ABBREVIATIONS:

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCTV</td>
<td>Closed Circuit Television</td>
</tr>
<tr>
<td>CS</td>
<td>Customer Information System</td>
</tr>
<tr>
<td>COP</td>
<td>Closed Circuit Television and Fiber Optic</td>
</tr>
<tr>
<td>DA</td>
<td>Data Acquisition</td>
</tr>
<tr>
<td>DAT</td>
<td>Data Acquisition / Telephone</td>
</tr>
<tr>
<td>E</td>
<td>Existing</td>
</tr>
<tr>
<td>EMF</td>
<td>Emergency Management Panel</td>
</tr>
<tr>
<td>ET</td>
<td>Emergency Telephone</td>
</tr>
<tr>
<td>FOH</td>
<td>Fiber Optic Patch Panel</td>
</tr>
<tr>
<td>HDMI</td>
<td>High Definition Multimedia Interface</td>
</tr>
<tr>
<td>IC</td>
<td>Interface Converter</td>
</tr>
<tr>
<td>KVM</td>
<td>Keyboard, Video, Mouse</td>
</tr>
<tr>
<td>LED</td>
<td>Light Emitting Diode Message Sign</td>
</tr>
<tr>
<td>LVM</td>
<td>Light Emitting Diode Video Monitor</td>
</tr>
<tr>
<td>MC</td>
<td>Microcomputer</td>
</tr>
<tr>
<td>MIF</td>
<td>Multimode Fiber Optic</td>
</tr>
<tr>
<td>MVP</td>
<td>Multi-Trip Ticket Validator Machine</td>
</tr>
<tr>
<td>NWP</td>
<td>Network Media Player</td>
</tr>
<tr>
<td>P</td>
<td>Power</td>
</tr>
<tr>
<td>PA</td>
<td>Public Address</td>
</tr>
<tr>
<td>PC</td>
<td>Priority Controller</td>
</tr>
<tr>
<td>PDP</td>
<td>Power Distribution Panel</td>
</tr>
<tr>
<td>POE</td>
<td>Power Over Ethernet</td>
</tr>
<tr>
<td>PVC</td>
<td>Polyvinyl Chloride Conduit</td>
</tr>
<tr>
<td>RJ</td>
<td>Registered Jack</td>
</tr>
<tr>
<td>RS</td>
<td>Recommended Standard</td>
</tr>
<tr>
<td>T</td>
<td>Telephone</td>
</tr>
<tr>
<td>TDD</td>
<td>Telecommunication Device for the Deaf</td>
</tr>
<tr>
<td>TVM</td>
<td>Ticket Vending Machine</td>
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<tr>
<td>TVSS</td>
<td>Transient Voltage Suppression System</td>
</tr>
<tr>
<td>UPS</td>
<td>Uninterruptible Power Supply</td>
</tr>
<tr>
<td>VAC</td>
<td>Video Alternating Current</td>
</tr>
<tr>
<td>VMS</td>
<td>Video Management System</td>
</tr>
</tbody>
</table>

LEGEND:

- Light Pole with Camera / Speaker / LED Message Sign
- Canopy
- Ambient Noise Sensor
- Strobe Light
- Speaker
- LED Message Sign
- LED Video Monitor
- Vault (4' x 4' x 4')
- Conna. Pull Box (11" x 17")
- Elec. Pull Box (11" x 17")
- Conna. Pull Box (17"L x 11"W x 12"D)
- Elec. Pull Box (17"L x 11"W x 12"D)
- Stub
- 1" Conduit
- 2" Conduit
- 3" Conduit
- 4" Conduit
- R.O.W. Fence

NOTES:

1. Conduit sizes shown at stub-outs typical for entire run unless noted otherwise.
2. All conduits shall be PVC lattica 2" below grade.
3. Refer to architectural drawings for location of pull boxes, prior to rough-in of conduits.
4. Provide 2" separation between power and communication conduits.
5. Conduit to be stubbed into bottom of junction box.
6. Provide separate 250 VAC, 20 Amp circuit to each TVM location to allow connection of (3) conduits (line, neutral, ground) to equipment.
7. Provide 6 foot long metal at each TVM location to allow connection of (3) conduits (line, neutral, ground) to equipment.
8. For communications shelter, see communications standard drawings enclosed that exceed.
9. Construction shall be in compliance with srra local, state and federal codes and regulations. If there are any variances or conflicts, the most stringent shall apply.
NOTES:
1. STANDARD PLATFORM LENGTH TO BE 680 FEET.
2. STANDARD PLATFORM WIDTH TO BE A MINIMUM OF 16 FEET FOR SIDE PLATFORMS.
3. MINI-HIGH PLATFORM TO BE CENTERED 60'-0" FROM LOS ANGELES END OF PLATFORM.
4. MINI-HIGH PLATFORM TO BE CENTERED 60'-0" FROM LOS ANGELES END OF PLATFORM.
5. OVERPASS/UNDERPASS TO BE LOCATED 180'-0" BACK FROM MINI-HIGH PLATFORM AS RECOMMENDED.
6. OVERPASS/UNDERPASS TO BE LOCATED 180'-0" BACK FROM MINI-HIGH PLATFORM AS RECOMMENDED.
7. CPUC RAMP DETAIL ON DRAWING FOR PEDESTRIAN CROSSING SHALL BE APPLIED WHEN A PEDESTRIAN CROSSING IS REQUIRED AT END OF PLATFORM FOR ADDITIONAL INFORMATION ON PEDESTRIAN CROSSING SEE SCRRA STANDARD DRAWING E4020.

NOTES: (CONT.)
5. COMMUNICATIONS SHEDS NOT SHOWN FOR CLARITY. FOR COMMUNICATIONS SHED LOCATION SEE SCRRA STANDARD DRAWING.
6. CRITERIA SHOWN ON THIS DRAWING FOR PEDESTRIAN CROSSING TO SHOWN ON THIS DRAWING FOR PEDESTRIAN CROSSING.
20' 160' 160' 160' 160' 158' 20' 680' PLATFORM (LIGHT POLES @ 160'-0" O.C. MAX.)

120' 680' PLATFORM (LIGHT POLES @ 160'-0" O.C. MAX.)

58'-2" 68'-0"

85' CAR LENGTH

60'

30' 60' 60' 60' 60' 60' 30' 30'

PLATFORM MINI-HIGH

AS IS PRACTICABLE OR NEAREST TO MINI-HIGH PLATFORM LOCATED AT CENTER OF PLATFORM

OVERPASS/UNDERPASS TO BE OF TRACK VARIES)

DISTANCE FROM CENTERLINE FENCING AT EDGE OF R.O.W.

TACTILE PANEL PLATFORM FILL TO TOP OF WALKWAY BALLAST

ASPHALT PLATFORM END OF RAMP DOWN

DIRECTOR OF ENGINEERING AND CONSTRUCTION

REVISION STANDARD SHEET

SCALE: CADD FILE:

ENG.

DES.

DATE

REV.

DESCRIPTION

DRAWN BY:

DATE:

FOR NON-SCRRA APPROVED USES:

ALL RIGHTS RESERVED. USE. NO PART OF THESE STANDARDS SHOULD BE REPRODUCED OR DISTRIBUTED IN ANY FORM OR BY ANY MEANS WITHOUT THE PRIOR WRITTEN PERMISSION OF SCRRA.

ANY FORM OR BY ANY MEANS WITHOUT THE PRIOR WRITTEN PERMISSION OF SCRRA. THIS INFORMATION AGREES THAT IT ASSUMES ALL LIABILITY ARISING FROM SUCH REPRESENTATIONS OF ANY KIND ARE DISCLAIMED. ANYONE MAKING USE OF THIS INFORMATION NAME IS THE SOLE RESPONSIBILITY OF THE USER AND SHOULD NOT BE USED WITHOUT CONSULTING A REGISTERED PROFESSIONAL ENGINEER. ALL WARRANTIES SCRRA SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THE DATA OR INFORMATION CONTAINED HEREIN. THE SELECTION AND USE OF THESE SCRRA ENGINEERING STANDARDS ARE INTENDED FOR SCRRA APPROVED USES ONLY.

UES.

5'-4" 3'-6" 8"
NOTES:

1. GM F59PH locomotive numbers shown are schematic only.
2. FOR ADDITIONAL PLATFORM INFORMATION SEE SCRRA STANDARD DRAWINGS ES3002 AND ES3003.

GM F59PH LOCOMOTIVE & BOMBARDIER CAR

MP36PH LOCOMOTIVE & ROTEM CARS
NOTE:
1. MINI-HIGH PLATFORM DESIGN, MATERIAL, FABRICATION AND INSTALLATION SHALL BE AS PER SCRRA SPECIFICATIONS.
2. TUBULAR BOLLARDS SHALL BE "TUFF POST" BY IMPACT RECOVERY SYSTEMS OR EQUAL WITH FIXED BASE AND YELLOW IN COLOR WITH TWO ORANGE REFLECTIVE BANDS 42" HIGH.
3. THE MODIFIED R5-1 "DO NOT ENTER" 18" x 18" SIGN SHALL BE INSTALLED ON POST PER ES5210 WITH THE TOP OF SIGN 42" FROM PLATFORM LEVEL.

LEGEND:
- BLACK TILE
- WHITE TILE

MINI-HIGH PLATFORM DETAILS
SCALE 1/4" = 1'-0"

SECTION A
SCALE 3/16" = 1'-0"

METROLINK
SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
ONE GATEWAY PLAZA, 12TH FLOOR, L.A., CA. 90012

ENGINEERING STANDARDS
MINI - HIGH PLATFORM DETAILS
NOTES:
1. LIGHT POLE AND CANOPY SHOWN AS REFERENCE ONLY ACTUAL DESIGN TO BE DETERMINED
   BY THE ARCHITECT.
2. STATION FURNITURE (BENCHES, TRASH RECEPTACLES) SHALL BE PLACED AT THE BACK OF THE
   PLATFORM.

EXTEND PLATFORM AT CANOPIES AS NEEDED TO ACCOMMODATE SEATING AND PEDESTRIAN TRAFFIC

LANDSCAPING

MIN. 6" THICK CAST-IN-PLACE CONCRETE SLAB

16'-0"
(MIN. CLEAR)

NOTE:
16'-0"
(MIN.)

SIDE PLATFORM

INTERTRACK FENCE

HOT MIX ASPHALT
6" THICK

SEE SCRRA ENGINEERING STANDARD ES5101 FOR FOOTING DETAILS

HOT MIX ASPHALT
6" THICK
NOTE:
1. STATION FURNITURE (BENCHED, TRASH RECEPTACLES) SHALL BE PLACED AT THE CENTER OF THE PLATFORM.
2. IF APPROVAL IS GRANTED FOR CONSTRUCTION OF CENTER PLATFORM, THE CONFIGURATION SHOWN ON THIS DRAWING IS RECOMMENDED.
NOTE:
- SEE SCRRA STANDARD DRAWING ES3203-02
- FOR ADDITIONAL INFORMATION AND DETAILS

**DETECTABLE WARNING PANEL**

- EDGE OF PLATFORM
- 5'-4" OF TRACK
- 4" HIGH BLOCK LETTERS, PER ES1212
  - COLOR: BLACK
  - SPACING: 30 FT. ON CENTER
  - BLOCK LETTERS PAINTED OVER 4½" WIDE YELLOW STRIPE

**ALTERNATE - A**

- FOR JOINT AMTRAK - METROLINK STATIONS WITH SCRRA APPROVAL

Yellow Detectable Warning Panel (Detectable Warning Panel shall comply with California Building Code, Title 24 Transportation Facilities)

- 4" HIGH BLOCK LETTERS
- 4½" WIDE YELLOW STRIPE
- 1" WIDE BLACK CONTRAST STRIPE

Please wait behind yellow line

Concrete Slab

Contraction Stripe

1" WIDE BLACK CONTRAST STRIPE

4½" WIDE YELLOW STRIPE

Note:
- If platform surface is dark, a contrasting color (white or yellow) should be used.

**SCALE:** 1/8" = 1'-0"

**SECTION A-A**

Contraction Stripe

Detectable Warning Panel at Platform Edge

Detectable Warning Panel End

Yellow Stripe

Contraction Stripe

4" Wide Black Contrast Stripe

4" High Black Contrast Stripe

4½" Wide Yellow Stripe
**Detectable Warning Panel Joints**

**Detectable Warning Panel at Expansion Joints**

**Detectable Warning Panel at Platform Edge**

**Detectable Warning Panel End**

**Concrete Slab**

**Concrete Platform**

**Concrete Expansion Joint Filler**

**Sealant with Backer Rod**

**Detectable Warning**

**Raised, Truncated Domes in a Staggered Pattern**

**Scale: None**

**Raised Truncated Dome**

**Scale: None**

**Slab Concrete Joint Filler**

**Expansion Joint**

**Top of Platform Slope 1°**

**Top of Rail**

**2.35" Center to Center Spacing**

**1.67" (Approx.)**

**0.45" Top Dia**

**0.20" Base Dia**

**Detectable Warning Panel**

**Detectable Warning at Expansion Joints**

**Detectable Warning Panel End**

**Detectable Warning at Platform Edge**

**Top of Platform**

**Elevation**

**Slopes**

**Top of Rail**

**1" = 1'-0"**
GENERAL NOTES

① ALL TYPESetting SHALL BE PROVIDED BY SIGN CONTRACTOR.
LETTER SPACING TO BE "NORMAL" SPACING FOR ALL SIGNS EXCEPT AS SPECIFIED
OTHERWISE. SIGN CONTRACTOR SHALL PROVIDE SCRRA WITH TYPICAL SPACING
PATTERNS FOR APPROVAL PRIOR TO FABRICATION.

② ALL INSTALLATION LOCATIONS & CONDITIONS SHALL BE FIELD VERIFIED PRIOR
TO FABRICATION.

③ ALL SIGNS SHALL BE INSTALLED AS PER EXISTING/CURRENT CODE REQUIREMENTS
FOR SAFE & SECURE MOUNTING.

④ SIGN CONTRACTOR SHALL COORDINATE ALL SIGN INSTALLATIONS WITH METROLINK.

⑤ SIGN CONTRACTOR SHALL REFER TO SPECIFICATIONS FOR ALL MATERIAL, DETAILS &
SPECIFIC INSTRUCTIONS.

⑥ SIGN CONTRACTOR SHALL PROVIDE ALL ENGINEERING OF SIGN & GRAPHIC ITEMS
INCLUDING, BUT NOT LIMITED TO, INTERNAL STRUCTURE, ELECTRICAL & MECHANICAL
PARTS, CONCRETE FOOTINGS & APPLICABLE CODES & REGULATIONS. SHOP DRAWINGS
SHALL CARRY THE ENGINEER’S STAMP & BE SIGNED BY A CALIFORNIA REGISTERED
CIVIL ENGINEER.

⑦ SIGN CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL SIGNS.
ALL ATTACHMENT DETAILS SHALL BE SHOWN ON SHOP DRAWINGS & DRAWINGS SHALL
BE SUBMITTED TO SCRRA FOR APPROVAL PRIOR TO FABRICATION.

⑧ ALL EXPOSED SIGN SURFACES, ATTACHMENTS, EDGES & SEAMS SHALL BE PAINTED OR
PORCELAINIZED AS NOTED TO PREVENT RUST.

⑨ NO SIGN SHALL BE INSTALLED WITHIN THE PUBLIC UTILITIES COMMISSION CLEARANCE
ENVELOPE. POLES AND SIGNS MUST HAVE A MINIMUM CLEARANCE OF 8’ 6” TO
CENTER OF TANGENT TRACK.

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ES3302-02 STATION SIGN MENU
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ES3303-02 SIDE PLATFORM - TYPICAL SIGN LOCATION PLAN
ES3303-03 SIDE PLATFORM - TYPICAL SIGN LOCATION PLAN
ES3303-04 SIDE PLATFORM - TYPICAL SIGN LOCATION PLAN

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ES3305 SIGN TYPE 1: PRIMARY IDENTIFICATION MONUMENT SIGN
ES3306 SIGN TYPE 2: VEHICULAR DIRECTIONAL - FREESTANDING SIGN
ES3307-01 SIGN TYPE 3: INFORMATION/RESTRICTIVE - COPY LAYOUTS
ES3307-02 SIGN TYPE 3: INFORMATION/RESTRICTIVE - MOUNTING CONDITIONS
ES3307-03 SIGN TYPE 3: INFORMATION/RESTRICTIVE - ATTACHMENT DETAILS
ES3307-04 SIGN TYPE 3: INFORMATION/RESTRICTIVE - EXIT SIGN INSTALLATION DETAILS
ES3308 SIGN TYPE 4: TRAILBLAZER DIRECTIONAL
ES3309 SIGN TYPE 5: PARKING RESTRICTIVE SIGN - POLE MOUNTED
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ES3311 SIGN TYPE 7: ACCESSIBLE PARKING INFORMATION SIGN
ES3314 SIGN TYPE 11: TRACK DIRECTIONAL SIGN - POLE MOUNTED
ES3315 SIGN TYPE 12: ELEVATION DIRECTIONAL SIGN - POLE MOUNTED
ES3316 SIGN TYPE 13: ELEVATION IDENTIFICATION SIGN - FLAG MOUNTED
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ES3321 SIGN TYPE 21: STATION IDENTIFICATION SIGN - LARGE
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ES3323 SIGN TYPE 23: ACCESSIBILITY SIGN
ES3324 SIGN TYPE 24: PEDESTRIAN RESTRICTIVE/INFORMATION SIGN
ES3325 SIGN TYPE 25: A.D.A STATION IDENTIFICATION SIGN (BRaille)
ES3326 SIGN TYPE 26: A.D.A STATION IDENTIFICATION SIGN - FACTORY MOUNTED
ES3327 SIGN TYPE 27: A.D.A STATION IDENTIFICATION SIGN AT TRACK
ES3328 SIGN TYPE 28: DISPLAY CASE - WALL OR POLE MOUNTED
ES3329-01 SIGN TYPE 28: DISPLAY CASE - POST MOUNTED (SINGLE-SIDED)
ES3330-01 SIGN TYPE 30: TRAIN POSITION MARKER SIGN
ES3330-02 SIGN TYPE 30: NEW TRAIN POSITION MARKER SIGN
ES3330-03 SIDE PLATFORM - TYPICAL SIGN LOCATION PLAN
ES3330-04 SIDE PLATFORMS - LOCOMOTIVE POSITION MARKER PLAN
ES3330-05 SIDE PLATFORMS - LOCOMOTIVE POSITION MARKER PLAN
ES3330-06 CENTER PLATFORM - LOCOMOTIVE POSITION MARKER PLAN
ES3332 SIGN TYPE 41: PASSENGER INFORMATION TELEPHONE
SIGN TYPE 24
FEDERATION RESTRICTIVE/INFORMATION SIGN

SIGN TYPE 25
A.D.A. STATION IDENTIFICATION SIGN

SIGN TYPE 26
MAP INFO KIOSK FREESTANDING

SIGN TYPE 27
ADA STATION IDENTIFICATION SIGN AT TRACK

SIGN TYPE 28
DISPLAY CASE

SIGN TYPE 30
POSITION MARKER & TRACK IDENTIFICATION SIGN

SIGN TYPE 30.1
LOCOMOTIVE POSITION MARKER

SIGN TYPE 41
PASSENGER INFORMATION TELEPHONE

STATION SIGN MENU

SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
ONE GATEWAY PLAZA, 12TH FLOOR, L.A., CA. 90012
NOT FOR CONSTRUCTION

NOTE:
THIS REPRESENTS A TYPICAL METROLINK STATION
AND IS ShOWN FOR REFERENCE ONLY.
ACTUAL STATIONS MAY VARY FROM THIS PLAN.
Plan

Not for Construction

Note:
This represents a typical Metrolink station and is shown for reference only. Actual stations may vary from this plan.
NOTE:
THIS REPRESENTS A TYPICAL METROLINK STATION
AND IS SHOWN FOR REFERENCE ONLY.
ACTUAL STATIONS MAY VARY FROM THIS PLAN.
NOTES:
1. SIGN CONTRACTOR SHALL ENGINEER FABRICATION & INSTALLATION OF SIGN STRUCTURE TO SATISFY ALL LOCAL CODES & WIND LOAD FACTORS.
2. SIGN PANEL TO BE PORCELAIN ENAMEL W/ SMOOTH-FINISHED EDGES & SEAMS; MARINE GRADE PLYWOOD-FILLED INTERIOR.
3. ALL FASTENERS SHALL BE PLATED FASTENERS & SHALL BE PAINTED TO MATCH SIGN FACE.

SIGN CONTRACTOR SHALL ENGINEER FABRICATION & INSTALLATION OF SIGN STRUCTURE TO SATISFY ALL LOCAL CODES & WIND LOAD FACTORS.
SIGN PANEL TO BE PORCELAIN ENAMEL W/ SMOOTH-FINISHED EDGES & SEAMS; MARINE GRADE PLYWOOD-FILLED INTERIOR.
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2. SIGN PANEL TO BE PORCELAIN ENAMEL W/ SMOOTH-FINISHED EDGES & SEAMS MARINE GRADE PLYWOOD-FILLED INTERIOR.
3. ALL FASTENERS SHALL BE PLATED FASTENERS & SHALL BE PAINTED TO MATCH SIGN FACE.

SIGN TYPE 2
VEHICULAR DIRECTIONAL SIGN - FREESTYLE

NOTE: THE DATA OR INFORMATION CONTAINED HEREIN. THE SELECTION AND USE OF THESE STANDARDS IS THE SOLE RESPONSIBILITY OF THE USER AND SHOULD NOT BE USED WITHOUT CONSULTING A REGISTERED PROFESSIONAL ENGINEER. ALL WARRANTIES AND REPRESENTATIONS OF ANY KIND ARE DISCLAIMED. ANYONE MAKING USE OF THIS INFORMATION AGREES THAT IT ASSUMES ALL LIABILITY ARISING FROM SUCH USE. NO PART OF THESE STANDARDS SHOULD BE REPRODUCED OR DISTRIBUTED IN ANY FORM OR BY ANY MEANS WITHOUT THE PRIOR WRITTEN PERMISSION OF SCRRA.
NOTES:

1. DIMENSIONS & NOTES TYPICAL EXCEPT AS NOTED.
2. CONTINUE PAINT COLOR USED ON FRONT SURFACE OF SIGNS TO SIDES. PAINT BACK OF PANEL SOLID WITH DOMINANT COLOR.
3. SEAL SIGNS WITH TRANSPARENT ANTI-GRAFFITI Film.

SIGN TYPE 3 NUMBERS CHART

<table>
<thead>
<tr>
<th>Numbers</th>
<th>Orange</th>
<th>Red</th>
<th>Track Number</th>
<th>Identification</th>
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<td>30-39</td>
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SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
ONE GATEWAY PLAZA, 12TH FLOOR, L.A., CA. 90012

ENGINEERING STANDARDS
INFORMATION / RESTRICTIVE
SIGN TYPE 3
SIGN TYPE 3 - TRACK IDENTIFICATION
INFORMATION / DIRECTIONAL SIGN

1. FLAG MOUNT TO ROUND POLE

   - SIGN PANEL MOUNTS TO BACK PANEL OF BRACKET

2. FLAG MOUNT TO SQUARE POST

   - SIGN PANEL MOUNTS TO SQUARE POST

3. WALL MOUNT TO METAL

   - SIGN PANEL ATTACHED TO METAL SURFACE

4. WALL MOUNT TO HARDSCAPE

   - SIGN PANEL ATTACHED TO WALL

5. FLAG MOUNT TO SQUARE POLE

   - SIGN PANEL MOUNTS TO SQUARE POLE

6. WING BRACKET MOUNTING POINT

   - AMERICAN SIGN BRACKETS OR APPROVED EQUAL

7. POLE MOUNT ON EXISTING POLE

   - SIGN PANEL MOUNTS TO EXISTING POLE

8. HORIZONTAL MOUNTING CONDITION

   - SIGN PANEL MOUNTS TO METAL POLE

ATTACHMENT DETAILS

- STAINLESS STEEL STRAP
- FLAT HEAD CONCRETE ANCHOR
- CONCRETE PILED INTO HOLES
- LIGHT STANDARD PILE
- POLE POST MOUNT
- WING BRACKET MOUNTING POINT
- FLUSH HEAD SCREWS
- TAMPER PROOF FASTENERS
- PAINTED STEEL BRACKET
- SIGN PANEL BACK
- SADDLE MOUNTED ON 3" SQUARE POST
- MOUNTED TO CORED CONCRETE
- PAINTED STEEL PANEL
- ATTACHMENT SCREWS, QTY. AS REQ'D.
INFORMATION / DIRECTIONAL SIGN

SIGN TYPE 3 - EXIT SIGN

NOTE:

1. WHERE FENCE IS LOCATED LESS THAN 10'-2" FROM CENTERLINE OF TRACK, INSTALL TALL VERSION OF SIGN WITH SIGN PANEL POINTING AWAY FROM TRACK. (SEE A)

2. WHERE DISTANCE FROM CENTERLINE OF TRACK TO FENCE IS 10'-2" OR GREATER, INSTALL SHORT VERSION OF SIGN WITH SIGN PANEL POINTING TOWARD TRACK. (SEE B)

3. SEE NOTE 4, ES2102.

FLAG MOUNT - SHORT (EXIT SIGN)  FLAG MOUNT - TALL (EXIT SIGN)
NOTES:
1. CONTINUE PAINT COLOR USED ON FRONT SURFACE OF SIGNS AROUND EDGES.
2. PAINT BACK SIGN PANEL TEAL.
3. ALL FASTENERS SHALL BE PLATED AND PAINTED TO MATCH SURROUNDING COLOR.
4. SEAL SIGN WITH TRANSPARENT ANTI-GRAFFITI FILM.
NOTES:
1. CONTINUE PANT COLOR USED ON FRONT SURFACE OF SIGNS AROUND EDGES.
2. PAINT SIGN BACK PANEL TEAL.
3. ALL FASTENERS SHALL BE PLATED AND PAINTED TO MATCH SURROUNDING COLOR.
4. SEAL SIGN WITH TRANSPARENT ANTI-GRAFFITI FILM.
5. PHONE NUMBERS AND ADDRESS TO BE PROVIDED BY COPY PRIOR TO FABRICATION.
# SIGN TYPE 6
ACCESSIBLE PARKING IDENTIFICATION SIGN

## NOTES:
1. SIGN COPY AND FINISHES SHALL CONFORM TO CALIFORNIA ACCESSIBILITY STANDARDS.
2. PAINT BACK OF SIGN PANEL BLUE.
3. ACCESSIBILITY PARKING SIGNS WHICH ARE SIMILAR TO THOSE SHOWN IN OUR STANDARDS MUST COMPLY WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES AND CALIFORNIA ACCESSIBILITY REGULATIONS CONTAINED IN TITLE 24, CALIFORNIA CODE OF REGULATIONS.

## ATTACHMENT DETAIL - PLAN SECTION

### COPY LAYOUTS

<table>
<thead>
<tr>
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<tbody>
<tr>
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### ELEVATIONS

<table>
<thead>
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<tbody>
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<td>6'-8&quot;</td>
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### ACCESSIBILITY

- BACKGROUND COLOR: DISABLED ACCESS BLUE
- COPY & SYMBOL COLOR: WHITE REFLECTIVE
- WESTERN HIGHWAY SIGN NO. RFHVA OR APPROVED EQUAL

### WESTERN HIGHWAY

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<tbody>
<tr>
<td>6'-0&quot;</td>
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### VAN ACCESSIBLE

- BACKGROUND COLOR: DISABLED ACCESS BLUE
- COPY COLOR: WHITE
- WESTERN HIGHWAY SIGN NO. RFHVA OR APPROVED EQUAL

### MINIMUM FINE $250

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### CALIFORNIA ACCESSIBILITY REGULATIONS CONTAINED IN TITLE 24, CALIFORNIA CODE OF REGULATIONS.

**MUST COMPLY WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES AND ACCESSIBILITY PARKING SIGNS WHICH ARE SIMILAR TO THOSE SHOWN IN OUR STANDARDS.**
NOTES:
1. SIGN COPY AND FINISHES SHALL CONFORM TO CALIFORNIA ACCESSIBILITY STANDARDS.
2. PAINT BACK OF SIGN PANEL BLUE.
3. PHONE NUMBERS AND ADDRESS TO BE PROVIDED BY CITY PRIOR TO FABRICATION.
4. ACCESSIBILITY PARKING SIGNS WHICH ARE SIMILAR TO THOSE SHOWN IN OUR STANDARDS MUST COMPLY WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES AND CALIFORNIA ACCESSIBILITY REGULATIONS CONTAINED IN TITLE 24, CALIFORNIA CODE OF REGULATIONS.

SIGN TYPE 7
ACCESSIBLE PARKING INFORMATION SIGN

COPY COLOR: WHITE
SIGN PANEL TO BE:
WESTERN HIGHWAY
SIGN NO. RFH1824P
OR APPROVED EQUAL

BACKGROUND COLOR:
DISABLED ACCESS BLUE

SIGN PANEL TO BE ATTACHED TO POST WITH TAMPER PROOF BOLT PER WESTERN HIGHWAY STANDARD

AUTHORIZED VEHICLES
PARKED IN DESIGNATED ACCESSIBLE SPACES
NOT DISPLAYING DISTINGUISHING PLACARDS OR LICENSE PLATES ISSUED FOR PERSONS WITH DISABILITIES MAY BE TOWED AWAY AT OWNER'S EXPENSE.
TOWED VEHICLES MAY BE RECLAIMED AT (ADDRESS) OR BY TELEPHONING (TELEPHONE NUMBER)

ELEVATIONS
FRONT 1
SIDE 2

CONCRETE FOOTING AS REQ'D.

C Copy Layout
ATTACHMENT DETAIL: PLAN SECTION

A

B

ELEVATIONS
FRONT 1
SIDE 2

CONCRETE FOOTING AS REQ'D.

C Copy Layout
ATTACHMENT DETAIL: PLAN SECTION

A

B

ELEVATIONS
FRONT 1
SIDE 2

CONCRETE FOOTING AS REQ'D.
SIGN PANEL
MATERIAL: 1/8" THICK ALUMINUM
FINISH: PAINTED TWO-PART POLYURETHANE SATIN
COLORS TO MATCH:
PMS COOL GRAY 7C - BACK PANEL
PMS 330C TEAL - FACE CIRCLE
PMS 321C ORANGE - FACE TRACK 1
PMS 395C GREEN - FACE TRACK 2
PMS 542C SKY BLUE - FACE TRACK 3

COPY
MATERIAL: LASER CUT VINYL
FINISH: MATTE - NON GLARE
COLOR: BRIGHT WHITE
APPLICATION: FIRST SURFACE

SIGN PANEL BACK
MATERIAL: 1/8" PAINTED ALUMINUM
CONSTRUCTION: MECHANICALLY ATTACH TO POST WITH FLUSH-HEAD SCREWS AS REQUIRED
APPLICATION: SECOND SURFACE

SIGN PANEL FACE
MATERIAL: 1/8" PAINTED ALUMINUM
CONSTRUCTION: ATTACH TO BACK PANEL WITH 3M VHB TAPE AROUND PERIMETER & SILICONE ADHESIVE AS REQUIRED - APPLY QUALITY PRIMARY TO ALL PAINTED SURFACES TO PREVENT ELECTROLYSIS.

SIGN PANEL BACK
MATERIAL: 1/8" PAINTED ALUMINUM
CONSTRUCTION: ATTACH TO POST PANEL WITH FLUSH-HEAD SCREWS AS REQUIRED
APPLICATION: SECOND SURFACE

SIGN PANEL FACE
MATERIAL: 1/8" PAINTED ALUMINUM
CONSTRUCTION: ATTACH TO BACK PANEL WITH VHB TAPE
APPLICATION: FIRST SURFACE

SIGN PANEL: HARDSCAPE MOUNTING CONDITION WITH CORE AND DRILL
MATERIAL: 2" SQUARE PAINTED STEEL
FINISH: PAINTED STEEL
CONSTRUCTION: WELDED TO POST AND FASTENED TO CONCRETE ANCHORS WITH TAMPER-PROOF BOLTS

SIGN PANEL: LANDSCAPE MOUNTING CONDITION
MATERIAL: 2" SQUARE PAINTED STEEL
FINISH: WHITE
CONSTRUCTION: WELDED TO POST AND FASTENED TO CONCRETE ANCHORS WITH TAMPER-PROOF BOLTS

CONCRETE FOOTING TO DEPTH AS REQUIRED

EXISTING HARDSCAPE
SIGN POST: HARDSCAPE MOUNTING CONDITION WITH FLANGE
MATERIAL: 1/8" THICK ALUMINUM PANEL
CONSTRUCTION: ATTACH TO POST PANEL WITH 3M VHB TAPE AROUND PERIMETER & SILICONE ADHESIVE AS REQUIRED - APPLY QUALITY PRIMARY TO ALL PAINTED SURFACES TO PREVENT ELECTROLYSIS.

EXISTING MASONRY WALL
WALL MOUNT TO MASONRY

EXISTING FENCE WALL / GATE STRUT
FENCE MOUNT

FLANGE
CONSTRUCTION: WELDED TO POST AND FASTENED TO CONCRETE ANCHORS WITH TAMPER-PROOF BOLTS
FINISH: WHITE
CONSTRUCTION: WELDED TO POST AND FASTENED TO CONCRETE ANCHORS WITH TAMPER-PROOF BOLTS

FLUSH-HEAD CONCRETE ANCHOR
DEPTH AS REQUIRED

CONCRETE POURED INTO CORED HOLE
DEPTH AS REQUIRED

SIGN PANEL BACK
MATERIAL: 1/8" PAINTED ALUMINUM
EXISTING HARDSCAPE

SIGN PANEL FACE
MATERIAL: 1/8" PAINTED ALUMINUM
EXISTING MASONRY WALL

ATTACHMENT DETAILS

POST MOUNT
WALL MOUNT / HIGH FENCE MOUNT
HALF-HEIGHT FENCE MOUNT

ELEVATIONS

1. POST MOUNT
2. WALL MOUNT / HIGH FENCE MOUNT
3. HALF-HEIGHT FENCE MOUNT

TYPICAL, UNLESS NOTED OTHERWISE

SIGN TYPE 11
SIGN TYPE 12
ELEVATOR DIRECTIONAL SIGN

SIGN PANEL:
- MATERIAL: 1/8" THICK ALUMINUM
- FINISH: PAINTED TWO-PART POLYURETHANE SATIN
- COLORS TO MATCH:
  - PMS Cool Gray 7C - BACK PANEL
  - PMS 323C Teal - FACE CIRCLE
  - PMS 621C Orange - FACE TRACK 1
  - PMS 355C Green - FACE TRACK 2
  - PMS 542C Sky Blue - FACE TRACK 3

COPY:
- MATERIAL: LASER CUT VINYL
- FINISH: MATTE - NON GLARE
- COLOR: BRIGHT WHITE
- APPLICATION: FIRST SURFACE

POST MOUNT:
- MOUNT TO MASONRY
- MATERIAL: 2" SQUARE PAINTED STEEL POST
- FINISH PAINT COLOR: WHITE
- CONSTRUCTION: WELDED TO POST AND FASTENED TO CONCRETE ANCHORS WITH TAMPER-PROOF BOLTS
- FINISH COLOR: WHITE

WALL MOUNT / HIGH FENCE MOUNT:
- TYPICAL UNLESS NOTED OTHERWISE

HALF-HEIGHT FENCE MOUNT:
- MOUNT TOP EDGE OF SIGN 1" BELOW CROSS BAR ON HALF-HEIGHT FENCES (APPROXIMATELY 3'-0" FROM GRADE)

ELEVATOR DIRECTIONAL / FACE PANEL COPY LAYOUTS:
- ATTACH SIGN PANEL FACE ATTACH TO BACK PLATE WITH VHB TAPE

ELEVATOR DIRECTIONAL / BACK PANEL:
- ATTACH SIGN PANEL BACK MATERIAL: 1/8" THICK ALUMINUM PANEL CONSTRUCTION: MECHANICALLY ATTACH TO POST WITH FLUSH-HEAD SCREWS AS REQUIRED FINISH PAINT COLOR: WHITE
- CONSTRUCTION: WELDED TO POST AND FASTENED TO CONCRETE ANCHORS WITH TAMPER-PROOF BOLTS
- FINISH COLOR: WHITE

ATTACHMENT DETAILS:
- SQUARE POST MOUNT
- WALL MOUNT TO MASONRY
- FENCE MOUNT

SIGN PANEL BACK:
- MATERIAL: 1/8" THICK ALUMINUM PANEL
- CONSTRUCTION: MECHANICALLY ATTACH TO POST WITH FLUSH-HEAD SCREWS AS REQUIRED
- FINISH PAINT COLOR: WHITE
- CONSTRUCTION: 2" SQUARE PAINTED STEEL POST
- FINISH PAINT COLOR: WHITE

SIGN PANEL FACE:
- MATERIAL: 1/8" THICK ALUMINUM PANEL
- CONSTRUCTION: MECHANICALLY ATTACH TO POST WITH FLUSH-HEAD SCREWS AS REQUIRED
- FINISH PAINT COLOR: WHITE

EXISTING HARDSCAPE:
- CONCRETE POURED INTO CORED HOLE
- FLUSH-HEAD CONCRETE ANCHOR DEPTH AS REQUIRED
- BACK PANEL SAME SIZE AS SIGN PANEL
- SIGN PANEL BACK 1/8" PAINTED ALUMINUM
- EXISTING MASONRY WALL
- FENCE / GATE STRUT
- TAMPERPROOF FASTENER AND FLUSH HEAD SCREW AS_REQUIRED

EXISTING MASONRY WALL:
- CONCRETE POURED INTO CORED HOLE
- FLUSH-HEAD CONCRETE ANCHOR DEPTH AS REQUIRED
- BACK PANEL SAME SIZE AS SIGN PANEL
- SIGN PANEL BACK 1/8" PAINTED ALUMINUM
- EXISTING MASONRY WALL
- FENCE / GATE STRUT
- TAMPERPROOF FASTENER AND FLUSH HEAD SCREW AS_REQUIRED

NOTE:
- ATTACH QUALITY PRIMARY TO ALL PAINTED SURFACES TO PREVENT ELECTROLYSIS. TYPICAL, ALL SIGNS.

APPLICATION:
- FIRST SURFACE
SIGN TYPE 13  ELEVATOR IDENTIFICATION SIGN - FLAG MOUNTED

ATTACHMENT DETAIL

FLAG MOUNT TO MASONRY WALL

METAL BRACKET:
ATTACH TO EXISTING MASONRY WALL WITH CONCRETE ANCHORS - DEPTH AND SILICONE ADHESIVE AS REQUIRED
COLOR: GRAY

METAL BRACKET:
ATTACH TO SIGN PANEL WITH FLUSH HEAD FASTENER
COLOR: GRAY

DOUBLE FACED SIGN PANEL

EXISTING MASONRY WALL

SIGN PANEL
MATERIAL: 1/8" THICK ALUMINUM
FINISH: PAINTED TWO-PART POLYURETHANE SATIN
COLOR: PMS 323C TEAL

COPY
MATERIAL: LASER CUT VINYL
FINISH: MATTE - NON GLARE
COLOR: BRIGHT WHITE
APPLICATION: FIRST SURFACE

ELEVATION

FLAG MOUNT / TYPICAL UNLESS NOTED OTHERWISE

COPY LAYOUTS

SIGN PANEL FACE 1

SIGN PANEL
MATERIAL: 1/8" THICK ALUMINUM
FINISH: PAINTED TWO-PART POLYURETHANE SATIN
COLOR: PMS 323C TEAL

SIGN PANEL FACE 2

COPY
MATERIAL: LASER CUT VINYL
FINISH: MATTE - NON GLARE
COLOR: BRIGHT WHITE
APPLICATION: FIRST SURFACE

MOUNTING BRACKET

R = 1/2" (TYP.)

MOUNTING BRACKET

R = 1/2" (TYP.)

1-5/8"

MOUNTING BRACKET

R = 1/2" (TYP.)

2 5/8"

4 5/8" ARROW HT

9 1/8" SQ. PICTO

2"
**Detail C** Notes:

1. SIGN TO BE CONSTRUCTED OF 1/8" THICK MILL FINISH ALUMINUM PANEL, ALCOA 6016-T6 OR EQUAL.
2. SIGN FRAME/FRAME TO BE 3M HIGH INTENSITY PRISMATIC SERIES 3930-WHITE.
3. SIGN TO BE COATED WITH 3M 1160 PREMIUM PROTECTIVE OVERLAY.
4. COPY AND BORDER TO BE BLACK UNLESS OTHERWISE NOTED.
5. COLOR SPECIFICATIONS PER METROLINK ENGINEERING STANDARD ES3301.
6. FOR MOUNTING INSTRUCTIONS SEE METROLINK ENGINEERING STANDARD ES3307-03.
7. SIGNS TO BE PLACED STARTING 50 FEET AWAY FROM NEAREST PEDESTRIAN CROSSING, ADDITIONAL SIGNS TO BE PLACED 100 FEET APART AS NEEDED ALONG FENCING TO COVER ENTIRE LENGTH OF PLATFORM.
8. FOR STATIONS THAT DO NOT HAVE INTERTRACK FENCING SIGNS ARE TO BE LOCATED ON STATION PLATFORM AT LOCATIONS CLEARLY VISIBLE TO ALL PASSENGERS AND PEDESTRIANS.

**A** ELEVATION - CROSSING WARNING SIGN
(SIGN TYPE 14)

**B** DETAIL/PICTOGRAPH

**C** CAUTION SIGN

**ELEVATION - CROSSING WARNING SIGN**

**BE3317**

**CAUTION!**

**STAY BEHIND YELLOW LINE**

**NOT ALL TRAINS STOP AT STATION!**

Transit users subject to arrest.

CA Penal Code § 555, 369(i).

**Trespassers subject to arrest.**

CA Penal Code § 555, 369(i).

**CAUTION!**

**STAY BEHIND YELLOW LINE**

**NOT ALL TRAINS STOP AT STATION!**

Transit users subject to arrest.

CA Penal Code § 555, 369(i).

**Trespassers subject to arrest.**

CA Penal Code § 555, 369(i).
Push Gate To Open
Empuje para abrir

Pull Gate To Open
Jale para abrir

Exit Only
Salida Solamente

NOTE:
SEE ES4002 FOR ADDITIONAL SIGN MOUNTING INFORMATION

SIGN MOUNTING INFORMATION
SEE ES4002 FOR ADDITIONAL

COLOR: RED
SYMBOL

COLOR: BLACK
COPY

PAINTED ALUMINUM
" THICK

FILM
ANTI-GRAFFITI
TRANSPARENT
SEAL SIGN WITH

PER ES3307-02
SEE DETAIL B-3
FOR GATE CONDITION
MOUNTING DETAIL
SEE DETAIL B-3
PER ES3307-02

NOTE:
- XX
XX
REVISION
XX-XX-XX
X

A. CARLOS

3318

SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
ONE GATEWAY PLAZA, 12TH FLOOR, L. A., CA. 90012

ENGINEERING STANDARDS
PEDESTRIAN DIRECTIONAL SIGN
GATE MOUNTED
SIGN TYPE 15

ELEVATION

DETAIL

COPY LAYOUT

COPY LAYOUT

RESTRICTIVE SIGN
SIGN TYPE 16
PEDESTRIAN DIRECTIONAL SIGN - POLE MOUNTED

3M EXTERIOR GRADE
VINYL DIE CUT SHEETING
COLOR: WHITE

SEAL SIGN WITH TRANSPARENT
ANTI-GRAFFITI FILM

C/L OF PANEL & COPY

SILKSCREENED COPY
COLOR: BLACK

SIGN TYPE 16
3'-0" X 1'-6"

ST 16
3'-0" X 1'-0"

SIGNS MOUNT TO 2" SQUARE
PAINTED ALUMINUM POST
COLOR: WHITE
(SEE ATTACHMENT DETAIL 4 ES3307-03)

3'-0" FROM GATE

5'-0" TO CENTER OF ST 16

CONCRETE FOOTING AS REQUIRED

COPY LAYOUT

ENG. DES.
DATE
REV.
DESCRIPTION
DRAWN BY
DATE:
FOR NON-SCRRA APPROVED USES:
ALL RIGHTS RESERVED.
ANY FORM OR BY ANY MEANS WITHOUT THE PRIOR WRITTEN PERMISSION OF SCRRA.
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Plot Driver=> S:\Plot Drivers\practice_pdf.plt
FileName=> S:\V8EngStds\3000\ES3319_revA.dgn

A. CARLOS
04/01/09

SIGN TYPE 16
POST MOUNTED
PEDESTRIAN DIRECTIONAL LOOK SIGN

SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
ONE GATEWAY PLAZA, 12TH FLOOR, L. A., CA. 90012

ENGINEERING STANDARDS
ES3319
Hunter Park

ATTACHMENT DETAIL - SECTION

ATTACH SIGN PANEL TO BACK PANEL WITH TAMPERPROOF HARDWARE AS REQUIRED. APPLY QUALITY PRIMER TO ALL PAINTED SURFACES TO PREVENT ELECTRICAL SURFACES TO PREVENT ELECTRICITY SPOTS. PANEL WITH TAMPERPROOF HARDWARE.

NOTES:
1. CONTINUE PAINT COLORS USED ON FRONT SURFACE OF SIGN CABINET AROUND EDGES.
2. BACK OF SIGN CABINET COLOR TEAL.
3. CONTINUE BACKGROUND & SIDE COLORS AROUND TOP, BOTTOM & SIDES.
4. LOGO COLOR PER E8330-02.

SIGN TYPE 20
STATION IDENTIFICATION SIGN (SMALL)
SMALL POLE MOUNTED
MORENO VALLEY  
MARCH FIELD

NOTE:
1. CONTINUE PAINT COLORS USED ON FRONT SURFACE OF SIGN CABINET AROUND EDGES.
2. BACK OF SIGN CABINET COLOR: TEAL.

ATTACHMENT DETAIL - PLAN SECTION

LIGHT STANDARD

ATTACHMENT DETAIL - SECTION

STAINLESS STEEL STRAP

ATTACHMENT DETAIL - ELEVATION

SIGN CABINET

NOTE:
1. CONTINUE PAINT COLORS USED ON FRONT SURFACE OF SIGN CABINET AROUND EDGES.
2. BACK OF SIGN CABINET COLOR: TEAL.

SIDE ELEVATION

COPY COLOR: WHITE

SIGN CABINET

LOGO COLOR PER
ES3301-02

COPY LAYOUT

LIGHT STANDARD
NOTES:
1. ALL DIMENSIONS & NOTES TYPICAL EXCEPT AS NOTED.
2. CONTINUE PAINT COLOR USED ON FRONT SURFACE OF SIGNS AROUND EDGES.
3. BACK OF SIGN PANELS TO BE PAINTED TEAL UNLESS NOTED.
4. TREE'S SPACE WITH TRANSPARENT ANTI-GRAFFITI FILM BEFORE FABRICATION.

1. WILL MOUNT (SEE 6 ES3307-03 FOR INSTALLATION)
2. POST MOUNT (SEE 6 ES3307-03 FOR INSTALLATION)
3. LIGHT POLE MOUNT (SEE 6 ES3307-03 FOR INSTALLATION)
4. CANOPY MOUNT (SEE 6 ES3307-03 FOR INSTALLATION)
5. FENCE MOUNT (SEE 7 ES3307-03 FOR INSTALLATION)

ENGLISH COPY: BERTOLD
SPANISH COPY: BERTOLD

METROLINK SUPER
METROLINK MEDIUM
NOTES:

FOR MOUNTING DETAILS SEE ES3307-05.

Valid Fare Required on the Platform and on the Train

Persons without valid fare are subject to a fine that may exceed $1,500

Penal Code CA 640 (c)

SILKSCREENED COPY
COLOR: BLACK
3M EXTERIOR GRADE VINYL DIE CUT SHEETING
COLOR: WHITE
SEAL SIGN WITH TRANSPARENT ANTI-GRAFFITTI FILM

BORDER COLOR: RED

Valid Fare Required Beyond This Point

Comprobante de pasaje valido requerido
Mas alla de este punto

Fine may exceed $1,500

Multa de hasta $1,500

Penal Code CA 640 (c)

SILKSCREENED COPY
COLOR: BLACK
3M EXTERIOR GRADE VINYL DIE CUT SHEETING
COLOR: WHITE
SEAL SIGN WITH TRANSPARENT ANTI-GRAFFITTI FILM

BORDER COLOR: RED

Valid Fare Required on the Platform and on the Train

Persons without valid fare are subject to a fine that may exceed $1,500

Penal Code CA 640 (c)

SILKSCREENED COPY
COLOR: BLACK
3M EXTERIOR GRADE VINYL DIE CUT SHEETING
COLOR: WHITE
SEAL SIGN WITH TRANSPARENT ANTI-GRAFFITTI FILM

BORDER COLOR: RED
NOTE:
1. SIGN CABINET SHALL BE FABRICATED STAINLESS STEEL W/ VERTICAL
   DRAW BRUSHED FINISH CABINET SHALL BE CONSTRUCTED WITH INTERNAL
   STEEL STRUCTURE AS REQUIRED. ALL CORNERS SHALL BE REINFORCED
   TO PREVENT SEPARATION.
2. CABINET SHALL NOT HAVE ANY VISIBLE SEAMS.
3. CABINET DESIGN SHALL BE REVERSED AND MOUNTED TO EXISTING HARDSCAPE
   CONDITIONS. AND BE FABRICATION & INSTALLATION. DESIGN OF CABINET
   TO SATISFY ALL LOCAL CODES & WIND LOAD FACTORS.
4. CABINET SHALL BE WEATHERPROOF.
5. CABINET DOORS SHALL HAVE STAINLESS STEEL COUNTERSUNK TAMPERPROOF
   STAR-HEAD BOLTS ON REQUIRED SIDE. MEET BOLT ON INTERIOR.
6. CABINET SHALL HAVE INTERIOR STORAGE SHELF.
7. CABINET SHALL HAVE ONE HINGED INTERIOR PANEL TO ACCESS STORAGE SHELF.
8. PROVIDE NON-HINGED SIDE OF PANEL W/ STAR-HEAD BOLTS.
9. ACCESS TO CABINET SHALL BE BY REMOVING BOLTS ALONG LEFT SIDE OF DOORS.
10. PROVIDE CHANNELS AS NECESSARY TO FACILITATE REPLACEMENT OF CLEAR WINDOW PANELS.

MAP INFO KIOSK - FREESTANDING

A. LOGO TO BE ETCHED INTO ALL FOUR SIDES; DO NOT FILL WITH PAINT
   CABINET DOOR TO BE FLUSH W/ SURFACE OF FRAME
   WINDOW TO BE 1/4" WIDE STAINLESS STEEL OR POLYCARBONATE PANEL W/ ABRASION RESISTANT COATING
   ON EXTERIOR SURFACE
   TEMPERPROOF BOLT, TOP & BOTTOM OF DOOR
   INTERNAL STORAGE SHELF
   BACK PANEL TO BE PAINTED STL. SUFFICIENT TO ACCEPT MAGNETS OR TAPED MAPS
   COLOR: WHITE
   PERMANENTLY ANCHOR BASE TO EXISTING HARDSCAPE AS REQUIRED.
   NOTE: ALL SIDES IDENTICAL.

B. ELEVATION

C. PLAN

SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
ONE GATEWAY PLAZA, 12TH FLOOR, L.A., CA. 90012

ENGINEERING STANDARDS

MAP INFO KIOSK
FREESTANDING
SIGN TYPE 28

USERNAME: carlosa
DATE PLOTTED: 4/25/2017 10:47:36 AM
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FILE NAME: S:\V8EngStds\Revisions in progress\ES3326_revA.dgn

END OF CABINET RISE & LOGO

DIRECTION OF STAINLESS STEEL GRAIN
NOTES:
1. Continue paint color used on front surface of signs around edges.
2. Paint back sign panel teal.
3. All fasteners shall be stainless steel & shall be painted to match surrounding color.
4. Seal sign with transparent anti-graffiti film.
5. Refer to ES3320 and ES3321 for additional fabrication notes.

SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
ONE GATEWAY PLAZA, 12TH FLOOR, L.A., CA. 90012
PRINCIPAL ENGINEER: DESIGN & ENGINEERING
NOTE:
REFER TO D-28 FOR FABRICATION & INSTALLATION NOTES.

BACK-TO-BACK DISPLAY CASE ON EXIST. POSTS

FRONT PANEL OF LOGO / SYMBOL

1/2" SPACER

1/2" SPACER

TOP PANEL REVEAL

DO NOT FILL WITH PAINT INTO FRONT OF PANEL:
LOGO TO BE ETCHED 1.05 LOGO LETTER HEIGHT

TOP & BOTTOM OF DOOR TAMPER PROOF BOLTS
TAPED MAPS, COLOR: WHITE SUFFICIENT TO ACCEPT MAGNETS OR BACK PANEL TO BE PAINTED STEEL FLUSH WITH SURFACE OF FRAME STAINLESS STEEL DOOR TO BE ON EXTERIOR SURFACE PANEL WITH ABRASION RESISTANT COATING 1/16" (MIN.) CYROLON AR POLYCARBONATE RIGHT EDGE OF DOORS CONCEALED HINGE ALONG WALL ANCHOR (TYP) WALL ANCHOR (TYP) TO POST AS REQUIRED ANCHOR DISPLAY CASE TO WALL AS REQUIRED WALL MOUNTED POST/CANOPY MOUNTED #1 WALL MOUNTED DISPLAY CASE

2'-6" DISPLAY CASE

PLAN

FRONT - ELEVATION - CANOPY STRUCTURE MOUNTED

SIDE - ELEVATION - WALL MOUNTED

SIDE - ELEVATION - WALL MOUNTED
**Display Case - Single Sided**

**Notes:**

1. Display case shall be fabricated stainless steel w/ vertical grain brushed finish. Case shall be constructed with internal steel structure as required. All corners shall be reinforced to prevent separation.
2. Case shall have no visible seams.
3. Case shall be mounted and anchored to existing hard scape (conditions vary). For safe and secure installation, sign contractor shall engineer fabrication & installation of case to satisfy all local codes & wind load factors.
4. Case shall be weatherproofed.
5. Case doors shall have stainless steel countersunk, tamperproof stainless steel bolts on non-hinged side. Do not to bolt on interior side of door to prevent bolts from being removed.
6. Show all details on shop drawings.
7. Provide channels as need to facilitate replacement of clear window panels.

**Display Case - Single Sided**

- **Concrete footing or flange-mount as required.**
- **Select materials & show on shop drawings.**
- **SEE SHEETS E5331 & E5332.**

**Elevation - Post Mounted**

- **Concrete footing or flange-mount as required.**
- **Select materials & show on shop drawings.**
- **SEE SHEETS E5331 & E5332.**
SIGN TYPE 30
POSITION MARKER & TRACK IDENTIFICATION SIGN

ATTACH SIGN PANEL TO CANOPY STRUCTURE WITH TAMPER PROOF BOLTS AS REQ'D. PAINT BOLTS TO MATCH SIGN PANEL COLOR.

ATTACHMENT DETAIL

STEEL CANOPY STRUCTURE

PARTIAL ELEVATION - CANOPY

SIGN PANEL MOUNTED FLAT TO CANOPY ROOF

ATTACHMENT DETAIL

PLAN SECTION

SOUTH OF POST & SIGN PANEL

1/8" THICK PAINTED ALUM. BACK PANEL MECHANICALLY ATTACHED TO POST W/ FLUSHHEAD SCREWS AS REQ'D. (COLOR TO MATCH SIGN COLOR)

3" SQ. PAINTED STEEL POST COLOR: WHITE

1/8" THICK PAINTED ALUM. SIGN PANEL ATTACHED TO BACK PANEL W/ 3M VHB TAPE AROUND PERIMETER & SILICONE ADHESIVE AS REQ'D. FOR SAFE & SECURE MOUNTING

DRAWN BY: ALFRED C. CARLOS
DATE: 04/01/09

NOTE:
USE CORE & DRILL INSTALLATION METHOD OR FLANGE METHOD WHEN SIGNS ARE INSTALLED ON PLATFORM. USE CONCRETE FOOTING WHEN INSTALLING IN RIGHT OF WAY. REFER TO ES3307-03 FOR DETAILS.

NOTE:
CORRECT SCALE

NOTE:
FOR NON-SCRRA APPROVED USES:
ALL RIGHTS RESERVED. ANY FORM OR BY ANY MEANS WITHOUT THE PRIOR WRITTEN PERMISSION OF SCRRA. NO PART OF THESE STANDARDS SHOULD BE REPRODUCED OR DISTRIBUTED IN ANY FORM OR BY ANY MEANS WITHOUT THE PRIOR WRITTEN PERMISSION OF SCRRA.

NOTE:
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NOT FOR CONSTRUCTION

NOTE: THIS REPRESENTS A TYPICAL METROLINK STATION AND IS SHOWN FOR REFERENCE ONLY. ACTUAL STATIONS MAY VARY FROM THIS PLAN.
NEW LOCOMOTIVE  30B
OLD LOCOMOTIVE  30A

NOTE: WHERE MINI-HIGH PLATFORMS DO NOT ALIGN, TWO SETS OF CAR-LOCATOR SIGNS WILL BE REQUIRED

C/L OF TRACK 2 MINI-HIGH PLATFORM

C/L OF TRACK 1 MINI-HIGH PLATFORM

SIGN KEY

3 CARS
OLD LOCOMOTIVE
NEW LOCOMOTIVE

SPOT CAB

3 CARS

NOTE: THIS REPRESENTS A TYPICAL METROLINK STATION AND IS SHOWN FOR REFERENCE ONLY. ACTUAL STATIONS MAY VARY FROM THIS PLAN.

NOT FOR CONSTRUCTION

IDENTIFICATION DECAL APPLIED TO TICKET VALIDATOR

C/L OF TRACK 1 MINI-HIGH PLATFORM

C/L OF TRACK 2 MINI-HIGH PLATFORM

SPOT CAB

3 CARS

3 CARS

3 CARS

NEW LOCOMOTIVE

OLD LOCOMOTIVE

NOT FOR CONSTRUCTION

THIS REPRESENTS A TYPICAL METROLINK STATION AND IS SHOWN FOR REFERENCE ONLY. ACTUAL STATIONS MAY VARY FROM THIS PLAN.
NOT FOR CONSTRUCTION

NOTE:
THIS REPRESENTS A TYPICAL METROLINK STATION AND IS SHOWN FOR REFERENCE ONLY. ACTUAL STATIONS MAY VARY FROM THIS PLAN.
NOTES:
1. CONTINUE PANEL COLOR USED ON FRONT SURFACE OF SIGNS AROUND EDGES.
2. PAINT BACK SIGN PANEL TEAL.
3. ALL FASTENERS SHALL BE PLATED AND PAINTED TO MATCH SURROUNDING COLOR.
4. TEAL SIGN WITH TRANSPARENT ANTI-GRAFFITI FILM.

SCALE: 1" = 1'-0"

SECTION - POLE MOUNTED

CALL BOX
SOLAR PANEL & ANTENNA
BY OTHERS

1. FRONT VIEW - LIGHT POLE MOUNTED
NOTES:
1. All ticket vending machines are energized from the station power source (see ES3405-01 & ES3405-02).
2. Public address and LED message signs (PA & LED) are energized from the Communications Shelter.
3. For Communications Shelter see Communications Standard Drawings ES3400 thru ES3440.
4. For additional notes and legend see ES3001.
5. TVM Pad Location Varies by Station.
6. Refer to ES3503 for camera, speaker and LED message sign locations.

DRAWING IS DIAGRAMMATIC AND INDICATES
GENERAL ARRANGEMENT OF SYSTEM AND WORK
FOR CONDUIT SIZES SEE ES3405-01
SEE NOTE 5
LOCATION TVM PAD
SEE 3402-02 FOR DETAIL
PLATFORM (TYP)
CANOPY
DIRECTOR OF ENGINEERING AND CONSTRUCTION
REVISION
STANDARD SHEET
SCALE: CADD FILE:
ENG.
DES.
DATE
REV.
DESCRIPTION
DRAWN BY:
DATE:
FOR NON-SCRRA APPROVED USES:
ALL RIGHTS RESERVED.
ANY FORM OR BY ANY MEANS WITHOUT THE PRIOR WRITTEN PERMISSION OF SCRRA.
USE. NO PART OF THESE STANDARDS SHOULD BE REPRODUCED OR DISTRIBUTED IN
THIS INFORMATION AGREES THAT IT ASSUMES ALL LIABILITY ARISING FROM SUCH
AND REPRESENTATIONS OF ANY KIND ARE DISCLAIMED. ANYONE MAKING USE OF
SCRRA SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF
SCRRA ENGINEERING STANDARDS ARE INTENDED FOR SCRRA APPROVED USES ONLY.

NOTES:
1. ALL TICKET VENDING MACHINES ARE ENERGIZED FROM THE
STATION POWER SOURCE. (SEE ES3405-01 & ES3405-02)
2. PUBLIC ADDRESS AND LED MESSAGE SIGNS (PA & LED)
ARE ENERGIZED FROM THE COMMUNICATIONS SHELTER.
3. FOR COMMUNICATION SHIELDS SEE COMMUNICATIONS STANDARD
DRAWINGS ES9400 THRU ES9440.
4. FOR ADDITIONAL NOTES AND LEGEND SEE ES5500.
5. TVM PAD LOCATION VARIES BY STATION
6. REFER TO ES5503 FOR CAMERA, SPEAKER AND LED
MESSAGE SIGN LOCATIONS.

ACCESS POINT
COMMERCIAL POWER VAIL
TELCO SHELTER COMMUNICATIONS

DRAWING IS DIAGRAMMATIC AND INDICATES
GENERAL ARRANGEMENT OF SYSTEM AND WORK

SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
ONE GATEWAY PLAZA, 12TH FLOOR, L.A., CA. 90012

ENGINEERING STANDARDS
METROLINK STATION CONDUIT LAYOUT
CENTER PLATFORM

USERNAME=> carlosa

DATE PLOTTED: 7/23/2015 12:36:49 PM
Plot Driver=> S:\Plot Drivers\practice_pdf.plt
FileName=> S:\V8EngStds\Revisions in progress\ES3401-02_revB.dgn

ASSISTANT DIRECTOR: STANDARDS & DESIGN

FIBER VAULT
COMMUNICATIONS SHELTER
CENTER PLATFORM ACCESS POINT

1. TVM VAULT

2. TVM VAULT

3. TVM VAULT

4. TVM VAULT

5. TVM VAULT
TYPICAL CONDUIT DUCT BANK DETAIL

NOTES:
1. ALL CONDUITS SHALL BE RED CONCRETE ENLISTED WITH WARNING DECAL.
2. SPACING AND MATERIALS FOR MOUNTING BETWEEN CONDUITS SHALL BE A MINIMUM OF 2" CLEAR.
3. CONTRACTOR SHALL ADVANCE THE CONDUIT AS PER TRADE, SITE AND EXISTING CONDITIONS.
4. SEAL ALL CONDUIT OPENINGS TO PREVENT WATER DRAINAGE.
5. PROVIDE PRE-FABRICATED PLASTIC CONDUIT SPACERS EVERY 5' TO SUPPORT AND MAINTAIN UNIFORM SPACING.
6. CONCRETE FOR CONDUIT PROTECTION SHALL HAVE MINIMUM SLUMP OF 2" AND MAXIMUM OF 4".
7. PROVIDE RED WARNING TAPE OF CONDUITS AS SIZE AND QUANTITY INDICATED AND/OR AS REQUIRED.

TYPICAL SECTION THRU SINGLE PLATFORM

NOTES:
1. LOCATION OF CONDUITS ON THIS DRAWING SHOWN FOR REFERENCE ONLY. ACTUAL LOCATION OF CONDUITS VARIES BY LOCATION.
2. ORIENTATION OF POWER AND COMMUNICATION FEEDS TO TVM PAD VARIES BY LOCATION.
3. FOR NOTES AND LEGEND SEE ES3001.
TYPICAL CONDUIT DUCT BANK DETAIL

NOTES:
1. ALL CONDUITS SHALL BE RED CONCRETE EXCEPTLED WITH WIDOW IN ENVELOPE.
2. SPACING AND MENTAL SEPARATION BETWEEN CONDUITS SHALL BE A MINIMUM OF 2" CLEAR.
3. CONTRACTOR SHALL ARRANGE THE CONDUITS AS PER DESIGN, SITE, AND EXISTING CONDITIONS.
4. SEAL ALL CONDUIT OPENINGS TO PREVENT WATER PENETRATION.
5. PROVIDE PREFABRICATION PLASTIC CONDUIT SPACERS EVERY FEET TO SUPPORT AND MAINTAIN UNIFORM SPACING.
6. CONCRETE SELECTION FOR CONDUIT PROTECTION SHALL HAVE A MINIMUM SHIP OF 2" AND A MINIMUM OF 2" TO DETERMINE THE WARES AND WATER REDUCING ADMIXTURE ACCTOR CONTENT OF 190 POUNDS PER CUBIC YARD (2 SACKS); AND WATER REDUCING ADMIXTURE CEMENT CONTENT OF 2" AND MAXIMUM OF 4".
7. PROVIDE PREFABRICATED CONDUIT SPACING EVERY 5FT TO SUPPORT AND MAINTAIN UNIFORM SPACING.

WARNING TAPE
PROVIDE RED WARNING TAPE FOR NOTES AND LEGEND SEE ES3001.

TYPICAL SECTION THRU CENTER PLATFORM

NOTES:
1. LOCATION OF CONDUITS ON THIS DRAWING SHOWN FOR REFERENCE ONLY. ACTUAL LOCATION OF CONDUITS WILL DEPEND ON SITE SPECIFIC CONDITIONS AND TO BE DETERMINED AT THE TIME OF DESIGN.
2. FOR NOTES AND LEGEND SEE ES3001.
NOTES:
1. 4" x 4" x 4" x 4" DEEP VAULT WITH GALVANIZED COVER
2. 11" x 11" PULL BOX
3. SEPARATE METER SERVICE 100 AMP 120/240 SINGLE PHASE
4. SPARE CONDUIT TO RUN LENGTH OF PLATFORM AND STUBBED OFF AT END
5. FOR COMMUNICATIONS SHELTER SEE COMMUNICATIONS STANDARD DRAWINGS
   ES3403 AND ES3404
6. FOR ADDITIONAL NOTES AND LEGEND SEE ES3001

CENTER PLATFORMS

SIDE PLATFORMS
NOTES:
1. 4' x 4' x 4' DEEP VAULT WITH GALVANIZED COVER.
2. 11' x 17' PULL BOX.
3. SEPARATE METER SERVICE 100 AMP 120/240V SINGLE PHASE.
4. SPARE CONDUIT TO RUN LENGTH OF PLATFORM AND STUBBED OFF AT END.
5. FOR COMMUNICATIONS SHELTER SEE COMMUNICATIONS STANDARD DRAWINGS ES9400 THRU ES9440.
6. EXISTING STATIONS ARE SINGLE TENANT, NEW STATIONS ARE SHARED TENANT.
7. FOR ADDITIONAL NOTES AND LEGEND SEE ES3001.

11' x 17' PULL BOX.

NOTE 1

SEE NOTE 4

TO PLATFORM

NOTE 2

SEE NOTE 4

TO PLATFORM

NOTES:
1. PLATFORM
2. SINGLE/CENTER
3. DOUBLE PLATFORM

SEE NOTE 3

COMM. SHELTER

FOR ADDITIONAL NOTES AND LEGEND SEE ES3001.

EXISTING STATIONS ARE SINGLE TENANT, NEW STATIONS ARE SHARED TENANT.

FOR COMMUNICATIONS SHELTER SEE COMMUNICATIONS STANDARD DRAWINGS ES9400 THRU ES9440.

SEPARATE METER SERVICE 100 AMP/ 120/ 240V SINGLE PHASE.

11" x 17" PULL BOX.

SEE NOTE 4

TO PLATFORM

SEE NOTE 5

TO TELE VAULT

SEE NOTE 5

TO TELE VAULT

COMM. SHELTER

COMM. SHELTER

SINGLE/CENTER

DOUBLE PLATFORM

FOR ADDITIONAL NOTES AND LEGEND SEE ES3001.

EXISTING STATIONS ARE SINGLE TENANT, NEW STATIONS ARE SHARED TENANT.

FOR COMMUNICATIONS SHELTER SEE COMMUNICATIONS STANDARD DRAWINGS ES9400 THRU ES9440.

SEPARATE METER SERVICE 100 AMP/ 120/ 240V SINGLE PHASE.
LEGEND & NOTES

1. PULL BOX - 4" x 4" x 4" WITH ELECTRIC LOAD
2. PULL BOX - 4" x 4" x 4" WITH "COMM" LOAD
3. CHECKED COVER SIDEWALK JUNCTION BOX
   12" x 8" x 6" WITH BARRIER AS INDICATED
4. CHECKED COVER SIDEWALK JUNCTION BOX
   6" x 6" x 6" WITH BARRIER AS INDICATED
   CROUSE HINDS "WJBF060404" OR APPROVED EQUAL
   CROUSE HINDS "WJBF120806" OR APPROVED EQUAL
   LOGO PULL BOX - 17"L X 11"W X 12" D WITH "COM"
   LOGO PULL BOX - 17"L X 11"W X 12" D WITH ELECTRIC LOAD
   LOGO PULL BOX - 17"L X 11"W X 12" D WITH "COM" LOAD
   METROLINK STATION
   TVM PAD (COMPLETE CONFIGURATION)

FOR ADDITIONAL NOTES AND LEGEND SEE ES3001

INDICATES FRONT FACE OF INSTALLED EQUIPMENT

NOTES

- FOR CONTINUATION OF CONDUIT RUNS SEE PLATFORM PLAN AND ELAIA.
SPEAKER DIAGRAM

SPEAKER SETUP PER PLATFORM

- AMBIENT NOISE SENSOR
- AMBIENT NOISE SENSOR CABLE
- COMMUNICATION SHELTER
- SPEAKERS
- TO NEXT SPEAKERS
- 2 WIRE AUDIO FROM AUDIO AMPLIFIER

CUSTOMER INFORMATION SYSTEM (CIS) FOR EXISTING STATIONS SPEAKER DIAGRAM
LED MESSAGE SIGN DIAGRAM

LED SETUP PER PLATFORM

120 VAC FOR STROBE
RELAY CONTACT
RS422/RS485 INPUT
RS422/RS485 OUTPUT
RS422/485
RS422/485
COMMUNICATION SHELTER

TO NEXT LED MESSAGE SIGN

SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
ONE GATEWAY PLAZA, 12TH FLOOR, L.A., CA. 90012
SPEAKER DIAGRAM

SPEAKER SETUP PER STATION

AMBIENT NOISE SENSOR

AMBIENT NOISE SENSOR CABLE

COMMUNICATION SHELTER

TO NEXT SPEAKERS

SPEAKERS

2 WIRE AUDIO FROM AUDIO AMPLIFIER #1

2 WIRE AUDIO FROM AUDIO AMPLIFIER #2

SPEAKERS

TO NEXT SPEAKERS

SPEAKERS

CUSTOMER INFORMATION SYSTEM (CIS)
NOTES:

1. SUNSHIELD and strobe light are not shown.
2. SUNSHIELD SUPPORT to be welded to SUNSHIELD.
3. SUNSHIELD SUPPORT not shown for clarity.
4. DIMENSIONS for all details shall not be exceeded. Dimensions are based on MAXIMUM dimensions of 55"W x 17"H x 11"D.
5. CONDUIT ENTRY will be shown when component part numbers are finalized.

SUNSHIELD SUPPORT to be welded to SUNSHIELD.
SUNSHIELD and STROBE LIGHT are not shown.
CONDUIT ENTRY will be shown when component part numbers are finalized.
LED MOUNTING DETAIL TOP VIEW
LED MOUNTING DETAIL TOP VIEW (DUAL SIDED)
LED MOUNTING DETAIL ELEVATION
LED MOUNTING DETAIL ELEVATION (DUAL SIDED)
NOTES:
1. LED VIDEO MONITOR ENCLOSURE AND MOUNTING POST ASSEMBLY BY ITS ENCLOSURES.
2. MOUNTING POST IS CARBON STEEL WITH A POLYESTER POWDER PAINT FINISH.
3. ENCLOSURE IS MARINE GRADE ALUMINUM, FORMED AND WELDED, WATER TIGHT, WITH POLYESTER POWDER FINISH.
4. UNLESS OTHERWISE SPECIFIED, ENCLOSURE AND SUPPORTS PAINT COLOR WILL BE SILVER.
NOTES

1. CONDUIT SHALL EXTEND 2" MAXIMUM ABOVE FINISHED SURFACE OF FOUNDATION.
2. ANCHOR BOLTS SHALL BE BONDED TO CONDUIT OR GROUNDING CONDUCTOR.
3. USE FOR METROLINK ENGINEERING STANDARD 3504.

FOUNDATION DETAIL

ANCHOR BOLTS DETAIL

BASE PLATE BOLT PATTERN DETAIL

CONDUIT STUB-UP DETAIL

ANCHOR BOLTS SHALL BE BONDED TO CONDUIT OR GROUNDING CONDUCTOR.
NOTES:

1. LIGHT POLE AND CANOPY SHOWN AS REFERENCE ONLY ACTUAL DESIGN VARIES BY STATION.

2. PLACEMENT OF CIS SIGNS, STROBES AND SPEAKERS SHALL BE LOCATED BY THE CONTRACTOR TO MAXIMIZE VISIBILITY AND SOUND DISTRIBUTION, AND VARIES BY STATION. THE TOP SIDE OF THE LED SIGN SHALL BE INSTALLED APPROXIMATELY ONE FOOT LOWER THAN THE SPEAKER.

3. SINGLE OR DOUBLE SIDED CIS SIGN AND SPEAKERS AS APPLICABLE.

4. FOR ADDITIONAL PLATFORM INFORMATION NOT SHOWN SEE DRAWINGS ES3201 & ES3202 AS APPLICABLE.
NOTES:
1. LIGHT POLE AND CANOPY SHOWN AS REFERENCE ONLY ACTUAL DESIGN VARIES BY STATION.
2. PLACEMENT OF CIS SIGNS, STROBES AND SPEAKERS SHALL BE LOCATED BY THE CONTRACTOR TO MAXIMIZE VISIBILITY AND SOUND DISTRIBUTION AND VARIES BY STATION. THE TOP SIDE OF THE LED SIGN SHALL BE INSTALLED APPROXIMATELY ONE FOOT LOWER THAN THE SPEAKER.
3. SINGLE OR DOUBLE SIDED CIS SIGN AND SPEAKERS AS APPLICABLE.
4. FOR ADDITIONAL PLATFORM INFORMATION NOT SHOWN, SEE DRAWINGS ES3201 & ES3202 (AS APPLICABLE).

CENTER PLATFORM
### EXISTING STATIONS

#### MATERIALS LIST

<table>
<thead>
<tr>
<th>ITEM DESCRIPTION</th>
<th>RECOMMENDED MANUFACTURERS</th>
<th>MODEL NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. ETHERNET SWITCH W/SFP</td>
<td>HP</td>
<td>M6191D</td>
</tr>
<tr>
<td>2. AUDIO AMPLIFIER</td>
<td>CROWN</td>
<td>C16 4200</td>
</tr>
<tr>
<td>3. PRIORITY CONTROLLER</td>
<td>BSS AUDIO</td>
<td>BLU-16</td>
</tr>
<tr>
<td>4. 47&quot; COMMERCIAL LED VIDEO MONITOR</td>
<td>LG</td>
<td>47WX50W</td>
</tr>
<tr>
<td>5. NETWORK MEDIA PLAYER</td>
<td>VIEWSONIC</td>
<td>NMP-530, VS1681</td>
</tr>
<tr>
<td>6. STROBE LIGHT</td>
<td>FEDERAL SIGNAL</td>
<td>130ST</td>
</tr>
<tr>
<td>7. AUDIO PRESENCE DETECTOR</td>
<td>DAVICOM</td>
<td>DAP-01</td>
</tr>
<tr>
<td>8. STATION CONTROLLER</td>
<td>SUPERLOGICS</td>
<td>SL-1U-CH005-LA</td>
</tr>
<tr>
<td>9. INTERFACE CONVERTER</td>
<td>PERLE</td>
<td>IOLAN D51</td>
</tr>
<tr>
<td>10. ENVIRONMENTAL DISTRIBUTION CENTER</td>
<td>CORNING</td>
<td>CCM-240</td>
</tr>
<tr>
<td>11. BATTERY</td>
<td>EATON INNOVATIVE TECHNOLOGY</td>
<td>PW9130N 3000REBM21</td>
</tr>
<tr>
<td>12. UPS</td>
<td>EATON INNOVATIVE TECHNOLOGY</td>
<td>PW9130 L2000R-XL2US</td>
</tr>
<tr>
<td>13. CLOSET CONNECTOR HOUSING PANEL MODULES</td>
<td>CORNING</td>
<td>CCM SERIES</td>
</tr>
<tr>
<td>14. SPICE MODULES</td>
<td>CORNING</td>
<td>CCM SERIES</td>
</tr>
<tr>
<td>15. LED VIDEO MONITOR ENCLOSURE INCLUDING 47&quot; LED VIDEO MONITOR, INSULATION, ENCLOSURE POST, Brackets, Mounts, Stainless Steel Mounting Post and Brackets</td>
<td>TRANSITION NETWORKS</td>
<td>CPMUSC 1810-200</td>
</tr>
<tr>
<td>16. LED MESSAGE SIGNS</td>
<td>DAKTRONICS</td>
<td>AF-6300-16X9-12-A-S</td>
</tr>
<tr>
<td>17. MODULAR MEDIA CONVERTER</td>
<td>TRANSITION NETWORKS</td>
<td>CPMUSC 1810-200</td>
</tr>
<tr>
<td>18. LED VIDEO MONITOR/MESSAGE SIGNAL DPD</td>
<td>CORNING</td>
<td>5FM-01P</td>
</tr>
<tr>
<td>19. AMBIENT NOISE SENSOR</td>
<td>TELEX</td>
<td>M6-300</td>
</tr>
</tbody>
</table>

### NEW STATIONS

#### MATERIALS LIST

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<td>47WX50W</td>
</tr>
<tr>
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<td>NMP-530, VS1681</td>
</tr>
<tr>
<td>6. STROBE LIGHT</td>
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</tr>
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<td>PERLE</td>
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<td>CORNING</td>
<td>CCM-240</td>
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</tr>
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</tbody>
</table>
NOTES:

1. THIS DRAWING FOR REFERENCE ONLY. PLATFORM LAYOUT VARIES BY LOCATION.

2. PLATFORM CAMERAS TO BE MOUNTED ON THE SAME PLATFORM MOUNTING DETAILS.

3. PLATFORM CAMERAS TO BE MOUNTED ABOVE PA SPEAKERS WHEN APPLICABLE. MOUNT CAMERAS AT A HEIGHT TO MAXIMIZE THE COVERAGE AREA.

4. SEE DRAWING ES3504 AND ES3505 FOR CIS SIGN AND SPEAKER MOUNTING DETAILS.

5. ALL PLATFORM CAMERAS SHALL BE OF THE PIV (PAN-tilt-ZOOM) TYPE, UNLESS APPROVED OTHERWISE.

6. PLATFORM CAMERA MOUNTING LOCATIONS AND DETAILS TO BE APPROVED BY SCRRA PRIOR TO INSTALLATION.

7. DUAL CAMERAS SHOWN FOR CLARITY. SINGLE 180/360 DEGREE CAMERA PREFERRED.
GENERAL NOTES:

1. All cabling shown is Category 6 (CAT-6) network cable unless noted otherwise.
2. Total CAT-6 network cable length from network switch to POE network camera shall not exceed 656 feet (200m) with one (1) POE extender (328 feet (100m) with no POE extender).
3. One (1) RJ45 port per network switch per POE network camera.

LEGEND:

- POE: Power over Ethernet
- NMS: Network management system
- KVM: Keyboard-video-mouse
- FOPP: Fiber optic patch panel
- SP: Surge protector
- MMFO: Multimode fiber optic

NETWORK VIDEO RECORDER W/ VMS SOFTWARE (SERVER)

POE AGGREGATION SWITCH

POE MIDSPAN INJECTOR

POE SURGE PROTECTOR (RACK MOUNT)

VMS CLIENT

POE EXTENDER

TELECOMMUNICATIONS ROOM

FOPP

POE PATCH CABLE

MMFO CABLE

ANTENNA CABLE

ANTENNA

WIRELESS RADIO SYSTEM

POE SP

POE SWITCH

POE

POE SP

POE SP

POE SP

POE SP

POE SP

POE SP

POE SP

POE SP

NEMA ENCLOSURE

REMOTE CAMERA LOCATION

SOFTWARE (SERVER)

RECORDER W/ VMS

NETWORK VIDEO MANAGEMENT SYSTEM

VIDEO MANAGEMENT SYSTEM

MULTIMODE FIBER OPTIC PATCH PANEL

FIBER OPTIC PATCH PANEL

KEYBOARD-VIDEO-MOUSE

NETWORK ATTACHED STORAGE (IF APPLICABLE)

CLIENT

NETWORK VIDEO CABLE

POE CABLE

CONSOLE KVM

DATA MANAGEMENT

1 OF 1

3602

ES3602

METROLINK

SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
ONE GATEWAY PLAZA, 12TH FLOOR, L.A., CA. 90012

ENGINEERING STANDARDS

VIDEO SURVEILLANCE SYSTEM (VSS)

TYPICAL NETWORK LINE DIAGRAM

A. CARLOS
TRIANGLE INDICATES FIELD OF VIEW

CIRCLE INDICATES FIELD OF VIEW

FIXED CAMERA

PAN-TILT-ZOOM (PTZ) CAMERA

SEMICIRCLE INDICATES FIELD OF VIEW

CIRCLE INDICATES FIELD OF VIEW

180 DEGREE CAMERA

360 DEGREE CAMERA
NOTES:
1. THIS DRAWING IS FOR REFERENCE ONLY. CAMERA TYPE, EQUIPMENT TYPE, AND MOUNTING CONFIGURATION MAY VARY BY LOCATION. CABLING PATHWAY AND RACEWAY CONFIGURATION MAY VARY BY LOCATION.
2. CAMERA MOUNT, EQUIPMENT MOUNT AND MOUNTING SUPPORT HARDWARE AS REQUIRED BY MANUFACTURER.
3. ALL SUPPORTING SYSTEM CABLES SHALL BE CONCEALED IN CONDUITS FROM OUTDOOR ELEMENTS, IF APPLICABLE.
4. CABLING PATHWAY AND RACEWAY ELEMENTS NOT SHOWN UNLESS SHOWN OTHERWISE; CONDUIT SHALL BE FURNISHED AND INSTALLED AS A SYSTEM WITH ALL REQUIRED FITTINGS, BOXES, TERMINATIONS AND OTHER INSTALLATION ACCESSORIES; ALL IN ACCORDANCE WITH THE SCRRA ENGINEERING STANDARDS, MANUFACTURER'S INSTRUCTIONS AND CONTRACT DOCUMENTS.

ENGINEERING STANDARDS
VIDEO SURVEILLANCE SYSTEM (VSS) EQUIPMENT MOUNTING CONFIGURATIONS (TYPICAL)

SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
ONE GATEWAY PLAZA, 12TH FLOOR, L.A, CA 90012

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WITHOUT CONSULTING A REGISTERED PROFESSIONAL ENGINEER. ALL WARRANTIES
STANDARDS IS THE SOLE RESPONSIBILITY OF THE USER AND SHOULD NOT BE USED
SCRRA SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF
SCRRA ENGINEERING STANDARDS ARE INTENDED FOR SCRRA APPROVED USES ONLY.

UserName=> carlosa
Date Plotted: 10:15:39 AM
11/24/2015
Plot Driver=> S:\Plot Drivers\practice_pdf.plt
FileName=> S:\V8EngStds\New Stds - in progress\ES3604-02.dgn

Pole
Weatherproof Enclosure
Pole Mounted
Side View

Wall
Weatherproof Enclosure
Wall Mounted
Side View

Camera
Parapet Mounted
Side View

Camera
Wall Mounted
Exposed Conduit
Side View

Camera
Ceiling Mounted
Exposed Conduit
Side View

Camera
Ceiling Mounted
Flush Mounted
Side View

Camera
Pendant Mounted
Side View