



### **PLAN REVIEW SHEET**

 Date:
 12/14/07
 Staff Contact:
 David McDonald

 Petioner:
 Michael Melton
 Telephone:
 704-336-6900

 Petition:
 2008-028
 Fax:
 704-432-1277

Email: dmcdonald@ci.charlotte.nc.us

Location: Approx. 0.39 acres on NE corner Attachments: Shelter\_Concrete\_Standards.pdf

The Plaza and Shamrock Dr. (See 60.01A)

**Existing Zoning:** B-2(CD) **Requested Zoning:** B-1(CD)

(Build addition and remove

condition of use)

### I. SUMMARY REMARKS:

### FIRST SUBMITTAL

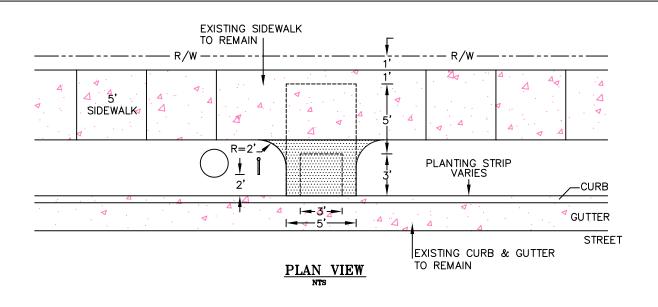
CATS acknowledges receipt of the rezoning application and site plan and submits the following to the petitioner:

1) CATS requests a waiting pad on Plaza Road constructed to CATS Development Standards 60.01 A (see attached).

Please designate such in the site plan and/or accompanying notes. Please contact Leonard Ganther (CATS Operations) @ 704.432.1283 prior to demolition or construction, to coordinate the final location of the waiting pad.

Should you require additional information, please advise.

400 East Trade Street Charlotte, NC 28202



TRASH RECEPTACLE

SIGN

ADA SPACE

NEW CONCRETE WAITING PAD 4" THICK

### NOTES:

- DIMENSIONS REPRESENT MINIMUM STANDARDS; VARIATIONS MUST BE APPROVED THROUGH CATS AND CDOT PROJECT MANAGER.
- 2. SEE SHEETS NO. 07A AND 07B FOR ADDITIONAL DETAILS AND NOTES.
- 3. 2' MINIMUM PLANTING STRIP. 4' PLANTING STRIP IS TYPICAL.

REVISIONS

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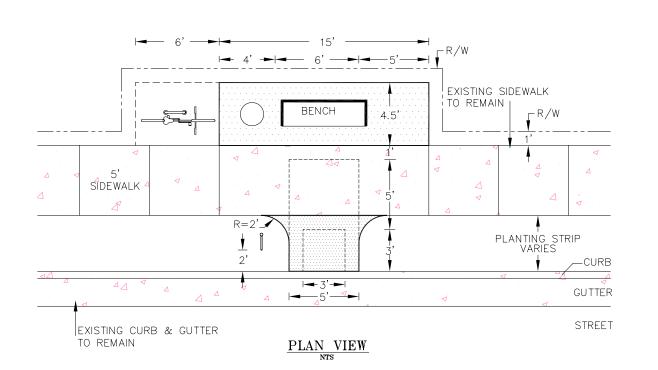
APPROVED DATE

CHARLOTTE-MECKLENBURG
LAND DEVELOPMENT
STANDARDS



WAITING PAD ONLY WITH PLANTING STRIP

STD. NO. REV. 60.01A



NEW CONCRETE WAITING PAD 6" THICK



NEW CONCRETE WAITING PAD 4" THICK



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ADA SPACE

BICYCLE RIB RACK IF REQUIRED



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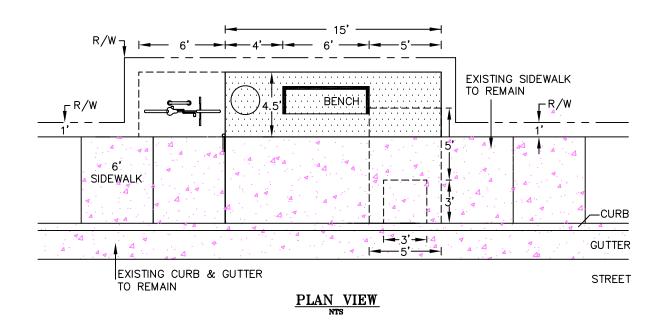
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CHARLOTTE-MECKLENBURG
LAND DEVELOPMENT
STANDARDS



WAITING PAD AND BENCH WITH PLANTING STRIP

STD. NO. REV. 60.02A



NEW CONCRETE WAITING PAD 6" THICK

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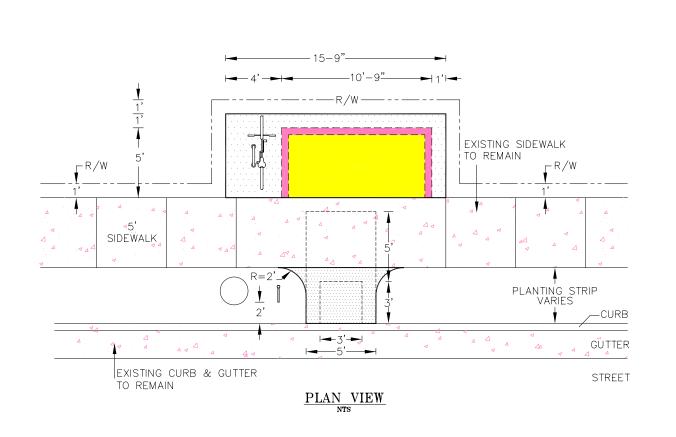
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CHARLOTTE-MECKLENBURG
LAND DEVELOPMENT
STANDARDS



WAITING PAD AND BENCH WITHOUT PLANTING STRIP

STD. NO. REV. 60.02B



NEW CONCRETE WAITING PAD 6" THICK



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5X10 STRUCTURE

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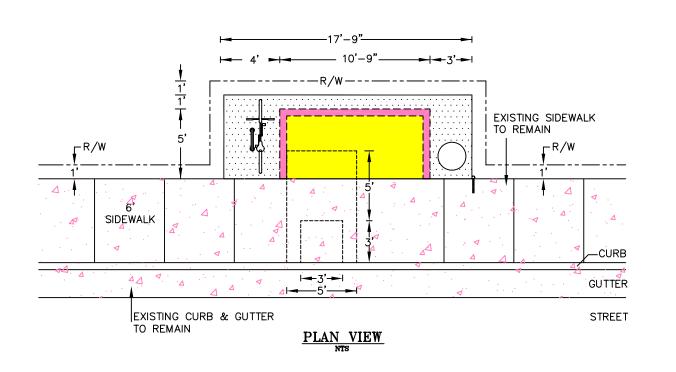
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CHARLOTTE-MECKLENBURG
LAND DEVELOPMENT
STANDARDS



WAITING PAD WITH 5'X10' BOX SHELTER WITH PLANTING STRIP

STD. NO. REV



NEW CONCRETE WAITING PAD 6" THICK

TRASH RECEPTACLE

SIGN

ADA SPACE

5X10 STRUCTURE

BICYCLE RIB RACK IF REQUIRED



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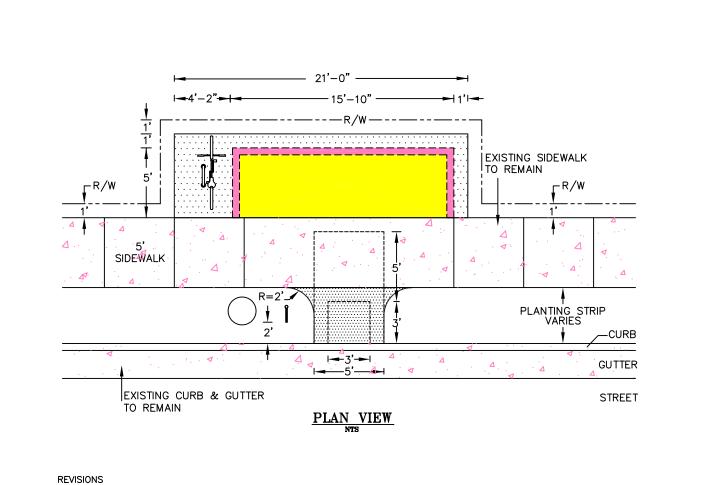
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CHARLOTTE-MECKLENBURG
LAND DEVELOPMENT
STANDARDS



## WAITING PAD WITH 5'X10' BOX SHELTER WITHOUT PLANTING STRIP

STD. NO. R



NEW CONCRETE WAITING PAD 6" THICK



NEW CONCRETE WAITING PAD 4" THICK



TRASH RECEPTACLE



SIGN



ADA SPACE

5X15 STRUCTURE



BICYCLE RIB RACK IF REQUIRED

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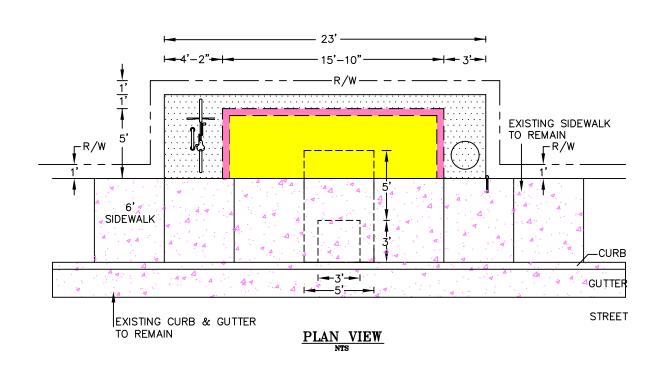
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CHARLOTTE-MECKLENBURG LAND DEVELOPMENT **STANDARDS** 



WAITING PAD WITH 5'X15' BOX SHELTER WITH PLANTING STRIP

l60.04A



NEW CONCRETE WAITING PAD 6" THICK

TRASH RECEPTACLE

SIGN

ADA SPACE

5X15 STRUCTURE

BICYCLE RIB RACK IF REQUIRED



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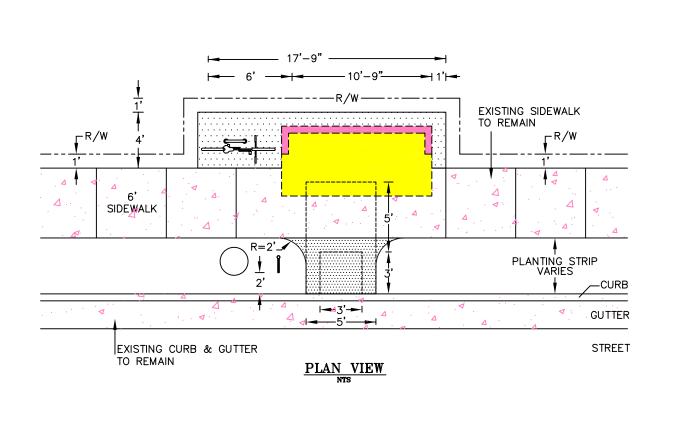
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CHARLOTTE-MECKLENBURG
LAND DEVELOPMENT
STANDARDS



## WAITING PAD WITH 5'X15' BOX SHELTER WITHOUT PLANTING STRIP

60.04B



NEW CONCRETE WAITING PAD 6" THICK

NEW CONCRETE WAITING PAD 4" THICK



TRASH RECEPTACLE

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SIGN

ADA SPACE

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5X10 STRUCTURE



BICYCLE RIB RACK IF REQUIRED

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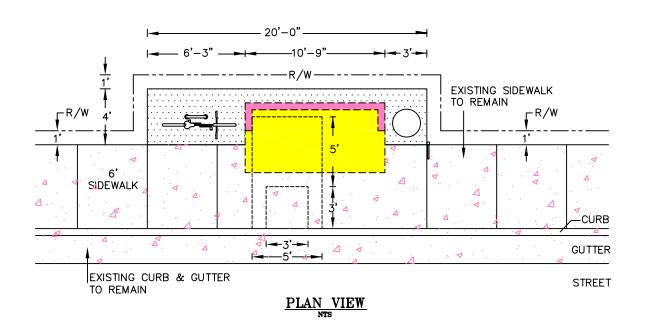
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CHARLOTTE-MECKLENBURG
LAND DEVELOPMENT
STANDARDS



WAITING PAD WITH 5'X10' CANTILEVER SHELTER WITH PLANTING STRIP

60.05A



NEW CONCRETE WAITING PAD 6" THICK

TRASH RECEPTACLE

SIGN

ADA SPACE

5X10 STRUCTURE

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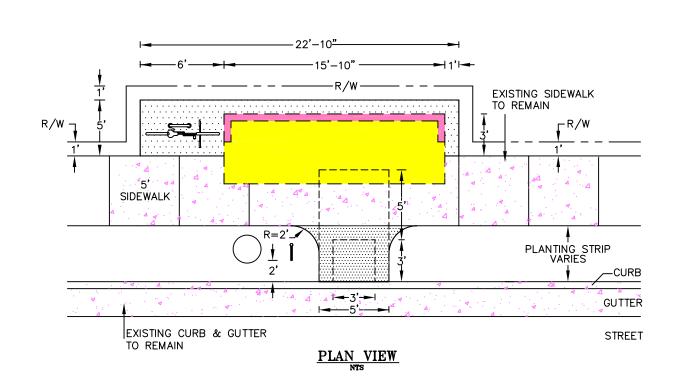
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CHARLOTTE-MECKLENBURG
LAND DEVELOPMENT
STANDARDS



WAITING PAD WITH 5'X10' CANTILEVER SHELTER WITHOUT PLANTING STRIP

STD. NO. REV



NEW CONCRETE WAITING PAD 6" THICK



NEW CONCRETE WAITING PAD 4" THICK



TRASH RECEPTACLE

SIGN

ADA SPACE

5X15 STRUCTURE





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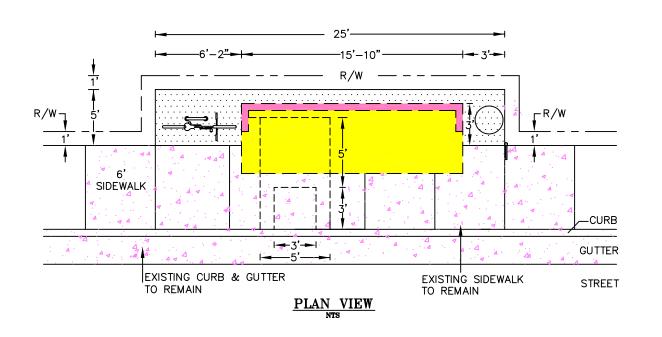
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CHARLOTTE-MECKLENBURG
LAND DEVELOPMENT
STANDARDS



WAITING PAD WITH 5'X15' CANTILEVER SHELTER WITH PLANTING STRIP

60.06A



NEW CONCRETE WAITING PAD 6" THICK

TRASH RECEPTACLE

SIGN

ADA SPACE

5X15 STRUCTURE BICYCLE RIB RACK IF REQUIRED



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CHARLOTTE-MECKLENBURG
LAND DEVELOPMENT
STANDARDS

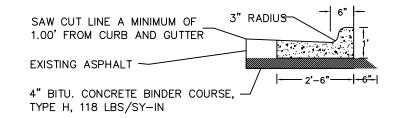


WAITING PAD WITH 5'X15' CANTLIVER SHELTER WITH PLANTING STRIP

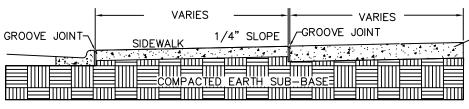
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### **GENERAL NOTES:**

- 1. A GROOVE JOINT 1" DEEP WITH 1/3" RADII SHALL BE REQUIRED IN THE CONCRETE SIDEWALK AT 5' INTERVALS. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 40' INTERVALS. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRÚCTURE.
- 2. ALL CONCRETE TO BE A MINIMUM 3600 P.S.I. COMPRESSIVE STRENGTH.
- 3. SIDEWALK AND PLANTING STRIP WIDTH VARIES DUE TO SITE LIMITATIONS AND EASEMENTS.
- 4. PAD DEPTH DEPENDS ON TYPE OF FACILITY IS TO BE LOCATED AT THE SITE. DEPTH OF THE PAD VARIES FROM 4' TO 8'.
- 5. THICKNESS OF THE CONCRETE SHALL BE 6" FOR THE BENCH/SHELTER PAD AND 4" FOR THE SIDEWALK.
- 6. ALL SPECIFICATIONS ARE BASED ON CHARLOTTE-MECKLENBURG LAND DEVELOPMENT STANDARDS.



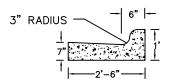
REPLACEMENT CURB AND GUTTER - AS NEEDED



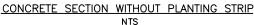
COMPRESSIVE STRENGTH

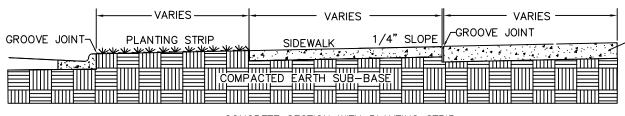
BENCH/SHELTER PAD

6" CONCRETE TO 3600 P.S.I



EXISTING CURB AND GUTTER 4" BINDER NOT NEEDED





BENCH/SHELTER PAD 6" CONCRETE TO 3600 P.S.I COMPRESSIVE STRENGTH

CONCRETE SECTION WITH PLANTING STRIP

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NO.	DATE	DESCRIPTION	

APPROVED DATE

CHARLOTTE-MECKLENBURG LAND DEVELOPMENT **STANDARDS** 



CONCRETE DETAILS

STD.	NO.	REV.
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ACCESSIBLE PROVISIONS: THE ALLOWANCES AND SPECIAL PROVISIONS OF INDIVIDUALS IN WHEELCHAIRS, AS WELL AS OTHERS WITH DISABILITIES, REQUIRE CERTAIN PHYSICAL IMPROVEMENTS WHICH ARE STANDARD TO ALL BUS STOPS. ALL BUS STOPS WILL REQUIRE AN ACCESS PAD LOCATED AT THE FRONT DOOR OF THE BUS. THE ACCESS PAD, AN AREA 3' BY 3', IS INTENDED TO ACCOMMODATE THE LIFT AS IT MEETS WITH THE BUS PAD PAVEMENT. THE ACCESS PAD NEED NOT BE DEFINED OR MARKED ON THE PAVEMENT, HOWEVER, CLEAR SPACE IS NECESSARY. IT IS CRUCIAL FOR THE SUCCESSFUL LIFT OPERATION THAT THE ACCESS PAD RUN PARALLEL TO THE ADJACENT BUS PAD ROAD GRADE. TYPICALLY, LIFTS MOVE VERTICALLY TO MEET THE ADJACENT GRADE WITHIN ONE TO THREE FEET OF THE BUS. THE LIFTS CANNOT ACCOMMODATE HORIZONTAL TORQUE. IN ADDITION TO THE ACCESS PAD, A CLEAR ZONE MUST BE PROVIDED SO THAT THE INDIVIDUAL IN THE WHEELCHAIR CAN MANEUVER OUT OF THE LIFT AND INTO THE STREAM OF PEDESTRIAN MOVEMENTS. THE CLEAR ZONE REQUIRES A MINIMUM OF A 5 BY 8' AREA AS MEASURED FROM THE BACK OF CURB. THE ACCESS PAD CAN BE PART OF THE CLEAR ZONE. THE CLEAR ZONE IS NOT REQUIRED TO BE MARKED OR DELINEATED. OTHER PEDESTRIAN USES MAY OVERLAP BOTH THE ACCESS PAD AND THE CLEAR ZONE, HOWEVER. TO BE ADA COMPLIANT ALL OBSTRUCTIONS MUST BE LOCATED OUTSIDE THE 40 SQUARE FOOT AREA.

BENCH PROVISIONS: ALL BENCHES SHALL BE A MIN. OF 4' LONG. BENCH BACKS AND END ARM RESTS ARE OPTIONAL. ALL BENCHES SHALL BE VANDAL PROOF, ROT, IMPACT, SCRATCH, WEATHER, FADE, INSECT, AND FUNGUS RESISTANT AND SELF EXTINGUISHING. ALL SURFACES SHALL BE A SMOOTH FINISH. ALL EDGES SHALL BE SMOOTH, EASED, AND

**REVISIONS** 

NO.	DATE	DESCRIPTION

CHARLOTTE-MECKLENBURG

LAND DEVELOPMENT

**STANDARDS** 

ROUNDED OR CHAMFERED. THE BENCHES SHALL BE MADE OF A MINIMUM OF 60 % POST CONSUMER RECYCLED MATERIAL. WOOD POLYMER COMPOSITE MATERIAL, POST CONSUMER PLASTIC, RECYCLED ALUMINUM, GALVANIZED STEEL, OR RECYCLED CAST IRON ARE RECOMMENDED. COLOR SHALL BE INTEGRAL TO MATERIAL COMPONENT, BAKED ON POWDER, POLYURETHANE ENAMEL AFTER WELDING. ALL FASTENERS SHALL BE STAINLESS STEEL OR PLATED AND SELF LOCKING OR HIDDEN TO DETER UNWANTED REMOVAL.

ALL BENCHES SHALL BE PERMANENTLY AFFIXED TO THE CONCRETE SLAB ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. NO PORTION OF THE BENCH OR SUPPORT SYSTEMS SHALL EXTEND INTO OR ONTO LAWN, PLANTED, OR SOIL SURFACES. ALL BENCHES SHALL BE PLACED PARALLEL TO THE ROAD AND SHALL BE SETBACK A MINIMUM OF 7'-6" FROM THE BACK OF CURB AND 3'-0" ON THREE SIDES OF THE CONCRETE PAD. THE FOURTH SIDE, FARTHEST FROM THE ROAD, SHALL HAVE A MINIMUM CLEARANCE OF 1'.

BIKE RIB: THE BIKE RIBS ARE TO BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS. A CONCRETE PAD WITH A DIMENSION OF 4'-00" BY 6'-00" IS REQUIRED TO ACCOMMODATE ONE BIKE RIB. ADDITIONAL BIKE RIBS CAN BE ADDED BY EXTENDING THE CONCRETE PAD 2'-00" BY 6'-00" PER BIKE RIB.

BUS SHELTER: ALL BUS SHELTERS SHALL BE DESIGNED TO MEET THE CURRENT BUILDING REQUIREMENTS ASSOCIATED WITH LOCAL BUILDING CODES INCLUDING THE ABILITY TO WITHSTAND SUSTAINED WINDS IN ACCORDANCE WITH LOCAL AND STATE BUILDING CODES. ALL SHELTERS SHALL BE CORROSION, RUST, AND WEATHER RESISTANT, AND SELF EXTINGUISHING. SHELTERS SHALL BE VANDAL PROOF, IMPACT AND SCRATCH RESISTANT. ALL WALL PANELS MUST BE REPLACEABLE AND OF STANDARD SIZE. ALL OPENINGS MUST BE ACCESSIBLE FROM AND ADJACENT TO THE SIDEWALK AND THE PASSENGER LOADING PAD. A MINIMUM OF 3'-0" WIDE PAVING SHALL CONNECT ALL OPEN SIDES OF THE SHELTER TO THE PASSENGER LOADING PAD. ALL FASTENERS USED ANCHORING DEVICES TO THE CONCRETE PAD SHALL BE MADE OF HOT

DIPPED GALVANIZED STEEL OR OF APPROVED EQUAL. FASTENERS SHALL BE SELF LOCKING AND MUST BE OF A TYPE WHICH CANNOT BE LOOSENED WITH READILY AVAILABLE TOOLS. FASTENERS SHALL BE HIDDEN WHENEVER POSSIBLE AND SHALL BE FLUSH WITH THE SURFACE CONNECTED. ALL SURFACES SHALL BE SMOOTH, FINISHED, AND FREE FROM BURRS, SHARP EDGES, SLIVERS, PROJECTIONS, NICKS, DENTS, AND OTHER IMPERFECTIONS.

ALL SHELTERS SHALL BE SUITABLE FOR MOUNTING ON A CONCRETE PAD BY SURFACE ANCHORS PER THE MANUFACTURER'S SPECIFICATIONS. THE CONCRETE PAD SHALL BE OF A STABLE, NONSKID SURFACE SLOPED TO DRAIN BUT NOT EXCEEDING 2% CROSS SLOPE OR 3% LONGITUDINAL SLOPE.

SIGN STANDARDS: THE EXTERIOR SIGNAGE SHALL MEET THE SPECIFICATIONS OUTLINED IN THE REPORT; BUS STOP SIGNAGE SPECIFICATIONS—LOW AND MEDIUM VOLUME STOPS, PROVIDED BY THE CHARLOTTE AREA TRANSIT SYSTEM (CATS).

LANDSCAPING FOR THE DEVELOPER: WHEN LANDSCAPING IS PROVIDED, LOW MAINTENANCE, WINTER HARDY, INDIGENOUS PLANT MATERIAL SHALL BE UTILIZED. SHRUBS SHALL NOT EXCEED 2'-6" IN HEIGHT. SHRUBS WHICH REQUIRE PRUNING TO MAINTAIN MAXIMUM HEIGHT ARE NOT RECOMMENDED. PLANTINGS SHALL BE PLACED TO DEFINE THE EDGE OF THE PASSENGER LOADING PAD AND TO ADD VISUAL INTEREST. SHRUBS SHALL NOT BE PLANTED ADJACENT TO THE BACK OF THE SHELTER.

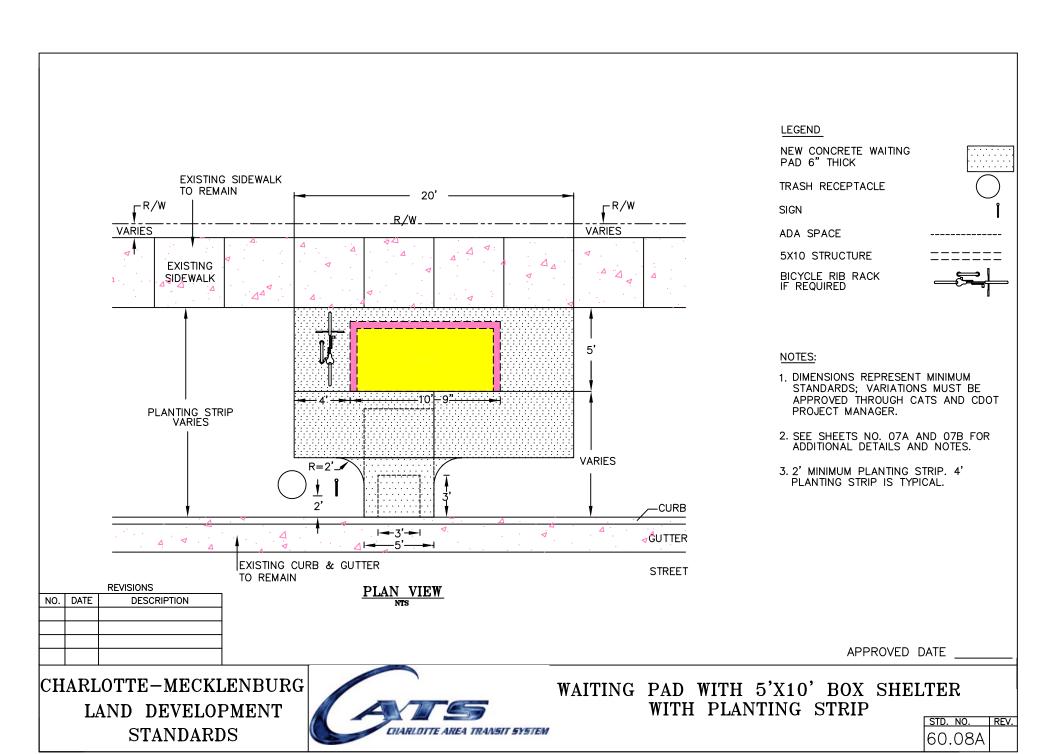
ORNAMENTAL TREES OR SMALL SHADE TREES ARE RECOMMENDED TO PROVIDE SHADE FOR PASSENGERS. TREES SHOULD BE PLANTED ON THE SOUTH OR WEST SIDES OF THE PASSENGER LOADING PAD WHENEVER POSSIBLE. TREE CANOPIES WHICH OVERHANG THE SHELTERS ARE DISCOURAGED. TREES SHOULD BE UPRIGHT IN HABIT AND SHOULD NOT PRODUCE FRUIT. BRITTLE HARDWOOD SPECIES ARE DISCOURAGED. TREES SHOULD BE PLANTED OUTSIDE THE PAVED AREA OF THE PASSENGER LOADING ZONE AND SIDEWALKS.

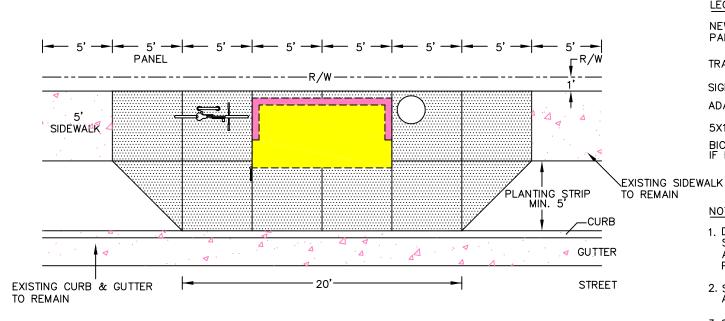
APPROVED DATE

# ACC CHARLOTTE AREA TRANSIT SYSTEM

ACCESSIBILITY PROVISIONS AND OTHER NOTES

STD. NO. REV. 60.07B





 $\frac{PLAN\ VIEW}{\text{nts}}$ 

### LEGEND

NEW CONCRETE WAITING PAD 6" THICK

TRASH RECEPTACLE

SIGN

ADA SPACE

5X10 SHELTER

BICYCLE RIB RACK IF REQUIRED



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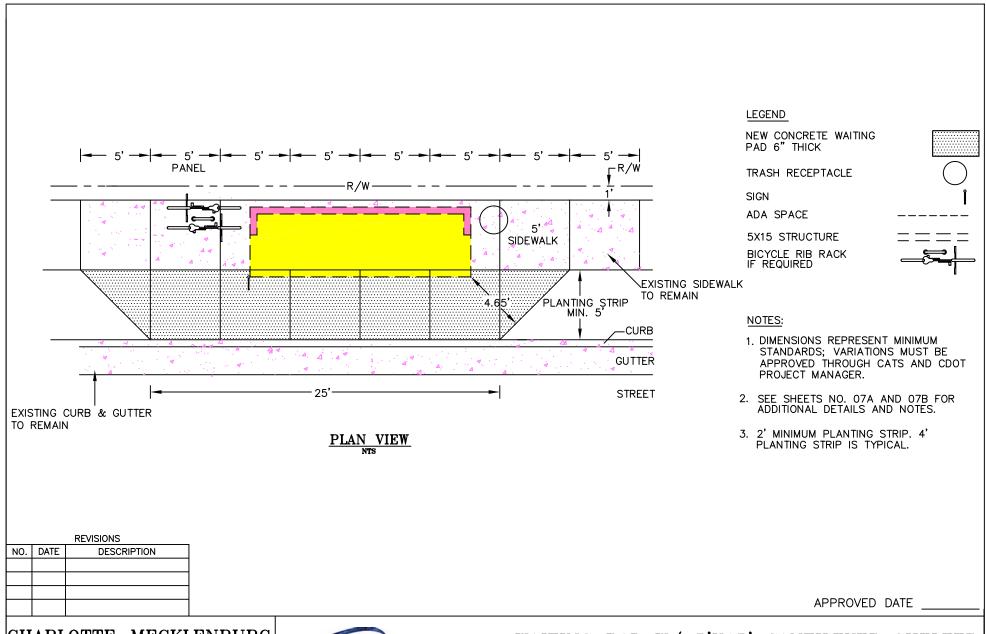
APPROVED DATE

CHARLOTTE-MECKLENBURG LAND DEVELOPMENT **STANDARDS** 



WAITING PAD W/ 5'X10' CANTILEVER SHELTER WITHOUT PLANTING STRIP

60.09A

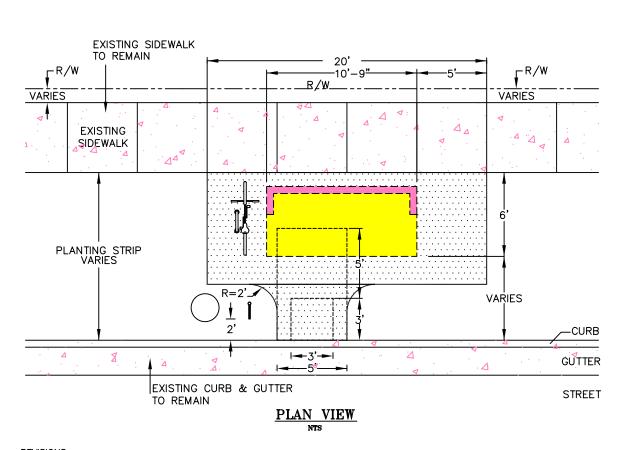


CHARLOTTE-MECKLENBURG
LAND DEVELOPMENT
STANDARDS



WAITING PAD W/ 5'X15' CANTILEVER SHELTER WITHOUT PLANTING STRIP

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NEW CONCRETE WAITING PAD 6" THICK

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5X10 STRUCTURE

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CHARLOTTE-MECKLENBURG
LAND DEVELOPMENT
STANDARDS



WAITING PAD
WITH 5'X10' CANTILEVER SHELTER
WITH PLANTING STRIP

60.10A