CAMBRIDGE REDEVELOPMENT AUTHORITY
GRAND JUNCTION PATH & PEDESTRIAN UMPIRMENTS
ALONG GALILEO GALILEI WAY
CONTRACT NO. 16

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SCALE 1" = 500'
LENGTH OF PROJECT = 741.33 FEET = 0.445 MILES

PREPARED BY:
FAY, SPOFFORD & THORNDIKE
ENGINEERS - PLANNERS - SURVEYORS
5 SMITHFIELD ROAD BRUNSWICK, MA 01915
JUNE 17, 2015

G-1
NOTES:

1. REMOVE EXIST. BACKFLOW PREVENTER, SALVAGE & RETURN TO CAMBRIDGE DEPARTMENT.
2. ABANDON MAINLINE AND FILL WITH GRAVEL.
3. INSTALL NEW BACKFLOW PREVENTER & WATER METER ABOVE GROUND INSIDE INSULATED ENCLOSURE BY LICENSED PLUMBER IN ACCORDANCE WITH 110 CFR 22.22 REQUIREMENTS.
4. ELECTRICAL CONTRACTOR TO VERIFY ALL ACTIVE ZONE WIRES THAT ARE CURRENTLY SERVED BY THE IRRIGATION CONTROLLER PRIOR TO THE RELOCATION OF CONTROLLER. ALL ACTIVE WIRES SHALL BE CONNECTED TO THE NEW CONTROLLER LOCATION.
5. IRRIGATION ELECTRICIAN TO RECONNECT WIRING FROM EXISTING ELECTRIC HANDHELD TO RELOCATED CONTROLLER. ELECTRICAL GROUNDING TO BE PROVIDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
6. IRRIGATION CONTRACTOR TO RUN NEW LOW VOLTAGE WIRE TO RELOCATED SOLENOID VALVE TO SERVE EXISTING 31 SPRAY HEAD ZONE.
7. IRRIGATION ELECTRICIAN TO COORDINATE WITH EVERYONE TO DETERMINE LOCATION OF POWER CONNECTION.
8. IRRIGATION ZONE 3D WILL BE TURNED OFF UNTIL THE CITY WATER DEPARTMENT HAS FIXED WATER LEAK IN GROUNDED GAUGED WIRE METER.
9. IRRIGATION ZONE 4A (FREE BUBBLERS) WILL BE DISCONNECTED.

ABBREVIATIONS:

- PVC: Polyvinyl Chloride Pipe
- CUL: Concrete Utility Line
- WIRE: Wire
- TRENCH: Trench
- SOLENOID: Solenoid Valve
- CONNECTION: Connection
- ELECTRICAL: Electrical
- CONDUIT: Conduit
- SLEEVE: Sleeve

LEGEND:

- EXIST. DATELINE: Existent Date Line
- DTE: Date Time Existent
- WIRE: Wire
- PVC: Polyvinyl Chloride Pipe
- CUL: Concrete Utility Line
- MTR: Meters
- FLOW: Flow
- WIRE: Wire
- TRENCH: Trench
- SOLENOID: Solenoid Valve
- CONNECTION: Connection
- ELECTRICAL: Electrical
- CONDUIT: Conduit
- SLEEVE: Sleeve

EXISTING IRRIGATION SYSTEM PLAN

NEW BACKFLOW PREVENTER/WATER METER

PART PLAN Scale: 1" = 10'

IRRIGATION/ELECTRICAL CONDUITS SLEEVE DETAIL

TRENCH AND WIRE DETAIL

SOLENOID VALVE DETAIL

REFERENCES:

- WATER PLAN AND DETAILS
- CAMBRIDGE REDEVELOPMENT AUTHORITY
- GRAND JUNCTION PATH & PEDESTRIAN IMPROVEMENTS

Drawing by: FAY, SPONDOR & THORNBIRKE

Design by: TATC

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EROSION AND SEDIMENT CONTROL NOTES*

1. PRIOR TO ANY LAND DISTURBANCE ACTIVITY ON THE SITE, THE DEVELOPER SHALL PHYSICALLY MARK LIMITS OF ALL LAND DISTURBANCE ON THE SITE WITH TACK SIGNS, OR GRANITE CONSTRUCTION FENCE, SO THAT WORKERS CAN SEE THE AREAS TO BE PROTECTED. THE PHYSICAL MARKERS SHALL REMAIN IN PLACE UNTIL A CERTIFICATE OF COMPLETION HAS BEEN ISSUED.

2. APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO SOIL DISTURBANCE. MEASURES SHALL BE TAKEN TO CONTROL EROSION WITHIN THE PROJECT AREA. SEDIMENT IN RUNOFF WATER SHALL BE TRAPPED AND RETAINED ON-SITE. ALL WATER OUTFLOWS FROM THE PROJECT SITE OR SURFACE WATERS SHALL BE PROTECTED FROM SEDIMENT.

3. MINIMIZE TOTAL AREA OF DISTURBANCE AND PROTECT NATURAL FEATURES AND SOIL.

4. THE CONTRACTOR SHALL SEQUENCE ALL ACTIVITIES TO MINIMIZE SIMULTANEOUS AREAS OF DISTURBANCE. WASH CLEARING AND GRADING OF THE ENTIRE SITE SHALL BE AVOIDED.

5. MINIMIZE SOIL EROSION AND CONTROL SEDIMENTATION DURING CONSTRUCTION.

6. OVERT UNCONTAMINATED WATER AROUND DISTURBED AREAS.

7. INSTALL AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE CONTRACTOR'S SPECIFICATIONS AND GOOD ENGINEERING PRACTICES ON THE 2012 EPA CONSTRUCTION GENERAL PERMIT.

8. PROJECT AND MAINTAIN ON AND OFF-SITE MATERIAL STORAGE AREAS (OVERDUMP AND STOCKPILES OF DIRT, BORROW AREAS, OR OTHER AREAS USED SOLELY BY THE PERMITTED PROJECT) AS CONSIDERED A PART OF THE PROJECT.

9. COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS INCLUDING WASTE DISPOSAL, SANITARY SEWER AND SEPTIC SYSTEM REGULATIONS, AND AIR QUALITY REQUIREMENTS, INCLUDING DUST CONTROL.

10. SEDIMENT SHALL BE REMOVED ONCE THE VOLUME REACHES 1/4 OF THE HEIGHT OF THE EROSION CONTROL DEVICE. SEDIMENT SHALL BE REMOVED FROM SLT FENCE PRIOR TO REACHING THE LOAD-BEARING CAPACITY OF THE SILT FENCE WHICH MAY BE LOWER THAN 1/4 OF THE FENCE HEIGHT.

11. SEDIMENT FROM SEDIMENT TRAPS OR SEDIMENTATION PONDS SHALL BE REMOVED WHEN Design CAPACITY HAS BEEN REDUCED BY 50 PERCENT.

12. BMP'S TO BE USED FOR INFILTRATION AFTER CONSTRUCTION SHALL NOT BE USED AS BMPs DURING CONSTRUCTION. BMP'S IN CHARGE OF THE BOARD. BMP'S TO BE USED FOR INFILTRATION TECHNOLOGIES. NOT DESIGNED TO MANAGE THE HIGH CONCENTRATIONS OF SEDIMENTS TYPICALLY FOUND IN CONSTRUCTION RUNOFF, AND MUST BE PROTECTED FROM CONSTRUCTION RELATED SEDIMENT LOADINGS.

13. SOL SPOILS MUST BE STABILIZED OR COVERED AT THE END OF EACH WORKDAY. SPOILS SHALL NOT BE GREATER THAN 3 FT. ALL SPOILS SHALL BE SURROUNDED BY SEDIMENT CONTROLS.

14. FOR ACTIVE CONSTRUCTION AREAS SUCH AS BORROW OR STOCKPILE AREAS, ROADWAY IMPROVEMENTS AND AREAS WHICH ARE NOT STABILIZED WITH A PERMANENT SEDIMENT CONTROL SYSTEM OR ARE NOT COMPLETELY COVERED, PERMANENT SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED TO CONTAIN SEDIMENT.

15. A TRACKING PAD OR OTHER APPROVED SEDIMENTATION METHOD SHALL BE CONSTRUCTED AT ALL ENTRANCE/EXIT POINTS OF THE SITE TO REDUCE THE DEBRIS OF SOIL CARRIED ONTO ROADS AND OFF THE SITE.

16. ON THE OUTSIDE OF ROADS, DITCHES SHALL BE STABILIZED IMMEDIATELY WITH ROCK, SOD, OR OTHER NON-ERODIBLE LINES, OR WHERE APPROPRIATE VEGETATIVE MEASURES SUCH AS HYDROSEEDING OR LTE WALKING.

17. PERMANENT SEEDING SHALL BE UNDERTAKEN IN THE SPRING FROM MARCH THROUGH MAY, AND IN THE SUMMER AND EARLY FALL FROM AUGUST TO OCTOBER. DURING THE PERIOD FROM APRIL TO OCTOBER. WHEN SEEDING IS FOUND TO BE TYPICAL OF A SEDIMENTATION CONTROL SYSTEM SHALL BE APPLIED. PERMANENT SEEDING MAY BE UNDERTAKEN DURING THE SUMMER IF PLANTS PROVIDE FOR ADEQUATE MULCHING AND WADING.

18. ALL SLOPES STEEPER THAN 3:1 (H:V, 33.3%), AS WELL AS PERMITTED WELLS, SEWAGE SYSTEMS OR TRAPS, AND ALL OTHER SPOILS AND AREAS OF HIGH CONCENTRATION OF SEDIMENTS TYPICALLY STABILIZED WITH SOD, ROCK, AND SEDIMENT TRAPS.

19. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AFTER PERMANENT SEDIMENT STABILIZATION IS ESTABLISHED IN ALL CONTRIBUTORY DRAINAGE AREAS.

20. ALL EXCESS SEDIMENT AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AFTER THE SITE STABILIZATION, DISTURBED SOIL AREAS RESULTING FROM THE REMOVAL OF SEDIMENT CONTROL MEASURES SHALL BE PERMANENTLY STABILIZED WITHIN 30 DAYS OF REMOVAL.

21. PROPERTY MANAGE ON-SITE CONSTRUCTION AND WASTE MATERIALS.

22. PREVENT OFF-SITE TRAFFIC TRACKING OF SEDIMENTS.

23. DUST SHALL BE CONTROLLED AT THE SITE.

24. ALL PREVIOUSLY DISTURBED LAND SHALL BE STABILIZED BY APPROVED METHODS AFTER 4 DAYS IF LEFT UNSTABILIZED, THIS INCLUDES SPOILS, CONSTRUCTION WASTE, AND OTHER SEDIMENT CONTROL ACTIVITIES RELATED CLEARING.

25. IF WORK IS Halted OVER WINTER MONTHS THE CONTRACTOR SHALL BE RESPONSIBLE FOR STABILIZING THE AREA THROUGH GROUND COVER PRACTICES.

* FROM CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS.

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**CATCH Basin/W/Silt Sack**

**INLET PROTECTION**