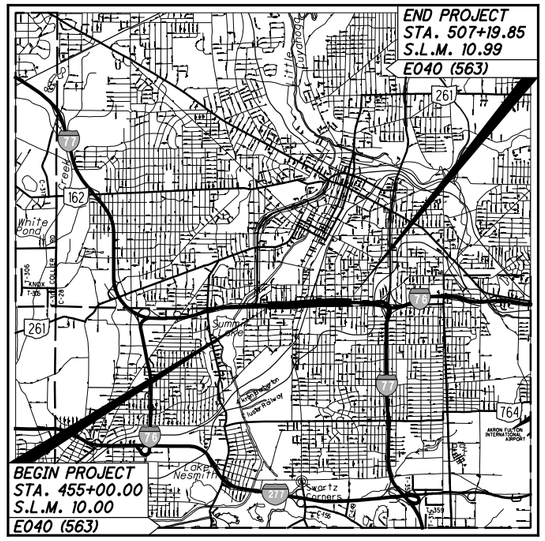

LOCATION MAP

LATITUDE: N41°03'45" LONGITUDE: W81°31'40"

SCALE IN MILES
0 1 2 3 4

N

PORTION TO BE IMPROVED
INTERSTATE HIGHWAY
FEDERAL ROUTES
STATE ROUTES
COUNTY & TOWNSHIP ROADS
OTHER ROADS

DESIGN DESIGNATION

SEE SHEET 3

DESIGN EXCEPTIONS

THORNTON AVENUE

DESIGN FEATURE	APPROVAL DATES	SHEET NUMBERS
VERTICAL ALIGNMENT	NOVEMBER 12, 2014	606 & 608

UNDERGROUND UTILITIES

CONTACT BOTH SERVICES
CALL TWO WORKING DAYS
BEFORE YOU DIG

CALL
1-800-362-2764
(TOLL FREE)

OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

OIL & GAS PRODUCERS UNDERGROUND
PROTECTION SERVICE CALL: **1-800-925-0988**

PLAN PREPARED BY:
URS
564 WHITE POND DRIVE
AKRON, OHIO 44320

ENGINEERS SEAL:

SIGNED:
DATE:

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
SUM-76-10.00
MAIN/BROADWAY INTERCHANGE
CITY OF AKRON, SUMMIT COUNTY

INDEX OF SHEETS:

SEE SHEET 2

REV. BY	DATE	DESCRIPTION
KMK	5/5/16	SCD DATES REVISED
DATE COMPLETED		

STANDARD CONSTRUCTION DRAWINGS										SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS
BP-2.1	7/17/15	MGS-1.1	7/19/13	A-1-69	7/19/02	MT-95.30	7/18/14	TC-7.65	10/18/13	800-2013	1/15/16	
BP-2.2	7/18/08	MGS-2.1	7/19/13	AS-1-81	1/18/13	MT-95.40	7/18/14	TC-9.10	1/17/14	804	1/16/15	
BP-2.3	7/18/14	MGS-2.3	7/18/14	BR-2-98	7/20/12	MT-95.41	7/18/14	TC-12.30	10/18/13	815	1/19/07	
BP-2.5	7/19/13	MGS-3.1	7/18/14	EXJ-4-87	7/19/02	MT-95.50	10/16/15	TC-16.21	10/18/13	816	1/20/12	
BP-3.1	7/18/14	MGS-3.2	1/18/13	GSD-1-96	7/19/02	MT-95.71	7/19/13	TC-21.10	10/18/13	823	7/18/14	
BP-4.1	7/19/13	MGS-4.2	7/19/13	NBS-1-09	7/17/15	MT-98.10	7/18/14	TC-21.20	1/16/15	832	1/17/14	
BP-5.1	7/19/13	MGS-4.3	1/18/13	PCB-91	1/18/13	MT-99.20	7/19/13	TC-21.50	1/15/16	833	7/17/15	
BP-7.1	7/18/14	MGS-5.2	7/19/13	SBR-1-13	1/17/14	MT-100.00	7/19/13	TC-22.10	10/18/13	836	1/18/13	
BP-9.1	7/19/13	MGS-6.1	7/19/13	SBR-2-13	1/17/14	MT-101.60	7/19/13	TC-22.20	1/17/14	839	7/17/15	
		MGS-6.2	1/18/13	SICD-1-96	7/18/14	MT-101.70	1/17/14	TC-41.10	7/19/13	840	7/17/15	
CB-1.1	1/18/13	GR-6.3	1/20/12	SICD-2-14	7/18/14	MT-102.10	7/18/14	TC-41.20	10/18/13	902	12/31/12	
CB-1.2	1/18/13			VPF-1-90	7/17/15	MT-102.20	7/18/14	TC-41.30	10/18/13	904	1/16/15	
CB-2.1	1/18/13	HW-2.1	7/17/15			MT-102.30	10/16/15	TC-41.40	10/18/13	906	10/15/10	
CB-2.2	1/17/14	HW-2.2	7/17/15	HL-10.11	1/17/14			TC-41.41	10/18/13	907	1/20/12	
CB-2.3	1/18/13			HL-10.12	1/17/14			TC-41.50	10/18/13	939	7/17/15	
CB-3.1	1/18/13	I-2.1	1/17/14	HL-10.13	7/17/15			TC-42.10	10/18/13	992	4/18/14	
CB-3.2	1/18/13	I-2.2	1/17/14	HL-10.31	7/17/15			TC-42.20	10/18/13			
CB-4.2	1/18/13	I-2.3	1/17/14	HL-20.11	1/16/15			TC-51.11	1/17/14			
				HL-20.13	1/15/16			TC-51.12	1/17/14			
DM-1.1	1/18/13	LA-1.1	10/15/10	HL-20.14	1/16/15			TC-52.10	10/18/13			
DM-1.2	1/18/13			HL-20.21	1/17/14			TC-52.20	7/18/14			
DM-1.3	7/18/14	MH-1.1	1/18/13	HL-20.24	1/15/16			TC-61.10	1/17/14			
DM-3.1	1/18/13	MH-1.2	1/18/13	HL-30.11	1/16/15			TC-61.30	7/18/14			
DM-4.1	7/19/13	MH-1.3	1/18/13	HL-30.21	1/17/14			TC-65.10	1/17/14			
DM-4.2	7/20/12	MH-3.1	1/18/13	HL-30.22	1/17/14			TC-65.11	7/18/14			
DM-4.3	7/19/13			HL-30.31	1/17/14			TC-71.10	1/17/14			
DM-4.4	7/20/12	RM-1.1	7/18/14	HL-30.32	1/17/14			TC-72.20	7/18/14			
		RM-3.1	7/19/13	HL-30.33	1/17/14			TC-81.21	7/17/15			
F-1.1	7/19/13	RM-4.3	7/18/14	HL-30.41	7/18/14			TC-83.20	7/17/15			
F-2.1	7/19/13	RM-4.4	7/18/14	HL-40.20	1/16/15			TC-85.10	10/18/13			
F-3.1	7/19/13	RM-4.5	7/18/14	HL-50.11	1/16/15			TC-85.20	1/16/15			
F-3.3	7/19/13	RM-4.6	7/19/13	HL-50.21	1/16/15							
F-3.4	7/19/13			HL-60.11	1/17/14							
		WQ-1.1	1/18/13	HL-60.12	1/17/14							
		WQ-1.2	1/18/13	HL-60.21	1/16/15							
				HL-60.31	7/17/15							

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF MAJOR RECONFIGURATION OF AN URBAN INTERCHANGE, IR 76 AND ASSOCIATED ROADWAYS, SOUTH MAIN STREET AND SOUTH BROADWAY STREET. APPROXIMATELY 0.98 MILES OF IR 76, 2.02 MILES OF LOCAL ROADS, AND 9 BRIDGES ARE TO BE RECONSTRUCTED. THIS WORK ALSO CONSISTS OF THE INSTALLATION OF NEW TRAFFIC SIGNALS, NECESSARY TRAFFIC CONTROL DEVICES, INTERCHANGE AND LOCAL STREET LIGHTING, UTILITY RELOCATION, DRAINAGE, RIGHT OF WAY ACQUISITION, AND BUILDING DEMOLITION.

PROJECT EARTH DISTURBED AREA: 75.8 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 2.9 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: N/A*
*RUNOFF IS COLLECTED IN A COMBINED SEWER THEREFORE A NOI IS NOT REQUIRED.

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2013 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE PART-TIME CLOSING OF THE HIGHWAY TO TRAFFIC, AS NOTED ON THE SHEETS 88 TO 105. DURING WHICH TIME DETOURS WILL BE PROVIDED AS SHOWN HEREIN. PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED _____
DATE 12-21-15 DISTRICT DEPUTY DIRECTOR

APPROVED _____
DATE 1-4-16 DIRECTOR, DEPARTMENT OF TRANSPORTATION

APPROVED _____
DATE 8/6/15 BUREAU OF WATER SUPPLY MANAGER

APPROVED _____
DATE 8/6/15 CITY ENGINEER

APPROVED _____
DATE 8/6/15 DIRECTOR OF PUBLIC SERVICE

FEDERAL PROJECT NO. E040 (563)
PID NO. 77269
CONSTRUCTION PROJECT NO.
RAILROAD INVOLVEMENT
CSX TRANSPORTATION
AKRON BARBERTON CLUSTER RAILWAY, INC.
SUM-76-10.00
1
1822

I:\Projects\Main Broadway\ROADWAY\Sheets\77269GT001.dgn 5/5/2016 10:04:07 AM kyle_koppes

ITEM SPECIAL - TACK COAT, TRACKLESS TACK

ITEM SPECIAL - TACK COAT, TRACKLESS TACK FOR INTERMEDIATE COURSE

DESCRIPTION: THIS WORK CONSISTS OF PREPARING AND TREATING A PAVED SURFACE WITH A TRACKLESS TACK ASPHALT EMULSION.

FURNISH MATERIALS ACCORDING TO THE DEPARTMENT'S APPROVED LIST.

MEET ALL REQUIREMENTS OF ITEM 407 TACK COAT IN THE CONSTRUCTION AND MATERIALS SPECIFICATIONS REQUIRED BY THE CONTRACT, EXCEPT AS NOTED BELOW.

MATERIAL: MEET ALL PROPERTIES OF THE APPROVED MANUFACTURER'S TRACKLESS TACK SPECIFICATIONS REQUIREMENTS ON FILE WITH THE LABORATORY AT TIME OF PLACEMENT.

ACCEPTANCE AND SAMPLING OF MATERIALS: SUPPLY CERTIFIED TEST DATA TO THE ENGINEER AND TO THE DISTRICT LABORATORY DEMONSTRATING THE TRACKLESS TACK SUPPLIED WAS TESTED FOR AND MEETS ALL MATERIAL PROPERTIES SHOWN ON THE DEPARTMENT'S APPROVED LIST.

DURING CONSTRUCTION, ODOT PERSONNEL WILL SAMPLE FROM THE DISTRIBUTOR AND SUPPLY TO THE DISTRICT TEST LAB A MINIMUM OF ONE QUART OF TRACKLESS TACK FOR EVERY 25,000 GALLONS USED ON THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING THE PROPER PLASTIC QUART SAMPLING CONTAINER. CLEARLY MARK ON THE SAMPLE WITH THE MANUFACTURER'S NAME, PROJECT NUMBER, AND THE WORDS "TRACKLESS TACK".

EQUIPMENT: FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR CORRECT DISTRIBUTOR SETTINGS. THOROUGHLY CLEAN ALL EQUIPMENT IF PREVIOUSLY USED MATERIAL CHARGE IS DIFFERENT THAN THE PROPOSED MATERIAL.

APPLICATION OF ASPHALT MATERIAL: UNIFORMLY APPLY THE TRACKLESS TACK WITH A DISTRIBUTOR ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. IF TRACKLESS TACK IS STORED FOR AN EXTENDED PERIOD OF TIME, PRIOR TO APPLICATION, AGITATE OR GENTLY CIRCULATE THE MATERIAL.

ENSURE ALL NOZZLES AND SPRAY PATTERNS ARE IDENTICAL TO ONE ANOTHER ALONG THE DISTRIBUTOR SPRAY BAR. PLACE THE ANGLE OF THE NOZZLE AT A 15 TO 30 DEGREE ANGLE TO THE SPRAY BAR AXIS TO MAXIMIZE OVERLAP OR AS RECOMMENDED BY THE NOZZLE MANUFACTURER. CONTACT THE MANUFACTURER'S REPRESENTATIVE FOR REQUIRED SPRAY NOZZLE SIZE AND DISTRIBUTOR AND NOZZLE SETTINGS.

APPLY AT A RATE OF 0.04 TO 0.1 GALLONS PER SQUARE YARD. DO NOT DILUTE TRACKLESS TACK. RECOMMENDED APPLICATION IS 160°F TO 180°F. DO NOT EXCEED 180°F. THE ENGINEER WILL APPROVE THE QUANTITY, RATE OF APPLICATION, TEMPERATURE, DISTRIBUTOR SETTINGS, AND AREAS TO BE TREATED BEFORE APPLICATION OF THE TRACKLESS TACK COAT. THE ENGINEER WILL DETERMINE THE ACTUAL APPLICATION IN GALLONS PER SQUARE YARD BY A CHECK ON THE PROJECT.

PERFORMANCE OF TRACKLESS TACK: DETERMINE THE TIME TO SET FOR THE MATERIAL TO BECOME TRACKLESS. THE ENGINEER WILL REPORT ANY ISSUES WITH EXCESSIVE TIME TO SET, OR AFTER SET ISSUES WITH STICKINESS, OR PICKUP OF THE TACK TO THE DISTRICT TESTING ENGINEER AND NEW PRODUCT ENGINEER, BRAD YOUNG 614-351-2882.

IF THE CERTIFIED TEST DATA FAILS TO MEET THE LAB TESTING CRITERIA, OR FIELD SAMPLES FAIL TO MEET THE LAB TEST CRITERIA, OR THE TRACKLESS TACK FAILS TO PERFORM SATISFACTORILY IN THE FIELD, AS NOTED ABOVE, THE CONTRACTOR WILL BE REQUIRED TO REPLACE AND SUPPLY ANOTHER APPROVED TRACKLESS TACK PRODUCT FOR THE REMAINDER OF THE PROJECT AT NO ADDITIONAL COST TO THE DEPARTMENT.

ANY FAILING TRACKLESS TACK PRODUCT WILL BE REMOVED FROM THE DEPARTMENT'S APPROVED LIST.

ITEM 451 - 9" REINFORCED CONCRETE PAVEMENT , CLASS QC1, AS PER PLAN "B"

THIS ITEM IS FOR USE AT THE INTERSECTIONS TO RECEIVE DECORATIVE CONCRETE PAVEMENT TREATMENT. THE INTERSECTIONS TO RECEIVE THIS TREATMENT ARE AS FOLLOWS:
S. MAIN STREET AT MILLER AVENUE
S. MAIN STREET AT E. THORNTON STREET
E. THORNTON STREET AT RAMP W-5 AND S. BROADWAY STREET.

THIS WORK IS TO PROVIDE STAMPED AND COLORED REINFORCED CONCRETE PAVEMENT FOR THE CROSSWALKS. THE STAMPED PATTERN SHALL BE BRICK RUNNING BOND AND THE COLOR SHALL BE "RED CLAY".

THIS WORK SHALL CONFORM TO ODOT CMS ITEM 451 UNLESS OTHERWISE NOTED HEREIN.

THE INTERSECTION PAVEMENT SHALL BE BOUNDED BY A DECORATIVE CONCRETE HEADER AS SHOWN ON DETAIL SHEET 801 .

FOR CITY'S DECORATIVE PAVEMENT SPEC, SEE SHEET 802 .

THIS ITEM 451 9" REINFORCED CONCRETE PAVEMENT, CLASS QC1, AS PER PLAN "B" WILL BE MEASURED BY THE SQUARE YARD OF FINISHED SURFACE COMPLETE IN PLACE. THE ACCEPTED QUANTITIES OF THIS ITEM WILL BE PAID FOR AT THE CONTRACT PRICES DESIGNATED. THE CONTRACT PRICE SHALL INCLUDE ALL LABOR, MATERIAL EQUIPMENT AND INCIDENTAL ITEMS NEEDED FOR EXCAVATION, BACKFILL, REINFORCING STEEL, EXPANSION JOINT MATERIAL, CONTRACTION JOINTS AND OTHER RELATED MISCELLANEOUS ITEMS WILL NOT BE PAID FOR SEPARATELY, BUT THE COST THEREOF SHALL BE INCLUDED IN THE COST OF THE ITEM OF WHICH THEY ARE A PART. PAYMENT FOR ACCEPTED QUANTITIES WILL BE MADE AT THE CONTRACT PRICE FOR: THIS ITEM 451 9" REINFORCED CONCRETE PAVEMENT, CLASS QC1, AS PER PLAN "B" (SQUARE YARD). THIS ITEM WILL BE PAID 100% CITY OF AKRON COSTS.

ITEM 451 REINFORCED CONCRETE PAVEMENT, MISC.: CONCRETE HEADER

THIS ITEM IS FOR USE AT THE INTERSECTIONS TO RECEIVE DECORATIVE CONCRETE PAVEMENT TREATMENT. THE INTERSECTIONS TO RECEIVE THIS TREATMENT ARE AS FOLLOWS:
S. MAIN STREET AT MILLER AVENUE
S. MAIN STREET AT E. THORNTON STREET
E. THORNTON STREET AT RAMP W-5 AND S. BROADWAY STREET.

THIS WORK IS TO PROVIDE VISABLE PERMANENT DEMARCATION OF THE CROSS WALK AND SHALL BE PROVIDED ON BOTH SIDES OF THE CROSS WALK TO SEPARATE THE CROSS WALK FROM THE "COAL GRAY" COLORED INTERSECTION PAVEMENT AND THE EITHER EXISTING AND / OR ASHPALT OR CONCRETE APPROACH PAVEMENTS.

THIS WORK SHALL CONFORM TO ODOT CMS ITEM 451 UNLESS OTHERWISE NOTED HEREIN.

THIS HEADER SHALL BE IN ACCORDANCE WITH THE DETAILS PROVIDED ON SHEET 801 .

THIS ITEM 451 REINFORCED CONCRETE PAVEMENT, MISC.: CONCRETE HEADER WILL BE MEASURED BY THE SQUARE YARD OF FINISHED SURFACE COMPLETE IN PLACE. THE ACCEPTED QUANTITIES OF THIS ITEM WILL BE PAID FOR AT THE CONTRACT PRICES DESIGNATED. THE CONTRACT PRICE SHALL INCLUDE ALL LABOR, MATERIAL EQUIPMENT AND INCIDENTAL ITEMS NEEDED FOR EXCAVATION, BACKFILL, REINFORCING STEEL, EXPANSION JOINT MATERIAL, CONTRACTION JOINTS AND OTHER RELATED MISCELLANEOUS ITEMS WILL NOT BE PAID FOR SEPARATELY, BUT THE COST THEREOF SHALL BE INCLUDED IN THE COST OF THE ITEM OF WHICH THEY ARE A PART. PAYMENT FOR ACCEPTED QUANTITIES WILL BE MADE AT THE CONTRACT PRICE FOR: THIS ITEM 451 REINFORCED CONCRETE PAVEMENT, MISC.: CONCRETE HEADER (SQUARE YARD). THIS ITEM WILL BE PAID AS 100% COST TO CITY OF AKRON.

FENCE LENGTHS

THE LENGTHS OF FENCE SHOWN IN THE PLANS ARE HORIZONTAL DIMENSIONS. MEASUREMENTS OF THE FINAL QUANTITIES WILL BE IN ACCORDANCE WITH ITEM 607.

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SOIL ANALYSIS TEST	2	EACH
659, TOPSOIL	22034	CY
659, SEEDING AND MULCHING SEE SHEET 328		
659, REPAIR SEEDING AND MULCHING	9925	SY
659, INTER-SEEDING	9925	SY
659, COMMERCIAL FERTILIZER	27.69	TON
659, LIME	41.01	ACRES
659, WATER	1099	M. GAL.
659, MOWING	447	M. SF

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

ITEM 441 - VARIABLE DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448)

THE FOLLOWING QUANTITY IS BEING CARRIED FORWARD TO THE GENERAL SUMMARY FOR USE IN LOCATIONS NOTED ON THE S. MAIN ST. TYPICAL SECTIONS, WHERE PAVEMENT IS BEING PLANED AND THE PROPOSED CROSS-SLOPE IS NOT MATCHING EXISTING: 920 CU. YD.

ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE C, AS PER PLAN

CONCRETE BARRIER, SINGLE SLOPE, TYPE C, SHALL BE CONSTRUCTED AS PER STANDARD DRAWING RM-4.3 EXCEPT THAT A PAVED GUTTER SHALL BE CONSTRUCTED ON THE HIGH SIDE OF THE BARRIER, SEE DETAIL ON SHEET22. ALL MATERIALS AND LABOR REQUIRED FOR THE COMPLETE INSTALLATION, INCLUDING THE 2" PEJF, SHALL BE INCLUDED IN THE UNIT PRICE BID PER FOOT OF ITEM 622 CONCRETE BARRIER, SINGLE SLOPE, TYPE C, AS PER PLAN.

ITEM 622 - CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C, AS PER PLAN

THIS ITEM IS FOR THE END ACHORAGES THAT WILL BE REQUIRED PER ODOT SCD RM-4.3 AND CALLED FOR IN THE CONTRACT DOCUMENTS. ALL REQUIREMENTS OF ITEM 622, CONCRETE BARRIER, SINGLE, SLOPE, TYPE C, AS PER PLAN WILL BE REQUIREMENTS OF ITEM 622, CONCRETE BARRIER, END ANCHORAGE, TYPE C, AS PER PLAN. THE CONTRACT PRICE PER EACH FOR ITEM 622, CONCRETE BARRIER, END ANCHORAGE, TYPE C, AS PER PLAN SHALL INCLUDE ALL LABOR, MATERIAL, EQUIPMENT, AND INCIDENTAL ITEMS NECESSARY FOR THE COMPLETE IN PLACE CONSTRUCTION.

ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN (A)

CONCRETE BARRIER, SINGLE SLOPE, TYPE D, SHALL BE CONSTRUCTED AS PER STANDARD DRAWING RM-4.5 EXCEPT THAT A FOUNDATION SHALL BE ADDED TO THE BASE OF THE BARRIER, SEE DETAIL ON SHEET 843. ALL MATERIALS AND LABOR REQUIRED FOR THE COMPLETE INSTALLATION SHALL BE INCLUDED IN THE UNIT PRICE BID PER FOOT OF ITEM 622 CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN (A).

ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN B

CONCRETE BARRIER, SINGLE SLOPE, TYPE D, SHALL BE CONSTRUCTED AS PER STANDARD DRAWING RM-4.5 EXCEPT THAT 4'X2" DRAINAGE SLOTS SHALL BE INCLUDED, SEE DETAIL ON SHEET843. ALL MATERIALS AND LABOR REQUIRED FOR THE COMPLETE INSTALLATION SHALL BE INCLUDED IN THE UNIT PRICE BID PER FOOT OF ITEM 622 CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN B.

ITEM 622 - CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D, AS PER PLAN

THIS ITEM IS FOR THE END ACHORAGES THAT WILL BE REQUIRED PER ODOT SCD RM-4.5 AND CALLED FOR IN THE CONTRACT DOCUMENTS. ALL REQUIREMENTS OF ITEM 622, CONCRETE BARRIER, SINGLE, SLOPE, TYPE D, AS PER PLAN B WILL BE REQUIREMENTS OF ITEM 622, CONCRETE BARRIER, END ANCHORAGE, TYPE D, AS PER PLAN. THE CONTRACT PRICE PER EACH FOR ITEM 622, CONCRETE BARRIER, END ANCHORAGE, TYPE D, AS PER PLAN SHALL INCLUDE ALL LABOR, MATERIAL, EQUIPMENT, AND INCIDENTAL ITEMS NECESSARY FOR THE COMPLETE IN PLACE CONSTRUCTION.

ITEM 622 - BARRIER TRANSITION, AS PER PLAN

CONTRACTOR SHALL PROVIDE SMOOTH TRANSITION OVER 14 FEET BETWEEN STANDARD SHAPES OF CONCRETE BARRIER, SINGLE SLOPE, TYPE D AND CONCRETE BARRIER, SINGLE SLOPE, TYPE C, AS PER PLAN. CONCRETE DITCH SHALL BE TERMINATED AND BACKSIDE BARRIER GRADING WILL BE PROVIDED WITH POSITIVE DRAINAGE. FOR TRANSITION DETAIL UNDER THE WOLF LEDGES AND GRANT STREET BRIDGES SEE DETAIL ON SHEET 973 & 974 . ALL MATERIALS, EARTHWORK AND LABOR REQUIRED FOR THE COMPLETE INSTALLATION SHALL BE INCLUDED IN THE UNIT PRICE BID PER EACH OF ITEM 622 BARRIER TRANSITION, AS PER PLAN.

ITEM 622 - BARRIER TRANSITION, AS PER PLAN B

CONTRACTOR SHALL PROVIDE SMOOTH TRANSITION OVER THE LENGTH CALLED FOR IN PLAN BETWEEN STANDARD SHAPES OF CONCRETE BARRIER, SINGLE SLOPE, TYPE D ADJACENT THE FORWARD APPROACH SLAB OF BRIDGE NO. SUM-76-1041 L AND CONCRETE BARRIER, SINGLE SLOPE, TYPE B. SEE DETAIL ON SHEET 849. ALL MATERIALS AND LABOR REQUIRED FOR THE COMPLETE INSTALLATION SHALL BE INCLUDED IN THE UNIT PRICE BID PER EACH OF ITEM 622 BARRIER TRANSITION, AS PER PLAN B.

ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN C

CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN C, SHALL BE CONSTRUCTED AS PER STANDARD DRAWING RM-4.5 EXCEPT FOR THE MODIFICATIONS THAT CAN BE SEEN ON DETAIL SHEET844 . ALL MATERIALS AND LABOR REQUIRED FOR THE COMPLETE INSTALLATION SHALL BE INCLUDED IN THE UNIT PRICE BID PER FOOT OF ITEM 622 CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN C.

ITEM 622 - BARRIER TRANSITION, AS PER PLAN C

THIS ITEM IS A PERMANANT TAPERED END SECTION WITH STANDARD SHAPES OF CONCRETE BARRIER, SINGLE SLOPE, TYPE B AND CONCRETE BARRIER, SINGLE SLOPE, TYPE C, SEE DETAIL ON SHEET848 . ALL EXTRA PAVEMENT MATERIALS REQUIRED WITHIN THE DETAIL LIMITS SHALL BE INCIDENTAL TO THIS ITEM. ALL MATERIALS AND LABOR REQUIRED FOR THE COMPLETE INSTALLATION SHALL BE INCLUDED IN THE UNIT PRICE BID PER EACH OF ITEM 622 BARRIER TRANSITION, AS PER PLAN C.

ITEM 608 - CURB RAMP, AS PER PLAN A, B, C, D, E, F

THIS ITEM IS FOR USE OF CURB RAMPS THAT ARE TO BE CONSTRUCTED PER CITY OF AKRON STANDARDS AS IDENTIFIED IN THE PLANS. CURRENT CITY OF AKRON STANDARD DRAWINGS ARE PROVIDED IN THE MISCELLANEOUS DETAILS OF THE CONTRACT DOCUMENTS, SHEETS 846 -847 . ALL OTHER PROVISIONS OF SECTION 608 OF THE CMS SHALL APPLY. PAYMENT FOR ACCEPTED ADJACENT CURBING, TACTILE WARNING STRIPS, AND JOINTS SHALL BE INCLUDED IN THE CONTRACT PRICE PER SQUARE FOOT OF ITEM 608, CURB RAMP, AS PER PLAN, A, B, C, D, E, F. THE CONTRACT PRICE SHALL INCLUDE ALL LABOR, MATERIAL, EQUIPMENT, AND INCIDENTAL ITEMS NECESSARY FOR THE COMPLETE IN PLACE CONSTRUCTION OF ITEM 608, CURB RAMP, AS PER PLAN A, B, C, D, E, F.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

REV. BY	DATE	DESCRIPTION
KMK	5/5/16	BARRIER DIMENSION REVISED- APP "A" REVISED
DATE COMPLETED		

CALCULATED MJT
CHECKED KMK

GENERAL NOTES

SUM-76-10.00

REV. BY	DATE	DESCRIPTION
KMK	5/5/16	D47, D51, D52, STRUCTURE TYPE REVISED
KMK	5/2/16	QUANTITY REVISED- 12" NON-REINFORCED CONCRETE PAVT.
KMS	4/6/16	QUANTITIES UPDATED
DATE COMPLETED		

CALCULATED AMP
CHECKED KMK

OFFICE CALCS	SHEET NUMBER																																PARTICIPATION		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
	42	43	44	45	46	47	48	49	50	55	63	64	65	66	67	68	87	312	325	328	336	355	356	367	368	369	370	699	851	970	1183	1237	01/IMS/PV	04/IMS/OT/AKRN						
																																							DRAINAGE (CONT.)	
																							1										3		611	98371	3	EACH	CATCH BASIN, NO. 6, AS PER PLAN	975
																							6										6		611	98470	6	EACH	CATCH BASIN, NO. 2-2B	
																							1										1		611	98540	1	EACH	CATCH BASIN, NO. 2-4	
																							1										1		611	98634	1	EACH	CATCH BASIN RECONSTRUCTED TO GRADE	
																							1										1		611	98700	1	EACH	INLET, SIDE DITCH	
																							17										17		611	98811	17	EACH	INLET, NO. 3C, AS PER PLAN	972
																							3										3		611	99094	3	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B	
																							14										14		611	99100	14	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE BI	
																							12										12		611	99114	12	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D	
																							122										122		611	99574	122	EACH	MANHOLE, NO. 3	
																							21										21		611	99654	21	EACH	MANHOLE ADJUSTED TO GRADE	
																							7										7		611	99660	7	EACH	MANHOLE RECONSTRUCTED TO GRADE	
							8														6												14		611	99710	14	EACH	PRECAST REINFORCED CONCRETE OUTLET	
						2																											2		611	99720	2	EACH	INSPECTION WELL	
																							1										1		611	99855	1	EACH	WATER QUALITY BASIN, DETENTION, AS PER PLAN	971
							11800																										11800		SPECIAL	61199820	11800	LB	MISCELLANEOUS METAL	48
								300																									300		613	41200	300	CY	LOW STRENGTH MORTAR BACKFILL	
																													1				1		SPECIAL	69065300	1	EACH	GROUND WATER MONITORING WELL ABANDONMENT	48
																													1				1		SPECIAL	69065310	1	EACH	GROUND WATER MONITORING WELL RECONSTRUCTION	48
																							448										448		839	30000	448	FT	TRENCH DRAIN WITH STANDARD GRATE	
																																						PAVEMENT	
		650																															650		251	01000	650	SY	PARTIAL DEPTH PAVEMENT REPAIR	
9196																																	9196		252	01500	9196	FT	FULL DEPTH PAVEMENT SAWING	
		650																															650		253	01000	650	SY	PAVEMENT REPAIR	
17962																																	17962		254	01000	17962	SY	PAVEMENT PLANING, ASPHALT CONCRETE	
10844																												229					11073		301	46000	11073	CY	ASPHALT CONCRETE BASE, PG64-22	
28101																																	28101		302	46000	28101	CY	ASPHALT CONCRETE BASE, PG64-22	
																												61					61		304	20000	61	CY	AGGREGATE BASE	
9912																																	9912		304	20001	9912	CY	AGGREGATE BASE, AS PER PLAN A	43
19839																																	19839		304	20001	19839	CY	AGGREGATE BASE, AS PER PLAN B	43
					158																												158		304	20001	158	CY	AGGREGATE BASE, AS PER PLAN C	43
																							54	76									106	24	407	10000	130	GAL	TACK COAT	
1569																												124					1693		SPECIAL	40720500	1693	GAL	TACK COAT, TRACKLESS TACK	44
11643																																	11643		SPECIAL	40720510	11643	GAL	TACK COAT, TRACKLESS TACK FOR INTERMEDIATE COURSE	44
2345																							26	36									2396	11	441	10000	2407	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG64-22	
5637																							60	84									5755	26	441	10200	5781	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (446)	
			920																														920		441	50200	920	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448)	
																												58					58		441	50400	58	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), (DRIVEWAYS)	
		147																															147		441	50701	147	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), (UNDER GUARDRAIL), AS PER PLAN	43
3568																																	3568		442	10050	3568	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE B (446)	
4316																																	4316		442	10150	4316	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE B (446)	
3117																																	3117		451	14010	3117	SY	9" REINFORCED CONCRETE PAVEMENT, CLASS QC1	43
2172																																		2172	451	14011	2172	SY	9" REINFORCED CONCRETE PAVEMENT, CLASS QC1, AS PER PLAN "A"	43
683																																		683	451	14011	683	SY	9" REINFORCED CONCRETE PAVEMENT, CLASS QC1, AS PER PLAN "B"	44
554																																		554	451	20000	554	SY	REINFORCED CONCRETE PAVEMENT, MISC.: CONCRETE HEADER	44
1193																																	1193		SPECIAL	45130000	1193	FT	PRESSURE RELIEF JOINT, TYPE A	46
																												2					2		452	10050	2	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS	
																							1474	6842				434					7962	788	452	12050	8750	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS	
26063																																	26063		452	15010	26063	SY	12" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1	

GENERAL SUMMARY

SUM-76-10.00

DRAINAGE / SANITARY SUBSUMMARY

CALCULATED AMP
CHECKED KMK

PLAN SHEET NO.	REFERENCE NO.	STATION FROM	STATION TO	SIDE	PARTICIPATION (01/IMS/PV OR 04/IMS/OT/AKRN)	202 PAVEMENT REMOVED	407 TACK COAT	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG64-22	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (446)	452 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS	202 PIPE REMOVED, 24" AND UNDER	202 PIPE REMOVED, OVER 24"	202 MANHOLE REMOVED	202 CATCH BASIN OR INLET REMOVED	611 12" CONDUIT, TYPE C, 706.02	611 15" CONDUIT, TYPE B	611 15" CONDUIT, TYPE C	611 18" CONDUIT, TYPE B	611 21" CONDUIT, TYPE B	611 21" CONDUIT, TYPE C, 706.08	611 CONDUIT, MISC.: 24" SANITARY SEWER, 706.03 WITH 706.11, CLASS "B" BEDDING	611 CONDUIT, MISC.: 30" SANITARY SEWER, 706.03 WITH 706.11, CLASS "B" BEDDING	611 CATCH BASIN, NO. 5	611 INLET, NO. 3C, AS PER PLAN	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1	611 INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D	611 MANHOLE, NO. 3	611 MANHOLE, NO. 3, AS PER PLAN (SANITARY)	SPECIAL BACKFLOW PREVENTER, MISC.: FLAP GATE, 15"	670 DITCH EROSION PROTECTION	
			I.R. 76			SY	GAL	CY	CY	SY	FT	FT	EACH	EACH	FT	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	SY	
858	D-47	493+97.00	494+75.79	LT	01/IMS/PV													79						1								
	D-47A	NOT	USED		01/IMS/PV																											
858	D-48	493+96.54	494+92.71	RT	01/IMS/PV						87			1					96					1								
858	D-49	495+78.00	495+78.00	RT	01/IMS/PV											8									1							
858	D-50	493+96.00	495+78.00	RT	01/IMS/PV														182								1					
858	D-51	494+75.79	497+07.00	LT	01/IMS/PV											232								1								
858 - 859	D-51A	497+07.18	498+73.00	LT	01/IMS/PV											169											1					
858	D-52	494+92.71	496+20.00	RT	01/IMS/PV													127						1								
	D-52A	NOT	USED		01/IMS/PV																											
858	D-53	495+78.00	497+85.00	RT	01/IMS/PV											207											1					
858	D-53A	494+81.22	497+49.30	RT	01/IMS/PV						327			2																		
858	D-54	497+85.00	497+85.00	RT	01/IMS/PV											8									1							
858 - 859	D-55	496+20.00	499+00.00	RT	01/IMS/PV											277											1					
858 - 859	D-58	497+85.00	500+92.00	RT	01/IMS/PV											306											1					
859	D-58A	499+92.03	501+99.59	RT	01/IMS/PV						203			1																		
	EC-1	NOT	USED		01/IMS/PV																											
	EC-2	NOT	USED		01/IMS/PV																											
858	S-73	493+10.22	493+12.75	LT	01/IMS/PV						120											39								1		
858	S-73A	493+05.02	493+10.22	LT	01/IMS/PV																	81								1		
858	S-74	492+98.71	493+05.02	RT	01/IMS/PV						70	25	1										94							1		
858	S-75	492+87.11	492+98.71	RT	04/IMS/OT/AKRN	79.31	5.95	2.75	6.61	98.86		156											156							1		
858	S-75A	492+67.70	492+87.11	RT	04/IMS/OT/AKRN	35.15	2.64	1.22	2.93	43.81		35											35									
858	R-48	497+26.85	497+27.19	LT	01/IMS/PV						10			1																		
859	R-48A	504+13.39	505+19.98	RT	01/IMS/PV						125		1	1																		
859	D-56	498+73.00	500+40.37	LT	01/IMS/PV											170												1				
859	D-56A	500+07.89	500+70.49	LT	01/IMS/PV						92			1																		
859	D-56B	500+40.35	500+50.00	LT	01/IMS/PV												18								1							
859	D-57	500+92.00	500+92.26	RT	01/IMS/PV						101			1		8										1						
859	D-57A	500+07.89	502+49.36	LT	01/IMS/PV						242			1																		
859	D-59	499+00.00	500+43.60	RT	01/IMS/PV						239			1		142												1				
859	D-59A	500+43.60	500+50.00	RT	01/IMS/PV												25								1							
859	D-60	503+85.00	504+06.80	RT	01/IMS/PV						161			1		23										1					1		
859	D-60A	504+43.45		LT	01/IMS/PV						10			1	5						5								1			
859	D-61A	503+85.00	504+09.54	RT	01/IMS/PV											25														1		
859	EC-3	500+00.00	502+00.00	LT	01/IMS/PV																										190	
859	EC-4	500+00.00	502+00.00	RT	01/IMS/PV																										167	
SUBTOTALS CARRIED TO 355 - 356						114	9	4	10	143	1787	216	2	12	5	1575	43	206	278	5	120	285	2	5	4	2	6	4	2	357		

REV. BY	DATE	DESCRIPTION
KMK	5/5/16	D47, D51, D52, STRUCTURE TYPE REVISED
KMS	4/7/16	QUANTITIES REMOVED FOR D-47A, D-52A, EC-1 AND EC-2
DATE COMPLETED		

SUM-76-10.00

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1822

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SHEET NUMBER																		PARTICIPATION		ITEM	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	01/IMS/PV	04/IMS/OT/AKRN					
																							DRAINAGE	
			2	1	3	5	4	1		2	3	2	8	6	4	5	4	50		611	50	EACH	CATCH BASIN, NO. 3	
1		4	2	3	2	16	7	12	6	5	12	5	7	9	6	4	9	110		611	110	EACH	CATCH BASIN, NO. 3A	
											2							2		611	2	EACH	CATCH BASIN, NO. 3A, AS PER PLAN	976
	2	4	4	4	2							1						17		611	17	EACH	CATCH BASIN, NO. 5	
						1			3	1			1	1				7		611	7	EACH	CATCH BASIN, NO. 6	
			1															1		611	1	EACH	CATCH BASIN, NO. 6, AS PER PLAN	975
							1				1	1	2				1	6		611	6	EACH	CATCH BASIN, NO. 2-2B	
				1														1		611	1	EACH	CATCH BASIN, NO. 2-4	
															1			1		611	1	EACH	CATCH BASIN RECONSTRUCTED TO GRADE	
															1			1		611	1	EACH	INLET, SIDE DITCH	
11	5		1															17		611	17	EACH	INLET, NO. 3C, AS PER PLAN	972
2			1															3		611	3	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B	
10	4																	14		611	14	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1	
5	2	2		1					1	1								12		611	12	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D	
5	6	4	2	4	2	13	5	14	9	12	11	3	7	8	5	6	6	122		611	122	EACH	MANHOLE, NO. 3	
		3				2	5	3	1	1	1			2	3			21		611	21	EACH	MANHOLE ADJUSTED TO GRADE	
								2			1	1	1		2			7		611	7	EACH	MANHOLE RECONSTRUCTED TO GRADE	
											1							1		611	1	EACH	WATER QUALITY BASIN, DETENTION, AS PER PLAN	971
380								22	26				20					448		839	448	FT	TRENCH DRAIN WITH STANDARD GRATE	
																							PAVEMENT	
	9	21				3			1			9	1	3			7	30	24	407	54	GAL	TACK COAT	
	4	10				2			1			4	1	1			3	15	11	441	26	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE I, (446), PG64-22	
	10	23				4			1			11	1	3			7	34	26	441	60	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (446)	
	143	364				60	104	87	19			170	4	56	361		106	686	788	452	1474	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS	
																							SANITARY	
		152			77		44		168	57			179	565		764	216	911	1311	611	2222	FT	CONDUIT, MISC.: 8" SANITARY SEWER, 707.20, CLASS "NR" BEDDING	50
			320				283	159			188							550	400	611	950	FT	CONDUIT, MISC.: 10" SANITARY SEWER, 707.20, CLASS "NR" BEDDING	50
								5										5		611	5	FT	CONDUIT, MISC.: 10" SANITARY SEWER, 706.08 WITH 706.12, CLASS "B" BEDDING	50
			310						697	461	266	279	512					2165	360	611	2525	FT	CONDUIT, MISC.: 12" SANITARY SEWER, 707.20, CLASS "NR" BEDDING	50
		72								10								10	72	611	82	FT	CONDUIT, MISC.: 12" SANITARY SEWER, 706.08 WITH 706.12, CLASS "B" BEDDING	50
															352				352	611	352	FT	CONDUIT, MISC.: 15" SANITARY SEWER, 706.08 WITH 706.12, CLASS "B" BEDDING	50
		280	565															727	118	611	845	FT	CONDUIT, MISC.: 18" SANITARY SEWER, 706.08 WITH 706.12, CLASS "B" BEDDING	50
	120	285												66				186	285	611	471	FT	CONDUIT, MISC.: 24" SANITARY SEWER, 706.03 WITH 706.11, CLASS "B" BEDDING	50
		154																	154	611	154	FT	CONDUIT, MISC.: 24" SANITARY SEWER, 706.08 WITH 706.12, CLASS "B" BEDDING	50
	285					10												104	191	611	295	FT	CONDUIT, MISC.: 30" SANITARY SEWER, 706.03 WITH 706.11, CLASS "B" BEDDING	50
												266							266	611	266	FT	CONDUIT, MISC.: 42" SANITARY SEWER, 706.03 WITH 706.11, CLASS "B" BEDDING	50
																	542	542		611	542	FT	CONDUIT, MISC.: 54" SANITARY SEWER, 706.03 WITH 706.11, CLASS "B" BEDDING	50
		121																121		611	121	FT	CONDUIT, MISC.: 66" SANITARY SEWER, 706.03 WITH 706.11, CLASS "B" BEDDING	50
															212				212	611	212	FT	CONDUIT, MISC.: 24-INCH SANITARY/COMBINED SEWER RECONSTRUCTION BY THE CIPP PROCESS	50
							1	1		1	1							4		611	4	EACH	MANHOLE, NO. 2, AS PER PLAN (SANITARY)	50
	4	5	9		1	1	2	1	6	6	3	2	1	4		5	6	40	16	611	56	EACH	MANHOLE, NO. 3, AS PER PLAN (SANITARY)	50
		2																2		611	2	EACH	MANHOLE, NO. 5, AS PER PLAN (SANITARY)	50
		3	1				1	6	3			1	1	1	1	2	2	22		611	22	EACH	MANHOLE ADJUSTED TO GRADE, AS PER PLAN (SANITARY)	50
		4	1			1			1	1		1	1					9	1	611	10	EACH	MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN (SANITARY)	50
				1		2	1						2	1	1			8		SPECIAL	8	EACH	BACKFLOW PREVENTER, MISC.: FLAP GATE, 12"	50
2	2	2												1				7		SPECIAL	7	EACH	BACKFLOW PREVENTER, MISC.: FLAP GATE, 15"	50
1		1	1			1												4		SPECIAL	4	EACH	BACKFLOW PREVENTER, MISC.: FLAP GATE, 18"	50
1																		1		SPECIAL	1	EACH	BACKFLOW PREVENTER, MISC.: FLAP GATE, 21"	50
2																		2		SPECIAL	2	EACH	BACKFLOW PREVENTER, MISC.: FLAP GATE, 24"	50
				1														1		SPECIAL	1	EACH	BACKFLOW PREVENTER, MISC.: FLAP GATE, 36"	50
												195						195		638	195	FT	24" STEEL PIPE ENCASEMENT, OPEN CUT	
			100																100	638	100	FT	24" STEEL PIPE ENCASEMENT, BORED OR JACKED	
																	101	101		833	101	FT	CONDUIT RENEWAL USING SPRAY APPLIED STRUCTURAL LINER, 54" ROUND CONDUIT, AS PER PLAN	55
																	727	501	226	833	727	FT	CONDUIT RENEWAL USING SPRAY APPLIED STRUCTURAL LINER, 66" ROUND CONDUIT, AS PER PLAN	55

NOTE: TOTALS CARRIED TO GENERAL SUMMARY

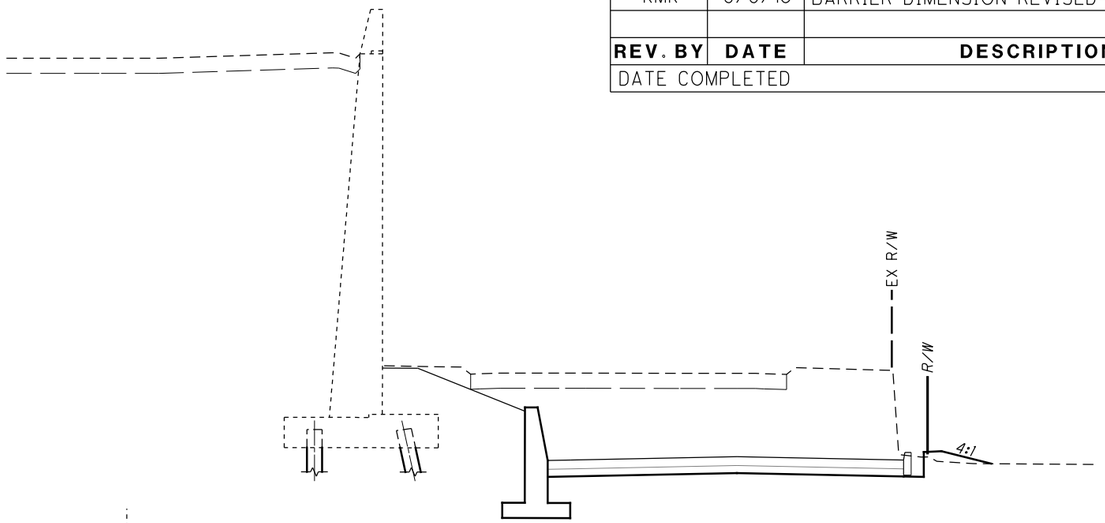
REV. BY	DATE	DESCRIPTION
KMK	5/5/16	D47, D51, D52, STRUCTURE TYPE REVISED
KMS	4/7/16	QUANTITY UPDATED: CATCH BASIN, NO. 5
DATE COMPLETED		

CALCULATED AMP
CHECKED KMK

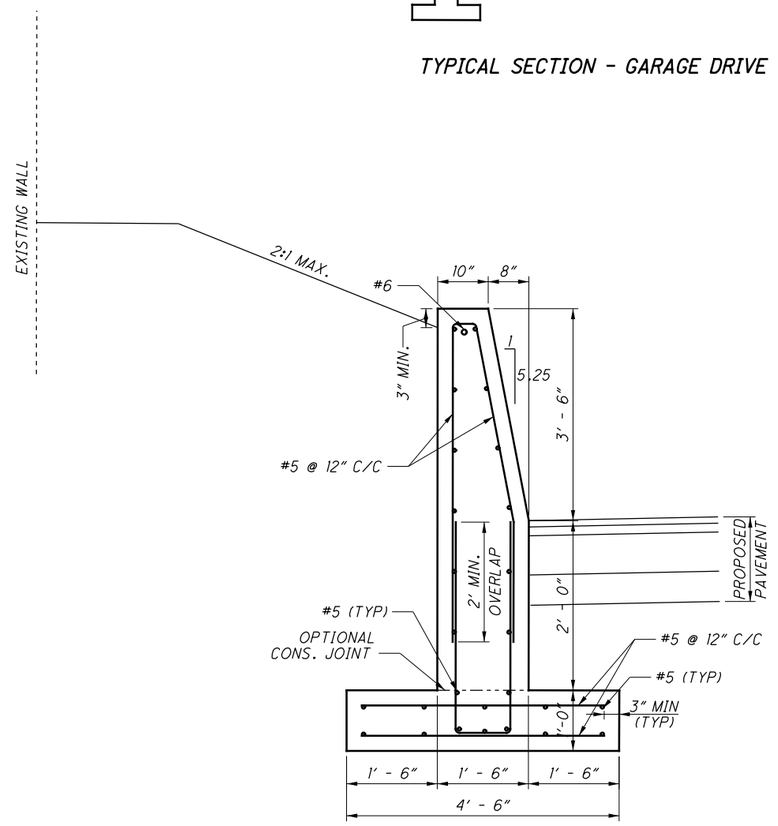
DRAINAGE / SANITARY SUBSUMMARY

SUM-76-10.00

REV. BY	DATE	DESCRIPTION
KMK	5/5/16	BARRIER DIMENSION REVISED- APP "A" REVISED
DATE COMPLETED		



TYPICAL SECTION - GARAGE DRIVE



SECTION VIEW
NOT TO SCALE
CONCRETE BARRIER,
SINGLE SLOPE,
TYPE D, AS PER PLAN A

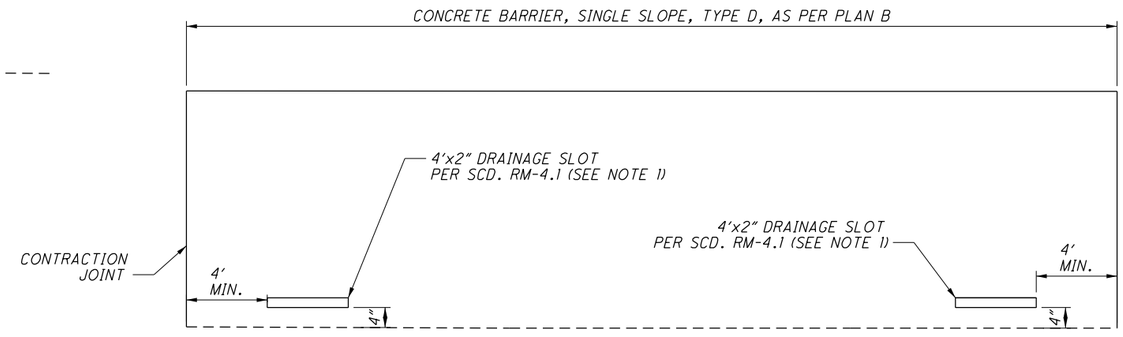
THIS MODIFIED BARRIER IS TO BE USED ALONG GARAGE DRIVE.

NOTES

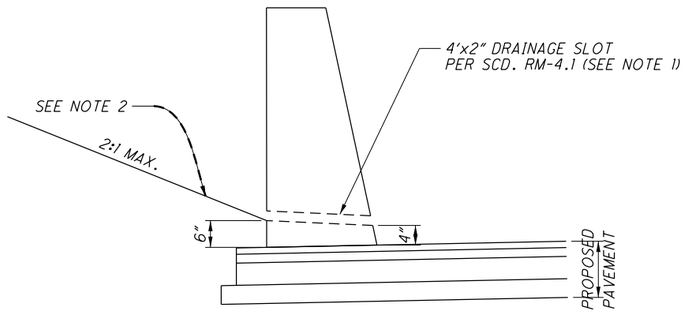
ALL METHODS AND MATERIALS SHALL CONFORM TO ODOT CMS AND SCD UNLESS OTHERWISE NOTED HEREIN.

1. DRAINAGE SLOTS SHALL BE PROVIDED AT 2 SLOTS PER 20 FEET OF BARRIER AND SHALL BE LOCATED A MINIMUM OF FOUR FEET (4') FROM A CONTRACTION JOINT AND ADJOINING A DRAINAGE INLET OR BARRIER TRANSITION

2. THE SLOPES SHALL BE PLACED SUCH THAT THE RUNOFF CAN FLOW UNDER THE CONCRETE BARRIER, TYPE D, AS PER PLAN B ON TO THE MAINLINE SHOULDER THEN INTO THE MAINLINE SHOULDER INLET



ELEVATION VIEW
CONCRETE BARRIER,
SINGLE SLOPE,
TYPE D, AS PER PLAN B



SECTION VIEW
CONCRETE BARRIER,
SINGLE SLOPE,
TYPE D, AS PER PLAN B

CALCULATED AWF
CHECKED PHF

ROADWAY MISC. DETAILS
CONCRETE BARRIER TYPE D, AS PER PLAN & AS PER PLAN B

SUM-76-10.00

843
1822

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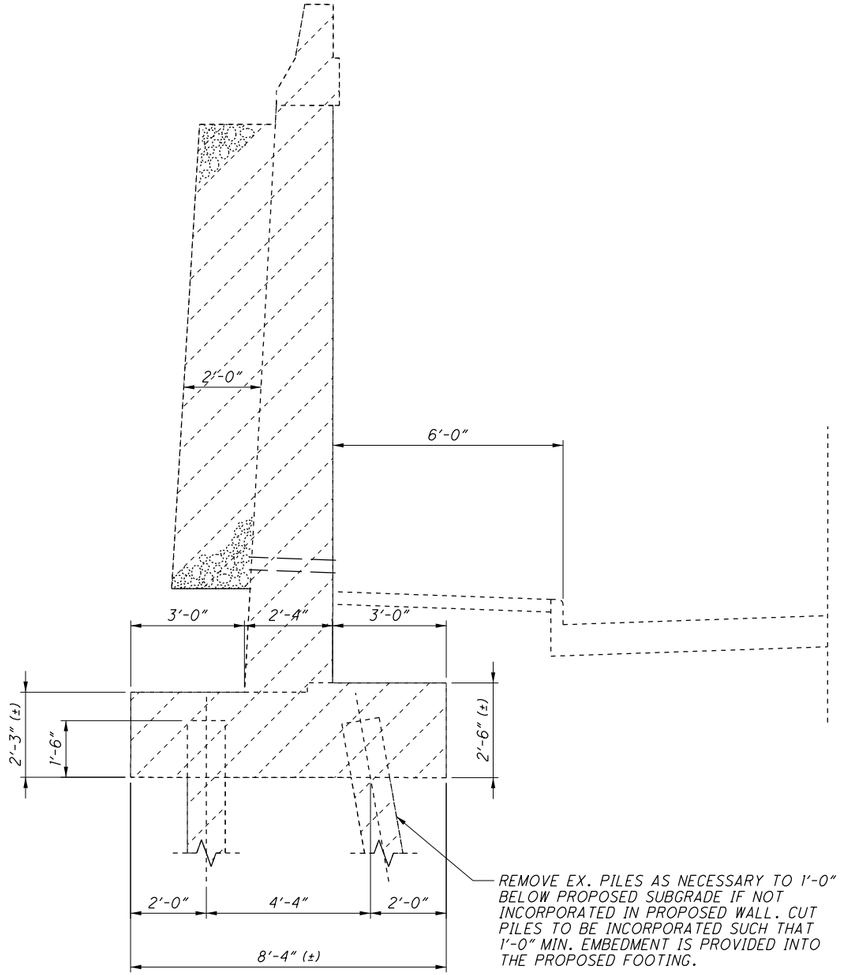
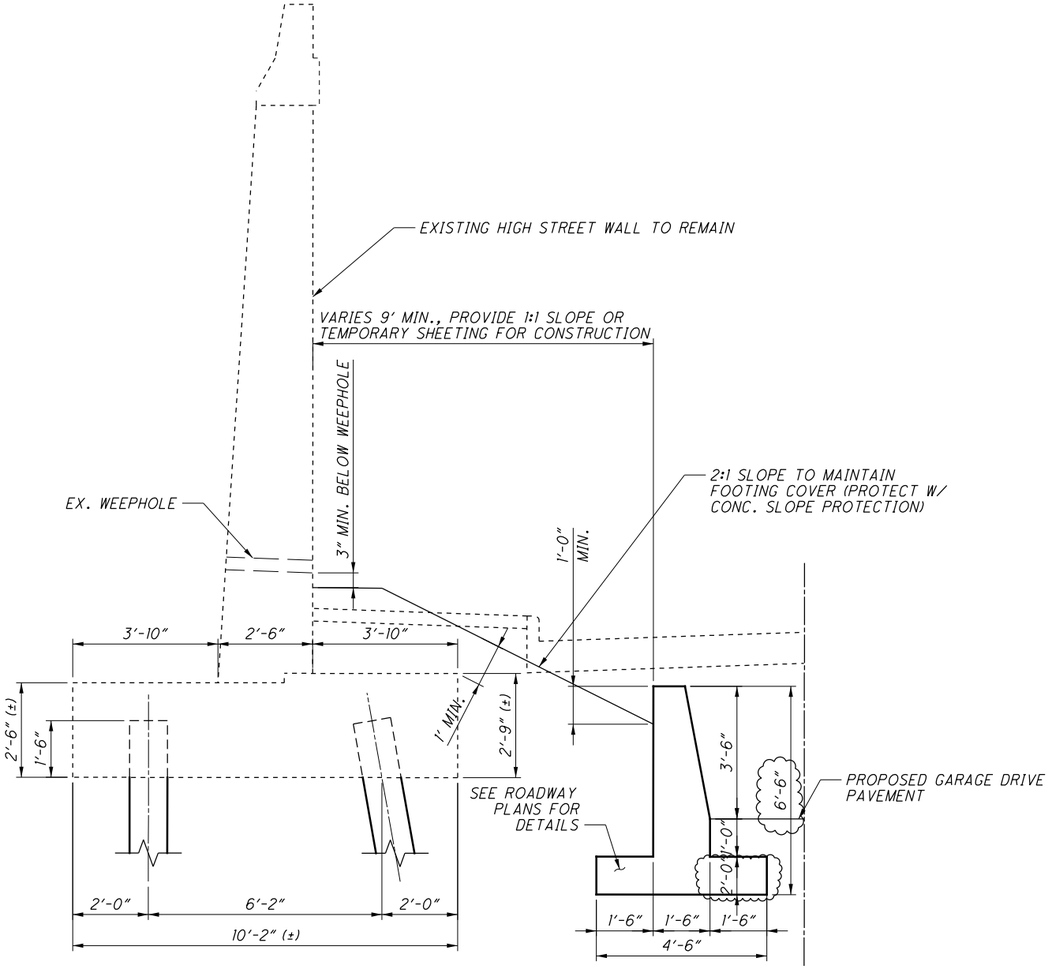


B/1 SECTION
EXISTING WALL TO BE REMOVED



EXISTING WALL SECTION WITH MODIFIED TYPE D BARRIER

C/2 SECTION
EXISTING WALL W/ MOD. TYPE D BARRIER

NOTES:

1. FOR NOTES SEE SHEET 11/12.

REV. BY	DATE	DESCRIPTION
KMK	5/5/16	BARRIER DIMENSION REVISED
DATE COMPLETED		

DESIGN AGENCY
URS
AKRON CLEVELAND COLUMBUS
564 WHITE POND DRIVE
AKRON, OHIO 44320-1100
(330) 836-9111

DESIGNED	DRAWN	REVIEWED	DATE
SAM	ERM	BKL	11/14
CHECKED	REVISED	STRUCTURE FILE NUMBER	
DRC		N/A	

REMOVAL LIMITS AND EXISTING WALL DETAILS
WALL 10
ALONG GARAGE DRIVE AND HIGH STREET

SUM-76-10.00
PID No. 77269

3 / 12

1687
1822

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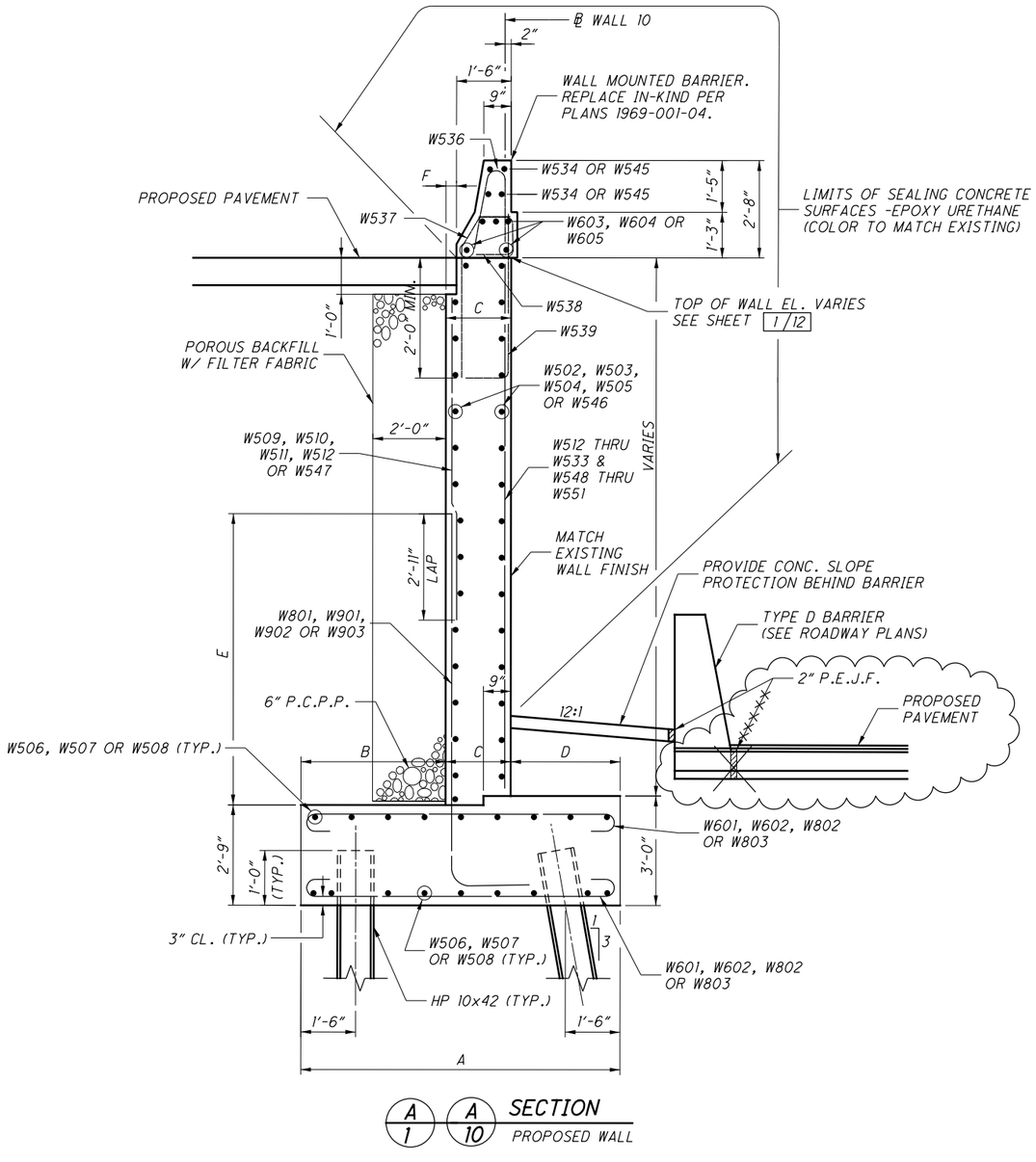
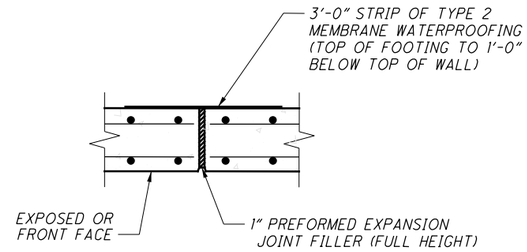
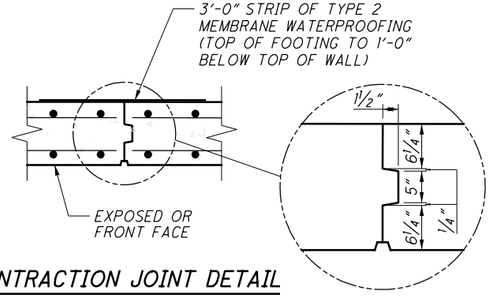


A/1 A/10 SECTION PROPOSED WALL



EXPANSION JOINT DETAIL

STA. 14+35.00, 14+85.00, 15+35.00, 16+35.39



CONTRACTION JOINT DETAIL

STA. 13+63.50, 13+88.00, 14+11.50, 14+60.00, 15+10.00, 15+69.00, 16+03.00

DIMENSION TABLE

WALL SECTION	DIMENSIONS					
	A	B	C	D	E	F
①	8'-6"	4'-0"	1'-6"	3'-0"	6'-5"	--
②	8'-6"	4'-0"	1'-6"	3'-0"	6'-5"	--
③	9'-6"	5'-0"	1'-6"	3'-0"	7'-10"	--
④	11'-0"	5'-6"	2'-0"	3'-6"	8'-6"	0'-6"
⑤	11'-10"	5'-6"	2'-6"	3'-10"	9'-0"	1'-0"

NOTES:

1. WALL BASELINE IS LOCATED 2" BEHIND THE FRONT FACE OF WALL.
2. SEE WALL GENERAL NOTES SHEETS 1616/1822 THRU 1618/1822 FOR ADDITIONAL NOTES.
3. PILES SHALL BE DRIVEN TO REFUSAL ON BEDROCK.
4. INCORPORATE EXISTING PILES DENOTED ON FOUNDATION PLAN SHEET 3/9 IN THE PROPOSED FOOTING.

REV. BY	DATE	DESCRIPTION
KMK	5/5/16	PEJF REMOVED - PAVEMENT BUILD-UP REVISED TO MATCH TYPICALS
DATE COMPLETED		

DESIGN AGENCY
URS
AKRON CLEVELAND COLUMBUS
344 WHITE POND DRIVE
AKRON, OHIO 44320-1100
(330) 836-9111

DESIGNED	DRAWN	REVIEWED	DATE
SAM	ERM	BKL	11/14
CHECKED	REVISED	STRUCTURE FILE NUMBER	
DRC		N/A	

WALL DETAILS
WALL 10
ALONG GARAGE DRIVE AND HIGH STREET

SUM-76-10.00
PID No. 77269

11/12

1695/1822

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