

I:\ProjectData\HAM-71-6.03-HAM-DanaAveStormPipe\Design\Drawings\Sheet5\11536_GTO01.dgn_Sheet 7/27/2020 1:07:30 PM mbailey5



LOCATION MAP

LATITUDE: 39°08' 44.07" N LONGITUDE: 84°27'25.18" W



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

STATE OF OHIO
 DEPARTMENT OF TRANSPORTATION
HAM-71-6.03
DANA AVE RAMP STORM SEWER REPLACEMENT
 COLUMBIA TOWNSHIP
 HAMILTON COUNTY

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PROJECT DESCRIPTION

REPLACE 15" STORM SEWER IN INFIELD OF DANA AVENUE TO I-71S RAMP AND RECONNECT TO EXISTING 108" COMBINED SEWER.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	0.12 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	NOI 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.

2019 SPECIFICATIONS

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

DESIGN EXCEPTIONS

N/A

UNDERGROUND UTILITIES
 Contact Two Working Days Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764 (Non-members must be called directly)

PLAN PREPARED BY:
 OHIO DEPARTMENT OF TRANSPORTATION
 DISTRICT 8 - ENGINEERING

ENGINEERS SEAL:

SIGNED: *Maxwell L. Bailey*
 DATE: 5/18/2020

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
MT-95.45	1/17/20			832	10/19/18		
MT-98.28	1/17/20			800-2020	4/17/20		
MT-105.10	1/17/20						
MT-95.30	7/19/19						
MT-98.20	4/19/19						

APPROVED: *Tamy K. Capbell*
 DATE: 5/13/2020 DISTRICT DEPUTY DIRECTOR

APPROVED: _____
 DATE: _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO. **E201042**
 CONSTRUCTION PROJECT NO. **111536**
 RAILROAD INVOLVEMENT **NONE**
HAM-71-6.03
DANA AVE RAMP

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

ITEM 503 COFFERDAMS & EXCAVATION BRACING, AS PER PLAN

PROVIDE TEMPORARY EXCAVATION SUPPORT AS NEEDED FOR REPLACEMENT OF STORM SEWERS. TEMPORARY EXCAVATION SUPPORT, INCLUDED BUT NOT LIMITED TO SHEET PILE WALLS AND SOLDIER PILE WALLS, SHALL BE DESIGNED WITH THE REQUIREMENT THAT DURING WALL SERVICE, THE TOP OF WALL DEFLECTION WILL BE THE LESSER OF 1% OF THE WALL HEIGHT OR 1". ALL TEMPORARY WALL DESIGNS SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER OF RECORD AND SHALL BE DESIGNED PER THE LATEST LRFD GUIDELINES. SUBMIT ALL DESIGN CALCUALTIONS, WITH CONCURRENCE BY THE GEOTECHNICAL ENGINEER OF RECORD, TO THE DEPARTMENT AS OUTLINED IN CMS 501.05.

ITEM 611 - CONDUIT, MISC.: VIDEO LOG

PERFORM A VIDEO LOG OF THE 108" DIAMETER COMBINED SEWER AFTER THE COMPLETION OF THE STORM SEWER REPLACEMENTS AND CONNECTION TO THE 108" COMBINED SEWER AS SHOWN ON SHEETS 4 AND 7. THE VIDEO LOG OF THE 108" COMBINED SEWER SHALL CONSIST OF 100 FT CENTERED ON EACH OF THE 15" DIAMETER AND 12" DIAMETER STORM SEWER CONNECTIONS. CONTRACTOR IS TO FIELD VERIFY THAT THE NEAREST ACCESS TO THE 108" COMBINED SEWER IS APPROXIMATELY 600 FT TO THE SOUTHWEST OF THE 15" STORM SEWER CONNECTION.

IF A BLOCKAGE IS ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY AND THE VIDEO LOG SHALL BE SUSPENDED UNTIL THE PIPE HAS BEEN THOROUGHLY CLEANED OUT.

IF A COLLAPSE OR FAILURE OF THE PIPE IS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY SUSPEND THE VIDEO LOG AND NOTIFY THE ENGINEER.

FURNISH THE VIDEO RECORDING IN A DIGITAL, REPRODUCIBLE FORMAT ON ONE OF THE FOLLOWING MEDIA TYPES: DVD, CD, OR OTHER MEDIA APPROVED BY THE ENGINEER.

THE VIDEO LOG OF THE CONDUIT SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM 611, CONDUIT MISC.: VIDEO LOG. THIS PRICE SHALL INCLUDE THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE ABOVE STATED WORK.

THE FOLLOWING QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

611, CONDUIT, MISC.: VIDEO LOG: 200 FT

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.

SEEDING AND MULCHING

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

- 659, TOPSOIL 340 CU. YD.
- 659, SEEDING AND MULCHING 3063 SQ. YD.
- 659, COMMERCIAL FERTILIZER 0.41 TON
- 659, LIME 0.63 ACRES
- 659, WATER 16.5 M. GAL.

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 202- PIPE REMOVED, OVER 24", AS PER PLAN

APPROXIMATELY 40 FT OF THE EXISTING ABANDONED 2.5' BRICK SEWER SHALL BE REMOVED TO ACCOMODATE EXCAVATION BRACING. ENDS SHALL BE PLUGGED OR SEALED PER CMS 202.04 .

REMOVAL OF THE EXISTING ABANDONED 2.5' BRICK SEWER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM 611, CONDUIT MISC.: CUT AND PLUG EXISTING BRICK SEWER. THIS PRICE SHALL INCLUDE THE COST FOR MATERIAL, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE ABOVE STATED WORK.

ITEM 614, MAINTAINING TRAFFIC (LANE CLOSURE/REDUCTION REQUIRED)

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

DELINEATION OF PORTABLE BARRIER

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALL ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL.

BARRIER REFLECTORS SHALL CONFORM TO C&MS 626 EXPECT THAT SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB CONTAINS GLARE SCREEN ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY:

- ITEM 626, BARRIER REFLECTOR TYPE 1 (ONE-WAY), 12 EACH
- ITEM 614, OBJECT MARKER, ONE-WAY, 12 EACH
- ITEM 622, PORTABLE BARRIER, UNANCHORED, 600 FT

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	4 CALENDAR DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

ACCESS BEHIND GUARDRAIL

REMOVE AND RE-ERECT GUARDRAIL AS NECESSARY FOR ACCESS TO A WORK LOCATION. REMOVE GUARDRAIL ONLY WHEN IT CAN BE REPLACED ON THE SAME DAY. OBTAIN APPROVAL FROM THE ENGINEER FOR EACH LOCATION, PRIOR TO PERFORMING THE WORK. THIS WORK INCLUDES REMOVAL OF EXISTING GUARDRAIL AND POSTS AND RE-ERECTION OF THE SAME MATERIALS. EXISTING RAIL ELEMENTS AND BARRIER REFLECTORS MAY BE REUSED. PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PERFORM THIS WORK SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

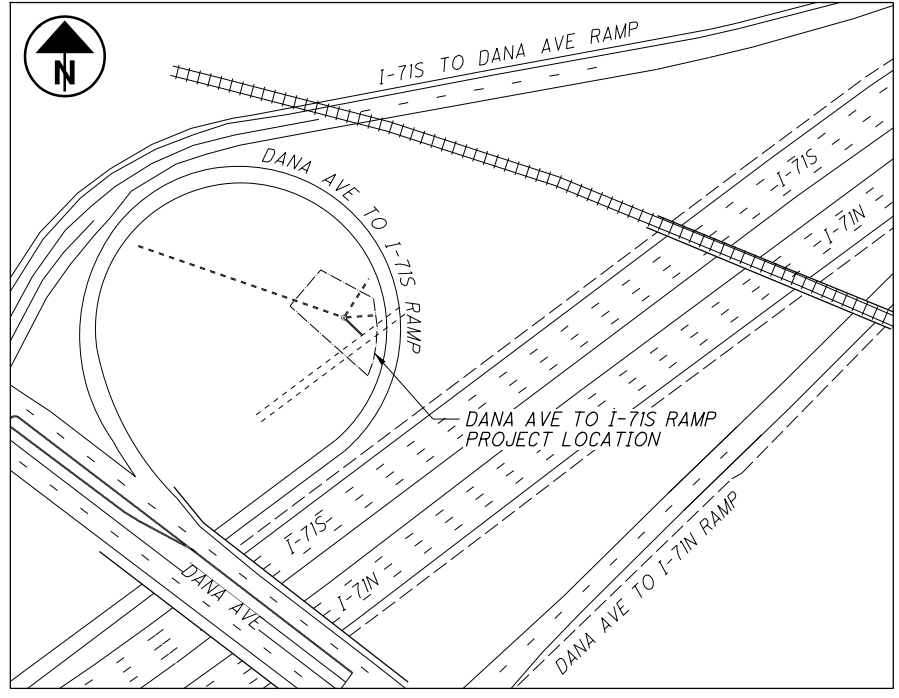
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SHEET NUM.										PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE
2	4	6	7							01/IMS/0 T		EXT	TOTAL			SHEET
		LS								LS	201	11000	LS		ROADWAY	
	31	77	26							134	202	35100	134	FT	CLEARING AND GRUBBING	
	40									40	202	35201	40	FT	PIPE REMOVED, 24" AND UNDER	
		LS	1							1	202	58100	1	EACH	PIPE REMOVED, OVER 24", AS PER PLAN	2
		LS	LS	LS						LS	503	11101	LS		CATCH BASIN REMOVED	
															BOFFERDAMS AND EXCAVATION BRACING, AS PER PLAN	2
															EROSION CONTROL	
	340									340	659	00300	340	CY	TOPSOIL	
	3,063									3,063	659	10000	3,063	SY	SEEDING AND MULCHING	
	0.41									0.41	659	20000	0.41	TON	COMMERCIAL FERTILIZER	
	0.63									0.63	659	31000	0.63	ACRE	LIME	
	16.5									16.5	659	35000	16.5	MGAL	WATER	
										6,000	832	30000	6,000	EACH	EROSION CONTROL	
															DRAINAGE	
			26							26	611	05200	26	FT	12" CONDUIT, TYPE F 707.05 TYPE C OR 707.21	
		31	77							108	611	06700	108	FT	15" CONDUIT, TYPE F 707.05 TYPE C OR 707.21	
	200									200	611	37400	200	FT	CONDUIT, MISC.: VIEWED LOG	2
			1							1	611	98300	1	EACH	CATCH BASIN, NO. 5	
															TRAFFIC CONTROL	
	12									12	626	00102	12	EACH	BARRIER REFLECTOR, TYPE 1 (ONE-WAY)	
															MAINTENANCE OF TRAFFIC	
	12									12	614	13350	12	EACH	OBJECT MARKER, ONE WAY	
	600									600	622	41100	600	FT	PORTABLE BARRIER, UNANCHORED	
															INCIDENTALS	
										LS	614	11000	LS		MAINTAINING TRAFFIC	
										LS	624	10000	LS		MOBILIZATION	

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CALCULATED	MLB	CHECKED	TRB
GENERAL SUMMARY			
HAM-71-6.03			
DANA AVE RAMP			
3			
8			

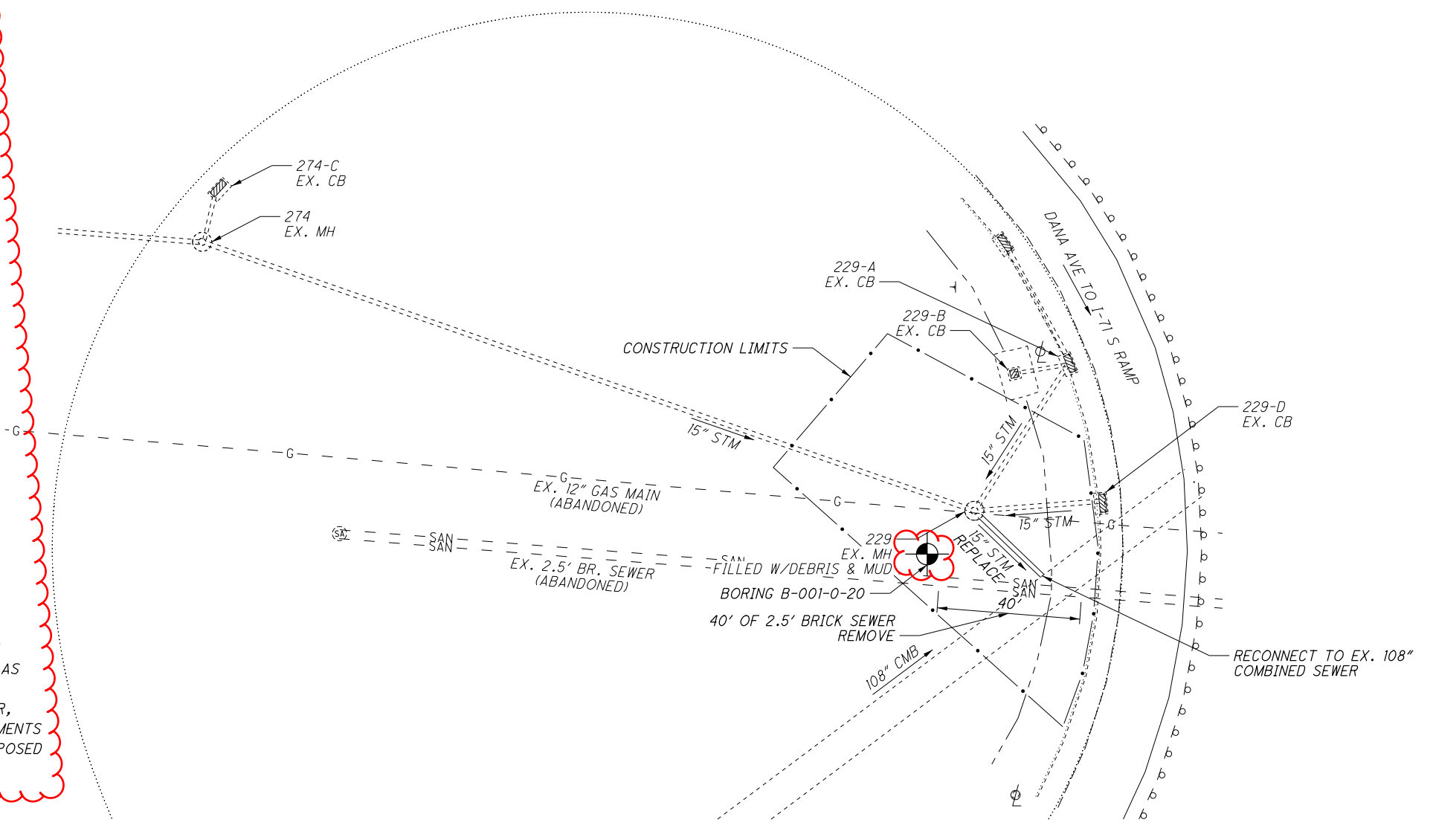
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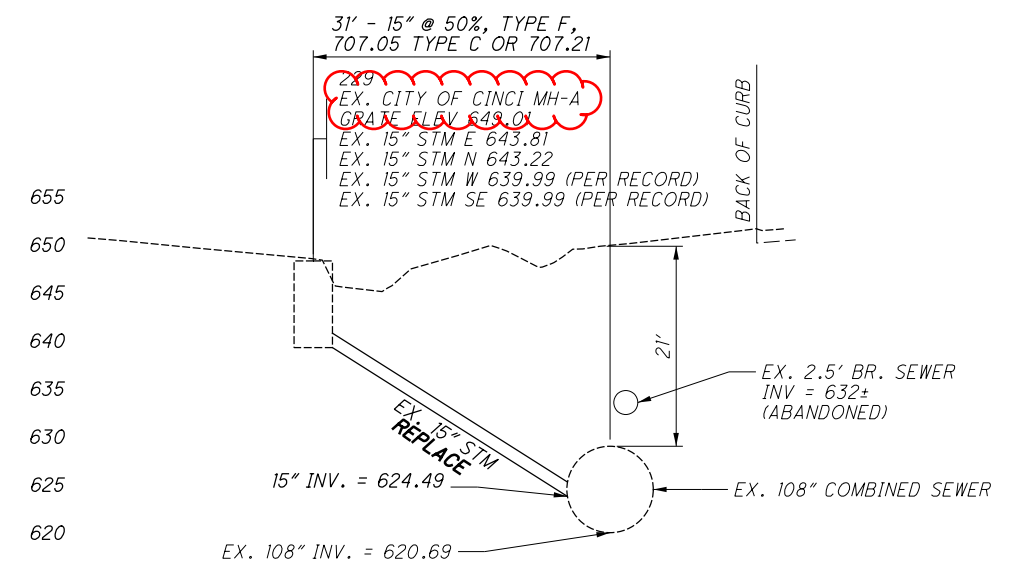
RAMP LOCATION MAP

NOTES:

- USE EXTREME CAUTION WHEN REMOVING THE EXISTING 15" TIE IN TO THE EXISTING 108" COMBINED SEWER TO ENSURE THE EXISTING 108" IS NOT DAMAGED. USE METHODS SUCH AS HAND CHIPPING AND WIRE BRUSH TO REMOVE THE EXISTING GROUT SURROUNDING THE EXISTING 15" PIPE. CONNECT THE PROPOSED 15" CONDUIT TO THE 108" COMBINED SEWER, UTILIZING THE EXISTING OPENING FROM THE EXISTING CONDUIT. FOLLOW THE REQUIREMENTS IN 611.10B FOR THE CONNECTION. ENSURE THE GROUT BETWEEN THE EXISTING AND PROPOSED CONDUITS IS SMOOTH AND HAS NO GAPS.



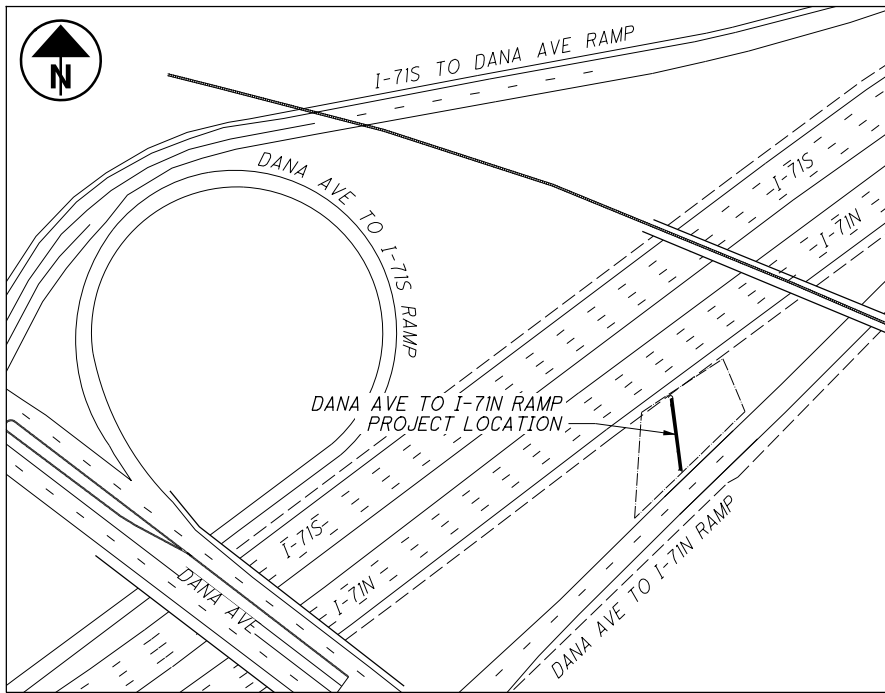
ESTIMATED QUANTITIES (HAM-71-6.03 DANA AVE RAMP)			
ITEM	GRAND TOTAL	UNIT	DESCRIPTION
202	31	FT	PIPE REMOVED, 24" AND UNDER
202	40	FT	PIPE REMOVED, OVER 24", AS PER PLAN
503	LS	LS	COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN
611	31	FT	15" CONDUIT, TYPE F 707.05 TYPE C OR 707.21
611	100	FT	CONDUIT, MISC.: VIDEO LOG



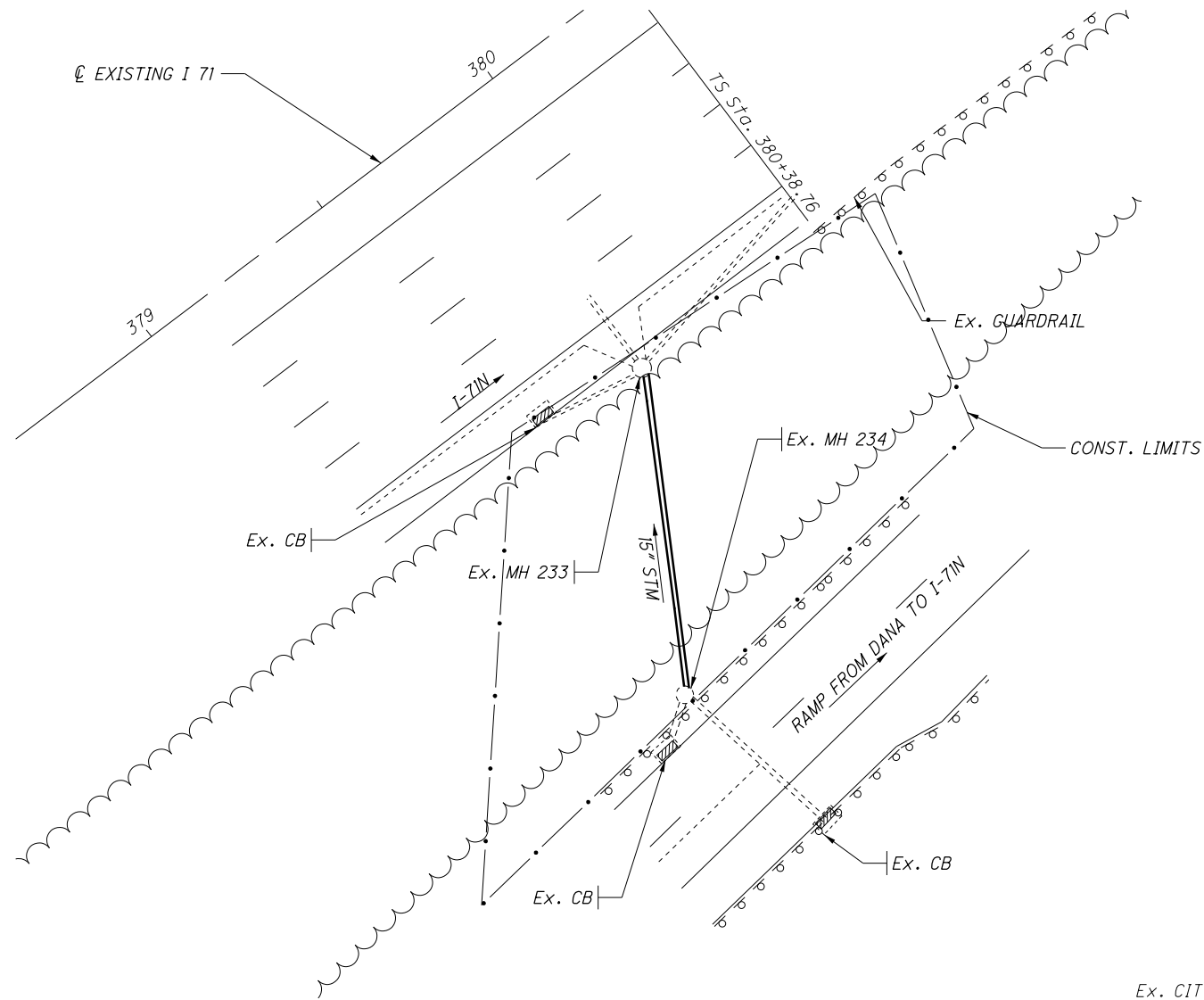
PROJECT: HAM-71-DANA AVE TYPE: UNDERGROUND UTILITY		DRILLING FIRM / OPERATOR: TERRACON / J.M. SAMPLING FIRM / LOGGER: TERRACON / J.M.		DRILL RIG: CME 55 TRACK (#642) HAMMER: AUTOMATIC HAMMER		STATION / OFFSET: 377+90.55 LT.		EXPLORATION ID	
PID: 111536 SFN: N/A		DRILLING METHOD: 3.25" HSA		CALIBRATION DATE: 11/6/18		ALIGNMENT: 71		B-001-0-20	
START: 3/23/20 END: 3/23/20		SAMPLING METHOD: SPT		ENERGY RATIO (%): 89.5		ELEVATION: 553.8 (MSL) EOB: 50.0 ft.		PAGE	
				LAT / LONG: 39.145547, -84.457011				1 OF 1	
MATERIAL DESCRIPTION AND NOTES									
TOPSOIL, 6 INCHES		ELEV. 653.8		SPT / RQD		GRADATION (%)		ATTENBERG	
MEDIUM STIFF TO STIFF BROWN, SILTY CLAY, LITTLE SAND, TRACE ASPHALT FRAGMENTS, TRACE ORGANICS (FILL), MOIST TO DAMP		653.3		2 2 4		GR CS FS SI CL LL PL WC		PI WC	
				1					
				2					
				3 4 4					
				4					
				5					
				6 3 3		0 12 15 38 35 33 13 20		19	
				7					
				8 2 3 4					
				9					
				10 13 30/2"					
				11					
				12					
				13 2 3 4		0 7 17 33 43 39 17 22		16	
				14					
				15					
				16 2 2 2					
				17					
				18 0 1 4					
				19					
				20					
				21 0 4 13					
				22					
				23 3 3 2		0 32 50 5 13 19 17 2		17	
				24					
				25					
				26 2 3 5					
				27					
				28 3 4 7					
				29					
				30 9 7 19					
				31 6					
				32					
				33 3 3 5		0 0 75 21 4 NP NP NP		6	
				34					
				35					
				36 3 5 7					
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				38 7 10 37					
				39 15					
				40					
				41 10 12 17		0 5 80 10 5 NP NP NP		19	
				42					
				43 9 10 30					
				44 10					
				45 7 9 28					
				46 10					
				47					
				48					
				49 9 12 36					
				50 12					
				EOB					
				605.3					
				603.8					
				628.8					
				631.3					
				636.3					
SOFT TO MEDIUM STIFF, BROWN, SILTY CLAY, SOME SAND, TRACE GRAVEL, MOIST									
LOOSE, BROWN, COARSE AND FINE SAND, LITTLE CLAY, TRACE SILT, MOIST									
MEDIUM DENSE TO DENSE, BROWN, COARSE AND FINE SAND, LITTLE TO SOME SILT, TRACE CLAY, MOIST TO WET									
MEDIUM DENSE, GRAY, SANDY SILT, TRACE CLAY, MOIST									

STANDARD ODOT SOIL BORING LOG (11 X 17) - OH DOT.GDT - 5/4/20 10:51 - C:\SERV\SAS\TISHIKUMAR\DESKTOP\HAM-71-DANA AVE (PID 111536).GP

NOTES: NONE
ABANDONMENT METHODS, MATERIALS, QUANTITIES: PLACED BENTONITE GROUT

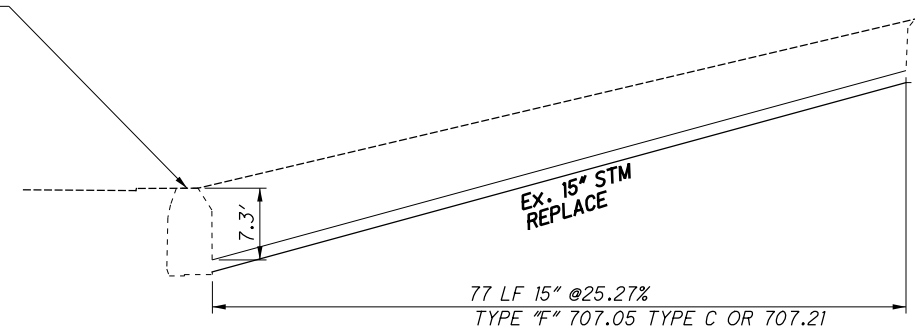


RAMP LOCATION MAP



234
 Ex. CITY OF CINCI MH-1
 GRATE ELEV=668.31 *PER RECORD*
 Ex. 15" STM N 661.06 *PER RECORD* - REMOVE
 15" STM 661.06
 (CONTRACTOR TO FIELD VERIFY)

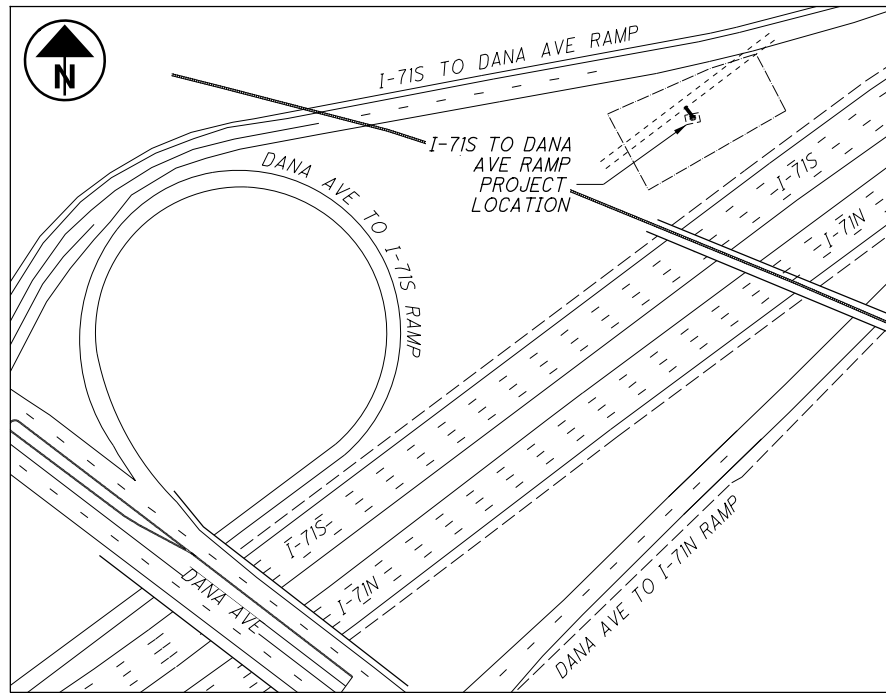
233
 Ex. CITY OF CINCI MH-A
 GRATE ELEV 650.07 *PER RECORD*
 Ex. 15" STM E 641.60 *PER RECORD* - REMOVE
 15" STM E 641.60
 (CONTRACTOR TO FIELD VERIFY)



ESTIMATED QUANTITIES (HAM-71-6.03 - DANA AVE TO I-71N RAMP)			
ITEM	GRAND TOTAL	UNIT	DESCRIPTION
202	77	FT	PIPE REMOVED, 24" AND UNDER
503	LS	LS	COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN
611	77	FT	15" CONDUIT, TYPE F 707.05 TYPE C OR 707.21

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PROPOSED PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, SUCH DETAILS AND DIMENSIONS ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK, BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04. BASE THE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.



RAMP LOCATION MAP

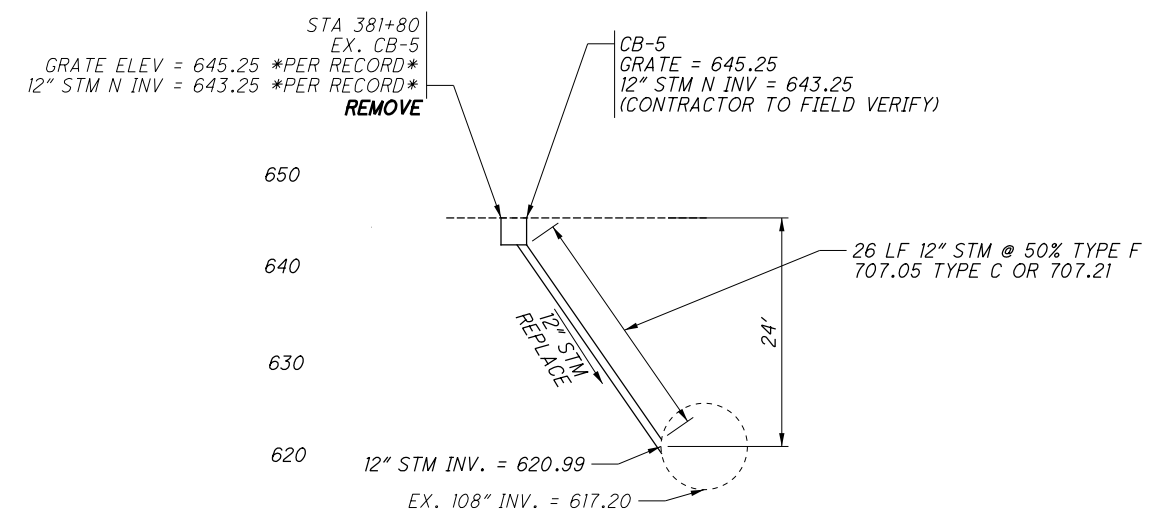
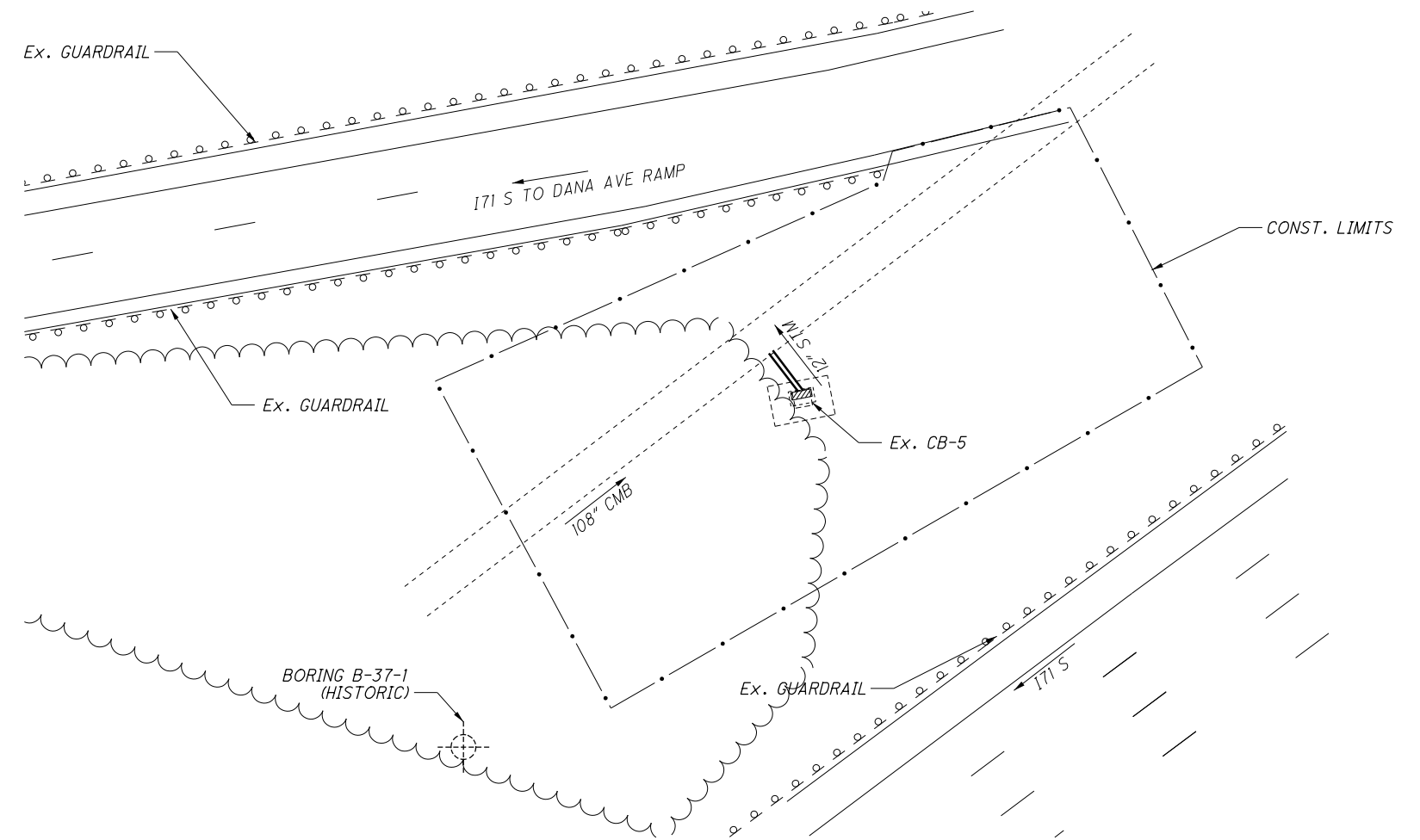
NOTES:

- USE EXTREME CAUTION WHEN REMOVING THE EXISTING 12" TIE IN TO THE EXISTING 108" COMBINED SEWER TO ENSURE THE EXISTING 108" IS NOT DAMAGED. USE METHODS SUCH AS HAND CHIPPING AND WIRE BRUSH TO REMOVE THE EXISTING GROUT SURROUNDING THE EXISTING 12" PIPE. CONNECT THE PROPOSED 15" CONDUIT TO THE 108" COMBINED SEWER, UTILIZING THE EXISTING OPENING FROM THE EXISTING CONDUIT. FOLLOW THE REQUIREMENTS IN 611.10B FOR THE CONNECTION. ENSURE THE GROUT BETWEEN THE EXISTING AND PROPOSED CONDUITS IS SMOOTH AND HAS NO GAPS.

ESTIMATED QUANTITIES (HAM-71-6.03 - I-715 TO DANA AVE RAMP)			
ITEM	GRAND TOTAL	UNIT	DESCRIPTION
202	26	FT	PIPE REMOVED, 24" AND UNDER
202	1	EA	CATCH BASIN REMOVED
503	LS	LS	COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN
611	26	FT	12" CONDUIT, TYPE F 707.05 TYPE C OR 707.21
611	100	FT	CONDUIT, MISC.: VIDEO LOG
611	1	EA	CATCH BASIN, NO. 5

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PROPOSED PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, SUCH DETAILS AND DIMENSIONS ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK, BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04. BASE THE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.



CALCULATED
MLB
CHECKED
TRB

0 20 40
10
HORIZONTAL
SCALE IN FEET

**I-715 TO DANA AVE RAMP
STORM SEWER REPLACEMENT PLAN & PROFILE**

**HAM-71-6.03
DANA AVE RAMP**

7
8

THE H. C. NUTTING COMPANY

4120 AIRPORT ROAD
CINCINNATI 26, OHIO

TESTING ENGINEERS AND SOILS CONSULTANTS B-1949 jlt
1-27-66

"AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC, AND OURSELVES, ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS, AND AUTHORIZATION FOR PUBLICATION OF STATEMENTS, CONCLUSIONS, OR EXTRACTS FROM OR REGARDING OUR REPORTS IS RESERVED PENDING OUR WRITTEN APPROVAL."

Field TEST BORING REPORT

CLIENT City of Cincinnati, Ohio ORDER No. 99.831
 PROJECT 0535 NEXY HAM-71 - 5.18 Montgomery Rd. to Burwood Ave. HOLE No. B-37-1
 LOCATION Station 380+62, 128' Left

DRILLER Martin W. DRILL No. 18 DATE STARTED 1-16-66
 ELEVATION REFERENCE 632.0 - Footer Elev. 660.0 DATE COMPLETED 1-17-66
 CASING: DIAMETER 3.5" I.D. Hollow Stem Auger HAMMER WT. FALL
 SAMPLER: DIAMETER & TYPE 2" O.D. Split Spoon HAMMER WT. 140# FALL 30"
 DEPTH TO WATER: IMMEDIATE 5" UPON COMPLETION 5'
 DEPTH TO WATER: DAYS AFTER COMPLETION Backfilled WATER USED IN DRILLING FROM 10'

ELEVATION	DEPTH	DESCRIPTION OF MATERIALS	SAMPLE No.	SAMPLE DEPTH	TYPE OF SAMPLE	BLOWS PER 6" ON SAMPLER or % Core Rec. Recovery	Recovery
632.0	0'		1	0-1.5	SS	7-8-10	8"
629.5'	2.5'	2.5' Cinders and brick, (fill) moist - medium dense	2	2.5-4	SS	4-5-6	16"
627.0'	5.0'	5.0' Brown sand clay with cinders and gravel (fill), moist - medium stiff	3	5-6.5	SS	1-2-2	17"
622.0'	10.0'	10.0' Brown sandy clay with fine sand layers, wet - soft	4	10-11.5	SS	5-8-11	18"
607.0'	25.0'	15.0' Brown fine sand, wet - medium dense	5	15-16.5	SS	9-14-15	18"
			6	20-21.5	SS	10-11-13	18"
			7	25-26.5	SS	10-13-16	17"
			8	30-31.5	SS	12-14-16	18"
597.0	35.0'	10.0' Gray silty sand, wet - medium dense	9	35-36.5	SS	4-5-6	15"
594.0'	40.0'	5.0' Gray silty clay with silt layers, wet - medium stiff	10	40-41.5	SS	5-9-13	18"
			11	45-46.5	SS	11-12-11	18"
			12	50-51.5	SS	8-14-15	18"
577.0'	55.0'	15.0' Gray sandy silt with silty clay layers, wet - medium dense	13	55-56.5	SS	5-9-11	18"

REMARKS:

As a mutual protection to the owners and ourselves, the engineer in the owner's behalf shall check this report with the samples submitted prior to the purchase of property, or designing of structures.

Respectfully submitted,

THE H. C. NUTTING CO.

By

