

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
LICENSED LANDSCAPE ARCHITECT _____ Signature _____ Renewal Date _____ Date _____ STATE OF CALIFORNIA					
PLANS APPROVAL DATE _____					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					

IRRIGATION SPRINKLER SCHEDULE

The irrigation sprinkler schedule identifies sprinkler types and specifies item components. Sprinkler symbols are identified on the sprinkler schedule, not on the irrigation quantity table.

See "Summary of Quantities" narrative in Section 2-2.19 and Generic Summary of Quantities example sheet for additional information about standards for tables, e.g. text, line weight, etc.

Resize symbols used on the Irrigation Plan as needed to fit in the table. The Caltrans cell SPRSCH includes standard sprinkler symbols, placed outside the sheet border, that are already resized to copy and paste into the irrigation sprinkler schedule table as needed.

Use the cell from the Cell Library and add or delete rows and columns as required

REPEATED INFORMATION
Identical entries listed multiple times under the same heading should be repeated in each applicable box or can be merged if they are adjacent. Down arrows or ditto marks are not allowed.

BLANK BOXES
If no entry is needed, leave a box blank, don't enter a dash. If an entire row or column has no entries, delete the row or column; don't leave it empty.

The precipitation rates of the sprinklers connected to the same valve must not vary by more than 10 percent.

Enter PI or FH

See Standard Plan H4

IRRIGATION SPRINKLER SCHEDULE

SYMBOL	ITEM DESCRIPTION	SPRAY PATTERN	RADIUS	LENGTH X WIDTH	OPERATING PRESSURE	DISCHARGE RATE		PRECIPITATION RATE	INLET CONNECTION DIAMETER	SWING JOINT TYPE	RISER SPRINKLER ASSEMBLY			POP-UP SPRINKLER ASSEMBLY		TREE WELL DRAINPIPE LENGTH	REMARKS
						GPM	GPH				INCH/hr	INCH	INCH	HEIGHT	HEIGHT		
	The entries in this column should match the descriptions in the Bid Item List, verbatim.		f+	f+	psi						TYPE	HEIGHT	MATERIAL	HEIGHT	SPRINKLER PROTECTOR TYPE	INCH	additional remarks or notes

SPRINKLER SYMBOLS
Use standard sprinkler symbols from the current Caltrans cell library. The symbols on the irrigation sprinkler schedule must be consistent with the project irrigation plans.

- Circle symbol is typically used for part circle spray pattern.
- Square symbol is typically used for full circle spray pattern.

Circle and square symbols are used for gear driven sprinklers and they include a number within the symbol. Use an odd number for a riser assembly and an even number for a pop-up assembly.

- △ Typically used for shrub spray, stream spray or bubblers with 0/C spacing and spray pattern.
- Typically used for shrub spray, stream spray or bubblers with 0/C spacing and spray pattern.

SPRAY PATTERN ABBREVIATIONS

F/P	Full/Part Circle	TT	Two-Thirds Circle	CS	Center Strip
F	Full Circle	H	Half Circle	SST	Side Strip
P	Part Circle	T	Third Circle	EST	End Strip
TQ	Three-Quarter Circle	Q	Quarter Circle		

OPERATING PRESSURE, DISCHARGE RATE AND PRECIPITATION RATE
Operating pressure and discharge and precipitation rates should reflect manufacturer's catalogue specification, not necessarily the field performance of the sprinkler.

INLET CONNECTION
Show the National Pipe Thread (NPT) size expressed in inches. It is not necessary to indicate male or female threads.

SWING JOINT TYPE
See Standard Plan H5. Indicate detail type.
Type I or II: Use adjacent to shoulders, dikes, curbs and sidewalks.
Type III: Use on slopes. Allows for adjusting risers perpendicular to the plane of the slope.

RISER SPRINKLER ASSEMBLY TYPE
See Standard Plan H4. Indicate detail type.

Riser Type I
Use on full circle and half circle sprinkler heads which are less likely to get broken but may suffer damage from dragging spray hoses, string trimmers and other maintenance activities. It is recommended to specify GSP riser material to ensure the coupling is in the weak point in the riser.

Riser Type II
Use where heads are not located in an area subject to disturbance by vehicles or pedestrians, i.e., immediately adjacent to walls.

Riser Type III
This is a flexible riser to be installed where risers have a moderate potential to get broken.

Riser Type IV
Use where risers are likely to get broken, i.e.: adjacent to shoulders where vehicles may run over them or in pedestrian areas where pop-up sprinklers are not practical. Riser Type IV is intended to be used with a standard PVC coupling or a device that breaks upon impact and automatically stops the flow of water depending on the circumstances. Riser material should be GSP. Do not callout for a riser support when using Type IV as it comes with the support.

Riser Type V
Use where flood bubblers are placed in plant basins. No swing joint is specified when this riser is used.

ROW SPACING
Use 26 feet between rows for single or double line of text so that there is room for the sprinkler symbol. Use 36 feet between rows for triple line of text.

HEIGHT
Indicate the height of the riser above the finish grade in inches. See Standard Plan H4 that illustrates what is considered the riser height.

SPRINKLER PROTECTOR TYPE
See Standard Plan H5. Indicate sprinkler protector detail Type I or Type II. Sprinkler protectors are used adjacent to curbs, dikes, shoulders, edge of travelled way, toe of slope, or as needed where sprinklers or quick couplers are likely to be driven on.

When the ISS sheet includes the Irrigation Quantity Tables (no 10 sheets), do not change the ISS sheet name.

NOTES:

- NOTE
- NOTE
- NOTE
- NOTE
- NOTE
- NOTE

Make notes project specific. Circle the note number and show the number circled in the column heading for the applicable item or in the applicable cell for the plant species.

Common example notes include:

- DRIP TUBING TO HAVE A NON-ADJUSTABLE DISCHARGE RATE
- FLOW SHUT-OFF FEATURE NOT REQUIRED
- SPRINKLER BODY TO INCLUDE PRE-INSTALLED FLOW SHUT-OFF FEATURE
- SPRINKLER BODY TO INCLUDE PRE-INSTALLED PRESSURE REDUCING FEATURE
- INCLUDE CHECK VALVE (SPRING CHECK) ON RISER
- SPRINKLER BODY TO INCLUDE PRE-INSTALLED CHECK VALVE

LANDSCAPE, IRRIGATION AND PLANTING EXAMPLE A1, IRRIGATION SPRINKLER SCHEDULE INSTRUCTIONS

IRRIGATION SPRINKLER SCHEDULE ISS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 SENIOR LANDSCAPE ARCHITECT
 LANDSCAPE ARCHITECTURE
 PLANS PREPARATION MANUAL

EXAMPLE A1 IRRIGATION SPRINKLER SCHEDULE INSTRUCTIONS - RELEASED 05/05/2020
 LAST REVISION | DATE PLOTTED =>
 00-00-00 | TIME PLOTTED =>