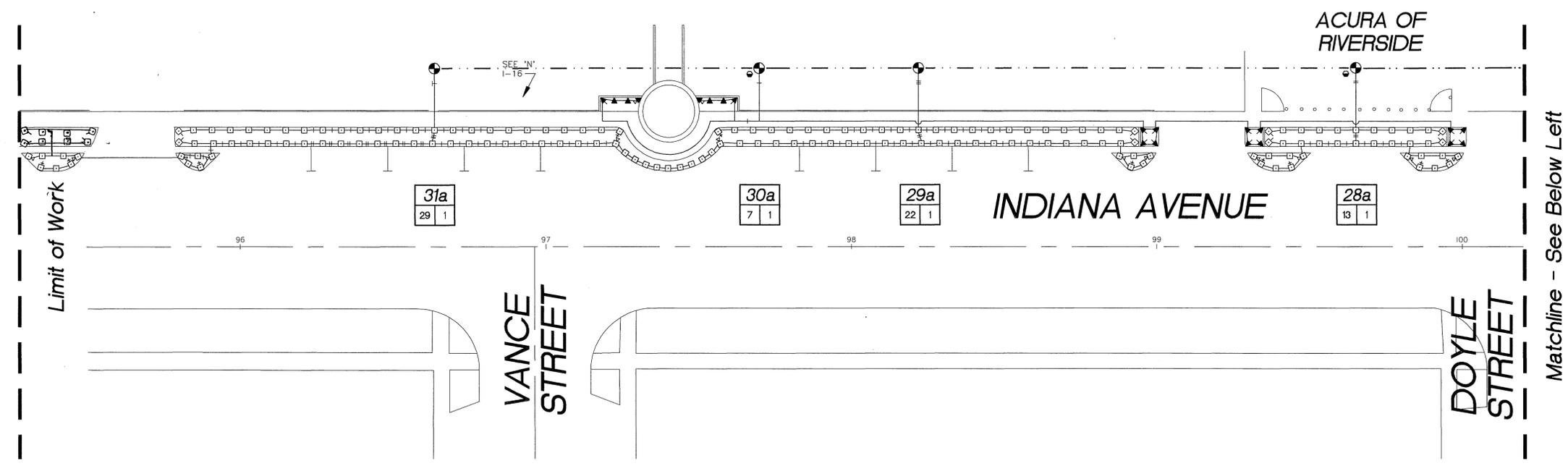


SCH 40 PVC SLEEVING CHART		
1 1/4" SLEEVE	1-4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5-10 WIRES	3/4" PIPE
2" SLEEVE	11-20 WIRES	1" PIPE
2 1/2" SLEEVE	21-30 WIRES	1 1/4" PIPE
3" SLEEVE	31-40 WIRES	1 1/2" PIPE
4" SLEEVE	41-60 WIRES	2" PIPE
6" SLEEVE	61-99 WIRES	3" PIPE
8" SLEEVE	100+ WIRES	4" PIPE
10" SLEEVE	N/A	6" PIPE

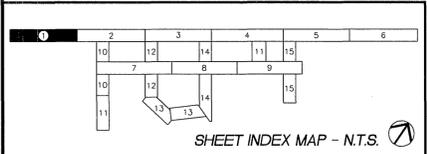
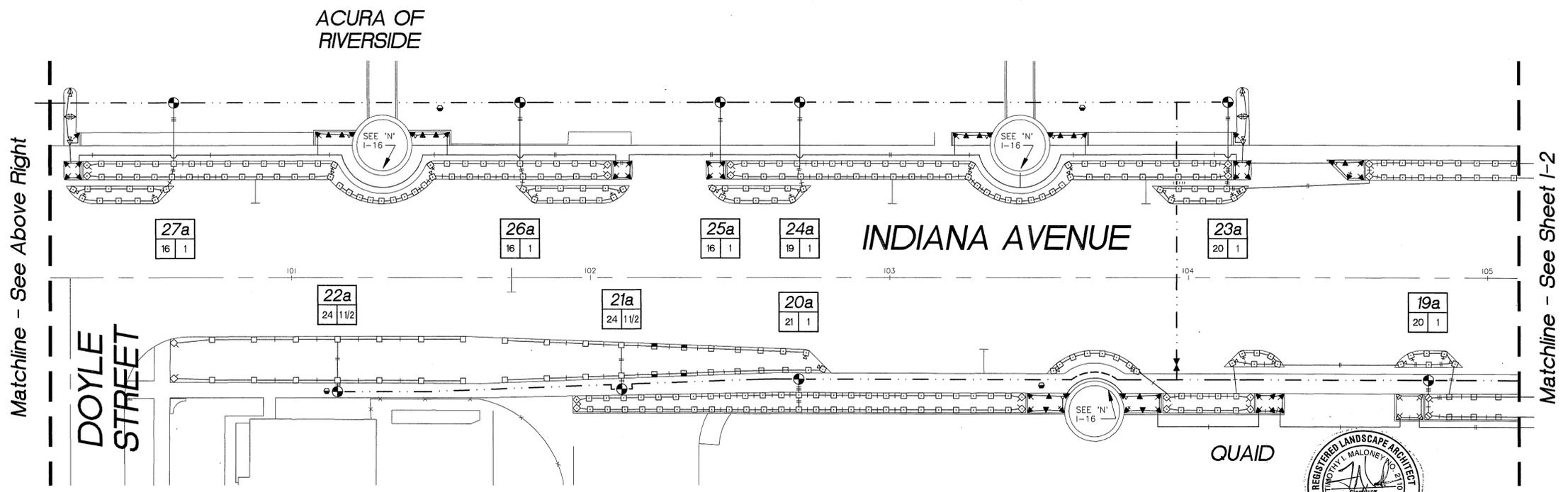
STATION #	CONTROLLER
+	+
FLOW (GPM)	VALVE SIZE
+	+

PIPE SIZING CHART	
1/2" PIPE	1/2" PIPE
3/4" PIPE	3/4" PIPE
1" PIPE	1" PIPE
1 1/4" PIPE	1 1/4" PIPE
1 1/2" PIPE	1 1/2" PIPE
2" PIPE	2" PIPE
2 1/2" PIPE	2 1/2" PIPE
3" PIPE	3" PIPE
4" PIPE	4" PIPE
6" PIPE	6" PIPE



1. SEE SHEET I-0 FOR IRRIGATION LEGENDS.
2. SEE SHEET I-0 FOR GENERAL IRRIGATION NOTES.
3. SEE SHEET I-0 FOR PROJECT SPECIFIC IRRIGATION NOTES.
4. SEE SHEET I-16 FOR IRRIGATION DETAILS.

**\*\*NOTE\*\***  
 MAINLINE, LATERAL LINE, AND CONTROL WIRE SLEEVES ARE NOT SHOWN ON DRAWINGS. ALL LINES AND WIRES UNDER HARDSCAPE TO BE SLEEVED IN SCHEDULE 40 PVC SIZED PER SLEEVING CHART. ALL LINES AND WIRE ARE NOT TO BE LOCATED UNDER DISPLAY PADS (TYP.). ALL SLEEVE LOCATIONS TO BE APPROVED BY CITY INSPECTOR.



**COMWORKS DESIGN GROUP**  
 3750 University Avenue  
 Suite 175  
 Riverside, CA 92501  
 (909) 369-0700  
 Fax (909) 369-0700  
 e-mail: comworks@pe.net  
 http://www.pe.net/comworks



Underground Service Alert  
 Call: TOLL FREE  
 1 - 800  
 227 - 2600  
 TWO WORKING DAYS BEFORE YOU DIG

**PRIVATE ENGINEERING NOTE**  
 CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINGUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

PREPARED UNDER THE DIRECTION OF:  
 REGISTERED LANDSCAPE ARCHITECT NO. 2110  
 EXPIRATION DATE: 10/19/99  
 APPROVED BY:

**CEG CANTY ENGINEERING GROUP, INC.**  
 CIVIL ENGINEERING - PLANNING - SURVEYING  
 3120 CHICAGO AVENUE, SUITE 180, P.O. BOX 52050, RIVERSIDE, CA 92517  
 TEL (909) 683 - 5234 FAX (909) 683 - 5301

SCALE: 1" = 20'-0" BENCH MARK:  
 DATE: AUGUST, 1999

MARK	REVISIONS	APPR. DATE
DESIGNED BY	DRAWN BY	CHECKED BY

**CITY OF RIVERSIDE,**  
 DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL ENGR.			
PARK DEPARTMENT			
TRAFFIC DIVISION			
CHIEF P.W. ENGR.			

DIRECTOR OF PUBLIC WORKS

IN THE CITY OF RIVERSIDE, COUNTY OF RIVERSIDE  
 STATE OF CALIFORNIA  
 LANDSCAPE ARCHITECTURAL PLANS FOR  
 AUTO CENTER RENOVATION  
 INDIANA AVENUE  
 IRRIGATION PLAN  
 FOR: RIVERSIDE AUTO CENTER ASSESSMENT DISTRICT  
 PROJECT NO. R-3471  
 I-1  
 OF 20 SHEETS  
 FILE NO.: 9613380  
 INDEXED 12-26-01

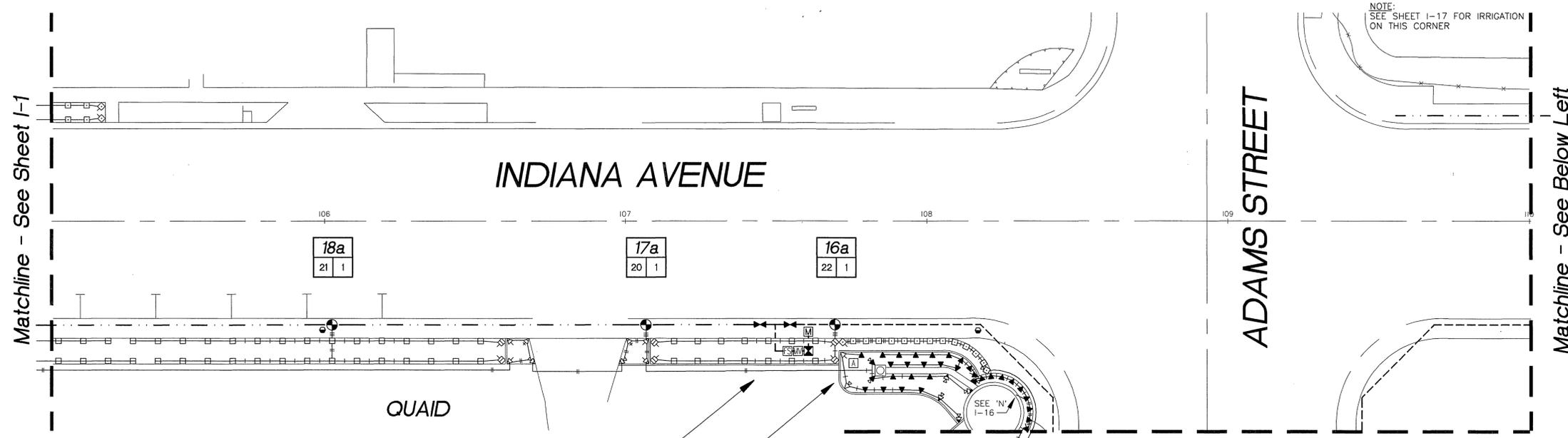
**SCH 40 PVC SLEEVING CHART**

1 1/4" SLEEVE	1-4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5-10 WIRES	3/4" PIPE
2" SLEEVE	11-20 WIRES	1" PIPE
2 1/2" SLEEVE	21-30 WIRES	1 1/4" PIPE
3" SLEEVE	31-40 WIRES	1 1/2" PIPE
4" SLEEVE	41-60 WIRES	2" PIPE
6" SLEEVE	61-99 WIRES	3" PIPE
8" SLEEVE	100+ WIRES	4" PIPE
10" SLEEVE	N/A	6" PIPE

STATION #	CONTROLLER
FLOW (GPM)	VALVE SIZE

**PIPE SIZING CHART**

1/2" PIPE
3/4" PIPE
1" PIPE
1 1/4" PIPE
1 1/2" PIPE
2" PIPE
2 1/2" PIPE
3" PIPE
4" PIPE
6" PIPE



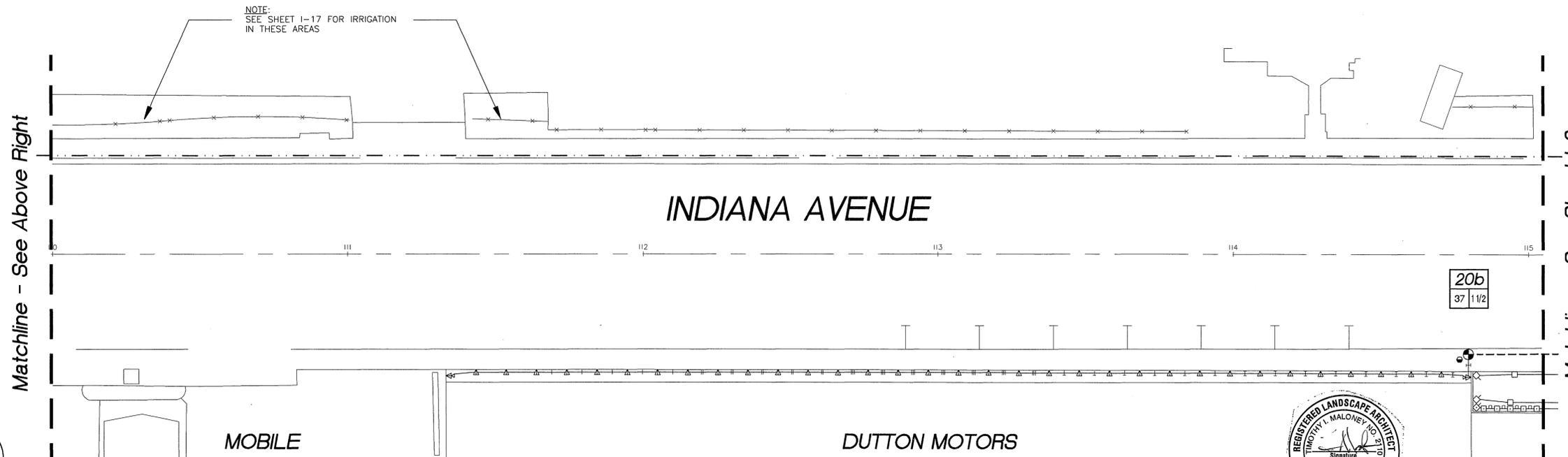
NOTE:  
SEE SHEET I-17 FOR IRRIGATION  
ON THIS CORNER

MAKE IRRIGATION SYSTEM 'A' POINT OF CONNECTION INTO NEW 1" WATER METER (WITH 1 1/2" MIN. SERVICE LINE SIZE). CITY OF RIVERSIDE WATER DEPARTMENT TO INSTALL SERVICE LINE, METER, AND METER BOX. CONTRACTOR TO COORDINATE ALL WORK AND PAY ALL ASSOCIATED FEES AND ANY RELATED COSTS. INSTALL BACKFLOW PREVENTER AT POC PER ALL LOCAL CODES. METER ELEVATION IS +/- 835'. SERVER AREA HIGH POINT IS +/- 854'. SERVE AREA LOW POINT IS +/- 824'. STATIC PRESSURE AT POC CAN RANGE FROM 55-70 PSI. MAXIMUM FLOW THROUGH METER IS +/- 24 GPM.

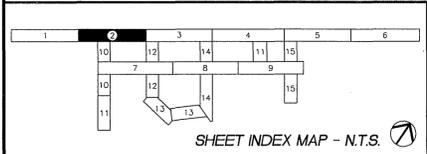
INSTALL 'A' CONTROLLER IN PLANTER AREA AS SHOWN ON THE PLANS. FINAL CONTROLLER LOCATION TO BE DETERMINED IN THE FIELD BY THE CITY'S AUTHORIZED REPRESENTATIVE. POWER TO BE PROVIDED TO CONTROLLER LOCATION BY OTHERS (SEE SITE ELECTRICAL PLANS PREPARED BY WEST COAST DESIGN). LANDSCAPE CONTRACTOR TO VERIFY FINAL POWER LOCATION IN THE FIELD AND MAKE ANY NECESSARY FIELD ADJUSTMENTS TO BRING POWER TO FINAL CONTROLLER LOCATION. ALL ELECTRICAL WORK SHALL BE PER CITY STANDARDS. CONTRACTOR SHALL CONTRACT WATER CONSERVATION SYSTEMS TO HAVE A FIELD REPRESENTATIVE PRESENT AT TIME OF CONTROLLER INSTALLATION TO PROPERLY SET THE ET FACTOR. WIRE THE FLOW SENSOR AND MASTER VALVE TO THE CONTROLLER PER THE MANUFACTURER'S DIRECTIONS. WIRE, MOUNT, AND GROUND THE CONTROLLER PER THE MANUFACTURER'S DIRECTIONS. 'A' CONTROLLER TO BE A 32 STATION MODEL.

1. SEE SHEET I-0 FOR IRRIGATION LEGENDS.
2. SEE SHEET I-0 FOR GENERAL IRRIGATION NOTES.
3. SEE SHEET I-0 FOR PROJECT SPECIFIC IRRIGATION NOTES.
4. SEE SHEET I-16 FOR IRRIGATION DETAILS.

**\*\*NOTE\*\***  
MAINLINE, LATERAL LINE, AND CONTROL WIRE SLEEVES ARE NOT SHOWN ON DRAWINGS. ALL LINES AND WIRES UNDER HARDSCAPE TO BE SLEEVED IN SCHEDULE 40 PVC SIZED PER SLEEVING CHART. ALL LINES AND WIRE ARE NOT TO BE LOCATED UNDER DISPLAY PADS (TYP.). ALL SLEEVE LOCATIONS TO BE APPROVED BY CITY INSPECTOR.



NOTE:  
SEE SHEET I-17 FOR IRRIGATION  
IN THESE AREAS



3750 University Avenue  
Suite 175  
Riverside, CA 92501  
(909) 369-0700  
Fax (909) 369-0700  
e-mail: comworks@pe.net  
http://www.pe.net/comworks



File W/R-3471

<p>Underground Service Alert Call: TOLL FREE 1 - 800 227 - 2600</p> <p>TWO WORKING DAYS BEFORE YOU DIG</p>	<p><b>PRIVATE ENGINEERING NOTE</b></p> <p>CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONJUNCTIVELY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.</p>	<p>PREPARED UNDER THE DIRECTION OF: <i>[Signature]</i></p> <p>REGISTERED LANDSCAPE ARCHITECT NO. 2110 EXPIRATION DATE: 10/19/99</p> <p>APPROVED BY:</p>	<p><b>CEG</b> CANTY ENGINEERING GROUP, INC. CIVIL ENGINEERING - PLANNING - SURVEYING</p> <p>3120 CHICAGO AVENUE, SUITE 180, P.O. BOX 52050, RIVERSIDE, CA 92517 TEL (909) 683 - 5234 FAX (909) 683 - 5301</p> <p>SCALE: 1" = 20'-0" BENCH MARK: DATE: AUGUST, 1997</p>	<p>DESIGNED BY _____ DRAWN BY _____ CHECKED BY _____</p>	<p><b>CITY OF RIVERSIDE,</b> DEPARTMENT OF PUBLIC WORKS</p>		<p>IN THE CITY OF RIVERSIDE, COUNTY OF RIVERSIDE STATE OF CALIFORNIA LANDSCAPE ARCHITECTURAL PLANS FOR AUTO CENTER RENOVATION INDIANA AVENUE IRRIGATION PLAN</p> <p>FOR: RIVERSIDE AUTO CENTER ASSESSMENT DISTRICT</p>	<p>PROJECT NO. R-3471 <b>I-2</b> OF 20 SHEETS FILE NO.: 9613380</p>
					<p>APPROVED BY _____ BY _____ DATE _____</p> <p>PRINCIPAL ENGR.</p> <p>PARK DEPARTMENT</p> <p>TRAFFIC DIVISION</p> <p>CHIEF P.W. ENGR.</p>	<p>APPROVED BY _____</p> <p>DIRECTOR OF PUBLIC WORKS</p> <p>DATE _____</p>		

PHIL JONES & SAM HALLER  
RIVERSIDE AUTO CENTER  
RESALE DEPARTMENT

CROWELL  
AVENUE

INDIANA AVENUE

GILBERTO  
AVENUE

Matchline - See Sheet I-2

Matchline - See Below Left

21b  
30 1 1/2

SEE 'N'  
I-16

MOTOR  
CIRCLE

18b  
26 1 1/2

SEE 'N'  
I-16

19b  
23 1

13c  
18 1

MOSS MOTORS  
DODGE

Matchline - See Sheet I-12

1. SEE SHEET I-0 FOR IRRIGATION LEGENDS.
2. SEE SHEET I-0 FOR GENERAL IRRIGATION NOTES.
3. SEE SHEET I-0 FOR PROJECT SPECIFIC IRRIGATION NOTES.
4. SEE SHEET I-16 FOR IRRIGATION DETAILS.

SCH 40 PVC SLEEVING CHART		
1 1/4" SLEEVE	1-4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5-10 WIRES	3/4" PIPE
2" SLEEVE	11-20 WIRES	1" PIPE
2 1/2" SLEEVE	21-30 WIRES	1 1/4" PIPE
3" SLEEVE	31-40 WIRES	1 1/2" PIPE
4" SLEEVE	41-60 WIRES	2" PIPE
6" SLEEVE	61-99 WIRES	3" PIPE
8" SLEEVE	100+ WIRES	4" PIPE
10" SLEEVE	N/A	6" PIPE

STATION #	CONTROLLER

FLOW (GPM)	VALVE SIZE

PIPE SIZING CHART	
1/2" PIPE	1/2" PIPE
3/4" PIPE	3/4" PIPE
1" PIPE	1" PIPE
1 1/4" PIPE	1 1/4" PIPE
1 1/2" PIPE	1 1/2" PIPE
2" PIPE	2" PIPE
2 1/2" PIPE	2 1/2" PIPE
3" PIPE	3" PIPE
4" PIPE	4" PIPE
6" PIPE	6" PIPE

**\*\*NOTE\*\***  
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GILBERTO  
AVENUE

INDIANA AVENUE

Matchline - See Above Right

Matchline - See Sheet I-4

14c  
11 1

12c  
23 1

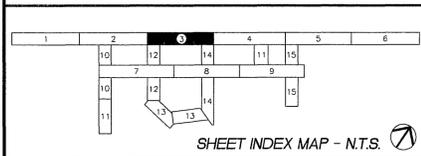
11c 10c  
30 1 1/2 26 1

MOTOR  
CIRCLE

MULLER-HOOD  
PONTIAC-SUZUKI

Matchline - See Sheet I-14

ALVAREZ  
LINCOLN-MERCURY



3750 University Avenue  
Suite 175  
Riverside, CA 92501  
(909) 369-0700  
Fax (909) 369-0700  
e-mail: comworks@pe.net  
http://www.pe.net/comworks



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TWO WORKING DAYS BEFORE YOU DIG

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PREPARED UNDER THE DIRECTION OF:  
*[Signature]*  
REGISTERED LANDSCAPE ARCHITECT NO. 2440  
EXPIRATION DATE: 10/29/99  
APPROVED BY:

**CEG** CANTY ENGINEERING GROUP, INC.  
CIVIL ENGINEERING - PLANNING - SURVEYING  
3120 CHICAGO AVENUE, SUITE 180, P.O. BOX 52050, RIVERSIDE, CA 92517  
TEL (909) 683 - 5234 FAX (909) 683 - 5301

SCALE: 1" = 20'-0"  
BENCH MARK:  
DATE: AUGUST, 1997

MARK	REVISIONS	APPR.	DATE

DESIGNED BY: \_\_\_\_\_ DRAWN BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_

CITY OF RIVERSIDE,  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: \_\_\_\_\_ BY DATE: \_\_\_\_\_  
PRINCIPAL ENGR.  
PARK DEPARTMENT  
TRAFFIC DIVISION  
CHIEF P. ENGR.

APPROVED BY: \_\_\_\_\_  
DIRECTOR OF PUBLIC WORKS

DATE: \_\_\_\_\_

IN THE CITY OF RIVERSIDE, COUNTY OF RIVERSIDE  
STATE OF CALIFORNIA  
LANDSCAPE ARCHITECTURAL PLANS FOR  
AUTO CENTER RENOVATION  
INDIANA AVENUE  
IRRIGATION PLAN  
FOR: RIVERSIDE AUTO CENTER ASSESSMENT DISTRICT  
PROJECT NO. R-3471  
I-3  
OF 20 SHEETS  
FILE NO.: 9613380  
INDEXED 12-26-01 LH

1 1/4" SLEEVE	1-4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5-10 WIRES	3/4" PIPE
2" SLEEVE	11-20 WIRES	1" PIPE
2 1/2" SLEEVE	21-30 WIRES	1 1/4" PIPE
3" SLEEVE	31-40 WIRES	1 1/2" PIPE
4" SLEEVE	41-60 WIRES	2" PIPE
6" SLEEVE	61-99 WIRES	3" PIPE
8" SLEEVE	100+ WIRES	4" PIPE
10" SLEEVE	N/A	6" PIPE

STATION #	CONTROLLER
FLOW (GPM)	VALVE SIZE

1/2" PIPE
3/4" PIPE
1" PIPE
1 1/4" PIPE
1 1/2" PIPE
2" PIPE
2 1/2" PIPE
3" PIPE
4" PIPE
6" PIPE

Matchline - See Sheet I-3

Matchline - See Below Left

# INDIANA AVENUE

125 126 127 128 129

16c	15c
32 11/2	22 1

**\*\*NOTE\*\***  
 MAINLINE, LATERAL LINE, AND CONTROL WIRE SLEEVES ARE NOT SHOWN ON DRAWINGS. ALL LINES AND WIRES UNDER HARDSCAPE TO BE SLEEVED IN SCHEDULE 40 PVC SIZED PER SLEEVING CHART. ALL LINES AND WIRE ARE NOT TO BE LOCATED UNDER DISPLAY PADS (TYP.). ALL SLEEVE LOCATIONS TO BE APPROVED BY CITY INSPECTOR.

INSTALL 'D' CONTROLLER IN PLANTER AREA AS SHOWN ON THE PLANS. FINAL CONTROLLER LOCATION TO BE DETERMINED IN THE FIELD BY THE CITY'S AUTHORIZED REPRESENTATIVE. POWER TO BE PROVIDED TO CONTROLLER LOCATION BY OTHERS (SEE SITE ELECTRICAL PLANS PREPARED BY 'WEST COAST DESIGN'). LANDSCAPE CONTRACTOR TO VERIFY FINAL POWER LOCATION IN THE FIELD AND MAKE ANY NECESSARY FIELD ADJUSTMENTS TO BRING POWER TO FINAL CONTROLLER LOCATION. ALL ELECTRICAL WORK SHALL BE PER CITY STANDARDS. CONTRACTOR SHALL CONTRACT WATER CONSERVATION SYSTEMS TO HAVE A FIELD REPRESENTATIVE PRESENT AT TIME OF CONTROLLER INSTALLATION TO PROPERLY SET THE ET FACTOR. WIRE THE FLOW SENSOR AND MASTER VALVE TO THE CONTROLLER PER THE MANUFACTURER'S DIRECTIONS. WIRE, MOUNT, AND GROUND THE CONTROLLER PER THE MANUFACTURER'S DIRECTIONS. 'D' CONTROLLER TO BE A 48 STATION MODEL.

INSTALL 'E' CONTROLLER IN PLANTER AREA AS SHOWN ON THE PLANS. FINAL CONTROLLER LOCATION TO BE DETERMINED IN THE FIELD BY THE CITY'S AUTHORIZED REPRESENTATIVE. POWER TO BE PROVIDED TO CONTROLLER LOCATION BY OTHERS (SEE SITE ELECTRICAL PLANS PREPARED BY 'WEST COAST DESIGN'). LANDSCAPE CONTRACTOR TO VERIFY FINAL POWER LOCATION IN THE FIELD AND MAKE ANY NECESSARY FIELD ADJUSTMENTS TO BRING POWER TO FINAL CONTROLLER LOCATION. ALL ELECTRICAL WORK SHALL BE PER CITY STANDARDS. CONTRACTOR SHALL CONTRACT WATER CONSERVATION SYSTEMS TO HAVE A FIELD REPRESENTATIVE PRESENT AT TIME OF CONTROLLER INSTALLATION TO PROPERLY SET THE ET FACTOR. WIRE THE FLOW SENSOR AND MASTER VALVE TO THE CONTROLLER PER THE MANUFACTURER'S DIRECTIONS. WIRE, MOUNT, AND GROUND THE CONTROLLER PER THE MANUFACTURER'S DIRECTIONS. 'E' CONTROLLER TO BE A 20 STATION MODEL.

- SEE SHEET I-0 FOR IRRIGATION LEGENDS.
- SEE SHEET I-0 FOR GENERAL IRRIGATION NOTES.
- SEE SHEET I-0 FOR PROJECT SPECIFIC IRRIGATION NOTES.
- SEE SHEET I-16 FOR IRRIGATION DETAILS.



MAKE IRRIGATION SYSTEM 'D/E' POINT OF CONNECTION INTO EXISTING 2" WATER METER (VERIFY EXACT LOCATION IN THE FIELD). THIS METER IS TO BE SPLIT INTO TWO (2) INDEPENDENT SYSTEMS DOWNSTREAM OF THE BACKFLOW PREVENTER. INSTALL 2" BACKFLOW PREVENTER AT POC PER ALL LOCAL CODES. METER ELEVATION IS +/- 835'. SERVE AREA HIGH POINT IS +/- 847'. SERVE AREA LOW POINT IS +/- 830'. STATIC PRESSURE AT POC CAN RANGE FROM 55-70 PSI. MAXIMUM FLOW OF COMBINED SYSTEMS IS +/- 55 GPM. MAXIMUM FLOW OF 'D' SYSTEM IS +/- 35 GPM. MAXIMUM FLOW OF 'E' SYSTEM IS +/- 20 GPM.

SUSAN STREET

LILA STREET

# INDIANA AVENUE

130 131 132 133 134 135

19d	20d
22 1	26 11/2

1e	2e
11 1	9 1

3e	4e
21 1	20 1

1d	2d
14 1	28 1

DETROIT DRIVE

Matchline - See Above Right

Matchline - See Sheet I-5

MULLER-HOOD BUICK

Matchline - See Sheet I-11

RIVERSIDE CHRYSLER-PLYMOUTH

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18

3750 University Avenue  
 Suite 175  
 Riverside, CA 92501  
 (909) 369-0700  
 Fax (909) 369-0700  
 e-mail: comworks@pe.net  
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 TWO WORKING DAYS BEFORE YOU DIG

**PRIVATE ENGINEERING NOTE**  
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PREPARED UNDER THE DIRECTION OF:  
 REGISTERED LANDSCAPE ARCHITECT NO. 770  
 EXPIRATION DATE: 12/31/99  
 APPROVED BY:

**CEG** CANTY ENGINEERING GROUP, INC.  
 CIVIL ENGINEERING - PLANNING - SURVEYING  
 3120 CHICAGO AVENUE, SUITE 180, P.O. BOX 52050, RIVERSIDE, CA 92517  
 TEL (909) 683 - 5234 FAX (909) 683 - 5301

SCALE: 1" = 20'-0" BENCH MARK:  
 DATE: AUGUST, 1997

MARK	REVISIONS	APPR. DATE
DESIGNED BY	DRAWN BY	CHECKED BY

CITY OF RIVERSIDE,  
 DEPARTMENT OF PUBLIC WORKS

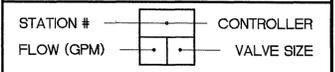
APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL ENGR.			DIRECTOR OF PUBLIC WORKS
PARK DEPARTMENT			
TRAFFIC DIVISION			
CHIEF P.W. ENGR.			DATE

IN THE CITY OF RIVERSIDE, COUNTY OF RIVERSIDE  
 STATE OF CALIFORNIA  
 LANDSCAPE ARCHITECTURAL PLANS FOR  
 AUTO CENTER RENOVATION  
 INDIANA AVENUE  
 IRRIGATION PLAN

PROJECT NO. R-3471  
 I-4  
 OF 20 SHEETS  
 FOR: RIVERSIDE AUTO CENTER ASSESSMENT DISTRICT  
 FILE NO.: 9613380

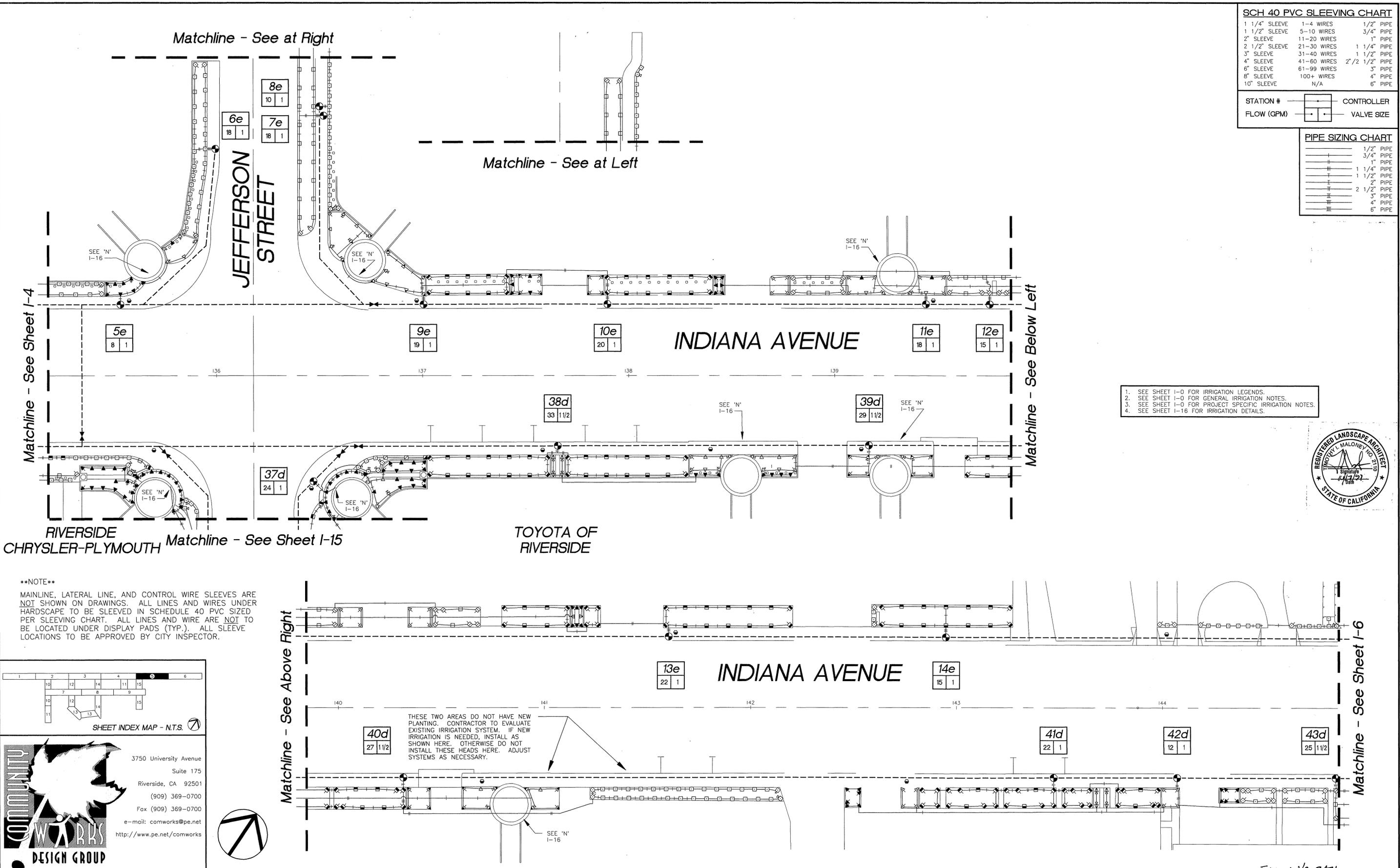
File W/R-3471

1 1/4" SLEEVE	1-4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5-10 WIRES	3/4" PIPE
2" SLEEVE	11-20 WIRES	1" PIPE
2 1/2" SLEEVE	21-30 WIRES	1 1/4" PIPE
3" SLEEVE	31-40 WIRES	1 1/2" PIPE
4" SLEEVE	41-60 WIRES	2" PIPE
6" SLEEVE	61-99 WIRES	3" PIPE
8" SLEEVE	100+ WIRES	4" PIPE
10" SLEEVE	N/A	6" PIPE



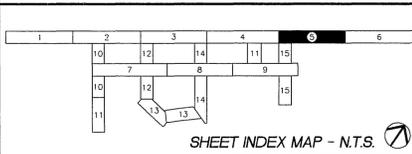
1/2" PIPE	1/2" PIPE
3/4" PIPE	3/4" PIPE
1" PIPE	1" PIPE
1 1/4" PIPE	1 1/4" PIPE
1 1/2" PIPE	1 1/2" PIPE
2" PIPE	2" PIPE
2 1/2" PIPE	2 1/2" PIPE
3" PIPE	3" PIPE
4" PIPE	4" PIPE
6" PIPE	6" PIPE

- SEE SHEET I-0 FOR IRRIGATION LEGENDS.
- SEE SHEET I-0 FOR GENERAL IRRIGATION NOTES.
- SEE SHEET I-0 FOR PROJECT SPECIFIC IRRIGATION NOTES.
- SEE SHEET I-16 FOR IRRIGATION DETAILS.



**\*\*NOTE\*\***  
 MAINLINE, LATERAL LINE, AND CONTROL WIRE SLEEVES ARE NOT SHOWN ON DRAWINGS. ALL LINES AND WIRES UNDER HARDSCAPE TO BE SLEEVED IN SCHEDULE 40 PVC SIZED PER SLEEVING CHART. ALL LINES AND WIRE ARE NOT TO BE LOCATED UNDER DISPLAY PADS (TYP.). ALL SLEEVE LOCATIONS TO BE APPROVED BY CITY INSPECTOR.

THESE TWO AREAS DO NOT HAVE NEW PLANTING. CONTRACTOR TO EVALUATE EXISTING IRRIGATION SYSTEM. IF NEW IRRIGATION IS NEEDED, INSTALL AS SHOWN HERE. OTHERWISE DO NOT INSTALL THESE HEADS HERE. ADJUST SYSTEMS AS NECESSARY.



**COMMUNITY WORKS DESIGN GROUP**

3750 University Avenue  
 Suite 175  
 Riverside, CA 92501  
 (909) 369-0700  
 Fax (909) 369-0700  
 e-mail: comworks@pe.net  
 http://www.pe.net/comworks

Underground Service Alert  
 Call: TOLL FREE  
 1 - 800  
 227 - 2600

TWO WORKING DAYS BEFORE YOU DIG

**PRIVATE ENGINEERING NOTE**

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

PREPARED UNDER THE DIRECTION OF:  
*[Signature]*  
 REGISTERED LANDSCAPE ARCHITECT NO. 210  
 EXPIRATION DATE: 11/13/99  
 APPROVED BY:

**CEG CANTY ENGINEERING GROUP, INC.**  
 CIVIL ENGINEERING - PLANNING - SURVEYING

3120 CHICAGO AVENUE, SUITE 180, P.O. BOX 52050, RIVERSIDE, CA 92517  
 TEL (909) 683 - 5234 FAX (909) 683 - 5301

SCALE: 1" = 20'-0"  
 BENCH MARK:  
 DATE: AUGUST, 1997

MARK	REVISIONS	APPR. DATE
DESIGNED BY	DRAWN BY	CHECKED BY

**CITY OF RIVERSIDE,**  
 DEPARTMENT OF PUBLIC WORKS

APPROVED BY: \_\_\_\_\_ BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 PARK DEPARTMENT  
 TRAFFIC DIVISION  
 CHIEF P.W. ENGR.

APPROVED BY: \_\_\_\_\_  
 DIRECTOR OF PUBLIC WORKS  
 DATE: \_\_\_\_\_

IN THE CITY OF RIVERSIDE, COUNTY OF RIVERSIDE  
 STATE OF CALIFORNIA  
 LANDSCAPE ARCHITECTURAL PLANS FOR  
**AUTO CENTER RENOVATION**  
 INDIANA AVENUE  
 IRRIGATION PLAN

PROJECT NO. R-3471  
 I-5  
 OF 20 SHEETS  
 FOR: RIVERSIDE AUTO CENTER ASSESSMENT DISTRICT  
 FILE NO.: 9613380

File W/R-3471

INDEXED 12-26-01 LFH



Matchline - See Sheet I-10

\*\*NOTE\*\*

MAINLINE, LATERAL LINE, AND CONTROL WIRE SLEEVES ARE NOT SHOWN ON DRAWINGS. ALL LINES AND WIRES UNDER HARDSCAPE TO BE SLEEVED IN SCHEDULE 40 PVC SIZED PER SLEEVING CHART. ALL LINES AND WIRE ARE NOT TO BE LOCATED UNDER DISPLAY PADS (TYP.). ALL SLEEVE LOCATIONS TO BE APPROVED BY CITY INSPECTOR.

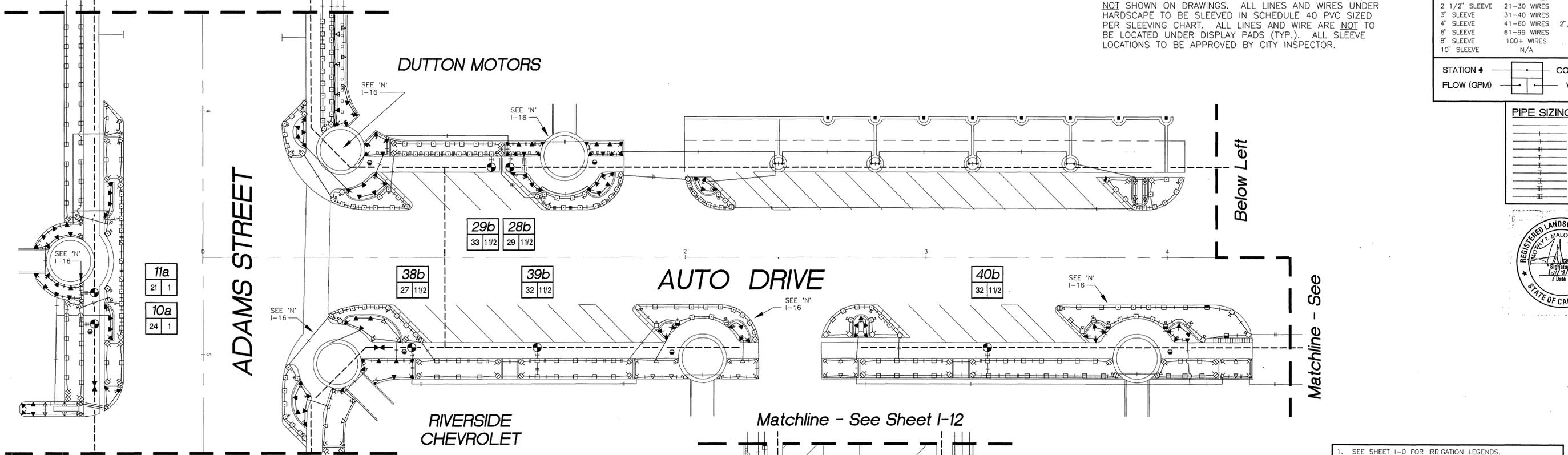
SCH 40 PVC SLEEVING CHART

1 1/4" SLEEVE	1-4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5-10 WIRES	3/4" PIPE
2" SLEEVE	11-20 WIRES	1" PIPE
2 1/2" SLEEVE	21-30 WIRES	1 1/4" PIPE
3" SLEEVE	31-40 WIRES	1 1/2" PIPE
4" SLEEVE	41-60 WIRES	2" PIPE
6" SLEEVE	61-99 WIRES	3" PIPE
8" SLEEVE	100+ WIRES	4" PIPE
10" SLEEVE	N/A	6" PIPE

STATION #	CONTROLLER
FLOW (GPM)	VALVE SIZE

PIPE SIZING CHART

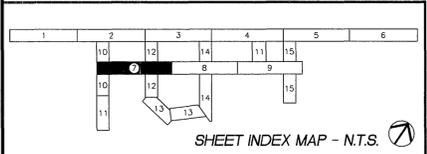
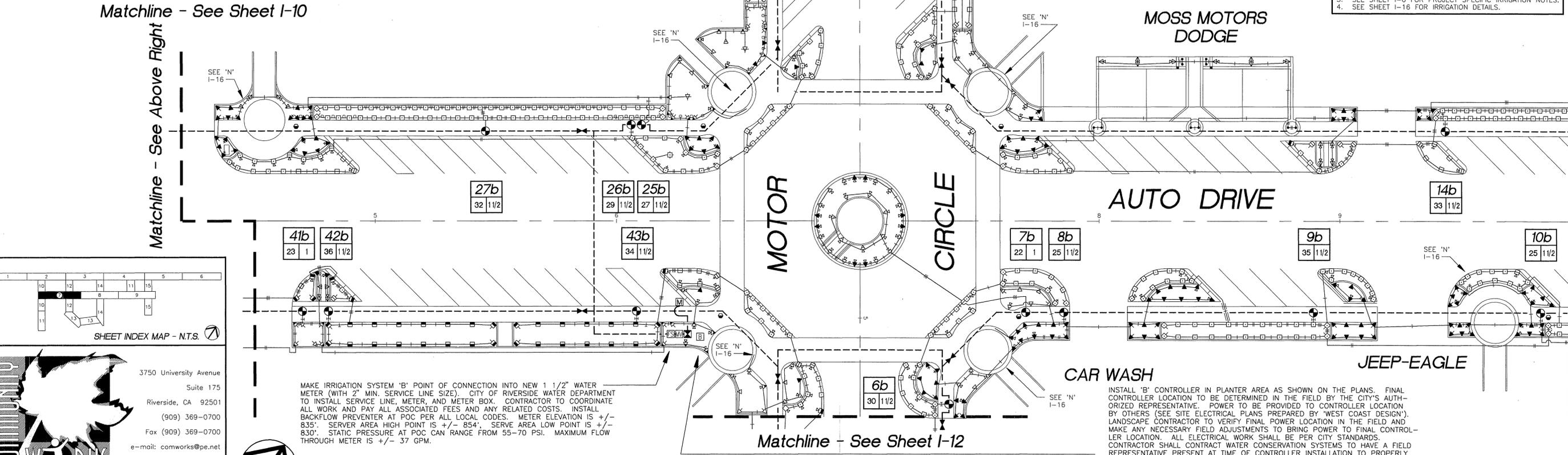
1/2" PIPE
3/4" PIPE
1" PIPE
1 1/4" PIPE
1 1/2" PIPE
2" PIPE
2 1/2" PIPE
3" PIPE
4" PIPE
6" PIPE



Matchline - See Sheet I-10

Matchline - See Sheet I-12

- SEE SHEET I-0 FOR IRRIGATION LEGENDS.
- SEE SHEET I-0 FOR GENERAL IRRIGATION NOTES.
- SEE SHEET I-0 FOR PROJECT SPECIFIC IRRIGATION NOTES.
- SEE SHEET I-16 FOR IRRIGATION DETAILS.



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Fax (909) 369-0700  
e-mail: comworks@pe.net  
http://www.pe.net/comworks

MAKE IRRIGATION SYSTEM 'B' POINT OF CONNECTION INTO NEW 1 1/2" WATER METER (WITH 2" MIN. SERVICE LINE SIZE). CITY OF RIVERSIDE WATER DEPARTMENT TO INSTALL SERVICE LINE, METER, AND METER BOX. CONTRACTOR TO COORDINATE ALL WORK AND PAY ALL ASSOCIATED FEES AND ANY RELATED COSTS. INSTALL BACKFLOW PREVENTER AT POC PER ALL LOCAL CODES. METER ELEVATION IS +/- 835'. SERVER AREA HIGH POINT IS +/- 854'. SERVE AREA LOW POINT IS +/- 830'. STATIC PRESSURE AT POC CAN RANGE FROM 55-70 PSI. MAXIMUM FLOW THROUGH METER IS +/- 37 GPM.

INSTALL 'B' CONTROLLER IN PLANTER AREA AS SHOWN ON THE PLANS. FINAL CONTROLLER LOCATION TO BE DETERMINED IN THE FIELD BY THE CITY'S AUTHORIZED REPRESENTATIVE. POWER TO BE PROVIDED TO CONTROLLER LOCATION BY OTHERS (SEE SITE ELECTRICAL PLANS PREPARED BY 'WEST COAST DESIGN'). LANDSCAPE CONTRACTOR TO VERIFY FINAL POWER LOCATION IN THE FIELD AND MAKE ANY NECESSARY FIELD ADJUSTMENTS TO BRING POWER TO FINAL CONTROLLER LOCATION. ALL ELECTRICAL WORK SHALL BE PER CITY STANDARDS. CONTRACTOR SHALL CONTRACT WATER CONSERVATION SYSTEMS TO HAVE A FIELD REPRESENTATIVE PRESENT AT TIME OF CONTROLLER INSTALLATION TO PROPERLY SET THE ET FACTOR. WIRE THE FLOW SENSOR AND MASTER VALVE TO THE CONTROLLER PER THE MANUFACTURER'S DIRECTIONS. WIRE, MOUNT, AND GROUND THE CONTROLLER PER THE MANUFACTURER'S DIRECTIONS. 'B' CONTROLLER TO BE A 44 STATION MODEL.

Underground Service Alert  
Call: TOLL FREE  
1 - 800  
227 - 2600  
TWO WORKING DAYS BEFORE YOU DIG

**PRIVATE ENGINEERING NOTE**  
CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY TO CONTRACTORS AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

PREPARED UNDER THE DIRECTION OF:  
*[Signature]*  
REGISTERED LANDSCAPE ARCHITECT NO. 7111  
EXPIRATION DATE: 10/13/99  
APPROVED BY:

**CEG** CANTY ENGINEERING GROUP, INC.  
CIVIL ENGINEERING - PLANNING - SURVEYING  
3120 CHICAGO AVENUE, SUITE 180, P.O. BOX 52050, RIVERSIDE, CA 92517  
TEL (909) 683 - 5234 FAX (909) 683 - 5301

SCALE: 1" = 20'-0" BENCH MARK:  
DATE: AUGUST, 1997

MARK	REVISIONS	APPR. DATE
DESIGNED BY	DRAWN BY	CHECKED BY

CITY OF RIVERSIDE, DEPARTMENT OF PUBLIC WORKS	
APPROVED BY	BY DATE
PRINCIPAL ENGR.	
PARK DEPARTMENT	DIRECTOR OF PUBLIC WORKS
TRAFFIC DIVISION	DATE
CHIEF P.ENGR.	

IN THE CITY OF RIVERSIDE, COUNTY OF RIVERSIDE  
STATE OF CALIFORNIA  
LANDSCAPE ARCHITECTURAL PLANS FOR  
AUTO CENTER RENOVATION  
AUTO DRIVE  
IRRIGATION PLAN  
FOR: RIVERSIDE AUTO CENTER ASSESSMENT DISTRICT

PROJECT NO. R-3471  
I-7  
OF 20 SHEETS  
FILE NO.: 9613380

File W/R-3471

INDEXED 12-26-01 lft

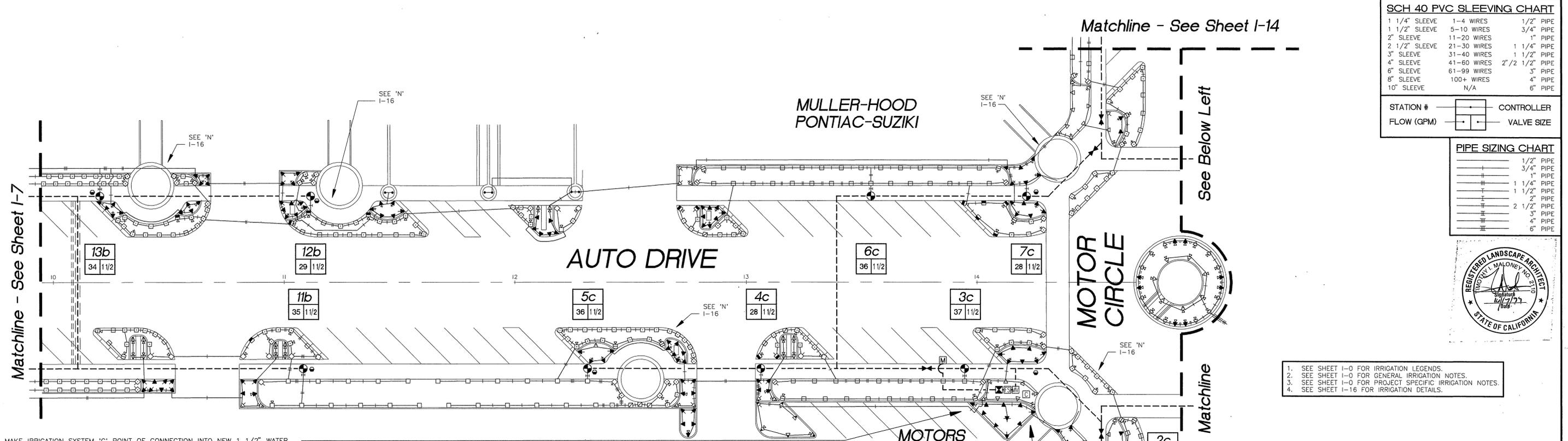
1 1/4" SLEEVE	1-4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5-10 WIRES	3/4" PIPE
2" SLEEVE	11-20 WIRES	1" PIPE
2 1/2" SLEEVE	21-30 WIRES	1 1/4" PIPE
3" SLEEVE	31-40 WIRES	1 1/2" PIPE
4" SLEEVE	41-60 WIRES	2" 1/2" PIPE
6" SLEEVE	61-99 WIRES	3" PIPE
8" SLEEVE	100+ WIRES	4" PIPE
10" SLEEVE	N/A	6" PIPE

STATION #	CONTROLLER
FLOW (GPM)	VALVE SIZE

1/2" PIPE
3/4" PIPE
1" PIPE
1 1/4" PIPE
1 1/2" PIPE
2" PIPE
2 1/2" PIPE
3" PIPE
4" PIPE
6" PIPE



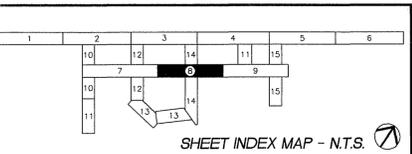
- SEE SHEET I-0 FOR IRRIGATION LEGENDS.
- SEE SHEET I-0 FOR GENERAL IRRIGATION NOTES.
- SEE SHEET I-0 FOR PROJECT SPECIFIC IRRIGATION NOTES.
- SEE SHEET I-16 FOR IRRIGATION DETAILS.



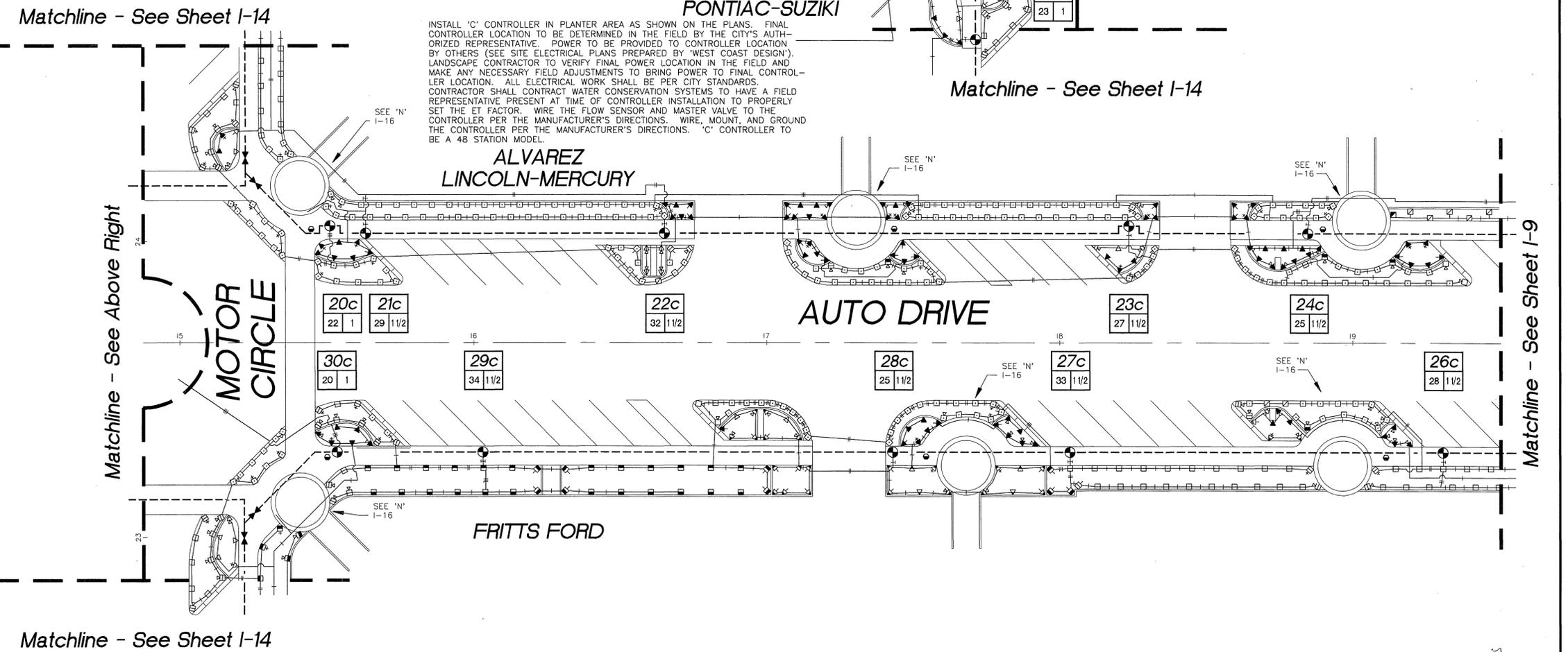
MAKE IRRIGATION SYSTEM 'C' POINT OF CONNECTION INTO NEW 1 1/2" WATER METER (WITH 2" MIN. SERVICE LINE SIZE). CITY OF RIVERSIDE WATER DEPARTMENT TO INSTALL SERVICE LINE, METER, AND METER BOX. CONTRACTOR TO COORDINATE ALL WORK AND PAY ALL ASSOCIATED FEES AND ANY RELATED COSTS. INSTALL BACKFLOW PREVENTER AT POC PER ALL LOCAL CODES. METER ELEVATION IS +/- 835'. SERVER AREA HIGH POINT IS +/- 854'. SERVE AREA LOW POINT IS +/- 830'. STATIC PRESSURE AT POC CAN RANGE FROM 55-70 PSI. MAXIMUM FLOW THROUGH METER IS +/- 36 GPM.

INSTALL 'C' CONTROLLER IN PLANTER AREA AS SHOWN ON THE PLANS. FINAL CONTROLLER LOCATION TO BE DETERMINED IN THE FIELD BY THE CITY'S AUTHORIZED REPRESENTATIVE. POWER TO BE PROVIDED TO CONTROLLER LOCATION BY OTHERS (SEE SITE ELECTRICAL PLANS PREPARED BY WEST COAST DESIGN). LANDSCAPE CONTRACTOR TO VERIFY FINAL POWER LOCATION IN THE FIELD AND MAKE ANY NECESSARY FIELD ADJUSTMENTS TO BRING POWER TO FINAL CONTROLLER LOCATION. ALL ELECTRICAL WORK SHALL BE PER CITY STANDARDS. CONTRACTOR SHALL CONTRACT WATER CONSERVATION SYSTEMS TO HAVE A FIELD REPRESENTATIVE PRESENT AT TIME OF CONTROLLER INSTALLATION TO PROPERLY SET THE ET FACTOR. WIRE THE FLOW SENSOR AND MASTER VALVE TO THE CONTROLLER PER THE MANUFACTURER'S DIRECTIONS. WIRE, MOUNT, AND GROUND THE CONTROLLER PER THE MANUFACTURER'S DIRECTIONS. 'C' CONTROLLER TO BE A 48 STATION MODEL.

**\*\*NOTE\*\***  
MAINLINE, LATERAL LINE, AND CONTROL WIRE SLEEVES ARE NOT SHOWN ON DRAWINGS. ALL LINES AND WIRES UNDER HARDSCAPE TO BE SLEEVED IN SCHEDULE 40 PVC SIZED PER SLEEVING CHART. ALL LINES AND WIRE ARE NOT TO BE LOCATED UNDER DISPLAY PADS (TYP.). ALL SLEEVE LOCATIONS TO BE APPROVED BY CITY INSPECTOR.



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227 - 2600  
TWO WORKING DAYS BEFORE YOU DIG

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PREPARED UNDER THE DIRECTION OF:  
REGISTERED LANDSCAPE ARCHITECT NO. 210  
EXPIRATION DATE: 10/31/99  
APPROVED BY:

**CEG** CANTY ENGINEERING GROUP, INC.  
CIVIL ENGINEERING - PLANNING - SURVEYING  
3120 CHICAGO AVENUE, SUITE 180, P.O. BOX 52050, RIVERSIDE, CA 92517  
TEL (909) 683 - 5234 FAX (909) 683 - 5301

SCALE: 1" = 20'-0"  
BENCH MARK:  
DATE: AUGUST, 1997

MARK	REVISIONS	APPR.	DATE
DESIGNED BY	DRAWN BY	CHECKED BY	

CITY OF RIVERSIDE,  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL ENGR.			DIRECTOR OF PUBLIC WORKS
PARK DEPARTMENT			
TRAFFIC DIVISION			
CHIEF P.W. ENGR.			DATE

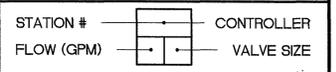
IN THE CITY OF RIVERSIDE, COUNTY OF RIVERSIDE  
STATE OF CALIFORNIA  
LANDSCAPE ARCHITECTURAL PLANS FOR  
AUTO CENTER RENOVATION  
AUTO DRIVE  
IRRIGATION PLAN

PROJECT NO. R-3471  
I-8  
OF 20 SHEETS  
FOR: RIVERSIDE AUTO CENTER ASSESSMENT DISTRICT  
FILE NO.: 9613380

File W/R-3471

INDEXED 12-26-01 LPA

1 1/4" SLEEVE	1-4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5-10 WIRES	3/4" PIPE
2" SLEEVE	11-20 WIRES	1" PIPE
2 1/2" SLEEVE	21-30 WIRES	1 1/4" PIPE
3" SLEEVE	31-40 WIRES	1 1/2" PIPE
4" SLEEVE	41-60 WIRES	2" PIPE
6" SLEEVE	61-99 WIRES	3" PIPE
8" SLEEVE	100+ WIRES	4" PIPE
10" SLEEVE	N/A	6" PIPE

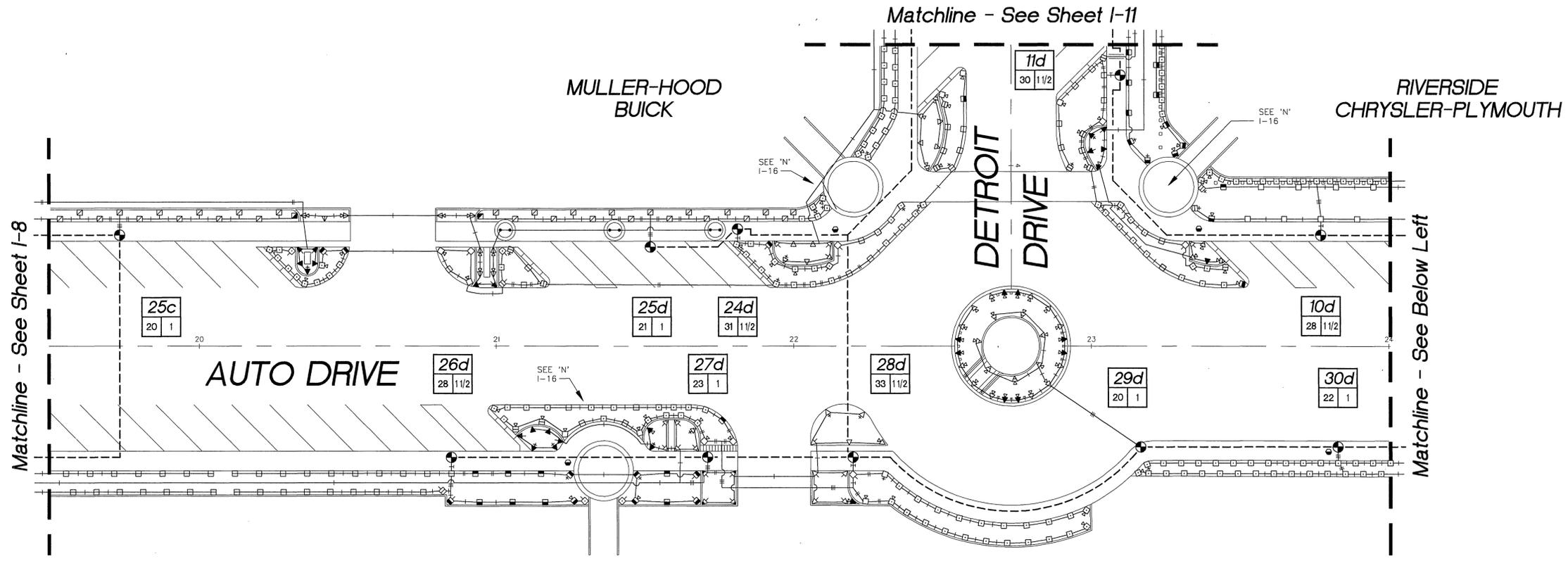


1/2" PIPE	1/2" PIPE
3/4" PIPE	3/4" PIPE
1" PIPE	1" PIPE
1 1/4" PIPE	1 1/4" PIPE
1 1/2" PIPE	1 1/2" PIPE
2" PIPE	2" PIPE
2 1/2" PIPE	2 1/2" PIPE
3" PIPE	3" PIPE
4" PIPE	4" PIPE
6" PIPE	6" PIPE



CONTRACTOR TO ADJUST EXISTING IRRIGATION HEAD LAYOUT IN THIS AREA TO REFLECT NEW PLANTER LOCATION. INSTALL NEW SHRUB HEADS AS SHOWN AND CONNECT TO EXISTING SHRUB VALVE (VERIFY EXACT LOCATION IN THE FIELD). INSTALL NEW TURF HEADS ADJACENT TO NEW STEPS / SHRUB AREAS AND CONNECT TO EXISTING TURF SYSTEMS. ANY EXISTING HEADS IN THIS AREA ARE TO BE REMOVED. INSTALL ALL NEW EQUIPMENT AS SHOWN. CONTRACTOR TO ADJUST, ADD AND/OR RELOCATE HEADS AS DETERMINED NECESSARY IN THE FIELD TO PROVIDE 100% COVERAGE TO ALL PLANTED AREAS WITH MINIMAL OVERSPRAY OF HARD SURFACES. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS IN THE FIELD.

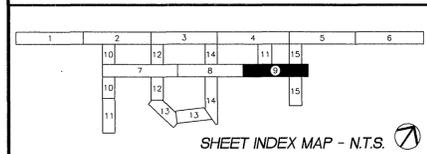
1. SEE SHEET I-0 FOR IRRIGATION LEGENDS.
2. SEE SHEET I-0 FOR GENERAL IRRIGATION NOTES.
3. SEE SHEET I-0 FOR PROJECT SPECIFIC IRRIGATION NOTES.
4. SEE SHEET I-16 FOR IRRIGATION DETAILS.



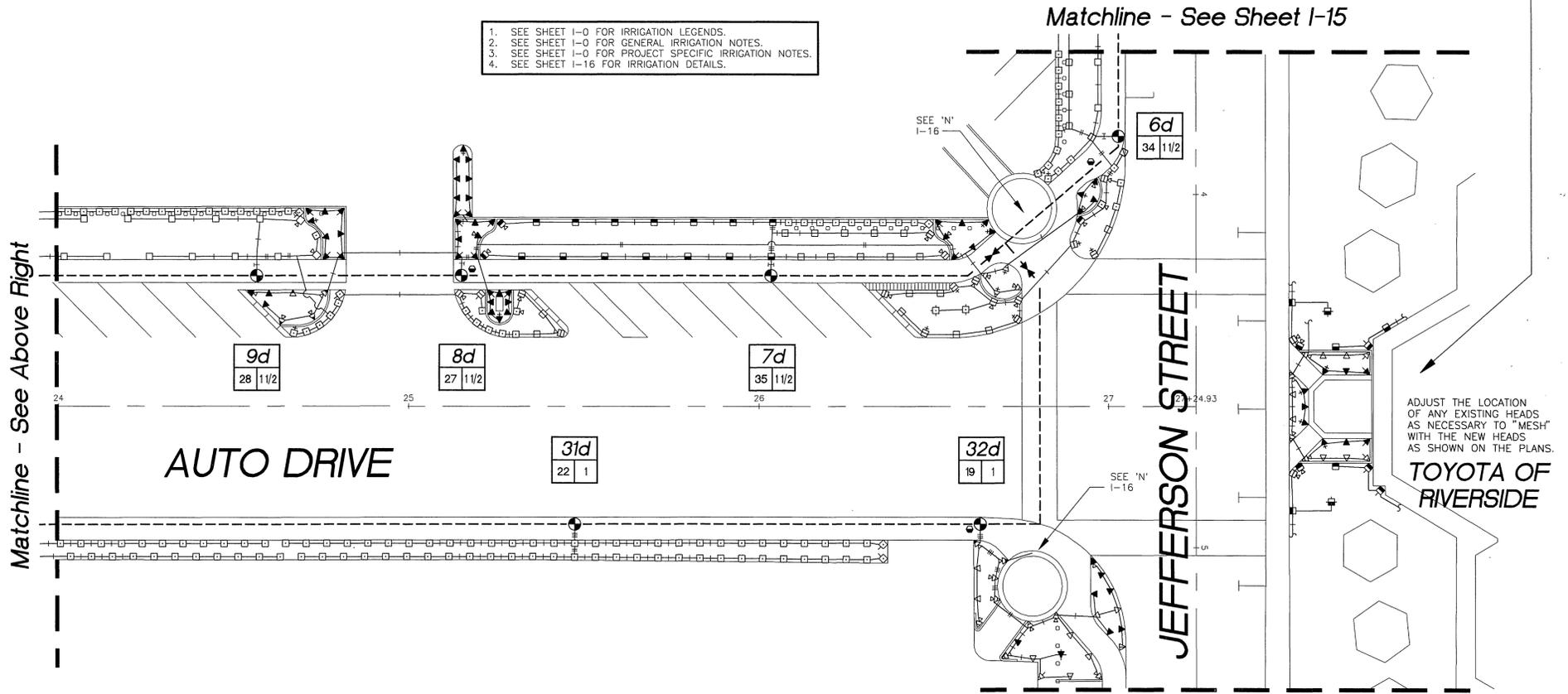
Matchline - See Sheet I-8

Matchline - See Below Left

**\*\*NOTE\*\***  
MAINLINE, LATERAL LINE, AND CONTROL WIRE SLEEVES ARE NOT SHOWN ON DRAWINGS. ALL LINES AND WIRES UNDER HARDSCAPE TO BE SLEEVED IN SCHEDULE 40 PVC SIZED PER SLEEVING CHART. ALL LINES AND WIRE ARE NOT TO BE LOCATED UNDER DISPLAY PADS (TYP.). ALL SLEEVE LOCATIONS TO BE APPROVED BY CITY INSPECTOR.



3750 University Avenue  
Suite 175  
Riverside, CA 92501  
(909) 369-0700  
Fax (909) 369-0700  
e-mail: comworks@pe.net  
http://www.pe.net/comworks



Matchline - See Above Right

Matchline - See Sheet I-15

Matchline - See Sheet I-15

ADJUST THE LOCATION OF ANY EXISTING HEADS AS NECESSARY TO "MESH" WITH THE NEW HEADS AS SHOWN ON THE PLANS.

Underground Service Alert  
Call: TOLL FREE  
1 - 800  
227 - 2600  
TWO WORKING DAYS BEFORE YOU DIG

**PRIVATE ENGINEERING NOTE**  
CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE RESPONSIBLE TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINGENTLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

PREPARED UNDER THE DIRECTION OF:  
*[Signature]*  
REGISTERED LANDSCAPE ARCHITECT NO. 2110  
EXPIRATION DATE: 10/2/99  
APPROVED BY:

**CEG** CANTY ENGINEERING GROUP, INC.  
CIVIL ENGINEERING - PLANNING - SURVEYING  
3120 CHICAGO AVENUE, SUITE 180, P.O. BOX 52050, RIVERSIDE, CA 92517  
TEL (909) 683 - 5234 FAX (909) 683 - 5301

SCALE: 1" = 20'-0"  
BENCH MARK:  
DATE: AUGUST, 1997

MARK	REVISIONS	APPR.	DATE
DESIGNED BY	DRAWN BY	CHECKED BY	

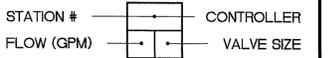
CITY OF RIVERSIDE,  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: BY DATE APPROVED BY  
PRINCIPAL ENGR. PARK DEPARTMENT DIRECTOR OF PUBLIC WORKS  
TRAFFIC DIVISION CHIEF P. ENGR. DATE

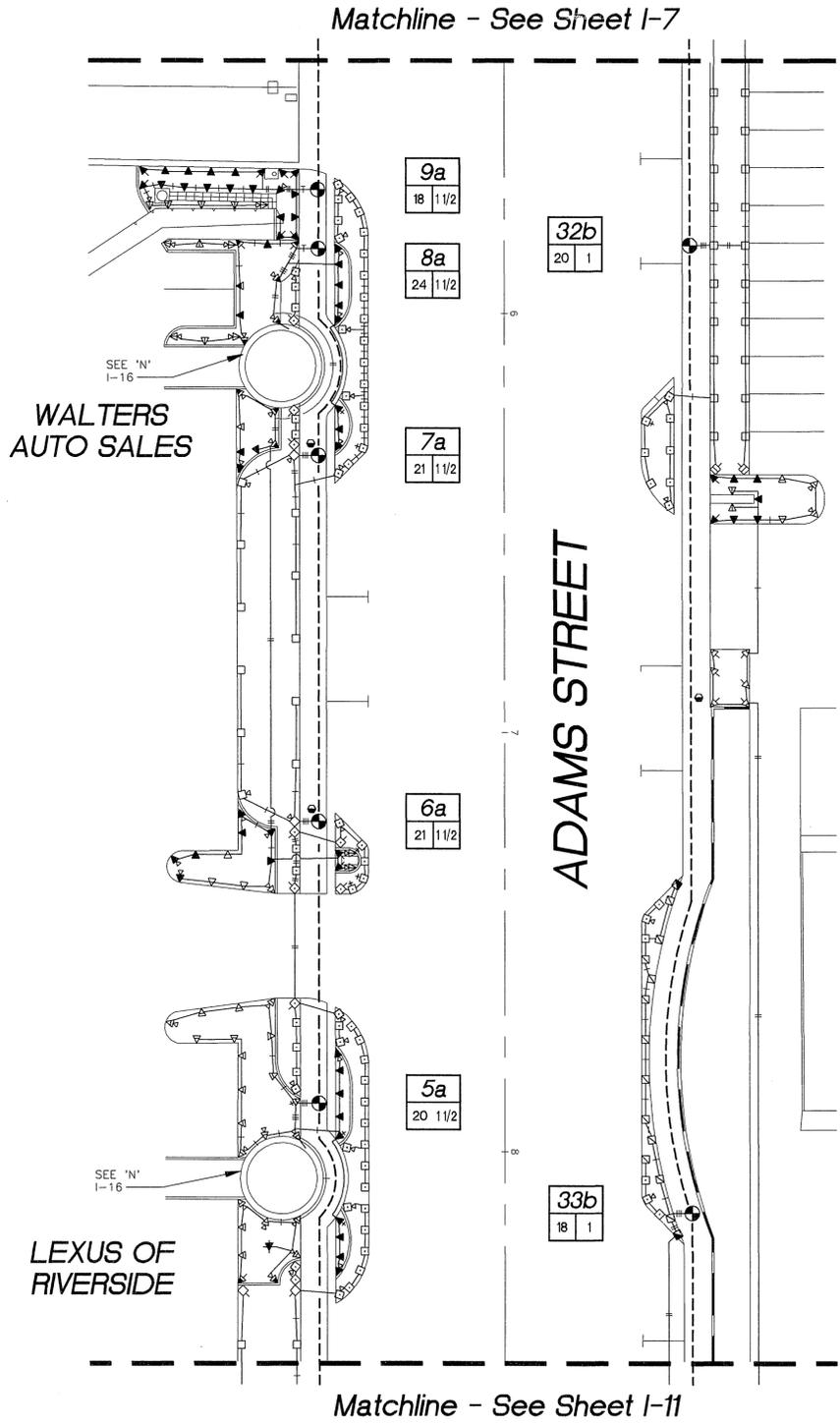
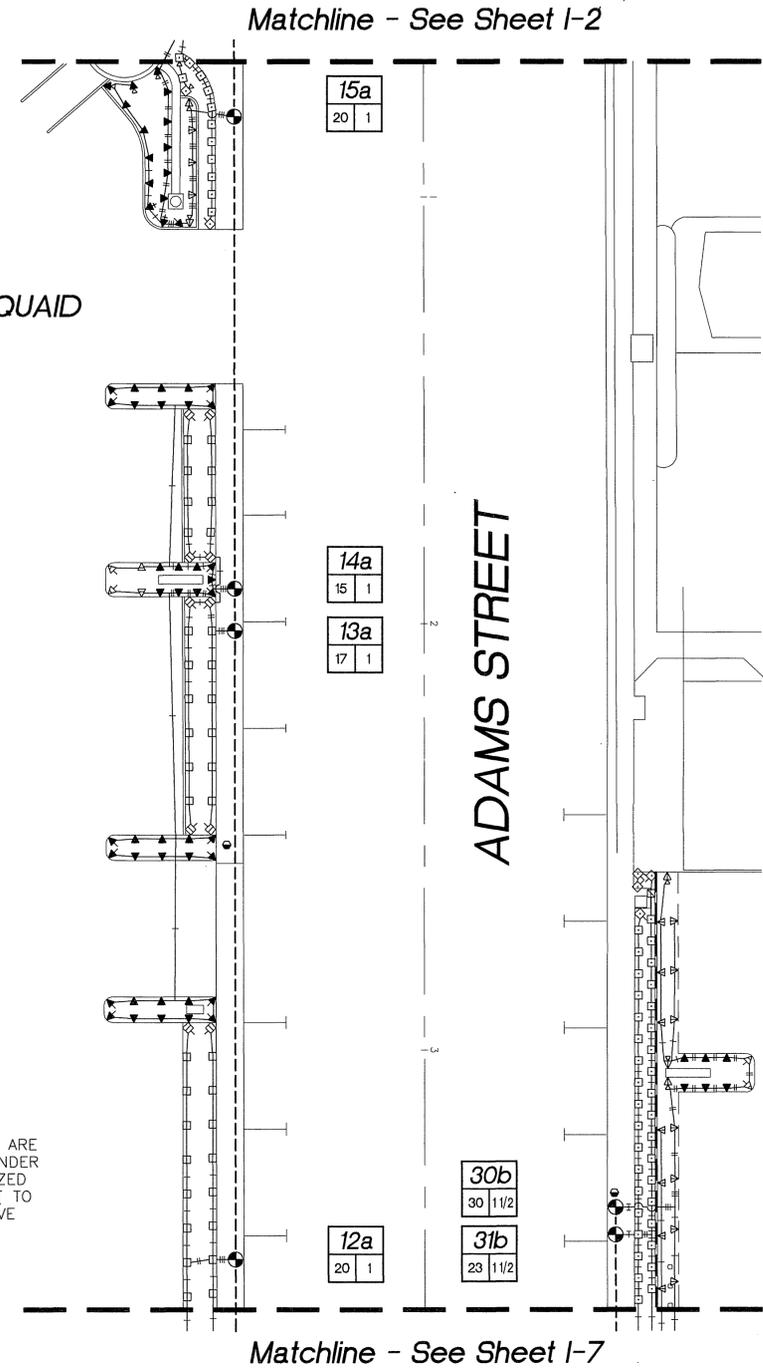
IN THE CITY OF RIVERSIDE, COUNTY OF RIVERSIDE STATE OF CALIFORNIA  
LANDSCAPE ARCHITECTURAL PLANS FOR  
AUTO CENTER RENOVATION  
AUTO DRIVE  
IRRIGATION PLAN  
FOR: RIVERSIDE AUTO CENTER ASSESSMENT DISTRICT

PROJECT NO. R-3471  
I-9  
OF 20 SHEETS  
FILE NO.: 9613380

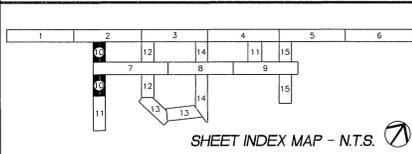
SCH 40 PVC SLEEVING CHART		
1 1/4" SLEEVE	1-4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5-10 WIRES	3/4" PIPE
2" SLEEVE	11-20 WIRES	1" PIPE
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3" SLEEVE	31-40 WIRES	1 1/2" PIPE
4" SLEEVE	41-60 WIRES	2" PIPE
6" SLEEVE	61-99 WIRES	3" PIPE
8" SLEEVE	100+ WIRES	4" PIPE
10" SLEEVE	N/A	6" PIPE



PIPE SIZING CHART	
[Symbol]	1/2" PIPE
[Symbol]	3/4" PIPE
[Symbol]	1" PIPE
[Symbol]	1 1/4" PIPE
[Symbol]	1 1/2" PIPE
[Symbol]	2" PIPE
[Symbol]	2 1/2" PIPE
[Symbol]	3" PIPE
[Symbol]	4" PIPE
[Symbol]	6" PIPE



**\*\*NOTE\*\***  
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**COMWORKS DESIGN GROUP**  
 3750 University Avenue  
 Suite 175  
 Riverside, CA 92501  
 (909) 369-0700  
 Fax (909) 369-0700  
 e-mail: comworks@pe.net  
 http://www.pe.net/comworks

- SEE SHEET I-0 FOR IRRIGATION LEGENDS.
- SEE SHEET I-0 FOR GENERAL IRRIGATION NOTES.
- SEE SHEET I-0 FOR PROJECT SPECIFIC IRRIGATION NOTES.
- SEE SHEET I-16 FOR IRRIGATION DETAILS.

Underground Service Alert Call: TOLL FREE 1 - 800 227 - 2600 TWO WORKING DAYS BEFORE YOU DIG	<b>PRIVATE ENGINEERING NOTE</b> CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.	PREPARED UNDER THE DIRECTION OF: 	<b>CEG CANTY ENGINEERING GROUP, INC.</b> CIVIL ENGINEERING - PLANNING - SURVEYING 3120 CHICAGO AVENUE, SUITE 180, P.O. BOX 52050, RIVERSIDE, CA 92517 TEL (909) 683 - 5234 FAX (909) 683 - 5301	APPROVED BY: _____ BY: _____ DATE: _____ PRINCIPAL ENGR. PARK DEPARTMENT TRAFFIC DIVISION CHIEF P.W. ENGR.	APPROVED BY: _____ BY: _____ DATE: _____ DIRECTOR OF PUBLIC WORKS	IN THE CITY OF RIVERSIDE, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA LANDSCAPE ARCHITECTURAL PLANS FOR <b>AUTO CENTER RENOVATION</b> ADAMS STREET IRRIGATION PLAN	PROJECT NO. R-3471 <b>I-10</b> OF 20 SHEETS
		REGISTERED LANDSCAPE ARCHITECT NO. 2111 EXPIRATION DATE: 10/31/99 APPROVED BY: _____					

File w/R-3471

INDEXED 12-26-01 4H

THE LEXUS AND MERCEDES DEALER'S HAVE EXISTING LANDSCAPE AND IRRIGATION IN THESE AREAS. CONTRACTOR SHALL RETROFIT THE EXISTING SYSTEMS, AS DETERMINED NECESSARY, IN THE FIELD TO CONNECT TO THE NEW SYSTEM. THE NEW IRRIGATION SHOWN ON THIS PLAN CAN BE DISREGARDED IF THE EXISTING SYSTEMS ARE CONNECTED TO THIS NEW SYSTEM.

LEXUS OF RIVERSIDE

1 1/4" SLEEVE	1-4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5-10 WIRES	3/4" PIPE
2" SLEEVE	11-20 WIRES	1" PIPE
2 1/2" SLEEVE	21-30 WIRES	1 1/4" PIPE
3" SLEEVE	31-40 WIRES	1 1/2" PIPE
4" SLEEVE	41-60 WIRES	2" PIPE
6" SLEEVE	61-99 WIRES	3" PIPE
8" SLEEVE	100+ WIRES	4" PIPE
10" SLEEVE	N/A	6" PIPE

STATION #	CONTROLLER
FLOW (GPM)	VALVE SIZE

1/2" PIPE
3/4" PIPE
1" PIPE
1 1/4" PIPE
1 1/2" PIPE
2" PIPE
2 1/2" PIPE
3" PIPE
4" PIPE
6" PIPE



Limit of Work

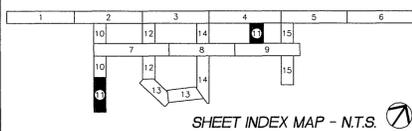
Matchline - See Sheet I-10

ADAMS STREET

RIVERSIDE CHEVROLET/GEN

- SEE SHEET I-0 FOR IRRIGATION LEGENDS.
- SEE SHEET I-0 FOR GENERAL IRRIGATION NOTES.
- SEE SHEET I-0 FOR PROJECT SPECIFIC IRRIGATION NOTES.
- SEE SHEET I-16 FOR IRRIGATION DETAILS.

**\*\*NOTE\*\***  
 MAINLINE, LATERAL LINE, AND CONTROL WIRE SLEEVES ARE NOT SHOWN ON DRAWINGS. ALL LINES AND WIRES UNDER HARDSCAPE TO BE SLEEVED IN SCHEDULE 40 PVC SIZED PER SLEEVING CHART. ALL LINES AND WIRE ARE NOT TO BE LOCATED UNDER DISPLAY PADS (TYP.). ALL SLEEVE LOCATIONS TO BE APPROVED BY CITY INSPECTOR.



**COMWORKS DESIGN GROUP**

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 Riverside, CA 92501  
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 Fax (909) 369-0700  
 e-mail: comworks@pe.net  
 http://www.pe.net/comworks

MULLER-HOOD BUICK

Matchline - See Sheet I-9

Matchline - See Sheet I-4

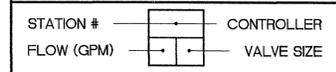
DETROIT DRIVE

RIVERSIDE CHRYSLER-PLYMOUTH

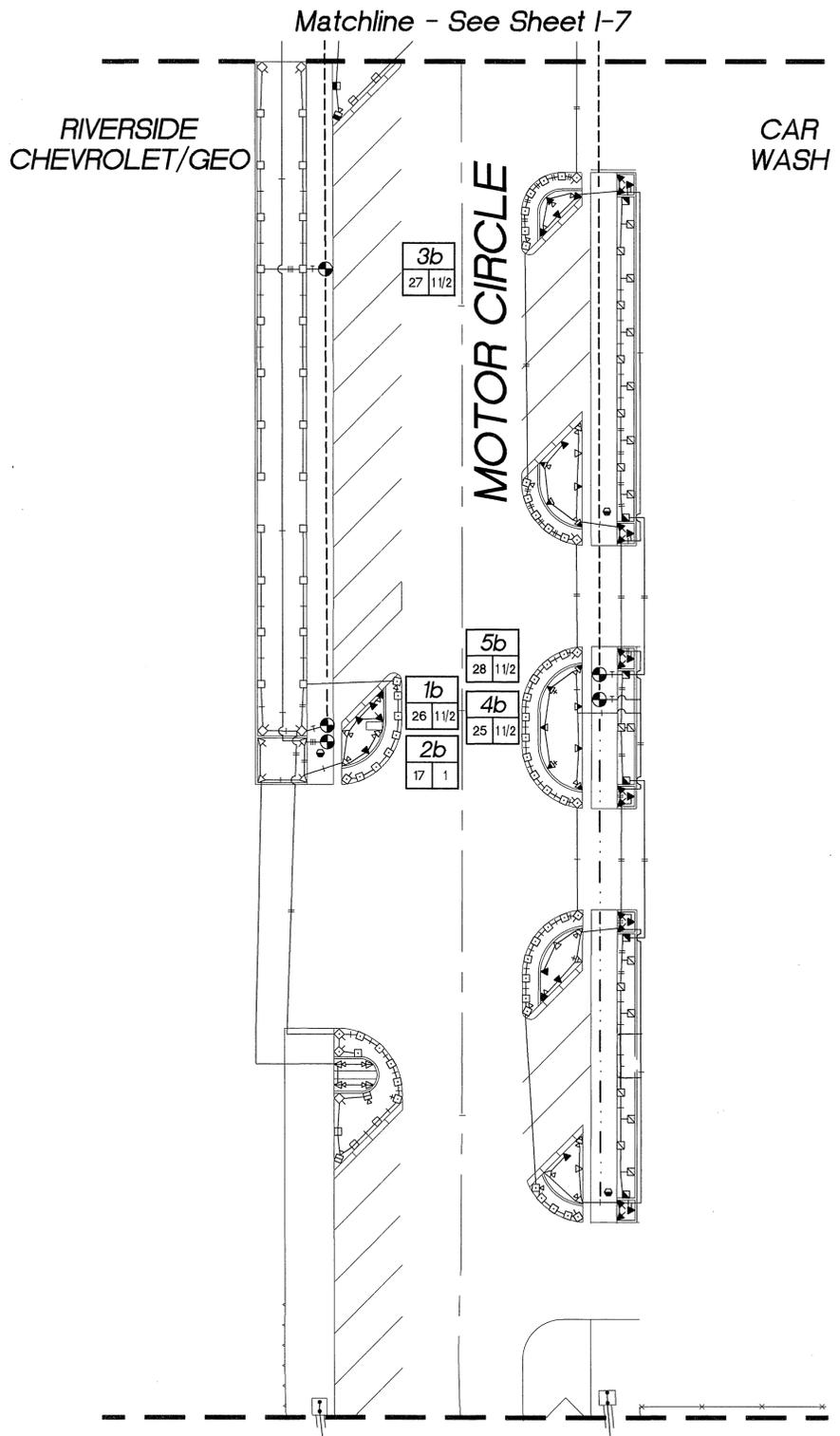
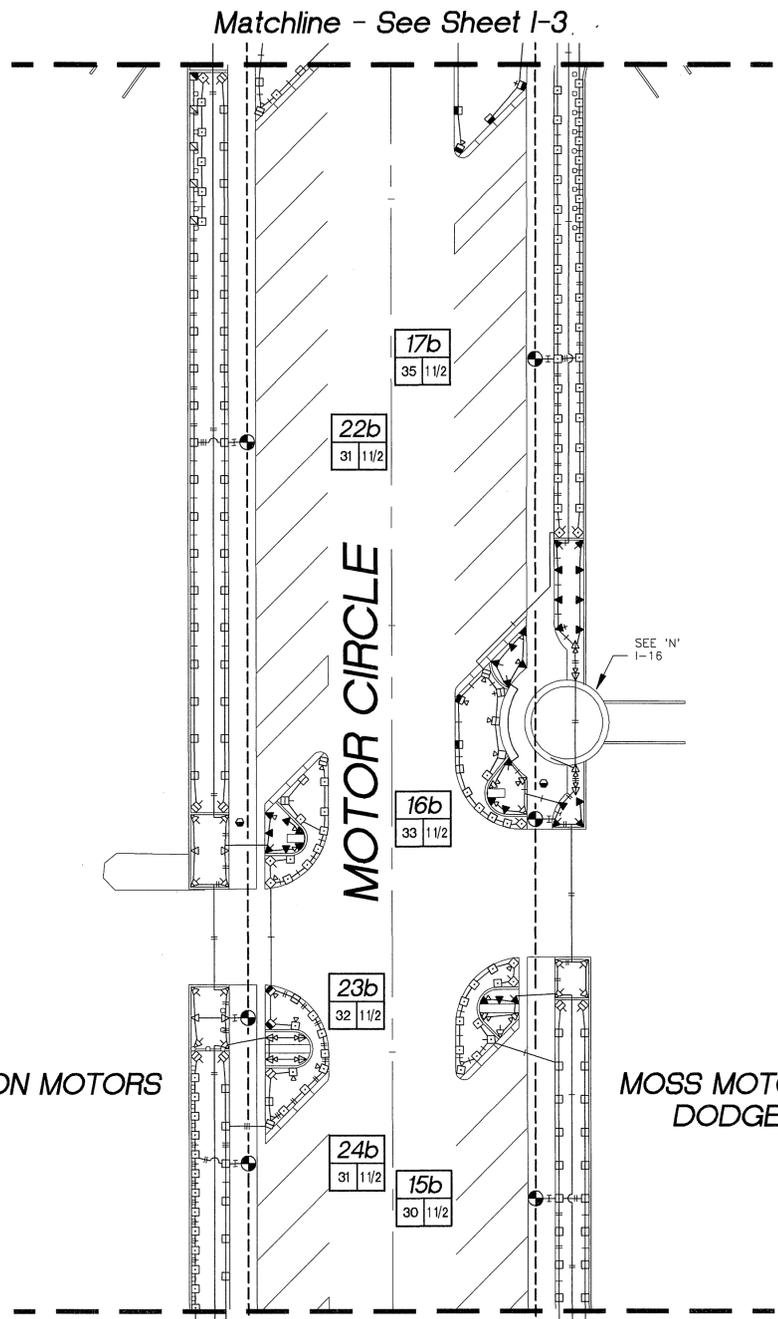
File W/R-3471

<p>Underground Service Alert          Call: TOLL FREE          1 - 800          227 - 2600</p> <p>TWO WORKING DAYS BEFORE YOU DIG</p>	<p><b>PRIVATE ENGINEERING NOTE</b></p> <p>CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.</p>	<p>PREPARED UNDER THE DIRECTION OF:  </p> <p>REGISTERED LANDSCAPE ARCHITECT NO. 210          EXPIRATION DATE: 10/1/99</p> <p>APPROVED BY:</p>	<p><b>CEG</b> CANTY ENGINEERING GROUP, INC.          CIVIL ENGINEERING - PLANNING - SURVEYING          3120 CHICAGO AVENUE, SUITE 180, P.O. BOX 52050, RIVERSIDE, CA 92517          TEL (909) 683 - 5234 FAX (909) 683 - 5301</p> <p>SCALE: 1" = 20'-0" BENCH MARK:          DATE: AUGUST, 1997</p>	<p>MARK REVISIONS APPR. DATE          DESIGNED BY _____ DRAWN BY _____ CHECKED BY _____</p>	<p>CITY OF RIVERSIDE,          DEPARTMENT OF PUBLIC WORKS</p> <p>APPROVED BY: _____ BY DATE: _____          PRINCIPAL ENGR. _____          PARK DEPARTMENT _____          TRAFFIC DIVISION _____          CHIEF P.W. ENGR. _____</p>	<p>IN THE CITY OF RIVERSIDE, COUNTY OF RIVERSIDE          STATE OF CALIFORNIA</p> <p>LANDSCAPE ARCHITECTURAL PLANS FOR          AUTO CENTER RENOVATION          ADAMS STREET          DETROIT DRIVE          IRRIGATION PLAN</p> <p>FOR: RIVERSIDE AUTO CENTER ASSESSMENT DISTRICT</p>	<p>PROJECT NO. R-3471</p> <p>I-11          OF 20 SHEETS</p> <p>FILE NO.: 9613380</p>
					<p>APPROVED BY: _____ DATE: _____          DIRECTOR OF PUBLIC WORKS</p>	<p>INDEXED 12-26-01 gth</p>	

1 1/4" SLEEVE	1-4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5-10 WIRES	3/4" PIPE
2" SLEEVE	11-20 WIRES	1" PIPE
2 1/2" SLEEVE	21-30 WIRES	1 1/4" PIPE
3" SLEEVE	31-40 WIRES	1 1/2" PIPE
4" SLEEVE	41-60 WIRES	2" PIPE
6" SLEEVE	61-99 WIRES	3" PIPE
8" SLEEVE	100+ WIRES	4" PIPE
10" SLEEVE	N/A	6" PIPE

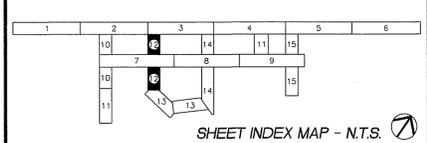


[Symbol]	1/2" PIPE
[Symbol]	3/4" PIPE
[Symbol]	1" PIPE
[Symbol]	1 1/4" PIPE
[Symbol]	1 1/2" PIPE
[Symbol]	2" PIPE
[Symbol]	2 1/2" PIPE
[Symbol]	3" PIPE
[Symbol]	4" PIPE
[Symbol]	6" PIPE



- SEE SHEET I-0 FOR IRRIGATION LEGENDS.
- SEE SHEET I-0 FOR GENERAL IRRIGATION NOTES.
- SEE SHEET I-0 FOR PROJECT SPECIFIC IRRIGATION NOTES.
- SEE SHEET I-16 FOR IRRIGATION DETAILS.

**\*\*NOTE\*\***  
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**PRIVATE ENGINEERING NOTE**  
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PREPARED UNDER THE DIRECTION OF:  
 REGISTERED LANDSCAPE ARCHITECT NO. 2100  
 EXPIRATION DATE: 11/15/99  
 APPROVED BY:

**CEG CANTY ENGINEERING GROUP, INC.**  
 CIVIL ENGINEERING - PLANNING - SURVEYING  
 3120 CHICAGO AVENUE, SUITE 180, P.O. BOX 52050, RIVERSIDE, CA 92517  
 TEL (909) 683 - 5234 FAX (909) 683 - 5301  
 SCALE: 1" = 20'-0"  
 BENCH MARK:  
 DATE: AUGUST, 1997

MARK	REVISIONS	APPR. DATE
DESIGNED BY	DRAWN BY	CHECKED BY

**CITY OF RIVERSIDE,**  
 DEPARTMENT OF PUBLIC WORKS  
 APPROVED BY [Signature] BY [Signature] DATE [Date]  
 TRAFFIC DIVISION  
 CHIEF P.W. ENGR.  
 APPROVED BY [Signature] DATE [Date]  
 DIRECTOR OF PUBLIC WORKS

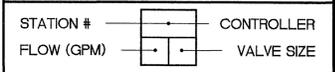
IN THE CITY OF RIVERSIDE, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA  
 LANDSCAPE ARCHITECTURAL PLANS FOR  
 AUTO CENTER RENOVATION  
 MOTOR CIRCLE  
 IRRIGATION PLAN  
 FOR: RIVERSIDE AUTO CENTER ASSESSMENT DISTRICT

PROJECT NO. R-3471  
 1-12 OF 20 SHEETS  
 FILE NO.: 9613380

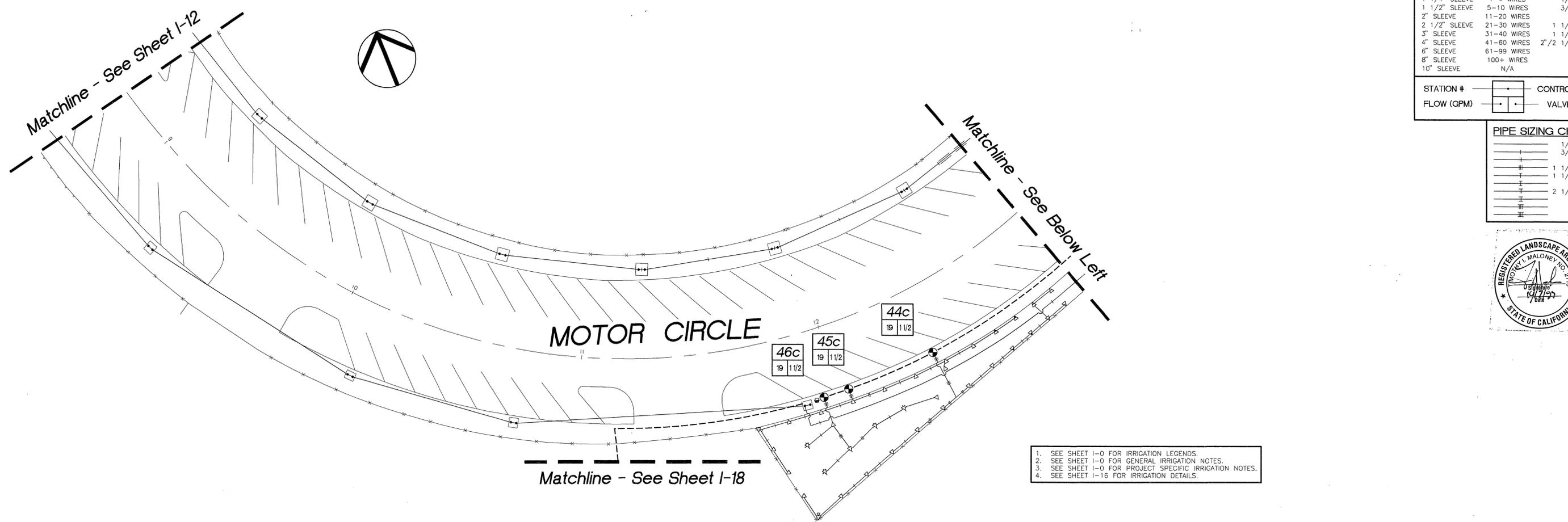
FILE W/R-3471

INDEXED 12-26-01 LHH

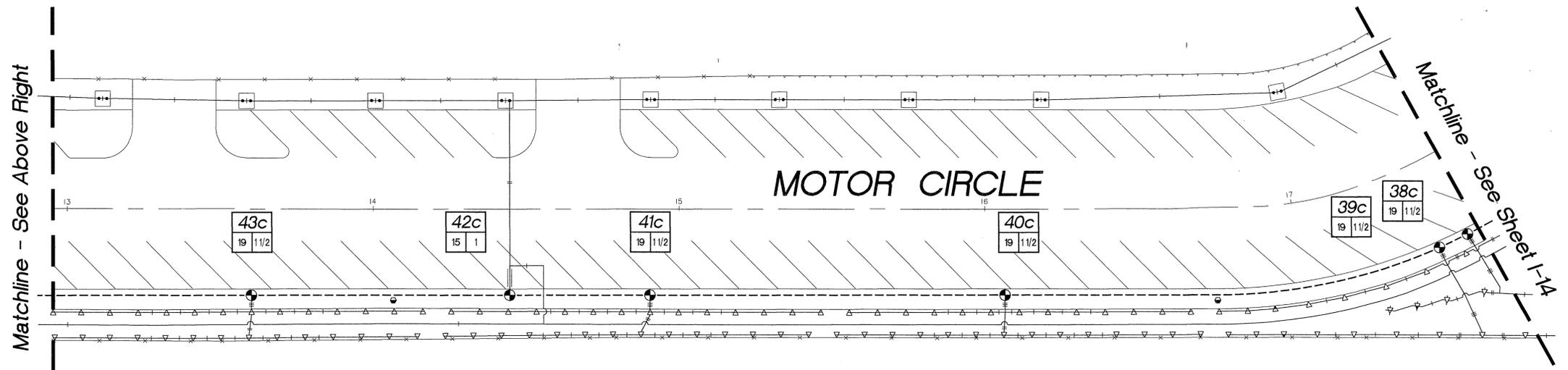
1 1/4" SLEEVE	1-4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5-10 WIRES	3/4" PIPE
2" SLEEVE	11-20 WIRES	1" PIPE
2 1/2" SLEEVE	21-30 WIRES	1 1/4" PIPE
3" SLEEVE	31-40 WIRES	1 1/2" PIPE
4" SLEEVE	41-60 WIRES	2" PIPE
6" SLEEVE	61-99 WIRES	3" PIPE
8" SLEEVE	100+ WIRES	4" PIPE
10" SLEEVE	N/A	6" PIPE



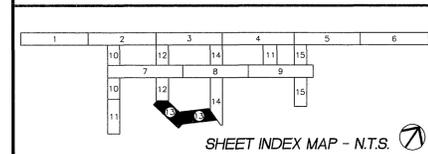
1/2" PIPE	1/2" PIPE
3/4" PIPE	3/4" PIPE
1" PIPE	1" PIPE
1 1/4" PIPE	1 1/4" PIPE
1 1/2" PIPE	1 1/2" PIPE
2" PIPE	2" PIPE
2 1/2" PIPE	2 1/2" PIPE
3" PIPE	3" PIPE
4" PIPE	4" PIPE
6" PIPE	6" PIPE



1. SEE SHEET I-0 FOR IRRIGATION LEGENDS.
2. SEE SHEET I-0 FOR GENERAL IRRIGATION NOTES.
3. SEE SHEET I-0 FOR PROJECT SPECIFIC IRRIGATION NOTES.
4. SEE SHEET I-16 FOR IRRIGATION DETAILS.



**\*\*NOTE\*\***  
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**COMMUNITY WORKS DESIGN GROUP**

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http://www.pe.net/comworks

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PREPARED UNDER THE DIRECTION OF:  
REGISTERED LANDSCAPE ARCHITECT NO. 2160  
EXPIRATION DATE: 12/31/98  
APPROVED BY:

**CEG CANTY ENGINEERING GROUP, INC.**  
CIVIL ENGINEERING - PLANNING - SURVEYING  
3120 CHICAGO AVENUE, SUITE 180, P.O. BOX 52050, RIVERSIDE, CA 92517  
TEL (909) 683 - 5234 FAX (909) 683 - 5301

SCALE: 1" = 20'-0"  
DATE: AUGUST, 1997

MARK	REVISIONS	APPR.	DATE

DESIGNED BY:      DRAWN BY:      CHECKED BY:      BENCH MARK:

**CITY OF RIVERSIDE,**  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL ENGR.			DIRECTOR OF PUBLIC WORKS
PARK DEPARTMENT			
TRAFFIC DIVISION			
CHIEF P.W. ENGR.			

IN THE CITY OF RIVERSIDE, COUNTY OF RIVERSIDE  
STATE OF CALIFORNIA  
LANDSCAPE ARCHITECTURAL PLANS FOR  
AUTO CENTER RENOVATION  
MOTOR CIRCLE  
IRRIGATION PLAN

PROJECT NO. R-3471  
I-13  
OF 20 SHEETS  
FOR: RIVERSIDE AUTO CENTER ASSESSMENT DISTRICT  
FILE NO.: 9613380

File W/R-3471

INDEXED 12-26-01 LHM



SCH 40 PVC SLEEVING CHART		
1 1/4" SLEEVE	1-4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5-10 WIRES	3/4" PIPE
2" SLEEVE	11-20 WIRES	1" PIPE
2 1/2" SLEEVE	21-30 WIRES	1 1/4" PIPE
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4" SLEEVE	41-60 WIRES	2" 1/2" PIPE
6" SLEEVE	61-99 WIRES	3" PIPE
8" SLEEVE	100+ WIRES	4" PIPE
10" SLEEVE	N/A	6" PIPE

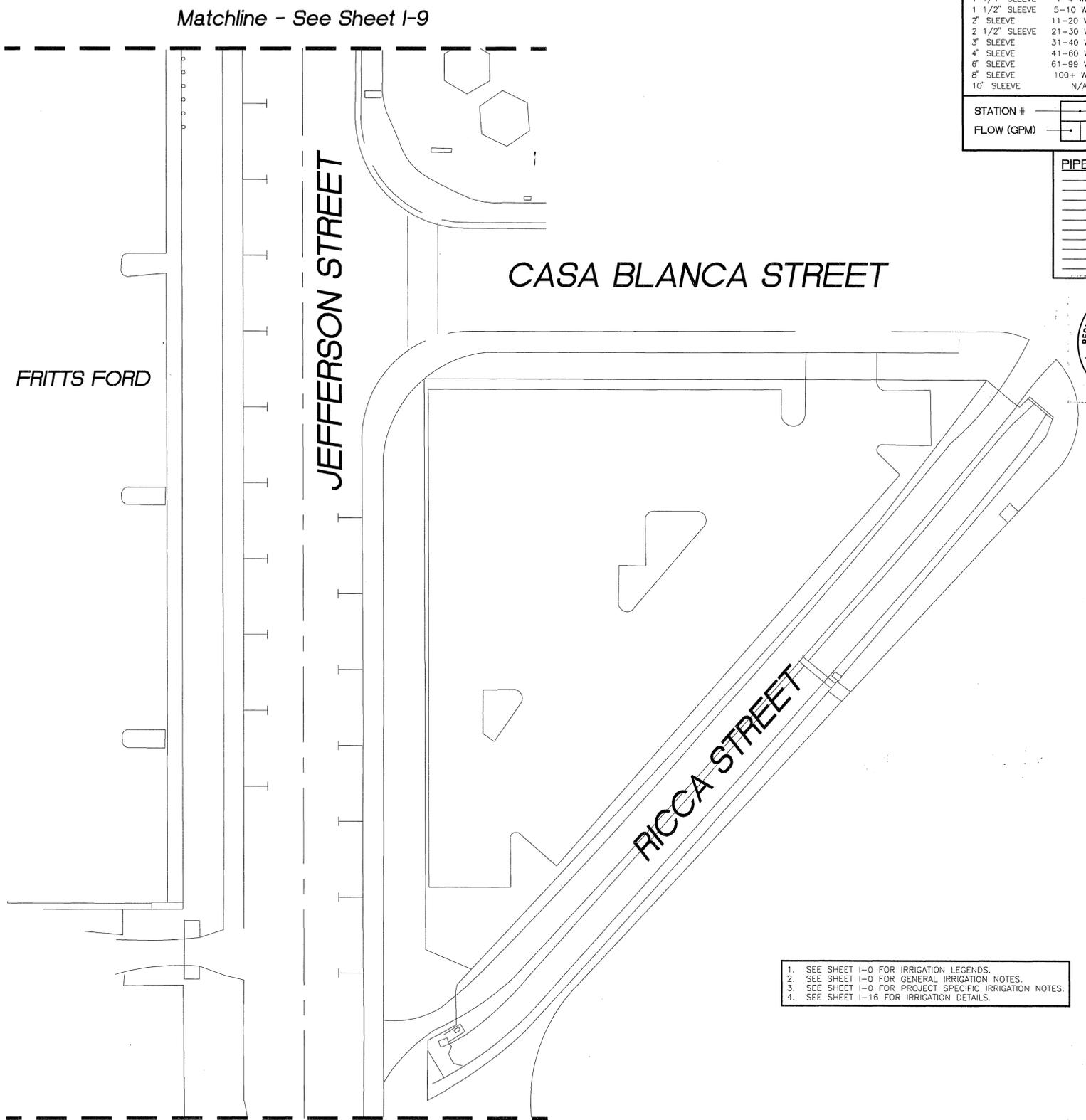
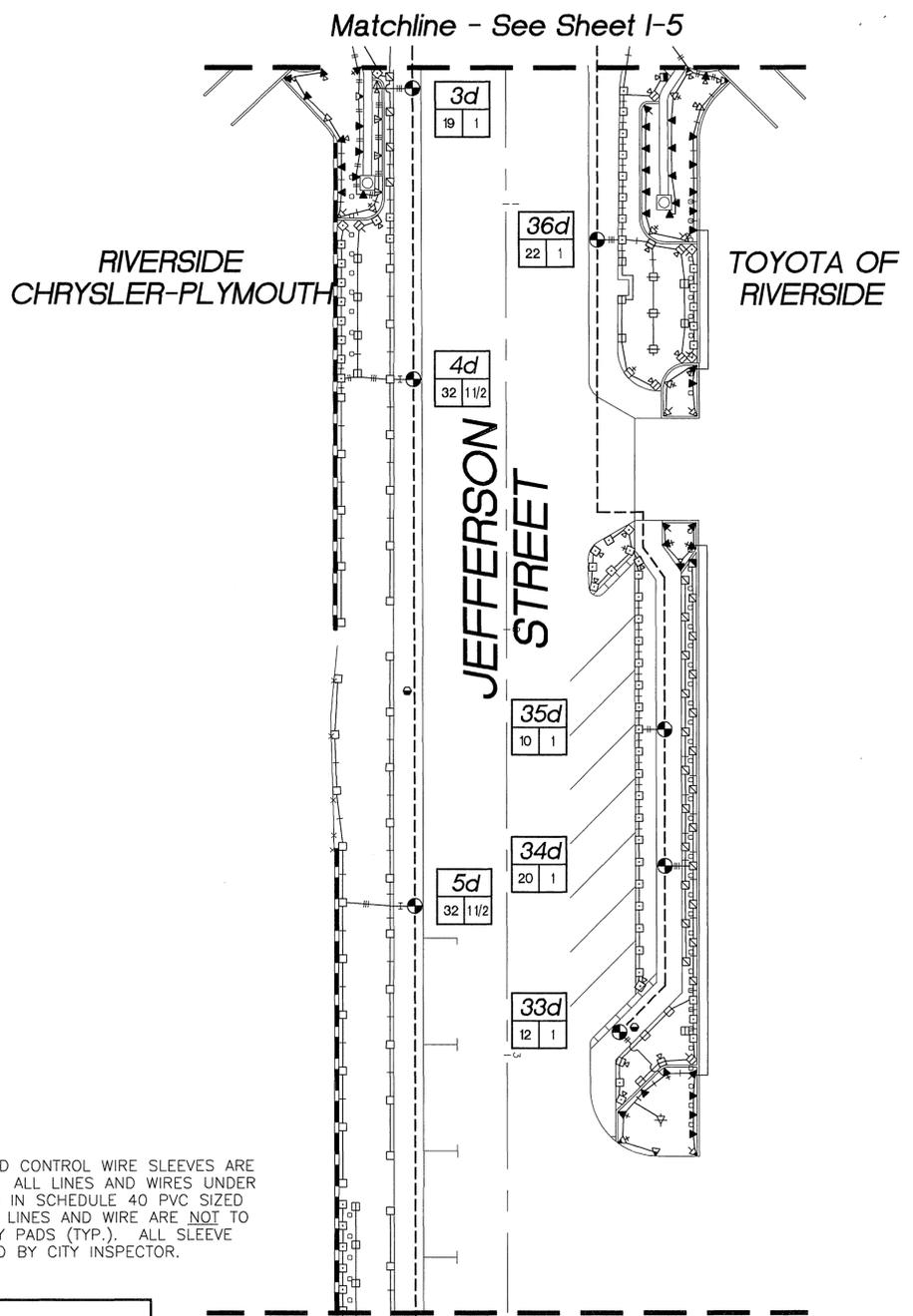
  

STATION #	CONTROLLER
+	+

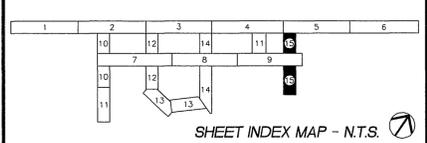
  

FLOW (GPM)	VALVE SIZE
+	+

PIPE SIZING CHART	
1/2" PIPE	1/2" PIPE
3/4" PIPE	3/4" PIPE
1" PIPE	1" PIPE
1 1/4" PIPE	1 1/4" PIPE
1 1/2" PIPE	1 1/2" PIPE
2" PIPE	2" PIPE
2 1/2" PIPE	2 1/2" PIPE
3" PIPE	3" PIPE
4" PIPE	4" PIPE
6" PIPE	6" PIPE



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- SEE SHEET I-0 FOR GENERAL IRRIGATION NOTES.
- SEE SHEET I-0 FOR PROJECT SPECIFIC IRRIGATION NOTES.
- SEE SHEET I-16 FOR IRRIGATION DETAILS.

Underground Service Alert Call: TOLL FREE 1 - 800 227 - 2600 TWO WORKING DAYS BEFORE YOU DIG	<b>PRIVATE ENGINEERING NOTE</b> CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL AGENCIES AND AGENCIES INVOLVED IN THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL AGENCIES AND AGENCIES INVOLVED IN THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL AGENCIES AND AGENCIES INVOLVED IN THE PROJECT.	PREPARED UNDER THE DIRECTION OF:  REGISTERED LANDSCAPE ARCHITECT NO. 197157 EXPIRATION DATE: 10/15/99	<b>CEG CANTY ENGINEERING GROUP, INC.</b> CIVIL ENGINEERING - PLANNING - SURVEYING 3120 CHICAGO AVENUE, SUITE 180, P.O. BOX 52050, RIVERSIDE, CA 92517 TEL (909) 683 - 5234 FAX (909) 683 - 5301	CITY OF RIVERSIDE, DEPARTMENT OF PUBLIC WORKS	IN THE CITY OF RIVERSIDE, COUNTY OF RIVERSIDE STATE OF CALIFORNIA LANDSCAPE ARCHITECTURAL PLANS FOR <b>AUTO CENTER RENOVATION</b> JEFFERSON STREET IRRIGATION PLAN	PROJECT NO. R-3471 <b>I-15</b> OF 20 SHEETS
		APPROVED BY:  DATE: AUGUST, 1997				

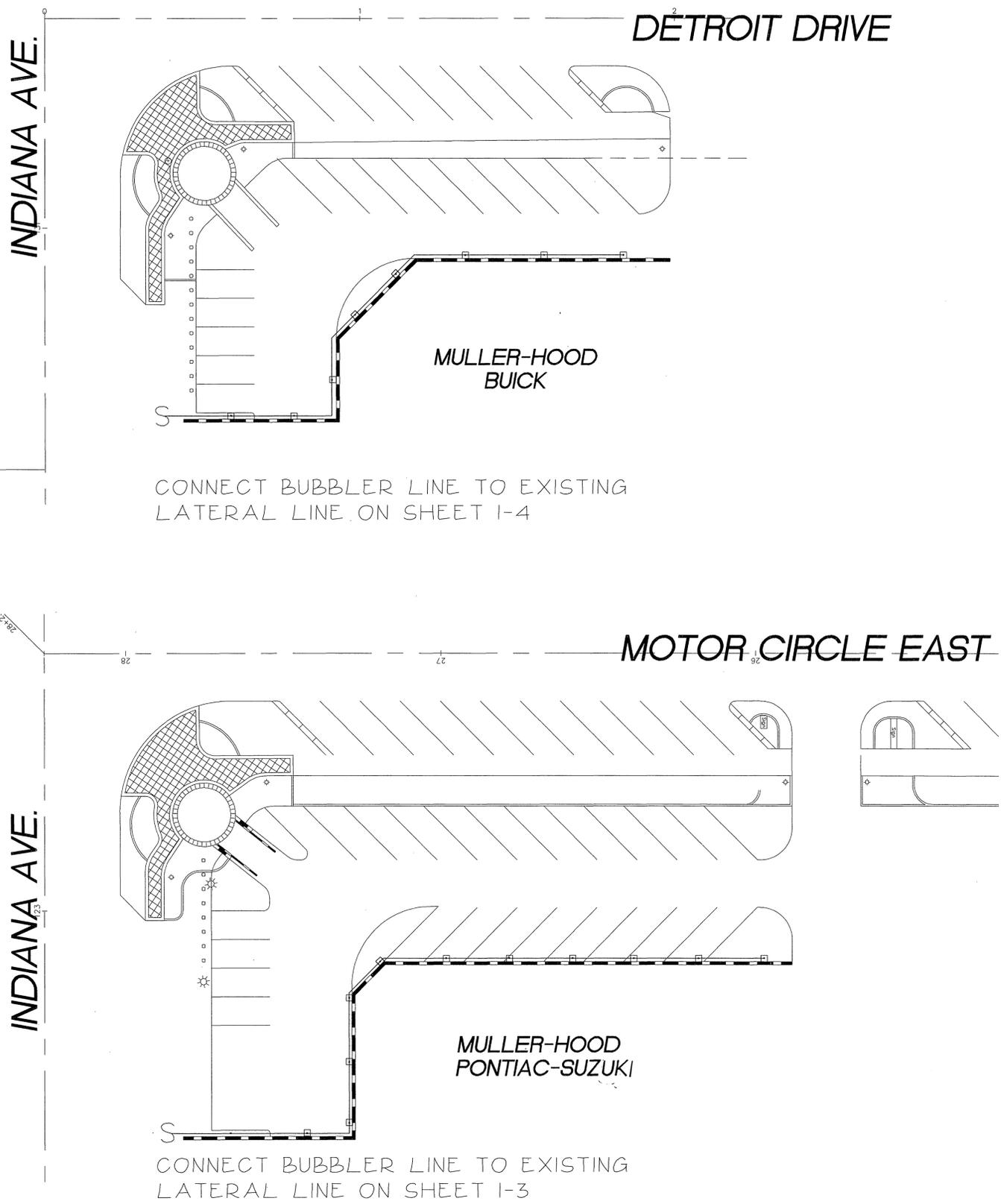
File W/R-3471

INDEXED 12-26-01 fth

1 1/4" SLEEVE	1-4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5-10 WIRES	3/4" PIPE
2" SLEEVE	11-20 WIRES	1" PIPE
2 1/2" SLEEVE	21-30 WIRES	1 1/4" PIPE
3" SLEEVE	31-40 WIRES	1 1/2" PIPE
4" SLEEVE	41-60 WIRES	2" PIPE
6" SLEEVE	61-99 WIRES	3" PIPE
8" SLEEVE	100+ WIRES	4" PIPE
10" SLEEVE	N/A	6" PIPE

STATION #	CONTROLLER
FLOW (GPM)	VALVE SIZE

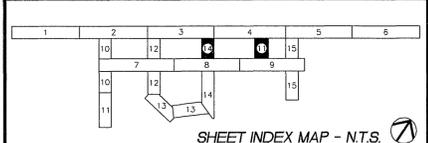
1/2" PIPE	1/2" PIPE
3/4" PIPE	3/4" PIPE
1" PIPE	1" PIPE
1 1/4" PIPE	1 1/4" PIPE
1 1/2" PIPE	1 1/2" PIPE
2" PIPE	2" PIPE
2 1/2" PIPE	2 1/2" PIPE
3" PIPE	3" PIPE
4" PIPE	4" PIPE
6" PIPE	6" PIPE



CONNECT BUBBLER LINE TO EXISTING LATERAL LINE ON SHEET I-4

CONNECT BUBBLER LINE TO EXISTING LATERAL LINE ON SHEET I-3

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PREPARED UNDER THE DIRECTION OF:  
 REGISTERED LANDSCAPE ARCHITECT NO. 280  
 EXPIRATION DATE: 10/15/99  
 APPROVED BY:

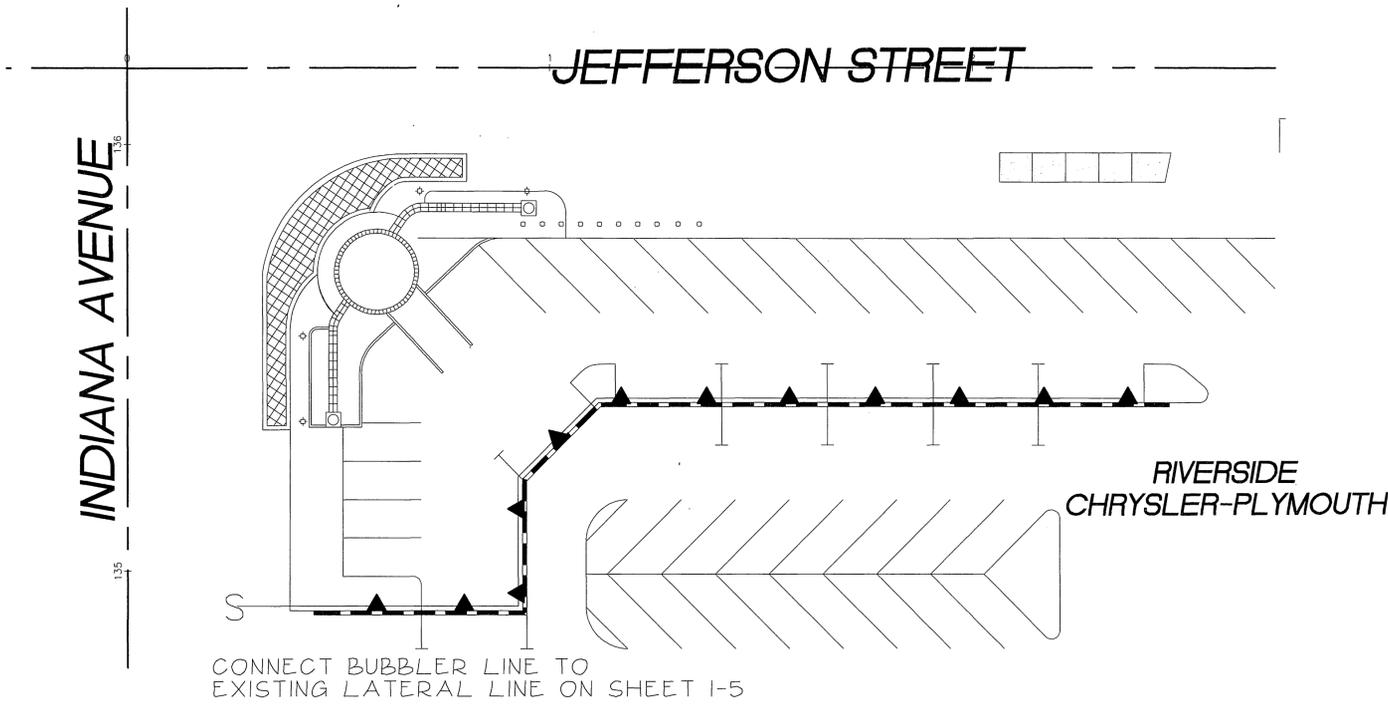
**CEG CANTY ENGINEERING GROUP, INC.**  
 CIVIL ENGINEERING - PLANNING - SURVEYING  
 3120 CHICAGO AVENUE, SUITE 180, P.O. BOX 52050, RIVERSIDE, CA 92517  
 TEL (909) 683 - 5234 FAX (909) 683 - 5301  
 SCALE: 1"=20'  
 BENCH MARK:  
 DATE: JULY 1997

MARK	REVISIONS	APPR. DATE
DESIGNED BY	DRAWN BY	CHECKED BY

**CITY OF RIVERSIDE, DEPARTMENT OF PUBLIC WORKS**  
 APPROVED BY: \_\_\_\_\_ BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 PRINCIPAL ENGR.  
 PARK DEPARTMENT  
 TRAFFIC DIVISION  
 CHIEF P.W. ENGR.  
 APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 DIRECTOR OF PUBLIC WORKS

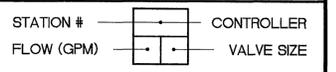
IN THE CITY OF RIVERSIDE, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA  
**LANDSCAPE ARCHITECTURAL PLANS FOR AUTO CENTER RENOVATION**  
 VINE PLANTING  
 PLANTING PLAN  
 FOR: RIVERSIDE AUTO CENTER ASSESSMENT DISTRICT  
 PROJECT NO. **I-16**  
 OF **20** SHEETS  
 FILE NO.: 1036-003

File W/R-3471



**SCH 40 PVC SLEEVING CHART**

1 1/4" SLEEVE	1-4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5-10 WIRES	3/4" PIPE
2" SLEEVE	11-20 WIRES	1" PIPE
2 1/2" SLEEVE	21-30 WIRES	1 1/4" PIPE
3" SLEEVE	31-40 WIRES	1 1/2" PIPE
4" SLEEVE	41-60 WIRES	2" PIPE
6" SLEEVE	61-99 WIRES	3" PIPE
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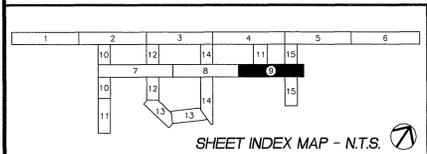
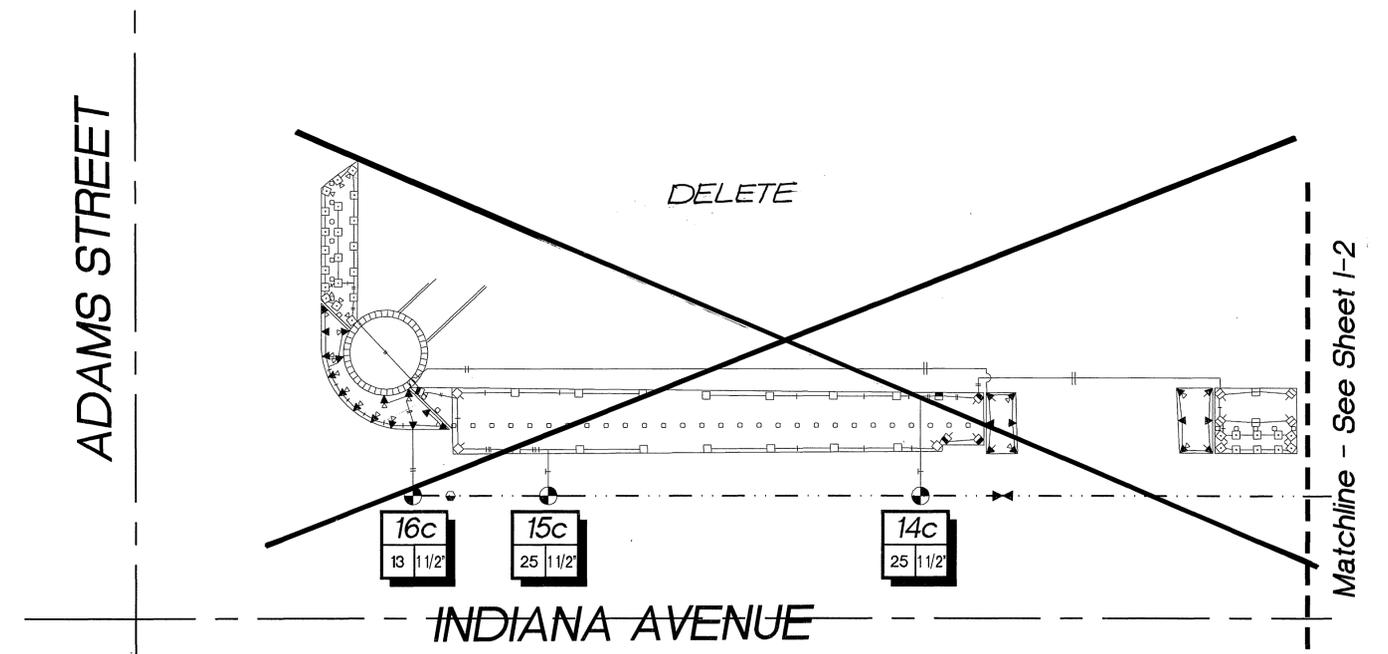


**PIPE SIZING CHART**

1/2" PIPE
3/4" PIPE
1" PIPE
1 1/4" PIPE
1 1/2" PIPE
2" PIPE
2 1/2" PIPE
3" PIPE
4" PIPE
6" PIPE



**\*\*NOTE\*\***  
 MAINLINE, LATERAL LINE, AND CONTROL WIRE SLEEVES ARE NOT SHOWN ON DRAWINGS. ALL LINES AND WIRES UNDER HARDSCAPE TO BE SLEEVED IN SCHEDULE 40 PVC SIZED PER SLEEVING CHART. ALL LINES AND WIRE ARE NOT TO BE LOCATED UNDER DISPLAY PADS (TYP.). ALL SLEEVE LOCATIONS TO BE APPROVED BY CITY INSPECTOR.



**COMWORKS DESIGN GROUP**

3750 University Avenue  
 Suite 175  
 Riverside, CA 92501  
 (909) 369-0700  
 Fax (909) 369-0700  
 e-mail: comworks@pe.net  
 http://www.pe.net/comworks

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**PRIVATE ENGINEERING NOTE**  
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PREPARED UNDER THE DIRECTION OF:  
 REGISTERED LANDSCAPE ARCHITECT NO. 210  
 EXPIRATION DATE: 10/17/98  
 APPROVED BY:

**CEG CANTY ENGINEERING GROUP, INC.**  
 CIVIL ENGINEERING - PLANNING - SURVEYING  
 3120 CHICAGO AVENUE, SUITE 180, P.O. BOX 52050, RIVERSIDE, CA 92517  
 TEL (909) 683 - 5234 FAX (909) 683 - 5301

SCALE: 1" = 20'-0" BENCH MARK:  
 DATE: AUGUST, 1997

MARK	REVISIONS	APPR.	DATE
DESIGNED BY:	DRAWN BY:	CHECKED BY:	

**CITY OF RIVERSIDE,**  
 DEPARTMENT OF PUBLIC WORKS

APPROVED BY: [ ] BY: [ ] DATE: [ ]  
 APPROVED BY: [ ]  
 DIRECTOR OF PUBLIC WORKS

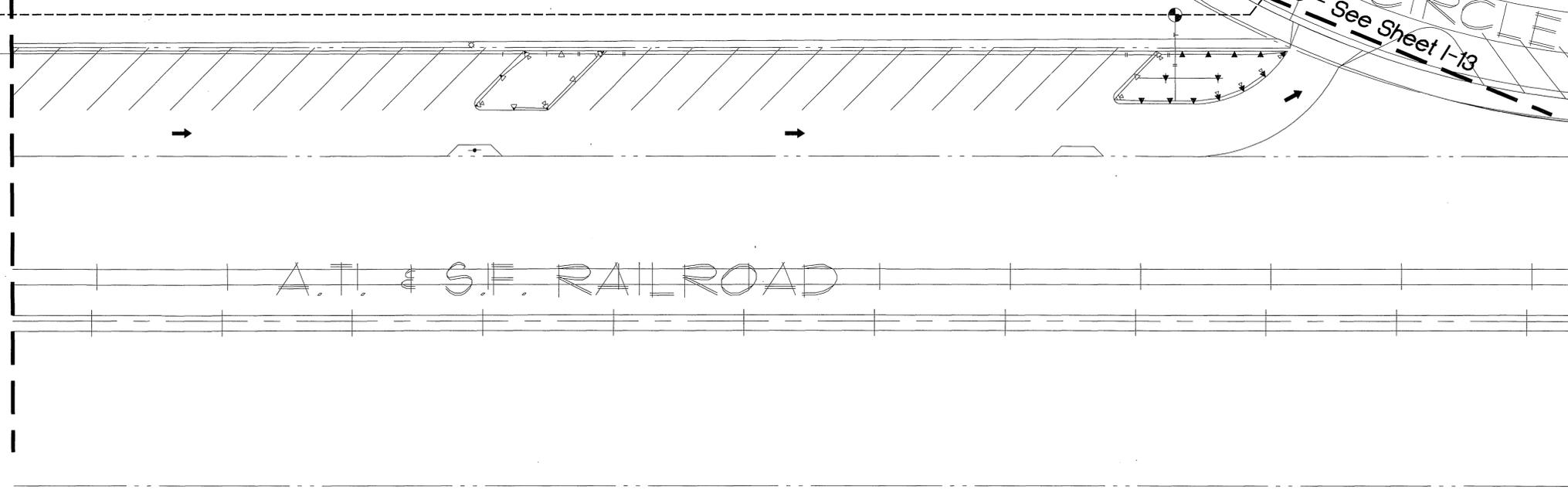
IN THE CITY OF RIVERSIDE, COUNTY OF RIVERSIDE  
 STATE OF CALIFORNIA  
 LANDSCAPE ARCHITECTURAL PLANS FOR  
 AUTO CENTER RENOVATION  
 AUTO DRIVE  
 IRRIGATION PLAN

PROJECT NO. R-3471  
 I-17  
 OF 20 SHEETS  
 FOR: RIVERSIDE AUTO CENTER ASSESSMENT DISTRICT  
 FILE NO.: 9613380

File W/R-3471

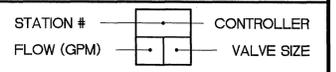


Matchline - See Below Right



**SCH 40 PVC SLEEVING CHART**

1 1/4" SLEEVE	1-4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5-10 WIRES	3/4" PIPE
2" SLEEVE	11-20 WIRES	1" PIPE
2 1/2" SLEEVE	21-30 WIRES	1 1/4" PIPE
3" SLEEVE	31-40 WIRES	1 1/2" PIPE
4" SLEEVE	41-60 WIRES	2" 1/2" PIPE
6" SLEEVE	61-99 WIRES	3" PIPE
8" SLEEVE	100+ WIRES	4" PIPE
10" SLEEVE	N/A	6" PIPE

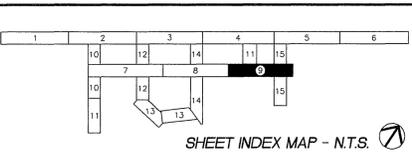


**PIPE SIZING CHART**

1/2" PIPE
3/4" PIPE
1" PIPE
1 1/4" PIPE
1 1/2" PIPE
2" PIPE
2 1/2" PIPE
3" PIPE
4" PIPE
6" PIPE

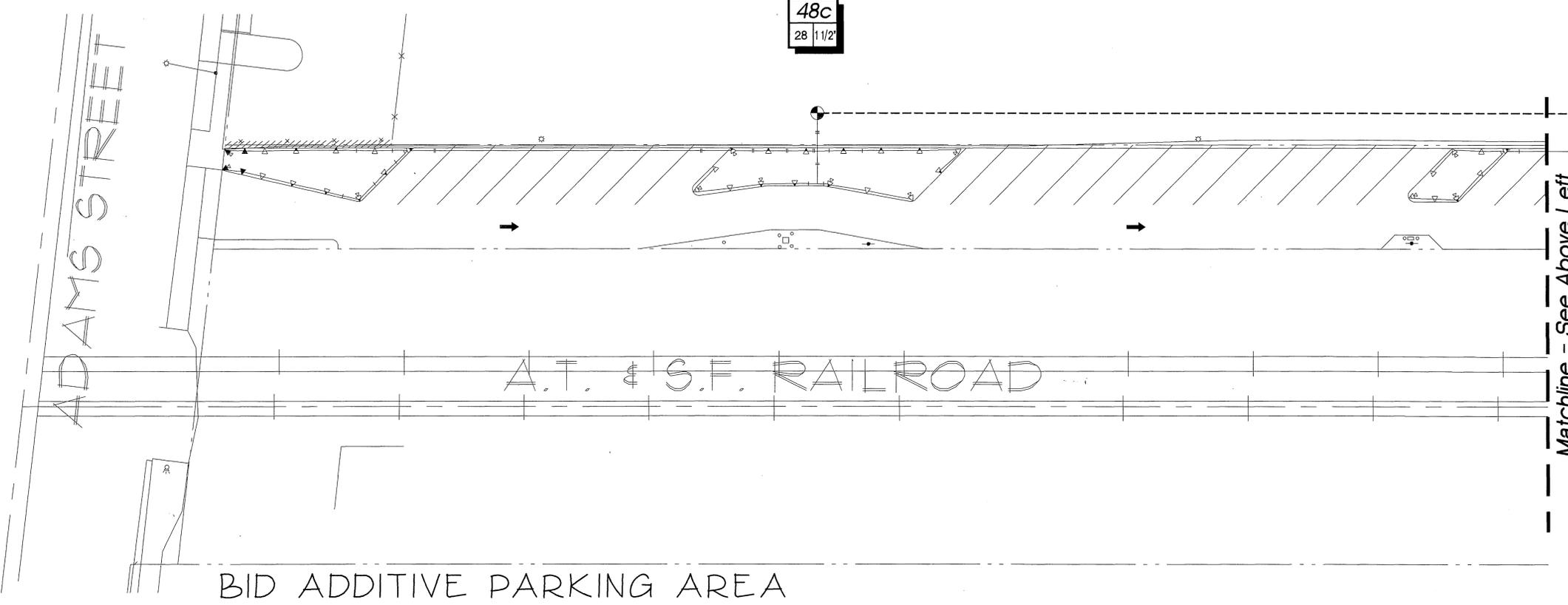


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 EXPIRATION DATE: 10/19/97  
 APPROVED BY:

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SCALE: 1" = 20'-0" BENCH MARK:  
 DATE: AUGUST, 1997

MARK	REVISIONS	APPR. DATE
DESIGNED BY	DRAWN BY	CHECKED BY

**CITY OF RIVERSIDE,**  
 DEPARTMENT OF PUBLIC WORKS

APPROVED BY: BY DATE: DATE:

PRINCIPAL ENGR.  
 PARK DEPARTMENT  
 TRAFFIC DIVISION  
 CHIEF P. ENGR.

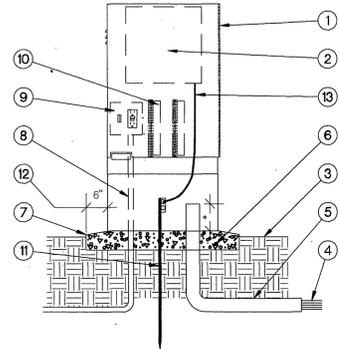
DIRECTOR OF PUBLIC WORKS  
 DATE

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PROJECT NO. R-3471  
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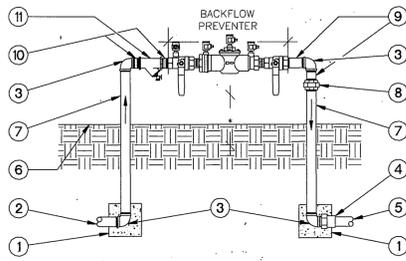
File W/R-3471

INDEXED 12-26-01 LPH



1. CONTROLLER ENCLOSURE PER LEGEND AND/OR NOTES
2. AUTOMATIC CONTROLLER PER LEGEND
3. FINISH GRADE
4. DIRECT BURIAL CONTROL WIRES TO VALVES
5. 3" PVC SWEEP ELL - EXTEND BEYOND EDGE OF BASE
6. 6" THICK POURED CONCRETE BASE PER MANUFACTURER
7. SLOPE EDGE OF BASE 1/4" TO DRAIN AWAY FROM ENCLOSURE
8. 120V AC POWER IN CONDUIT
9. 120V ON-OFF SWITCH WITH CONVENIENCE OUTLET
10. TERMINAL STRIPS FOR CONTROL WIRES
11. 5/8" x 5" MIN. LENGTH COPPER GROUNDING ROD
12. EXTEND EDGE OF BASE 6" BEYOND EDGE OF ENCLOSURE
13. GROUND CONTROLLER PER MANUFACTURER

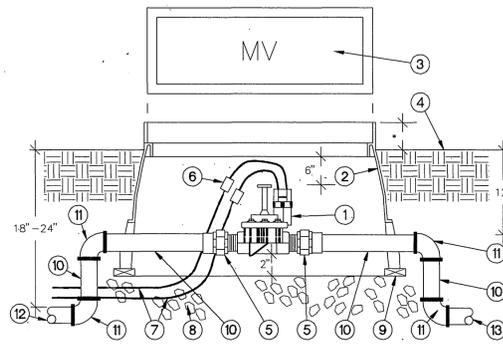
**A** Controller



1. 12"x12"x12" MINIMUM CONCRETE THRUST BLOCK TO POINT OF CONNECTION - ADAPT AS NECESSARY
2. FINISH GRADE
3. BRASS 90 DEGREE ELL - T x T
4. PVC SCH 40 MALE ADAPTOR - SIZE AS REQUIRED
5. PVC MAINLINE PER LEGEND - SIZE PER PLAN
6. BRASS UNION - SIZE AS REQUIRED
7. BRASS NIPPLE - T x T (LENGTH AS REQUIRED)
8. BRASS NIPPLE - T x T (4" MINIMUM LENGTH)
9. BRASS NIPPLE - T x T (2" MINIMUM LENGTH)
10. BRASS Y-STRAINER (60 MESH SCREEN) W/HOSE BIB
11. 12" MINIMUM, 30" MAXIMUM

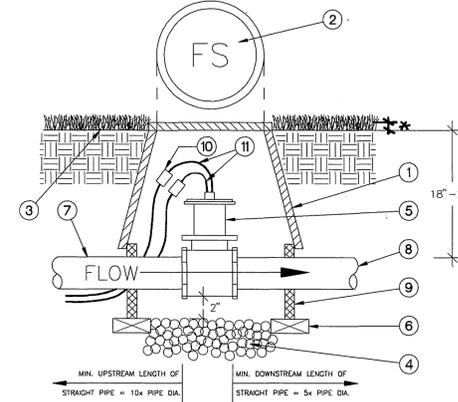
NOTE: INSTALL BACKFLOW PREVENTER AS REQUIRED BY LOCAL CODES, HEALTH DEPARTMENT STANDARDS, AND MANUFACTURER'S DIRECTIONS. CONTRACTOR SHALL VERIFY LOCAL LOCAL REQUIREMENTS PRIOR TO INSTALLATION.

**B** Backflow Preventer



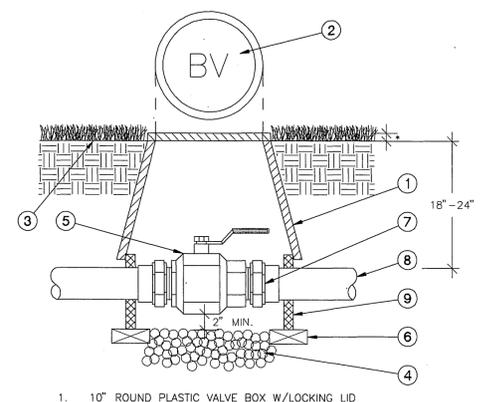
1. ELECTRIC CONTROL VALVE PER LEGEND
2. RECTANGULAR VALVE BOX WITH BOLT-DOWN LID
3. HEAD BRAND "MV" ON LID IN 2" HIGH CHARACTERS
4. FINISH GRADE
5. PVC SCH 40 MALE ADAPTOR
6. WATERPROOF WIRE CONNECTION W/3/8" EXPANSION LOOP
7. #14 UF WIRES TO CONTROLLER MASTER VALVE OUTPUT
8. 3/4" CRUSHED ROCK - 6" DEEP
9. COMMON BRICK - 4 REQUIRED
10. PVC MAINLINE PER LEGEND - LENGTH AS REQUIRED
11. PVC SCH 40 ELL - S x S
12. MAINLINE PIPING FROM POINT OF CONNECTION TO CONTROL VALVES
13. MAINLINE PIPING TO CONTROL VALVES

**C** Master Valve



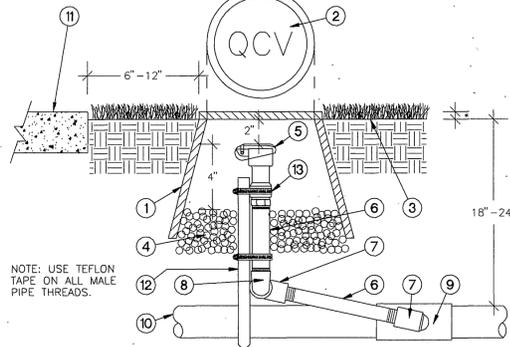
1. 10" ROUND PLASTIC VALVE BOX WITH LOCKING LID
2. HEAT BRAND "FS" ON LID IN 2" HIGH CHARACTERS
3. FINISH GRADE
4. 3/4" CRUSHED ROCK - 4" DEEP
5. VALVE BOX EXTENSIONS AS REQUIRED
6. WATERPROOF WIRE CONNECTORS WITH 3/8" EXPANSION LOOP
7. PVC MAINLINE PER LEGEND
8. PVC MAINLINE TO SYSTEM - PER LEGEND
9. VALVE BOX EXTENSIONS AS REQUIRED
10. WATERPROOF WIRE CONNECTORS WITH 3/8" EXPANSION LOOP
11. CABLE TO TRANSMITTER/CONTROLLER PER MANUFACTURER

**D** Flow Sensor



1. 10" ROUND PLASTIC VALVE BOX W/LOCKING LID
2. HEAT BRAND "BV" ON LID IN 2" HIGH CHARACTERS
3. FINISH GRADE
4. 3/4" CRUSHED ROCK - 4" DEPTH
5. BALL VALVE PER EQUIPMENT LEGEND
6. COMMON BRICK - 4 REQUIRED
7. SCH 40 PVC MALE ADAPTOR - 2 REQUIRED
8. MAINLINE PIPING PER EQUIPMENT LEGEND
9. VALVE BOX EXTENSION(S) AS REQUIRED
10. 1/2" IN TURF AREAS AND 2" IN SHRUB AREAS

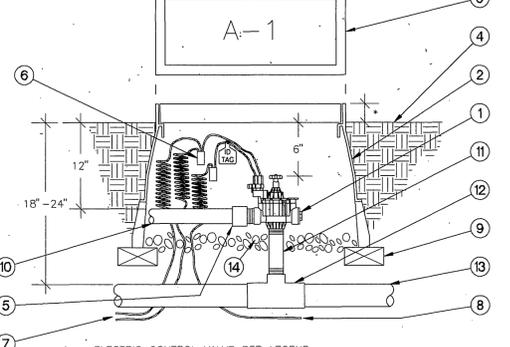
**E** Ball Valve



NOTE: USE TEFLON TAPE ON ALL MALE PIPE THREADS.

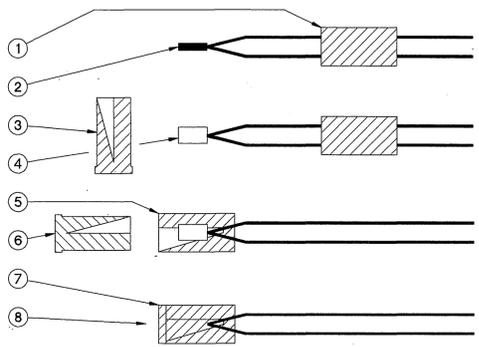
1. 10" ROUND PLASTIC VALVE BOX WITH LOCKING LID
2. HEAT BRAND "QCV" ON LID IN 2" HIGH CHARACTERS
3. FINISH GRADE
4. 3/4" CRUSHED ROCK - 4" DEEP
5. QUICK COUPLING VALVE PER LEGEND
6. PVC SCH 80 NIPPLE - LENGTH AS REQUIRED
7. PVC SCH 40 STREET ELL - T x T
8. PVC SCH 40 ELL - T x T
9. SCH 40 PVC MAINLINE FITTING
10. PVC SCH 40 MAINLINE PIPING - PER LEGEND
11. WALK OR CURB
12. #4 x 18" MINIMUM REBAR SUPPORT STAKE
13. STAINLESS STEEL CLAMP - TYPICAL OF TWO

**F** Quick Coupling Valve



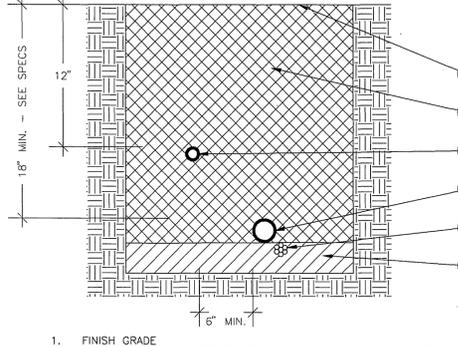
1. ELECTRIC CONTROL VALVE PER LEGEND
2. RECTANGULAR PLASTIC VALVE BOX WITH BOLT-DOWN LID
3. HEAT BRAND STATION NUMBER ON LID IN 2" HIGH CHARACTERS
4. FINISH GRADE
5. PVC SCH 40 MALE ADAPTOR - SIZE AS REQUIRED
6. WATERPROOF WIRE CONNECTION W/3/8" EXPANSION LOOP
7. CONTROL WIRE TO CONTROLLER
8. COMMON WIRE TO OTHER VALVES ON SAME CONTROLLER
9. COMMON BRICK - 4 REQUIRED
10. PVC CLASS 200 LATERAL LINE TO SPRINKLERS
11. SCH 80 PVC NIPPLE - T x T (SAME SIZE AS VALVE)
12. PVC SCH 40 MAINLINE FITTING - 5xT
13. PVC MAINLINE PER LEGEND
14. 3/4" CRUSHED ROCK - 6" DEEP

**G** Electric Control Valve



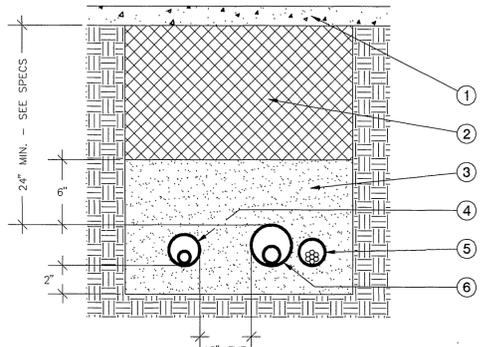
1. SLIP BASE SOCKET OVER END OF WIRES
2. STRIP WIRES APPROX. 5/8" FROM ENDS - TWIST TOGETHER
3. APPLY SEALER TO OUTSIDE OF SEALING PLUG AND FILL CAVITY WITH SEALER
4. PUT CRIMP END OVER WIRE ENDS - CRIMP SLEEVE AND CUT OFF EXCESS WIRE
5. PULL BASE SOCKET OVER END OF WIRES AS FAR AS POSSIBLE
6. PUSH SEALING PLUG INTO BASE SOCKET
7. PUSH WIRES TO END OF BASE SOCKET TO INSURE COMPLETE SEALING OF CONNECTION
8. COMPLETED WATERPROOF WIRE CONNECTION

**H** Wire Connector



1. FINISH GRADE
2. CLEAN BACKFILL - 90% COMPACTION REQUIRED - SEE SPECS
3. NON-PRESSURE LATERAL LINE PER LEGEND
4. PRESSURE SUPPLY LINE PER LEGEND
5. CONTROL WIRES - INSTALL BELOW PRESSURE SUPPLY LINE
6. PROVIDE 2" OF CLEAN BACKFILL

**I** Trenching



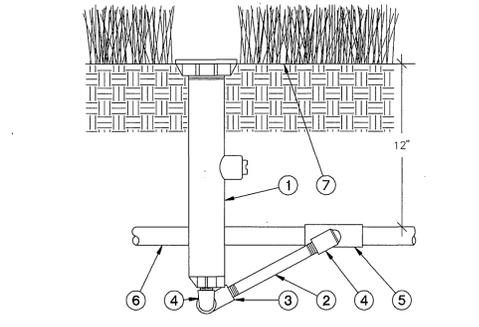
1. HARDSCAPE (TYPICAL)
2. CLEAN BACKFILL - 90% COMPACTION REQUIRED - SEE SPECS
3. SAND (TYPICAL)
4. NON-PRESSURE LATERAL LINE / SLEEVE (SIZE PER CHART)
5. CONTROL WIRE SLEEVE ADJACENT TO MAINLINE SLEEVE (SIZE PER CHART)
6. PRESSURE SUPPLY LINE / SLEEVE (SIZE PER CHART)

**J** Sleeving



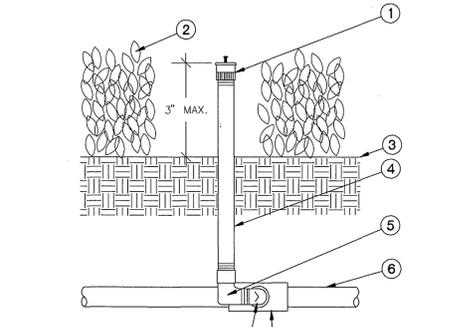
1. POP-UP SPRAY/ROTOR HEAD PER LEGEND
2. PVC SCH 80 NIPPLE - 12" MINIMUM LENGTH
3. PVC SCH 40 STREET ELL - T x T
4. MARLEX STREET ELL - T x T
5. PVC SCH 40 LATERAL LINE FITTING
6. LATERAL LINE PER EQUIPMENT LEGEND
7. FINISH GRADE

**K** Turf Pop-Up Spray Head



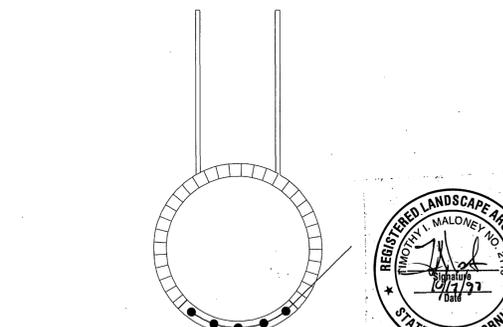
1. SHRUB HI-POP SPRAY HEAD PER LEGEND
2. PVC SCH 80 NIPPLE - 12" MINIMUM LENGTH
3. PVC SCH 40 STREET ELL - T x T
4. MARLEX STREET ELL - T x T
5. PVC SCH 40 LATERAL LINE FITTING
6. LATERAL LINE PER LEGEND
7. FINISH GRADE

**L** Shrub Hi-Pop Spray Head



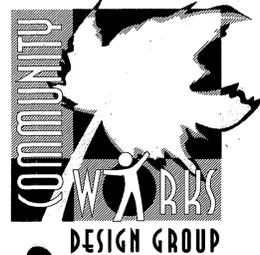
1. FLOOD BUBBLER / DRIP EMITTER PER LEGEND
2. PLANT MATERIAL (TYPICAL)
3. FINISH GRADE
4. 1/2" SCH 80 NIPPLE (LENGTH AS REQUIRED)
5. 1/2" SCH 40 PVC STREET ELL - T x T
6. PVC LATERAL LINE PER LEGEND
7. 1/2" MARLEX STREET ELL - T x T
8. SCH 40 PVC LATERAL LINE FITTING - 5xT

**M** FLOOD BUBBLER



1. EACH DISPLAY PAD HAS A SMALL, NARROW PLANTER AREA UNDER THE DEALER SIGN. THIS AREA IS TO BE IRRIGATED AS SHOWN ON THIS DETAIL. INSTALL FIVE (5) RAINBIRD 1401 FLOOD BUBBLERS IN THIS AREA. ACTUAL BUBBLERS ARE NOT SHOWN ON THE PLANS. RUN 1/2" SCH 40 PVC FROM BUBBLERS TO SHRUB SYSTEM. THE LINE FROM THE SHRUB SYSTEM TO THE DISPLAY PAD PLANTER IS SHOWN ON THE PLANS. CONTRACTOR MAY ROUTE THE LINE FROM THE SHRUB SYSTEM TO THE DISPLAY PAD PLANTER AS IS BEST DETERMINED IN THE FIELD.

**N** BUBBLERS • DISPLAY PAD



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PREPARED UNDER THE DIRECTION OF:  
REGISTERED LANDSCAPE ARCHITECT NO. 2111  
EXPIRATION DATE: 10/1/2012  
APPROVED BY:

**CEG** CANTY ENGINEERING GROUP, INC.  
CIVIL ENGINEERING - PLANNING - SURVEYING  
3120 CHICAGO AVENUE, SUITE 180, P.O. BOX 52050, RIVERSIDE, CA 92517  
TEL (909) 683 - 5234 FAX (909) 683 - 5301  
SCALE: N.T.S. BENCH MARK:  
DATE: AUGUST, 1997

CITY OF RIVERSIDE, DEPARTMENT OF PUBLIC WORKS  
APPROVED BY: BY DATE APPROVED BY:  
PRINCIPAL ENGR. PARK DEPARTMENT TRAFFIC DIVISION CHIEF P.W.ENGR. DATE  
DESIGNED BY DRAWN BY CHECKED BY

IN THE CITY OF RIVERSIDE, COUNTY OF RIVERSIDE STATE OF CALIFORNIA  
LANDSCAPE ARCHITECTURAL PLANS FOR AUTO CENTER RENOVATION  
IRRIGATION DETAILS  
FOR: RIVERSIDE AUTO CENTER ASSESSMENT DISTRICT

PROJECT NO. R-3471  
I-19 OF 20 SHEETS  
FILE NO.: 9613380



File w/R-3471

INDEXED 12-26-01 LPH

**GENERAL IRRIGATION NOTES:**

- GENERAL - ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND THESE PLANS. THE CONTRACTOR SHALL APPLY FOR ALL PERMITS AND PAY FOR SAME.
  - THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN ON THE PLANS AT THE SITE PRIOR TO COMMENCEMENT OF ANY WORK UNDER THIS CONTRACT.
  - THE CONTRACTOR SHALL CARRY ALL WORKERS COMPENSATION, PUBLIC LIABILITY AND PROPERTY DAMAGE INSURANCE, AS REQUIRED BY THE CITY/OWNER.
- SCOPE OF WORK - UNLESS OTHERWISE SPECIFIED, THE CONSTRUCTION OF IRRIGATION SYSTEMS SHALL INCLUDE THE FURNISHING, INSTALLING AND TESTING OF ALL MAINLINE, POINT OF CONNECTION, LATERAL LINES, RISERS AND FITTINGS; AND THE FURNISHING AND INSTALLING OF SPRINKLER HEADS, CONTROLLER, ELECTRIC CONTROL VALVES, EXCAVATION AND BACKFILL AND ALL OTHER WORK IN ACCORDANCE WITH THESE PLANS, DETAILS, AND NOTES.
 

THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT PROPERTY, TRANSPORTATION AND PERFORM ALL OPERATIONS REQUIRED FOR A COMPLETE AND OPERABLE IRRIGATION SYSTEM AS INDICATED ON, OR REASONABLY IMPLIED BY THE DRAWINGS, SPECIAL PROVISIONS, DETAILS, AND/OR NOTES. INCLUDED AS PART OF THE IRRIGATION WORK, BUT NOT LIMITED BY IT, ARE THE FOLLOWING:

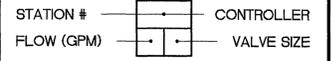
  - INSTALL COMPLETE OPERABLE INDEPENDENT IRRIGATION SYSTEMS PER THE PLANS, DETAILS, LEGEND, AND NOTES.
  - ALL IRRIGATION WORK SHALL BE GUARANTEED BY THE CONTRACTOR AS TO MATERIAL AND WORK-MANSHIP, INCLUDING SETTling OF BACKFILLED TRENCHES BELOW GRADE FOR A PERIOD OF ONE YEAR FOLLOWING THE DATE OF FINAL ACCEPTANCE OF THE WORK.
- THE ENGINEER SHALL DECIDE ALL QUESTIONS RELATING TO THE INTERPRETATION OF THE DRAWINGS AND THE ACCEPTABLE FULFILLMENT OF THE CONTRACT.
- PIPING SHOWN ON THE PLANS IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL ROUTE PIPING TO AVOID CONFLICT WITH STATIONARY ELEMENTS AND IN SUCH A MANNER AS TO CONFORM WITH THE VARIOUS DETAILS, SPECIAL PROVISIONS, AND DESIGN INTENT OF THESE PLANS.
- THE CONTRACTOR SHALL AT ALL TIMES PROTECT HIS WORK FROM DAMAGE AND THEFT AND REPLACE ALL DAMAGED OR STOLEN PARTS AT HIS EXPENSE UNTIL THE WORK IS ACCEPTED IN WRITING BY THE OWNER/CITY.
- EXTREME CARE SHALL BE EXERCISED IN EXCAVATING AND WORKING NEAR EXISTING UTILITIES. CONTRACTOR SHALL VERIFY THE LOCATION AND CONDITION OF ALL UTILITIES AND BE RESPONSIBLE FOR ANY DAMAGE.
- THE CONTRACTOR SHALL KEEP THE PREMISES CLEAN AND FREE OF EXCESS EQUIPMENT, MATERIALS AND RUBBISH INCIDENTAL TO HIS WORK.
- IRRIGATION DESIGN IS BASED ON THE NOTED AVAILABLE PRESSURE AND FLOW AT EACH POC, CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO CONSTRUCTION; SHOULD A DISCREPANCY EXIST, NOTIFY THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL MAKE POINT(S) OF CONNECTION (POC) AS NOTED ON THE PLANS.
- IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING 120 VOLT SERVICE TO THE CONTROLLER; ELECTRICAL POWER WILL BE PROVIDED BY OTHERS AT THE CONTROLLER LOCATION SHOWN ON PLAN.
- ALL WIRES SHALL BE SOLID COPPER, PLASTIC INSULATED, U.F. DIRECT BURIAL WIRE. ALL COMMON WIRE SHALL BE AWG #12 WHITE; ALL CONTROL WIRE SHALL BE AWG #14 RED OR BLACK. CONTROLLERS SHALL HAVE SEPARATE COLOR CODED COMMON WIRES WHEN TWO OR MORE CONTROLLERS ARE ON PROJECT.
- ALL CONTROL WIRE AND IRRIGATION PIPE LINES THAT RUN UNDER A/C PAVING SHALL BE ENCASED IN SCH 40 PVC PIPE SLEEVES. SLEEVES SHALL BE SIZED ACCORDING TO SLEEVING CHART ON PLANS.
- FINAL LOCATION OF CONTROL VALVES SHALL BE APPROVED IN THE FIELD BY THE ENGINEER.
- CONTRACTOR SHALL HEAT BRAND VALVE NUMBERS ON INSIDE AND OUTSIDE OF ALL VALVE BOX LIDS.
- ALL BRASS OR GALVANIZED CONNECTIONS SHALL BE COATED WITH TEFLON TAPE OR LEAD-LUBE JOINT COMPOUND (OR CITY APPROVED EQUAL). ALL PVC THREADED CONNECTIONS SHALL BE COATED WITH TEFLON TAPE.
- ALL PVC SOLVENT-WELD CONNECTIONS SHALL BE MADE WITH SOLVENT-WELD MATERIALS AS RECOMMENDED BY THE PIPE MANUFACTURER. SOLVENT-WELD PRIMER SHALL BE APPLIED AT ALL CONNECTIONS.
- LOW HEAD DRAINAGE WILL NOT BE ALLOWED. CONTRACTOR TO DETERMINE IN THE FIELD WHICH HEADS DRAIN AFTER THE VALVE IS SHUT OFF. CONTRACTOR SHALL PROVIDE AND INSTALL ADDITIONAL IN-LINE CHECK VALVES AS NEEDED AT NO ADDITIONAL COST TO THE OWNER.
- ALL PRESSURE SUPPLY LINES TO HAVE 24" MINIMUM COVER. LATERAL LINES TO HAVE 12" MINIMUM COVER.
- THE RADIUS OF EACH HEAD IS TO BE ADJUSTED SO THAT HEAD-TO-HEAD COVERAGE IS MAINTAINED, BUT OVER-SPRAY ON BUILDINGS, WALKS, WALLS, AND OTHER HARD SURFACES IS MINIMIZED.
- UPON COMPLETION OF THE PROJECT, THE CONTRACTOR IS TO TURN OVER TO THE ENGINEER:
  - A REPRODUCIBLE SET OF "AS-BUILT" DRAWINGS AND CONTROLLER CHART.
  - 2 KEYS FOR EACH CONTROLLER AND CONTROLLER ENCLOSURE (WHERE APPLICABLE).
  - 2 QUICK COUPLER KEYS AND MATCHING HOSE SWIVELS.
  - 4 OF EACH SPRINKLER HEAD SPECIFIED.
- "AS-BUILT" DRAWINGS - THE CONTRACTOR SHALL PROVIDE AND KEEP UP TO DATE A COMPLETE "AS-BUILT" RECORD SET OF DRAWINGS WHICH SHALL BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS. PRIOR TO FINAL INSPECTION, THE CONTRACTOR SHALL TRANSCRIBE ALL INFORMATION FROM THE "AS-BUILT" SET TO A REPRODUCIBLE OZALID SEPIA, PROCURED FROM THE ENGINEER. ALL WORK SHALL BE NEAT AND LEGIBLE, LOCATING THE FOLLOWING ITEMS FROM PERMANENT POINTS OF REFERENCE: GATE VALVES, MAINLINE AND CONTROL WIRE ROUTING, POC, BACKFLOW DEVICE, CONTROL VALVES AND CONTROLLER, QUICK COUPLER VALVES, AND OTHER PERTINENT UNDERGROUND ITEMS.
- "CONTROLLER CHART" - UPON APPROVAL OF THE FINAL "AS-BUILT" DRAWINGS, PROVIDE ONE CHART FOR EACH CONTROLLER INSTALLED.
  - THE CHART IS TO BE A REDUCED COPY OF THE APPROVED "AS-BUILT" SYSTEM (A BLOCK-LINE PRINT REDUCED TO THE MAXIMUM SIZE THE CONTROLLER DOOR WILL ALLOW, COLORED WITH A DIFFERENT COLOR FOR EACH VALVE STATION).
  - WHEN COMPLETED AND APPROVED, THE CHART SHALL BE HERMETICALLY SEALED BETWEEN TWO (2) PIECES OF 20 MIL CLEAR PLASTIC AND MOUNTED ON THE INSIDE OF THE CONTROLLER DOOR USING VELCRO TAPE OR EQUAL.

SPRINKLER LEGEND						
SYMBOL	MANUFACTURER / MODEL	NOZZLES	RADIUS	FLOW (GPM)	PSI	DETAIL
<b>TURF POP-UP SPRAY HEADS</b>						
	RAINBIRD 1804 SERIES - *	8Q/8T/8H/8F/8VAN	6'-7'	.35/.45/.7/1.4/VAR.	25	'K'
	RAINBIRD 1804 SERIES	10Q/10T/10H/10F/10VAN	8'-9'	.35/.45/.7/1.4/VAR.	25	'K'
	RAINBIRD 1804 SERIES	12Q/12T/12H/12F/12VAN	10'-11'	.55/.75/1.1/2.3/VAR.	25	'K'
	RAINBIRD 1804 SERIES	15Q/15T/15H/15F/15VAN	12'-14'	.8/1.1/1.6/3.2/VAR.	25	'K'
	RAINBIRD 1804 SERIES - *	15EST/15SST	4'x14'	.55/1.1	25	'K'
<b>SHRUB HI-POP SPRAY HEADS</b>						
	RAINBIRD 1812 SERIES - *	8Q/8T/8H/8F/8VAN	6'-7'	.35/.45/.7/1.4/VAR.	25	'L'
	RAINBIRD 1812 SERIES	10Q/10T/10H/10F/10VAN	8'-9'	.35/.45/.7/1.4/VAR.	25	'L'
	RAINBIRD 1812 SERIES	12Q/12T/12H/12F/12VAN	10'-11'	.55/.75/1.1/2.3/VAR.	25	'L'
	RAINBIRD 1812 SERIES	15Q/15T/15H/15F/15VAN	12'-14'	.8/1.1/1.6/3.2/VAR.	25	'L'
	RAINBIRD 1812 SERIES - *	15EST/15SST	4'x14'	.55/1.1	25	'L'
<b>FLOOD BUBBLERS</b>						
	RAINBIRD 1401 SERIES	N/A	N/A	0.25	25	'M'

\* - CONTRACTOR SHALL USE RAINBIRD PCS DEVICES TO CONTROL RADIUS OF ALL 8' NOZZLES WHERE THE DESIRED RADIUS IS TO BE 6' AND LESS. CONTRACTOR SHALL USE THE MOST APPROPRIATE PCS DEVICE AS DETERMINED IN THE FIELD. HERE ARE THE SUGGESTED USES:  
 8Q - PCS-020, 8T - PCS-030, 8H - PCS-040, 8F - PCS-090  
 WHERE SIDESTRIP AND ENDSTRIP NOZZLES ARE USED WITH LESS THAN 10' SPACING, USE PCS DEVICES TO CONTROL THE RADIUS. SUGGESTED USES:  
 15EST - PCS-030, 15SST - PCS060  
 NOTE: VALVE FLOWS WERE CALCULATED BASED ON THESE SUGGESTED PCS DEVICES.

EQUIPMENT LEGEND					
SYMBOL	MANUFACTURER / MODEL	DESCRIPTION	SIZE	DETAIL	
	BY CITY WATER DEPARTMENT	IRRIGATION WATER METER	PER PLAN	N/A	
	FEBCO 825Y-BV-S SERIES	REDUCED PRESSURE BACKFLOW PREVENTER	1 1/4"	'B'	
	NIBCO T-585 SERIES	BRONZE BALL VALVE	LINE SIZE	'E'	
	RAINBIRD #33DLRC SERIES	QUICK COUPLING VALVE W/LOCKING COVER	3/4"	'F'	
	RAINBIRD PEB SERIES	REMOTE CONTROL ELECTIC MASTER VALVE	2"	'C'	
	RAINBIRD PGA SERIES	REMOTE CONTROL ELECTRIC VALVE	PLAN SIZE	'G'	
	DATA INDUSTRIAL 220SS SERIES	FLOW SENSOR	1 1/2"	'D'	
	APPROVED	CLASS 315 PVC MAINLINE	2 1/2"	'I'	
	APPROVED	CLASS 315 PVC MAINLINE	2"	'I'	
	APPROVED	CL200 PVC LATERAL LINE	PLAN SIZE	'I'	
	APPROVED	SCH 40 PVC PIPE SLEEVE	PLAN SIZE	'J'	
	APPROVED	SCH 40 PVC WIRE SLEEVE	PLAN SIZE	'J'	
	APPROVED	UF DIRECT BURIAL CONTROL WIRE	14 GA	'H'	
	WCS HYDROSAVER MODEL NUMBER ETIC-xx-CSS-FS CONTACT WCS & (1-800-821-1322)	AUTOMATIC IRRIGATION CONTROLLER WITH ET ADJUSTMENTS, FLOW SENSING, MANUAL MASTER VALVE SWITCH, RAINGUARD, & SS ENCLOSURE	PER PLAN	'A'	

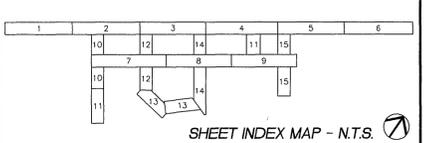
SCH 40 PVC SLEEVING CHART		
1 1/4" SLEEVE	1-4 WIRES	1/2" PIPE
1 1/2" SLEEVE	5-10 WIRES	3/4" PIPE
2" SLEEVE	11-20 WIRES	1" PIPE
2 1/2" SLEEVE	21-30 WIRES	1 1/4" PIPE
3" SLEEVE	31-40 WIRES	1 1/2" PIPE
4" SLEEVE	41-60 WIRES	2" / 2 1/2" PIPE
6" SLEEVE	61-99 WIRES	3" PIPE
8" SLEEVE	100+ WIRES	4" PIPE
10" SLEEVE	N/A	6" PIPE



PIPE SIZING CHART	
	1/2" PIPE
	3/4" PIPE
	1" PIPE
	1 1/4" PIPE
	1 1/2" PIPE
	2" PIPE
	2 1/2" PIPE
	3" PIPE
	4" PIPE
	6" PIPE

**SITE SPECIFIC IRRIGATION NOTES:**

- ALL PIPES AND WIRES UNDER HARDSCAPE TO BE SLEEVED IN SCH 40 PVC SIZED PER SLEEVING CHART. WHERE SLEEVING IS TO BE INSTALLED UNDER EXISTING HARDSCAPE, CONTRACTOR SHALL FOLLOW THESE GUIDELINES FOR INSTALLATION: 1) HARDSCAPE SHALL BE SAW-CUT A MINIMUM 12" WIDE FOR TRENCHING. 2) ALL PROPOSED SAW-CUTS SHALL BE CLEARLY MARKED IN THE FIELD AND APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE, ENGINEER, GENERAL CONTRACTOR, AND CITY UTILITY DEPARTMENTS. 3) INSTALL SLEEVING AND PIPES/WIRES PER DETAILS ON THESE PLANS. 4) COVER SLEEVES WITH 6" MIN. CLEAN FILL. 5) FILL TRENCHES WITH NATIVE SOIL AND COMPACT TO MATCH EXISTING. 6) PATCH ALL SAW-CUTS WITH HARDSCAPE MATERIAL TO MATCH EXISTING. 7) ALL NEW HARDSCAPE MATERIALS TO BE APPROVED IN THE FIELD BY THE OWNER'S AUTHORIZED REPRESENT AND THE ENGINEER. SUBMIT SAMPLE FOR APPROVAL PRIOR TO WORK.
- THIS IRRIGATION SYSTEM IS A SOMEWHAT LOW OPERATING PRESSURE SYSTEM. THE SYSTEM IS DESIGNED TO OPERATE AS SHOWN ON THE PLANS. NO SUBSTITUTIONS IN MATERIAL SIZES WILL BE ALLOWED UNLESS APPROVED BY THE LANDSCAPE ARCHITECT. SUBMIT ANY REQUESTS FOR CHANGES IN EQUIPMENT, PIPE SIZES, OR INSTALLATION PROCEDURES, ETC. TO THE ENGINEER FOR APPROVAL PRIOR TO START OF WORK.
- EACH AUTO DISPLAY PAD HAS A SMALL, NARROW PLANTER UNDER THE SIGN (REFER TO STREET CONSTRUCTION PLANS AND DETAILS, R-3471). THESE ARE NOT SHOWN ON THE IRRIGATION PLANS. THESE ARE TO BE IRRIGATED WITH FLOOD BUBBLERS AS SHOWN ON DETAIL 'N', SHEET I-16.
- ALL CONTROLLERS AND BACKFLOW PREVENTERS ARE TO BE LOCATED IN SHRUB AREAS. ALL FINAL LOCATIONS FOR THESE ITEMS ARE TO BE APPROVED IN THE FIELD BY THE ENGINEER AND THE OWNER'S AUTHORIZED REPRESENTATIVE. WHERE POSSIBLE, LOCATE CONTROL VALVES, QUICK COUPLERS, MASTER VALVES, AND FLOW SENSORS IN SHRUB AREAS ALSO.
- CONTROLLERS SHALL BE PROGRAMMED TO OPERATE DURING THE HOURS OF 10 P.M. AND 7 A.M.
- WHERE BOLLARDS ARE LOCATED IN PLANTED AREAS, USE THE FOLLOWING GUIDELINES: 1) IF BOLLARDS ARE LESS THAN 3' FROM THE ADJACENT CURB, INSTALL A BACK-UP ROW OF HEADS AS SHOWN ON THE PLANS. 2) IF BOLLARDS ARE MORE THAN 3' FROM ADJACENT CURB, A BACK-UP ROW OF HEADS MAY NOT BE NEEDED. 3) WHERE BACK-UP HEADS ARE USED, CENTER THE HEADS BETWEEN THE BOLLARDS (UNLESS SIDESTRIPS ARE BEING USED, THEN SPACE AS SHOWN ON PLANS).
- ANY EXISTING IRRIGATION IN THE NEW ASSOCIATION AREA IS TO BE REMOVED AND TURNED OVER TO THE RESPECTIVE OWNER. WHERE EXISTING SYSTEMS CURRENTLY IRRIGATE "ON-SITE" AND "OFF-SITE", CONTRACTOR SHALL SPLIT THESE SYSTEMS SO THAT ANY "ON-SITE" LANDSCAPED AREAS ARE STILL BEING IRRIGATED BY THE "ON-SITE" SYSTEMS. BUT THE PORTIONS OF THE SYSTEMS PREVIOUSLY IRRIGATING "OFF-SITE" AREAS ARE REMOVED FROM THE SYSTEMS. CUT AND CAP, REROUTE LATERAL LINES AND ADJUST HEAD LOCATIONS ETC. AS BEST DETERMINED IN THE FIELD. CONTRACTOR SHALL MAKE A DETAILED SITE INVESTIGATION PRIOR TO START OF WORK. ALL EXISTING SYSTEMS MUST BE LEFT IN AN OPERATIONAL CONDITION DURING CONSTRUCTION AND AT END OF WORK.
- ALL ASSOCIATION IRRIGATION SYSTEMS AS CALLED FOR ON THESE PLANS ARE TO BE INSTALLED WITH NEW PRODUCTS AS CALLED FOR BY THESE PLANS. CONTRACTOR MAY REUSE EXISTING MATERIALS WHERE NEEDED TO RETROFIT EXISTING SYSTEMS TO ACHIEVE THE GOAL STATED IN NUMBER 7 ABOVE.



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**\*\*NOTE\*\***  
 MAINLINE, LATERAL LINE, AND CONTROL WIRE SLEEVES ARE NOT SHOWN ON DRAWINGS. ALL LINES AND WIRES UNDER HARDSCAPE TO BE SLEEVED IN SCHEDULE 40 PVC SIZED PER SLEEVING CHART. ALL LINES AND WIRE ARE NOT TO BE LOCATED UNDER DISPLAY PADS (TYP.). ALL SLEEVE LOCATIONS TO BE APPROVED BY CITY INSPECTOR.

ALL HARDSCAPE IS PER CIVIL PLANS.  
 ADJUST ALL IRRIGATION ACCORDINGLY.



File W/R-3471

Underground Service Alert Call: TOLL FREE 1 - 800-227-2600 TWO WORKING DAYS BEFORE YOU DIG	<b>PRIVATE ENGINEERING NOTE</b> CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT. THE DESIGN PROFESSIONAL'S LIABILITY IS LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.	PREPARED UNDER THE DIRECTION OF: 	<b>CEG</b> CANTY ENGINEERING GROUP, INC. CIVIL ENGINEERING - PLANNING - SURVEYING 3120 CHICAGO AVENUE, SUITE 180, P.O. BOX 52050, RIVERSIDE, CA 92517 TEL (909) 683 - 5234 FAX (909) 683 - 5301	CITY OF RIVERSIDE, DEPARTMENT OF PUBLIC WORKS	IN THE CITY OF RIVERSIDE, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA LANDSCAPE ARCHITECTURAL PLANS FOR AUTO CENTER RENOVATION	PROJECT NO. R-3471
		REGISTERED LANDSCAPE ARCHITECT NO. 2110 EXPIRATION DATE: 10/19/20			APPROVED BY: 	APPROVED BY: PRINCIPAL ENGR. _____ BY DATE _____ PARK DEPARTMENT _____ TRAFFIC DIVISION _____ CHIEF P. ENGR. _____