THE PROPOSED WORK CONSISTS OF BUILDING CAST-IN-PLACE REINFORCED CONCRETE RETAINING WALLS IN THE FOLLOWING

RIC-30-9.26 WALL 10B, CAST-IN-PLACE RETAINING WALL LOACATED ALONG RAMP X, BEGINING AT STA. 238+00.00, 20' LT., ENDING AT STA. 240+00.00, 20' LT.

REFERENCE SHALL BE MADE TO SUPPLEMENTAL SPECIFICATION:

NONE

 \bigcirc

REFERENCE SHALL BE MADE TO SUPPLEMENT:

NONE

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2010, AND THE ODOT BRIDGE DESIGN MANUAL, 2019.

DESIGN PARAMETERS:

RETAINED SOIL FRICTION ANGLE = 30° RETAINED SOIL UNIT WEIGHT = 120 PCF

ALLOWABLE COEFFICIENT OF FRICTION = 0.5

DESIGN DATA:

SUBSTRUCTURE CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4000 PSI

SUPERSTRUCTURE CONCRETE CLASS QC2 COMPRESSIVE STRENGTH 4500 PSI

REINFORCING STEEL - ASTM A615 OR A996 GRADE 60, MINIMUM YIELD STRENGTH 60,000 PSI

FOUNDATION BEARING PRESSURE:

RETAINING WALL FOOTINGS, AS DESIGNED, PRODUCE THE FOLLOWING BEARING PRESSURES:

	WALL 10B	FOUNDATION BEARING RESISTANCE (KSF)			
		MAX SERVICE LOAD PRESSURE	MAX STRENGTH LOAD PRESSURE	FACTORED BEARING RESISTANCE	
	STA. 1+00.00 TO STA. 1+50.64	1.7	2.5	6.1	
	STA. 1+50.64 TO STA. 2+59.23	2.4	3.6	6.1	
	STA. 2+59.23 TO STA. 3+13.59	1.9	2.9	6.1	

ITEM 503 - UNCLASSIFIED EXCAVATION. AS PER PLAN:

ALL EXCAVATION REQUIRED TO CONSTRUCT THE PROPOSED EMBANKMENT BETWEEN THE VERTICAL LIMITS OF THE UNCLASSIFIED EXCAVATION FOR THE RETAINING WALL SHALL BE INCLUDED WITH ITEM 503 - UNCLASSIFIED EXCAVATION, AS PER PLAN FOR PAYMENT. UNCLASSIFIED EXCAVATION WILL BE MEASURED PER CMS 503.09.

BACKFILL BETWEEN THE VERTICAL LIMITS OF THE UNCLASSIFIED EXCAVATION FROM THE BOTTOM OF FOOTING ELEVATION SHALL BE INCLUDED WITH ITEM 503 -UNCLASSIFIED EXCAVATION, AS PER PLAN, FOR PAYMENT.

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE):

SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) SHALL BE APPLIED TO ALL EXPOSED SURFACES OF THE CONCRETE FACING OF THE RETAINING WALL INCLUDING THE TOP, BACKSIDE OF WALL DOWN TO THE GUTTER OR TOE OF BARRIER, AND THE FRONT VERTICAL SIDE OF THE CONCRETE FROM TOP TO BOTTOM. THE FINISH COAT COLOR FOR THE RETAINING WALL SHALL BE LIGHT NEUTRAL MEETING FEDERAL COLOR STANDARD NO. 595B-17778.

ABBREVIATIONS:

BOT. - BOTTOM C.J. - CONSTRUCTION JOINT C/C - CENTER TO CENTER CLR. - CLEAR CONST. - CONSTRUCTION

E.F. - EACH FACE EL. - ELEVATION EQ. - EQUAL EX. - EXISTING F.F. - FAR FACE

GFRP - GLASS FIBER REINFORCED POLYMER STIFFENING REINFORCEMENT INC. - INCREMENT LT. - LEFT

MAX. - MAXIMUM

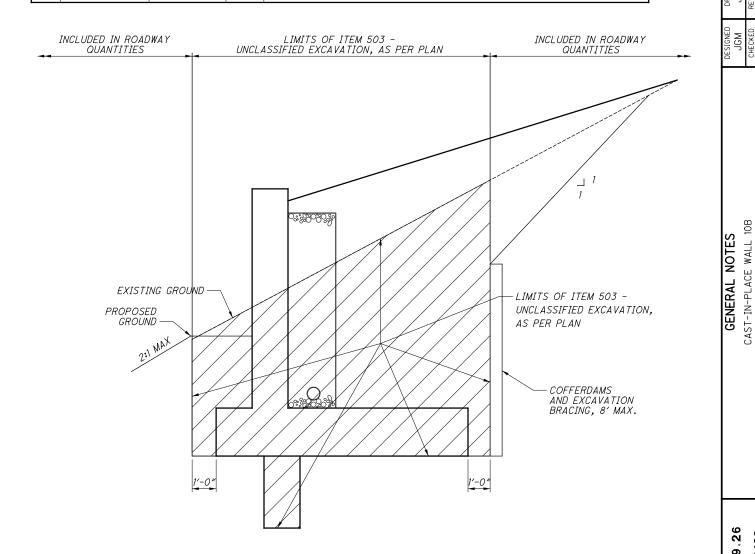
MIN. - MINIMUM MIN. - NON-PERFORATED CORRUGATED PLASTIC PIPE

N.F. - NEAR FACE PCPP - PERFORATED CORRUGATED PLASTIC PIPE PEJF - PREFORMED EXPANSION JOINT FILLER

PROP. - PROPOSED RT. - RIGHT RI. - KIGHI SER. - SERIES SPA. - SPACING STA. - STATION ST. - STRAIGHT T&B - TOP AND BOTTOM TYP. - TYPICAL

				CHECKED BY: NCK DATE: 11/2019			
ESTIMATED QUANTITIES							
ITEM	ITEM EXT.	PARTICIPATION 02/NHS/PV	UNIT	DESCRIPTION			
503	11100	LUMP		COFFERDAMS AND EXCAVATION BRACING			
503	21101	47	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN			
509	10000	35280	LB	EPOXY COATED REINFORCING STEEL			
511	34448	33	CY	CLASS QC2 CONCRETE BRIDGE DECK (PARAPET)			
511	46012	111	CY	CLASS QCI CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING			
511	46510	214	CY	CLASS QCI CONCRETE, FOOTING			
512	10100	349	SY	SEALING OF CONCRETE SURFACES (EPOXY URETHANE)			
512	33000	21	SY	TYPE 2 WATERPROOFING			
516	13600	36	SF	1" PREFORMED EXPANSION JOINT FILLER			
518	21200	115	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC			
518	40000	162	FT	6" PERFORATED CORRUGATED PLASTIC PIPE			
518	40010	40	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS			

CALCULATED BY: JGM DATE: 11/2019



UNCLASSIFIED EXCAVATION, AS PER PLAN, PAYMENT LIMITS

RIC-30-9 Š

93455