SPECIFICATIONS
and
SPECIAL PROVISIONS
for
Traffic Management Plan Implementation
along
Monterey Road from Dunne Avenue to Main Avenue

City of Morgan Hill, Santa Clara County, California

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STRIPING AND SIGNAGE

1.01 GENERAL

All special event improvement work (including striping and signing work) covered by these special provisions shall conform to the provisions in the State of California Department of Transportation (Caltrans) Standard Plans and Standard Specification (latest version), the CA MUTCD (latest version), and these special provisions. From this point forward, the Caltrans Standard Plans and Standard Specifications will be simply referred to as the Standard Plans and Standard Specification.

A. Description: Striping and pavement delineation items shall include all traffic striping, painted words, painted symbols, paint removal as required, and removal and installation of reflective pavement markers. Included also is any necessary removal, temporary delineation, layout, traffic control, and signage modifications. It may be necessary to phase the construction of the striping in the interest of public safety. The Contractor shall install striping, where possible, prior to opening roadway to traffic and when necessary for the public's safety or convenience.

B. Materials: Materials shall be in conformance with the Standard Specifications Section 84-2, "Thermoplastic Traffic Stripes and Pavement Markings," for traffic stripes and Section 85, "Pavement Markers," for pavement markers. Signs shall conform to the applicable Standard Specifications sections.

C. Method of Construction: Construction and installation shall be per Section 84, "Traffic Stripes and Pavement Markings," and Section 85, "Pavement Markers," of the Standard Specifications. Removal of existing facilities shall be per Section 15-2.02B, "Traffic Stripe and Pavement Markings," and Section 15-2.02C, "Pavement Markers," of the Standard Specifications.

1.02 PUBLIC SAFETY

The Contractor shall provide for the safety of traffic and the public in conformance with the provisions in Section 7-1.09, "Public Safety," of the Standard Specifications and these special provisions.

When traffic cones or delineators are used to delineate a temporary edge of a traffic lane, the line of cones or delineators shall be considered to be the edge of the traffic lane, however, the Contractor shall not reduce the width of an existing lane to less than 10 feet without written approval from the Engineer.

Suspended loads or equipment shall not be moved nor positioned over public traffic or pedestrians.

Full compensation for conforming to the provisions in this section, "Public Safety," shall be considered as included in the contract prices paid for the various items of work involved and no additional compensation will be allowed therefor.

1.03 ORDER OF WORK

Order of work shall conform to the provisions in Section 5-1.05, "Order of Work," of the Standard Specifications and these special provisions.

1.04 MOBILIZATION

Mobilization shall conform to the provisions in Section 11, "Mobilization," of the Standard Specifications and these special provisions.

1.05 OBSTRUCTIONS

Attention is directed to Section 8-1.10, "Utility and Non-Highway Facilities," and Section 15, "Existing Highway Facilities," of the Standard Specifications and these special provisions.

Attention is directed to the existence of certain underground facilities that may require special precautions be taken by the Contractor to protect the health, safety and welfare of workers and of the public. Facilities requiring special precautions include, but are not limited to: conductors of petroleum products, oxygen, chlorine, and toxic or flammable gases; natural gas in pipelines greater than 6 inches in diameter or pipelines operating at pressures greater than 60 pounds per square inch (gage); underground electric supply system conductors or cables, with potential to ground of more than 300 V, either directly buried or in a duct or conduit which do not have concentric grounded or other effectively grounded metal shields or sheaths.

The Contractor shall notify the Engineer and the appropriate regional notification center for operators of subsurface installations at least 2 business days, but not more than 14 days, prior to performing any excavation or other work close to any underground pipeline, conduit, duct, wire or other structure. Regional notification centers include, but are not limited to, the following:

Notification Center	Telephone Number
Underground Service Alert-Northern California (USA)	1-800-642-2444 1-800-227-2600
Underground Service Alert-Southern California (USA)	1-800-422-4133 1-800-227-2600

1.06 CONTRACTOR SAFETY EQUIPMENT

All Contractor personnel shall wear protective / safety equipment which conforms to the requirements in the latest edition of the Caltrans Safety Manual. Particular attention shall be given to Chapter 12 – PERSONAL PROTECTIVE EQUIPMENT – in regards to the sections referring to "HEAD PROTECTION – HARD HATS" and "WARNING GARMETS: VEST, JACKETS, SHIRTS, AND COVERALLS."

Personnel exposed to falling or flying objects, or hazardous chemical substances, and / or electrical shock and burns shall wear a hard hat for head protection.

Personnel shall be clearly visible to approaching traffic at all times. While working on foot and exposed to the hazards of vehicular or equipment traffic, they shall wear orange, strong yellow-green, or fluorescent versions of these colored warning garments such as vests, jackets, shirts, or coveralls. During hours of darkness, warning garments shall also have silver, orange, or strong yellow-green colored reflective material that is visible at a minimum of 1,000 feet.

1.07 MAINTAINING TRAFFIC

Maintaining traffic shall conform to the provisions in Sections 7-1.08, "Public Convenience," Section 7-1.09, "Public Safety," and Section 12, "Construction Area Traffic Control Devices," of the Standard Specifications, "Public Safety" of these special provisions and these special provisions.

Closure is defined as the closure of a traffic lane or lanes, including shoulder, within a single traffic control system.

Closures shall conform to the provisions in "Traffic Control System for Lane Closure" of these special provisions.

1.08 SPECIAL EVENT AREA TRAFFIC CONTROL DEVICES

Flagging, signs, and temporary traffic control devices furnished, installed, maintained, and removed when no longer required shall conform to the provisions in Section 12, "Construction Area Traffic Control Devices," of the Standard Specifications and these special provisions.

Category 1 temporary traffic control devices are defined as small and lightweight (less than 100 pounds) devices. These devices shall be certified as crashworthy by crash testing, crash testing of similar devices, or years of demonstrable safe performance. Category 1 temporary traffic control devices include traffic cones, plastic drums, portable delineators, and channelizers. If requested by the Engineer, the Contractor shall provide written self-certification for crashworthiness of Category 1 temporary traffic control devices at least 5 days before beginning any work using the devices or within 2 days after the request if the devices are already in use. Self-certification shall be provided by the manufacturer or Contractor and shall include the following:

A. Date,
B. Federal Aid number (if applicable),
C. Contract number, district, county, route and post mile of project limits,
D. Company name of certifying vendor, street address, city, state and zip code,
E. Printed name, signature and title of certifying person; and
F. Category 1 temporary traffic control devices that will be used on the project.

The Contractor may obtain a standard form for self-certification from the Engineer.

Category 2 temporary traffic control devices are defined as small and lightweight (less than 100 pounds) devices that are not expected to produce significant vehicular velocity change, but may cause potential harm to impacting vehicles. Category 2 temporary traffic control devices include barricades and portable sign supports.

Category 2 temporary traffic control devices shall be on the Federal Highway Administration's (FHWA) list of Acceptable Crashworthy Category 2 Hardware for Work Zones. This list is maintained by FHWA and can be located at:

http://safety.fhwa.dot.gov/roadway_dept/road_hardware/listing.cfm?code=workzone

The State Department also maintains this list at:

http://www.dot.ca.gov/hq/traffops/signtech/signdel/pdf/Category2.pdf

Category 2 temporary traffic control devices that have not received FHWA acceptance shall not be used. Category 2 temporary traffic control devices in use that have received FHWA acceptance shall be labeled with the FHWA acceptance letter number and the name of the manufacturer. The label shall be readable and permanently affixed by the manufacturer. Category 2 temporary traffic control devices without a label shall not be used.

If requested by the Engineer, the Contractor shall provide a written list of Category 2 temporary traffic control devices to be used on the project at least 5 days before beginning any work using the devices or within 2 days after the request if the devices are already in use.

Category 3 temporary traffic control devices consist of temporary traffic-handling equipment and devices that weigh 100 pounds or more and are expected to produce significant vehicular velocity change to impacting vehicles. Temporary traffic-handling equipment and devices include crash cushions, truck-mounted attenuators, temporary railing, temporary barrier, and end treatments for temporary railing and barrier.

Type III barricades may be used as sign supports if the barricades have been successfully crash tested, meeting the NCHRP Report 350 criteria, as one unit with a construction area sign attached.

Category 3 temporary traffic control devices shall be shown on the plans or on the Department's Highway Safety Features list. This list is maintained by the Division of Engineering Services and can be found at:

http://www.dot.ca.gov/hq/esc/approved_products_list/HighwaySafe.htm

Category 3 temporary traffic control devices that are not shown on the plans or not listed on the Department's Highway Safety Features list shall not be used.

Full compensation for providing self-certification for crashworthiness of Category 1 temporary traffic control devices and for providing a list of Category 2 temporary traffic control devices used on the project shall be considered as included in the prices paid for the various items of

work requiring the use of the Category 1 or Category 2 temporary traffic control devices and no additional compensation will be allowed therefor.

1.09 SPECIAL EVENT AREA SIGNS

Special event area signs for temporary traffic control shall be furnished, installed, maintained, and removed when no longer required in conformance with the provisions in Section 12, "Construction Area Traffic Control Devices," of the Standard Specifications and these special provisions.

Attention is directed to "Furnish Sign" of these special provisions.

Attention is directed to the provisions in "Prequalified and Tested Signing and Delineation Materials" of these special provisions. Type II retroreflective sheeting shall not be used on construction area sign panels. Type III, IV, VII, VIII, or IX retroreflective sheeting shall be used for stationary mounted construction area sign panels.

Unless otherwise shown on the plans or specified in these special provisions, the color of construction area warning and guide signs shall have black legend and border on orange background, except W10-1 or W47(CA) (Highway-Rail Grade Crossing Advance Warning) sign shall have black legend and border on yellow background.

Repair to special event area sign panels will not be allowed, except when approved by the Engineer. At nighttime under vehicular headlight illumination, sign panels that exhibit irregular luminance, shadowing or dark blotches shall be immediately replaced at the Contractor's expense.

The Contractor shall notify the appropriate regional notification center for operators of subsurface installations at least 2 business days, but not more than 14 days, prior to commencing excavation for construction area sign posts. The regional notification centers include, but are not limited to, the following:

Notification Center	Telephone Number
Underground Service Alert-Northern California (USA)	1-800-642-2444 1-800-227-2600
Underground Service Alert-Southern California (USA)	1-800-422-4133 1-800-227-2600

Excavations required to install construction area signs shall be performed by hand methods without the use of power equipment, except that power equipment may be used if it is determined there are no utility facilities in the area of the proposed post holes. The post hole diameter, if backfilled with portland cement concrete, shall be at least 4 inches greater than the longer dimension of the post cross section.

Special event area signs placed within 15 feet from the edge of the travel way shall be mounted on stationary mounted sign supports as specified in "Special Event Area Traffic Control Devices" of these special provisions.

The Contractor shall maintain accurate information on special event area signs. Signs that are no longer required shall be immediately covered or removed. Signs that convey inaccurate information shall be immediately replaced or the information shall be corrected. Covers shall be replaced when they no longer cover the signs properly. The Contractor shall immediately restore to the original position and location any sign that is displaced or overturned, from any cause, during the progress of the special event.

1.10 TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE

A traffic control system shall consist of closing traffic lanes in conformance with the details shown on the plans, the provisions in Section 12, "Construction Area Traffic Control Devices," of the Standard Specifications, the provisions under "Maintaining Traffic" and "Special Event Area Signs" of these special provisions, and these special provisions.

The provisions in this section will not relieve the Contractor of responsibility for providing additional devices or taking measures as may be necessary to comply with the provisions in Section 7-1.09, "Public Safety," of the Standard Specifications.

During traffic stripe operations and pavement marker placement operations using bituminous adhesive, traffic shall be controlled, at the option of the Contractor, with either stationary or moving lane closures. During other operations, traffic shall be controlled with stationary lane closures. Attention is directed to the provisions in Section 84-1.04, "Protection From Damage," and Section 85-1.06, "Placement," of the Standard Specifications.

If components in the traffic control system are displaced or cease to operate or function as specified, from any cause, during the progress of the work, the Contractor shall immediately repair the components to the original condition or replace the components and shall restore the components to the original location.

STATIONARY LANE CLOSURE

Each vehicle used to place, maintain and remove components of a traffic control system on multilane highways shall be equipped with a Type II flashing arrow sign which shall be in operation when the vehicle is being used for placing, maintaining or removing the components. Vehicles equipped with Type II flashing arrow sign not involved in placing, maintaining or removing the components when operated within a stationary type lane closure shall only display the caution display mode. The sign shall be controllable by the operator of the vehicle while the vehicle is in motion. The flashing arrow sign shown on the plans shall not be used on the vehicles which are doing the placing, maintaining and removing of components of a traffic control system and shall be in place before a lane closure requiring the sign's use is completed.

1.11 CLOSURE REQUIREMENTS AND CONDITIONS

Closures shall conform to the provisions in “Maintaining Traffic” of these special provisions and these special provisions.

CLOSURE SCHEDULE

The Contractor shall coordinate with the City Engineer / Inspector as to the dates and precise time periods for the installation and pick-up of all lane / roadway closure traffic control measures for the special event.

INSTALLATION OF TRAFFIC CONTROL MEASURES

The special event traffic control measures shall be installed by a minimum of two Contractor personnel or as required by Cal OSHA, whichever is greater.

Prior to the closure of the special event area on Monterey Road between Dunne Avenue and Main Avenue, all detour traffic control measures along the perimeter streets around and approaching the special event area on Monterey Rd shall be installed. The detour traffic control measures include all lane closures, lane transitions, striping modifications, special event signage, and all other improvements shown on the project plans for this special event. This also includes the traffic control measures shown on the project plans along Monterey Rd between Myrtle Ave and Dunne Ave and between Main Ave and Keystone Ave. The Contractor shall install these devices starting with advance signage and perimeter detour signage first. Lane closures, along with the appropriate traffic control devices for the closures, shall be done just before the Monterey Rd closure traffic control measures are installed.

Once the detour traffic control measures are in place, the Monterey Rd closure traffic control measures shall be installed.

Starting on Monterey Rd at the Main Ave intersection, the Contractor shall travel south on Monterey Rd and install the Type I & Type III barricades with the appropriate signage (as shown on the project plans) at each of the cross streets connecting to the west side of Monterey Rd, starting with W 1st St and ending with W 5th St.

Then, starting at the Monterey Rd northbound approach at the Dunne Ave intersection, the Contractor shall install the Type I & Type III barricades with the appropriate signage to close the northbound lanes on Monterey Rd, as shown on the project plans. The Contractor shall then travel north on Monterey Rd and install the Type III barricades with the appropriate signage (as shown on the project plans) at each of the cross streets connecting to the east side of Monterey Rd, starting with E 5th St and ending with E 1st St.

The Contractor shall then install the Type I & Type III barricades with the appropriate signage to block off the northbound lanes on Monterey Rd at the Main Ave intersection, as shown on the project plans. The Contractor shall then install the Type I & Type III barricades with the appropriate signage to close the southbound lanes on Monterey Rd at the Main Ave intersection, as shown on the project plans. The Contractor shall then travel again to the Monterey Rd / Dunne Ave intersection to install the Type I & Type III barricades with the appropriate signage to block off the southbound lanes on Monterey Rd, as shown on the project plans.

For some special events, the installation of traffic control measures on Monterey Rd may start at the Monterey Rd / Dunne Ave intersection instead of the Monterey Rd / Main Ave intersection.

The City reserves the right to direct the Contractor to begin installation of the traffic control measures at either end of Monterey Rd.

REMOVAL OF TRAFFIC CONTROL MEASURES

The special event traffic control measures shall be removed by a minimum of two Contractor personnel or as required by Cal OSHA, whichever is greater.

First, the Contractor shall remove the barricades and signs for the northbound lanes on Monterey Rd at the Main Ave intersection, as well as the barricades and signs for the southbound lanes on Monterey Rd at the Dunne Ave intersection.

The Contractor shall then start at the Monterey Rd / Main Ave intersection and travel south to remove the barricades and signs at each of the cross streets connecting to the west side of Monterey Rd, starting with W 1st St and ending with W 5th St.

Then, going from the Dunne Ave intersection, the Contractor shall travel north on Monterey Rd to remove the barricades at each of the cross streets connecting to the east side of Monterey Rd, starting with E 5th St and ending with E 1st St. The Contractor shall then remove the barricades and signs for the southbound lanes on Monterey Rd at the Main Ave intersection. The Contractor shall then travel again to the Monterey Rd / Dunne Ave intersection to remove the barricades and signs for the northbound lanes on Monterey Rd.

Once the Monterey Rd closure traffic control measures have been removed, all perimeter and approaching detour traffic control measures shall then be removed.

All areas affected by the road closure and detour traffic control measures shall be restored to existing conditions, to the satisfaction of the City Engineer / Inspector.

1.12 PREQUALIFIED AND TESTED SIGNING AND DELINEATION MATERIALS

The State Department maintains the following list of Prequalified and Tested Signing and Delineation Materials. The Engineer shall not be precluded from sampling and testing products on the list of Prequalified and Tested Signing and Delineation Materials.

The manufacturer of products on the list of Prequalified and Tested Signing and Delineation Materials shall furnish the Engineer a Certificate of Compliance in conformance with the provisions in Section 6-1.07, "Certificates of Compliance," of the Standard Specifications for each type of traffic product supplied.

For those categories of materials included on the list of Prequalified and Tested Signing and Delineation Materials, only those products shown within the listing may be used in the work. Other categories of products, not included on the list of Prequalified and Tested Signing and Delineation Materials, may be used in the work provided they conform to the requirements of the Standard Specifications.

Materials and products may be added to the list of Prequalified and Tested Signing and Delineation Materials if the manufacturer submits a New Product Information Form to the New

Product Coordinator at the Transportation Laboratory. Upon a Departmental request for samples, sufficient samples shall be submitted to permit performance of required tests. Approval of materials or products will depend upon compliance with the specifications and tests the Department may elect to perform.

PAVEMENT MARKERS, PERMANENT TYPE

Retroreflective With Abrasion Resistant Surface (ARS)

1. Apex, Model 921AR (4" x 4")
2. Ennis Paint, Models C88 (4" x 4"), 911 (4" x 4") and 953 (2.75" x 4.5")
3. Ray-O-Lite, Model "AA" ARS (4" x 4")
4. 3M Series 290 (3.5" x 4")
5. 3M Series 290 PSA, with pressure sensitive adhesive pad (3.5" x 4")

Retroreflective With Abrasion Resistant Surface (ARS)

(for recessed applications only)

1. Ennis Paint, Model 948 (2.3" x 4.7")
2. Ennis Paint, Model 944SB (2" x 4")*
3. Ray-O-Lite, Model 2002 (2" x 4.6")
4. Ray-O-Lite, Model 2004 ARS (2" x 4")*

*For use only in 4.5 inch wide (older) recessed slots

Non-Reflective, 4-inch Round

1. Apex Universal (Ceramic)
2. Apex Universal, Models 929 (ABS) and 929PP (Polypropylene)
3. Glowlite, Inc. (Ceramic)
4. Hi-Way Safety, Inc., Models P20-2000W and 2001Y (ABS)
5. Interstate Sales, "Diamond Back" (Polypropylene)
6. Novabrite Models Cdot (White) Cdot-y (Yellow), Ceramic
7. Novabrite Models Pdot-w (White) Pdot-y (Yellow), Polypropylene
8. Three D Traffic Works TD10000 (ABS), TD10500 (Polypropylene)

PAVEMENT MARKERS, TEMPORARY TYPE

Temporary Markers For Long Term Day/Night Use (180 days or less)

1. Vega Molded Products "Temporary Road Marker" (3" x 4")

Temporary Markers For Short Term Day/Night Use (14 days or less)

(For seal coat or chip seal applications, clear protective covers are required)

1. Apex Universal, Model 932
2. Filtrona Extrusion, Models T.O.M., T.R.P.M., and "HH" (High Heat)
3. Hi-Way Safety, Inc., Model 1280/1281
4. Glowlite, Inc., Model 932

STRIPING AND PAVEMENT MARKING MATERIAL

Permanent Traffic Striping and Pavement Marking Tape

1. Advanced Traffic Marking, Series 300 and 400

2. Brite-Line, Series 1000
3. Brite-Line, “DeltaLine XRP”
4. Swarco Industries, “Director 35” (For transverse application only)
5. Swarco Industries, “Director 60”
6. 3M, “Stamark” Series 380 and 5730
7. 3M, “Stamark” Series 420 (For transverse application only)

Temporary (Removable) Striping and Pavement Marking Tape (180 days or less)

1. Advanced Traffic Marking, Series 200
2. Brite-Line, Series 100
3. Garlock Rubber Technologies, Series 2000
4. P.B. Laminations, Aztec, Grade 102
5. Swarco Industries, “Director-2”
6. Trelleborg Industries, R140 Series
7. 3M Series 620 “CR”, and Series A750
8. 3M Series A145, Removable Black Line Mask
   (Black Tape: for use only on Hot mix asphalt surfaces)
9. Advanced Traffic Marking Black “Hide-A-Line”
   (Black Tape: for use only on Hot mix asphalt surfaces)
10. Brite-Line “BTR” Black Removable Tape
    (Black Tape: for use only on Hot mix asphalt surfaces)
11. Trelleborg Industries, RB-140
    (Black Tape: for use only on Hot mix asphalt surfaces)

Preformed Thermoplastic (Heated in place)

1. Flint Trading Inc., “Hot Tape”
2. Flint Trading Inc., “Premark Plus”
3. Ennis Paint Inc., “Flametape”

Ceramic Surfacing Laminate, 6” x 6”

1. Highway Ceramics, Inc.

CLASS 1 DELINEATORS

One Piece Driveable Flexible Type, 66-inch

1. Filtrona Extrusion, “Flexi-Guide Models 400 and 566”
2. Carsonite, Curve-Flex CFRM-400
3. Carsonite, Roadmarker CRM-375
4. FlexStake, Model 654 TM
5. GreenLine Model CGD1-66

Special Use Type, 66-inch

1. Filtrona Extrusion, Model FG 560 (with 18-inch U-Channel base)
2. Carsonite, “Survivor” (with 18-inch U-Channel base)
3. Carsonite, Roadmarker CRM-375 (with 18-inch U-Channel base)
4. FlexStake, Model 604
5. GreenLine Model CGD (with 18-inch U-Channel base)

6. Impact Recovery Model D36, with #105 Driveable Base
7. Safe-Hit with 8-inch pavement anchor (SH248-GP1)
8. Safe-Hit with 15-inch soil anchor (SH248-GP2) and with 18-inch soil anchor (SH248-GP3)

Surface Mount Type, 48-inch

1. Bent Manufacturing Company, Masterflex Model MF-180EX-48
2. Carsonite, "Channelizer"
3. FlexStake, Models 704, 754 TM, and EB4
4. Impact Recovery Model D48, with #101 Fixed (Surface-Mount) Base
5. Three D Traffic Works "Channelflex" ID No. 522248W

CHANNELIZERS

Surface Mount Type, 36-inch

1. Bent Manufacturing Company, Masterflex Models MF-360-36 (Round) and MF-180-36 (Flat)
2. Filtrona Extrusion, Flexi-Guide Models FG300PE, FG300UR, and FG300EFX
3. Carsonite, "Super Duck" (Round SDR-336)
4. Carsonite, Model SDCF03601MB "Channelizer"
5. FlexStake, Models 703, 753 TM, and EB3
6. GreenLine, Model SMD-36
7. Hi-way Safety, Inc. "Channel Guide Channelizer" Model CGC36
8. Impact Recovery Model D36, with #101 Fixed (Surface-Mount) Base
9. Safe-Hit, Guide Post, Model SH236SMA
10. Three D Traffic Works "Boomerang" ID No. 522053W

Lane Separation System

1. Filtrona Extrusion, "Flexi-Guide (FG) 300 Curb System"
2. Qwick Kurb, "Klemmfix Guide System"
3. Dura-Curb System

CONICAL DELINEATORS, 42-inch

(For 28-inch Traffic Cones, see Standard Specifications)

1. Bent Manufacturing Company "T-Top"
2. Plastic Safety Systems "Navigator-42"
3. TrafFix Devices "Grabber"
4. Three D Traffic Works "Ringtop" TD7000, ID No. 742143
5. Three D Traffic Works, TD7500

OBJECT MARKERS

Type "K", 18-inch

1. Filtrona Extrusion, Model FG318PE
2. Carsonite, Model SMD 615
3. FlexStake, Model 701 KM
4. Safe-Hit, Model SH718SMA

Type "K-4" / "Q" Object Markers, 24-inch

1. Bent Manufacturing "Masterflex" Model MF-360-24
2. Filtrona Extrusion, Model FG324PE
3. Carsonite, "Channelizer"
4. FlexStake, Model 701KM
5. Safe-Hit, Models SH824SMA_WA and SH824GP3_WA
6. Three D Traffic Works ID No. 531702W and TD 5200
7. Three D Traffic Works ID No. 520896W

CONCRETE BARRIER MARKERS AND
TEMPORARY RAILING (TYPE K) REFLECTORS

Impactable Type

1. ARTUK, "FB"
2. Filtrona Extrusion, Models PCBM-12 and PCBM-T12
3. Duraflex Corp., "Flexx 2020" and "Electriflexx"
4. Hi-Way Safety, Inc., Model GMKRM100
5. Plastic Safety Systems "BAM" Models OM-BARR and OM-BWAR
6. Three D Traffic Works "Roadguide" Model TD 9304

Non-Impactable Type

1. ARTUK, JD Series
2. Plastic Safety Systems "BAM" Models OM-BITARW and OM-BITARA
3. Vega Molded Products, Models GBM and JD
4. Plastic Vacuum Forming, "Cap-It C400"

METAL BEAM GUARD RAIL POST MARKERS

(For use to the left of traffic)

1. Filtrona Extrusion, "Mini" (3" x 10")
2. Creative Building Products, "Dura-Bull, Model 11201"
3. Duraflex Corp., "Railrider"
4. Plastic Vacuum Forming, "Cap-It C300"

CONCRETE BARRIER DELINEATORS, 16-inch

(For use to the right of traffic)

1. Filtrona Extrusion, Model PCBM T-16
2. Safe-Hit, Model SH216RBM

CONCRETE BARRIER-MOUNTED MINI-DRUM (10" x 14" x 22")

1. Stinson Equipment Company "SaddleMarker"

GUARD RAILING DELINEATOR

(Place top of reflective element at 48 inches above plane of roadway)

Wood Post Type, 27-inch

1. Filtrona Extrusion, FG 427 and FG 527

2. Carsonite, Model 427
3. FlexStake, Model 102 GR
4. GreenLine GRD 27
5. Safe-Hit, Model SH227GRD
6. Three D Traffic Works “Guardflex” TD9100
7. New Directions Mfg, NDM27

Steel Post Type

1. Carsonite, Model CFGR-327

RETROREFLECTIVE SHEETING

Channelizers, Barrier Markers, and Delineators

1. Avery Dennison T-6500 Series (For rigid substrate devices only)
2. Avery Dennison WR-7100 Series
3. Nippon Carbide Industries, Flexible Ultralite Grade (ULG) II
4. Reflexite, PC-1000 Metalized Polycarbonate
5. Reflexite, AC-1000 Acrylic
6. Reflexite, AP-1000 Metalized Polyester
7. Reflexite, Conformalight, AR-1000 Abrasion Resistant Coating
8. 3M, High Intensity

Traffic Cones, 4-inch and 6-inch Sleeves

1. Nippon Carbide Industries, Flexible Ultralite Grade (ULG) II
2. Reflexite, Vinyl, “TR” (Semi-transparent) or “Conformalight”
3. 3M Series 3840
4. Avery Dennison S-9000C

Drums

1. Avery Dennison WR-6100
2. Nippon Carbide Industries, Flexible Ultralite Grade (ULG) II
3. Reflexite, “Conformalight”, “Super High Intensity” or “High Impact Drum Sheeting”
4. 3M Series 3810

Barricades: Type I, Medium-Intensity (Typically Enclosed Lens, Glass-Bead Element)

1. Nippon Carbide Industries, CN8117
2. Avery Dennison, W 1100 series
3. 3M Series CW 44

Barricades: Type II, Medium-High-Intensity (Typically Enclosed Lens, Glass-Bead Element)

1. Avery Dennison, W-2100 Series

Signs: Type II, Medium-High-Intensity (Typically Enclosed Lens, Glass-Bead Element)

1. Avery Dennison, T-2500 Series
2. Nippon Carbide Industries, Nikkalite 18000

Signs: Type III, High-Intensity (Typically Encapsulated Glass-Bead Element)

1. Avery Dennison, T-5500A and T-6500 Series
2. Nippon Carbide Industries, Nikkalite Brand Ultralite Grade II
3. 3M 3870 and 3930 Series

Signs: Type IV, High-Intensity (Typically Unmetallized Microprismatic Element)

1. Avery Dennison, T-6500 Series
2. Nippon Carbide Industries, Crystal Grade, 94000 Series
3. Nippon Carbide Industries, Model No. 94847 Fluorescent Orange
4. 3M Series 3930 and Series 3924S

Signs: Type VI, Elastomeric (Roll-Up) High-Intensity, without Adhesive

1. Avery Dennison, WU-6014
2. Novabrite LLC, “Econobrite”
3. Reflexite “Vinyl”
4. Reflexite “SuperBright”
5. Reflexite “Marathon”
6. 3M Series RS20

Signs: Type VII, Super-High-Intensity (Typically Unmetallized Microprismatic Element)

1. 3M Series 3924S, Fluorescent Orange
2. 3M LDP Series 3970

Signs: Type VIII, Super-High-Intensity (Typically Unmetallized Microprismatic Element)

1. Avery Dennison, T-7500 Series
2. Avery Dennison, T-7511 Fluorescent Yellow
3. Avery Dennison, T-7513 Fluorescent Yellow Green
4. Avery Dennison, W-7514 Fluorescent Orange
5. Nippon Carbide Industries, Nikkalite Crystal Grade Series 92800
6. Nippon Carbide Industries, Nikkalite Crystal Grade Model 92847 Fluorescent Orange

Signs: Type IX, Very-High-Intensity (Typically Unmetallized Microprismatic Element)

1. 3M VIP Series 3981 Diamond Grade Fluorescent Yellow
2. 3M VIP Series 3983 Diamond Grade Fluorescent Yellow/Green
3. 3M VIP Series 3990 Diamond Grade
4. Avery Dennison T-9500 Series
5. Avery Dennison, T9513, Fluorescent Yellow Green

6. Avery Dennison, W9514, Fluorescent Orange

SPECIALTY SIGNS

1. Reflexite "Endurance" Work Zone Sign (with Semi-Rigid Plastic Substrate)

ALTERNATIVE SIGN SUBSTRATES

Fiberglass Reinforced Plastic (FRP) and Expanded Foam PVC

1. Fiber-Brite (FRP)
2. Sequentia, "Polyplate" (FRP)
3. Inteplast Group "InteCel" (0.5 inch for Post-Mounted CZ Signs, 48-inch or less)(PVC)

Aluminum Composite, Temporary Construction Signs Only

1. Alcan Composites "Dibond Material, 80 mils"
2. Mitsubishi Chemical America, Alpolic 350

1.13 REMOVE PAVEMENT MARKER

Existing pavement markers, including underlying adhesive, when no longer required for traffic lane delineation as determined by the Engineer, shall be removed and disposed of.

1.14 REMOVE TRAFFIC STRIPE AND PAVEMENT MARKING

Traffic stripes and pavement markings shall be removed at the locations shown on the plans and as directed by the Engineer. The removal of existing traffic stripes and pavement markings shall conform to Section 15-2.02B, "Traffic Stripes and Pavement Markings," of the Standard Specifications.

Attention is directed to Section 7-1.01G, "Water Pollution," of the Standard Specifications.

1.15 REMOVE ROADSIDE SIGN

Existing roadside signs that conflict with the proposed special event signage and need to be removed shall be removed and salvaged to a designated area as directed by the Engineer.

Existing roadside signs shall not be removed until replacement signs have been installed or until the existing signs are no longer required for the direction of public traffic, unless otherwise directed by the Engineer.

1.16 FURNISH SIGN

Signs shall be fabricated and furnished in accordance with details shown on the plans, the Traffic Sign Specifications, and these special provisions.

Traffic Sign Specifications for California sign codes are available for review at:

http://www.dot.ca.gov/hq/traffops/signtech/signdel/specs.htm

Traffic Sign Specifications for signs referenced with Federal MUTCD sign codes can be found in Standard Highway Signs Book, administered by the Federal Highway Administration, which is available for review at:

http://mutcd.fhwa.dot.gov/ser-shs_millennium.htm

Information on cross-referencing California sign codes with the Federal MUTCD sign codes is available at:

http://www.dot.ca.gov/hq/traffops/signtech/signdel/specs.htm

Temporary or permanent signs shall be free from blemishes that may affect the serviceability and detract from the general sign color and appearance when viewing during daytime and nighttime from a distance of 25 feet. The face of each finished sign shall be uniform, flat, smooth, and free of defects, scratches, wrinkles, gel, hard spots, streaks, extrusion marks, and air bubbles. The front, back, and edges of the sign panels shall be free of router chatter marks, burns, sharp edges, loose rivets, delaminated skins, excessive adhesive over spray and aluminum marks.

1.17 SHEET ALUMINUM

Alloy and temper designations for sheet aluminum shall be in accordance with ASTM Designation: B 209.

The Contractor shall furnish the Engineer a Certificate of Compliance in conformance with Section 6-1.07, "Certificates of Compliance," of the Standard Specifications for the sheet aluminum.

Sheet aluminum shall be pretreated in accordance to ASTM Designation: B 449. Surface of the sheet aluminum shall be cleaned, deoxidized, and coated with a light and tightly adherent chromate conversion coating free of powdery residue. The conversion coating shall be Class 2 with a weight between 10 milligrams per square foot and 35 milligrams per square foot, and an average weight of 25 milligrams per square foot. Following the cleaning and coating process, the sheet aluminum shall be protected from exposure to grease, oils, dust, and contaminants.
Sheet aluminum shall be free of buckles, warps, dents, cockles, burrs, and defects resulting from fabrication.

Base plate for standard route marker shall be die cut.

1.18 RETROREFLECTIVE SHEETING

The Contractor shall furnish retroreflective sheeting for sign background and legend in conformance with ASTM Designation: D 4956 and "Prequalified and Tested Signing and Delineation Materials" of these special provisions.

Retroreflective sheeting shall be applied to sign panels as recommended by the retroreflective sheeting manufacturer without stretching, tearing, and damage.

Class 1, 3, or 4 adhesive backing shall be used for Type II, III, IV, VII, VIII, and IX retroreflective sheeting. Class 2 adhesive backing may also be used for Type II retroreflective sheeting. The adhesive backing shall be pressure sensitive and fungus resistant.

When the color of the retroreflective sheeting determined from instrumental testing is in dispute, the Engineer's visual test will govern.

1.19 PROCESS COLOR AND FILM

The Contractor shall furnish and apply screened process color, non-reflective opaque black film, and protective overlay film of the type, kind, and product that are approved by the manufacturer of the retroreflective sheeting.

The Contractor shall furnish the Engineer a Certificate of Compliance in accordance to Section 6-1.07, "Certificates of Compliance," of the Standard Specifications for the screened process color, non-reflective opaque black film, and protective overlay film.

The surface of the screened process color shall be flat and smooth. When the screened process colors determined from the instrumental testing in accordance to ASTM Designation: D 4956 are in dispute, the Engineer's visual test will govern.

The Contractor shall provide patterns, layouts, and set-ups necessary for the screened process. The Contractor may use green, red, blue, and brown reverse-screened process colors for background and non-reflective opaque black film or black screened process color for legend. The coefficient of retroreflection for reverse-screened process colors on white retroreflective sheeting shall not be less than 70 percent of the coefficient of retroreflection specified in ASTM Designation: D 4956.

The screened process colors and non-reflective opaque black film shall have the same outdoor weatherability as that of the retroreflective sheeting.

After curing, screened process colors shall withstand removal when tested by applying 3M Company Scotch Brand Cellophane Tape No. 600 or equivalent tape over the color and removing with one quick motion at 90° angle.

1.20 SINGLE SHEET ALUMINUM SIGN

Single sheet aluminum signs shall be fabricated and furnished with or without frame. The Contractor shall furnish the sheet aluminum in accordance to "Sheet Aluminum" of these special provisions. Single sheet aluminum signs shall be fabricated from sheet aluminum alloy 6061-T6 or 5052-H38.

Single Sheet aluminum signs shall not have a vertical splice in the sheet aluminum. For signs with depth greater than 48 inches, one horizontal splice will be allowed in the sheet aluminum. Framing for single sheet aluminum signs shall consist of aluminum channel or rectangular aluminum tubing. The framing shall have a length tolerance of ±1/8 inch. The face sheet shall be affixed to the frame with rivets of 3/16-inch diameter. Rivets shall be placed within the web of channels and shall not be placed less than 1/2 inch from edges of the sign panels. Rivets shall be made of aluminum alloy 5052 and shall be anodized or treated with conversion coating to prevent corrosion. The exposed portion of rivets on the face of signs shall be the same color as the background or legend where the rivets are placed.

Finished signs shall be flat within a tolerance of ±1/32 inch per linear foot when measured across the plane of the sign in all directions. The finished signs shall have an overall tolerance within ±1/8 inch of the detailed dimensions.

Aluminum channels or rectangular aluminum tubings shall be welded together with the inert gas shielded-arc welding process using E4043 aluminum electrode filler wires as shown on the plans. Width of the filler shall be equal to wall thickness of smallest welded channel or tubing.

1.21 FIBERGLASS REINFORCED PLASTIC PANEL SIGN

The Contractor shall furnish fiberglass reinforced plastic panel sign in accordance with ASTM Designation: D 3841 and "Prequalified and Tested Signing and Delineation Materials" of these special provisions.

Fiberglass reinforced plastic shall be acrylic modified and ultraviolet stabilized for outdoor weatherability. The plastic shall contain additives designed to suppress fire ignition and flame propagation. When tested in accordance with the requirements in the ASTM Designation: D 635, the extent of burning shall not exceed one inch.

Fiberglass reinforced plastic shall be stabilized to prevent the release solvents and monomers. The front and back surfaces of the laminate shall be clean and free of constituents and releasing agents that can interfere with the bonding of retroreflective sheeting.

The fiberglass reinforced plastic panel sign shall be weather resistant Grade II thermoset polyester laminate.

The fiberglass reinforced plastic panels shall be minimum 0.135-inch thick. Finished fiberglass reinforced plastic panel signs shall be flat within a tolerance of ±1/32 inch per linear foot when measured across the plane of the sign in all directions. The finished signs shall have an overall tolerance within ±1/8 inch of the specified dimensions.

Color of fiberglass reinforced plastic panels shall be uniform gray within Munsel color range of N7.5 to N8.5.

Fiberglass reinforced plastic panels shall be cut from a single piece of laminate. Bolt holes shall be predrilled. The predrilled bolt holes, panel edges, and the front and back surfaces of the

panels shall be true and smooth. The panel surfaces shall be free of visible cracks, pinholes, foreign inclusions, warping and wrinkles that can affect performance and serviceability.

1.22 ROADSIDE SIGNS

Roadside signs shall be furnished and installed at the locations shown on the plans or where designated by the Engineer and in conformance with the provisions in Section 56-2, "Roadside Signs," of the Standard Specifications and these special provisions.

The Contractor shall furnish roadside sign panels in conformance with the provisions in "Furnish Sign" of these special provisions.

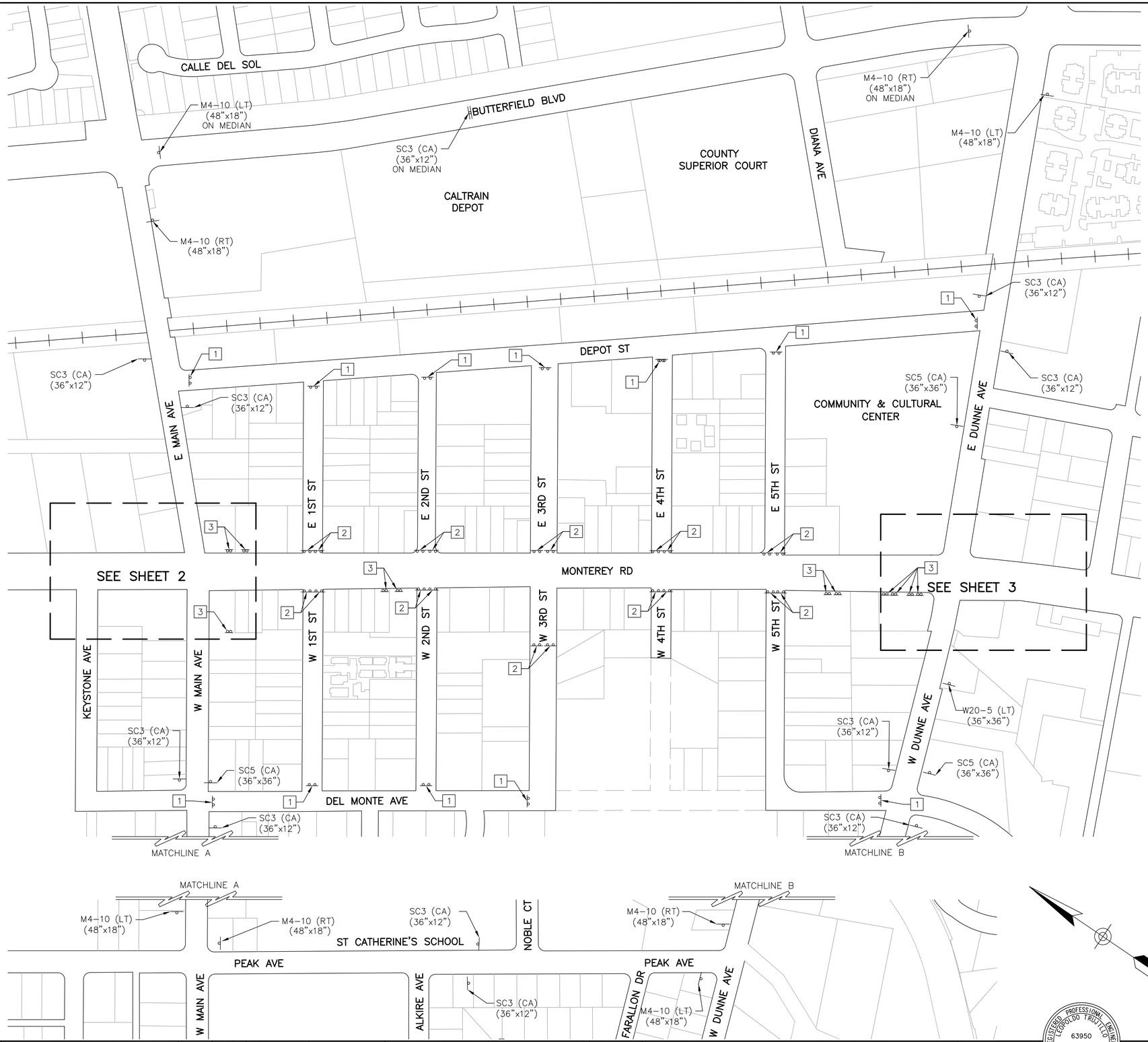
Installation of new wood post shall not be necessary for the temporary special event signage. All special event signs shall be mounted on barricades (Type III, Type I, or A-frame).

1.23 PAVEMENT DELINEATION

Painted traffic striping shall be applied on pavements at the locations shown on the Plans, as directed by the Engineer, and as specified in these special provisions. Traffic striping and pavement message markings shall conform to the standards, dimensions and details as specified in the Caltrans Standard Plans, the 2010 California MUTCD, and Section 84, "Traffic Stripes And Pavement Delineation," of the Standard Specifications.

The material used for all striping and pavement arrows shall be thermoplastic, and shall conform to provisions in Section 84-2, "Thermoplastic Traffic Stripes and Pavement Markings," of the Standard Specifications.

END



PROJECT NOTES (THIS SHEET)

1. MOUNT R11-4 (48"x24") ON TYPE III BARRICADE AS SHOWN ON THE PLANS. BARRICADE SHALL BE PLACED IN THE CENTER OF ROAD.
2. MOUNT R11-2 (48"x30") ON TYPE III BARRICADE. BARRICADES SHALL BE CENTERED ON THE LANES OR AS DIRECTED BY THE CITY ENGINEER/INSPECTOR.
3. MOUNT SPECIAL SIGN "DRIVEWAY CLOSED" (36"x18") ON TYPE I BARRICADE. BARRDICADES SHALL BE CENTERED ON THE DRIVEWAY. SIGN SHALL HAVE BLACK LETTERS ON WHITE BACKGROUND.

LEGEND

- = TEMPORARY SIGN
- = ARROW PANEL
- = TYPE I BARRICADE
- = TYPE III BARRICADE
- = CHANNELIZERS @ 25' MAX. SPACING OR AS NOTED ON THE PLANS

GENERAL SIGNING & STRIPING NOTES

1. THE SIGNING PLANS HAVE BEEN PREPARED USING INFORMATION CONTAINED IN THE 2010 CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2010 CA MUTCD).
2. ALL NEW SIGNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CALTRANS AND 2010 CA MUTCD SPECIFICATIONS AND SHALL FOLLOW THE NEW CALTRANS GUIDELINES FOR SPECIAL EVENTS SIGNAGE.
3. ACTUAL SIGN INSTALLATION LOCATIONS ARE TO BE DETERMINED IN THE FIELD. ALL NEW SIGNS SHALL BE INSTALLED PER CALTRANS STD PLANS RS1-RS4 OR ON APPROVED BARRICADES. SIGN LOCATIONS SHALL BE APPROVED BY THE CITY ENGINEER/INSPECTOR PRIOR TO ANY INSTALLATION WORK.
4. SPECIAL EVENT SIGNS SHALL HAVE ORANGE BACKGROUNDS (RETROREFLECTIVE) WITH BLACK LETTERS AND NUMBERS.
5. THE ORANGE RETROREFLECTIVE BACKGROUND SHALL BE TYPE 3 OR TYPE 4 PER CALTRANS STANDARDS.
6. FOR CONVENTIONAL HIGHWAY SIGNS, LETTERING SIZE SHOULD BE 8 INCH (CAP) AND 6 INCH (SMALL CASE). IF ALL CAPS, SIZE SHOULD BE 8 INCH.
7. SIGN PANEL SIZE SHALL BE AS SHOWN ON THE PLANS. SIGN PANEL SIZE SHALL NOT EXCEED 25 SQUARE FEET.
8. EVENT SIGNS SHALL BE MOUNTED ON THEIR OWN POSTS OR SUITABLE BARRICADES.
9. SIGNS SHALL BE INSTALLED/PLACED AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THESE PLANS AND AS DIRECTED BY THE CITY.
10. SIGNS SHALL BE DESIGNED AND COMMERCIALLY MANUFACTURED ACCORDING TO CALTRANS STANDARD SPECIFICATIONS AND THE 2010 CA MUTCD.
11. THE FRAMEWORK FOR BARRICADE-MOUNTED SIGNS SHALL CONSIST OF A BASE, FRAMEWORK, AND A SIGN.
12. THE CENTER OF SIGN PANELS FOR TYPE III BARRICADE-MOUNTED SIGNS SHOULD BE A MINIMUM OF 5 FEET ABOVE GRADE.
13. SANDBAGS AND/OR GRAVEL BAGS SHALL BE PLACED OVER THE BASE LEGS OF BARRICADE-MOUNTED SIGNS TO PREVENT ANY OVERTURNING.
14. ARROW PANELS SHALL DISPLAY THE SYMBOLS AS SHOWN ON THE PLANS. PANELS SHALL BE PLACED INSIDE THE CLOSED LANE.
15. ANY EXISTING SIGNS, STRIPING, AND/OR PAVEMENT MARKINGS THAT CONFLICT WITH THESE TRAFFIC CONTROL PLANS SHALL BE COVERED OR REMOVED DURING SPECIAL EVENT AND/OR WHILE SPECIAL EVENT TRAFFIC CONTROL IS IN PLACE. REMOVAL OF ROADWAY STRIPING AND/OR PAVEMENT MARKINGS SHALL BE DONE IN ACCORDANCE WITH CURRENT CALTRANS AND CA MUTCD STANDARDS. SIGNS, STRIPING, AND/OR PAVEMENT MARKINGS SHALL BE RESTORED TO EXISTING CONDITIONS, TO THE SATISFACTION OF THE CITY ENGINEER/INSPECTOR, ONCE EVENT IS COMPLETE.
16. FOR INSTRUCTIONS ON INSTALLATION & REMOVAL OF TRAFFIC CONTROL EQUIPMENT, REFER TO SECTION 1.10 OF THE PROJECT SPECIAL PROVISIONS.
17. ALL BARRICADES USED DURING EVENING/NIGHTIME SHALL HAVE FLASHING WARNING LIGHTS.

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NO.	DESCRIPTION	DATE	BY

Revisions

WORK ACCEPTED: BY: DATE: | INSPECTOR: DATE:

DRAWN: ARLYNN BUMANGLAG | DESIGN: CELINA LEE | HOR: NO SCALE
CHECKED: LEO TRUJILLO | DATE: | VERT: NONE
APPROVED: | DATE: | JOB NUMBER: 286935

KARL BJARKE, ACTING PUBLIC WORKS DIRECTOR
R.C.E. #39416 EXP. 12-31-11

CITY OF MORGAN HILL

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SUPERVISED BY:
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REGISTERED CIVIL ENGINEER
RCE #63950
EXP. DATE 9-30-12

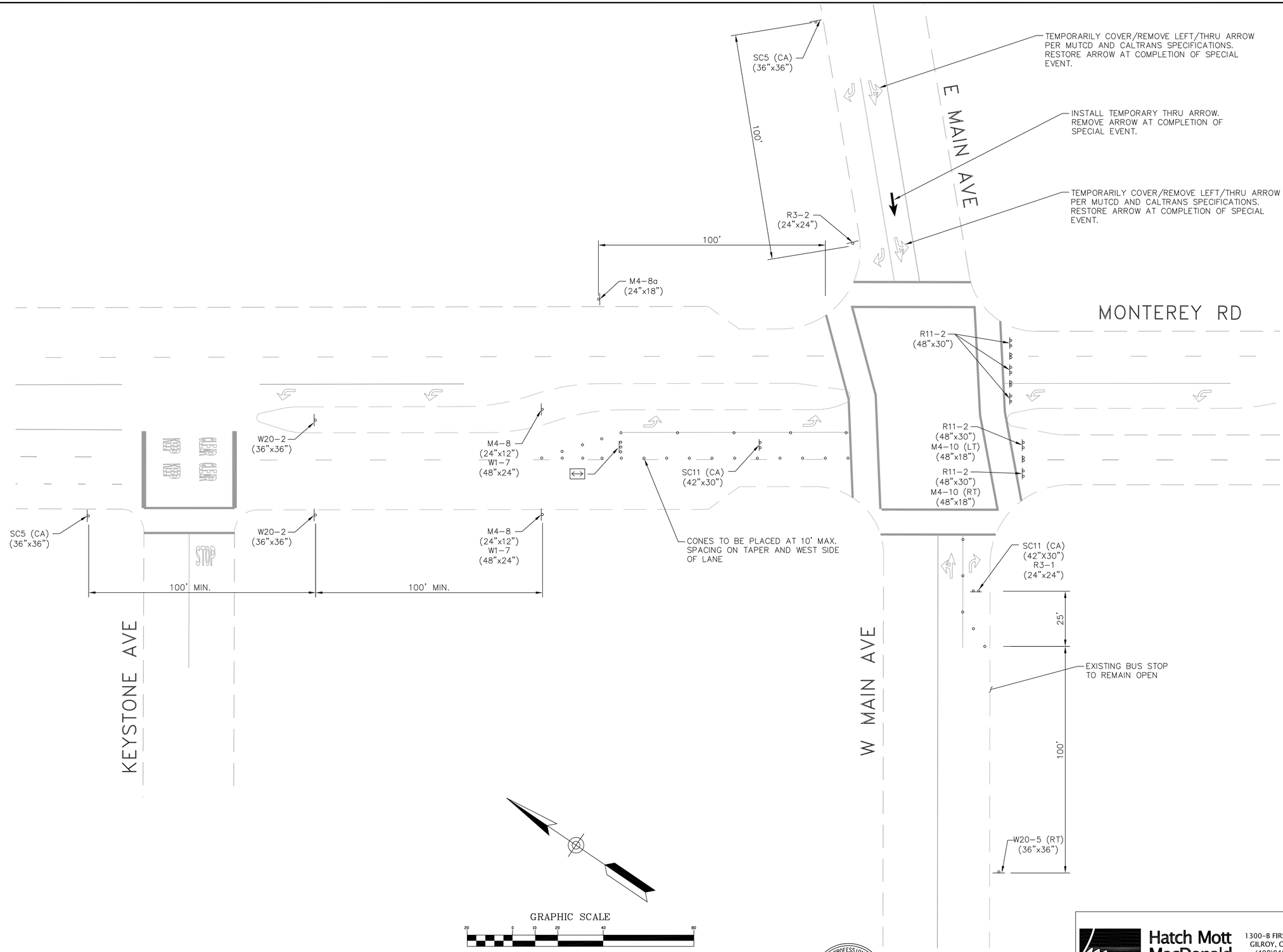
REGISTERED PROFESSIONAL ENGINEER
LEOPOLDO TRUJILLO
63950
Exp. 9-30-12
CIVIL
STATE OF CALIFORNIA

SIGNATURE DATE 5-11-11

MORGAN HILL SPECIAL EVENT
TRAFFIC MANAGEMENT PLAN

FILE NUMBER: 286935 D1
PRINT DATE: 05/11/11
SHEET NUMBER: 1 of 4

Drawing: J:\2010\286935 Morgan Hill Special Event TMP\14.2 Design\286935 02-Signed.dwg
May 17, 2011, 2:18pm



LEGEND

- = TEMPORARY SIGN
- = ARROW PANEL
- = TYPE I BARRICADE
- = TYPE III BARRICADE
- = CHANNELIZERS @ 25' SPACING MAX.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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REGISTERED PROFESSIONAL ENGINEER LEOPOLDO TRUJILLO 63950 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

L. Trujillo
SIGNATURE

5-11-11
DATE

MORGAN HILL SPECIAL EVENT
TRAFFIC MANAGEMENT PLAN

FILE NUMBER: 286935 D1
PRINT DATE: 05/11/11
SHEET NUMBER: 2 of 4

Drawing: J:\2010\286935 Morgan Hill Special Event TMP\14.2 Design\286935 D2-Signed.dwg
May 17, 2011, 2:18pm

LEGEND

- = TEMPORARY SIGN
- = ARROW PANEL
- = TYPE I BARRICADE
- = TYPE III BARRICADE
- = CHANNELIZERS @ 25' SPACING MAX.

EXISTING BUS TURNOUT TO REMAIN OPEN

MATCHLINE C

E DUNNE AVE

30'

50'

SC11 (CA) (42"x30") R3-1 (24"X24")

MATCHLINE C

170' TRANSITION

100' MIN.

100' MIN.

MYRTLE AVE

M4-8 (24"x12") W1-7 (48"x24")

W20-2 (36"x36")

SC5 (CA) (36"x36")

R11-2 (48"x30") M4-10 (RT) (48"x18")

R11-2 (48"x30")

SC11 (CA) (42"x30")

CONES TO BE PLACED AT 10' MAX. SPACING ON TAPERS

R11-2 (48"x30") M4-10 (LT) (48"x18")

R11-2 (48"x30")

M4-8 (24"x12") W1-7 (48"x24")

W20-2 (36"x36")

SC5 (CA) (36"x36")

M4-8a (24"x18")

MONTEREY RD

W DUNNE AVE

SC11 (CA) (42"x30")

R3-2 (24"x24")

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

1 inch = 20 ft.

Hatch Mott MacDonald

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May 17, 2011, 2:18pm

R3-1

R3-2

R11-2

R11-4

W20-2

W20-5 (LT)

W20-5 (RT)

W1-7

M4-8

M4-8a

M4-10 (LT)

M4-10 (RT)

SC3 (CA)

SC5 (CA)

SC11 (CA)

SPECIAL SIGN

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