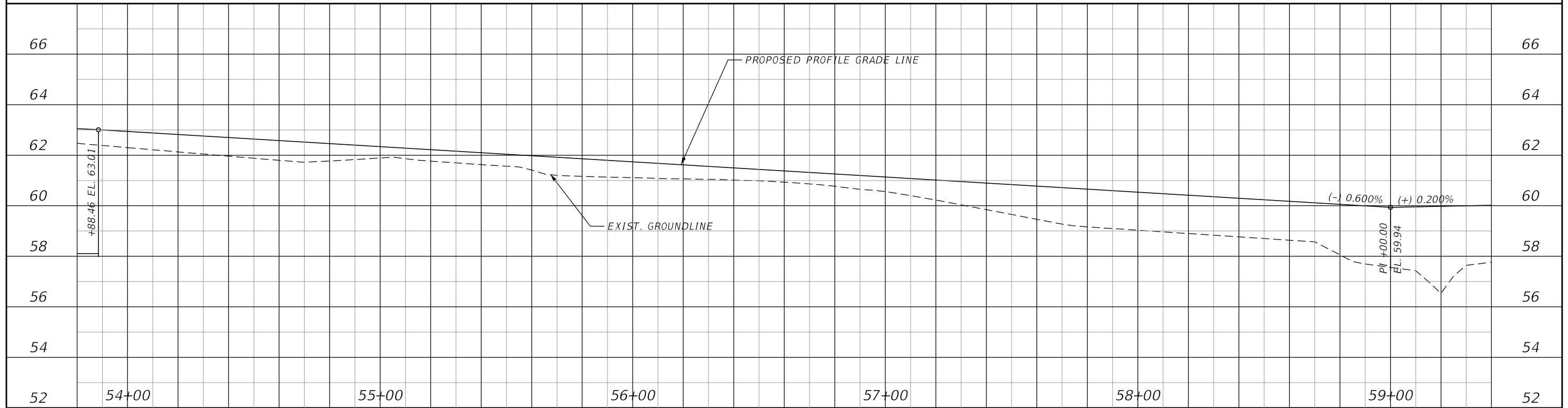
PLAN & PROFILE
 SHEET NO. 19

C-31 CANAL, ST. CLOUD
 400' R/W PER SOUTH FLORIDA WATER MANAGEMENT DISTRICT MAP BOOK 1, PAGES 7-18



CURVE DATA

CURVE DATA BLCONST24	CURVE DATA BLCONST25	CURVE DATA BLCONST26
PI STA. = 55+28.98	PI STA. = 56+86.48	PI STA. = 59+86.65
Δ = 14° 14' 36" (LT)	Δ = 22° 06' 59" (RT)	Δ = 34° 21' 04" (LT)
D = 10° 25' 03"	D = 27° 17' 01"	D = 20° 27' 46"
T = 68.72	T = 41.04	T = 86.54
L = 136.73	L = 81.06	L = 167.87
R = 550.00	R = 210.00	R = 280.00
PC STA. = 54+60.26	PC STA. = 56+45.44	PC STA. = 59+00.11
PT STA. = 55+96.99	PT STA. = 57+26.50	PT STA. = 60+67.98



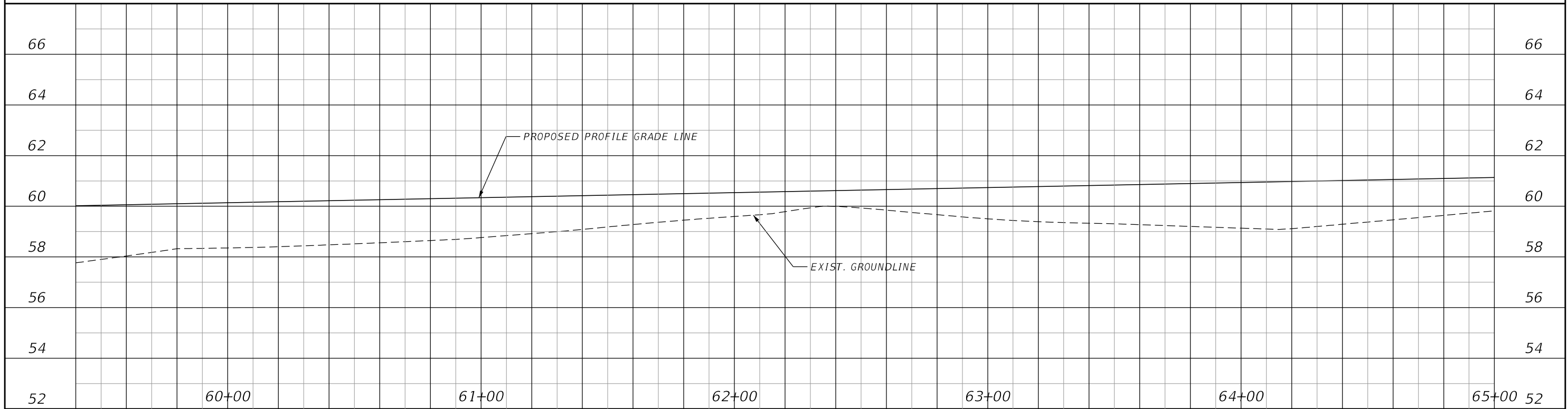
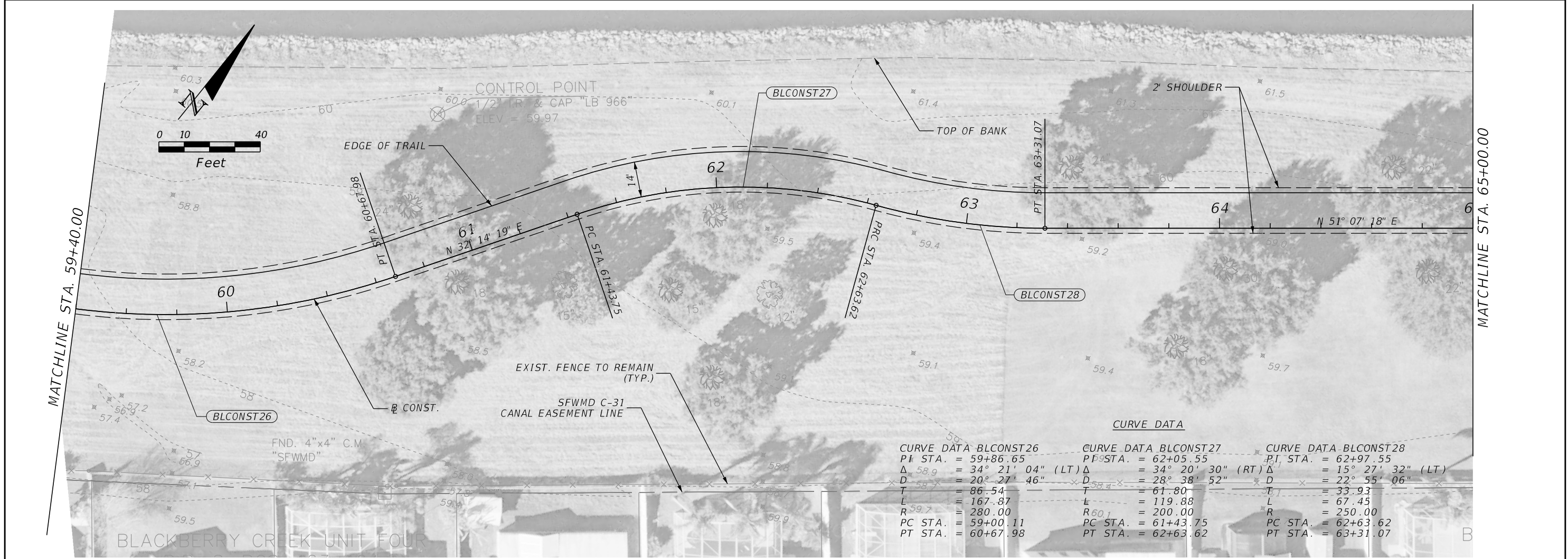
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

PLAN & PROFILE

SHEET NO.
 20



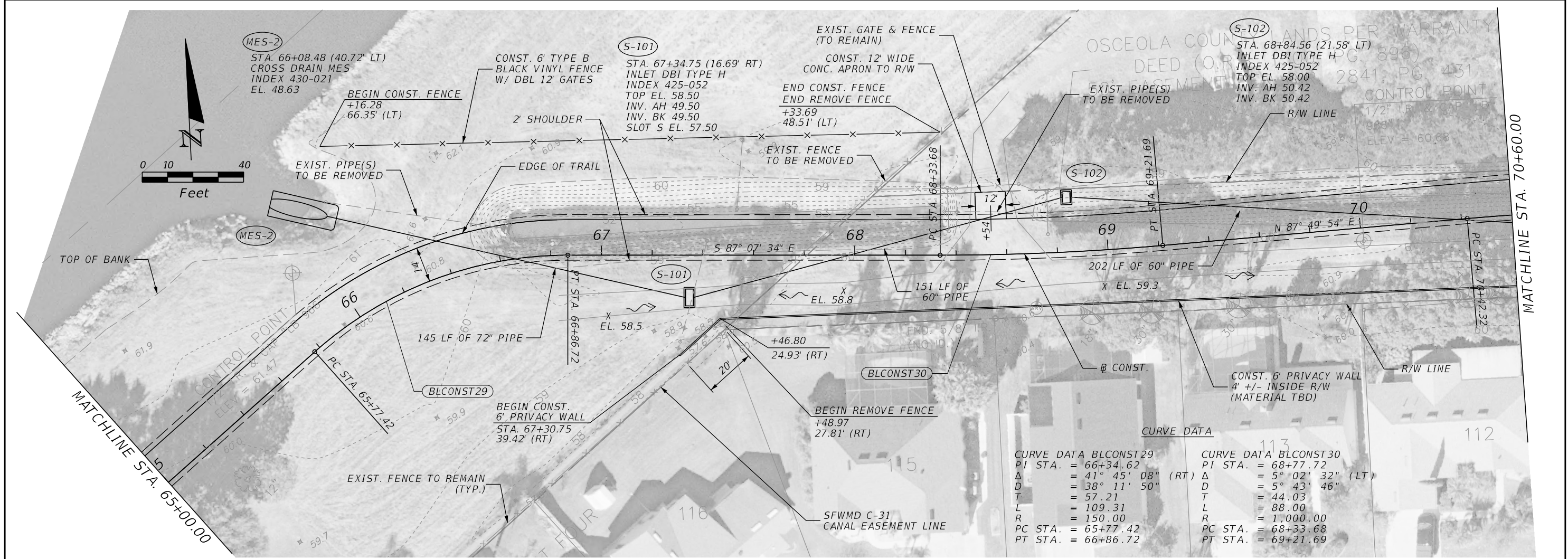
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DATE	DESCRIPTION	DATE	DESCRIPTION

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OSCEOLA COUNTY
KISSIMMEE - ST. CLOUD CONNECTOR TRAIL

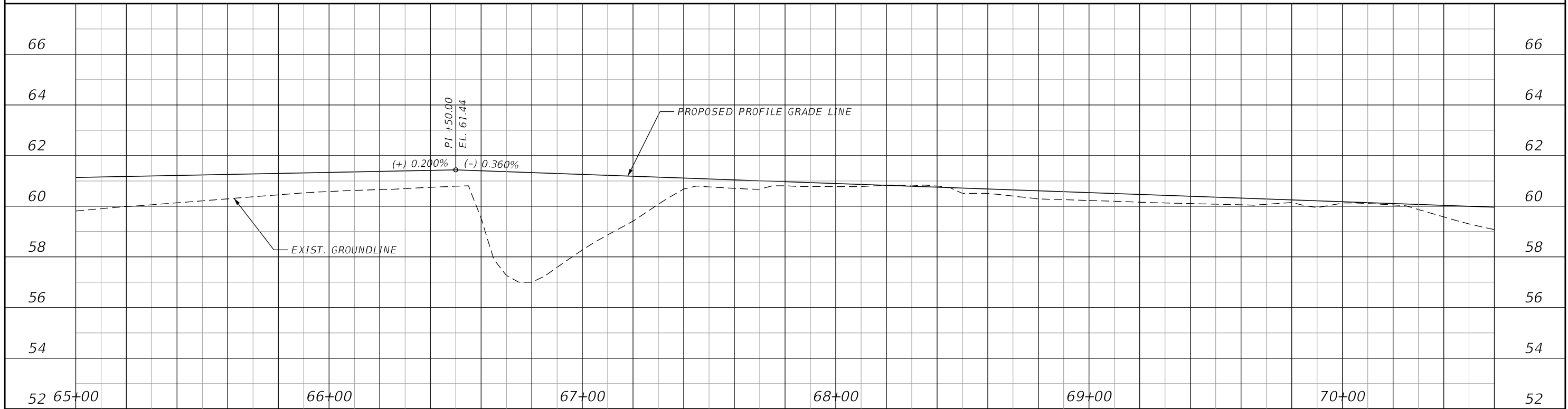
PLAN & PROFILE

SHEET NO.
 21



CURVE DATA

CURVE DATA BLCONST29		CURVE DATA BLCONST30	
PI STA.	= 66+34.62	PI STA.	= 68+77.72
Δ	= 41° 45' 08" (RT)	Δ	= 5° 02' 32" (LT)
D	= 38' 11' 50"	D	= 5' 43' 46"
T	= 57.21	T	= 44.03
L	= 109.31	L	= 88.00
R	= 150.00	R	= 1,000.00
PC STA.	= 65+77.42	PC STA.	= 68+33.68
PT STA.	= 66+86.72	PT STA.	= 69+21.69



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

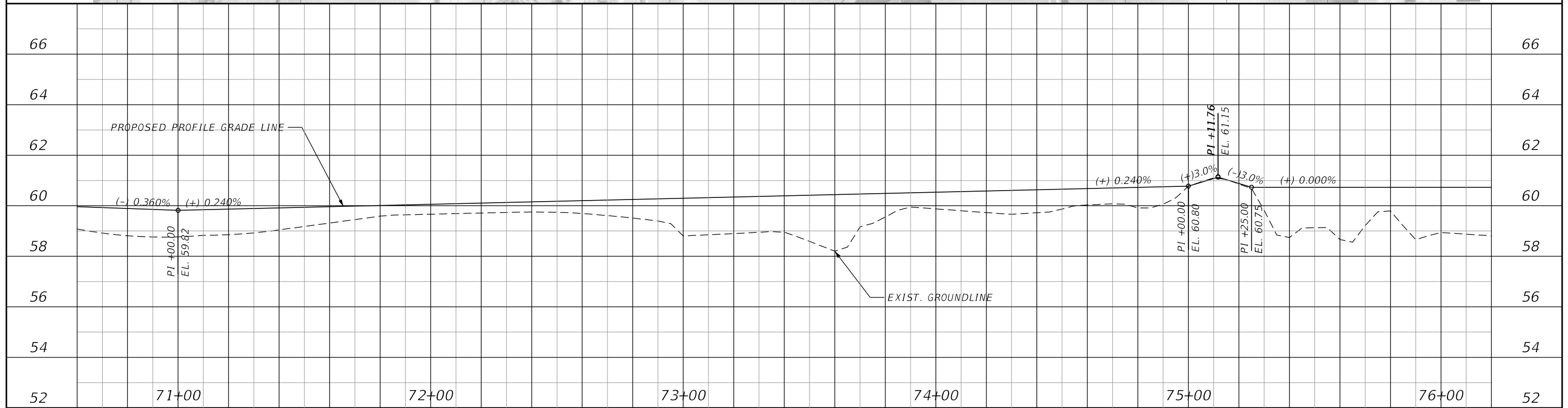
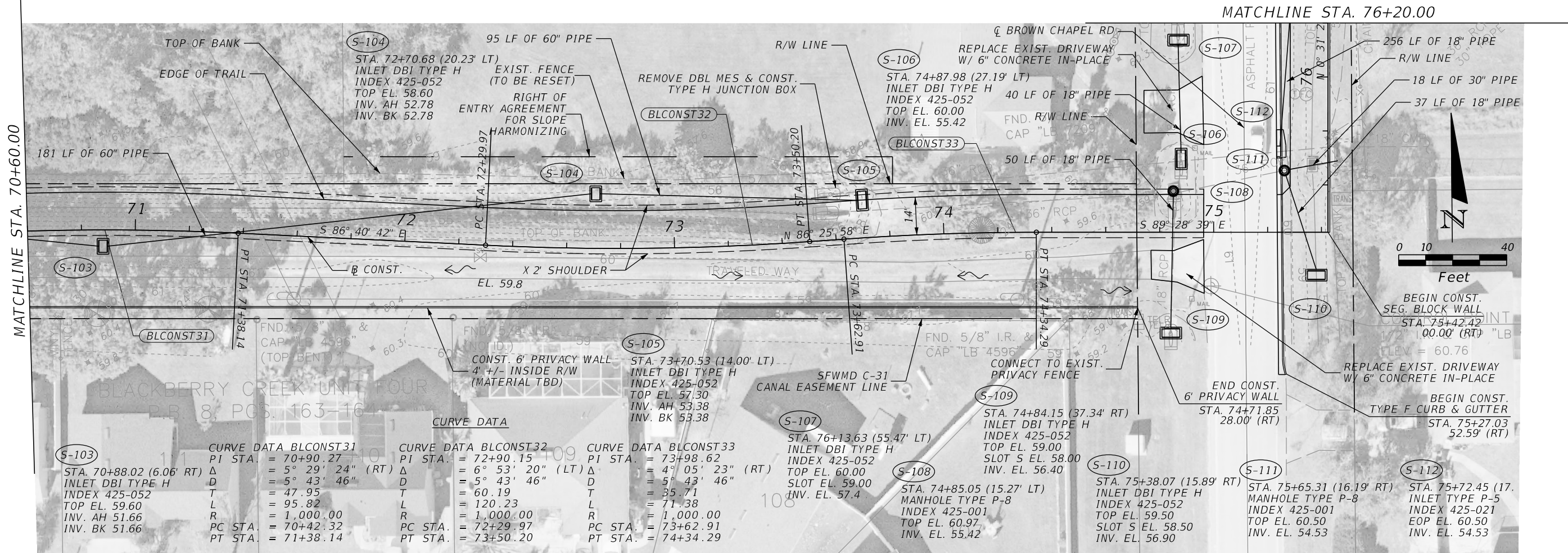
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OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

OSCEOLA COUNTY LANDS PER WARRANTY
 DEED (O.R.) PG. 896
 INDEX 425-052
 TOP EL. 58.00
 INV. AH 50.42
 INV. BK 50.42
 2841, PG. 431
 CONTROL POINT
 1/2" I.R. & CAP 18"
 968'
 ELEV. = 60.68
 R/W LINE
 N 87° 49' 54" E
 70
 202 LF OF 60" PIPE
 X EL. 59.3
 151 LF OF 60" PIPE
 X EL. 58.8
 145 LF OF 72" PIPE
 PC STA. 65+77.42
 PT STA. 66+86.72
 PC STA. 68+33.68
 PT STA. 69+21.69
 MATCHLINE STA. 70+60.00

PLAN & PROFILE

SHEET NO.
 22

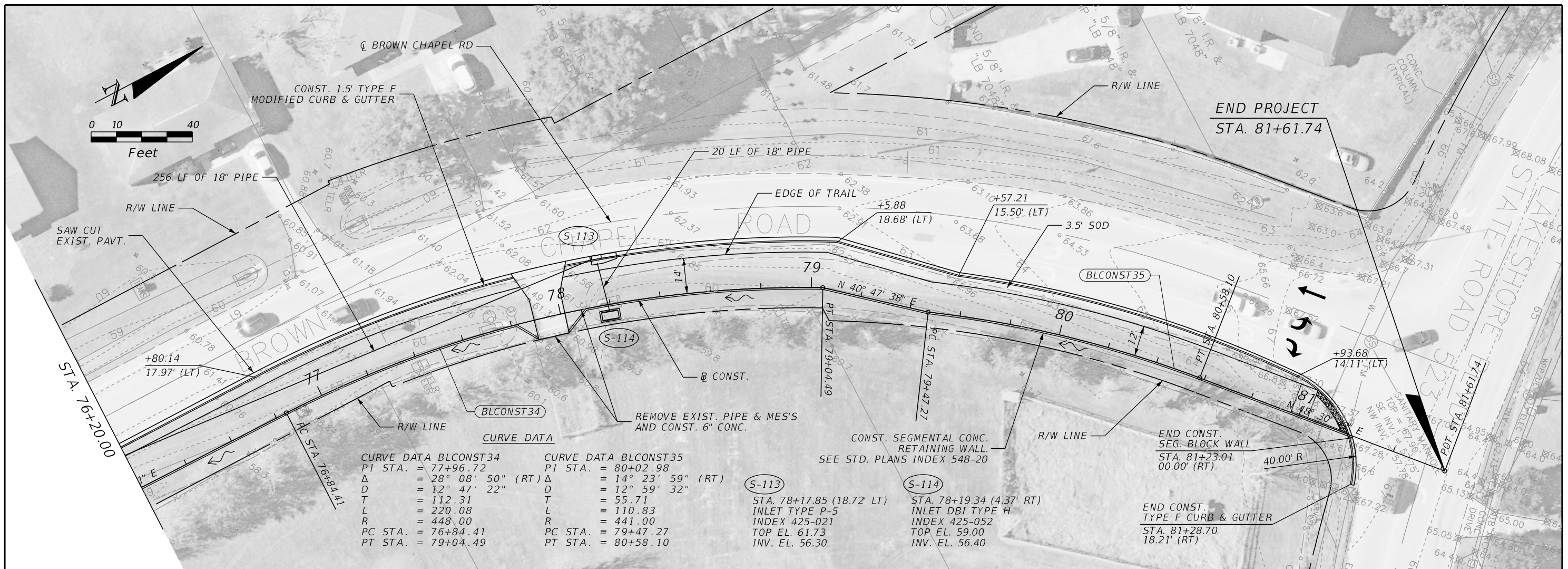


REVISIONS			
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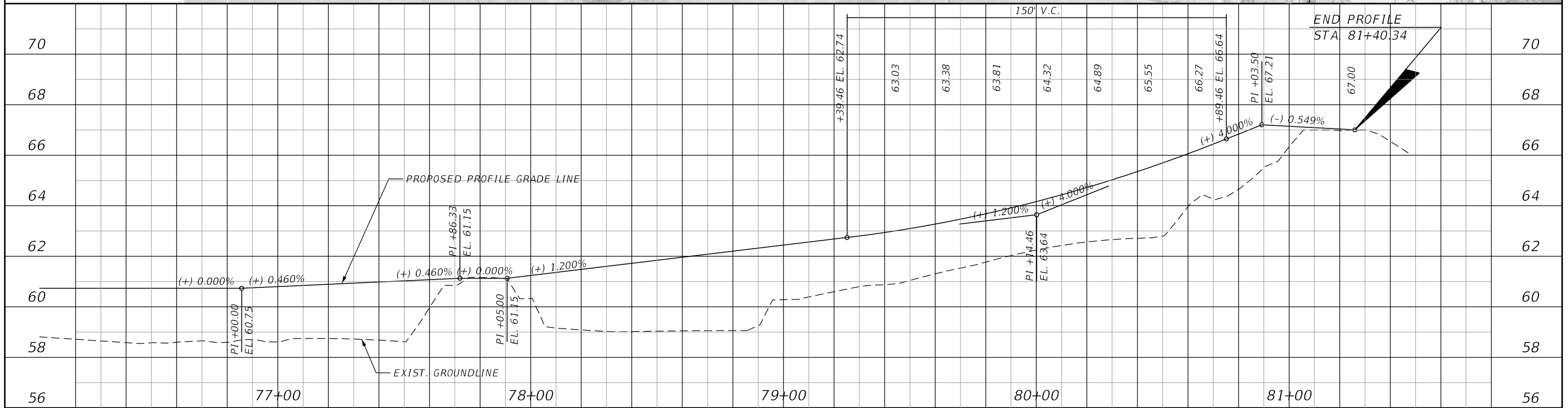
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OSCEOLA COUNTY
KISSIMMEE - ST. CLOUD
CONNECTOR TRAIL

PLAN & PROFILE
SHEET NO. 23



CURVE DATA		CURVE DATA	
BLCONST34		BLCONST35	
PI STA. = 77+96.72	PI STA. = 80+02.98	PI STA. = 77+96.72	PI STA. = 80+02.98
Δ = 28° 08' 50" (RT)	Δ = 14° 23' 59" (RT)	Δ = 28° 08' 50" (RT)	Δ = 14° 23' 59" (RT)
D = 12° 47' 22"	D = 12° 59' 32"	D = 12° 47' 22"	D = 12° 59' 32"
T = 112.31	T = 55.71	T = 112.31	T = 55.71
L = 220.08	L = 110.83	L = 220.08	L = 110.83
R = 448.00	R = 441.00	R = 448.00	R = 441.00
PC STA. = 76+84.41	PC STA. = 79+47.27	PC STA. = 76+84.41	PC STA. = 79+47.27
PT STA. = 79+04.49	PT STA. = 80+58.10	PT STA. = 79+04.49	PT STA. = 80+58.10



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

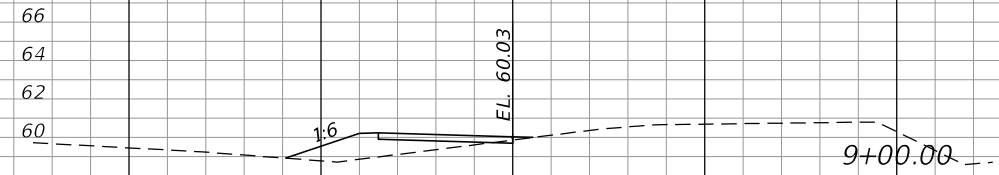
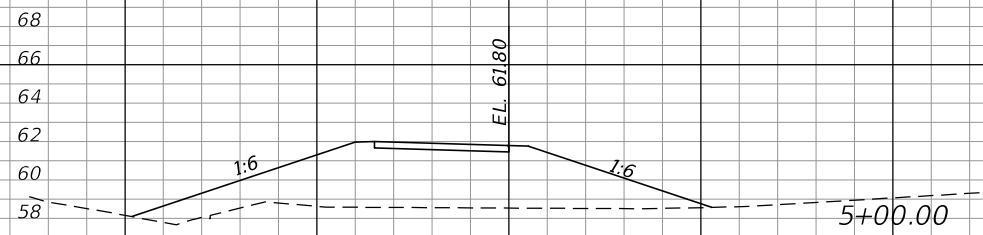
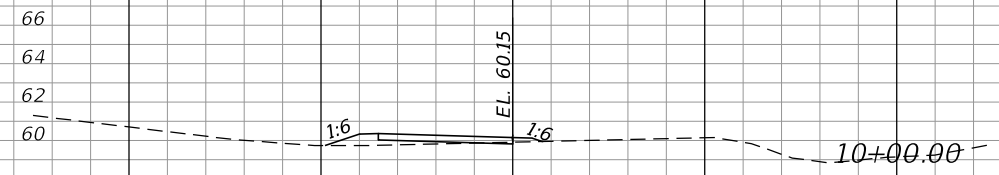
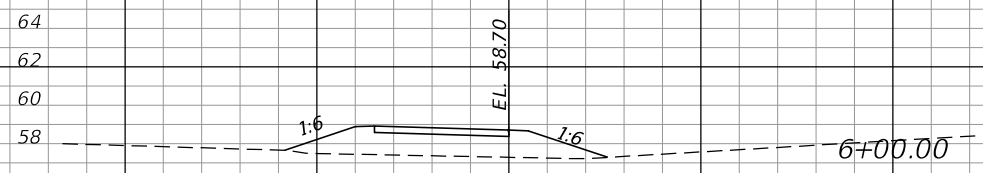
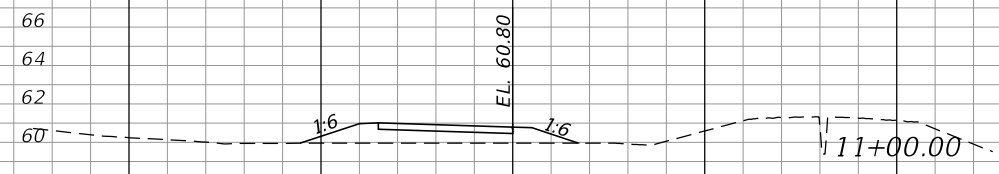
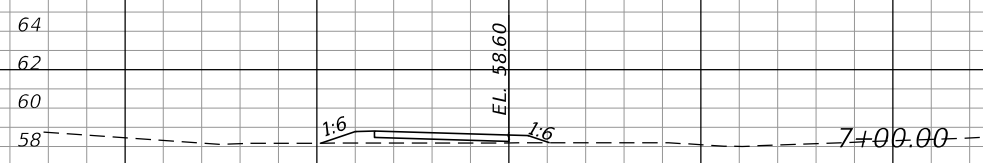
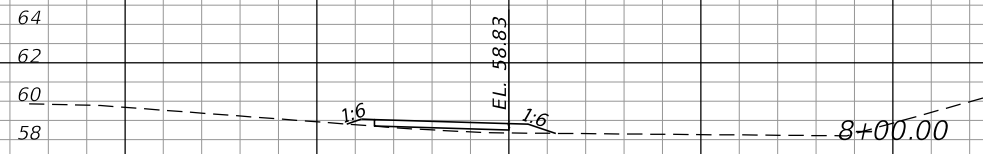
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OSCEOLA COUNTY
KISSIMMEE - ST. CLOUD
CONNECTOR TRAIL

PLAN & PROFILE
SHEET NO. 24

Regular Exc. Embankment
A V A V

Regular Exc. Embankment
A V A V



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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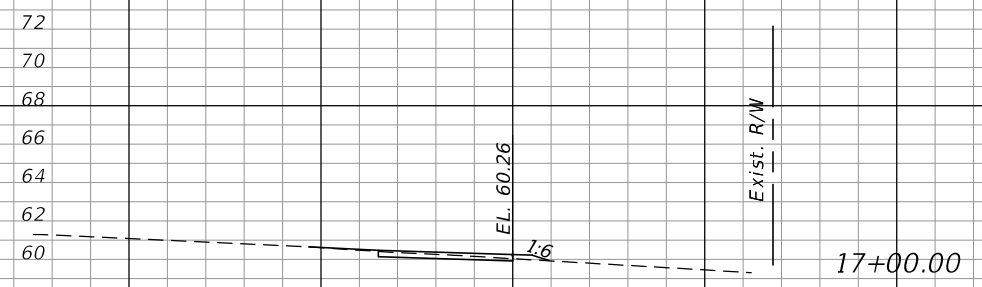
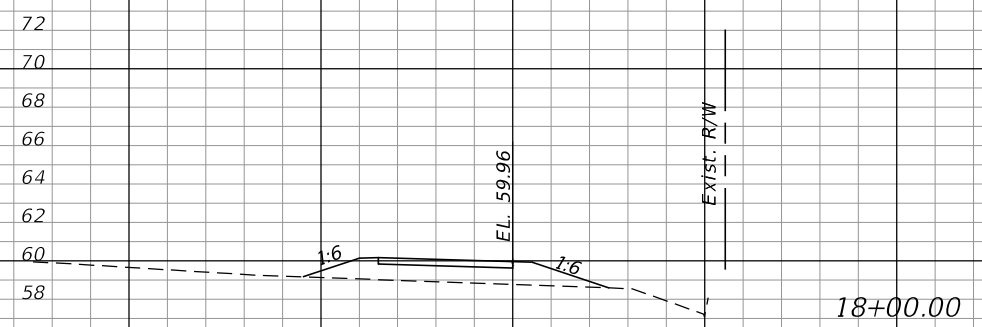
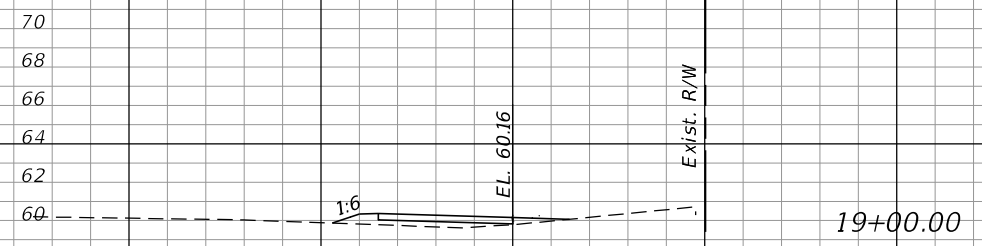
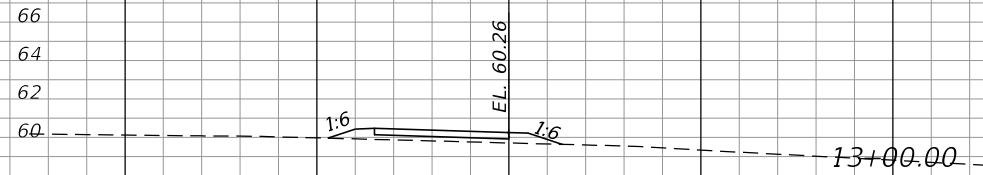
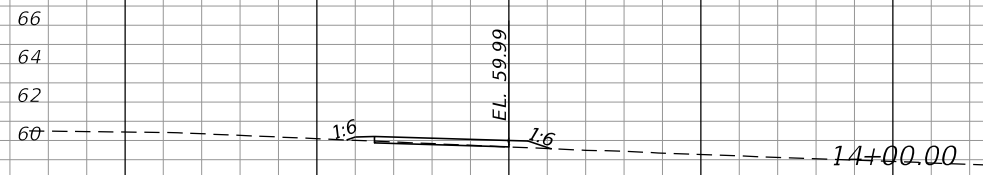
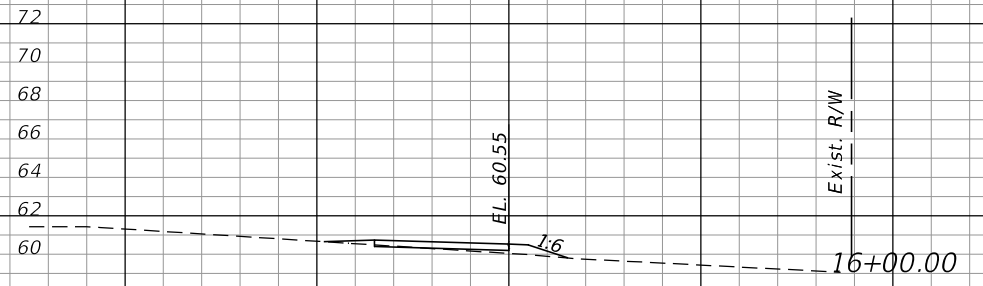
OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

CROSS SECTIONS

SHEET NO.
 25

Regular Exc. Embankment
A V A V

Regular Exc. Embankment
A V A V



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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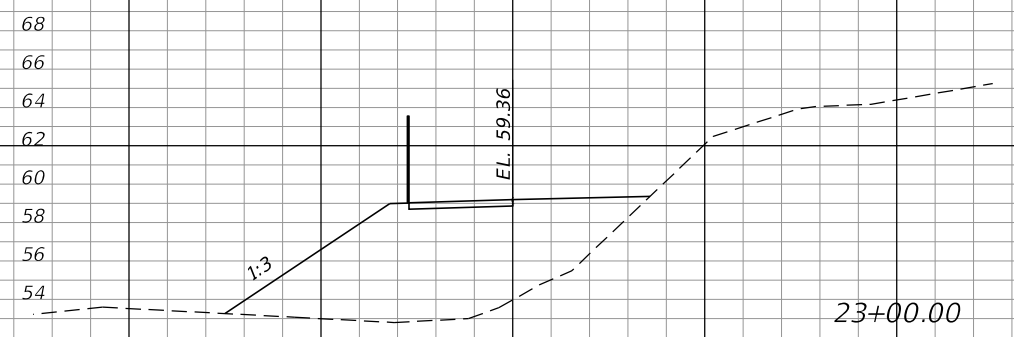
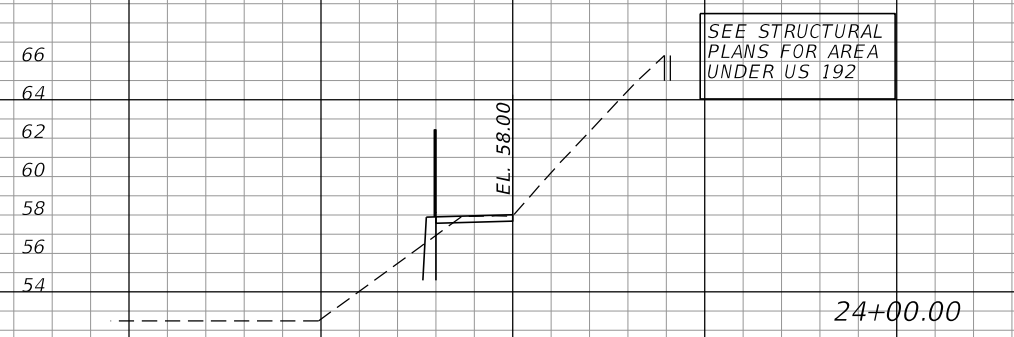
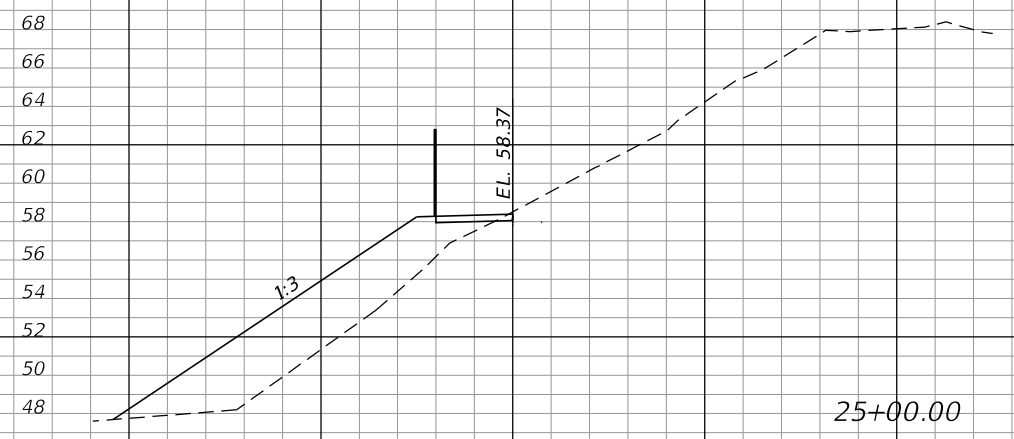
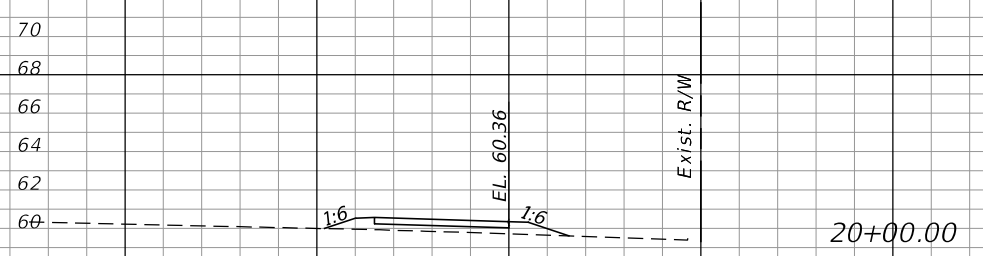
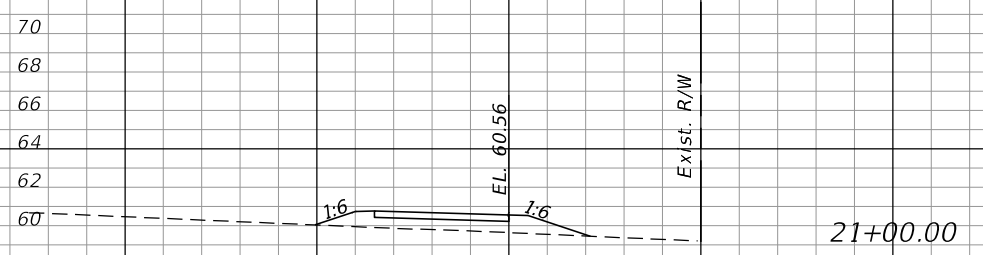
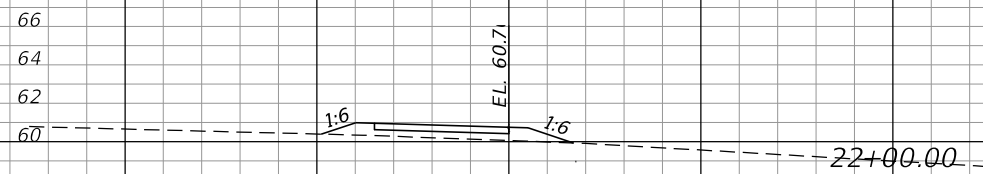
OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

CROSS SECTIONS

SHEET NO.
26

Regular Exc. Embankment
A V A V

Regular Exc. Embankment
A V A V



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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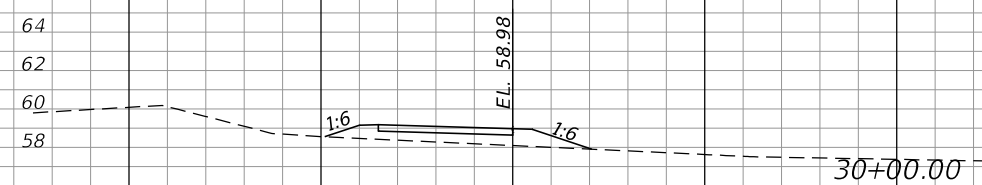
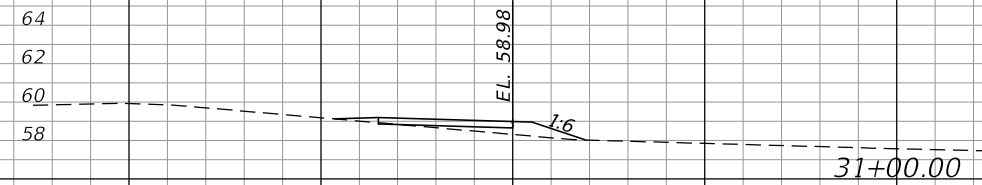
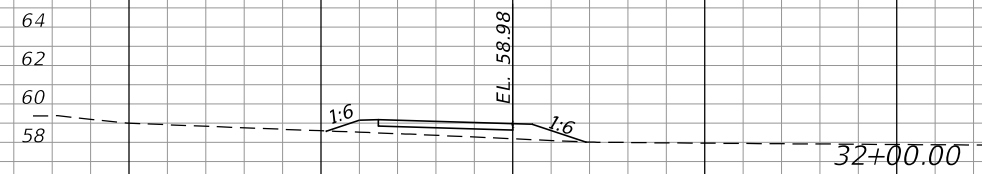
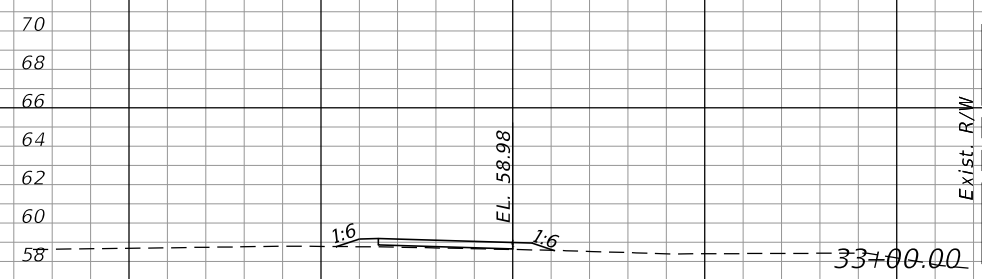
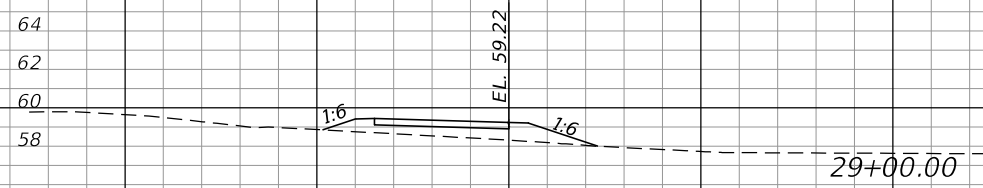
OSCEOLA COUNTY
KISSIMMEE - ST. CLOUD
CONNECTOR TRAIL

CROSS SECTIONS

SHEET NO.
27

Regular Exc. Embankment
A V A V

Regular Exc. Embankment
A V A V



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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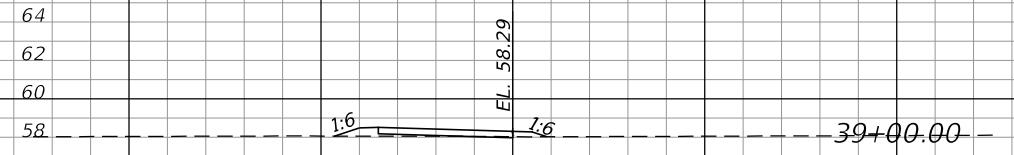
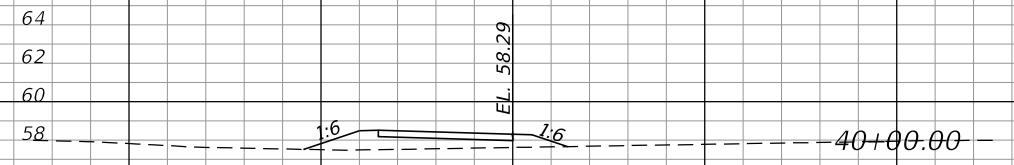
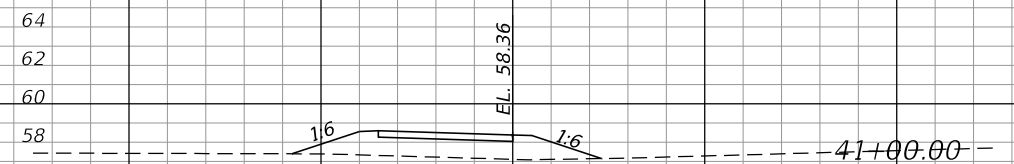
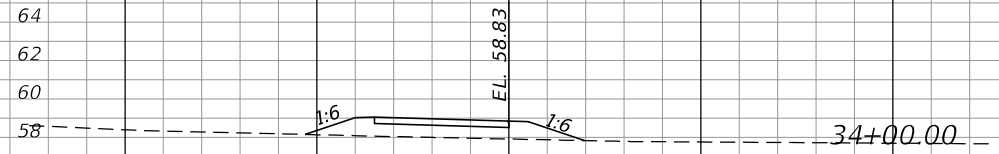
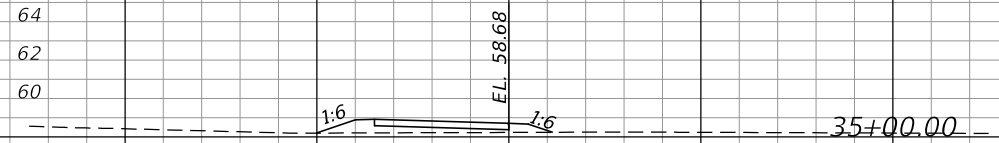
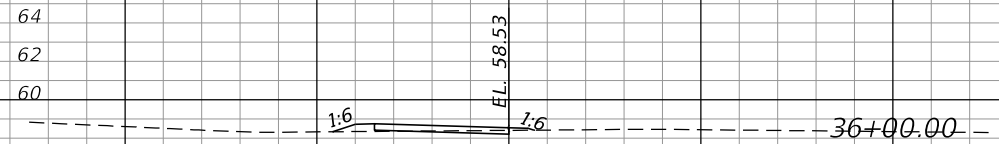
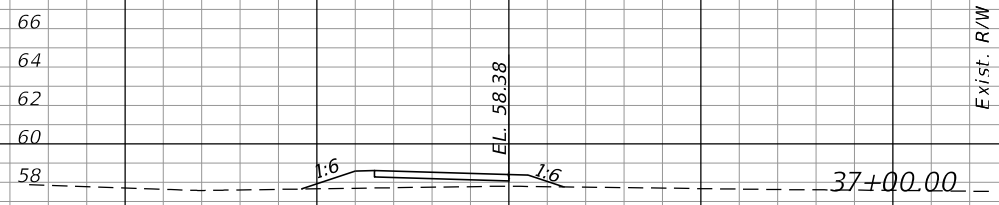
OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

CROSS SECTIONS

SHEET NO.
 28

Regular Exc. Embankment
A V A V

Regular Exc. Embankment
A V A V



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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ENGINEERING / PLANNING
1700 N. ORANGE AVE., SUITE 400 ORLANDO, FL 32804
407-898-7858 CERT. OF AUTHORIZATION NO. 7350
STEVEN M. KREIDT, P.E. LICENSE NO. 39540

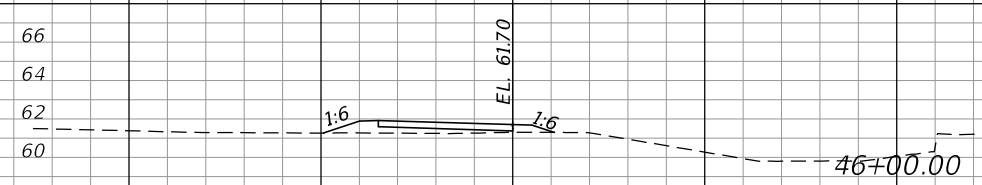
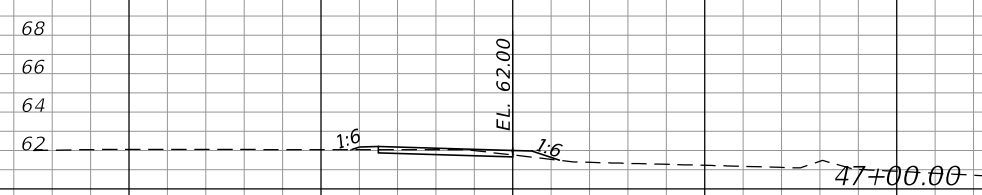
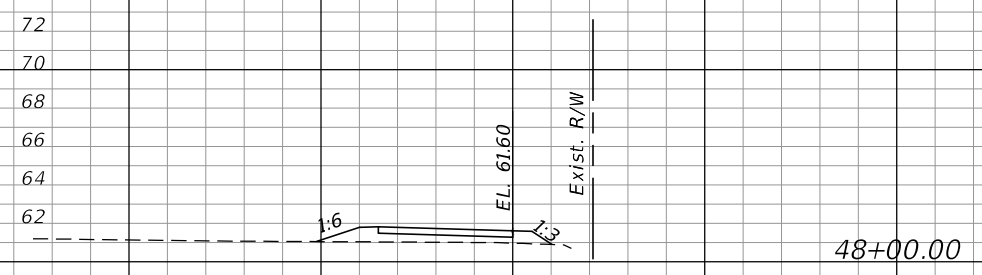
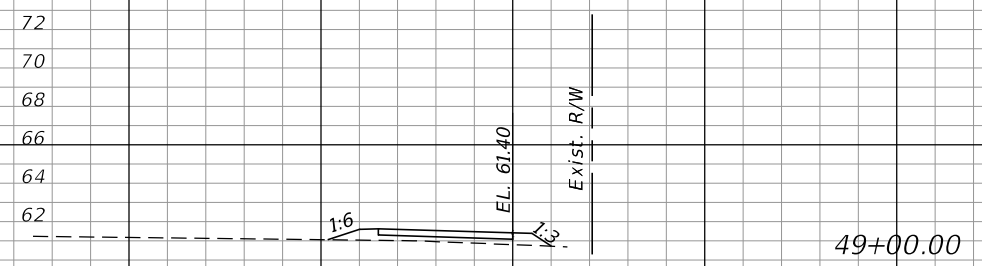
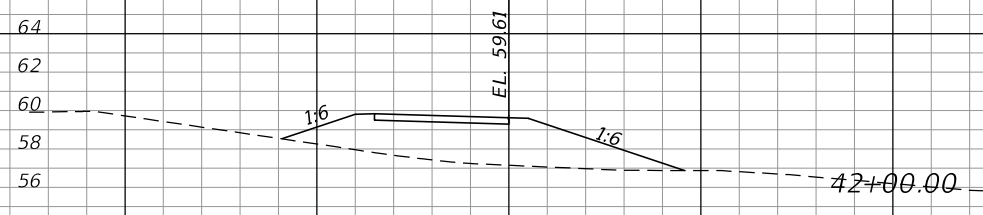
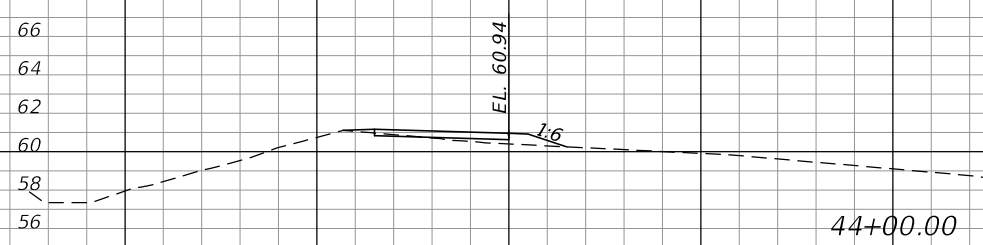
OSCEOLA COUNTY
KISSIMMEE - ST. CLOUD
CONNECTOR TRAIL

CROSS SECTIONS

SHEET NO.
29

Regular Exc. Embankment
A V A V

Regular Exc. Embankment
A V A V



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
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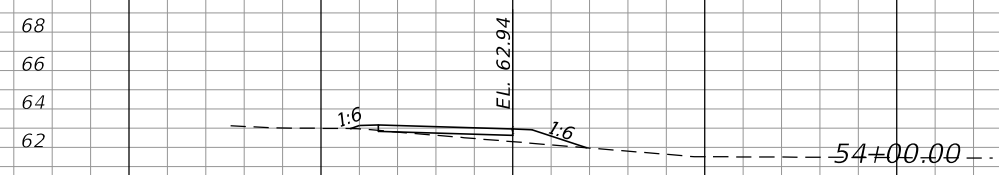
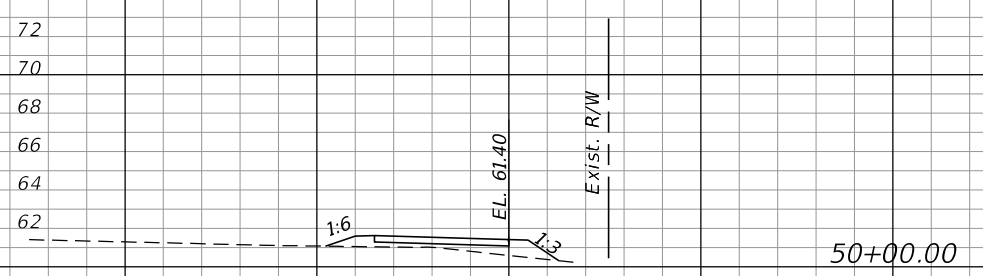
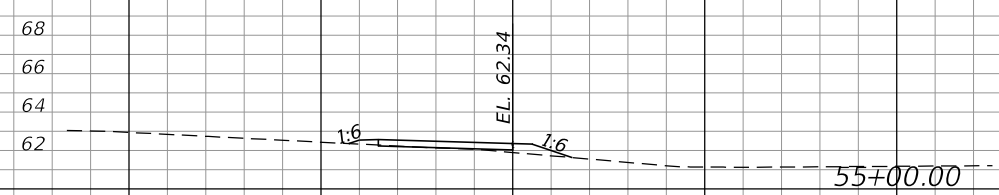
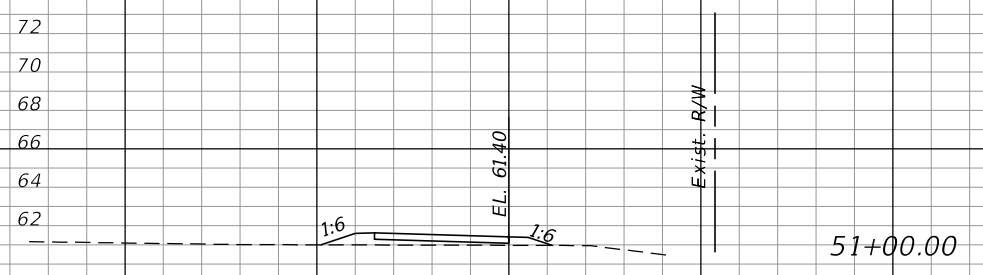
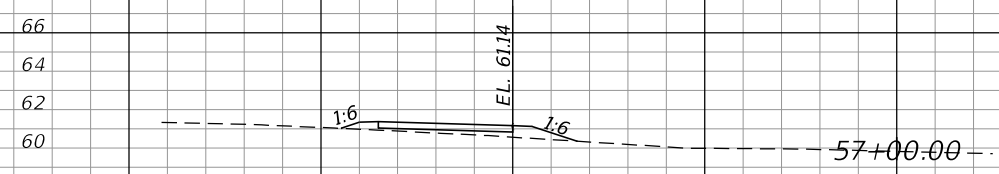
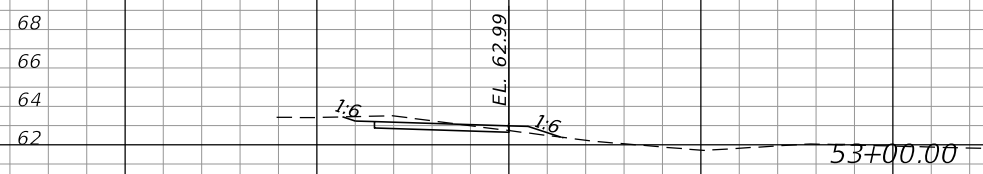
OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

CROSS SECTIONS

SHEET NO.
 30

Regular Exc. Embankment
A V A V

Regular Exc. Embankment
A V A V



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
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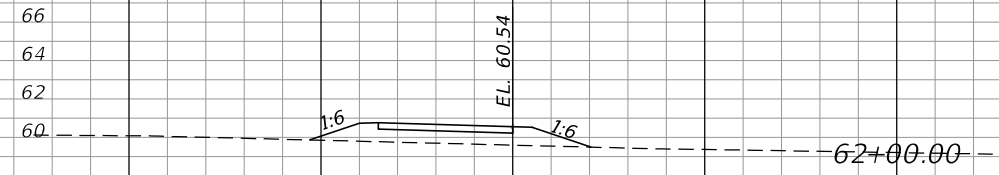
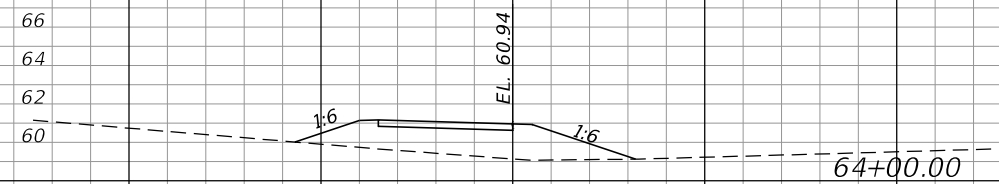
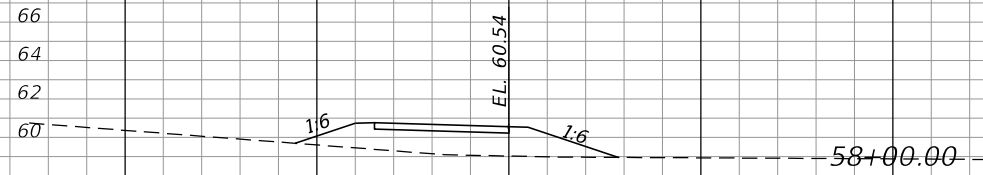
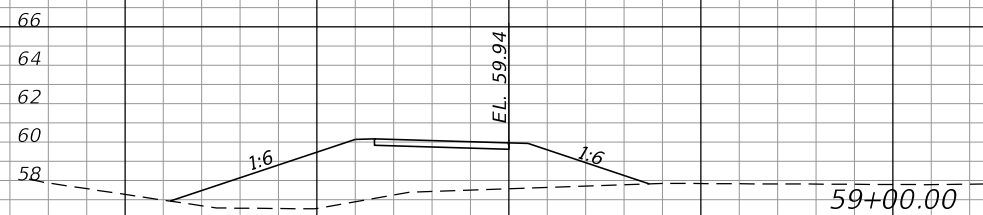
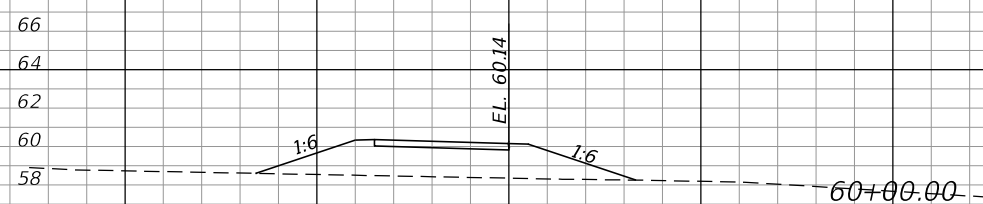
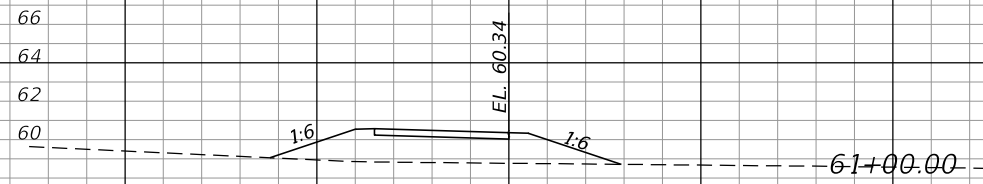
OSCEOLA COUNTY
KISSIMMEE - ST. CLOUD
CONNECTOR TRAIL

CROSS SECTIONS

SHEET NO.
31

Regular Exc. Embankment
A V A V

Regular Exc. Embankment
A V A V



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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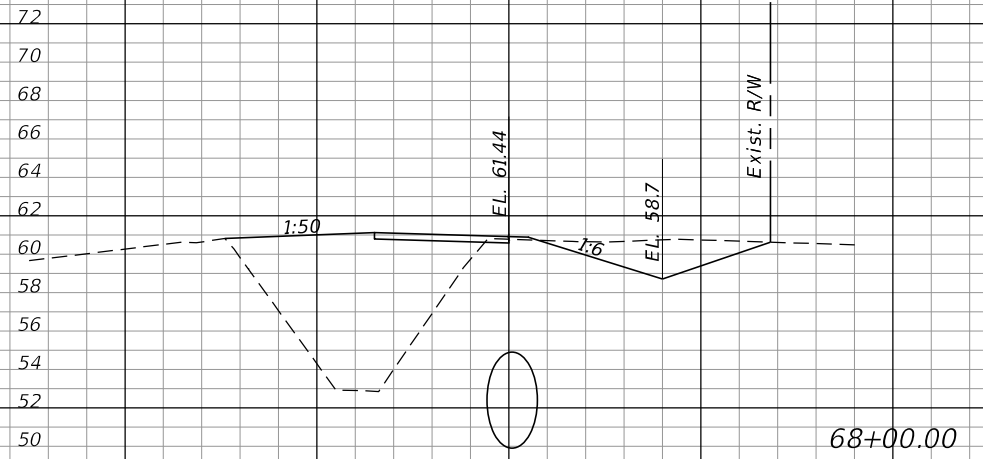
OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

CROSS SECTIONS

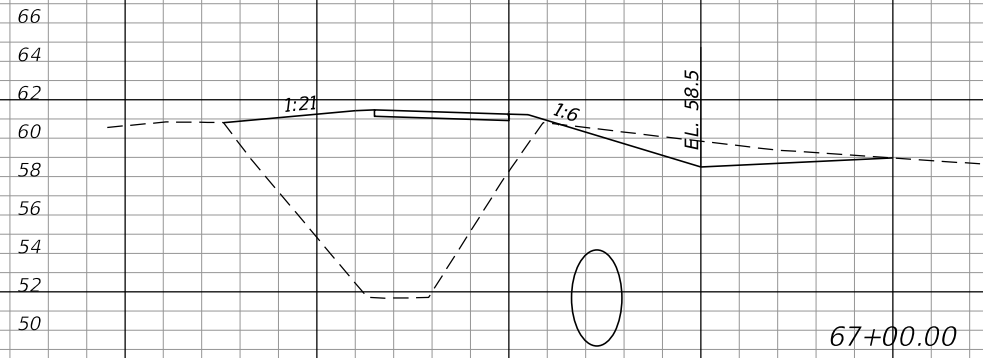
SHEET NO.
 32

Regular Exc. Embankment
A V A V

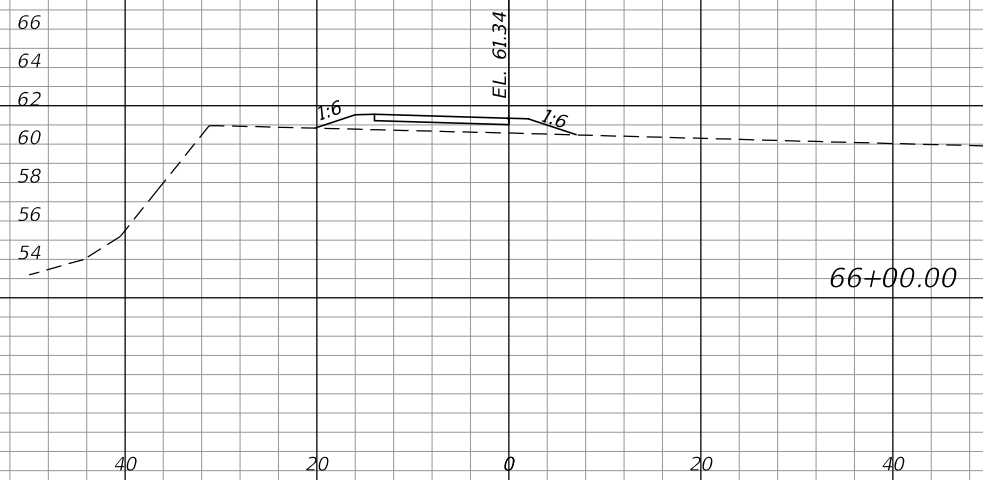
Regular Exc. Embankment
A V A V



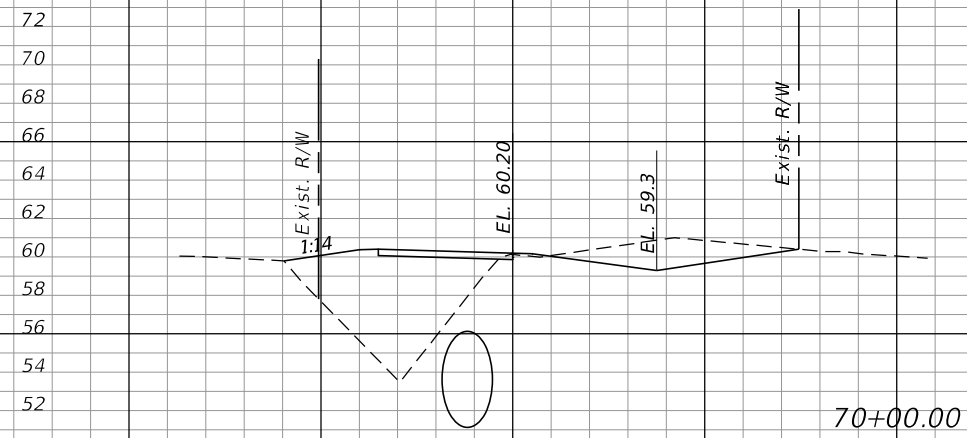
68+00.00



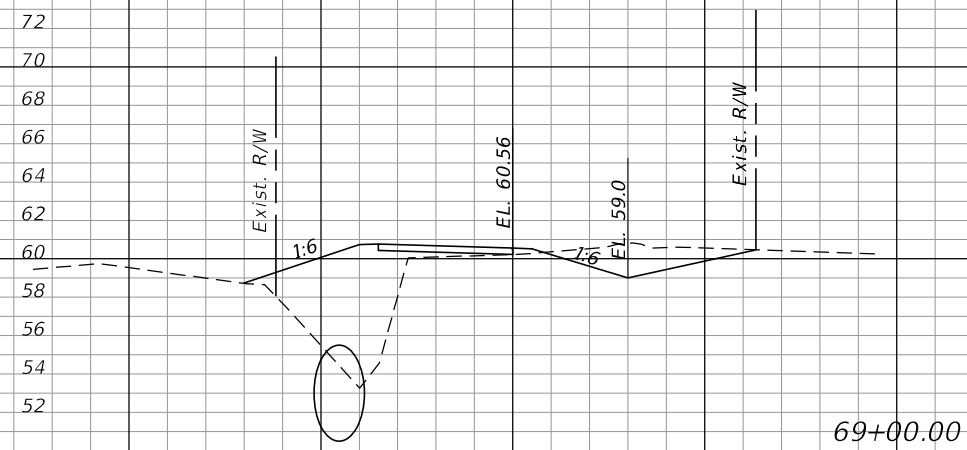
67+00.00



66+00.00



70+00.00



69+00.00

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
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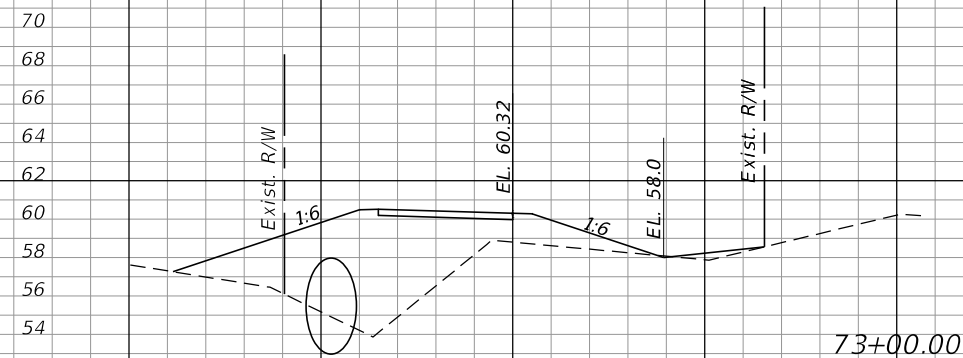
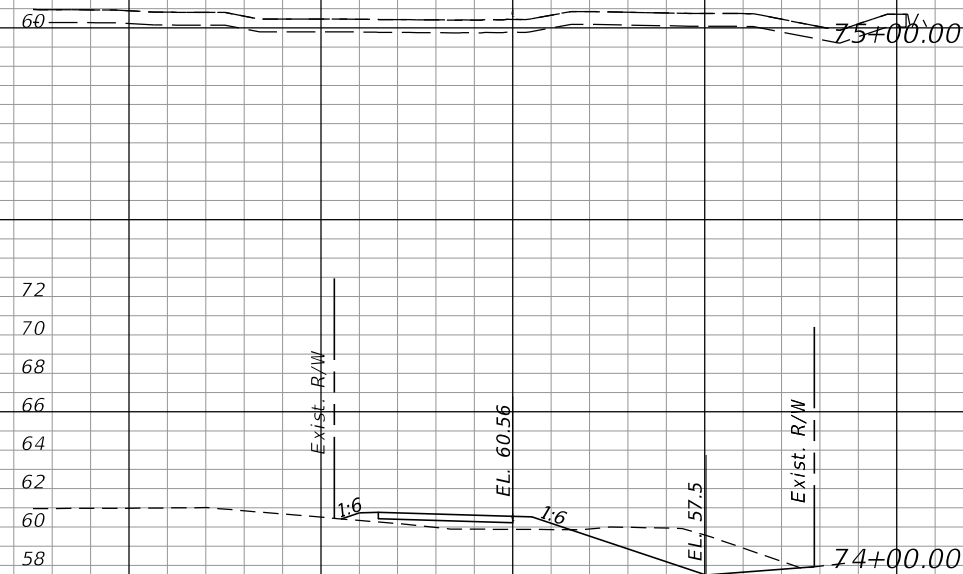
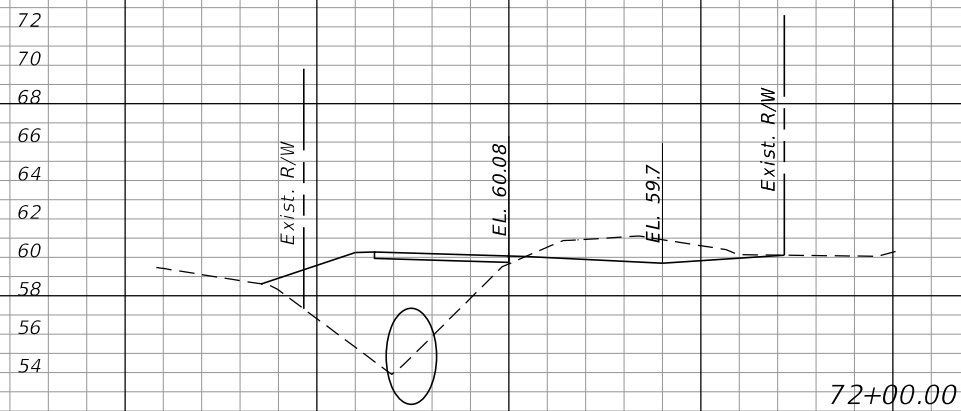
OSCEOLA COUNTY
KISSIMMEE - ST. CLOUD
CONNECTOR TRAIL

CROSS SECTIONS

SHEET NO.
33

Regular Exc.		Embankment	
A	V	A	V

Regular Exc.		Embankment	
A	V	A	V



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
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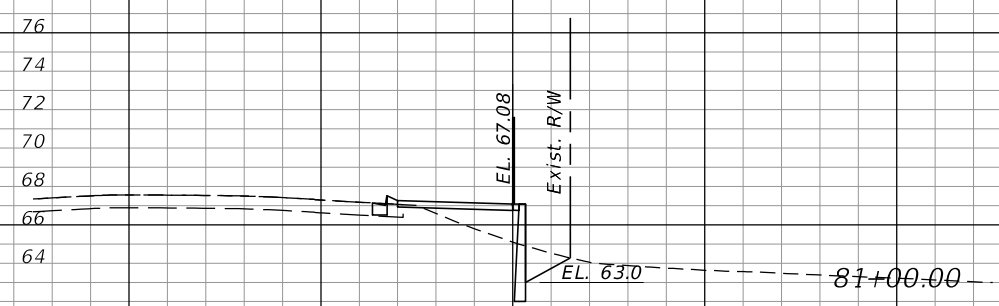
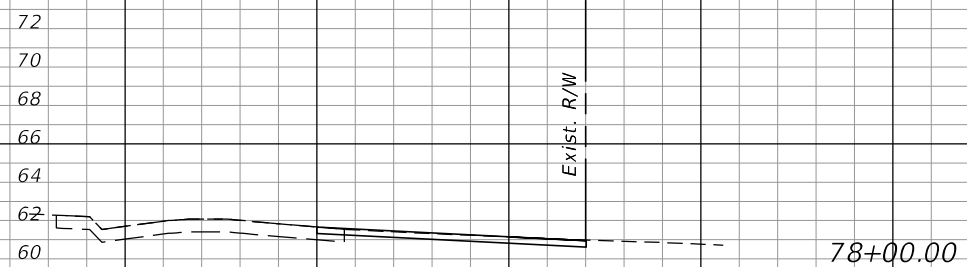
OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

CROSS SECTIONS

SHEET NO.
 34

Regular Exc. Embankment
A V A V

Regular Exc. Embankment
A V A V



1" = 20' Horizontal
1" = 10' Vertical

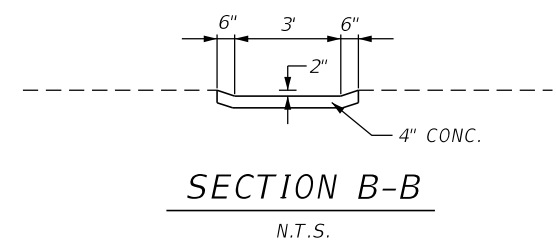
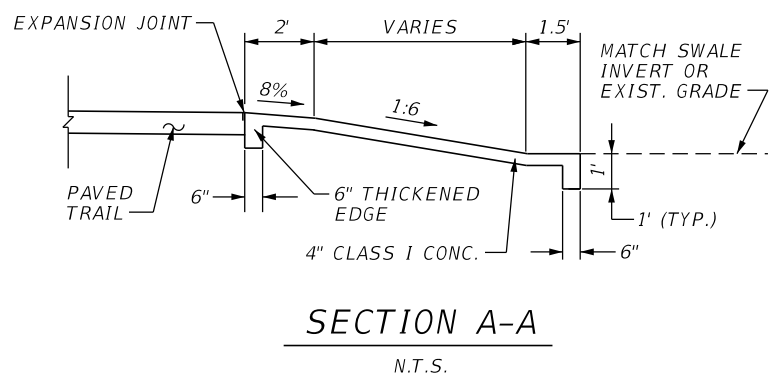
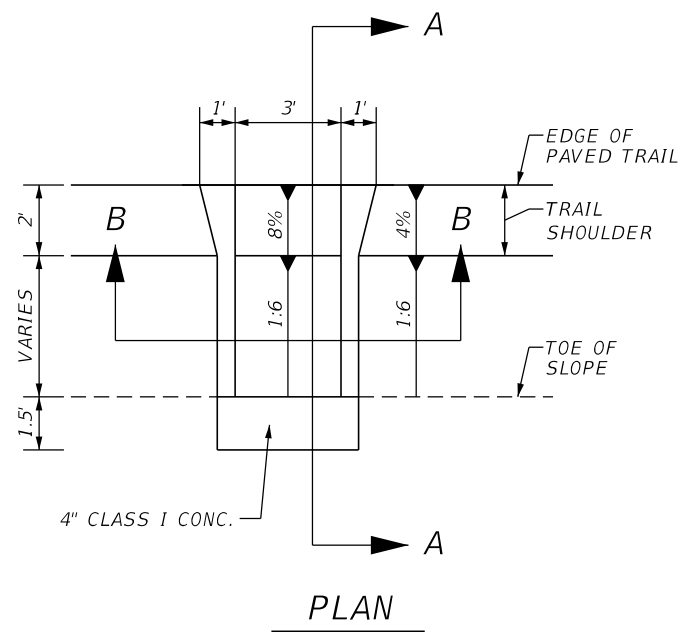
REVISIONS			
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OSCEOLA COUNTY
KISSIMMEE - ST. CLOUD
CONNECTOR TRAIL

CROSS SECTIONS

SHEET NO.
35



CONCRETE FLUME DETAIL
N.T.S.

NOTE: CONST. SAW CUT 1 1/2" DEEP (MIN)
CONTRACTION JOINTS ON 4' CENTERS

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 HERMAN D. TIRADO, P.E. LICENSE NO. 36910

OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

DRAINAGE DETAILS
 SHEET NO.
 36

1.0 SITE DESCRIPTION

1.1 CONSTRUCTION ACTIVITIES

Activities include:
 Construction of paved recreational trail.
 Construction of drainage structures.
 Earthwork
 Sodding

1.2 PROJECT LIMITS

The project located along the St. Cloud side of the C-31 Canal, between Neptune Road and Lakeshore Boulevard. The project begins near Partin Triangle Park and extends north along the south side of the C-31 Canal. The trail will cross under US 192 and proceed to the north end of the Blackberry Creek Community. The trail will then turn east toward Brown Chapel Road. At Brown Chapel Road, the trail will turn north toward East Lake Tohopekaliga, ending at Lakeshore Boulevard.

1.3 PROJECT DESCRIPTION

This project includes the construction of a new 14' wide paved recreational trail. The work will include earthwork, sodding, and drainage improvements.

1.4 MAJOR SOIL DISTURBING ACTIVITIES

Clearing and grubbing of proposed construction limits.
 Earthwork to install new pavement.
 Earthwork to install drainage.

1.5 TOTAL PROJECT AREA

4.54 Acres

1.6 TOTAL AREA TO BE DISTURBED

4.54 Acres

1.7 RUNOFF DATA

PRE CONSTRUCTION C-VALUE = 0.35
 POST CONSTRUCTION C-VALUE = 0.42
 DURING CONSTRUCTION C-VALUE = 0.30-0.42

1.8 SITE MAP

For site map: See Key Sheet located in the construction plans.

1.9 RECEIVING WATERS / WETLAND AREAS

Receiving waters are East Lake Tohopekaliga.

Project outfalls via existing stormwater ponds and cross drainage flow ways:
 C-31 Canal: 28°15' 39.6" N, 81°19' 01.7" W

2.1 NARRATIVE

During the construction operations. The control measures identified in section 2.2 will be used to prevent erosion and sedimentation.

Clearing and grubbing operations shall be controlled so as to minimize unprotected erodible areas exposed to weather. Areas outside the limits of construction shall not be disturbed.

Concrete truck washout areas shall be provided as identified in the contract documents.

New and existing structures will be protected from siltation during construction. The Contractor shall develop a detailed Erosion and Sediment Control Plan and submit for review. The plan will include:

- The construction project schedule with erosion and sediment control installation and maintenance tied to specific dates or construction activities.
- Modifications to the SWPPP and Erosion Control Plans due to the Contractor's proposed construction means, methods and phasing. The Contractor's Erosion Control Plan will be utilized as the first formal update to the SWPPP.
- Contractor's representative should be a SWPPP certified Inspector and certificate should also be submitted. This person could also be responsible for coordination of maintenance, not the actual work itself. Person should be available for contact on a 24-hour basis.

The Contractor is advised that the contract drawings only indicate erosion, sediment, and turbidity controls at locations determined in the design process. However, the Contractor is required to update the SWPPP to reflect any additional controls necessary to prevent the possibility of silting any adjacent lowland parcel, receiving water, or otherwise violating State and Federal permit requirements. The Contractor is also required to modify the plan or materials to adapt to seasonal variations and supply contract time schedules for the implementation of each submittal.

The Contractor shall be responsible for:

- a) Submittal of notice of intent (NOI) and associated application fee to the FDEP at least 2 days before performing soil disturbing activities in accordance with the generic permit for stormwater discharge from large and small construction activities (CGP).
- b) Erosion and sediment control measures are to be placed prior to, or as the first step in construction. Sediment control devices will be employed as a perimeter defense against any transportation of silt beyond the construction limits.
- c) Stabilization measures shall be initiated for erosion and sediment control on disturbed areas as soon as practicable, but in no case after more than 7 days, in portions of the site where construction activities have temporarily or permanently ceased. All surfaces that will be exposed for fourteen (14) days or more shall be vegetated with temporary or permanent cover.
- d) Permanent soil erosion control measures for all slopes, channels, ditches or any disturbed land areas shall be completed immediately after final grading. When it is not possible to permanently protect a disturbed area immediately after grading operation, temporary erosion control measures shall be installed. All temporary protection shall be maintained until permanent measures are in place and established.
- e) Submittal of notice of termination (NOT) to the FDEP within 14 days of final stabilization of the site in accordance with the CGP.

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DATE	DESCRIPTION	DATE	DESCRIPTION		STORMWATER POLLUTION PREVENTION PLAN		
				KISSIMMEE - ST. CLOUD CONNECTOR TRAIL			

2.2 EROSION AND SEDIMENT CONTROLS

2.2.1 STABILIZATION PRACTICES

- Temporary sodding
- Temporary grassing
- Temporary mulching
- Artificial covering
- Permanent planting, sodding or seeding
- Buffer zones
- Preservation of natural resources

2.2.2 STRUCTURAL PRACTICES

- Sand bagging
- Silt fences
- Synthetic Bales
- Berms
- Diversion, interceptor or perimeter ditches
- Pipe slope drains
- Flumes
- Rock bedding at construction exit
- Timber bedding at construction exit
- Ditch liner
- Sediment traps
- Sediment basins
- Storm inlet sediment traps
- Stone outlet structures
- Curb and gutters
- Storm sewers
- Velocity control devices
- Turbidity barriers
- Rip rap

2.3 DESCRIPTION OF STORMWATER MANAGEMENT

The trail will have runoff directed into the existing stormwater system. The existing ditch on the north side of Blackberry Cir. will be replaced with pipe culverts and ditch bottom inlets. Curb inlets will be placed along Brown Chapel Road.

2.4 OTHER CONTROLS

2.4.1 WASTE DISPOSAL

Solid waste must be disposed of at an approved landfill. All fertilizer, hydrocarbon or other chemical containers shall be disposed of by the Contractor according to EPA's standard practice as detailed by the manufacturer. This section is to be developed as part of the Contractor's Erosion Control Plan.

2.4.2 OFFSITE VEHICLE TRACKING

- Haul roads dampened for dust control
- Loaded haul trucks to be covered with tarpaulin
- Excess dirt removed from road daily
- Stabilized construction entrance
- Concrete truck washdown areas

This section is to be developed as part of the Contractor's erosion control plan.

2.4.3 SANITARY WASTE

Self-contained temporary restroom facilities are to be provided and maintained by a licensed Contractor in accordance with local, state and federal regulations. This section to be developed as part of the Contractor's Erosion Control Plans.

2.4.4 PESTICIDES AND FERTILIZERS

Pesticides and fertilizers shall be controlled according to Section 982 of the Standard Specifications for Road and Bridge Construction and in accordance with the manufacturer's recommendations. Fertilizer is to be placed on all permanent sodding. No fertilizer is to be spread when wind speed exceeds 10 mph. This section to be developed as part of the Contractor's Erosion Control Plans.

2.4.5 NON-STORMWATER DISCHARGE AND SPILL REPORTING

Hazardous waste: when a Contractor encounters a spill, construction will stop and work will not resume until directed by the Engineer. All spills must be reported to the Owner and potentially to the FDEP. Disposition of the hazardous waste will be made in accordance with requirements and regulations of any local, state or federal agency having jurisdiction. If contaminated groundwater is encountered, the Engineer is to be contacted immediately.

2.5 APPROVED STATE & LOCAL PLANS OR PERMITS

SFWMD Permit:

FDEP Generic permit for storm water discharge from large and small construction activities: Contractor to submit NOI

3.0 MAINTENANCE

The Contractor shall be responsible for maintaining all pollution prevention controls. Daily inspections shall be made by the Contractor to determine the effectiveness of erosion, sedimentation, turbidity, and pollution control measures. Remedial action shall be performed immediately.

The Contractor shall be responsible for the installation and maintenance of rain gauges. Daily rainfall data will be recorded and submitted to the Engineer along with the weekly inspecting reports.

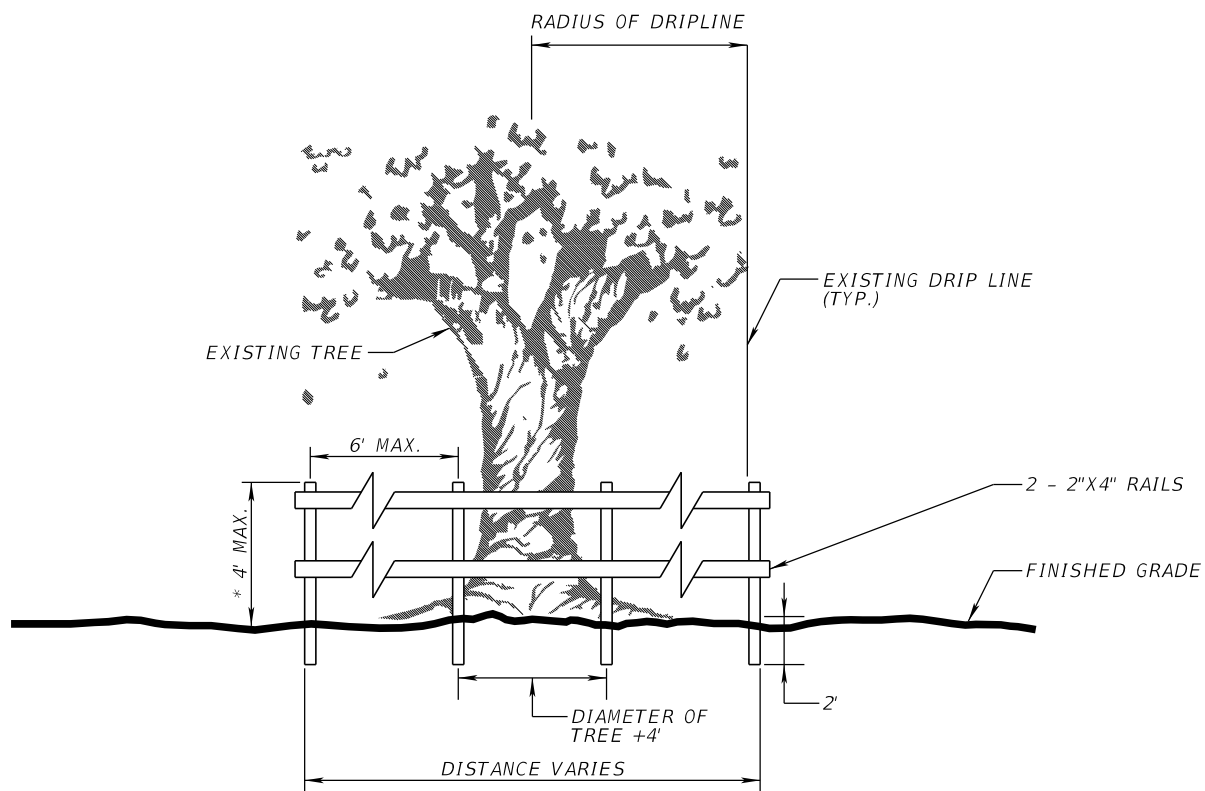
4.1 INSPECTION

The Contractor is required to inspect all erosion control features at least once every seven calendar days and within 24 hours of the end of a rain event of 0.5 inches or greater. In addition, the Contractor shall maintain all erosion control features as required herein and as specified in State and/or Federal environmental regulatory permits. This includes, but is not limited to, the daily review of the location of silt fences in areas where construction activities have changed the natural contour and drainage runoff to ensure the silt fences are properly located for effectiveness. The Contractor will use FDOT Form 650-040-03 or approved equivalent form to report all inspection findings and corrective actions taken as a result of the inspection. The Contractor will sign each inspection report and submit it weekly to the Engineer.

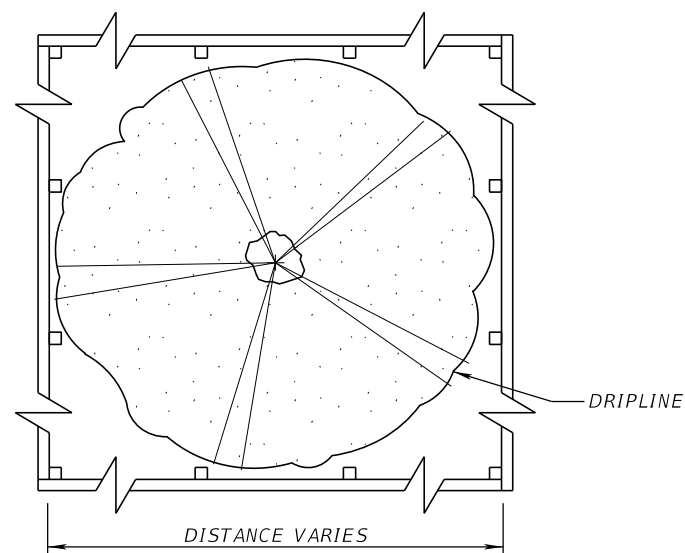
4.2 PROJECT COMPLETION

Temporary perimeter controls (silt fences, turbidity barriers, etc.) shall be removed after final construction site stabilization, or after final stabilization of those portions of the site upstream of the perimeter controls. A record of the dates when major grading activities occur, when construction activities temporarily or permanently cease and when stabilization measures are initiated shall be included in the Contractor's Erosion Control Plan. Upon completion of construction, the Contractor shall submit a copy of the Contractor's Erosion Control Plan with all inspection reports to the Engineer who will forward to the Owner in accordance with records retention requirements of the NPDES Permit.

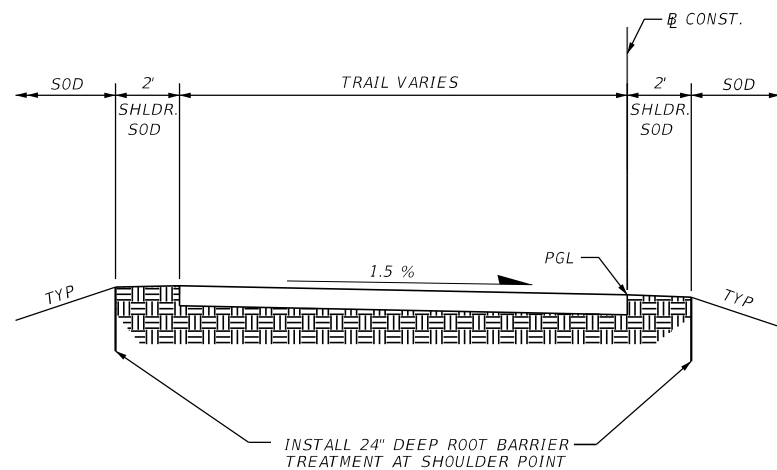
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DATE	DESCRIPTION	DATE	DESCRIPTION		KISSIMMEE - ST. CLOUD CONNECTOR TRAIL			38



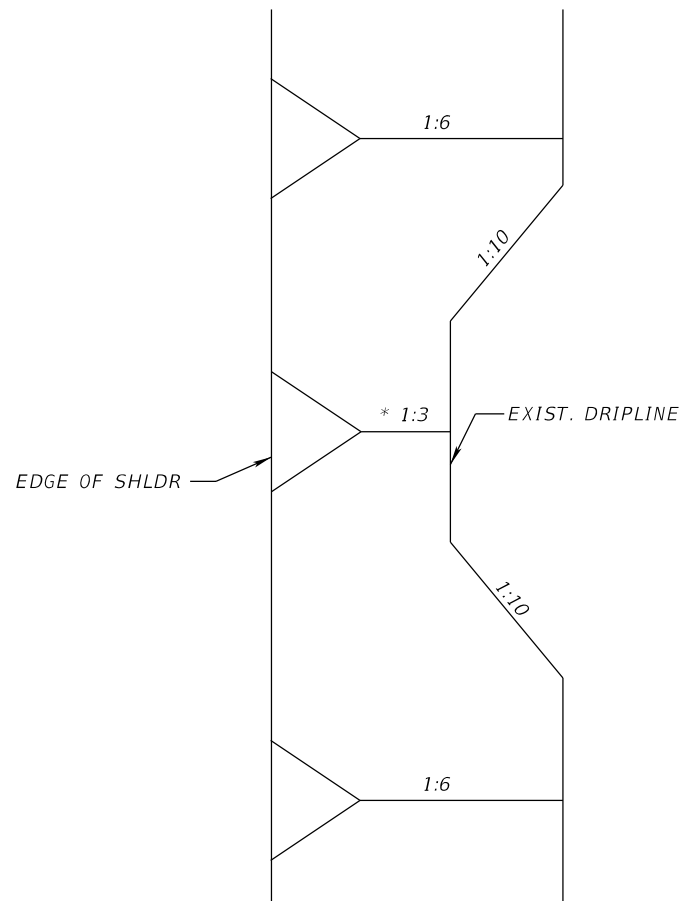
TYPICAL TREE PROTECTION BARRICADE DETAIL
NOT TO SCALE



TYPICAL TREE PROTECTION BARRICADE PLAN
NOT TO SCALE



ROOT BARRIER TREATMENT DETAIL
(N.T.S.)



SIDE SLOPE DETAIL ALONG TREES
NOT TO SCALE

* CONTRACTOR CAN CONSTRUCT FLATTER SLOPES WITH APPROVAL OF ENGINNER

SUMMARY OF
ROOT BARRIER TREATMENT

LOCATION	LENGTH (LF)	SIDE
TOTAL:		

NOTES:

- PRIOR TO ANY LAND CLEARING OR CONSTRUCTION ACTIVITY, TREE PROTECTION BARRICADES SHALL BE ERECTED AROUND ALL TREES TO BE PROTECTED IN THE PROJECT AREA.
- TREE PROTECTION BARRICADES MUST MEET OR EXCEED THE STANDARDS OF THE OSCEOLA COUNTY LAND DEVELOPMENT CODE.
- THE PROTECTIVE BARRICADE SHALL BE CONSTRUCTED OF 2"x4" WOOD POSTS STANDING A MINIMUM OF 4' ABOVE GROUND, PLACED A MAXIMUM OF 6 FEET APART, WITH 2-2"x4" WOOD RAILS CONNECTING THE POSTS.
- PROTECTIVE ZONES, WHICH SHOULD EXTEND FROM THE TREE TRUNK IN ALL DIRECTIONS TO THE EDGE OF THE DRIPLINE, SHALL BE MAINTAINED UNTIL SUCH TIME AS LANDSCAPE OPERATIONS BEGIN OR CONSTRUCTION IS COMPLETE, WHICHEVER OCCURS FIRST.
- TREE PROTECTION BARRICADES MAY BE MODIFIED TO ACCOMMODATE CONSTRUCTION OF TRAIL AND / OR AMENITIES AS DIRECTED AND APPROVED BY THE COUNTY OR ENGINEER.
- LANDSCAPE PREPARATION IN PROTECTED AREAS SHALL BE LIMITED TO ALLOW DISCING OF THE AREA.
- PERMITTED ACTIVITIES WITHIN PROTECTED AREA IS LIMITED TO TUNNELING OF UTILITY LINES UNDER ROOTS, AND PREPARATION OF GROUND SURFACE FOR PLACEMENT OR SOD OR OTHER GROUND COVER.
- PRUNING OF THE PROTECTED TREE(S) TO COMPENSATE FOR THE ADDITIONAL STRESS PLACED ON THE PRESERVED TREE(S) SHALL BE CONDUCTED IN THE FOLLOWING MANNER:
 - PRUNING SHALL BE PROPORTIONAL TO THE AMOUNT OF REDUCTION ALLOWED IN THE UNDISTURBED AREA, AND THE CROWN MUST BE PRUNED BY REMOVING BRANCHES AND THINNING RATHER THAN TOPPING. ROOTS GREATER THAN 1 INCH IN DIAMETER SHALL BE CUT CLEANLY BY A SHARP PRUNING TOOL.
 - EXPOSED ROOTS, IF CUT OR BROKEN SHALL BE PRUNED BACK TO HEALTHY TISSUE AND COVERED TO PREVENT DRYING.
 - BROKEN LIMBS AND BROKEN OR STRIPPED TREE BARK SHALL BE PROMPTLY PRUNED AND TREATED. LOW HANGING BRANCHES THAT COULD BE INJURED BY VEHICLES SHALL BE CAREFULLY PRUNED.

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DATE	DESCRIPTION	DATE	DESCRIPTION

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OSCEOLA COUNTY
 KISSIMMEE - ST. CLOUD
 CONNECTOR TRAIL

TREE PROTECTION
 BARRICADE DETAIL

SHEET NO.
 39