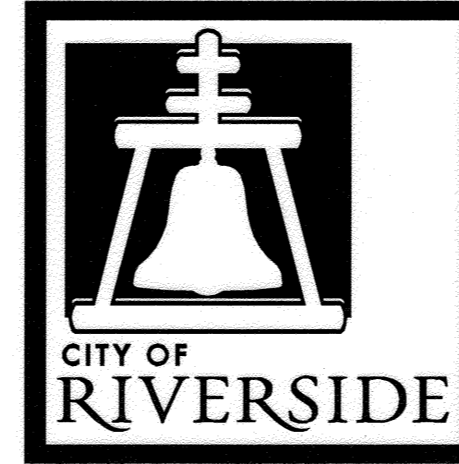


RIVERSIDE



CALIFORNIA

PUBLIC WORKS DEPARTMENT

IOWA AVENUE AT-GRADE RAIL CROSSING IMPROVEMENTS UNION PACIFIC RAILROAD - RIVERSIDE INDUSTRY LEAD TRACK MILEPOST 544.18 - CPUC CROSSING #001BJ-544.20 DOT CROSSING #747059F

GENERAL NOTES:

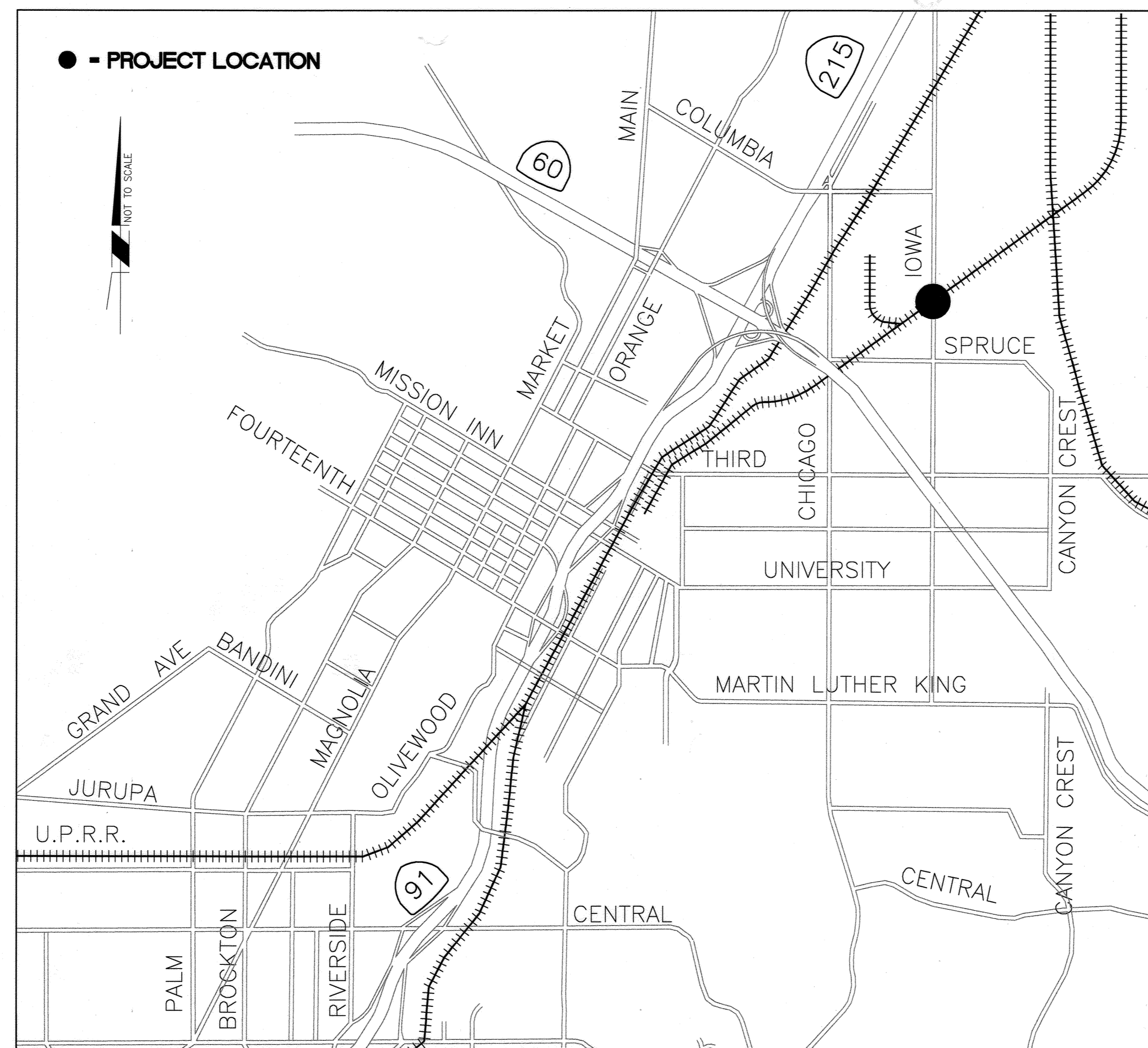
- PRIME CONTRACTOR BIDDING THIS PROJECT SHALL HAVE A CLASS "A" OR CLASS "C-12" LICENSE.
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE DEPARTMENT OF PUBLIC WORKS, STANDARD DRAWINGS AND THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", 2012 EDITION.
- THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO LOCATE AND PROTECT ALL UTILITIES WITHIN THE CONSTRUCTION WORK AREAS.
- ANY TEMPORARY TRAFFIC CONTROL STRIPING OBLITERATED AND/OR BADLY WORN DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR WITHIN ONE DAY AFTER NOTIFICATION FROM THE CITY INSPECTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR THE FINAL STRIPING AND PAVEMENT MARKING. STRIPING AND PAVING WORK SHALL BE COMPLETED PER PLANS, CITY STANDARDS AND SPECIAL PROVISIONS.
- SURVEY STAKING REQUESTS AND GRADE SHEETS WILL BE REQUIRED FOR THE CONSTRUCTION OF THE IMPROVEMENTS. CONTRACTOR SHALL ALLOW 4 WORKING DAYS AFTER REQUESTING SURVEY TO SCHEDULE SURVEY AND PROCESS GRADE SHEETS. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL FOR ALL REQUIRED CONSTRUCTION SURVEY WORK BY CITY PERSONNEL.

CONSTRUCTION LEGEND:

---	STREET CENTERLINE	---	STREET R/W	---	EXISTING IMPROVEMENT
CL	CENTERLINE	STA	STREET STATION	AC	ASPHALTIC CONCRETE
S/W	SIDEWALK	PCC	PORTLAND CEMENT CONCRETE	DWY	DRIVEWAY
C&G	CURB AND GUTTER	R/W	RIGHT OF WAY		

EXISTING TOPOGRAPHY:

- ⊙ SANITARY SEWER M.H.
 - ⊙ STORM DRAIN M.H.
 - ⊙ WATER GATE VALVE
 - ⊙ ELECTRIC M.H.
 - ⊙ TELEPHONE M.H.
 - ⊙ WATER METER
 - ⊙ FIRE HYDRANT
 - ⊙ IRRIGATION METER
 - ⊙ BLOW-OFF VALVE
 - ⊙ TRAFFIC SIGN
 - ⊙ POWER POLE
 - ⊙ GUY ANCHOR
 - ⊙ STREET LIGHT ON MAST ARM
- PALM TREE



LOCATION MAP

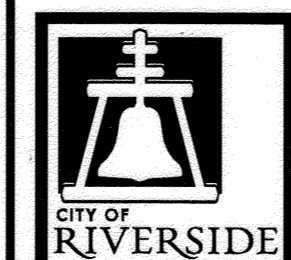
SHEET INDEX:

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	IOWA AVENUE - CROSSING IMPROVEMENTS
3	IOWA AVENUE - SIGNING AND STRIPING PLAN

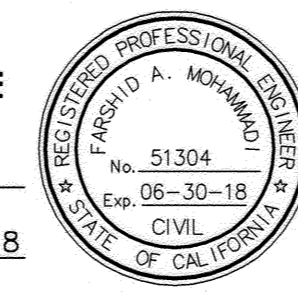
EXISTING UNDERGROUND UTILITIES:

STORM DRAIN	SD
SANITARY SEWER	SWR
WATER LINE	WTR
GAS LINE	G
FIBER OPTIC	FO
TELEPHONE	T
UNDERGROUND ELECTRIC	(UGE)

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ENGINEER IN RESPONSIBLE CHARGE
Farshid A. Mohammadi
R.C.E. No. 51304 EXPIRES: 06-30-18
DATE: 2/2/2017



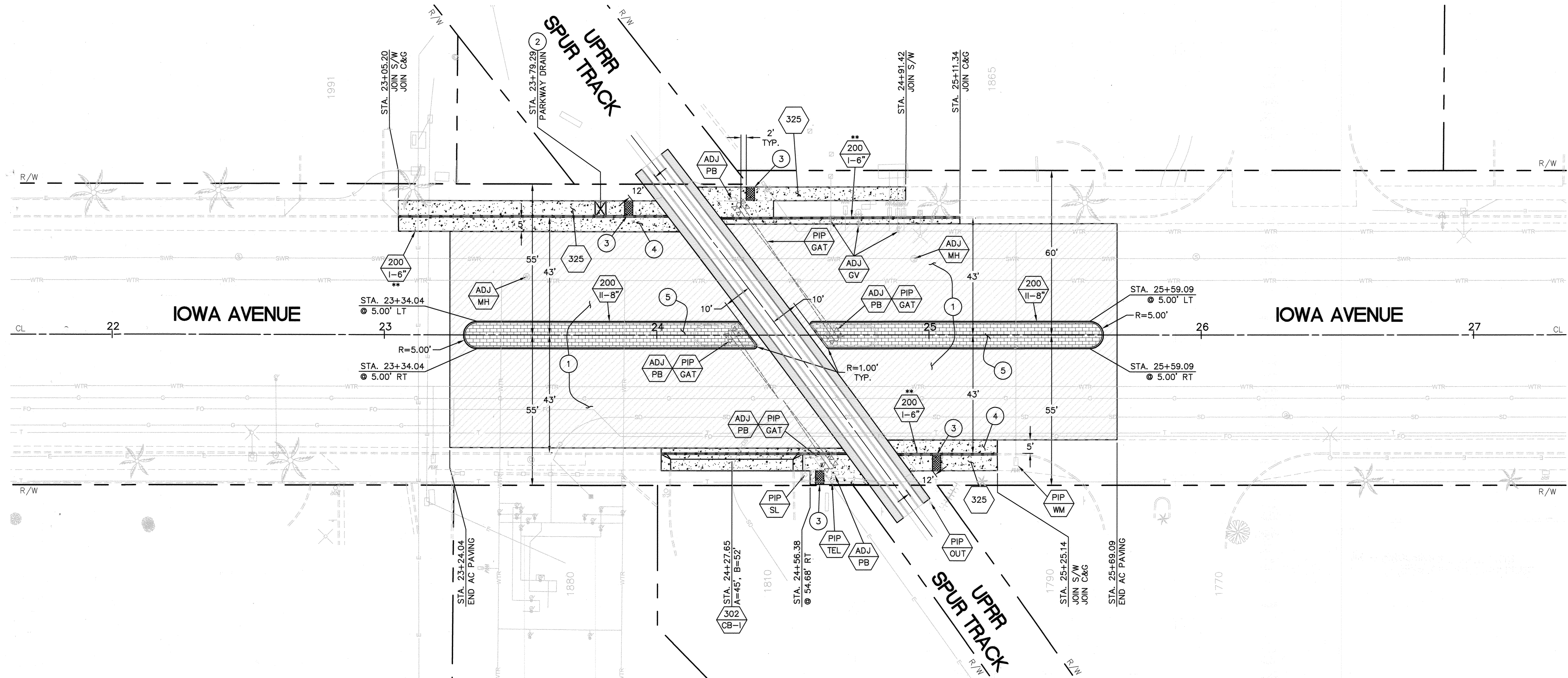
MARK	REVISIONS	APPR.	DATE

DESIGNED BY: DMC DRAWN BY: DMC CHECKED BY: FAM

CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS			
APPROVED BY	BY	DATE	APPROVED BY
ENGINEERING MANAGER	FM	2/2/17	CITY ENGINEER
STREETS DIVISION			
TRAFFIC DIVISION			
CONSTRUCTION ADMIN.			

TITLE SHEET	
IOWA AVENUE AT-GRADE RAIL CROSSING IMPROVEMENTS	
SCALE: NOT TO SCALE	

AS-BUILT 7-20-08
DESIGN W.O. #1603438
CONSTRUCTION W.O. #1719431
R-4399
SHEET 1 OF 3
FILE NAME: R4399-01.DWG

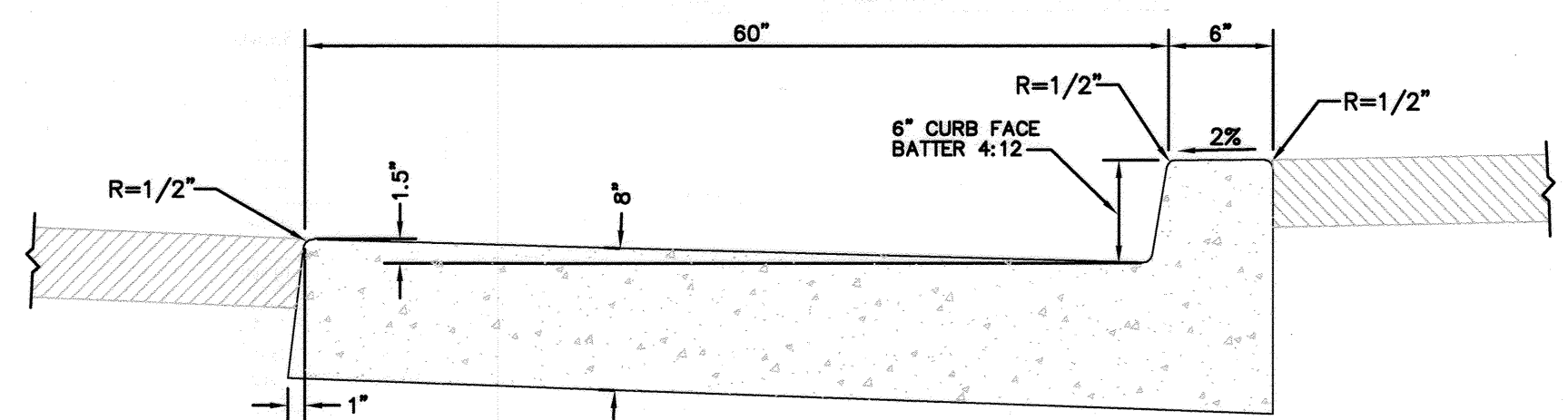


CONSTRUCTION NOTES:

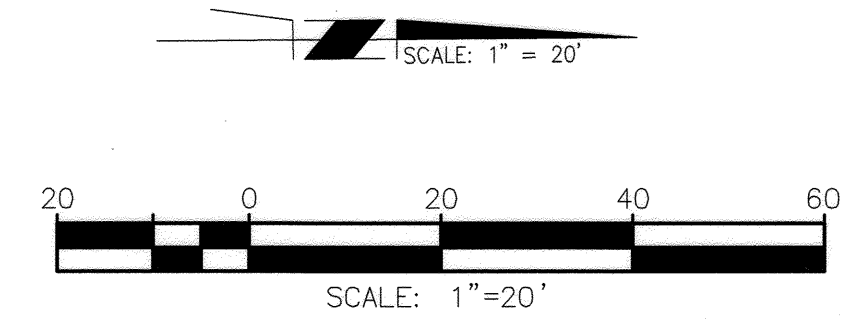
- REMOVE AND REPLACE IN KIND EXISTING FACILITY, NUMBERS ABOVE 100 IN A HEXAGON ON THE PLAN REFER TO THE RESPECTIVE STANDARD DRAWING AND SHALL BE CONSTRUCTED ACCORDINGLY. ANY NOTE SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC TYPE, ACTION, OR MODIFICATION TO BE CONSTRUCTED, WHERE NO MODIFICATION OR TYPE IS INDICATED, THE DIMENSIONS OF NEW FACILITY SHALL BE MODIFIED AS NECESSARY, EXCLUDING ADA REQUIREMENTS, TO MATCH EXISTING FACILITY REMOVED.
- INSTALL 3' X 6' (CURB SIDE S/W) OR 3' X 5' (PROPERTY LINE S/W) CAST-IN PLACE TACTILE PANEL INTO NEW CONCRETE SIDEWALK. PLACE 2' BEHIND CENTERLINE OF RAILROAD #9 WARNING SIGNAL DEVICE.
- CONSTRUCT NEW CONCRETE CURB AND GUTTER PER CITY STANDARD 200, TYPE I, MODIFIED GUTTER THICKNESS SHALL BE 8". SEE SECTION DETAIL.
- REMOVE THE EXISTING MEDIANS AND EXISTING AC PAVEMENT, BASE AND NATIVE MATERIAL TO DEPTH NECESSARY TO CONSTRUCT THE PROPOSED CONCRETE MEDIANS. THE NEW MEDIANS SHALL BE FILLED WITH UNCLASSIFIED FILL MATERIAL WITH 90% COMPACTION WITHIN 3.5" OF THE TOP OF NEW CURB. CONSTRUCT 3.5" THICK COLORED STAMPED CONCRETE. COLOR SHALL BE L.M. SCOFIELD COMPANY, QUARRY RED (C-32). PATTERN SHALL BE LOW PROFILE, "NEW BRICK-RUNNING BOND".
- PROTECT IN PLACE; (GAT) RAILROAD WARNING GATE; (PB) PULLBOX; (SL) STREET LIGHT; (TEL) TELEPHONE RISER; (OUT) OUTLET PIPE
- ADJUST EXISTING IMPROVEMENT TO GRADE. (MH) MANHOLE; (WM) WATER METER; (PB) PULLBOX; (GV) GATE VALVE
- COLD MILL, TYPE 3, EXISTING AC PAVEMENT, BASE AND NATIVE MATERIAL TO A MIN. DEPTH OF 12". CONSTRUCT 6" CRUSHED AGGREGATE BASE, CLASS II (CAB) WITH 4.5" DGAC. CAP WITH A VARIABLE THICKNESS OF 0.12" (MIN.) ASPHALT RUBBER HOT MIX-GAP GRADED (ARHM-GG) CAP. TO MATCH THE EXISTING AC PAVEMENT AND THE CONCRETE TRACK PANEL ELEVATIONS.
- INSTALL NEW PARKWAY DRAIN PER CITY STANDARD 410 (S=4'), MODIFIED TO REMOVE THE 1" LIP AT THE CURB OPENING AND TO REVERSE THE CROSS-SLOPE TO DRAIN AT 2% AWAY FROM THE STREET. THE SIDEWALK CROSS-SLOPE BEFORE THE PARKWAY DRAIN SHALL TRANSITION FROM THE STANDARD 2% SIDEWALK SLOPE TOWARD THE STREET TO THE MODIFIED PARKWAY SLOPE AND THEN TRANSITION AFTER TO MATCH THE EXISTING RAILROAD TRACK GRADE.

LEGEND:

- COLD MILL, TYPE CM3
- EXISTING 3' AC BUFFER BETWEEN TRACK PANELS AND NEW IMPROVEMENTS
- NEW PCC CONCRETE
- EXISTING RAILROAD EQUIPMENT TO BE PROTECTED IN PLACE
- PROPOSED CAST-IN PLACE TACTILE PANEL



****NOTE:**
THE CURB SHALL BE FULL HEIGHT UP TO 15' FROM THE CENTERLINE OF NEAREST TRACK. THE CURB SHALL TRANSITION FROM FULL HEIGHT TO ZERO HEIGHT WITHIN THE NEXT 5' AND SHALL HAVE ZERO HEIGHT AT 10' FROM CENTERLINE OF NEAREST TRACK.

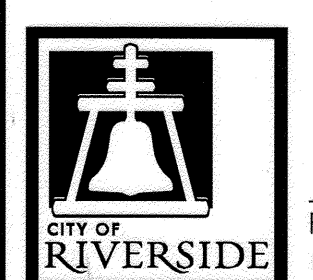


CITY STANDARD 200 (MODIFIED)

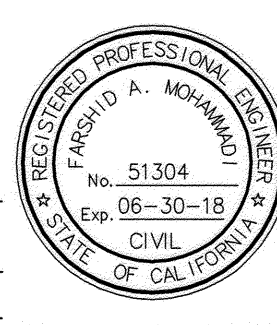
NOT TO SCALE

CROSSING ID:
MILEPOST # 544.18
USDOT # 747059F
CPUC # 001BJ-544.20

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ENGINEER IN RESPONSIBLE CHARGE
Farshid A. Mohammadi
R.C.E. No. 51304 EXPIRES: 06-30-18
DATE: 2/2/17



MARK	REVISIONS	APPR.	DATE

DESIGNED BY: DMC DRAWN BY: DMC CHECKED BY: FAM

CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE	APPROVED BY
ENGINEERING MANAGER	E.M.	2/2/17	CITY ENGINEER
STREETS DIVISION			
TRAFFIC DIVISION			
CONSTRUCTION ADMIN.			

DATE: 2/6/17

STREET IMPROVEMENTS

IOWA AVENUE AT-GRADE RAIL CROSSING IMPROVEMENTS

SCALE: 1" = 20'

DESIGN W.O. #1603438
CONSTRUCTION W.O. #1719431

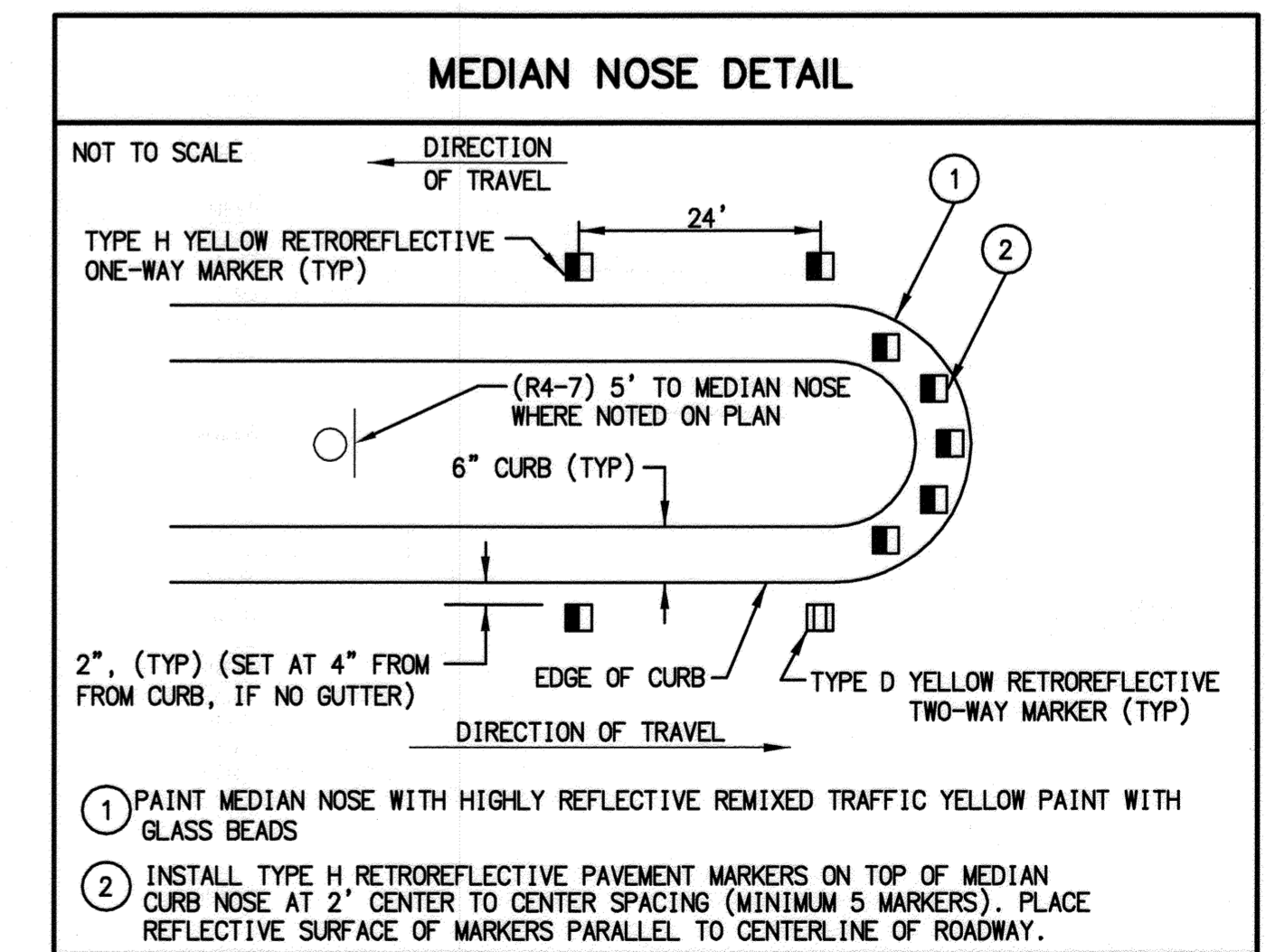
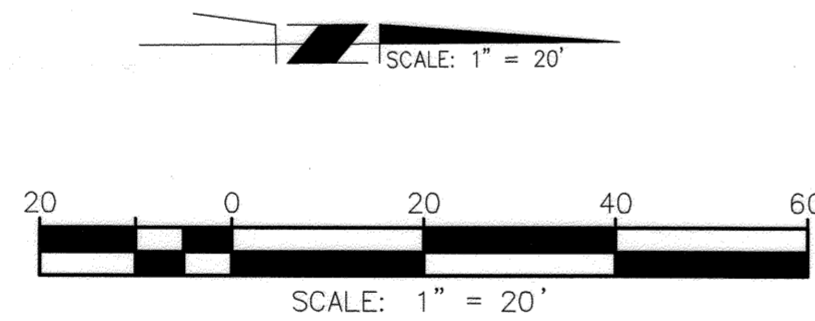
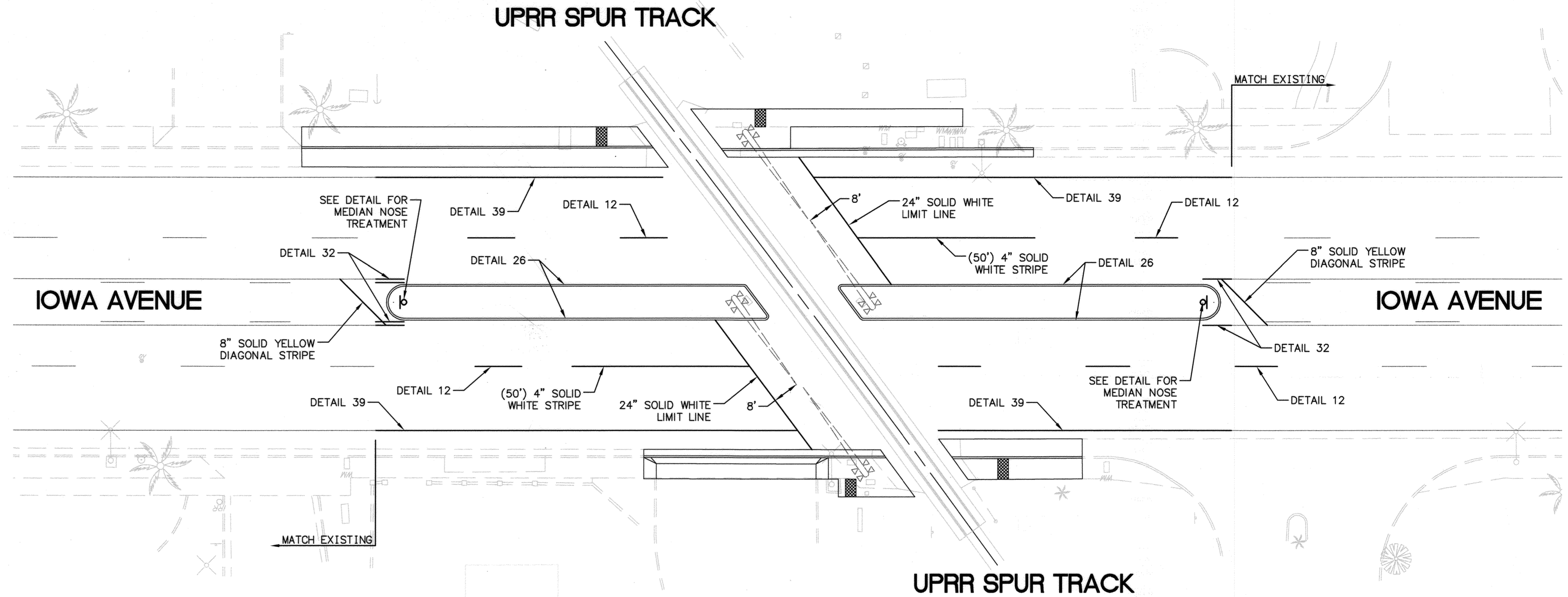
R-4399

SHEET 2 OF 3

FILE NAME: R4399-02.DWG

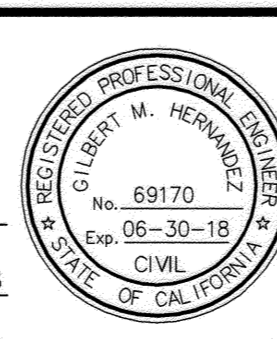
SIGNING AND STRIPING GENERAL NOTES:

- SIGNING AND STRIPING INSTALLATIONS SHALL CONFORM TO THE 2014 CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS AND SPECIFICATIONS DATED 2010, AND ALL ADDENDUMS THERETO, AND THE CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT STANDARD DRAWINGS, CURRENT EDITION.
- ALL STRIPING, MARKINGS, AND LEGENDS SHALL BE REFLECTORIZED THERMOPLASTIC UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE AND INSTALL RAISED PAVEMENT MARKERS FOR ALL STRIPING. STRIPING, MARKINGS AND LEGENDS SHALL CONFORM TO THE LATEST CALTRANS STANDARD PLANS A20A THRU A20D AND A24A THRU A24E.
- PRIOR TO FINAL ACCEPTANCE OF STREET IMPROVEMENTS, ALL PAVEMENT STRIPING AND STENCILING WITHIN THE PERIMETER OF THE CONSTRUCTION AREA SHALL BE RESTORED TO LIKE NEW CONDITION, IN A MANNER MEETING THE APPROVAL OF THE CITY OF RIVERSIDE.
- THE CONTRACTOR SHALL RE-STRIP EXISTING STRIPING AND CURB MARKINGS OBLITERATED BY NEW CONSTRUCTION, WHETHER OR NOT SHOWN ON THE PLANS FOR REPLACEMENT, AT NO COST TO THE CITY.
- AT LOCATIONS WHERE EXISTING PAINTED CURB IS TO BE RECONSTRUCTED, THE CONTRACTOR SHALL PAINT THE NEW CURB AS SHOWN ON THE PLANS WITHIN 10 WORKING DAYS OF CURB CONSTRUCTION OR AS DIRECTED BY ENGINEER. THE PAINT SHALL BE WATER-BASED WITH 2-YEAR GUARANTEE AGAINST COLOR FADING. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE CITY WRITTEN PROOF OF THE MANUFACTURER'S 2-YEAR GUARANTEE.
- ALL NEW STRIPING SHALL BE "CAT TRACKED" AND APPROVED BY THE ENGINEER PRIOR TO FINAL INSTALLATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AFTER COMPLETING LAYOUT AND AT LEAST 3 WORKING DAYS BEFORE COMMENCING INSTALLATION OF STRIPING, MARKINGS AND MARKERS.
- TRAFFIC SIGN FACE SHALL BE 3M DIAMOND GRADE DG3 REFLECTIVE SHEETING (ASTM XI) OR APPROVED EQUAL WITH PROTECTIVE GRAFFITI OVERLAY FILM OR AS OTHERWISE NOTED. ALL WARNING SIGNS SHALL HAVE A FLUORESCENT YELLOW BACKGROUND AND SCHOOL SIGNS NOTED SHALL HAVE A FLUORESCENT YELLOW-GREEN BACKGROUND.
- SIGNS SHALL BE STANDARD SIZE UNLESS NOTED OTHERWISE. PRIOR TO INSTALLATION, NEW SIGNS SHALL BE APPROVED BY THE CITY OF RIVERSIDE. EXACT LOCATIONS OF SIGNS SHALL BE DETERMINED BY THE CITY ENGINEER.
- ALL EXISTING SIGNS AND POSTS TO BE REMOVED SHALL BE DELIVERED TO THE CITY OF RIVERSIDE SIGN DEPARTMENT.
- STRIPING SHALL BE APPLIED WITHIN 48 HOURS OF SURFACE COURSE REPLACEMENT ON STREETS OPEN TO THE PUBLIC. IN NO CASE SHALL A NEWLY PAVED STREET OPEN TO THE PUBLIC BE LEFT UNSTRIPED OVER A WEEKEND OR HOLIDAY.
- CONTRACTOR SHALL INSTALL NEW SIGN(S) AND/OR POST(S) PER CITY OF RIVERSIDE STANDARD DRAWING No. 664, SEE SPECIFICATIONS.
- CONTRACTOR SHALL INSTALL NEW STREET NAME SIGNS AND POST PER CITY OF RIVERSIDE STANDARD DRAWING No. 662, SEE SPECIFICATIONS.
- ALL CONFLICTING STRIPING, PAVEMENT MARKINGS, LEGENDS, AND RAISED PAVEMENT MARKERS SHALL BE REMOVED EVEN IF NOT SHOWN ON PLANS. REMOVALS OF PAINTED STRIPING, PAVEMENT MARKINGS AND LEGENDS SHALL BE DONE BY WET SANDBLASTING. REMOVALS OF THERMOPLASTIC STRIPING, PAVEMENT MARKINGS AND LEGENDS SHALL BE REMOVED BY WET SANDBLASTING, GRINDING OR OTHER APPROVED METHOD AND SHALL NOT DAMAGE THE PAVEMENT. "BLACK OUT" OF EXISTING DELINEATION IS NOT PERMITTED. ALL DAMAGED PAVEMENT DUE TO REMOVALS SHALL BE REPAIRED AS NECESSARY TO MAINTAIN A SMOOTH AND UNIFORM SURFACE OR AS DIRECTED BY THE ENGINEER. ALL STRIPING REMOVALS AND LEGENDS SHALL BE "FOG SEALED".



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ENGINEER IN RESPONSIBLE CHARGE
GILBERT M. HERNANDEZ
R.C.E. No. 69170 EXPIRES 06-30-18
DATE: 2-1-17



MARK	REVISIONS	APPR.	DATE

DESIGNED BY: DMC DRAWN BY: DMC CHECKED BY: GMH

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE	APPROVED BY
ENGINEERING MANAGER	E.M.	2/2/17	CITY ENGINEER
STREETS DIVISION	S.H.	2-1-17	
CONSTRUCTION ADMIN.	DC	2/2/17	

DATE: 2/6/17

SIGNING AND STRIPING PLAN

IOWA AVENUE AT-GRADE RAIL CROSSING IMPROVEMENTS

SCALE: 1" = 20'

DESIGN W.O. #1803438
CONSTRUCTION W.O. #1719431

R-4399

SHEET 3 OF 3

FILE NAME: R4399-03.DWG