

CHERRY AVENUE STREETScape IMPROVEMENTS

FROM 7-1/2 STREET SW TO 6TH STREET SW

CITY OF CHARLOTTESVILLE, VIRGINIA

EXISTING FEATURES LEGEND

CONC.	CONCRETE
CGG	CURB & GUTTER
D. I.	DROP INLET
EO	ELECTRIC OUTLET
FH	FIRE HYDRANT
GB	GAS BOX
GV	GAS VALVE
INV	INVERT
MB	MAILBOX
MH	MANHOLE
TP	TELEPHONE PEDESTAL
UB	UTILITY BOX
WM	WATER METER
WV	WATER VALVE
---	CONTOURS
-x-x-	FENCE
-v-v-	OVERHEAD UTILITY LINE
- - -	R.O.W. OR PROPERTY LINE
-w-w-	UNDERGROUND WATER LINE
-c-c-	UNDERGROUND COMMUNICATION
-e-e-	UNDERGROUND ELECTRIC LINE
-g-g-	UNDERGROUND GAS LINE

STANDARD ABBREVIATIONS

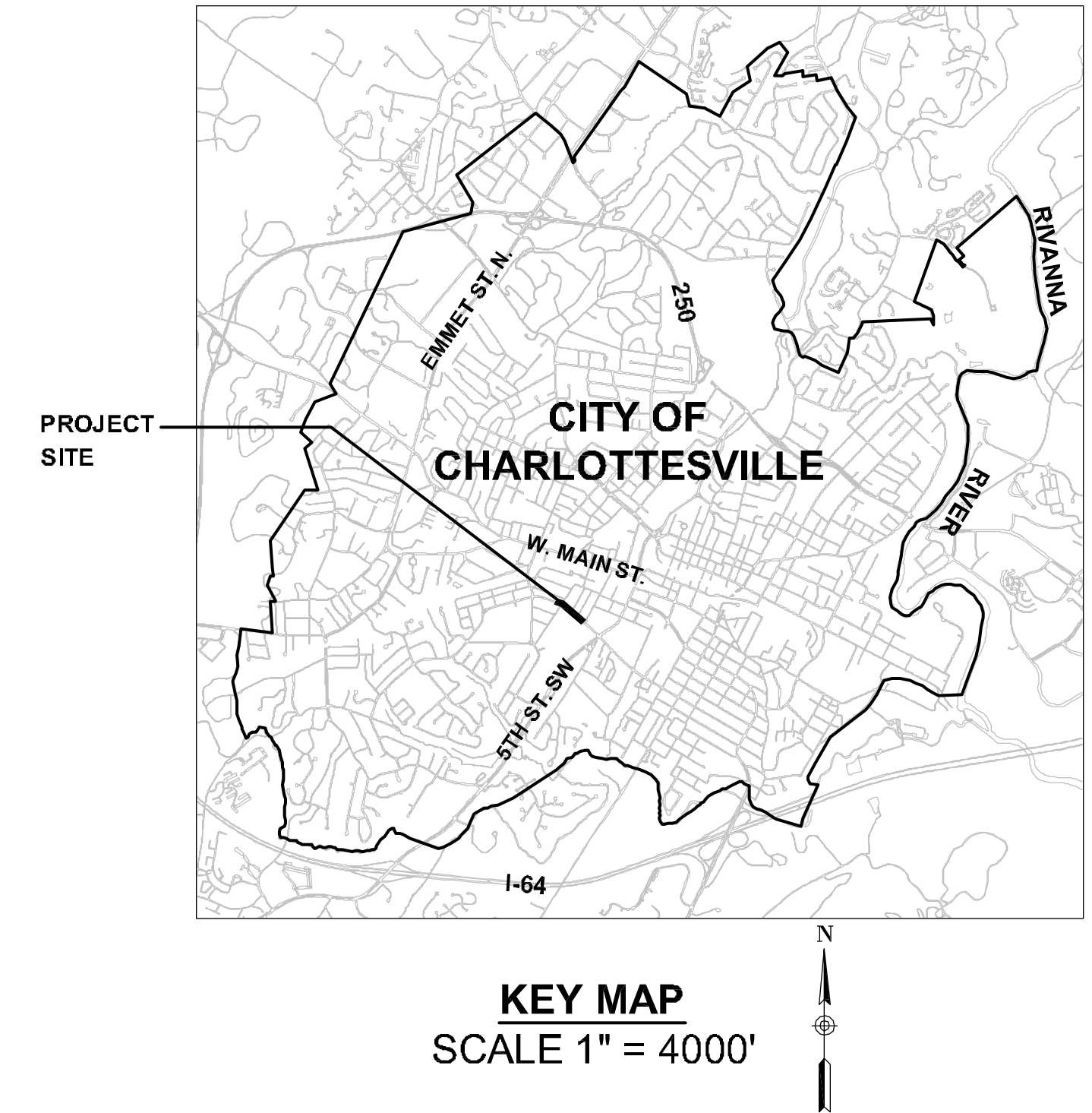
ABAN	ABANDON
AC	ACRES
ADJ	ADJUST
APPROX	APPROXIMATE
ℓ	BASELINE
BLDG	BUILDING
BM	BENCHMARK
BO	BY OTHERS
BOS	BOTTOM OF SLOPE
CC	CONCRETE CURB
CEM	CEMENT
CLF	CENTERLINE CHAINLINK FENCE
CG	CURB RAMP
CONC	CONCRETE
CONST	CONSTRUCTION
DI	DROP INLET
EB	EASTBOUND
ELEV	ELEVATION
EOP	EDGE OF PAVEMENT
EOR	EDGE OF ROAD
EXIST	EXISTING
FND	FOUNDATION
GRAV	GRAVEL
HMA	HOT MIX ASPHALT
ID	INSIDE DIAMETER
LA	LANDSCAPED AREA
LF	LINEAR FEET
LOG	LIMIT OF GRADING
LOD	LIMITS OF DISTURBANCE
LT	LEFT
MAX	MAXIMUM
MIN	MINIMUM
NIC	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OD	OUTSIDE DIAMETER
PRKG	PARKING
PROJ	PROJECT
PROP	PROPOSED
P/VM/T	PAVEMENT
REM	REMOVE
ROW	RIGHT-OF-WAY
RT	RIGHT
R&D	REMOVE AND DISPOSE
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
SB	SOUTHBOUND
SF	SQUARE FEET
SSD	STOPPING SIGHT DISTANCE
STA	STATION
SW	SIDEWALK
TEMP	TEMPORARY
TRANS	TRANSITION
TYP	TYPICAL
WB	WESTBOUND

ALIGNMENT/GRADING ABBREVIATIONS

BC	BOTTOM OF CURB
BOC	BACK OF CURB
BR	BOTTOM OF RAMP
D OR Δ	DELTA ANGLE
FOC	FACE OF CURB
L	LENGTH
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PI	POINT OF INTERSECTION
PNT	POINT
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
R	RADIUS
T	TANGENT DISTANCE
TC	TOP OF CURB
TR	TOP OF RAMP

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19	C7.0 LANDSCAPE PLANS
20-22	C8.0-C8.2 STANDARD DETAILS

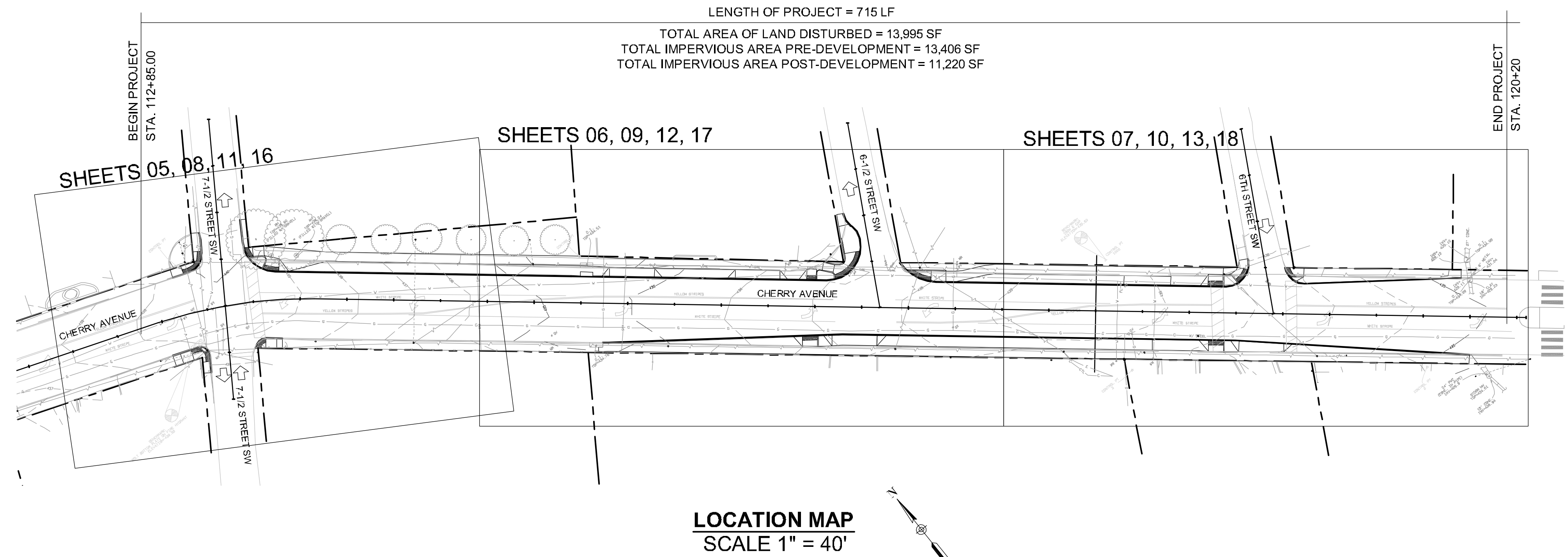


SURVEY NOTES

- UTILITY MARKING WAS REQUESTED UNDER MISS UTILITY TICKET A331701735-00A.
- HORIZONTAL DATUM: VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE NAD83 USING GPS & OPUS. VERTICAL DATUM: NAVD88 USING GPS & OPUS.
- COMPLETE VISIBLE UNDERGROUND UTILITY INFORMATION WAS ONLY PROVIDED IN THE FOLLOWING FOUR PORTIONS OF CHERRY AVENUE:
100' IN EACH DIRECTION FROM THE CENTER OF THE INTERSECTIONS WITH 6TH ST SW, 6 1/2 ST SW & 7 1/2 ST SW AND IN FRONT OF TAX MAP 30 PARCELS 140, 141 & 144.10.
- THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF BRIAN S. RAY OF ROGER W. RAY & ASSOCIATES, INC. FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION, I CERTIFY THAT THE IMAGERY AND/OR ORIGINAL DATA WAS OBTAINED ON JANUARY 8, 2014, AND THAT THIS PLAT, MAP, OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.

DESIGN CRITERIA

- DESIGN SPEED = 35MPH
- AVERAGE DAILY TRAFFIC = 12,000 VEHICLES/DAY
- VDOT FUNCTIONAL CLASSIFICATION = URBAN MINOR ARTERIAL



GENERAL NOTES

UTILITIES

1. PRIOR TO CONSTRUCTION OR EXCAVATION, THE CONTRACTOR SHALL ASSUME RESPONSIBILITY OF LOCATING ANY AND ALL UNDERGROUND UTILITIES (PUBLIC OR PRIVATE) THAT MAY EXIST WITHIN OR CROSS THROUGH THE AREA OF CONSTRUCTION WHETHER OR NOT THEY ARE SHOWN ON THE PLANS. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL CALL MISS UTILITY OF VIRGINIA AT 1-800-552-7001. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT HIS SOLE EXPENSE, ANY EXISTING UTILITY DAMAGED DURING CONSTRUCTION.
2. THE PLAN DOES NOT GUARANTEE THE EXISTENCE, NONEXISTENCE, SIZE, TYPE, LOCATION, ALIGNMENT, OR DEPTH OF ANY OR ALL UNDERGROUND UTILITIES OR OTHER FACILITIES, WHERE SURFACE FEATURES (MANHOLES, CATCH BASINS, VALVES, ETC.) ARE UNAVAILABLE OR INCONCLUSIVE. INFORMATION SHOWN MAY BE FROM UTILITY OWNER'S RECORDS AND/OR ELECTRONIC LINE TRACING, THE RELIABILITY OF WHICH IS UNCERTAIN. THE CONTRACTOR SHALL PERFORM TEST EXCAVATIONS OR OTHER INVESTIGATION AS NECESSARY TO VERIFY LOCATION AND CLEARANCES.
3. WHEN THE WORK CROSSES EXISTING UTILITIES, THE EXISTING UTILITIES SHALL BE ADEQUATELY SUPPORTED AND PROTECTED FROM THE DAMAGE DUE TO THE WORK. ALL METHODS FOR SUPPORTING AND MAINTAINING THE EXISTING UTILITIES SHALL BE APPROVED BY THE RESPECTIVE UTILITY COMPANY AND/OR THE ENGINEER. CONTRACTOR SHALL EXERCISE CARE TO INSURE THAT THE GRADE AND ALIGNMENT OF EXISTING UTILITIES ARE MAINTAINED AND THAT NO JOINTS OR CONNECTIONS ARE DISPLACED. BACKFILL SHALL BE CAREFULLY PLACED AND COMPACTED TO PREVENT FUTURE DAMAGE OR SETTLEMENT TO EXISTING UTILITIES. ANY UTILITIES REMOVED AS PART OF THE WORK, AND NOT INDICATED TO BE REMOVED OR ABANDONED, SHALL BE RESTORED USING MATERIALS AND INSTALLATION EQUAL TO THE UTILITY'S STANDARDS.
4. CONTRACTOR SHALL NOTIFY LANDOWNERS, TENANTS AND THE ENGINEER A MINIMUM OF 72 HOURS PRIOR TO THE INTERRUPTION OF ANY SERVICES. SERVICE INTERRUPTIONS SHALL BE KEPT TO A MINIMUM.
5. CONTRACTOR TO MAKE ANY NECESSARY ADJUSTMENTS TO ALL UTILITY JUNCTION BOXES, VALVE BOXES, MANHOLES, CLEAN-OUTS, AND OTHER GRADE RELATED ITEMS IN SIDEWALK, ROADWAY, AND/OR ADJACENT AREAS TO MATCH FINISHED GRADE. COSTS ARE TO BE INCLUDED UNDER THE VARIOUS UNIT BID ITEMS. NO SEPARATE PAYMENT WILL BE MADE.

EROSION CONTROL & WORK AREA PROTECTION AND MAINTENANCE

1. CONTRACTOR IS PERMITTED TO WORK IN THE PUBLIC RIGHT-OF-WAY AND ANY TEMPORARY OR PERMANENT EASEMENT SHOWN ON THE PLANS. HOWEVER, CONTRACTOR SHALL NOTIFY PROPERTY OWNER(S) FORTY EIGHT (48) HOURS PRIOR TO WORKING ON ANY PRIVATE PROPERTY TO COORDINATE ACCESS AND TO DETERMINE A STORAGE AREA FOR MATERIALS IF NEEDED. COORDINATION OF ACCESS TO PUBLIC RIGHT-OF-WAY AND STORAGE OF MATERIALS THEREON SHALL BE COORDINATED WITH THE ENGINEER. CONTRACTOR'S FAILURE TO NOTIFY AND COORDINATE WITH PROPERTY OWNERS AND/OR THE ENGINEER MAY RESULT IN DELAYS. NO ADDITIONAL COMPENSATION OR TIME FOR PERFORMANCE WILL BE GIVEN FOR ANY SUCH DELAYS.
2. CONTRACTOR SHALL, AT HIS EXPENSE, MAINTAIN THE WORK SITE IN A CLEAN AND ORDERLY APPEARANCE AT ALL TIMES. ALL DEBRIS AND SURPLUS MATERIAL COLLECTED SHALL BE DISPOSED OF OFF THE WORK SITE BY CONTRACTOR, AT HIS EXPENSE.
3. EXISTING LAWNS, TREES, SHRUBS, FENCES, UTILITIES, CULVERTS, WALLS, WALKS, DRIVEWAYS, POLES, SIGNS, RIGHT-OF-WAY MONUMENTS, MAILBOXES AND THE LIKE SHALL BE PROTECTED FROM DAMAGE DURING THE WORK. ANY DAMAGE CAUSED TO SUCH ITEMS SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AT NO ADDITIONAL COST. PROPERTY PINS DISTURBED BY CONTRACTOR THAT ARE NOT SHOWN ON THE PLANS TO BE DISTURBED SHALL BE RESTORED BY LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE.
4. MEASURES TO CONTROL EROSION AND SILTATION SHALL BE PROVIDED PURSUANT TO AND IN COMPLIANCE WITH CURRENT FEDERAL, STATE AND LOCAL REGULATIONS. THE INFORMATION CONTAINED IN THE CONSTRUCTION PLANS AND/OR APPROVAL OF THE PLANS SHALL IN NO WAY RELIEVE THE CONTRACTOR OR HIS AGENT OF ANY LEGAL RESPONSIBILITY WHICH MAY BE REQUIRED BY THE CODE OF VIRGINIA OR ANY ORDINANCE ENACTED BY THE CITY OF CHARLOTTESVILLE. CONTRACTOR SHALL PROVIDE THE NECESSARY DIVERSION DITCHES, DIKES, OR TEMPORARY CULVERTS REQUIRED TO PREVENT MUD AND DEBRIS FROM BEING WASHED ONTO THE STREETS OR ADJACENT PROPERTY. CONTRACTOR'S VEHICLES SHALL BE KEPT CLEAN TO PREVENT MUD OR DUST FROM BEING DEPOSITED ON STREETS. NO AREA SHALL BE LEFT DENUDE FOR MORE THAN SEVEN (7) CALENDAR DAYS.
5. CONTRACTOR SHALL CLEAN UP, RESTORE, SEED AND MAINTAIN ALL DISTURBED AREAS IMMEDIATELY UPON COMPLETION OF WORK. TOPSOIL, SEED, FERTILIZER AND MULCH SHALL BE PLACED IN ACCORDANCE WITH CITY STANDARDS ON ALL DISTURBED AREAS. A PERMANENT STAND OF GRASS ADEQUATE TO PREVENT EROSION SHALL BE ESTABLISHED PRIOR TO FINAL ACCEPTANCE. ALL EROSION AND SEDIMENT CONTROLS SHALL BE REMOVED WITHIN 30 DAYS AFTER THE PROJECT IS STABILIZED. (MS-18)
6. FOR FURTHER REQUIREMENTS AND DETAILS OF TREE PRESERVATION, PLANTING, EROSION AND SEDIMENT CONTROL, REFER TO THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.
7. AN EROSION AND SEDIMENT CONTROL CONTRACTOR CERTIFICATION (E.S.C.C.C.) IS REQUIRED FOR ALL LAND DISTURBANCE ACTIVITIES.
8. THE CONTRACTOR SHALL PROPERLY INSTALL AND MAINTAIN EROSION AND SEDIMENT CONTROLS FOR THE LIFE OF THE PROJECT; AND ROUTINELY CHECK CONTROL DEVICES BEFORE, DURING AND AFTER STORM EVENTS.

INCIDENTAL NOTES

1. CLEARING AND GRUBBING SHALL BE CONFINED TO THOSE AREAS NEEDED FOR CONSTRUCTION.
2. DISTURBED AREAS BEYOND THE ROADWAY CURB AND WHERE INDICATED ON THE PLANS SHALL RECEIVE TOPSOIL AS NECESSARY AND AS DIRECTED. SEEDING MIXTURE SHALL BE DETERMINED BY THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, SECTION 3.32

VEGETATION

1. TREE AND PLANT ROOTS OR BRANCHES THAT MAY INTERFERE WITH THE WORK SHALL BE TRIMMED OR CUT ONLY WITH THE APPROVAL OF THE OWNER AND ENGINEER. ANY TREES OR PLANTS WHICH ARE SHOWN TO REMAIN THAT DO NOT INTERFERE WITH THE WORK, BUT ARE DAMAGED BY CONTRACTOR OR HIS SUB-CONTRACTORS, SHALL BE REPLACED BY CONTRACTOR AT NO ADDITIONAL COST.

EARTH WORK AND SITE CONDITIONS

1. EXCEPT AS OTHERWISE SHOWN ON THE PLANS, ALL CUTS AND FILLS SHALL MATCH EXISTING SLOPES OR BE NO GREATER THAN 4:1.
2. UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS, ALL FILL MATERIALS SHALL BE COMPACTED TO 95% OF THEORETICAL MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99 METHOD A, WITHIN PLUS OR MINUS 2% OF OPTIMUM MOISTURE, FOR THE FULL WIDTH AND THE DEPTH OF THE FILL.
3. ALL GRADING AND IMPROVEMENTS TO BE CONFINED TO THE PROJECT AREA UNLESS OTHERWISE INDICATED.
4. PROPOSED GRADES SHALL BE FIELD ADJUSTED TO CONFORM TO THE INTENT OF THE TYPICAL SECTIONS. A SMOOTH GRADE SHALL BE MAINTAINED FOR THE BASELINE TO THE PROPOSED EDGE OF PAVEMENT OR FACE OF CURB TO PRECLUDE THE FORMING OF FALSE GUTTERS AND/OR PONDING OF WATER ON ALL PAVED SURFACES.
5. ALL MATERIALS AND INSTALLATION DETAILS SHALL CONFORM TO THE CITY OF CHARLOTTESVILLE ENGINEERING DIVISION STANDARDS AND ALL OTHER APPLICABLE CITY ORDINANCES.
6. ANY UNUSUAL OR UNANTICIPATED SUBSURFACE CONDITIONS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER.
7. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND LOCATIONS PRIOR TO BEGINNING WORK, AND IMMEDIATELY NOTIFY THE ENGINEER IN THE EVENT THERE ARE ANY DISCREPANCIES BETWEEN SUCH CONDITIONS AND THOSE SHOWN ON THE PLANS AND SPECIFICATIONS.

CONCRETE AND ASPHALT

1. ALL MATERIAL INSIDE FORMS SHALL BE CLEAN AND FREE OF ALL ROCKS AND OTHER LOOSE DEBRIS. SUB-BASE MATERIAL SHALL BE COMPACTED BY MECHANICAL MEANS.
4. CONCRETE SHALL NOT BE PLACED UNLESS THE AIR TEMPERATURE IS AT LEAST 40 DEGREES FAHRENHEIT (F) IN THE SHADE AND RISING.
5. CONCRETE SHALL NOT BE PLACED UNTIL STEEL DOWELS HAVE BEEN INSTALLED IN EXISTING CONCRETE IN ACCORDANCE WITH CITY STANDARDS.
6. 1/2" PREMOULDED EXPANSION JOINT MATERIAL SHALL BE PLACED AT A MAXIMUM OF 30' INTERVALS ON NEW SIDEWALK, CURB, GUTTER, AT EACH END OF DRIVEWAY ENTRANCES, AT EACH END OF HANDICAP RAMPS, SOME POINT ON ENTRANCE WALKS AND STEPS ADJUSTMENTS, AND ALONG BUILDINGS AND WALLS WHERE NEW CONCRETE SIDEWALKS ARE PLACED AGAINST THEM.
7. ALL EXISTING CURBS, CURB & GUTTER, SIDEWALK AND STEPS TO BE REMOVED SHALL BE TAKEN OUT TO THE NEAREST JOINT. DEMOLITION AND DISPOSAL COST TO BE INCLUDED IN OTHER UNIT BID ITEMS. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.
8. EXISTING ASPHALT CONCRETE PAVEMENT SHALL BE SAW CUT AND REMOVED AS PER THE SPECIFICATIONS. REMOVAL SHALL BE DONE IN SUCH A MANNER AS TO NOT TEAR, BULGE OR DISPLACE ADJACENT PAVEMENT. EDGES SHALL BE CLEAN AND VERTICAL, ALL CUTS SHALL BE PARALLEL OR PERPENDICULAR TO THE DIRECTION OF TRAFFIC.
9. DISPOSAL OF ALL EXCESS AND DEMOLITION MATERIAL IS THE RESPONSIBILITY OF THE CONTRACTOR.

DRAINAGE

1. CONTRACTOR SHALL EXERCISE CARE, ESPECIALLY AT INTERSECTIONS AND GUTTER LINES, TO PROVIDE POSITIVE DRAINAGE. ANY AREAS WHERE WATER IS IMPOUNDED SHALL BE CORRECTED BY CONTRACTOR AT NO ADDITIONAL COST. POSITIVE DRAINAGE OF ALL ROADWAY AREAS TO THE STORM DRAIN INLETS OR OTHER ACCEPTABLE DRAINAGE CHANNELS AS NOTED ON THE PLANS IS REQUIRED.
2. CONTRACTOR SHALL MAINTAIN EXISTING STREAMS, DITCHES, DRAINAGE STRUCTURES, CULVERT AND FLOWS AT ALL TIMES DURING THE WORK. CONTRACTOR SHALL PAY FOR ALL PERSONAL INJURY AND PROPERTY DAMAGE WHICH MAY OCCUR AS A RESULT OF FAILING TO MAINTAIN ADEQUATE DRAINAGE.
3. ALL PIPES, D/S AND OTHER STRUCTURES SHALL BE INSPECTED BY THE ENGINEER BEFORE BEING BACKFILLED OR BURIED. THE ENGINEER MAY REQUIRE CONTRACTOR, AT NO ADDITIONAL COST, TO UNCOVER AND RE-COVER SUCH STRUCTURES IF THEY HAVE BEEN BACKFILLED OR BURIED WITHOUT SUCH INSPECTION.

GENERAL NOTES FOR MAINTENANCE OF TRAFFIC

1. THE VIRGINIA WORK AREA PROTECTION MANUAL AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL GOVERN ALL TEMPORARY TRAFFIC CONTROL OPERATIONS THROUGHOUT CONSTRUCTION OF THIS PROJECT. ADHERENCE TO APPLICABLE PROVISIONS OF THE MANUAL IS REQUIRED OF THE CONTRACTOR EVEN THOUGH DETAILED REFERENCE TO ALL SUCH PROVISIONS MAY NOT BE CONTAINED IN THE PLANS.
2. ALL EXISTING RESIDENTIAL AND COMMERCIAL ENTRANCES SHALL BE MAINTAINED AT ALL TIMES, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
3. NO TEMPORARY PAVEMENT MARKING SHALL BE ALLOWED ON THE FINAL ASPHALT SURFACE COURSE.
4. THE CONTRACTOR SHALL MAINTAIN ALL LANES OF TRAVEL OPEN FROM 6:30 AM TO 9:00 AM AND 3:00 PM TO 5:00 PM UNLESS DEEMED UNNECESSARY BY THE ENGINEER. SHORT PERIODS OF ONE WAY FLAGGING OPERATIONS MAY BE CONDUCTED OUTSIDE THE HOURS MENTIONED ABOVE.
5. ALL TRAFFIC SIGNALS SHALL BE ADJUSTED BY THE ENGINEER AS DEEMED NECESSARY BY THE ENGINEER PRIOR TO ANY TRAFFIC CHANGES.
6. WHEN WORK IN THE EXCAVATION AREA IS DISCONTINUED FOR A SHORT PERIOD OF TIME, AS AT NIGHT, THE CONTRACTOR SHALL BACKFILL THE CUT AREAS ADJACENT TO THE EXISTING PAVEMENT WITH A FILLET OF MATERIAL. THE FILLET SHALL BE COMPOSED OF THE SAME MATERIAL (EXCAVATION, BORROW, BASE COURSE, ETC.) ALL COSTS FOR PLACING AND REMOVING THIS FILLET OF MATERIAL SHALL BE INCLUDED IN THE PRICE BID FOR OTHER BID ITEMS OF WORK ON THIS PROJECT, AND NO ADDITIONAL CHARGE WILL BE ALLOWED.
7. EXISTING SURFACE, AGGREGATE BASE AND SUBBASE MATERIAL WHICH WILL BE DEMOLISHED OR OBLITERATED DURING CONSTRUCTION AND WHICH IS SUITABLE FOR MAINTENANCE OF TRAFFIC AS DETERMINED BY THE ENGINEER, SHALL BE SALVAGED AND UTILIZED FOR MAINTENANCE OF TRAFFIC PRIOR TO THE USE OF COMMERCIAL MATERIAL. WHEN NOT SPECIFIED AS A SEPARATE PAY ITEM, THE REMOVAL AND SALVAGING OF EXISTING SURFACES AND AGGREGATE BASE AND SUBBASE MATERIAL WILL BE MEASURED AND PAID FOR AS REGULAR EXCAVATION IN ACCORDANCE WITH SECTION 303 OF THE SPECIFICATIONS.
8. CONSTRUCT ALL INTERSECTIONS AND DRIVEWAYS UNDER TRAFFIC.
9. TEMPORARY TRAFFIC BARRIER SERVICE SHALL BE INSTALLED AND REMOVED SO AS NOT TO PRESENT ANY BLUNT END OR HAZARD TO THE MOTORING PUBLIC.
10. CONTRACTOR SHALL NOTIFY TRANSIT PROVIDERS A MINIMUM OF TWO WEEKS PRIOR TO ANY IMPACT OR DISRUPTION TO REGULAR SERVICE OR STOPS.
11. ALL EXISTING PAVEMENT MARKINGS CONFLICTING WITH PROPOSED CONSTRUCTION PAVEMENT MARKINGS SHALL BE ERADICATED.
12. INSTALLATION AND REMOVAL OF TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE SECTION 66.25 OF THE WORK AREA PROTECTION MANUAL.
13. USE APPROPRIATE SIGNS TO SHIFT PEDESTRIAN TRAFFIC AS NEEDED.
14. CONTRACTOR SHALL ASSURE ENDS OF TEMPORARY CONCRETE BARRIER DO NOT OBSTRUCT INTERSECTION SIGHT LINES.

SUGGESTED SEQUENCE OF CONSTRUCTION (SEE SHEET C1.1)

PHASE 1

1A-SHIFT CHERRY AVENUE TRAFFIC TO THE SOUTH APPROXIMATELY 6 FEET. MAINTAIN ONE THROUGH TRAVEL LANE IN EACH DIRECTION AND LEFT TURN LANES AT 7 1/2' STREET AND JUST WEST OF 5TH STREET. ALL TRAVEL LANES SHALL BE A MINIMUM OF 10 FEET. MAINTAIN PEDESTRIAN TRAFFIC ALONG CHERRY AVENUE ON THE SOUTHERN SIDEWALK.

1B- PROVIDE PHASE 1 CHANNELIZING DEVICES AND CONSTRUCTION SIGNING.

1C-INSTALL PHASE 1 EROSION AND SEDIMENT CONTROL DEVICES, AND CONSTRUCT THE CURB AND SIDEWALK CHANGES ALONG THE NORTH SIDE OF CHERRY AVENUE.

PHASE 2

2A-SHIFT CHERRY AVENUE TRAFFIC TO THE NORTH APPROXIMATELY 6 FEET FROM THE EXISTING CURB LINE AT THE 7 1/2' STREET INTERSECTION AND THE NEW CURB LINE FROM 6 1/2' TO 6TH STREETS. MAINTAIN ONE THROUGH TRAVEL LANE IN EACH DIRECTION AND LEFT TURN LANES AT 7 1/2' STREET. ALL TRAVEL LANES SHALL BE A MINIMUM OF 10 FEET. MAINTAIN PEDESTRIAN TRAFFIC ALONG CHERRY AVENUE ON THE NORTHERN SIDEWALK.

2B- PROVIDE PHASE 2 CHANNELIZING DEVICES AND CONSTRUCTION SIGNING.

2C- INSTALL PHASE 2 EROSION AND SEDIMENT CONTROL DEVICES, AND CONSTRUCT THE CURB AND SIDEWALK CHANGES ALONG THE NORTH SIDE OF CHERRY AVENUE.

PHASE 3

COMPLETE CONSTRUCTION INCLUDING NEW PAVEMENT FINAL SURFACE COURSE, REMAINING, LANDSCAPE/STREETCAPE FEATURES, SIGNING, PAVEMENT MARKINGS, AND RAPID FLASH BEACONS.



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CHERRY AVENUE
7-1/2 STREET SW TO 6TH STREET SW
CHARLOTTESVILLE, VA

PREPARED: ELJ/D/MK

CHECKED: EM/MAB

DATE

04/28/14

REV. 1 -

REV. 2 -

REV. 3 -

SHEET NAME

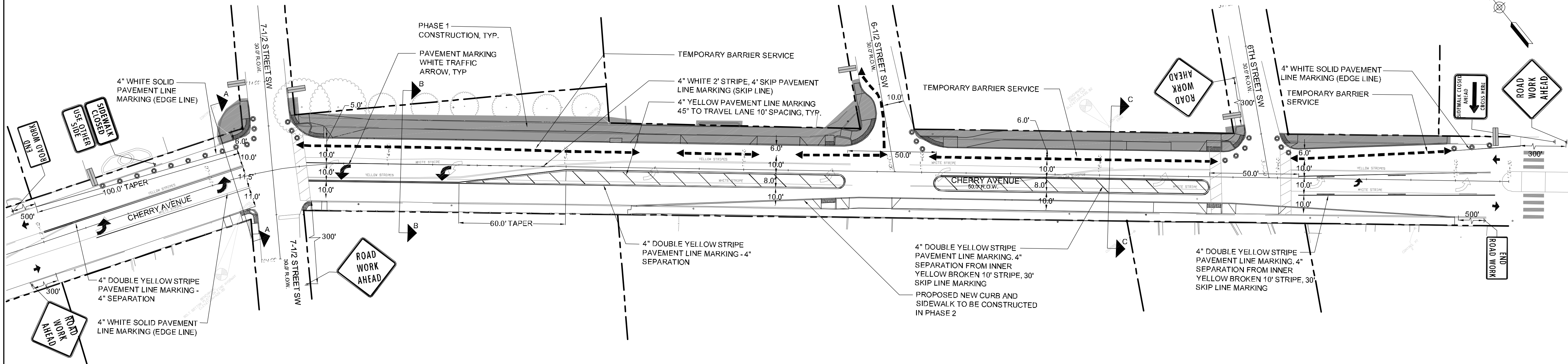
GENERAL NOTES &
SEQUENCE OF
CONSTRUCTION
DRAWING NUMBER

C1.0

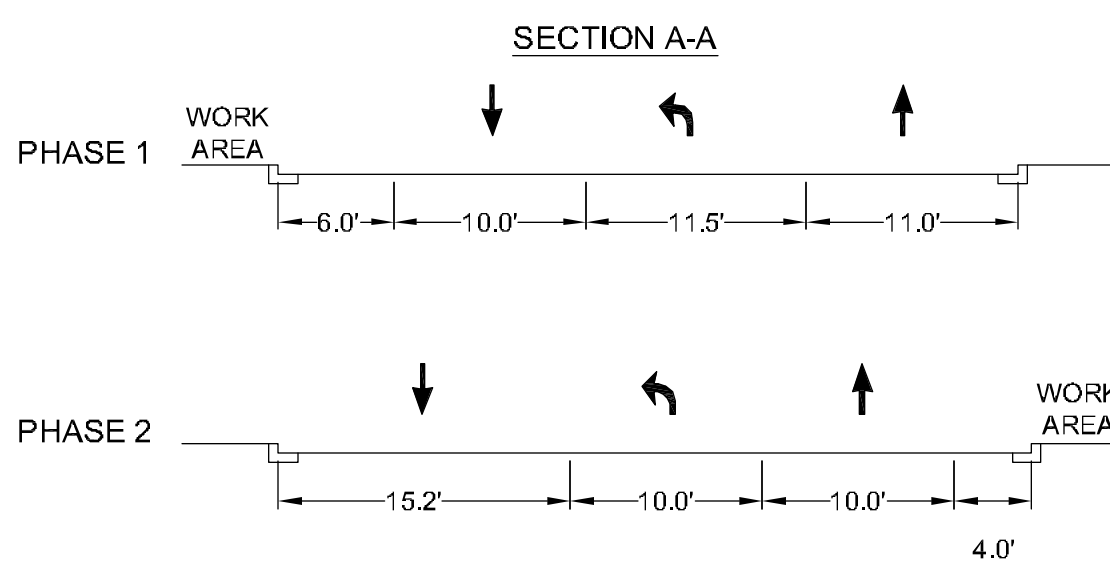
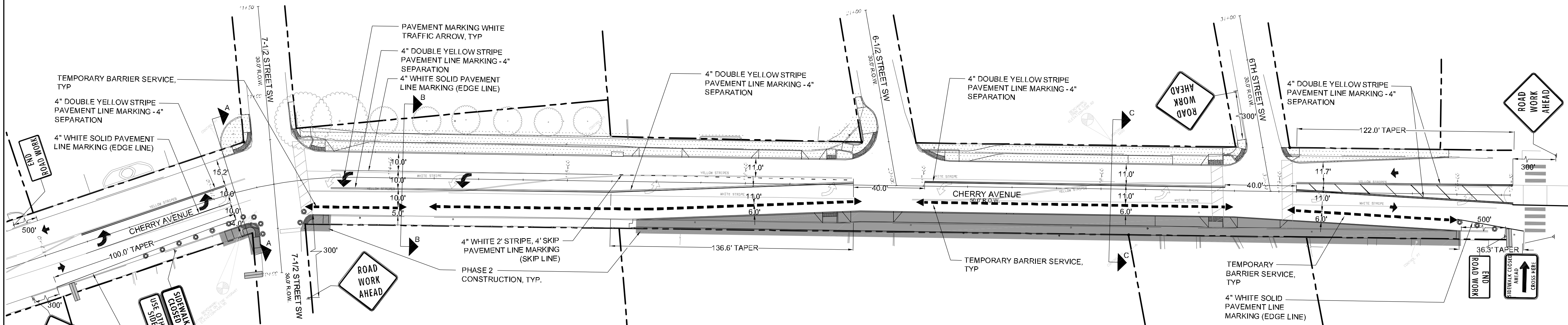
SHEET NUMBER

02 OF 22

SUGGESTED SEQUENCE OF CONSTRUCTION - PHASE 1



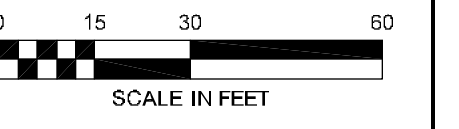
SUGGESTED SEQUENCE OF CONSTRUCTION - PHASE 2



- LEGEND:
- PROPOSED CONSTRUCTION FOR PHASE
 - WORK COMPLETED IN A PRIOR PHASE
 - TEMPORARY BARRIER SERVICE
 - TRAFFIC BARREL
 - IMPACT ATTENUATOR
 - TRAFFIC TRAVEL DIRECTION
 - TYPE III BARRIER

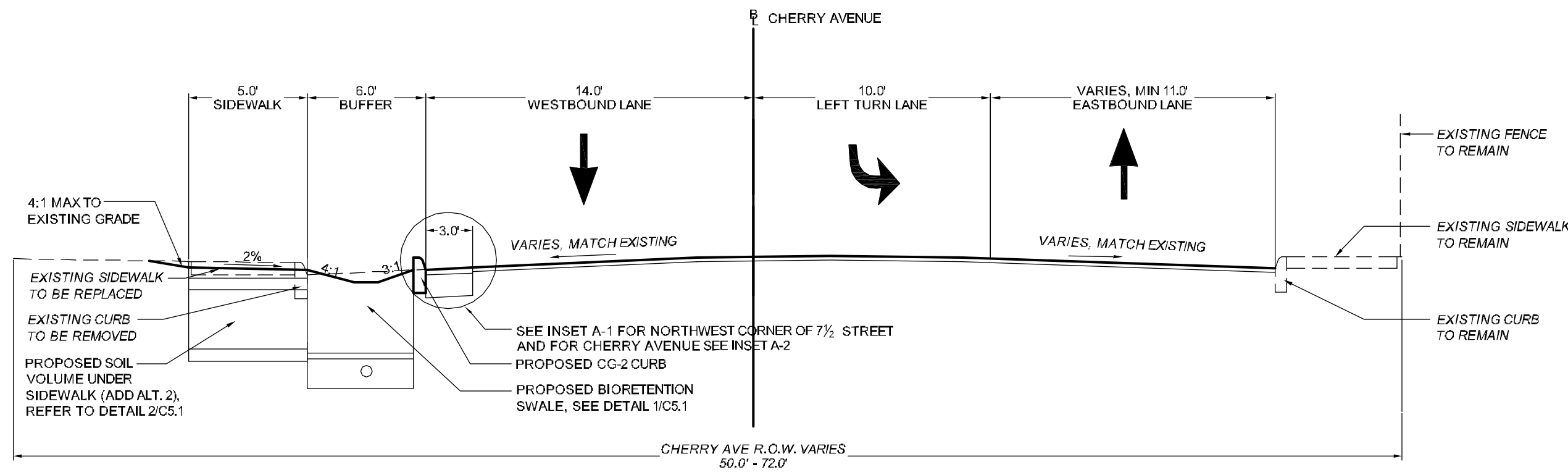
NOTE:
 1. ALL EXISTING PAVEMENT MARKINGS TO BE ERADICATED PRIOR TO CONSTRUCTION
 2. ALL PROPOSED TEMPORARY PAVEMENT MARKINGS ARE VDOT TYPE F

CHERRY AVENUE
 7-1/2 STREET SW TO 6TH STREET SW
 CHARLOTTEVILLE, VA



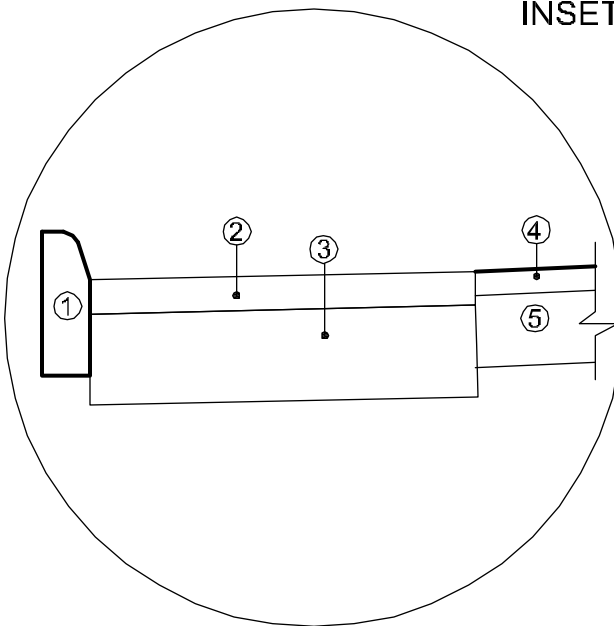
PREPARED: EL/JD/MK
 CHECKED: EM/MAB
 DATE: 04/28/14
 REV 1 -
 REV 2 -
 REV 3 -
 SHEET NAME: GENERAL NOTES AND SUGGESTED SEQUENCE OF CONSTRUCTION
 DRAWING NUMBER: **C1.1**
 SHEET NUMBER: **03** OF **22**

CHERRY AVENUE
 7-1/2 STREET SW TO 6TH STREET SW
 CHARLOTTESVILLE, VA



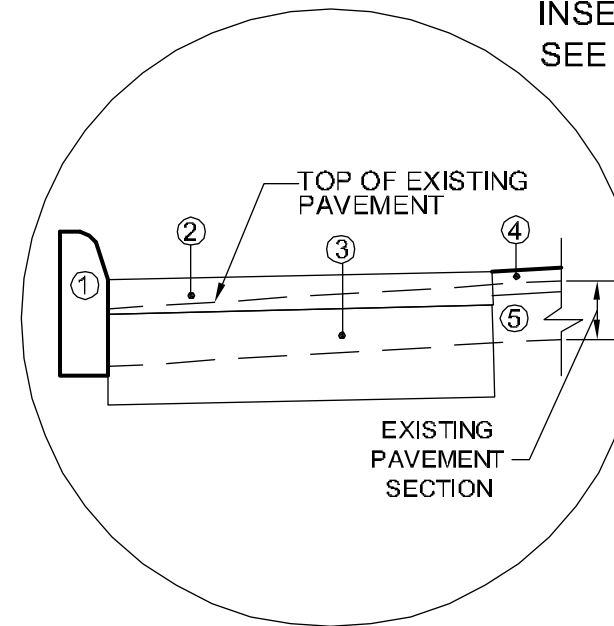
TYPICAL SECTION
 STA. 113+65 TO 115+40
 SCALE: 1" = 5'-0"

INSET A-1, SEE DETAIL 1/C5.0

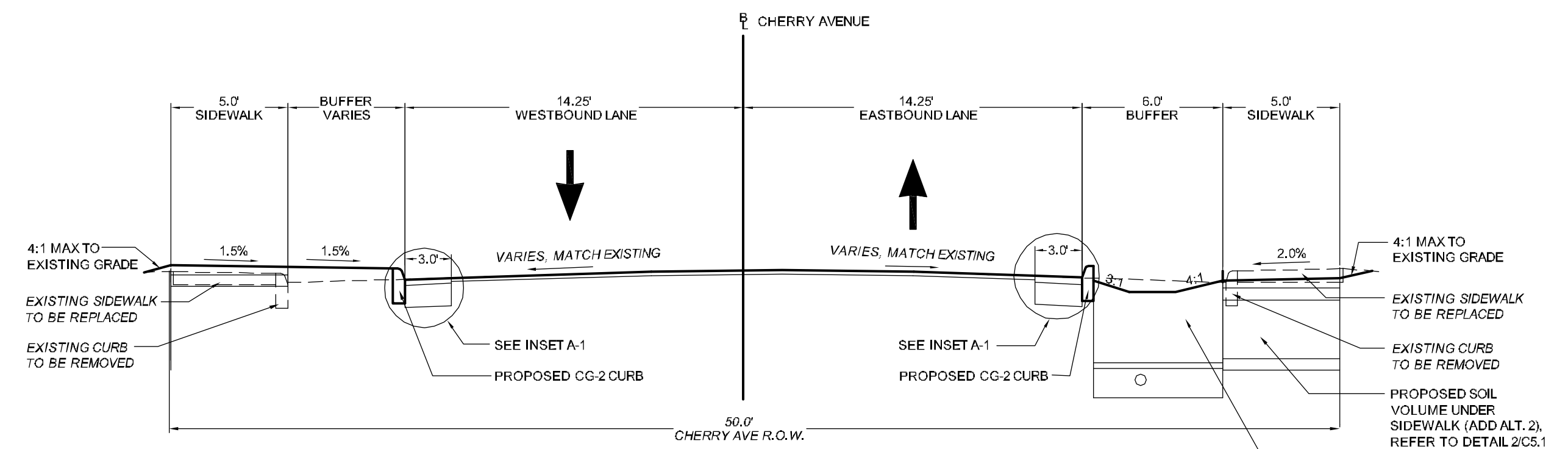


- ① STANDARD CURB FROM THE CITY OF CHARLOTTESVILLE DETAIL CG-2
- ② 3" MINIMUM VDOT SM-9.5 OR MATCH EXISTING PAVEMENT, WHICHEVER IS GREATER.
- ③ 8" MINIMUM VDOT #21A COMPACTED AGGREGATE OR MATCH EXISTING, WHICHEVER IS GREATER.
- ④ MILLING AND OVERLAY OF EXISTING PAVEMENT, DEPTH VARIES, 2" TYPICAL VDOT SM-9.5D (ADD ALT. 1)
- ⑤ EXISTING PAVEMENT SECTION

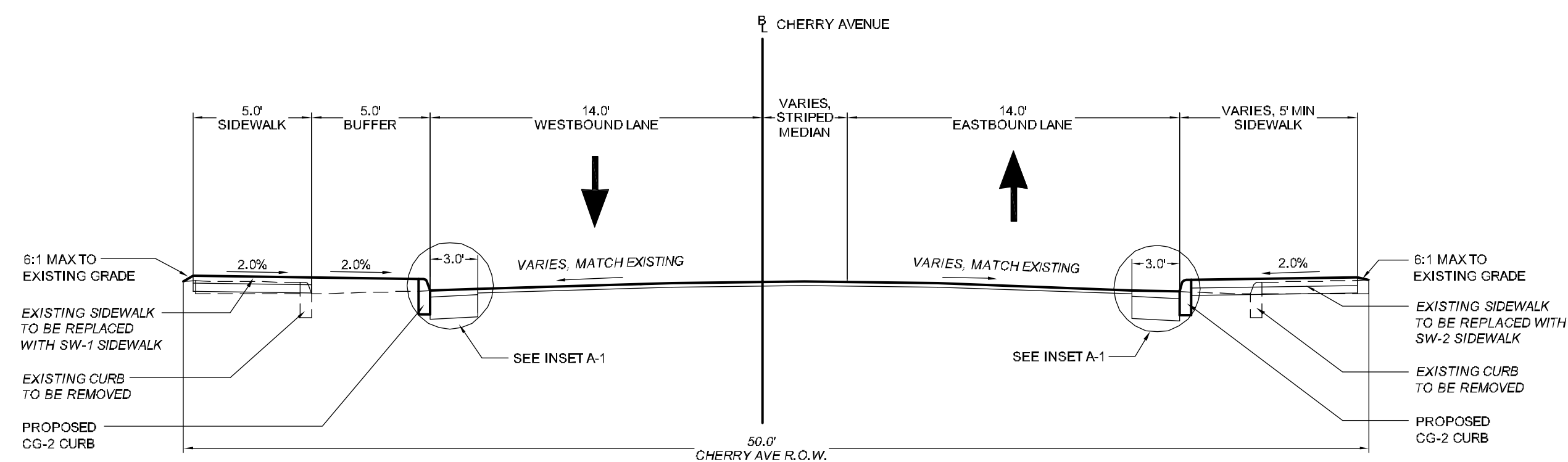
INSET A-1, VARIABLE DEPTH OVERLAY
 SEE DETAIL 1/C5.0



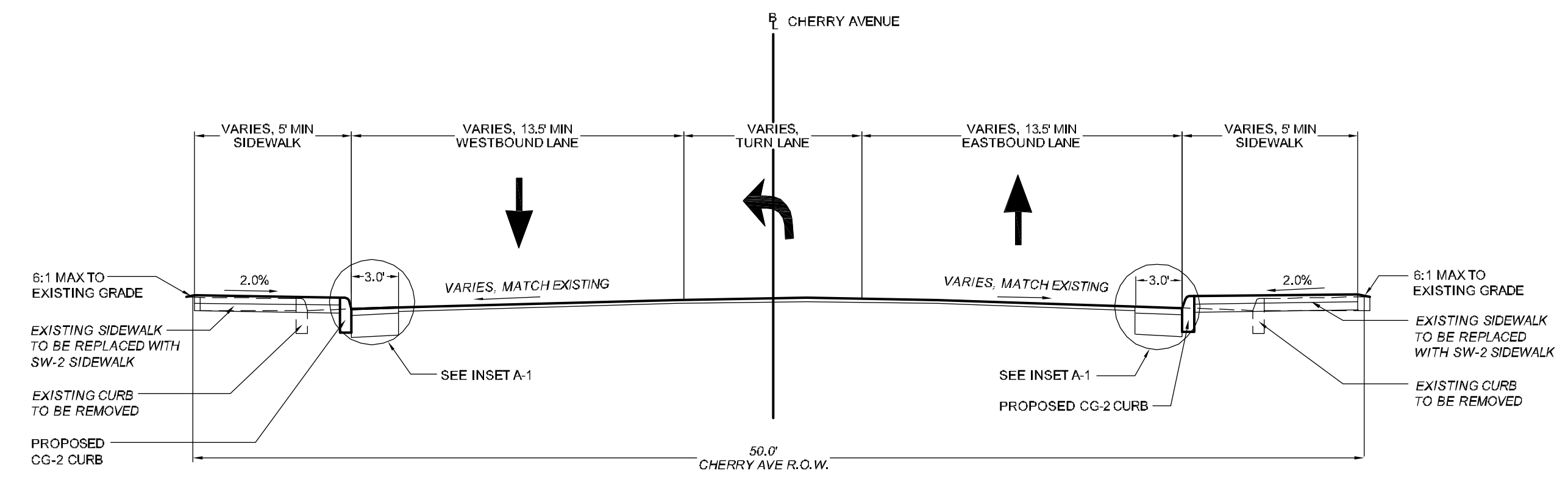
- ① STANDARD CURB FROM THE CITY OF CHARLOTTESVILLE DETAIL CG-2
- ② 3" MINIMUM VDOT SM-9.5 OR MATCH EXISTING PAVEMENT, WHICHEVER IS GREATER.
- ③ 8" MINIMUM VDOT #21A COMPACTED AGGREGATE OR MATCH EXISTING, WHICHEVER IS GREATER.
- ④ MILLING AND OVERLAY OF EXISTING PAVEMENT, DEPTH VARIES, 2" TYPICAL VDOT SM-9.5D (ADD ALT. 1)
- ⑤ EXISTING PAVEMENT SECTION



TYPICAL SECTION
 STA. 116+75 TO 118+40
 SCALE: 1" = 5'-0"



TYPICAL SECTION
 STA. 115+40 TO 116+75
 SCALE: 1" = 5'-0"



TYPICAL SECTION
 STA. 118+40 TO 120+20
 SCALE: 1" = 5'-0"

PREPARED: EL/JD/MK
 CHECKED: EM/MAB
 DATE: 04/28/14
 REV 1 -
 REV 2 -
 REV 3 -
 SHEET NAME: TYPICAL SECTIONS

DRAWING NUMBER: **C2.0**

SHEET NUMBER: 04 OF 22

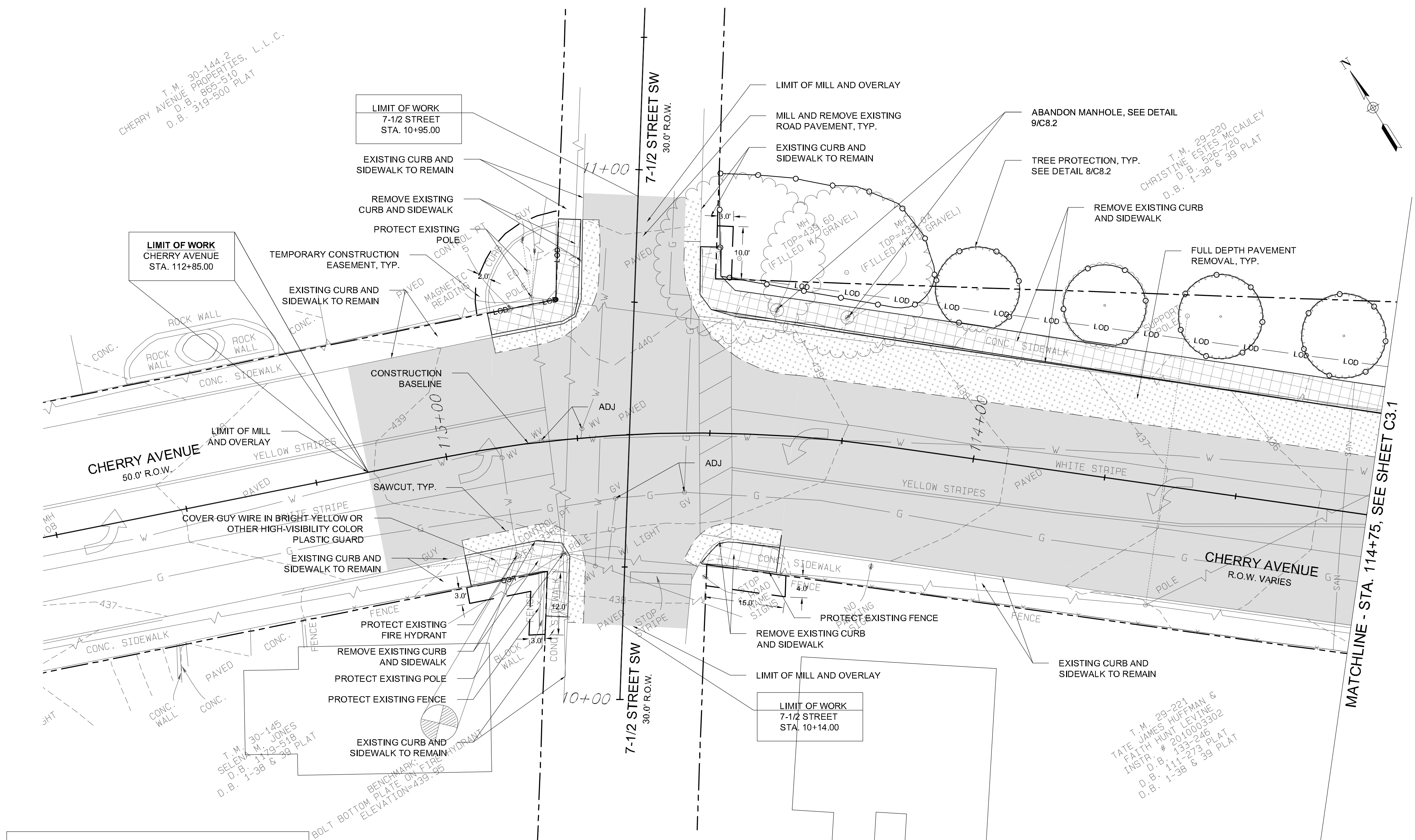
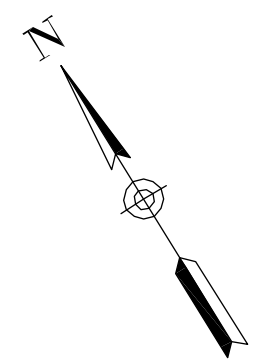
T.M. 30-144.2
 CHERRY AVENUE PROPERTIES, L.L.C.
 D.B. 865-510
 D.B. 319-500 PLAT

T.M. 29-220
 CHRISTINE ESTES MCCAULEY
 D.B. 526-720
 D.B. 1-38 & 39 PLAT

T.M. 29-221
 TATE JAMES HUFFMAN &
 FAITH HUNT LEVINE
 INSTR. # 2010003302
 D.B. 133-246
 D.B. 111-273 PLAT
 D.B. 1-38 & 39 PLAT

T.M. 30-145
 SELENA M. JONES
 D.B. 179-518
 D.B. 1-38 & 39 PLAT

BENCHMARK
 BOLT BOTTOM PLATE ON FIRE HYDRANT
 ELEVATION=439.95



LEGEND

- SAWCUT
- SF --- TEMPORARY SILT FENCE, SEE DETAIL 7/C8.1
- LOD --- LIMIT OF DISTURBANCE
- TEMPORARY CONSTRUCTION EASEMENT
- --- TREE PROTECTION FENCE
- ▨ EXISTING CONCRETE TO BE REMOVED
- MILL EXISTING ROAD PAVEMENT, ADD ALTERNATE 1
- ⊕ FULL DEPTH PAVEMENT REMOVAL

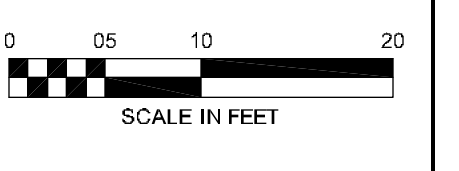
NOTE:

1. UTILITY POLES TO BE RELOCATED BY OTHERS IN FUTURE PHASE.
2. 2" WATER METERS TO BE RELOCATED BY OTHERS.
3. ALL UTILITY RELOCATIONS TO BE COORDINATED WITH THE CITY OF CHARLOTTESVILLE STORMWATER UTILITY AND UTILITIES ENGINEER, RESPECTIVELY.

TEMPORARY CONSTRUCTION EASEMENT RIGHT-OF-WAY DATA

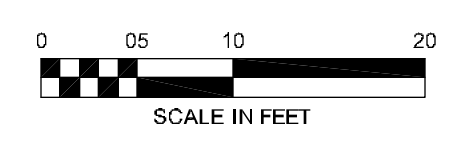
PARCEL	LANDOWNER	SHEET NO.	TEMPORARY SF TOTAL
T.M. 30-144.2	CHERRY AVENUE PROPERTIES, L.L.C.	C3.0	218 SF
T.M. 29-220	CHRISTINE ESTES MCCAULEY	C3.0	30 SF
T.M. 30-145	SELENA M. JONES	C3.0	71 SF
T.M. 29-221	TATE JAMES HUFFMAN & FAITH HUNT LEVINE	C3.0	61 SF

CHERRY AVENUE
 7-1/2 STREET SW TO 6TH STREET SW
 CHARLOTTESVILLE, VA

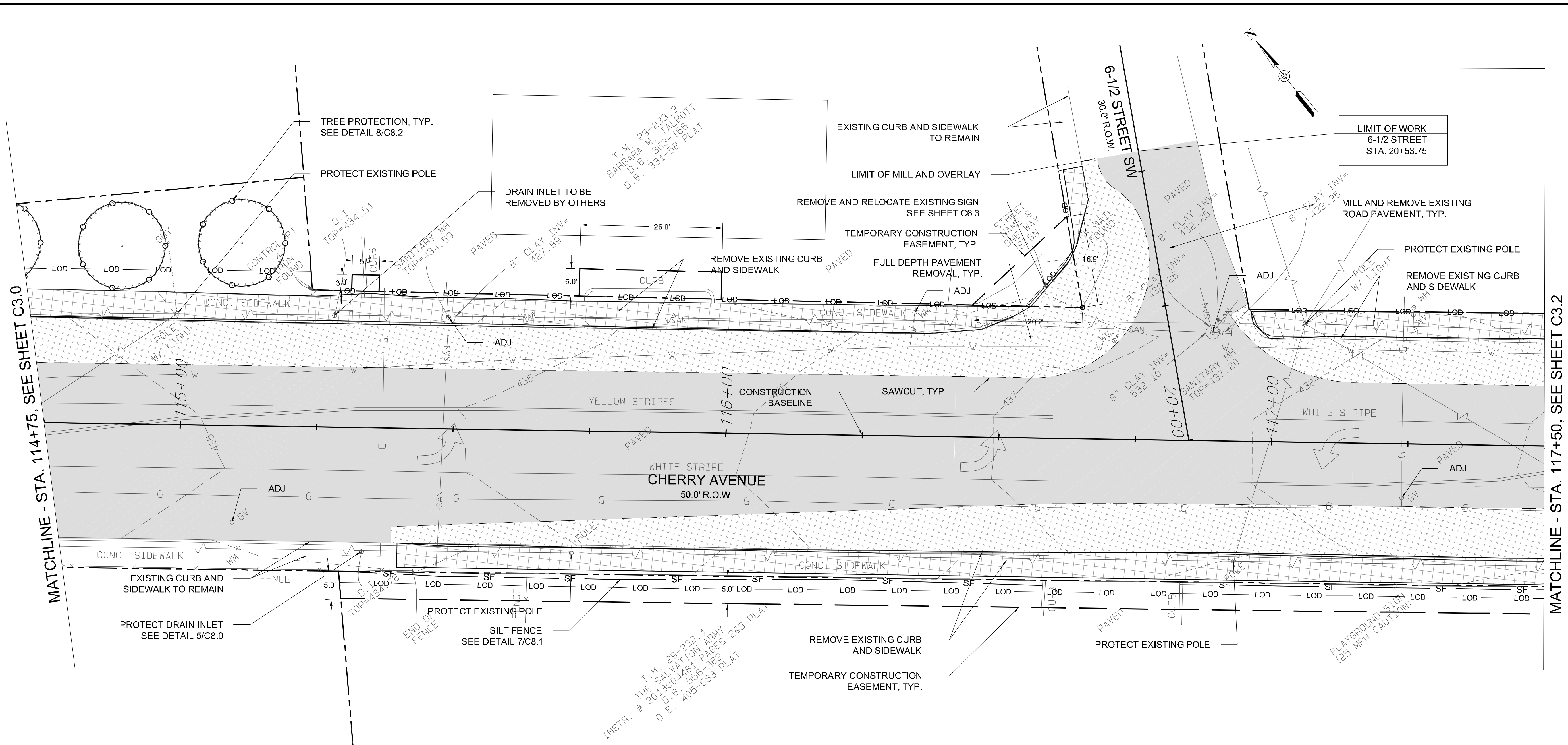


PREPARED: ELJ/D/MK
 CHECKED: EM/MAB
 DATE: 04/28/14
 REV. 1 -
 REV. 2 -
 REV. 3 -
 SHEET NAME: DEMOLITION AND EROSION AND SEDIMENT CONTROL PLANS
 DRAWING NUMBER: **C3.0**
 SHEET NUMBER: 05 OF 22

CHERRY AVENUE
 7-1/2 STREET SW TO 6TH STREET SW
 CHARLOTTESVILLE, VA



PREPARED: EL/JD/MK
 CHECKED: EM/MAB
 DATE: 04/28/14
 REV. 1 -
 REV. 2 -
 REV. 3 -
 SHEET NAME: DEMOLITION AND EROSION AND SEDIMENT CONTROL PLANS
 DRAWING NUMBER: **C3.1**
 SHEET NUMBER: 06 OF 22



MATCHLINE - STA. 114+75, SEE SHEET C3.0

MATCHLINE - STA. 117+50, SEE SHEET C3.2

LEGEND

- SAWCUT
- SF — TEMPORARY SILT FENCE, SEE DETAIL 7/C8.1
- LOD — LIMIT OF DISTURBANCE
- TEMPORARY CONSTRUCTION EASEMENT
- — TREE PROTECTION FENCE
- ▨ — EXISTING CONCRETE TO BE REMOVED
- — MILL EXISTING ROAD PAVEMENT, ADD ALTERNATE 1
- — FULL DEPTH PAVEMENT REMOVAL

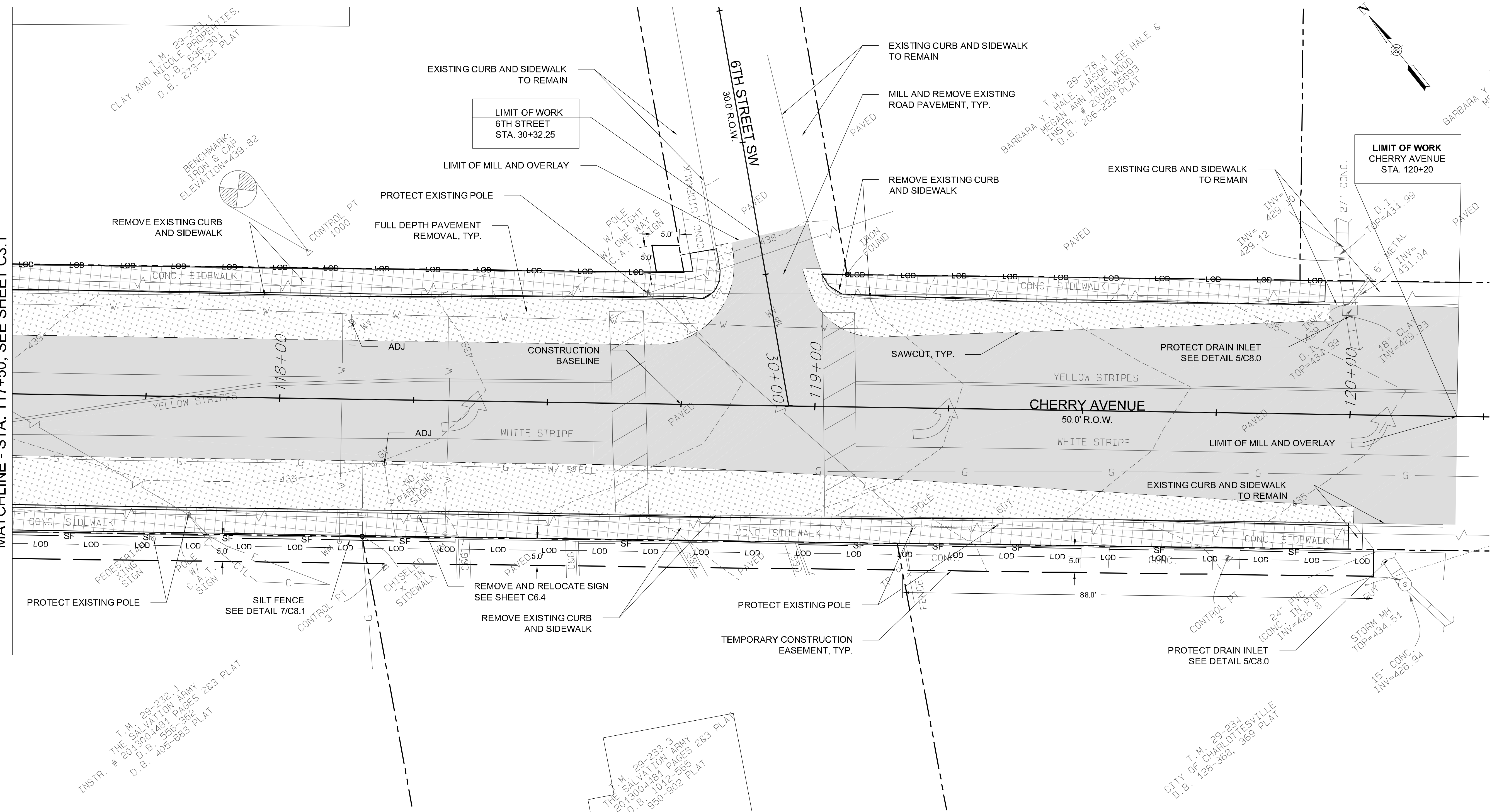
NOTE:

- UTILITY POLES TO BE RELOCATED BY OTHERS IN FUTURE PHASE.
- 2" WATER METERS TO BE RELOCATED BY OTHERS.
- ALL UTILITY RELOCATIONS TO BE COORDINATED WITH THE CITY OF CHARLOTTESVILLE STORMWATER UTILITY AND UTILITIES ENGINEER, RESPECTIVELY.

TEMPORARY CONSTRUCTION EASEMENT RIGHT-OF-WAY DATA

PARCEL	LANDOWNER	SHEET NO.	TEMPORARY SF TOTAL
T.M. 29-233.2	BARBARA M. TALBOTT	C3.1	15 SF
T.M. 29-233.2	BARBARA M. TALBOTT	C3.1	130 SF
T.M. 29-233.2	BARBARA M. TALBOTT	C3.1	167 SF
T.M. 29-232.1	THE SALVATION ARMY	C3.1 - C3.2	1,430 SF

MATCHLINE - STA. 117+50, SEE SHEET C3.1



LEGEND

- SAWCUT
- SF — TEMPORARY SILT FENCE, SEE DETAIL 7/C8.1
- LOD — LIMIT OF DISTURBANCE
- TEMPORARY CONSTRUCTION EASEMENT
- — TREE PROTECTION FENCE
- ▨ — EXISTING CONCRETE TO BE REMOVED
- ▩ — MILL EXISTING ROAD PAVEMENT, ADD ALTERNATE 1
- ▧ — FULL DEPTH PAVEMENT REMOVAL

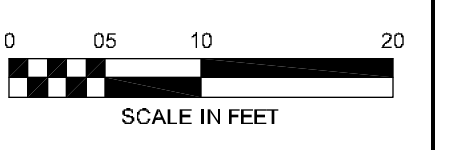
NOTE:

- UTILITY POLES TO BE RELOCATED BY OTHERS IN FUTURE PHASE.
- 2" WATER METERS TO BE RELOCATED BY OTHERS.
- ALL UTILITY RELOCATIONS TO BE COORDINATED WITH THE CITY OF CHARLOTTESVILLE STORMWATER UTILITY AND UTILITIES ENGINEER, RESPECTIVELY.

TEMPORARY CONSTRUCTION EASEMENT RIGHT-OF-WAY DATA

PARCEL	LANDOWNER	SHEET NO.	TEMPORARY SF TOTAL
T.M. 29-232.1	THE SALVATION ARMY	C3.1 - C3.2	1,430 SF
T.M. 29-233.3	THE SALVATION ARMY	C3.2	502 SF
T.M. 29-234	CITY OF CHARLOTTESVILLE	C3.2	492 SF
T.M. 29-233.1	CLAY AND NICOLE PROPERTIES	C3.2	25 SF

CHERRY AVENUE
 7-1/2 STREET SW TO 6TH STREET SW
 CHARLOTTESVILLE, VA



PREPARED: ELJ/D/MK
 CHECKED: EM/MAB

DATE
04/28/14

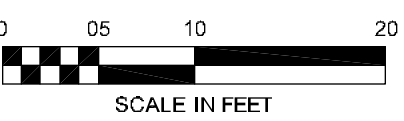
REV 1 -
 REV 2 -
 REV 3 -

SHEET NAME
 DEMOLITION AND EROSION AND SEDIMENT CONTROL PLANS

DRAWING NUMBER
C3.2

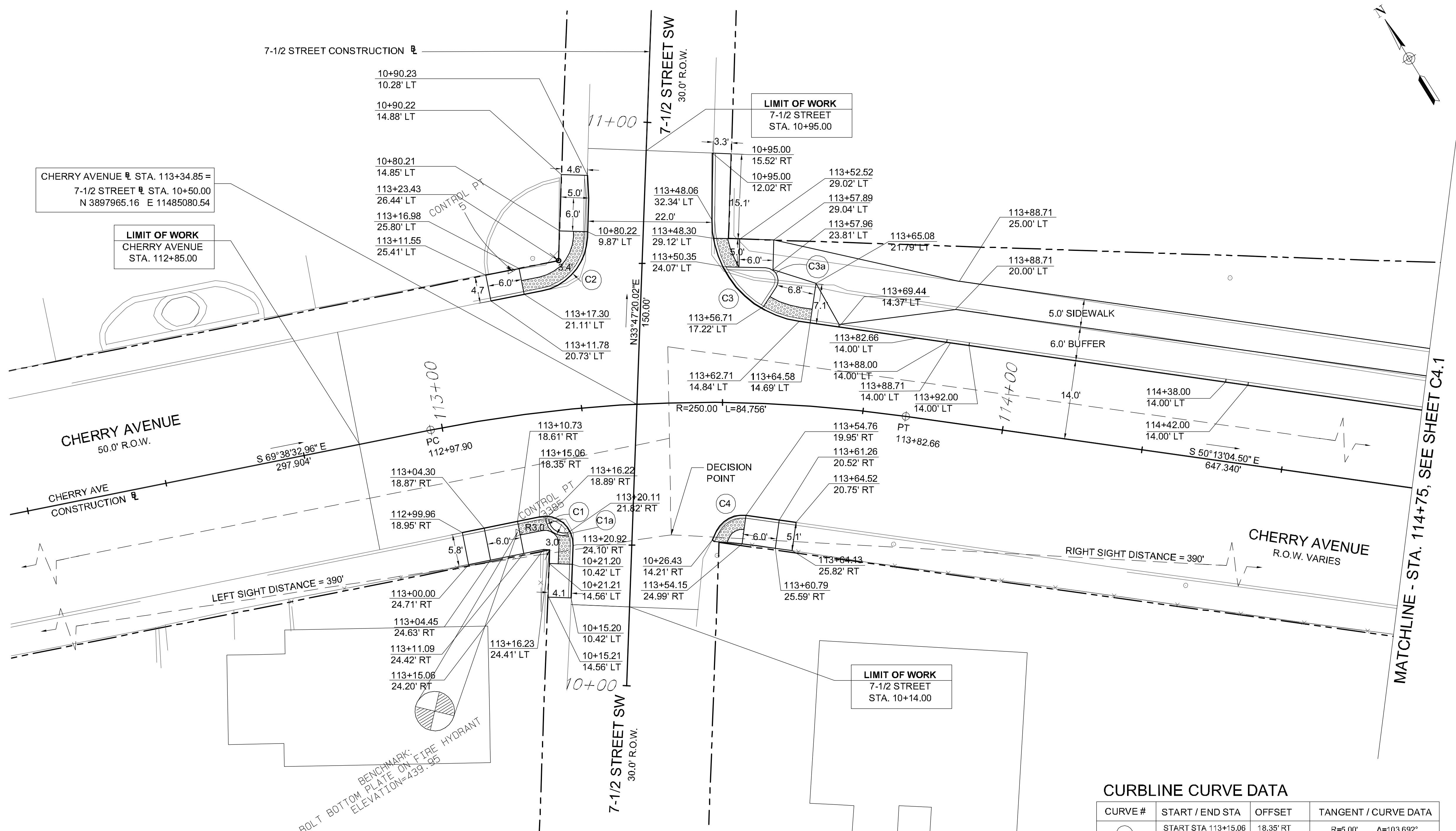
SHEET NUMBER
07 OF **22**

CHERRY AVENUE
 7-1/2 STREET SW TO 6TH STREET SW
 CHARLOTTESVILLE, VA



PREPARED: EL/JDM/K
 CHECKED: EMM/MAB
 DATE
 04/28/14
 REV 1 -
 REV 2 -
 REV 3 -
 SHEET NAME
 GEOMETRIC PLAN

DRAWING NUMBER
C4.0
 SHEET NUMBER
 08 OF 22



CHERRY AVENUE CONSTRUCTION DATA

DESCRIPTION	TANGENT / CURVE DATA	NORTHING	EASTING
STA 110+00	S 69°38'32.96" E L = 157.41'	3898084.16	11484767.67
PC STA 112+97.90	R=250.00' Δ=160.5754° L=84.756' T=42.7885'	3897980.52	11485046.97
PT STA 113+82.66	S 50°13'04.50" E L = 647.34'	3897938.26	11485119.97
STA 120+30.00		3897524.04	11485617.44

7-1/2 STREET CONSTRUCTION DATA

DESCRIPTION	TANGENT / CURVE DATA	NORTHING	EASTING
STA 10+00	N 33°47'20.02" E L = 150.00'	3897923.61	11485052.73
STA 11+50.00		3898048.27	11485136.15

CURBLINE CURVE DATA

CURVE #	START / END STA	OFFSET	TANGENT / CURVE DATA
C1	START STA 113+15.06 END STA 113+20.92	18.35' RT 24.10' RT	R=5.00' Δ=103.692° L=9.049' T=6.36'
C1a	START STA 113+16.22 END STA 113+20.29	18.89' RT 22.35' RT	R=3.00' Δ=75.19° L=3.937' T=2.31'
C2	START STA 113+20.27 END STA 113+28.32	21.37' LT 30.04' LT	R=10.00' Δ=79.694° L=13.386' T=7.91'
C3	START STA 113+48.06 END STA 113+62.71	32.34' LT 14.84' LT	R=18.00' Δ=82.475° L=25.910' T=15.78'
C3a	START STA 113+56.80 END STA 113+58.61	24.06' LT 20.69' LT	R=2.25' Δ=120.518° L=4.733' T=3.94'
C4	START STA 113+49.18 END STA 113+54.76	22.76' RT 19.95' RT	R=5.00' Δ=71.215° L=6.215' T=3.58'

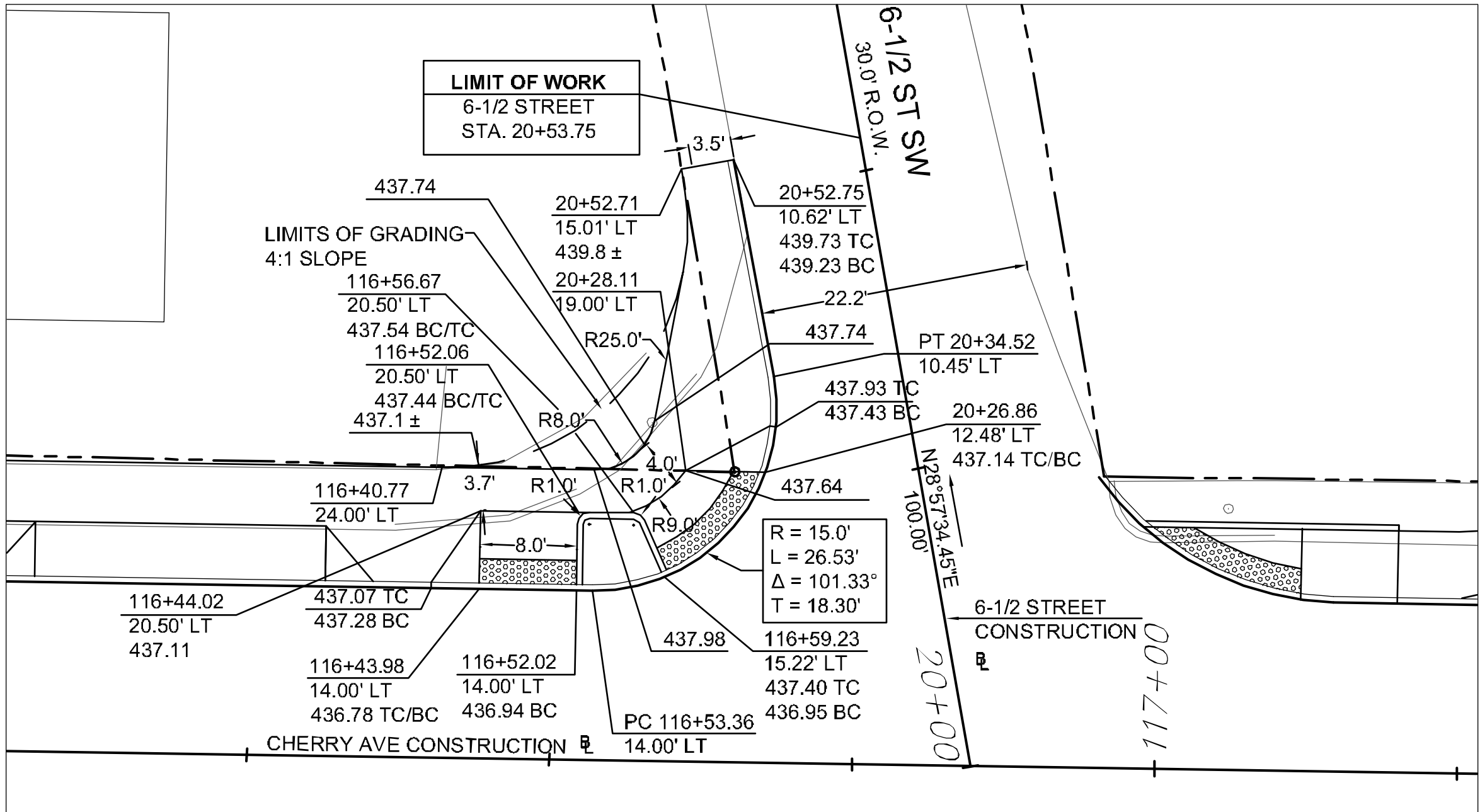
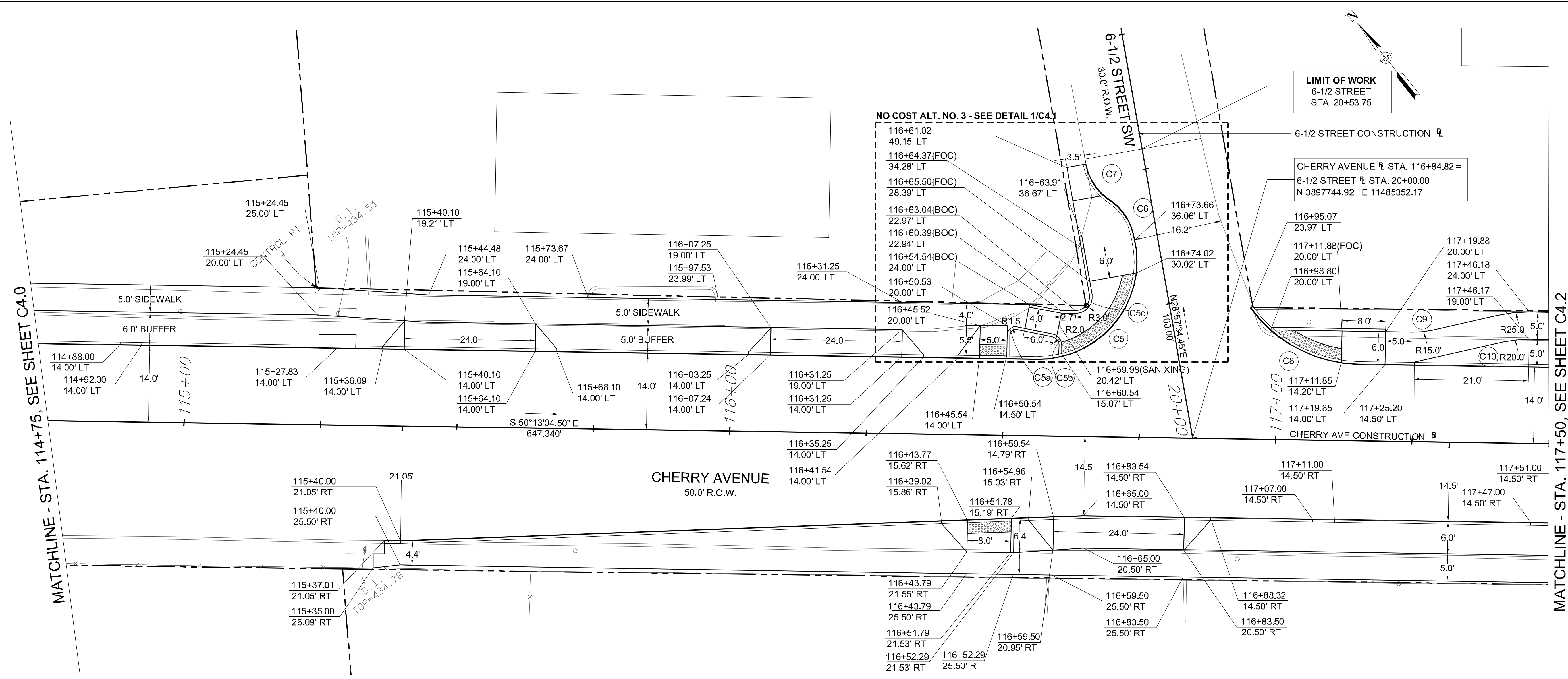
SURVEY CONTROL POINTS

POINT	NORTHING	EASTING	DESCRIPTION	ELEVATION
5	3897997.41	11485073.94	NAIL	
3385	3897957.01	11485050.59	BOLT ON BOTTOM PLATE OF FIRE HYDRANT	439.95

NOTES:

- STATIONS AND OFFSETS SHOWN ARE TO FACE OF CURB OR EDGE OF SIDEWALK UNLESS OTHERWISE NOTED.

CHERRY AVENUE
 7-1/2 STREET SW TO 6TH STREET SW
 CHARLOTTESVILLE, VA



CURBLINE CURVE DATA

CURVE #	START/END STA	OFFSET	TANGENT / CURVE DATA
C5	START STA 116+56.13	14.00' LT	R=18.00' Δ=103.96°
	END STA 116+73.59	36.34' LT	L=32.66' T=23.02'
C5a	START STA 116+50.53	18.13' LT	R=1.50' Δ=100.417°
	END STA 116+52.32	19.83' LT	L=2.629' T=1.80'
C5b	START STA 116+58.89	18.64' LT	R=2.00' Δ=79.726°
	END STA 116+60.54	16.67' LT	L=2.783' T=1.67'
C5c	START STA 116+63.04	22.47' LT	R=3.00' Δ=100.139°
	END STA 116+65.95	26.03' LT	L=5.243' T=3.584'
C6	START STA 116+69.29	43.09' LT	R=10.00' Δ=41.858°
	END STA 116+73.37	37.23' LT	L=7.306' T=3.82'
C7	START STA 116+64.49	49.82' LT	R=10.00' Δ=44.51°
	END STA 116+68.68	43.51' LT	L=7.768' T=4.09'
C8	START STA 116+95.07	23.97' LT	R=25.00' Δ=52.023°
	END STA 117+4.60	14.00' LT	L=22.70' T=12.23'
C9	START STA 117+24.88	20.00' LT	R=15.00' Δ=13.604°
	END STA 117+28.41	20.42' LT	L=3.561' T=1.789'
C10	START STA 117+41.48	18.44' LT	R=20.00' Δ=13.604°
	END STA 117+46.18	19.00' LT	L=4.749' T=2.385'

CHERRY AVENUE CONSTRUCTION DATA

DESCRIPTION	TANGENT / CURVE DATA	NORTHING	EASTING
STA 110+00	S 69°38'32.96" E L = 157.41'	3898084.16	11484767.67
PC STA 112+97.90	R=250.00' Δ=160.5754° L=84.756' T=42.7885'	3897980.52	11485046.97
PT STA 113+82.66	S 50°13'04.50" E L = 647.34'	3897938.26	11485119.97
STA 120+30.00		3897524.04	11485617.44

6-1/2 STREET CONSTRUCTION DATA

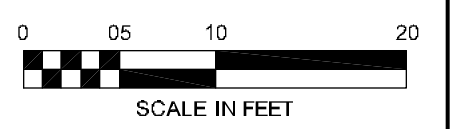
DESCRIPTION	TANGENT / CURVE DATA	NORTHING	EASTING
STA 20+00	N 28°57'34.45" E L = 100.00'	3897744.92	11485352.17
STA 21+00.00		3897832.41	11485400.59

SURVEY CONTROL POINTS

POINT	NORTHING	EASTING	DESCRIPTION
4	3897867.15	11485244.48	IRON FOUND

NOTES:
 1. STATIONS AND OFFSETS SHOWN ARE TO FACE OF CURB OR EDGE OF SIDEWALK UNLESS OTHERWISE NOTED.

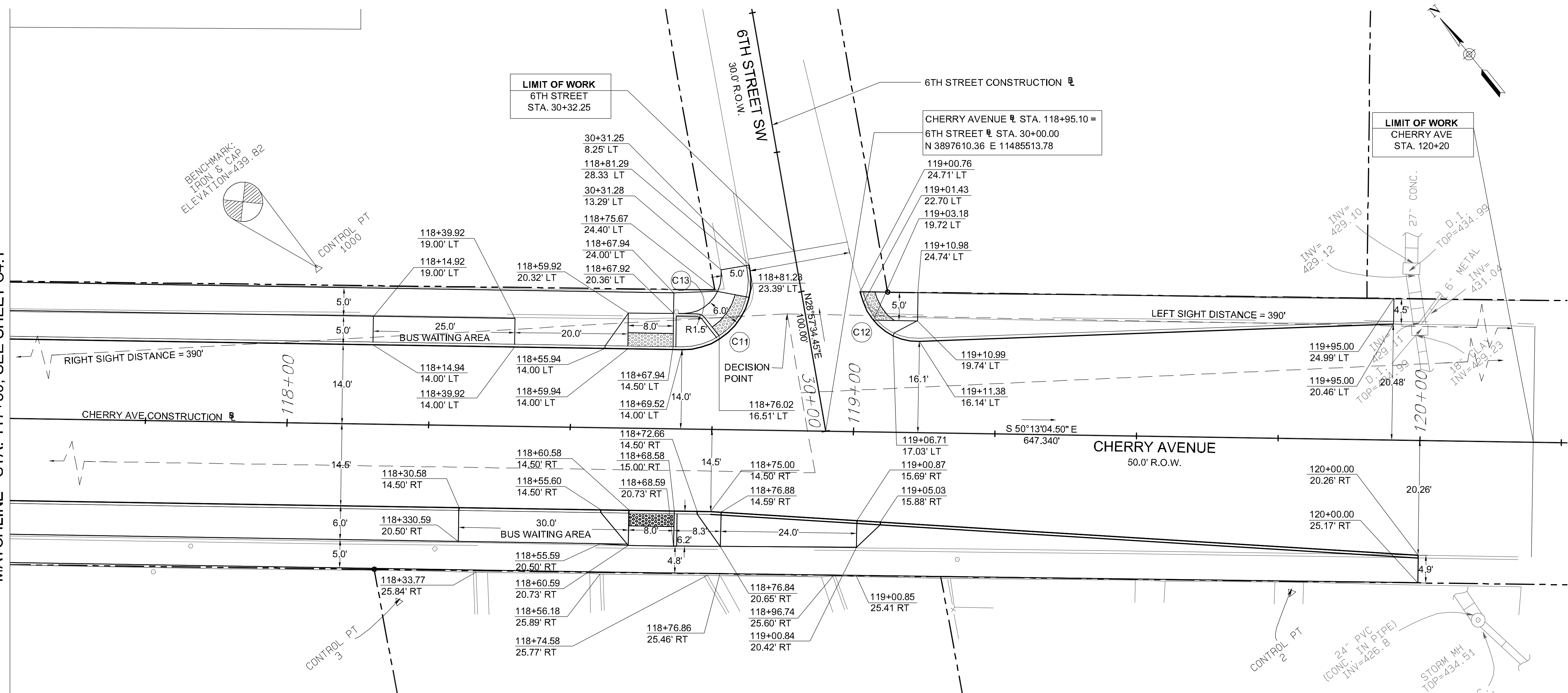
NO COST ALT. NO. 3 - NW CORNER OF 6-1/2 ST. AND CHERRY AVE. INTERSECTION
 SCALE: 1" = 10'-0"



PREPARED: EL/JDM/K
 CHECKED: EMM/MAB
 DATE: 04/28/14
 REV. 1 -
 REV. 2 -
 REV. 3 -
 SHEET NAME: GEOMETRIC PLAN

DRAWING NUMBER: **C4.1**
 SHEET NUMBER: **09** OF **22**

MATCHLINE - STA. 117+50, SEE SHEET C4.1



CURBLINE CURVE DATA

CURVE #	START/END STA	OFFSET	TANGENT / CURVE DATA
C11	START STA 118+69.52	14.00' LT	R=12.00' Δ=101.197°
	END STA 118+81.29	28.33' LT	L=21.195' T=14.61'
C12	START STA 119+01.43	22.80' LT	R=10.00' Δ=73.524°
	END STA 119+11.38	16.14' LT	L=12.832' T=7.47'
C13	START STA 118+72.16	20.37' LT	R=1.50' Δ=51.09°
	END STA 118+73.33	19.82' LT	L=1.338' T=0.717'

CHERRY AVENUE CONSTRUCTION DATA

DESCRIPTION	TANGENT / CURVE DATA	NORTHING	EASTING
STA 110+00	S 69°38'32.96" E L = 157.41'	3898084.16	11484767.67
PC STA 112+97.90	R=250.00' Δ=160.5754° L=84.756' T=42.7885'	3897980.52	11485046.97
PT STA 113+82.66		3897938.26	11485119.97
STA 120+30.00	S 50°13'04.50" E L = 647.34'	3897524.04	11485617.44

6TH STREET CONSTRUCTION DATA

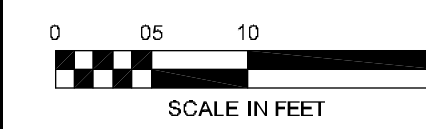
DESCRIPTION	TANGENT / CURVE DATA	NORTHING	EASTING
STA 30+00	N 28°57'34.45" E L = 100.00'	3897610.36	11485513.78
STA 31+00.00		3897697.86	11485562.19

SURVEY CONTROL POINTS

POINT	NORTHING	EASTING	DESCRIPTION	ELEVATION
2	3897536.78	11485559.81	IRON AND CAP	
3	3897634.45	11485436.15	NAIL	
1000	3897689.22	11485462.04	IRON AND CAP	439.82

NOTES:

- STATIONS AND OFFSETS SHOWN ARE TO FACE OF CURB OR EDGE OF SIDEWALK UNLESS OTHERWISE NOTED.



PREPARED: EL/JDMK
CHECKED: EMMAB
DATE: 04/28/14
REV 1 -
REV 2 -
REV 3 -
SHEET NAME: GEOMETRIC PLAN

DRAWING NUMBER: **C4.2**
SHEET NUMBER: 10 OF 22

T.M. 30-144.2
 CHERRY AVENUE PROPERTIES, L.L.C.
 D.B. 855-510
 D.B. 319-500 PLAT

T.M. 29-220
 CHRISTINE ESTES MCCAULEY
 D.B. 1926-720
 D.B. 1-38 & 39 PLAT

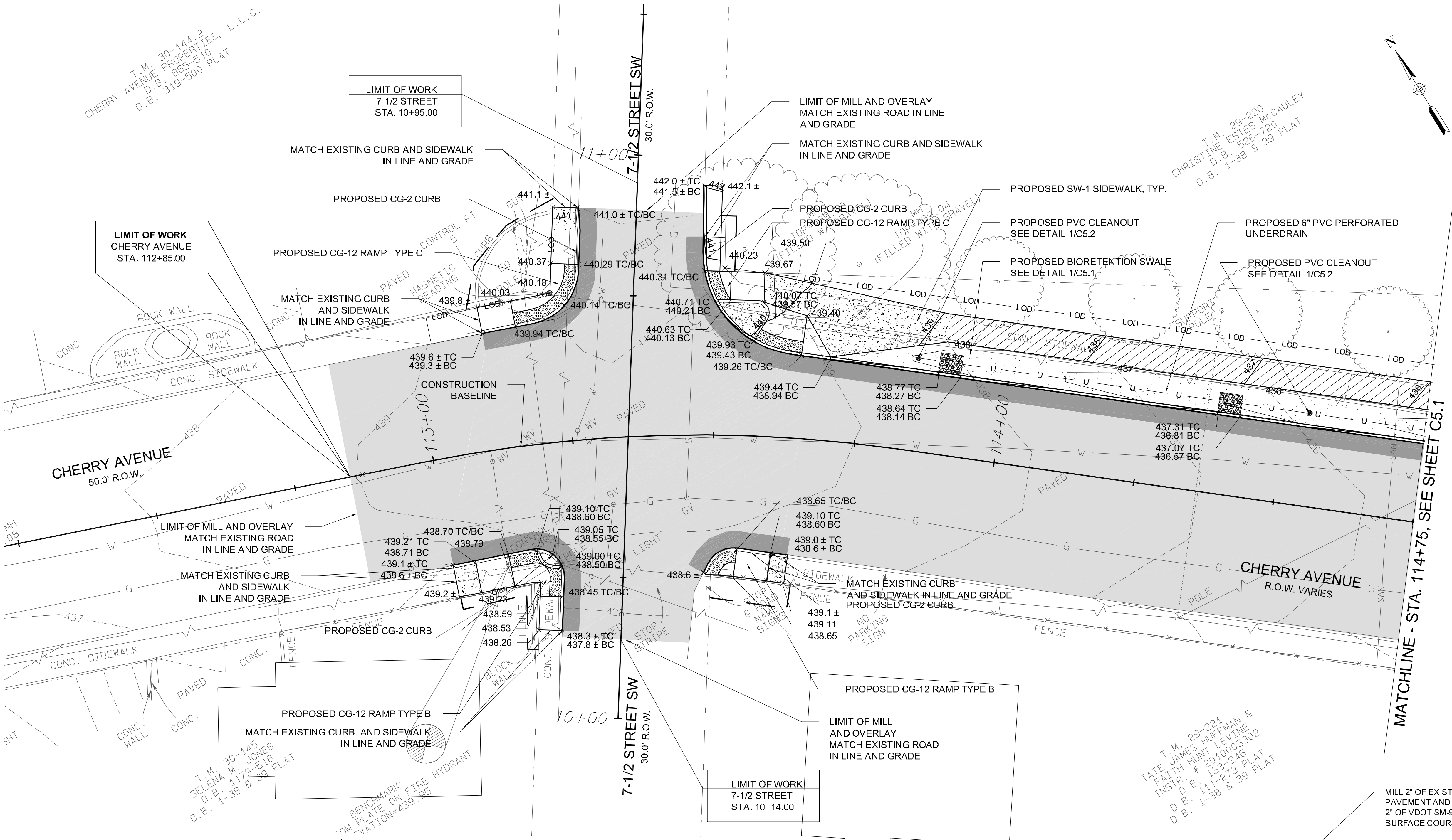
T.M. 30-145
 SELENA M. JONES
 D.B. 1129-51B
 D.B. 1-38 & 39 PLAT

T.M. 29-221
 TATE JAMES HUFFMAN &
 FAITH HUNT LEVINE
 INSTR. # 2010003302
 D.B. 133-246
 D.B. 114-273 PLAT
 D.B. 1-38 & 39 PLAT

LIMIT OF WORK
 7-1/2 STREET
 STA. 10+95.00

LIMIT OF WORK
 CHERRY AVENUE
 STA. 112+85.00

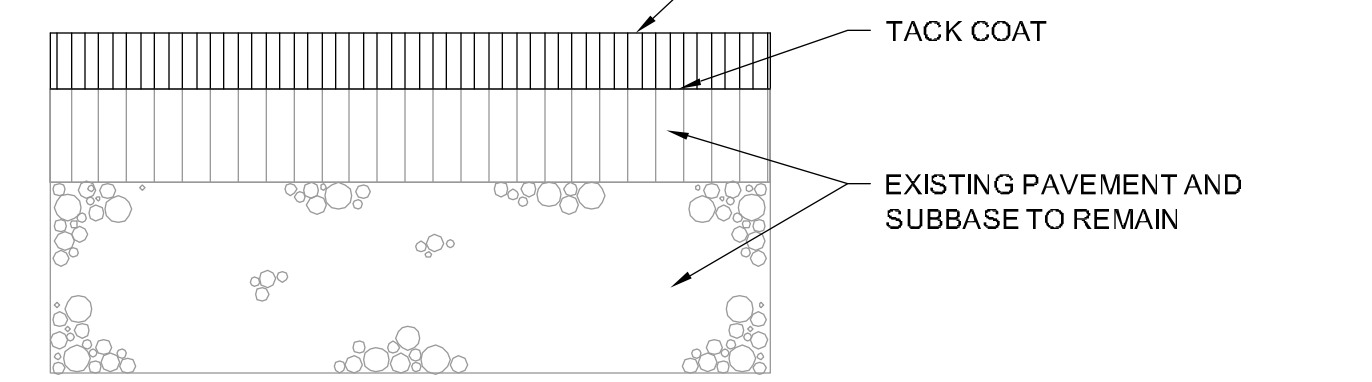
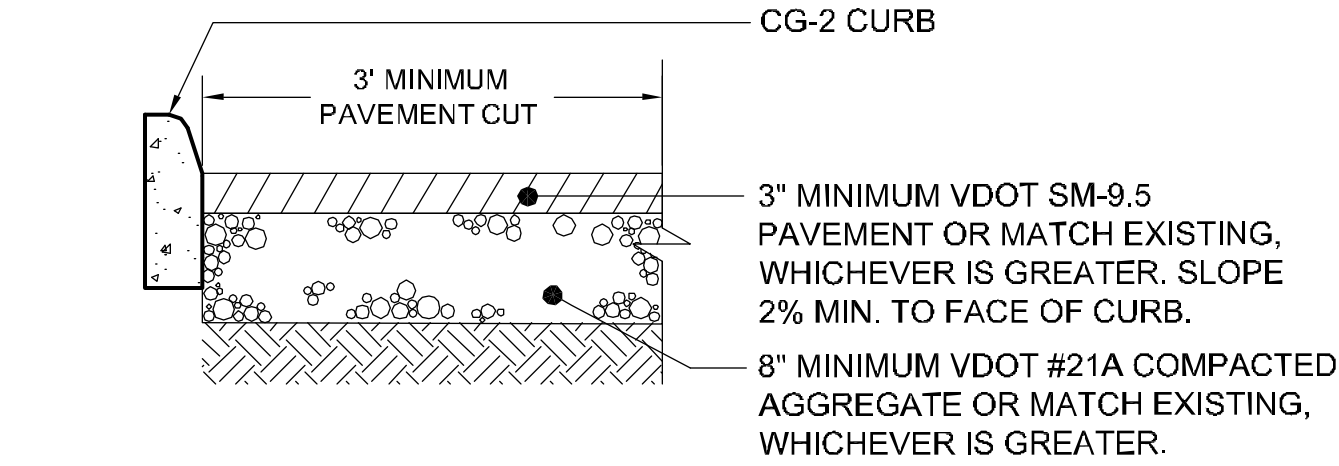
LIMIT OF WORK
 7-1/2 STREET
 STA. 10+14.00



LEGEND

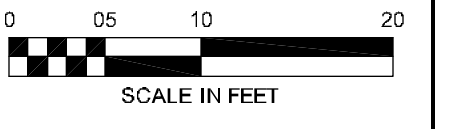
- TEMPORARY CONSTRUCTION EASEMENT, SEE SHEET C3.0 - C3.2 FOR AREAS
- LOD — LIMIT OF DISTURBANCE
- U — 6" PVC PERFORATED UNDERDRAIN
- ROLL TOP CURB, SEE DETAIL 2, SHEET C8.0
- DETECTABLE WARNING PANEL, SEE DETAIL 6/C8.0
- CONCRETE SIDEWALK, SEE DETAIL 3/C8.0
- MILLING AND OVERLAY PAVEMENT, ADD ALT. 1, SEE DETAIL 2/C5.0
- MINIMUM PAVEMENT PATCH, SEE DETAIL 1/C5.0
- SOIL VOLUME UNDER PROPOSED SIDEWALK, ADD ALT 2., SEE DETAIL 2/C5.1
- BIORETENTION SWALE, SEE DETAIL 1/C5.1

- NOTES:**
- FOR ALL CURB RAMPS, SEE DETAIL 6/C8.0
 - FOR ALL DRIVEWAYS, SEE DETAIL 1/C8.0
 - FOR PROPOSED CURB, SEE DETAIL 4/C8.0



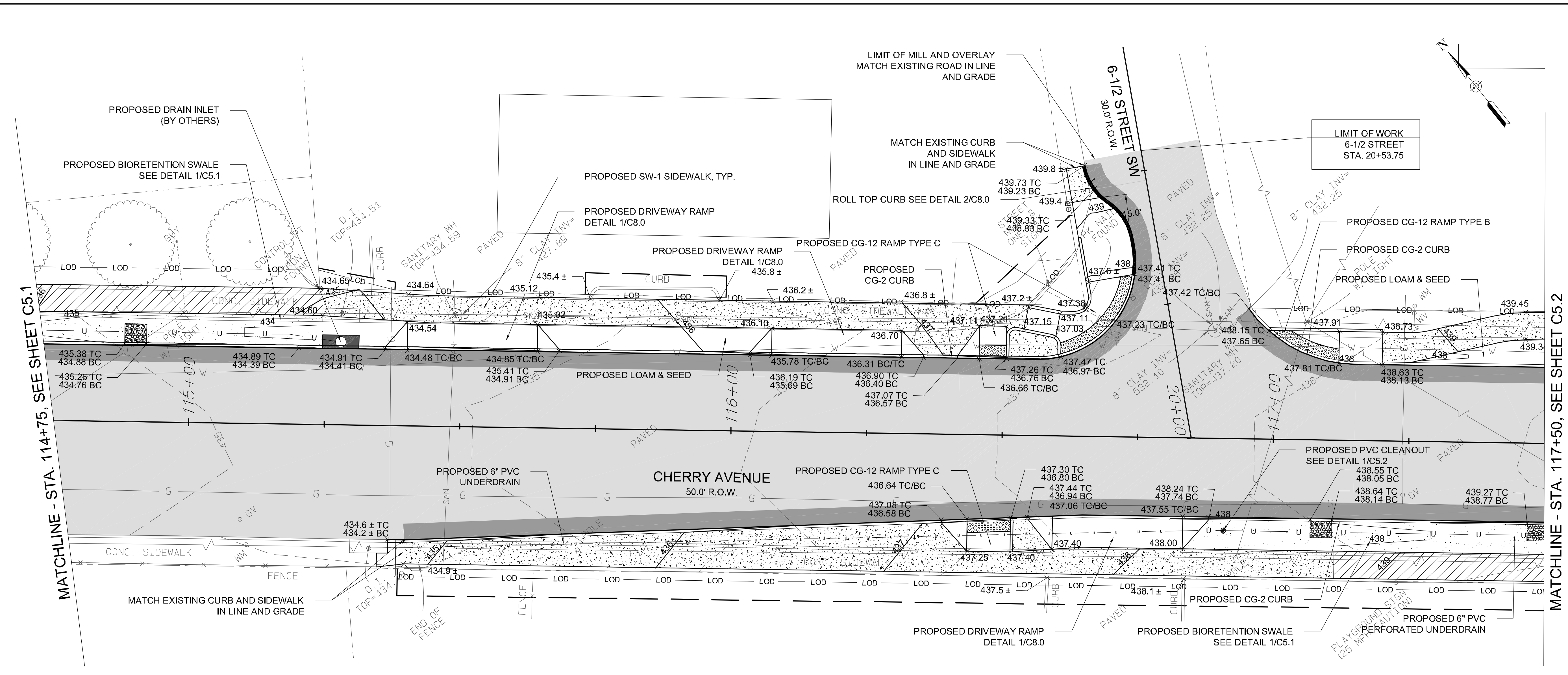
NOTE:
 1. CLEAN AREA OF ANY LOOSE DEBRIS. AREA SHOULD BE FREE OF DUST, DIRT, AND THOROUGHLY DRIED.

CHERRY AVENUE
 7-1/2 STREET SW TO 6TH STREET SW
 CHARLOTTEVILLE, VA



PREPARED: EL/JD/MK
 CHECKED: EM/MAB
 DATE: 04/28/14
 REV. 1 -
 REV. 2 -
 REV. 3 -
 SHEET NAME: PAVING AND GRADING PLAN
 DRAWING NUMBER: C5.0
 SHEET NUMBER: 11 OF 22

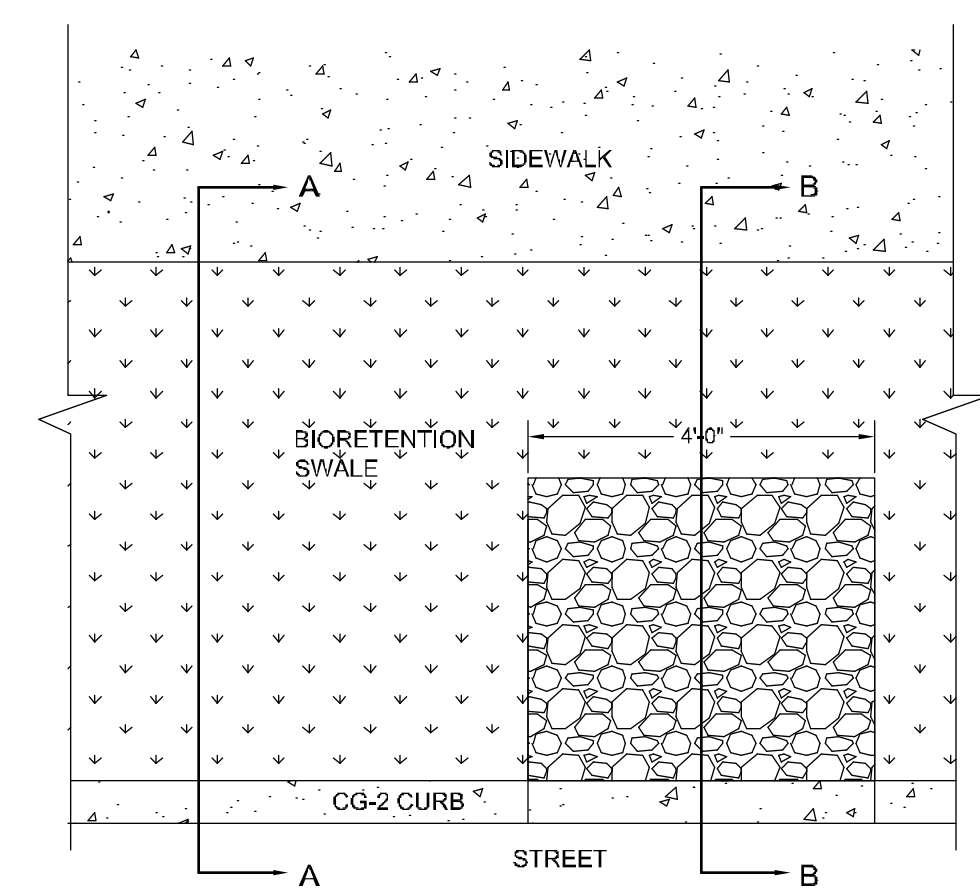
CHERRY AVENUE
 7-1/2 STREET SW TO 6TH STREET SW
 CHARLOTTEVILLE, VA



- NOTES:**
1. FOR ALL CURB RAMPS, SEE DETAIL 6/C8.0
 2. FOR ALL DRIVEWAYS, SEE DETAIL 1/C8.0
 3. FOR PROPOSED CURB, SEE DETAIL 4/C8.0

LEGEND

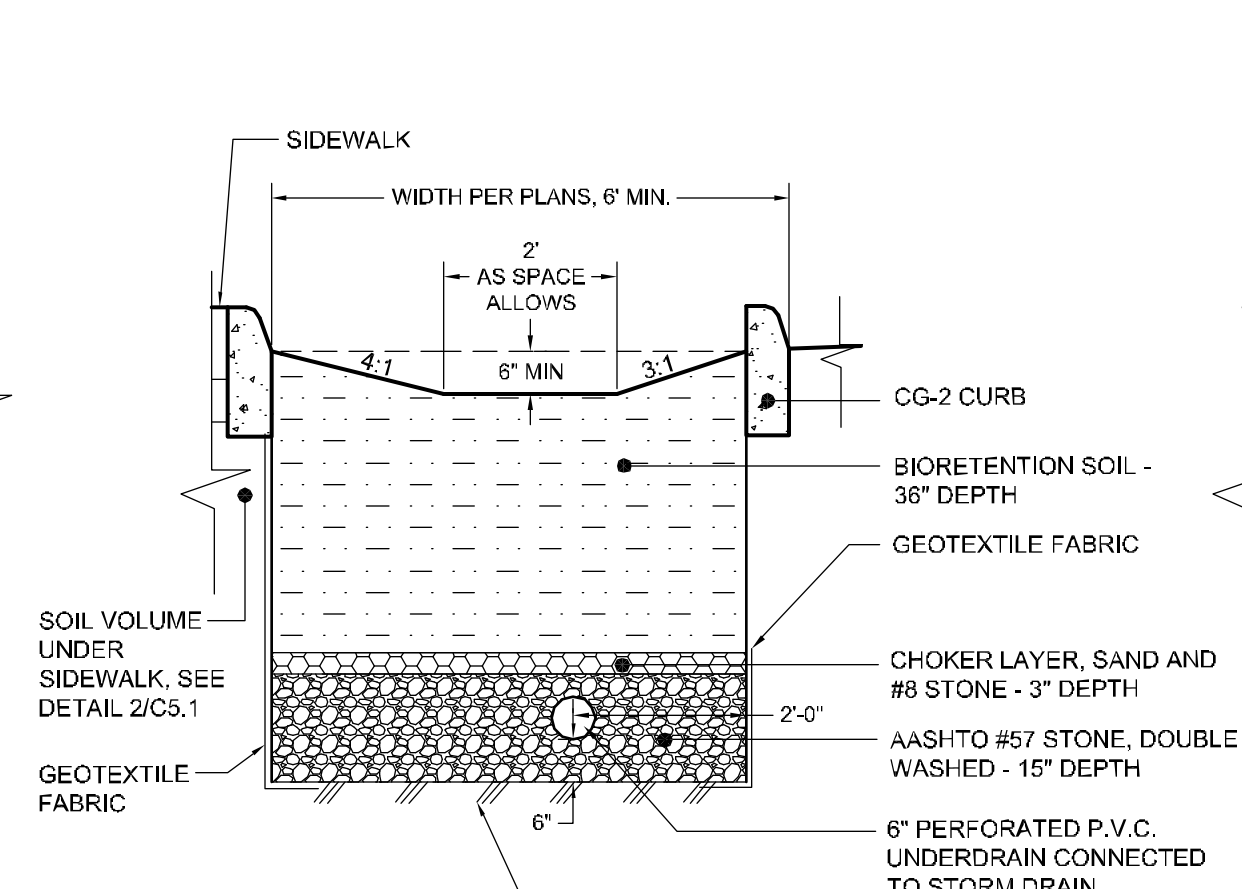
- TEMPORARY CONSTRUCTION EASEMENT, SEE SHEET C3.0 - C3.2 FOR AREAS
- LOD - LIMIT OF DISTURBANCE
- U - 6" PVC PERFORATED UNDERDRAIN
- ROLL TOP CURB, SEE DETAIL 2, SHEET C8.0
- DETECTABLE WARNING PANEL, SEE DETAIL 6/C8.0
- CONCRETE SIDEWALK, SEE DETAIL 3/C8.0
- MILLING AND OVERLAY PAVEMENT, ADD ALT. 1, SEE DETAIL 2/C5.0
- MINIMUM PAVEMENT PATCH, SEE DETAIL 1/C5.0
- SOIL VOLUME UNDER PROPOSED SIDEWALK, ADD ALT 2., SEE DETAIL 2/C5.1



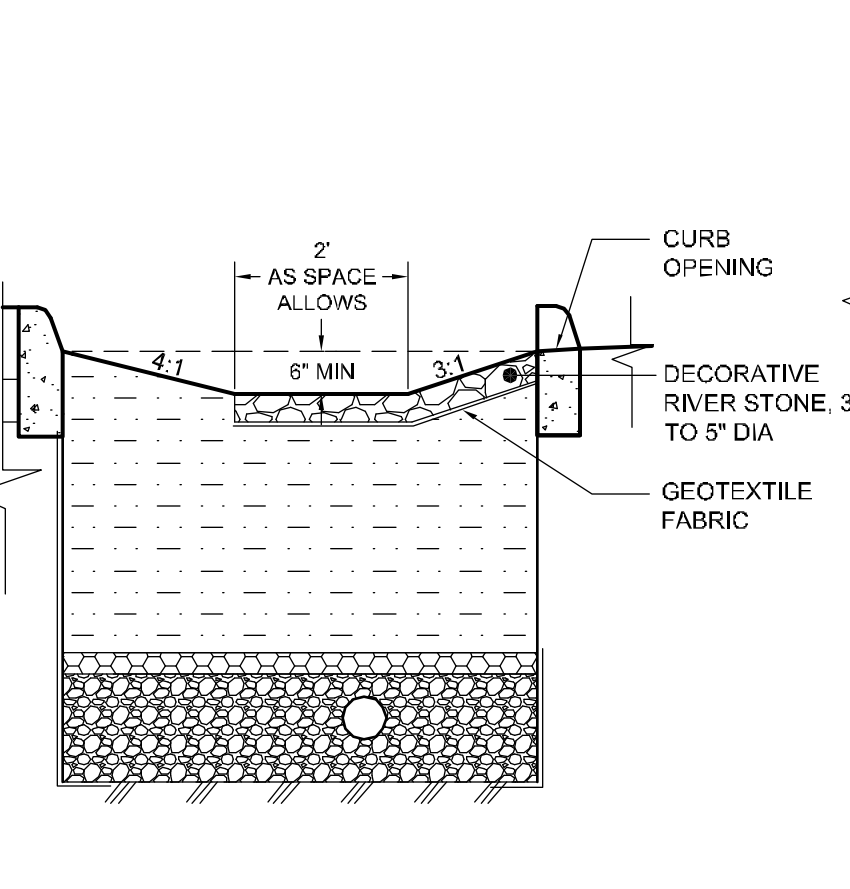
PLAN VIEW

- NOTES:**
1. BIORETENTION MATERIAL AND CONSTRUCTION SHALL MEET SPECIFICATION FOR 'BIORETENTION SOIL'.
 2. SCARIFY SUBGRADE 3" MIN. BEFORE INSTALLATION.
 3. TREES AND PLANTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE LANDSCAPE DESIGN PLANS.

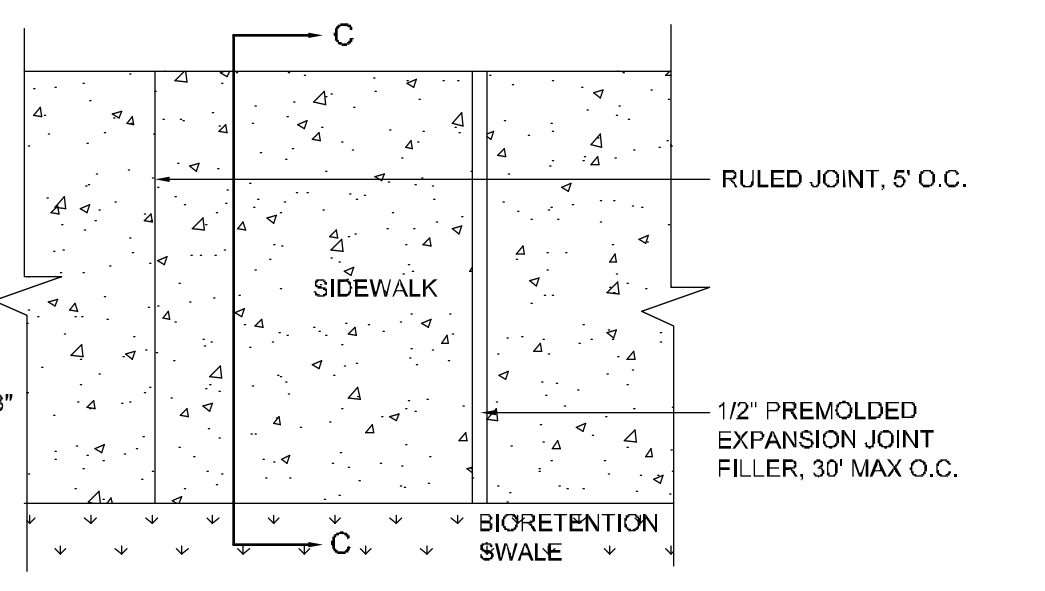
1
 C5.1 **BIORETENTION SWALE**
 N.T.S.



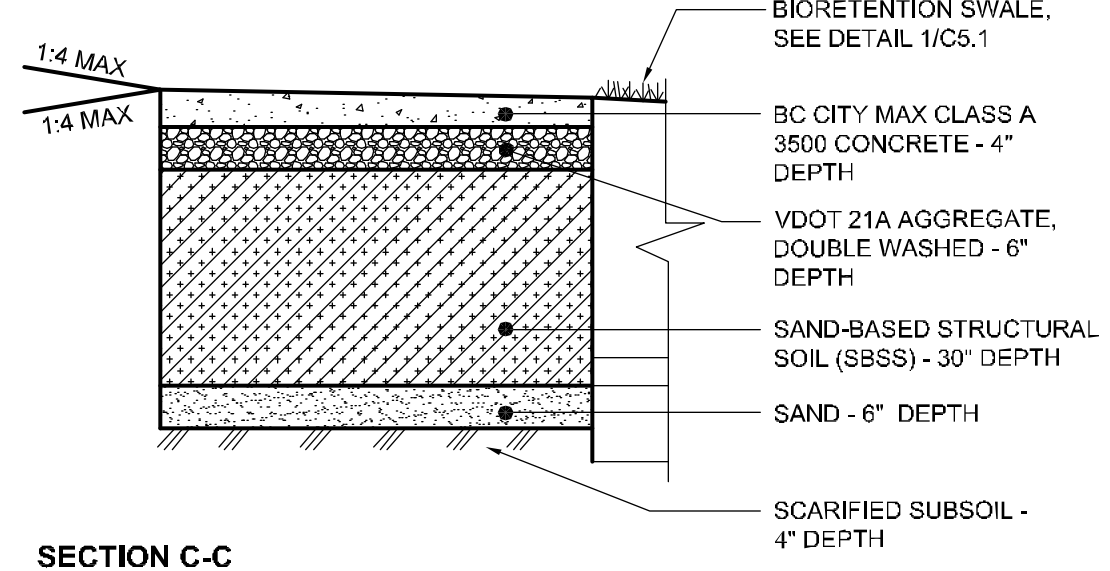
SECTION A-A



SECTION B-B

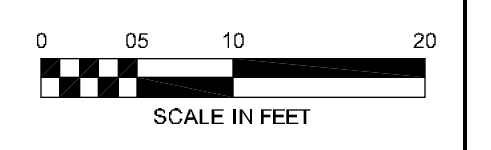


PLAN VIEW



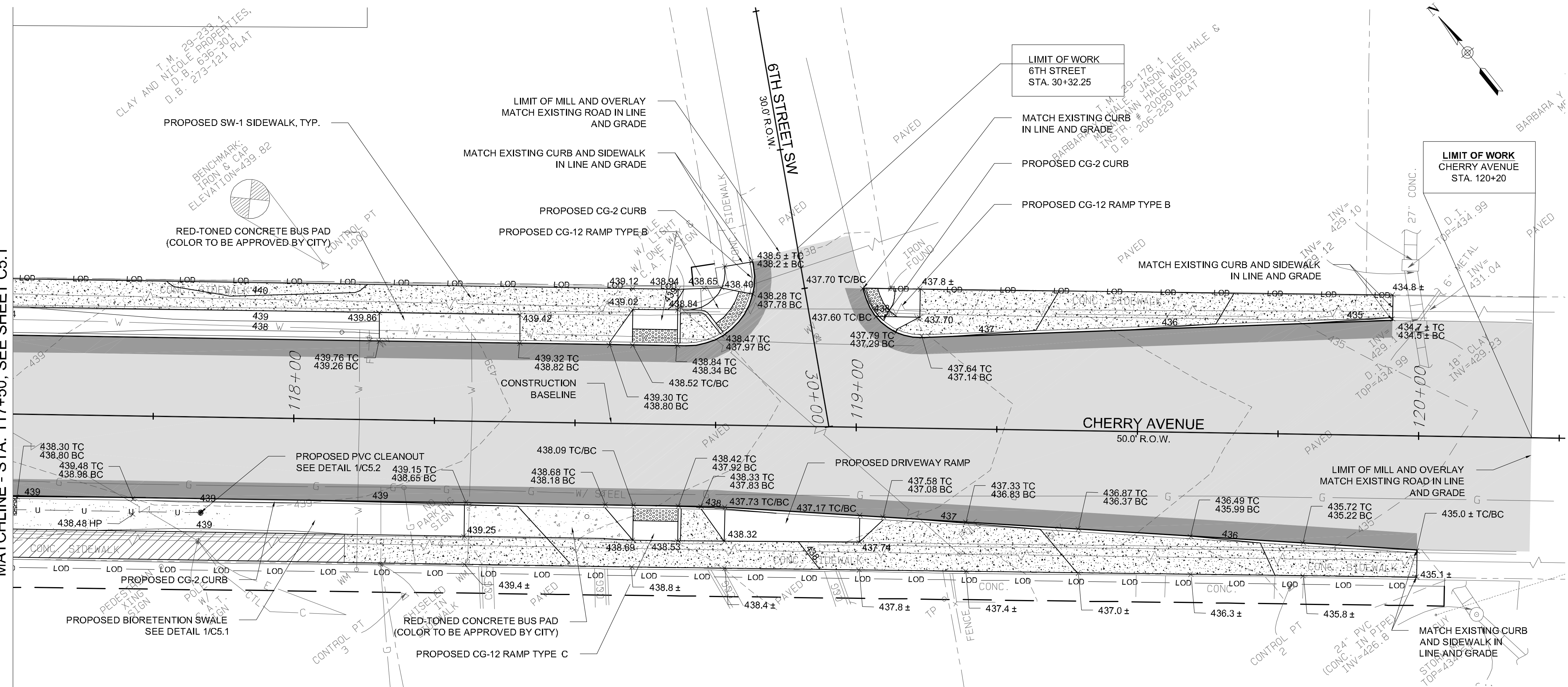
SECTION C-C

2
 C5.1 **SOIL VOLUME UNDER SIDEWALK**
 N.T.S. (ADD ALTERNATE 2)



PREPARED: EL/JD/MK
 CHECKED: EM/MAB
 DATE: 04/28/14
 REV 1 -
 REV 2 -
 REV 3 -
 SHEET NAME: PAVING AND GRADING PLAN
 DRAWING NUMBER: C5.1

MATCHLINE - STA. 117+50, SEE SHEET C5.1

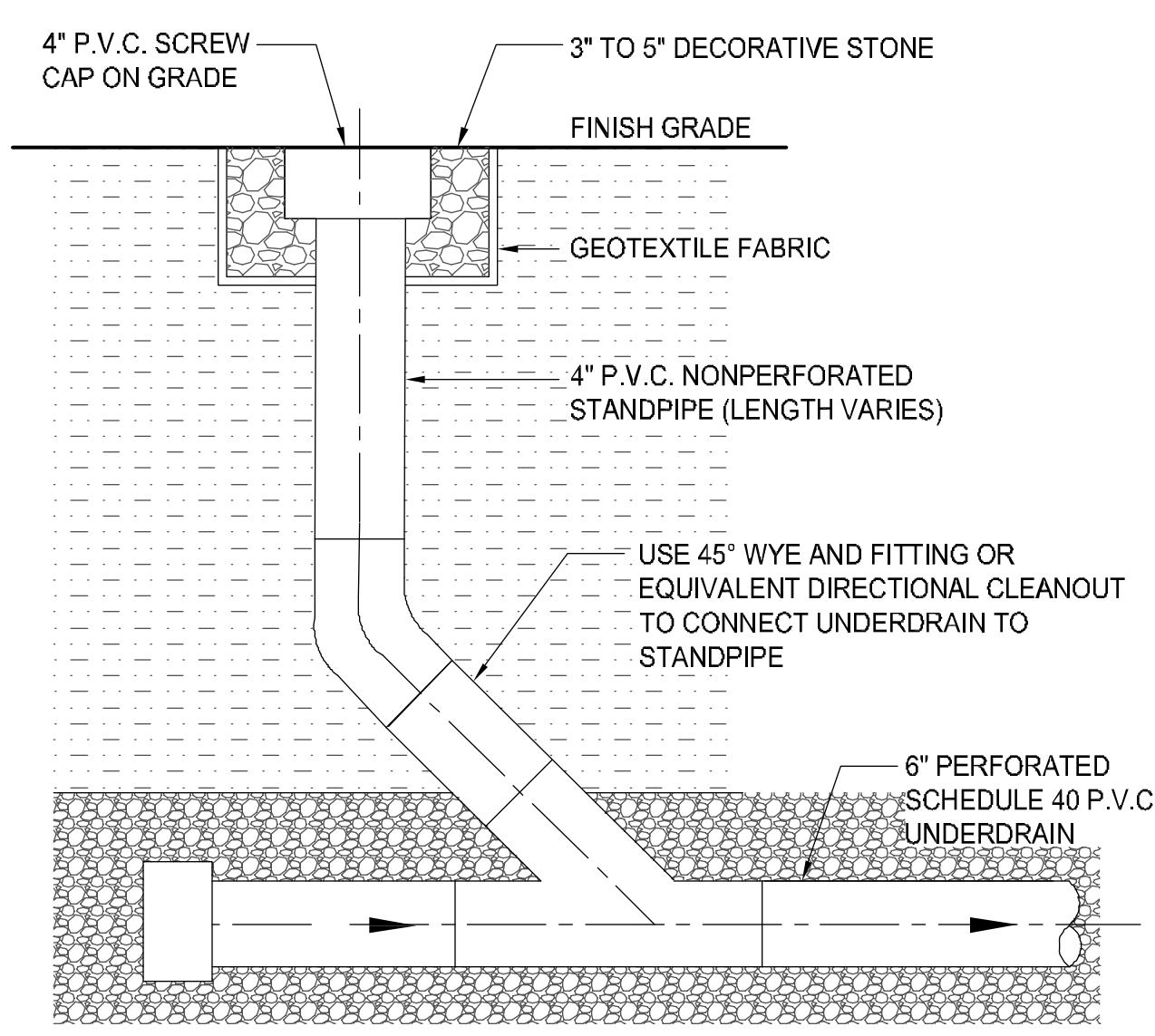


LIMIT OF WORK
6TH STREET
STA. 30+32.25

LIMIT OF WORK
CHERRY AVENUE
STA. 120+20

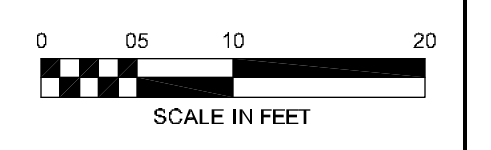
- NOTES:
1. FOR ALL CURB RAMPS, SEE DETAIL 6/C8.0
 2. FOR ALL DRIVEWAYS, SEE DETAIL 1/C8.0
 3. FOR PROPOSED CURB, SEE DETAIL 4/C8.0

LEGEND	
	TEMPORARY CONSTRUCTION EASEMENT, SEE SHEET C3.0 - C3.2 FOR AREAS
	LIMIT OF DISTURBANCE
	6" PVC PERFORATED UNDERDRAIN
	ROLL TOP CURB, SEE DETAIL 2, SHEET C8.0
	DETECTABLE WARNING PANEL, SEE DETAIL 6/C8.0
	CONCRETE SIDEWALK, SEE DETAIL 3/C8.0
	MILLING AND OVERLAY PAVEMENT, ADD ALT. 1, SEE DETAIL 2/C5.0
	MINIMUM PAVEMENT PATCH, SEE DETAIL 1/C5.0
	SOIL VOLUME UNDER PROPOSED SIDEWALK, ADD ALT 2., SEE DETAIL 2/C5.1



1
C5.2
4" P.V.C. CLEANOUT
N.T.S.

CHERRY AVENUE
7-1/2 STREET SW TO 6TH STREET SW
CHARLOTTEVILLE, VA



PREPARED: EL/JD/MK
CHECKED: EM/MAB
DATE: 04/28/14
REV. 1 -
REV. 2 -
REV. 3 -
SHEET NAME: PAVING AND GRADING PLAN
DRAWING NUMBER: C5.2
SHEET NUMBER: 13 OF 22

STRIPING LEGEND

- ① TYPE B CLASS 1 PAVEMENT MARKING WHITE SHARROW SYMBOL
 - ② TYPE B CLASS 1 PAVEMENT MARKING WHITE TRAFFIC ARROW (DIRECTION AS SHOWN)
 - ③ TYPE B CLASS 1 PAVEMENT LINE MARKING 4" – WHITE SOLID (EDGE LINE)
 - ④ TYPE B CLASS 1 PAVEMENT LINE MARKING 4" – WHITE 2' STRIPE, 4' SKIP (SKIP LINE)
 - ⑤ TYPE B CLASS 1 PAVEMENT LINE MARKING 6" – WHITE SOLID (BIKE LANE LINE OR EDGE LINE)
 - ⑥ TYPE B CLASS 1 PAVEMENT LINE MARKING 24" – WHITE SOLID (STOP LINE OR CROSSWALK LINE)
 - ⑦ TYPE B CLASS 1 PAVEMENT LINE MARKING 4" – DOUBLE YELLOW STRIPE 4" SEPARATION
 - ⑧ TYPE B CLASS 1 PAVEMENT LINE MARKING 4" – SINGLE YELLOW 2' STRIPE, 4' SKIP (SKIP LINE)
 - ⑨ TYPE B CLASS 1 PAVEMENT LINE MARKING 4" – DOUBLE YELLOW 2' STRIPE, 4' SKIP (CENTERLINE SKIP LINE)
 - ⑩ TYPE B CLASS 1 PAVEMENT LINE MARKING 12" – YELLOW SOLID
- ↑ DIRECTION OF TRAVEL

SIGNING AND STRIPING GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CITY OF CHARLOTTESVILLE AND VDOT LATEST STANDARDS AND SPECIFICATIONS. WORK SHALL ALSO MEET ALL APPLICABLE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO INSTALLING PROPOSED WORK. WHEN THESE PLANS ARE IN CONFLICT WITH ACTUAL SITE CONDITIONS, PROPOSED WORK MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.

SIGNING

3. ALL SIGNS SHOWN ARE NEW UNLESS OTHERWISE NOTED.
4. ALL SIGNS SHALL BE HIGH INTENSITY SHEETING MEETING THE REQUIREMENTS OF AASHTO M268.
5. PROPOSED SIGNS SHALL BE MOUNTED SO THAT NO PORTION OF THE SIGN PANEL OVERHANGS ADJACENT ROADWAY PAVEMENT, I.E. SHALL NOT HANG IN FRONT OF A FACE OF CURB.
6. LATERAL CLEARANCE BETWEEN PROPOSED SIGN POSTS AND EDGE OF ADJACENT ROADWAY SHALL BE IN ACCORDANCE WITH CITY OF CHARLOTTESVILLE AND VDOT LATEST STANDARDS AND SPECIFICATIONS. IF LOCATED IN OR ADJACENT TO SIDEWALKS, A 32" MINIMUM CLEAR AND 48" PREFERRED PASSING SPACE ON EXISTING AND PROPOSED SIDEWALKS SHALL BE MAINTAINED.
7. ALL SIGNS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 7 FEET FROM THE GROUND TO THE BOTTOM OF THE SIGN. IF AT ANY POINT THE CONTRACTOR CANNOT MEET THE VERTICAL CLEARANCE REQUIRED, THE CONTRACTOR SHALL CEASE WORK AND CONTACT THE ENGINEER FOR FURTHER INSTRUCTIONS.
8. PROPOSED SIGNS AT NEW LOCATIONS SHALL BE INSTALLED SO THEY DO NOT BLOCK THE VISIBILITY OF ANY EXISTING SIGNS OR SIGNALS.
9. PROPOSED SIGNS AND POSTS SHALL BE CLEAR OF EXISTING FIRE HYDRANTS, SURFACE UTILITY, AND OVERHEAD UTILITY EQUIPMENT A MINIMUM OF 10 FEET.
10. FOR NEW POST INSTALLATION, THE CONTRACTOR SHALL VERIFY THAT THERE ARE NO CONFLICTING UNDERGROUND OR OVERHEAD UTILITIES.
11. SQUARE STEEL SIGN POST INSTALLATION, SIGN PANEL MOUNTING AND HARDWARE SHALL BE IN ACCORDANCE WITH CITY OF CHARLOTTESVILLE AND VDOT STANDARDS AND SPECIFICATIONS. SIGNS SHALL BE MOUNTED ON PROPOSED SQUARE STEEL METAL POSTS UNLESS OTHERWISE NOTED IN THE PLANS.
12. THE CONTRACTOR SHALL SUBMIT PROOFS/ SHOP DRAWINGS OF THE PROPOSED SIGN CONTENT TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION.
13. SIGNS MOUNTED TO EXISTING LIGHT, SIGNAL OR UTILITY POLES SHALL BE FASTENED WITH A MANUFACTURED STEEL BANDING SYSTEM. POLES SHALL NOT BE DRILLED DIRECTLY. THE CONTRACTOR SHALL SUBMIT MANUFACTURER INFORMATION ON THE BANDING SYSTEM TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. CONTRACTOR SHALL OBTAIN PERMISSION FROM POLE OWNER PRIOR TO INSTALLATION.
14. EXISTING SIGNS (PANELS, HARDWARE AND/OR POSTS) THAT ARE CALLED FOR TO BE REMOVED AND NOT REUSED SHALL BE DISPOSED OF.
15. ALL SIGN LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY EACH LOCATION PRIOR TO INSTALLING A SIGN. IF AT ANY POINT THE CONTRACTOR FINDS A CONFLICT, THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO INSTALLING THE PROPOSED SIGN.
16. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO INSTALLING SIGNING. ADDITIONAL ADJUSTMENTS OF EXISTING SIGNS BEYOND THOSE CALLED FOR IN THESE PLANS MAY BE NECESSARY. ADDITIONAL ADJUSTMENTS WILL BE MADE AS DIRECTED BY THE ENGINEER.

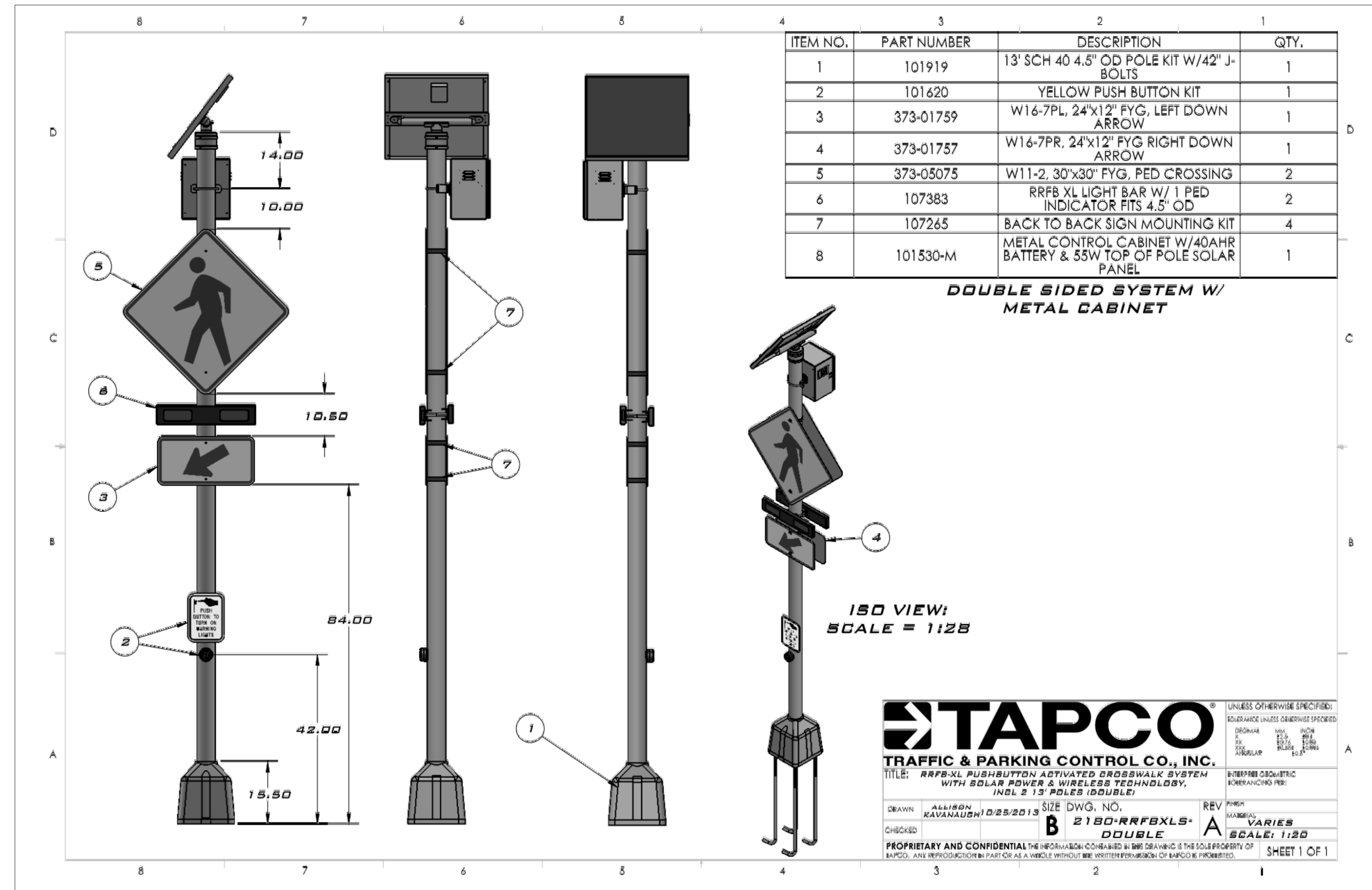
STRIPING

17. ALL PAVEMENT MARKINGS ARE TYPE B, CLASS 1 UNLESS OTHERWISE NOTED.
18. ALL STRIPING DIMENSIONS ADJACENT TO CURB ARE MEASURED TO THE FACE OF CURB.
19. TEXT, ARROW AND BICYCLE FACILITY SYMBOLS SHALL BE WHITE. LONGITUDINAL LOCATIONS ARE APPROXIMATE UNLESS DIMENSIONS ARE GIVEN.
20. ERADICATE ALL EXISTING PAVEMENT MARKINGS WITHIN THE PROJECT LIMITS UNLESS OTHERWISE NOTED. COSTS ARE INCIDENTAL TO THE ERADICATION PAY ITEM.

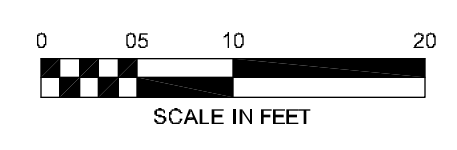
PAVEMENT MARKING QUANTITIES

SHEET NUMBER	① TYPE B CLASS 1 PAVEMENT LINE MARKING WHITE SHARROW SYMBOL	② TYPE B CLASS 1 PAVEMENT LINE MARKING WHITE TRAFFIC ARROW (DIRECTION AS SHOWN)	③ TYPE B CLASS 1 PAVEMENT LINE MARKING 4" – WHITE SOLID (EDGE LINE)	④ TYPE B CLASS 1 PAVEMENT LINE MARKING 4" – WHITE 2' STRIPE, 4' SKIP (SKIP LINE)	⑤ TYPE B CLASS 1 PAVEMENT LINE MARKING 6" – WHITE SOLID (BIKE LANE LINE OR EDGE LINE)	⑥ TYPE B CLASS 1 PAVEMENT LINE MARKING 24" – WHITE SOLID (STOP LINE OR CROSSWALK LINE)	⑦ TYPE B CLASS 1 PAVEMENT LINE MARKING 4" – DOUBLE YELLOW STRIPE 4" SEPARATION*	⑧ TYPE B CLASS 1 PAVEMENT LINE MARKING 4" – SINGLE YELLOW 2' STRIPE 4' SKIP (SKIP LINE)	⑨ TYPE B CLASS 1 PAVEMENT LINE MARKING 4" – DOUBLE YELLOW 2' STRIPE 4' SKIP (CENTERLINE SKIP LINE)*	⑩ TYPE B CLASS 1 PAVEMENT LINE MARKING 12" – YELLOW SOLID	⑪ ERADICATED EXISTING PAVEMENT LINE MARKINGS	⑫ ERADICATED EXISTING PAVEMENT SYMBOLS
6.2	EA 2	EA 3	LF 128	LF 0	LF 249	LF 211	LF 262	LF 0	LF 0	LF 0	LF 615	EA 3
6.3	2	0	0	0	134	147	726	36	0	65	779	1
6.4	4	1	45	18	110	134	446	0	26	0	978	3
TOTAL	8	4	173	18	493	492	1,434	36	26	65	2,372	7

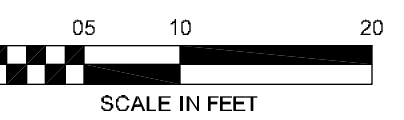
* ALL PAVEMENT MARKINGS DENOTED AS "DOUBLE" HAVE BEEN TABULATED TO SHOW THE QUANTITY ALREADY DOUBLED.



RECTANGULAR RAPID FLASH BEACON
TAPCO – TRAFFIC AND PARKING CONTROL CO. INC. OR APPROVED EQUAL



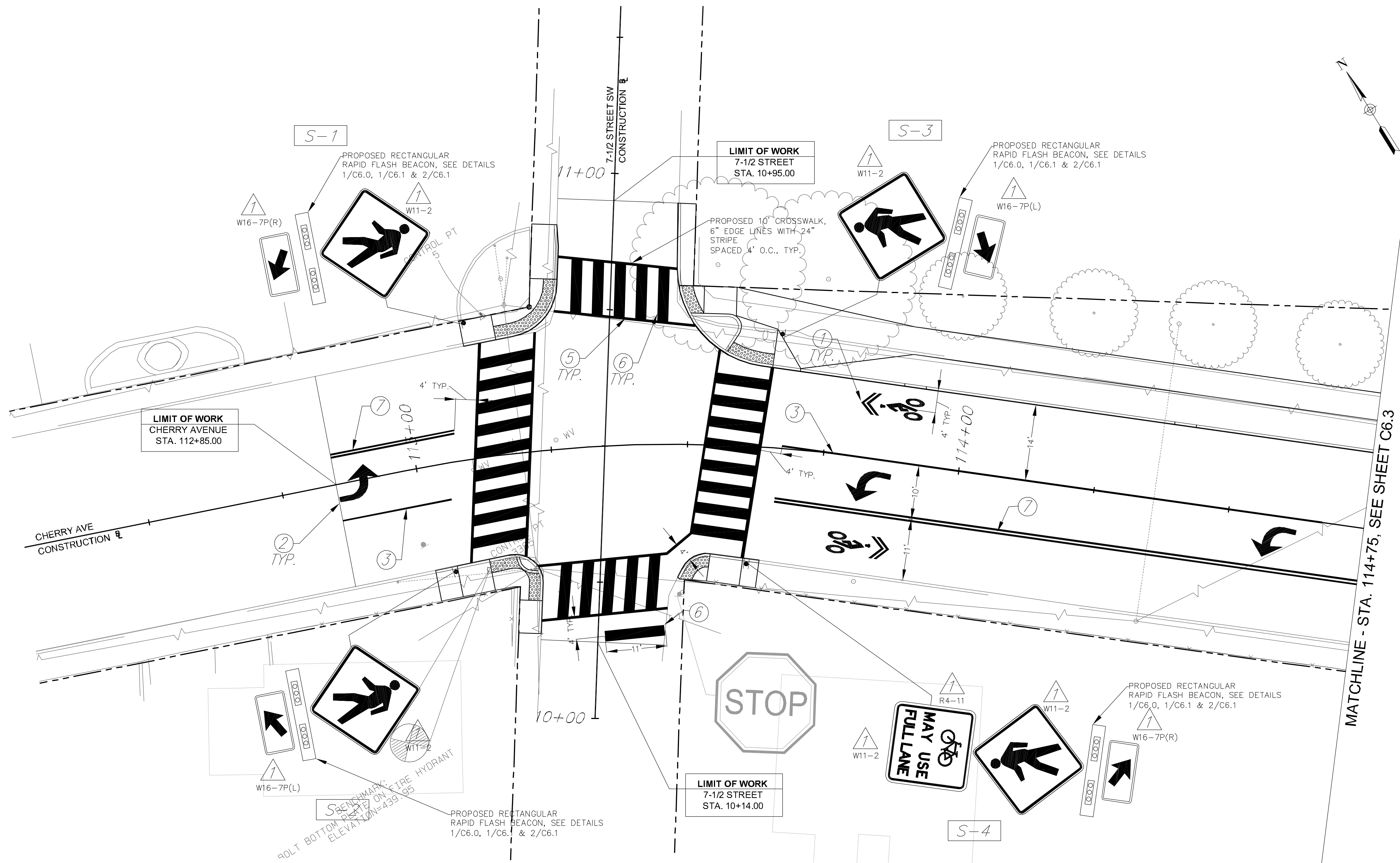
CHERRY AVENUE
 7-1/2 STREET SW TO 6TH STREET SW
 CHARLOTTEVILLE, VA



PREPARED: EL/JD/MK
 CHECKED: EM/MAB
 DATE: 04/28/14
 REV. 1 -
 REV. 2 -
 REV. 3 -

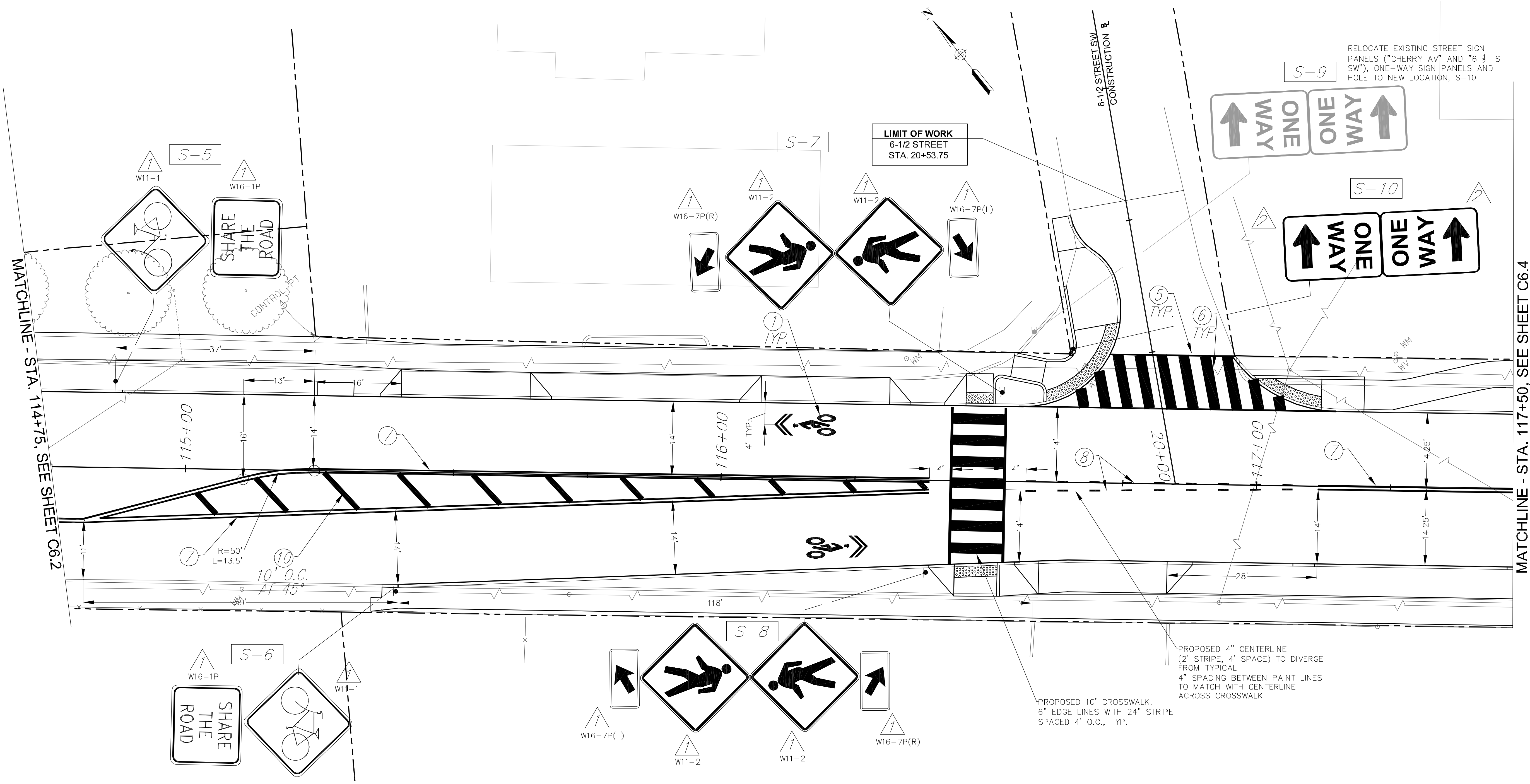
SHEET NAME:
SIGNING AND MARKING PLAN
 DRAWING NUMBER:
C6.2

SHEET NUMBER:
16 OF 22



SIGN LEGEND	
ALL EXISTING SIGNS SHOWN ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.	
	EXISTING OR RELOCATED SIGN POST
	EXISTING SIGN PANEL TO REMAIN
	NEW SIGN TO BE INSTALLED
	RELOCATED LOCATION OF EXISTING SIGN
	NEW SIGN TO BE INSTALLED

NOTE: ALL EXISTING PAVEMENT MARKINGS WITHIN PROJECT LIMITS ARE TO BE ERADICATED UNLESS OTHERWISE NOTED.



RELOCATE EXISTING STREET SIGN PANELS ("CHERRY AV" AND "6 1/2 ST SW"), ONE-WAY SIGN PANELS AND POLE TO NEW LOCATION, S-10

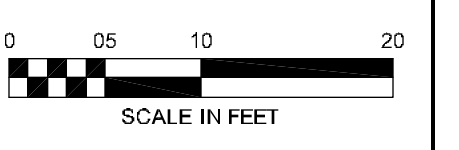
LIMIT OF WORK
6-1/2 STREET
STA. 20+53.75

6-1/2 STREET SW
CONSTRUCTION

MATCHLINE - STA. 114+75, SEE SHEET C6.2

MATCHLINE - STA. 117+50, SEE SHEET C6.4

CHERRY AVENUE
 7-1/2 STREET SW TO 6TH STREET SW
 CHARLOTTEVILLE, VA



PREPARED: EL/JD/MK
 CHECKED: EM/MAB
 DATE
04/28/14
 REV. 1 -
 REV. 2 -
 REV. 3 -

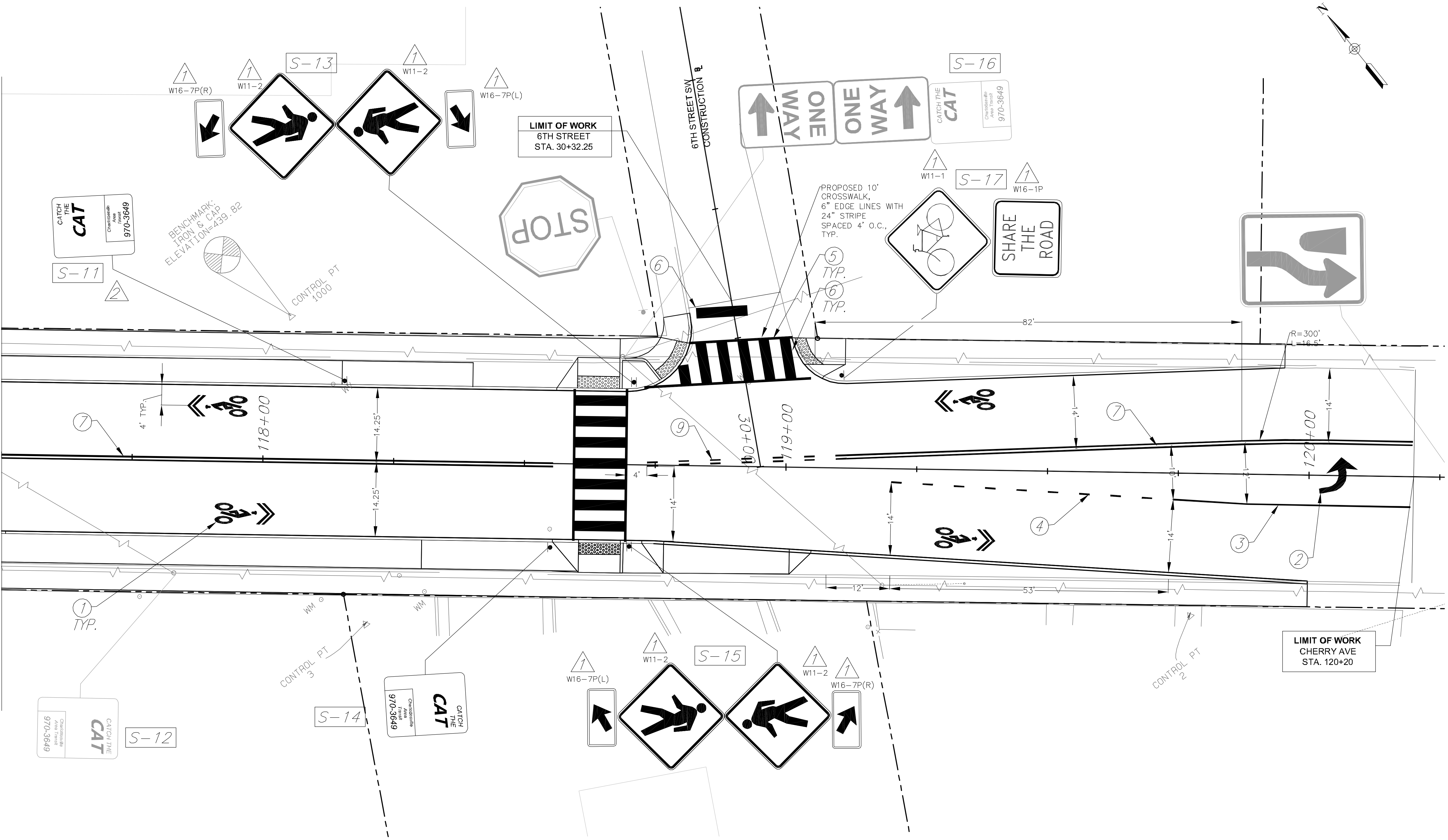
SHEET NAME
SIGNING AND MARKING PLAN
 DRAWING NUMBER
C6.3

SHEET NUMBER
17 OF 22

SIGN LEGEND	
ALL EXISTING SIGNS SHOWN ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.	
	EXISTING OR RELOCATED SIGN POST
	EXISTING SIGN PANEL TO REMAIN
	NEW SIGN TO BE INSTALLED
	RELOCATED LOCATION OF EXISTING SIGN
	NEW SIGN TO BE INSTALLED
	PROPOSED SIGNAL POLE AND MAST ARM
	PROPOSED PEDESTRIAN POLE

NOTE: ALL EXISTING PAVEMENT MARKINGS WITHIN PROJECT LIMITS ARE TO BE ERADICATED UNLESS OTHERWISE NOTED.

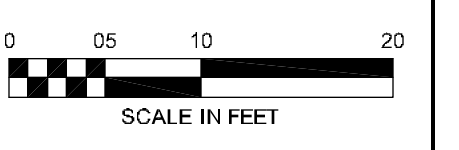
MATCHLINE - STA. 117+50, SEE SHEET C6.3



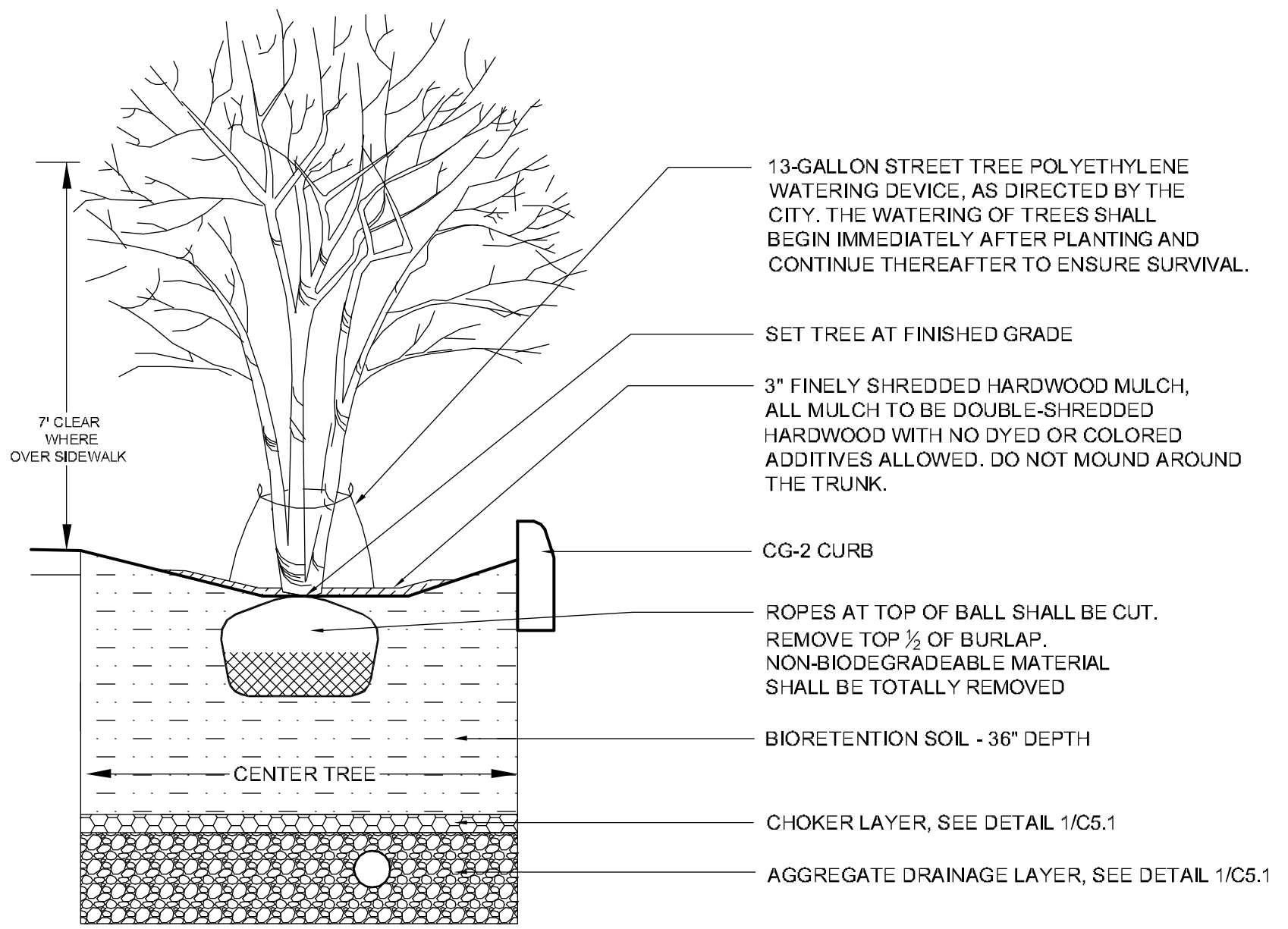
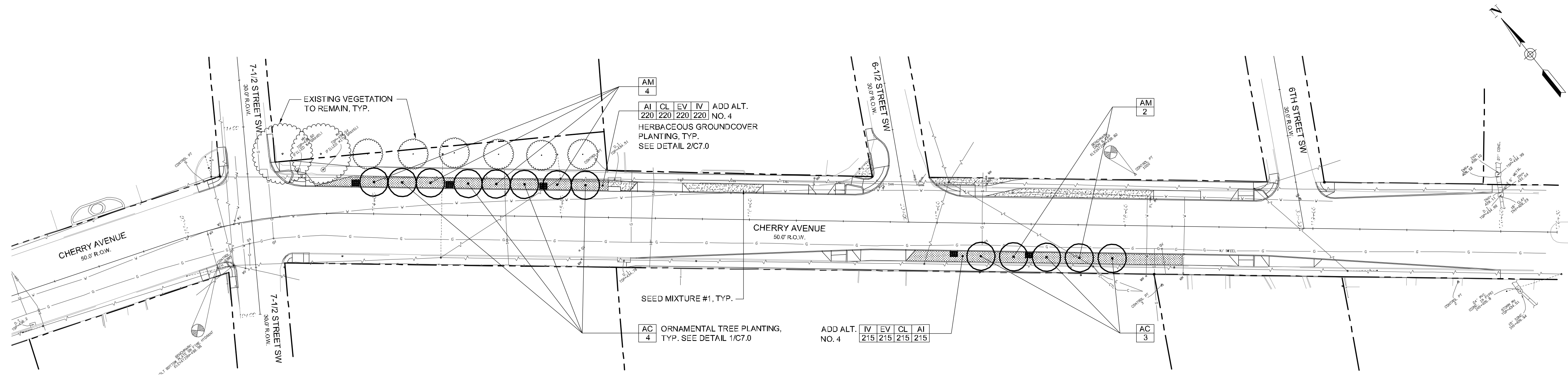
SIGN LEGEND	
ALL EXISTING SIGNS SHOWN ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.	
	EXISTING OR RELOCATED SIGN POST
	EXISTING SIGN PANEL TO REMAIN
	NEW SIGN TO BE INSTALLED
	RELOCATED LOCATION OF EXISTING SIGN
	NEW SIGN TO BE INSTALLED
	PROPOSED SIGNAL POLE AND MAST ARM
	PROPOSED PEDESTRIAN POLE

NOTE: ALL EXISTING PAVEMENT MARKINGS WITHIN PROJECT LIMITS ARE TO BE ERADICATED UNLESS OTHERWISE NOTED.

CHERRY AVENUE
 7-1/2 STREET SW TO 6TH STREET SW
 CHARLOTTEVILLE, VA



PREPARED: EL/JD/MK
 CHECKED: EM/MAB
 DATE: 04/28/14
 REV. 1 -
 REV. 2 -
 REV. 3 -
 SHEET NAME: SIGNING AND MARKING PLAN
 DRAWING NUMBER: C6.4
 SHEET NUMBER: 18 OF 22



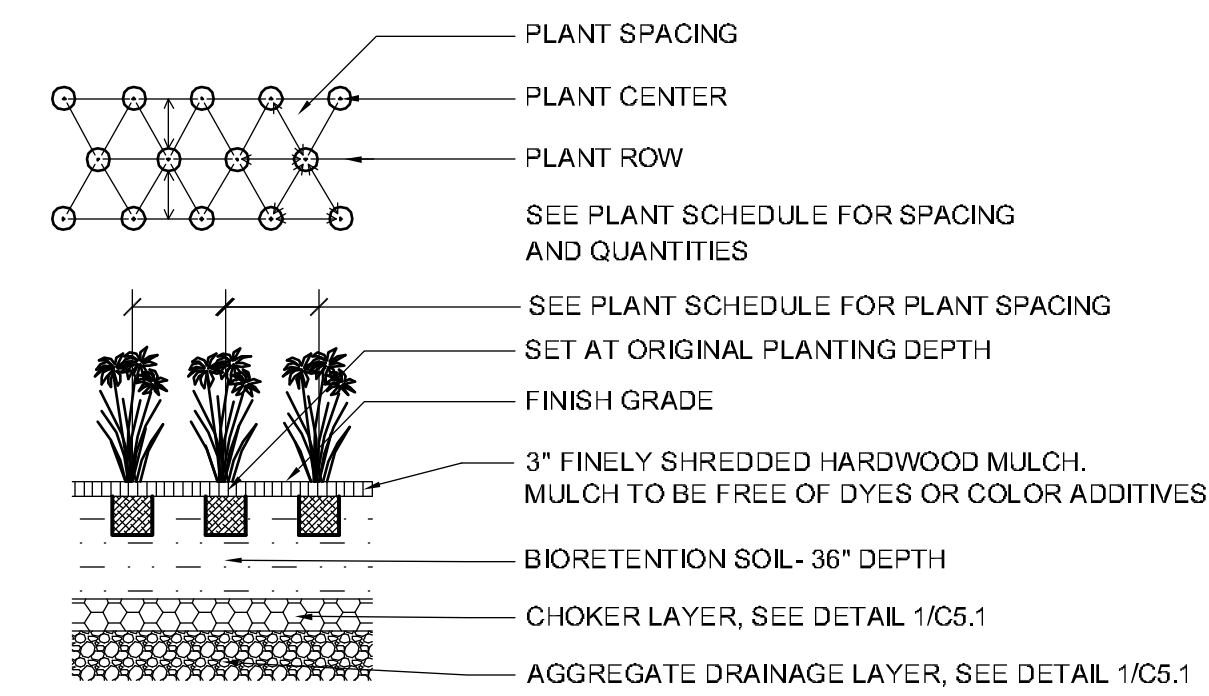
- NOTES:**
1. REMOVE ALL PAVEMENT, GRAVEL, SUB-BASE AND CONSTRUCTION DEBRIS BEFORE PREPARING SOIL AND PLANTING TREES
 2. ALL PLASTIC TIES, LABELS, ETC., ARE TO BE REMOVED FROM THE BRANCHES OR TRUNK TO PREVENT GIRDLING.
 3. REMOVE COMPACTED SOIL AND ADD 36" NEW BIORETENTION SOIL.
 4. AT PLANTING PRUNE ONLY CROSSING LIMBS, CO-DOMINANT LEADERS, BROKEN OR DEAD BRANCHES, AND ANY BRANCHES THAT POSE A HAZARD TO PEDESTRIANS.

1
C7.0 ORNAMENTAL TREE PLANTING
NTS

PLANT SCHEDULE

Symbol	Qty	Botanical Name	Common Name	Size/Type	Spacing	Remarks
ORNAMENTAL TREES						
AM	6	<i>Acer campestre 'Metro Gold'</i>	Metro Gold Hedge Maple	6'-8" Ht. / B&B	As Shown	Branch up to 7' ht. where over sidewalk
AC	7	<i>Amelanchier canadensis</i>	Shadblow Serviceberry	6'-8" Ht. / B&B	As Shown	Branch up to 7' ht. where over sidewalk
HERBACEOUS GROUNDCOVER - ADD ALT. NO. 4						
AI	435	<i>Asclepias incarnata</i>	Swamp Milkweed (w)	Plug	12" O.C.	Install in clumps of 5-9 plants, alternate with clumps of EV in the center of the planting strip
CL	435	<i>Chasmanthium latifolium</i>	Northern Sea Oat (d)	Plug	12" O.C.	Install in clumps of 5-9 plants, alternate with clumps of IV along the outsides of the planting strip
EV	435	<i>Elymus virginicus</i>	Virginia Wild Rye (w)	Plug	12" O.C.	Install in clumps of 5-9 plants, alternate with clumps of AI in the center of the planting strip
IV	435	<i>Iris versicolor</i>	Blue Flag (d)	Plug	12" O.C.	Install in clumps of 5-9 plants, alternate with clumps of CL along the outsides of the planting strip

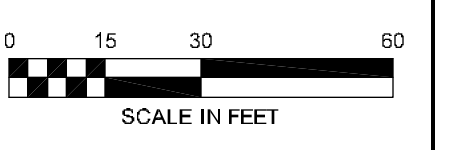
- NOTES:**
1. FINAL PLANT SPECIES SELECTION TO BE APPROVED BY THE CITY PRIOR TO INSTALLATION.
 2. WET-TOLERANT (w) SPECIES SHALL BE PLANTED NEAR THE CENTER OF THE SWALE AND DRY-TOLERANT (d) SPECIES AT THE EDGES.
 3. TREE SPECIES SELECTED FOR THEIR SIZE, SALT TOLERANCE, AND ABILITY TO WITHSTAND DRY AND WET CONDITIONS
 4. HERBACEOUS GROUNDCOVER AREA TO BE SEEDED WITH OUTSIDEPRIDE.COM'S "GARLAND GRASS SEED MIX", OR APPROVED EQUAL, SHOULD ALTERNATIVE NOT BE APPLICABLE.



2
C7.0 HERBACEOUS GROUNDCOVER PLANTING - ADD ALT. NO. 4
NTS

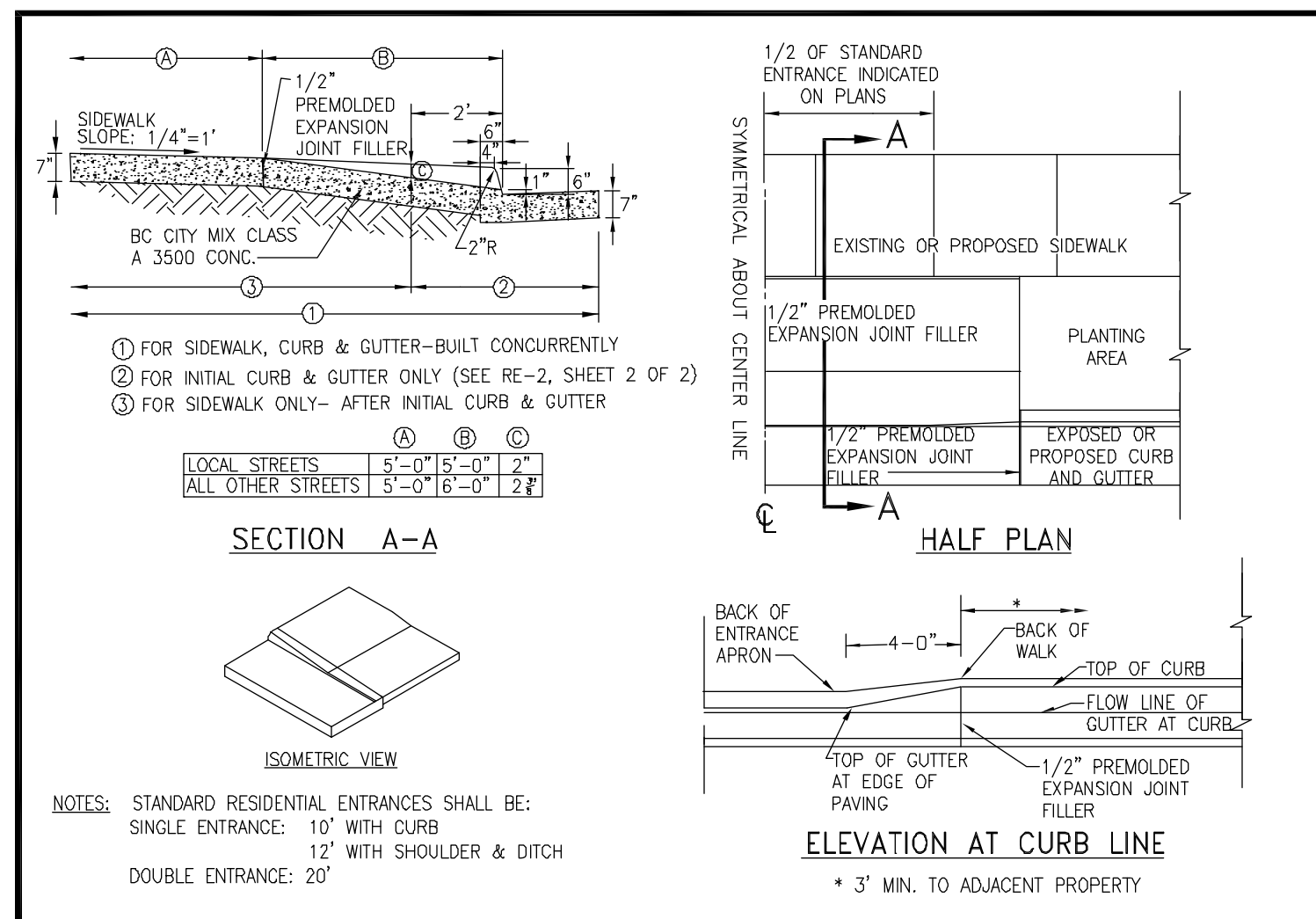
- LEGEND:**
- Small Ornamental Tree, See Detail 1/C7.0
 - Plant Reference
 - Seed Mixture #1 - Outsidepride.com's "Combat Extreme™ Southern Zone" or approved equal
 - Herbaceous Plantings - Add Alt. No. 4. OR Area to be seeded with Seed Mixture #2 - Outsidepride.com's "Garland Grass Seed Mix", or approved equal, should alternative not be applicable.
 - Decorative River Stone - 3" to 5" in DIA

**CHERRY AVENUE
 7-1/2 STREET SW TO 6TH STREET SW
 CHARLOTTESVILLE, VA**

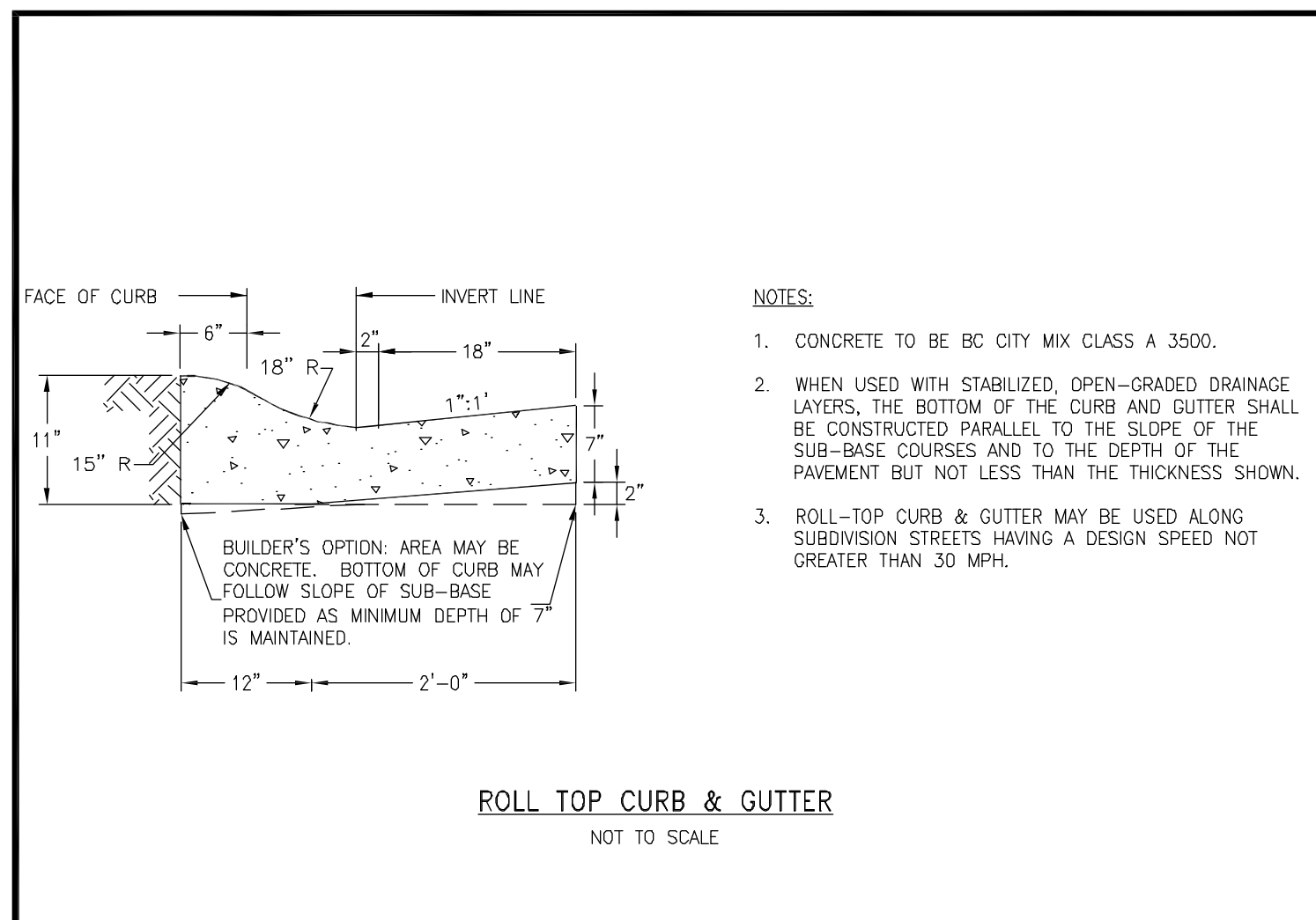


PREPARED: EL/JD/MK
 CHECKED: EM/MAB
 DATE: 04/28/14
 REV. 1 -
 REV. 2 -
 REV. 3 -
 SHEET NAME: LANDSCAPE PLANS

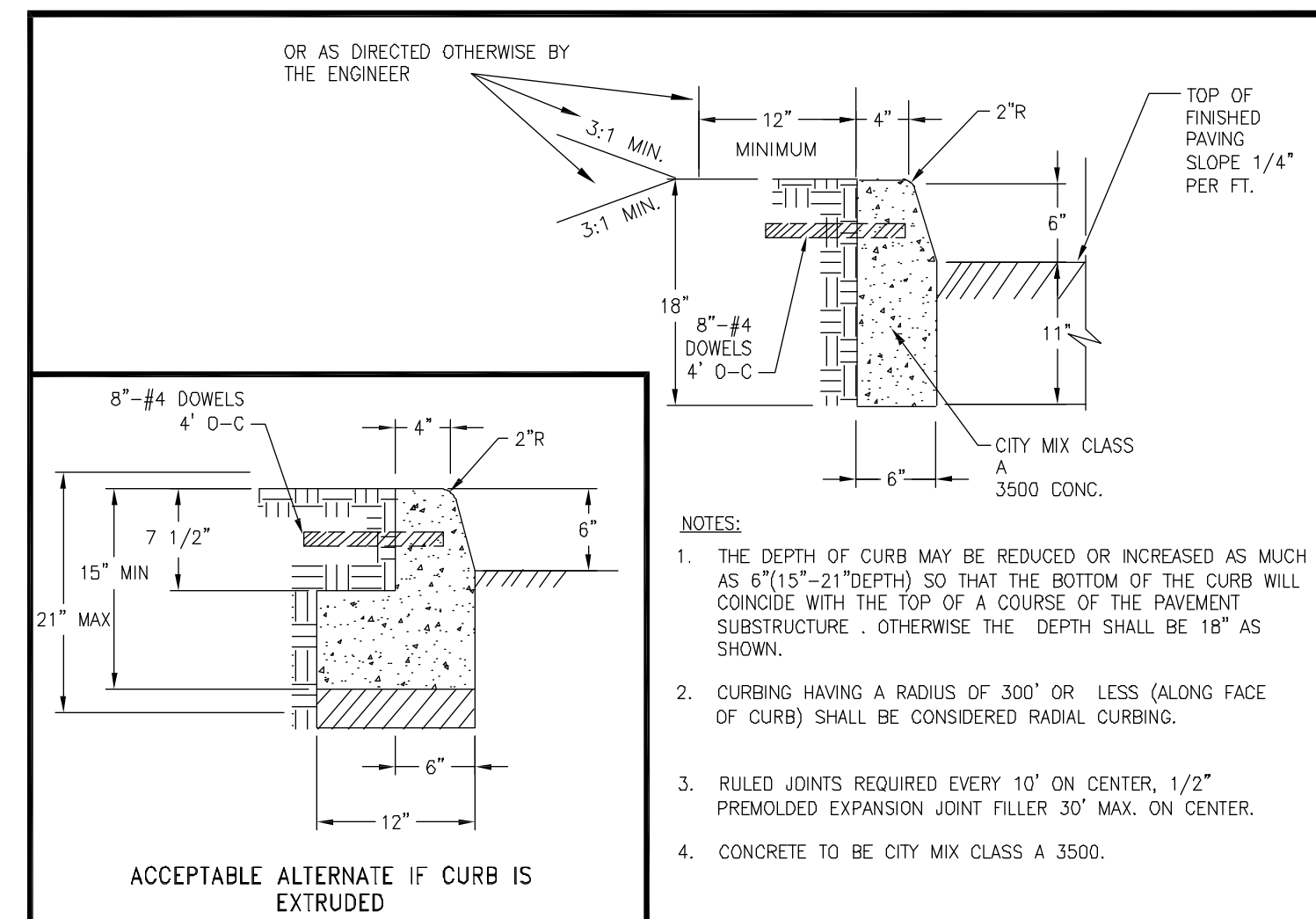
DRAWING NUMBER: C7.0
 SHEET NUMBER: 19 OF 22



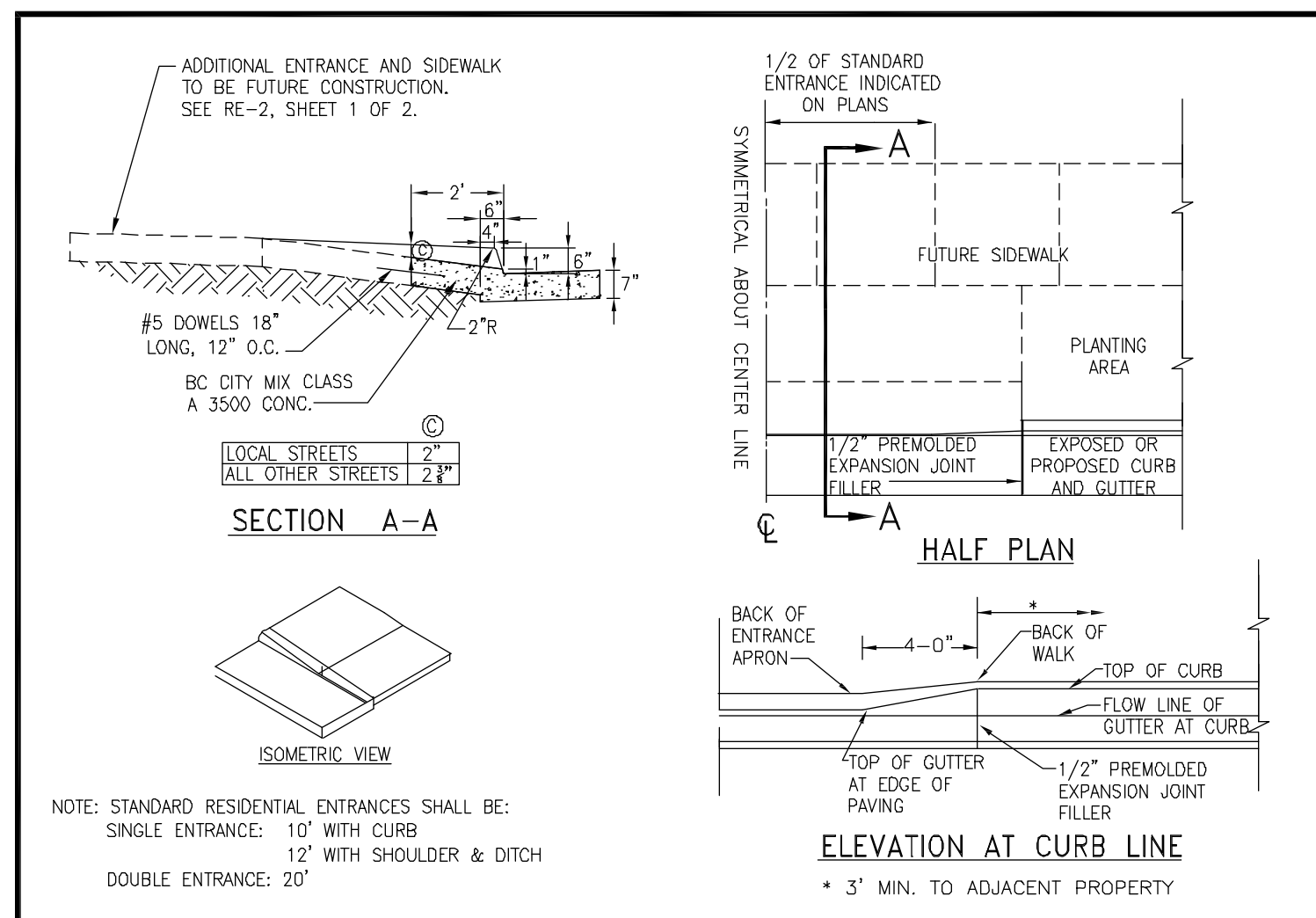
1	CITY OF CHARLOTTEVILLE	CITY STANDARDS	
		STANDARD ENTRANCE ACROSS SIDEWALK CURB & GUTTER (SHEET 1 OF 2)	RE-2
REVISION	DATE	SCALE: N.T.S.	STANDARD NUMBER: RE-2



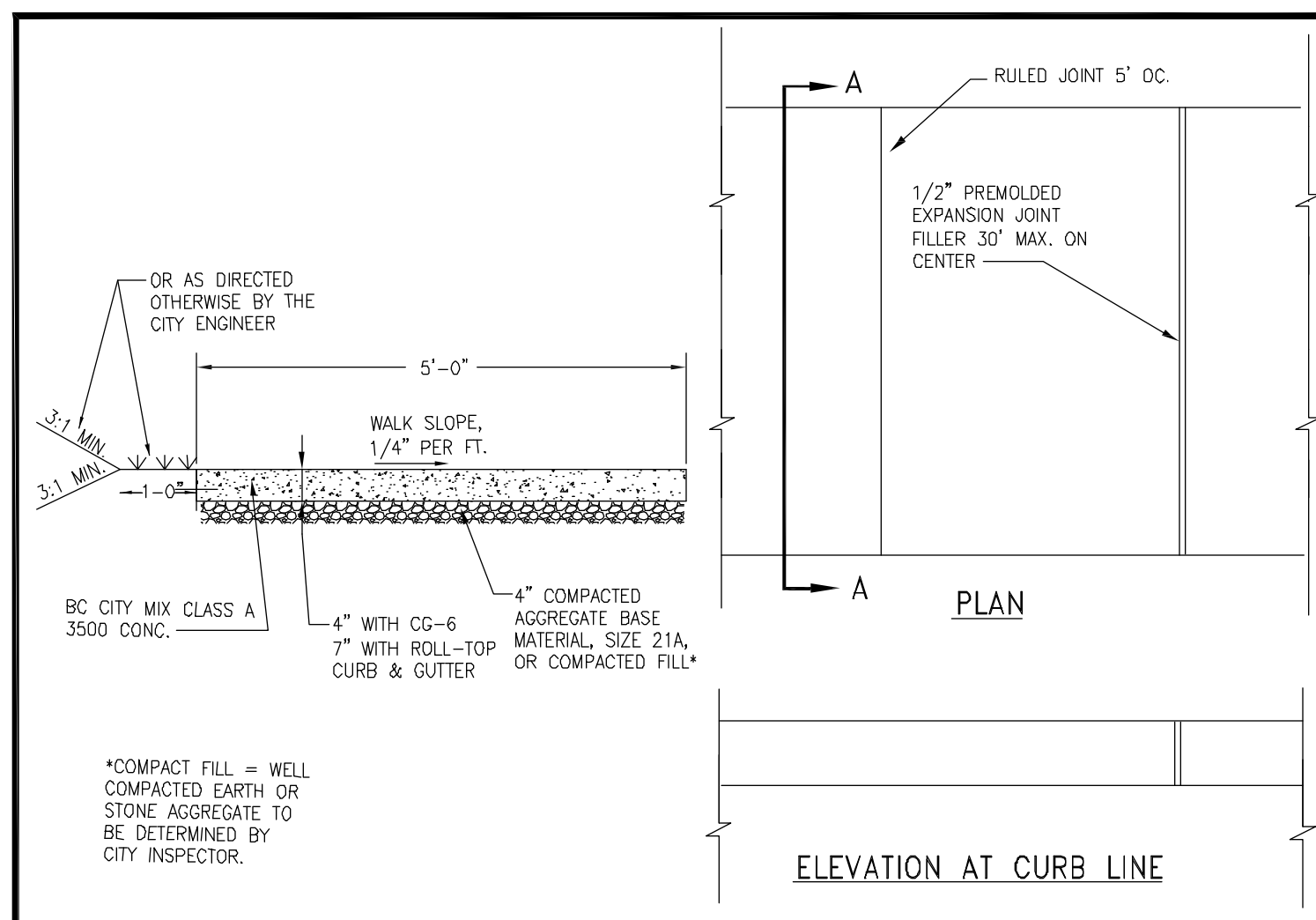
2	CITY OF CHARLOTTEVILLE	CITY STANDARDS	
		ROLL-TOP CURB & GUTTER OPTION	RT-1
REVISION	DATE	SCALE: N.T.S.	STANDARD NUMBER: RT-1



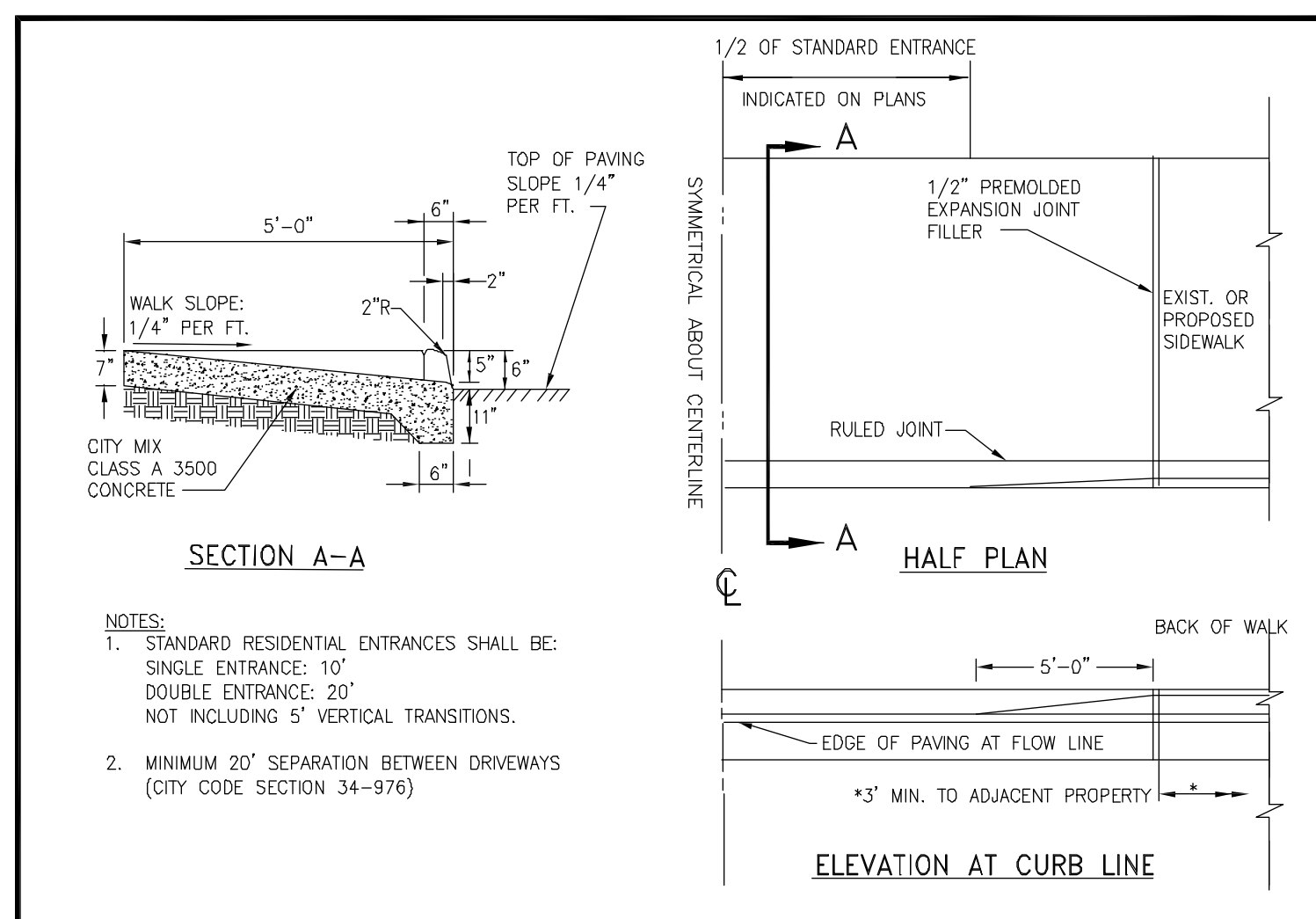
4	CITY OF CHARLOTTEVILLE	CITY STANDARDS	
		STANDARD CURBING	CG-2
REVISION	DATE	SCALE: N.T.S.	STANDARD NUMBER: CG-2



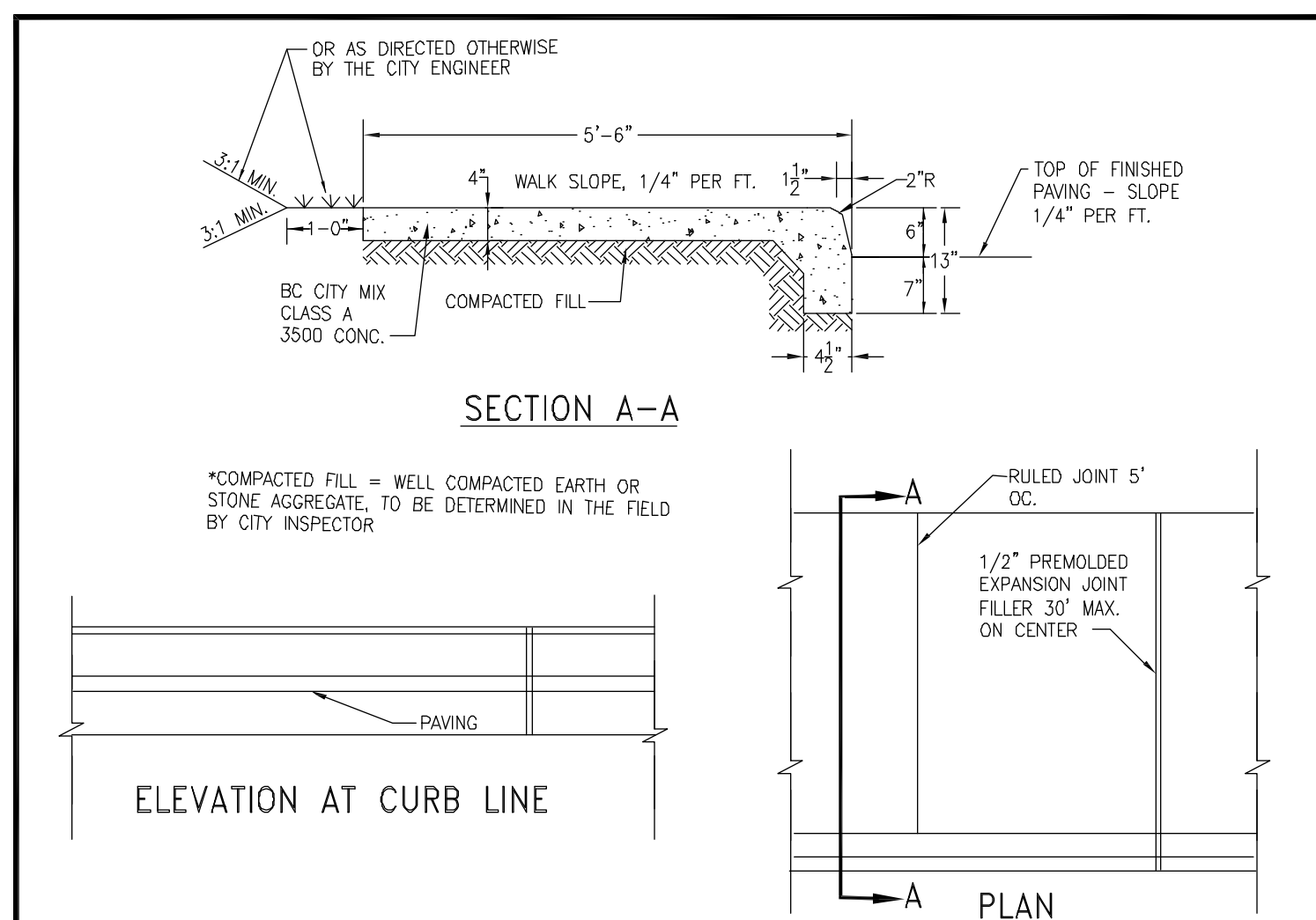
1	CITY OF CHARLOTTEVILLE	CITY STANDARDS	
		STANDARD ENTRANCE ACROSS CURB & GUTTER ONLY (SHEET 2 OF 2)	RE-2
REVISION	DATE	SCALE: N.T.S.	STANDARD NUMBER: RE-2



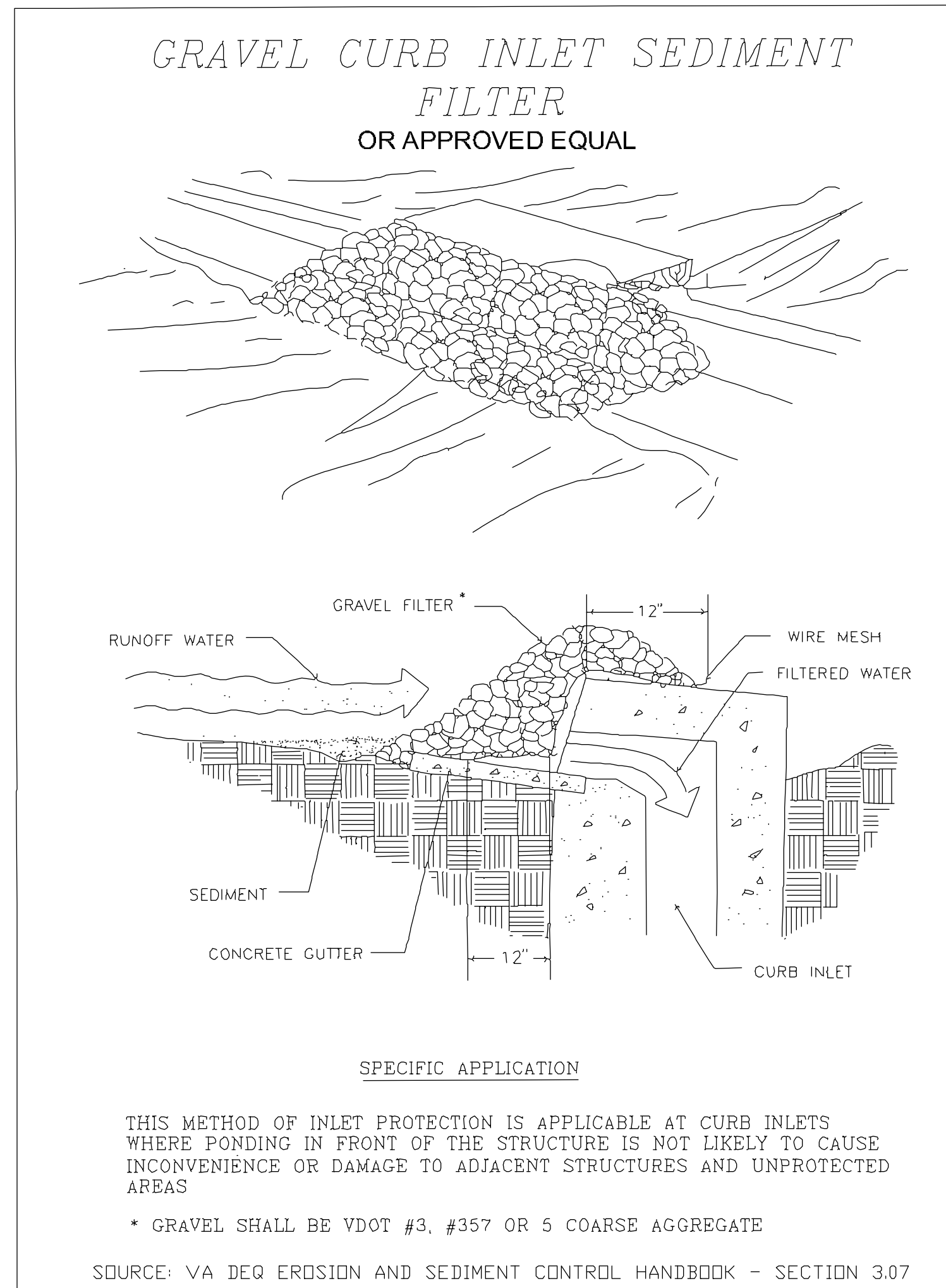
3	CITY OF CHARLOTTEVILLE	CITY STANDARDS	
		STANDARD SIDEWALK WITHOUT CURB	SW-1
REVISION	DATE	SCALE: N.T.S.	STANDARD NUMBER: SW-1



1	CITY OF CHARLOTTEVILLE	CITY STANDARDS	
		STANDARD ENTRANCE WITH 5' MONOLITHIC SIDEWALK AND CURB	RE-1
REVISION	DATE	SCALE: N.T.S.	STANDARD NUMBER: RE-1



3	CITY OF CHARLOTTEVILLE	CITY STANDARDS	
		STANDARD SIDEWALK MONOLITHIC WITH CURB	SW-2
REVISION	DATE	SCALE: N.T.S.	STANDARD NUMBER: SW-2



5	CITY OF CHARLOTTEVILLE	CITY STANDARDS	
		STANDARD SIDEWALK MONOLITHIC WITH CURB	SW-2
REVISION	DATE	SCALE: N.T.S.	STANDARD NUMBER: SW-2

CG-12

GENERAL NOTES:

1. THE DETECTABLE WARNING SHALL BE PROVIDED BY TRUNCATED DOMES.
2. DETECTABLE WARNING TO BE CLASS A-3 CONCRETE (CLASS A-4 IF PRECAST) WITH 5' PERPENDICULAR SURFACE COVERING THE FULL WIDTH OF THE RAMP FLOOR BY 2 FEET IN LENGTH IN THE DIRECTION OF PEDESTRIAN TRAVEL. OTHER TYPES OF MATERIAL WITH THE TRUNCATED DOMES DETECTABLE WARNING MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
3. SLOPING SIDES OF CURB RAMP MAY BE FORMED INDIVIDUALLY WITH RAMP FLOOR OR BY USING PERMISSIBLE CONSTRUCTION JOINT WITH REINFORCED BARS.
4. IF RAMP FLOOR IS PRECAST, REINFORCING BARS MUST BE PROVIDED FOR DOWEL BARS SO THAT ADJOINING FLOORED SIDES CAN BE CAST IN PLACE AFTER PLACEMENT OF PRECAST RAMP FLOOR. PRECAST CONCRETE SHALL BE CLASS A-4.
5. REINFORCING BARS ARE TO BE NO. 5 X 8" PLACED 1' CENTER TO CENTER ALONG LENGTH OF RAMP FLOOR. MID-DEPTH OF RAMP FLOOR. MINIMUM CONCRETE COVER 1/2".
6. CURB / CURB AND CUTTER SLOPE TRANSITIONS ADJACENT TO CURB RAMP ARE INCLUDED IN PAYMENT FOR CURB / CURB AND CUTTER.
7. CURB RAMP ARE TO BE LOCATED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THEY ARE TO BE PROVIDED ON PEDESTRIAN FACILITY ACCESSIBLE ROUTE WITHIN THE RIGHT OF WAY OF A HIGHWAY FACILITY. CROSSWALK CURB RAMP SHALL BE PROVIDED ON PEDESTRIAN FACILITY ACCESSIBLE ROUTE WITHIN THE RIGHT OF WAY OF A HIGHWAY FACILITY. AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER AND SHALL NOT BE LOCATED BEHIND FLOOR LEVEL. EXCEPT FOR THE DETECTABLE WARNING, DROP INLETS, ETC. ACCESSIBLE ROUTES PROVIDE A CONTINUOUS UNINTERRUPTED, STABLE, FIRM AND SLIP RESISTANT PATH CONNECTING ALL ACCESSIBLE ELEMENTS OF A FACILITY THAT CAN BE APPROACHED, ENTERED AND USED BY PEDESTRIANS.
8. RAMP MAY BE PLACED ON RADIAL OR TANGENTIAL SECTIONS PROVIDED THAT THE CURB OPENING IS 0.50' WITHIN THE LIMITS OF THE CROSSWALK AND THAT THE SLOPE AT THE CONNECTION OF THE CURB OPENING IS PERPENDICULAR TO THE CURB.
9. TYPICAL CONCRETE SIDEWALK IS 4" THICK. WHEN THE ENTRANCE RAMP CANNOT ACCOMMODATE THE TURNING REQUIREMENTS OF INDICATED HEAVY TRUCK TRAFFIC, REFER TO STANDARD CG-13, COMMERCIAL ENTRANCE HEAVY TRUCK TRAFFIC FOR CONCRETE WIDTH.
10. WHEN CURB RAMP ARE USED IN CONNECTION WITH A SHARED USE PATH, THE MINIMUM WIDTH SHALL BE THE WIDTH OF THE SHARED USE PATH.
11. WHEN ONLY ONE CURB RAMP IS PROVIDED FOR TWO CROSSINGS (DIAGONAL), A 4' X 4' LANDING AREA SHALL BE PROVIDED TO MANEUVER THE DETECTABLE WARNING INTO THE CROSSWALK WITHOUT GOING INTO THE TRAVELWAY. THIS 4' X 4' LANDING AREA MAY INCLUDE THE CUTTER PAN.
12. ALL CASES WHERE CURB RAMP INTERSECT A RADIAL SECTION OF CURB AT ENTRANCES OR STREET CORNERS, THE DETECTABLE WARNING SURFACE SHALL HAVE A FACTORY RADIUS OR BE FIELD MODIFIED AS RECOMMENDED BY THE CONTRACTOR TO MATCH THE BACK OF CURB.

DETECTABLE WARNING AT BACK OF CURB INSTALLED ON A RADIUS

TRUNCATED DOME DETAIL

DETECTABLE WARNING DETAIL

VDOT
ROAD AND BRIDGE STANDARDS
SHEET 1 OF 5 | REVISION DATE 7/11 | 203.06

CG-12 DETECTABLE WARNING SURFACE
TYPE A (PERPENDICULAR) APPLICATION
VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE: 105 502

6

CG-12

ROADWAY GRADE IN PERCENT	MINIMUM RAMP LENGTH IN FEET	4" CURB	6" CURB
0	2	4	4
1	2	5	5
2	3	5	5
3	3	5	5
4	4	6	6
5	5	10	10
6	7	14	14
7	13	19	19
8	19	25	25

VDOT
ROAD AND BRIDGE STANDARDS
SHEET 4 OF 5 | REVISION DATE 7/11 | 203.08

CG-12 DETECTABLE WARNING SURFACE
TYPE C (PARALLEL & PERPENDICULAR) APPLICATION
VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE: 105 502

6

CONSTRUCTION OF A SILT FENCE (WITHOUT WIRE SUPPORT)

1. SET THE STAKES
2. EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF STAKES.
3. STAPLE FILTER MATERIAL TO STAKES AND EXTEND IT INTO THE TRENCH
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.

SHEET FLOW INSTALLATION (PERSPECTIVE VIEW)

POINTS A SHOULD BE HIGHER THAN POINT B
DRAINAGEWAY INSTALLATION (FRONT ELEVATION)

SOURCE: VA DEQ EROSION AND SEDIMENT CONTROL HANDBOOK - SECTION 3.05

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CG-12

TYPICAL DESIGN

SECTION A-A

SECTION B-B

TYPICAL PLACEMENT AT INTERSECTION WITHIN CROSSWALK WITH BUFFER STRIP

TYPICAL PLACEMENT AT INTERSECTION WITHIN CROSSWALK (WITH BUFFER STRIP)

CROSSWALK DIAGONAL PLACEMENT

CROSSWALK DIAGONAL PLACEMENT WITH BUFFER STRIP

VDOT
ROAD AND BRIDGE STANDARDS
SHEET 2 OF 5 | REVISION DATE 7/11 | 203.06

CG-12 DETECTABLE WARNING SURFACE
TYPE A (PERPENDICULAR) APPLICATION
VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE: 105 502

6

CG-12

SECTION C-C

SECTION B-B

SECTION D-D

SECTION A-A

REFUGE ISLAND WITH RAMP TYPE R11

REFUGE ISLAND CUT - THROUGH TYPE R12

VDOT
ROAD AND BRIDGE STANDARDS
SHEET 5 OF 5 | REVISION DATE 7/12 | 203.08A

CG-12 DETECTABLE WARNING SURFACE
MEDIAN AND REFUGE ISLAND APPLICATIONS
VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE: 105 502

6

CG-12

SECTION A-A

SECTION B-B

TYPICAL PLACEMENT AT INTERSECTION WITHIN CROSSWALK

DIAGONAL PLACEMENT

WITH BUFFER STRIP

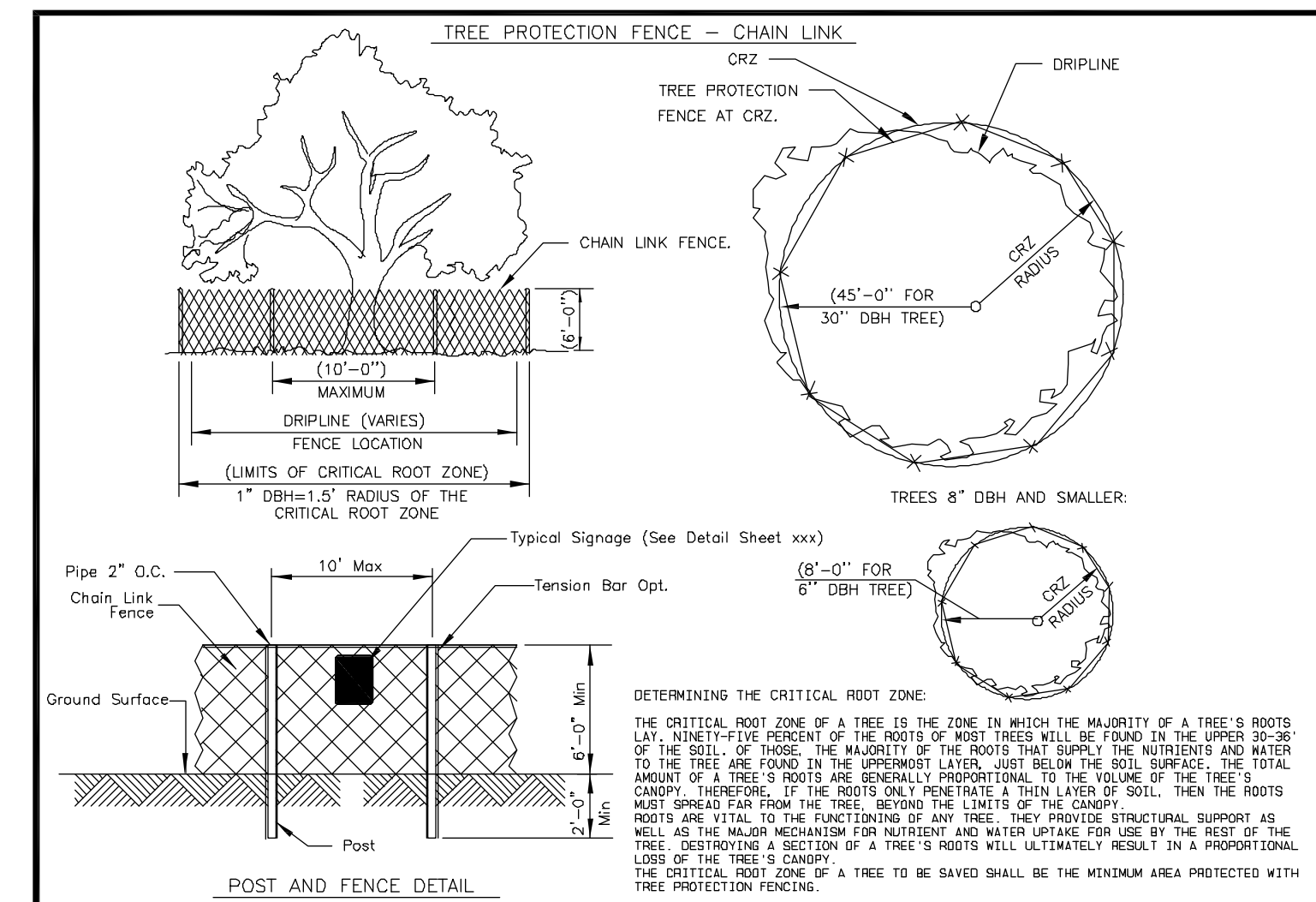
ROADWAY GRADE IN PERCENT	MINIMUM RAMP LENGTH IN FEET	4" CURB	6" CURB
0	2	5	5
1	2	5	5
2	3	5	5
3	3	5	5
4	4	6	6
5	5	10	10
6	7	14	14
7	13	19	19
8	19	25	25

VDOT
ROAD AND BRIDGE STANDARDS
SHEET 3 OF 5 | REVISION DATE 7/11 | 203.07

CG-12 DETECTABLE WARNING SURFACE
TYPE B (PARALLEL) APPLICATION
VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE: 105 502

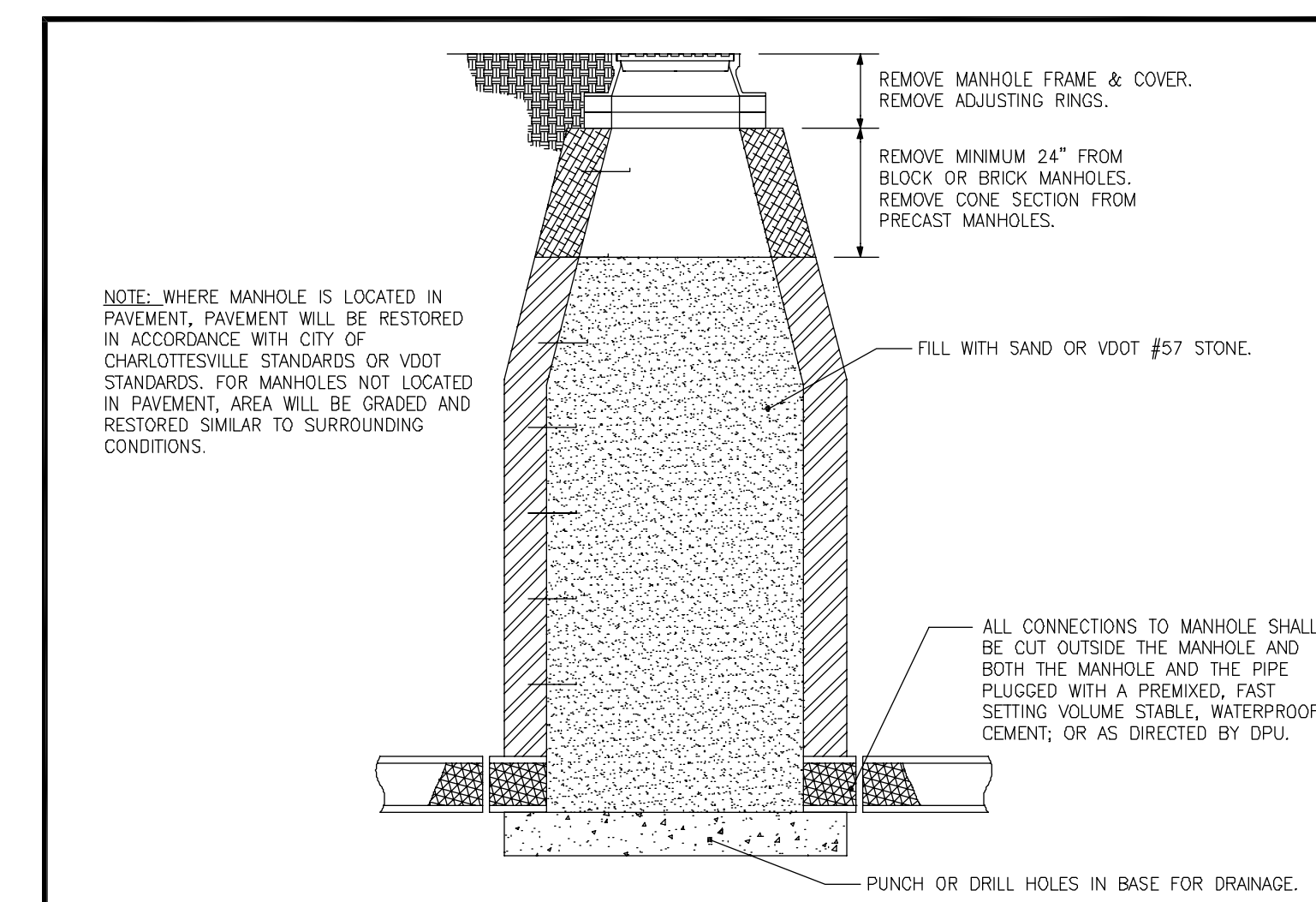
6



8	CITY OF CHARLOTTESVILLE	CITY STANDARDS	
		REVISION	DATE
		TREE PROTECTION DETAIL - CHAIN LINK FENCE	
		SCALE: N.T.S.	STANDARD NUMBER: XX-1



8	CITY OF CHARLOTTESVILLE	CITY STANDARDS	
		REVISION	DATE
		TYPICAL SIGNAGE FOR TREE PRESERVATION AREA	
		SCALE: N.T.S.	STANDARD NUMBER: XX-1



9	CITY OF CHARLOTTESVILLE	JULY	2011	CITY STANDARDS	
		REVISION	DATE	SCALE: N.T.S.	STANDARD NUMBER: WW 7.0
		MANHOLE ABANDONMENT			