APPENDIX

Appendix I: City Standard Details..............................255
NOTES:
1. REFER TO SITE PLAN FOR PROJECT SPECIFIC TYPES & LIMITS OF SURFACE MATERIALS.
2. CROSS SLOPES IN AMENITIES ZONE SHALL NOT EXCEED 5% WITHOUT APPROVAL OF ENGINEER.
NOTES:

1. DRY LAID PAVERS MUST BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS

2. A MOCK-UP OF PAVERS SHALL BE BUILT TO ESTABLISH THE ACTUAL WIDTH OF PAVER BAND TO AVOID SLIVERS OF PAVERS; APPROVAL BY ENGINEER OR DDA, AS APPROPRIATE.

3. ALL PAVERS SHALL BE RATED FOR HEAVY VEHICULAR TRAFFIC
LIGHT BROOM FINISH

CONCRETE, GRADE P1 OR PN-C AS SPECIFIED BY ENGINEER WITH FIBER MESH REINFORCEMENT

CITY OF ANN ARBOR, CLASS II, COMPACT PER CITY OF ANN ARBOR STANDARD SPECIFICATIONS

COMPACT EXISTING SUBGRADE, TO 95% OF THE MATERIAL'S DRY DENSITY

NOTES:

1. CONTRACTOR TO CONSTRUCT ALL SIDEWALKS, SIDEWALK RAMPS, CURBS, AND ALL OTHER CONCRETE ITEMS WITHIN A.D.A.A.G. COMPLIANCE.

2. ALL SIDEWALK CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MDOT STANDARD DETAIL R-28-I.
NOTES:
1. DRY LAID PAVERS MUST BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS
2. A MOCK-UP OF PAVERS SHALL BE BUILT TO ESTABLISH THE ACTUAL WIDTH OF PAVER BAND TO AVOID SLIVERS OF PAVERS; APPROVAL BY DDA
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3. ALL PAVERS SHALL BE RATED FOR HEAVY VEHICULAR TRAFFIC

4. DRAINAGE AGGREGATE LAYER MAY BE THICKER TO ACCOMMODATE ADDITIONAL STORM WATER STORAGE OR VEHICULAR DESIGN LOADS
NOTES:

1. THIS DETAIL IS INTENDED AS A DESIGN GUIDELINE ONLY. FINAL DESIGN TO BE DETERMINED BASED ON FIELD CONDITIONS AND APPROVED BY ENGINEER.

TIES MAY BE REQUIRED PER ENGINEER

REFER TO SITE PLAN LIMIT FOR EDGE OF CONCRETE WORK

CONCRETE PAVEMENT AND SUPPORT PER STRUCTURAL ENGINEER

EXISTING BUILDING FACE

1/2" JOINT FILLER AND SEALANT

BUILDING

METAL DECKING/ SUPPORT AND WATERPROOFING AS REQUIRED

EXISTING VAULT WALL OR SUPPORT UNDER WALK

EXISTING VAULT OR AREAWAY TO REMAIN

COMPACTED BACKFILL OR EXISTING SUBGRADE

4 MIL VAPOR BARRIER

WATERPROOF LINER EXTENDS TO 6" BELOW VAULT FLOOR

CITY OF ANN ARBOR, CLASS II COMPACTED PER CITY OF ANN ARBOR STANDARD SPECIFICATIONS

THICKNESS VARIES

REFER TO DDA PERMEABLE PAVER TREATMENT DETAIL

CITY OF ANN ARBOR, PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

REV. NO. DATE DRAWN BY CHECKED BY

DDA PERMEABLE PAVER TREATMENT @ VAULTS OR AREAWAY

DR. SGJR CH. CEC DRAWING NO.

SCALE N.T.S. DATE 10/28/15

SD-DDA-5
GENERAL NOTES:

1. DESIGN MAY UTILIZE TOOLED OR SAW-CUT CONTRACTION JOINT. PLANS MUST INDICATE SELECTION OF JOINT TYPE. PROJECT MUST HAVE EITHER JOINT TYPE, BUT NOT BOTH.

2. CONTRACTOR TO PROVIDE MOCK UP OF PAVING FINISH, COLOR AND JOINTING FOR CITY APPROVAL, PRIOR TO INSTALLING SIDEWALKS

NOTE:

1. CHAMFERED CONTRACTION JOINT MAY BE SAWCUT AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT RAVELING OF THE CONCRETE AT THE EDGES.

2. A FORM OR GUIDE IS REQUIRED TO BE USED ON ALL CHAMFERED CONTRACTION JOINTS THAT ARE ARCS. ARC JOINTS ARE TO BE SAWCUT TO A TRUE EVEN CONTINUOUS RADIUS WITHOUT IRREGULARITIES.

NOTE:

1. TOOLED CONTRACTION TO HAVE \( \frac{1}{4} \)" RADIUS AT SURFACE OF JOINT

SAWCUT WITH 45 DEGREE CHAMFER

TOOLED CONTRACTION JOINT

SAWCUT CONTRACTION JOINT

\( \frac{1}{4} \)" CONTRACTION JOINT, TOOLED TO \( \frac{1}{4} \)" DEPTH OF PAVEMENT

\( \frac{1}{4} \)" CONTRACTION JOINT, SAWN TO \( \frac{1}{4} \)" DEPTH OF PAVEMENT

REFER TO "DDA CONCRETE SIDEWALK" DETAIL
NOTE:
1. ALL EXPANSION JOINTS TO BE SEALED IN DDA DISTRICT
2. DOWELED SEALED EXPANSION JOINTS INCLUDING BARS AND SLEEVES ARE INCIDENTAL TO PAVEMENT PAY ITEMS.
BICYCLE HOOP NOTES:
1. TO BE USED ONLY FOR DDA SIDEWALK PAVERS OR DDA PERMEABLE PAVER TREATMENTS
2. LOCATE AND GROUP BICYCLE HOOPS IN THE AMENITY ZONE.
3. BIKE HOOPS TO BE A MINIMUM OF 2'-10" FROM BACK OF CURB WHEN PERPENDICULAR TO CURB, AND 2'-0" WHEN PARALLEL.
4. REFER TO ANN ARBOR DOWNTOWN STREET DESIGN MANUAL FOR ADDITIONAL LAYOUT GUIDELINES.

BICYCLE HOOP: STAINLESS STEEL (OR GALVANIZED AND POWDER COATED) PIPE 2" O.D. SET PLUMB

REFER TO "DDA SIDEWALK PAVERS" DETAIL, OR "DDA PERMEABLE PAVER TREATMENT" DETAIL

CUT AND SCRIBE PAVERS TO FOLLOW EDGE OF HOOP

4" PIPE AND FOOTING

3/8" x 6" STEEL ANCHOR ROD, TYP.

8" CAST-IN-PLACE CONCRETE FOOTING
BICYCLE HOOP NOTES:
1. TO BE USED ONLY FOR DDA CONCRETE SIDEWALK SURFACES
2. LOCATE AND GROUP BICYCLE HOOPS IN THE AMENITY ZONE.
3. BIKE HOOPS TO BE MINIMUM OF 2'-10" FROM BACK OF CURB WHEN PERPENDICULAR TO CURB, AND 2'-0" WHEN PARALLEL.
4. REFER TO ANN ARBOR DOWNTOWN STREET DESIGN MANUAL FOR ADDITIONAL LAYOUT GUIDELINES.

BICYCLE HOOP:
STAINLESS STEEL (OR GALVANIZED AND POWDER COATED) PIPE 2" O.D.
SET PLUMB.

3'-0"

4"

1'-0"

3'-0"

½" x 4" STAINLESS STEEL TAMPER PROOF ANCHOR BOLT WITH WASHER

REFER TO "DDA CONCRETE SIDEWALK" DETAIL

SURFACE MOUNT UNIT:
3½" x 36" x ¼" STAINLESS (OR GALVANIZED POWDER COATED) PLATE
NOTES:

1. CONTRACTOR TO EXCAVATE ENTIRE PLANTING AREA. EXISTING SOIL MATERIAL TO BE DISPOSED OF OFF-SITE AT NO ADDITIONAL COST TO OWNER.

2. RAISED PLANTER MAY INTEGRATE PLANTER BOX WALL PER ANN ARBOR DOWNTOWN STREET DESIGN MANUAL, ON SIDEWALK SIDE.

3. LENGTH OF PLANTER WITH CURB MAY VARY; MUST MEET SOIL VOLUME REQUIREMENTS IN ANN ARBOR DOWNTOWN STREET DESIGN MANUAL FOR TREE PLANTING.

4. IN NO CASE SHALL UNDERDRAIN BE INSTALLED AT A SLOPE LESS THAN 0.5% OR AT A DEPTH OF LESS THAN 3.25' BELOW TOP IF PAVEMENT.

MINIMUM WIDTH 36" FOR TREE PLANTING, 30" FOR SHRUB AND FLOWER BEDS

WRAP UNDERDRAIN AGGREGATE w/ GEOTEXTILE FABRIC (OVERLAP 12")

PROVIDE A PLANTING SOIL MIX SANDY LOAM TO LOAMY SAND. MIX ONE PART OF SPHAGNUM PEAT MOSS PER EVERY ONE PART SANDY TOPSOIL.

6" DIA. PERFORATED HDPE UNDERDRAIN. - SLOPE AT MIN. OF 0.5% TOWARDS OUTFALL - INCREASE DEPTH OF UNDERDRAIN AGGREGATE AS NEEDED TO ACCOMMODATE PIPE SLOPE.

CONNECT UNDERDRAIN TO INLET OR INLET JUNCTION CHAMBER. FINAL LOCATION AS DIRECTED BY ENGINEER.
NOTES:

1. CONTRACTOR TO EXCAVATE ENTIRE PLANTING AREA. EXISTING SOIL MATERIAL TO BE DISPOSED OF OFF-SITE AT NO ADDITIONAL COST TO OWNER.

2. DO NOT PRUNE TERMINAL LEADER OR BRANCH TIPS. PRUNE AWAY DEAD AND BROKEN BRANCHES ONLY.

3. REMOVE TOP \( \frac{1}{3} \) TO \( \frac{1}{2} \) BURLAP, TWINE, ROPE, OVAL WIRE BASKET.

4. REMOVE TEMPORARY WATER BAGS FOLLOWING END OF WARRANTY PERIOD AND DURING WINTER.

5. INSTALL TREE GRATE AND FRAME PER MANUFACTURER'S RECOMMENDATIONS.

6. PLACE PLANT MIX ON SAND BASE AND COMPACT PRIOR TO TREE INSTALLATION.

7. 6" DIA. PERFORATED HDPE UNDERDRAIN. - SLOPE AT MIN. OF 0.5% TOWARDS OUTFALL - INCREASE DEPTH OF UNDERDRAIN AGGREGATE AS NEEDED TO ACCOMMODATE PIPE SLOPE. CONNECT UNDERDRAIN TO INLET OR INLET JUNCTION CHAMBER. FINAL LOCATION AS DIRECTED BY ENGINEER.

8. VARIABLES, 3' MIN. WIDTH

9. CAST-IN-PLACE FRAME SUPPLIED WITH TREE GRATE, ANCHORED IN CONCRETE

10. TREE GRATE MINIMUM SURFACE DIMENSION OF 18 S.F. MATERIALS AS SPECIFIED IN THE DOWNTOWN STREET DESIGN MANUAL AND APPROVED BY ENGINEER OR URBAN FORESTRY AND NATURAL RESOURCES COORDINATOR, AS APPROPRIATE.

11. 1½" SHREADED HARDWOOD BARK

12. SEE FRAME INSTALLATION DETAIL

13. REFER TO "DDA CONCRETE SIDEWALK" DETAIL

14. CITY OF ANN ARBOR, CLASS II, COMPACT PER CITY OF ANN ARBOR STANDARD SPECIFICATIONS

15. STRUCTURAL SOIL, EXTEND AS REQUIRED TO MEET SOIL VOLUME REQUIREMENTS IN ANN ARBOR DOWNTOWN STREET DESIGN MANUAL

16. PLACE PLANT MIX ON SAND BASE AND COMPACT PRIOR TO TREE INSTALLATION
BARRIER CURB AND GUTTER

VARIATES, 5'-0" MIN.

1'-0"

AMENITIES ZONE
VARIATES, 5'-0" MIN.

STRUCTURAL SOIL, EXTEND AS REQUIRED UNDERNEATH AMENITY ZONE SURFACE MATERIAL TO MEET SOIL VOLUME REQUIREMENT IN ANN ARBOR DOWNTOWN STREET DESIGN MANUAL

REFER TO DDA TREE PIT SECTION PERPENDICULAR TO CURB
IF NO OUTFALL AVAILABLE TO INLET OR INLET JUNCTION CHAMBER, PROVIDE SCUPPER OR GAP IN CURB TO OUTLET STORMWATER TO STREET

CLASS "A" CONCRETE PAVEMENT

CURB & GUTTER

FINISH GRADE

GRADE MAY BE FLUSH WITH WALK OR UP TO 6" BELOW WALK GRADE

MAXIMUM STORAGE DEPTH (6"-18")

MAXIMUM 3:1 SIDE SLOPES, (TYP.)

VEGETATION SOIL, AND DRAINAGE DETAILS TO BE DESIGNED ON A PROJECT BY PROJECT BASIS

PLANTER CURB PER DDA RAISED PLANTER. MODIFY FOR STORMWATER INLETS AND DRAINAGE ON A PROJECT BY PROJECT BASIS

REFER TO "DDA CONCRETE SIDEWALK" DETAIL

MIN. SLOPE

SLOPE

4'-6"

6'-10"

2'-0"

1'-0"

2'-0"

6"-10"
NOTE:
VERIFY AND COORDINATE UTILITIES AND SERVICES WITH UTILITY OWNERS TO MAKE ADJUSTMENTS AND MODIFICATIONS AS NECESSARY

CITY OF ANN ARBOR, CLASS II, COMPACT PER CITY OF ANN ARBOR STANDARD SPECIFICATIONS

SIDEWALK PAVEMENT

CASTING PER CITY STANDARD

CONCRETE INFILTRATION STRUCTURE

INFILTRATION INLET

VOLUME OF OPEN GRADED AGGREGATE TO BE DETERMINED ON A PROJECT BY PROJECT BASIS

UNCOMPACTED SOIL

GRATE 6110N EJIW

INSPECTION PORT CASTING 1578 EJIW

NON-WOVEN GEOTEXTILE SEPARATOR

BIAXIAL OR TRIAXIAL GEOGRID

HMA (SECTION TO BE DESIGNED BY ENGINEERS BASED ON TRAFFIC)

STONE RESERVOIR, MDOT 6A, DEPTH VARIES PER PAVEMENT SECTION DESIGN

GRATE 6110N EJIW PER CITY STANDARD

CITY OF ANN ARBOR, CLASS II, COMPACT PER CITY OF ANN ARBOR STANDARD SPECIFICATIONS

NOTE:
VERIFY AND COORDINATE UTILITIES AND SERVICES WITH UTILITY OWNERS TO MAKE ADJUSTMENTS AND MODIFICATIONS AS NECESSARY

CITY OF ANN ARBOR, CLASS II, COMPACT PER CITY OF ANN ARBOR STANDARD SPECIFICATIONS

SIDEWALK PAVEMENT

CASTING PER CITY STANDARD

CONCRETE INFILTRATION STRUCTURE

INFILTRATION INLET

VOLUME OF OPEN GRADED AGGREGATE TO BE DETERMINED ON A PROJECT BY PROJECT BASIS

UNCOMPACTED SOIL

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INSPECTION PORT CASTING 1578 EJIW

NON-WOVEN GEOTEXTILE SEPARATOR

BIAXIAL OR TRIAXIAL GEOGRID

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STONE RESERVOIR, MDOT 6A, DEPTH VARIES PER PAVEMENT SECTION DESIGN

GRATE 6110N EJIW PER CITY STANDARD

CITY OF ANN ARBOR, CLASS II, COMPACT PER CITY OF ANN ARBOR STANDARD SPECIFICATIONS

NOTE:
VERIFY AND COORDINATE UTILITIES AND SERVICES WITH UTILITY OWNERS TO MAKE ADJUSTMENTS AND MODIFICATIONS AS NECESSARY

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SIDEWALK PAVEMENT

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