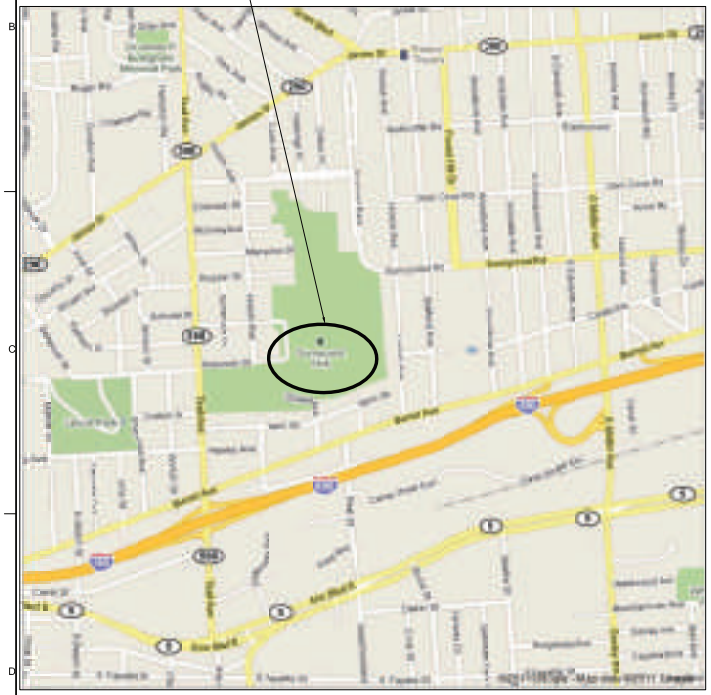
# ONONDAGA COUNTY GREEN INFRASTRUCTURE PROGRAM
# BID REFERENCE #7292
# ISSUED FOR BIDDING AND CONSTRUCTION
# SUNNYCREST ARENA PARKING LOT
# FOR
# COUNTY OF ONONDAGA, NEW YORK
# DEPARTMENT OF WATER
# ENVIRONMENT PROTECTION (OCDWEP)
# OCDWEP ACTING COMMISSIONER: MICHAEL LANNON, P.E.

PROJECT LOCATION:
SUNNYCREST PARK



LOCATION MAP
NOT TO SCALE

DRAINAGE AREA MAP

## DRAWING INDEX

| SHEET NO | DRAWING NO. | DESCRIPTION |
|---|---|---|
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APPROVED:
OCDWEP ACTING COMMISSIONER : MICHAEL LANNON, P.E.
DATE:

COUNTY BID REFERENCE #

ISSUED FOR BIDDING AND CONSTRUCTION

| NO. | DATE | REVISION | BY |
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| DSGN | DM HECKLER | DR DM HECKLER CHK A POTTS APVD | APVD DP WIBLE |

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GENERAL
COVER SHEET
SUNNYCREST ARENA PARKING LOT

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

| | |
|---|---|
| DATE | JULY 2011 |
| PROJ | 381098 |
| DWG | G-1 |
| SHEET | 1 OF 9 |

FILENAME: E36_G001-381098.dwg PLOT DATE: 7/11/2011 7:02 AM

## ABBREVIATIONS

| | |
|---|---|
| CB | CATCH BASIN |
| CL | CENTER LINE |
| COMB | COMBINED SEWER |
| COMM | COMMUNICATION |
| CONC | CONCRETE |
| DIA | DIAMETER |
| DWG | DRAWING |
| EL | ELEVATION |
| ELEC | ELECTRICAL |
| EXST | EXISTING |
| FT | FOOT, FEET |
| FH | FIRE HYDRANT |
| G | NATURAL GAS |
| HDPE | HIGH-DENSITY POLYETHYLENE |
| HORIZ | HORIZONTAL |
| INVT | INVERT |
| LF | LINEAR FOOT, LINEAR FEET |
| MAX | MAXIMUM |
| MH | MANHOLE |
| MIN | MINIMUM |
| No. | NUMBER |
| NTS | NOT TO SCALE |
| NYSDOT | NEW YORK STATE DEPARTMENT OF TRANSPORTATION |
| O/C | ON CENTER |
| PL | PROPERTY LINE |
| PVC | POLYVINYL CHLORIDE |
| R/W | RIGHT-OF-WAY |
| RCP | REINFORCED CONCRETE PIPE |
| R.O.C. | RUN-OF-CRUSHER |
| SAN | SANITARY |
| ST | STORM DRAIN |
| TC | TOP OF CASTING |
| TOC | TOP OF CURB |
| TYP | TYPICAL |
| UNK | UNKNOWN |
| VERT | VERTICAL |
| W | POTABLE WATER |

## LEGEND

- CONCRETE
- EXISTING TO BE REMOVED
- FIRE HYDRANT
- PERFORATED PIPE
- SOLID PIPE
- TREE OR SHRUB
- GAS VALVE
- WATER VALVE
- GUY WIRE
- 500.00 SPOT ELEVATION
- OR OR OR LIGHT POLE
- POWER POLE
- ELECTRIC MANHOLE
- TELEPHONE MANHOLE
- TRAFFIC MANHOLE
- SIGN
- MONITORING WELL
- CATCH BASIN
- SANITARY MANHOLE
- BENCHMARK
- CENTER LINE
- PL PROPERTY LINE
- UE UNDERGROUND ELECTRIC LINE
- OE OVERHEAD ELECTRIC LINE
- UT UNDERGROUND TELEPHONE LINE
- OT OVERHEAD TELEPHONE LINE
- OC OVERHEAD COMMUNICATION LINE
- UG UNDERGROUND NATURAL GAS LINE
- W WATER LINE
- SA SANITARY SEWER
- COMB COMBINED SEWER
- ST STORM SEWER
- 400 CONTOUR LINE

## SURVEY NOTES:

1. THIS TOPOGRAPHIC SURVEY WAS PREPARED BY FISHER ASSOCIATES (ROCHESTER, NY) ON APRIL 14, 2011.
2. HORIZONTAL DATUM: NEW YORK SATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NAD 83/96.
3. VERTICAL DATUM: NAVD 88
   BENCHMARKS AS SHOWN ON THE DRAWINGS.
4. LOCATE, PROTECT, AND MAINTAIN ALL EXISTING CITY OF SYRACUSE SURVEY MONUMENTS AT ALL TIMES DURING CONSTRUCTION. EXISTING SURVEY MONUMENTS SHALL NOT BE DISTURBED OR DAMAGED. INQUIRIES REGARDING SURVEY MONUMENTS SHALL BE DIRECTED TO THE CITY OF SYRACUSE DEPARTMENT OF ENGINEERING, MAPPING DIVISION, AT (315) 448-8200.

## GENERAL CONSTRUCTION NOTES:

1. EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW FINISH GRADE, STRUCTURES, AND SITE FEATURES ARE SHOWN HEAVY-LINED.
2. REINSTALL ALL DISTURBED EXISTING SIGNS, PARKING METERS, PAVEMENT MARKINGS, AND GRANITE CURB, UNLESS OTHERWISE NOTED.
3. COORDINATES AND DIMENSIONS SHOWN FOR ROADWAY IMPROVEMENTS ARE TO FACE OF CURB OR EDGE OF PAVEMENT.
4. STAGING AREA SHALL BE FOR CONTRACTOR'S EMPLOYEE PARKING, CONTRACTOR'S TRAILERS AND ON-SITE STORAGE OF MATERIALS.
5. PROVIDE TEMPORARY FENCING AS NECESSARY TO MAINTAIN SECURITY AT ALL TIMES.
6. ELEVATIONS GIVEN ARE TO FINISH GRADE UNLESS OTHERWISE SHOWN.
7. SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
8. UNLESS SHOWN ON THE LANDSCAPING PLANS, ALL DISTURBED AREAS NOT RECEIVING A HARD SURFACE SHALL BE COVERED WITH GRASS.
9. PROVIDE EROSION AND SEDIMENT CONTROL MEASURES WHERE AND WHEN APPROPRIATE AS PER THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (AUGUST 2005, OR LATEST EDITION). PROTECT EXISTING SITE FEATURES UNLESS OTHERWISE NOTED. CONSULT ENGINEER PRIOR TO INFILTRATION BED INSTALLATION.
10. CONTRACTOR SHALL TAKE ALL OTHER MEASURES TO POSITIVELY PRECLUDE EROSION MATERIALS FROM LEAVING THE SITE. CONTRACTOR TO SUBMIT EROSION CONTROL PLAN.
11. EROSION CONTROLS MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE CONTROLS.
12. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION CONTROLS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST BE STABILIZED IMMEDIATELY.
13. UNTIL THE SITE IS STABILIZED, ALL EROSION CONTROLS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION CONTROLS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, RE-GRADING, RE-SEEDING, RE-MULCHING AND RE-NETTING, MUST BE PERFORMED IMMEDIATELY. IF EROSION CONTROLS FAIL TO PERFORM AS EXPECTED, REPLACEMENT CONTROLS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
14. PROTECT INFILTRATION BED SUBGRADE FROM SEDIMENT DEPOSITION AND/OR COMPACTION DURING CONSTRUCTION. DO NOT ALLOW CONSTRUCTION VEHICLES TO TREAD ON THE INFILTRATION BED SUBGRADE.
15. CONTRACTOR SHALL FOLLOW INFILTRATION BED AND DRAINAGE CONTROL REQUIREMENTS AS SPECIFIED BY ENGINEER.
16. NOTIFY DIG SAFELY NEW YORK AT LEAST 72 HOURS PRIOR TO CONSTRUCTION.
17. IMMEDIATELY FOLLOWING CONSTRUCTION, RETURN ALL EXISTING IMPROVEMENTS TO PRE-CONSTRUCTION CONDITIONS.
18. AGGREGATE FOR STORMWATER TRENCHES SHALL BE CLEAN-WASHED PRIOR TO PLACEMENT.
19. MAINTAIN LOOSE AND UNDISTURBED STORMWATER INFILTRATION TRENCH SUBGRADE. SCARIFY TOP 3 INCHES. DO NOT ALLOW CONSTRUCTION EQUIPMENT ON TRENCH BOTTOM SURFACE.
20. VERIFY ALL EXISTING UTILITIES AND OTHER IMPROVEMENTS PRIOR TO START OF WORK AND IMMEDIATELY NOTIFY ENGINEER OF POTENTIAL CONFLICTS WITH PROPOSED WORK.
21. PROTECT EXISTING TREES DURING CONSTRUCTION.
22. UNLESS OTHERWISE NOTED, EXISTING GRANITE CURBING IS TO REMOVED AND REUSED TO THE NEAREST JOINT FROM THE DISTURBED AREA. EXISTING GRANITE CURB THAT IS NOT REUSED SHALL BE RETURNED. TO THE CITY OF SYRACUSE.
23. WHEN ENCOUNTERED WITHIN THE REQUIRED STORMWATER FACILITY EXCAVATION, CONTRACTOR SHALL TAPE WRAP AND SLEEVE EXISTING UTILITIES IN 14-INCH PVC D-1785 SCHEDULE 80 WITH MOLDED PIPE SLEEVE END SEALS. EXTEND TAPE WRAP AND SLEEVE 12 INCHES BEYOND BOTH ENDS OF STORMWATER FACILITY.
24. WHERE DISTURBED DURING CONSTRUCTION, ALL EXISTING MANHOLE AND CATCH BASIN FRAMES AND COVERS SHALL BE REINSTALLED UPON A MINIMUM OF 2 COURSES OF PRECAST GRADE RINGS. THIS WORK SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE.
25. INSTALL TWO-PIECE HDPE ANTI-SEEP COLLAR BY LANE ENTERPRISES, OR APPROVED EQUAL. INSTALL COLLAR ON THE INDICATED SOLID HDPE PIPES APPROXIMATELY 1' FROM EDGE OF THE INFILTRATION BED/TREE TRENCH.
26. INSTALL INLET FILTER INSERTS IN ALL CATCH BASINS AND CURB INLETS WITHN THE PROJECT LIMITS.
27. CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN FOR VEHICULAR AND PEDESTRIAN TRAFFIC IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD). TRAFFIC CONTROL PLAN SHALL BE APPROVED BY THE CITY OF SYRACUSE PRIOR TO THE COMMENCEMENT OF ALL CONSTRUCTION ACTIVITIES. ALL TRAFFIC CONTROL DEVICES SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED FOR THE DURATION OF THE WORK.

## SECTION / DETAIL DESIGNATIONS

ON DRAWING WHERE SECTION VIEW, OR DETAIL IS TAKEN:

PROFILE, SECTION (LETTER) OR DETAIL (NUMBER) DESIGNATION — A / C-1 — DRAWING NUMBER WHERE PROFILE, SECTION (LETTER) OR DETAIL (NUMBER) IS SHOWN

DRAWING NUMBER WHERE PROFILE, SECTION (LETTER) OR DETAIL (NUMBER) IS FIRST REFERENCED

A / C-X — PROFILE / SECTION — SCALE — ON DRAWING WHERE SECTION IS SHOWN

1 / C-X — DETAIL — SCALE — ON DRAWING WHERE DETAIL IS SHOWN

DRAWING TITLE — SCALE — ON DRAWING WHERE ONLY A TITLE IS REQUIRED WITH NO REFERENCE (e.g. PLANS, ELEVATIONS)

A / C-1 — SECTION CALLOUT WHERE SECTION CUT IS LESS THAN OR EQUAL TO 3"

B / C-1 — B / C-1 — SECTION CALLOUT WHERE SECTION CUT IS GREATER THAN 3"

1 — KEY NOTE

N — NORTH ARROW

## DRAWING NUMBER DESIGNATIONS

C - 4 — DRAWING DISCIPLINE — DRAWING NUMBER

## DISCIPLINE LIST:

| | |
|---|---|
| C | CIVIL |
| G | GENERAL |
| L | LANDSCAPING |

## GENERAL NOTES:

1. THIS IS A STANDARD LEGEND SHEET. THEREFORE, NOT ALL OF THE INFORMATION SHOWN MAY BE USED ON THIS PROJECT.
2. CONTACT THE ENGINEER FOR ABBRAVIATIONS USED BUT NOT SHOWN ON THIS DRAWING.

| NO. | DATE | REVISION | BY | APVD |
|---|---|---|---|---|
| DSGN | DM HECKLER | DR DM HECKLER CHK A POTTS APVD | | DP WIBLE |

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GENERAL
# ABBREVIATIONS, LEGEND, AND NOTES

ISSUED FOR BIDDING AND CONSTRUCTION

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

| | |
|---|---|
| DATE | JULY 2011 |
| PROJ | 381098 |
| DWG | G-2 |
| SHEET | 2 OF 9 |

FILENAME: E36_G002-381098.dwg PLOT DATE: 7/11/2011 7:09 AM

SURFACE COVER LEGEND

- PAVEMENT REMOVAL AND POROUS ASPHALT WITH INFILTRATION TRENCH
- PAVEMENT REMOVAL AND LAWN OR TREE AREA
- PAVEMENT REMOVAL AND STANDARD PAVEMENT REPLACEMENT
- MILL AND PAVE

CLEANOUT, SEE DETAIL 2/C-6

30.00'

REMOVE EXST ASPHALT PAVEMENT AND INSTALL NEW POROUS ASPHALT PAVEMENT WITH INFILTRATION TRENCH, BOTTOM EL 494.40 SEE DETAIL 2/C-4

SAWCUT EXST PAVEMENT (TYP)

8" PERF HDPE PIPE 350 LF INVT EL 494.40

60.00' x 8.00' TREE AREA REMOVE EXST ASPHALT PAVEMENT AND AGGREGATE BASE. BACKFILL WITH STRUCTURAL FILL. SEE DWG L-1

CONCRETE CURB, SEE DETAIL 7/C-4

RESTORE ALL DISTURBED PAVEMENT MARKINGS IN KIND AND IN COMPLIANCE WITH THE STANDARDS OF NYSDOT AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)

SAWCUT EXST PAVEMENT (TYP)

BENCHMARK: CHISELED "O" IN TOP OF EAST FACE OF LIGHT POLE CONCRETE BASE EL 505.13

48" DIA STORM CB, SEE DETAIL 8/C-4
TC EL 502.40
INVT (SE) = 494.40, 8" PERF HDPE
INVT (W) = 494.40, 8" PERF HDPE
INVT (N) = 494.40, 8" HDPE
N 1114851.44
E 944533.58

EXST GRANITE CURB TO BE REMOVED AND RE-SET AS NECESSARY AND IN ACCORDANCE WITH CITY OF SYRACUSE STANDARDS (TYPICAL)

48" DIA STORM CB, SEE DETAIL 8/C-4
TC EL 502.40
INVT (SE) = 494.40, 8" PERF HDPE
INVT (E) = 494.40, 8" PERF HDPE
INVT (N) = 494.40, 8" HDPE
N 1114847.57
E 944510.69

WATERSTOP (TYPICAL), SEE DETAIL 3/C-4

48" DIA STORM MH, SEE DETAIL 8/C-4
TC EL 501.60
INVT IN (E) = 494.40, 24" SOLID HDPE
INVT OUT (NW) = 494.40, 8" PERF HDPE
INVT OUT (NE) = 494.40, 8" PERF HDPE
N 1114796.22
E 944553.58

60" DIA STORM CB, SEE DETAIL 8/C-4
TC EL 501.25
INVT IN (N) = 495.92, 24" CIP
INVT IN (SW) = 497.83, 6" CIP
INVT OUT (W) = 494.45, 24" SOLID HDPE
N 1114796.61
E 944570.74

RELOCATE PORTABLE BLEACHERS AS DIRECTED BY CITY PERSONNEL

REMOVE EXST CB

OVERFLOW STRUCTURE, SEE DETAIL 3/C-5
TC EL 501.70
INVT IN (N) = 494.40, 8" PERF HDPE
INVT IN (E) = 494.40, 8" PERF HDPE
INVT OUT (S) = 494.40 , 12" SOLID HDPE
WEIR AT INVT EL 501.00
N 1114796.76
E 944539.46

24" SOLID HDPE, 13 LF @ 0.38% SEE DETAILS 1/C-4 1/C-5

ANTI-SEEP COLLAR (TYPICAL)

SAWCUT EXST PAVEMENT (TYP)

PLUG AND ABANDON EXST 24" CIP ST

12" SOLID HDPE, 24 LF @ 0.63% SEE DETAILS 1/C-4 1/C-5

CONNECT NEW 12" SOLID HDPE TO EXST 24" RCP AT INVT EL 494.25 SEE DETAIL 5/C-6

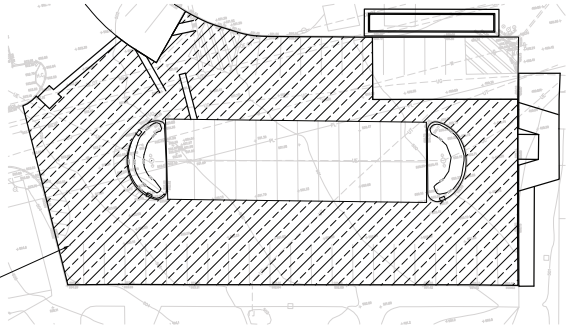
48" DIA STORM MH, SEE DETAIL 8/C-4
TC EL 502.50
INV T OUT (NE) = 495.00, 8" SOLID HDPE
N 1114775.60
E 944495.52

6" SOLID HDPE, 48 LF @ 1.25% SEE DETAILS 1/C-4 1/C-5

MATCHLINE SEE DRAWING C-2

## PARKING LOT PLAN - NORTH
1" = 10'-0"

MILL AND PAVE:
REMOVE 2" MIN OF EXISTING PAVEMENT, RESTORE PARKING LOT TO EXISTING GRADE WITH TACK COAT AND 2" MIN NYSDOT ASPHALT CONCRETE TOP COURSE, TYPE 7. RESTORE ALL DISTURBED PAVEMENT MARKINGS IN KIND AND IN COMPLIANCE WITH THE STANDARDS OF NYSDOT AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)



## PARKING LOT MILL AND PAVE PLAN
1" = 30'-0"

CONCRETE CURB, SEE DETAIL 7/C-4

60.00' x 8.00' TREE AREA REMOVE EXST ASPHALT PAVEMENT AND AGGREGATE BASE. BACKFILL WITH STRUCTURAL FILL. SEE DWG L-1

REMOVE EXST ASPHALT PAVEMENT AND AGGREGATE BASE. BACKFILL WITH STRUCTURAL FILL. RESTORE TO EXST GRADE WITH 6" TOPSOIL, SEED AND MULCH

REMOVE EXST ASPHALT PAVEMENT AND INSTALL NEW POROUS ASPHALT PAVEMENT WITH INFILTRATION TRENCH, BOTTOM EL 495.50 SEE DETAIL 2/C-4

SAWCUT EXST PAVEMENT (TYP)

EXST 12" RCP ST

EXST GRANITE CURB TO BE REMOVED AND RE-SET AS NECESSARY AND IN ACCORDANCE WITH CITY OF SYRACUSE STANDARDS (TYPICAL)

RESTORE ALL DISTURBED PAVEMENT MARKINGS IN KIND AND IN COMPLIANCE WITH THE STANDARDS OF NYSDOT AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)

WATERSTOP (TYPICAL), SEE DETAIL 3/C-4

MILL AND PAVE SEE ABOVE

B C-3

70.00'

30.00'

17.50'

20.00'

8" PERF HDPE PIPE 165 LF INVT EL 494.40

SAWCUT EXST PAVEMENT (TYP)

CLEANOUT, SEE DETAIL 2/C-6

48" DIA STORM MH, SEE DETAIL 8/C-4
TC EL 499.33
INVT (W) = 494.40, 8" PERF HDPE
INVT (N) = 494.40, 8" PERF HDPE
INVT (NE) = 494.40, 8" PERF HDPE
N 1114738.92
E 944701.09

OVERFLOW STRUCTURE, SEE DETAIL 3/C-5
TC EL 499.00
INVT IN (SW) = 494.40, 8" PERF HDPE
INVT OUT (NE) = 495.55+/- , EXST 12" RCP
WEIR AT INVT EL 498.00
N 1114758.17
E 944719.84

## PARKING LOT PLAN NORTH

CH2M HILL
430 E. GENESEE STREET
SUITE 400
SYRACUSE, NY 13202

CIVIL

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

| | |
|---|---|
| DATE | JULY 2011 |
| PROJ | 381098 |
| DWG | C-1 |
| SHEET | 3 OF 9 |

ISSUED FOR BIDDING AND CONSTRUCTION

| NO. | DATE | DR | REVISION | CHK | BY | APVD |
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| DSGN | DM HECKLER | DM HECKLER | A POTTS | APVD | DP WIBLE | |

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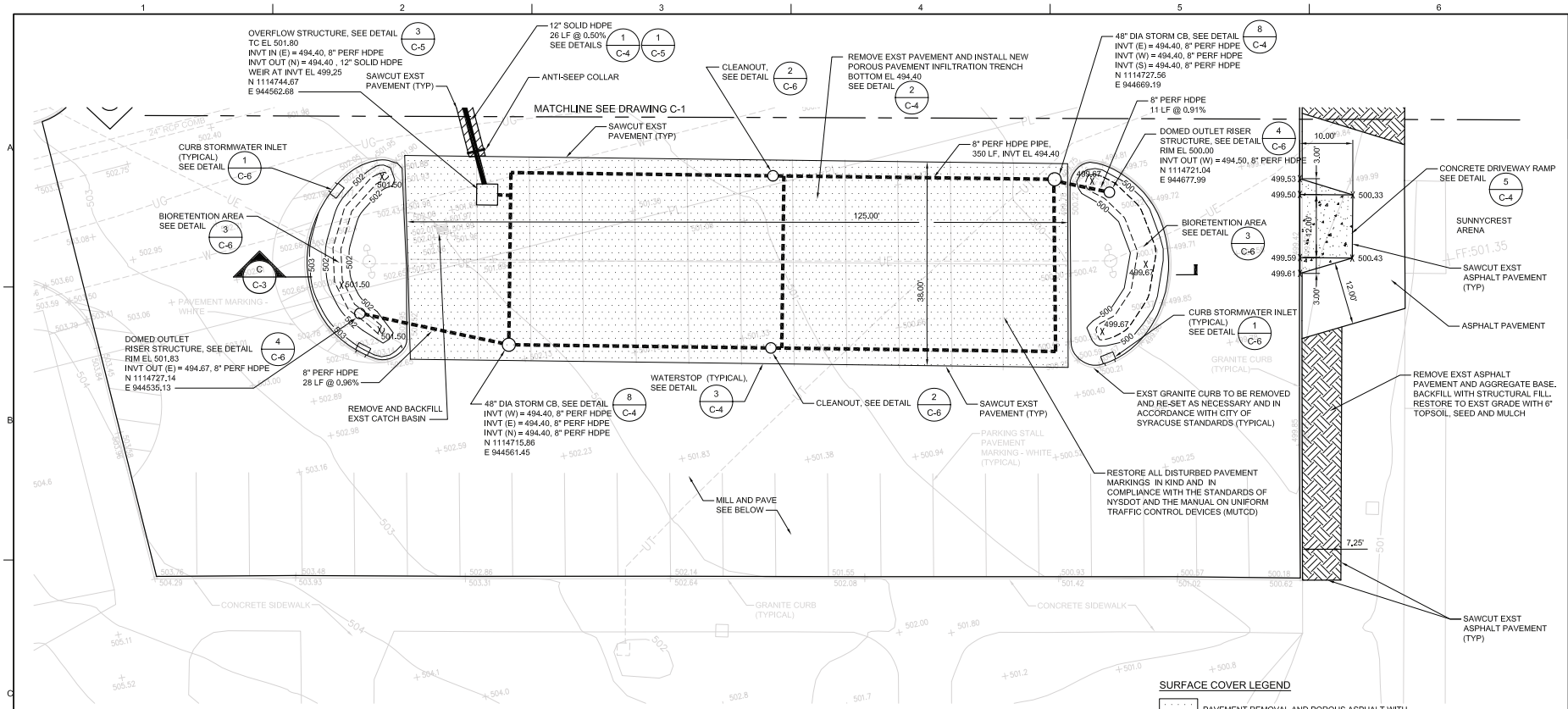
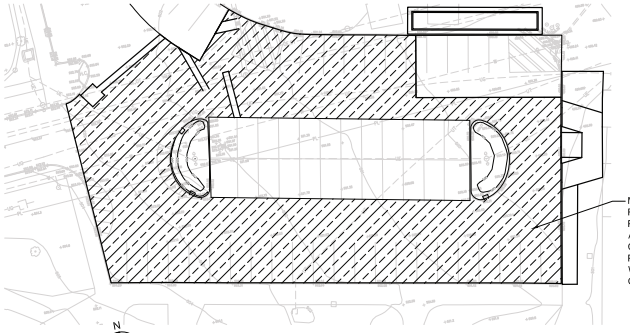



## PARKING LOT PLAN

1" = 10'-0"



MILL AND PAVE:
REMOVE 2" MIN OF EXISTING PAVEMENT. RESTORE PARKING LOT TO EXISTING GRADE WITH TACK COAT AND 2" MIN NYSDOT ASPHALT CONCRETE TOP COURSE, TYPE 7. RESTORE ALL DISTURBED PAVEMENT MARKINGS IN KIND AND IN COMPLIANCE WITH THE STANDARDS OF NYSDOT AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)

## PARKING LOT MILL AND PAVE PLAN

1" = 30'-0"

SURFACE COVER LEGEND

- PAVEMENT REMOVAL AND POROUS ASPHALT WITH INFILTRATION TRENCH
- PAVEMENT REMOVAL AND LAWN OR TREE AREA
- PAVEMENT REMOVAL AND STANDARD PAVEMENT REPLACEMENT
- PAVEMENT REMOVAL AND CONCRETE DRIVEWAY
- MILL AND PAVE

| NO. | DATE | REVISION | BY | CHK |
|---|---|---|---|---|
| DSGN | DM HECKLER | DR | DM HECKLER | CHK | A POTTS | APVD | DP WIBLE |

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SYRACUSE, NY 13202

CH2MHILL

CIVIL

PARKING LOT PLAN
SOUTH

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

| | |
|---|---|
| DATE | JULY 2011 |
| PROJ | 381098 |
| DWG | C-2 |
| SHEET | 4 OF 9 |

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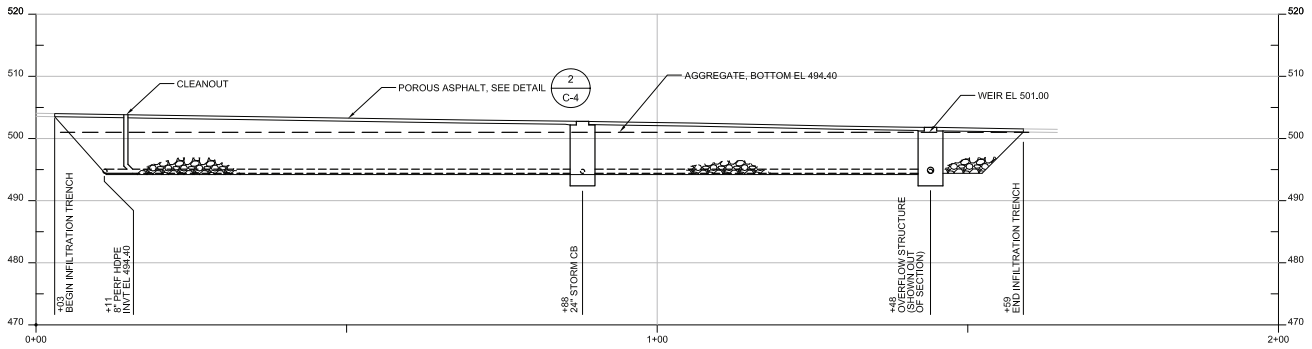
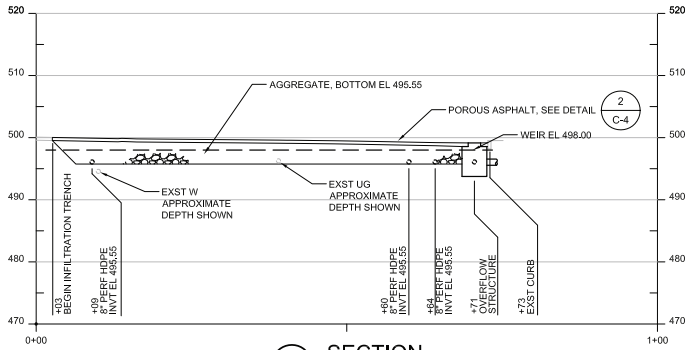
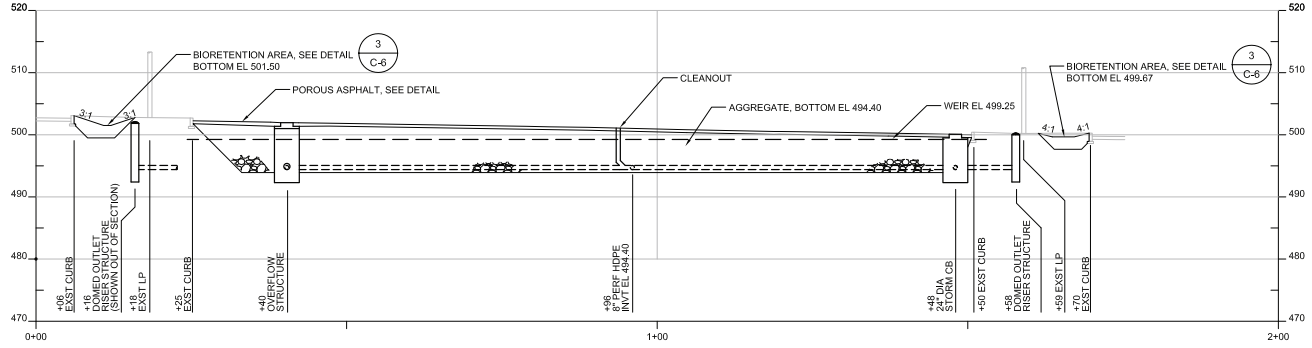



A SECTION
1" = 10'-0"
C-1




B SECTION
1" = 10'-0"
C-1




C SECTION
1" = 10'-0"
C-2

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CH2MHILL

CIVIL
SECTIONS

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|---|---|---|---|---|
| DSGN | DM HECKLER | | | DP WIBLE |
| DR | DM HECKLER | | A POTTS | APVD |
| CHK | | | | |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

| | |
|---|---|
| DATE | JULY 2011 |
| PROJ | 381098 |
| DWG | C-3 |
| SHEET | 5 OF 9 |

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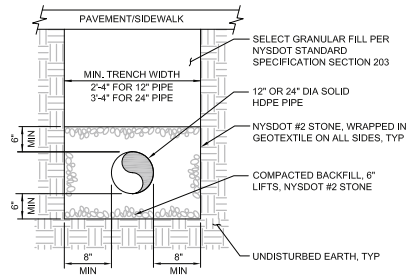
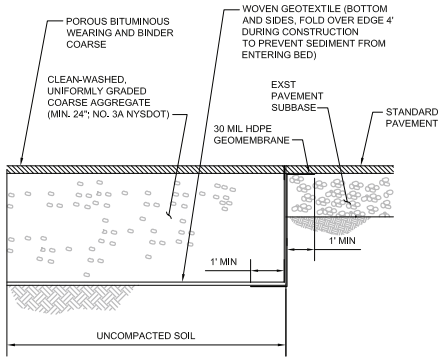



NOTE:
FIRST TWO LIFTS - SHOVEL TAMPED
REMAINING LIFTS - USE PNEUMATIC TAMPER

## 1 / C-4 SOLID HDPE PIPE BEDDING (NOT IN INFILTRATION TRENCH)

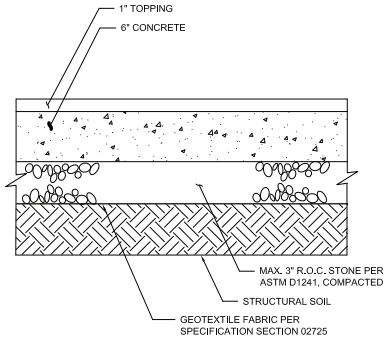
NTS




NOTE: INSTALL 30 MIL HDPE GEOMEMBRANE BETWEEN INFILTRATION AREAS AND ADJACENT PAVEMENT SUBBASE; EXTEND MIN 12" ALONG BOTTOM OF INFILTRATION BED, BELOW GEOTEXTILE

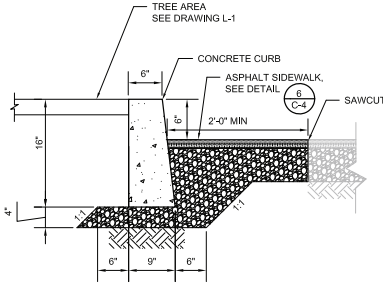
## 3 / C-4 WATERSTOP BETWEEN INFILTRATION TRENCH AND ADJACENT PAVEMENT SUBBASE

NTS




## 5 / C-4 CONCRETE DRIVEWAY

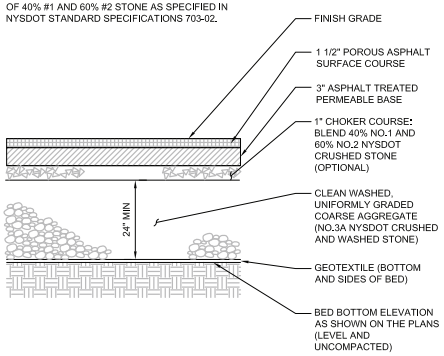
NTS




## 7 / C-4 CONCRETE CURB

NTS

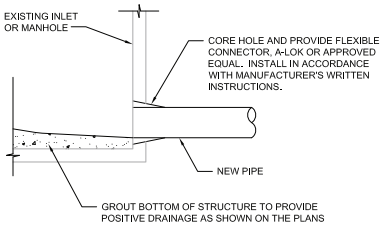
NOTE: AS REQUIRED, INSTALL 1" OF CHOKER COURSE ABOVE NYSDOT #3A. CHOKER COURSE SHALL BE UNIFORMLY GRADED, CRUSHED BLEND OF 40% #1 AND 60% #2 STONE AS SPECIFIED IN NYSDOT STANDARD SPECIFICATIONS 703-02.




NOTES:
1. CONTRACTOR SHALL FOLLOW CONTROL REQUIREMENTS AS DESCRIBED IN WRITTEN TECHNICAL SPECIFICATIONS AND AS DIRECTED BY ENGINEER.
2. PLACEMENT OF CLEAN AGGREGATE FOR INFILTRATION BED TO BE APPROVED BY ENGINEER.

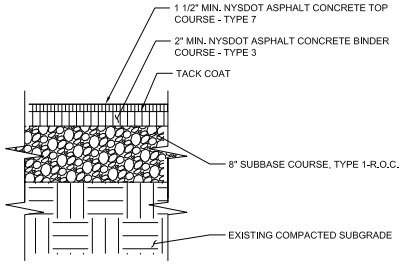
## 2 / C-4 TYPICAL POROUS ASPHALT BED SECTION

NTS



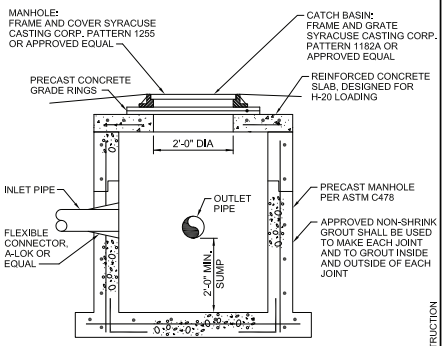

## 4 / C-4 NEW PIPE CONNECTION TO EXISTING MANHOLE OR INLET

NTS




## 6 / C-4 ASPHALT SIDEWALK

NTS




## 8 / C-4 STORM MANHOLE OR CATCH BASIN

NTS

ISSUED FOR BIDDING AND CONSTRUCTION

| NO | DATE | DESCRIPTION | DR | CHK | APVD | BY | APVD |
|---|---|---|---|---|---|---|---|
| | | REVISION | DM HECKLER | CM O'REILLY | A POTTS | APVR | DP WIBLE |
| NO. | DATE | | DSGN | | | N | |

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SUITE 400
SYRACUSE, NY 13202

CH2MHILL

CIVIL
DETAILS
1 OF 3

VERIFY SCALE
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0 1"

| | |
|---|---|
| DATE | JULY 2011 |
| PROJ | 381098 |
| DWG | C-4 |
| SHEET | 6 OF 9 |

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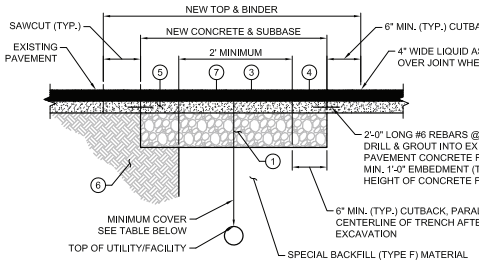



PRIVATE UTILITY STREET CUT REPAIR:

1. WHEN 30% OR MORE OF THE PAVEMENT IS EXCAVATED BY PRIVATE UTILITY WORK, THE CITY, AT ITS DISCRETION, MAY REQUIRE RECONSTRUCTION FROM THE CENTER LINE TO THE EDGE/CURB OF THE ENTIRE SECTION.
2. WHEN 60% OR MORE OF THE PAVEMENT LANE AREA IS EXCAVATED BY PRIVATE UTILITY THE ENTIRE AREA FROM THE CENTER LINE OF THE PAVEMENT TO THE CURB MUST BE RECONSTRUCTED.
3. IF ANY PAVEMENT DISTURBANCE OCCURS WITHIN 2 FEET OF THE EDGE/CURB, PAVEMENT RECONSTRUCTION MUST BE COMPLETED TO THE EDGE/CURB.
4. IN AREAS WHERE TRENCH WIDTH VARIES THE PERCENTAGES SHALL BE DETERMINED PER 100 LINEAR FEET ALONG CENTER LINE OF THE STREET. IN INTERSECTIONS THE AREA WILL BE PER QUADRANT OF THE INTERSECTION.
5. EXISTING PAVEMENT IS TO BE SAWCUT FULL DEPTH TO OBTAIN A STRAIGHT AND NEAT EDGE FOR PAVING. SAWCUT IS TO BE MADE AFTER BACKFILLING THE TRENCH TO THE BOTTOM OF NEW PAVEMENT SECTION.

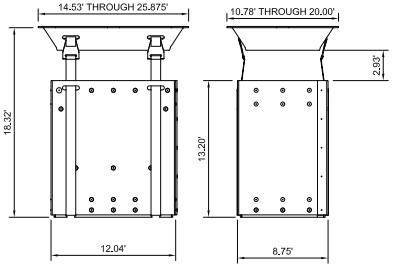
| MINIMUM COVER: | |
|---|---|
| 3'-0" | GAS, ELECTRIC, CABLE, TV, TELECOMMUNICATIONS |
| 5'-0" | WATER |
| 3'+ AS DIRECTED BY CITY'S ENGINEER | ALL OTHERS |

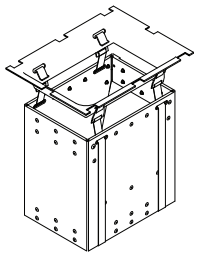
| DRAWING KEY | DESCRIPTION |
|---|---|
| 1 | SUBBASE COURSE, TYPE "1" RUN-OF-CRUSHER (12") |
| 2 | ASPHALT CONCRETE - TYPE 3 BINDER COURSE (ONE - 1-1/2" LIFT) |
| 4 | ASPHALT CONCRETE - TYPE 7FM TOP COURSE (ONE - 1-1/2" LIFT) |
| 5 | FIBER-REINFORCED PORTLAND CEMENT CONCRETE - 3,500 PSI (8") |
| 6 | COMPACTED SUBGRADE |
| 7 | ASPHALT TACK COAT |

NOTES:

1. REFER TO CITY OF SYRACUSE STANDARD SPECIFICATIONS OR DETAILS. THE MINIMUM THICKNESS OF EACH LAYER OF BINDER, TOP, SUBBASE AND CONCRETE BASE SHALL MATCH THOSE SHOWN ON STANDARD DETAILS OR MATCH EXISTING WHERE EXISTING CONDITIONS EXCEED MINIMUMS.
2. IN NO CASE SHALL THE TOP OF CONCRETE BASE BE HIGHER THAN THAT OF THE SURROUNDING EXISTING CONCRETE.
3. IF PAVEMENT MARKINGS OR SIGNAL LOOPS ARE DISTURBED OR DESTROYED THEY SHALL BE REPLACED IN ACCORDANCE WITH CITY OF SYRACUSE STANDARDS.
4. MATCH EXISTING PAVEMENT SLOPE.
5. IF, IN THE OPINION OF THE CONTRACTOR, THE EXISTING CONCRETE FOUNDATION IS IN POOR CONDITION, THE ENGINEER SHALL BE CONTACTED FOR PRIOR APPROVAL TO ELIMINATE DOWELS.

## 1 / C-5 TYPICAL PIPE TRENCHING / ROAD RESTORATION DETAIL



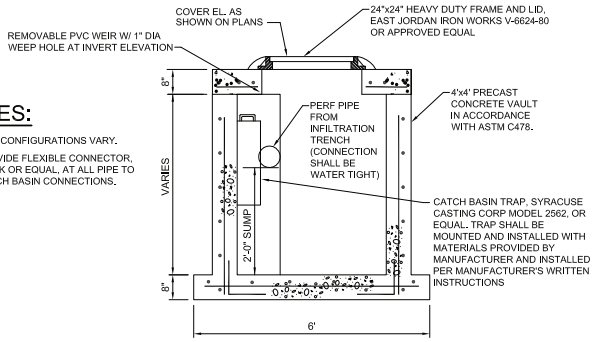
NOTES:
1. INLET FILTER INSERT SHALL BE ULTRA URBAN FILTER BY ABTECH INDUSTRIES, OR APPROVED EQUAL.
2. INSTALL FILTER INSERT IN ALL NEW CURB INLETS.

## 2 / C-5 INLET FILTER INSERT DETAIL

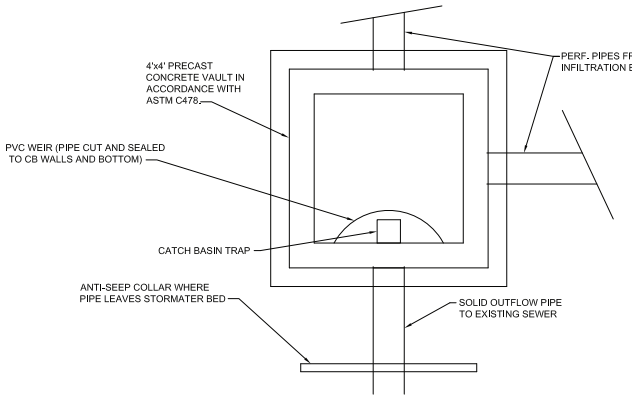
NTS

NOTES:

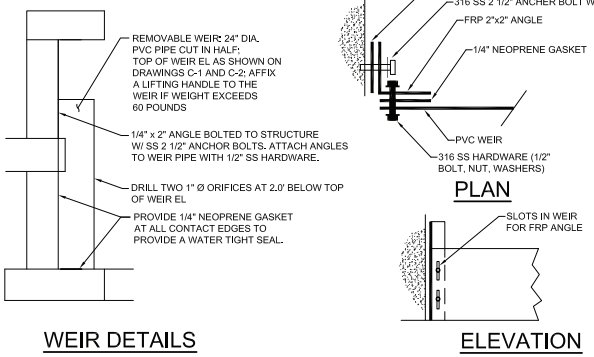
1. PIPE CONFIGURATIONS VARY.
2. PROVIDE FLEXIBLE CONNECTOR, A-LOK OR EQUAL, AT ALL PIPE TO CATCH BASIN CONNECTIONS.




## SECTION




## PLAN




## WEIR DETAILS

## PLAN




## ELEVATION

## 3 / C-5 OVERFLOW STRUCTURE DETAIL

NTS

| NO | DATE | DESCRIPTION | DR | CHK | APVD |
|---|---|---|---|---|---|
| NO. | DATE | REVISION | DM HECKLER | CM O'REILLY | A POTTS |
| DSGN | | | | | |

| BY | APVD |
|---|---|
| APVR | N |
| | DP WIBLE |

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DETAILS
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VERIFY SCALE
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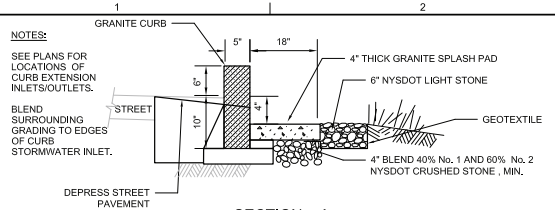
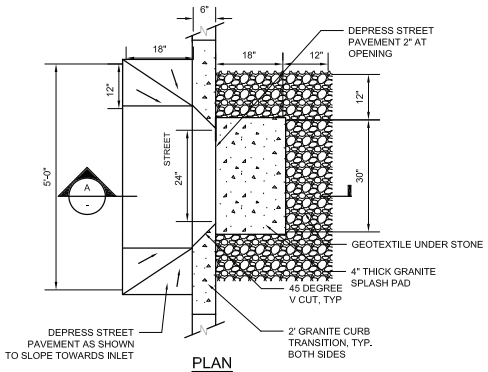
0 1"

| | |
|---|---|
| DATE | JULY 2011 |
| PROJ | 381098 |
| DWG | C-5 |
| SHEET | 7 OF 9 |

FILENAME: E36_C502-381098.dwg PLOT DATE: 7/11/2011 8:13 AM

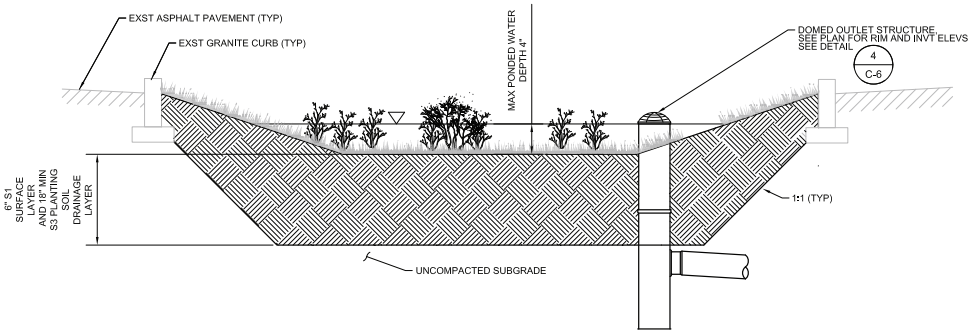



SECTION A



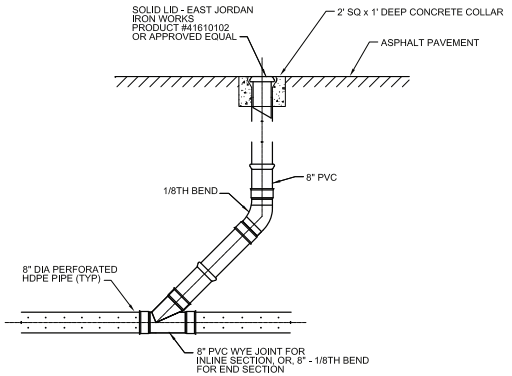

PLAN

1 C-6 **CURB STORMWATER INLET**
NTS

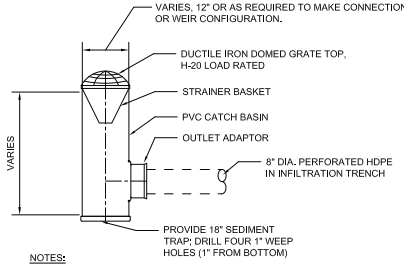



NOTES:
1. SEE PLAN FOR SIZE OF BIORETENTION.
2. SEE PLANTING PLAN AND DETAILS.

3 C-6 **BIORETENTION AREA**
NTS



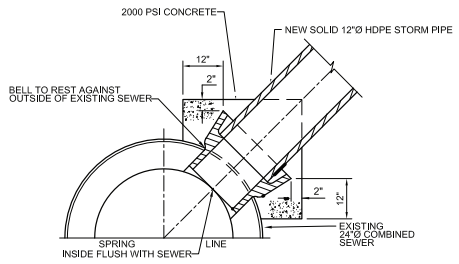

2 C-6 **CLEANOUT**
NTS




NOTES:

1. BASE AND BACKFILL SHALL BE HAND PLACED AND TAMPED IN 6" LIFTS. PLACE ALL CATCH BASINS ON 6" THICK AGGREGATE LEVELING COURSE (NYSDOT NO. 1A) ON COMPACTED SUBGRADE.
2. SEE PLANS FOR RIM AND INVERT ELEVATIONS.
3. TO BE MANUFACTURED BY NYLOPLAST, OR APPROVED EQUAL.
4. STRAINER BASKET IS SHALL BE NYLOPLAST STORM-PURE INSERT, OR APPROVED EQUAL.

4 C-6 **DOMED OUTLET RISER STRUCTURE**
NTS




NOTE:
CONNECTION TO BE CORE DRILLED AND IS TO BE PERFORMED BY A LICENSED PLUMBER.

5 C-6 **PIPE CONNECTION TO EXISTING SEWER**
NTS

| NO | DATE | DESCRIPTION | DR | CHK | APVD |
|---|---|---|---|---|---|
| NO. | DATE | REVISION | DSGN | | BY |
| | DM HECKLER | CM O'REILLY | | A POTTS | APVD |
| N | APVD | DP WIBLE | | | |

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3 OF 3

VERIFY SCALE
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0 1"

| | |
|---|---|
| DATE | JULY 2011 |
| PROJ | 381098 |
| DWG | C-6 |
| SHEET | 8 OF 9 |

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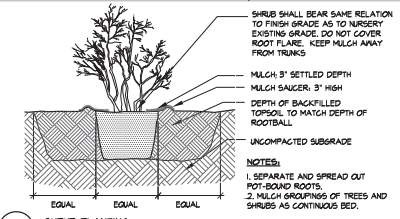
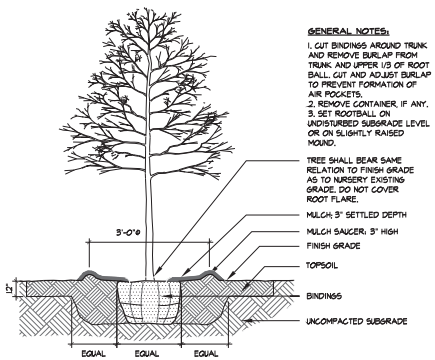
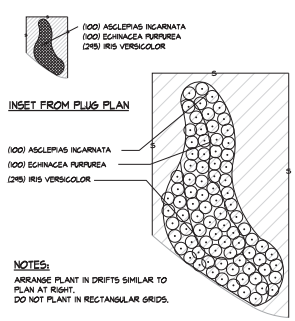



NOTES:
1. SEPARATE AND SPREAD OUT POT-BOUND ROOTS.
2. MULCH GROUPINGS OF TREES AND SHRUBS AS CONTINUOUS BED.

1 / L-1 SHRUB PLANTING
NOT TO SCALE

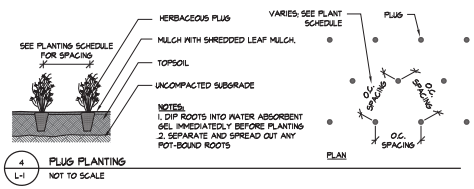



2 / L-1 TREE PLANTING
NOT TO SCALE



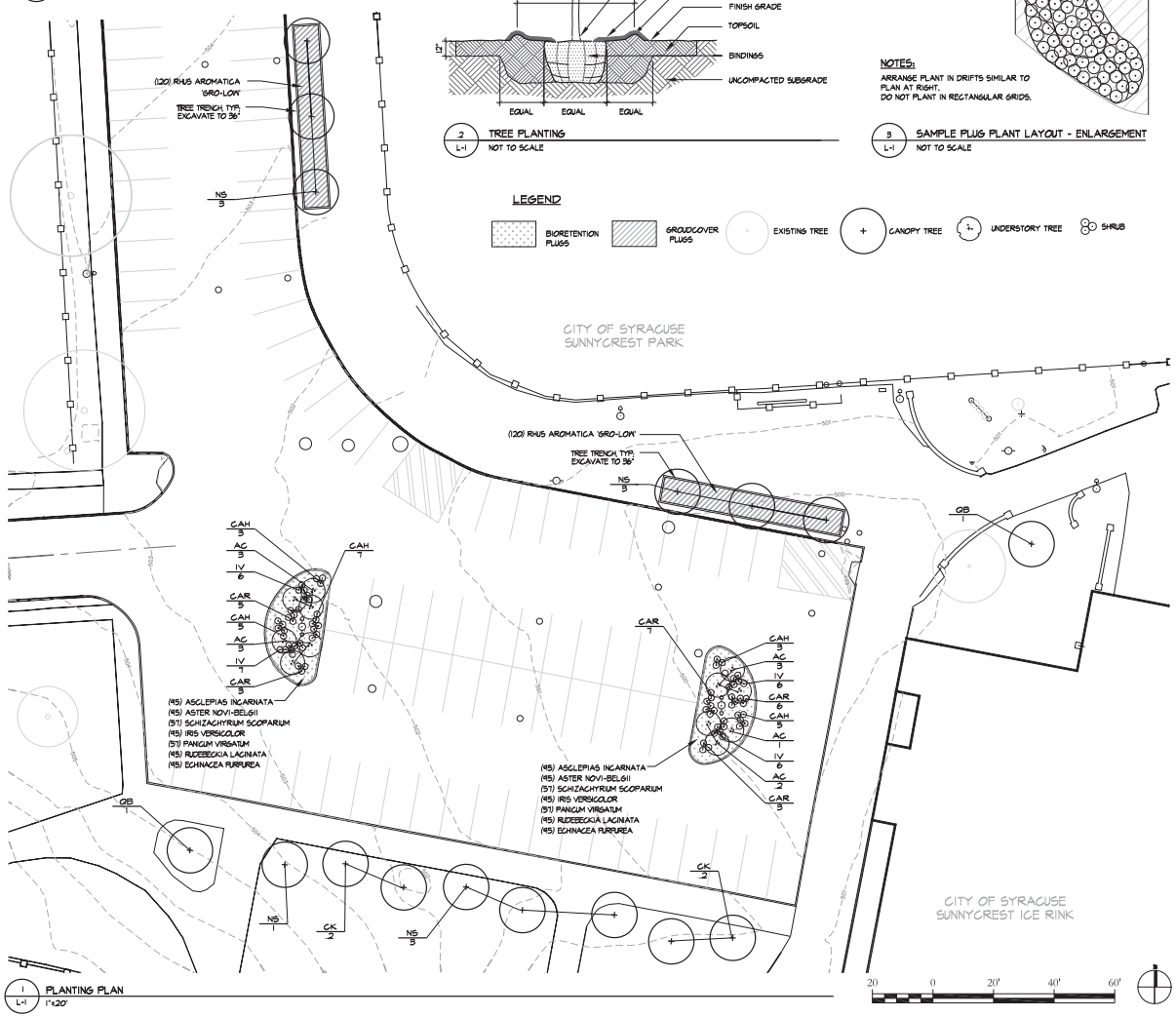

NOTES:
ARRANGE PLANT IN DRIFTS SIMILAR TO PLAN AT RIGHT.
DO NOT PLANT IN RECTANGULAR GRIDS.

3 / L-1 SAMPLE PLUG PLANT LAYOUT - ENLARGEMENT
NOT TO SCALE




NOTES:
1. DIP ROOTS INTO WATER ABSORBENT GEL IMMEDIATELY BEFORE PLANTING.
2. SEPARATE AND SPREAD OUT ANY POT-BOUND ROOTS

4 / L-1 PLUG PLANTING
NOT TO SCALE




1 / L-1 PLANTING PLAN
1"=20'

## LEGEND

BIORETENTION PLUGS
GROUNDCOVER PLUGS
EXISTING TREE
CANOPY TREE
UNDERSTORY TREE
SHRUB

## TREE SCHEDULE

| PLANT CATEGORY | CODE | # | SCIENTIFIC NAME | COMMON NAME | TYPE / SIZE | SPACING |
|---|---|---|---|---|---|---|
| CANOPY TREES | | | | | | |
| | CK | 4 | Cladrastis kentuckea | Yellowwood | 2-2.5" Caliper | As shown |
| | NS | 10 | Nyssa sylvatica | Black Gum | 2-2.5" Caliper | As shown |
| | QB | 2 | Quercus bicolor | Swamp White Oak | 2-2.5" Caliper | As shown |
| UNDERSTORY TREES | | | | | | |
| | AC | 12 | Amelanchier canadensis | Shadblow Serviceberry | 4'-6' multistemmed; B&B | As shown |

## SHRUB SCHEDULE

| PLANT CATEGORY | CODE | # | SCIENTIFIC NAME | COMMON NAME | TYPE / SIZE | SPACING |
|---|---|---|---|---|---|---|
| SHRUBS | | | | | | |
| | CAH | 23 | Clethera alnifolia 'Hummingbird' | Summersweet | 24-36" #3 Container | As shown |
| | CAR | 24 | Clethera alnifolia 'Ruby Spice' | Summersweet | 24-36" #3 Container | As shown |
| | IV | 25 | Ilex verticillata | Winterberry | 24-36" #3 Container | As shown |

## PLUG SCHEDULE

| PLANT CATEGORY | QUANTITY | SCIENTIFIC NAME | COMMON NAME | REMARKS | CONDITION |
|---|---|---|---|---|---|
| RAINGARDEN PLUGS | | | | | |
| | 190 | Asclepias incarnata | Swamp Milkweed | 12" o.c. | DP 38 Plugs, plant in drifts of 20 |
| | 190 | Aster Novi-belgii | New York Aster | 12" o.c. | DP 38 Plugs, plant in drifts of 20 |
| | 180 | Echinacea purpurea | Eastern Coneflower | 12" o.c. | DP 72 Plugs, plant in drifts of 20 |
| | 190 | Iris versicolor | Blue Flag Iris | 12" o.c. | DP 38 Plugs, plant in drifts of 20 |
| | 114 | Panicum virgatum | Switchgrass | 12" o.c. | DP 38 Plugs, plant in drifts of 10 |
| | 190 | Rudebeckia laciniata | Cutleaf Coneflower | 12" o.c. | DP 32 Plugs, plant in drifts of 20 |
| | 114 | Schizachyrium scoparium | Little Bluestem | 12" o.c. | DP 38 Plugs, plant in drifts of 10 |
| GROUNDCOVER PLUGS | | | | | |
| | 240 | Rhus aromatica 'Gro-Lon' | Sumac | 2' o.c. | Tubeling |

GENERAL PLANTING NOTES:

1. Plant material & Layout to be approved in the field by Landscape Architect prior to installation.
2. All tree and plug plantings should be done in the Fall by October 15. All plantings shall not occur after October 15. After October 15, planting must be postponed until the following spring growing season. The bioretention swales will be surfaced with mulch in the interim.
3. Stake locations of trees & shrubs before excavating plant pits for review in field by Landscape Architect.
4. Arrange sample drifts of perennials per Detail 3/L1.0 for review by Landscape Architect.
5. Coordinate locations of plantings with utilities. Obtain "as-built" plan of utilities before beginning planting. Review with Landscape Architect.
6. Repair vegetative cover over utility trenches not shown on this drawing.
7. Provide the quantity of each plant indicated on the planting plan if those quantities do not agree with the quantities on the planting schedule.
8. See plant schedule for plug spacing unless otherwise noted.
9. In addition to seeding areas shown on the plan, seed all areas disturbed by utility work and proposed work beyond regraded areas.

FIRST YEAR MAINTENANCE PROGRAM:

A. BIOINFILTRATION AREAS

1. Inspections shall be performed annually to evaluate sediment buildup, erosion, vegetative conditions, etc.
2. Debris and trash shall be disposed of at suitable disposal/recycling sites and must comply with state, local, and federal regulations.
3. Monitor for invasive plant species. Weeding may be required until vegetation is established. Weeds to be removed by hand.
4. Detritus may need to be removed approximately twice per year. Dead or diseased plants should be replaced and noxious invasive plant species should be removed. Perennial plant species may be cut back at the end of the growing season, or before the beginning of the following growing season.
5. Mulch should be replaced when erosion is evident. Mulch for the entire planting area should be replenished annually until dense plant cover is established.
6. Water during periods of extended drought.
7. Plantings should be inspected for health twice per year.

A. TREES, SHRUBS AND PERNNIALS

1. During the first growing season, provide supplemental watering during extended periods of drought, maintain a rate of 1" per week for plants during first growing season. Apply water so that all water soaks into all parts of the root ball (slow, deep soaking). Do not water if root ball is wet/saturated on irrigation day.
2. Closely monitor planting beds for invasive species and hand weed.

ISSUED FOR BIDDING AND CONSTRUCTION

CH2MHILL

LANDSCAPING
PLANTING PLAN

viridian landscape studio
PC: 315-422-1076
FAX: 315-422-1078

CH2M HILL
430 E. GENESEE STREET
SUITE 400
SYRACUSE, NY 13202

| NO. | DATE | DESCRIPTION | BY | APVD |
|---|---|---|---|---|
| NO. | DATE | REVISION | CHK | APVD |
| DSGN | | ENGINEER | DR | TD |
| | | SE AY | | TD |

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

| | |
|---|---|
| DATE | JULY 2011 |
| PROJ | 381098 |
| DWG | L-1 |
| SHEET | 9 OF 9 |

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