

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

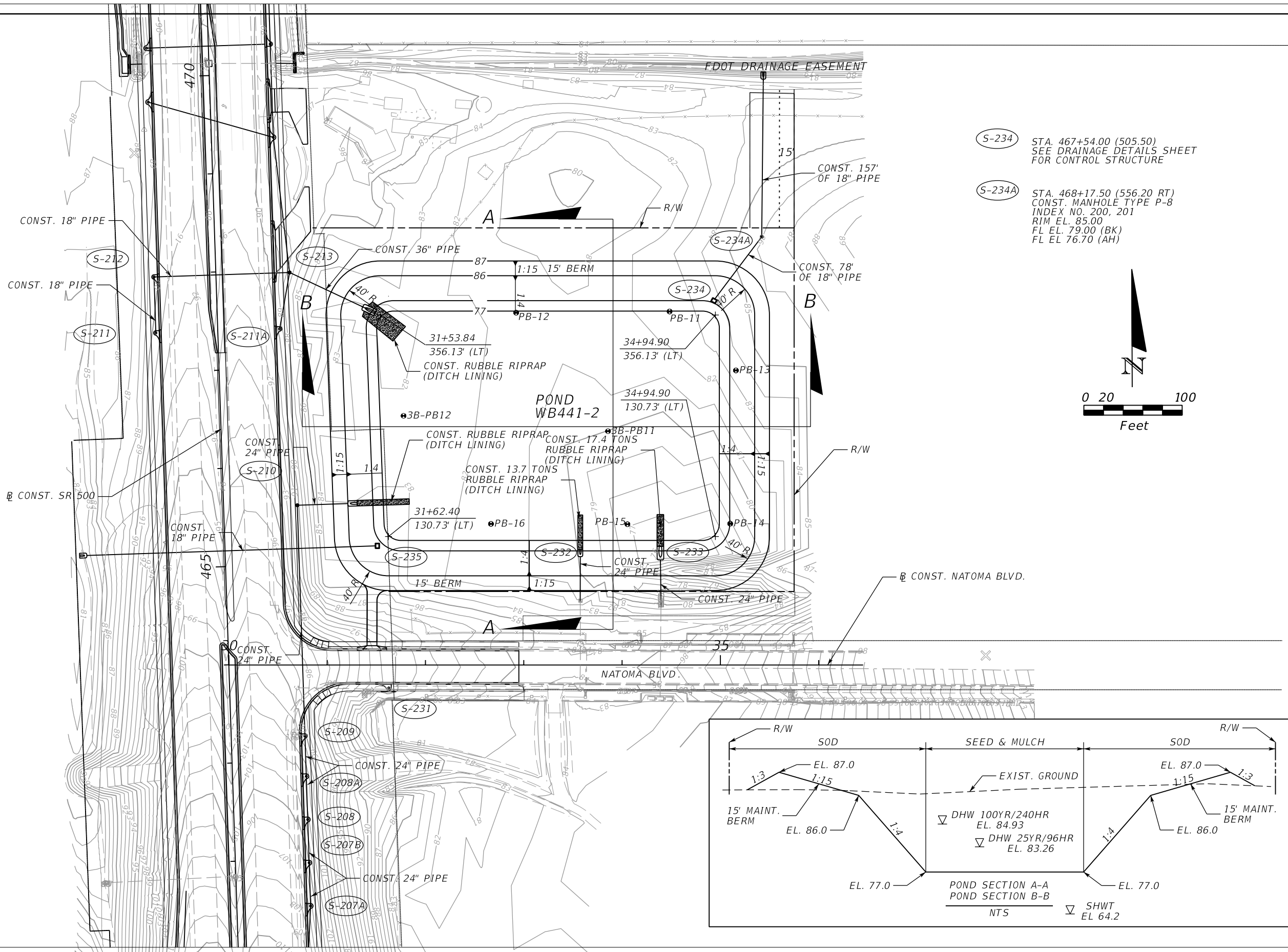
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
 KATHY L. DOBBINS, P.E.  
 FL REGISTRATION NO. 54791

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

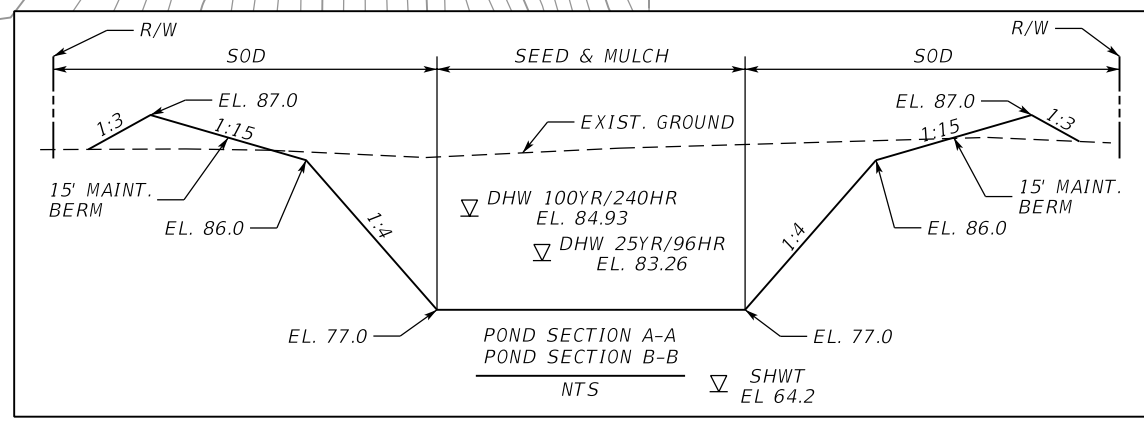
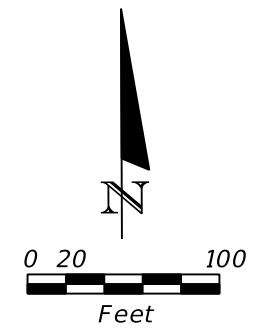
**POND DETAIL**  
**WB2B**

SHEET NO.  
 184



S-234 STA. 467+54.00 (505.50)  
SEE DRAINAGE DETAILS SHEET  
FOR CONTROL STRUCTURE

S-234A STA. 468+17.50 (556.20 RT)  
CONST. MANHOLE TYPE P-8  
INDEX NO. 200, 201  
RIM EL. 85.00  
FL EL. 79.00 (BK)  
FL EL. 76.70 (AH)



REVISIONS			
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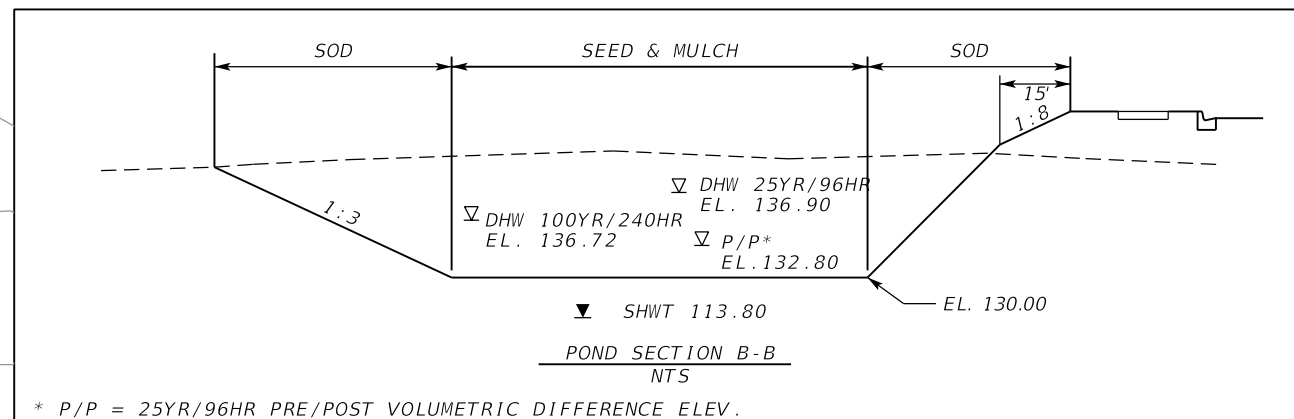
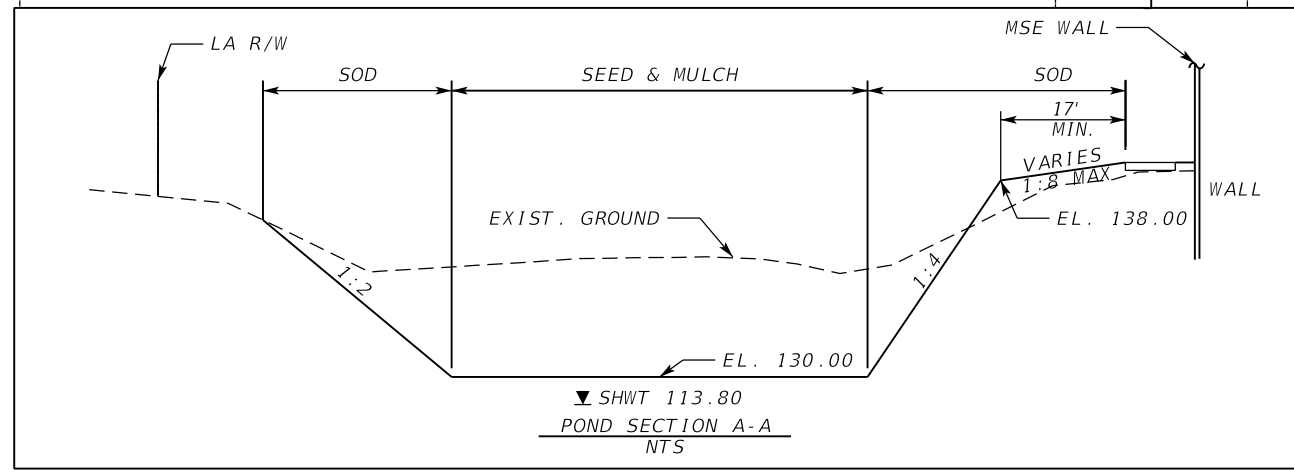
MOFFATT & NICHOL  
1025 GREENWOOD BLVD, STE 371  
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KATHY L. DOBBINS, P.E.  
FL REGISTRATION NO. 54791

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

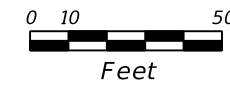
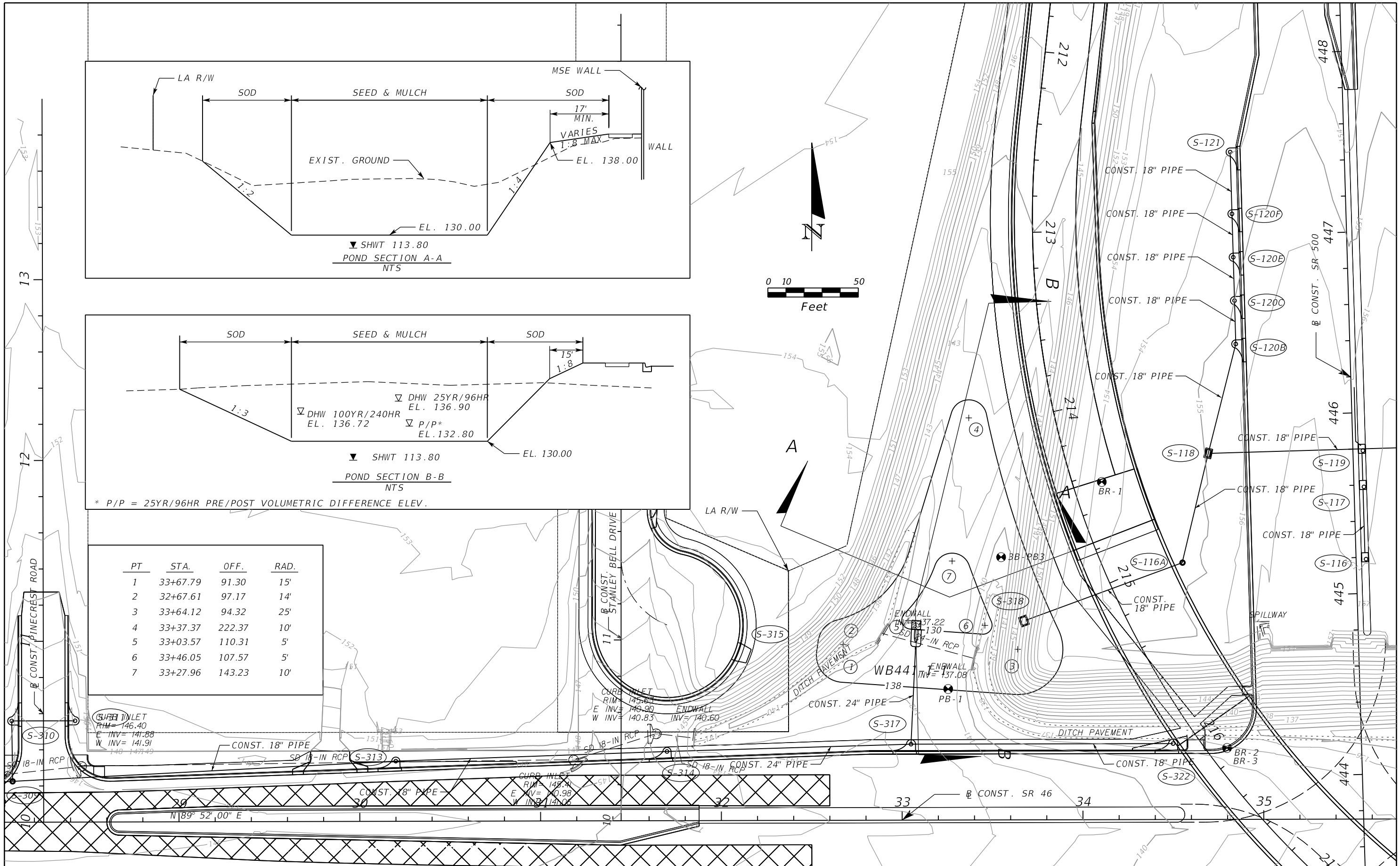
**POND DETAIL**  
**WB441-2**

SHEET  
NO.  
**185**

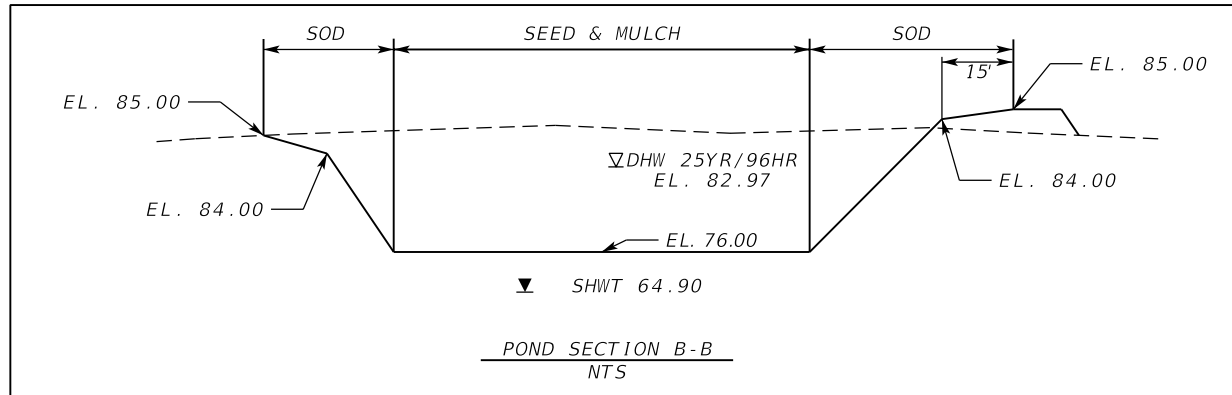
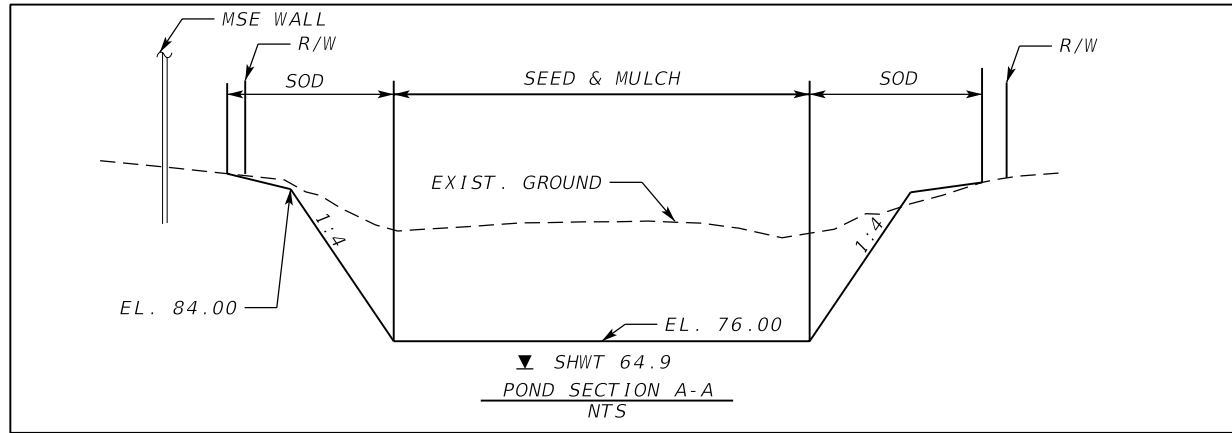


\* P/P = 25YR/96HR PRE/POST VOLUMETRIC DIFFERENCE ELEV.

PT	STA.	OFF.	RAD.
1	33+67.79	91.30	15'
2	32+67.61	97.17	14'
3	33+64.12	94.32	25'
4	33+37.37	222.37	10'
5	33+03.57	110.31	5'
6	33+46.05	107.57	5'
7	33+27.96	143.23	10'

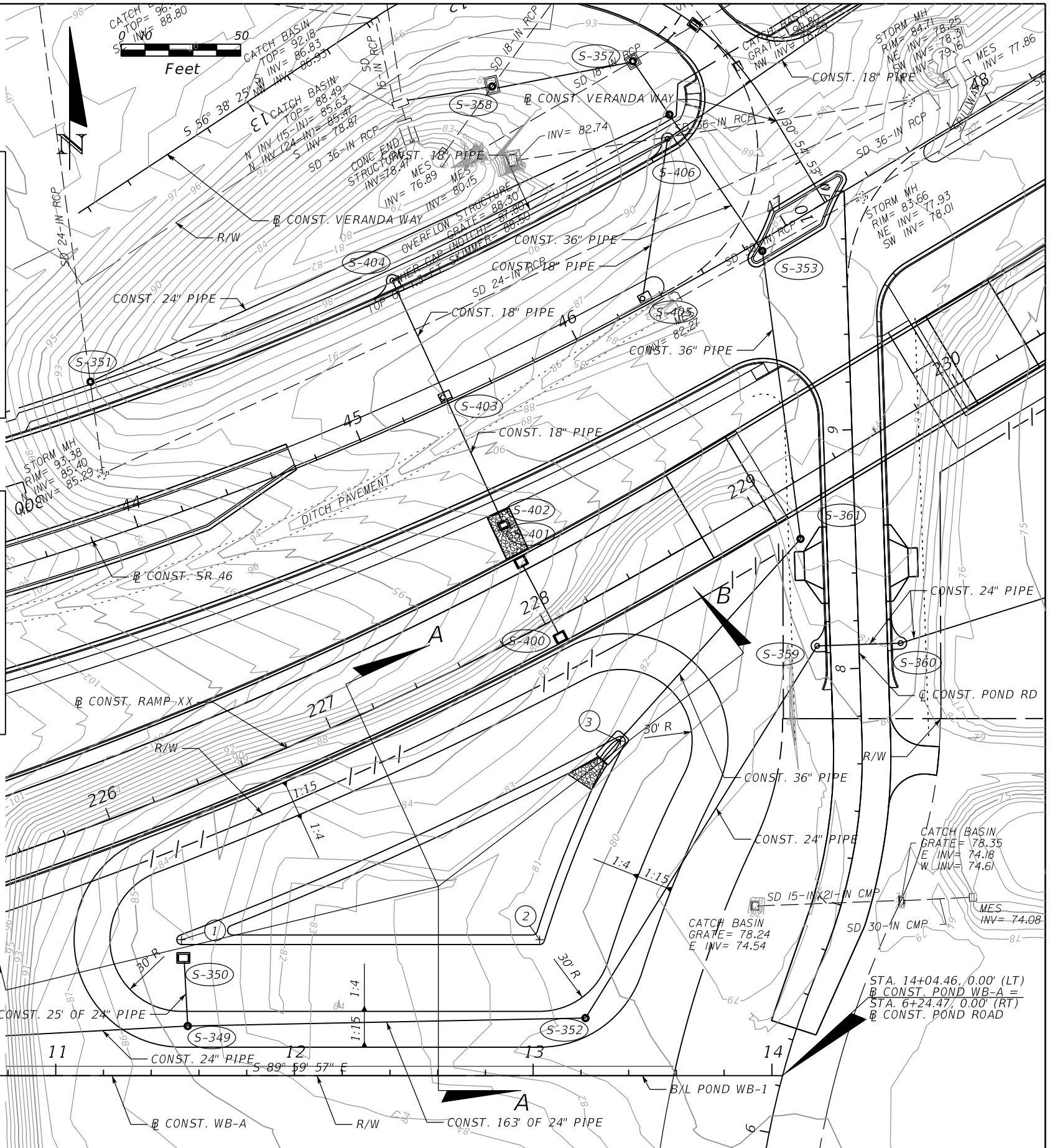


REVISIONS				MOFFATT & NICHOL 1025 GREENWOOD BLVD, STE 371 LAKE MARY, FL 32746 PHONE (407) 562-2030 CERT. OF AUTH. NO. 4877	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			POND DETAIL WB441-1-1	SHEET NO. 186
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				ENGINEER OF RECORD: KATHY L. DOBBINS, P.E. FL REGISTRATION NO. 54791	46	LAKE	238275-2-52-01		



PT	STA.	OFF.	RAD.
1	11+52.69	56.90	30'
2	32+67.61	56.90	30'
3	13+36.59	140.09	30'

NOTE: STATION AND OFFSET TAKEN FROM @ CONST. WB-A\_CHAIN



REVISIONS				MOFFATT & NICHOL 1025 GREENWOOD BLVD, STE 371 LAKE MARY, FL 32746 PHONE (407) 562-2030 CERT. OF AUTH. NO. 4877	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			POND DETAIL WB-A	SHEET NO. 187
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				ENGINEER OF RECORD: KATHY L. DOBBINS, P.E. FL REGISTRATION NO. 54791	46	LAKE	238275-2-52-01		

DATE OF SURVEY: JUNE 2013  
 SURVEY MADE BY: D. HALL, J. BRADLEY, T. ROBINSON, R. ROBINSON  
 SUBMITTED BY: GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC.

**STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION  
 MATERIALS AND RESEARCH**

DISTRICT: 5  
 ROAD NO.: SR 46  
 COUNTY: LAKE

FINANCIAL PROJECT ID : 238275-2-52-02

PROJECT NAME: SR 46 FROM WEST OF US 441 TO VISTA VIEW LANE

**CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS**

SR 46 SURVEY BEGINS STA. : 24+76 SURVEY ENDS STA. : 94+00  
 US 441 SURVEY BEGINS STA. : 427+00 SURVEY ENDS STA. : 477+50  
 RAMP YY SURVEY BEGINS STA. : 300+00 SURVEY ENDS STA. : 312+95  
 RAMP XX SURVEY BEGINS STA. : 200+00 SURVEY ENDS STA. : 244+28

STATIONS REFERENCE: CENTERLINE OF SURVEY

STRATUM NO.	NO. OF TESTS	% ORGANIC	NO. OF TESTS	MOISTURE CONTENT	NO. OF TESTS	SIEVE ANALYSIS RESULTS PERCENT PASS (%)					ATTERBERG LIMITS (%)			DESCRIPTION	CORROSION TEST RESULTS					
						10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX		AASHTO GROUP	NO. OF TESTS	RESISTIVITY ohm-cm	CHLORIDE ppm	SULFATES ppm	pH
1	6	2-4	6	6-19	59	100	52-94	32-81	12-51	1-10	0	-	-	A-3	LIGHT BROWN TO DARK BROWN TO ORANGE FINE SAND TO FINE SAND WITH SILT, OCCASIONAL TRACE TO SOME LIMESTONE AND TRACE ORGANIC MATERIAL	11	5,100-87,000	45	10-45	5.9-6.7
2	2	4	3	15-20	47	96-100	60-99	45-94	20-88	11-35	1	23	5	A-2-4	LIGHT BROWN TO DARK BROWN TO ORANGE FINE SAND WITH SILT TO SILTY FINE SAND, OCCASIONAL TRACE ORGANIC MATERIAL	7	3,300-26,000	30-60	20-276	5.3-6.7
3	0	-	5	11-22	5	100	97-99	87-94	66-85	30-63	5	24-40	11-28	A-6, A-2-6	LIGHT BROWN TO BROWN TO LIGHT GRAY CLAYEY FINE SAND	0	-	-	-	-
4	25	5-66	25	15-51	25	100	82-100	60-97	32-93	11-92	0	-	-	A-8	BROWN TO DARK BROWN MUCKY FINE SAND TO SANDY MUCK TO MUCK, OCCASIONAL TRACE TO SOME ROOTS	1	3,200	45	83	6.3
5	0	-	0	-	0	-	-	-	-	-	0	-	-	A-3, A-2-4	BROWN TO DARK BROWN CEMENTED FINE SAND WITH SILT TO SILTY FINE SAND (HARDPAN)	-	-	-	-	-

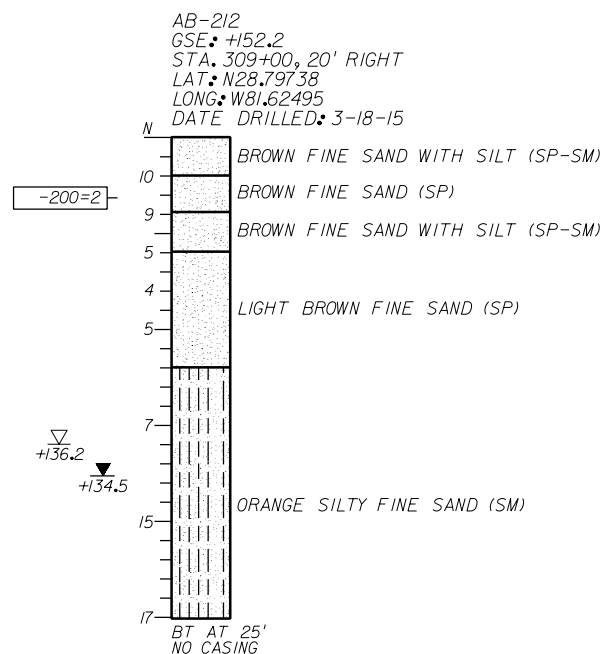
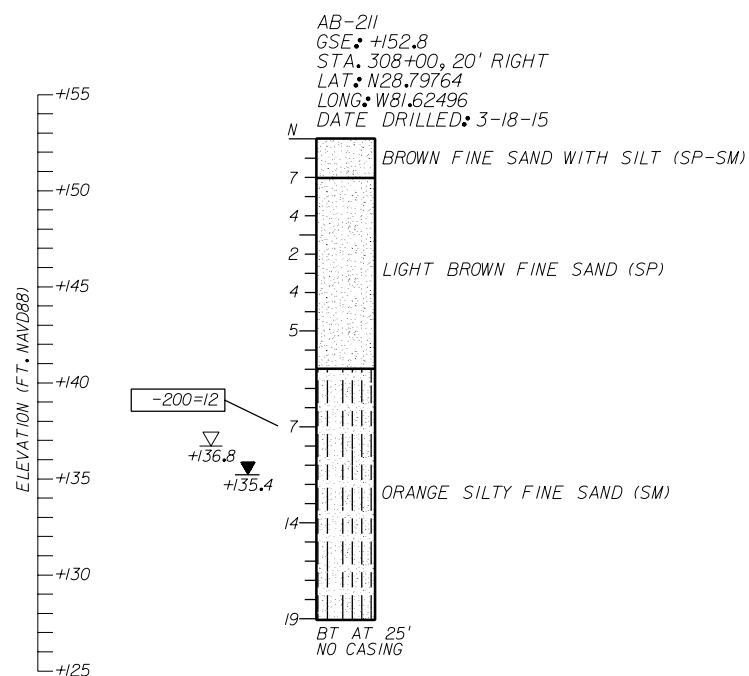
**NOTES**

1. STRATA BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH BORING LOCATION ONLY. ANY STRATUM CONNECTING LINES THAT ARE SHOWN ARE FOR ESTIMATING EARTHWORK ONLY AND DO NOT INDICATE ACTUAL STRATUM LIMITS. SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. FOR FURTHER DETAILS SEE SECTION 120-3.
2. WATER TABLE SHOWN AS WHERE ENCOUNTERED AT TIME OF SURVEY. GROUNDWATER NOT ENCOUNTERED SHOWN AS "GNE". ESTIMATED SEASONAL HIGH GROUNDWATER SHOWN AS . ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL ABOVE GROUND SURFACE SHOWN AS .
3. REMOVAL OF MUCK AND PLASTIC MATERIAL OCCURRING WITHIN ROADWAY SHALL BE ACCOMPLISHED IN ACCORDANCE WITH INDEX NO. 500 OF THE FDOT DESIGN STANDARDS UNLESS OTHERWISE SHOWN ON PLANS. THE MATERIAL USED IN EMBANKMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH INDEX NO. 505 OF THE FDOT DESIGN STANDARDS.
4. SOIL TEST RESULTS INCLUDES DATA FROM ROADWAY AND POND BORINGS.
5. THE SYMBOL "-" REPRESENTS AN UNMEASURED PARAMETER.
6. THE SYMBOL "NP" REPRESENTS NON-PLASTIC.
7. STRATA 1 AND 2 SHALL BE TREATED AS SELECT (S) MATERIAL IN ACCORDANCE WITH FDOT INDEX NOS. 500 AND 505.
8. STRATA 2 AND 5 MAY RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT.
9. STRATUM 3 SHALL BE TREATED AS PLASTIC (P) MATERIAL IN ACCORDANCE WITH FDOT INDEX NOS. 500 AND 505.
10. STRATUM 4 SHALL BE TREATED AS MUCK (M) IN ACCORDANCE WITH FDOT INDEX NOS. 500 AND 505.
11. STRATUM 5 MAY BE DIFFICULT TO DEWATER, EXCAVATE AND/OR PENETRATE AND MAY REQUIRE SPECIAL EQUIPMENT AND/OR PROCEDURES TO FACILITATE DEWATERING, EXCAVATION AND/OR PENETRATION. STRATUM 5 CAN BE TREATED AS SELECT (S) MATERIAL BUT MAY NEED TO BE PULVERIZED PRIOR TO USE AS FILL.
12. LAYERS OF VERY HARD MATERIAL SUCH AS HARDPAN, CEMENTED SAND, ETC. MAY BE ENCOUNTERED IN VARIOUS AREAS OF THE PROJECT. SUCH MATERIALS WILL BE DIFFICULT TO EXCAVATE OR PENETRATE. THE CONTRACTOR SHALL EXPECT TO ENCOUNTER THESE VERY HARD MATERIALS IN ALL EXCAVATIONS AND SHALL USE SPECIALIZED EQUIPMENT AND/OR PROCEDURES AS NECESSARY TO FACILITATE EXCAVATIONS OR PENETRATIONS.
13. ROADWAY SPT BORINGS ARE DEPICTED ON CROSS SECTIONS IN PROJECT PLANS BUT HAVE BEEN TRUNCATED TO A MAXIMUM DEPTH OF 50 FEET. FOR DETAILED RESULTS OF SPT BORINGS, SEE THE ROADWAY SPT BORING RESULTS SHEETS.

**FIGURE 2**

REVISIONS				<b>GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. (GEC)</b> 919 Lake Baldwin Lane Orlando, FL 32814 T 407-898-1818 F 407-898-1837 Certificate of Authorization No. 5882 <b>CRAIG G. BALLOCK PE NO. 71571</b>	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>ROADWAY SOIL SURVEY</b>	SHEET NO.  <b>188</b>
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					46	LAKE	238275-2-52-02		

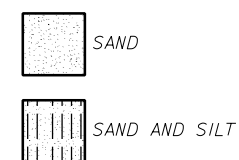
**RAMP YY**



**LEGEND**

- ▽ +136.8 ESTIMATED SEASONAL HIGH GROUNDWATER ELEVATION (FT. NAVD88)
- ▼ +135.4 ENCOUNTERED GROUNDWATER ELEVATION (FT. NAVD88) 24 HRS. AFTER DRILLING BORING
- GSE GROUND SURFACE ELEVATION (FT. NAVD88)
- N STANDARD PENETRATION RESISTANCE, BLOWS PER FOOT
- (SP) UNIFIED SOIL CLASSIFICATION SYMBOL
- BT BORING TERMINATED AT SPECIFIED DEPTH (FEET) INDICATED
- 200= PERCENT PASSING NO. 200 U.S. STANDARD SIEVE (FM 1-T 088)

**SOILS LEGEND**



**GENERAL NOTES**

STANDARD PENETRATION TEST BORINGS WERE PERFORMED IN ACCORDANCE WITH ASTM D-1586. STANDARD PENETRATION RESISTANCES ARE SHOWN ON THE BORINGS AT THE TEST DEPTHS IN BLOWS PER FOOT UNLESS OTHERWISE NOTED.

SUBSURFACE CONDITIONS SHOWN ON THE BORINGS REPRESENT THE CONDITIONS ENCOUNTERED AT THE BORING LOCATIONS. ACTUAL CONDITIONS BETWEEN BORINGS MAY VARY FROM THOSE SHOWN. UNIFIED SOIL CLASSIFICATIONS SHOWN ON THE BORINGS ARE BASED ON VISUAL EXAMINATION AND THE LABORATORY TESTING SHOWN.

THE BORING LOCATIONS WERE NOT SURVEYED. BORING LOCATIONS WERE ESTABLISHED IN THE FIELD USING A SUB-METER ACCURACY GPS UNIT (TRIMBLE 7X) FOR HORIZONTAL AND VERTICAL CONTROL. GROUND SURFACE ELEVATIONS ESTIMATED FROM PROJECT CROSS SECTIONS. BORING LOCATIONS REFERENCE RAMP YY CENTERLINE.

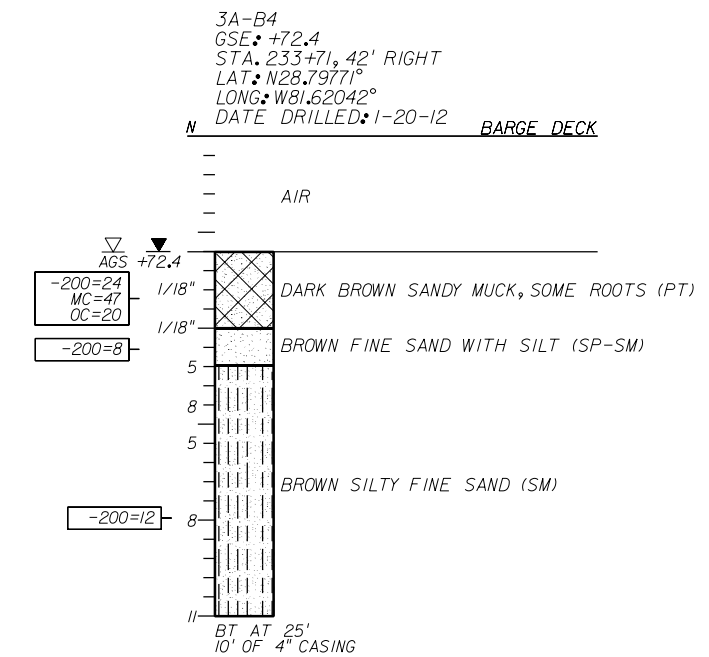
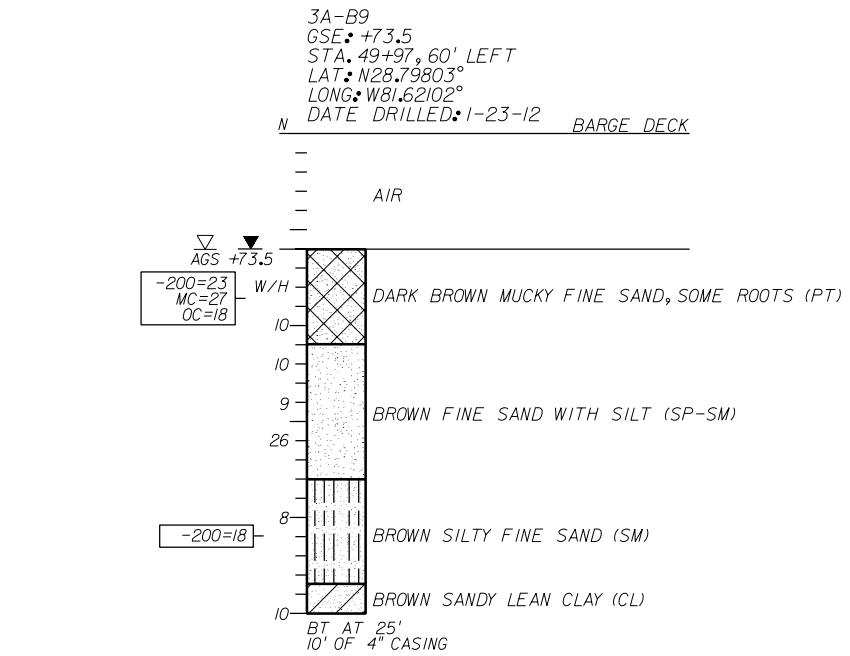
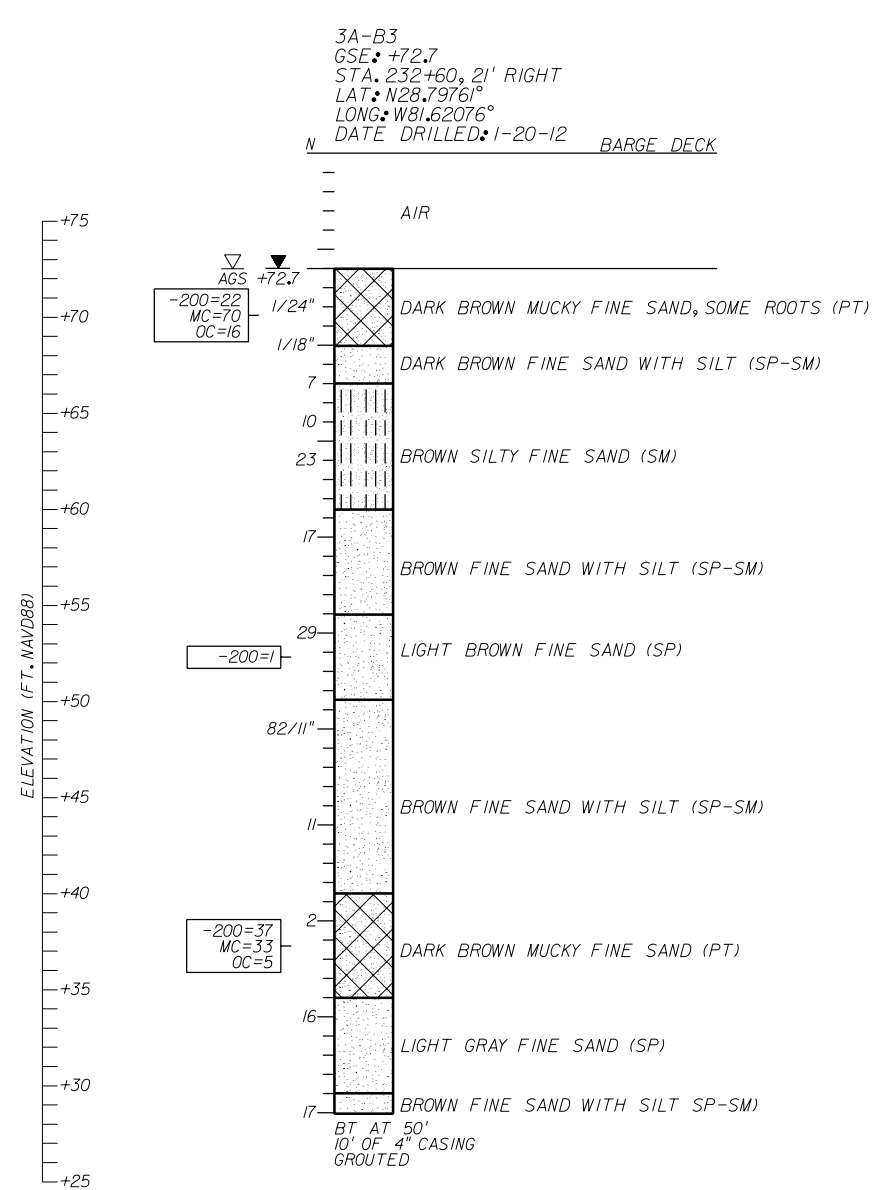
SPLIT SPOON SAMPLER: AVERAGE HAMMER DROP: 30 IN.  
 INSIDE DIAMETER: 1.375 IN. HAMMER WEIGHT: 140 LBS.  
 OUTSIDE DIAMETER: 2.0 IN. HAMMER TYPE: AUTOMATIC

**CORRELATION OF STANDARD PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL**

GRANULAR SOILS	N VALUE (blows per foot)	RELATIVE DENSITY
SANDS	0-3	VERY LOOSE
	3-8	LOOSE
	8-24	MEDIUM DENSE
	24-40	DENSE
	OVER 40	VERY DENSE
NON-GRANULAR SOILS	N VALUE (blows per foot)	CONSISTENCY
SILTS, CLAYS, MUCK, PEAT	0-1	VERY SOFT
	1-3	SOFT
	3-6	FIRM
	6-12	STIFF
	12-24	VERY STIFF
	OVER 24	HARD

**FIGURE 21**

REVISIONS				<b>GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. (GEC)</b> 919 Lake Baldwin Lane Orlando, FL 32814 T 407-898-1818 F 407-898-1837 Certificate of Authorization No. 5882 <b>CRAIG G. BALLOCK P.E. 71571</b>	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>ROADWAY SPT BORING RESULTS</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					46	LAKE	238275-2-52-02		189



**LEGEND**

▽ AGS ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL ABOVE EXISTING GROUND SURFACE  
 ▼ +72.7 ENCOUNTERED GROUNDWATER ELEVATION (FT. NAVD88) 24 HRS. AFTER DRILLING BORING  
 GSE GROUND SURFACE ELEVATION (FT. NAVD88)  
 N STANDARD PENETRATION RESISTANCE, BLOWS PER FOOT  
 W/H WEIGHT OF HAMMER  
 82/11" NUMBER OF BLOWS FOR 11 INCHES OF PENETRATION  
 (SP) UNIFIED SOIL CLASSIFICATION SYMBOL  
 BT BORING TERMINATED AT SPECIFIED DEPTH (FEET) INDICATED  
 -200= PERCENT PASSING NO. 200 U.S. STANDARD SIEVE (FM 1-T 088)  
 MC= PERCENT NATURAL MOISTURE CONTENT (FM 1-T 265)  
 OC= PERCENT ORGANIC CONTENT (FM 1-T 267)

**SOILS LEGEND**

SAND SAND AND MUCK  
 SAND AND SILT SAND AND CLAY

**GENERAL NOTES**

STANDARD PENETRATION TEST BORINGS WERE PERFORMED IN ACCORDANCE WITH ASTM D-1586. STANDARD PENETRATION RESISTANCES ARE SHOWN ON THE BORINGS AT THE TEST DEPTHS IN BLOWS PER FOOT UNLESS OTHERWISE NOTED.

SUBSURFACE CONDITIONS SHOWN ON THE BORINGS REPRESENT THE CONDITIONS ENCOUNTERED AT THE BORING LOCATIONS. ACTUAL CONDITIONS BETWEEN BORINGS MAY VARY FROM THOSE SHOWN. UNIFIED SOIL CLASSIFICATIONS SHOWN ON THE BORINGS ARE BASED ON VISUAL EXAMINATION AND THE LABORATORY TESTING SHOWN.

THE BORING LOCATIONS WERE SURVEYED BY MCKIM & CREED FOR VERTICAL AND HORIZONTAL CONTROL. BORING LOCATION 3A-B9 REFERENCES THE SR 46 CENTERLINE AND BORING LOCATIONS 3A-B3 AND 3A-B4 REFERENCE THE RAMP XX CENTERLINE.

SPLIT SPOON SAMPLER: AVERAGE HAMMER DROP: 30 IN.  
 INSIDE DIAMETER: 1.375 IN. HAMMER WEIGHT: 140 LBS.  
 OUTSIDE DIAMETER: 2.0 IN. HAMMER TYPE: SAFETY (MANUAL)

**CORRELATION OF STANDARD PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL**

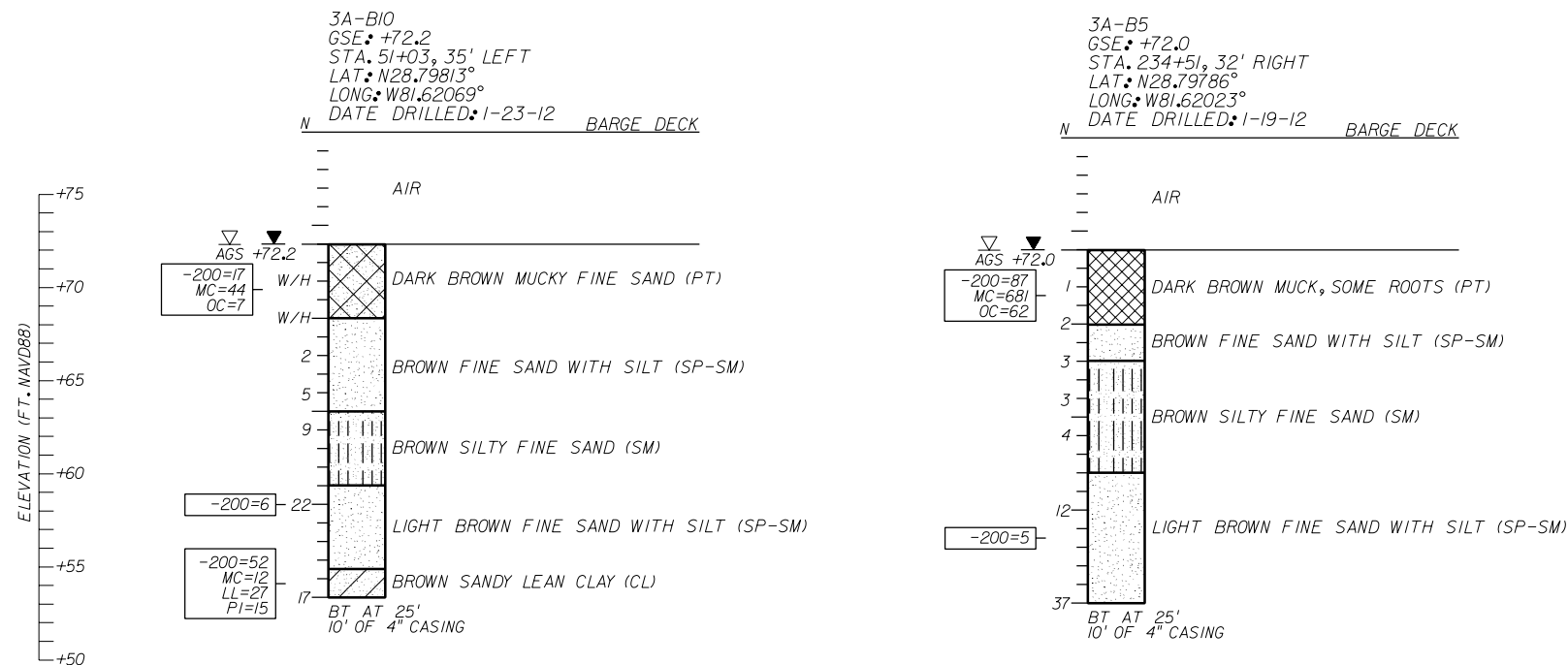
GRANULAR SOILS	N VALUE (blows per foot)	RELATIVE DENSITY
SANDS	0-4	VERY LOOSE
	4-10	LOOSE
	10-30	MEDIUM DENSE
	30-50	DENSE
	OVER 50	VERY DENSE
NON-GRANULAR SOILS	N VALUE (blows per foot)	CONSISTENCY
SILTS, CLAYS, MUCK, PEAT	0-2	VERY SOFT
	2-4	SOFT
	4-8	FIRM
	8-15	STIFF
	15-30	VERY STIFF
	OVER 30	HARD

SECTION: 33  
 TOWNSHIP: 19 SOUTH  
 RANGE: 27 EAST

FIGURE 15

REVISIONS				<b>GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. (GEC)</b> 919 Lake Baldwin Lane Orlando, FL 32814 T 407-898-1818 F 407-898-1837 Certificate of Authorization No. 5882 <b>CRAIG G. BALLOCK PE NO. 71571</b>	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>ROADWAY SPT BORING RESULTS</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					46	LAKE	238275-2-52-02		190

SR 46 / RAMP XX



**LEGEND**  
 ▽ AGS ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL ABOVE EXISTING GROUND SURFACE  
 ▼ +72.2 ENCOUNTERED GROUNDWATER ELEVATION (FT. NAVD88) 24 HRS. AFTER DRILLING BORING  
 GSE GROUND SURFACE ELEVATION (FT. NAVD88)  
 N STANDARD PENETRATION RESISTANCE, BLOWS PER FOOT  
 W/H WEIGHT OF HAMMER  
 (SP) UNIFIED SOIL CLASSIFICATION SYMBOL  
 BT BORING TERMINATED AT SPECIFIED DEPTH (FEET) INDICATED  
 -200= PERCENT PASSING NO. 200 U.S. STANDARD SIEVE (FM 1-T 088)  
 MC= PERCENT NATURAL MOISTURE CONTENT (FM 1-T 265)  
 LL= LIQUID LIMIT (FM 1-T 089)  
 PI= PLASTICITY INDEX (FM 1-T 290)  
 OC= PERCENT ORGANIC CONTENT (FM 1-T 267)

**SOILS LEGEND**

	SAND		SAND AND MUCK		SAND AND CLAY
	SAND AND SILT		MUCK		

**GENERAL NOTES**  
 STANDARD PENETRATION TEST BORINGS WERE PERFORMED IN ACCORDANCE WITH ASTM D-1586. STANDARD PENETRATION RESISTANCES ARE SHOWN ON THE BORINGS AT THE TEST DEPTHS IN BLOWS PER FOOT UNLESS OTHERWISE NOTED.  
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 THE BORING LOCATIONS WERE SURVEYED BY McKIM & CREED FOR VERTICAL AND HORIZONTAL CONTROL. BORING LOCATION 3A-B10 REFERENCES THE SR 46 CENTERLINE AND BORING LOCATION 3A-B5 REFERENCES THE RAMP XX CENTERLINE.  
 SPLIT SPOON SAMPLER: AVERAGE HAMMER DROP: 30 IN.  
 INSIDE DIAMETER: 1.375 IN. HAMMER WEIGHT: 140 LBS.  
 OUTSIDE DIAMETER: 2.0 IN. HAMMER TYPE: SAFETY (MANUAL)

**CORRELATION OF STANDARD PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL**

GRANULAR SOILS	N VALUE (blows per foot)	RELATIVE DENSITY
SANDS	0-4	VERY LOOSE
	4-10	LOOSE
	10-30	MEDIUM DENSE
	30-50	DENSE
	OVER 50	VERY DENSE
NON-GRANULAR SOILS	N VALUE (blows per foot)	CONSISTENCY
SILTS, CLAYS, MUCK, PEAT	0-2	VERY SOFT
	2-4	SOFT
	4-8	FIRM
	8-15	STIFF
	15-30	VERY STIFF
	OVER 30	HARD

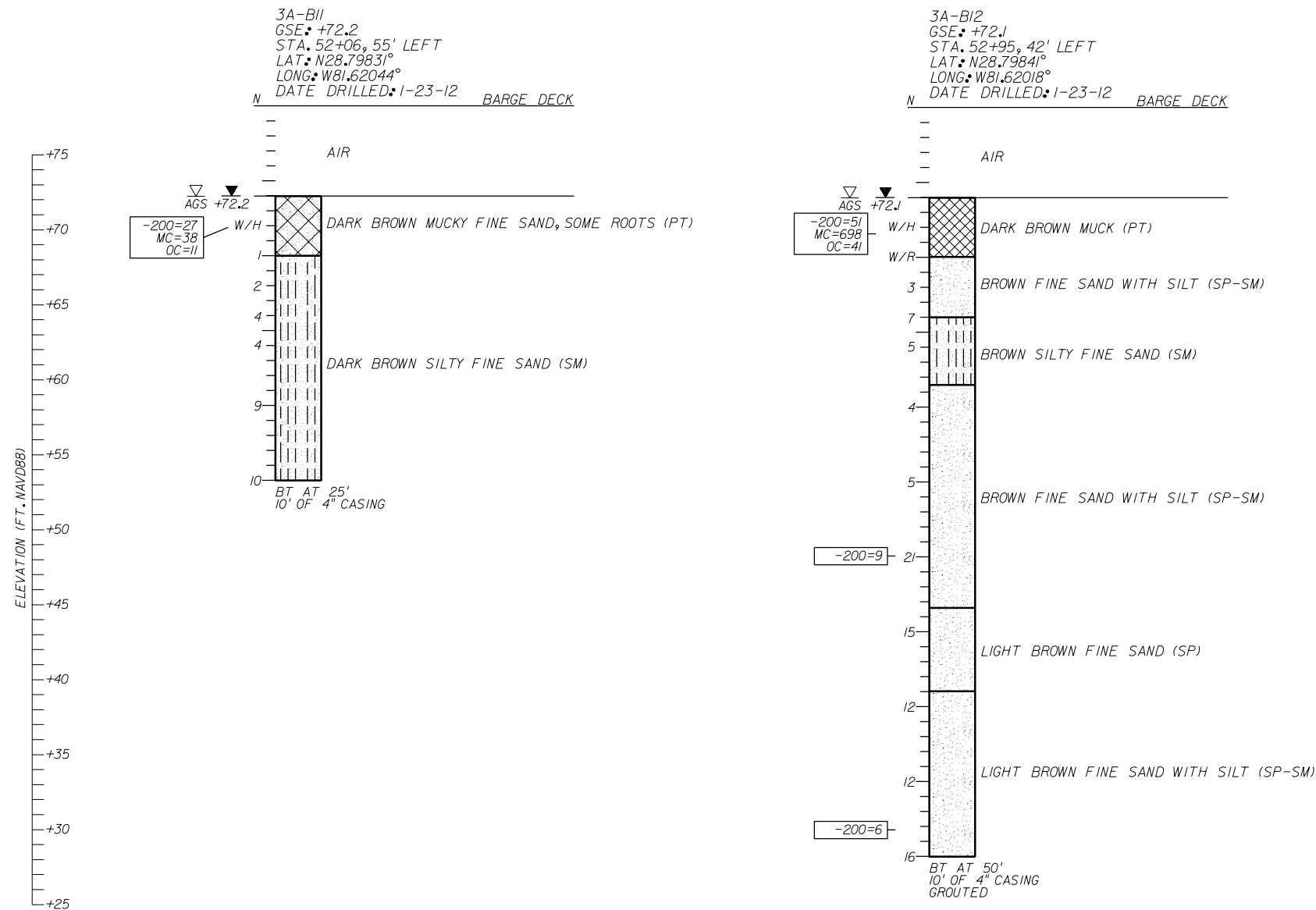
SECTION: 33  
 TOWNSHIP: 19 SOUTH  
 RANGE: 27 EAST

FIGURE 16

REVISIONS				<b>GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. (GEC)</b> 919 Lake Baldwin Lane Orlando, FL 32814 T 407-898-1818 F 407-898-1837 Certificate of Authorization No. 5882 <b>CRAIG G. BALLOCK PE NO. 71571</b>	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>ROADWAY SPT BORING RESULTS</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						46	LAKE		238275-2-52-02

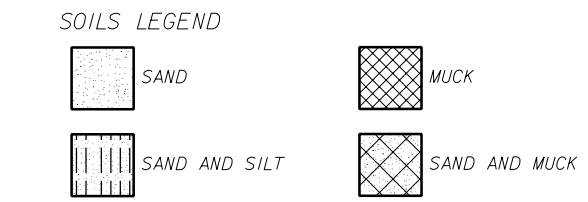


SR 46



**LEGEND**

▽ AGS ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL ABOVE EXISTING GROUND SURFACE  
 ▼ AGS ENCOUNTERED GROUNDWATER ELEVATION (FT. NAVD88) 24 HRS. AFTER DRILLING BORING  
 +72.2 GSE GROUND SURFACE ELEVATION (FT. NAVD88)  
 N STANDARD PENETRATION RESISTANCE, BLOWS PER FOOT  
 W/R WEIGHT OF ROD  
 W/H WEIGHT OF HAMMER  
 (SP) UNIFIED SOIL CLASSIFICATION SYMBOL  
 BT BORING TERMINATED AT SPECIFIED DEPTH (FEET) INDICATED  
 -200= PERCENT PASSING NO. 200 U.S. STANDARD SIEVE (FM 1-T 088)  
 MC= PERCENT NATURAL MOISTURE CONTENT (FM 1-T 265)  
 OC= PERCENT ORGANIC CONTENT (FM 1-T 267)



**GENERAL NOTES**

STANDARD PENETRATION TEST BORINGS WERE PERFORMED IN ACCORDANCE WITH ASTM D-1586. STANDARD PENETRATION RESISTANCES ARE SHOWN ON THE BORINGS AT THE TEST DEPTHS IN BLOWS PER FOOT UNLESS OTHERWISE NOTED.

SUBSURFACE CONDITIONS SHOWN ON THE BORINGS REPRESENT THE CONDITIONS ENCOUNTERED AT THE BORING LOCATIONS. ACTUAL CONDITIONS BETWEEN BORINGS MAY VARY FROM THOSE SHOWN. UNIFIED SOIL CLASSIFICATIONS SHOWN ON THE BORINGS ARE BASED ON VISUAL EXAMINATION AND THE LABORATORY TESTING SHOWN.

THE BORING LOCATIONS WERE SURVEYED BY McKIM & CREED FOR VERTICAL AND HORIZONTAL CONTROL. BORING LOCATIONS REFERENCE THE SR 46 CENTERLINE.

SPLIT SPOON SAMPLER: AVERAGE HAMMER DROP: 30 IN.  
 INSIDE DIAMETER: 1.375 IN. HAMMER WEIGHT: 140 LBS.  
 OUTSIDE DIAMETER: 2.0 IN. HAMMER TYPE: SAFETY (MANUAL)

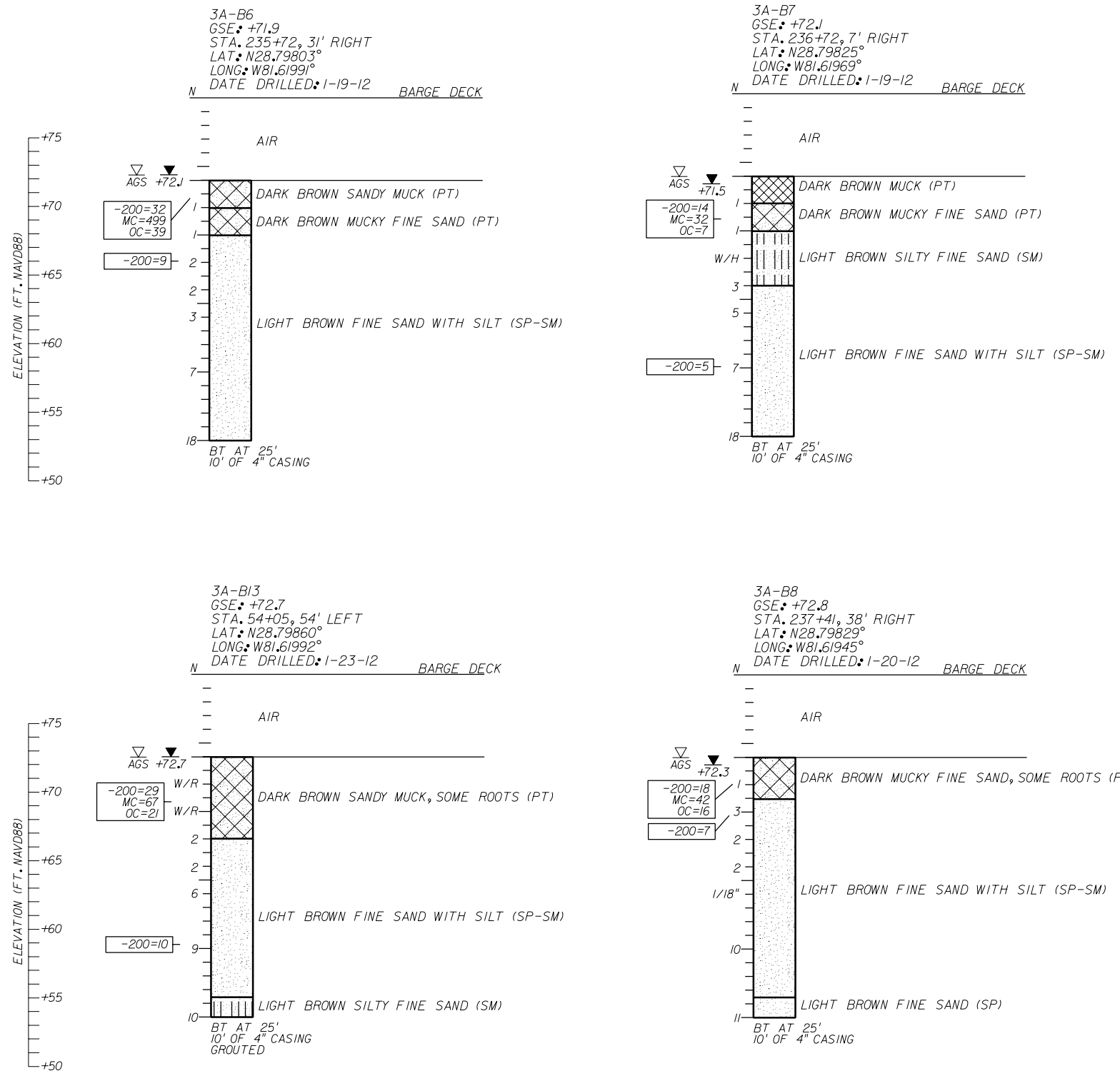
**CORRELATION OF STANDARD PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL**

GRANULAR SOILS	N VALUE (blows per foot)	RELATIVE DENSITY
SANDS	0-4	VERY LOOSE
	4-10	LOOSE
	10-30	MEDIUM DENSE
	30-50	DENSE
	OVER 50	VERY DENSE
NON-GRANULAR SOILS	N VALUE (blows per foot)	CONSISTENCY
SILTS, CLAYS, MUCK, PEAT	0-2	VERY SOFT
	2-4	SOFT
	4-8	FIRM
	8-15	STIFF
	15-30	VERY STIFF
	OVER 30	HARD

SECTION: 33  
 TOWNSHIP: 19 SOUTH  
 RANGE: 27 EAST

FIGURE 17

<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				DATE	DESCRIPTION	DATE	DESCRIPTION					<p><b>GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. (GEC)</b>                  919 Lake Baldwin Lane                  Orlando, FL 32814                  T 407-898-1818 F 407-898-1837                  Certificate of Authorization No. 5882  <b>CRAIG G. BALLOCK PE NO. 71571</b></p>		<p>STATE OF FLORIDA                  DEPARTMENT OF TRANSPORTATION</p> <table border="1"> <thead> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> </thead> <tbody> <tr> <td>46</td> <td>LAKE</td> <td>238275-2-52-02</td> </tr> </tbody> </table>		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	46	LAKE	238275-2-52-02	<p><b>ROADWAY SPT BORING RESULTS</b></p>		<p>SHEET NO.                  192</p>
DATE	DESCRIPTION	DATE	DESCRIPTION																					
ROAD NO.	COUNTY	FINANCIAL PROJECT ID																						
46	LAKE	238275-2-52-02																						



**LEGEND**

▽ AGS ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL ABOVE EXISTING GROUND SURFACE  
 ▼ +72.1 ENCOUNTERED GROUNDWATER ELEVATION (FT. NAVD88) 24 HRS. AFTER DRILLING BORING  
 GSE GROUND SURFACE ELEVATION (FT. NAVD88)  
 N STANDARD PENETRATION RESISTANCE, BLOWS PER FOOT  
 1/18" NUMBER OF BLOWS FOR 18 INCHES OF PENETRATION  
 W/R WEIGHT OF ROD  
 W/H WEIGHT OF HAMMER  
 (SP) UNIFIED SOIL CLASSIFICATION SYMBOL  
 BT BORING TERMINATED AT SPECIFIED DEPTH (FEET) INDICATED  
 -200= PERCENT PASSING NO. 200 U.S. STANDARD SIEVE (FM 1-T 088)  
 MC= PERCENT NATURAL MOISTURE CONTENT (FM 1-T 265)  
 OC= PERCENT ORGANIC CONTENT (FM 1-T 267)

**SOILS LEGEND**

SAND MUCK  
 SAND AND SILT SAND AND MUCK

**GENERAL NOTES**

STANDARD PENETRATION TEST BORINGS WERE PERFORMED IN ACCORDANCE WITH ASTM D-1586. STANDARD PENETRATION RESISTANCES ARE SHOWN ON THE BORINGS AT THE TEST DEPTHS IN BLOWS PER FOOT UNLESS OTHERWISE NOTED.

SUBSURFACE CONDITIONS SHOWN ON THE BORINGS REPRESENT THE CONDITIONS ENCOUNTERED AT THE BORING LOCATIONS. ACTUAL CONDITIONS BETWEEN BORINGS MAY VARY FROM THOSE SHOWN. UNIFIED SOIL CLASSIFICATIONS SHOWN ON THE BORINGS ARE BASED ON VISUAL EXAMINATION AND THE LABORATORY TESTING SHOWN.

THE BORING LOCATIONS WERE SURVEYED BY McKIM & CREED FOR VERTICAL AND HORIZONTAL CONTROL. BORING LOCATION 3A-B13 REFERENCES THE SR 46 CENTERLINE AND BORING LOCATIONS 3A-B6, 3A-B7 AND 3A-B8 REFERENCE THE RAMP XX CENTERLINE.

SPLIT SPOON SAMPLER: AVERAGE HAMMER DROP: 30 IN.  
 INSIDE DIAMETER: 1.375 IN. HAMMER WEIGHT: 140 LBS.  
 OUTSIDE DIAMETER: 2.0 IN. HAMMER TYPE: SAFETY (MANUAL)

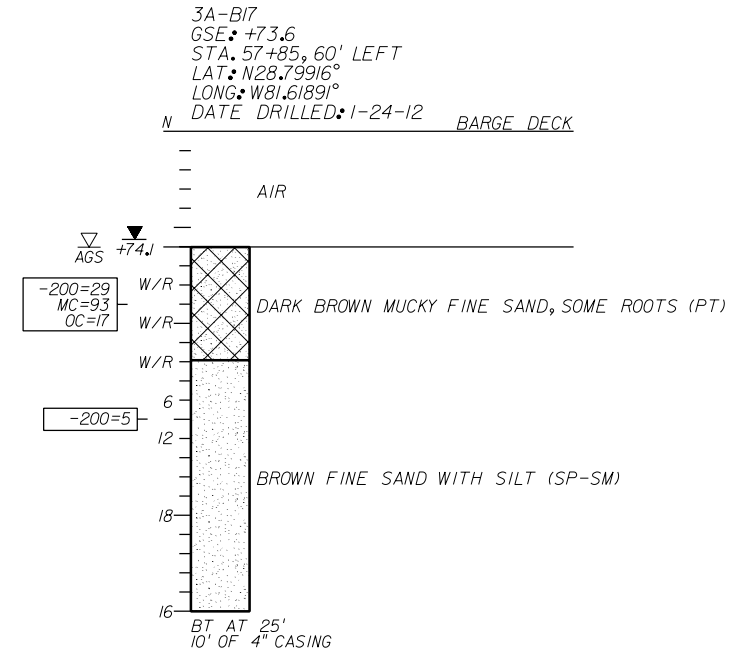
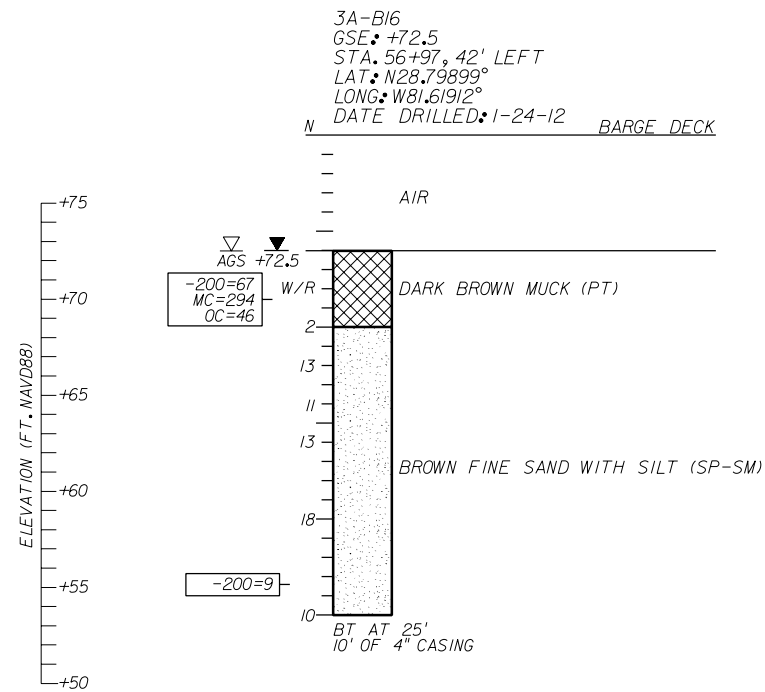
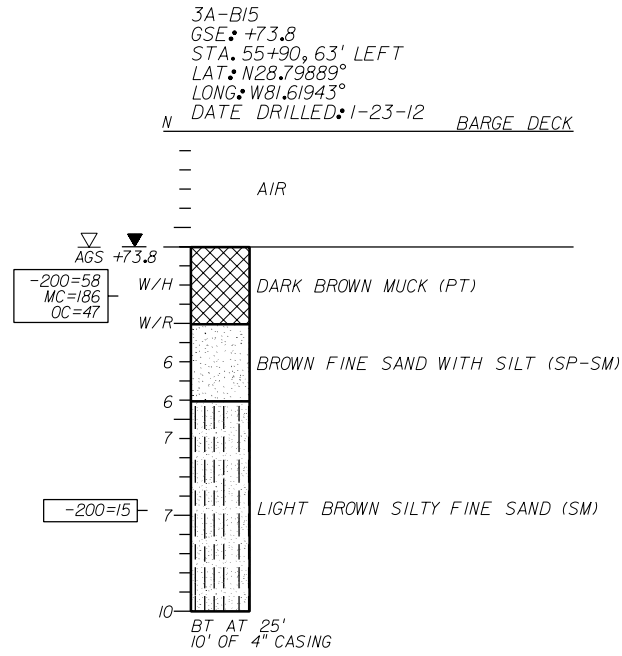
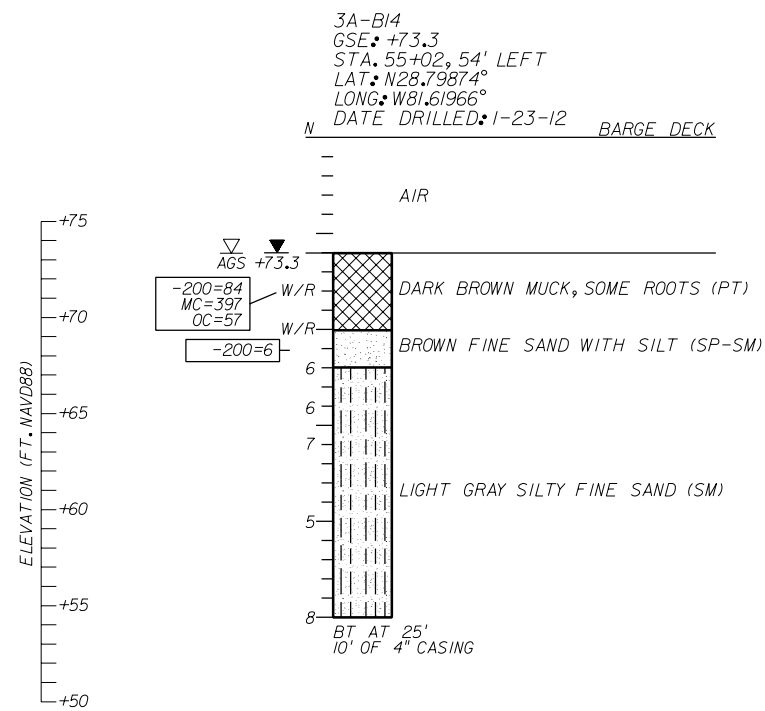
**CORRELATION OF STANDARD PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL**

GRANULAR SOILS	N VALUE (blows per foot)	RELATIVE DENSITY
SANDS	0-4	VERY LOOSE
	4-10	LOOSE
	10-30	MEDIUM DENSE
	30-50	DENSE
	OVER 50	VERY DENSE
NON-GRANULAR SOILS	N VALUE (blows per foot)	CONSISTENCY
SILTS, CLAYS, MUCK, PEAT	0-2	VERY SOFT
	2-4	SOFT
	4-8	FIRM
	8-15	STIFF
	15-30	VERY STIFF
	OVER 30	HARD

SECTION: 33  
 TOWNSHIP: 19 SOUTH  
 RANGE: 27 EAST

FIGURE 18

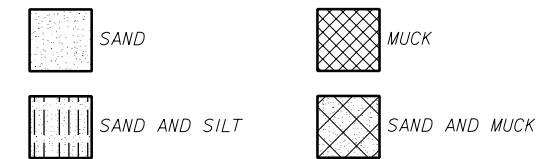
REVISIONS				<b>GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. (GEC)</b> 919 Lake Baldwin Lane Orlando, FL 32814 T 407-898-1818 F 407-898-1837 Certificate of Authorization No. 5882 <b>CRAIG G. BALLOCK PE NO. 71571</b>	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>ROADWAY SPT BORING RESULTS</b>	SHEET NO.  193
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					46	LAKE	238275-2-52-02		



LEGEND

- ▽ AGS ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL ABOVE EXISTING GROUND SURFACE
- ▼ +73.3 ENCOUNTERED GROUNDWATER ELEVATION (FT. NAVD88) 24 HRS. AFTER DRILLING BORING
- GSE GROUND SURFACE ELEVATION (FT. NAVD88)
- N STANDARD PENETRATION RESISTANCE, BLOWS PER FOOT
- W/H WEIGHT OF HAMMER
- W/R WEIGHT OF ROD
- (SP) UNIFIED SOIL CLASSIFICATION SYMBOL
- BT BORING TERMINATED AT SPECIFIED DEPTH (FEET) INDICATED
- 200= PERCENT PASSING NO. 200 U.S. STANDARD SIEVE (FM I-T 088)
- MC= PERCENT NATURAL MOISTURE CONTENT (FM I-T 265)
- OC= PERCENT ORGANIC CONTENT (FM I-T 267)

SOILS LEGEND



GENERAL NOTES

STANDARD PENETRATION TEST BORINGS WERE PERFORMED IN ACCORDANCE WITH ASTM D-1586. STANDARD PENETRATION RESISTANCES ARE SHOWN ON THE BORINGS AT THE TEST DEPTHS IN BLOWS PER FOOT UNLESS OTHERWISE NOTED.

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 OUTSIDE DIAMETER: 2.0 IN. HAMMER TYPE: SAFETY (MANUAL)

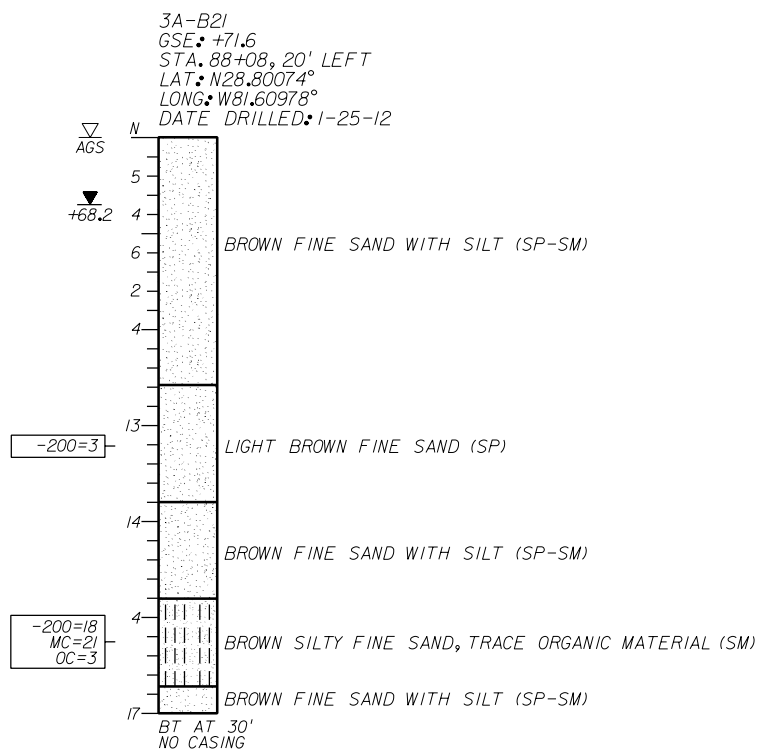
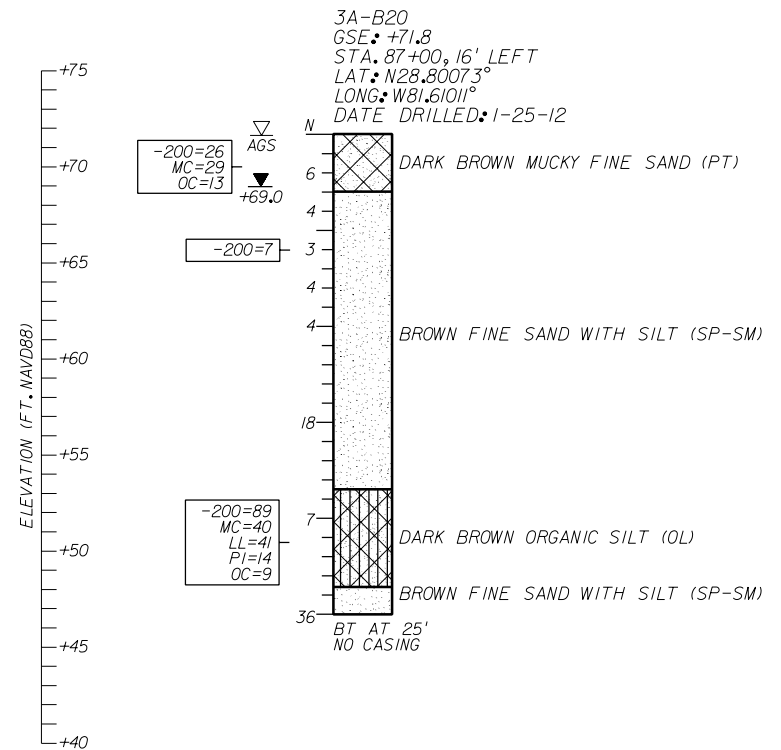
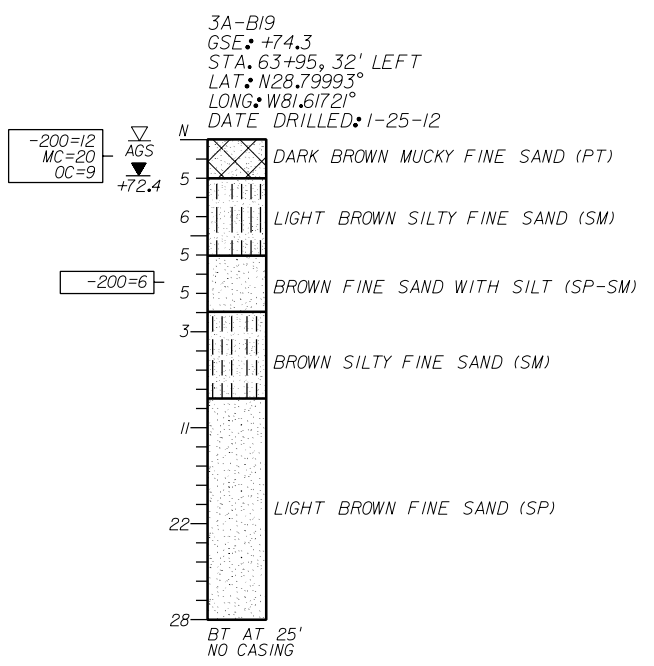
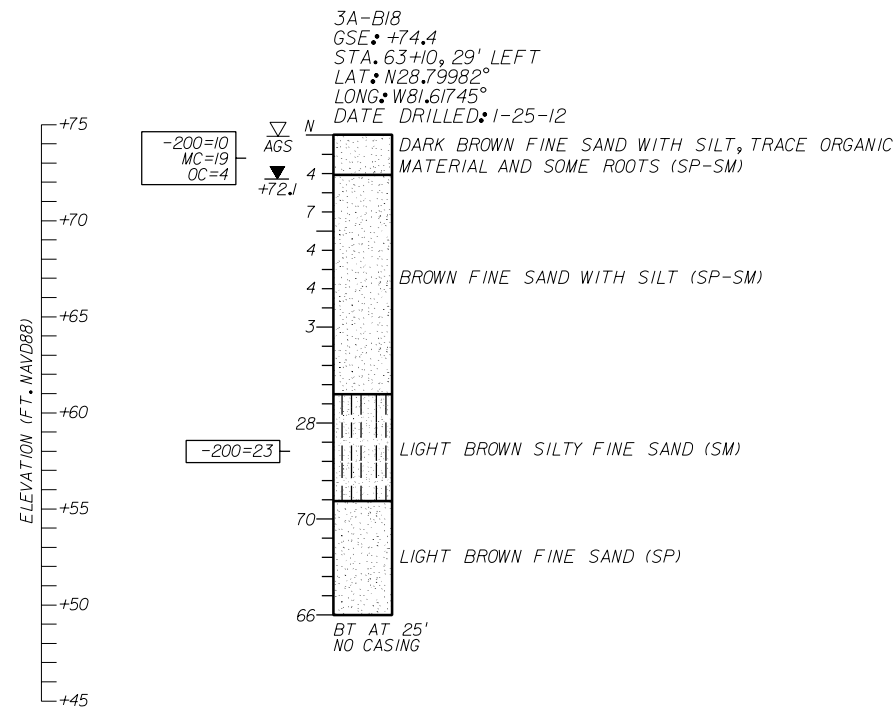
CORRELATION OF STANDARD PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL

GRANULAR SOILS	N VALUE (blows per foot)	RELATIVE DENSITY
SANDS	0-4	VERY LOOSE
	4-10	LOOSE
	10-30	MEDIUM DENSE
	30-50	DENSE
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NON-GRANULAR SOILS	N VALUE (blows per foot)	CONSISTENCY
SILTS, CLAYS, MUCK, PEAT	0-2	VERY SOFT
	2-4	SOFT
	4-8	FIRM
	8-15	STIFF
	15-30	VERY STIFF
	OVER 30	HARD

SECTION: 33  
 TOWNSHIP: 19 SOUTH  
 RANGE: 27 EAST

FIGURE 19

REVISIONS				<b>GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. (GEC)</b> 919 Lake Baldwin Lane Orlando, FL 32814 T 407-898-1818 F 407-898-1837 Certificate of Authorization No. 5882 <b>CRAIG G. BALLOCK PE NO. 71571</b>	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>ROADWAY SPT BORING RESULTS</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						46	LAKE		238275-2-52-02



**LEGEND**

▽ AGS ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL ABOVE EXISTING GROUND SURFACE  
 ▼ +72.4 ENCOUNTERED GROUNDWATER ELEVATION (FT. NAVD88) 24 HRS. AFTER DRILLING BORING  
 GSE GROUND SURFACE ELEVATION (FT. NAVD88)  
 N STANDARD PENETRATION RESISTANCE, BLOWS PER FOOT  
 (SP) UNIFIED SOIL CLASSIFICATION SYMBOL  
 BT BORING TERMINATED AT SPECIFIED DEPTH (FEET) INDICATED  
 -200= PERCENT PASSING NO. 200 U.S. STANDARD SIEVE (FM I-T 088)  
 MC= PERCENT NATURAL MOISTURE CONTENT (FM I-T 265)  
 LL= LIQUID LIMIT (FM I-T 089)  
 PI= PLASTICITY INDEX (FM I-T 090)  
 OC= PERCENT ORGANIC CONTENT (FM I-T 267)

**SOILS LEGEND**

SAND SAND AND MUCK  
 SAND AND SILT ORGANIC SILT

**GENERAL NOTES**

STANDARD PENETRATION TEST BORINGS WERE PERFORMED IN ACCORDANCE WITH ASTM D-1586. STANDARD PENETRATION RESISTANCES ARE SHOWN ON THE BORINGS AT THE TEST DEPTHS IN BLOWS PER FOOT UNLESS OTHERWISE NOTED.

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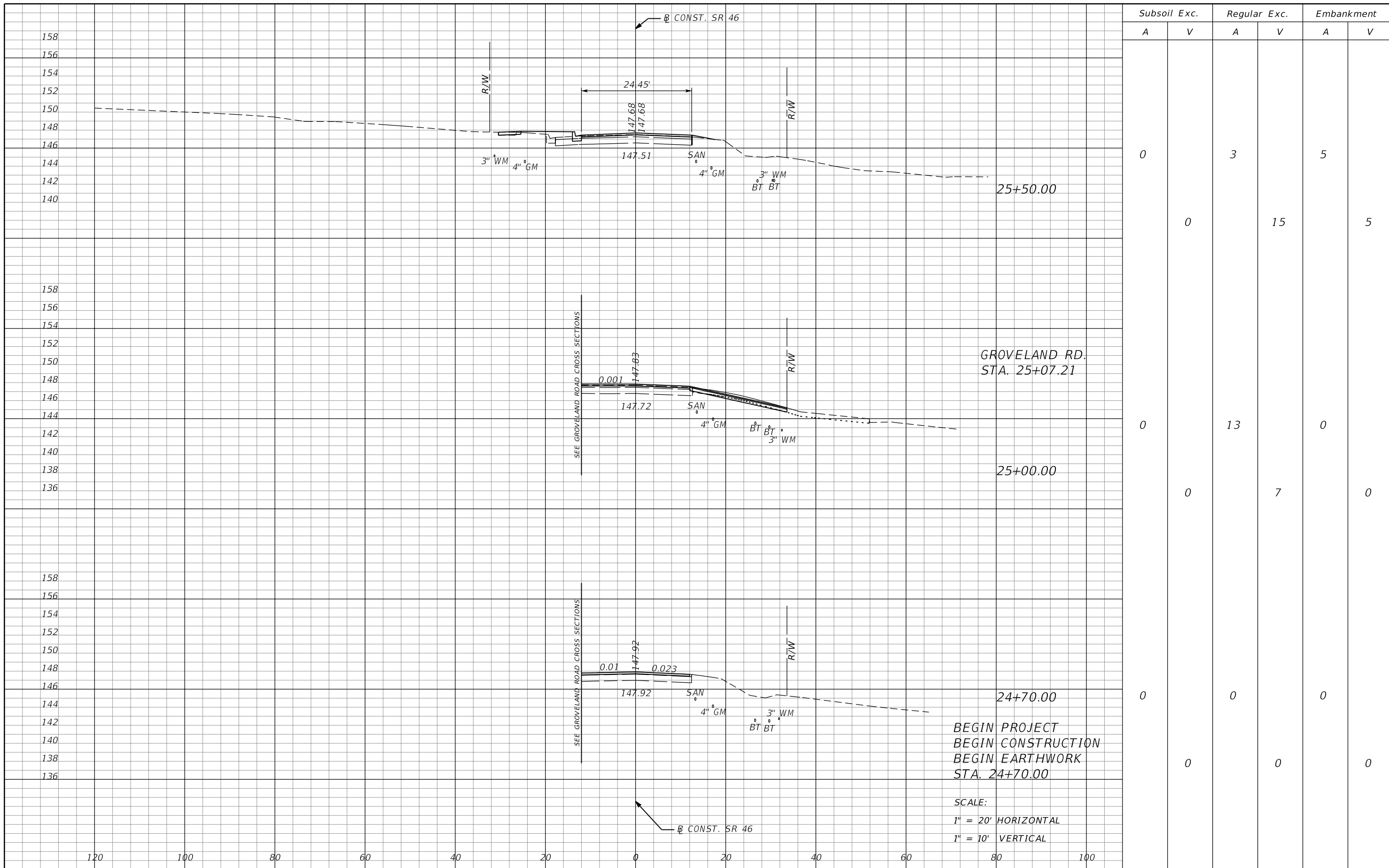
CORRELATION OF STANDARD PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL

GRANULAR SOILS	N VALUE (blows per foot)	RELATIVE DENSITY
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	4-10	LOOSE
	10-30	MEDIUM DENSE
	30-50	DENSE
	OVER 50	VERY DENSE
NON-GRANULAR SOILS	N VALUE (blows per foot)	CONSISTENCY
SILTS, CLAYS, MUCK, PEAT	0-2	VERY SOFT
	2-4	SOFT
	4-8	FIRM
	8-15	STIFF
	15-30	VERY STIFF
	OVER 30	HARD

SECTION: 33 (3A-B18 & 3A-B19) / 28 (3A-B20 & 3A-B21)  
 TOWNSHIP: 19 SOUTH  
 RANGE: 27 EAST

FIGURE 20

REVISIONS				<b>GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. (GEC)</b> 919 Lake Baldwin Lane Orlando, FL 32814 T 407-898-1818 F 407-898-1837 Certificate of Authorization No. 5882 <b>CRAIG G. BALLOCK PE NO. 71571</b>	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>ROADWAY SPT BORING RESULTS</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						46	LAKE		238275-2-52-02



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		3		5	
	0		15		5
0		13		0	
	0		7		0
0		0		0	
	0		0		0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

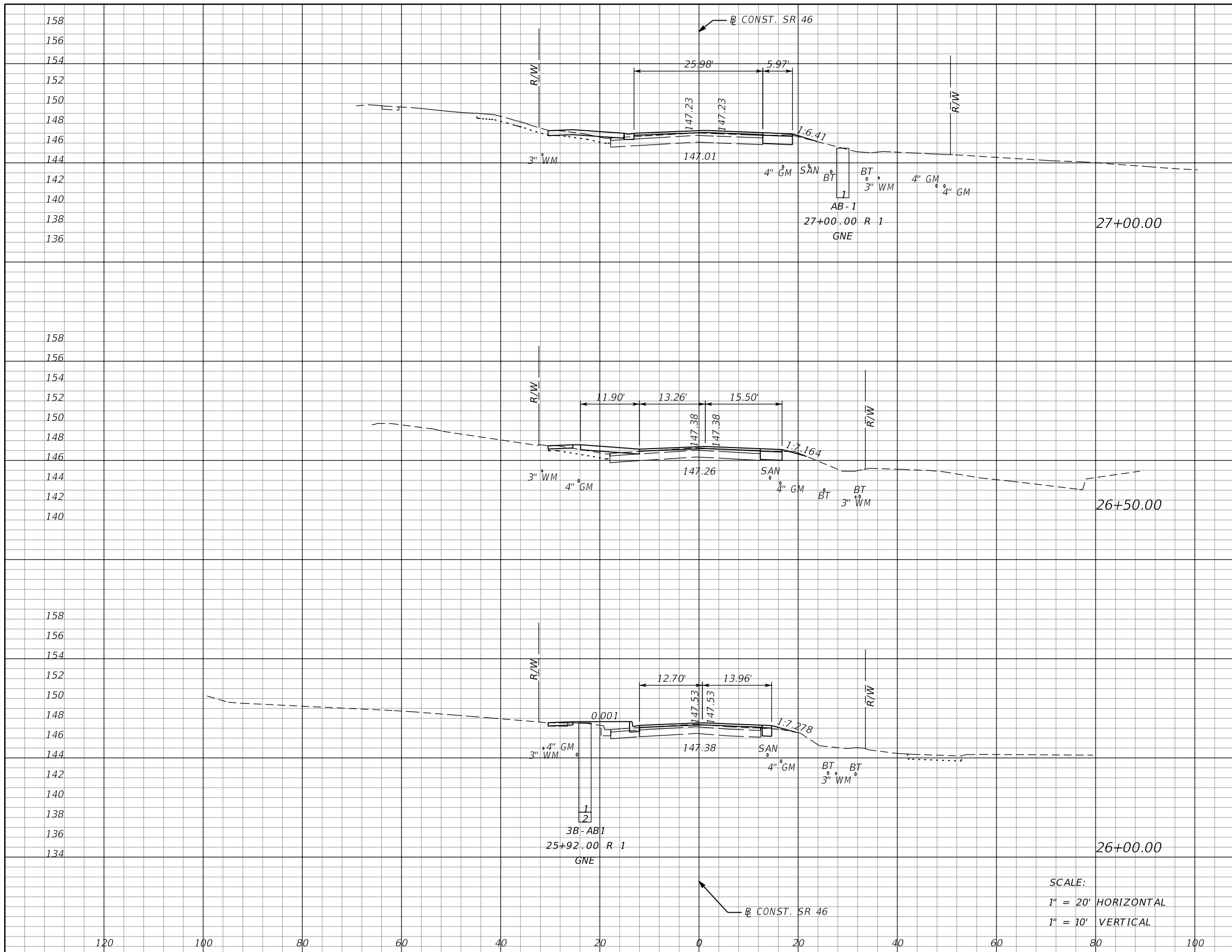
STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**196**

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		9		1	
	0		14		3
0		6		2	
	0		9		7
0		4		6	
	0		6		10

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

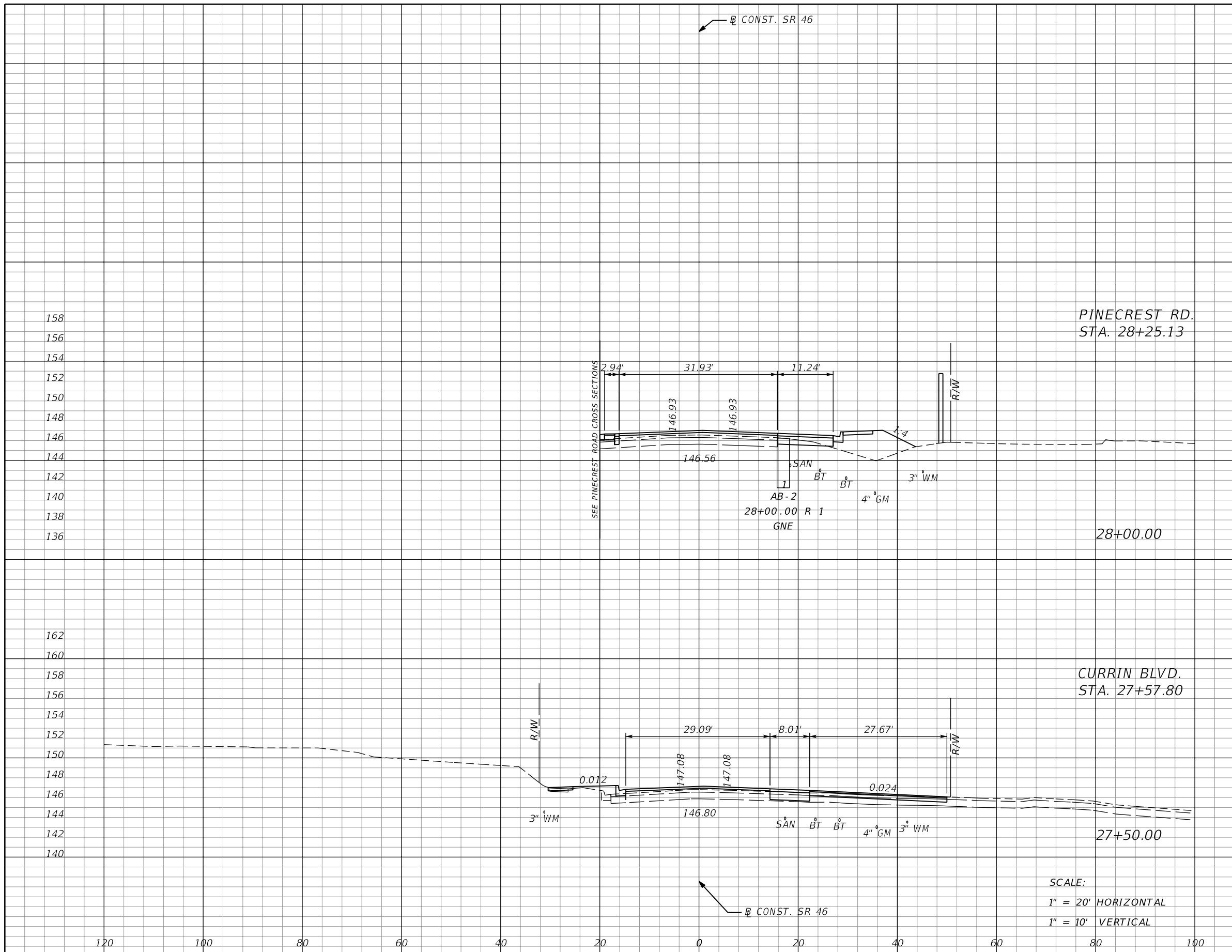
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 FL REGISTRATION NO. 57539

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**197**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	5	22	29	31
0	0	19	26	4	5

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
 1025 GREENWOOD BLVD., STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

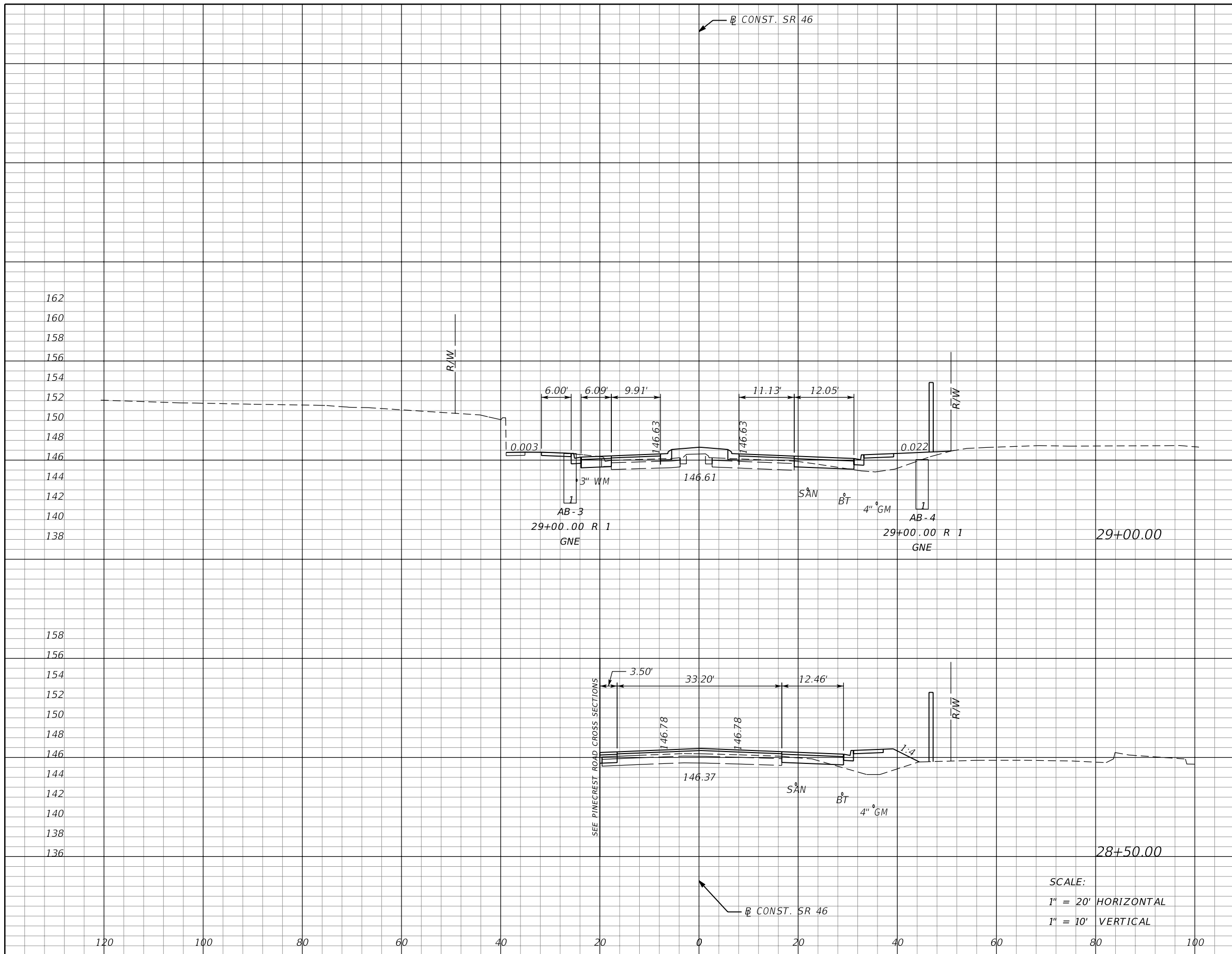
ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**198**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		14		27	
	0		19		48
0		6		25	
	0		10		50

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

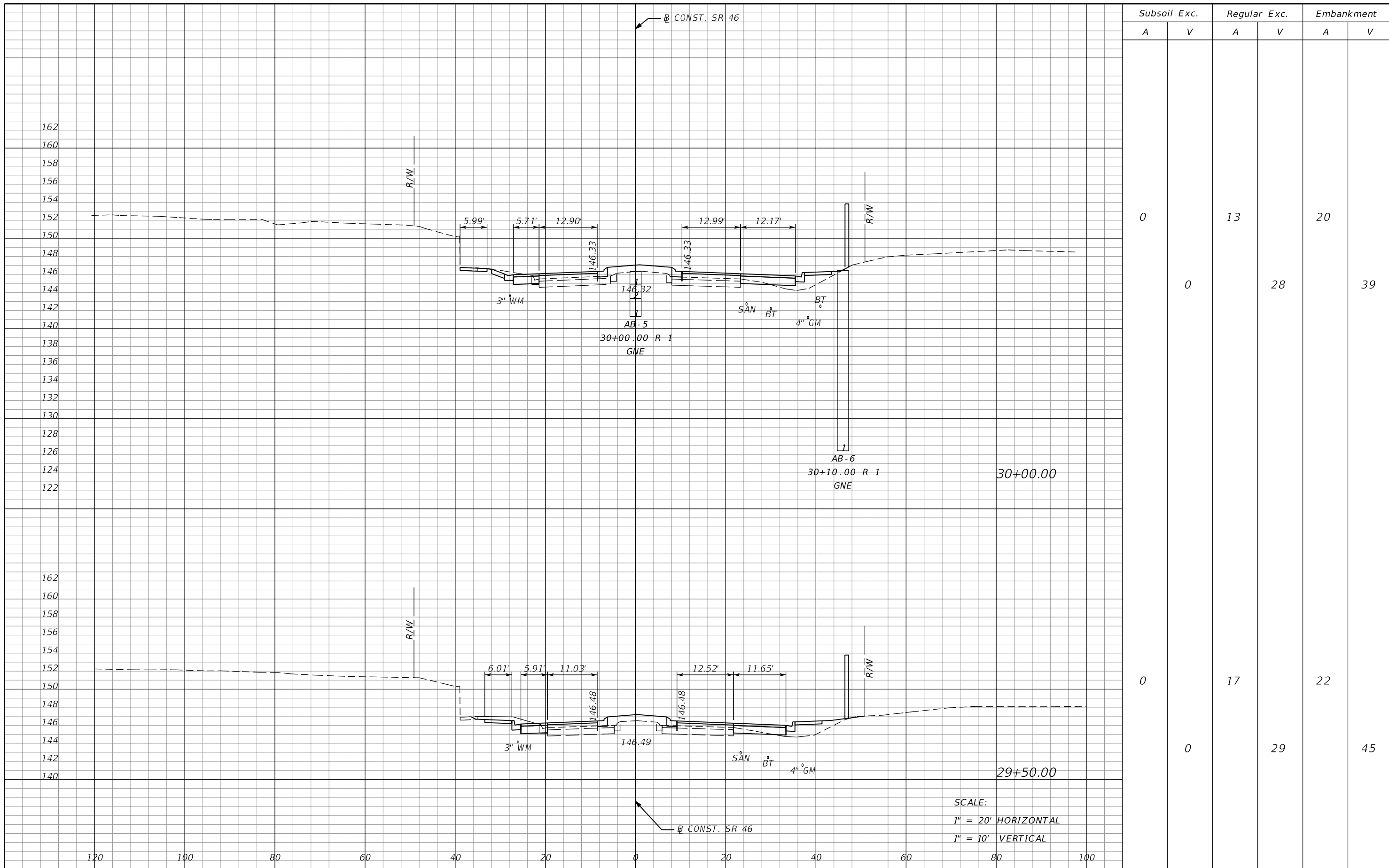
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

**CROSS SECTIONS**  
**SR 46**

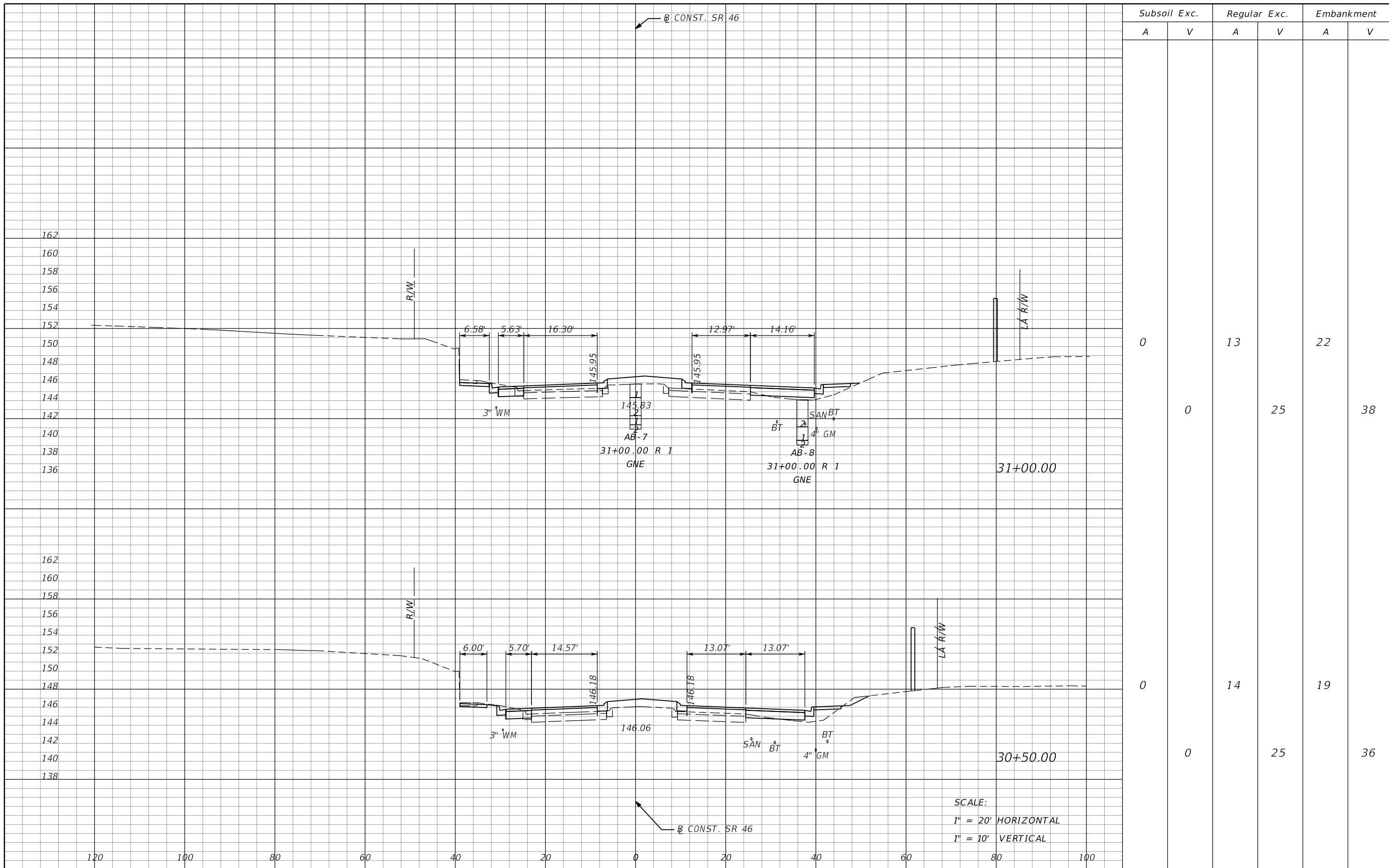
SHEET NO.  
**199**





Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		13		20	
	0		28		39
0		17		22	
	0		29		45

<b>REVISIONS</b> DATE DESCRIPTION DATE DESCRIPTION				MOFFATT & NICHOL 1025 GREENWOOD BLVD, STE 371 LAKE MARY, FL 32746 PHONE (407) 562-2030 CERT. OF AUTH. NO. 4877			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS</b> <b>SR 46</b>		SHEET NO.
				ENGINEER OF RECORD: JEFFREY A. MESSENGER, P.E. FL REGISTRATION NO. 57539			ROAD NO.	COUNTY	FINANCIAL PROJECT ID			200
				46			LAKE	238275-2-52-01				



SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

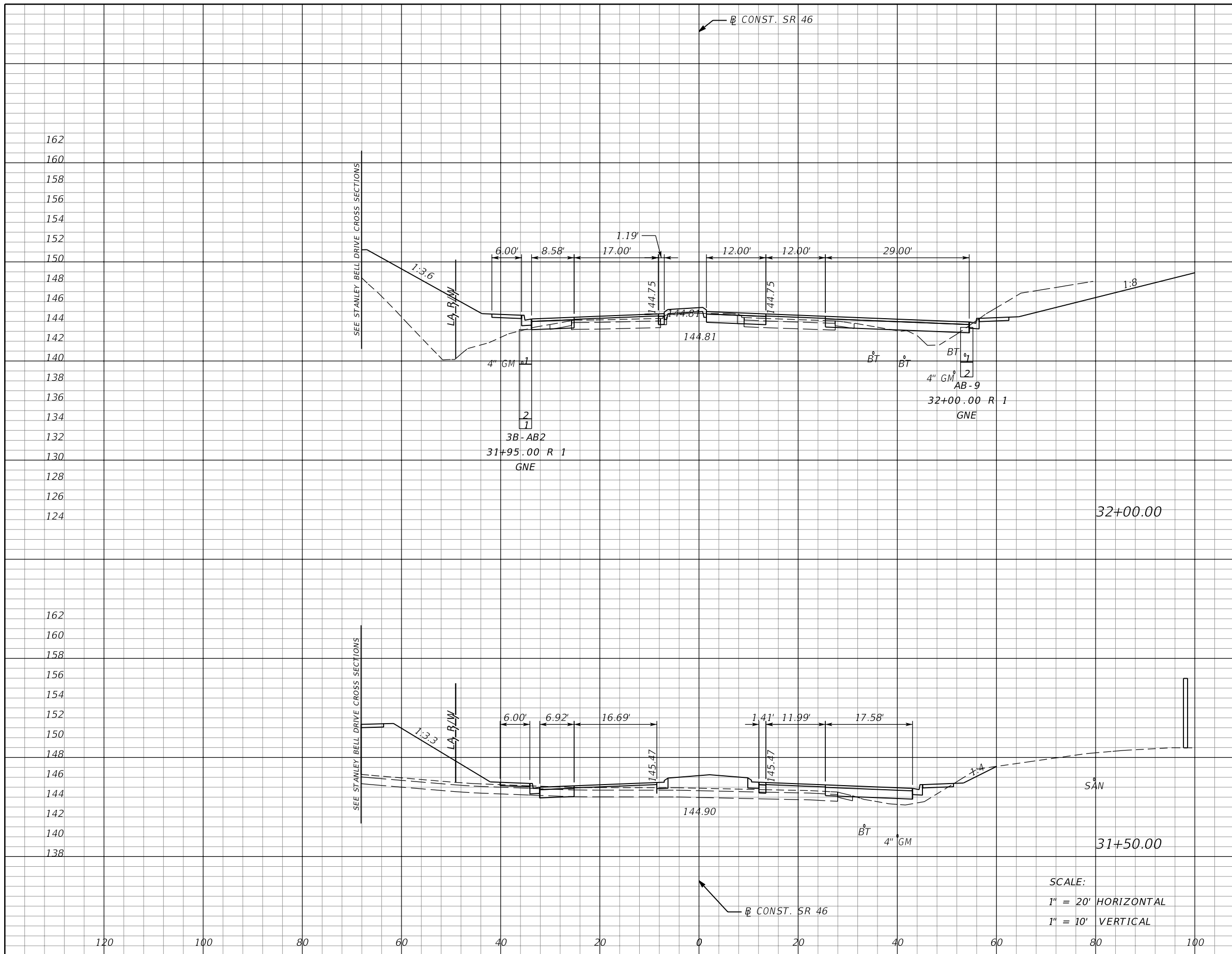
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**201**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		88		147	
	0		96		247
0		16		120	
	0		27		131

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

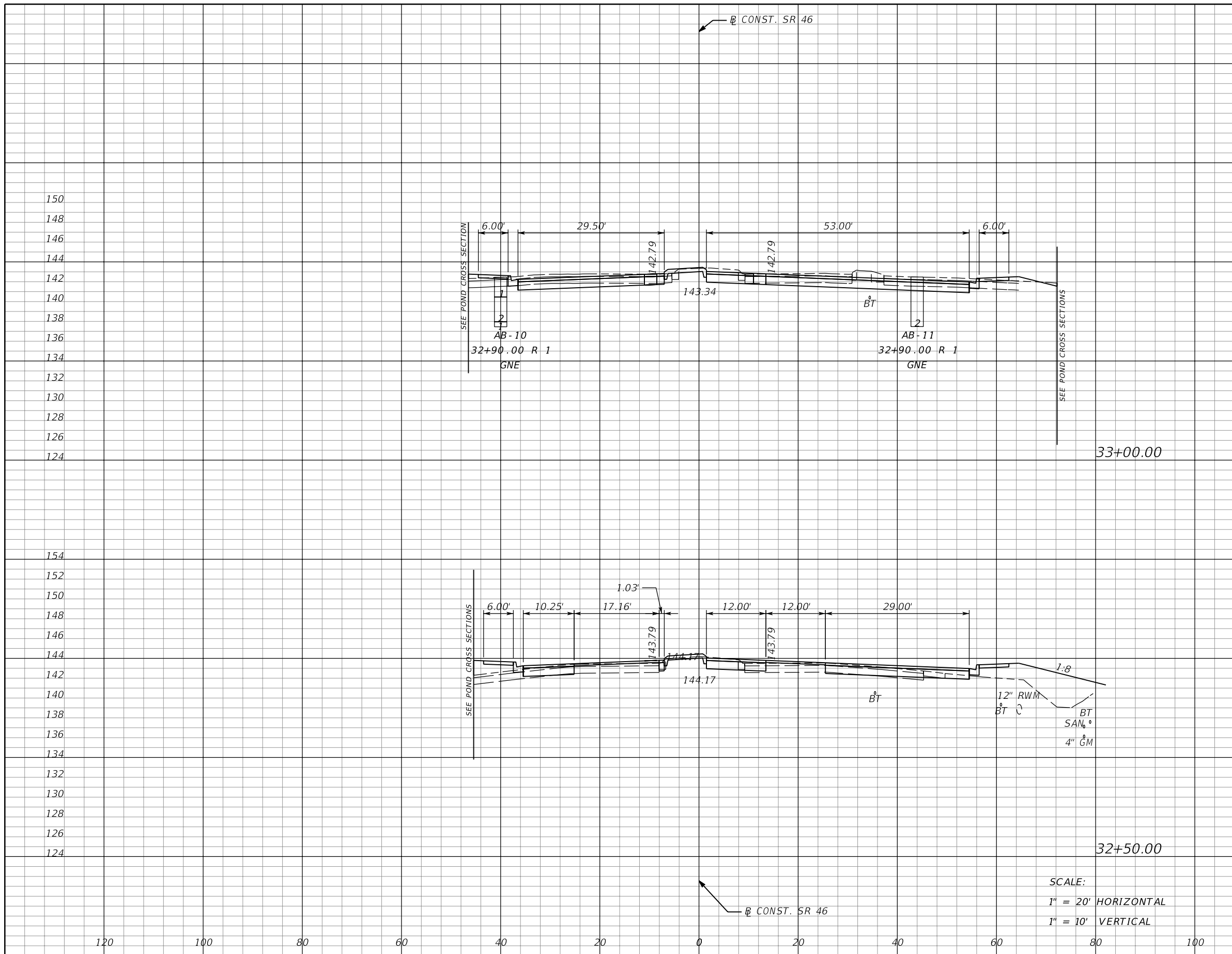
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**202**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		119		3	
	0		153		55
0		46		56	
	0		124		188

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

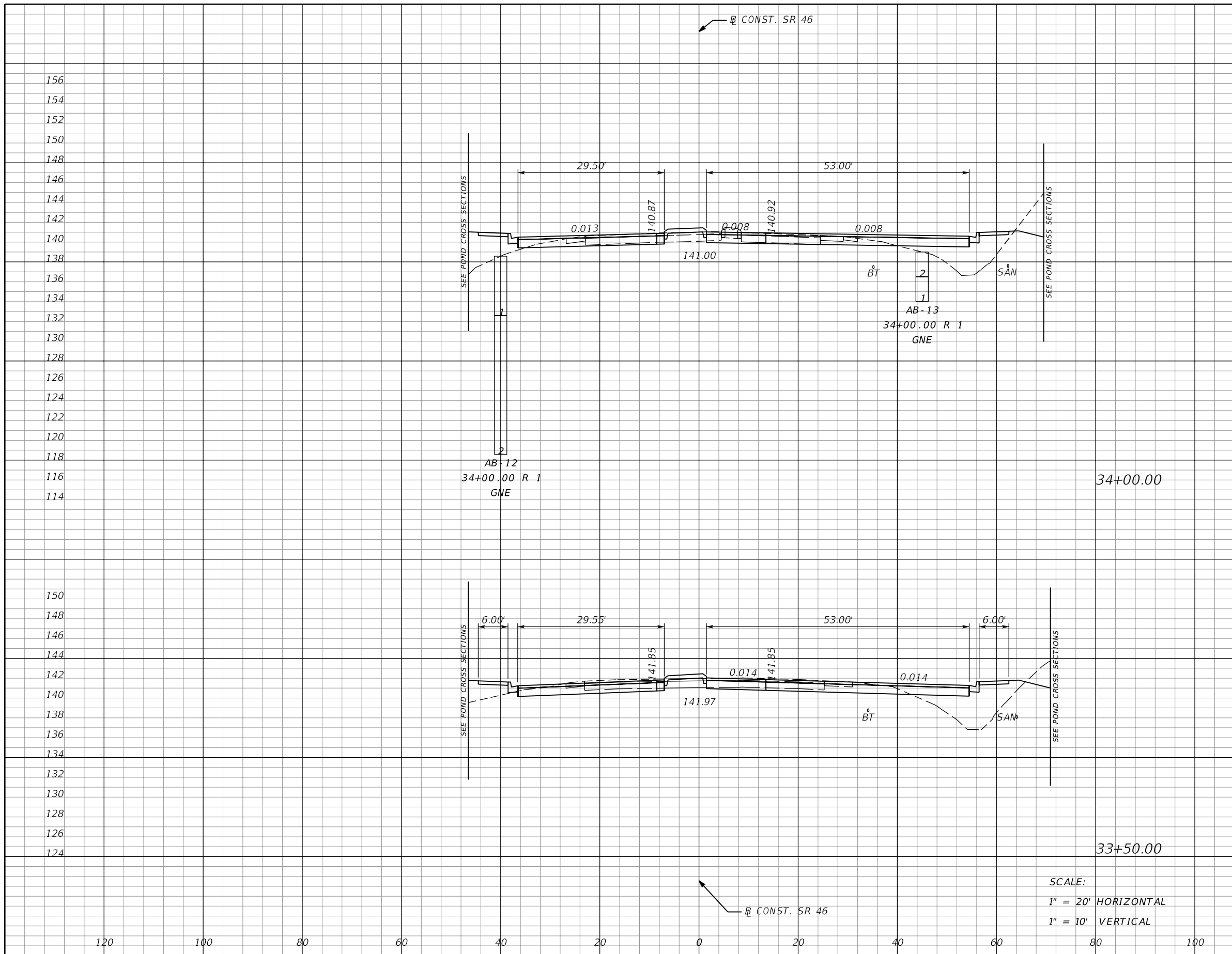
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 CERT. OF AUTH. NO. 4877

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**203**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		73		61	
	0		144		111
0		83		59	
	0		187		57

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

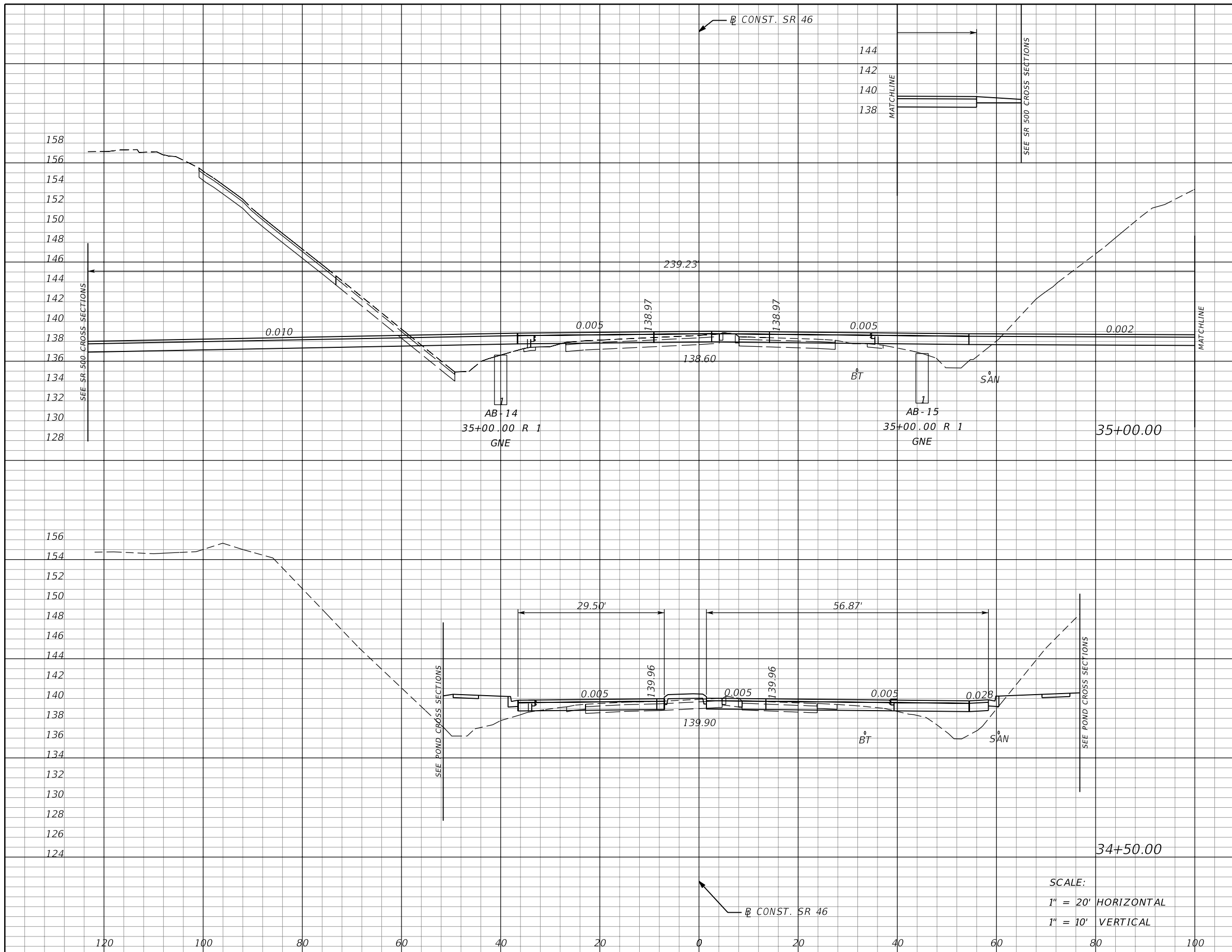
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**204**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		1712		60	
	0		1682		124
0		105		74	
	0		165		125

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

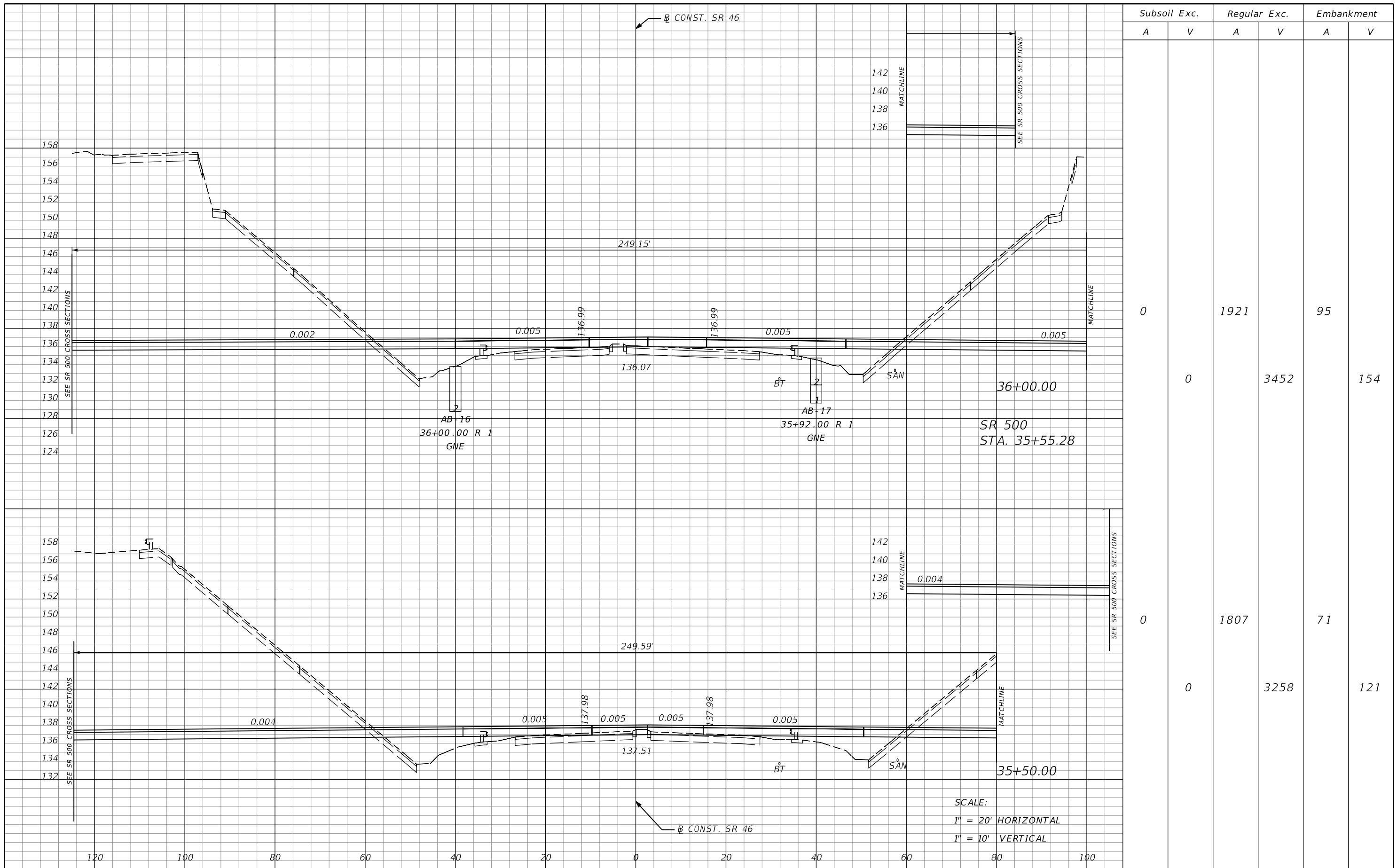
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**205**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		1921		95	
0		3452		154	
0		1807		71	
0		3258		121	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

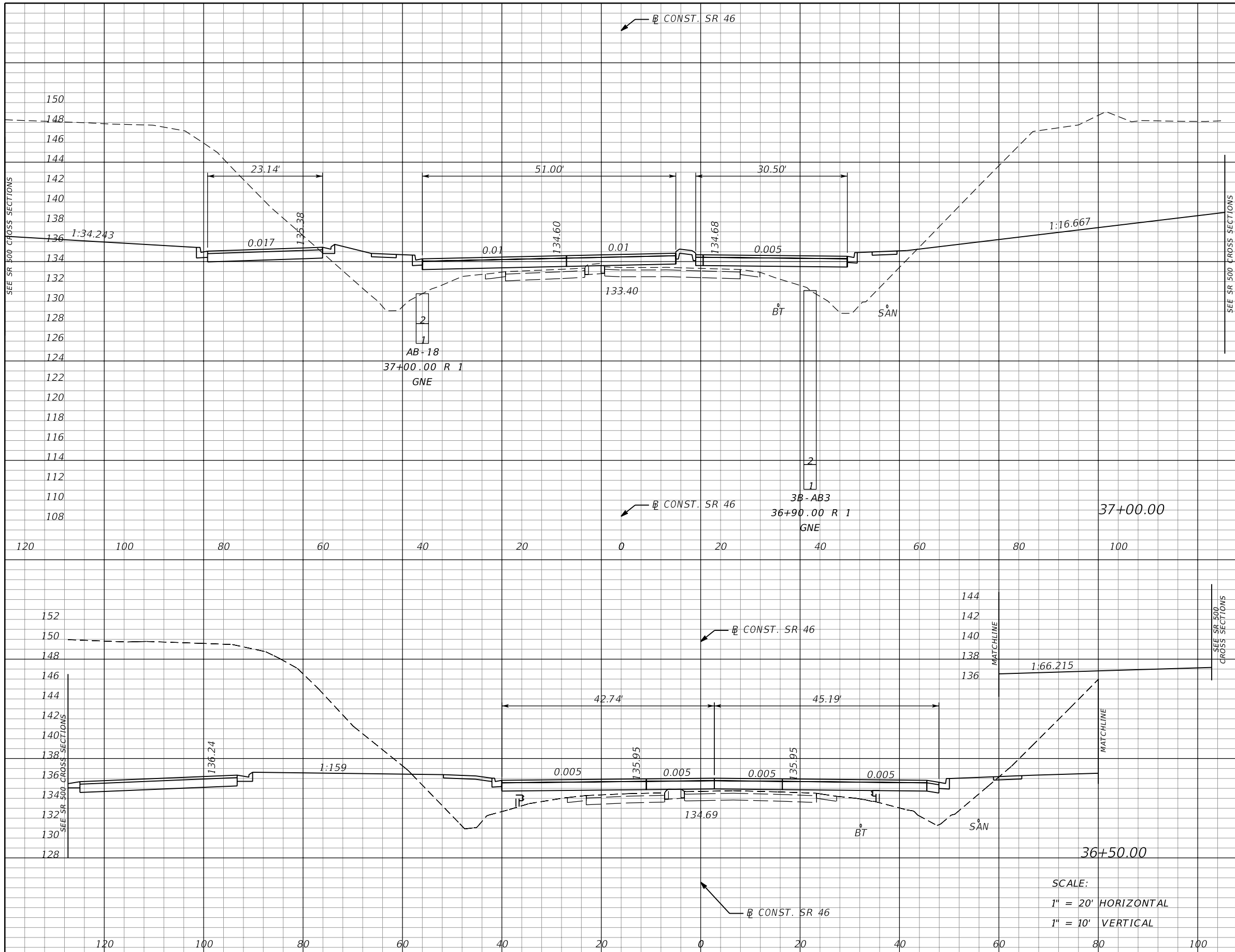
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**206**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		1153		192	
	0		2348		317
0		1383		150	
	0		3059		227

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

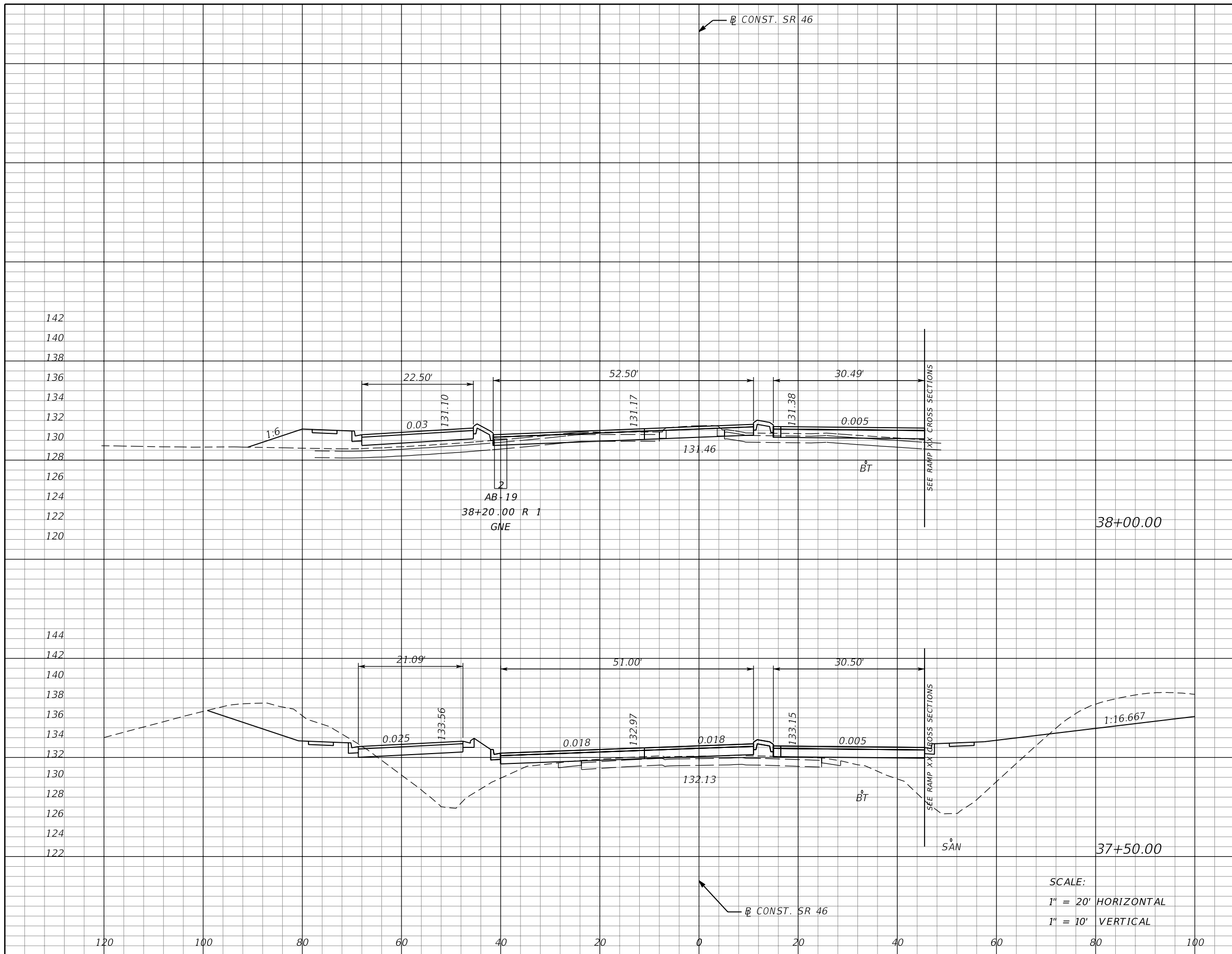
STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**207**





Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		51		43	
0		187		262	
0		151		240	
0		1207		400	

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

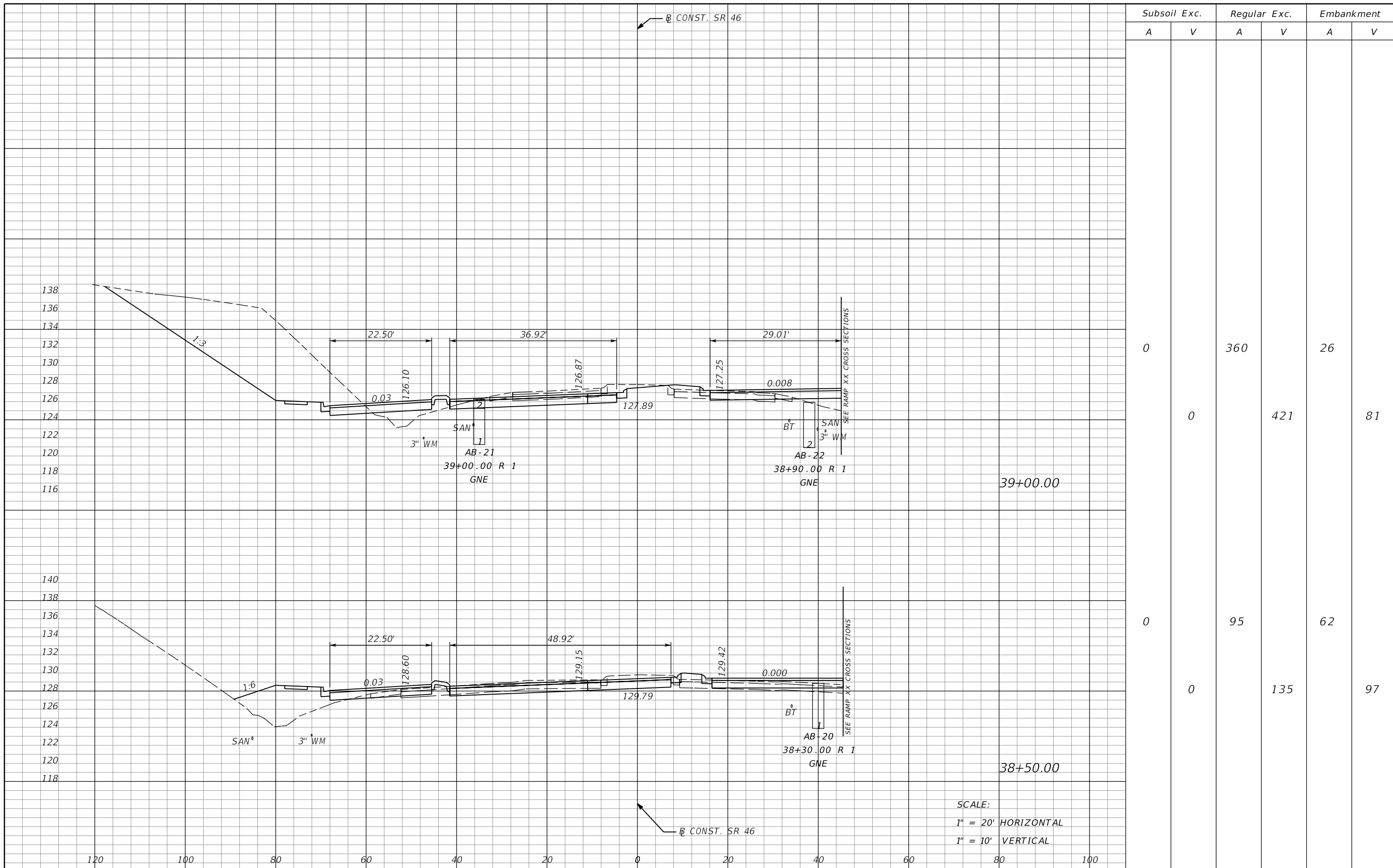
ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**208**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	360	421	26	81
0	0	95	135	62	97

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

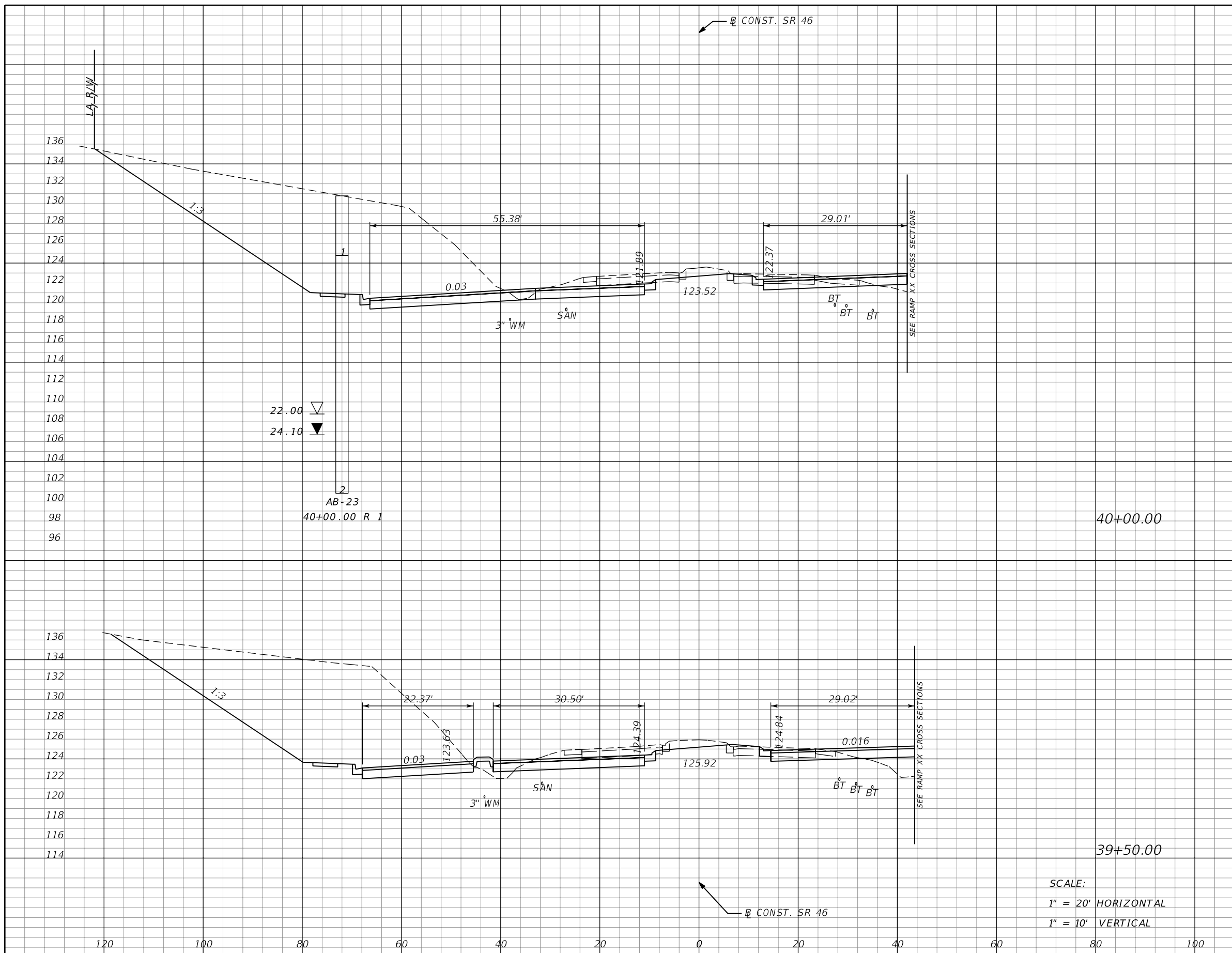
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
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STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**209**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		613		2	
	0		1074		18
0		547		17	
	0		840		40

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

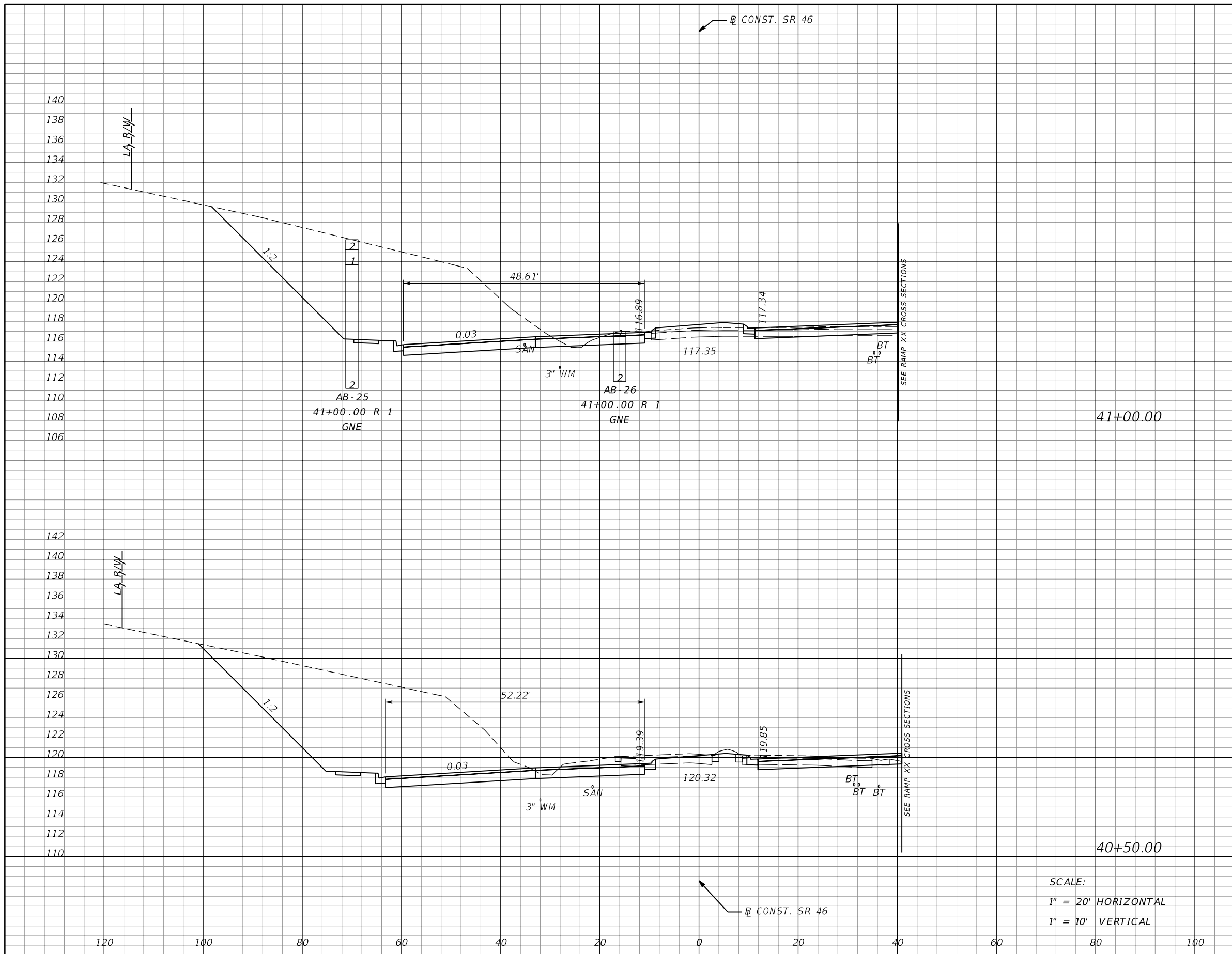
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
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 CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**210**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		495		7	
	0		937		6
0		517		0	
	0		1046		2

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

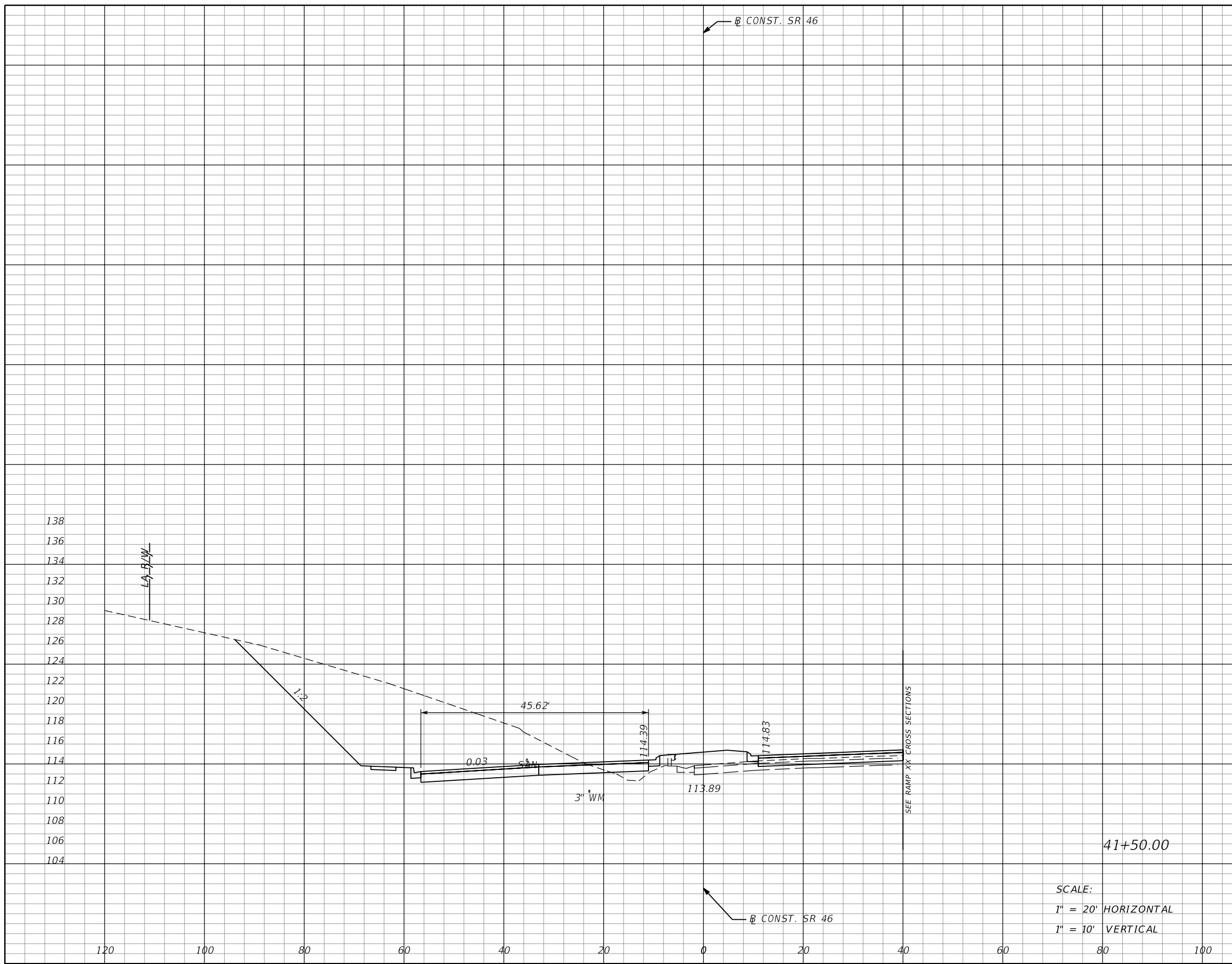
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
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STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

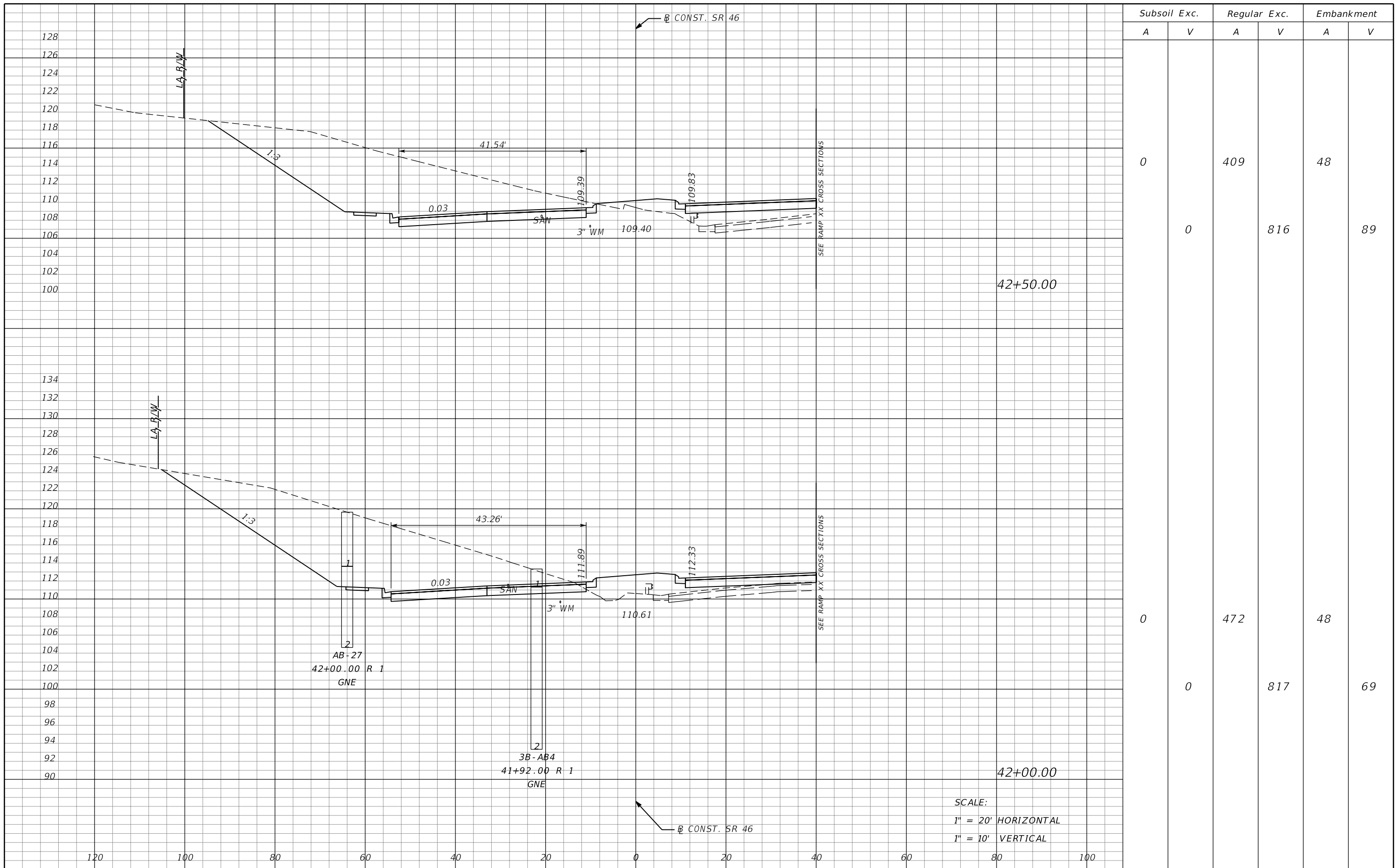
**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**211**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		410		27	
	0		838		31

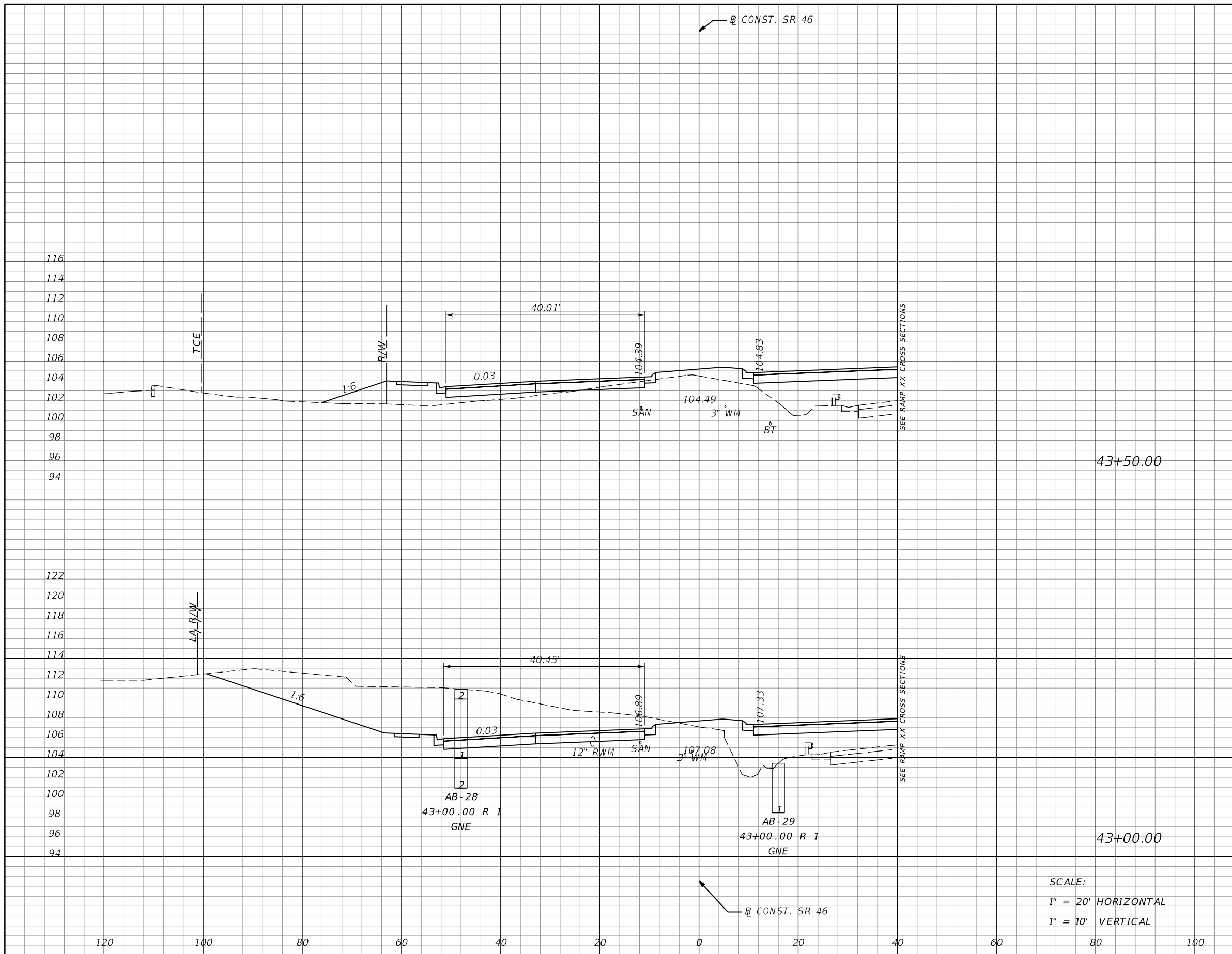
REVISIONS				MOFFATT & NICHOL 1025 GREENWOOD BLVD, STE 371 LAKE MARY, FL 32746 PHONE (407) 562-2030 CERT. OF AUTH. NO. 4877	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS</b> <b>SR 46</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		212
				46	LAKE	238275-2-52-01			



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		409		48	
	0		816		89
42+50.00					
0		472		48	
	0		817		69
42+00.00					

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS				MOFFATT & NICHOL 1025 GREENWOOD BLVD, STE 371 LAKE MARY, FL 32746 PHONE (407) 562-2030 CERT. OF AUTH. NO. 4877	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS</b> <b>SR 46</b>	SHEET NO. <b>213</b>
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				ENGINEER OF RECORD: JEFFREY A. MESSENGER, P.E. FL REGISTRATION NO. 57539	46	LAKE	238275-2-52-01		



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		5		138	
	0		315		216
0		335		95	
	0		689		132

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

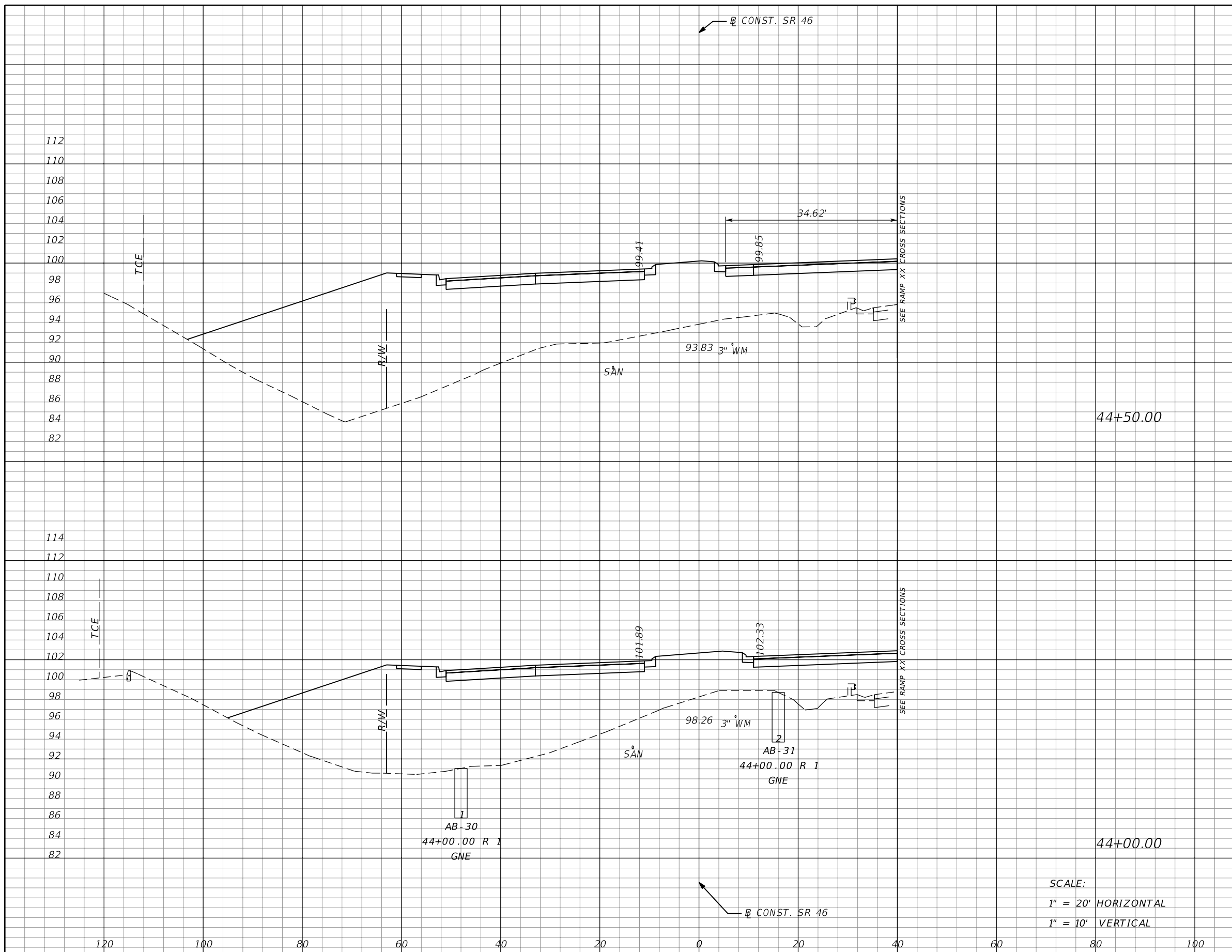
MOFFATT & NICHOL  
1025 GREENWOOD BLVD, STE 371  
LAKE MARY, FL 32746  
PHONE (407) 562-2030  
CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
JEFFREY A. MESSENGER, P.E.  
FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**214**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	1015	1691
0	0	0	5	811	879

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

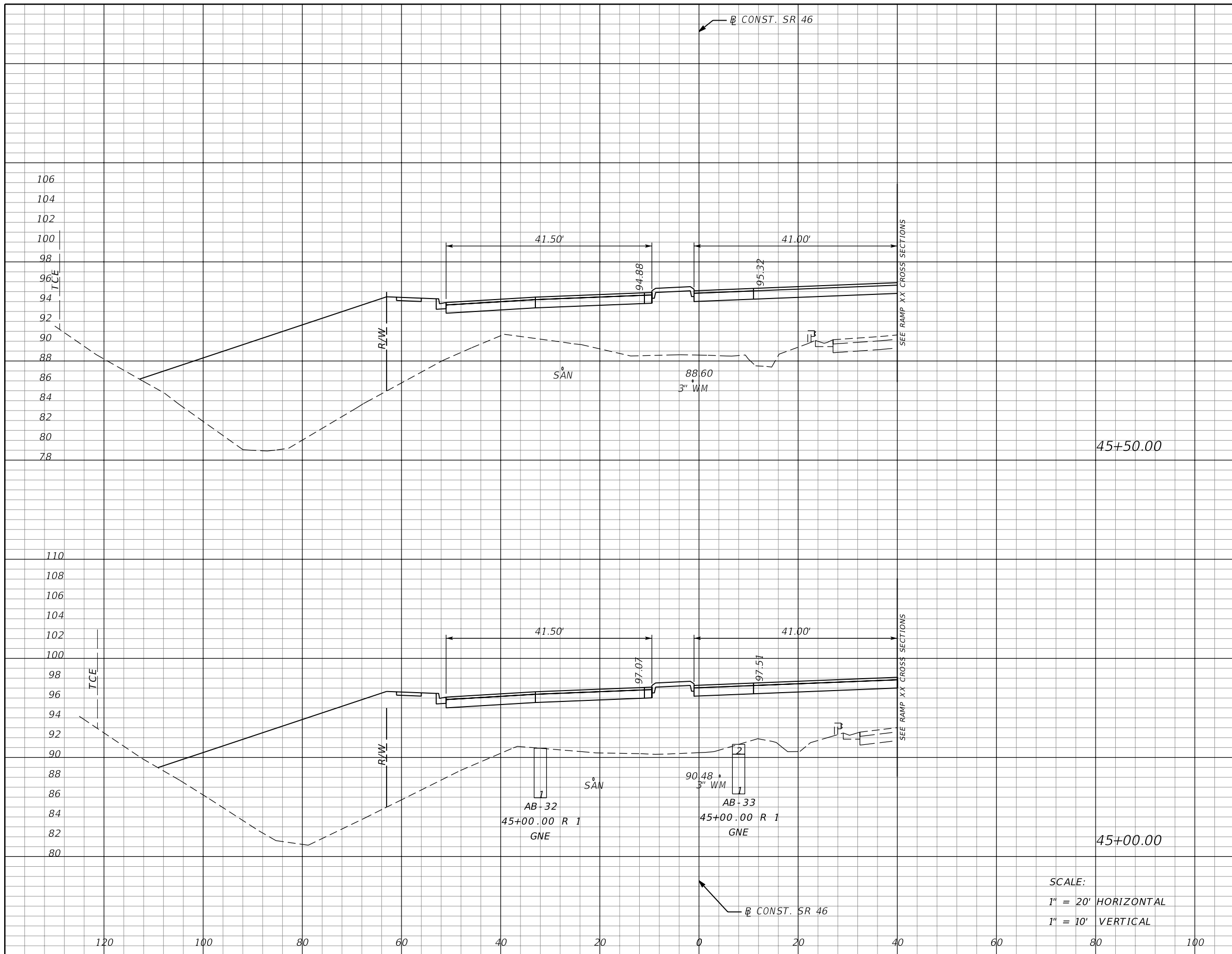
ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**215**





Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		0		938	
	0		0		1798
0		0		1004	
	0		0		1869

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

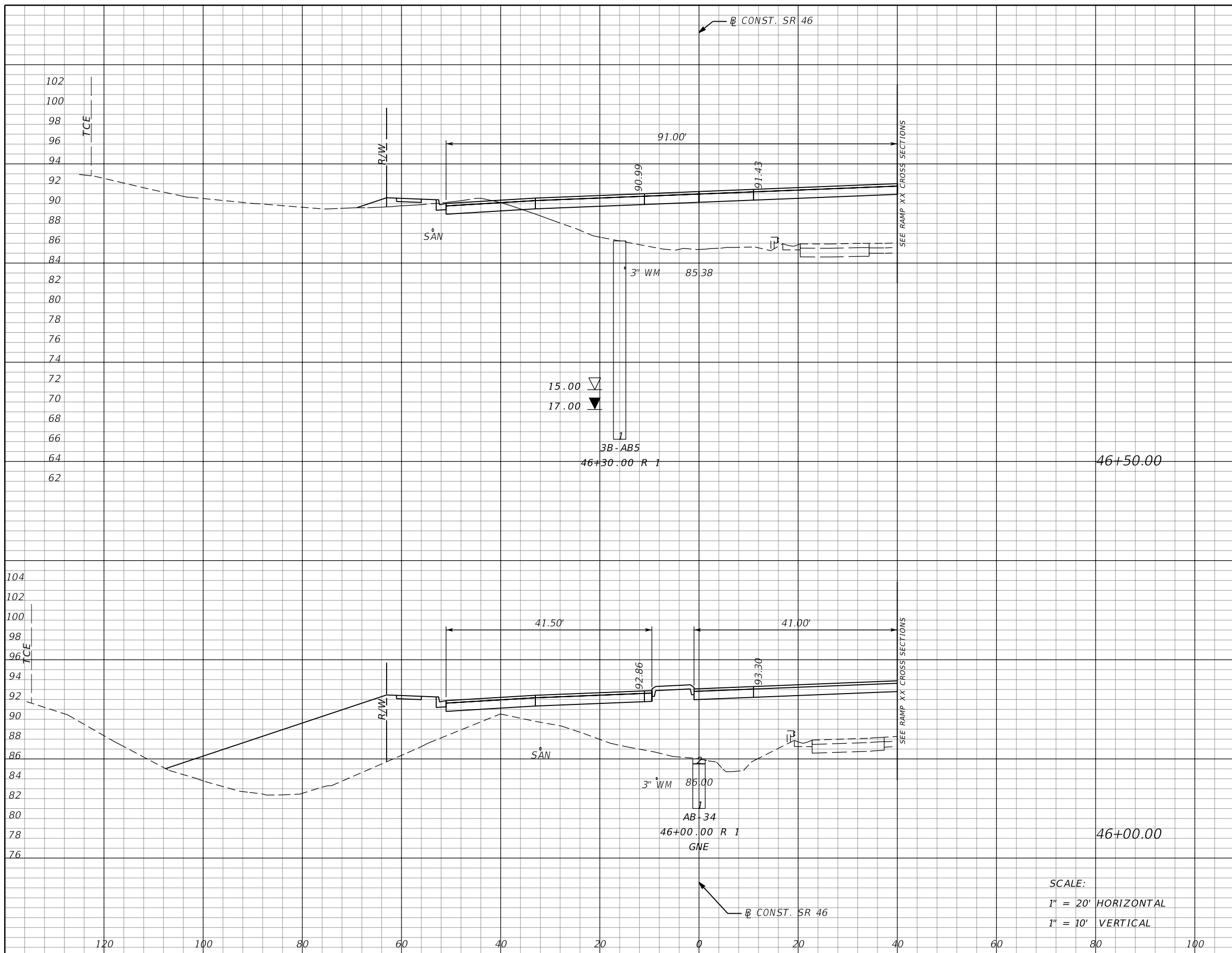
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**216**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		17		311	
	0		16		913
0		0		675	
	0		0		1494

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

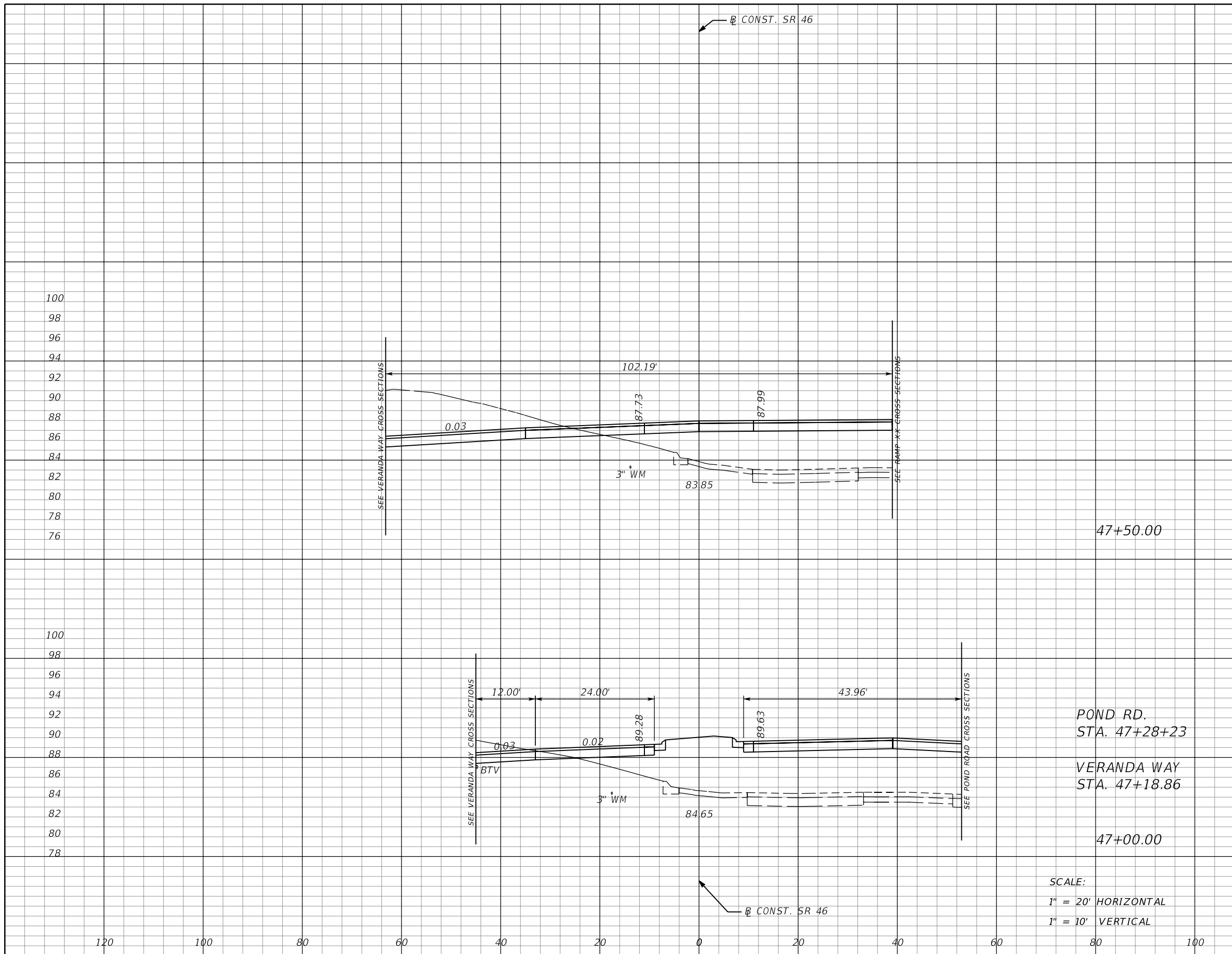
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**217**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		141		179	
	0		178		456
0		51		313	
	0		63		578

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

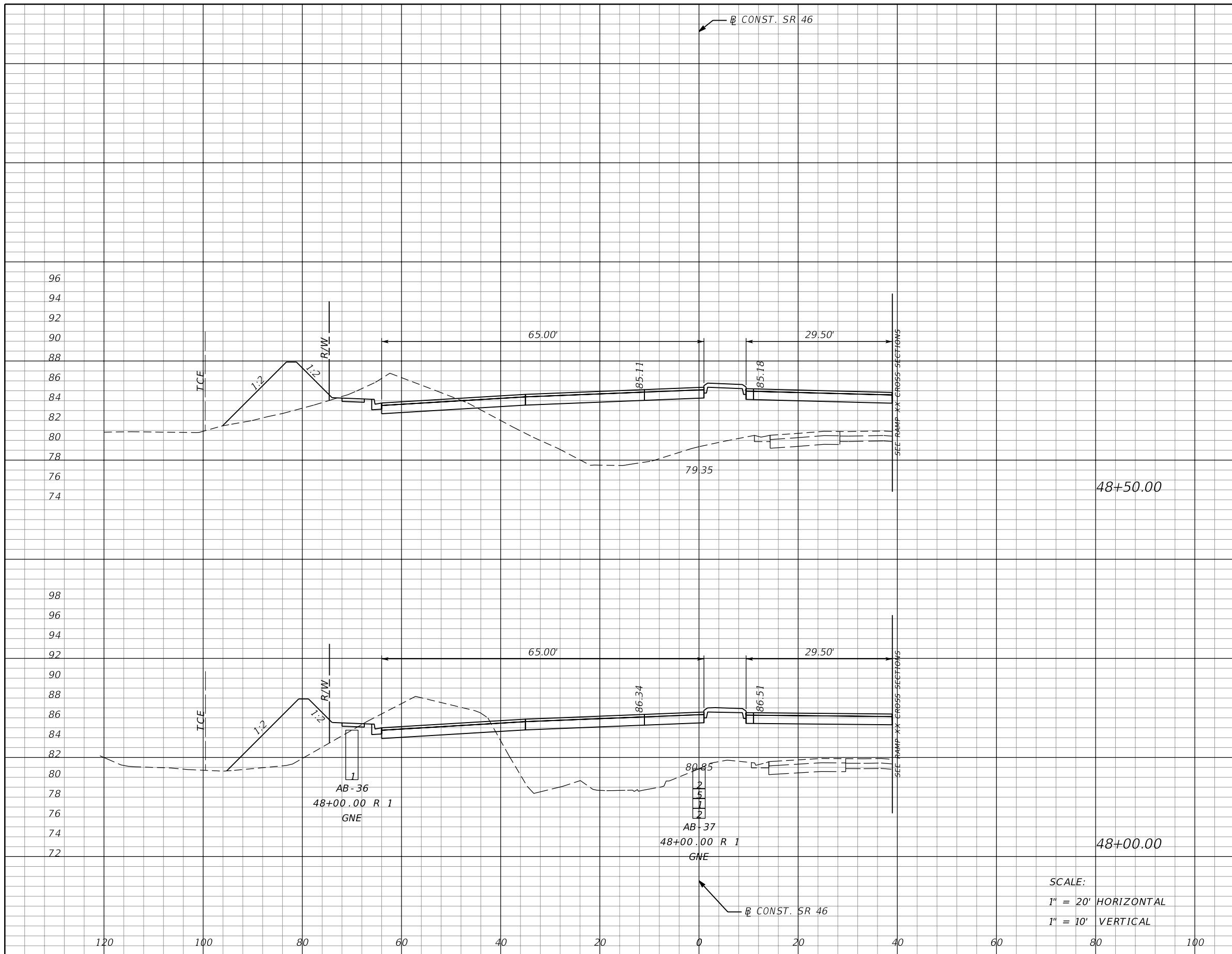
STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**218**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		55		421	
0		116		826	
0		70		471	
0		195		602	

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

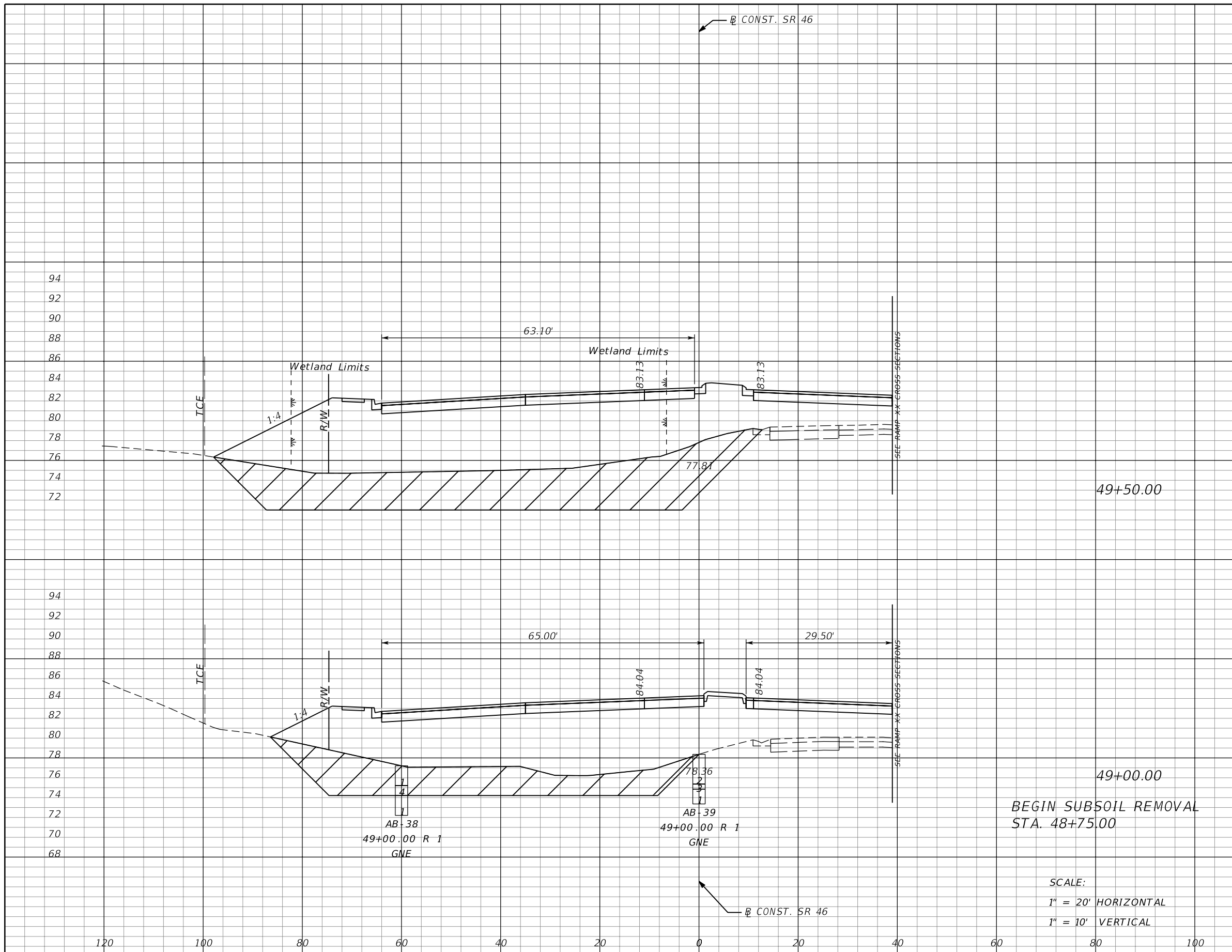
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**219**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
432		0		1115	
	611	0			1767
228		0		793	
	211	51			1124

BEGIN SUBSOIL REMOVAL STA. 48+75.00

SCALE:  
1" = 20' HORIZONTAL  
1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
1025 GREENWOOD BLVD, STE 371  
LAKE MARY, FL 32746  
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CERT. OF AUTH. NO. 4877

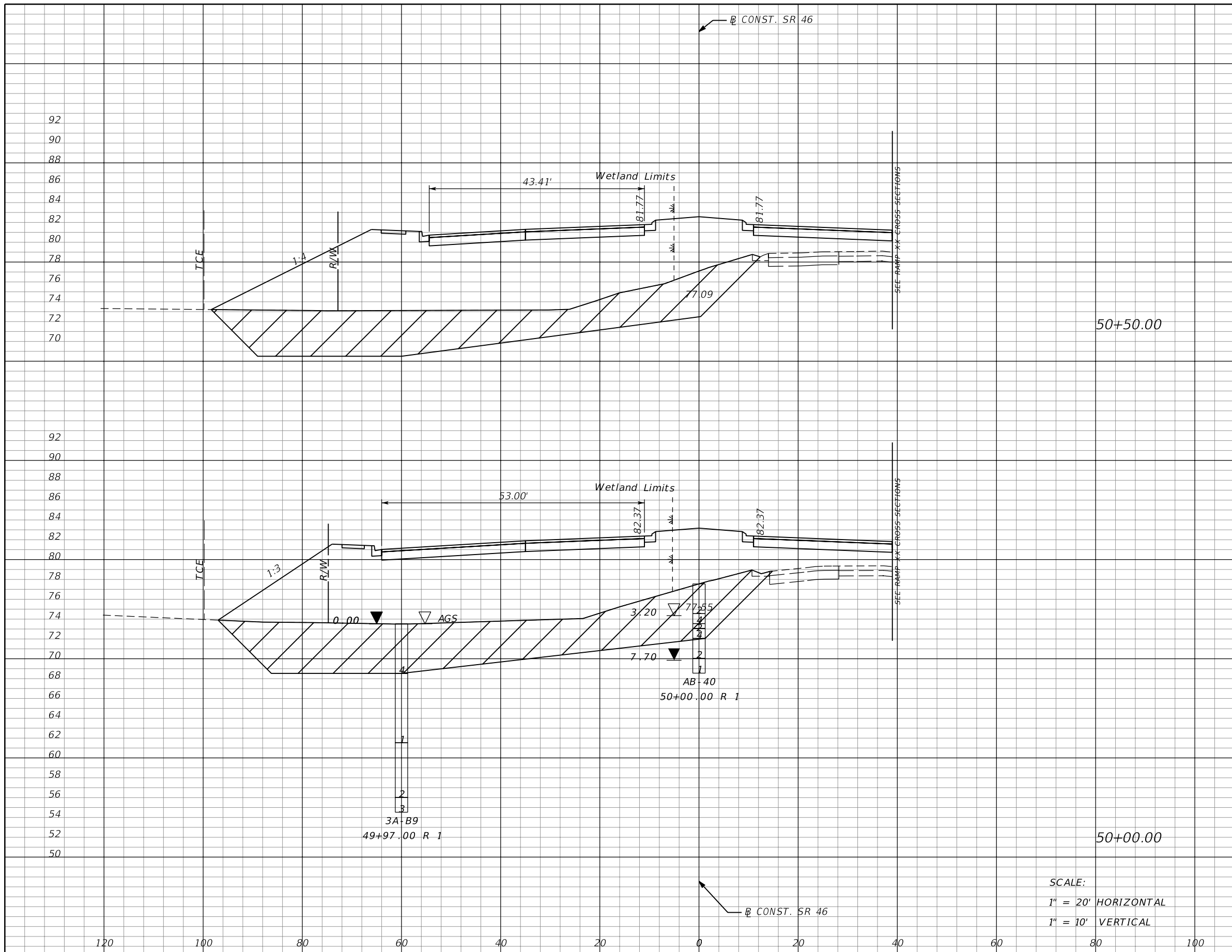
ENGINEER OF RECORD:  
JEFFREY A. MESSENGER, P.E.  
FL REGISTRATION NO. 57539

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**220**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
399		0		1073	
	803		0		2072
468		0		1165	
	833		0		2111

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

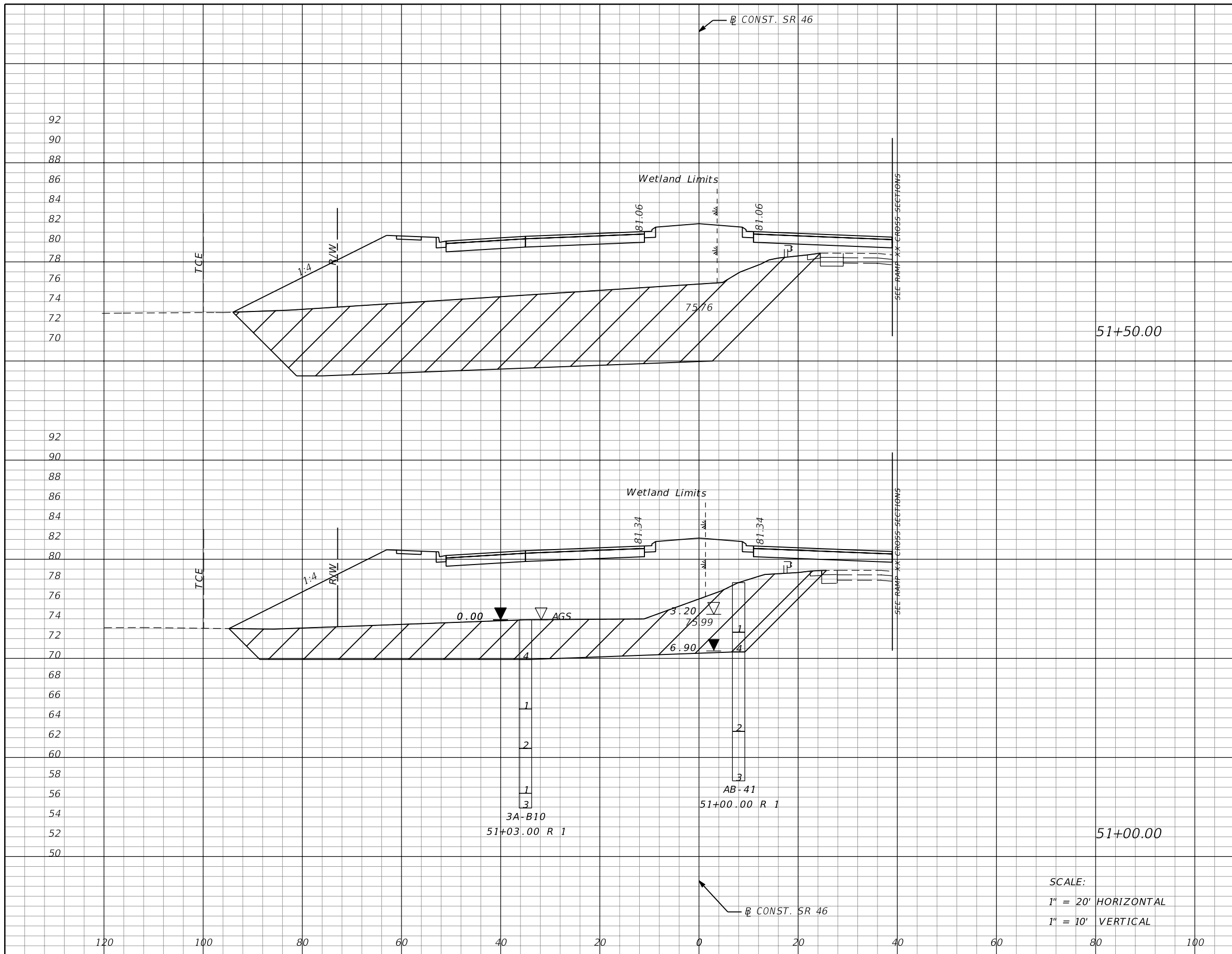
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
 221



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
748		0		1283	
	1119		0		2185
460		0		1077	
	795		0		1991

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

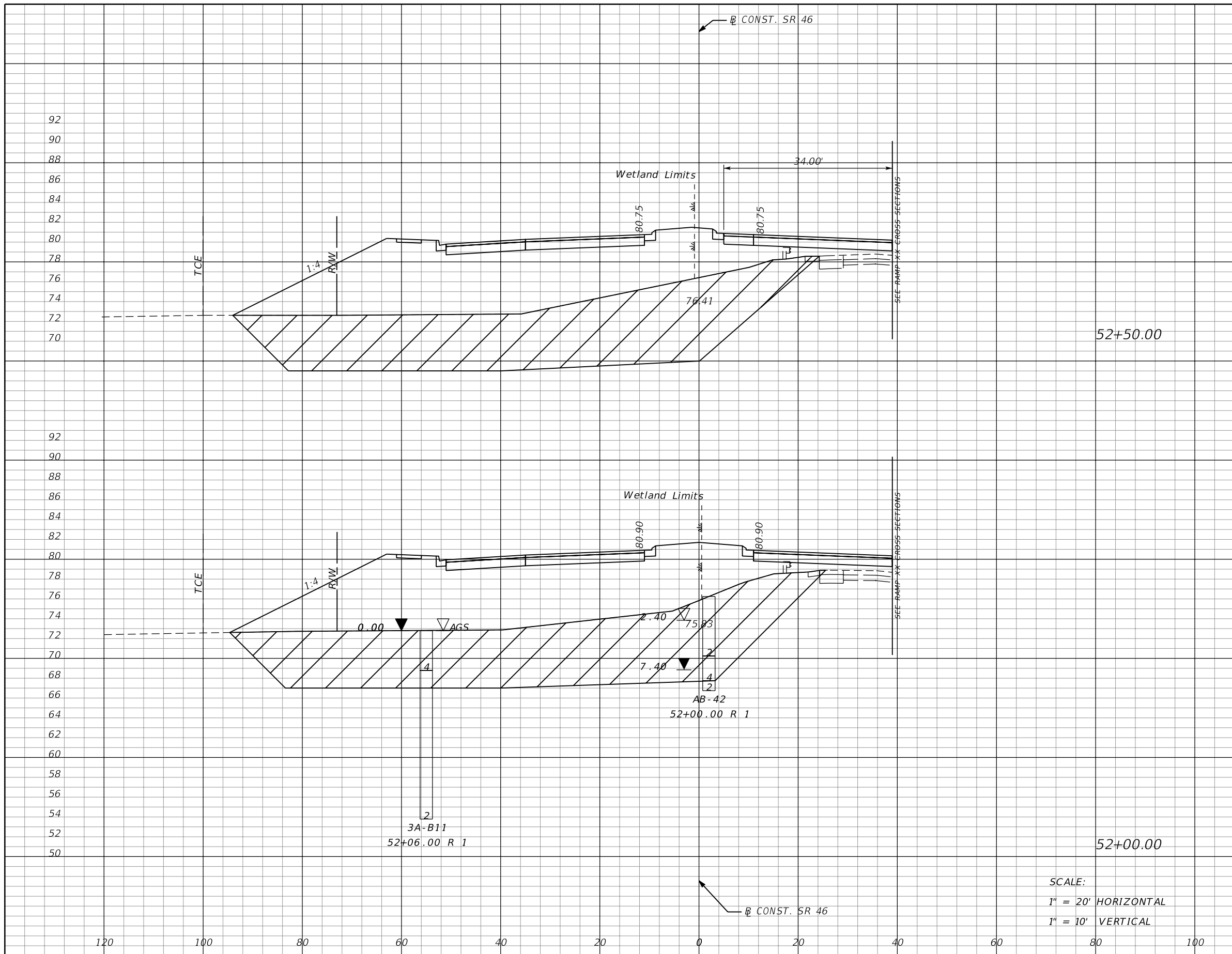
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
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 PHONE (407) 562-2030  
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
 222



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
656		0		1221	
	1241		0		2318
684		0		1282	
	1326		0		2375

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
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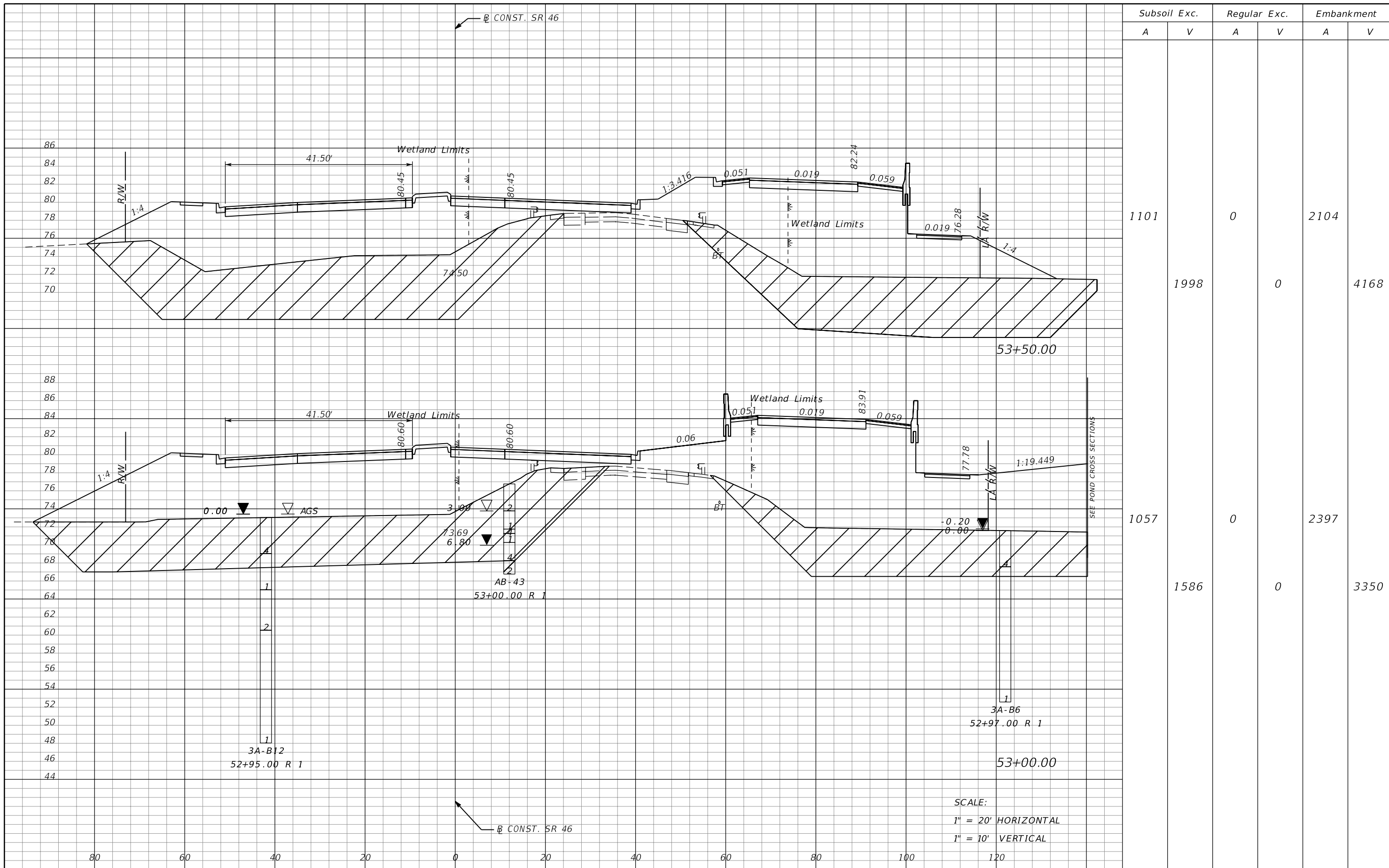
ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
 223





Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	1101	0		2104	
	1998	0		4168	
	1057	0		2397	
	1586	0		3350	

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

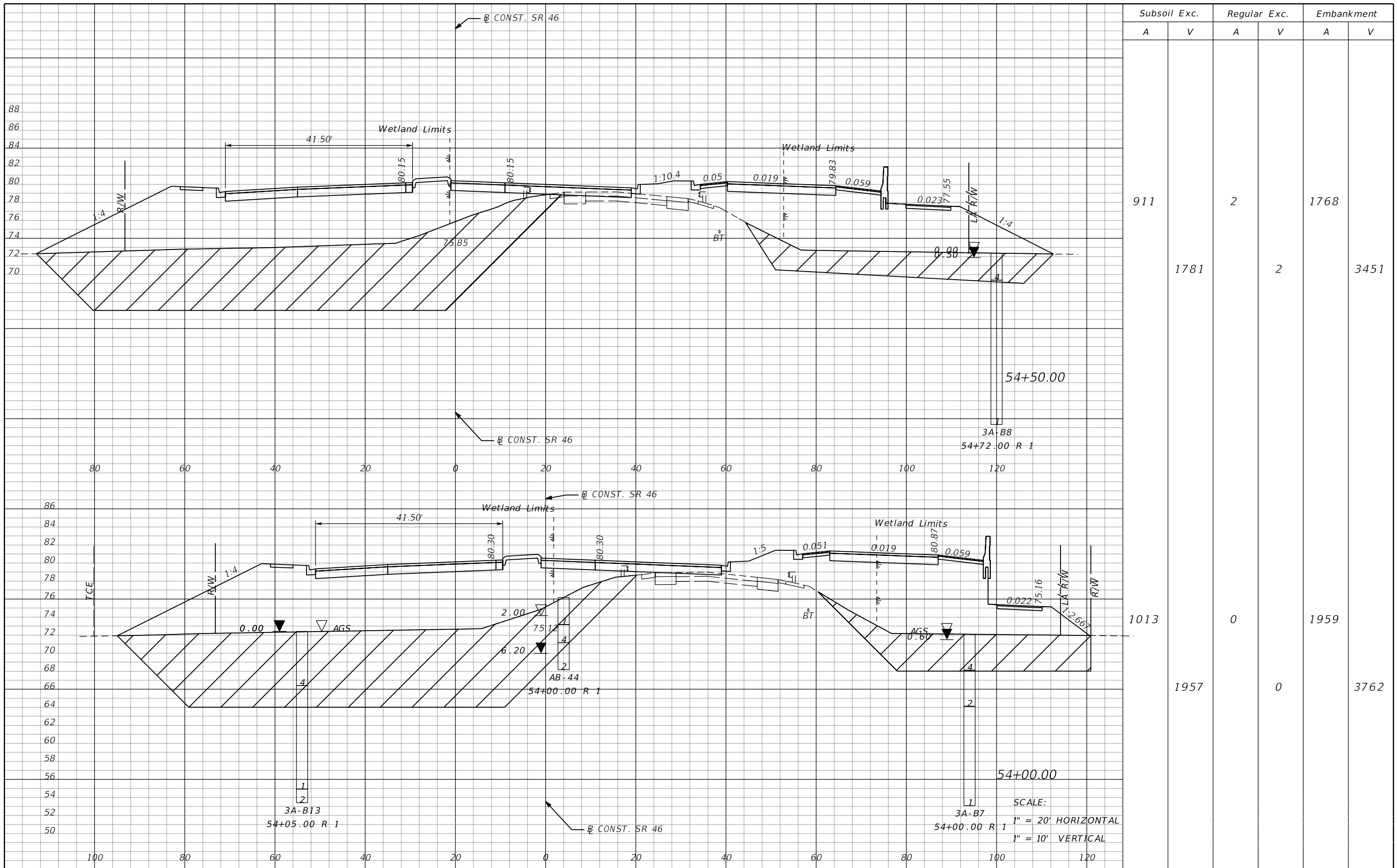
MOFFATT & NICHOL  
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ENGINEER OF RECORD:  
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**224**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
911		2		1768	
	1781		2		3451
1013		0		1959	
	1957		0		3762

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

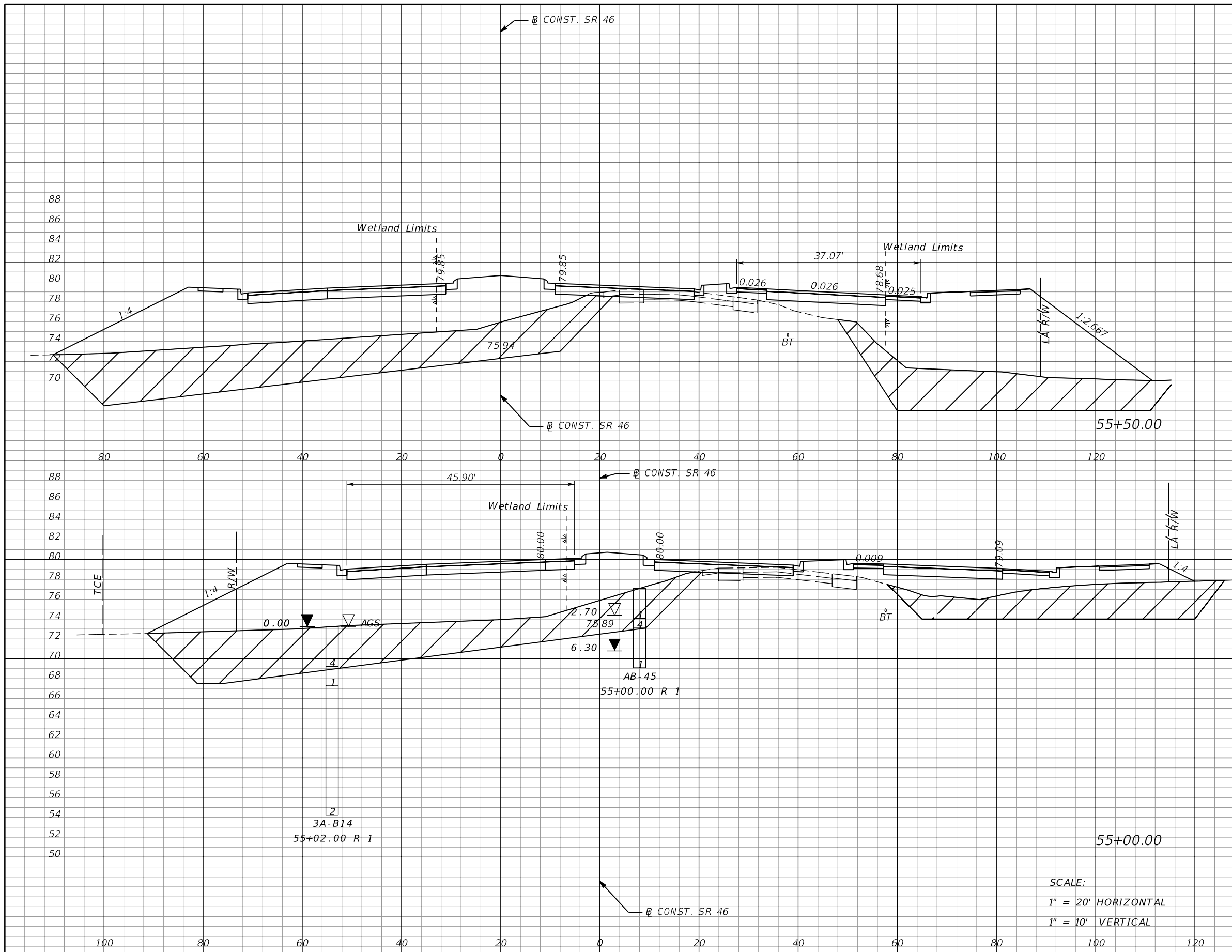
ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
 225



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
669		6		1462	
	1158		9		2429
582		4		1161	
	1382		6		2712

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

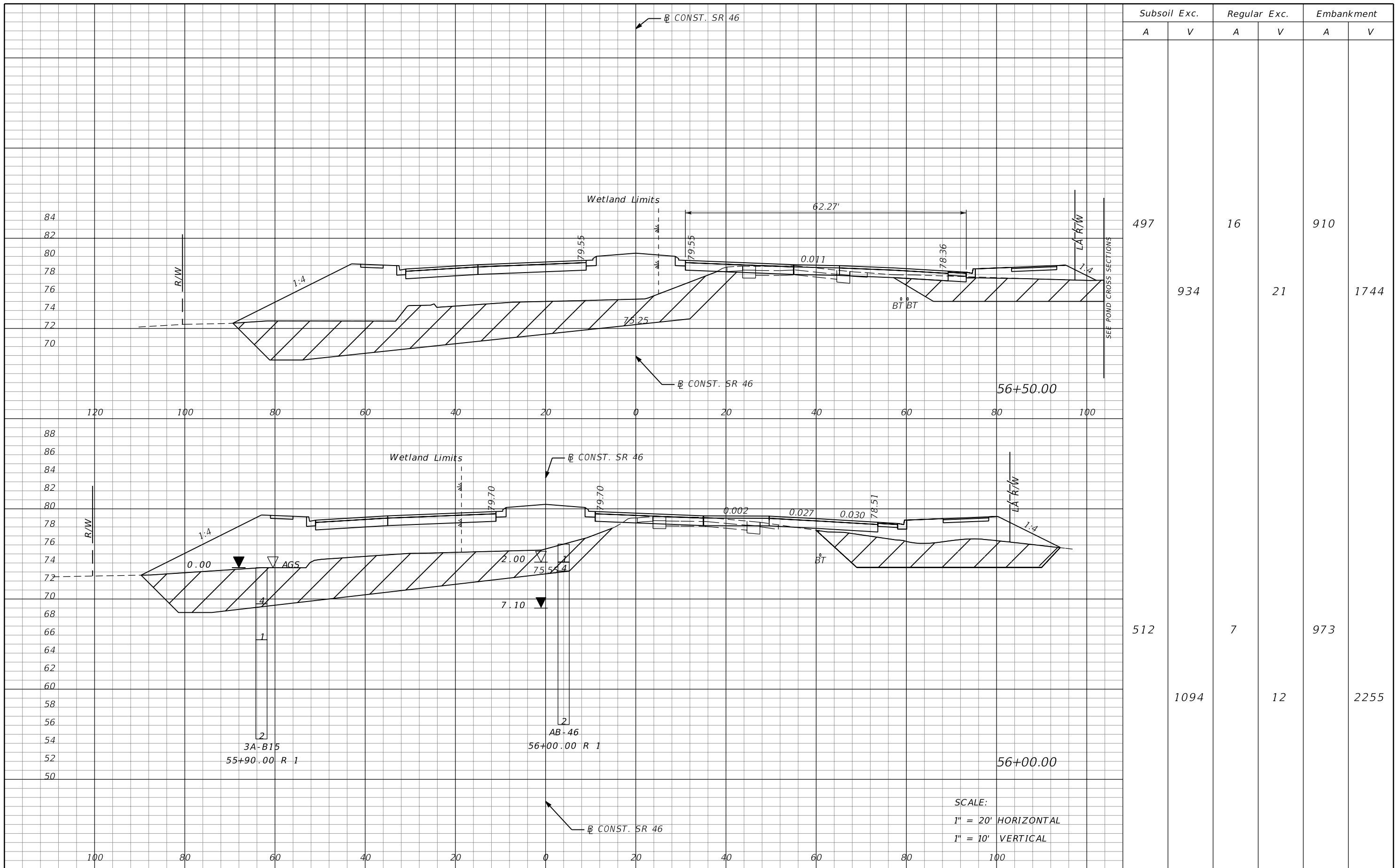
MOFFATT & NICHOL  
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 LAKE MARY, FL 32746  
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ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
 226



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
497		16		910	
	934		21		1744
512		7		973	
	1094		12		2255

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

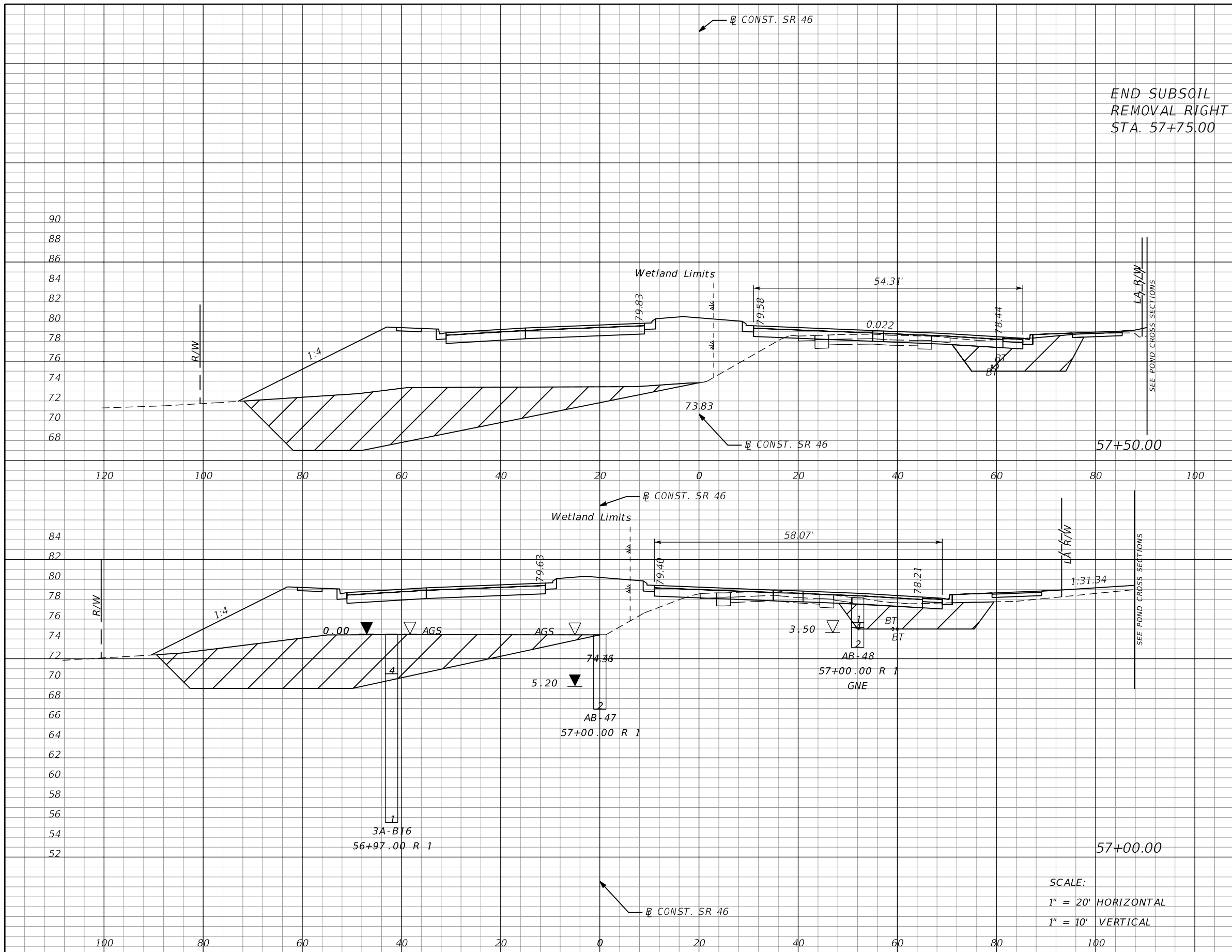
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
 227



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
370		23		874	
	681		37		1531
366		17		780	
	799		31		1565

END SUBSOIL  
REMOVAL RIGHT  
STA. 57+75.00

SCALE:  
1" = 20' HORIZONTAL  
1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

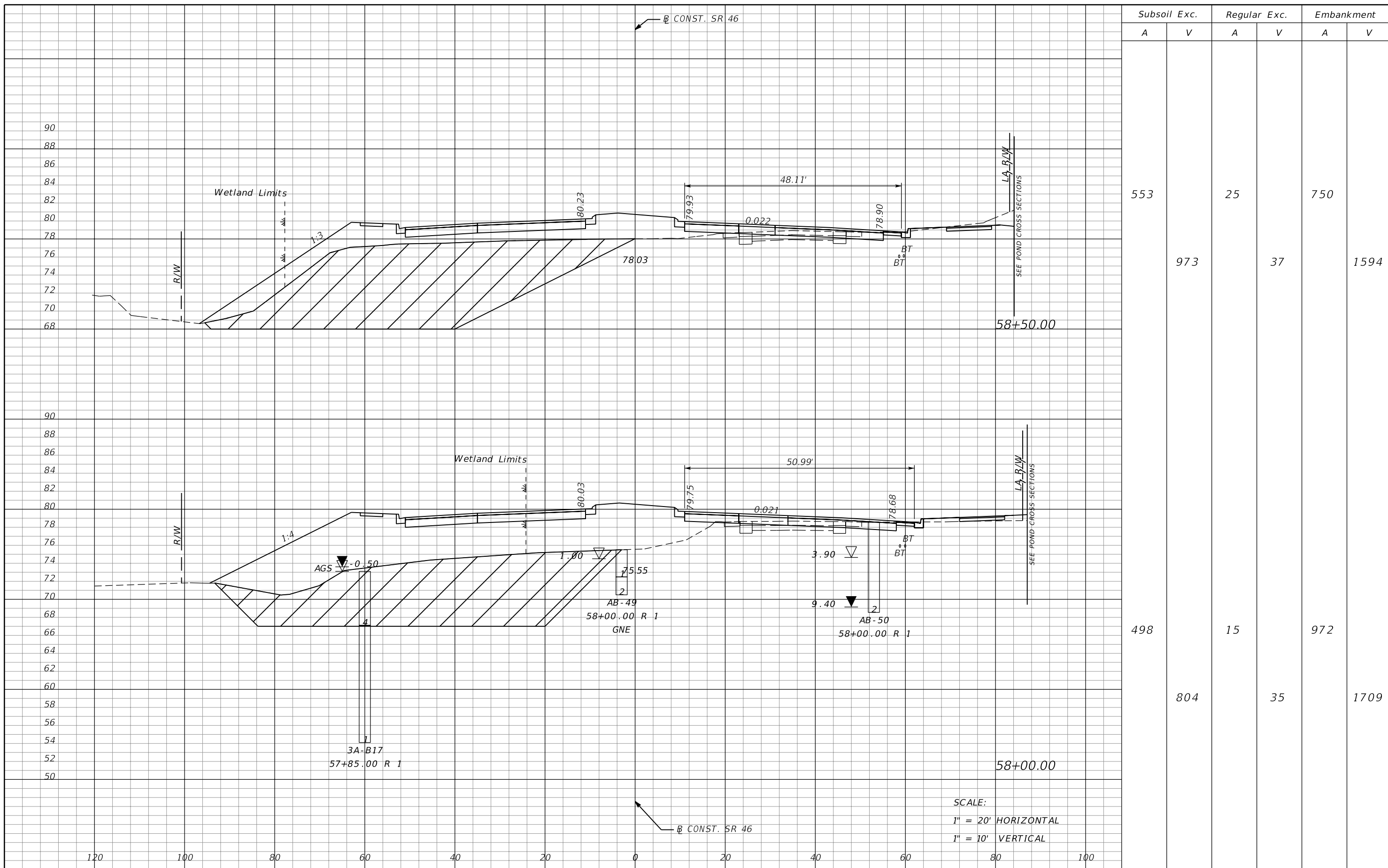
MOFFATT & NICHOL  
1025 GREENWOOD BLVD, STE 371  
LAKE MARY, FL 32746  
PHONE (407) 562-2030  
CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
JEFFREY A. MESSENGER, P.E.  
FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET  
NO.  
**228**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
553		25		750	
	973		37		1594
498		15		972	
	804		35		1709

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
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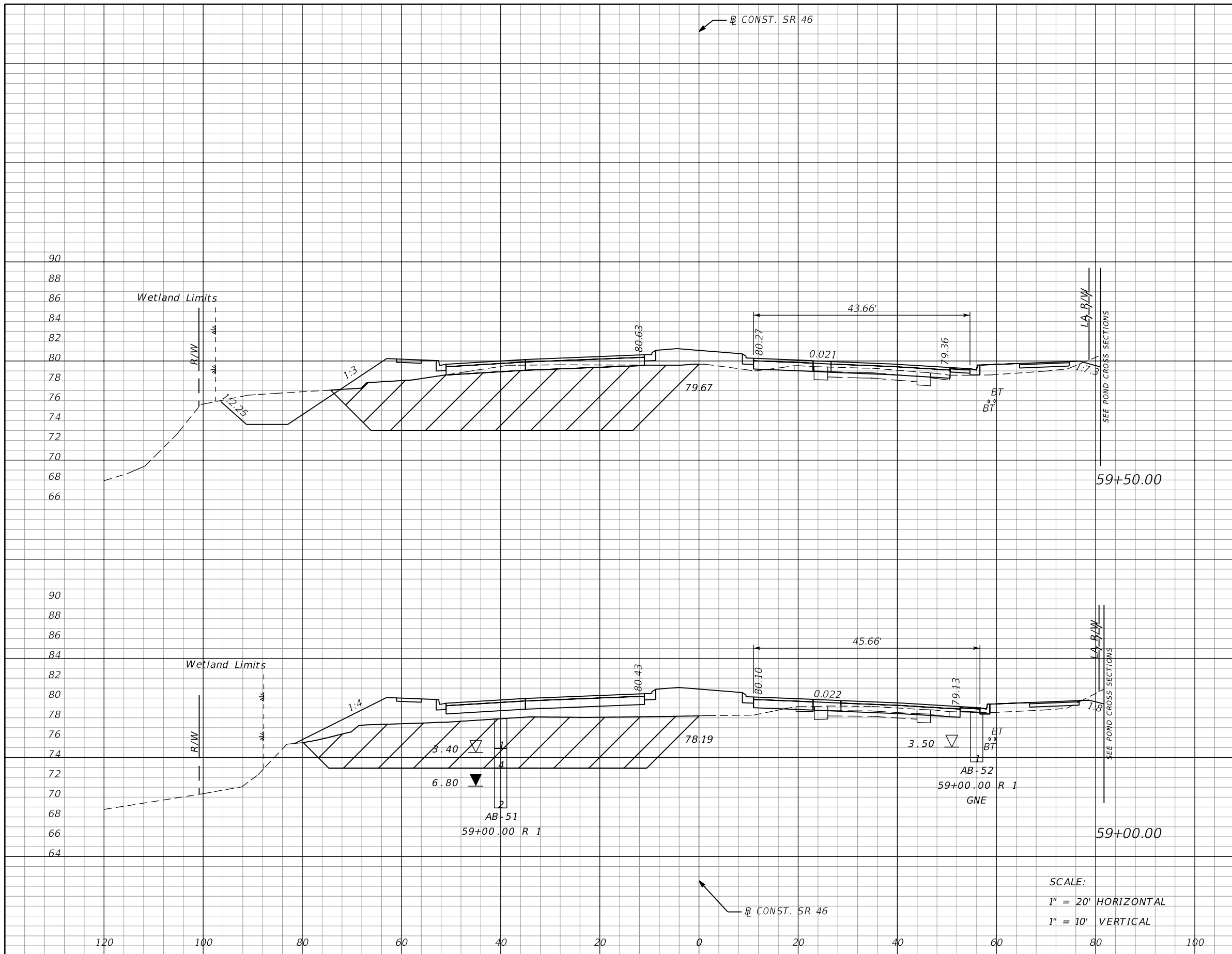
ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**229**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
368		59		451	
	656		65		882
341		11		502	
	828		33		1159

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

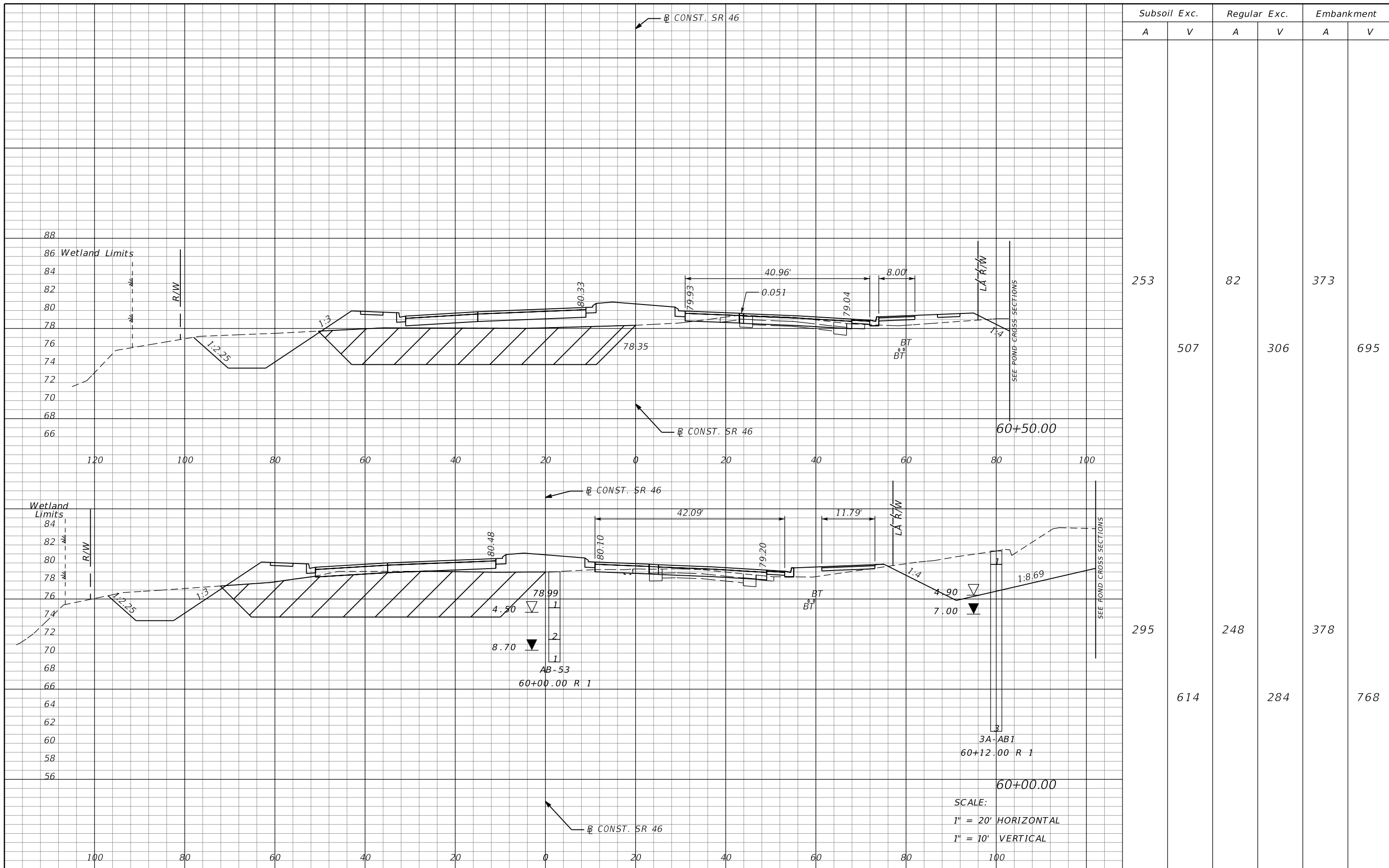
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**230**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
253		82		373	
	507		306		695
295		248		378	
	614		284		768

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
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 CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
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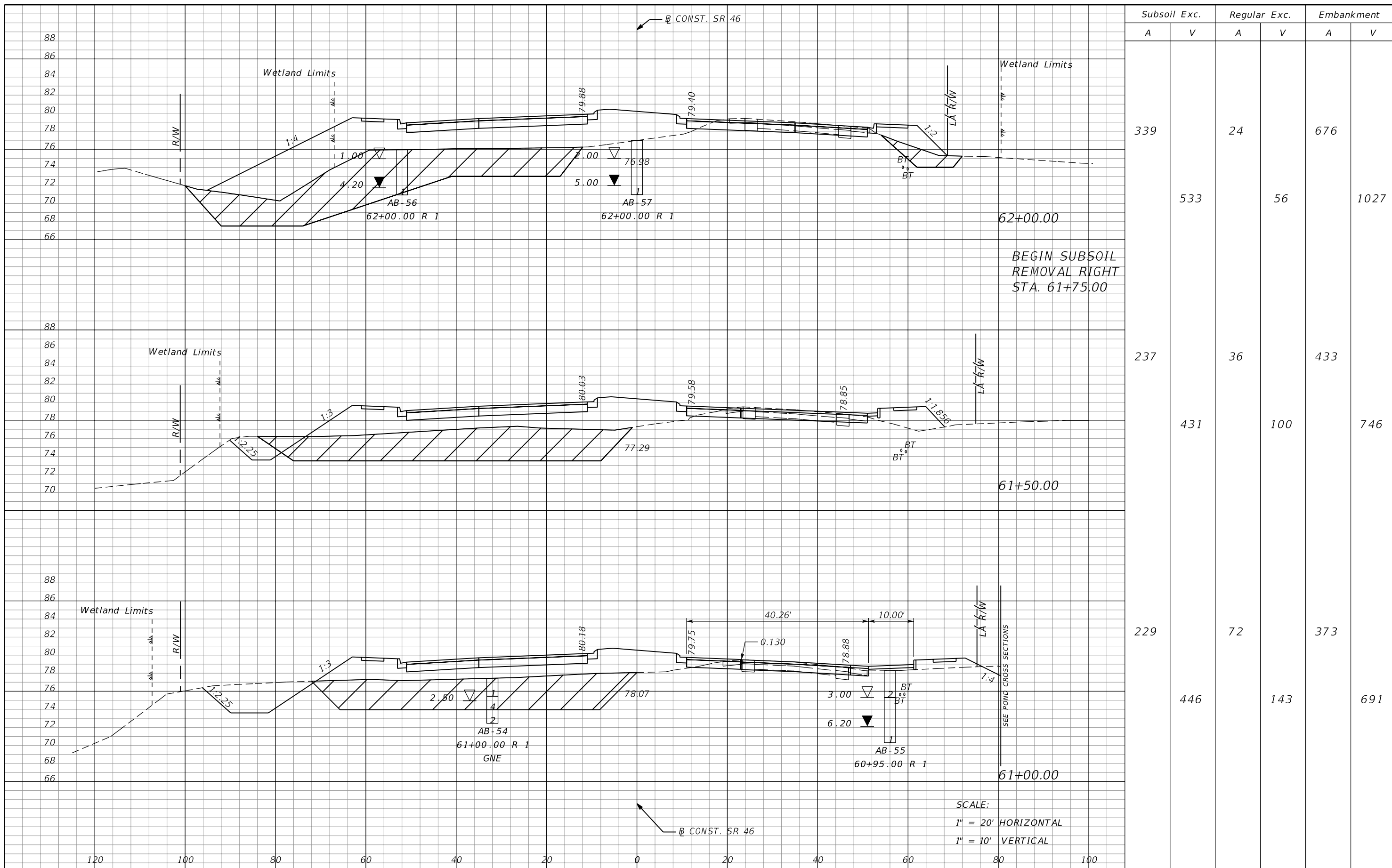
STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**231**





Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
339		24		676	
	533		56		1027
237		36		433	
	431		100		746
229		72		373	
	446		143		691

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
1025 GREENWOOD BLVD, STE 371  
LAKE MARY, FL 32746  
PHONE (407) 562-2030  
CERT. OF AUTH. NO. 4877

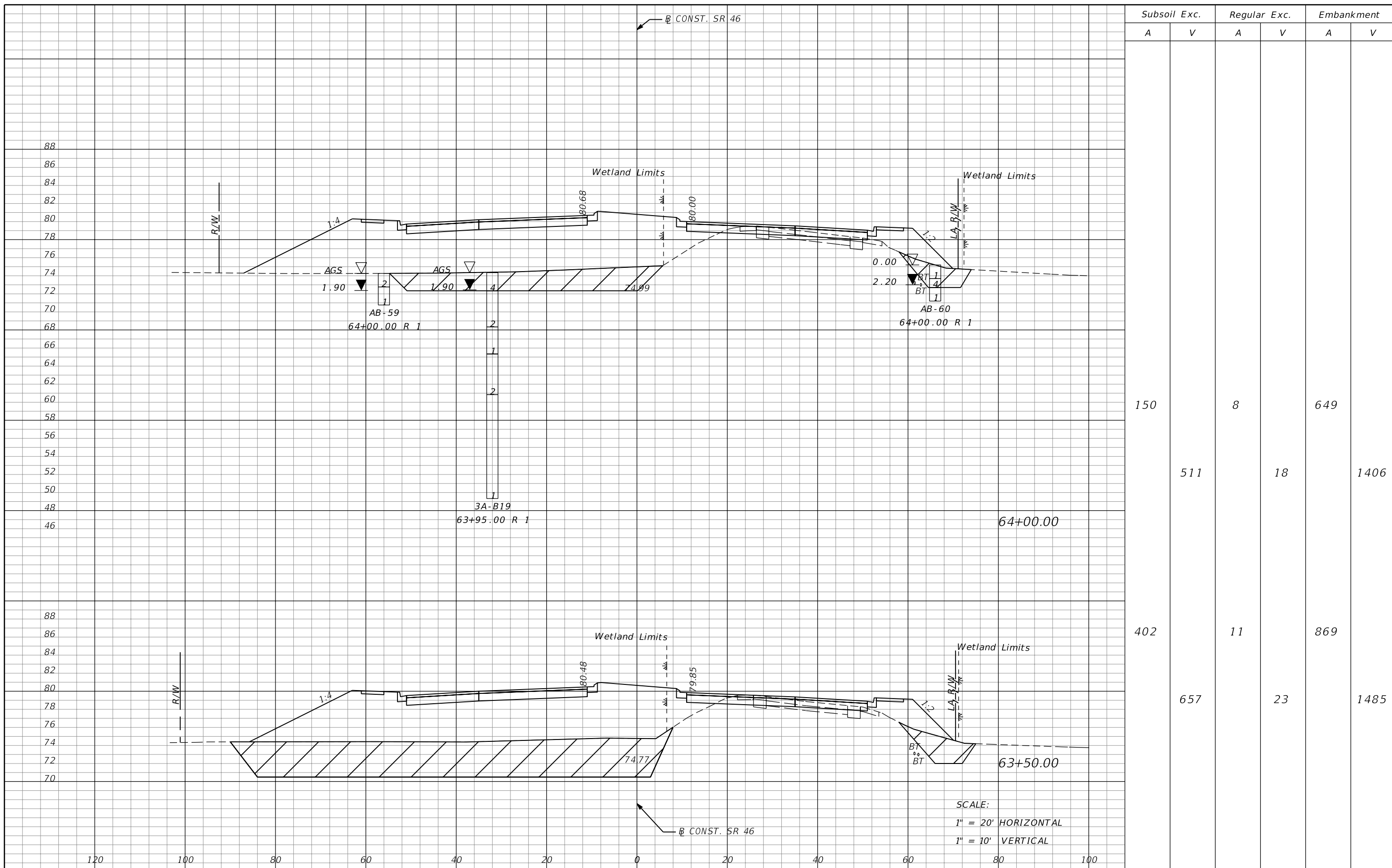
ENGINEER OF RECORD:  
JEFFREY A. MESSENGER, P.E.  
FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**232**





Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
150		8		649	
	511		18		1406
402		11		869	
	657		23		1485

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

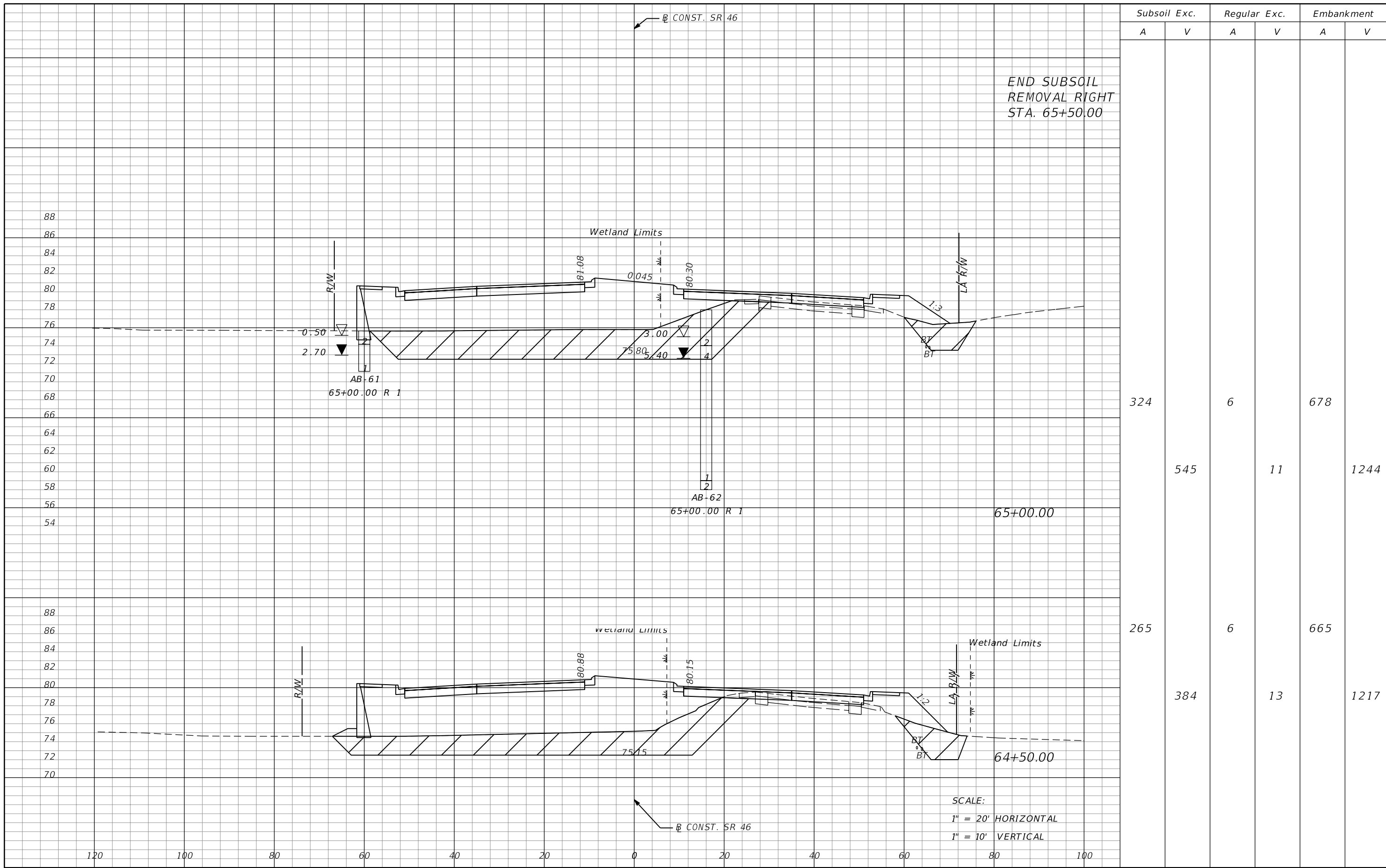
ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**234**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
324		6		678	
	545		11		1244
265		6		665	
	384		13		1217

END SUBSOIL  
REMOVAL RIGHT  
STA. 65+50.00

SCALE:  
1" = 20' HORIZONTAL  
1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
1025 GREENWOOD BLVD, STE 371  
LAKE MARY, FL 32746  
PHONE (407) 562-2030  
CERT. OF AUTH. NO. 4877

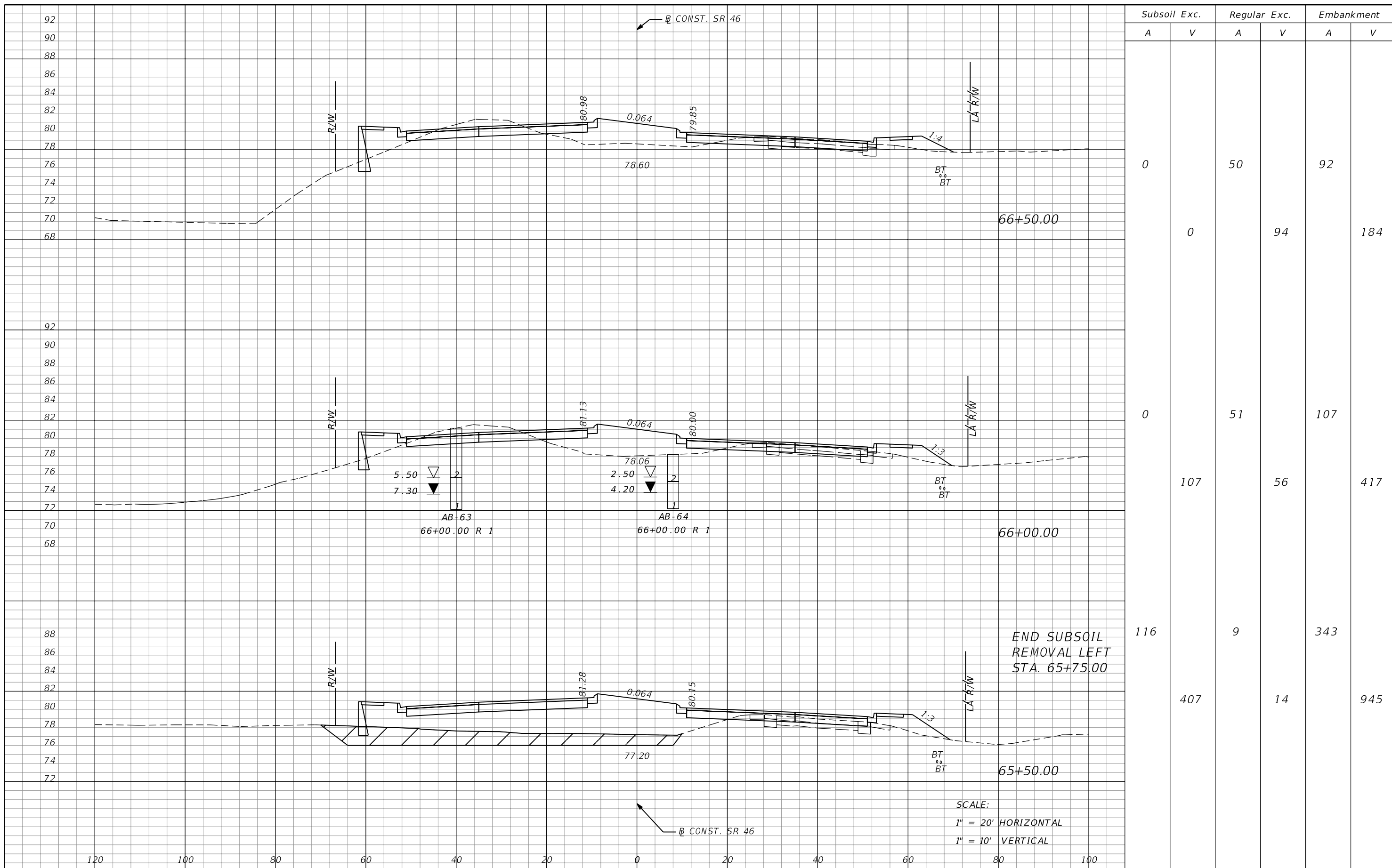
ENGINEER OF RECORD:  
JEFFREY A. MESSENGER, P.E.  
FL REGISTRATION NO. 57539

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**235**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		50		92	
	0		94		184
0		51		107	
	107		56		417
116		9		343	
	407		14		945

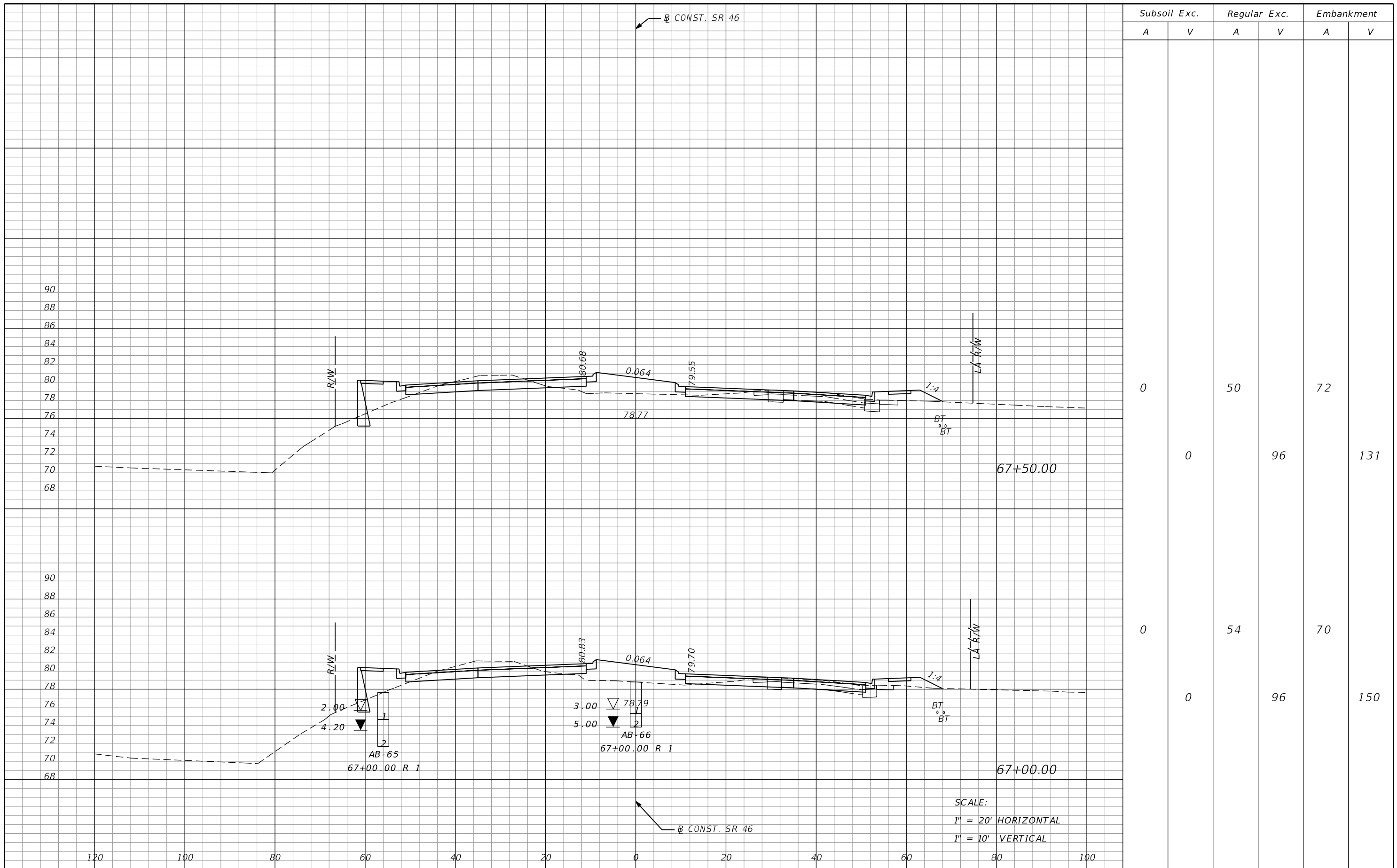
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877  
 ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**236**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	50	96	72	131
0	0	54	96	70	150

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

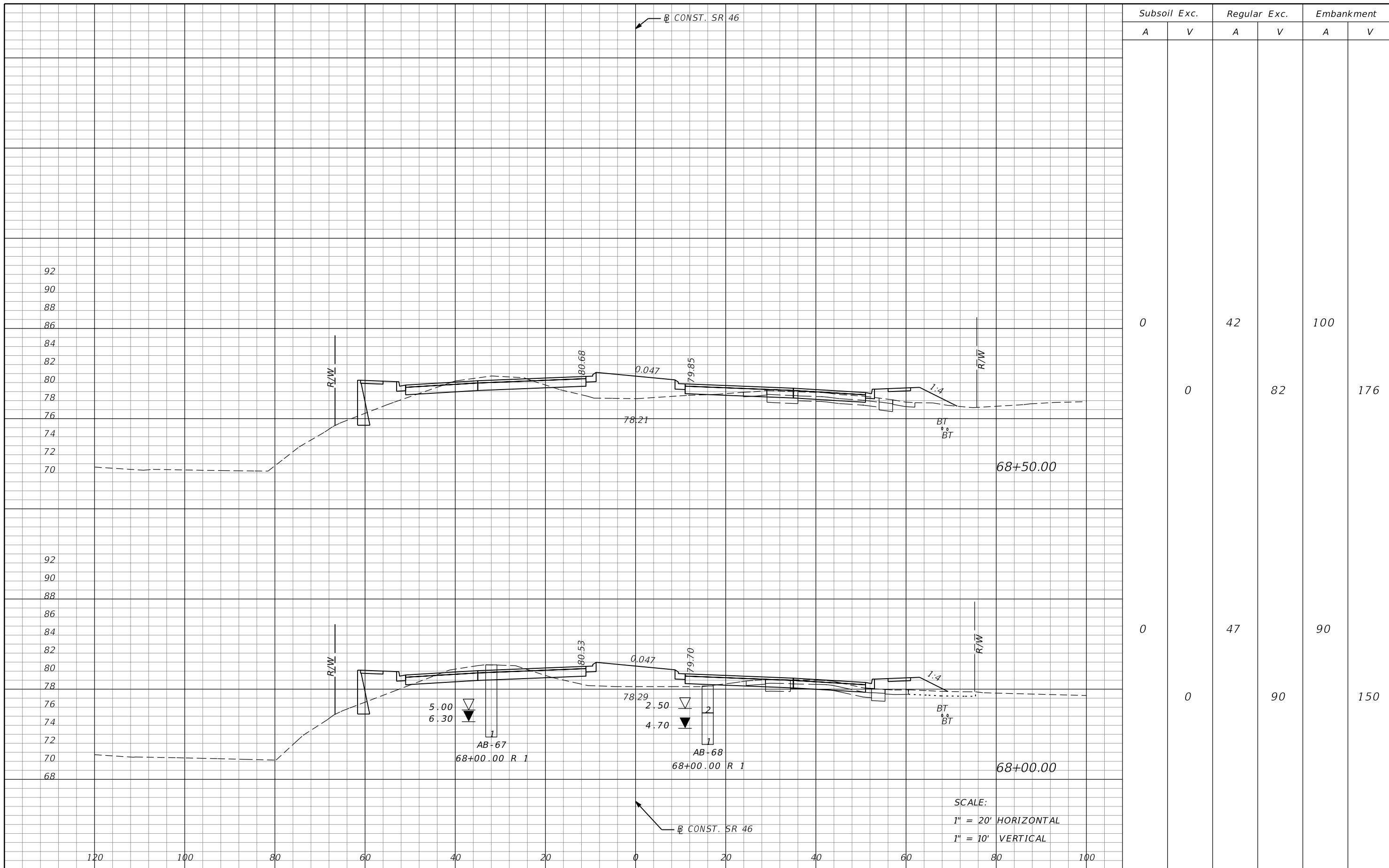
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**237**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	42	82	100	176
0	0	47	90	90	150

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

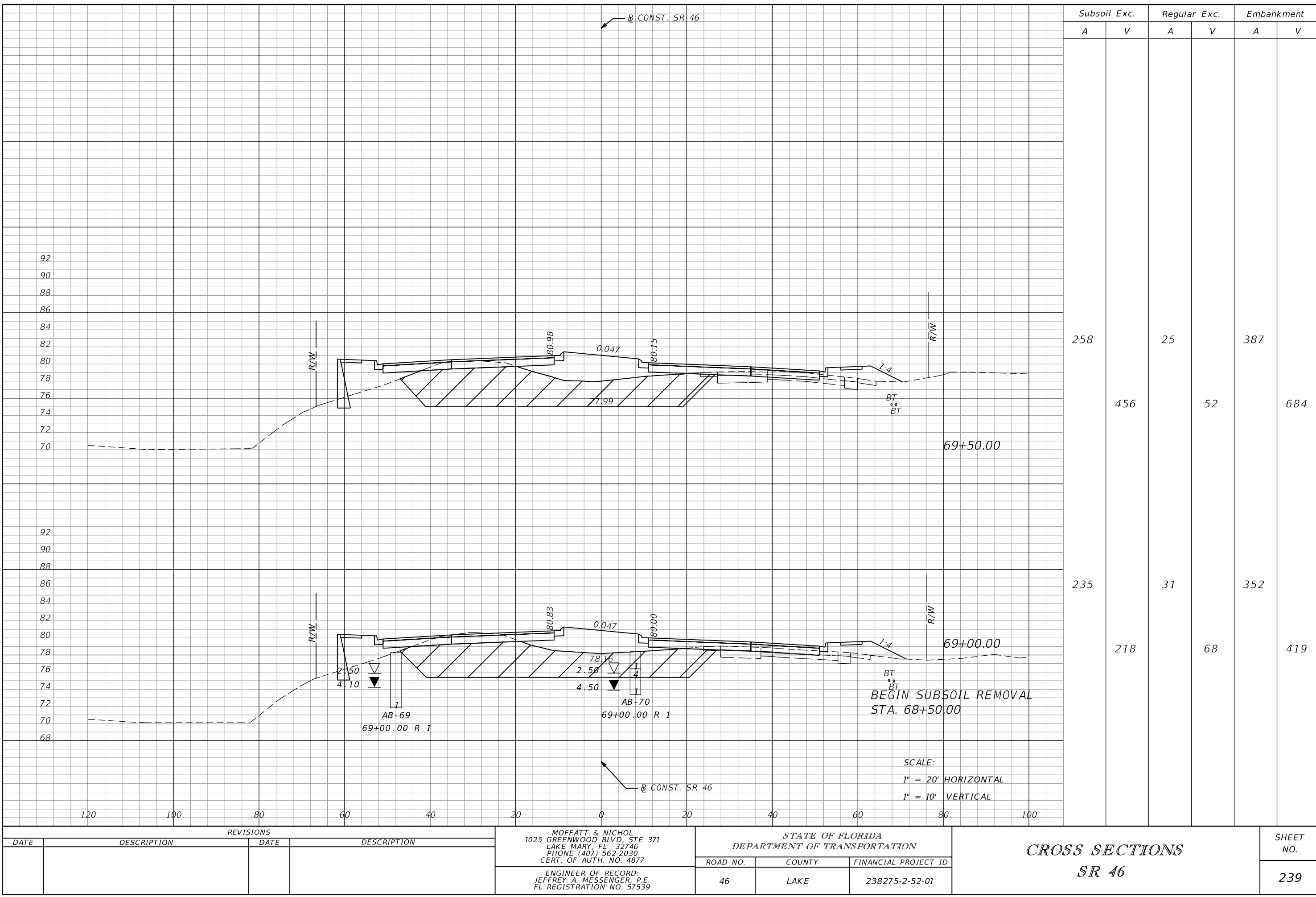
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
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ENGINEER OF RECORD:  
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 FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**238**



SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

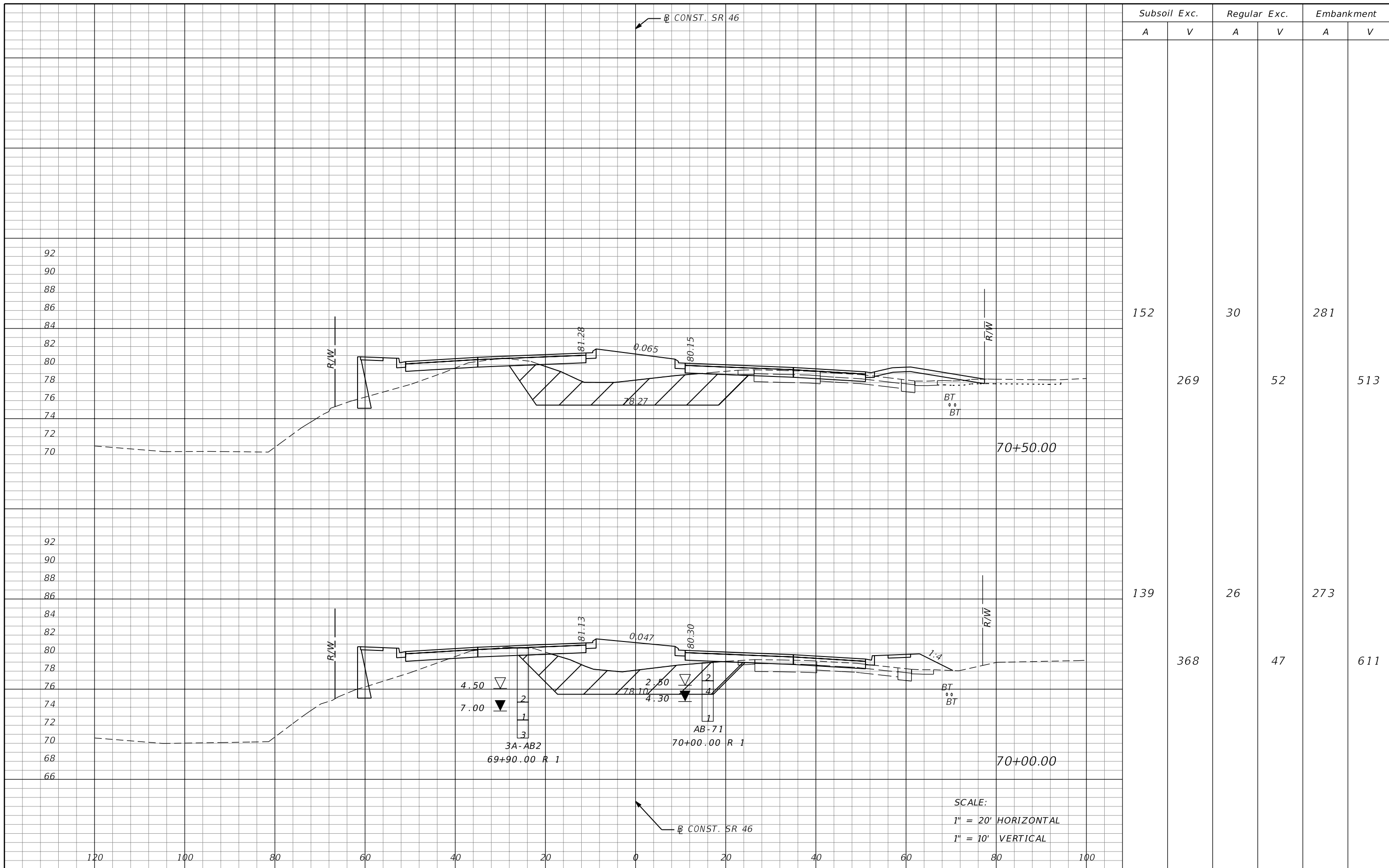
STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

CROSS SECTIONS  
 SR 46

SHEET NO.  
 239





Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
152		30		281	
	269		52		513
139		26		273	
	368		47		611

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

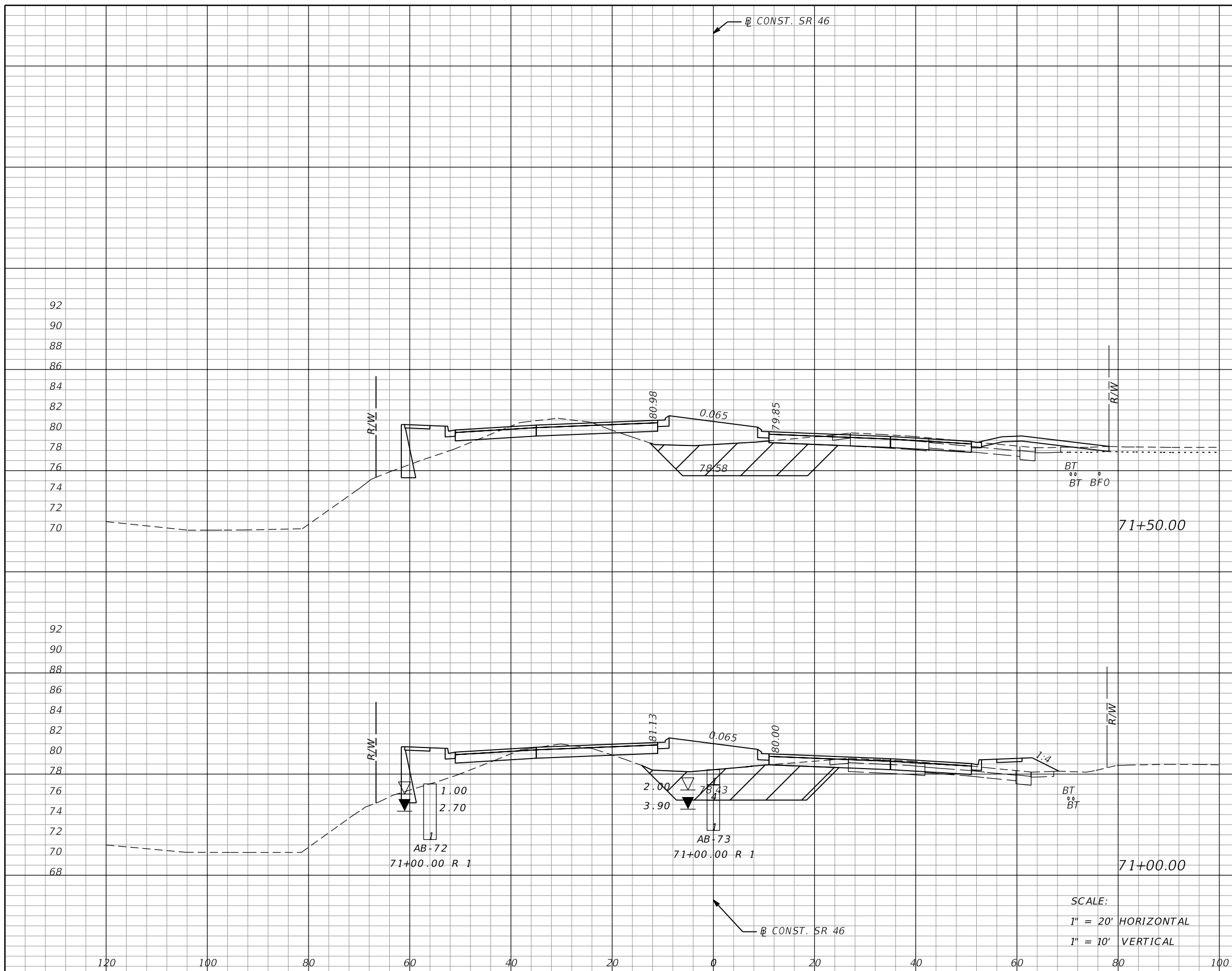
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
 240



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
97		66		186	
183		102		371	
101		44		215	
234		69		459	

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

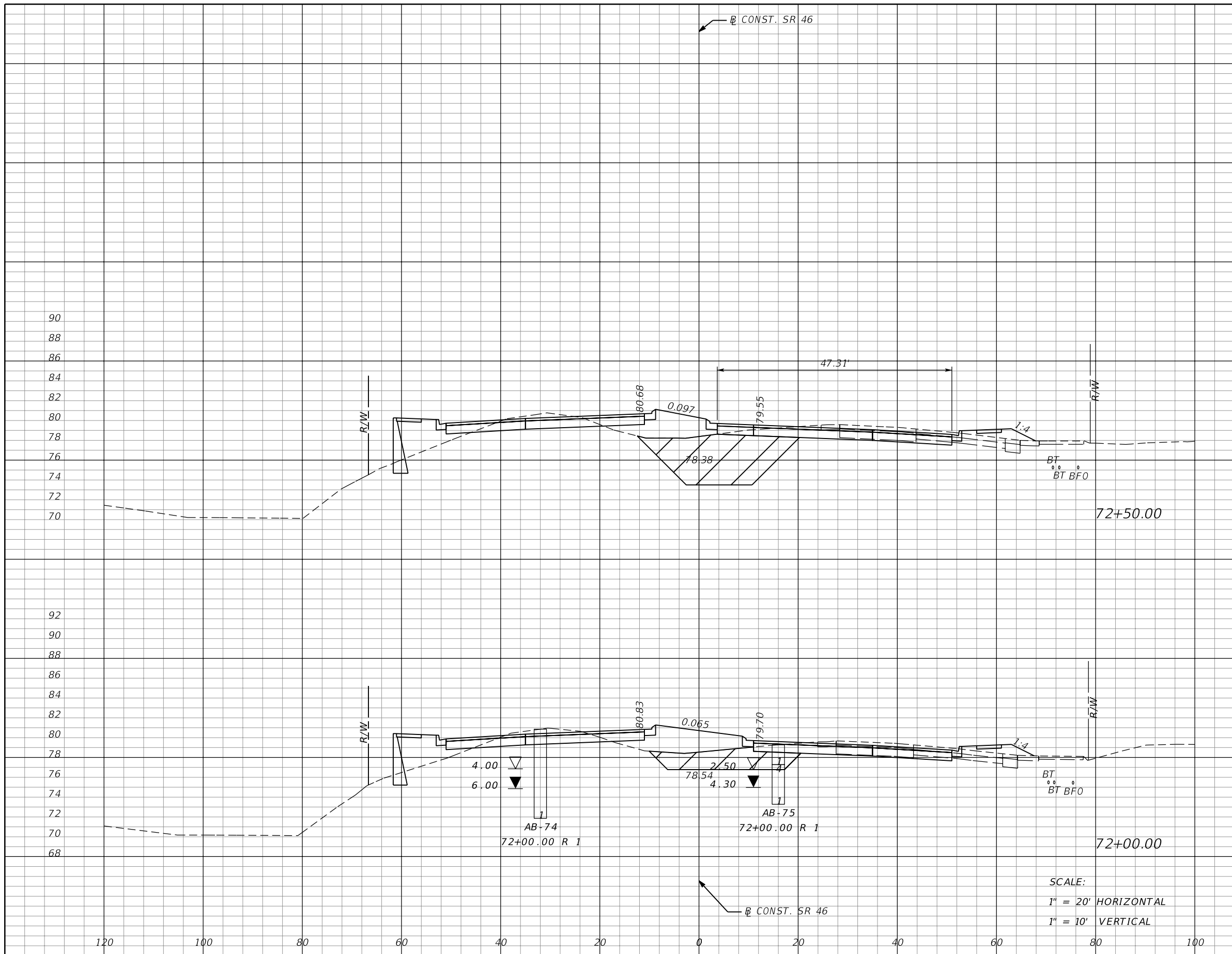
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

**CROSS SECTIONS**

**SR 46**

SHEET NO.	241
-----------	-----



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
112		73		193	
	150		133		306
50		71		138	
	136		127		300

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

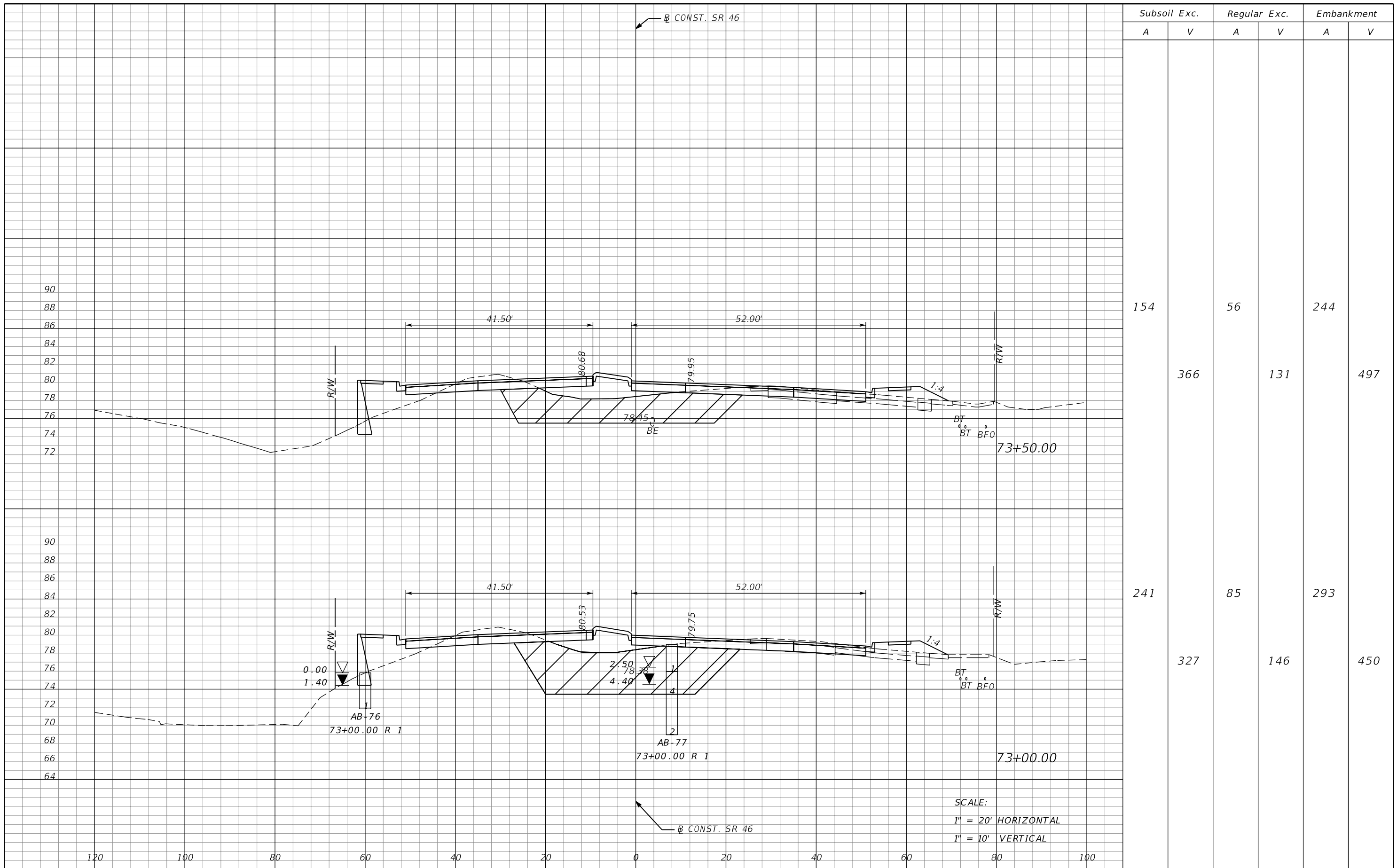
ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**242**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
154		56		244	
	366		131		497
241		85		293	
	327		146		450

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

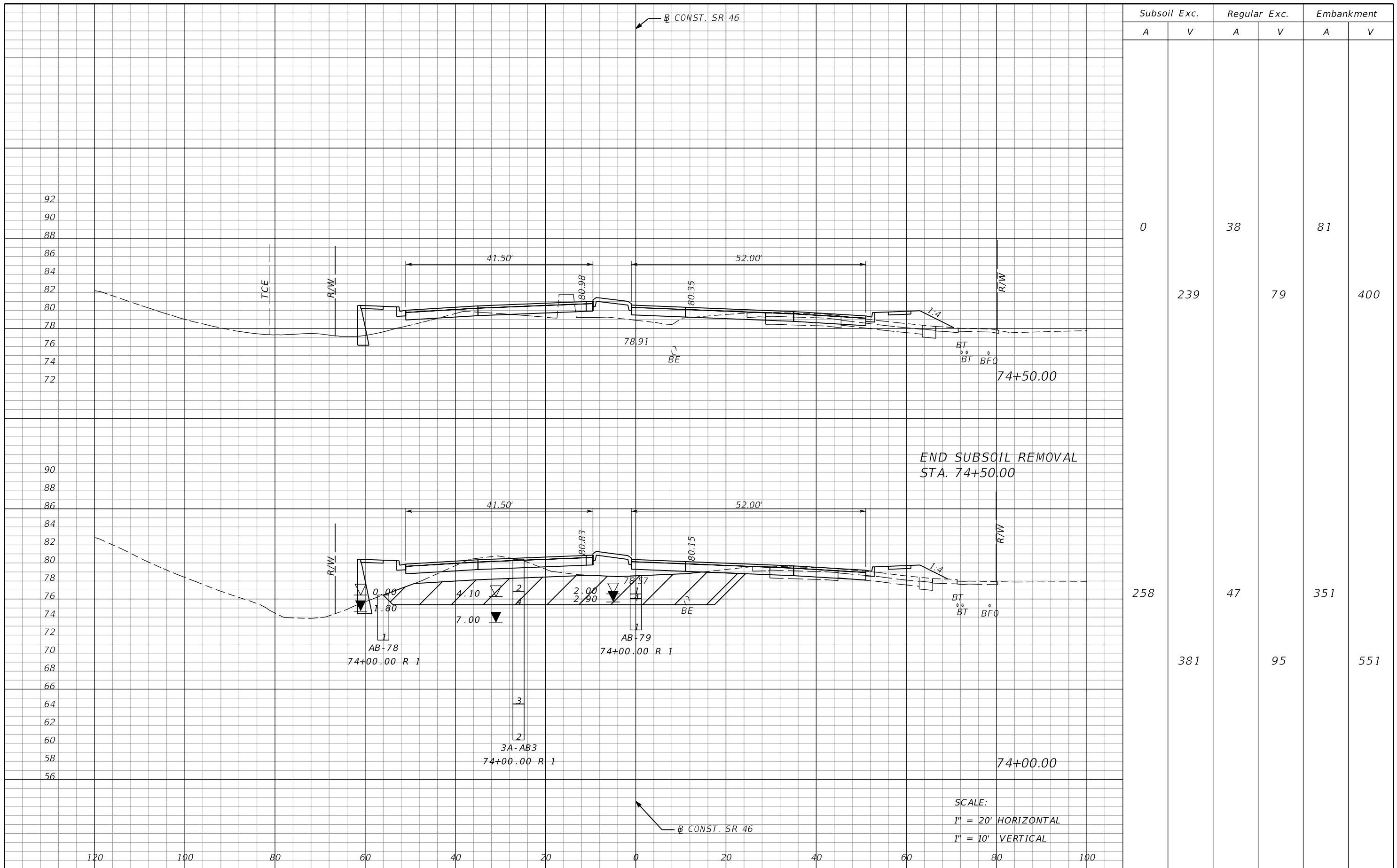
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
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 FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**243**



END SUBSOIL REMOVAL  
STA. 74+50.00

SCALE:  
1" = 20' HORIZONTAL  
1" = 10' VERTICAL

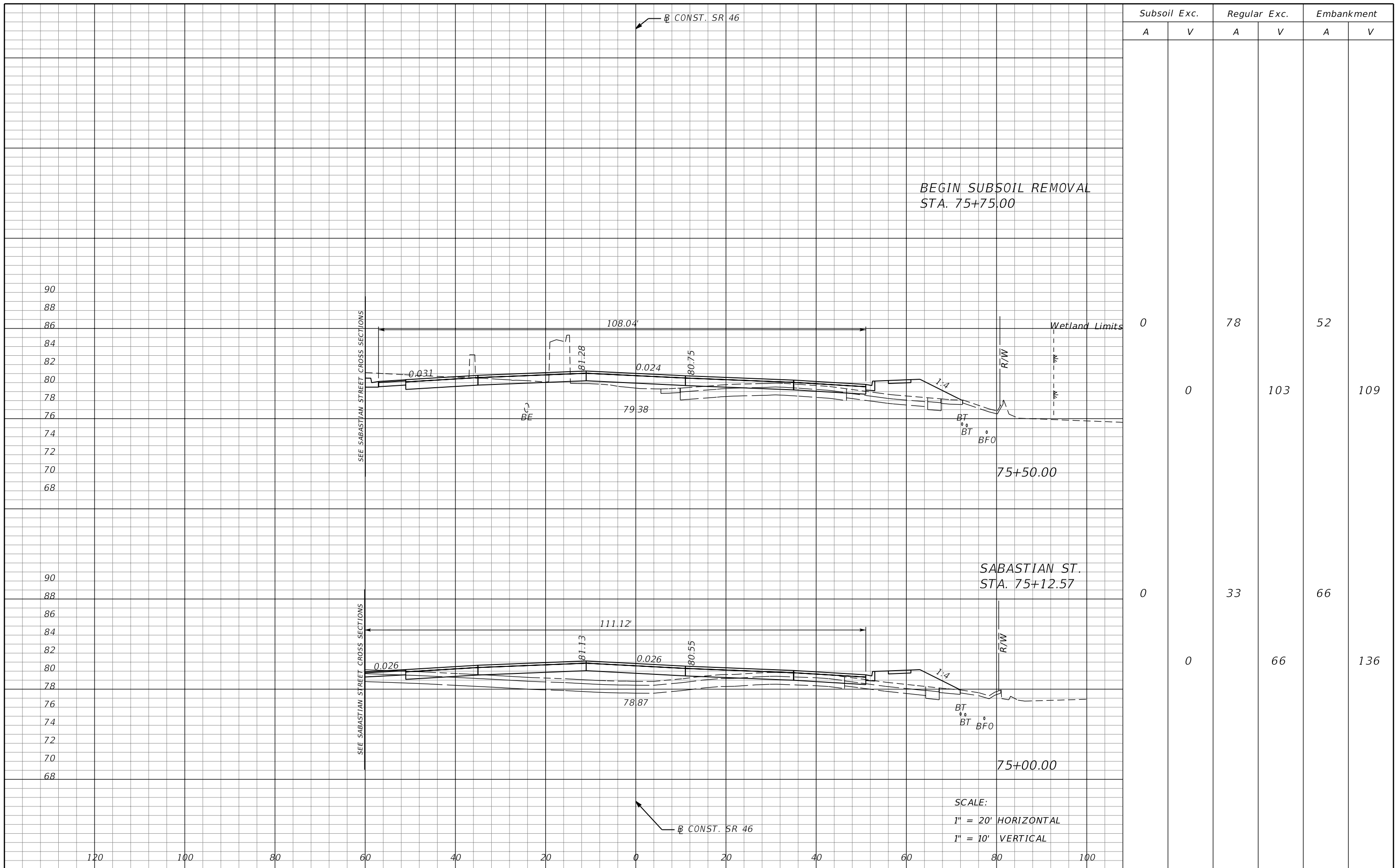
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
1025 GREENWOOD BLVD, STE 371  
LAKE MARY, FL 32746  
PHONE (407) 562-2030  
CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
JEFFREY A. MESSENGER, P.E.  
FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

CROSS SECTIONS SR 46		SHEET NO.
		244

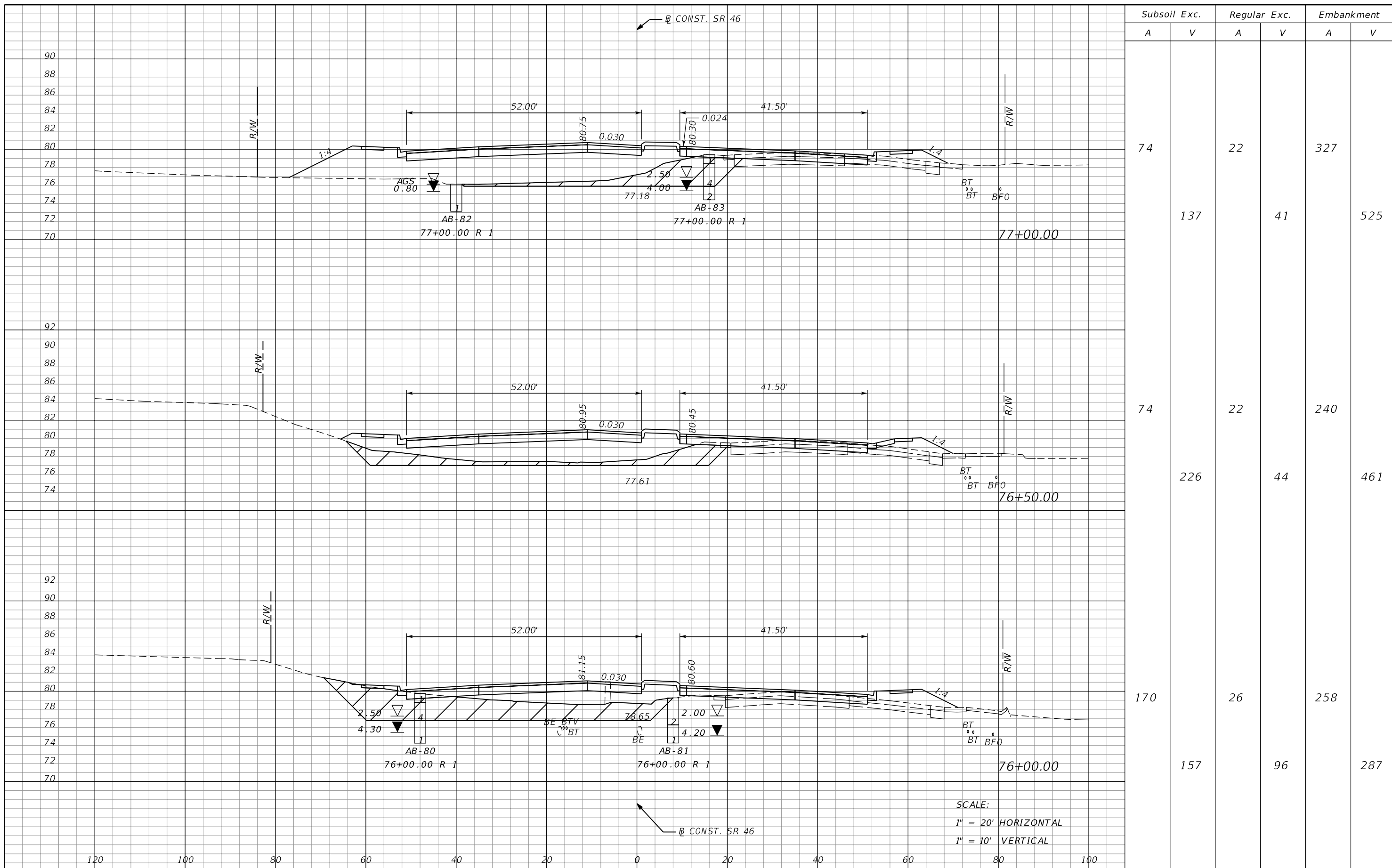


Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		78		52	
0			103		109
0		33		66	
0			66		136

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS SR 46	SHEET NO. 245
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				46	LAKE	238275-2-52-01		

MOFFATT & NICHOL  
1025 GREENWOOD BLVD, STE 371  
LAKE MARY, FL 32746  
PHONE (407) 562-2030  
CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
JEFFREY A. MESSENGER, P.E.  
FL REGISTRATION NO. 57539



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
74		22		327	
	137		41		525
74		22		240	
	226		44		461
170		26		258	
	157		96		287

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

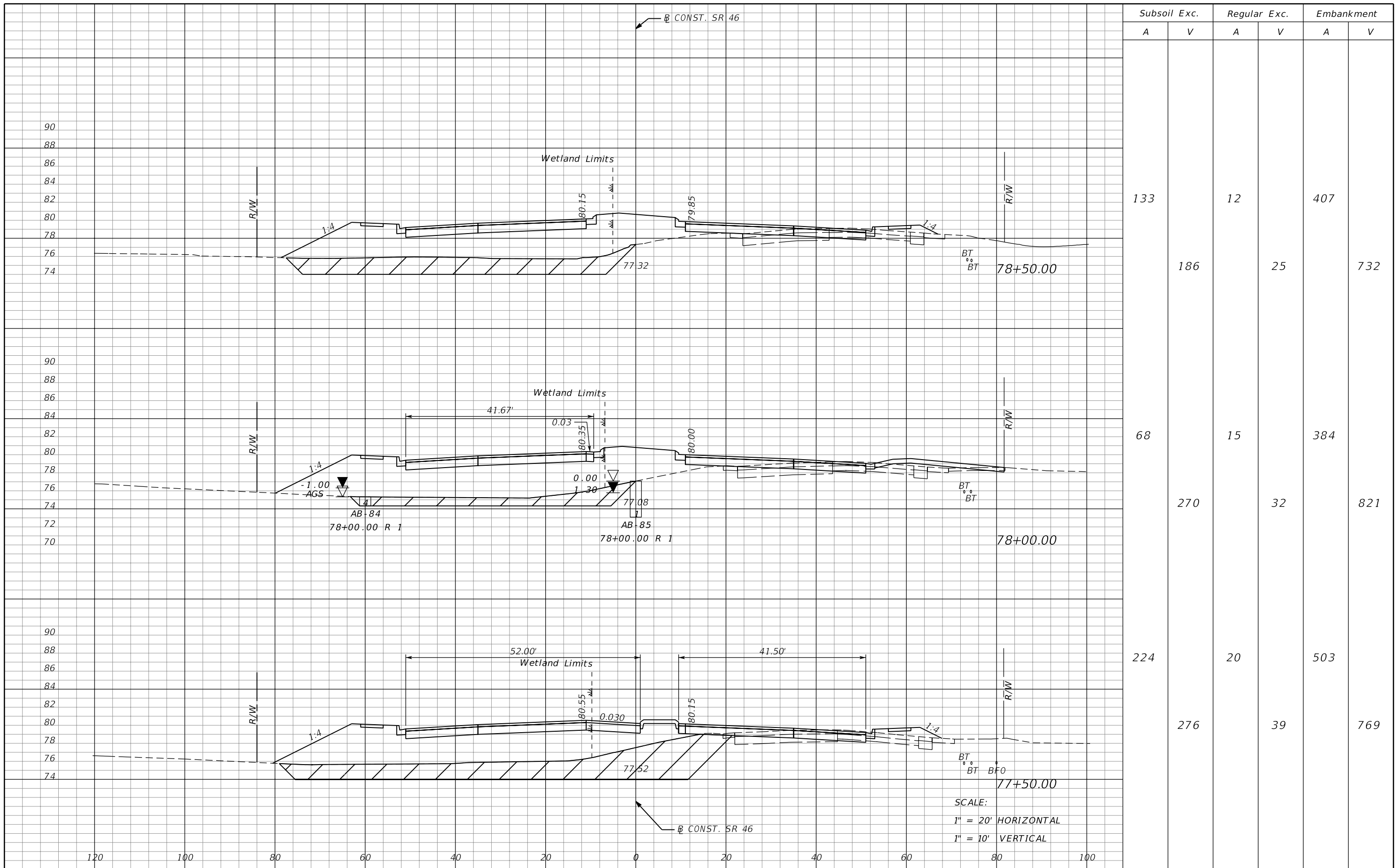
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
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 PHONE (407) 562-2030  
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 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**246**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
133		12		407	
	186		25		732
68		15		384	
	270		32		821
224		20		503	
	276		39		769

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
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 FL REGISTRATION NO. 57539

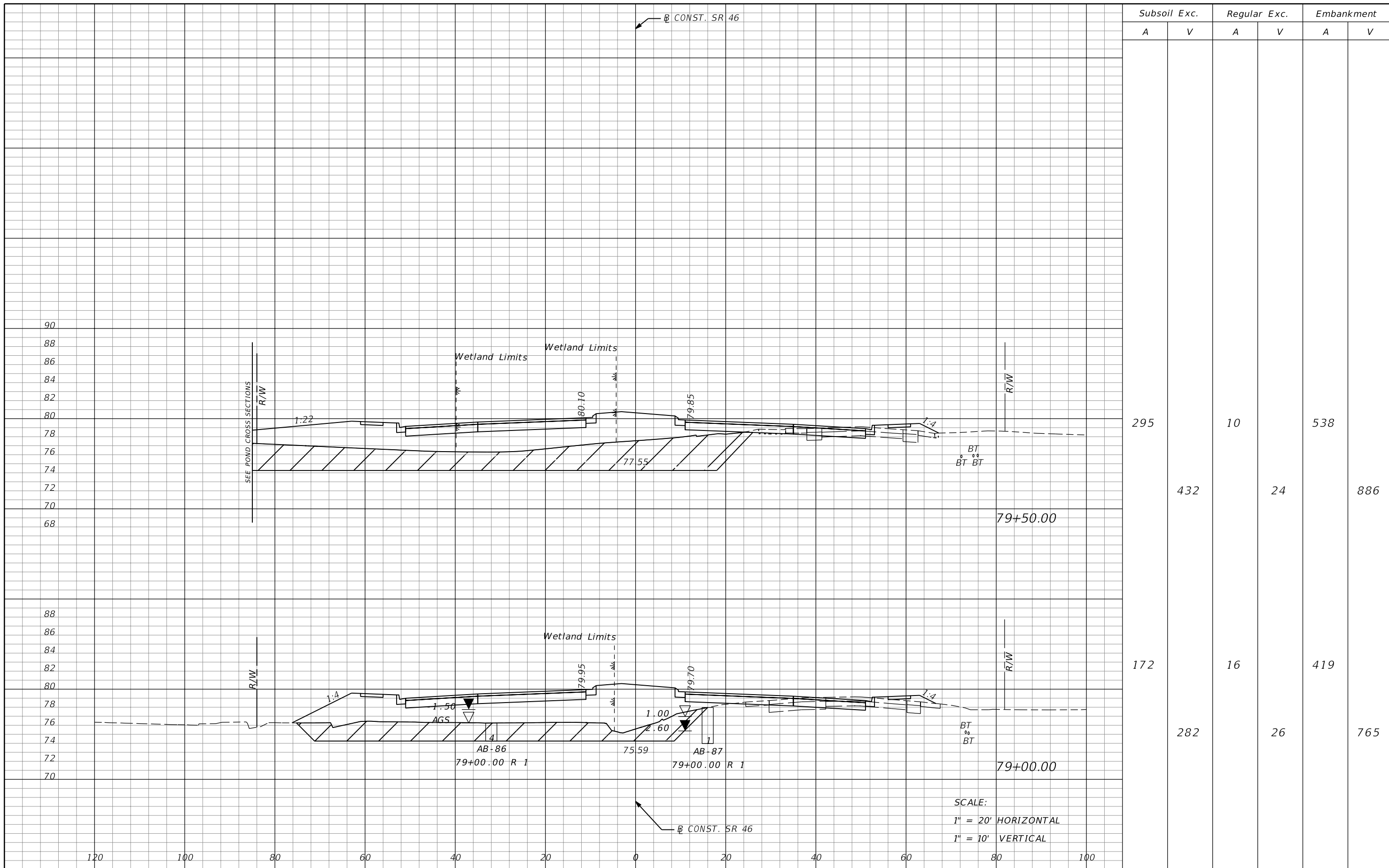
STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**247**





Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
295		10		538	
	432		24		886
172		16		419	
	282		26		765

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

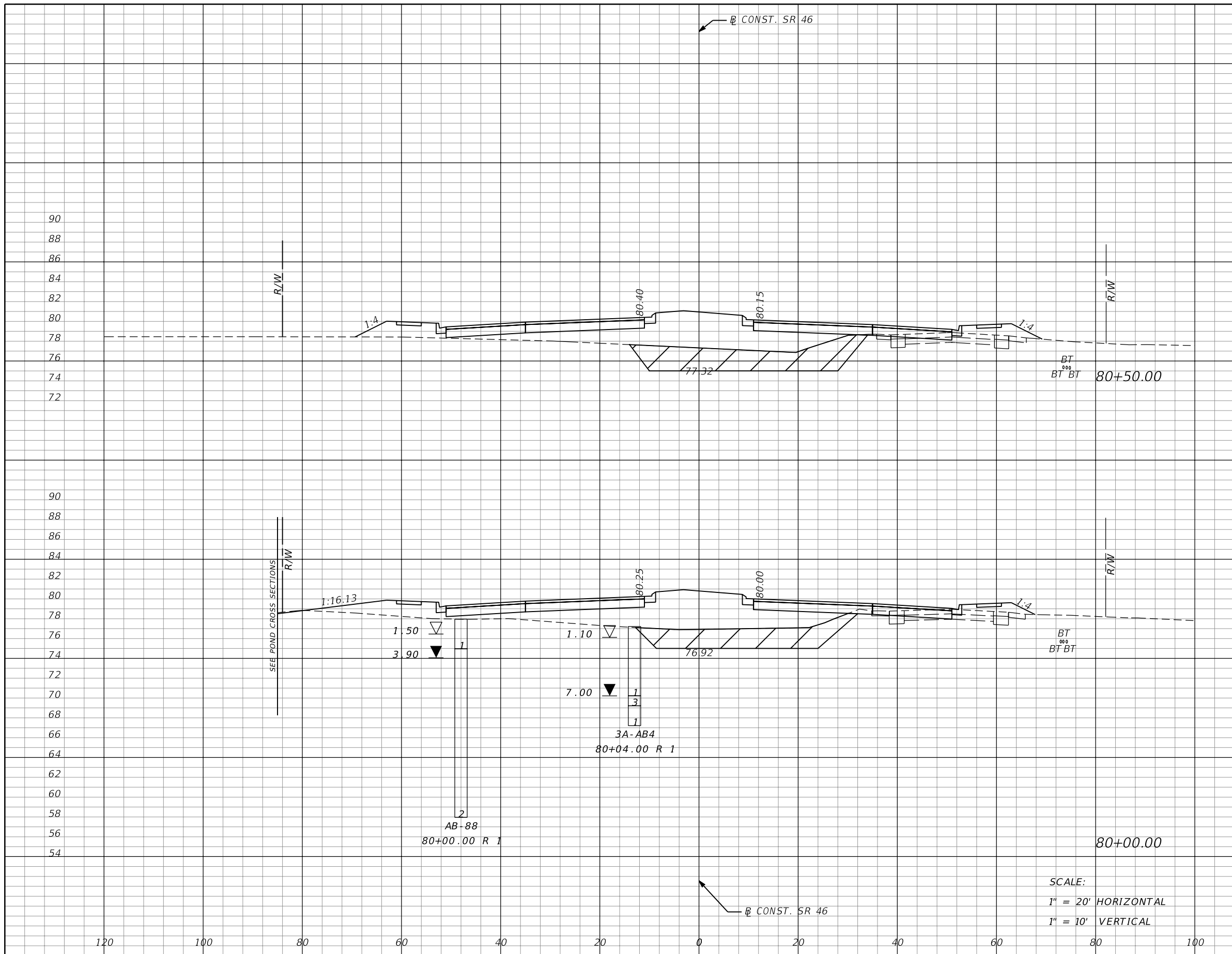
ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**248**



	Subsoil Exc.		Regular Exc.		Embankment	
	A	V	A	V	A	V
103			1		284	
		169		6		516
80			5		273	
		347		14		751

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

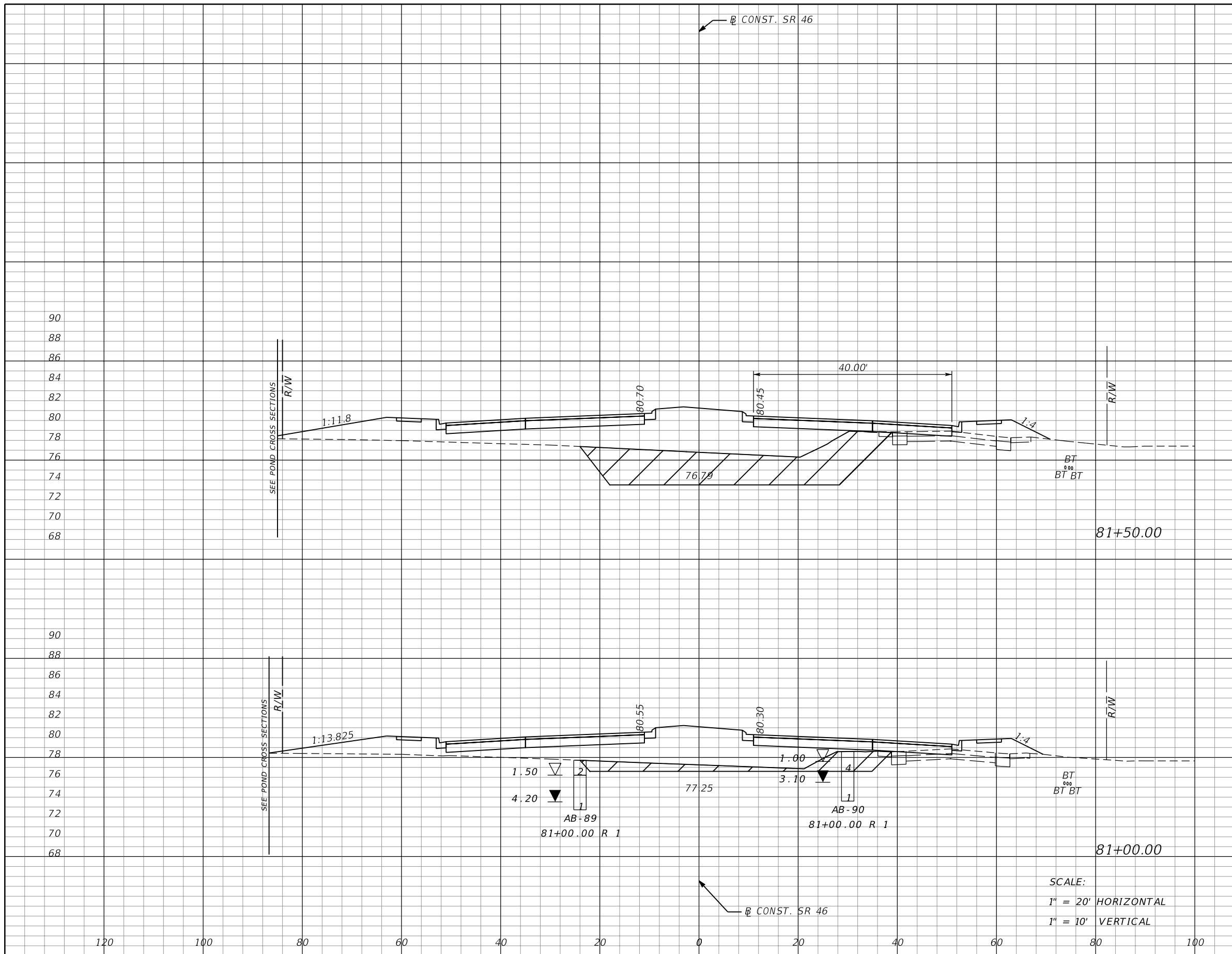
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
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ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**249**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
195		1		482	
	232		1		708
56		0		283	
	147		1		525

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

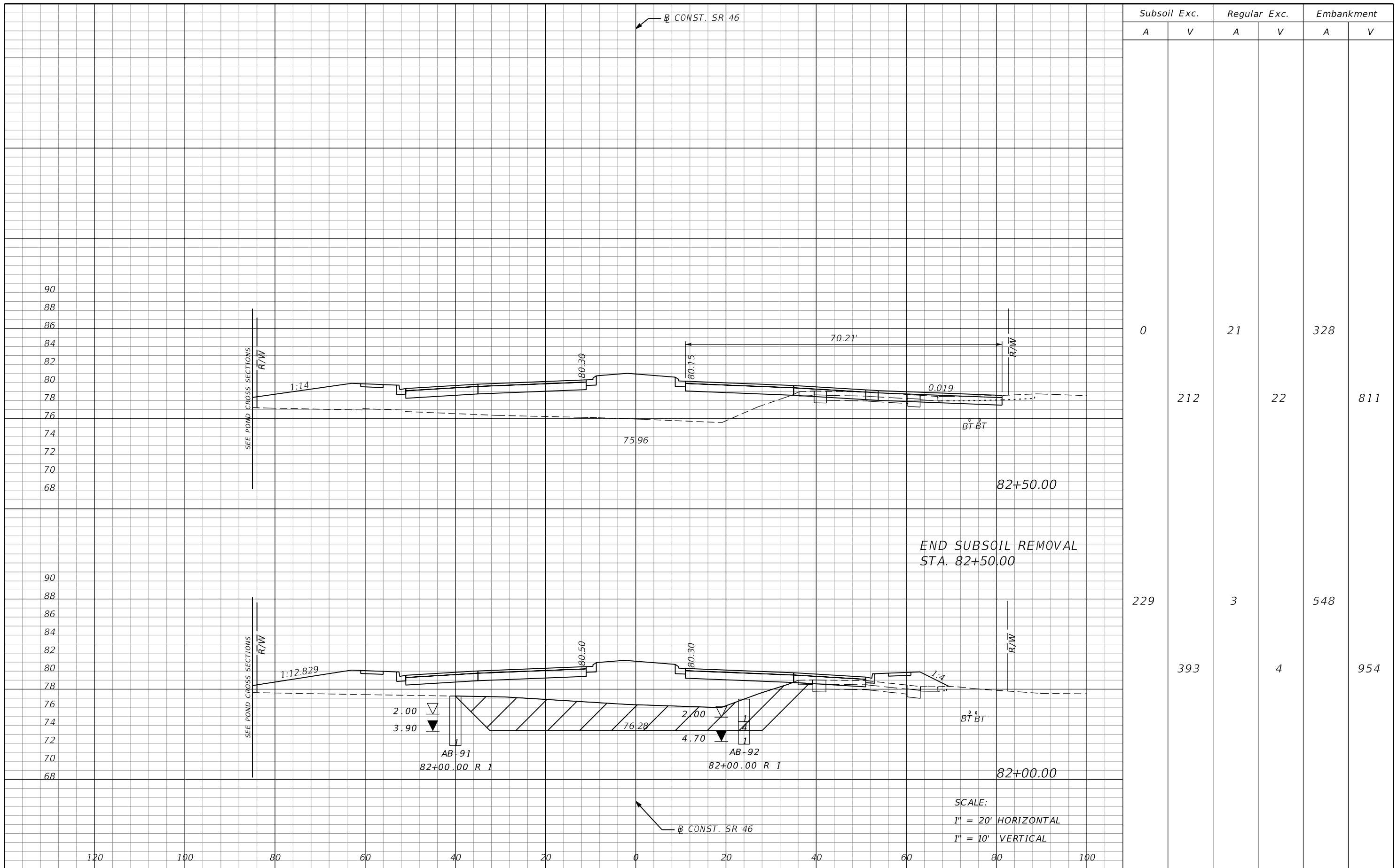
ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**250**



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

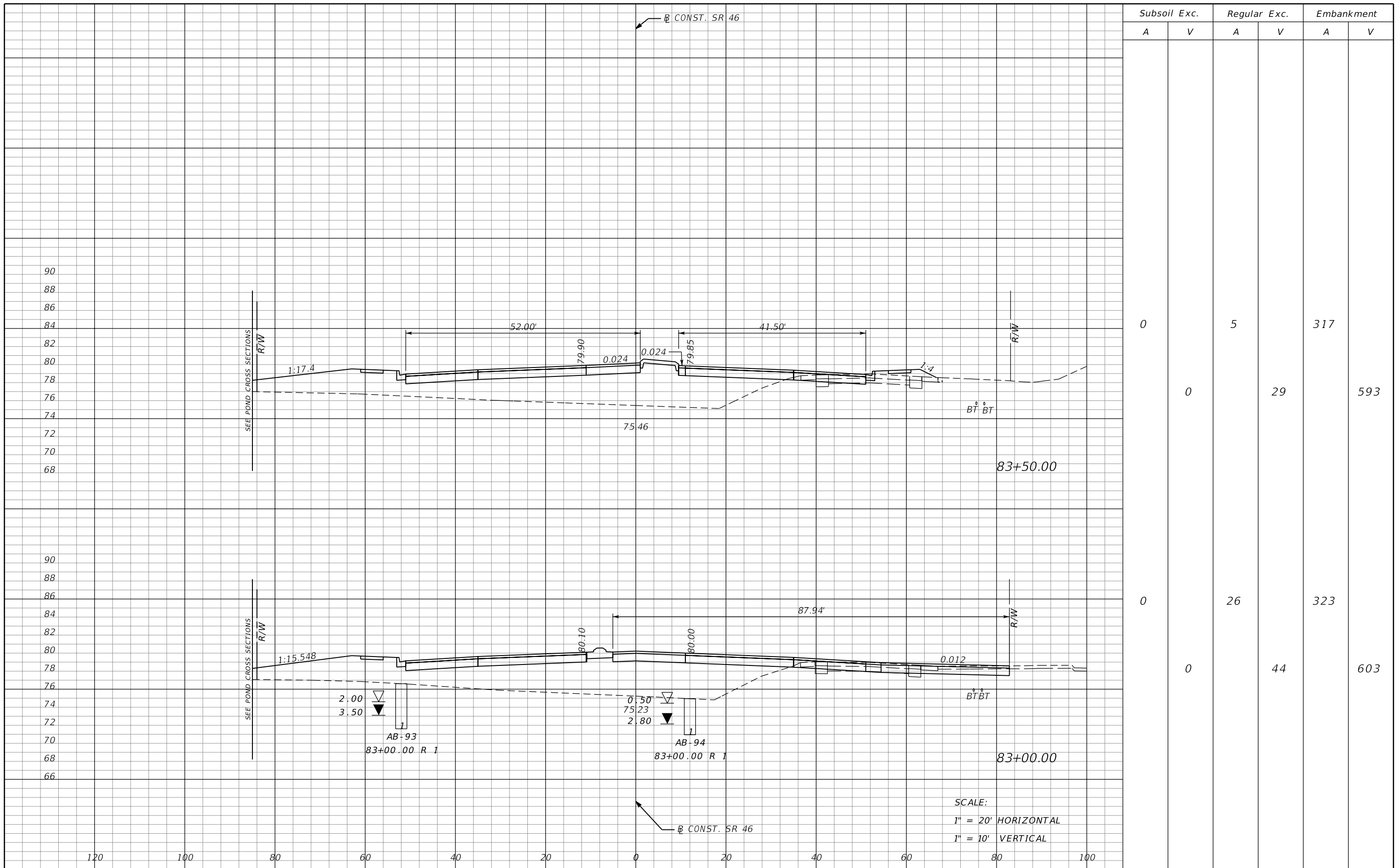
ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**251**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	5	29	317	593
0	0	26	44	323	603

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

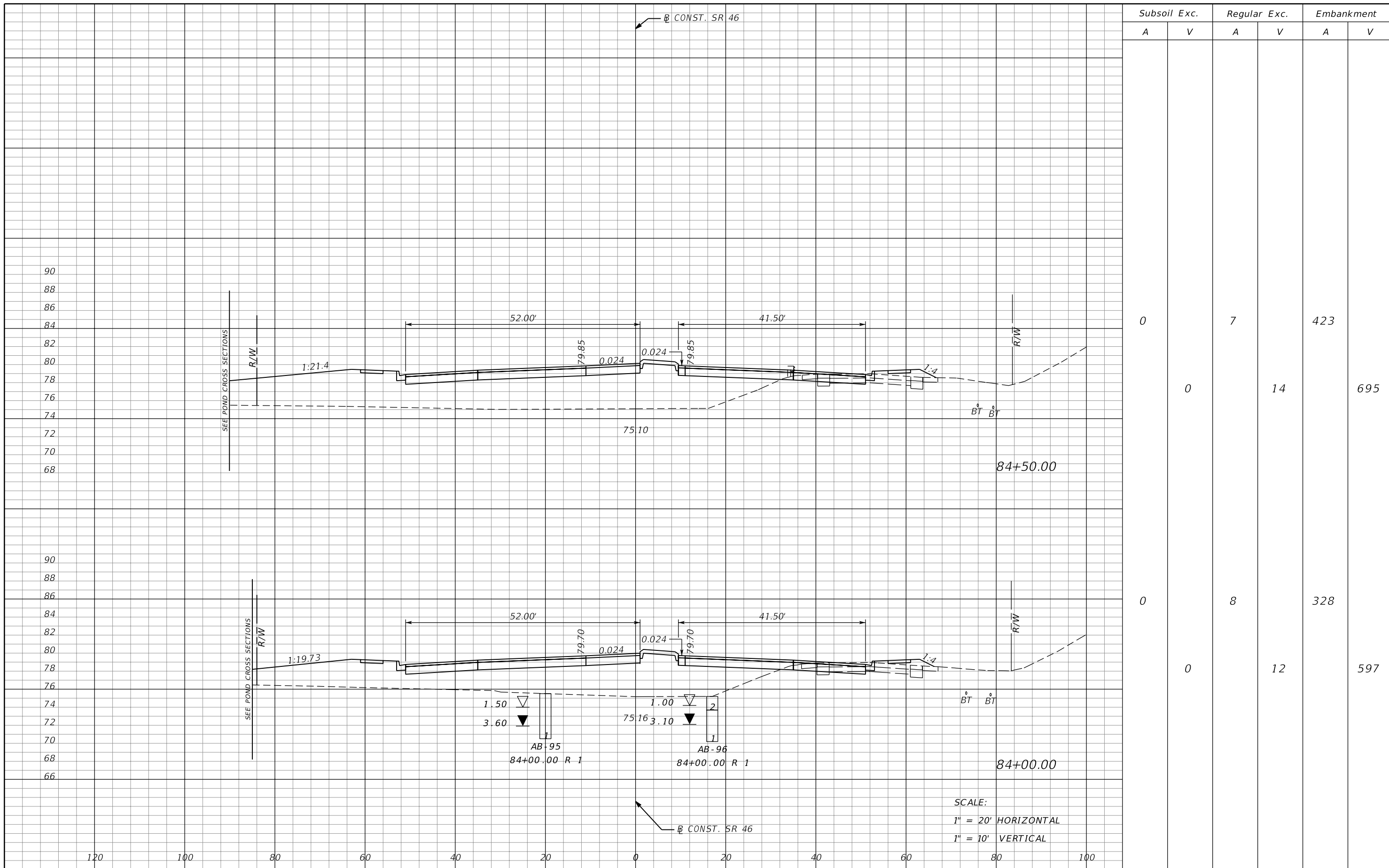
ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

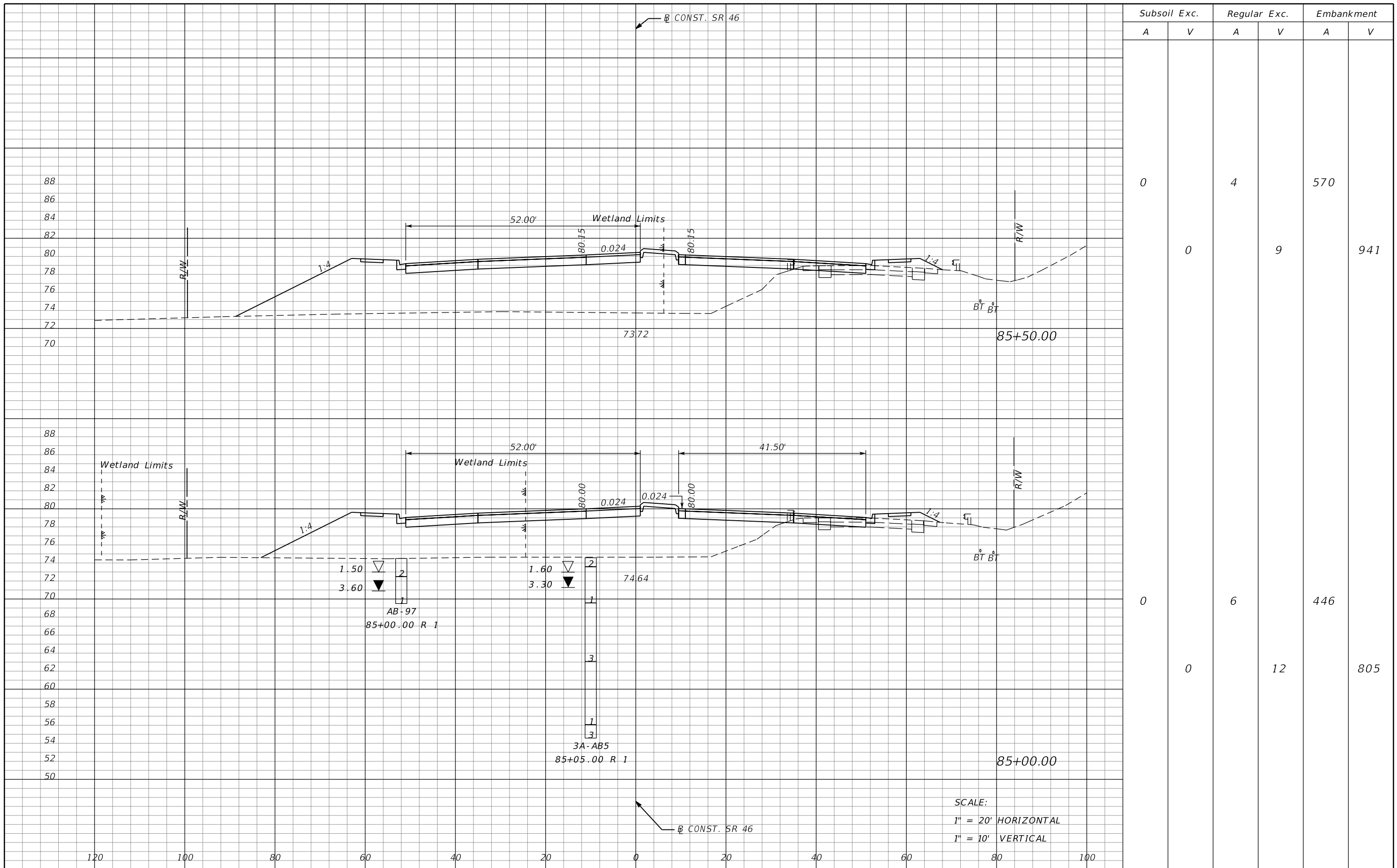
**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**252**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		7		423	
0	0		14		695
0		8		328	
0	0		12		597

REVISIONS				MOFFATT & NICHOL 1025 GREENWOOD BLVD, STE 371 LAKE MARY, FL 32746 PHONE (407) 562-2030 CERT. OF AUTH. NO. 4877	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS</b> <b>SR 46</b>	SHEET NO. <b>253</b>
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				46	LAKE	238275-2-52-01			



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	4	9	570	941
0	0	6	12	446	805

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

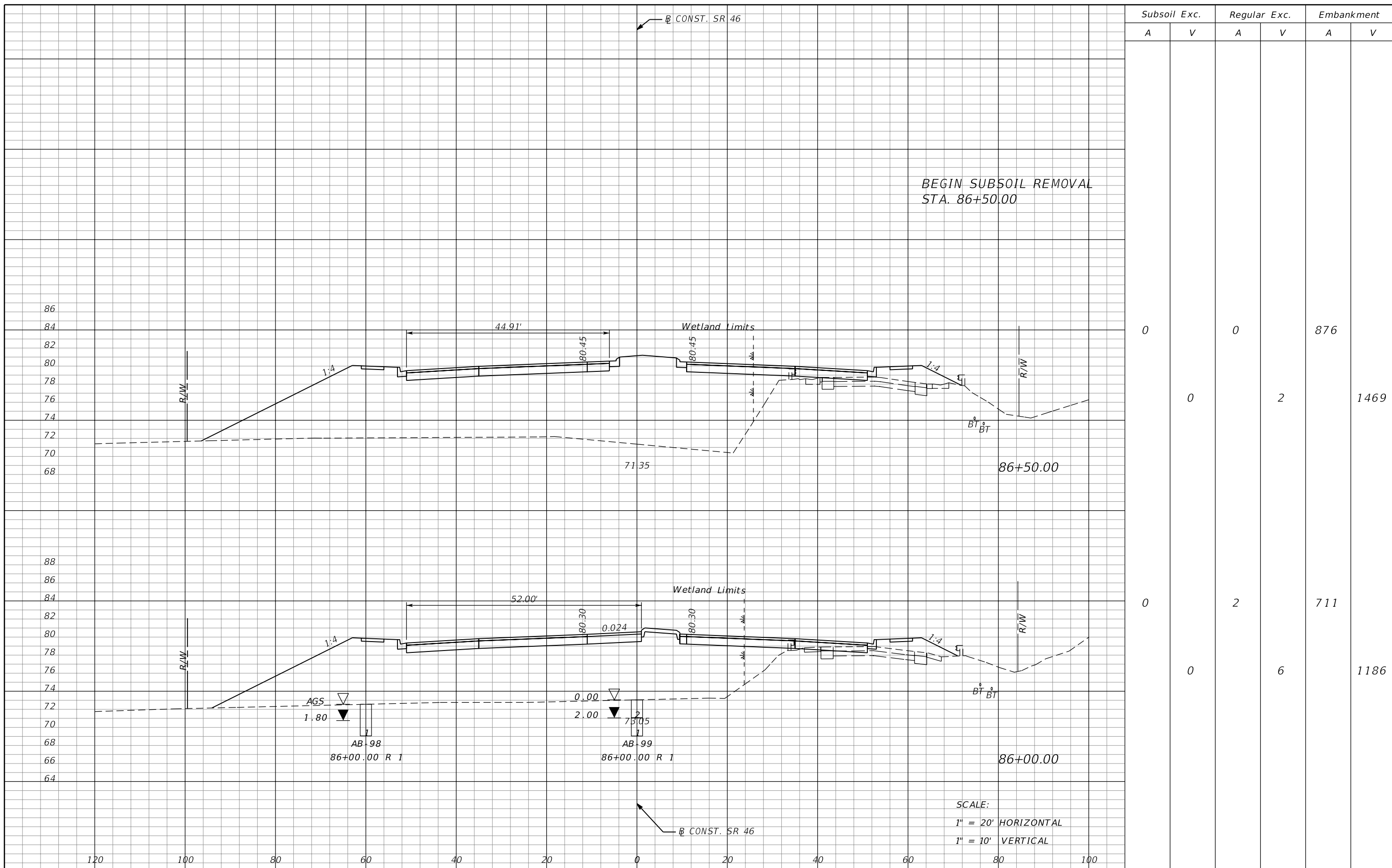
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**254**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	876	0
0	0	2	2	0	1469
0	0	2	6	711	0
0	0	6	6	0	1186

BEGIN SUBSOIL REMOVAL  
STA. 86+50.00

SCALE:  
1" = 20' HORIZONTAL  
1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
1025 GREENWOOD BLVD, STE 371  
LAKE MARY, FL 32746  
PHONE (407) 562-2030  
CERT. OF AUTH. NO. 4877

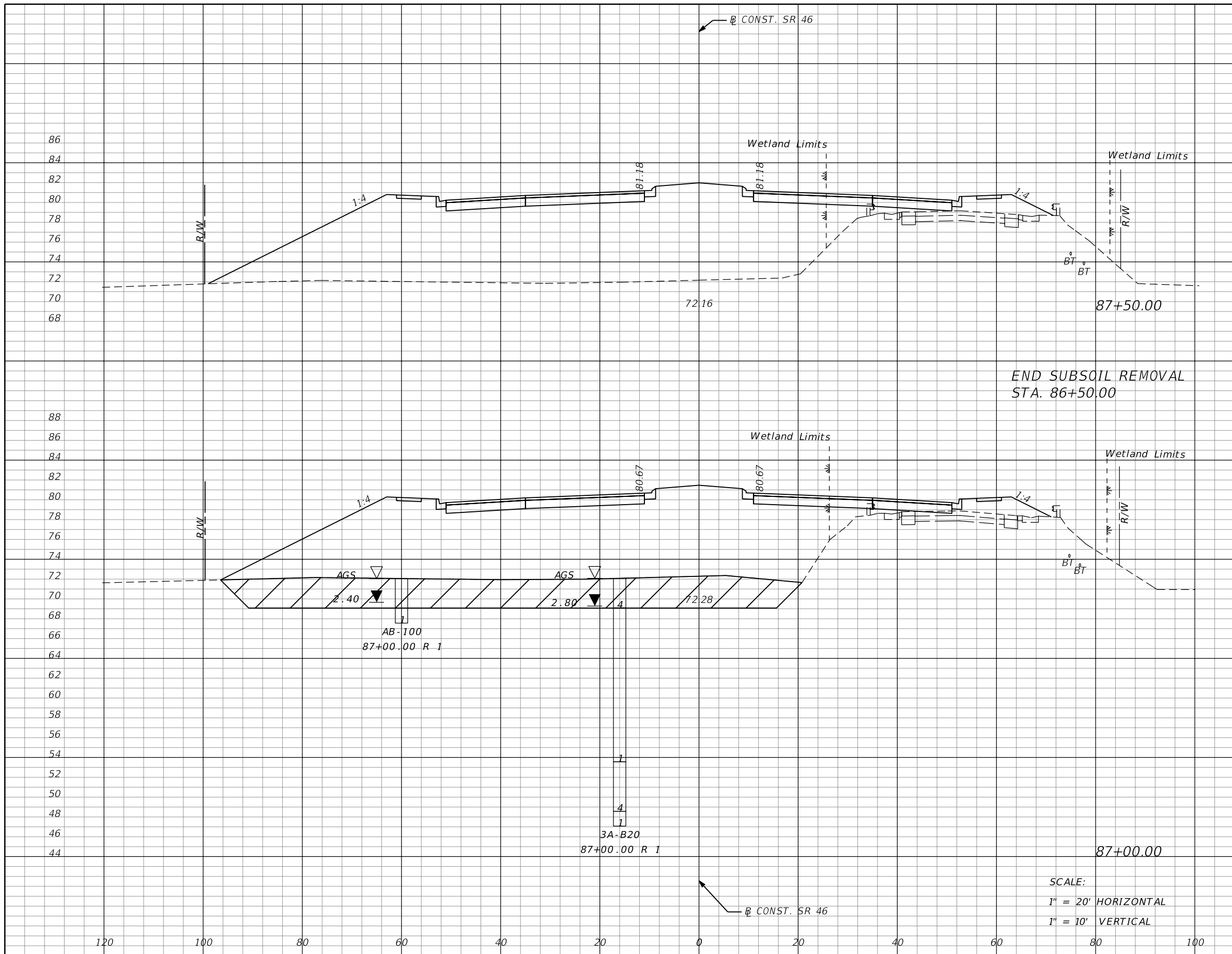
ENGINEER OF RECORD:  
JEFFREY A. MESSENGER, P.E.  
FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET  
NO.  
**255**





Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		0		942	
	310		0		1988
335		0		1205	
	310		0		1927

END SUBSOIL REMOVAL  
STA. 86+50.00

SCALE:  
1" = 20' HORIZONTAL  
1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

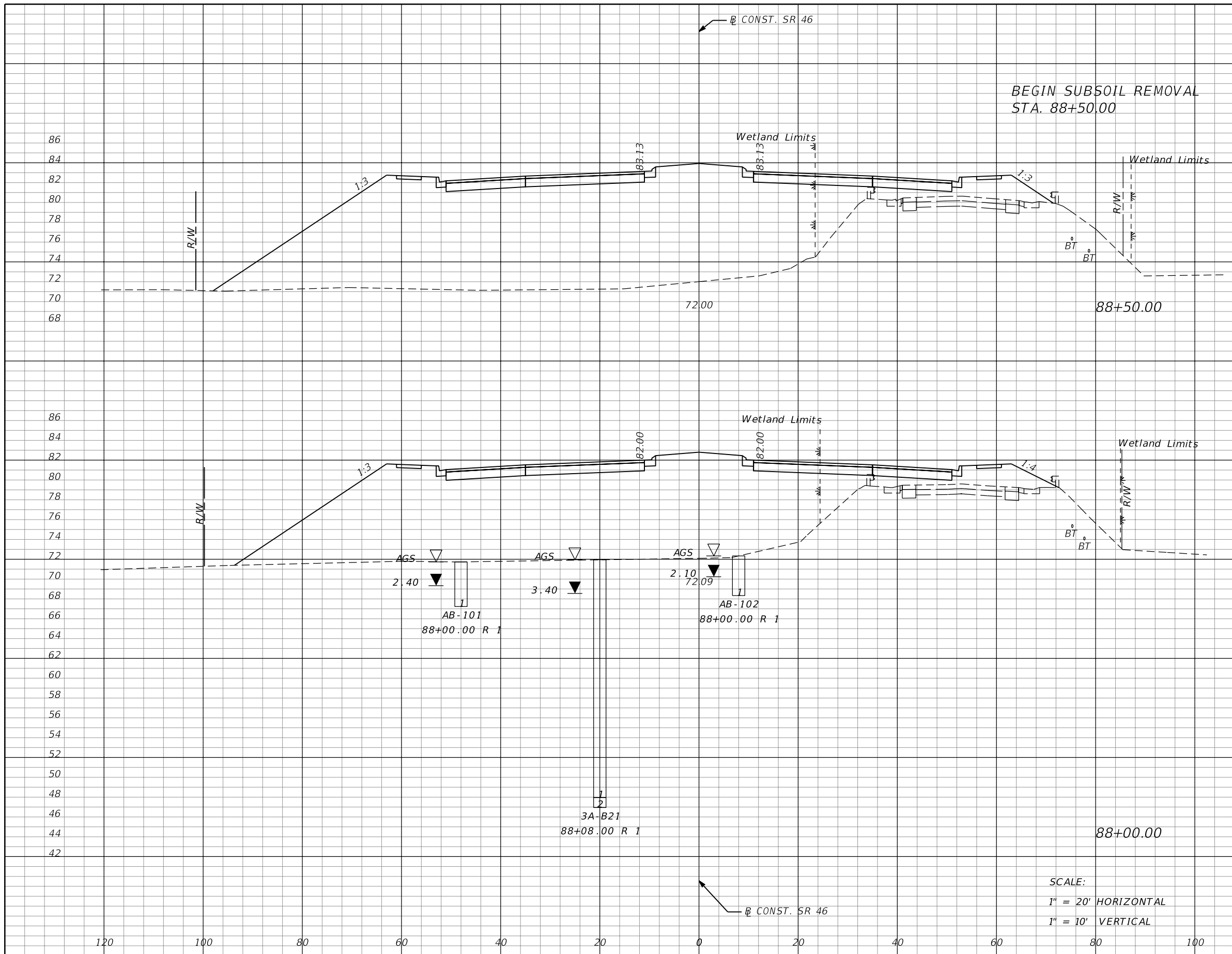
MOFFATT & NICHOL  
1025 GREENWOOD BLVD, STE 371  
LAKE MARY, FL 32746  
PHONE (407) 562-2030  
CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
JEFFREY A. MESSENGER, P.E.  
FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**256**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		0		1216	
	0		0		2071
0		0		1021	
	0		0		1818

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

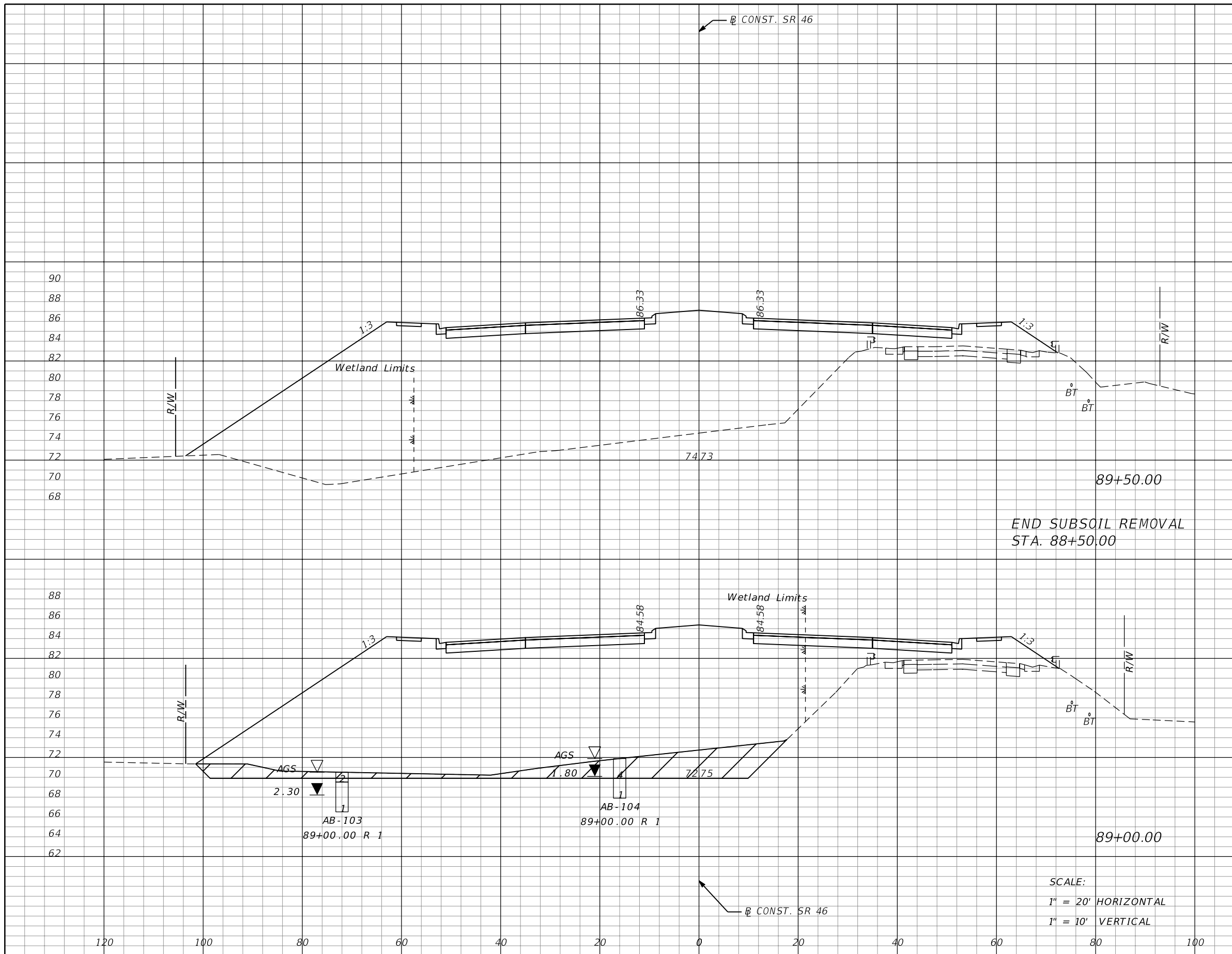
ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**257**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	1475	0
145	0	0	0	2813	0
157	0	0	0	1563	0
145	0	0	0	2573	0

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

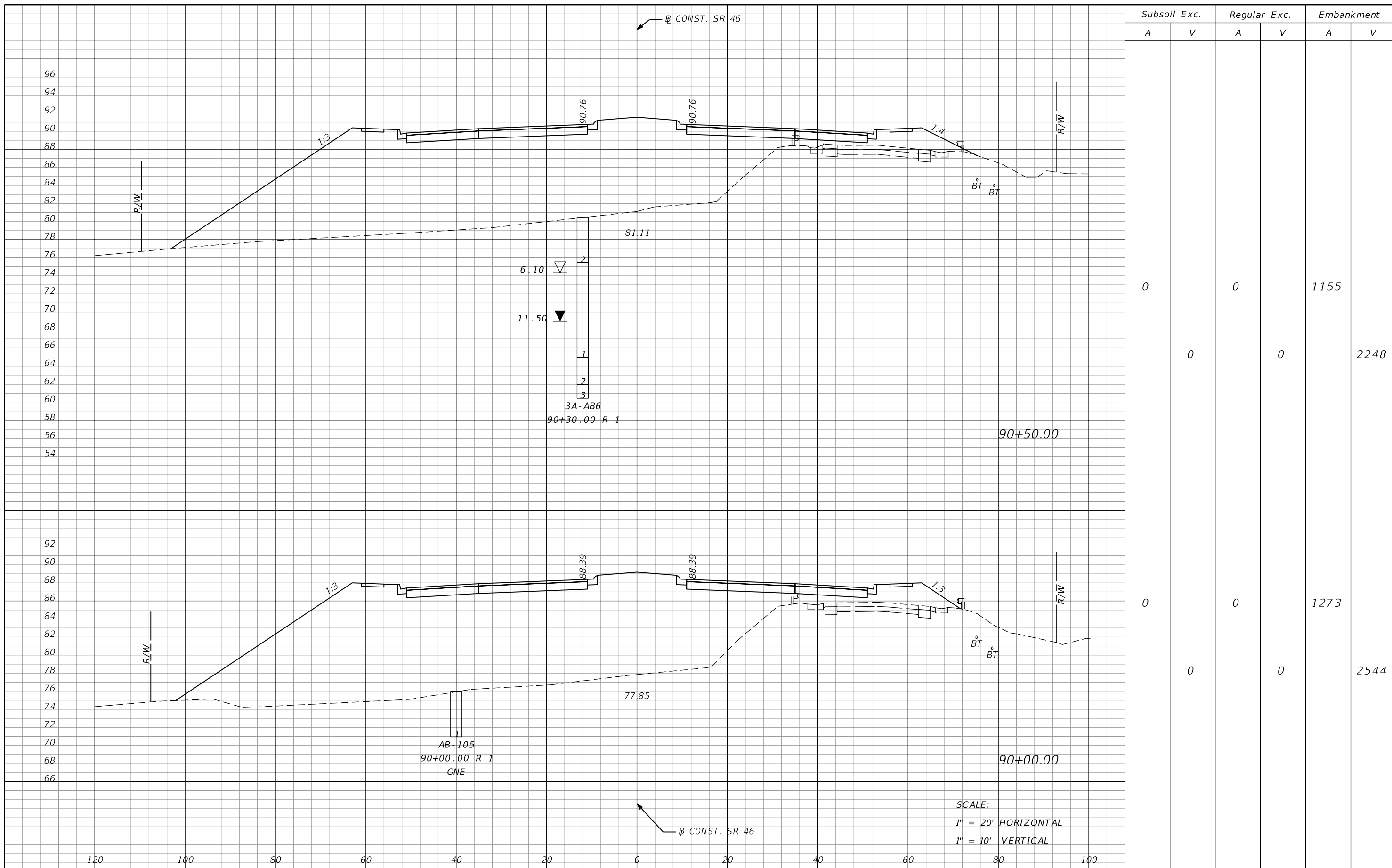
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
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ENGINEER OF RECORD:  
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**258**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		0		1155	
	0		0		2248
0		0		1273	
	0		0		2544

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

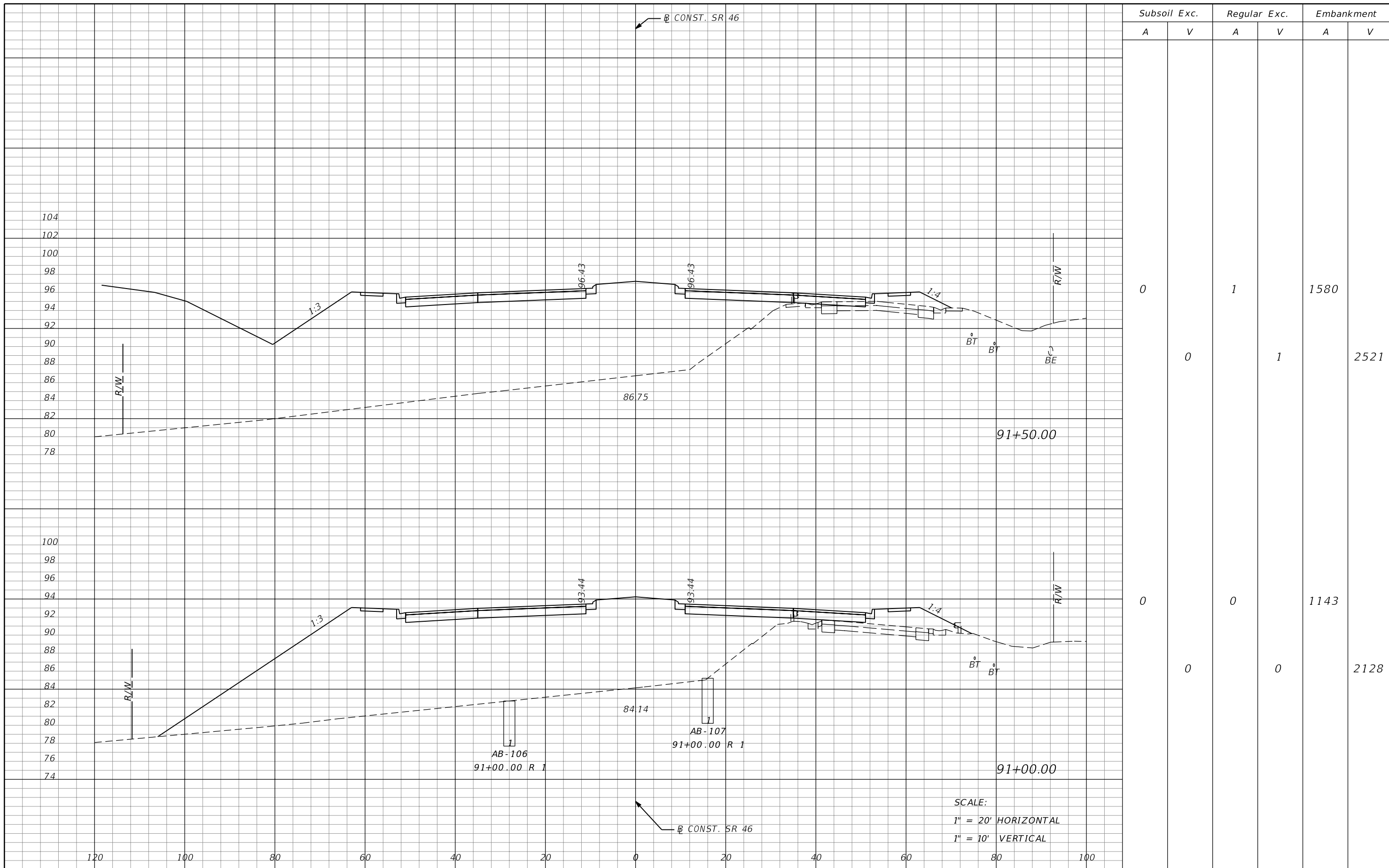
ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**259**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	1	1	1580	2521
0	0	0	0	1143	2128

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

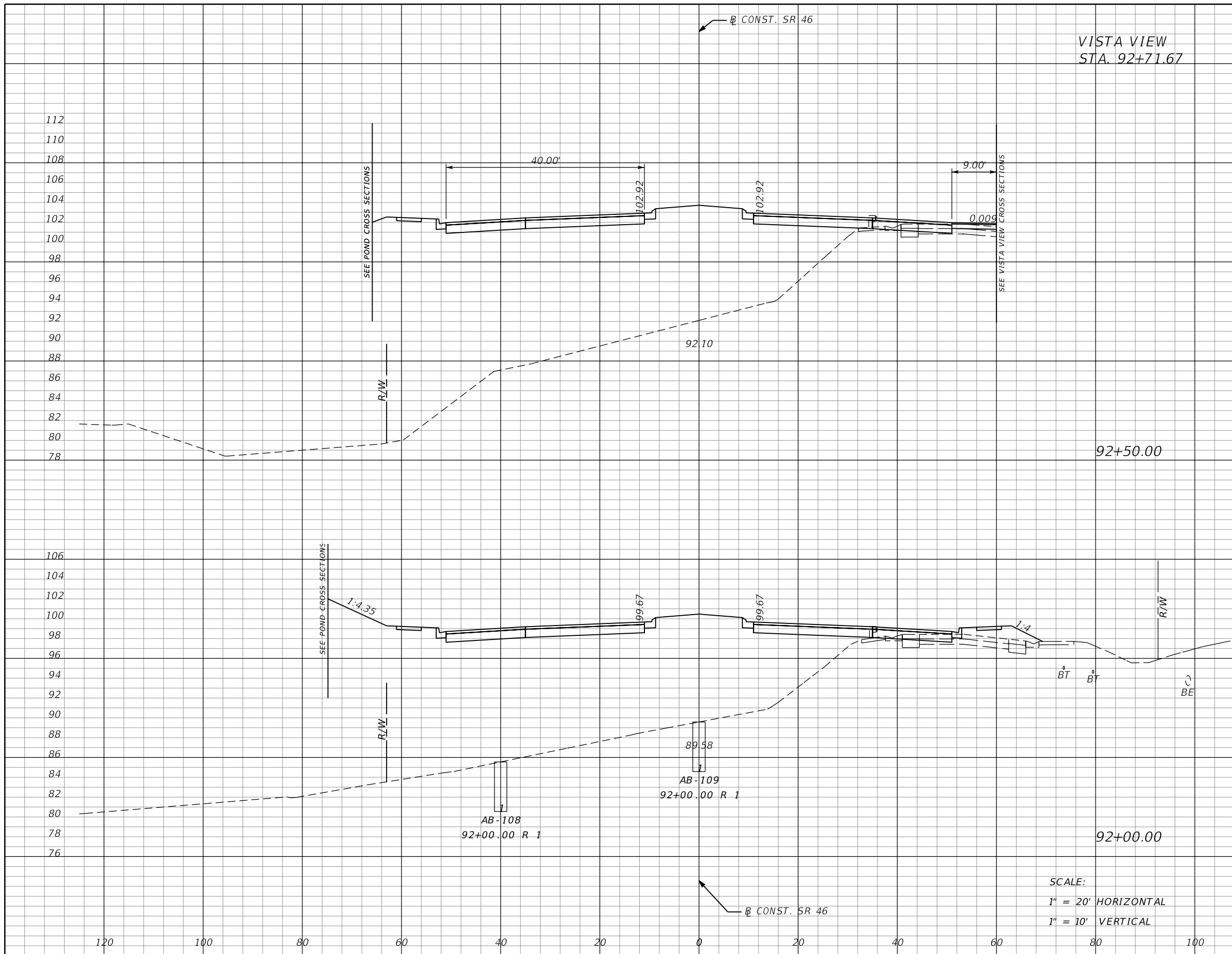
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**260**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		4		1210	
	0		6		2238
0		3		1207	
	0		4		2581

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

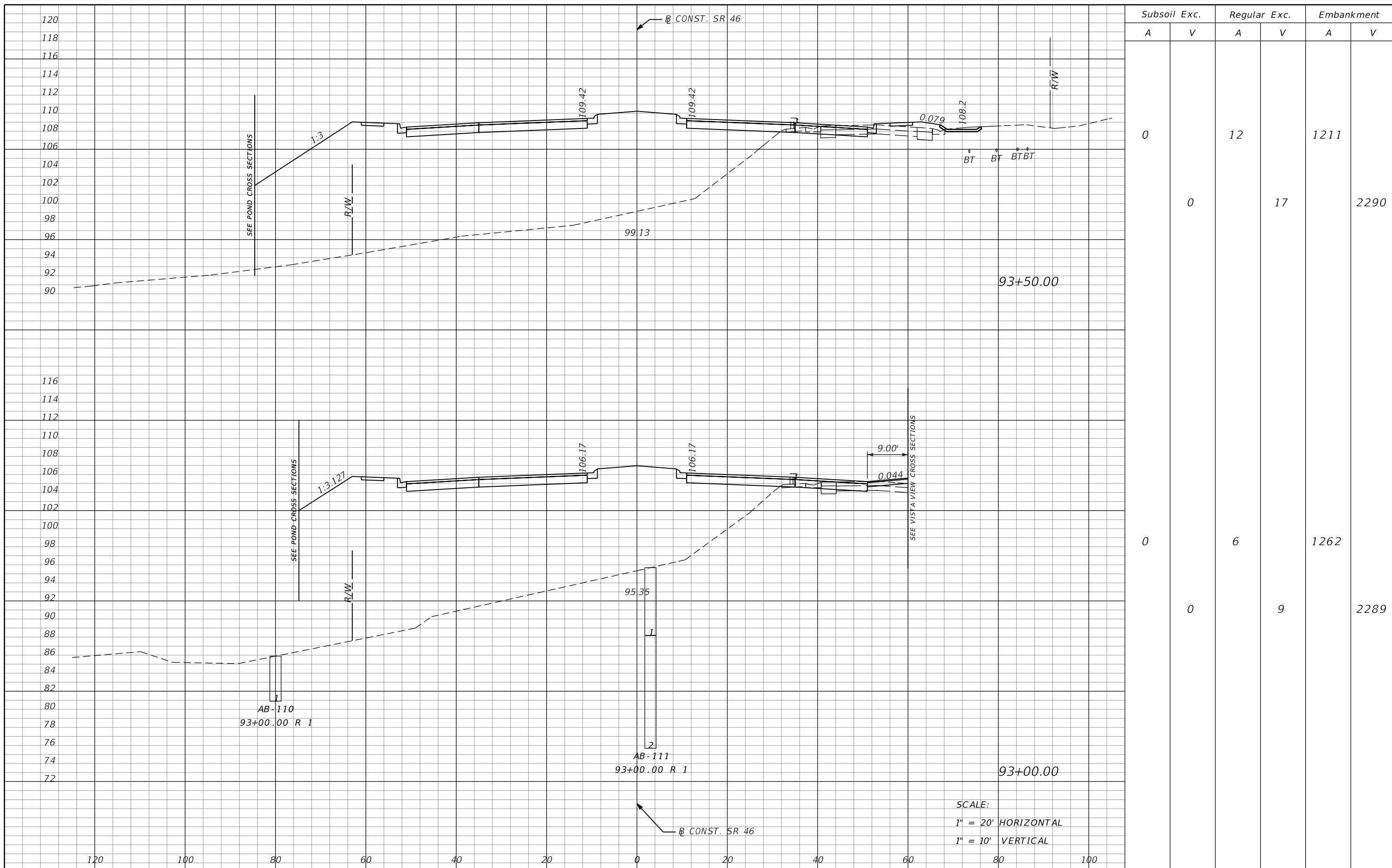
ENGINEER OF RECORD:  
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 FL REGISTRATION NO. 57539

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**261**



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	12	17	1211	2290
0	0	6	9	1262	2289

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

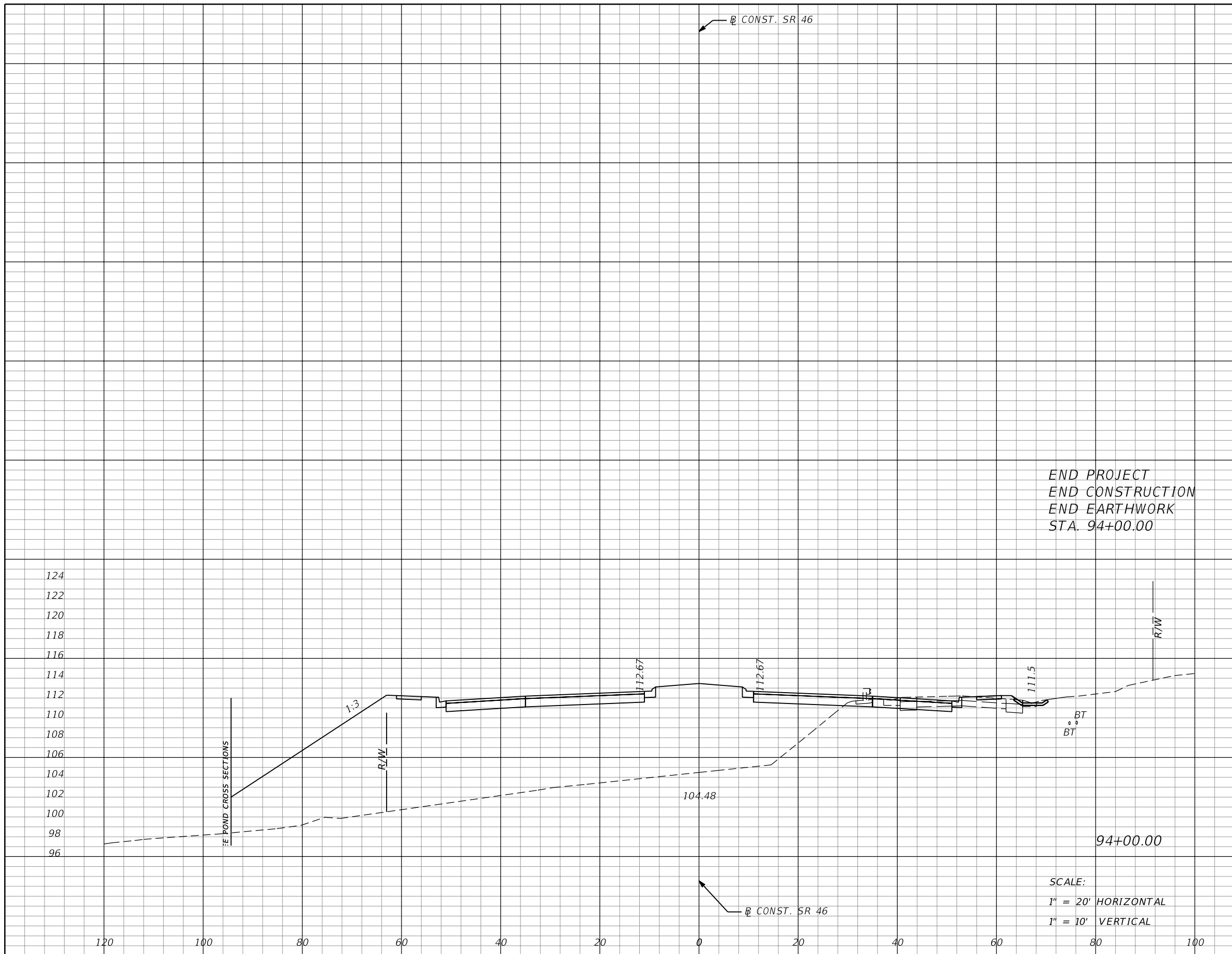
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
 262



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0	0	17	27	976	2025

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
1025 GREENWOOD BLVD, STE 371  
LAKE MARY, FL 32746  
PHONE (407) 562-2030  
CERT. OF AUTH. NO. 4877

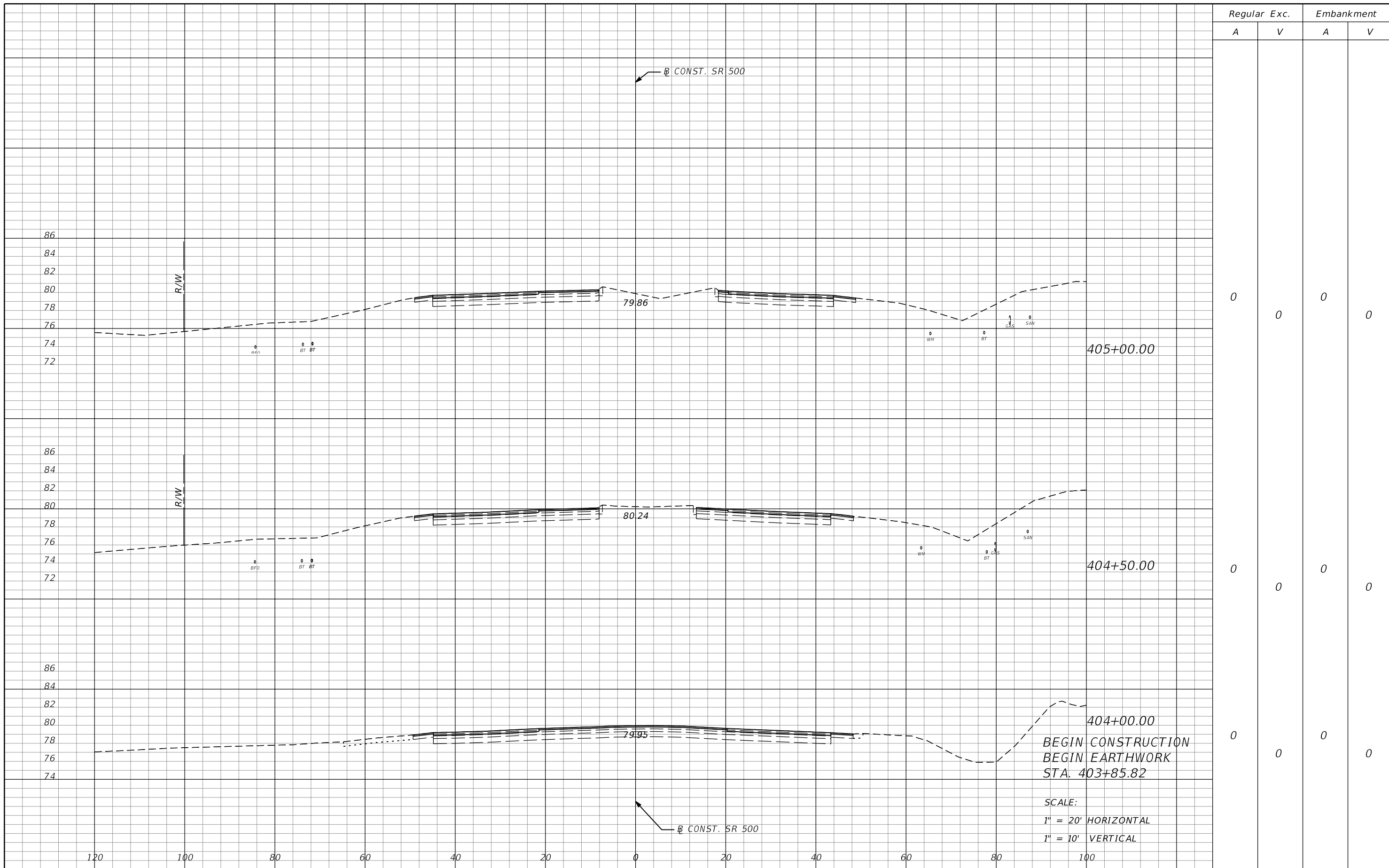
ENGINEER OF RECORD:  
JEFFREY A. MESSENGER, P.E.  
FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 46**

SHEET NO.  
**263**





Regular		Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

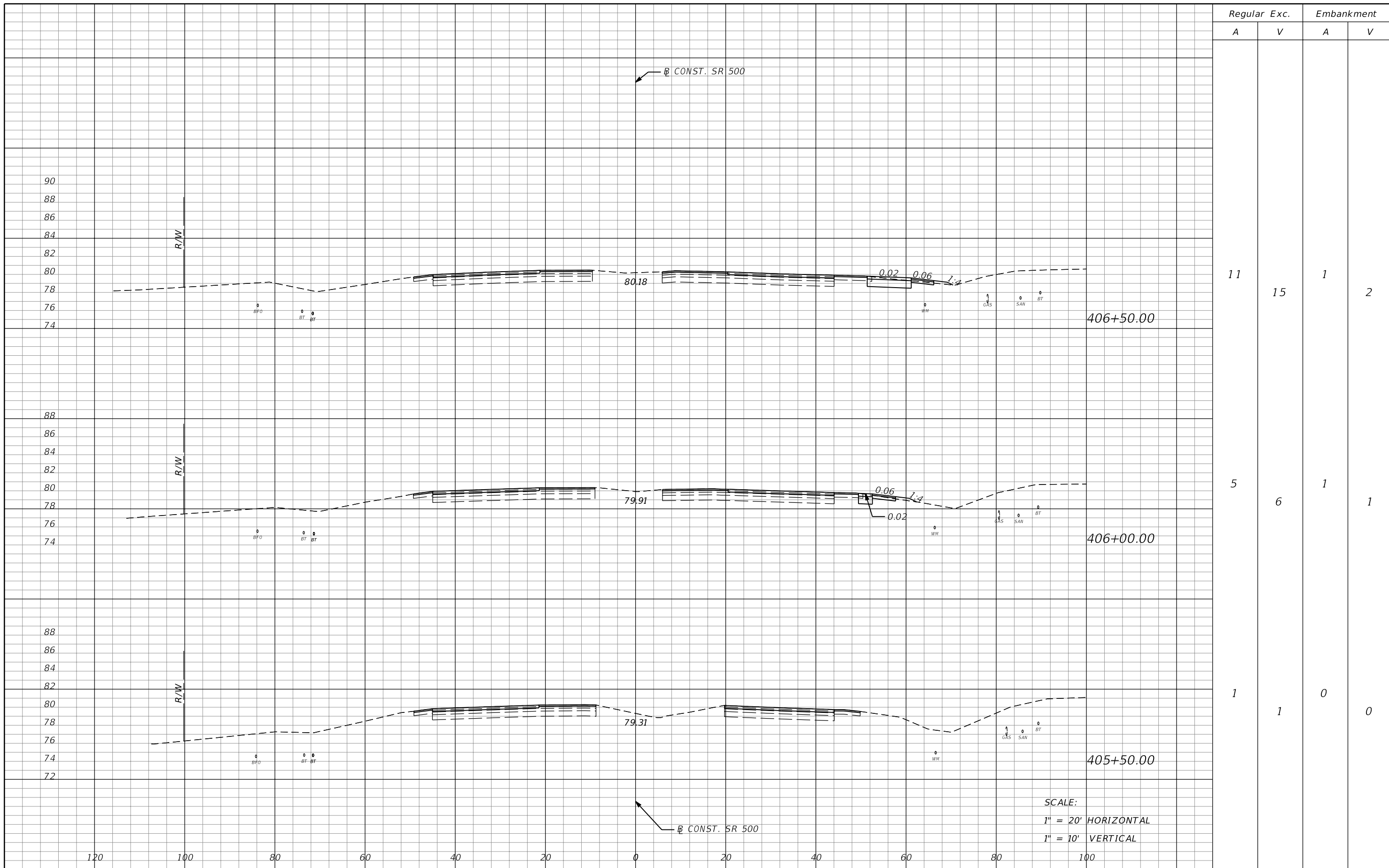
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
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ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

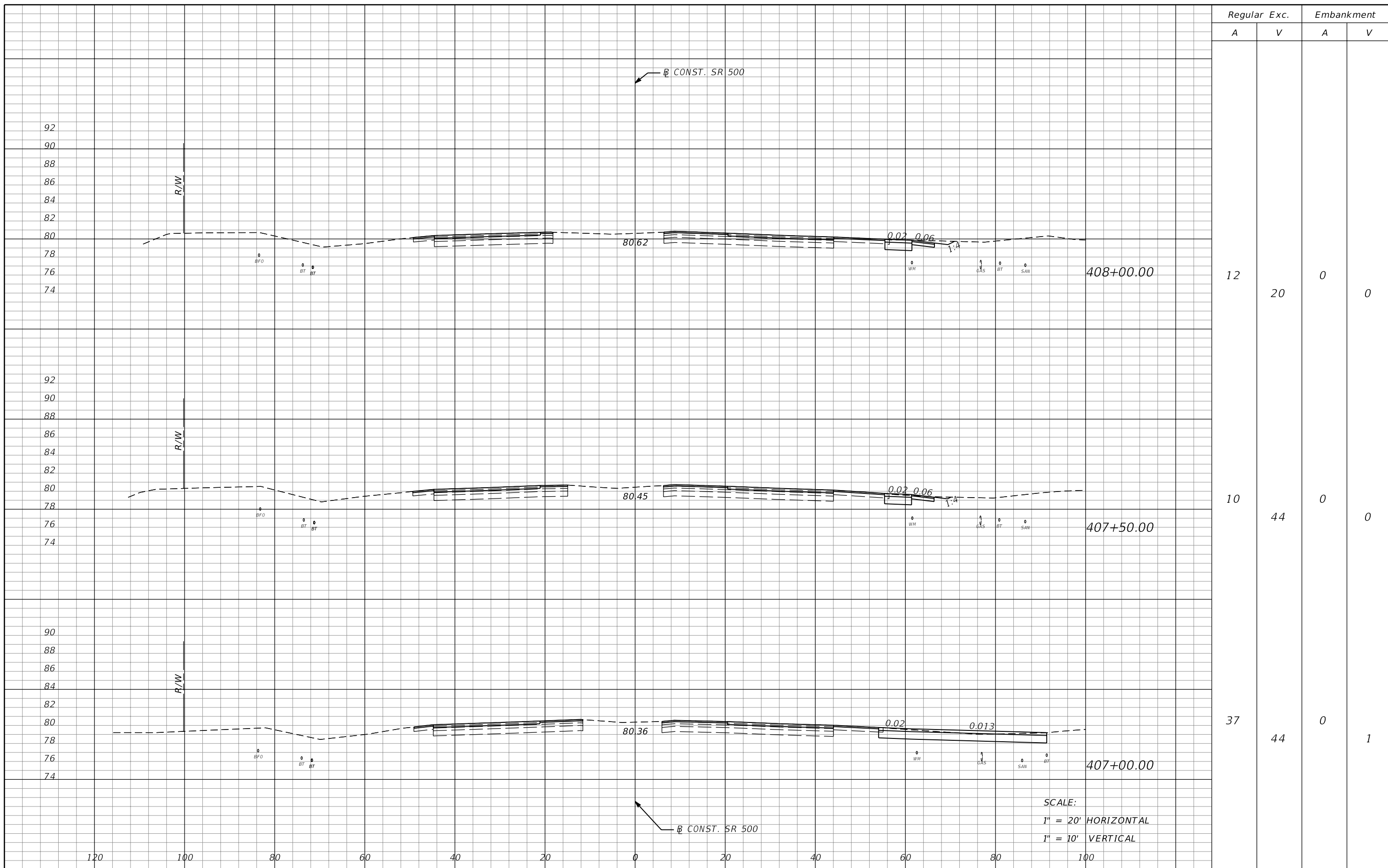
**CROSS SECTIONS**  
**SR 500**

SHEET NO.  
 264



SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

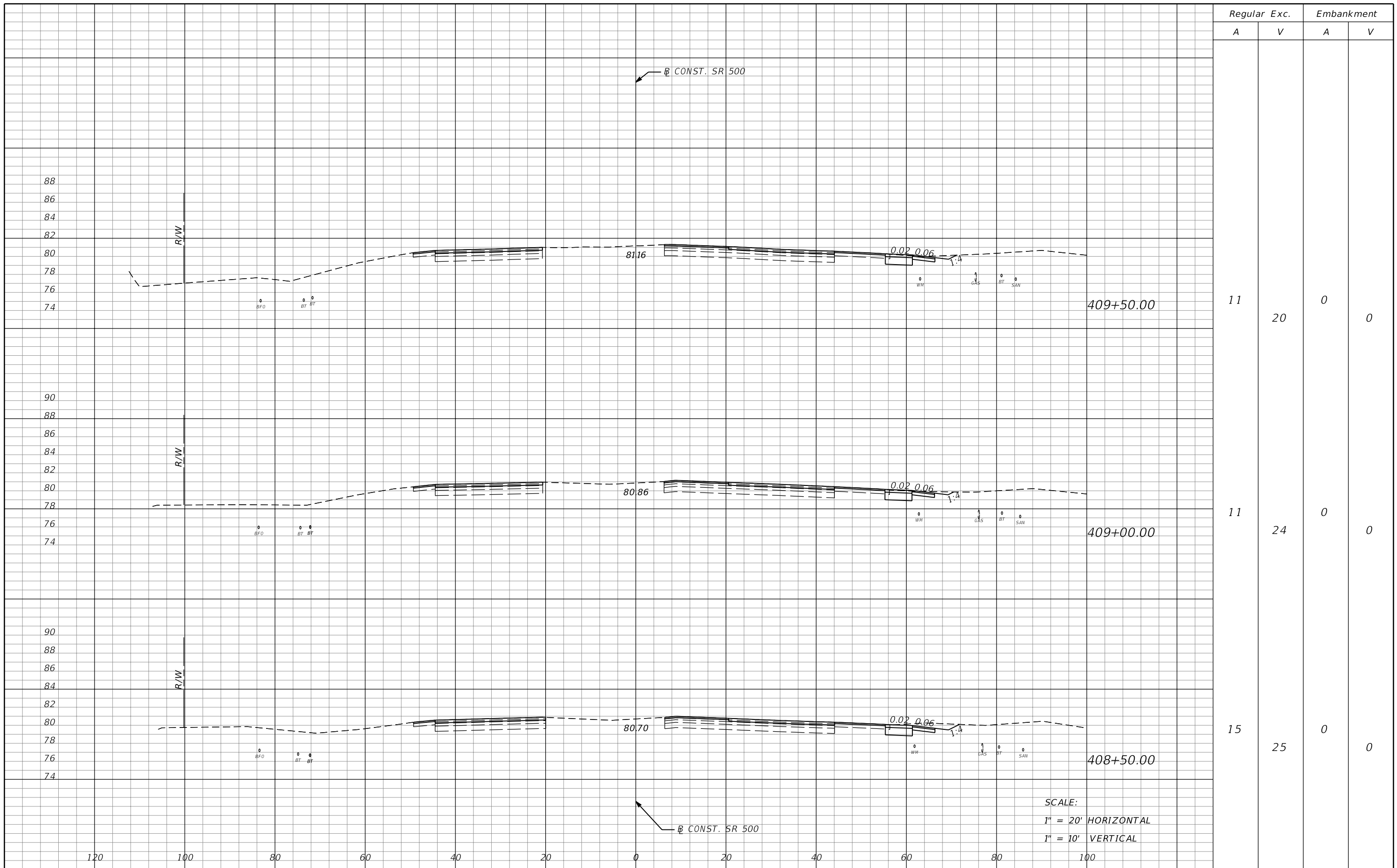
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DATE	DESCRIPTION	DATE	DESCRIPTION																	
				ENGINEER OF RECORD: JEFFREY A. MESSENGER, P.E. FL REGISTRATION NO. 57539		ROAD NO. <b>46</b>	COUNTY <b>LAKE</b>	FINANCIAL PROJECT ID <b>238275-2-52-01</b>												



Regular		Exc.		Embankment	
A	V	A	V	A	V
12	20	0	0	0	0
10	44	0	0	0	0
37	44	0	1	0	1

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

<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> </td> </tr> </tbody> </table>				REVISIONS		DATE	DESCRIPTION			MOFFATT & NICHOL 1025 GREENWOOD BLVD, STE 371 LAKE MARY, FL 32746 PHONE (407) 562-2030 CERT. OF AUTH. NO. 4877		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		<b>CROSS SECTIONS</b> <b>SR 500</b>		SHEET NO. 266
REVISIONS																
DATE	DESCRIPTION															
ENGINEER OF RECORD: JEFFREY A. MESSENGER, P.E. FL REGISTRATION NO. 57539		ROAD NO. 46	COUNTY LAKE	FINANCIAL PROJECT ID 238275-2-52-01												

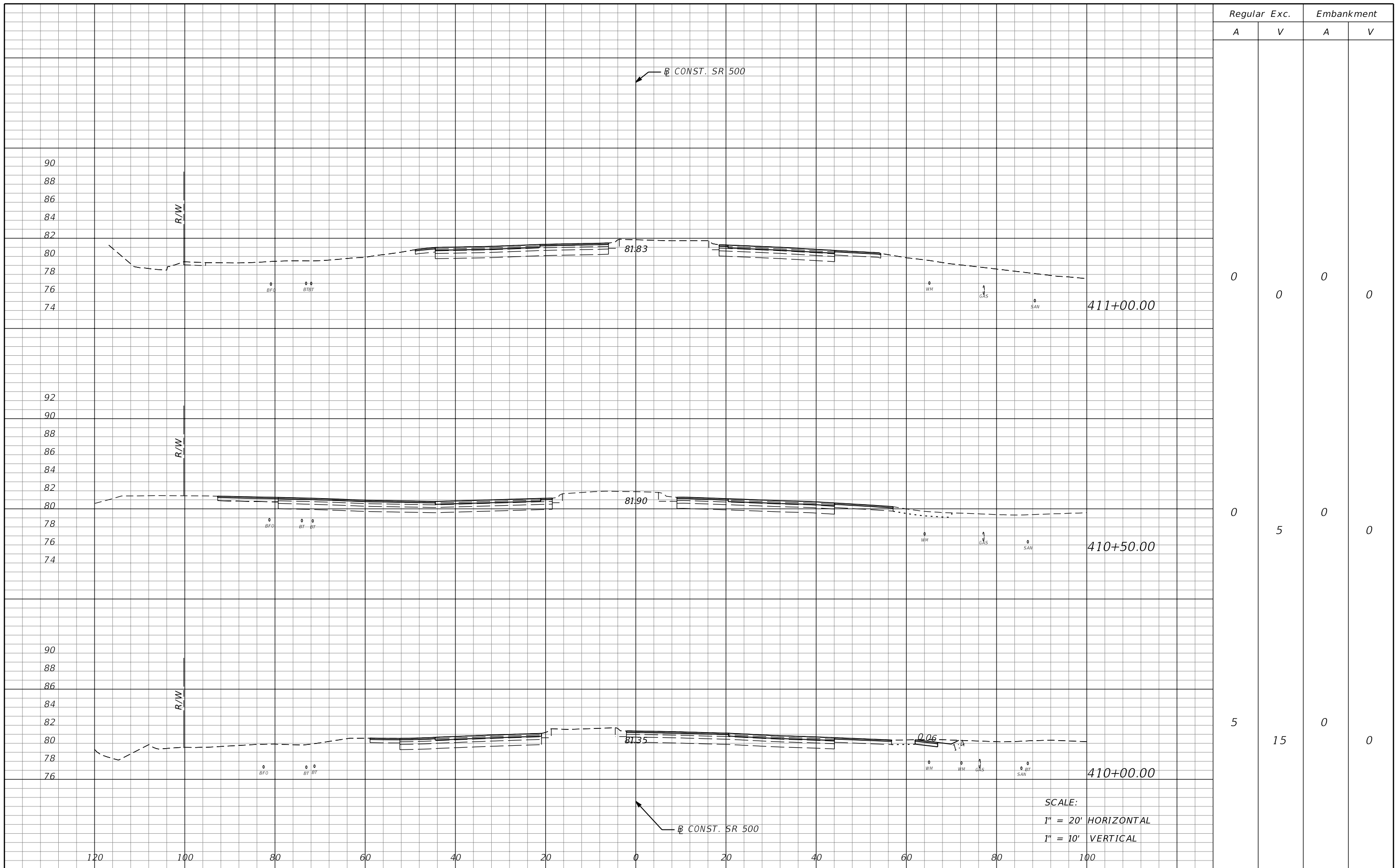


SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS</b> <b>SR 500</b>	SHEET NO.  267
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				46	LAKE	238275-2-52-01		

MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539



Regular		Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	0	0
0	5	0	0	0	0
5	15	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

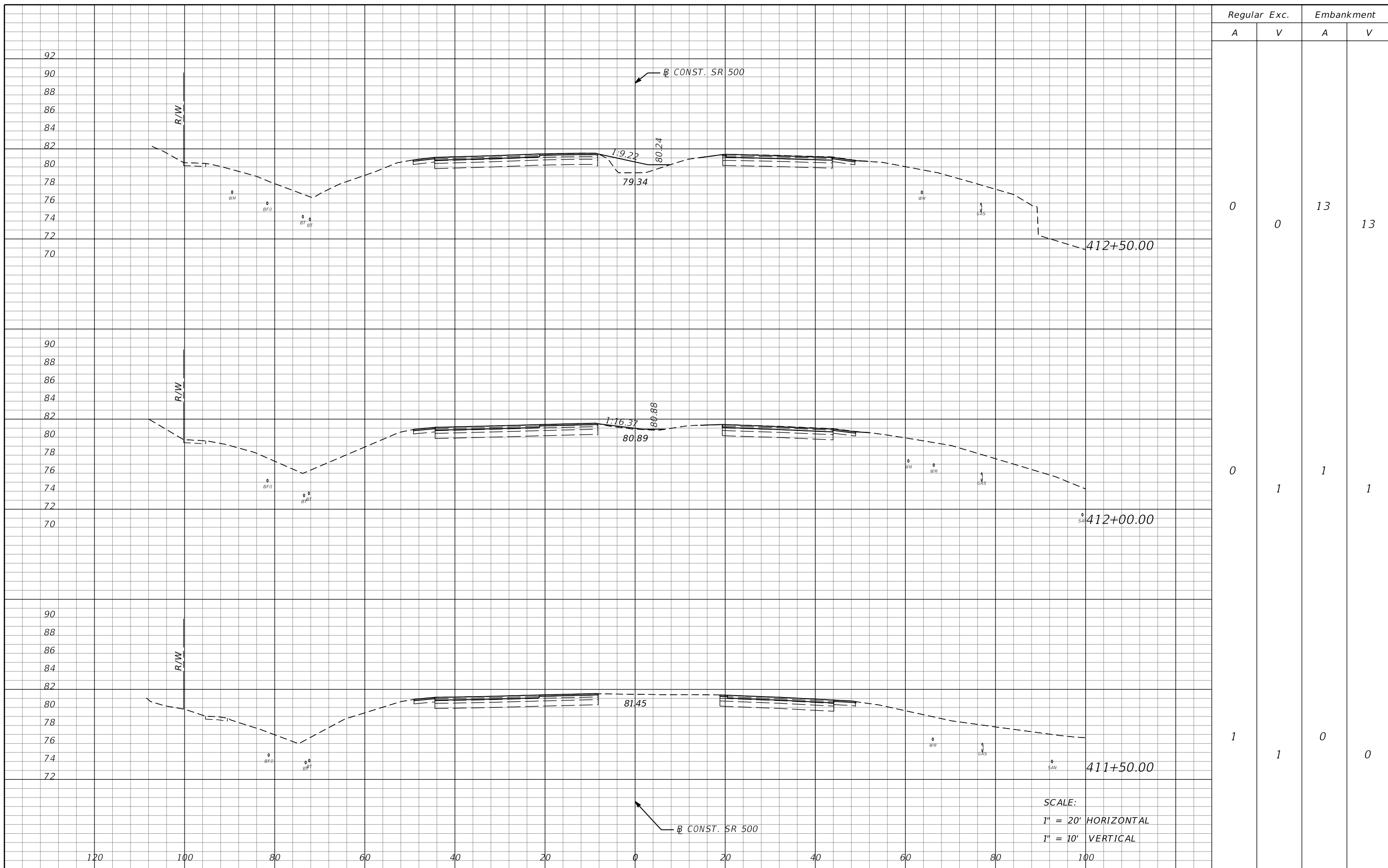
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
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ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 500**

SHEET NO.  
 268



SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

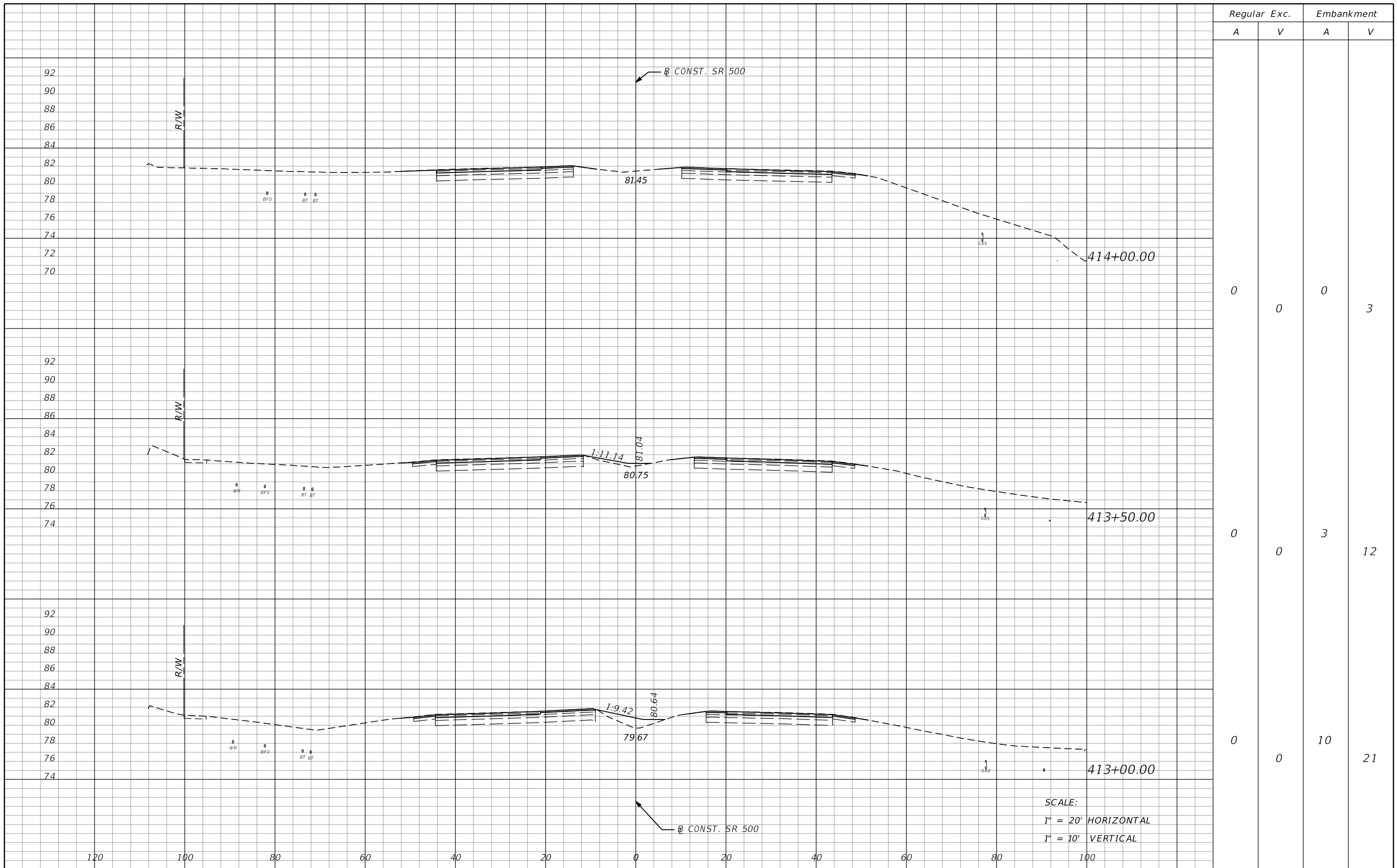
MOFFATT & NICHOL  
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ENGINEER OF RECORD:  
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 500**

SHEET NO.  
269



Regular		Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	0	3
0	0	3	0	3	12
0	0	10	0	10	21

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

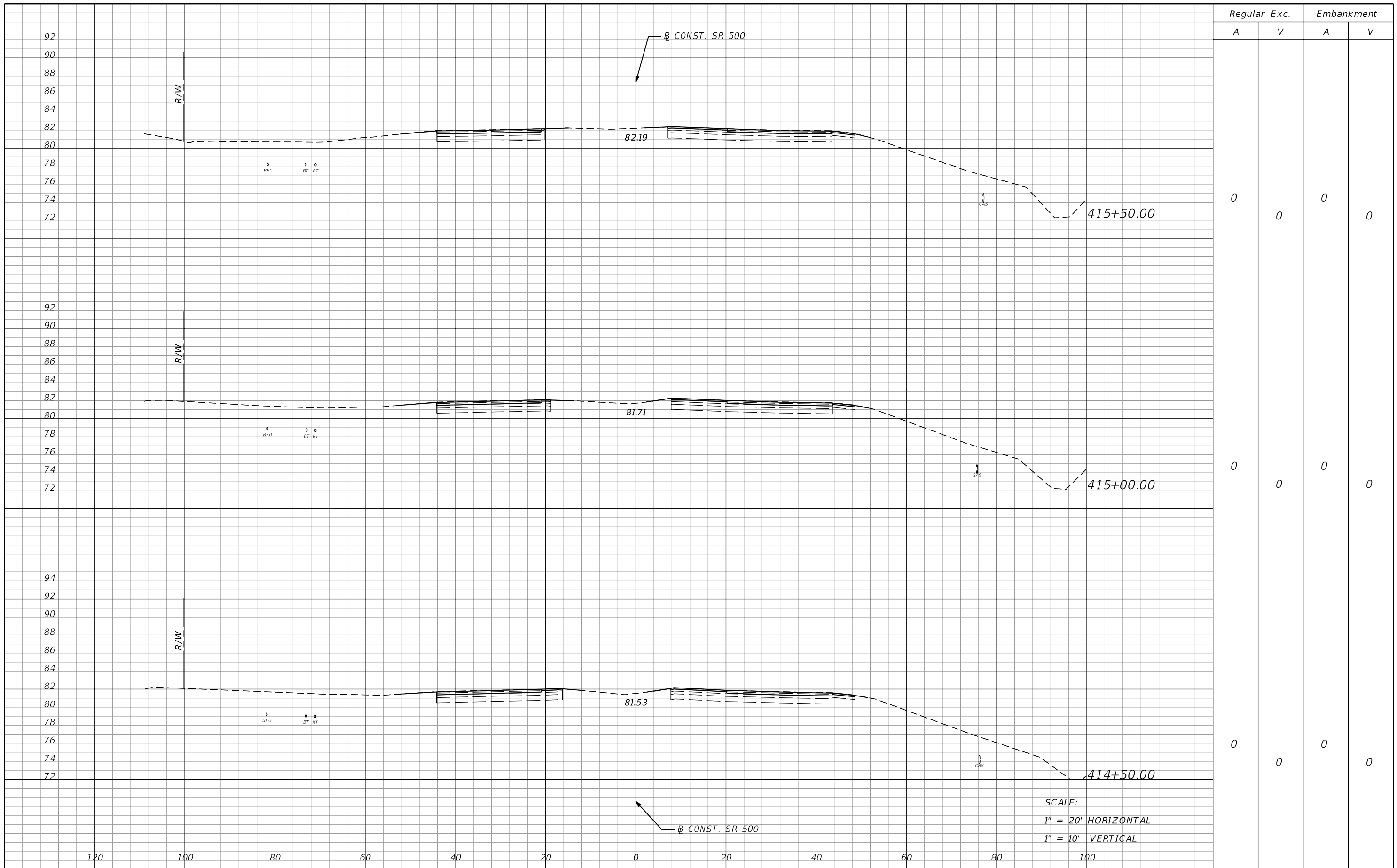
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
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ENGINEER OF RECORD:  
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 500**

SHEET NO.  
 270



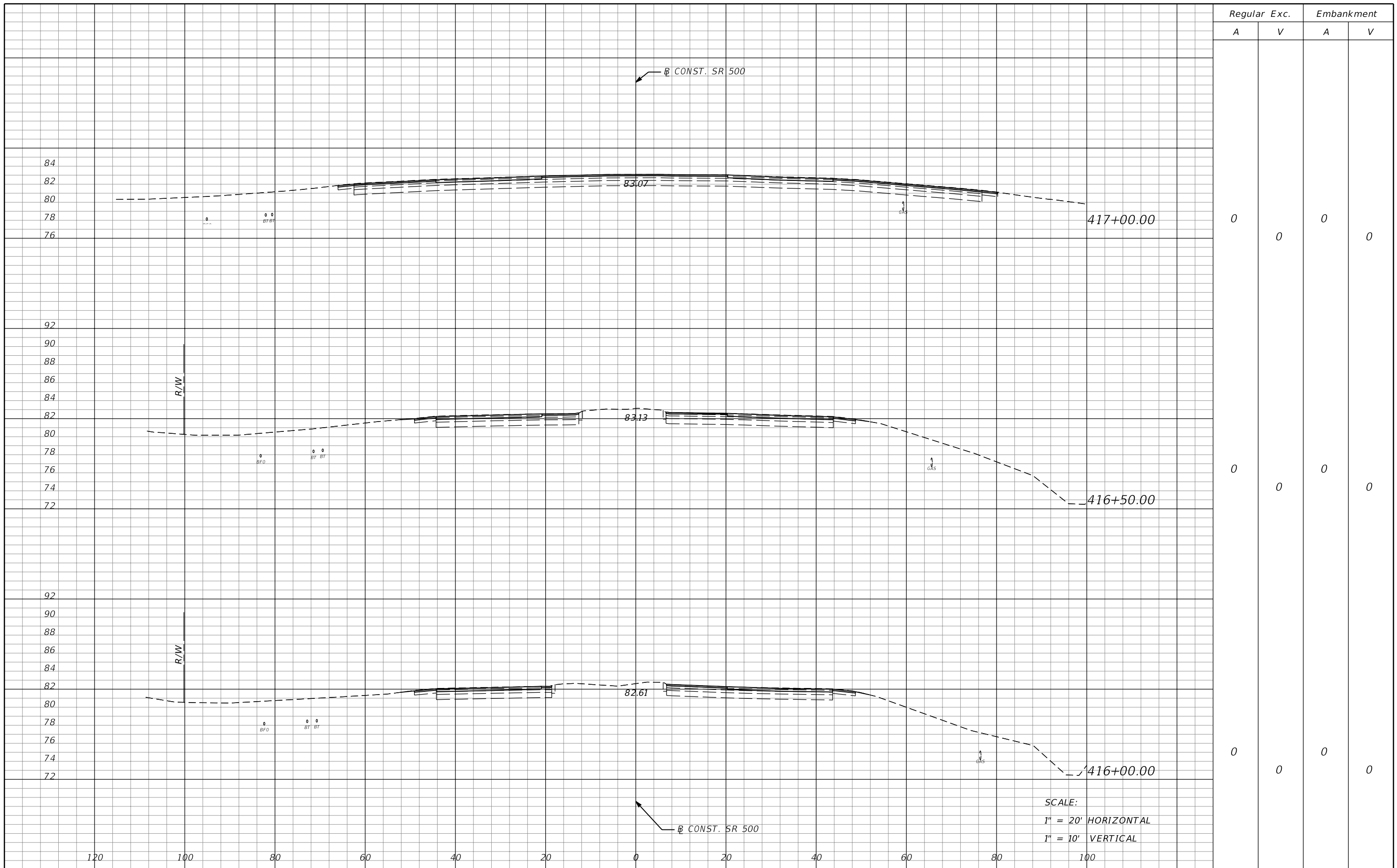
SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS SR 500	SHEET NO. 271
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				46	LAKE	238275-2-52-01		

MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
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ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539





Regular		Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

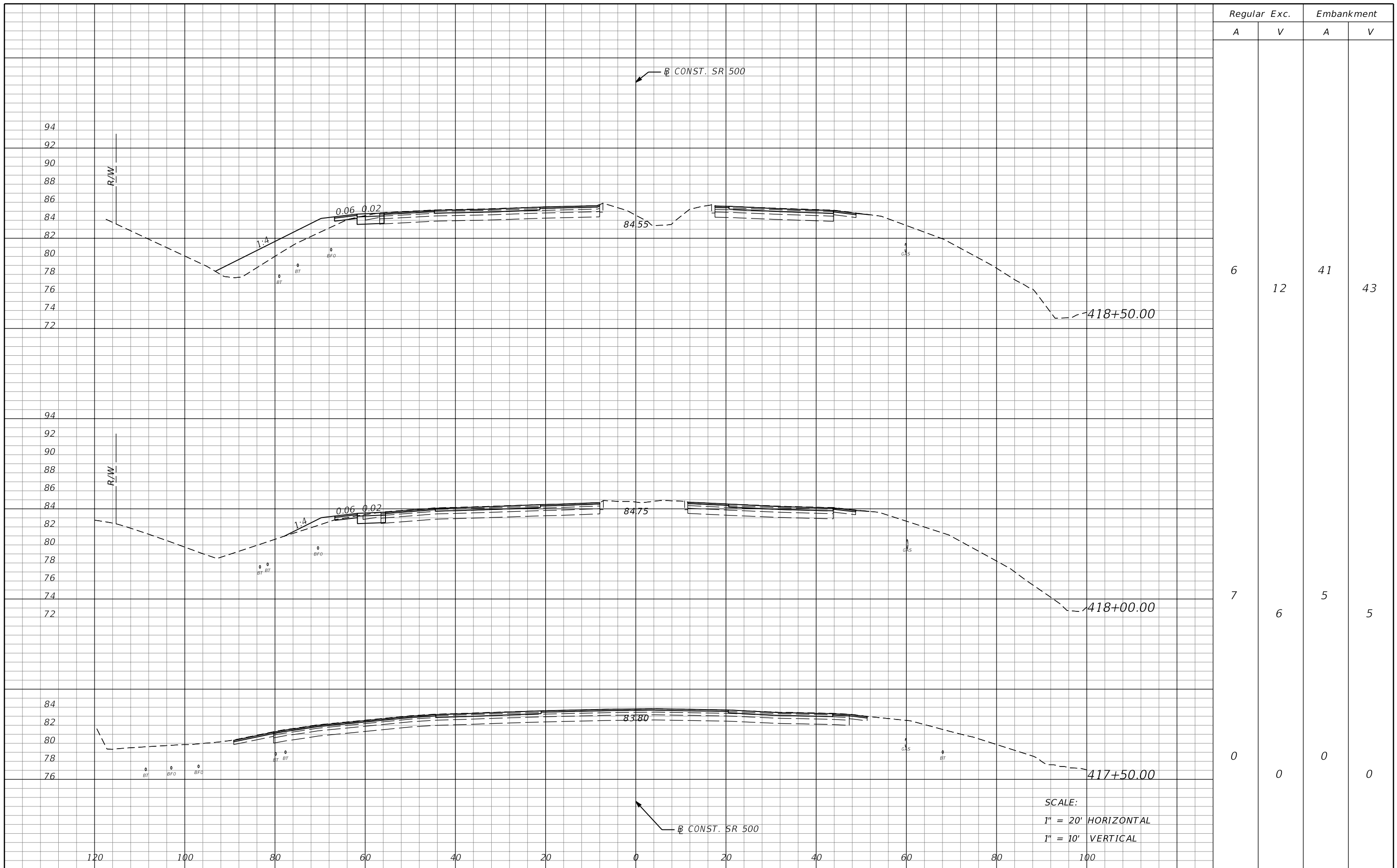
MOFFATT & NICHOL  
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

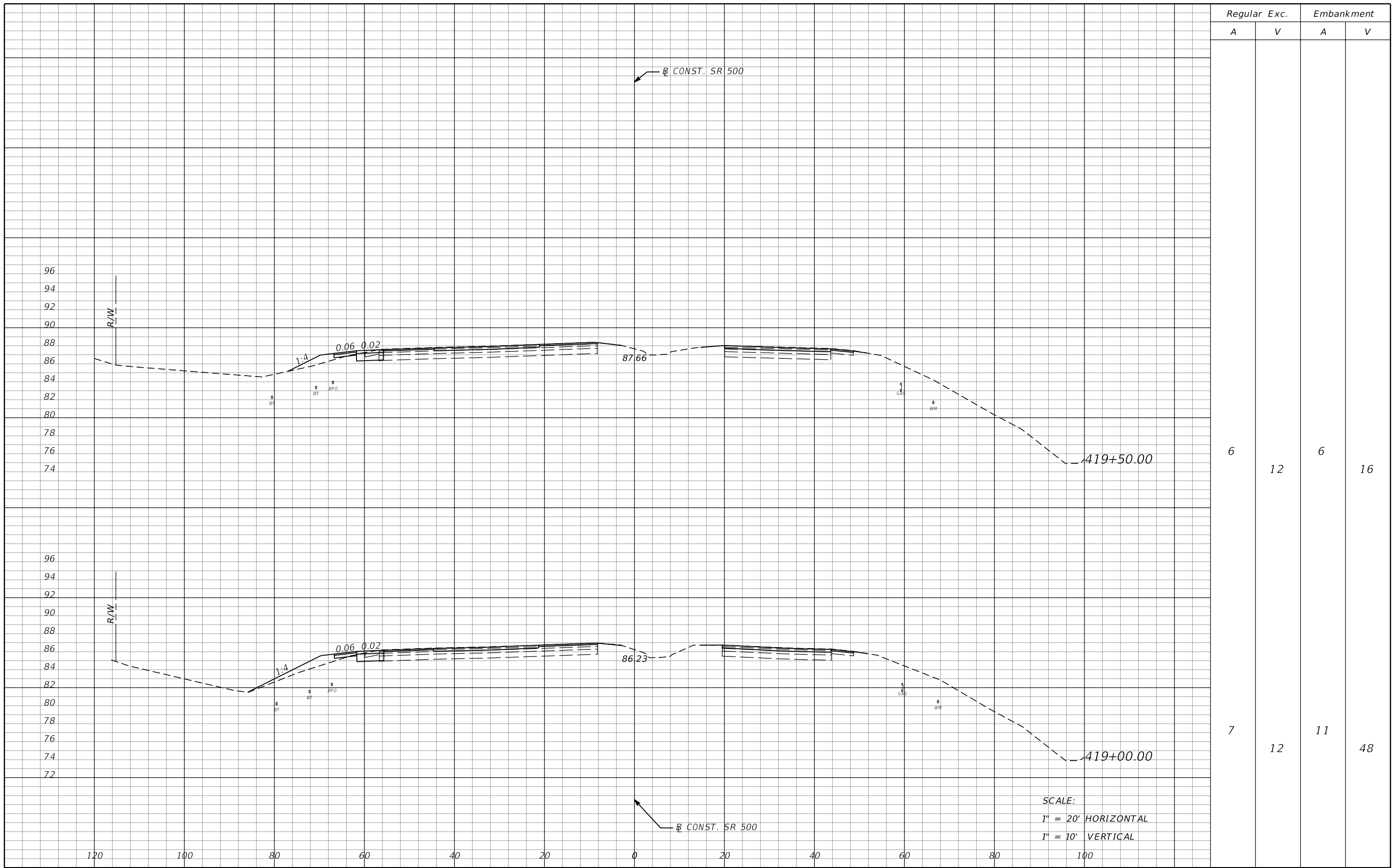
**CROSS SECTIONS**  
**SR 500**

SHEET NO.  
 272



SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS				MOFFATT & NICHOL 1025 GREENWOOD BLVD, STE 371 LAKE MARY, FL 32746 PHONE (407) 562-2030 CERT. OF AUTH. NO. 4877			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS</b> <b>SR 500</b>		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				ROAD NO.	COUNTY	FINANCIAL PROJECT ID			273
					46	LAKE	238275-2-52-01					



Regular		Exc.		Embankment	
A	V	A	V	A	V
6	12	6	16	7	48

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

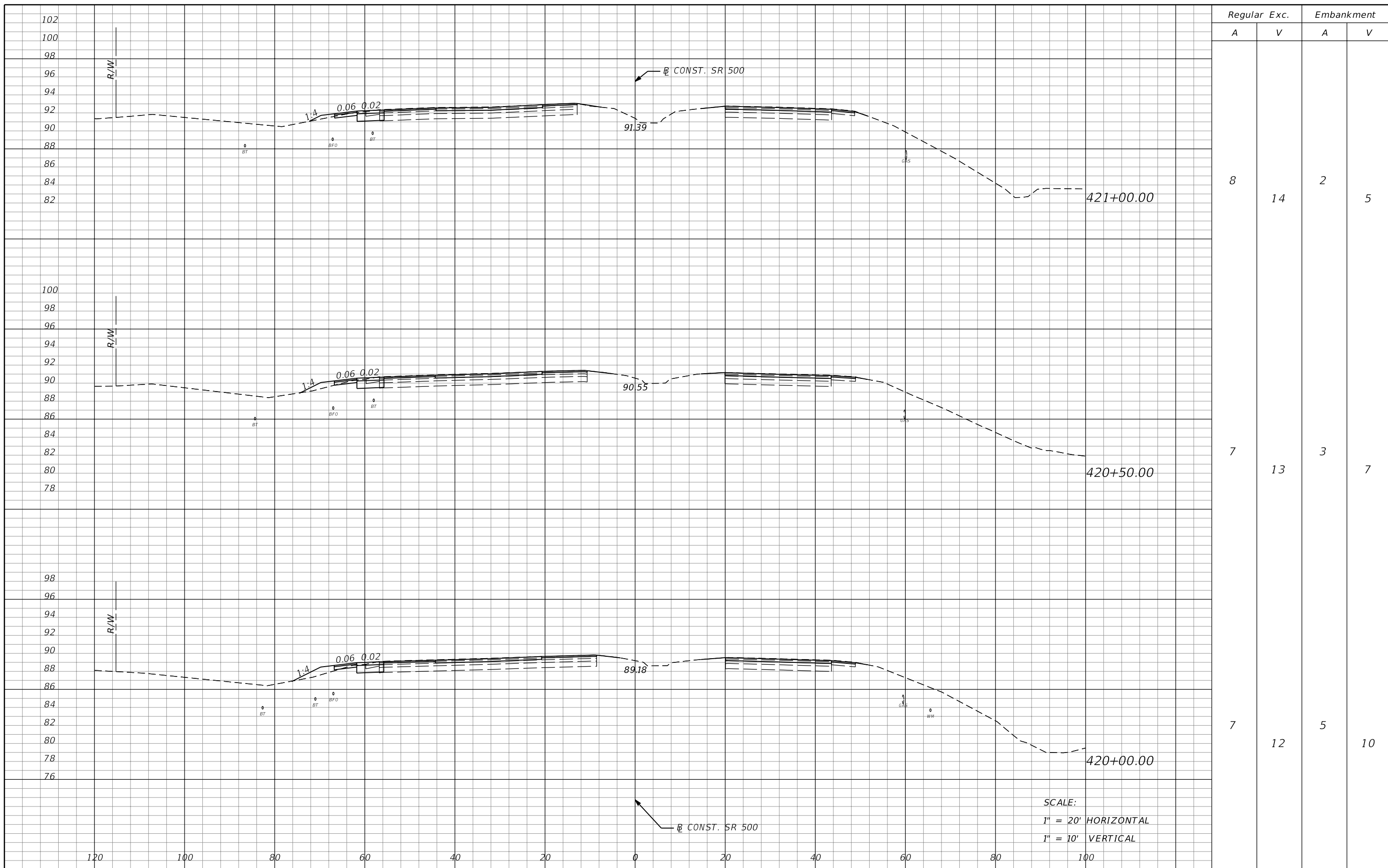
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 500**

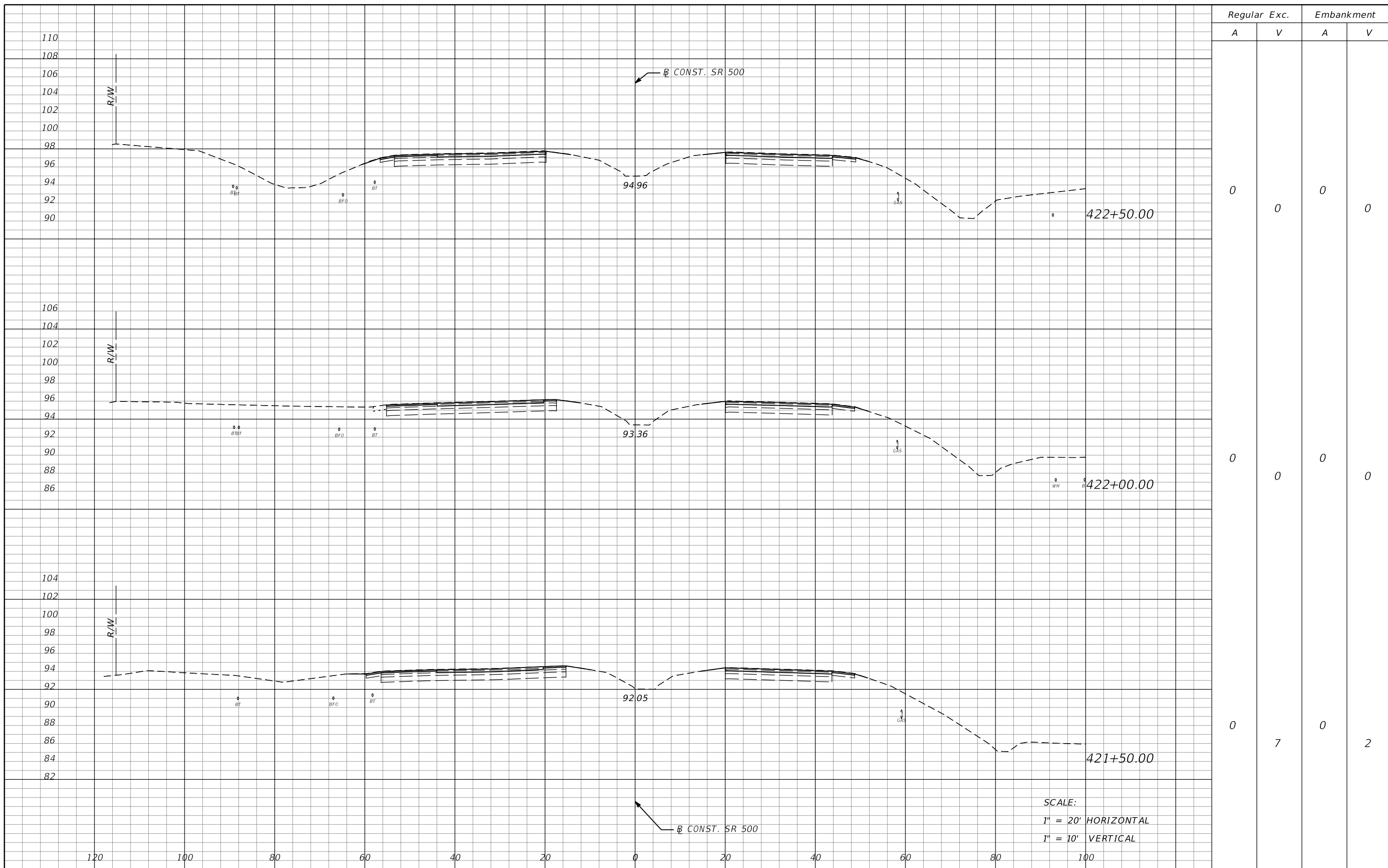
SHEET NO.  
 274



Regular		Exc.		Embankment	
A	V	A	V	A	V
8	14	2	5		
7	13	3	7		
7	12	5	10		

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS				MOFFATT & NICHOL 1025 GREENWOOD BLVD, STE 371 LAKE MARY, FL 32746 PHONE (407) 562-2030 CERT. OF AUTH. NO. 4877	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS</b> <b>SR 500</b>	SHEET NO. 275
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					46	LAKE	238275-2-52-01		



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

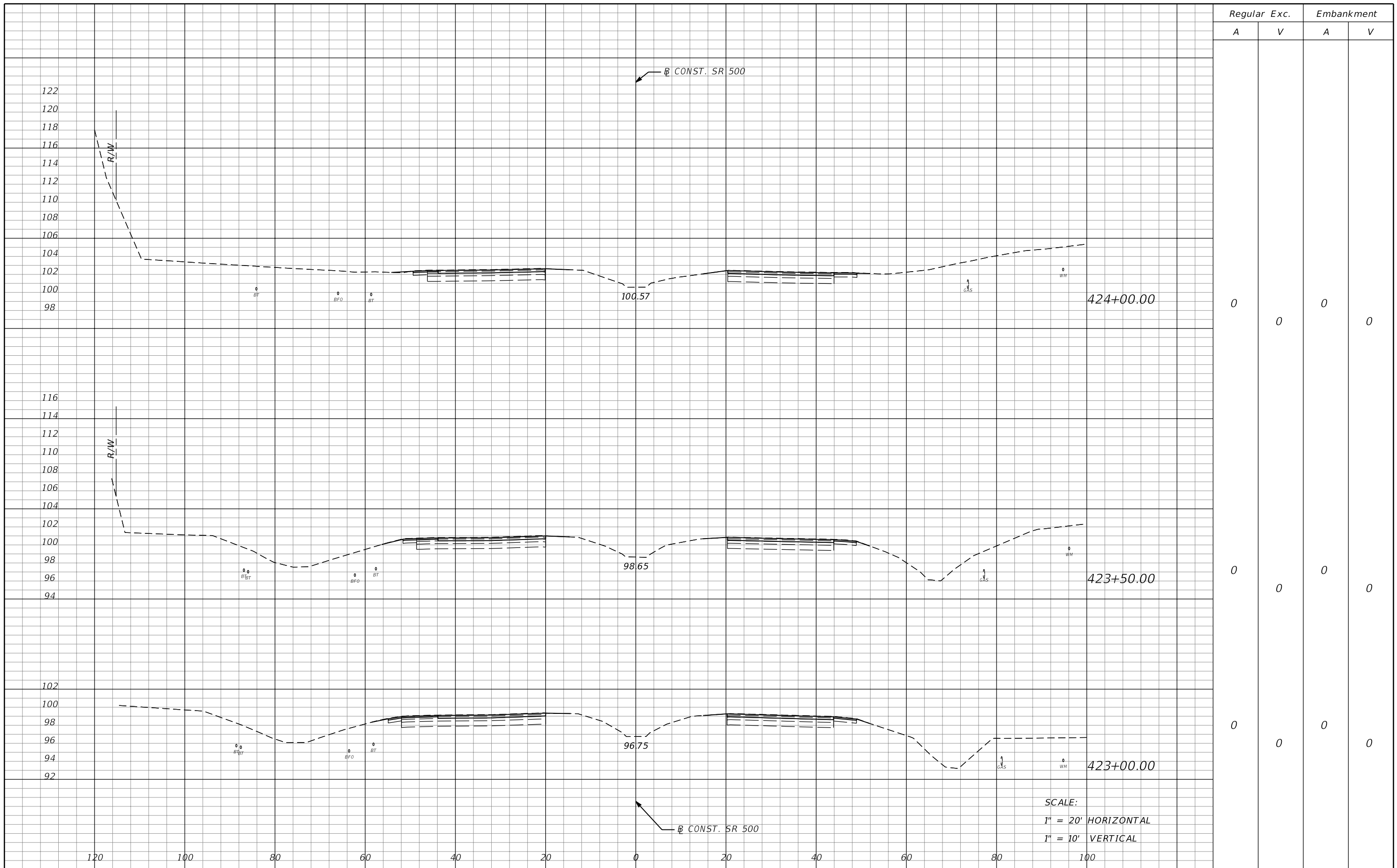
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 500**

SHEET NO.  
 276



Regular		Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

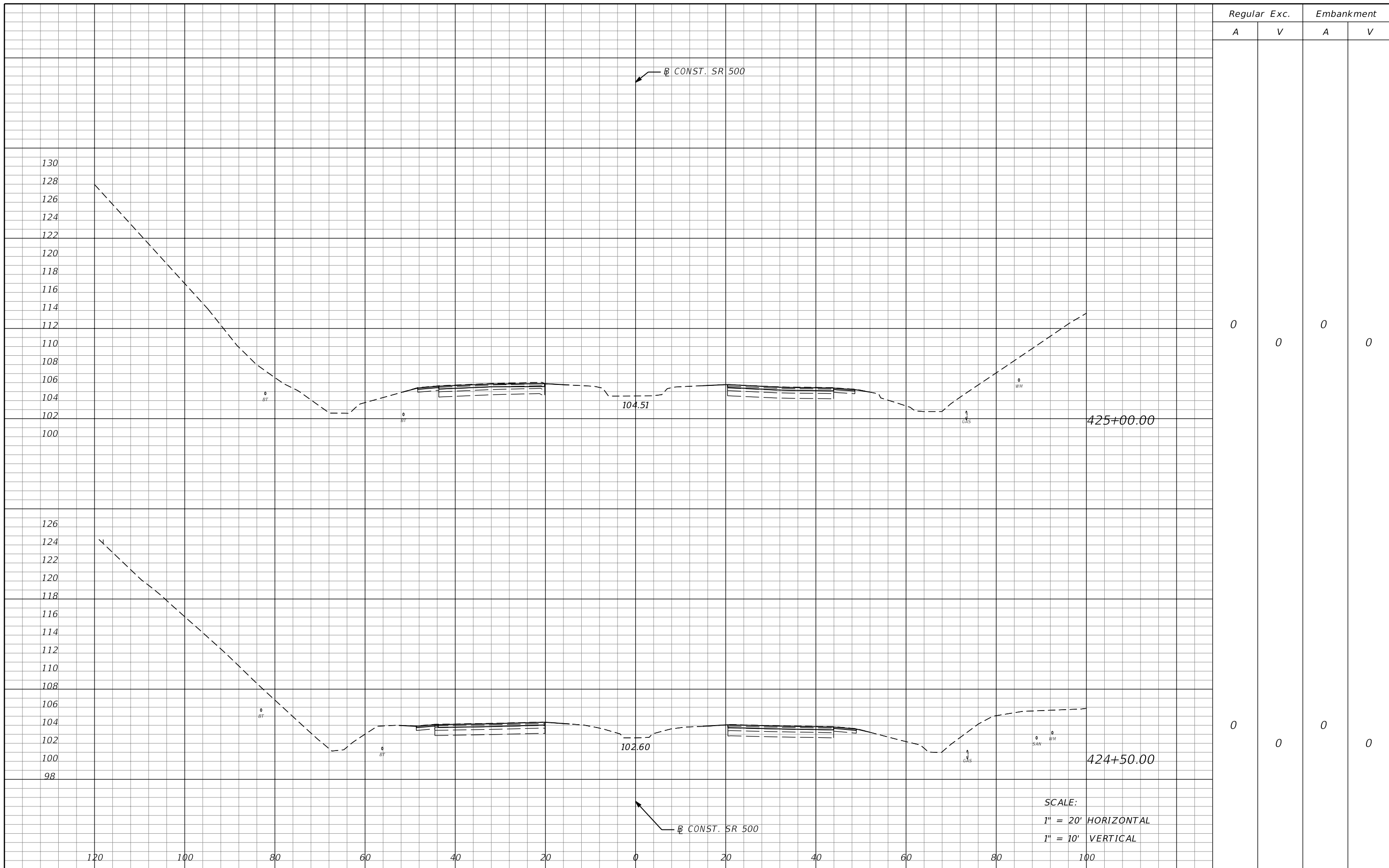
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 500**

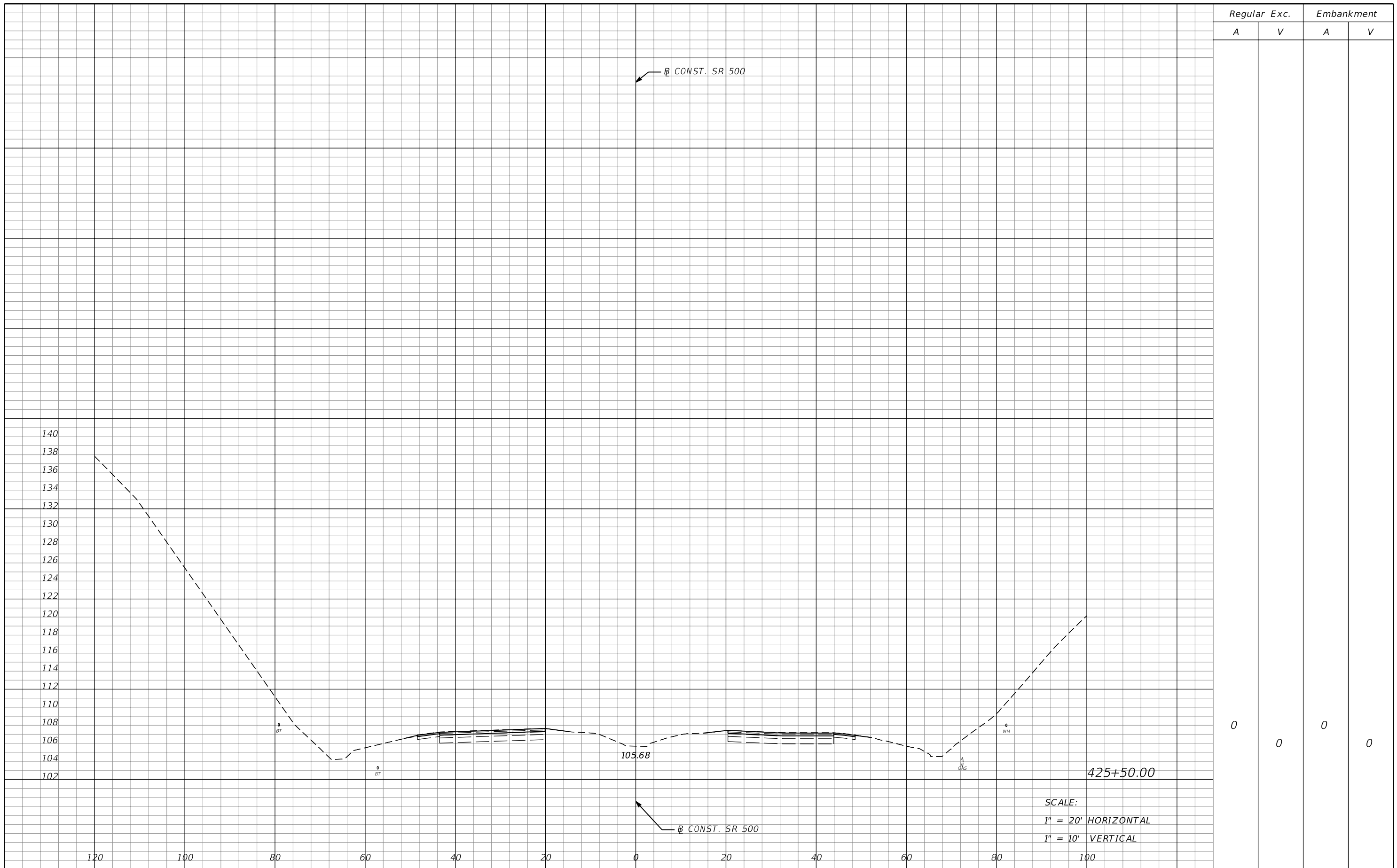
SHEET NO.  
 277



Regular		Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	0	0
0	0	0	0	0	0

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

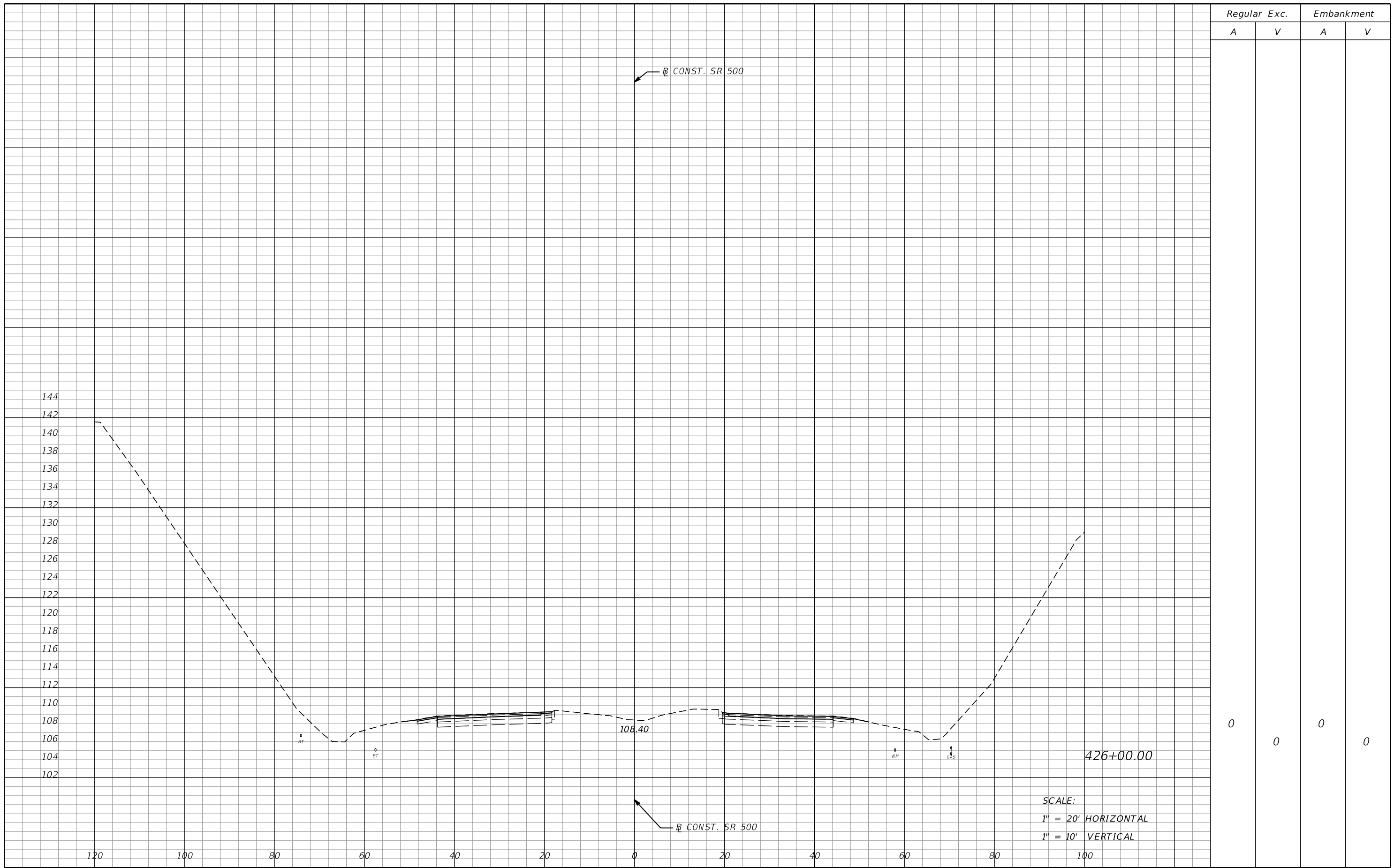
REVISIONS				MOFFATT & NICHOL 1025 GREENWOOD BLVD, STE 371 LAKE MARY, FL 32746 PHONE (407) 562-2030 CERT. OF AUTH. NO. 4877			STATE OF FLORIDA			CROSS SECTIONS SR 500	SHEET NO. 278
DATE	DESCRIPTION	DATE	DESCRIPTION				ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				46	LAKE	238275-2-52-01					



Regular Exc.		Embankment	
A	V	A	V
0	0	0	0

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				46	LAKE	238275-2-52-01			



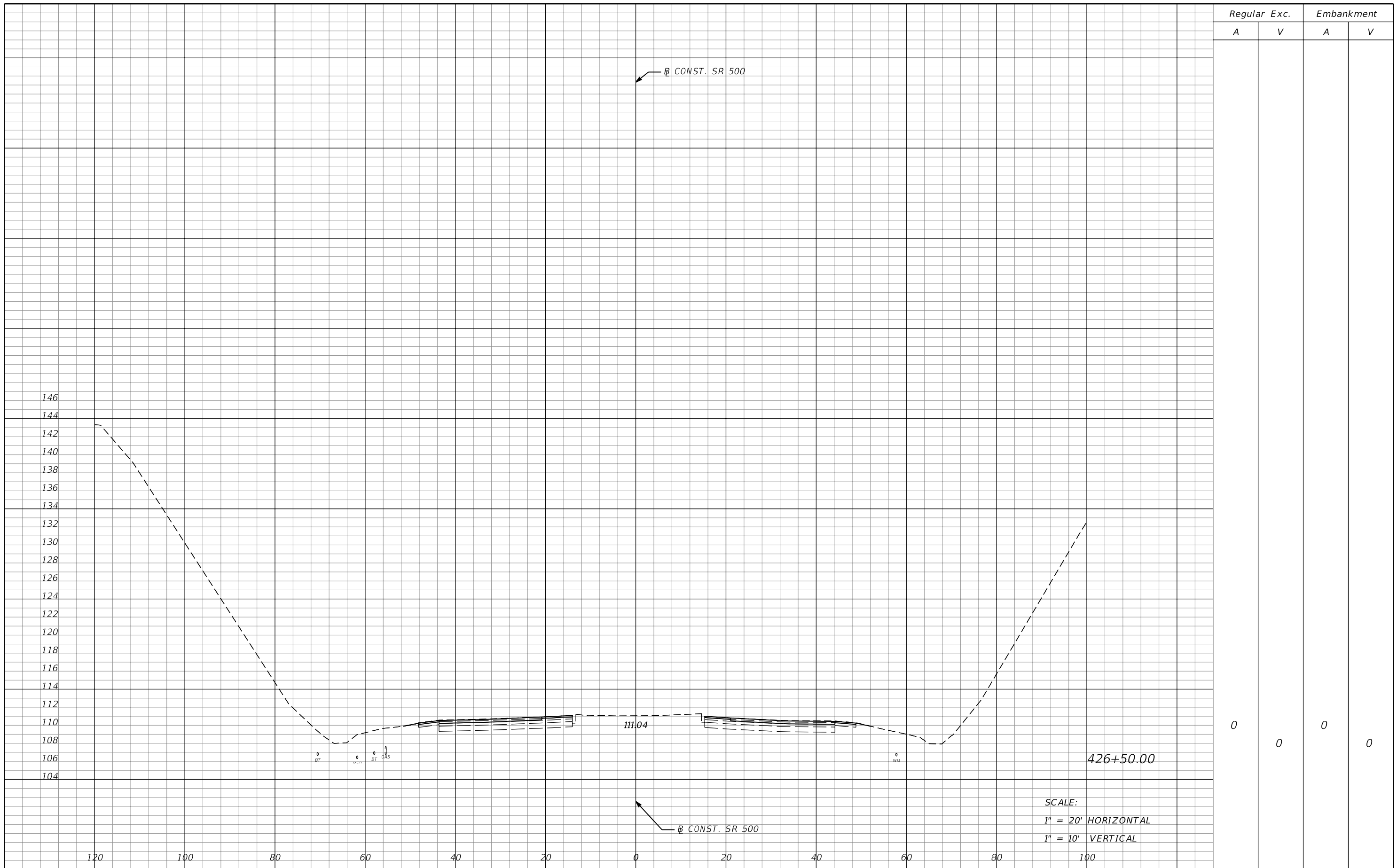


SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS</b> <b>SR 500</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		280
				46	LAKE	238275-2-52-01		

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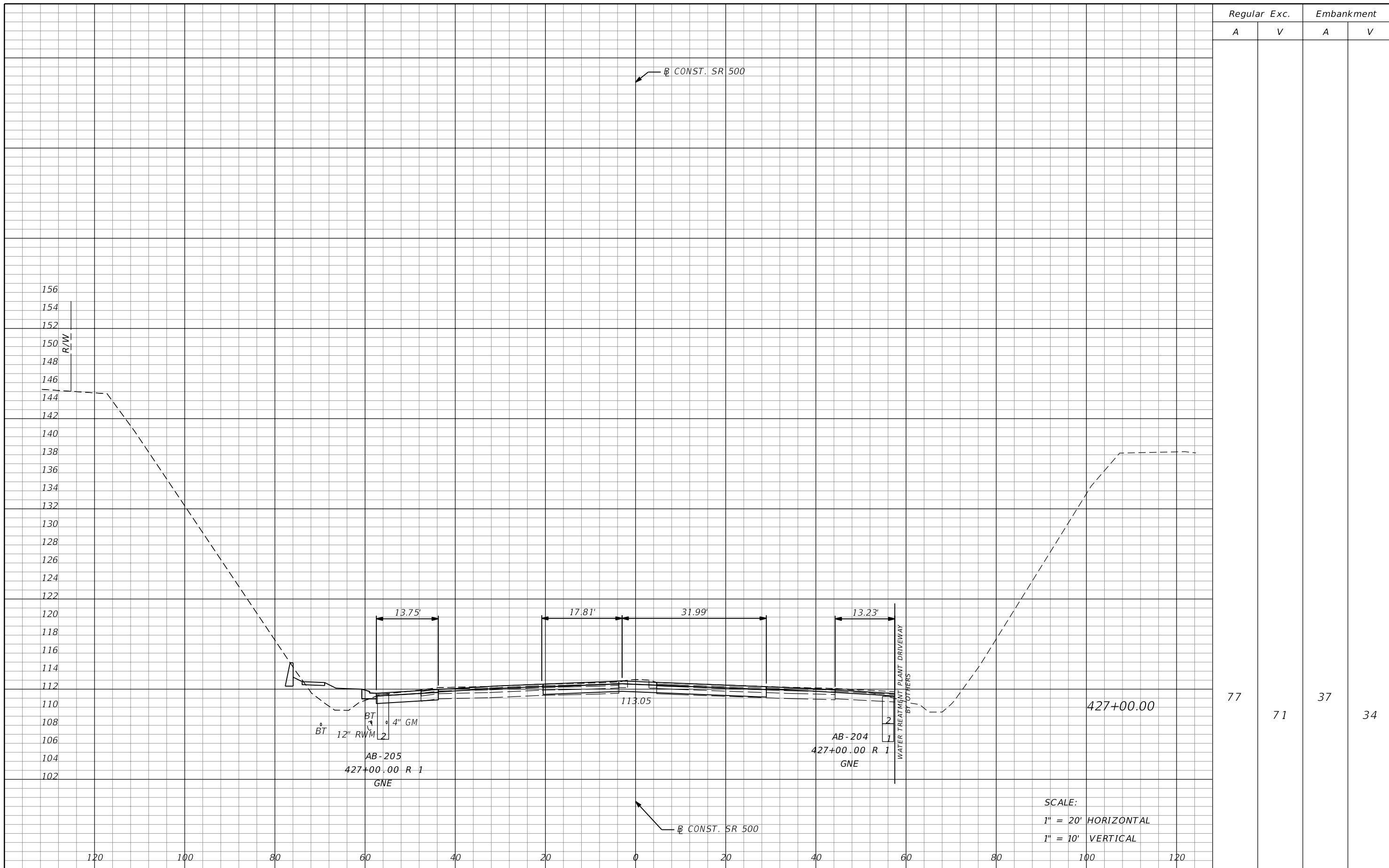
ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539



Regular		Exc.		Embankment	
A	V	A	V	A	V
0	0	0	0	0	0

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS				MOFFATT & NICHOL 1025 GREENWOOD BLVD, STE 371 LAKE MARY, FL 32746 PHONE (407) 562-2030 CERT. OF AUTH. NO. 4877	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS</b> <b>SR 500</b>	SHEET NO. 281
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					46	LAKE	238275-2-52-01		



Regular Exc.		Embankment	
A	V	A	V
77	71	37	34

SCALE:  
 1" = 20' HORIZONTAL  
 1" = 10' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

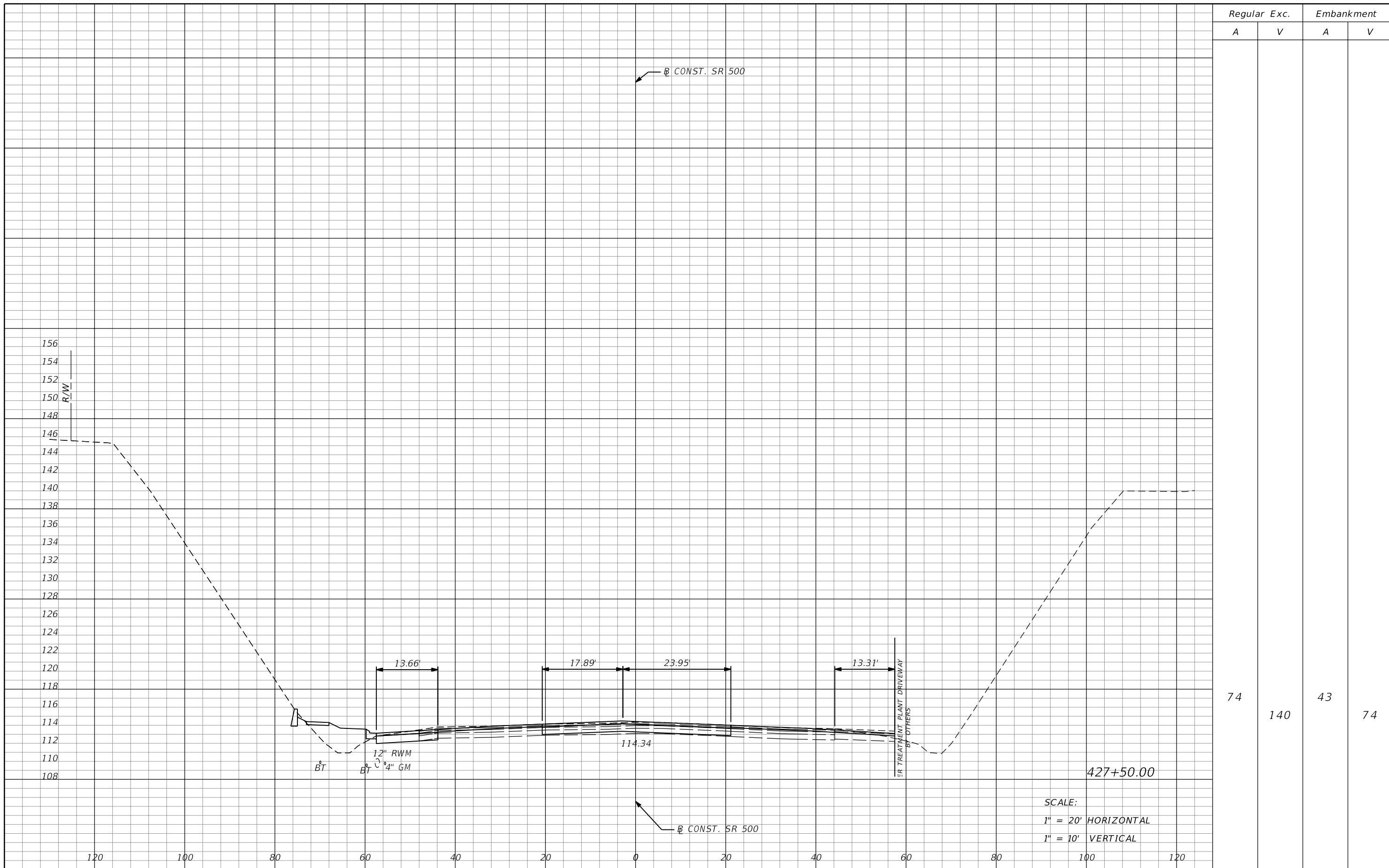
MOFFATT & NICHOL  
 1025 GREENWOOD BLVD, STE 371  
 LAKE MARY, FL 32746  
 PHONE (407) 562-2030  
 CERT. OF AUTH. NO. 4877

ENGINEER OF RECORD:  
 JEFFREY A. MESSENGER, P.E.  
 FL REGISTRATION NO. 57539

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 500**

SHEET NO.  
 282



Regular Exc.		Embankment	
A	V	A	V
74	140	43	74

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

MOFFATT & NICHOL  
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
46	LAKE	238275-2-52-01

**CROSS SECTIONS**  
**SR 500**

SHEET  
 NO.  
**283**