CHATHAM COUNTY PURCHASING & CONTRACTING DEPARTMENT

ADDENDUM NO. <u>1</u> TO <u>18-0098-4</u>

FOR: WILMINGTON ISLAND COMMUNITY CENTER WATER AND SEWER

PLEASE SEE THE FOLLOWING FOR ADDITIONS, CLARIFICATIONS AND/OR CHANGES:

NOTE: This will be a **UNIT PRICE** contract. Also, the County will provide electrical service so the General Contractor will not need an Electrical Permit. The County will coordinate with *D.P. Joyner Electrical* about providing power to the grinder pump station. Contractor must be a Georgia Licensed General Contractor and have a Utilities License.

NOTE:

1. SEE ATTACHED Questions Received (2 pages)

2. REPLACE current Bid Sheets with the attached *REVISED* Bid Sheets (2 pages)

3. REPLACE current Plan Sheets with the attached *REVISED* Plan Sheets (7 sheets)

NOTE: BID OPENING REMAINS: 2PM, TUESDAY, OCTOBER 16, 2018

THE PROPOSER IS RESPONSIBLE FOR MAKING THE NECESSARY CHANGES AND MUST ACKNOWLEDGE RECEIPT OF ADDENDUM.

ROBERT E. MARSHALL SENIOR PROCUREMENT SPECIALIST CHATHAM COUNTY

<u>10/12/18</u> DATE

WILMINGTON ISLAND COMMUNITY BUILDING

PRE-BID QUESTIONS AND ANSWERS

- 1. *Where is the next downstream MH located ? Is it on WI Rd ?* The next downstream manhole is located approximately 100' further north along Wilmington Island Road, just before the residential lots that back up to the school property.
- 2. Plan sheet 5 indicates to coat the receiving MH and one MH downstream per CoS spec. Plan sheet 6 provides CoS detail of receiving MHs which states to coat the receiving MH and the next 2. Please clarify the quantity of downstream MHs. Only the tie-in manhole and one manhole downstream require coating, this was confirmed during permitting.
- 3. We do not see reference to MH for the air release valves on Plan sheets 3 or 4, but assume they are to be in a MH. If correct, are these air release MHs also to be coated per CoS spec ? Yes, shallow manhole required as noted on the detail, however the force main will not be a City maintained line and is not required to be coated.
- 4. Please clarify the note box on sheet 3 regarding the grinder pump station electrical service. Does this mean the building contractor will install the conduit and wire to our panel? Or does it mean the building contractor will provide the proper breaker in the building panel? If yes, to the later, will the building contractor already have a conduit stubbed out? This note has been revised for clarity, see plan sheet. The building contractor will be responsible for running the power to the pump panel, providing and installing the pump panel, and connecting the pump leads to the panel. No electrical work is included in this contract.
- 5. Plan sheet 3 indicates the 4"meter vault and 6" BFP vault next to each other? Are they to be one common vault or 2 separate vaults? Is there sufficient space for the bypass of the meter in regard to the adjacent property line? Separate vaults. We believe there is sufficient room to install per plan and details, however the final dimensions of the enclosures and equipment shall be confirmed prior to installation and any conflicts reported to the County. If required, the enclosures could likely be staggered to provide additional room.
- 6. *Please indicate the existing septic tank on the drawing. And the well.* The septic tank has not been located or surveyed. The note referencing removal of the existing service has been revised to not reference removal all the way to the septic tank. The existing well is shown on the plan approximately 75' behind the building.
- 7. *Is the existing well to be properly abandoned?* No modifications of the existing well are included in this contract.
- 8. Note 5 of the special conditions indicates material is not allowed on site? Where can the pipe, etc... be stored? County has agreed to storage of the several concrete structures and water valves/fittings on-site, but other arrangements need to be made by the contractor for storing and staging of the pipe.

- 9. Note 7 indicates county take care of tapping fees. What about the cost of the meter? Are there any other CoS fees or costs from the CoS we need to address? Correct, contractor shall only be responsible for purchasing the meter from the City, all other City fees to be paid by the County.
- 10. The new 6" fire line is shown on the plan ending north of the transformer. Is it connected to something or capped or stubbed up? Please clarify. The new 6" fire service will connect to a new fire system to be installed in the building, but the exact connection point is not yet known. If still undetermined at the time of installation, service shall be installed as shown and capped for connection at a later date.

Notes and Clarifications from Pre-Bid Meeting:

- 1. The building will be occupied during the construction period beginning Oct. 15th.
- 2 The existing gas main shown on the plans has not been physically located, Contractor shall exercise caution when working in the vicinity of the gas line.
- 3. The 4" and 6" gate valves shown for the water services are required to be installed in manholes. The services connect to a proposed main with tees, so no tapping saddles are required.
- 4. Contractor will be required to obtain a right-of-way permit from Chatham County for the work proposed in the road right-of-way.
- 5. The proposed water main will be a City of Savannah owned and maintained line and shall meet all City requirements for construction, testing and close-out. The grinder pump station and off-site force main will be County owned meeting requirements of the plans and specs.

Plan Revisions from Original Bid Set (revisions are clouded):

- 1. The notes on plan sheet 3 regarding the grinder pump, electrical scope, and existing service removal have been revised as noted in the question section.
- 2. The pump details on plan sheet 6 has been revised with additional information. The pump spec has been revised from 2.0 horsepower down to a 1.7 horsepower requirement. The pump discharge outlet has also been revised from 2" down to 1.25".
- 3. The force main diameter has been revised from 2" HDPE down to 1.25" HDPE (SDR 9, pressure class 200, AWWA C901 per City of Savannah spec for water services).

WILMINGTON ISLAND COMMUNITY BUILDING					
	BID SHEET				
	REV. 10/12/2018			Livit Duine	Tatal Duise
#	Description	Unit	Quantity	Unit Price	Total Price
1	General Conditions and Project Miscellaneous shall include all general and miscellaneous items not listed in specific line items below, including costs such as demolition, mobilization, traffic control, supervision, site safety and security, insurance and all miscellaneous items not included elsewhere in the bid schedule to complete project in accordance with the plans & specifications.	LS	1		
2	Silt Fence: Non-Sensitive, Single Row, incl maintenance	LF	300		
3	Temporary/Permanent Grassing (includes all measures necessary to establish acceptable cover)	LS	1		
4	8" PVC C-900 Water Main (includes fittings and thrust restraints)	LF	263		
5	6" PVC C-900 Water Main (includes fittings and thrust restraints)	LF	230		
6	4" PVC C-900 Water Main (includes fittings and thrust restraints)	LF	248		
7	8" Gate Valve in Manhole	EA	1		
8	6" Gate Valve in Manhole	EA	1		
9	4" Gate Valve in Manhole	EA	1		
10	Fire Department Connection (per City detail)	EA	1		
11	Post Indicator Valve	EA	1		
12	Fire Hydrant (includes 6" shut-off valve and box)	EA	1		
13	Water Sampling Station	EA	1		
14	6" Double Detector Check Valve Fire Backflow In Vault	EA	1		
15	4" Double Check Valve Domestic Backflow In Vault	EA	1		
16	4" Water Meter In Vault	EA	1		
17	Connect To Existing 8" Water Main at Point Provided	EA	1		
18	1.25" HDPE Sewer Force Main (Horz. Direct. Drill)	٤F	1,244		
19	1.25" HDPE Sewer Force Main (Direct Bury)	LF	193		
20	Air Release Valve in Manhole - Sewer	LF	2		
21	Provide Protective Coating for Existing Sanitary Manhole				
	(see spec section 02555)	EA	2		
22	Core Drill & Connect Force Main To Existing Manhole	EA	1		
23	Remove & Replace Gravel Driveway	SY	11		
24	Remove & Replace Asphalt Bike Path	SY	16		

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#	Description	Unit	Quantity	Unit Price	Total Prie
25	Remove & Replace Asphalt Drives and Parking	SY	130		
26	Duplex Grinder Pump Station - Complete, includes wet well, piping, valves, electrical/panel, pumps and sart-up testing as necessary to place into full operation.	LS	1		
		BASE BID TOTAL			
	NAME / TITLE				
	COMPANY				
	ADDRESS				
	PHONE/FAX				
	E-MAIL				



THE CHATHAM COUNTY BOARD OF COMMISSIONERS 124 BULL STREET SUITE 200 SAVANNAH, GEORGIA 31401 PHONE No. (912) 652-7878



WATER DISTRIBUTION AND SANITARY SEWER

WILMINGTON ISLAND COMMUNITY BUILDING 125 WILMINGTON ISLAND ROAD CHATHAM COUNTY, GEORGIA

FOR

JULY 17, 2018

REVISED PER COMMENTS SEPTEMBER 11, 2018 REVISED - ADDENDUM No.1 OCTOBER 10, 2018



HUSSEY GAY BELL

Established 1958

329 COMMERCIAL DRIVE, SAVANNAH, GA 31406 / T:912.354.4626 SAVANNAH • ATLANTA • STATESBORO • CHARLESTON • COLUMBIA • NASHVILLE www.husseygaybell.com



SHEET ND.	DESCRIPTION
1	COVER SHEET, VICINITY MAP AND SCHEDULE OF DRAWINGS
2	CONSTRUCTION NOTES AND LEGEND
3	SITE PLAN AND FORCE MAIN PROFILE
4	OFFSITE PLAN AND FORCE MAIN PROFILE
5	OFFSITE PLAN AND FORCE MAIN PROFILE
6	WATER AND SEWER DETAILS
7	EROSION AND SEDIMENT CONTROL DETAILS

SCHEDULE OF DRAWINGS

CONSTRUCTION NOTES & LEGEND

GENERAL NOTES: . ALL ELEVATIONS ARE BASED ON NAVD 1988 DATUM.

- THE CONTRACTOR SHALL NOT BEGIN CONSTRUCTION UNTIL ALL PERMITS ARE OBTAINED AND A NOTICE TO PROCEED HAS BEEN OBTAINED FROM THE COUNTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION
- ACTIVITIES AND FOR AVOIDING ALL CONFLICTS WITH SAME. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
- 4. UNDERGROUND UTILITIES WERE LOCATED TO THE EXTENT POSSIBLE DURING THE TOPOGRAPHIC SURVEY BASED ON OBSERVABLE ABOVE GROUND EVIDENCE AND FLAGGING BY OTHERS. HOWEVER, THE UTILITIES SHOWN MAY NOT BE THE TYPE INDICATED, MAY NOT BE IN THE LOCATION SHOWN, AND OTHER UNDERGROUND UTILITIES MAY EXIST THAT ARE NOT SHOWN ON THE PLANS.
- 5. THE CONTRACTOR SHALL CLEAR AND GRUB ONLY AS REQUIRED TO COMPLETE THE WORK SHOWN ON THE PLANS. ALL OTHER VEGETATION SHALL REMAIN. ALL UTILITY CONSTRUCTION SHALL BE PERFORMED BY A UTILITY CONTRACTOR LICENSED IN THE STATE OF GEORGIA.
- ALL WORK SHALL CONFORM TO THE PROJECT SPECIFICATIONS. 8. ALL DISTURBED AREAS AND PROPOSED EARTH GRADING NOT TO BE COVERED BY OTHER SURFACES SHALL BE GRASSED BY
- SEEDING, FERTILIZING, MULCHING AND WATERING AS REQUIRED TO OBTAIN, AND MAINTAIN UNTIL FINAL ACCEPTANCE, AN 1. CONTRACTOR SHALL FURNISH AS-BUILT DATA TO THE ENGINEER MEETING THE ACCEPTABLE PERMANENT GRASS COVER. REQUIREMENTS OF THE CITY OF SAVANNAH FOR CLOSE-OUT. THESE 9. ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE STATE SOIL AND WATER CONSERVATION COMMITTEE'S "MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA." ALL SEDIMENT CONTROL FEATURES SHALL BE MAINTAINED ON A **REQUIREMENTS ARE SUMMARIZED AS FOLLOWS:** REGULAR BASIS AND SHALL BE REMOVED BY THE CONTRACTOR UPON ACCEPTANCE OF THE SITE BY THE COUNTY.
- 10. DURING CLEARING OPERATIONS, STUMP HOLES SHALL BE BACKFILLED LEVEL WITH THE ADJACENT GROUND ELEVATIONS IMMEDIATELY UPON REMOVAL OF THE STUMP. THE CLEARING CONTRACTOR SHALL AVOID LEAVING HOLES AND LARGE DEPRESSIONS WHICH WILL COLLECT AND HOLD WATER. 11. AT PROJECT COMPLETION, THE CONTRACTOR SHALL FURNISH AS-BUILT INFORMATION TO THE ENGINEER MEETING MINIMUM
- REQUIREMENTS OF THE CITY OF SAVANNAH FOR WATER AND SEWER IMPROVEMENTS. 12. THE CITY OF SAVANNAH RESERVES THE RIGHT TO ACCESS THE PROPERTY TO INSPECT WATER AND SEWER FACILITIES AT ANY TIME.
- 13. IN THE EVENT OF CONFLICT WITH ANY SPECIFICATIONS SHOWN BY THE ENGINEER, THE CITY OF SAVANNAH ORDINANCES, STANDARDS, SPECIFICATIONS, AND DETAILS SHALL PREVAIL.

- STAKING NOTES: 1. LAYOUT FOR MANHOLES, INLETS, ETC., ARE NOT SHOWN ON THIS PLAN. COORDINATES FOR SUCH STRUCTURES CAN BE PROVIDED TO THE SELECTED CONTRACTOR.
- 2. THE CONTRACTOR SHALL UTILIZE EXISTING BENCHMARKS SHOWN ON THE PLANS TO ESTABLISH VERTICAL CONTROL ON THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THESE BENCHMARKS DURING THE CONSTRUCTION PROJECT AND FOR BEARING ANY EXPENSE RESULTING FROM UNAUTHORIZED REMOVAL OR REPLACEMENT OF BENCHMARKS. WHEN A PERMANENT BENCHMARK IS LOCATED SUCH THAT IT MUST BE REMOVED TO COMPLETE THE PROJECT, THE CONTRACTOR SHALL ESTABLISH SUCH TEMPORARY BENCHMARKS AS HE MAY REQUIRE PRIOR
- TO REMOVING THE PERMANENT BENCHMARK. THE CONTRACTOR SHALL PROVIDE THE LOCATION, IDENTIFICATION, FIELD NOTES, AND ELEVATION OF ANY TEMPORARY BENCHMARK ESTABLISHED TO THE OWNER AND ENGINEER

WATER AND SEWER NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES AND FOR AVOIDING ALL CONFLICTS WITH SAME. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR. 2. ALL WATER DISTRIBUTION MAINS SHALL BE PVC, AWWA C-900 PRESSURE RATED PIPE, PRESSURE CLASS 150, WITH
- DIMENSION RATIO 18 OR LOWER, OR DUCTILE IRON PIPE CLASS 50 IF REQUIRED TO MEET UTILITY CROSSING REQUIREMENTS. ALL PVC WATER MAINS SHALL BE BLUE IN COLOR AND BEAR THE SEAL OF CONFORMANCE TO NSF61. SEE DETAIL SHEET FOR THRUST RESTRAINT REQUIREMENTS.
- 4. ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 3 FEET AND A MAXIMUM COVER OF 4 FEET MEASURED FROM FINISHED GRADE. WHERE THE WATER MAIN CROSSES OTHER UTILITY LINES, THE WATER MAIN SHALL BE INSTALLED 18" (PIPE TO PIPE) BELOW THE OTHER UTILITY LINES IF REQUIRED TO AVOID CONFLICTS AND MAINTAIN COVER. MAINTAIN A MINIMUM HORIZONTAL SEPARATION OF 10 FEET BETWEEN WATER AND SEWER LINES UNLESS OTHERWISE SHOWN.
- 6. A #12 GAUGE INSULATED SINGLE STRAND COPPER TRACING WIRE SHALL BE STRAPPED TO ALL WATER PIPE AND ATTACHED TO VALVES OR OTHER APPURTENANCES. 7. CONTACT THE CITY OF SAVANNAH A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO DIGGING AND PERFORMING TESTS
- (WATER, SANITARY SEWER). FOR THE CITY OF SAVANNAH WATER AND SEWER LINE LOCATIONS, CONTACT THE UTILITIES PROTECTION CENTER (1-800-282-7411) A MINIMUM OF SEVENTY-TWO HOURS PRIOR TO DIGGING. 8. AFTER THE PROJECT HAS BEEN CONSTRUCTED THE CONTRACTOR SHALL FURNISH TO THE ENGINEER AS-BUILT INFORMATION HAVING A COORDINATE SYSTEM BASED UPON THE GEORGIA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH
- AMERICAN DATUM OF 1983 (NAD 83). ELEVATIONS SHOWN SHALL BE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). ALL MEASUREMENTS AND COORDINATES SHOWN SHALL USE THE U.S. SURVEY FOOT DEFINITION. COORDINATES SHALL BE SHOWN ON ALL STRUCTURES, AND AS NOTED IN THE AS-BUILT REQUIREMENTS ON THIS SHEET. 9. SEE DETAIL W44 ON SHEET 7 FOR STANDARD WATER SYSTEM NOTES.

EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

SPECIAL NOTES: 1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

AS-BUILT REQUIREMENTS:

- A. WATER SYSTEM LOCATION AND SIZE OF WATER VALVES, METERS, BACKFLOW PREVENTERS, HYDRANTS, POST INDICATORS, TEES, BENDS AND OTHER WATER SYSTEM FEATURES, TO INCLUDE ELEVATIONS FOR THE TOP OF PIPE AT ALL SUCH FEATURES. FOR WATER MAINS, THE LENGTH, SIZE AND PIPE MATERIAL SHALL BE INDICATED ALONG WITH SPOT ELEVATIONS ON THE TOP OF PIPE. ADDITIONALLY, A DISTANCE TO AN ADJACENT PERMANENT FEATURE SHALL BE PROVIDED FOR ALL VALVES.
- B. SEWER SYSTEM LOCATION OF MANHOLES, CLEAN-OUTS, FORCE MAIN AIR RELEASE OR OTHER TYPE VALVES, FORCE MAIN BENDS, AND OTHER SEWER SYSTEM FEATURES, TO INCLUDE ELEVATIONS FOR MANHOLE TOPS AND INVERTS OF THE CONNECTING PIPES, AND THE TOP OF PIPE AT ALL FORCE MAIN FEATURES. FOR SEWER AND FORCE MAINS, THE LENGTH, SIZE AND PIPE MATERIAL SHALL BE INDICATED ALONG WITH SPOT ELEVATIONS ON THE TOP OF FORCE MAIN PIPE. ADDITIONALLY, A DISTANCE TO AN ADJACENT PERMANENT FEATURE SHALL BE PROVIDED FOR ALL VALVES.

ANY QUESTIONS OR CLARIFICATIONS ON THE ABOVE AS-BUILT INFORMATION THAT IS REQUIRED BY THE CITY SHALL BE ADDRESSED TO CITY STAFF AT THE MANDATORY CITY OF SAVANNAH PRE-CONSTRUCTION MEETING.

PROJECT CONTACT: MR. LEON DAVEENPORT, P.E.

COUNTY ENGINEER PHONE No. (912) 652-7800

SOIL TYPE: Lp - LAKELAND SAND

SITE DATA

TOTAL PROJECT ACREAGE...... 1.10 ACRES DISTURBED AREA...... 0.41 ACRES PIN..... 1-0091-02-002A

FLOOD ZONE NOTE:

IN MY OPINION. IN ACCORDANCE WITH FIRM MAP NO. 13051C0190F. SEPTEMBER 26. 2008. THIS PROPERTY DOES NOT FALL WITHIN THE LIMITS OF THE 100 - YEAR FLOOD PLAIN (ZONE "X").

> REFER TO EROSION AND SEDIMENT CONTROL DETAIL SHEETS FOR DETAILED DRAWINGS FOR ALL STRUCTURAL PRACTICES.

VEGETATIVE METHODS:

- A. A VEGETATIVE COVER SHALL BE ESTABLISHED AND MAINTAINED OVER ALL FINAL GRADING AND OTHER DISTURBED AREAS OF THE SITE. SEE COASTAL PLAIN VEGETATIVE COVERS FOR AN OUTLINE OF THE ESTABLISHMENT OF VEGETATIVE
- COVERS. B. WEEKLY INSPECTION OF THE GRASS COVER SHALL BE PERFORMED TO IDENTIFY AREAS REQUIRING RE-ESTABLISHMENT OF GRASS.
- C. LIME RATE: 1 TO 2 TONS/ACRE. FERTILIZER: 1500 LBS. OF 6-12-12 PER ACRE.

COASTAL PLAIN VEGETATIVE COVERS

MONTH OF PLANTING	TEMPORARY GRASS	RATE	MONTH OF PLANTING	PERMANENT GRASS	RATE
MARCH - JUNE	COMMON BERMUDA (HULLED)	10 Lbs./Ac	MARCH - JUNE	COMMON BERMUDA (HULLED)	10 Lbs./Ac
APRIL -	BROWN TOP MILLET 40 Lbs./Ac	40 lbs /Ac	JULY – AUGUST	COMMON BERMUDA (HULLED)	10 Lbs./Ac
AUGUST				& BROWN TOP MILLET	10 Lbs./Ac
SEPTEMBER -	RYE GRASS 40	40 lbs /45	SEPTEMBER + FEBRUARY	OMMON BERMUDA (UNHULLED) 10 Lbs./Ac
FEBRUARY		4U LDS./AC		& RYE	, 1/2 Bu./Ac

MULCH:

MULCH, IF REQUIRED, SHALL BE UNCHOPPED, UNROTTED, DRY STRAW, HAY, OR WOOD WASTE SHALL BE APPLIED TO A DEPTH OF 2-3 INCHES PROVIDING COMPLETE SOIL COVERAGE. IN AREAS TO BE EVENTUALLY COVERED BY PERENNIAL VEGETATION THE CONTRACTOR SHALL APPLY 20-30 POUNDS OF NITROGEN/AC. IN ADDITION TO THE NORMAL AMOUNT.

MULCHING RATE FOR STRAW SHALL BE 2 TONS/AC. AND FOR HAY 2 1/2 TONS/AC. MULCH MATERIAL SHALL BE RELATIVELY FREE FROM ALL KINDS OF WEEDS AND SHALL BE FREE OF PROHIBITED NOXIOUS WEEDS WHICH ARE: CANADA THISTLE, JOHNSONGRASS AND QUACKGRASS. SPREAD MULCH MECHANICALLY OR UNIFORMLY BY HAND; MULCH ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER MULCH PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY PEG AND TWINE METHOD, MULCH ANCHORING TOOL, NETTING OR LIQUID MULCH BINDERS.



VICINITY MAP SCALE N.T.S.

LEGEND:

	EXISTING	PROPOSED
ASPHALI PAVEMENI		
CONCRETE PAVEMENT	a	a
CONCRETE SIDEWALK		
STORM DRAINAGE PIPE		
STORM DRAINAGE INLET		
SANITARY SEWER PIPE	SAN	
SANITARY SEWER MANHOLE	S	
FORCE MAIN	——— FM ———	
WATER MAIN	EXT'G 10" W	<u> </u>
WATER VALVE	0	
FIRE HYDRANT	¥	
OVERHEAD ELECT. CABLE	-#-OHP-#-	_10
		i j
FINISHED GRADE (EARTH)	, (O [.] O ^b	+ FG225.0
FINISHED GRADE (TOP PAVEMENT)		+ TP224.3
FINISHED GRADE (TOP WALK)		+ TW224.8
SWALE		$\rightarrow \rightarrow \rightarrow \rightarrow \rightarrow$
FENCE LINE	x	X
SOILS		
	С	UC
CONSTRUCTION EXIT	(Co
DUST CONTROL ON DISTURBED AREAS		Du
DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)		Ds2
DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)	[Ds3
TEMPORARY SEDIMENT DOUBLE BARRIE – SILT FENCE, TYPE "SENSITIVE"	r 🤇	Sd1-S
INLET SEDIMENT TRAP		Sd2-F
STORM DRAINAGE OUTLET PROTECTION	(St
LIMITS OF DISTURBANCE		
SILT FENCE PROTECTION (SINGLE)	x -	x
SILT FENCE PROTECTION (DOUBLE)		- x x
TURBIDITY CURTAIN	(Tc





Oct 11, 2018 - 3:11pm Printed By: vsmith













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