SHEET NUM. P.4 P.5 P.7 P.12 01/IMS/04 P.10 P.14 LS LS LS LS LS LS 400 400 132 304 304 224 LS 97 97 12 12 7 1,200 1,200 5,000 1 1 20 60 60 20 20 20 20 20 304 304 132 400 400 224 36 114 704 114 400 304 224 54 126 60 30 4 15 15 15 15 2 2 2 2 LS LS mpalagan tahiila\1193 LS LS LS : 10:33:26 AM USER: n projects\District 04\Ashta LS TIME: stive Pr 10/2025 100 100 D04-BH/CR-FY2025 DATE LS (in.) 6 34x22 LS LS SIZE Ч t-nw

	PART.		ITEN		GRAND			SEE		
4		03/S>2/04	04/STR/04	ITEM	EXT	TOTAL	UNIT	DESCRIPTION	SHEET NO.	
_										1
								ROADWAY		
				201	11001	LS		CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/ STRUCTURES/CULVERTS, (ATB-90-20.849)	P.7	
			LS	201	11001	LS		CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/ STRUCTURES/CULVERTS, (TRU-305-16.860)	P.14	
				201	11001	LS		CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/ STRUCTURES/CULVERTS, (TRU-80-12.115)	P.10	
	LS			201	11001	LS		CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/ STRUCTURES/CULVERTS, (TRU-82-15.260)	P.12	-
				SPECIAL	20270130	400	FT	PIPE CLEANOUT OVER 48", AS PER PLAN, (ATB-90-20.849)	P.7	-
			122		20270120	122	гт		D 14	-
			132	SPECIAL SPECIAL	20270130 20270130	132 304	FT FT	PIPE CLEANOUT OVER 48", AS PER PLAN, (TRU-305-16.860) PIPE CLEANOUT OVER 48", AS PER PLAN, (TRU-80-12.115)	P.14 P.10	-
	224			SPECIAL	20270130	224	FT FT	PIPE CLEANOUT OVER 48", AS PER PLAN, (TRU-82-15.260)	P.10	-
	227			202	98000	LS		REMOVAL MISC.: CHANNEL CLEANOUT, (ATB-90-20.849)	P.7	-
_			LS	202	98000	LS		REMOVAL MISC.: CHANNEL CLEANOUT, (TRU-305-16.860)	P.14	
				202	98000	LS		REMOVAL MISC.: CHANNEL CLEANOUT, (TRU-80-12.115)	P.10	
	LS			202	98000	LS		REMOVAL MISC.: CHANNEL CLEANOUT, (TRU-82-12.260)	P.12	
				503	21300	LS		UNCLASSIFIED EXCAVATION, (ATB-90-20.849)		-
			LS	503	21300	LS		UNCLASSIFIED EXCAVATION, (TRU-305-16.860)		
				503	21300	LS		UNCLASSIFIED EXCAVATION, (TRU-80-12.115)		4
	LS			503	21300	LS		UNCLASSIFIED EXCAVATION, (TRU-82-15.260)		
_				SPECIAL	69091000	LS		AS-BUILT CONSTRUCTION PLANS	P.4	RY
					55651000					
								EROSION CONTROL		NMMA
				601	32004	97	СҮ	ROCK CHANNEL PROTECTION, TYPE A WITH GEOTEXTILE FABRIC		ΙΣ
			7	601	32104	19	СҮ	ROCK CHANNEL PROTECTION, TYPE B WITH GEOTEXTILE FABRIC		
				659	10000	1,200	SY	SEEDING AND MULCHING		S
				832	30000	5,000	EACH	EROSION CONTROL		AL
										ER
				602	20000	1	СҮ	DRAINAGE CONCRETE MASONRY		N N
	10	10	20	605	13300	1 60	FT	6" UNCLASSIFIED PIPE UNDERDRAINS		E N
	10	10	20	605	31100	60	FT	AGGREGATE DRAINS		U U
				611	06100	20	FT	15" CONDUIT, TYPE C, 707.33		
				611	07600	20	FT	18" CONDUIT, TYPE C, 707.21		
\checkmark	\sim	\sim	\sim	\sim	\sim		\sim	mmmmm		
				837	10000	304	FT	LINER PIPE, 48", 707.35, 707.75, 707.85		_
			132	837	10000	132	FT	LINER PIPE, 54", 707.35, 707.75, 707.85		
	224			837	10000	400	FT	LINER PIPE, 54", 707.85		-
<u>ک</u>	224		132	837 1837	10000	224 1,060	FT Trepus	LINER PIPE, 84", 707.35, 707.75, 707.85		-
	126		36	843	50000	276	SF	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR		-
	120		50	045	50000	270	51			-
								TRAFFIC CONTROL		
	15		15	630	02100	60	FT	GROUND MOUNTED SUPPORT, NO. 2 POST		
	2		2	630	80100	8	SF	SIGN, FLAT SHEET		_
										4
_				ГОЭ	11100			RETAINING WALLS (XXX)		1
			LS	503 503	11100 11100	LS LS		COFFERDAMS AND EXCAVATION BRACING, (ATB-90-20.849) COFFERDAMS AND EXCAVATION BRACING, (TRU-305-16.860)		1
_			LJ	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING, (TRU-305-16.860)		1
	LS			503	11100	LS		COFFERDAMS AND EXCAVATION BRACING, (TRO-80-12.113)	P.12	1
										1
								STRUCTURE REPAIRS]
-								FOR ATB-307-16.531 ESTIMATED QUANTITIES	P.20	
								FOR MAH-170-5.903 ESTIMATED QUANTITIES	P.20	
				1						
										DESIGN AGENCY
				C1 /	11110	100				DESIGN AGENCY
				614	11110	100	HOUR	MAINTENANCE OF TRAFFIC LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE		DESIGN AGENCY
				614	11110	100	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE		
				614	11110	100 	HOUR			
							HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE INCIDENTALS		DESIGN AGENCY
				614	11000	LS		LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE INCIDENTALS MAINTAINING TRAFFIC		
				614 619	11000 16010	LS 6		LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE INCIDENTALS MAINTAINING TRAFFIC FIELD OFFICE, TYPE B		DESIGNER
				614 619 623	11000 16010 10000	LS 6 LS		LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE INCIDENTALS MAINTAINING TRAFFIC FIELD OFFICE, TYPE B CONSTRUCTION LAYOUT STAKES AND SURVEYING		
				614 619 623	11000 16010 10000	LS 6 LS		LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE INCIDENTALS MAINTAINING TRAFFIC FIELD OFFICE, TYPE B CONSTRUCTION LAYOUT STAKES AND SURVEYING		DESIGNER NKF REVIEWER MJP 04-01-24
				614 619 623	11000 16010 10000	LS 6 LS		LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE INCIDENTALS MAINTAINING TRAFFIC FIELD OFFICE, TYPE B CONSTRUCTION LAYOUT STAKES AND SURVEYING		DESIGNER NKF REVIEWER MJP 04-01-24 PROJECT ID
				614 619 623	11000 16010 10000	LS 6 LS		LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE INCIDENTALS MAINTAINING TRAFFIC FIELD OFFICE, TYPE B CONSTRUCTION LAYOUT STAKES AND SURVEYING		DESIGNER NKF REVIEWER MJP 04-01-24

ITEM 503 - UNCLASSIFIED EXCAVATION

EXISTING PLANS

EXISTING PLANS ENTITLED TRU-I-80-8.90 (1963) MAY BE FOUND ON ODOT'S FTP SITE AT THE FOLLOWING ADDRESS:

https://ftp.dot.state.oh.us/pub/contracts/Attach/

ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN, **AROUND BRIDGES/STRUCTURES/CULVERTS** (TRU-80-12.115)

ALTHOUGH NO TREES OR STUMPS ARE SPECIFICALLY MARKED FOR REMOVAL WITHIN THE PLANS, A LUMP SUM QUANTITY IS INCLUDED IN THE STRUCTURE GENERAL SUMMARY FOR ITEM 201 – CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS. SCALPING IS NOT REQUIRED FOR THIS ITEM OF WORK. ALL VEGETATION SHALL BE REMOVED WITHIN 15 FEET (OR TO THE R/W LIMITS, WHICHEVER IS CLOSER) OF THE HEADWALLS, ABUTMENTS AND/OR PIERS.

ALL OTHER PROVISIONS AS SET FORTH IN THE CMS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 201 – CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS.

ITEM 202 - REMOVAL MISC.: CHANNEL CLEANOUT (TRU-80-12.115)

THIS WORK WILL CONSIST OF RE-ESTABLISHING THE ORIGINAL CHANNEL PROFILE BY REMOVING SEDIMENT BUILDUP, VEGETATION, AND DEBRIS FROM THE EXISTING CHANNEL WITHIN STATE RIGHT-OF-WAY LIMITS AS SPECIFIED IN THE PLANS FOR CONDUIT TRU-80-12.115. ANY TREES LOCATED WITHIN CHANNEL OR BANK LIMITS WILL BE INCLUDED UNDER ITEM 201, CLEARING AND GRUBBING. ALL MATERIALS REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH 105.16 AND 105.17 OF THE CMS WITH THE APPROVAL OF THE ENGINEER. NO AREAS OF EXISTING CHANNEL PROTECTION SHALL BE REMOVED IN ORDER TO RESTORE THE ORIGINAL CHANNEL PROFILE. AFFECTED CHANNEL AREAS SHALL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER.

CHANNEL CLEANOUT WILL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM 202 REMOVAL MISC.: CHANNEL CLEANOUT. THIS PRICE WILL INCLUDE THE COST FOR LABOR, EQUIPMENT, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CHANNEL CLEANOUT.

ITEM SPECIAL - PIPE CLEANOUT, AS PER PLAN

THIS WORK CONSISTS OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. DISPOSE OF ALL MATERIAL PER 105.16 AND 105.17. CLEAN OUT TO THE APPROVAL OF THE ENGINEER.

EXISTING FIELD PAVING WILL NEED TO BE PARTIALLY REMOVED TO ALLOW FOR A SNUG FIT OF LINER PIPE.

CLEANOUT OF THE PIPE IS PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL, PIPE CLEANOUT. THIS PRICE INCLUDES THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

THE FOLLOWING LUMP SUM QUANTITY HAS BEEN INCLUDED IN THE PLANS FOR ANY EXCAVATION OR EMBANKMENT THAT MIGHT BE NEEDED TO RECONSTRUCT THE DAMAGED HEADWALL, OUTLET APRON, AND CURRENT EROSION. ALL LABOR, EQUIPMENT AND MATERIALS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 503, UNCLASSIFIED EXCAVATION. man and the second s

ITEM 837 - LINER PIPE (48" DIA., 707.35, 707.75, 707.85)

THIS WORK CONSISTS OF FURNISHING LINER PIPE, FILLING VOIDS AROUND EXISTING CONDUITS, INSTALLING LINER PIPE, AND GROUTING LINER PIPE INTO EXISTING CONDITIONS AS SHOWN ON THE PLANS.

ITEM 503 - COFFERDAMS AND EXCAVATION BRACING (TRU-80-12.115)

THIS ITEM IS FOR THE CONTRACTOR TO USE AS NEEDED. A LUMP SUM QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

പ

20

ЪЧ -

-BH/CR

D04

ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR

THIS WORK CONSISTS OF REMOVING ALL LOOSE AND DISINTEGRATED CONCRETE; PREPARING THE SURFACE; MIXING, PLACING, FINISHING AND CURING OF THE PATCHES IN THE AREAS SHOWN OR NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE WORK SHALL BE PERFORMED UPON CONCRETE COMPONENTS IN ACCORDANCE WITH THESE SPECIFICATIONS, AND IN REASONABLY CLOSE CONFORMITY WITH THE PLANS AND THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

						201	202	SPECIAL	503	*837**	837	843	601	503	
REF NO.	SHEET NO.		STATION TO	STATION		CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/ STRUCTURES/CULVERTS, (TRU-80- 12.115)	REMOVAL MISC.: CHANNEL CLEANOUT, (TRU-80-12.115)	PIPE CLEANOUT OVER 48", AS PER PLAN, (TRU-80-12.115)	UNCLASSIFIED EXCAVATION, (TRU- 80-12.115)	LINER PIPE, 48", 707.35, 707.75, 707.85	BACKFILL FOR LINER PIPE	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR	ROCK CHANNEL PROTECTION, TYPE B WITH GEOTEXTILE FABRIC	COFFERDAMS AND EXCAVATION BRACING, (TRU-80-12.115)	
				1		LS	LS	FT	LS	1 pp	FT	SF	CY	LS	
			ТО												-
R1	P.11	646+42	RT	648+54		LS									-
R2	P.11	646+42	RT	648+54			LS								-
R3	P.11	646+53	RT	648+41	LT			304							-
D1	P.11	646+53	RT	648+41	LT					304	304				-
D1 D2	P.11	648+31		648+62	LT				LS			27			-
D3	P.11	646+58	RT	646+65	RT				LS			27			-
															 DESIGN AGENCY
E1	P.11	646+16	LT	646+73	LT									LS	
E2	P.11	646+38	RT	646+56	RT								12		
															REVIEWER MJP 04-01-24
															PROJECT ID
															119381
															SHEET TOTAL
		GENERAL SUI				LS	LS	304	LS	304	304	54	12	LS	P.10 20

CONDUIT IDENTIFICATION SIGNS

CONDUIT IDENTIFICATION SIGNS (I-H25b) WILL BE PLACED ON EACH APPROACH OFF THE RIGHT SHOULDER, FACING TRAFFIC, AND BEHIND THE GUARDRAIL IF APPLICABLE. A QUANTITY OF ONE SIGN PER APPROACH WILL BE INSTALLED. THE SIGNS WILL HAVE A NON-REFLECTIVE WHITE SHEETING BACKGROUND.

THE SIGNS WILL BE MOUNTED ON NEW NO. 2 POSTS AND WILL BE INSTALLED AS PER STANDARD CONSTRUCTION DRAWING TC-41.20, MOST CURRENT REVISION. EACH POST WILL BE 7.5' IN LENGTH.

INSTALL SIGNS FOR THE FOLLOWING CONDUITS: TRU-80-12.115

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED FOR EACH APPROACH:

ITEM 630 – SIGN, FLAT SHEET, 730.20, 1 SQ FT ITEM 630 – GROUND MOUNTED SUPPORT, NO. 2 POST, 7.5 FT

С

-T

2

T

-80

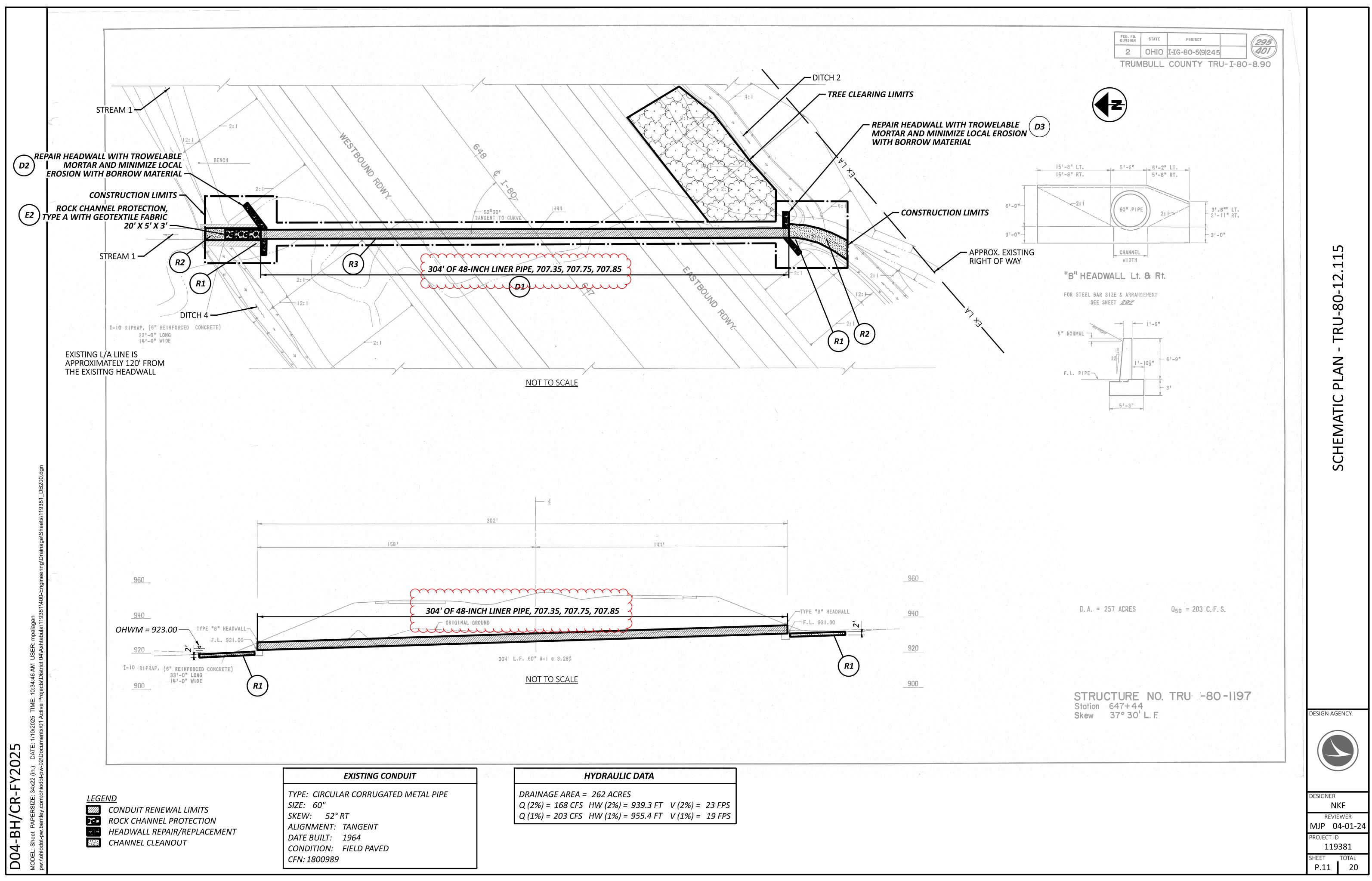
RU.

 \vdash

NOTES

ш

RAINAG



HYDRAULIC DATA	-
DRAINAGE AREA = 262 ACRES	
Q (2%) = 168 CFS HW (2%) = 939.3 FT V (2%) = 23 FPS Q (1%) = 203 CFS HW (1%) = 955.4 FT V (1%) = 19 FPS	

ITEM 503 - UNCLASSIFIED EXCAVATION

EXISTING PLANS

EXISTING PLANS ENTITLED TRU-82-13.47 (1977) MAY BE FOUND ON ODOT'S FTP SITE AT THE FOLLOWING ADDRESS:

https://ftp.dot.state.oh.us/pub/contracts/Attach/

ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS (TRU-82-15.260)

ALTHOUGH NO TREES OR STUMPS ARE SPECIFICALLY MARKED FOR REMOVAL WITHIN THE PLANS, A LUMP SUM QUANTITY IS INCLUDED IN THE STRUCTURE GENERAL SUMMARY FOR ITEM 201 – CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS. SCALPING IS NOT REQUIRED FOR THIS ITEM OF WORK. ALL VEGETATION SHALL BE REMOVED WITHIN 15 FEET (OR TO THE R/W LIMITS, WHICHEVER IS CLOSER) OF THE HEADWALLS, ABUTMENTS AND/OR PIERS.

ALL OTHER PROVISIONS AS SET FORTH IN THE CMS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 201 – CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS.

ITEM 202 - REMOVAL MISC.: CHANNEL CLEANOUT (TRU-82-15.260)

THIS WORK WILL CONSIST OF RE-ESTABLISHING THE ORIGINAL CHANNEL PROFILE BY REMOVING SEDIMENT BUILDUP, VEGETATION, AND DEBRIS FROM THE EXISTING CHANNEL WITHIN STATE RIGHT-OF-WAY LIMITS AS SPECIFIED IN THE PLANS FOR CONDUIT TRU-82-15.260. ANY TREES LOCATED WITHIN CHANNEL OR BANK LIMITS WILL BE INCLUDED UNDER ITEM 201, CLEARING AND GRUBBING. ALL MATERIALS REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH 105.16 AND 105.17 OF THE CMS WITH THE APPROVAL OF THE ENGINEER. NO AREAS OF EXISTING CHANNEL PROTECTION SHALL BE REMOVED IN ORDER TO RESTORE THE ORIGINAL CHANNEL PROFILE. AFFECTED CHANNEL AREAS SHALL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER.

CHANNEL CLEANOUT WILL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM 202 REMOVAL MISC.: CHANNEL CLEANOUT. THIS PRICE WILL INCLUDE THE COST FOR LABOR, EQUIPMENT, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CHANNEL CLEANOUT.

ITEM SPECIAL - PIPE CLEANOUT, AS PER PLAN

THIS WORK CONSISTS OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. DISPOSE OF ALL MATERIAL PER 105.16 AND 105.17. CLEAN OUT TO THE APPROVAL OF THE ENGINEER.

EXISTING FIELD PAVING WILL NEED TO BE PARTIALLY REMOVED TO ALLOW FOR A SNUG FIT OF LINER PIPE.

CLEANOUT OF THE PIPE IS PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL, PIPE CLEANOUT. THIS PRICE INCLUDES THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

THE FOLLOWING LUMP SUM QUANTITY HAS BEEN INCLUDED IN THE PLANS FOR ANY EXCAVATION OR EMBANKMENT THAT MIGHT BE NEEDED TO RECONSTRUCT THE DAMAGED HEADWALL, OUTLET APRON, AND CURRENT EROSION. ALL LABOR, EQUIPMENT AND MATERIALS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 503, UNCLASSIFIED EXCAVATION.

ITEM 837 - LINER PIPE (84" DIA., 707.35, 707.75 707.85) THIS WORK CONSISTS OF FURNISHING LINER PIPE, FILLING VOIDS AROUND EXISTING CONDUITS, INSTALLING LINER PIPE, AND GROUTING LINER PIPE INTO EXISTING CONDITIONS AS

SHOWN ON THE PLANS.

ITEM 503 - COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN (TRU-82-15.260)

THIS ITEM IS FOR THE CONTRACTOR TO USE AS NEEDED. A LUMP SUM QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

PLEASE NOTE THIS LOCATION WILL NEED TO BE DEWATERED. THE CONDUIT IS PARTIALLY SUBMERGED AT ALL TIMES.

പ

20

ЪЧ -

-BH/CR

D04

ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR

THIS WORK CONSISTS OF REMOVING ALL LOOSE AND DISINTEGRATED CONCRETE; PREPARING THE SURFACE; MIXING, PLACING, FINISHING AND CURING OF THE PATCHES IN THE AREAS SHOWN OR NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE WORK SHALL BE PERFORMED UPON CONCRETE COMPONENTS IN ACCORDANCE WITH THESE SPECIFICATIONS, AND IN REASONABLY CLOSE CONFORMITY WITH THE PLANS AND THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

						004			500	007	007	500	0.40	
REF NO.	SHEET NO.		STATION T	O STATION		CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/ STRUCTURES/CULVERTS, (TRU-82- 15.260)	REMOVAL MISC.: CHANNEL CLEANOUT, R0 (TRU-82-12.260)	PIPE CLEANOUT OVER 48", AS PER PLAN, (TRU-82-15.260)	UNCLASSIFIED EXCAVATION, (TRU-82- 15.260)	LINER PIPE, 84", 707.35, 707.75, 707.85	BACKFILL FOR LINER PIPE	COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN, (TRU-82- 15.260)	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR	
						LS	LS	FT	LS	FT	FT	LS	SF	
	D 12	700+95												-
R1 R2	P.13 P.13	790+85 790+85	RT RT	791+56	LT LT	LS	LS							-
R3	P.13	790+96	RT	791+45	LT			224						-
														-
D1	P.13	790+92	RT	791+09	RT				LS	00.4	00.4		63	
D2 D3	P.13 P.13	790+96 791+31	RT LT	791+45	LT LT				LS	224	224		63	
00	1.10	701-01		731143					LU				00	DESIGN AGENCY
E1	P.13	790+85	RT	791+15	RT							LS		
														DESIGNER
														NKF
														REVIEWER MJP 04-01-2
														PROJECT ID
														119381
		GENERAL SUI				LS	LS	224	LS	224	224	LS	126	SHEET TOTAL P.12 20

CONDUIT IDENTIFICATION SIGNS

CONDUIT IDENTIFICATION SIGNS (I-H25b) WILL BE PLACED ON EACH APPROACH OFF THE RIGHT SHOULDER, FACING TRAFFIC, AND BEHIND THE GUARDRAIL IF APPLICABLE. A QUANTITY OF ONE SIGN PER APPROACH WILL BE INSTALLED. THE SIGNS WILL HAVE A NON-REFLECTIVE WHITE SHEETING BACKGROUND.

THE SIGNS WILL BE MOUNTED ON NEW NO. 2 POSTS AND WILL BE INSTALLED AS PER STANDARD CONSTRUCTION DRAWING TC-41.20, MOST CURRENT REVISION. EACH POST WILL BE 7.5' IN LENGTH.

INSTALL SIGNS FOR THE FOLLOWING CONDUITS: TRU-82-15.260

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED FOR EACH APPROACH:

ITEM 630 – SIGN, FLAT SHEET, 730.20, 1 SQ FT ITEM 630 – GROUND MOUNTED SUPPORT, NO. 2 POST, 7.5 FT

260

С

-

-82

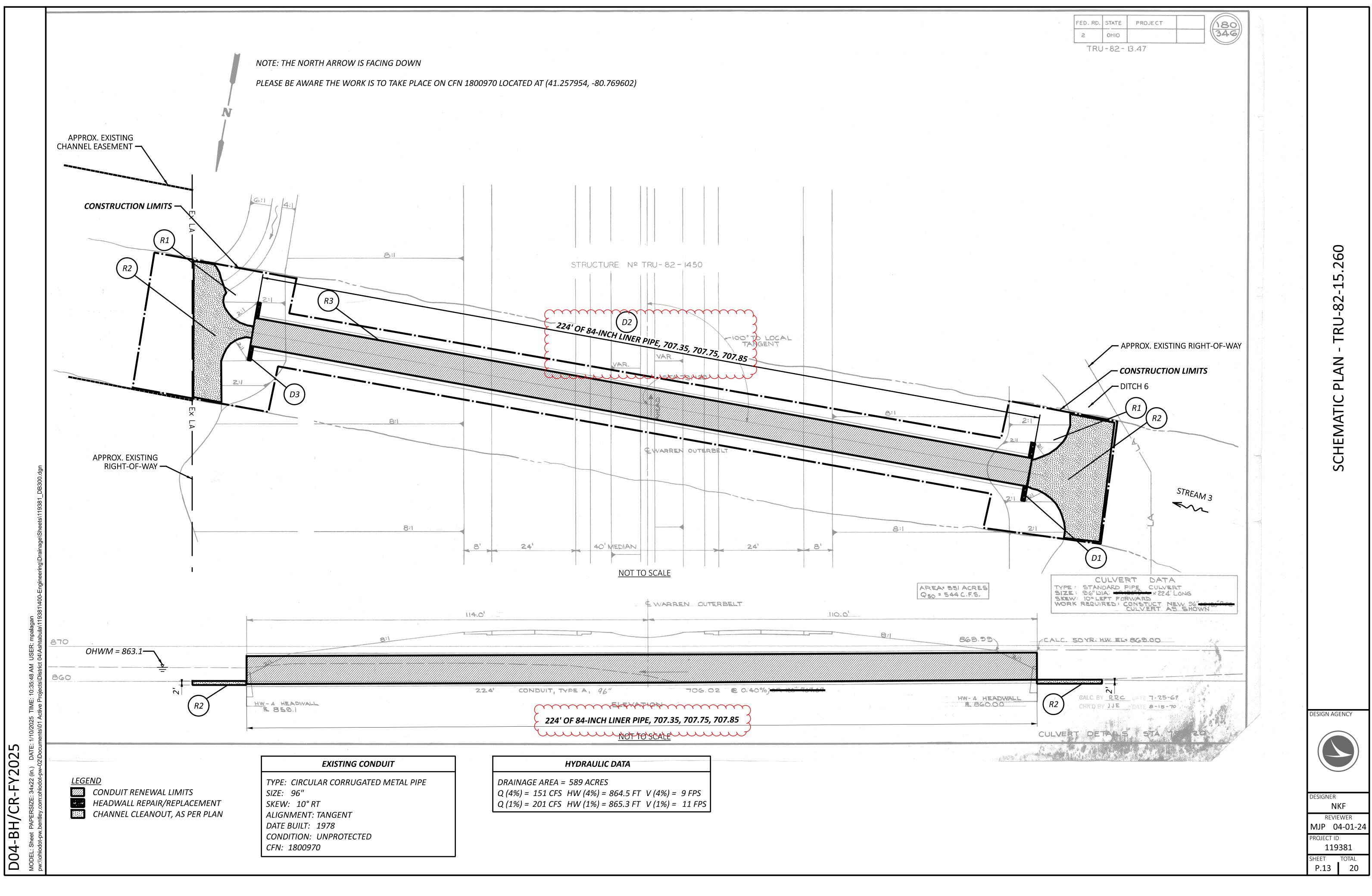
RU

 \vdash

NOTES

ш

RAINAG



EXISTING PLANS

EXISTING PLANS ENTITLED TRU-11-(15.35)(16.04) (1973) MAY BE FOUND ON ODOT'S FTP SITE AT THE FOLLOWING ADDRESS:

https://ftp.dot.state.oh.us/pub/contracts/Attach/

ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS (TRU-305-16.860)

ALTHOUGH NO TREES OR STUMPS ARE SPECIFICALLY MARKED FOR REMOVAL WITHIN THE PLANS, A LUMP SUM QUANTITY IS INCLUDED IN THE STRUCTURE GENERAL SUMMARY FOR ITEM 201 – CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS. SCALPING IS NOT REQUIRED FOR THIS ITEM OF WORK. ALL VEGETATION SHALL BE REMOVED WITHIN 15 FEET (OR TO THE R/W LIMITS, WHICHEVER IS CLOSER) OF THE HEADWALLS, ABUTMENTS AND/OR PIERS.

ALL OTHER PROVISIONS AS SET FORTH IN THE CMS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 201 – CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS.

ITEM 202 - REMOVAL MISC.: CHANNEL CLEANOUT (TRU-305-16.860)

THIS WORK WILL CONSIST OF RE-ESTABLISHING THE ORIGINAL CHANNEL PROFILE BY REMOVING SEDIMENT BUILDUP, VEGETATION, AND DEBRIS FROM THE EXISTING CHANNEL WITHIN STATE RIGHT-**OF-WAY LIMITS AS SPECIFIED IN THE PLANS FOR CONDUIT** TRU-305-16.860. ANY TREES LOCATED WITHIN CHANNEL OR BANK LIMITS WILL BE INCLUDED UNDER ITEM 201, CLEARING AND GRUBBING. ALL MATERIALS REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH 105.16 AND 105.17 OF THE CMS WITH THE APPROVAL OF THE ENGINEER. NO AREAS OF EXISTING CHANNEL PROTECTION SHALL BE REMOVED IN ORDER TO RESTORE THE ORIGINAL CHANNEL PROFILE. AFFECTED CHANNEL AREAS SHALL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER.

CHANNEL CLEANOUT WILL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM 202 REMOVAL MISC.: CHANNEL CLEANOUT. THIS PRICE WILL INCLUDE THE COST FOR LABOR, EQUIPMENT, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CHANNEL CLEANOUT.

ITEM SPECIAL - PIPE CLEANOUT, AS PER PLAN

THIS WORK CONSISTS OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. DISPOSE OF ALL MATERIAL PER 105.16 AND 105.17. CLEAN OUT TO THE APPROVAL OF THE ENGINEER.

EXISTING FIELD PAVING WILL NEED TO BE PARTIALLY REMOVED TO ALLOW FOR A SNUG FIT OF LINER PIPE.

CLEANOUT OF THE PIPE IS PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL, PIPE CLEANOUT. THIS PRICE INCLUDES THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

ITEM 503 - UNCLASSIFIED EXCAVATION

THE FOLLOWING LUMP SUM QUANTITY HAS BEEN INCLUDED IN THE PLANS FOR ANY EXCAVATION OR EMBANKMENT THAT MIGHT BE NEEDED TO RECONSTRUCT THE DAMAGED HEADWALL, OUTLET APRON, AND CURRENT EROSION. ALL LABOR, EQUIPMENT AND MATERIALS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 503, UNCLASSIFIED EXCAVATION.

ITEM 837 - LINER PIPE (54" DIA., 707.35, 707.75, 707.85) THIS WORK CONSISTS OF FURNISHING LINER PIPE, FILLING VOIDS AROUND EXISTING CONDUITS, INSTALLING LINER PIPE, AND GROUTING LINER PIPE INTO EXISTING CONDITIONS AS

SHOWN ON THE PLANS.

ITEM 503 - COFFERDAMS AND EXCAVATION BRACING (TRU-305-16.860)

THIS ITEM IS FOR THE CONTRACTOR TO USE AS NEEDED. A LUMP SUM QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

പ

20

CR-FY

-BH/

DO

ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR

THIS WORK CONSISTS OF REMOVING ALL LOOSE AND DISINTEGRATED CONCRETE; PREPARING THE SURFACE; MIXING, PLACING, FINISHING AND CURING OF THE PATCHES IN THE AREAS SHOWN OR NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE WORK SHALL **BE PERFORMED UPON CONCRETE COMPONENTS IN ACCORDANCE** WITH THESE SPECIFICATIONS, AND IN REASONABLY CLOSE CONFORMITY WITH THE PLANS AND THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

CONDUIT IDENTIFICATION SIGNS

CONDUIT IDENTIFICATION SIGNS (I-H25b) WILL BE PLACED ON EACH APPROACH OFF THE RIGHT SHOULDER, FACING TRAFFIC, AND BEHIND THE GUARDRAIL IF APPLICABLE. A QUANTITY OF ONE SIGN PER APPROACH WILL BE INSTALLED. THE SIGNS WILL HAVE A NON-REFLECTIVE WHITE SHEETING BACKGROUND.

THE SIGNS WILL BE MOUNTED ON NEW NO. 2 POSTS AND WILL BE INSTALLED AS PER STANDARD CONSTRUCTION DRAWING TC-41.20. MOST CURRENT REVISION. EACH POST WILL BE 7.5' IN LENGTH

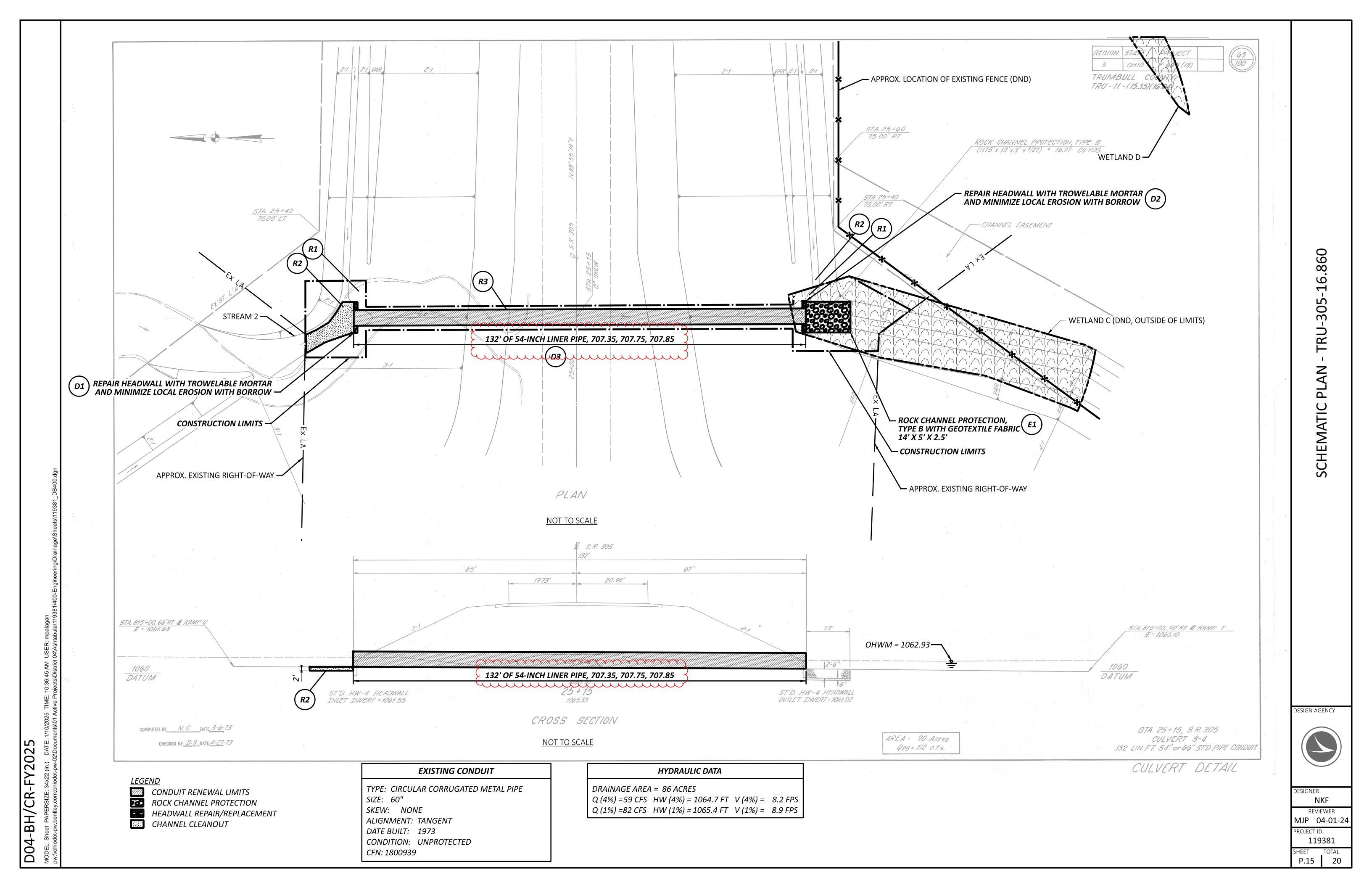
INSTALL SIGNS FOR THE FOLLOWING CONDUITS: TRU-305-16.860

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED FOR EACH **APPROACH**:

ITEM 630 – SIGN, FLAT SHEET, 730.20, 1 SQ FT ITEM 630 – GROUND MOUNTED SUPPORT, NO. 2 POST, 7.5 FT

	1											r				5
						201	202	SPECIAL	503	837	837	503	843	601		_
REF NO.	SHEET NO.		STATION TO	STATION		CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/ STRUCTURES/CULVERTS, (TRU-305- 16.860) REMOVAL MISC.: CHANNEL CLEANOUT, (TRU-305-16.860)	PIPE CLEANOUT OVER 48", AS PER PLAN, (TRU-305-16.860)	UNCLASSIFIED EXCAVATION, (TRU 305-16.860)	LINER PIPE, 54", 707.35, 707.75, 707.85	BACKFILL FOR LINER PIPE	COFFERDAMS AND EXCAVATION BRACING, (TRU-305-16.860)	STRUCTURES WITH TROWELABLE MORTAR	ROCK CHANNEL PROTECTION, TYPE B WITH GEOTEXTILE FABRIC			
				1		LS	LS	FT	LS	FT	FT	LS	SF	CY		
			TO													
R1	P.15	25+03		25+28	RT	LS										
R2	P.15	25+03		25+28			LS	100								
R3	P.15	25+15	LT	25+15	RT			132								
D1	P.15	25+11	LT	25+20	LT				LS				18			
D2	P.15	25+11	RT	25+20	RT								18			
D3	P.15	25+15	LT	25+15	RT					132	132					
E1	P.15	25+11	RT	25+20	RT									7	DESIGN AGE	ENCY
E2	P.15	25+03	LT	25+26	LT							LS				
															DESIGNER	
															NK	٢F
															REVIE	
															MJP 04	
															PROJECT ID	
															1193	
																TOTAL
TOTALS C	CARRIED TO (GENERAL SU	MMARY			LS	LS	132	LS	132	132	LS	36	7	 P.14	20

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS	
THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE	
INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO	
TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT	
MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 150	
FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION	
EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION	
WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND	
ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO	
ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING	
SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL	
BE REQUIRED TO SUBMIT FORM 7460-1 TO THE FAA. NOTIFY THE ODOT OFFICE OF AVIATION WHEN SUBMITTING FAA	
FORM 7460-1.	
NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT	
SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE	
FAA APPROVAL AND THE ODOT OFFICE OF AVIATION PERMIT HAS	
BEEN FURNISHED TO THE PROJECT ENGINEER.	860
FEDERAL AVIATION ADMINISTRATION	6.8
SOUTHWEST REGIONAL OFFICE	
OBSTRUCTION EVALUATION GROUP	ப்
10101 HILLWOOD PARKWAY	30
FORT WORTH, TX 76177	
FAX: (817) 222-5920	TRU-305-
HTTP://CEAAA.FAA.GOV	
OHIO DEPARTMENT OF TRANSPORTATION	S.
OFFICE OF AVIATION	
2829 WEST DUBLIN-GRANVILLE ROAD	NOTES
COLUMBUS, OHIO 43235	Ž
OHIO.AIRPORT.PROTECTION@DOT.OHIO.GOV	μ
	RAINAGE
	Ž
	R,



EXISTING PLANS

EXISTING PLANS ENTITLED MAH-170-(5.94)(6.79) (1966) MAY BE FOUND ON ODOT'S FTP SITE AT THE FOLLOWING ADDRESS:

https://ftp.dot.state.oh.us/pub/contracts/Attach/

ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS (MAH-170-5.903)

ALTHOUGH NO TREES OR STUMPS ARE SPECIFICALLY MARKED FOR REMOVAL WITHIN THE PLANS, A LUMP SUM QUANTITY IS INCLUDED IN THE STRUCTURE GENERAL SUMMARY FOR ITEM 201 – CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS. SCALPING IS NOT REQUIRED FOR THIS ITEM OF WORK. ALL VEGETATION SHALL BE REMOVED WITHIN 15 FEET (OR TO THE R/W LIMITS, WHICHEVER IS CLOSER) OF THE HEADWALLS, ABUTMENTS AND/OR PIERS.

ALL OTHER PROVISIONS AS SET FORTH IN THE CMS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 201 – CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS.

ITEM 202 - REMOVAL MISC.: CHANNEL CLEANOUT (MAH-170-5.903)

THIS WORK WILL CONSIST OF RE-ESTABLISHING THE ORIGINAL CHANNEL PROFILE BY REMOVING SEDIMENT BUILDUP, VEGETATION, AND DEBRIS FROM THE EXISTING CHANNEL WITHIN STATE RIGHT-OF-WAY LIMITS AS SPECIFIED IN THE PLANS FOR STRUCTURE MAH-170-5.903. ANY TREES LOCATED WITHIN CHANNEL OR BANK LIMITS WILL BE INCLUDED UNDER ITEM 201, CLEARING AND GRUBBING. ALL MATERIALS REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH 105.16 AND 105.17 OF THE CMS WITH THE APPROVAL OF THE ENGINEER. NO AREAS OF EXISTING CHANNEL PROTECTION SHALL BE REMOVED IN ORDER TO RESTORE THE ORIGINAL CHANNEL PROFILE. AFFECTED CHANNEL AREAS SHALL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER.

CHANNEL CLEANOUT WILL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM 202 REMOVAL MISC.: CHANNEL CLEANOUT. THIS PRICE WILL INCLUDE THE COST FOR LABOR, EQUIPMENT, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CHANNEL CLEANOUT.

ITEM SPECIAL - PIPE CLEANOUT, AS PER PLAN

THIS WORK CONSISTS OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. DISPOSE OF ALL MATERIAL PER 105.16 AND 105.17. CLEAN OUT TO THE APPROVAL OF THE ENGINEER.

EXISTING FIELD PAVING WILL NEED TO BE PARTIALLY REMOVED TO ALLOW FOR A SNUG FIT OF LINER PIPE.

CLEANOUT OF THE PIPE IS PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL, PIPE CLEANOUT. THIS PRICE INCLUDES THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

ITEM 503 - UNCLASSIFIED EXCAVATION

THE FOLLOWING LUMP SUM QUANTITY HAS BEEN INCLUDED IN THE PLANS FOR ANY EXCAVATION OR EMBANKMENT THAT MIGHT BE NEEDED TO RECONSTRUCT THE DAMAGED HEADWALL, OUTLET APRON, AND CURRENT EROSION. ALL LABOR, EQUIPMENT AND MATERIALS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 503, UNCLASSIFIED EXCAVATION.

ITEM 837 - LINER PIPE (96" DIA., 707.35, 707.75, 707.85)

THIS WORK CONSISTS OF FURNISHING LINER PIPE, FILLING VOIDS AROUND EXISTING CONDUITS, INSTALLING LINER PIPE, AND GROUTING LINER PIPE INTO EXISTING CONDITIONS AS SHOWN ON THE PLANS.

ITEM 503 - COFFERDAMS AND EXCAVATION BRACING (MAH-170-5.903)

THIS ITEM IS FOR THE CONTRACTOR TO USE AS NEEDED. A LUMP SUM QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 843 - PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR

THIS WORK CONSISTS OF REMOVING ALL LOOSE AND DISINTEGRATED CONCRETE; PREPARING THE SURFACE; MIXING, PLACING, FINISHING AND CURING OF THE PATCHES IN THE AREAS SHOWN OR NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE WORK SHALL BE PERFORMED UPON CONCRETE COMPONENTS IN ACCORDANCE WITH THESE SPECIFICATIONS, AND IN REASONABLY CLOSE CONFORMITY WITH THE PLANS AND THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

25

D04-BH/CR-FY20

STRUCTURE IDENTIFICATION SIGNS

STRUCTURE IDENTIFICATION SIGNS (I-H25b) WILL BE PLACED ON EACH APPROACH OFF THE RIGHT SHOULDER, FACING TRAFFIC, AND BEHIND THE GUARDRAIL IF APPLICABLE. A QUANTITY OF ONE SIGN PER APPROACH WILL BE INSTALLED. THE SIGNS WILL HAVE A NON-REFLECTIVE WHITE SHEETING BACKGROUND.

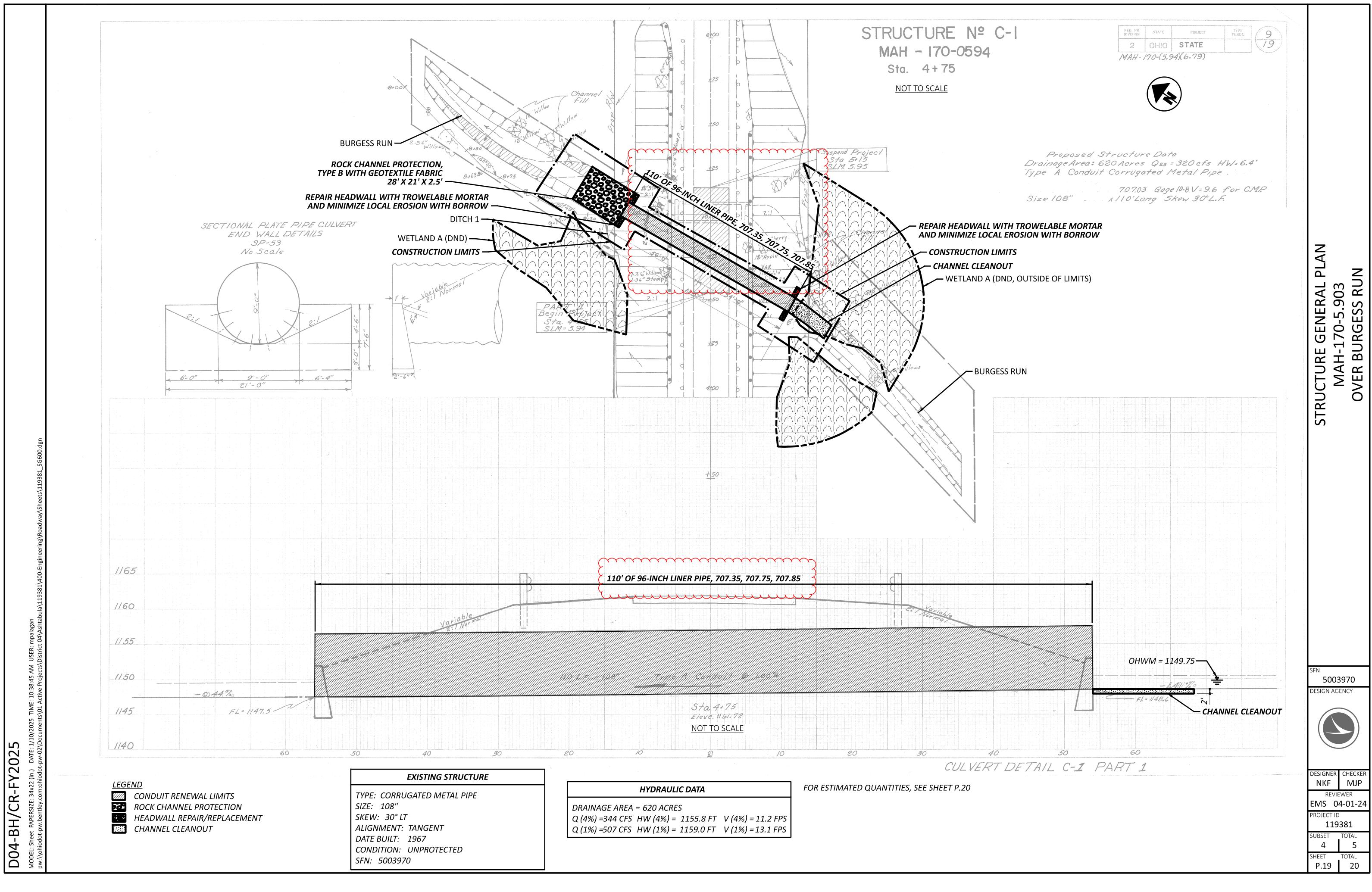
THE SIGNS WILL BE MOUNTED ON NEW NO. 2 POSTS AND WILL BE INSTALLED AS PER STANDARD CONSTRUCTION DRAWING TC-41.20, MOST CURRENT REVISION. EACH POST WILL BE 7.5' IN LENGTH.

INSTALL SIGNS FOR THE FOLLOWING STRUCTURES: MAH-170-5.903

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED FOR EACH APPROACH:

ITEM 630 - SIGN, FLAT SHEET, 730.20, 1 SQ FT ITEM 630 - GROUND MOUNTED SUPPORT, NO. 2 POST, 7.5 FT

STRUCTURE GENERAL NOTES MAH-170-5.903 OVER BURGESS RUN	
SFN 5003970 DESIGN AGENCY DESIGN AGENCY DESIGNER NKF CHECKER MJP REVIEWER EMS 04-01-24 PROJECT ID 119381 SUBSET TOTAL 3 5 SHEET TOTAL 3 5	



25
202
FΥ
CR-
J/H
-Bł
04
Δ

USE DATE: 1/10/2025 TIME: 10:39:33 AM -pw-02\Documents\01 Active Proiecte\ : 34x22 (in.) ZE:

							E	STIMATE	DQUANTITIES
		BRIDG	E NO. / ST	RUCTURE	FILE NO.				
ATB-307-16.531 0406007 04/STR/04	MAH-170-5.903 5003970 03/S>2/47					ITEM	EXTENSION	UNIT	DESCRIPTION
LS						201	11001	LS	CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS, (ATB-307-16.531)
	LS					201	11001	LS	CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS, (MAH-170-5.903)
32						SPECIAL	20270110	FT	PIPE CLEANOUT, 24" AND UNDER, (ATB-307-16.531)
206						SPECIAL	20270130	FT	PIPE CLEANOUT OVER 48", (ATB-307-16.531)
	110					SPECIAL	20270130	FT	PIPE CLEANOUT OVER 48", AS PER PLAN, (MAH-170-5.903)
LS						202	98000	LS	REMOVAL MISC.: CHANNEL CLEANOUT, (ATB-307-16.531)
	LS					202	98000	LS	REMOVAL MISC.: CHANNEL CLEANOUT, (MAH-170-5.903)
LS						503	11100	LS	COFFERDAMS AND EXCAVATION BRACING, (ATB-307-16.531)
	LS					503	11100	LS	COFFERDAMS AND EXCAVATION BRACING, (MAH-170-5.903)
LS						503	21300	LS	UNCLASSIFIED EXCAVATION, (ATB-307-16.531)
35	LS 55					503 601 601 613	21300 32004 32104 41200	LS CY CY CY	UNCLASSIFIED EXCAVATION, (MAH-170-5.903) ROCK CHANNEL PROTECTION, TYPE A WITH GEOTEXTILE FABRIC ROCK CHANNEL PROTECTION, TYPE B WITH GEOTEXTILE FABRIC LOW STRENGTH MORTAR BACKFILL
15						630	02100	FT	GROUND MOUNTED SUPPORT, NO. 2 POST
	15					630	02100	FT	GROUND MOUNTED SUPPORT, NO. 2 POST
2						630	80100	SF	SIGN, FLAT SHEET, 730.20
	2					630	80100	SF	SIGN, FLAT SHEET, 730.20
2						630	84900	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL
2						630	86002	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL
206						837	10000	FT	LINER RIPE, 11-10"min. X 7-5" min. RISE, 748.06
	110					837	10000	FT	LINER PIPE, 96", 707.35, 707.75, 707.85
32						837	10001	FT	LINER PIPE, AS PER PLAN, 124, 707.85
238						837	21000	FT	BACKFILL FOR LINER PIPE
	110					837	21000	FT	BACKFILL FOR LINER PIPE
15						843	50000	SF	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR
	15					843	50000	SF	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR

CALC: NKF CHECKED: MJP

	OATE: 7/31/2024 OATE: 8/14/2024		
)	SEE SHEET P.16		ED QUANTITIES AH-170-5.903 URGESS RUN
)	P.18 P.16 P.16 P.18 P.18 P.16 P.18 P.16 P.18 P.16 P.18 P.16 P.18		STRUCTURE ESTIMATED QUANTITIES ATB-307-16.531, MAH-170-5.903 OVER ASKUE RUN, BURGESS RUN
	P.16 P.18 P.16 P.16 P.18 P.16 P.18 P.16 P.18 P.16 P.16		STI
	P.16 P.18 P.16 P.16 P.18 P.18 P.18		SEN
			SFN VARIES DESIGN AGENCY DESIGNER CHECKER
			NKFMJPREVIEWEREMSMM-DD-YPROJECT ID119381SUBSETTOTAL55SHEETTOTAL

 SHEET
 TOTAL

 P.20
 20