MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY
MCDONALD COUNTY
JOB ORDER CONTRACTING

CONVENTIONAL SYMBOLS
(USED IN PLAN)

EXISTING NEW

BUILDINGS AND STRUCTURES

GUARD RAIL
CONCRETE RIGHT-OF-WAY MARKER
STIRRUP RIGHT-OF-WAY MARKER
POWER METAL TRAFFIC MARKER

UTILITY

FRIENDS OFFICE
OVERHEAD TELEPHONE
UNDERGROUND TELEPHONE
OVERHEAD POWER
UNDERGROUND POWER

GAS
WATER

MANHOLE
FIRE HYDRANT
WATER VALVE
WATER METER
DROP INLET
DITCH BLOCK
GROUND MOUNTED SIGN
LIGHT POLE
H-FRAME POWER POLE

TELEPHONE POLE
FENCE
CHAIN LINK
WIRE MESH
CURB POST
MARKER

NOT TO SCALE

THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES SHOWN ON THE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THE TIME. THIS INFORMATION IS PROVIDED FOR THE COMMISSION'S USE ONLY AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

LENGTH OF PROJECT

BEGINNING OF PROJECT
LM 169,584

END OF PROJECT
LM 183,984

APPEARENT LENGTH
84,396.4 FEET

EQUATIONS AND EXCEPTIONS

TOTAL CONVEYORS
8.03 FEET

TOTAL LENGTH OF PROJECT
169,360.4 FEET

STATE LENGTH
32.258 MILES

FOR INFORMATION ONLY
ESTIMATED DISBURSED ACRES
N/A ACRES
### Sign Spacing, Device Spacing and Channelizing Taper Lengths

<table>
<thead>
<tr>
<th>Minimum Taper Lengths (L)</th>
<th>Maximum Channelizer Spacing (LC)</th>
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<tbody>
<tr>
<td>10 ft</td>
<td>12 ft</td>
</tr>
<tr>
<td>0.35</td>
<td>205</td>
</tr>
<tr>
<td>40-45</td>
<td>450</td>
</tr>
<tr>
<td>50-55</td>
<td>550</td>
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<tr>
<td>60-70</td>
<td>700</td>
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</table>

### Longitudinal Buffer Space (B)

<table>
<thead>
<tr>
<th>Speed (MPH)</th>
<th>Buffer Space (Feet)</th>
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<tbody>
<tr>
<td>0.35</td>
<td>280</td>
</tr>
<tr>
<td>40-45</td>
<td>400</td>
</tr>
<tr>
<td>50-55</td>
<td>560</td>
</tr>
<tr>
<td>60-70</td>
<td>840</td>
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</tbody>
</table>

### Sign Spacing (S) for Advance Sign Series (1) (2)

<table>
<thead>
<tr>
<th>Speed (MPH)</th>
<th>Undivided highways (Feet)</th>
<th>Divided highways (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.35</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>40-45</td>
<td>350</td>
<td>300</td>
</tr>
<tr>
<td>50-55</td>
<td>500</td>
<td>1000</td>
</tr>
<tr>
<td>60-70</td>
<td>1000</td>
<td>5A-1000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SA-1500</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SB-2500</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SC-2640</td>
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</tbody>
</table>

### Taper Length (L): 1) 85% FOR 40 MPH OR MORE 2) 50% FOR 35 MPH OR LESS FOR SHOULDER TAPER USE (L3)

### Where:

- L = Taper Length in Feet
- M = Lateral Shift in Feet
- S = Posted Speed in MPH

### Notes:

- Dimensions in Feet unless otherwise noted.
- 1) Spacing between signs and spacing between last sign and flagger, beginning of taper, or signed condition
- 2) Spacings may be adjusted as necessary to meet field conditions

### Traffic Control Devices

**General Notes:**

1. See standard plan $18.10 for details and items not shown.
2. Existing signs shall be covered during working hours only if in conflict with traffic control plans.
3. No direct payment will be made for relocating, covering, uncovering or removing signs.
4. Cones allowable for daytime operations only.

### Traffic Control Legend

- □ Sign (single-sided)
- □ Sign (double-sided)
- □ Flagger
- □ Directional Indicator Barricade
- □ Channelizer
- □ Barricade
- □ Changeable Message Board
- □ Truck Mounted Attenuator
- □ Flashing Arrow
WORK BEYOND RIGHT SHOULDER - UNDIVIDED OR DIVIDED ROADWAYS

NOTES:
USED FOR WORK THAT OCCURS OFF THE ROADWAY SHOULDER BUT WITHIN THE CLEAR ZONE.
NOT TO BE USED WHEN WORK VEHICLES ARE PARKED ALONG THE SHOULDER EVEN WHEN
THE WORK IS BEING PERFORMED OFF THE SHOULDER.

SEE TCP SHEET 1 FOR SIGN SPACING AND TAPER LENGTHS.
FOR DIVIDED ROADWAYS, SIGNS SHALL BE PROVIDED ON LEFT
AND RIGHT SIDE OF ROADWAY WITH DOWNSTREAM SIGN BEING
OMITTED.

SHOULDER WORK - UNDIVIDED ROADWAYS

NOTES:
USED FOR WORK ON SHOULDER OR FOR WORK OFF SHOULDER
WITH WORK VEHICLES PARKED ON THE SHOULDER.

SEE TCP SHEET 1 FOR SIGN SPACING AND TAPER LENGTHS.
RIGHT SHOULDER WORK - HIGH SPEED DIVIDED ROADWAYS

NOTES:
SEE TCP SHEET 1 FOR SIGN SPACING AND TAPER LENGTHS.

USED FOR WORK ON SHOULDER OR FOR WORK OFF SHOULDER WITH WORK VEHICLES PARKED ON THE SHOULDER OF A HIGH SPEED ROADWAY.

RIGHT SHOULDER WORK
MULTI-LANE FREeways WITH MEDIAN BARRIER

NOTES:
SEE TCP SHEET 1 FOR SIGN SPACING AND TAPER LENGTHS.
LEFT SHOULDER WORK - HIGH SPEED DIVIDED ROADWAYS

NOTES:

SEE TCP SHEET I FOR SIGN SPACING AND TAPER LENGTHS.

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ONE-LANE TWO-WAY OPERATION WITH FLAGGERS

NOTES:

SEE TCP SHEET I FOR SIGN SPACING AND TAPER LENGTHS.
NOTES:
SEE TCP SHEET 1 FOR SIGN SPACING AND TAPER LENGTHS.

SINGLE LANE CLOSURE

PARTIAL RAMP CLOSURE

NOTES:
SEE TCP SHEET 1 FOR SIGN SPACING AND TAPER LENGTHS.
NOTES:
SEE TCP SHEET 1 FOR SIGN SPACING AND TAPER LENGTHS.

(1) SIGN ONLY REQUIRED WHEN RAMP WIDTH IS REDUCED.

(2) THE LOCATION OF THE SIGN SEQUENCE AND MERGE TAPER SHOULD BE ADJUSTED SO THAT THE ARROW PANEL LOCATION IS NOT CONFUSING TO MOTORIST ON THE RAMP.

ENTRANCE RAMP AREA
MAINLINE WORK

NOTES:
SEE TCP SHEET 1 FOR SIGN SPACING AND TAPER LENGTHS.

(1) SIGN ONLY REQUIRED WHEN RAMP WIDTH IS REDUCED.

(2) SIGN SHOULD BE PLACED ON THE RAMP TO PROVIDE ADEQUATE VISIBILITY OF MAINLINE TRAFFIC.

(3) THE LOCATION OF THE SIGN SEQUENCE AND MERGE TAPER SHOULD BE ADJUSTED SO THAT THE ARROW PANEL LOCATION IS NOT CONFUSING TO MOTORIST ON THE RAMP.

(4) CHANNELIZER SPACING AT 30'.

ENTRANCE RAMP AREA
ACCELERATION LANE WORK
**NOTES:**

SEE TCP SHEET 1 FOR SIGN SPACING AND TAPER LENGTHS.

(1) SIGN ONLY REQUIRED WHEN RAMP WIDTH IS REDUCED.

(2) CHANNELIZER SPACING AT 50'.
RAMP CLOSURE

NOTES:
SEE TCP SHEET 1 FOR SIGN SPACING AND TAPER LENGTHS.
(1) CHANNELIZER SPACING AT 50'.

RAMP CLOSURE

NOTES:
SEE TCP SHEET 1 FOR SIGN SPACING AND TAPER LENGTHS.
(1) CHANNELIZER SPACING AT 50'.
Notes:
See TCP Sheet 1 for sign spacing and taper lengths.

Double Lane Closure

Notes:
See TCP Sheet 1 for sign spacing and taper lengths.

Interior Lane Closure