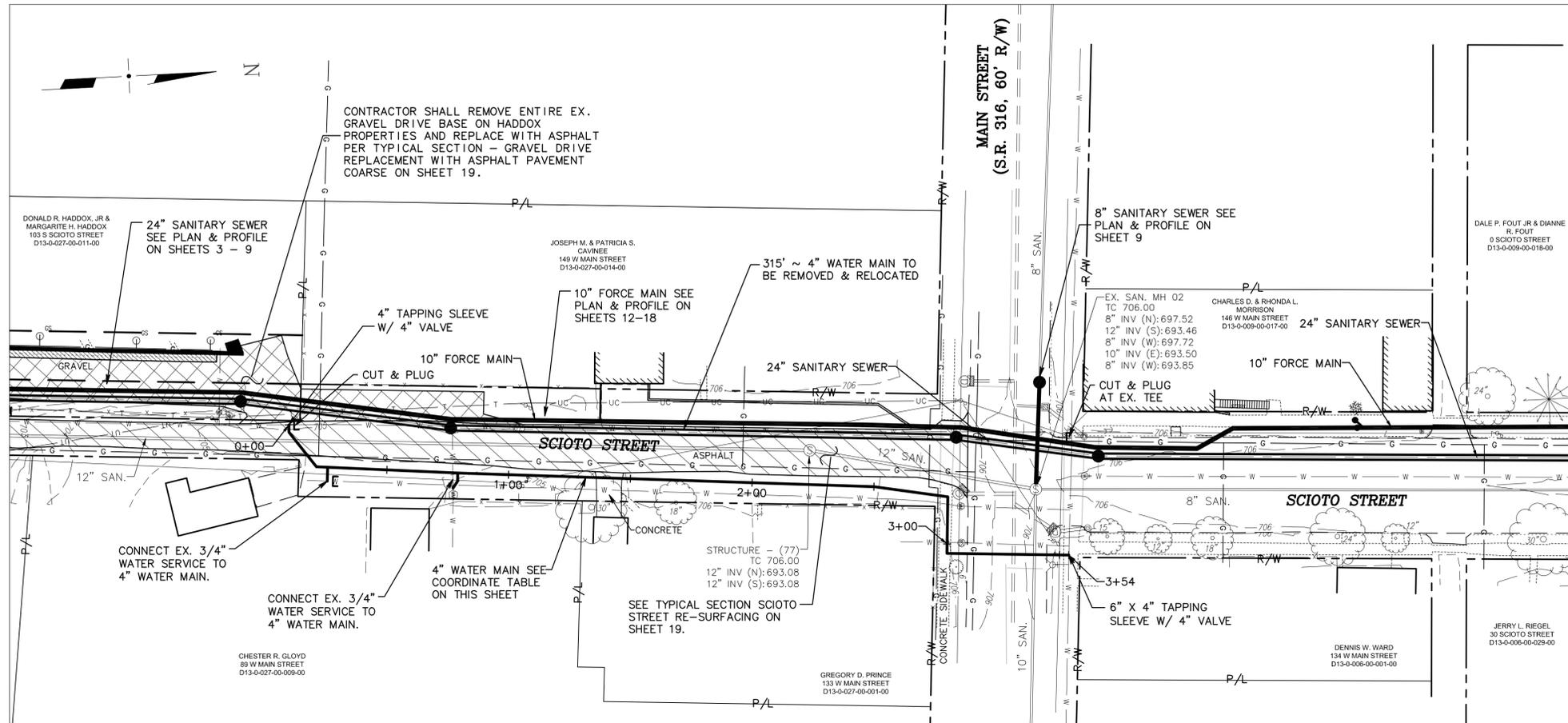
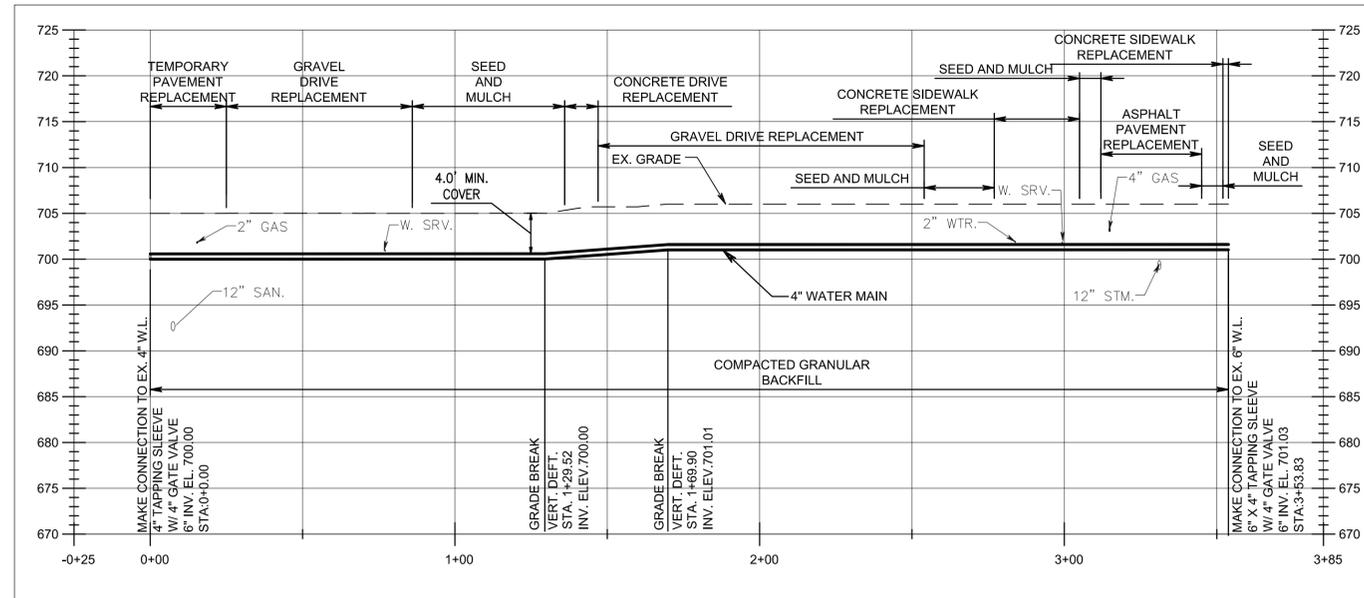


PLOT INFO: ANDREW.MARTIN02 L:\PROJECTS\14578119\CIVIL\8119-PP18B.DWG 09/22/16 2:49PM LTS: 1 PSLTS: 1



4" WATER MAIN COORDINATE TABLE						
LENGTH (FEET)	DIRECTION	START STATION	END STATION	END STATION		DESCRIPTION
				NORTHING	EASTING	
		START ALIGNMENT AT		623991.88	1839797.53	4" SLEEVE W/ 4" VALVE
3.047	S88° 48' 01.82"E	0+00.00	0+03.05	623991.82	1839800.58	45° BEND
18.002	N54° 30' 26.16"E	0+03.05	0+21.05	624002.27	1839815.24	45° BEND
4.608	N05° 29' 16.97"E	0+21.05	0+25.66	624006.85	1839815.68	WATER SERVICE
53.437	N05° 31' 14.08"E	0+25.66	0+79.09	624060.04	1839820.82	WATER SERVICE
170.906	N04° 52' 24.42"E	0+79.09	2+50.00	624230.33	1839835.34	PIPE DEFT
30.661	N10° 45' 39.03"E	2+50.00	2+80.66	624260.45	1839841.06	90° BEND
23.183	S86° 09' 52.94"E	2+80.66	3+03.84	624258.90	1839864.19	90° BEND
49.982	N03° 46' 27.36"E	3+03.84	3+53.83	624308.78	1839867.48	4"X6" SLEEVE W/ 4" VALVE



ISSUED FOR BIDDING \_\_\_\_\_ DATE \_\_\_\_\_ BY \_\_\_\_\_

ADDENDUM REVISIONS

ADDENDUM NO	ADDENDUM DATE	BY

ISSUED FOR CONSTRUCTION \_\_\_\_\_ DATE \_\_\_\_\_ BY \_\_\_\_\_

REVISIONS

NO. DESCRIPTION DATE BY

NO.	DESCRIPTION	DATE	BY

RECORD DRAWINGS \_\_\_\_\_ DATE \_\_\_\_\_ BY \_\_\_\_\_

DESIGNED AM DATE 07/01/2016  
 CHECKED MN JOB NO 14578119  
 SCALE HORZ: 1"=30' VERT: 1" = 10'

**4" WATER LINE PLAN & PROFILE**

**VILLAGE OF ASHVILLE  
 SANITARY SEWER  
 IMPROVEMENTS  
 (PART B)**

**URS Corporation**

10" FORCE MAIN COORDINATE TABLE						
LENGTH (FEET)	DIRECTION	START STATION	END STATION	END STATION		DESCRIPTION
				NORTHING	EASTING	
START 10" FORCE MAIN OUTSIDE OF (PART A) PS						
				623548.52	1839725.18	PS CONNECTION
66.11	N30° 09' 56.82"E	0+00.00	0+66.11	623605.68	1839758.40	22.5" BEND
75.80	N03° 53' 15.85"E	0+66.11	1+41.91	623681.31	1839763.54	HORZ. DEFT.
292.55	N03° 52' 14.44"E	1+41.91	4+34.46	623973.19	1839783.29	HORZ. DEFT.
86.77	N10° 17' 02.58"E	4+34.46	5+21.23	624058.56	1839798.78	HORZ. DEFT.
209.44	N03° 54' 24.86"E	5+21.23	7+30.67	624267.51	1839813.05	11.25" BEND
55.64	N11° 25' 28.94"E	7+30.67	7+86.31	624322.05	1839824.07	11.25" BEND
41.63	N03° 38' 14.38"E	7+86.31	8+27.94	624363.60	1839826.71	22.50" BEND
16.86	N26° 20' 01.65"W	8+27.94	8+44.80	624378.71	1839819.23	22.50" BEND
53.68	N02° 43' 23.71"E	8+44.80	8+98.48	624432.33	1839821.79	CLEAN OUT
267.67	N02° 42' 40.29"E	8+98.48	11+66.15	624699.70	1839834.45	45" BEND
6.87	N41° 44' 04.03"W	11+66.15	11+73.02	624704.83	1839829.88	45" BEND
26.59	N87° 38' 38.50"W	11+73.02	11+99.61	624705.92	1839803.31	11.25" BEND
32.71	S83° 46' 30.44"W	11+99.61	12+32.32	624702.37	1839770.79	11.25" BEND
206.09	N87° 31' 34.52"W	12+32.32	14+38.42	624711.27	1839564.88	AIR RELEASE VALVE
40.74	N87° 31' 34.52"W	14+38.42	14+79.16	624713.03	1839524.19	HORZ. DEFT.
57.67	N86° 42' 06.83"W	14+79.16	15+36.82	624716.34	1839466.61	HORZ. DEFT.
12.51	N87° 07' 29.72"W	15+36.82	15+49.34	624716.97	1839454.12	HORZ. DEFT.
102.11	N85° 53' 29.58"W	15+49.34	16+51.45	624724.29	1839352.27	HORZ. DEFT.
28.11	S88° 26' 00.60"W	16+51.45	16+79.56	624723.52	1839324.17	HORZ. DEFT.
222.91	N86° 50' 10.99"W	16+79.56	19+02.47	624735.82	1839101.60	45" BEND
46.40	N35° 32' 57.85"W	19+02.47	19+48.86	624773.57	1839074.62	45" BEND
127.71	N03° 28' 19.30"E	19+48.86	20+76.57	624901.04	1839082.36	CLEAN OUT
147.89	N03° 28' 19.30"E	20+76.57	22+24.46	625048.66	1839091.31	HORZ. DEFT.
123.49	N01° 12' 39.75"E	22+24.46	23+47.95	625172.13	1839093.92	HORZ. DEFT.
19.40	N03° 30' 45.83"E	23+47.95	23+67.36	625191.49	1839095.11	45" BEND
44.42	N33° 19' 42.26"E	23+67.36	24+11.77	625228.61	1839119.52	45" BEND
318.56	N03° 08' 29.10"E	24+11.77	27+30.33	625546.68	1839136.97	HORZ. DEFT.
269.59	N01° 00' 55.33"E	27+30.33	29+99.92	625816.23	1839141.75	HORZ. DEFT.
192.10	N00° 31' 38.78"W	29+99.92	31+92.01	626008.32	1839139.98	45" BEND
24.57	N37° 58' 10.49"W	31+92.01	32+16.58	626027.69	1839124.87	CLEAN OUT
5.00	N37° 58' 10.49"W	32+16.58	32+21.58	626031.63	1839121.79	45" BEND
136.57	N03° 17' 33.59"E	32+21.58	33+58.15	626167.97	1839129.63	AIR RELEASE VALVE
53.74	N03° 17' 33.59"E	33+58.15	34+11.90	626221.63	1839132.72	11.25" BEND
44.93	N12° 50' 24.84"E	34+11.90	34+56.83	626265.44	1839142.71	11.25" BEND
217.93	N03° 14' 39.02"E	34+56.83	36+74.77	626483.02	1839155.04	45" BEND
88.81	N45° 44' 23.08"W	36+74.77	37+63.58	626545.01	1839091.44	22.50" BEND
54.11	N26° 41' 10.58"W	37+63.58	38+17.68	626593.35	1839067.14	11.25" BEND
23.83	N13° 30' 56.43"W	38+17.68	38+41.51	626616.52	1839061.57	11.25" BEND
328.53	N04° 27' 10.13"W	38+41.51	41+70.04	626944.05	1839036.06	CLEAN OUT
9.16	N04° 27' 10.13"W	41+70.04	41+79.20	626953.19	1839035.35	45" BEND
21.98	N39° 41' 57.02"E	41+79.20	42+01.18	626970.10	1839049.39	45" BEND
545.52	S86° 34' 42.13"E	42+01.18	47+46.70	626937.54	1839593.94	45" BEND
26.27	N48° 31' 59.80"E	47+46.70	47+72.97	626954.94	1839613.63	45" BEND
45.00	N03° 31' 51.69"E	47+72.97	48+17.97	626999.85	1839616.40	10" FLOW METER
35.54	N03° 32' 09.98"E	48+17.97	48+53.51	627035.32	1839618.59	END CONNECTION

NAME	STORM STRUCTURE TYPE	INNER DIAMETER (INCH)	NORTHING	EASTING	LID TYPE
18" STORM SEWER					
STORM HW 1	HEAD WALL	N/A	626266.05	1839109.84	N/A
STORM MH 2	TYPE C	48	626214.36	1839121.02	SOLID
STORM MH 3	TYPE E	60	626177.13	1839187.04	SOLID

### COLUMBIA GAS EXCAVATION NOTES

THE COLUMBIA GAS COMPANY PIPELINES WERE FIELD LOCATED ON 3-30-15 BY GARY ELSWICK OF RW SURVEY. THESE LOCATIONS ARE DENOTED ON THE PLANS AND REPRESENT THE APPROXIMATE DEPTH OF EACH COLUMBIA GAS PIPELINE UTILITY CROSSING. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 1.5' FEET CLEARANCE WHEN EXCAVATING UNDER THESE PIPELINES.

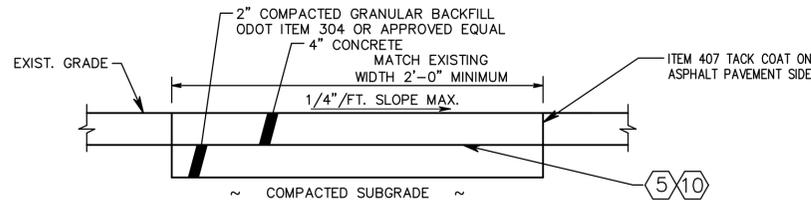
THE 6" HIGH PRESSURE GAS PIPELINE AT THE INTERSECTION OF SCIOTO & MAIN STREETS HAS AN ELECTRICAL CURRENT FOR CORROSION PROTECTION. THE CONTRACTOR SHALL COORDINATE THE DE-ENERGIZATION AND EXCAVATION NEAR THIS HIGH PRESSURE GAS PIPELINE WITH THE COLUMBIA GAS FIELD REPRESENTATIVE. THE CONTRACTOR SHALL PROTECT THE FORCE MAIN AND APPURTENANCES FROM BECOMING ENERGIZED WITH A COLUMBIA GAS APPROVED BARRIER. THE CONTRACTOR SHALL EXTEND THE PROTECTIVE BARRIER 10 FEET FROM EACH SIDE OF THE HIGH PRESSURE PIPELINE CROSSING.

THE COLUMBIA GAS FIELD REPRESENTATIVE SHALL INSPECT THE 6" HIGH PRESSURE GAS PIPELINE FOR ANY DAMAGE PRIOR TO APPLYING PROTECTIVE BARRIER OR BACKFILLING TRENCH. ANY REPAIRS TO THE COLUMBIA GAS PIPELINE MUST BE PERFORMED BY AN APPROVED COLUMBIA GAS CONTRACTOR.

BACKFILL AND COMPACTION AROUND COLUMBIA PIPELINES SHALL BE PERFORMED TO THE SATISFACTION AND IN THE PRESENCE OF COLUMBIA GAS FIELD REPRESENTATIVE. BACKFILL OVER THE PIPE SHALL BE COMPACTED BY HAND UNTIL 18 INCHES OF COVER IS ACHIEVED. THE DISTURBED GROUND SHALL BE COMPACTED TO THE SAME DEGREE OF COMPACTION OF SURROUNDING AREAS.

NAME	SANITARY STRUCTURE TYPE	INNER DIAMETER (INCH)	NORTHING	EASTING
24" EFFLUENT DISCHARGE				
SAN. SEWER MH 1	TYPE E	48	623126.99	1839743.84
SAN. SEWER MH 2	TYPE C	48	623151.57	1839755.76
SAN. SEWER MH 3	TYPE C	48	623480.87	1839771.71
MANHOLE 3A	TYPE C	48	623591.99	1839761.83
SAN. SEWER MH 4	TYPE C	48	623681.35	1839767.06
SAN. SEWER DROP MH 4A	TYPE C	48	623822.95	1839776.71
SAN. SEWER MH 5	TYPE C	48	623972.60	1839786.88
SAN. SEWER MH 6	TYPE C	48	624058.17	1839802.26
SAN. SEWER MH 6A	TYPE C	48	624265.14	1839816.92
SAN. SEWER MH 7	TYPE C	48	624322.98	1839827.66
SAN. SEWER MH 8	TYPE C	60	624707.67	1839849.36
SAN. SEWER MH 9	TYPE C	48	624722.18	1839460.77
SAN. SEWER MH 9A	TYPE C	60	624733.26	1839293.03
SAN. SEWER MH 10	TYPE C	48	625207.61	1839318.17
SAN. SEWER MH 11	TYPE C	48	625705.63	1839345.29
SAN. SEWER MH 12	TYPE C	60	626179.53	1839367.54
SAN. SEWER MH 13	TYPE C	60	626205.70	1838928.98
SAN. SEWER MH 14	TYPE C	48	626595.69	1838897.49
SAN. SEWER MH 15	TYPE C	48	627022.43	1838864.64
SAN. SEWER MH 16	TYPE C	48	627098.13	1838985.51
24" & 18" SANITARY SEWER (AT NEW WRRF)				
SAN. SEWER MH 17	TYPE C	72	627035.85	1839088.89
SAN. SEWER MH 18	TYPE C	60	626989.11	1839081.28
SAN. SEWER MH 19	TYPE C	60	626964.43	1838971.25
SAN. SEWER MH 20	TYPE C	48	626615.10	1838998.43
SAN. SEWER MH 21	TYPE C	48	626456.08	1839174.85
SAN. SEWER MH 22	TYPE C	48	626275.24	1839163.83
SAN. SEWER MH 23	TYPE C	48	626255.66	1839209.39
EX. SAN. MH 03	TYPE C	48	626228.31	1839208.32
8" & 18" SANITARY SEWER (AT NEW WRRF)				
SAN. SEWER MH 24	TYPE C	60	626952.49	1839498.89
SAN. SEWER DROP MH 25	TYPE C	60	626943.66	1839641.24
SAN. SEWER MH 26	TYPE C	48	627011.43	1839645.51
8" SANITARY SEWER LOWERING (MAIN STREET)				
EX. SAN. MH 02	TYPE C	48	624296.64	1839839.84
SAN. SEWER DROP MH 26	TYPE C	48	624300.47	1839796.24
18" SANITARY SEWER (AT EXISTING WWTP)				
PUMP STATION	TYPE C	96	623544.30	1839723.21
SAN. SEWER MH 27	TYPE C	48	623524.09	1839713.58
SAN. SEWER MH 28	TYPE E	48	623536.81	1839542.36

MANHOLES 15, 16, 17, 26 AND PUMP STATION WERE INSTALLED AS PART OF (PART A) PLAN SET. COORDINATE CONNECTIONS WITH (PART A) CONTRACTOR.

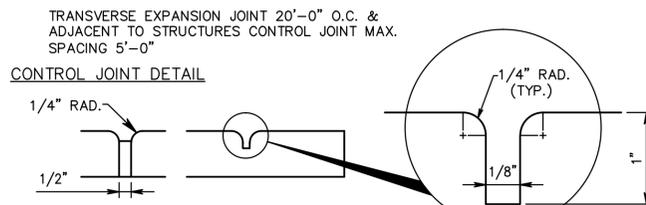


EXISTING SIDEWALKS ARE TO BE REMOVED, THEY SHALL BE REMOVED FOR THEIR ENTIRE DEPTH AND DISPOSED OF IN A SATISFACTORILY MANNER.

THE SUBGRADE FOR SIDEWALKS SHALL BE FORMED BY EXCAVATING TO THE REQUIRED DEPTH, AND SHAPED TO THE PROPER CROSS SECTION, AND SHALL BE THOROUGHLY COMPACTED BY ROLLING OR TAMPING BEFORE PLACING ANY CONCRETE TO 95% COMPACTION.

WHERE TREE ROOTS ARE ENCOUNTERED, THEY SHALL BE REMOVED TO A DEPTH OF ONE FOOT FOR THE FULL WIDTH OF THE WALK.

### CONCRETE WALK REPLACEMENT FOR HADDOCK PROPERTY

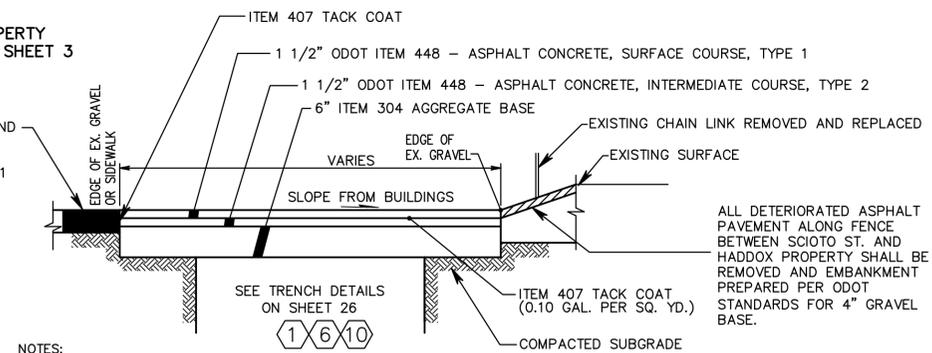


### CONCRETE WALK JOINT DETAIL FOR HADDOCK PROPERTY

N.T.S.

NOTE: SEE HADDOX PROPERTY CODED NOTES ON SHEET 3

CONTRACTOR SHALL REMOVE AND REPLACE EXISTING CONCRETE SIDEWALK. SEE CONCRETE SIDEWALK DETAILS ON SHEET 21



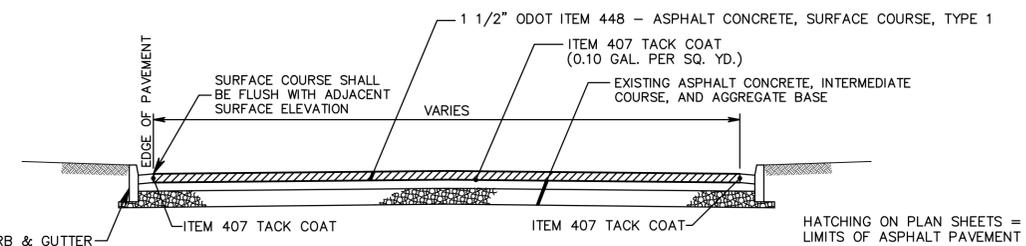
NOTES:

- LIMITS OF ASPHALT PAVEMENT INSTALLATION AS DELINEATED ON SHEETS 3 & 4.
- THIS WORK SHALL COMMENCE ONLY AFTER THE TESTING AND APPROVAL OF ALL SEWER MAINS.
- CONTRACTOR SHALL REMOVE EXISTING GRAVEL MATERIAL FROM AREA AS NECESSARY TO INSTALL FULL DEPTH PAVEMENT PER THE REQUIREMENTS IN THIS TYPICAL SECTION. DISPOSE OF ALL GRAVEL MATERIAL ACCORDING TO ITEM 202.
- ENSURE THAT THE CROSS-SLOPE IS A MINIMUM 3/8 INCH IN 10 FEET, SLOPING NEW ASPHALT PAVEMENT FROM BUILDINGS.
- APPLY TACK COAT ITEM 407 TO FULL DEPTH OF NEW CONCRETE SIDEWALK.

(HADDOX PROPERTY)

### TYPICAL SECTION - GRAVEL DRIVE REPLACEMENT WITH ASPHALT PAVEMENT COURSE

N.T.S.

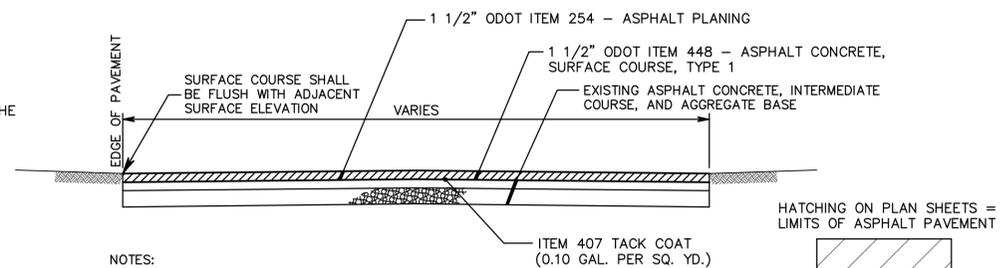


NOTES:

- LIMITS OF ASPHALT CONCRETE, SURFACE COURSE, TYPE 1 AS DELINEATED ON SHEET 11.
- THIS WORK SHALL COMMENCE ONLY AFTER THE TESTING AND APPROVAL OF ALL SEWER MAINS.
- SURFACE AREA SHALL BE CLEANED OF ALL LOOSE MATERIAL AND FREE OF IRREGULARITIES SUCH AS BUMPS, & WHEEL RUTS PRIOR TO SURFACE COURSE APPLICATION.
- ENTIRE SURFACE AREA SHALL HAVE A MAXIMUM DEPTH OF 1 1/2". ANY HIGH POINTS OR IRREGULARITIES SHALL BE PLANED PER ODOT ITEM 254 PAVEMENT PLANING. COSTS INCLUDED IN ITEM 254 PAVEMENT PLANING, ASPHALT PAVEMENT.
- PATCH AREAS OF THE PLANED SURFACE THAT ARE UN-SOUND OR DISLODGED PER REQUIREMENTS OF ODOT 254 PAVEMENT PLANING. COSTS INCLUDED IN ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE.

### TYPICAL SECTION - LEXINGTON AVE. SURFACE COURSE

N.T.S.



NOTES:

- LIMITS OF ASPHALT RE-SURFACING AS DELINEATED ON SHEET 3 & 4.
- THIS WORK SHALL COMMENCE ONLY AFTER THE TESTING AND APPROVAL OF ALL SEWER & WATER MAINS.
- ENTIRE SURFACE COURSE SHALL BE REMOVED TO A MAXIMUM DEPTH OF 1 1/2" PER ODOT ITEM 254 PAVEMENT PLANING. COSTS INCLUDED IN ITEM 254 PAVEMENT PLANING, ASPHALT PAVEMENT.
- PATCH AREAS OF THE PLANED SURFACE THAT ARE UN-SOUND OR DISLODGED PER REQUIREMENTS OF ODOT 254 PAVEMENT PLANING. COSTS INCLUDED IN ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE.

### TYPICAL SECTION - SCIOTO ST. RE-SURFACING

N.T.S.

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REVISIONS

NO.	DESCRIPTION	DATE	BY

RECORD DRAWINGS DATE BY

DESIGNED AM DATE 07/01/2016

CHECKED MN JOB NO 14578119

SCALE NONE

### STRUCTURE & FORCE MAIN COORDINATE TABLES

### VILLAGE OF ASHVILLE SANITARY SEWER IMPROVEMENTS (PART B)

URS Corporation



**WATER MAIN NOTES**

THE LOCATION OF THE WATER LINES AS SHOWN ON THE DRAWINGS SHOULD BE ADJUSTED IN THE FIELD TO AVOID CONFLICTS WITH POLES, TREES, AND UNDERGROUND UTILITIES. NO ADDITIONAL PAYMENT WILL BE MADE FOR THESE ADJUSTMENTS.

CONNECTING WATERLINES: THE CONNECTION OF PROPOSED WATERLINES TO EXISTING WATERLINES SHALL BE DONE IN A MANNER THAT WILL CAUSE A MINIMUM OF INCONVENIENCE TO THOSE WITH AFFECTED SERVICES. WORK CONCERNING THE DISCONNECTION AND RECONNECTION OF EXISTING WATERLINES SHALL BE DONE BETWEEN THE HOURS OF 10:00 P.M. AND 5:00 A.M., OR AS DIRECTED BY THE VILLAGE. NO SUCH WORK SHALL BEGIN UNTIL THE FIRE DEPARTMENT, AND RESIDENTS WHOSE SERVICES WILL BE AFFECTED ARE ALL NOTIFIED AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE CONNECTION, OF THE EXTENT, NATURE AND TIME OF THE ANTICIPATED WORK, NOR UNTIL THE METHOD AND SCHEDULE OF SUCH WORK HAS BEEN APPROVED BY THE VILLAGE.

SERVICE LOCATIONS: ALL WATER SERVICES SHALL BE LOCATED NEAR THE LOT LINE UNLESS OTHERWISE NOTED, AND SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM THE SANITARY SEWER SERVICE AND IN A SEPARATE TRENCH. A PERMIT FOR EACH WATER SERVICE MUST BE OBTAINED FROM THE VILLAGE OF ASHVILLE, PRIOR TO MAKING ANY CONNECTION FROM THE WATER MAIN OR WATER SERVICE BOX TO ANY EXISTING OR PROPOSED BUILDING.

CONFLICTS: WHEN CONFLICTS IN GRADE BETWEEN WATERLINES AND SEWERS ARE FOUND DURING CONSTRUCTION, THE WATERLINES SHALL BE LOWERED, UNLESS DIRECTED OTHERWISE BY THE ENGINEER. A MINIMUM VERTICAL SEPARATION OF 18 INCHES, MEASURED FROM THE OUTSIDE OF EACH PIPE, SHALL BE MAINTAINED.

MINIMUM DEPTH: WATER LINES SHALL BE LAID WITH A MINIMUM OF FOUR (4) FEET OF COVER FROM THE FINAL PROPOSED GROUND OR PAVEMENT GRADE TO THE TOP OF THE WATERLINE.

LINE CROSSINGS: AT ALL POINTS OF CROSSING OF WATER MAINS AND SEWERS, THE BACKFILL SHALL BE GRANULAR MATERIAL BETWEEN THE DEEPER AND SHALLOWER PIPE. THE MINIMUM HORIZONTAL SEPARATION BETWEEN WATER MAINS AND ALL SEWERS SHALL BE TEN (10) FEET MEASURED FROM THE OUTSIDE OF EACH PIPE. THE MINIMUM VERTICAL SEPARATION AT CROSSINGS OF WATER MAINS AND ALL SEWERS SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF EACH PIPE.

DISINFECTION: ALL WATER MAINS SHALL BE CLEANED AND DISINFECTED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF AWWA SPECIFICATION C651. SPECIAL ATTENTION IS DIRECTED TO THE REQUIREMENTS OF FLUSHING AND CHLORINATING VALVES AND FIRE HYDRANTS. RESULTS OF THE DISINFECTION TESTS SHALL BE FURNISHED TO THE ENGINEER PRIOR TO ACCEPTANCE OF THE SYSTEM.

TESTING: A HYDROSTATIC TEST, AS REQUIRED IN SECTION 7.3 OF AWWA SPECIFICATION C605 FOR PVC AND HDPE PIPE OR SECTION 5.2 OF AWWA SPECIFICATION C600 FOR DUCTILE IRON PIPE AS APPLICABLE, SHALL BE APPLIED TO THE WATER MAIN. IF THERE ARE INDICATIONS OF LEAKS UNDER THIS PRESSURE TEST, THE CONTRACTOR SHALL LOCATE AND REPAIR ALL LEAKS AT THE CONTRACTOR'S EXPENSE UNTIL THE LEAKAGE IS WITHIN THE SPECIFIED ALLOWANCE. ALL BENDS, JOINT DEFLECTIONS AND HYDRANTS SHALL HAVE CONCRETE BACKING, AND ALL VALVES SHALL HAVE CONCRETE SUPPORTS, IN ACCORDANCE WITH THE STANDARD CONSTRUCTION DRAWINGS.

VALVE EXTENSION: IF THE TOP OF THE OPERATING NUT IS LOWER THAN 36 INCHES BELOW FINISHED GRADE, AN EXTENSION STEM SHALL BE FURNISHED TO BRING THE TOP OF THE OPERATING NUT TO BETWEEN 24 INCHES AND 36 INCHES OF FINISHED GRADE ELEVATION.

VALVE OPERATION: EXISTING VALVES SHALL BE OPERATED BY VILLAGE OF ASHVILLE UTILITIES PERSONNEL ONLY.

**MAINTENANCE OF TRAFFIC**

THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN AND REMOVE LIGHTS, SIGNS, BARRICADES, TEMPORARY GUARDRAILS, OTHER TRAFFIC CONTROL DEVICES, AND FURNISH WATCHMEN AND FLAGMEN AS MAY BE NECESSARY TO MAINTAIN SAFE TRAFFIC CONDITIONS IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), AND THE OHIO MANUAL OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION AND MAINTENANCE OPERATIONS.

WHEN IT IS NECESSARY TO DIVERT TRAFFIC FROM ITS NORMAL CHANNEL INTO ANOTHER CHANNEL, SUCH DIVERSION SHALL BE CLEARLY MARKED BY CONES, DRUMS, BARRICADES OR TEMPORARY GUARDRAILS. WHENEVER ONE LANE TRAFFIC IS ESTABLISHED AT LEAST TWO FLAGMEN SHALL BE USED. THE FLAGMEN SHALL BE EQUIPPED AND SHALL PERFORM THEIR DUTIES ACCORDING TO THE STANDARD FOR FLAGGING TRAFFIC CONTAINED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

ALL LANES OF TRAFFIC MUST BE MAINTAINED ON ALL ROADS DURING NON-WORKING HOURS.

STREET PLATES SHALL BE ADEQUATELY SECURED AT ALL TIMES TO PREVENT MOVEMENT AND OBJECTIONABLE NOISE. PLATES SHALL BE REMOVED FROM THE RIGHTS-OF-WAY AS SOON AS POSSIBLE. ALL ROAD CROSSINGS SHALL BE PLATED UNTIL THE PERMANENT PAVEMENT RESTORATION IS COMPLETE.

**STREET CLOSING**

WHEN IT IS REQUIRED THAT THE STREET OR ROAD BE CLOSED TO THROUGH TRAFFIC, THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN, AND REMOVE SIGNS, BARRICADES, ETC., AS PER THE OMUTCD. THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN ADVANCE WARNING SIGNS, DETOUR SIGNS, AND BARRICADES, ETC. ON ALL STREETS INCLUDING SIDE STREETS THAT ARE AFFECTED BY THE WORK.

THE FOLLOWING STREETS CANNOT BE CLOSED TO TRAFFIC:

- MAIN STREET / STATE ROUTE 316

CONTRACTOR SHALL SCHEDULE HIS WORK TO INSURE THAT EACH ROAD CLOSING IS NO LONGER THAN SIX (6) HOURS AND OCCURS BETWEEN THE HOURS OF 9:00 A.M. TO 4:00 P.M. MONDAY THROUGH FRIDAY. THE CONTRACTOR SHALL MAKE SUITABLE PROVISIONS FOR ACCESS BY LOCAL RESIDENTS, SCHOOL BUSES, MAIL DELIVERY VEHICLES, POLICE, FIRE, AND EMERGENCY VEHICLES AT ALL TIMES.

THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN DETOUR MARKING SIGNS ON TEMPORARY ROUTES.

ADVANCE NOTICE OF ALL STREET CLOSINGS SHALL BE MADE TO THE FIRE DEPARTMENT, THE LOCAL SCHOOL DISTRICT AND THE LOCAL MEDIA AT LEAST ONE WEEK PRIOR TO CLOSURE.

IF IN THE OPINION OF THE ENGINEER, PROPER MAINTENANCE OF TRAFFIC FACILITIES AND PROPER PROVISION FOR TRAFFIC CONTROL ARE NOT BEING PROVIDED AND THE SAFETY OF THE PUBLIC IS THUS ENDANGERED, THE OWNER MAY TAKE THE NECESSARY STEPS TO PLACE THEM IN PROPER CONDITION AND THE COST OF SUCH SERVICES WILL BE BORNE BY THE CONTRACTOR.

NO DRIVEWAY IS TO BE CLOSED FOR MORE THAN FIVE (5) HOURS WITH THE TIME STARTING WHEN THE ENTRANCE IS CLOSED TO TRAFFIC. THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING PROPERTY OWNERS, RESIDENTS, OR BUSINESS OPERATORS IN WRITING AT LEAST 24 HOURS BUT NOT MORE THAN 72 HOURS PRIOR TO CLOSURE. THE ENGINEER SHALL BE GIVEN A LIST OF THE BUSINESSES THAT WERE GIVEN NOTICES WITH THE DATE OF NOTICE INCLUDED. IF FOR ANY REASON THE FIVE (5) HOUR MAXIMUM LIMIT IS EXCEEDED ON ANY DRIVEWAY, THE CONTRACTOR WILL NOT BE PERMITTED TO CLOSE ANY FURTHER DRIVEWAYS UNTIL ALL CLOSED DRIVEWAYS ARE REOPENED. DRIVEWAYS SHALL NOT BE CLOSED DURING THE EVENING OR ON WEEKENDS.

COSTS FOR MAINTENANCE OF TRAFFIC SHALL BE INCLUDED IN THE LUMP SUM PAY ITEM - MAINTAINING TRAFFIC.

**PROHIBITED CONSTRUCTION ACTIVITIES**

USING ANY SUBSTANCE OTHER THAN WATER TO CONTROL DUST.

OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE PERMIT OR DISPOSING OF THE TREES AND STUMPS.

PUMPING OF SEDIMENT-LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS INTO ANY SURFACE WATERS, ANY STREAM CORRIDORS, ANY WETLANDS, OR STORM SEWERS.

DISCHARGING POLLUTANTS - SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE - AND OTHER HARMFUL WASTE INTO OR ALONGSIDE RIVERS, STREAMS, IMPOUNDMENTS OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO.

STORING CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIAL ON PROPERTY, PUBLIC OR PRIVATE, NOT PREVIOUSLY SPECIFIED BY THE CITY ENGINEER FOR SAID PURPOSES.

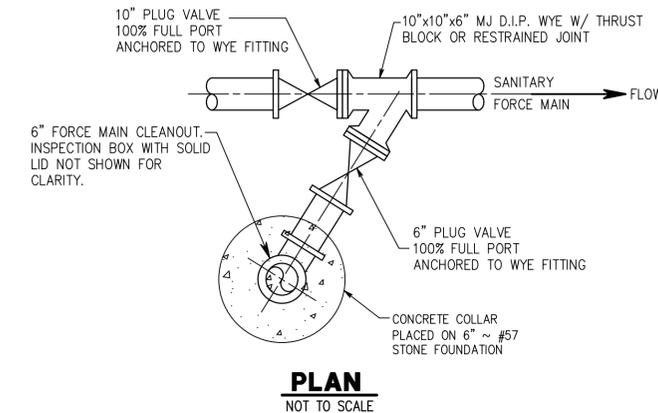
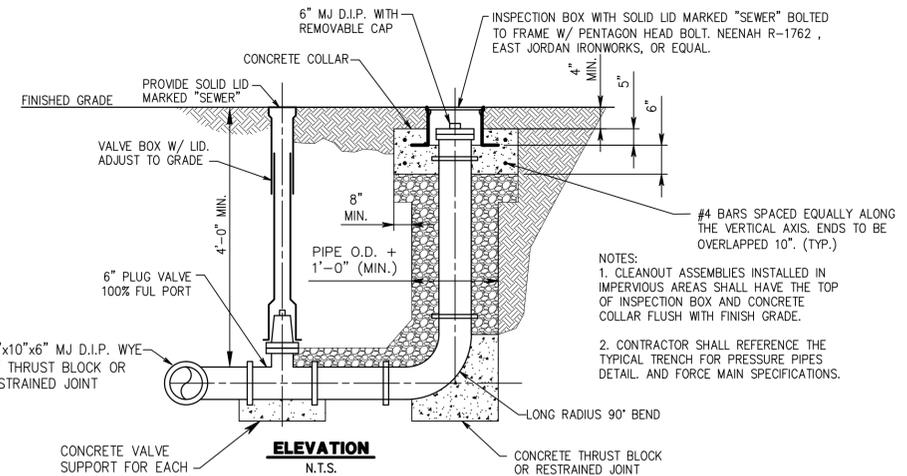
DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOOD PLAINS, EVEN WITH THE PERMISSION OF THE PROPERTY OWNER.

INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, WETLANDS SURFACE WATERS, OR OUTSIDE THE EASEMENT AREA.

PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF A STREAM.

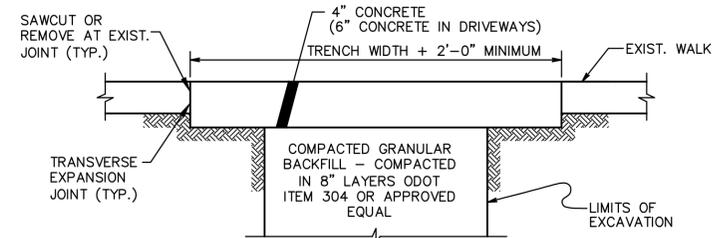
DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA.

DISPOSAL OF TREES, BRUSH AND OTHER DEBRIS IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR AT UNSPECIFIED LOCATIONS.



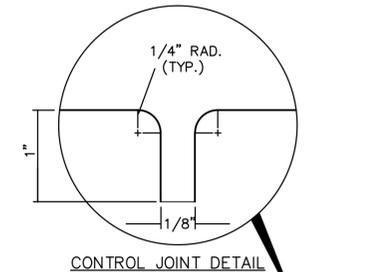
**FORCE MAIN CLEANOUT ASSEMBLY DETAIL**

NOT TO SCALE



**CONCRETE WALK REPLACEMENT**

N.T.S.

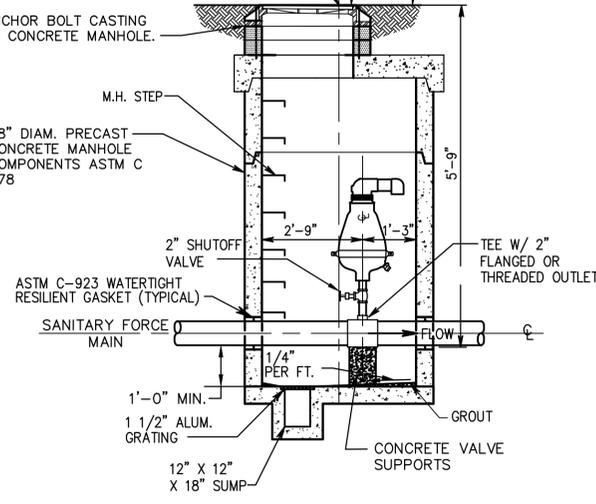


TRANSVERSE EXPANSION JOINT 30'-0" O.C. & ADJACENT TO STRUCTURES CONTROL JOINT MAX. SPACING 5'-0"

**CONCRETE WALK JOINT DETAIL**

N.T.S.

NEENAH R-1550, EAST JORDAN IRONWORKS NO. 1058 MANHOLE FRAME W/ SOLID LID MARKED "SANITARY SEWER". PROVIDE SELF SEALING MANHOLE COVER W/ "T" SEAL GASKET



**AIR RELEASE MANHOLE COMPLETE**

N.T.S.

**NOTE:**

1. CONTRACTOR SHALL FIELD LOCATE ALL AIR RELEASES AT THE ACTUAL HIGH POINT. THE LOCATIONS SHOWN ON THE PLANS ARE ONLY APPROXIMATE.
2. ALL ITEMS IN ACCORDANCE WITH ASTM C-478.
3. APPLY 1" WIDE CONTINUOUS STRIP OF CONSEAL CS-202 SEALANT BETWEEN CONCRETE SLAB TOP, GRADE RINGS, AND CASTING. OVERLAP SEALANT AND KNEAD ENDS. MEET REQUIREMENTS OF ASTM-C-990.
4. GROUT ALL INTERIOR JOINTS, SEAMS, AND PIPE PENETRATIONS TO BE WATERTIGHT.
5. SEE PRE-CAST CONCRETE MANHOLE DETAIL FOR GRADING REQUIREMENTS.
6. ROTATE ALL VALVES AS NECESSARY TO PROVIDE EASY ACCESS TO OPERATOR HANDLES.
7. ARV OUTLET TEE, PIPING, VALVES AND MANHOLE INCLUDED IN UNIT PRICE BID FOR AIR RELEASE VALVE MANHOLE COMPLETE.

ISSUED FOR BIDDING DATE BY

**ADDENDUM REVISIONS**

ADDENDUM NO	ADDENDUM DATE	BY

ISSUED FOR CONSTRUCTION DATE BY

**REVISIONS**

NO.	DESCRIPTION	DATE	BY

RECORD DRAWINGS DATE BY

DESIGNED AM	DATE 07/01/2016
CHECKED MN	JOB NO 14578119
SCALE AS NOTED	

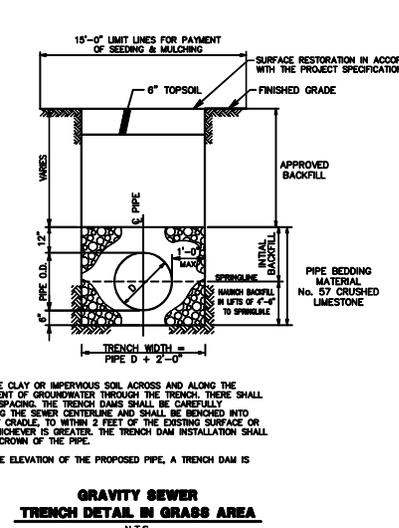
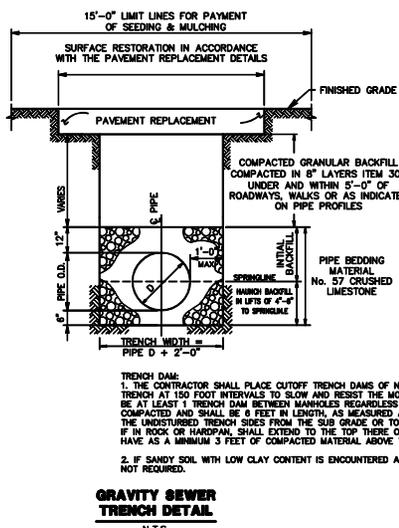
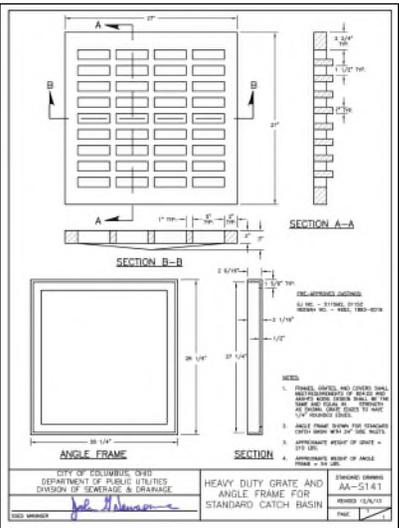
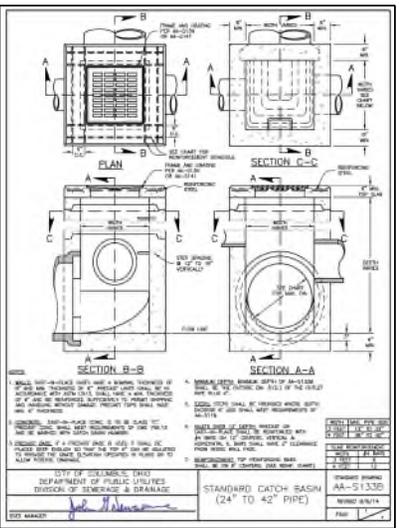
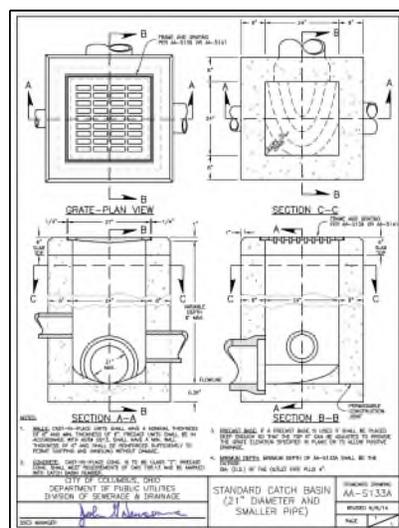
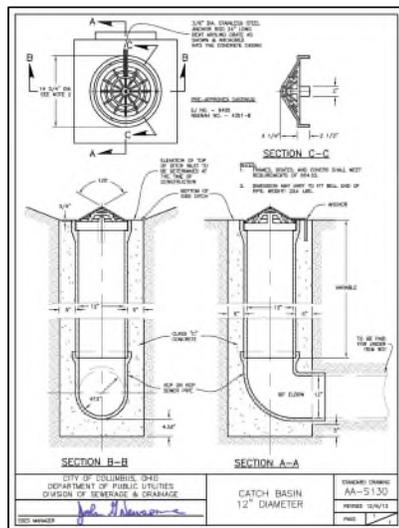
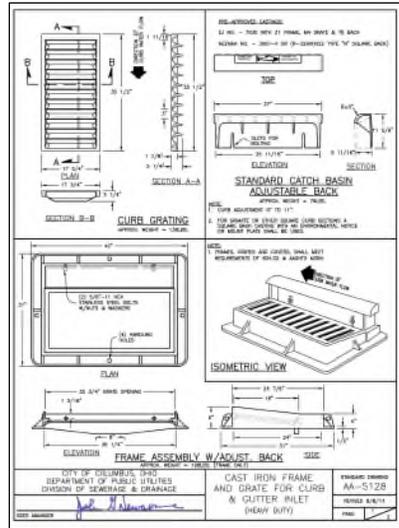
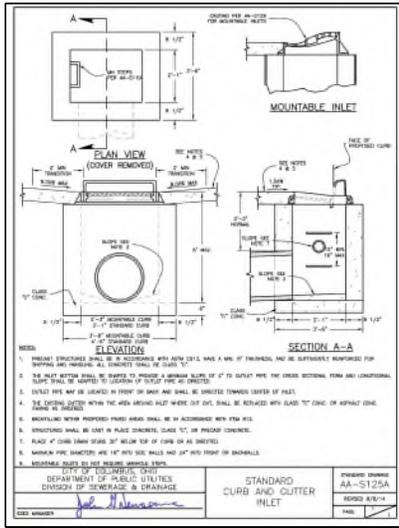
**GENERAL NOTES & MISCELLANEOUS DETAILS**

**VILLAGE OF ASHVILLE SANITARY SEWER IMPROVEMENTS (PART B)**

**URS Corporation**



PL01 - INF - ANDREW MARTINEZ - L:\PROJECTS\1457819\CIVIL\1457819-PP2.DWG 09/25/16 2:58PM LTS 1 PLS 1



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ADDENDUM REVISIONS			
ADDENDUM NO.	ADDENDUM DATE	BY	
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REVISIONS			
NO.	DESCRIPTION	DATE	BY
RECORD DRAWINGS			
DATE		BY	
DESIGNED AM	DATE	07/01/2016	
CHECKED MN	JOB NO 14578119		
SCALE NOT TO SCALE			
<b>MISCELLANEOUS DETAILS</b>			
<b>VILLAGE OF ASHVILLE SANITARY SEWER IMPROVEMENTS (PART B)</b>			
<b>URS Corporation</b>			
<b>23</b>			



D	BRANCH											
	3"	4"	6"	8"	12"	16"	20"	24"	3"	4"	6"	8"
1/2"	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3/4"	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1"	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1 1/4"	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1 1/2"	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1 3/4"	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2"	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 1/4"	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 1/2"	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 3/4"	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3"	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

STEEL WILL BE USED AS REQUIRED BY THE ENGINEER

**STANDARD DETAIL  
BACKING FOR TEES**

L-6312

NOTE: NO MORE THAN ONE VALVE STEM SLEEVE PERMITTED FOR VALVE SETTING.

**STANDARD DETAIL  
COLUMBUS STANDARD  
HEAVY DUTY VALVE BOX**

L-6314A

LENGTH PPE	GALLONS PER HOUR															
	4" Pipe	6" Pipe	8" Pipe	10" Pipe	12" Pipe	14" Pipe	16" Pipe	18" Pipe	20" Pipe	24" Pipe	30" Pipe	36" Pipe	42" Pipe	48" Pipe	54" Pipe	60" Pipe
50	0.02	0.03	0.05	0.07	0.08	0.10	0.12	0.15	0.17	0.20	0.25	0.30	0.35	0.40	0.45	0.50
100	0.02	0.07	0.10	0.13	0.17	0.20	0.25	0.30	0.35	0.40	0.50	0.60	0.70	0.80	0.90	1.00
200	0.10	0.13	0.20	0.26	0.33	0.40	0.50	0.60	0.70	0.80	0.74	0.89	1.10	1.24	1.40	1.54
300	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.89	1.10	1.30	1.50	1.70	1.90	2.10	2.30	2.48
400	0.20	0.35	0.50	0.66	0.83	0.99	1.24	1.46	1.74	1.99	2.23	2.48	2.73	3.00	3.26	3.42
500	0.30	0.40	0.60	0.79	0.99	1.19	1.46	1.79	2.09	2.38	2.68	2.98	3.28	3.58	3.88	4.02
600	0.30	0.46	0.70	0.83	1.16	1.39	1.74	2.09	2.43	2.78	3.13	3.48	3.82	4.17	4.47	4.62
700	0.30	0.46	0.70	0.83	1.16	1.39	1.74	2.09	2.43	2.78	3.13	3.48	3.82	4.17	4.47	4.62
800	0.40	0.55	0.79	1.06	1.32	1.59	1.99	2.38	2.78	3.18	3.57	3.97	4.37	4.77	5.07	5.16
900	0.45	0.60	0.89	1.19	1.49	1.79	2.23	2.68	3.13	3.57	4.02	4.47	4.92	5.37	5.82	6.12
1000	0.50	0.65	0.99	1.32	1.66	1.99	2.48	2.98	3.48	3.97	4.47	4.97	5.46	5.96	6.46	6.76
2000	1.24	1.86	2.48	3.31	4.14	4.97	6.21	7.45	8.69	9.93	11.17	12.41	13.65	14.89	16.13	17.37
3000	2.48	3.31	4.14	5.38	6.62	7.86	9.10	10.34	11.58	12.82	14.06	15.30	16.54	17.78	19.02	20.26
4000	3.72	4.97	6.21	7.45	8.69	9.93	12.41	14.90	17.38	19.86	22.34	24.82	27.30	29.78	32.26	34.74
5000	4.97	6.21	7.45	8.69	9.93	12.41	14.90	17.38	19.86	22.34	24.82	27.30	29.78	32.26	34.74	37.22
6000	6.21	7.45	8.69	9.93	12.41	14.90	17.38	19.86	22.34	24.82	27.30	29.78	32.26	34.74	37.22	39.70
7000	7.45	8.69	9.93	12.41	14.90	17.38	19.86	22.34	24.82	27.30	29.78	32.26	34.74	37.22	39.70	42.18
8000	8.69	9.93	12.41	14.90	17.38	19.86	22.34	24.82	27.30	29.78	32.26	34.74	37.22	39.70	42.18	44.66
9000	9.93	12.41	14.90	17.38	19.86	22.34	24.82	27.30	29.78	32.26	34.74	37.22	39.70	42.18	44.66	47.14
10000	11.17	13.65	16.13	18.61	21.09	23.57	26.05	28.53	31.01	33.49	35.97	38.45	40.93	43.41	45.89	48.37

FORMULA:  $L = \frac{50 \sqrt{P}}{148,000}$

Where: L = Allowable Leakage (gal./hr.)  
 S = Length of pipe tested in feet.  
 D = Nominal pipe diameter in inches.  
 P = Test pressure (150 psi)

When testing against closed metal-sealed valves, an additional leakage per allowed value of 0.0078 gal./hr./in. of nominal valve size will be allowed.

These calculations are based on "AWWA C-600-10" Specifications, Section 4, Hydrostatic Testing, Dated December 1, 2005.

**STANDARD DETAIL  
ALLOWABLE LEAKAGE TABLE**

L-640

**STANDARD DETAIL  
DRAIN TILE REPLACEMENT**

L-7002

**STANDARD DETAIL  
WATER SERVICE EXTENSION  
AND  
CURB BOX RELOCATION**

L-7152A

If the existing service line is found to have less than 42" of cover, and is either sagged or abraded, the Contractor shall lower the existing service line to achieve the proper cover as specified in accordance to detail L-7102B.

**STANDARD DETAIL  
ITEM 810 WATER SERVICE TAP TRANSFERRED**

L-7102B

NOTE: Water Service Lines shall be laid with a min. of 42" cover.

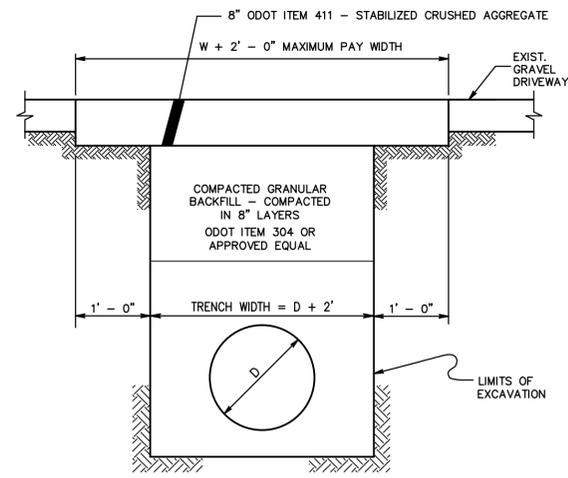
**STANDARD DETAIL  
WATER SERVICE  
RELOCATION**

L-7102C

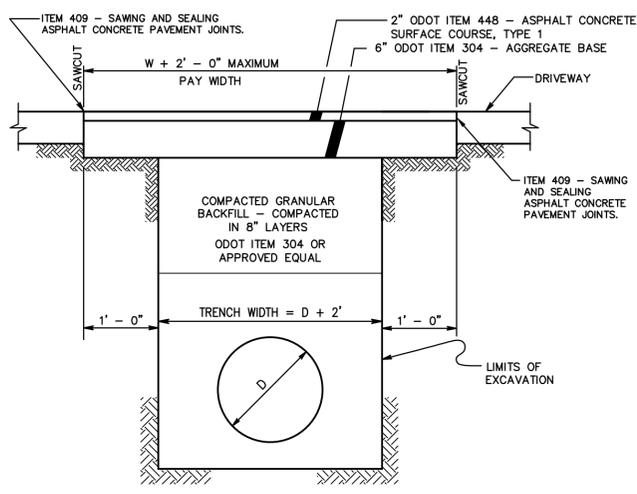
**STANDARD DETAIL  
TYPICAL WATER LINE  
LOWERING**

L-7401

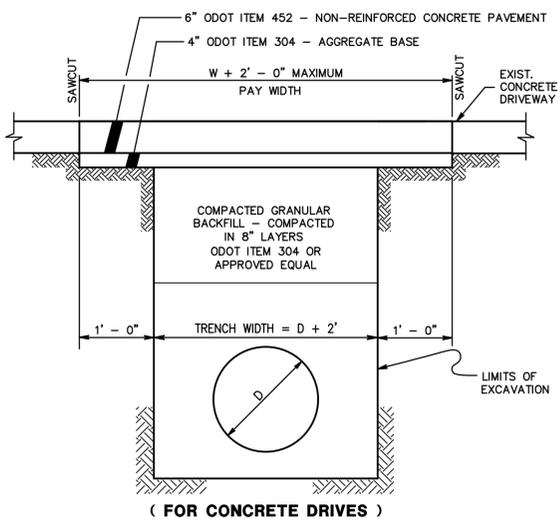
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REVISIONS			
NO.	DESCRIPTION	DATE	BY
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DESIGNED AM	DATE	07/01/2016	
CHECKED MN	DATE	JOB NO 14578119	
SCALE NOT TO SCALE			
<b>MISCELLANEOUS DETAILS</b>			
<b>VILLAGE OF ASHVILLE SANITARY SEWER IMPROVEMENTS (PART B)</b>			
<b>URS Corporation</b>			
25			



( FOR GRAVEL DRIVES )  
( FOR VILLAGE ALLEY )

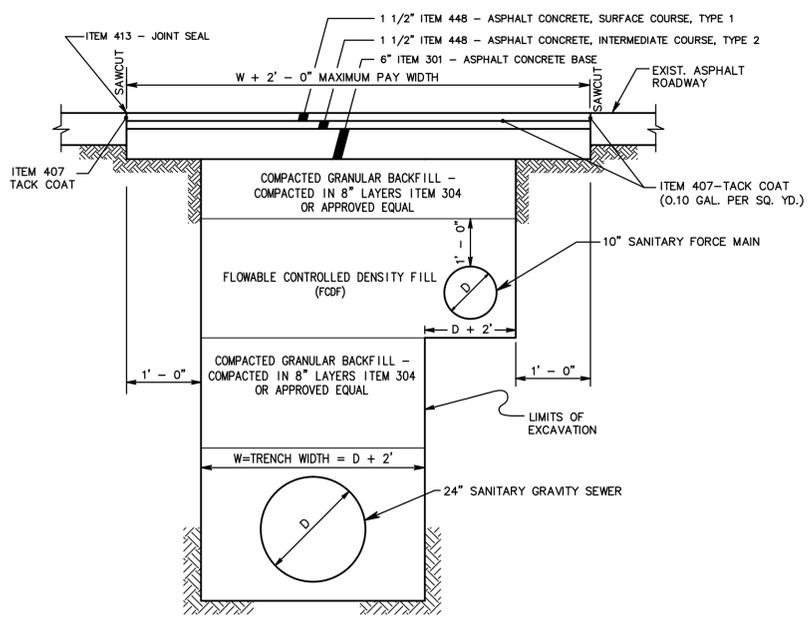


( FOR ASPHALT DRIVES )



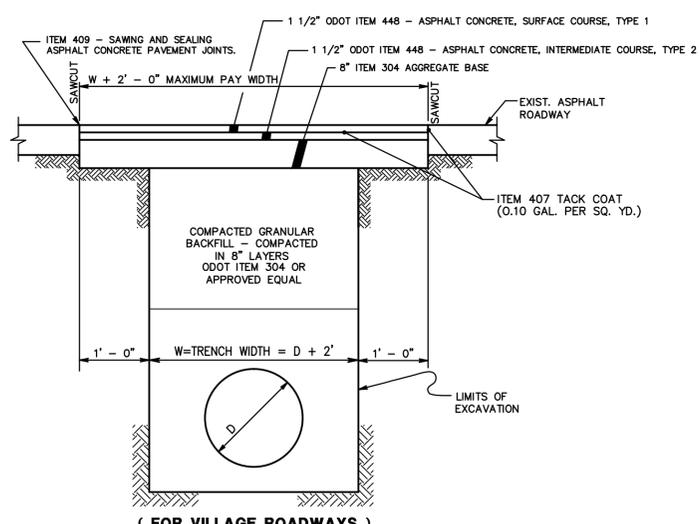
**DRIVEWAY PAVEMENT REPLACEMENT DETAILS**

N.T.S.



**ASPHALT PAVEMENT REPLACEMENT TYPE 1 (MAIN STREET CROSSING)**

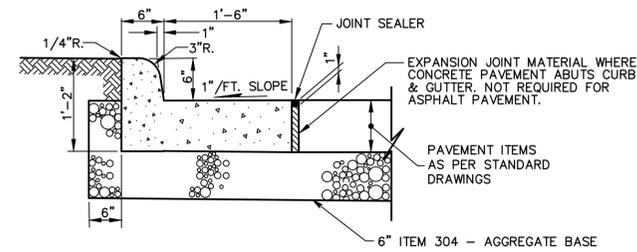
N.T.S.



**ASPHALT PAVEMENT (FOR VILLAGE ROADWAYS)**

**ROADWAY PAVEMENT REPLACEMENT DETAILS**

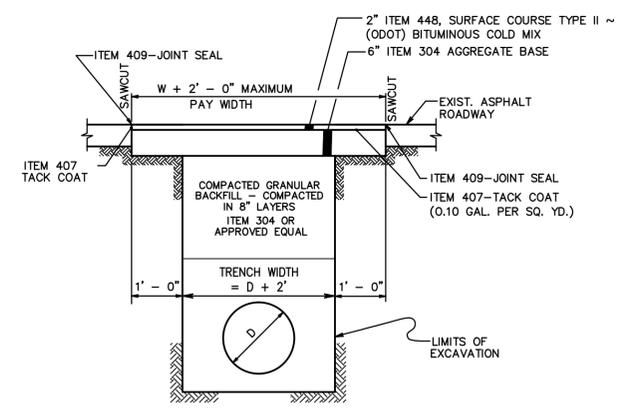
N.T.S.



- NOTES:
- 1/4" CONTRACTION JT. AT 10'-0" O.C.
  - 1/2" EXPANSION JT. AT 50'-0" O.C.
  - ALL RADII TO FACE OF CURB UNLESS OTHERWISE SHOWN.

**CONCRETE CURB & GUTTER DETAIL**

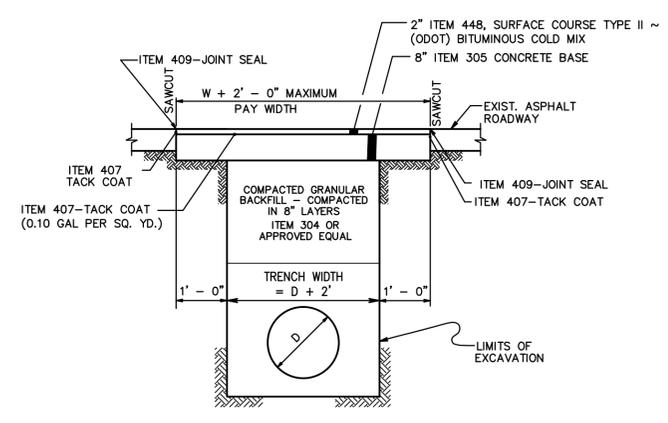
N.T.S.



**TEMPORARY PAVEMENT REPLACEMENT (VILLAGE ROADWAYS)**

N.T.S.

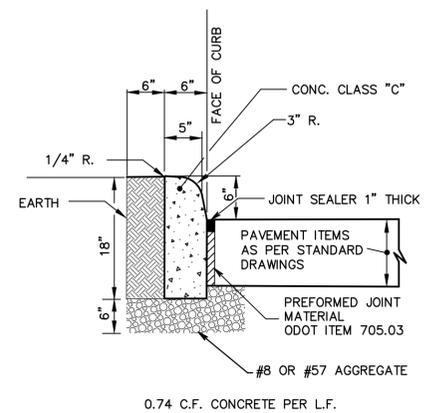
NOTE:  
1. UNLESS OTHERWISE APPROVED BY THE ENGINEER, TEMPORARY PAVEMENT IS TO BE PLACED ON THE SAME DAY THE ORIGINAL PAVEMENT IS REMOVED.



**TEMPORARY PAVEMENT REPLACEMENT (MAIN STREET CROSSING)**

N.T.S.

NOTE:  
1. UNLESS OTHERWISE APPROVED BY THE ENGINEER, TEMPORARY PAVEMENT IS TO BE PLACED ON THE SAME DAY THE ORIGINAL PAVEMENT IS REMOVED.



**STRAIGHT 18' CONCRETE CURB**

N.T.S.

- GENERAL NOTES FOR BOTH CURB & GUTTER
- FLOAT THE TOP OF CURB TO THOROUGHLY COMPACT THE CONCRETE TO PRODUCE AN EVEN SURFACE. ALL EXPOSED SURFACES OF CONCRETE CURB SHALL HAVE A BRUSHED FINISH.
  - UNDERDRAIN CONSTRUCTED AS PER STATE OF OHIO DEPT. OF TRANS. CONST. & MATL. SPECS ITEM 605, MATERIAL PER 707.17 (PVC PERFORATED PIPE)
  - CONNECT UNDERDRAINS TO CURB INLET MIN. SLOPE 2.08%
  - DISTURBED SOIL BEHIND CURB SHALL BE PREPARED AND SEEDED PER ITEM 659, SEEDING & MULCHING. USE SEED MIX CLASS 1 LAWN MIX.

ISSUED FOR BIDDING \_\_\_\_\_ DATE \_\_\_\_\_ BY \_\_\_\_\_

ADDENDUM REVISIONS		
ADDENDUM NO	ADDENDUM DATE	BY

ISSUED FOR CONSTRUCTION \_\_\_\_\_ DATE \_\_\_\_\_ BY \_\_\_\_\_

REVISIONS			
NO.	DESCRIPTION	DATE	BY

RECORD DRAWINGS \_\_\_\_\_ DATE \_\_\_\_\_ BY \_\_\_\_\_

DESIGNED AM	DATE 07/01/2016
CHECKED MN	JOB NO 14578119

SCALE NOT TO SCALE

**MISCELLANEOUS DETAILS**

**VILLAGE OF ASHVILLE SANITARY SEWER IMPROVEMENTS (PART B)**

**URS Corporation**

PLOT INFO: ANDREW.MARTIN02 L:\PROJECTS\14578119\CIVIL\8119-PR26.DWG 09/22/16 2:51PM LTS: 1 PSLTS: 1

# STORMWATER POLLUTION PREVENTION PLAN

## (SWPPP)

PROJECT NAME: VILLAGE OF ASHVILLE SANITARY SEWER IMPORTMENTS  
 PROJECT LOCATION: VILLAGE OF ASHVILLE PICKAWAY COUNTY, OHIO

OWNER NAME: VILLAGE OF ASHVILLE  
 OWNER ADDRESS: 200 EAST STATION STREET  
 ASHVILLE, OHIO 43103

**A. – SITE INFORMATION**

DESCRIPTION OF PROJECT INCLUDING SOIL DISTURBING ACTIVITIES:

THE SITE WILL CONSIST OF APPROXIMATELY 3.85 ACRES OF DISTURBED AREA WITHIN THE VILLAGE OF ASHVILLE IN PICKAWAY COUNTY. ACTIVITIES INCLUDE EXCAVATING AND INSTALLING APPROXIMATELY 4880 LINEAL FEET OF FORCE MAIN TO CONVEY PUMPED FLOWS FROM THE OLD WTMP PUMP STATION TO THE NEW WTMP HEADWORKS, 6882 LINEAL FEET OF SANITARY SEWER, 120 LINEAL FEET OF STORM SEWER AND 91 LINEAL FEET OF 6" WATER MAIN.

SOIL DISTURBING ACTIVITIES WILL INCLUDE THE FOLLOWING: CLEARING AND GRUBBING, ROUGH GRADING, AND FINAL GRADING OF THE FORCE MAIN AND SANITARY SEWER ALIGNMENTS AND PUMP STATION SITE.

UPON COMPLETION, ALL DISTURBED LAND WILL BE RETURNED TO PRE-CONSTRUCTION CONDITION. THE PRE AND POST CONSTRUCTION RUNOFF COEFFICIENTS WILL BE THE SAME. THE IMPACT TO CURRENT IMPERVIOUS CONDITIONS THAT AFFECT STORMWATER RUNOFF WILL BE MINIMAL.

CONTRACTOR SHALL BE PAID FOR ALL SEDIMENT AND EROSION CONTROLS AND IMPLEMENTATION OF THE SWPPP UNDER THE UNIT PRICE BID ITEM 207 FOR SEDIMENT AND EROSION CONTROL. CONTRACTOR IS REQUIRED TO COMPLY WITH ALL REQUIREMENTS OF THE SWPPP AS PART OF THIS BID ITEM.

**B. – SEQUENCE OF MAJOR ACTIVITIES:**

1. CLEAR TREES AND VEGETATION IN AREAS DESIGNATED.
2. INSTALL SEDIMENT AND EROSION CONTROLS.
3. INSTALL FORCE MAIN, GRAVITY SEWER, AND PUMP STATION.
4. PROVIDE FINAL GRADING, SEEDING AND MULCHING OF SEWER ALIGNMENT.

**C. – NAME OF RECEIVING WATERS:**

THE SITE WILL DRAIN INTO LITTLE WALNUT CREEK.

**D. – EROSION AND SEDIMENT CONTROL GENERAL NOTES**

1. STOCKPILED TOPSOIL AND EXCAVATED MATERIAL IS TO BE PROTECTED THROUGH THE USE OF TEMPORARY AND PERMANENT SEEDING, OR COVERED WITH ANCHORED STRAW MULCH.
2. FINAL GRADING WILL BE CONSISTENT WITH PRE-CONSTRUCTION TOPOGRAPHY TO MAINTAIN DRAINAGE AND AESTHETICS.
3. REMOVE ONLY THOSE TREES, SHRUBS, AND GRASSES THAT MUST BE REMOVED TO PERMIT ACTUAL CONSTRUCTION; PROTECT THE REMAINING TO PRESERVE THEIR AESTHETIC AND EROSION CONTROL VALUE.
4. ALL EROSION/SEDIMENT/DUST CONTROL PRACTICES SHALL BE PERFORMED AS DIRECTED BY THE ODNR PUBLICATION "RAINWATER AND LAND DEVELOPMENT", CURRENT EDITION. EROSION CONTROL DEVICES ARE TO BE MAINTAINED IN EFFECTIVE WORKING CONDITION DURING CONSTRUCTION AND UNTIL THE CONSTRUCTION AREA HAS BEEN PERMANENTLY STABILIZED.
5. BACKFILL TRENCHES IMMEDIATELY AFTER COMPACTION. SEED AND MULCH TRENCHES WITHIN 7 DAYS AFTER TRENCHES ARE OPENED.
6. SILT FROM CONSTRUCTION OPERATIONS SHALL NOT BE PERMITTED TO ENTER THE STORM DRAIN SYSTEM OR WATERWAYS (NATURAL OR MAN-MADE OR ADJACENT PRIVATE PROPERTY). CONSTRUCTION OCCURRING NEAR STORM DRAIN INLETS OR WATERWAYS (NATURAL OR MAN-MADE), SHALL REQUIRE EROSION CONTROL MEASURES, SUCH AS SILT FENCE AND STRAW BALES BARRIERS, TO PREVENT SILT FROM ENTERING THE STORM DRAIN AND WATERWAYS (NATURAL OR MAN-MADE OR ADJACENT PRIVATE PROPERTY).
7. TIMING OF SEDIMENT – TRAPPING PRACTICES – SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL THROUGHOUT EARTH DISTURBING ACTIVITY. SETTLING FACILITIES, PERIMETER CONTROLS AND OTHER PRACTICES INTENDED TO TRAP SEDIMENT SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING OR CONSTRUCTION AND WITHIN SEVEN DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL THE UPSLOPE DEVELOPMENT AREA IS RE-STABILIZED. THESE CONTROLS SHALL BE SELECTED AND LOCATED AS DIRECTED BY THE ENGINEER.
8. STABILIZATION OF DENUDED AREAS – DENUDED AREAS SHALL HAVE SOIL STABILIZATION APPLIED WITH SEVEN DAYS OF DISTURBANCE IF THEY ARE TO REMAIN SUBSTANTIALLY UNWORKED FOR MORE THAN 21 DAYS. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE, AND SHALL ALSO BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS WHICH MAY NOT BE AT FINAL GRADE, BUT WHICH WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 21 DAYS.
9. SEDIMENT BARRIERS – SHEET FLOW RUNOFF FROM DENUDED AREAS SHALL BE FILTERED OR DIVERTED TO A SETTLING FACILITY. THESE CONTROLS SHALL BE CONSTRUCTED AS INDICATED ON THE PLANS. ADDITIONAL CONTROLS MAY BE SELECTED AND INSTALLED AS DIRECTED BY THE ENGINEER.

10. STORM WATER INLET PROTECTION – ALL STORM SEWER INLETS WHICH ACCEPT WATER RUNOFF FROM THE PROJECT AREA SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER WILL NOT ENTER THE STORM SEWER SYSTEMS WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT, UNLESS THE STORM SEWER SYSTEM DRAINS TO A SETTLING FACILITY. THESE CONTROLS SHALL BE SELECTED AND LOCATED AS DIRECTED BY THE ENGINEER.

11. SLOUGHING AND DUMPING – NO SOIL, ROCK, DEBRIS OR ANY OTHER MATERIAL SHALL BE DUMPED OR PLACED INTO A WATER RESOURCE OR INTO SUCH PROXIMITY THAT IT MAY READILY SLOUGH, SLIP, OR ERODE INTO A WATER RESOURCE. UNSTABLE SOILS PRONE TO SLIPPING OR LAND SLIDING SHALL NOT BE GRADED, EXCAVATED, FILLED OR HAVE LOADS IMPOSED UPON THEM UNLESS THE WORK IS AUTHORIZED BY THE ENGINEER.

12. ESTABLISHMENT OF PERMANENT VEGETATION – PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL GROUND COVER IS ACHIEVED WHICH, IN THE OPINION OF THE ENGINEER, PROVIDES ADEQUATE COVER AND IS MATURE ENOUGH TO CONTROL SOIL EROSION SATISFACTORILY AND TO SURVIVE ADVERSE WEATHER CONDITIONS.

13. MAINTENANCE – ALL SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED TO MINIMIZE MAINTENANCE REQUIREMENTS. THEY SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE CONTINUED MAINTENANCE OF ALL EROSION CONTROLS DURING THE LIFE OF THE PROJECT.

14. THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE THE CURRENT PLAN IMMEDIATELY AVAILABLE OR POSTED ON THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE TO DELINEATE, ON THE PLAN, ALL EROSION AND SEDIMENTATION CONTROL WORK ACTUALLY PERFORMED; AND TO AMEND THE PLAN AS REQUIRED AS A RESULT OF HIS WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM REQUIRED MAINTENANCE PROCEDURES AND DOCUMENT THEM AS REQUIRED BY THE GENERAL PERMIT AND THE PLAN. DETAILS HAVE BEEN SHOWN ON THE PLAN IN AN EFFORT TO HELP THE CONTRACTOR PROVIDE EROSION AND SEDIMENTATION CONTROL. THE DETAILS SHOWN ON THE PLAN SHALL BE CONSIDERED A MINIMUM. ADDITIONAL OR ALTERNATE DETAILS MAY BE FOUND IN THE ODNR MANUAL "RAINWATER AND LAND DEVELOPMENT", 2006 EDITION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING NECESSARY AND ADEQUATE MEASURES FOR PROPER CONTROL FOR EROSION AND SEDIMENT RUNOFF FROM THE CONSTRUCTION AREAS, SUBJECT TO APPROVAL FROM THE ENGINEER.

15. THE PERMIT SHALL INFORM ALL CONTRACTORS AND SUBCONTRACTORS NOT OTHERWISE DEFINED AS "OPERATORS" IN PART VII OF THIS GENERAL PERMIT WHO WILL BE INVOLVED IN THE IMPLEMENTATION OF THE SWP3 OF THE TERMS AND CONDITIONS OF THIS GENERAL PERMIT. THE PERMIT SHALL MAINTAIN A WRITTEN DOCUMENT CONTAINING THE SIGNATURES OF ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED IN THE IMPLEMENTATION OF THE SWP3 AS PROOF ACKNOWLEDGING THAT THEY REVIEWED AND UNDERSTAND THE CONDITIONS AND RESPONSIBILITIES OF THE SWP3. THE WRITTEN DOCUMENT SHALL BE CREATED AND SIGNATURES SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF WORK ON THE CONSTRUCTION SITE.

**E. – EROSION AND SEDIMENT CONTROLS**

**TEMPORARY STABILIZATION**

TOP SOIL STOCKPILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 15 DAYS WILL BE IMMEDIATELY GRADED AND CLEANED UP SO AS NOT TO APPEAR DISHEVELED OR AN EYEBROW AND STABILIZED WITH TEMPORARY SEED AND MULCH NO LATER THAN 7 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA. THE TEMPORARY SEED, AGRICULTURAL LIMESTONE AND FERTILIZER SHALL BE APPLIED ACCORDING TO THE RATES STATED IN THE ODNR "RAINWATER AND LAND DEVELOPMENT MANUAL" LATEST EDITION. ALL AREAS NOT UNDER IMMEDIATE CONSTRUCTION SHALL BE KEPT NEAT. WASHOUTS SHALL BE FIXED IMMEDIATELY AND IN A SAFE MANNER FOR THE CITIZENS. ROADSIDE DITCHES AND DRAINAGE STRUCTURES SHALL BE OPERABLE IMMEDIATELY AFTER CONSTRUCTION. ALL SEDIMENT AND EROSION CONTROL REQUIREMENTS APPLY.

**PERMANENT STABILIZATION**

DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASES SHALL BE STABILIZED WITH PERMANENT SEED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY. THE PERMANENT SEED MIX, AGRICULTURAL LIMESTONE AND FERTILIZER SHALL BE APPLIED ACCORDING TO THE RATES STATED IN ODOT ITEM 659.

THE FOLLOWING SHALL APPLY IF WORK IS PERFORMED OUTSIDE OF NORMAL GROWING SEASON. BETWEEN OCTOBER 1 AND NOVEMBER 20 WHEN SOIL CONDITIONS PERMIT, PERMANENT SEEDING AREAS MAY BE PREPARED WITH LIME AND FERTILIZER BUT SHALL BE MULCHED AND ANCHORED WITHOUT SEEDING. AFTER NOVEMBER 20 AND BEFORE MARCH 15, BROADCAST RECOMMENDED SEED MIXTURE AT 150% OF RECOMMENDED RATES (CONSIDERED DORMANT SEEDING RATES).

**STRUCTURAL CONTROLS**

SILT FENCE SHALL BE CONSTRUCTED AS INDICATED ON THE STORM WATER POLLUTION PREVENTION PLAN. SILT FENCING SHALL BE OF A TYPE AS INDICATED IN THE SPECIFICATIONS AND SHALL BE INSTALLED AS SOON THE AREAS ARE CLEARED IN WHICH THE FENCE IS DESIGNATED TO BE INSTALLED. SILT FENCE SHALL BE INSTALLED AT THE TOE OF ALL SLOPES AND SHALL BE PLACED SUCH THAT NO WATER CAN FLOW AS A CONCENTRATED STREAM. IF AFTER THE INSTALLATION OF THE SILT FENCE, CONCENTRATED FLOWS OCCUR OR WATER BYPASSES THE FENCE, ADDITIONAL MEASURES SHALL BE INSTALLED OR THE EXISTING MEASURES SHALL BE MODIFIED AT THE DIRECTION OF THE ENGINEER.

**STORM WATER MANAGEMENT**

STORM WATER DRAINAGE WILL BE PROVIDED BY THE CURRENT DRAINAGE PATTERNS OF THE SITE. ADDITIONALLY, SILT FENCING ALONG THE PERIMETER OF THE SITE WILL DIRECT AND DIFUSE RUNOFF WHILE CAPTURING ANY SEDIMENT CONTAINED IN THE RUNOFF.

**F. – OTHER CONTROLS**

**WASTE MATERIALS**

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY, AND THE TRASH WILL BE HAULED TO AN OEPA APPROVED C AND DD LANDFILL AREA. NO CONSTRUCTION WASTE MATERIALS WILL BE BURIED ONSITE. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED IN THE OFFICE TRAILER AND THE CONTRACTOR(S) WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

**HAZARDOUS MATERIALS**

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE CONTRACTOR(S) WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

**OFFSITE VEHICLE TRACKING**

A STABILIZED CONSTRUCTION ENTRANCE (SEE SHEET 29) SHALL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS ONTO PUBLIC ROADS. THE PAVED AREAS OF ALL ADJACENT PUBLIC ROADS SHALL BE SWEEPED DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED IN A TARP. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT OFF-SITE TRACKING OF SEDIMENTS BY VEHICLES AND EQUIPMENT IS MINIMIZED.

THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED USING NO. 1 & NO. 2 AGGREGATE OR RECYCLED CONCRETE EQUIVALENT. THE ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 50 FEET IN LENGTH AND NOT LESS THAN 10 FEET IN WIDTH WITH A MINIMUM THICKNESS OF 6 INCHES. PLACE GEOTEXTILE OVER THE ENTIRE AREA PRIOR TO PLACING ANY AGGREGATE TO PROVIDE GREATER STABILITY.

**G. – TIMING OF CONTROLS/MEASURES**

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE STABILIZED CONSTRUCTION ENTRANCE AND EROSION AND SEDIMENT CONTROLS WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF THE SITE AND SHALL BE FUNCTIONAL THROUGHOUT ALL EARTH DISTURBING ACTIVITIES. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 21 DAYS WILL BE STABILIZED WITH TEMPORARY SEED AND MULCH WITHIN 7 DAYS OF THE LAST DISTURBANCE. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. ONLY AFTER THE ENTIRE SITE IS STABILIZED WILL THE EROSION AND SEDIMENT CONTROLS BE REMOVED.

**H. – CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS**

THE STORM WATER POLLUTION PREVENTION PLAN REFLECTS THE REQUIREMENTS FOR STORM WATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL, AS ESTABLISHED BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY. TO ENSURE COMPLIANCE, THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE "RAINWATER AND LAND DEVELOPMENT, OHIO'S STANDARDS FOR STORMWATER MANAGEMENT – LAND DEVELOPMENT AND URBAN STREAM PROTECTION", 2006 EDITION PUBLISHED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES. THERE ARE NO OTHER LOCAL, STATE OR FEDERAL REQUIREMENTS FOR SEDIMENT AND EROSION SITE PLANS (OR PERMITS), OR STORM WATER MANAGEMENT SITE PLANS (OR PERMITS).

**I. – MAINTENANCE/INSPECTION PROCEDURES**

THESE ARE THE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

\* CONSTRUCTION ROAD STABILIZATION / CONSTRUCTION ENTRANCE (CRS): BOTH TEMPORARY AND PERMANENT ROADS AND PARKING AREAS MAY REQUIRE PERIODIC TOP DRESSING WITH NEW GRAVEL. SEEDED AREAS ADJACENT TO THE ROADS AND PARKING AREAS SHOULD BE CHECKED PERIODICALLY TO ENSURE THAT A VIGOROUS STAND OF VEGETATION IS MAINTAINED. ROADSIDE DITCHES AND OTHER DRAINAGE STRUCTURES SHOULD BE CHECKED REGULARLY TO ENSURE THAT THEY DO NOT BECOME CLOGGED WITH SILT OR OTHER DEBRIS.

\* ALL CONTROL MEASURES WILL BE INSPECTED AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.5 INCHES OR GREATER.

\* ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.

\* BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE. ANY SEDIMENT DEPOSITS REMAINING IN-PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDDED.

\* SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POST, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.

\* INLET STRUCTURES TO SEDIMENT PONDS OR SETTLING AREAS SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE. STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

\* ALL TEMPORARY AND PERMANENT CONTROL PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ENSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED IN A FUNCTIONAL CONDITION UNTIL ALL UPSLOPE AREAS THEY CONTROL ARE PERMANENTLY STABILIZED. THE SWP3 SHALL BE DESIGNED TO MINIMIZE MAINTENANCE REQUIREMENTS. THE APPLICANT SHALL PROVIDE A DESCRIPTION OF MAINTENANCE PROCEDURES NEEDED TO ENSURE THE CONTINUED PERFORMANCE OF CONTROL PRACTICES.

\* THE CONTRACTOR SHALL INSTALL SILT FENCE AND SUITABLE EROSION CONTROL AROUND THE VILLAGE SITE FOR SUITABLE SOIL STORAGE AND MAINTAIN ALL EROSION CONTROL UNTIL NO OTHER EXCESS SOILS IS EXPECTED AND THE VILLAGE SEEDS AND MULCHES THE AREA AND THREAT OF EROSION HAS PASSED. SEE SHEET 29.

ISSUED FOR BIDDING			
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DESIGNED AM	DATE	07/01/2016	
CHECKED MN	JOB NO	14578119	
SCALE NONE			
<b>STORM WATER POLLUTION PREVENTION PLAN - GENERAL NOTES</b>			
<b>VILLAGE OF ASHVILLE SANITARY SEWER IMPROVEMENTS (PART B)</b>			
<b>URS Corporation</b>			
<b>27</b>			

PLOT INFO: ANDREW.MARTIN02 L:\PROJECTS\14578119\CIVIL\8119-PP27.DWG 09/22/16 2:51PM LTS: 1 PSLTS: 1

# STORMWATER POLLUTION PREVENTION PLAN

## (SWPPP)

- \* TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
- \* A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION.
- \* CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNATING INDIVIDUALS TO BE RESPONSIBLE FOR INSPECTING AND MAINTAINING ALL EROSION AND SEDIMENT CONTROLS. THESE INDIVIDUALS SHALL BE RESPONSIBLE FOR FILLING OUT INSPECTION AND MAINTENANCE REPORTS.
- \* PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE DUTIES SHALL BE INSTRUCTED AS TO THE ACTIONS NECESSARY TO MAINTAIN PROPER EROSION AND SEDIMENT CONTROLS ON THE SITE.

### J. – NON-STORM WATER DISCHARGES

IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

- \* PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).
- \* UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION).

ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO PROTECTED INLETS OR SEDIMENT CONTROL DEVICES PRIOR TO DISCHARGE.

### INVENTORY FOR POLLUTION PREVENTION PLAN

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:

- \* CONCRETE
- \* PETROLEUM BASED PRODUCTS

### K. – SPILL PREVENTION

#### MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

#### GOOD HOUSEKEEPING

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.

- \* AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
- \* ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
- \* PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
- \* SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- \* WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
- \* MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
- \* THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

#### HAZARDOUS PRODUCTS

THESE PRACTICES ARE USED TO REDUCE THE RISK ASSOCIATED WITH HAZARDOUS MATERIALS.

- \* PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE
- \* ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
- \* IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

#### PRODUCT SPECIFIC PRACTICES

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

**PETROLEUM PRODUCTS**  
ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

### L. – SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

- \* MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
- \* MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
- \* ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
- \* THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- \* SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.
- \* THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
- \* THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE AT LEAST THREE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF THE RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE.

### M. PROHIBITED CONSTRUCTION ACTIVITIES

THE CONTRACTOR SHALL NOT USE CONSTRUCTION PROCEEDINGS, ACTIVITIES OR OPERATIONS THAT MAY UNNECESSARILY IMPACT THE NATURAL ENVIRONMENT OR THE PUBLIC HEALTH AND SAFETY. PROHIBITED CONSTRUCTION PROCEDURES, ACTIVITIES OR OPERATIONS INCLUDE BUT ARE NOT LIMITED TO:

1. DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOOD PLAINS, EVEN WITH THE PERMISSION OF THE PROPERTY OWNER.
2. INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR OUTSIDE THE EASEMENT LIMITS.
3. PUMPING OF SEDIMENT-LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS INTO ANY SURFACE WATERS, ANY STREAM CORRIDORS, ANY WETLANDS, STORM DRAINS OR COMBINED SEWERS.
4. DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE AND OTHER HARMFUL WASTE INTO OR ALONGSIDE OF RIVERS, STREAMS, IMPOUNDMENTS OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO.
5. PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF THE STREAM.
6. DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA.
7. DISPOSAL OF TREES, BRUSH AND OTHER DEBRIS IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR AT UNSPECIFIED LOCATIONS.
8. OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT.
9. STORING CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIALS ON PROPERTY, PUBLIC OR PRIVATE, NOT PREVIOUSLY SPECIFIED BY THE ENGINEER FOR SAID PROJECT.
10. USING ANY SUBSTANCE OTHER THAN WATER TO CONTROL DUST.

### N. SILT FENCE NOTES

SILT FENCING SHALL UTILIZE STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS. IT IS INTENDED TO BE USED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED.

1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
3. TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.
4. WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FT. (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 WORKING DAYS FROM THE INSTALLATION OF THE SILT FENCE.
6. THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MINIMUM OF 6 IN. DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
7. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8 IN. OF CLOTH ARE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6 IN. DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.
8. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE OVERLAPPED WITH THE END STAKES OF EACH SECTION WRAPPED TOGETHER BEFORE DRIVING INTO THE GROUND.

9. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 IN. ABOVE THE ORIGINAL GROUND SURFACE AND SHALL BE A MAXIMUM OF 36" HIGH (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE).
10. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM OF A 6" OVERLAP, AND SECURELY SEALED.
11. POSTS SHALL BE SPACED AT A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 16"). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6'.
12. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1" LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2" AND SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND SURFACE.
13. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8" OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
14. WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ITEM #10 APPLYING.
15. MAINTENANCE – SILT FENCES SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.
16. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

### CRITERIA FOR SILT FENCE MATERIALS

1. FENCE POSTS – THE LENGTH SHALL BE A MINIMUM OF 32 IN. LONG. WOOD POSTS WILL BE 2-BY-2 IN. HARDWOOD OF SOUND QUALITY. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT.
2. SILT FENCE SHALL BE ODOT ITEM 712.09 TYPE C GEOTEXTILE FABRIC OR AS DESCRIBED BY THE FOLLOWING:
 

FABRIC PROPERTIES:	
MINIMUM TENSILE STRENGTH .....	120 LBS
MAXIMUM ELONGATION AT 60 LBS .....	150%
MINIMUM PUNCTURE STRENGTH .....	50 LBS
MINIMUM TEAR STRENGTH .....	40 LBS
APPARENT OPENING SIZE .....	<0.84mm
MINIMUM PERMITTIVITY .....	1x10-2SEC-1
ULTRAVIOLET EXPOSURE STRENGTH RETENTION .....	70%

### O. INLET PROTECTION

INLET PROTECTION SHALL CONSIST OF A WOODEN FRAME WITH WIRE MESH AND FILTER FABRIC BEING CONSTRUCTED AROUND ALL STORM INLET STRUCTURES, OR INLET FILTER BAG. ALL PROTECTIVE MEASURES SHALL BE IN PLACE BEFORE THE PROPOSED STORM SEWER IS MADE OPERATIONAL.

1. THE EARTH AROUND THE INLET OR CATCH BASIN SHALL BE EXCAVATED COMPLETELY TO A DEPTH OF AT LEAST 18 INCHES.
2. THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2-BY-4 IN. CONSTRUCTION GRADE LUMBER. THE 2-BY-4 IN. POSTS SHALL BE DRIVEN 1 FT. INTO THE GROUND AT THE FOUR CORNERS OF THE INLET AND THE TOP PORTION OF THE 2-BY-4 IN. FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6 IN. BELOW ADJACENT ROADS IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.
3. WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
4. GEOTEXTILE SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18 IN. BELOW THE INLET GRATE ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THAT THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
5. BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6 IN. LAYERS UNTIL THE EARTH IS EVEN WITH THE GRATE ELEVATION OF THE INLET.

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REVISIONS			
NO.	DESCRIPTION	DATE	BY
RECORD DRAWINGS			
		DATE	BY
DESIGNED AM	DATE	07/01/2016	
CHECKED MN	JOB NO	14578119	
SCALE NONE			
<b>STORM WATER POLLUTION PREVENTION PLAN - GENERAL NOTES</b>			
<b>VILLAGE OF ASHVILLE SANITARY SEWER IMPROVEMENTS (PART B)</b>			
<b>URS Corporation</b>			
<b>28</b>			

ISSUED FOR BIDDING \_\_\_\_\_ DATE \_\_\_\_\_ BY \_\_\_\_\_

ADDENDUM REVISIONS

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REVISIONS

NO.	DESCRIPTION	DATE	BY

RECORD DRAWINGS \_\_\_\_\_ DATE \_\_\_\_\_ BY \_\_\_\_\_

DESIGNED AM DATE 07/01/2016  
 CHECKED MN JOB NO 14578119  
 SCALE NONE

**STORM WATER POLLUTION PREVENTION PLAN - GENERAL NOTES**

**VILLAGE OF ASHVILLE  
 SANITARY SEWER IMPROVEMENTS  
 (PART B)**

**URS Corporation**

ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD VERIFICATION AT THE DISCRETION OF THE OHIO EPA.

**SEDIMENT AND EROSION CONTROL NOTES**

SITES UTILIZED BY THE CONTRACTOR FOR THE PURPOSE OF STORING EQUIPMENT, EXCESS EXCAVATED MATERIALS, STRIPPED TOPSOIL, ETC., SHALL BE ENVIRONMENTALLY SUITABLE FOR SUCH PURPOSE AND SHALL BE APPROVED IN ADVANCE BY THE PROJECT ENGINEER. ENVIRONMENTALLY SUITABLE SITES SHALL BE LEVEL, DEVOID OF MATURE STANDS OF TREES, AND ISOLATED FROM DRAINAGE FACILITIES AND FEATURES, WETLANDS, STREAMS, AND STREAM CORRIDORS.

THE CLEANUP AND DISPOSAL OF EXCESS EXCAVATED MATERIALS SHALL BE DONE AS SOON AS PRACTICAL AND AS THE PROJECT ENGINEER MAY DIRECT.

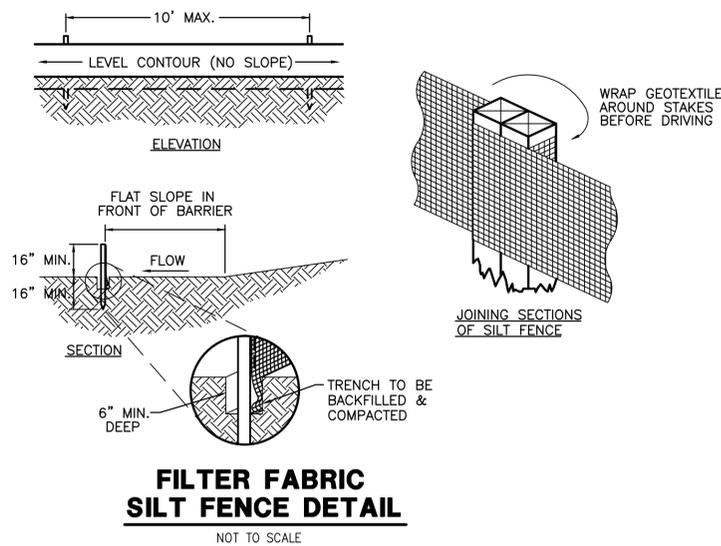
STRAW BALES, SILT FENCES, OR OTHER FILTERING DEVICES SHALL BE MAINTAINED AT AREAS OF STOCKPILED MATERIALS, EXCAVATED AREAS, CATCH BASINS, AND OTHER STORM WATER INLET STRUCTURES IN CONSTRUCTION AREAS TO CONTROL SILT RUNOFF.

ALL DEWATERING FLOWS SHALL BE KEPT FREE OF SILT, SEDIMENTS, DEBRIS, AND OTHER POLLUTANTS THROUGH APPROPRIATE MEANS (SETTLING BASINS, FILTER, ETC.); FOLLOWING THIS, THE FLOWS SHALL ONLY BE RELEASED DIRECTLY INTO STORM SEWERS, STREAM CHANNELS, TO OTHER STABILIZED DRAINAGE COURSES AND NOT ONTO EXPOSED SOILS, STEEP SLOPES OR ANY OTHER SITE WHERE FLOWS COULD CAUSE FURTHER EROSION.

ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT MANUAL.

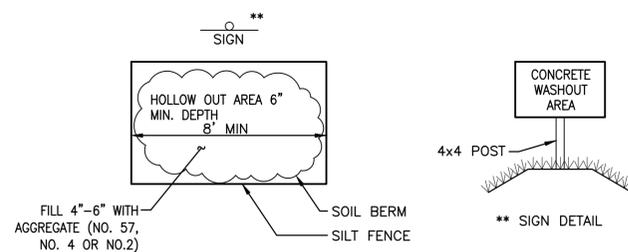
CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECYCLED OR RECLAIMED CONCRETE OF EQUIVALENT SIZE.
2. LENGTH - 70' MIN.
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - FOURTEEN (14) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. FILTER CLOTH - PLACE OVER THE ENTIRE AREA OF DRIVE PRIOR TO PLACING STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ON THE PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND CLEAN OUT AND/OR REPAIR OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
10. PRIOR TO RESTORATION, REMOVE AND DISPOSE OF ALL CONSTRUCTION ENTRANCE MATERIALS AND RESTORE THE AREA TO THE PRE-EXISTING GRADE AND DRAINAGE CONDITION.



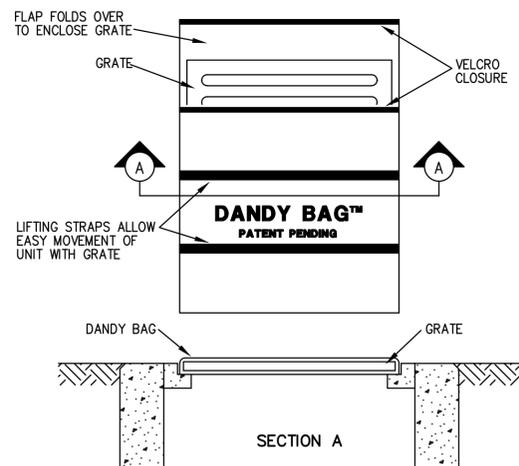
**FILTER FABRIC SILT FENCE DETAIL**

NOT TO SCALE



**CONCRETE WASHOUT AREA DETAIL**

NOT TO SCALE

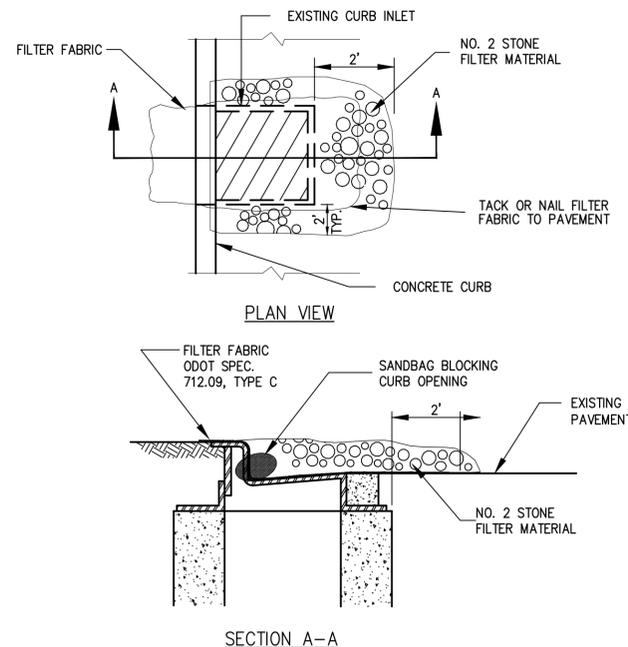


**CATCH BASIN FILTER DETAIL**

NOT TO SCALE

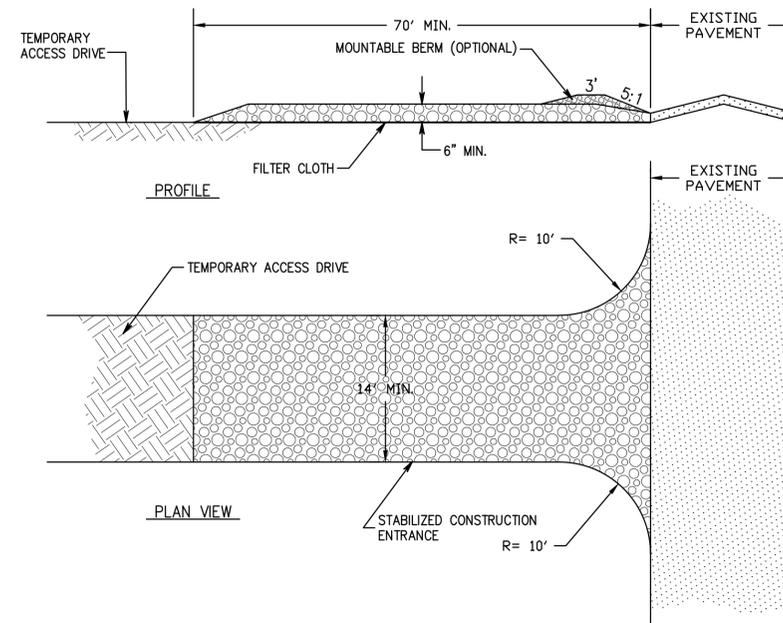
INSTALLATION: STAND GRATE ON END. PLACE DANDY BAG™ OVER GRATE. ROLL GRATE OVER SO THAT OPEN END IS UP. PULL UP SLACK. TUCK FLAP IN. PRESS VELCRO STRIPS TOGETHER. BE SURE END OF GRATE IS COMPLETELY COVERED BY FLAP OR DANDY BAG™ WILL NOT WORK PROPERLY. HOLDING HANDLES. CAREFULLY PLACE DANDY BAG™ WITH GRATE INSERTED INTO CATCH BASIN FRAME.

MAINTENANCE: WITH A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL REMOVE SILT & OTHER DEBRIS OFF SURFACE AFTER EACH EVENT. REMOVE FINE MATERIAL FROM INSIDE ENVELOPE AS NEEDED.



**CURB INLET FILTER DETAIL**

NOT TO SCALE



**STABILIZED CONSTRUCTION ENTRANCE**

NOT TO SCALE