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I. CONTRACTOR IS TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND ENSURE NO CONFLICT EXIST WITH PROPOSED IMPROVEMENTS. NOTIFY ENGINEER IMMEDIATELY IF UTILITIES ARE LOCATED DIFFERENTLY THAN SHOWN. THE CONTRACTOR SHALL COORDINATE WITH EACH RESPECTIVE UTILITY COMPANY IN ORDER TO RELOCATE, IF NEEDED, IN CONFORMANCE WITH THEIR GUIDELINES.

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- 2. BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE POWER COMPANY FOR THE CONSTRUCTION OF ELECTRICAL CONDUIT TO PROVIDE SERVICE TO THE TRANSFORMER. 3. BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE GAS COMPANY FOR THE CONSTRUCTION OF THE GAS LINE BETWEEN METER AND MAIN
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING, PRIOR TO CONSTRUCTION, ALL EXISTING LOCATIONS AND INVERT ELEVATIONS OF SANITARY SEWERS, STORM DRAINAGE, AND WATER MAINS. IF ANY INVERT ELEVATION VARIES MORE THAN 0.1 FT. FROM RECORDED ELEVATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. WORK SHALL NOT PROCEED UNTIL THE CONTRACTOR IS NOTIFIED BY THE ENGINEER.
- 5. CONNECT TO EXISTING UTILITIES AND INSTALL UTILITIES IN COMPLIANCE WITH REQUIREMENTS OF APPROPRIATE LOCAL AGENCY STANDARD CONSTRUCTION DRAWINGS.
- 6. COORDINATE WITH ARCHITECTURAL PLANS TO ASSURE ACCURACY OF UTILITY CONNECTIONS AND COMPLIANCE WITH LOCAL CODES.
- 7. ALL EXISTING SEWERS AND DRAINAGE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION INCLUDING CLEANING OF ANY SILT OR DEBRIS ACCUMULATED IN STRUCTURES OR DITCHES.
- 8. COORDINATE EXACT TRENCHING, ROUTING AND POINT OF TERMINATIONS WITH ALL UTILITIES COMPANIES, BOTH PUBLIC AND PRIVATE.
- 9. CONTRACTOR TO PROVIDE CURB UNDERDRAIN & ROUTE CURB UNDERDRAIN TO PROPOSED DRAINAGE STRUCTURES.
- 10. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL PLANS FOR ROOF DRAIN CONNECTIONS. ALL CONNECTIONS SHALL BE MADE TO STORM SEWERS WITH A MINIMUM 6" PVC @ 1.00% UNLESS NOTED ON PLANS.
- 11. CONTRACTOR TO COORDINATE LANDSCAPE UNDERDRAINS WITH LANDSCAPING PLANS. 12. THIS PLAN DETAILS PIPES UP TO THE BUILDING FACE. REFER TO DRAWINGS BY OTHERS FOR BUILDING CONNECTIONS. CONTRACTOR SHALL
- SUPPLY AND INSTALL PIPE ADAPTERS AS NECESSARY. 13. UTILITY CONNECTION DESIGN AS REFLECTED ON THE PLAN MAY CHANGE SUBJECT TO UTILITY COMPANY AND LOCAL AGENCY REVIEW.
- 14. UTILITY PENETRATIONS AND LOCATIONS ARE SHOWN FOR THE CONTRACTOR'S INFORMATION AND SHALL BE VERIFIED WITH THE MEP DRAWINGS.
- 15. PRIOR TO PAVING, CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND CABLES TO PYLON SIGNS AND SITE LIGHTING WITH THE ELECTRICIAN/ELECTRICAL CONTRACTOR AS APPROPRIATE. REFERENCE SITE LIGHTING PLAN FOR POLE LOCATIONS AND ARCHITECTURAL PLANS FOR CONDUIT/WIRING LAYOUT.
- 16. ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE OWNER, ENGINEER, AND APPROPRIATE REGULATORY AGENCIES PRIOR TO INSTALLATION.
- 17. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, ALL SANITARY SEWER PIPING SHALL BE POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS A.S.T.M. D-3034, TYPE PSM WITH A MAXIMUM SDR OF 26, WITH FLEXIBLE ELASTOMERIC SEAL JOINTS, A.S.T.M. D-3212. PVC SDR 35 IS PERMITTED FOR SANITARY SEWER WITH LESS THAN 13 FEET OF COVER.
- 18. CONTRACTOR MUST ACQUIRE PERMITS FROM CANTON CITY ENGINEERING FOR ALL SANITARY AND STORM SEWER CONNECTION PERMITS. NO FEE FOR SAID PERMITS. SANITARY SEWER NOTES
- PER THE CITY OF CANTON "ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED."
- DEFLECTION TESTS SHALL BE PERFORMED NO SOONER THAN 60 DAYS FOLLOWING THE COMPLETION OF BACKFILL. A RESPONSIBLE AGENCY OF AN ACCREDITED, INDEPENDENT TESTING LABORATORY SHALL PERFORM FINAL DEFLECTION TESTS AND SUBMIT VERIFICATION RECORDS OF RESULTS AND DATES TESTED, NO PIPE UNDER LOAD SHALL EXCEED A DEFLECTION OF 5 PERCENT OF THE BASE INSIDE DIAMETER PER ASTM D-2680 AND ASTM D-3034. DEFLECTION TESTING SHALL BE ACCOMPLISHED BY USING A GO, NO-GO MANDREL THROUGH THE PIPE, OR METHODS APPROVED BY LOCAL AUTHORITY. (UNIFORM STANDARDS FOR SEWAGE IMPROVEMENTS)
- AN AIR LEAKAGE TEST SHALL BE PERFORMED PER ASTM F-1417. NOTE THAT THE LEAKAGE TEST LIMIT IS 100 GALLONS/INCH DIAMETER/MILE/DAY PER THE OHIO EPA STANDARDS.
- ALL MANHOLES MUST BE TESTED FOR LEAKAGE PER ASTM C-1244 4.A. P.V.C - SDR 35 - ASTM D-3034 - ALL PIPE 12' OR LESS BELOW GRADE
- 4.B. P.V.C. SDR 26 ASTM D-3034 ALL PIPE BETWEEN 12' AND 20' BELOW GRADE 4.C P.V.C. - SDR 21 - ASTM D-2241 - ALL PIPE 20' OR MORE BELOW GRADE
- 5. ALL SEWER PIPE IS TO BE SAW CUT, NOT BROKEN
- 6. THE INSTALLATION OF SEWERS SHALL BE IN ACCORDANCE WITH CITY OF CANTON STANDARD DRAWINGS FOR SEWER IMPROVEMENTS.
- 7. ALL SEWER CONDUITS TO BE BEDDED AND BACKFILLED PER CITY STANDARD DETAIL #19.
- 8. ALL MANHOLES SHALL BE SET TO GRADE PER THE CONSTRUCTION PLANS, BY THE SEWER CONTRACTOR AT THE TIME OF INSTALLATION. THE FINAL ADJUSTMENT OF THE CASTINGS SHALL BE THE RESPONSIBILITY OF THE SEWER CONTRACTOR AND THE FINAL INSPECTION, APPROVAL, AND ACCEPTANCE OF THE SEWER SYSTEM SHALL BE CONTINGENT UPON THIS FINAL ADJUSTMENT OF THE CASTINGS.
- 9. LATERAL CONNECTIONS TO BUILDING SITES SHALL BE A MINIMUM OF SIX INCHES (6") IN DIAMETER. LATERAL CONNECTIONS SHALL BE INSTALLED UTILIZING A LASER OR GRADE BAR DEVICES. SANITARY SEWERS AND LATERALS TO BE INSTALLED PER CITY STANDARD DRAWING #20.
- 10. O-RING JOINTS FOR SANITARY SEWER MAIN SHALL MEET ASTM 3212 STANDARDS.
- 11. BELL ENDS OF SANITARY MAINS ARE TO BE PLACED AT UPSTREAM END. 12. FLEXIBLE GASKETS ON SEWER LINE CONNECTIONS SHALL CONFORM TO ASTM C-923.
- 13. ALL PIPE BETWEEN MANHOLES SHALL BE THE SAME MATERIAL. THE LOWEST DEPTH OF PIPE BETWEEN MANHOLES SHALL GOVERN MATERIAL TYPE
- FOR THE ENTIRE LENGTH. 14. ALL SANITARY SEWERS SHALL INCLUDE GASKETTED JOINTS THAT CONFORM TO ASTM F477.
- 15. ALL SANITARY SEWER MANHOLE JOINTS SHALL BE FITTED WITH RESILIENT RUBBER GASKETS.
- 16. MAINTAIN EXISTING LATERAL SLOPE TO CLEAN OUT CONNECTION.

STORM SEWER NOTES

- 1. STORM SEWER PIPE MATERIAL SHALL BE PER ODOT 707.33 CORRUGATED SMOOTH-LINE HPDE PIPE.
- 2. ALL STORM SEWER PIPE IS TO BE SAW CUT, NOT BROKEN.
- 3. ALL SEWER CONDUITS TO BE BEDDED AND BACKFILLED PER CITY STANDARD DRAWING #19.
- 4. ALL MANHOLES SHALL BE SET TO GRADE PER THE CONSTRUCTION PLANS, BY THE CONTRACTOR AT THE TIME OF INSTALLATION. THE FINAL ADJUSTMENT OF THE CASTINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 5. MAINTAIN EXISTING LATERAL SLOPE TO STRUCTURE CONNECTION.

LEGEND

	MEASURED BOUNDARY	<<	EX. GUY WIRE
	BOUNDARY TIE	∘U.P.	EX. UTILITY POLE
	ADJACENT BOUNDARY	e	EX. ELECTRICAL BOX /METER
	EASEMENT	TT	EX. UNDERGROUND TELEPHONE
X	FENCE	GG	EX. GAS
)	EX. STORM SEWER	□G	EX. GAS RISER
0	EX. MANHOLE	ΠT	EX. TELEPHONE BOX
	EX. CATCH BASIN/INLET		EX. CURB AND GUTTER
⊳	EX. SANITARY SEWER	B	EX. BOLLARD
• C.O.	CLEANOUT	-0-	EX. SIGN
W	EX. WATER MAIN	G	EX. GAS VALVE
	EX. HYDRANT	G	EX. GAS METER
⊗- W	EX. SHUTOFF OR CURB BOX	$\langle \mathbb{W} \rangle$	EX. WATER METER
W	EX. GATE VALVE IN BOX	4	PROP. SANITARY SEWER
OHEOHE	EX. OVERHEAD ELECTRIC	((PROP. STORM SEWER
EE	EX. UNDERGROUND ELECTRIC		PROP. STORM MANHOLE
		0	PROP. PLAZA/YARD DRAIN



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N 8" PVC INV. 1042.06

E 8" VCP INV. 1042.26 S 8" VCP INV. 1042.81

EX. BUILDING



462 SOUTH LUDLOW ALLEY COLUMBUS, OHIO 43215 614 6212796 MKSKSTUDIOS.COM

client / owner City of Canton project name CENTENNIAL PLAZA project address 301-399 Market Ave N, Canton, OH 44702
architect SoL HARRIS/DAY 6677 FRANK AVENUE NW, NORTH CANTON OHIO 44720 p 330.493.3722 SOLHARRISDAY.COM
structural engineer ARUP 77 WATER STREET NEW YORK, NY 10005 p 212.896.3000 ARUP.COM
civil engineer ATWELL 7100 E PLEASANT VALLEY ROAD SUITE 220 INDEPENDENCE, OH 44131 p 440.349.2000 ATWELL-GROUP.COM
lighting design / electrical engineer TEC STUDIO / TECH INC. 7510 SLATE RIDGE BOULEVARD COLUMBUS, OH 43068 p 614.866.2868 TECSTUDIOINC.COM
water feature SOUTHERN AQUATICS, INC. 150 HILDEN RD SUITE 305 PONTE VEDRA BEACH. FL 32081

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STATE OF STATE	
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^{issue date} 06.04.2019	project number c18514
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UTILITY	(PLAN
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---->- TEMPORARY DIVERSION TEMPORARY CHECK DAM LIMITS OF DISTURBANCE CE CONSTRUCTION ENTRANCE SF SILT FENCE IP INLET PROTECTION (PS) PERMANENT SEEDING

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CuB CHILI-URBAN LAND COMPLEX UNDULATING

MAINTENANCE TASKS AND SCHEDULE FOR BMP					
TASK	SYNTHETIC TURF	CATCH BASIN INLETS	STORM SEWER SYSTEM	SCHEDULE	
INSPECT FOR SEDIMENT ACCUMULATION & REMOVE	х	x	х	ANNUALLY	
INSPECT FOR DEBRIS AND CLEAN DEBRIS	х	x	х	AFTER MAJOR STORMS	
INSPECT STRUCTURAL ELEMENTS	х	x	х	AFTER MAJOR STORMS	

	SITE DESCRIPTION	
	FACILITY NAME & ADDRESS: CANTON CENTENNIAL PARK 301-399 MARKET AVENUE NORTH	
	AUTHORITY FOR AUTHORIZING AND AMENDING THE SWP3: INDEPENDENCE, OH 44131 CONTACT: DALE HAYWOOD, PE, PS, CPESC PHONE: (440) 349–2000	к
	EMAIL: DHAYWOOD@ATWELL-GROUP.COM NPDES PERMIT #: PENDING ESTIMATED START DATE: JULY, 2019	
	ESTIMATED COMPLETION DATE: AUGUST, 2020 a. DESCRIBE THE NATURE AND TYPE OF CONSTRUCTION ACTIVITY: b. PROPOSED PARK IMPROVEMENTS	
	 c. TOTAL AREA OF THE SITE EXPECTED TO BE DISTURBED: 2.00 ACRES d. PRE-DEVELOPED RUNOFF COEFFICIENT: 	
	C=0.53 e. POST-DEVELOPED RUNOFF COEFFICIENT: C=0.66 f. ESTIMATED % IMPERVIOUS AREA IN POST DEVELOPED STATE:	
0 10 20	40% g. EXISTING SOIL TYPES: THE SITE CONSIST OF 100% CHILI-URBAN LAND COMPLEX, UNDULATING SOIL.	J
1" = 20 FEET	i. DESCRIBE PRIOR LAND USES: THE SITE IS CURRENTLY A PUBLIC PARK USED FOR COMMUNITY EVENTS j. SEQUENCE OF MAJOR CONSTRUCTION OPERATIONS:	
	START END SOIL EROSION CONTROL SEQUENCE OF CONSTRUCTION DAY DAY CONTACT STARK COUNTY SOIL AND WATER CONSERVATION DISTRICT TO SCHEDULE A	
I I I I I I I I I I I I I I I I I I I	' ' PRECONSTRUCTION MEETING 330-451-7644 2 5 INSTALL PROTECTIVE FENCING 6 8 SITE DEMOLITION	
ILLIN'S	8 10 CLEARING & GRUBBING 10 15 STRIP TOP SOIL 15 25 CONSTRUCT STORM SEWER	
	25 27 INSTALL INLET PROTECTION 27 47 SITE GRADING 100 105 FINAL GRADE SITE	I
	105 115 INSTALL CURB AND PAVEMENT 118 120 ONCE SITE IS 80% STABILIZED, CONTACT STARK COUNTY SOIL AND WATER CONSERVATION DISTRICT TO SCHEDULE A WALK THROUGH BEFORE THE BMPs ARE REMOVED. AFTER APPROVAL REMOVE SILT FENCE, TEMP DIVERSIONS, CHECK DAMS, INLET PROTECTION, ETC. MONITOR AND MAINTAIN STABILIZED AREAS, AND RESEED AS NEEDED	
0-1051-	 k. RECEIVING WATER BODY OR MS4: CITY OF CANTON MS4 I. DETAIL OF INDIVIDUAL LOT WITH SEDIMENT AND EROSION CONTROLS FOR CONSTRUCTION SITES WITH NO CENTRALIZED SEDIMENT CONTROLS (e.g. A SETTLING POND OR INLET PROTECTION) WHICH RECEIVES DRAINAGE FROM MULTIPLE LOTS: 	
	m. INCLUDE THE LOCATION OF AND DESCRIPTION OF STORM WATER DISCHARGES ASSOCIATED WITH DEDICATED ASPHALT AND/OR CONCRETE BATCH PLANTS COVERED BY THE NPDES CONSTRUCTION STORM WATER GENERAL PERMIT: PROJECT DESCRIPTION	н
	THE PROJECT WILL CONSIST OF IMPROVEMENTS ON 3RD STREET, 4TH STREET, AND COURT STREET. A PERFORMANCE STAGE AND CANOPY AS WELL AS A CAFE AND RESTROOM WILL BE CONSTRUCTED IN THE PARK AREA.	
	THE STANDARD SPECIFICATIONS & DRAWINGS OF THE CITY OF CANTON ENGINEERING DEPARTMENT AND THE STATE OF OHIO 2013 CMS MANUAL, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS SHALL GOVERN THESE IMPROVEMENTS.	
	DUTY TO INFORM CONTRACTORS AND SUBCONTRACTORS	
	THE PERMITTEE (REPRESENTATIVE THAT OBTAINS A CONSTRUCTION GENERAL PERMIT FROM OHIO EPA) SHALL INFORM <u>ALL</u> CONTRACTORS AND SUBCONTRACTORS NOT OTHERWISE DEFINED AS "OPERATORS" IN PART VII OF OHIO EPA'S CONSTRUCTION GENERAL PERMIT (OHCOODOD5), WHO WILL BE INVOLVED IN THE IMPLEMENTATION OF THE STORMWATER POLLUTION PREVENTION	
	PLAN (SWP3), OF THE TERMS AND CONDITIONS OF THE GENERAL CONSTRUCTION PERMIT. FURTHERMORE, THE PERMITEE SHALL MAINTAIN THIS DOCUMENT CONTAINING THE SIGNATURES OF <u>ALL</u> CONTRACTORS AND SUBCONTRACTORS INVOLVED IN THE IMPLEMENTATION OF THE SWP3 AS PROOF ACKNOWLEDGING THAT THEY REVIEWED AND UNDERSTAND THE <u>CONDITIONS</u> AND <u>RESPONSIBILITIES</u> OF THE SWP3, INCLUDING ALL: (I) EROSION CONTROLS; (II) SEDIMENT CONTROLS; (III) NON-SEDIMENT	G
	POLLUTANT CONTROLS; AND (IV) POST-CONSTRUCTION CONTROLS (OHIO EPA'S CONSTRUCTION GENERAL PERMIT). IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) RULES AND OHIO EPA'S CONSTRUCTION CENERAL REPAIL THESE SIGNATURES ARE REQUIRED TO BE PROVIDED PRIOR TO COMMENCEMENT OF WORK AT	
	(PERMITTED FACILITY NAME)	
	THE PERMITTEE HAS REVIEWED THE CONDITIONS OF THE SWP3 WITH ME AND EXPLAINED MY RESPONSIBILITIES WITH REGARDS TO THE ABOVE REFERENCED CONSTRUCTION ACTIVITY IN ACCORDANCE WITH OHIO EPA'S CONSTRUCTION GENERAL PERMIT.	
	CONTRACTOR/SUBCONTRACTOR COMPANY DATE	
		F
		Г
	SEDIMENT AND EROSION CONTROL NOTES	
	1. ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST CONFORM TO THE SPECIFICATION OF RAINWATER AND LAND DEVELOPMENT, OHIO STANDARDS FOR STORM WATER MANAGEMENT, LAND DEVELOPMENT AND URBAN STREAM.	
	2. CONSTRUCTION ACTIVITIES SHALL BE SCHEDULED SUCH THAT A MINIMUM AREA OF THE SITE IS DISTURBED AT A TIME. CONSTRUCTION OPERATION SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE SOIL EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION IN CRITICAL AREAS AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING OPERATIONS. CONTRACTOR SHALL REDUCE	
	EFFECTS OF STORM WATER BY USING AND/OR MAINTAINING GRASSED SWALES, INFILTRATION STRUCTURES, OR WATER DIVERSIONS. 3. SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.	
	4. CLEANUP WILL BE DONE IN A MANNER TO ENSURE THAT EROSION CONTROL MEASURES ARE NOT DISTURBED.	E
	5. TEMPORARY SOIL STABILIZATION SHALL OCCUR WITHIN <u>7 DAYS</u> AFTER ROUGH GRADING IF THE AREA WILL REMAIN IDLE LONGER THAN <u>14 DAYS</u> . ANY DISTURBED AREA THAT IS NOT GOING TO BE WORKED FOR 14 DAYS OR MORE MUST BE SEEDED AND MULCHED BY NOVEMBER 1 OR MUST HAVE A DORMANT SEEDING OR MULCH COVER APPLIED BETWEEN NOVEMBER 1 AND MARCH.	
	6. TRENCHES FOR UNDERGROUND UTILITY LINE AND PIPES SHALL BE TEMPORARILY STABILIZED WITHIN <u>7 DAYS</u> IF THEY ARE TO REMAIN INACTIVE FOR <u>14</u> <u>DAYS</u> , TRENCH DEWATERING DEVICES (DANDY BAGS – SEE DETAIL SHEET) SHALL DISCHARGE IN A MANNER THAT FILTERS SOIL-LADEN WATER BEFORE DISCHARGING IT TO A RECEIVING DRAINAGE DITCH OR POND. IF SEEDING, MULCHING OR OTHER EROSION AND SEDIMENT CONTROL MEASURES WERE PREVIOUSLY INSTALLED; THESE PROTECTIVE MEASURES SHALL BE REINSTALLED. PIPELINES WITH JOINTS THAT ALLOW A MANUFACTURED LENGTH OF PIPE TO BE PLACED IN THE TRENCH WITH THE PIPE JOINT ASSEMBLED/MADE IN THE TRENCH REQUIRE AN OPEN PIPELINE TRENCH THAT IS ONLY SLIGHTLY LONGER THAN THE LENGTH OF PIPE BEING INSTALLED. THE TOTAL LENGTH OF EXCAVATED TRENCH OPEN AT ANY TIME SHOULD NOT BE THE GREATER THAN THE TOTAL LENGTH OF PIPELINE/UTILITY THAT CAN BE PLACED IN THE TRENCH AND BACK-FILLED IN ONE WORKING DAY. NO MORE THAN 50 LINEAL FEET OF OPEN TRENCH SHOULD EXIST WHEN PIPELINE/UTILITY LINE INSTALLATION CEASES AT THE END OF THE WORK DAY.	
	8. ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED WITHIN <u>7 DAYS</u> OF FINAL GRADING. FURTHER, SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETE, AT WHICH TIME TEMPORARY MEASURES WILL BE REMOVED. PERMANENT VEGETATION IS A	
	GROUND COVER DENSE ENOUGH TO COVER 80% OF THE SOIL SURFACE AND MATURE ENOUGH TO SURVIVE WINTER WEATHER CONDITIONS. 9. SILT FENCE TO BE 2' MINIMUM FROM PROPERTY LINES IN AREAS WHERE WORK IS NEAR ADJACENT PROPERTIES.	U
	10. HAUL ROUTES- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP OF ANY MUD, DIRT, OR DEBRIS DEPOSITED ON HAUL ROADS AS A RESULT OF HIS OPERATIONS. SOIL SHALL BE REMOVED FROM ROADS AND PAVED SURFACES AT THE END OF EACH DAY IN SUCH A MANNER THAT DOES NOT CREATE OFF-SITE SEDIMENTATION IN ORDER TO ENSURE SAFETY AND ABATE OFF-SITE SOIL LOSS. COLLECTED SEDIMENTS SHALL BE PLACED IN A STABLE LOCATION ON SITE OR TAKEN OFF-SITE TO A STABLE LOCATION. CONTRACTOR SHALL USE STATE ROUTES (AND SHORTEST DISTANCE NON-STATE ROUTES) FOR PROJECT HAUL ROUTE. 11. FOR DISTURBED AREAS WITHIN 50 FEET OF A STREAM REMAINING DORMANT FOR OVER 14 DAYS, TEMPORARY EROSION CONTROLS SHALL BE APPLIED WITHIN 2 DAYS.	
	12. FOR DISTURBED AREAS OVER 50 FEET AWAY FROM A STREAM REMAINING DORMANT FOR OVER 14 DAYS, TEMPORARY EROSION CONTROLS SHALL BE APPLIED WITHIN 7 DAYS.	
	13. FOR DISTURBED AREAS THAT WILL BE LEFT IDLE OVER WINTER, TEMPORARY EROSION CONTROLS SHALL BE APPLIED PRIOR TO ONSET OF WINTER.	С
	14. FOR DISTURBED AREAS WITHIN 50 FEET OF A STREAM AT FINAL GRADE, PERMANENT EROSION CONTROLS SHALL BE APPLIED WITHIN 2 DAYS OF	
~	REACHING FINAL GRADE. 15. FOR DISTURBED AREAS REMAINING DORMANT FOR OVER 1 YEAR OR AT FINAL GRADE, PERMANENT EROSION CONTROLS SHALL BE APPLIED WITHIN 7	
	DAYS.	
	16. SEDIMENT CONTROL DEVICES SHALL BE IMPLEMENTED FOR ALL AREAS REMAINING DISTURBED FOR OVER 14 DAYS.	
	18. THE SEDIMENT STORAGE ZONE OF THE SILT TRAPS AND BASINS SHALL BE CLEANED OUT WHEN THE SILT OCCUPIES 40 PERCENT OF THE SEDIMENT	
	STURAGE ZUNE (APPROXIMATELY ONE-HALF OF THE SEDIMENT STORAGE ZONE DEPTH). 19. ALL SILT TRAPS AND SEDIMENTATION BASINS SHALL BE SURROUNDED BY ORANGE CONSTRUCTION FENCING.	В
	SWP3 CERTIFICATION	
	I, THE UNDERSIGNED, CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGED THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR CATHERING THE INFORMATION. THE	
	INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS." THIS STATEMENT MUST BE DATED AND SIGNED BY ALL APPLICABLE PARTIES	
	WITH INDICATION OF WHAT ACTIVITY THEY ARE RESPONSIBLE FOR.	

ATWELL, LLC. Dale Hayrood



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ATWELL
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water feature
SOUTHERN AQUATICS, INC.
150 HILDEN RD SUITE 305 PONTE VEDRA BEACH, FL 32081 p 904.824.1110 SAIFOUNTAINS COM

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issue date 06.04.2019	project numbe c18514
issue date 06.04.2019 sheet name	project numbe c18514
issue date 06.04.2019 sheet name STORMV PREVEN	project numbe c18514 VATER POLLUT TION PLAN

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Specifications for Dust Control				
 Vegetative Cover and/mulch – Apply temporary or permanent seeding and mulch to areas that will remain idle for over 21 days. Saving existing trees and large shrubs will also reduce soil and air movement across disturbed areas. See Temporary Seeding; Permanent Seeding; Mulching Practices; and Tree and Natural Area Protection practices. Watering – Spray site with water until the surface is wet before and during grading and repeat as needed, especially on haul roads and other heavy traffic routes. Watering shall be done at a rate that prevents dust but does not cause soil erosion. Wetting agents shall be utilized according to manufacturers instructions. Spray-On Adhesives – Apply adhesive according to the following table or manufacturers' instructions. 	 Stone – Graded roadways and other suitable areas will be stabilized using crushed stone or coarse gravel as soon as practicable after reaching an interim or final grade. Crushel stone or coarse gravel can be used as a permanent cover to provide control of soil emissions. Barriers – Existing windbreak vegetation shall be marked and preserved. Snow fencing or other suitable barrier may be placed perpendicular to prevailing air currents at intervals of about 15 times the barrier height to control air currents and blowing soil. Calcium Chloride - This chemical may be applied by mechanical spreader as loose, dry granules or flakes at a rate that keeps the surface moist but not so high as to cause water pollution or plant damage. Application rates 			

Adhesive	Water Dilution (Adhesive: Water)	Nozzle Type	Application Rate Gal./Ac
Latex Emulsion	12.5:1	Fine	235
Resin in Water Acrylic Emulsion (No-traffic)	4:1	Fine	300
Acrylic Emulsion (No-traffic)	7:1	Coarse	450
Acrylic Emulsion (Traffic)	3.5:1	Coarse	350

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- 7. Operation and Maintenance When Temporary Dust Control measures are used; repetitive treatment should be applied as needed to accomplish control.

Street Cleaning - Paved areas that have accumulated sediment from construction should be cleaned daily, or as needed, utilizing a street sweeper or bucket -type endloader or scraper.



DANDY BAG® SPECIFICATIONS				
NOTE: THE DANDY BAG® WILL BE MANUFACTURED IN THE U.S.A. FROM A				
WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:				
HI-FLOW DANDY BAG® (SAFETY ORANGE)				
Mechanical Properties	Test Method	Units	MARV	
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.62 (365) X 0.89 (200)	
Grab Tensile Elongation	ASTM D 4632	%	24 X 10	
Puncture Strength	ASTM D 4833	kN (lbs)	0.40 (90)	
Mullen Burst Strength ASTM D 3786 kPg (psi) 3097 (450)				
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.51 (115) X 0.33 (75)	
UV Resistence	ASTM D 4355	*	90	
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)	
Flow Rate	ASTM D 4491	1/min/m² (gal/min/ft²)	5907 (145)	

*Note: All Dandy Bags® can be ordered with our optional oil absorbent pillows

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FIELD SECTION

SECTION A-A

NON-SEDIMENT POLLUTANT CONTROL NOTES

1. ANY AND ALL WASTE MATERIALS (SOLID, HAZARDOUS, TOXIC, CONTAMINATED SOILS, ETC) GENERATED AT THE SITE SHALL BE PROPERLY DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL RULES AND REGULATIONS. ON-SITE STORAGE CONTAINERS SHALL BE COVERED AND NOT LEAKING. IT IS PROHIBITED TO BURN, BURY OR POUR OUT ON THE GROUND OR INTO THE SEWERS ANY SOLVENTS, PAINTS, GASOLINE, DIESEL FUEL, MOTOR OIL, HYDRAULIC FLUID, ANTIFREEZE, CURING COMPOUND, OR ANY OTHER TOXIC OR HAZORDOUS WASTES.

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2. ALL CLEAN HARD FILL MUST BE FREE FROM CONTAMINATION.

3. ALL CLEAN CONSTRUCTION WASTES TO BE DISPOSED OF ON THE PROPERTY MUST BE DONE SO IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL RULES AND REGULATIONS. 4. ALL CONSTRUCTION AND DEMOLITION DEBRIS (C&DD) WASTE WILL BE DISPOSED OF IN AN

OHIO EPA APPROVED C&DD LANDFILL AS REQUIRED BY OHIO REVISED CODE (ORC) 3714. NOTE: CONSTRUCTION DEBRIS MAY BE DISPOSED OF ON SITE, BUT DEMOLITION DEBRIS MUST BE DISPOSED OF IN AN OHIO EPA APPROVED LANDFILL. MATERIALS WHICH MAY CONTAIN ASBESTOS MUST COMPLY WITH AIR POLLUTION REGULATIONS (SEE OHIO ADMINISTRATIVE CODE 3745-20). 5. IF THE CONTRACTOR WILL UTILIZE AN ABOVE GROUND STORAGE TANK (AST) OF 660 GALLONS OR MORE, TOTAL ABOVE GROUND TANK STORAGE OF 1,330 GALLONS, OR BELOW GROUND STORAGE OF 42,000 GALLONS OF FUEL, HE SHALL SUBMIT A SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN TO THE CITY FOR APPROVAL PRIOR TO CONSTRUCTION.

6. ALL CONTAMINATED SOILS MUST BE TREATED AND/OR DISPOSED IN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITIES OR HAZARDOUS WASTE TREATMENT, STORAGE, OR DISPOSAL FACILITIES (TSDFS).

7. ALL AREAS OF CONTAMINATION SHALL BE COVERED WITH TARPS OR OTHER METHODS THAT PREVENT STORM WATER FROM COMING IN CONTACT WITH THE MATERIAL. 8. PETROLEUM BASED CONCRETE CURING COMPOUNDS MUST HAVE SPECIAL HANDLING PROCEDURES.

9. IN THE EVENT OF A LARGER RELEASE (25 OR MORE GALLONS) OF PETROLEUM WASTE, CONTRACTOR MUST CONTACT OHIO EPA (AT 1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE (LEPC) WITHIN 30 MINUTES OF A SPILL OF 25 OR MORE GALLONS.

10. OPEN BURNING IN AN UNRESTRICTED AREA IS LIMITED TO SCRAP LUMBER, WOODEN FENCE POSTS, AGRICULTURAL, LAND CLEARING, OR LANDSCAPE WASTES. CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCAL ORDINANCES, CONTACTING FIRE DEPARTMENTS AND OBTAINING PERMITS FOR OPEN BURNING.

11. DUST SUPPRESSANTS SHALL BE USED IN CASES OF EXCESSIVE DUST. OIL MAY NOT BE USED AS A DUST SUPPRESSANT. DUST SUPPRESSANT MUST NOT BE STORED NEAR CATCH BASINS OR OTHER DRAINAGE WAYS. 12. THE NPDES CONSTRUCTION STORM WATER GENERAL PERMIT ONLY AUTHORIZES THE

DISCHARGE OF STORM WATER AND CERTAIN UNCONTAMINATED NON-STORM WATERS. THE DISCHARGE OF NON-STORM WATERS TO WATERS OF THE STATE MAY BE IN VIOLATION OF LOCAL, STATE, AND FEDERAL LAWS OR REGULATIONS. ALL PROCESS WASTEWATERS (EQUIPMENT WASHING, LEACHATE ASSOCIATED WITH ON-SITE WASTE DISPOSAL, AND CONCRETE WASHOUTS) SHALL BE COLLECTED AND DISPOSED OF PROPERLY. 13. WASH OUT OF CEMENT TRUCKS SHOULD OCCUR IN THE DESIGNATED AREA WHERE THE

WASHING CAN COLLECT AND BE DISPOSED OF PROPERLY WHEN THEY HARDEN. 14. FUEL STORAGE TANKS SHOULD BE LOCATED IN DIKED AREAS AWAY FROM DRAINAGE CHANNELS . THE DIKED AREAS SHOULD HOLD A VOLUME AT LEAST 110% OF THE LARGEST

SEDIMENT & EROSION CONTROL NOTES

PROOF TANKS.

I. ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST CONFORM TO THE SPECIFICATIONS OF RAINWATER AND LAND DEVELOPMENT OHIO STANDARDS FOR STORM WATER MANAGEMENT, LAND DEVELOPMENT, URBAN STREAM PROTECTION, CURRENT CD ITEM.

TANK. THE DIKED AREAS ARE NOT NECESSARY IF CONTRACTOR USES SELF - CONTAINED SPILL

2. CONSTRUCTION ACTIVITIES SHALL BE SCHEDULED SUCH THAT A MINIMUM AREA OF THE SITE IS DISTURBED AT A TIME. CONSTRUCTION OPERATION SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE SOIL EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION IN CRITICAL AREAS AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING OPERATIONS. CONTRACTOR SHALL REDUCE EFFECTS OF STORM WATER BY USING AND/OR MAINTAINING GRASSED SWALES, INFILTRATION STRUCTURES, OR WATER DIVERSIONS.

3. SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.

4. CLEANUP WILL BE DONE IN A MANNER TO ENSURE THAT EROSION CONTROL MEASURES ARE NOT DISTURBED.

5. TEMPORARY SOIL STABILIZATION SHALL OCCUR WITHIN 7 DAYS AFTER ROUGH GRADING IF THE AREA WILL REMAIN IDLE LONGER THAN 14 DAYS. ANY DISTURBED AREA THAT IS NOT GOING TO BE WORKED FOR 14 DAYS OR MORE MUST BE SEEDED AND MULCHED BY NOVEMBER 1 OR MUST HAVE A DORMANT SEEDING OR MULCH COVER APPLIED BETWEEN OCTOBER 30 AND MARCH 1.

6. TRENCHES FOR UNDERGROUND UTILITY LINE AND PIPES SHALL BE TEMPORARILY STABILIZED WITHIN Z DAYS IF THEY ARE TO REMAIN INACTIVE FOR <u>14 DAYS</u>. TRENCH DEWATERING DEVICES SHALL DISCHARGE IN A MANNER THAT FILTERS SOIL-LADEN WATER BEFORE DISCHARGING IT TO A RECEIVING DRAINAGE DITCH OR POND. IF SEEDING, MULCHING OR OTHER EROSION AND SEDIMENT CONTROL MEASURES WERE PREVIOUSLY INSTALLED; THESE PROTECTIVE MEASURES SHALL BE REINSTALLED. PIPELINES WITH JOINTS THAT ALLOW A MANUFACTURED LENGTH OF PIPE TO BE PLACED IN THE TRENCH WITH THE PIPE JOINT ASSEMBLED/MADE IN THE TRENCH REQUIRE AN OPEN PIPELINE TRENCH THAT IS ONLY SLIGHTLY LONGER THAN THE LENGTH OF PIPE BEING INSTALLED. THE TOTAL LENGTH OF EXCAVATED TRENCH OPEN AT ANY TIME SHOULD NOT BE GREATER THAN THE TOTAL LENGTH OF PIPELINE/UTILITY THAT CAN BE PLACED IN THE TRENCH AND BACK-FILLED IN ONE WORKING DAY. NO MORE THAN 50 LINEAL FEET OF OPEN TRENCH SHOULD EXIST WHEN PIPELINE/UTILITY LINE INSTALLATION CEASES AT THE END OF THE WORK DAY

7. SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED TO PREVENT SOIL LOSS.

8. ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED WITHIN <u>7 DAYS</u> OF FINAL GRADING. FURTHER, SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETE, AT WHICH TIME TEMPORARY MEASURES WILL BE REMOVED. PERMANENT VEGETATION IS A GROUND COVER DENSE ENOUGH TO COVER 80% OF THE SOIL SURFACE AND MATURE ENOUGH TO SURVIVE WINTER WEATHER CONDITIONS.

9. SILT FENCE TO BE 2' MINIMUM FROM PROPERTY LINES IN AREAS WHERE WORK IS NEAR ADJACENT PROPERTIES.

10. HAUL ROUTES- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP OF ANY MUD, DIRT, OR DEBRIS DEPOSITED ON HAUL ROADS AS A RESULT OF HIS OPERATIONS. SOIL SHALL BE REMOVED FROM ROADS AND PAVED SURFACES AT THE END OF EACH DAY IN SUCH A MANNER THAT DOES NOT CREATE OFF-SITE SEDIMENTATION IN ORDER TO ENSURE SAFETY AND ABATE OFF-SITE SOIL LOSS. COLLECTED SEDIMENTS SHALL BE PLACED IN A STABLE LOCATION ON SITE OR TAKEN OFF-SITE TO A STABLE LOCATION. CONTRACTOR SHALL USE STATE ROUTES (AND SHORTEST DISTANCE NON-STATE ROUTES) FOR PROJECT HAUL ROUTE.

11. FOR DISTURBED AREAS WITHIN 50 FEET OF A STREAM REMAINING DORMANT FOR OVER 14 DAYS, TEMPORARY EROSION CONTROLS SHALL BE APPLIED WITHIN 2 DAYS.

12. FOR DISTURBED AREAS OVER 50 FEET AWAY FROM A STREAM REMAINING DORMANT FOR OVER 14 DAYS, TEMPORARY EROSION CONTROLS SHALL BE APPLIED WITHIN 7 DAYS.

13. FOR DISTURBED AREAS THAT WILL BE LEFT IDLE OVER WINTER, TEMPORARY EROSION CONTROLS SHALL BE APPLIED PRIOR TO ONSET OF WINTER.

14. FOR DISTURBED AREAS WITHIN 50 FEET OF A STREAM AT FINAL GRADE, PERMANENT EROSION CONTROLS SHALL BE APPLIED WITHIN 2 DAYS OF REACHING FINAL GRADE.

15. FOR DISTURBED AREAS REMAINING DORMANT FOR OVER 1 YEAR OR AT FINAL GRADE, PERMANENT EROSION CONTROLS SHALL BE APPLIED WITHIN 7 DAYS.

16. SEDIMENT CONTROL DEVICES SHALL BE IMPLEMENTED FOR ALL AREAS REMAINING DISTURBED FOR OVER 14 DAYS.

17. SEDIMENT CONTROLS SHALL BE INSTALLED/IMPLEMENTED WITHIN 7 DAYS OF GRUBBING ACTIVITIES.

18. THE SEDIMENT STORAGE ZONE OF THE SILT TRAPS AND BASINS SHALL BE CLEANED OUT WHEN THE SILT OCCUPIES 40 PERCENT OF THE SEDIMENT STORAGE ZONE (APPROXIMATELY ONE-HALF OF THE SEDIMENT STORAGE ZONE DEPTH).

19. ALL SILT TRAPS AND SEDIMENTATION BASINS SHALL BE SURROUNDED BY ORANGE CONSTRUCTION FENCING.

INSPECTIONS 1. WEEKLY INSPECTIONS OF BMPS ARE REQUIRED AS WELL AS AN INSPECTION WITHIN 24 HOURS AFTER EVERY RAIN EVENT OF 0.5 INCHES WITHIN A 24 HOUR PERIOD.

- 2. IF THE SITE WILL BE DORMANT FOR A LONG PERIOD, IT'S STABILIZED, AND LESS FREQUENT INSPECTIONS ARE DESIRED, A WAIVER REQUEST SHALL BE SUBMITTED TO OEPA FOR A REDUCTION TO MONTLY INSPECTIONS.
- 3. ONLY "QUALIFIED INSPECTION PERSONNEL" WILL PERFORM THE INSPECTIONS.

CLEANED OUT WITHIN 10 DAYS OF INSPECTION.

- 4. AN INSPECTION CHECKLIST WILL BE COMPLETED AND SIGNED BY THE INSPECTOR AFTER EVERY INSPECTION.
- 5. INSPECTION RECORDS WILL BE KEPT FOR 3 YEARS AFTER TERMINATION OF CONSTRUCTION
- 6. FOR BMPS THAT REQUIRE REPAIR OR MAINTENANCE, NON-SEDIMENT POND BMPS SHALL BE REPAIRED WITHIN 3 DAYS OF INSPECTION AND SEDIMENT PONDS SHALL BE REPAIRED OR
- 7. IN THE CASE THAT A BMP DOES NOT MEET THE INTENDED FUNCTION, A NEW BMP WILL BE INSTALLED WITHIN 10 DAYS OF THE INSPECTION.
- 8. IF ANY BMP REQUIRED FOR INSTALLATION BY THE SWP3 IS MISSING, THE MISSING BMPS SHALL BE INSTALLED WITHIN 10 DAYS OF THE INSPECTION.

-Original ground

- SYNTHETIC TURF

- 4" #57 AGGREGATE

ACTIVITIES.



462 SOUTH LUDLOW ALLEY COLUMBUS, OHIO 43215 614 6212796 MKSKSTUDIOS.COM

client / owner City of Canton project name CENTENNIAL PLAZA project address 301-399 Market Ave N, Canton, OH 44702
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structural engineer
ARUP
77 WATER STREET NEW YORK, NY 10005 p 212.896.3000 ARUP.COM
civil engineer
ATWELL
7100 E PLEASANT VALLEY ROAD
SUITE 220 INDEPENDENCE, OH 44131 p 440.349.2000 ATWELL-GROUP.COM
liahting desian / electrical engineer
TEC STUDIO / TECH INC.
7510 SLATE RIDGE BOULEVARD COLUMBUS, OH 43068 p 614.866.2868 TECSTUDIOINC.COM
water feature
SOUTHERN AQUATICS, INC.
150 HILDEN RD SUITE 305 PONTE VEDRA BEACH, FL 32081 p 904.824.1110 [SAIFOUNTAINS.COM

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CTIONS: Connect pes on sanitary s ctors conforming	ions between pr ewers, may be to ASTM C 923.	ecast manhale sec sealed with resilie	SEE NOTE 4	ARE FOR	
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ARUP
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water feature

SOUTHERN AQUATICS, INC.

PONTE VEDRA BEACH. FL 32081 p 904.824.1110 |SAIFOUNTAINS.COM

150 HILDEN RD

SUITE 305

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Independent of the constraint of the cons	NOTE 1. LIFT HOLES INSIDE THE MANHOLES MUST BE SEALED WITH GROUT. NOTE 2. TOP AND TRANSITION SECTIONS MUST BE ECCENTRIC CONE ONLY. USE FLAT SLAB FOR SHALLOW MANHOLE APPLICATIONS OR SPECIAL CIRCUMSTANCES AS DIRECTED BY THE CITY. NOTE 3. 6" EXTENDED BASE IS STANDARD FOR ALL SANITARY AND STORM MANHOLES. SET MANHOLE BASE ON 6" OF AASHTO M 43 NO. 56, 57, OR 62 CRUSHED STONE SET ON UNDISTURBED EARTH. NOTE 4. PIPE CONNECTIONS INTO THE MANHOLES MUST NOT EXTEND INTO THE MANHOLE MORE THAN 2" AT THE SIDES OF THE PIPE AT THE SPRING-LINE OF SAID PIPE. SANITARY CONNECTIONS SANITARY CONNECTIONS MUST BE OUTSIDE DROP CONNECTIONS. DROP CONNECTIONS MUST BE FABRICATED AND CAST INTEGRALLY WITH THE MANHOLE SECTIONS OR INSTALLED PER CITY STANDARD DWG, 11, OUTSIDE DROP CONNECTION FOR SANITARY MANHOLES. NO INSIDE DROP SPERIITED FOR PRIVATE SEWER CONNECTIONS. INSIDE DROP FOR CITY-OWNED SEWERS ARE SUBJECT TO THE CITY ENGINEER'S APPROVAL. SANITARY PIPE INLETS MUST BE FLUMED OVER THE BENCH, DIRECTING FLOW INTO THE CHANNEL, USING CONCRETE AND/OR CLAY SEWER BRICK AND MORTAR. CAST OPENINGS MUST BE THE OUTSIDE DIAMETER OF THE PIPE PLUS 2 INCHES WITH A BUTYL RUBBER A-LOK, X-CEL GASKET, OR APPROVED EQUAL. CORED OPENINGS MUST BE MACHINE CORED, THE OPENING SHALL BE PER PIPE-TO-MANHOLE CONNECTOR SPECS. USE "KOR-N-SEAL" FLEXIBLE PIPE-TO-MANHOLE CONNECTOR SPECS. USE "KOR-N-SEAL" FLEXIBLE PIPE-TO-MANHOLE CONNECTOR WITH STAINLESS WEDGE ASSEMBLY OR APPROVED EQUAL. CORED OPENINGS MUST TB E MACHINE CORED, THE OPENING SHALL BE PER PIPE-TO-MANHOLE CONNECTOR SPECS. USE "KOR-N-SEAL" FLEXIBLE PIPE-TO-MANHOLE CONNECTOR SPECS. USE "KOR-N-SEAL" FLEXIBLE PIPE-TO-MANHOLE CONNECTOR SPECS. USE "K	NOTE 6. GRADE RINGS FOR NEW MANHOLES CONCRETE, RUBBER COMPOSITE, OF CONCRETE BRICK IS NOT PERMITTED HEIGHT OF GRADE RINGS COLLECTIV PRECAST CONCRETE GRADE RINGS CLASS 'C' CONCRETE AND CONNECT CONCENTRIC RINGS OF 1/2" TO 1" BE SEALANT CON-SEAL OR APPROVED E JOINTS WITH 1/2" NON SHRINK CEME RUBBER COMPOSITE GRADE RINGS I EJIW OR APPROVED EQUAL, AND COL PARALLEL BEADS OF POLY-SEALANT MANUFACTURER RECOMMENDATION GRADE RINGS HEIGHT MUST NOT EX PLACED DIRECTLY UNDER MANHOLE BRICK AND MORTAR RINGS MUST BE ASTM C32-90, OR APPROVED EQUAL ENTRAINED, MORTAR. SEAL OUTSID SHRINK CEMENT PLASTER. USE TWO PARALLEL 3/4" BEADS OF B CON-SEAL OR APPROVED EQUAL, BE DIFFERENT MATERIAL AND BETWEEN MANHOLE FRAME. NOTE 7. FOR BACKFILL MATERIAL AND COMP/ EXCAVATION, IF APPLICABLE, REFER NOTE 8. SANITARY MANHOLES TO BE TESTED ENGINEER'S SPECIFICATION 04-01 (N TEST). DOUBLE RING, 1/2" TO 1" DIA BUTYL RUBBER SEAL, CON-SEAL OR APPROVED EQUAL SEAL OUTSIDE JOINTS WITH 1/2" NON SHRINK CEMENT PLASTER. DOUBLE RING, 1/2" TO 1" DIA BUTYL	AY BE PRECAST CLAY BRICK AND MORTAR. CALY SHALL NOT EXCEED 12". WUST BE REINFORCED ED USING TWO ADS OF BUTYL RUBBER GUAL. SEAL OUTSIDE TO PLASTER. MUST BE "INFRA-RISER" BY NECTED USING TWO ADHESIVE PER A. RUBBER COMPOSITE CEED 3" AND MUST BE FRAME. BELDEN BRICK, FINE GRIND, WITH HIGH STRENGTH, AIR E JOINTS WITH 1/2" NON UTYL RUBBER SEALANT TWEEN GRADE RINGS OF GRADE RINGS AND ACTION, AND ROCK TO CITY STD.DWG. NO. 19. ACCCORDING TO CITY EGATIVE AIR PRESSURE NG 3" MAX. RUBBER COMPOSITE, DOUBLE RING POLY-SEALANT ADHESIVE 12" MAX. TOTAL	ITEMQTY.UNIT604V.F.IF REQUESTED BY TH CONTRACTOR SHALL EXTERIOR OF DESIGN THE PRICE IS PAID PE WATERPROOFED AS CONTINGENCY BID IT APPLY IN THE FIELD A PER MANUFACTURER TOP OF THE EXTEND CASTING.ITEMQTY.UNIT 604604V.F.IF REQUESTED BY TH CONTRACTOR SHALL POLYMER LININGS AS PRICE IS PAID PER VE DIRECTED BY THE EN COSTS FOR LABOR, N FOR SUPPLYING AND BYPASSING EXISTING INSTALLATION AND C AS A CONTINGENCY FAPPLY IN THE FIELD A 5371 BY CARBOLINE C EXISTING MANHOLE COVELFOR EXISTING MANHOLE COVELFOR EXISTING MANHOLE COVELFOR EXISTING MANHOLE COVEL	DESCRIPTION OPTION MH WATERPROOFING, COA E CITY ENGINEER, OR SPECIFIE PROVIDE UNIT PRICE FOR WA IATED MANHOLES. THIS ITEM IS R VERTICAL FOOT OF EACH MA DIRECTED BY THE ENGINEER. M UNLESS SPECIFIED OTHERW A COAL TAR EPOXY TO THE OUT 'S SPECIFICATIONS AND INSTRUE D BASE TO THE BOTTOM OF THE DESCRIPTION OPTION MH, POLYMER LINING EXISTING MH, POLYMER LINING EXISTING MH, POLYMER LINING EXISTING MH, POLYMER LINING INTICAL FOOT OR PER EACH MA GINEER. THE UNIT COST FOR T IATERIALS, EQUIPMENT AND INA INSTALLING THE LININGS INCLU SEWER FLOWS FOR THE DURA JRING TIME AS SPECIFIED. THIS SID ITEM. UNLESS SPECIFIED ON CORROSION RESISTANT POLY DR APPROVED EQUAL) TO THE I PER MANUFACTURER'S SPECIFIE Y FROM THE TOP OF THE BENC CASTING. DLES, PRIOR TO POLYMER LININ LS AS PER LINING MANUFACTU OR AS DIRECTED BY THE CITY I THE CITY'S STAND FOR SANITARY AN SEWERS IS THE OU THE MODIFICATION	"A" AL TAR, A.P.P. ED IN THE PLAN, THE TERPROOFING THE S "CITY OPTIONAL" AND ANHOLE THS OPTION IS A WISE. TSIDE OF THE MANHOLE UCTIONS FROM THE HE MANHOLE COVER "B" G, A.P.P. JINING, A.P.P. ED IN THE PLAN, THE RROSION RESISTANT ITY OPTIONAL" AND THE ANHOLE LINED AS HIS ITEM INCLUDES ALL CIDENTALS REQUIRED JDING THE COST FOR ATION OF THE S OPTION IS INCLUDED OTHERWISE. (MER LINING (PLASITE INSIDE OF THE NEW OR CATIONS AND CH TO THE BOTTOM OF NG APPLICATION, JRERER'S ENGINEER. VARD MANHOLE DARD MANHOLE	NOTES: 1. COVER AND FRAME TO BE CAST OF G A-48 CLASS 35 AND AASHTO M 306. C 2. <u>SANITARY MANHOLE COVER/FRAME</u> -EAST JORDAN 1850 B VENTED COVEF -NEENAH R-1654 FRAME AND VENTED -OR EQUAL APPROVED BY CITY ENGIN <u>STORM MANHOLE COVER/FRAME</u> -EAST JORDAN 1850 M GRATED COVEI -NEENAH R-1654 FRAME AND GRATED -USE THE VENTED COVER WITH CITY IN 3. MACHINE BEARING SURFACES BETWE 4. CONTACT CITY ENGINEER FOR CAD D 5. CASTINGS ARE NOT REQUIRED TO BE 6. ALTERNATE FRAMES, SUITABLE WITH CITY ENGINEER: EAST JORDAN 2015 (10-1/2" M EAST JORDAN 1622 (5" FRAME
CANTON, OHIO DANIEL J. MOEGLIN, P.E., CITY ENGINEER APPROVED BY: CDB, RMB, SLH APPROVED BY: CDB, RMB, SLH CANTON, CANT	OFFICE OF THE CITY ENGINEER	APPROVED DATE: JAN 2012			STANDARD D	RAWING NO. 10	OFFICE OF THE CITY E
	CANTON, OHIO DANIEL L MOEGLIN, P.E., CITY ENGINEER	APPROVED BY: CDB, RMB, SLH			PRECAST	STORM OR	CANTON, OF



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	3.	COMPACTION
		ALL BACKFILL SHALL BE PLACED IN LAYERS NOT TO EXCEED 12-INCHES LOOSE DEPTH AND COMPACTED BY APPROVED MECHANICAL MEANS. JETTING IS NOT APPROVED WITHOUT THE CITY ENGINEER'S APPROVAL. BUCKET COMPACTION MUST BE SUPPLEMENTED WITH VIBRATION OR TAMPING EQUIPMENT AS DIRECTED. ANY MODIFICATIONS TO THESE REQUIREMENTS MUST BE APPROVED BY THE CITY ENGINEER.
	4	SURFACE:
		TRENCHES SHALL BE TOPPED WITH 4" OF ODOT 304 LIMESTONE OR ASPHALT GRINDINGS WITHIN EXISTING STREET PAVEMENTS WHEN THE STREET WILL BE OPENED TO VEHICULAR TRAFFIC PRIOR TO PAVEMENT REPLACEMENT. THE TRENCH TOPPING MATERIAL SHALL BE ROLLED OR OTHERWISE COMPLETED FLUSH WITH THE ADJOINING PAVEMENT.
TED TO		STREET RESTORATION: CONCRETE OR ASPHALT STREET PAVEMENT SHALL BE REPLACED IN ACCORDANCE WITH CITY STD. DWG. NO. 32. BRICK OR ASPHALT-BRICK COMPOSITE STREET PAVEMENT SHALL BE REPLACED IN ACCORDANCE WITH CITY STD. DWG. NO. 31.
		SIDEWALK, CURB, AND DRIVEWAY RESTORATION: DRIVEWAY SURFACES SHALL BE REPLACED IN ACCORDANCE WITH THE CURRENT EDITION OF THE CITY OF CANTON SPECIFICATIONS FOR THE CONSTRUCTION, REPAIR, AND REPLACEMENT OF SIDEWALKS, CURBS, AND DRIVEWAYS, AND CITY STD. DWG. NOS. 28 THRU 33.
		LAWN RESTORATION LAWN SURFACES SHALL BE REPLACED WITH A MINIMUM OF 4" TOPSOIL SEEDED, AND MULCHED. SEED MIX SHALL CONFORM TO ADJOINING LAWN GRASS

12" - NON-RIGID PIPE (PVC, HDPE, CMP, ALUMINUM) 1 ** RIGID PIPE (CONCRETÉ, VITRIFIED CLAY, OR DUCTILE IRON)

6" - NON-RIGID PIPE (PVC, HDPE, CMP, ALUMINUM) 3" - RIGID PIPE (CONCRETE, VITRIFIED CLAY, OR DUCTILE IRON)

- 5. CONSTRUCTION METHODS FOR BEDDING AND BACKFILL SHALL CONFORM WITH ODOT 603, UNLESS STATED OTHERWISE HEREIN.
- 6. ODOT REFERENCES ARE FROM THE CURRENT ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS, ANY DISCREPANCIES SHALL BE SUBJECT TO THE CITY ENGINEER'S DISCRETION.

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TANDARD DRAWING NO. 19 UTILITY TRENCH REQUIREMENTS SHEET 1 OF 2

NOTE	S: (CONTINUED)				
7. PAY LIMITS FOR CITY PROJECTS					
A)	BEDDING AND BACKFILL IS INCLUDED WITH THE COST UNLESS DIRECTED TO BID OTHERWISE.				
B)	PAVEMENT RESTORATION IS INCLUDED WITH THE CO UNLESS A SEPARATE PAY ITEM IS PROVIDED. WHEREE MEASUREMENT OVER THE TRENCH FOR PAVEMENT R SHALL NOT EXCEED THE OUTSIDE DIAMETER (O.D.) OF SET MEASUREMENT DEPENDENT ON DEPTH OF PIPE MEASUREMENTS AT MANHOLE AND CATCH BASIN STR NOT EXCEED THE AREA OF THE BASE OF THE STRUCT OFFSET AREA AROUND THE STRUCTURE'S BASE.				
C)	EXTRA FOUNDATION MATERIAL: THE CONTRACTOR SE FOR OVER-EXCAVATION AND BEDDING FOUNDATION N THE CONTINGENCY BID ITEMS FOR EXTRA FOUNDATION				
	WHEN IN THE OPINION OF THE CITY ENGINEER, SOFT/ MATERIALS ARE ENCOUNTERED WHICH ARE UNSUITAL BEDDING FOUNDATION, SAID MATERIAL SHALL BE REN CONTRACTOR TO THE DEPTH DIRECTED BY THE ENGIN REPLACED WITH SUITABLE MATERIAL.				
	FOR CITY PROJECTS, THE PAYABLE WIDTH OF THE EX MATERIAL SHALL NOT EXCEED THE LESSER OF THE AM MINIMUM OR MAXIMUM TYPICAL BEDDING WIDTH, AS N 1 OF STD. DWG. NO. 19.				
	FOR PRIVATE WORK, ALL COSTS ARE AT THE OWNER				
	EXTRA FOUNDATION MATERIAL, OPTION A, B, C, & D, M ANY COMBINATION AS DIRECTED BY THE CITY ENGINE				
	OPTION A: CRUSHED STONE, AASHTO M 43 NO. 1 AND/				
	OPTION B: CRUSHED STONE, AASHTO M 43 NO. 56, 57,				
	OPTION C: ODOT 703:11, TYPE 1 (304, 411 OR 617 GRA				
	OPTION D: TENSAR GEOGRID T1100, OR APPROVED E				
	EXTRA FOUNDATION MATERIAL, CONTINGENC				
	ITEM QTY. UNIT DESCRIPTION				
	603 C.Y. EXTRA FOUNDATION, OPTION				
	603 C.Y. EXTRA FOUNDATION, OPTION B				
	603 S.F. EXTRA FOUNDATION, OPTION				
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client / owner City of Canton project name
CENTENNIAL PLAZA
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SOUTHERN AQUATICS, INC.
150 HILDEN RD

SUITE 305 PONTE VEDRA BEACH EL 32081 p 904.824.1110 |SAIFOUNTAINS.COM

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