

CONTRACT PLANS COMPONENTS

- ROADWAY PLANS
- SIGNING AND PAVEMENT MARKING PLANS
- SIGNALIZATION PLANS
- INTELLIGENT TRANSPORTATION SYSTEMS PLANS
- LIGHTING PLANS
- STRUCTURE PLANS

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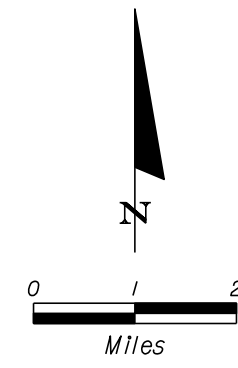
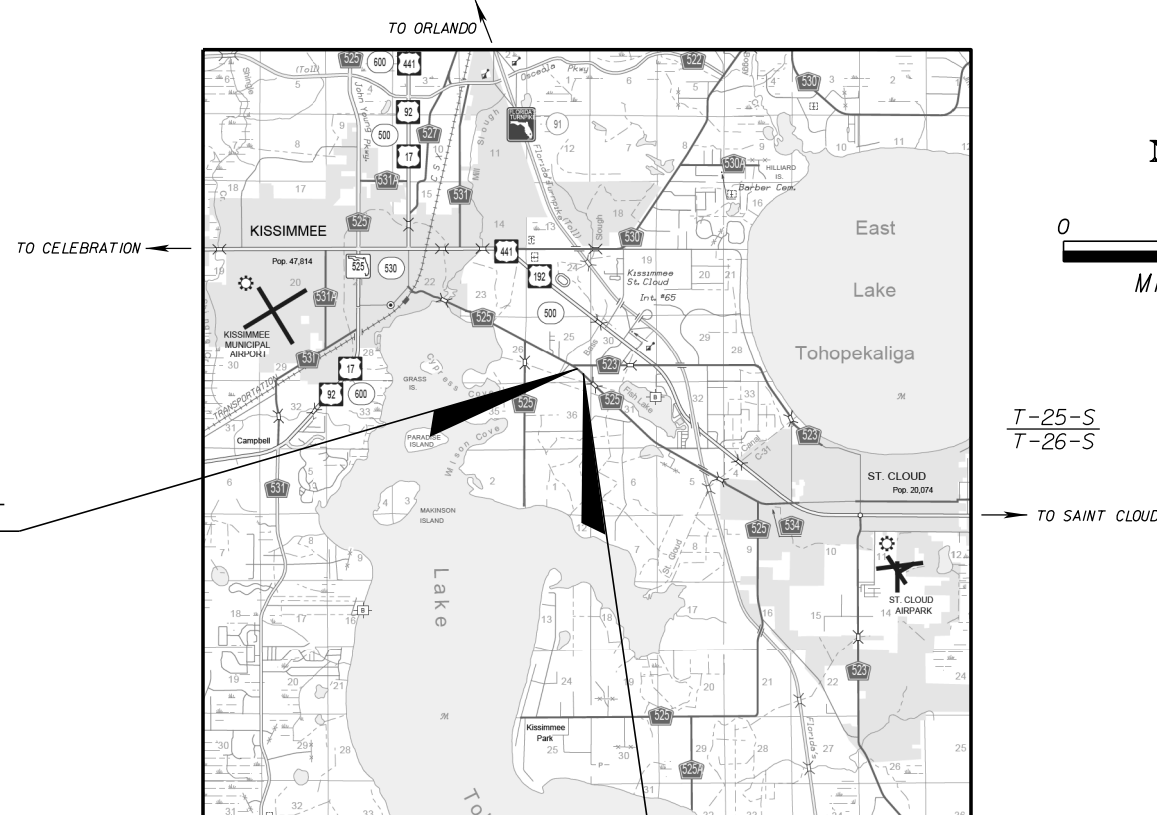
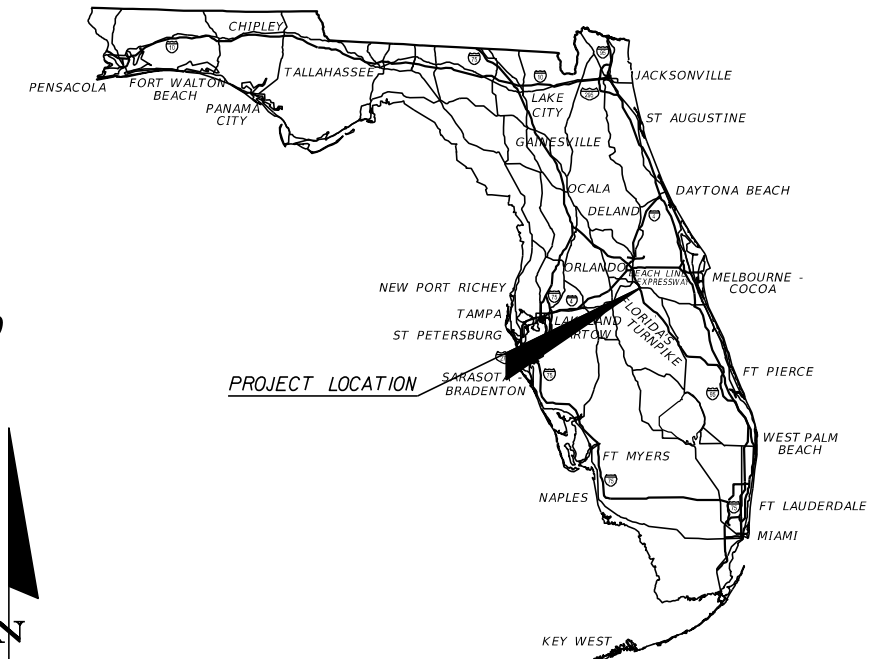
STATE OF FLORIDA
OSCEOLA COUNTY, FLORIDA

CONTRACT PLANS

FINANCIAL PROJECT ID 445415-3-58-01
FEDERAL FUND (FAN D523 042 B)
OSCEOLA COUNTY (92550000)
CR525 (NEPTUNE ROAD)

NEPTUNE ROAD WIDENING FROM PARTIN SETTLEMENT ROAD
TO SOUTH OF KINGS CREST ROAD

ROADWAY PLANS



T-25-S
T-26-S

BEGIN PROJECT
STA. 0+00.00
MP. 2.900

END PROJECT
STA. 74+92.75
MP. 4.319



ROADWAY PLANS
ENGINEER OF RECORD:
DAVID VERLANDER, P.E. NO.: 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET, SUITE 700
ORLANDO, FL 32801
(407) 423-8398
CONSULTANT VENDOR ID No. 251260999-003

COUNTY PROJECT MANAGER:
KYLE DORRIS, PE

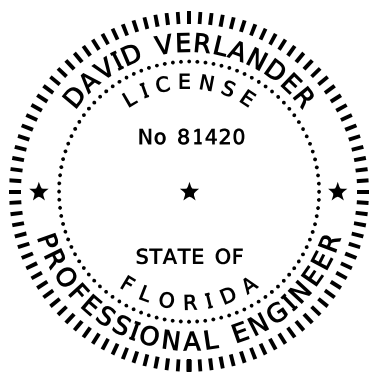
GOVERNING STANDARD PLANS:
Florida Department of Transportation, FY 2023-24 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Bridge Construction are included in the Structures Plans Component

GOVERNING STANDARD SPECIFICATIONS:
Florida Department of Transportation, FY 2023-24 Standard Specifications for Road and Bridge Construction at the following website:
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
N/A	23	

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



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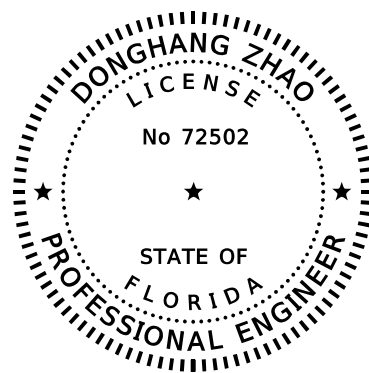
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GAI CONSULTANTS, INC
618 E. SOUTH STREET, SUITE 700
ORLANDO, FLORIDA 32801
CERTIFICATE OF AUTHORIZATION NO. 9951
DAVID VERLANDER, P.E. NO. 81420

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

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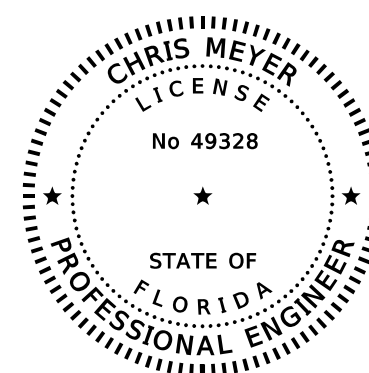
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GAI CONSULTANTS, INC
618 E. SOUTH STREET, SUITE 700
ORLANDO, FLORIDA 32801
CERTIFICATE OF AUTHORIZATION NO. 9951
MARK OWEN, P.E. NO. 42163

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GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC
919 LAKE BALDWIN LANE
ORLANDO, FLORIDA 32814
CERTIFICATE OF AUTHORIZATION NO. 5882
CHRIS MEYER, P.E. NO. 49328

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

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
2	SIGNATURE SHEET
94	ROADWAY AND POND SOIL SURVEY

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

SIGNATURE SHEET

SHEET NO.
2

SUMMARY OF PAY ITEMS

SUMMARY OF ROADWAY

PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
101-1	MOBILIZATION	LS	1
102-1	MAINTENANCE OF TRAFFIC	(LS)	1
102-2-200	SPECIAL DETOUR - TEMPORARY PAVEMENT	SY	7870
102-2-300	SPECIAL DETOUR - TEMPORARY EARTHWORK/BASE	CY	7091
102-4	PEDESTRAIN SPECIAL DETOUR	SY	263
102-14	TRAFFIC CONTROL OFFICER	HR	200
102-60	WORK ZONE SIGNS	ED	26709
102-71-13	TEMPORARY BARRIER, F&I, LOW PROFILE, CONCRETE	LF	8187
102-71-23	TEMPORARY BARRIER, RELOCATE, LOW PROFILE CONCRETE	LF	10230
102-74-1	CHANNELIZING DEVICES - TYPES I, II, DI, VP, DRUM, OR LCD	ED	218767
102-74-8	CHANNELIZING DEVICES - PEDESTRIAN LCD (LONGITUDINAL CHANNELIZING DEVICE)	FD	522732
102-76	ARROW BOARD/ADVANCE WARNING ARROW PANEL	ED	416
102-78	TEMPORARY RAISED / RETROREFLECTIVE PAVEMENT MARKER	EA	3743
102-99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	312
102-104	TEMPORARY SIGNALIZATION AND MAINTENANCE, INTERSECTION	ED	668
102-107-1	TEMPORARY TRAFFIC DETECTION AND MAINTENANCE, INTERSECTION	ED	668
102-115	TYPE III BARRICADE	ED	2239
104-10-3	SEDIMENT BARRIER	LF	10380
104-11	FLOATING TURBIDITY BARRIER	LF	1253
104-12	STAKED TURBIDITY BARRIER	LF	7545
104-18	INLET PROTECTION SYSTEM	EA	72
107-1	LITTER REMOVAL	AC	512.00
107-2	MOWING	AC	221.80
110-1-1	CLEARING & GRUBBING	AC	27.1
110-4-10	REMOVAL OF EXISTING CONCRETE	SY	9182
110-7-1	MAILBOX, F&I SINGLE	EA	32
120-1	REGULAR EXCAVATION	CY	47407
120-4	SUBSOIL EXCAVATION	CY	25101
120-6	EMBANKMENT	CY	88563
160-4	TYPE B STABILIZATION	SY	79408
285-701	OPTIONAL BASE, BASE GROUP 01	SY	17613
285-709	OPTIONAL BASE, BASE GROUP 09	SY	33957
285-710	OPTIONAL BASE, BASE GROUP 10	SY	14964
327-70-2	MILLING EXIST ASPH PAVT, 3.5" AVG DEPTH	SY	154
327-70-6	MILLING EXIST ASPH PAVT, 1.5" AVG DEPTH	SY	12423
327-70-7	MILLING EXIST ASPH PAVT, 4" AVG DEPTH	SY	113
334-1-13	SUPERPAVE ASPHALTIC CONC., TRAFFIC C	TN	1396.4
334-1-53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, PG 76-22	TN	9134.2
337-7-83	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-12.5, PG 76-22	TN	5084.1
339-1	MISCELLANEOUS ASPHALT PAVEMENT	TN	13.4
400-0-11	CONCRETE CLASS NS, GRAVITY WALL INDEX 400-011	CY	8.1
415-1-1	REINFORCING STEEL	LB	202
425-1-351	INLETS, CURB, TYPE P-5, <10'	EA	32
425-1-361	INLETS, CURB, TYPE P-6, <10'	EA	11
425-1-451	INLETS, CURB, TYPE J-5, <10'	EA	11
425-1-452	INLETS, CURB, TYPE J-5, >10'	EA	1
425-1-461	INLETS, CURB, TYPE J-6, <10'	EA	3
425-1-471	INLETS, CURB, TYPE 7, <10'	EA	3
425-1-523	INLETS, DT BOT, TYPE C, JBOT, <10'	EA	1
425-1-531	INLETS, DITCH BOTTOM, TYPE C MODIFIED- BACK OF SIDEWALK, <10'	EA	1
425-1-541	INLETS, DT BOT, TYPE D, <10'	EA	2
425-1-549	INLETS, DT BOT, TYPE D, MODIFY	EA	1
425-1-881	INLETS, BARRIER WALL, RIGID, CURB & GUTTER, <=10'	EA	1
425-2-61	MANHOLES, P-8, <10'	EA	2
425-2-91	MANHOLES, J-8, <10'	EA	6
425-2-93	MANHOLES, J-8, PARTIAL	EA	1
425-3-41	JUNCTION BOX, DRAINAGE, P-7, <10'	EA	1
425-3-43	JUNCTION BOX, DRAINAGE, P-7, PARTIAL	EA	5
425-3-63	JUNCTION BOXES, DRAINAGE, J-7, PARTIAL	EA	14
430-174-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"SD	LF	28
430-174-124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24"SD	LF	141
430-175-115	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 15"S/CD	LF	72
430-175-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"S/CD	LF	3673

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

SUMMARY OF PAY ITEMS

SHEET NO.

3

SUMMARY OF PAY ITEMS

SUMMARY OF ROADWAY

PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
430-175-124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24"S/CD	LF	1714
430-175-130	PIPE CULVERT, OPT MATERIAL, ROUND, 30"S/CD	LF	1495
430-175-136	PIPE CULVERT, OPT MATERIAL, ROUND, 36"S/CD	LF	2888
430-536-100	STRAIGHT CONCRETE ENDWALLS, 36", SINGLE, 0 DEGREES, ROUND	EA	1
430-982-138	MITERED END SECTION, OPTIONAL ROUND, 36" CD	EA	3
430-984-125	MITERED END SECTION, OPTIONAL ROUND, 18" SD	EA	2
430-984-129	MITERED END SECTION, OPTIONAL ROUND, 24" SD	EA	10
430-984-133	MITERED END SECTION, OPTIONAL ROUND, 30" SD	EA	2
515-1-2	PIPE HANDRAIL-GUIDERAIL (ALUMINUM)	LF	9
515-2-311	PEDESTRIAN/BICYCLE RAILING, ALUMINUM ONLY, 42" TYPE 1	LF	310
520-1-7	CONCRETE CURB & GUTTER, TYPE E	LF	12227
520-1-10	CONCRETE CURB & GUTTER, TYPE F	LF	13944
520-3	VALLEY GUTTER - CONCRETE	LF	1000
520-5-11	TRAFFIC SEPARATOR, CONCRETE, TYPE 1, 4' WIDE	LF	1704
521-72-41	SHOULDER CONCRETE BARRIER, RETAINING SECTION	LF	5
521-72-43	SHOULDER CONCRETE BARRIER, 38" CURB & GUTTER BARRIER	LF	144
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY	203
522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	3407
524-2-1	CONCRETE DITCH SLOPE PAVT, NON REINFORCED, 3"	SY	255.8
527-2	DETECTABLE WARNING	SF	393
530-3-3	RIPRAP-RUBBLE, BANK AND SHORE	TN	560.0
530-3-4	RIPRAP-RUBBLE, F&I, DITCH LINING	TN	3.9
530-74	BEDDING STONE	TN	332.4
536-1	GUARDRAIL - ROADWAY, GENERAL/LOW SPEED TL-2	LF	491
536-73	GUARDRAIL REMOVAL	LF	542
536-85-20	GUARDRAIL END TREATMENT - TRAILING ANCHORAGE	EA	2
536-85-24	GUARDRAIL END TREATMENT - PARALLEL APPROACH	EA	2
570-1-1	PERFORMANCE TURF	SY	27871
570-1-2	PERFORMANCE TURF, SOD	SY	27343
590-70	IRRIGATION SYSTEM	LS	1
710-11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM	10.633
710-11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF	1125
710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, FOR STOP LINE OR CROSSWALK, 24"	LF	1280
710-11-141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6" WIDE	GM	0.120
710-11-170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA	34
710-11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	10.409
710-11-224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, FOR DIAGONAL OR CHEVRON, 18"	LF	256

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SUMMARY OF PAY ITEMS

SUMMARY OF SIGNALIZATION

PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	284
0630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	427
0632 7 1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI	1
0635 2 11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	15
0639 1122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	1
0639 2 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	50
0641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	1
0641 2 60	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- PEDESTAL/SERVICE POLE	EA	1
0646 1 11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	8
0646 1 60	ALUMINUM SIGNALS POLE, REMOVE	EA	7
0649 21 10	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 60'	EA	2
0649 21 15	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 70'	EA	1
0649 21 21	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 78'	EA	1
0649 26 3	STEEL MAST ARM ASSEMBLY, REMOVE SHALLOW FOUNDATION- BOLT ON ATTACHMENT	EA	4
0650 1 14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS	16
0653 1 11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS	8
0660 4 11	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL CABINET EQUIPMENT	EA	1
0660 4 12	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL ABOVE GROUND EQUIPMENT	EA	4
0663 1121	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, CABINET ELECTRONICS	EA	1
0663 1122	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, DETECTOR	EA	1
0665 1 11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA	8
0670 5111	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS	1
0670 5600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS	1
0685 1 13	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE WITH CABINET	EA	1
0685 2 1	REMOTE POWER MANAGEMENT UNIT- RPMU, FURNISH AND INSTALL	EA	1
0700 5 22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA	4

SUMMARY OF PAY ITEMS

SUMMARY OF SIGNING

PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
0700 1 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	38
0700 1 13	SINGLE POST SIGN, F&I GROUND MOUNT, 21-30 SF	AS	1
0700 1 14	SINGLE POST SIGN, F&I, GROUND MOUNT, 31+ SF	AS	2
0700 1 50	SINGLE POST SIGN, RELOCATE	AS	1
0700 1 60	SINGLE POST SIGN, REMOVE	AS	27
0700 2 15	MULTI-POST SIGN, F&I GROUND MOUNT, 51-100 SF	AS	2
0705 10 1	OBJECT MARKER, TYPE 1	EA	11
0705 11 1	DELINEATOR, FLEXIBLE TUBULAR	EA	10
0710 11290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF	131
0706 1 3	RAISED PAVEMENT MARKER, TYPE B	EA	879
0710 90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS	1
0711 11123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	1121
0711 11125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	266
0711 11141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/6-10 GAP EXTENSION, 6"	GM	0.417
0711 11160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	21
0711 11170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	98
0711 11241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXTENSION LINE, 6"	GM	0.186
0711 14125	THERMOPLASTIC, PREFORMED, WHITE, 24" FOR CROSSWALK	LF	1236
0711 16101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	4.657
0711 16131	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6", 10-30 SKIP OR 3-9 LANE DROP	GM	2.880
0711 16201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	2.984

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

SUMMARY OF PAY ITEMS

SHEET NO.

4

SUMMARY OF PAY ITEMS

SUMMARY OF STRUCTURES

PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
0110-3	REMOVAL OF EXISTING STRUCTURE	SF	1710
400-4-1	CONCRETE CLASS IV, CULVERTS	CY	511
415-1-1	REINFORCING STEEL-ROADWAY	LB	115826
455-133-2	SHEET PILING STEEL, TEMPORARY-CRITICAL	SF	4660
548-13	RETAINING WALL SYSTEM, TEMPORARY, EXCLUDING BARRIER	SF	1518

SUMMARY OF PAY ITEMS

SUMMARY OF INTELLIGENT TRANSPORTATION SYSTEM

PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	9422
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	6761
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVEGROUND	LF	35
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF	437
633-1-122	FIBER OPTIC CABLE, F&I, UNDERGROUND, 13-48 FIBERS	LF	115
633-1-420	FIBER OPTIC CABLE, RELOCATE, UNDERGROUND	LF	9782
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	96
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA	3
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA	8
633-3-15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA	3
635-2-11	PULL & SPLICE BOX, FURNISH & INSTALL, 13" X 24" COVER SIZE	EA	42
635-2-12	PULL & SPLICE BOX, FURNISH & INSTALL, 24" X 36" COVER SIZE	EA	12
635-2-13	PULL & SPLICE BOX, FURNISH & INSTALL, 30" X 60" RECTANGULAR COVER SIZE	EA	5
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	1
639-2-1	ELECTRICAL SERVICE WIRE, F&I	LF	32
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-11 SERVICE POLE	EA	1
641-3-163	CONCRETE CCTV POLE, F&I WITH LOWERING DEVICE, 63'	EA	1
660-6-121	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, CABINET EQUIPMENT	EA	3
660-6-122	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA	3
676-1-500	TRAFFIC SIGNAL CONTROLLER CABINET, ADJUST/MODIFY	EA	1
676-2-122	ITS CABINET, F&I, POLE MOUNT WITH SUNSHIELD, 336S 24"W X 46"H X 22" D	EA	1
682-1-143	ITS CCTV CAMERA, F&I, EXTERNAL POSITIONER PTZ - NON-PRESSURIZED, IP, HIGH DEFINITION	EA	3
684-1-1	MANAGED FIELD ETHERNET SWITCH, F&I	EA	3
685-1-11	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE	EA	1
685-1-13	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE WITH CABINET	EA	1
685-2-1	REMOTE POWER MANAGEMENT UNIT - RPMU, FURNISH & INSTALL	EA	2

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



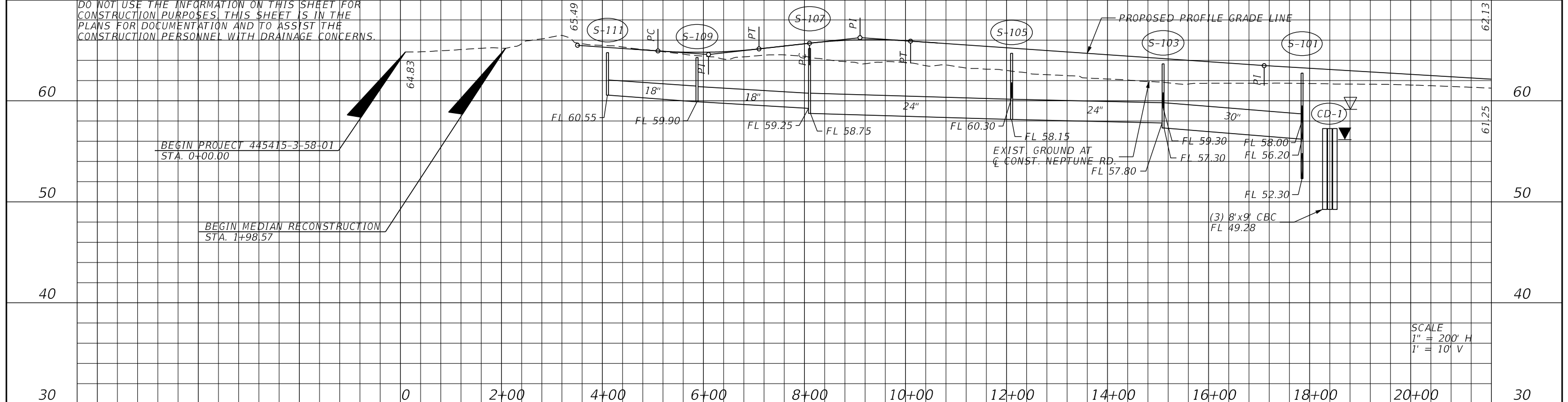
OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

SUMMARY OF PAY ITEMS

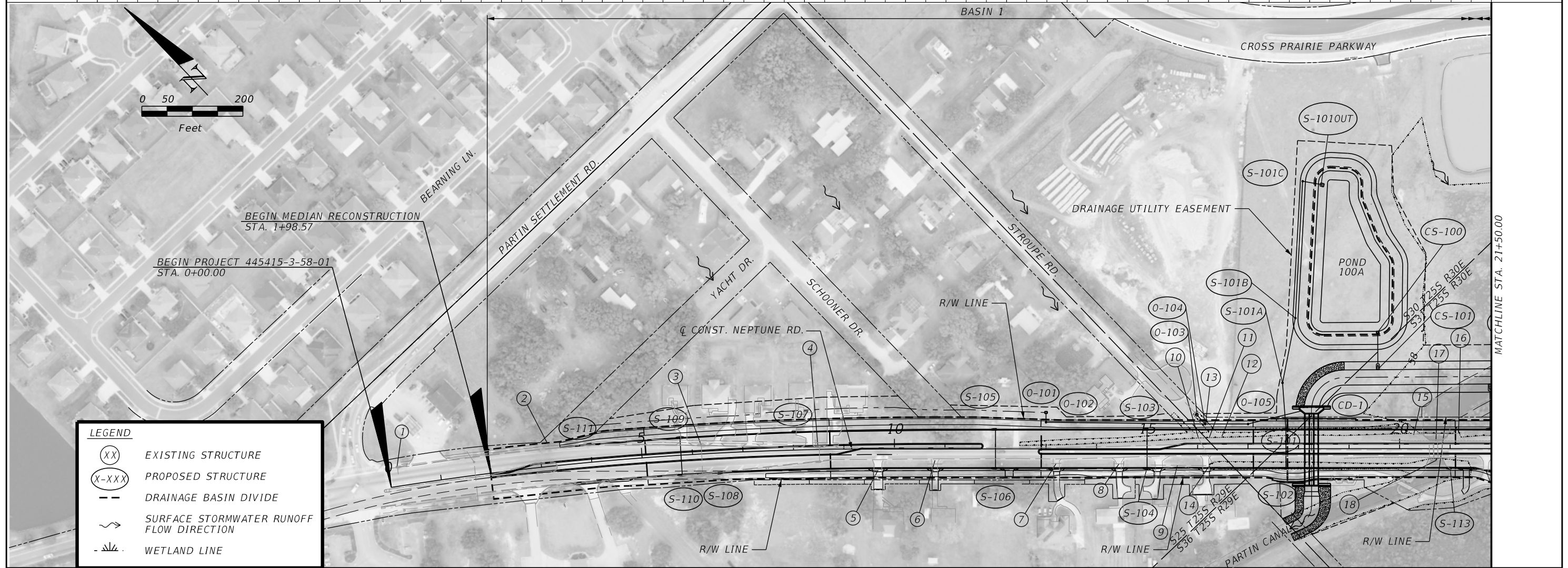
SHEET NO.

5

DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST THE CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS.



SCALE
1" = 200' H
1" = 10' V



LEGEND

- (XX) EXISTING STRUCTURE
- (X-XXX) PROPOSED STRUCTURE
- - - DRAINAGE BASIN DIVIDE
- ~ SURFACE STORMWATER RUNOFF FLOW DIRECTION
- - - WETLAND LINE

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

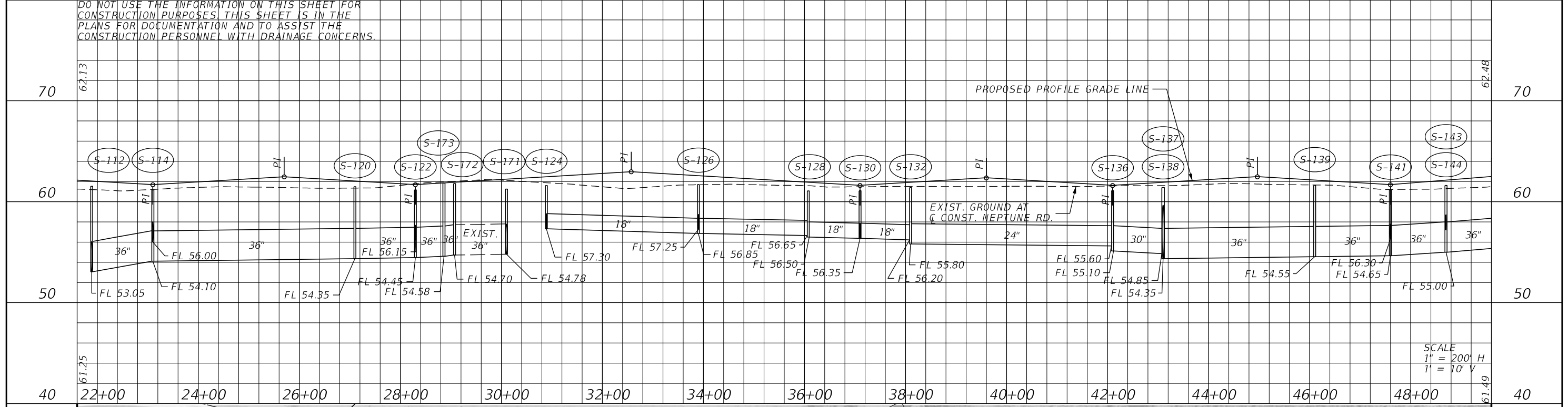
OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE: (407) 742-0662 FAX: (407) 742-0600

DRAINAGE MAP (1)

SHEET NO.
6

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

OSCEOLA COUNTY TRANSIT AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE: (407) 742-0662 FAX: (407) 742-0600

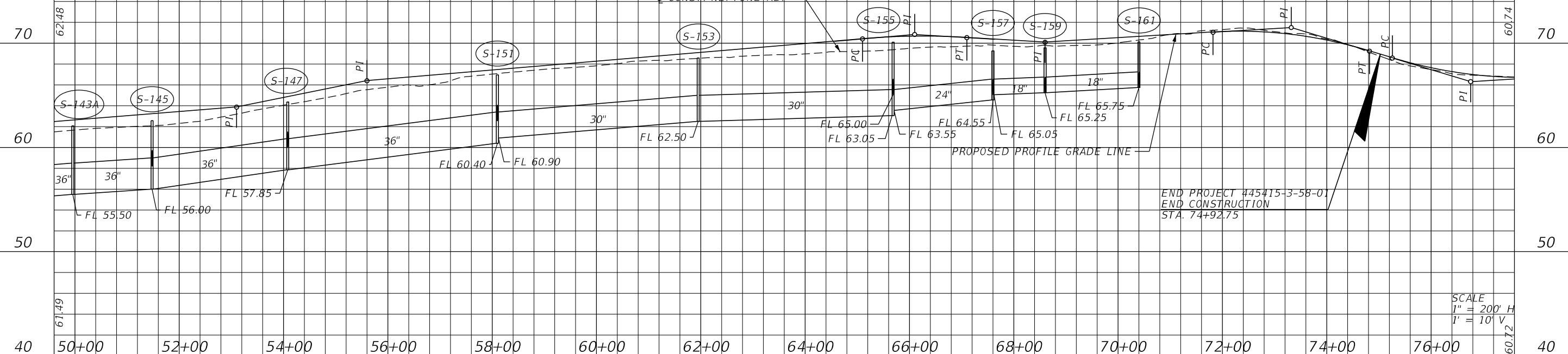
DRAINAGE MAP (2)

SHEET NO. 7

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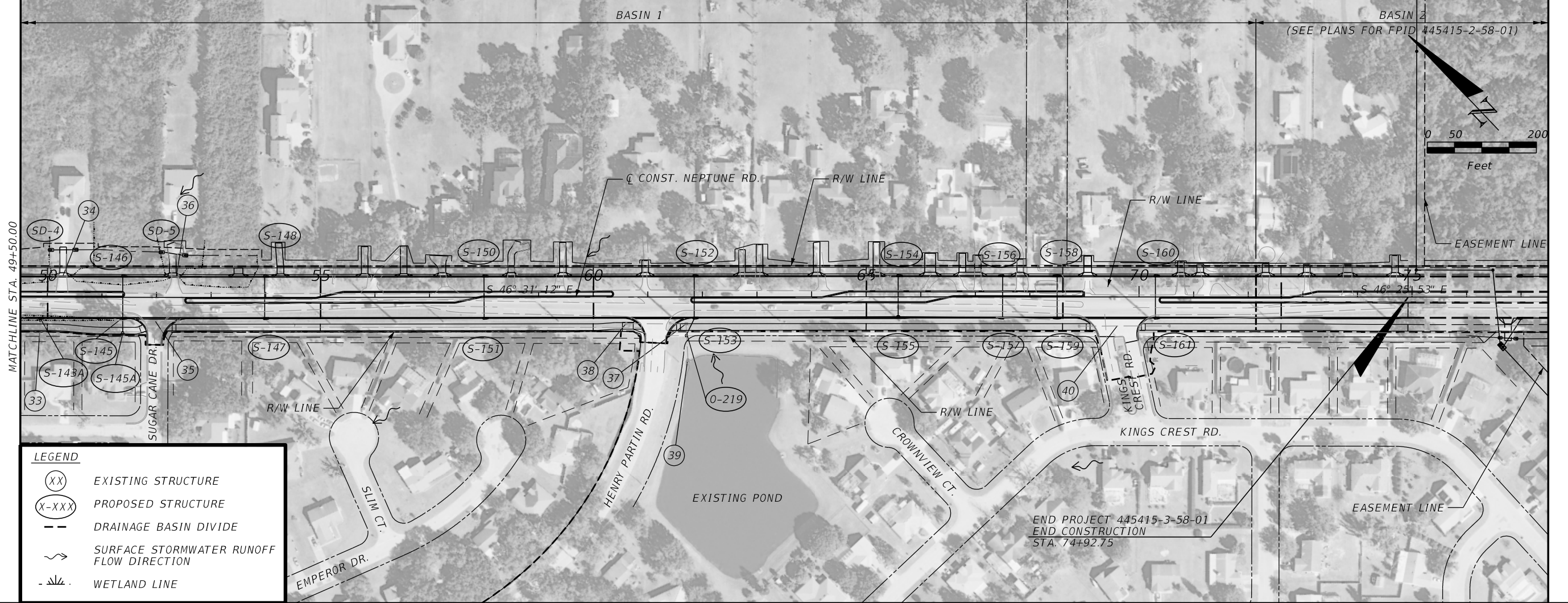
DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST THE CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS.

EXIST. GROUND AT
Q CONST. NEPTUNE RD.



END PROJECT 445415-3-58-01
END CONSTRUCTION
STA. 74+92.75

SCALE
1" = 200' H
1" = 10' V



MATCHLINE STA. 49+50.00

LEGEND	
(XX)	EXISTING STRUCTURE
(X-XXX)	PROPOSED STRUCTURE
- - -	DRAINAGE BASIN DIVIDE
~	SURFACE STORMWATER RUNOFF FLOW DIRECTION
- - -	WETLAND LINE

END PROJECT 445415-3-58-01
END CONSTRUCTION
STA. 74+92.75

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE: (407) 742-0662 FAX: (407) 742-0600

DRAINAGE MAP (3)

SHEET NO.
8

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SUMMARY OF FLOOD DATA

SHEET 1 OF 1


DATE: 10/06/21

STRUCTURE NO.	STATION	DESIGN FLOOD		BASE FLOOD		OVERTOPPING FLOOD				GREATEST FLOOD			
		2% PROB	50 YR FREQ	1% PROB	100 YR FREQ	DISCHARGE	STAGE	PROB %	FREQ YR	DISCHARGE	STAGE	PROB %	FREQ YR
		DISCHARGE	STAGE	DISCHARGE	STAGE								
CD-1	18+26	199	55.88	203	55.88					559	56.11	0.2	500

NOTE: THE HYDRAULIC DATA IS SHOWN FOR INFORMATIONAL PURPOSES ONLY, TO INDICATE THE FLOOD DISCHARGES AND WATER SURFACE ELEVATIONS WHICH MAY BE ANTICIPATED IN ANY GIVEN YEAR. THIS DATA WAS GENERATED USING HIGHLY VARIABLE FACTORS DETERMINED BY A STUDY OF THE WATERSHED. MANY JUDGEMENTS AND ASSUMPTIONS ARE REQUIRED TO ESTABLISH THESE FACTORS. THE RESULTANT HYDRAULIC DATA IS SENSITIVE TO CHANGES, PARTICULARLY OF ANTECEDENT CONDITIONS, URBANIZATION, CHANNELIZATION, AND LAND USE. USERS OF THIS DATA ARE CAUTIONED AGAINST THE ASSUMPTION OF PRECISION WHICH CAN NOT BE ATTAINED. DISCHARGES ARE IN CUBIC FEET PER SECOND (CFS) AND STAGES ARE IN FEET, NGVD29.

DEFINITIONS:

- DESIGN FLOOD: UTILIZED TO ASSURE A STANDARD LEVEL OF HYDRAULIC PERFORMANCE.
- BASE FLOOD: HAS A 1% CHANCE OF BEING EXCEEDED IN ANY YEAR (100 YR. FREQUENCY).
- OVERTOPPING FLOOD: CAUSES FLOW OVER THE HIGHWAY, OVER A WATERSHED DIVIDE OR THRU EMERGENCY RELIEF STRUCTURES.
- GREATEST FLOOD: THE MOST SEVERE THAT CAN BE PREDICTED WHERE OVERTOPPING IS NOT PRACTICABLE.

REVISIONS				DAVID R. VERLANDER, P.E. P.E. LICENSE NUMBER 81420 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801	 OSCEOLA COUNTY TRANSIT AND TRANSPORTATION 1 COURTHOUSE SQUARE, SUITE 3100 KISSIMMEE, FLORIDA 34741-5488 PHONE:(407) 742-0662 FAX:(407) 742-0600	<h2 style="margin: 0;">FLOOD DATA TABLE</h2>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				9

EXISTING DRAINAGE STRUCTURES

NOTE: STRUCTURES 1-40 APPLY TO FPID 445415-3-58-01
STRUCTURES 41-150 APPLY TO FPID 445415-2-58-01

- 1 CURB INLET AT
PAVEMENT = 63.88'
SW INV. = 58.92'
NW INV. = 56.80'
SE INV. = 56.89'
- 2 DRAINAGE MANHOLE
TOP = 65.23'
NW INV. = 57.73'
SE INV. = 57.88'
- 3 CURB INLET AT
PAVEMENT = 63.72'
SW INV. = 60.34'
NW INV. = 58.88'
SE INV. = 59.24'
- 4 CURB INLET AT
PAVEMENT = 63.87'
SW INV. = 59.98'
NW INV. = 59.66'
- 5 8" PVC
INV. = 62.31'
INV. = 62.36'
- 6 19"X30" CMP
INV. = 61.28'
INV. = 60.98'
- 7 18" CMP
INV. = 60.33'
INV. = 60.15'
- 8 18" CMP
INV. = 59.25'
INV. = 59.06'
- 9 18" CMP
INV. = 58.73'
INV. = 58.43'
- 10 DRAINAGE INLET
TOP = 61.17'
SW INV. = 58.08'
NW INV. = 58.80'
SE INV. = 58.90'
- 11 19"X30" CMP
INV. = 58.41'
INV. = 58.47'
- 12 DRAINAGE INLET
TOP = 60.87'
N. INV. = 58.67'
NW INV. = 58.70'
SE INV. = 58.70'
- 13 19"X30" CMP
INV. = 58.98'
- 14 24" CMP
INV. = 57.34'
- 15 18" CMP
INV. = 55.71'
INV. = 56.09'
- 16 18" RCP
INV. = 54.76'
INV. = 54.64'
- 17 CONCRETE HEADWALL
TOP = 60.21'
E. INV. = 49.28'
C. INV. = 49.28'
W. INV. = 49.28'
- 18 CONCRETE HEADWALL
TOP = 60.21'
E. INV. = 49.24'
C. INV. = 49.19'
W. INV. = 49.16'
- 19 30" CMP
INV. = 54.30'
INV. = 54.29'
- 20 24" RCP
INV. = 53.97'
- 21 CONTROL STRUCTURE
TOP = 57.11'
N. INV. = 53.96'
V-NOTCH INV. = 54.16'
- 22 24"X38" RCP
INV. = 54.51'
INV. = 54.24'
- 23 24"X38" RCP
INV. = 54.57'
INV. = 54.35'
- 24 24" RCP
INV. = 54.38'
INV. = 54.15'
- 25 24" RCP
INV. = 54.11'
INV. = 54.51'
- 26 36" RCP
INV. = 55.06'
INV. = 55.10'
- 27 24" RCP
INV. = 54.46'
- 28 24" RCP
INV. = 54.70'
- 29 DRAINAGE INLET
TOP = 57.95'
NW INV. = 54.75'
SE INV. = 54.85'
- 30 24" RCP
INV. = 54.89'
INV. = 54.75'
- 31 24" RCP
INV. = 55.04'
INV. = 55.17'
- 32 15" CMP
INV. = 58.49'
INV. = 56.86'
- 33 15" CMP
INV. = 58.71'
INV. = 56.18'
- 34 24" HDPE
INV. = 57.57'
INV. = 57.31'
- 35 19"X30" RCP
INV. = 58.49'
INV. = 58.11'
- 36 24" CMP
INV. = 58.72'
INV. = 58.72'
- 37 DRAINAGE INLET
TOP = 66.92'
NW INV. = 64.32'
SW INV. = 63.95'
SLOT INV. = 65.92'
- 38 24" RCP
INV. = 63.56'
- 39 24" RCP
CONTROL STRUCTURE
TOP = 69.08'
NE INV. = 64.15'
SLOT INV. = 65.58'
- 40 14"X23" RCP
INV. = 67.41'
INV. = 67.28'
- 41 15" HDPE
INV. = 64.25'
INV. = 64.52'
- 42 15" HDPE
INV. = 63.73'
INV. = 63.59'
- 43 18" RCP
INV. = 63.49'
INV. = 63.49'
- 44 CONCRETE HEADWALL
INV. = 60.29'
24" RCP
- 45 CONCRETE HEADWALL
INV. = 60.55'
24" RCP
- 46 24" HDPE
INV. = 60.90'
INV. = 60.62'
- 47 18" CMP
INV. = 62.42'
INV. = 61.94'
- 48 18" RCP
INV. = 61.95'
INV. = 62.28'
- 49 12" CMP
INV. = 63.24'
INV. = 62.92'
- 50 15" CMP
INV. = 62.90'
INV. = 63.08'
- 51 18" HDPE
INV. = 63.32'
INV. = 63.08'
- 52 18" CMP
INV. = 63.45'
INV. = 63.40'
- 53 18" HDPE
INV. = 63.34'
INV. = 63.24'
- 54 15" CMP
INV. = 63.53'
- 55 DRAINAGE INLET
TOP = 65.79'
NW INV. = 63.64'
NE INV. = 63.75'
SE INV. = 63.85'
- 56 12" HDPE
INV. = 64.16'
- 57 12" HDPE
INV. = 64.30'
- 58 15" CMP
INV. = 63.79'
INV. = 64.28'
- 59 15" HDPE
INV. = 63.92'
INV. = 63.85'
- 60 14"X23" CMP
INV. = 65.99'
INV. = 66.47'
- 61 24" HDPE
INV. = 63.99'
INV. = 66.25'
- 62 15" HDPE
INV. = 68.51'
- 63 18" RCP
INV. = 66.37'
INV. = 66.23'
- 64 18" RCP
INV. = 64.61'
INV. = 63.56'
- 65 12" CMP
INV. = 65.42'
INV. = 65.16'
- 66 24" RCP
INV. = 64.15'
- 67 DRAINAGE MANHOLE
TOP = 67.81'
S. INV. = 61.03'
E. INV. = 60.96'
W. INV. = 61.35'
- 68 CURB INLET AT
PAVEMENT = 74.00'
NO ACCESS TO PIPE
18" RCP
- 69 CONCRETE FLUME
- 70 DRAINAGE INLET
TOP = 65.20'
N. INV. = 63.85'
E. INV. = 60.26'
W. INV. = 60.23'
- 71 CONTROL STRUCTURE
TOP = 67.66'
S. INV. = 64.44'
V-NOTCH INV. = 64.59'
- 72 CURB INLET AT
PAVEMENT = 80.95'
CENTER INV. = 77.03'
- 73 DRAINAGE INLET
TOP = 81.88'
CENTER INV. = 70.25'
- 74 36" RCP
INV. = 59.72'
- 75 CONCRETE FLUME
- 76 CURB INLET AT
PAVEMENT = 80.86'
18" RCP
- 77 CONCRETE FLUME
- 78 DRAINAGE INLET
TOP = 77.20'
NE INV. = 69.05'
SW INV. = 69.25'
- 79 U-END HEADWALL
INV. = 60.75'
15" RCP
- 80 15" RCP
INV. = 59.10'
- 81 CURB INLET AT
15" RCP
- 82 CONCRETE FLUME
- 83 18" CMP
INV. = 58.10'
INV. = 57.97'
- 84 CONCRETE HEADWALL
N. INV. = 53.59'
S. INV. = 53.61'
- 85 DRAINAGE MANHOLE
TOP = 62.90'
NW INV. = 52.80'
SE INV. = 49.60'
- 86 FLASH BOARD RISER
36" CMP
INV. = 50.95'
TOP BOARD
ELEV. = 54.80'
- 87 DRAINAGE INLET
TOP = 62.50'
SE INV. = 60.20'
- 88 12" RCP
INV. = 55.95'
- 89 DRAINAGE INLET
TOP = 62.49'
NW INV. = 60.62'
- 90 12" RCP
INV. = 55.34'
- 91 12" CMP
INV. = 56.80'
- 92 36" CMP
INV. = 50.28'
- 93 FLASH BOARD RISER
36" CMP
INV. = 50.24'
TOP BOARD
ELEV. = 54.46'
- 94 18" RCP
INV. = 59.49'
- 95 DRAINAGE INLET
TOP = 63.24'
NW INV. = 60.04'
SE INV. = 59.99'
- 96 18" RCP
INV. = 59.84'
- 97 12"X18" RCP
INV. = 59.92'
INV. = 59.89'
- 98 CONTROL STRUCTURE
TOP = 63.13'
SW INV. = 60.15'
SLOT INV. = 60.88'
- 99 18" RCP
INV. = 60.04'
- 100 CONCRETE HEADWALL
12"X18" RCP
INV. = 61.36'
- 101 CONCRETE HEADWALL
INV. = 61.77'
12"X18" RCP
- 102 12"X18" RCP
INV. = 65.15'
INV. = 64.39'
- 103 CURB INLET AT
PAVEMENT = 69.18'
S. INV. = 64.32'
18" RCP
- 104 CURB INLET AT
PAVEMENT = 68.82'
N. INV. = 64.18'
E. INV. = 64.12'
18" RCP
- 105 CONCRETE HEADWALL
INV. = 65.44'
12"X18" RCP
- 106 12"X18" RCP
INV. = 65.92'
- 107 DRAINAGE INLET
TOP = 66.78'
SE INV. = 65.15'
SW INV. = 65.16'
NW INV. = 65.12'
12"X18" RCP
- 108 DRAINAGE MANHOLE
TOP = 68.04'
NW INV. = 64.83'
SE INV. = 63.88'
- 109 CURB INLET AT
PAVEMENT = 67.61'
S. INV. = 63.45'
W. INV. = 63.73'
- 110 CURB INLET AT
PAVEMENT = 67.71'
N. INV. = 63.25'
E. INV. = 62.91'
W. INV. = 63.44'
- 111 CURB INLET AT
PAVEMENT = 67.29'
S. INV. = 62.72'
18" RCP
- 112 CURB INLET AT
PAVEMENT = 66.95'
N. INV. = 62.51'
W. INV. = 62.20'
- 113 DRAINAGE INLET
TOP = 67.64'
N. INV. = 62.97'
S. INV. = 63.00'
- 114 DRAINAGE MANHOLE
TOP = 66.61'
- 115 DRAINAGE MANHOLE
TOP = 64.53'
- 116 CURB INLET AT
PAVEMENT = 67.53'
PLAN & PROFILE SHEETS
PIPES TAKEN FROM HWA
- 117 CURB INLET AT
PAVEMENT = 67.53'
PLAN & PROFILE SHEETS
PIPES TAKEN FROM HWA
- 118 DRAINAGE MANHOLE
TOP = 67.30'
PIPES TAKEN FROM HWA
PLAN & PROFILE SHEETS
- 119 DRAINAGE INLET
TOP = 67.92'
SW INV. = 63.21'
- 120 DRAINAGE MANHOLE
TOP = 65.64'
SE INV. = 58.32'
S. INV. = 61.30'
BOTTOM INV. = 51.84'
- 121 DRAINAGE MANHOLE
TOP = 67.04'
NW INV. = 59.09'
SE INV. = 64.54'
- 122 CURB INLET AT
PAVEMENT = 65.61'
N. INV. = 51.34'
S. INV. = 51.67'
- 123 54" RCP
INV. = 51.06'
- 124 24" RCP
INV. = 57.41'
- 125 CURB INLET AT
PAVEMENT = 64.95'
N. INV. = 59.60'
S. INV. = 59.91'
24" RCP
- 126 CURB INLET AT
PAVEMENT = 65.16'
N. INV. = 60.06'
15" RCP
- 127 18" RCP
INV. = 64.23'
- 128 DRAINAGE INLET
TOP = 65.91'
N. INV. = 61.81'
12" PVC
- 129 12" PVC
INV. = 64.53'
- 130 DRAINAGE INLET
TOP = 65.58'
E. INV. = 62.73'
W. INV. = 62.67'
- 131 CONCRETE HEADWALL
INV. = 62.60'
18" RCP
- 132 24" HDPE
INV. = 62.82'
INV. = 62.06'
- 133 CONCRETE HEADWALL
INV. = 51.00'
8' X 12' BOX CULVERT
- 134 CONCRETE HEADWALL
INV. = 50.89'
8' X 12' BOX CULVERT
- 135 CONTROL STRUCTURE
TOP = 68.08'
SW INV. = 60.39'
- 136 24" RCP
INV. = 58.38'
- 137 19"X30" RCP
INV. = 65.58'
INV. = 65.93'
- 138 18" CMP
INV. = 63.45'
INV. = 66.86'
- 139 DRAINAGE MANHOLE
TOP = 69.11'
NW INV. = 61.62'
E. INV. = 61.61'
- 140 DRAINAGE INLET
TOP = 68.51'
E. INV. = 61.85'
W. INV. = 61.81'
24" RCP
- 141 DRAINAGE INLET
TOP = 68.48'
W. INV. = 62.43'
18" RCP
- 142 12"X18" RCP
INV. = 66.75'
INV. = 66.87'
- 143 15" RCP
INV. = 67.50'
- 144 DRAINAGE INLET
TOP = 70.35'
W. INV. = 67.83'
E. INV. = 67.55'
SLOT INV. = 69.51'
15" RCP
- 145 DRAINAGE INLET
V GRATE
TOP = 70.25'
(NO BOTTOM)
- 146 15" RCP
INV. = 68.10'
- 147 DRAINAGE INLET
CONCRETE FILLED
12"X18" RCP
INV. = 69.77'
- 148 DRAINAGE INLET
TOP = 70.98'
S. INV. = 68.75'
8" PVC
- 149 DRAINAGE MANHOLE
TOP = 73.39'
CENTER INV. = 64.24'
(FULL OF WATER)
- 150 DRAINAGE INLET
TOP = 72.28'
N. INV. = 69.27'
E. INV. = 68.77'
15" RCP
30" CMP

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

EXISTING DRAINAGE
STRUCTURES


SHEET
NO.

10

STRUCTURE NO.	AREA (AC)	STRUCTURE NO.	AREA (AC)
CP-4	0.26	S-161	0.41
CP-5	0.41	S-170	26.13
O-101	2.58		
O-103	7.16		
O-214	4.13		
O-218	2.97		
S-101	0.36		
S-102	0.36		
S-103	0.41		
S-104	0.38		
S-105	0.39		
S-106	0.38		
S-107	0.18		
S-108	0.34		
S-109	0.56		
S-110	0.41		
S-111	0.12		
S-112	0.54		
S-113	0.46		
S-114	0.51		
S-115	0.15		
S-117	0.20		
S-118	0.16		
S-119	0.14		
S-120	0.17		
S-121	0.14		
S-122	0.23		
S-123	0.32		
S-124	0.32		
S-125	0.26		
S-126	0.26		
S-127	0.18		
S-128	0.38		
S-129	0.31		
S-130	0.28		
S-131	0.51		
S-132	0.20		
S-135	0.50		
S-136	0.45		
S-137	0.27		
S-138	0.25		
S-139	0.16		
S-140	0.15		
S-141	0.38		
S-142	0.35		
S-143	0.37		
S-144	0.30		
S-145	0.44		
S-146	0.38		
S-147	0.59		
S-148	0.54		
S-149	0.27		
S-150	0.48		
S-151	0.58		
S-152	0.50		
S-153	0.53		
S-154	0.06		
S-155	0.06		
S-156	0.19		
S-157	0.23		
S-158	0.35		
S-159	0.59		
S-160	0.40		

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



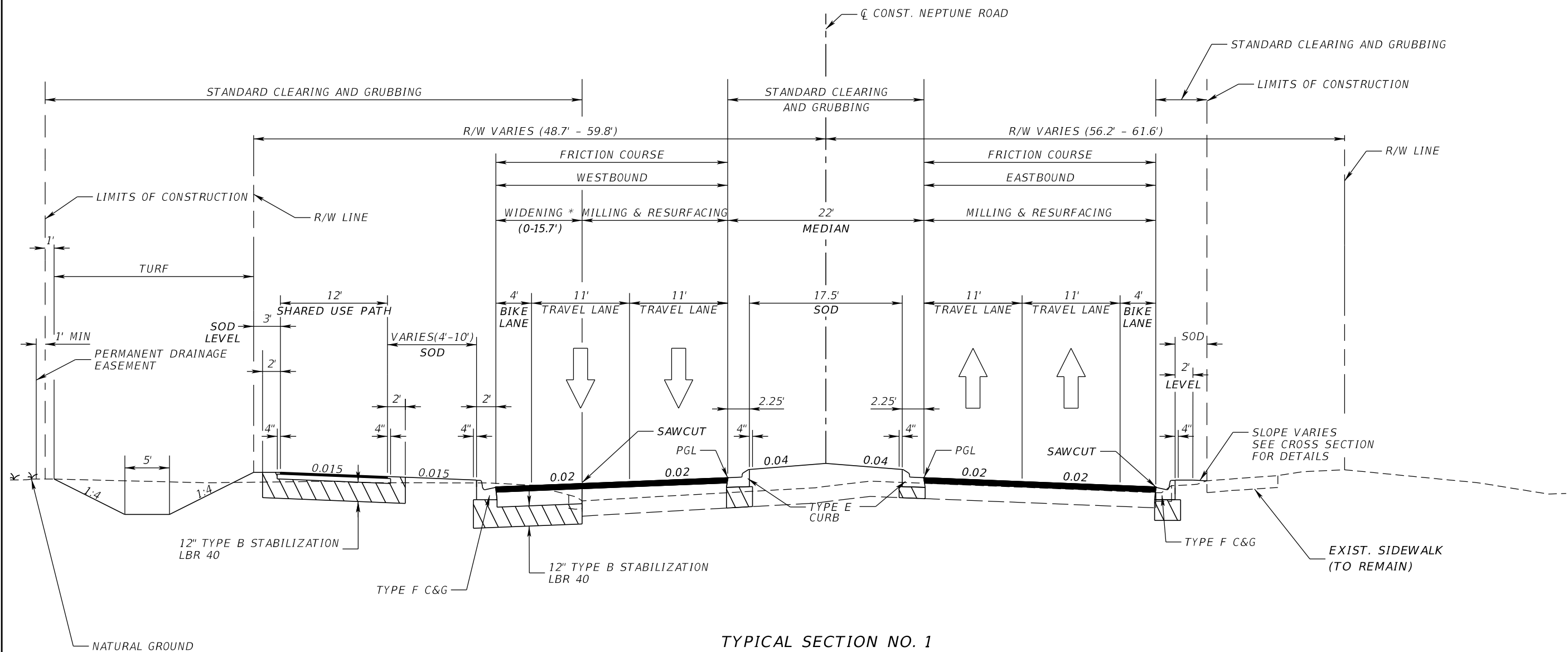
OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

AREA DRAINAGE MAP

SHEET
NO.
11

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



TYPICAL SECTION NO. 1
NEPTUNE ROAD
STA. 0+65.50 TO STA. 6+00.00 (WB)
STA. 0+65.50 TO STA. 7+50.00 (EB)

*ACTUAL WIDTH OF BASE WIDENING MANY VARY DUE TO ACTUAL EXISTING PAVEMENT WIDTH. A UNIFORM WIDTH BASE WIDENING STRIP MAY BE CONSTRUCTED AT NO ADDITIONAL COMPENSATION.

TRAFFIC DATA

CURRENT YEAR = 2020 AADT = 26,000
 ESTIMATED OPENING YEAR = 2025 AADT = 30,000
 ESTIMATED DESIGN YEAR = 2045 AADT = 43,000
 K = 9% D = 57.9% T = 5.10% (24 HOUR)
 DESIGN HOUR T = 2.6%
 DESIGN SPEED = 45 MPH
 POSTED SPEED = 45 MPH

MILLING
 MILL EXISTING ASPHALT PAVEMENT (1 1/2" AVG. DEPTH)

RESURFACING
 FRICTION COURSE FC-12.5 (TRAFFIC) (1 1/2") (PG76-22)


OVERBUILD
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (5" AVG.) (PG 76-22)

SHARED USE PATH
 OPTIONAL BASE GROUP 1 WITH
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2")

WIDENING
 OPTIONAL BASE GROUP 9 WITH
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2 1/2") (PG 76-22)
 AND FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG 76-22)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

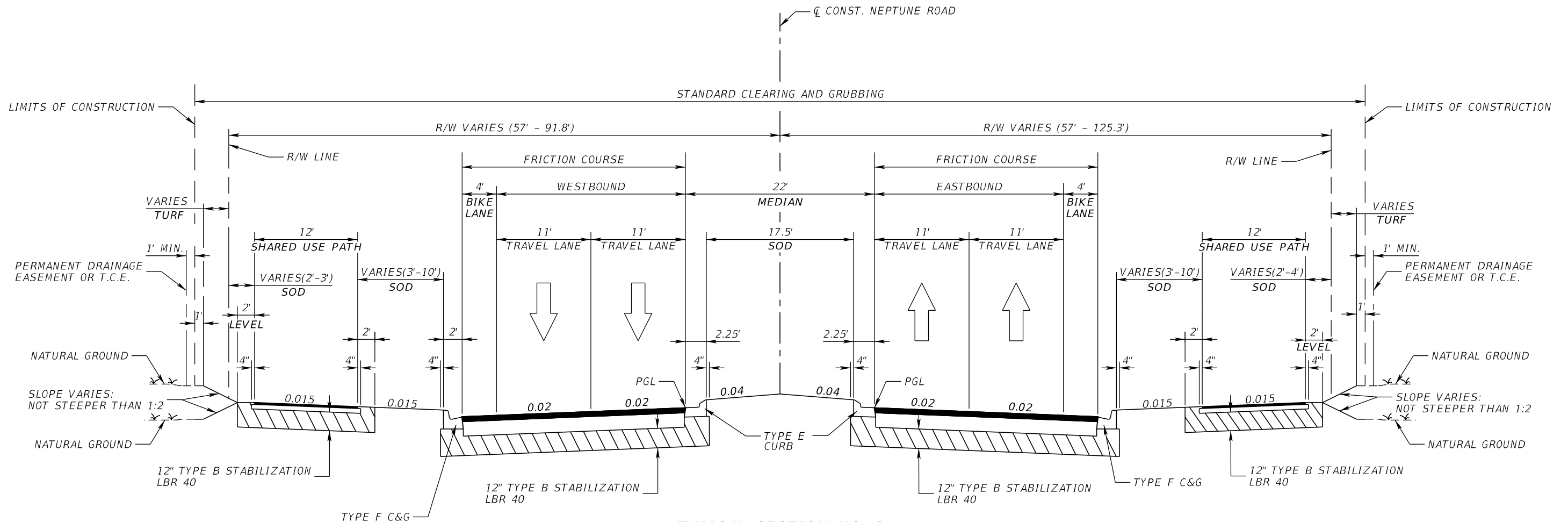


OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
 1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE:(407) 742-0662 FAX:(407) 742-0600

TYPICAL SECTIONS (1)

SHEET NO.
12

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TYPICAL SECTION NO. 2
NEPTUNE ROAD
 STA. 6+00.00 TO STA. 28+00.00 (WB)
 STA. 7+50.00 TO STA. 28+00.00 (EB)
 STA. 30+50.00 TO STA. 74+92.75 (WB & EB)

SHARED USE PATH

OPTIONAL BASE GROUP 1 WITH
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2")

TRAFFIC DATA

CURRENT YEAR	= 2020 AADT = 26,000
ESTIMATED OPENING YEAR	= 2025 AADT = 30,000
ESTIMATED DESIGN YEAR	= 2045 AADT = 43,000
K = 9% D = 57.9% T = 5.10% (24 HOUR)	
DESIGN HOUR T	= 2.6%
DESIGN SPEED	= 45 MPH
POSTED SPEED	= 45 MPH

NEW CONSTRUCTION

STA. 18+00.00 TO STA. 28+00.00
 STA. 30+50.00 TO STA. 53+00.00

OPTIONAL BASE GROUP 9 WITH
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2") (PG 76-22)
 AND FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG 76-22)

NEW CONSTRUCTION

STA. 6+00.00 TO STA. 18+00.00

OPTIONAL BASE GROUP 9 WITH
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2 1/2") (PG 76-22)
 AND FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG 76-22)

NEW CONSTRUCTION

STA. 53+00.00 TO STA. 74+92.75

OPTIONAL BASE GROUP 10 (TYPE B-12.5) WITH
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (4") (PG 76-22)
 AND FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG 76-22)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

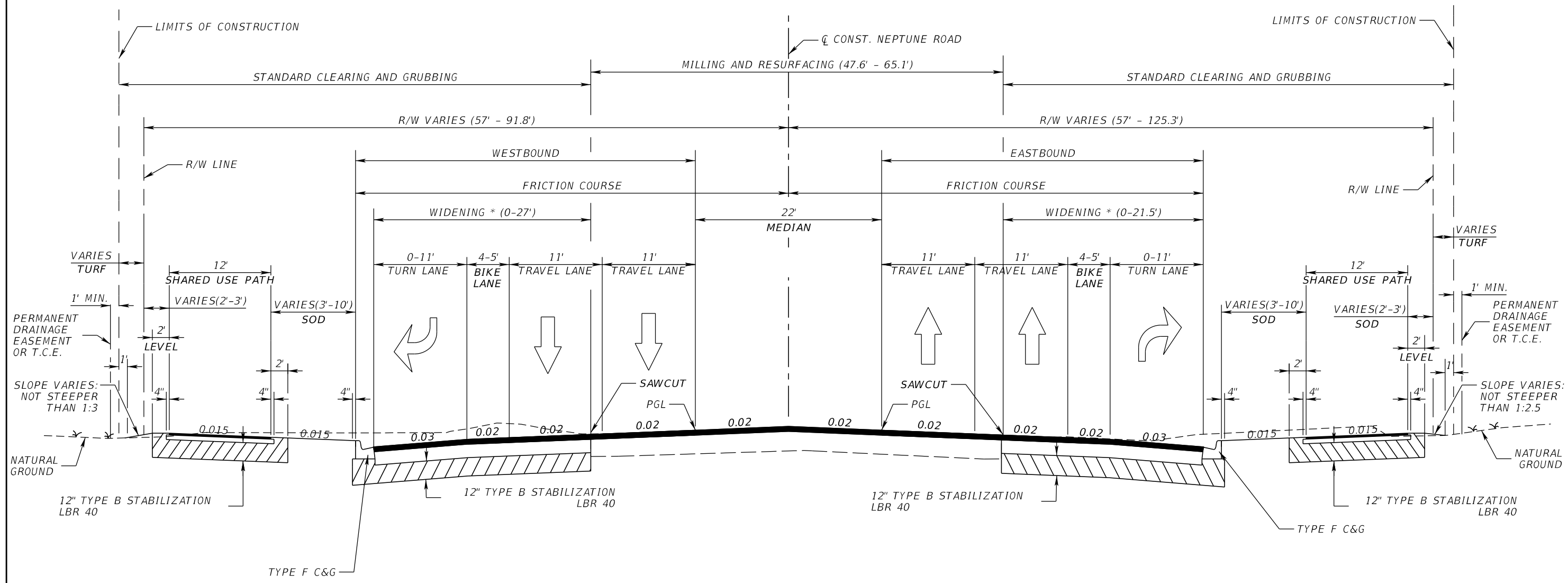


OSCEOLA COUNTY TRANSIT
 AND TRANSPORTATION
 1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE:(407) 742-0662 FAX:(407) 742-0600

TYPICAL SECTIONS (2)

SHEET NO.

13



**TYPICAL SECTION NO. 3
NEPTUNE ROAD
STA. 28+00.00 TO 30+50.00 (WB & EB)**

SHARED USE PATH
OPTIONAL BASE GROUP 1 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2")

TRAFFIC DATA

CURRENT YEAR = 2020 AADT = 26,000
 ESTIMATED OPENING YEAR = 2025 AADT = 30,000
 ESTIMATED DESIGN YEAR = 2045 AADT = 43,000
 K = 9% D = 57.9% T = 5.10% (24 HOUR)
 DESIGN HOUR T = 2.6%
 DESIGN SPEED = 45 MPH
 POSTED SPEED = 45 MPH

MILLING
MILL EXISTING ASPHALT PAVEMENT (1 1/2" AVG. DEPTH)

RESURFACING
FRICITION COURSE FC-12.5 (TRAFFIC) (1 1/2") (PG76-22)


OVERBUILD
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (5" AVG.) (PG 76-22)

*ACTUAL WIDTH OF BASE WIDENING MANY VARY DUE TO ACTUAL EXISTING PAVEMENT WIDTH. A UNIFORM WIDTH BASE WIDENING STRIP MAY BE CONSTRUCTED AT NO ADDITIONAL COMPENSATION.

WIDENING
OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2 1/2") (PG 76-22)
AND FRICITION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG 76-22)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

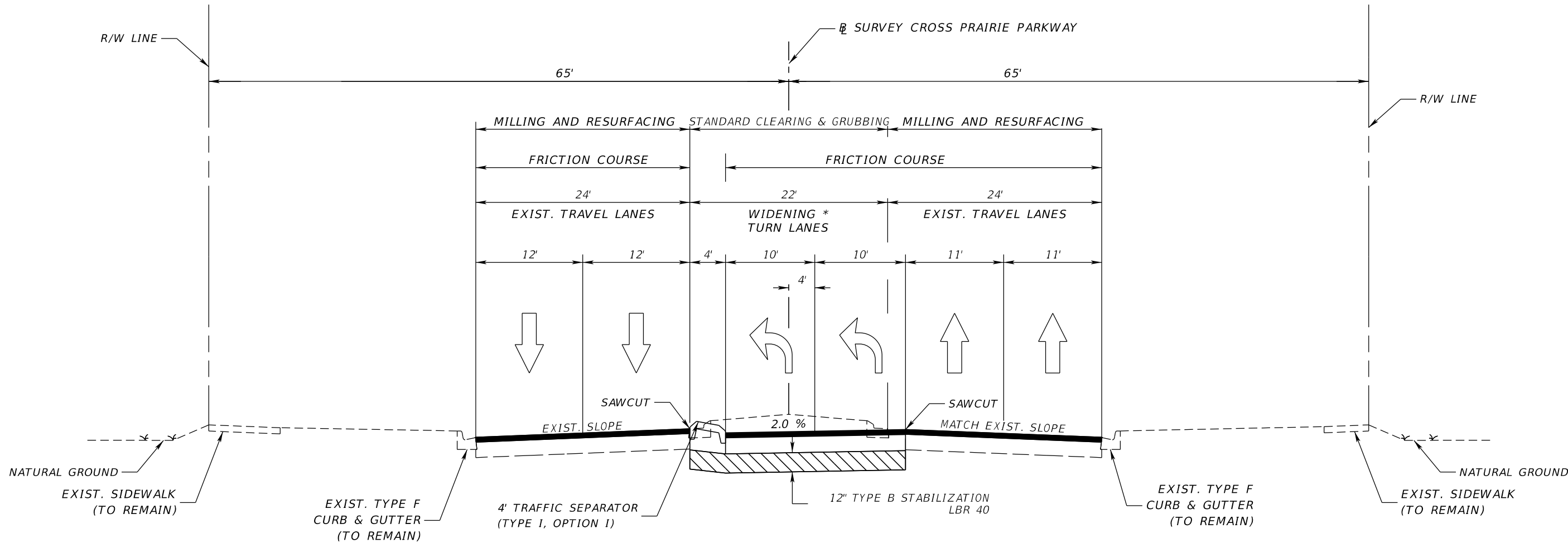


OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
 1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE:(407) 742-0662 FAX:(407) 742-0600

TYPICAL SECTIONS (3)

SHEET NO.
14

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**TYPICAL SECTION NO. 4
CROSS PRAIRIE PARKWAY
STA. 512+46.00 TO STA. 518+67.00**

TRAFFIC DATA

CURRENT YEAR	= 2020 AADT = 4,100
ESTIMATED OPENING YEAR	= 2025 AADT = 20,500
ESTIMATED DESIGN YEAR	= 2045 AADT = 41,000
K = 8% D = 65% T	= 8% (24 HOUR)
DESIGN HOUR T	= 5.2%
DESIGN SPEED	= 30 MPH
POSTED SPEED	= 30 MPH


WIDENING

OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2")
AND FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG 76-22)

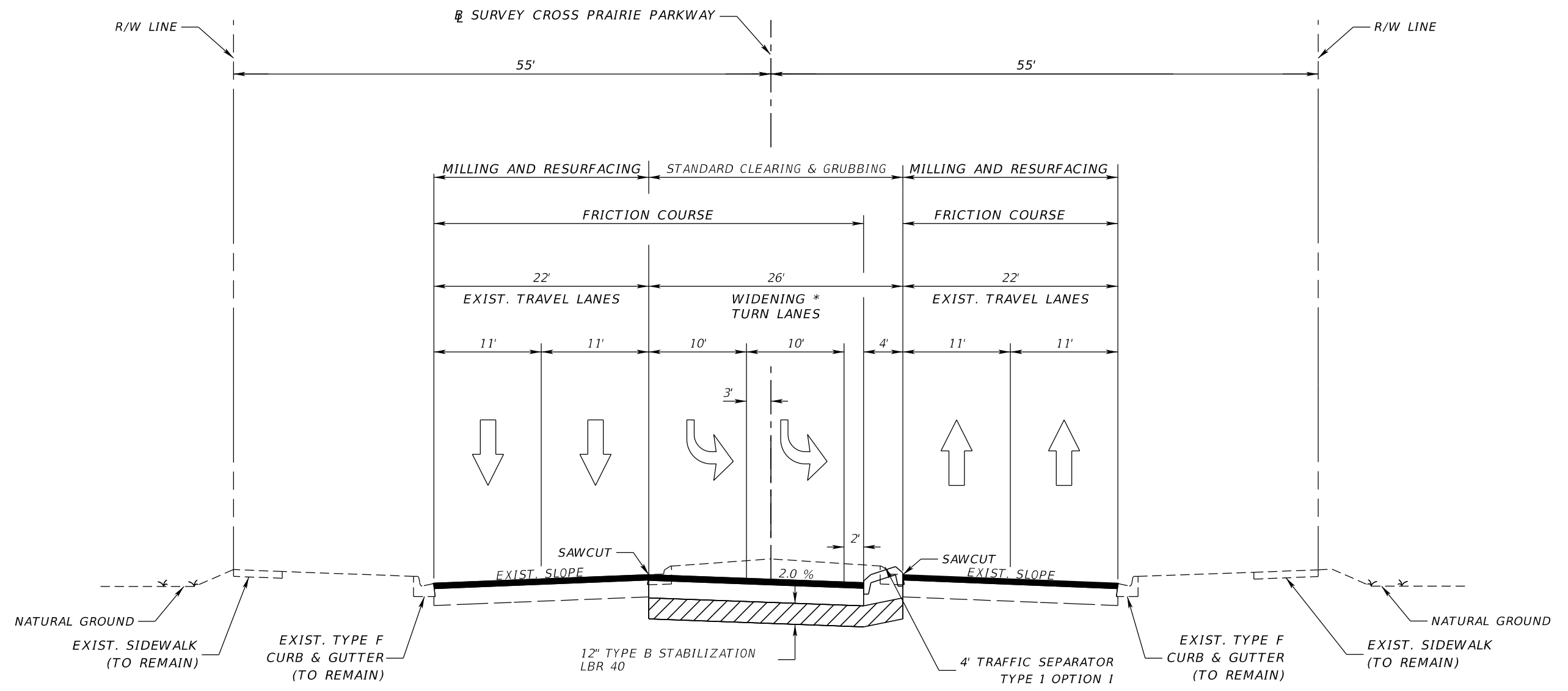
*ACTUAL WIDTH OF BASE WIDENING MANY VARY DUE TO ACTUAL EXISTING PAVEMENT WIDTH. A UNIFORM WIDTH BASE WIDENING STRIP MAY BE CONSTRUCTED AT NO ADDITIONAL COMPENSATION.

MILLING

MILL EXISTING ASPHALT PAVEMENT (1 1/2" AVG. DEPTH)
FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG76-22)

REVISIONS				DONGHANG ZHAO, P.E. P.E. LICENSE NUMBER 72502 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801	 OSCEOLA COUNTY TRANSIT AND TRANSPORTATION 1 COURTHOUSE SQUARE, SUITE 3100 KISSIMMEE, FLORIDA 34741-5488 PHONE:(407) 742-0662 FAX:(407) 742-0600	<p align="center">TYPICAL SECTIONS (4)</p>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				15

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



**TYPICAL SECTION NO. 5
CROSS PRAIRIE PARKWAY
STA. 520+31.22 TO STA. 526+77.22**


*ACTUAL WIDTH OF BASE WIDENING MANY VARY DUE TO ACTUAL EXISTING PAVEMENT WIDTH. A UNIFORM WIDTH BASE WIDENING STRIP MAY BE CONSTRUCTED AT NO ADDITIONAL COMPENSATION.

TRAFFIC DATA

CURRENT YEAR	= 2020 AADT = 4,100
ESTIMATED OPENING YEAR	= 2025 AADT = 20,500
ESTIMATED DESIGN YEAR	= 2045 AADT = 41,000
K = 8% D = 65% T = 8% (24 HOUR)	
DESIGN HOUR T	= 5.2%
DESIGN SPEED	= 30 MPH
POSTED SPEED	= 30 MPH

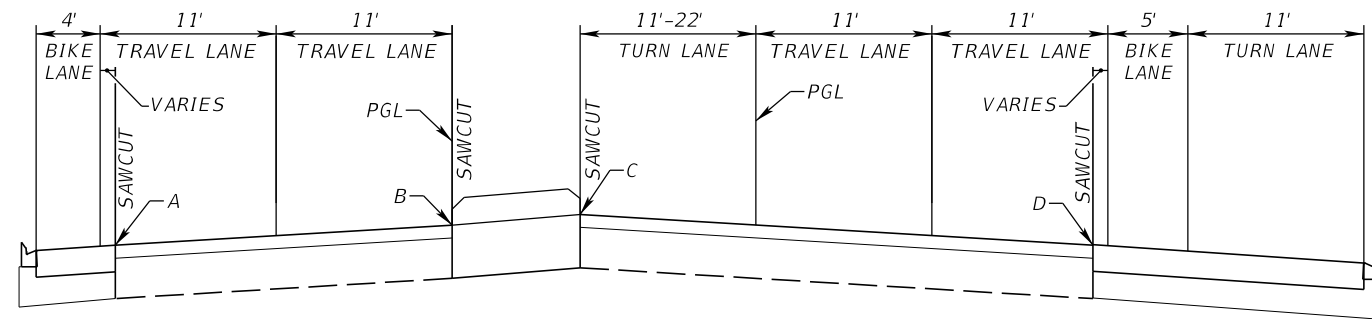
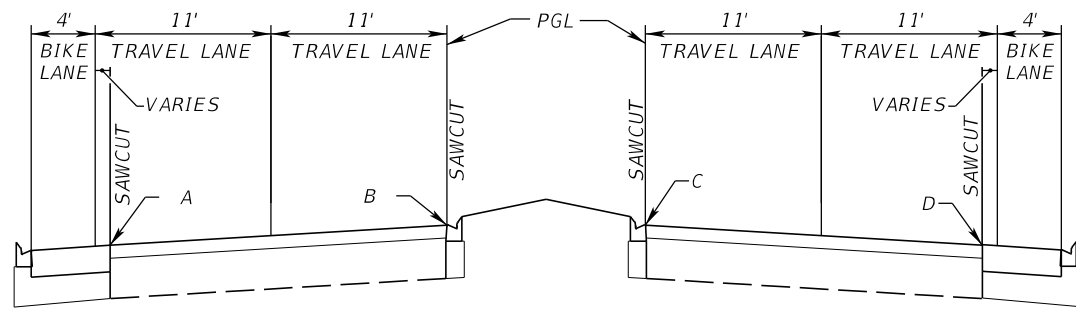
WIDENING
OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2")
AND FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG 76-22)

MILLING
MILL EXISTING ASPHALT PAVEMENT (1 1/2" AVG. DEPTH)
FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG76-22)

REVISIONS		DATE	DESCRIPTION	DONGHANG ZHAO, P.E. P.E. LICENSE NUMBER 72502 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801	 OSCEOLA COUNTY TRANSIT AND TRANSPORTATION 1 COURTHOUSE SQUARE, SUITE 3100 KISSIMMEE, FLORIDA 34741-5488 PHONE:(407) 742-0662 FAX:(407) 742-0600	SHEET NO. 16
DATE	DESCRIPTION					

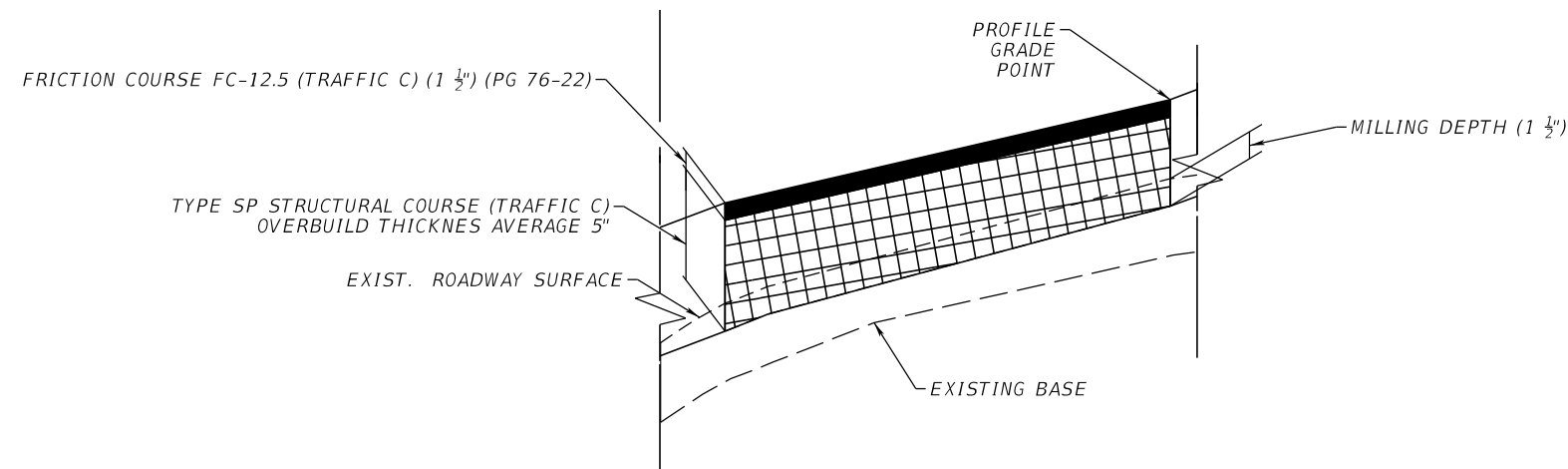
TYPICAL SECTIONS (5)

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STATION	NEPTUNE ROAD					
	PROPOSED OVERBUILD DEPTH				EXISTING CROSS SLOPES	
	A (in)	B (in)	C (in)	D (in)	A-B	C-D
3+50.00	4.3	1.0	0.3	1.3	-0.016	-0.023
4+00.00	4.1	0.9	0.5	1.6	-0.016	-0.024
4+50.00	4.7	1.8	0.0	1.9	-0.015	-0.026
5+00.00	5.6	3.0	0.0	1.8	-0.014	-0.027
5+50.00	7.4	5.1	0.5	1.8	-0.012	-0.024
6+00.00	10.8	8.6	1.7	4.5	-0.011	-0.029
6+50.00			3.9	3.7		-0.019
7+00.00			4.5	3.9		-0.018
7+50.00			7.6	6.1		-0.013

STATION	NEPTUNE ROAD					
	PROPOSED OVERBUILD DEPTH				EXISTING CROSS SLOPES	
	A (in)	B (in)	C (in)	D (in)	A-B	C-D
28+00.00	3.2	3.7	8.3	4.2	-0.002	-0.028
28+50.00	0.7	1.0	5.6	1.6	-0.002	-0.028
29+00.00	0.9	2.1	2.1	-1.7	-0.008	-0.019
29+50.00	1.2	2.2	2.2	0.5	-0.014	-0.025
30+00.00	4.0	4.8	4.8	1.8	-0.015	-0.022
30+50.00	8.4	8.5	8.5	7.6	-0.014	-0.028



NEPTUNE ROAD MAINLINE OVERBUILD AND RESURFACING DETAIL

MIRROR FOR RIGHT SIDE

NOTE: THIS SHEET IS PROVIDED FOR INFORMATION PURPOSE AND FOR ESTIMATING THE OVERBUILD QUANTITIES.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

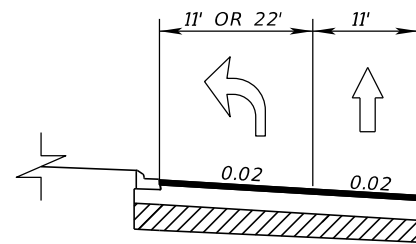


OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

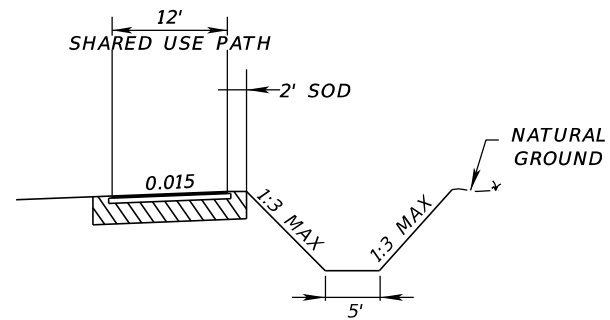
TYPICAL SECTIONS (6)

SHEET NO.

17

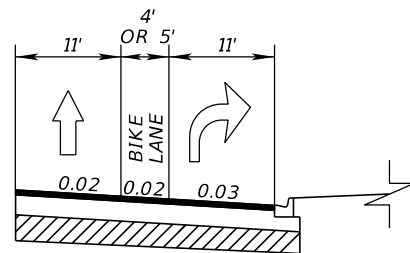


LEFT TURN LANE DETAIL

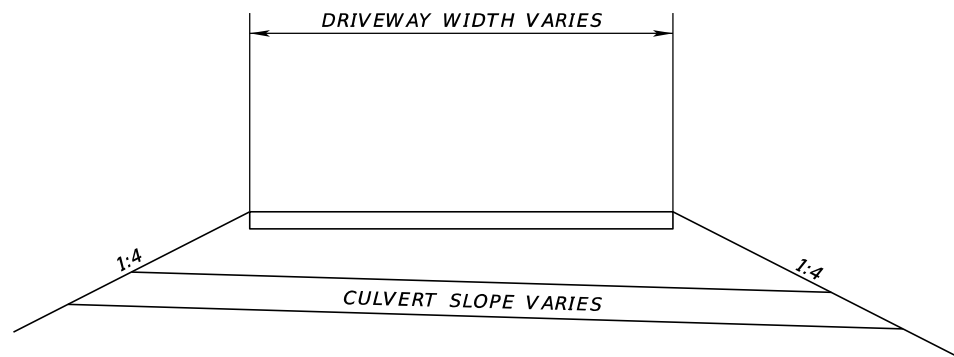


OUTFALL DITCH DETAIL

STA. 4+00.00 TO STA. 13+00.00 (WB)
 STA. 40+00.00 TO STA. 45+00.00 (WB)
 STA. 50+00.00 TO STA. 54+00.00 (WB)

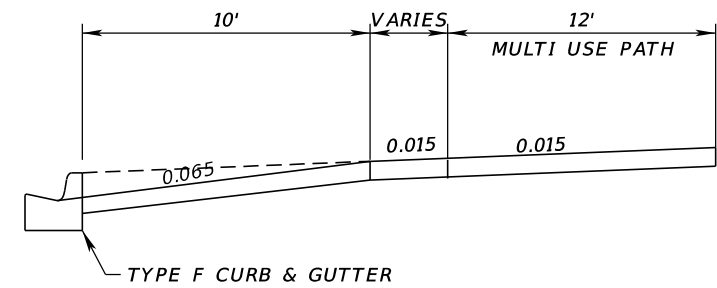


RIGHT TURN LANE DETAIL

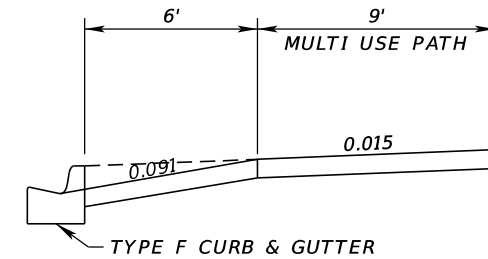


DRIVEWAY CULVERT SECTION DETAILS

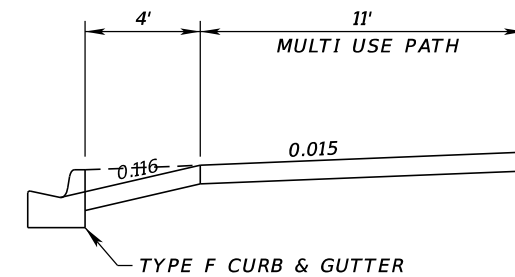
N.T.S.



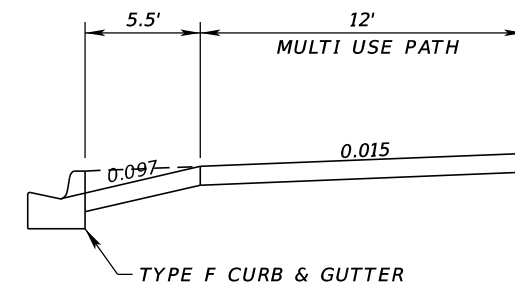
G 8M



M 13M



G 14M



G 15M

MODIFIED CONCRETE DRIVEWAY SECTION DETAILS

N.T.S.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

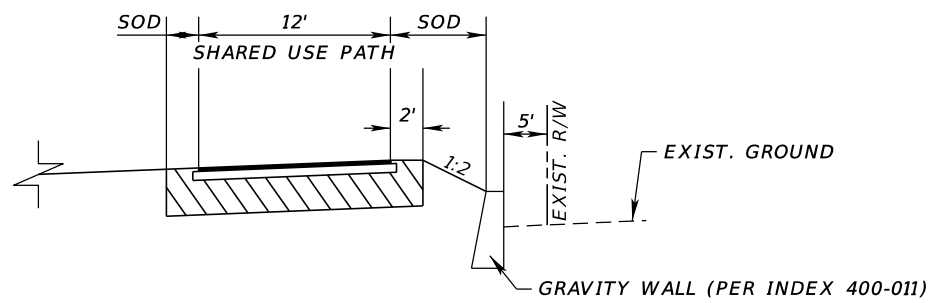


OSCEOLA COUNTY TRANSIT
 AND TRANSPORTATION
 1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE:(407) 742-0662 FAX:(407) 742-0600

TYPICAL SECTION DETAILS (1)

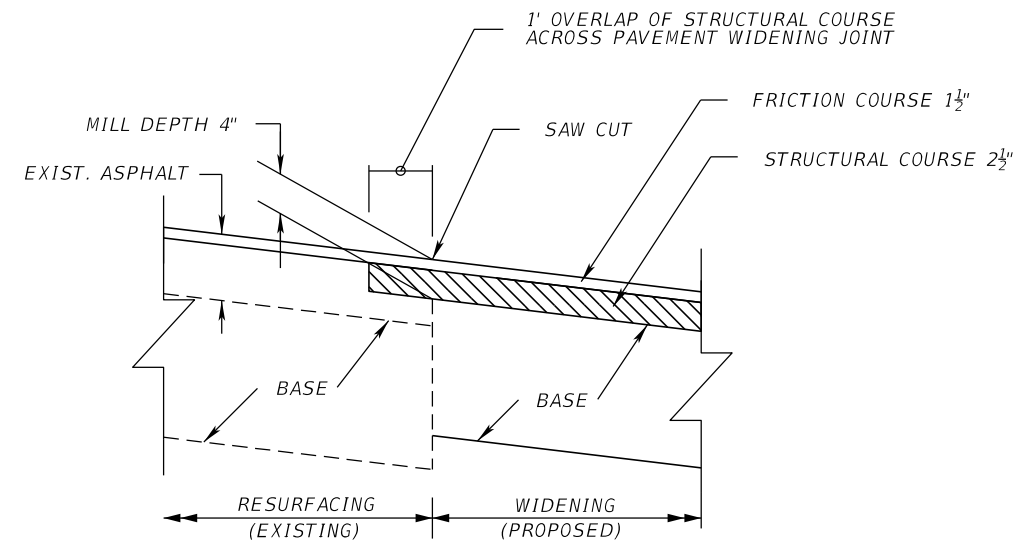
SHEET
NO.

18

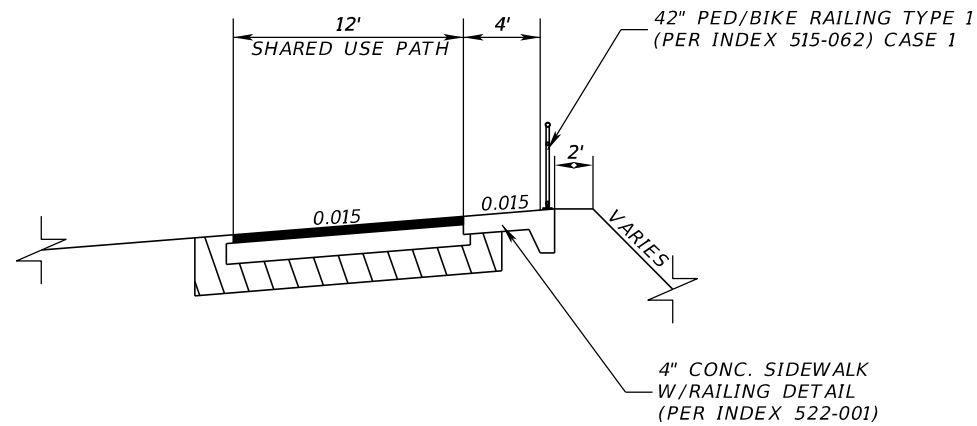


GRAVITY WALL DETAIL

STA. 27+20 TO STA. 27+65 (EB)

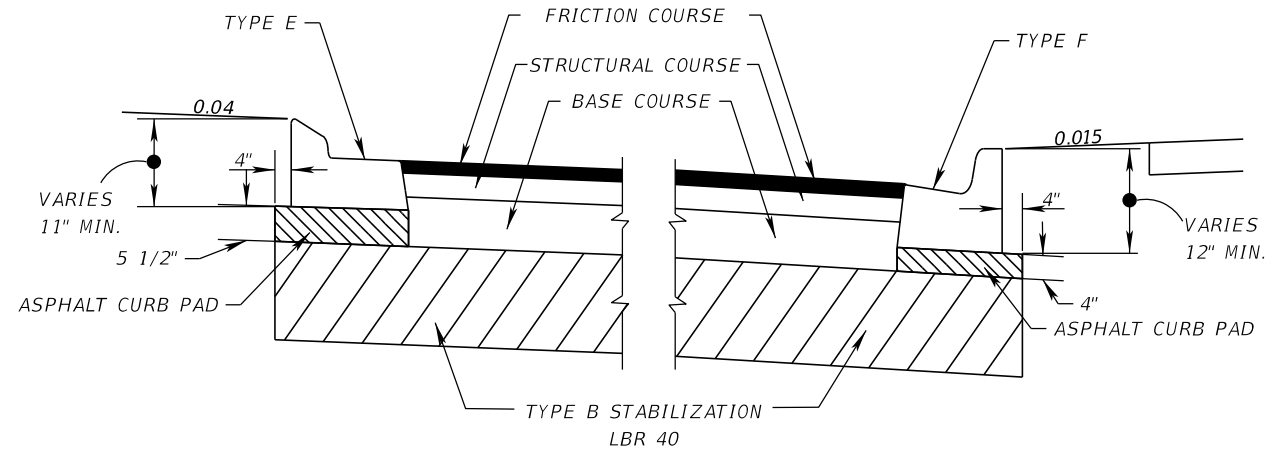


WIDENING DETAIL

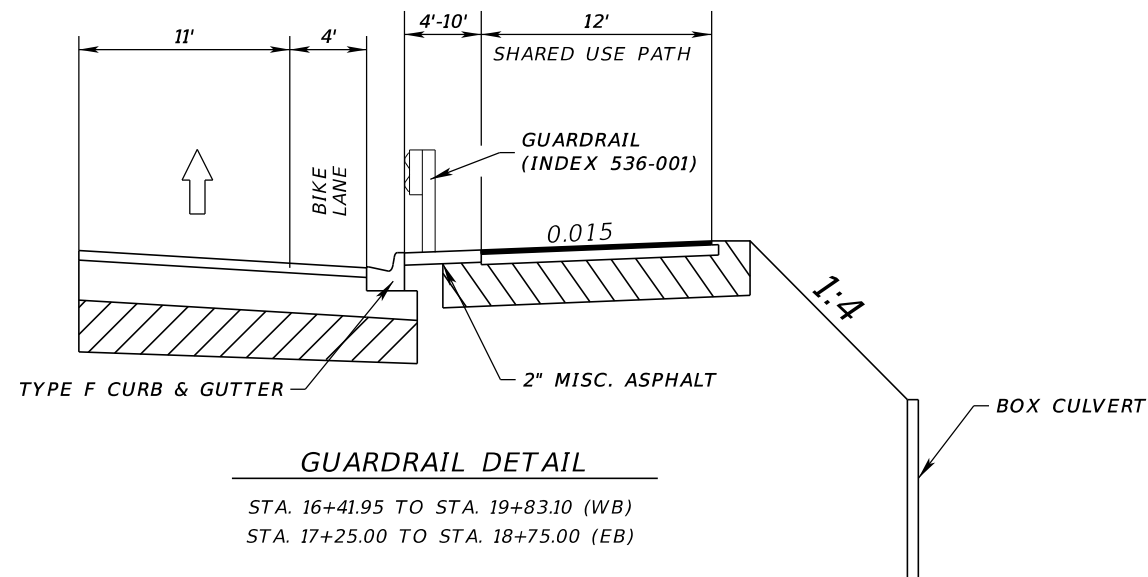


**BACK OF SHARE USE PATH
PED/BIKE RAILING DETAIL**

STA. 17+38.46 TO STA. 19+13.36 (WB)
STA. 17+48.07 TO STA. 19+00.00 (EB)



**DETAIL OF ASPHALT BASE CURB PAD
STA 53+00.00 TO STA 74+92.75**




GUARDRAIL DETAIL

STA. 16+41.95 TO STA. 19+83.10 (WB)
STA. 17+25.00 TO STA. 18+75.00 (EB)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

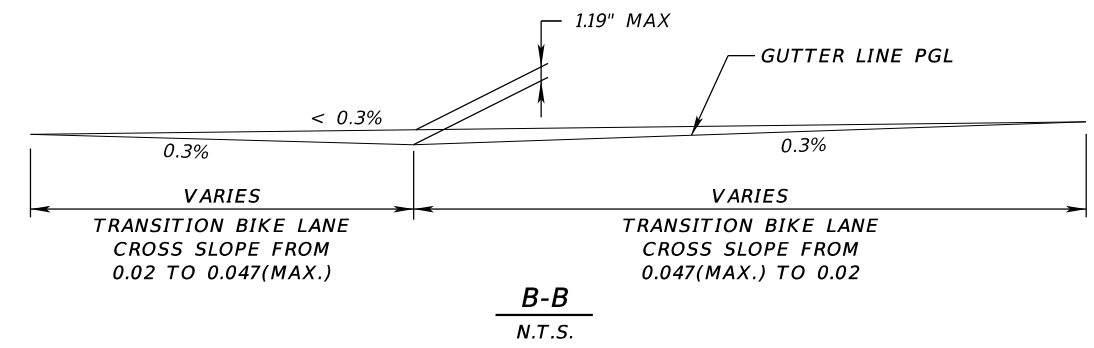
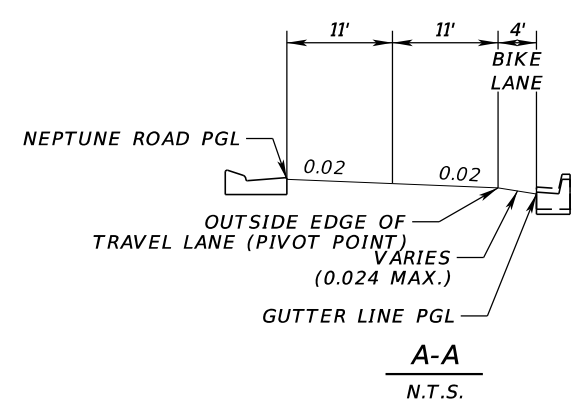
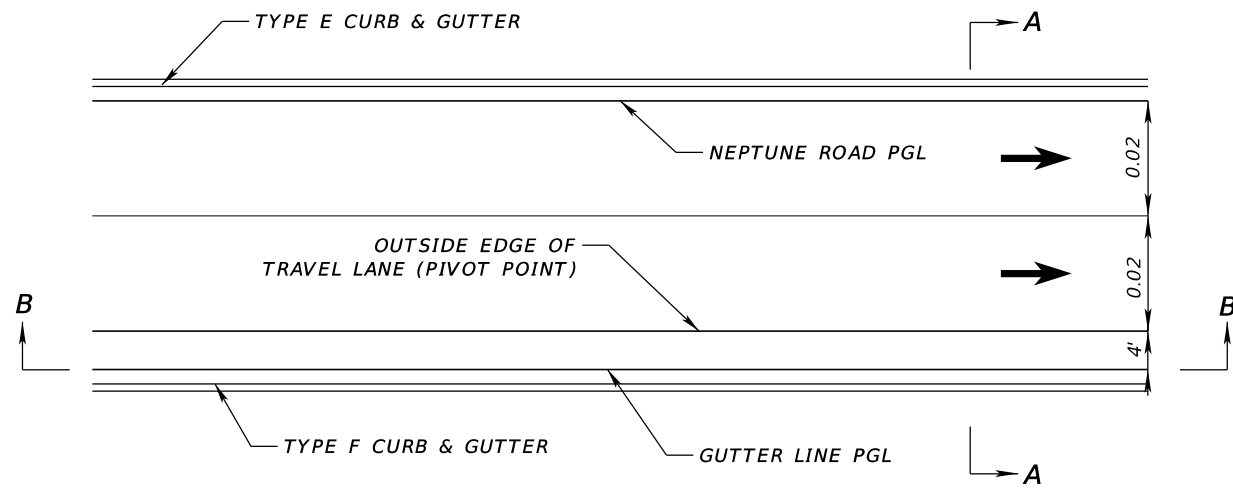
DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

 OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

TYPICAL SECTION DETAILS (2)

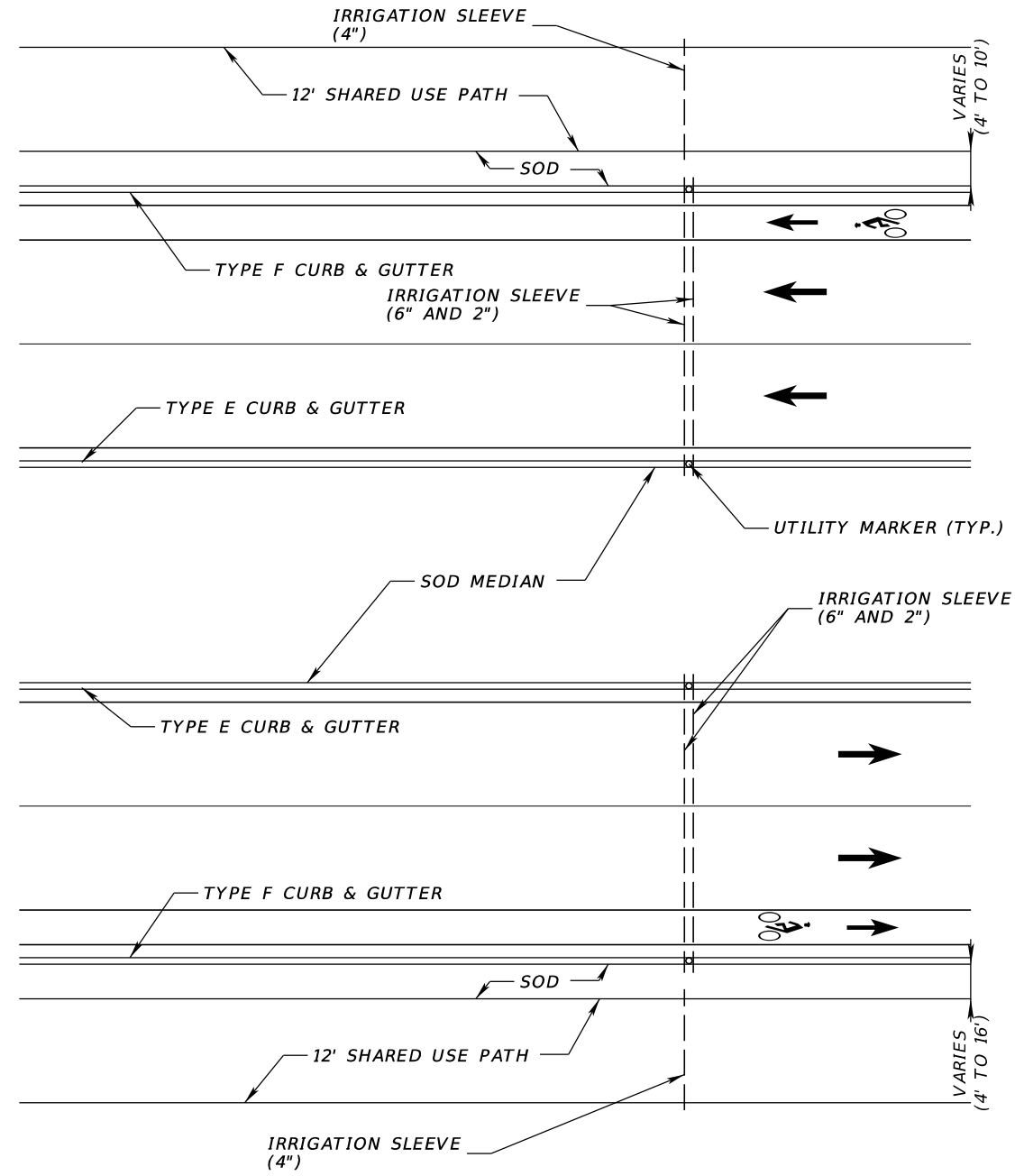
SHEET NO.
19

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**BIKE LANE ROCKING DETAIL
WHEN PGL < 0.3%**

STA. 5+11.00 TO STA. 6+43.50 (WB & EB)



**IRRIGATION SLEEVE DETAILS
N.T.S.**

NOTE:

1. SEE ROADWAY PLAN SHEETS FOR LOCATIONS OF SLEEVE CROSSINGS.
2. IRRIGATION SLEEVES SHALL BE SCHEDULE 40 PVC AND SHALL BE INSTALLED PER INDEX 591-001.
3. ALL SLEEVE ENDS SHALL BE CAPPED TO PREVENT DEBRIS FROM ENTERING.
4. INSTALL A BLANK, BRONZE UTILITY MARKER AT THE END OF EACH SLEEVE. MARKERS TO BE INSTALLED FLUSH WITH TOP OF CURB.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE: (407) 742-0662 FAX: (407) 742-0600

TYPICAL SECTION DETAILS (3)


SHEET
NO.
20

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QTY.	STRUCT. No.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN					CURB INLETS						MANHOLES		
						ROUND					P-5	J-5	J-5	P-6	J-6	P-7	P-8	J-8	J-8
						15"	18"	24"	30"	36"	<10'	<10'	>10'	<10'	<10'	<10'	<10'	<10'	PARTIAL
P	CS-100	19+56.65	LT.	Inlet, Pipe	1				65										
F																			
P	CS-101	19+56.85	LT.	MES	1														
F																			
P	0-101	13+00.00	LT.	Inlet, Pipe	1		18												
F																			
P	0-102	13+00.00	LT.	Manhole, Pipe	1			315									1		
F																			
P	0-103	15+99.00	LT.	MES, Pipe	1				24										
F																			
P	0-104	16+15.00	LT.	Manhole, Pipe	1				85									1	
F																			
P	0-105	17+00.00	LT.	Manhole, Pipe	1				109									1	
F																			
P	0-219	61+70.59	RT.	Inlet, Pipe	1			33											
F																			
P	S-101	17+75.00	LT.	Inlet, Pipe	1				91			1							
F																			
P	S-101A	1101+30.53	LT.	Manhole, Pipe	1					131									1
F		POND100A																	
P	S-101B	1102+58.70	LT.	Manhole, Pipe	1					271									1
F		POND100A																	
P	S-101C	1105+29.71	LT.	Manhole, Pipe	1					34									1
F		POND100A																	
P	S-101OUT	1105+23.00	LT.	MES	1														
F		POND100A																	
P	S-102	17+75.00	RT.	Inlet, Pipe	1		73					1							
F																			
P	S-103	15+00.00	LT.	Inlet, Pipe	1				272			1							
F																			
P	S-104	15+00.00	RT.	Inlet, Pipe	1		73					1							
F																			
P	S-105	12+00.00	LT.	Inlet, Pipe	1			297				1							
F																			
P	S-106	12+00.00	RT.	Inlet, Pipe	1		73					1							
F																			
P	S-107	8+00.00	LT.	Inlet, Pipe	1			397				1							
F																			
P	S-108	6+50.00	RT.	Inlet, Pipe	1		69					1							
F																			
P	S-109	5+77.28	LT.	Inlet, Pipe	1		220						1						
F																			
P	S-110	5+77.28	RT.	Inlet, Pipe	1		70						1						
F																			
P	S-111	4+00.00	LT.	Inlet, Pipe	1		175					1							
F																			
P	S-112	21+79.00	LT.	Inlet, Pipe	1				78				1						
F																			
P	S-112OUT	21+79.00	LT.	MES	1														
F																			
P	S-113	21+00.00	RT.	Inlet, Pipe	1		197					1							
F																			
SHEET TOTALS				PLAN QUANTITY		968	1042	646	514	9	1	1	2				2	4	
				FINAL QUANTITY															

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600


SUMMARY OF DRAINAGE STRUCTURES (1A)

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

QTY.	STRUCT. No.	STATION	SIDE	DESCRIPTION	BARRELS	BARRIER WALL INLET	DITCH BOTTOM INLETS				SIDE DRAIN MES	CROSS DRAIN MES	CONCRETE ENDWALLS	SODDING	REMARKS
							J-C	C MOD	D	D MOD					
							<10'	<10'	<10'	<10'	ROUND	ROUND	SINGLE		
P	CS-100	19+56.65	LT.	Inlet, Pipe	1					30"	36"	36"	SY		
F															
P	CS-101	19+56.85	LT.	MES	1					1			13		
F															
P	0-101	13+00.00	LT.	Inlet, Pipe	1										
F															
P	0-102	13+00.00	LT.	Manhole, Pipe	1										
F															
P	0-103	15+99.00	LT.	MES, Pipe	1					1				1:4	
F															
P	0-104	16+15.00	LT.	Manhole, Pipe	1										
F															
P	0-105	17+00.00	LT.	Manhole, Pipe	1										
F															
P	0-219	61+70.59	RT.	Inlet, Pipe	1		1								
F															
P	S-101	17+75.00	LT.	Inlet, Pipe	1										
F															
P	S-101A	1101+30.53	LT.	Manhole, Pipe	1										
F		POND100A													
P	S-101B	1102+58.70	LT.	Manhole, Pipe	1										
F		POND100A													
P	S-101C	1105+29.71	LT.	Manhole, Pipe	1										
F		POND100A													
P	S-101OUT	1105+23.00	LT.	MES	1						1			1:2	
F		POND100A													
P	S-102	17+75.00	RT.	Inlet, Pipe	1										
F															
P	S-103	15+00.00	LT.	Inlet, Pipe	1										
F															
P	S-104	15+00.00	RT.	Inlet, Pipe	1										
F															
P	S-105	12+00.00	LT.	Inlet, Pipe	1										
F															
P	S-106	12+00.00	RT.	Inlet, Pipe	1										
F															
P	S-107	8+00.00	LT.	Inlet, Pipe	1										
F															
P	S-108	6+50.00	RT.	Inlet, Pipe	1										
F															
P	S-109	5+77.28	LT.	Inlet, Pipe	1										
F															
P	S-110	5+77.28	RT.	Inlet, Pipe	1										
F															
P	S-111	4+00.00	LT.	Inlet, Pipe	1										
F															
P	S-112	21+79.00	LT.	Inlet, Pipe	1										
F															
P	S-112OUT	21+79.00	LT.	MES	1						1			1:4	
F															
P	S-113	21+00.00	RT.	Inlet, Pipe	1										
F															
SHEET TOTALS							1		1	1	2	2		13	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

**SUMMARY OF
DRAINAGE STRUCTURES (1B)**


SHEET NO.
22

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

QTY.	STRUCT. No.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN					CURB INLETS						MANHOLES		
						ROUND					P-5	J-5	J-5	P-6	J-6	P-7	P-8	J-8	J-8
						15"	18"	24"	30"	36"	<10'	<10'	>10'	<10'	<10'	<10'	<10'	<10'	PARTIAL
P	S-114	23+00.00	LT.	Inlet, Pipe	1					118					1				
F																			
P	S-115	23+00.00	RT.	Inlet, Pipe	1			85					1						
F																			
P	S-117	23+80.00	RT.	Inlet, Pipe	1		77				1								
F																			
P	S-118	24+71.29	RT.	Inlet, Pipe	1		87.81				1								
F																			
P	S-119	26+33.50	RT.	Inlet, Pipe	1		73				1								
F																			
P	S-120	27+00.00	LT.	Inlet, Pipe	1					397		1							
F																			
P	S-121	27+10.00	RT.	Inlet, Pipe	1		106.2				1								
F																			
P	S-122	28+19.74	LT.	Inlet, Pipe	1					116				1					
F																			
P	S-123	28+19.74	RT.	Inlet, Pipe	1		92						1						
F																			
P	S-124	30+79.00	LT.	Inlet, Pipe	1		298				1								
F																			
P	S-125	30+79.00	RT.	Inlet, Pipe	1		92				1								
F																			
P	S-126	33+80.00	LT.	Inlet, Pipe	1		216				1								
F																			
P	S-127	33+80.00	RT.	Inlet, Pipe	1		92				1								
F																			
P	S-128	35+97.50	LT.	Inlet, Pipe	1		97.48				1								
F																			
P	S-129	36+00.00	RT.	Inlet, Pipe	1		96.42				1								
F																			
P	S-130	37+00.00	LT.	Inlet, Pipe	1		96.52						1						
F																			
P	S-131	37+00.00	RT.	Inlet, Pipe	1		79						1						
F																			
P	S-132	38+00.00	LT.	Inlet, Pipe	1			396			1								
F																			
P	S-135	42+00.00	RT.	Inlet, Pipe	1		96						1						
F																			
P	S-136	42+00.00	LT.	Inlet, Pipe	1				97		1								
F																			
P	S-137	43+00.00	RT.	Inlet, Pipe	1					52		1							
F																			
P	S-137OUT	43+00.00	RT.	MES	1														
F																			
P	S-138	42+95.00	LT.	Inlet, Pipe	1					73		1							
F																			
P	S-139	46+00.00	LT.	Inlet, Pipe	1					297		1							
F																			
P	S-140	46+00.00	RT.	Inlet, Pipe	1		73				1								
F																			
P	S-141	47+50.00	RT.	Inlet, Pipe	1					146				1					
F																			
SHEET TOTALS				PLAN QUANTITY		1672	481	97	1199	13	4		5	3					
				FINAL QUANTITY															

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

**SUMMARY OF
DRAINAGE STRUCTURES (2A)**


SHEET NO.
23

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

QTY.	STRUCT. No.	STATION	SIDE	DESCRIPTION	BARRELS	BARRIER WALL INLET	DITCH BOTTOM INLETS				SIDE DRAIN MES	CROSS DRAIN MES	CONCRETE ENDWALLS	SODDING	REMARKS
							J-C	C MOD	D	D MOD					
							<10'	<10'	<10'	<10'	ROUND	ROUND	SINGLE		
P	S-114	23+00.00	LT.	Inlet, Pipe	1								SY		
F															
P	S-115	23+00.00	RT.	Inlet, Pipe	1										
F															
P	S-117	23+80.00	RT.	Inlet, Pipe	1										
F															
P	S-118	24+71.29	RT.	Inlet, Pipe	1										
F															
P	S-119	26+33.50	RT.	Inlet, Pipe	1										
F															
P	S-120	27+00.00	LT.	Inlet, Pipe	1										
F															
P	S-121	27+10.00	RT.	Inlet, Pipe	1										
F															
P	S-122	28+19.74	LT.	Inlet, Pipe	1										
F															
P	S-123	28+19.74	RT.	Inlet, Pipe	1										
F															
P	S-124	30+79.00	LT.	Inlet, Pipe	1										
F															
P	S-125	30+79.00	RT.	Inlet, Pipe	1										
F															
P	S-126	33+80.00	LT.	Inlet, Pipe	1										
F															
P	S-127	33+80.00	RT.	Inlet, Pipe	1										
F															
P	S-128	35+97.50	LT.	Inlet, Pipe	1										
F															
P	S-129	36+00.00	RT.	Inlet, Pipe	1										
F															
P	S-130	37+00.00	LT.	Inlet, Pipe	1										
F															
P	S-131	37+00.00	RT.	Inlet, Pipe	1										
F															
P	S-132	38+00.00	LT.	Inlet, Pipe	1										
F															
P	S-135	42+00.00	RT.	Inlet, Pipe	1										
F															
P	S-136	42+00.00	LT.	Inlet, Pipe	1										
F															
P	S-137	43+00.00	RT.	Inlet, Pipe	1										
F															
P	S-137OUT	43+00.00	RT.	MES	1					1		28		1:4	
F															
P	S-138	42+95.00	LT.	Inlet, Pipe	1										
F															
P	S-139	46+00.00	LT.	Inlet, Pipe	1										
F															
P	S-140	46+00.00	RT.	Inlet, Pipe	1										
F															
P	S-141	47+50.00	RT.	Inlet, Pipe	1										
F															
SHEET TOTALS				PLAN QUANTITY						1		28			
				FINAL QUANTITY											

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

**SUMMARY OF
DRAINAGE STRUCTURES (2B)**


SHEET NO.
24

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

QTY.	STRUCT. No.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN					CURB INLETS						MANHOLES		
						ROUND					P-5	J-5	J-5	P-6	J-6	P-7	P-8	J-8	J-8
						15"	18"	24"	30"	36"	<10'	<10'	>10'	<10'	<10'	<10'	<10'	<10'	PARTIAL
P	S-142	47+50.00	LT.	Inlet, Pipe	1		73						1						
F																			
P	S-143	48+60.00	RT.	Pipe, Inlet, Pipe	1	4				107		1							
F																			
P	S-143A	49+86.00	RT.	Pipe, Inlet, Pipe	1	6				123		1							
F																			
P	S-144	48+60.00	LT.	Inlet, Pipe	1		73					1							
F																			
P	S-145	51+38.00	RT.	Inlet, Pipe	1					149		1							
F																			
P	S-145A	51+38.00	RT.	Inlet, Pipe	1	23													
F																			
P	S-146	51+38.00	LT.	Inlet, Pipe	1		73					1							
F																			
P	S-147	53+98.00	RT.	Inlet, Pipe	1					257		1							
F																			
P	S-148	53+98.00	LT.	Inlet, Pipe	1		73					1							
F																			
P	S-150	58+00.00	LT.	Inlet, Pipe	1		73					1							
F																			
P	S-151	58+00.00	RT.	Inlet, Pipe	1					398		1							
F																			
P	S-152	61+85.00	LT.	Inlet, Pipe	1		73					1							
F																			
P	S-153	61+85.00	RT.	Inlet, Pipe	1					382		1							
F																			
P	S-154	65+58.74	LT.	Inlet, Pipe	1		72					1							
F																			
P	S-155	65+58.74	RT.	Inlet, Pipe	1					370									
F																			
P	S-156	67+50.00	LT.	Inlet, Pipe	1		73					1							
F																			
P	S-157	67+50.00	RT.	Inlet, Pipe	1					191		1							
F																			
P	S-158	68+50.00	LT.	Inlet, Pipe	1		73						1						
F																			
P	S-159	68+50.00	RT.	Inlet, Pipe	1		96						1						
F																			
P	S-160	70+30.00	LT.	Inlet, Pipe	1		73					1							
F																			
P	S-161	70+30.00	RT.	Inlet, Pipe	1		176					1							
F																			
P	S-170	30+65.00	LT.	EW, Pipe	1					74									
F																			
P	S-171	30+00.00	LT.	Manhole	1													1	
F																			
P	S-172	28+95.31	LT.	Manhole	1														1
F																			
P	S-173	28+74.39	LT.	Manhole, Pipe	1					53								1	
F																			
P	CP-1	514+75.50	LT.	Pipe, Inlet, Pipe	1		8							1					
F																			
SHEET TOTALS					PLAN QUANTITY	33	1009	191	752	1161	10	6		3		1		2	1
					FINAL QUANTITY														

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

**SUMMARY OF
DRAINAGE STRUCTURES (3A)**


SHEET NO.
25

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

QTY.	STRUCT. No.	STATION	SIDE	DESCRIPTION	BARRELS	BARRIER WALL INLET	DITCH BOTTOM INLETS				SIDE DRAIN MES	CROSS DRAIN MES	CONCRETE ENDWALLS	SODDING	REMARKS
							J-C	C MOD	D	D MOD					
							<10'	<10'	<10'	<10'	ROUND	ROUND	SINGLE		
P	S-142	47+50.00	LT.	Inlet, Pipe	1										
F															
P	S-143	48+60.00	RT.	Pipe, Inlet, Pipe	1										
F															Concrete Jacket
P	S-143A	49+86.00	RT.	Pipe, Inlet, Pipe	1										
F															Concrete Jacket
P	S-144	48+60.00	LT.	Inlet, Pipe	1										
F															
P	S-145	51+38.00	RT.	Inlet, Pipe	1										
F															
P	S-145A	51+38.00	RT.	Inlet, Pipe	1			1							
F															
P	S-146	51+38.00	LT.	Inlet, Pipe	1										
F															
P	S-147	53+98.00	RT.	Inlet, Pipe	1										
F															
P	S-148	53+98.00	LT.	Inlet, Pipe	1										
F															
P	S-150	58+00.00	LT.	Inlet, Pipe	1										
F															
P	S-151	58+00.00	RT.	Inlet, Pipe	1										
F															
P	S-152	61+85.00	LT.	Inlet, Pipe	1										
F															
P	S-153	61+85.00	RT.	Inlet, Pipe	1										
F															
P	S-154	65+58.74	LT.	Inlet, Pipe	1										
F															
P	S-155	65+58.74	RT.	Inlet, Pipe	1	1									
F															
P	S-156	67+50.00	LT.	Inlet, Pipe	1										
F															
P	S-157	67+50.00	RT.	Inlet, Pipe	1										
F															
P	S-158	68+50.00	LT.	Inlet, Pipe	1										
F															
P	S-159	68+50.00	RT.	Inlet, Pipe	1										
F															
P	S-160	70+30.00	LT.	Inlet, Pipe	1										
F															
P	S-161	70+30.00	RT.	Inlet, Pipe	1										
F															
P	S-170	30+65.00	LT.	EW, Pipe	1						1				
F															
P	S-171	30+00.00	LT.	Manhole	1										
F															
P	S-172	28+95.31	LT.	Manhole	1										TOP ONLY
F															
P	S-173	28+74.39	LT.	Manhole, Pipe	1										
F															
P	CP-1	514+75.50	LT.	Pipe, Inlet, Pipe	1										
F															
SHEET TOTALS					PLAN QUANTITY	1		1				1			
					FINAL QUANTITY										

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

**SUMMARY OF
DRAINAGE STRUCTURES (3B)**


SHEET NO.
26

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

QTY.	STRUCT. No.	STATION	SIDE	DESCRIPTION	BARRELS	BARRIER WALL INLET	DITCH BOTTOM INLETS				SIDE DRAIN MES	CROSS DRAIN MES	CONCRETE ENDWALLS	SODDING	REMARKS
							J-C	C MOD	D	D MOD					
							ROUND	ROUND	SINGLE						
						<10'	<10'	<10'	<10'	30"	36"	36"	SY		
P	CP-2	516+41.00	LT.	Pipe, Inlet, Pipe	1										
F															
P	CP-3	520+84.50	RT.	Pipe, Inlet, Pipe	1										
F															
P	CP-4	526+46.00	LT.	Pipe, Inlet, Pipe	1										
F															
SHEET TOTALS				PLAN QUANTITY											
GRAND TOTALS				FINAL QUANTITY	1	1	1	1	2	3	1	41			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

**SUMMARY OF
DRAINAGE STRUCTURES (4B)**

SHEET NO.
28

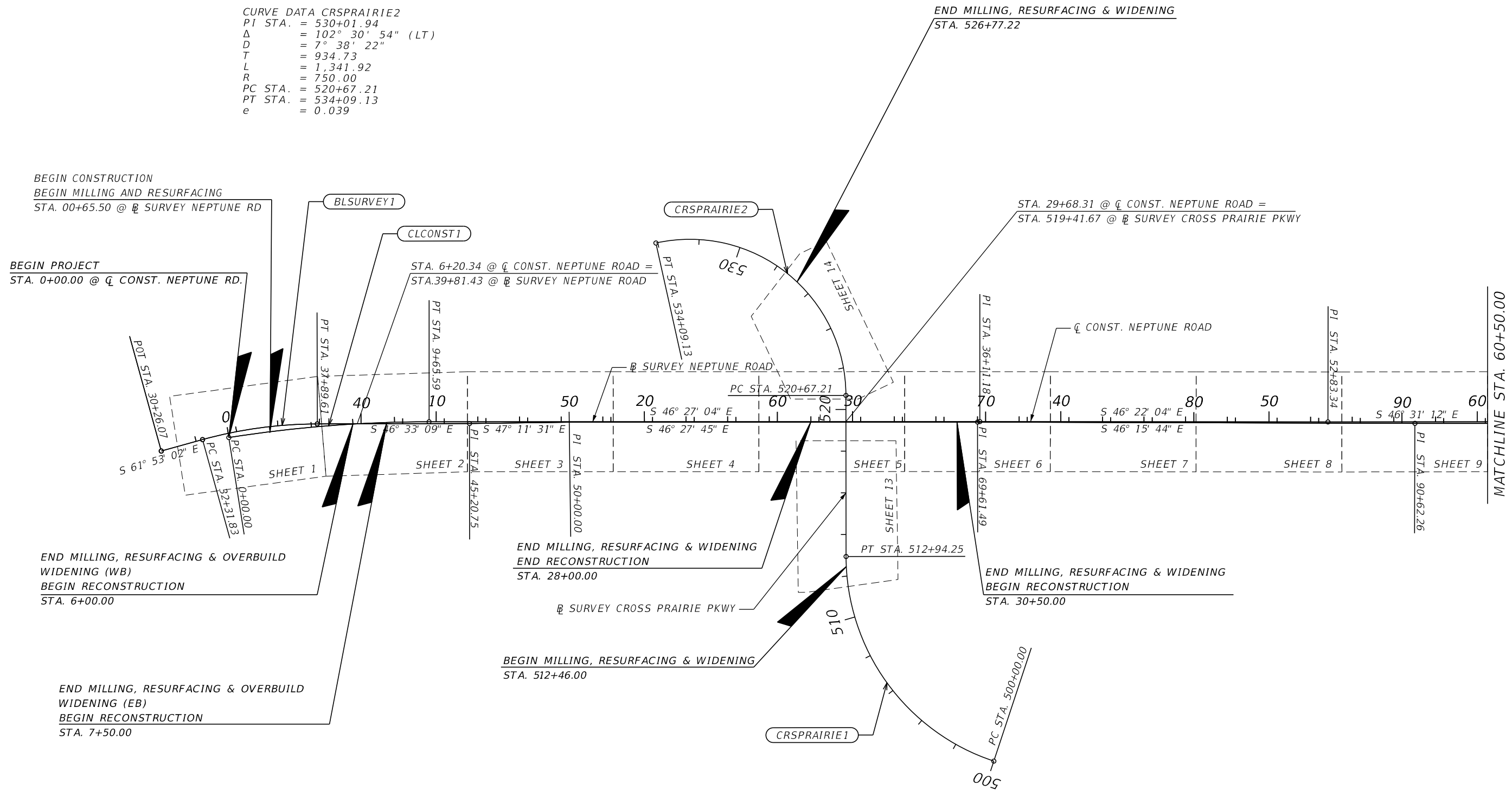
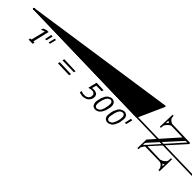
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

CURVE DATA BLSURVEY1
 PI STA. = 35+12.40
 Δ = 15° 19' 53" (RT)
 D = 2° 44' 55"
 T = 280.57
 L = 557.79
 R = 2,084.54
 PC STA. = 32+31.83
 PT STA. = 37+89.61
 e = NC

CURVE DATA CRSPRAIRIE1
 PI STA. = 507+47.11
 Δ = 71° 38' 50" (RT)
 D = 5° 32' 09"
 T = 747.11
 L = 1,294.25
 R = 1,035.00
 PC STA. = 500+00.00
 PT STA. = 512+94.25
 e = RC


CURVE DATA CLCONST1
 PI STA. = 4+83.79
 Δ = 8° 59' 45" (RT)
 D = 0° 55' 54"
 T = 483.79
 L = 965.59
 R = 6,150.00
 PC STA. = 0+00.00
 PT STA. = 9+65.59
 e = NC

CURVE DATA CRSPRAIRIE2
 PI STA. = 530+01.94
 Δ = 102° 30' 54" (LT)
 D = 7° 38' 22"
 T = 934.73
 L = 1,341.92
 R = 750.00
 PC STA. = 520+67.21
 PT STA. = 534+09.13
 e = 0.039



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

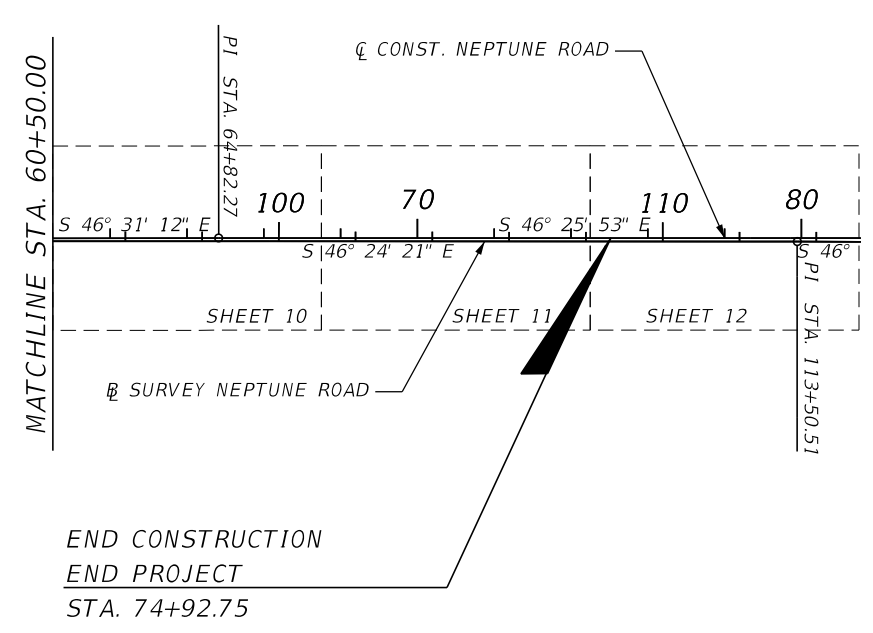
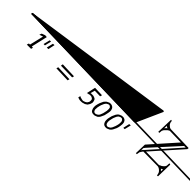



OSCEOLA COUNTY TRANSIT
 AND TRANSPORTATION
 1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE:(407) 742-0662 FAX:(407) 742-0600

PROJECT LAYOUT (1)

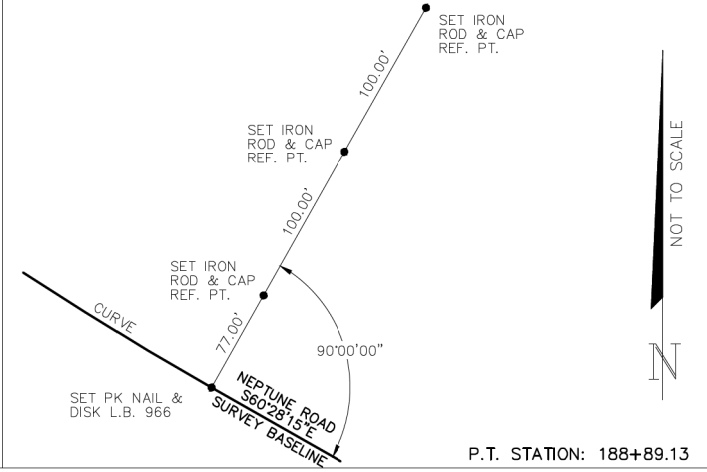
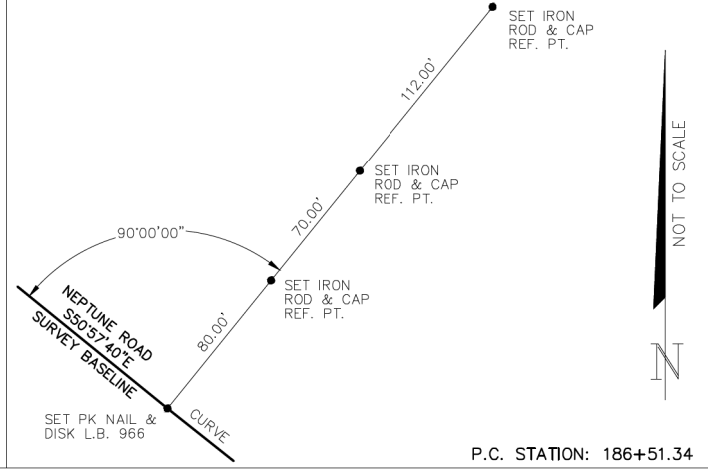
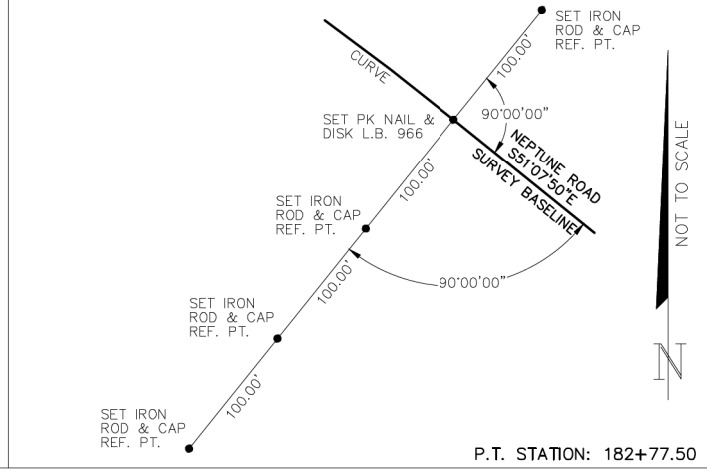
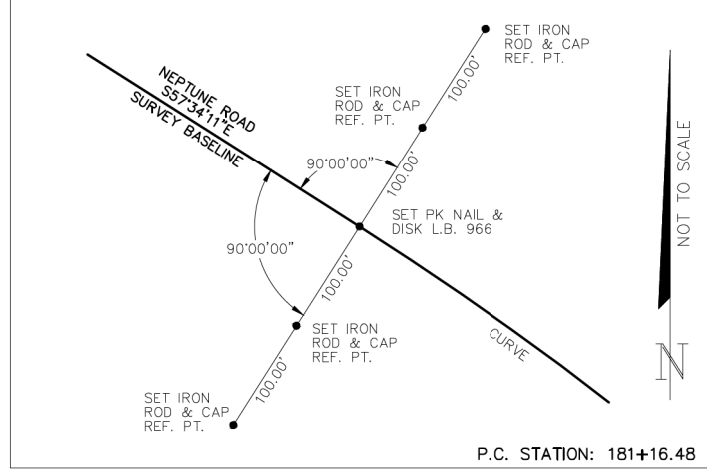
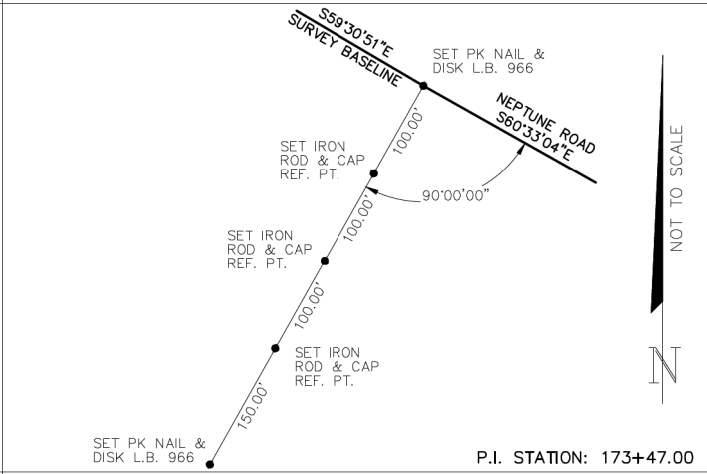
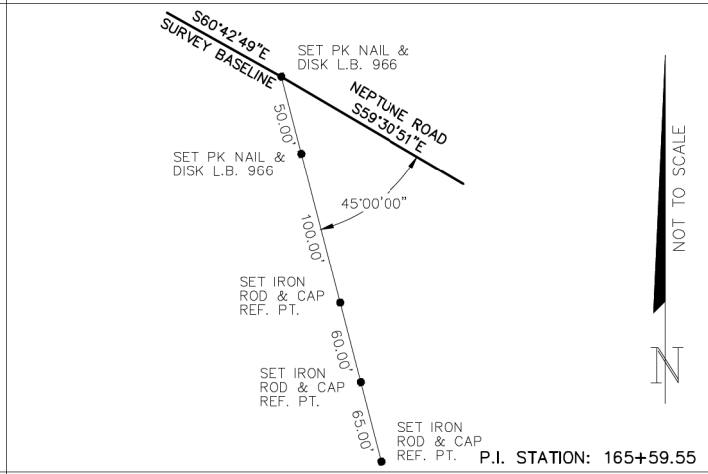
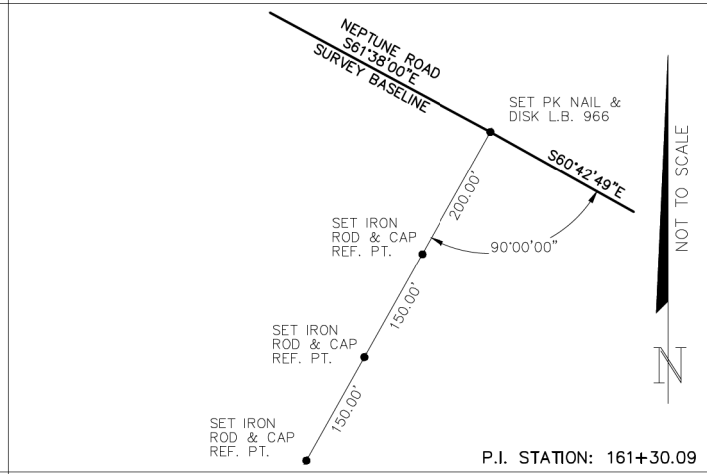
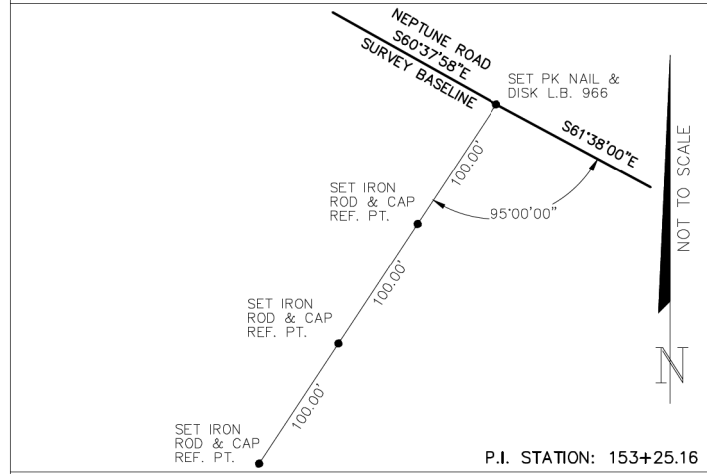
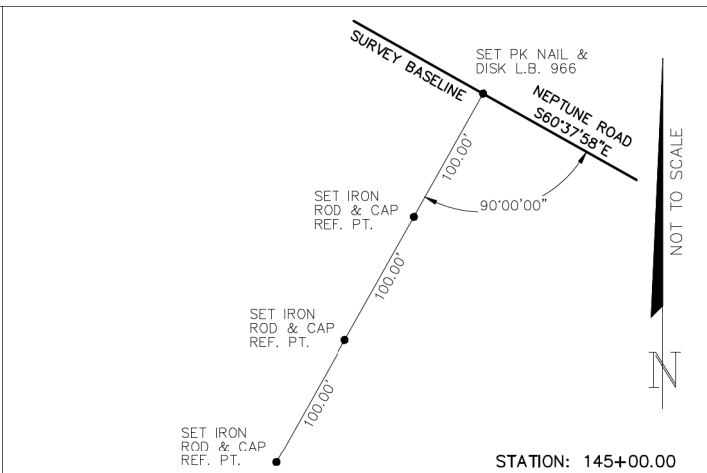
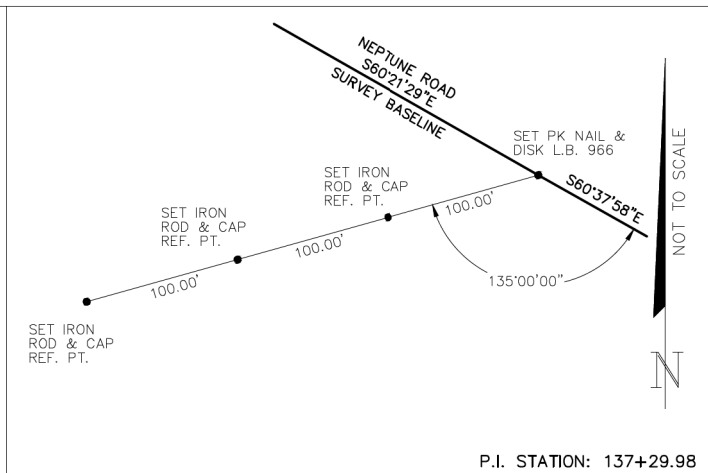
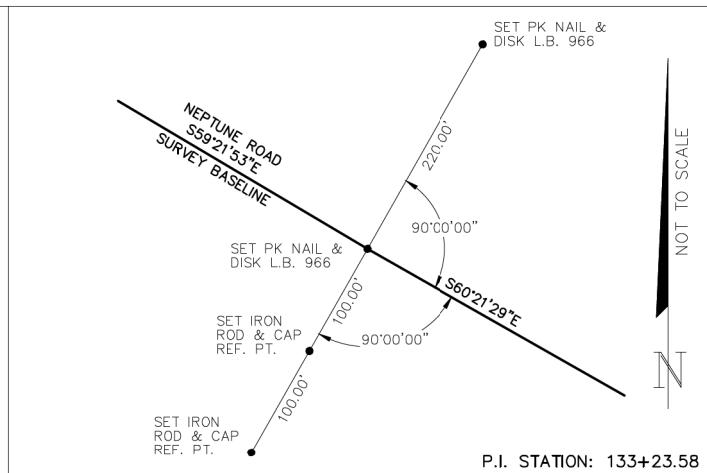
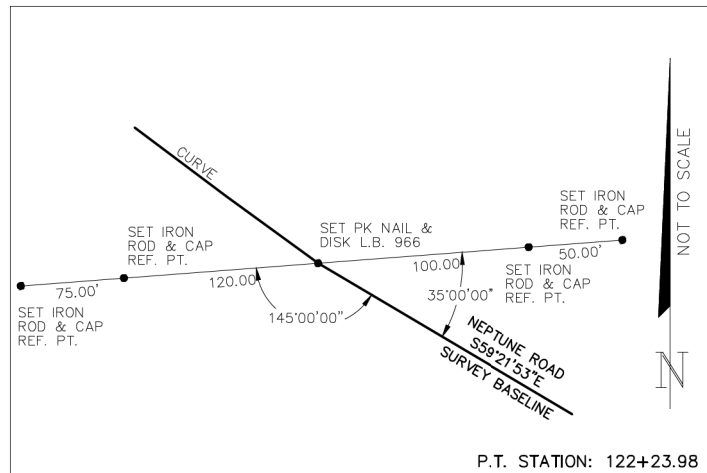
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29

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REVISIONS				DONGHANG ZHAO, P.E. P.E. LICENSE NUMBER 72502 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801	 OSCEOLA COUNTY TRANSIT AND TRANSPORTATION 1 COURTHOUSE SQUARE, SUITE 3100 KISSIMMEE, FLORIDA 34741-5488 PHONE:(407) 742-0662 FAX:(407) 742-0600	<i>PROJECT LAYOUT (2)</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				30

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ABBREVIATIONS

P.I.	POINT OF INTERSECTION	PT.	POINT
P.C.	POINT OF CURVATURE	REF.	REFERENCE
P.T.	POINT OF TANGENCY	L.B.	LICENSED SURVEY BUSINESS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
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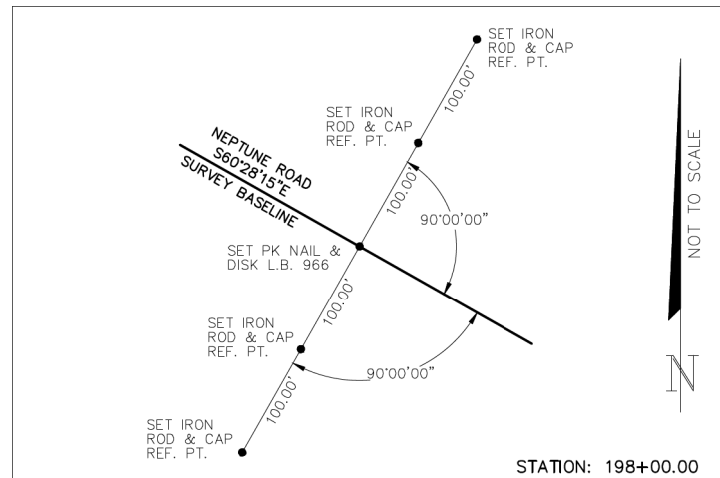
OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

PROJECT CONTROL (1)

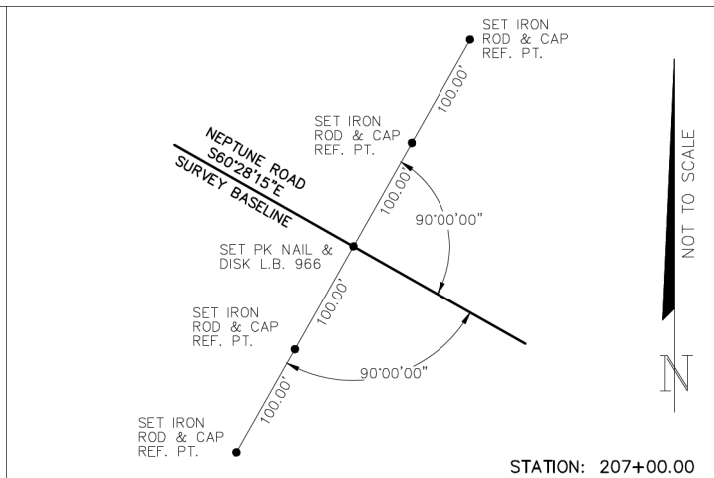
31

SHEET NO.
31

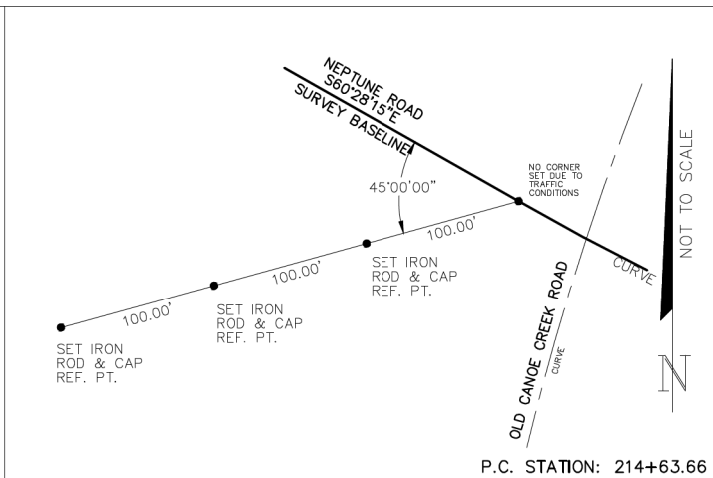
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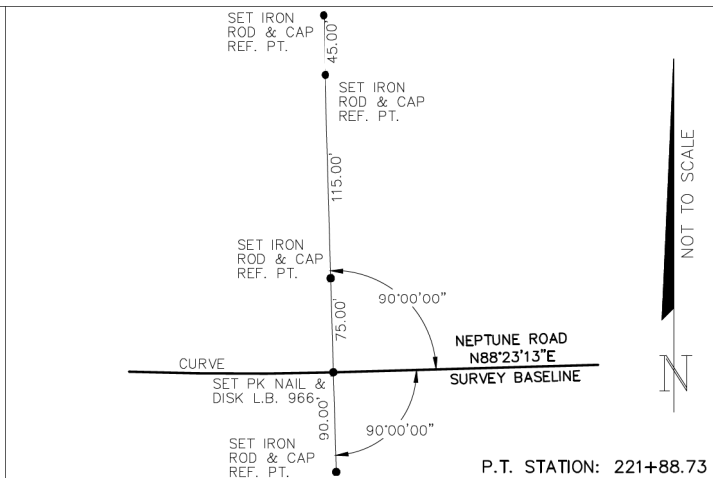
STATION: 198+00.00



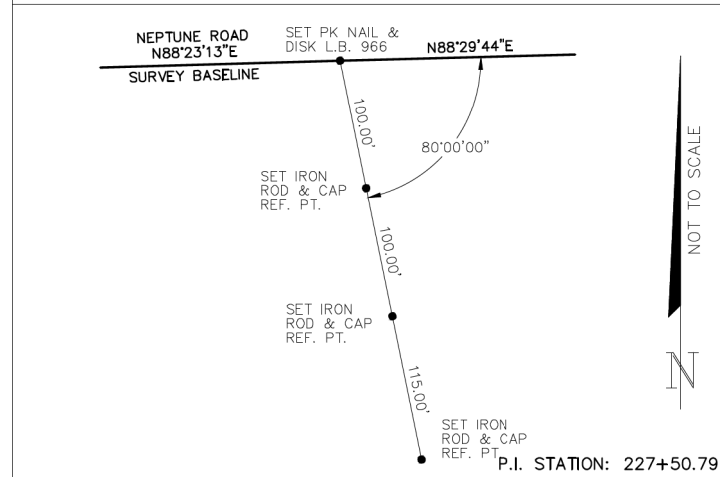
STATION: 207+00.00



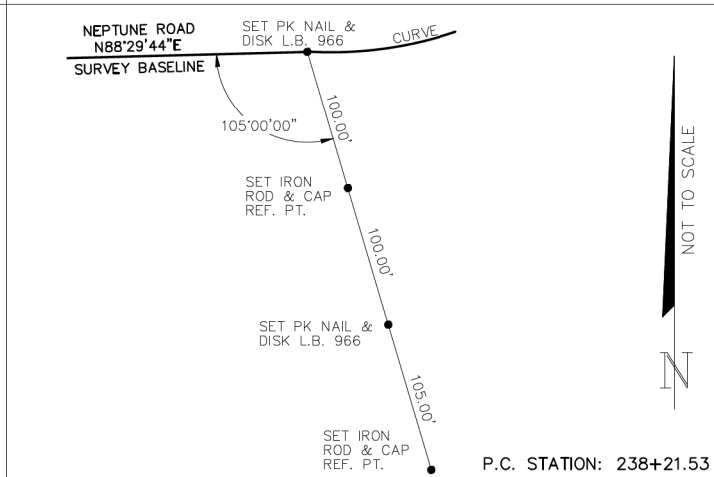
P.C. STATION: 214+63.66



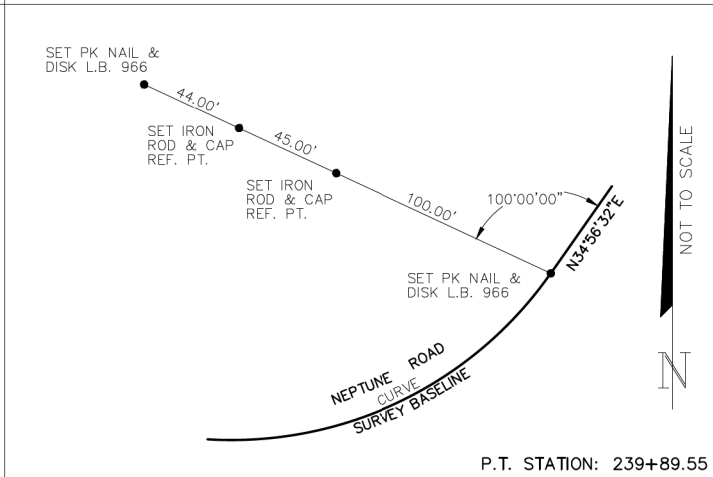
P.T. STATION: 221+88.73



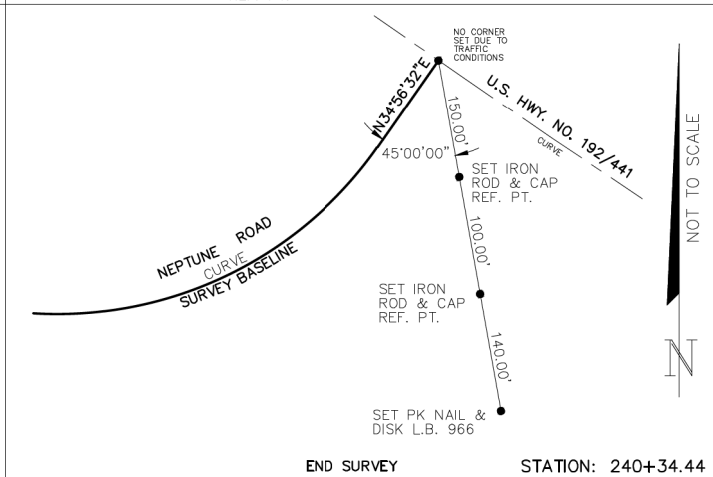
P.I. STATION: 227+50.79



P.C. STATION: 238+21.53



P.T. STATION: 239+89.55




END SURVEY STATION: 240+34.44

ABBREVIATIONS

P.I.	POINT OF INTERSECTION	PT.	POINT
P.C.	POINT OF CURVATURE	REF.	REFERENCE
P.T.	POINT OF TANGENCY	L.B.	LICENSED SURVEY BUSINESS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
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ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT
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1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

PROJECT CONTROL (2)

SHEET NO.
32

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VERTICAL CONTROL INFORMATION (EAST)

PROJECT BENCHMARK - BM-9A

Set box cut in Northeast corner of sidewalk at most Westerly building at Children's Home. 125'+/- South of Neptune Road and 200'+/- West of Twelve Oaks Circle.
Elevation = 65.068
N 1427726.040
E 546071.200

PROJECT BENCHMARK - BM-9

Set 4"x4" concrete monument stamped " BM 9", 120' South of Neptune Road and 180' West of Ames Haven Road.
Elevation = 65.673
N 1427554.600
E 546397.250

PROJECT BENCHMARK - BM-10

Set box cut in the Northeast corner of drainage inlet 210' South of Neptune Road and 25' East of Breezewood Street.
Elevation 67.593.
N 1427067.340
E 547047.80

SOURCE BENCHMARK

Brass disk G512, in concrete monument 50' North of Neptune Road at centerline projection of Breezewood Blvd.
Elevation = 68.702'.
NGS Pub. Elevation = 68.775'.
N 1427314.990
E 547165.840

PROJECT BENCHMARK - BM-10A

Set pk nail in asphalt sidewalk 50'+/- North of Neptune Road and 860'+/- East of Breezewood Street.
Elevation 69.418.
N 1426889.720
E 547902.400

PROJECT BENCHMARK - BM-11

Brass disk stamped "419 - 70.50" 35' West and 50' South of flagpole in front of Neptune Middle School.
Elevation = 70.552
Osceola County Pub. Elevation 70.50
N 1426761.380
E 548481.390

PROJECT BENCHMARK - BM-11A

Set pk nail in asphalt sidewalk 65'+/- North of Neptune Road and 685'+/- West of Florida Turnpike.
Elevation 68.798.
N 1426321.350
E 548937.980

PROJECT BENCHMARK - BM-12

Set box cut in the West end of crosswalk over Florida Turnpike, 35' North of Neptune Road.
Elevation 88.215
N 1426009.120
E 549432.720

PROJECT BENCHMARK - BM-12A

Set pk nail in asphalt sidewalk 55'+/- North of Neptune Road and 800'+/- East of Florida Turnpike.
Elevation 64.224.
N 1425577.980
E 550239.440

PROJECT BENCHMARK - BM-13

Set box cut in concrete sidewalk at the West end of crosswalk over Canal 31, North of Neptune Road.
Elevation 64.796'
N 1425234.160
E 550788.570

PROJECT BENCHMARK - BM-14

Set 4"x4" concrete monument stamped "BM 14", 95' North of Neptune Road and 50' West of wood power pole #47182.
Elevation 64.559
N 1424734.150
E 551627.390

PROJECT BENCHMARK - BM-14A

Set pk nail in asphalt sidewalk 45'+/- North of Neptune Road and 640'+/- West of Commerce Center Drive.
Elevation 66.598.
N 1424385.680
E 552124.400

PROJECT BENCHMARK - BM-15

Set box cut in concrete sidewalk 80' North of Neptune Road and 35' East of Commerce Center Drive.
Elevation 72.188
N 1424092.510
E 552735.500

PROJECT BENCHMARK - BM-16

Set box cut in Southwest corner of drainage inlet 45' North of Neptune Road and 25' West of Westerly entrance to St. Cloud Public Safety Building.
Elevation 66.757
N 1423611.330
E 553483.440

PROJECT BENCHMARK - BM-17

Set box cut in East end of a curb inlet 30' North of Neptune Road and 500' East of Kissimmee Park Road.
Elevation 65.323
N 1423199.730
E 554434.450

PROJECT BENCHMARK - BM-18A

Set box cut in Southeast corner of drainage inlet 55' North of Neptune Road and 150' East of Hancock Circle.
Elevation 68.484
N 1423223.620
E 555373.070


PROJECT BENCHMARK - BM-18

Set 4"x4" concrete monument stamped "BM 18", 75' North of Neptune Road and 75' East of Monroe Avenue.
Elevation 71.017
N 1423274.250
E 555920.760

PROJECT BENCHMARK - BM-19

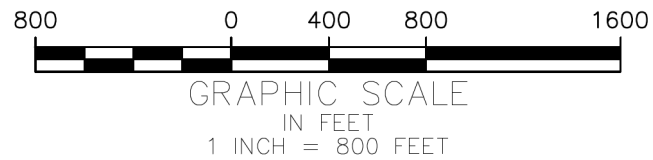
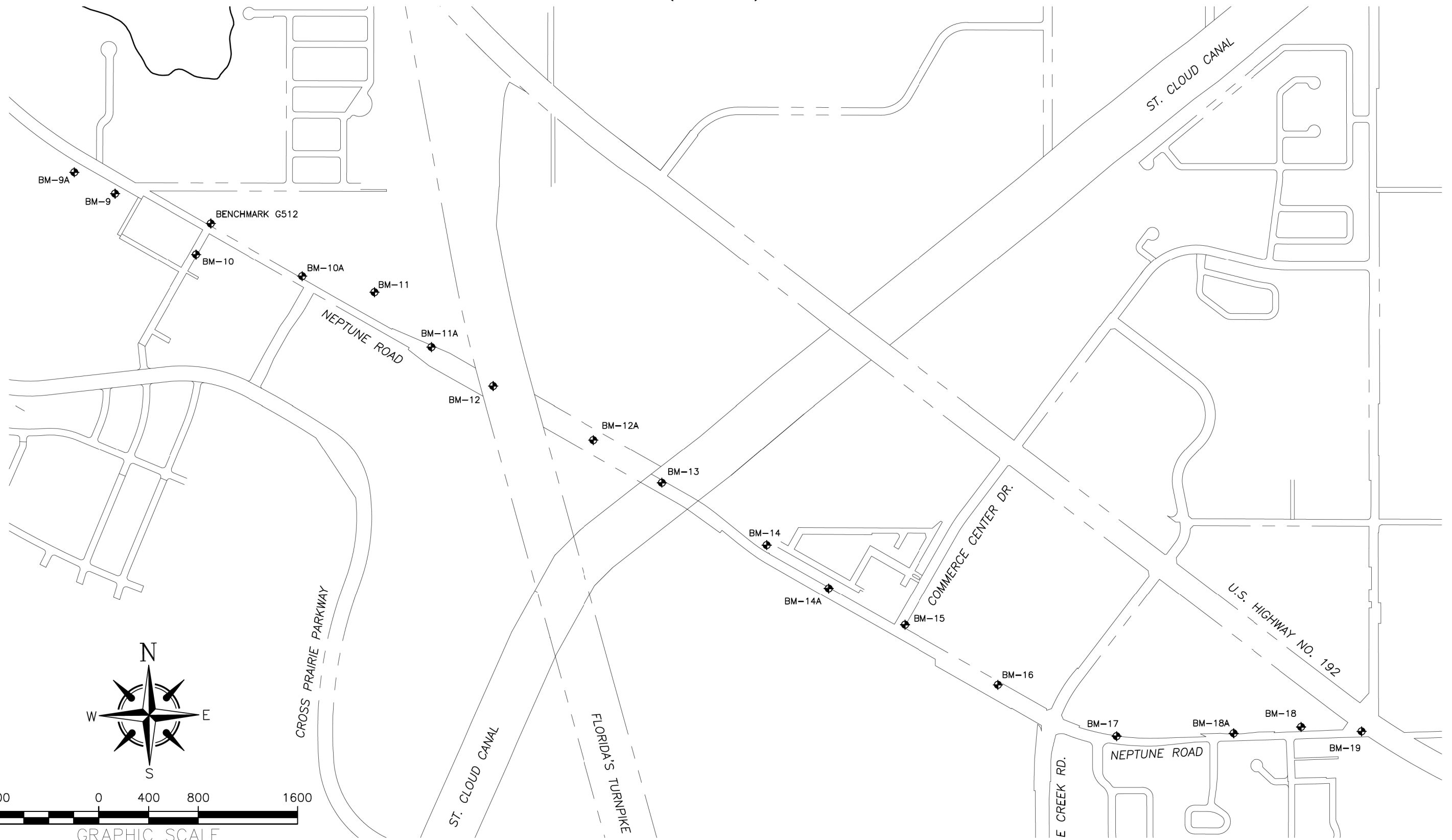
Set box cut in the Northeast corner of drainage inlet 46' East of Neptune Road and 66' South of U.S. Highway 441-192.
Elevation = 72.282'.
N 1423238.380
E 556405.190

ELEVATIONS AS SHOWN HEREIN ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD.'29).
REFERENCE BENCHMARK IS AN ALUMINUM DISK LABELED "P 8 A" SET IN A CONCRETE SLAB AT THE INTERSECTION OF PARTIN SETTLEMENT ROAD AND NEPTUNE ROAD, PUBLISHED ELEVATION = 66.421 (NGVD '29). N = 1,434,017.140, E = 539,611.670

REVISIONS				DONGHANG ZHAO, P.E. P.E. LICENSE NUMBER 72502 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801	 OSCEOLA COUNTY TRANSIT AND TRANSPORTATION 1 COURTHOUSE SQUARE, SUITE 3100 KISSIMMEE, FLORIDA 34741-5488 PHONE:(407) 742-0662 FAX:(407) 742-0600	PROJECT CONTROL (3)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				33

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VERTICAL CONTROL NETWORK (EAST)



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

**OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION**

1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE: (407) 742-0662 FAX: (407) 742-0600

PROJECT CONTROL (4)

SHEET
NO.

34


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GENERAL NOTES

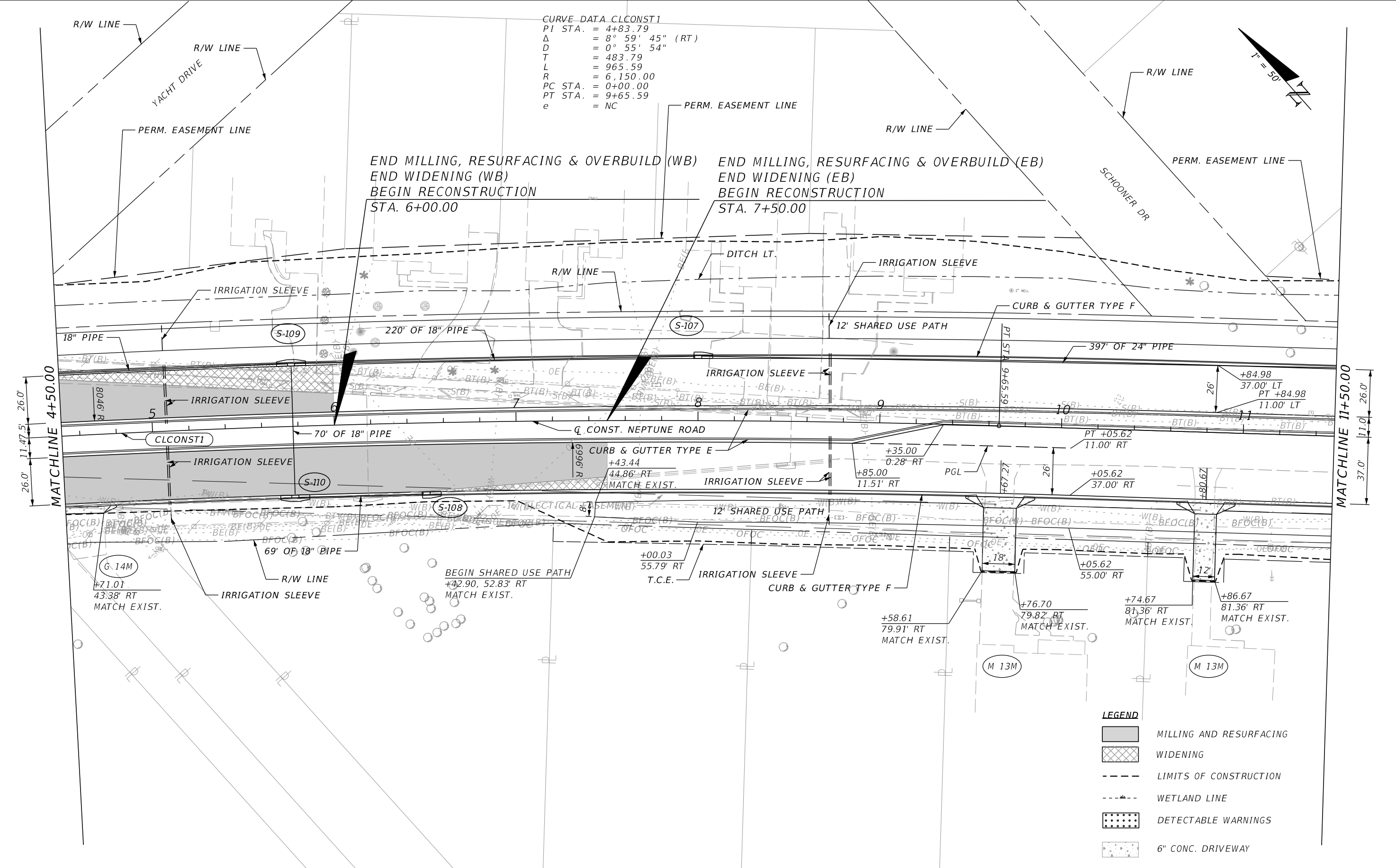
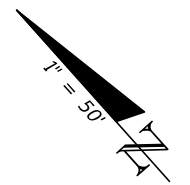
1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 1929).
2. ALL SURVEY INFORMATION WAS OBTAINED FROM A LICENSED FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AND UTILIZED AS SUPPORTING DATA IN THE PRODUCTION OF DESIGN PLANS AND FOR CONSTRUCTION ON SUBJECT PROJECT. THE PROFESSIONAL SURVEYOR AND MAPPER OF RECORD IS:
 TURNER WALLIS, P.S.M
 P.S.M NO# 3967
 JOHNSON'S SURVEYING INC.
 900 CROSS PRAIRIE PARKWAY, KISSIMMEE, FLORIDA 34744
 CERTIFICATION OF AUTHORIZATION: LB 966
3. EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL BE REMOVED UNLESS OTHERWISE NOTED.
4. EXISTING DRIVEWAYS WITHIN THE LIMITS OF THE PROJECT ARE TO BE REPLACED AT THE SAME LOCATION AND WIDTH, UNLESS OTHERWISE SHOWN IN THE PLANS.
5. ALL PIPES SHALL BE RCP.
6. SEE RIGHT OF WAY MAP FOR PROPOSED RIGHT OF WAY, PERMANENT DRAINAGE EASEMENT AND TEMPORARY CONSTRUCTION EASEMENT DETAIL LOCATIONS.

ABBREVIATIONS

ABBREVIATION	MEANING
PERM.	PERMANENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
D.U.E.	DRAINAGE UTILITY EASEMENT

REVISIONS				 OSCEOLA COUNTY TRANSIT AND TRANSPORTATION 1 COURTHOUSE SQUARE, SUITE 3100 KISSIMMEE, FLORIDA 34741-5488 PHONE:(407) 742-0662 FAX:(407) 742-0600	GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			35

CURVE DATA CLCONST1
 PI STA. = 4+83.79
 Δ = 8° 59' 45" (RT)
 D = 0° 55' 54"
 T = 483.79
 L = 965.59
 R = 6,150.00
 PC STA. = 0+00.00
 PT STA. = 9+65.59
 e = NC



END MILLING, RESURFACING & OVERBUILD (WB)
 END WIDENING (WB)
 BEGIN RECONSTRUCTION
 STA. 6+00.00

END MILLING, RESURFACING & OVERBUILD (EB)
 END WIDENING (EB)
 BEGIN RECONSTRUCTION
 STA. 7+50.00

LEGEND

	MILLING AND RESURFACING
	WIDENING
	LIMITS OF CONSTRUCTION
	WETLAND LINE
	DETECTABLE WARNINGS
	6" CONC. DRIVEWAY

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801



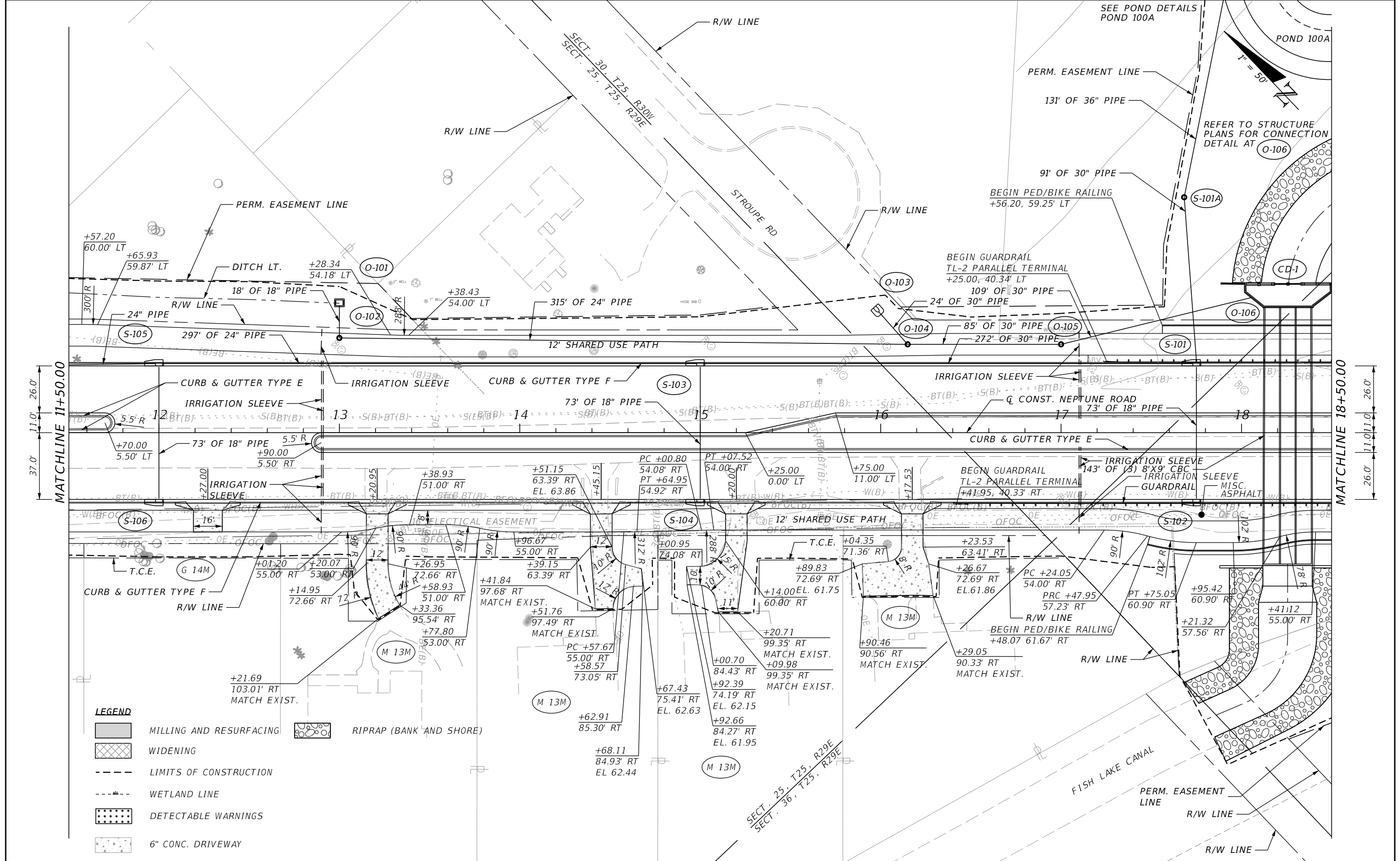
OSCEOLA COUNTY TRANSIT
 AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE: (407) 742-0662 FAX: (407) 742-0600

ROADWAY PLAN (2)

SHEET NO.
37

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LEGEND

	MILLING AND RESURFACING		RIPRAP (BANK AND SHORE)
	WIDENING		
	LIMITS OF CONSTRUCTION		
	WETLAND LINE		
	DETECTABLE WARNINGS		
	6" CONC. DRIVEWAY		

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
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618 E. SOUTH STREET - SUITE 700
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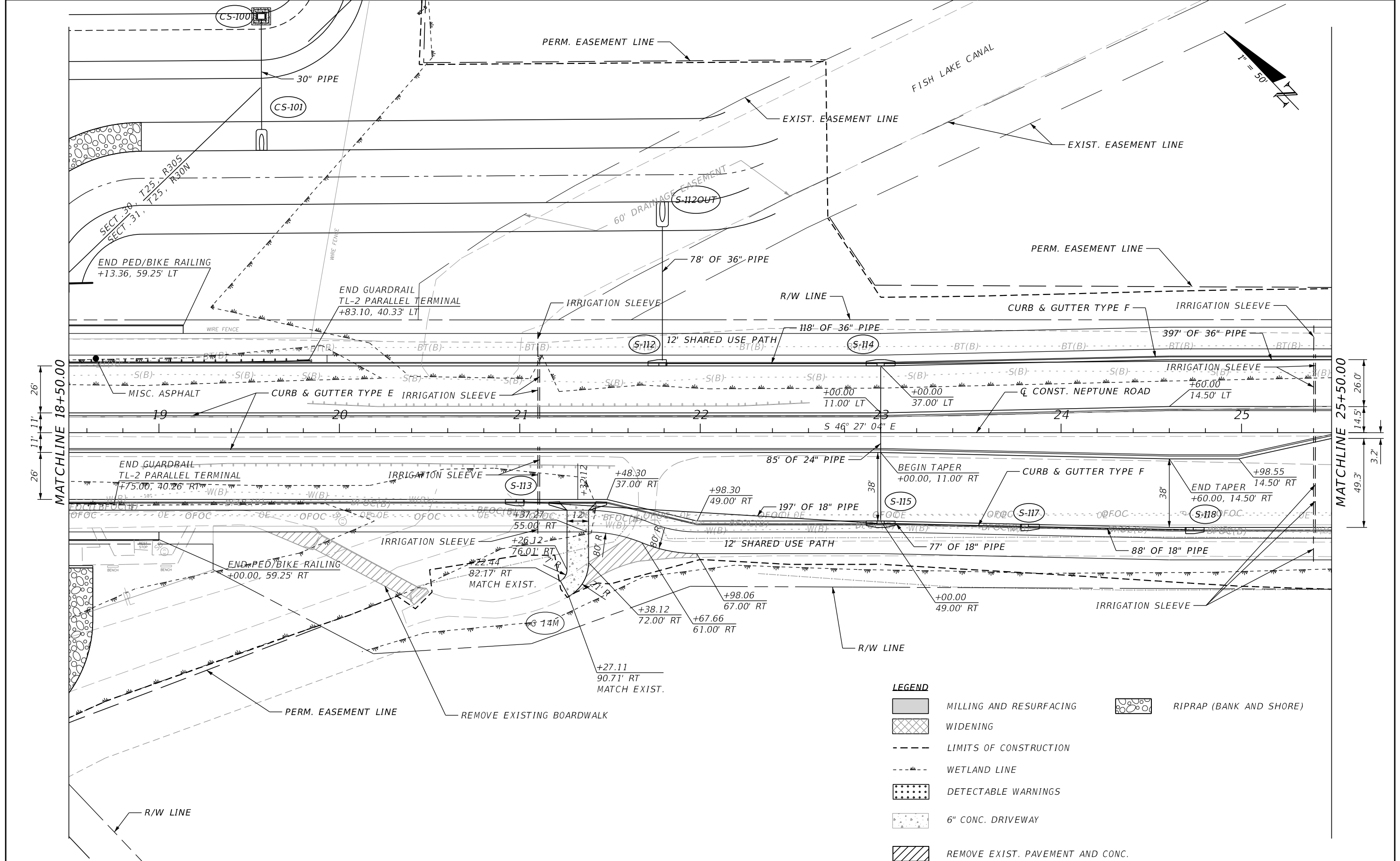


OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE: (407) 742-0662 FAX: (407) 742-0600

ROADWAY PLAN (3)


SHEET NO.
38

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

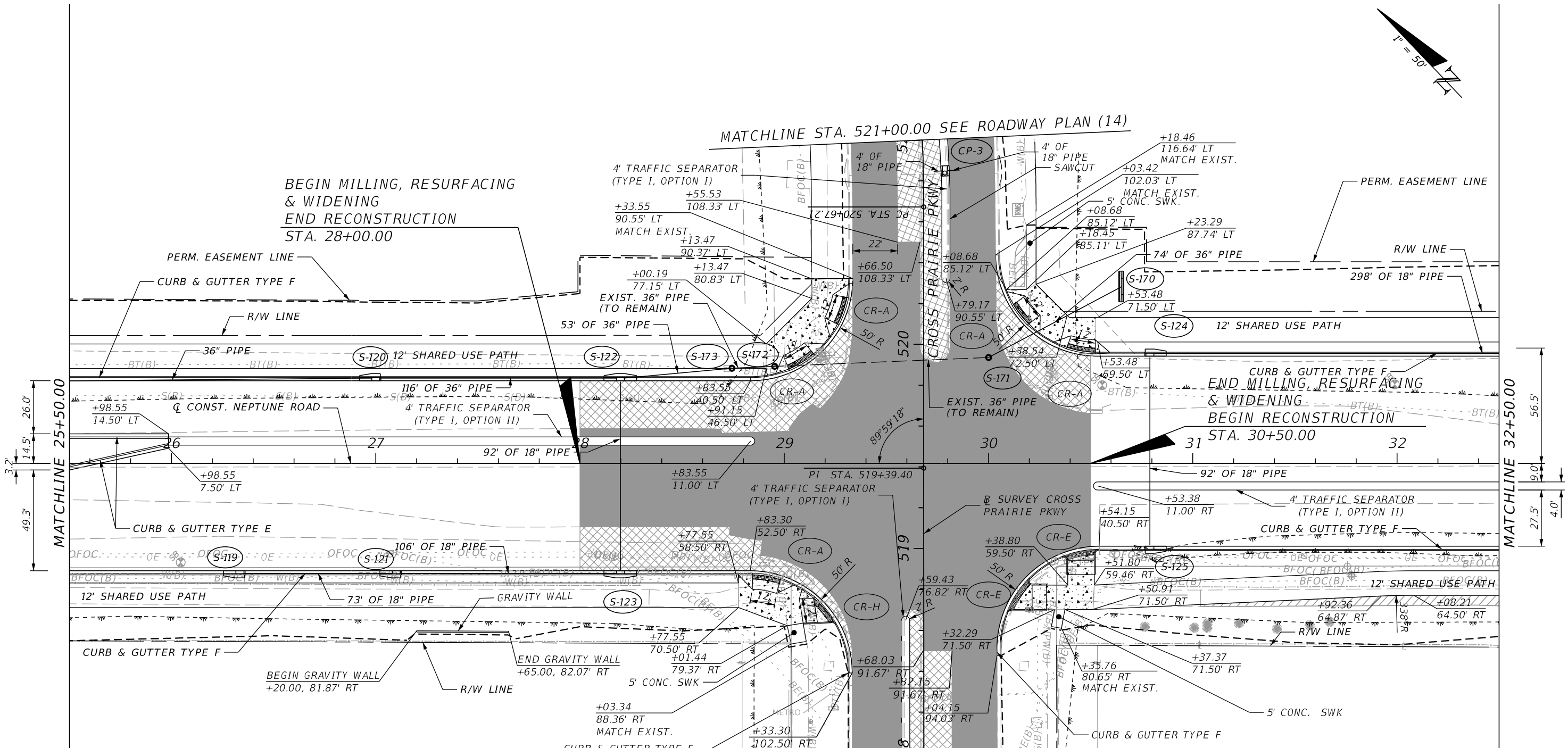
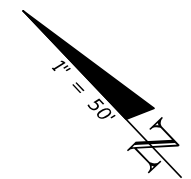


OSCEOLA COUNTY TRANSIT
 AND TRANSPORTATION
 1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE: (407) 742-0662 FAX: (407) 742-0600

ROADWAY PLAN (4)

SHEET NO.
39

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- LEGEND**
- MILLING AND RESURFACING
 - WIDENING
 - LIMITS OF CONSTRUCTION
 - WETLAND LINE
 - DETECTABLE WARNINGS
 - 6" CONC. DRIVEWAY
 - REMOVE EXIST. PAVEMENT AND CONC.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801



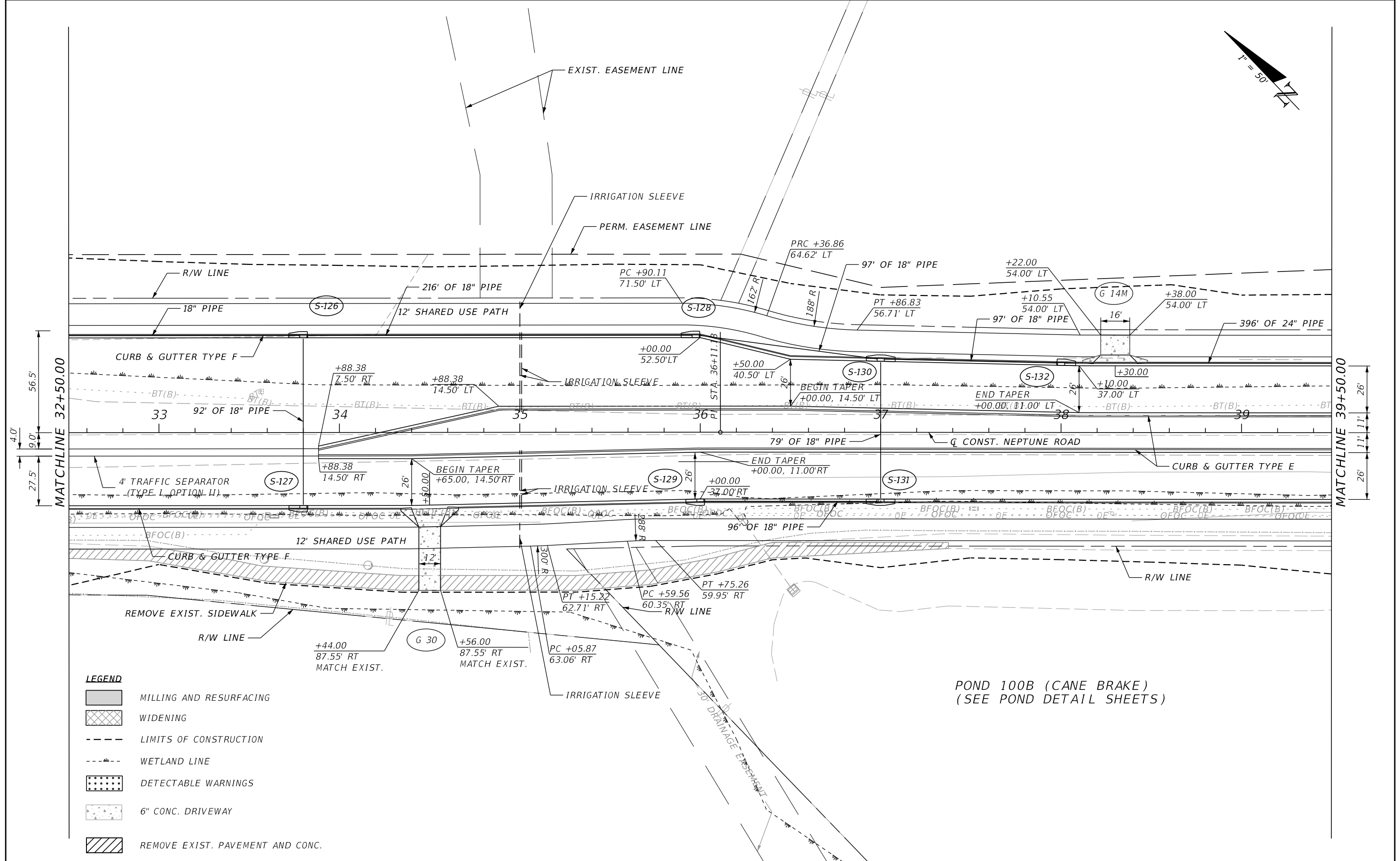
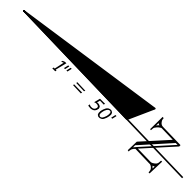
OSCEOLA COUNTY TRANSIT
 AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE: (407) 742-0662 FAX: (407) 742-0600

ROADWAY PLAN (5)

SHEET NO.
40

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LEGEND

- MILLING AND RESURFACING
- WIDENING
- LIMITS OF CONSTRUCTION
- WETLAND LINE
- DETECTABLE WARNINGS
- 6" CONC. DRIVEWAY
- REMOVE EXIST. PAVEMENT AND CONC.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

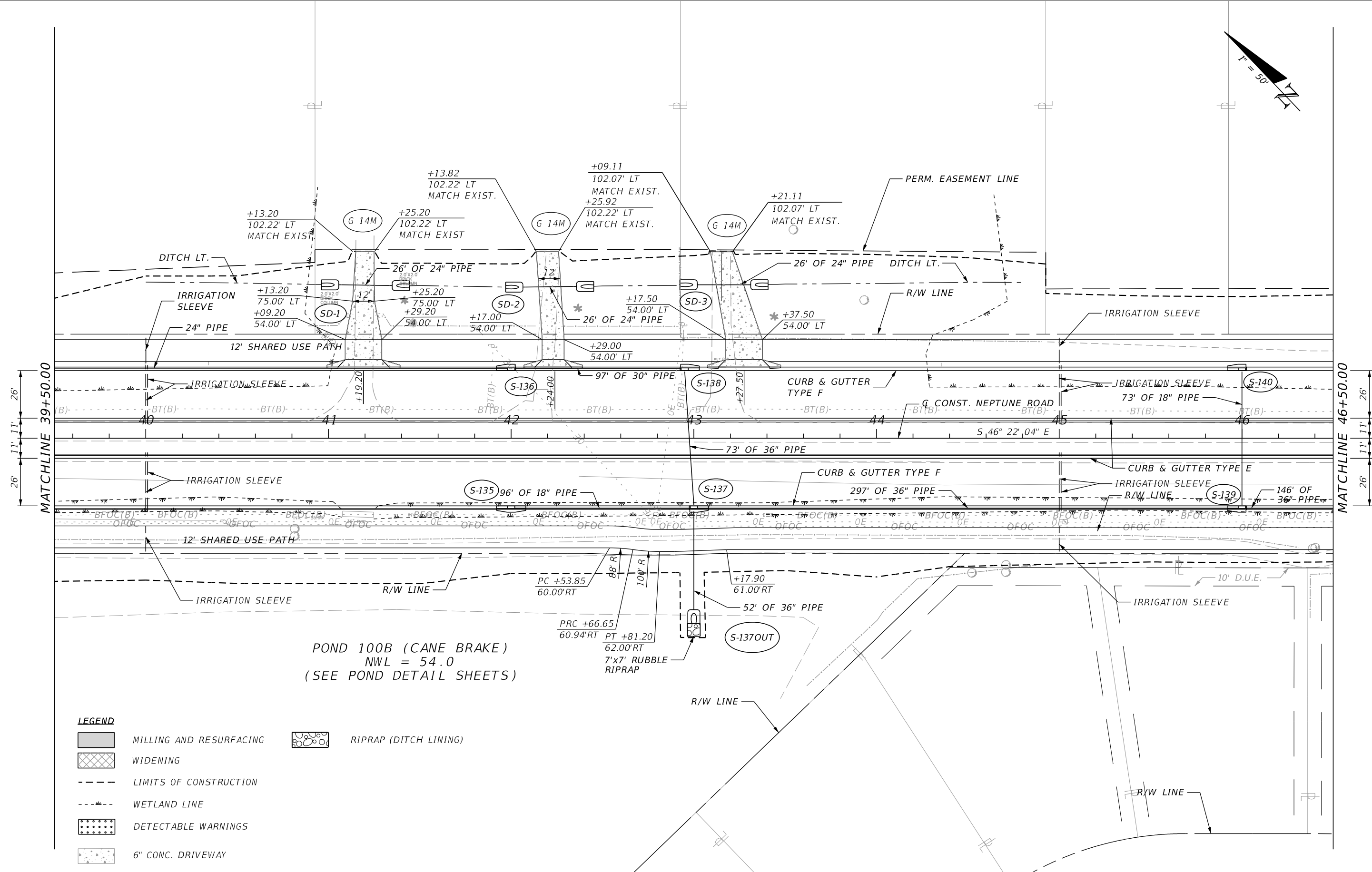
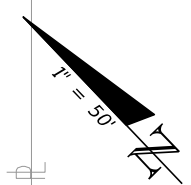
OSCEOLA COUNTY TRANSIT AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE: (407) 742-0662 FAX: (407) 742-0600

ROADWAY PLAN (6)

SHEET NO.
41

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MATCHLINE 39+50.00

MATCHLINE 46+50.00

LEGEND

- MILLING AND RESURFACING
- WIDENING
- LIMITS OF CONSTRUCTION
- WETLAND LINE
- DETECTABLE WARNINGS
- 6" CONC. DRIVEWAY
- RIPRAP (DITCH LINING)

POND 100B (CANE BRAKE)
 NWL = 54.0
 (SEE POND DETAIL SHEETS)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

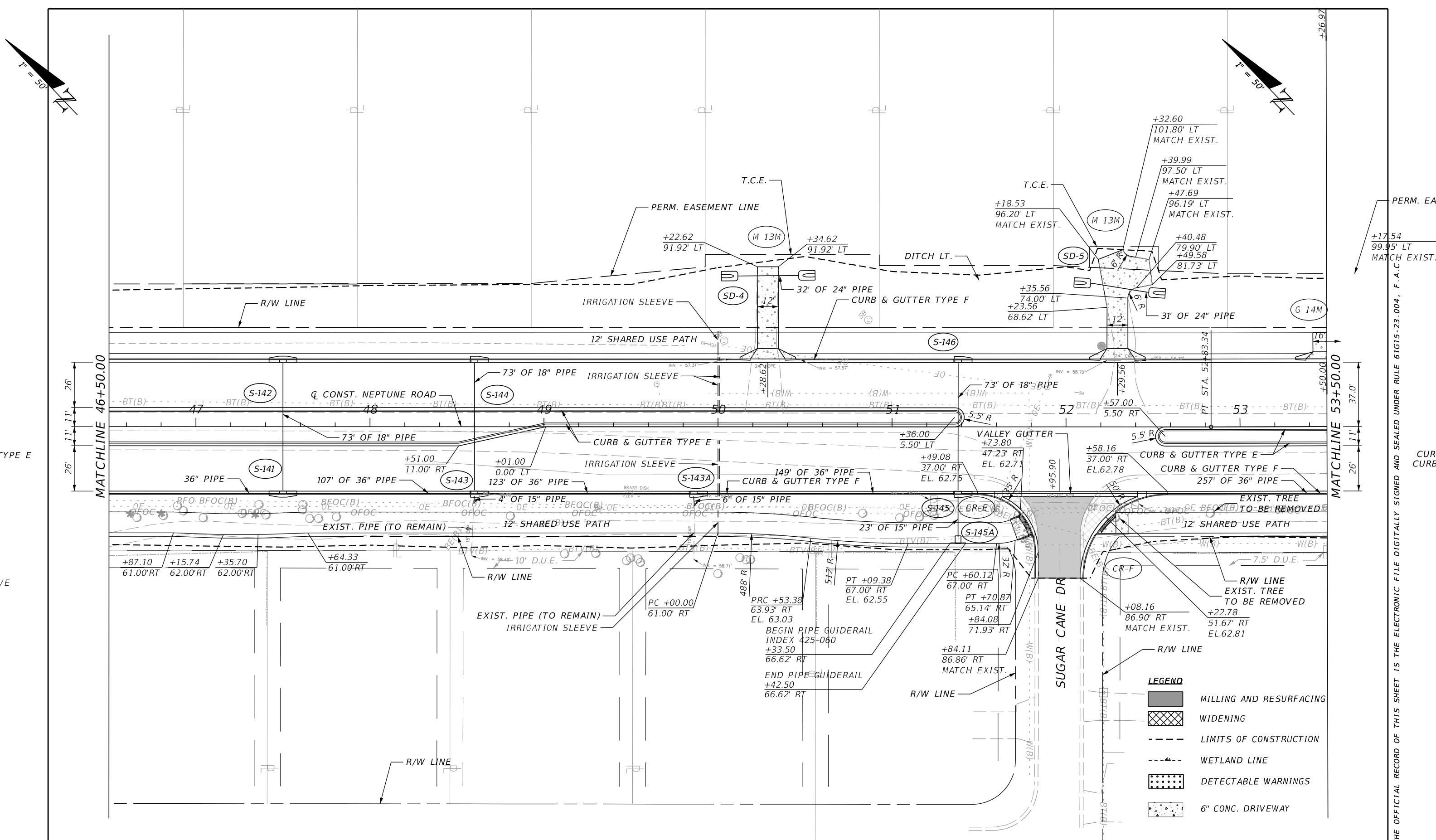
OSCEOLA COUNTY TRANSIT AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE: (407) 742-0662 FAX: (407) 742-0600

ROADWAY PLAN (7)

SHEET NO.
42

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



- LEGEND**
- MILLING AND RESURFACING
 - WIDENING
 - LIMITS OF CONSTRUCTION
 - WETLAND LINE
 - DETECTABLE WARNINGS
 - 6" CONC. DRIVEWAY

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

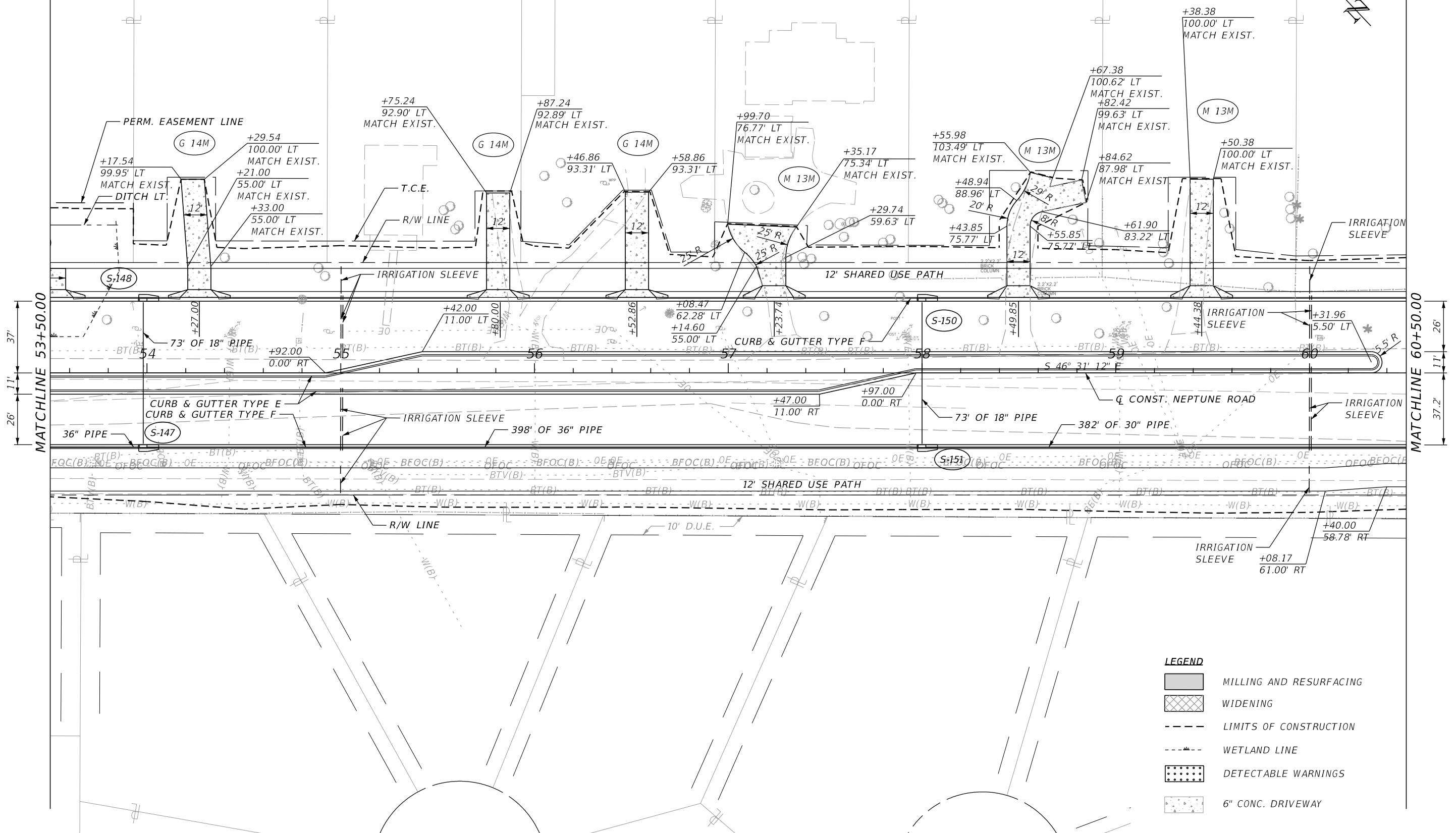
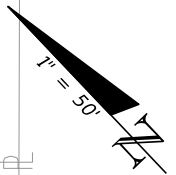
OSCEOLA COUNTY TRANSIT
 AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE: (407) 742-0662 FAX: (407) 742-0600

ROADWAY PLAN (8)

SHEET NO.
43

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



LEGEND

	MILLING AND RESURFACING
	WIDENING
	LIMITS OF CONSTRUCTION
	WETLAND LINE
	DETECTABLE WARNINGS
	6\"/>

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801



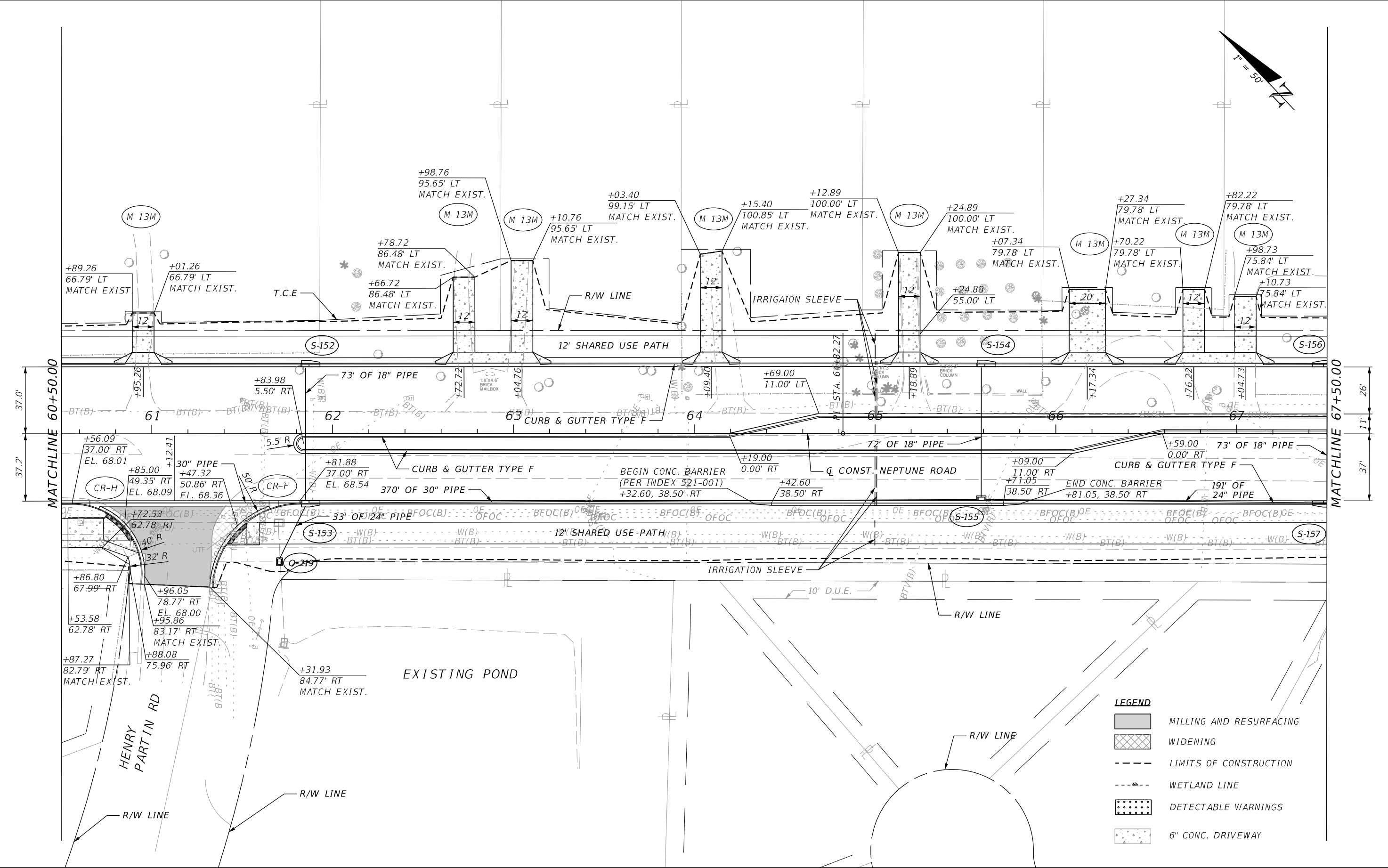
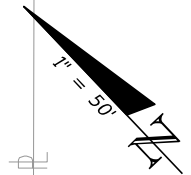
OSCEOLA COUNTY TRANSIT
 AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
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ROADWAY PLAN (9)

SHEET NO.
44

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LEGEND

	MILLING AND RESURFACING
	WIDENING
	LIMITS OF CONSTRUCTION
	WETLAND LINE
	DETECTABLE WARNINGS
	6" CONC. DRIVEWAY

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

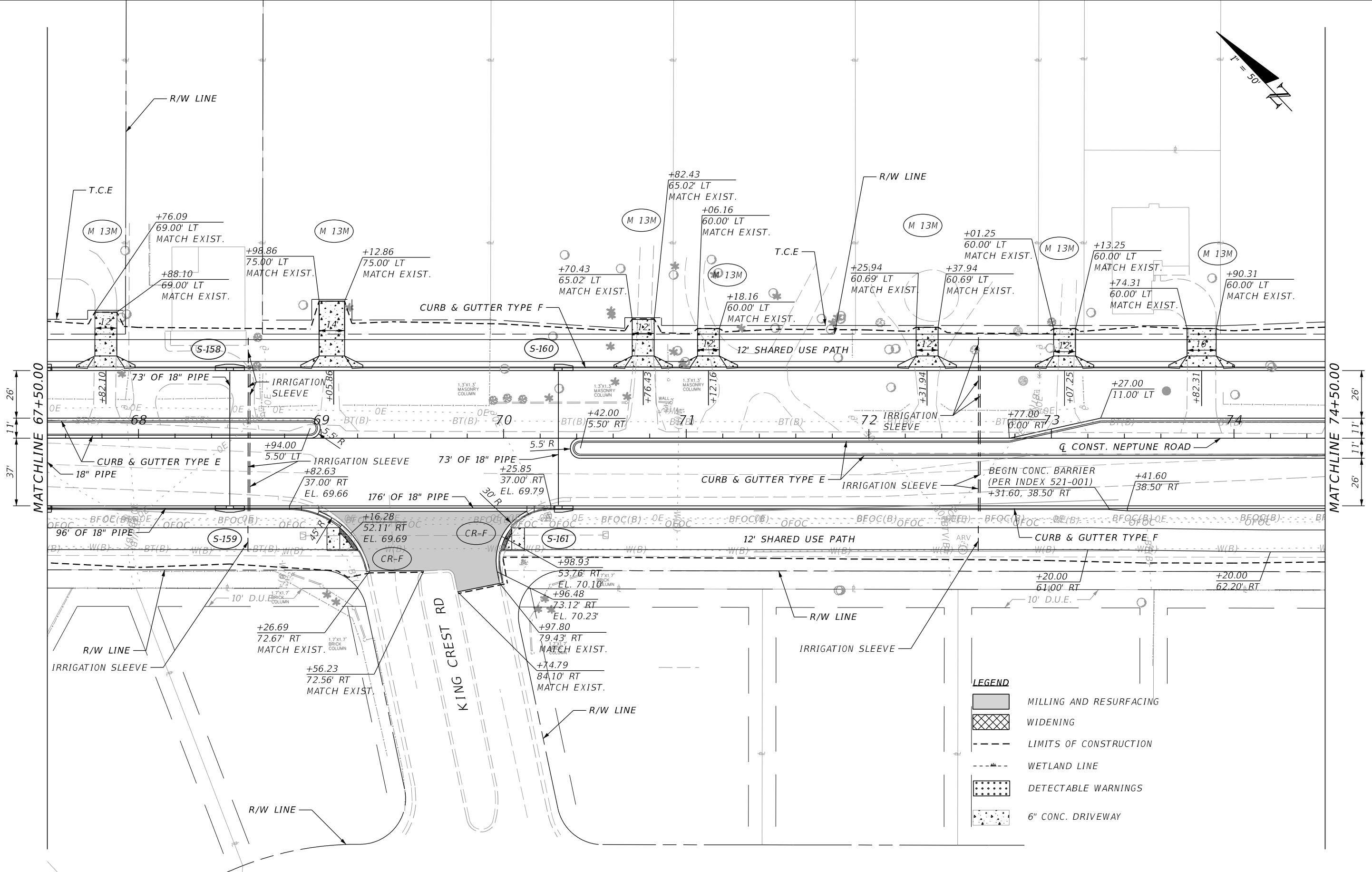
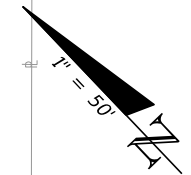


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ROADWAY PLAN (10)

SHEET NO.
45

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LEGEND

	MILLING AND RESURFACING
	WIDENING
	LIMITS OF CONSTRUCTION
	WETLAND LINE
	DETECTABLE WARNINGS
	6" CONC. DRIVEWAY

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

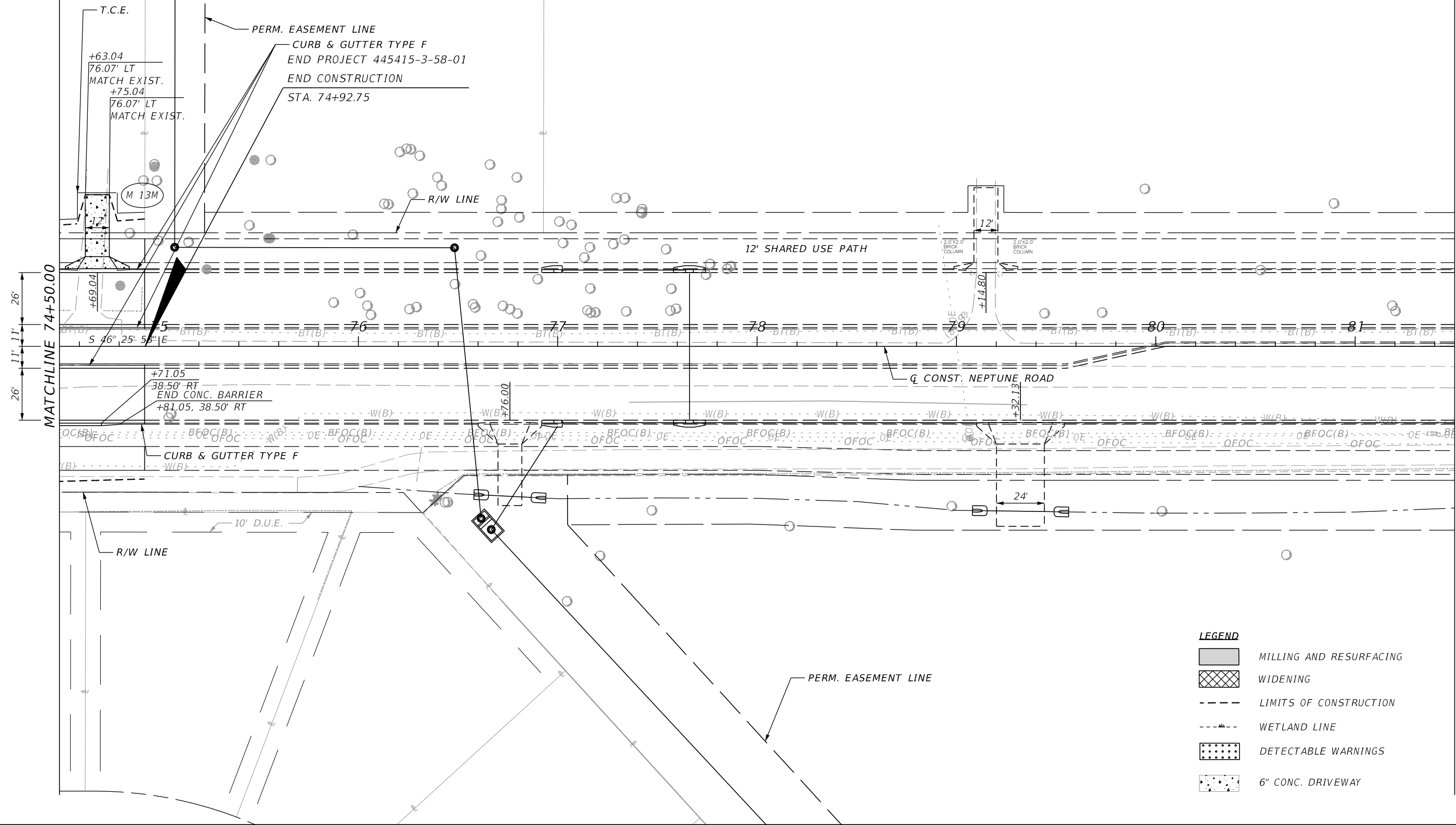
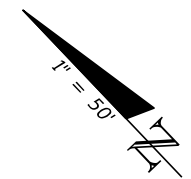


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ROADWAY PLAN (11)

SHEET NO.
46

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LEGEND

	MILLING AND RESURFACING
	WIDENING
	LIMITS OF CONSTRUCTION
	WETLAND LINE
	DETECTABLE WARNINGS
	6" CONC. DRIVEWAY

REVISIONS	
DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
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 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT
 AND TRANSPORTATION

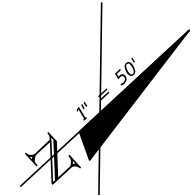
1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE: (407) 742-0662 FAX: (407) 742-0600

ROADWAY PLAN (12)

SHEET NO.
47

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

CURVE DATA CRSPRAIRIE1
 PI STA. = 507+47.11
 Δ = 71° 38' 50" (RT)
 D = 5° 32' 09"
 T = 747.11
 L = 1,294.25
 R = 1,035.00
 PC STA. = 500+00.00
 PT STA. = 512+94.25
 e = MATCH EXIST.

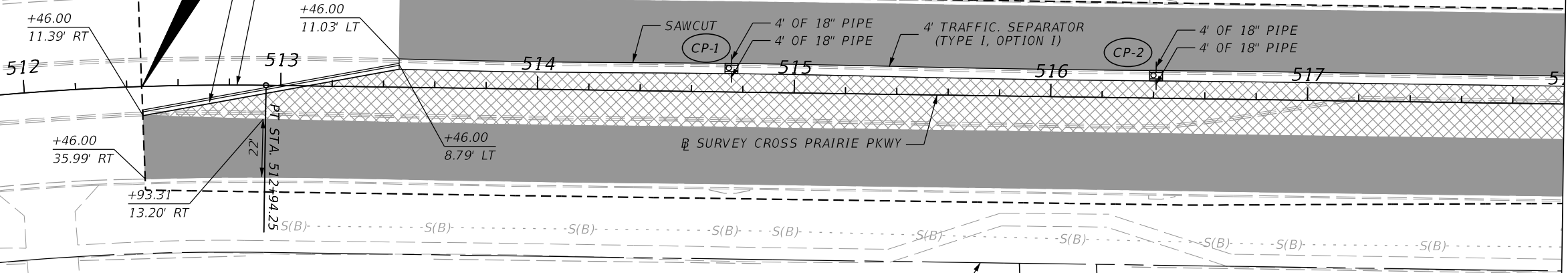


BEGIN MILLING
 RESURFACING & WIDENING
 STA. 512+46.00

CURB & GUTTER TYPE E

CRSPRAIRIE1

R/W LINE









MATCHLINE 518+00.00
 SEE ROADWAY PLAN (5)

R/W LINE


PERM. EASEMENT LINE

LEGEND

	MILLING AND RESURFACING
	WIDENING
	LIMITS OF CONSTRUCTION
	WETLAND LINE
	DETECTABLE WARNINGS
	6" CONC. DRIVEWAY

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801



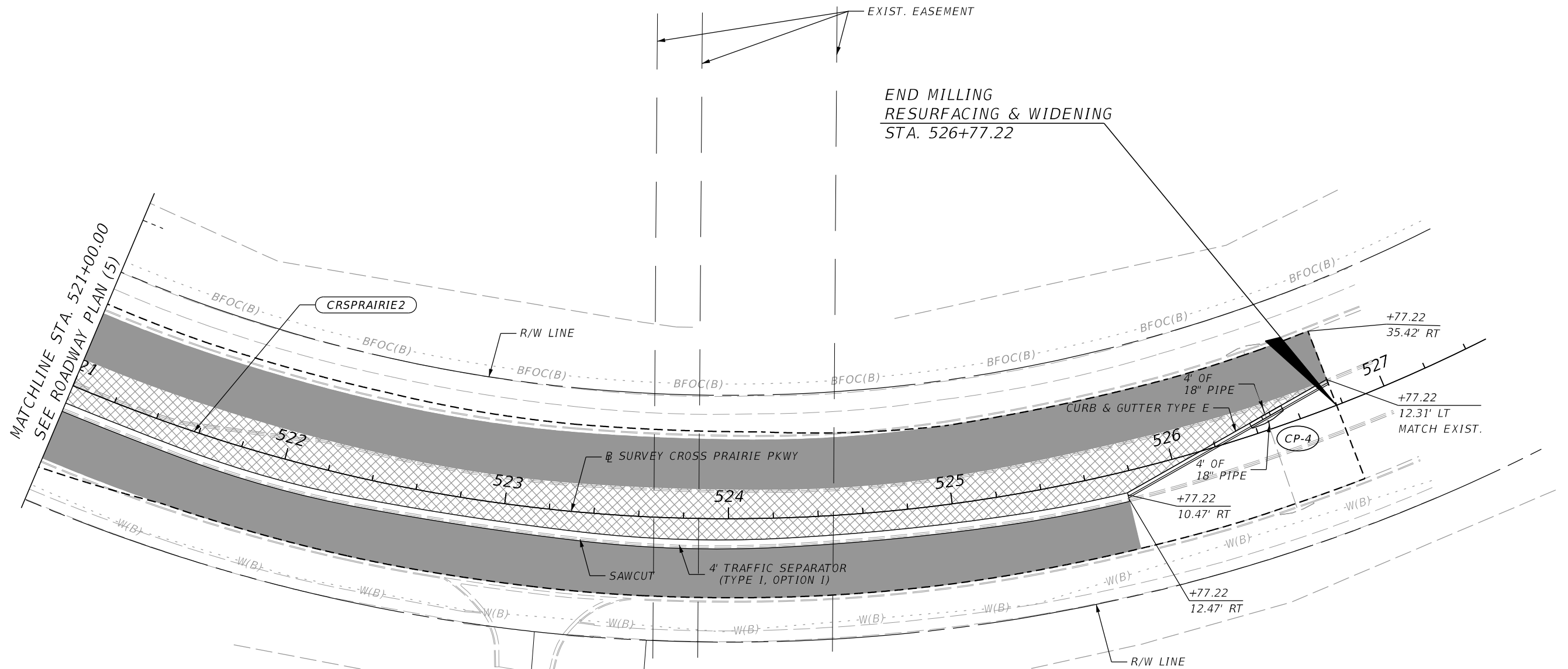
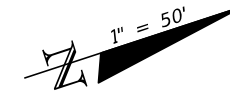
OSCEOLA COUNTY TRANSIT
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 1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE:(407) 742-0662 FAX:(407) 742-0600

ROADWAY PLAN (13)
CROSS PRAIRIE PKWY

SHEET
 NO.
48

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

CURVE DATA CRSPRAIRIE2
 PI STA. = 530+01.94
 Δ = 102° 30' 54" (LT)
 D = 7° 38' 22"
 T = 934.73
 L = 1,341.92
 R = 750.00
 PC STA. = 520+67.21
 PT STA. = 534+09.13
 e = MATCH EXIST.



LEGEND

	MILLING AND RESURFACING
	WIDENING
	LIMITS OF CONSTRUCTION
	WETLAND LINE
	DETECTABLE WARNINGS
	6" CONC. DRIVEWAY

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
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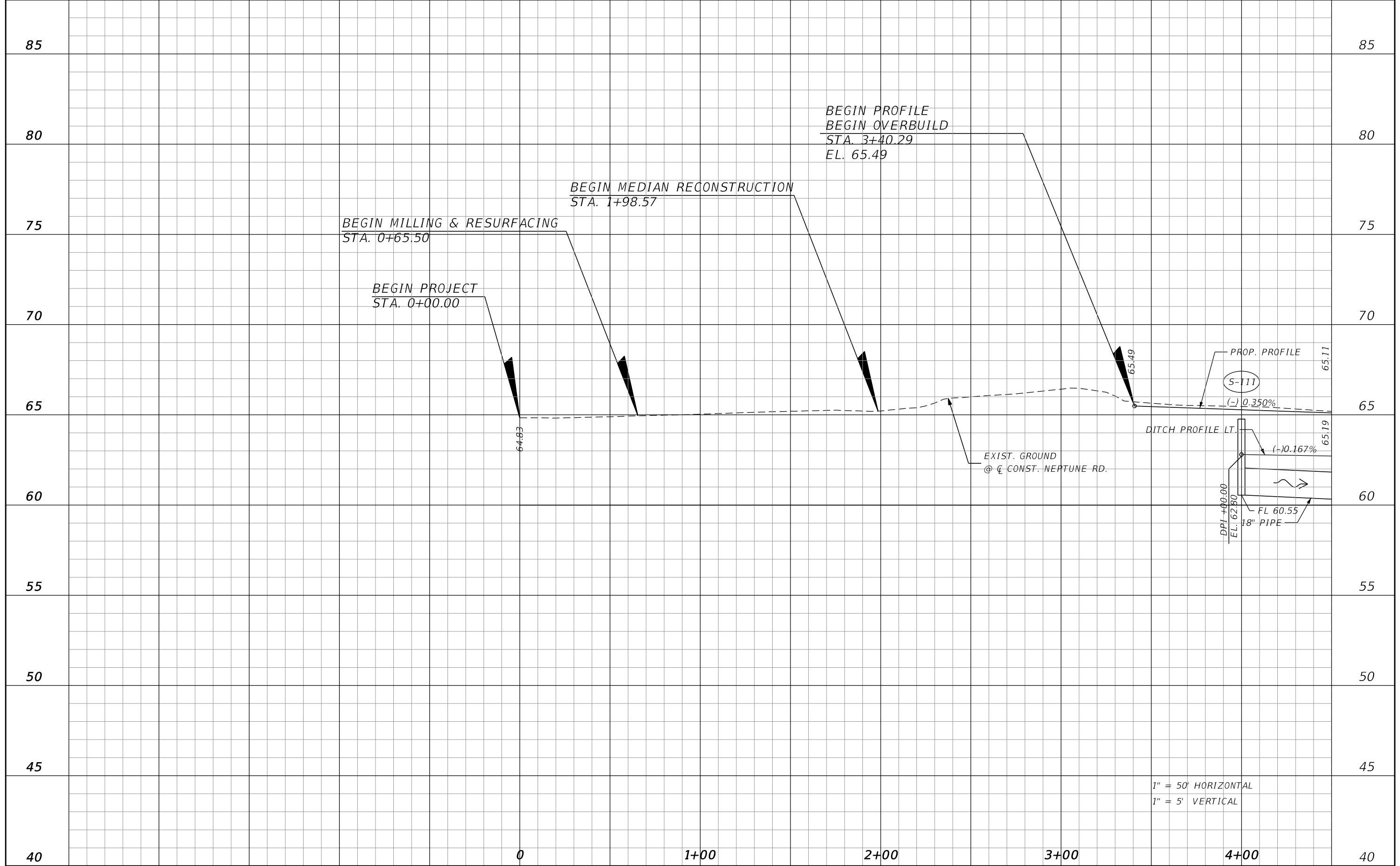
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 KISSIMMEE, FLORIDA 34741-5488
 PHONE: (407) 742-0662 FAX: (407) 742-0600

ROADWAY PLAN (14)
CROSS PRAIRIE PKWY

SHEET
 NO.
49

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1" = 50' HORIZONTAL
1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

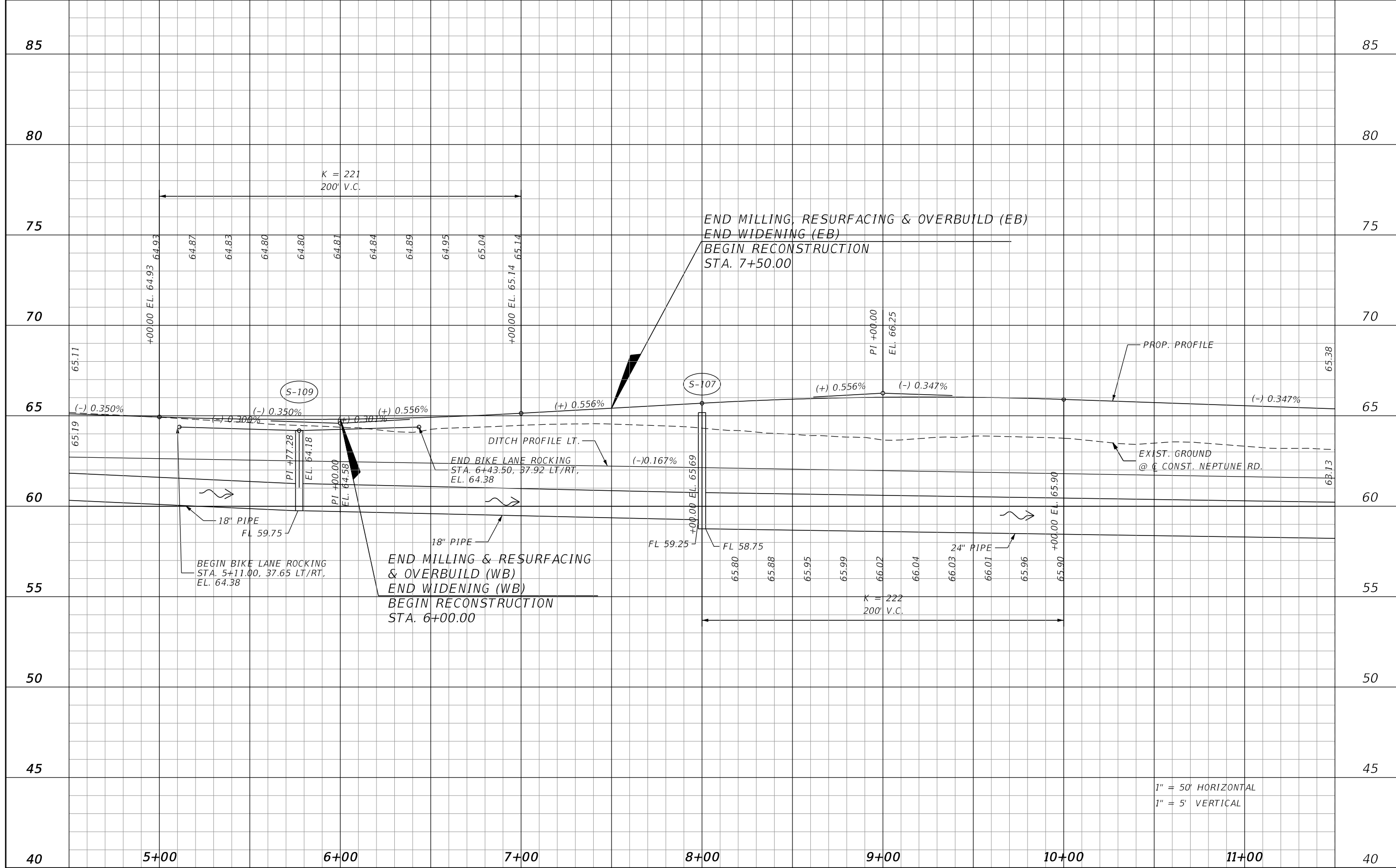
DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

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1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
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ROADWAY PROFILE (1)

SHEET NO.
50

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1" = 50' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

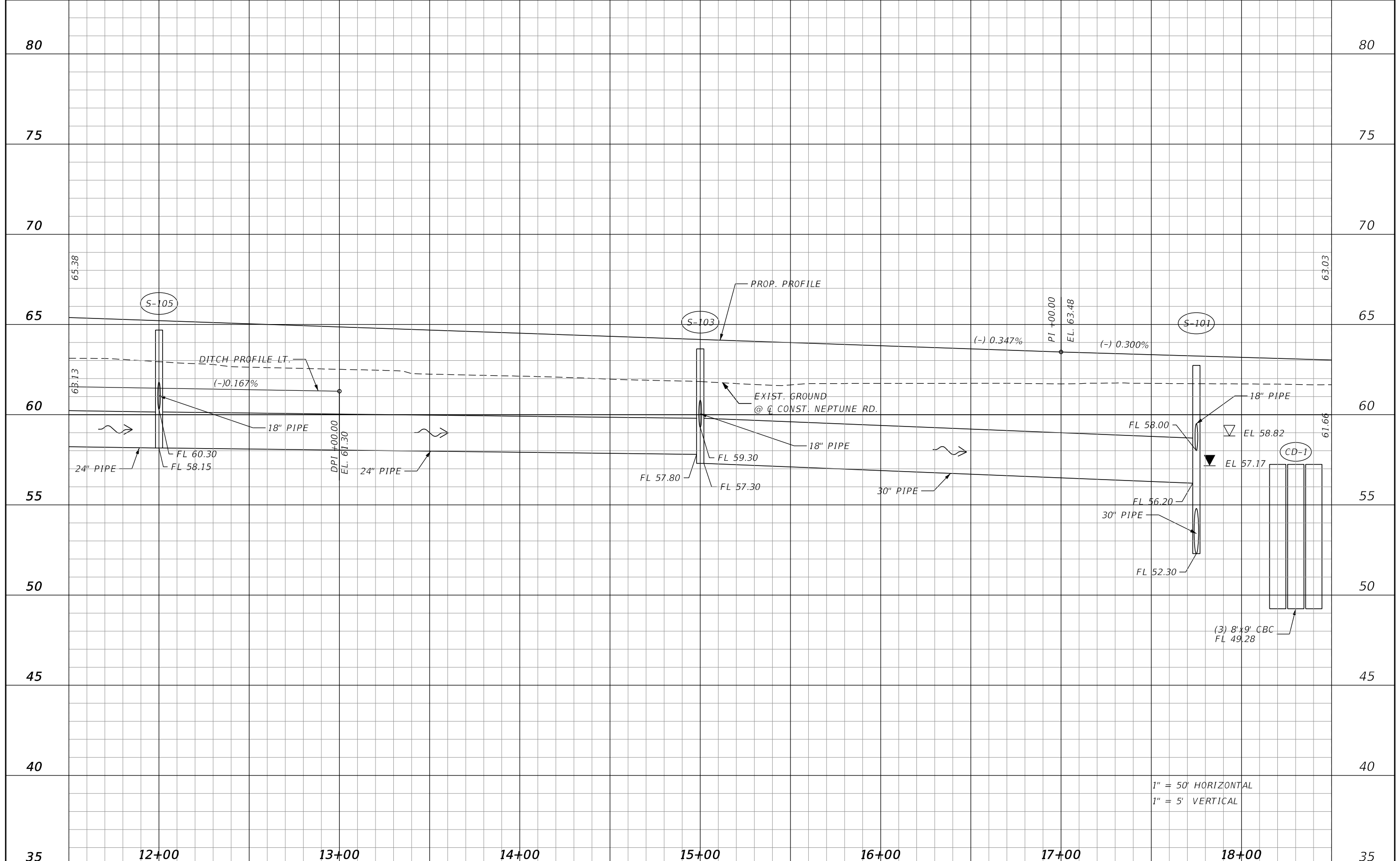
DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
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ROADWAY PROFILE (2)

SHEET NO.
51


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1" = 50' HORIZONTAL
1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

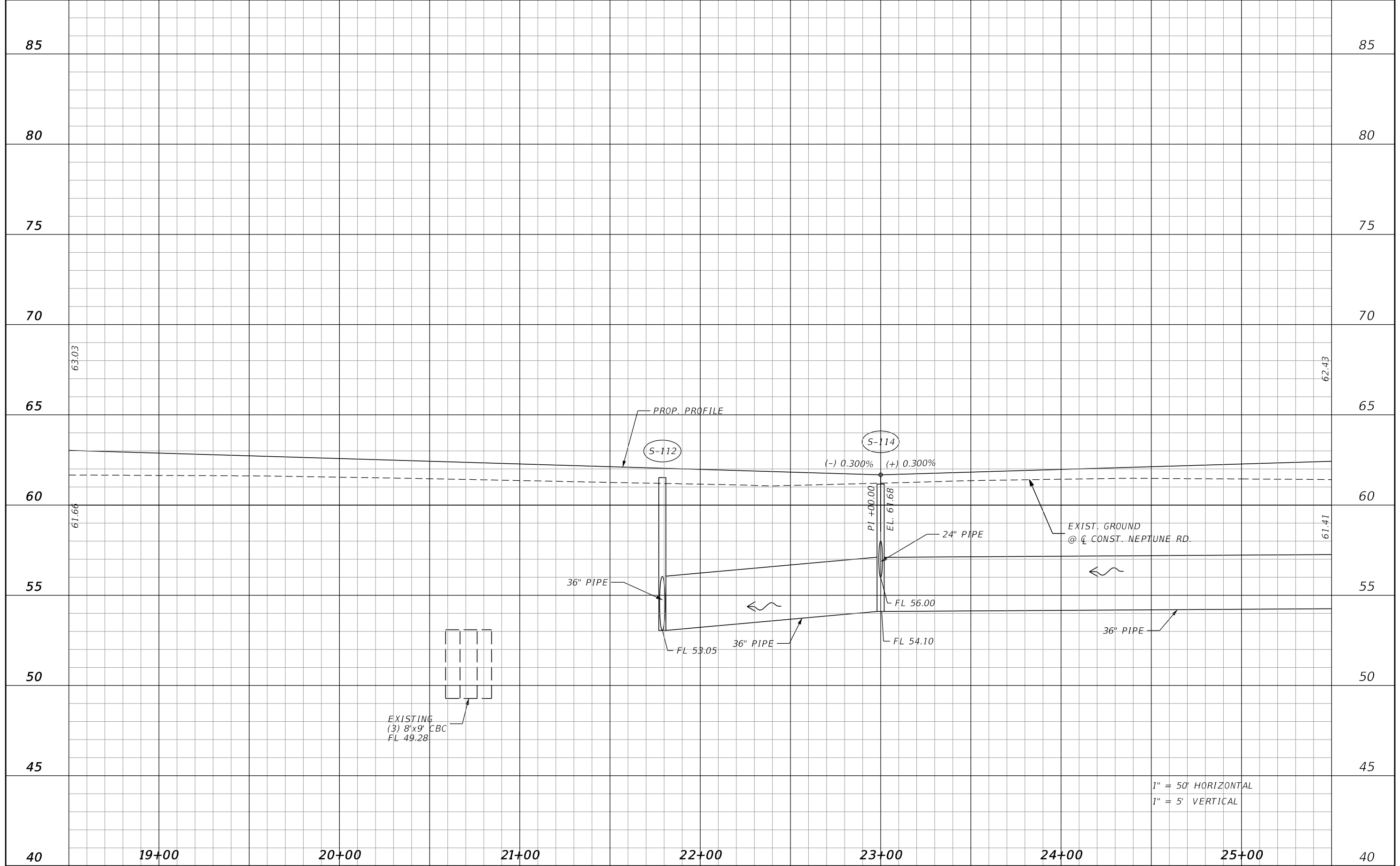
DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

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1 COURTHOUSE SQUARE, SUITE 3100
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ROADWAY PROFILE (3)

SHEET NO.
52

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1" = 50' HORIZONTAL
1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

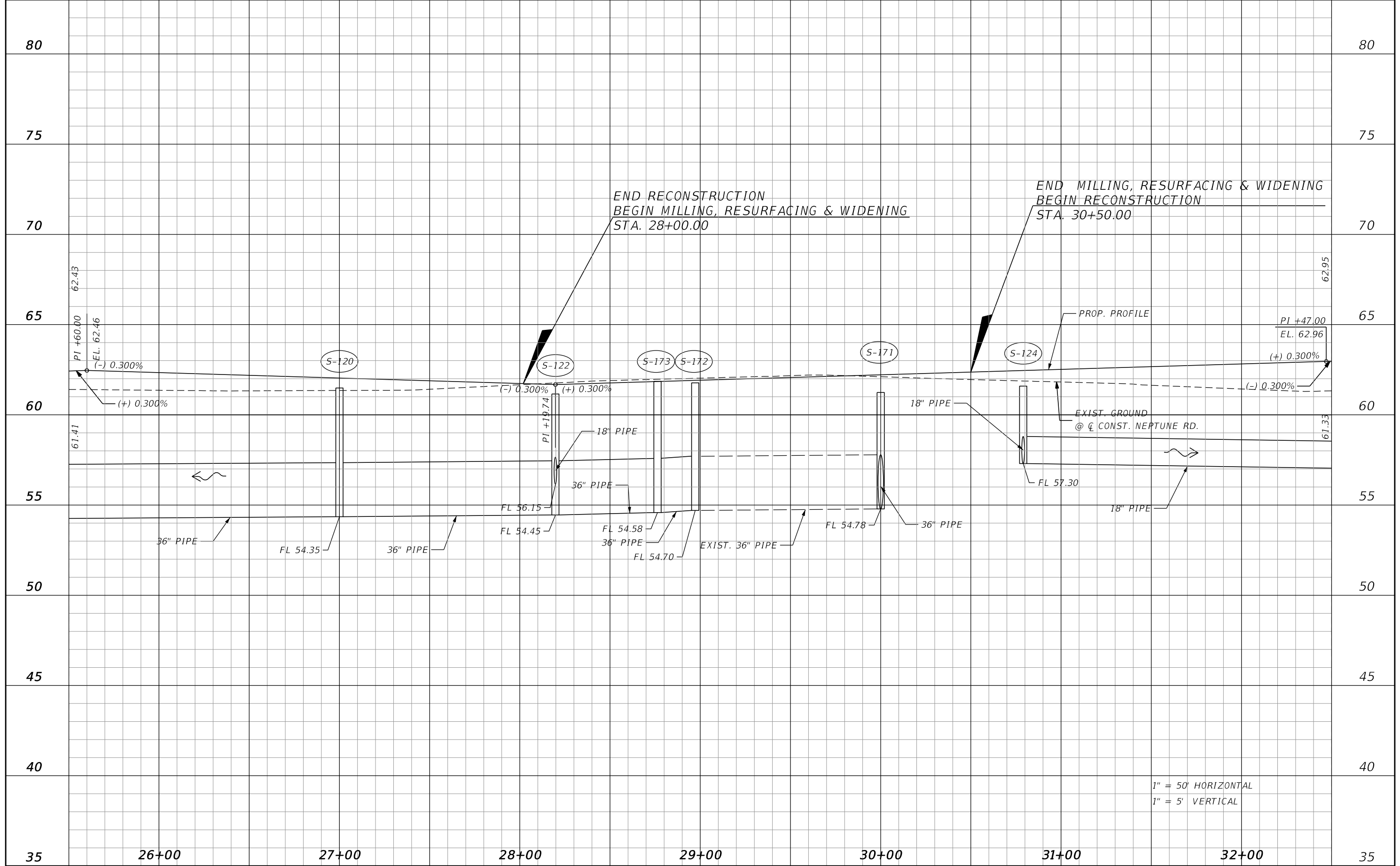
DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
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1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
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ROADWAY PROFILE (4)

SHEET NO.
53

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1" = 50' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

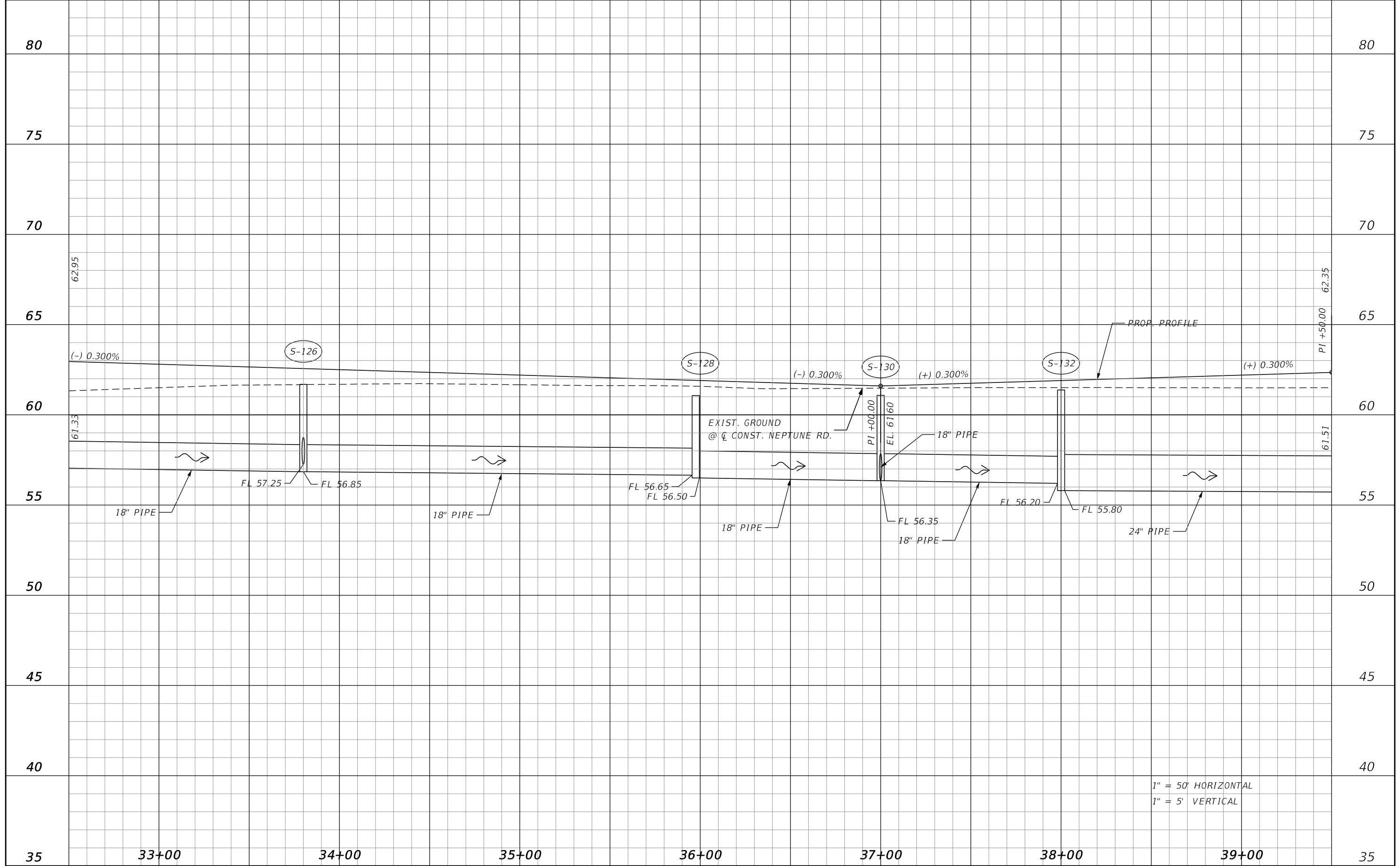
DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
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 1 COURTHOUSE SQUARE, SUITE 3100
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ROADWAY PROFILE (5)

SHEET NO.
54

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1" = 50' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

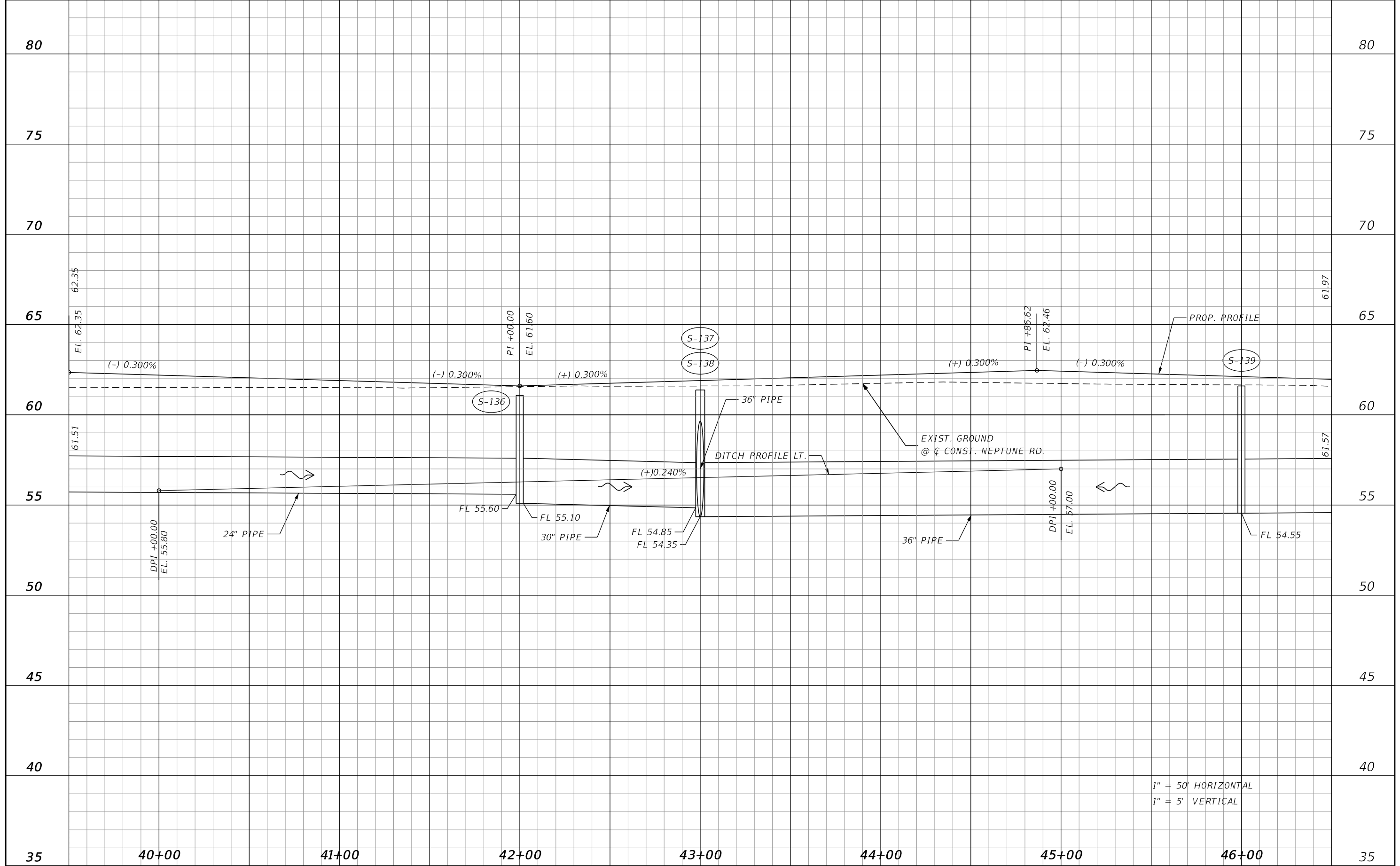
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ROADWAY PROFILE (6)

SHEET NO.
55

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1" = 50' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

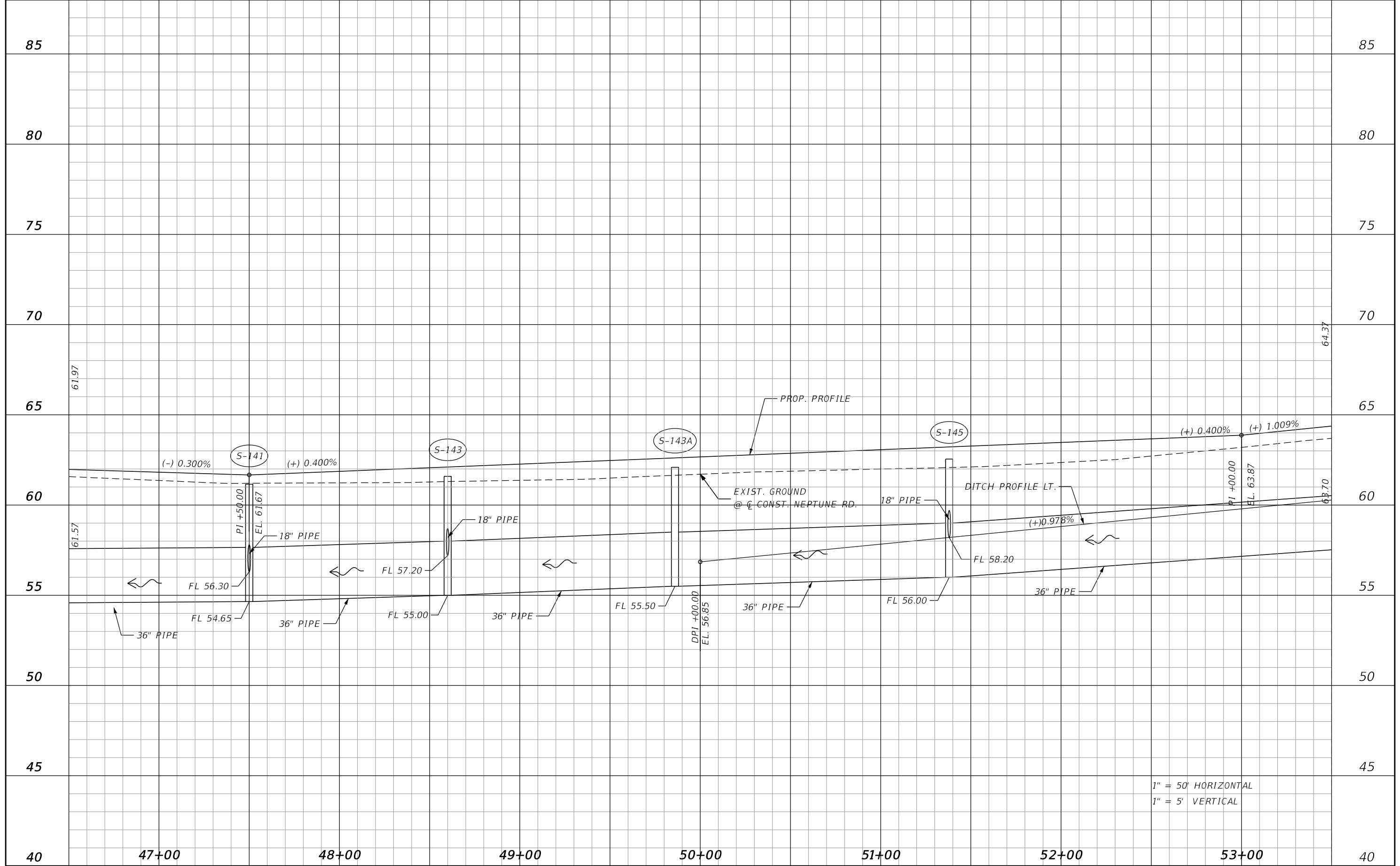
DONGHANG ZHAO, P.E.
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 1 COURTHOUSE SQUARE, SUITE 3100
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ROADWAY PROFILE (7)

SHEET NO.
56

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1" = 50' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

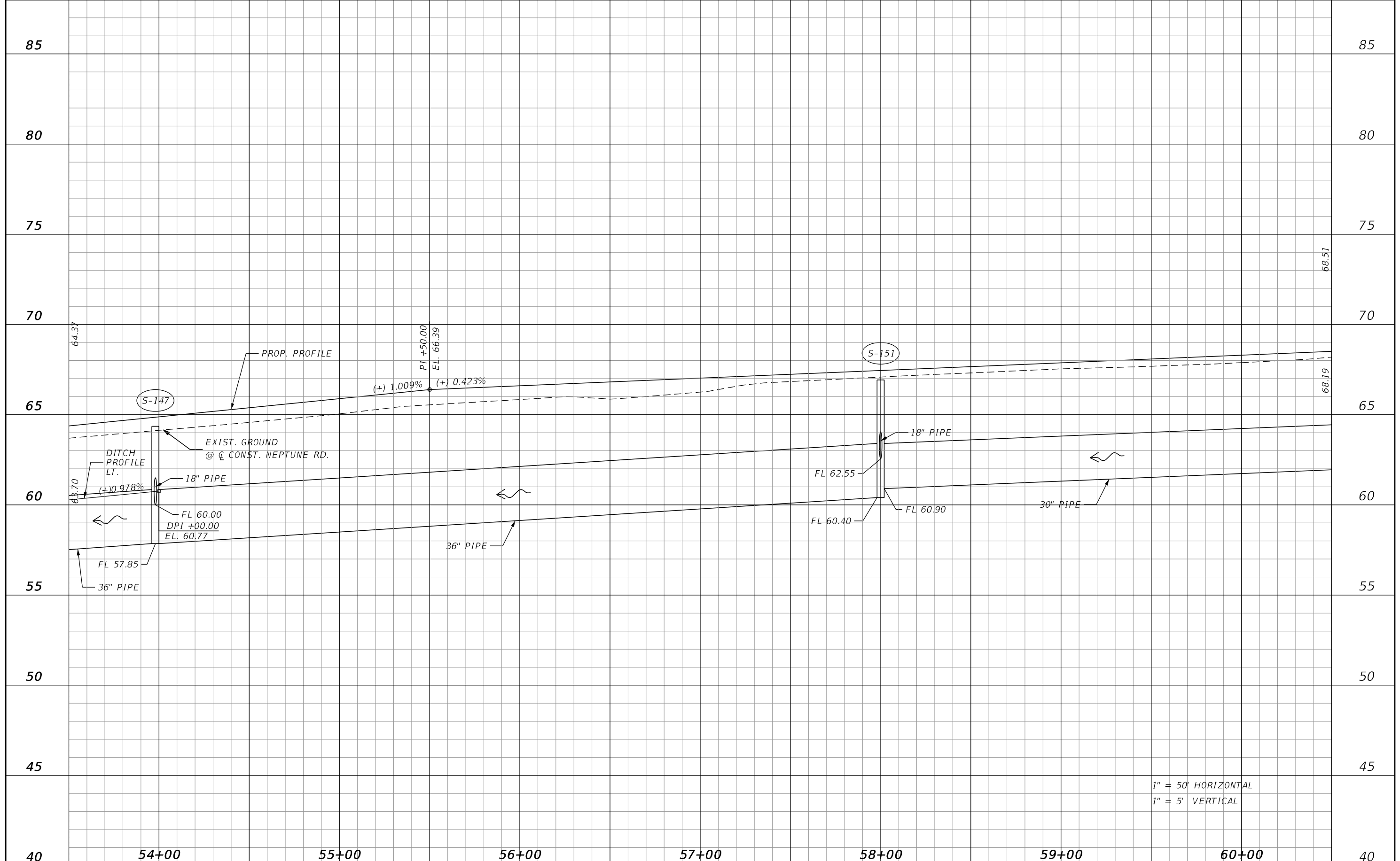
DONGHANG ZHAO, P.E.
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ROADWAY PROFILE (8)

SHEET NO.
57


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 1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

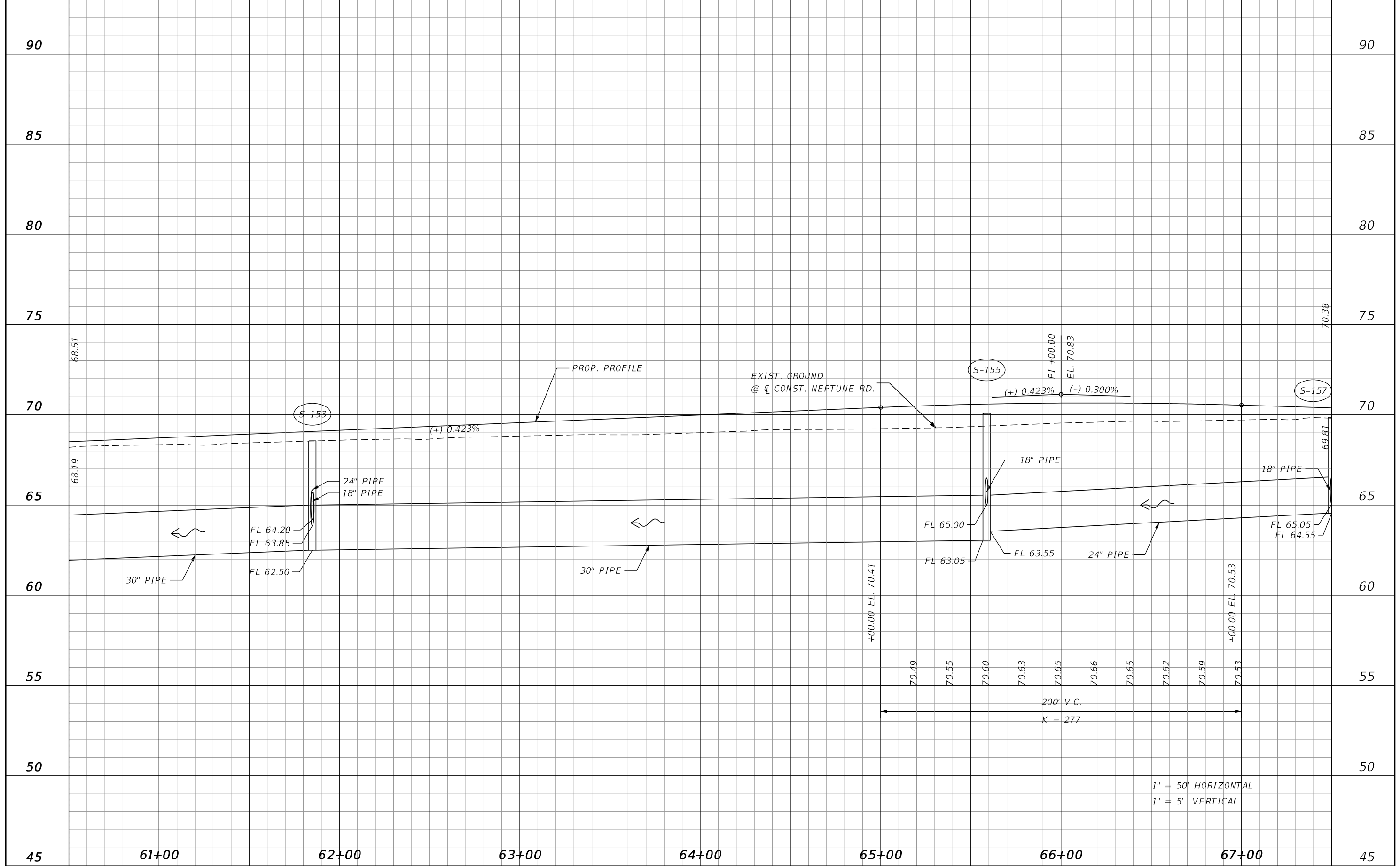
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ROADWAY PROFILE (9)

SHEET NO.
58

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REVISIONS			
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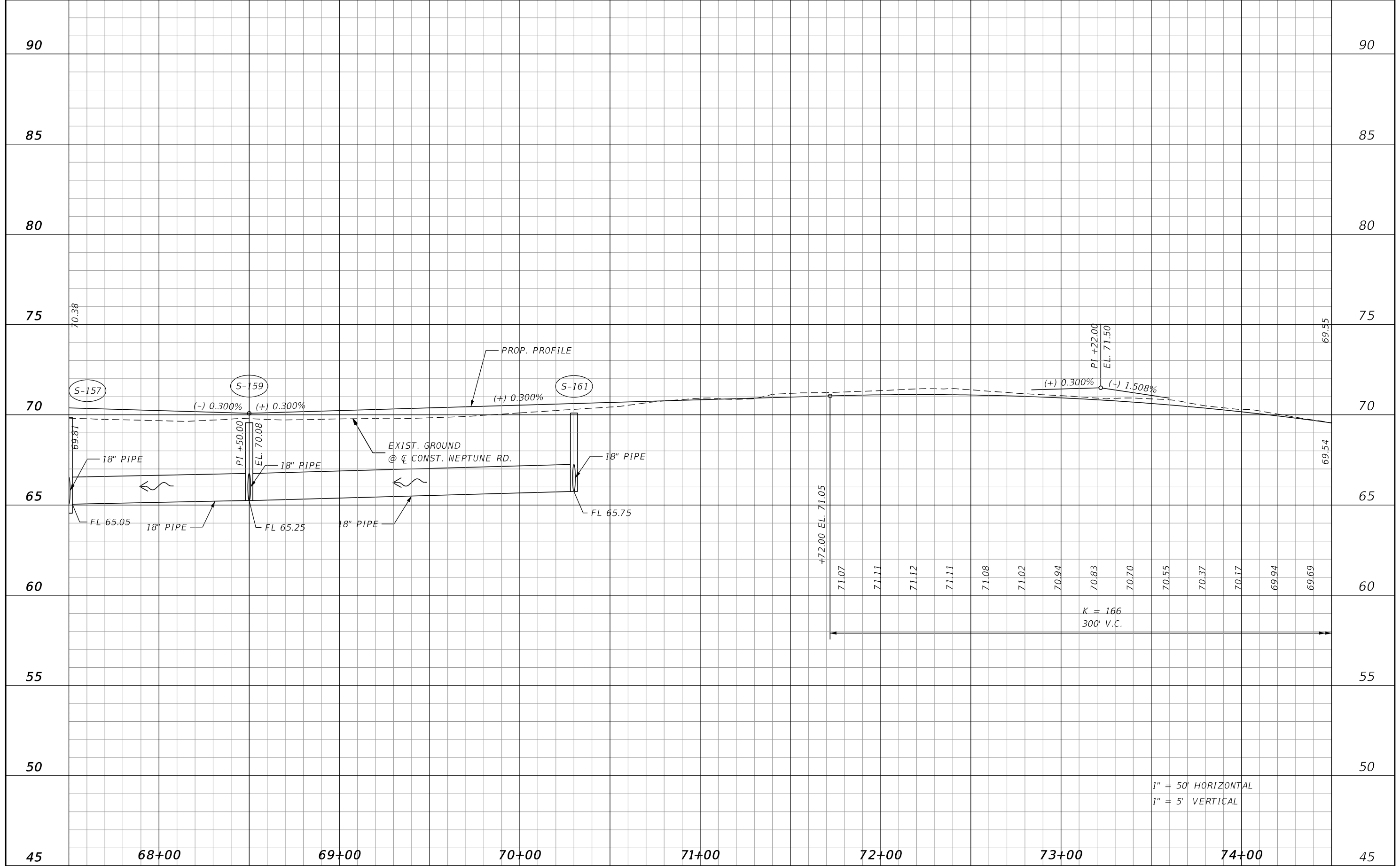
DONGHANG ZHAO, P.E.
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ROADWAY PROFILE (10)

SHEET NO.
59

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1" = 50' HORIZONTAL
1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

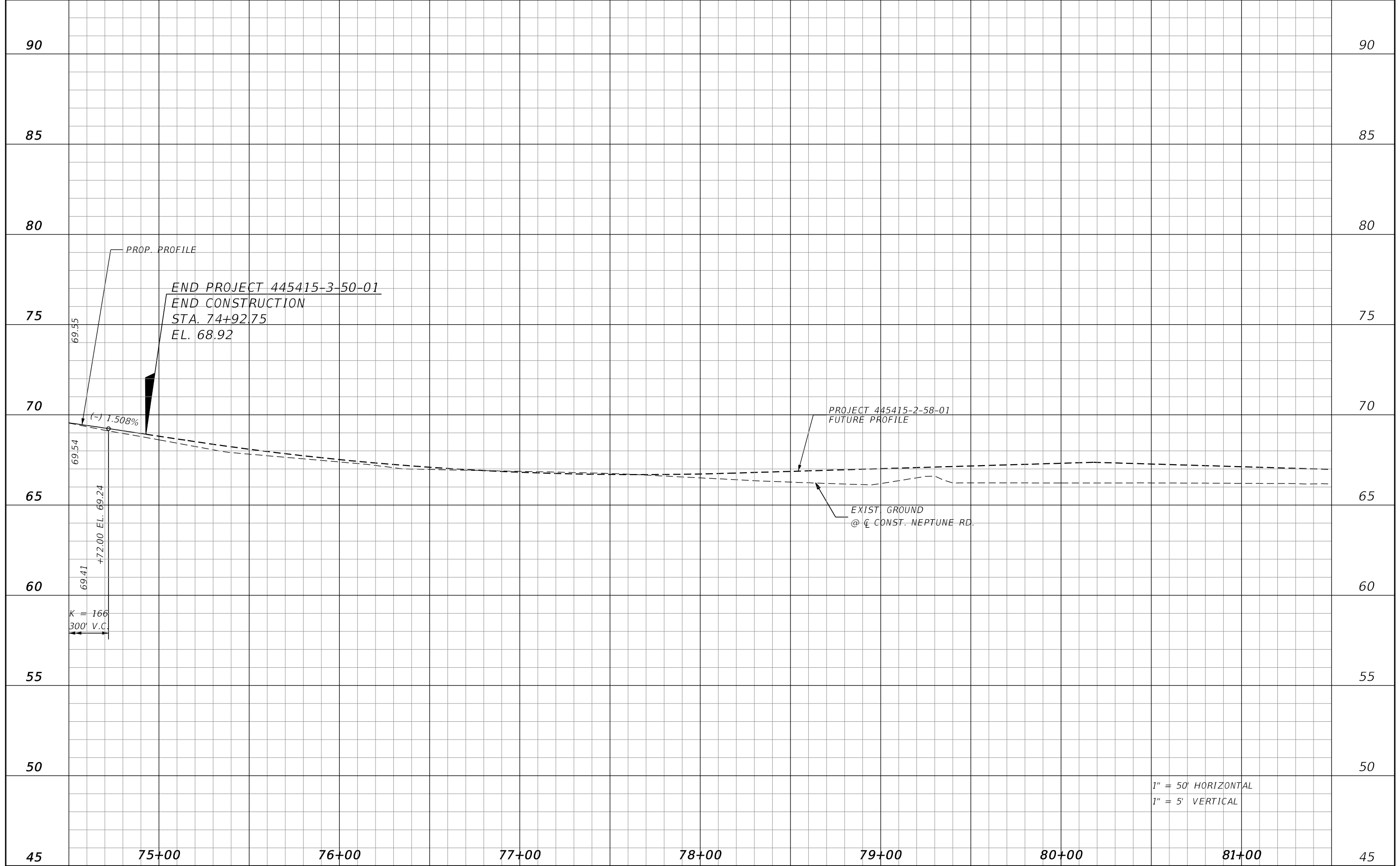
DONGHANG ZHAO, P.E.
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GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

ROADWAY PROFILE (11)

SHEET NO.
60

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1" = 50' HORIZONTAL
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REVISIONS			
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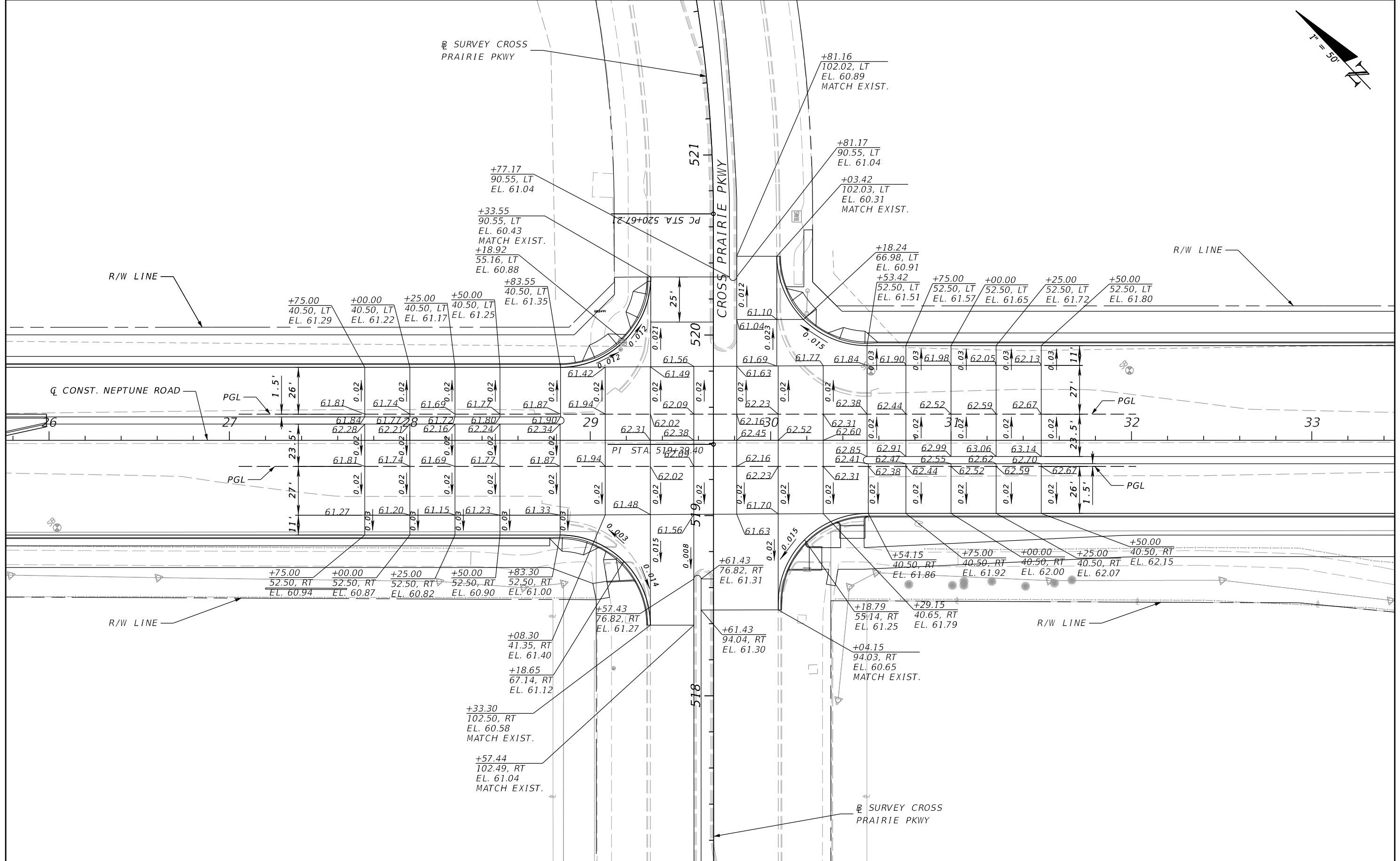
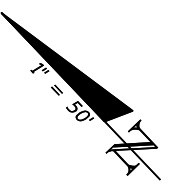
DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
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ORLANDO, FL 32801

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KISSIMMEE, FLORIDA 34741-5488
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ROADWAY PROFILE (12)

SHEET NO.
61

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
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 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT
 AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE: (407) 742-0662 FAX: (407) 742-0600

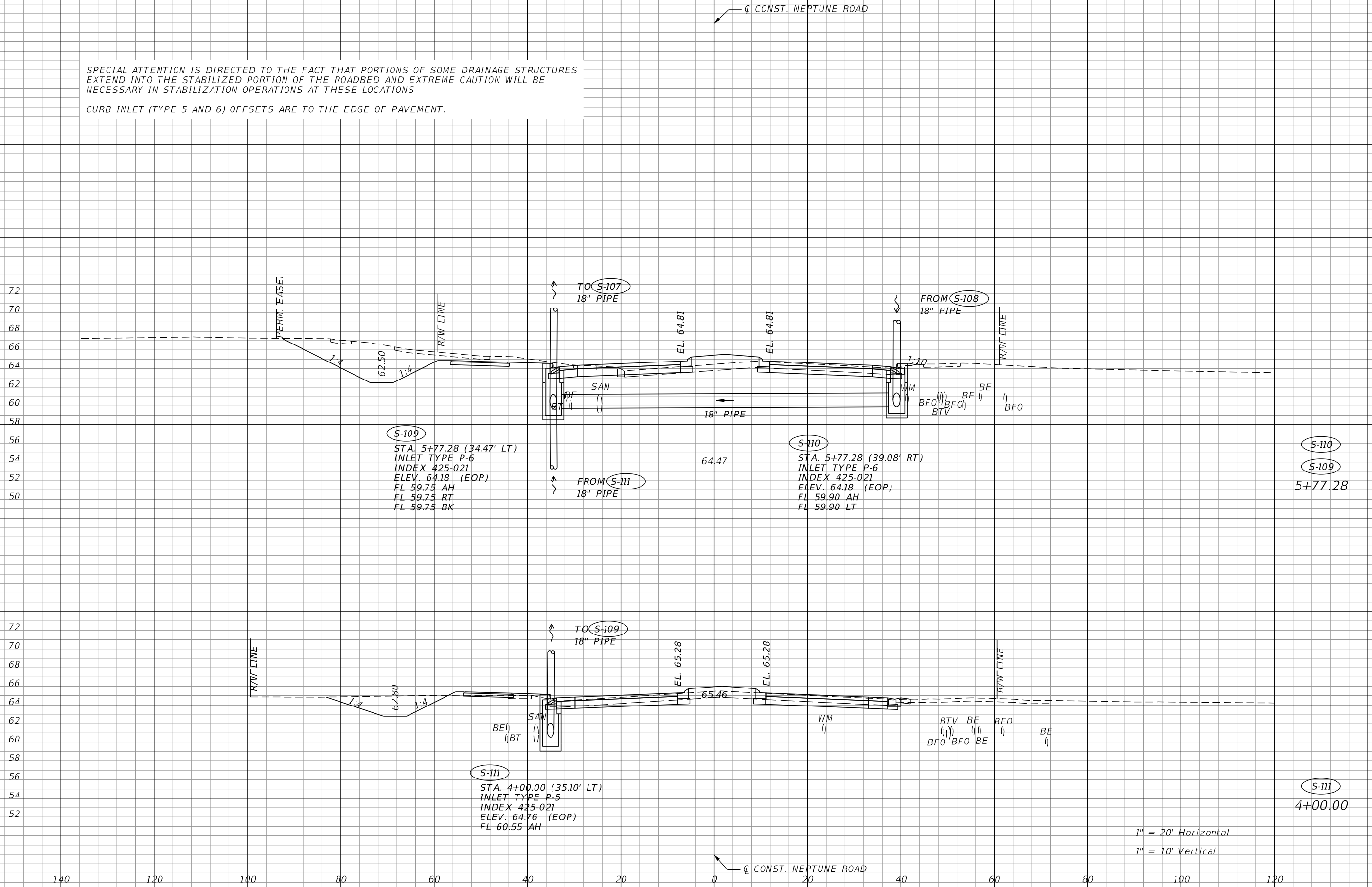
INTERSECTION DETAIL (1)

SHEET
NO.
62

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROADBED AND EXTREME CAUTION WILL BE NECESSARY IN STABILIZATION OPERATIONS AT THESE LOCATIONS

CURB INLET (TYPE 5 AND 6) OFFSETS ARE TO THE EDGE OF PAVEMENT.



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

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

DRAINAGE STRUCTURES

SHEET NO.
63

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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CONST. NEPTUNE ROAD

CONST. NEPTUNE ROAD

PERM. EASEMENT

PERM. EAS

R/W LINE

R/W LINE

R/W LINE

R/W LINE

T.C.E

S-107

STA. 8+00.00 (35.43' LT)
INLET TYPE P-5
INDEX 425-021
ELEV. 65.17 (EOP)
FL 58.75 AH
FL 59.25 BK

S-108

STA. 6+50.00 (39.18' RT)
INLET TYPE P-5
INDEX 425-021
ELEV. 64.40 (EOP)
FL 60.15 BK

TO S-105
24" PIPE

FROM S-109
18" PIPE

TO S-110
18" PIPE

S-107
8+00.00

S-108
6+50.00

BE
BT

SAN
BT

WM

BE
BT

SAN
BT

WM
BE
BT

BFO
BE
BFO

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
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DRAINAGE STRUCTURES

SHEET NO.
64

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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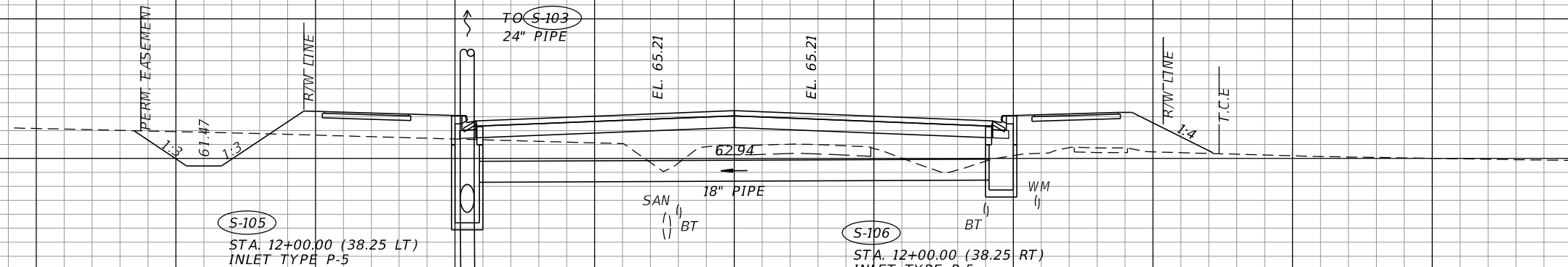
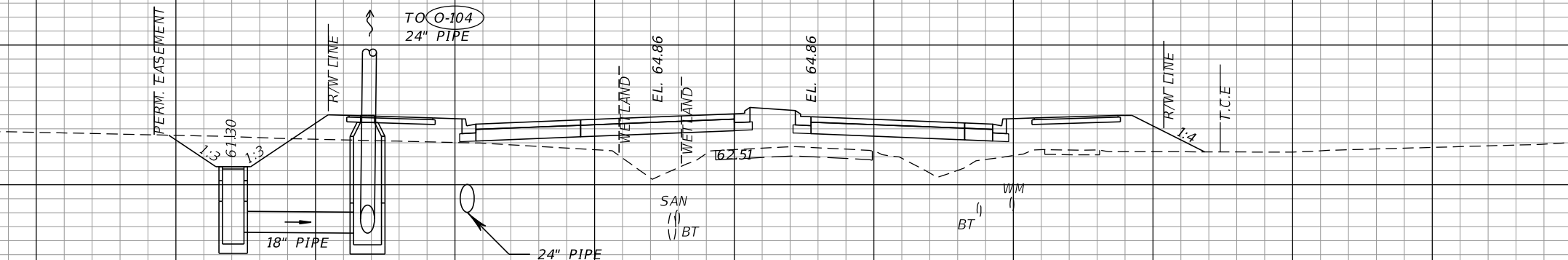
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CONST. NEPTUNE ROAD

CONST. NEPTUNE ROAD



O-102
O-101
13+00.00

S-106
S-105
12+00.00

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

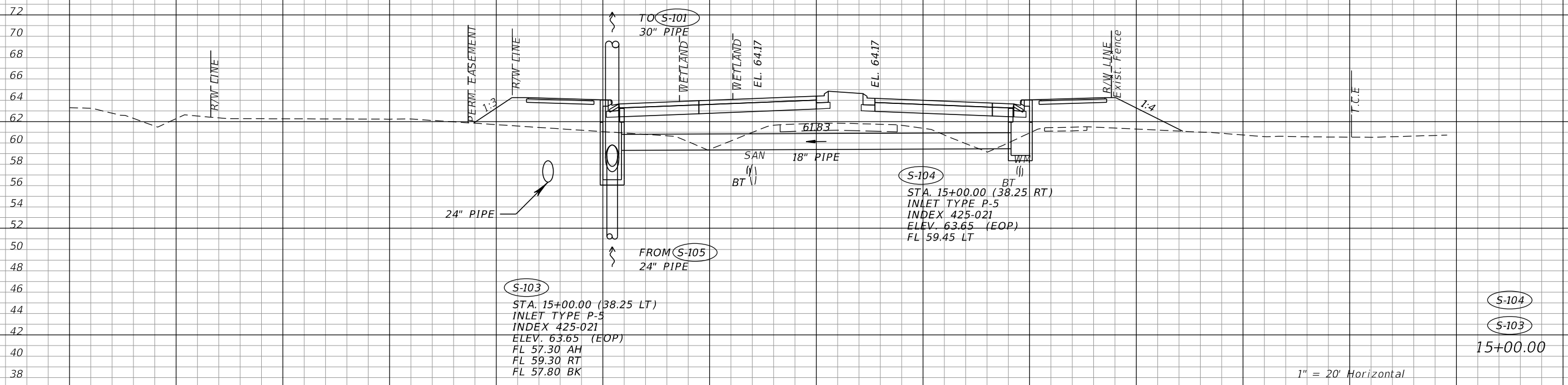
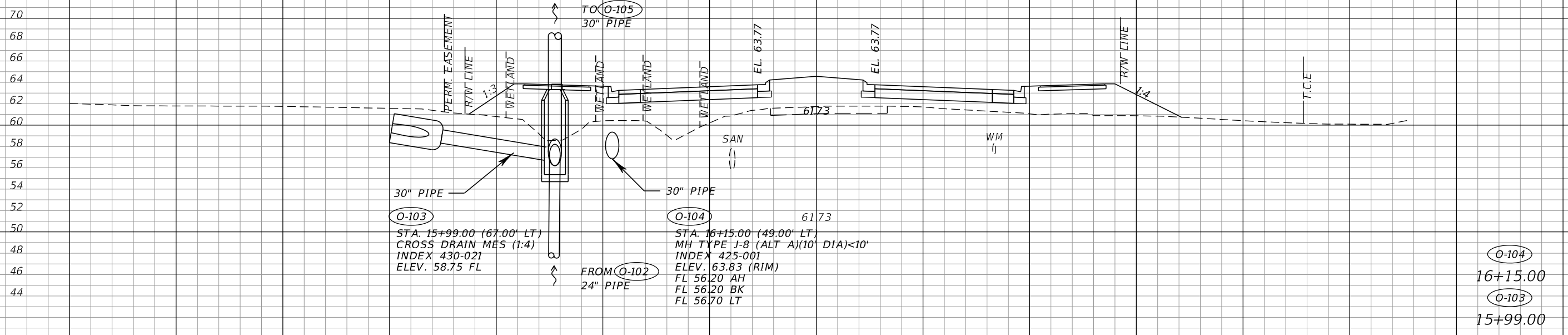
DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
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DRAINAGE STRUCTURES

SHEET NO.
65

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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ORLANDO, FL 32801

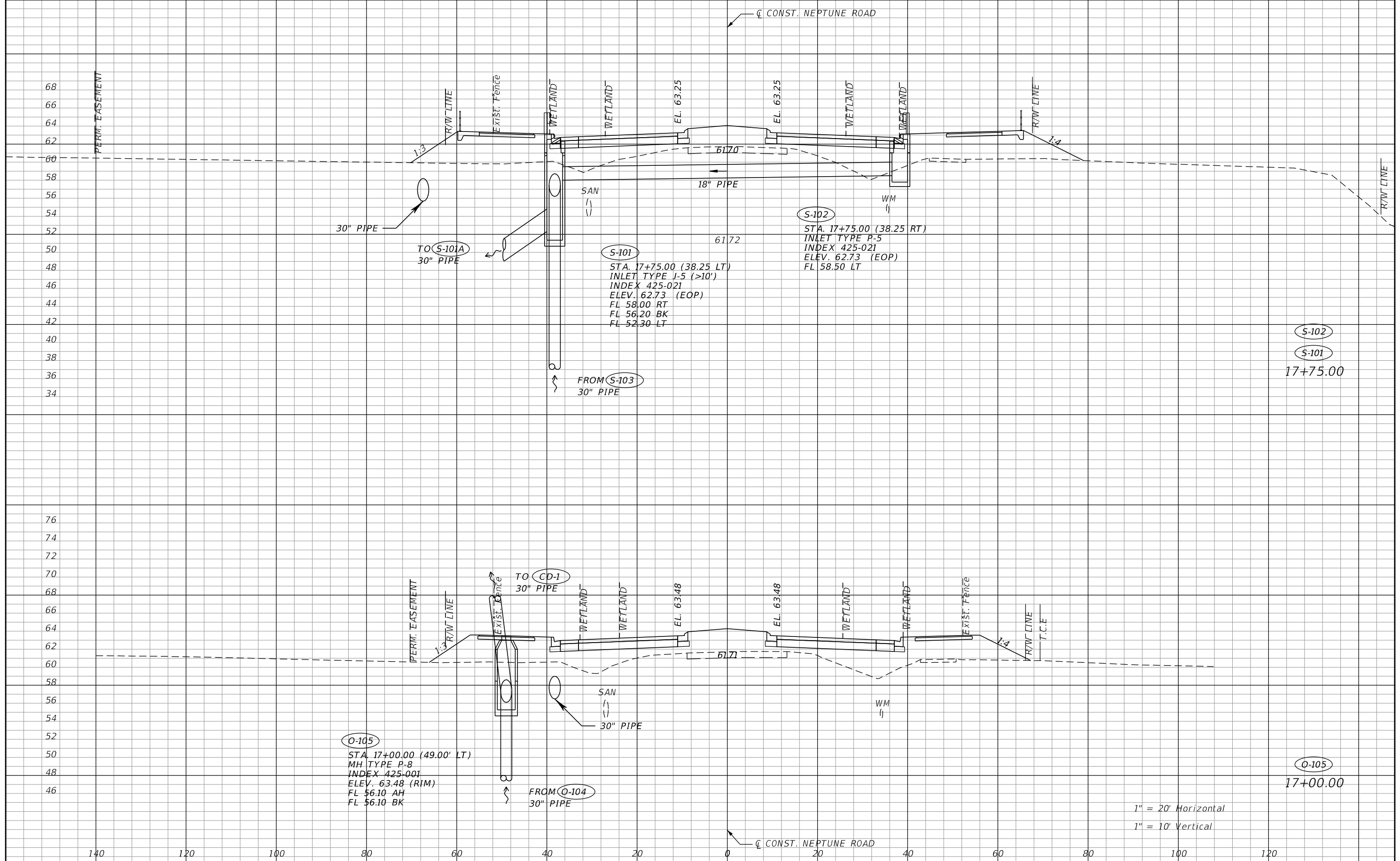


OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
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DRAINAGE STRUCTURES

SHEET NO.
66

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



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140 120 100 80 60 40 20 0 20 40 60 80 100 120

S-102
S-101
17+75.00

O-105
17+00.00

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

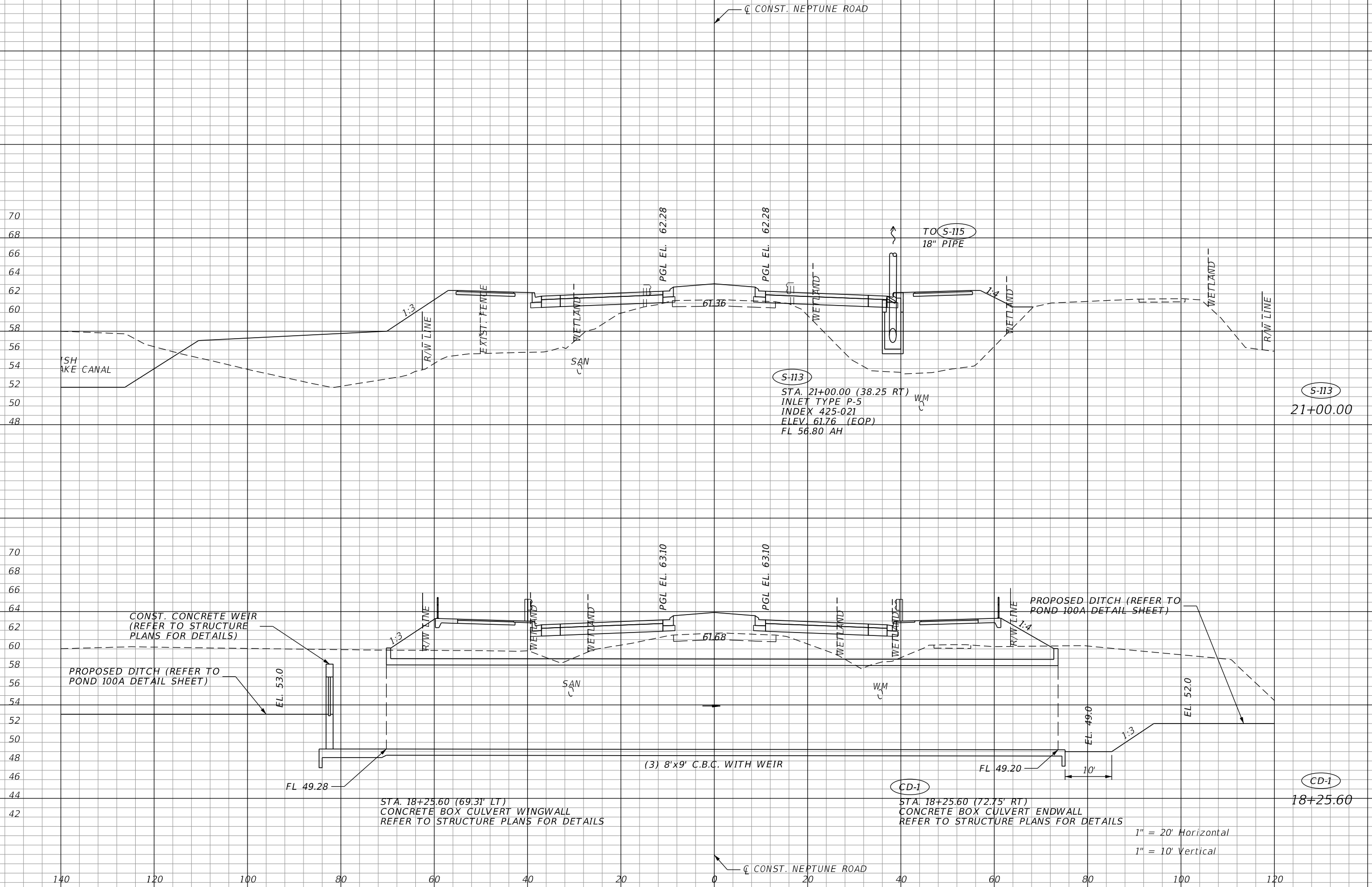
DAVID R. VERLANDER, P.E.
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GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

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1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
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DRAINAGE STRUCTURES

SHEET NO.
67

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140 120 100 80 60 40 20 0 20 40 60 80 100 120

S-113
STA. 21+00.00 (38.25' RT)
INLET TYPE P-5
INDEX 425-021
ELEV. 61.76 (EQP)
FL 56.80 AH

STA. 18+25.60 (69.31' LT)
CONCRETE BOX CULVERT WINGWALL
REFER TO STRUCTURE PLANS FOR DETAILS

CD-1
STA. 18+25.60 (72.75' RT)
CONCRETE BOX CULVERT ENDWALL
REFER TO STRUCTURE PLANS FOR DETAILS

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE: (407) 742-0662 FAX: (407) 742-0600

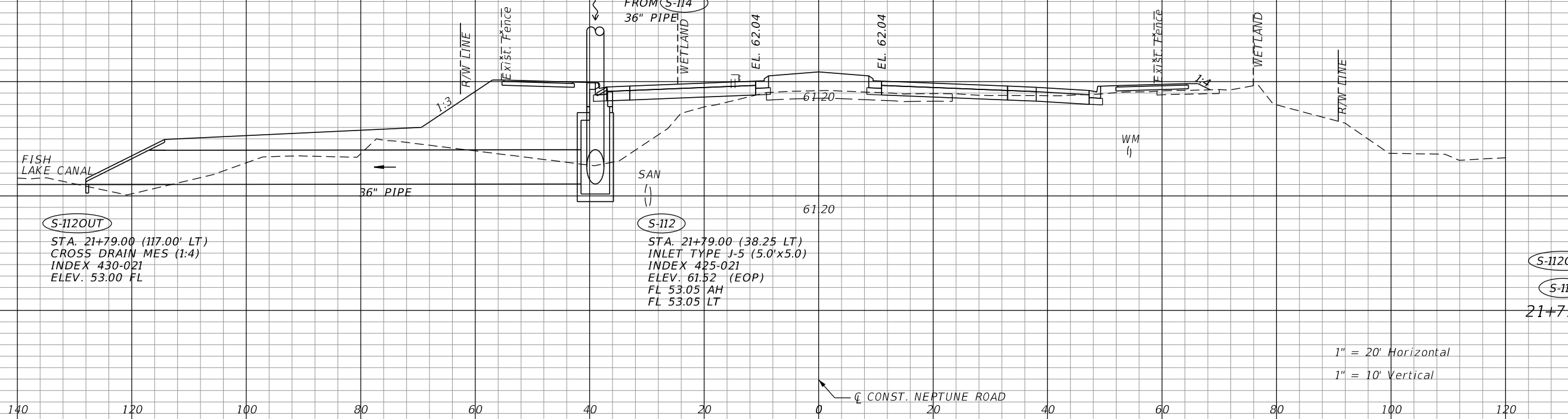
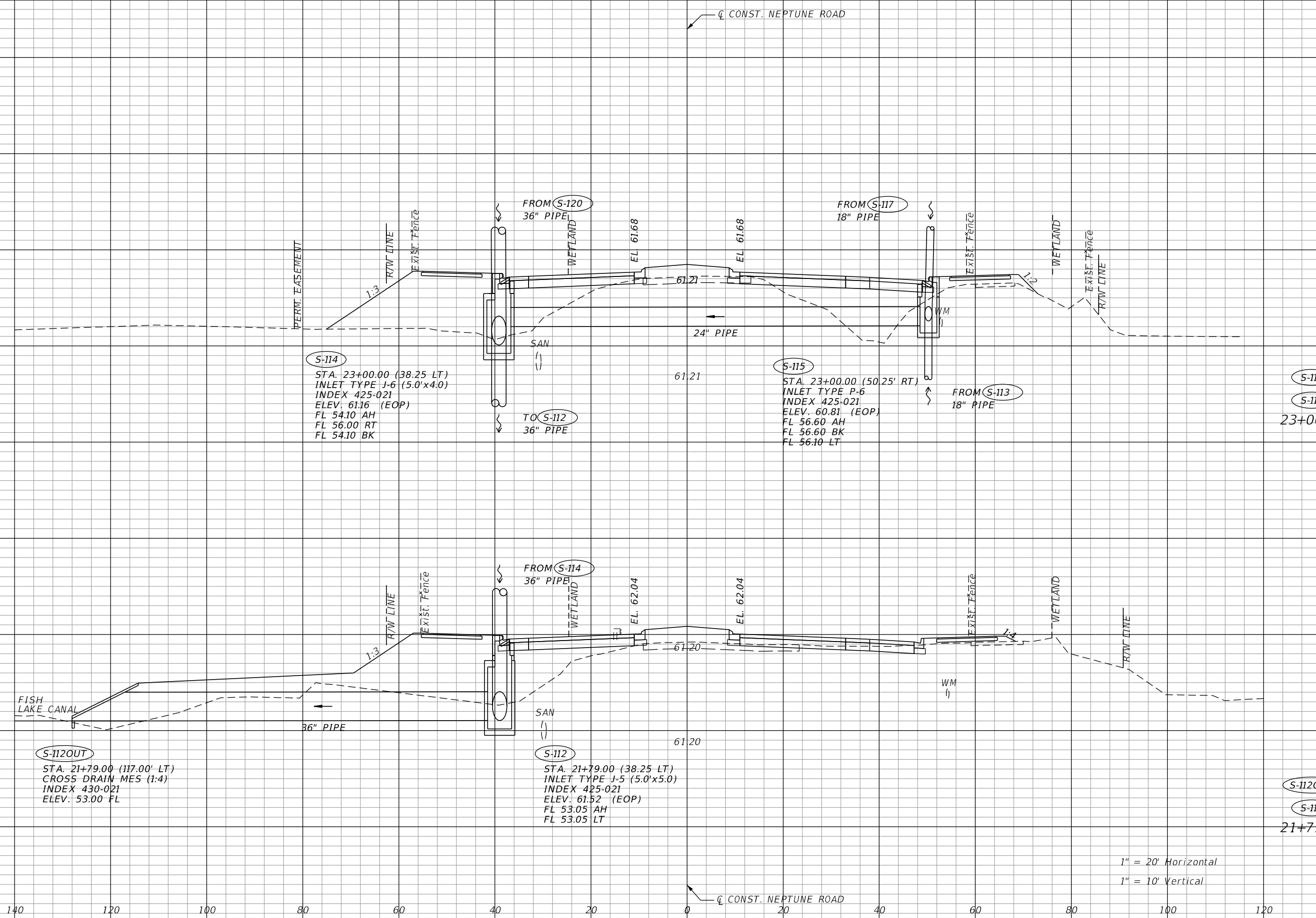
DRAINAGE STRUCTURES

SHEET NO.
68

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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

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REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

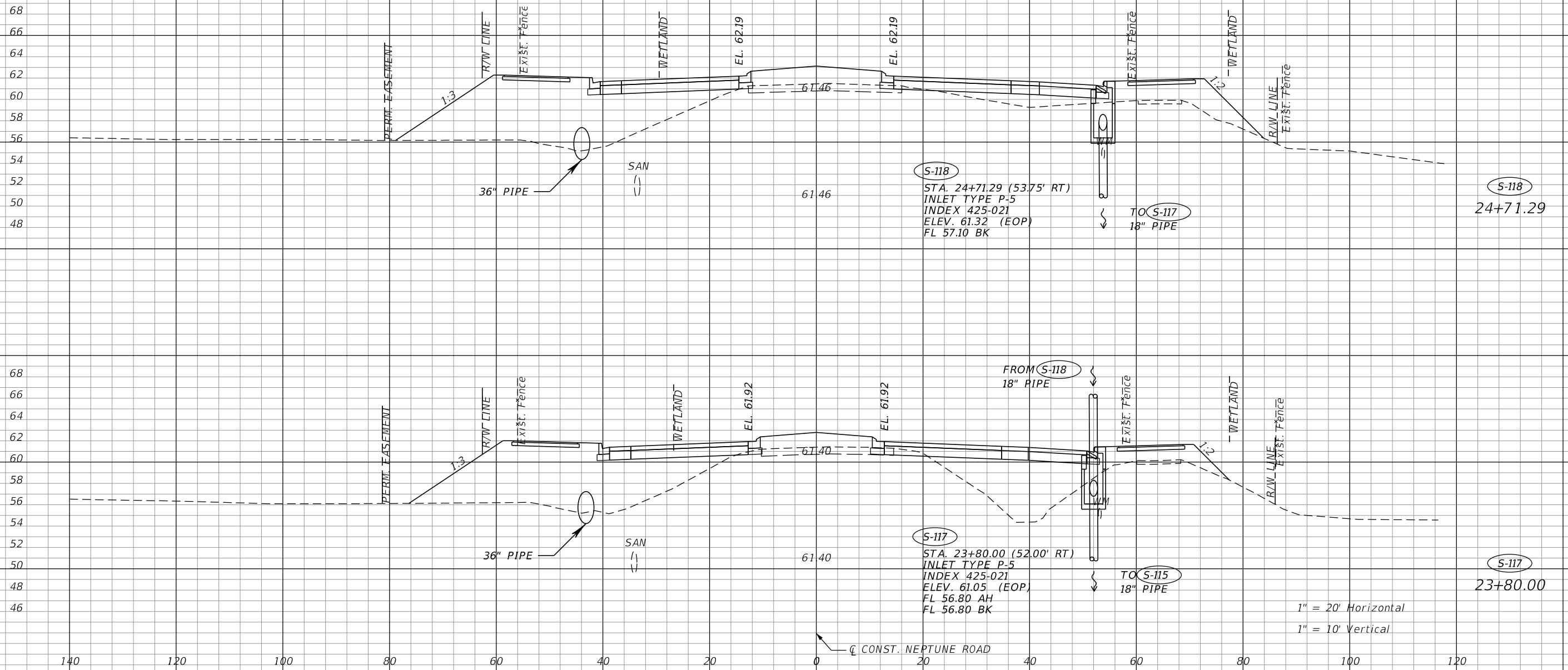
DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
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DRAINAGE STRUCTURES

SHEET NO.
69

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 ORLANDO, FL 32801

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1 COURTHOUSE SQUARE, SUITE 3100
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DRAINAGE STRUCTURES

SHEET NO.
70

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

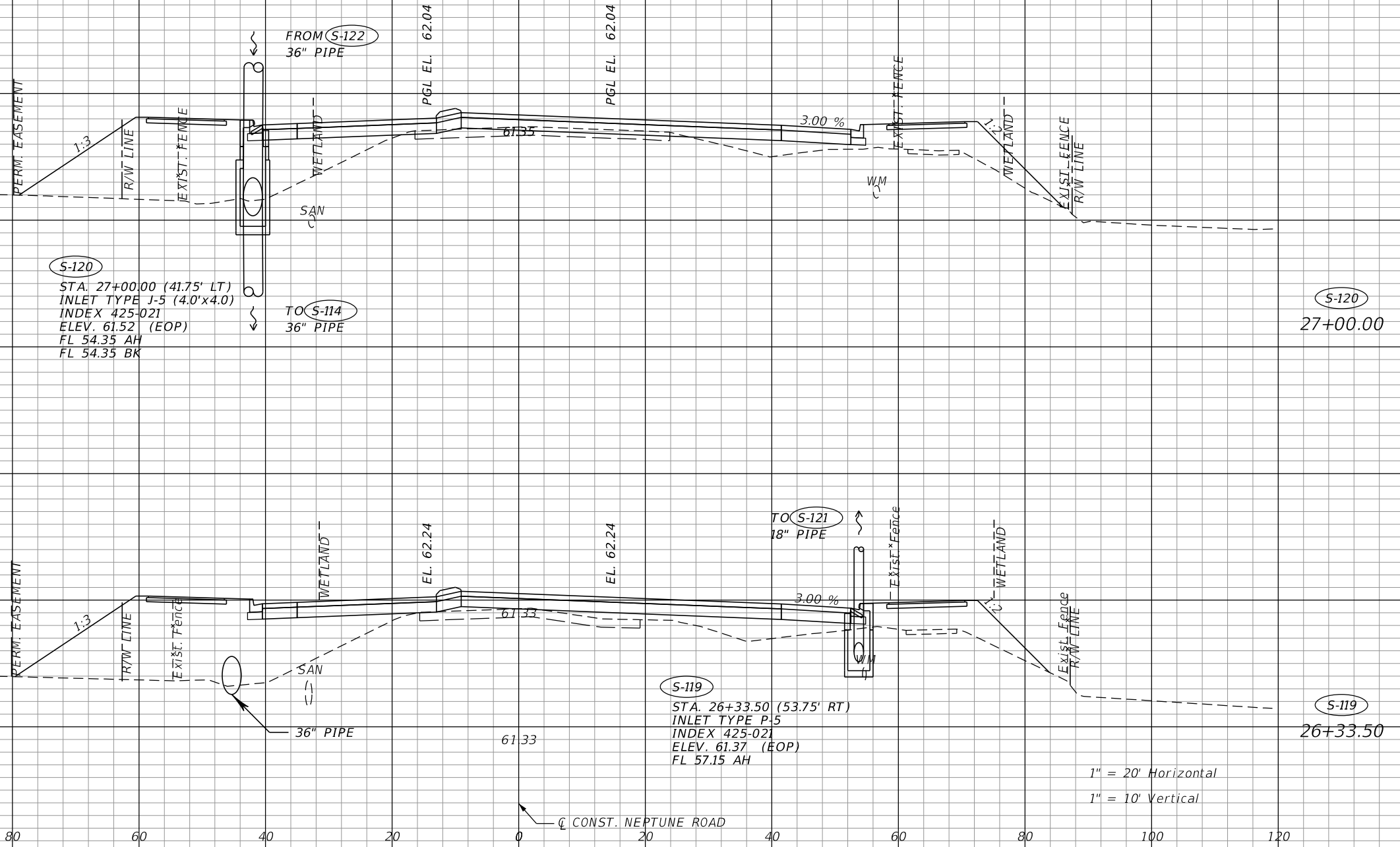
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140 120 100 80 60 40 20 0 20 40 60 80 100 120

CONST. NEPTUNE ROAD

CONST. NEPTUNE ROAD



S-120
STA. 27+00.00 (41.75' LT)
INLET TYPE J-5 (4.0'x4.0)
INDEX 425-021
ELEV. 61.52 (EOP)
FL 54.35 AH
FL 54.35 BK

S-119
STA. 26+33.50 (53.75' RT)
INLET TYPE P-5
INDEX 425-021
ELEV. 61.37 (EOP)
FL 57.15 AH

S-120
27+00.00

S-119
26+33.50

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

REVISIONS	
DATE	DESCRIPTION

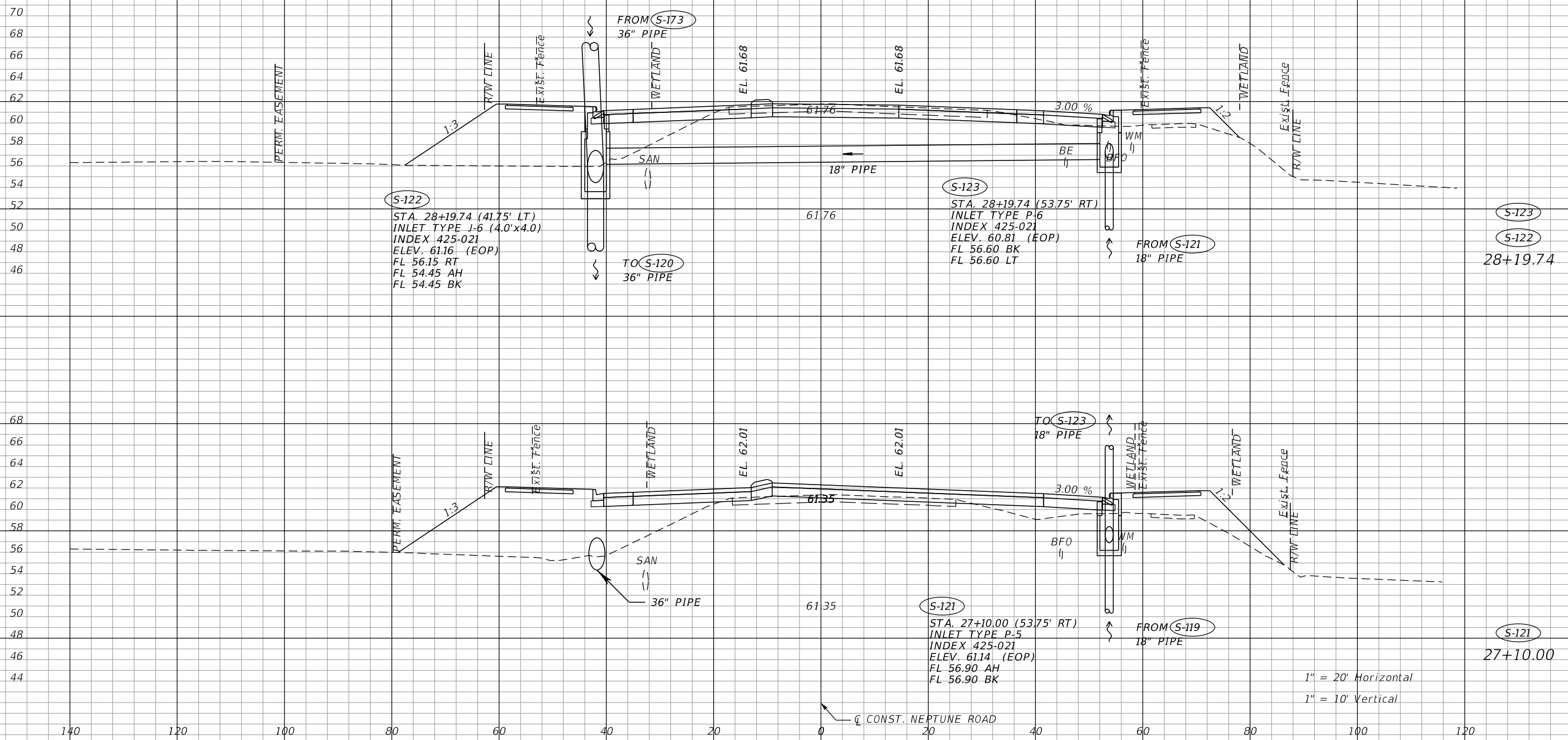
DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
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DRAINAGE STRUCTURES


SHEET NO.
71

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

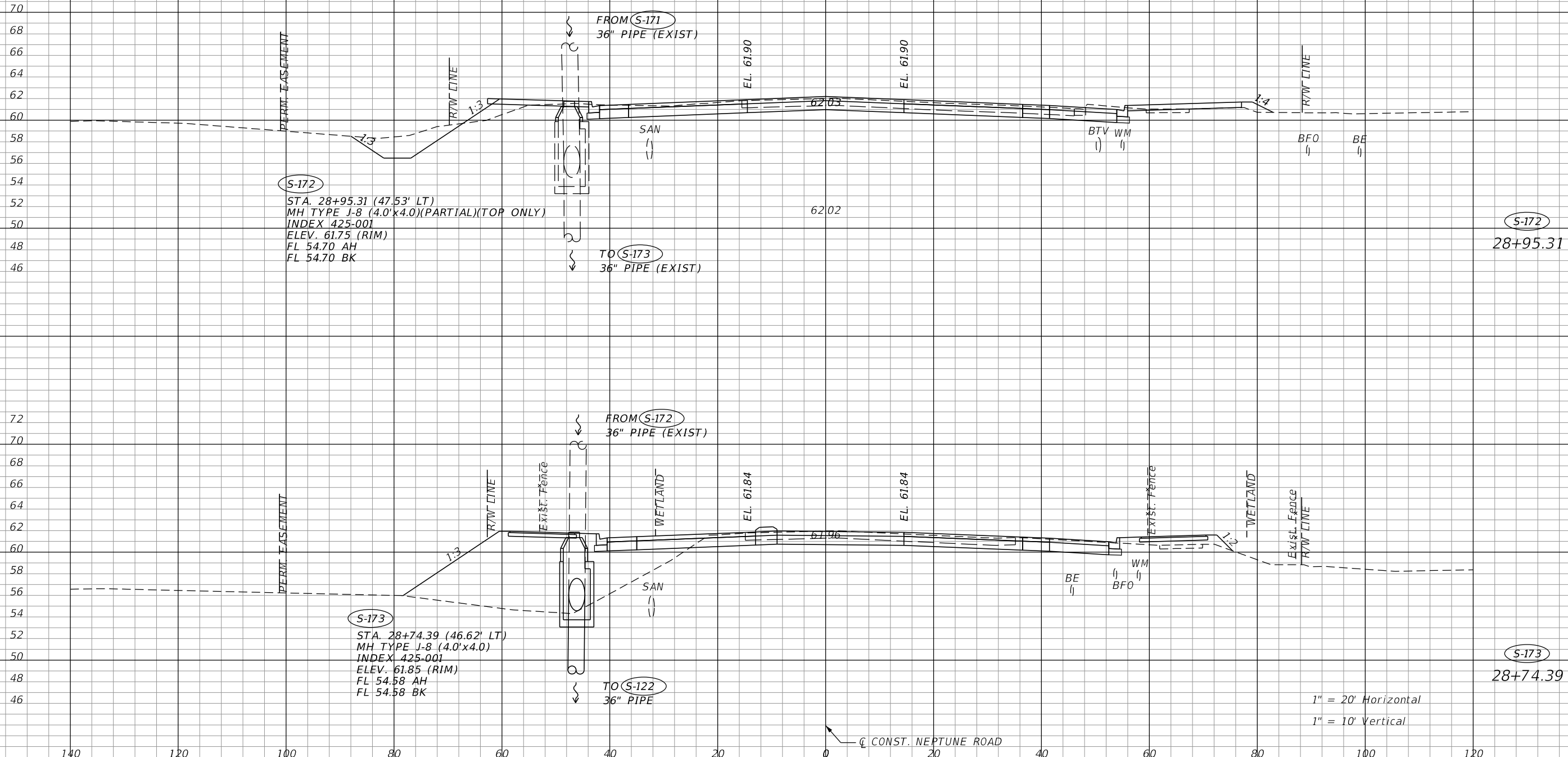
DAVID R. VERLANDER, P.E.
 P.E. LICENSE NUMBER 81420
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

 OSCEOLA COUNTY TRANSIT
 AND TRANSPORTATION
 1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE: (407) 742-0662 FAX: (407) 742-0600

DRAINAGE STRUCTURES

SHEET NO.
72

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
 P.E. LICENSE NUMBER 81420
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

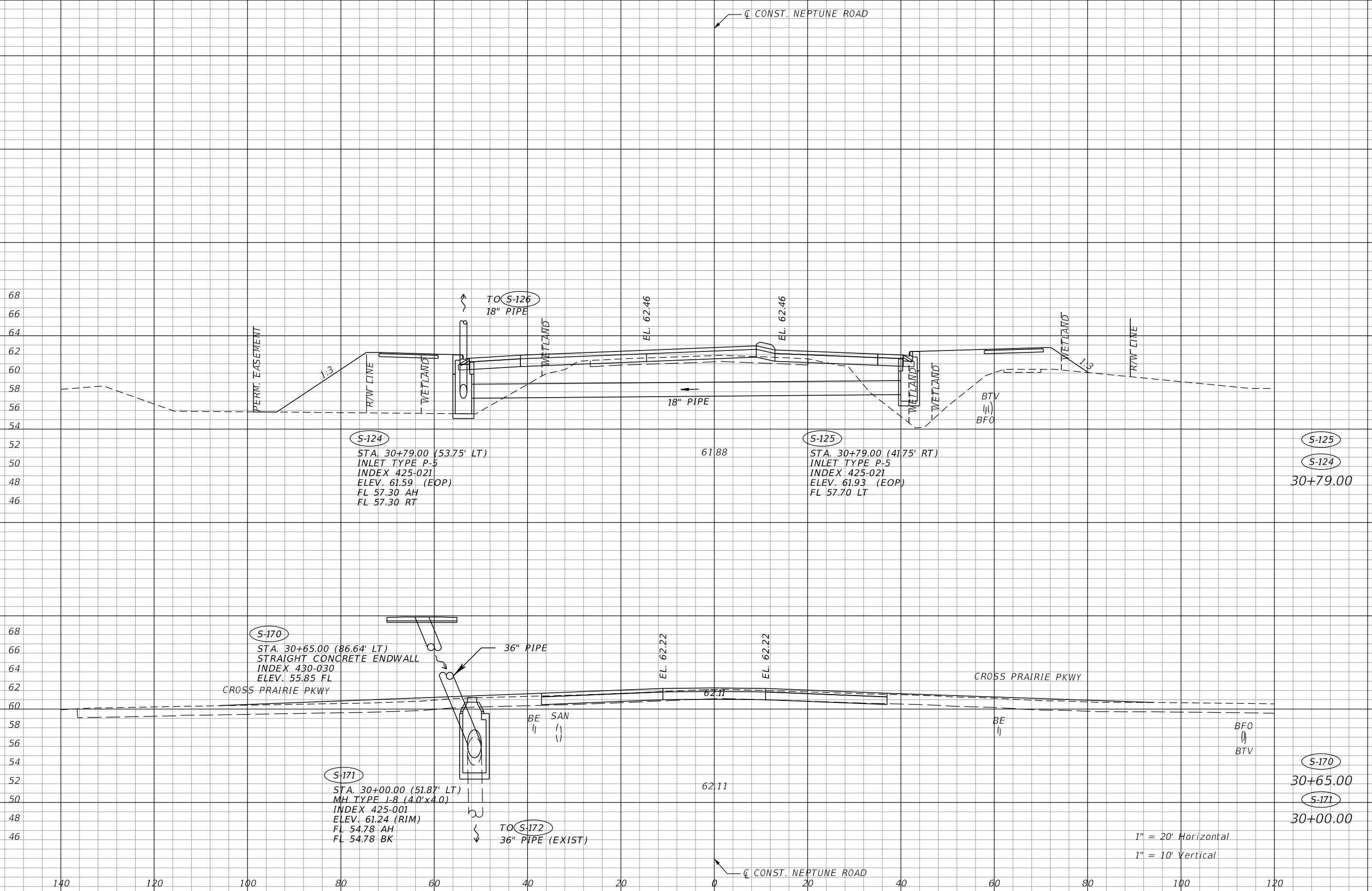


OSCEOLA COUNTY TRANSIT
 AND TRANSPORTATION
 1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
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DRAINAGE STRUCTURES

SHEET NO.
73

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



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140 120 100 80 60 40 20 0 20 40 60 80 100 120

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

REVISIONS	
DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

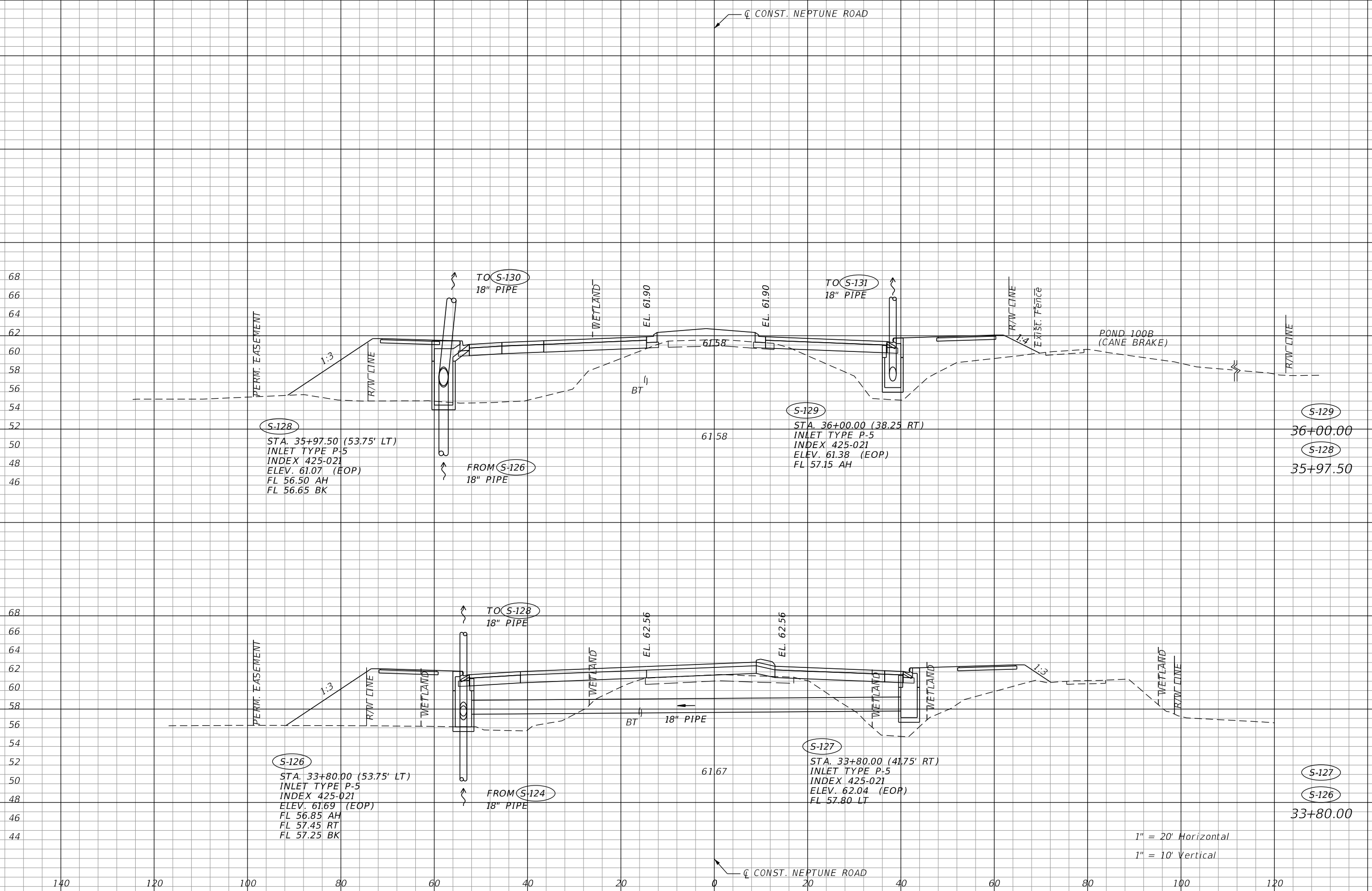
OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

DRAINAGE STRUCTURES

SHEET NO.
74

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
 P.E. LICENSE NUMBER 81420
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

OSCEOLA COUNTY TRANSIT
 AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
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DRAINAGE STRUCTURES

SHEET NO.
75

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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CONST. NEPTUNE ROAD

CONST. NEPTUNE ROAD

PERM. EASEMENT

1:3
R/W LINE

TO S-136
24" PIPE

FROM S-130
18" PIPE

EL. 61.90

EL. 61.90

BT

61.51

EXIST. FENCE

R/W LINE

POND 100B
(CANE BRAKE)

R/W LINE

S-132
STA. 38+00.00 (38.47' LT)
INLET TYPE P-5
INDEX 425-021
ELEV. 61.38 (EOP)
FL 55.80 AH
FL 56.20 BK

S-132
38+00.00

PERM. EASEMENT

1:3
R/W LINE

TO S-132
18" PIPE

FROM S-128
18" PIPE

EL. 61.60

EL. 61.60

BT

61.47

EXIST. FENCE

R/W LINE

POND 100B
(CANE BRAKE)

R/W LINE

S-130
STA. 37+00.00 (40.66' LT)
INLET TYPE P-6
INDEX 425-021
ELEV. 61.08 (EOP)
FL 56.35 AH
FL 56.35 RT
FL 56.35 BK

S-131
STA. 37+00.00 (38.25 RT)
INLET TYPE P-6
INDEX 425-021
ELEV. 61.08 (EOP)
FL 56.85 BK
FL 56.85 LT

FROM S-129
18" PIPE

S-131
S-130
37+00.00

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

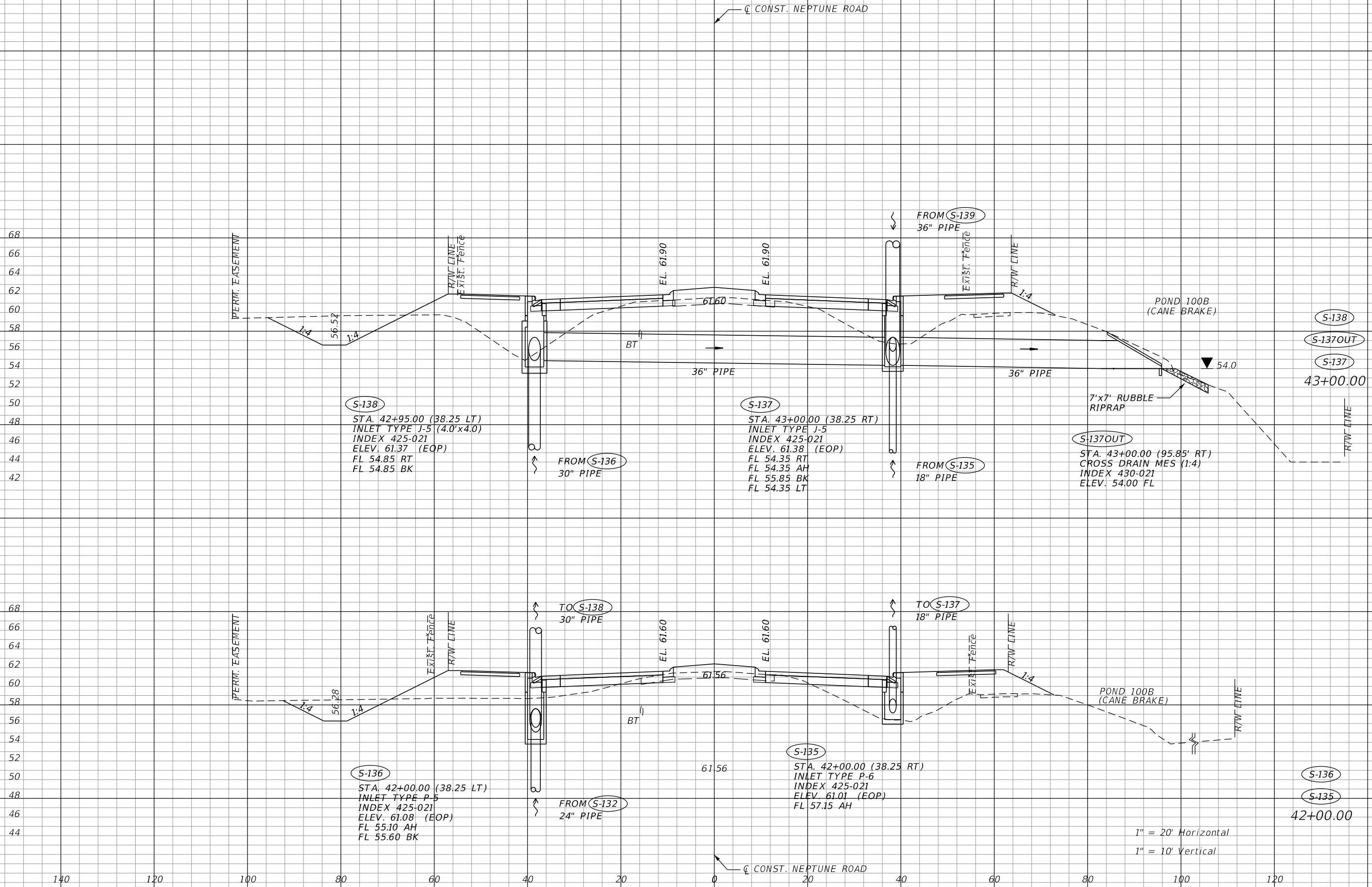


OSCEOLA COUNTY TRANSIT
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1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
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DRAINAGE STRUCTURES

SHEET NO.
76

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

OSCEOLA COUNTY TRANSIT
 AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE:(407) 742-0662 FAX:(407) 742-0600

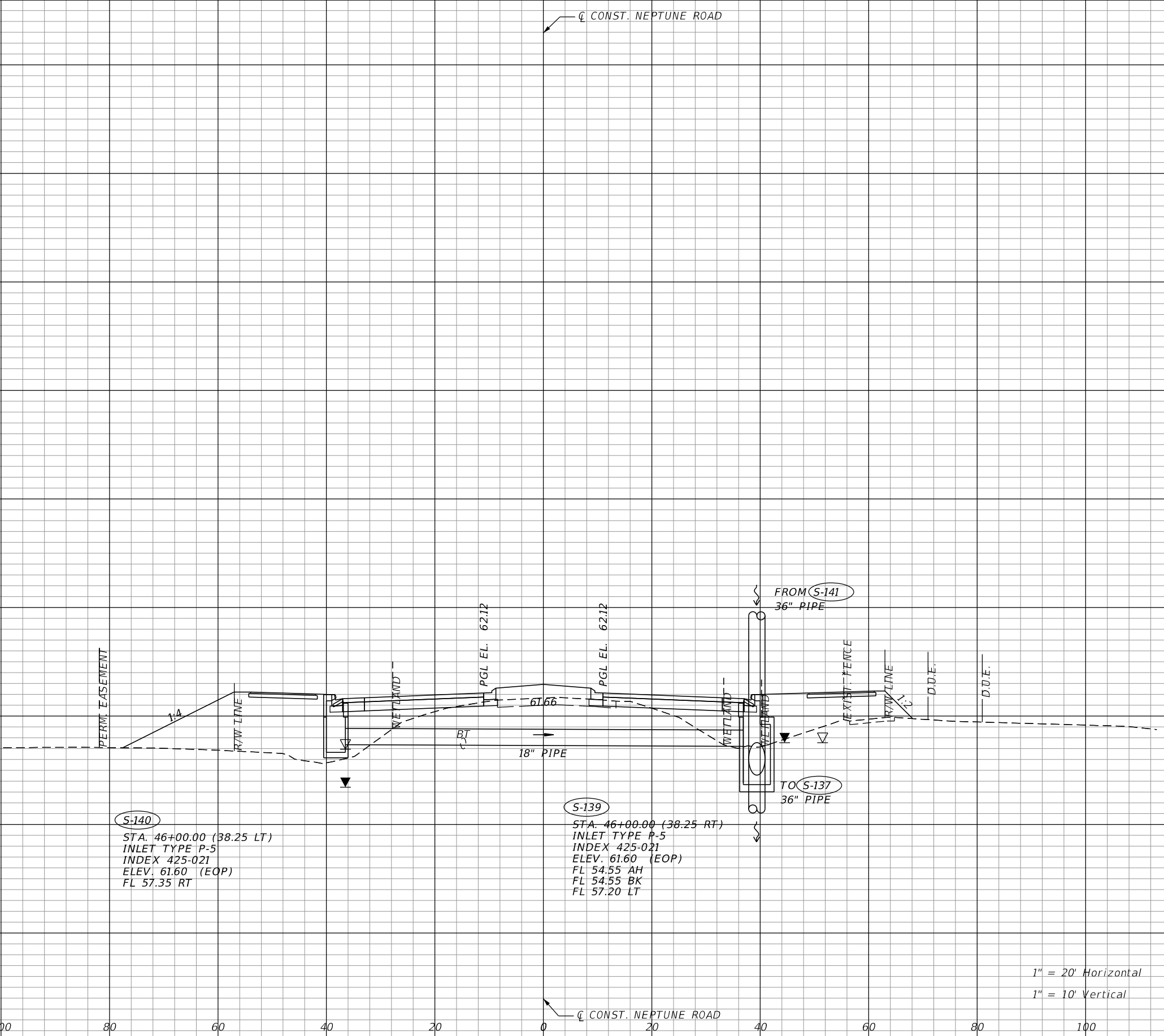
DRAINAGE STRUCTURES

SHEET NO.
77

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140 120 100 80 60 40 20 0 20 40 60 80 100 120



S-140
STA. 46+00.00 (38.25 LT)
INLET TYPE P-5
INDEX 425-021
ELEV. 61.60 (EOP)
FL 57.35 RT

S-139
STA. 46+00.00 (38.25 RT)
INLET TYPE P-5
INDEX 425-021
ELEV. 61.60 (EOP)
FL 54.55 AH
FL 54.55 BK
FL 57.20 LT

S-140
S-139
46+00.00

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

REVISIONS	
DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



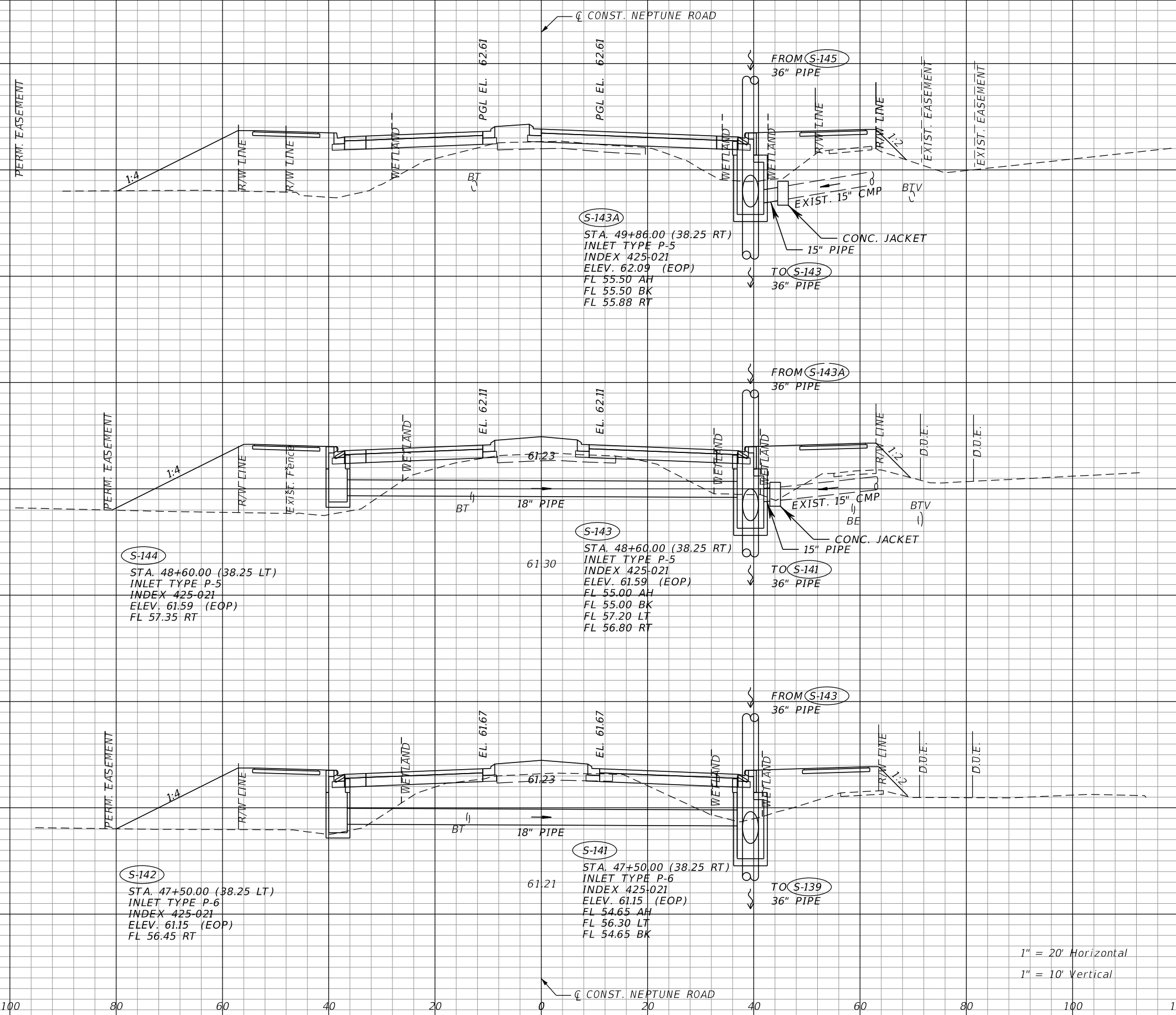
OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

DRAINAGE STRUCTURES

SHEET NO.
78

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140 120 100 80 60 40 20 0 20 40 60 80 100 120

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

REVISIONS	
DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

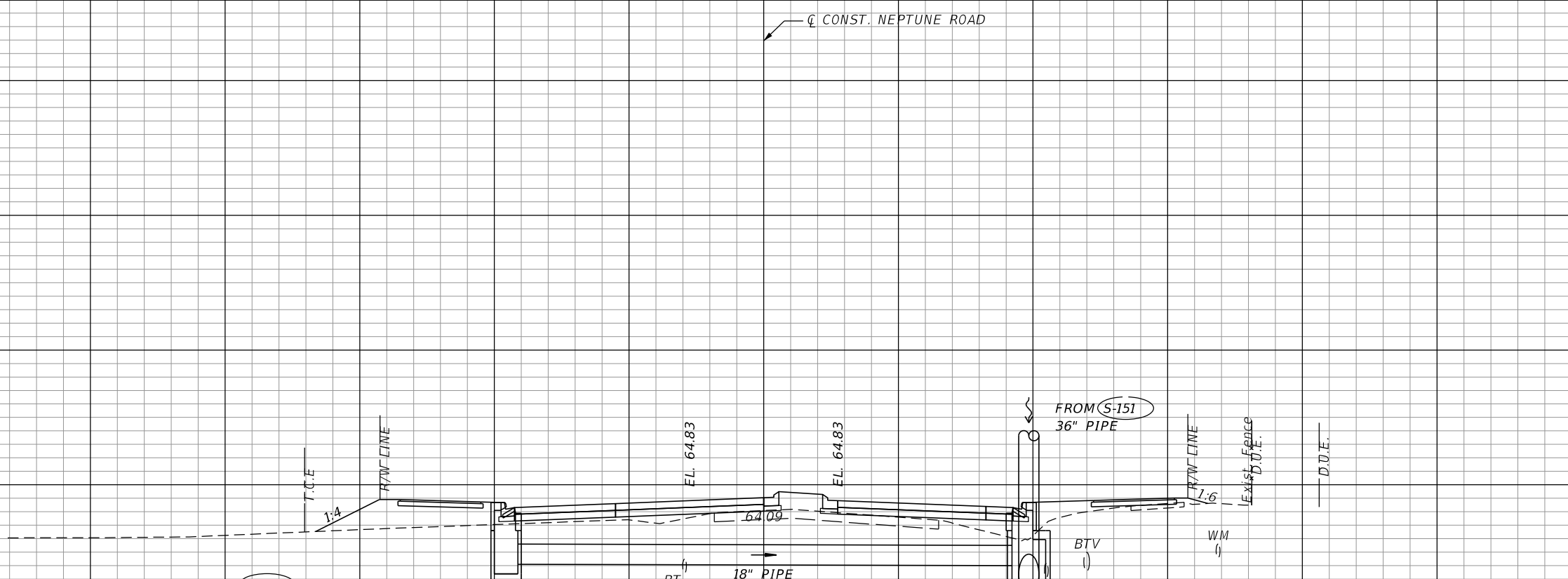
DRAINAGE STRUCTURES

SHEET NO.
79

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

S-149
DELETED

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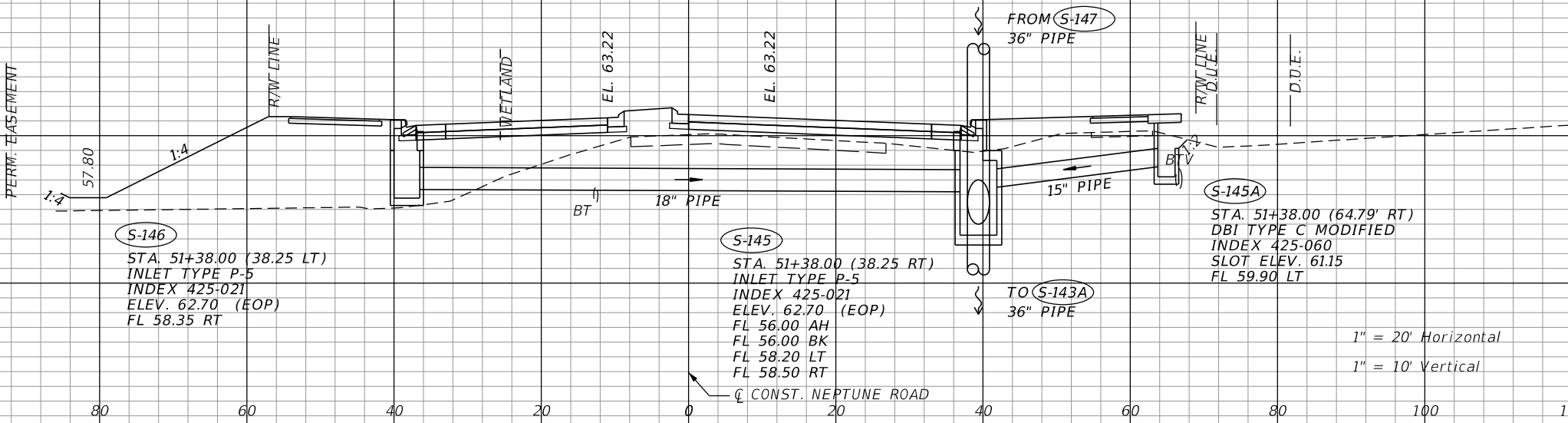


S-148
STA. 53+98.00 (38.25 LT)
INLET TYPE P-5
INDEX 425-021
ELEV. 64.31 (EOP)
FL 60.10 RT

S-147
STA. 53+98.00 (38.25 RT)
INLET TYPE P-5
INDEX 425-021
ELEV. 64.31 (EOP)
FL 57.85 AH
FL 57.85 BK
FL 60.00 LT

S-148
S-147
53+98.00

72
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S-146
STA. 51+38.00 (38.25 LT)
INLET TYPE P-5
INDEX 425-021
ELEV. 62.70 (EOP)
FL 58.35 RT

S-145
STA. 51+38.00 (38.25 RT)
INLET TYPE P-5
INDEX 425-021
ELEV. 62.70 (EOP)
FL 56.00 AH
FL 56.00 BK
FL 58.20 LT
FL 58.50 RT

S-145A
STA. 51+38.00 (64.79' RT)
DBI TYPE C MODIFIED
INDEX 425-060
SLOT ELEV. 61.15
FL 59.90 LT

S-146
S-145A
S-145
51+38.00

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

140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS	
DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

DRAINAGE STRUCTURES

SHEET NO.
80

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

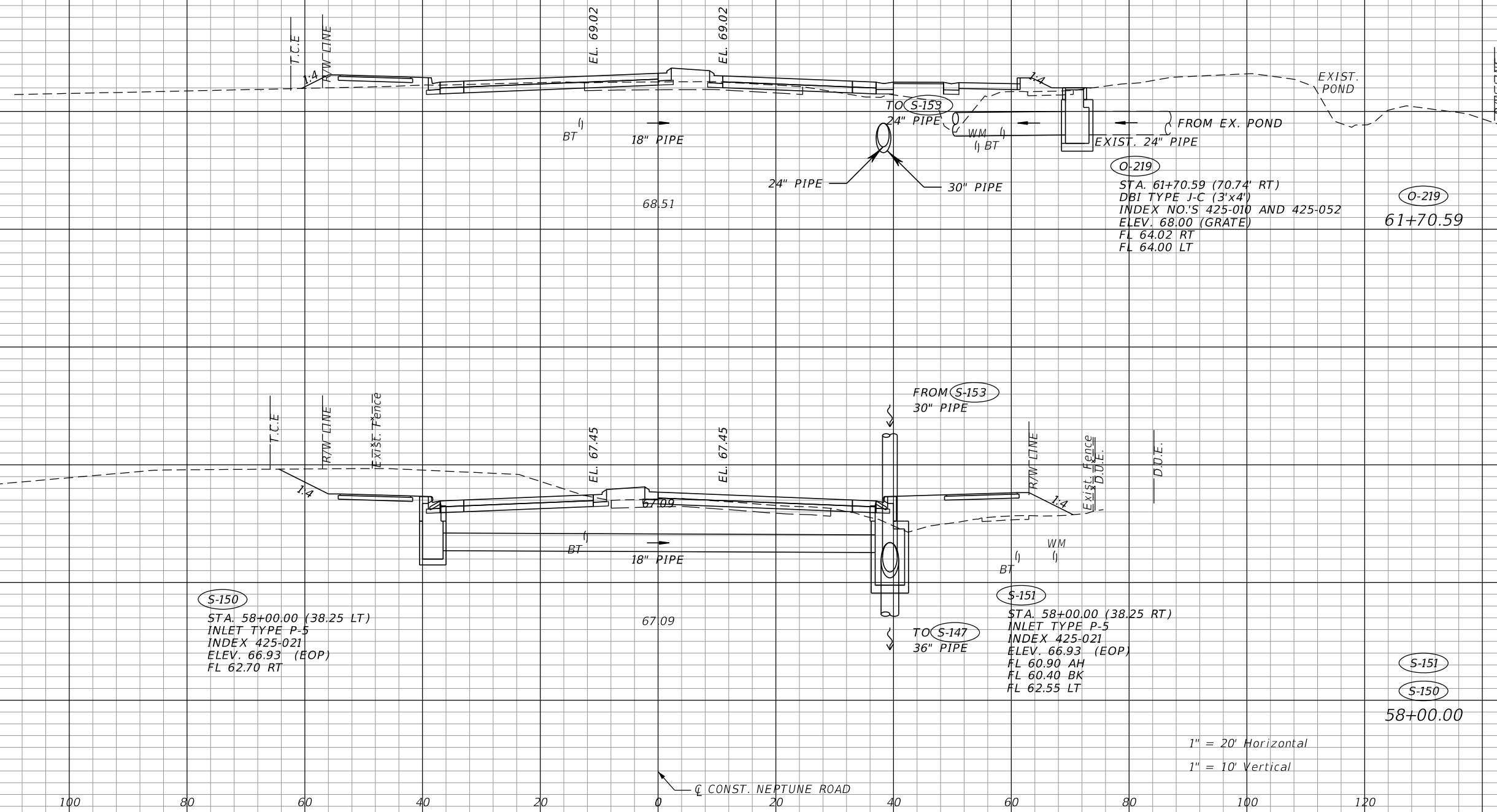
74
72
70
68
66
64
62
60
58
56
54

74
72
70
68
66
64
62
60
58
56
54
52
50
48
46

140 120 100 80 60 40 20 0 20 40 60 80 100 120

CONST. NEPTUNE ROAD

CONST. NEPTUNE ROAD



O-219
STA. 61+70.59 (70.74' RT)
DBI TYPE J-C (3'x4')
INDEX NO.'S 425-010 AND 425-052
ELEV. 68.00 (GRATE)
FL 64.02 RT
FL 64.00 LT

S-150
STA. 58+00.00 (38.25 LT)
INLET TYPE P-5
INDEX 425-021
ELEV. 66.93 (EOP)
FL 62.70 RT

S-151
STA. 58+00.00 (38.25 RT)
INLET TYPE P-5
INDEX 425-021
ELEV. 66.93 (EOP)
FL 60.90 AH
FL 60.40 BK
FL 62.55 LT

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

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
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ORLANDO, FL 32801



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DRAINAGE STRUCTURES

SHEET NO.
81

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

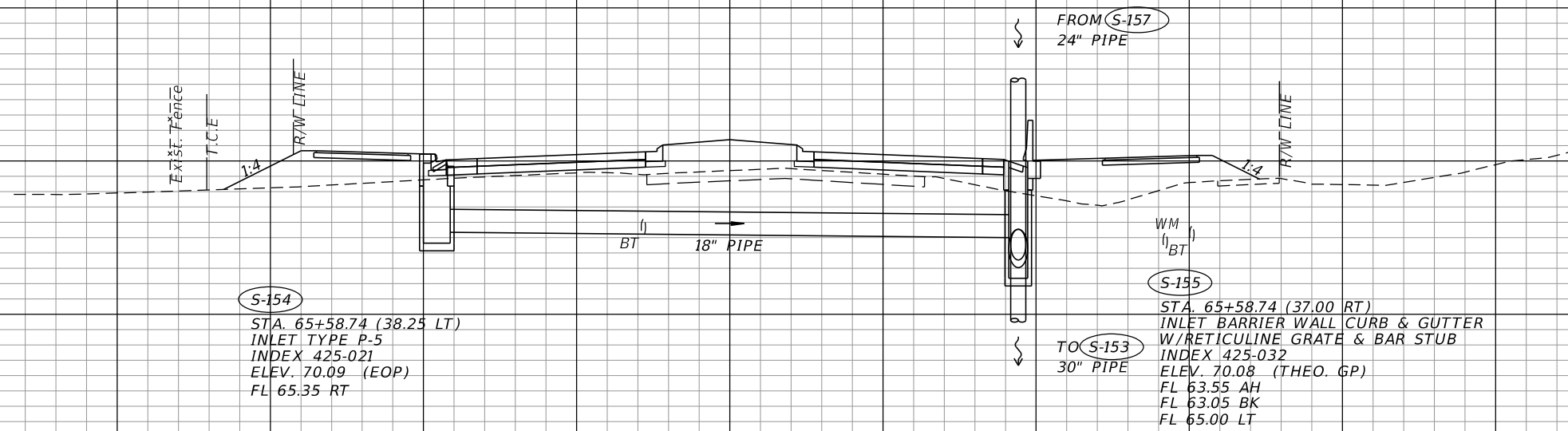
78
76
74
72
70
68
66
64
62
60
58
56
54

76
74
72
70
68
66
64
62
60
58
56
54

140 120 100 80 60 40 20 0 20 40 60 80 100 120

CONST. NEPTUNE ROAD

CONST. NEPTUNE ROAD



S-154
STA. 65+58.74 (38.25 LT)
INLET TYPE P-5
INDEX 425-021
ELEV. 70.09 (EOP)
FL 65.35 RT

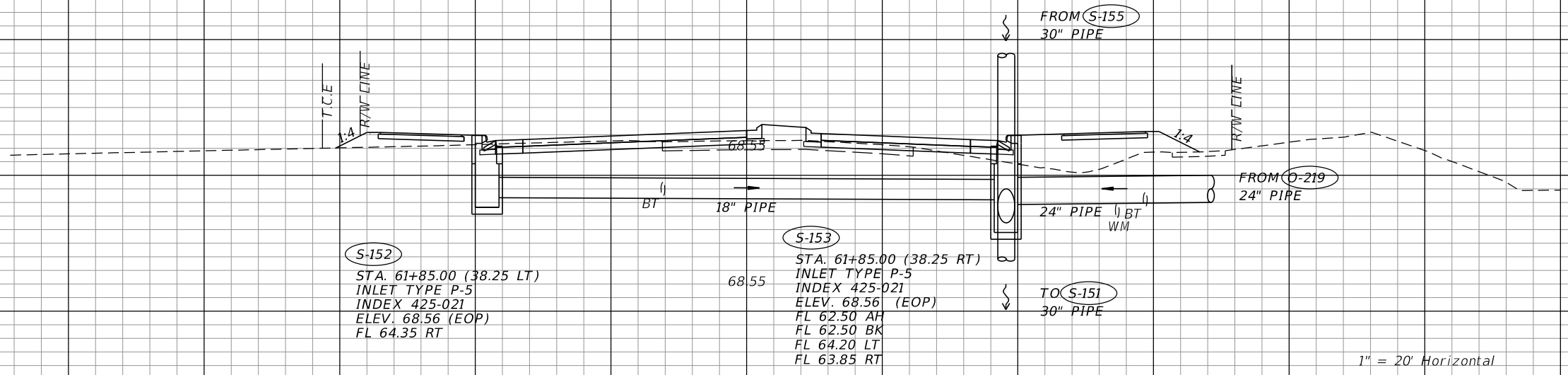
FROM **S-157**
24" PIPE

WM
BT
S-155

TO **S-153**
30" PIPE

STA. 65+58.74 (37.00 RT)
INLET BARRIER WALL CURB & GUTTER
W/RETICULINE GRATE & BAR STUB
INDEX 425-032
ELEV. 70.08 (THEO. GP)
FL 63.55 AH
FL 63.05 BK
FL 65.00 LT

S-155
S-154
65+58.74



S-152
STA. 61+85.00 (38.25 LT)
INLET TYPE P-5
INDEX 425-021
ELEV. 68.56 (EOP)
FL 64.35 RT

S-153

68.55
STA. 61+85.00 (38.25 RT)
INLET TYPE P-5
INDEX 425-021
ELEV. 68.56 (EOP)
FL 62.50 AH
FL 62.50 BK
FL 64.20 LT
FL 63.85 RT

FROM **S-155**
30" PIPE

FROM **O-219**
24" PIPE

TO **S-151**
30" PIPE

S-153
S-152
61+85.00

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

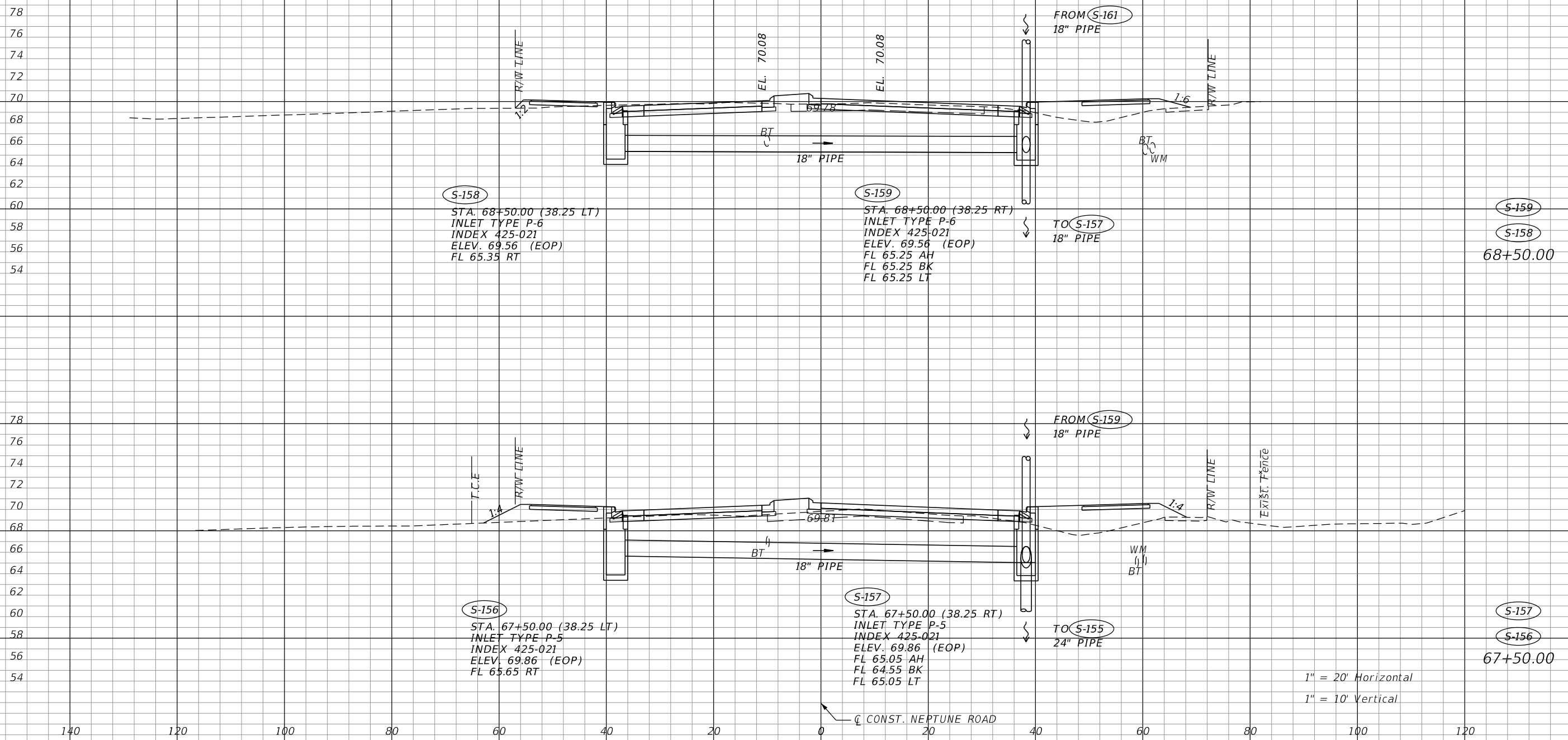


OSCEOLA COUNTY TRANSIT
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1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

DRAINAGE STRUCTURES

SHEET NO.
82


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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
 P.E. LICENSE NUMBER 81420
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

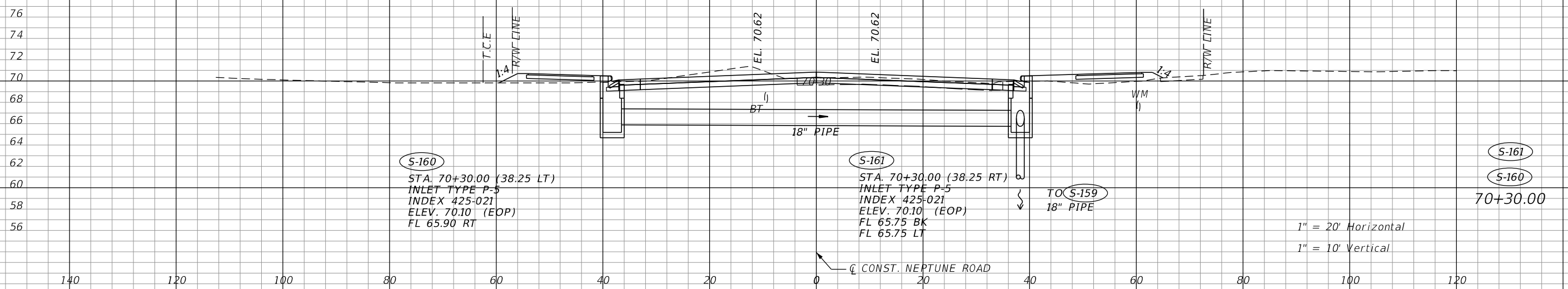
 OSCEOLA COUNTY TRANSIT
 AND TRANSPORTATION
 1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE:(407) 742-0662 FAX:(407) 742-0600

DRAINAGE STRUCTURES

SHEET NO.
83

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CL CONST. NEPTUNE ROAD



S-160
 STA. 70+30.00 (38.25 LT)
 INLET TYPE P-5
 INDEX 425-021
 ELEV. 70.10 (EOP)
 FL 65.90 RT

S-161
 STA. 70+30.00 (38.25 RT)
 INLET TYPE P-5
 INDEX 425-021
 ELEV. 70.10 (EOP)
 FL 65.75 BK
 FL 65.75 LT

TO S-159
 18" PIPE

S-161
 S-160
 70+30.00

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

CL CONST. NEPTUNE ROAD

REVISIONS	
DATE	DESCRIPTION

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 GAI CONSULTANTS, INC.
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 ORLANDO, FL 32801



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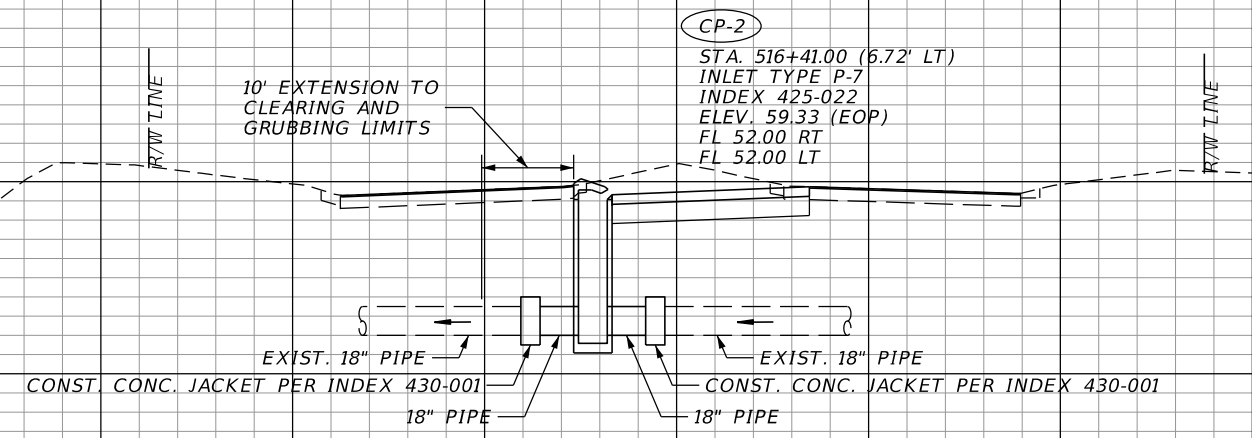
DRAINAGE STRUCTURES

SHEET NO.
84

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Ⓡ SURVEY CROSS PRAIRIE PKWY

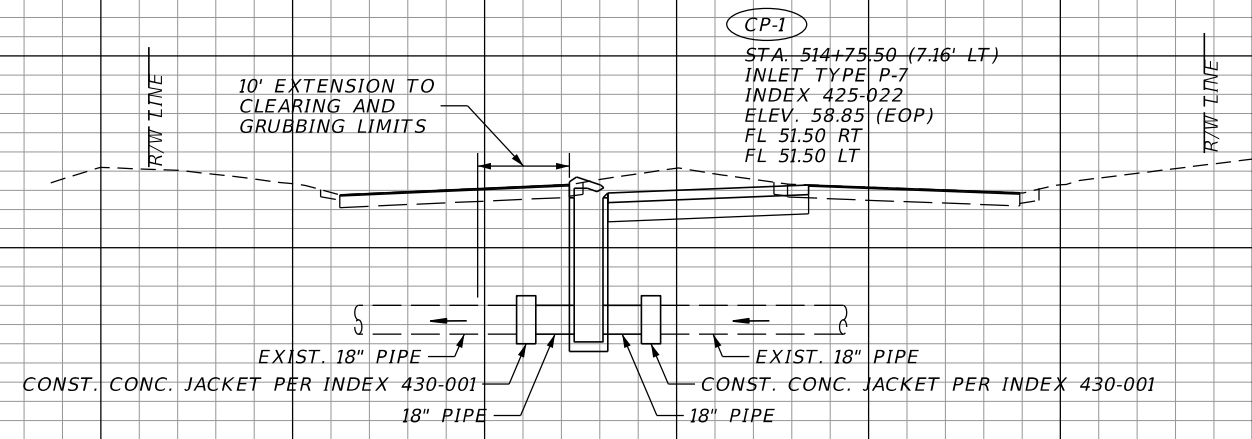
72
70
68
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62
60
58
56
54
52
50



CP-2
STA. 516+41.00 (6.72' LT)
INLET TYPE P-7
INDEX 425-022
ELEV. 59.33 (EOP)
FL 52.00 RT
FL 52.00 LT

CP-2
516+41.00

72
70
68
66
64
62
60
58
56
54
52



CP-1
STA. 514+75.50 (7.16' LT)
INLET TYPE P-7
INDEX 425-022
ELEV. 58.85 (EOP)
FL 51.50 RT
FL 51.50 LT

CP-1
514+75.50

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

140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS	
DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



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KISSIMMEE, FLORIDA 34741-5488
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DRAINAGE STRUCTURES

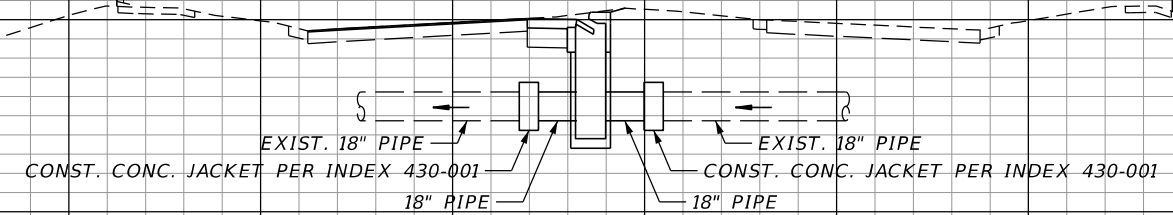
SHEET NO.
85

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Ⓡ SURVEY CROSS PRAIRIE PKWY

74
72
70
68
66
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62
60
58
56
54
52
50

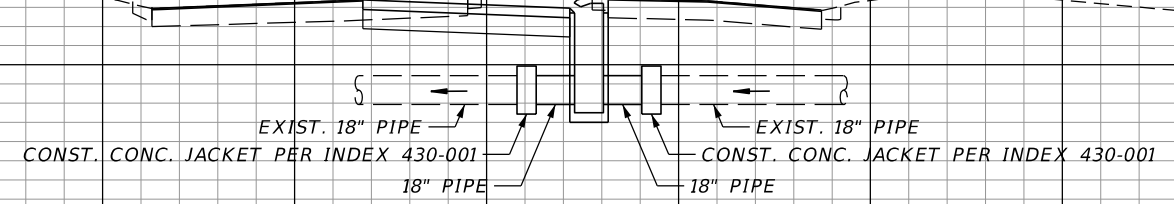
CP-4
STA. 526+46.00 (5.78' LT)
INLET TYPE P-6
INDEX 425-021
ELEV. 61.02 (EOP)
FL 55.74 RT
FL 55.74 LT



CP-4
526+46.00

72
70
68
66
64
62
60
58
56
54
52
50

CP-3
STA. 520+84.50 (8.68' RT)
INLET TYPE P-7
INDEX 425-022
ELEV. 59.95 (EOP)
FL 54.93 RT
FL 54.93 LT



CP-3
520+84.50

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

140 120 100 80 60 40 20 0 20 40 60 80 100 120

Ⓡ SURVEY CROSS PRAIRIE PKWY

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

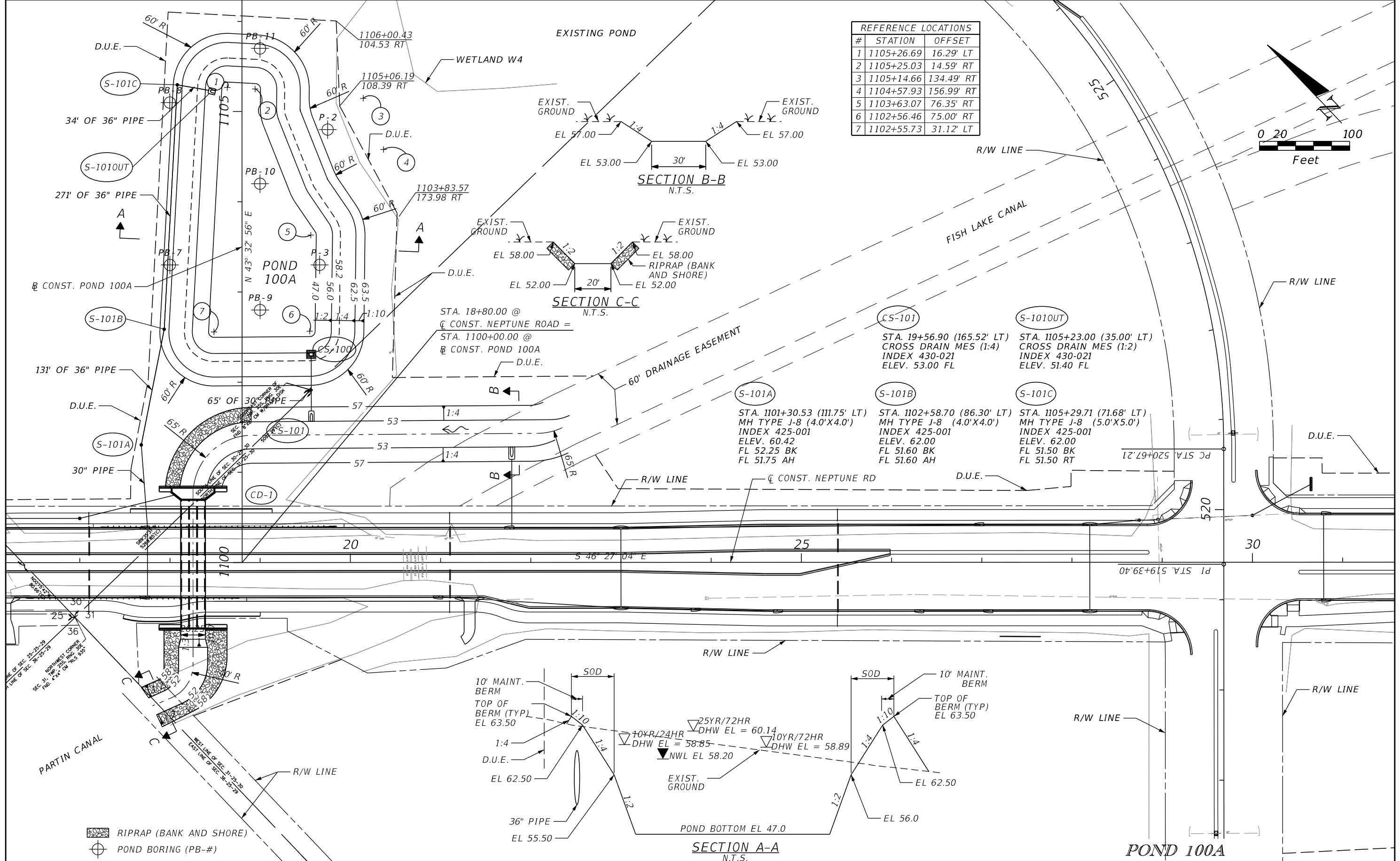


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DRAINAGE STRUCTURES

SHEET NO.
86

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

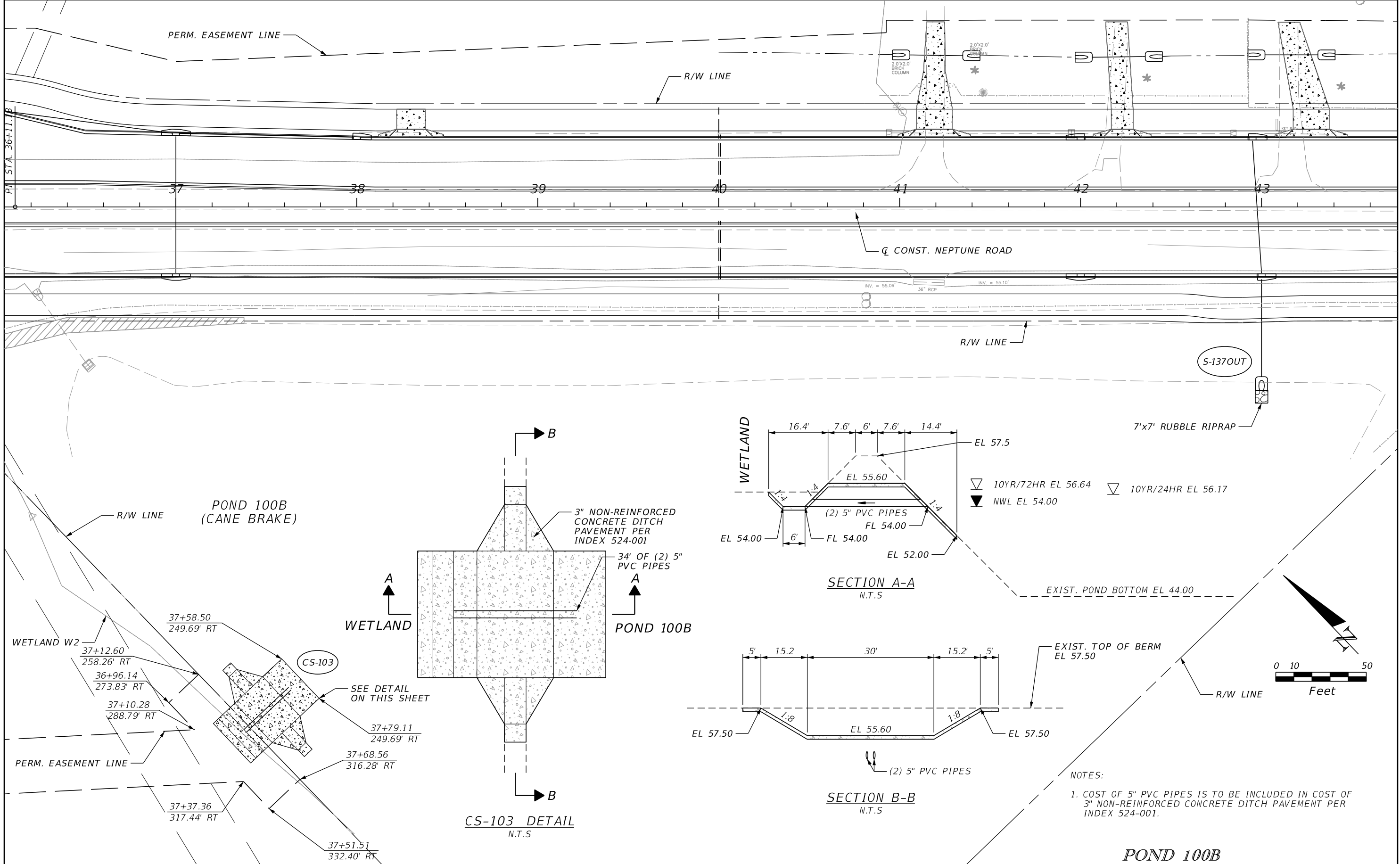
DAVID R. VERLANDER, P.E.
 P.E. LICENSE NUMBER 81420
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
 1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE: (407) 742-0662 FAX: (407) 742-0600

POND DETAILS

SHEET NO.
87

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NOTES:
 1. COST OF 5" PVC PIPES IS TO BE INCLUDED IN COST OF 3" NON-REINFORCED CONCRETE DITCH PAVEMENT PER INDEX 524-001.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
 P.E. LICENSE NUMBER 81420
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801



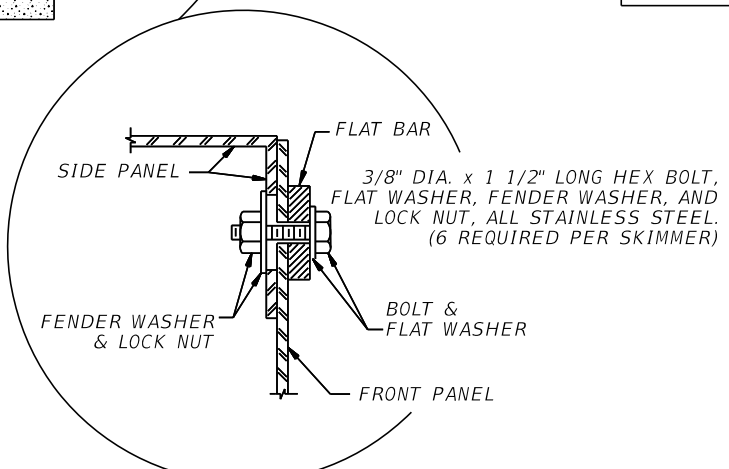
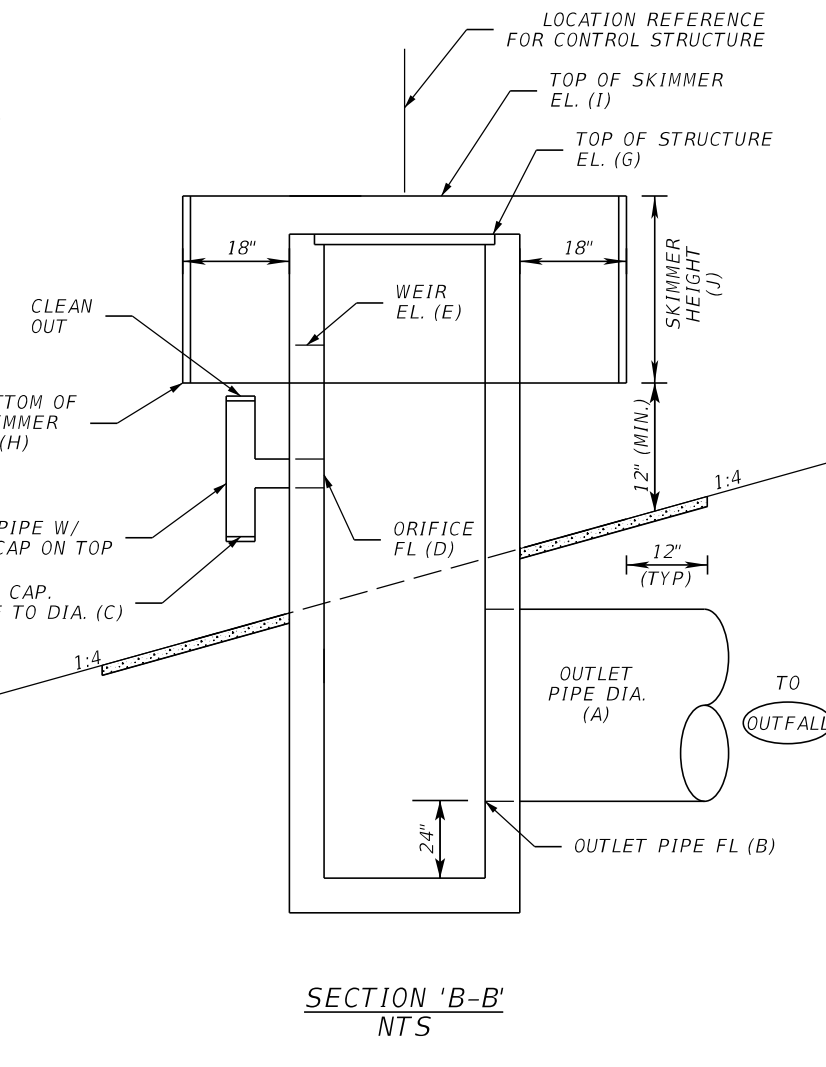
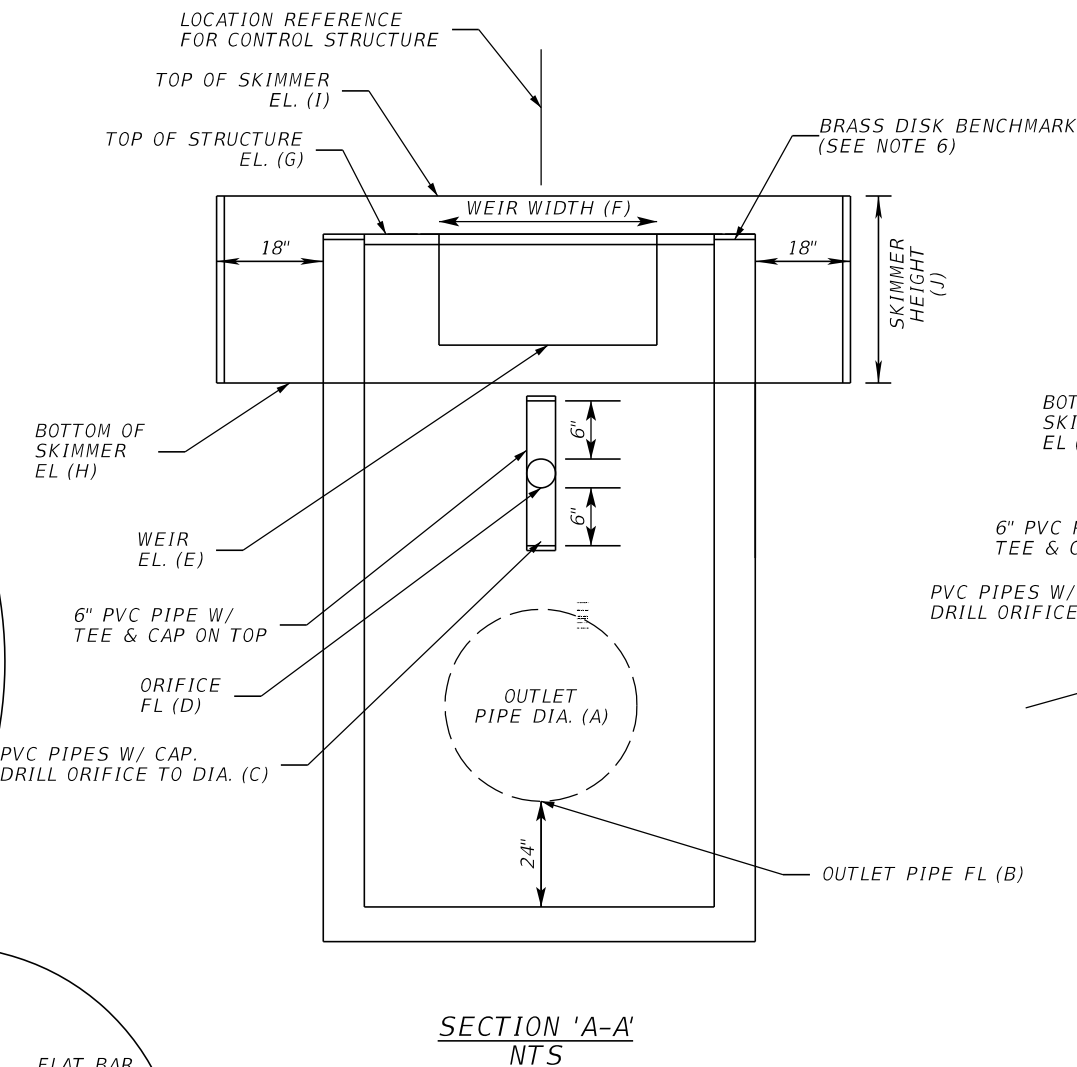
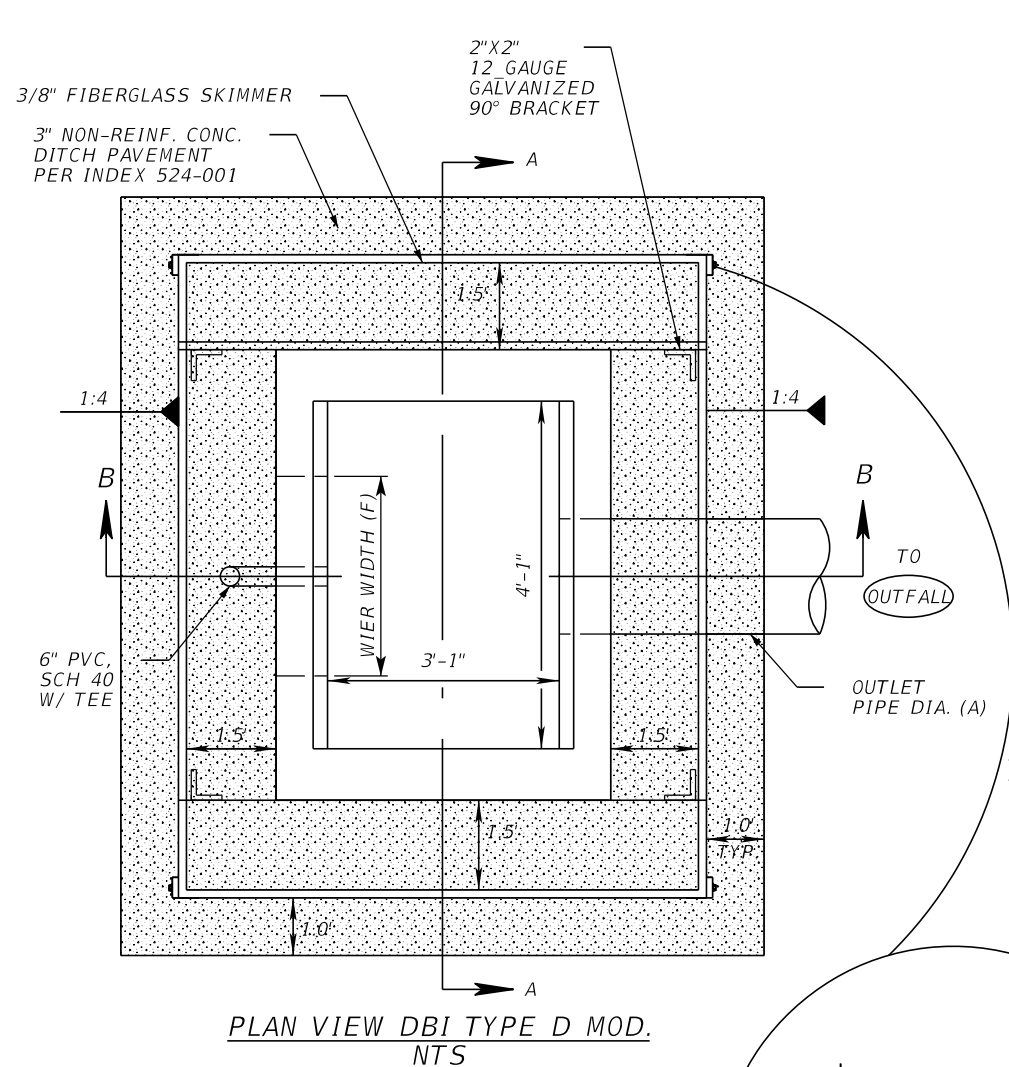
OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
 1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE:(407) 742-0662 FAX:(407) 742-0600

POND DETAILS

SHEET NO.
88

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

POND NO.	STRUCTURE NO.	LOCATION		DBI TYPE	OUTLET PIPE DIA (A)	OUTLET PIPE FL (B)	ORIFICE DIA. (C)	ORIFICE FL (D)	WEIR EL (E)	WEIR WIDTH (F)	TOP OF STRUCTURE EL (G)	BOTTOM OF SKIMMER EL (H)	TOP OF SKIMMER EL (I)	SKIMMER HEIGHT (J)
		STATION	OFFSET											
100A	CS-100	19+57	-230.80	D (MOD)	30"	53.10	3.0"	58.2	59.70	(2) 3.0'	61.00	59.20	61.50	2.30'



- NOTES:
- ALL STRUCTURES ARE TO BE CONSTRUCTED PER INDEX 425-052. COST OF STRUCTURES INCLUDES COST OF 6" PVC PIPE, TEE AND CAPS.
 - SKIMMER ATTACHMENT NOTE: SKIMMER TO BE ATTACHED TO STRUCTURE USING 3/8" STAINLESS STEEL STUD TYPE EXPANSION ANCHOR WITH NUT AND WASHER. EMBEDDED DEPTH TO BE 2-1/2". ANCHORS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS OR AS DIRECTED BY THE ENGINEER.
 - MOUNTING STRAPS SHALL BE 1/4" THICK BENT STAINLESS STEEL PLATES WITH DRILLED HOLES.
 - FASTEN MOUNTING STRAP IN WITH 1/2" X 4" EXPAN. STAINLESS STEEL ANCHOR BOLT.
 - COST OF SKIMMER INCLUDES ALL NECESSARY HARDWARE.
 - CONTRACTOR SHALL ACQUIRE BRASS DISK BENCHMARK FROM THE COUNTY. BRASS DISK SHALL BE PERMANENTLY SET IN THE TOP OF THE CONTROL STRUCTURE USING NON-SHRINK GROUT. ELEVATION SHALL BE CERTIFIED BY A FLORIDA REGISTERED PROFESSIONAL SURVEYOR.

POND CONTROL STRUCTURES

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

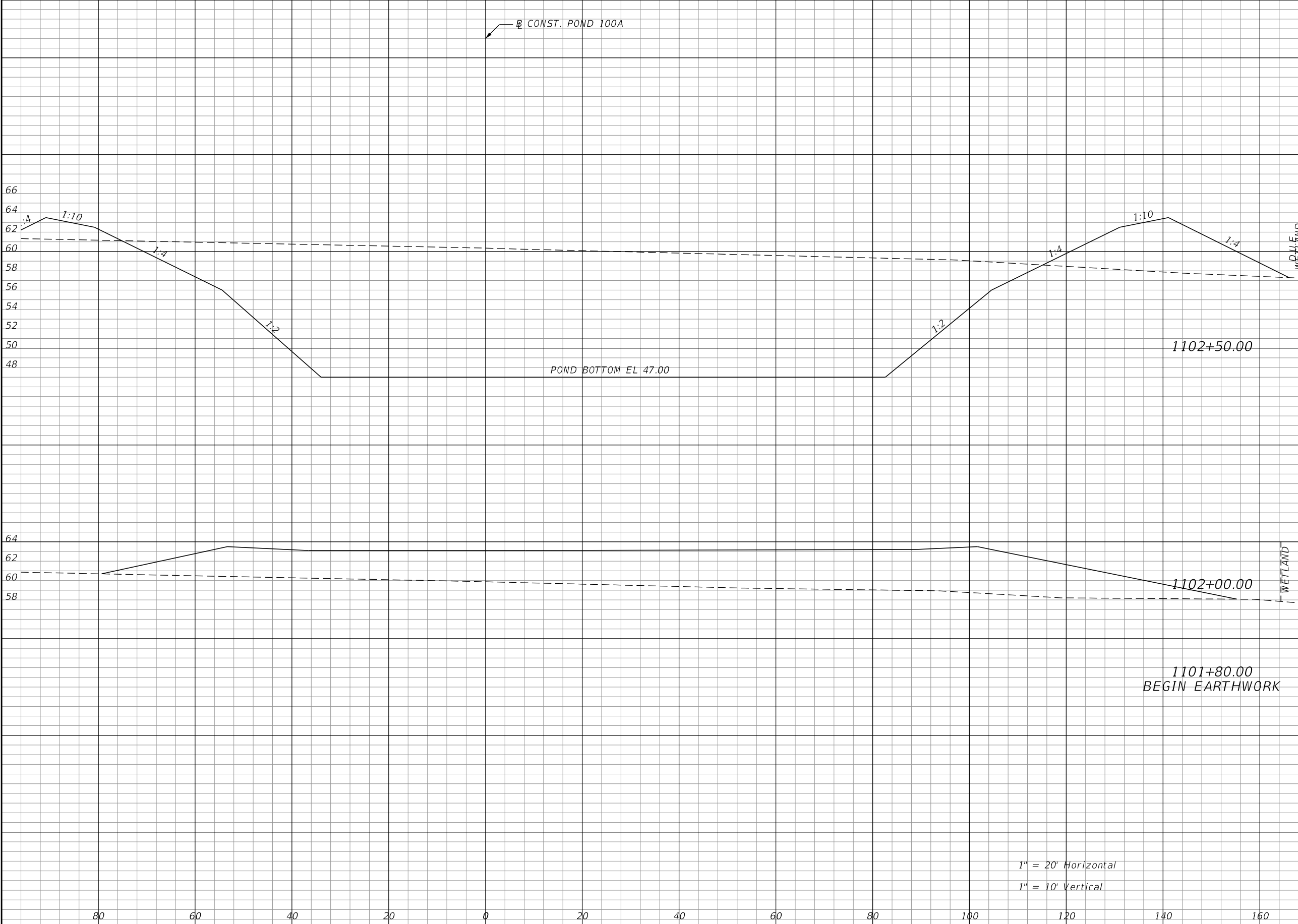
DAVID R. VERLANDER, P.E.
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GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

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KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

DRAINAGE DETAILS

SHEET NO.
89

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Regular		Exc.		Embankment	
A	V	A	V	A	V
1924			1798	187	850
0			0	731	271
0			0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

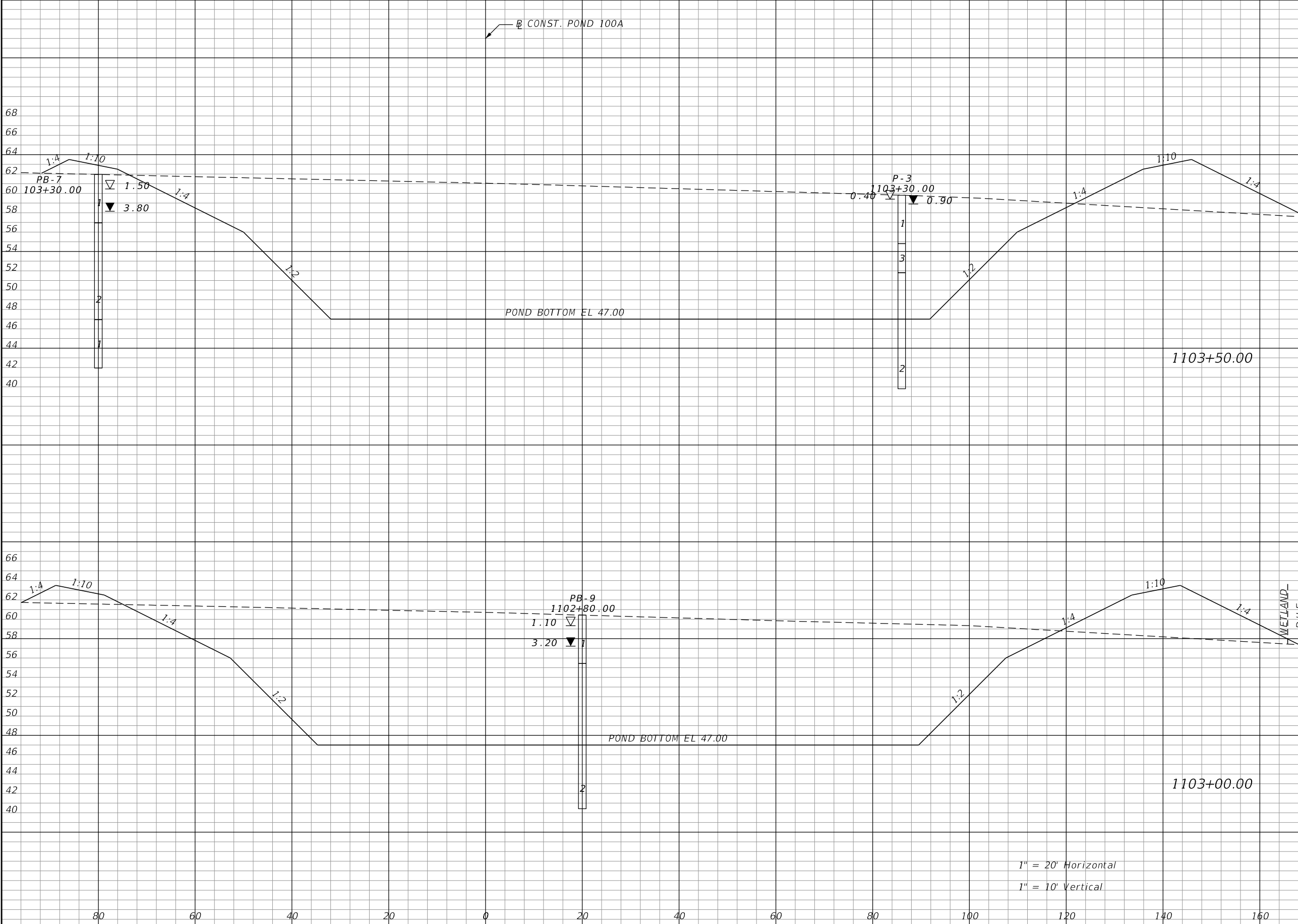
DAVID R. VERLANDER, P.E.
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GAI CONSULTANTS, INC.
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ORLANDO, FL 32801

 OSCEOLA COUNTY TRANSIT
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POND 100A
CROSS SECTIONS

SHEET
NO.
90

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Regular		Exc.		Embankment	
A	V	A	V	A	V
2095	3832	153	296		
2044	3691	167	328		

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

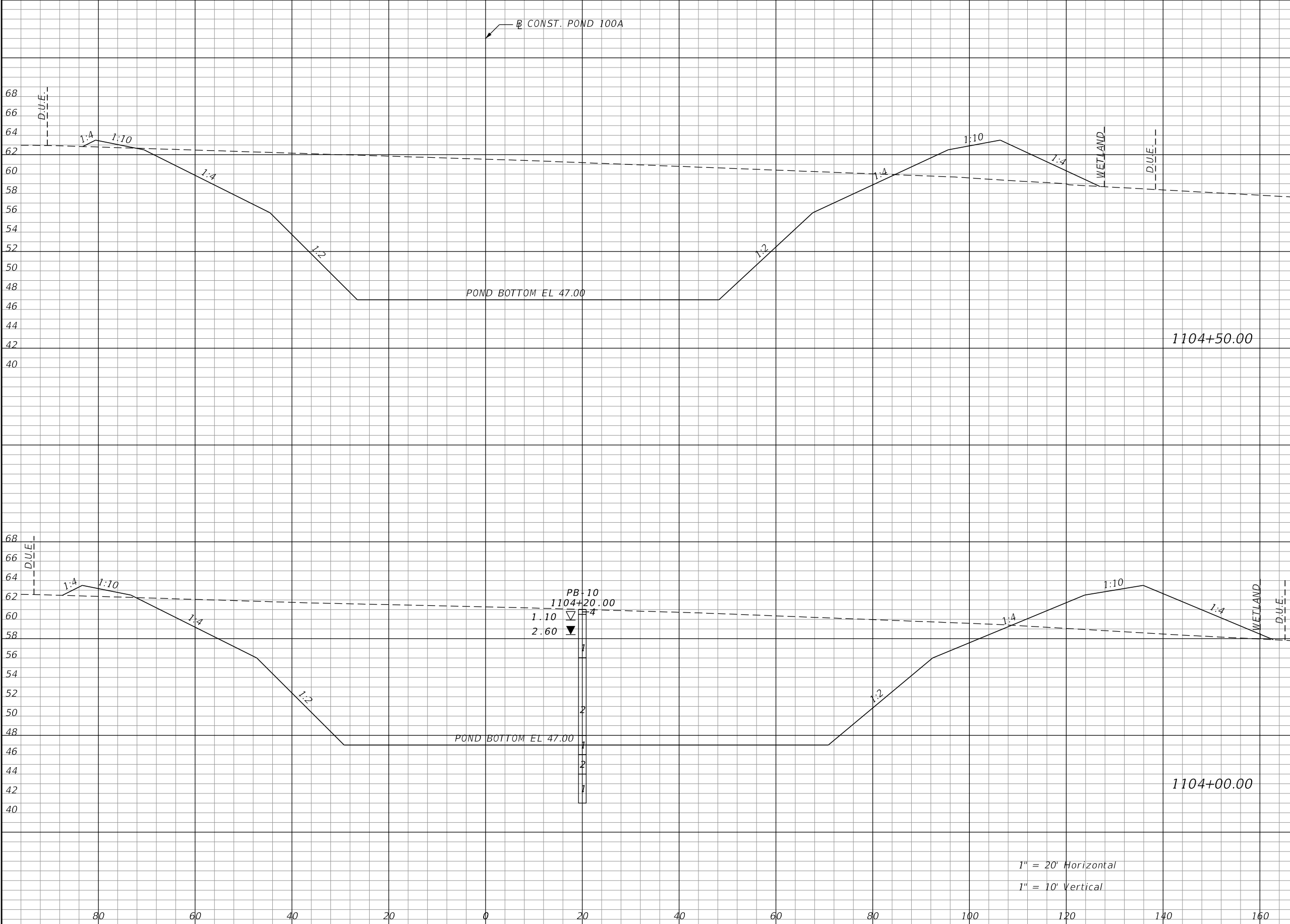
DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
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ORLANDO, FL 32801

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AND TRANSPORTATION
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KISSIMMEE, FLORIDA 34741-5488
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**POND 100A
CROSS SECTIONS**

SHEET NO.
91

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Regular		Exc.		Embankment	
A	V	A	V	A	V
1553		3166		99	233
1866		3668		153	283

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
P.E. LICENSE NUMBER 81420
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

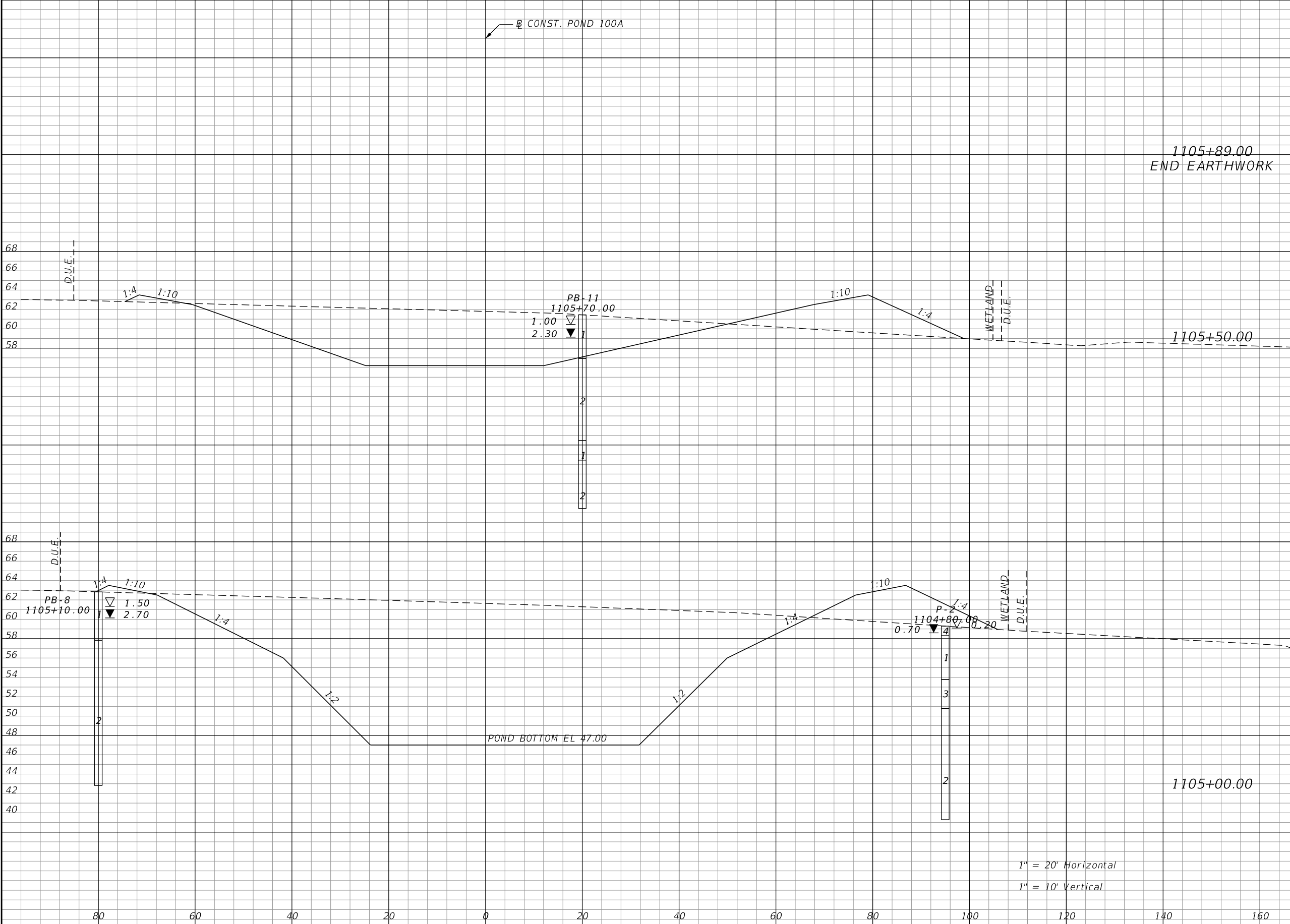


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1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
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**POND 100A
CROSS SECTIONS**

SHEET NO.
92

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Regular		Exc.		Embankment	
A	V	A	V	A	V
0	306	0	74	0	74
423	1591	102	176	102	176
1295	2637	88	173	88	173

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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ORLANDO, FL 32801

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**POND 100A
CROSS SECTIONS**

SHEET
NO.
93

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

DATE OF SURVEY: JULY - AUGUST 2020, MAY - JULY 2021
 SURVEY MADE BY: GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. (GEC)
 SUBMITTED BY: CHRISTOPHER P. MEYER, P.E.
 FPN NO.: 445415-3-58-01

CITY: KISSIMMEE
 ROAD NO.: NEPTUNE ROAD (CR 525)
 COUNTY: OSCEOLA

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADWAY AND PONDS

PROJECT NAME: NEPTUNE ROAD (CR 525) WIDENING FROM PARTIN SETTLEMENT ROAD TO KINGS CREST ROAD

NEPTUNE ROAD APPROXIMATE BEGIN STA. : 0+00 NEPTUNE ROAD APPROXIMATE END STA. : 74+92.75

STATIONS REFERENCE: CR 525 CENTERLINE OF CONSTRUCTION

STRATUM NO.	NO. OF TESTS	ORGANIC %	MOISTURE 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	1	3.7	1	39	7(FULL) 1(-200)	99-100	98-100	93-98	65-82	5-9	0	-	-	A-3	LIGHT GRAY TO GRAY TO BROWN TO LIGHT BROWN FINE SAND TO FINE SAND WITH SILT, OCCASIONAL TRACE ORGANIC MATERIAL AND ASPHALT, TRACE TO SOME LIMEROCK, TRACE ROOTS, TRACE TO MOSTLY SHELL AND TRACE TO SOME CEMENTED SAND	2	11,000-19,000	15-30	<6	4.3-6.5
2	3	2.0-4.1	6	18-29	10(FULL) 1(-200)	97-100	91-100	82-99	60-81	10-27	3	22-27	3-10	A-2-4	LIGHT BROWN TO GRAY TO LIGHT GRAY TO BROWN FINE SAND WITH SILT TO SILTY FINE SAND, OCCASIONAL TRACE ORGANIC MATERIAL AND ROOTS, TRACE TO SOME LIMEROCK, AND TRACE CEMENTED SAND	3	6,200-19,000	15-30	<6-45	4.7-7.2
3	0	-	6	17-22	6(FULL)	100	99-100	96-99	81-85	26-59	6	30-43	14-28	A-2-6, A-7-6, A-6	BROWN TO LIGHT GRAY TO GRAY TO DARK BROWN TO LIGHT BROWN SILTY FINE SAND TO CLAYEY FINE SAND TO SANDY SILT TO SANDY CLAY TO SANDY LEAN CLAY, OCCASIONAL TRACE ORGANIC MATERIAL	0	-	-	-	-
4	28	6.2-86	28	27-652	13(FULL) 4(-200)	98-100	93-100	88-98	67-95	15-97	0	-	-	A-8	GRAY TO BROWN TO DARK BROWN ORGANIC CLAY TO PEAT TO MUCKY FINE SAND TO SANDY MUCK TO MUCK, OCCASIONAL TRACE TO FEW LIMEROCK, TRACE SHELL AND ORGANIC MATERIAL	0	-	-	-	-
5	0	-	0	-	0	-	-	-	-	-	0	-	-	-	LIMEROCK	0	-	-	-	-
6	0	-	0	-	-	-	-	-	-	-	0	-	-	A-7-6	GREEN TO LIGHT GRAY TO GRAY TO DARK BROWN TO BROWN FAT CLAY TO LEAN CLAY	0	-	-	-	-

NOTES

- STRATA BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH TEST HOLE 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.
- GROUNDWATER LEVEL SHOWN AS ▼ WHERE ENCOUNTERED AT TIME OF SURVEY. ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL SHOWN AS ▽. ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL AT OR ABOVE GROUND SURFACE SHOWN AS ∇. GROUNDWATER NOT ENCOUNTERED SHOWN AS "GNE". SEASONAL HIGH GROUNDWATER LEVELS ARE NOT SHOWN AT BORING LOCATIONS WHERE THE SEASONAL HIGH GROUNDWATER LEVEL IS ESTIMATED TO BE DEEPER THAN THE BORING TERMINATION DEPTH.
- REMOVAL OF PLASTIC MATERIAL OCCURRING WITHIN ROADWAY SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE STANDARD PLANS, INDEX NO. 120-002 UNLESS OTHERWISE SHOWN ON PLANS. THE MATERIAL USED IN EMBANKMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD PLANS, INDEX NO. 120-001.
- SOIL ANALYSIS INCLUDES DATA FROM ROADWAY AND POND BORINGS.
- THE SYMBOL "-" REPRESENTS AN UNMEASURED PARAMETER. NP IS NON-PLASTIC.
- STRATA 1 AND 2 SHALL BE TREATED AS SELECT (S) MATERIAL IN ACCORDANCE WITH STANDARD PLANS, INDEX NO. 120-001. STRATUM 2 WILL RETAIN EXCESS MOISTURE AND WILL TAKE ADDITIONAL EFFORT TO DRY AND COMPACT.
- STRATUM 3 SHALL BE TREATED AS PLASTIC (P) MATERIAL IN ACCORDANCE WITH STANDARD PLANS, INDEX NO. 120-001 AND SHALL BE REMOVED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-002.
- STRATUM 3 MAY RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT.
- STRATUM 4 SHALL BE TREATED AS MUCK (M) IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001 AND SHALL BE REMOVED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-002.
- STRATUM 5 MAY BE DIFFICULT TO EXCAVATE AND/OR PENETRATE AND MAY REQUIRE SPECIAL EQUIPMENT AND/OR PROCEDURES TO FACILITATE EXCAVATION AND/OR PENETRATION. THE MATERIAL FROM THIS STRATUM MAY NEED TO BE PULVERISED PRIOR TO USE AS FILL.
- STRATUM 6 SHALL BE TREATED AS HIGH PLASTIC (H) MATERIAL IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	GEC J4617G (PARTIN TO KING)	4/24/23	



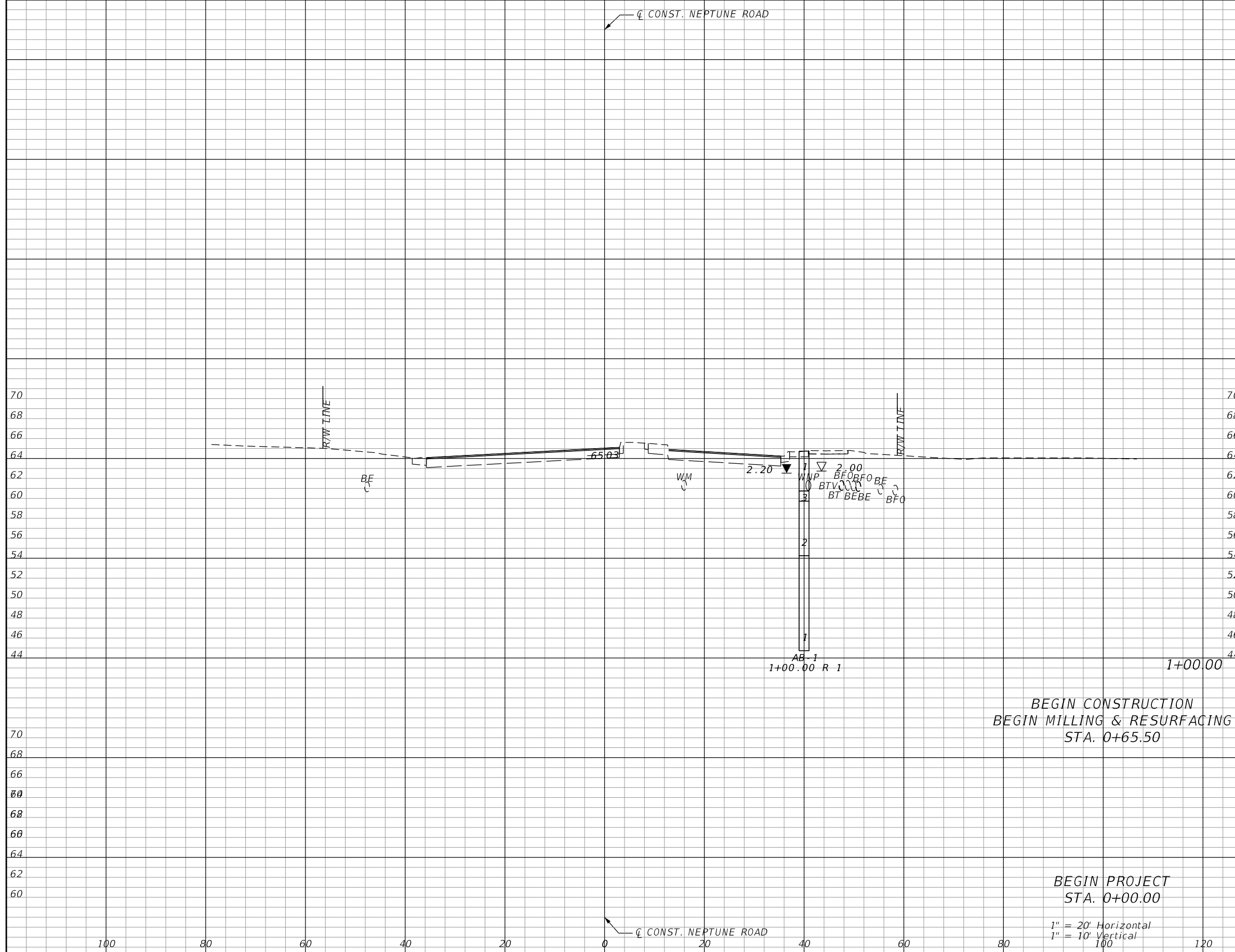
OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
 1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE:(407) 742-0662 FAX:(407) 742-0600

ROADWAY AND POND SOIL SURVEY

FIGURE 3

SHEET NO. 94


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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	0.0	0.0	0.0	0.0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

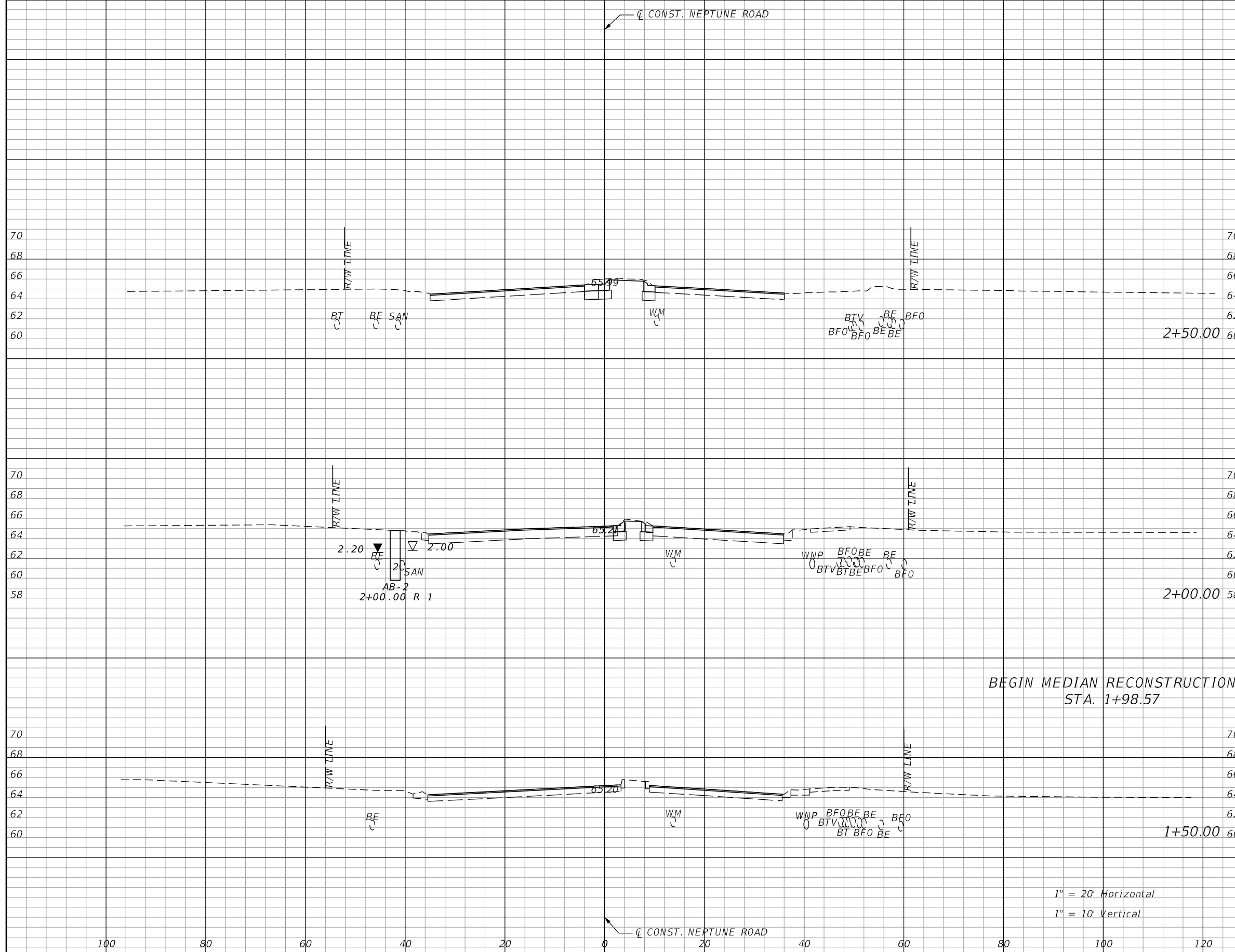
DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

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AND TRANSPORTATION
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CROSS SECTIONS
NEPTUNE ROAD

SHEET NO.
95

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	22.3	36.0	0.0	0.0
0.0	0.0	16.6	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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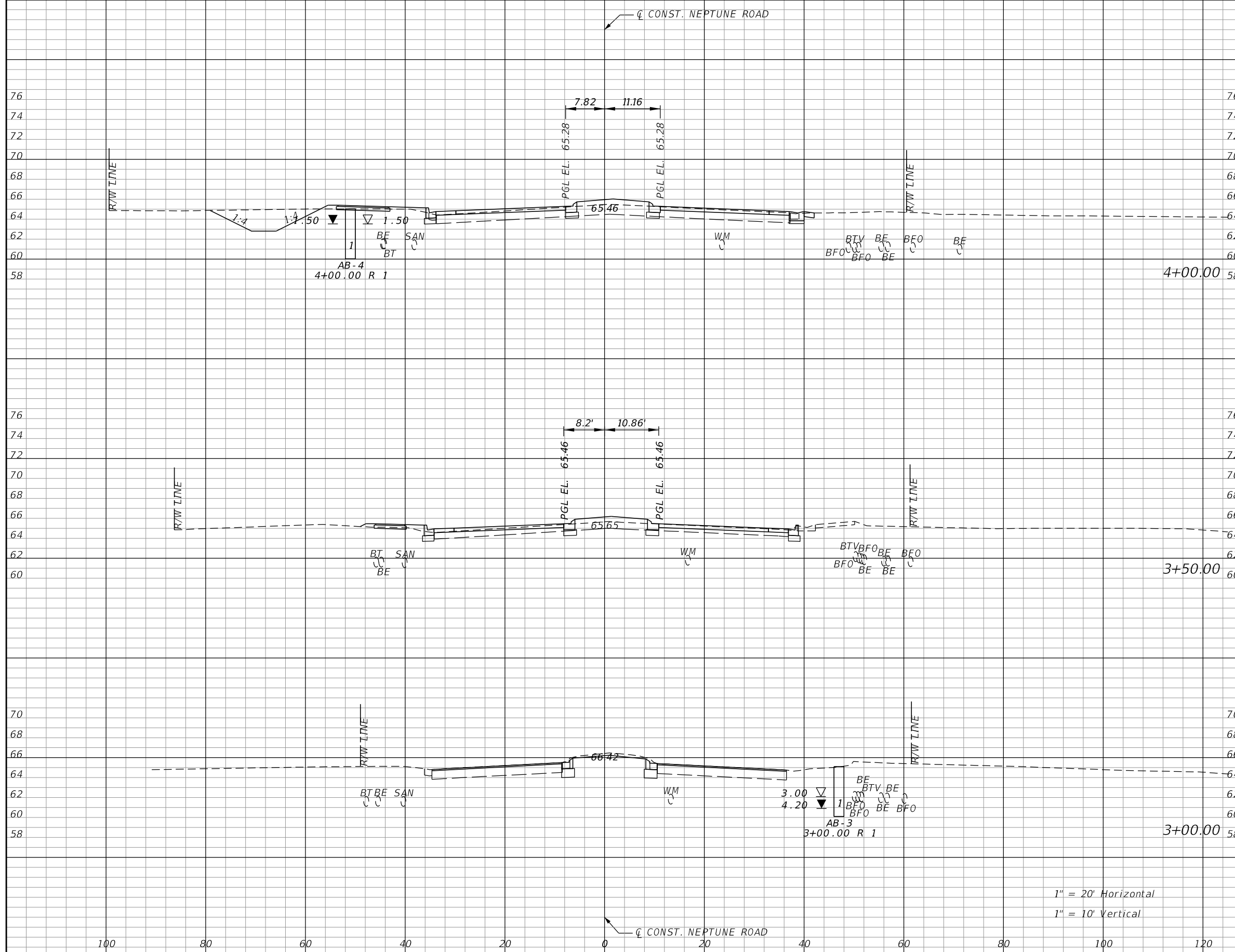


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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET NO.
96

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	54.1	71.9	9.8	17.9
0.0	0.0	23.5	38.8	9.5	8.8
0.0	0.0	18.4	37.7	0.0	0.0

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

REVISIONS			
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NEPTUNE ROAD**

SHEET NO.
97

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	87.0	131.9	13.1	24.6
0.0	0.0	55.4	104.9	13.1	22.8
0.0	0.0	57.9	103.7	11.5	19.7

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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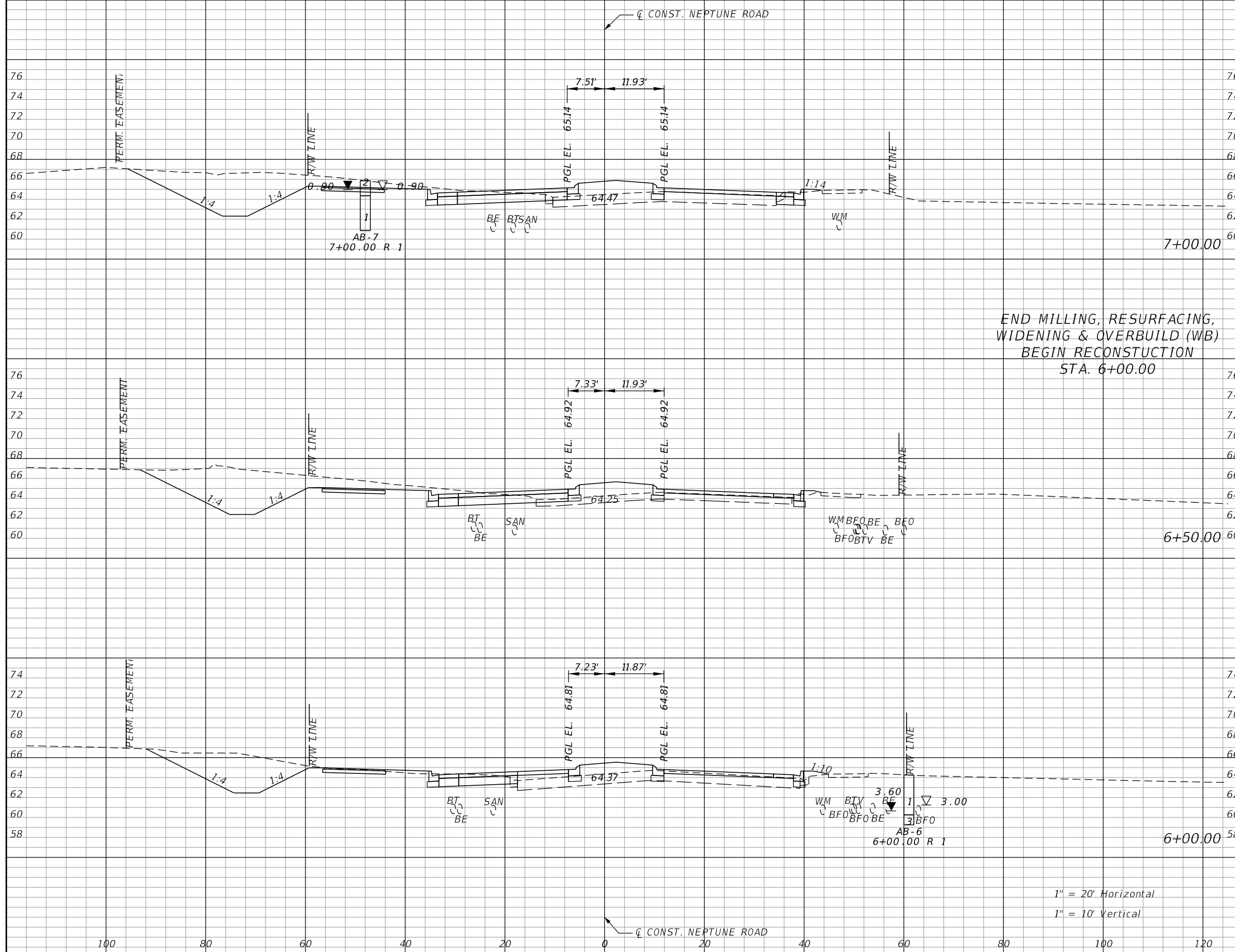


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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET NO.
98

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	156.6	287.4	18.7	34.4
0.0	0.0	153.8	239.4	18.4	37.7
0.0	0.0	104.7	177.5	22.3	32.8

END MILLING, RESURFACING,
WIDENING & OVERBUILD (WB)
BEGIN RECONSTRUCTION
STA. 6+00.00

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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ORLANDO, FL 32801

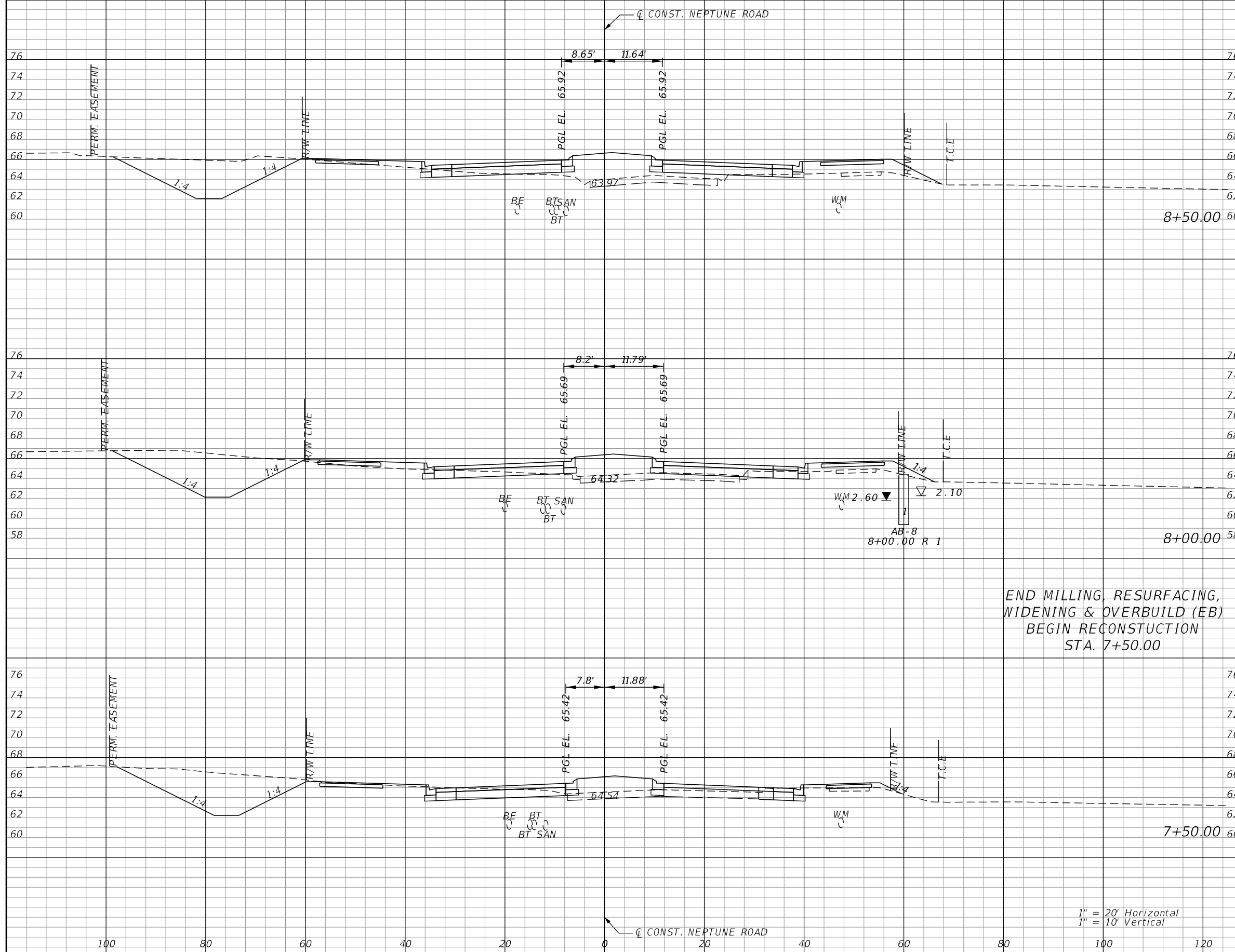


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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
99


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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	97.5	200.9	76.6	117.3
0.0	0.0	119.5	237.1	50.1	74.4
0.0	0.0	136.6	271.5	30.2	45.3

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

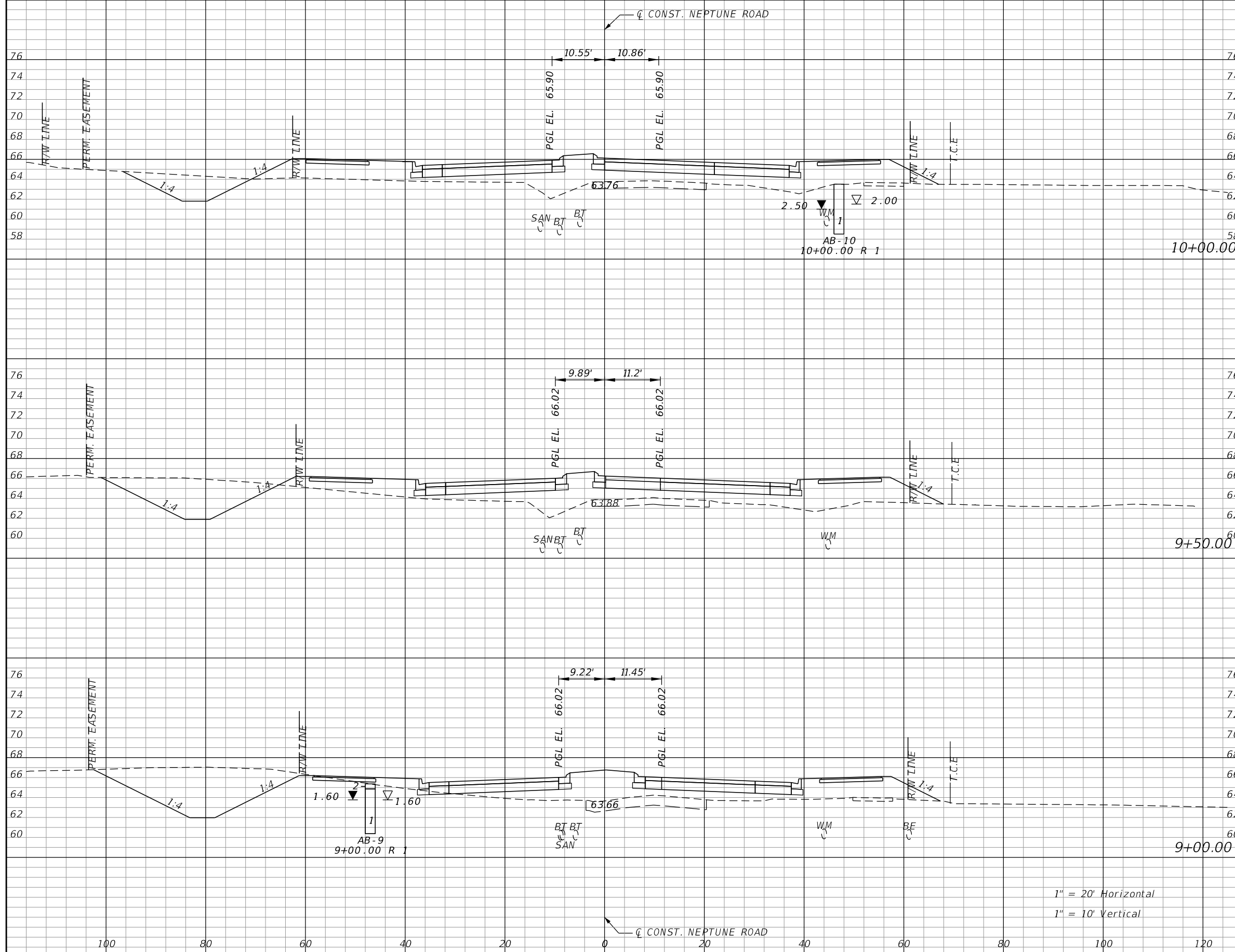
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CROSS SECTIONS
NEPTUNE ROAD

SHEET NO.
100

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	39.6	114.0	191.7	342.1
0.0	0.0	83.5	193.4	177.8	283.1
0.0	0.0	125.4	206.4	128	189.4

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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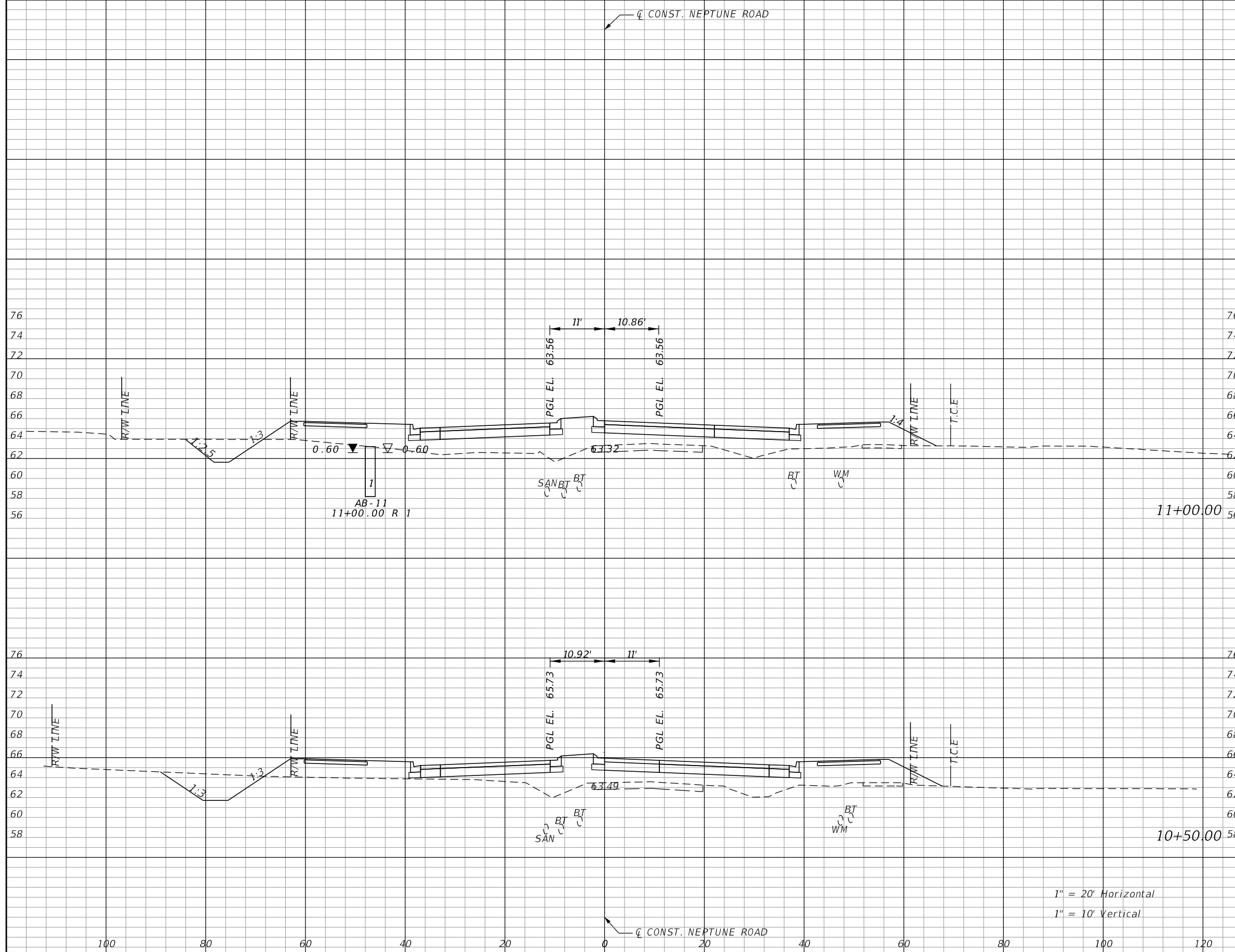


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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
101

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	21.2	50.9	219.2	378.0
0.0	0.0	33.8	68.0	189.0	352.5

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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ORLANDO, FL 32801

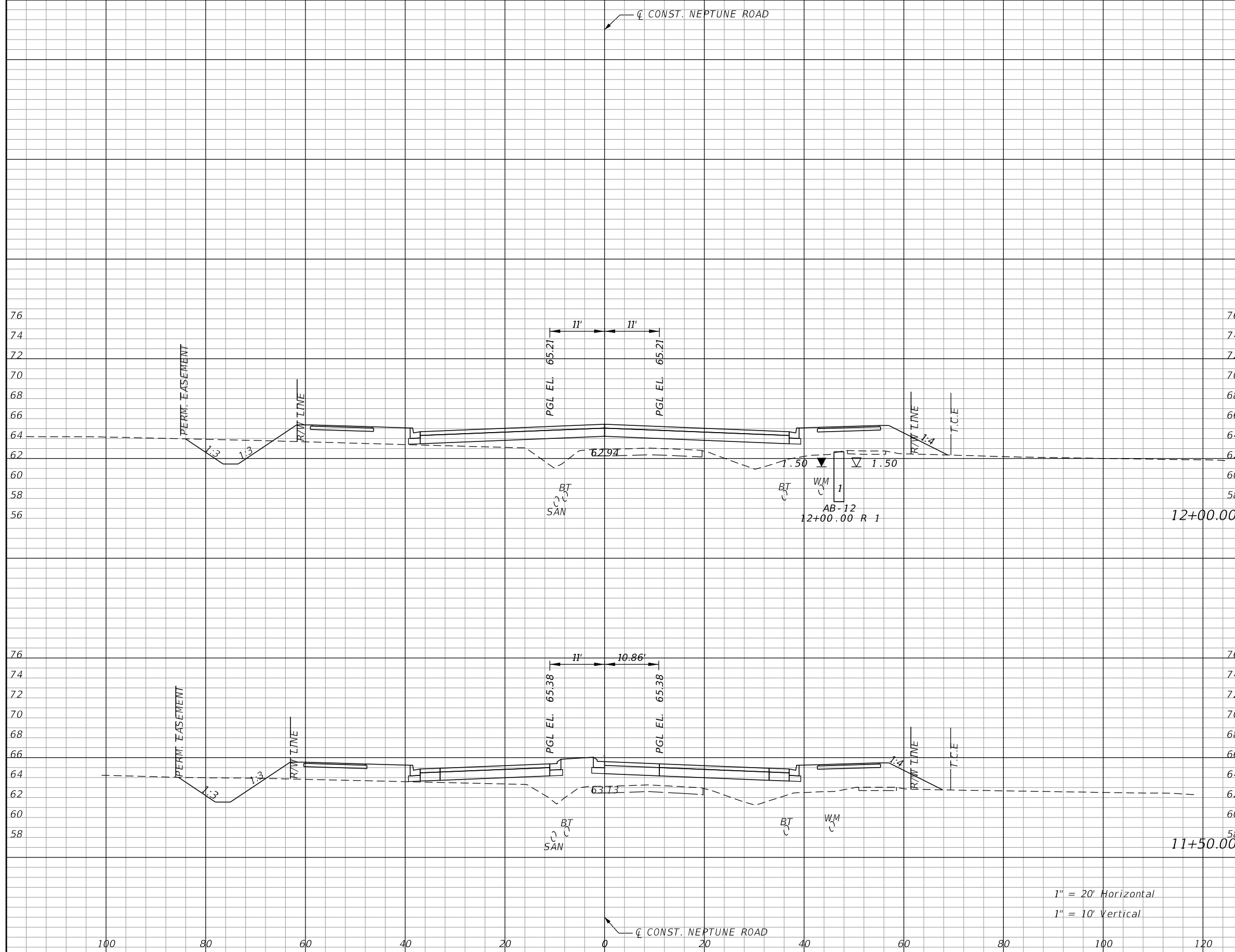


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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
102

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	24.8	46.0	191.0	356.2
0.0	0.0	24.9	42.7	193.7	382.3

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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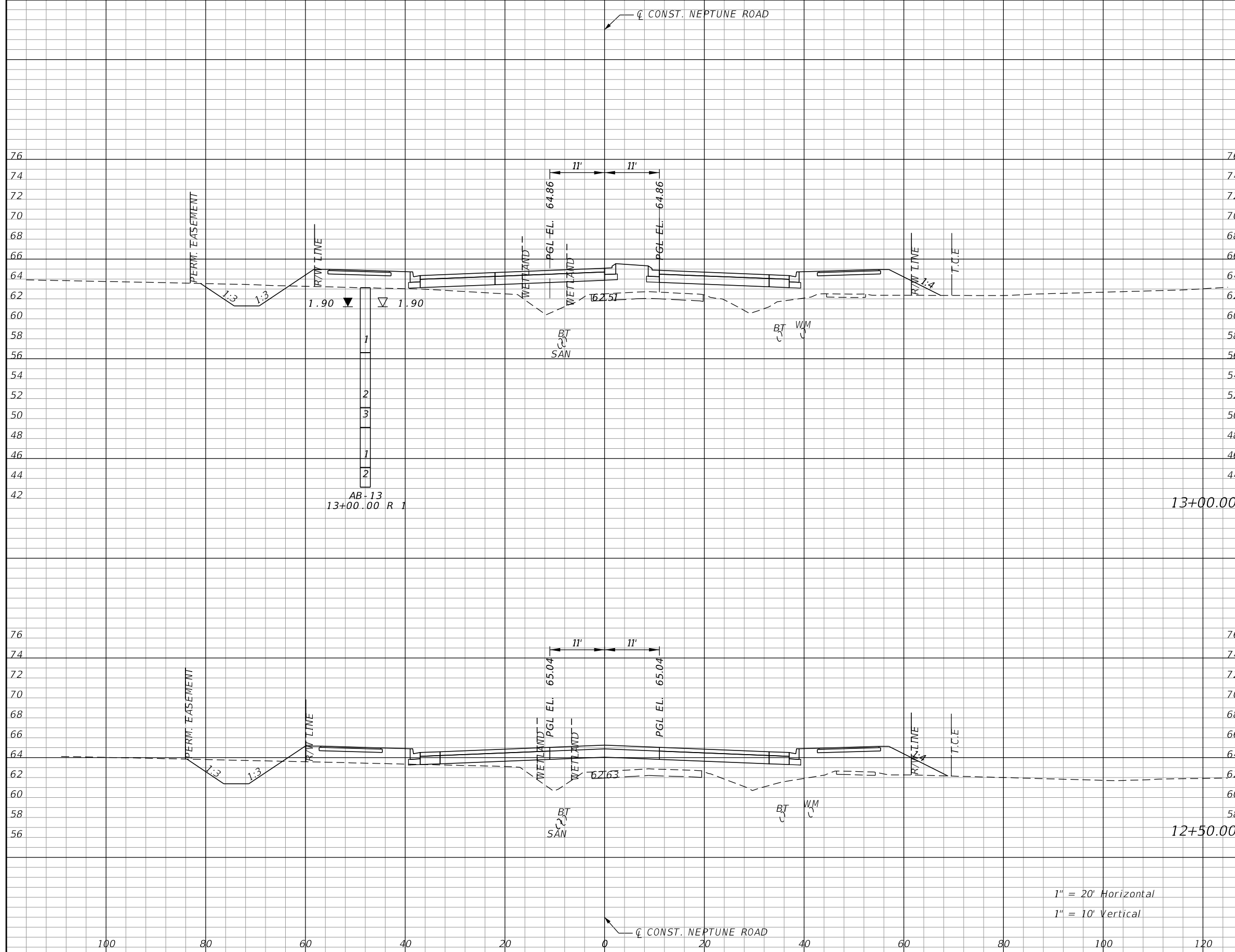


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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET NO.
103

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	24.3	49.0	198.0	356.1
0.0	0.0	28.6	49.4	186.6	349.6

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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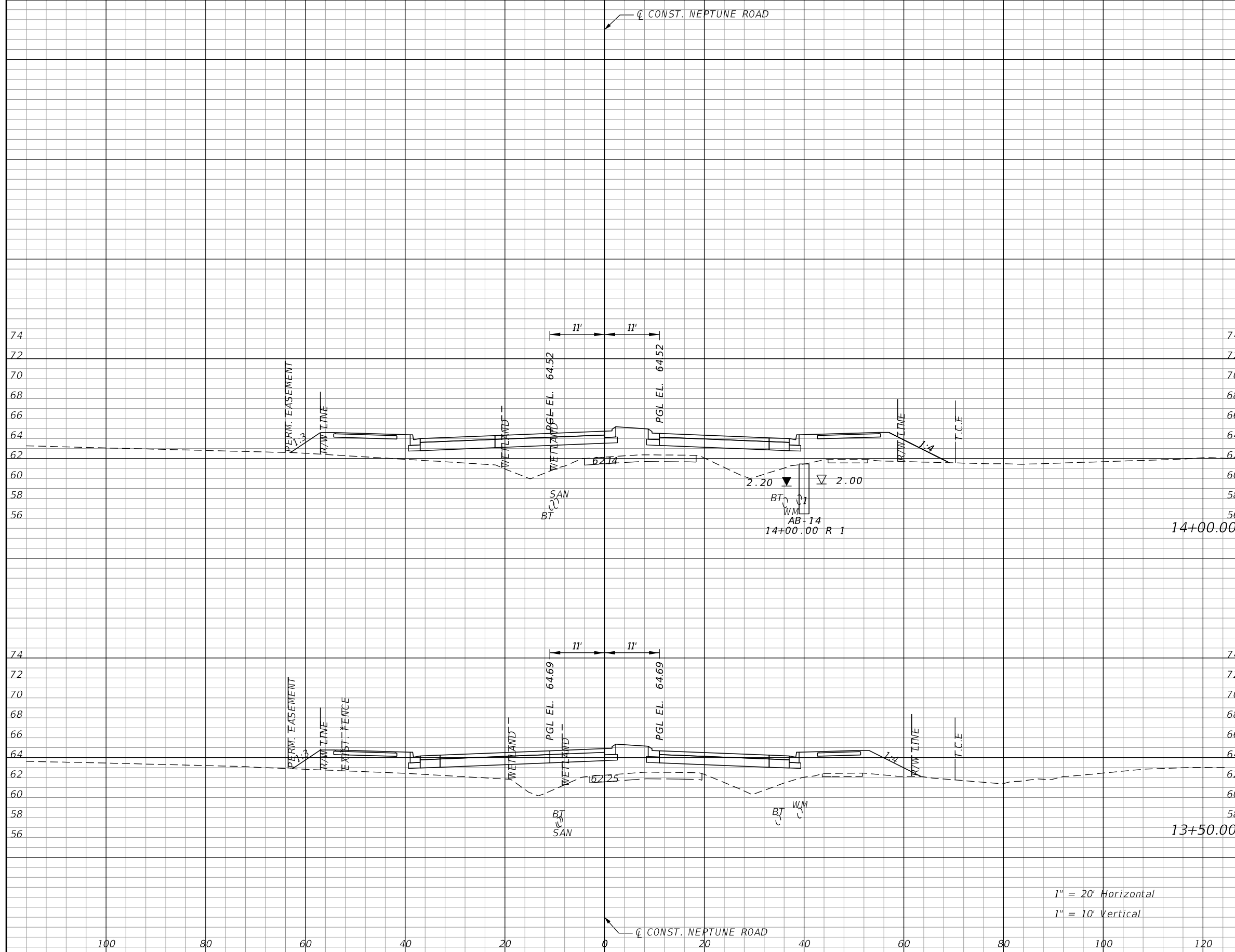


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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET NO.
104

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	0.0	0.0	244.6	419.2
0.0	0.0	0.0	22.5	208.1	376.0

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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ORLANDO, FL 32801

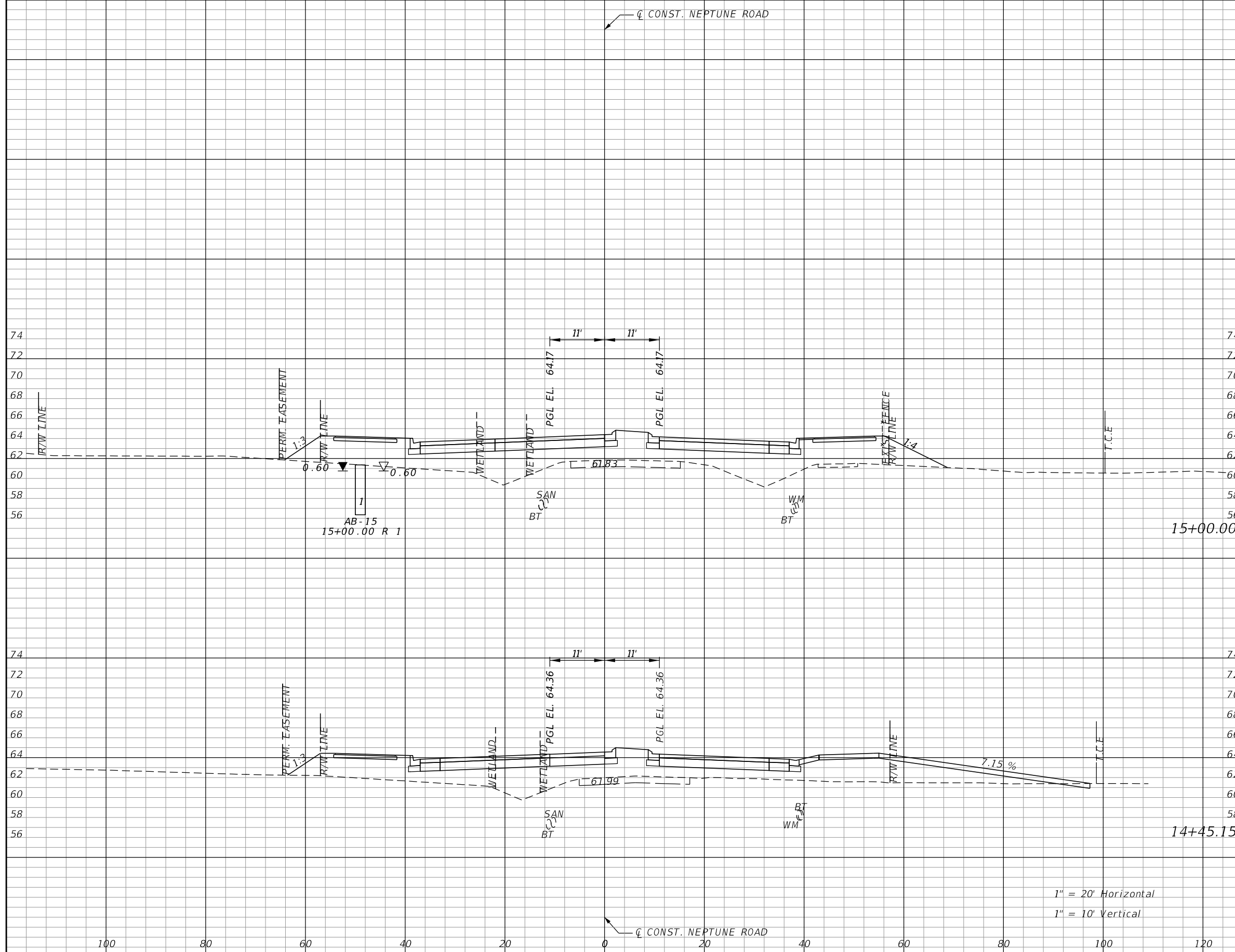


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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
105

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	0.0	1.7	272.9	525.0
0.0	0.0	1.7	1.4	244.0	408.5

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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ORLANDO, FL 32801

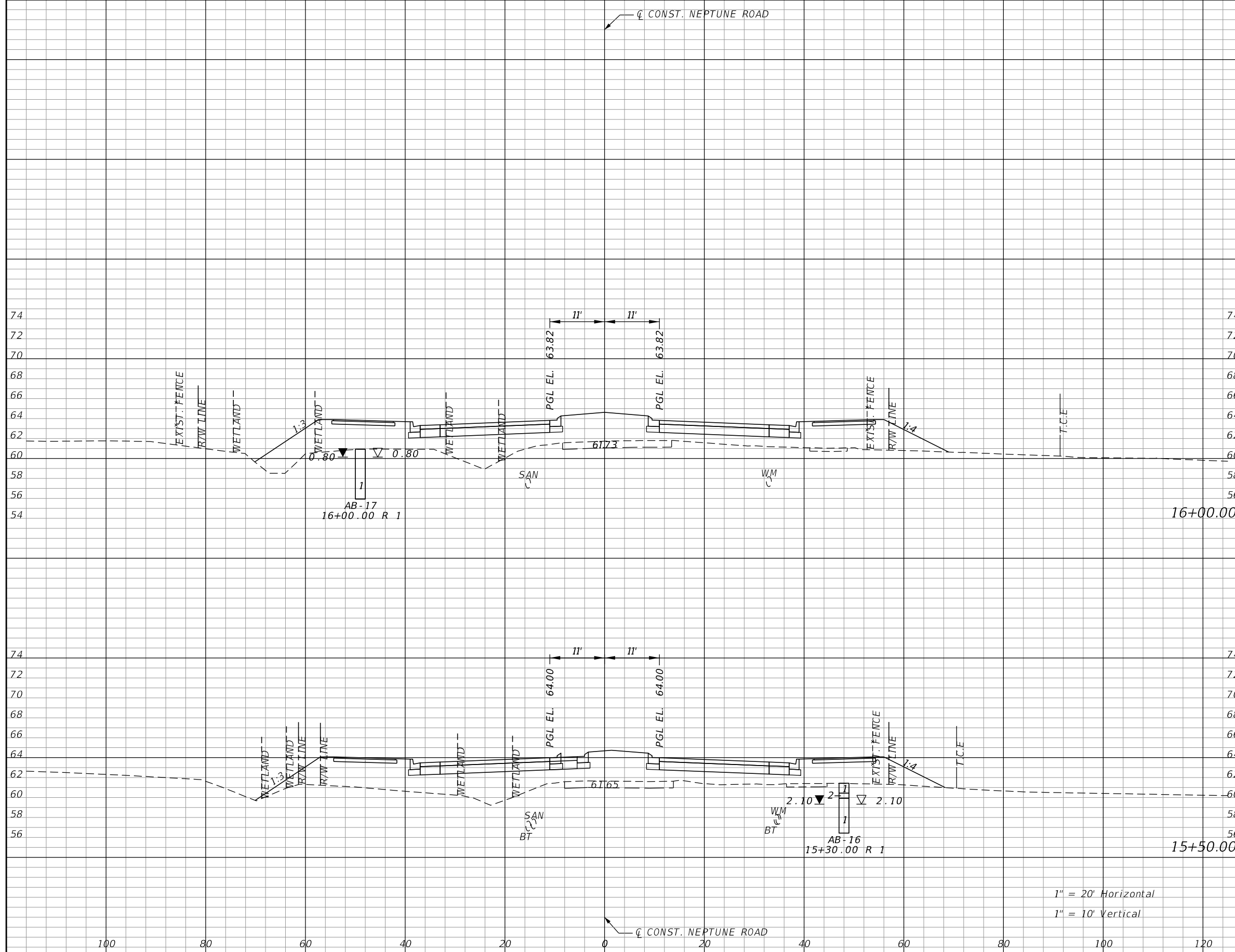


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CROSS SECTIONS
NEPTUNE ROAD

SHEET NO.
106

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	0.0	0.0	273.6	493.7
0.0	0.0	0.0	0.0	259.6	493.1

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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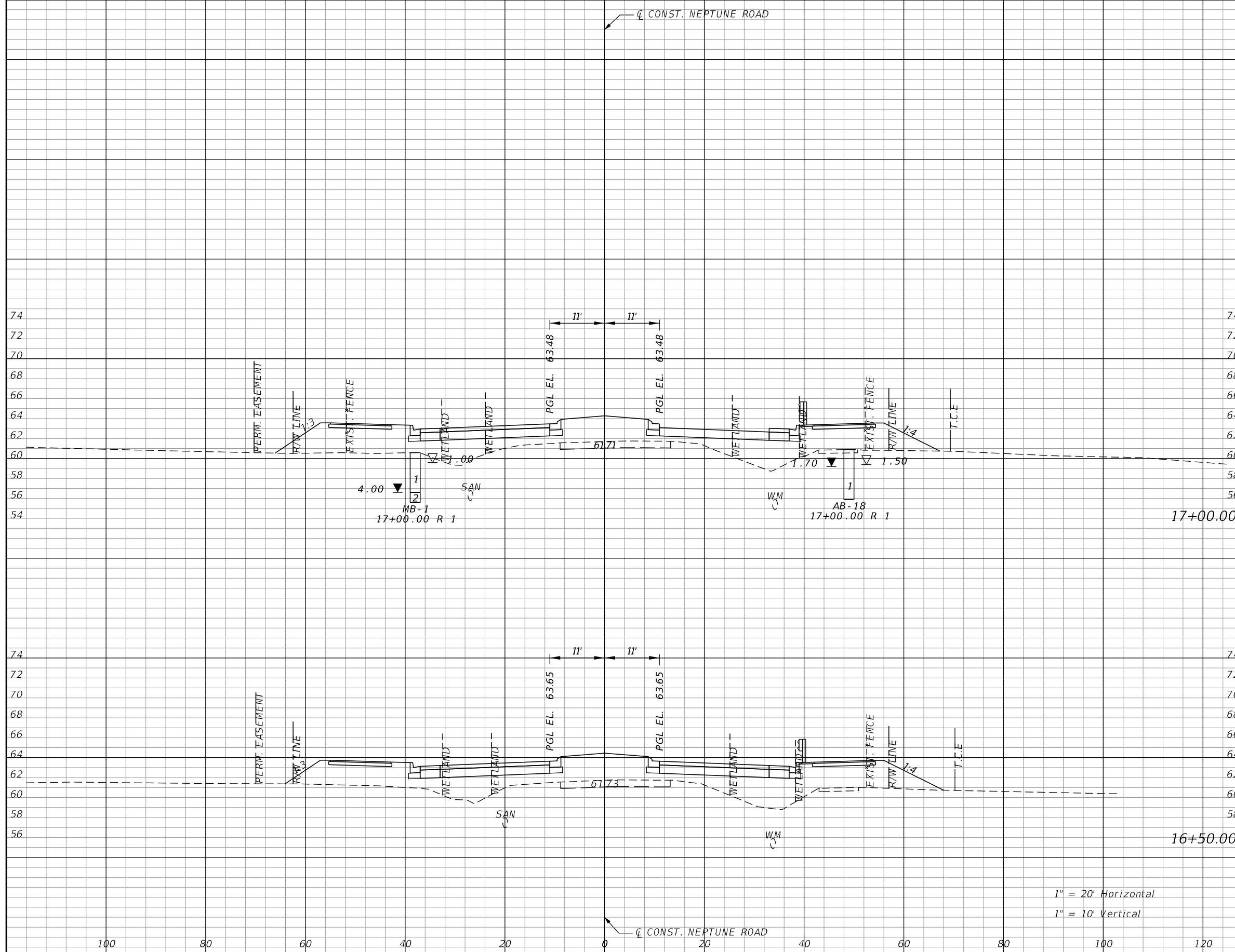


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CROSS SECTIONS
NEPTUNE ROAD

SHEET NO.
107

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	0.0	0.0	246.6	458.6
0.0	0.0	0.0	0.0	248.7	483.6

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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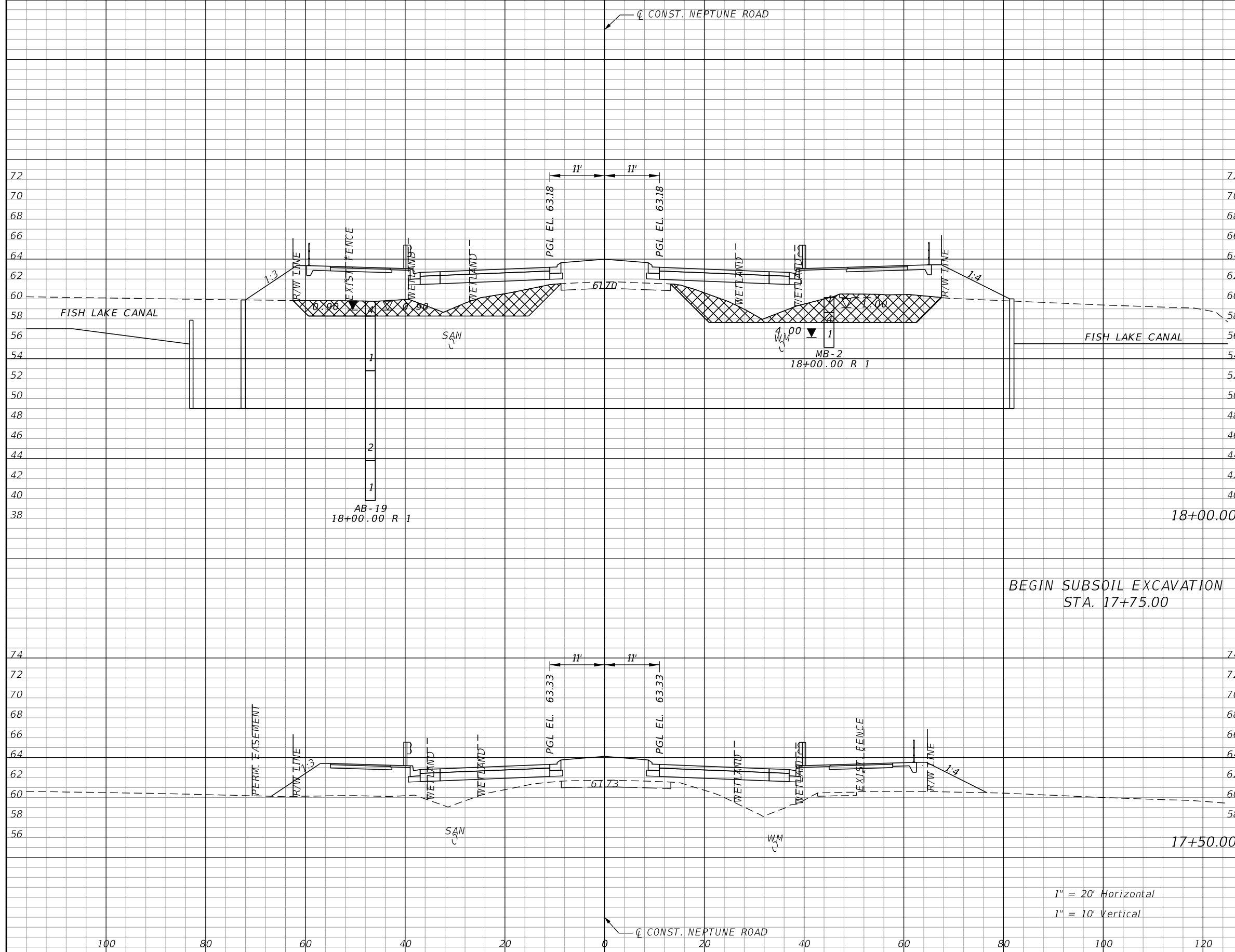


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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET NO.
108

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
182.5	169.0	2255.7	2088.6	187.8	439.4
0.0	0.0	0.0	0.0	286.7	493.8

BEGIN SUBSOIL EXCAVATION
STA. 17+75.00

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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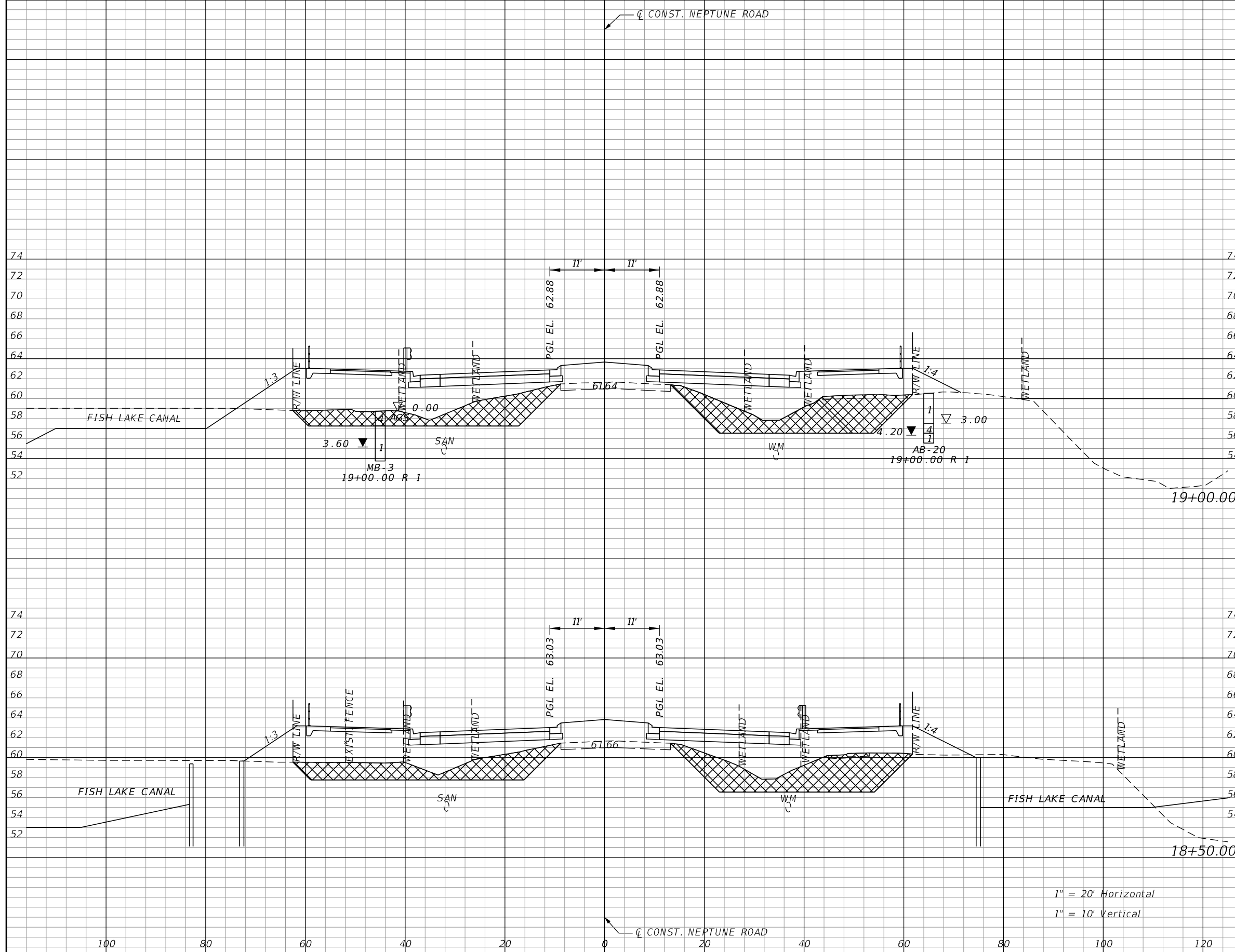


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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
109

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
204.1	379.2	281.8	2414.9	818.1	1126.8
205.4	359.2	2326.3	4242.6	398.8	543.2

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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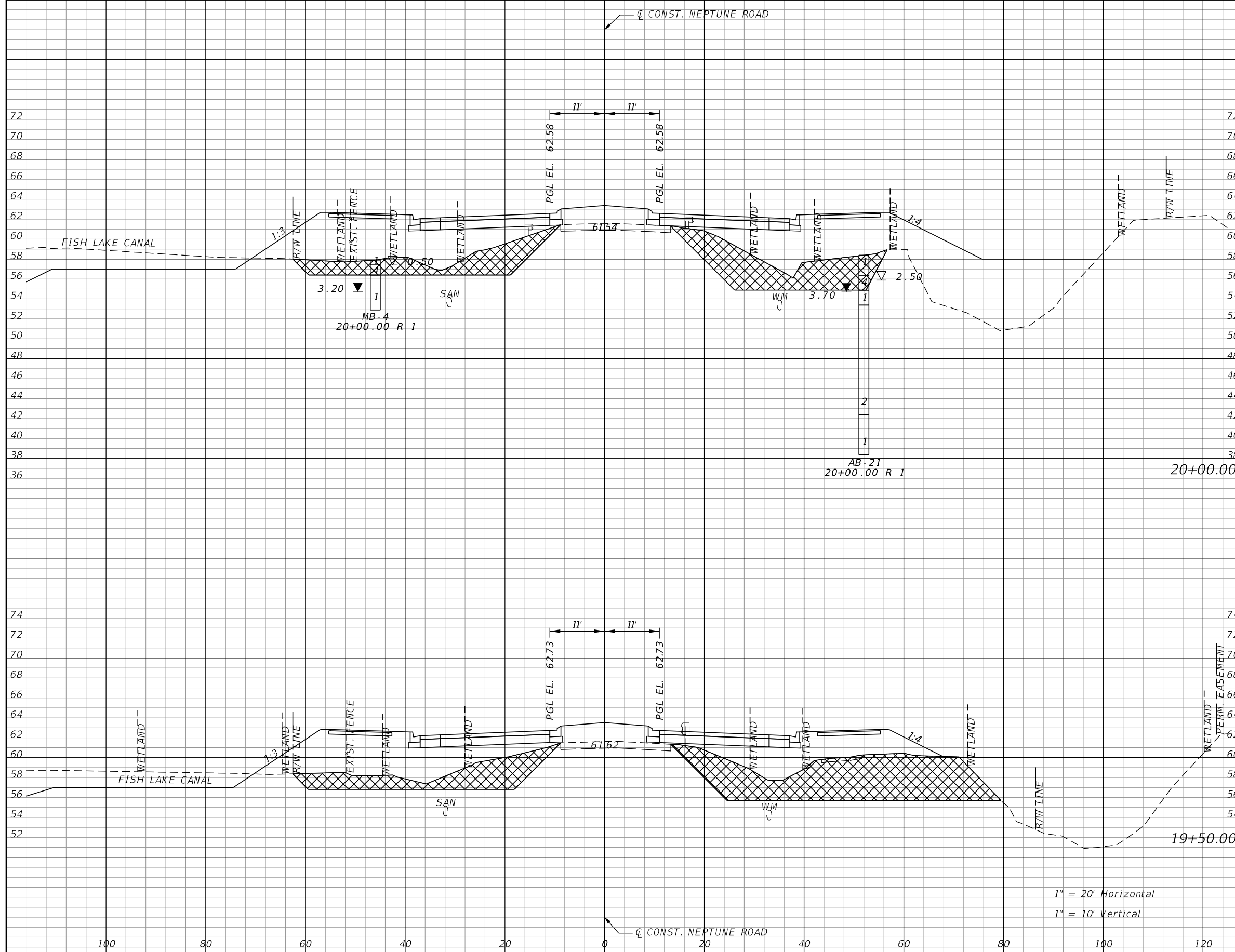


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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET NO.
110

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	Subsoil Exc.		Regular Exc.		Embankment	
	A	V	A	V	A	V
20+00.00	201.7	475.4	255.9	457.4	745.8	1504.5
19+50.00	311.7	477.6	238.1	481.4	879.0	1571.4

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

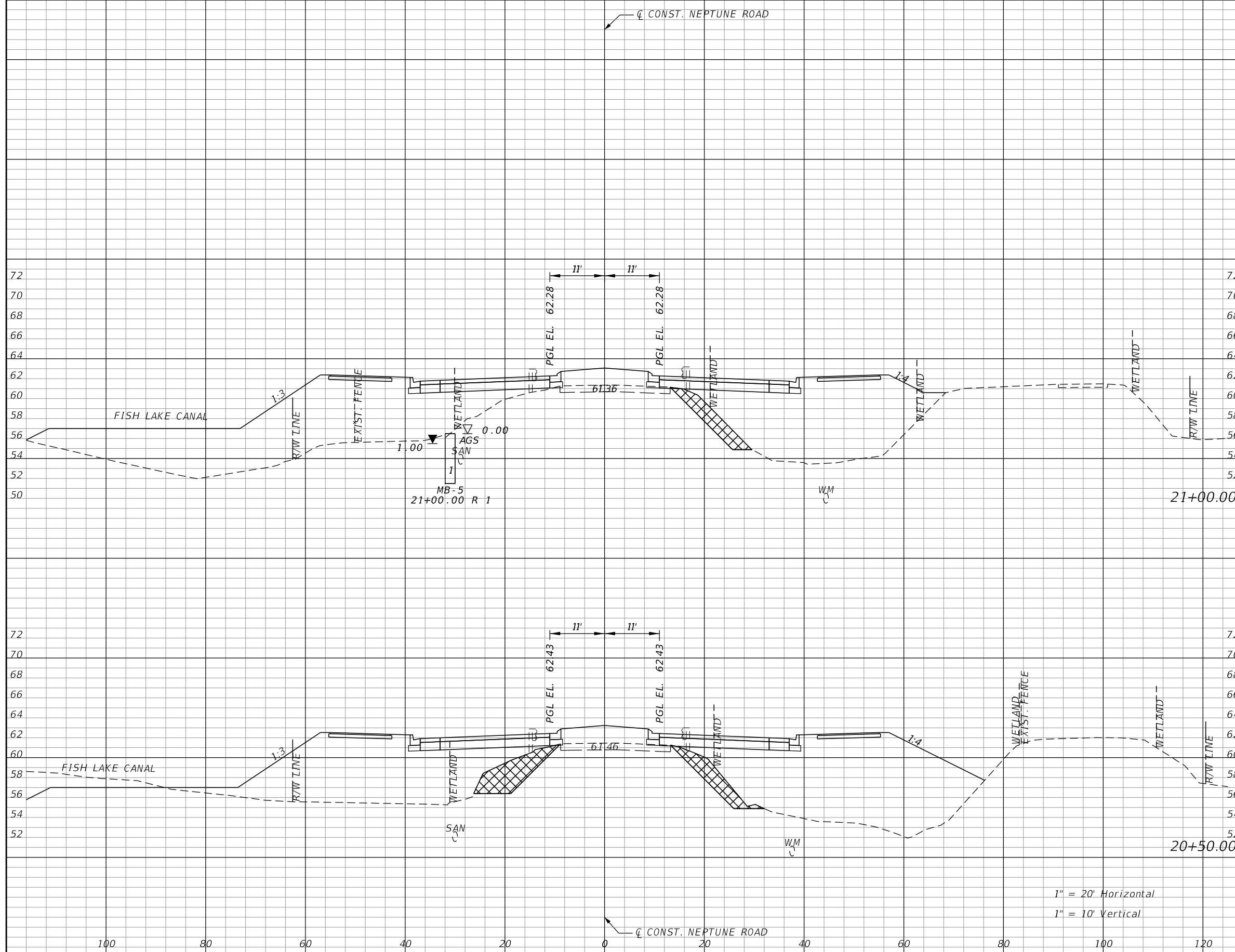


OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

CROSS SECTIONS
NEPTUNE ROAD

SHEET NO.
111

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.




Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
23.4	75.8	137.6	314.9	759.4	1390.1
58.5	240.9	202.5	424.4	741.9	1377.5

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

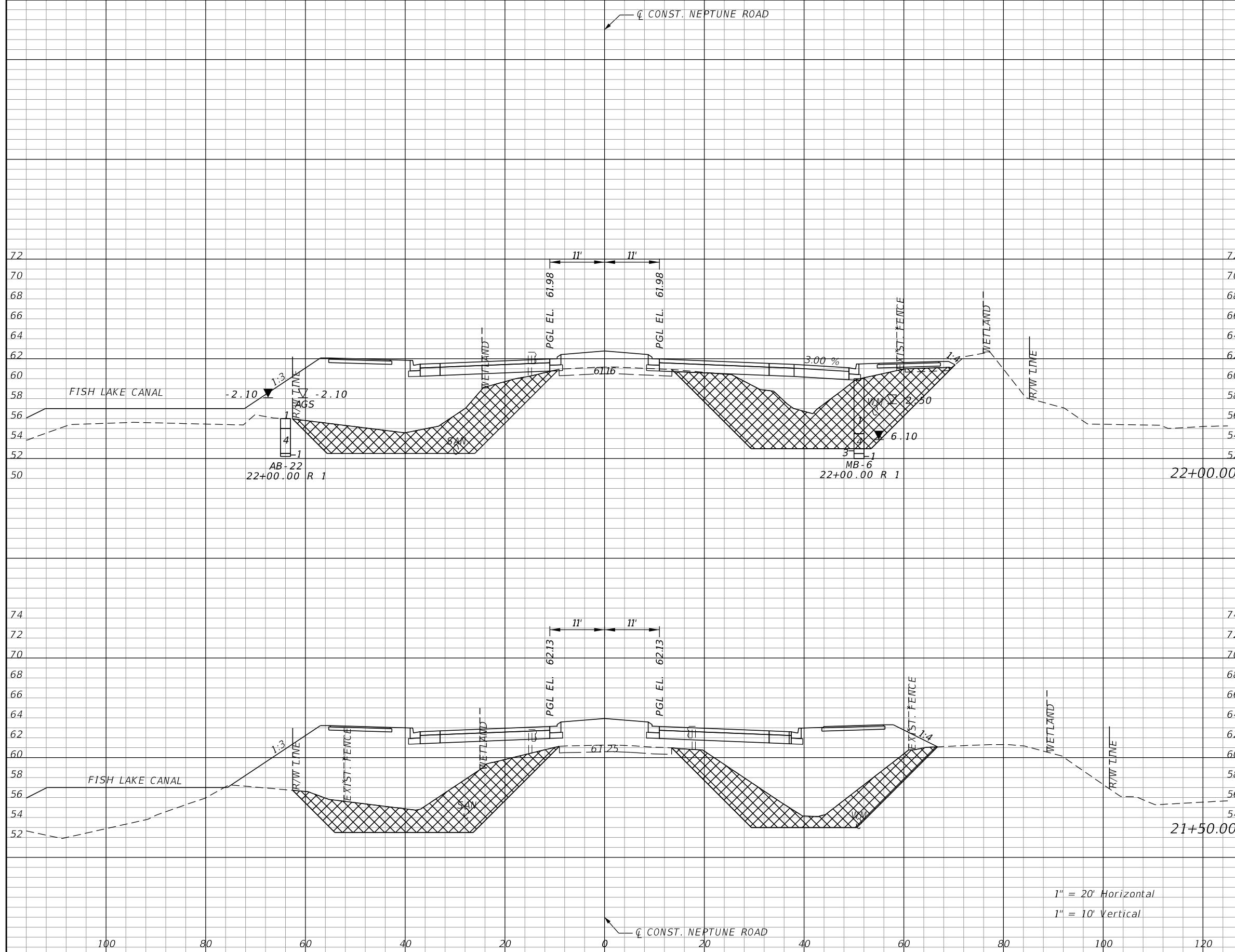


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AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

CROSS SECTIONS NEPTUNE ROAD

SHEET
NO.
112

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.




Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
395.3	639.3	8.0	59.4	813.7	1679.5
295.1	294.9	56.1	179.4	1000.1	1629.2

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

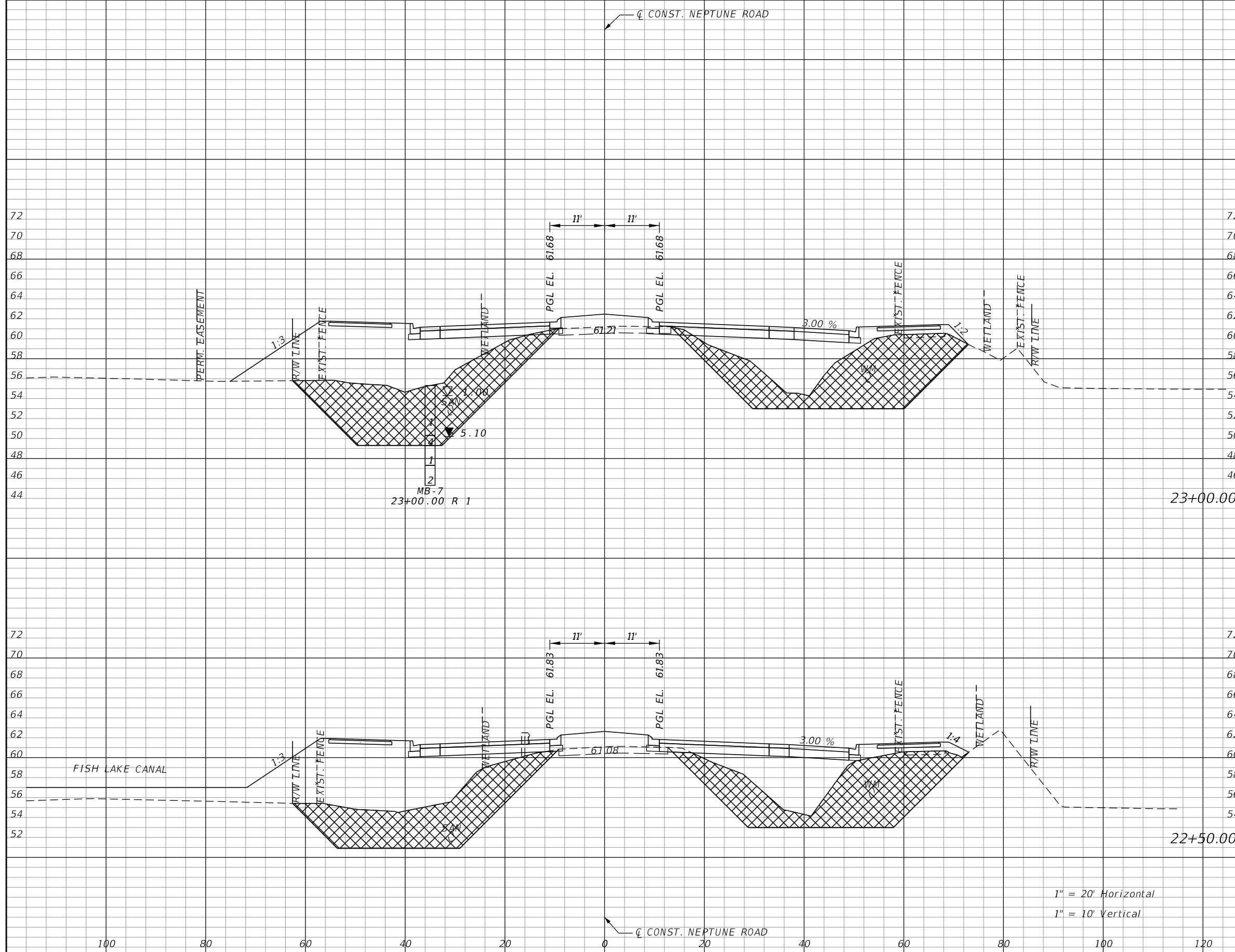


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AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
113

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	Subsoil Exc.		Regular Exc.		Embankment	
	A	V	A	V	A	V
23+00.00	456.5	807.4	8.0	11.1	805.7	1550.0
22+50.00	415.5	750.7	4.0	11.1	868.3	1557.4

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

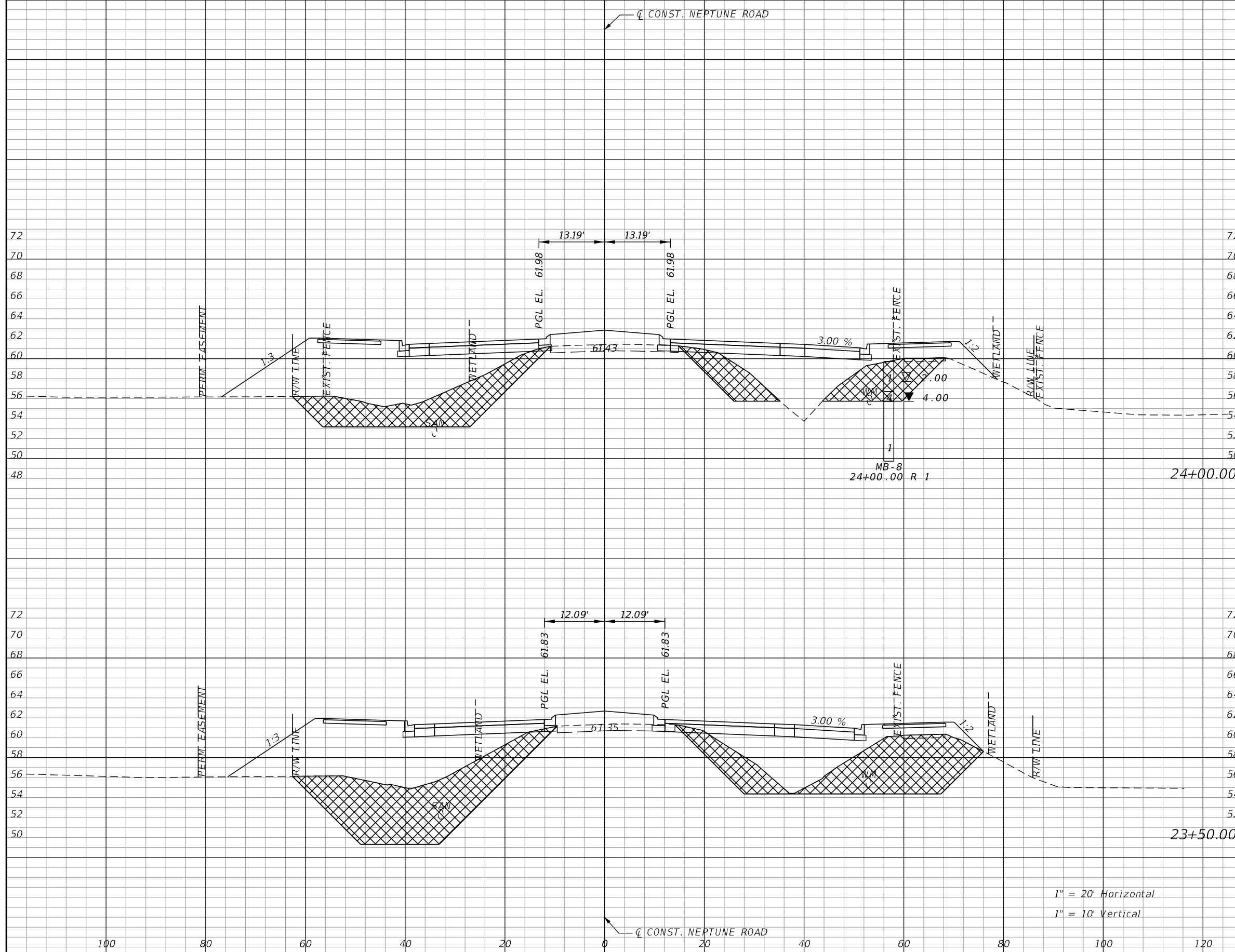


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1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

**CROSS SECTIONS
NEPTUNE ROAD**

SHEET NO.
114

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
240.7	610.6	6.3	13.0	625.0	1309.5
418.7	810.4	7.7	14.5	789.2	1476.8

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

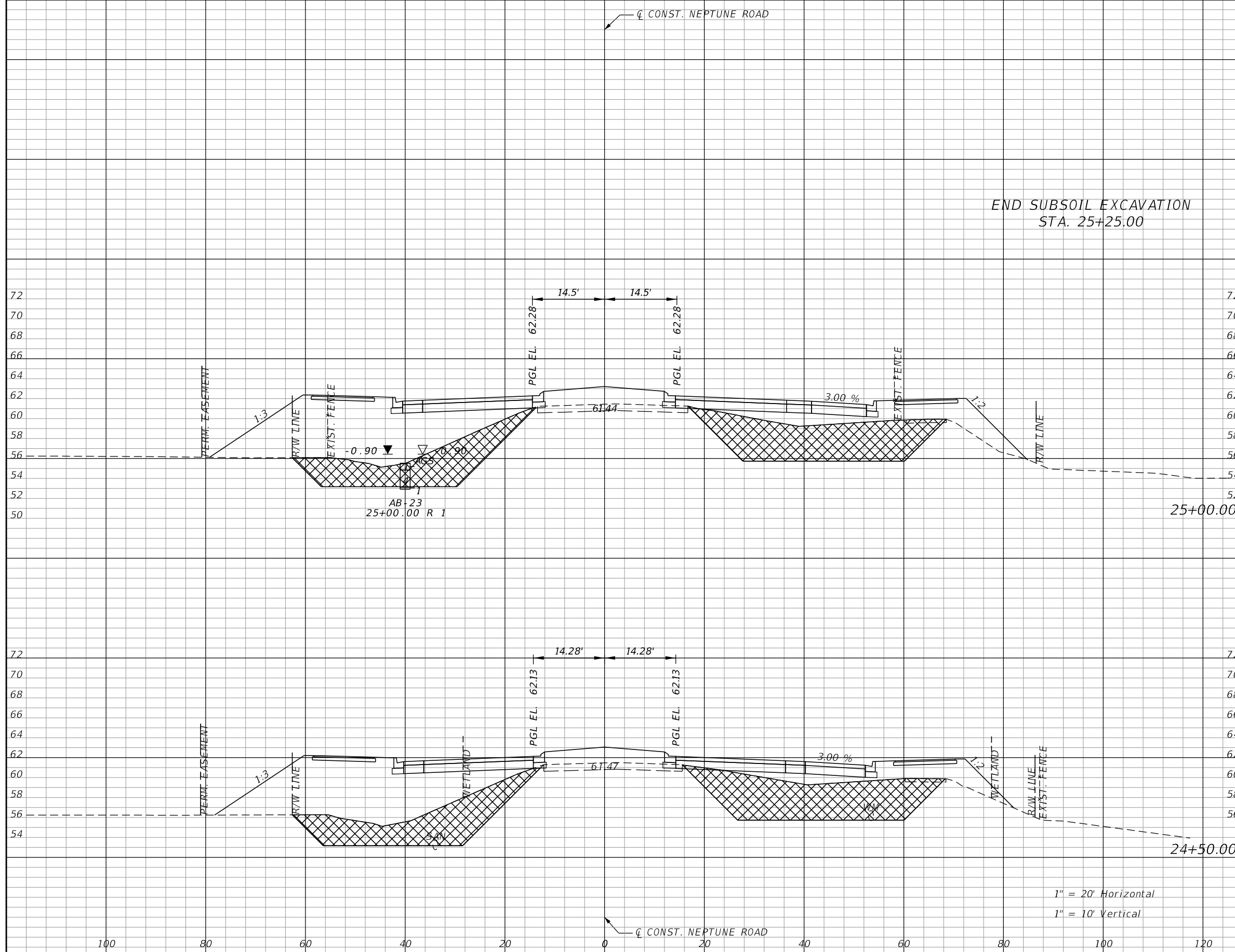
DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
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CROSS SECTIONS
NEPTUNE ROAD

SHEET NO.
115

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END SUBSOIL EXCAVATION
STA. 25+25.00

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
292.9	555.7	1.6	4.9	660.4	1201.4
307.3	507.4	3.7	9.3	637.2	1168.7

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

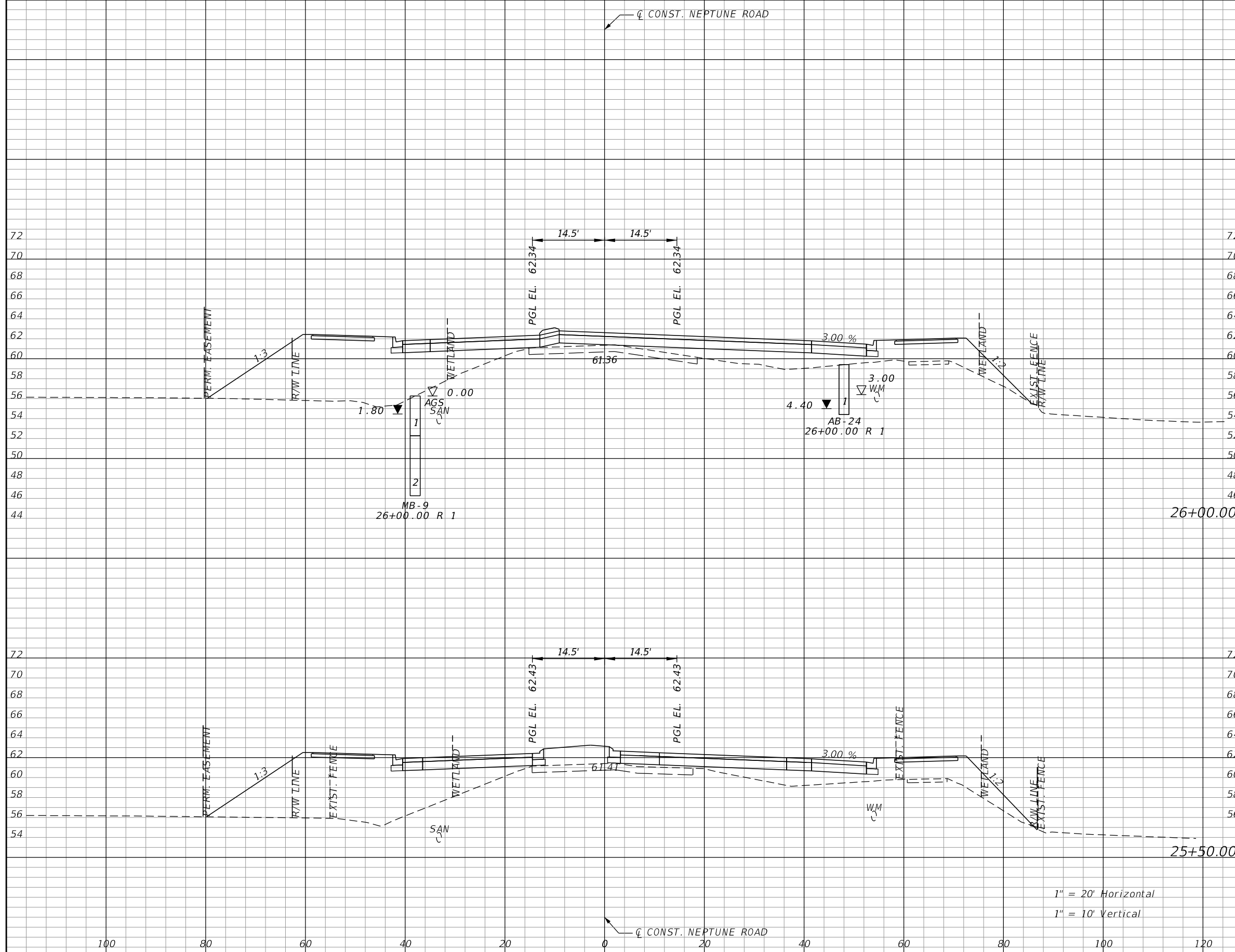


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1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET NO.
116

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	0.0	0.0	354.0	671.1
0.0	271.2	0.0	1.5	370.8	954.8

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

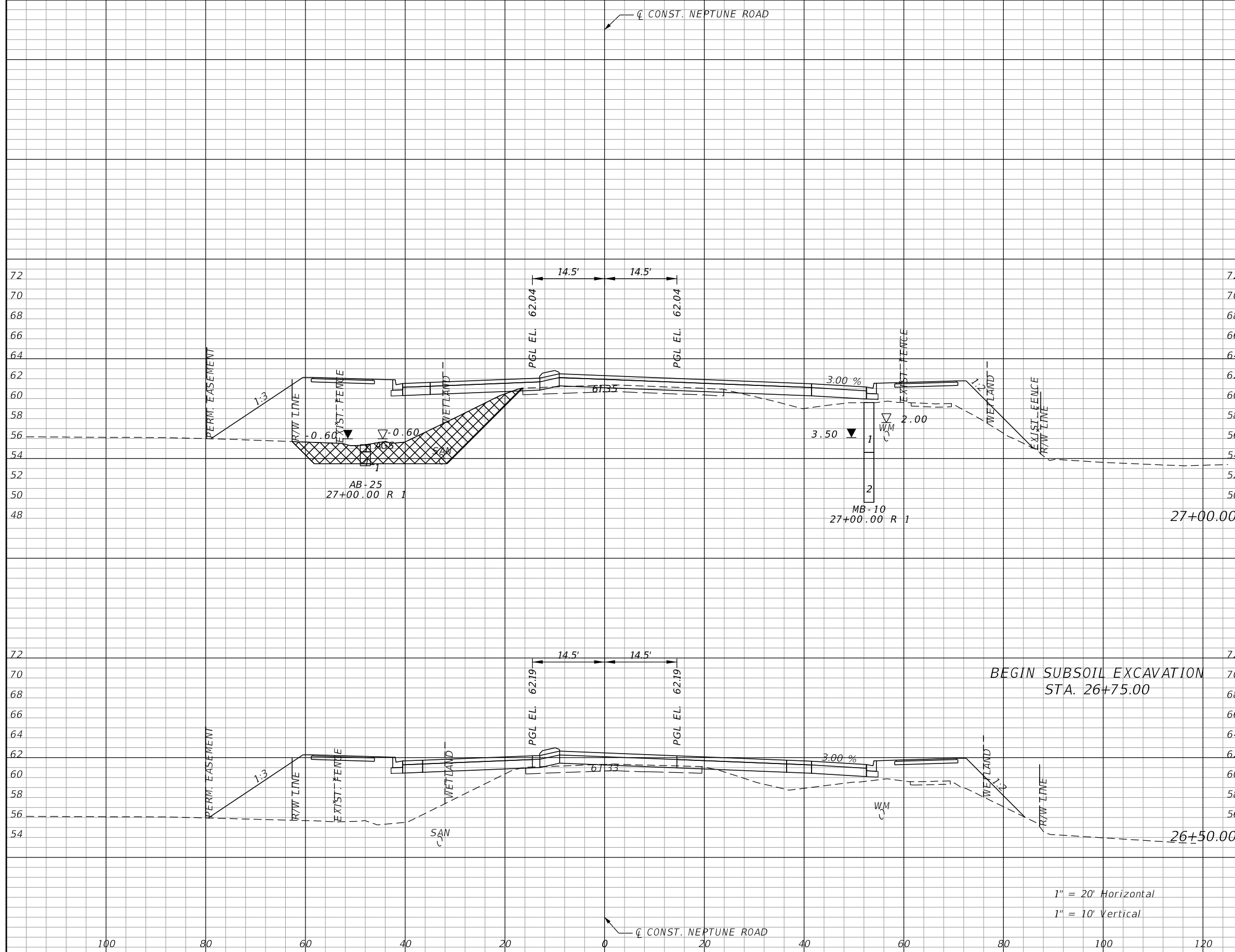


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CROSS SECTIONS
NEPTUNE ROAD

SHEET NO.
117

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
102.9	95.3	10.4	13.2	407.7	683.1
0.0	0.0	3.9	3.6	330.0	683.1

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

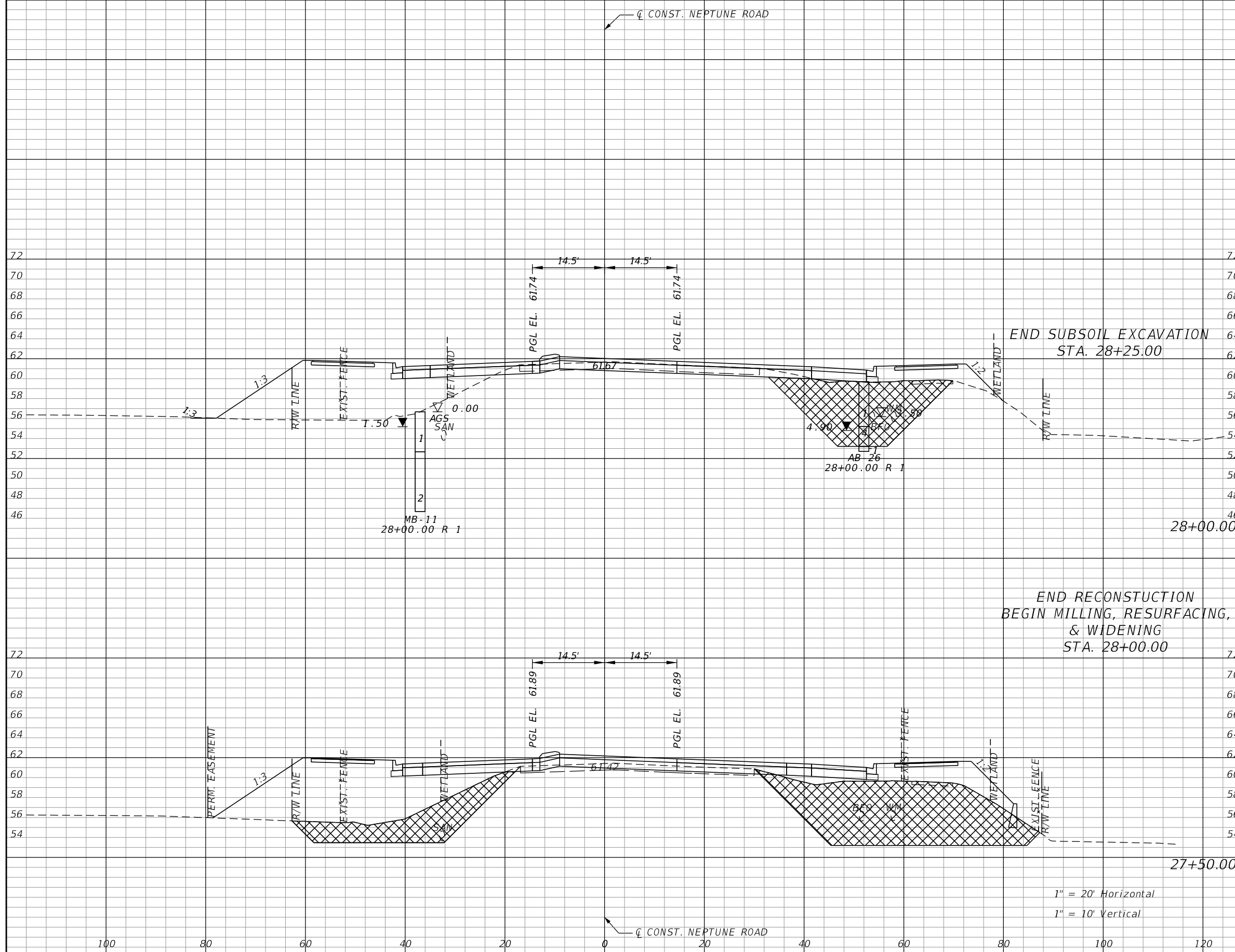
DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

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KISSIMMEE, FLORIDA 34741-5488
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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET NO.
118

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
153.5	284.3	47.1	65.8	381.8	752.3
371.1	438.9	24.0	31.9	648.2	977.7

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

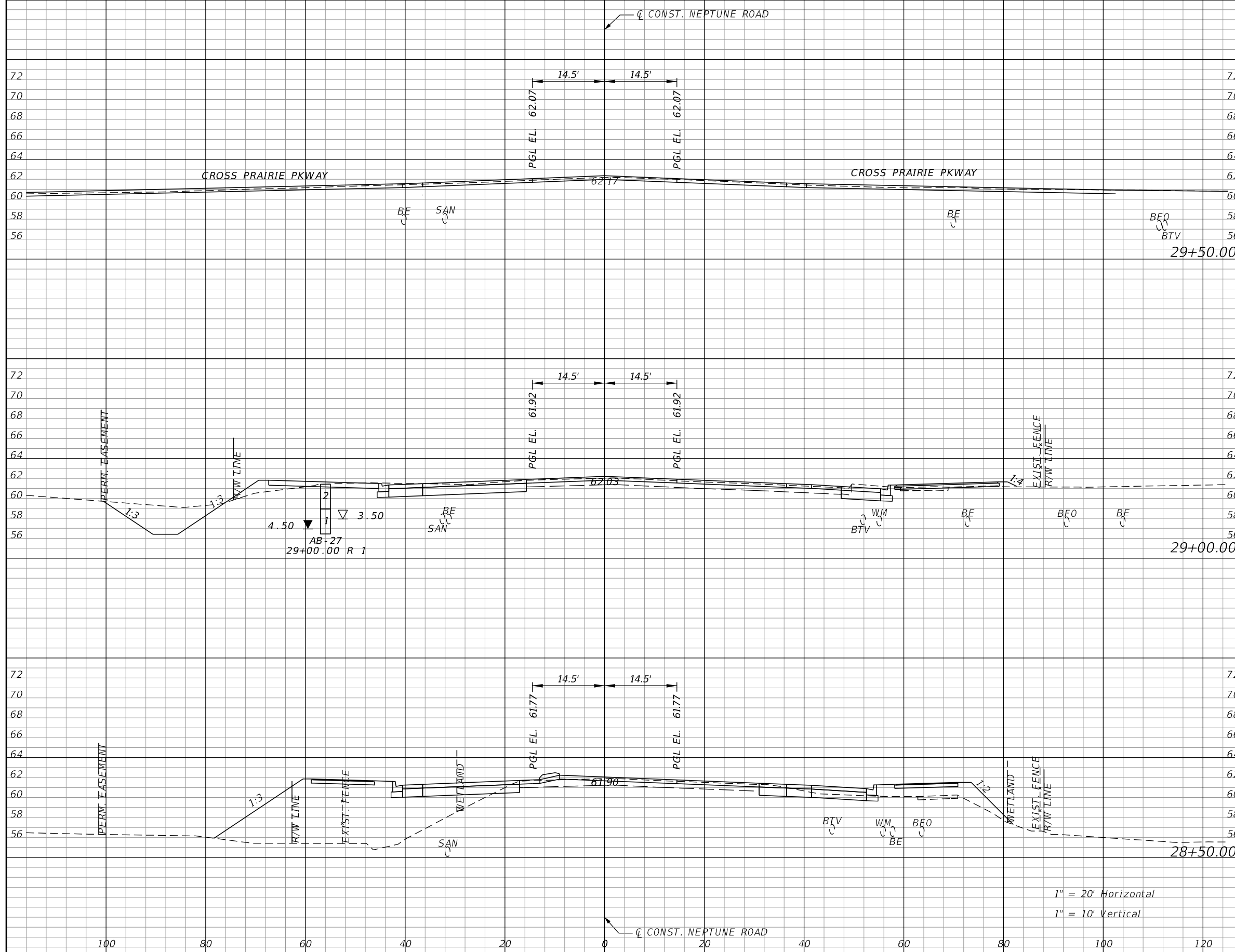
DONGHANG ZHAO, P.E.
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GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

OSCEOLA COUNTY TRANSIT
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CROSS SECTIONS
NEPTUNE ROAD

SHEET NO.
119

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	61.5	122.3	0.0	9.5
0.0	0.0	70.6	91.7	10.3	238.6
0.0	142.1	28.4	69.9	247.4	582.6

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

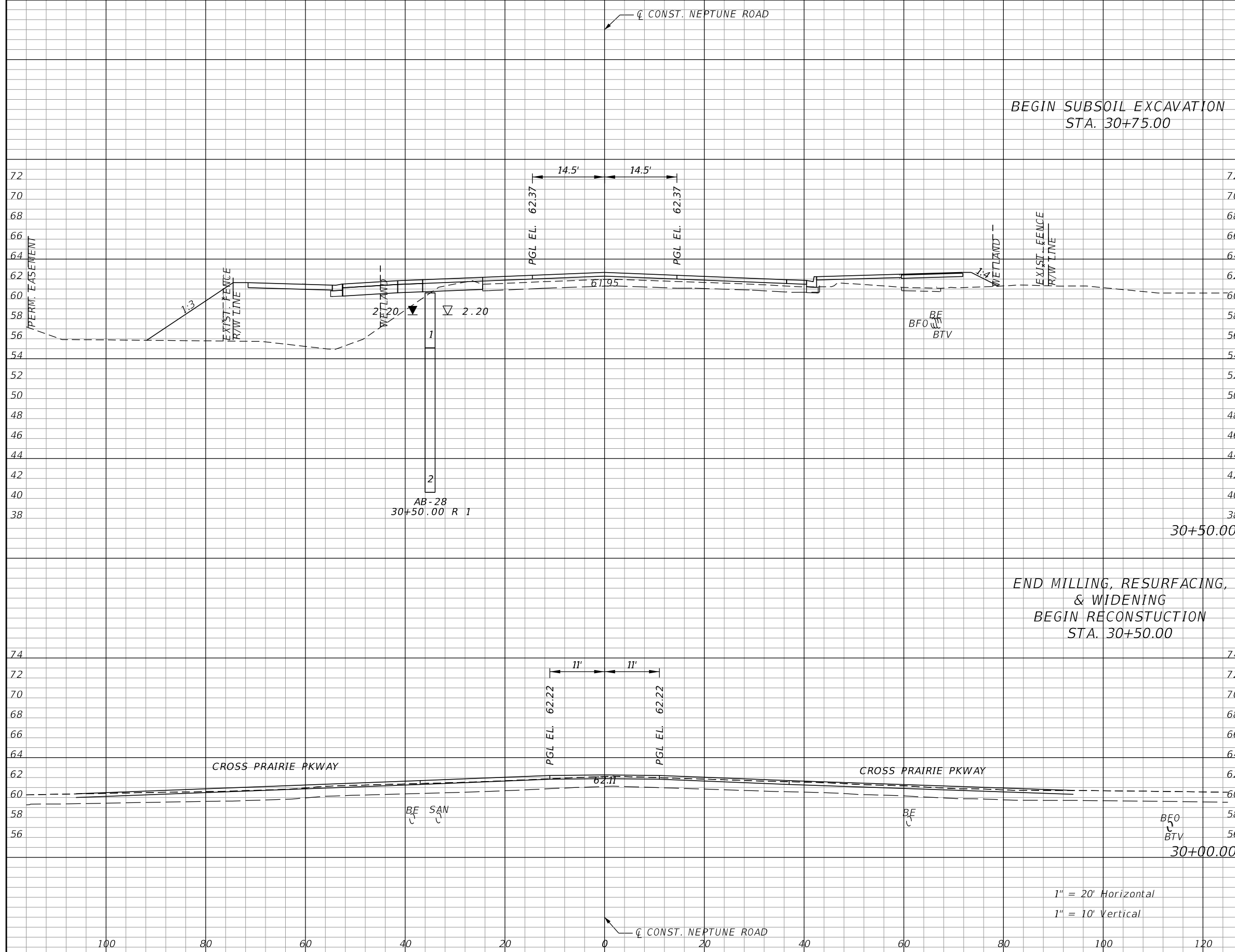


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AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
120


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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	7.5	6.9	272.5	252.3
0.0	0.0	0.0	0.0	0.0	0.0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

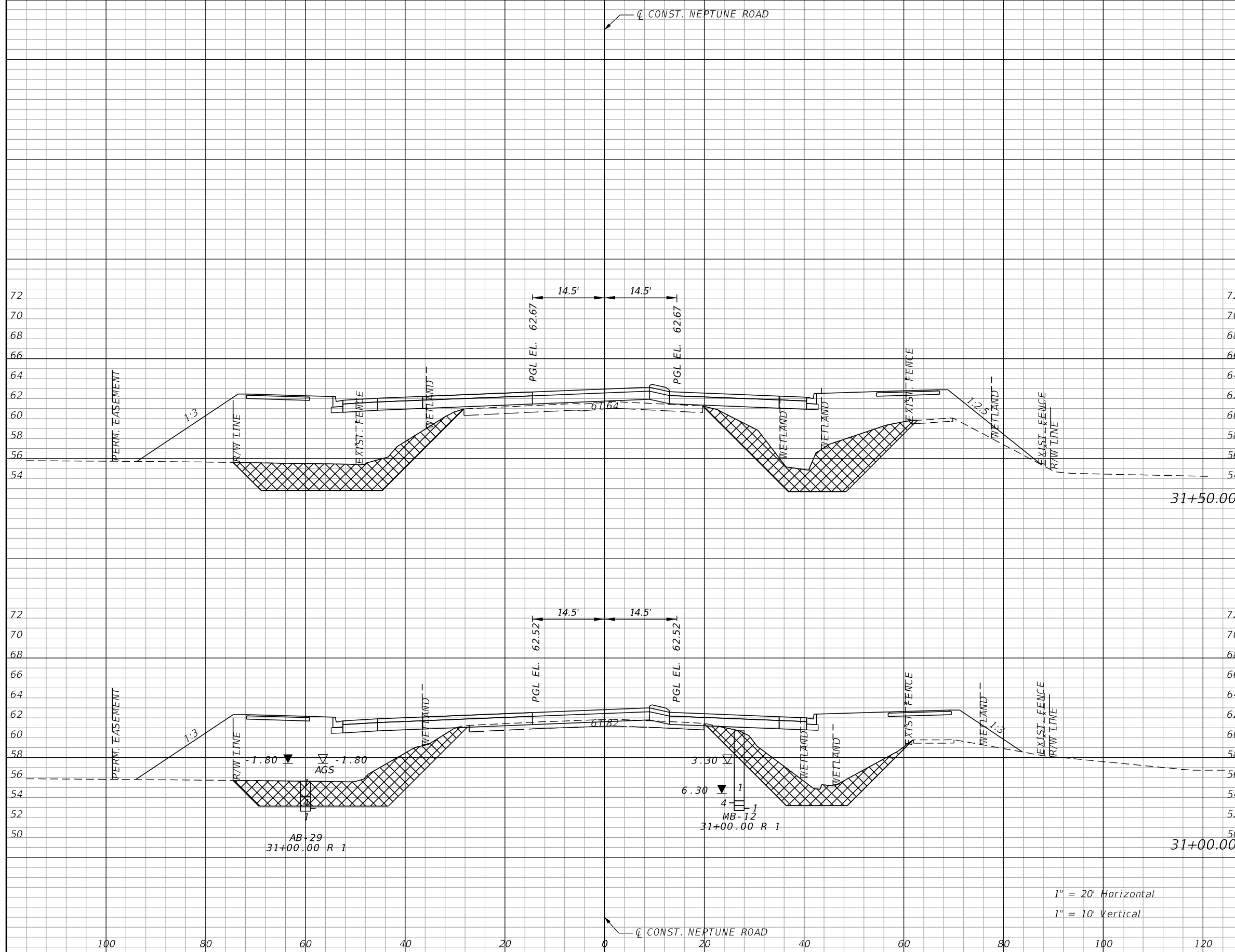
DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

 OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
121

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
221.9	285.1	0.0	9.3	701.0	1155.9
86.0	79.6	10.0	16.2	547.4	759.1

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

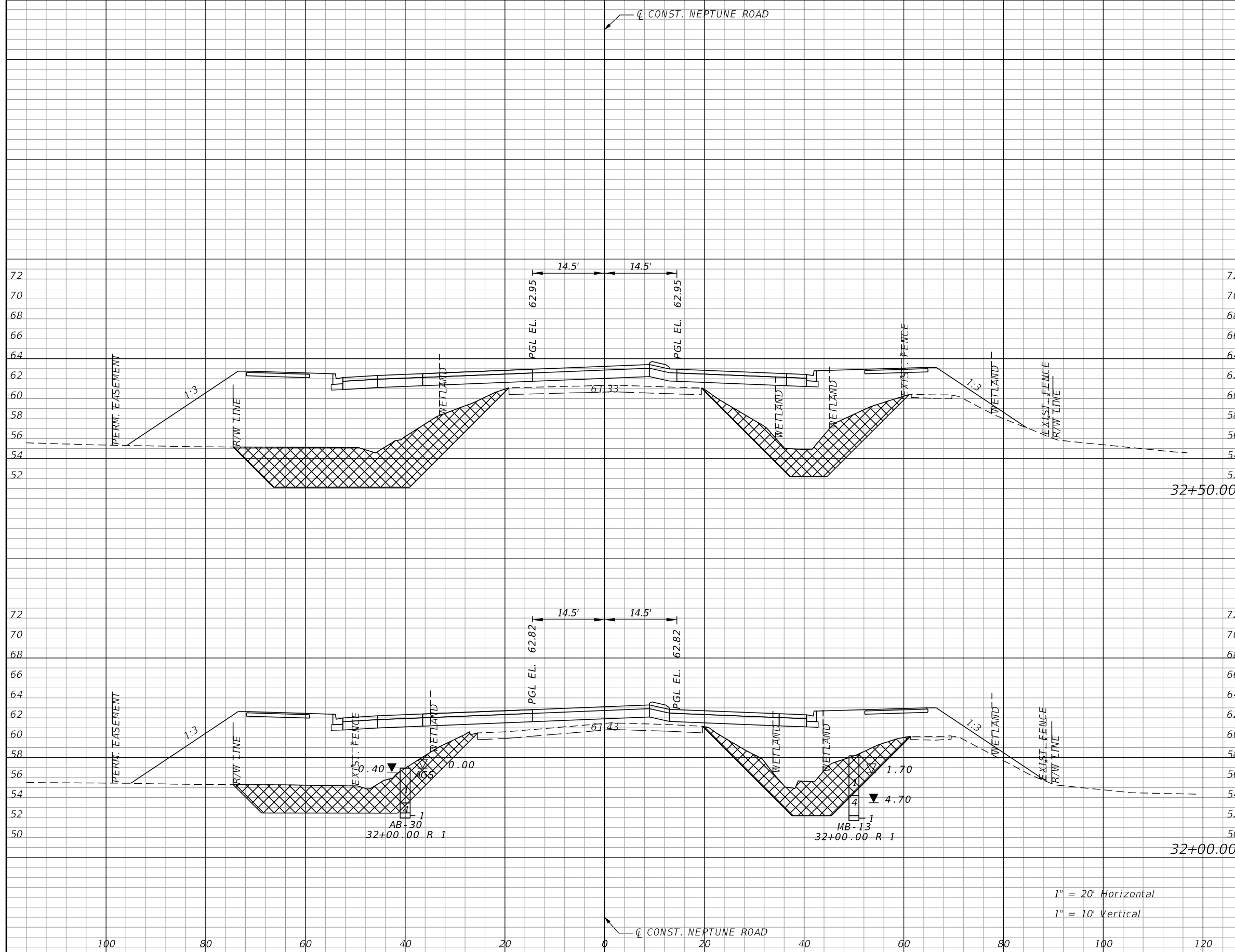


OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
122

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
279.2	469.5	0.0	0.0	866.9	1516.2
279.2	469.5	0.0	0.0	866.9	1516.2

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

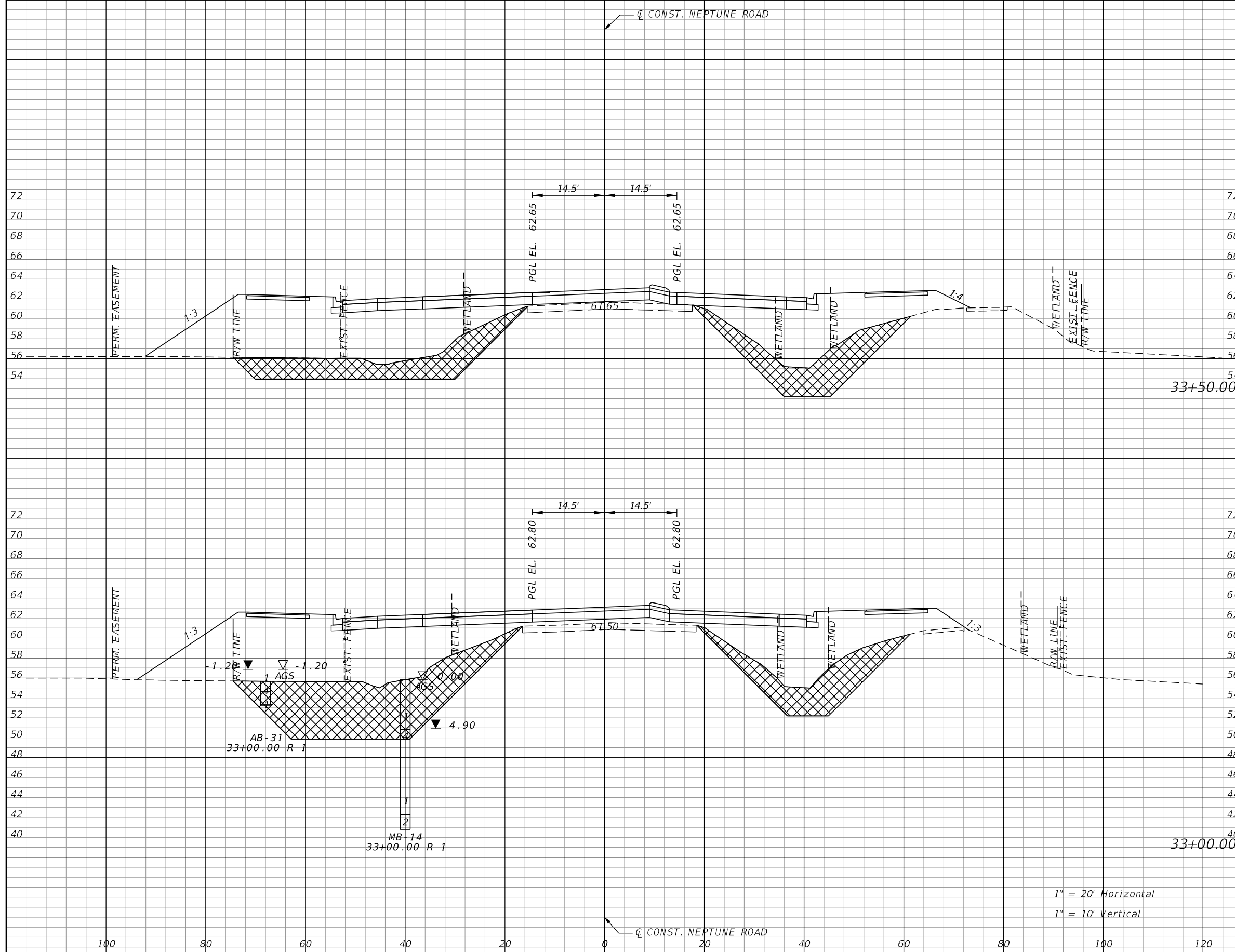


OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
123

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
231.3	534.4	0.1	0.1	718.9	1474.1
345.8	578.7	0.0	0.0	866.9	1611.1

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

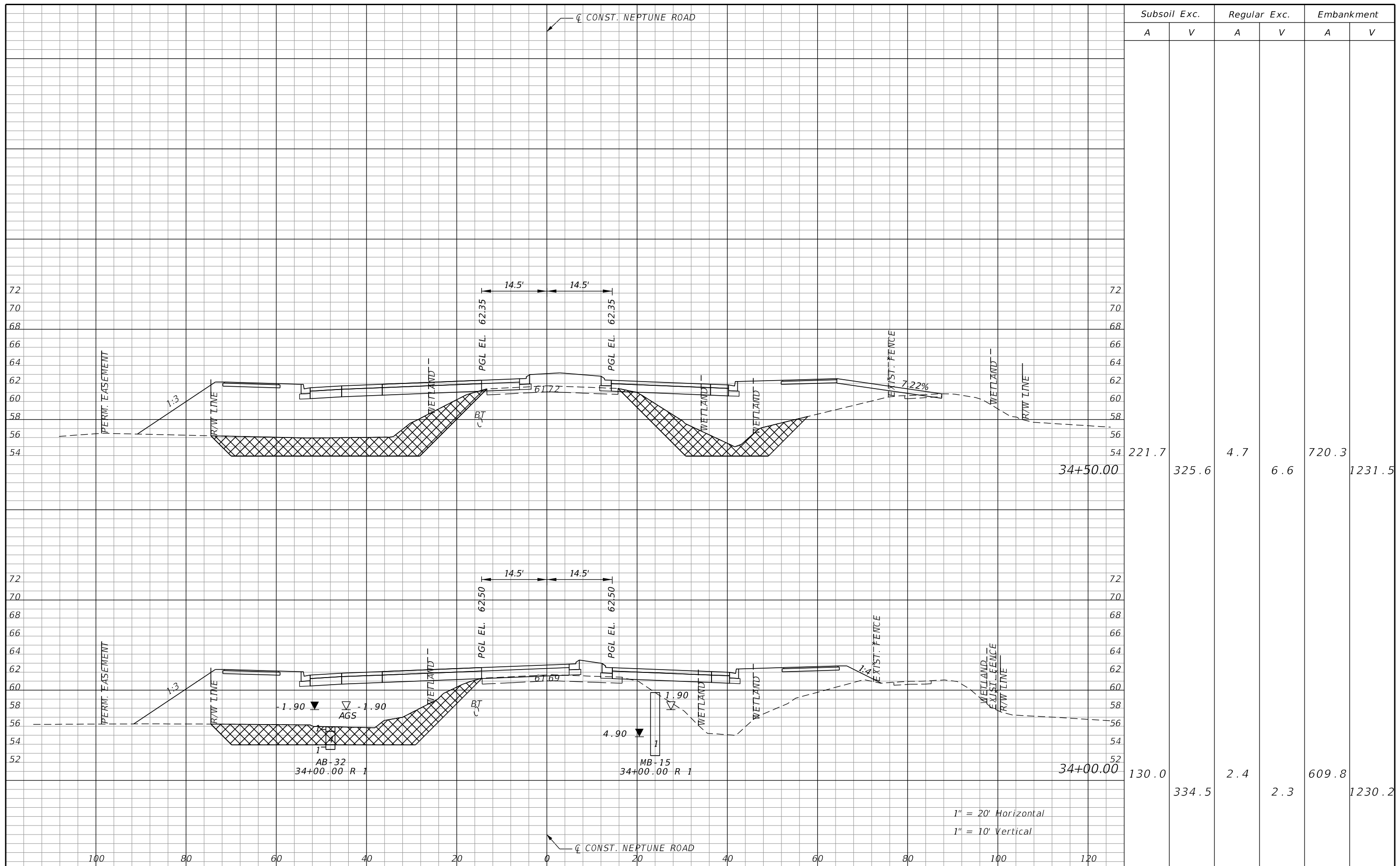


OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
124

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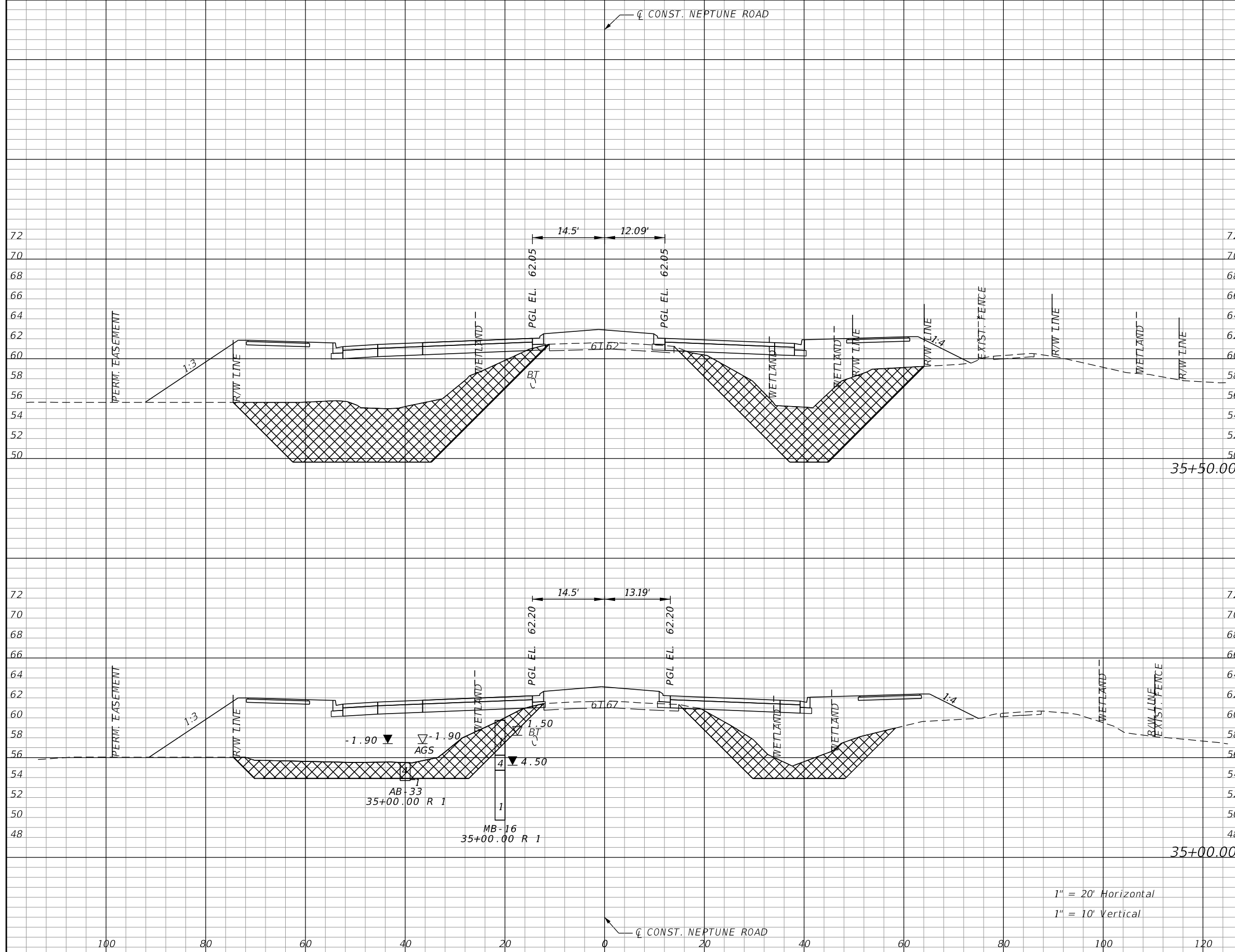
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
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618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

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KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

CROSS SECTIONS
NEPTUNE ROAD

SHEET
NO.
125




Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
474.6	642.7	3.7	6.6	974.7	1571.8
219.5	408.5	3.4	7.5	722.8	1336.2

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

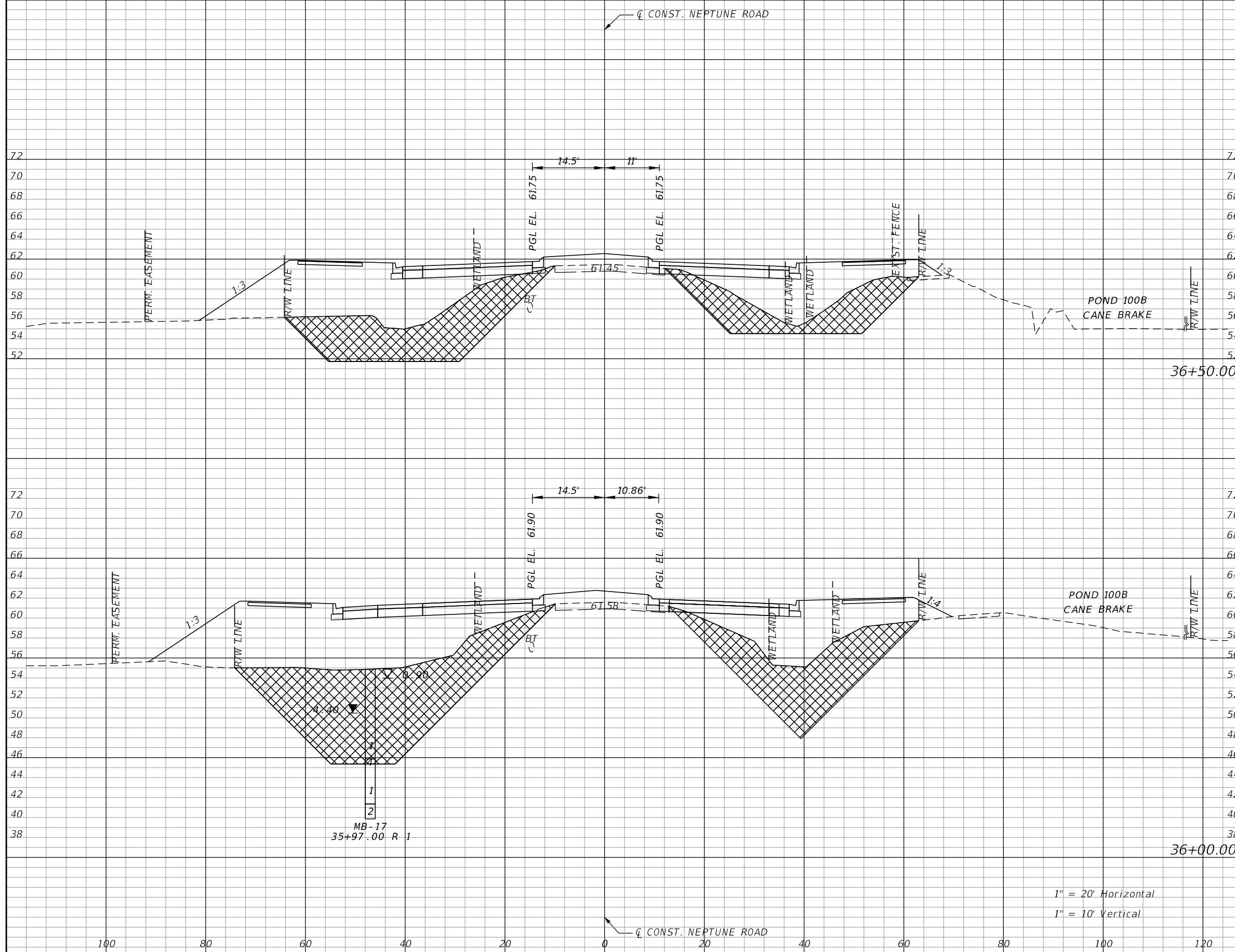


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1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
126

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
326.0	824.7	5.1	8.4	703.0	1630.8
564.7	962.3	4.0	7.1	1058.3	1882.4

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

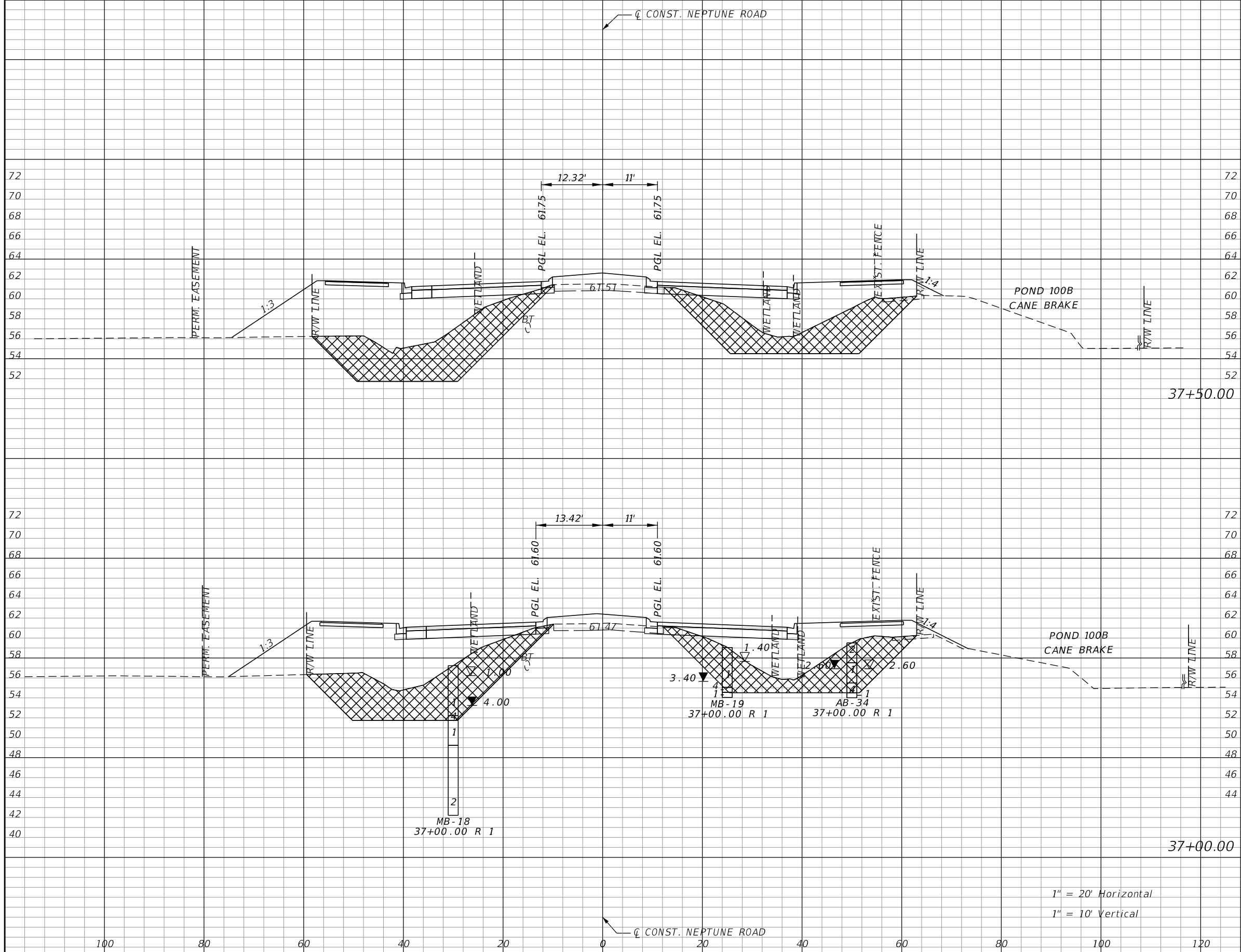


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1 COURTHOUSE SQUARE, SUITE 3100
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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
127

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
301.6	566.1	8.0	16.3	636.1	1171.7
309.8	588.7	9.6	13.6	629.4	1233.7

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
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618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

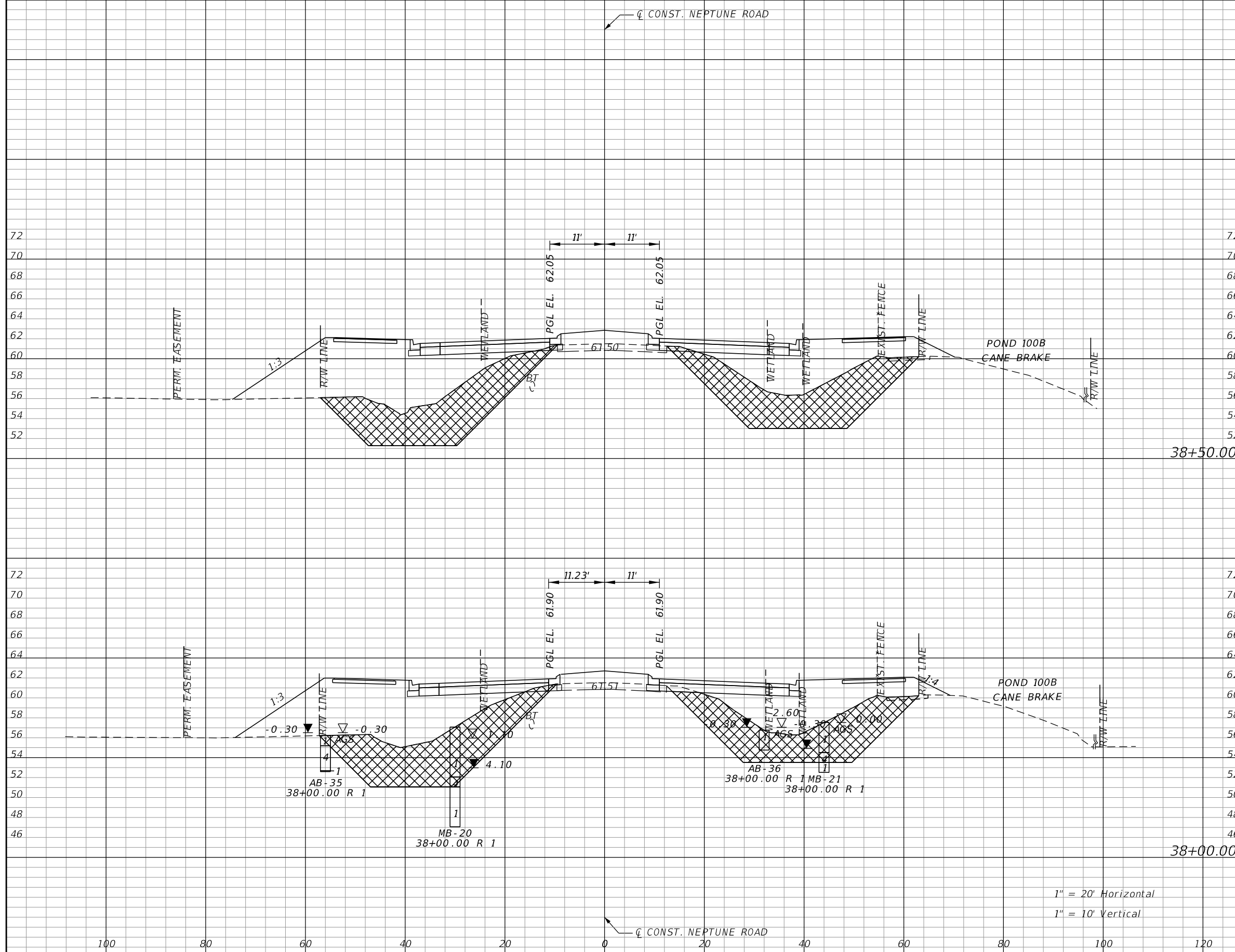


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1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
128

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
341.3	629.7	5.5	12.6	710.3	1289.6
338.8	593.0	8.1	14.9	682.5	1221.0

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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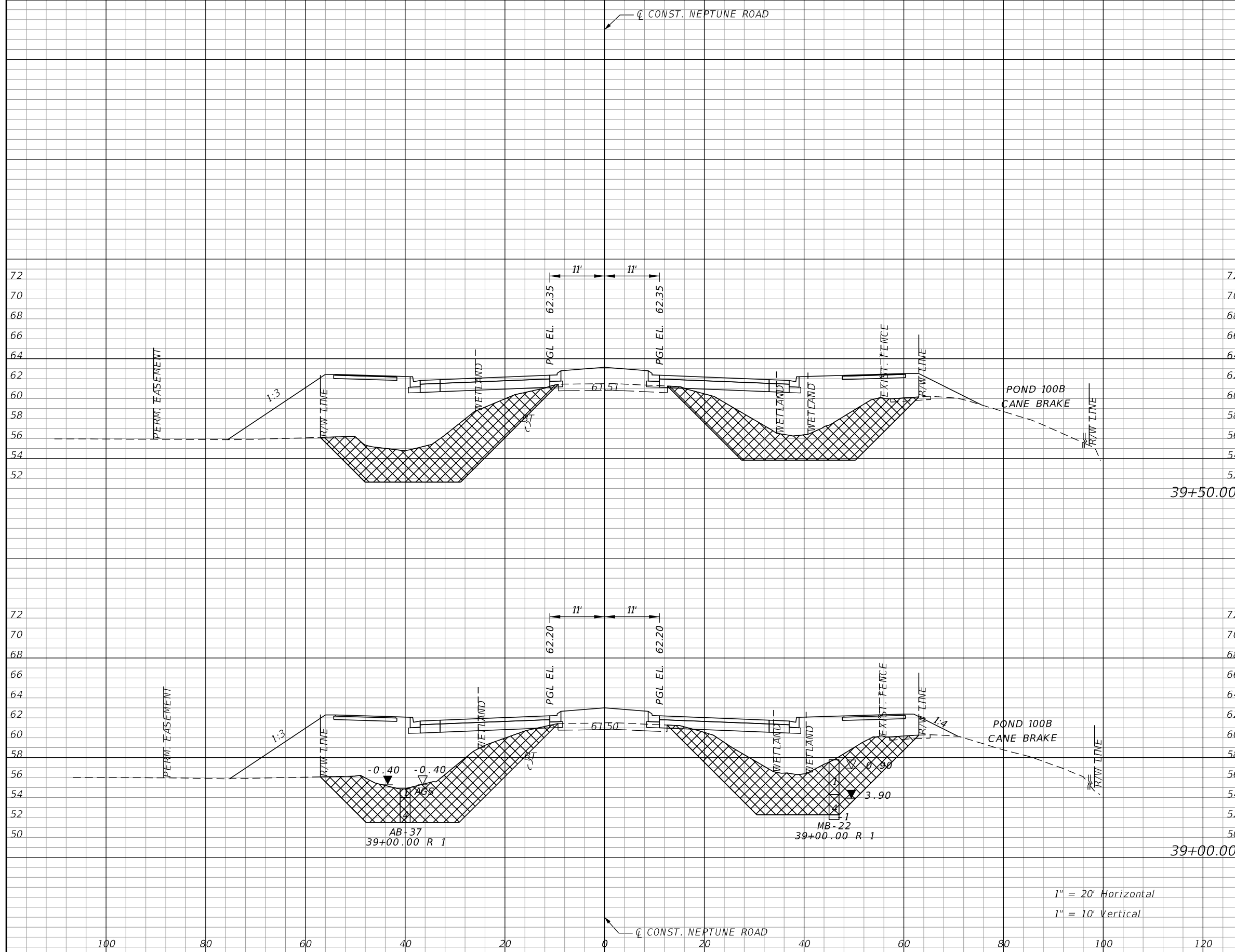


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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
129

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
316.4	620.6	1.7	5.0	730.2	1359.7
353.8	643.6	3.7	8.5	738.2	1341.2

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
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GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

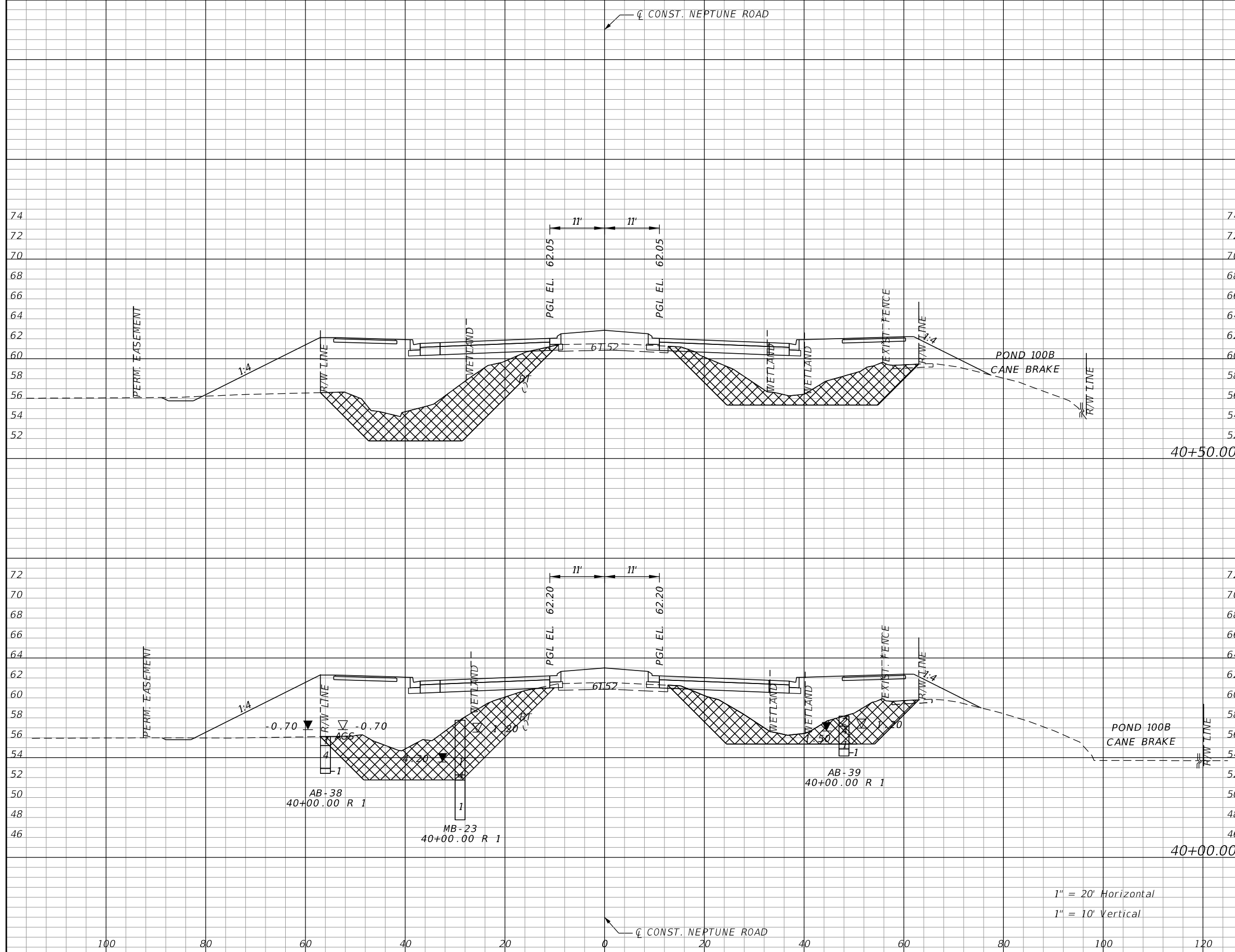


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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
130

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
263.7	501.7	8.2	11.9	669.0	1264.3
40+50.00					
278.1	550.5	4.7	5.9	696.4	1321.0
40+00.00					

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

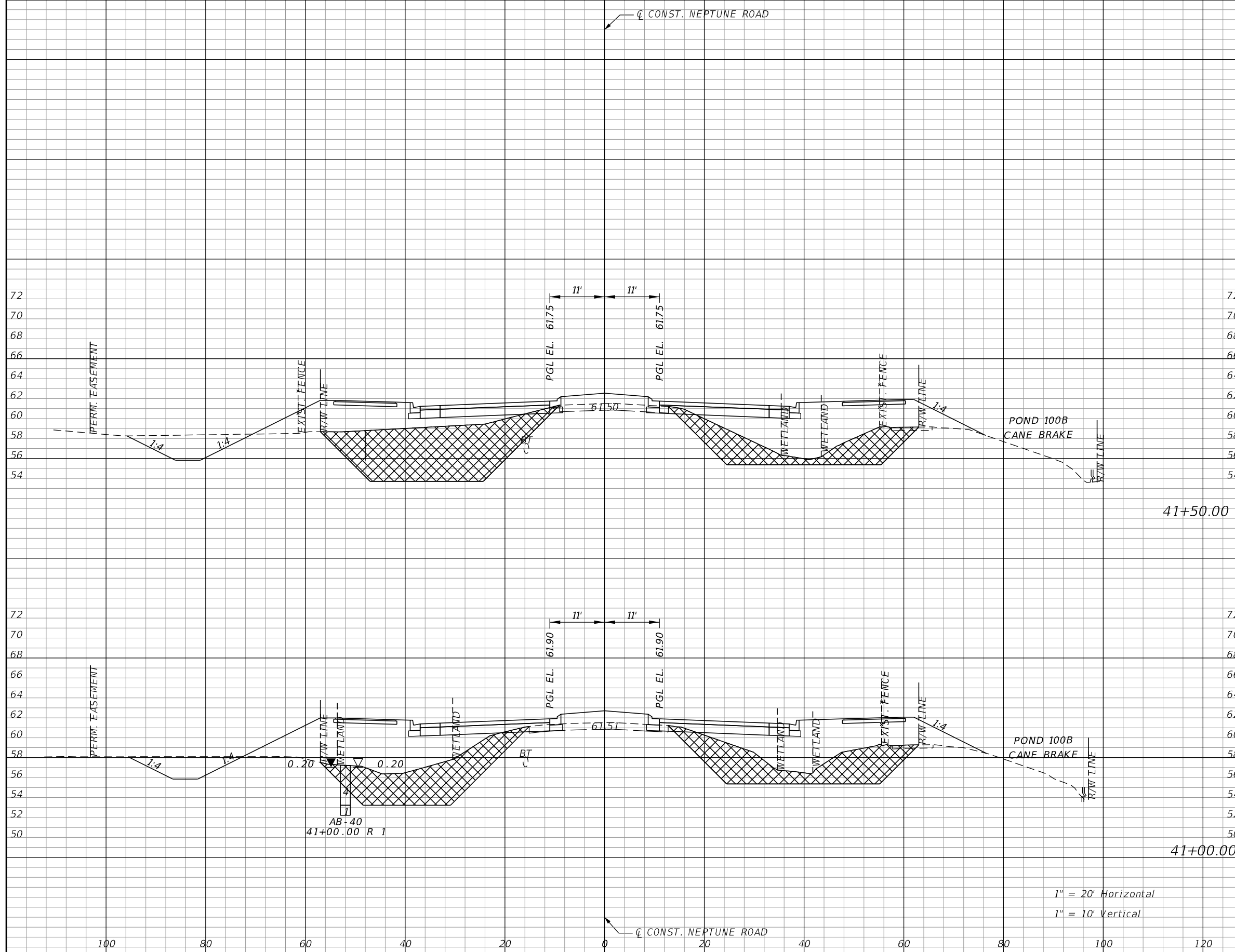


OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE: (407) 742-0662 FAX: (407) 742-0600

**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
131

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.




Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
289.5	490.6	47.1	82.1	537.1	999.2
41+50.00					
240.3	466.7	41.6	46.1	542.0	1121.3
41+00.00					

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

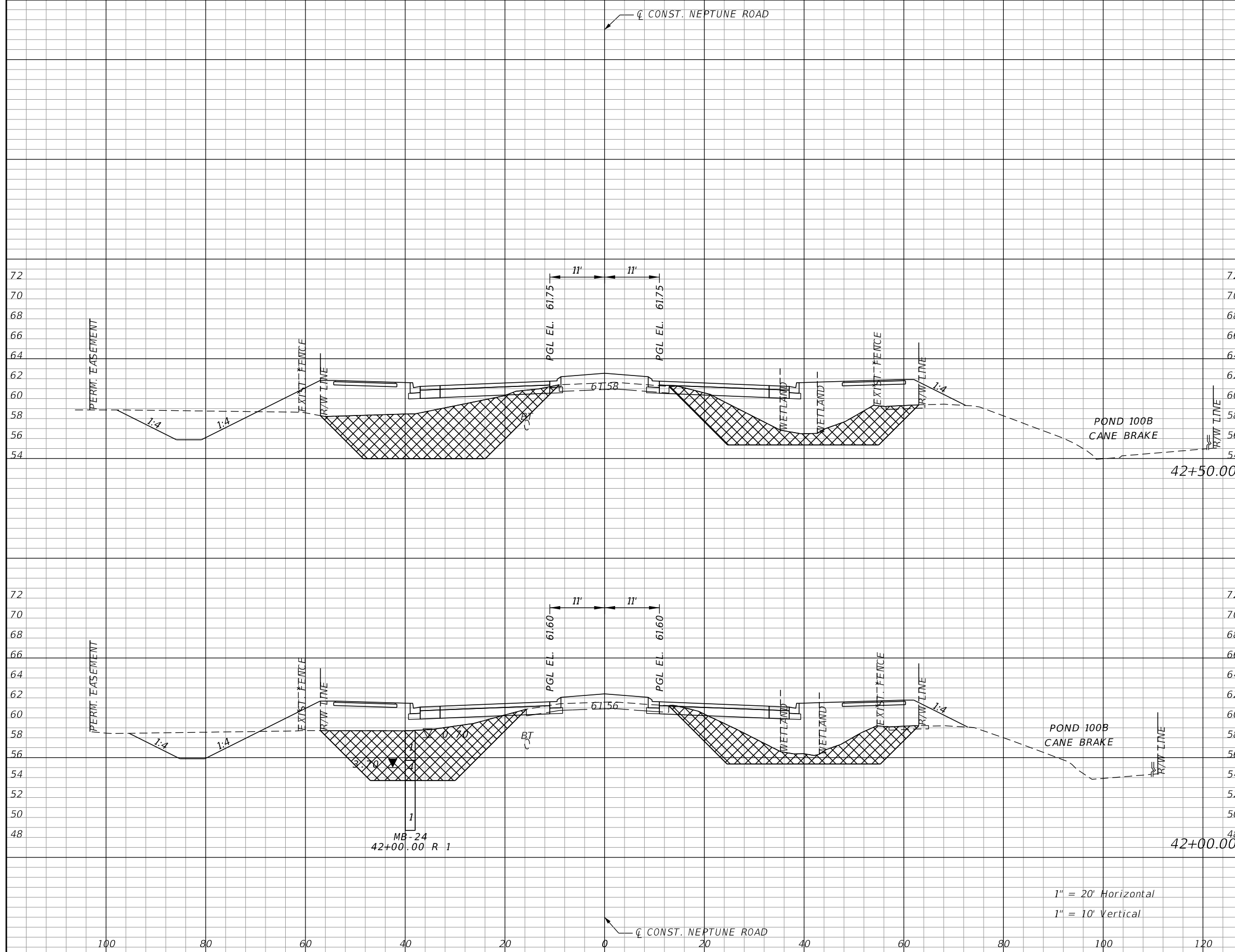
DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

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1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET NO.
132

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.




Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
296.3	511.4	61.2	108.7	528.7	929.2
256.0	505.1	56.2	95.6	474.8	937.0

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

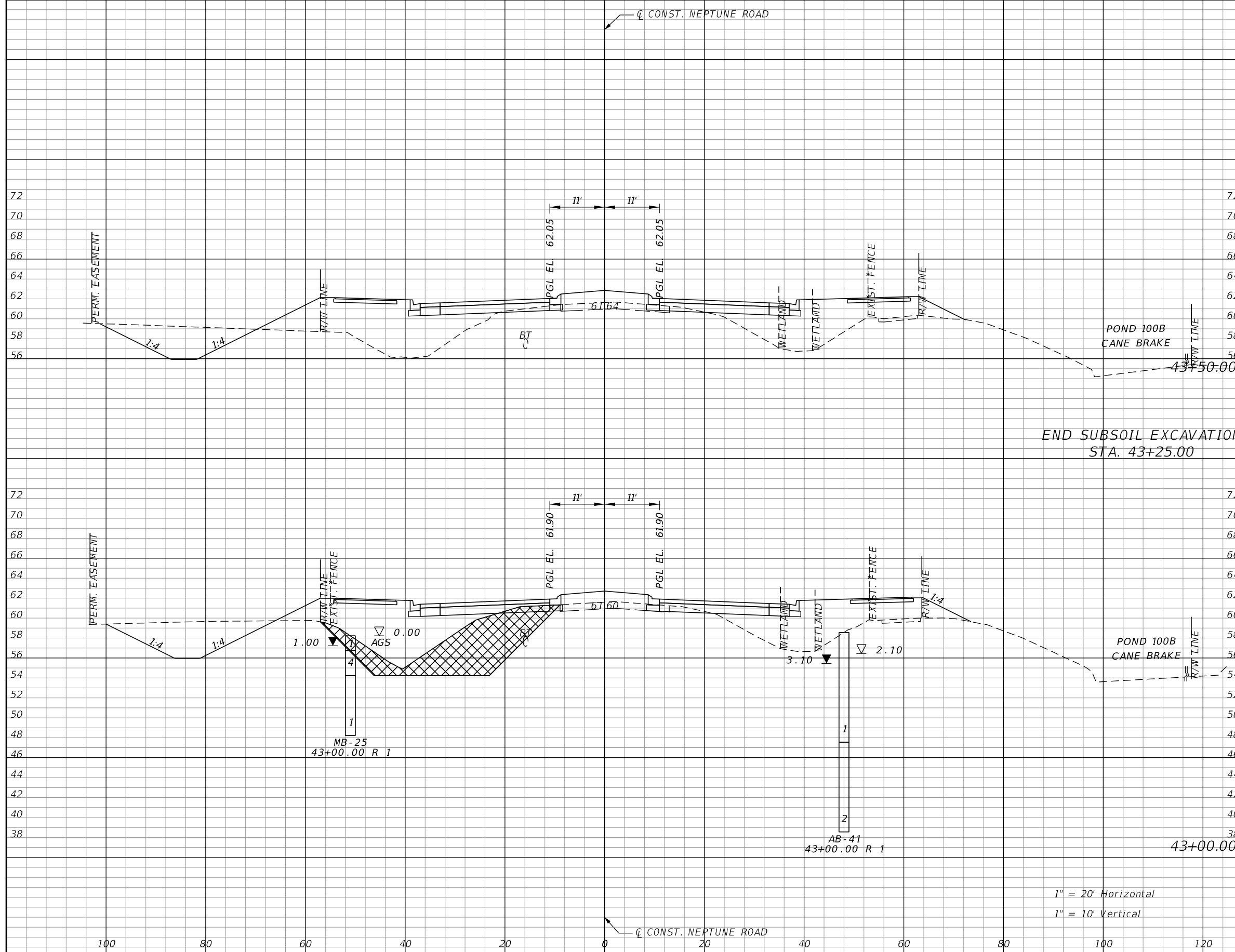


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AND TRANSPORTATION
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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
133

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	120.9	69.0	141.1	270.7	610.6
130.6	395.3	83.4	133.9	388.8	849.6

END SUBSOIL EXCAVATION
STA. 43+25.00

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

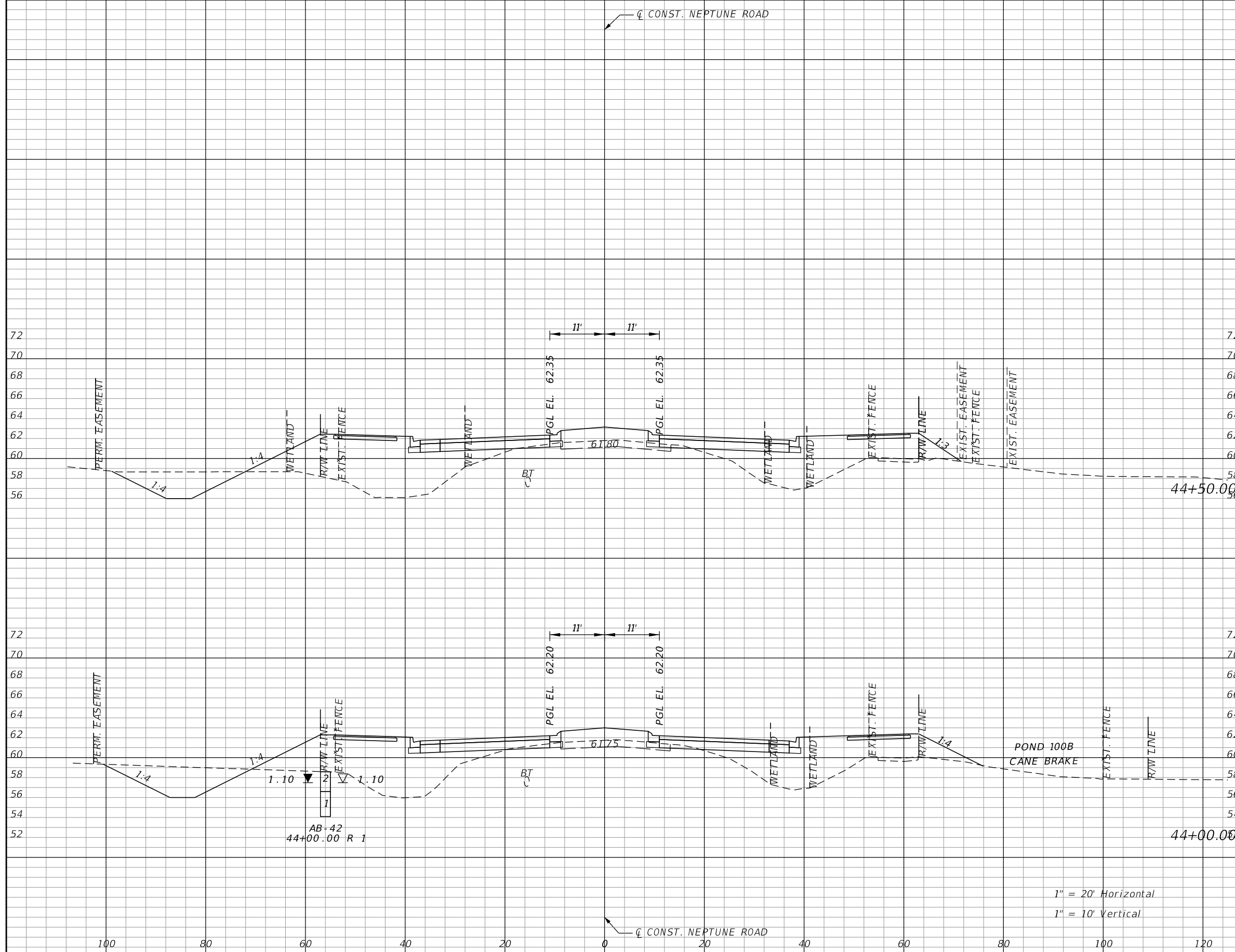


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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
134

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	46.8	99.1	316.4	562.1
0.0	0.0	60.2	119.6	290.7	519.8

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

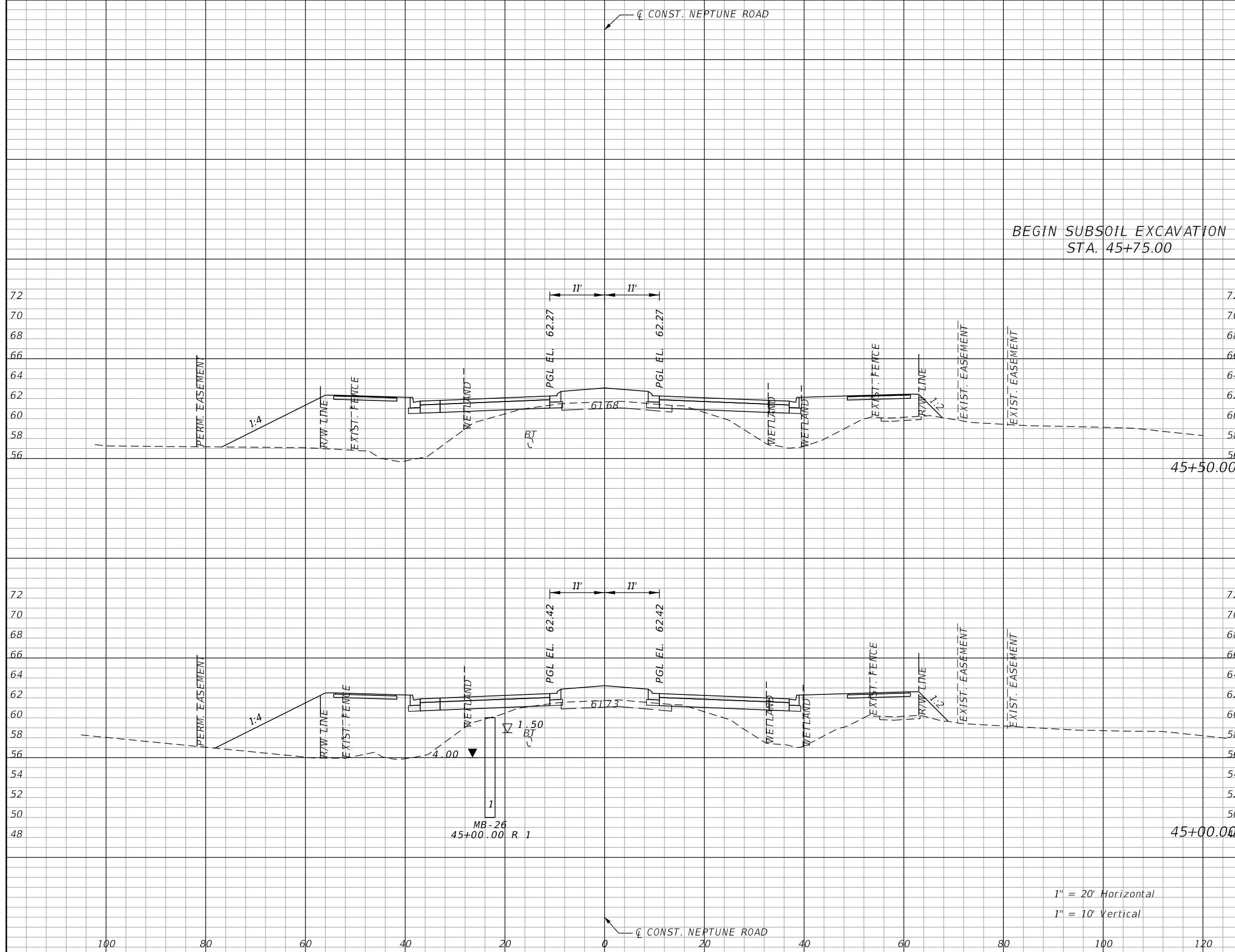


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KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
135

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	4.6	6.7	332.6	650.7
0.0	0.0	2.6	45.7	370.2	635.7

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

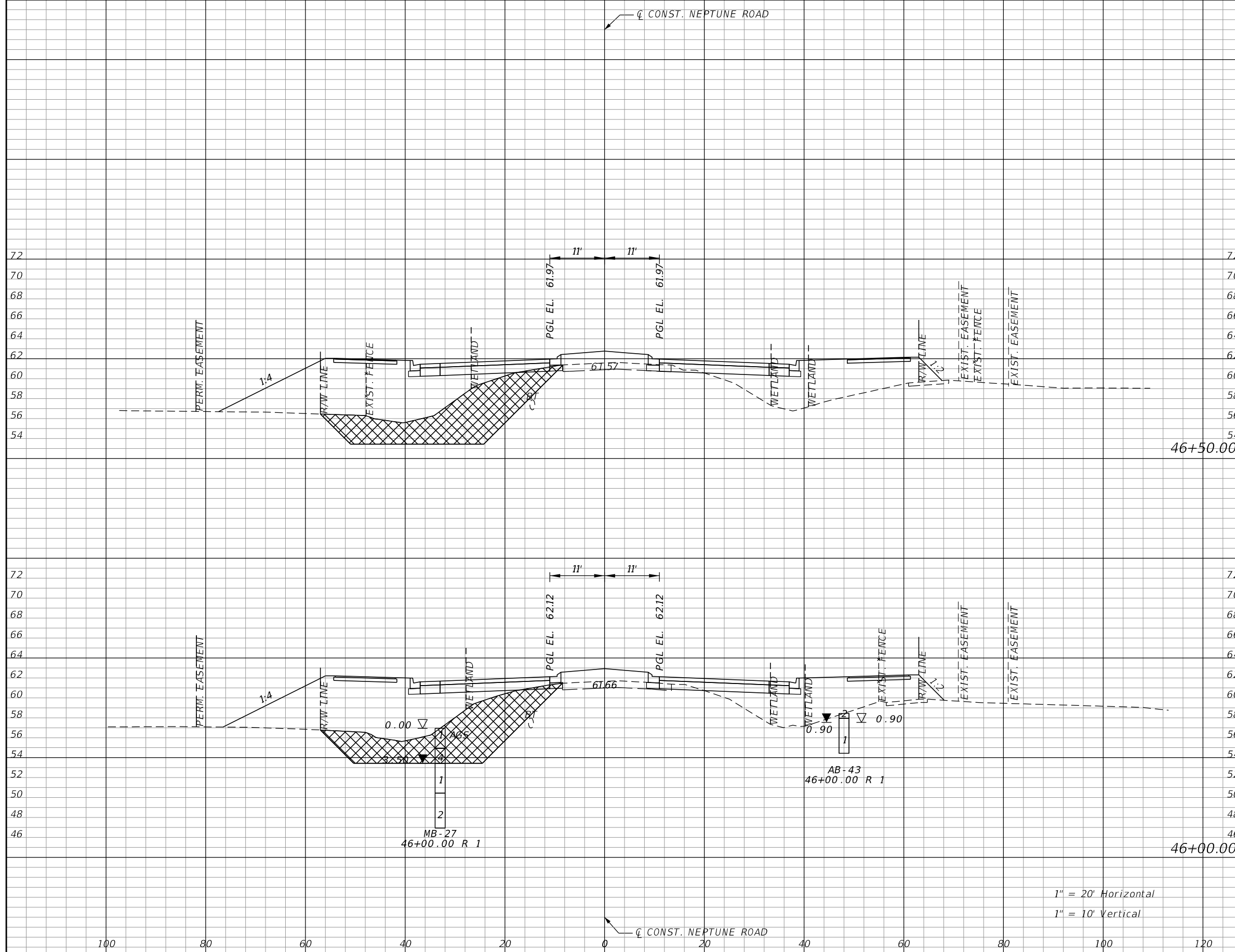


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1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
136

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
148.7	278.5	7.7	14.1	489.3	902.7
152.1	140.8	7.5	11.2	485.6	757.6

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

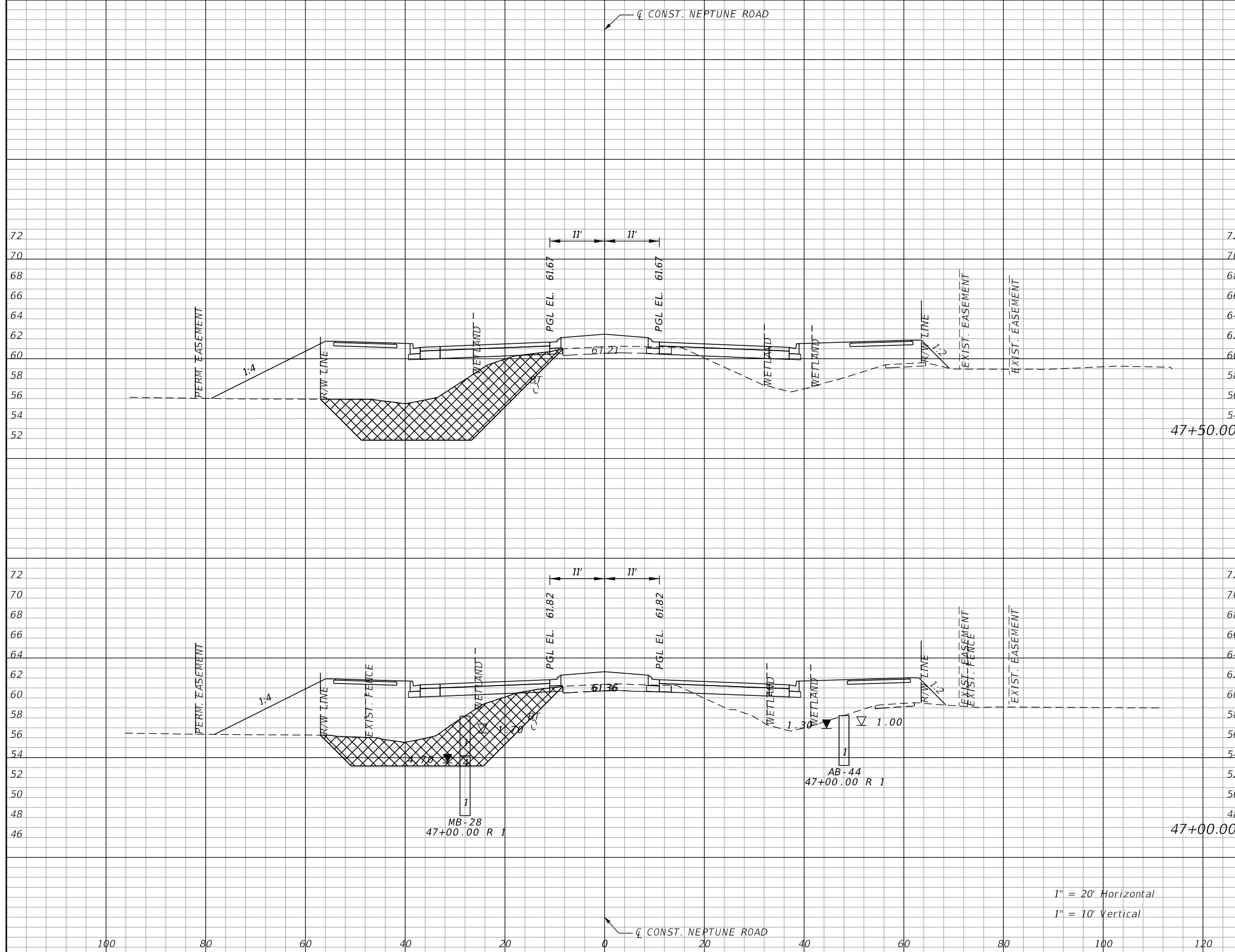


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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
137

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
180.7	307.6	8.2	14.8	526.6	948.9
151.5	278.0	7.8	14.4	498.2	914.4

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

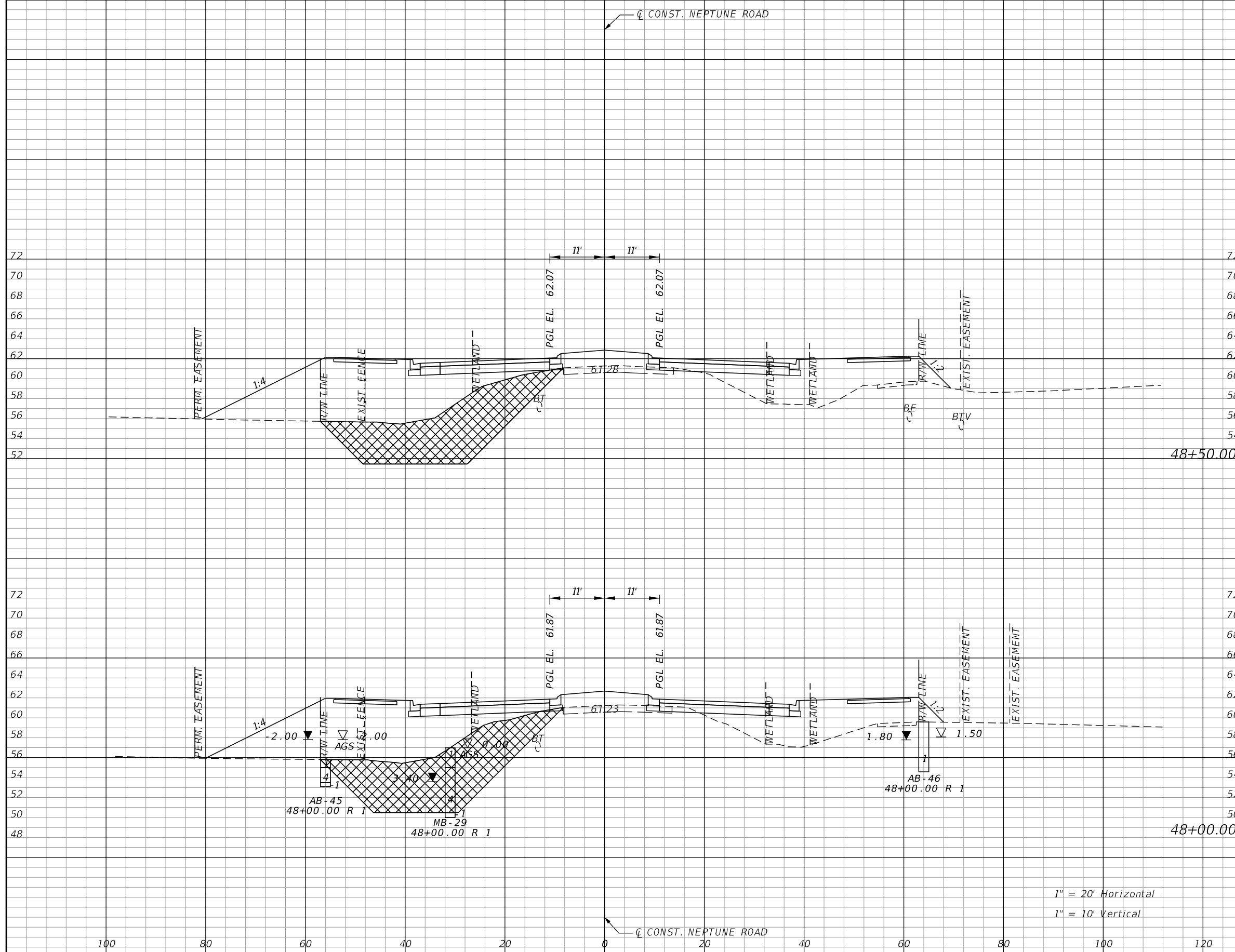


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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
138

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
188.6	364.7	2.5	7.4	576.6	1063.2
205.3	357.4	5.5	12.7	571.7	1016.9

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

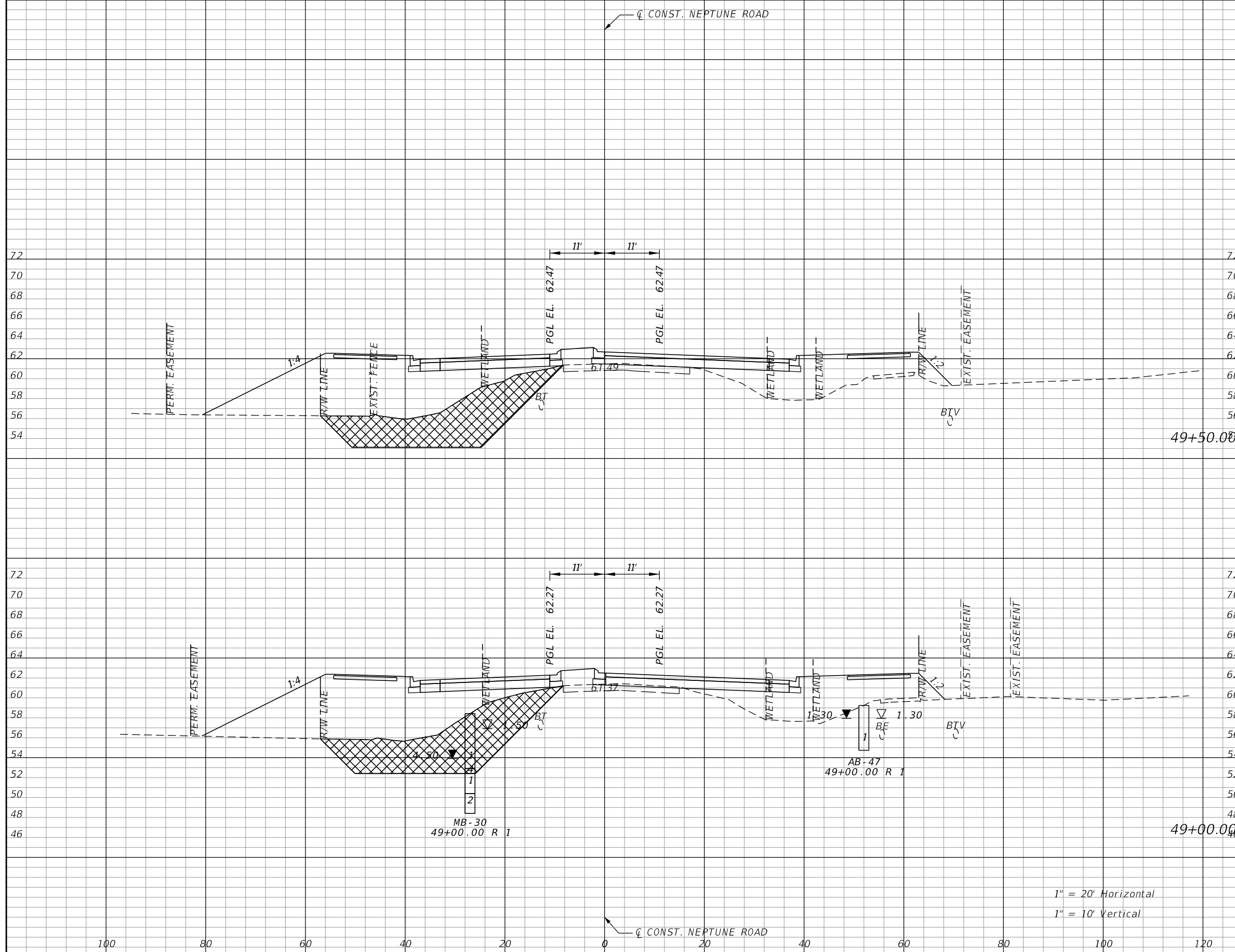


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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
139

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
155.1	300.3	0.9	3.1	519.6	985.6
169.2	331.3	2.5	4.6	544.8	1038.3

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

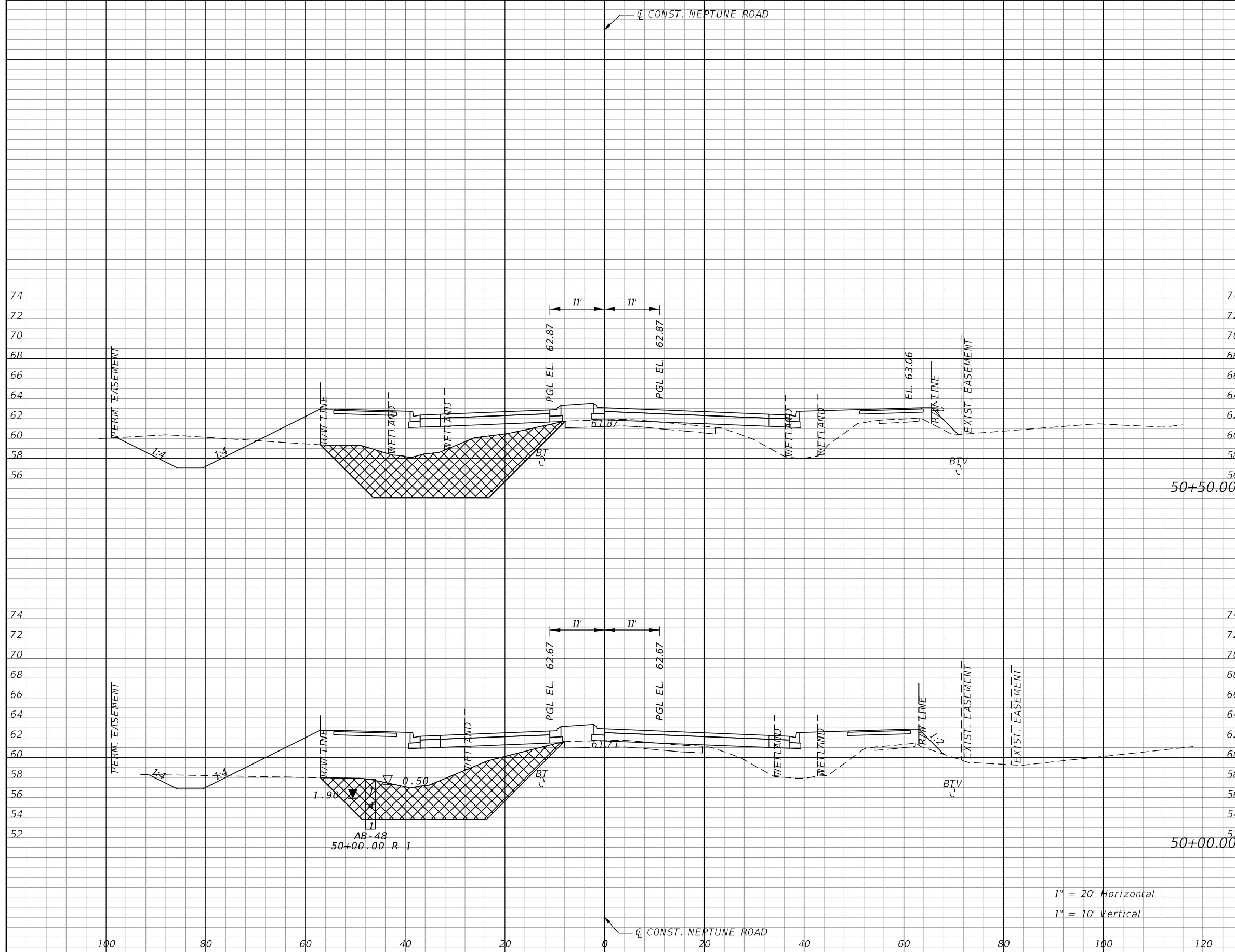


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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
140

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
184.5	323.0	54.2	64.3	411.4	803.1
164.3	295.7	15.2	14.9	455.9	903.2

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

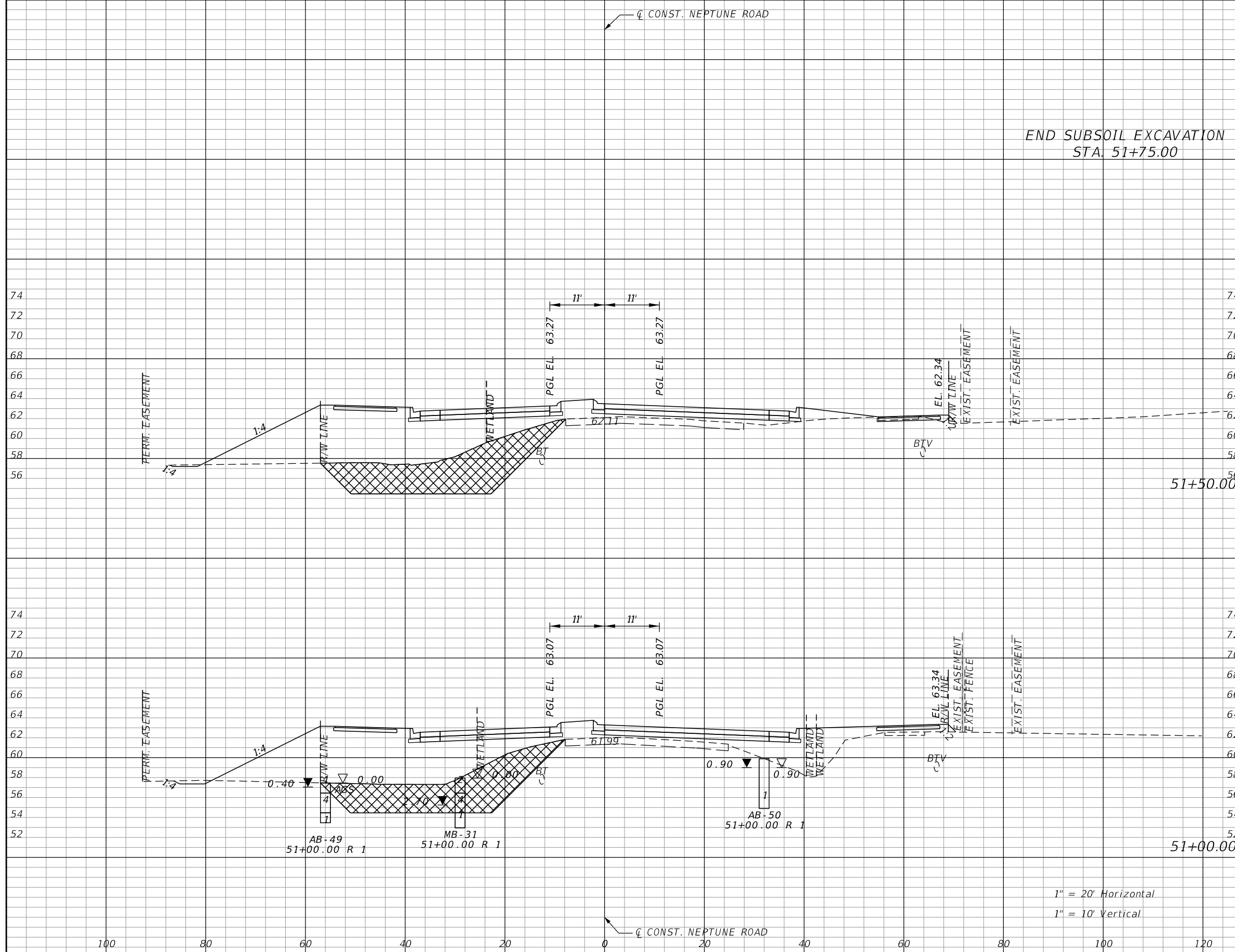


OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

CROSS SECTIONS
NEPTUNE ROAD

SHEET NO.
141

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
148.2	268.1	5.4	10.1	428.8	828.4
141.4	301.8	5.4	55.2	465.9	812.4

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

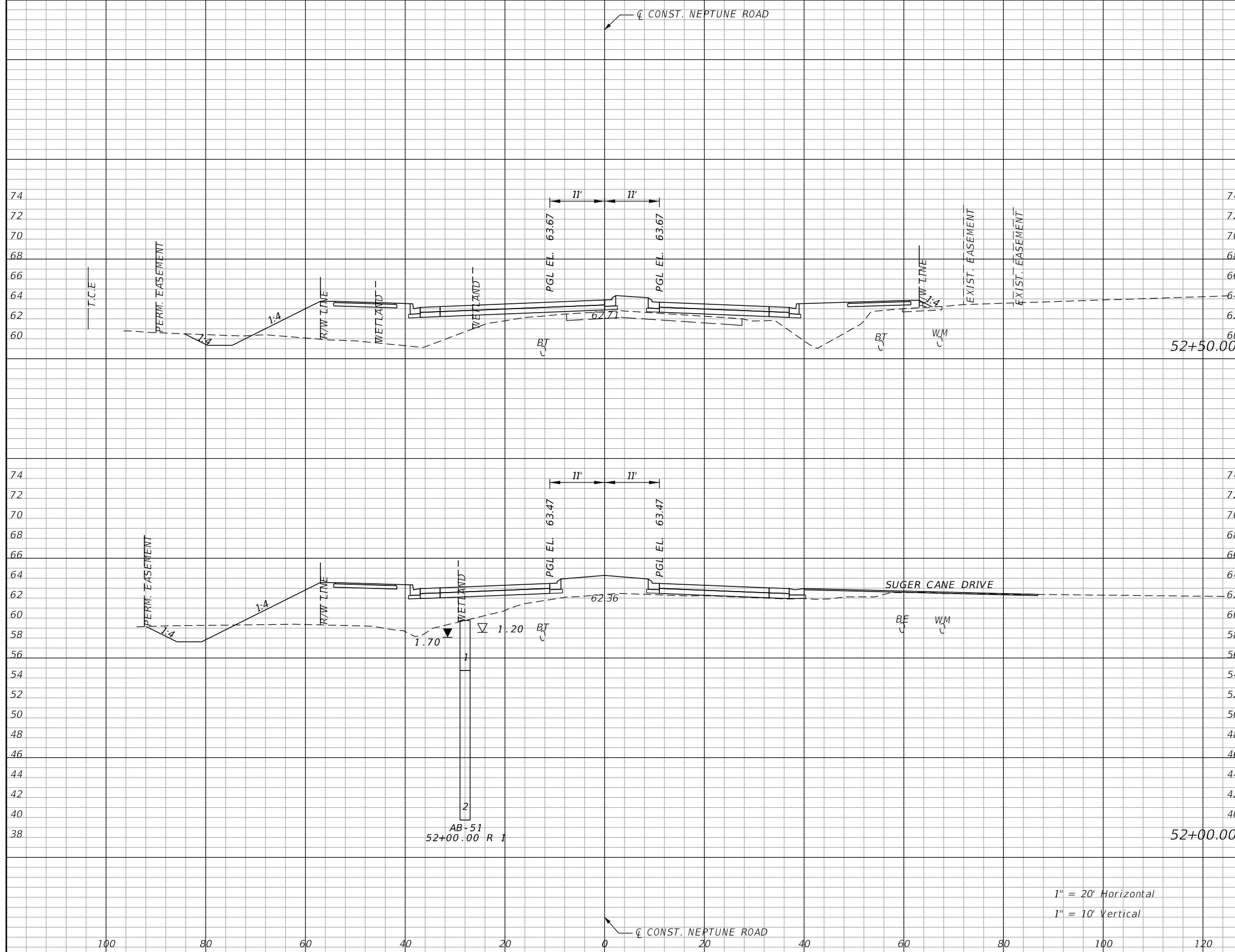


OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
142

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	9.4	27.2	207.0	387.7
0.0	0.0	20.0	23.5	211.7	455.8

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

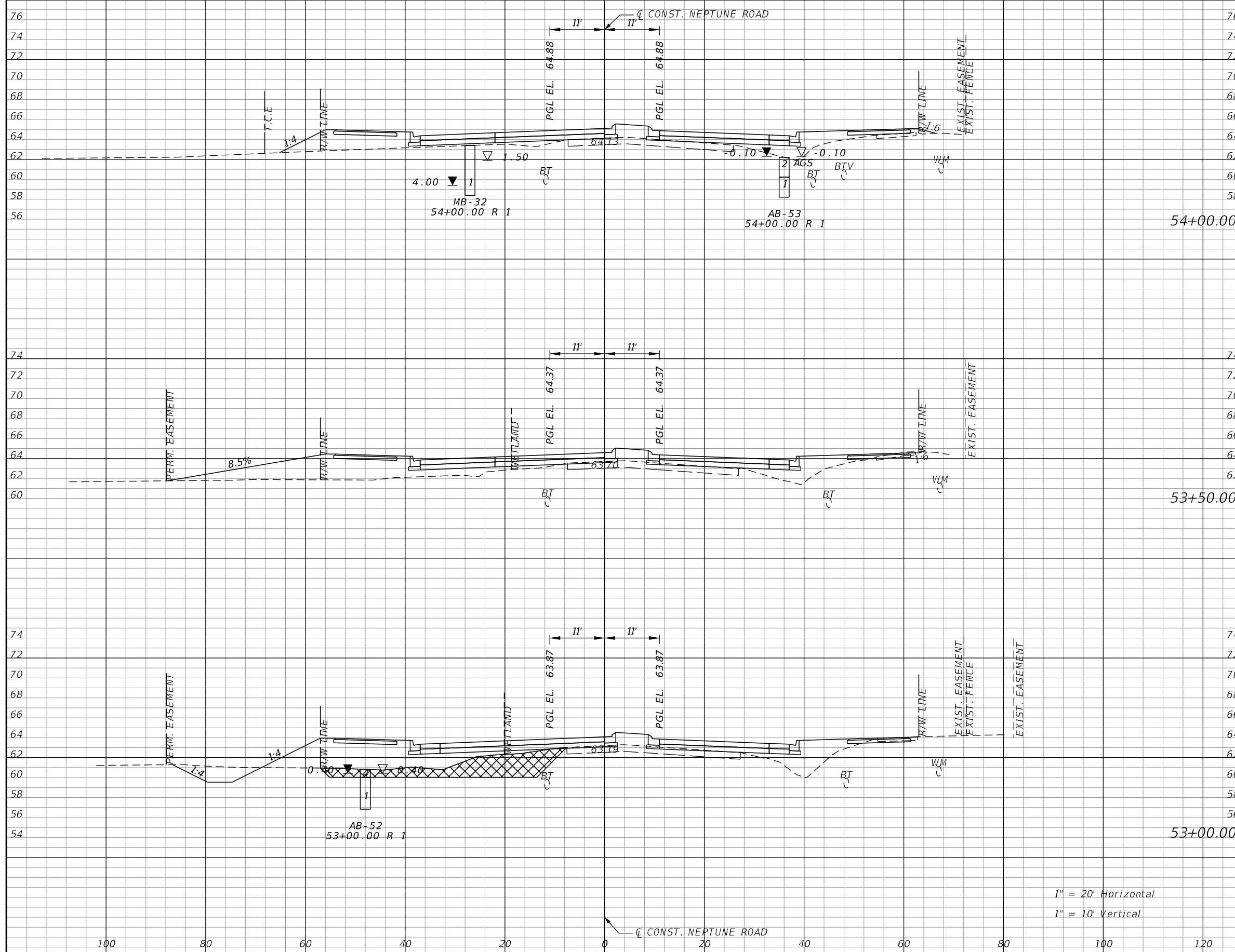


OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
143

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	0.6	5.5	79.4	188.2
0.0	61.0	5.3	27.7	123.9	293.1
65.9	61.0	24.6	31.5	192.7	370.1

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

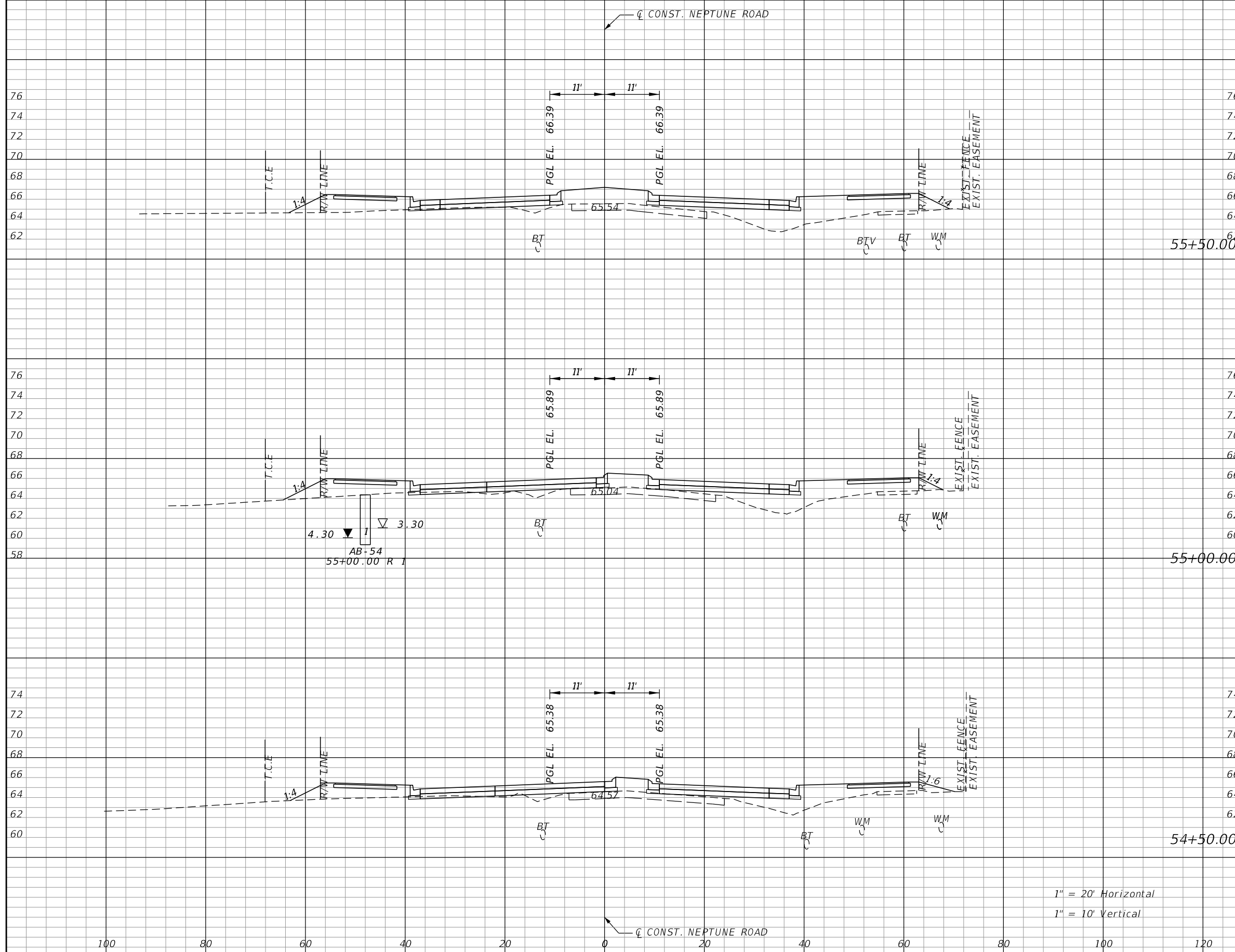


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1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET NO.
144

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	1.7	4.0	138.1	224.4
0.0	0.0	2.6	5.1	104.3	172.1
0.0	0.0	2.9	3.2	81.6	149.1

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

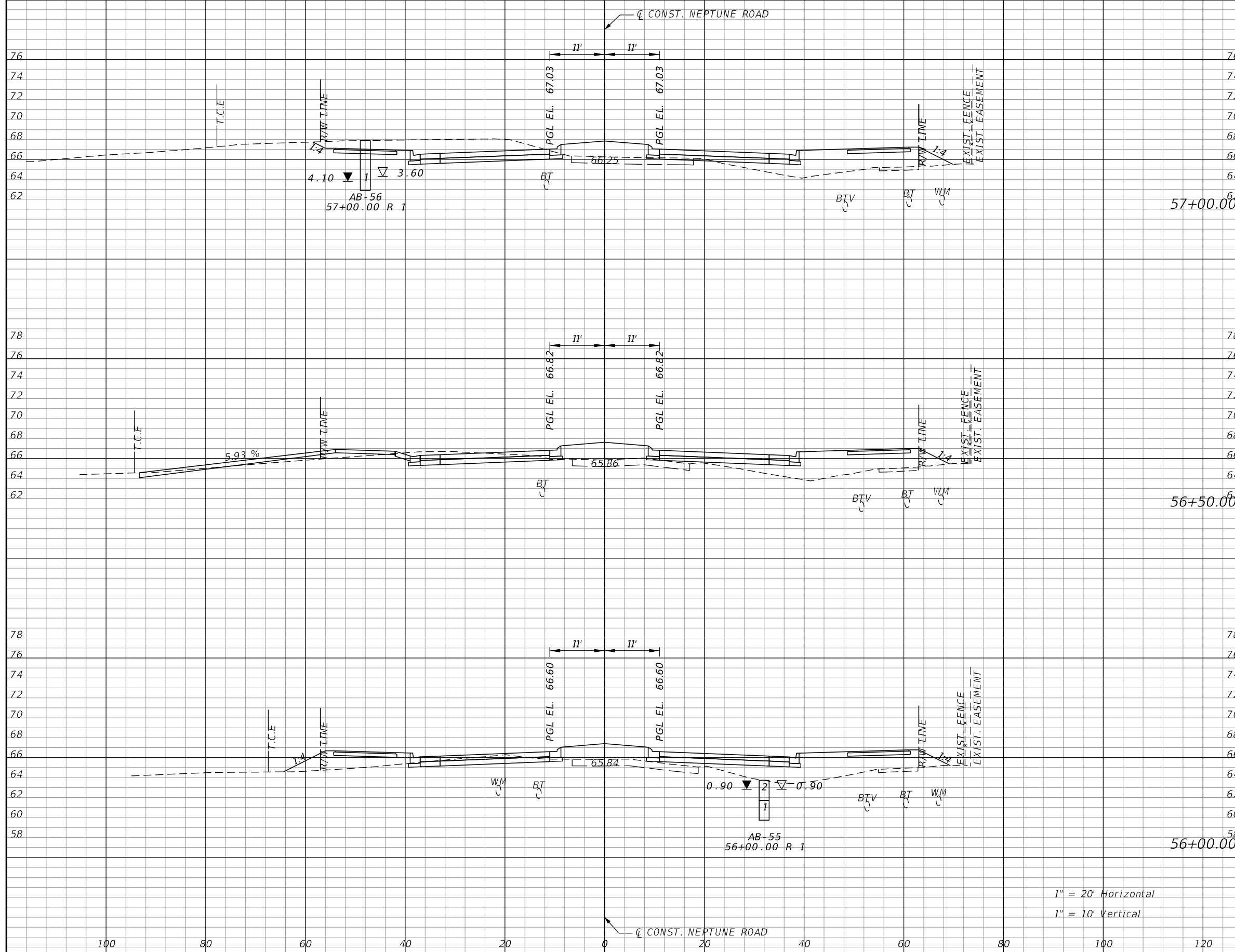


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KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
145

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	83.5	107.9	90.4	180.3
0.0	0.0	33.0	46.9	104.3	218.1
0.0	0.0	17.7	18.0	131.3	249.4

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

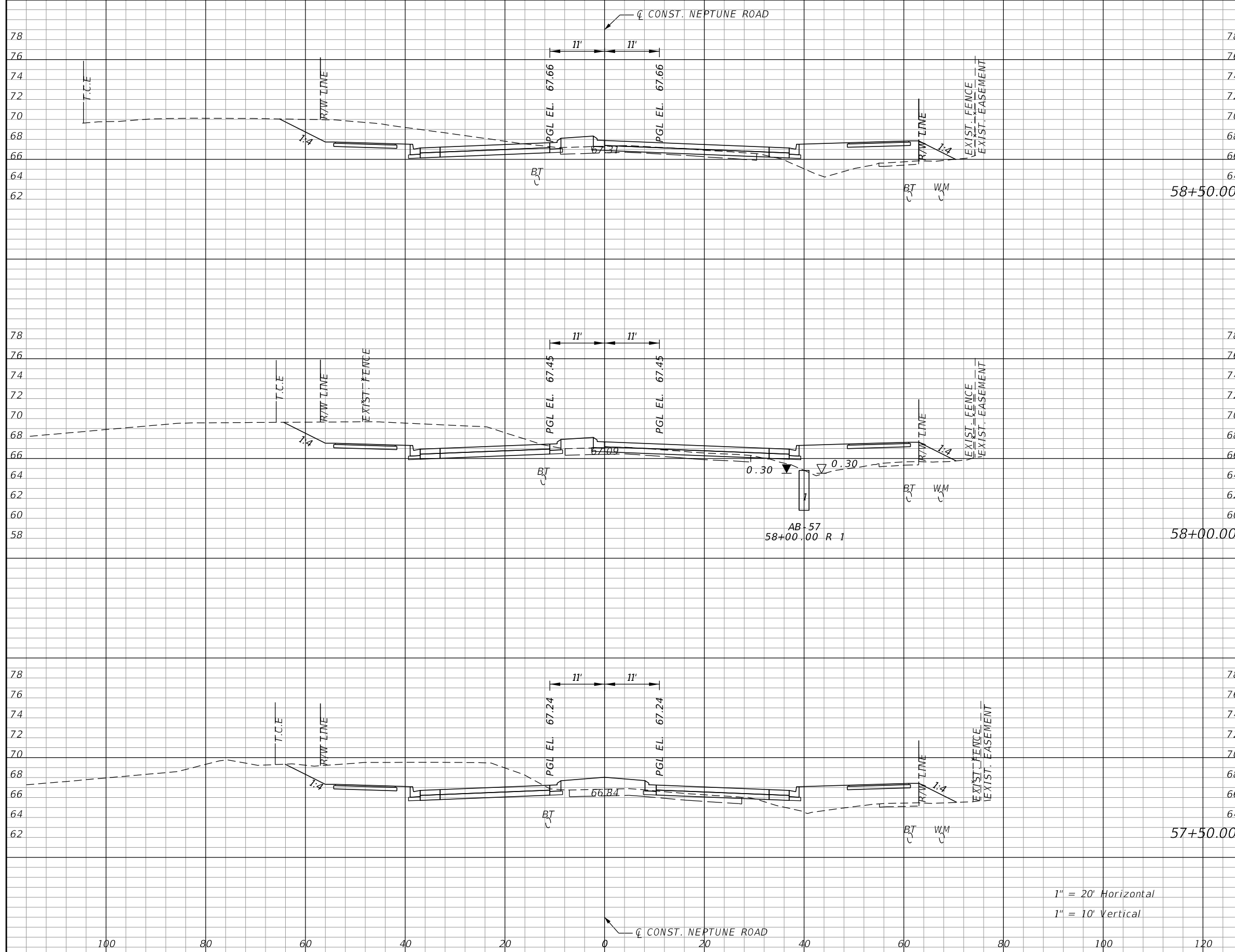


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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
146

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	117.5	238.6	71.0	128.0
0.0	0.0	140.2	262.7	67.2	133.5
0.0	0.0	143.5	210.2	77.0	155.0

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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ORLANDO, FL 32801

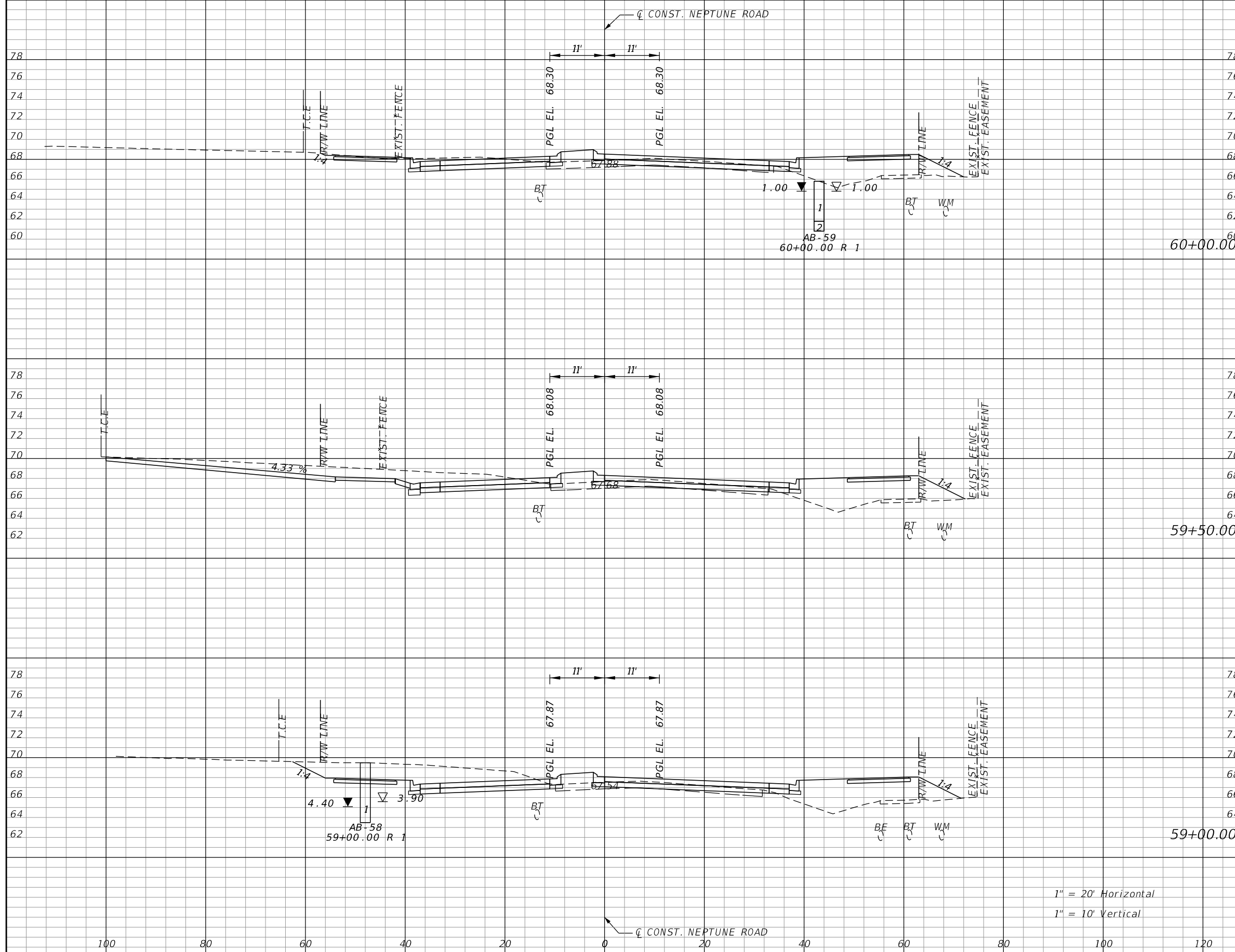


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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
147

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	57.7	172.4	67.2	133.7
0.0	0.0	128.5	228.0	77.2	142.5
0.0	0.0	117.7	217.8	76.7	136.8

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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ORLANDO, FL 32801

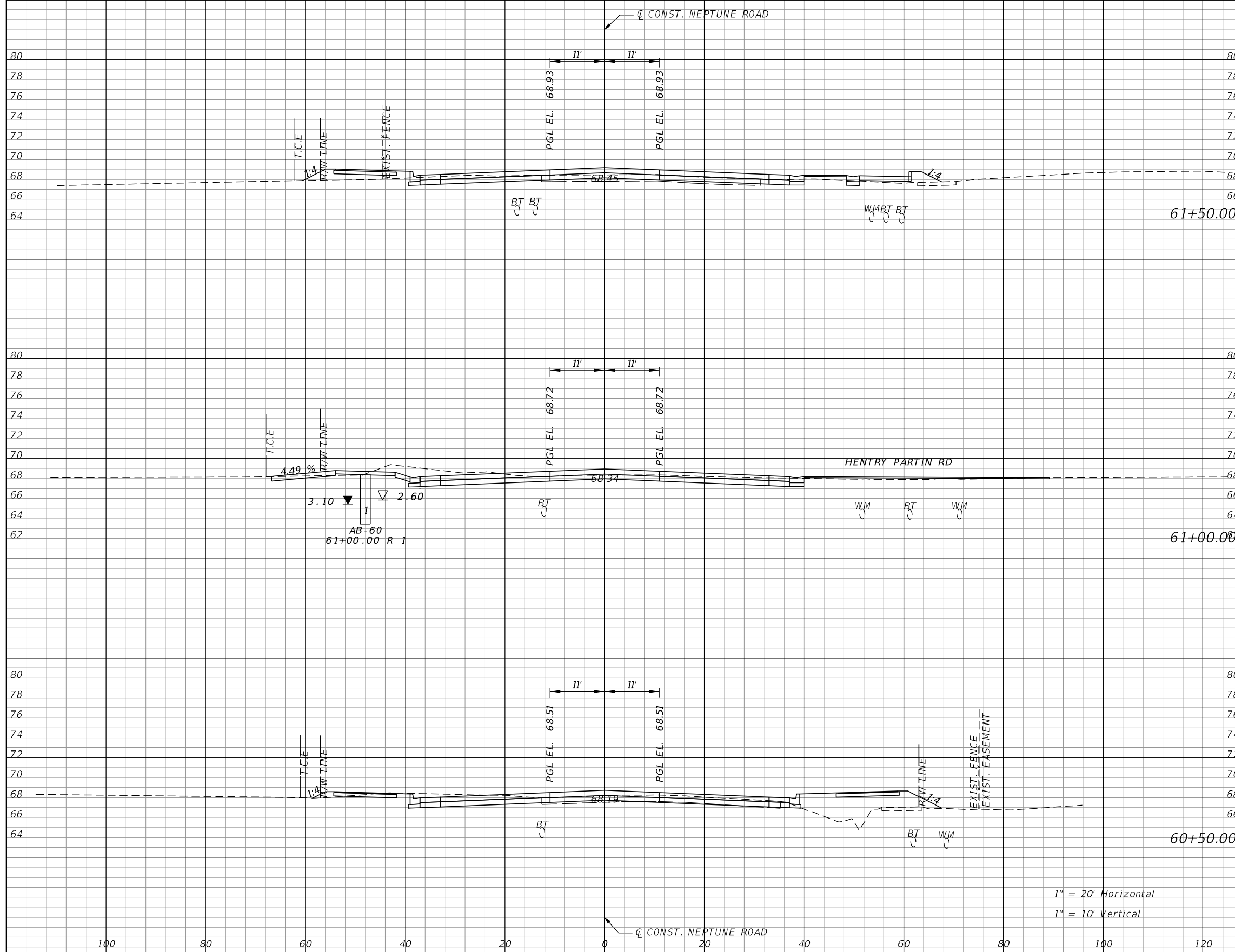


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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
148

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	44.0	111.0	20.5	23.0
0.0	0.0	75.9	128.1	4.3	50.4
0.0	0.0	62.4	111.2	50.1	108.6

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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ORLANDO, FL 32801

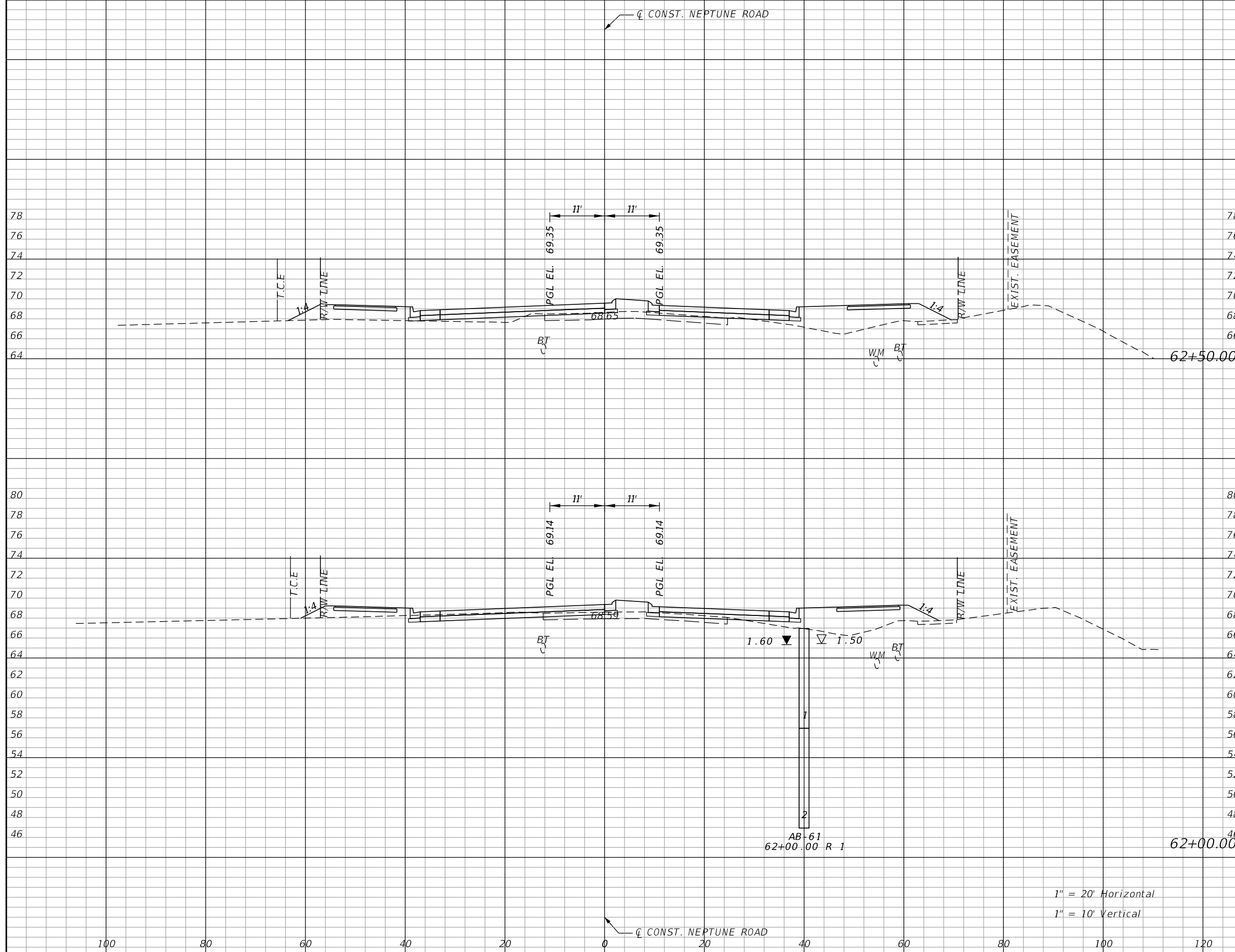


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**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
149

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	4.6	28.1	95.2	157.1
0.0	0.0	25.8	64.6	74.5	88.0

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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ORLANDO, FL 32801

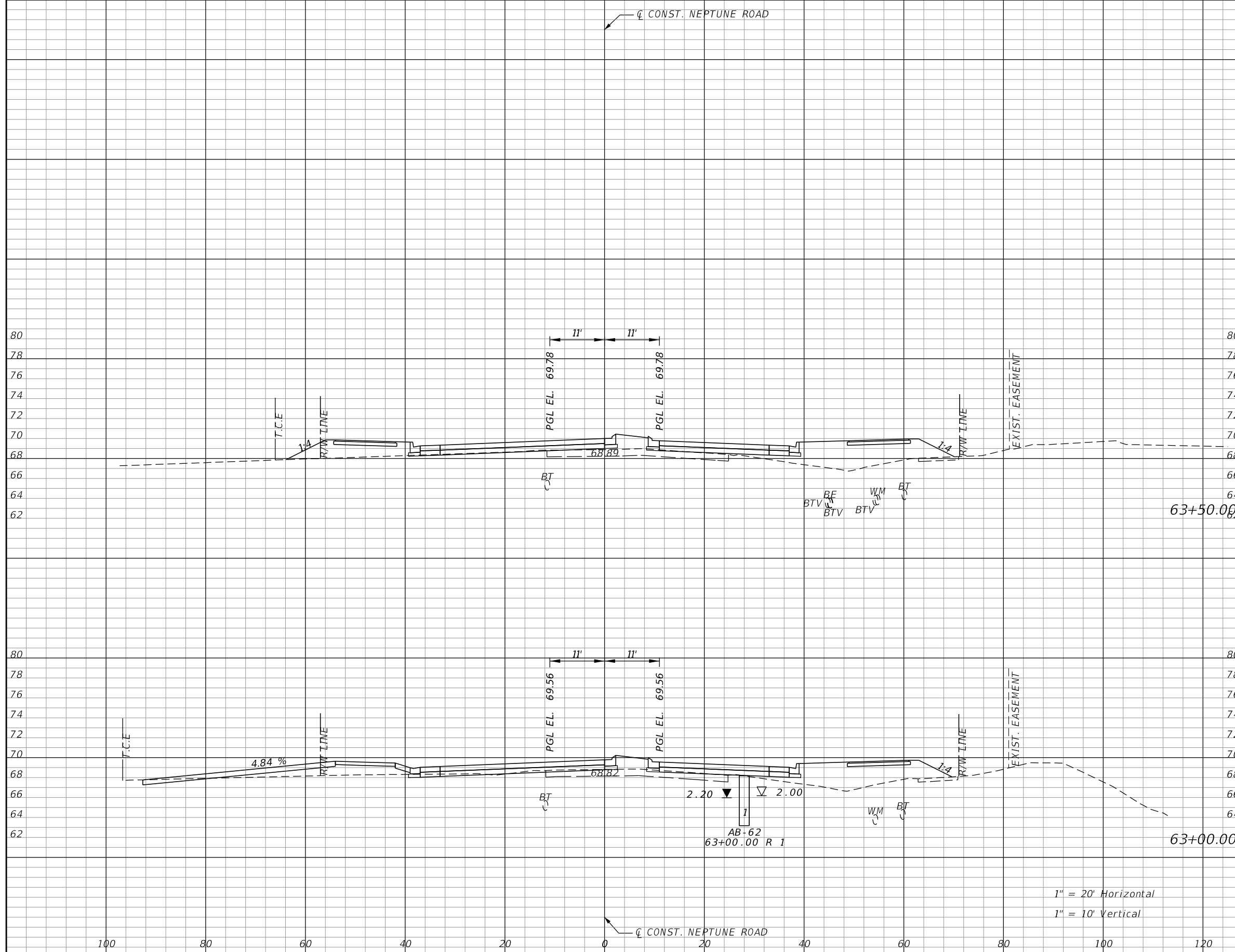


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KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
150

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.




Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	2.3	11.9	104.9	181.9
0.0	0.0	10.5	14.0	91.6	173.0

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

CROSS SECTIONS
NEPTUNE ROAD

SHEET NO.
151

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.




Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	3.4	6.3	143.2	250.3
0.0	0.0	3.4	6.3	127.1	209.2
0.0	0.0	2.8	4.7	98.8	188.6

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

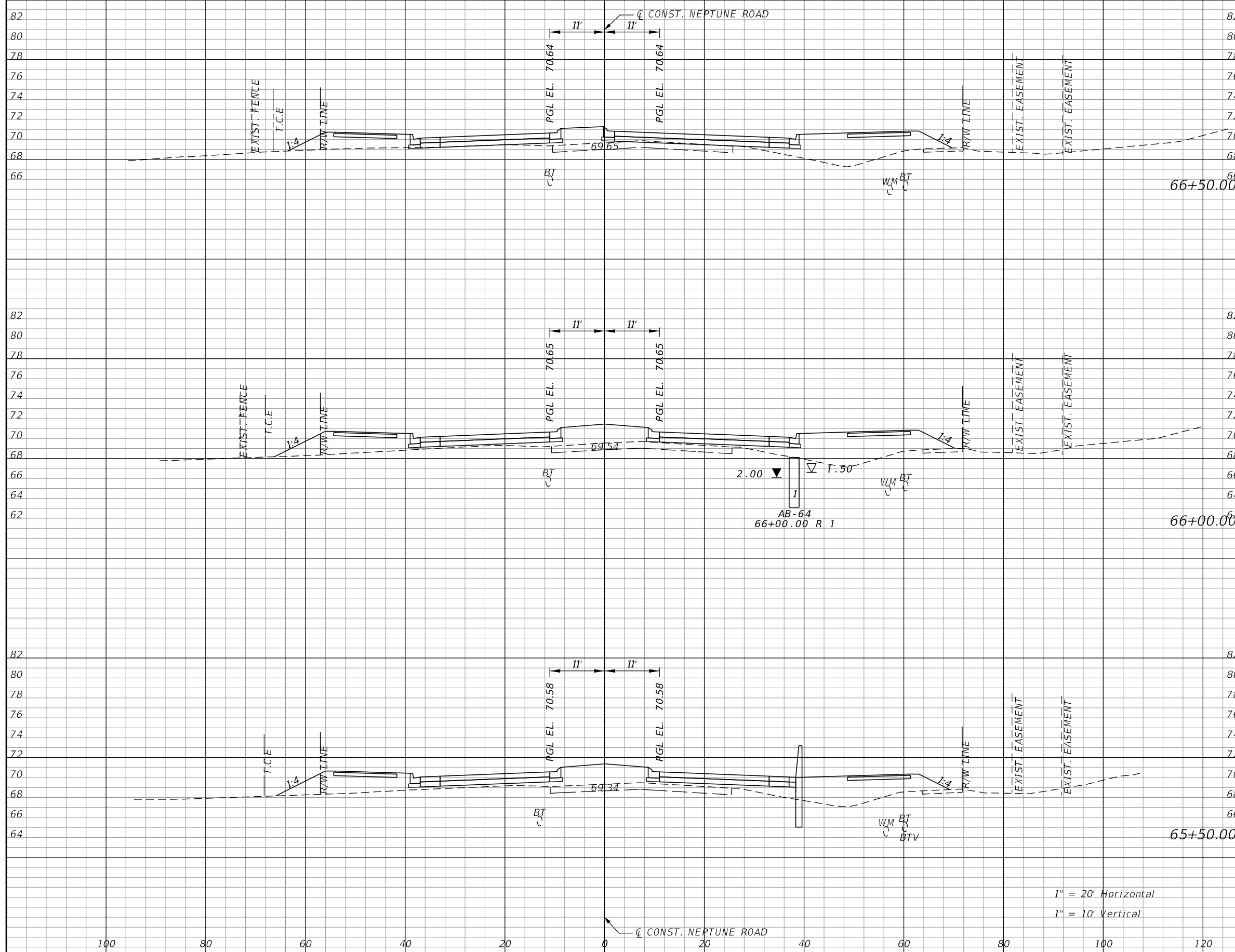


OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
152

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	1.9	1.8	116.9	258.2
0.0	0.0	0.0	3.1	162.0	296.4
0.0	0.0	3.4	6.3	152.7	286.4

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

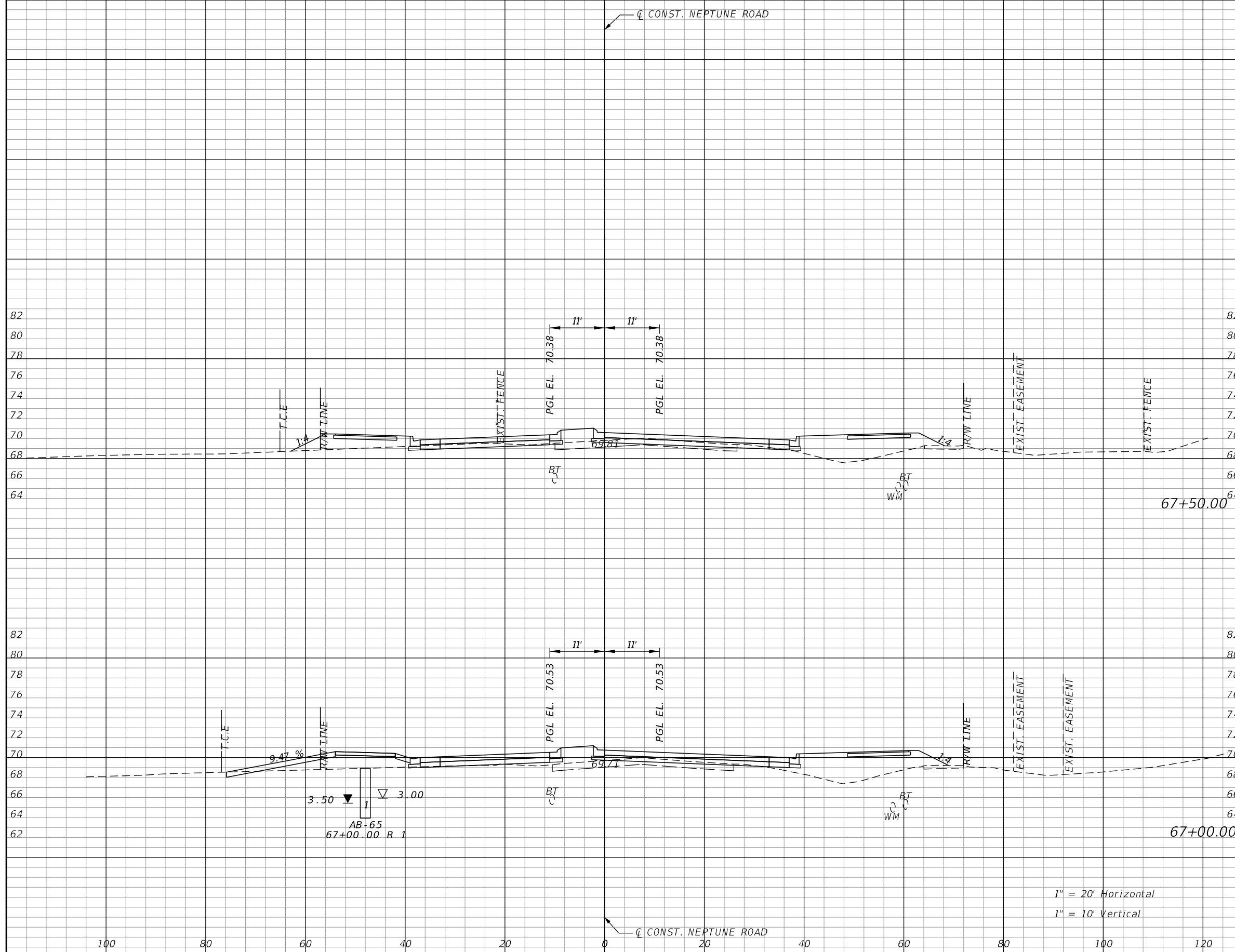


OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
153

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	23.0	28.8	81.9	168.7
0.0	0.0	8.1	9.3	100.3	196.8

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

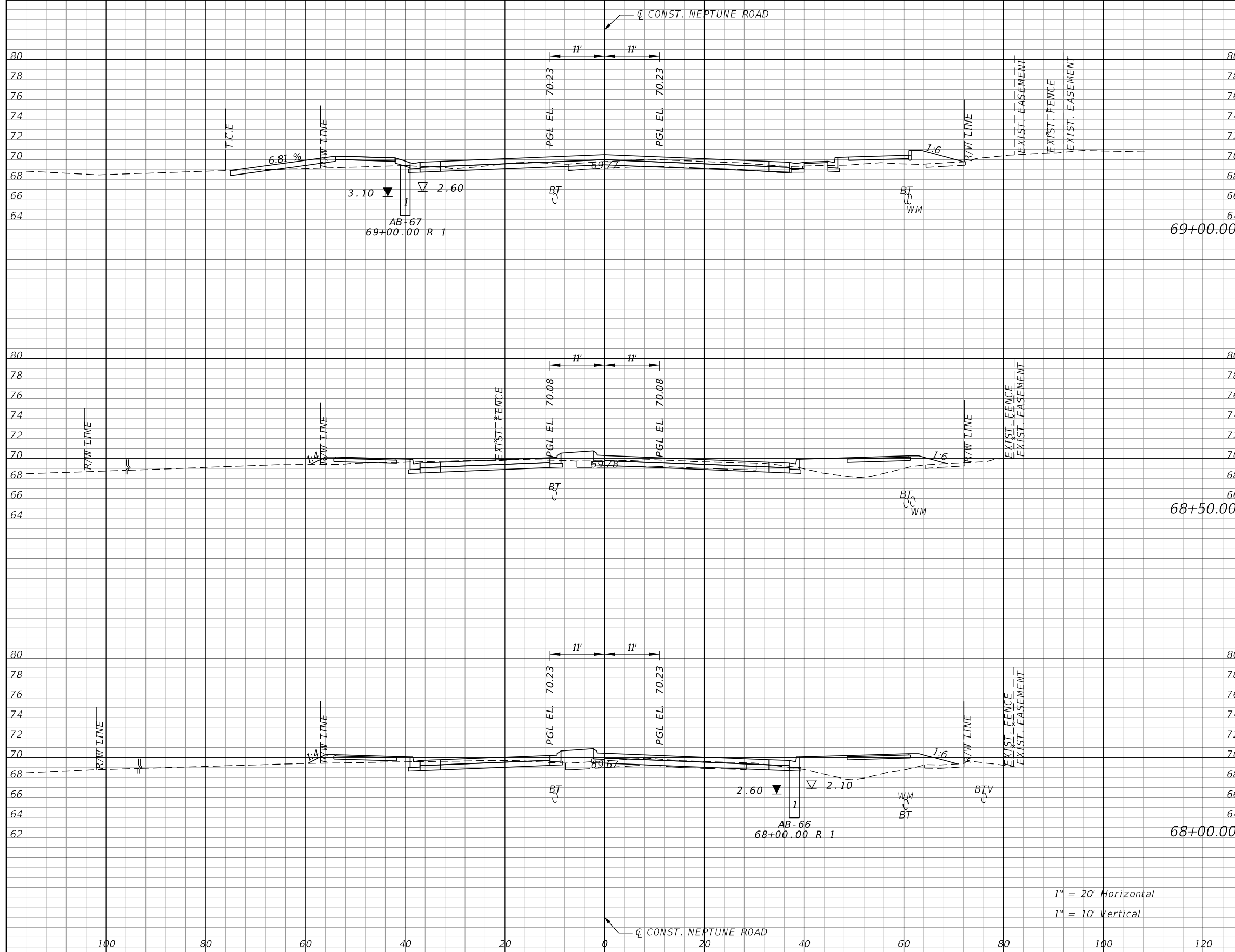


OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
154

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	45.8	98.0	28.3	67.3
0.0	0.0	60.0	93.4	44.4	96.6
0.0	0.0	40.9	59.2	59.9	131.3

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

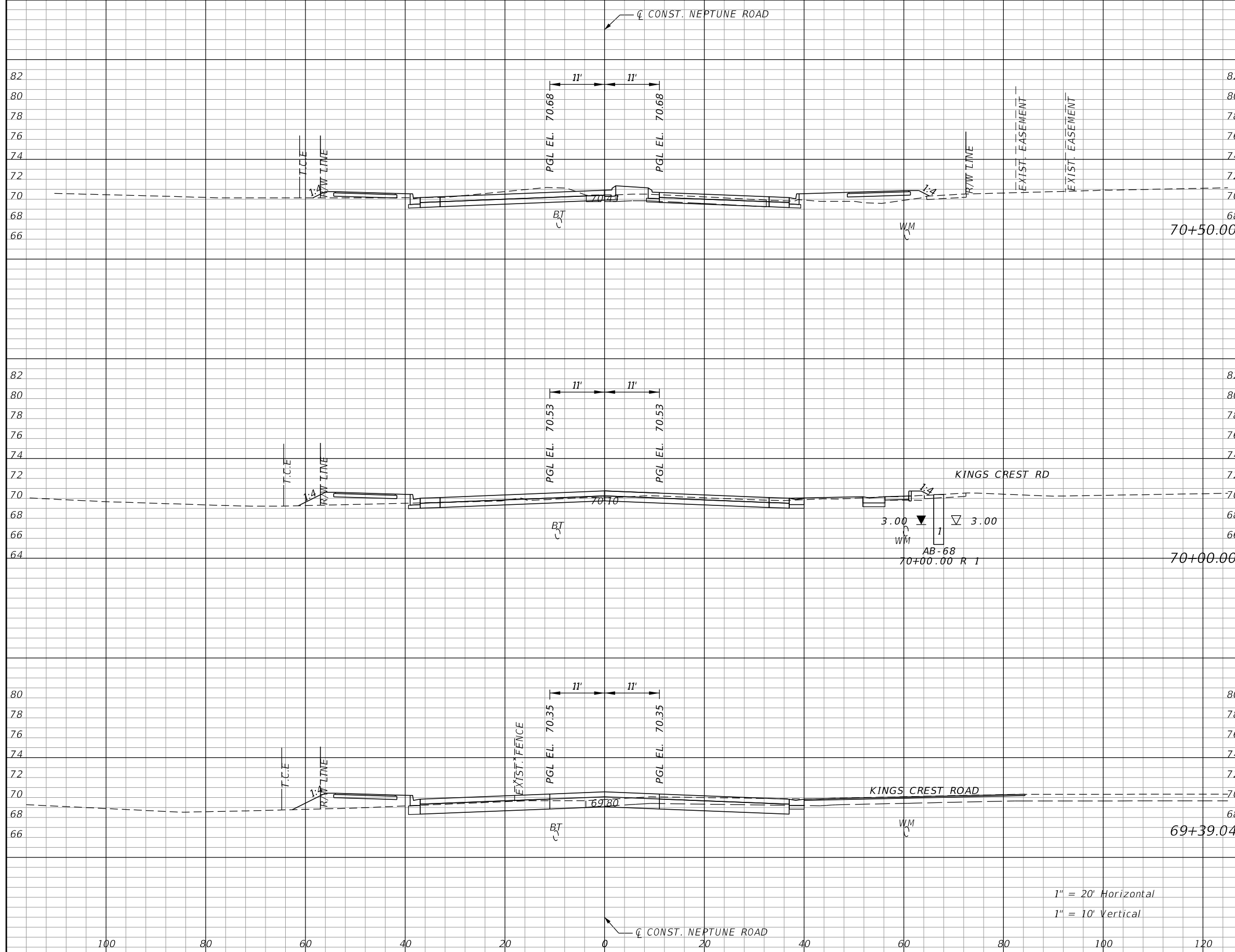
DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
 1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE:(407) 742-0662 FAX:(407) 742-0600

**CROSS SECTIONS
 NEPTUNE ROAD**

SHEET NO.
155

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.




Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	66.3	108.0	26.4	42.5
0.0	0.0	50.3	157.3	19.5	47.1
0.0	0.0	89.0	97.5	22.2	36.5

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

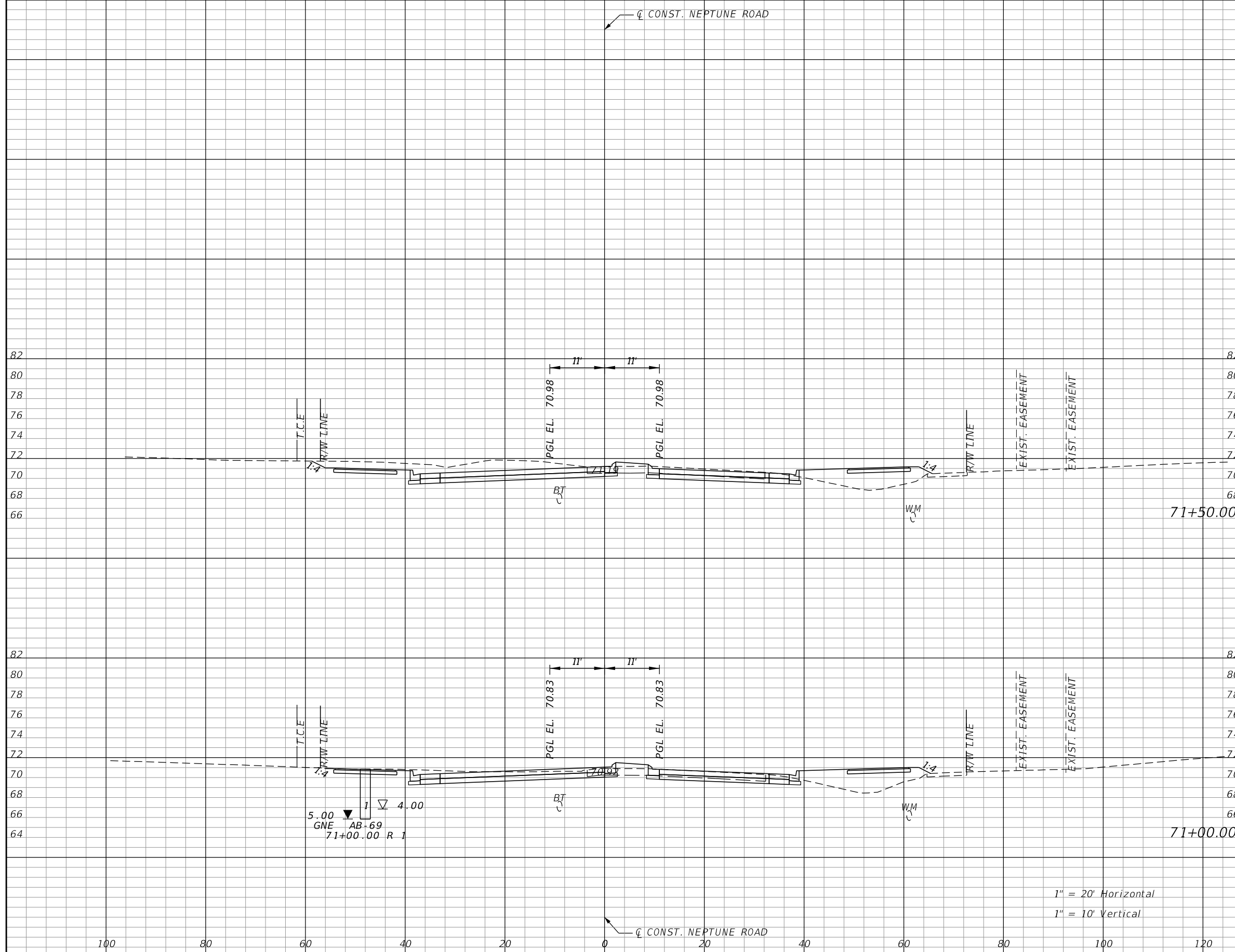


OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
156

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	119.7	181.1	37.6	72.5
0.0	0.0	75.9	131.7	40.7	62.1

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
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GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

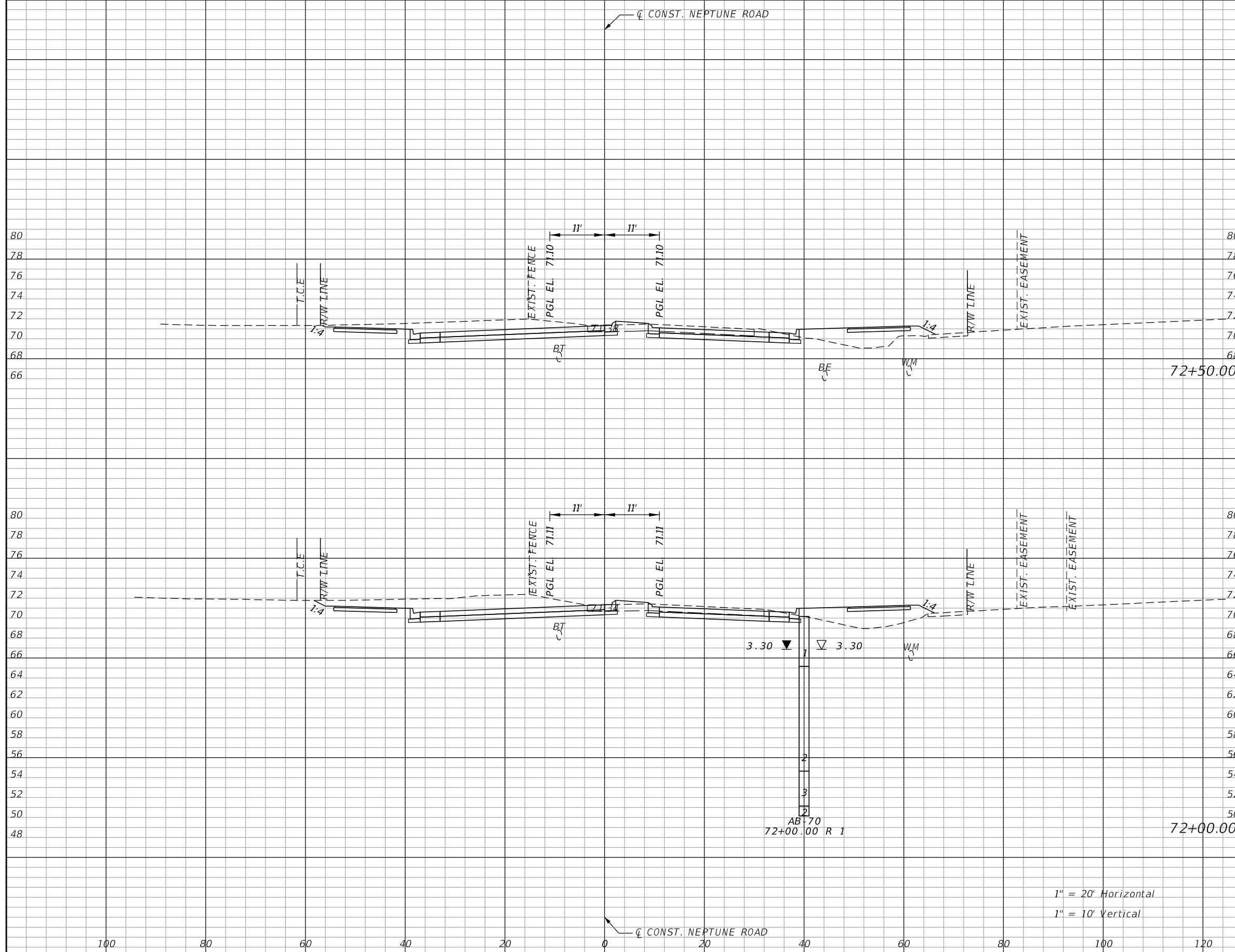


OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
157


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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	120.8	237.7	32.9	65.9
0.0	0.0	135.9	236.7	38.3	70.3

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

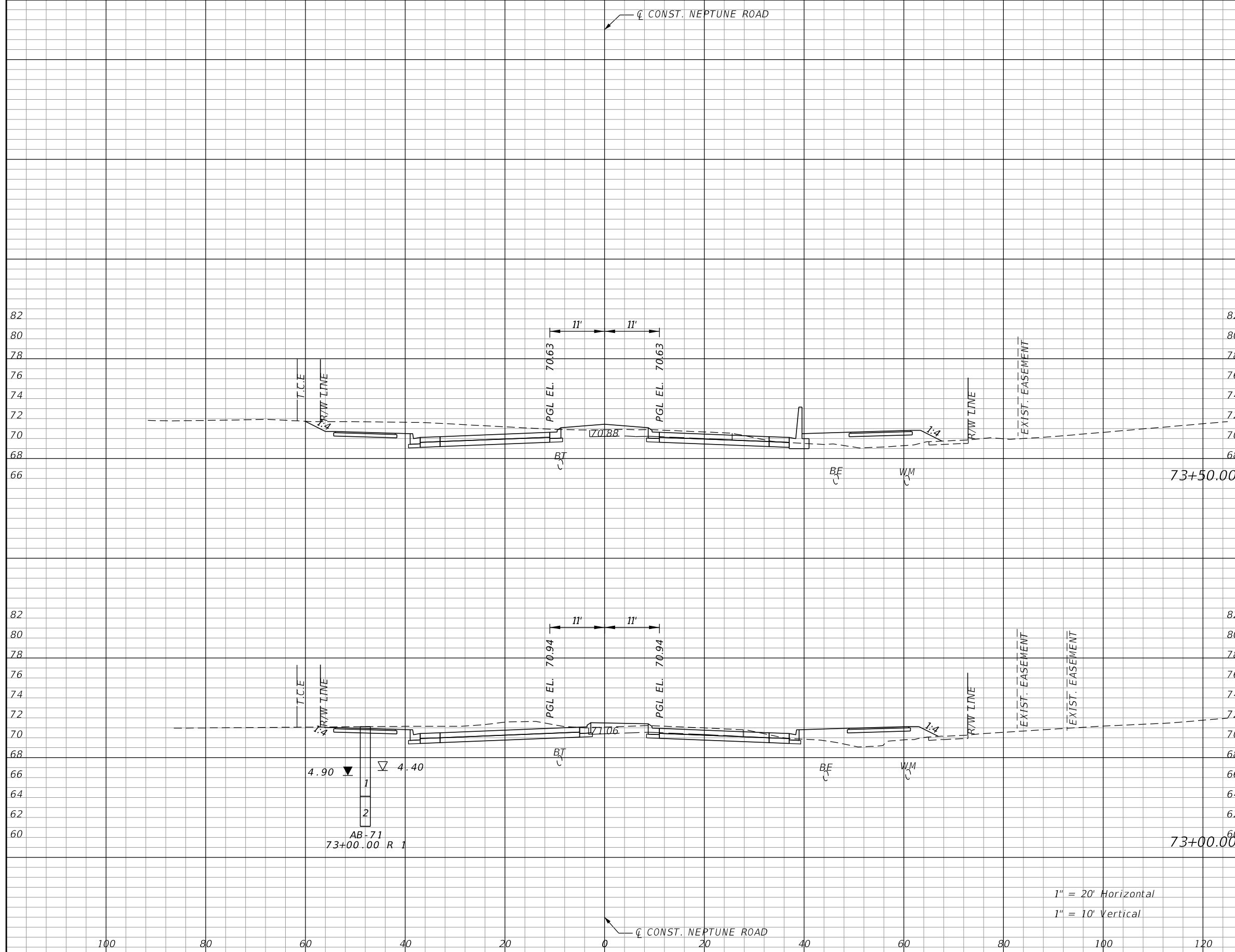


OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

CROSS SECTIONS
NEPTUNE ROAD

SHEET NO.
158

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	115.0	196.8	35.5	65.3
0.0	0.0	97.5	202.1	35.0	62.9

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

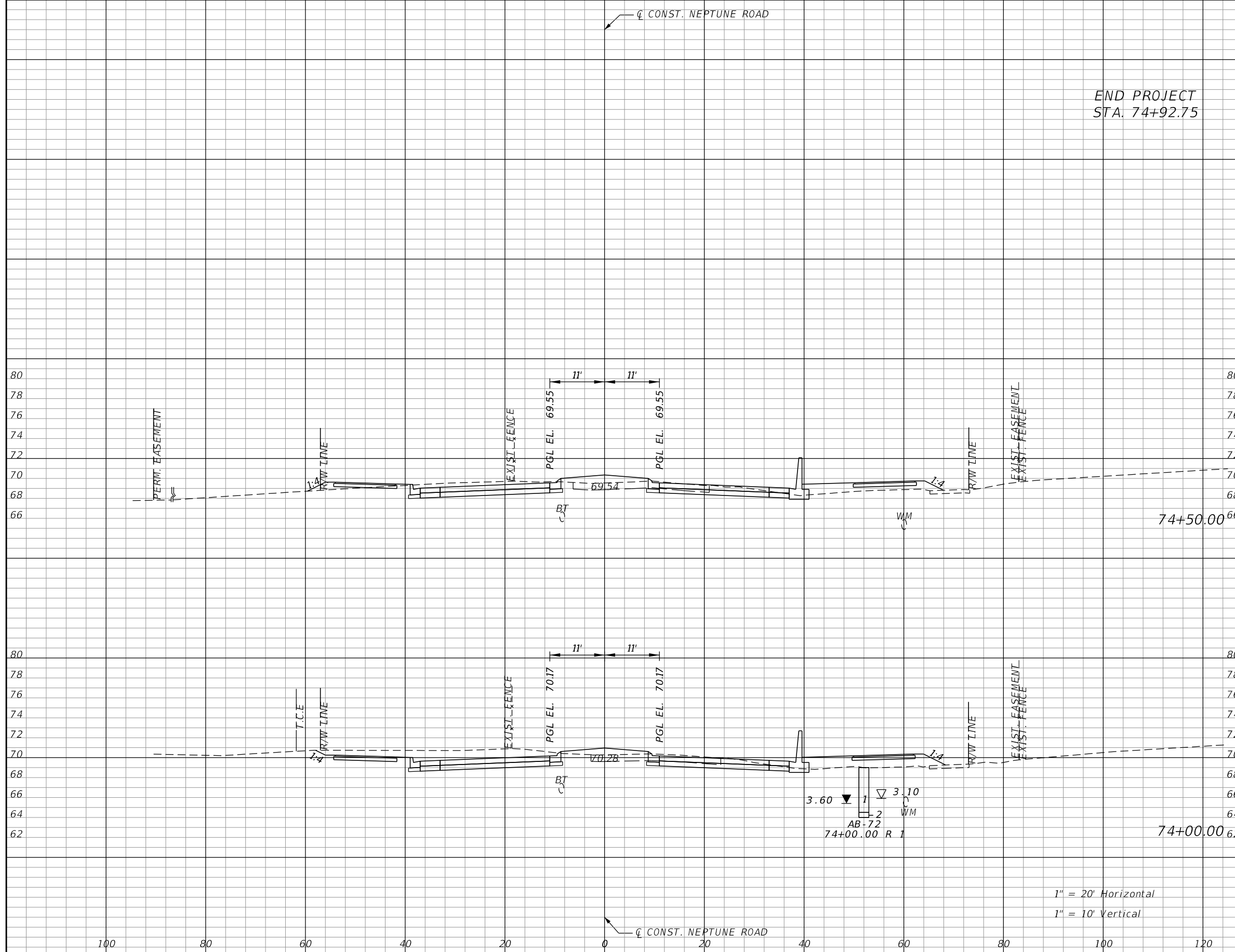
DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

 OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

**CROSS SECTIONS
NEPTUNE ROAD**

SHEET NO.
159

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.




Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	43.2	152.9	36.5	68.8
0.0	0.0	66.7	154.4	31.9	60.6
0.0	0.0	100.0	199.1	33.6	64.0

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
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GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

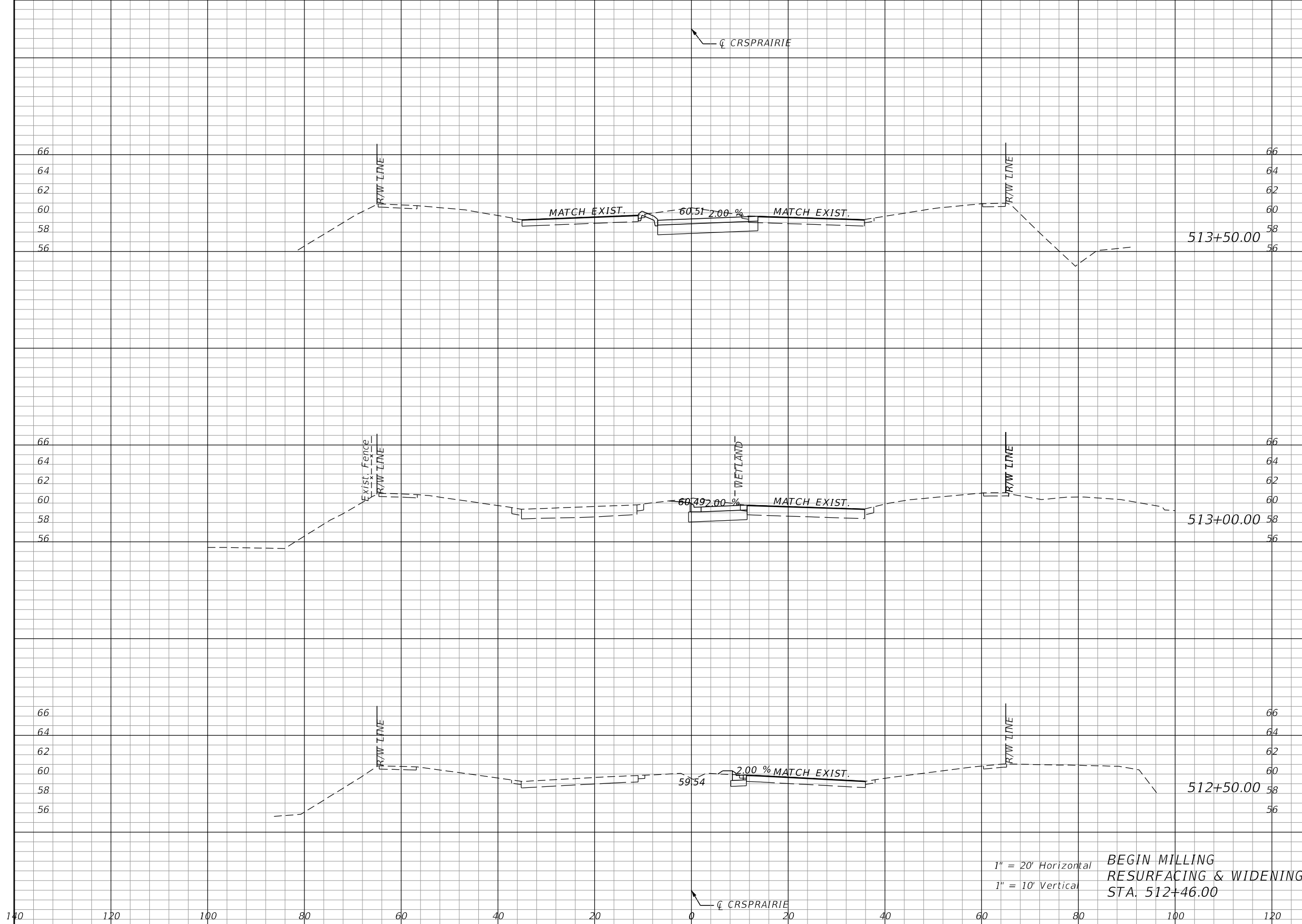


OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

**CROSS SECTIONS
NEPTUNE ROAD**

SHEET
NO.
160

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Regular		Exc.		Embankment	
A	V	A	V	A	V
47.6	66.9	0	0	0	0
24.7	26.2	0	0.8	0	0.8
3.6	0.3	0.9	0.1	0.9	0.1

1" = 20' Horizontal
 1" = 10' Vertical
 BEGIN MILLING
 RESURFACING & WIDENING
 STA. 512+46.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

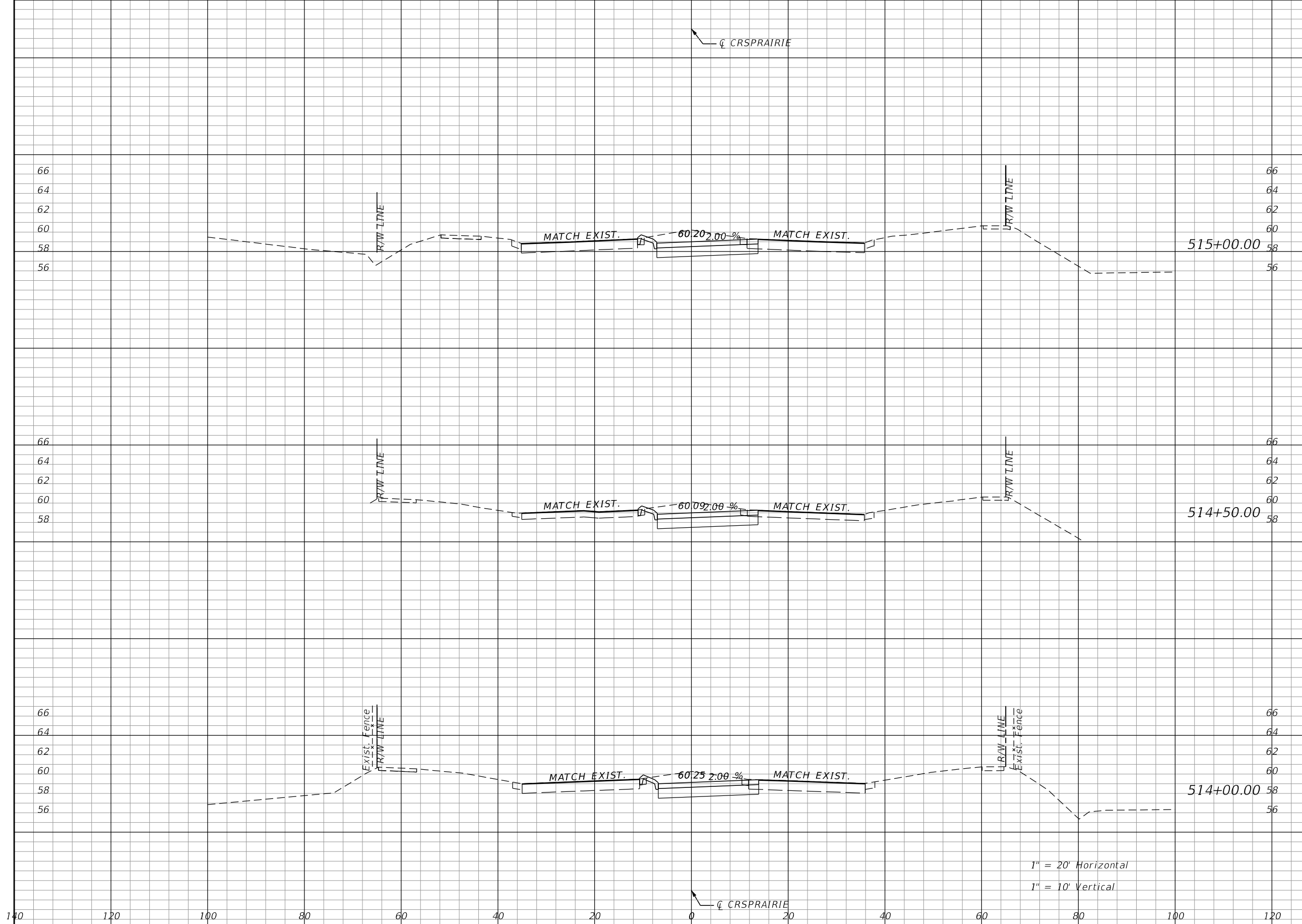


OSCEOLA COUNTY TRANSIT
 AND TRANSPORTATION
 1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE:(407) 742-0662 FAX:(407) 742-0600

CROSS SECTIONS
CROSS PRAIRIE PKWY

SHEET NO.
161

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular Exc.		Embankment	
A	V	A	V
48.4	88.5	0	0
47.2	87.1	0	0
46.9	87.5	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

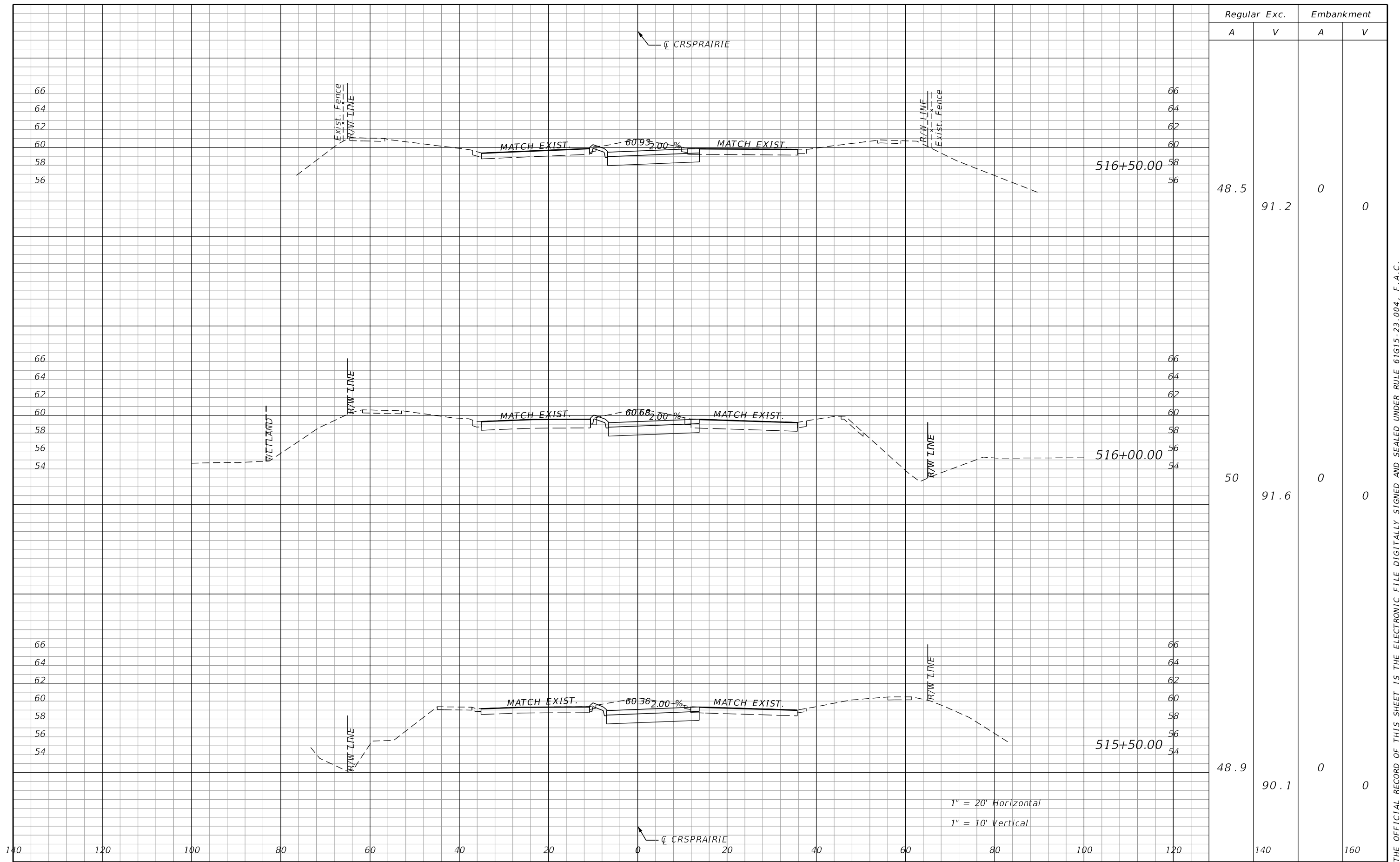
DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

 OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

CROSS SECTIONS
CROSS PRAIRIE PKWY

SHEET NO.
162

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

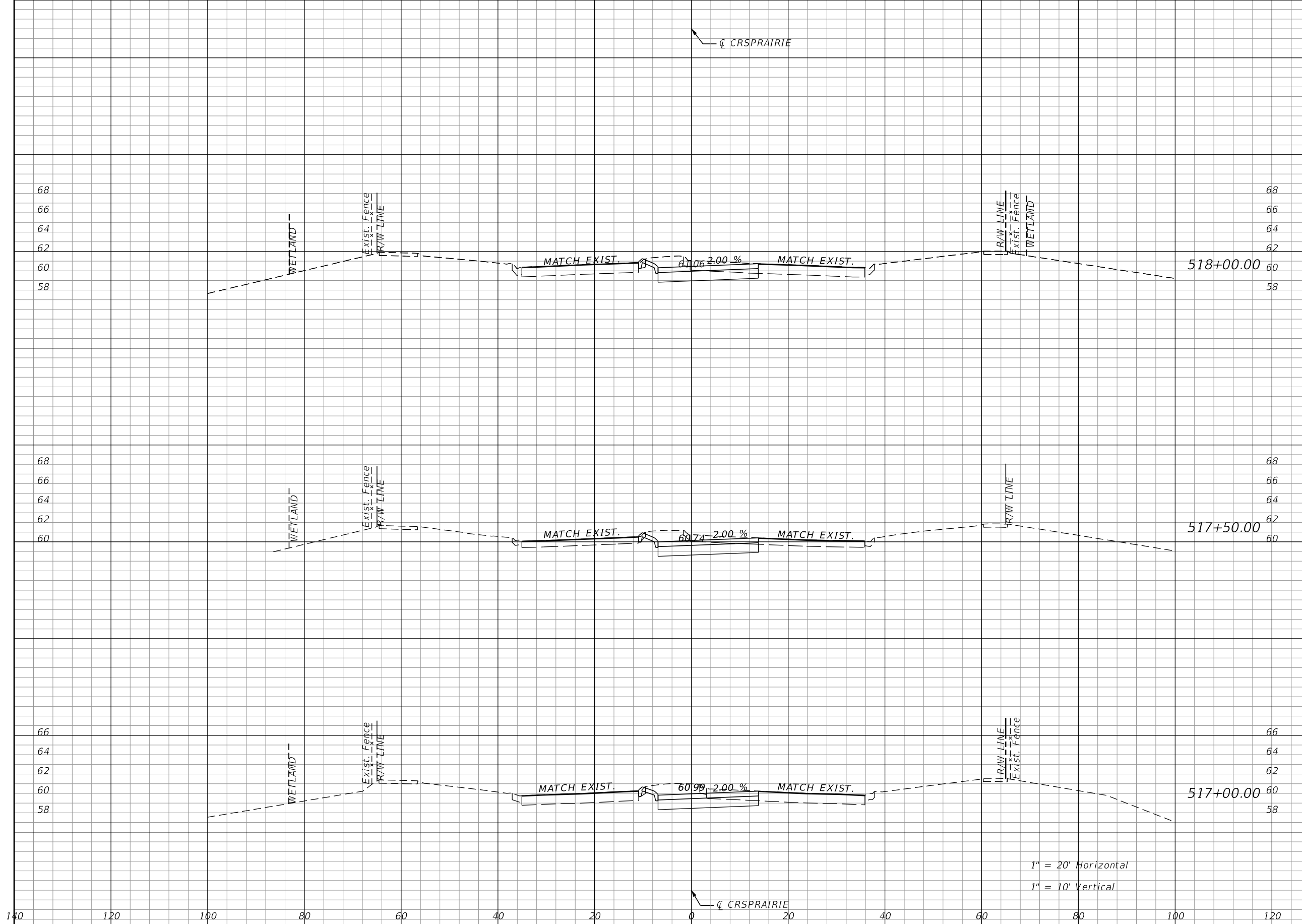


OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMEE, FLORIDA 34741-5488
PHONE: (407) 742-0662 FAX: (407) 742-0600

CROSS SECTIONS
CROSS PRAIRIE PKWY

SHEET NO.
163

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Regular		Exc.		Embankment	
A	V	A	V	A	V
45.7	84.6	0	0	0	0
45.7	85.9	0	0	0	0
47.1	88.5	0	0	0	0

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

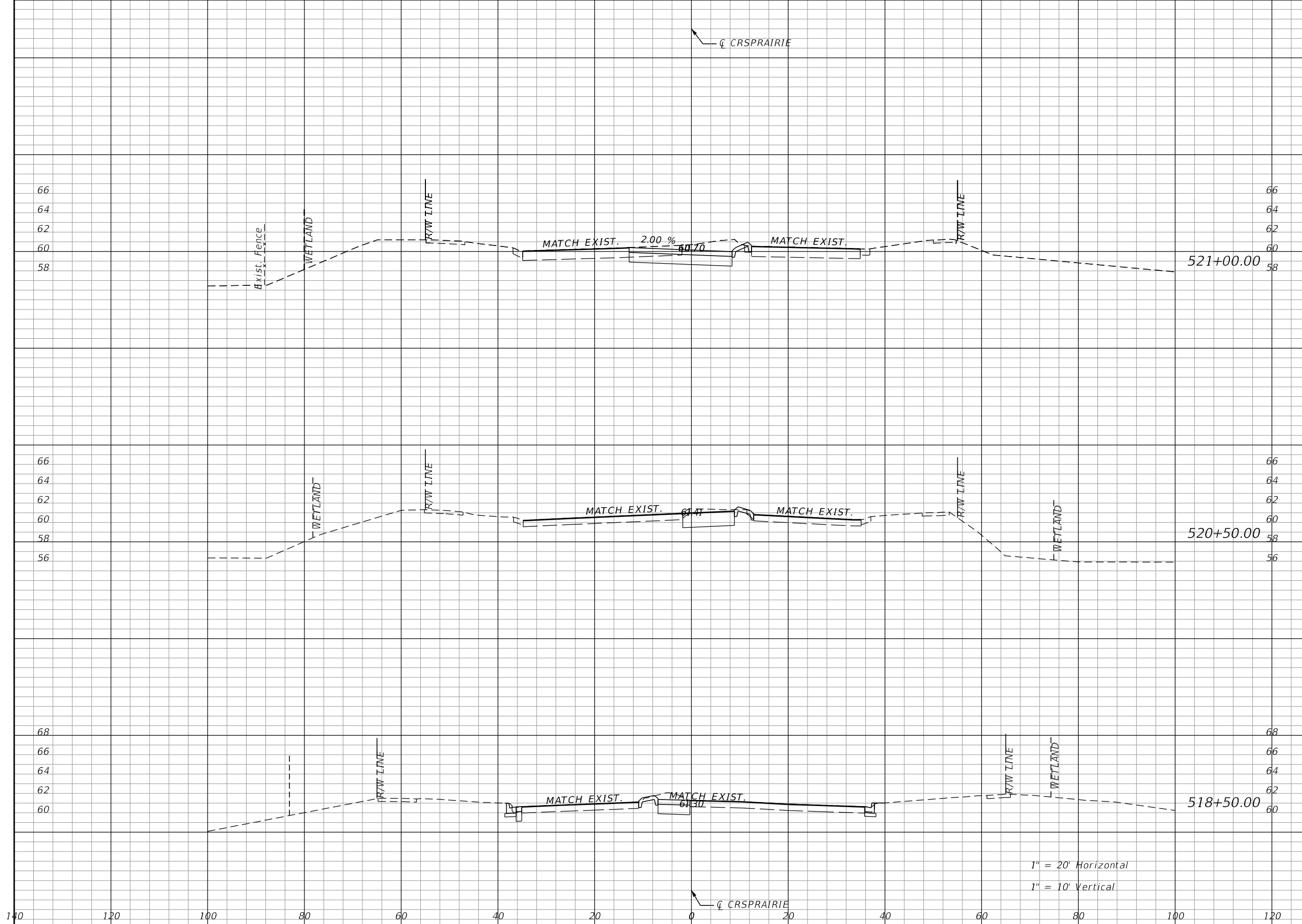


OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

CROSS SECTIONS
CROSS PRAIRIE PKWY

SHEET NO.
164

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Regular		Exc.		Embankment	
A	V	A	V	A	V
45.9	61.5	0	0	0	0
20.5	0.0	0	0	0	0
21.3	62	0	0	0	0

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

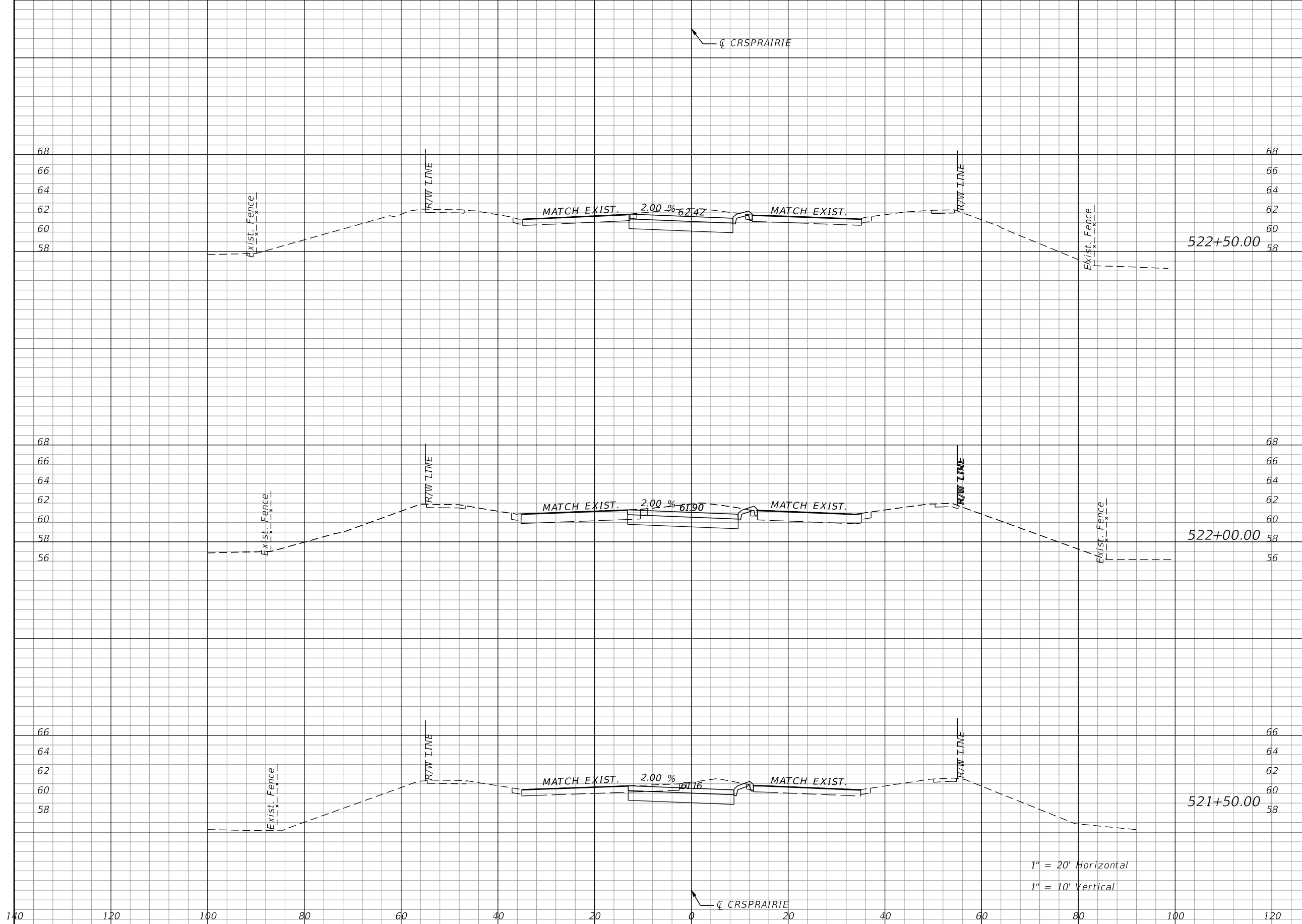


OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

CROSS SECTIONS
CROSS PRAIRIE PKWY

SHEET NO.
165

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Regular		Exc.		Embankment	
A	V	A	V	A	V
46	88.7	0	0	0	0
49.8	89.3	0	0	0	0
46.6	85.6	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

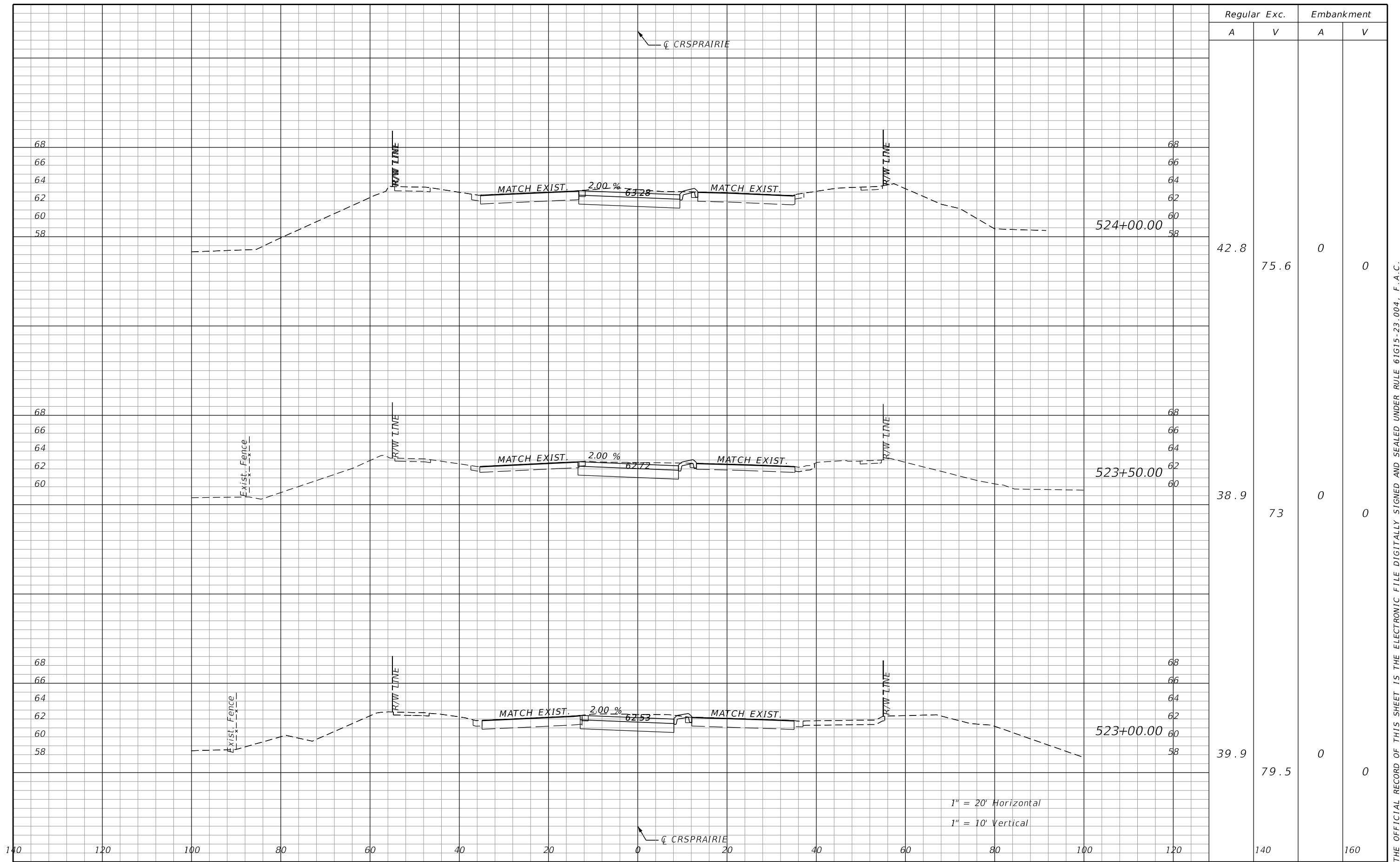
DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

 OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
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CROSS SECTIONS
CROSS PRAIRIE PKWY

SHEET NO.
166

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Regular		Exc.		Embankment	
A	V	A	V	A	V
42.8	75.6	0	0	0	0
38.9	73	0	0	0	0
39.9	79.5	0	0	0	0

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
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618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

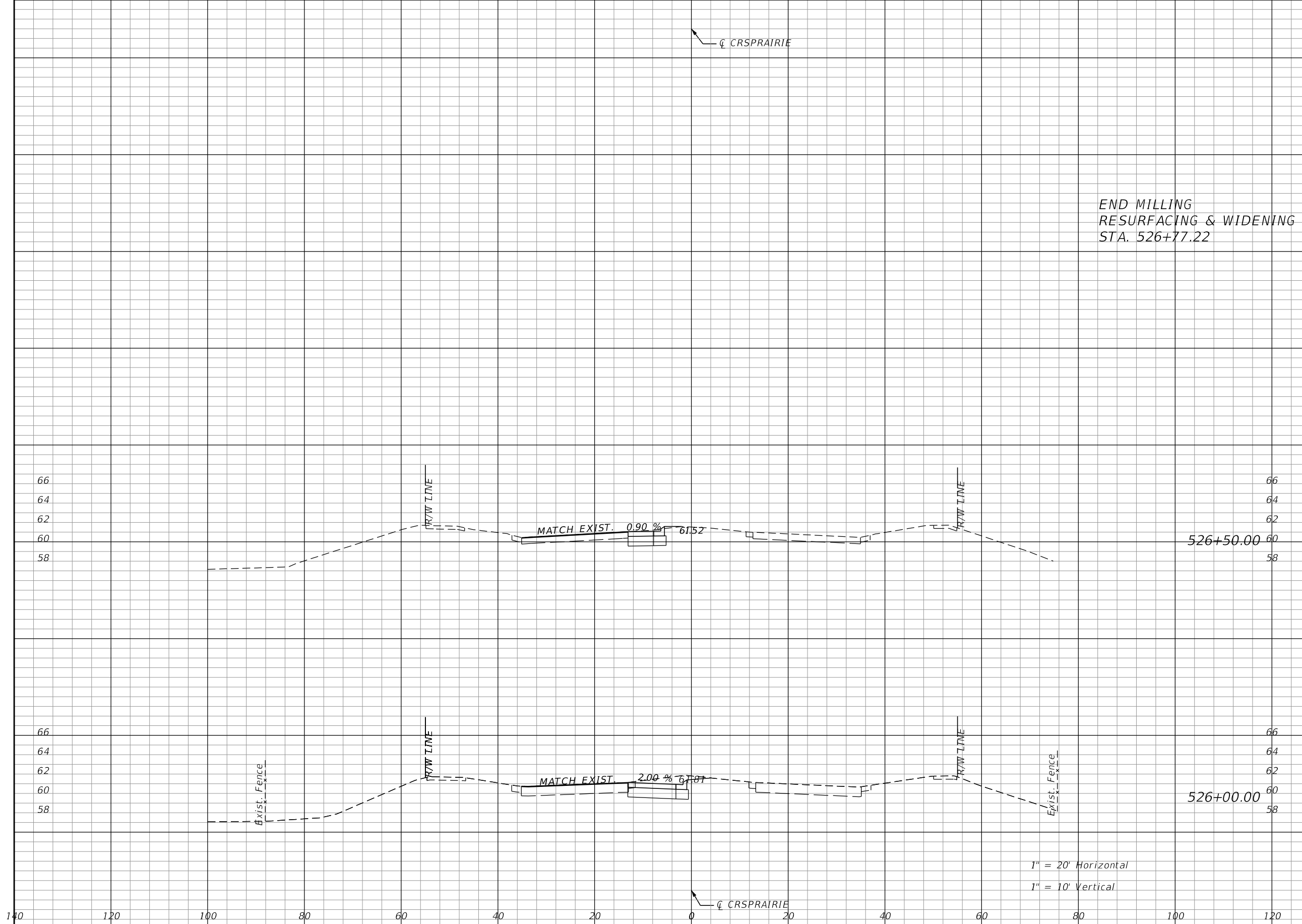


OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

CROSS SECTIONS
CROSS PRAIRIE PKWY

SHEET NO.
167

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Regular		Exc.		Embankment	
A	V	A	V	A	V
0			6.3	0	0.2
12.4			35.5	0.4	0.4
25.9			70.5	0	0

END MILLING
RESURFACING & WIDENING
STA. 526+77.22

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

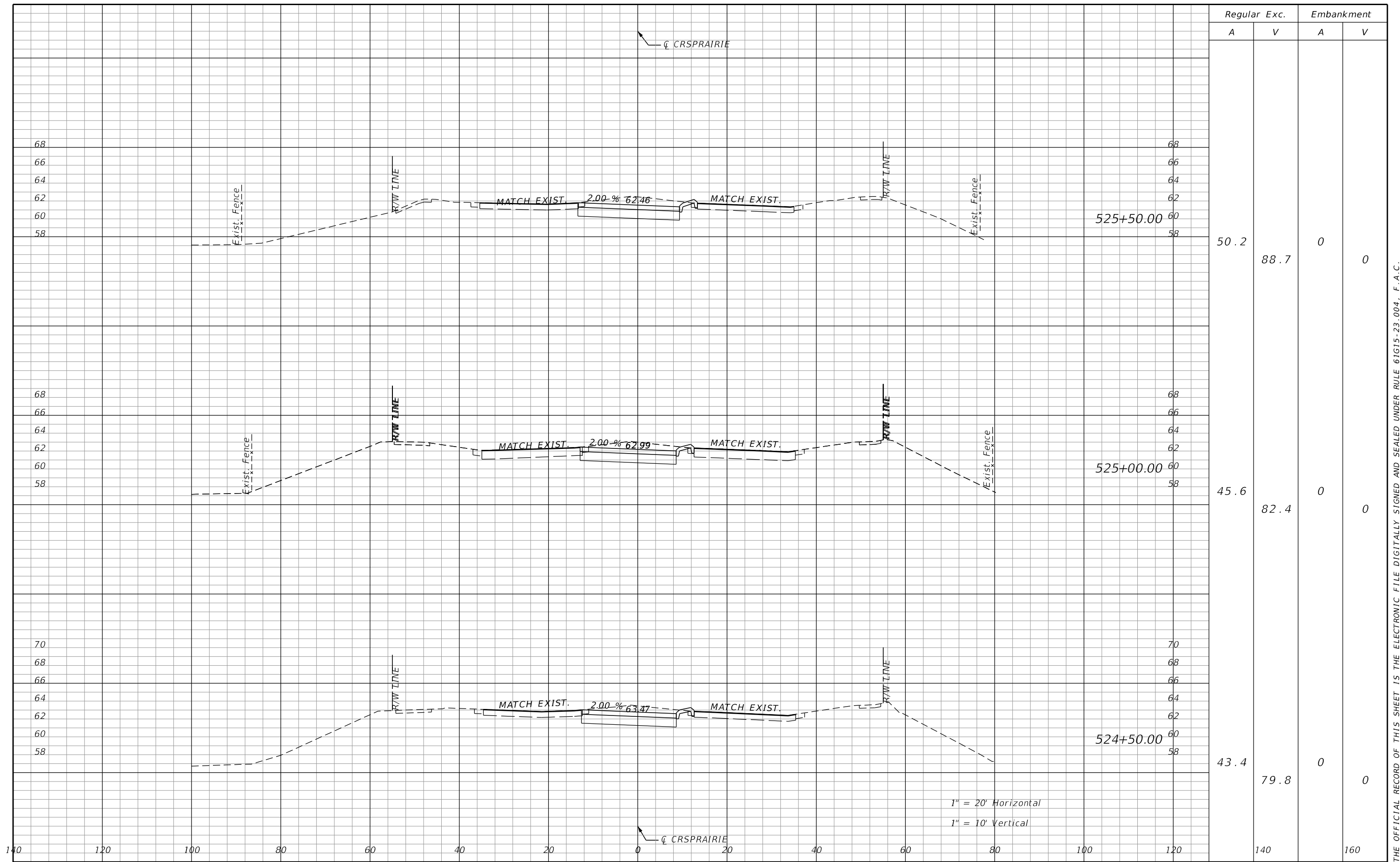


OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

CROSS SECTIONS
CROSS PRAIRIE PKWY

SHEET NO.
168

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V
50.2	88.7	0	0	0	0
45.6	82.4	0	0	0	0
43.4	79.8	0	0	0	0

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
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618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



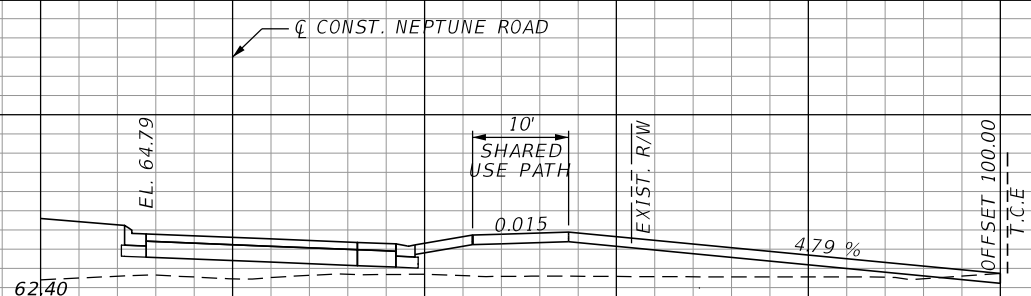
OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

CROSS SECTIONS
CROSS PRAIRIE PKWY

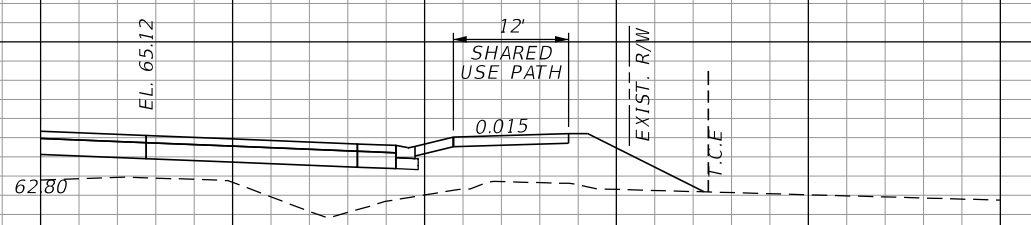
SHEET NO.
169

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

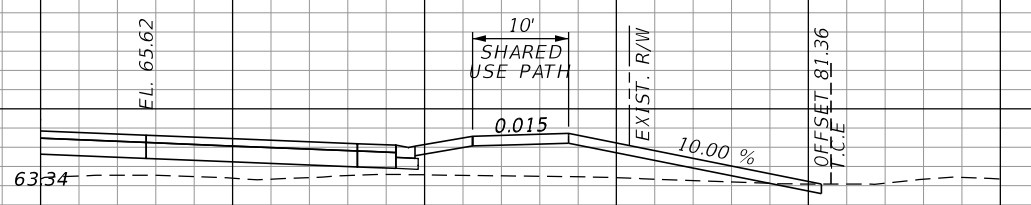
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



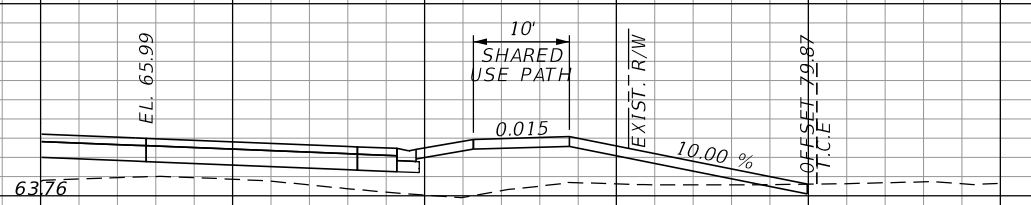
13+20.95



12+27.00



10+80.67



9+67.27

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

REVISIONS	
DATE	DESCRIPTION

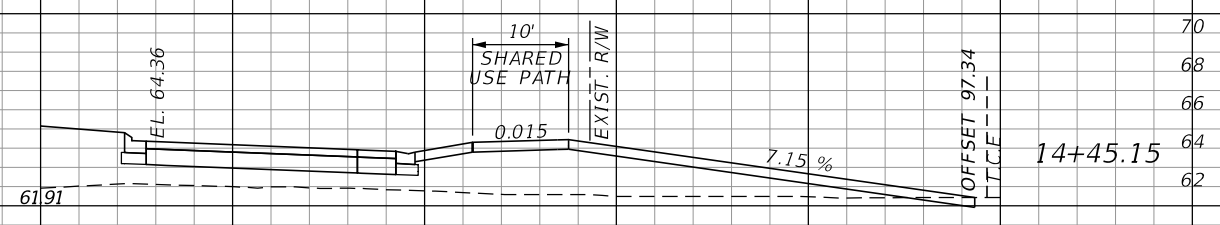
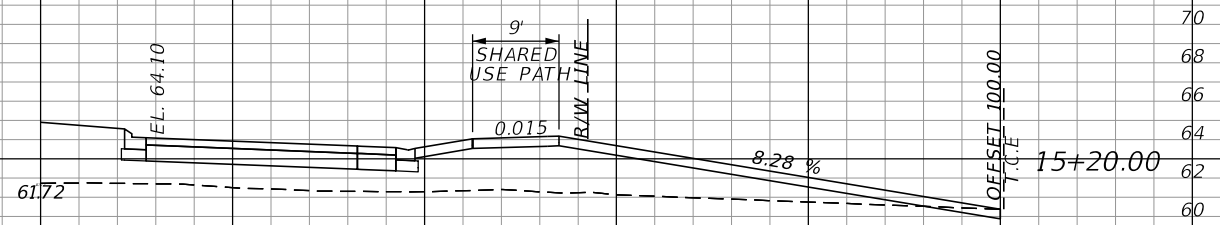
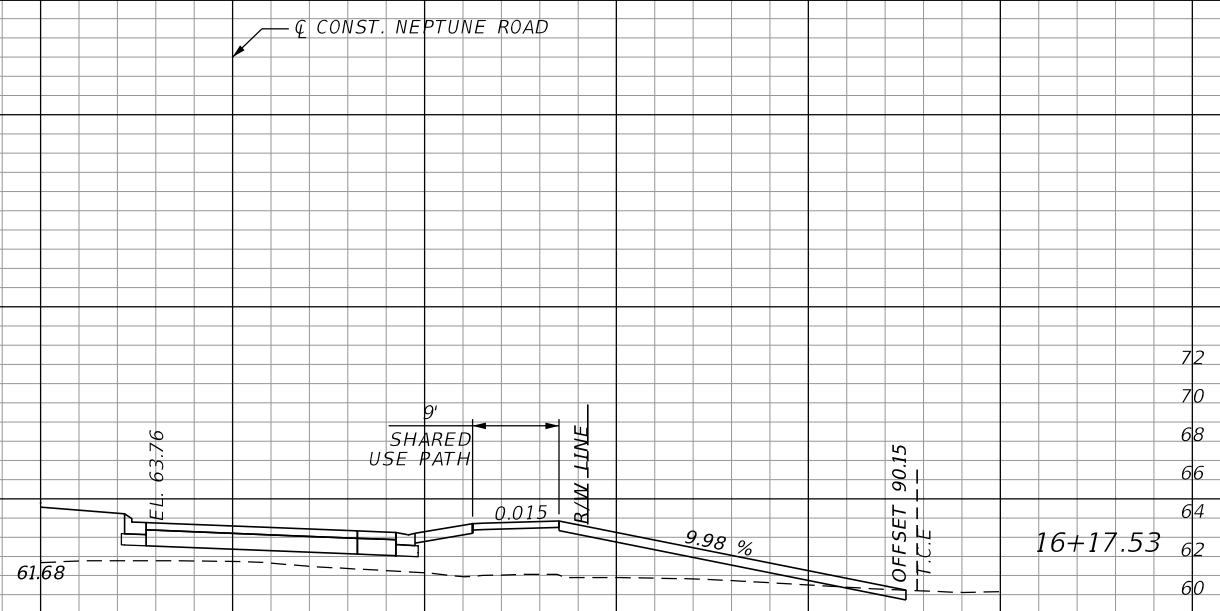
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OSCEOLA COUNTY TRANSIT
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1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
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*DRIVEWAY
CROSS SECTIONS*

SHEET
NO.
170



1" = 20' Horizontal
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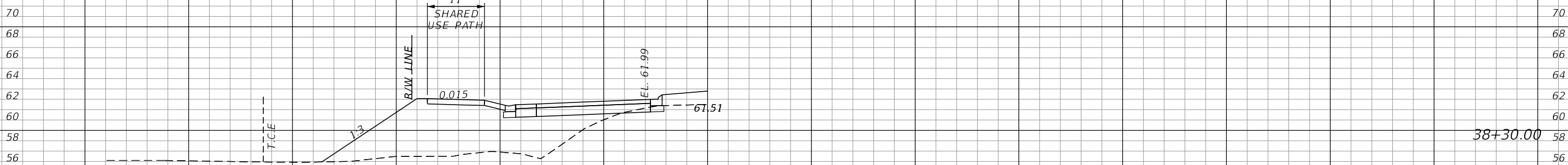
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SHEET
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171

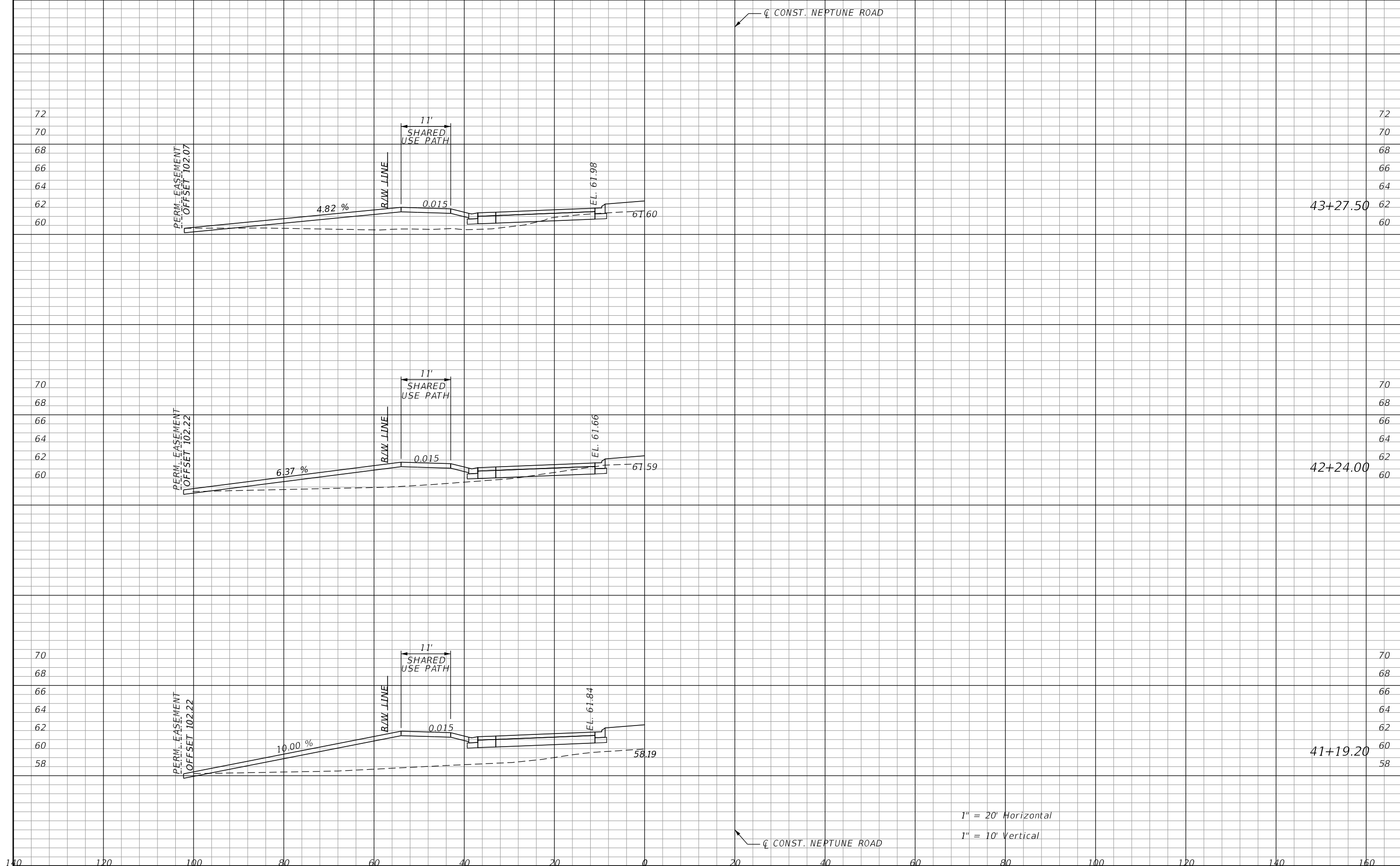
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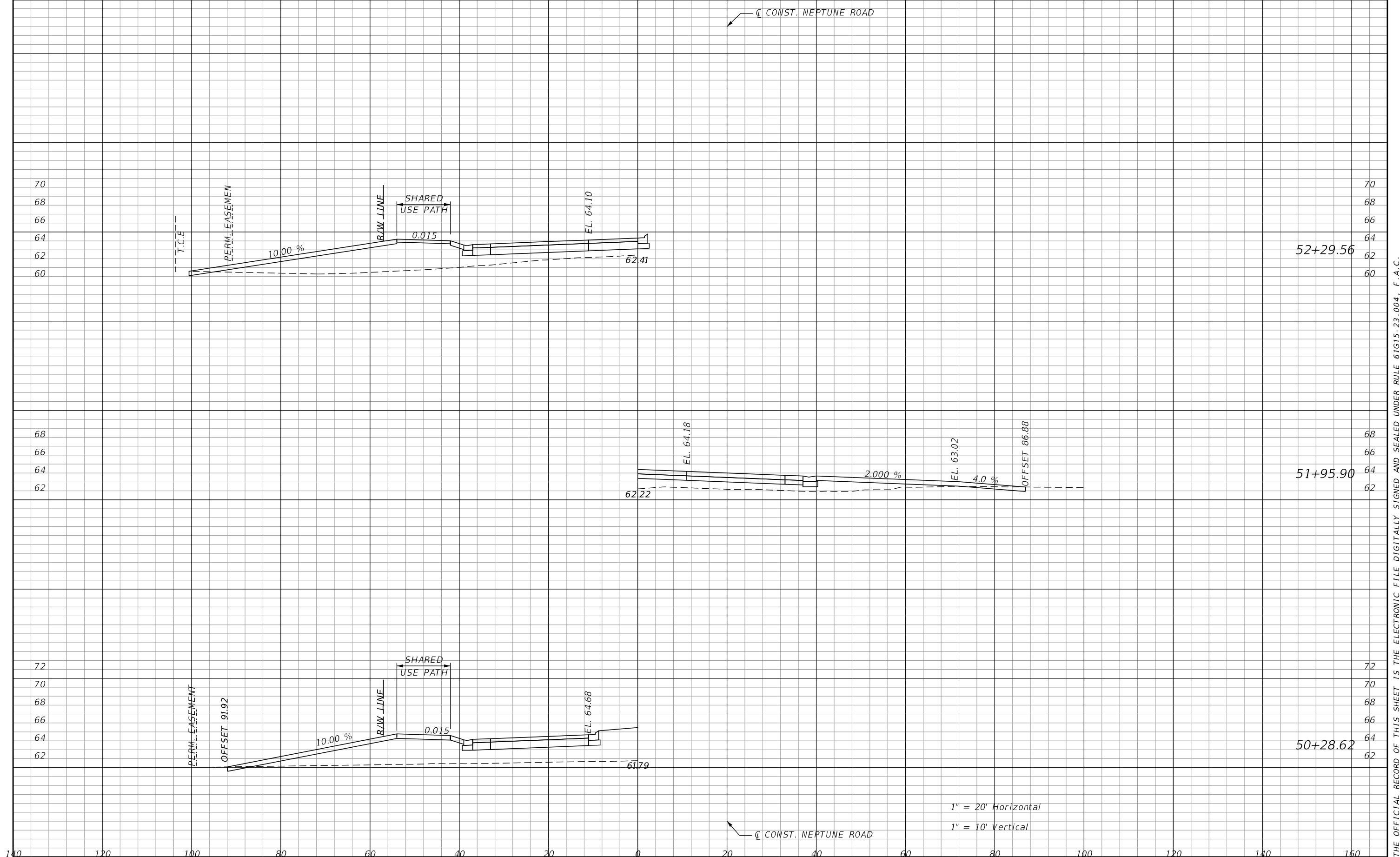
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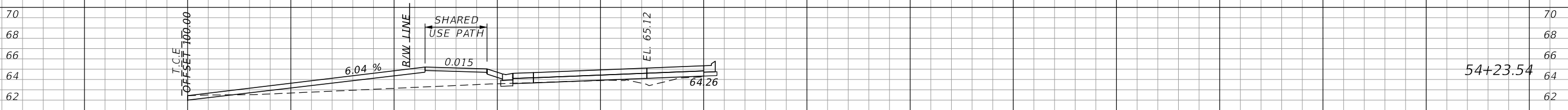
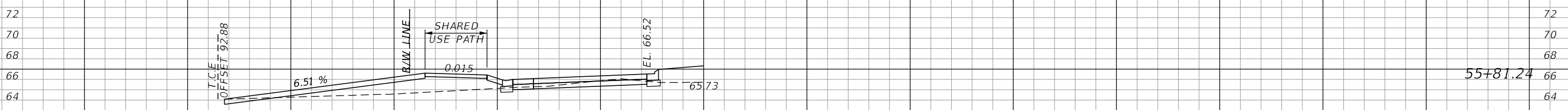
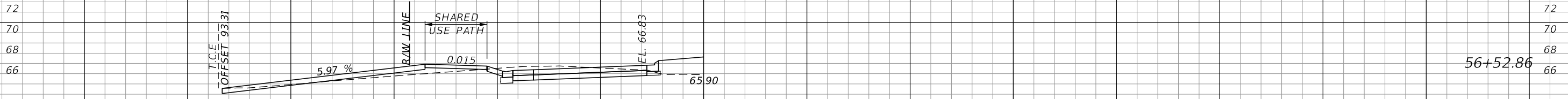
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CONST. NEPTUNE ROAD



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CONST. NEPTUNE ROAD

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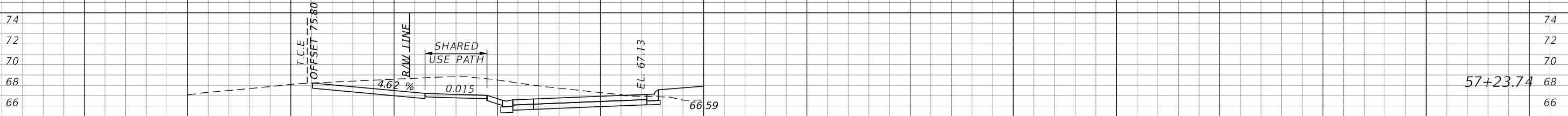
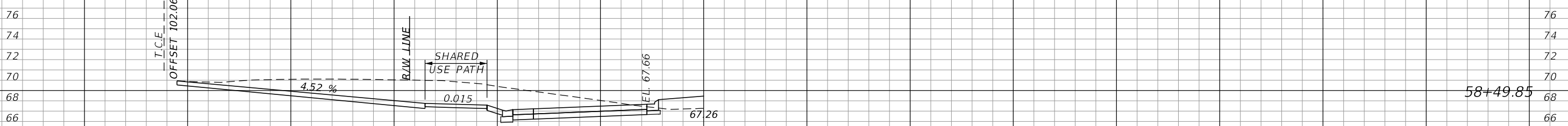
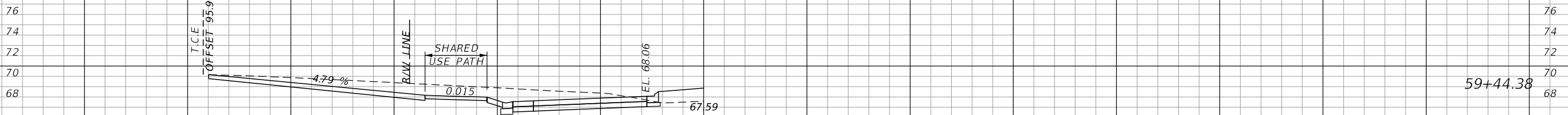
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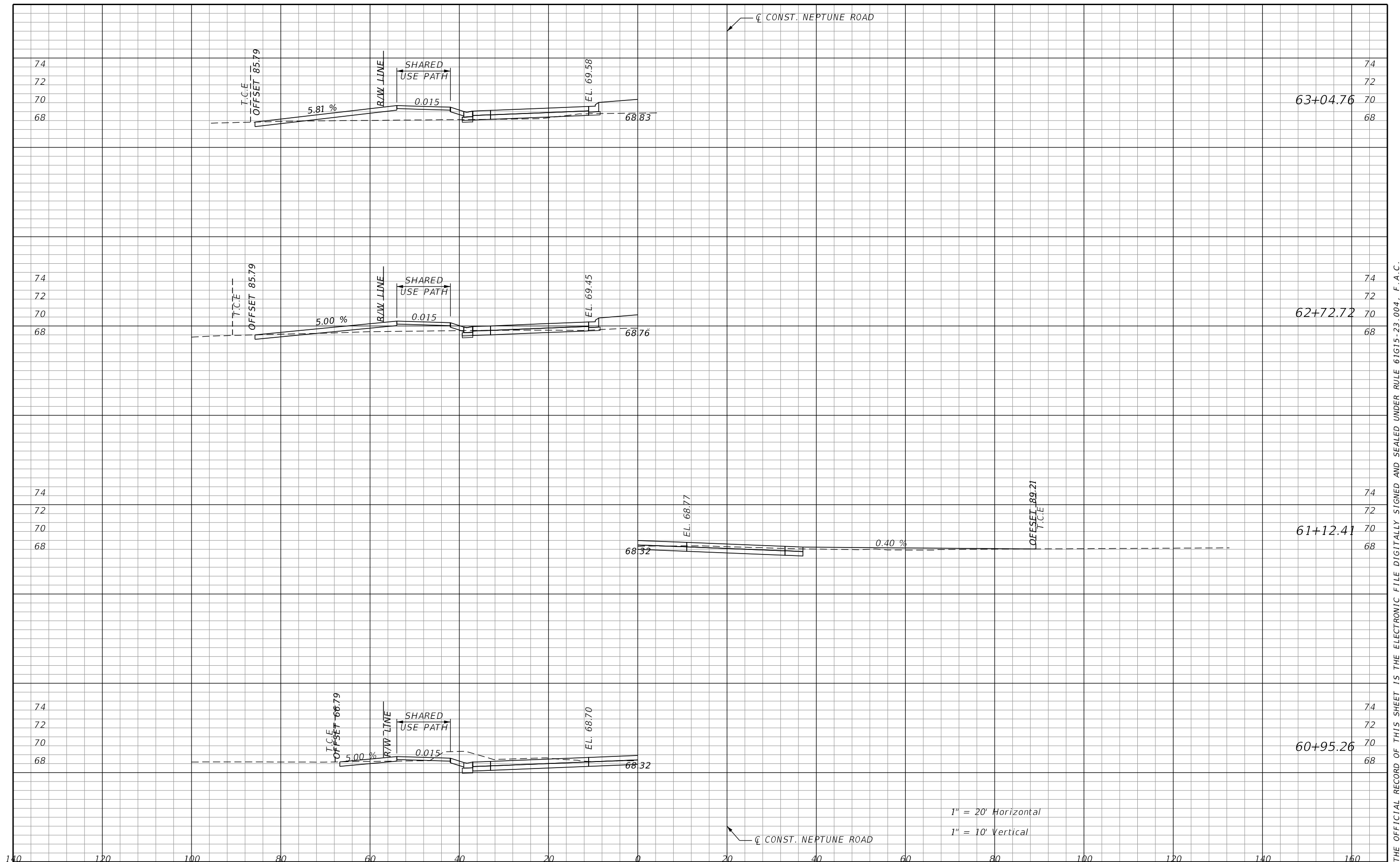


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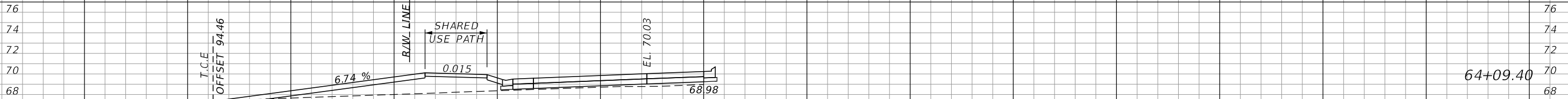
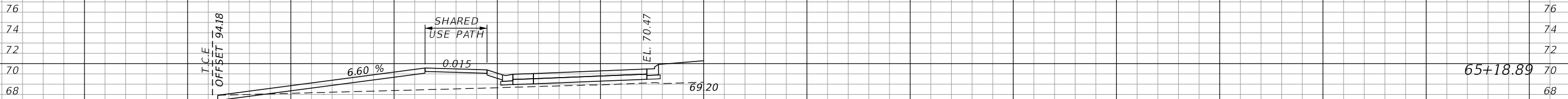
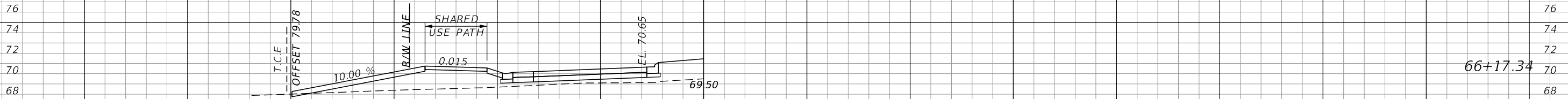


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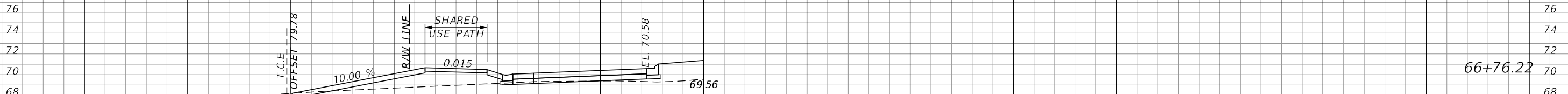
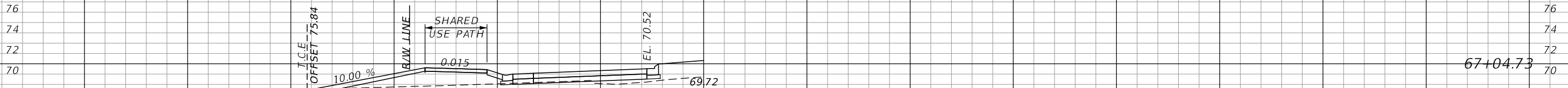
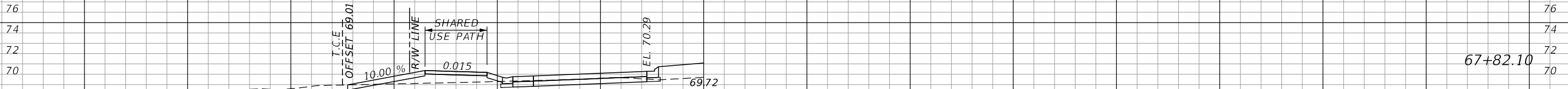
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SHEET NO.
178

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CONST. NEPTUNE ROAD



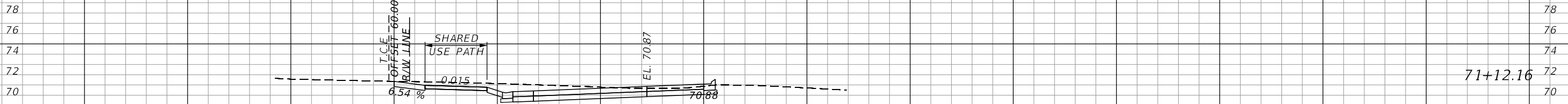
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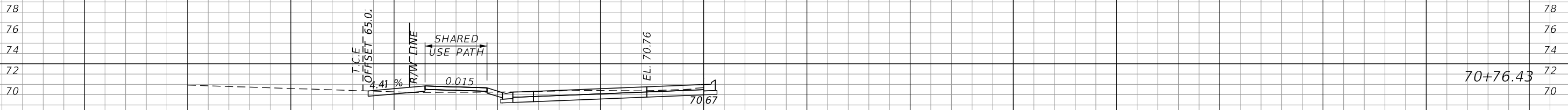
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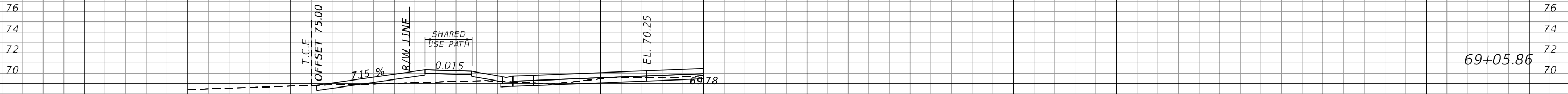
CONST. NEPTUNE ROAD



71+12.16



70+76.43



69+05.86

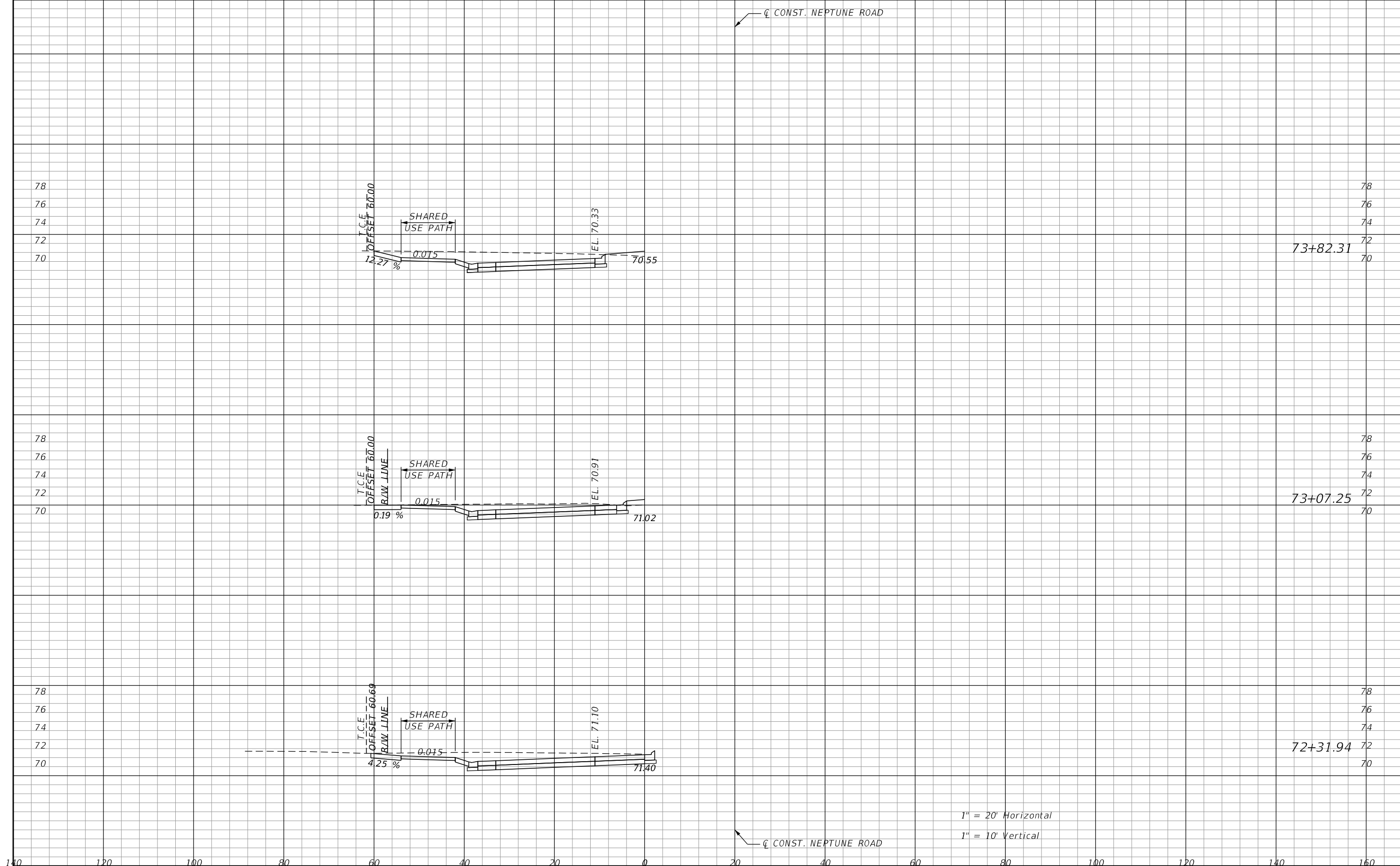
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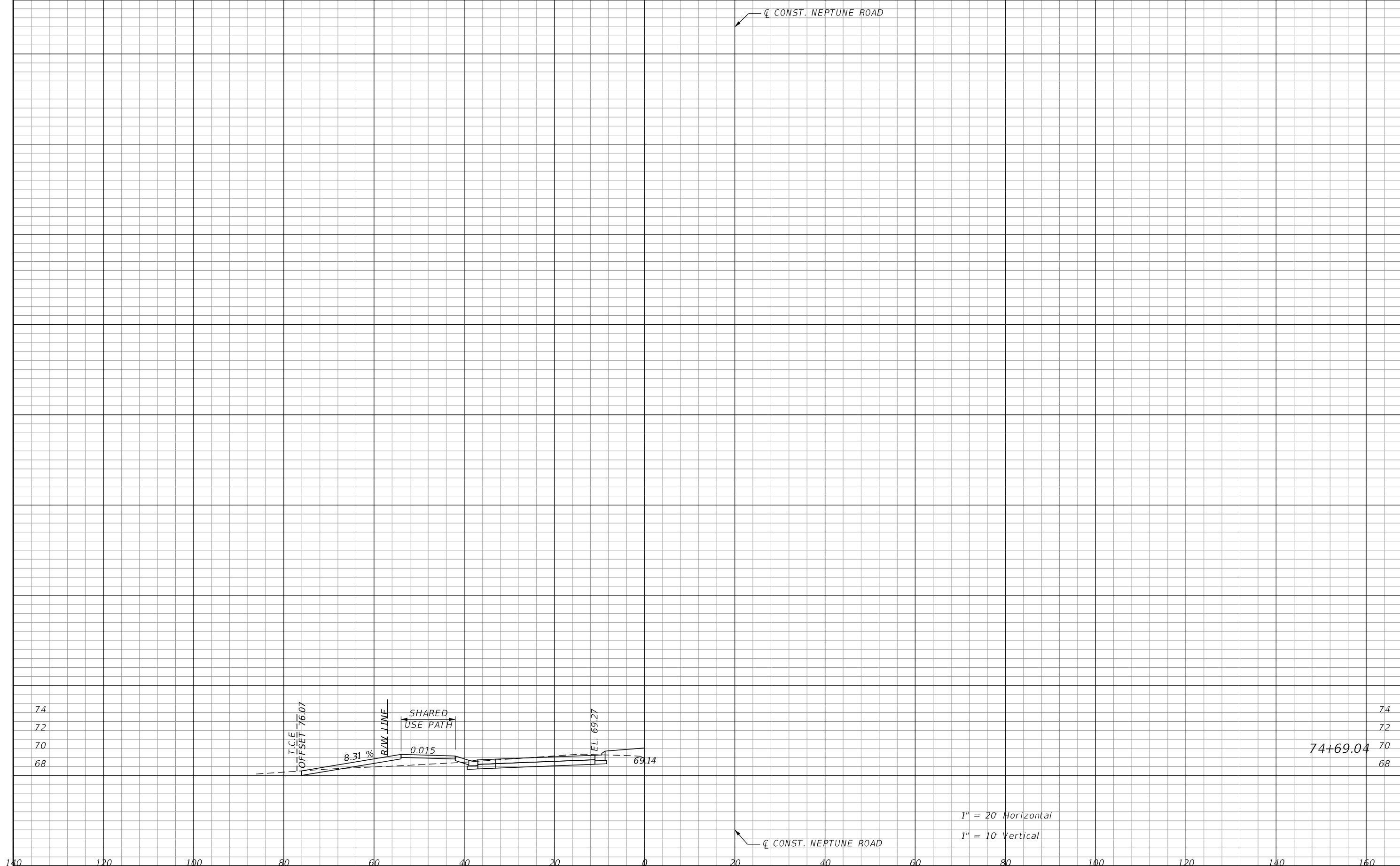


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SHEET
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THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE STANDARD PLANS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. THE FIRST SHEET OF THE CONSTRUCTION PLANS (CALLED THE KEY SHEET) CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS: THIS NARRATIVE DESCRIPTION, THE DOCUMENTS REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN REQUIRED BY SPECIFICATION SECTION 104, AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

1.0 SITE DESCRIPTION:

1.A. NATURE OF CONSTRUCTION ACTIVITY:

THIS CAPACITY RECONSTRUCTION PROJECT PRIMARILY CONSISTS OF WIDENING NEPTUNE ROAD FROM TWO (2) LANE RURAL ROADWAY TO FOUR (4) LANE URBAN ROADWAY FROM EAST OF PARTIN-SETTLEMENT ROAD TO KINGS CREST ROAD. ADDITIONAL RIGHT-OF-WAY WILL BE REQUIRED. THE PROPOSED TYPICAL SECTION FOR THIS CORRIDOR CONSISTS OF 2-11' TRAVEL LANES AND 4' BICYCLE LANE IN EACH DIRECTION SEPARATED BY A 22' RAISED MEDIAN INCLUDING TYPE F CURB AND GUTTER. SHARED USE PATH SHALL BE CONSTRUCTED ON BOTH SIDES OF NEPTUNE ROAD.

1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER. FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

1. CLEARING AND GRUBBING, EARTHWORK, AND STORM DRAIN CONSTRUCTION FOR THE OUTFALL FROM THE PONDS.
2. CLEARING AND GRUBBING, EARTHWORK FOR POND CONSTRUCTION.
3. STORM DRAIN AND ROADWAY CONSTRUCTION. CONSTRUCT THE STORM DRAIN PIPE IN THE UPSTREAM DIRECTION.
4. EARTHWORK ASSOCIATED WITH THE CONSTRUCTION OF ROADWAY, GRAVITY WALL, CURB, SUBGRADE, BASE, PAVEMENT, AND SIDEWALK.

1.C. AREA ESTIMATES:

TOTAL SITE AREA: 32.55 ACRES.
TOTAL AREA TO BE DISTURBED: 32.55 ACRES.

1.D. RUNOFF DATA:

RUNOFF CURVE NUMBERS:
BEFORE: 84
DURING: VARIES FROM 84 TO 96
AFTER: 96

SOILS DATA: THE RESULTS OF THE SOIL BORINGS ALONG THE ROADWAY ARE SHOWN IN THE ROADWAY SOIL SURVEY SHEET(S). THE RESULTS OF SOIL BORINGS DONE IN THE PONDS ARE SHOWN ON THE POND DETAIL SHEETS. THE NUMBERS FOR THESE ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS. IN GENERAL, THE SOILS ARE FINE SANDS.

OUTFALL INFORMATION:

THERE ARE 2 OUTFALLS.

#1 DESCRIPTION: POND 100A/CROSS PRAIRIE PARKWAY
LOCATION: LATITUDE 28° 16' 29.92"N, LONGITUDE, 81° 21' 27.81"W.
EST. DRAINAGE AREA SIZE: 8.86 ACRES.
RECEIVING WATER NAME: PARTIN-SETTLEMENT/FISH LAKE CANAL

#2 DESCRIPTION: POND 100B/CANEBRAKE POND.

LOCATION: LATITUDE 28° 16' 14.48"N, LONGITUDE 81° 21' 16.77"W.
EST. DRAINAGE AREA SIZE: 15.89 ACRES.
RECEIVING WATER NAME: KINDRED WETLAND

1.E. SITE MAP:

THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLAN SHEETS REFERENCED ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS.

* DRAINAGE PATTERNS: THE DRAINAGE BASIN DIVIDES AND FLOW DIRECTIONS ARE SHOWN ON THE DRAINAGE MAPS. ON-SITE DRAINAGE PATTERNS CAN BE SEEN IN FURTHER DETAIL ON THE PROFILE SHEETS.

* APPROXIMATE SLOPES: THE SLOPES OF THE SITE CAN BE SEEN IN THE CROSS SECTION SHEETS AND THE PROFILE SHEETS. THERE ARE POND CROSS SECTIONS LOCATED WITH THE POND DETAIL SHEETS.

* AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE PLAN-PROFILE SHEETS, THE CROSS SECTION SHEETS, AND THE POND DETAIL SHEETS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.

* LOCATIONS OF TEMPORARY CONTROLS: THESE ARE SHOWN ON THE EROSION CONTROL SHEETS. TABLES PROVIDING SUMMARIES OF TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS ARE PROVIDED IN THE SUMMARY OF QUANTITY SHEETS.

* LOCATIONS OF PERMANENT CONTROLS: THE STORMWATER PONDS ARE THE PRIMARY PERMANENT STORMWATER MANAGEMENT CONTROLS. THESE ARE SHOWN ON THE POND DETAIL SHEETS.

* AREAS TO BE STABILIZED: TEMPORARY STABILIZATION PRACTICES ARE SHOWN IN THE SAME LOCATION AS THE TEMPORARY CONTROLS MENTIONED ABOVE. PERMANENT STABILIZATION IS SHOWN ON THE TYPICAL SECTION SHEETS, THE PLAN SHEETS, PROFILE SHEETS AND THE POND DETAIL SHEETS.

* SURFACE WATERS: THE SURFACE WATER WITHIN THE SITE IS THE PARTIN-SETTLEMENT/FISH LAKE CANAL WHICH FLOWS WEST TO LAKE TOHOPEKALIGA AND ULTIMATELY TO LAKE OKEECHOBEE AND THE GULF OF MEXICO.

1.F. RECEIVING WATERS:

SEE ITEM 1.D FOR THE OUTFALL LOCATIONS AND RECEIVING WATER NAMES. THERE ARE WETLAND AREAS WITHIN THE PROPOSED POND SITES.


2.0 CONTROLS:

2.A. EROSION AND SEDIMENT CONTROLS:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES BASED ON THE CONTRACTOR'S PROPOSED TEMPORARY TRAFFIC CONTROL(TTC) PLAN. THE FOLLOWING RECOMMENDED GUIDELINES ARE BASED ON THE TEMPORARY TRAFFIC CONTROL PLAN OUTLINED IN THE CONSTRUCTION PLANS. WHERE FOLLOWING THE TEMPORARY TRAFFIC CONTROL PLAN OUTLINED IN THESE CONSTRUCTION PLANS, THE CONTRACTOR MAY CHOOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN THE SEDIMENT AND EROSION CONTROL PLAN, SUBJECT TO APPROVAL BY THE ENGINEER. AS WORK PROGRESSES, THE CONTRACTOR SHALL MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATION, CHANGES IN CONSTRUCTION ACTIVITIES, AND THE NEED FOR BETTER PRACTICES.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

REFER TO THE EROSION CONTROL PLANS FOR BMP PLACEMENT AND TEMPORARY TRAFFIC CONTROL PLANS FOR PHASING.

REVISIONS				DAVID R. VERLANDER, P.E. P.E. LICENSE NUMBER 81420 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801	 OSCEOLA COUNTY TRANSIT AND TRANSPORTATION 1 COURTHOUSE SQUARE, SUITE 3100 KISSIMMEE, FLORIDA 34741-5488 PHONE:(407) 742-0662 FAX:(407) 742-0600	STORMWATER POLLUTION PREVENTION PLAN		SHEET NO.
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2.A.1 STABILIZATION PRACTICES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TEMPORARY:

- * TURF AND SOD IN ACCORDANCE WITH SPECIFICATION SECTION 104.

PERMANENT:

- * ASPHALT OR CONCRETE SURFACE.
- * SOD IN ACCORDANCE WITH SPECIFICATION SECTION 570.

2.A.2 STRUCTURAL PRACTICES:

IN THE EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

TEMPORARY:

- * SEDIMENT BARRIERS IN ACCORDANCE WITH SPECIFICATION SECTION 104 AND THE EROSION & SEDIMENT CONTROL (ES&C) MANUAL.
- * FLOATING TURBIDITY BARRIERS IN ACCORDANCE WITH SPECIFICATION SECTION 104 AND THE EROSION & SEDIMENT CONTROL (ES&C) MANUAL.* INLET PROTECTION IN ACCORDANCE WITH SPECIFICATION SECTION 104 AND ES&C MANUAL.
- * SEDIMENT CONTAINMENT SYSTEM: THE PERMANENT STORMWATER PONDS WILL BE TEMPORARILY MODIFIED ACCORDING TO THE DETAILS IN THE TTC PLAN.

PERMANENT:

- * STORMWATER PONDS.
- * SOD.

2.B STORMWATER MANAGEMENT:

SEVERAL STORM DRAIN SYSTEMS WILL BE CONSTRUCTED TO CONVEY RUNOFF TO SIX (6) STORMWATER DETENTION PONDS. THE FACILITIES HAVE BEEN PERMITTED BY THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD).

2.C OTHER CONTROLS:

2.C.1 WASTE DISPOSAL:

IN THE EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

- * PROVIDING LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES.
- * DISPOSING OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
- * DISPOSING OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS, OR WETLANDS.

2.C.2 OFF-SITE VEHICLE TRACKING & DUST CONTROL:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

- * COVERING LOADED HAUL TRUCKS WITH TARPULINS.
- * REMOVING EXCESS DIRT FROM ROADS DAILY.
- * CONSTRUCTING SOIL TRACKING PREVENTION DEVICE(S) PER THE FLORIDA EROSION AND SEDIMENT CONTROL MANUAL.
- * USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.

2.C.3 STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS:

THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.

2.C.4 FERTILIZERS AND PESTICIDES:

IN THE EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES. THE PROPOSED PROCEDURES SHALL COMPLY WITH APPLICABLE SUBSECTIONS OF SECTION 570 OF THE SPECIFICATIONS.

2.C.5 TOXIC SUBSTANCES:

IN THE EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.

2.D.4 FEDERAL, STATE AND LOCAL PLANS AND PERMITS:


- * PERMITS WILL BE OBTAINED AT 100% UPDATE

SWERP (STORMWATER AND WETLANDS)	SFWMD
NPDES (CONSTRUCTION ACTIVITY)	FDEP
NATIONWIDE PERMIT	ACOE

3.0 MAINTENANCE:

IN THE EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL AT A MINIMUM, COMPLY WITH THE FOLLOWING:

- * SEDIMENT BARRIERS: REMOVE SEDIMENT AS PER MANUFACTURER'S RECOMMENDATIONS OR WHEN WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS.
- * RUTS FROM SEDIMENT BARRIERS SHALL BE REPAIRED.
- * ALL PONDS ARE TEMPORARY SEDIMENT BASINS UNTIL THE AREAS THAT DRAIN TO THEM ARE STABILIZED, SO UNTIL THEN, REMOVE SEDIMENT FROM THE POND WHEN IT BECOMES 1.5' DEEP AT ANY POINT.

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DATE	DESCRIPTION	DATE	DESCRIPTION					184

4.0 INSPECTIONS:

QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES AND RECORD THE DAILY RAINFALL. INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.


- * POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.
- * POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM DRAIN SYSTEMS.
- * DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
- * AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
- * STRUCTURAL CONTROLS.
- * STORMWATER MANAGEMENT SYSTEMS.
- * LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

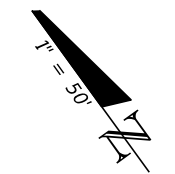
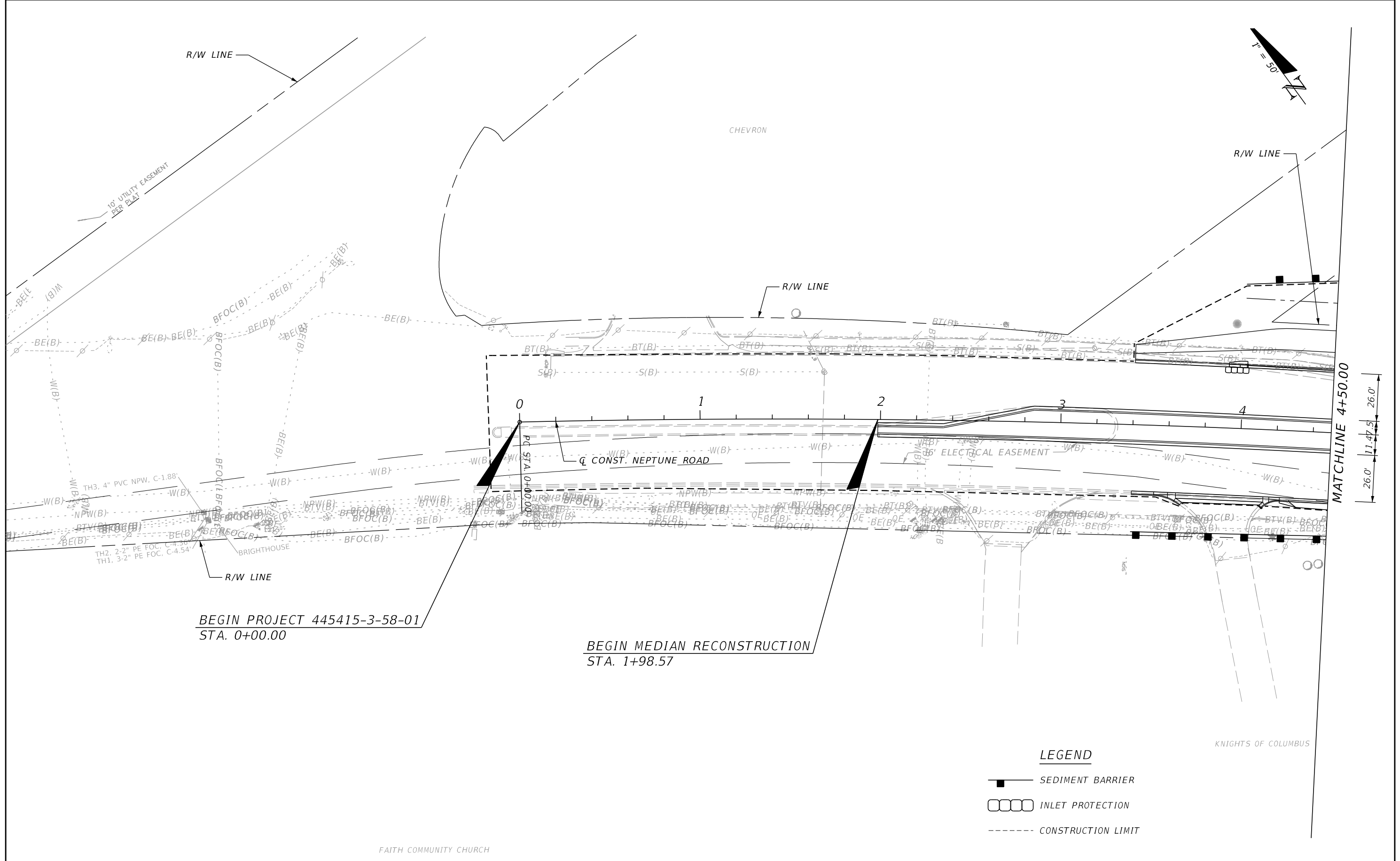
THE CONTRACTOR SHALL INITIATE REPAIRS IMMEDIATELY IF INSPECTIONS INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER.

IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER.




5.0 NON-STORMWATER DISCHARGES:

IN THE SPECIFICATIONS SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION OF THESE NON-STORMWATER DISCHARGES. IF THE CONTRACTOR ENCOUNTERS CONTAMINATED SOIL OR GROUNDWATER, CONTACT DISTRICT CONTAMINATION IMPACT COORDINATOR, JEREMY BUCHANON AT (407) 742-0662.

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DATE	DESCRIPTION	DATE	DESCRIPTION					185



LEGEND

-  SEDIMENT BARRIER
-  INLET PROTECTION
-  CONSTRUCTION LIMIT

BEGIN PROJECT 445415-3-58-01
STA. 0+00.00

BEGIN MEDIAN RECONSTRUCTION
STA. 1+98.57

MATCHLINE 4+50.00

26.0'
11.47.5'
26.0'

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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ORLANDO, FL 32801



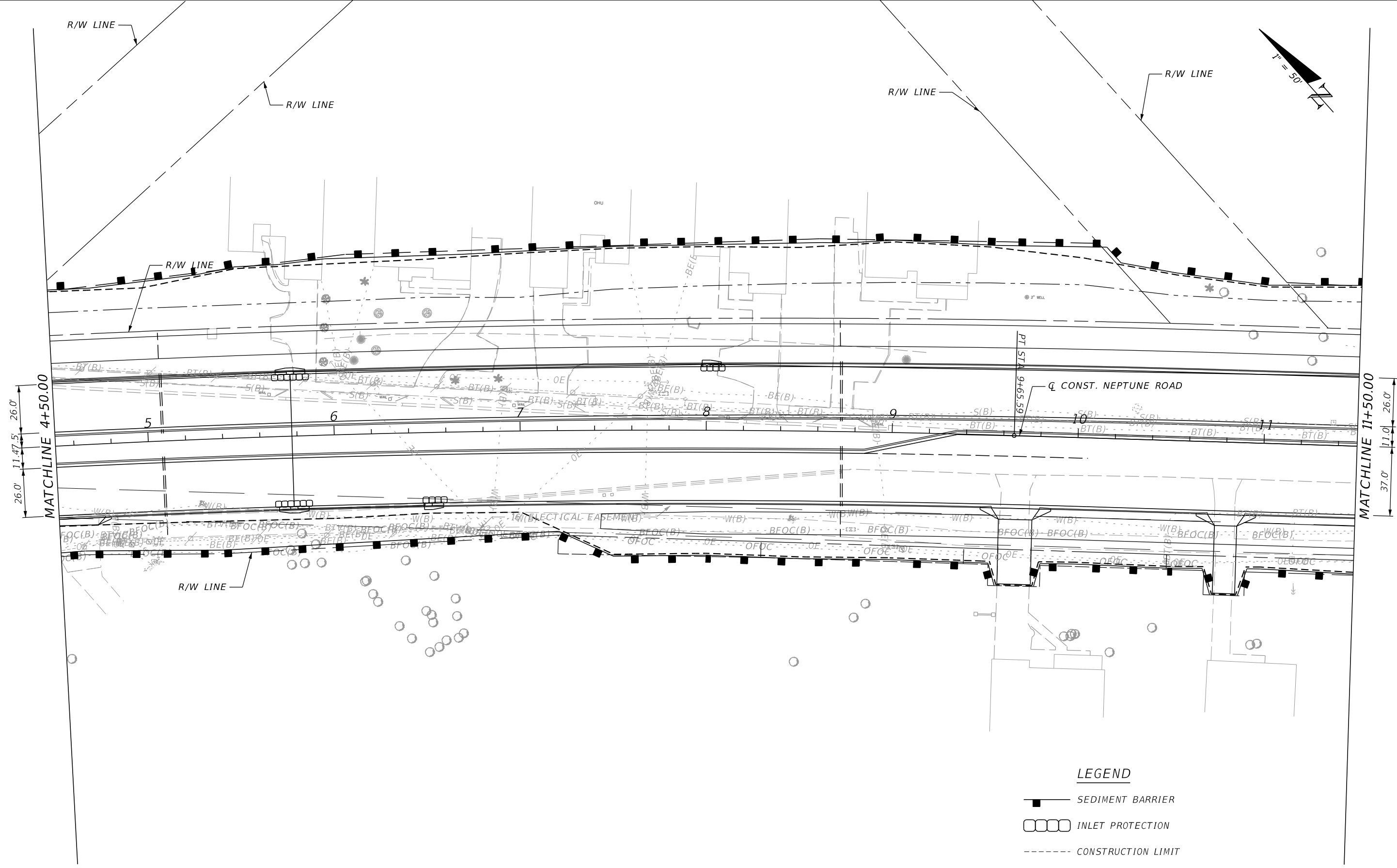
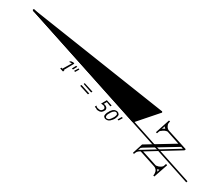
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KISSIMMEE, FLORIDA 34741-5488
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EROSION CONTROL PLAN (1)

SHEET NO.
186


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- LEGEND**
-  SEDIMENT BARRIER
 -  INLET PROTECTION
 -  CONSTRUCTION LIMIT

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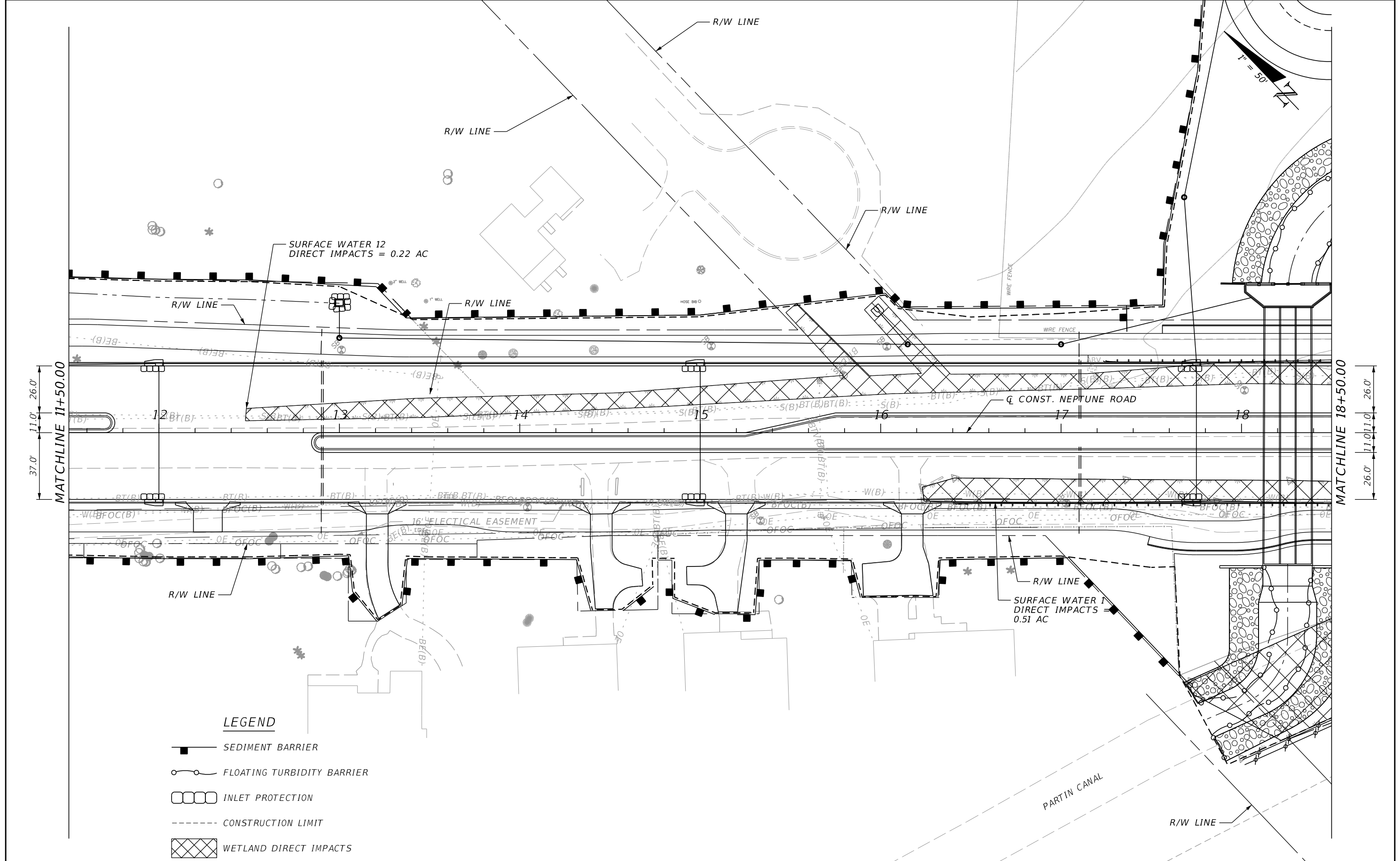
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EROSION CONTROL PLAN (2)

SHEET
 NO.
187

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LEGEND

-  SEDIMENT BARRIER
-  FLOATING TURBIDITY BARRIER
-  INLET PROTECTION
-  CONSTRUCTION LIMIT
-  WETLAND DIRECT IMPACTS

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

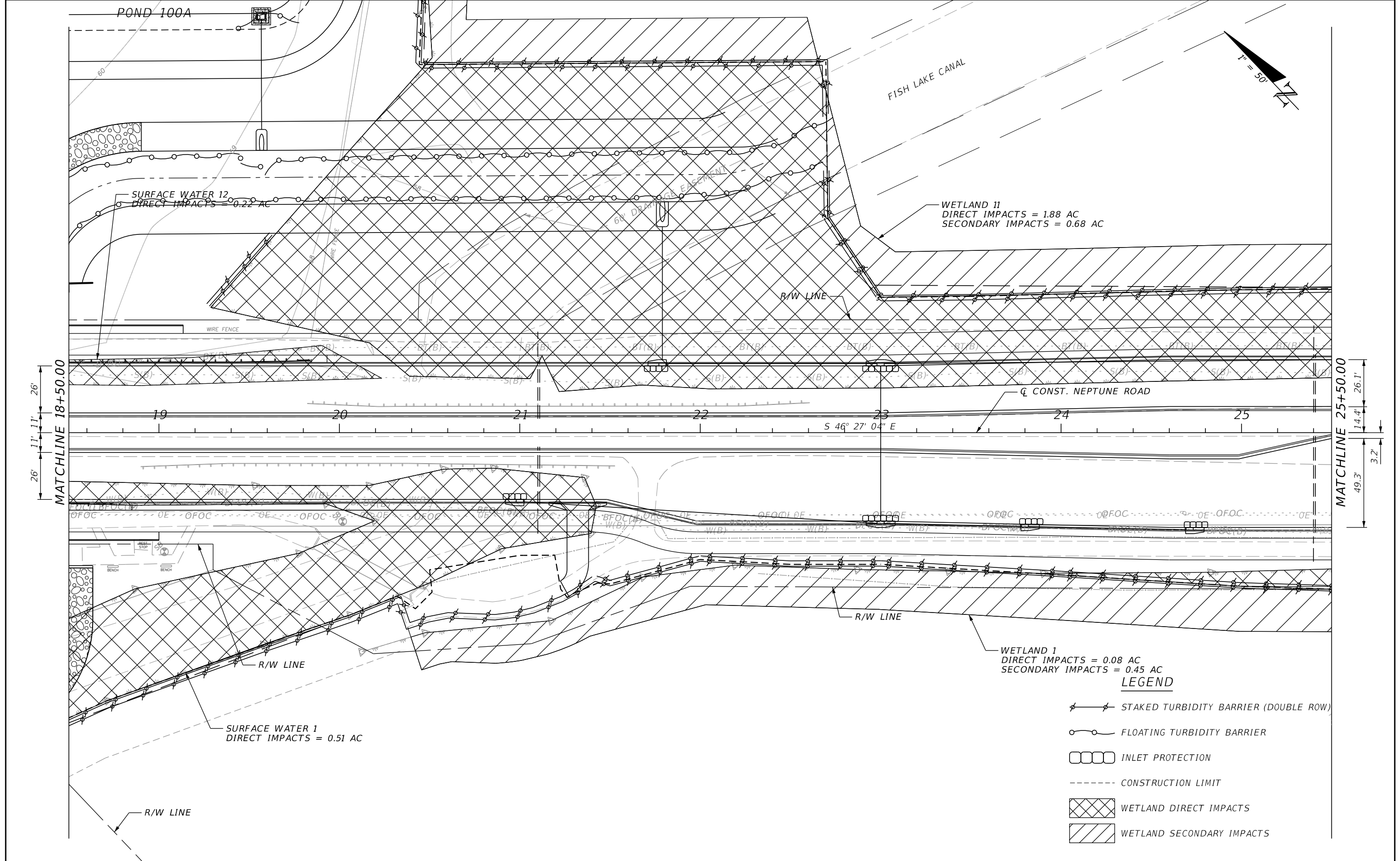
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EROSION CONTROL PLAN (3)

SHEET
 NO.
188

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

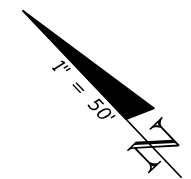
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EROSION CONTROL PLAN (4)

SHEET NO.
189

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MATCHLINE STA. 521+00.00 SEE EROSION CONTROL PLAN (14)

STA. 29+68.31 @ C CONST.
NEPTUNE ROAD =
STA. 519+41.67 @ B SURVEY
CROSS PRAIRIE PKWY
R/W LINE

WETLAND 11
DIRECT IMPACTS = 1.88 AC
SECONDARY IMPACTS = 0.68 AC

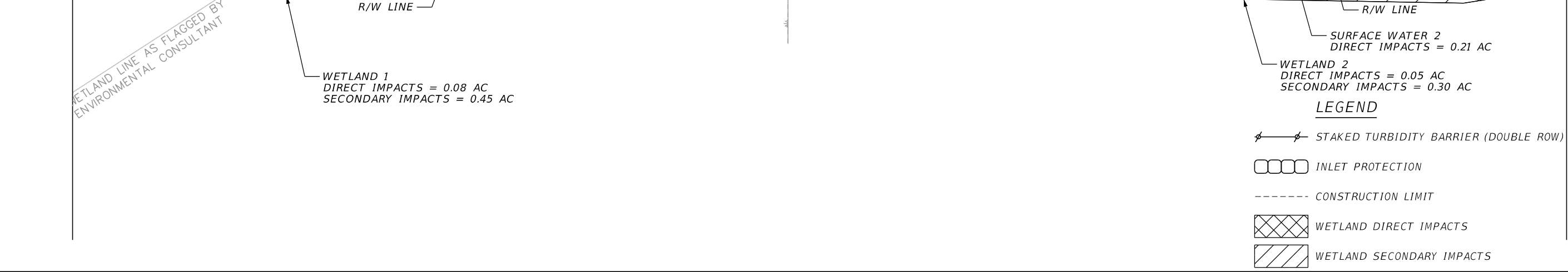
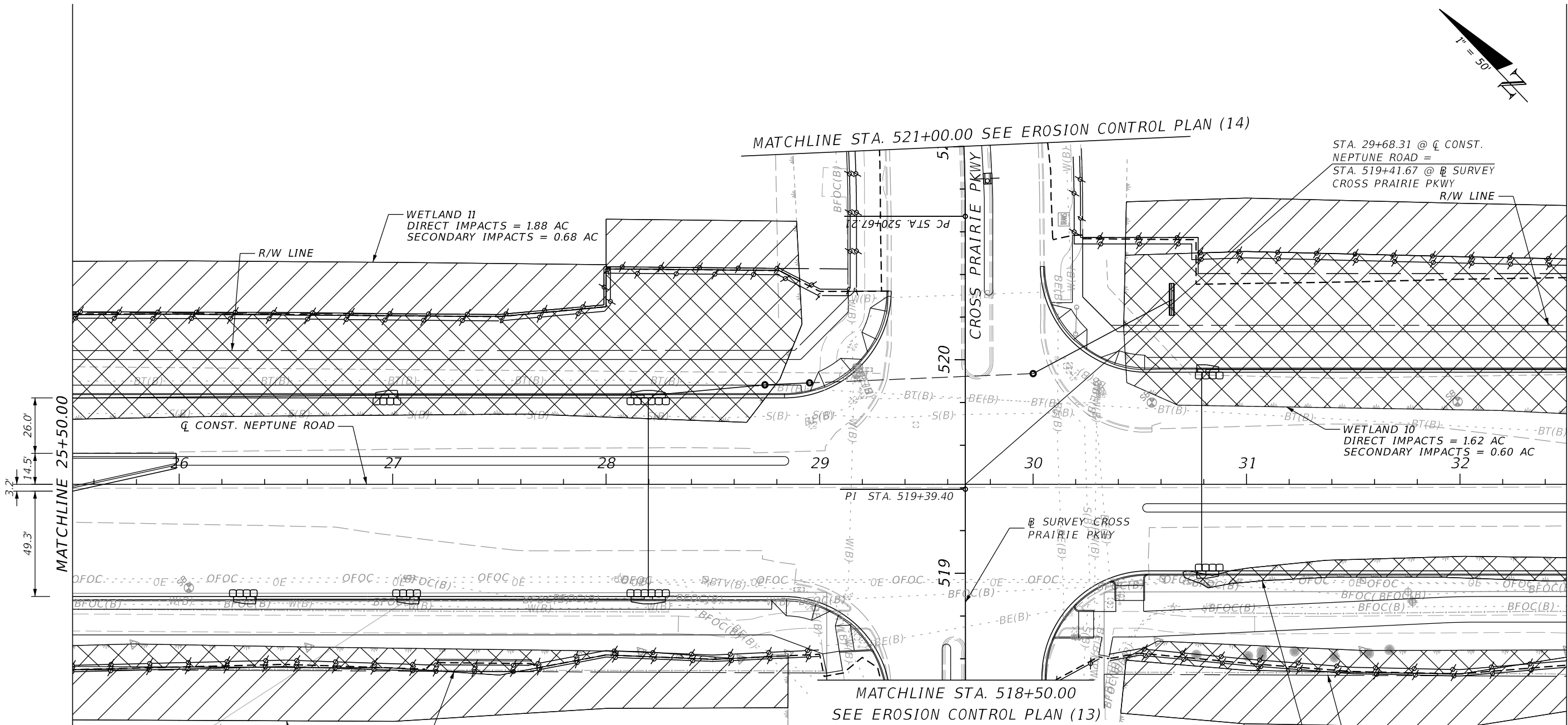
WETLAND 10
DIRECT IMPACTS = 1.62 AC
SECONDARY IMPACTS = 0.60 AC

WETLAND 1
DIRECT IMPACTS = 0.08 AC
SECONDARY IMPACTS = 0.45 AC

SURFACE WATER 2
DIRECT IMPACTS = 0.21 AC
WETLAND 2
DIRECT IMPACTS = 0.05 AC
SECONDARY IMPACTS = 0.30 AC

LEGEND

- STAKED TURBIDITY BARRIER (DOUBLE ROW)
- INLET PROTECTION
- CONSTRUCTION LIMIT
- WETLAND DIRECT IMPACTS
- WETLAND SECONDARY IMPACTS



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

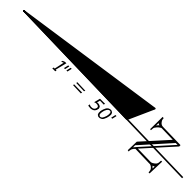
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EROSION CONTROL PLAN (5)

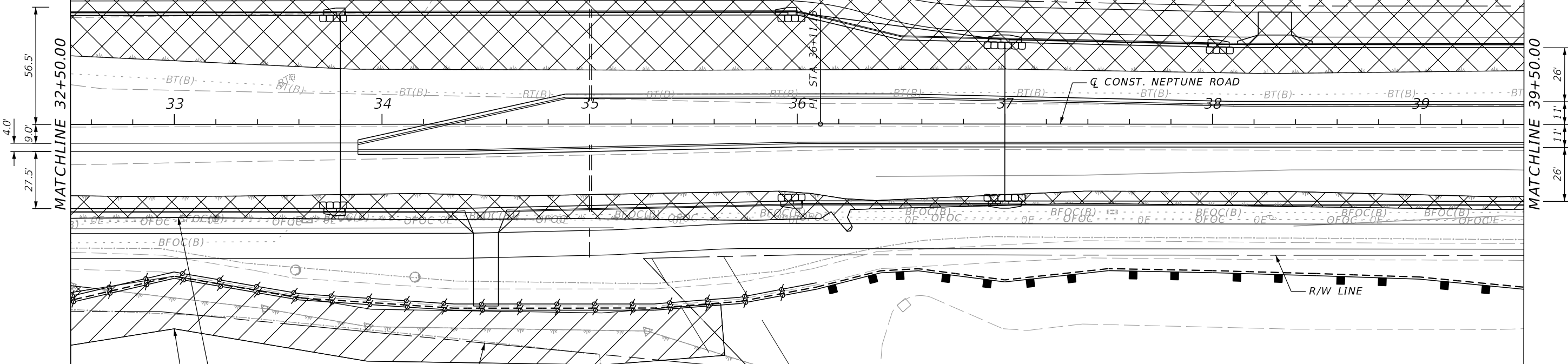
SHEET NO.
190

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WETLAND 10
 DIRECT IMPACTS = 1.62 AC
 SECONDARY IMPACTS = 0.60 AC

R/W LINE



SURFACE WATER 2
 DIRECT IMPACTS = 0.21 AC

WETLAND 2
 DIRECT IMPACTS = 0.05 AC
 SECONDARY IMPACTS = 0.30 AC

POND 100B (CANE BRAKE)

LEGEND

- STAKED TURBIDITY BARRIER (DOUBLE ROW)
- SEDIMENT BARRIER
- INLET PROTECTION
- CONSTRUCTION LIMIT
- WETLAND DIRECT IMPACTS
- WETLAND SECONDARY IMPACTS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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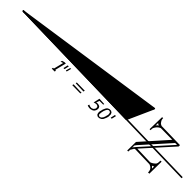


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EROSION CONTROL PLAN (6)

SHEET NO.
191

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WETLAND 10
DIRECT IMPACTS = 1.62 AC
SECONDARY IMPACTS = 0.60 AC

WETLAND 9
DIRECT IMPACTS = 0.73 AC
SECONDARY IMPACTS = 0.31 AC

PERM. EASEMENT LINE

R/W LINE

CONST. NEPTUNE ROAD

S 46° 22' 04" E

SURFACE WATER 2
DIRECT IMPACTS = 0.21 AC

SURFACE WATER 3
DIRECT IMPACTS = 0.18 AC

POND 100B (CANE BRAKE)

LEGEND


- STAKED TURBIDITY BARRIER (DOUBLE ROW)
- SEDIMENT BARRIER
- INLET PROTECTION
- CONSTRUCTION LIMIT
- WETLAND DIRECT IMPACTS
- WETLAND SECONDARY IMPACTS

MATCHLINE 39+50.00

MATCHLINE 46+50.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

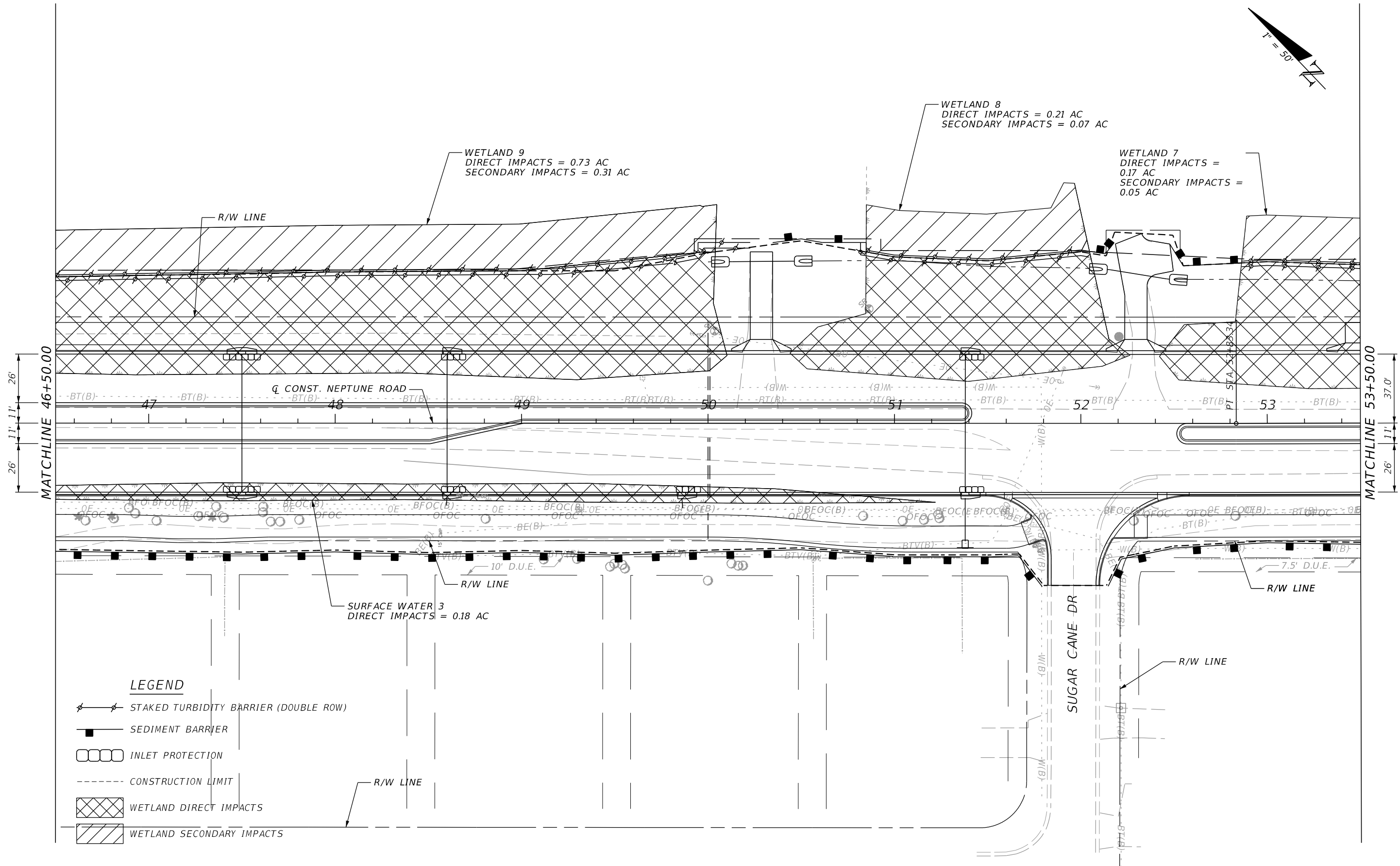
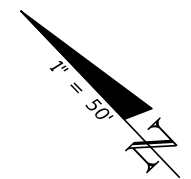
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EROSION CONTROL PLAN (7)

SHEET NO.
192

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WETLAND 9
DIRECT IMPACTS = 0.73 AC
SECONDARY IMPACTS = 0.31 AC

WETLAND 8
DIRECT IMPACTS = 0.21 AC
SECONDARY IMPACTS = 0.07 AC

WETLAND 7
DIRECT IMPACTS = 0.17 AC
SECONDARY IMPACTS = 0.05 AC

SURFACE WATER 3
DIRECT IMPACTS = 0.18 AC

LEGEND

- STAKED TURBIDITY BARRIER (DOUBLE ROW)
- SEDIMENT BARRIER
- INLET PROTECTION
- CONSTRUCTION LIMIT
- WETLAND DIRECT IMPACTS
- WETLAND SECONDARY IMPACTS

REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

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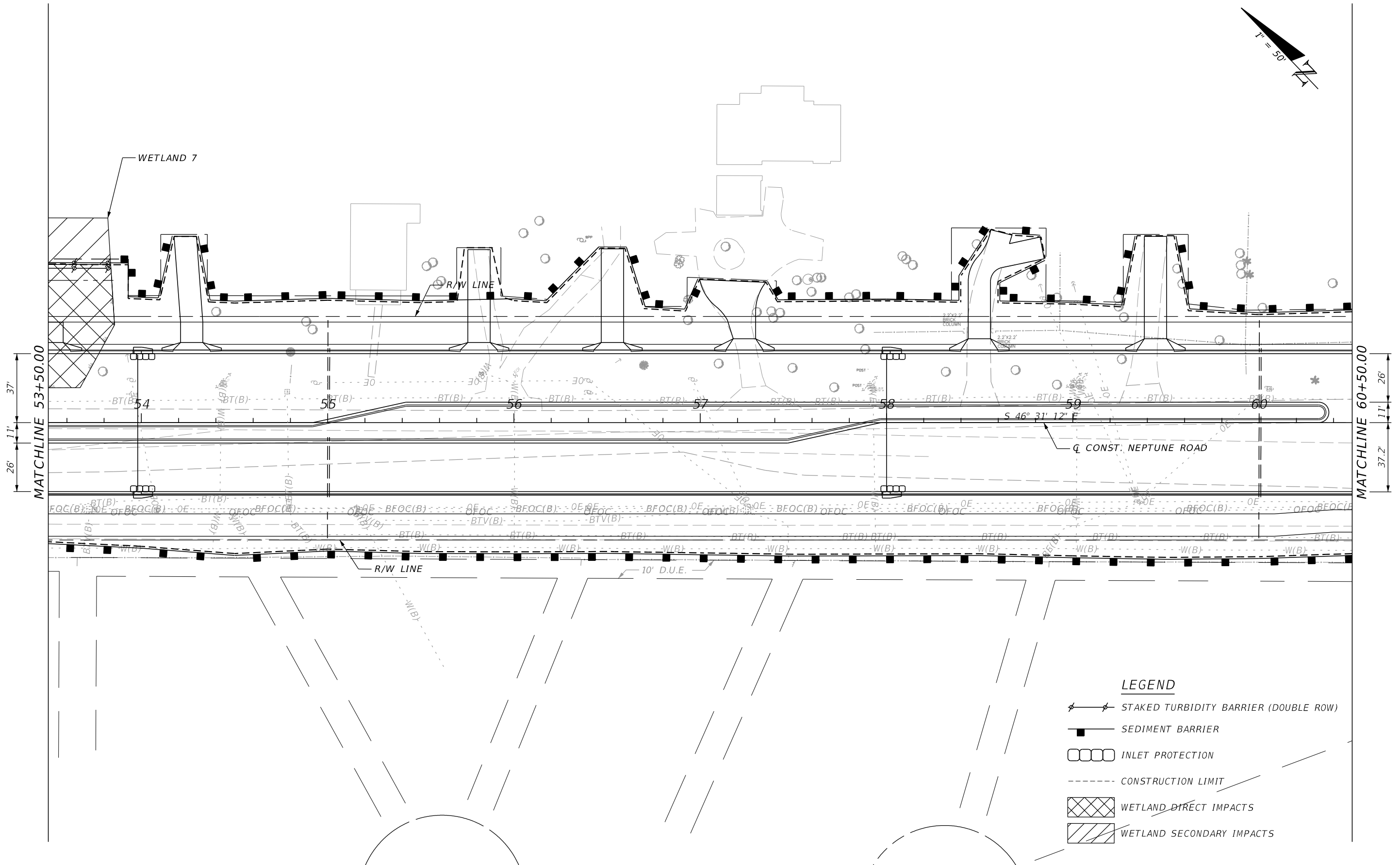
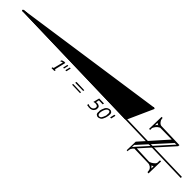


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EROSION CONTROL PLAN (8)

SHEET NO.
193

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- LEGEND**
- STAKED TURBIDITY BARRIER (DOUBLE ROW)
 - SEDIMENT BARRIER
 - INLET PROTECTION
 - CONSTRUCTION LIMIT
 - WETLAND DIRECT IMPACTS
 - WETLAND SECONDARY IMPACTS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

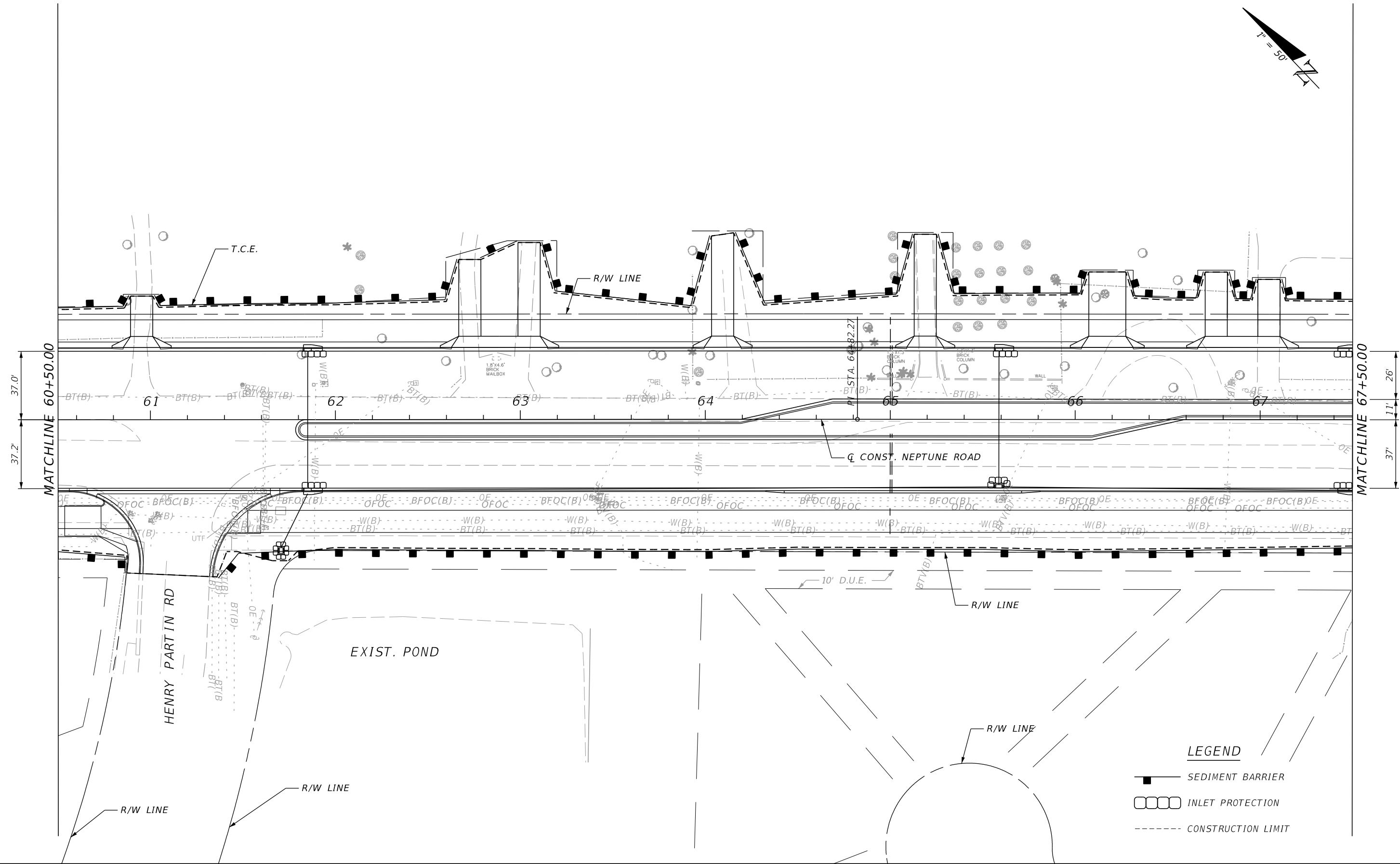
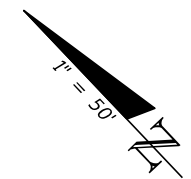
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EROSION CONTROL PLAN (9)

SHEET NO.
194

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LEGEND

- SEDIMENT BARRIER
- INLET PROTECTION
- CONSTRUCTION LIMIT

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
 P.E. LICENSE NUMBER 81420
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

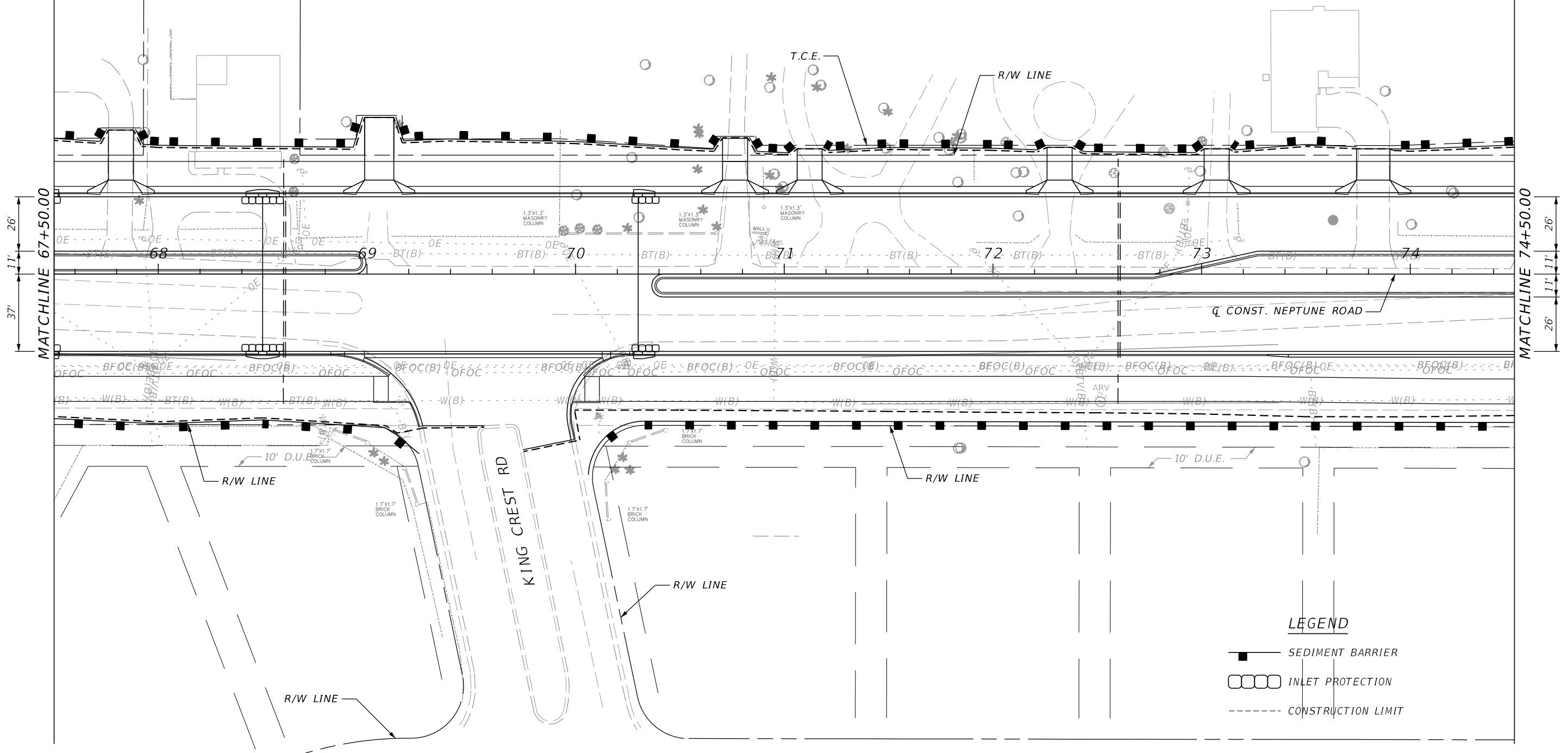
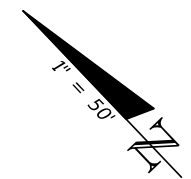


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EROSION CONTROL PLAN (10)

SHEET NO.
195

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LEGEND

	SEDIMENT BARRIER
	INLET PROTECTION
	CONSTRUCTION LIMIT

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
 P.E. LICENSE NUMBER 81420
 GAI CONSULTANTS, INC.
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 ORLANDO, FL 32801



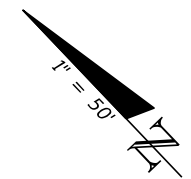
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1 COURTHOUSE SQUARE, SUITE 3100
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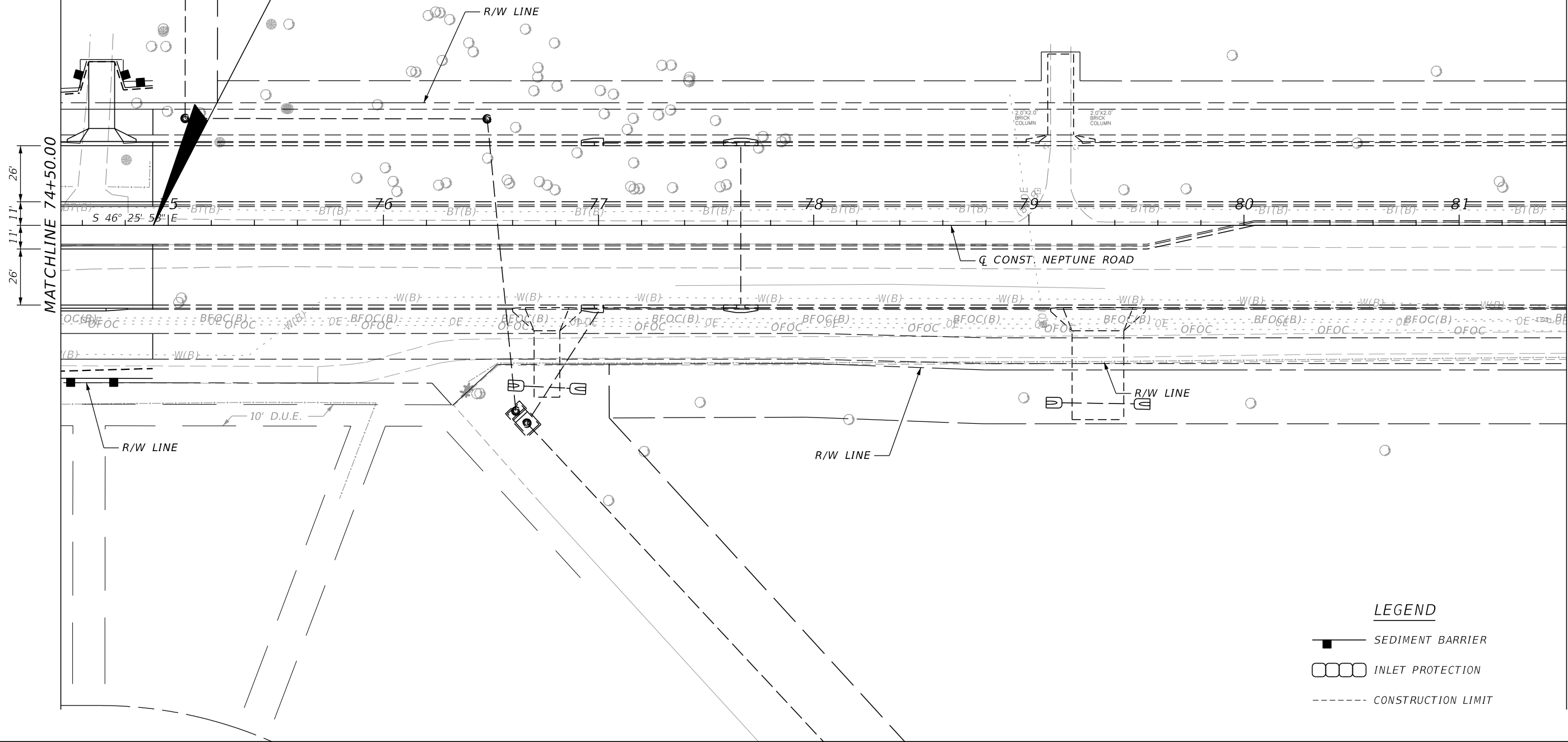
EROSION CONTROL PLAN (11)

SHEET NO.
196




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END PROJECT 445415-3-58-01
 END CONSTRUCTION
 STA. 74+92.75




LEGEND

-  SEDIMENT BARRIER
-  INLET PROTECTION
-  CONSTRUCTION LIMIT

REVISIONS	
DATE	DESCRIPTION

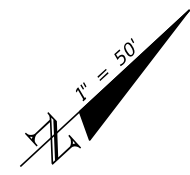
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EROSION CONTROL PLAN (12)

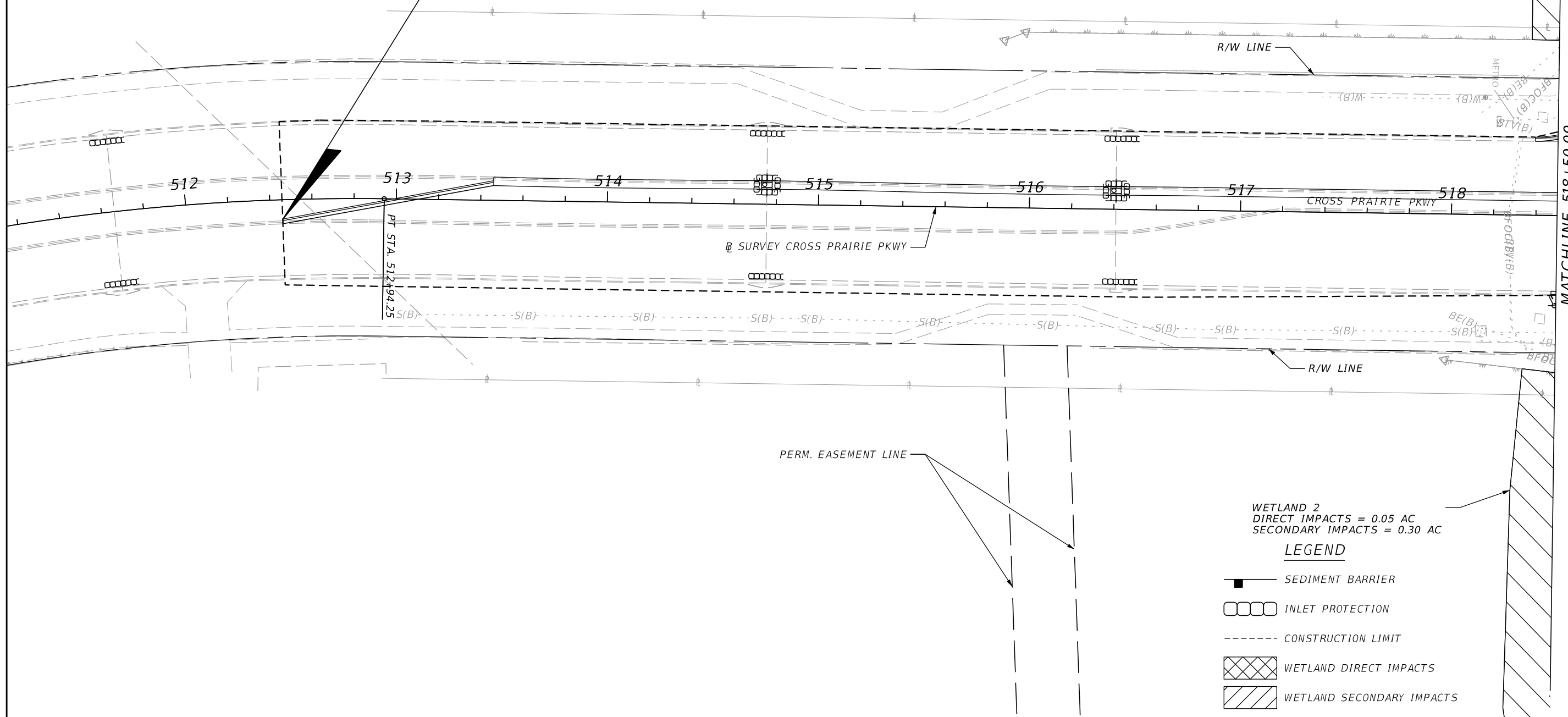
SHEET NO.
197

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WETLAND 1
 DIRECT IMPACTS = 0.08 AC
 SECONDARY IMPACTS = 0.45 AC

BEGIN MILLING
 RESURFACING & WIDENING
 STA. 512+46.00



MATCHLINE 518+50.00
 SEE EROSION CONTROL PLAN (5)


WETLAND 2
 DIRECT IMPACTS = 0.05 AC
 SECONDARY IMPACTS = 0.30 AC

LEGEND

- SEDIMENT BARRIER
- INLET PROTECTION
- CONSTRUCTION LIMIT
- WETLAND DIRECT IMPACTS
- WETLAND SECONDARY IMPACTS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
 P.E. LICENSE NUMBER 81420
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

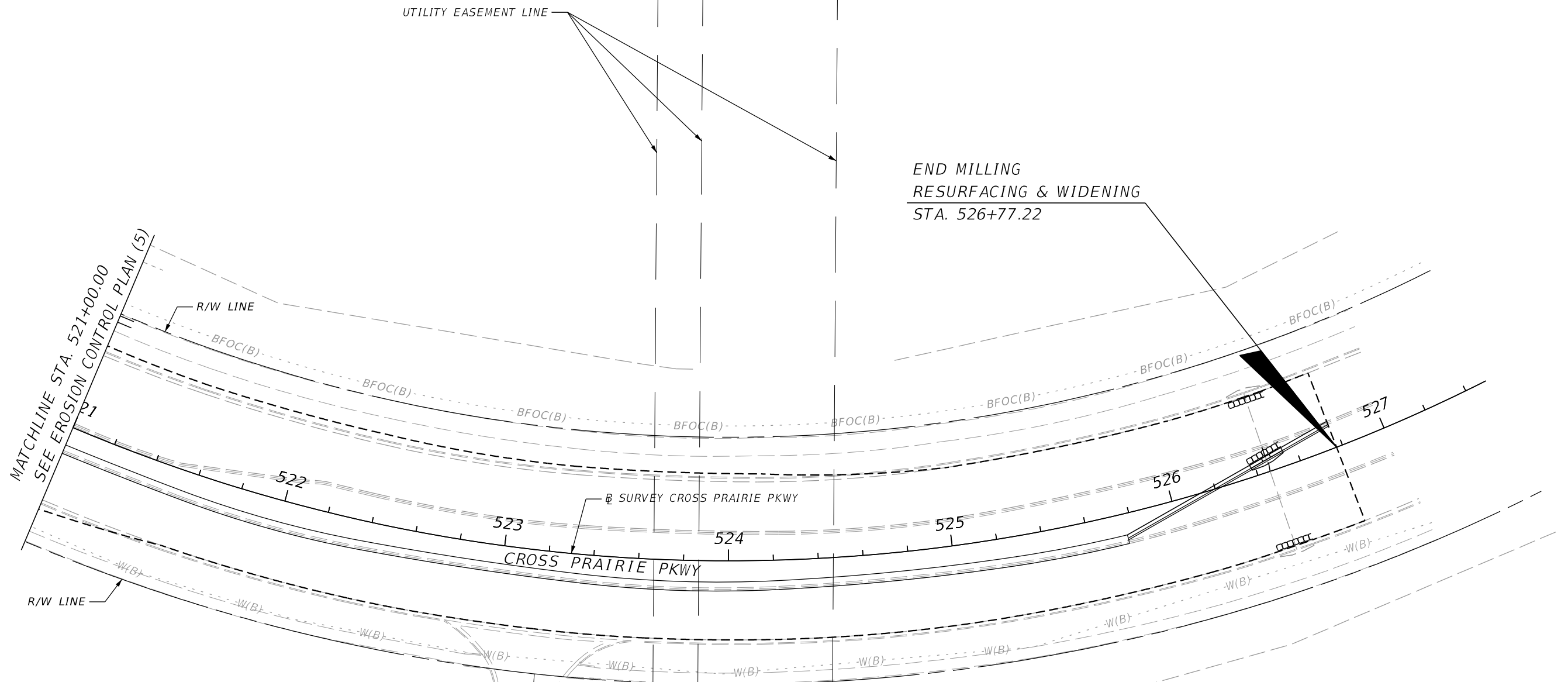
 OSCEOLA COUNTY TRANSIT
 AND TRANSPORTATION
 1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE: (407) 742-0662 FAX: (407) 742-0600

EROSION CONTROL PLAN (13)
CROSS PRAIRIE PKWY

SHEET NO.
198

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1" = 50'



LEGEND

- SEDIMENT BARRIER
- INLET PROTECTION
- CONSTRUCTION LIMIT
- WETLAND DIRECT IMPACTS
- WETLAND SECONDARY IMPACTS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID R. VERLANDER, P.E.
 P.E. LICENSE NUMBER 81420
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT
 AND TRANSPORTATION
 1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
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**EROSION CONTROL PLAN (14)
 CROSS PRAIRIE PKWY**

SHEET
 NO.

199

TTCP GENERAL NOTES

1. MAINTAIN TRAFFIC IN ACCORDANCE WITH FDOT STANDARD PLANS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. THE EXISTING POSTED SPEED LIMIT SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION UNLESS OTHERWISE NOTED IN TEMPORARY TRAFFIC CONTROL PLANS.
 -NEPTUNE ROAD - 40 MPH
 -CROSS PRAIRIE PARKWAY - 30 MPH
3. MAINTAIN SIGNAL TIMINGS, ACTUATION AND PHASING. PROVIDE TEMPORARY VEHICLE STOP BAR DETECTION UTILIZING MICROWAVE, INFRARED OR VIDEO. WHEN APPLICABLE, PROVIDE TEMPORARY CONCRETE STRAIN POLES AND SPAN WIRE SIGNALS. PROVIDE DESIGN CALCULATIONS AND SHOP DRAWINGS FOR THE TEMPORARY SIGNALS.
4. MAINTAIN PEDESTRIAN ACCESS THROUGH THE WORK ZONE FOR BUSINESSES AND RESIDENTS.
5. WHEN LANE CLOSURES ARE REQUIRED AT THE SIGNALIZED INTERSECTIONS, A TRAFFIC CONTROL OFFICER SHALL BE USED.
6. ADVANCE SIGNING SHALL BE PLACED ALONG NEPTUNE ROAD AND SIDE STREETS DURING THE CONSTRUCTION, SEE TTCP ADVANCE SIGNS DETAILS.
7. ANY DROP OFF HAZARD, AS DEFINED BY THE STANDARD PLANS, THAT IS CREATED AND NOT RESTORED WITHIN THE SAME WORK PERIOD SHALL BE SHIELDED AS PER STANDARD PLANS.
8. THE WORK ZONE LENGTH FOR CONSTRUCTION ACTIVITIES REQUIRING LANE CLOSURES SHALL BE LIMITED TO THAT WHICH CAN BE CONSTRUCTED AND OPENED TO TRAFFIC IN A SINGLE WORK PERIOD.
9. LANE CLOSURE RESTRICTIONS:
 NEPTUNE ROAD:
 OPEN ROAD: 6:30 AM TO 8:00 PM
 600 FEET WITHIN SIGNALIZED INTERSECTION : 6:00 AM TO 11:00 PM.
 CROSS PRAIRIE PARKWAY: NO RESTRICTIONS
10. FOR ALL LANE SHIFTS, MERGES AND TRANSITIONS, PLACE PAVEMENT MARKING AND RPMS PER DETAIL IN INDEX 102-600, SHEET 11.
11. TEMPORARY PAVEMENT SHALL BE A MINIMUM, 2" OF TYPE SP ASPHALT (TRAFFIC C), 6" LIMEROCK BASE AND 12" STABILIZATION LBR 40.
12. PORTABLE CHANGEABLE MESSAGE (PCMS) SHALL BE USED TWO WEEKS PRIOR TO AND DURING LANE CLOSURES, DETOURS, ROAD CLOSURES AND LANE SHIFTS. THE MESSAGE AND LOCATION CAN BE CHANGED WITH THE ENGINEERS APPROVAL. PCMS SIGN SHALL BE TURNED OFF AND STORED OUTSIDE OF THE ROADWAY CLEAR ZONE WHILE NOT IN USE.

- NEPTUNE ROAD CLOSURE: SEE DETOUR PLANS
- LANE CLOSURES: PLACE A MINIMUM 200' IN ADVANCE OF THE LANE CLOSURE TAPER.

TWO WEEKS PRIOR	
MESSAGE 1	MESSAGE 2
LANE CLOSURE	MM/DD TO MM/DD

DURING LANE CLOSURE	
MESSAGE 1	MESSAGE 2
LT/RT LANE CLOSED	## PM TO ## AM

LANE CLOSURES


13. SEE STRUCTURE PLAN FOR TEMPORARY WALL DETAILS.

TRAFFIC CONTROL OFFICER ESTIMATE

PHASE	NUMBER OF WORK PERIODS	HOURS / WORK PERIOD	NUMBER OF TRAFFIC CONTROL OFFICERS	TOTAL HOURS	NOTES
PHASE 1	5	8	1	40	Cross Prairie Parkway
PHASE 2	5	8	1	40	Cross Prairie Parkway
PHASE 3	5	8	1	40	Cross Prairie Parkway
PHASE 4	5	8	1	40	Cross Prairie Parkway
PHASE 5	5	8	1	40	Cross Prairie Parkway
			TOTAL	200	

TTCP LEGEND

- CHANNELIZING DEVICE (SEE INDEX 102-600)
- ▭ CRASH CUSHION
- FLAGGER
- ➔ LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- LPB LOW PROFILE BARRIER
- PEDESTRIAN LCD
- ▭ PORTABLE CHANGEABLE (VARIABLE) MESSAGE SIGN
- ▭ TEMPORARY PAVEMENT PREVIOUS PHASE
- ▨ TEMPORARY PAVEMENT
- ⊠ TYPE III BARRICADE
- ▨ WORK AREA
- Ⓜ WORK ZONE SIGN

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DATE	DESCRIPTION	DATE	DESCRIPTION				200

TTCP PHASE NOTES

(SEE TYPICAL SECTIONS FOR STATION RANGES AND ADDITIONAL PHASING NOTES)

PHASE 1

1. PLACE ADVANCED WORK ZONE TRAFFIC CONTROL DEVICES AND EROSION CONTROL DEVICES.
2. CONSTRUCT POND 100A AND 100B WITH ASSOCIATED DRAINAGE STRUCTURES. CONSTRUCT STORM DRAIN TRUNK LINE FROM STA. 43+00 (T-137) TO STA. 68+50 (T-159). RESTORE RIGHT DITCH WITHIN THESE LIMITS TO PROVIDE POSITIVE DRAINAGE.
3. USING LANE CLOSURES CONSTRUCT TEMPORARY PAVEMENT AS SHOWN ON TYPICAL SECTIONS. LIMITS OF PHASE 1 TEMPORARY PAVEMENT ARE INDICATED ON THE PHASE 2 PLANS.

PHASE 2

1. INSTALL TEMPORARY BARRIER/TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS UTILIZING LANE CLOSURES. SHIFT TRAFFIC ON TEMPORARY PAVEMENT.
2. CONSTRUCT ROADWAY WESTBOUND IMPROVEMENTS. CONSTRUCT TEMPORARY PAVEMENT FOR PHASE 3. SEE TTCP PLAN SHEETS FOR TEMPORARY PAVEMENT LIMITS.
3. CONSTRUCT PORTION OF NEW BOX CULVERT AT FISH LAKE CANAL. MAINTAIN PEDESTRAIN ON EXISTING PATH.
4. DURING LANE CLOSURES, CONSTRUCT CROSS PRAIRIE PARKWAY IMPROVEMENTS PER INDEX 102-615. THE ADDITIONAL LEFT TURNS ONTO WESTBOUND AND EASTBOUND NEPTUNE ROAD ARE TO REMAIN CLOSED UNTIL ALL LANES ARE OPEN IN PHASE 5.
4. SHIFT EXISTING SIGNAL HEADS AS NEEDED AT CROSS PRAIRIE PARKWAY TO ACCOMMODATE TEMPORARY LANE CONFIGURATION AND CONSTRUCT SIGNAL IMPROVEMENTS.
5. USE EXISTING SIGNAL CONTROLLER CABINET UNTIL NEW SIGNAL CABINET IS INSTALLED AND FUNCTIONAL. USE THE NEW SIGNAL CONTROLLER CABINET FOR THE TEMPORARY SIGNALS IN PHASE 3.

PHASE 3

STEP 1

1. INSTALL TEMPORARY BARRIERS/TRAFFIC CONTROL DEVICES, TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT UTILIZING LANE CLOSURES. SHIFT TRAFFIC TO WESTBOUND.
2. CONSTRUCT ROADWAY EASTBOUND IMPROVEMENTS. MAINTAIN PEDESTRAIN ON EASTBOUND.
3. COMPLETE NEW BOX CULVERT CONSTRUCTION AT FISH LAKE CANAL.
4. PRIOR TO LANE SHIFT, CONSTRUCT TEMPORARY SIGNALIZATION AT CROSS PRAIRIE PARKWAY TO ACCOMMODATE TEMPORARY LANE CONFIGURATION AND CONSTRUCT SIGNAL IMPROVEMENTS.
5. THE ADDITIONAL LEFT TURNS FROM CROSS PRAIRIE PARKWAY ONTO WESTBOUND AND EASTBOUND NEPTUNE ARE TO REMAIN CLOSED.

STEP 2

1. SHIFT TRAFFIC BETWEEN PARTIN SETTLEMENT ROAD AND CROSS PRAIRIE PARKWAY, SEE TTCP PLAN SHEETS.
2. REMOVE PORTION OF EXISTING BOX CULVERT ON WESTBOUND. MAINTAIN PEDESTRAIN ON EASTBOUND.
3. MAINTAIN TRAFFIC PATTERN AND TEMPORARY SIGNAL AT CROSS PRAIRIE PARKWAY INTERSECTION AS STEP 1.

STEP 3


1. SHIFT TRAFFIC BETWEEN PARTIN SETTLEMENT ROAD AND CROSS PRAIRIE PARKWAY, SEE TTCP PLAN SHEETS.
2. REMOVE PORTION OF EXISTING BOX CULVERT ON EASTBOUND. MAINTAIN PEDESTRAIN ON WESTBOUND.
3. MAINTAIN TRAFFIC PATTERN AND TEMPORARY SIGNAL AT CROSS PRAIRIE PARKWAY INTERSECTION AS STEP 1.

PHASE 4 (PARTIN SETTLEMENT ROAD TO END PROJECT)

1. INSTALL TEMPORARY BARRIERS/TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS AND SHIFT TRAFFIC. USE SIGNING AND PAVEMENT MARKING PLANS FOR STOP LINE AND CROSS WALK PLACEMENT. CONSTRUCT MEDIAN ROADWAY IMPROVEMENTS.
2. CONSTRUCT WESTBOUND OUTSIDE CURB & GUTTER AND SIDEWALK FROM STA. 18+40 TO STA. 23+00.
3. MAINTAIN PEDESTRAIN ON EASTBOUND.
4. ACTIVATE SIGNAL IMPROVEMENTS AT CROSS PRAIRIE PARKWAY.
5. THE ADDITIONAL LEFT TURNS FROM CROSS PRAIRIE PARKWAY ONTO WESTBOUND AND EASTBOUND NEPTUNE ARE TO REMAIN CLOSED.

PHASE 5

USING LANE CLOSURES, PLACE FRICTION COURSE AND FINAL PAVEMENT MARKINGS.

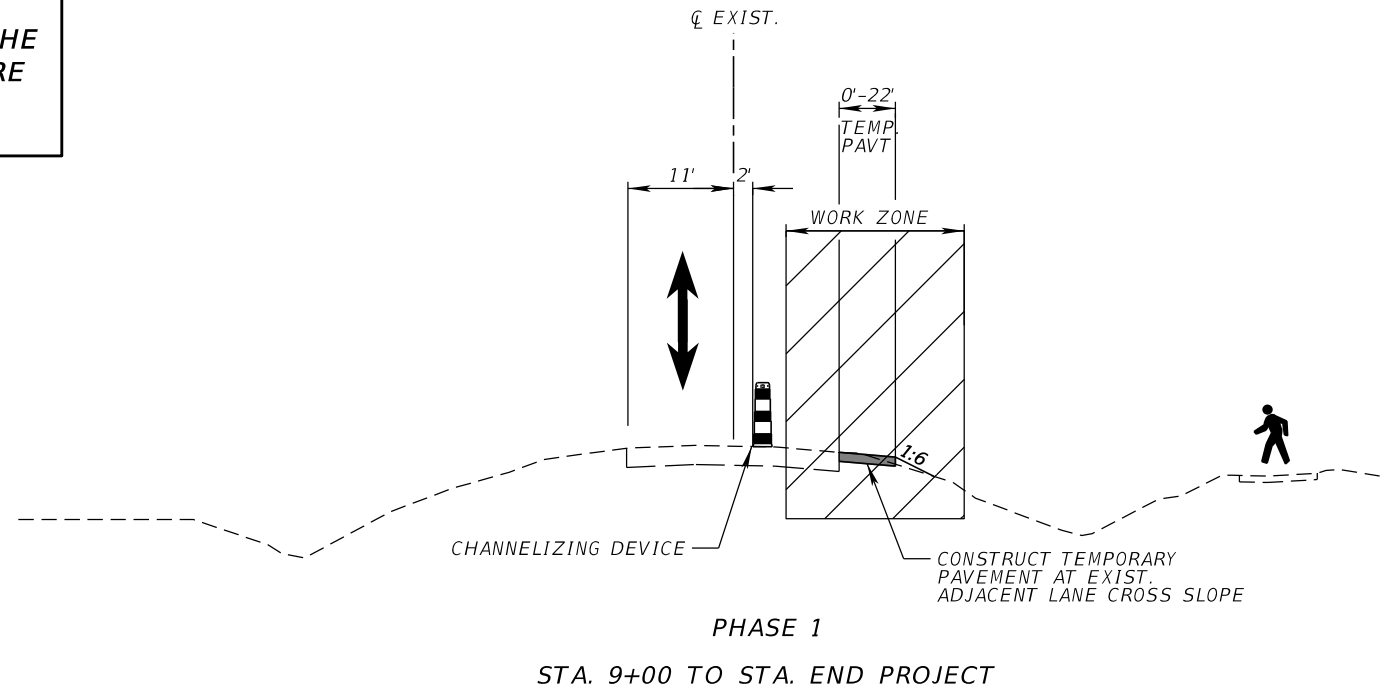
REVISIONS				DONGHANG ZHAO, P.E. P.E. LICENSE NUMBER 72502 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801	 OSCEOLA COUNTY TRANSIT AND TRANSPORTATION 1 COURTHOUSE SQUARE, SUITE 3100 KISSIMMEE, FLORIDA 34741-5488 PHONE:(407) 742-0662 FAX:(407) 742-0600	TTCP PHASE NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				201


NOTE:

THE TYPICALS REPRESENT THE CRITICAL AREAS THROUGHOUT THE PROJECT. SEE PLAN SHEETS FOR THE STATION RANGES THAT ARE NOT INCLUDED.

PHASE 1

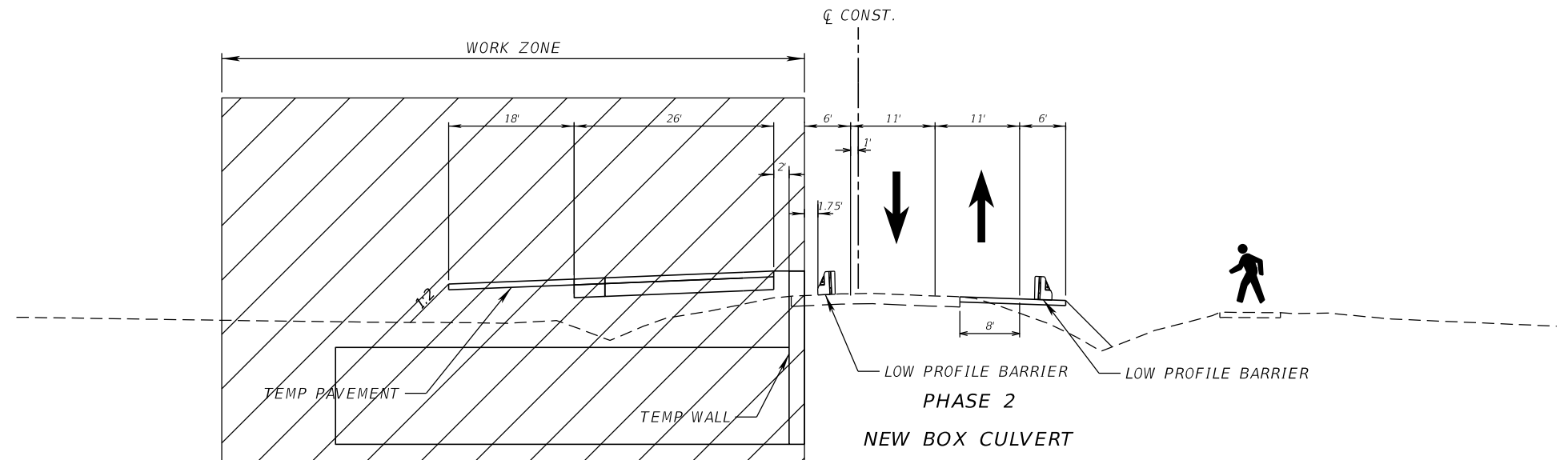
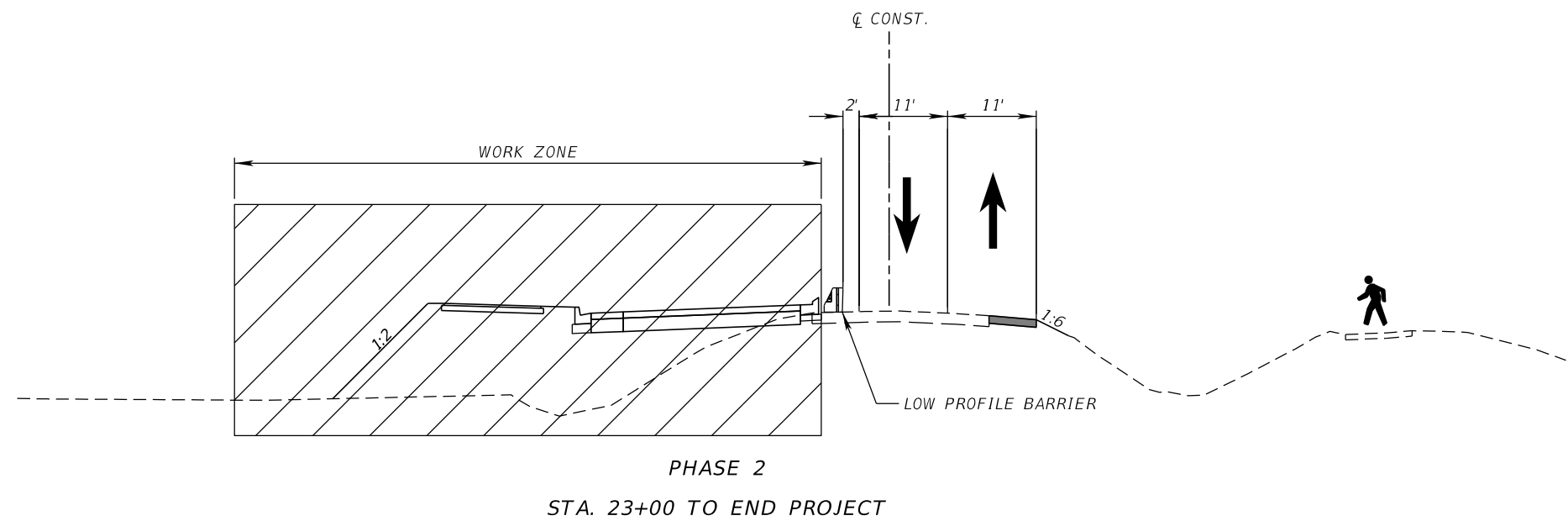
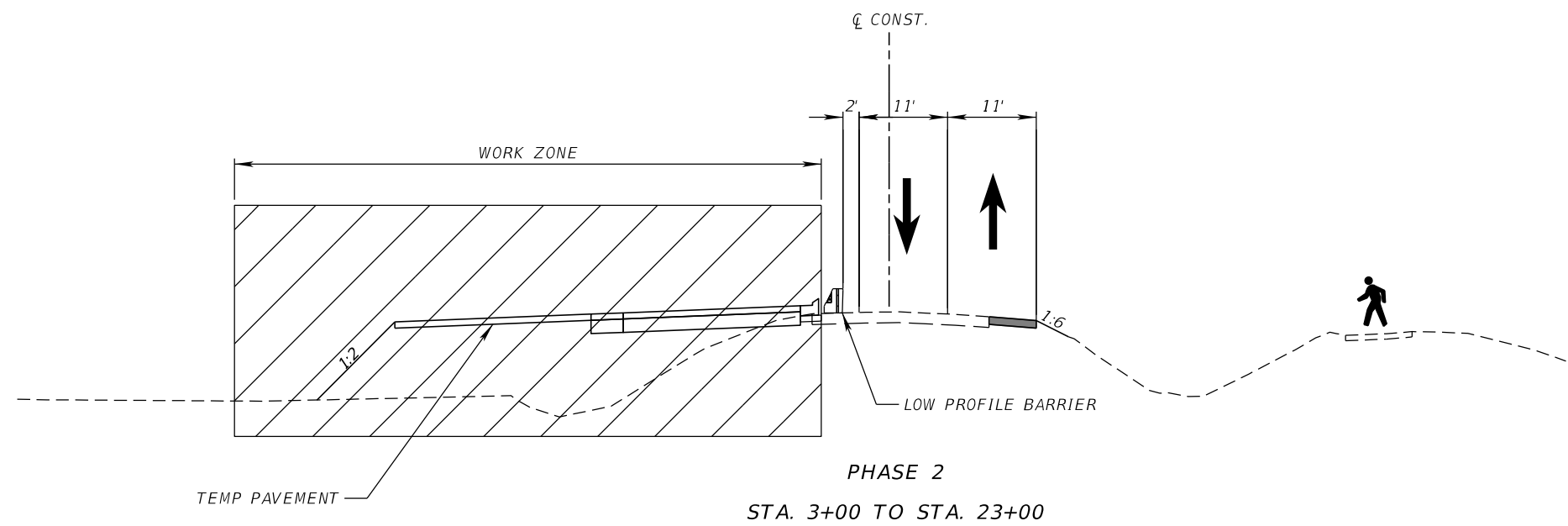
1. USING LANE CLOSURES, CONSTRUCT TEMPORARY PAVEMENT.
2. MAINTAIN PEDESTRIANS ON EXISTING PATH.



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DATE	DESCRIPTION	DATE	DESCRIPTION				202


PHASE 2

1. DURING LANE CLOSURE, INSTALL LOW PROFILE BARRIER.
2. SHIFT TRAFFIC AND CONSTRUCT WESTBOUND IMPROVEMENTS.
3. CONSTRUCTION NEW BOX CULVERT ON FISH LAKE CANAL AT WESTBOUND.
4. MAINTAIN PEDESTRIANS ON EXISTING PATH.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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ORLANDO, FL 32801

 OSCEOLA COUNTY TRANSIT
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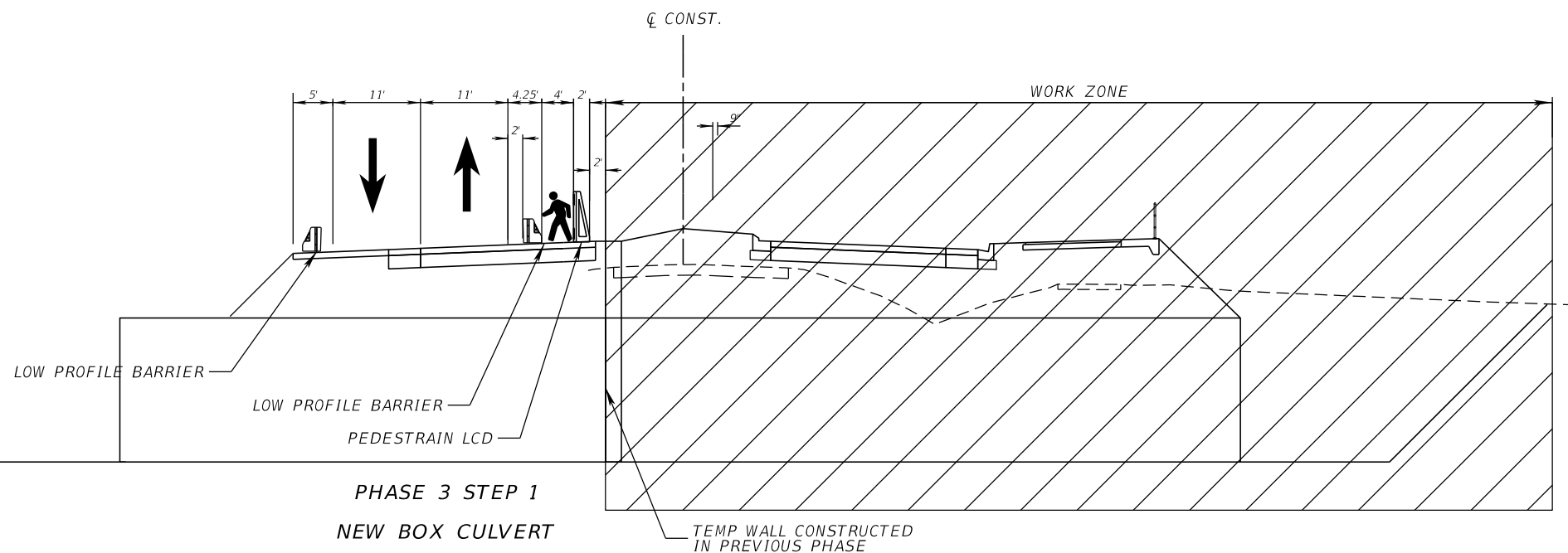
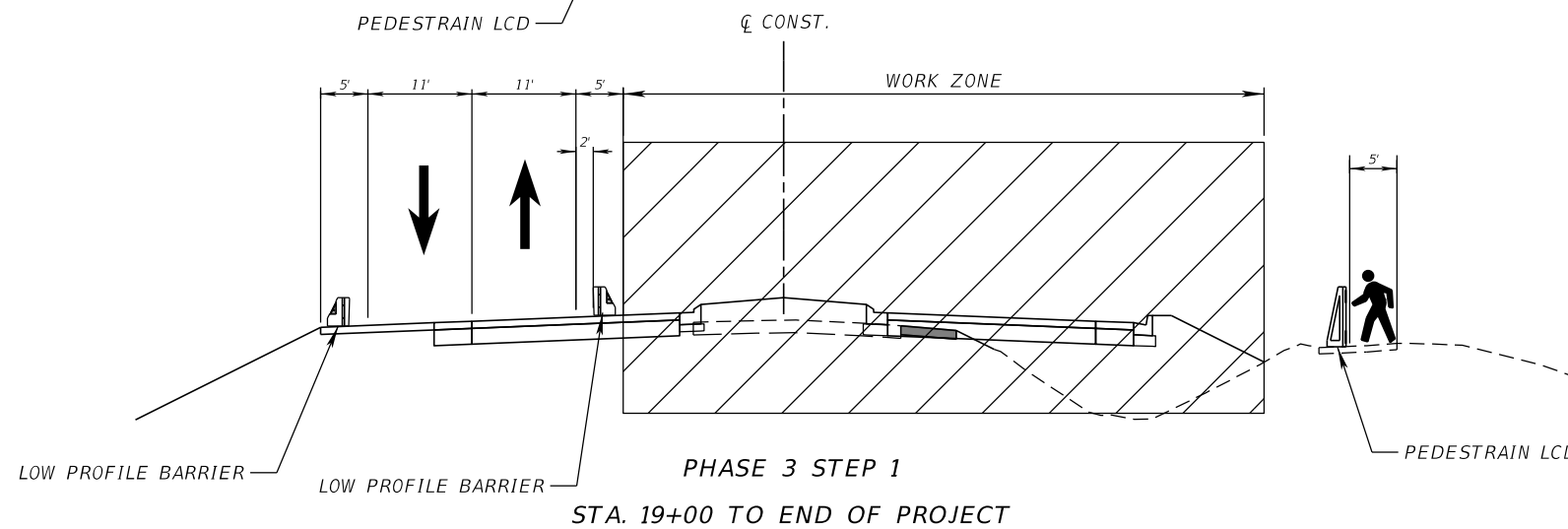
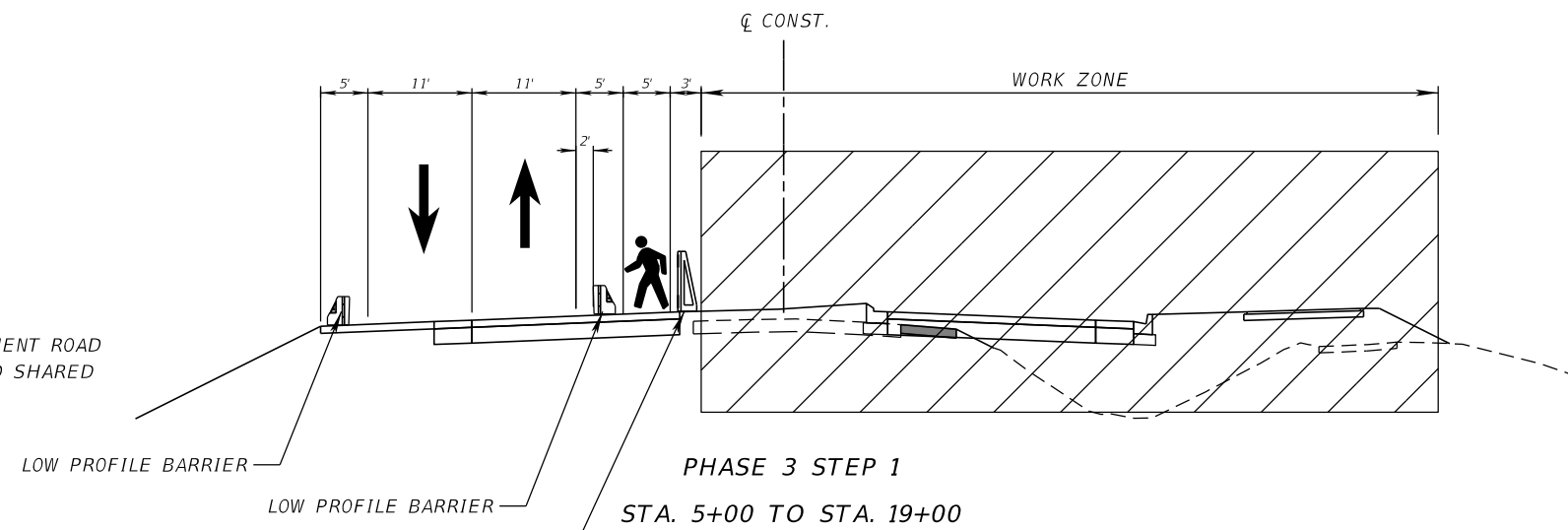
TTCP TYPICALS

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203

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PHASE 3 STEP 1

1. SHIFT TRAFFIC TO WESTBOUND DIRECTION.
2. CONSTRUCT EASTBOUND IMPROVEMENTS.
3. CONSTRUCTION NEW BOX CULVERT ON FISH LAKE CANAL AT EASTBOUND.
3. MAINTAIN PEDESTRIANS ON EASTBOUND NEPTUNE ROAD BETWEEN PARTIN SETTLEMENT ROAD AND CROSS PRAIRIE PKWY. SHIFT PEDESTRAIN TRAFFIC TO WESTBOUND PROPOSED SHARED USE PATH AT CROSS PRAIRIE PKWY INTERSECTION.



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P.E. LICENSE NUMBER 72502
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ORLANDO, FL 32801

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1 COURTHOUSE SQUARE, SUITE 3100
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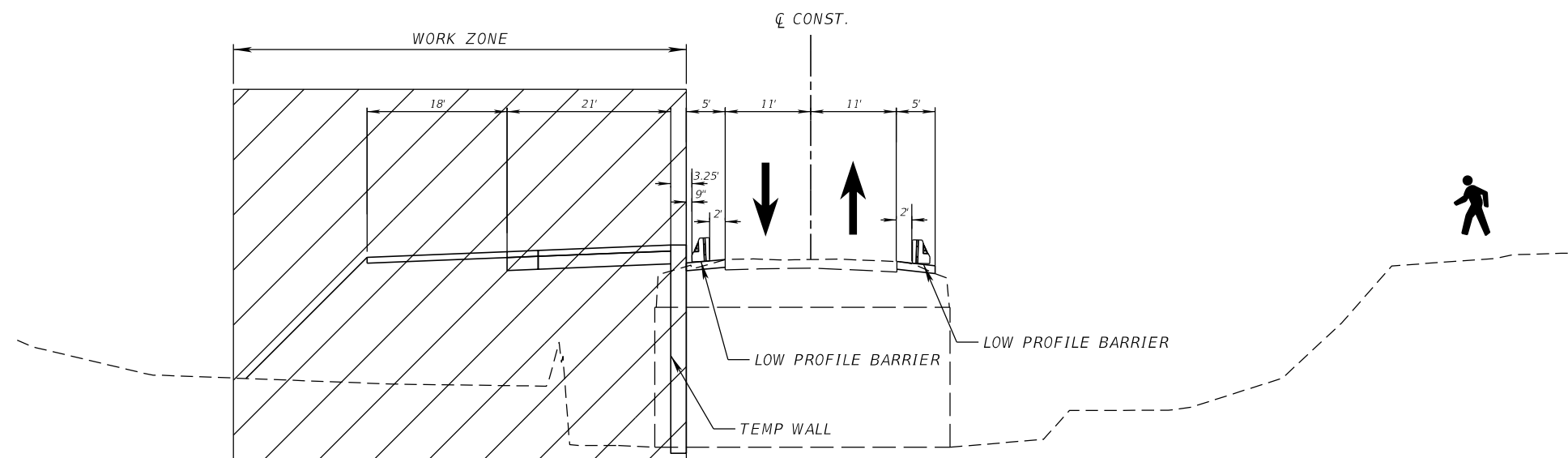
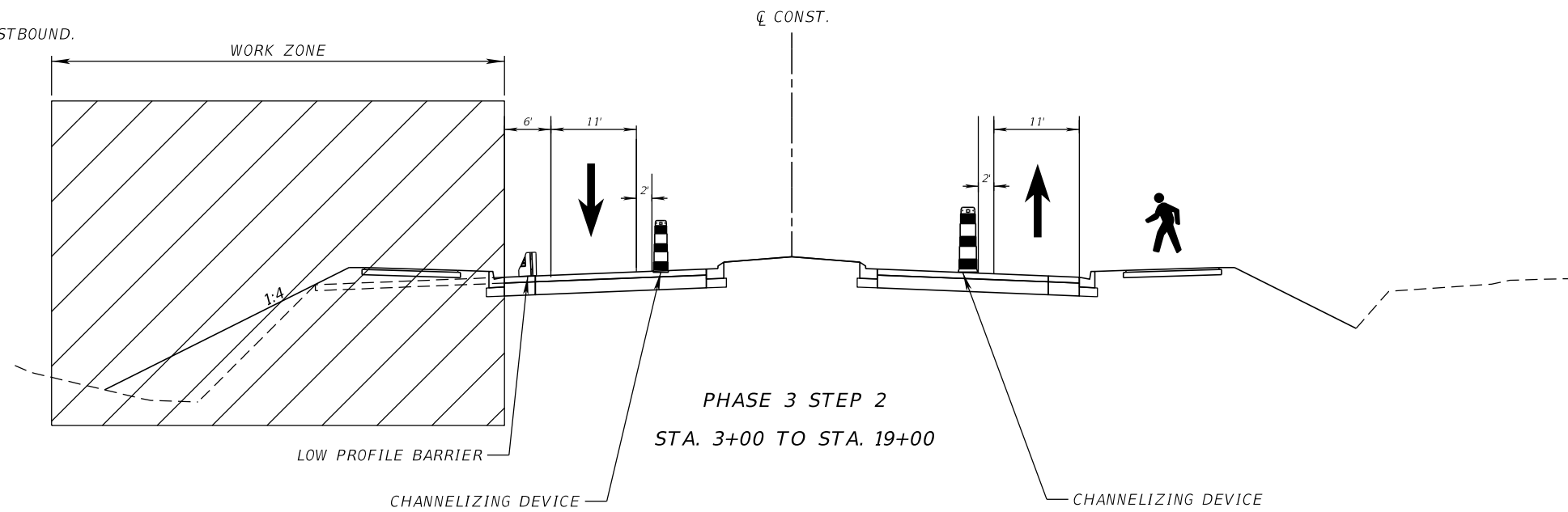
TTCP TYPICALS

SHEET NO.
204

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PHASE 3 STEP 2

1. SHIFT TRAFFIC TO PROPOSED PAVEMENT ON WESTBOUND AND EASTBOUND.
2. CONSTRUCT WESTBOUND OUTSIDE CURB & GUTTER AND SHARED USE PATH.
3. REMOVE EXISTING FISH LAKE CANAL BOX CULVERT ON WESTBOUND.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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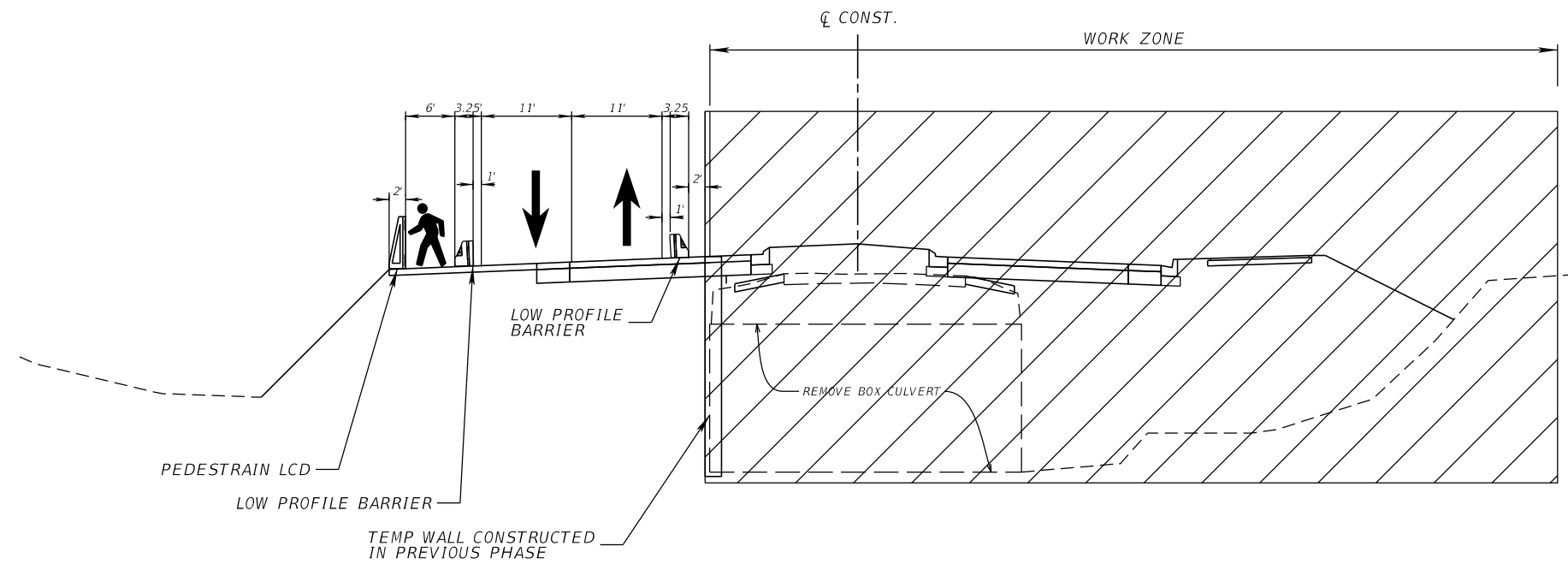
TTCP TYPICALS

SHEET
NO.

205

PHASE 3 STEP 3

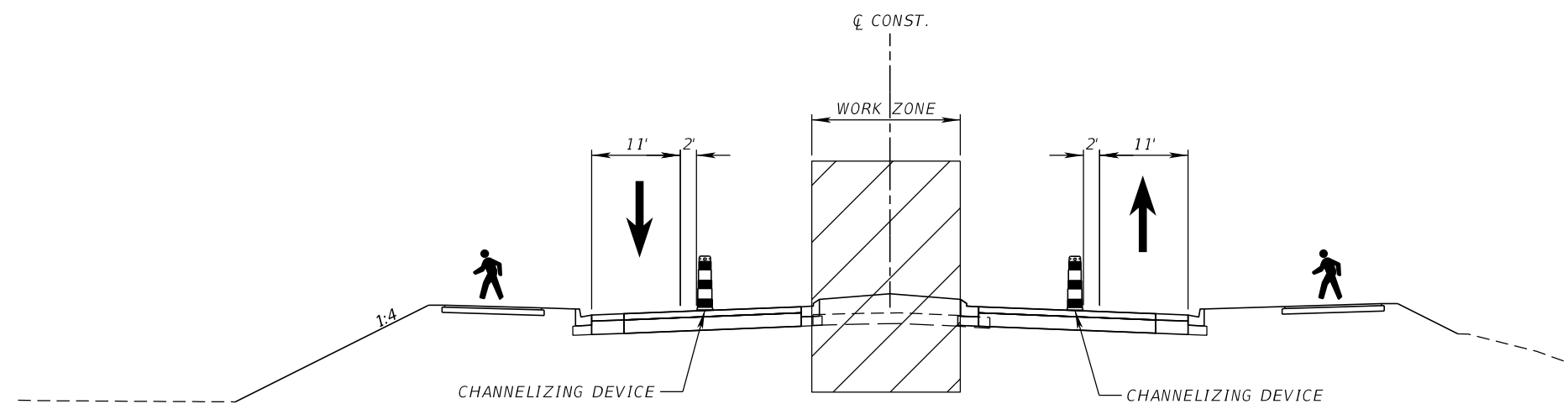
1. REMOVE EXISTING FISH LAKE CANAL BOX CULVERT ON EASTBOUND.
2. MAINTAIN PEDESTRIANS ON WESTBOUND.



PHASE 3 STEP 3
EXIST. FISH LAKE BOX CULVERT

PHASE 4

1. SHIFT TRAFFIC TO EASTBOUND AND WESTBOUND DIRECTION.
2. CONSTRUCT MEDIAN IMPROVEMENTS.



PHASE 4
STA. 2+00 TO END PROJECT

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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ORLANDO, FL 32801



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PHONE:(407) 742-0662 FAX:(407) 742-0600


TTCP TYPICALS

SHEET
NO.

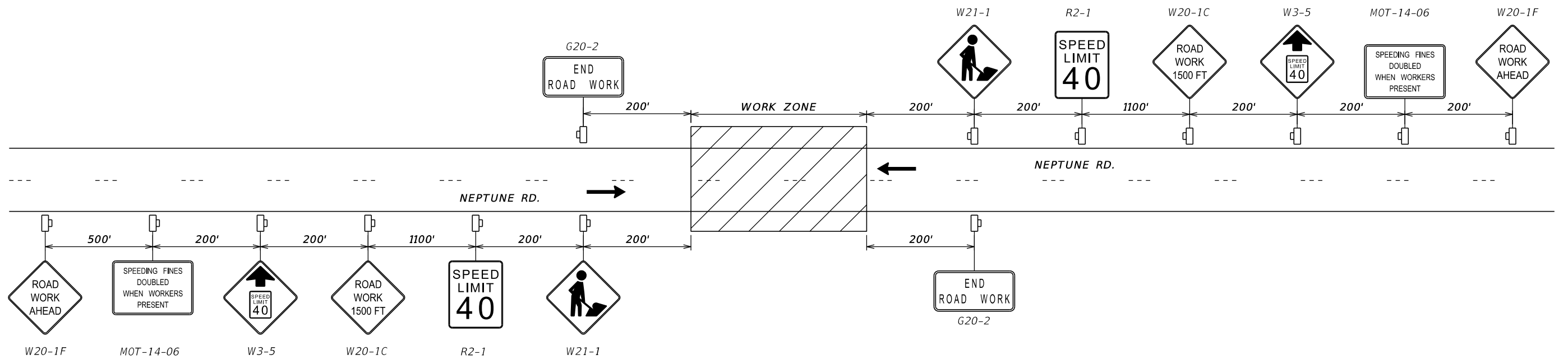
206

SUMMARY OF TEMPORARY DRAINAGE STRUCTURES

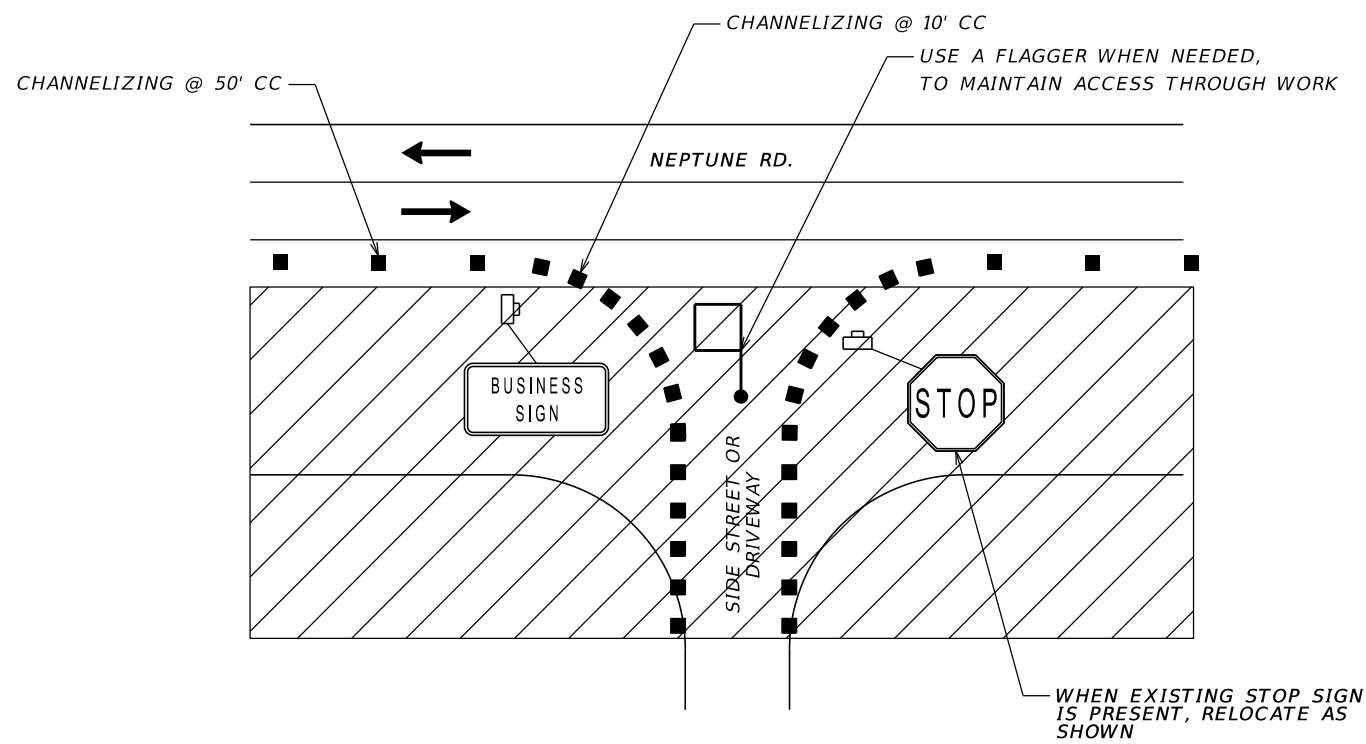
QTY.	STRUCT. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN			JUNCTION BOX	JUNCTION BOX		REMARKS
						15"	36"	D < 10'		P-7 PARTIAL	J-7 PARTIAL	
P	T-1	5+77.28	LT	JUNCTION BOX	1				1			
F												
P	T-2	6+18.46	LT	JUNCT. BOX - PARTIAL, PIPE	1	39				1		
F												
P	T-3	30+95	RT	DBI, PIPE	1		14	1				
F												
P	T-101	17+75	LT	JUNCT. BOX - PARTIAL	1						1	
F												
P	T-103	15+00	LT	JUNCT. BOX - PARTIAL	1						1	
F												
P	T-105	12+00	LT	JUNCT. BOX - PARTIAL	1						1	
F												
P	T-107	8+00	LT	JUNCT. BOX - PARTIAL	1						1	
F												
P	T-109	5+77.28	LT	JUNCT. BOX - PARTIAL	1						1	
F												
P	T-112	21+79	LT	JUNCT. BOX - PARTIAL	1						1	
F												
P	T-137	43+00	RT	JUNCT. BOX - PARTIAL	1						1	
F												
P	T-139	46+00	RT	JUNCT. BOX - PARTIAL	1						1	
F												
P	T-141	47+50	RT	JUNCT. BOX - PARTIAL	1						1	
F												
P	T-143	48+60	RT	JUNCT. BOX - PARTIAL	1						1	
F												
P	T-143A	49+85.84	RT	JUNCT. BOX - PARTIAL	1						1	
F												
P	T-145	51+38	RT	JUNCT. BOX - PARTIAL	1						1	
F												
P	T-147	53+98	RT	JUNCT. BOX - PARTIAL	1						1	
F												
P	T-151	58+00	RT	JUNCT. BOX - PARTIAL	1						1	
F												
P	T-153	61+85	RT	JUNCT. BOX - PARTIAL	1					1		
F												
P	T-155	65+58.74	RT	JUNCT. BOX - PARTIAL	1					1		
F												
P	T-157	67+50	RT	JUNCT. BOX - PARTIAL	1					1		
F												
P	T-159	68+50	RT	JUNCT. BOX - PARTIAL	1					1		
F												
P	TOTAL					39	14	1	1	5	14	
F	TOTAL											

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DATE	DESCRIPTION	DATE	DESCRIPTION					207

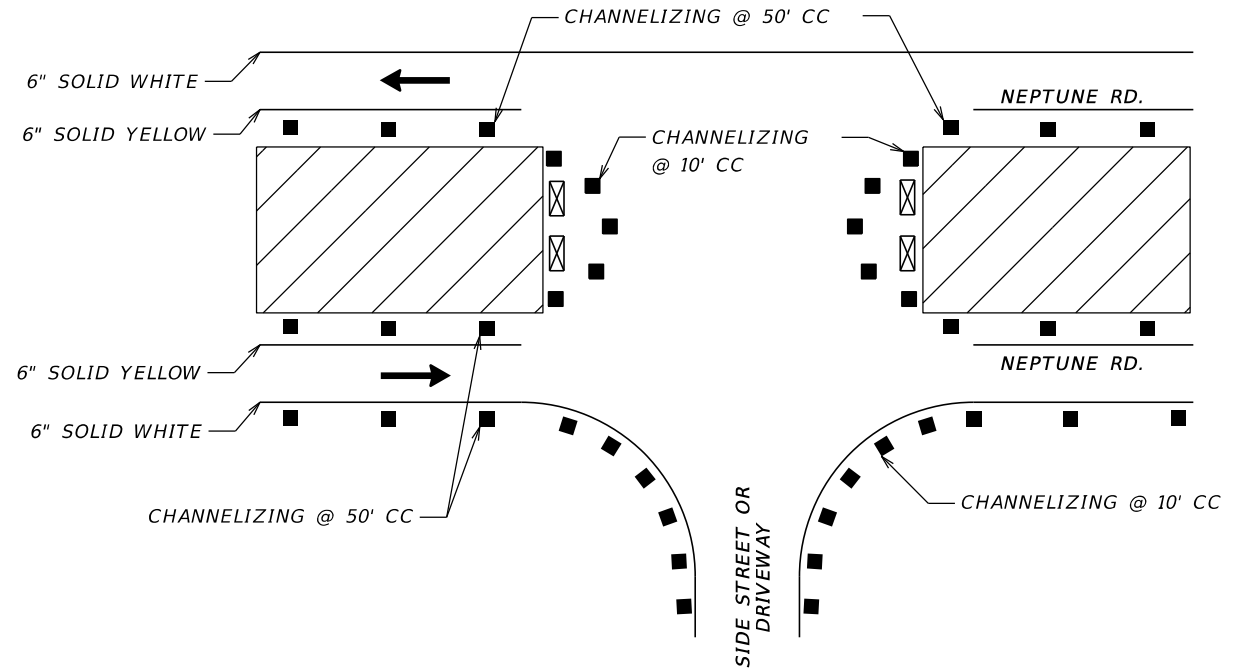
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NEPTUNE ROAD
 ADVANCED WARNING SIGNS DETAIL
 N.T.S.



SIDE STREET AND DRIVEWAY
 ACCESS THROUGH WORK ZONE DETAIL
 N.T.S.



MEDIAN OPENING
 CHANNELIZING SPACING AND
 PAVEMENT MARKINGS DETAIL
 N.T.S.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

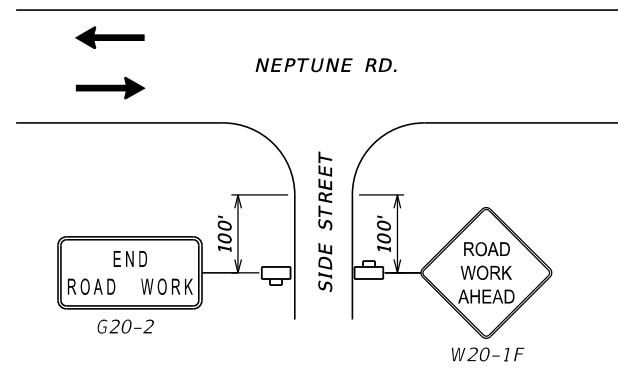
DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
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OSCEOLA COUNTY TRANSIT
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 KISSIMMEE, FLORIDA 34741-5488
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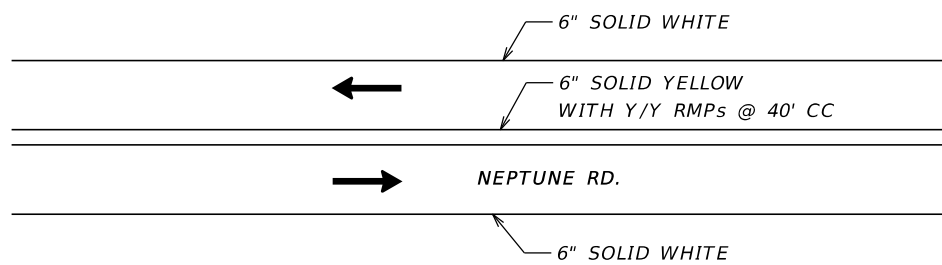
TTCP DETAILS

SHEET NO.
 208

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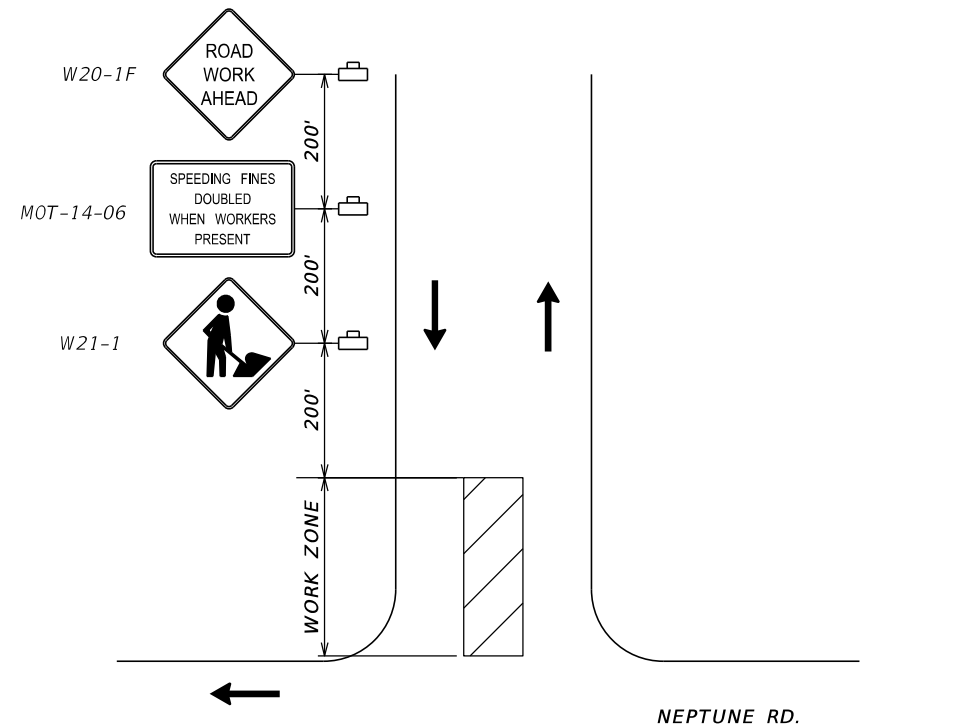
**SIDE STREET
ADVANCED WARNING SIGNS DETAIL
N.T.S.**



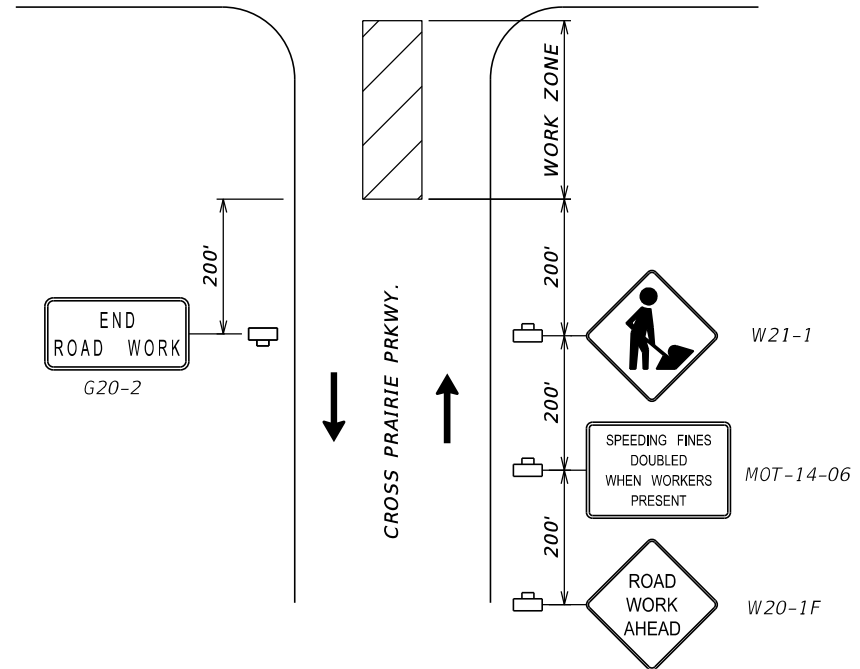
**PAVEMENT MARKINGS
2-WAY UNDIVIDED SECTION DETAIL
N.T.S.**

NOTE:

FOR INTERSECTIONS AND AREAS THAT DO NOT MEET THE ABOVE CONDITIONS,
SEE PLAN SHEETS FOR PAVEMENT MARKINGS.



NEPTUNE RD.



**CROSS PRAIRIE PARKWAY
ADVANCED WARNING SIGNS DETAIL
N.T.S.**

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

TTCP DETAILS

209

SHEET NO.
209

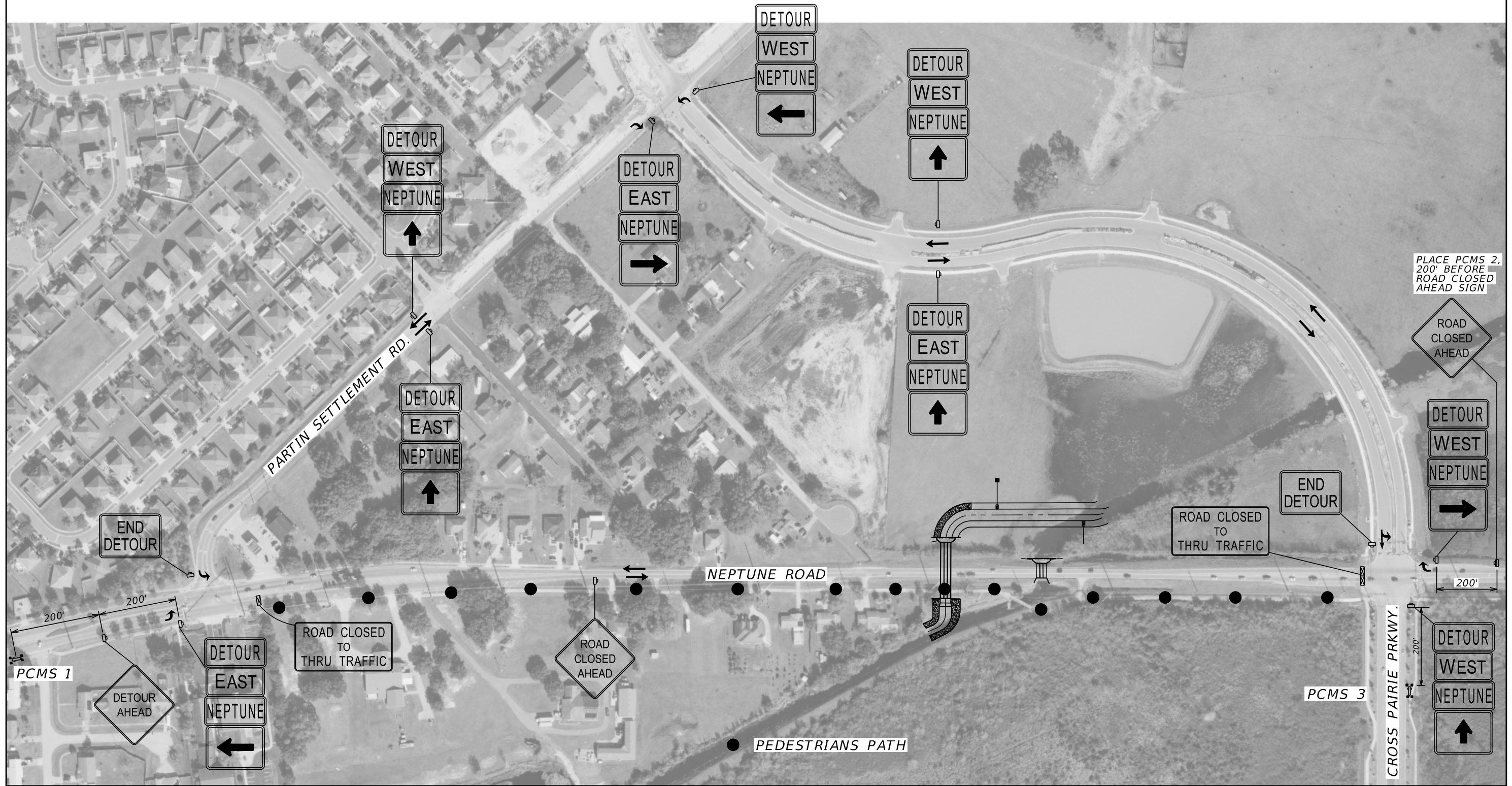
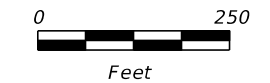
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NOTES:

1. CONTRACTOR SHALL ONLY USE THIS DETOUR FOR SHORT TIME CLOSURE ONLY. THE CLOSURE DURATION SHALL NOT BE EXCEEDED MORE THAN 48 HOURS. CLOSURE TIME AND CLOSURE DURATION MUST BE APPROVED AT LEAST 72 HOURS IN ADVANCE BY THE COUNTY TRANSPORTATION ENGINEER.
2. PLACE PCMS 200' IN ADVANCE OF ROAD CLOSED AHEAD SIGN ON NEPTUNE ROAD. MESSAGES SHALL READ AS SHOWN BELOW. MESSAGE AND LOCATION CAN BE CHANGED WITH THE ENGINEERS' APPROVAL.

TWO WEEKS PRIOR	
MESSAGE 1	MESSAGE 2
NEPTUNE TO BE CLOSED	MM/DD TO MM/DD

DURING ROAD CLOSURE	
MESSAGE 1	MESSAGE 2
NEPTUNE CLOSED AHEAD	FOLLOW DETOUR



PLACE PCMS 2,
200' BEFORE
ROAD CLOSED
AHEAD SIGN

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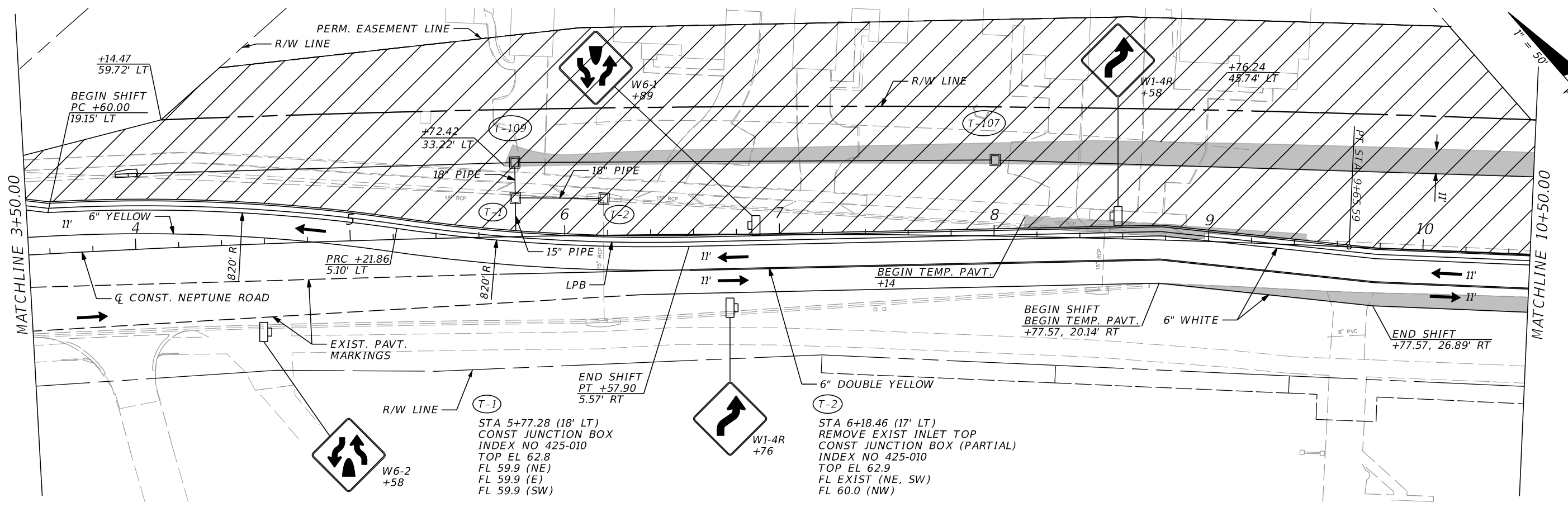
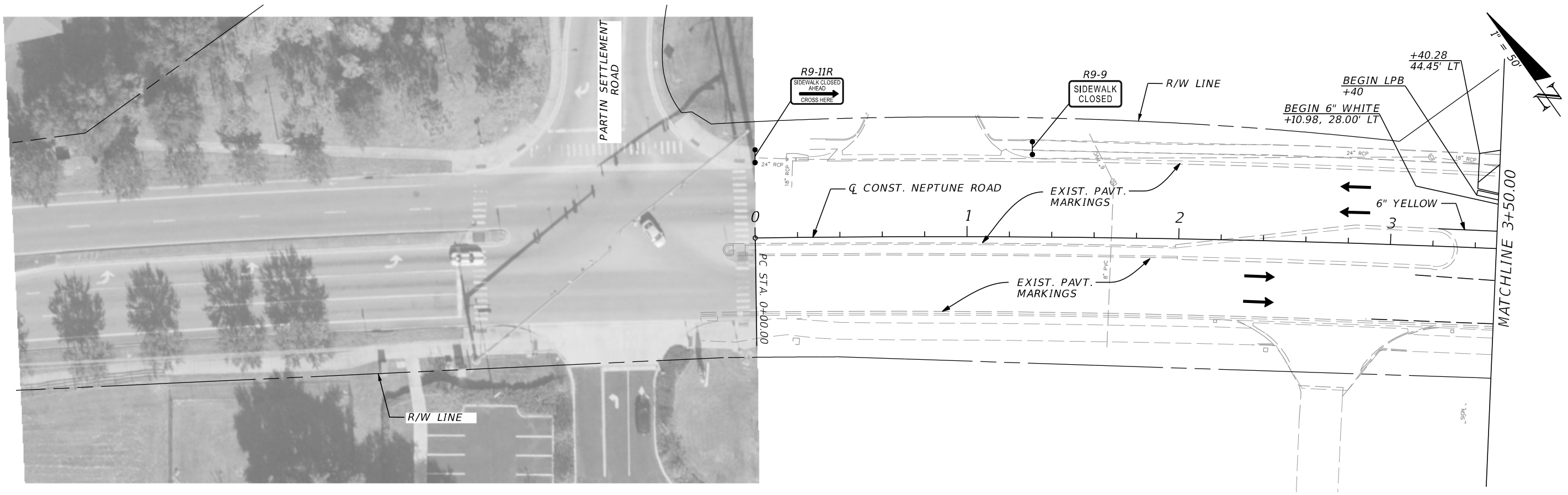
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**TTCP
DETOUR**

SHEET
NO.
210



REVISIONS			
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DONGHANG ZHAO, P.E.
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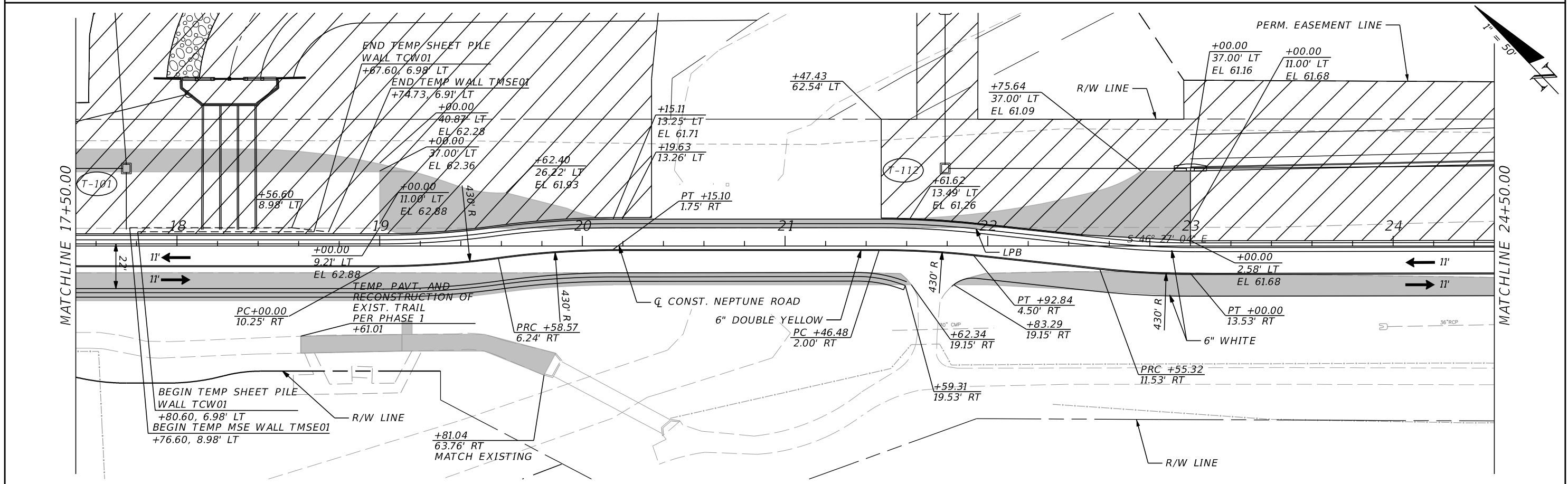
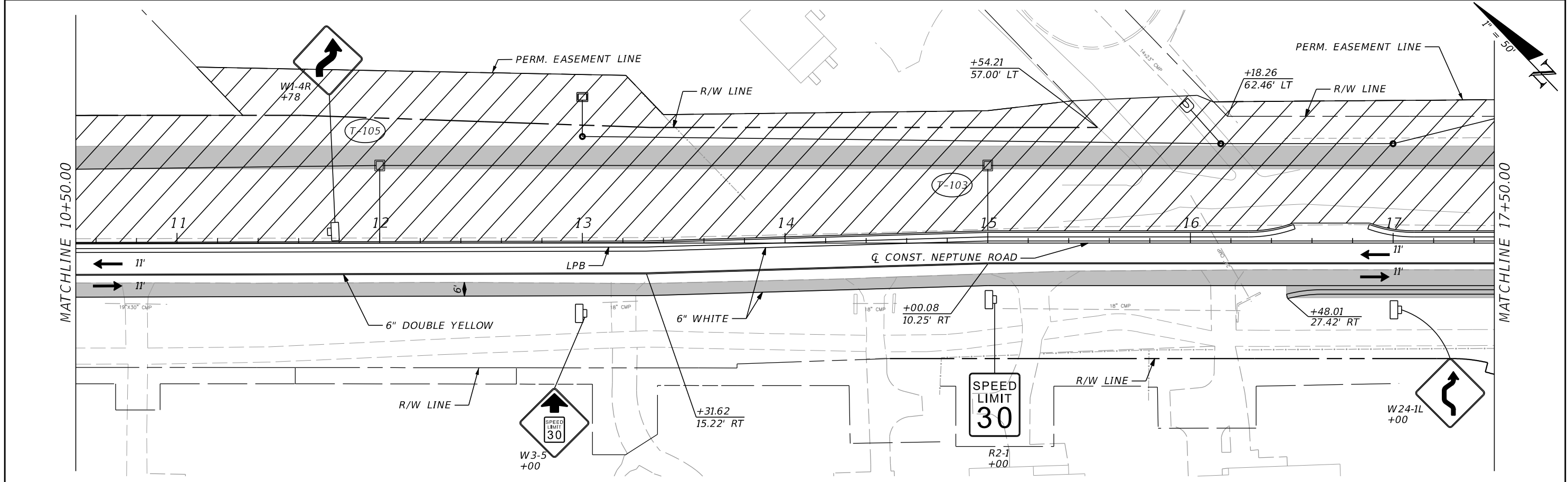
OSCEOLA COUNTY TRANSIT
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1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

TTCP PHASE 2

SHEET NO.
211

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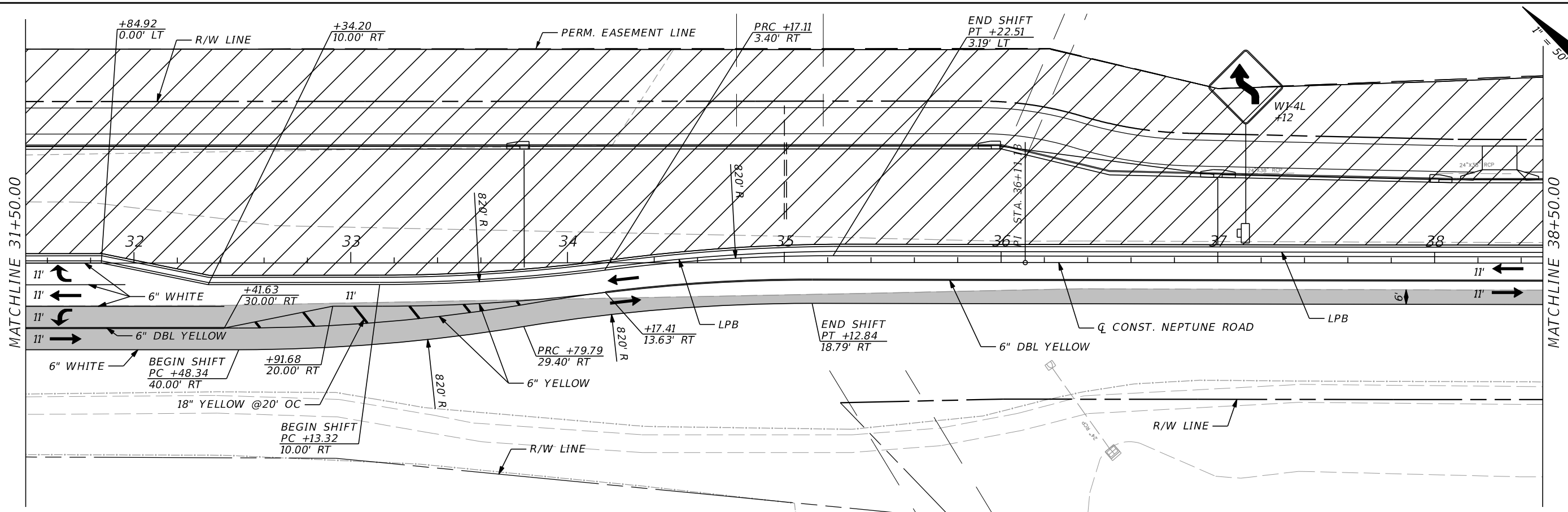
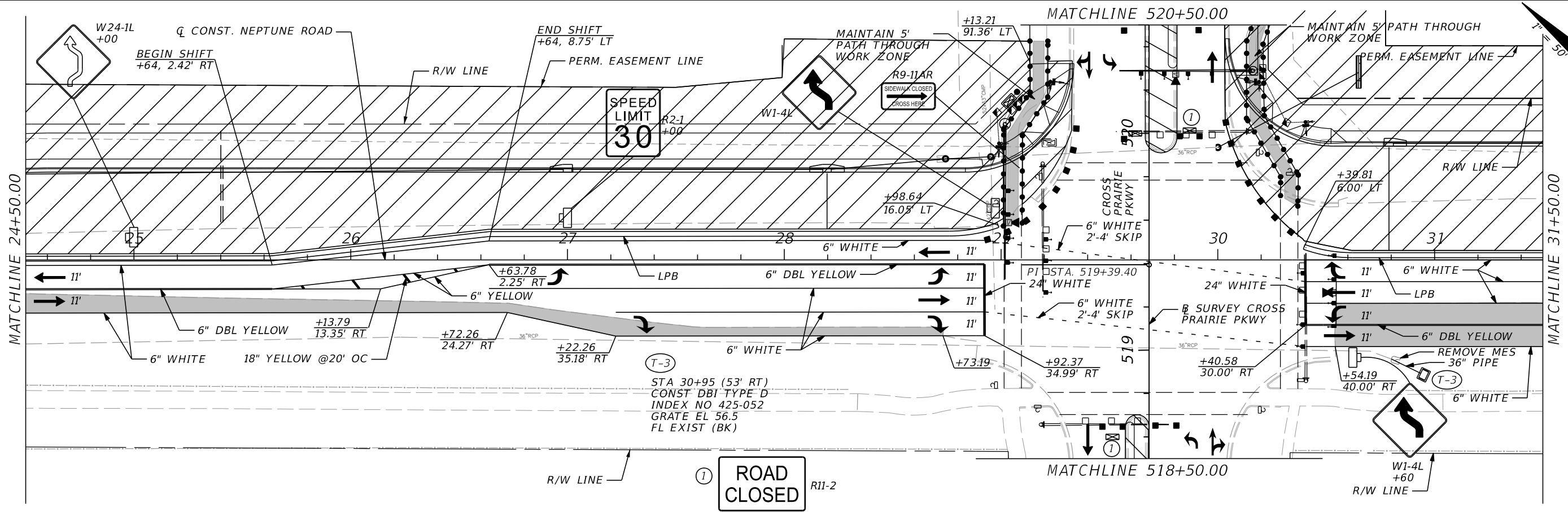


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212

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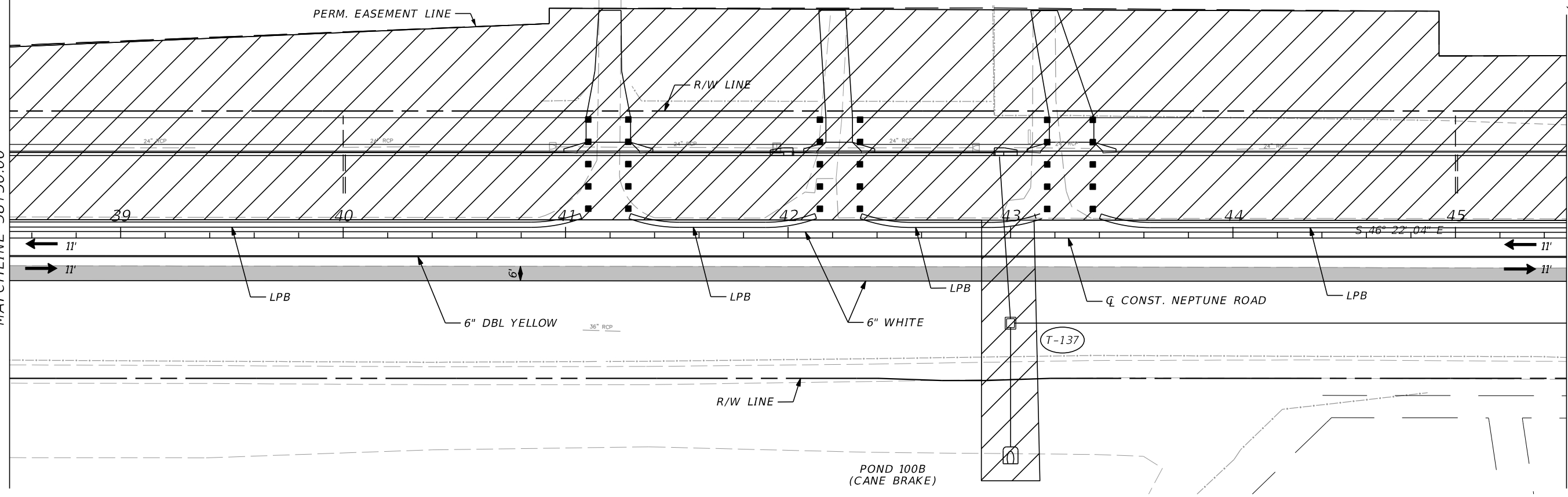
TTCP PHASE 2

SHEET NO.
213

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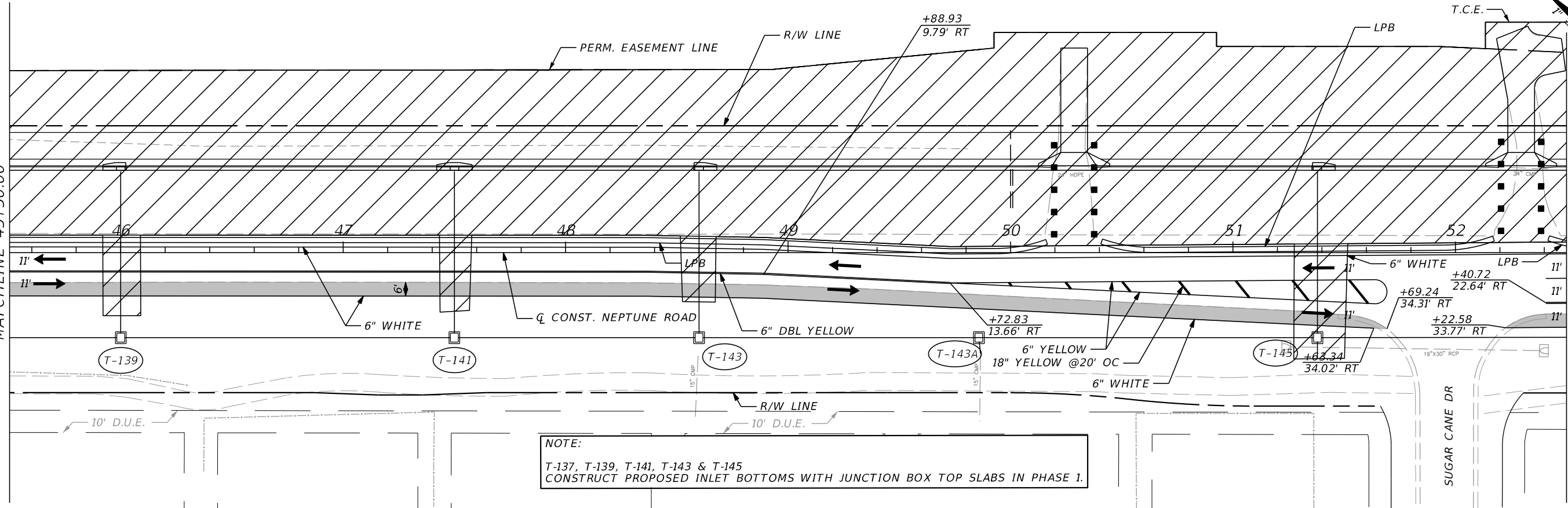
MATCHLINE 38+50.00

MATCHLINE 45+50.00



MATCHLINE 45+50.00

MATCHLINE 52+50.00



NOTE:
 T-137, T-139, T-141, T-143 & T-145
 CONSTRUCT PROPOSED INLET BOTTOMS WITH JUNCTION BOX TOP SLABS IN PHASE 1.

REVISIONS			
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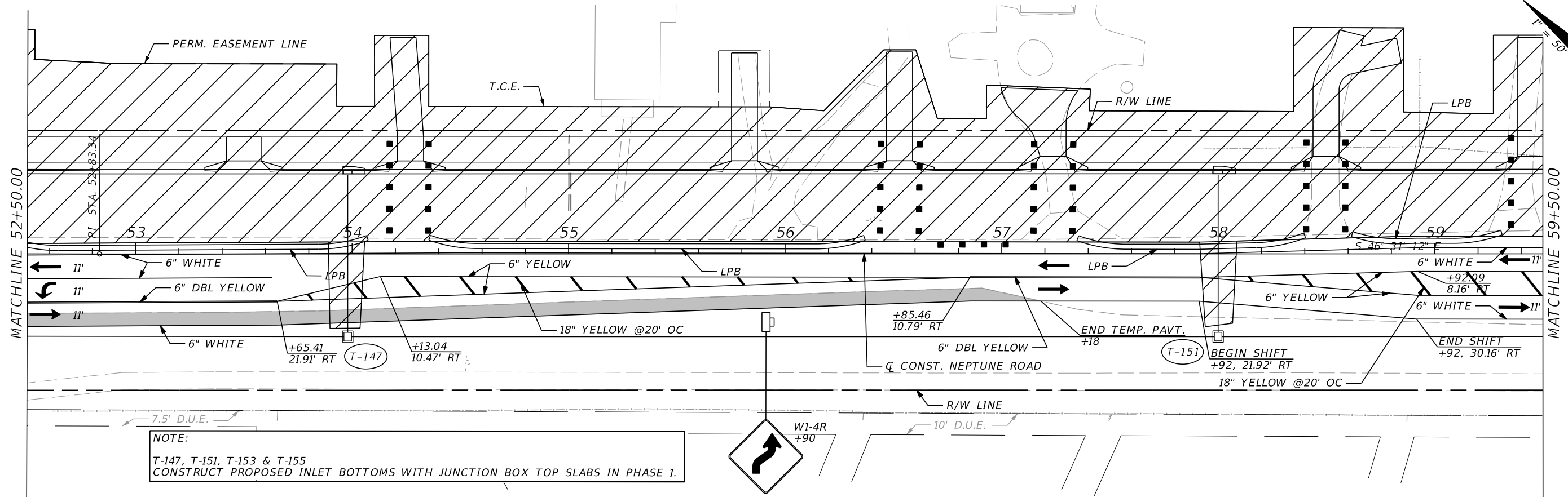


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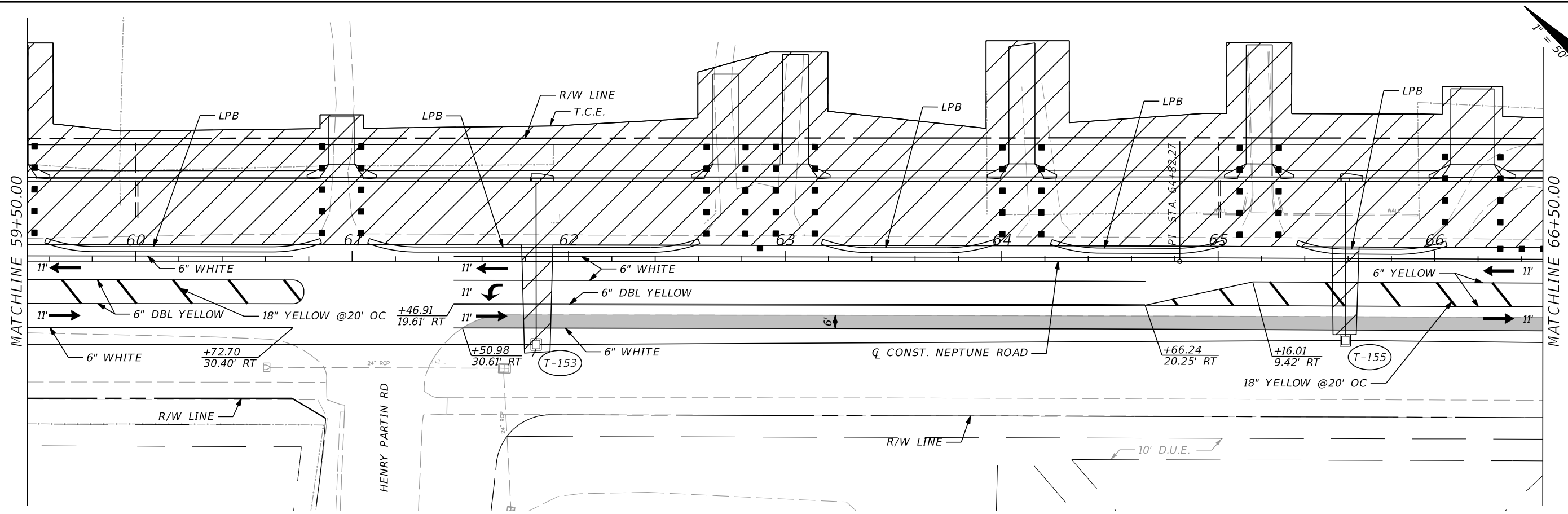
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NOTE:
 T-147, T-151, T-153 & T-155
 CONSTRUCT PROPOSED INLET BOTTOMS WITH JUNCTION BOX TOP SLABS IN PHASE 1.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

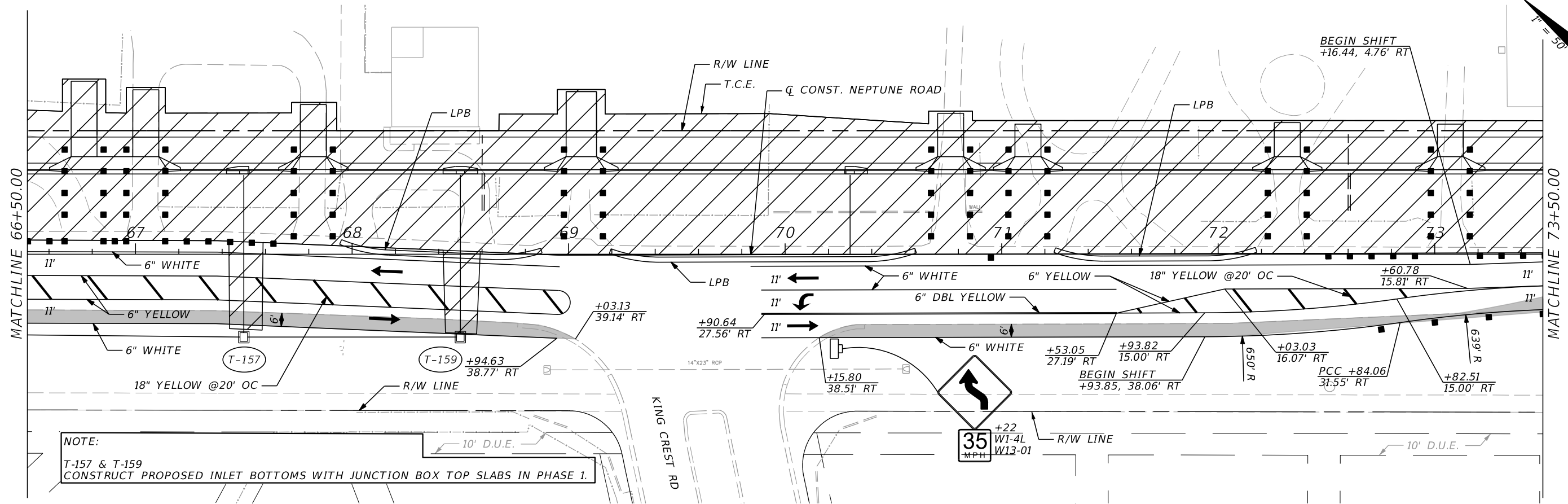
DONGHANG ZHAO, P.E.
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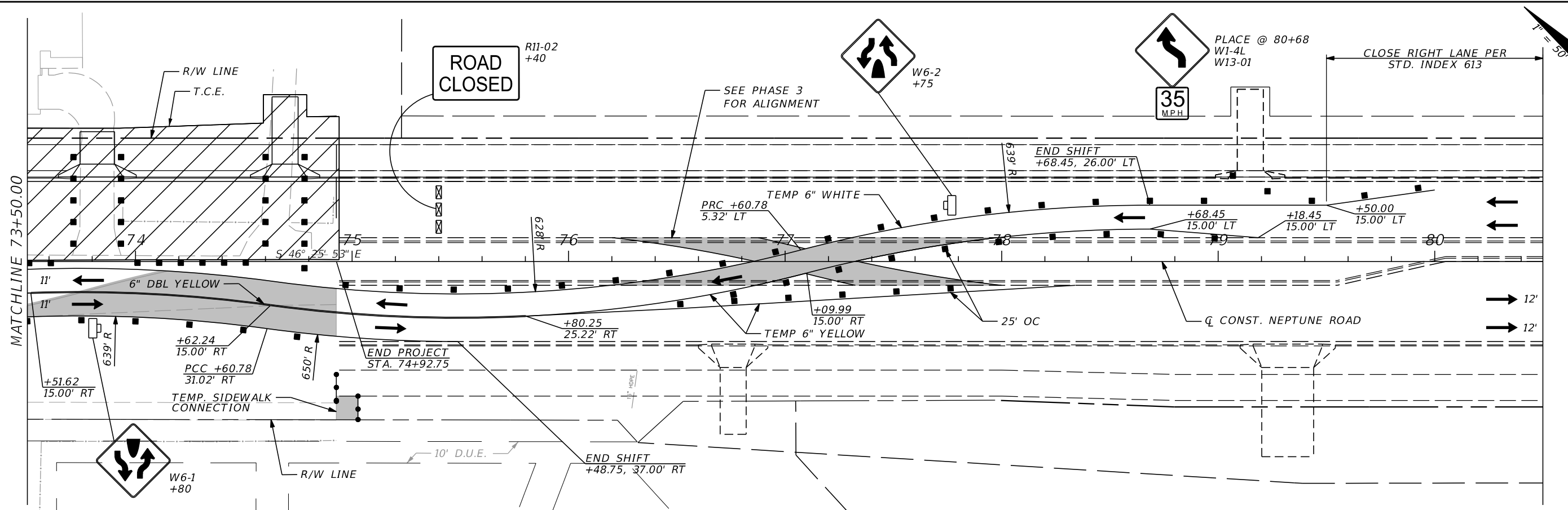
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215

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NOTE:
T-157 & T-159
CONSTRUCT PROPOSED INLET BOTTOMS WITH JUNCTION BOX TOP SLABS IN PHASE 1.



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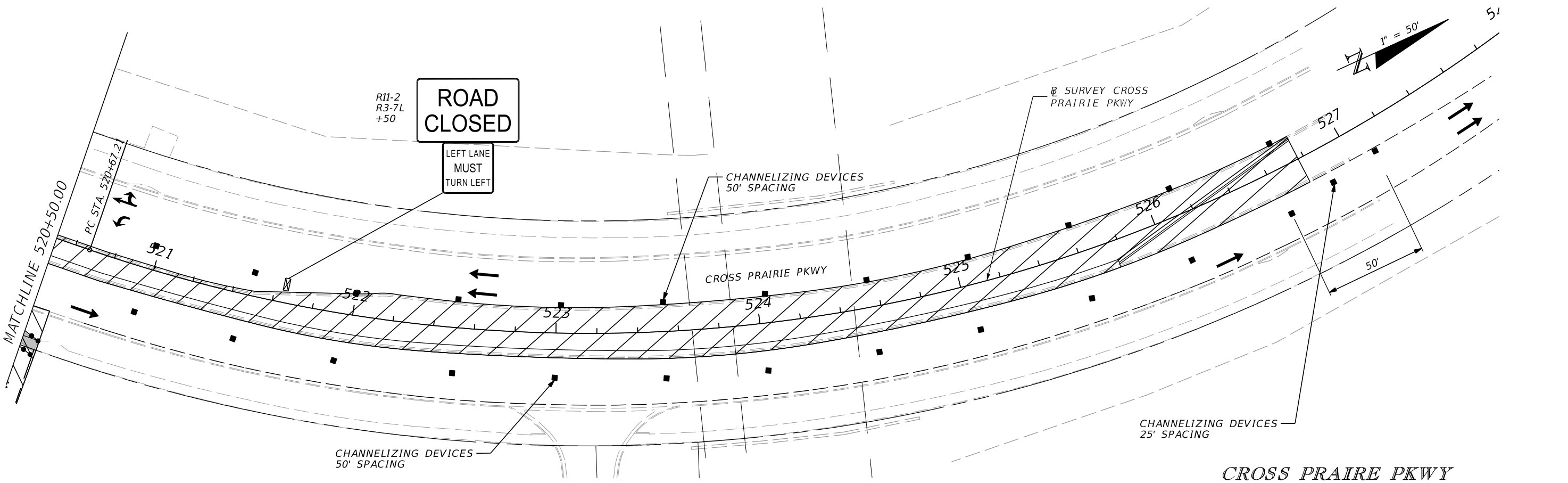
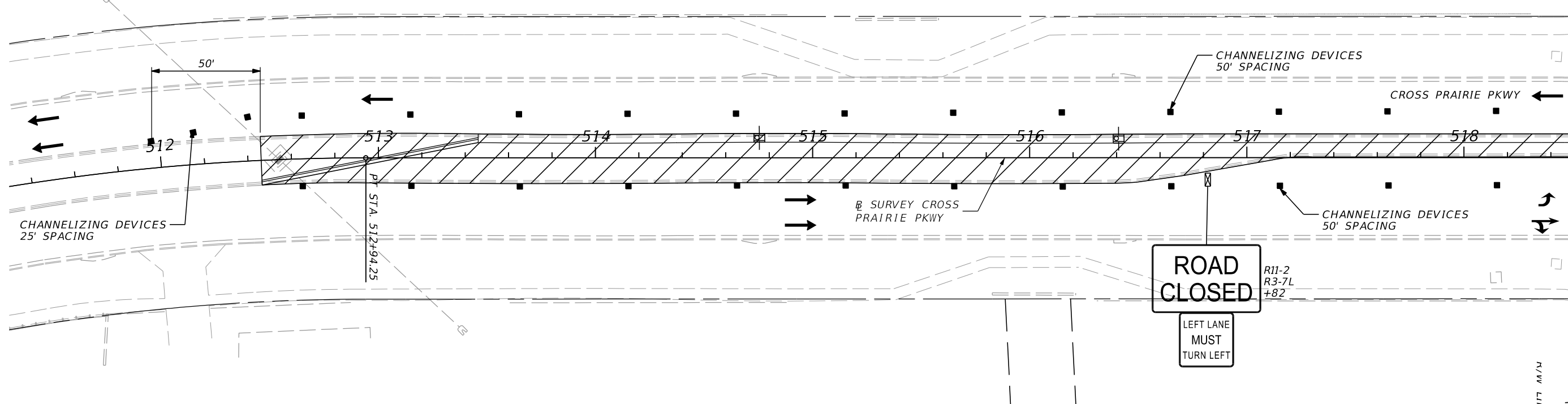
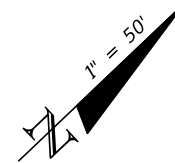


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TTCP PHASE 2

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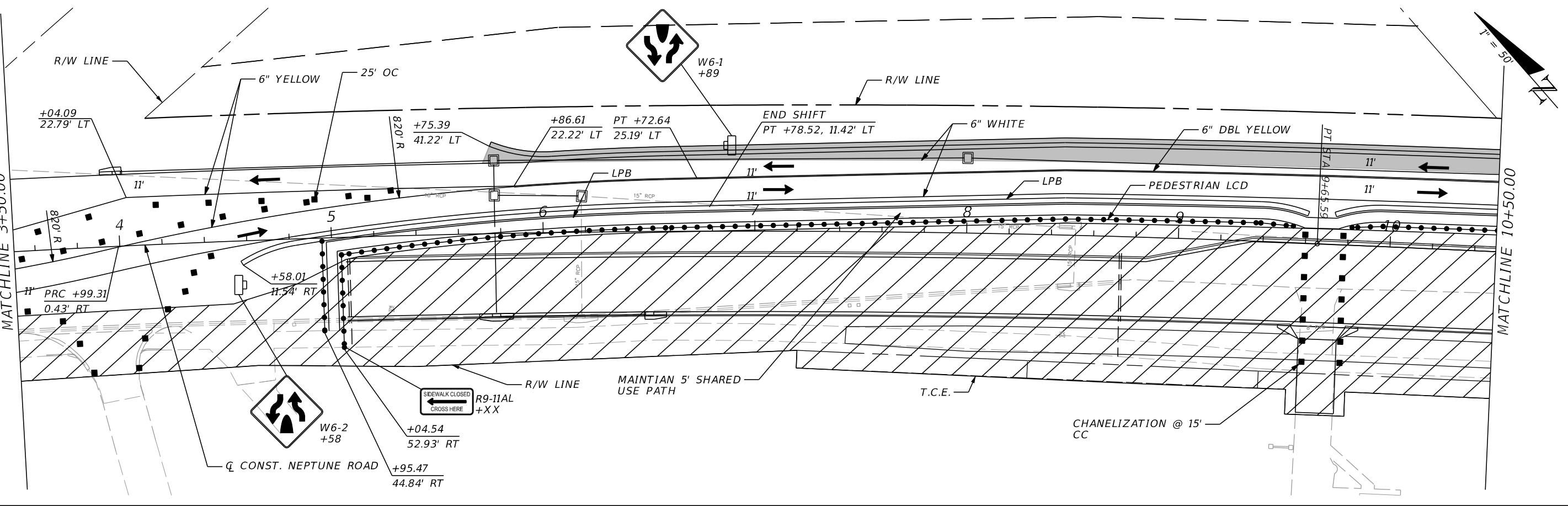
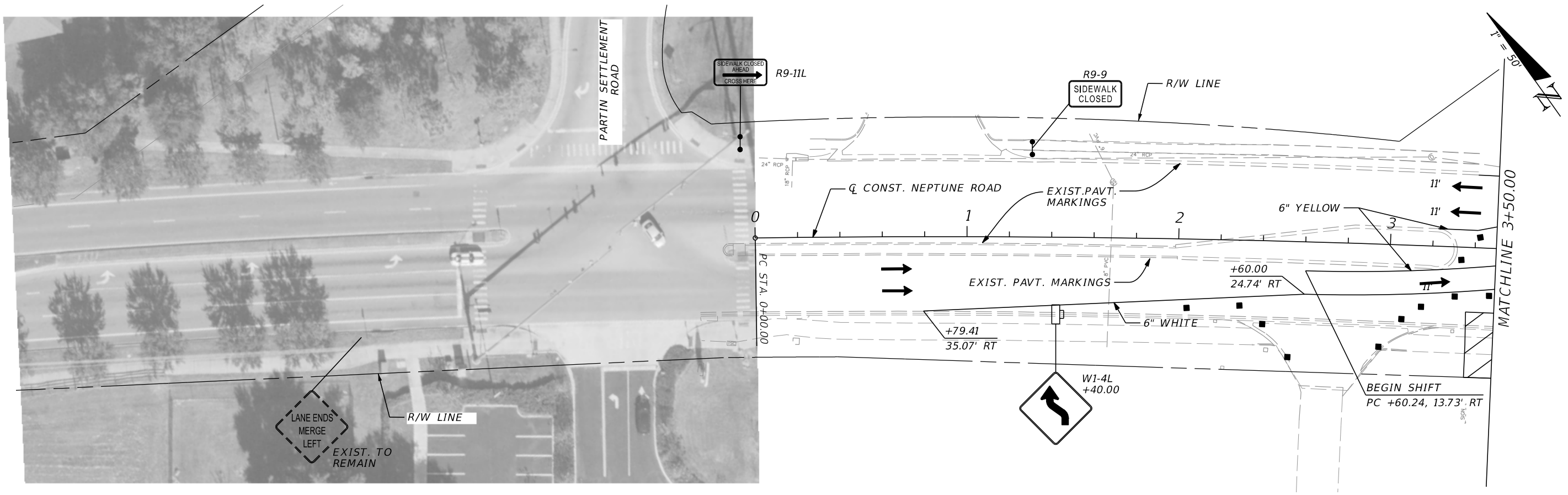
DONGHANG ZHAO, P.E.
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 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
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TTCP PHASE 2

SHEET NO.
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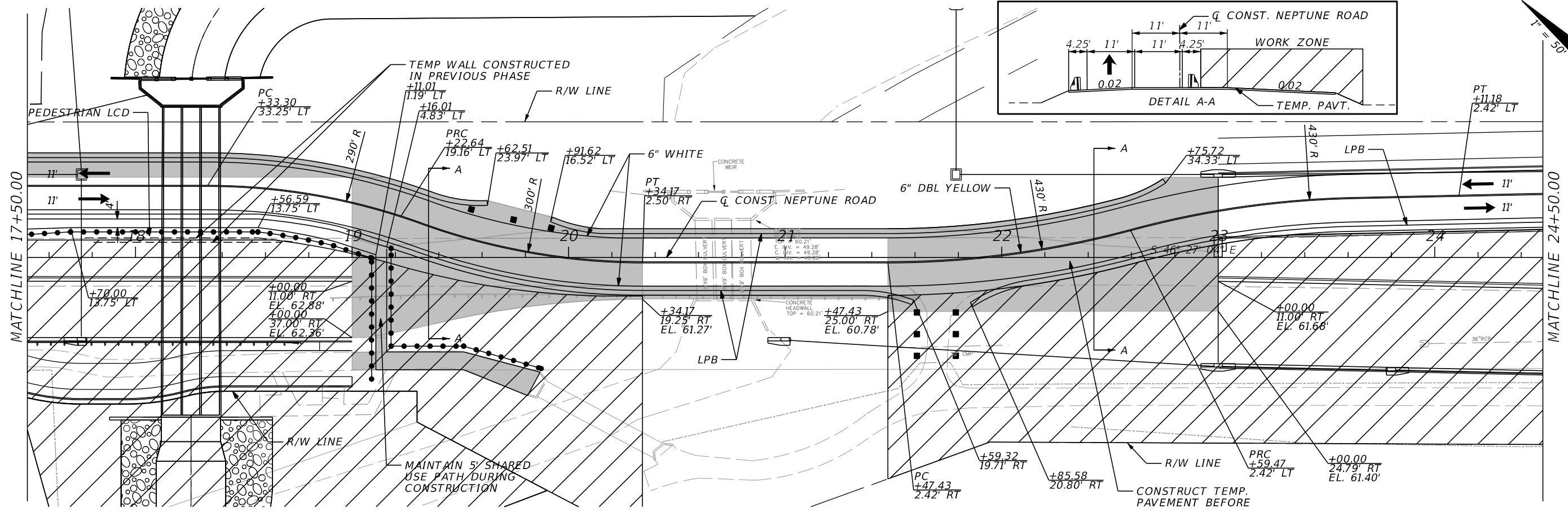
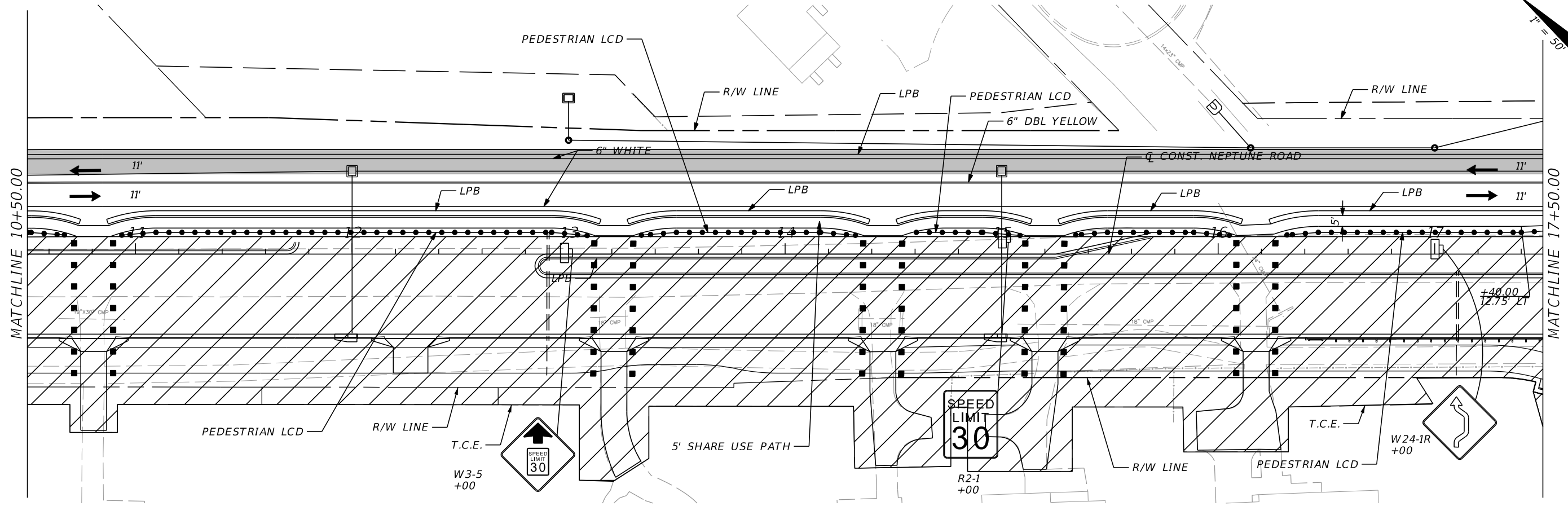
DONGHANG ZHAO, P.E.
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218

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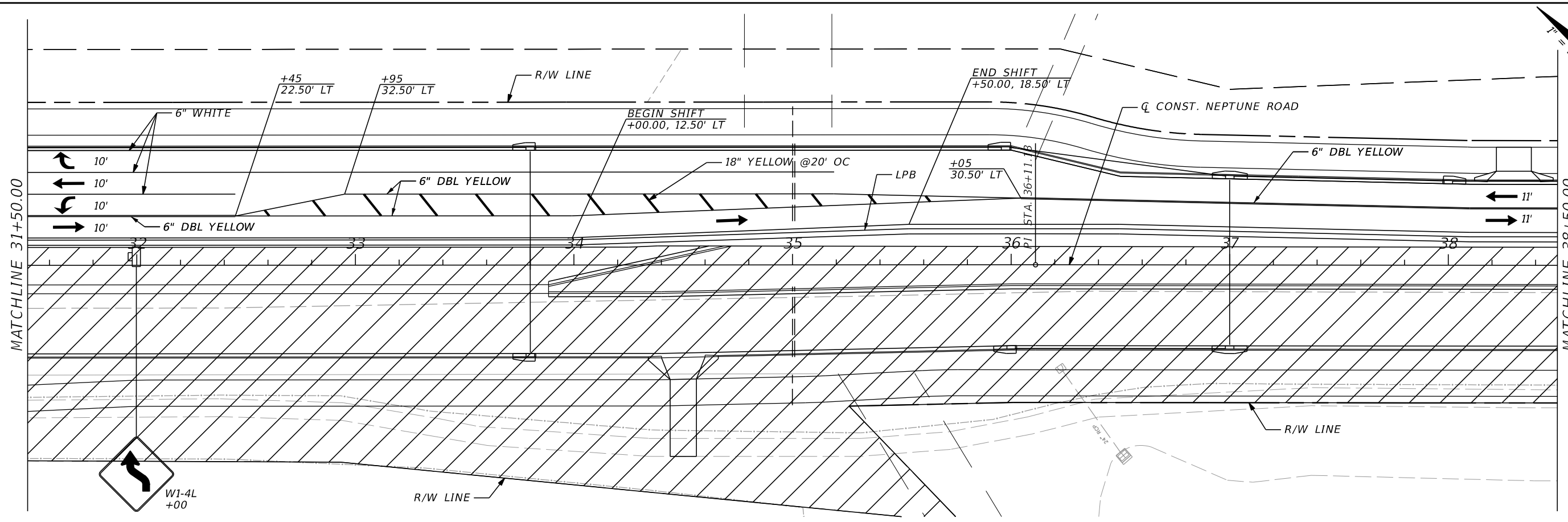
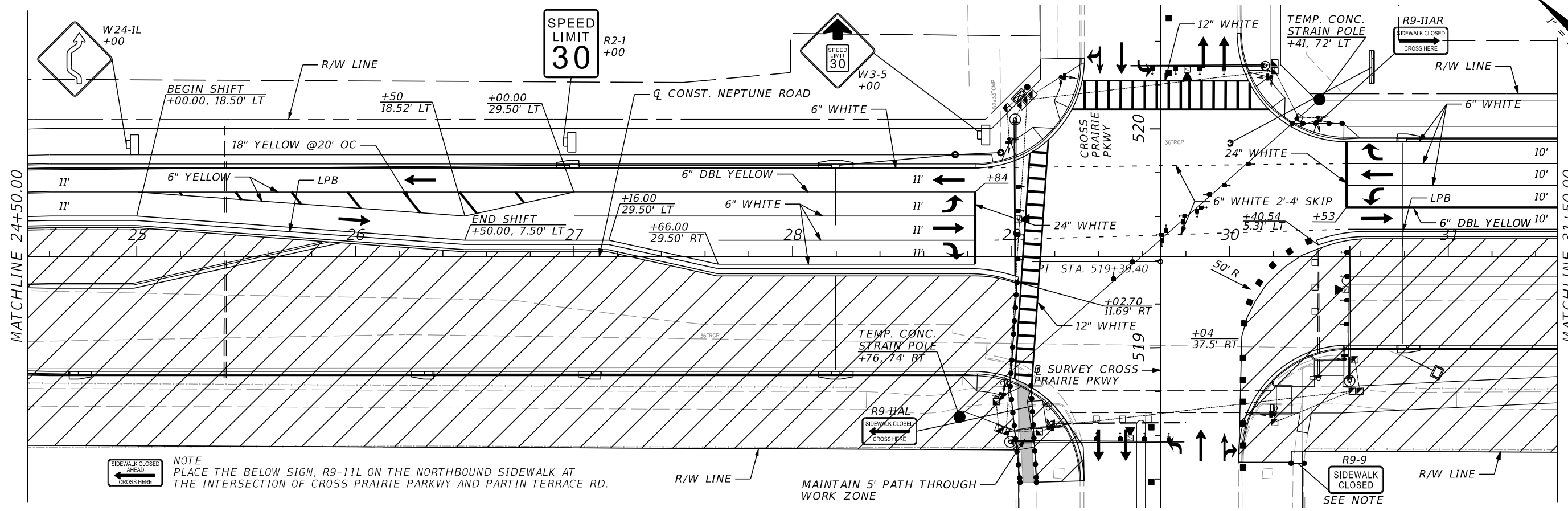
DONGHANG ZHAO, P.E.
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TTCP PHASE 3 STEP 1

SHEET NO.
219

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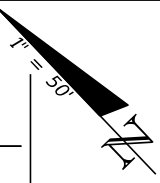
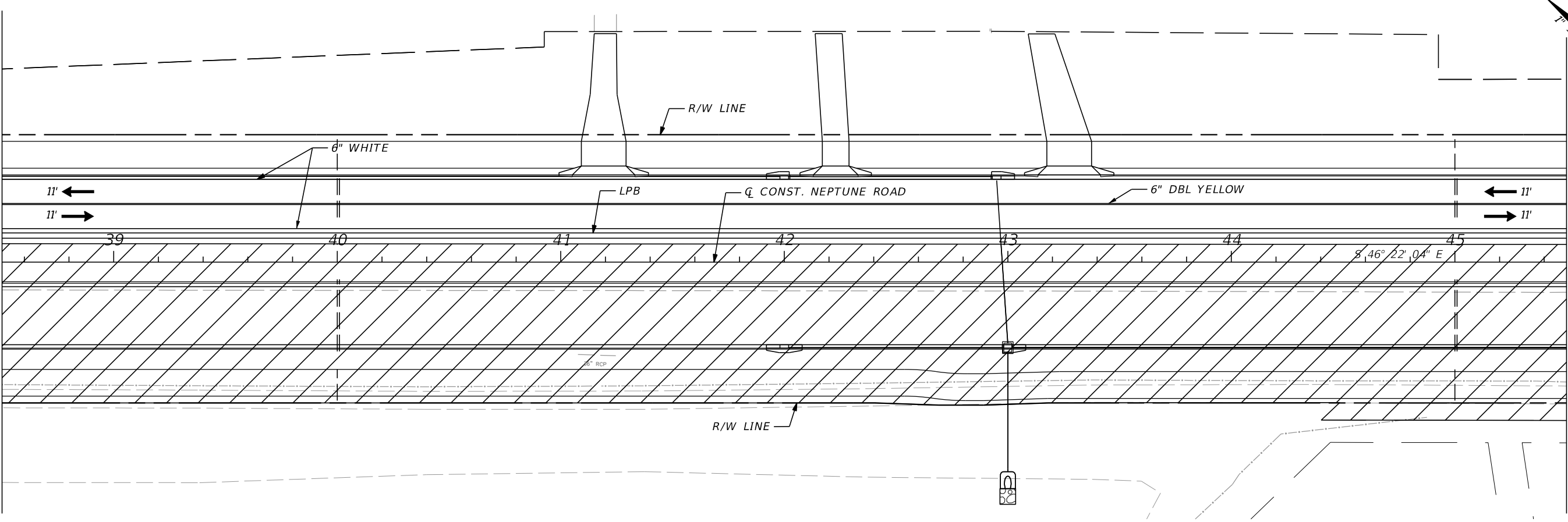
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SHEET NO.
 220

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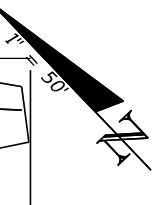
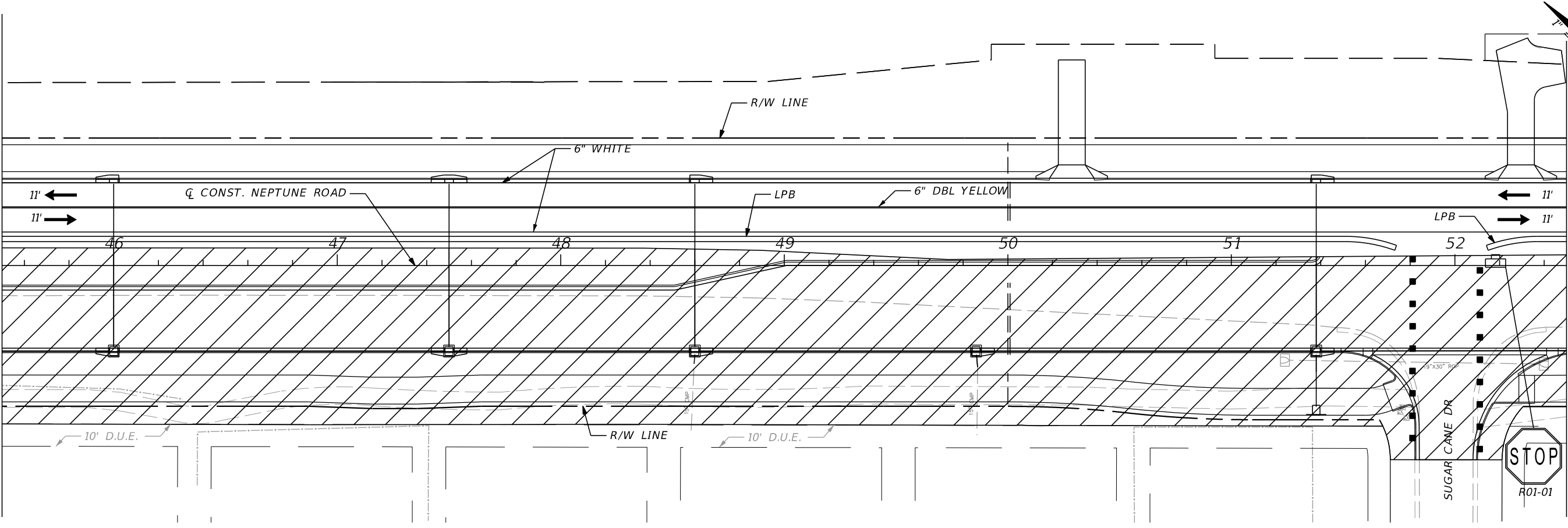
MATCHLINE 38+50.00

MATCHLINE 45+50.00



MATCHLINE 45+50.00

MATCHLINE 52+50.00



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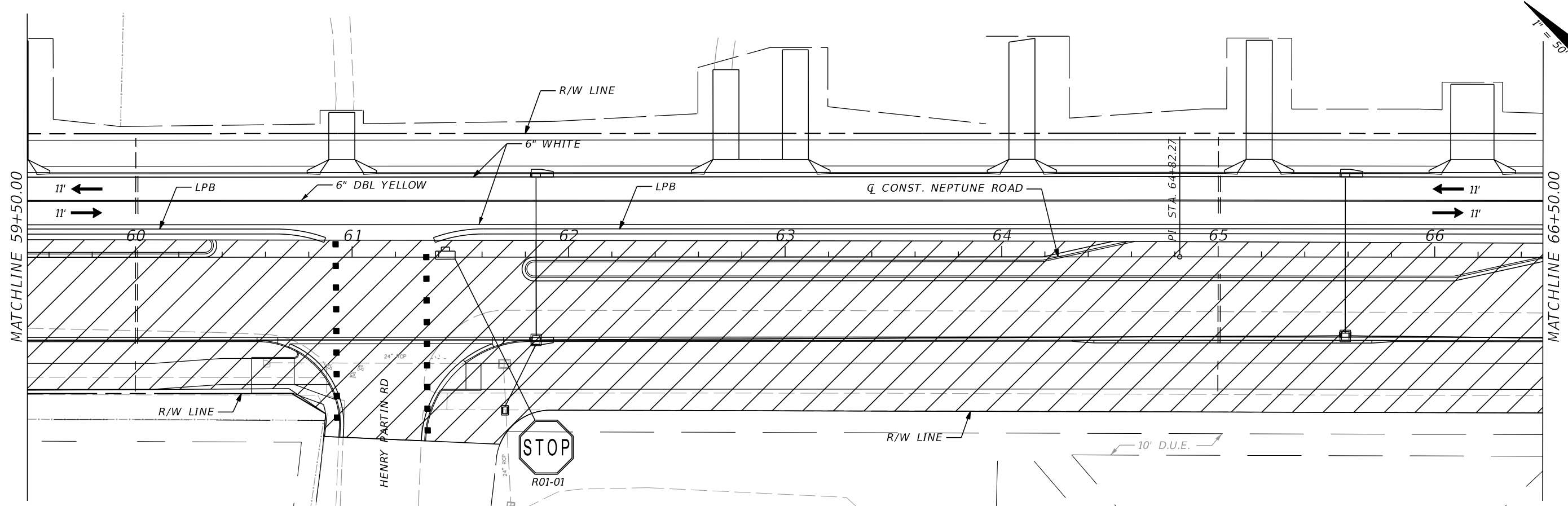
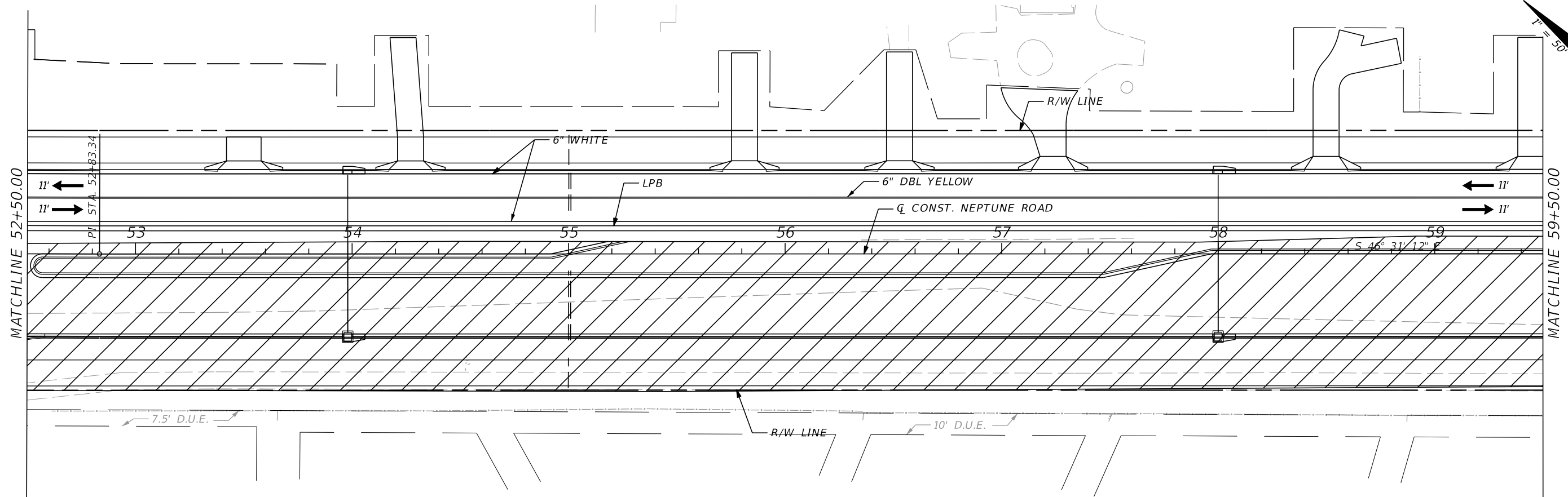
OSCEOLA COUNTY TRANSIT
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SHEET
 NO.
221

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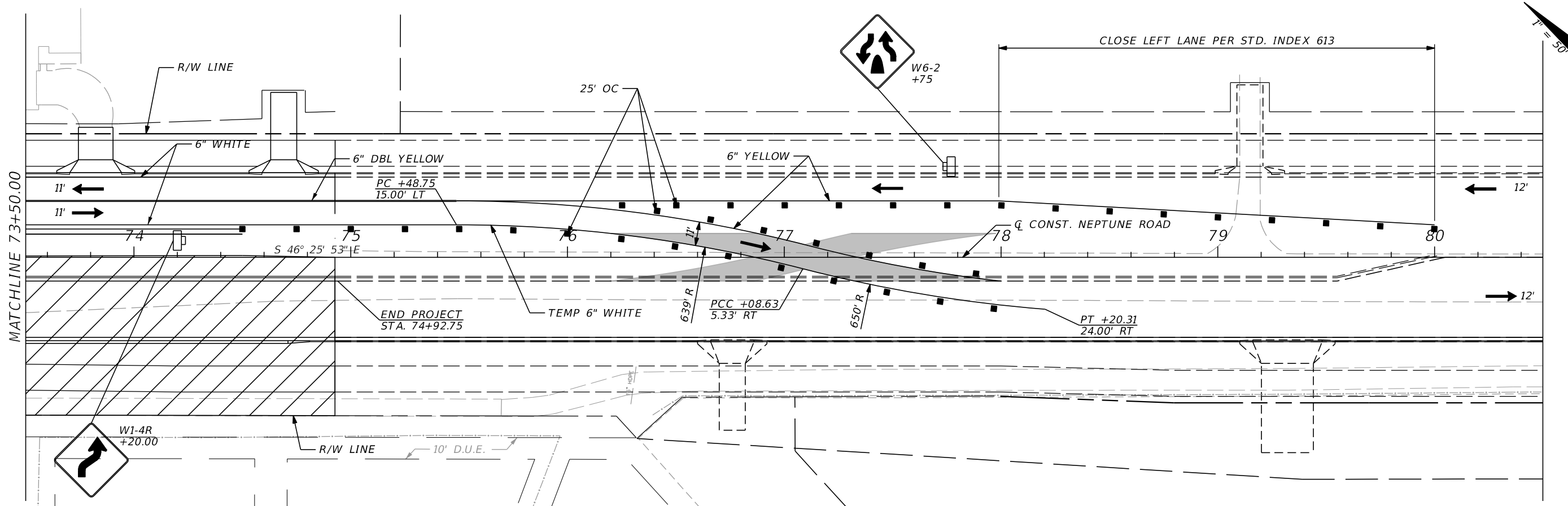
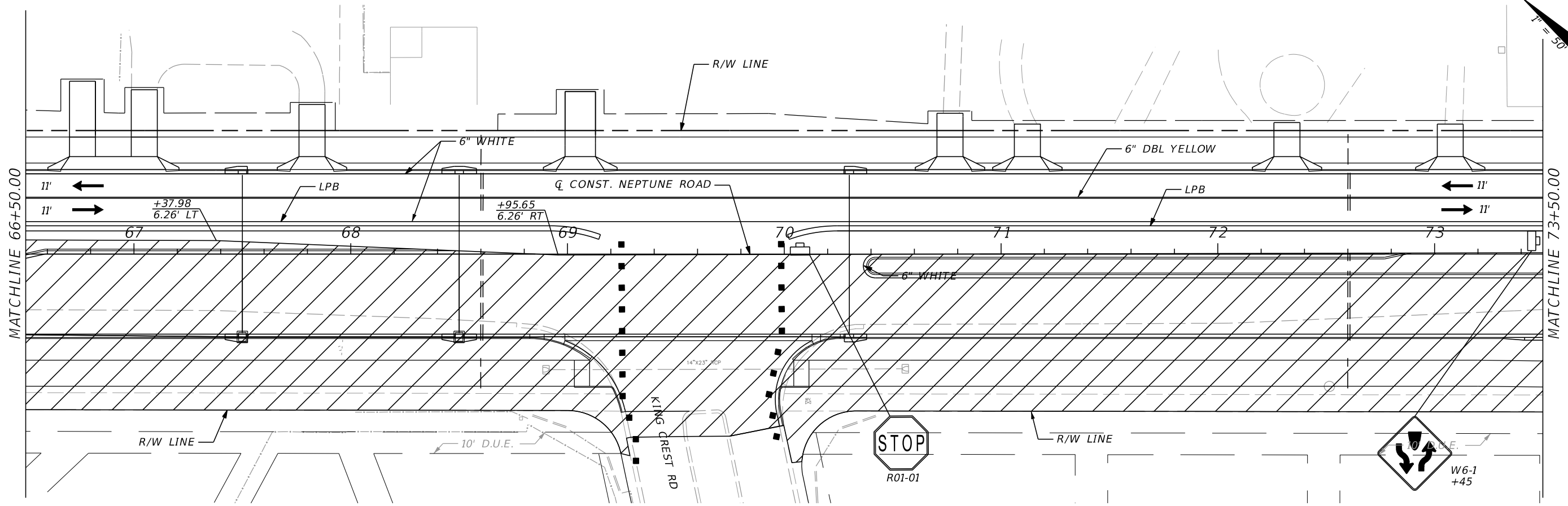
DONGHANG ZHAO, P.E.
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TTCP PHASE 3 STEP 1

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222

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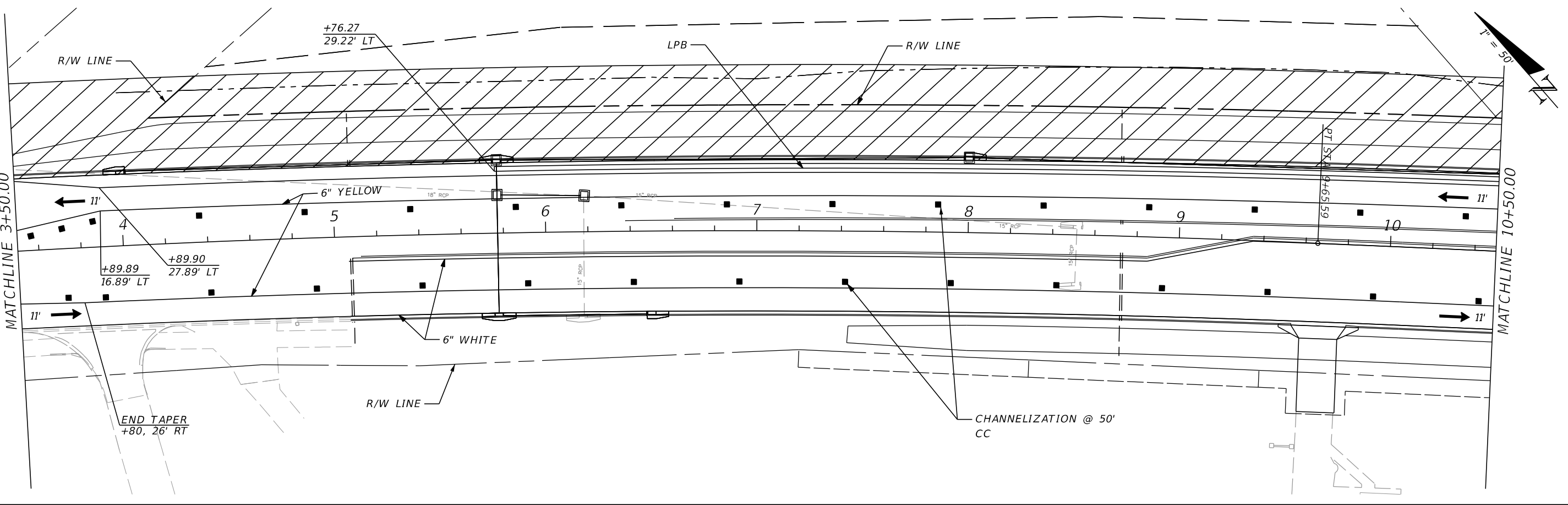
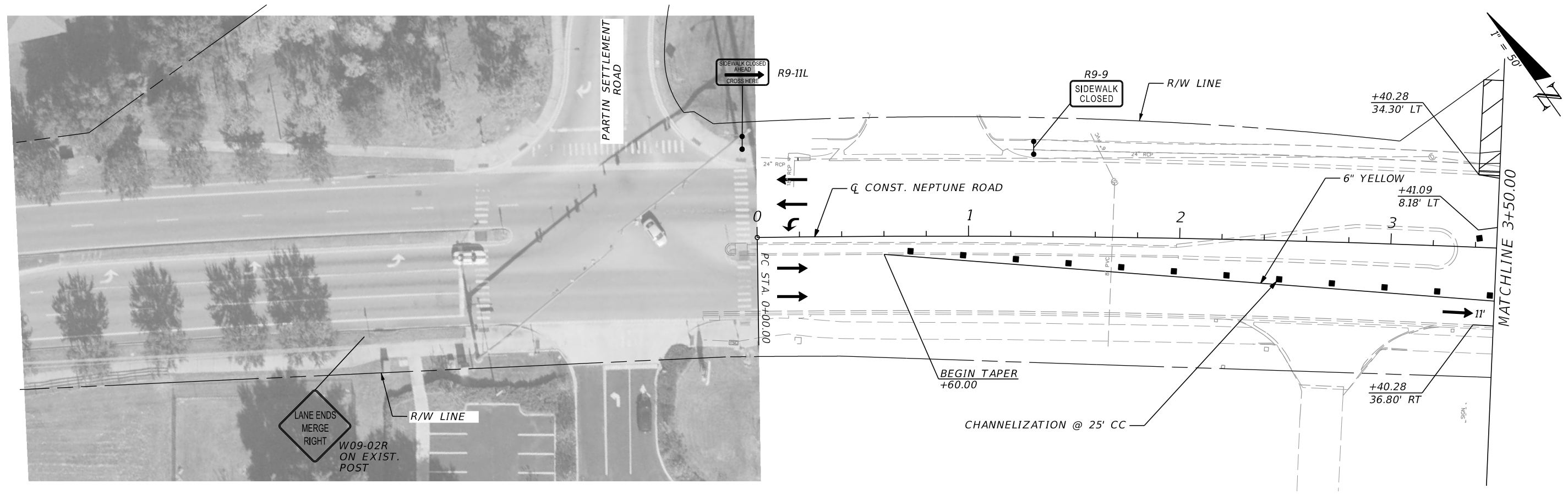
DONGHANG ZHAO, P.E.
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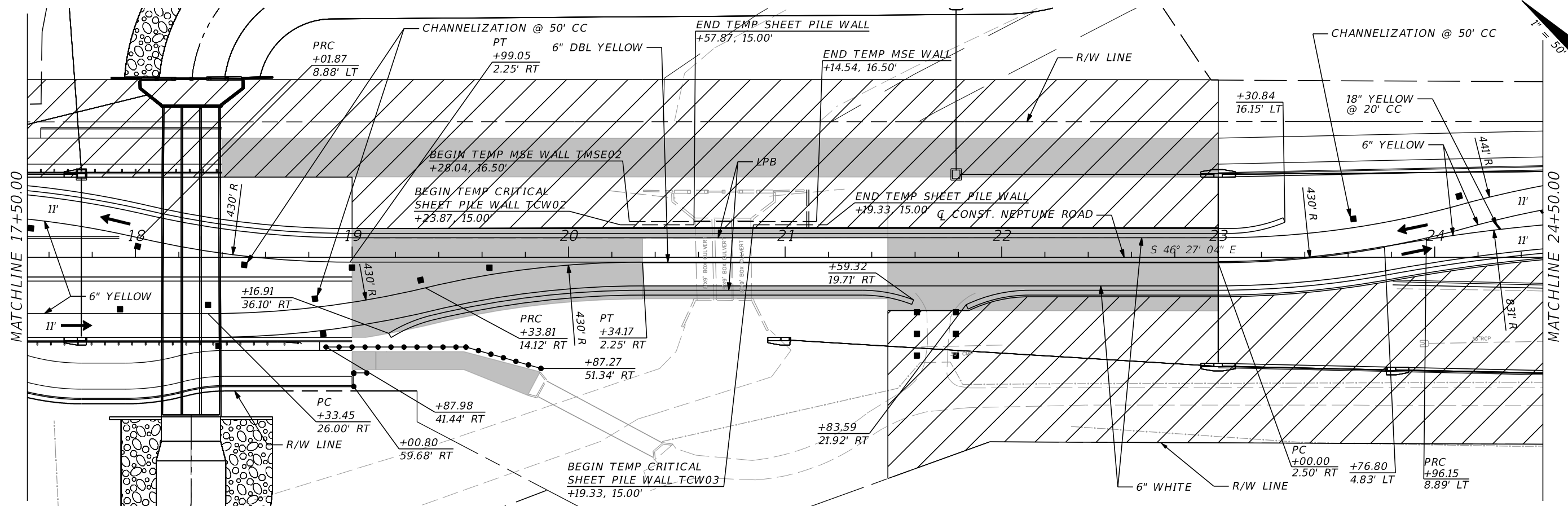
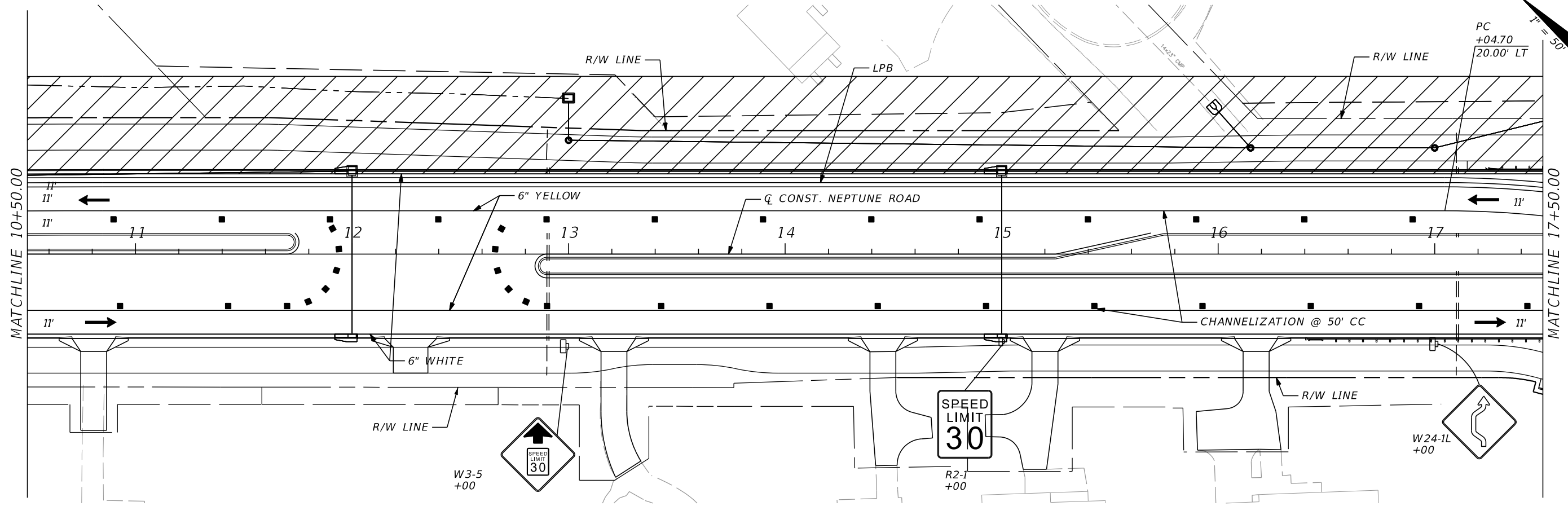


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TTCP PHASE 3 STEP 2

SHEET NO.
224

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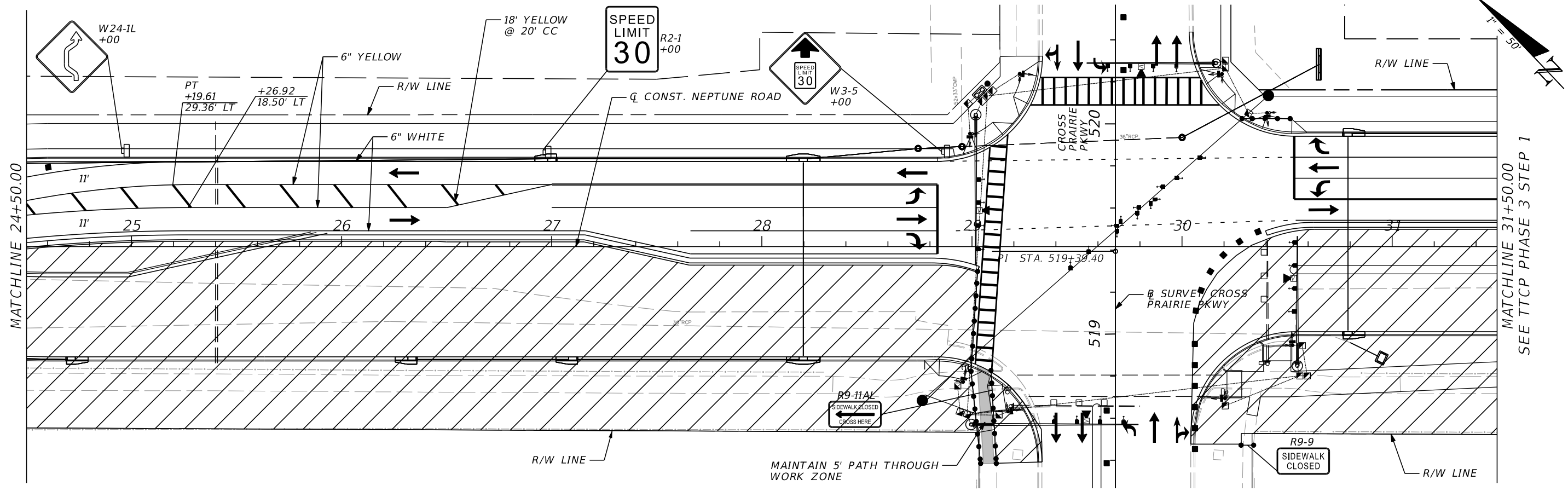
DONGHANG ZHAO, P.E.
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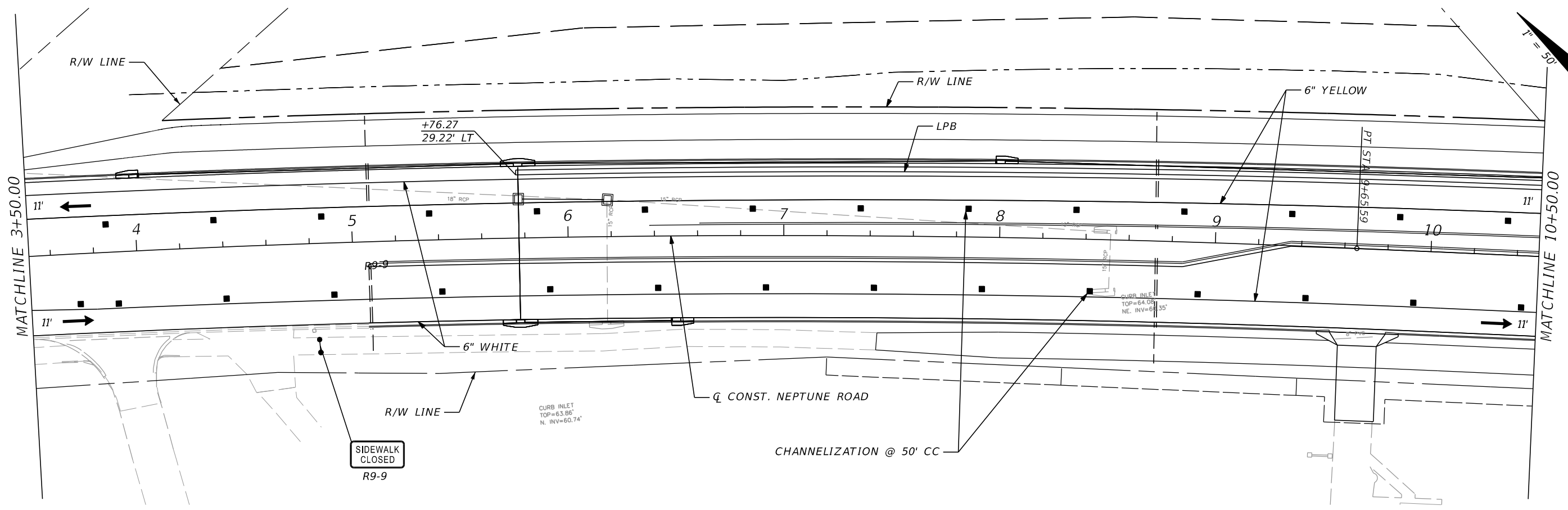
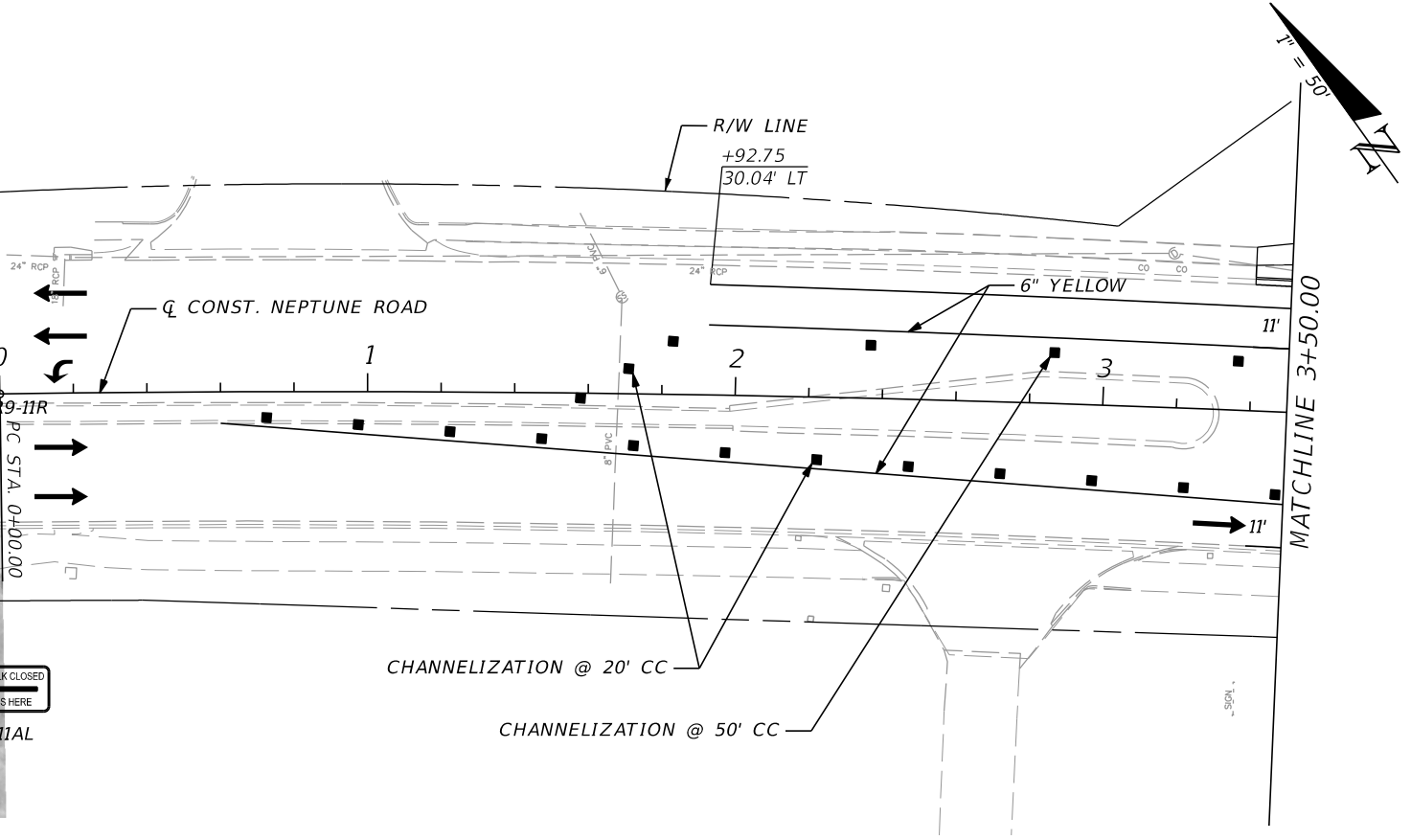
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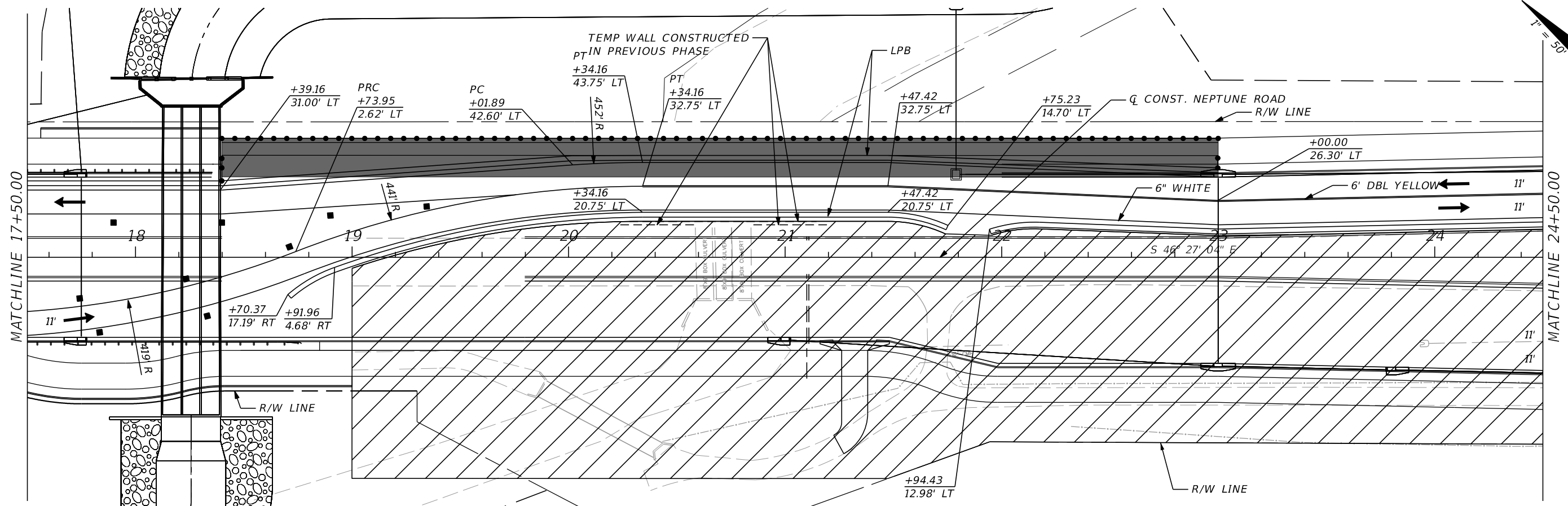
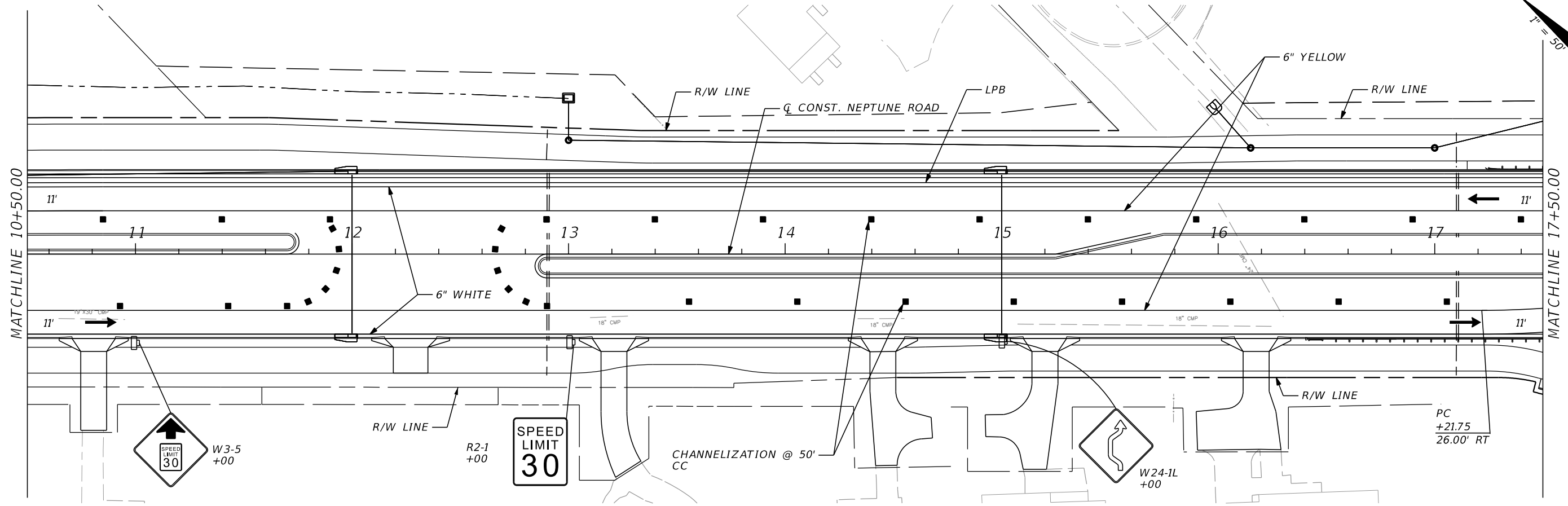
OSCEOLA COUNTY TRANSIT
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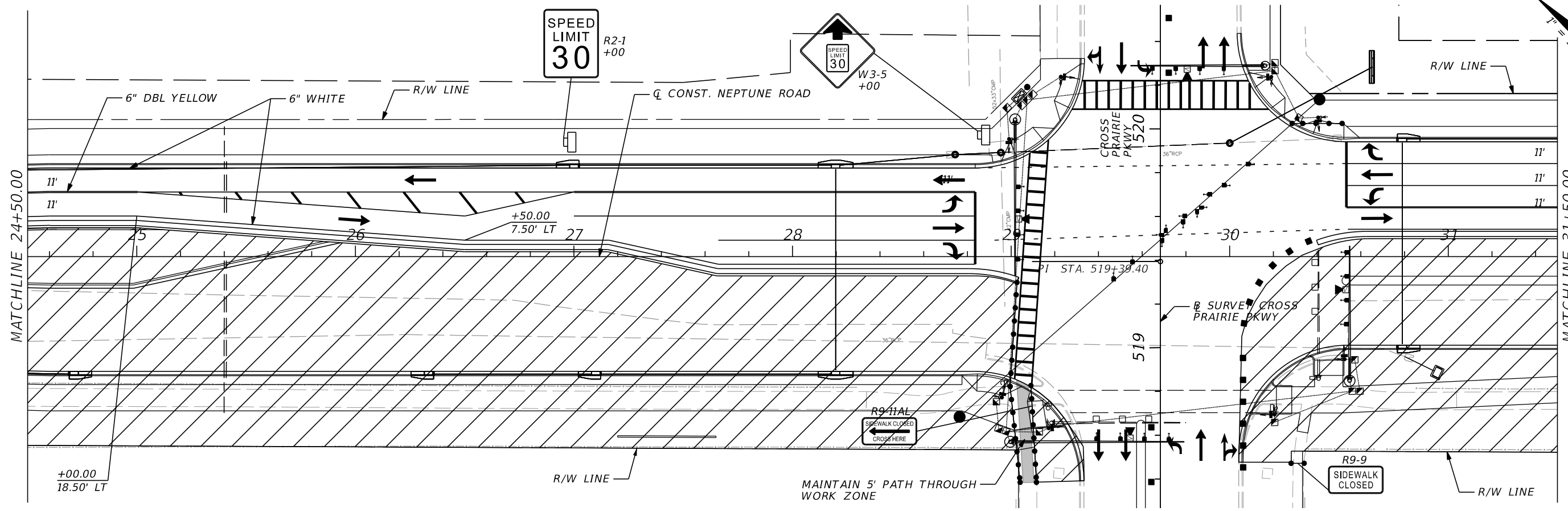
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TTCP PHASE 3 STEP 3

SHEET NO.
228

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MATCHLINE 31+50.00
SEE TTC PHASE 3 STEP 1

MATCHLINE 24+50.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

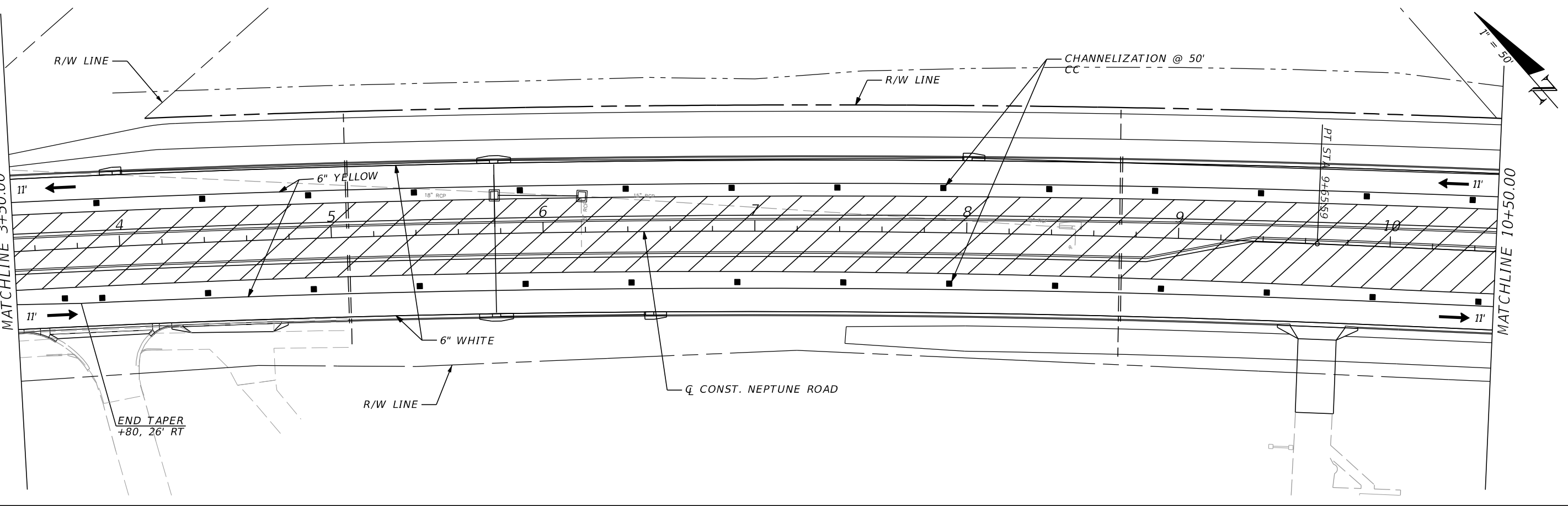
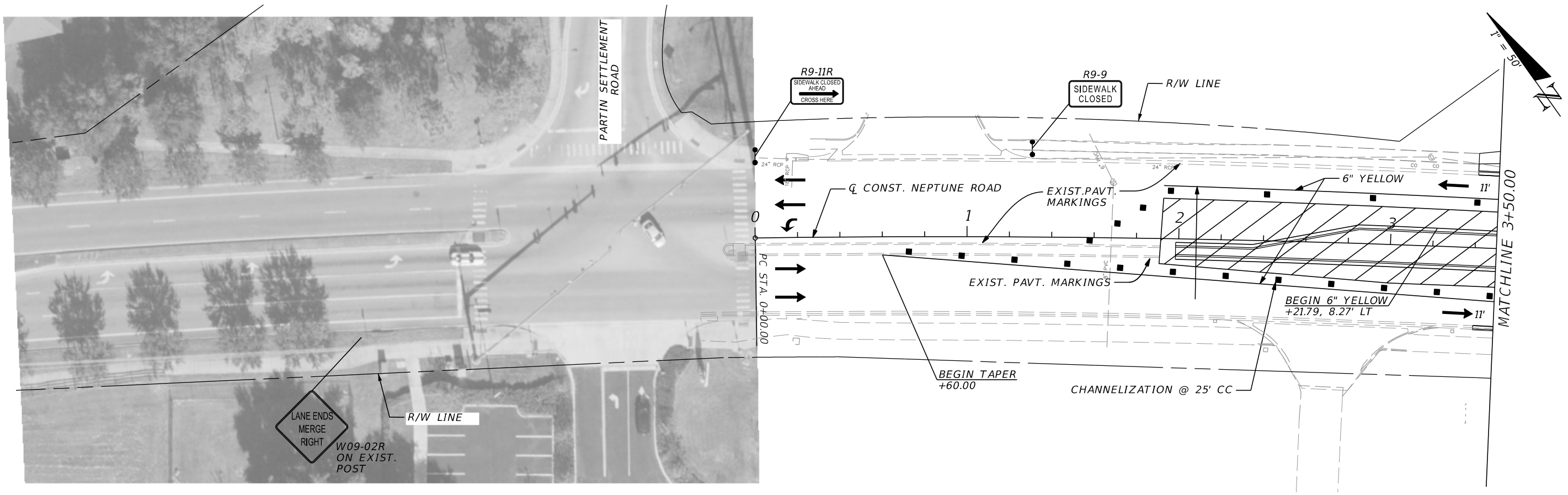
DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

 OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

TTCP PHASE 3 STEP 3

SHEET NO.
229

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
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ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE: (407) 742-0662 FAX: (407) 742-0600

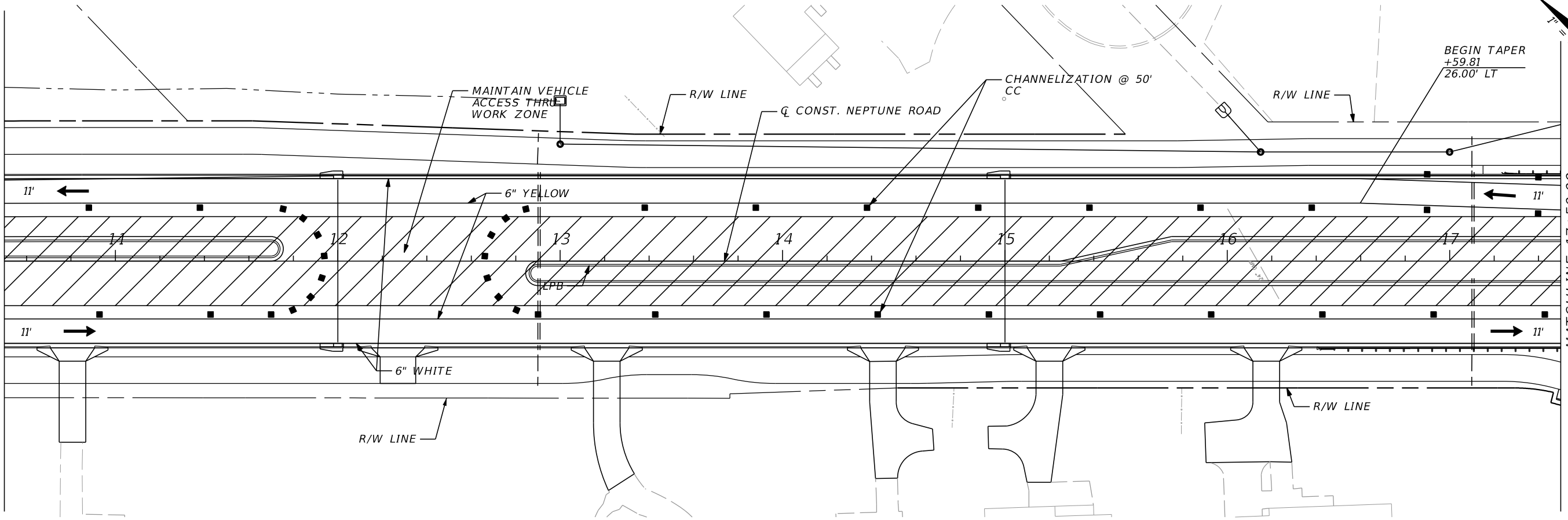
TTCP PHASE 4

SHEET NO.
230

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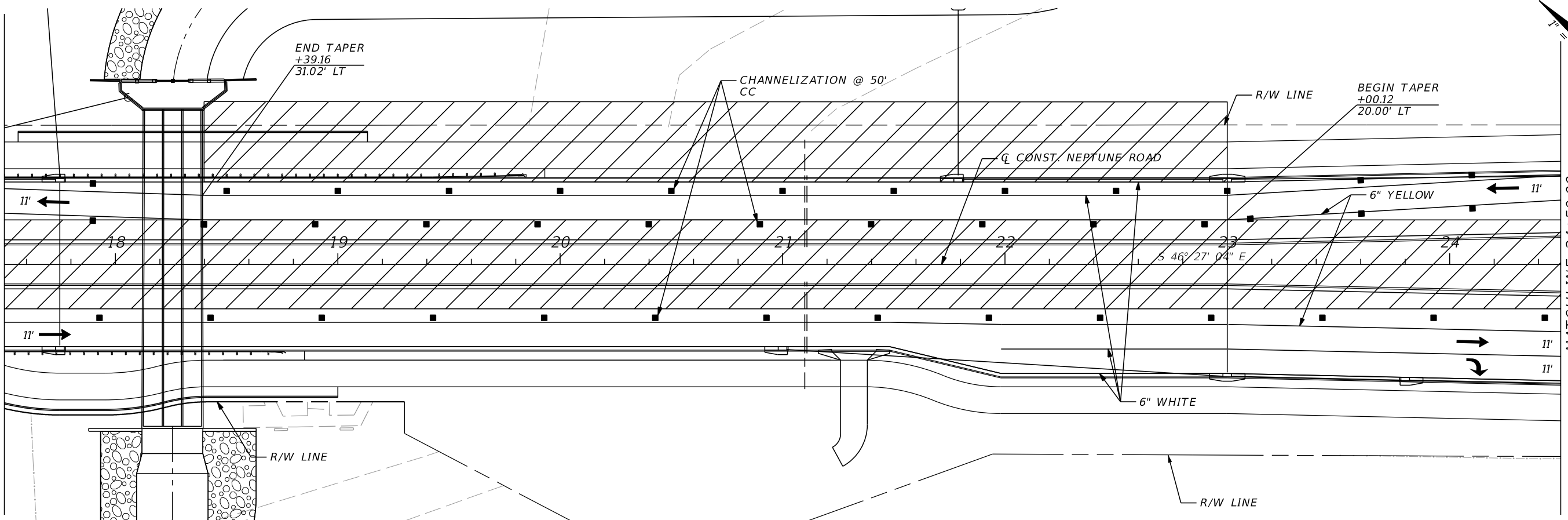
MATCHLINE 10+50.00

MATCHLINE 17+50.00



MATCHLINE 17+50.00

MATCHLINE 24+50.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801



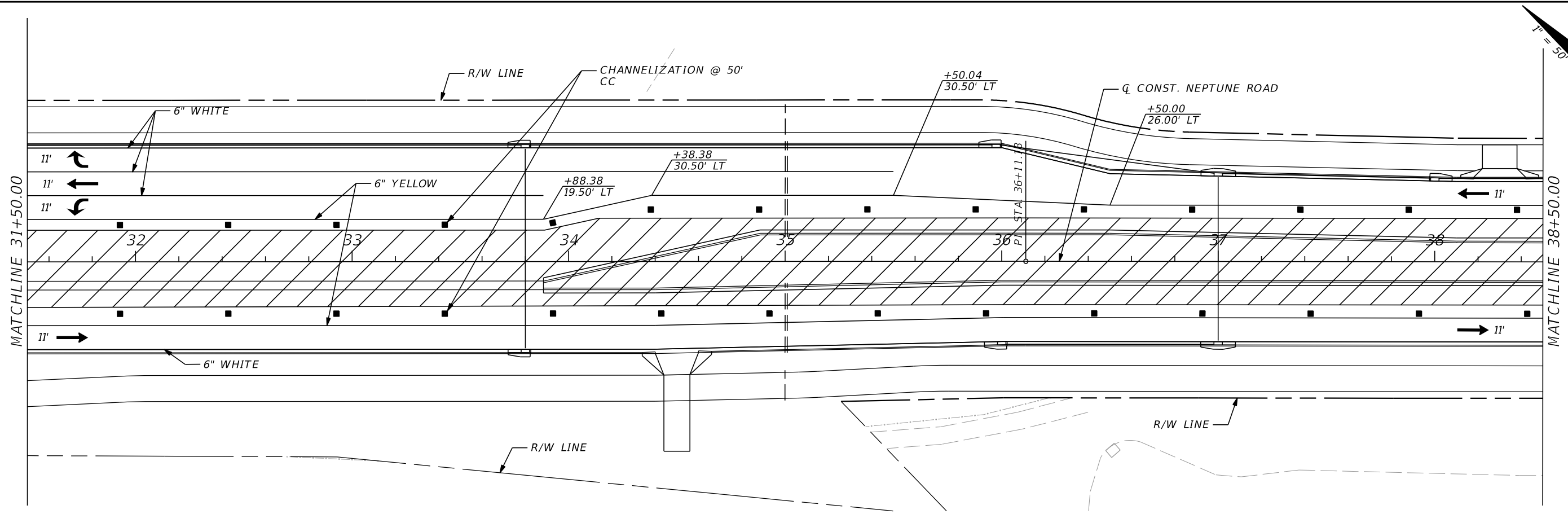
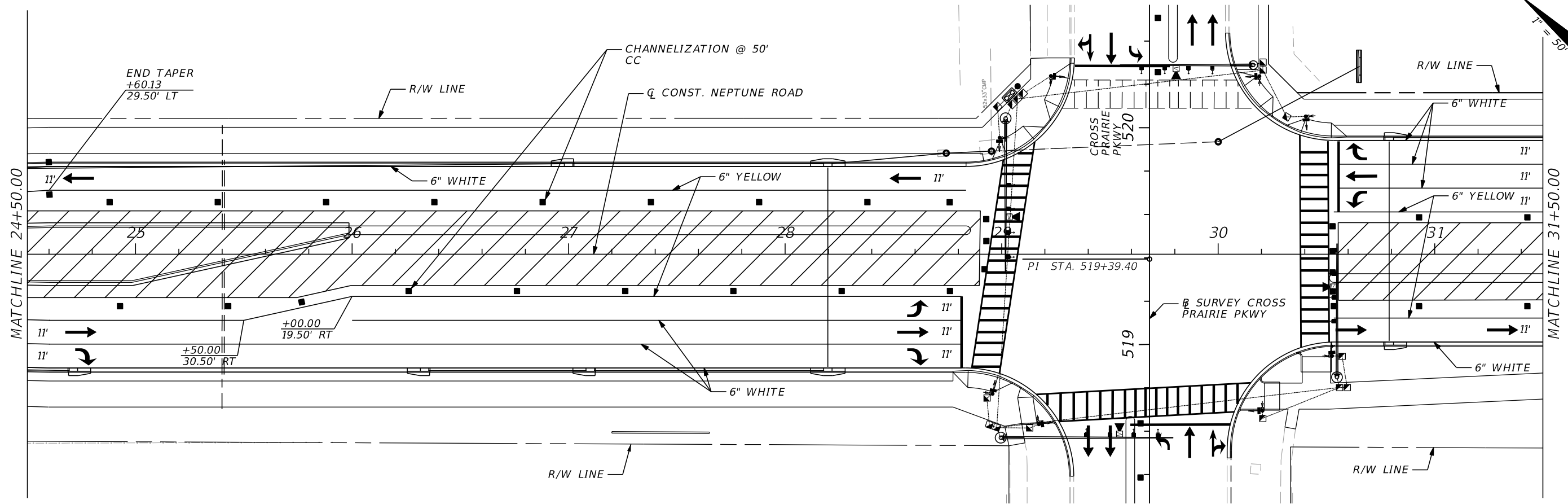
OSCEOLA COUNTY TRANSIT
 AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE:(407) 742-0662 FAX:(407) 742-0600

TTCP PHASE 4

SHEET
 NO.
231

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE: (407) 742-0662 FAX: (407) 742-0600

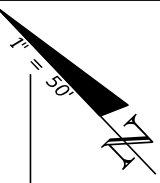
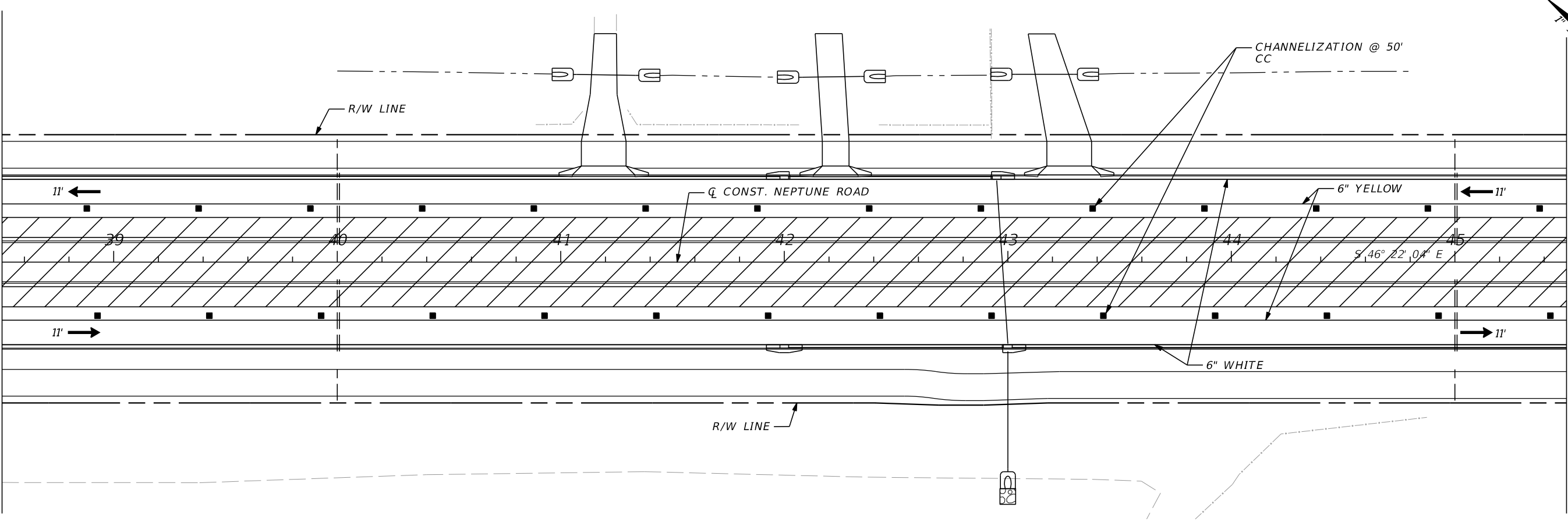
TTCP PHASE 4

SHEET NO.
232

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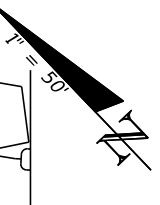
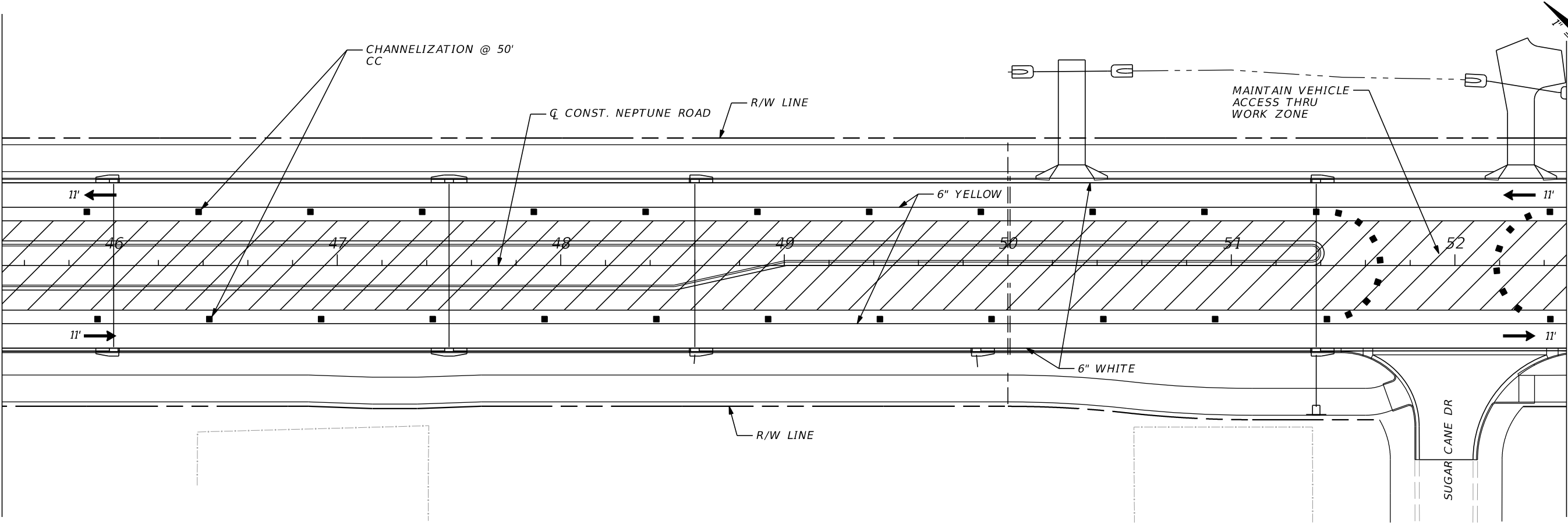
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MATCHLINE 45+50.00



MATCHLINE 45+50.00

MATCHLINE 52+50.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

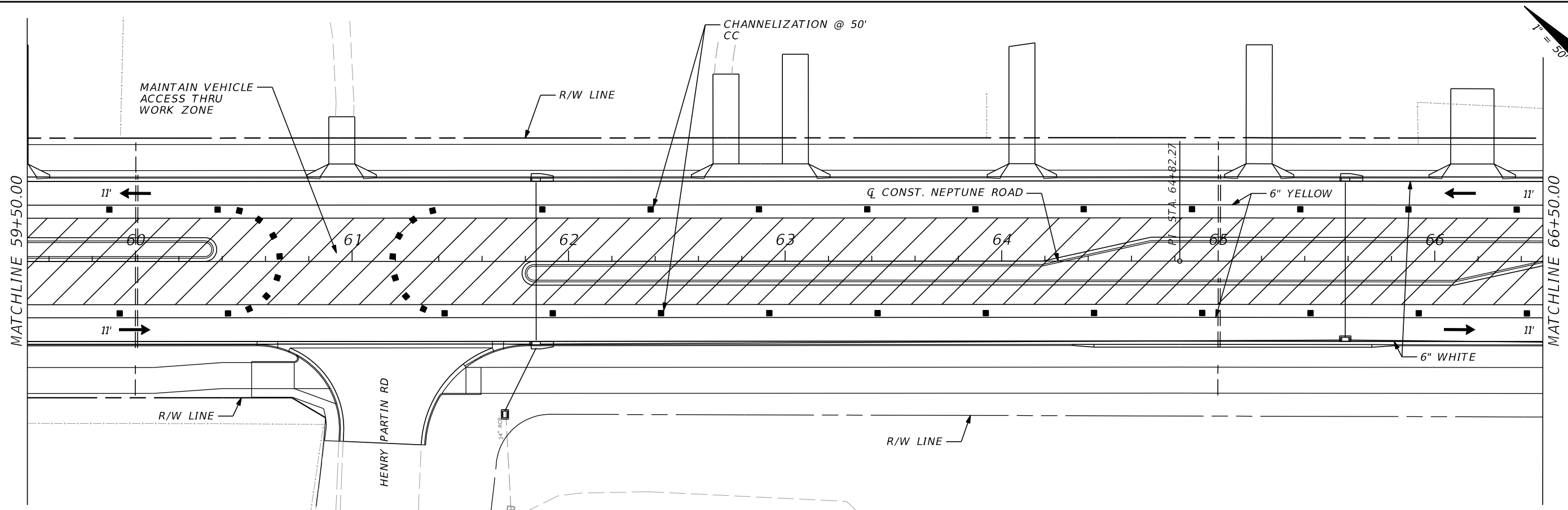
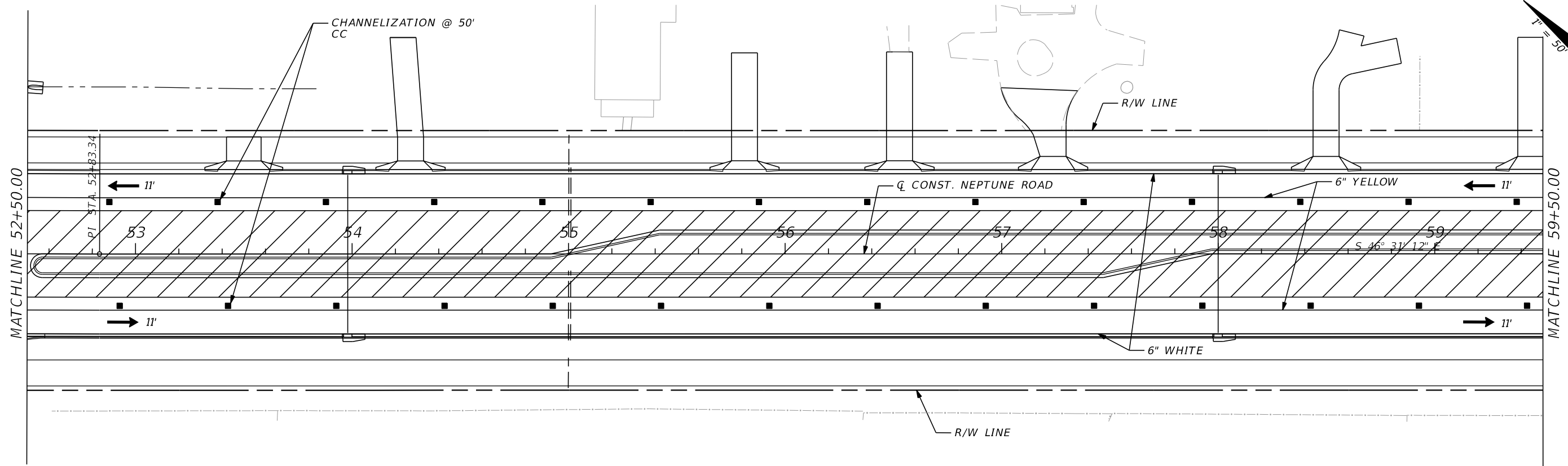
DONGHANG ZHAO, P.E.
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 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

 OSCEOLA COUNTY TRANSIT
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 KISSIMMEE, FLORIDA 34741-5488
 PHONE:(407) 742-0662 FAX:(407) 742-0600

TTCP PHASE 4

SHEET
 NO.
233

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



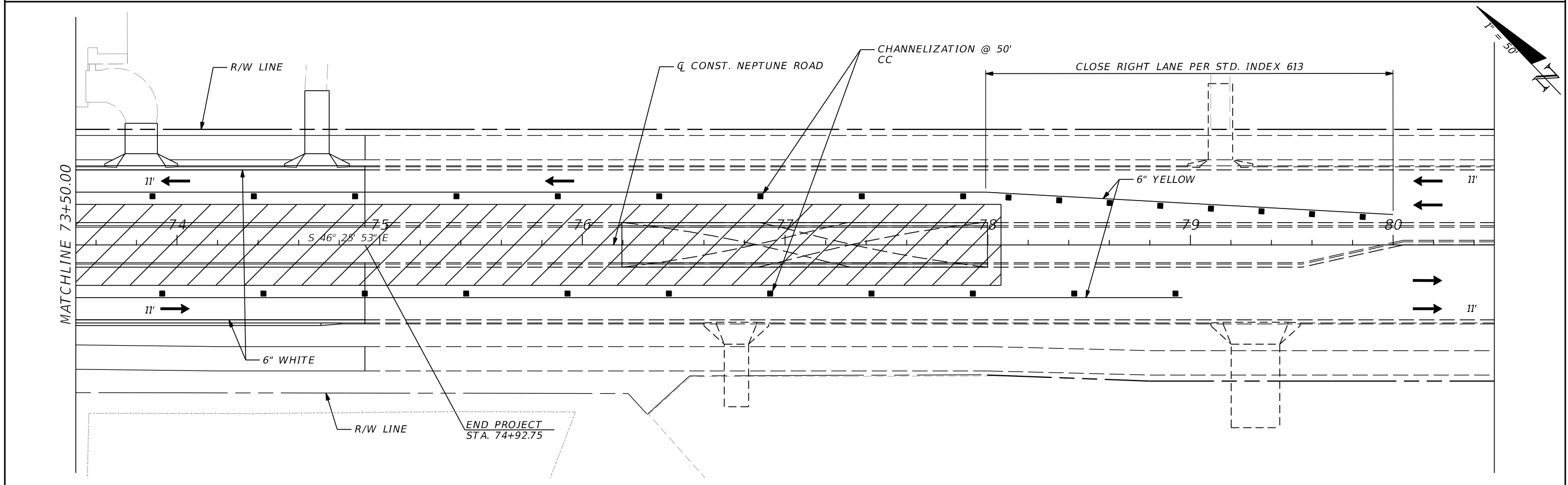
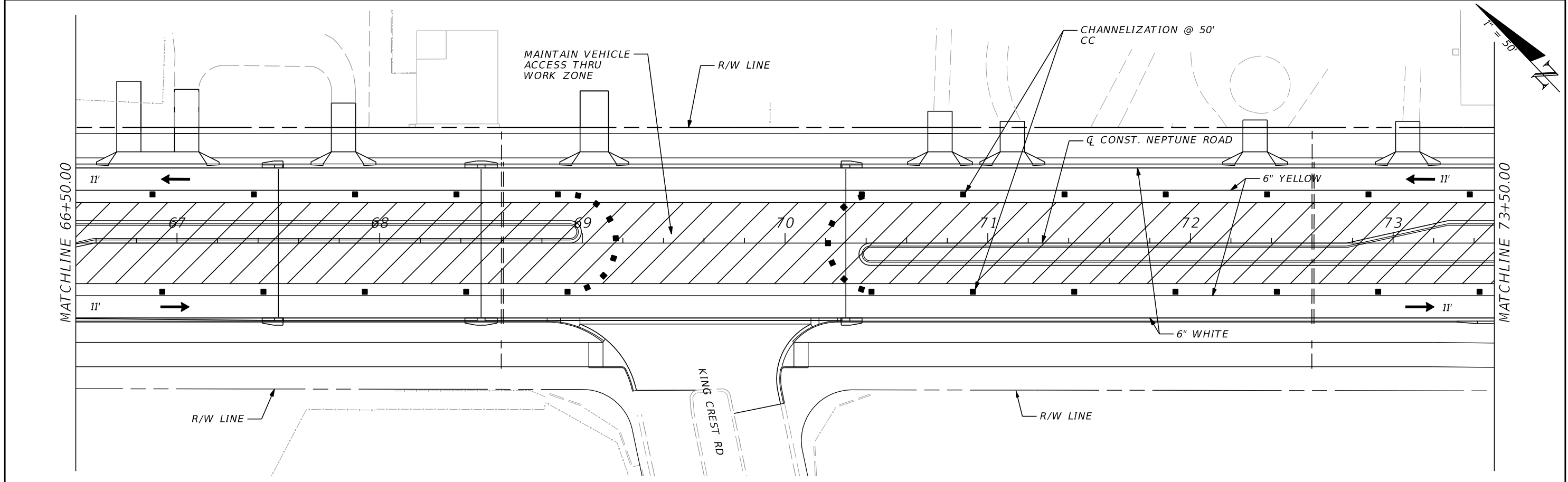
OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

TTCP PHASE 4

SHEET
NO.
234

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
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GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

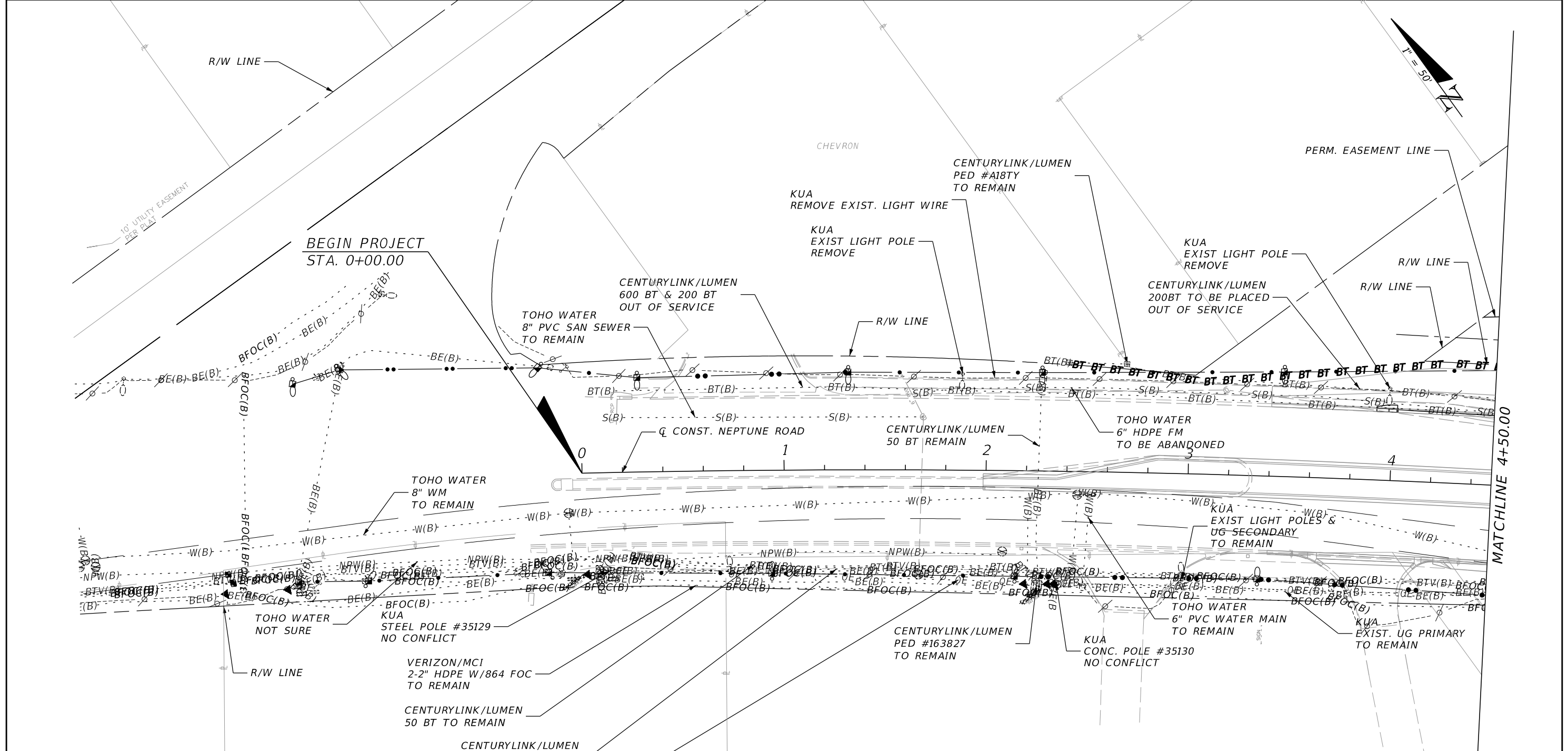


OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE: (407) 742-0662 FAX: (407) 742-0600

TTCP PHASE 4

SHEET NO.
235

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UTILITY NOTES


1. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED Vv, Vh, AND Vvh) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.

2. UTILITY/AGENCY OWNERS: COMPANY CONTACT TELEPHONE NUMBERS

UTILITY/AGENCY OWNERS: COMPANY	CONTACT	TELEPHONE NUMBERS
BRIGHT HOUSE NETWORK LLC DBA CHARTER/SPECTRUM	DWAYNE LEACHMAN	(407) 532-8510
CENTURYLINK	MARLON BROWN	(863) 452-3132
CENTURYLINK (FKA LEVEL 3/QWEST) AKA LUMEN	RON PRARIO	(407) 754-0116
KISSIMMEE UTILITY AUTHORITY (KUA)	MAGDALENA FERNANDEZ	(407) 933-7777 x6650
TOHO WATER AUTHORITY	ROBERT PELHAM	(407) 944-5132
VERISON BUSINESS/MCI	TIM COLE	(407) 618-2078

REVISIONS	
DATE	DESCRIPTION

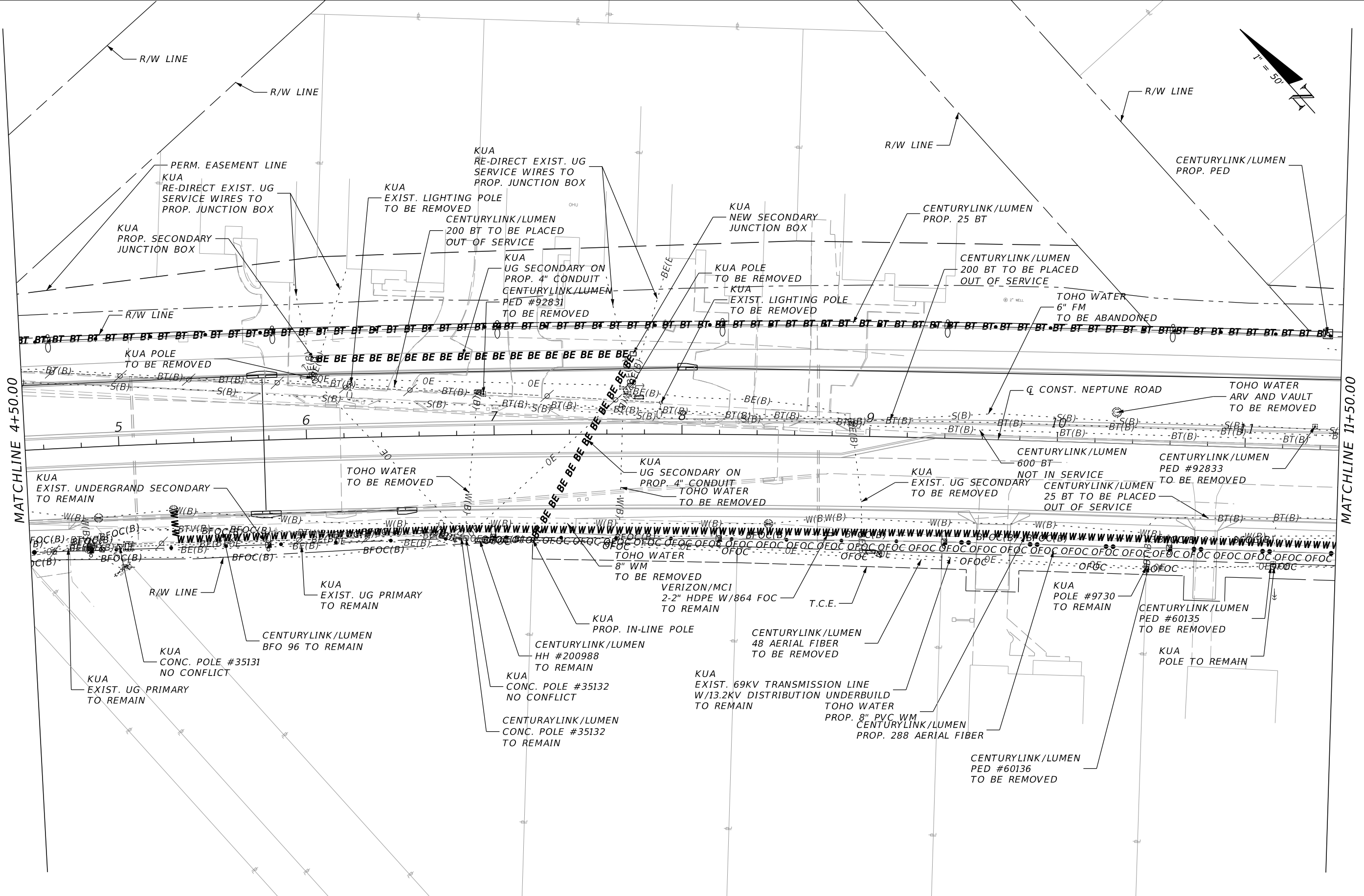
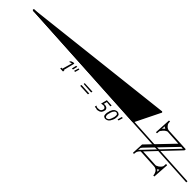
DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

 OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
 1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE:(407) 742-0662 FAX:(407) 742-0600

UTILITY ADJUSTMENT
PLAN (1)

SHEET NO.
236

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MATCHLINE 4+50.00

MATCHLINE 11+50.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

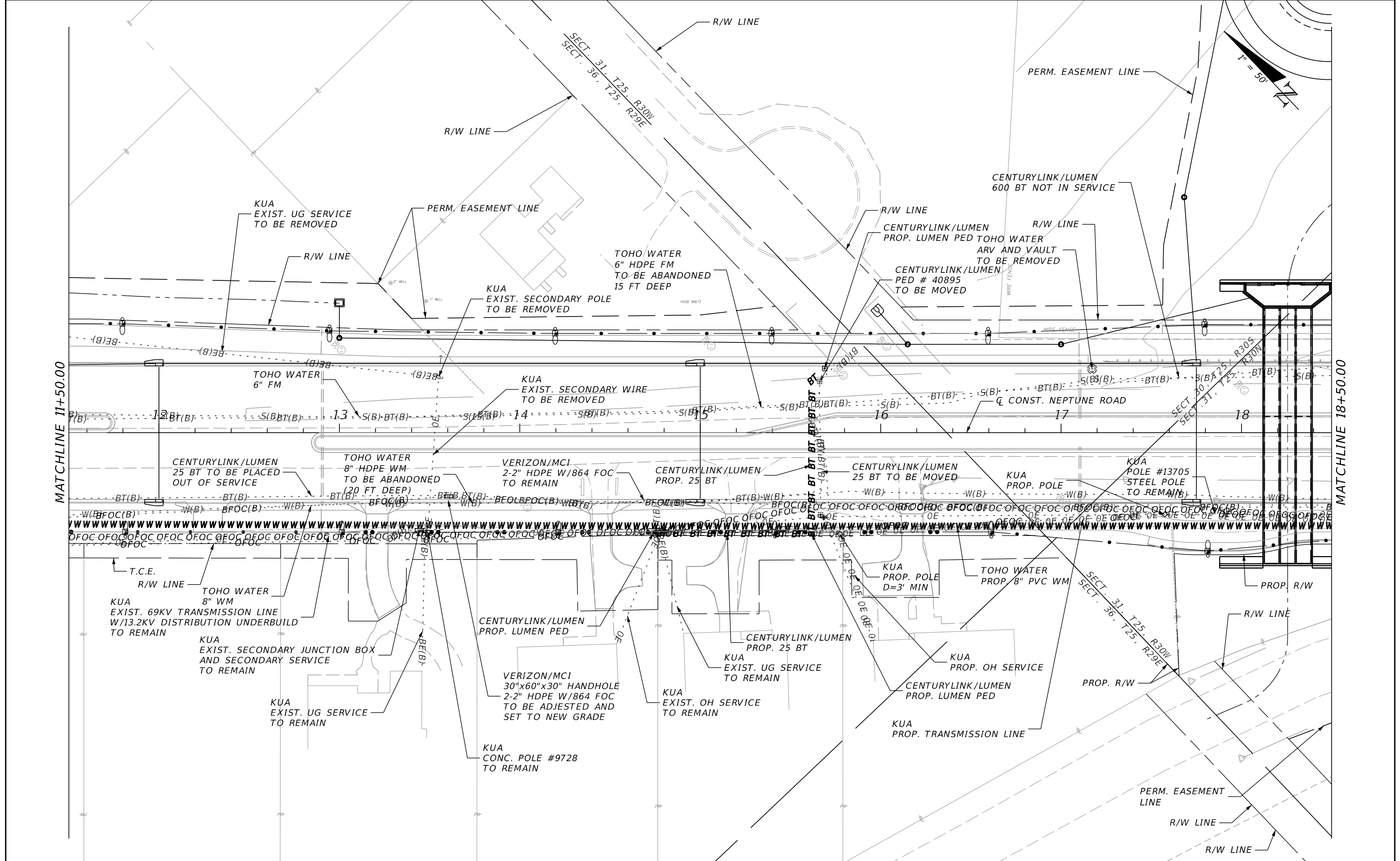
OSCEOLA COUNTY TRANSIT AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE:(407) 742-0662 FAX:(407) 742-0600

UTILITY ADJUSTMENT
PLAN (2)


SHEET NO.
237

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

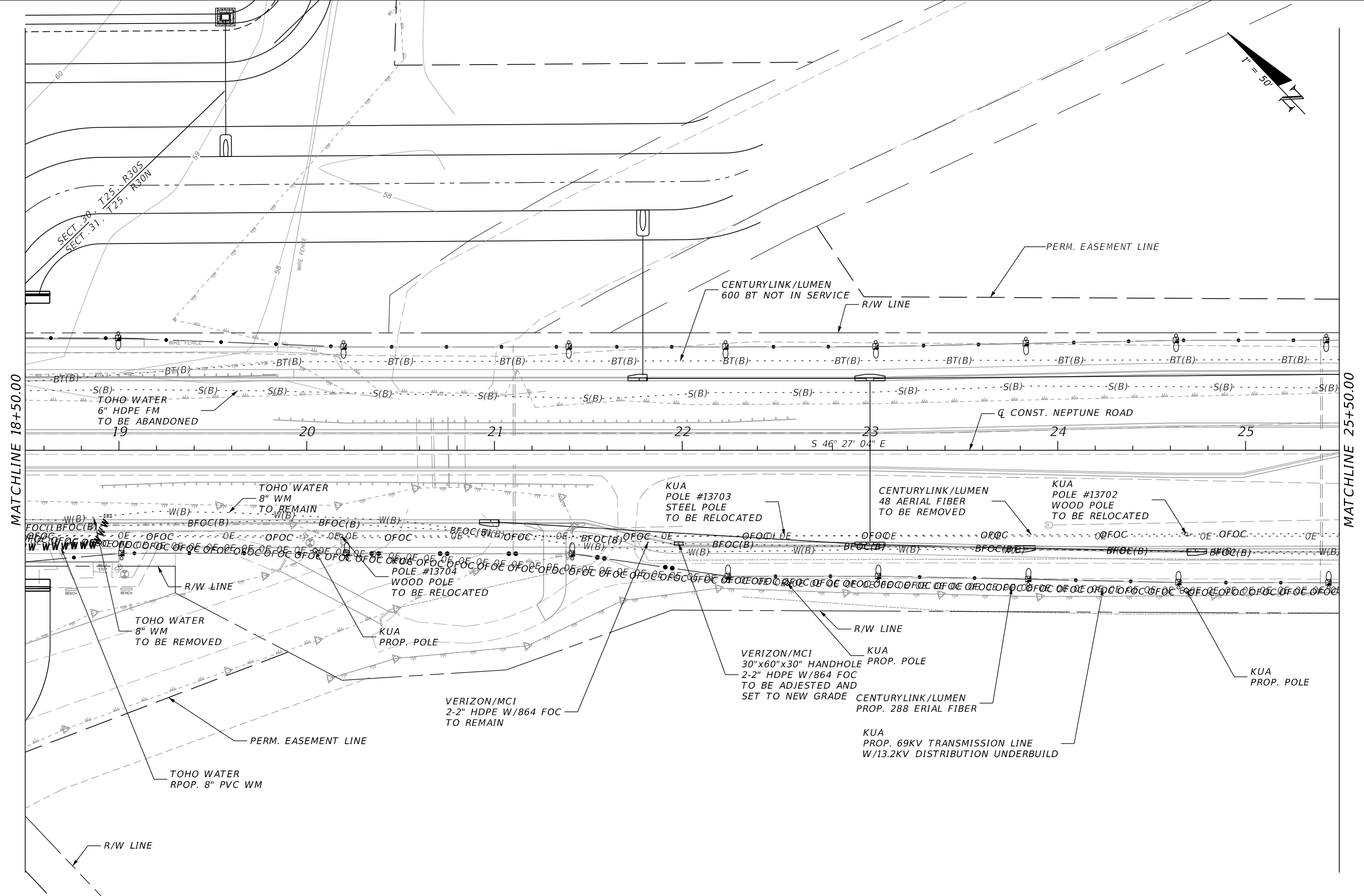
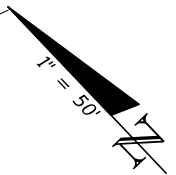
DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801

 OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE: (407) 742-0662 FAX: (407) 742-0600

UTILITY ADJUSTMENT
PLAN (3)

SHEET NO.
238

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MATCHLINE 18+50.00

MATCHLINE 25+50.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

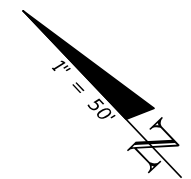


OSCEOLA COUNTY TRANSIT
 AND TRANSPORTATION
 1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE:(407) 742-0662 FAX:(407) 742-0600

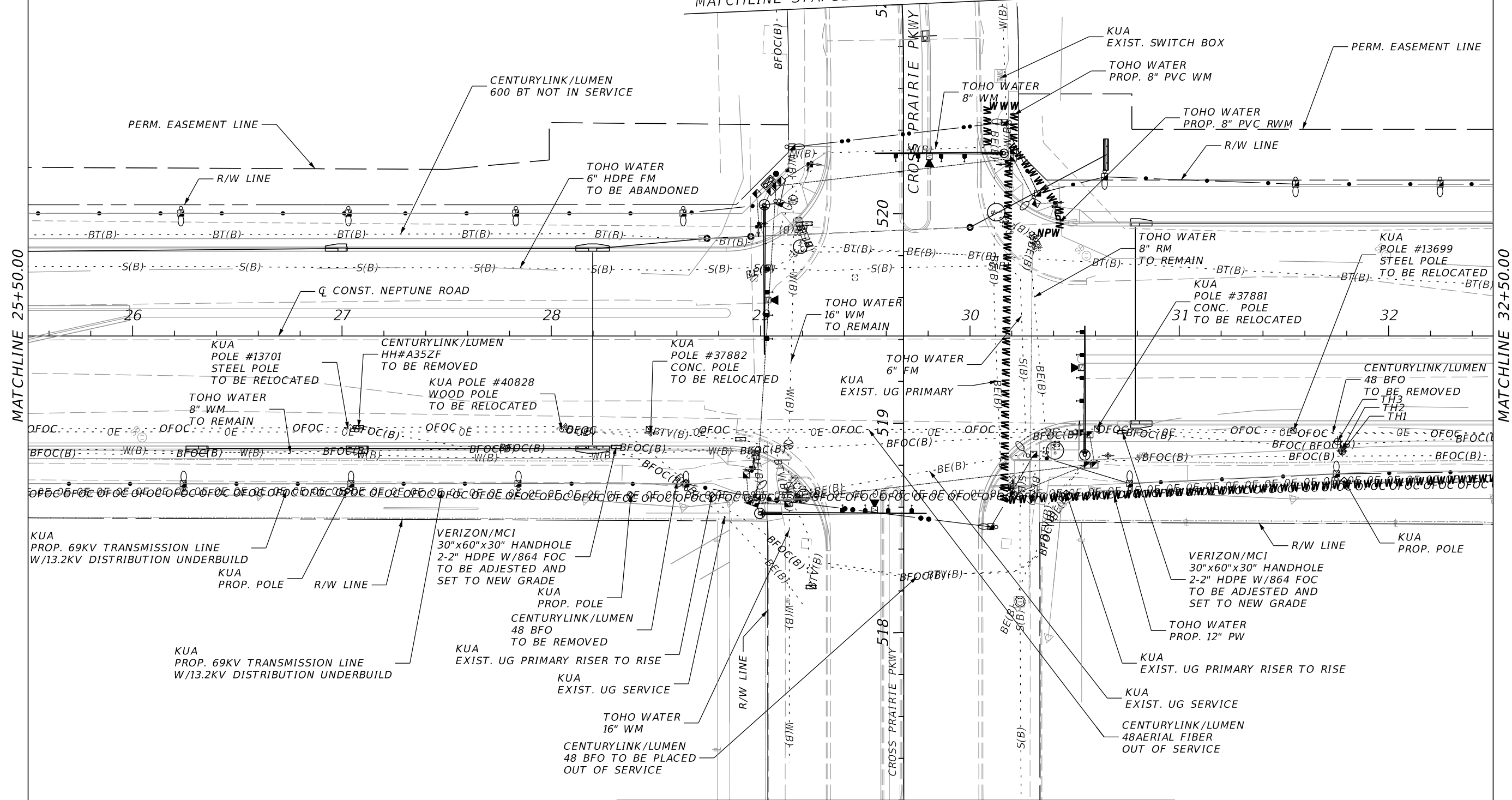
UTILITY ADJUSTMENT
PLAN (4)

SHEET
 NO.
239

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MATCHLINE STA. 521+00.00 SEE UTILITY ADJUSTMENT PLAN (14)



MATCHLINE 25+50.00

MATCHLINE 32+50.00

MATCHLINE STA. 517+20.00 SEE UTILITY ADJUSTMENT PLAN (13)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

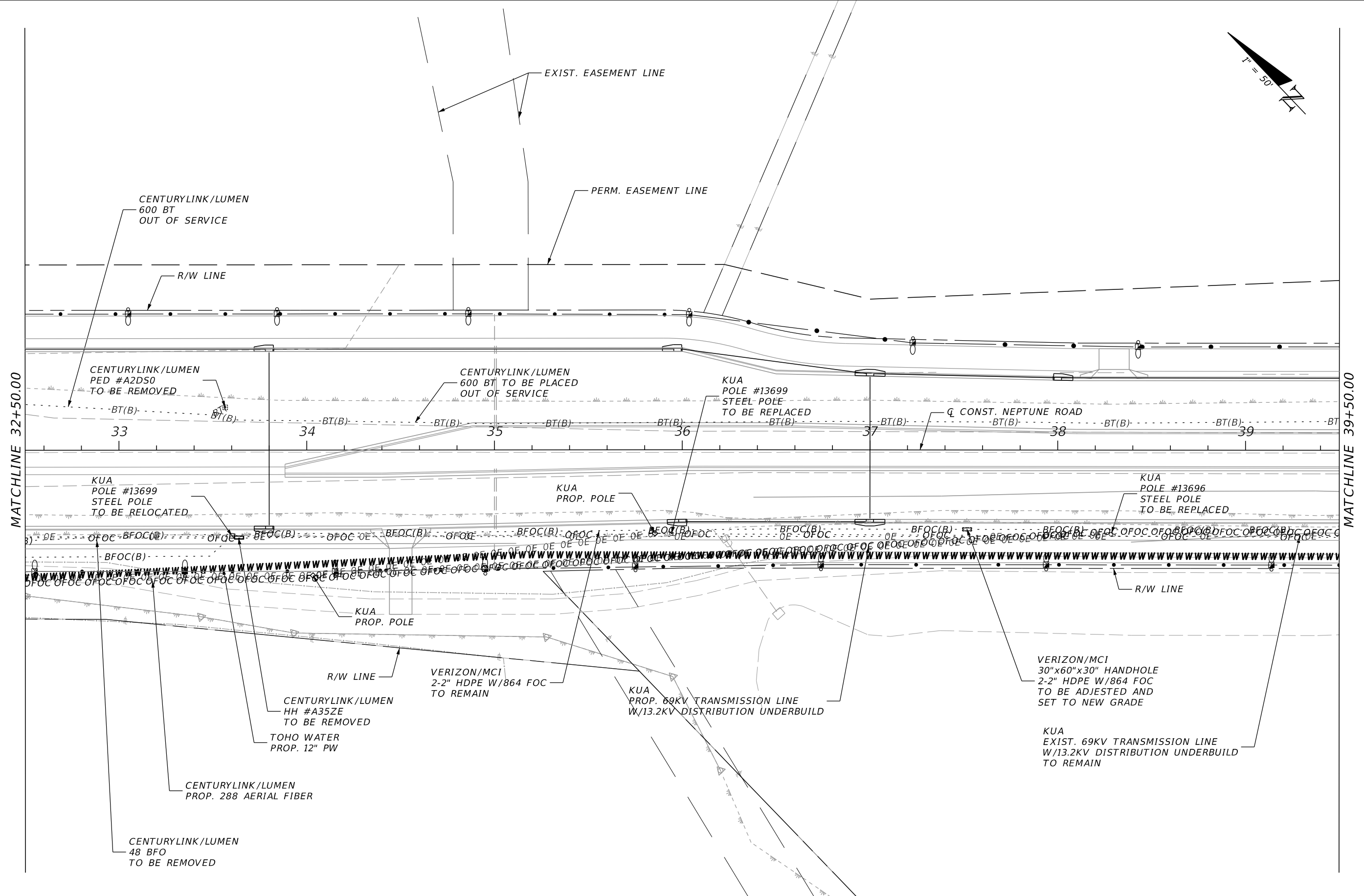
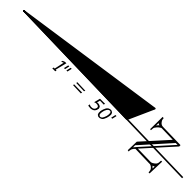


OSCEOLA COUNTY TRANSIT
 AND TRANSPORTATION
 1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE: (407) 742-0662 FAX: (407) 742-0600

**UTILITY ADJUSTMENT
 PLAN (5)**

SHEET NO.
240

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

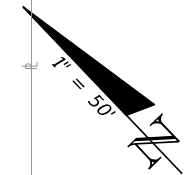
DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

 OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
 1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE:(407) 742-0662 FAX:(407) 742-0600

UTILITY ADJUSTMENT
PLAN (6)

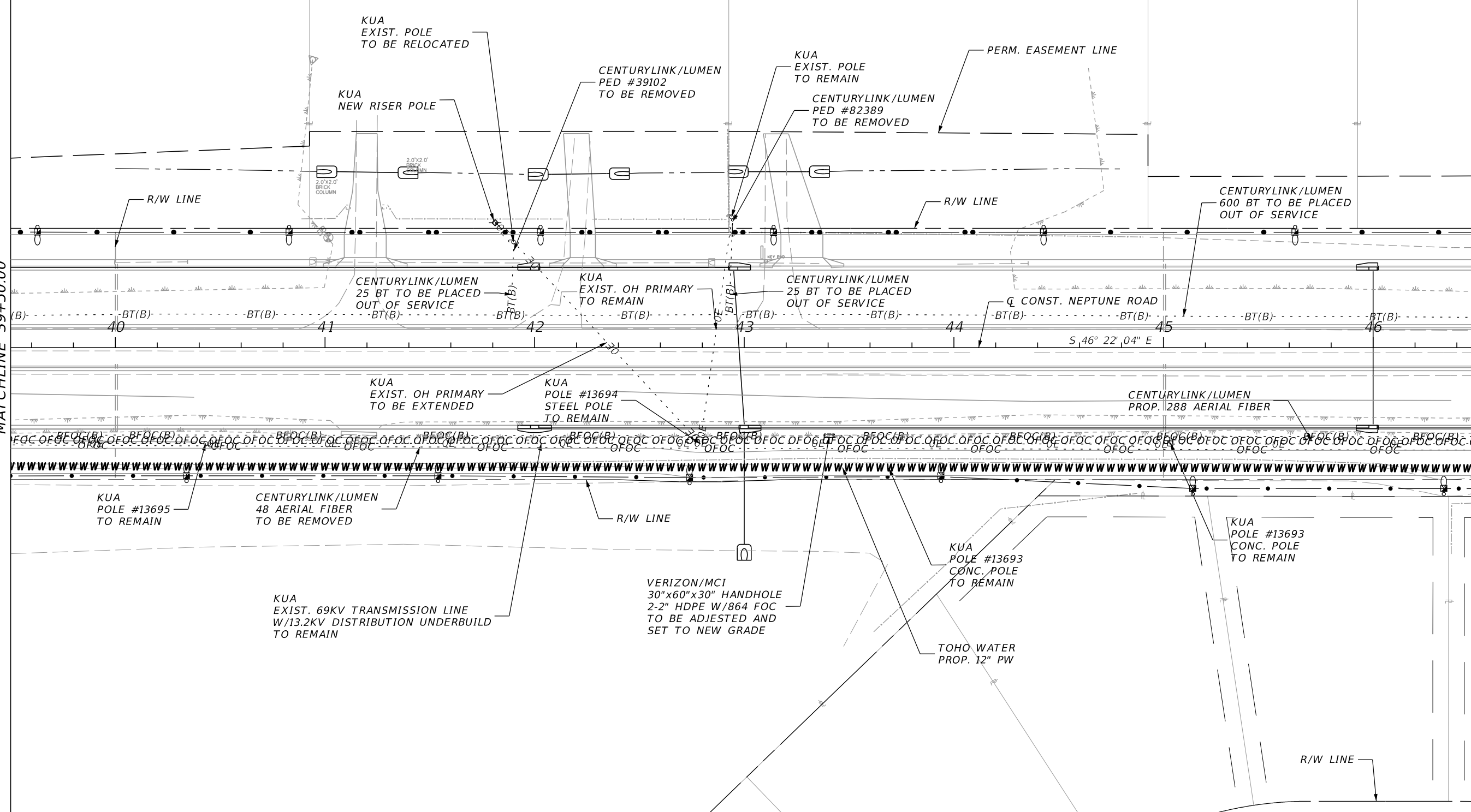
SHEET NO.
241

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MATCHLINE 39+50.00

MATCHLINE 46+50.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801



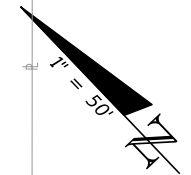
OSCEOLA COUNTY TRANSIT
 AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE:(407) 742-0662 FAX:(407) 742-0600

UTILITY ADJUSTMENT
PLAN (7)

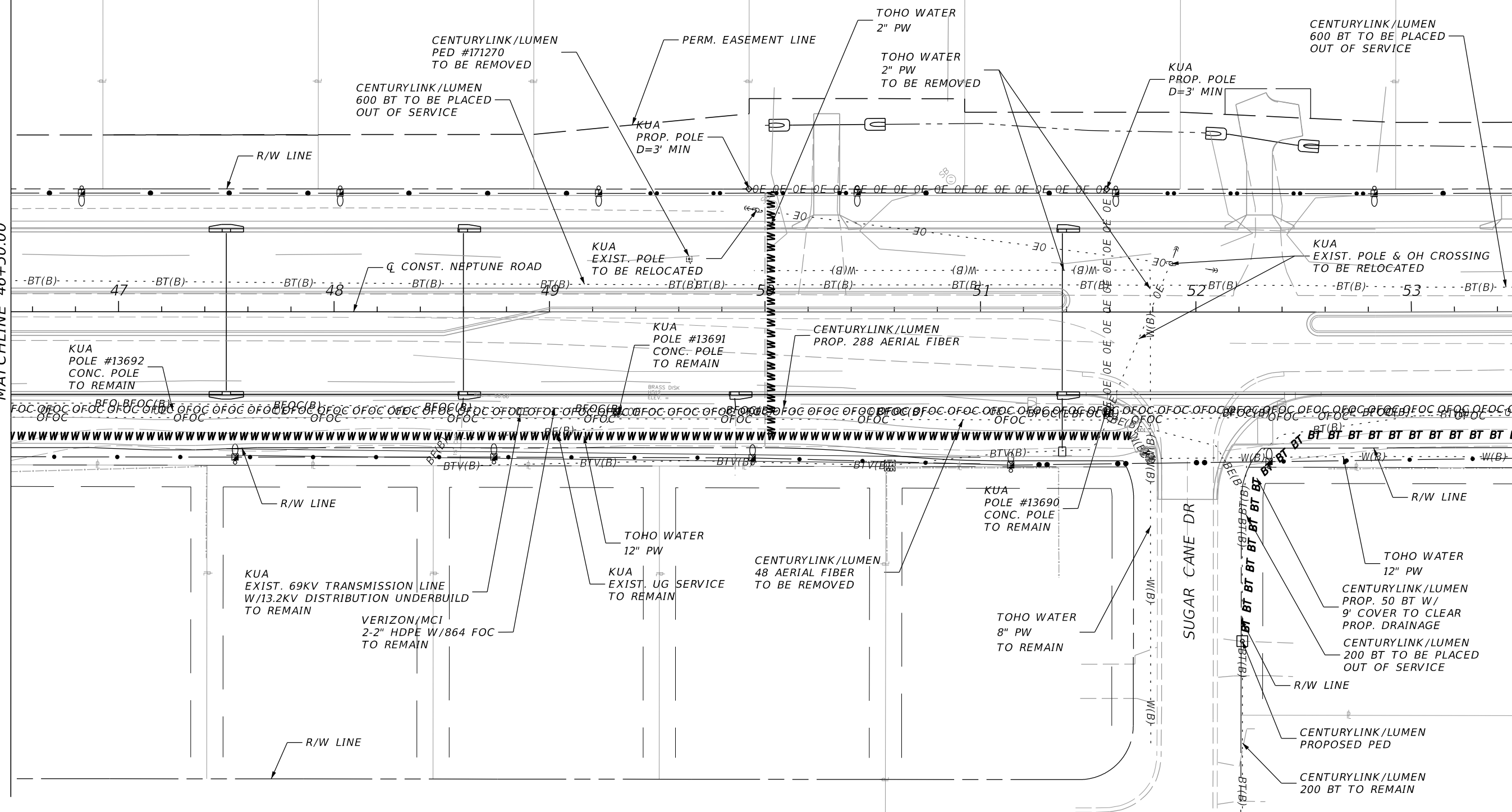
SHEET NO.
242

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MATCHLINE 46+50.00

MATCHLINE 53+50.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

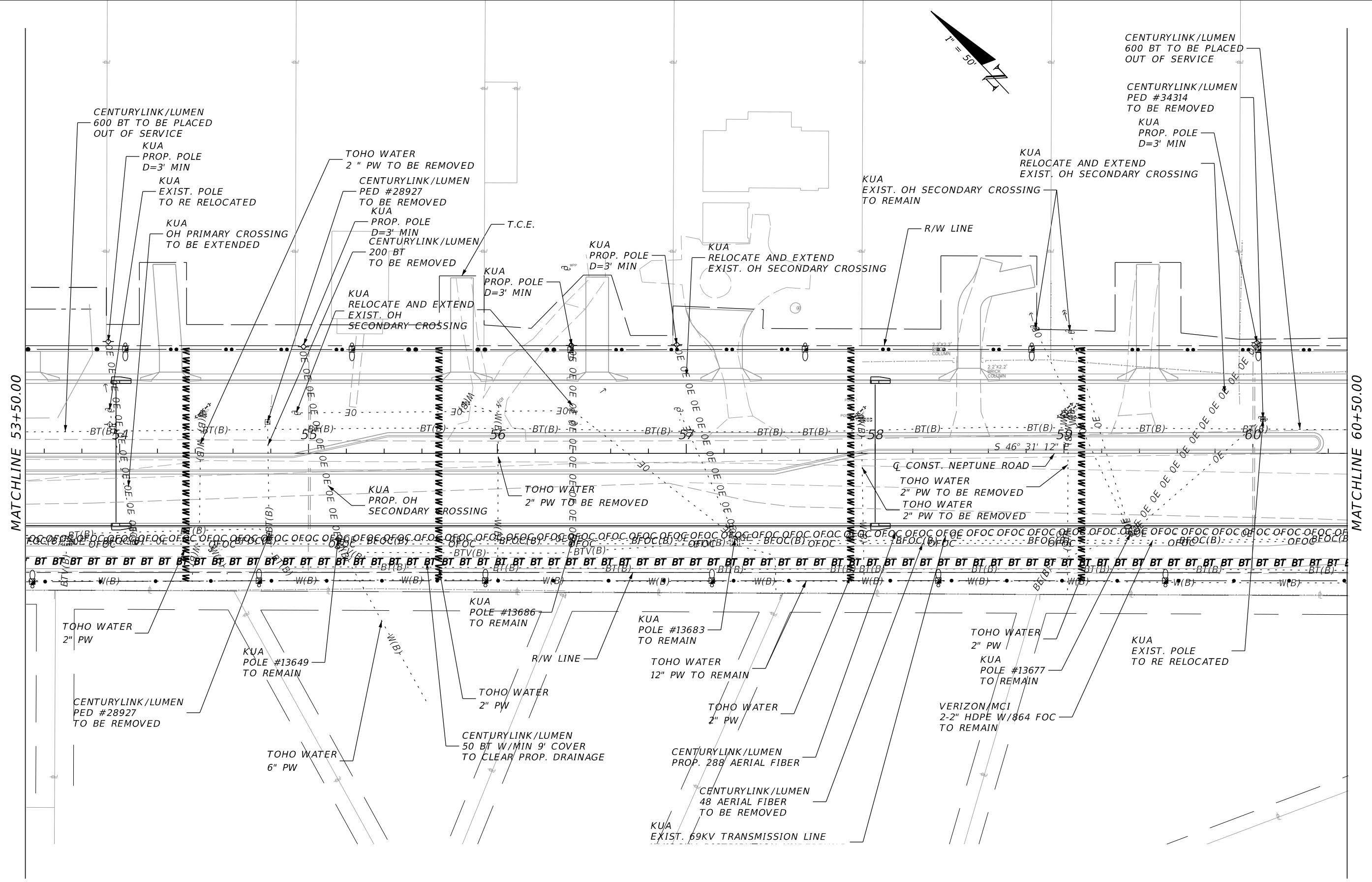
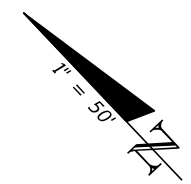


OSCEOLA COUNTY TRANSIT
 AND TRANSPORTATION
 1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE: (407) 742-0662 FAX: (407) 742-0600

UTILITY ADJUSTMENT
PLAN (8)

SHEET NO.
 243

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MATCHLINE 53+50.00

MATCHLINE 60+50.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

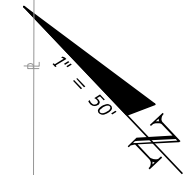


OSCEOLA COUNTY TRANSIT
 AND TRANSPORTATION
 1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE:(407) 742-0662 FAX:(407) 742-0600

UTILITY ADJUSTMENT
PLAN (9)

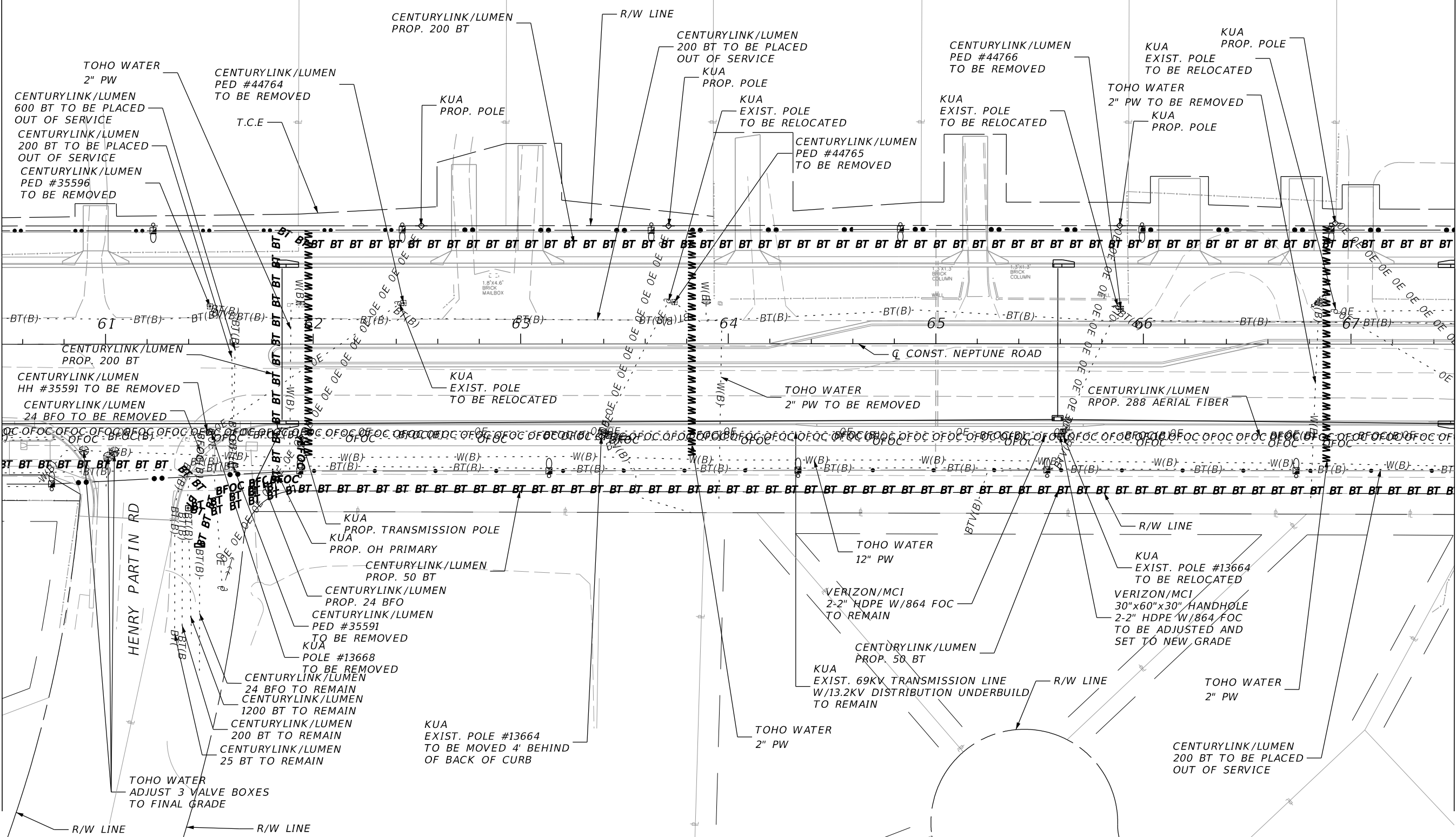
SHEET NO.
244

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE 60+50.00

MATCHLINE 67+50.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

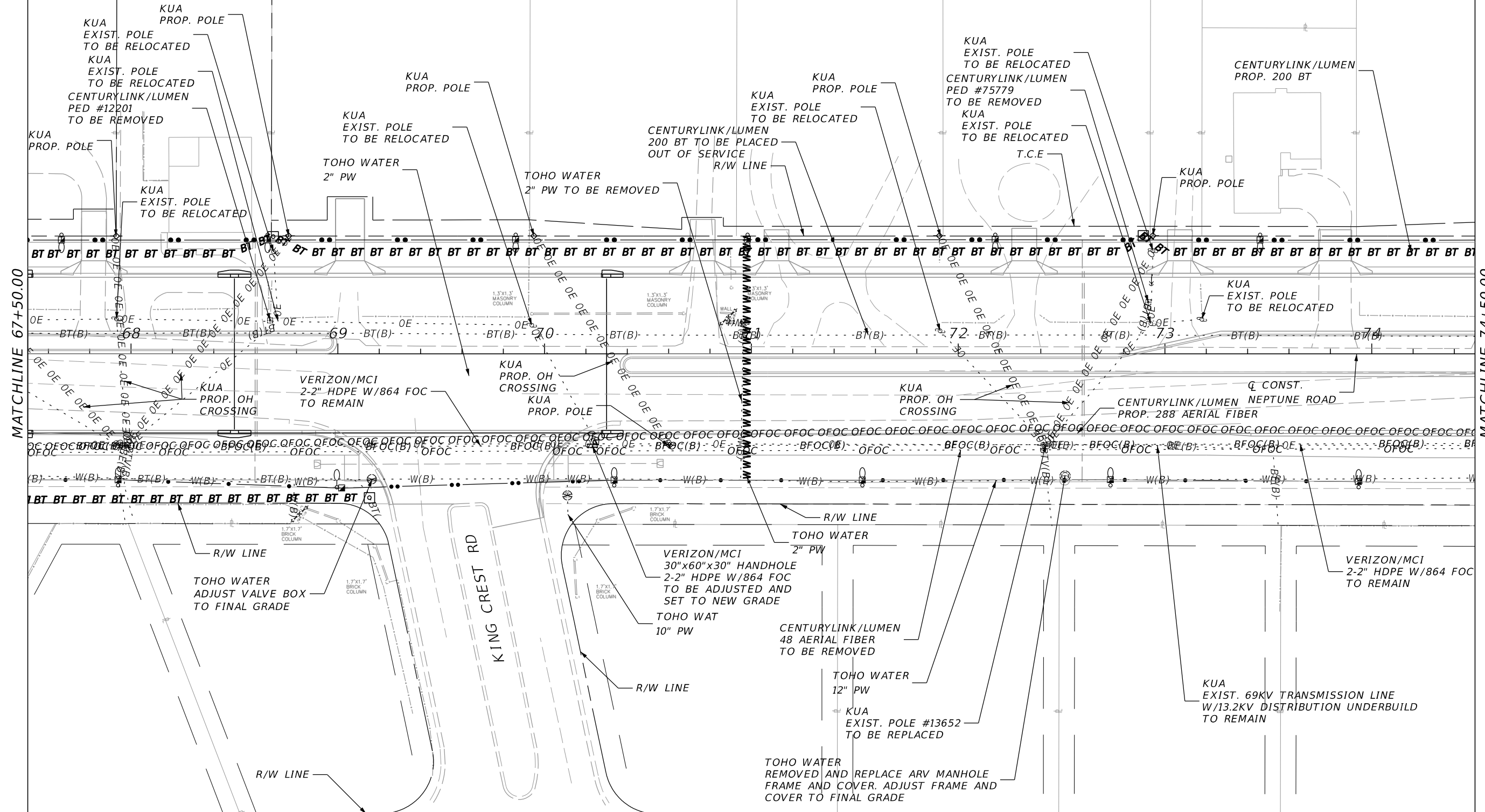
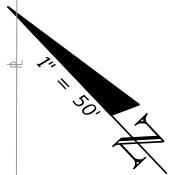
OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE: (407) 742-0662 FAX: (407) 742-0600

UTILITY ADJUSTMENT
PLAN (10)

SHEET
NO.
245

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MATCHLINE 67+50.00

MATCHLINE 74+50.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 P.E. LICENSE NUMBER 72502
 GAI CONSULTANTS, INC.
 618 E. SOUTH STREET - SUITE 700
 ORLANDO, FL 32801

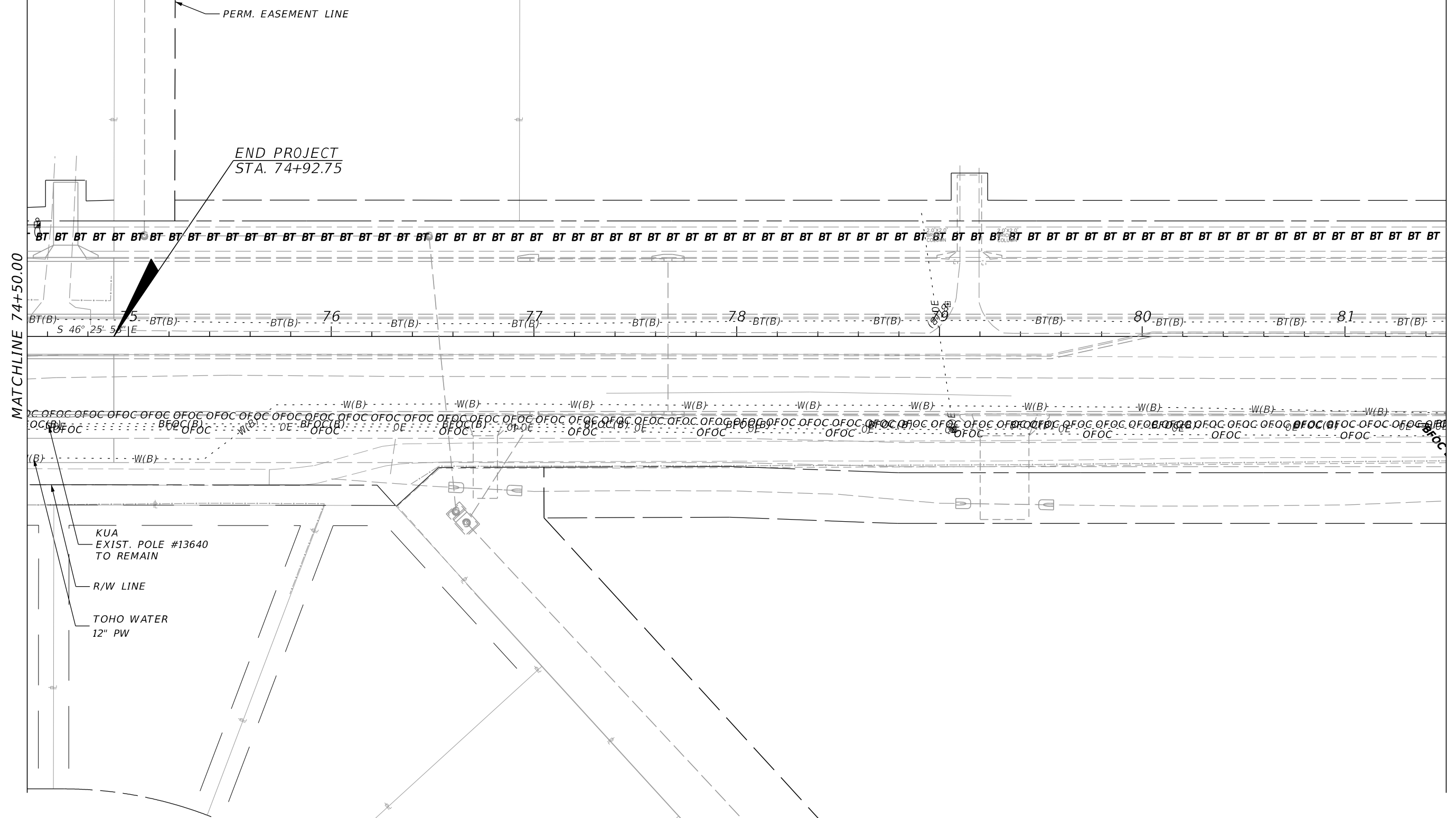
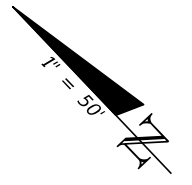
OSCEOLA COUNTY TRANSIT AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
 KISSIMMEE, FLORIDA 34741-5488
 PHONE: (407) 742-0662 FAX: (407) 742-0600

UTILITY ADJUSTMENT
PLAN (11)

SHEET NO.
246

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MATCHLINE 74+50.00

PERM. EASEMENT LINE

END PROJECT
STA. 74+92.75

KUA
EXIST. POLE #13640
TO REMAIN


R/W LINE

TOHO WATER
12" PW

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



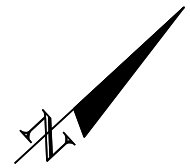
OSCEOLA COUNTY TRANSIT
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1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE: (407) 742-0662 FAX: (407) 742-0600

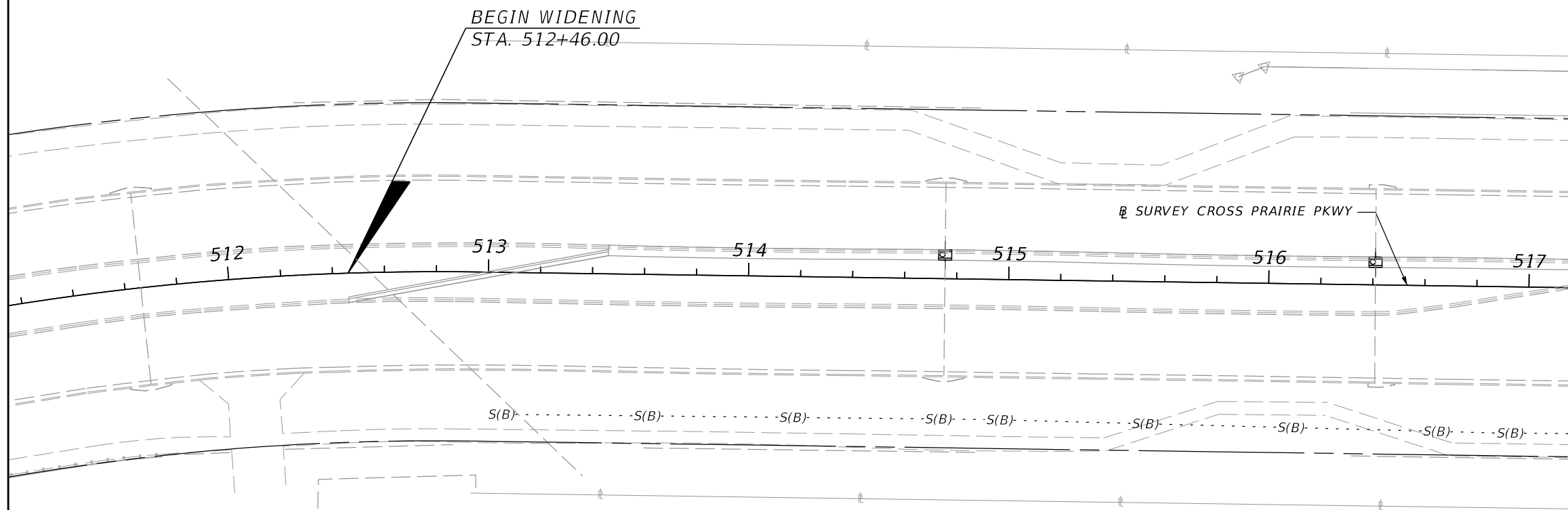
UTILITY ADJUSTMENT
PLAN (12)

SHEET
NO.
247

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BEGIN WIDENING
STA. 512+46.00



MATCHLINE 517+20.00
SEE UTILITY ADJUSTMENT PLAN (5)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

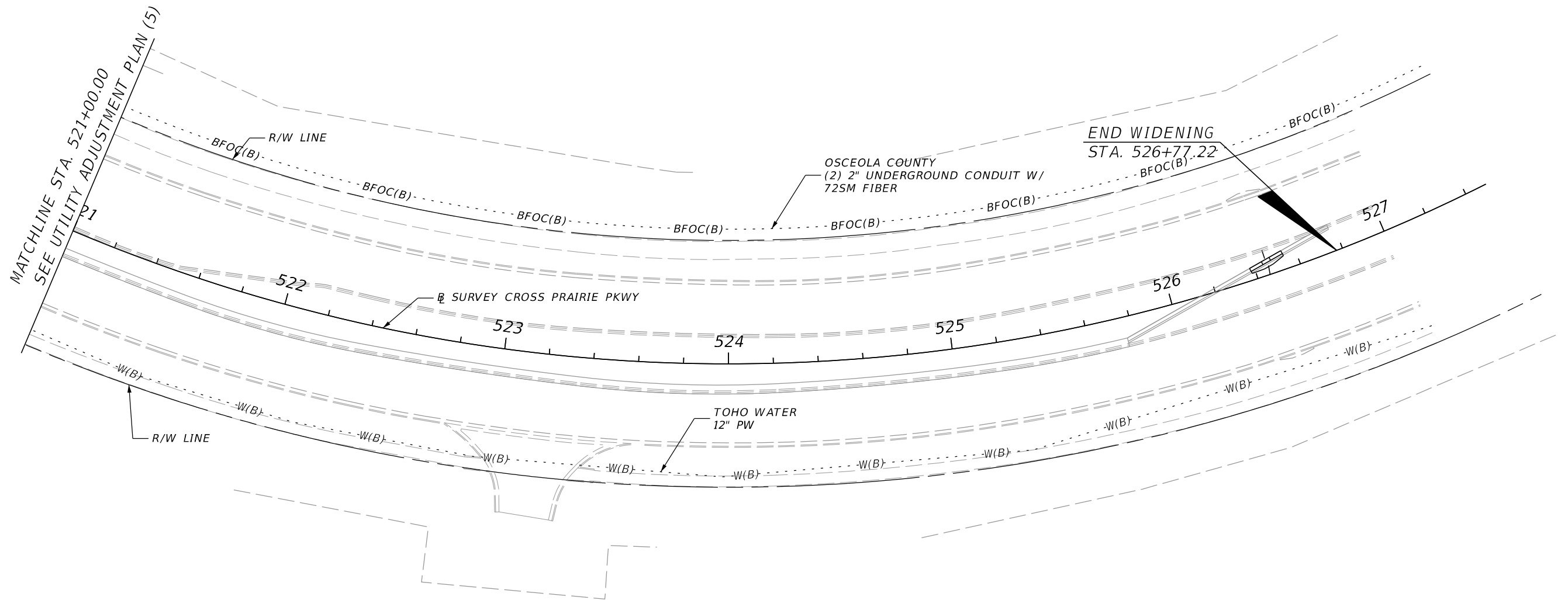
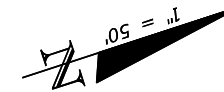
DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801


 OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE: (407) 742-0662 FAX: (407) 742-0600

UTILITY ADJUSTMENT PLAN (13)
CROSS PRAIRIE PKWY

SHEET NO.
248

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



REVISIONS				DONGHANG ZHAO, P.E. P.E. LICENSE NUMBER 72502 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801	 OSCEOLA COUNTY TRANSIT AND TRANSPORTATION 1 COURTHOUSE SQUARE, SUITE 3100 KISSIMMEE, FLORIDA 34741-5488 PHONE:(407) 742-0662 FAX:(407) 742-0600	UTILITY ADJUSTMENT PLAN (14) CROSS PRAIRIE PKWY	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				249

PAY ITEM NOTES


1. PAY ITEM NO. 102-1 INCLUDES THE COST OF DESIGN AND MATERIALS NEEDED FOR THE TEMPORARY CONCRETE STRAIN POLES. CONTRACTOR SHALL PROVIDE DESIGN CALCULATIONS AND SHOP DRAWINGS FOR TEMPORARY CONCRETE STRAIN POLES REQUIRED AT LOCATIONS IDENTIFIED IN THE PLANS.
2. PAY ITEM NO. 102-1 INCLUDES THE COST OF TEMPORARY DRAINAGE STRUCTURES.
3. PAY ITEM NO. 110-1-1 INCLUDE 10' EXTENTION FOR PROPOSED DRAINAGE STRUCTURES ALONG CROSS PRAIRIE PARKWAY. SEE DRAINAGE STRUCTURES FOR DETAILS.
4. PAY ITEM NO. 110-1-1 INCLUDES ALL COST FOR THE REMOVAL OF ALL BUILDINGS/STRUCTURES ON PARCEL 101, 102, 103, 104, 105, 106, 107, AND 136. THIS ALSO INCLUDES THE COSTS FORASBESTOS SURVEYS AND ABATEMENT PRIOIR TO THE DEMOLITION.
5. PAY ITEM NO. 110-1-1 INCLUDES ALL COST FOR THE REMOVAL OF EXIST. BOARDWALK.
6. PAY ITEM NO. 285-710 INCLUDES BASE GROUP 10, TYPE B-12.5 ONLY.
7. PAY ITEM NO. 520-1 INCLUDE COST OF ASPHALT BASE CURB PAD AND ADDITIONAL CURB THICKNESS.

INDEX OF SUMMARY OF QUANTITIES

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SQ-1	PAY ITEMS NOTES
SQ-1	SUMMARY OF LUMP SUM ITEMS
SQ-2 - SQ-3	SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS
SQ-4	SUMMARY OF SPECIAL DETOURS
SQ-5	SUMMARY OF PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICES
SQ-5	SUMMARY OF TEMPORARY SIGNALIZATION & DETECTION
SQ-6 - SQ-8	SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES
SQ-9	SUMMARY OF LITTER REMOVAL AND MOWING
SQ-10 - SQ-11	SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS
SQ-12	SUMMARY OF MAILBOXES
SQ-12	SUMMARY OF EARTHWORK, SUMMARY OF GEOTECHNICAL ITEMS
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SQ-18	SUMMARY OF WALLS, SUMMARY OF SIDE DRAIN & MITERED END SECTIONS
SQ-18	SUMMARY OF RAILLING
SQ-19 - SQ-21	SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS
SQ-21	SUMMARY OF PERMANENT BARRIERS
SQ-22 - SQ-23	SUMMARY OF SIDEWALK & DETECTABLE WARNINGS
SQ-24	SUMMARY OF DITCH PAVEMENT
SQ-24	SUMMARY OF GUARDRAIL
SQ-25 - SQ-27	SUMMARY OF PERFORMANCE TURF & SOD
SQ-28	SUMMARY OF LUMP SUM OF IRRIGATION

SUMMARY OF LUMP SUM ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
101-1	MOBILIZATION	1			


REVISIONS				DONGHANG ZHAO, P.E. P.E. LICENSE NUMBER 72502 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801	 OSCEOLA COUNTY TRANSIT AND TRANSPORTATION 1 COURTHOUSE SQUARE, SUITE 3100 KISSIMMEE, FLORIDA 34741-5488 PHONE:(407) 742-0662 FAX:(407) 742-0600	SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				SQ-1

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE 1			PHASE 2			TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION	QUANTITY	TOTAL	DURATION	QUANTITY	TOTAL	P	F		
			DAYS	P	P	DAYS	P	P				
102-1	MAINTENANCE OF TRAFFIC	LS								718 DAYS		
102-14	TRAFFIC CONTROL OFFICER	HR		40	40		40	40	80			
102-60	WORK ZONE SIGN	ED	84	33	2765	278	38	10549	13314			
102-71-13	TEMPORARY BARRIER , F&I, LOW PROFILE	LF					6562	6562	6562			
102-71-23	TEMPORARY BARRIER, RELOCATE, LOW PROFILE CONCRETE	LF										
102-74-1	CHANNELIZING DEVICE- TYPES I, II, DI, VP, DRUM, OR LCD	ED	84	106	8883	278	415	115204	124087			
102-76	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED										
102-78	TEMPORARY RETROREFLECTIVE PAVEMENT MARKER	EA					757	757	757			
102-99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	84	2	168				168			
102-115	CHANNELIZING DEVICE- TYPE III, 6'	ED				278	8	2221	2221			
710-11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM					3.009	3.009	3.009			
710-11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 12"	LF										
710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 24"	LF					63	63.000	63			
710-11-141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 6", 2-4	GM					0.057	0.057	0.057			
710-11-170	PAINTED PAVEMENT MARKINGS, ARROWS	EA					14	14	14			
710-11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM					2.727	2.727	2.727			
710-11-224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 18"	LF					44	44	44			

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE 3 STEP 1			PHASE 3 STEP 2			TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION	QUANTITY	TOTAL	DURATION	QUANTITY	TOTAL	P	F		
			DAYS	P	P	DAYS	P	P				
102-1	MAINTENANCE OF TRAFFIC	LS										
102-14	TRAFFIC CONTROL OFFICER	HR		40	40			40	80			
102-60	WORK ZONE SIGN	ED	248	38	9409	15	40	600	10009			
102-71-13	TEMPORARY BARRIER , F&I, LOW PROFILE	LF		1625	1625				1625			
102-71-23	TEMPORARY BARRIER, RELOCATE, LOW PROFILE CONCRETE	LF		6562	6562		2302	2302	8864			
102-74-1	CHANNELIZING DEVICE- TYPES I, II, DI, VP, DRUM, OR LCD	ED	248	244	60414	15	138	2070	62484			
102-76	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED	248	1	248	15	1	15	263			
102-78	TEMPORARY RETROREFLECTIVE PAVEMENT MARKER	EA		1130	1130		539	539	1669			
102-99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED										
102-115	CHANNELIZING DEVICE- TYPE III, 6'	ED				15						
710-11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM		2.895	2.895		0.854	0.854	3.749			
710-11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 12"	LF		383	383				383			
710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 24"	LF		400	400				400			
710-11-141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 6", 2-4	GM		0.063	0.063				0.063			
710-11-170	PAINTED PAVEMENT MARKINGS, ARROWS	EA		16	16				16	LT & RT Turn Arrows per Index 711-001		
710-11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM		2.823	2.823		0.948	0.948	3.772			
710-11-224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 18"	LF		175	175		37	37	212			

<p align="center">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>DONGHANG ZHAO, P.E. P.E. LICENSE NUMBER 72502 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801</p>			<p align="center">OSCEOLA COUNTY TRANSIT AND TRANSPORTATION</p> <p>1 COURTHOUSE SQUARE, SUITE 3100 KISSIMMEE, FLORIDA 34741-5488 PHONE:(407) 742-0662 FAX:(407) 742-0600</p>		<p>SUMMARY OF QUANTITIES</p>		<p align="center">SHEET NO. SQ-2</p>
DATE	DESCRIPTION	DATE	DESCRIPTION																

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SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE 3 STEP 3			PHASE 4			TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION	QUANTITY	TOTAL	DURATION	QUANTITY	TOTAL	P	F		
			DAYS	P	P	DAYS	P	P				
102-1	MAINTENANCE OF TRAFFIC	LS										
102-14	TRAFFIC CONTROL OFFICER	HR										
102-60	WORK ZONE SIGN	ED	15	40	600	59	32	1888	2488			
102-71-13	TEMPORARY BARRIER , F&I, LOW PROFILE	LF										
102-71-23	TEMPORARY BARRIER, RELOCATE, LOW PROFILE CONCRETE	LF		1366	1366				1366			
102-74-1	CHANNELIZING DEVICE- TYPES I, II, DI, VP, DRUM, OR LCD	ED	15	147	2205	59	461	27199	29404			
102-76	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED	15	1	15	59	2	118	133			
102-78	TEMPORARY RETROREFLECTIVE PAVEMENT MARKER	EA		540	540		778	778	1317			
102-99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED										
102-115	CHANNELIZING DEVICE- TYPE III, 6'	ED										
710-11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM		0.882	0.882		2.993	2.993	3.875			
710-11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 12"	LF					742	742	742			
710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 24"	LF					817	817	817			
710-11-141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 6", 2-4	GM										
710-11-170	PAINTED PAVEMENT MARKINGS, ARROWS	EA					4	4	4	LT & RT Turn Arrows per Index 711-001		
710-11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM		1.011	1.011		2.899	2.899	3.910			
710-11-224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 18"	LF										

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE 5			DETOUR			TOTAL		GRAND TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION	QUANTITY	TOTAL	DURATION	QUANTITY	TOTAL	P	F	P	F		
			DAYS	P	P	DAYS	P	P						
102-1	MAINTENANCE OF TRAFFIC	LS									1			
102-14	TRAFFIC CONTROL OFFICER	HR		40	40				40		200			
102-60	WORK ZONE SIGN	ED	20	32	640	6	43	258	898		26709			
102-71-13	TEMPORARY BARRIER , F&I, LOW PROFILE	LF									8187			
102-71-23	TEMPORARY BARRIER, RELOCATE, LOW PROFILE CONCRETE	LF									10230			
102-74-1	CHANNELIZING DEVICE- TYPES I, II, DI, VP, DRUM, OR LCD	ED	20	136	2720	6	12	72	2792		218767			
102-76	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED	20	1	20				20		416			
102-78	TEMPORARY RETROREFLECTIVE PAVEMENT MARKER	EA									3743			
102-99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED				48	3	144	144		312			
102-115	CHANNELIZING DEVICE- TYPE III, 6'	ED				6	3	18	18		2239			
710-11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM									10.633			
710-11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 12"	LF									1125			
710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 24"	LF									1280			
710-11-141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 6", 2-4	GM									0.120			
710-11-170	PAINTED PAVEMENT MARKINGS, ARROWS	EA									34	LT & RT Turn Arrows per Index 711-001		
710-11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM									10.409			
710-11-224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 18"	LF									256			

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

SUMMARY OF QUANTITIES


SHEET NO.

SQ-3

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SUMMARY OF SPECIAL DETOURS


TTC PHASE	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	UNITS	SPECIAL DETOUR TEMPORARY PAVEMENT			SPECIAL DETOUR TEMPORARY EARTHWORK/BASE			PEDESTRIAN SPECIAL DETOUR			DESIGN NOTES	CONSTRUCTION REMARKS
								102 2 200			102 2 300			102 4				
	STA.	TO STA.						P	SY	F	P	CY	F	P	SY	F		
PHASE 1	8+78.00	TO 74+92.75	LT/RT					5099				6641				See Temp. Drainage Sheet		
PHASE 1	76+20.00	TO 78+00.00	RT					233				450				Temp. Cross Over		
PHASE 1	17+65.00	TO 18+85.00	RT											137				
PHASE 2	5+69.00	TO 23+00.00	LT					2006										
PHASE 2	29+00.00	TO 32+00.00	LT											101		At Intersection		
PHASE 3 STEP 1	19+00.00	TO 21+50.00	LT/RT					532										
PHASE 3 STEP 1	29+10.00	TO 29+10.00	RT											26				
PHASE 3 STEP 2	18+40.00	TO 23+00.00	LT					912										
		TOTAL						7870				7091		263				

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DATE	DESCRIPTION	DATE	DESCRIPTION																

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SUMMARY OF PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICES										
CONST. PHASE	LOCATION STA. TO STA.			SIDE	LENGTH	DAYS	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
							0102	74 8		
							FD			
							P	F		
PHASE II	0+00.00	TO	0+00.00	LT	6	278	1666			
	1+12.00	TO	1+12.00	LT	6	278	1666			
	519+63.09	TO	520+35.65	LT	74	278	20542		CROSS PRAIRIE PKWY	
	519+60.96	TO	520+34.59	LT	75	278	20820		CROSS PRAIRIE PKWY	
	519+45.47	TO	520+47.00	RT	108	278	29981		CROSS PRAIRIE PKWY	
	519+46.68	TO	520+34.97	RT	93	278	25817		CROSS PRAIRIE PKWY	
PHASE III STEP 1	0+00.00	TO	0+00.00	LT	6	248	1486			
	1+12.00	TO	1+12.00	LT	6	248	1486			
	4+95.50	TO	4+95.50	RT	42	248	10399			
	5+04.54	TO	18+65.30	LT/RT	1246	248	308510			
	19+09.01	TO	19+09.01	RT	54	248	13370			
	19+18.01	TO	19+87.34	LT/RT	154	248	38130			
	30+28.59	TO	30+51.45	LT	23	248	5695			
	29+04.52	TO	29+04.14	RT	92	248	22779			
	29+09.05	TO	29+11.61	RT	45	248	11142			
	30+28.09	TO	30+34.09	RT	6	248	1486			
	PHASE III STEP 2	18+87.98	TO	19+87.27	RT	102	15	1530		
19+00		TO	19+06	RT	12	15	180			
30+28.59		TO	30+51.45	LT	23	15	345			
29+04.52		TO	29+04.14	RT	92	15	1380			
29+09.05		TO	29+11.61	RT	45	15	675			
30+28.09		TO	30+34.09	RT	6	15	90			
0+00.00		TO	0+00.00	LT	6	15	90			
PHASE III STEP 3	1+12.00	TO	1+12.00	LT	6	15	90			
	0+00.00	TO	0+00.00	RT	6	15	90			
	4+83.52	TO	4+83.52	RT	6	15	90			
	30+28.59	TO	30+51.45	LT	23	15	345			
	29+04.52	TO	29+04.14	RT	92	15	1380			
PHASE IV	29+09.05	TO	29+11.61	RT	45	15	675			
	30+28.09	TO	30+34.09	RT	6	15	90			
	0+00.00	TO	0+00.00	LT	6	59	354			
	1+12.00	TO	1+12.00	LT	6	59	354			
SUB-TOTAL:							522732			
TOTAL:							522732			

SUMMARY OF TEMPORARY SIGNALIZATION & DETECTION															
PHASE/STEP	DURATION DAYS	102-104						102-107-1						DESIGN NOTES	CONSTRUCTION REMARKS
		TEMPORARY SIGNALS & MAINTENANCE OF INTERSECTION - EACH DAY						TEMPORARY TRAFFIC DETECTION & MAINTENANCE OF INTERSECTION - EACH DAY							
		EXISTING			TEMPORARY/NEW			EXISTING			TEMPORARY/NEW				
		#	P	F	#	P	F	#	P	F	#	P	F		
1	84	1	84				1	84							
2	248				1	248				1	248				
3	278				1	278				1	278				
4	59				1	59				1	59				
SUB-TOTAL		84				584				84					
TOTAL						668					668				

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REVISIONS																									
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SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION STA. TO STA.	SIDE	SEDIMENT BARRIER		FLOATING TURBIDITY BARRIER		STAKED TURBIDITY BARRIER		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
		0104 10 3		0104 11		0104 12		0104 18			
		LF		LF		LF		EA			
		P	F	P	F	P	F	P	F		
3+40.28 TO 9+57.15	RT	622.5									
3+99.93 TO 19+85.18	LT	2123.8									
9+78.52 TO 10+73.22	RT	114.3									
10+88.12 TO 13+20.64	RT	268.6									
13+34.63 TO 14+39.27	RT	149.4									
14+57.19 TO 14+74.27	RT	21.8									
14+84.75 TO 15+07.97	RT	32.6									
15+20.51 TO 15+88.80	RT	112.1									
16+31.76 TO 17+70.62	RT	188.0									
17+36.36 TO 17+36.46	LT	14.6									
17+36.37 TO 17+36.46	LT	12.6									
36+09.94 TO 51+79.32	RT	1727.2									
40+92.58 TO 40+92.58	LT	6.9									
40+94.58 TO 41+13.20	LT	18.6									
40+94.58 TO 40+94.58	LT	6.3									
41+25.20 TO 42+14.36	LT	89.2									
42+26.36 TO 43+10.29	LT	83.9									
43+20.27 TO 44+68.65	LT	148.5									
50+04.03 TO 50+22.62	LT	18.6									
50+34.62 TO 50+84.81	LT	50.5									
52+05.00 TO 52+17.75	LT	15.7									
52+14.69 TO 60+86.27	RT	890.6									
52+47.69 TO 52+86.44	LT	45.0									
53+83.54 TO 54+16.56	LT	77.8									
54+30.52 TO 56+45.57	LT	255.9									
56+60.49 TO 56+98.78	LT	72.2									
57+36.04 TO 58+55.14	LT	151.7									
58+60.85 TO 59+33.40	LT	140.1									
58+67.42 TO 58+82.49	LT	15.1									
59+55.36 TO 60+88.37	LT	169.1									
61+02.14 TO 62+65.76	LT	183.4									
61+36.70 TO 69+25.12	RT	799.2									
62+78.31 TO 62+98.35	LT	22.0									
63+11.73 TO 64+02.44	LT	140.5									
64+16.33 TO 65+11.92	LT	146.6									
65+25.85 TO 66+06.38	LT	113.8									
66+28.29 TO 66+69.26	LT	61.9									
66+83.18 TO 66+97.77	LT	33.9									
67+11.70 TO 67+75.22	LT	75.5									
67+88.99 TO 68+97.91	LT	124.1									
69+13.81 TO 70+69.60	LT	167.3									
70+06.10 TO 74+92.75	RT	500.7									
70+83.30 TO 71+05.53	LT	27.1									
71+18.66 TO 72+25.51	LT	107.8									
72+38.44 TO 73+00.68	LT	63.8									
73+13.78 TO 73+74.36	LT	61.1									
SUB-TOTAL:		10271.9									
TOTAL:		10380		1253		7545		71			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

SUMMARY OF QUANTITIES

SHEET NO.
SQ-6


THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION	SIDE	SEDIMENT BARRIER		FLOATING TURBIDITY BARRIER		STAKED TURBIDITY BARRIER		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
		0104 10 3		0104 11		0104 12		0104 18			
		LF		LF		LF		EA			
STA. TO STA.		P	F	P	F	P	F	P	F		
73+90.31 TO 74+62.08	LT	82.3									
74+76.00 TO 74+92.75	LT	25.9									
17+70.44 TO 18+19.89	RT			116.2							
17+83.88 TO 18+39.14	RT			134.9							
18+15.15 TO 22+73.59	LT			505.7							
18+38.99 TO 22+68.05	LT			455.2							
19+40.99 TO 19+77.65	LT			40.7							
18+00.55 TO 29+30.33	RT					1182.4					
19+27.92 TO 19+62.72	LT					105.2					
19+84.43 TO 19+85.18	LT					144.0					
19+86.76 TO 29+14.29	LT					2765.8					
28+86.07 TO 28+90.09	RT					10.7					
30+06.62 TO 30+31.14	RT					27.9					
30+21.78 TO 40+89.04	LT					1126.5					
30+35.97 TO 36+09.82	RT					1155.6					
36+93.31 TO 37+68.05	RT					248.0					
44+68.65 TO 50+04.03	LT					557.6					
50+84.79 TO 52+04.62	LT					124.4					
52+86.39 TO 53+83.54	LT					97.2					
3+90.05 TO 4+02.98	LT							1			
5+67.22 TO 5+87.34	RT							1			
5+67.33 TO 5+87.23	LT							1			
6+46.98 TO 6+60.06	RT							1			
7+97.02 TO 8+09.95	LT							1			
11+90.00 TO 12+03.00	LT							1			
11+90.00 TO 12+03.00	RT							1			
12+95.84 TO 13+04.49	LT							1			
14+90.00 TO 15+03.00	RT							1			
14+90.00 TO 15+03.00	LT							1			
17+65.00 TO 17+78.00	RT							1			
17+65.00 TO 17+78.00	LT							1			
20+90.75 TO 21+03.75	RT							1			
21+69.00 TO 21+82.00	LT							1			
22+90.00 TO 23+10.00	RT							1			
22+90.00 TO 23+10.00	LT							1			
23+77.00 TO 23+90.00	RT							1			
24+68.29 TO 24+81.29	RT							1			
26+23.50 TO 26+36.50	RT							1			
26+90.75 TO 27+03.75	LT							1			
27+00.00 TO 27+13.00	RT							1			
28+09.74 TO 28+29.74	RT							1			
28+09.74 TO 28+29.74	LT							1			
30+76.00 TO 30+89.00	RT							1			
30+76.00 TO 30+89.00	LT							1			
33+70.00 TO 33+83.00	LT							1			
33+70.00 TO 33+83.00	RT							1			
35+90.72 TO 36+03.72	RT							1			
SUB-TOTAL:		108.2		1252.8		7545.3		28.0			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

SUMMARY OF QUANTITIES

SHEET NO.
SQ-7

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF LITTER REMOVAL AND MOWING

CONST. PHASE	LOCATION		SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL						MOWING						DESIGN NOTES	CONSTRUCTION REMARKS
						0107 1						0107 2							
	STA. TO STA.	AREA ID				L	W	CYCLES	AREA		AREA ID	L	W	CYCLES	AREA				
									AC/CYCLE	TOTAL (AC)					AC/CYCLE	TOTAL (AC)			
						P	F					P	F						
PHASE 1	0+00.00	80+50.00		84	30				3										
PHASE 2	0+00.00	80+50.00		278	30				9										
PHASE 3	0+00.00	80+50.00		278	30				9										
PHASE 4	0+00.00	80+50.00		59	30				2										
					30														
PHASE 1	0+00.00	80+50.00		84	30							3	11.917	35.751					
PHASE 2	0+00.00	80+50.00		278	30							9	9.407	84.663					
PHASE 3	0+00.00	80+50.00		278	30							9	8.620	77.580					
PHASE 4	0+00.00	80+50.00		59	30							2	11.920	23.840					
						SUB-TOTAL:						SUB-TOTAL:							
						TOTAL:						TOTAL:							
						512.033						221.834							
						512.0						221.8							

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600


SUMMARY OF QUANTITIES

SHEET NO.
SQ-9

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS


PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	UNITS	SECONDARY UNITS (IF LUMP SUM)	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	AREA (AC)						P	F	P	F			
0110 1 1	Clearing & Grubbing	1+98.56	to	3+21.80	LT/RT	157036		AC		0.036		27.1			
		3+75.78	to	6+41.94	RT	157109		AC		0.004					
		5+93.15	to	6+62.22	LT	157187		AC		0.004					
		6+57.35	to	7+19.08	LT	173906		AC		0.004					
		16+40.65	to	16+40.65	RT	239304		AC		11.503					
		18+67.79	to	19+16.74	RT	173915		AC		0.012					
		21+41.57	to	29+01.63	RT	239860		AC		0.199					
		29+08.49	to	29+31.30	RT	239904		AC		0.008					
		30+06.15	to	30+33.02	RT	199337		AC		0.010					
		30+16.25	to	30+28.95	RT	182629		AC		0.001					
		30+35.55	to	46+18.77	RT	199347		AC		0.303					
		36+97.55	to	37+84.21	RT	246725		AC		0.079					
		52+29.60	to	52+29.60	LT	246167		AC		14.102					
		52+84.17	to	60+88.53	RT	180206		AC		0.117					
		58+55.98	to	58+82.42	LT	158213		AC		0.001					
		62+75.42	to	63+00.94	LT	181299		AC		0.029					
		512+46.00	to	518+50.00	LT/RT	156670		AC		0.073				CROSS PRAIRIE PKWY	
		512+46.00	to	518+66.86	LT/RT	237193		AC		0.226				CROSS PRAIRIE PKWY	
		514+65.43	to	514+85.46	LT	236836		AC		0.005				CROSS PRAIRIE PKWY	
		516+30.85	to	516+50.91	LT	236829		AC		0.005				CROSS PRAIRIE PKWY	
		519+97.54	to	526+77.22	LT/RT	237164		AC		0.303				CROSS PRAIRIE PKWY	
		520+50.00	to	522+17.92	LT	156657		AC		0.033				CROSS PRAIRIE PKWY	
		520+74.86	to	520+94.63	RT	236822		AC		0.005				CROSS PRAIRIE PKWY	
		526+35.70	to	526+55.82	LT/RT	236816		AC		0.005				CROSS PRAIRIE PKWY	
0110 4 10	Removal of Existing Concrete	1+98.52	to	3+21.80	LT/RT	76865		SY		45.800		9182			
		3+40.28	to	8+97.34	LT	141497		SY		806.700					
		3+40.28	to	8+73.12	RT	76877		SY		103.400					
		3+40.28	to	8+97.97	LT	76882		SY		93.400					
		3+52.66	to	4+22.88	RT	69973		SY		10.400					
		13+14.84	to	13+33.32	RT	141944		SY		68.100					
		13+66.57	to	13+66.57	RT	142075		SY		1418.600					
		14+40.14	to	14+68.11	RT	70001		SY		71.700					
		14+92.39	to	15+25.86	RT	70012		SY		80.400					
		16+22.75	to	16+34.67	RT	70044		SY		1.900					
		20+34.51	to	20+48.11	LT	215595		SY		1.000					
		20+47.58	to	20+95.68	LT/RT	215640		SY		114.700					
		20+48.82	to	20+94.42	LT	215722		SY		5.900					
		20+94.64	to	21+08.87	LT	215635		SY		1.000					
		21+22.44	to	29+24.07	RT	70752		SY		775.300					
		28+88.24	to	29+33.30	RT	76961		SY		23.100					
		29+00.16	to	29+21.12	LT	247672		SY		33.700					
		29+15.61	to	29+33.57	LT	76858		SY		15.100					
		30+03.42	to	30+55.71	LT	76847		SY		23.700					
		30+04.15	to	30+54.52	RT	76943		SY		22.400					
		30+12.91	to	30+23.22	LT	247684		SY		16.700					
		30+28.91	to	51+82.02	RT	142215		SY		1937.800					
		42+95.52	to	43+36.33	LT	70066		SY		142.800					
		50+15.52	to	50+37.56	LT	70079		SY		133.300					
		51+47.31	to	51+84.11	RT	76791		SY		17.500					
		52+08.16	to	52+40.96	RT	76776		SY		16.800					

<p align="center">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>DONGHANG ZHAO, P.E. P.E. LICENSE NUMBER 72502 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801</p>			<p align="center">OSCEOLA COUNTY TRANSIT AND TRANSPORTATION</p> <p>1 COURTHOUSE SQUARE, SUITE 3100 KISSIMMEE, FLORIDA 34741-5488 PHONE:(407) 742-0662 FAX:(407) 742-0600</p>		<p>SUMMARY OF QUANTITIES</p>		<p align="center">SHEET NO. SQ-10</p>
DATE	DESCRIPTION	DATE	DESCRIPTION																

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS


PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	UNITS	SECONDARY UNITS (IF LUMP SUM)	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	AREA (AC)						P	F	P	F			
0110 4 10	Removal of Existing Concrete (CONT'D)	52+10.22	to 60+96.47	RT	70641					792.800					
		58+39.53	to 58+84.62	LT	70093					162.300					
		59+24.92	to 59+49.80	LT	70108					23.500					
		61+32.89	to 69+24.23	RT	70618					696.900					
		62+62.03	to 63+09.16	LT	70113					194.500					
		65+13.96	to 65+25.77	LT	70128					73.800					
		66+95.98	to 67+13.55	LT	70135					89.400					
		67+72.41	to 67+90.99	LT	70145					83.700					
		67+94.21	to 68+65.96	LT	142293					236.700					
		68+76.43	to 69+29.17	RT	76746					18.000					
		69+97.23	to 70+36.61	RT	76761					15.000					
		69+99.46	to 74+92.75	RT	70603					435.700					
		512+46.00	to 518+64.79	LT/RT	77401			SY		179.300				CROSS PRAIRIE PKWY	
		519+97.45	to 526+77.22	LT/RT	77554			SY		199.100				CROSS PRAIRIE PKWY	

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DATE	DESCRIPTION	DATE	DESCRIPTION													

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF MAILBOXES					
STATION	SIDE	QUANTITY (EA)		DESIGN NOTES	CONSTRUCTION REMARKS
		0110	7 1		
		P	F		
9+45.02	RT	1			
10+60.65	RT	1			
13+02.44	RT	1			
14+26.88	RT	1			
15+01.69	RT	1			
15+99.21	RT	1			
40+98.92	LT	1			
42+02.31	LT	1			
42+94.28	LT	1			
50+10.49	LT	1			
52+11.73	LT	1			
54+40.91	LT	1			
55+63.82	LT	1			
56+70.41	LT	1			
57+41.53	LT	1			
58+32.08	LT	1			
59+62.00	LT	1			
60+77.20	LT	1			
62+54.90	LT	1			
63+22.55	LT	1			
64+27.27	LT	1			
65+36.49	LT	1			
66+39.16	LT	1			
67+64.73	LT	1			
68+87.01	LT	1			
70+58.55	LT	1			
71+30.26	LT	1			
72+13.84	LT	1			
72+89.70	LT	1			
73+62.04	LT	1			
74+45.45	LT	1			
74+51.33	LT	1			
SUB-TOTAL:		32			
TOTAL:		32			

SUMMARY OF EARTHWORK					
PAY ITEM NO.	PAY ITEM DESCRIPTION	CY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
120-1	Regular Excavation				
		19494.0		Neptune Road	
		1866.8		Cross Prairie Pkwy	
		26046.0		Pond 100A	
		3748.1		Fish Lake Canal	
	Total	47407			
120-4	Subsoil Excavation				
		25100.6		Neptune Road	
	Total	25101			
120-6	Embankment				
		85878.6		Neptune Road	
		1.5		Cross Prairie Pkwy	
		2683.0		Pond 100A	
	Total	88563			

<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			DONGHANG ZHAO, P.E. P.E. LICENSE NUMBER 72502 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801	 OSCEOLA COUNTY TRANSIT AND TRANSPORTATION 1 COURTHOUSE SQUARE, SUITE 3100 KISSIMMEE, FLORIDA 34741-5488 PHONE:(407) 742-0662 FAX:(407) 742-0600	SUMMARY OF QUANTITIES	SHEET NO. SQ-12
REVISIONS											
DATE	DESCRIPTION										


THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION						P	F	P	F		
0160 4	Type B Stabilization	3+38.29 to 28+91.50		LT	238401			SY	4513.7		79408			
		7+40.75 to 9+58.51		RT	232487				368.1					
		9+76.51 to 10+74.67		RT	232494				170.9					
		10+86.67 to 12+19.05		RT	247702				232.8					
		12+35.05 to 13+14.95		RT	247708				139.0					
		13+26.95 to 14+39.15		RT	232511				173.7					
		14+51.15 to 15+14.00		RT	232523				107.2					
		15+26.00 to 16+11.53		RT	232536				146.5					
		16+13.49 to 16+13.49		RT	26208				18296.3					
		16+23.53 to 21+26.12		RT	238459				892.0					
		21+38.12 to 28+77.55		RT	238435				1317.3					
		30+03.42 to 43+46.69		LT/RT	232978				10856.4					
		30+51.19 to 34+44.00		RT	238480				697.8					
		30+52.32 to 38+22.00		LT	234973				1368.9					
		34+56.00 to 51+72.72		RT	232913				3036.4					
		38+38.00 to 41+09.58		LT	234989				478.8					
		41+28.82 to 42+17.00		LT	232630				152.8					
		42+28.87 to 43+17.50		LT	232636				154.0					
		43+36.83 to 50+22.62		LT	232642				1213.6					
		43+42.49 to 56+08.63		LT/RT	233042				9614.4					
		50+34.62 to 52+23.56		LT	232648				330.3					
		52+35.56 to 52+83.49		LT	232655				82.2					
		52+35.64 to 60+53.58		RT	238377				1454.4					
		52+83.45 to 54+21.00		LT	232665				214.6					
		54+32.85 to 55+75.24		LT	232674				249.6					
		55+87.24 to 56+46.86		LT	232680				102.6					
		56+04.65 to 65+23.22		LT/RT	233116				7269.9					
		56+58.86 to 57+17.74		LT	232686				98.1					
		57+29.74 to 58+43.85		LT	232692				197.3					
		58+55.85 to 59+38.38		LT	232700				141.2					
		59+50.38 to 60+89.26		LT	232707				241.3					
		61+01.26 to 62+66.72		LT	232713				287.7					
		61+62.68 to 69+03.19		RT	232857				1315.8					
		62+78.72 to 62+98.76		LT	232719				24.4					
		63+10.76 to 64+03.40		LT	232723				158.5					
		64+15.40 to 65+12.89		LT	232760				167.3					
		65+19.09 to 74+92.75		LT/RT	233686				7599.6					
		65+24.89 to 66+07.34		LT	232767				141.0					
		66+27.34 to 66+70.22		LT	232773				72.4					
		66+82.22 to 66+98.73		LT	232779				20.2					
		67+10.73 to 67+76.10		LT	232783				110.6					
		67+88.10 to 68+98.86		LT	232789				191.4					
		69+12.86 to 70+70.43		LT	232796				274.6					
		70+11.40 to 74+92.75		RT	232841				855.7					
		70+82.43 to 71+06.16		LT	232802				36.9					
		71+18.16 to 72+25.94		LT	232808				186.1					
		72+37.94 to 73+01.25		LT	232814				107.0					
		73+13.25 to 73+74.31		LT	232820				103.0					
		73+90.31 to 74+63.04		LT	232826				123.7					
		74+75.04 to 74+92.81		LT	232834				28.8					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600


SUMMARY OF QUANTITIES

SHEET NO.
SQ-13

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION						P	F	P	F		
0160 4	Type B Stabilization (CONT'D)	512+45.67 to 518+64.94		LT/RT	34706			SY	1550.2					
		523+33.28 to 523+33.28		LT	237073				1741.2					
285701	Optional Base, Base Group 01	3+40.28 to 28+91.15		LT	227021			SY	3375.6		17613			
		7+42.90 to 9+58.50		RT	248031				271.8					
		9+76.51 to 10+74.67		RT	248016				130.0					
		10+86.67 to 12+19.05		RT	248025				176.1					
		12+35.05 to 13+14.95		RT	247983				105.6					
		13+26.95 to 14+39.15		RT	247990				126.4					
		14+51.15 to 15+14.00		RT	248001				82.4					
		15+26.00 to 16+11.53		RT	251151				117.9					
		16+23.53 to 21+26.12		RT	251172				702.1					
		21+38.12 to 28+77.55		RT	251210				1042.9					
		30+51.20 to 34+44.00		RT	251301				552.6					
		30+52.30 to 38+22.33		LT	251336				1085.0					
		34+56.00 to 51+72.16		RT	251642				2412.8					
		38+37.67 to 41+09.25		LT	251603				380.8					
		41+29.15 to 42+17.00		LT	251613				122.8					
		42+28.98 to 43+17.50		LT	251623				123.8					
		43+37.41 to 50+22.62		LT	251633				962.2					
		50+34.62 to 52+23.56		LT	251561				263.4					
		52+35.31 to 60+53.91		RT	251684				1151.3					
		52+35.56 to 53+42.33		LT	251568				148.1					
		53+57.67 to 54+21.00		LT	251584				88.0					
		54+32.98 to 55+75.24		LT	251594				199.4					
		55+87.24 to 56+46.86		LT	251533				83.2					
		56+58.86 to 57+17.74		LT	251540				79.8					
		57+29.74 to 58+43.85		LT	251547				158.1					
		58+55.85 to 59+38.38		LT	251554				113.7					
		59+50.38 to 60+89.26		LT	251526				192.4					
		61+01.26 to 62+66.72		LT	251519				230.4					
		61+59.22 to 69+03.52		RT	251698				1046.5					
		62+78.72 to 62+98.76		LT	251513				20.7					
		63+10.76 to 64+03.40		LT	251506				127.3					
		64+15.40 to 65+12.89		LT	251498				134.9					
		65+24.89 to 66+07.34		LT	251490				114.1					
		66+27.34 to 66+70.22		LT	251476				58.2					
		66+82.22 to 66+98.73		LT	251484				17.2					
		67+10.73 to 67+76.10		LT	251468				89.9					
		67+88.10 to 68+98.86		LT	251460				154.0					
		69+12.86 to 70+70.43		LT	251452				219.9					
		70+11.40 to 74+92.75		RT	251372				677.5					
		70+82.43 to 71+06.16		LT	251444				31.0					
		71+18.16 to 72+25.94		LT	251437				149.2					
		72+37.94 to 73+01.25		LT	251430				86.6					
		73+13.25 to 73+74.31		LT	251423				83.5					
		73+90.31 to 74+63.04		LT	251416				99.9					
		74+75.04 to 74+92.81		LT	251393				23.8					
285709	Optional Base, Base Group 09	4+30.03 to 29+33.57		LT/RT	229156			SY	15518.7		33957			
		30+03.43 to 50+01.01		LT/RT	230416				13399.6					
		50+01.01 to 53+00.00		LT/RT	233975				2230.3					

<p align="center">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>DONGHANG ZHAO, P.E. P.E. LICENSE NUMBER 72502 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801</p>			<p>OSCEOLA COUNTY TRANSIT AND TRANSPORTATION</p> <p>1 COURTHOUSE SQUARE, SUITE 3100 KISSIMMEE, FLORIDA 34741-5488 PHONE:(407) 742-0662 FAX:(407) 742-0600</p>		<p>SUMMARY OF QUANTITIES</p>		<p>SHEET NO. SQ-14</p>
DATE	DESCRIPTION	DATE	DESCRIPTION																

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SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION						P	F	P	F		
285709	Optional Base, Base Group 09 (CONT'D)	51+63.26 to 51+84.08		RT	234029			SY	13.2					
		52+08.16 to 52+41.10		RT	234023				40.2					
		512+46.00 to 518+66.85		LT/RT	231209				1289.7					
		519+94.65 to 526+77.22		LT/RT	231158				1465.5					
285710	Optional Base, Base Group 10	53+00.00 to 57+36.33		RT	235025			SY	1260.5		14964			
		53+00.00 to 57+36.33		LT/RT	235018				1525.7					
		57+36.33 to 65+85.20		LT/RT	235030				5900.8					
		60+71.29 to 60+88.25		RT	235068				4.1					
		60+94.53 to 60+96.56		RT	235073				1.0					
		61+31.93 to 61+64.82		RT	235079				36.5					
		65+85.08 to 74+92.75		LT/RT	235051				6230.7					
		68+98.79 to 69+24.28		RT	235088				4.6					
0327 70 2	Milling Exist Asph Pavt, 3 1/2" Avg Depth	512+46.00 to 518+65.14		LT/RT	250184			SY	72.2		154		CROSS PRAIRIE PKWY	
		519+97.38 to 526+77.22		LT/RT	111537				81.9				CROSS PRAIRIE PKWY	
0327 70 6	Milling Exist Asph Pavt, 1 1/2" Avg Depth	0+65.50 to 6+00.00		LT/RT	249416			SY	1609.8		12423			
		0+65.50 to 7+50.00		RT	249435				1926.7					
		28+00.00 to 30+50.00		LT/RT	249521				2654.3					
		51+76.44 to 52+15.06		RT	108745				130.3					
		60+78.02 to 61+39.53		RT	108758				199.4					
		69+06.36 to 70+12.77		RT	234245				313.0					
		512+46.00 to 518+47.63		RT	249307				1409.4				CROSS PRAIRIE PKWY	
		513+46.00 to 518+39.18		LT	249241				1325.6				CROSS PRAIRIE PKWY	
		520+32.22 to 526+77.22		LT	249328				1494.9				CROSS PRAIRIE PKWY	
		520+43.48 to 525+77.22		RT	249193				1359.6				CROSS PRAIRIE PKWY	
0327 70 7	Milling Exist Asph Pavt, 4" Avg Depth	474+19.36 to 474+19.36		RT	234257			SY	4.4		113			
		481+62.65 to 481+62.65		RT	108720				5.2					
		481+93.99 to 481+93.99		RT	108705				1.7					
		482+06.43 to 482+06.43		RT	108698				2.1					
		490+40.24 to 490+40.24		RT	108689				5.4					
		490+76.91 to 490+76.91		RT	108678				3.8					
		518+39.88 to 519+10.74		LT	250724				19.4					
		519+56.42 to 520+31.27		LT	250708				20.7					
		519+66.13 to 520+43.31		RT	250701				10.6					
		548+76.07 to 548+76.07		LT	250493				11.9					
		551+69.91 to 551+69.91		LT	250368				19.0					
		553+31.32 to 553+31.32		LT	250445				8.6					
0334 1 13	Superpave Asphaltic Conc, Traffic C	3+40.28 to 28+91.15		LT	231441			TN	278.49		1396.4			
		7+42.90 to 9+58.50		RT	250734				22.42					
		9+76.51 to 10+74.67		RT	250742				10.72					
		10+86.67 to 12+19.05		RT	250751				14.53					
		12+35.05 to 13+14.95		RT	250757				8.71					
		13+26.95 to 14+39.15		RT	250764				10.43					
		14+51.15 to 15+14.00		RT	250775				6.80					
		15+26.00 to 16+11.53		RT	250790				9.24					
		16+23.53 to 21+26.12		RT	250797				55.33					
		21+38.12 to 28+77.55		RT	231541				81.51					
		30+51.19 to 34+44.00		RT	231554				43.19					
		30+53.48 to 38+22.00		LT	235159				84.69					
		34+56.00 to 51+72.05		RT	231593				188.58					
		38+38.00 to 41+09.20		LT	250826				29.80					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

SUMMARY OF QUANTITIES

SHEET NO.
SQ-15


THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION						P	F	P	F		
0334 1 13	Superpave Asphaltic Conc, Traffic C (CONT'D)	41+29.20 to 42+17.00		LT	250833			TN	9.63					
		42+29.00 to 43+17.50		LT	250840				9.70					
		43+37.50 to 50+22.62		LT	250847				75.27					
		50+34.62 to 52+23.56		LT	250855				20.62					
		52+35.56 to 53+42.00		LT	250862				11.60					
		52+35.65 to 60+53.58		RT	231686				89.99					
		53+58.00 to 54+21.00		LT	250875				6.90					
		54+33.00 to 55+75.24		LT	250882				15.62					
		55+87.24 to 56+46.86		LT	250889				6.53					
		56+58.86 to 57+17.74		LT	250896				6.26					
		57+29.74 to 58+43.85		LT	250903				12.39					
		58+55.85 to 59+38.38		LT	250910				8.91					
		59+50.38 to 60+89.26		LT	250917				15.06					
		61+01.26 to 62+66.72		LT	250924				17.96					
		61+59.55 to 69+03.19		RT	251014				81.79					
		62+78.72 to 62+98.76		LT	250931				1.64					
		63+10.76 to 64+03.40		LT	250937				9.98					
		64+15.40 to 65+12.89		LT	231727				10.74					
		65+24.89 to 66+07.34		LT	231733				9.07					
		66+27.34 to 66+70.22		LT	250995				4.55					
		66+82.22 to 66+98.73		LT	251002				1.36					
		67+10.73 to 67+76.10		LT	251007				7.03					
		67+88.10 to 68+98.86		LT	250988				12.02					
		69+12.86 to 70+70.43		LT	250981				17.17					
		70+11.40 to 74+92.75		RT	231808				52.95					
		70+82.43 to 71+06.16		LT	250974				2.44					
		71+18.16 to 72+25.94		LT	250967				11.69					
		72+37.94 to 73+01.25		LT	250946				6.80					
		73+13.25 to 73+74.31		LT	250953				6.55					
		73+90.31 to 74+63.04		LT	250960				7.84					
		74+75.04 to 74+92.79		LT	231803				1.87					
0334 1 53	Superpave Asphaltic Concrete, Traffic C, PG 76-22	0+65.50 to 6+00.00		LT/RT	189153			TN	449.76		9134.2			
		0+65.50 to 7+50.00		RT	189181				533.45					
		2+06.54 to 2+83.22		LT/RT	189333				2.40					
		4+30.03 to 6+00.00		LT	189325				21.91					
		6+00.00 to 18+00.00		LT/RT	189282				1020.05					
		6+42.97 to 7+50.00		RT	189320				5.42					
		18+00.00 to 28+00.00		LT/RT	50105				481.00					
		18+00.00 to 28+00.00		LT	50094				321.47					
		28+00.00 to 29+33.30		RT	189262				33.34					
		28+00.00 to 29+33.57		LT	189245				49.91					
		28+00.00 to 30+50.00		LT/RT	189196				744.61					
		30+03.43 to 30+50.00		LT	189257				19.89					
		41+70.18 to 41+70.18		LT	50579				1703.38					
		51+63.26 to 52+41.10		RT	59773				21.22					
		53+00.00 to 64+97.75		LT/RT	234386				1797.61					
		60+71.29 to 61+64.82		RT	234501				54.45					
		64+93.88 to 74+92.75		LT/RT	234445				1484.30					
		68+98.79 to 70+12.11		RT	234515				69.99					
		512+46.00 to 518+66.22		LT/RT	112076				149.82					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

SUMMARY OF QUANTITIES

SHEET NO.
SQ-16


THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION						P	F	P	F		
0334 1 53	Superpave Asphaltic Concrete, Traffic C, PG 76-22 (CONT'D)	519+97.38 to 526+77.22		LT/RT	210849			TN	170.21					
0337 7 83	Asphalt Concrete Friction Course, Traffic C, FC-12.5, PG 76-22	0+65.50 to 18+00.00		LT/RT	234613			TN	925.76		5084.1			
		18+00.00 to 28+00.00		LT	59181				241.10					
		18+00.00 to 28+00.00		LT/RT	59192				360.75					
		51+41.63 to 51+41.63		RT	62467				2793.52					
		51+63.26 to 52+41.10		RT	59781				15.91					
		60+71.29 to 61+64.82		RT	59677				20.61					
		68+98.79 to 70+12.77		RT	234677				26.58					
		512+46.00 to 518+47.64		RT	60579				121.79					
		512+46.00 to 518+66.48		LT/RT	60512				106.39					
		513+46.00 to 518+39.18		LT	60597				109.36					
		519+97.45 to 526+77.22		LT/RT	60480				120.89					
		520+32.22 to 526+77.22		LT	60552				129.24					
		520+43.48 to 525+77.22		RT	60531				112.17					

SUMMARY OF MISCELLANEOUS ASPHALT PAVEMENT

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	THICK (IN)	UNDER GUARDRAIL		DESIGN NOTES	CONSTRUCTION REMARKS
						0339 1			
						P	F		
16+29.40 to 18+85.00	RT	234959				7.21			
17+15.00 to 19+93.10	LT	64764				6.18			
SUB-TOTAL:						13.39			
TOTAL:						13.4			
GRAND TOTAL:						13.4			

<p align="center">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>DONGHANG ZHAO, P.E. P.E. LICENSE NUMBER 72502 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801</p>			<p>OSCEOLA COUNTY TRANSIT AND TRANSPORTATION 1 COURTHOUSE SQUARE, SUITE 3100 KISSIMMEE, FLORIDA 34741-5488 PHONE:(407) 742-0662 FAX:(407) 742-0600</p>		<p>SUMMARY OF QUANTITIES</p>		<p>SHEET NO. SQ-17</p>
DATE	DESCRIPTION	DATE	DESCRIPTION																

SUMMARY OF WALLS

WALL NO.	PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			STA. TO STA.				P	F	P	F		
	400-0-11	Concrete Class NS, Gravity wall index 400-011	27+20.00 to 27+65.00		RT	CY	8.1		8.1			
	415-1-1	Reinforcing Steel	27+20.00 to 27+65.00		RT	LB	202.0		202.0			

SUMMARY OF SIDE DRAIN & MITERED END SECTIONS

LOCATION				PIPE LENGTH - LF				MES - EA				DESIGN NOTES	CONSTRUCTION REMARKS			
STA. TO STA.		SIDE	BACK		AHEAD		ROUND (0430174118)		ROUND (0430174124)		ROUND (0430984125)			ROUND (0430984129)		
			OFFSET	ℓ	OFFSET	ℓ	18"		24"		18"			24"		
						P	F	P	F	P	F	P	F			
41+03.15	41+37.33	LT	-83.96	55.85	-83.56	55.87						2		SD-1		
42+04.00	42+38.19	LT	-82.72	55.90	-83.06	55.91						2		SD-2		
42+99.39	43+33.58	LT	-84.01	55.95	-84.02	55.97						2		SD-3		
50+08.93	50+48.76	LT	-86.62	56.94	-86.97	57.33						2		SD-4		
52+11.67	52+50.00	LT	-82.59	58.92	-77.16	59.30						2		SD-5		
53+32.00	53+68.00	LT	-76.64	60.10	-76.34	60.45	28.1			2				SD-6		
SUB-TOTAL:							28.1		141.4		2		10			
TOTAL:							28		141		2		10			

SUMMARY OF RAILING

LOCATION		SIDE	PIPE HANDRAIL - GUIDRAIL (ALUMINUM)		PED/BICYCLE RAILING (ALUMINUM ONLY) (42" TYPE 1)		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.			LF		LF			
			P	F	P	F		
51+33.50	51+42.50	RT	9.0					
17+48.07	17+75.05	RT			27.0			
17+56.20	19+13.36	LT			157.2			
17+75.05	17+95.44	RT			20.4			
17+95.42	18+22.40	RT			27.3			
18+22.40	18+41.12	RT			18.9			
18+41.12	19+00.00	RT			58.9			
19+38.00	19+60.12	RT			9.0			
SUB-TOTAL:			9.0		319.0			
TOTAL:			9		319			

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

SUMMARY OF QUANTITIES

SHEET NO.

SQ-18

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
						GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F
							TYPE	LENGTH	P	F				
0520 1 7	Concrete Curb & Gutter, Type E	1+98.55 to 2+34.99	RT		LF	36.4				12227				
		1+98.58 to 3+40.29	RT			141.5								
		2+34.99 to 2+85.24	LT/RT			51.4								
		2+85.24 to 3+40.26	LT			55.1								
		3+40.26 to 10+84.98	LT			745.3								
		3+40.28 to 8+85.00	RT			543.9								
		8+85.00 to 9+35.00	LT/RT			51.2								
		9+35.00 to 10+05.62	LT			70.6								
		10+05.62 to 11+70.00	LT			164.4								
		10+84.98 to 11+70.00	LT			85.0								
		11+70.01 to 11+70.01	LT			10.2								
		12+90.00 to 12+90.00	RT			10.2								
		12+90.00 to 15+25.00	RT			235.0								
		12+90.00 to 23+00.00	RT			1010.0								
		15+25.00 to 15+75.00	LT/RT			51.2								
		15+75.00 to 23+00.03	LT			725.0								
		23+00.00 to 24+60.00	RT			160.0								
		23+00.03 to 24+60.03	LT			160.0								
		24+60.00 to 24+98.31	RT			38.3								
		24+60.03 to 25+98.55	LT			138.5								
		24+98.31 to 25+98.55	LT/RT			102.6								
		33+88.38 to 34+40.00	RT			51.6								
		33+88.38 to 34+88.63	LT/RT			102.6								
		34+40.00 to 36+00.00	RT			160.0								
		34+88.63 to 36+11.18	LT			122.5								
		36+00.00 to 36+11.16	RT			11.2								
		36+11.16 to 48+50.76	RT			1239.6								
		36+11.18 to 36+50.00	LT			38.8								
		36+50.00 to 38+10.43	LT			160.5								
		38+10.00 to 51+36.00	LT			1326.0								
		48+50.76 to 49+00.76	LT/RT			51.2								
		49+00.76 to 51+36.00	LT			235.2								
		51+36.00 to 51+36.00	LT			10.2								
		52+57.00 to 52+57.00	RT			10.2								
		52+57.00 to 52+83.34	RT			26.4								
		52+57.00 to 52+83.34	RT			26.3								
		52+83.34 to 54+92.00	RT			208.7								
		52+83.34 to 57+46.76	RT			463.4								
		54+92.00 to 55+42.00	LT/RT			51.2								
		55+42.00 to 60+32.00	LT			490.0								
		57+46.76 to 57+96.76	LT/RT			51.2								
		57+96.76 to 60+32.00	LT			235.2								
		60+32.00 to 60+32.00	LT			10.1								
		61+83.99 to 61+84.00	RT			10.2								
		61+84.00 to 64+19.00	RT			235.0								
		61+84.00 to 64+82.28	RT			298.3								
		64+19.00 to 64+69.00	LT/RT			51.2								
		64+69.00 to 64+82.27	LT			13.3								
		64+82.26 to 66+09.00	RT			126.7								
		64+82.27 to 68+94.00	LT			411.7								

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

SUMMARY OF QUANTITIES

SHEET NO.
SQ-19


THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
						GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F
							TYPE	LENGTH	P	F				
0520 1 7	Concrete Curb & Gutter, Type E (CONT'D)	66+09.00 to 66+59.00	LT/RT		LF	51.2			51.2					
		66+59.00 to 68+94.00	LT			235.0			235.0					
		68+94.00 to 68+94.00	LT			10.2			10.2					
		70+42.00 to 70+42.00	RT			10.2			10.2					
		70+42.00 to 72+77.00	RT			235.0			235.0					
		70+42.00 to 74+92.75	RT			450.7			450.7					
		72+77.00 to 73+27.00	LT/RT			51.2			51.2					
		73+27.00 to 74+92.75	LT			165.7			165.7					
		512+46.00 to 513+46.00	LT/RT			101.4			101.4					
		525+77.22 to 526+77.22	LT/RT			102.3			102.3					
0520 1 10	Concrete Curb & Gutter, Type F	3+40.28 to 3+52.65	RT		LF	12.3			12.3	13944				
		3+40.28 to 10+84.98	LT			748.4			748.4					
		3+52.65 to 3+67.27	RT			15.6			15.6					
		4+13.09 to 4+22.88	RT			10.9			10.9					
		4+22.88 to 10+05.62	RT			579.2			579.2					
		10+05.62 to 21+48.06	RT			1142.4			1142.4					
		10+84.98 to 22+99.99	LT			1215.0			1215.0					
		21+48.06 to 21+98.06	RT			51.4			51.4					
		21+98.06 to 23+00.00	RT			101.9			101.9					
		22+99.99 to 24+59.99	LT			160.0			160.0					
		23+00.00 to 24+60.00	RT			160.0			160.0					
		24+59.99 to 28+83.55	LT			423.6			423.6					
		24+60.00 to 28+83.30	RT			423.3			423.3					
		28+83.30 to 29+24.29	RT			49.1			49.1					
		28+83.55 to 29+31.55	LT			75.4			75.4					
		29+24.97 to 29+31.30	RT			24.9			24.9					
		30+05.42 to 30+53.42	LT			74.9			74.9					
		30+06.15 to 30+06.15	RT			3.5			3.5					
		30+06.15 to 30+09.47	RT			18.0			18.0					
		30+09.98 to 30+19.39	RT			17.2			17.2					
		30+20.33 to 30+54.15	RT			37.5			37.5					
		30+53.38 to 36+00.00	LT			546.6			546.6					
		30+54.15 to 34+40.00	RT			385.9			385.9					
		34+40.00 to 36+00.00	RT			160.0			160.0					
		36+00.00 to 36+11.22	RT			11.2			11.2					
		36+00.00 to 36+50.00	LT			51.5			51.5					
		36+11.12 to 51+49.08	RT			1537.9			1537.9					
		36+50.00 to 38+10.02	LT			160.1			160.1					
		38+10.02 to 40+99.20	LT			289.2			289.2					
		40+99.20 to 41+39.20	LT			40.0			40.0					
		41+39.20 to 43+01.11	LT			161.9			161.9					
		43+01.11 to 43+35.12	LT			34.0			34.0					
		43+35.12 to 50+12.63	LT			677.5			677.5					
		50+12.62 to 50+44.63	LT			32.0			32.0					
		50+44.63 to 52+13.57	LT			168.9			168.9					
		51+49.08 to 51+82.08	RT			51.8			51.8					
		51+82.08 to 51+82.11	RT			14.9			14.9					
		52+10.16 to 52+58.16	RT			75.3			75.3					
		52+13.56 to 52+45.57	LT			32.0			32.0					
		52+45.57 to 52+83.45	LT			37.8			37.8					

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

SUMMARY OF QUANTITIES

SHEET NO.
SQ-20


THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
		STA. TO STA.				GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F
						TYPE	LENGTH	P	F					
0520 1 10	Concrete Curb & Gutter, Type F (CONT'D)	52+58.16 to 52+83.34	RT		LF	25.2			25.2					
		52+83.34 to 60+56.09	RT			772.8			772.8					
		52+83.45 to 64+82.27	LT			1198.8			1198.8					
		60+56.09 to 60+94.06	RT			61.4			61.4					
		60+93.86 to 60+94.06	RT			4.4			4.4					
		61+33.92 to 61+81.88	RT			73.3			73.3					
		61+81.88 to 64+32.60	RT			250.7			250.7					
		64+82.27 to 74+92.75	LT			1010.5			1010.5					
		65+81.05 to 68+82.63	RT			301.6			301.6					
		68+82.63 to 69+24.70	RT			58.6			58.6					
		69+98.44 to 69+99.75	RT			6.4			6.4					
		69+98.44 to 70+25.85	RT			49.7			49.7					
		70+25.85 to 73+31.60	RT			305.7			305.7					
		74+81.05 to 74+92.75	RT			11.7			11.7					
0520 3	Valley Gutter - Concrete	3+52.68 to 4+78.26	RT		LF	124.9			124.9	1000				
		3+64.96 to 4+13.70	RT			48.4			48.4					
		4+28.20 to 4+75.06	RT			46.6			46.6					
		51+49.08 to 52+58.16	RT			109.1			109.1					
		51+49.13 to 52+58.21	RT			109.1			109.1					
		60+56.09 to 61+81.88	RT			125.8			125.8					
		60+56.15 to 61+81.91	RT			125.8			125.8					
		68+70.48 to 70+25.85	RT			155.4			155.4					
		68+70.51 to 70+25.87	RT			155.4			155.4					
		0520 5 11	Traffic Separator, Concrete, Type I, 4' wide	25+98.55 to 28+83.55	LT		LF	288.1			288.1	1704		
28+08.73 to 29+81.17	LT					555.6			555.6			Cross Prairie Pkwy		
29+57.43 to 29+61.71	RT					522.0			522.0			Cross Prairie Pkwy		
30+53.38 to 33+88.38	RT					338.1			338.1					

SUMMARY OF PERMANENT BARRIERS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.			P	F	P	F		
0521 72 41	Shoulder Concrete Barrier, Retaining Section	65+53.74 to 65+63.74	RT	LF	5.0		5			
0521 72 43	Shoulder Concrete Barrier, Curb & Gutter Barrier	64+32.60 to 64+82.24	RT	LF	24.8		144			
		64+82.24 to 65+53.74	RT		35.7					
		65+63.74 to 65+81.05	RT		8.7					
		73+31.60 to 74+81.05	RT		74.7					

<p align="center">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>DONGHANG ZHAO, P.E. P.E. LICENSE NUMBER 72502 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801</p>			<p>OSCEOLA COUNTY TRANSIT AND TRANSPORTATION</p> <p>1 COURTHOUSE SQUARE, SUITE 3100 KISSIMMEE, FLORIDA 34741-5488 PHONE:(407) 742-0662 FAX:(407) 742-0600</p>		<p>SUMMARY OF QUANTITIES</p>	<p>SHEET NO.</p>
DATE	DESCRIPTION	DATE	DESCRIPTION															
<p align="center">ZhaoD 5/24/2023 2:33:45 AM Default Z:\Inra\2019\A190745.00 - Neptune Road\CAD\445415-3-58-01_PartIn_to_Kings\roadway\SUMORD02.dgn</p>								<p>SQ-21</p>										


THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2		0527 2			
					SY		SY		SF			
P	F	P	F	P	F							
17+47.95 to 19+00.00	RT	893184			80.4							
17+56.20 to 19+13.36	LT	893179			82.9							
29+01.44 to 29+10.78	RT	884320			7.6							
30+18.45 to 30+23.30	LT	884310			16.3							
30+30.84 to 30+37.37	RT	884315			4.9							
60+86.80 to 60+94.06	RT	910975			11.1							
3+64.95 to 4+13.70	RT	913824					10.0					
4+22.87 to 4+78.22	RT	913829					18.6					
9+48.37 to 9+86.48	RT	913830					89.3					
10+64.67 to 10+96.67	RT	913831					64.3					
12+09.05 to 12+45.05	RT	913994					34.0					
13+04.95 to 13+36.95	RT	913841					91.4					
14+29.15 to 14+68.11	RT	913850					108.4					
14+92.39 to 15+36.01	RT	913861					117.3					
15+89.83 to 16+33.54	RT	913873					131.8					
21+16.12 to 21+48.13	RT	913884					69.9					
28+77.55 to 29+24.29	RT	913913					83.5					
28+91.15 to 29+31.55	LT	913891					108.9					
30+08.68 to 30+59.27	LT	913899					80.4					
30+09.01 to 30+53.79	RT	914045					77.3					
34+34.00 to 34+66.00	RT	913970					72.6					
38+11.99 to 38+48.00	LT	914044					32.2					
40+99.19 to 41+39.20	LT	913971					109.4					
42+06.99 to 42+39.00	LT	913993					90.1					
43+07.49 to 43+47.50	LT	913972					124.6					
50+12.62 to 50+44.62	LT	913923					78.3					
51+67.85 to 51+81.52	RT	914021					13.1					
51+72.05 to 51+81.52	RT	914013					0.6					
52+13.56 to 52+49.58	LT	913924					122.4					
52+16.51 to 52+35.68	RT	913974					18.6					
53+32.00 to 53+68.00	LT	913996					32.2					
54+11.00 to 54+43.00	LT	914127					29.6					
54+17.54 to 54+32.77	LT	914173					57.3				In-eligible	
55+65.24 to 55+97.24	LT	914130					29.6					
55+75.24 to 55+87.24	LT	914176					47.9				In-eligible	
56+36.85 to 56+68.86	LT	914133					29.6					
56+46.86 to 56+58.86	LT	914179					48.4				In-eligible	
56+99.70 to 57+35.17	LT	914182					55.1				In-eligible	
57+07.74 to 57+39.74	LT	914136					34.4					
58+33.84 to 58+65.85	LT	914141					31.8					
58+43.85 to 58+84.62	LT	914189					90.7				In-eligible	
59+28.38 to 59+60.38	LT	914146					31.8					
59+38.38 to 59+50.38	LT	914201					57.3				In-eligible	
60+53.58 to 60+92.40	RT	914034					66.8					
60+79.25 to 61+11.26	LT	914161					44.8					
61+41.53 to 61+59.56	RT	914074					17.5					
62+56.72 to 63+20.76	LT	914149					69.1					
SUB-TOTAL:					203.2		2520.9					
TOTAL:					203		3407		393			

REVISIONS			
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DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600


SUMMARY OF QUANTITIES

SHEET NO.
SQ-22

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2		0527 2			
					SY		SY		SF			
					P	F	P	F	P	F		
62+66.72 to 62+78.72	LT	914204					39.3				In-eligible	
62+98.76 to 63+10.76	LT	914207					51.5				In-eligible	
63+93.40 to 64+25.40	LT	914154					31.8					
64+03.40 to 64+15.40	LT	914210					57.3				In-eligible	
65+02.88 to 65+34.89	LT	914157					31.9					
65+12.89 to 65+24.89	LT	914213					57.3				In-eligible	
65+97.33 to 66+37.34	LT	914163					98.4					
66+60.21 to 67+20.73	LT	914165					122.3					
67+66.09 to 67+98.10	LT	914167					47.8					
68+88.86 to 69+22.86	LT	914169					63.8					
69+03.19 to 69+20.22	RT	913997					16.8					
69+97.67 to 70+11.40	RT	913984					14.9					
70+60.43 to 70+92.43	LT	913964					42.5					
70+96.15 to 71+28.16	LT	913965					35.8					
72+15.93 to 72+47.94	LT	913966					36.7					
72+91.25 to 73+23.25	LT	913967					35.8					
73+64.31 to 74+00.31	LT	913968					45.1					
74+53.04 to 74+85.04	LT	913969					57.2					
28+84.50 to 28+98.13	RT	618545							27.2			
29+01.46 to 29+14.36	LT	619294							27.9			
29+14.41 to 29+24.05	RT	618551							26.1			
29+24.28 to 29+30.65	LT	619288							27.1			
30+10.20 to 30+20.40	RT	618557							31.2			
30+12.28 to 30+21.31	LT	619281							24.1			
30+37.50 to 30+51.80	RT	618563							27.5			
30+38.46 to 30+52.28	LT	619275							27.4			
51+72.57 to 51+80.68	RT	910982							25.9			
52+23.62 to 52+23.62	RT	864706							29.9			
60+74.68 to 60+89.44	RT	910988							38.2			
61+41.47 to 61+52.55	RT	914217							29.2			
69+10.19 to 69+20.22	RT	910999							27.8			
69+98.41 to 70+04.40	RT	619269							23.3			
SUB-TOTAL:								886.2		392.8		

<p align="center">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>DONGHANG ZHAO, P.E. P.E. LICENSE NUMBER 72502 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801</p>			<p>OSCEOLA COUNTY TRANSIT AND TRANSPORTATION</p> <p>1 COURTHOUSE SQUARE, SUITE 3100 KISSIMMEE, FLORIDA 34741-5488 PHONE:(407) 742-0662 FAX:(407) 742-0600</p>		<p>SUMMARY OF QUANTITIES</p>		<p>SHEET NO. SQ-23</p>
DATE	DESCRIPTION	DATE	DESCRIPTION																

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF DITCH PAVEMENT														
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	CONCRETE DITCH PAVT, NON-REINFORCED, 3"		RIPRAP - RUBBLE (BANK AND SHORE)		RIPRAP - RUBBLE (DITCH LINING)		BEDDING STONE		DESIGN NOTES	CONSTRUCTION REMARKS
					0524	2	1	0530	3	3	0530	3		
STA. TO STA.					SY		TN		TN		TN			
					P	F	P	F	P	F	P	F		
17+68.24 to 18+11.93	RT		43.69	30.7			129.95				77.13		CD-1	
17+85.15 to 18+63.27	RT		78.11	30.1			227.82				135.22		CD-1	
17+94.99 to 18+90.17	LT		95.18	21.9			202.24				120.04		CD-1	
42+96.50 to 43+03.50	RT		7.0	7.0					3.92				S-137OUT	
19+51.41 to 19+61.89	LT		10.5	7.1	8.3								CS-100	
37+20.71 to 37+79.11	RT		58.4	38.2	247.6								CS-103	
SUB-TOTAL:					255.8		560.01		3.92		332.39			
TOTAL:					255.8		560.0		3.9		332.4			

SUMMARY OF GUARDRAIL											
LOCATION	SIDE	GUARDRAIL (W-BEAM, LOW SPEED, TL-2)		GUARDRAIL REMOVAL		GUARDRAIL END TREATMENT - TRAILING ANCHORAGE		GUARDRAIL END TREATMENT - PARALLEL APPROACH		DESIGN NOTES	CONSTRUCTION REMARKS
		0536	1	0	0536	73	0536	85	20		
STA. TO STA.		LF		LF		EA		EA			
		P	F	P	F	P	F	P	F		
16+41.95 to 18+75.00	RT	233.0				1.0		1.0			
17+25.00 to 19+83.10	LT	258.1				1.0		1.0			
18+89.82 to 19+38.05	RT			48.3							
19+38.05 to 20+38.06	RT			100.0							
19+82.13 to 20+21.50	LT			39.4							
20+21.50 to 20+38.08	LT			16.6							
20+38.06 to 21+52.78	RT			114.7							
20+38.08 to 21+36.94	LT			98.9							
21+36.94 to 22+21.84	LT			84.9							
22+21.84 to 22+60.72	LT			38.9							
SUB-TOTAL:		491.1		541.7		2.0		2.0			
TOTAL:		491		542		2		2			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT AND TRANSPORTATION
1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

SUMMARY OF QUANTITIES

SHEET NO.


SQ-24

SUMMARY OF PERFORMANCE TURF

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF		PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
					0570	1 1	0570	1 2		
					SY		SY			
P	F	P	F							
3+40.14 to 22+69.71	LT	910171			8474.8					
7+19.66 to 9+58.62	RT	910761			239.0					
9+76.60 to 10+74.68	RT	910774			101.3					
10+86.67 to 13+22.23	RT	910797			257.9					
13+26.95 to 14+41.85	RT	910814			181.7					
14+51.15 to 15+14.00	RT	910830			202.5					
15+20.71 to 16+11.53	RT	910109			179.1					
16+23.53 to 17+02.99	RT	910124			116.7					
17+92.11 to 20+44.92	LT	910231			2389.2					
18+39.07 to 29+13.29	LT	910136			3732.3					
18+89.00 to 18+89.00	LT	902240			759.9					
30+23.29 to 38+22.00	LT	910257			1794.3					
35+25.84 to 51+66.85	RT	910854			1667.2					
38+38.00 to 41+14.96	LT	910297			811.5					
41+24.88 to 42+16.80	LT	910307			388.4					
42+26.45 to 43+16.97	LT	910314			397.9					
43+21.64 to 50+22.62	LT	910319			2185.0					
50+34.57 to 52+23.56	LT	910703			716.3					
52+35.56 to 54+20.77	LT	910718			563.2					
53+00.00 to 60+87.75	RT	910900			558.5					
54+29.46 to 55+75.24	LT	910381			210.2					
55+87.24 to 56+46.86	LT	910392			128.2					
56+58.85 to 57+13.35	LT	910405			71.1					
57+29.74 to 58+56.13	LT	910421			179.8					
58+55.85 to 59+38.38	LT	910434			184.6					
59+50.38 to 60+89.26	LT	910447			118.5					
61+01.26 to 62+66.72	LT	910458			134.1					
62+78.72 to 62+98.76	LT	910753			85.2					
63+10.76 to 64+03.41	LT	910469			160.3					
64+15.40 to 65+12.89	LT	910480			199.3					
65+24.89 to 66+07.34	LT	910492			140.9					
66+27.34 to 66+70.22	LT	910504			57.7					
66+82.22 to 66+98.73	LT	910515			25.7					
67+10.73 to 67+76.10	LT	910527			64.5					
67+92.83 to 68+98.86	LT	910920			59.1					
69+12.86 to 70+70.43	LT	910554			122.9					
70+82.43 to 71+06.16	LT	910566			14.3					
71+18.16 to 72+25.94	LT	910587			56.2					
72+37.94 to 73+01.25	LT	910594			33.0					
73+13.25 to 73+74.31	LT	910601			31.5					
73+90.31 to 74+63.04	LT	910609			52.7					
74+75.04 to 74+92.83	LT	910619			24.3					
1+98.55 to 11+70.01	LT/RT	897880						1278.2		
3+40.28 to 3+67.27	RT	898344						3.4		
3+40.28 to 17+15.00	LT	899540						1053.6		
4+08.45 to 10+50.52	LT	909238						215.2		
7+42.74 to 9+58.53	RT	909453						108.7		
SUB-TOTAL:					27870.8			2659.1		
TOTAL:					27871			27343		

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

SUMMARY OF QUANTITIES

SHEET NO.
SQ-25

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF PERFORMANCE TURF

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF		PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
					0570	1 1	0570	1 2		
					SY		SY			
P	F	P	F							
7+43.41 to 9+58.45	RT	897953					95.3			
9+76.50 to 10+74.67	RT	897965					38.1			
9+76.57 to 10+74.67	RT	909461					68.7			
10+47.66 to 11+35.34	LT	909245					28.3			
10+86.67 to 13+14.95	RT	897979					95.9			
10+86.67 to 13+14.95	RT	909468					164.4			
11+32.47 to 15+57.09	LT	909252					140.3			
12+90.00 to 25+98.55	LT/RT	897898					2275.6			
13+26.95 to 14+39.15	RT	909476					83.0			
13+26.95 to 14+39.15	RT	897989					44.3			
14+51.15 to 15+14.00	RT	899606					19.7			
14+51.15 to 16+11.53	RT	909767					50.0			
15+26.00 to 16+11.53	RT	899607					24.1			
16+18.26 to 18+22.70	LT	909280					134.7			
16+23.53 to 16+91.29	RT	909526					22.1			
16+94.87 to 19+30.01	RT	909531					361.8			
18+19.85 to 29+13.47	LT	909265					675.2			
18+85.00 to 21+22.46	RT	899658					108.3			
19+30.01 to 29+03.34	RT	909691					2778.2			
19+93.10 to 28+91.72	LT	898327					399.1			
25+08.82 to 25+08.82	RT	898011					331.0			
30+33.34 to 44+50.33	RT	909783					2008.6			
30+36.54 to 38+22.00	LT	909288					261.7			
30+51.80 to 34+44.00	RT	898214					486.3			
30+53.48 to 38+22.00	LT	901185					397.1			
33+88.38 to 51+36.00	LT/RT	897910					3143.1			
34+56.00 to 51+72.70	RT	906381					1895.2			
38+38.00 to 41+09.20	LT	899837					86.0			
38+38.00 to 41+09.77	LT	909302					90.5			
41+28.63 to 42+17.00	LT	909307					29.3			
41+29.20 to 42+17.00	LT	899861					24.8			
42+28.81 to 43+17.50	LT	909312					29.4			
42+29.00 to 43+17.50	LT	899862					25.1			
43+36.47 to 50+22.62	LT	909317					228.5			
43+37.50 to 50+22.62	LT	899891					223.9			
44+48.25 to 51+66.28	RT	909618					159.3			
50+34.62 to 52+23.56	LT	899893					58.5			
50+34.62 to 52+23.56	LT	909322					63.0			
52+29.37 to 60+73.94	RT	906409					912.8			
52+30.52 to 60+87.75	RT	909638					193.8			
52+35.56 to 53+42.00	LT	899895					30.9			
52+35.56 to 54+21.00	LT	909327					61.7			
52+57.00 to 60+32.00	LT/RT	897924					874.7			
53+58.00 to 54+21.00	LT	899896					16.6			
54+32.77 to 55+75.24	LT	909338					47.4			
54+33.00 to 55+75.24	LT	899898					43.0			
55+87.24 to 56+46.86	LT	909343					19.9			
55+87.24 to 56+46.86	LT	899900					15.4			
SUB-TOTAL :							19364.6			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

SUMMARY OF QUANTITIES

SHEET NO.
SQ-26

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF PERFORMANCE TURF

LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF		PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
					0570 1 1		0570 1 2			
					SY		SY			
P	F	P	F							
56+58.86 to 57+14.84	LT	909348					18.5			
56+58.86 to 57+17.74	LT	899901					15.2			
57+29.74 to 58+43.85	LT	909354					38.0			
57+29.74 to 58+43.85	LT	899902					33.6			
58+55.85 to 59+38.38	LT	899903					23.1			
58+55.85 to 59+38.38	LT	909359					27.5			
59+50.38 to 60+89.26	LT	899904					41.8			
59+50.38 to 60+89.26	LT	909364					46.3			
61+01.26 to 62+66.72	LT	899905					50.7			
61+01.26 to 62+66.72	LT	909369					55.2			
61+33.92 to 69+24.70	RT	909670					1017.4			
61+55.68 to 69+10.19	RT	900356					792.9			
61+83.99 to 68+94.00	LT/RT	897935					748.7			
62+78.72 to 62+98.76	LT	909374					6.7			
63+10.76 to 64+03.40	LT	909379					30.9			
63+10.76 to 64+03.40	LT	899906					26.4			
64+15.40 to 65+12.89	LT	909384					32.5			
64+15.40 to 65+12.89	LT	899907					28.0			
65+24.89 to 66+07.34	LT	909389					27.5			
65+24.89 to 66+07.34	LT	899908					23.0			
66+27.34 to 66+70.22	LT	899909					9.9			
66+27.34 to 66+70.22	LT	909394					14.3			
66+82.22 to 66+98.73	LT	909404					5.5			
67+10.73 to 67+76.10	LT	899910					17.3			
67+10.73 to 67+76.10	LT	909399					21.8			
67+88.10 to 68+98.86	LT	899911					32.5			
67+88.10 to 68+98.86	LT	909410					36.9			
69+12.86 to 70+70.43	LT	909416					52.5			
69+12.86 to 70+70.43	LT	899913					48.1			
69+98.17 to 74+92.75	RT	909657					648.0			
70+04.40 to 74+92.75	RT	898302					540.1			
70+42.00 to 74+92.75	LT/RT	897946					560.5			
70+82.43 to 71+06.16	LT	909421					7.9			
70+82.43 to 71+06.16	LT	899914					3.5			
71+18.16 to 72+25.94	LT	909426					35.9			
71+18.16 to 72+25.94	LT	899915					31.5			
72+37.94 to 73+01.25	LT	899916					16.7			
72+37.94 to 73+01.25	LT	909431					21.1			
73+13.25 to 73+74.31	LT	899917					15.9			
73+13.25 to 73+74.31	LT	909436					20.4			
73+90.31 to 74+63.04	LT	899918					19.8			
73+90.31 to 74+63.04	LT	909441					24.2			
74+75.04 to 74+92.75	LT	909447					5.9			
74+75.04 to 74+92.79	LT	899919					3.7			
							41		DRAINAGE STRUCTURES	
SUB-TOTAL:							5318.8			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DONGHANG ZHAO, P.E.
P.E. LICENSE NUMBER 72502
GAI CONSULTANTS, INC.
618 E. SOUTH STREET - SUITE 700
ORLANDO, FL 32801



OSCEOLA COUNTY TRANSIT
AND TRANSPORTATION

1 COURTHOUSE SQUARE, SUITE 3100
KISSIMMEE, FLORIDA 34741-5488
PHONE:(407) 742-0662 FAX:(407) 742-0600

SUMMARY OF QUANTITIES

SHEET NO.
SQ-27

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SUMMARY OF LUMP SUM ITEMS					
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
590 70	IRRIGATION SYSTEM		1		
	6" IRRIGATION SLEEVE			1046 LF	
	2" IRRIGATION SLEEVE			1046 LF	
	4" IRRIGATION SLEEVE			415 LF	
	UTILITY MARKER			60 EA	

REVISIONS				DONGHANG ZHAO, P.E. P.E. LICENSE NUMBER 72502 GAI CONSULTANTS, INC. 618 E. SOUTH STREET - SUITE 700 ORLANDO, FL 32801	 OSCEOLA COUNTY TRANSIT AND TRANSPORTATION 1 COURTHOUSE SQUARE, SUITE 3100 KISSIMMEE, FLORIDA 34741-5488 PHONE:(407) 742-0662 FAX:(407) 742-0600	SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				SQ-28