

Downtown San Bernardino Passenger Rail
and
San Bernardino Transit Center
Contractors' Workshop

July 11, 2013

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San Bernardino Associated Governments

All information provided in this presentation is
subject to change at anytime.

Two Projects with Separate Bids and Contracts

- Downtown San Bernardino Passenger Rail Project (DSBPRP), Reference Upcoming IFB 14001
- San Bernardino Transit Center Project (SBTC), Reference Upcoming IFB 14002

Downtown San Bernardino Passenger Rail Project

General Overview

- One-mile Extension of Metrolink to San Bernardino Transit Center (SBTC)
- Double-track w/CTC
- Grade Crossings – Closure of 3rd Street, Partial Closure of I Street at Rialto Avenue, Reconfigure 2nd Street and G Street
- Two Stations with Total of Five Platforms
- Track Ownership and Operations
 - San Gabriel Sub – SANBAG Owned/Metrolink Operates including BNSF
 - Redlands Sub – SANBAG Owned/BNSF Operates
 - Shortway – BNSF Owned/Metrolink Operates
 - BNSF MT3 – BNSF Owned & Operates/Amtrak

Downtown San Bernardino Passenger Rail Project

General Overview (Continued)

- Santa Fe Depot is a Nationally Registered Historic Building
- All current over-night stored and maintained Metrolink trains around Depot will be moved and to the Eastern Maintenance Facility (EMF) prior to start of construction.
- Design is Complete
- Environmentally Cleared – Some Minor Mitigation Requirements, Mostly Construction Noise Reduction
- Right-of-Way Acquisition Near Complete
- Utility Relocations to Begin Near End of 2013. Should be complete prior to Contractor's commencement of field work.
- Engineer-of-Record – HDR Engineering
- Construction Manager – Parsons Brinckerhoff

Downtown San Bernardino Passenger Rail Project

General Overview (Continued)

- Two Buildings – Pedestrian Overpass at Depot and Metrolink Crew Building at the San Bernardino Transit Center (SBTC).
 - No City building permits for both. However, Contractor to obtain deferred approval from City for both building fire sprinklers.
 - Construction Manager will perform inspections.
- Extensive CCTV Security System (Performance Specification)
 - Conduit routing through Depot complex.
- 60' High Lighted Pylon at SBTC (Performance Specification)
- No Owner Provided Material
- At times there will be a Metrolink and BNSF Flagmen for the same area.

Downtown San Bernardino Passenger Rail Project

Train Operations

- 42 Metrolink Trains per Day Operate between San Bernardino (SB) and Los Angeles (LA)
- 8 Metrolink Trains per Day Operate between SB and Orange County on the BNSF “Shortway”
- 2 Amtrak Trains (Southwest Chief) on BNSF MT3
- Generally 2 daily BNSF trains operate over the flyover.
- Generally 1 or 2 weekly BNSF trains operate on the Redlands Sub.
- Redlands Sub will be out of service each week from Monday morning to Friday afternoon.
- 6 Phased Track Construction

Downtown San Bernardino Passenger Rail Project

Train Operations (Continued)

- 42 Metrolink Trains per Day Operate between San Bernardino (SB) and Los Angeles (LA)
- 8 Metrolink Trains per Day Operate between SB and Orange County on the BNSF “Shortway”
- 2 Amtrak Trains (Southwest Chief) on BNSF MT3

Initial Tentative Daily Train Count

- BNSF – 80 Freight Trains (Cajon and San Bernardino Subs)
- BNSF – 2 Freight Trains per week (Redlands Sub)
- Metrolink – 50 Passenger Trains (San Gabriel Sub)
- Amtrak – 2 Passenger Trains (BNSF Tracks)

Downtown San Bernardino Passenger Rail Project

General Work Conditions

- At all times, must accommodate and maintain Metrolink and Amtrak train schedules, service, and passenger access.
- Train schedules including BNSF may change from time to time. Contractor responsible for accommodating changed schedules.
- Maintain passenger and ADA access to all trains cars at all times for Metrolink trains, i.e. – normal platform operations. Access mostly from the west parking lot.
- Maintain passenger and ADA access to both daily Amtrak trains.
 - Amtrak Southwest Chief – EB daily at about 5:30 a.m., WB daily at about 8:00 p.m.
 - Amtrak platform is phased and will at times be approximately half a train length.
 - Access mostly to be maintain from Depot lobby.

Downtown San Bernardino Passenger Rail Project

General Work Conditions (Continued)

- No loud work in front of or behind Depot during SANBAG Board meetings, generally held on the first Wednesday of each; subject to change.
- Only one parking at a time can be closed for construction.
- Install temporary high intensity site lighting from roof of Depot for northerly Amtrak platform and easterly parking lot.
- Maintain adequate safety fencing between Depot building and construction activities on north and east side of Depot as well as all railroad tracks.
- Coordinate construction with San Bernardino Railroad Days.
 - Event Held in late-April
 - May Reduce the Event Activities or Cancel, depending on construction around Depot (To be determined).

Downtown San Bernardino Passenger Rail Project

Contractual Information

- Construction Contract with SANBAG
- No City of San Bernardino Funding
- Estimated Construction Cost - \$45 - \$50 Million
- Contract Time – 18 to 24 months (Subject to Change)
- Possible IFB Release – August 2013
- Award Contract – November 2013
- “A” Licensed Contractor
- Percentage of Prime’s Self Performance Level – 25% (subject to change at time of IFB release)
- DBE Goal – 8.5%
- State, Local, and Federal Funds
- Bond 1B CMU Labor Compliance Requirements

Downtown San Bernardino Passenger Rail Project

Contractual Information (Continued)

- Contractor to Obtain Right-of-Entry Permits from both Metrolink and BNSF, each with their own specific requirements.
- SANBAG will directly pay for flag protection from BNSF and Metrolink.
- Construction Manager will provide construction staking.
- RWP Training Held at Depot SANBAG

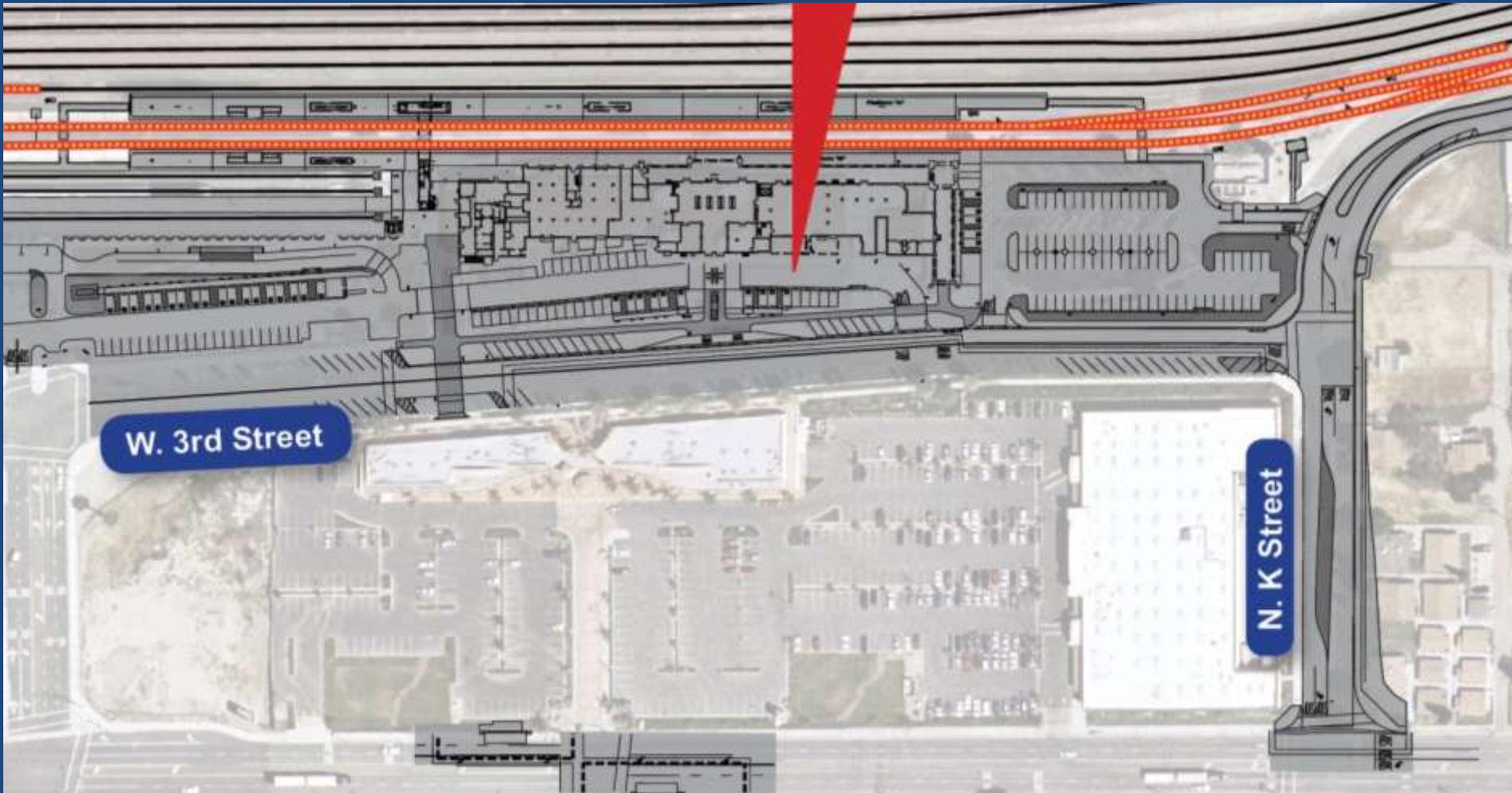
Downtown San Bernardino Passenger Rail Project Corridor



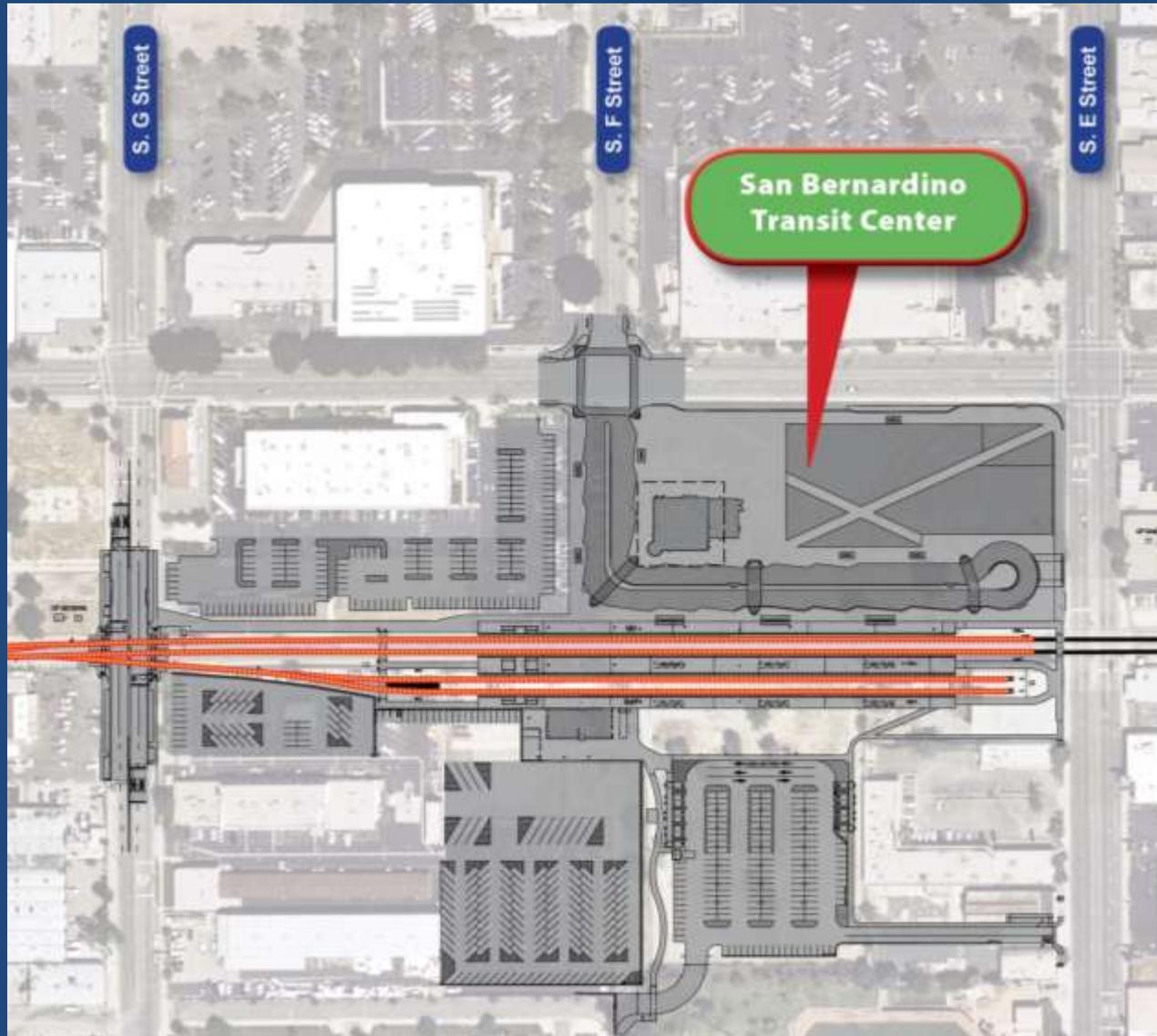
Downtown San Bernardino Passenger Rail Project Depot Area Work



Downtown San Bernardino Passenger Rail Project Depot Parking Lots



Downtown San Bernardino Passenger Rail Project at San Bernardino Transit Center



Downtown San Bernardino Passenger Rail Project Center Section – Grade Crossings



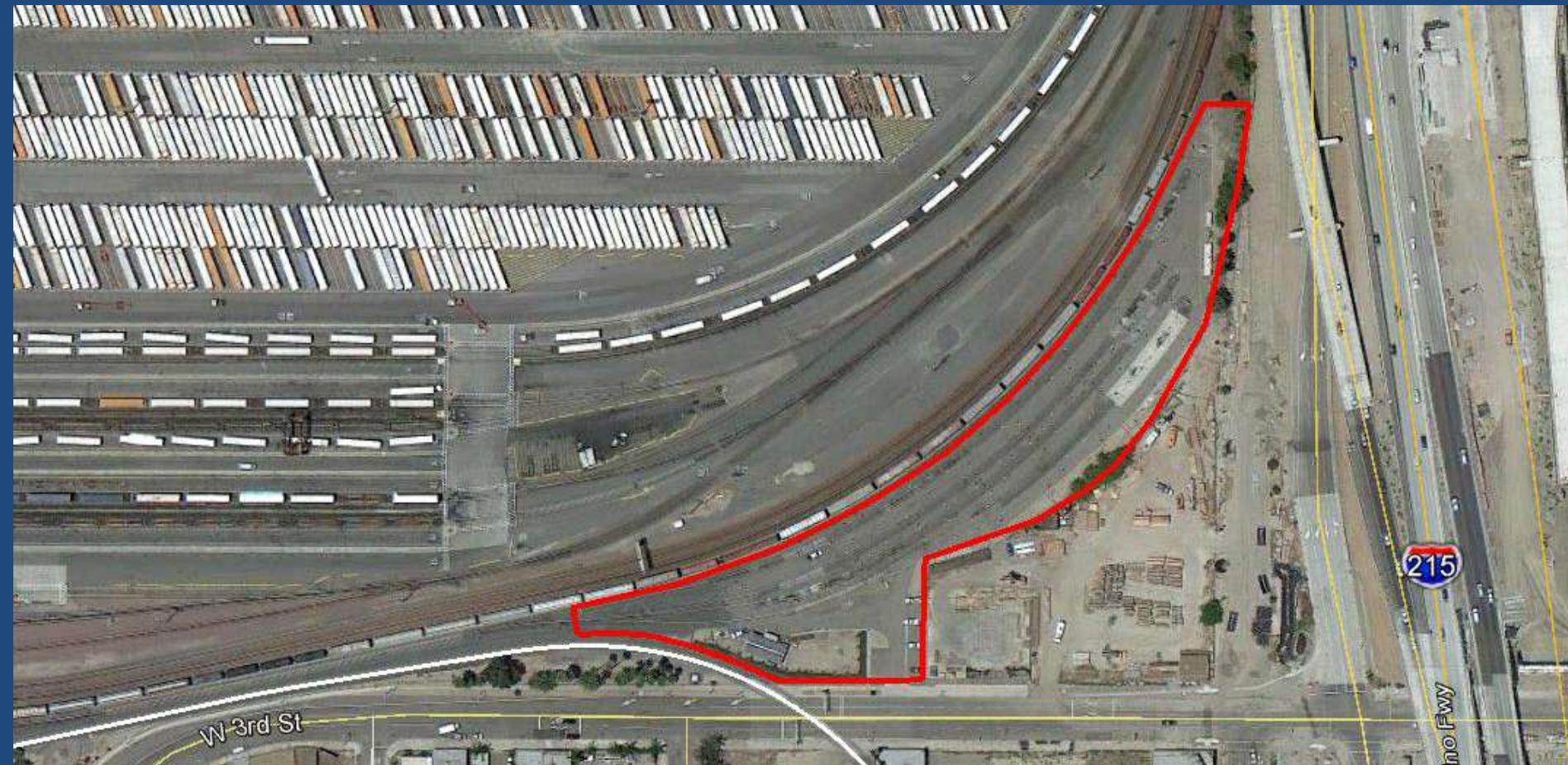
Downtown San Bernardino Passenger Rail Project

SANBAG Owned – Possible Lay-Down Area



Downtown San Bernardino Passenger Rail Project Inland Empire Maintenance Facility (IEMF)

SANBAG Owned IEMF Available for Contractor's Use



Downtown San Bernardino Passenger Rail Project

Private Property – Potential Lay-Down Area



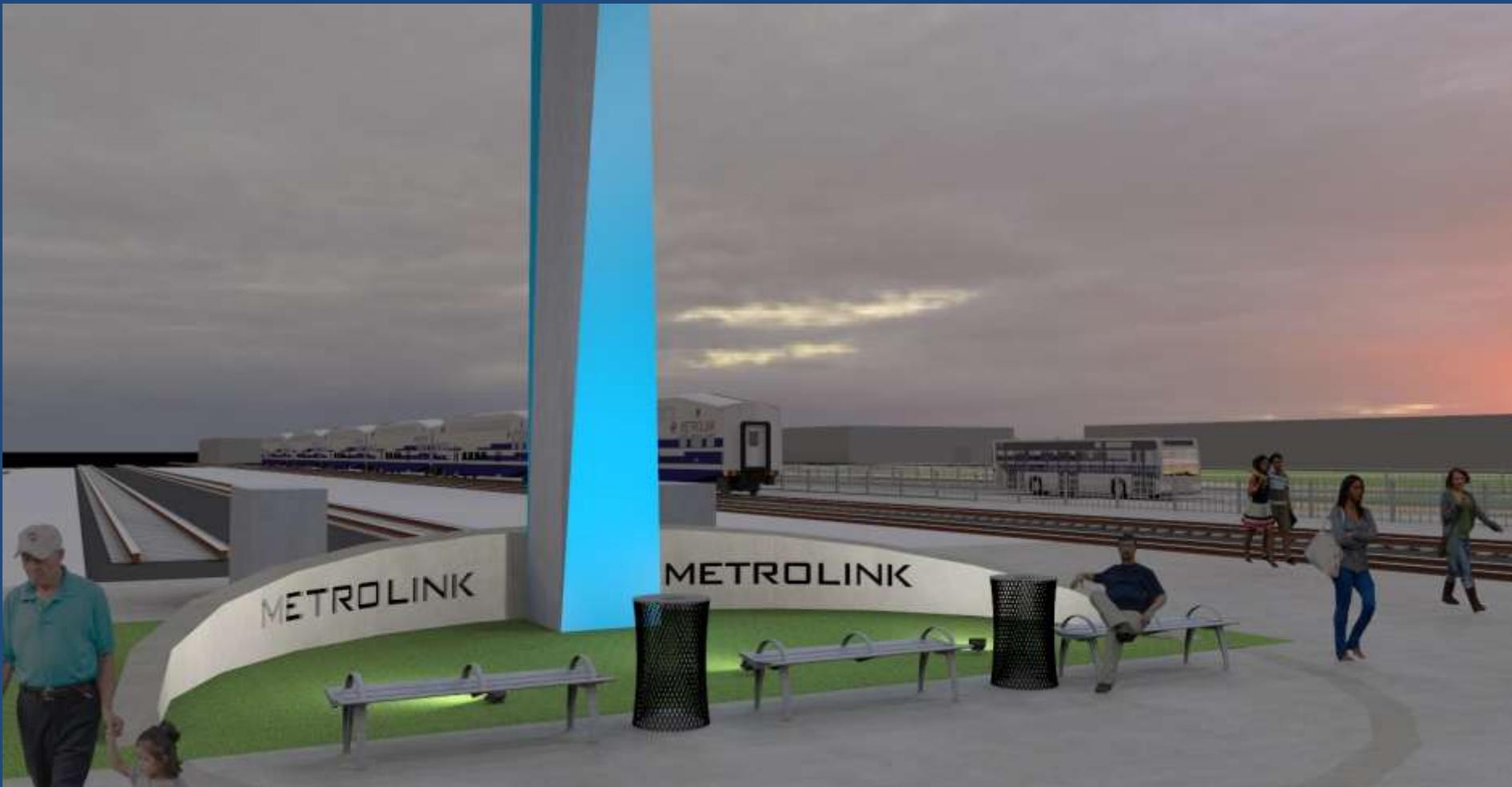
Downtown San Bernardino Passenger Rail Project at San Bernardino Transit Center

60' Tall Pylon – Performance Specification



Downtown San Bernardino Passenger Rail Project Sign at San Bernardino Transit Center

60' Tall Pylon – Performance Specification



Downtown San Bernardino Passenger Rail Project Platform Configuration



Downtown San Bernardino Passenger Rail Project Pedestrian Over-Pass



Downtown San Bernardino Passenger Rail Project Detention Basin

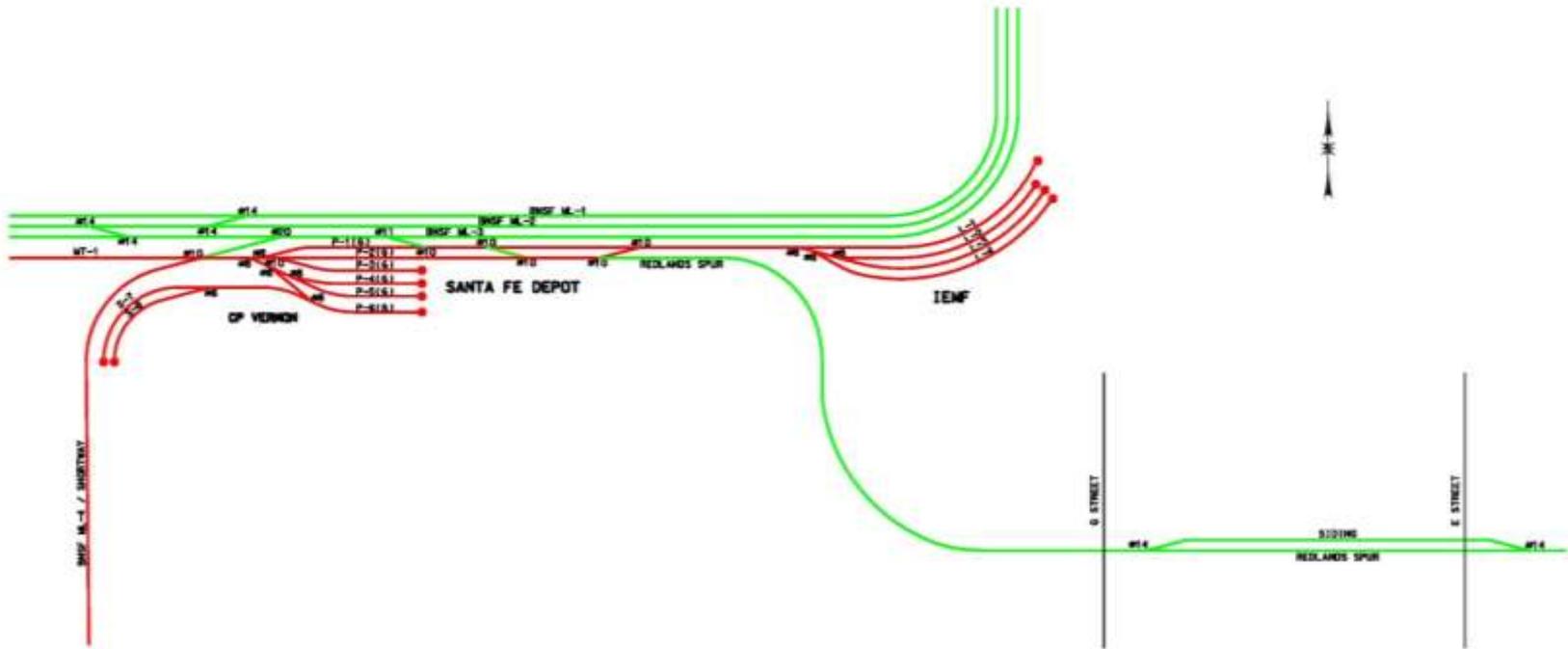


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San Bernardino
Transit Center

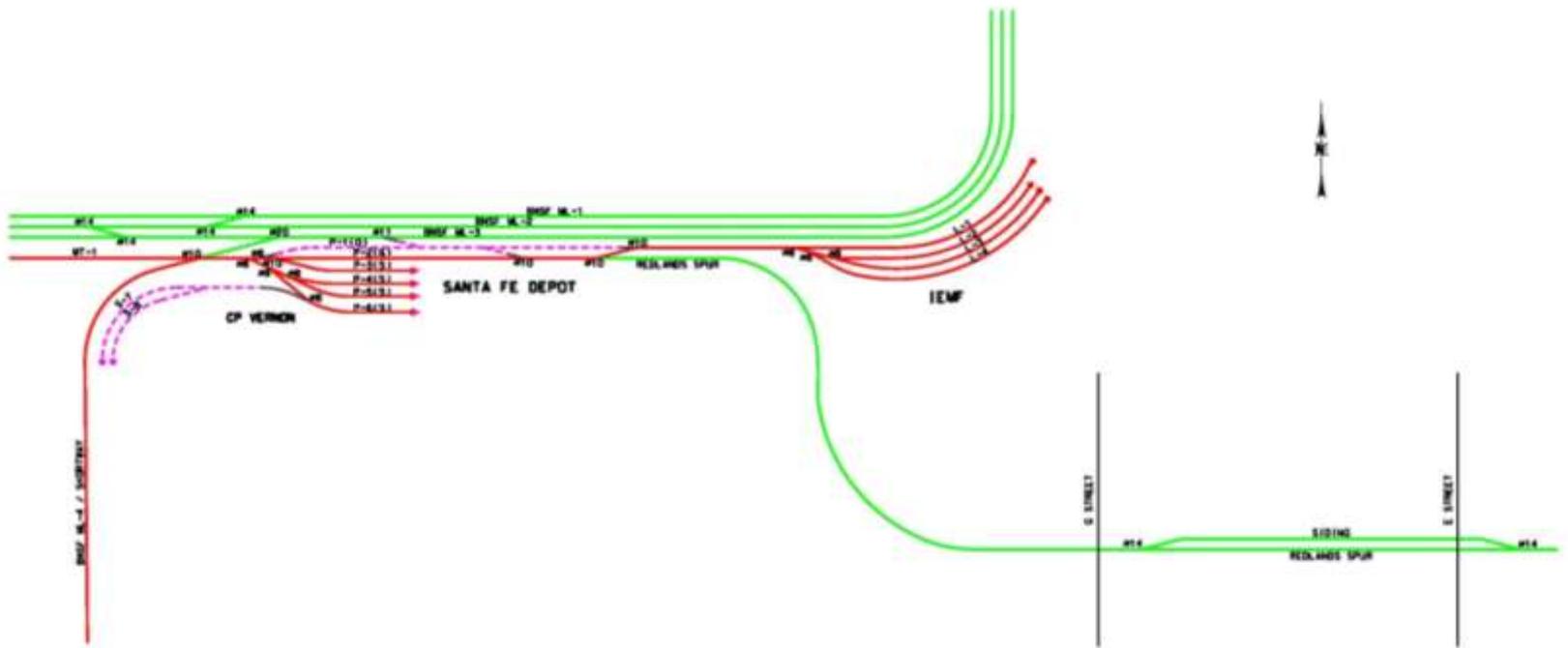
Detention Basin

Downtown San Bernardino Passenger Rail Project Track Construction – Existing Schematic



LEGEND	
SOBRA TRACK IN SERVICE	—
BNRP TRACK IN SERVICE	—
SANBAG TRACK IN SERVICE	—
TRACK OUT OF SERVICE	—
TRACK BEING REMOVED	—
TRACK UNDER CONSTRUCTION	—
STORAGE CAPACITY (PASSENGER CARS)	WS *
* TRAIN CONSIST = STORAGE CAPACITY + 1 LOCOMOTIVE	

Downtown San Bernardino Passenger Rail Project Track Construction – Phase 1



PHASE 1 SEQUENCE OF WORK:

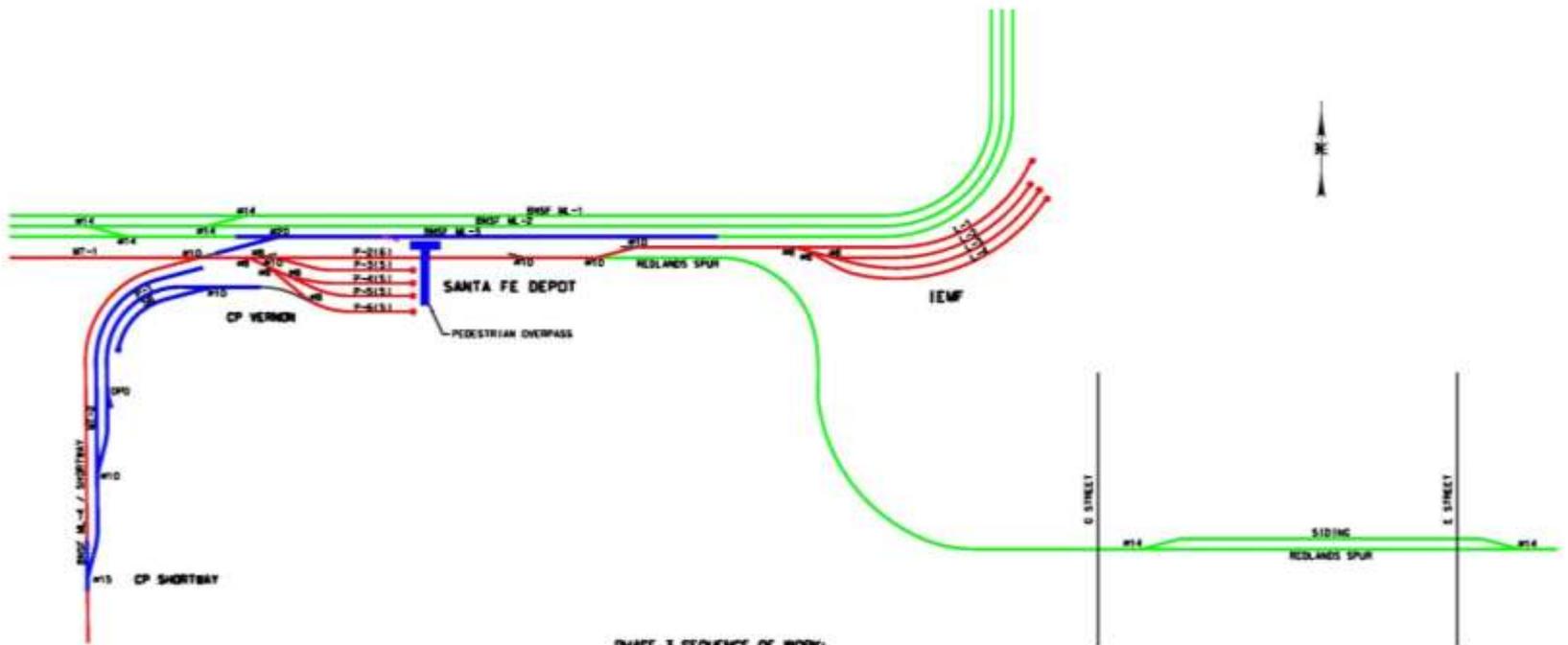
1. CLOSE AND REMOVE EXISTING SETBACK TRACKS EX S-7 AND EX S-8) AND LONG IEMF (END PORTION OF EX P-6).
2. REMOVE OR SHIP PILING.
3. RELOCATE STEEL DAMPERS (EX P-3 THROUGH EX P-6).

LEGEND	
SCORRA TRACK IN SERVICE	Green line
SNMP TRACK IN SERVICE	Red line
LANDING TRACK IN SERVICE	Blue line
TRACK OUT OF SERVICE	Black line
TRACK BEING REMOVED	Red dashed line
TRACK UNDER CONSTRUCTION	Blue dashed line
STORAGE CAPACITY (PASSENGER CAR)	SC
STORAGE CAPACITY (LOCOMOTIVE)	LC

PHASE DURATION: 1 MONTHS
REFER TO RR-8101 - RR-8103

	SAN BERNARDINO ASSOCIATED GOVERNMENTS 100 WEST 10TH STREET SUITE 100 SAN BERNARDINO, CA 92410-1010	DOWNTOWN SAN BERNARDINO PASSENGER RAIL PROJECT PHASE CONSTRUCTION SCHEMATIC PHASE 1	CONTRACT NO. DRAWING NO.
	CONTRACT NO. DRAWING NO.		SHEET NO. 2 OF 8 SCALE NTS

Downtown San Bernardino Passenger Rail Project Track Construction – Phase 3



PHASE 3 SEQUENCE OF WORK:

1. INSTALL PROPOSED NO 15 TURNOUT ALONG SHORTBAY (BY BNSF)
2. RE-PROFILE EXISTING SHORTBAY CROSSOVER AND BNSF W1-2 TO LIMITS SHOWN (BY BNSF); REMOVE NO 15 TURNOUT (BNSF). INSTALL SIGNALS AT CP SHORTBAY AND NEAR PLATFORM A (BNSF).
3. RESTRICT AMTRAK SERVICE TO EXISTING 400 FT. OF DEPOT PLATFORM A. INSTALL TEMPORARY PLATFORMS AND MAINTAIN ADA COMPLIANT RAILROADS.
4. CONSTRUCT WESTERLY 400 FT. OF DEPOT PLATFORM A.
5. CONSTRUCT TRACKS S-1-A PORTION OF W1-2 AND P-1.
6. PAVE ACCESS ROAD ADJACENT TO S-1.

LEGEND	
SCMRA TRACK IN SERVICE	—
BNSF TRACK IN SERVICE	—
SANBAG TRACK IN SERVICE	—
TRACK OUT OF SERVICE	—
TRACK BEING REMOVED	—
TRACK UNDER CONSTRUCTION	—
STORAGE CAPACITY (PASSENGER CARS)	60+
TRAIN CONSIST = STORAGE CAPACITY + 1 LOCOMOTIVE	

PHASE DURATION: 2 MONTHS
REFER TO RR-8301 - RR-8303

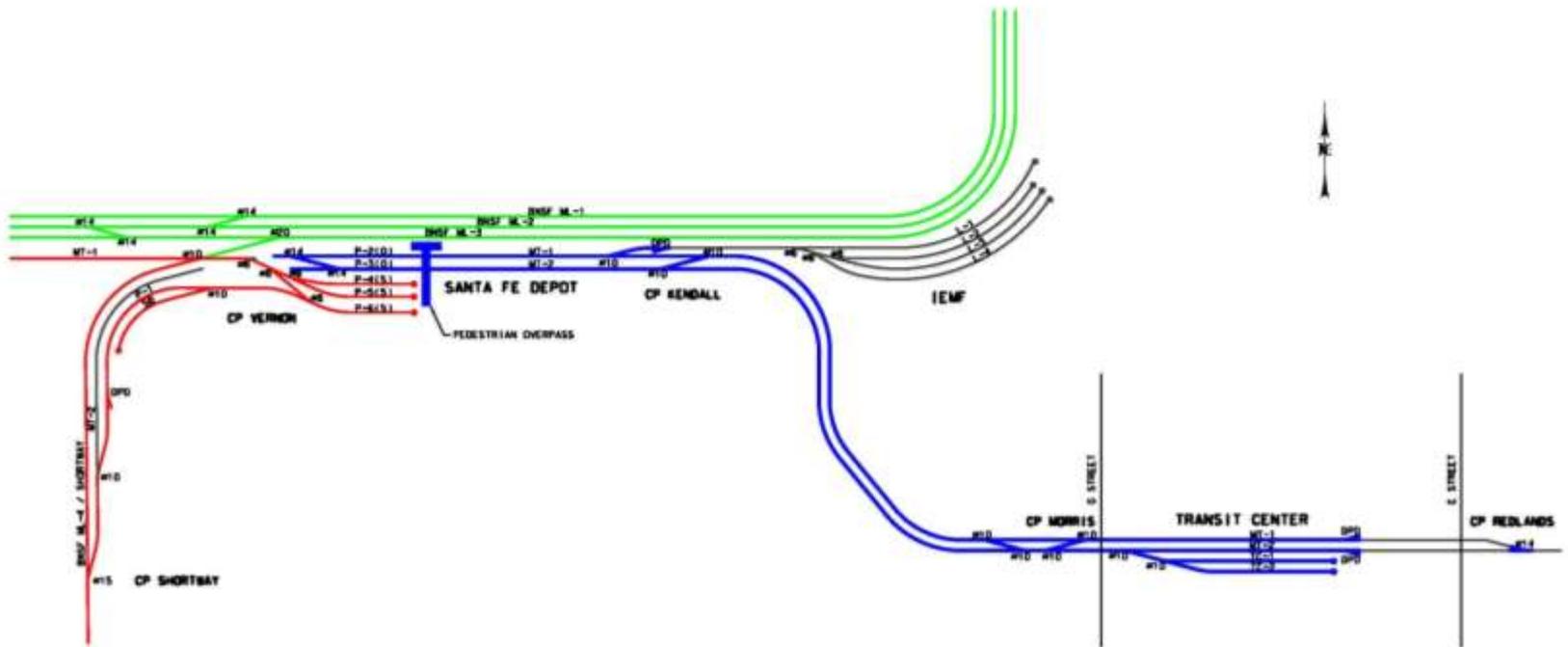
SANBAG SAN BERNARDINO ASSOCIATED GOVERNMENTS
HDR 2000 Newport Blvd
 Suite 1000
 San Bernardino, CA 92410-1000

**DOWNTOWN SAN BERNARDINO
PASSENGER RAIL PROJECT**
 PHASE CONSTRUCTION SCHEMATIC
 PHASE 3

DATE/ISSUE NO.	01/11/11
DRAWING NO.	CON1111
REVISION SHEET NO.	1
SCALE	4 OF 8

NTS

Downtown San Bernardino Passenger Rail Project Track Construction – Phase 4



PHASE 4 SEQUENCE OF WORK:

1. INSTALL AND MAINTAIN ADA COMPLIANT TEMPORARY WALKWAYS AND TRACK CROSSINGS.
2. RESTRICT AVIATION SERVICE TO WESTERLY 400 FT. OF NEW DEPOT PLATFORM A.
3. DEMOLISH EASTERLY HALF OF EXISTING DEPOT PLATFORM A.
4. REMOVE EX-WT / EX P-2 TRACK BETWEEN MT VERNON BRIDGE AND E STREET.
5. REMOVE EX-P3 TRACK.
6. INSTALL SURFACE AND SUBSURFACE IMPROVEMENTS BETWEEN MT VERNON BRIDGE AND E STREET.
7. CONSTRUCT EASTERLY HALF OF DEPOT PLATFORM A.
8. CONSTRUCT DEPOT PLATFORM B, AND TRANSIT CENTER PLATFORMS A, B AND C.
9. CONSTRUCT MT-1 AND MT-2 TRACKS BETWEEN MT VERNON BRIDGE AND E STREET.
10. CONSTRUCT TC-1, TC-2, AND IEM CONNECTION TRACKS.

LEGEND	
	SANBAG TRACK IN SERVICE
	BNSF TRACK IN SERVICE
	SANTA FE TRACK IN SERVICE
	TRACK OUT OF SERVICE
	TRACK BEING REMOVED
	TRACK UNDER CONSTRUCTION
	STORAGE CAPACITY (PASSENGER CAR) S
	TRAIN CAPACITY (PASSENGER CAR) T
	LEADING

PHASE DURATION: 5 MONTHS
REFER TO RR-8401 - RR-8409

SAN BERNARDINO ASSOCIATED GOVERNMENTS

HR CONSULTING ENGINEERS

2000 West Main Street
Suite 1000
Ontario, CA 91764-1000
Phone: 951.281.1111

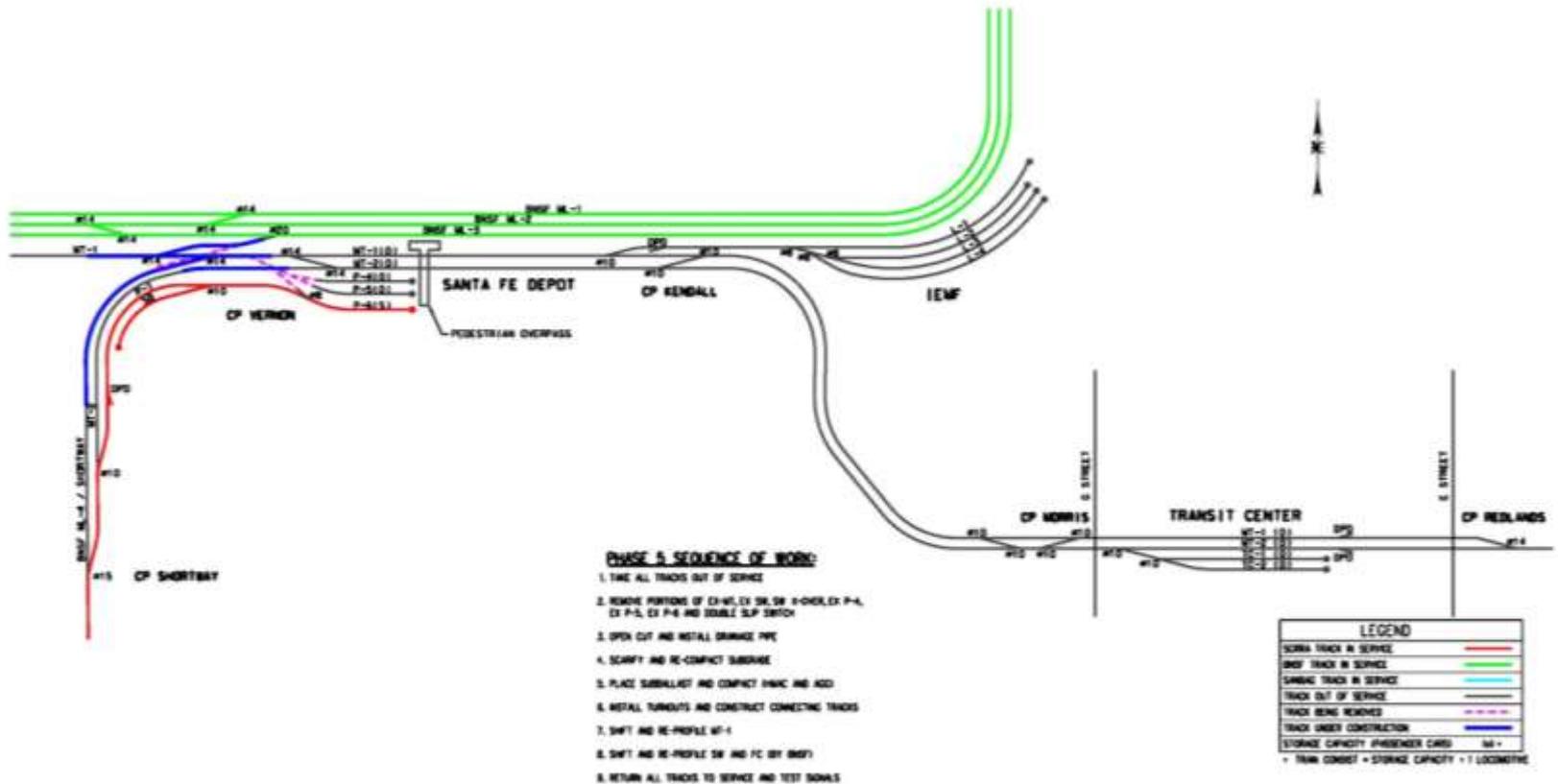
**DOWNTOWN SAN BERNARDINO
PASSENGER RAIL PROJECT**

PHASE CONSTRUCTION SCHEMATIC

PHASE 4

CONTRACT NO.	
DRAWING NO.	
REVISION	EXHIBIT
1	6 OF 8
SCALE	NTS

Downtown San Bernardino Passenger Rail Project Track Construction – Phase 5



PHASE DURATION: 3 WEEKS

1 WEEK TRACK CONSTRUCTION - (TRACKS CLOSED)
2 WEEKS SIGNAL TESTING - (FLAGMAN OPERATIONS)
REFER TO RR-8501

SANBAG SAN BERNARDINO ASSOCIATED GOVERNMENTS

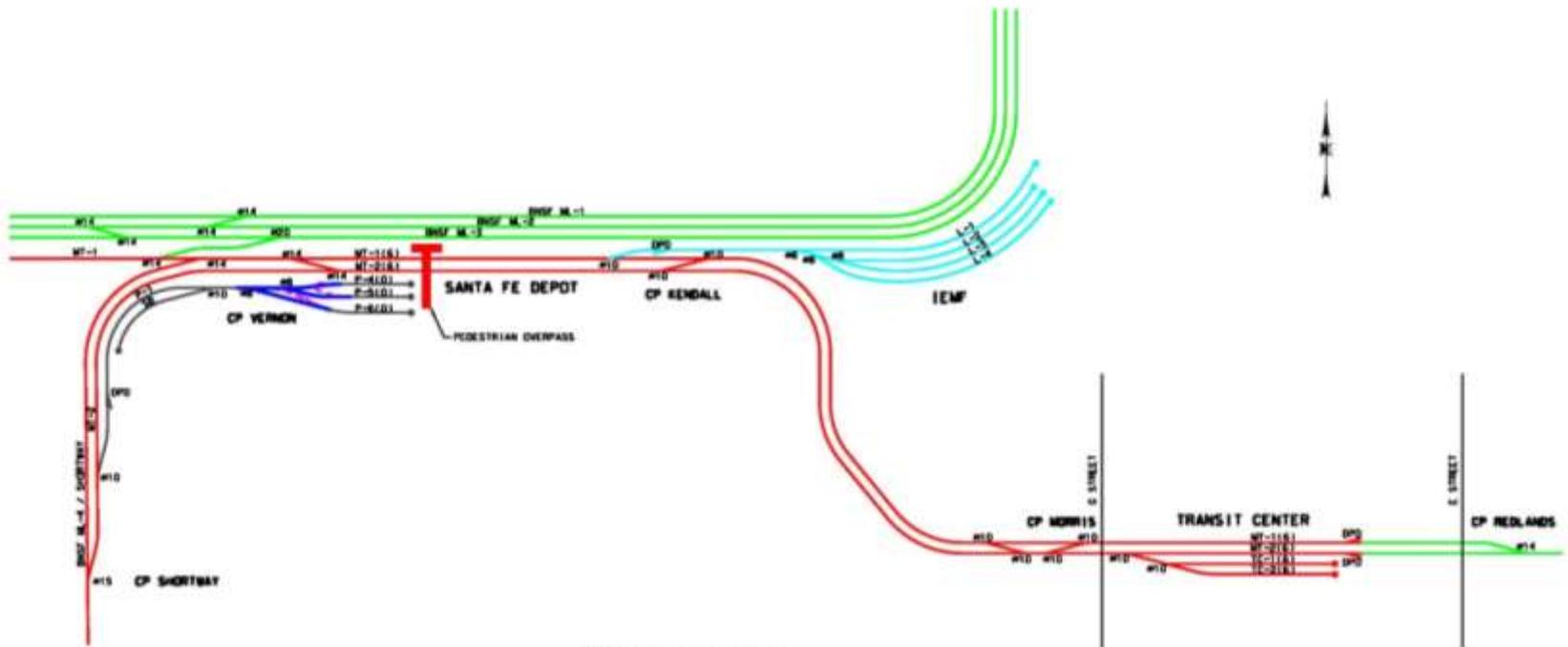
HR HERRING CONSULTANTS

2000 West Street
P.O. Box 100
San Bernardino, CA 92401-0100

**DOWNTOWN SAN BERNARDINO
PASSENGER RAIL PROJECT**
STAGE CONSTRUCTION SCHEMATIC
PHASE 5

CONTRACT NO.
DRAWING NO.
EXHIBIT
SECTION SHEET NO.
0 8 OF 8
SCALE
MIS

Downtown San Bernardino Passenger Rail Project Track Construction – Phase 6



PHASE 6 SEQUENCE OF WORK:

1. DEMOLISH WESTERN PORTION OF EXISTING DEPOT PLATFORM B
2. CONSTRUCT NEW CROSS WALKWAY AND WESTERN PORTION OF DEPOT PLATFORM B
3. REMOVE A PORTION OF EX P-4.
4. CONSTRUCT CONNECTING TRACK, SWFT, AND RE-PROFILE P-1, P-2 AND P-3
5. RE-TAMP P-1 AS NEEDED.
6. CONSTRUCT BISH ALONG SR

LEGEND	
SCENE TRACK IN SERVICE	—
SWFT TRACK IN SERVICE	—
SIGNAL TRACK IN SERVICE	—
TRACK OUT OF SERVICE	—
TRACK BEING REMOVED	—
TRACK UNDER CONSTRUCTION	—
STORAGE CAPACITY (PASSENGER CARS)	60*
* TRAIN COMBET = STORAGE CAPACITY + 1 LOCOMOTIVE	

PHASE DURATION: 2 MONTHS
REFER TO RR-8001 - RR-8003

	SAN BERNARDINO ASSOCIATED GOVERNMENTS
HDR	1000 West Street San Bernardino, CA 92410

DOWNTOWN SAN BERNARDINO PASSENGER RAIL PROJECT		CONTRACT NO.	
PHASE CONSTRUCTION SCHEMATIC		EXHIBIT	
PHASE 6		7 OF 8	
		SCALE	1" = 100'
		DATE	NTS

San Bernardino Transit Center (SBTC)

General Overview

- 22-Bay Bus Transit Center
- 7,500 s.f. Facility Building
- Photovoltaic System
- CCTV Security System (Performance Specification)
- Temporary Parking Lot – Fenced, Lighted, Paved, Security
- Building Demo
- Rework of Adjacent Property Owner Parking Lot
- Off-Site Improvements
 - Rialto Avenue – Half-width Improvements and Storm Drain
 - F Street – Pavement Grind and Overlay
 - Rialto Avenue and F Street – Traffic Signal
 - Rialto Avenue and E Street – Westerly Improvements and Signal Modifications

San Bernardino Transit Center (SBTC)

General Work Conditions

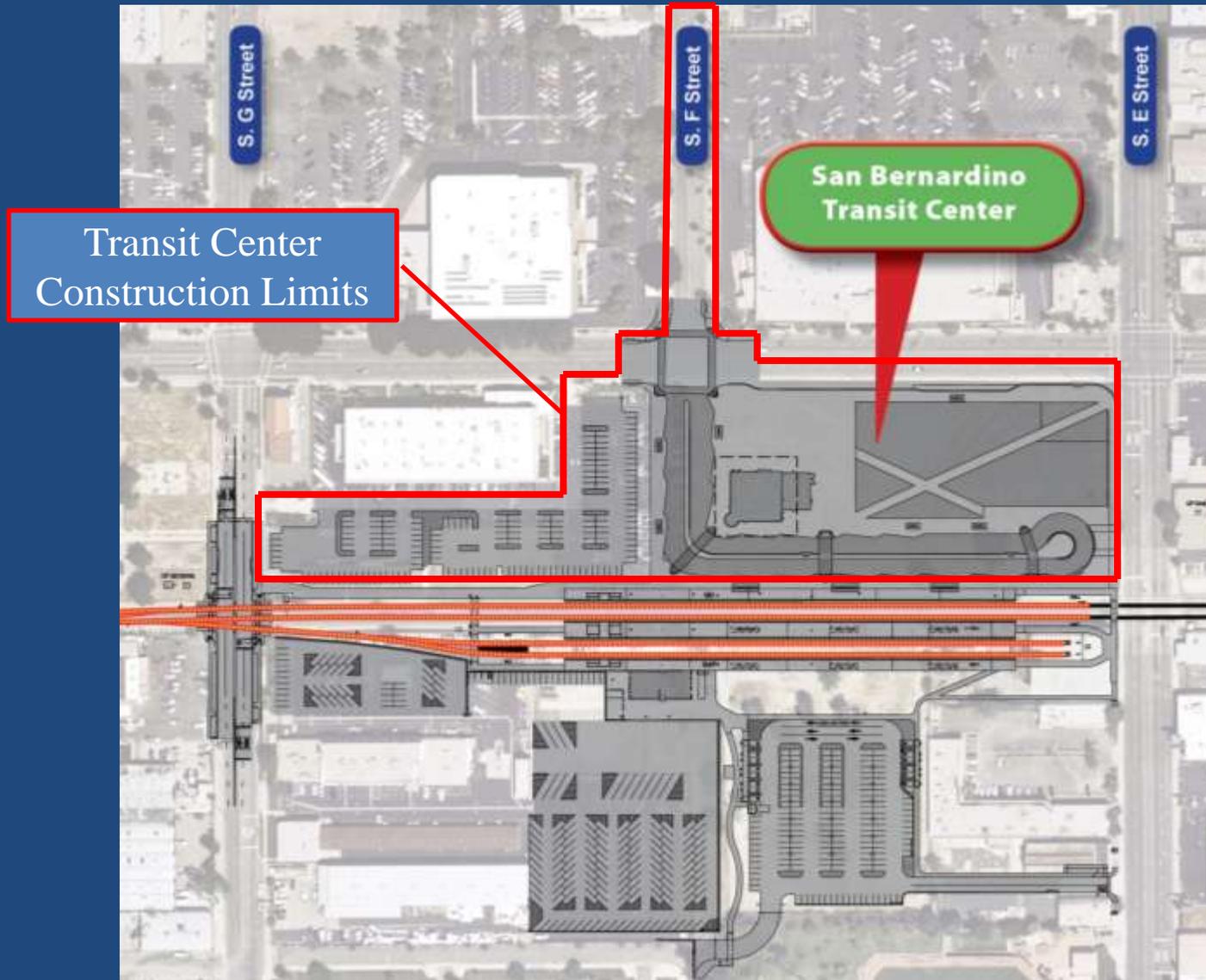
- Close Coordination with Downtown San Bernardino Passenger Rail Project Contractor – Shared Platforms Along Southerly Property Line and Storm Drain and Utility Connections.
- Westerly Adjacent Property Owner
 - Tenants Include Four US Government Agencies
 - Secured Parking Area – Immigration Detention
- Coordination with sbX Bus Rapid Transit (BRT) Contractor for Work on E Street. sbX Completion Tentative, April 30, 2014.

San Bernardino Transit Center

Contractual Information

- Construction Contract with SANBAG
- No City of San Bernardino Funding
- Estimated Construction Cost - \$15 Million
- Contract Time – 12 months (Subject to Change)
- Possible IFB Release – August or September 2013
- Award Contract – November 2013
- “A” or “B” Licensed Contractor
- Percentage of Prime’s Self Performance Level – 15% (subject to change at time of IFB release)
- DBE Goal – 8.6%
- State, Local, and Federal Funds
- Bond 1B CMU Labor Compliance Requirements

San Bernardino Transit Center



San Bernardino Transit Center



San Bernardino Transit Center



San Bernardino Transit Center



San Bernardino Transit Center



San Bernardino Transit Center



San Bernardino Transit Center



Invitation For Bid (IFB) Advertising

- SANBAG Website - www.sanbag.ca.gov, “Bids, RFPs, & RFQs”
- Local Newspaper – San Bernardino Sun/Press Enterprise
- Railway Age/RT&S
- McGraw-Hill/The Greensheet

The End

