RIVERSIDE CALIFORNIA

CITY OF RIVERSIDE — INCORPORATED 1883

PUBLIC WORKS DEPARTMENT

KANE STREET AT FREEWAY 91 & WEST BOUND ON-RAMP RECONSTRUCTION

CONSTRUCTION LEGEND

CENTER LINE — ℄ —
RIGHT-OF-WAY LINE — R/W —
SUBDIVISION LOT LINE — ⅊ —
TOP OF SLOPE
TOE OF SLOPE
DIRECTION OF FLOW

C S1 — CONST. STRUC. SEC. OF 0.30' DGAC (DENSE GRADED AC) OVER 0.50' CAB.

C S2 — CONST. STRUC. SEC. OF 0.50' DGAC OVER 1.30' CAB.

G1 — GRIND EX A.C. 0.17' BELOW GUTTER LIP OR OUTER EDGE, 'DAY-LIGHTING' IN 5' (TYPE I GRINDING) EXCEPT AS SHOWN OTHERWISE ON PLAN AND DESCRIBED IN SPECIAL PROVISIONS.

OL — 0.17' MIN. DGAC OVERLAY OVER ENGINEERING FABRIC (EF).

R S1 — REMOVE & REPLACE (R&R) EX. STRUC. SEC. WITH 0.30' DGAC OVER 0.50' CAB.

R S2 — R&R EX. STRUC. SEC. WITH 0.50' DGAC OVER 1.30' CAB.

CONC SIDEWALK

C S4 — CONST. 2" THICK DGAC WALKWAY.

STAMPED CONCRETE, 3½" THICK

R II — REMOVE TREE. CLASS IS SHOWN ON PLAN.
CLASS I: 6" TO 18" DIA.
CLASS II: OVER 18" TO 36" DIA.
CLASS III: OVER 36" DIA.

OL — VARIABLE THICKNESS DGAC OVERLAY.

T I — TRANSPLANT TREE. CLASS IS SHOWN ON PLAN
CLASS I: 6" TO 18" DIA.
CLASS II: OVER 18" TO 36" DIA.

SPECIFIC CONSTRUCTION NOTES

NUMBERS ABOVE 100 IN A HEXAGON ON THE PLAN REFER TO THE RESPECTIVE STANDARD DRAWING AND SHALL BE CONSTRUCTED ACCORDINGLY, UNLESS MODIFICATIONS ARE NOTED ON THE PLAN OR COVER SHEET BELOW. ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.

F10 A2-5, N8-A A1-8, N11-6, N8-A B1, N8-A A1-8, N8-B A2-5, N8-B C, N8-A A — STATE OF CALIFORNIA BUSINESS & TRANSPORTATION AGENCY DEPARTMENT OF TRANSPORTATION STANDARD PLANS DATED JANUARY 1988.

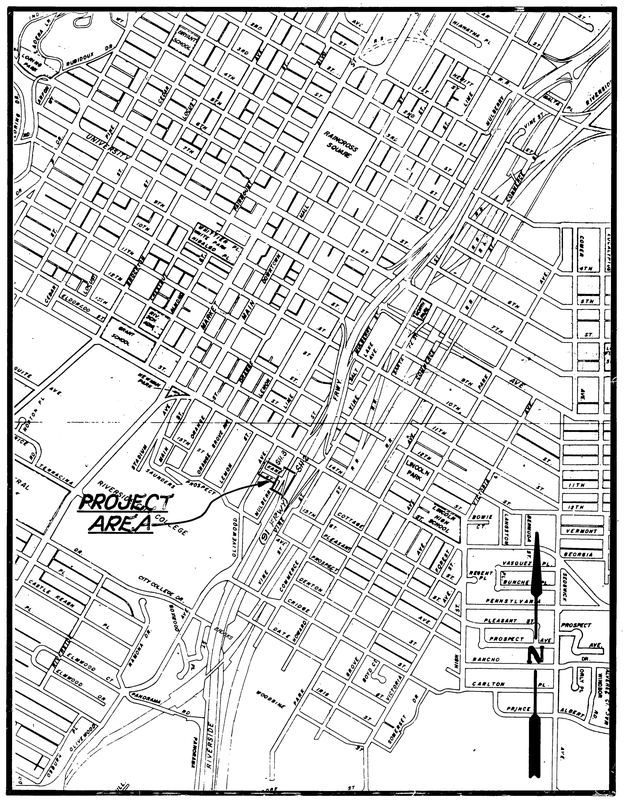
B / 3 — DETAIL / SHEET

W — TO BE RELOCATED BY P.U.W. DIVISION.

PIP — PROTECT IN PLACE.

GENERAL CONSTRUCTION NOTES

1. EXISTING UTILITIES SHOWN ON THIS PLAN ARE PLOTTED FROM UTILITY RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO LOCATE & PROTECT ALL UTILITIES WHETHER OR NOT SHOWN ON THIS PLAN. IF THE COVER OF A UTILITY IS KNOWN, IT IS SHOWN IN THE PROFILE. UTILITIES SHOWN IN THE PROFILE AS —⌒—⌒— INDICATES THAT THE COVER IS UNKNOWN, BUT THE UTILITY IS NOT EXPECTED TO CONFLICT WITH THE PROPOSED IMPROVEMENTS.
2. ALL ELEVATIONS SHOWN ON THE PLAN SHALL BE STAKED IN THE FIELD.
3. RIGHTS OF ENTRY HAVE BEEN OBTAINED FOR WORK SHOWN OUTSIDE OF CITY RIGHT OF WAY.
4. CONFLICTING UTILITIES SHOWN WITHIN CONSTRUCTION AREA WILL BE RELOCATED PRIOR TO CONSTRUCTION.
5. CURB & GUTTER SHALL BE STAKED WITH 3' OFFSETS AT 12.5' INTERVALS AND TWO ROWS OF #3 REBAR SHALL BE PLACED IN GUTTER WHERE GRADE IS LESS THAN 0.40%. PLACE ¾" DOWEL PINS AT ALL EXPANSION JOINTS.
6. PRIME CONTRACTORS BIDDING THIS WORK SHALL HAVE A' CLASS A OR C12 LICENSE.
7. LOCATION OF SEWER LATERALS SHOWN ON THE PLAN ARE APPROXIMATE. SEWER LATERALS SHALL BE LOCATED IN THE FIELD BY THE CONTRACTOR AT THE TIME OF CONSTRUCTION.
8. THESE PLANS ACCURATE FOR STREET IMPROVEMENT CONSTRUCTION ONLY FOR SIGNAL CONSTRUCTION SEE X-156 (OLIVEWOOD & KANE) & XL-259 FOR STRIPING.



PROJECT LOCATION PLAN

0 KM. 0.5 KM. 1 KM. 1.5 KM.
0' 500' 1000' 2000' 3000' 4000' 5000' 6000'

SCALE 1" = 1000'

EXISTING UNDERGROUND & TOPOGRAPHY LEGEND

EXISTING UNDERGROUND UTILITIES:

SANITARY SEWER — 8"S —
WATER LINE — 6"W —
STORM DRAIN — 24"S.D. —
GAS LINE — 3"G —
IRRIGATION LINE — 20" IRR. —
ABANDONED UTILITY — 6"G (ABAN'D.) —
TELEPHONE CONDUIT — T —
ELECTRICAL CONDUIT — E —
ELECTROLIER LIGHTING CONDUIT — ELC —
TRAFFIC SIGNAL — SIG —
FIRE ALARM — F —

EXISTING TOPOGRAPHY:

BLOCK WALL
BOARD FENCE
WIRE FENCE
CHAIN LINK FENCE
TOP OF SLOPE
TOE OF SLOPE
DIRECTION OF FLOW

SANITARY SEWER M.H.
SANITARY SEWER CLEANOUT
STORM DRAIN M.H.
IRRIGATION WEIR
WATER M.H.
GAS M.H.
ELECTRIC M.H.
TELEPHONE M.H. OR VAULT
WATER METER
FIRE HYDRANT
SPRINKLER HEAD
VALVE
AIR VALVE
AIR VENT
POLE & GUY ANCHOR
ELECTRIC POLE
TELEPHONE POLE
JOINT USE POLE
PULL BOX
TRAFFIC SIGN
PARKING METER
FIRE ALARM BOX
STREET NAME SIGN
GAS METER
MAIL BOX
FAUCET
TELEPHONE RISER
WHEEL STOP
A.C. BERM
STEEL POST
WOOD POST
PEDESTRIAN PUSH BUTTON
RAILROAD TRACKS
RAILROAD SIGN
RAILROAD SIGNAL
STREET LIGHT & TRAFFIC SIGNAL ON MAST ARM
STREET LIGHT (UPRIGHT)
STREET LIGHT
TRAFFIC SIGNAL
TRAFFIC SIGNAL ON MAST ARM
TRAFFIC SIGNAL CONTROLLER
TRAFFIC SIGNAL PRESSURE DETECTOR
TRAFFIC SIGNAL LOOP DETECTOR
CONCRETE
ASPHALT
EDGE OF PAVEMENT
BUILDING
UNDERGROUND STRUCTURE
OVERHANGING STRUCTURE
CITRUS TREE
OR DECIDUOUS TREE
OR PALM TREE
OR SHRUBBERY
TREE STUMP
EVERGREEN TREE

STATE GENERAL CONSTRUCTION NOTES

1. AN ENCROACHMENT PERMIT IS REQUIRED BEFORE ANY WORK MAY BEGIN IN OR NEAR THE STATE RIGHT OF WAY.
2. ALL WORK WITHIN THE STATE RIGHT OF WAY SHALL CONFORM TO THE LATEST STATE STANDARD PLANS AN SPECIFICATIONS OR AS DIRECTED BY THE STATE'S REPRESENTATIVE (STANDARDS OTHER THAN STATE MUST BE PRE-APPROVED AND JUSTIFIED)
3. NO EQUIPMENT OR MATERIALS MAY BE STORED ON THE STATE RIGHT OF WAY.
4. ALL DISTURBED AREAS IN THE STATE RIGHT OF WAY MUST BE TREATED FOR EROSION CONTROL (LANDSCAPING OR EQUIVALENT, OR AS DIRECTED BY THE STATE'S REPRESENTATIVE). THE RESPONSIBILITY FOR MAINTAINING EROSION CONTROL WILL NOT BE RELEASED UNTIL THE PLANTING IS WELL ESTABLISHED. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF CALTRANS CLEANING ANY DRAINAGE STRUCTURES/CHANNELS WHICH HAVE BECOME CLUTTERED WITH DEBRIS AND/OR SILT AS A RESULT OF, OR CAUSED BY, THE CONSTRUCTION PROJECT.
5. ACCESS CONTROL ON THE FREEWAY WILL BE MAINTAINED AT ALL TIMES, I.E., THE WORK INSIDE THE STATE RIGHT OF WAY MUST BE FENCED OFF WITH NO ACCESS TO THE WORK AREA FROM THE FREEWAY.
6. NO FREEWAY RAMPS OR FREEWAY LANES MAY BE CLOSED OR OBSTRUCTED AT ANYTIME UNLESS SPECIFICALLY ALLOWED PER THE ENCROACHMENT PERMIT AND/OR AS DIRECTED BY THE STATE'S REPRESENTATIVE
7. ALL STATE DRAINAGE STRUCTURES MUST FIRST BE COMPLETELY CLEANED OF DEBRIS AND/OR SILT BY THE CONTRACTOR PRIOR TO MAKING THE CONNECTION AND PRIOR TO FINAL ACCEPTANCE OF PERMIT WORK.
8. WHERE SURVEY MONUMENTS EXIST, SUCH MONUMENTS SHALL BE PROTECTED OR SHALL BE REFERENCED AND RESET PURSUANT TO BUSINESS AND PROFESSIONS CODE, SECTIONS 8700 TO 8805 (LAND SURVEYORS ACT)
9. THE PAVEMENT MUST BE SAW CUT 2' MINIMUM FROM THE EDGE OF PAVEMENT. THE SAW CUTS MUST BE PERPENDICULAR OR PARALLEL TO THE STATE HIGHWAY CENTERLINE.
10. ALL SIGNING, STRIPING AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE TRAFFIC MANUAL, PUBLISHED BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, AND THE SPECIAL PROVISIONS.
11. THE EXACT LOCATION OF ALL SIGNS SHALL BE DETERMINED IN THE FIELD BY THE STATES REPRESENTATIVE. CONFLICTING OR RELOCATABLE SIGNS SHALL BE REMOVED OR RELOCATED WHERE POSSIBLE.
12. ALL CONFLICTING STRIPING AND PAVEMENT MARKINGS NOT SHOWN ON THE PLANS SHALL BE REMOVED FROM THE PAVEMENT BY SANDBLASTING BY THE CONTRACTOR.

AS BUILT 5-18-92 RDM

SHEET INDEX

SHEET	DESCRIPTION
2	MULBERRY ST. & W.B. 91 FRWY. ON-RAMP
3	KANE ST.
4	DETAILS
5/6	LANDSCAPING & IRRIGATION
	FOR SIGNAL PLAN SEE: X-156 (OLIVEWOOD & KANE)
	FOR STRIPING PLAN SEE: XL-259

IMPORTANT NOTICE
Section 4216/4217 of the Government Code requires a Dig Alert Identification Number be issued before a "Permit to Excavate" will be valid. For your Dig Alert I.D. Number Call Underground Service Alert
TOLL FREE 1-800-422-4133
Two working days before you dig

ENGINEER IN RESPONSIBLE CHARGE
Ronald C. Mueller
RONALD C. MUELLER
R.C.E. 29510 expires 3/31/91
DATE 12-27-90

REGISTERED PROFESSIONAL ENGINEER — RONALD C. MUELLER — NO. 29510 — Expires 3/31/91 — CIVIL — STATE OF CALIFORNIA

CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT	BY	DATE
APPROVED BY		
PRINCIPAL ENGINEER		12/31/90
SURVEYOR		12-17-90
TRAFFIC DIVISION		2-27-91
CHIEF P.W. INSPECTOR		12-18-90
DEPUTY P.W. DIRECTOR-ENG.		2-28-90
STREET SERVICES		12-21-90

APPROVED BY: Barry Bel
PUBLIC WORKS DIRECTOR
DATE 12/28/90

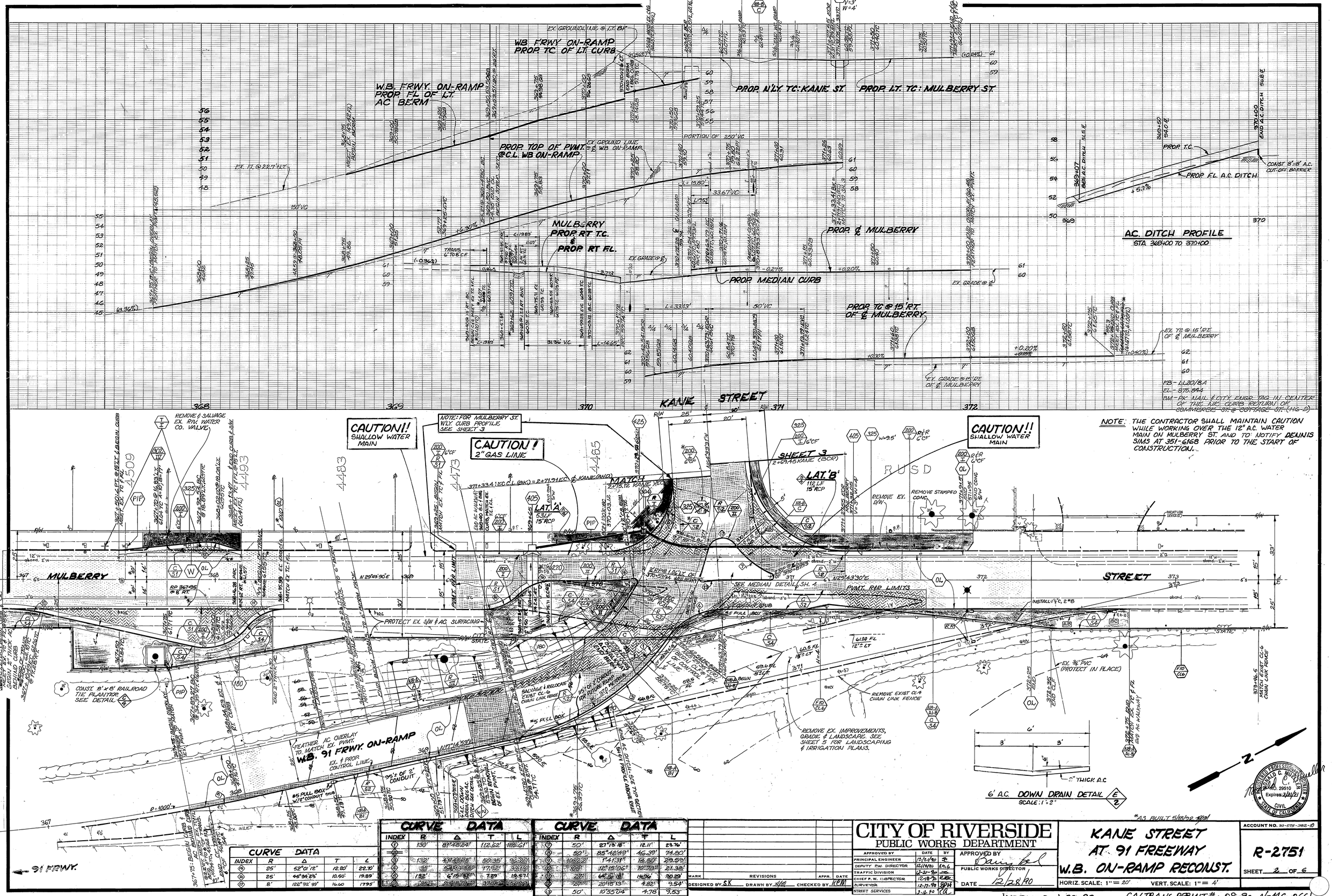
KANE STREET AT 91 FREEWAY W.B. ON-RAMP RECONST.

DESIGNED BY SK DRAWN BY CHECKED BY RCM

ACCOUNT No. 30-570-382-10
DRAWING NUMBER R-2751
SHEET 1 OF 6

INDEXED 1-23-92 LH

CALTRANS PERMIT #: 08-90-N-MC-0661



NOTE: THE CONTRACTOR SHALL MAINTAIN CAUTION WHILE WORKING OVER THE 12" A.C. WATER MAIN ON MULBERRY ST. AND TO NOTIFY DENNIS SIMS AT 351-6168 PRIOR TO THE START OF CONSTRUCTION.

CURVE DATA				
INDEX	R	Δ	T	L
16	25'	52°01'12"	12.20'	22.70'
17	25'	45°36'25"	10.50'	19.89'
17	8'	128°92'99"	16.60	17.95

CURVE DATA				
INDEX	R	Δ	T	L
1	130'	81°48'24"	112.62'	185.61'
2				
3	132'	41°45'18"	50.35'	96.20'
4	35'	54°43'52"	17.82'	30.13'
5	182'	2°18'32"	7.29'	14.57'
6	1434'	36°18'01"	378.83'	678.81'

CURVE DATA				
INDEX	R	Δ	T	L
1	50'	27°15'18"	12.11'	23.76'
2	50'	85°48'49"	46.39'	74.80'
3	1000'±	1°41'31"	18.80'	33.59'
4	100'	12°15'06"	10.79'	21.38'
5	271'	6°12'18"	16.94'	30.29'
6	271'	2°15'13"	4.82'	9.54'
7	50'	10°55'04"	4.78'	9.53'
8	100'	82°34'40"	7.34'	14.65'

MARK	REVISIONS	APPR.	DATE

DESIGNED BY SK DRAWN BY SMM CHECKED BY RPW

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	12/21/90	
DEPUTY P.W. DIRECTOR	12/24/90	K.M.G.
TRAFFIC DIVISION	12-21-90	
CHIEF P.W. INSPECTOR	12-18-90	R.R.
SURVEYOR	12-17-90	RPW
STREET SERVICES	12-18-90	

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 12/28/90

KANE STREET AT 91 FREEWAY W.B. ON-RAMP RECONST.

HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 4'

ACCOUNT NO. 30-5715-382-10

R-2751

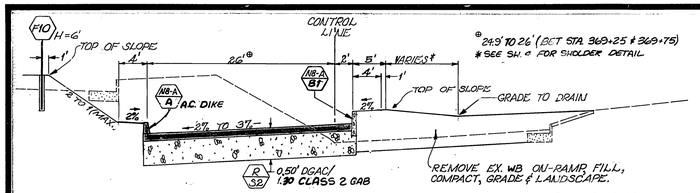
SHEET 2 OF 6

REGISTERED PROFESSIONAL ENGINEER DAVID C. MURRAY No. 29510 Expires: 3/31/91 CIVIL STATE OF CALIFORNIA

*AS BUILT 5/16/92 RPW

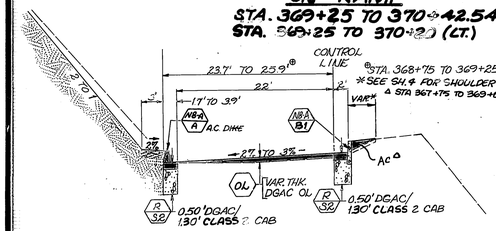
INDEXED 1-23-92 KH

CALTRANS PERMIT #: 08-90-N-MC-0661

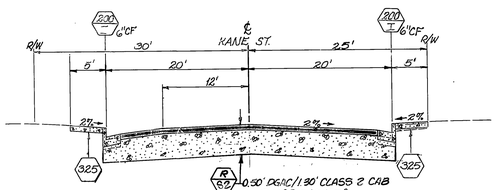


FREEWAY 91 W.B. (T.I. = 10)
ON-RAMP
STA. 369+25 TO 370+42.54 (RT.)
STA. 369+25 TO 370+20 (LT.)

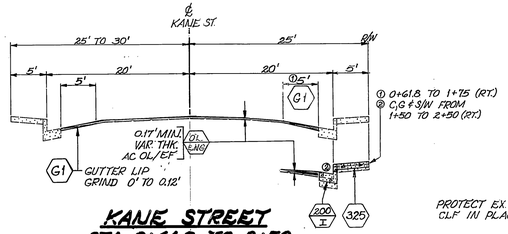
NOTE: ON-RAMP PAVEMENT SECTION DESIGN BASED ON T.I. = 10.0 AND R-VALUE OF 28 PER SOIL TEST REPORT BY C.H.J. GEOTECHNICAL, INC. DATED 11/8/90.



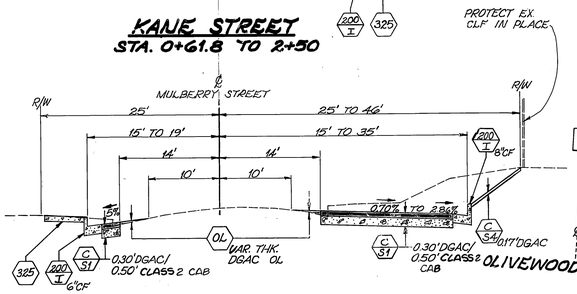
91 FREEWAY
W.B. ON-RAMP
STA. 367+75 TO STA. 369+25



KANE STREET (T.I. = 10)
STA. 2+50 TO 2+69.45 LT.
STA. 2+50 TO 2+75.12 RT.

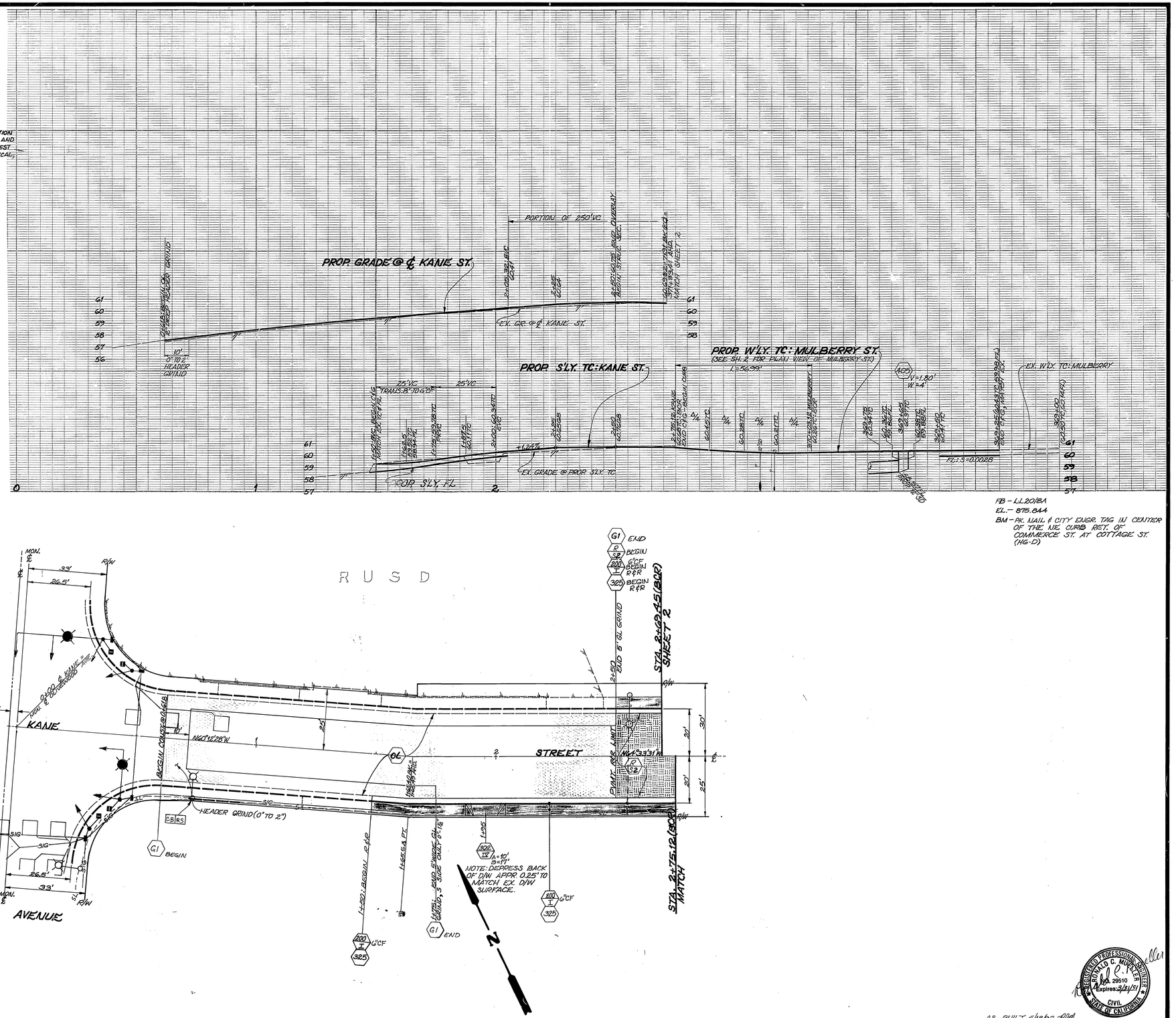


KANE STREET
STA. 0+61.8 TO 2+50



MULBERRY STREET (T.I. = 5)
STA. 366+89.27 TO 368+22.28 (RT.)
&
STA. 367+50 TO 368+13.47 (LT.)

TYPICAL SECTIONS
SCALE: HOR. 1" = 10'
VERT. 1" = 4'



FB - L.L. 2018A
EL. - 875.844
BM - PK. NAIL & CITY ENGR. TAG IN CENTER OF THE NE CURB RET. OF COMMERCE ST. AT COTTAGE ST. (HG-D)

MARK	REVISIONS	APPR.	DATE

DESIGNED BY SK DRAWN BY [illegible] CHECKED BY [illegible]

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	12/21/90	[illegible]
DEPUTY PW DIRECTOR	12/21/90	[illegible]
TRAFFIC DIVISION	12-21-90	[illegible]
CHIEF P.W. INSPECTOR	12-18-90	[illegible]
SURVEYOR	12-17-90	[illegible]
STREET SERVICES	12-18-90	[illegible]

APPROVED BY Barry Bel
PUBLIC WORKS DIRECTOR
DATE 12/28/90

KANE STREET AT 91 FREEWAY W.B. ON-RAMP RECONST.

HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 4'

ACCOUNT NO. 30-575-352-10

R-2751

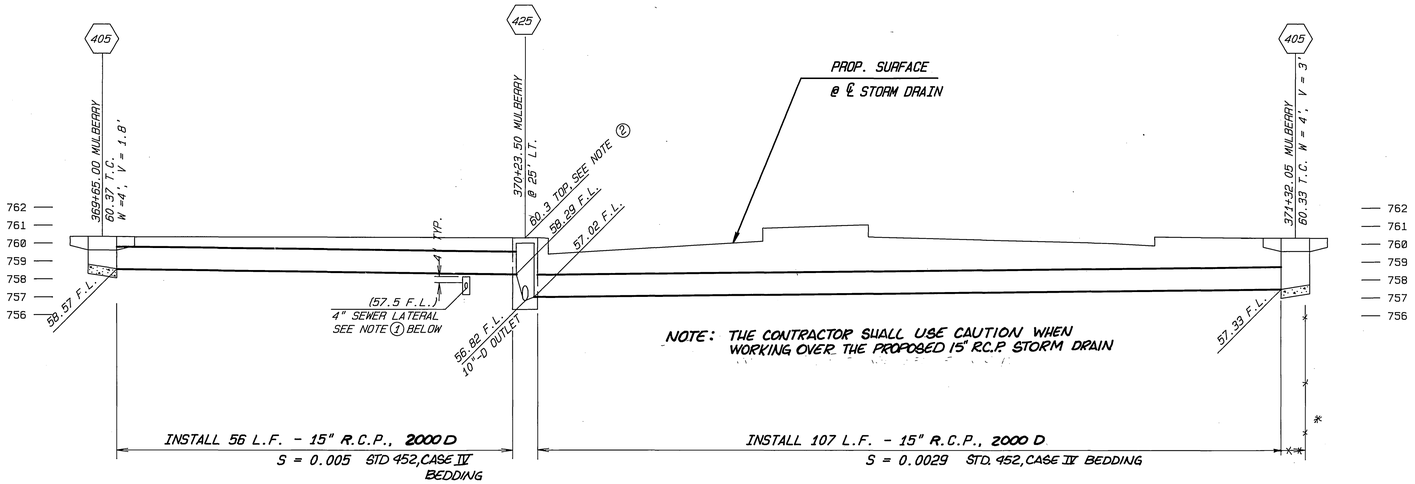
SHEET 3 OF 6

REGISTERED PROFESSIONAL ENGINEER RONALD C. MUNSER No. 29510 Expires: 3/31/91 CIVIL STATE OF CALIFORNIA

AS BUILT 5/16/92

INDEXED 1-23-92 CALTRANS PERMIT #: 08-90-N-MC-0661

OZALID NO.1



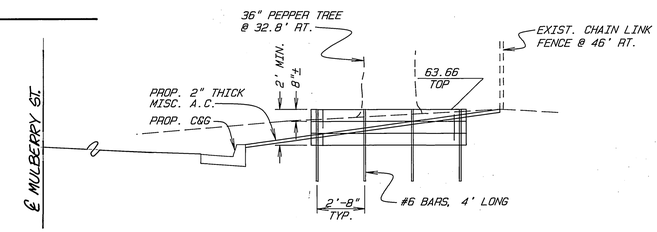
A/2 LATERAL 'A'

NOTE: ① ENCASE SEWER LATERAL IN P.C.C. AS SHOWN. ENCASEMENT TO EXTEND 2 FEET BEYOND THE TRENCH FOR THE 12" A.C.P. ON BOTH SIDES.

② TOP OF CLEAN OUT BOX TO SLOPE TO CONFORM TO PROP. WHEELCHAIR RAMP.

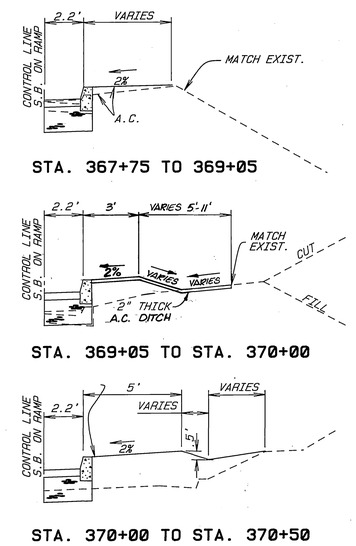
SCALE: 1"=10' HORIZ.
1"=4' VERT.

B/2 LATERAL 'B'



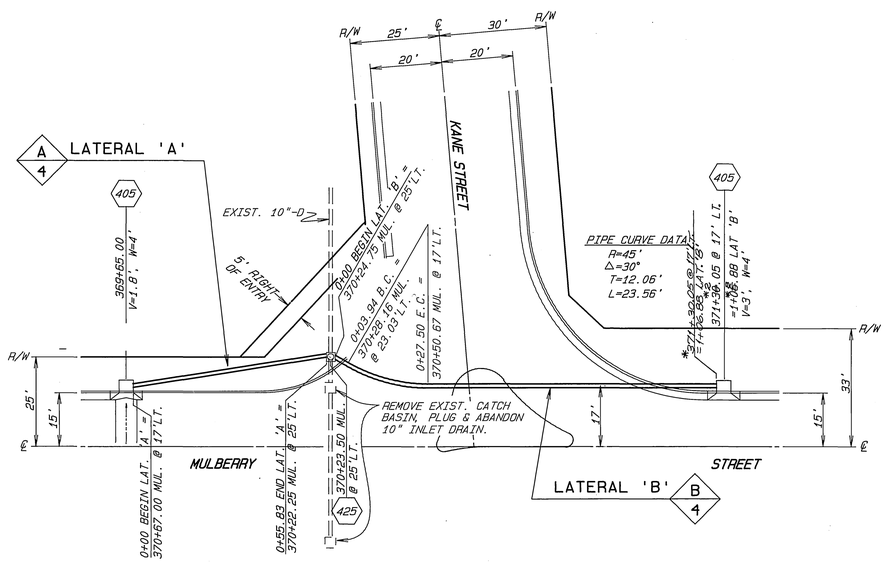
SECTION A-A

SCALE: 1"= 4'



TYP. SECTS. W.B. ON RAMP SHOULDER

SCALE: 1"=4'

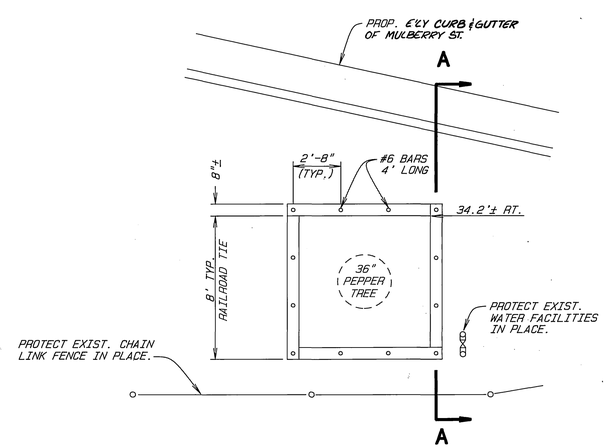


D/2 STORM DRAIN ALIGNMENT

369+67 TO 371+30.05 MULBERRY

SCALE: 1" = 20'

NOTE: THIS DETAIL TO SHOW STORM DRAIN ALIGNMENT ONLY. EXIST. TOPOGRAPHY NOT SHOWN FOR CLARITY.

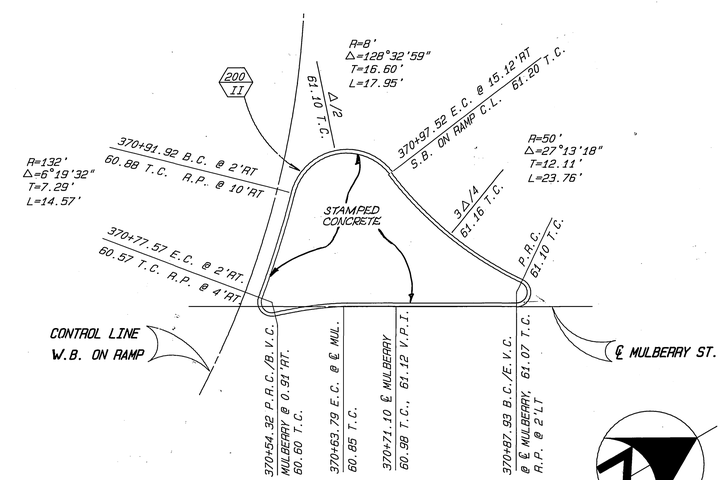


C/2 RAILROAD TIE PLANTER DETAIL

367+69 MULBERRY (RT.)

SCALE: 1"= 4'

NOTE: RAILROAD TIE DIMENSIONS MAY VARY. THE CONTRACTOR SHALL SUPPLY TIES OF UNIFORM DIMENSIONS. THE OVERALL PLANTER DIMENSIONS MAY VARY SLIGHTLY AND THE NUMBER OF COURSES VARIED TO MEET THE MIN. DEPTH REQUIREMENT.



MEDIAN ISLAND DETAIL

SCALE: 1'=10'

REGISTERED PROFESSIONAL ENGINEER
RONALD C. MOELLER
No. 29510
Expires: 3/31/93
CIVIL
STATE OF CALIFORNIA

*AS BUILT 5/16/92 RCM

MARK	REVISIONS	APPR.	DATE

DESIGNED BY SK DRAWN BY SK CHECKED BY RCM

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	12/21/90	
CHIEF P.W. ENGINEER	12/26/90	
CHIEF P.W. INSPECTOR	12-18-90	
SURVEYOR	12-17-90	BPA
TRAFFIC DIVISION	12-31-90	
STREET SERVICES	12-12-90	

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 12/28/90

KANE ST./91 FWY. W.B. ON RAMP RECONSTRUCTION

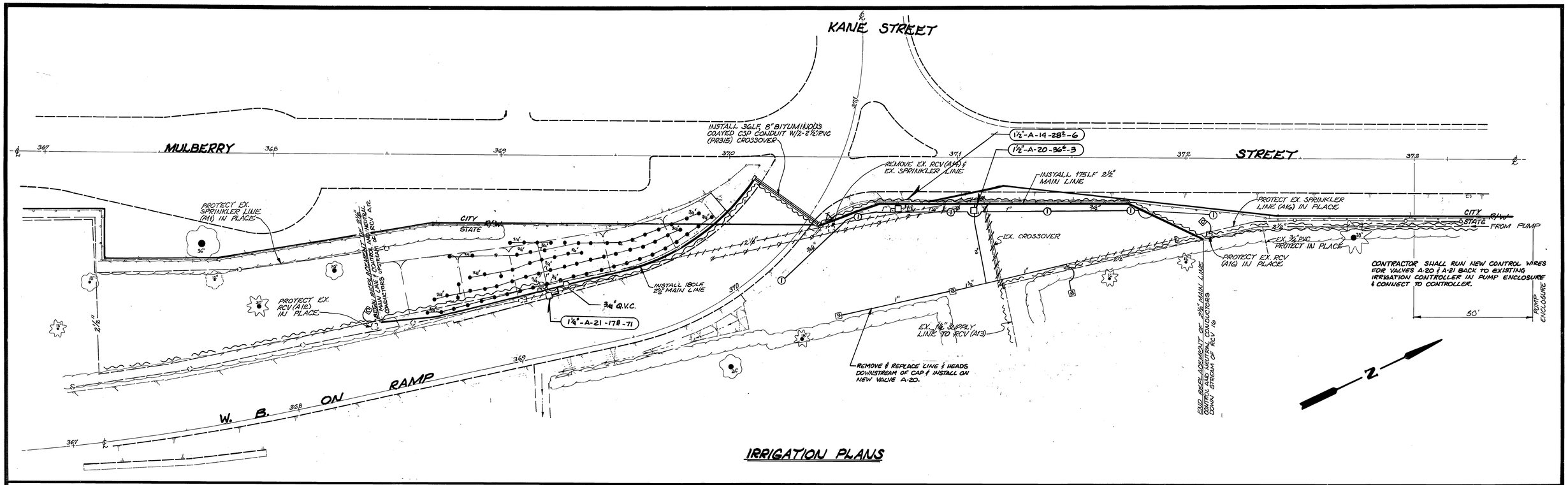
HORIZ. SCALE: 1"= VERT. SCALE: 1"=

ACCOUNT NO. 38-573-382-10

R-2751

SHEET 4 OF 6

CALTRANS PERMIT #: 08-90-N-MC-0661
INDEXED 1-23-92



REGISTERED LANDSCAPE ARCHITECT
ROBERT L. JOHNSON NO. 1747
Signature
6-21-91
Date
STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY [illegible] DRAWN BY [illegible] CHECKED BY [illegible]

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	12/21/90	[illegible]
DEPUTY P.W. DIRECTOR	12/24/90	[illegible]
TRAFFIC DIVISION	12-21-90	[illegible]
~~CHIEF P.W. ENGINEER~~		
SURVEYOR	12-17-90	[illegible]
STREET SERVICES	12-17-90	[illegible]
PARK DEPT.	6-25-91	[illegible]

APPROVED BY [illegible]
PUBLIC WORKS DIRECTOR
DATE 12/28/90

KANE STREET
AT 91 FREEWAY
W.B. ON-RAMP RECONST.

HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" =

AS BUILT 5/18/92 [illegible]

ACCOUNT NO. 30-575-382-10

R-2751

SHEET 5 OF 6

INDEXED 1-23-92 [illegible] CALTRANS PERMIT # : 08-90-N-MC-0661