

IRRIGATION LEGEND

SYMBOL	MANUFACTURER	MODEL	DESCRIPTION	P.S.I.	R.A.D.	G.P.M.	DETAIL
	RAINBIRD	1812-SAM-PRS-8 VAN	12" POPUP VARIABLE ARC SPRAY	30	8"	0.72, 1.19	F
	RAINBIRD	1812-SAM-PRS-10 VAN	12" POPUP VARIABLE ARC SPRAY	30	10"	0.75, 1.45	F
NOTE: USE RAINBIRD 1806 BODIES IN LAWN AREAS							
SYMBOL	MANUFACTURER	MODEL	DESCRIPTION				DETAIL
POC	-		POINT OF CONNECTION - SHALL BE LOCATED AT CLOSEST VALVE MANIFOLD				-
	RAINBIRD	EFB-CP-PRS-D	REMOTE CONTROL VALVE - SIZE AS NOTED ON PLANS INSTALL IN CITY STANDARD VALVE BOX. LOCATE AT NEAREST EXISTING VALVE MANIFOLD				C
	RAINBIRD	33DURC	3/4" QUICK COUPLER WITH LOCKING COVER WITH KEY 2049 INSTALL IN CITY STANDARD VALVE BOX				D
	EXISTING	-	EXISTING CONTROLLER - CONNECT NEW VALVE TO EXISTING CONTROLLER (VERIFY LOCATION AND COORDINATE WITH CITY REPRESENTATIVE AND PARK MAINTENANCE STAFF AS REQUIRED)				-
	RAINMASTER	RAIN SENSOR	IF EXISTING CONTROLLER DOES NOT HAVE A RAIN SENSOR MOUNT OR ON POLE WITH CLEAR SKY INSTALL PER MFG. RECOMMENDATIONS COORDINATE WITH CITY REPRESENTATIVE AND PARK MAINT. STAFF				-
---	ANY APPROVED		PRESSURE PVC MAIN LINE - SCH. 40 FOR 1-1/2" AND UNDER, CL. 315 FOR 2" AND LARGER - SEE PLAN FOR SIZE				E
---	ANY APPROVED		NON-PRESSURE PVC LATERAL LINE - SEE PLAN FOR SIZE				E

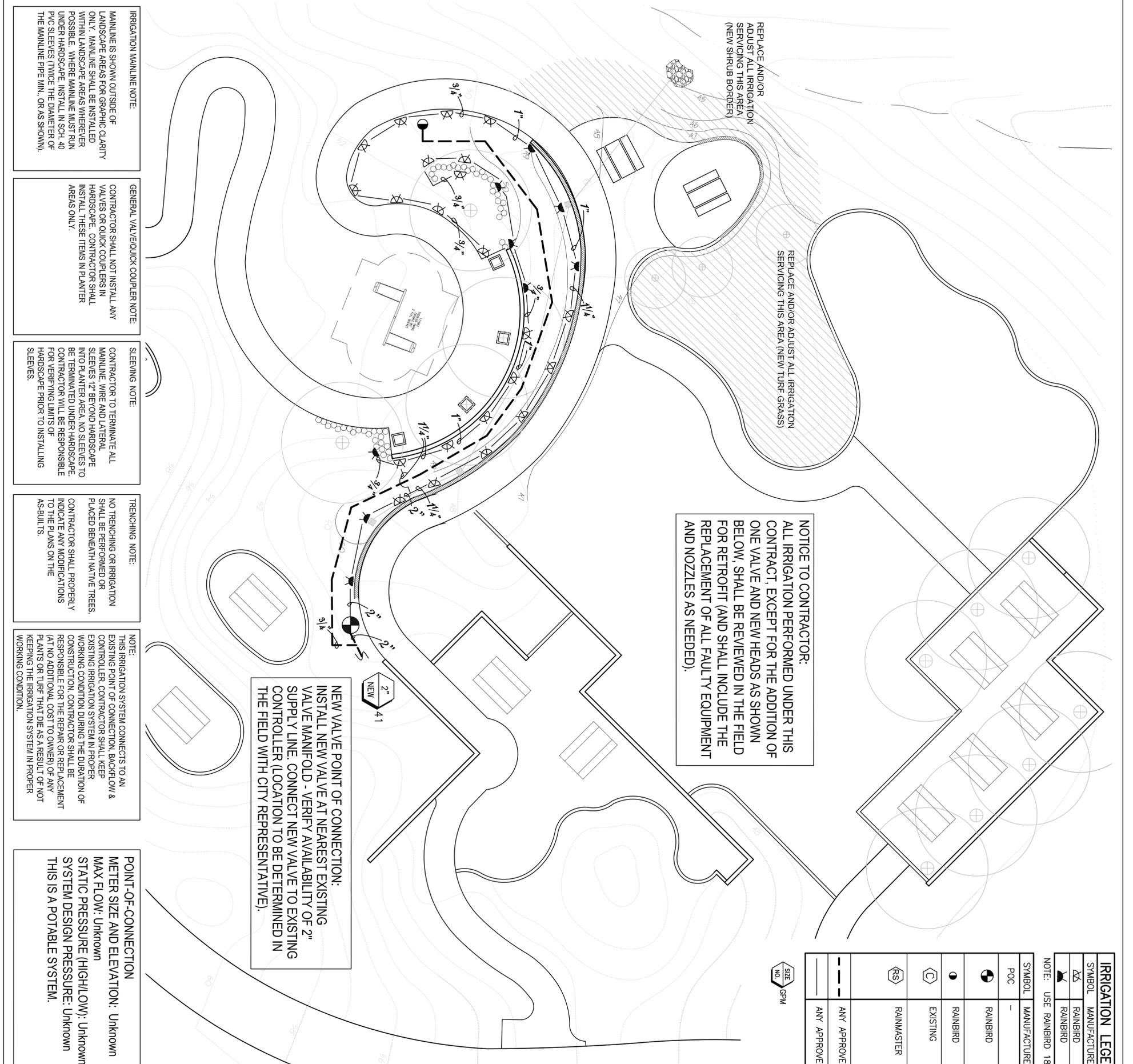
SIZE
IN
GPM

IRRIGATION NOTES

- THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHENEVER POSSIBLE.
- SET ALL VALVES NEXT TO WALKS OR PAVED SURFACES.
- PIPE SIZES SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. NO SUBSTITUTIONS OF SMALLER PIPE SIZES SHALL BE PERMITTED, BUT SUBSTITUTIONS OF LARGER SIZES MAY BE APPROVED. ALL DAMAGED AND REFLECTED PIPE SHALL BE REMOVED FROM THE SITE AT THE TIME OF THE SAID REJECTION.
- BEFORE COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL OBTAIN AN UNDERGROUND SERVICE ALERT (U.S.A.) NUMBER BY CALLING 1-800-422-4133 (TWO) (2) WORKING DAYS SHALL BE ALLOWED AFTER THE U.S.A. NUMBER IS OBTAINED AND BEFORE THE EXCAVATION WORK IS STARTED SO THAT UTILITY OWNERS CAN BE NOTIFIED.
- THE CONTRACTOR SHALL FLUSH THE SYSTEM INCLUDING VALVES FOR OPTIMUM COVERAGE WITH MINIMAL OVER SPRAY ONTO WALKS, STREETS, ETC.
- IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE GRADE DIFFERENCES, LOCATION OF WALLS, AND UTILITIES.
- THE IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED BY HIS WORK. HE SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND LATERALS UNDER ROADWAYS AND PAVING, ETC.
- THE IRRIGATION SYSTEM DESIGN IS BASED ON A MINIMUM OPERATING PRESSURE (UNKNOWN) P.S.I. (FOR EXISTING SYSTEM) AND A MAXIMUM FLOW DEMAND OF (UNKNOWN) FOR EXISTING SYSTEM (G.P.M.). THE CONTRACTOR SHALL VERIFY WATER PRESSURES PRIOR TO CONSTRUCTION AND REPORT THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE ARCHITECT.
- DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT THERE ARE UNKNOWN OBSTRUCTIONS OR GRADE DIFFERENCES IN THE AREA. DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. IN THE EVENT THAT THIS NOTIFICATION IS NOT GIVEN, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY NECESSARY REVISIONS.
- ALL IRRIGATION EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
- THE INTENT OF THE DESIGN IS TO PROVIDE SUFFICIENT WATER TO ALL PLANTING AREAS. AS PART OF THE SCOPE OF WORK, CONTRACTOR SHALL PROVIDE AND INSTALL ANY ADDITIONAL HEADS, NOZZLES AND OTHER EQUIPMENT TO ACHIEVE PROPER COVERAGE WITH A MINIMUM OF RUN OFF AT NO ADDITIONAL COST TO THE OWNER.
- INSTALLATION FOR THE CONTROL WIRES SHALL FOLLOW MAINLINE ROUTING.
- LOCATE VALVE CHART IN CONTROLLER. REDUCE AND ENCASE IN PLASTIC (AS BUILT).
- LOCATE VALVE CHART IN HARDSCAPE. USE 2 X DIAMETER MIN. SCH. 80 P.V.C. MIN. DEPTH 18" TO TOP OF LINE. GUARANTEE: THE INSTALLED IRRIGATION SYSTEM SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE OF THE WORK. SHOULD ANY TROUBLE DEVELOP WITHIN THE TIME SPECIFIED DUE TO INTERIOR OR FAULTY MATERIAL OR WORKMANSHIP, THE TROUBLE SHALL BE CORRECTED BY THE CONTRACTOR WITHOUT EXPENSE TO THE OWNER.
- ALL EXPOSED PVC PIPE SHALL BE UV RATED OR COATED WITH AN APPROVED UV PROTECTIVE COATING.

NEW VALVE POINT OF CONNECTION:
INSTALL NEW VALVE AT NEAREST EXISTING VALVE MANIFOLD - VERIFY AVAILABILITY OF 2" SUPPLY LINE. CONNECT NEW VALVE TO EXISTING IN THE FIELD WITH CITY REPRESENTATIVE.

NOTICE TO CONTRACTOR:
ALL IRRIGATION PERFORMED UNDER THIS CONTRACT, EXCEPT FOR THE ADDITION OF ONE VALVE AND NEW HEADS AS SHOWN BELOW, SHALL BE REVIEWED IN THE FIELD FOR RETROFIT (AND SHALL INCLUDE THE REPLACEMENT OF ALL FAULTY EQUIPMENT AND NOZZLES AS NEEDED).



IRRIGATION MAINLINE NOTE:
MAINLINE IS SHOWN OUTSIDE OF LANDSCAPE AREAS FOR GRAPHIC CLARITY ONLY. MAINLINE SHALL BE INSTALLED WITHIN LANDSCAPE AREAS WHEREVER POSSIBLE. WHERE MAINLINE MUST RUN UNDER HARDSCAPE, INSTALL IN SCH. 40 PVC SLEEVES (TWICE THE DIAMETER OF THE MAINLINE PIPE MIN., OR AS SHOWN).

GENERAL VALVE/QUICK COUPLER NOTE:
CONTRACTOR SHALL NOT INSTALL ANY VALVES OR QUICK COUPLERS IN HARDSCAPE. CONTRACTOR SHALL INSTALL THESE ITEMS IN PLANTER AREAS ONLY.

SLEEVING NOTE:
CONTRACTOR TO TERMINATE ALL MAINLINE WIRE AND LATERAL SLEEVES 12" BEYOND HARDSCAPE INTO PLANTER AREA. NO SLEEVES TO BE TERMINATED UNDER HARDSCAPE. CONTRACTOR WILL BE RESPONSIBLE FOR VERIFYING LIMITS OF HARDSCAPE PRIOR TO INSTALLING SLEEVES.

TRENCHING NOTE:
NO TRENCHING OR IRRIGATION SHALL BE PERFORMED OR PLACED BENEATH NATIVE TREES. CONTRACTOR SHALL PROPERLY INDICATE ANY MODIFICATIONS TO THE PLANS ON THE AS-BUILTS.

NOTE:
THIS IRRIGATION SYSTEM CONNECTS TO AN EXISTING POINT OF CONNECTION, BACKFLOW & CONTROLLER. CONTRACTOR SHALL KEEP EXISTING IRRIGATION SYSTEM IN PROPER WORKING CONDITION DURING THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT (AT NO ADDITIONAL COST TO OWNER) OF ANY PLANTS OR TURF THAT DIE AS A RESULT OF NOT KEEPING THE IRRIGATION SYSTEM IN PROPER WORKING CONDITION.

POINT-OF-CONNECTION METER SIZE AND ELEVATION: Unknown
MAX FLOW: Unknown
STATIC PRESSURE (HIGH/LOW): Unknown
SYSTEM DESIGN PRESSURE: Unknown
THIS IS A POTABLE SYSTEM.

CONTRACTOR IS RESPONSIBLE FOR CONNECTING NEW VALVE (SHOWN AS NEW) TO EXISTING CONTROLLERS.

NOTE:
THE CONTRACTOR IS RESPONSIBLE FOR FIELD-VERIFYING EXISTING CIRCUITING TO ENSURE PROPER WORKING CONDITION OF THE EXISTING IRRIGATION SYSTEM. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE CITY PROJECT MANAGER AND THE LANDSCAPE ARCHITECT.

EXISTING IRRIGATION SYSTEM NOTE:
NO INFORMATION WAS PROVIDED TO THE CONSULTANT REGARDING THE EXISTING IRRIGATION SYSTEM. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY EQUIPMENT CIRCUITING AND ALL OTHER ASPECTS OF THE EXISTING SYSTEM THAT WILL BE AFFECTED BY THE CONSTRUCTION OF THE NEW SYSTEM.

NOTICE TO CONTRACTOR:
REFER TO TREE PROTECTION NOTES, SHEET L-5 REGARDING EARTHWORKS NEAR EXISTING TREES.

REVIEW BY STAFF	BY	DATE
TRAFFIC		
WATER		
SEWER		
PLANNING		
APPROVED BY		

DIAL BEFORE YOU DIG
909-442-4133

AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING

PLAY IT SAFE
DIAL BEFORE YOU DIG

SPRING LINE SOUTHERN CALIFORNIA COUNTIES

REVISIONS

NO.	DATE	DESCRIPTION
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		

DRAWN BY: DHP/BN
CHECKED BY: LW
PROJECT NO. 0726
DATE: 6/15/2009

PROJECT TITLE

**FRED HESSE JR. PARK
GENERAL IMPROVEMENTS
HAWTHORNE BLVD.
RANCHO PALOS VERDES, CA**

SHEET TITLE

**PLAY AREA
IRRIGATION PLAN**

DELIVERIES
20948 TULSA STREET
CHATSWORTH, CA 91311
mail@withersandsoren.com

WITHERS & SANDOREN
LANDSCAPE ARCHITECTURE & PLANNING

P.O. BOX 276
MONTROSE, CA 91021-0276
(818) 291-0200
(818) 882-4394 Fax

James Bell - Director of Public Works
City of Rancho Palos Verdes

LICENSED LANDSCAPE ARCHITECT
JAMES BELL
No. 8236
6/15/2009
STATE OF CALIFORNIA

SHEET 40F 8
L-3