CITY OF NATIONAL CITY STANDARD TRAFFIC CONTROL NOTES
ALL REFERENCES TO THE "CITY" SHALL EXPLICITLY
REFERTOTHE "CITY OE NATIONAL REFERENCES TO THE "DEPARTMENT" SHALL XPLLCITLY REEER TO THE "ENGINEERING \& PUBLL
WORKS DEPARTMENT" AND THE DEPARTMENT'S APPOINTED REPRESENTATIVE(S).
2. INSTALLATION OA ALL TRAFFIIC CONTROL SHALL BE
THE RESPONSIBLITY OF THE CONTRACTOR AND SHALL CONFORM TO THE MOST RECENT EDITION O THE FOLLOWING STANDARD PLANS AND
a. CALIFORNIA

CONTROL DMVICES (MUTCD) RM TRAFFIC
b. SAN DIEGO AREA REGIONAL STANDARD
DRAWINGS (SDRSD), APPENDIX A- TRAFFIC CONTROL PLANSD.
CTAPENDIX A - TRAFF
c. STATE OF CALIFORNIA DEPARTMENT OF
TRANSPORTATION (CALTRANS) STANDARD PLANS

TRANSPORTATION (CALTRANS) STANDARD
d. STATE OF CALIFORNI DEPARTMENT OF
TRANPORTATAO (CALTRANS) STANIRD TRANSPORTATION (CALTRANS) STANDARD
SPECIFICATIONS e. STANDARD STECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOK), NCLUDNG ALL
CURRENT SUPPLEMENTS. TRAFFIC CONTROLPLANS SHAL THE DEPARTMENT A MINIMUM OF 2 WEEKS IN IMPROVEMENT PROJECTS AND A MINIMUM OF 30 DAY IN ADVANCE FOR ALL OTHER PROJECTS. THE
CONTRACTOR SHALL CONSIDER CURRENT OR PLANNED CONSTRUCTION ACTVITIES WITHIN OR NEAR THE PROPOSED WORK ZONE WHEN PREPARING THE TRAFFIC CONTROL PLAN AND SHALL COORRINAT
CONSTRUCTION ACTVIVIIES IN ADVANCE AS TO MINIIIZE IMPACTS.
AN APPROVED TRAFFIC CONTROLPLAN AND CONSTRUCTION PERMIT(S) ARE REQUIRED PRIOR TO COMMENCING WORK. APPROVAL OF THE TRAFFIC PERMIT. a. THE CONTRACTOR SHALL OBTAIN A No-COST" PERMIT FROM THE DEPARTMENT FOR CITY CAPITAL IMPROVEMENT PROJECTS
ERMITS FOR ALL OTHER PROJECTS SHA
 CITr'S LATEST ADOPTED FEE SCHEDU DEPARTMENT ARE VALID FOR WORK WITHIN T CITY'S RIGHT OF WAY ONLY; THEREFORE, TEMPORAR TRAFFIC CONTROL SHAL
PROPERTY.
6. CONTRACTCR SHALL OBTAIN A SEPARATE PERMIT NEEDS TO BE INSTALLED WITHIN CALTRANS' RIGHT OF
7. A COPY OF THE TRAFFIC CONTROL PLAN AND PERMIT, INCLUDING ANY PERMIT EXTENSIONS ISSUED BY THE
CITY, MUST BE KEPT ON THE JOB SITE AT ALL TIMES. 8. THE DEPARTMENT RESERVES THE RIGHT TO OBSERVE DIRECT THE CONTRACTOR TO MAKE CHANGES AS FIELD CONDITIONS WARRANT TO ENSURE SAFETY OF 9. THE DEPARTMENT WILL IMMEDIATELY SHUT DOWN WORK IN THE EVEN THE CONTRACTOR FALLS TO PLANS ANDIOR CREATES AN UNDUE SAFETY HAZARD. THE HOURS OF 7 ACTOMMTTES SHALL BE LIMITED TO HROUGS OF 7:00 AM THROUGH $5: 00$ PM, MONDAY
HROUS UNLESS OTHERWISE SPECIFICALY APPROVED BY THE DEPARTMEN.
ALL NIGHT WORK REOURES
APPROVAL FROMTHE DIRES PRIOR WRITTEN APR ROVAL FROM THE DEPARTMENT AND SHALL

INCLUDE THE USE OF LIGHTED BARRICADESS TRAFIC | OONTROL DRUMS OR OTHER DEVICES AS APPROVED |
| :--- |

2. CONSTRUCTION ACTVITIIES MAY BE RESTRICTED
FOR SPECIFIC TIME PERIODS TO MINIIIZE IMPACTS PEAK HOUR TRAFFIC, SCHOOL DROP-OFFIPICK-UP,
SPECIAL EVENTS ETC SPECIAL EVENTS
DEPARTMENT. DEPARTMENT.
3. CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED IN
SUCH MANNER AS TO CAUSE ASITTE SUCH A MANNER AS TO CAUSE AS LITTLE
INCONVENENCE AS POSSIBLE TO ADJACENT PROPERTY OWNERSTIENANTS.
4. TEMPORAR STREET COSLUSES REQUIRE PRIOR
APPROVAL BY THE DEPARTMENT. THEREFORE THE APPROVAL BY THE DEPARTMENT. THEREFORE, THE
CONTRACTOR SHALL SUBMIT ALL REQUESTS FOR TEMPORARY STREET CLOSURES, INCLUDING A
 APPROVED, THE CONTRACTOR SHALL NOTIFY BOTH THE DEPARTMENT AND NATIONAL CITY FIRE DEPARTMENT A MNMMUM OF 1 WEEK IN ADVANCE OF
THE CLOSURE, AND IMMEDATELY AFTER RE-OPENING THE STREET.
5. COONRACTOR SHALL NOTIFY ALL AFFECTED
PROPETY OWNERSTTENANTS OF THE PROJE

 HANGERS, AS APPROVED BY THE DEPARTMENT. 6. CONTRACTOR SHALL NOTIFY ADJACENT PROPERTY
OWERSTTNATS A MNMUM OF WEEK IN ADVANCE OF STARTING CONSTRUCTION ON THERER BLOCK. ADVANCE WARNING SIGNS SHALL BE PLACEDA
MINIMUM OF 1 WEEK IN ADVANCE OF STARTING CONSTRUCTION
6. COTTRACTON SHALL NOTIFY SAN DIEGO 1 M WEEKIN ADVANCE OF CONSTRUCTION AFFECTING BUSERTOPA.
BUS
THE CONTR
7. THE CONTRACTOR SHALL INSTALL CLEARLY MARKED SIGNS WITHIN WORK ZONES IDENTIFYYNG THE CONTRACTOR'S NAME AND 24-HOUR EMERGENCY REPORT ANY ISSUES WITH CONSTRUCTION ACTIVITIES
 SUCP SITMENT.
8. EMERGENCY VEHICLE ACCESS SHALL B MAINTAINED AT ALL TIMES.
9. DRIVEWAY ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES UNLERS PRIOR ARRANGEMENTS ARE MADE WTH THE AFFECTED
PROPERTY OWNERSTENANTS AND AS APPROVED BY PROPERTY OWNERSIENANTS, AND AS APPROVED
THE DEPARTMENT.
10. CONTRACTOR SHALL COMPLY WITH THE LATEST 21. CONTRACTOR SHALL COMPLY WITH THE LA
REQUIREMENTS OF THE AMERICANS WITH DISABILTIES ACT (ADA) TO MAIITAIN SAFE PEDESTRIAA ACCEES, INCLIDING ACCESS FOR PERSONS WITH DISABLITIIES, THROUGH AND/OR
AROUND WORK ZONES. TYPICAL MEASURES INCLUD BUT ARE NOT LMITED TO, USE OF FLAGGERS TO STOP ANAFIC, CONSTRUCTION OF TEMPORARY PATHWAVS THAT PROVIDE BUFFERS FROM OPEN TRENCHES, EQUPMENT AND TRAFFIC, AND USEN OF ADVANCED WARNING SIGNS WITH DIRECTIONAL
ARROWS LEADING PEDESTRIANS TO ALTERNATVE, NEARBY CROSSING LOCATIONS.
11. ALL CONSTRUCTION WORKERS SHALL WEAR HARD
HATS AND HIGH-VIIBIILTY SAFETY APPAREL OR REFLECTVVE VEST AT NIGHT) AT ALL TIMES, CONSISTENT WITH
SPECIFICATIONS.
SPECIFICATINSS.
12. CONTAACTOR SHALL SET UP TEMPORARY TRAFFIC
CONTROL AT THE BEGINNING OF EACH WORC CONTROL AT THE BEGINNING OF EACH WORK DAY
AND PROMPTLY REMOVE AT THE END OF EACH AND PROMPTLY REMOVE AT THE END OF EACH DAY
TO ALLOWFOR NORMAL TRAFFIC OPERATIONS AFTER
WORK HOURS REQUESTS TO MAITAN TEAPORARY
 TRAFFIC CONTROL AFTER HOURS MUS
PRE-APPROVED BY THE DEPARTMENT.
13. CONTRACTOR SHALL MAINTAIN ALL TRAFFIC CONTROL DEVICES IN "LIKE NEW" CONDITION AT ALL | Contro |
| :--- |
| TIMES. |
14. CONTRACTOR SHALL IMPLEMENT AND MAINTAIN
STORM WATER BEST MANAGEMENT PRACTCES

STORM WATER BEST MANAGEMENT PRACTICES
(BMPS) ATALLTMES TMAN
26. ALL DRT. DUST AND DEBRIS SHAL BE
26. ALL IITRT, URSTT, AND DEBRIS SHALL BE COMPLETELY
REMOVED FROMTHE WORK ZONE AT THE END OF REACH DAY, TO THE SATISFACTION OF THE
DPPATMEN. DDePARTMENT.
27 ALL STREETS SHALL BE KEPT IN A DRIVABLE
CONDITION AT ALL TMES
CONDITION AT ALL TIIES
28. ALITRAVEL LANES SHALL BE A MINIMUM OF 12 FEET
WIDE 14 EEETIF ADACENTO WIDE, 14 FEETII ADSACENT TO BIK LANESU UNLE
OTHERWISE SPECIFICALLY APPROVED BY THE OTERERWISE
DEPARTMENT
29. ALTAVEL
29. ALL TRAVEL LANES SHALL HAVE A MINMUM OF 5
FEET OF CLEARANCE FROM OPEN TRENCHES AND A FEET OF CLEARANCE FROM OPEN TRENCHES ANDA
MINIMM OF 2 FEET OF CLEARANCE FROM VERTICAL
 BARRIERS WITH TEMPORARY CRASH CUSHION END TREATMENTS PER THE LATEST STANDARD PLANS AND
SPECIFICATIONS, AND TO THE SATISFACTION OF THE SPECIFIICATIO
DEPARTMENT
30. ALL OPEN TRENCHES SHALL BE BACK-FILED OR CONSISTENT WITH THE LATEST STANDARD PLANS AND SPECIFICATIONS, AND TOTEST SATANDARD PLANS AND DEPARTMENT
31. STEEL PLATES SHALL BE SKID-RESIITANT AND HAVE AN ASPHALIC RAMP ON ALL EDGES TO SECURE THE VEHICLES AND BICYCLESS. THE DEPARTMENT MAY
 32. CONTRACTOR SHALL POST "UNEVEN LANES" (W8-11)
 INCH OR GREATER. PAVEMENT DISRUPTIONS OF 1 1/
INCH OR GREATER SHALL HAVE BEVELED EDGES OF 4:1 (HORIZONTAL TO VERTICAL).
33. TRAFIIC CONRTOL LEVVICEES SHALL NOT OBSTRUCT
VISIBLITY AT DRIVEWAYS AND SHALL BE REMOVED VIIBIIITY AT DRIVEWAYS AND SHALL BE REMOVED
FROM VIEW OR COVERED WHEN NOT IN USE. 34. ALL CONFLICTING SIGNS SHALL BE COVERED DURING
35. CONTRACTOR SHALL MAINTAIN A MINIMUM TURNING RADIUS OF 25' AT CORNERS OF WORK ZONES. 36 FOR EXTENDED WORK ZONES IN COMMERCI
DISTRICTS THE CONTRACTOR SHAL PLACE DISTRICTS THE CONTRACTOR SHAALL PLACE
"BUIIESSES OPEN DURING CONSTRUCTION" SIGNS
ILACK (BLACK ON WHITT BACKGROUNDD AT INTERVALS OF
150 ' OR TWO PER CITY BLOCK) MORE EREQLENT 50' (OR TWO PER CITY BLOCK). MORE RREQU
SIGPLACEMENT MA
SEREQUIRED AT THE
DIRECTION OF THE DEPARTMENT.
37. WHEN ESTABLISHMENT OF TEMPORARY NO PARKING
ZONES ARE REQUIRED TO FACLITOTE CONSTRUCTION, THE CONTRACTOR SHALL POST TOW-AWAYYO PARKING SIGNS 72 HOURS IN
ADVANCE. THE SIGNS SHALL BE PLACD ON TYPE ॥ BARRICADES WITHIN THE PROPOSED TEMPORARY NO
PARKING ZONE. CLEARLY VIIBLE TO THE PUBLIC. THE PARKING ZONE, CLEARLY VIIBLE TO THE PUBLIC.
SIGNS SHALL INCLUDE THE DATES, DAYS OF THE SIINS SHALL INCLUDE THE DATES, DAYS O THE THE
WEEK, AND TIME OF DAY FOR THE TEMPORARY
PARKNG PROOHTION PARKING PROHIBITIIN.
38
38. WARNING (W) SERIES SIGNS USED IN WORK ZONES
SHALL BE BLACK ON SHALL EE BLACK ON ORANGE BACKGROUND
CONSISTENT WITH THE LATEST STANDARD PLANS AND SPECIFICATIONS, INCLUATING SIIE, SHAPE AND
99. ALL WARNING AND CONSTRUCTION SIGNS SHALL B MOUNTED ON TYPE II OR III BARRICADES PER THE ALTERNATVE MOUNTING LOCATIONS SHALL BE
PRE-APRROVED BY THE DEPARTMENT PRIOR TO CONSTRUCTION. 40. IF PARKING II ALLOWED IN ADVANCE WARNING
AREAS, ADVANCE WARNING SIGNS SHALL BE MOUNTED ON HEHH-LEVEL DEVICES.
41. ALL CONES, TUBULAR DDLINEATORS AND OTHER
APPROVED CHANNELIING DEVICES SHALL BE A APPROVED CHANNELIZING DEVICES SHALL BE A
MNIMUM HEIGT OF 3 B" AND HAVE RETTORELLECTIVE SLEEVES PER THE LATEST STANDARD PLANS AND SPECIFICATIONS.
2. FLASHING ARROW SIGNS SHALL BE USED FOR ALL
FULLAN CLOSURES OR AS OTHERWISE REQURED SY THE DEPARTMENT. FLASH RATES AND PATTERNS SHALL CONFORM TO THE LATEST STANDARD
SPECIICATIONS SILENT TTPE ARROW BOARDS SHALL BE USED IN RESIDENTAL AREARS
43. FOR EXTENDED LANE CLOSURES 3. FOR EXTENDED LANE CLOSURES THE CONTRACTOR
SHALLPLACE SHAEXLACE LANE CLOSED" (C30 (CA) SIGNS AT 300
INTERVALS IN URBANIZED AREAS (OR ONE SIGN PER
CITY BLOCK) AD AT CITY BLOCK) AND AT $500^{\prime}$ INTERVALS FOR AREAS WITH
UMITED ACCESS
 SHALL BE PLACED ON ANY AFFECTED CROSS STREET
CONSIITNT WTH THE LATEST STANDARD PLANS AND
SPEIFICTIONS SPECIFICATIONS.
45. WHERE FLAGGERS ARE REOUIRED TO FACILITATE
5. WHERE FLAGGERS ARE REQURED TO FACILTAA
TRAFFIC CONRO THE YHALL BE PROPRERLY
 "STTPIILLOW" PADDEL PER THE LATEST STANDARD
PLANS AND SPECIFICATIONS. FLAGGERS ARE REQURED TO BE TRAINED IN THE PROPER
FUNDAMENTALS OF FLAGING TRAFFIC AN FUNDAMENTALS OR FLAGGIING TRAFFPC AND MAINTAIN
TWO-WAY RADIO COMMUNICATONS AT ALL TIMES.
TWO-WAY RADIO COMMUNICATIONS AT ALL TIMES
46. FLAGGERS SHALL BE PRESENT TO ASSIST 46. FLAGGERS SHALL BE PRESENT TT ASSIST
PEDESTRIAN THRUGH WORK AREAS OR LEGAL
CROSSWALLSSINTERSECTIONS AND TO PROVIDE INGRESSIEGRESS AT PRIVATE DRIVEWAYS.
 WHERE THE TRAFFIC SIGAAL HAS BEEN PLACED ON
"ALL-WAY RED FLASH"I I CONSTRUCTION RESULTS IN ALL-WAY RED FLASH IF CONSTRUCTION RESUL
OBSTTUCTON TO DRVER LINE OF IGTT, OR AS
DEEMED NECESSARY BY THE DEPARTMET TO DEEMED NECESSARY BY
ENSURE PUBLIC SAFETY.
48. FLAGGERS SHALL BE PRESENT TO ASSIST WITH TH MERGING OF CONSTRUCTION TRUCKS AND HEAVY
EQUUPMENT INTO AND OUT OF TRAFFIC. TTRUCKS EQUIPMENT INTO AND OUT OF TRAFFIC. "TRUCKS
ENTERING EXITIGG" (C44 (CA)) SIGNS MAY BE ENTERING EXITING" (C44 (CA) ) SIGNS MAY BE
REQUIRED FOR RREQUENT MOVEMENTS, AT THE DIRECTION OF DEPARTMENT. STRPING AND PAVEMENT MARKINGS BY WATERBLASTING". ALTERNATVE METHODS MUST BE
PRE-APPROVED BY THE DEPARTMENT. ANY DEBRIS PRE-APPROVED B THE DEPARTMENT. ANY DEBRIS
SHALLE PROMPTLY REMOVED BTHE CNTRCTOR 50. PALEMENT THAT I DAMAGED DUE TO TONR REMONAL
OFSTRIPING, PAVEMENT MARKINGS AND PAVEMENT MARKERS SHALL BE IMMEDAATELY REPAIRED WITHIN 24 HOUUS, , TOTHE SATISFACTION OF THE
DEPARTM
51. ALL TEMPORARY STRIPING AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST
52. CONTRACTOR SHALL PROTECT EXISTING TRAFFIC SIGNAL FACILITIES THROUGHOUT CONSTRUCTION,
ANO DAMAE TO DETECTOR LOOPS, PULL BOXES, CONSTRUCTION, SHALL BE MMMEDIATELY REPAIRED ANDIRR REPLACED WITHIN 24 HOURS, TO THE
SATISFATON SATISFACTION OF THE DEPARTMENT.
53. TRAFFIC SIGNALS SHALL REMAIN FULIL
AT ALL TIMES. a. REQUESTS TO HAVE A TRAFIIC SISNAL PLACED
ON ALL-WAY RED FLASH" SHALL BE SUBMTTED ON "ALL-WAY RED FLASH" SHALL BE SUBMITTED
TO THE DEPARTMENT AMINMM OF 72 HOURS IN ADVANCE. b. REQUESTS FOR CHANGES TO TRAFFIC SIGNAL THROUGH AN INTERSECTION, OR N THE EVENT
DETECTOR LOOPS NEED TO BE CUT IN ORDER TO
 COMPLETE CONSTRUCTION, SHALL BE
CORDINATED WTH THE DEPARTENT A MINIMUM OF 1 WEEK IN ADVANCE.
C. ALI COSTS ASSOCIATED WITH ADJUSTMENTS TO SIGNAL TIMING SHALL BE BORNE BY THE
54. ANY DISTURBED BENCHMARKS, MONUMENTS,
ANY IISTUREED BENCHARARS, MONUMENTS,
ANDOR SUREY Y
 REGISTERED CIVIL ENGINEER AUTHORIZED TO
PRACTCE LAND SURVEYING, IN A TIMELY MANER. ALL ASSOCATATED COSTS SHALL BE BORNE BY THE CONTRACTOR
CONTRACTOR SHAU COMPLETING THE WORK, THE AND SIDEWALKS BACKT PATY RESTORE ROADS WHICH INCLUDES, BUT IS NOT LIMITED TO, PAVING, STRIPING, MARKINGS, SIGNAGE, AND DETECTOR COMPLETELY REMOVED FROM THE WORK ZONE, TO

|  | APPLICANT |
| :---: | :---: |
| PRINT NAME: SIGNATURE: |  |
| AGENT OF: | OWNER <br> CONTRACTOR <br> OTHER |
| BY SIGNING THIS, THE APPLICANT AGREES |  |
| ALL CITY OF NATIONAL CITY REQUIREMENTS |  |
| AND NOTES |  |


| REVIEWED |  |
| :--- | :--- |
| NO EXCEPTION TAKEN |  |
| EXCEPTION TAKEN |  |
| DO NOT RESUBMIT. SUBJECT TO <br> COMMENTS NOTED |  |
| RESSBMIT, SUBJECT TO COMMENTS <br> NOTED |  |
| APPROVED BY <br> DATE |  |

TRAFFIC CONTROL PLAN
STANDARD NOTES
SHEET 1 OF

TRAFFIC CONTROL PERMIT AND PERMIT EXTENSION $\qquad$


SAN DIEGO REGIONAL STANDARD DRAWINGS, TCP-04 REVIIION DATE: OCTOBER 25, 2018

TABLE I
RECOMMENDED SIGN SPACING FOR ADVANCE WARNING SIGN SERIES
AND MINIMUM TAPER LENGTH

| A | B | $\stackrel{c}{c}$ |  |  |
| :---: | :---: | :---: | :---: | :---: |
| APPROACH | minimum distance (feet) | TAPER LENGTHS (L) (FEET) FOR 12-FOOT LANE |  |  |
| $\begin{aligned} & \text { SPEED (S) } \\ & \text { (MPH) } \end{aligned}$ | between signs and FROM LAST SIGN TO TAPER |  |  |  |
| 25 | 100 | 125 | 63 | 42 |
| 30 | 250 | 180 | 90 | 60 |
| 35 | 250 | 245 | 123 | 82 |
| 40 | 350 | 320 | 160 | 107 |
| 45 | 500 | 540 | 270 | 180 |
| 50 | 500 | 600 | 300 | 200 |
| 55+ | 1000 | 660 | 330 | 220 |
|  |  | L FOR MERGE TAPER <br> 1/2L FOR SHIFT TAPER <br> 1/3L FOR SHOULDER TAPER |  |  |

recommended taper length and maximum channelizing/cone spacing

| A | B | C | NOTES: |
| :---: | :---: | :---: | :--- |
| APPROACH | BUFFER | MAX CONE SPACING | TAPER FORMULA: |
| SPEED (S) | LENGTH |  |  | $L=S \times W$ FOR SPEeds GREATER THAN 40 MPH $L=\frac{W \times S^{2}}{60}$ FOR SPEEDS OF 40 MPH OR LESS. Where:

WHERE: $=$ MINIMUM LENGTH OF TAPER (FEET)
S = APPROACH SPEED (MPH)
$=\begin{aligned} & \text { POSTED SPEED LIMIT OR OFF-PEAK 85TH \% } \\ & \text { SPEED PRIOR TO WORK STARTNG OR }\end{aligned}$ SPEED PRIOR TO WORK STARTING $W=$ WIDTH OF OFFSET (FEET)
(*) FACING OPPOSING TRAFFIC, ADJACENT TO WORK
AREAS OR CONFLICTING WITH EXISTING STRIPING

| -california - | ENGINEERING AND PUBLIC WORKS DEPARTMENT SERVICE HOURS: MONDAYS TO THURSDAYS: 7 AM - 6 PM | TRAFFIC CONTROL |
| :---: | :---: | :---: |
| NATIONALCITY | ERVE HORRS MRIDAYS: CITY HALL CLOSED <br> Contact number: (619) 336-4380 | VER |
| TINCORPORATED | adoress: 1243 national city blvo., | Cover sheet | COVER SHEET

