

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

ALIGNMENT AND PROFILE

THE WORK PROPOSED FOR THIS PROJECT IS FOR THE RESURFACING OF THE EXISTING PAVEMENT. PLACE THE PROPOSED PAVEMENT TO FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT.

EXTRA AREAS

EXTRA AREAS SHALL INCLUDE DRIVEWAYS, MAILBOX PULL-OFFS, AND OTHER SIMILAIR AREAS AS DETERMINED BY THE ENGINEER. DRIVEWAYS SHALL BE FEATHERED IN APPROXIMATELY 6 FEET USING ASPHALT CONCRETE. SOME DRIVES MAY REQUIRE MORE THAN 6 FEET TO ALLOW FOR ADEQUATE TRANSITION TO THE MAINLINE PAVEMENT. THESE TRANSITIONS WILL BE AS DIRECTED BY THE ENGINEER. THE ASPHALT CONCRETE QUANTITIES FOR DRIVES AND MAILBOXES ARE INCLUDED IN THE EXTRA AREA QUANTITIES IN THE PAVEMENT SUB-SUMMARY.

PLANED SURFACES

NO PLANED SURFACES SHALL BE OPEN TO THE PUBLIC FOR MORE THAN 5 DAYS. IF THE PLANED SURFACE IS OPEN FOR MORE THAN 5 DAYS, THEN IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR THE PAVEMENT FAILURES THAT OCCURED AFTER THE 5 DAYS.

UTILITIES

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN. THE NATURE OF THE WORK REQUIRED BY THIS PROJECT WILL NOT AFFECT ANY KNOWN UNDERGROUND UTILITIES THAT EXIST UNDER OR ADJACENT TO THE WORK AREA.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING OUPS AND ALL APPROPRIATE UTILITY COMPANIES TO MAKE ARRANGEMENTS FOR ANY REQUIRED WORK IN THEIR AREA.

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS, EVEN THOUGH OTHERWISE SHOWN.

PAVEMENT MARKINGS

THE CONTRACTOR SHALL MAKE NOTE OF ALL EXISTING PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS BEFORE PERFORMING ANY WORK. ESTIMATED QUANTITIES HAVE BEEN INCLUDED TO BE USED AS DIRECTED BY THE ENGINEER.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

HEN-18 SURVEYING PARAMETERS - OHIO COUNTY COORDINATE SYSTEM (OCCS)

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL	
POSITIONING METHOD:	VRS - ODOT CORS NETWORK
MONUMENT TYPE:	TYPE B
VERTICAL POSITIONING	
ORTHOMETRIC HEIGHT DATUM:	NAVD88
GEOID:	18
HORIZONTAL POSITIONING	
REFERENCE FRAME:	NAD83 2011 2010.0 EPOCH
ELLIPSOID:	GRS80
COORDINATE SYSTEM:	OCCS HENRY
MAP PROJECTION:	TM
CENTRAL LATITUDE:	N 40° 03' 00"
CENTRAL LONGITUDE:	E 275° 54' 00"
FALSE NORTHING:	0
FALSE EASTING:	164041.67
PROJECTION SCALE FACTOR:	1.000027

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

WOO-64/582 SURVEYING PARAMETERS - OHIO COUNTY COORDINATE SYSTEM (OCCS)

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL	
POSITIONING METHOD:	VRS - ODOT CORS NETWORK, DIFFERENTIAL LEVELING
MONUMENT TYPE:	TYPE B
VERTICAL POSITIONING	
ORTHOMETRIC HEIGHT DATUM:	NAVD88
GEOID:	18
HORIZONTAL POSITIONING	
REFERENCE FRAME:	NAD83 2011 2010.0 EPOCH
ELLIPSOID:	GRS80
COORDINATE SYSTEM:	OCCS WOOD
MAP PROJECTION:	TM
CENTRAL LATITUDE:	N 40° 09' 00"
CENTRAL LONGITUDE:	E 276° 21' 00"
FALSE NORTHING:	0
FALSE EASTING:	164041.67
PROJECTION SCALE FACTOR:	1.000025

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

MONUMENT BOX ASSEMBLIES

IF THE CONTRACTOR REMOVES OR DISTURBS ANY MONUMENT BOX ASSEMBLIES DURING CONSTRUCTION, THEN THEY WILL NEED TO HAVE A REGISTERED SURVEYOR CERTIFY THAT THE MONUMENTS HAVE BEEN RESET AT THE PRE-DISTURBED LOCATION AND PER THE OHIO ADMINISTRATIVE CODE CHAPTER 4733-37, "STANDARDS FOR BOUNDARY SURVEYS". THE CONTRACTOR IS TO FORWARD A COPY OF SAID CERTIFICATION TO THE PROJECT ENGINEER, AND THE DISTRICT SURVEY OPERATIONS MANAGER FOR REVIEW. (SEE EXAMPLE)

I, JOHN D. DOE, P.S. HEREBY CERTIFY THAT THE CENTERLINE MONUMENTATION HAS BEEN RESET AT THE PRECONSTRUCTION LOCATIONS DURING PROJECT CTY-RT-SEC, PID 00000. ALL OF MY WORK CONTAINED HEREIN WAS CONDUCTED IN ACCORDANCE WITH OHIO ADMINISTRATIVE CODE 4733-37 COMMONLY KNOWN AS "A MINIMUM STANDARDS FOR BOUNDARY SURVEYS IN THE STATE OF OHIO" UNLESS OTHERWISE NOTED. THE WORDS I AND MY AS USED HEREIN ARE TO MEAN MYSELF OR SOMEONE UNDER MY DIRECT SUPERVISION.

ALL SURVEY MONUMENTS SET AND/OR RESET BY THE CONSTRUCTION CONTRACTOR'S SURVEYOR SHALL BE CONSTRUCTED ACCORDING TO STANDARD CONSTRUCTION DRAWING RM-1.1.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE MASH 2016 TYPE E TANGENETIAL END TREATMENTS FOR TYPE MGS GUARDRAIL AS LISTED UNDER "PRODUCTS ACCEPTED FOR NEW INSTALLATIONS" ON THE ROADWAY APPROVED PRODUCTS LIST POSTED ON ROADWAY ENGINEERING'S WEB PAGE. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. REFER TO THE POSTED SHOP DRAWINGS FOR THE MOST CURRENT APPROVED PRODUCT MODELS.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH SOLID FLUORESCENT YELLOW REBOUNDABLE RETROREFLECTIVE SHEETING, PER CMS 730.191.

WHEN THE FACE OF THE ADJACENT (ATTACHED) GUARDRAIL IS LESS THAN 4' OFFSET FROM THE PROPOSED EDGE LINE, AND PERMITTING SITE CONDITIONS EXIST: THE PROPOSED TYPE E ANCHOR ASSEMBLY SHALL BE INSTALLED AT A CONSISTENT FLARE RATE THROUGH THE FULL LENGTH OF THE SYSTEM. THE FLARE RATE SHALL BE A MAXIMUM OF 25:1 (RESULTING IN A 2' OFFSET). THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE SHOP DRAWINGS, PRODUCT INSTALLATION INSTALLATION MANUAL/GUIDANCE, AND AS DIRECTED BY THE ENGINEER.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

PAVING AT RAILROAD CROSSING

WORK THE CROWN OUT OF THE PROPOSED PAVEMENT ON EACH SIDE OF THE RAILROAD CROSSING, BEGINNING 50 FEET FROM THE NEAREST RAIL, BY RAISING THE EDGES OF THE NEW PAVEMENT TO MEET THE PLATFORM ELEVATION.

IF ANY ISSUE OR INCIDENT OCCURS WITHIN CSXT ROW, PLEASE CONTACT THE CSXT PUBLIC SAFETY COORDINATION CENTER AT 800-232-0144.



SHEET NUMBER							PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
6	7	8	11	12	13	14	01/STR	02/NFA						
			5,625				4,425	1,200	202	38000	5,625	FT	ROADWAY	
			7				1	6	202	42000	7	EACH	ANCHOR ASSEMBLY REMOVED, TYPE A	
			2				1	1	202	42010	2	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E	
			12				9	3	202	42040	12	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T	
			2				1	1	209	15050	2	MILE	RESHAPING UNDER GUARDRAIL	
18				6	3	1	4	6	209	60500	10	MILE	LINEAR GRADING	
							7	11	209	72050	18	MILE	PREPARING SUBGRADE FOR SHOULDER PAVING	
			1,138				988	150	606	15050	1,138	FT	GUARDRAIL, TYPE MGS	
			4,375				3,437.5	937.5	606	15100	4,375	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS	
			8				2	6	606	26150	8	EACH	ANCHOR ASSEMBLY, MGS TYPE E	
8			13				9	4	606	26550	13	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
							8		623	39600	8	EACH	MONUMENT ASSEMBLY RECONSTRUCTED TO GRADE	
													EROSION CONTROL	
			302				229	73	659	00300	302	CY	TOPSOIL	
			2,717				2,061	656	659	10000	2,717	SY	SEEDING AND MULCHING	
			136				103	33	659	14000	136	SY	REPAIR SEEDING AND MULCHING	
			136				103	33	659	15000	136	SY	INTER-SEEDING	
			1				0.5	0.5	659	20000	1	TON	COMMERCIAL FERTILIZER	
			15				11	4	659	35000	15	MGAL	WATER	
11							1,000		832	30000	1,000	EACH	EROSION CONTROL	
													DRAINAGE	
							11		611	98630	11	EACH	CATCH BASIN ADJUSTED TO GRADE	
			12				7	5	611	99654	12	EACH	MANHOLE ADJUSTED TO GRADE	
													PAVEMENT	
1,573				17				17	252	01001	17	SY	FULL DEPTH RIGID PAVEMENT REMOVAL AND FLEXIBLE REPLACEMENT, AS PER PLAN	6
							772	801	253	02000	1,573	CY	PAVEMENT REPAIR	
					43,242		43,242		254	01000	43,242	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1 3⁄4"	
				81,377		17,937	17,937	81,377	254	01000	99,314	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 3 1⁄4"	
				13,834	3,676	3,050	6,726	13,834	407	10000	20,560	GAL	TACK COAT	
29				3,391	2,103	748	2,859	3,412	442	10000	6,271	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)	
				3,956		872	872	3,956	442	10080	4,828	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	
				1,113	519	161	680	1,113	617	10100	1,793	CY	COMPACTED AGGREGATE	
						2,651	2,651		618	40800	2,651	FT	RUMBLE STRIPES, EDGE LINE (ASPHALT CONCRETE)	
						1,326	1,326		618	40900	1,326	FT	RUMBLE STRIPES, CENTER LINE (ASPHALT CONCRETE)	
						4,341	4,341		874	20000	4,341	FT	LONGITUDINAL JOINT PREPARATION	
				7,513	4,666		4,666	7,513	875	10000	12,179	LB	LONGITUDINAL JOINT ADHESIVE	
													WATER WORK	
			10				10		638	10800	10	EACH	VALVE BOX ADJUSTED TO GRADE	
													TRAFFIC CONTROL	
			494				201	293	621	00100	494	EACH	RPM	
			494				201	293	621	54000	494	EACH	RAISED PAVEMENT MARKER REMOVED	
			81				57	24	626	00116	81	EACH	BARRIER REFLECTOR, TYPE 5, BIDIRECTIONAL	
			18				7	11	642	00104	18	MILE	EDGE LINE, 6", TYPE 1	
			10				4	6	642	00300	10	MILE	CENTER LINE, TYPE 1	
			432				432		642	00404	432	FT	CHANNELIZING LINE, 12", TYPE 1	
			480				420	60	642	00630	480	FT	CROSSWALK LINE, 24", TYPE 1	
			156				156		642	00700	156	FT	TRANSVERSE/DIAGONAL LINE, TYPE 1	
			4				2	2	642	01000	4	EACH	RAILROAD SYMBOL MARKING, TYPE 1	
			3				2	1	642	01100	3	EACH	SCHOOL SYMBOL MARKING, 72", TYPE 1	
			480				480		642	01200	480	FT	PARKING LOT STALL MARKING, TYPE 1	
			5				5		642	01300	5	EACH	LANE ARROW, TYPE 1	
			349				299	50	644	00500	349	FT	STOP LINE	

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER

JTP

REVIEWER

JMF 10-13-26

PROJECT ID

101285

SHEET

P.9

TOTAL

14

HEN-18-0.00

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GENERAL SUMMARY

DESIGN AGENCY



DESIGNER

JTP

REVIEWER

JMF 10-13-26

PROJECT ID

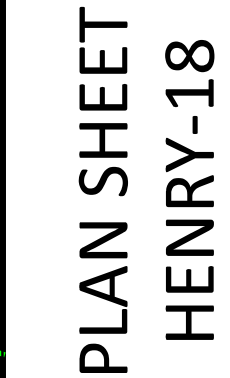
101285

SHEET

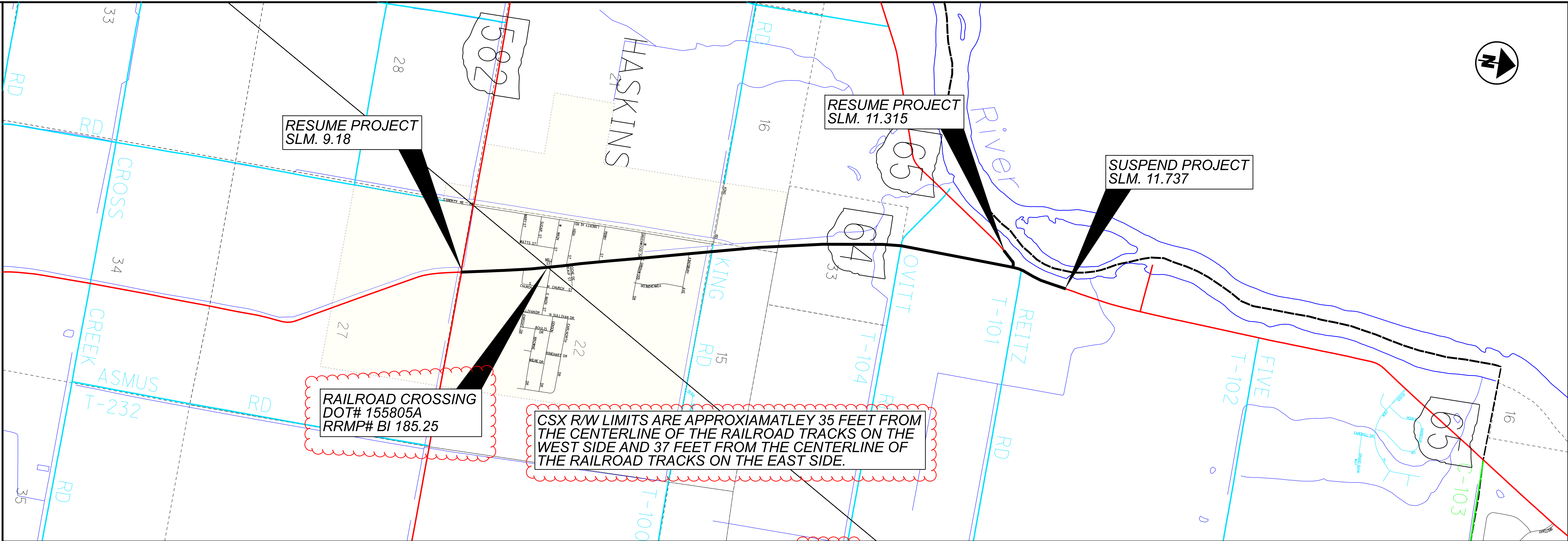
TOTAL

P.1

14



DESIGN AGENCY	
	
DESIGNER	
JTP	
REVIEWER	
JMF	10-13
PROJECT ID	
101285	
SHEET	TOTAL
P.12	14

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DESIGN AGENCY	
	
DESIGNER	
JTP	
REVIEWER	
JMF	10-13-26
PROJECT ID	
101285	
SHEET	TOTAL
P.14	14