

Addendum # 1 -- 14-017.0-CIP -- E-Mail Coversheet

Waterford Village Stormwater Improvements

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Please sign, date and return by e-mail to hgeorge@dublin.oh.us to verify receipt of this addendum. Attach signed copy of addendum to bid package when submitting a bid.

Received by: _____ Date: _____



Date of Addendum
Sep 03, 2015

City of Dublin -- Division of Engineering
5800 Shier-Rings Road Dublin OH 43016
Phone (614) 410-4640 Fax (614) 761-650

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Waterford Village Stormwater Improvements

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Please sign, date and return by e-mail to hgeorge@dublin.oh.us to verify receipt of this addendum. Attach signed copy of addendum to bid package when submitting a bid.

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City of Dublin -- Division of Engineering
5800 Shier-Rings Road Dublin OH 43016
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**ADDENDUM NO. 1
to the contract for**

**Waterford Village Stormwater Improvements
Area 4 and 5
14-017-CIP
Bid Opening Date: September 8, 2015**

TO PROSPECTIVE BIDDERS: The following changes shall be made part of the contract documents for this project:

REQUEST FOR INFORMATION

- 1. What is the intended use of pay item #19 604 Manhole, Catch Basin or Inlet Modifications? I have been unable to find details regarding modifications of structures.*

The 7 each of Item 604 Manhole, Catch Basin or Inlet Modifications are for the City of Columbus AA-S133(A or B) with CoC AA-S112 frame and Dublin ST-03 cover.

- 2. The quantity for item #39 12" Storm Sewer only accounts for the storm installed in Area 5. There is 44' to be installed in Area 4 that is not included in the quantity.*

The total length of 12" conduit should be 516 LF. The bid tabs have been revised accordingly.

- 3. Plan sheet 3 calls for the abandonment of a 12" storm sewer. What line item is paying for this work?*

The following line item has been added to the plans to pay for the pipe abandonment:

202 12" Pipe Filled In Place 64 LF

PLAN SHEETS

Replace original plan sheet with revised plan sheet 3 dated September 3, 2015.

STORM SEWER:

- ALL STORM WATER DETENTION AND RETENTION AREAS AND MAJOR FLOOD ROUTING SWALES SHALL BE CONSTRUCTED TO FINISH GRADE AND HYDRO-SEEDED AND HYDRO-MULCHED ACCORDING TO ITEMS 203 AND 659 OF THE STANDARD SPECIFICATIONS.
- WHERE PRIVATE STORM SEWERS CONNECT TO PUBLIC STORM SEWERS, THE LAST RUN OF PRIVATE STORM SEWER CONNECTING TO THE PUBLIC STORM SEWER SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C76, WALL B, CLASS IV FOR PIPE DIAMETERS 12 INCHES TO 15 INCHES, CLASS III FOR 18 INCHES TO 24 INCH PIPES, AND 27 INCHES AND LARGER PIPE SHALL BE CLASS II, UNLESS OTHERWISE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. INSPECTION IS REQUIRED BY THE CITY OF DUBLIN'S DIVISION OF ENGINEERING.
- GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 636, TYPE III OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER.
- ALL STORM SEWERS SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C76, WALL B, CLASS IV FOR PIPE DIAMETERS 12 INCHES TO 15 INCHES, CLASS III FOR 18 INCHES TO 24 INCH PIPES, AND 27 INCHES AND LARGER PIPE SHALL BE CLASS II, UNLESS OTHERWISE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS.
- HEADWALLS AND ENDWALLS SHALL BE REQUIRED AT ALL STORM SEWER INLETS OR OUTLETS TO AND FROM STORMWATER MANAGEMENT FACILITIES. NATURAL STONE AND/OR BRICK APPROVED BY THE CITY ENGINEER SHALL BE PROVIDED ON ALL VISIBLE HEADWALLS AND/OR ENDWALLS SURFACES.
- STORM INLETS OR CATCH BASINS SHALL BE CHANNELIZED AND HAVE BICYCLE SAFE GRATES. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO AND ALL CURB INLET AND CATCH BASIN GRATES SHALL INCLUDE ENGRAVED LETTERING; "DUMP NO WASTE; DRAINS TO RIVER."

CITY OF COLUMBUS DIVISION OF WATER, GENERAL NOTES:

- THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, 2012 EDITION AND ALL REVISIONS, INCLUDING ALL SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE A PART OF THIS PLAN, UNLESS OTHERWISE NOTED.
- ALL WATER MAIN MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT RULES AND REGULATIONS OF THE CITY OF COLUMBUS, DIVISION OF WATER. ALL CITY OF COLUMBUS, DIVISION OF WATER STANDARD DRAWINGS SHALL APPLY TO THE PROJECT, UNLESS OTHERWISE NOTED.
- FOR ANY EMERGENCIES INVOLVING THE WATER DISTRIBUTION SYSTEM, PLEASE CONTACT THE DIVISION OF WATER DISTRIBUTION MAINTENANCE OFFICE AT 614-645-7788.
- ALL BRASS FITTINGS ASSOCIATED WITH WATER WORK, INCLUDING REPAIRS TO THE EXISTING SYSTEM, SHALL CONFORM TO THE **REVISED ALLOWABLE LEAD EXTRACTION LIMIT PER THE UPDATED NSF/ANSI 61 STANDARD**. THE DIVISION OF WATER'S APPROVED MATERIALS LIST HAS BEEN UPDATED TO REFLECT THIS REQUIREMENT.
- IT SHALL BE UNLAWFUL FOR ANY PERSON TO PERFORM ANY WORK ON CITY OF COLUMBUS WATER LINE SYSTEMS WITHOUT FIRST SECURING LICENSE TO ENGAGE IN SUCH WORK, AS INDICATED IN COLUMBUS CITY CODE SECTION 1103.02 AND 1103.06. THIS WORK INCLUDES ANY ATTACHMENTS, ADDITIONS TO OR ALTERATIONS IN ANY CITY SERVICE PIPE OR APPURTENANCES (INCLUDING WATER SERVICE LINES AND TAPS). THIS REQUIREMENT MAY BE MET BY UTILIZATION OF A SUBCONTRACTOR WHO HOLDS A CITY OF COLUMBUS WATER CONTRACTOR LICENSE OR A COMBINED WATER/SEWER CONTRACTOR LICENSE TO PERFORM THIS WORK. UTILIZATION OF A SUBCONTRACTOR MUST MEET THE LICENSING REQUIREMENTS OF CITY OF COLUMBUS BUILDING CODE, IN PARTICULAR SECTION 4114.119 AND 4114.529.
- NO PERSON SHALL BEGIN CONSTRUCTION OR INSTALLATION OF A PUBLIC WATER MAIN UNTIL PLANS HAVE BEEN APPROVED BY THE STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA).
- APPROVAL ON THE PART OF THE CITY OF COLUMBUS IS GIVEN PURSUANT TO THE PROVISIONS OF THE WATER SERVICE AGREEMENT BETWEEN THE CITY OF DUBLIN AND THE CITY OF COLUMBUS, OHIO, ON APRIL 13, 1993 AND ALL SUBSEQUENT AMENDMENTS THEREOF.
- THE CONTRACTOR SHALL OBTAIN THE PROPER HYDRANT PERMIT(S), AND PAY ANY APPLICABLE FEES, FOR ANY APPROVED HYDRANT USAGE DEEMED NECESSARY FOR WORK UNDER THIS IMPROVEMENT. PERMITS MAY BE OBTAINED THROUGH THE DIVISION OF WATER PERMIT OFFICE (645-7330). THE CONTRACTOR SHALL ADHERE TO ALL RULES & REGULATIONS GOVERNING SAID PERMIT AND MUST HAVE THE ORIGINAL PERMIT ON SITE ANYTIME IN WHICH THE HYDRANT IS IN USE. COST TO BE INCLUDED IN THE VARIOUS BID ITEMS.
- ALL WATER MAINS SHALL BE CLEANED AND FLUSHED, AND ANY WATER MAIN 12-INCH AND LARGER MUST BE PROPERLY PIGGED, IN ACCORDANCE WITH SECTION 801.13 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS.
- ALL WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH SECTION 801.14 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, WITH THE FOLLOWING EXCEPTION: **150 PSI OF PRESSURE SHALL BE MAINTAINED FOR AT LEAST TWO HOURS IN ANY TESTED SECTION. THE CITY MAY NOT APPROVE ANY TEST LASTING LESS THAN TWO HOURS REGARDLESS OF THE AMOUNT OF LEAKAGE.**
- ALL WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH SECTION 801.15 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS. SPECIAL ATTENTION IS DIRECTED TO APPLICABLE SECTIONS OF A.W.W.A. C-651. WHEN THE WATER MAINS ARE READY FOR DISINFECTION, THE CITY OF DUBLIN SHALL SUBMIT A WRITTEN REQUEST FOR CHLORINATION OF THE MAINS THAT NEED DISINFECTED, THREE (3) SETS OF "AS-BUILT" PLANS (FULL SIZE SHEETS ONLY), THE AS-BUILT SURVEY COORDINATES, WATER SERVICE REPORTS AND A PRESSURE TEST TO THE CITY OF COLUMBUS, DIVISION OF WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE DISINFECTION OF ALL WATER MAINS CONSTRUCTED UNDER THIS PLAN.
- ONLY ONE CONNECTION TO AN EXISTING WATER LINE IS PERMITTED BEFORE DISINFECTION OF A NEW WATER LINE HAS BEEN COMPLETED. ALL OTHER CONNECTIONS MUST BE MADE AFTER THE LINE HAS BEEN DISINFECTED.
- WHERE INDICATED ON THE PLANS, THE EXISTING WATER MAIN SHALL BE ABANDONED; AND ANY EXISTING WATER SERVICES OFF THIS MAIN SHALL BE TRANSFERRED TO THE NEW WATER MAIN. PRIOR TO ABANDONMENT OF THE EXISTING WATER MAIN, THE PROPOSED WATER MAIN SHALL BE PIGGED (IF REQUIRED), TESTED, CHLORINATED AND PUT IN SERVICE AND THEN THE EXISTING WATER SERVICES SHALL BE TRANSFERRED. THE CONTRACTOR SHALL MAINTAIN WATER SERVICES TO ALL PROPERTIES DURING CONSTRUCTION OF THE NEW WATER MAIN AND SHALL NOTIFY ALL CUSTOMERS AFFECTED BY THE TRANSFER OF SERVICES. TO ENSURE THAT ALL EXISTING SERVICES ARE TRANSFERRED TO THE NEW MAIN, NO WATER MAIN SHALL BE ABANDONED UNTIL THE NEW WATER MAIN HAS BEEN PUT IN SERVICE; ALL AFFECTED WATER SERVICES HAVE BEEN TRANSFERRED; AND THE EXISTING WATER MAIN TO BE ABANDONED HAS BEEN SHUT DOWN FOR 24 HOURS. ALL VISIBLE VALVE BOXES, FIRE HYDRANTS, AND SERVICE BOXES ON THE WATER MAIN TO BE ABANDONED, WHICH WILL NO LONGER BE IN SERVICE, SHALL BE REMOVED. ALL WATER MAINS TO BE ABANDONED SHALL BE MADE WATER TIGHT. THE REQUIRED SURFACE RESTORATION SHALL BE PAID FOR UNDER THE APPROPRIATE BID ITEM(S).
- NO SERVICE CONNECTION PERMITS SHALL BE ISSUED OR CONNECTIONS MADE TO ANY SERVICE TAPS UNTIL WATER MAINS HAVE BEEN DISINFECTED BY THE CITY OF COLUMBUS, DIVISION OF WATER.
- WATER SERVICE BOXES SHALL BE PLACED 1' FROM THE EDGE OF THE PROPOSED OR EXISTING SIDEWALK BETWEEN THE SIDEWALK AND THE CURB, OR 2 FEET INSIDE THE RIGHT-OF-WAY OR EASEMENT LINE WHEN NO SIDEWALK IS PRESENT OR PROPOSED. REFER TO STANDARD DRAWING L-9901 FOR ADDITIONAL INFORMATION.

- MAINTAIN EIGHTEEN (18) INCHES VERTICAL AND TEN (10) FEET HORIZONTAL SEPARATION BETWEEN ANY SANITARY OR STORM SEWER PIPING AND ALL PROPOSED WATER MAINS.
- WHEN CONTROLLED DENSITY FILL (ITEM 613) IS TO BE USED AS BACKFILL, THE CONTRACTOR SHALL PROVIDE SIZE NO. 57 CRUSHED CARBONATE STONE (CCS) 1 FOOT BELOW TO 1 FOOT ABOVE THE EXISTING WATER LINE.
- NO WATER SERVICE CONSTRUCTION, **BEFORE OR AFTER METER(S)**, SHALL BEGIN PRIOR TO THE WATER SERVICE PERMIT(S) BEING ISSUED AND FEE PAYMENT(S) TO THE COLUMBUS DIVISION OF WATER.
- WATER SERVICES SHALL BE FLUSHED BY THE SITE UTILITY CONTRACTOR PRIOR TO METER INSTALLATION. INSPECTION OF THIS FLUSHING SHALL BE DONE BY CALLING (614) 645-5781. A 24 HOUR ADVANCE NOTICE IS REQUIRED. ANY METER DAMAGE CAUSED BY NON-FLUSHING SHALL BE PAID BY THE SITE UTILITY CONTRACTOR.
- "SURVEY COORDINATES" SHALL INCLUDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO OBTAIN HORIZONTAL AND VERTICAL (NORTHING, EASTING, AND ELEVATION) SURVEY COORDINATES FOR THE WATER MAIN IMPROVEMENTS. THE SURVEY COORDINATES SHALL BE OBTAINED FOR THE COMPLETED WATER MAIN CONSTRUCTION AND SHALL INCLUDE ALL VALVES, TEES, CROSSES, BENDS, DEFLECTIONS, PLUGS, REDUCERS, TAPPING SLEEVES, FIRE HYDRANTS, AIR RELEASES, CURB STOPS, CASING PIPE TERMINI, AND OTHER FITTINGS. ADDITIONAL SURVEY COORDINATES ARE REQUIRED ON THE WATER MAIN EVERY 500' WHERE NO FITTING OR OTHER WATER MAIN STRUCTURE IS BEING INSTALLED WITHIN THAT LENGTH OF THE IMPROVEMENT.

ALL SURVEY COORDINATES SHALL BE REFERENCED TO THE APPLICABLE COUNTY ENGINEER'S MONUMENTS, AND SHALL BE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83) WITH THE (NSRS2007) ADJUSTMENT, WITH FURTHER REFERENCE MADE TO THE OHIO STATE PLANE SOUTH COORDINATE SYSTEM, SOUTH ZONE, WITH ELEVATIONS BASED ON NAVD 88 DATUM. ALL COORDINATES (NORTHING, EASTING, ELEVATION) SHALL BE REFERENCED TO THE NEAREST HUNDRETH (N XXXXXX.XX, E XXXXXX.XX, ELEV. XXX.XX). ALL SURVEY COORDINATES SHALL BE ACCURATE TO WITHIN 1.0 FOOT HORIZONTAL AND A TENTH OF A FOOT (0.10) OR LESS VERTICAL.

THE COORDINATES SHALL BE DOCUMENTED TO THE MUNICIPALITY ENGINEER OR DESIGNATED REPRESENTATIVE IN DIGITAL SPREADSHEET FORM AND SHALL INCLUDE THE APPLICABLE ITEM, STATION, NORTHING, EASTING, AND ELEVATION. COORDINATES SHALL BE SUBMITTED TO THE MUNICIPALITY ENGINEER OR DESIGNATED REPRESENTATIVE ON A BI-WEEKLY BASIS. COORDINATES SHALL ALSO BE REQUIRED TO BE SUBMITTED TO THE DIVISION OF WATER AS PART OF THE REQUEST FOR CHLORINATION.

LUMP SUM PAYMENT IS FULL COMPENSATION FOR ALL WORK INVOLVED IN OBTAINING AND DOCUMENTING THE SURVEY COORDINATES AS DESCRIBED IN THIS SPECIFICATION.

NOTE TO CONSULTANT: PROVIDE THE X, Y, Z COORDINATE TABLE FOR PROPOSED WORK AND BLANK SPACES FOR AS-BUILTS ON THE SHEETS AS REQUIRED BY THE C.O.C. WATER DISTRIBUTION ENGINEERING SECTION.

- THE CONTRACTOR SHALL COORDINATE HIS WORK SUCH THAT NO WATER CUSTOMER WILL HAVE THEIR SERVICE DISRUPTED MORE THAN TWO (2) TIMES THROUGHOUT THE DURATION OF THIS PROJECT.

ROCK RIFFLE SPECIFICATIONS:

- ONLY EMBEDDED (NOT VISIBLE) BASE STONE MAY BE QUARRIED LIMESTONE MATERIAL. NO CONSTRUCTION RUBBLE IS PERMISSIBLE. ALL FILL STONE USED TO FINISH THE ROCK RIFFLE (ALL VISIBLE ROCK) SHALL BE RIVER ROCK, CONSISTING OF ROUNDED STONE WITH NATURAL HUES. THE CONTRACTOR SHALL REVIEW SAMPLES OF THIS MATERIAL WITH THE CITY OF DUBLIN FOR APPROVAL PRIOR TO DELIVERY OF MATERIAL. SEE RIFFLE MATERIALS TABLE FOR DESCRIPTIONS AND SIZES OF MATERIALS.
- BASE STONE**
 - INSTALLATION: BASE STONE MUST BE PLACED TIGHTLY. FINISHED ELEVATIONS OF THE BASE STONE MUST CONCENTRATE FLOWS ACROSS THE CENTER OF THE RIFFLE AND CREATE NON-LAMINAR (TURBULENT) FLOW.
- FILL STONE**
 - INSTALLATION: AFTER INSTALLATION OF THE BASE STONE, FILL ALL VOIDS WITH FILL STONE. THE FILL STONE SHALL HIDE ALL OF LARGER SUPPORT STONE TO CREATE A NATURAL STREAM LOOK.
- PAYMENT**
 - THE COST OF ALL LABOR AND MATERIALS ASSOCIATED WITH THE CONSTRUCTION OF ROCK RIFFLES AS SHOWN ON THIS PLAN, INCLUDING SUPPORT AND FILL STONES, SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 601, ROCK CHANNEL PROTECTION (ROCK RIFLE).

RIFFLE MATERIAL TABLE	
BASE STONE	ROCK CHANNEL PROTECTION, TYPE C TYPE C MATERIAL HAS AT LEAST 85 PERCENT OF THE TOTAL MATERIAL BY WEIGHT LARGER THAN 6-INCH BUT LESS THAN AN 18-INCH SQUARE OPENING AND AT LEAST 50 PERCENT OF THE TOTAL MATERIAL BY WEIGHT LARGER THAN A 12-INCH SQUARE OPENING. FURNISH MATERIAL SMALLER THAN A 6-INCH SQUARE OPENING THAT CONSISTS OF FILL ROCKS. SEE DESCRIPTION BELOW.
FILL STONE	FILL STONE SHALL HAVE A GRADATION OF SIZES SUCH THAT AT LEAST 85% OF THE MATERIAL BY WEIGHT SHALL BE BETWEEN 1" AND 6" IN DIAMETER, 50% OF WHICH SHALL BE LARGER THAN 3" IN DIAMETER.

WATER SERVICE COORDINATE TABLE					
WATER SERVICE IMPROVEMENT	SIZE	STATION	AS-BUILT LOCATION		
			NORTHING	EASTING	@ ELEVATION
348 LONGBRANCH DRIVE - NEW CURB STOP/CURB BOX	3/4"	9+01			
340 LONGBRANCH DRIVE - NEW CURB STOP/CURB BOX	3/4"	8+28			
365 AVON COURT - NEW CURB STOP/CURB BOX	3/4"	7+56			
302 LONGBRANCH DRIVE - NEW CURB STOP/CURB BOX	3/4"	5+28			
294 LONGBRANCH DRIVE - NEW CURB STOP/CURB BOX	3/4"	4+52			
286 LONGBRANCH DRIVE - NEW CURB STOP/CURB BOX	3/4"	3+69			
278 LONGBRANCH DRIVE - NEW CURB STOP/CURB BOX	3/4"	2+90			
260 LONGBRANCH DRIVE - NEW CURB STOP/CURB BOX	3/4"	1+15			
279 WATERFORD DRIVE - NEW CURB STOP/CURB BOX	3/4"	1+08			

* WATER SERVICE CURB STOP ELEVATIONS SHALL COMPLY WITH STANDARD DRAWING L-7102C AND L-9901 (MINIMUM COVER IS 42 INCHES, MAXIMUM COVER IS 60 INCHES)

ESTIMATE OF QUANTITIES			
ITEM	QUANTITY	UNIT	DESCRIPTION
201	1	LS	CLEARING AND GRUBBING
202	100	LF	PIPE REMOVED (12" RCP STORM)
202	58	LF	PIPE REMOVED (18" RCP STORM)
202	70	LF	PIPE REMOVED (24" RCP STORM)
202	64	LF	12" PIPE FILLED IN PLACE
202	1	EACH	CONCRETE HEADWALL REMOVED
202	650	SF	WALK REMOVED
202	275	LF	CURB AND GUTTER REMOVED
202	1	EACH	CURB RAMP REMOVED
207	16	EACH	INLET PROTECTION
207	100	LF	TREE PROTECTION FENCE
254	4,300	SY	PAVEMENT PLANNING, ASPHALT CONCRETE
259	330	CY	PERMANENT PAVEMENT REPLACEMENT, TYPE I (CoC STD. DWG. 1441)
407	490	GAL.	TACK COAT, NTSS-1HM TRACKLESS TACK, APPLIED AT 0.075 GAL/SY
448	150	CY.	ASPHALT CONCRETE, SURFACE COURSE (MEDIUM TRAFFIC), PG64-22
601	20	CY	ROCK CHANNEL PROTECTION (ROCK RIFFLE)
604	8	EACH	MANHOLES
604	3	EACH	CATCH BASINS
604	2	EACH	INLETS
604	7	EACH	MANHOLE, CATCH BASIN OR INLET MODIFICATION
604	1	EACH	PRECAST REINFORCED CONCRETE OUTLET (36" PIPE CULVERT HEADWALL)
608	650	SF	CONCRETE WALK, AS PER PLAN
608	1	EACH	CURB RAMP
609	275	LF	COMBINATION CURB AND GUTTER
614	1	LS	MAINTAINING TRAFFIC
623	1	LS	CONSTRUCTION LAYOUT STAKES
624	1	LS	MOBILIZATION
644	94	LF	STOP LINE
644	75	LF	CROSSWALK LINE
644	25	LF	LANE LINE
644	44	LF	CHANNELIZING LINE
647	2	EACH	SPEED HUMP MARKING
651	40	CY	TOPSOIL STOCKPILED
652	40	CY	PLACING STOCKPILED TOPSOIL
659	240	SY	SEEDING AND MULCHING, AS PER PLAN
808	1	EACH	RELOCATE 12 INCH WATER LINE PER PLAN
808	1	EACH	RELOCATE 8 INCH WATER LINE PER PLAN
808	1	EACH	RELOCATE 6 INCH WATER LINE PER PLAN
816	9	EACH	3/4 INCH WATER SERVICE TAP RELOCATED
901	472	LF	12" CLASS IV, RCP STORM SEWER, W/ CONCRETE ENCASEMENT, W/ TYPE 1 BEDDING, WITH ITEM 912 BACKFILL
901	1,049	LF	30" CLASS III, RCP STORM SEWER, W/ CONCRETE ENCASEMENT, W/ TYPE 1 BEDDING, WITH ITEM 912 BACKFILL
901	50	LF	36" CLASS III, RCP STORM SEWER, W/ CONCRETE ENCASEMENT, W/ TYPE 1 BEDDING, WITH ITEM 911 BACKFILL
SPEC	1	EACH	DETECTABLE WARNING MAT BY ADA SOLUTIONS, 2'X4', BRICK RED
SPEC	1	LS	SURVEY COORDINATES
SPEC	1	LS	TRAFFIC LOOP REPAIR, AS PER PLAN
SPEC	1	LS	SPEED HUMP, MONTEREY DRIVE, AS PER PLAN

STORM STRUCTURE COORDINATE TABLE			
AREA 4 - WATERFORD VILLAGE	PROPOSED LOCATION		
	STATION	NORTHING	EASTING
STM STRUCTURE #1 (36" PRECAST PIPE CULVERT HEADWALL)	0+00	N 761556.16	E 1795039.70
STM STRUCTURE #2 (MANHOLE)	0+50	N 761565.36	E 1794990.13
STM STRUCTURE #3 (MANHOLE)	1+56	N 761464.77	E 1794956.87
STM STRUCTURE #4 (MANHOLE)	2+24	N 761436.53	E 1794895.77
STM STRUCTURE #5 (MANHOLE)	2+82	N 761434.95	E 1794837.57
STM STRUCTURE #6 (MANHOLE)	5+14	N 761432.35	E 1794605.91
STM STRUCTURE #7 (MANHOLE)	7+45	N 761429.75	E 1794374.26
STM STRUCTURE #8 (MANHOLE)	9+86	N 761427.04	E 1794133.03
STM STRUCTURE #9 (MANHOLE)	10+41	N 761462.50	E 1794051.00
STM STRUCTURE #10 (CURB AND GUTTER INLET)	10+89	N 761447.28	E 1794045.91
STM STRUCTURE #11 (CATCH BASIN)	10+99	N 761444.74	E 1794035.98
AREA 5 - WATERFORD VILLAGE	STATION	NORTHING	EASTING
STM STRUCTURE #12 (MANHOLE)	0+00	N 763553.19	E 1795483.61
STM STRUCTURE #13 (MANHOLE)	2+14	N 763580.80	E 1795271.76
STM STRUCTURE #14 (MANHOLE)	3+90	N 763413.65	E 1795216.58
STM STRUCTURE #15 (CURB AND GUTTER INLET)	2+19	N 763583.08	E 1795247.05

ALL STORM STRUCTURES SHALL COMPLY WITH THE CITY OF COLUMBUS AND CITY OF DUBLIN STANDARD CONSTRUCTION DRAWINGS.

File: L:\Projects\14573713\CIVIL\SHEETS\C1-1.dwg | Layout: C1-1 | Plot Date: Sep 03, 2015 | 11:21am | Plotted By: fonda_weiker

NO:	REVISIONS	DATE:	BY:	CHK:
▲	ADDED QUANTITY FOR PIPE FILLED IN PLACE	9/03/2015	FGW	WJ



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CITY OF DUBLIN, OHIO
WATERFORD VILLAGE STORMWATER
IMPROVEMENTS
14-017-CIP

JOB NO:	14573713
DESIGNED BY:	KTH
DRAWN BY:	KTH
CHECKED BY:	WJ
APPROVED BY:	WJ
DATE:	7/15/2015

CITY OF COLUMBUS
GENERAL NOTES

SCALE: AS SHOWN	
SHEET NAME: C1-1	SHEET NO: 3 OF 18

BID SCHEDULE

BIDDER agrees to perform all work described in the CONTRACT DOCUMENTS for the following unit prices:

**Waterford Village Stormwater Improvements
Area 4 and 5**

CITY OF DUBLIN

REF NO.	(1) ITEM	(2) DESCRIPTION	(3) QUANT.	(4) UNIT	(5) LABOR (\$)	(6) MATERIAL (\$)	(7) (5)+(6) TOTAL (\$)	(8) (3) x (7) TOTAL EXTENDED INFORMAL PRICE (\$)
1	201	CLEARING AND GRUBBING	1	LS				
2	202	PIPE REMOVED (12" RCP STORM)	100	LF				
3	202	PIPE REMOVED (18" RCP STORM)	58	LF				
4	202	PIPE REMOVED (24" RCP STORM)	70	LF				
5	202	12" PIPE FILLED IN PLACE	64	LF				
6	202	CONCRETE HEADWALL REMOVED	1	EACH				
7	202	WALK REMOVED	650	SF				
8	202	CURB AND GUTTER REMOVED	275	LF				
9	202	CURB RAMP REMOVED	1	EACH				
10	207	INLET PROTECTION	16	EACH				
11	207	TREE PROTECTION FENCE	100	LF				
12	254	PAVEMENT PLANING, ASPHALT CONCRETE	4,300	SY				
13	259	PERMANENT PAVEMENT REPLACEMENT TYPE I (COC STD. DWG. 1441)	330	CY				
14	407	TACK COAT, NTSS-1HM TRACKLESS TACK, APPLIED AT 0.075 GAL/SY	490	GAL.				
15	448	ASPHALT CONCRETE, SURFACE COURSE (MEDIUM TRAFFIC), PG64-22	150	CY				
16	601	ROCK CHANNEL PROTECTION (ROCK RIFFLE)	20	CY				
17	604	MANHOLES	8	EACH				
18	604	CATCH BASINS	3	EACH				
19	604	INLETS	2	EACH				
20	604	MANHOLE, CATCH BASIN OR INLET MODIFICATION	7	EACH				
21	604	PRECAST REINFORCED CONCRETE OUTLET (36" PIPE CULVERT HEADWALL)	1	EACH				
22	608	CONCRETE WALK, AS PER PLAN	650	SF				
23	608	CURB RAMP	1	EACH				
24	609	COMBINATION CURB AND GUTTER	275	LF				
25	614	MAINTAINING TRAFFIC	1	LS				
26	623	CONSTRUCTION LAYOUT STAKES	1	LS				

BID SCHEDULE

BIDDER agrees to perform all work described in the CONTRACT DOCUMENTS for the following unit prices:

**Waterford Village Stormwater Improvements
Area 4 and 5**

CITY OF DUBLIN

REF NO.	(1) ITEM	(2) DESCRIPTION	(3) QUANT.	(4) UNIT	(5) LABOR (\$)	(6) MATERIAL (\$)	(7) (5)+(6) TOTAL (\$)	(8) (3) x (7) TOTAL EXTENDED INFORMAL PRICE (\$)
27	624	MOBILIZATION	1	LS				
28	644	STOP LINE	94	LF				
29	644	CROSSWALK LINE	75	LF				
30	644	LANE LINE	25	LF				
31	644	CHANNELIZING LINE	44	LF				
32	647	SPEED HUMP MARKING	2	EACH				
33	651	TOPSOIL STOCKPILED	40	CY				
34	652	PLACING STOCKPILED TOPSOIL	40	CY				
35	659	SEEDING AND MULCHING, AS PER PLAN	240	SY				
36	808	RELOCATE 12 INCH WATER LINE	1	EACH				
37	808	RELOCATE 8 INCH WATER LINE	1	EACH				
38	808	RELOCATE 6 INCH WATER LINE	1	EACH				
39	816	3/4 INCH WATER SERVICE TAP RELOCATED	9	EACH				
40	901	12" STORM SEWER, WITH CONCRETE ENCASEMENT, WITH TYPE I BEDDING, WITH ITEM 912 COMPACTED GRANULAR MATERIAL	516	LF				
41	901	30" STORM SEWER, WITH CONCRETE ENCASEMENT, WITH TYPE I BEDDING, WITH ITEM 912 COMPACTED GRANULAR MATERIAL	1,049	LF				
42	901	36" STORM SEWER, WITH CONCRETE ENCASEMENT, WITH TYPE 1 BEDDING, WITH ITEM 911 COMPACTED BACKFILL MATERIAL	50	LF				
43	SPEC	DETECTABLE WARNING MAT BY ADA SOLUTIONS, 2'X4', BRICK RED	1	EACH				
44	SPEC	SURVEY COORDINATES	1	LS				
45	SPEC	TRAFFIC LOOP REPAIR, AS PER PLAN	1	LS				
46	SPEC	SPEED HUMP, MONTEREY DRIVE, AS PER PLAN	1	LS				

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Area 4 and 5**

CITY OF DUBLIN

REF NO.	(1) ITEM	(2) DESCRIPTION	(3) QUANT.	(4) UNIT	(5) LABOR (\$)	(6) MATERIAL (\$)	(5)+(6) TOTAL (\$)	(7) TOTAL EXTENDED INFORMAL PRICE (\$)	(8) (3) x (7) TOTAL EXTENDED INFORMAL PRICE (\$)
<div style="text-align: right;">GRAND TOTAL = </div>									

<p>TOTAL BID FOR PROJECT: SUBMITTED BY: (COMPANY)</p>		
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