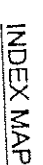


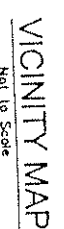
✓ DRAWINGS DELETED IN 2010

SHT. NO.		SHEET TITLE
1	L-100	TITLE SHEET
2	L-101	KEY MAP GENERAL NOTES, ABBREVIATIONS & SYMBOLS
3	C-1	GENERAL NOTES, KEY MAP
4	C-2	LEGEND, ABBREVIATION, CONSTRUCTION NOTES
5	C-3	PRECISE GRADING PLAN
6	C-4	PRECISE GRADING PLAN
7	C-5	PRECISE GRADING PLAN
8	C-6	PRECISE GRADING PLAN
9	C-7	STORM DRAIN PLAN
10	C-8	STORM DRAIN PLAN
11	C-9	STORM DRAIN PLAN
12	C-10	STORM DRAIN PLAN
13	C-11	STORM DRAIN PLAN
14	L-200	CONSTRUCTION MATERIALS SCHEDULE
15	L-301	CONSTRUCTION PLAN
16	L-302	CONSTRUCTION PLAN
17	L-303	CONSTRUCTION PLAN
18	L-304	CONSTRUCTION PLAN (BUS STOP EXTENSION)
19	L-305	CONSTRUCTION PLAN (BUS STOP EXTENSION)
20	L-400	PAVING ENLARGEMENT PLANS
21	L-401	FOUNTAIN FEATURE ENLARGEMENT PLANS
22	L-600	CONSTRUCTION DETAILS
23	L-601	CONSTRUCTION DETAILS
24	L-602	CONSTRUCTION DETAILS
25	L-603	CONSTRUCTION DETAILS
26	L-604	CONSTRUCTION DETAILS
27	L-700	IRRIGATION LEGEND
28	L-701	IRRIGATION PLAN - TREES
29	L-702	IRRIGATION PLAN - TREES
30	L-703	IRRIGATION PLAN - TREES
31	L-704	IRRIGATION PLAN - TREES
32	L-711	IRRIGATION PLAN - SHRUBS
33	L-712	IRRIGATION PLAN - SHRUBS
34	L-713	IRRIGATION PLAN - SHRUBS
35	L-714	IRRIGATION PLAN - SHRUBS
36	L-750	IRRIGATION DETAILS
37	L-751	IRRIGATION DETAILS
38	L-752	IRRIGATION DETAILS
39	L-800	PLANTING LEGENDS
40	L-801	TREE PLANTING PLAN
41	L-802	TREE PLANTING PLAN
42	L-803	TREE PLANTING PLAN
43	L-804	TREE PLANTING PLAN
44	L-900	PLANTING ZONE PLAN
45	L-901	SHRUB PLANTING PLAN
46	L-902	SHRUB PLANTING PLAN
47	L-903	SHRUB PLANTING PLAN
48	L-904	SHRUB PLANTING PLAN
49	L-1000	PLANTING DETAILS
50	E-100	SITE ELECTRICAL PLAN
51	E-200	SITE LIGHTING PHOTOMETRIC PLAN (SECURITY LIGHTING AREAS ONLY)
52	E-201	SITE LIGHTING PHOTOMETRIC PLAN (PHASE 1 SITE)
53	E-300	SINGLE LINE DIAGRAM
54	E-400	ELECTRICAL DETAILS
55	E-500	PANEL SCHEDULES AND PICTURE SCHEDULE
56	W10	WATER FEATURE PLAN
57	W20	EQUIPMENT VAULT PLAN
58	W30	WATER FEATURE DETAILS
59	W3.1	WATER FEATURE DETAILS
60	W40	WATER FEATURE DETAILS
61	W4.1	WATER FEATURE DETAILS
62	W4.2	WATER FEATURE DETAILS
63	W4.3	WATER FEATURE DETAILS
64	W4.4	WATER FEATURE DETAILS
65	RP5-1	IRRIGATION PLAN - TREES (RP-5)
66	RP5-2	IRRIGATION PLAN - SHRUBS (RP-5)
67	RP5-3	TREE PLANTING PLAN - (RP-5)
68	RP5-4	SHRUB PLANTING PLAN - (RP-5)

Part. Paper 1



INDEX MAP

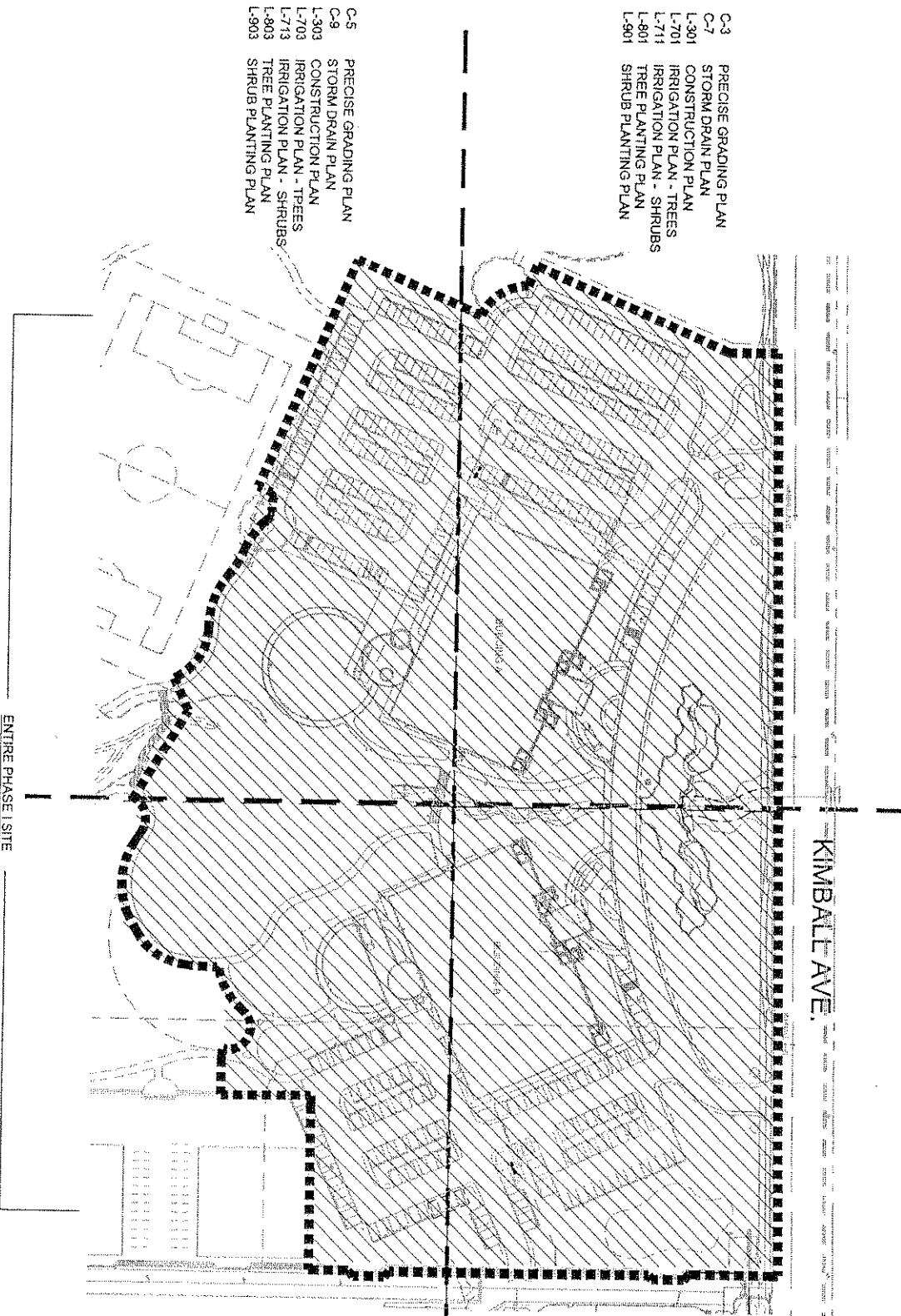


VICINITY MAP

SHEET NO	1 OF 64
HTD JOB NO	01139.02
DRAWING	L-1

AEI-CASC Engineering
937 South Via Lata, Suite 500
Cotton, CA 92324
Contact: Barbara Sherman
Ph: 909-783-0101
Fax: 909-783-0108
bsherman@aei-casc.com

KEY MAP OF SHEETS



ENTIRE PHASE I SITE
E-100 SITE ELECTRICAL PLAN
E-200 SITE LIGHTING PHOTOMETRIC PLAN (SECURITY ONLY)
E-201 SITE LIGHTING PHOTOMETRIC PLAN (PHASE I SITE)

C-3 PRECISE GRADING PLAN
C-7 STORM DRAIN PLAN
L-301 CONSTRUCTION PLAN
L-701 IRRIGATION PLAN - TREES
L-801 TREE PLANTING PLAN
L-901 SHRUB PLANTING PLAN

C-4 PRECISE GRADING PLAN
C-8 STORM DRAIN PLAN
L-302 CONSTRUCTION PLAN
L-702 IRRIGATION PLAN - TREES
L-712 IRRIGATION PLAN - SHRUBS
L-802 TREE PLANTING PLAN
L-902 SHRUB PLANTING PLAN

C-5 PRECISE GRADING PLAN
C-9 STORM DRAIN PLAN
L-303 CONSTRUCTION PLAN
L-703 IRRIGATION PLAN - TREES
L-803 TREE PLANTING PLAN
L-903 SHRUB PLANTING PLAN

C-6 PRECISE GRADING PLAN
C-10 STORM DRAIN PLAN
L-304 CONSTRUCTION PLAN
L-704 IRRIGATION PLAN - TREES
L-714 IRRIGATION PLAN - SHRUBS
L-804 TREE PLANTING PLAN
L-904 SHRUB PLANTING PLAN

SYMBOL LEGEND

- PHASE LINE - LIMIT OF WORK PHASE I
- SHEET MATCHLINE
- PLANTING AREA
- P.I.V. - FIRE STANDPIPE
SEE BLDG. UTILITY PLANS
- FIRE HYDRANT LOCATION -
SEE BLDG. UTILITY PLANS

DRAWING REFERENCES

SECTION / ELEVATION

NUMBER FOR DETAIL
LETTER FOR SECTION, ELEVATION
L-000
SHEET ON WHICH SECTION OCCURS

REVISION

REVISION NUMBER
REVISED AREA CLOUDED

MISCELLANEOUS

CONSTRUCTION NOTE, REFER TO THE
CONSTRUCTION MATERIALS SCHEDULES
P-1
SHEET L-200

ABBREVIATIONS

- AC ASPHALT CONCRETE
- ACP CAST IN PLACE
- CLM CENTERLINE
- CMU CONCRETE MASONRY UNIT
- DWG DRAWING
- ELEC ELECTRICAL
- ELEV ELEVATION
- EXIST EXISTING
- FG FINISH GRADE
- FG FINISH GRADE
- FH FIRE HYDRANT
- FFE FINISH FLOOR ELEVATION
- FL FLOW LINE
- FS FINISH SURFACE
- FTS FINISH TOP SURFACE
- GLV GROUND LEVEL
- GV GATE VALVE
- LA LANDSCAPE ARCHITECT
- LA MAXIMUM
- MIN MINIMUM
- MISC MISCELLANEOUS
- NTS NOT TO SCALE
- OC ON CENTER
- PA PLANTING AREA
- POC POINT OF CONNECTION
- R RADIUS
- SHT SHEET
- SPEC SPECIFICATIONS
- STA STATION
- TBD TO BE DETERMINED
- TBS TO BE SELECTED
- THK THICK
- TYP TYPICAL
- W/ WITH
- BVC-BEGINNING OF VERTICAL CURVE
- EVC-END OF VERTICAL CURVE
- EP-EDGE OF PAVEMENT
- PRC-POINT OF REVERSE CURVE
- BOR-BEGINNING CURB RETURN
- ECR-END CURB RETURN
- SL-STREET LIGHT
- RM-RIGHT OF WAY
- CAB-CRUSHED AGGREGATE BASE

2500 michelson dr
suite 125
irvine ca 92612
949.250.0023
949.250.0043 f

Designed
Drawn
Checked
Date

REV. NO.	DATE	BY	APPROV.	DESCRIPTION

REVIEWED BY:

Project Manager for E&U

SCALE
AS SHOWN
By Scale shown above is not
to be used as a basis for
any other work on this project.
Official scales accompany
0' 1'



SCALE: 1"=80'-0"

INLAND EMPIRE UTILITIES AGENCY
A Municipal Water District
3400 Cherry Avenue, Building 7
Folsom, California 95733
Telephone (916) 357-0241
FACILEX (916) 357-0241

LEUA HEADQUARTERS
PHASE I - PROJECT # EN 02038
KEY MAP, GENERAL NOTES
ABBREVIATIONS & SYMBOLS

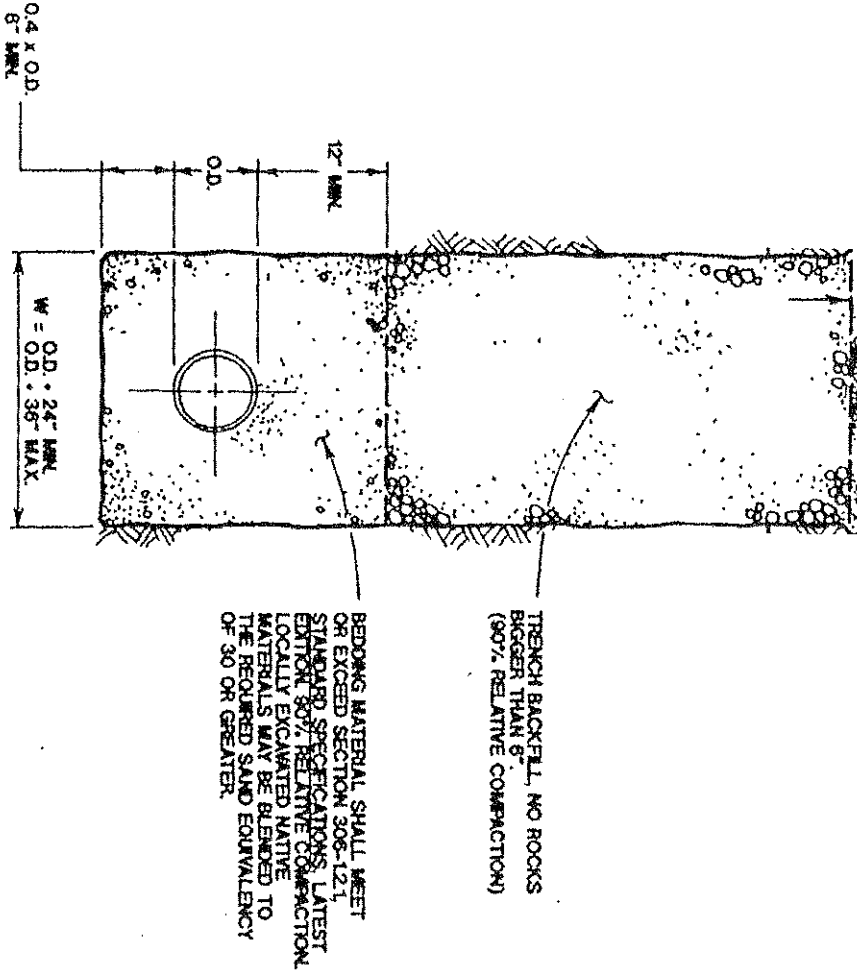
SHEET NO.
2 OF 64
info JOB NO.
01139.02
DRAWING NO.
L-101

GENERAL NOTES

- 1 THESE DRAWINGS AND THE DATA HEREIN ARE MADE PART OF THE SPECIFICATIONS.
- 2 WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF CHINO STANDARD DRAWINGS, STANDARD SPECIAL PROVISIONS, SPECIAL PROJECT PROVISIONS, AND STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION WITH SUPPLEMENTS. GENERAL NOTES SHALL BE APPROVED BY THE ENGINEER.
- 3 MATERIALS AND METHODS SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.
- 4 INSPECTION SHALL BE CALLED FOR THROUGH THE PROJECT ENGINEER, 48 HOURS PRIOR TO STARTING WORK.
- 5 PRIOR TO CONSTRUCTION WORK, ALL CONTRACTORS, INCLUDING SUBCONTRACTORS, SHALL OBTAIN A CITY BUSINESS LICENSE.
- 6 STATE LAW SB 3019 REQUIRES THE CONTRACTOR TO OBTAIN AN IDENTIFICATION NUMBER FROM UNDERGROUND SERVICE ALERT PRIOR TO THE ISSUANCE OF A CITY ENCROACHMENT PERMIT. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT TWO FULL WORKING DAYS (48 HOURS MINIMUM) IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES, INCLUDING PAVEMENT REMOVAL, EXCAVATION AND A.C. OVERLAY, WHICH COULD AFFECT ANY UNDERGROUND UTILITY.
- 7 ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE HIMSELF WITH THE SITE AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM HIS OPERATIONS, WHETHER OR NOT SUCH FACILITIES ARE SHOWN ON THE PLANS.
- 8 PRIOR TO ANY CONSTRUCTION WORK WHICH COULD DAMAGE OR CONFLICT WITH UNDERGROUND STRUCTURES OR UTILITIES, THE CONTRACTOR SHALL EXCAVATE INSPECTION HOLES TO DETERMINE THE LOCATION AND DEPTH OF SAID STRUCTURES AND UTILITIES IN THE VICINITY OF, OR WHICH MAY BE AFFECTED BY, THE PROPOSED IMPROVEMENT WORK.
- 9 PRIOR TO TAKING WATER FROM A HYDRANT, THE CONTRACTOR SHALL MAKE ARRANGEMENTS TO OBTAIN A CITY HYDRANT WATER METER.
- 10 SURVEY MONUMENTS SHALL BE PROTECTED AND PERPETUATED IN PLACE. DISTURBED OR COVERED MONUMENTS SHALL BE RESET BY A REGISTERED CIVIL ENGINEER OR A LICENSED LAND SURVEYOR.
- 11 NEW AND EXISTING MANHOLES AND VALVE CANS SHALL BE ADJUSTED TO GRADE.
- 12 IF EXISTING UTILITIES OR OTHER FACILITIES CONFLICT WITH THE PROPOSED IMPROVEMENTS, WORK SHALL STOP AND THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- 13 THE CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED OR ALTERED EXISTING IMPROVEMENTS WITHIN THE PUBLIC RIGHT-OF-WAY AS DIRECTED BY THE ENGINEER IN THE FIELD.
- 14 THE CONTRACTOR SHALL MAINTAIN DUST CONTROL AT ALL TIMES.
- 15 ALL CONSTRUCTION DEBRIS INCLUDING DUST, DIRT, AND ANY OTHER TYPE OF SCRAP MUST BE DISPOSED THROUGH THE SOLID WASTE SYSTEM PER LEED REQUIREMENTS. IT IS STRICTLY PROHIBITED TO WASH ANY DUST, DIRT, SCRAP, OR OTHER MATERIAL TO THE STREET AND/OR STORM DRAIN SYSTEM.
- 16 CARE SHALL BE TAKEN TO PREVENT GRADED DITCHES AND SWALES FROM UNDERMINING STREET IMPROVEMENTS.
- 17 TRENCH BACKFILL SHALL BE DONE IN ACCORDANCE WITH TRENCH BACKFILL DETAIL SHEET C-1.
- 18 THE CONTRACTOR SHALL NOT ORDER OR PLACE ANY CONCRETE UNTIL FORMS AND REINFORCING STEEL HAVE BEEN INSPECTED AND APPROVED BY THE ENGINEER IN THE FIELD.

GENERAL NOTES CONT.

- 19 THE CONTRACTOR SHALL REMOVE AND INSTALL PAVEMENT MARKINGS AND STRIPING AS REQUIRED BY THE ENGINEER IN THE FIELD. THIS REQUIREMENT SHALL INCLUDE THE PAVEMENT MARKERS DESCRIBED IN THE HYDRANT SPECIFICATION.
- 20 "AS-BUILT" RECORD DRAWINGS SHALL BE FURNISHED TO THE PROJECT ENGINEER UPON COMPLETION OF CONSTRUCTION.
- 21 APPROVAL OF THESE PLANS BY THE CITY OR ITS AGENTS SHALL NOT RELIEVE THE CONTRACTOR OR THE APPLICANT FROM THE RESPONSIBILITY FOR THE CORRECTION OF ERRORS OR OMISSIONS DISCOVERED DURING CONSTRUCTION. UPON REQUEST, THE APPROPRIATE REVISIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
- 22 ALL STRUCTURAL CONCRETE FOR CONNECTION TO THE S.B.C.F.C.D. ROB SHALL BE 4000 PSI WITH 'A' GRADATION IN ALL INVERTS AND 4000 PSI WITH 'B' GRADATION FOR ALL WALLS. CONCRETE MIX DESIGNS SHALL BE SUBMITTED TO THE DISTRICT FOR REVIEW AND APPROVAL AT LEAST THREE (3) WORKING DAYS PRIOR TO CONCRETE PLACEMENT WITHIN THE DISTRICT R/W.



TRENCH BACKFILL DETAIL

NTS

PRECISE GRADING 100% SUBMITTAL

pgrod-ent1.dwg

10/22/02 07:57

12/19/02 - BID SET

AGELCASC

937 SOUTH VIA LATA

SUITE 500

COLON, CA 92324

TEL (951) 765-0101 FAX (951) 765-0102

REGISTERED PROFESSIONAL ENGINEER

NO. 12776

EXPIRATION DATE 12/31/04

Designed _____

Drawn _____

Checked _____

Issued _____

REV. NO.

DATE

BY

APPROV.

DESCRIPTION

REVIEWED BY: _____

Project Manager for E&C _____

DATE _____

AS SHOWN

By showing dimensions relative to the centerline of the existing or proposed roadway, the contractor shall be responsible for maintaining the correct location of the structure.

INLAND EMPIRE UTILITIES AGENCY

A Municipal Water District

10000 E. Main Street, Suite 100

Chino, California 91710

Phone: (951) 361-3344

DESIGNED BY

DATE

PROJECT NO.

PROJECT NAME

PHASE 1 - PROJECT # EN 02038

GENERAL NOTES, KEY MAP

SHEET NO.

3 OF 61

DATE

3/4/02

DESIGNED BY

C-1

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.

ALL CONTRACTOR AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS" OF THE U.S. DEPARTMENT OF LABOR AND WITH THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS "CONSTRUCTION SAFETY ORDER". THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR THE CONTRACTOR OR SUBCONTRACTORS COMPLIANCE WITH THE SAID REGULATIONS AND ORDERS.

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OF STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR, SO THAT ANY NECESSARY ADJUSTMENT CAN BE MADE IN ALIGNMENT AND/OR GRADE OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURE TO PROTECT ANY UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

SD

S

W

SAWPA

G

T

C

EXISTING STORM DRAIN

EXISTING SEWER LINE

EXISTING WATER LINE

EXISTING SAWPA WATER LINE

EXISTING GAS LINE

EXISTING TELEPHONE LINE

CENTER LINE

EXISTING R/W

PROPOSED R/W

PROPOSED STORM DRAIN

BRISTOL NO.	4 OF 61
JCS NO.	34602
BRISTOL NO.	C-2

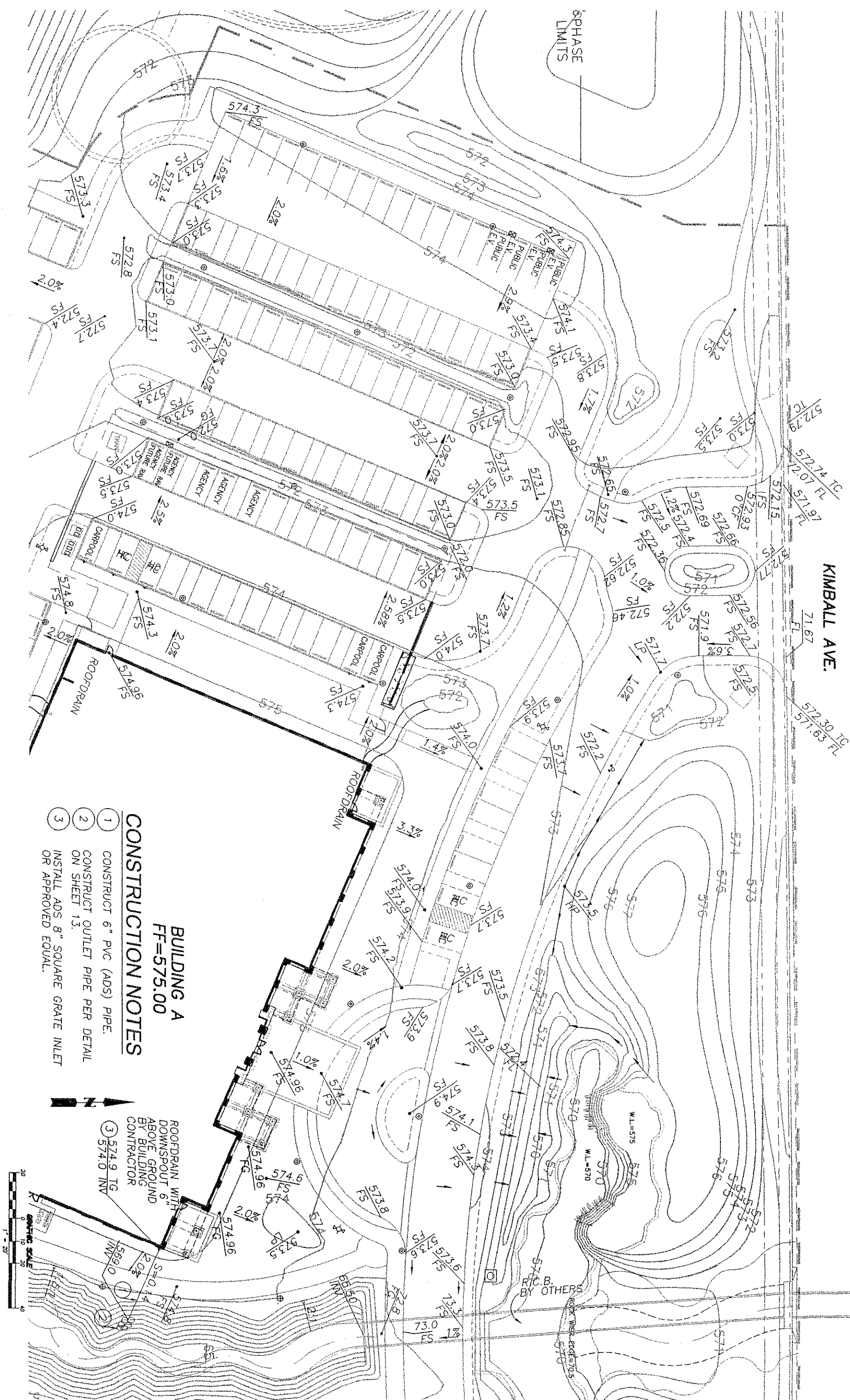
REVIEWED BY: _____ Date: _____
Product Manager for IBM _____

AS SHOWN
By Space design before in
high on original drawing. It
not use back on this board
original reader. copyright.

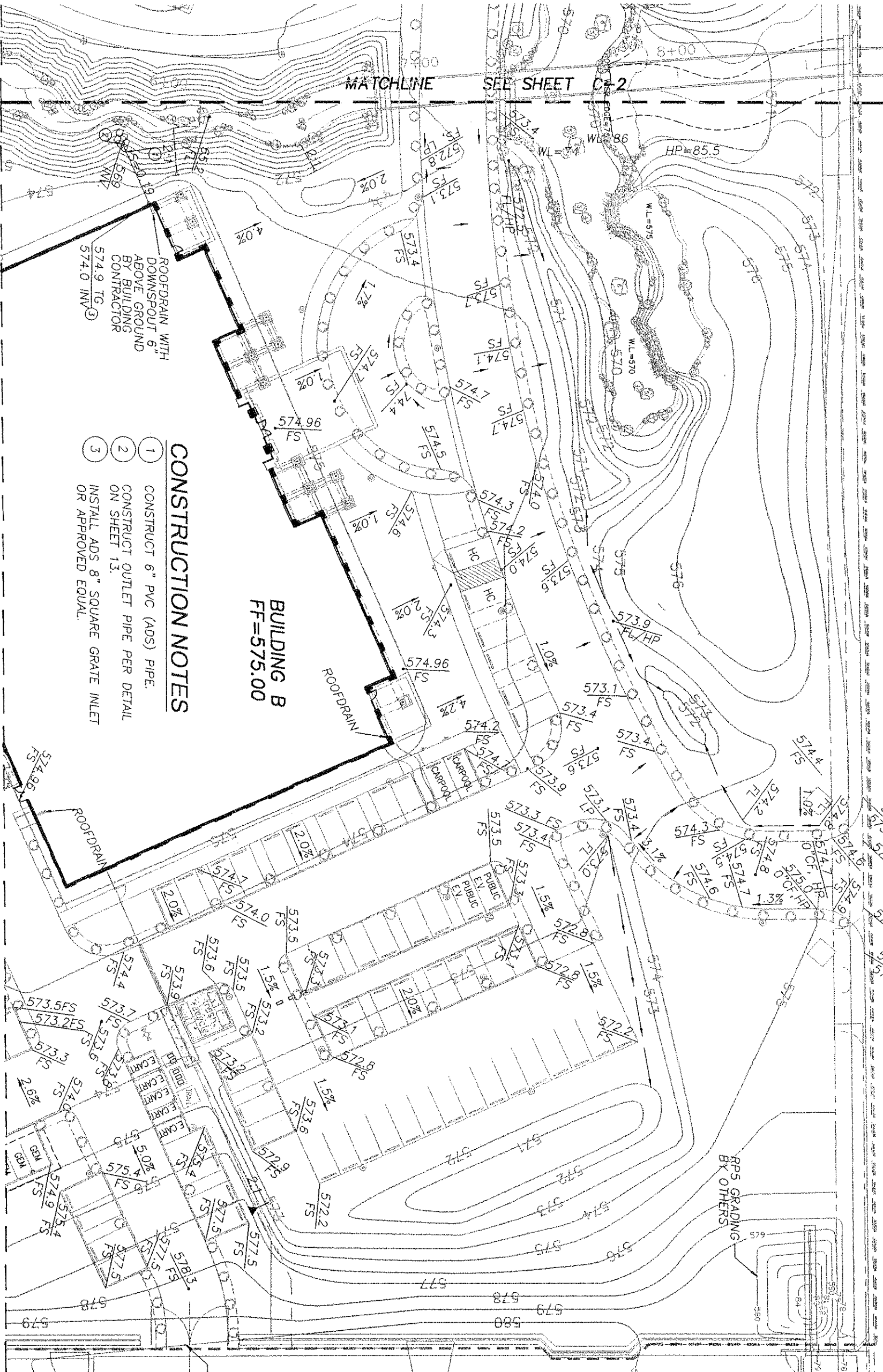
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I.E.U.A. HEADQUARTERS
PHASE 1 - PROJECT # EN 02038
PRECISE GRADING PLAN

5 of 6
JAN 1971
34202
C-3



KIMBALL AVE.



CONSTRUCTION NOTES

1. CONSTRUCT 6" PVC (ADS) PIPE.
2. CONSTRUCT OUTLET PIPE PER DETAIL ON SHEET 13.
3. INSTALL ADS 8" SQUARE GRATE INLET OR APPROVED EQUAL.

BUILDING B
FF=575.00

MATCHLINE SEE SHEET C-6



AEI-CASC
937 SOUTH VIA LATA
COLTON, CA 92324
TEL (909) 783-0101 FAX (909) 783-0108



Designed	Checked	Date	Rev.	No.	Date	By	App'd	Description

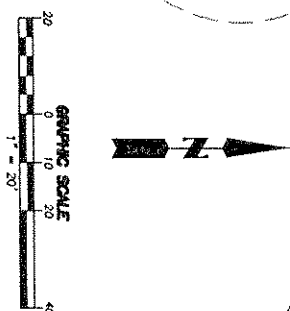
REVIEWED BY: _____
Project Manager for AEI-CASC

SCALE
AS SHOWN
1" = 10'

INLAND EMPIRE UTILITIES AGENCY
A Subsidiary of Inland Empire Water District
10000 Inland Empire Blvd., Suite 100
Inland Empire, CA 92404
Tel: (951) 780-1000 Fax: (951) 780-1001

LEUA HEADQUARTERS
PHASE 1 - PROJECT # EN 02038
PRECISE GRADING PLAN
SHEET NO. 6 OF 61
DATE 12/18/02
DRAWN BY C-4

MATCHLINE SEE SHEET C-6



1. CONSTRUCT 6" PVC (ADS) PIPE.
2. INSTALL ADS 8" SQUARE GRATE INLET OR APPROVED EQUAL.
- 3.

7 of 61
JOB NO. 34602
DRAWING NO. C-5

CONSTRUCTION NOTES

1. CONSTRUCT 6" PVC (ADS) PIPE.
3. INSTALL ADS 8" SQUARE GRATE INLET OR APPROVED EQUAL.

BUILDING B
FF=575.00

ROOF DRAIN WITH
DOWNSPOUT 6"
ABOVE GROUND
BY BUILDING
CONTRACTOR

PHASE
LIMITS

AEI-CASC

937 SOUTH VIA LATA
SUITE 500
COLTON, CA 92324
FAX (909) 763-0108
(909) 763-0101

[illegible]

RECEIVED BY: _____ Date: _____

Project Manager for ISSA: _____

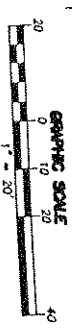
SCALE
AS SHOWN
Our Grade shown below is for
high on exposed ground. It
may vary on the rock
exposed under overburden.
6' maximum 1"



INLAND EMPIRE UTILITIES AGENCY
A Wholesaler Water District
1400 E. 1st Avenue, Building A
P.O. Box 10000, Colorado Springs
Colorado 80901
Telephone (303) 532-0941
Fax (303) 532-0941

I.E.U.A. HEADQUARTERS
PHASE 1 - PROJECT # EN 02038
PRECISE GRADING PLAN

8	0	6
2000	2000	2000
2000	2000	2000





Revised	M.G./C.A.	12/14/82				
Drawn	O.E.	02/14/82				
Checked	C.A.	02/14/82				
		See	REV. NO.	DATE	BY	APPROD
						DESCRIPTION

REVIEWED BY: _____

Special Agent in Charge _____

AS SHOWN
SCALE
1"

INLAND EMPIRE UTILITIES AGENCY

A Standalone Water District

**1000 E. 10th Street, Suite 100
Tulsa, Oklahoma 74103
Phone 918-438-0911**

**FOR A FREE CATALOG
OF OUR PRODUCTS
PLEASE CONTACT:**

**Mr. J. L. Gentry
Inland Empire
P.O. Box 100
Tulsa, Oklahoma 74103
Phone 918-438-0911**

PHASE 1 - PROJECT # EN 02038
WATER QUALITY MANAGEMENT
AND DRAINAGE PLAN

9 of 61
JOB NO. 540022
DRAWING NO. C-7

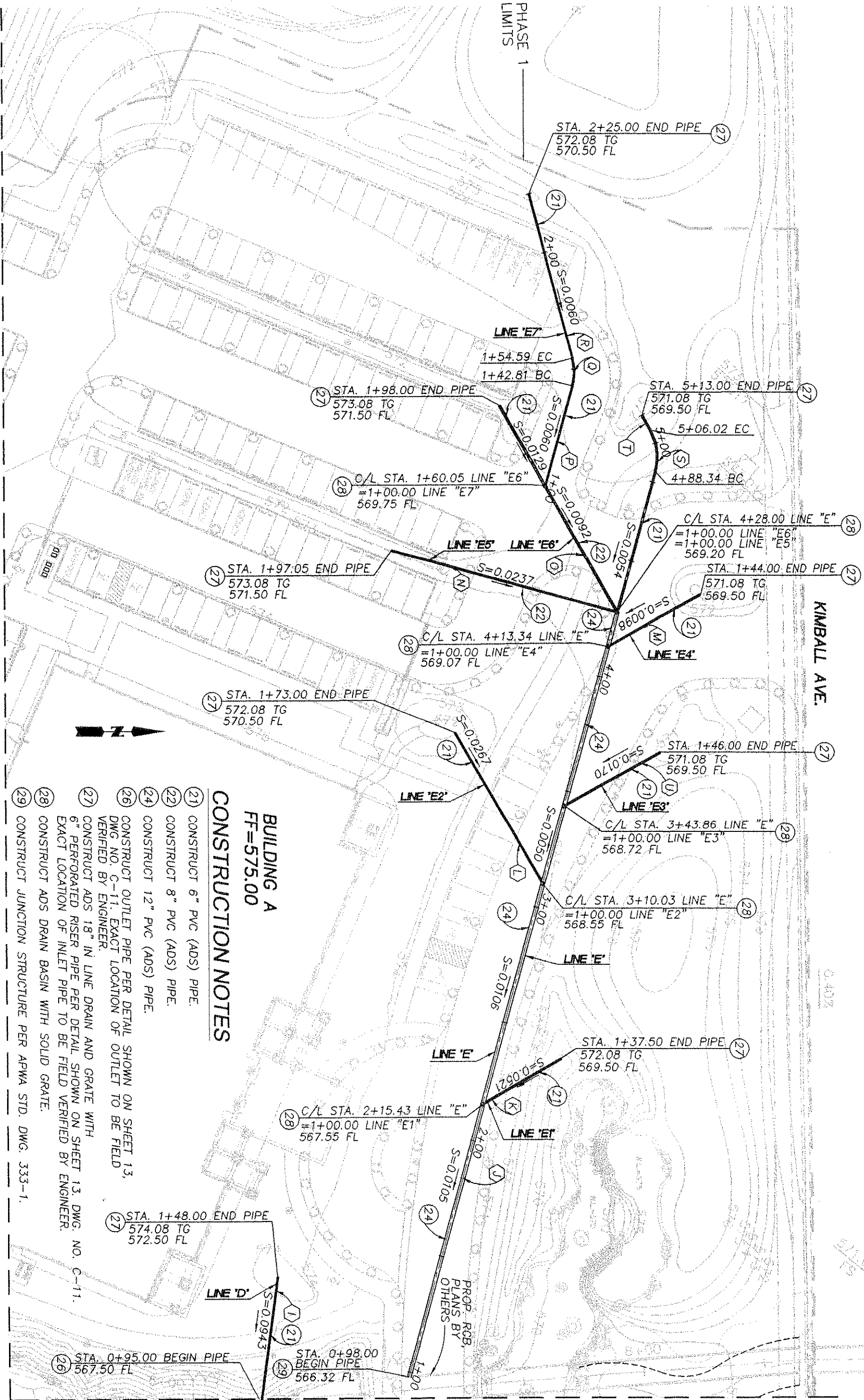
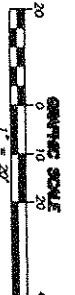


SEE SHEET 11, DWG NO. C-9

CONSTRUCTION NOTES

BUILDING A
FF=575.00

- (21) CONSTRUCT 6" PVC (ADS) PIPE.
(22) CONSTRUCT 8" PVC (ADS) PIPE.
(24) CONSTRUCT 12" PVC (ADS) PIPE.
(26) CONSTRUCT OUTLET PIPE PER DETAIL SHOWN ON SHEET 13, DWG NO. C-11. EXACT LOCATION OF OUTLET TO BE FIELD VERIFIED BY ENGINEER.
(27) CONSTRUCT ADS 18" IN LINE DRAIN AND GRATE WITH 6" PERFORATED RISER PIPE PER DETAIL SHOWN ON SHEET 13, DWG. NO. C-11. EXACT LOCATION OF INLET PIPE TO BE FIELD VERIFIED BY ENGINEER.
(28) CONSTRUCT ADS DRAIN BASIN WITH SOLID GRATE.
(29) CONSTRUCT JUNCTION STRUCTURE PER APWA STD. DWG. 333-1.
- STA. 1+48.00
(27) 574.08 TG
572.50 FL



MATCHLINE

SEE SHEET 10, DWG NO. C-8

AEI-CASC
937 SOUTH VIA LATA
SUITE 500
COLTON, CA 92324
TEL (909) 733-0101 FAX (909) 733-0108



Designed	NA/CA	12/19/02			
Drawn	CA	12/19/02			
Checked	CA	12/19/02			
	Rev				
REV. NO.	DATE	BY	APPROV	DESCRIPTION	

REVIEWED BY:	
Project Manager for E&U	

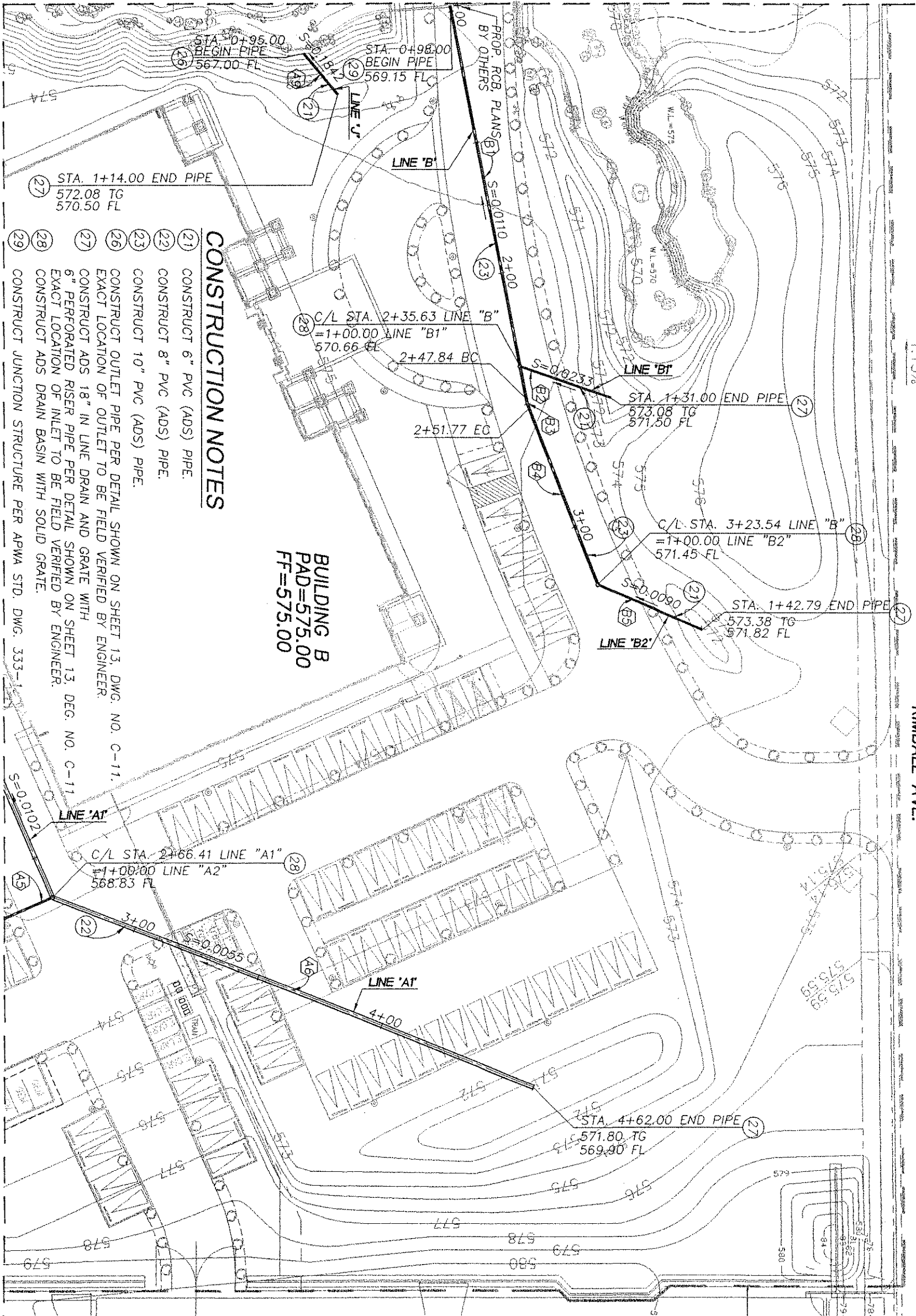
AS SHOWN
NOT TO BE USED FOR CONSTRUCTION
OF ANY OTHER PROJECT

INLAND EMPIRE UTILITIES AGENCY
A Standard Water District
14000 E. 1st Street, Suite 100
Brea, CA 92621
Tel: (949) 355-1111 Fax: (949) 355-1112

LEUA HEADQUARTERS
PHASE 1 - PROJECT # EN 02038
WATER QUALITY MANAGEMENT
AND DRAINAGE PLAN

SHEET NO. 10 OF 61
JOB NO. 34002
DRAWING NO. C-8

MATCHLINE SEE SHEET 9, DWG. NO. C-7



CONSTRUCTION NOTES

- 21 CONSTRUCT 6" PVC (ADS) PIPE.
- 22 CONSTRUCT 8" PVC (ADS) PIPE.
- 23 CONSTRUCT 10" PVC (ADS) PIPE.
- 26 CONSTRUCT OUTLET PIPE PER DETAIL SHOWN ON SHEET 13, DWG. NO. C-11.
- 27 EXACT LOCATION OF OUTLET TO BE FIELD VERIFIED BY ENGINEER.
- 27 CONSTRUCT ADS 18" IN LINE DRAIN AND GRATE WITH 6" PERFORATED RISER PIPE PER DETAIL SHOWN ON SHEET 13, DEC. NO. C-11.
- 28 EXACT LOCATION OF INLET TO BE FIELD VERIFIED BY ENGINEER.
- 28 CONSTRUCT ADS DRAIN BASIN WITH SOLID GRATE.
- 29 CONSTRUCT JUNCTION STRUCTURE PER APWA STD. DWG. 333-1.

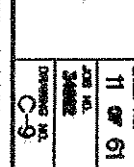
BUILDING B
PAD=575.00
FF=575.00

KIMBALL AVE.

MATCHLINE SEE SHEET 12, DWG. NO. C-10

PHASE 1
LIMITS





AEI-CASCO
337 SOUTH VIA LATA
SUITE 500
COLTON, CA 92324
TEL (909) 785-0101 FAX (909) 785-0108



Designed	8/6/02	Checked	8/6/02
Drawn	8/6/02	Reviewed	8/6/02
Standard	8/6/02	Sub	

REV. NO.	DATE	BY	APPROV.	DESCRIPTION

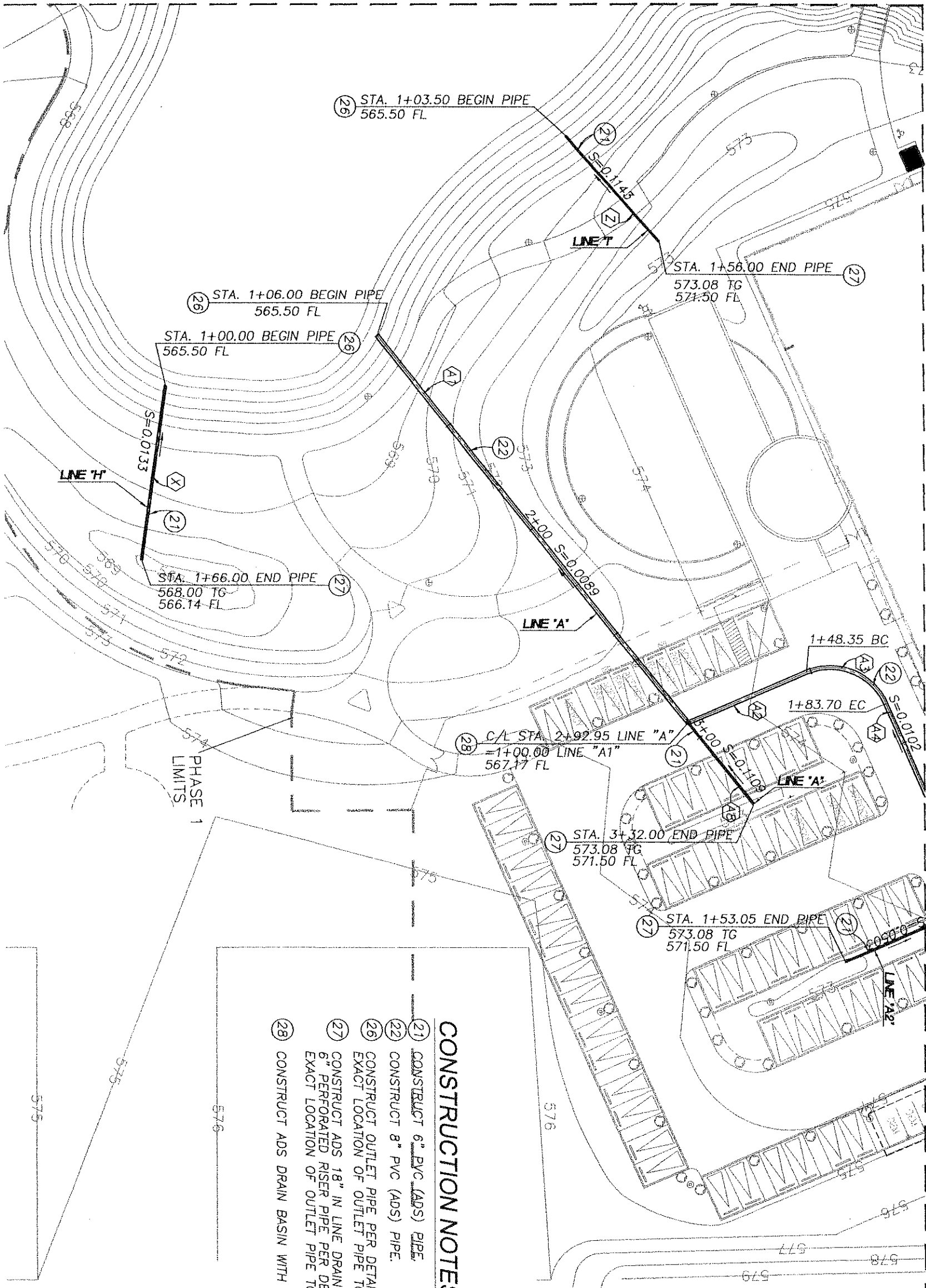
REVIEWED BY:	
Project Manager for this	

SCALE
AS SHOWN
1" = 20'

INLAND EMPIRE UTILITIES AGENCY
A Division of Inland Empire Water District
10000 East Main Street, Suite 200
Riverside, CA 92504
Phone: (951) 509-2000
Fax: (951) 509-2001

1EUA HEADQUARTERS
PHASE 1 - PROJECT # EN 02038
WATER QUALITY MANAGEMENT
STORM DRAIN PLAN
SHEET NO. 12 OF 61
JOB NO. 34902
DRAWING NO. C-10

MATCHLINE SEE SHEET 11, DWG. NO. C-9

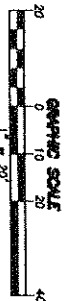


CONSTRUCTION NOTES

- 21 CONSTRUCT 6" PVC (ADS) PIPE.
- 22 CONSTRUCT 8" PVC (ADS) PIPE.
- 26 CONSTRUCT OUTLET PIPE PER DETAIL SHOWN ON SHEET 13, DWG. NO. C-11. EXACT LOCATION OF OUTLET PIPE TO BE FIELD VERIFIED BY ENGINEER.
- 27 CONSTRUCT ADS 18" IN LINE DRAIN AND GRATE WITH 6" PERFORATED RISER PIPE PER DETAIL SHOWN ON SHEET 13, DWG. NO. C-11. EXACT LOCATION OF OUTLET PIPE TO BE FIELD VERIFIED BY ENGINEER.
- 28 CONSTRUCT ADS DRAIN BASIN WITH SOLID GRATE.

PHASE 1 LIMITS

MATCHLINE SEE SHEET 10, DWG. NO. C-8

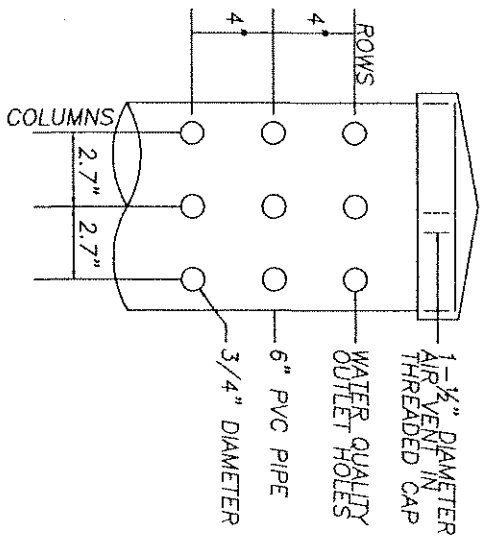
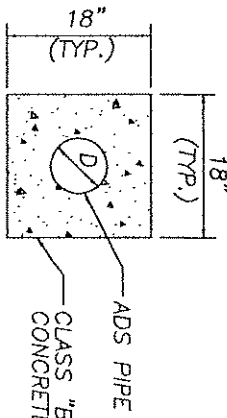
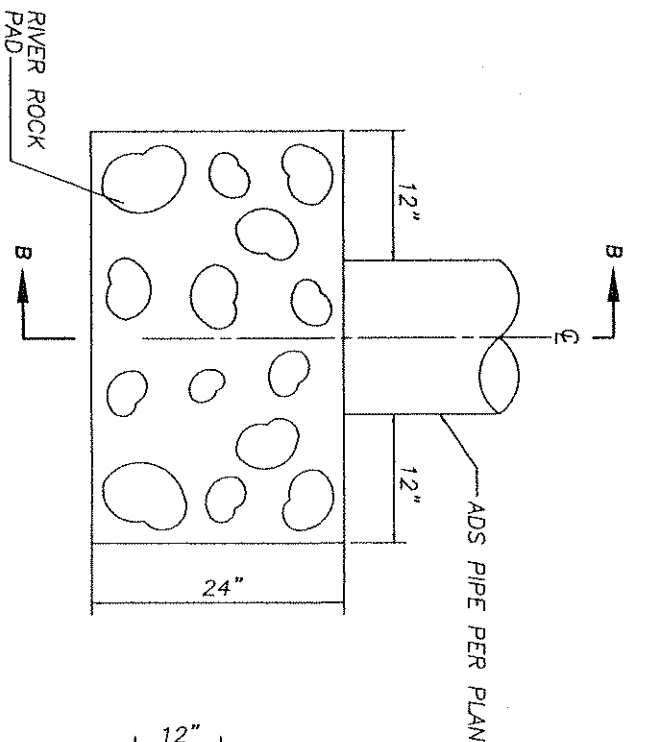
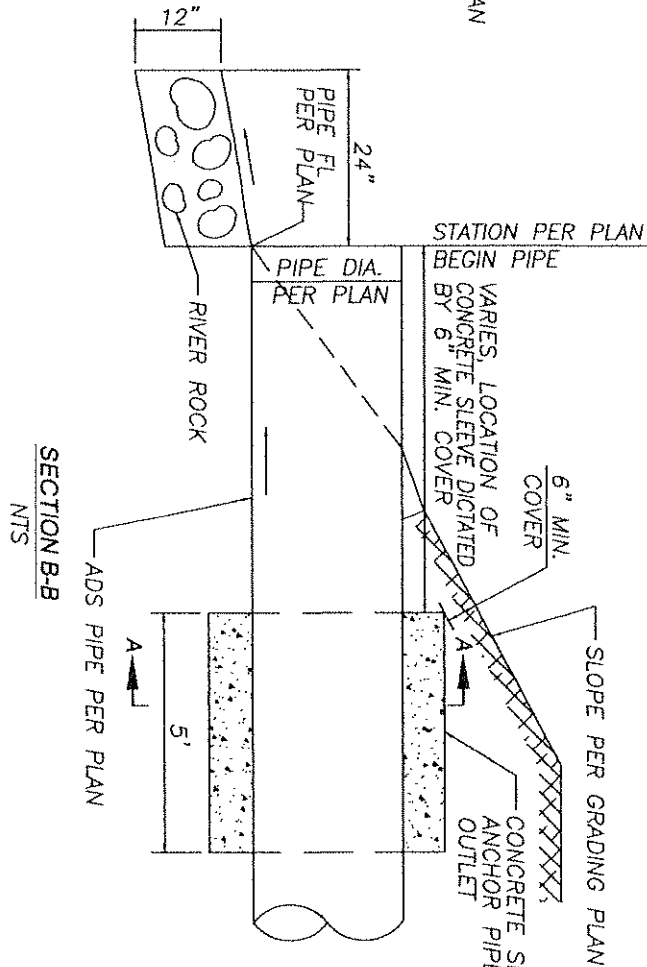


DATA

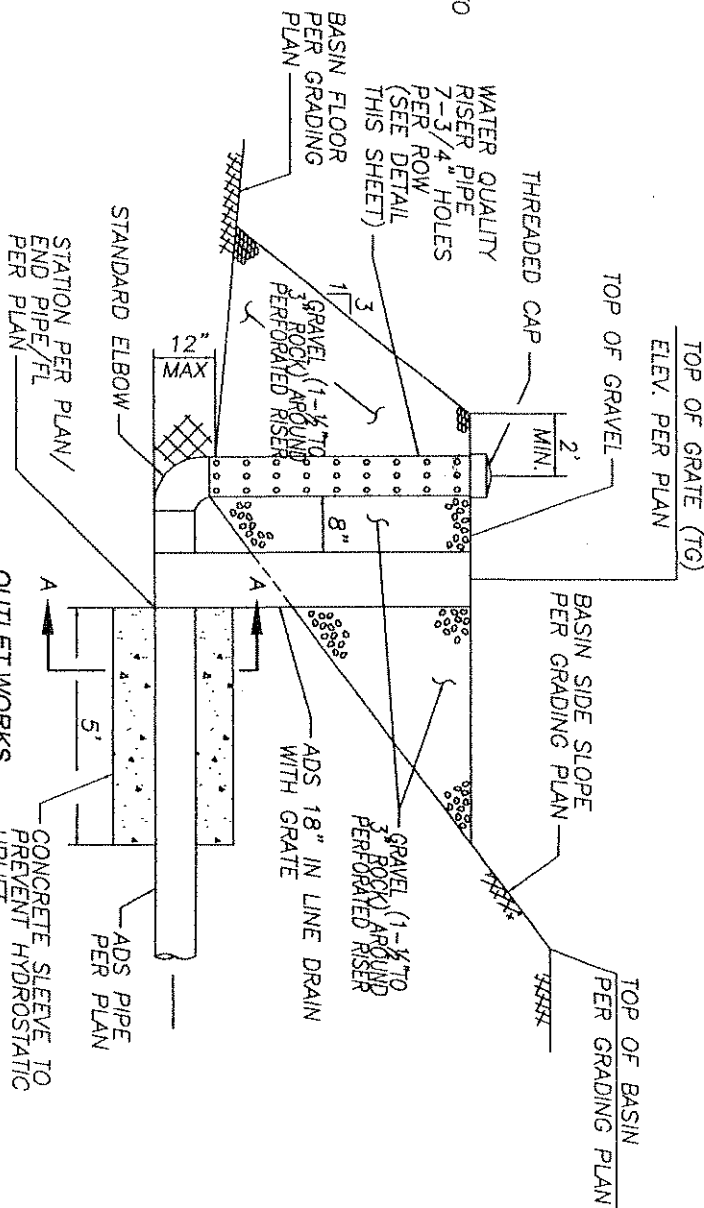
	DELTA/BEARING	RADIUS	LEN./DIST.	TANGENT
A	N62°28'19"E	-----	23.22'	-----
B	N21°51'11"W	-----	118.18'	-----
C	45°00'00"	22.50'	17.67'	9.32'
D	N66°51'11"W	-----	242.68'	-----
E	N46°51'11"W	-----	115.00'	-----
F	N21°51'11"W	-----	54.00'	-----
H	S84°41'14"E	-----	41.00'	-----
I	S82°22'06"E	-----	53.00'	-----
J	S74°30'45"E	-----	390.34'	-----
K	S29°30'45"E	-----	37.50'	-----
L	N60°29'15"W	-----	73.00'	-----
M	S29°30'45"E	-----	44.00'	-----
N	N15°29'15"E	-----	97.05'	-----
O	N60°29'15"E	-----	98.00'	-----
P	N74°30'45"W	-----	42.81'	-----
Q	30°00'00"	22.50'	11.78'	6.03'
R	S75°29'15"W	-----	70.41'	-----
S	45°00'00"	22.50'	17.67'	9.32'
T	N60°29'15"E	-----	6.99'	-----
U	S29°30'45"E	-----	46.00'	-----
V	N21°51'11"W	-----	45.00'	-----

DATA

	DELTA/BEARING	RADIUS	LEN./DIST.	TANGENT
X	N82°12'26"W	-----	66.00'	-----
Y	NOT USED	-----	-----	-----
Z	N48°52'47"E	-----	52.50'	-----
A1	N51°18'09"E	-----	186.95'	-----
A2	N23°41'51"W	-----	48.35'	-----
A3	90°02'03"	22.50'	35.36'	22.51'
A4	N66°20'12"E	-----	82.71'	-----
A5	N23°41'51"W	-----	53.05'	-----
A6	N21°20'12"E	-----	195.59'	-----
A7	NOT USED	-----	-----	-----
A8	N51°18'09"E	-----	39.05'	-----
A9	N49°39'52"E	-----	19.00'	-----
B1	N78°52'49"E	-----	147.84'	-----
B2	N18°52'49"E	-----	36.00'	-----
B3	10°00'00"	22.50'	3.93'	1.97'
B4	N68°52'49"E	-----	71.77'	-----
B5	N23°52'49"E	-----	42.79'	-----

WATER QUALITY
RISER PIPE DETAIL
NTSSECTION A-A
NTSOUTLET PIPE DETAIL
NTSSECTION B-B
NTS

NOTE: EXACT LOCATION OF INLET AND OUTLET PIPES TO BE FIELD VERIFIED BY ENGINEER

PERFORATED RISER PIPE
FOR FLOW CONTROL DETAIL
NTS

SITE FURNISHINGS SCHEDULE

DESCRIPTION		MANUFACTURER	MODEL #	COLOR	FINISH	COMMENTS OR DETAIL REFERENCE	DETAIL REF.
[SF1]	BKE RACKS - 4 RACKS EACH LOCATION (6 TOTAL SPACES)	AMERICAN BICYCLE	SW-6C-HOT DIP	HOT DIP GALV.	-	IMBEDDED MOUNT IN 9"x9" CONC. FOOTING. SPACE 30" APART	3/L-604
[SF2]	COMPOSITE WHEEL STOPS (RECYCLED MATERIALS)	Banco Products Company	WSTWHLSTP-DS	GREY	-	INSTALL PER MFG. RECOMMENDATIONS	2/L-604
[SF3]	COMPOSITE HEADER (RECYCLED MATERIALS)	Epic Plastics	BEND-A-BBOARD 2"x4"	REDWOOD BROWN	-	INSTALL PER MFG. RECOMMENDATIONS	6/L-601
[SF4]	SITE BOULDERS AT VEHICULAR EDGES (3'x3'x3')	ISA Info-Structure Aggregates	N/A	NATURAL	N/A	COLOR TO BE SELECTED AND APPROVED BY IMA+DESIGN	5/L-601
[SF5]	PRE FABRICATED BRIDGE WITH CONCRETE ABUTMENTS BY CONTRACTOR	EXCEL MFG. 562/944-0701 KENNETH LONGINO	WEATHERING STEEL	CORTEN STEEL - NATURAL WEATHERING	NATURAL	35' LONG X 8' WIDE ABUTMENTS NECESSARY. INSTALL PER MFG. RECOM. PROVIDE SUBMITTAL	N/A
[SF6]	MANUAL RETRACTABLE BOLLARDS AT FIRE ACCESS ROAD	G. Reale Enterprises	Model MI	PAINI BASALT GREEN-FRAZEE	N/A	INSTALL AT 42" ABOVE GRADE IN 12X12X18"D. CONCRETE FOOTING	N/A
[SF7]	PROTECTION BOLLARD AT P.I.V. STANDPIPE. 4-1/2" CONCRETE FILLED PIPE BOLLARD	N/A	N/A	PAINT BASALT GREEN-FRAZEE	N/A		N/A

MISCELLANEOUS MATERIALS SCHEDULE

TAG	DESCRIPTION	DETAIL REF.
[M1]	FOUNTAIN FEATURE - PUMPED CONCRETE BASIN AND SIDE WALLS. NATURAL BOULDERS ALONG EDGE. 50% COBBLE COVERAGE ON BOTTOM, STAINED FINISH	1/L-401 & SEE W-• SERIES DWGS
[M2]	PHOTOVOLTAIC TRELLIS STRUCTURE (+/- 130' x 22') OWNER PROVIDED AND INSTALLED	N/A
[M3]	ENTRY MONUMENT SIGNAGE - NOT IN CONTRACT. OWNER PROVIDED	N/A
[M4]	BUS STOP WITH 8' LONG BENCH - EXACT LOCATION DIRECTED BY IEUA	N/A
[M5]	HANDICAPPED PARKING OR CARPOOL SIGNAGE. MODEL SPECIFIED AVAILABLE FROM JOHN BISHOP DESIGNS	4/L-604
[M6]	3" THICK PUMPED CONCRETE STREAM CHANNEL. VARRING WIDTH - SEE W-• SERIES DRAWINGS	2/L-401
[M7]	PAINTED STRIPING ON CONC. AT PARKING BAYS, FIRE ACCESS LANE STRIPING (PER CHINO VALLEY FIRE)	SEE SPECS.
[M8]	ALTERNATE FUEL STATIONS (CAR CHARGERS) - OWNER PROVIDED AND INSTALLED (PROVIDE CONDUIT AND WIRE). SEE E-• SERIES DRAWINGS FOR TRANSFORMER	SEE E-• SERIES DWGS.
[M9]	FOUNTAIN PUMP VAULT - SEE W-• SERIES DRAWING SERIES	W-• SERIES
[M10]	DRY CREEK BED FEATURE	X/L-XXX
[M11]	ELECTRICAL TRANSFORMER PAD LOCATIONS FOR SITE, CAR CHARGERS AND PV TRELLIS. SEE E-• SERIES DWGS	E-• SERIES
[M12]	LIGHT POLE LOCATIONS - REFER TO E-• SERIES DRAWINGS FOR MFG. MODEL AND INSTALLATION	E-• SERIES
[M13]	CONDUIT TUB UP LOCATION FOR FUTURE AGENCY RAY4 DUAL CHARGING STATION	E-• SERIES
[M14]	WEATHERPROOF GFI ELECTRICAL DUAL OUTLETS MOUNTED ON 6" WOOD POST - SEE E-• SERIES ELEC DRAWINGS. E-• SERIES	

COORDINATION AND REFERENCE NOTES

TAG	DESCRIPTION
1	0" CURB - PAVEMENT FLUSH WITH ADJACENT GRADE
2	TRANSFORMER LOCATION - REFER TO BLDG. OR SITE ELECTRICAL PLANS
3	LOADING ZONE
4	FUTURE G.E.M. CARPORT BY OWNER
5	EXISTING CULVERT - BELOW
6	FIRE HYDRANT LOCATION - REFERENCE ONLY (REFER TO BLDG. UTILITY PLANS)
7	"MEADOW AREA" BOUNDARY LIMIT - TO BE STAKED IN FIELD. SEE PLANNING PLAN
8	VAN POOL PARKING
9	HANDICAPPED PARKING
10	P.I.V. FIRE STANDPIPE - REFERENCE ONLY (REFER TO BLDG. UTILITY PLANS)
11	FUTURE RP-S WALL (NOT IN CONTRACT)

CONSTRUCTION MATERIALS SCHEDULE
PAVING SCHEDULE

DESCRIPTION / MATERIAL	PATTERN	COLOR	FINISH	COMMENTS	DETAIL REF.
[P1] 4" ASPHALT PAVING w/ 6" CLASS II BASE	LOCATION PER PLANS	N/A	N/A	VEHICULAR AREAS, 0" CURB ALL EDGES, COMPOSITE HEADER EDGE	N/A
[P2] 4" STABILIZED DECOMPOSED GRANITE w/ 6" CL II BASE - VEHICULAR	VEHICULAR AREAS	CALIFORNIA	N/A	SUPPLIER & SPEC. GAIL MATERIALS 909/279-1095	4/L-601
[P3] 3" THK. STABILIZED DECOMPOSED GRANITE WALKS OVER COMPACTED SUBGRADE	PEDESTRIAN AREAS	CALIFORNIA	N/A	SUPPLIER & SPEC. GAIL MATERIALS 909/279-1095	3/L-601
[P4] PRE-CAST CONCRETE PAVERS - PERMEABLE / VEHICULAR	ECO-PAVER	SEE SCHEDULE	NATURAL	80 mm VEHICULAR AREAS ACKERSTONE 909/322-1719	1/L-600
[P5] PRE-CAST CONCRETE PAVERS -PEDESTRIAN	SEE ENLARGEMENT	SEE SCHEDULE	NATURAL	60 mm PEDESTRIAN AREAS ACKERSTONE 909/322-1719	1-400
[P5a] PRE-CAST CONCRETE PAVERS -VEHICULAR	SEE ENLARGEMENT	SEE SCHEDULE	NATURAL	80 mm VEHICULAR AREAS ACKERSTONE 909/322-1719	4/L-600
[P6] 4" WIDE, AGGREGATE MULCH TREAT WITH WEED ABATEMENT BELOW PRIOR TO INSTALL	3/4" CRUSHED. 3" DEEP	CALIFORNIA	N/A	DESERT ROCK SUPPLY 760/328-5877	1,3/L-6XX
[P7] 6" THK. NATURAL GREY CONCRETE INSIDE TRASH ENCLOSURES	8X8 TOOLED JOINT	NATURAL GRAY	TROWEL	-	4/L-600
[P8] 6" THK. NATURAL GRAY PERVIOUS CONCRETE BASE INFO IN DETAIL	8X8 TOOLED JOINT	NATURAL GRAY	TROWEL	DEMO AREA FOR HIGH ALBEDO (REFLECTIVITY) AND PERMEABILITY	5/L-600
[P9] DRAIN CHANNEL-GROUTED AGGREGATE ON MORTAR BED W/ HEADER @ ROOF DRAINS.	N/A	3/4" CALIFORNIA GOLD AGGREGATE	N/A	COMPOSITE HEADER AT EDGES	X/L-6XX
[P10] 12" WIDE X 4" THK. CONCRETE BAND ALONG ROLLING GATES	TOOLED JOINTS AT 3' OC	NATURAL GRAY	TROWEL	INSTALL ONLY WHERE GATE WILL SLIDE INTO PLANTING AREA	4/L-600
[P11] CONCRETE HANDICAP RAMP PER CITY OF CHINO STANDARD	PER CITY OF CHINO	NATURAL GRAY	MED. SANDBLAST	AT EL PRADO/KIMBALL CORNER	N/A

WALL SCHEDULE

DESCRIPTION / MATERIAL	COLOR	FINISH	COMMENTS	DETAIL REF.
[W2] 24"W. x 18"H. CAST IN PLACE CONCRETE SCAT WALL	INTEGRAL COLOR TYPE II - TB.S.	SMOOTH TROWEL	-	1/L-603
[W3] 6' HIGH CMU BLOCK -FREESTANDING TRASH ENCLOSURE WALL WITH CMU CAP	MATCH RP-5 PLANT PERIMETER WALL	SPLIT - NATURAL	-	3/L-602

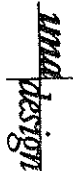
FENCE, GATE AND METALWORK SCHEDULE

TAG	DESCRIPTION / MATERIAL	HEIGHT	COLOR	COMMENTS	DETAIL REF.
[F1]	TUBULAR STEEL FENCE BY MASTER HALCO 800/989-4740: ALT 1: ESTATE 'V' IRON FENCING ALT 2: CLASSIC PREMIER - 3 PICKET	6' HEIGHT INSTALL PER MFG. REC. PROVIDE SHOP DWGS.	PAINT BASALT GREEN-FRAZEE C2-15 (5383)	ALCORN FENCE - RIVERSIDE BRANCH. FLAT TOP PICKETS & FLAT TOP POST CAP. PROVIDE SHOP DWGS.	2/L-603
[F2]	MANUAL DOUBLE SWING TUBULAR STEEL GATE @ RPS WALL TO MATCH F1 FENCING	MATCH HEIGHT OF RP-5 WALL	BASALT GREEN FRAZEE C2-15 (5383)	VERIFY W/ IEUA TYPE OF LOCKING NECESSITY. PROVIDE SHOP DWGS.	2/L-603
[F3]	FRAMED CORRUGATED METAL HINGED GATE AT TRASH ENCLOSURES	SEE DETAIL	PAINT BASALT GREEN-FRAZEE C2-15 (5383)	-	1,2/L-602
[F4]	4" WIDE GATES - TO MATCH F1-F4 FENCING	6' HT.	BASALT GREEN FRAZEE C2-15 (5383)	PROVIDE LOCK WITH PANIC BAR HARDWARE INSIDE. PROVIDE SHOP DRAWINGS	2/L-603
[F6]	ELECTRIC SLIDING GATES AT EMPLOYEE PARKING - TO MATCH F1-F4 FENCING WITH CARD KEY ACCESS AND SAFETY LOOPS	6' HT. GATE	PAINT BASALT GREEN-FRAZEE C2-15 (5383)	ELITE ACCESS SYSTEMS GATE OPERATOR 949/580-1700. MODEL: SL-3000-UL PROVIDE SHOP DRAWINGS	1/L-604
[F7]	MANUAL SWINGING BARRIER GATE	HEAVY DUTY STEEL FRAME ACCESS GATE	PAINT BASALT GREEN-FRAZEE C2-15 (5383)	ALCORN FENCE 714/744-9447-808 JENKINS	N/A
[F8]	26" MANUAL SLIDING GATE FOR FIRE TRUCK EMERGENCY ACCESS TO MATCH F1-F4 FENCING	6' HT.	PAINT BASALT GREEN-FRAZEE C2-15 (5383)	PROVIDE KNOX BOX KEY ACCESS. PROVIDE SHOP DRAWINGS	2/L-603

1. CONTRACTOR SHALL DEVELOP HORIZONTAL CONTROL PLANS BASED ON IMA+DESIGN AUTOCAD FILES. LAYOUT SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
2. OWNER TO PROVIDE GEOIECH REPORT FOLLOWING ROUGH GRADING WITH RECOMMENDATIONS FOR ALL PAVING SECTIONS.
3. SUBGRADE AND SUB-BASE INFORMATION IN THESE PLANS ARE FOR BIDDING PURPOSES. FINAL SUB-BASE AND SUBGRADE RECOMMENDATIONS TO BE DETERMINED BY GEOIECH REPORT FOLLOWING ROUGH GRADING.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION ISSUES WITH TO CONSTRUCTION (BUILDING CONTRACTOR)
5. ALL FIRE ACCESS ROADS SHALL BE 26" WIDE MIN. AND SHALL BE DESIGNED TO SUPPORT 67,000 LOAD PER CHINO VALLEY FIRE DEPARTMENT REQUIREMENTS. FIRE ACCESS PLAN AVAILABLE FROM OWNER. FIRE ACCESS LANE STRIPING TO BE PER CHINO VALLEY FIRE REQUIREMENTS (909)902-5280.

CONSTRUCTION NOTES

2500 mjehelson dr
suite 125
Irvine ca 92612
949.250.0033
949.250.0043 f



Designed _____	_____	_____	_____	_____	_____
Drawn _____	_____	_____	_____	_____	_____
Checked _____	_____	_____	_____	_____	_____
Date _____	_____	_____	_____	_____	_____

REVIEWED BY: _____	Date _____
Project Manager for IEUA _____	

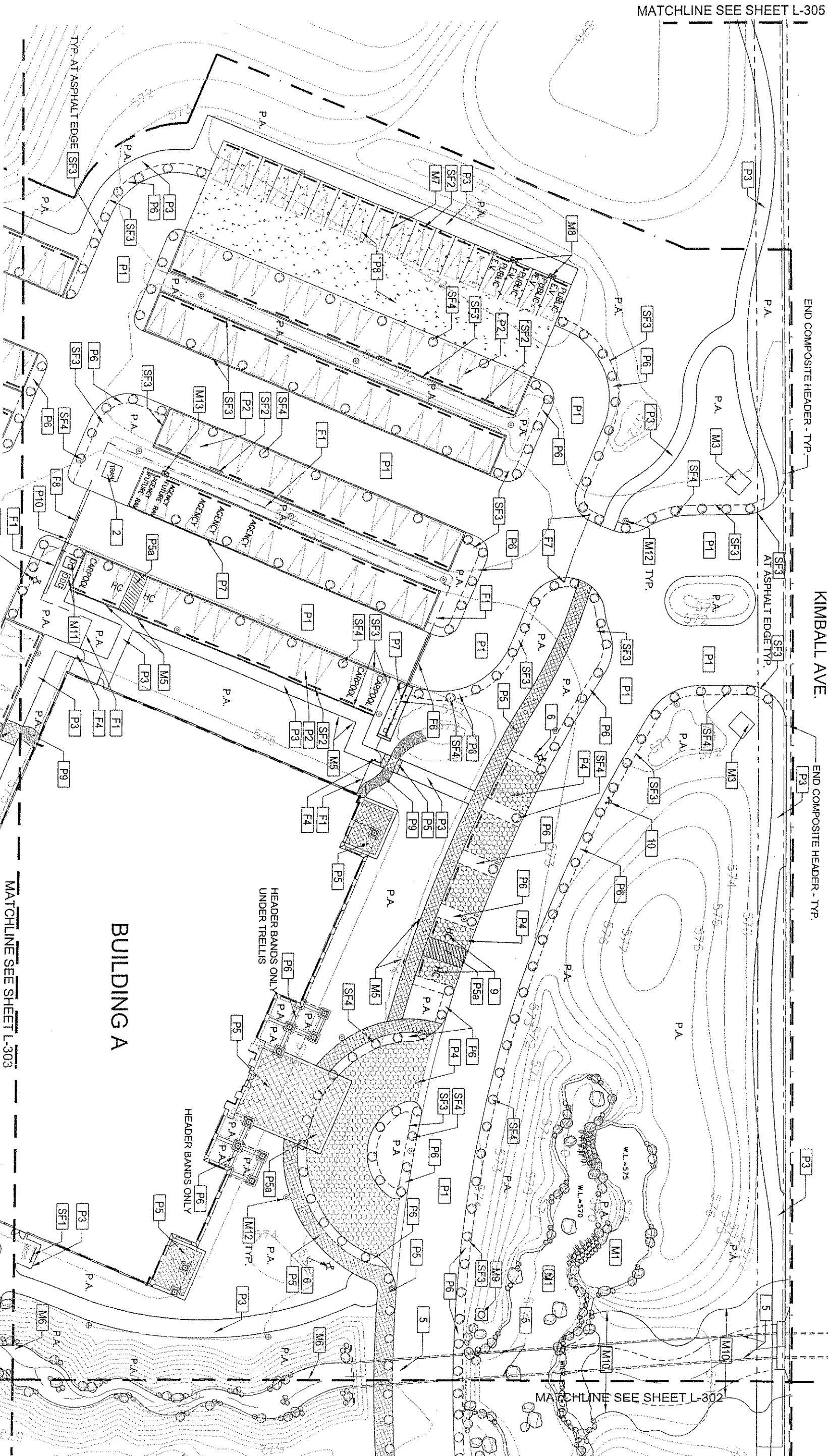
SCALE	AS SHOWN
1" = 10'	1" = 10'

INLAND EMPIRE UTILITIES AGENCY
A Municipal Water District
LOCATION: 10000 Inland Empire Blvd., Suite 100, Fontana, CA 92335
Telephone: (909) 351-3241

IEUA HEADQUARTERS
PHASE 1 - PROJECT # EN 02038
CONSTRUCTION
MATERIALS SCHEDULE

SHEET NO.	14 OF 64
REVISED NO.	0113592
DRAWING NO.	L-200

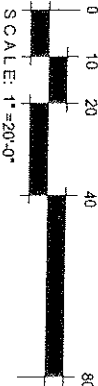
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KIMBALL AVE.

BUILDING A

NOTES: - SEE SHEET L-101 FOR KEY MAP
- SEE SHEET L-200 FOR
CONST. MATERIALS SCHEDULE



ind design
2500 michelson dr
suite 125
irvine ca 92612
949.250.0023
949.250.0043 f

Designed _____
Drawn _____
Checked _____
Date _____

REV.	NO.	DATE	BY	APPROV.	DESCRIPTION

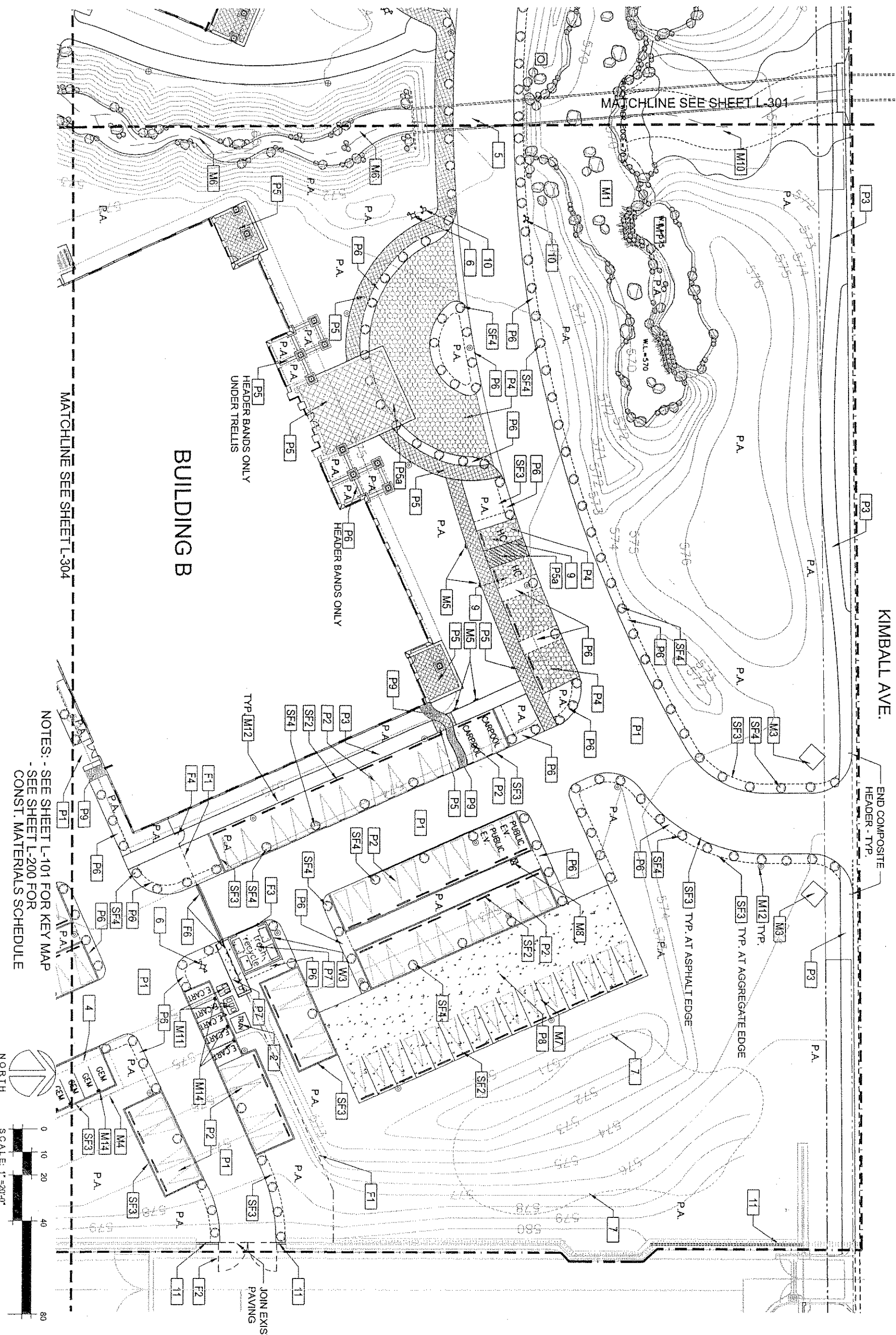
REVIEWED BY: _____
Project Manager for E&M _____
Date _____

SCALE
AS SHOWN
Big Scale shown below is one
NOT one inch on this sheet
adjust scales accordingly.
0' 1' 2'

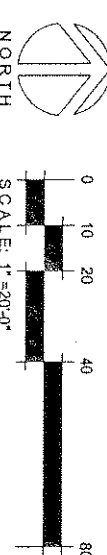
INLAND EMPIRE UTILITIES AGENCY
A Municipal Water District
3400 Cherry Avenue, Banning, CA 92403
Phone: (951) 331-4241
Fax: (951) 331-4241
Banning Customer Service 91720

IEUA HEADQUARTERS
PHASE 1 - PROJECT # EN 02038
CONSTRUCTION
PLAN

SHEET NO.
15 OF 64
JOB NO.
01139.02
DRAWING NO.
L-301



NOTES: - SEE SHEET L-101 FOR KEY MAP
- SEE SHEET L-200 FOR
CONST. MATERIALS SCHEDULE



2500 J. Johnson dr
Suite 220
949.560.0023
949.250.0043 f

Designed _____
Drawn _____
Checked _____
Date _____

REV. NO. DATE BY APPROV. DESCRIPTION

REVIEWED BY: _____
Project Manager for EUM _____
Date _____

SCALE
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But Scale shown below is one
NOT one inch on this sheet.
adjust scales accordingly:
0" = _____
1" = _____

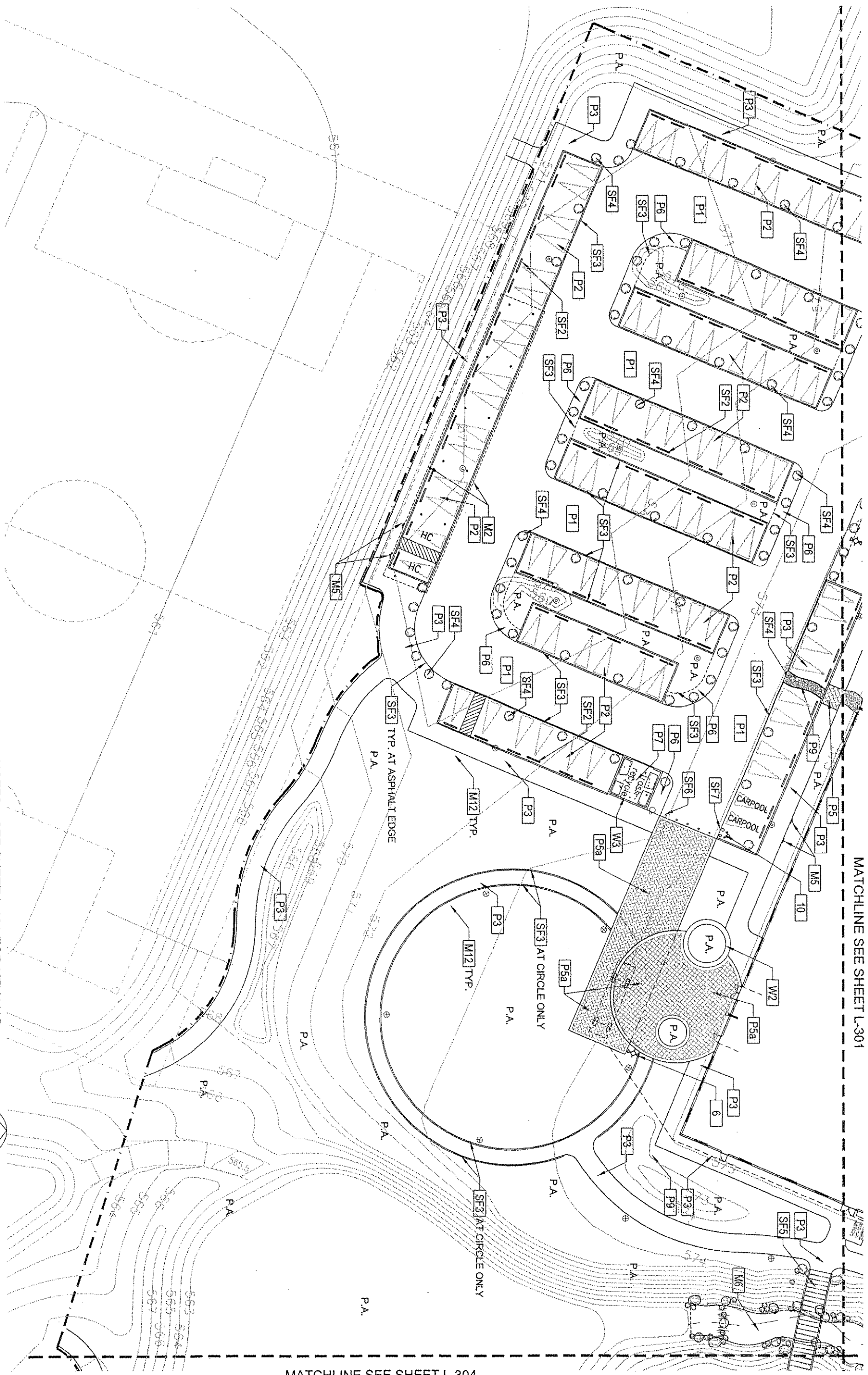
INLAND EMPIRE UTILITIES AGENCY
A Municipal Water District
3600 Garry Avenue, Building 7
Fontana, California 92335
Telephone (951) 317-3241
FAX (951) 317-3241

MAILING ADDRESS
Post Office Box 697
Riverside, California 92506
Telephone (951) 317-3241

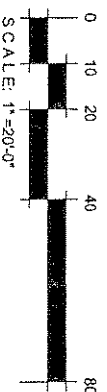
IEUA HEADQUARTERS
PHASE 1 - PROJECT # EN 02038
CONSTRUCTION
PLAN

SHEET NO.
160F 64
Job No.
01139.02
Drawing No.
L-302

12/19/02 - BID SET



NOTES: - SEE SHEET L-101 FOR KEY MAP
- SEE SHEET L-200 FOR
CONST. MATERIALS SCHEDULE



MATCHLINE SEE SHEET L-304

MATCHLINE SEE SHEET L-301

india design
2500 nicholson dr
suite 125
irvine ca 92612
949.250.0023
949.250.0043 f

Designed _____
Drawn _____
Checked _____
Date _____

REV. NO.	DATE	BY	APPROV.	DESCRIPTION

REVIEWED BY: _____
Project Manager for ECU _____
Date _____

SCALE
AS SHOWN
But Scale shown below is not
to be used on original drawing if
not on each of the sheet.
Original scales shown below:
0' = 1" (1:120)

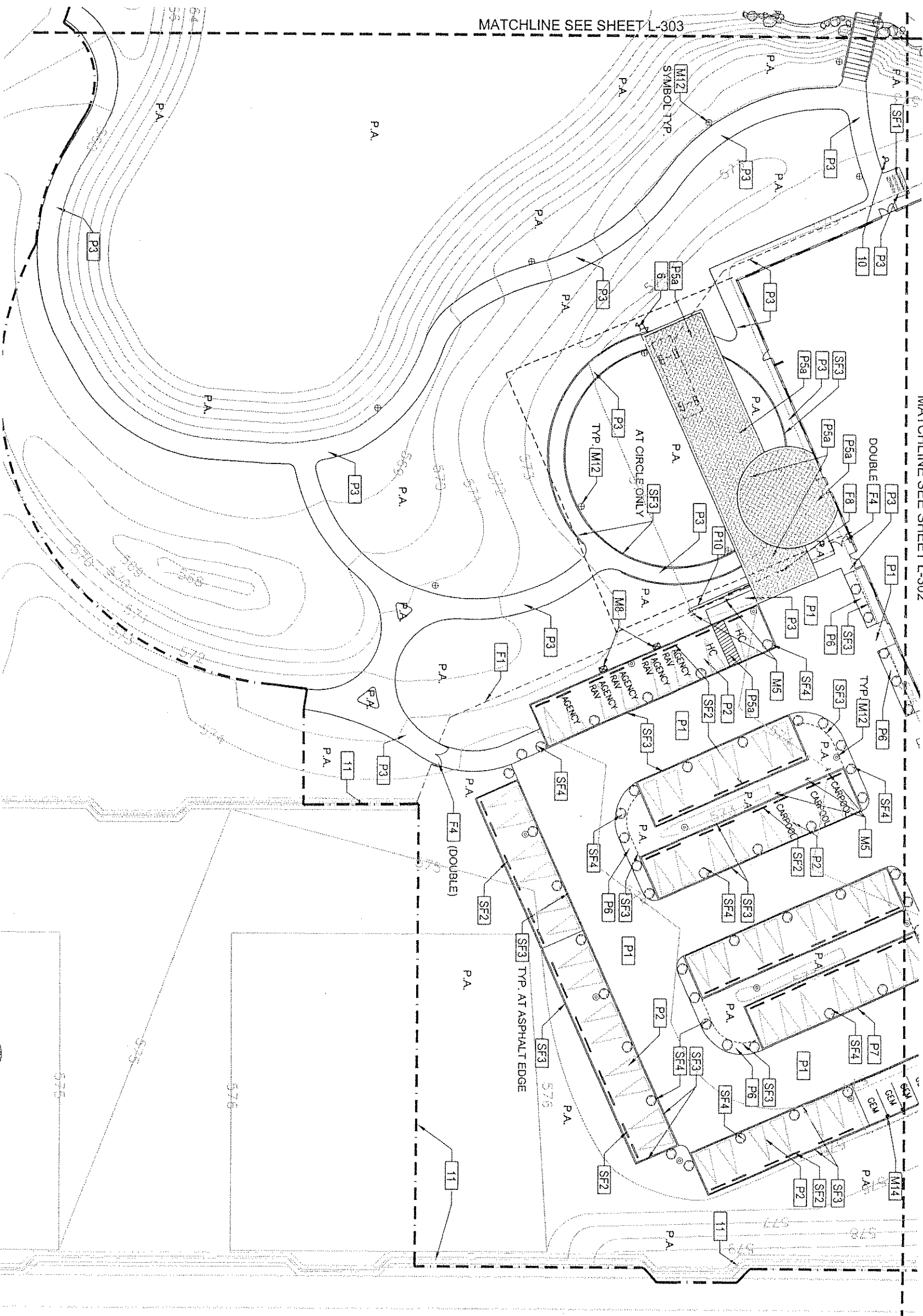


INLAND EMPIRE UTILITIES AGENCY
A Municipal Water District
10000
Fountain Valley, California 92708
Telephone (909) 357-0241

**LEUA HEADQUARTERS
PHASE 1 - PROJECT # EN 02038
CONSTRUCTION
PLAN**

SHEET NO.
17 OF 64
ENG. JES NG
01139.02
DRAWING NO.
L-303

MATCHLINE SEE SHEET L-302



NOTES: - SEE SHEET L-101 FOR KEY MAP
- SEE SHEET L-200 FOR
CONST. MATERIALS SCHEDULE



Age Group	Percentage of Total Sample
0	10
10	10
20	10
40	40
80	30

uma design
2500 michelson dr
suite 125
irvine ca 92612
949.250.0023
949.250.0043 f

2500 michelson dr
suite 125
irvine ca 92612
949.250.0023
949.250.0043 f

Designed	_____	_____
Drawn	_____	_____
Checked	_____	_____
Date	_____	_____

[illegible]

REVIEWED BY: _____
Project Manager for ECUA _____
Date: _____

AS SHOWN
Bar Scale shown below is
inch on original drawing
NOT one inch on this set
of scales according

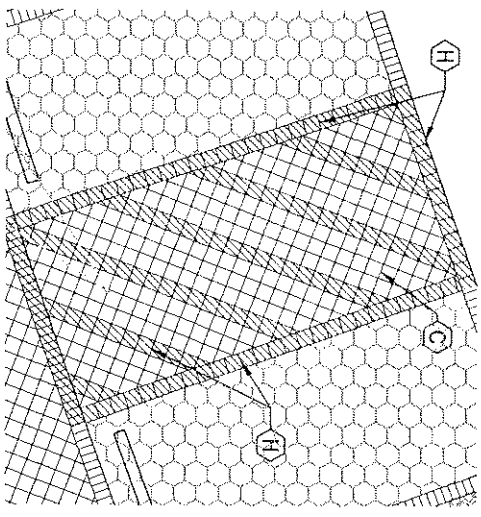


INLAND EMPIRE UTILITIES AGENCY	
A Municipal Water District	
LOCATION	MAILING ADDRESS
3400 Cherry Avenue, Building A	P.O. Box 691
Fontana, California 92335	Rancho Cucamonga, California 91730
Telephone (909) 357-0241	

I.E.U.A. HEADQUARTERS
 PHASE 1 - PROJECT # EN 02038
 CONSTRUCTION
 PLAN

SHEET NO.	180f 64
Job NO.	01139.02
DRAWING NO.	L-304

Scale: 1"=10'



PAVERS@HANDICAPLOADING

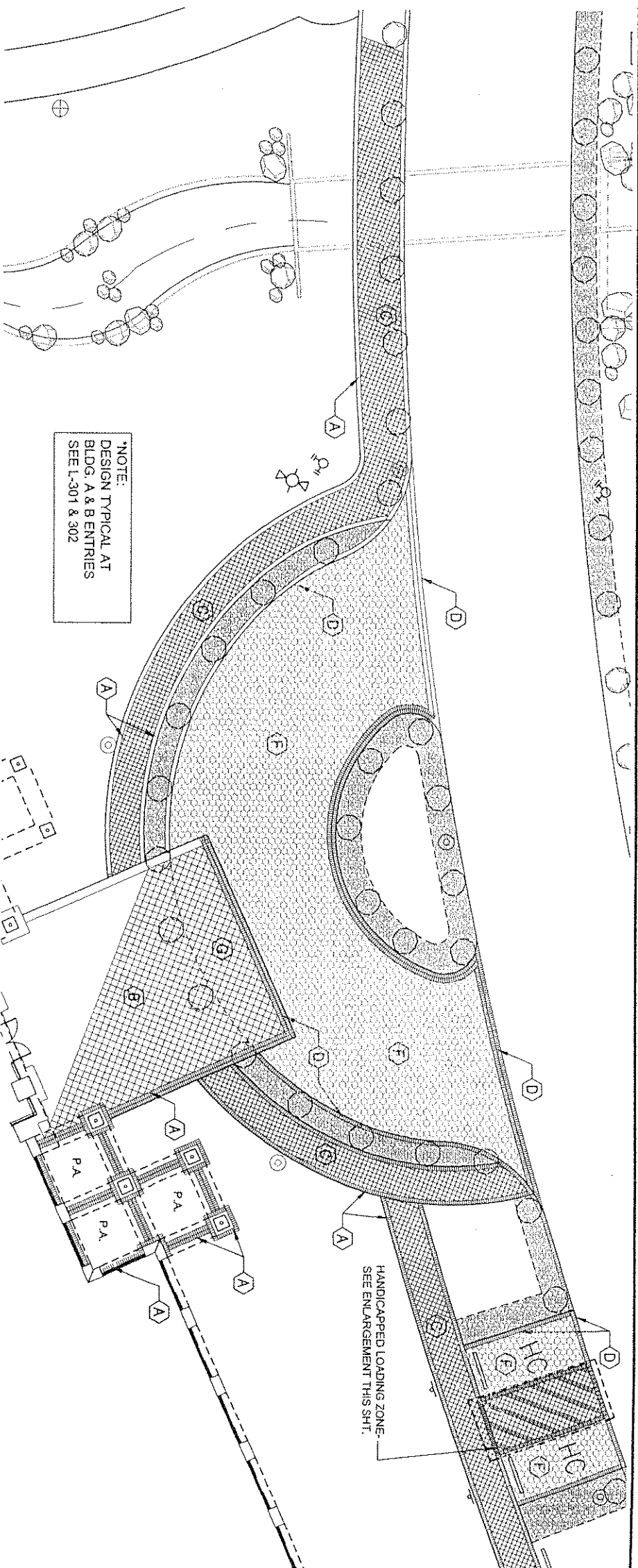
Scale: 1/4"=1'-0"

N.T.S.

NOTE: TYPICAL AT ALL HANDICAPPED LOADING ZONES

INTERLOCKING PAVER SCHEDULE

PAVING TYPE	DESCRIPTION	PATTERN	THICKNESS/SIZE	COLOR	FINISH	COMMENTS
A	4"x8" COLORED CONCRETE PAYER	HEADER COURSE	60 MM. PEDESTRIAN	CHESTNUT BROWN	THROUGH MIX	
B	12"x12" COLORED CONCRETE PAYER	45 DEG. STACK BOND	60 MM. PEDESTRIAN	SANTA BARBARA SANDSTONE BLEND	THROUGH MIX	
C	8"x8" COLORED CONCRETE PAYER	45 DEG. STACK BOND	60 MM. VEHICULAR	SANTA BARBARA SANDSTONE BLEND	THROUGH MIX	
D	4"x8" COLORED CONCRETE PAYER	HEADER COURSE	80 MM. VEHICULAR	CHESTNUT BROWN	THROUGH MIX	
E	6"x12" COLORED CONCRETE PAYER	HERRINGBONE PATTERN	80 MM. VEHICULAR	OAK CREEK BLEND	THROUGH MIX	
F	ECO-PAVER PERMEABLE PAYER	PER MFGR.	80 MM. VEHICULAR	OAK CREEK BLEND	THROUGH MIX	
G	12"x12" COLORED CONCRETE PAYER	45 DEG. STACK BOND	80 MM. VEHICULAR	SANTA BARBARA SANDSTONE BLEND	THROUGH MIX	
H	8"x8" COLORED CONCRETE PAYER	45 DEG. STACK BOND	80 MM. VEHICULAR	BLUE PAYER FOR H.C. STRIPING	FACE MIX	H.C. STRIPING & PERIMETER
I	8"x8" COLORED CONCRETE PAYER	45 DEG. STACK BOND	80 MM. VEHICULAR	SANTA BARBARA SANDSTONE BLEND	THROUGH MIX	
J	4"x8" COLORED CONCRETE PAYER	HERRINGBONE PATTERN	80 MM. VEHICULAR	BUFF	THROUGH MIX	



*NOTE:
DESIGN TYPICAL AT
BLDG. A & B ENTRIES
SEE L-301 & 302

TYPICAL PAVING ENLARGEMENT AREAS - ENTRY

Scale: 1"=10'

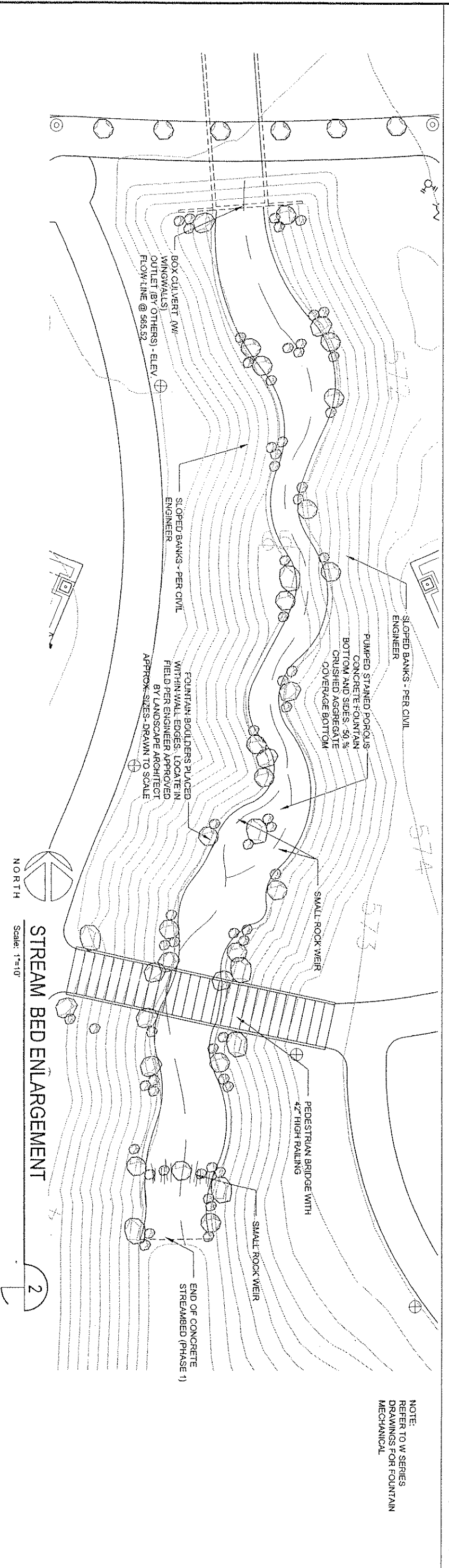
BUILDING A

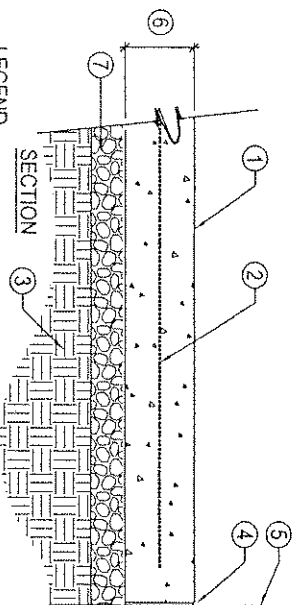
*NOTE:
PATIO DESIGN INTENT
TYPICAL AT BLDG. B PATIO
ALSO
SEE L-304 FOR LAYOUT

REAR PAIIO AND FIRE ACCESS PAYING ENLARGEMENT.

Scale: 1"=10'

	2500 Johnson Dr Suite 100 Irvine, CA 92612 949.250.0023 949.250.0043 f	Designed _____ Drawn _____ Checked _____ Date _____	REV. NO. DATE BY APPRVD	DESCRIPTION	REVIEWED BY: _____ Date _____ Project Manager for I&U	SCALE: AS SHOWN Bar Scale shown below is one inch on original drawing. If not shown, use 1" = 10' or other project scales accordingly. 0" = 10'	 INLAND EMPIRE UTILITIES AGENCY A Municipal Water District 10000 N. 10th Street Suite 100, P.O. Box 697 Fontana, California 92335 Ramona, California 91750 Telephone (909) 351-0241	I.E.U.A. HEADQUARTERS PHASE 1 - PROJECT # EN 02038 PAVING ENLARGEMENT PLANS	SHEET NO. 200F 64 Date 208 NO. 011239 02 DRAWING NO. L-400
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LEGEND

- 1 CAST IN PLACE CONCRETE PAVING. SEE SCHEDULE FOR COLOR AND FINISH.
- 2 #4 BAR 18" OC. IN EACH DIRECTION. SEE NOTE BELOW.
- 3 SUBGRADE PER GEOTECHNICAL REPORT
- 4 NON DOWELED ISOLATION JOINT
- 5 ADJACENT VERTICAL SURFACE.
- 6 4" THICK AT PEDESTRIAN AREAS; 6" THICK AT VEHICULAR AREAS AND TRASH ENCLOSURE FLOODS - SEE PLAN
- 7 BASE MATERIAL AND DEPTH PER GEOTECHNICAL REPORT

NOTE:

- A. HOLD PAVING REINFORCEMENT 6" CLEAR OF CONSTRUCTION AND ISOLATION JOINTS.

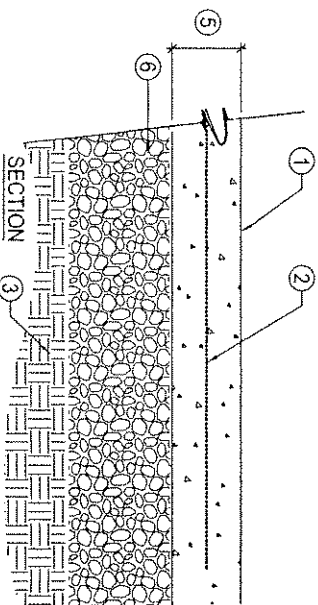
CONCRETE PAVING

Scale: 1-1/2"=1'-0"

MO3301-01

NOTES:

1. Reinforcement for bidding purposes only. Actual reinforcement recommendation per geotechnical report.
2. Final pervious concrete cross section to be determined based on geotechnical report of soil expansiveness and permeability following final rough grading at pavement location.
3. Initial geotechnical knowledge of the site indicates that subgrade is fairly impermeable. Therefore, until further testing is complete, subgrade below pervious concrete to be graded to a slope to allow drainage horizontally to bio-swale filter. PVC drain lines may be necessary within grovel sub-base to direct water to bio-swale filter.
4. Pervious concrete contacts: Dave Akers, Calif Cement Council 818/522-9828, Dave Lang, National Readymix Labs 818/243-4243 x1.3



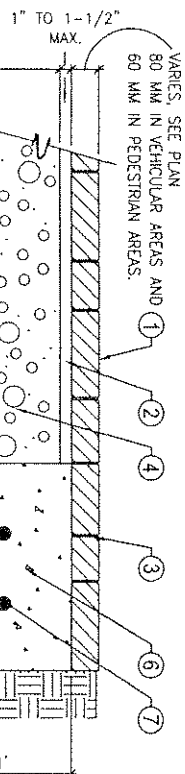
LEGEND

- 1 CAST IN PLACE PERVIOUS CONCRETE PAVING.
- 2 #4 BAR 18" OC. IN EACH DIRECTION. SEE NOTES
- 3 COMPACTED SUBGRADE PER GEOTECHNICAL REPORT
- 5 6" THICK PERVIOUS CONCRETE LAYER
- 6 9" LAYER 3/4" CRUSHED ROCK COMPACTED SUB-BASE.

PERVIOUS CONCRETE PAVING

Scale: 1-1/2"=1'-0"

PO3301-02



LEGEND

- 1 CONCRETE PAVERS WITH SAND SWEEP JOINTS. SEE SCHEDULE.
- 2 WASHED SAND LEVELING BED.
- 3 BUTT JOINT - SWEEP SAND INTO OPENINGS.
- 4 6" CLASS II BASE (VEHICULAR)
- 5 COMPACTED SUBGRADE PER GEOTECHNICAL REPORT.
- 6 CONCRETE SETTING BED UNDER ALL PAVERS ADJACENT TO PLANTING EDGES, DG OR ADJACENT TO ASPHALT
- 7 POURED CONCRETE BASE WITH 2 #4 REBAR CONTINUOUS.

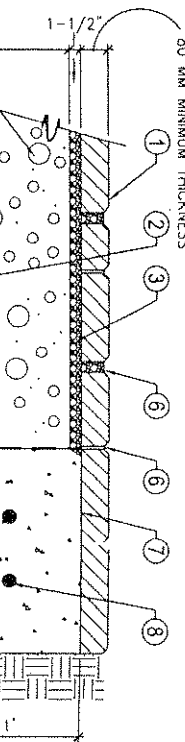
NOTES:

- A. CONTRACTOR TO PROVIDE A 6' X 6' MOCK-UP FOR REVIEW AND APPROVAL.
- B. GEOTECHNICAL REPORT TO INCLUDE ALL FIRE ACCESS ROADS DESIGNED TO SUPPORT 67,000 LBS LOAD. FORWARD SUB-BASE DEPTH RECOMMENDATIONS TO VAL HARLAN / CHINO VALLEY FIRE AUTHORITY.
- C. PAVEMENT JOINT TO ALIGN W/ EDGE OF CONCRETE FOUNDATION

PRECAST CONCRETE PAVERS

Scale: 1-1/2"=1'-0"

02791-01



LEGEND

- 1 UN ECO-STONE CONCRETE PAVERS. SEE SCHEDULE.
- 2 GEOTEXTILE FABRIC
- 3 1-1/2" #8 AGGREGATE - KEEP CLEAN
- 4 #57 ROCK - KEEP CLEAN AND DEBRIS FREE. NOTE: SUB-BASE DEPTH TO BE DETERMINED FOLLOWING INFILTRATION TEST AT INSTALLATION LOCATION
- 5 SUBGRADE PER GEOTECHNICAL REPORT.
- 6 FILL JOINTS BY SWEEPING WITH #8 AGGREGATE PERVIOUS MATERIAL UNTIL TIGHTLY PACKED (FOLLOW MANUFACTURERS SPECIFICATIONS FOR INSTALLATION).
- 7 CONCRETE SETTING BED UNDER ALL PAVERS ADJACENT TO PLANTING EDGE, DG OR ADJACENT TO ASPHALT
- 8 #4 REBAR

NOTE:

- A. CONTRACTOR TO PROVIDE A 6' X 6' MOCK-UP FOR REVIEW AND APPROVAL.

"ECO-STONE" CONCRETE PAVERS

Scale: 1-1/2"=1'-0"

02791-01

LEGEND

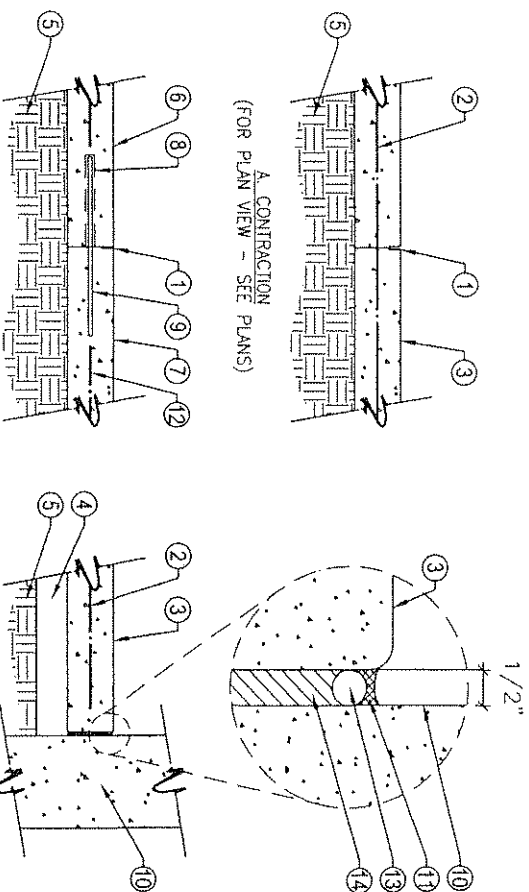
- 1 HAND-TOOLED JOINT. MAXIMUM WIDTH OF 3/16" DEPTH OF JOINT AT 1/4 THE DEPTH OF SLAB
- 2 CONCRETE REINFORCEMENT
- 3 FINISH SURFACE OF PAVING.
- 4 1" THICK WASHED COARSE SAND.
- 5 COMPACTED SUB GRADE - REFER TO GEOTECHNICAL REPORT FOR SPECIFIC RECOMMENDATIONS.
- 6 POUR "A" CONCRETE SLAB.
- 7 POUR "B" CONCRETE SLAB.
- 8 PLASTIC "SPEED DOWEL" TUBE, OR APPROVED EQUAL, EMBEDDED IN POUR "A" SLAB.
- 9 1/2" SMOOTH STEEL DOWEL CONNECTED POUR "A" AND "B" SEPARATELY EITHER 12" OR 18" LONG X 18" OR 24" O.C. REFER TO GEOTECHNICAL REPORT FOR SPECIFIC RECOMMENDATIONS.
- 10 VERTICAL SURFACE, IE. WALL, COLUMN, STEPS, ETC.
- 11 JOINT SEALANT. COLOR TO MATCH CONCRETE.
- 12 REBAR SIMILAR TO NOTE 2 ABOVE BUT DO NOT CONNECT POUR "A" AND "B" TOGETHER.
- 13 CLOSED CELL BACKER ROD.
- 14 ISOLATION JOINT FILLER - CONFIRM W/ SPECIFICATIONS.

NOTE: REINFORCEMENT AND SUB-BASE ARE SHOWN FOR BIDDING PURPOSES ONLY AND MUST BE CONFIRMED WITH GEOTECHNICAL REPORT.

PAVING JOINTS (TYPICAL)

Scale: no scale

03300-01



B. CONSTRUCTION
(FOR PLAN VIEW - SEE PLANS)

C. ISOLATION

ind design
2500 michelson dr
suite 125
irvine ca 92612
949.250.0033
949.250.0043 f

Designed _____
Drawn _____
Checked _____
Date _____

REV. NO.	DATE	BY	APPROV.	DESCRIPTION

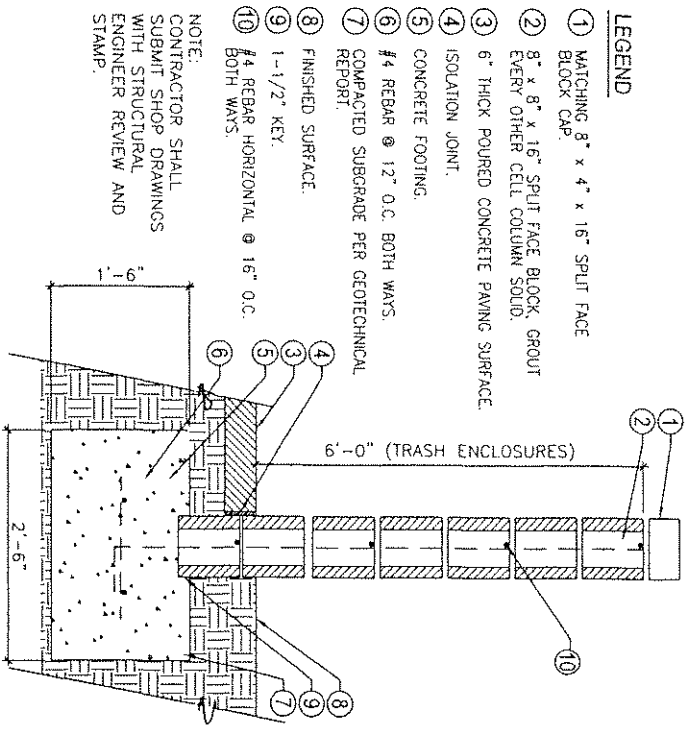
REVIEWED BY: _____
Project Manager for E&A _____
Date _____

SCALE
AS SHOWN
For Scale shown there is one inch on original drawing. If not shown, scale is as indicated on drawing.

INLAND EMPIRE UTILITIES AGENCY
A Municipal Water District
10000 N. 100th Ave., Suite 100
Portland, Oregon 97220
Telephone (503) 557-0241

1E.U.A. HEADQUARTERS
PHASE 1 - PROJECT # EN 02038
CONSTRUCTION
DETAILS

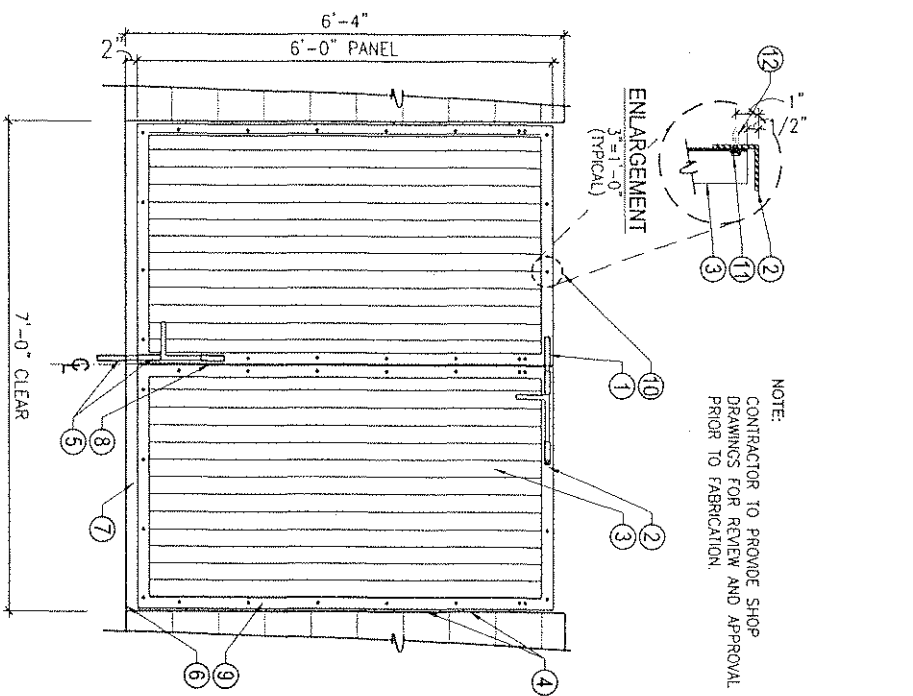
SHEET NO.
22 OF 64
JOB NO.
01139.02
DRAWING NO.
L-600



SPLIT FACE BLOCK WALL W/ CAP

Scale: 1"=1'-0"

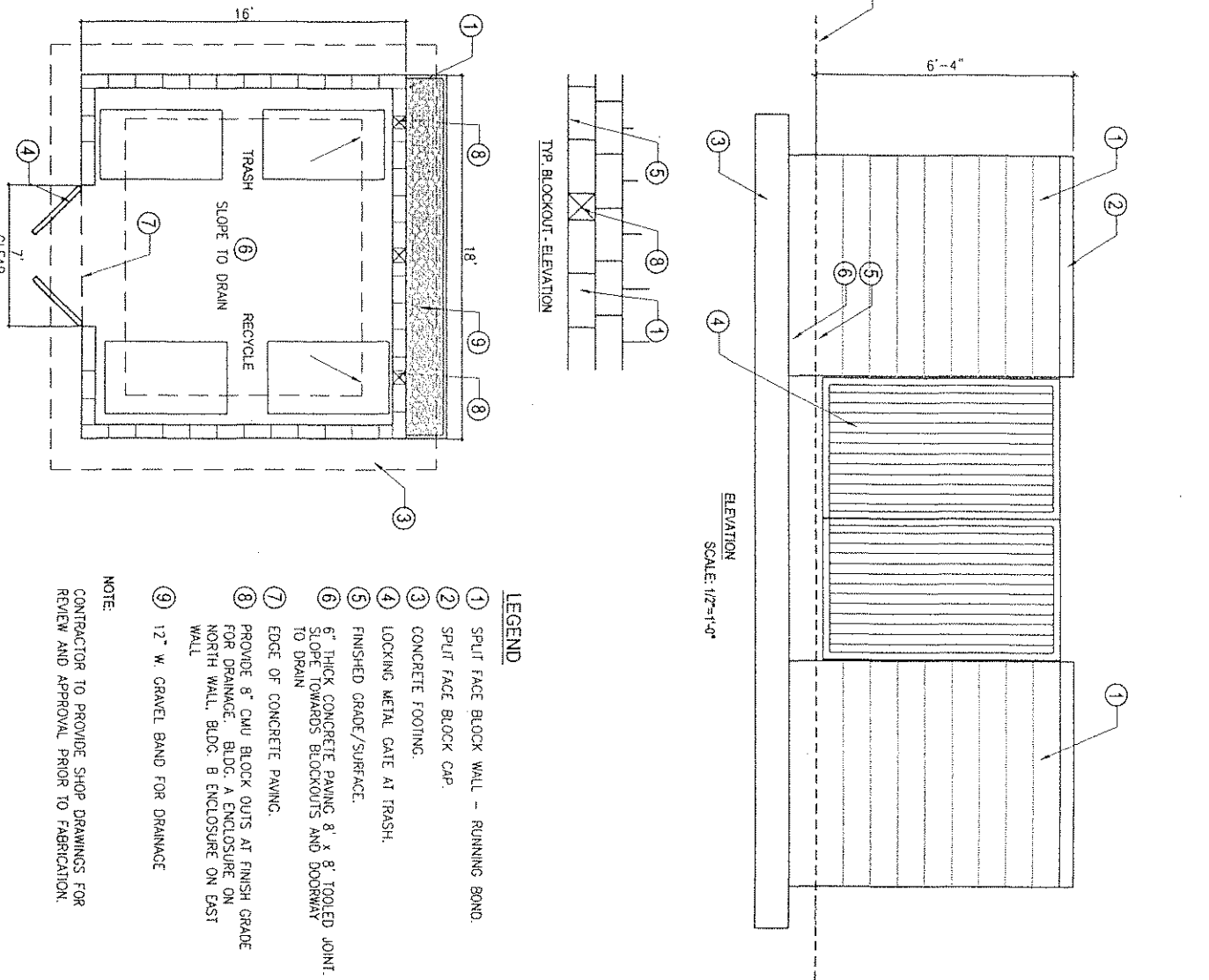
MO4222-02



METAL GATE AT TRASH

Scale: 3/4"=1'-0"

TRSH-BLR-02



TRASH AND RECYCLE CENTER ENCLOSURE

Scale: AS NOTED

TRSH-ENC01

indesign
2500 richolson dr
suite 123
irvine, ca 92612
tel: 949.250.0023
fax: 949.250.0043 f

Designed	Drawn	Checked	Date	REV	NO	DATE	BY	APPROV

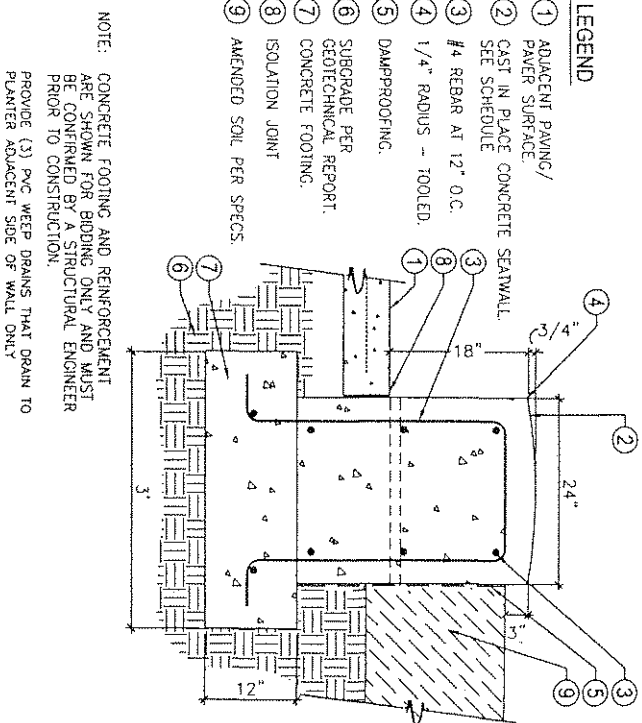
REVIEWED BY: _____
Project Manager for EDA _____
Date: _____

SCALE
AS SHOWN
Big Scale shown below is one inch equals one foot. All other scales are as shown on this sheet. All scales are in feet and inches.

INLAND EMPIRE UTILITIES AGENCY
A Municipal Water District
3000 Cherry Avenue, Building A
Irvine, CA 92618
Telephone: (949) 257-1011
FAX: (949) 257-1011
MAILING ADDRESS:
Post Office Box 697
Irvine, California 92713-0697

IEUA HEADQUARTERS
PHASE I - PROJECT # EN02038
CONSTRUCTION
DETAILS

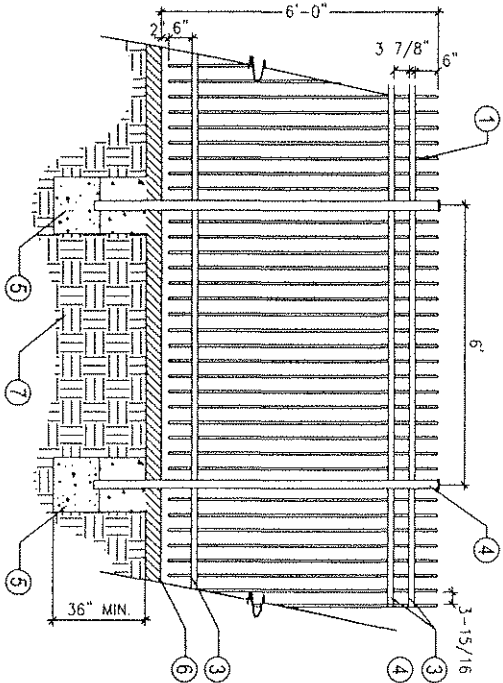
SHEET NO.
24 OF 64
Job NO.
011139 02
DRAWING NO.
L-602



C.I.P. CONCRETE SEATWALL

Scale: 1"=1'-0"

03300-05

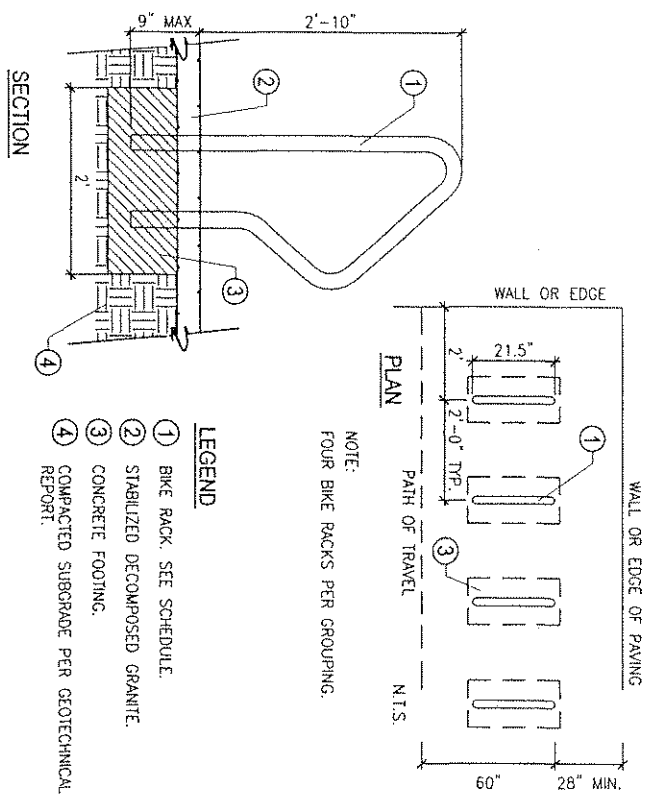


TUBULAR STEEL FENCE

Scale: 1/2"=1'-0"

- LEGEND**
- 1 3/4" SQ. PICKET
 - 2 1-3/8" x 1-1/2" RAILS
 - 3 FLAT CAP
 - 4 2" SQ. POST WITH FLAT TOP CAP
 - 5 CONCRETE FOOTING TO BE MIN. (4)X POST WIDTH
 - 6 FINISHED SURFACE OR FINISHED GRADE
 - 7 COMPACTED SUBGRADE
- NOTES:**
- SEE SCHEDULE FOR FENCE MFR. MODEL AND COLOR. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL COMPONENTS INCLUDING FENCE PANELS AND GATES.
 - CAP THE TOP ENDS OF THE POSTS.
 - POSTS AND PICKETS TO BE CONSTRUCTED PLUMB.
 - TOPS OF PICKETS AND TOP RAIL TO BE CONSTRUCTED LEVEL.
 - CONTRACTOR MAY RAISE AND LOWER BOTTOM RAIL AND/OR STEP PANELS TO ALLOW FOR CHANGE IN GRADE.

2500 Mchelson dr suite 125 Irvine, CA 92612 949 250.0023 949 250.0043		Designed _____ Drawn _____ Checked _____ Date _____		REV. NO. DATE BY APPVD		DESCRIPTION		REVIEWED BY: _____ Project Manager for KLA _____ Date _____		SCALE AS SHOWN See Scale shown below & one inch on original drawing. If different scale is indicated, it shall govern.		 INLAND EMPIRE UTILITIES AGENCY 10020000 1st Street, Suite 100 Fountain, California 92335 Telephone (951) 351-0241 FAX (951) 351-0241 A Municipal Water District Mailing Address 10020000 1st Street, Suite 100 Fountain, California 92335 Telephone (951) 351-0241 FAX (951) 351-0241		I.E.U.A. HEADQUARTERS PHASE 1 - PROJECT # EN 02038 CONSTRUCTION DETAILS		SHEET NO. 25 OF 64 011139 02 DRAWING NO. L-603	
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BIKE RACK

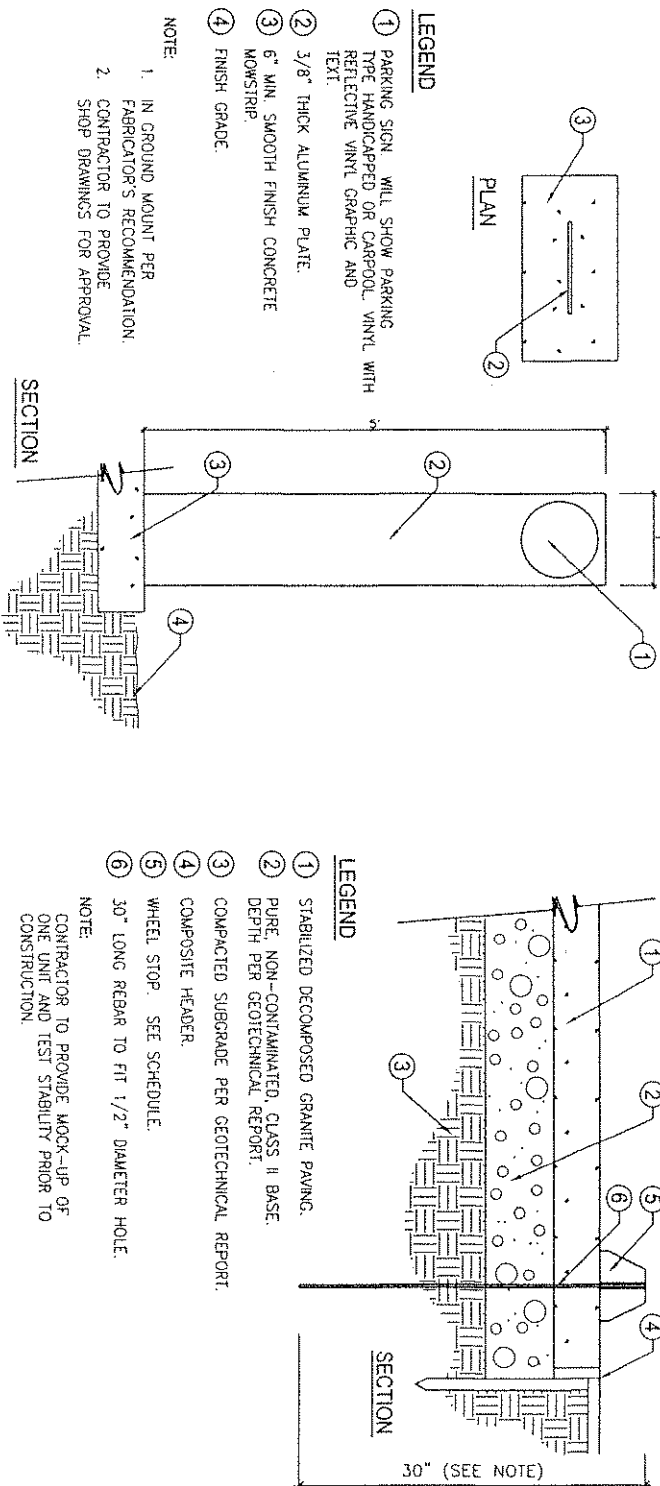
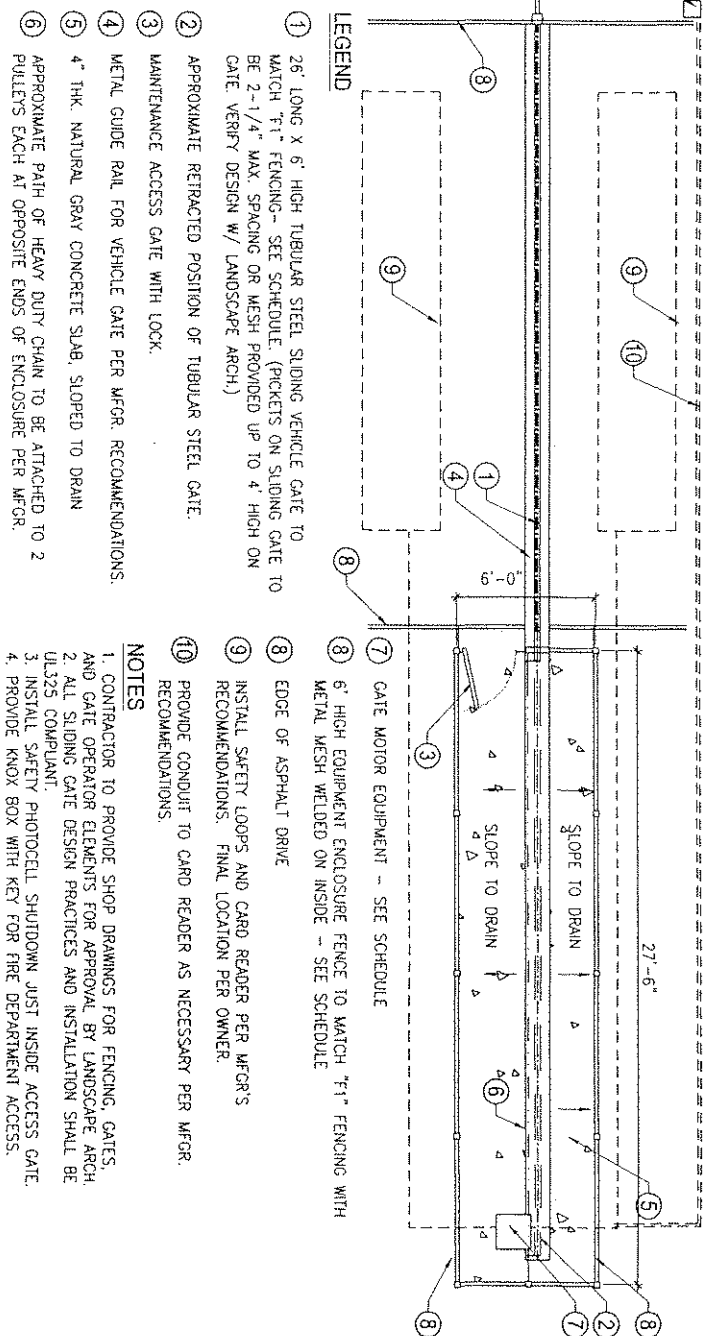
Scale: 1" = 1'-0"

BIKE RACK

ELECTRIC SLIDING VEHICULAR GATE - PLAN

Scale: 1/4" = 1'-0"

06725-03

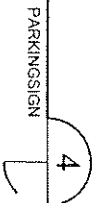


PARKING SIGN

Scale: 1" = 1'-0"

WHEEL STOP

Scale: 1-1/2" = 1'-0"



2500 michelson dr
suite 123
irvine ca 92612
phone 949.250.0023
fax 949.250.0023
349.250.0043 f

Designed	
Drawn	
Checked	
Date	
REV. NO.	DATE
BY	APPROV.
DESCRIPTION	

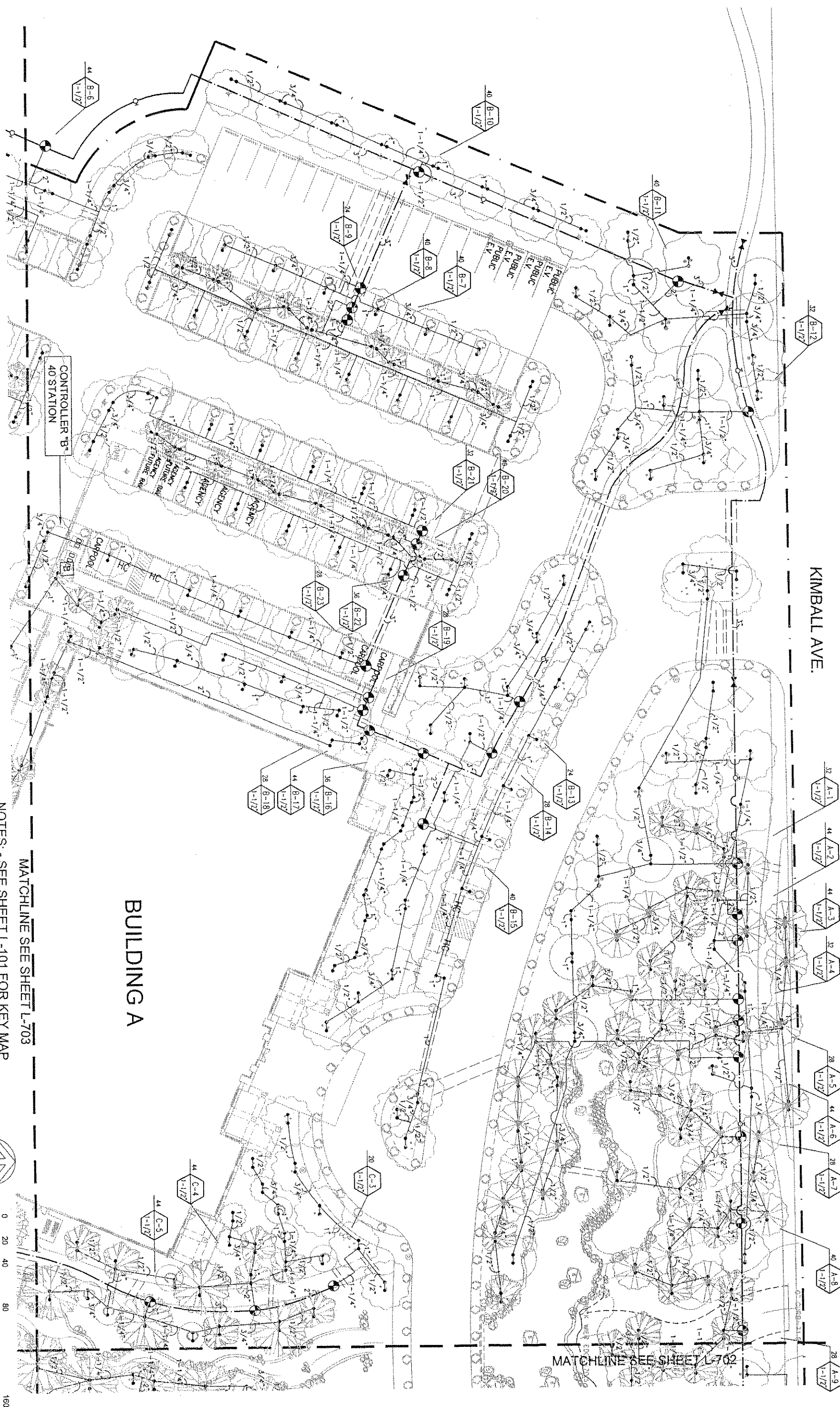
REVIEWED BY:	DATE
Project Manager for ECU	

SCALE
AS SHOWN
See Scale shown below & one
not one copy of this sheet.
original scales accordingly.
0" = 1"

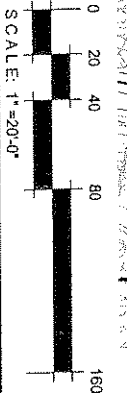
INLAND EMPIRE UTILITIES AGENCY
A Municipal Water District
3400 Cherry Avenue, Building A
Fountain, Colorado 80025
Telephone (303) 281-7251
MAILING ADDRESS
Post Office Box 697
Fountain, Colorado 80025
Telephone (303) 281-7251

LEUA HEADQUARTERS
PHASE 1 - PROJECT # EN 02038
CONSTRUCTION
DETAILS

SHEET NO.
26 OF 64
info JOB NO.
01139.02
DRAWING NO.
L-004



NOTES: - SEE SHEET L-101 FOR KEY MAP
- SEE SHEET L-700 FOR IRRIGATION LEGEND



unad design
2500 michelson dr
suite 123
lytle ca 92612
949.230.0023
949.230.0043 f

DESIGNED	DRAWN	CHECKED	DATE	REV.	NO.	DATE	BY	APPROV.	DESCRIPTION

REVIEWED BY: _____
Project Manager for IEUA _____
Date: _____

SCALE
AS SHOWN
For Scale shown below, a one inch scale is used. If not shown, the scale is as shown. If not shown, the scale is as shown. If not shown, the scale is as shown.

INLAND EMPIRE UTILITIES AGENCY
A Municipal Water District
3400 Cherry Avenue, Building 2
Fountain, California 92335
Telephone (951) 331-1831
MAILING ADDRESS
Post Office Box 697
Riverside, California 92530

IEUA HEADQUARTERS
PHASE 1 - PROJECT # EN02038
IRRIGATION
PLAN - TREES

SHEET NO.
28 OF 64
DRAWING NO.
L-701

A. THE INSTALLATION OF THE IRRIGATION WATER SYSTEM SHALL CONFORM TO THE REGULATIONS FOR THE CONSTRUCTION OF IRRIGATION WATER SYSTEMS WITHIN THE ACCOMPANYING PLANS AND SPECIFICATIONS AND THE GOVERNING AGENCY.

B. ALL ONSITE RECLAIMED WATER PIPING INSTALLED ON THIS PROJECT SHALL BE IDENTIFIED.

C. RECLAIMED WATER PIPING SHALL BE "ALERTLINE" PURPLE PVC AS MANUFACTURED BY PACIFIC PLASTICS.

D. MARKING ON THE PURPLE PVC PIPE SHALL INCLUDE THE FOLLOWING:
ALERTUNE; CAUTION RECLAIMED WATER; NOMINAL PIPE SIZE; PVC-1120; PRESSURE RATING IN POUNDS PER SQUARE INCH AT 73 DEGREES; ASTM DESIGNATIONS SUCH AS 1785, 2241, 2672, 3139. PRINTING SHALL BE PLACED CONTINUOUSLY ON TWO SIDES OF THE PIPE.

E. ALL RECLAIMED WATER SPRINKLER CONTROL VALVES SHALL BE TAGGED WITH IDENTIFICATION TAGS.

(1) TAGS SHALL BE WEATHERPROOF PLASTIC, 3"x4", PURPLE IN COLOR WITH THE WORDS "WARNING - RECLAIMED WATER - DO NOT DRINK" IMPRINTED ON ONE SIDE, AND "AVISA - AGUA IMPURA - NO TOMAR" ON THE OTHER SIDE. IMPRINTING SHALL BE PERMANENT AND BLACK IN COLOR. USE TAGS AS MANUFACTURED BY T. CHRISTY ENTERPRISES.

(2) ONE TAG SHALL BE ATTACHED TO EACH VALVE AS FOLLOWS:

(1) ATTACH TO VALVE STEM DIRECTLY OR WITH PLASTIC TIE-WRAP OR

(3) ATTACH TO VALVE COVER WITH EXISTING VALVE COVER BOLT.

F. THE IRRIGATION SYSTEM HAS BEEN DESIGNED TO OPERATE BETWEEN THE HOURS OF 9:00 PM AND 6:00 AM. WATERING OUTSIDE THIS TIME FRAME MUST BE DONE MANUALLY WITH QUALIFIED SUPERVISORY PERSONNEL ON-SITE. NO SYSTEM SHALL AT ANY TIME BE LEFT UNATTENDED DURING USE OUTSIDE THE NORMAL SCHEDULE.

6. ADJUST SPRAY HEADS TO ELIMINATE OVERSPRAY ONTO PAVED AREAS, HARDSCAPE, STREETS, AND WALKS.

H. CONTACT THE ENGINEER TWO DAYS PRIOR TO THE IRRIGATION SYSTEM COVERAGE TEST AND ARRANGE A WALK THROUGH OF THE SYSTEM.

1. IRRIGATE IN A MANNER WITHOUT RUNOFF AND PONING. THE APPLICATION RATE SHALL NOT EXCEED THE INFILTRATION RATE OF THE SOIL. TIME MUST BE ADJUSTED SO AS TO BE COMPATIBLE WITH THE LOWEST SOIL INFILTRATION RATE PRESENT. THIS PROCEDURE MAY BE FACILITATED BY THE EFFICIENT SCHEDULING OF THE AUTOMATIC CONTROL CLOCKS, (I.E., EMPLOYING THE REPEAT FUNCTION TO BREAK UP THE TOTAL IRRIGATION TIME INTO CYCLES THAT WILL PROMOTE MAXIMUM SOIL ABSORPTION).

3. EDUCATE ALL MAINTENANCE PERSONNEL, ON A CONTINUOUS BASIS, OF THE PRESENCE OF RECLAIMED WATER, AND THE FACT THAT IT IS NOT APPROVED FOR DRINKING PURPOSES.

MAXIMUM APPLIED WATER ALLOWANCE (METER #1)

$$MAWA = (ETO)(0.8)(IA)(0.62)$$

$$= 56.6 \times 0.8 \times 274000 \times 0.62$$

$$= 7.692,164.4 \text{ GALLONS PER YEAR} / 748$$

WATERUSE	PLANT KEY	HYDROZONE	PLANT FACTOR
LOW	SHRUBS/ TREES	191.470 SF X .3	57.441
MEDIUM	SHRUBS/ TREES	70818 SF X .6	42491
HIGH	TURF	11,712 SF X .9	10541
TOTAL		274,000 S.F.	110.473
AVERAGE PLANT FACTOR (APF)			110.473
			= 0.403
			274,000

ESTIMATED WATER USE

$$EWU = ETO(APF)(LA)(0.62)$$

$$= 56.6 (.403)(274,000)(.62)$$

= 3,874.928.82 GALLONS PER YEAR / 748

=5,180.39 HUNDRED CUBIC FT

[illegible]

IRRIGATION LEGEND

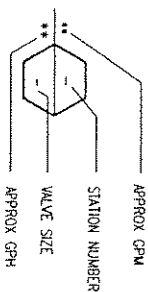
TURF SHRUBS OUTLIF	DESCRIPTION	MFR.	MODEL NO.	PSI	GPM OUT HIF	RADIUS
▽▽▽▲	POP-UP TURF SPRAY	RAINBIRD	1806-SAM-5-MPR-PCS-NP	30	10/1.3/ 2/.41	5'
▽▽▽▽	POP-UP TURF SPRAY	RAINBIRD	1806-SAM-8-MPR-PCS-NP	30	26/35/ 52/1.05	8'
▽▽▽▽	POP-UP TURF SPRAY	RAINBIRD	1806-SAM-10-MPR-PCS-NP	30	39/53/ 79/1.58	10'
▽▽▽▽	POP-UP TURF SPRAY	RAINBIRD	1806-SAM-12-MPR-PCS-NP	30	65/87/ 13/2.6	12'
▽- - -▽	POP-UP TURF SPRAY	RAINBIRD	3504-PC-SAM-N	25	2.97	30'
●	PRESSURE COMPENSATING FULL CIRCLE BUBBLER	RAINBIRD	1408	30	2.0	1'-3"
★	MULTI-EMITTER DEVICE	RAINBIRD	XBD-80 W/D1-025 & PC10 MODULES. (80 PPH)			

DBC-025 ATTACHED TO THE END OF TUBING

SYMBOLS	DESCRIPTION	MPR.	MODEL NUMBER
	BALL VALVE	HAMMOND	8503
	QUICK COUPLING	NELSON	7645 ACME W/ 641 KE & HOSE SWIVEL.
	CONTROLLER	RAINBIRD	ESP-40MC-SS PED CONTROLLER A,B,C,D,E,&F ESP-24MC-SS PED CONTROLLER X - AT RP-5
	REMOTE CONTROL VALVE	RAINBIRD	EFB-CP PRS-D-NP-HAN 100.125.150
	CONTROL ZONE KIT	RAINBIRD	XCG-025/100
	3" METER (RECLAIMED - COORD. W/ OWNER)		
	BASKET STRAINER	HAYWARD	#72-3" SIMPLEX
	PRESSURE REDUCING VALVE	GRISWOLD	#2280
	MASTER CONTROL VALVE	3" RAINBIRD	300-BPCS-PRS-D
	W/. FLO SENSOR	W/ DATA INDUSTRIAL	IR220

SYMBOLS	DESCRIPTION
---------	-------------

CLASS 200 RECLAIMED WATER PVC PURPLE PIPE LATERAL LINE
CLASS 315 RECLAIMED WATER PVC PURPLE MAIN LINE PIPE (2" & LARGER)
SCHEDULE 40 PVC PURPLE MAINLINE PIPE (1-1/2" OR SMALLER)
SCHEDULE 40 PVC SLEEVE & WIRE CONDUIT - TWICE DIA OF INSERT PIPE
AND WIRE BUNDLES



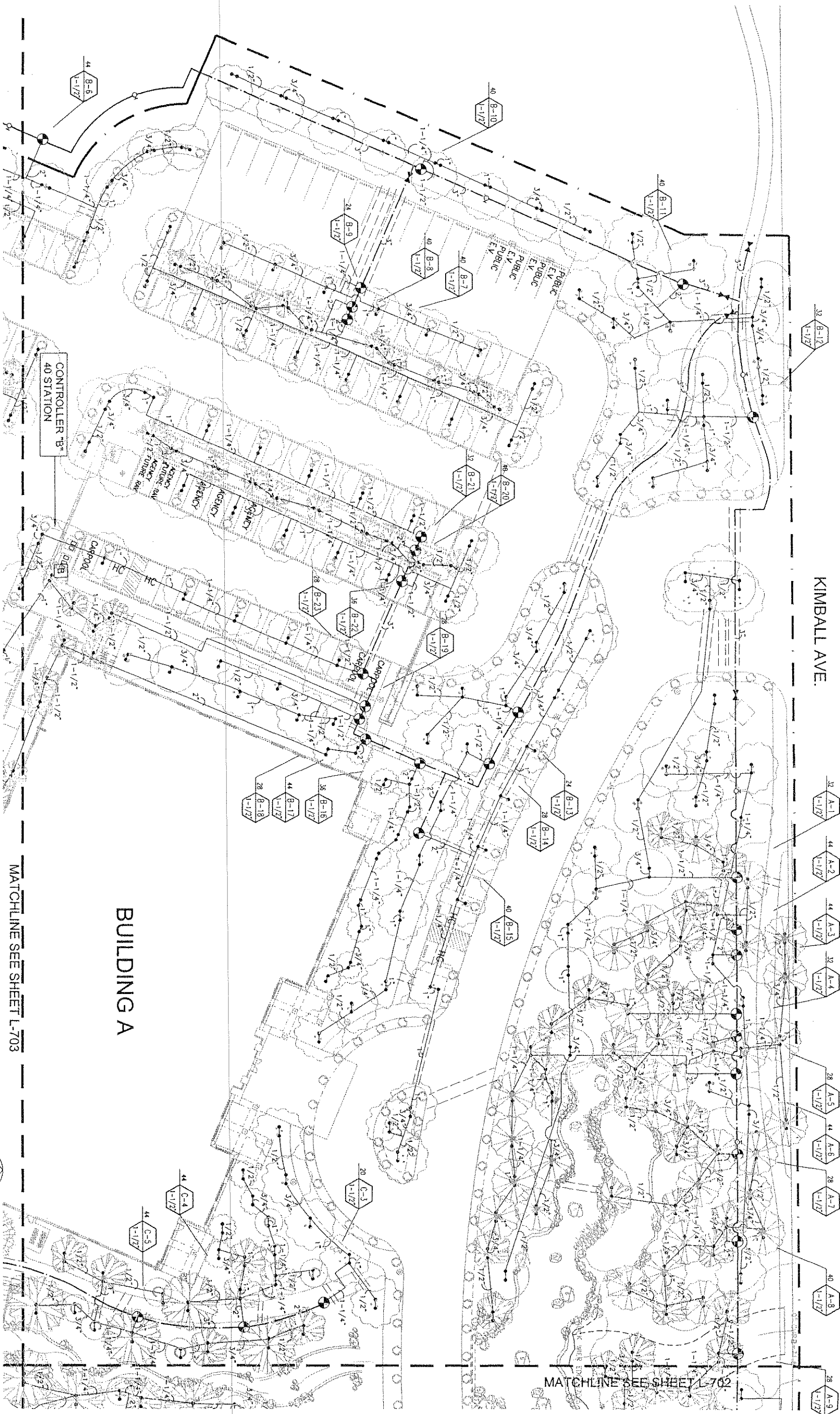
••NOTE:
CONTRACTOR TO PROVIDE SEPARATE BID
ALTERNATE PRICE TO FURNISH AND INSTALL
SCHEDULE 40 PVC CONDUIT FOR ALL IRRIGATION
CONTROL WIRING THROUGHOUT PROJECT.

INLAND EMPIRE UTILITIES AGENCY

<u>LOCATION</u>	<u>MAILING ADDRESS</u>
9400 Cherry Avenue, Building A Fountain, California 92235 Telephone (909) 357-0241	Post Office Box 657 Rancho Cucamonga, California 91730

I.E.U.A. HEADQUARTERS
 PHASE 1 - PROJECT # EN 02038
 IRRIGATION
 LEGEND

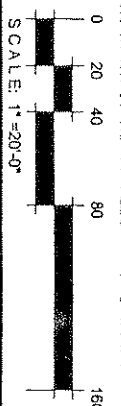
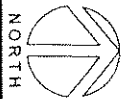
SHEET NO.	27 OF 64	IMO JOB NO	01139.02	DRAWING NO	L-700
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KIMBALL AVE.

BUILDING A

NOTES: - SEE SHEET L-101 FOR KEY MAP
- SEE SHEET L-700 FOR IRRIGATION LEGEND

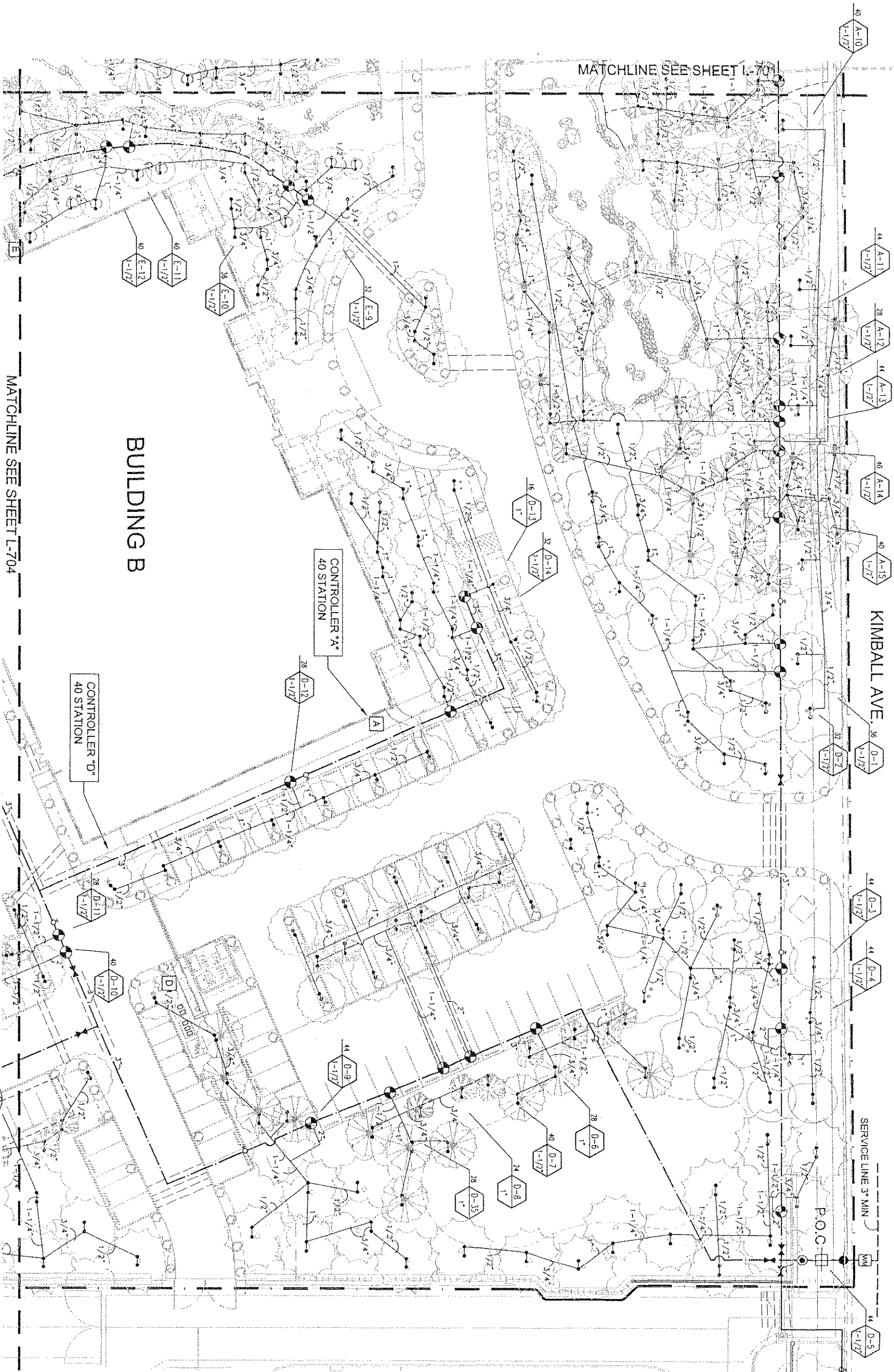


MATCHLINE SEE SHEET L-702

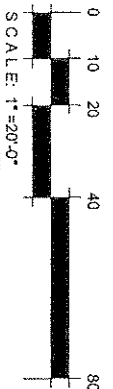
MATCHLINE SEE SHEET L-703

2500 michelson dr
suite 120 92642
949 250 0023
949 250 0043 f

Designed		Reviewed By:		SCALE	AS SHOWN	INLAND EMPIRE UTILITIES AGENCY A Municipal Water District 1600 Cherry Avenue, Banning, CA 92406 Telephone: (909) 327-0251	IEUA HEADQUARTERS PHASE 1 - PROJECT # EN 02038 IRRIGATION PLAN - TREES	SHEET NO. 28 OF 64
Drawn		Project Manager for IEUA		DATE				DATE
Checked		REV. NO.	DATE	BY	APPROV.	DESCRIPTION		DRAWING NO. L-701



NOTES: - SEE SHEET L-101 FOR KEY MAP
- SEE SHEET L-700 FOR IRRIGATION LEGEND



SHEET NO.

LEUA HEADQUARTERS
PHASE 1 - PROJECT # EN02038

IRRIGATION
PLAN - TREES

INLAND EMPIRE UTILITIES AGENCY
A Municipal Water District
4400 Cherry Avenue, Suite 200
Folsom, California 95630
Telephone: (916) 337-1231

SCALE
AS SHOWN
Use Scale as shown on this drawing. Do not use any other scale on this drawing. If not on original drawing, it is not on this drawing. If not on this drawing, it is not on this drawing.

REVIEWED BY: _____
Date: _____
Project Manager for E&U: _____

REV. NO.	DATE	BY	APPROV.	DESCRIPTION

2500 Michelson Dr.
Suite 125
Irvine CA 92612
949.250.0023
949.250.0043 f

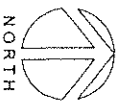
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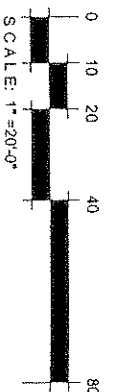
MATCHLINE SEE SHEET L-701

MATCHLINE SEE SHEET L-704

NOTES: - SEE SHEET L-101 FOR KEY MAP
- SEE SHEET L-700 FOR
IRRIGATION LEGEND



NORTH



12/19/02 - BID SET

IF 11A. HEADQUARTERS

PHASE 1 - PROJECT #EN 02038

PLAN - TREES

DRAWING NO. 1702

INLAND EMPIRE UTILITIES AGENCY

LOCATION	MAILING ADDRESS
3400 Cherry Avenue, Building A Fontana, California 92335	Post Office Box 697 Rancho Cucamonga, California 91750



AS SHOWN

BY:

Project Manager for KUA _____ Date _____

[illegible]

1

Year	Number of people (millions)
1980	18
1985	20
1990	22
1995	24
2000	26
2005	28
2010	30
2015	33
2020	38

1

Notes

● 本表数据由国家统计局提供

Abstract

Checked

Figure 1

0043 F

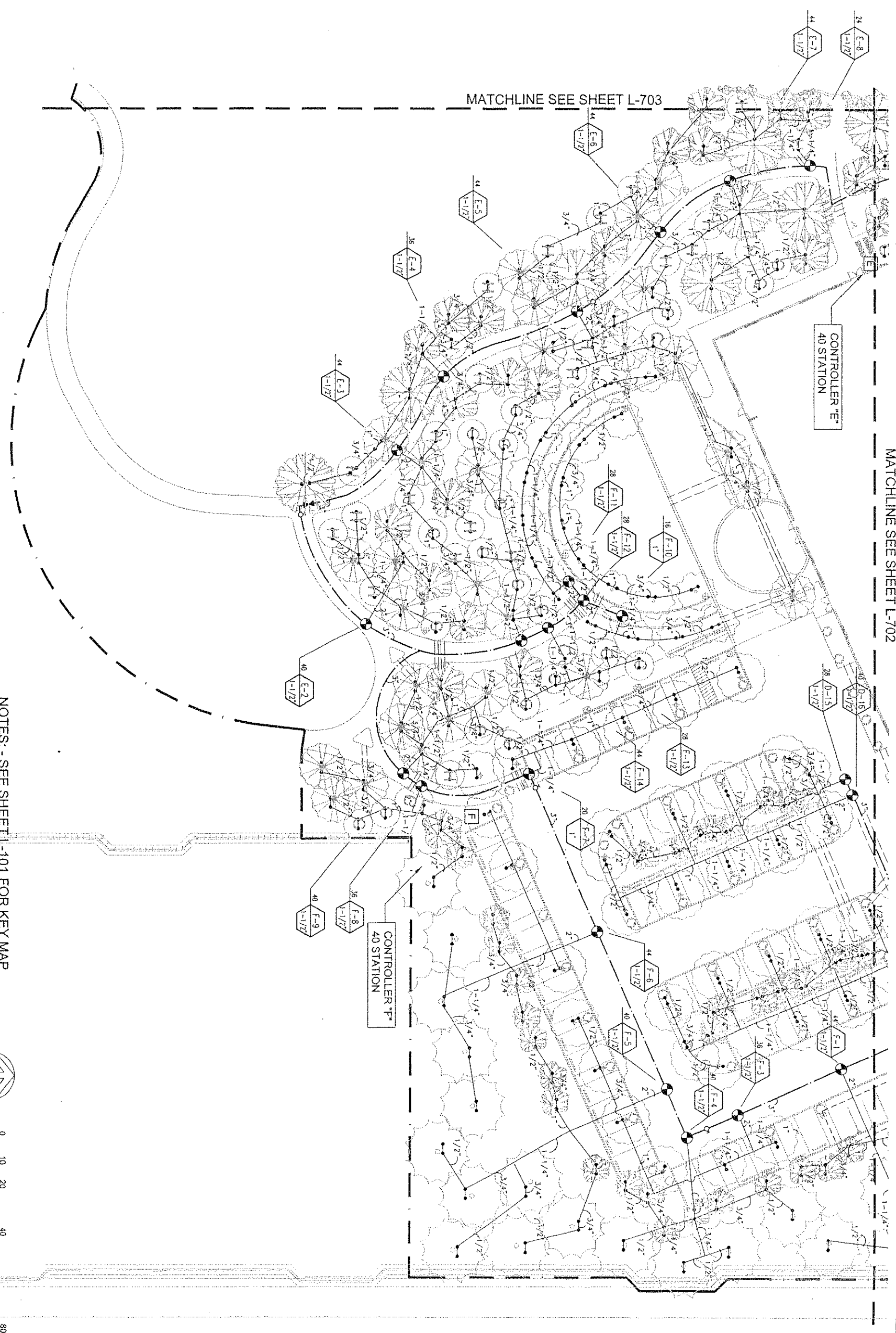
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949

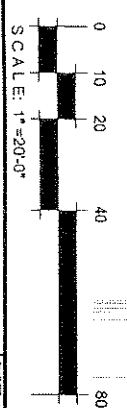
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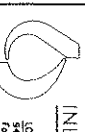
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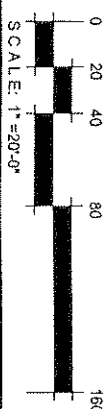


NOTES: - SEE SHEET L-101 FOR KEY MAP
- SEE SHEET L-700 FOR IRRIGATION LEGEND



 2500 michelson dr suite 125 irvine ca 92612 949.250.0023 949.250.0043 f		Designed: _____ Drawn: _____ Checked: _____ Date: _____		REV. NO. DATE BY APPROV. DESCRIPTION		REVIEWED BY: _____ Project Manager for E&U _____ Date: _____		SCALE AS SHOWN See Scale shown below is one foot on original drawing. If reduced scale is indicated, it shall be as shown.		 INLAND EMPIRE UTILITIES AGENCY A Municipal Water District 16000000 5000 Cherry Avenue Building 2 Fountain, California 91130 Telephone (951) 357-0241 Fax (951) 357-0241		SHEET NO. 31 OF 64 REV. JOB NO. 01139.02 DRAWING NO. L-704	
										IE/UA HEADQUARTERS PHASE 1 - PROJECT #EN 02038 IRRIGATION PLAN - TREES			

- REFER TO TREE IRRIGATION PLAN FOR CONDUIT, SLEEVE, MAINLINE(SIZE), GATE VALVE, QUICK COUPLER CONTROLLERS, & WATER METER & APPURTENANCES.



MATCHLINE SEE SHEET L-712

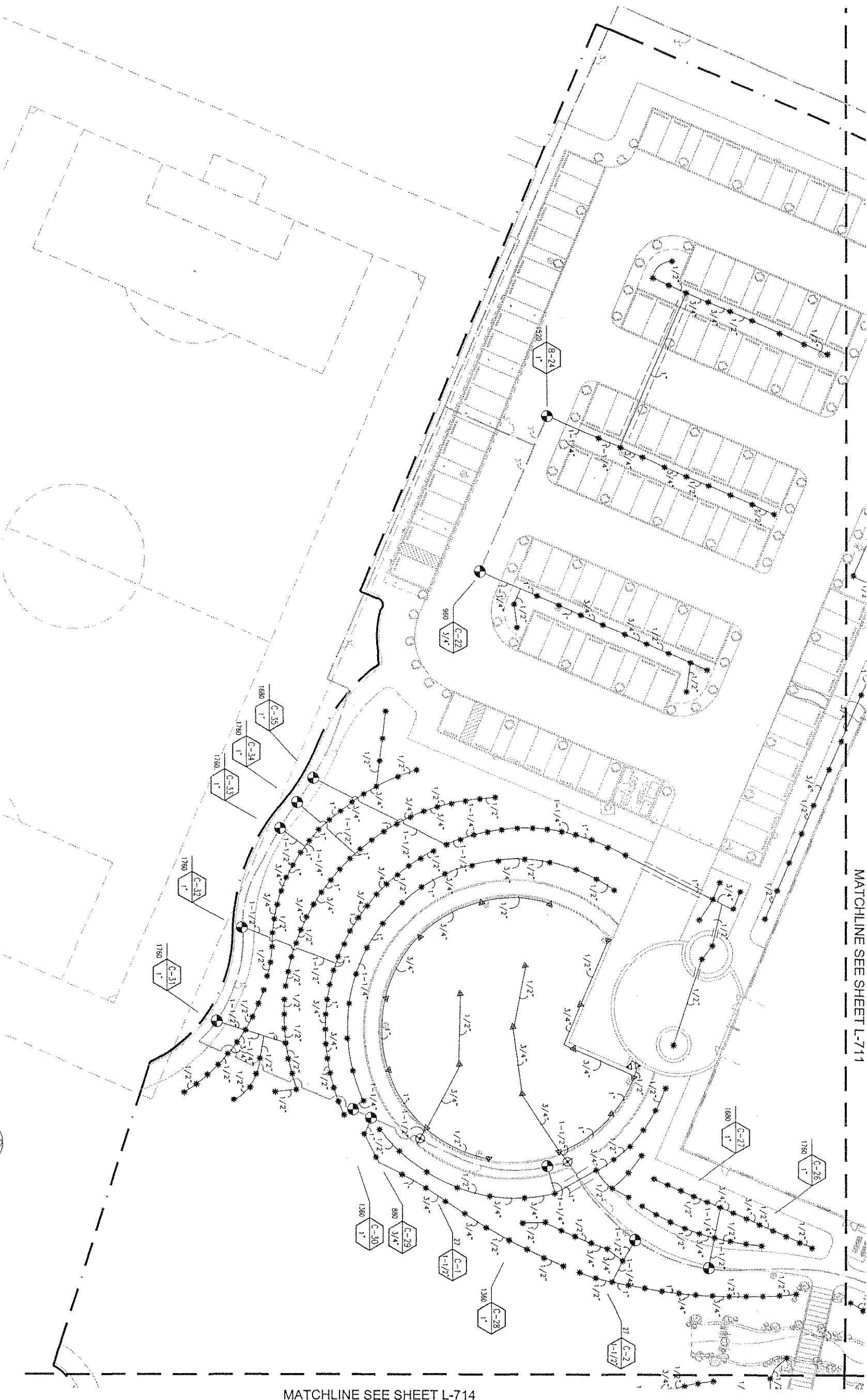
BUILDING A

SHEET NO.	32 OF 64	ISSUE JOB NO.	01139.02
		DRAWING NO.	1-744



330F 64	ima JOB NO.	DRAWING NO.
	01139.02	L-712

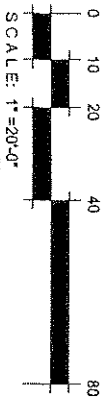
MATCHLINE SEE SHEET L-711



MATCHLINE SEE SHEET L-714

NOTES: - SEE SHEET L-101 FOR KEY MAP
- SEE SHEET L-700 FOR
IRRIGATION LEGEND

- REFER TO TREE IRRIGATION PLAN FOR CONDUIT,
SLEEVE, MAINLINE(SIZE), GATE VALVE, QUICK COUPLER,
CONTROLLERS, & WATER METER & APPURTENANCES.



ind design
2500 michelson dr
suite 125
houston, tx 77057
949.250.0023
949.250.0043 f

Designed: _____
Drawn: _____
Checked: _____
Date: _____

REV. NO.	DATE	BY	APPROV.	DESCRIPTION

REVIEWED BY: _____
Project Manager for E&S _____
Date: _____

SCALE
AS SHOWN
See Scale shown below in one
of the sheets of this set.
Default scales according to
0' = _____ 1"

INLAND EMPIRE UTILITIES AGENCY
A Municipal Water District
5400 Cherry Avenue, Building A
Post Office Box 697
Tempe, Arizona 85281-0697
Telephone (602) 337-0211
FAX (602) 337-0211

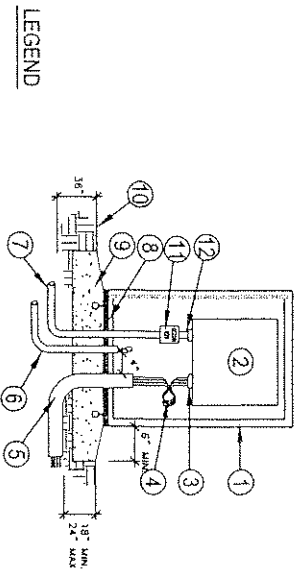
IEUA HEADQUARTERS
PHASE 1 - PROJECT # EN 02038
IRRIGATION
PLAN-SHRUBS

SHEET NO.
34 OF 64
JOB NO.
01039.02
DRAWING NO.
L-713



- REFER TO TREE IRRIGATION PLAN FOR CONDUIT, SLEEVE, MAIN LINE SIZE, GATE VALVE, QUICK COUPLER CONTROLLERS, & WATER METER & APPURTENANCES.

SHEET NO.	35 OF 64	IMA JOB NO	01139.02	DRAWING NO.	I-744
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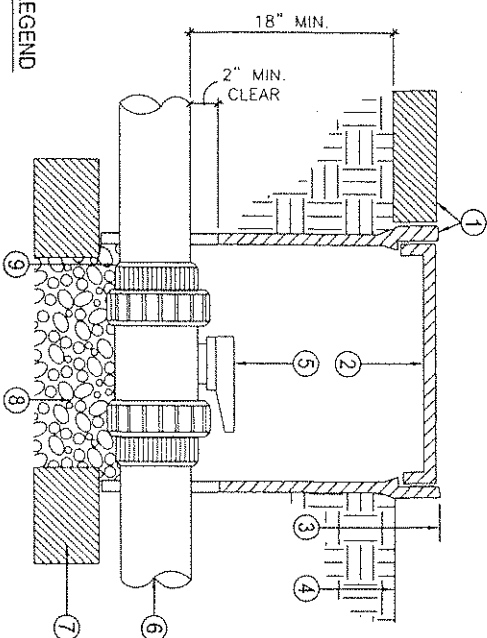


- LEGEND**
- 1 CONTROLLER ENCLOSURE W/ HINGED DOOR
 - 2 AUTOMATIC CONTROLLER (SEE PLANS FOR MANUFACTURER & MODEL) MOUNTED ON ENCLOSURE BACKBOARD
 - 3 INSTALL INSULATION ELECTRICAL BUSHING AT CONTROLLER TO AVOID WEAR ON CONTROL WIRES
 - 4 DIRECT BURIAL WIRES TO CONTROL VALVES INCLUDE 2" EXPANSION LOOP W/ ZIPLOCK TIES BELOW CONTROLLER
 - 5 3" PVC LONG SWEEP ELL
 - 6 1 1/2" SCH 40 CONDUIT WITH PULL CORD FOR COMMUNICATION CABLE (WHERE APPLICABLE)
 - 7 POWER SUPPLY WIRES IN CONDUIT
 - 8 ENCLOSURE BASE PLATE, INSTALL PER MANUFACTURER'S SPECIFICATION
 - 9 CAST IN PLACE CONCRETE BASE - 6" MINIMUM THICKNESS, OR AS REQUIRED BY MANUFACTURER'S SPECIFICATION. EXTEND CONCRETE IN FRONT OF CABINET TO ALLOW UNOBSTRUCTED AREA FOR DOOR TO OPEN WITHOUT HITTING PLANT MATERIAL. SLOPE FINISH SURFACE AWAY FROM ENCLOSURE FOR DRAINAGE
 - 10 FINISH GRADE TO BE 1" BELOW FINISH SURFACE OF BASE IN TURF, 2" IN GROUND COVER
 - 11 120 VOLT ON/OFF SWITCH W/ 15 AMP BREAKER, SQUARE D BREAKER BOX (MODEL #002-41705, OR EQUAL). INCLUDE CONVENIENCE OUTLET W/ BREAKER ASSEMBLY. 120 VOLT POWER & GROUND CONNECTION SHALL BE AT BREAKER BOX. MOUNT INSIDE ENCLOSURE
 - 12 CONDUIT FOR POWER SUPPLY WIRES FROM BREAKER BOX TO CONTROLLER

AUTO CONTROLLER W/ ENCLOSURE

Scale: no scale

LAUT03

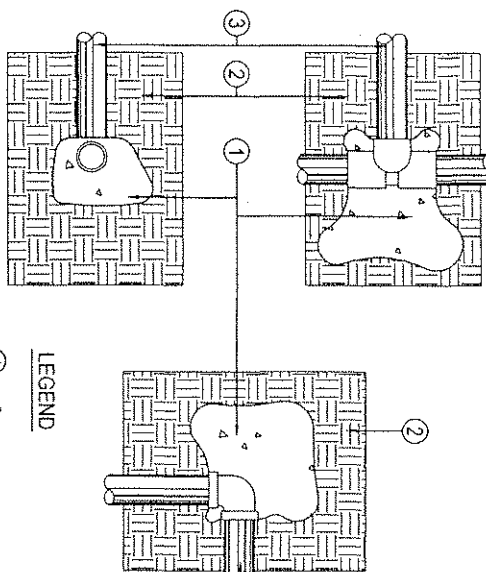


- LEGEND**
- 1 SET VALVE PURPLE BOX FLUSH WITH ADJACENT PAVEMENT, WHERE APPLICABLE
 - 2 ROUND 10" PLASTIC VALVE BOX WITH LOCKING COVER MARKED "IRRIGATION"
 - 3 1" ABOVE FINISH GRADE IN TURF, 2" IN SHRUB & GROUND COVER AREAS
 - 4 FINISH GRADE
 - 5 BALL GATE VALVE
 - 6 PVC MAINLINE PIPE
 - 7 COMMON BRICK (2 REQUIRED)
 - 8 1 1/2" CRUSHED ROCK, MINIMUM 8" DEPTH
 - 9 SOLVENT-WELD UNION TO PIPE (TYPICAL)

GATE VALVE

Scale: no scale

02803-01

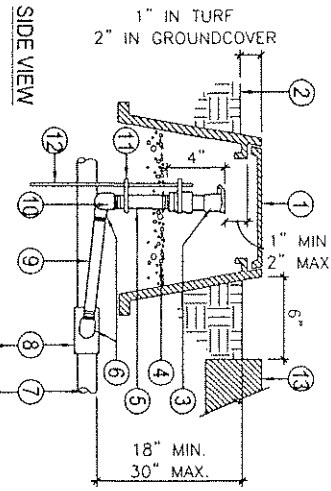


- LEGEND**
- 1 24" SO. MIN. PCC THRUST BLOCK AGAINST UNDISTURBED OR COMPACTED SOIL AT EVERY HORIZONTAL OR VERTICAL CHANGE OF DIRECTION
 - 2 COMPACTED SUBGRADE OR UNDISTURBED SOIL
 - 3 PVC PRESSURE LINES

PCC THRUST BLOCK

Scale: no scale

02800-02

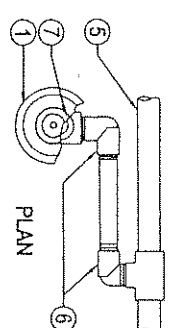


- LEGEND**
- TOP VIEW**
- 1 ROUND 9" PURPLE PLASTIC VALVE BOX WITH COVER MARKED "IRRIGATION"
 - 2 FINISH GRADE
 - 3 QUICK COUPLING VALVE
 - 4 1 1/2" CRUSHED ROCK, 8" DEPTH MINIMUM
 - 5 SCHEDULE 80 PVC 180° ELL NIPPLE (LENGTH AS REQUIRED)
 - 6 SCHEDULE 40 PVC 90 DEGREE STREET ELL
 - 7 MAIN LINE PVC PIPING
 - 8 MAIN LINE SCH 40 PVC FITTING
 - 9 SCHEDULE 80 PVC 180° ELL NIPPLE - 6" LENGTH
 - 10 SCHEDULE 40 PVC 90 DEGREE T x T ELL
 - 11 STAINLESS STEEL CLAMP, 2 REQUIRED
 - 12 #4 x 24" REBAR STAKE, SECURE AT QUICK COUPLER & NIPPLE RISER
 - 13 CURB OR WALK

QUICK COUPLING VALVE

Scale: no scale

MO2804-01



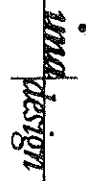
- LEGEND**
- 1 POP-UP SPRAY HEAD
 - 2 FINISH GRADE
 - 3 PVC SCH. 80 NIPPLE - 4" MIN. LENGTH
 - 4 PVC 80 NIPPLE - 6" LONG
 - 5 LATERAL LINE PIPE AND FITTING
 - 6 MARLEX 90 DEGREE STREET ELL
 - 7 PVC T x T 90 DEGREE ELL
 - 8 WALK OR CURB
 - 9 INSTALL TOP OF SPRAY HEAD 8" AWAY FROM CURB OR WALK IN SHRUB AREAS, 1' FROM CURB OR WALK IN TURF AREAS, AND 18" FROM WINDOWS.

NOTE: USE TERTON TAPE ON ALL MALE PIPE THREADS

POP-UP TURF HEAD

Scale: no scale

02801-01



2500 michelson dr
suite 125
irvine ca 92612
949.250.0023
949.250.0043 f

Designed	_____	_____	_____	_____	_____
Drawn	_____	_____	_____	_____	_____
Checked	_____	_____	_____	_____	_____
Date	_____	_____	_____	_____	_____
REV. NO.	DATE	BY	APPROV.	DESCRIPTION	

REVIEWED BY: _____
Project Manager for EIA _____
Date _____

SCALE
AS SHOWN
Per Scale shown, where it is not
noted on drawing, it is one
inch on drawing equals
one foot on site.
0" = 1'

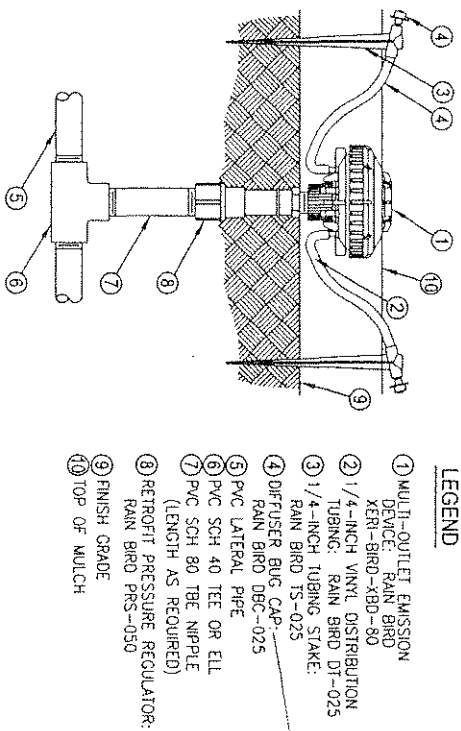


INLAND EMPIRE UTILITIES AGENCY
A Municipal Water District
15000 S. Bascom Avenue, Suite 200
San Jose, California 95128
Telephone (408) 251-0241
Fax (408) 251-0241

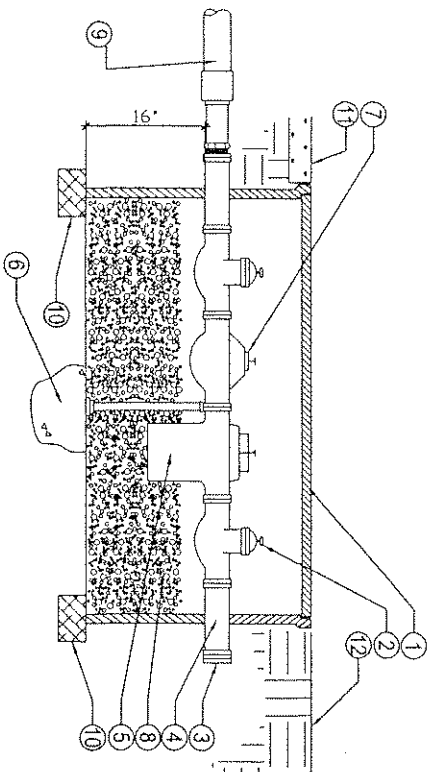
1.E.U.A. HEADQUARTERS
PHASE 1 - PROJECT # EN 02038
IRRIGATION
DETAILS

SHEET NO.
36 OF 64
JOB NO.
01139.02
DRAWING NO.
E-150

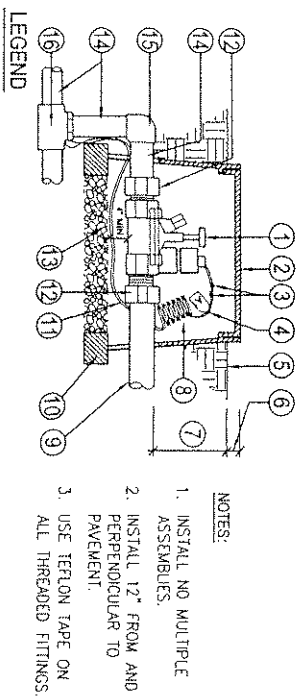
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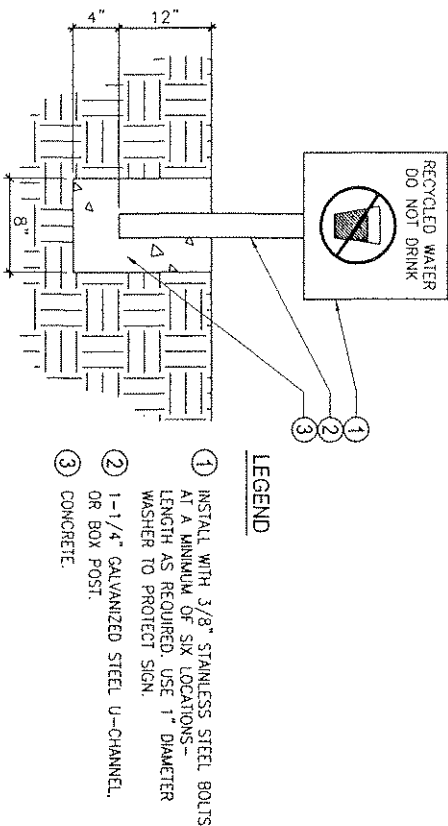
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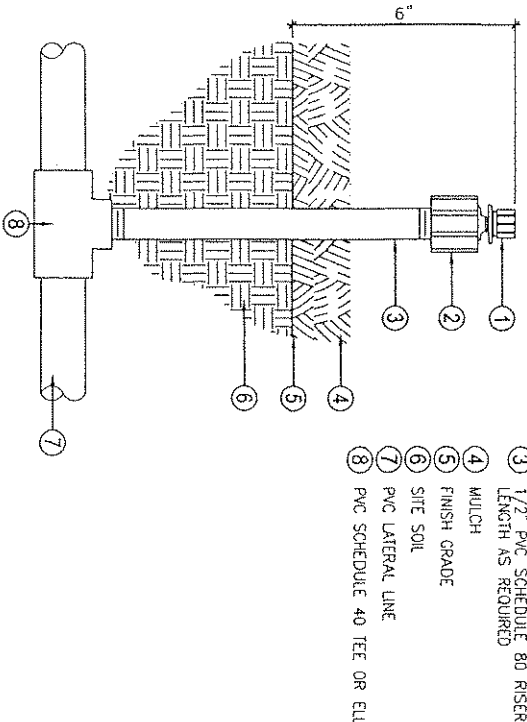
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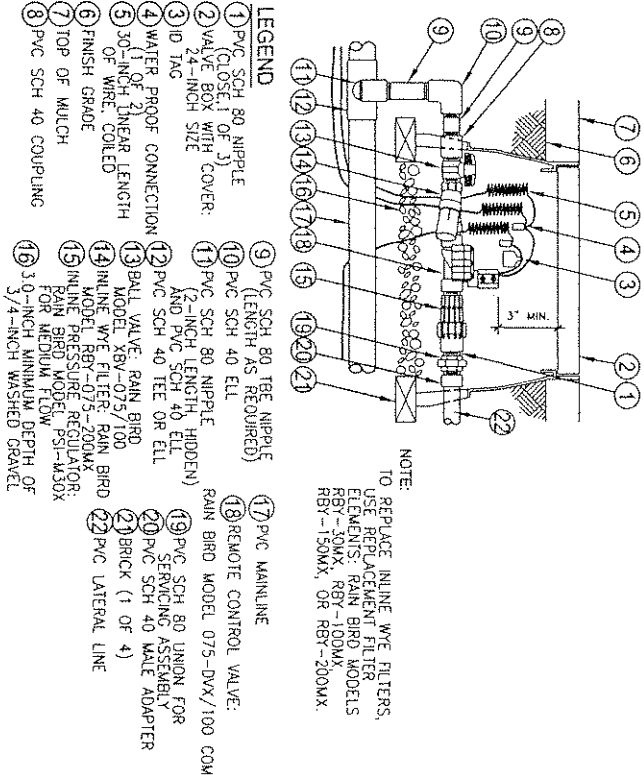


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Scale: no scale

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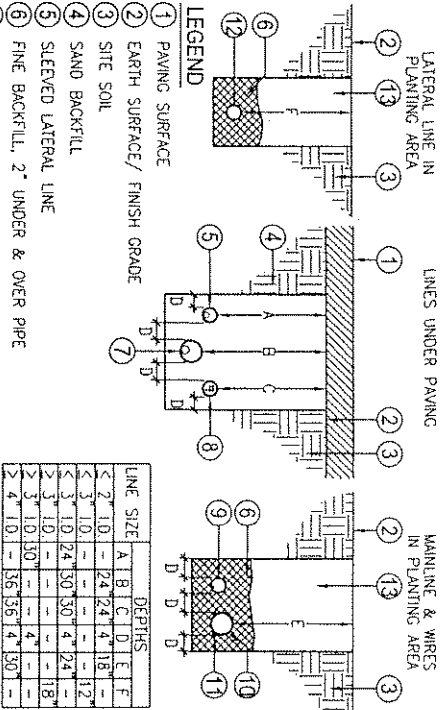
NOTE:
TO REPLACE INLINE WYE FILTERS,
USE REPLACEMENT FILTER
ELEMENTS: RAIN BIRD MODELS
RBY-30MX, RBY-100MX,
RBY-150MX, OR RBY-200MX.

- LEGEND**
- 1 PVC SCH 80 NIPPLE (LOSS 1 OF 3) COVER
 - 2 VALVE BOX WITH COVER 24-INCH SIZE
 - 3 TAP
 - 4 WATER PROOF CONNECTION
 - 5 30-INCH LINEAR LENGTH OF WIRE, COILED
 - 6 FINISH GRADE
 - 7 TOP OF MULCH
 - 8 PVC SCH 40 COUPLING
 - 9 PVC SCH 80 TBE NIPPLE (LENGTH AS REQUIRED)
 - 10 PVC SCH 40 ELL
 - 11 PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN)
 - 12 PVC SCH 40 TEE OR ELL
 - 13 BALL VALVE: RAIN BIRD MODEL XBY-075/100
 - 14 INLINE WYE FILTER: RAIN BIRD MODEL RBY-075-200MX
 - 15 INLINE PRESSURE REGULATOR: RAIN BIRD MODEL RBY-150MX
 - 16 3/4-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
 - 17 PVC MAINLINE
 - 18 REMOTE CONTROL VALVE: RAIN BIRD MODEL 075-DVX/100 COM
 - 19 PVC SCH 80 UNION FOR SERVICING ASSEMBLY
 - 20 PVC SCH 40 MALE ADAPTER
 - 21 BRICK (1 OF 4)
 - 22 PVC LATERAL LINE

XERIGATION CONTROL

Scale: N.T.S.

I-XER-CVT



- LEGEND**
- 1 PAVING SURFACE
 - 2 EARTH SURFACE/ FINISH GRADE
 - 3 SITE SOIL
 - 4 SAND BACKFILL
 - 5 SLEEVED LATERAL LINE
 - 6 FINE BACKFILL, 2" UNDER & OVER PIPE
 - 7 SLEEVED MAINLINE
 - 8 CONTROL WIRES OR COMMUNICATION CABLE IN CONDUIT
 - 9 COMMUNICATION CABLE IN CONDUIT
 - 10 MAINLINE
 - 11 SNAKE PLASTIC PIPES FROM SIDE TO SIDE WITHIN TRENCH TO ALLOW FOR MOVEMENT
 - 12 LATERAL LINE
 - 13 FINE (1/2" MAX. DIA.) GRANULAR BACKFILL
- NOTE:**
- A. TRENCHES SHALL BE WIDE ENOUGH TO ALLOW 4" MINIMUM HORIZONTAL CLEARANCE BETWEEN PARALLEL PIPES
 - B. SNAKE PLASTIC PIPES FROM SIDE TO SIDE WITHIN TRENCH TO ALLOW FOR MOVEMENT
 - C. TIE A 20" LOOP IN ALL WIRING AT CHANGES IN DIRECTION PRIOR TO BACKFILLING TRENCHES
- **NOTE: CONTRACTOR TO ALSO PROVIDE SEPARATE BID ALTERNATE PRICE TO FURNISH AND INSTALL SCHEDULE 40 PVC CONDUIT FOR ALL IRRIGATION CONTROL WIRING THROUGHOUT PROJECT.**

TRENCH DEPTH/ LINE SPACING

Scale: no scale

02800-01

2

ind design

2500 michelson dr
suite 125
irvine ca 92612
949.250.0023
949.250.0043 f

Designed _____
Drawn _____
Checked _____
Date _____

REV	NO	DATE	BY	APPROV	DESCRIPTION

REVIEWED BY: _____
Project Manager for E&A _____
Date _____

SCALE
AS SHOWN
By Scale shown below is one inch on original drawing. If not shown, use 1/4" = 1'-0".
Detail scales accordingly.
1"



INLAND EMPIRE UTILITIES AGENCY
A Municipal Water District
4400 Cherry Avenue, Building A
Fontana, California 92335
Telephone (951) 351-0111
Fax (951) 351-0111

PHASE 1 - PROJECT # EN 02038
IRRIGATION
DETAILS

SHEET NO. 36 OF 64
JOB NO. 01113902
DRAWING NO. L-752

TREE LEGEND

SYMBOLS	BOTANICAL NAME	COMMON NAME	SIZE	QTY. PER PLANS	DESCRIPTION
Function Lawn					
	Quercus virginiana	Southern Live Oak	15 Gal.		Matched Standard Trunk
	Platanus racemosa	Western Sycamore	15 Gal.		Multi-Stem
Oak Association					
	Quercus agrifolia	Coast Live Oak	15 Gal.		Multi-Stem **SEE NOTE BELOW
	Quercus agrifolia	Coast Live Oak	15 Gal.		Standard Trunk (along entry road) **SEE NOTE
	Quercus engelmannii	Engelmann Oak	15 Gal.		Multi-Stem
	Quercus lobata	Valley Oak	15 Gal.		Multi-Stem
	Prunus lyonii	Califino Cherry	15 Gal.		Shrub Form
	Sambucus mexicana	Mexican Elderberry	15 Gal.		Multi-Stem
Parking Area					
	Camphorosma camphora	Camphor Tree (Provide Bid-Mt. price for 15 gal.)	24" Box Standard Trunk		
Pine Association					
	Pinus torreyana	Torrey Pine	15 Gal.		Low-Bronch
Riparian Association					
	Cercis occidentalis	Western Redbud	15 Gal.		Multi-Stem
	Heteromeles arbutifolia	Toyon	15 Gal.		Multi-Stem
	Populus fremontii	Western Cottonwood	15 Gal.		Multi-Stem Male species only
	Sambucus mexicana	Mexican Elderberry	15 Gal.		Multi-Stem
	Platanus racemosa	Western Sycamore	15 Gal.		Multi-Stem
Sycamore Association					
	Platanus racemosa	Western Sycamore	15 Gal.		Multi-Stem
	Sambucus mexicana	Mexican Elderberry	15 Gal.		Multi-Stem
	Quercus agrifolia	Coast Live Oak	15 Gal.		Multi-Stem **SEE NOTE
	Quercus lobata	Valley Oak	15 Gal.		Multi-Stem **SEE NOTE
	Quercus engelmannii	Engelmann Oak	15 Gal.		Multi-Stem **SEE NOTE

NOTES:
*Quantities per plans.
**All Quercus are to be planted on high ground. Do not plant in low points or swales.
To be planted on 1-2' mounds if necessary as determined by landscape architect.

OAK ASSOCIATION

SYMBOLS	BOTANICAL NAME	COMMON NAME	SIZE	SPAC.	NATIVE/ ADAPTIVE
T (Oak) - Tall Shrubs					
	Asclepias californica	California Buckeye	1 Gal.	10'-0" o.c.	N
	Acrostophylos Howard McMan	Manzanita Bush	1 Gal.	10'-0" o.c.	N
	Corpenetia californica Elizabeth	Bush Anemone	1 Gal.	10'-0" o.c.	N
	Ceanothus griseus Santa Ana	Wild Lilac	1 Gal.	10'-0" o.c.	N
	Ceanothus h. 'Yankee Point'	Wild Lilac	1 Gal.	10'-0" o.c.	N
	Cleome isomers	Bladderpod	1 Gal.	10'-0" o.c.	N
	Dendromecon harfordii	Island Bush Poppy	1 Gal.	10'-0" o.c.	N
	Eriogonum giganteum	St. Catherine's Lace	1 Gal.	10'-0" o.c.	N
	Fremontodendron 'California Glory'	Flannel Bush	1 Gal.	10'-0" o.c.	N
	Heteromeles arbutifolia Macrocarpus	Christmas Berry	1 Gal.	10'-0" o.c.	N
	Prunus ilicifolia	Hollyleaf Cherry	1 Gal.	10'-0" o.c.	N
	Rhamnus californica 'Eye Case'	Coffeeberry	1 Gal.	10'-0" o.c.	N
	Rhamnus c. 'White Cloud'	White Cloud Malibu Poppy	1 Gal.	10'-0" o.c.	N
	Rhus integrifolia	Lemonade Berry	1 Gal.	10'-0" o.c.	N
	Rhus ovata	Sugar Bush	1 Gal.	10'-0" o.c.	N
	Ribes indecorum	White Flowering Currant	1 Gal.	10'-0" o.c.	N
	Ribes malvaceum	Chaparral Currant	1 Gal.	10'-0" o.c.	N
	Solvia clevelandii 'Whitford Gilman'	Cleveland Sage	1 Gal.	10'-0" o.c.	N
M (Oak) - Medium Shrubs					
	Baccharis pilularis	Coyote Bush	1 Gal.	6'-0" o.c.	N
	Convolvulus cneorum	Bush Morning Glory	1 Gal.	6'-0" o.c.	A
	Convolvulus montonicus	Ground Morning Glory	1 Gal.	6'-0" o.c.	A
	Gutierrezia speciosa	Island Bush - snapdragon	1 Gal.	6'-0" o.c.	N
	Koeberlinia cordifolia	Heart-leaved Penstemon	1 Gal.	6'-0" o.c.	N
	Ribes speciosum	Fuchsia Gooseberry	1 Gal.	6'-0" o.c.	N
P-Perennial Color					
	Agave angustifolia	Bush Gold	1 Gal.	3'-0" o.c.	A
	Argemone xanthus	Bush Ranget	1 Gal.	3'-0" o.c.	A
	DH- Diplocarpus hybrids	Monkey Flower	1 Gal.	3'-0" o.c.	N
	HM- Heuchera spp.	Coral Bells	1 Gal.	3'-0" o.c.	N
	IR- Iris douglasiana cv. (yellow, rose, purple mix)	Douglas Iris	1 Gal.	3'-0" o.c.	N
	PR- Penstemon setaceum 'Rubrum'	Red Fountain Grass	1 Gal.	3'-0" o.c.	A
	PC- Penstemon centronchiloides	Beard Tongue	1 Gal.	3'-0" o.c.	N
	PS- Penstemon spectabilis	Shoey Penstemon	1 Gal.	3'-0" o.c.	N
Individual Shrubs - Denoted on plan by letter or graphic symbol					
	AH- Abutilon hyb. 'Crimson Belle'	Chinese Lantern	5 Gal.	4'-0" o.c.	A
	BB- Buddleia d. 'Black Knight'	Butterfly Bush	1 Gal.	3'-0" o.c.	A
	CA- Cassia artemisioides	Fedthy Cassia	5 Gal.	5'-0" o.c.	A
	DB- Distictis buccinatoria	Red Trumpet Vine	15 Gal.	0n Gal.	A
	RI- Rosa Iceberg	Iceberg Rose	5 Gal.	2'-6" o.c.	A
	RC- Ruelia californica	ICCN	1 Gal.	3'-0" o.c.	A
	MA- Mahonia lomariifolia	ICCN	5 Gal.	3'-0" o.c.	N
	SR- Solanum rantonnetii	ICCN	15 Gal.	3'-0" o.c.	N
	RO- Rosmarinus officinalis 'Collingwood Ingram'	ICCN	5 Gal.	2'-0" o.c.	A

PARKING LOT SHRUB @ TREE

SHRUB LEGEND

SYMBOLS	BOTANICAL NAME	COMMON NAME	SIZE	NATIVE/ ADAPTIVE	REMARKS
RO	Rosmarinus officinalis 'Collingwood Ingram'	Rosemary	1 Gal. A	2 @ Ea. Tree (at Bubbler)	

MEADOW

DRY HYDROSEED MIX (NON-IRRIGATED)

SYMBOLS	BOTANICAL NAME	COMMON NAME	APPLICATION RATE	NATIVE/ ADAPTIVE	REMARKS
	Artemisia douglasiana	Douglas Mugwort	0.2 lbs./Acres	N	
	Atriplex confertifolia	Four-Wing Saltbush	3.0 lbs./Acres	N	
	Baccharis salicifolia	Male Fat	0.1 lbs./Acres	N	100%
	Eriogonum fasciculatum	Bush Sunflower	1.0 lbs./Acres	N	
	Eschscholzia californica	California Buckwheel	2.0 lbs./Acres	N	
	Lolium scoparium brevidens	Deerweed	4.0 lbs./Acres	N	
	Lupinus truncatus	Muttill	2.0 lbs./Acres	N	
	Mimulus aurantiacus	Monkey Flower	0.1 lbs./Acres	N	
	Salvia columbitorae	Chia	2.0 lbs./Acres	N	
	Salvia mellifera	Black Sage	0.5 lbs./Acres	N	

**Hydroseed mix to be installed during wet months (Nov.-Feb.). Contractor responsible to temporarily water hydroseed mix through germination should this not be possible due to scheduling.

++NOTE: ALL PLANTING AREAS (EXCEPT HYDROSEEDED PLANTING AREAS) TO RECEIVE A 1-1/2" DEEP LAYER OF RUBBERIFIC MULCH - SEE SPECIFICATIONS

PINE ASSOCIATION

SYMBOLS	BOTANICAL NAME	COMMON NAME	SIZE	SPAC.	NATIVE/ ADAPTIVE
T (Pine) - Tall Shrubs					
	Artemisia arbuscens	ICCN	1 Gal.	6'-0" o.c.	N
	Cistus x hybridus	White Rockrose	1 Gal.	6'-0" o.c.	A
	Cistus purpureus	Orchid Rockrose	1 Gal.	6'-0" o.c.	A
	Dendromecon rigida	Bush Poppy	1 Gal.	6'-0" o.c.	N
	Eriogonum giganteum	St. Catherine's Lace	1 Gal.	6'-0" o.c.	N
	Eriogonum fasciculatum	California Buckwheel	1 Gal.	6'-0" o.c.	N
	Heteromeles arbutifolia	Toyon	1 Gal.	6'-0" o.c.	N
	Laetia bicolor	Tree Malow	1 Gal.	6'-0" o.c.	A
	Leptospermum laevigatum	Australian Tea Tree	1 Gal.	6'-0" o.c.	A
	Metrosideros excelsus	New Zealand Christmas Tree	1 Gal.	6'-0" o.c.	A
	Rhus integrifolia	Lemonade Berry	1 Gal.	6'-0" o.c.	N
	Rosmarinus officinalis	Rosemary	1 Gal.	6'-0" o.c.	A
	Solvia clevelandii	Cleveland Sage	1 Gal.	6'-0" o.c.	N
	Solvia leucontho	Mexican Bush Sage	1 Gal.	6'-0" o.c.	A
	Simmondsia chinensis	Mountain Sage	1 Gal.	6'-0" o.c.	N
	Westringia fruticosa	Coast Rosemary	1 Gal.	6'-0" o.c.	A

SYCAMORE ASSOCIATION

SHRUB LEGEND

SYMBOLS	BOTANICAL NAME	COMMON NAME	SIZE	SPAC.	NATIVE/ ADAPTIVE
T (Syc) - Tall Shrubs					
	Acrostophylos Howard McMan	Sonoma Manzanita	1 Gal.	10'-0" o.c.	N
	Corpenetia californica	Bush Anemone	1 Gal.	10'-0" o.c.	N
	Ceanothus 'Candice'	Wild Lilac	1 Gal.	10'-0" o.c.	N
	Ceanothus 'Frosty Blue'	Wild Lilac	1 Gal.	10'-0" o.c.	N
	Ceanothus 'Wheeler Canyon'	Wild Lilac	1 Gal.	10'-0" o.c.	N
	Fremontodendron 'San Gabriel'	Southern Flannel Bush	1 Gal.	10'-0" o.c.	N
	Heteromeles arbutifolia	Toyon	1 Gal.	10'-0" o.c.	N
	Rhamnus californica 'Eye Case'	Coffeeberry	1 Gal.	10'-0" o.c.	N
	Rhamnus coulteri	Malibu Poppy	1 Gal.	10'-0" o.c.	N
	Rhus ovata	Sugar Bush	1 Gal.	10'-0" o.c.	N
M (Syc) - Medium Shrubs					
	Ceanothus griseus horizontalis	Carmel Ceanothus	1 Gal.	6'-0" o.c.	N
	Ribes viburnifolium	Evergreen Currant	1 Gal.	6'-0" o.c.	N
	Ruelia peninsularis	ICCN	1 Gal.	6'-0" o.c.	A
	Solvia clevelandii	Cleveland Sage	1 Gal.	6'-0" o.c.	N
	SG- Solvia greggii	Autumn Sage	1 Gal.	6'-0" o.c.	A
P (Syc) - Perennial Color					
	AG- Angazanthus hyb. 'Bush Gold'	Kongaroo Paw	1 Gal.	3'-0" o.c.	A
	AR- Angazanthus hyb. 'Bush Ranget'	Kongaroo Paw	1 Gal.	3'-0" o.c.	A
	Dipacus hybrids	Monkey Flower	1 Gal.	3'-0" o.c.	N
	Heuchera spp.	Coral Bells	1 Gal.	3'-0" o.c.	N
	Iris douglasiana	Douglas Iris	1 Gal.	3'-0" o.c.	N
	PR- Penstemon setaceum 'Rubrum'	Red Fountain Grass	1 Gal.	3'-0" o.c.	A
	PS- Penstemon centronchiloides	Beard Tongue	1 Gal.	3'-0" o.c.	N
	SH- Penstemon spectabilis	Shoey Penstemon	1 Gal.	3'-0" o.c.	N
	Individual Shrubs - Denoted on plan by letter or graphic symbol	Butterfly Bush	1 Gal.	3'-0" o.c.	A
	BB- Buddleia d. 'Black Knight'	Butterfly Bush	1 Gal.	3'-0" o.c.	A
	Perthocissus tricuspidata	Boston Ivy	1 Gal.	3'-0" o.c.	A

& P/L Walls 10' @ RP-5 FRONTAGE

FUNCTION LAWN

TURF LEGEND

SYMBOLS	BOTANICAL NAME	COMMON NAME	SIZE	SPAC.	REMARKS
TURF	Cynodon dactylon 'Santa Ana'	Hybrid Bermuda	500	-	-

PARKING AREA (BIOFILTER)

SYMBOLS	BOTANICAL NAME	COMMON NAME	SIZE	SPAC.	NATIVE/ ADAPTIVE	REMARKS
JP	Juncus patens	California Grey Rush	1 Gal.	4'-0" o.c.	N	-
AL	Acorus gramineus 'Licence'	Japanese Sweet Flag	1 Gal.	4'-0" o.c.	A	-
PI	Penstemon incomptum	Meadow Penstemon	1 Gal.	4'-0" o.c.	A	-
PP	Phlox arundinacea picta	Ribbon Grass	1 Gal.	4'-0" o.c.	A	-

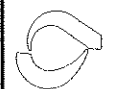
2500 michelson dr
Suite 100
Irvine CA 92612
949.250.0023
949.250.0043 f

Designed: _____
Drawn: _____
Checked: _____
Date: _____

REV. NO. DATE BY APPROD

REVIEWED BY: _____
Date: _____
Project Manager for GSA

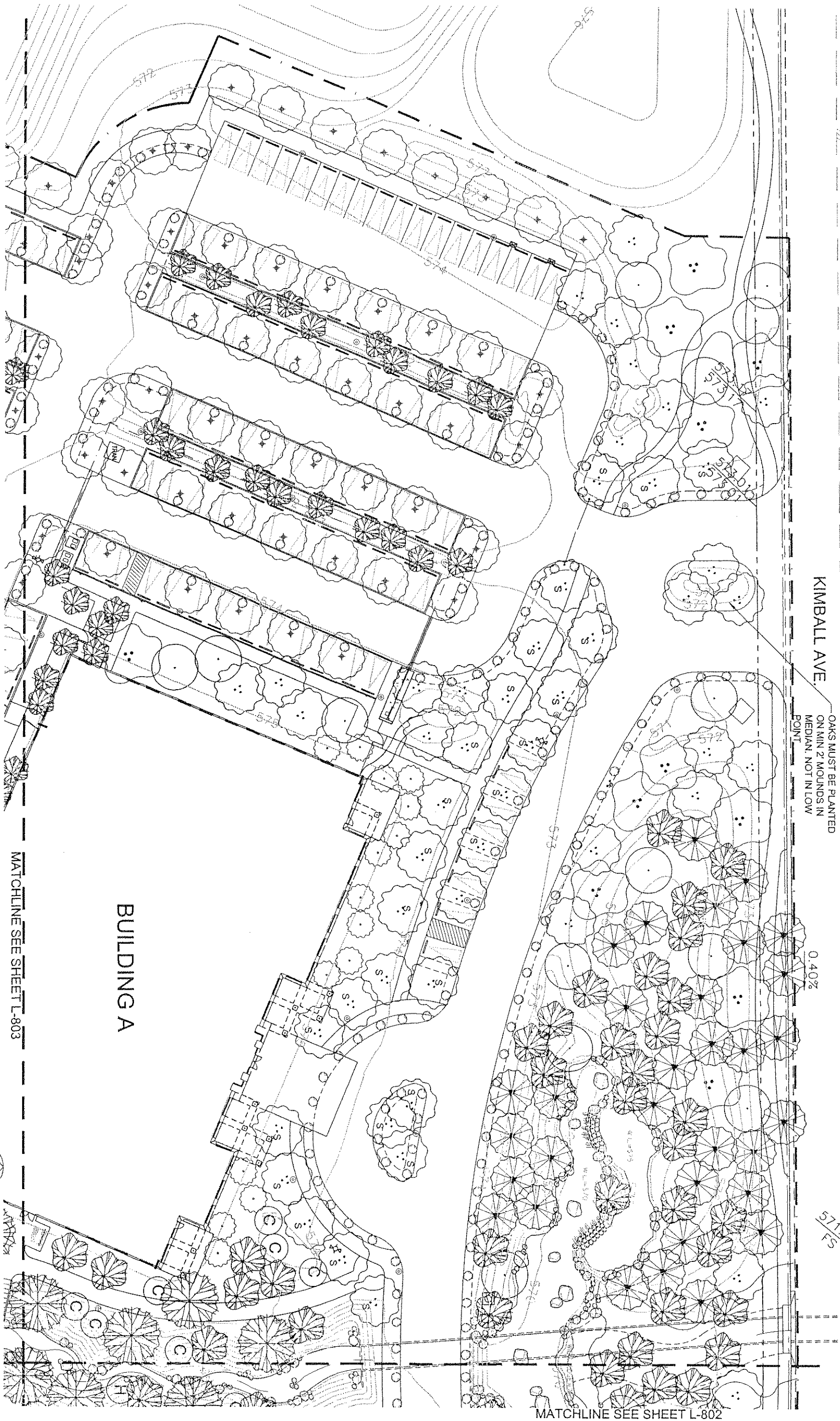
SCALE
AS SHOWN
1" = 10'
1" = 10'



INLAND EMPIRE UTILITIES AGENCY
LOCATION: 3100 Irvine Blvd., Suite 100
Irvine, CA 92614
Phone: (949) 253-7041

PHASE 1 - PROJECT # EN 02038
PLANTING LEGENDS

SHEET NO.
39 OF 64
DATE: 01/13/02
DRAWING NO.
L-800



KIMBALL AVE.

OAKS MUST BE PLANTED
ON MIN 2' MOUNDS IN
MEDIAN, NOT IN LOW
POINT

0.40%

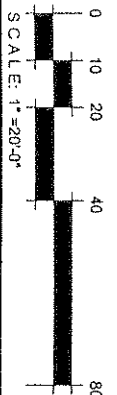
5/7/2

MATCHLINE SEE SHEET L-802

MATCHLINE SEE SHEET L-803

BUILDING A

NOTES: - SEE SHEET L-101 FOR KEY MAP
- SEE SHEET L-800 FOR
SHRUB/TREE LEGENDS



ind design
2500 michelson dr
suite 125
irvine ca 92612
949.250.0023
949.250.0043 f

Designed	_____	Reviewed by the Designer		
Drawn	_____	Reviewed by the Drafter		
Checked	_____	Reviewed by the Checker		
Date	_____	_____		
REV NO	DATE	BY	APPROV	DESCRIPTION

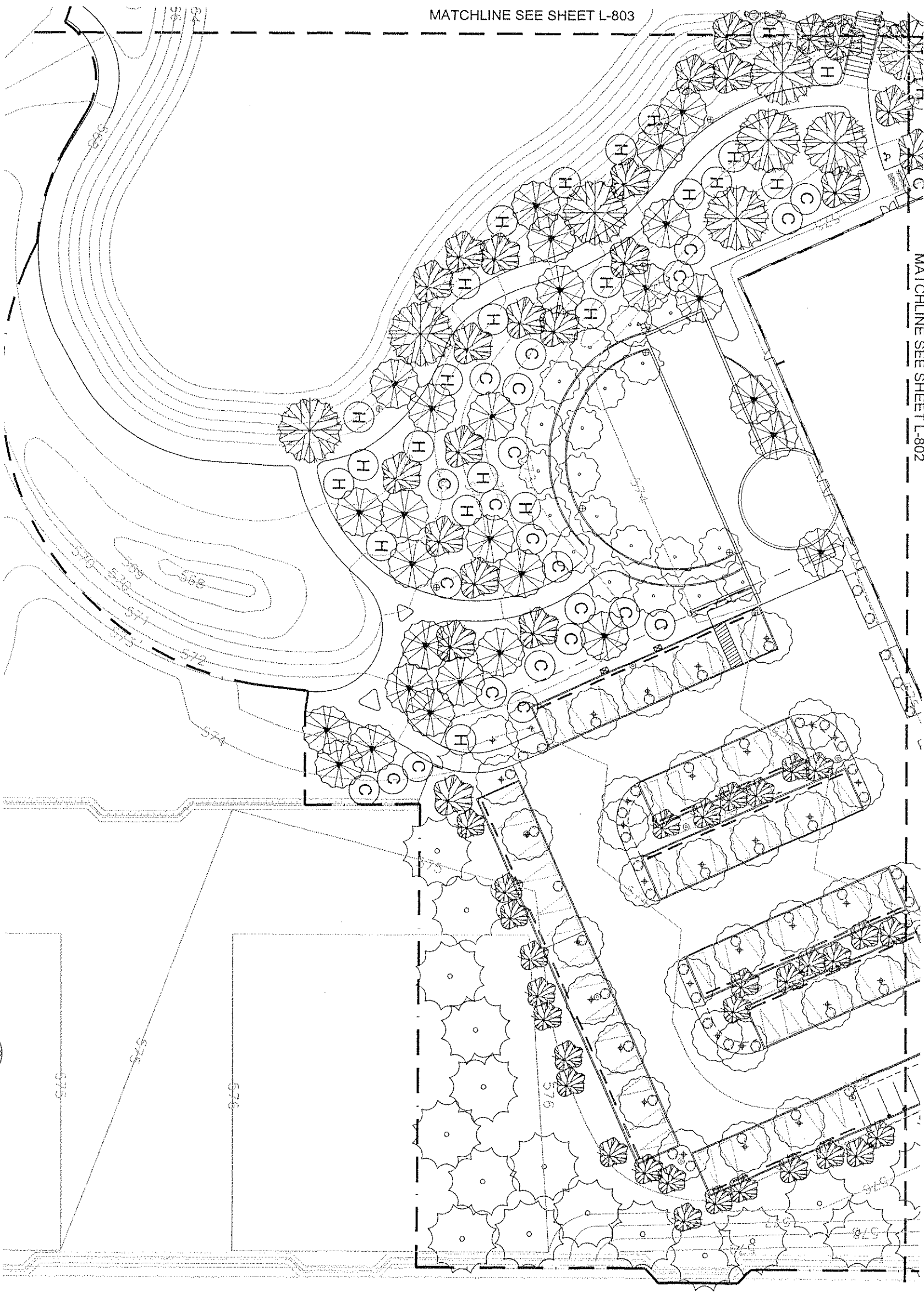
REVIEWED BY:	Date
Project Manager for ECU	

SCALE
AS SHOWN
Big Scale shown below is one
not one inch on this sheet.
adjust scales accordingly.
0" 1"

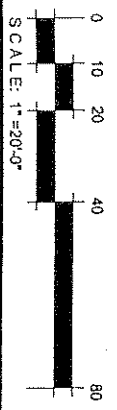

INLAND EMPIRE UTILITIES AGENCY
A Municipal Water District
LOCATION: 8000 Cherry Avenue, Building A
Riverside, CA 92504
Phone: (951) 517-1241
FAX: (951) 517-1241
MAILING ADDRESS: Post Office Box 697
Riverside, California 91730

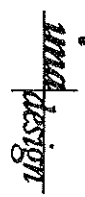
IEUA HEADQUARTERS
PHASE 1 - PROJECT # EN02038
TREE PLANTING
PLAN

SHEET NO.
4005 64
JOB NO.
011139 02
DRAWING NO.
L-801



NOTES: - SEE SHEET L-101 FOR KEY MAP
- SEE SHEET L-800 FOR SHRUB/TREE LEGENDS





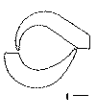
2500 michelson dr
suite 125
irvine ca 92612
949.230.0023 f
949.230.0043 t

Designed	
Drawn	
Checked	
Date	

REV. NO.	DATE	BY	APPROV.	DESCRIPTION

REVIEWED BY: _____
Project Manager for IEUA _____ Date _____

AS SHOWN
Big Scale shown below is one
set on original drawing. If
not one set on this sheet,
check scales (Section 1)
0" = _____ 1"

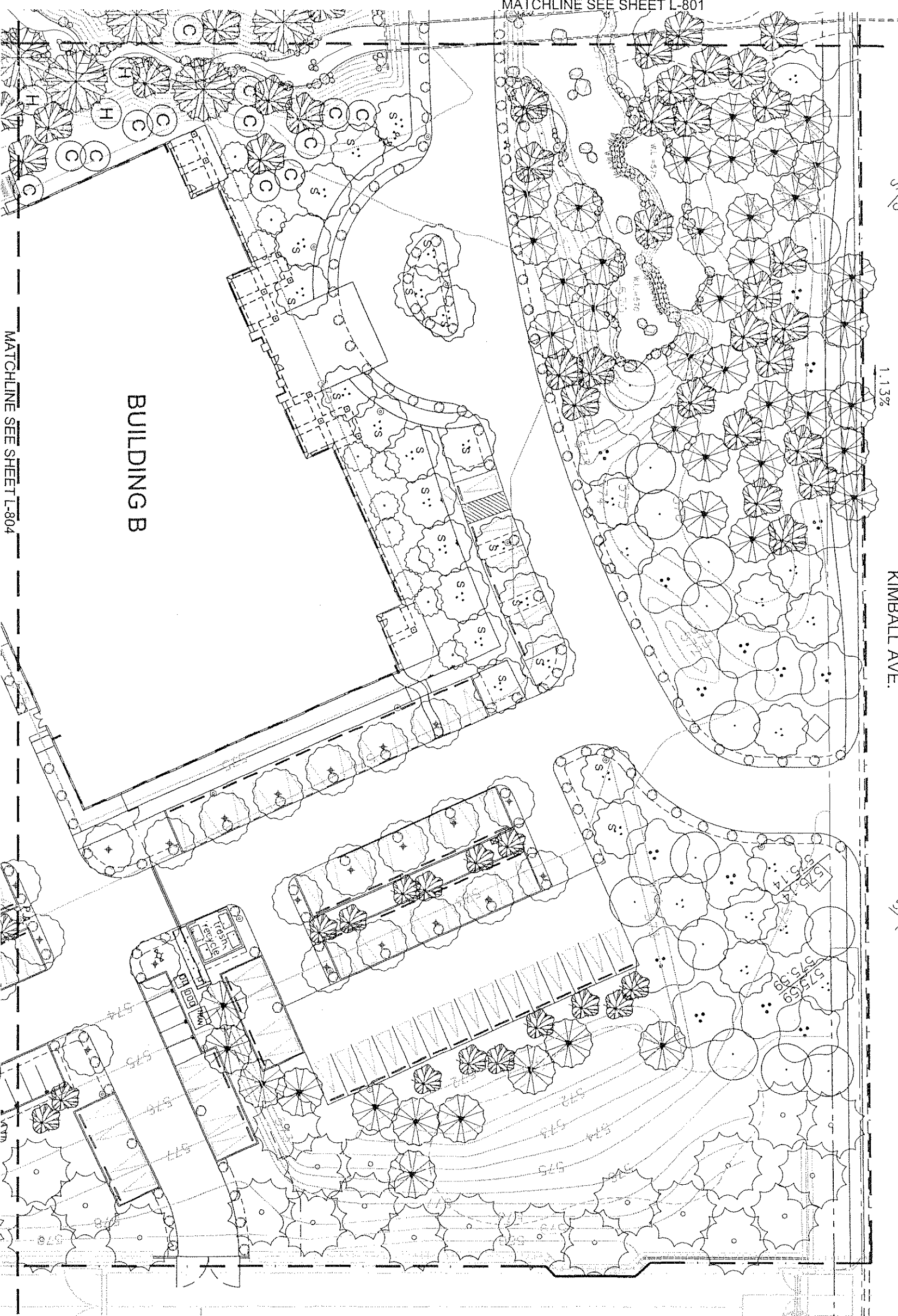


INLAND EMPIRE UTILITIES AGENCY
LOCATION: A Municipal Water District
10000 Irvine Blvd., Suite 100
Fountain, California 92335
Telephone (909) 357-0241

MAILING ADDRESS:
Inland Empire Utilities Agency
P.O. Box 10000
Fountain, California 92335
Telephone (909) 357-0241

IEUA HEADQUARTERS
PHASE I - PROJECT # EN 02038
TREE PLANTING
PLAN

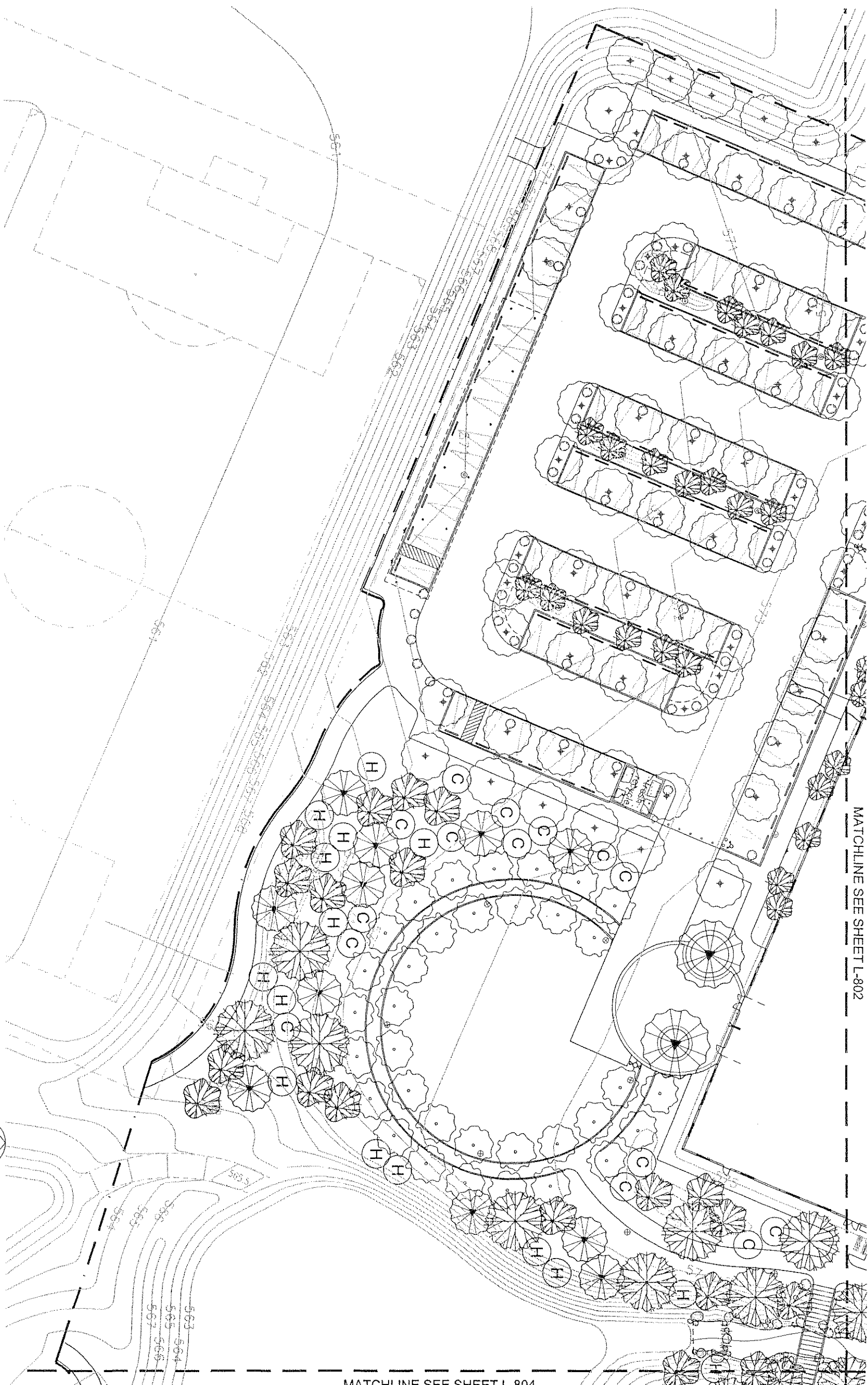
SHEET NO.	43 OF 64
JOB NO.	0113502
DRAWING NO.	L-804



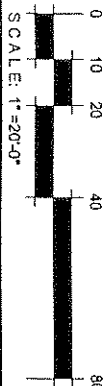
MATCHLINE SEE SHEET L-804

Figure 1 is a bar chart showing the percentage of total sample for each age group. The x-axis represents age groups: 0, 10, 20, 40, and 80. The y-axis represents the percentage of the total sample, with a scale of 1° = 20.0°. The bars show the following approximate percentages: 0 (10%), 10 (10%), 20 (10%), 40 (10%), and 80 (40%).

SHEET NO.	41 OF 64
Ima JOB NO.	01139.02
DRAWING NO.	L-802



NOTES: - SEE SHEET L-101 FOR KEY MAP
- SEE SHEET L-800 FOR
SHRUB/TREE LEGENDS



		2500 michelson dr suite 125 irvine ca 92612 949 250.0023 949 250.0043 f	
Designed	_____	Reviewed By:	_____
Drawn	_____	Project Manager for E&A	_____
Checked	_____	Date	_____
Date	_____	REV. NO.	_____
	_____	DATE	_____
	_____	BY	_____
	_____	APPROV	_____
	_____	DESCRIPTION	_____
SCALE		AS SHOWN	
1" = 20'-0"		See Note: This drawing is not to be used for construction without the original drawing. If used for construction, it is the user's responsibility to verify the accuracy of the drawing.	
		INLAND EMPIRE UTILITIES AGENCY	
LOCATION: 11111 Main Street, Suite 100, Riverside, CA 92503 Telephone: (951) 517-0211		A Municipal Water District MAILING ADDRESS: Inland Empire Utilities Agency P.O. Box 10000, Riverside, CA 92503 Telephone: (951) 517-0211	
SHEET NO.		42 OF 64	
DRAWING NO.		01139.02	
PROJECT NO.		L-803	

2500 michelson dr
suite 125
irvine ca 92612
949.250.0023
949.250.0043 f

Designed	Drawn	Checked	Date

[illegible]

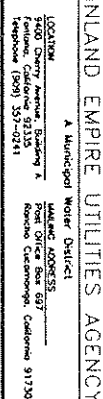
DESCRIPTION

REVIEWED BY: _____

Project Manager for ECUA _____

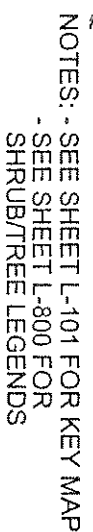
Date _____

AS SHOWN
Bar Scale shown below is on
inch on original drawing. It
NOT one inch on this sheet
adjust scales accordingly.
0"  1"



PHASE 1 - PROJECT # EN 02038
PLANTING
ZONE PLAN

44 Of 64	time JOB NO	DRAWING NO
	01139.02	L-900



MATCHLINE SEE SHEET L-903

SHRUB/TREE LEGENDS

SCALE: 1"=20'-0"

1

12/19/02 - BID SET

2500 michelson dr
suite 125
irvine ca 92612
949.250.0023
949.250.0043 f

2500 michelson dr
suite 125
irvine ca 92612
949.250.0023
949.250.0043 f

Designed _____
 Drawn _____
 Checked _____
 Date _____

1. 2010年10月1日起，凡在中华人民共和国境内销售货物或者提供加工、修理修配劳务以及进口货物的单位和个人，均应按照《中华人民共和国增值税暂行条例》及实施细则缴纳增值税。

REVIEWED BY: _____
Project Manager for KILM _____

AS SHOWN

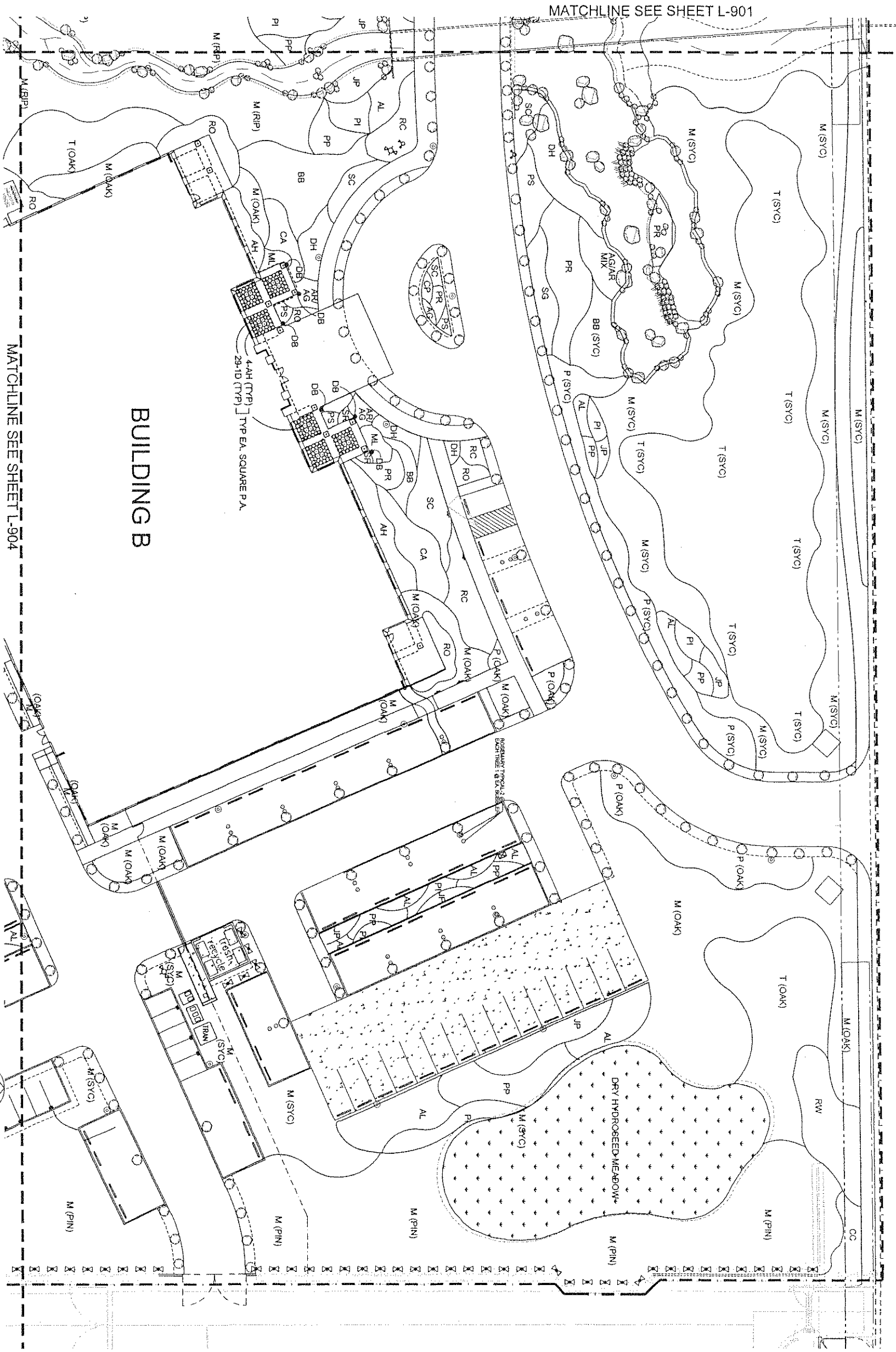


INLAND EMPIRE UTILITIES AGENCY	
A Municipal Water District	
LOCATION	MAILING ADDRESS
9400 Cherry Avenue, Building A Ontario, California 91763	Post Office Box 697 Rancho Cucamonga, California 91730

PHASE 1 - PROJECT # EN 02038
SHRUB PLANTING
PLAN

ima JOB	DRAWING
01139.	1-9

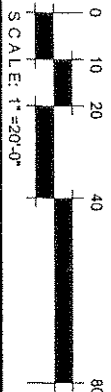
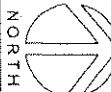
KIMBALL AVE.



BUILDING B

MATCHLINE SEE SHEET L-904

NOTES: - SEE SHEET L-101 FOR KEY MAP
- SEE SHEET L-800 FOR SHRUB/TREE LEGENDS



2500 Mitchellson Dr
Suite 120
Ovington, CA 92038
949.250.0043 f

Designed		Drawn		Checked		Date	
REV. NO.	DATE	BY	APPROV.	DESCRIPTION	REVIEWED BY:	Date	

SCALE

AS SHOWN

By Scale shown below is one inch equals one foot. All dimensions are in feet unless otherwise noted. All dimensions are to the center of the object unless otherwise noted.

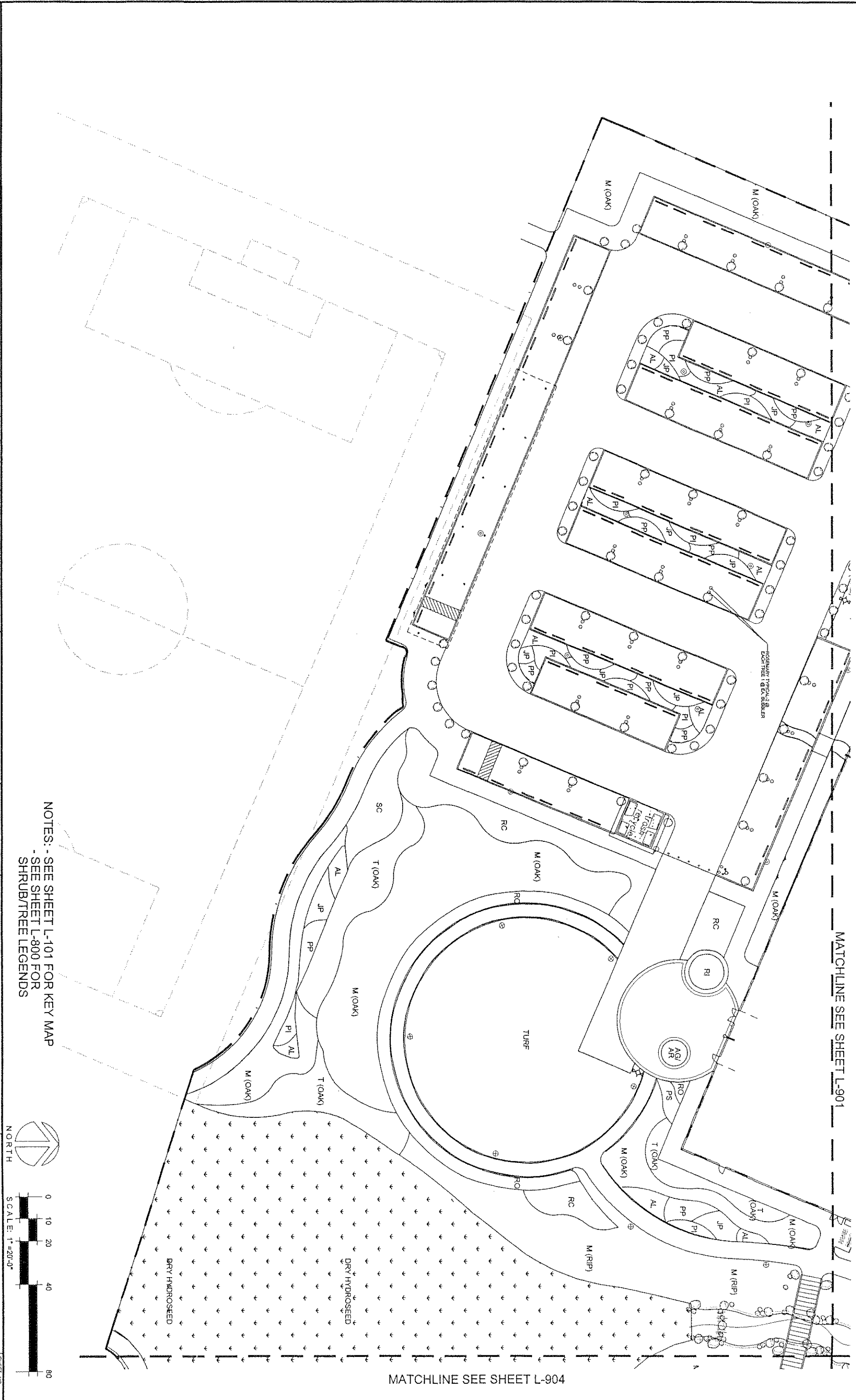
INLAND EMPIRE UTILITIES AGENCY

LOCATION: 3400 Century Avenue, Building A, Irvine, California 92614
Phone: (949) 337-0241

MAILING ADDRESS: 3400 Century Avenue, Building A, Irvine, California 92614
Phone: (949) 337-0241

IEUA HEADQUARTERS
PHASE 1 - PROJECT # EN 02038
SHRUB PLANTING
PLAN

SHEET NO.
46 OF 64
JOB NO.
0113502
DRAWING NO.
L-902



imd
design

2500 michelson dr
suite 125
irvine ca 92612
949.250.0023
949.250.0043 f

Designed _____
 Drawn _____
 Checked _____
 Date _____

REVIEWED BY: _____
Project Manager for IEUA _____ Do

AS SHOWN



INLAND EMPIRE UTILITIES AGENCY

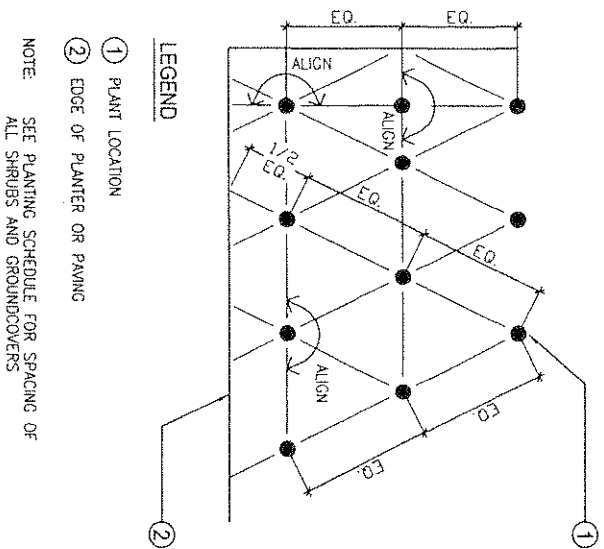
A Municipal Water District

LOCATION
9400 Central Avenue, Building A
Fontana, California 92335
Telephone (800) 347-0741

MAILING ADDRESS
Post Office Box 637
Rancho Cucamonga, California 91720

LEUA HEADQUARTERS
PHASE 1 - PROJECT # EN 02038
SHRUB PLANTING
PLAN

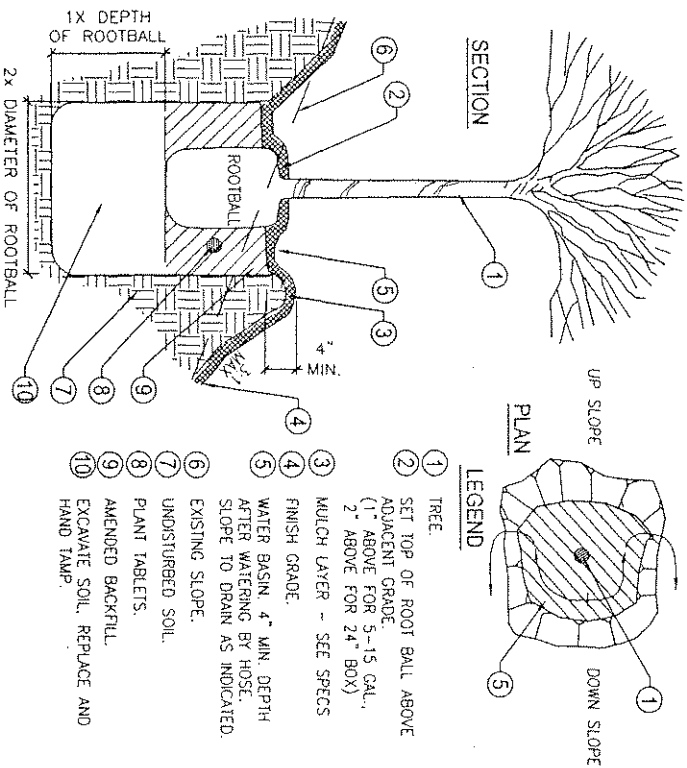
SHEET NO.	48 OF 64
IMO JOB NO.	01139.02
DRAWING NO.	1-904



TRIANGULAR SHRUB/G.C. SPACING

Scale: no scale

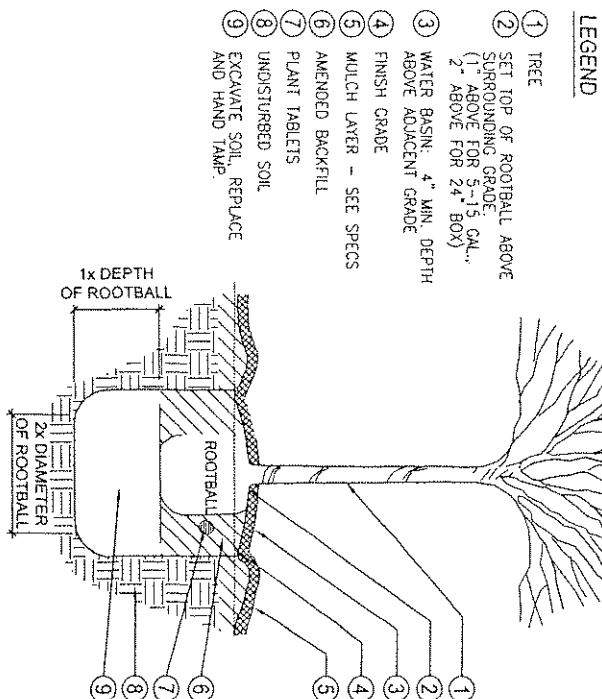
MD2901-01



TREE PLANTING ON SLOPE

Scale: no scale

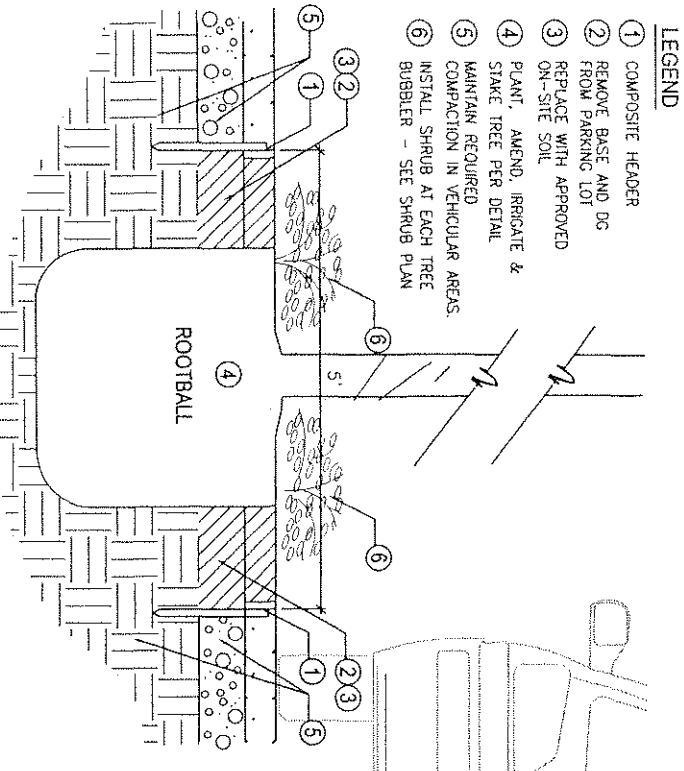
MD2901-04



TREE PLANTING

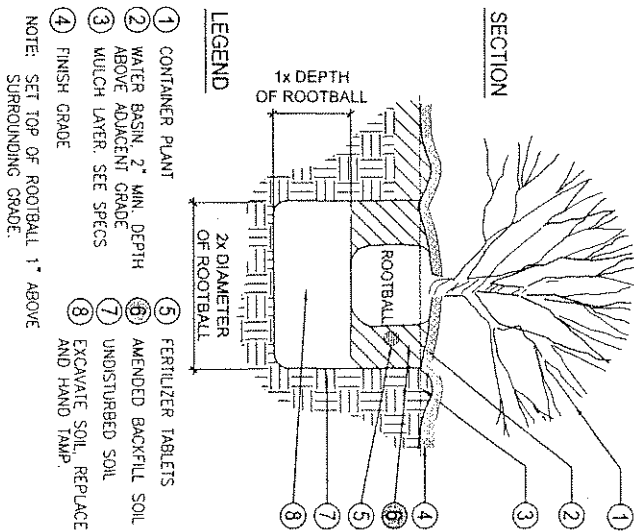
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MD2901-03



TREE PLANTING AT D.G. AT PARKING STALLS

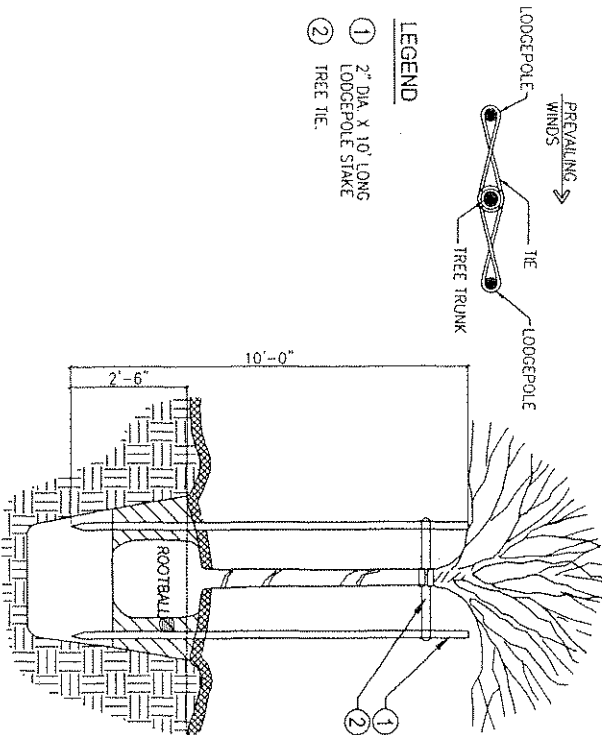
no scale



SHRUB PLANTING

Scale: no scale

MD2901-02



DOUBLE TREE STAKING

Scale: no scale

MD2902-01

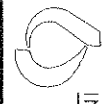
++NOTE: ALL PLANTING AREAS (EXCEPT HYDROSEEDDED PLANTING AREAS) TO RECEIVE A 1-1/2" DEEP LAYER OF 'RUBBERIFIC MULCH' - SEE SPECIFICATIONS

2500 mitchelson dr
suite 125
irvine ca 92612
949.250.0023
949.250.0043 f

Designed				
Drawn				
Checked				
Date				
REV. NO.	DATE	BY	APPROV.	DESCRIPTION

REVIEWED BY:	Date
Project Manager for E&A	

SCALE
AS SHOWN
See Scale and Notes for details on symbols used in this drawing. Do not use symbols on this sheet. 0 = 1'.



INLAND EMPIRE UTILITIES AGENCY
A Municipal Water District
10000 E. Main Street, Suite 100
Fontana, California 92335
Telephone (909) 357-0241

LEUA HEADQUARTERS
PHASE 1 - PROJECT # EN 02038
PLANTING
DETAILS

SHEET NO.
49 OF 64
DWG. NO.
01139.02
DRAWING NO.
L-1006



REFERENCE NOTES

- 1 JOIN TO EXISTING CONDUIT INSTALLED BY T.G. CONSTRUCTION.
- 2 TWO (2) 1 1/4" C.O. (FOR VEHICLE CHARGER STATION) BY T.G. CONSTRUCTION.
- 3 FOUR (4) 4" C.O. (POWER) BY T.G. CONSTRUCTION.
- 4 1 1/4" C.O. (SITE DISTRIBUTION) BY T.G. CONSTRUCTION.
- 5 SIX (6) 2" C.O. (FOR PHOTOVOLTAIC) BY T.G. CONSTRUCTION.
- 6 3/4" C.O. (FOR SITE LIGHTING CONTROLS) BY T.G. CONSTRUCTION.
- 7 FOUR (4) 4" C.O. (TELEPHONE/DATA) BY T.G. CONSTRUCTION.
- 8 TWO (2) 4" C.O. (TELEPHONE) BY T.G. CONSTRUCTION.
- 9 2" C.O. (CENTRAL PLANT) BY T.G. CONSTRUCTION.
- 10 2"x3"x30" D. UNDERGROUND HANDHOLE (E-400) CONSTRUCTION.
- 11 WEATHERPROOF TYPE J-BOX FOR CONNECTION OF IRRIGATION CONTROLLER (FIELD VERIFY PRIOR TO ROUGH-IN).
- 12 STUB-OUT (1) 1 1/4" CONDUIT WITH PULL ROPE FOR FUTURE VEHICLE CHARGER. VERIFY STUB LOCATION PRIOR TO ROUGH-IN.
- 13 WEATHERPROOF J-BOX FOR CONNECTION OF ELECTRIC GATE. CONTRACTOR TO VERIFY FINAL CONNECTIONS WITH GATE SUPPLIER PRIOR TO BID.
- 14 WEATHERPROOF J-BOX FOR GATE CONTROLS INCLUDING CONNECTION OF CONTROL LOOPS. VERIFY SUPPLIER PRIOR TO BID.
- 15 PROVIDE (1) 3/4" CONDUIT FOR 120V. POWER AND (1) 1" CONDUIT FOR CONTROLS. VERIFY FINAL CONNECTIONS WITH ELECTRIC GATE SUPPLIER PRIOR TO BID. CONTRACTOR TO ALSO PROVIDE (1) 2" C.O. (SLEEVE) WITH PULL ROPE UNDER ASPHALT FOR FUTURE CAMERA AND LEAVE IN ACCESSIBLE PLANTER AREA ON EACH SIDE. VERIFY PRIOR TO ROUGH-IN.
- 16 REFER TO SINGLE LINE DIAGRAM ON SHEET E-300 FOR FEEDER SIZE.
- 17 APPROXIMATE LOCATION OF EQUIPMENT VAULT FOR CONNECTION OF WATER FEATURE EQUIPMENT AND PANEL "MCP". (VAULT AND EQUIPMENT PROVIDED AND INSTALLED BY WATER FEATURE CONTRACTOR) REFER TO STO PLANS.
- 18 ELECTRICAL CONTRACTOR TO VERIFY LOCATION OF EQUIPMENT VAULT AND TO TERMINATE CONDUIT AND WIRES AS DIRECTED BY WATER FEATURE CONTRACTOR. VERIFY ALL REQUIREMENTS PRIOR TO BID.
- 19 1" CONDUIT FROM PANEL "SLA-2,4,6" (4#6 CU. THWN & 1#8 CU. GND.) FOR CONNECTION OF WATER FEATURE PANEL "MCP" LOCATED IN EQUIPMENT VAULT (VERIFY FINAL REQUIREMENTS PRIOR TO BID).
- 20 WEATHERPROOF J-BOX FOR CONNECTION OF WATER FEATURE LIGHTS. REFER TO STO DRAWINGS FOR FEATURE TYPE AND CONNECTION REQUIREMENTS (VERIFY QUANTITY AND LOCATION PRIOR TO BID).

GENERAL NOTES:

1. ALL CONDUITS SHOWN ON THIS PLAN SHALL BE A MINIMUM OF 3/4" AND SHALL HAVE A MINIMUM OF #10 CU. WIRES UNLESS OTHERWISE NOTED.
2. ELECTRICAL CONTRACTOR TO VERIFY ALL EQUIPMENT LOCATIONS AND REQUIREMENTS FOR A COMPLETE SYSTEM PRIOR TO BID.
3. ELECTRICAL CONTRACTOR SHALL REVIEW ALL DISCIPLINES BID SET DRAWINGS DURING BID AND SHALL INCLUDE IN BASE BID ANY ELECTRICAL NOT SHOWN ON THE ELECTRICAL DRAWINGS.
4. CONTRACTOR TO CONFIRM ALL STUB LOCATIONS, INCLUDING DEPTHS WITH DEVELOPER FOR EACH SYSTEM SHOWN. ALL CONDUIT LEFT-IN PLACE FOR FUTURE SHALL BE INSTALLED WITH PULL CORD, AND LEFT IN A LOCATION WHICH MAY BE EASILY ATTACHED IN THE FUTURE. STUB LOCATIONS ARE TO BE STAKED IN FIELD. IDENTIFICATION OF EACH RUN SHALL BE MARKED AT EACH END OF RUN AND SHALL BE CLEARLY MARKED ON RECORD DRAWINGS.

SPECIAL NOTES:

1. CONTRACTOR SHALL STAKE LOCATIONS BASED ON IMA DIGITAL CAD FILE.
2. LANDSCAPE ARCHITECT TO APPROVE LIGHT LOCATIONS PRIOR TO CONSTRUCTION.

ALL CONDUCTORS SHALL BE
A MINIMUM OF #10 CU.

DALAN ENGINEERING, INC.

ELECTRICAL ENGINEERS

DALAN JOB NO.

6638 DABBY AVENUE
NORTHBRIDGE, CA 91325
(818) 772-2228

(714) 771-4271
(888) 884-1944
FAX (818) 772-2239

Designed _____

Drawn _____

Checked _____

Date _____

REV. NO.

DATE

BY

APPROV.

DESCRIPTION

REVIEWED BY: _____

Project Manager for IEMA _____

DATE _____

SCALE

AS SHOWN

See Scale attached drawing. If not one inch on this sheet, adjust scales accordingly.

INLAND EMPIRE UTILITIES AGENCY

A Municipal Water District

2000 Century Lane, Suite 200
San Juan Capistrano, CA 92675
Telephone: (949) 257-0241

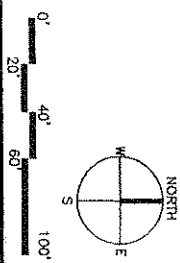
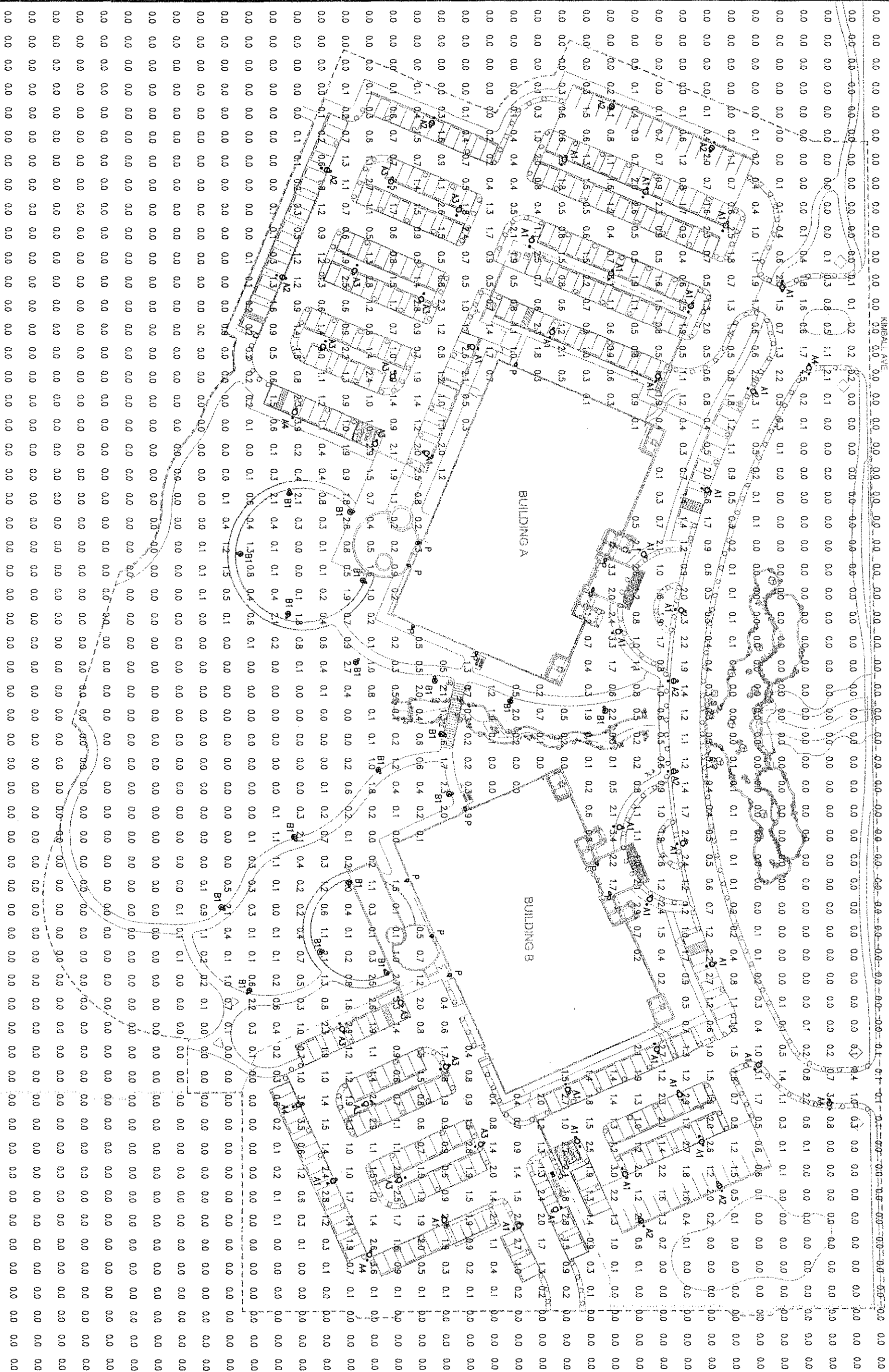
IE.U.A. HEADQUARTERS
PHASE 1

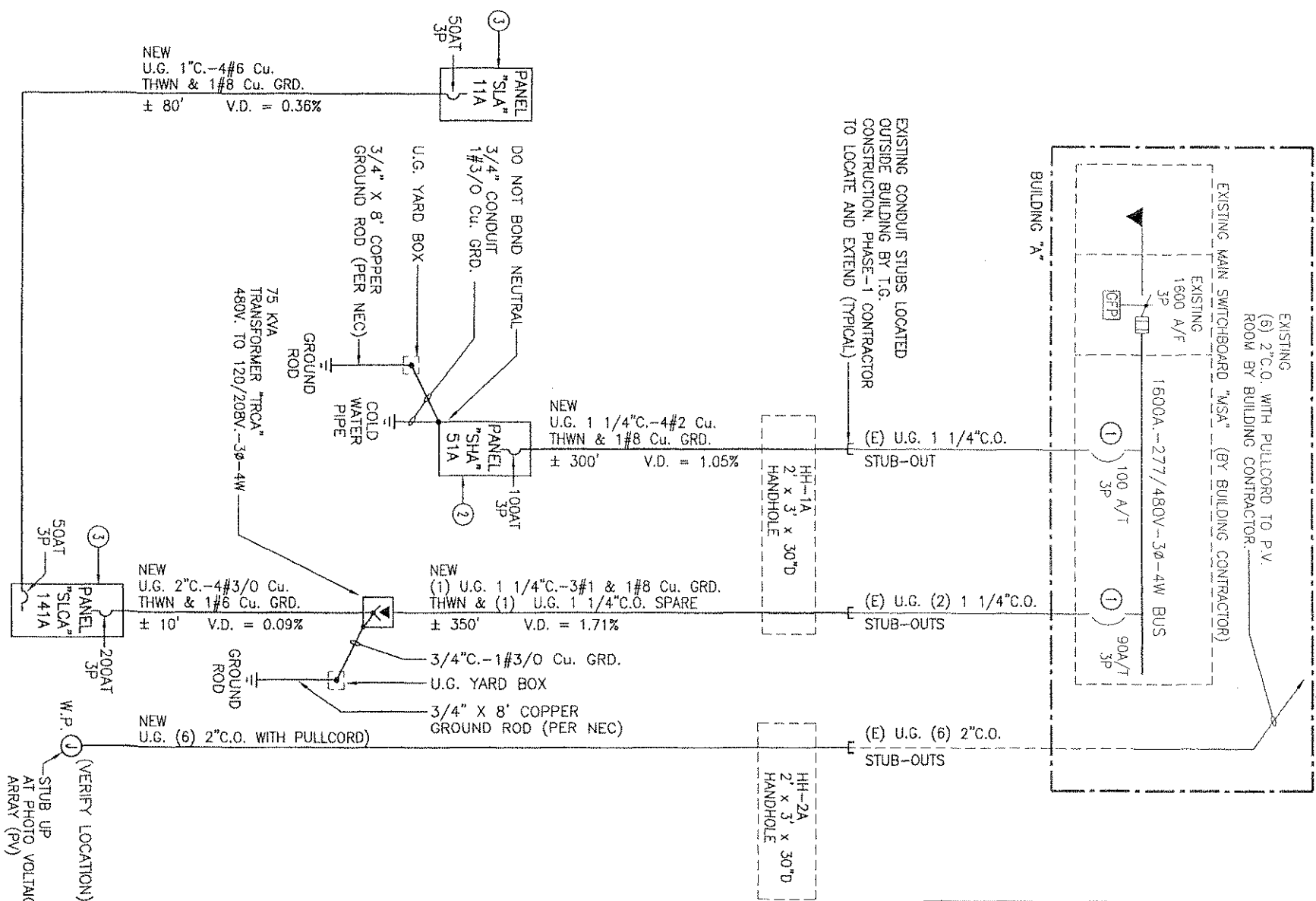
SITE ELECTRICAL PLAN

SHEET NO. 50 OF 61

Imo JOB NO. 01139.02

DRAWING NO. E-100

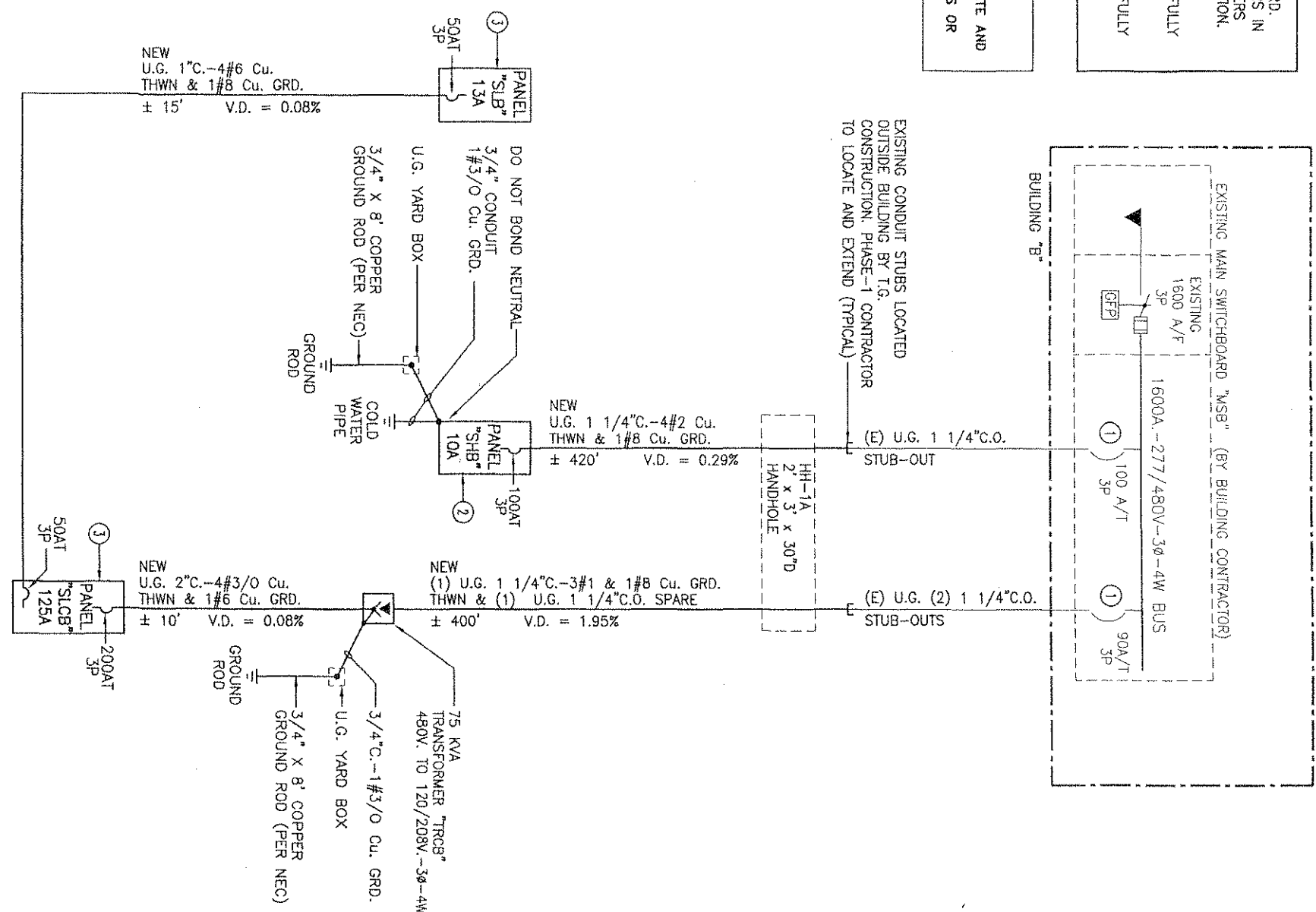




1. EXTEND NEW CABLE TO BUILDING SWITCHBOARD. TERMINATE SITE FEEDER CABLES ON BREAKERS IN MAIN SWITCHBOARD "MSA" AND "MSB" BREAKERS PROVIDED AND INSTALLED BY T.G. CONSTRUCTION. CABLES BY PHASE-1 CONTRACTOR.
2. ALL CIRCUIT BREAKERS IN PANEL SHALL BE FULLY RATED FOR MINIMUM OF 14,000 AIC.
3. ALL CIRCUIT BREAKERS IN PANEL SHALL BE FULLY RATED FOR MINIMUM OF 10,000 AIC.

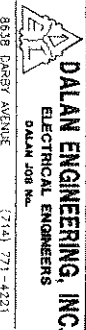
NOTES TO CONTRACTOR:

1. THE FEEDER LENGTHS SHOWN ARE APPROXIMATE AND ARE FOR VOLTAGE DROP CALCULATIONS ONLY. THEY SHALL NOT BE USED FOR BID PURPOSES OR MATERIAL TAKE-OFF.



PARTIAL SINGLE LINE DIAGRAM "MSA"

PARTIAL SINGLE LINE DIAGRAM "MSB"



DALAN ENGINEERING, INC.
ELECTRICAL ENGINEERS
DALAN JOB NO.
8638 DAREY AVENUE
NORTHBRIDGE, CA 91325
(714) 771-4221
(909) 684-4944
(618) 772-3228 FAX (618) 772-3239

Designed	
Drawn	
Checked	
Date	
REV NO	DATE
BY	APPROV
DESCRIPTION	

REVIEWED BY:	
Project Manager for IEUA	
Date	

SCALE
AS SHOWN
BUT SCALE SHOWN BELOW IS ONE
HIGHER ON OUTPUT DRAWING. IF
NECESSARY, SCALE SHALL BE
ADJUSTED ACCORDINGLY.
0" = 1"



INLAND EMPIRE UTILITIES AGENCY
A Municipal Water District
LOCATION
3400 Gateway Avenue, Building A
Fountain Valley, California 92705
Telephone (949) 357-2424
MAILING ADDRESS
Post Office Box 697
Rancho Dominguez, California 91750

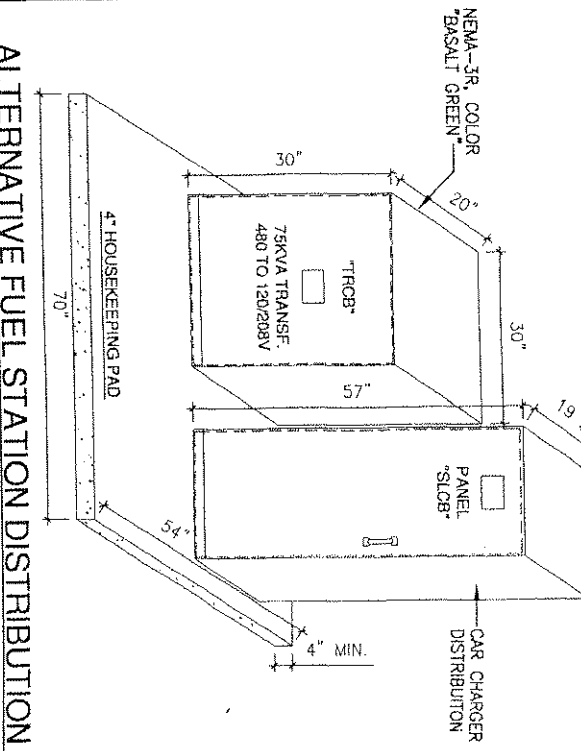
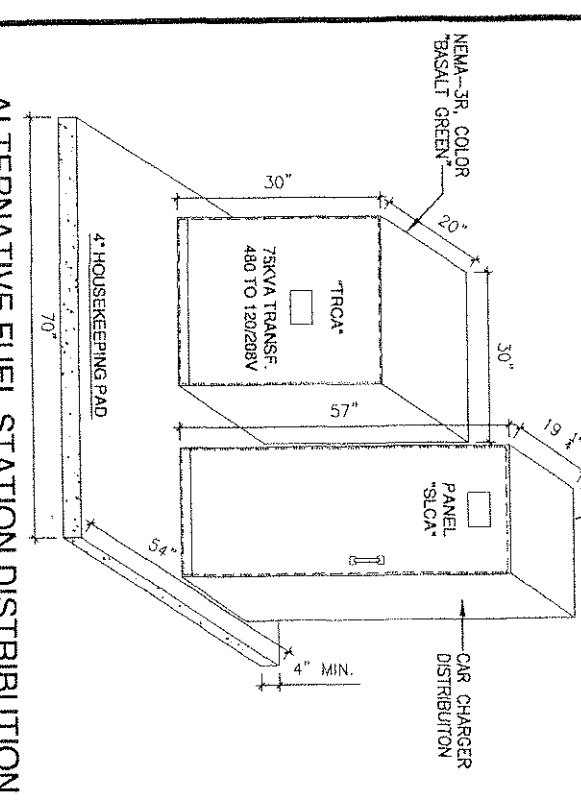
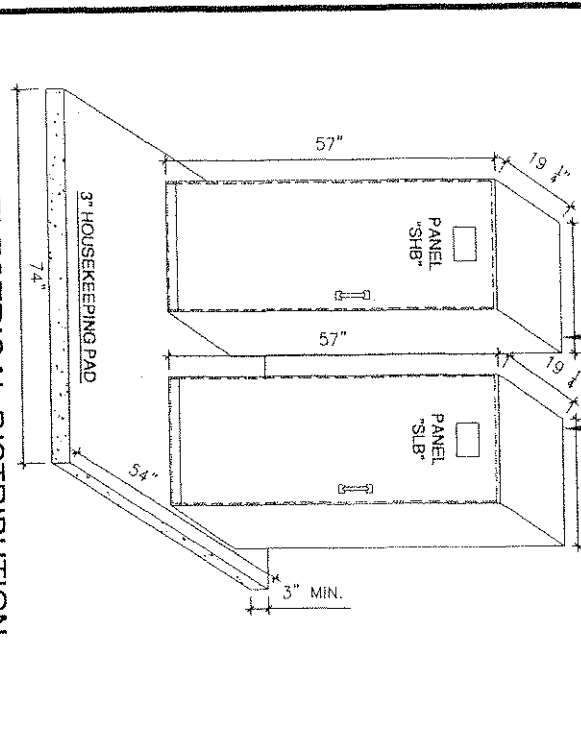
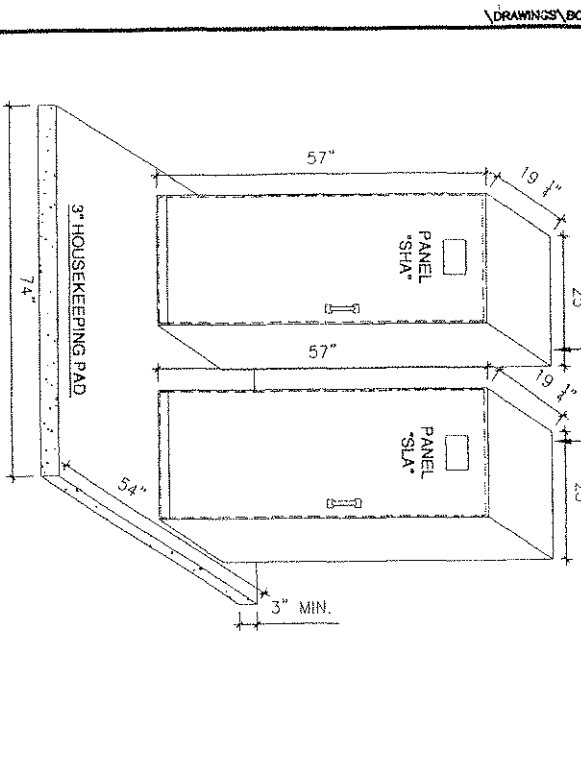
IEUA HEADQUARTERS
PHASE 1
SINGLE LINE DIAGRAM

MYERS
#MEUG-IU-M100-277/480V-3Ø-4W
NEMA-3R WITH BASE ASSEMBLY
(COLOR TO BE "BASALT GREEN")
WITH TIMESWITCH AND CONTACTORS

MYERS
#MEUG-IU-M100-120/208V-3Ø-4W
NEMA-3R WITH BASE ASSEMBLY
(COLOR TO BE "BASALT GREEN")
WITH TIMESWITCH AND CONTACTORS

MYERS
#MEUG-IU-M200-120/208V-3Ø-4W
NEMA-3R WITH BASE ASSEMBLY
(COLOR TO BE "BASALT GREEN")

MYERS
#MEUG-IU-M200-120/208V-3Ø-4W
NEMA-3R WITH BASE ASSEMBLY
(COLOR TO BE "BASALT GREEN")

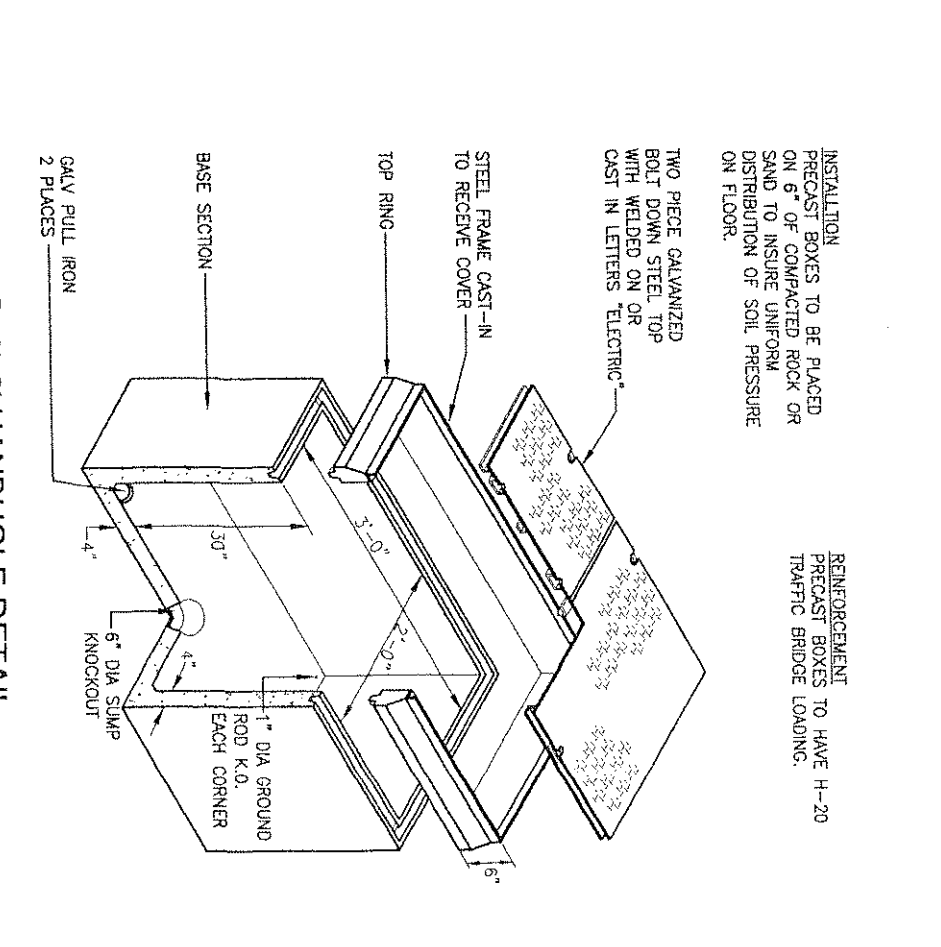
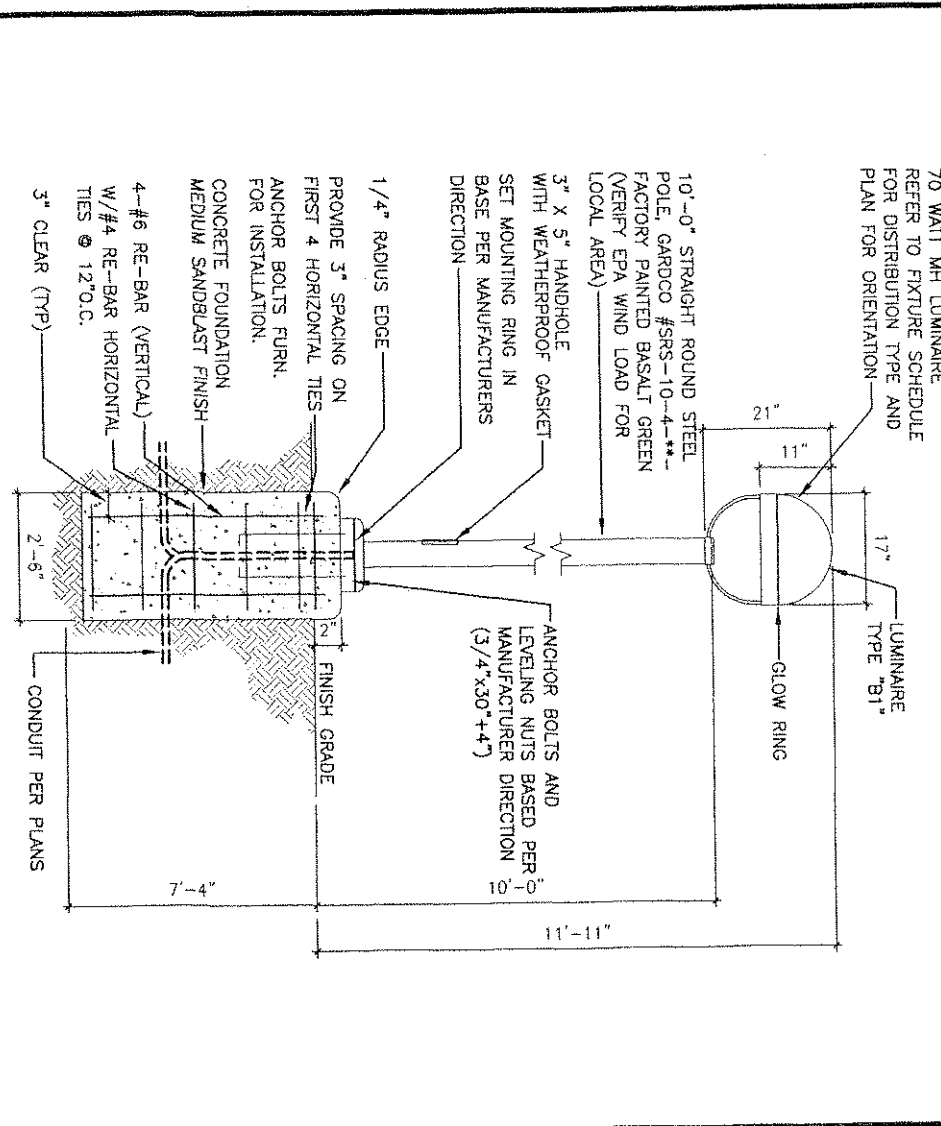
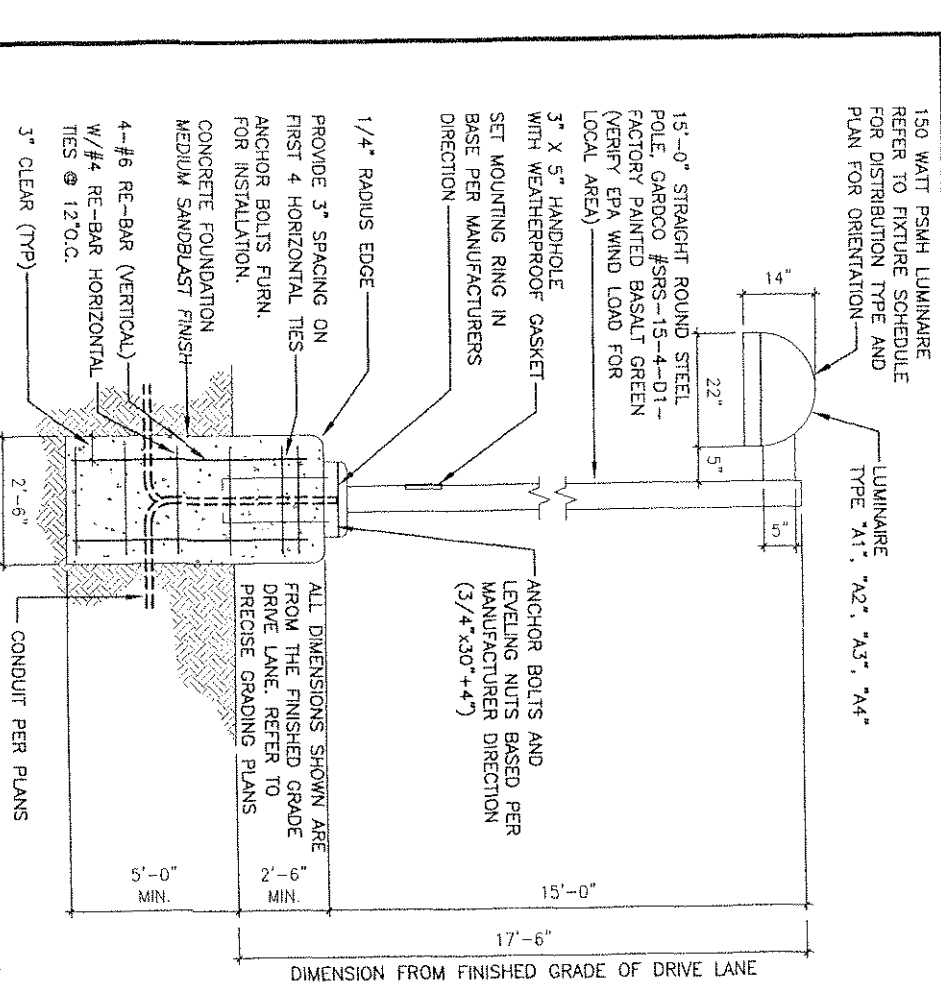


A
SITE ELECTRICAL DISTRIBUTION
EQUIPMENT ELEVATION "SHA" & "SLA"
SCALE : NOT TO SCALE

B
SITE ELECTRICAL DISTRIBUTION
EQUIPMENT ELEVATION "SHB" & "SLB"
SCALE : NOT TO SCALE

C
ALTERNATIVE FUEL STATION DISTRIBUTION
EQUIPMENT ELEVATION "SLCA"
SCALE : NOT TO SCALE

D
ALTERNATIVE FUEL STATION DISTRIBUTION
EQUIPMENT ELEVATION "SLCB"
SCALE : NOT TO SCALE



E
ARM MOUNT LUMINAIRE AND POLE ASSEMBLY DETAIL
SCALE : NOT TO SCALE

F
POST TOP MOUNT LUMINAIRE AND POLE ASSEMBLY DETAIL
SCALE : NOT TO SCALE

G
U.G. 2'x3' HANDHOLE DETAIL
SCALE : NOT TO SCALE

DALÁN ENGINEERING, INC.
ELECTRICAL ENGINEERS
DALÁN JOE JR.
8658 DABRY AVENUE
NORTHridge, CA 91335
(818) 772-2228
FAX (818) 772-2239

Designed _____
Drawn _____
Checked _____
Date _____

REV NO. DATE BY APPROV

REVIEWED BY: _____
Project Manager for IEUA _____
Date _____

AS SHOWN
See Scale shown below is one
based on original drawing. If
NOT one inch on this sheet,
adjust scales accordingly.

INLAND EMPIRE UTILITIES AGENCY
A Municipal Water District
16270 N. Daley Avenue, Building 7
P.O. Box 9000
Fontana, California 92335
Telephone (909) 357-0241

1.E.U.A. HEADQUARTERS
PHASE 1
ELECTRICAL DETAILS

SCALE: 1/8" = 1'-0"
S4 05 61
REV 01:10
01:18:02
DPM/ML, BG
E-400

PANEL - SLA -									
Ckt No	CHARGE P	CHARGE WATT	OUTLETS WATT/REMARK	DESCRIPTION	L1	L2	L3	L4	L5
1	1	20		IRRIGATION CONTROLLER	360				
2	1	20	5 100	WATER FEEDURE LIGHTS	500			125	
3	1	20		IRRIGATION CONTROLLER	360				
4	1	20	5 100	WATER FEEDURE LIGHTS	500			125	
5	1	20		WATER FEEDURE LIGHTS	500			125	
6	1	20	5 100	WATER FEEDURE LIGHTS	500			125	
7	1	20		ELECTRIC GATE	500				
8	1	20		SPRINK	0				
9	1	20		ELECTRIC GATE	500				
10	1	20		SPRINK	0				
11	1	20		SPRINK	0				
12	1	20		TRIP SWITCH	350				
Total Watts					1360	1360	1048	375	
Total Watts with 25% for LCC					3760				
Amps 120/208V 3 phase 4wire					4135				
					11				

L--PROVIDE LOCK-ON DEVICE ON CIRCUIT BREAKER
A,B--REFER TO SITE LIGHTING CONTROL DIAGRAM, DETAIL "B" ON THIS SHEET

DALAN ENGINEERING, INC.
ELECTRICAL ENGINEERS
DALAN JOB NO.

DARBY AVENUE	(714) 771-4221
HARRIDGE, CA. 91325	(805) 684-4944
772-2220	FAX (818) 772-2239

[illegible]

L -- PROVIDE LOCK-ON DEVICE ON CIRCUIT BREAKER
A,B -- REFER TO SITE LIGHTING CONTROL DIAGRAM, DETAIL "B" ON THIS SHEET

[illegible]

2-CHANNEL DIGITAL ASTRONOMIC
TIMESWITCH (277V)

HOT
±
CKT. 7

A
B

(A)

6-POLE 20 AMP
LIGHTING RELAY "A"
WITH 277 VOLT COIL

SH+12
SH+16
SH+20
SH+24
SH-12
SH-16
SH-20
SH-24

ENTRY SIGN
ROADWAY LIGHTS
PARKING LIGHTS
PEDESTRIAN LIGHTS
PARKING LIGHTS

(B)

6-POLE 20 AMP
LIGHTING RELAY "B"
WITH 277 VOLT COIL

SH+14
SH+18
SH+22
SH-14
SH-18
SH-22

ROADWAY LIGHTS
PARKING LIGHTS
PARKING LIGHTS

[illegible]

FIXTURE TYPE "C" MOUNTING DETAIL

SCALE

AS SHOWN

Bar Scale shown below is one inch equals one foot. Do not rely on this scale, adjust scales accordingly.

0'  1'



INLAND EMPIRE UTILITIES AGENCY

A Municipal Water District

LOCATION
 9400 Denny Avenue, Building A
 Redwood, California 94068
 Telephone: (909) 357-0241

MAILING ADDRESS
 Post Office Box 697
 Redwood, California 94068

U.S.O. HEADQUARTERS

PHASE 1

**PANEL SCHEDULES, AND
FIXTURE SCHEDULE.**

DRAWING NO.
E-500

55 OF 6

1000 200 100

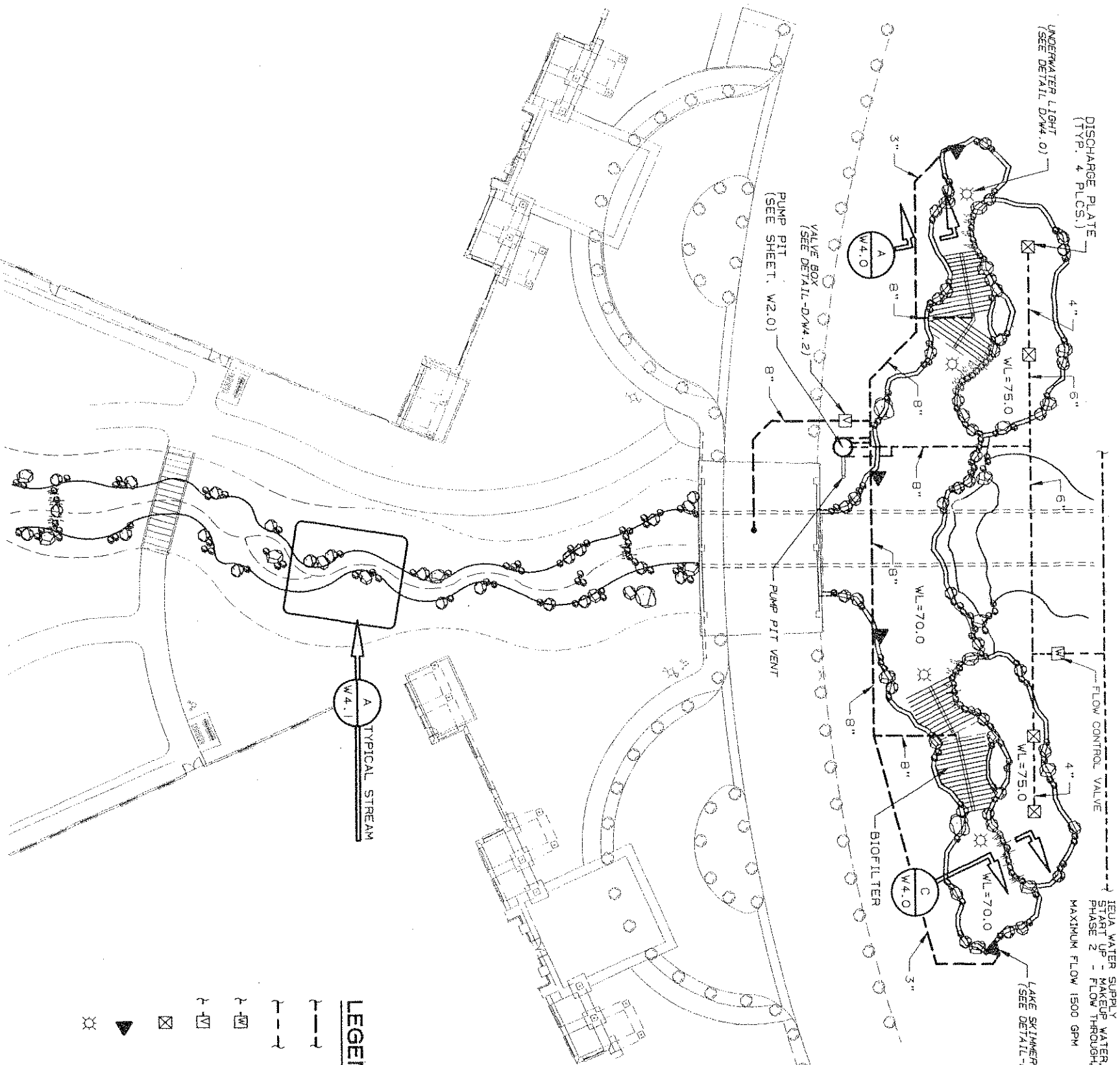
01139.02

GENERAL NOTES

1. Written dimensions shall prevail over scale dimensions.
2. All work shall be done in the conformance with applicable codes and regulations.
3. The Contractor shall review these plans prior to construction and verify grades, dimensions and elevations shown. The Contractor shall notify the Owner of any discrepancies between plans and actual conditions prior to commencing work.
4. The Contractor shall verify the locations of existing underground utilities before commencing excavation work.
5. PIPING:
 - a) Pipe layout shown is representative of the desired pipe routing; with allowance for minor conditions. Realignments as required by field conditions. Pipe runs shall be installed with the least number of fittings.
 - b) Piping shall be installed without air entrapping high points or reverse slopes.
 - c) Pipe and trenches shall be excavated to the full width and depth required for proper installation and in accordance with the requirements of pipe manufacturer's and applicable codes.
 - d) Parallel piping runs to be installed in common trench, whenever possible.
 - e) The pipe shall be uniformly and continuously supported over its entire length on firm stable material.
 - f) Provide minimum 24 inch cover for all piping, installation using suitable backfill material, compacted to 90% min. relative density. See specifications.
 - g) Provide supports and hangers for all exposed piping in accordance with the 1988 Uniform Plumbing Code or applicable local code.
 - h) All exposed PVC pipe and fittings shall be Sch. 80.
6. These plans are NOT to be used for staking the water feature. Refer to Civil Plans to establish water feature location and elevations.
7. O.W.S. refers to the water level with all the pumps full flow. S.W.S. refers to water level with all the pumps shut off with no water circulation in the water feature. N.W.S. refers to normal water surface.
8. All water feature shall reinforcing mols and metallic parts of the structures defined herein to be bonded and grounded per NEC code requirements.

SHEET INDEX

- WATER FEATURE PLAN..... W1.0
EQUIPMENT PUMP PIT DETAILS..... W2.0
EQUIPMENT DETAILS..... W3.0 - W3.1
WATER FEATURE DETAILS..... W4.0 - W4.4



LEGEND

- 0209F005
- SUCTION PIPING
 - DISCHARGE PIPING
 - WATER SUPPLY
 - VALVE BOX
 - DISCHARGE PLATE
 - SKIMMER
 - LIGHT

WATER FEATURE PLAN



STO DESIGN GROUP, INC.
3300 Redmill Ave., Suite 305 • Santa Ana, CA 92706
Phone (949) 470-5777 • FAX (949) 470-5048

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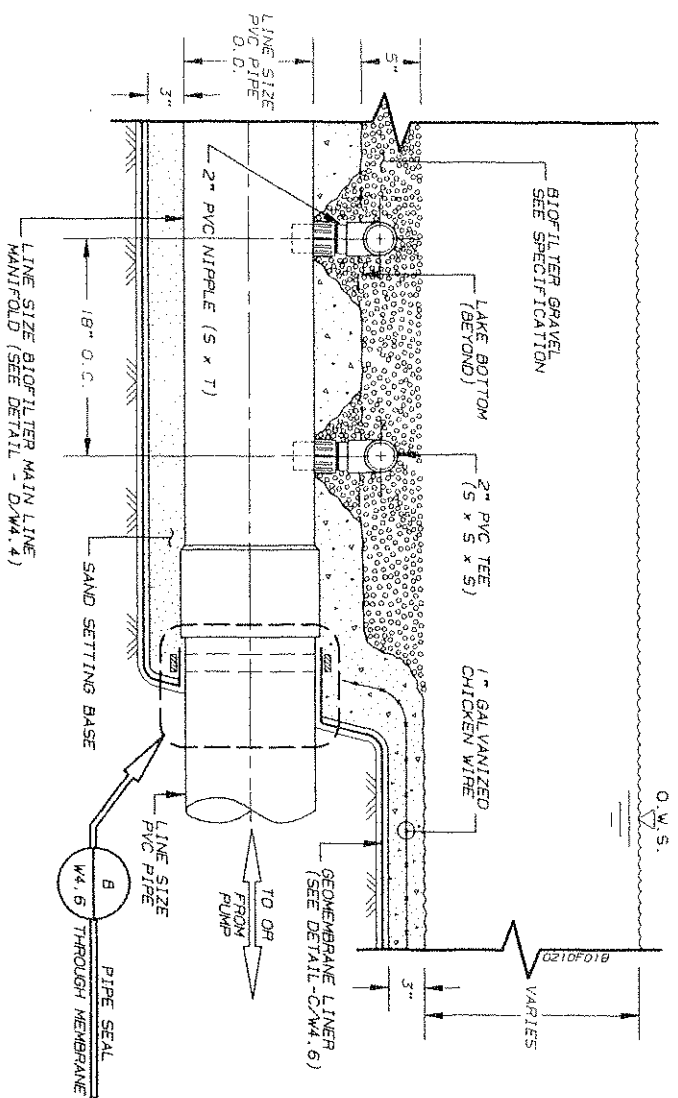
REVIEWED BY:	DATE:
Project Manager for IEUA	

SCALE
AS SHOWN
Bar Scale shown below is for use only on original drawings. All other scales shall be adjusted accordingly.

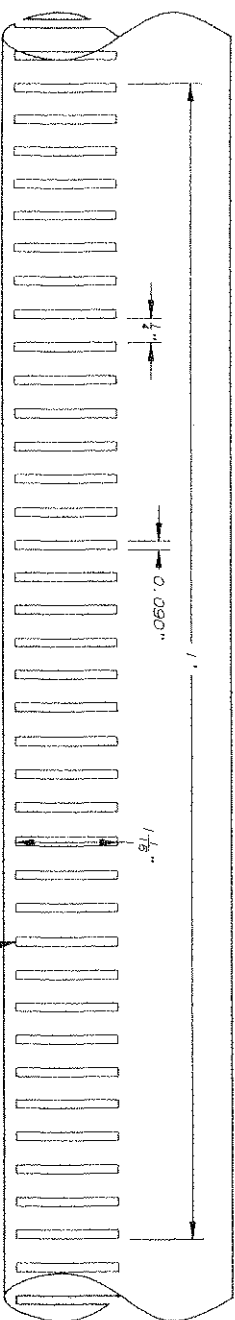
INLAND EMPIRE UTILITIES AGENCY
A Municipal Water District
LOCATION: 3200 Cherry Avenue, Building 2, Fontana, California 92335
Telephone: (951) 857-5251
MAILING ADDRESS: Post Office Box 697, Rancho Cucamonga, California 91720

IEUA HEADQUARTERS
PHASE I-PROJECT # EN02036
WATER FEATURE PLAN

SHEET NO.
56 OF 64
DATE: 01/31/02
DRAWING NO.
W1.0
EN0206H-02

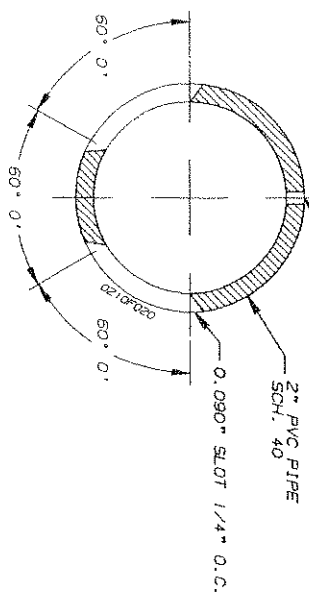


A BIOFILTER MAINLINE THROUGH LINER SECTION
SCALE: 1-1/2" = 1'-0"

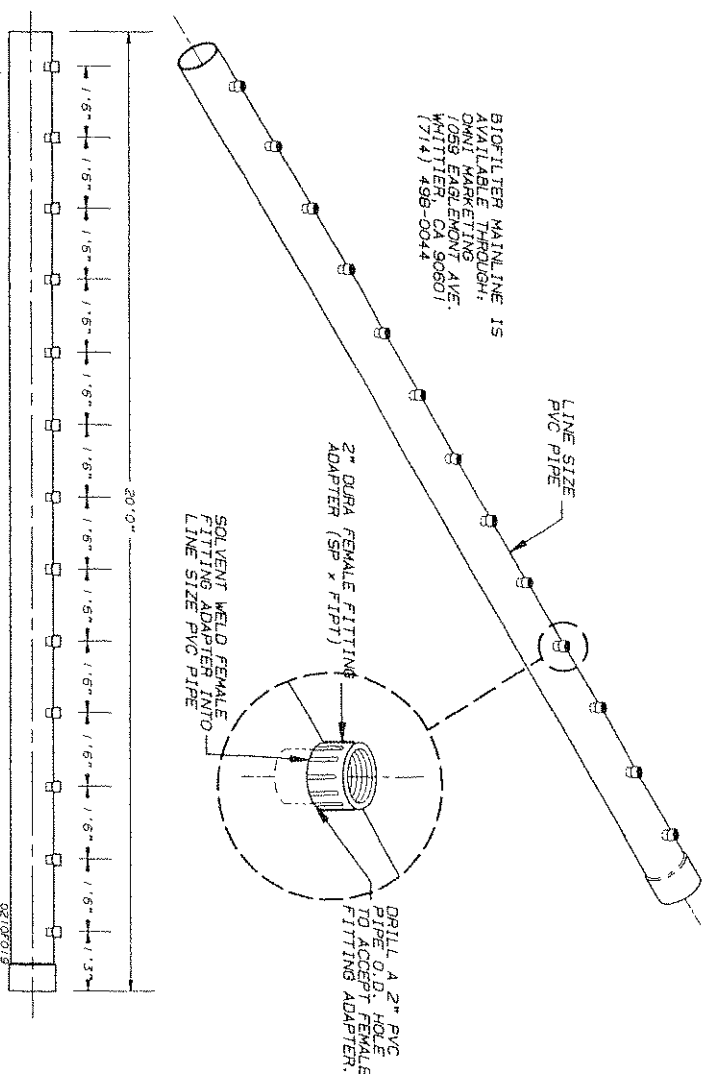


DIVERSIFIED WELL PRODUCTS, INC.
2176 PACIFIC STREET
ORANGE, CA 92665
(714) 637-2383 FAX: (714) 637-2431

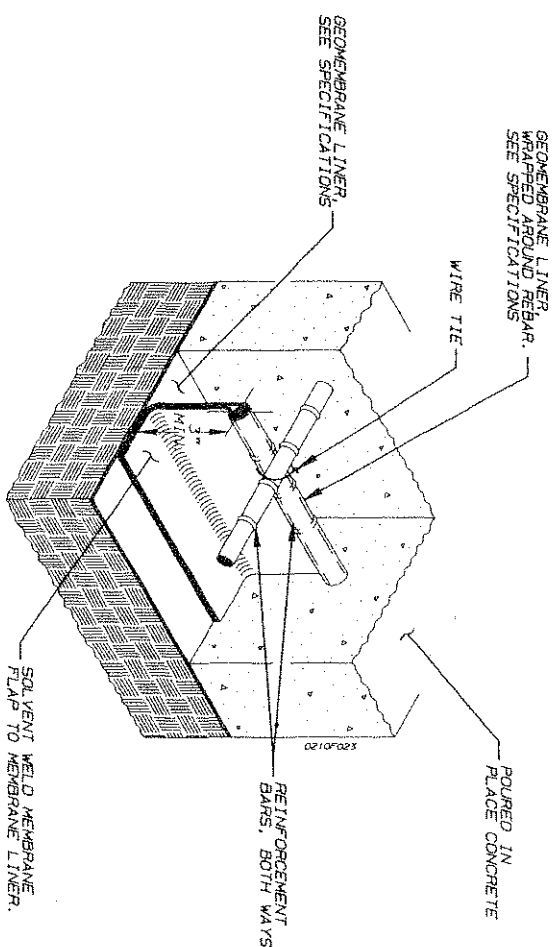
NOTE: EACH FOOT OF
SLOTTED PIPE IS 6.64
SQ. IN. OF OPEN AREA



C BIOFILTER SLOTTED PIPE DETAIL
SCALE: FULL



B BIOFILTER MAINLINE DETAIL
SCALE: 1/2" = 1'-0"



D WATERFALL WATER STOP SECTION
SCALE: NTS

STO DESIGN GROUP, INC.
3500 Redhill Ave., Suite 205 • Santa Ana, CA 92705
Phone (949) 478-4777 • FAX (949) 478-6048

STO Design Group, Inc. is a subsidiary of
STO Design Group, Inc. and is not
responsible for the design of the
project. The design is the responsibility
of the client. The client is responsible
for the design of the project and the
design of the project is the responsibility
of the client.

Designed	
Drawn	
Checked	
Rev. No.	001
Date	
By	
App'd	
Description	

REVIEWED BY:
Project Manager for IEUA

AS SHOWN
Bar Scale shown below is one
inch to eight feet. If the
drawing is not to scale, the
actual scale is indicated.

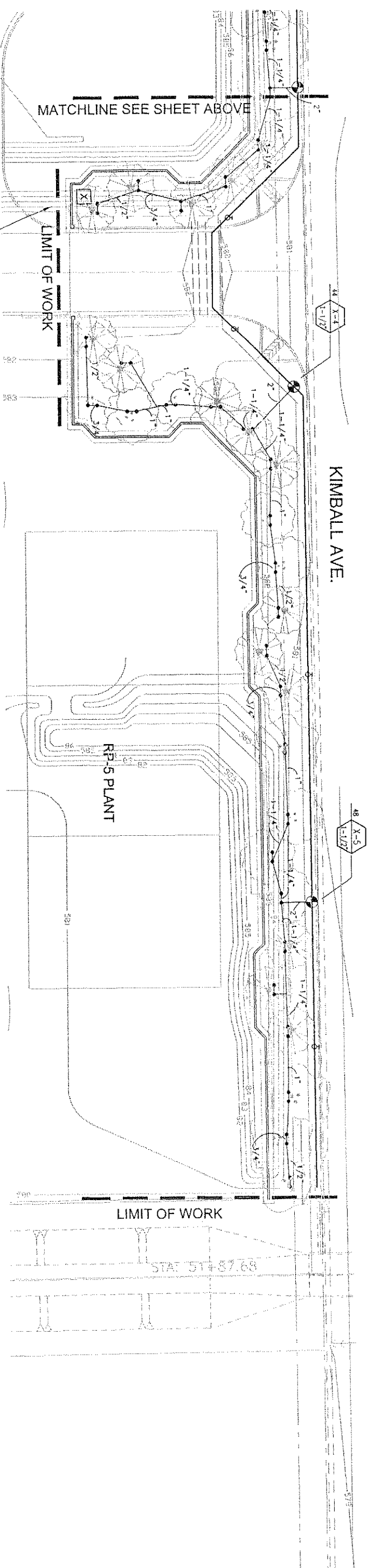
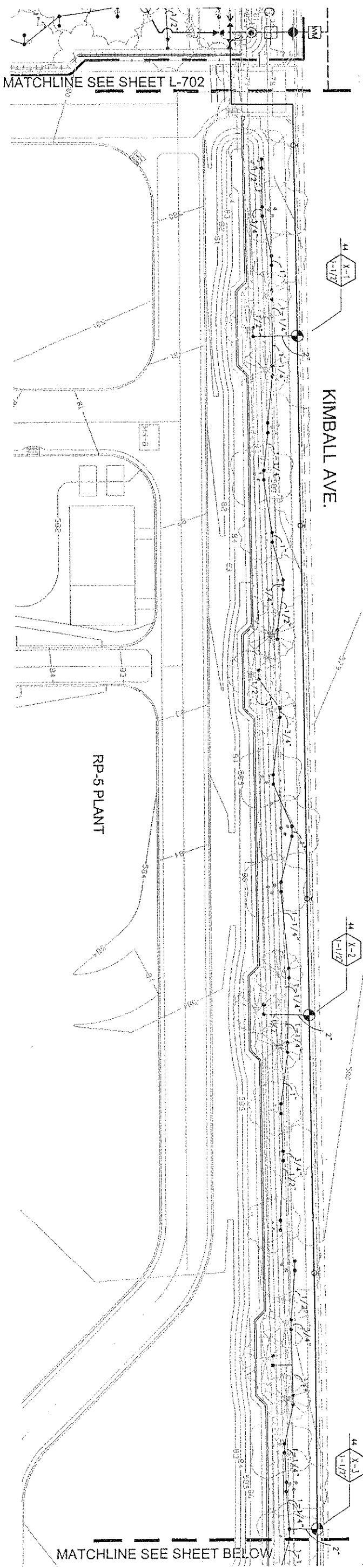
SCALE
AS SHOWN

INLAND EMPIRE UTILITIES AGENCY
A Municipal Water District
LOCATION: 9000 Daring Avenue, Building 1
Fountain, California 92335
Telephone: (909) 357-0241

MAILING ADDRESS:
P.O. Box 697
Riverside, California 92501

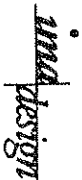
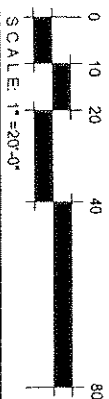
IEUA HEADQUARTERS
PHASE I-PROJECT # EN02038
WATER FEATURE
DETAILS

SHEET NO.
64 OF 64
JOB NO.
01-139-02
DRAWING NO.
W4.4



CONTROLLER "X" - 24 STATION
COORDINATE (117 VAC) POWER SOURCE
TO RP-5 POWER WITH DAVE WALL / IE.U.A.

NOTES: - SEE SHEET L-101 FOR KEY MAP
- SEE SHEET L-700 FOR
IRRIGATION LEGEND



2500 michelson dr
suite 120
irvine, ca 92614
phone: 949.250.0022
fax: 949.250.0043 f

Designed _____
Drawn _____
Checked _____
Date _____

REV. NO. DATE BY APPROV.

DESCRIPTION

REVIEWED BY:

Project Manager for IEUA _____ Date _____

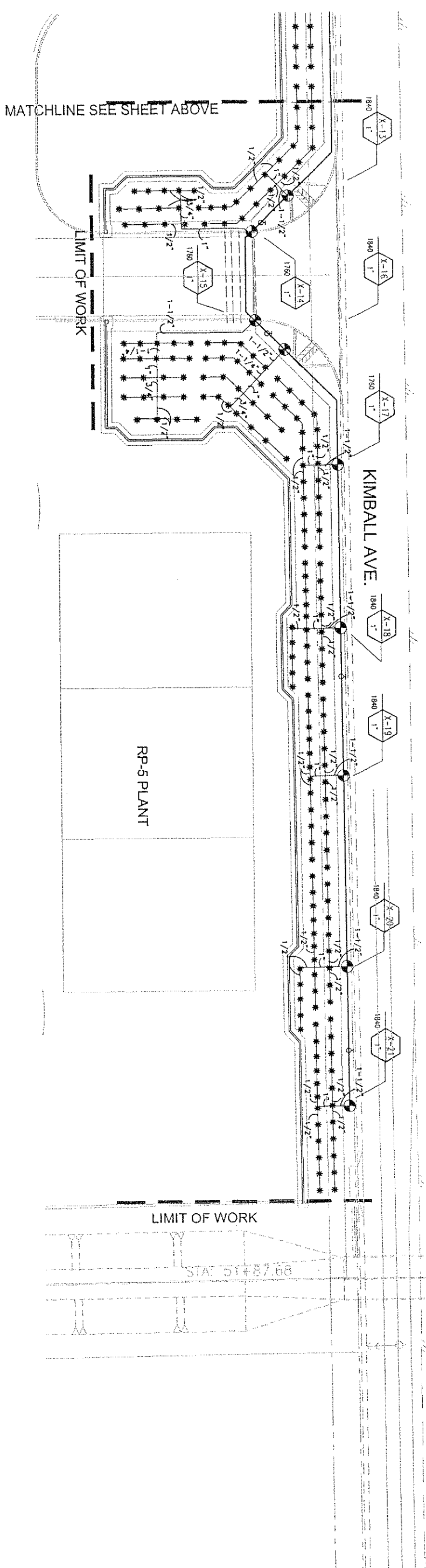
SCALE
AS SHOWN
See Scale shown below in one
inch on original drawing. If
not shown, scales according
to _____



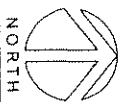
INLAND EMPIRE UTILITIES AGENCY
A Municipal Water District
LOCATION: 2400 Cherry Avenue, Building 7
Farmingdale, California 91333
Telephone: (909) 357-0241
Water District: 2400 Cherry Avenue, Building 7
Farmingdale, California 91333
Telephone: (909) 357-0241

IEUA HEADQUARTERS
PHASE 1 - PROJECT # EN 02038
IRRIGATION
PLAN - TREES (RP-5)

Sheet No.
01135.02
Drawing No.
RP5-1



NOTES: - SEE SHEET L-101 FOR KEY MAP
- SEE SHEET L-700 FOR
IRRIGATION LEGEND



0 10 20 40 60

SCALE: 1"=20'-0"

12/19/02 - BID SET

ind design

2500 michelson dr
suite 125
irvine ca 92612
949.250.0023
949.250.0043 f

Designed	Drawn	Checked	Date
_____	_____	_____	_____

[illegible]

REVIEWED BY: _____
Doi: _____
Project Manager for KUA _____

SCALE
AS SHOWN

Bar Scale shown below is one
inch on original drawing. It
NOT one inch on this sheet.
adjust scales accordingly.

0"  1"



LOCATION
3460 Cherry Avenue, Building A
Palo Alto, California 94305
Telephone (908) 337-0241

USE, INC. A0082855
Post Office Box 639
Mountain View, California 91705

IRRIGATION
PLAN - SHRUBS (RP-5)
PHASE 1 - PROJECT # EN 02038
I.E.U.A. HEADQUARTERS

SHEET NO.
REV. JOB NO.
01139.02
DRAWING NO.
RP5-2

KIMBALL AVE.

RP-5 PLANT

MATCHLINE SEE SHEET ABOVE

LIMIT OF WORK

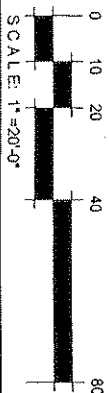
RD-5 PLANT

LIMIT OF WORK

STA: 51+87.68

NOTE: BASED ON RP-5 FILES RECEIVED FEB. 2002

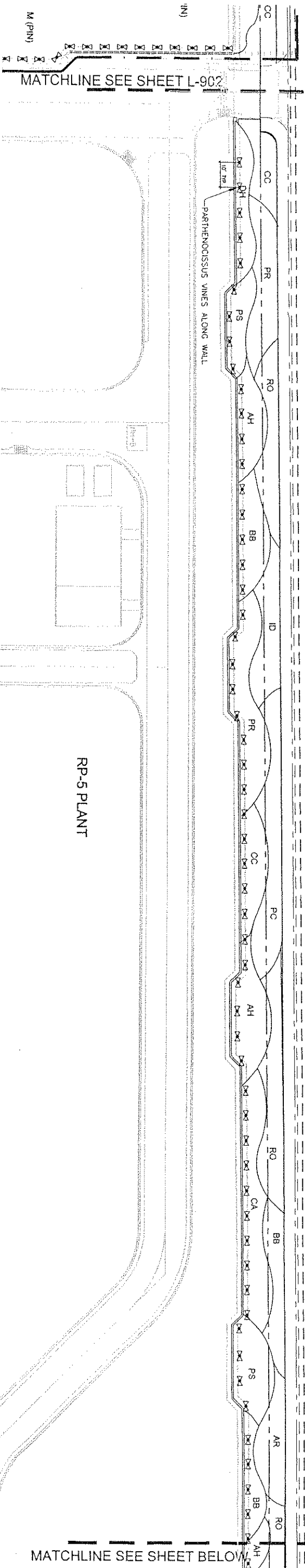
NOTES: - SEE SHEET L-101 FOR KEY MAP
- SEE SHEET L-800 FOR
SHRUB/TREE LEGENDS



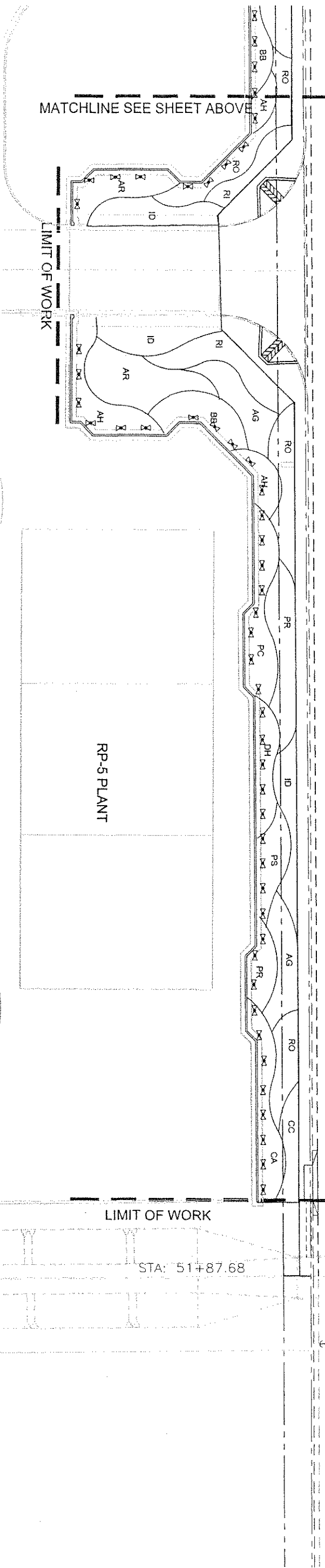
12/19/02 - BID SET

[illegible]

KIMBALL AVE.



KIMBALL AVE.



NOTE: BASED ON RP-5 FILES RECEIVED FEB. 2002

NOTES: - SEE SHEET L-101 FOR KEY MAP
- SEE SHEET L-800 FOR SHRUB/TREE LEGENDS



ind design 2500 michelson dr suite 125 livermore, ca 94551 949.250.0023 949.250.0043 f		Designed _____ Drawn _____ Checked _____ Date _____	REV NO	DATE	BY	APPROV	DESCRIPTION	REVIEWED BY: _____ Date _____ Project Manager for EIA	SCALE AS SHOWN One inch equals one foot on the ground. Not to scale on this sheet. 0' 1'	 INLAND EMPIRE UTILITIES AGENCY 3400 Cherry Avenue, Suite 100 Riverside, CA 92504 Phone: (951) 507-1241 Fax: (951) 507-1242	IEUA HEADQUARTERS PHASE 1 - PROJECT # EN 02038 SHRUB PLANTING PLAN - RP-5	SHEET NO. RPS-4
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