GENERAL NOTES

TRAFFIC PATTERN ALTERATIONS

N) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- O) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- P) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

Q) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

- R) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- S) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 500 FT. IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC BARRIER

T) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRANSPORTATION MANAGEMENT PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.

ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE TEMPORARY BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS. REMOVE / RESET TEMPORARY BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS, TEMPORARY BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER.

INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY BARRIER AGAINST THE TRAFFIC FLOW BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

U) PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER AT ALL TIMES DURING THE INSTALLATION AND REMOVAL OF THE BARRIER BY EITHER A TRUCK MOUNTED ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.

PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS: (SEE ALSO 1101.05)

POSTED SPEED LIMIT	MINIMUM OFFSE
40 OR LESS	15 FT
45 - 50	20 FT
55	25 FT

PROJECT NOTES

TRAFFIC CONTROL DEVICES

- V) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT. 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.
- W) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- X) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES (DRUMS/CONES/SKINNY DRUMS) PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

Y) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	<u>MARKING</u>	<u>MARKER</u>
ALL ROADS	PAINT (ON ASPHALT)	TEMPORARY RAISED
	COLD APPLIED PLASTIC -	
	TYPE IV (ON CONCRETE)	

- Z) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.
- AA) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- BB) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
- CC) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE DRUMS TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION.

MISCELLANEOUS

- DD) LAW ENFORCEMENT SHALL BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.
- EE) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 250 FT. AND 500 FT. RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.
 - * TEMPORARY TIE-INS USING ABC STONE WILL NOT BE PERMITTED ON THE FOLLOWING ROADS:
 - -LALT-/ALSTON AVENUE (NC 55)
 - -YA-/DURHAM FREEWAY (NC 147)
 - ALL RAMPS
 - -Y2-/ANGIER AVENUE (SR 1926)
 - -Y4- & -Y5-/MAIN STREET
 - -Y15-/TAYLOR STREET
 - -Y18-/LIBERTY STREET

AND REOPENING OF SIDEWALK.

- -Y22-/HOLLOWAY STREET (US 70 BUS / NC 98)
- FF) ALL WHEELCHAIR RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.
- GG) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.).
- HH) ADJUST SIDEWALK CLOSURE AND PEDESTRIAN DETOUR SIGNING AS REQUIRED AND AS DIRECTED BY THE ENGINEER. RELOCATE SIGNING TO ADJACENT STREETS AS NECESSARY DUE TO SIDEWALK CLOSURES AND ACTIVE WORK AREAS THROUGH THE DURATION OF THE PROJECT. REMOVE PEDESTRIAN DETOUR SIGNING UPON COMPLETION **DOCUMENT NOT CONSIDERED FINAL**

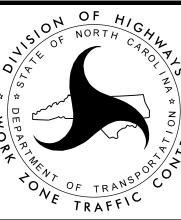
UNLESS ALL SIGNATURES COMPLETED

- PROJ. REFERENCE NO. SHEET NO. TMP-2A HDR Engineering, Inc. of the Carolinas 3733 National Drive, Suite 207 Raleigh, N.C. 27612 N.C.B.E.L.S. License Number: F—0116
- II) CONTRACTOR SHALL COORDINATE WITH TRIANGLE TRANSIT AUTHORITY (TTA) AND DURHAM AREA TRANSIT AUTHORITY (DATA) PRIOR TO ANY STREET CLOSURES AND/ OR WORK THAT WILL IMPACT EXISTING BUS ROUTES AND BUS STOPS. ANY STOPS OR ROUTES THAT WILL BE IMPACTED BY CONSTRUCTION ACTIVITIES MUST BE TEMPORARILY CLOSED OR RELOCTED PRIOR TO BEGINNING WORK IN THAT LOCATION
- JJ) EXISTING SCHOOL ZONE FLASHERS MUST BE MAINTAINED THROUGHOUT CONSTRUCTION PER THE ENGINEER, RELOCATE FLASHERS AS NECESSARY TO ACCOMMODATE TRAFFIC SHIFTS DURING CONSTRUCTION.
- KK) CONTRACTOR SHALL COORDINATE WITH ADJACENT NCDOT PROJECTS U-0071 AND I-3306A TO ENSURE CONFLICTING DETOUR ROUTES ARE NOT PROPOSED FOR CONCURRENT ACTIVITIES.
- LL) CONTRACTOR SHALL COORDINATE WITH CITY OF DURHAM, AVONDALE ROAD SIDEWALK PROJECT TO ENSURE U-3308 DEOUR ROUTES AND SIGNING DO NOT CONFLICT WITH THE WORK ZONE ACTIVITIES FOR THE SIDEWALK PROJECT.

LOCAL NOTES

- LN-01) WHEN REMOVING EXISTING BRIDGE AND HANGING PROPOSED GIRDERS ON -LALT-BRIDGE, AT NIGHT CLOSE -YA- (NC 147) USING RSD 1101.03, SHEET 7 OF 9. AND CLOSE -LALT- (NC 55) USING RSD 1101.03, SHEET 1 OF 9. USE LAW ENFORCEMENT AND/OR DETOUR SIGNING, AS DIRECTED BY THE ENGINEER TO MAINTAIN NC 55 AND NC 147 TRAFFIC ALONG THE DETOUR ROUTES. (SEE SHEET TMP-2AV FOR DETOUR ROUTES).
 - * NOTE ROAD CLOSURES FOR THIS WORK MAY NOT BE IMPLEMENTED CONCURRENTLY WITH THE ROAD CLOSURES FOR -Y- AND RAIL BRIDGE WORK OVER -LALT-, AS NOTED IN LOCAL NOTE LN-02, OR DURING THE CLOSURE OF RAMPS -R1-, -R2-, -R3, OR -R5-.
- LN-02) WHEN REMOVING EXISTING BRIDGES AND HANGING PROPOSED GIRDERS ON -Y-(PETTIGREW STREET) BRIDGE, NORFOLK SOUTHERN RAILROAD BRIDGE, AND CSX RAILROAD BRIDGE, CLOSE -LALT- (NC 55) AT NIGHT USING RSD 1101.03, SHEET 1 OF 9. USE LAW ENFORCEMENT AND/OR DETOUR SIGNING, AS DIRECTED BY THE ENGINEER TO MAINTAIN NC 55 TRAFFIC ALONG THE DETOUR ROUTES. (SEE SHEET TMP-2D FOR DETOUR ROUTE)
 - * NOTE ROAD CLOSURES FOR THIS WORK MAY NOT BE IMPLEMENTED CONCURRENTLY WITH THE ROAD CLOSURES FOR -LALT- BRIDGE WORK OVER -YA-, AS NOTED IN LOCAL NOTE LN-01.
- LN-03) COORDINATE WITH DURHAM RESCUE MISSION FOR ALL WORK ON NC 55 (ALSTON AVENUE), MAIN STREET, AND MORNING GLORY AVENEUE. DURING THE TIME OF COMMUNITY EVENTS ORGANIZED AND CONDUCTED BY THE MISSION, DO NOT CLOSE ROADS OR TRAVEL LANES ADJACENT TO DURHAM RESCUE MISSION IN A MANNER THAT WOULD DISRUPT THE SETUP AND OPERATIONS OF EACH EVENT.
 - * YEARLY COMMUNITY EVENTS CONDUCTED BY THE MISSION INCLUDE:
 - BACK TO SCHOOL (AUGUST)
 - EASTER
 - THANKSGIVING - CHRISTMAS
- WORK ADJACENT TO EASTWAY ELEMENTARY SCHOOL ON -Y15 (TAYLOR STREET) AND -Y17- (HOPKINS STREET) SHALL BE CONDUCTED WHILE THE SCHOOL IS NOT IN SESSION SO AS TO NOT DISRUPT DAILY SCHOOL ACTIVITIES. REFER TO THE DURHAM PUBLIC SCHOOL CALENDAR FOR YEARLY SCHEDULES. PROVIDE ADVANCE NOTIFICATION TO THE SCHOOL OF ALL ROAD CLOSURES.
- PROVIDE INGRESS AND EGRESS TO LOS PRIMOS SUPERMARKET VIA -Y6-(MORNING GLORY AVENUE) TO NC 55 (ALSTON AVENUE) AT ALL TIMES FOR DELIVERY TRUCK ACCESS. PROVIDE TEMPORARY ACCESS BY USE OF ABC OR ASPHALT BASE COURSE. COORDINATE WITH LOS PRIMOS TO ALLOW DELIVERY TRUCKS THROUGH THE WORK AREA FOR ACCESS TO/FROM THE SUPERMARKET.
- PROVIDE INGRESS AND EGRESS TO SAV-A-LOT GROCERY STORE VIA -Y16-(HOPKINS STREET) TO NC 55 (ALSTON AVENUE) AT ALL TIMES FOR DELIVERY TRUCK ACCESS. PROVIDE TEMPORARY ACCESS BY USE OF ABC OR ASPHALT BASE COURSE. COORDINATE WITH SAV-A-LOT TO ALLOW DELIVERY TRUCKS THROUGH THE WORK AREA FOR ACCESS TO/FROM THE GROCERY STORE.





PROJECT NOTES

60 MPH or HIGHER

30 FT