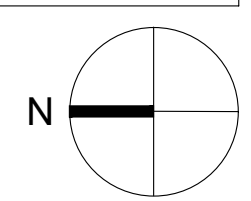


PRIOR TO THE DEMOLITION PHASE, THE LANDSCAPE CONTRACTOR IS REQUIRED TO TURN-ON EACH IRRIGATION CONTROL VALVE WITHIN THE SCOPE OF WORK, ADJACENT TO THE SCOPE OF WORK OR ADJACENT TO THE SCOPE OF WORK BEYOND PLAN VIEW, AND DOCUMENT EACH AREA BEING TURNED-ON. THEREAFTER, THE IRRIGATION CONTRACTOR SHALL TURN-OFF EACH VALVE, AND "PROTECTED-IN-PLACE" MUST REMAIN CONNECTED TO THEIR EXISTING VALVES. ALL EXISTING VALVES MUST REMAIN WIRED TO SAID EXISTING CONTROLLER(S) UNLESS NOTED DIFFERENTLY ON THE DEMOLITION PLAN. EXISTING MAINLINE AND VALVE WIRING SHALL BE LEFT IN PLACE AND WIRING SHALL BE LEFT IN PLACE FOR ALL EXISTING VALVES BEING REPLACED WITH NEW REMOTE CONTROL VALVE ASSEMBLIES. ANY EXISTING MAINLINE OR WIRES DAMAGED DURING DEMOLITION CONSTRUCTION WILL NEED TO BE REPLACED BY THE LANDSCAPE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTINUED FUTURE OPERATION OF THE EXISTING AND NEWLY DESIGNED IRRIGATION SYSTEM.





DRAWING ISSUANCE

[illegible]

PROJECT NAME

4045 190TH STREET
TORRANCE, CA 90504

TITLE

IRRIGATION PLAN (OVERALL)

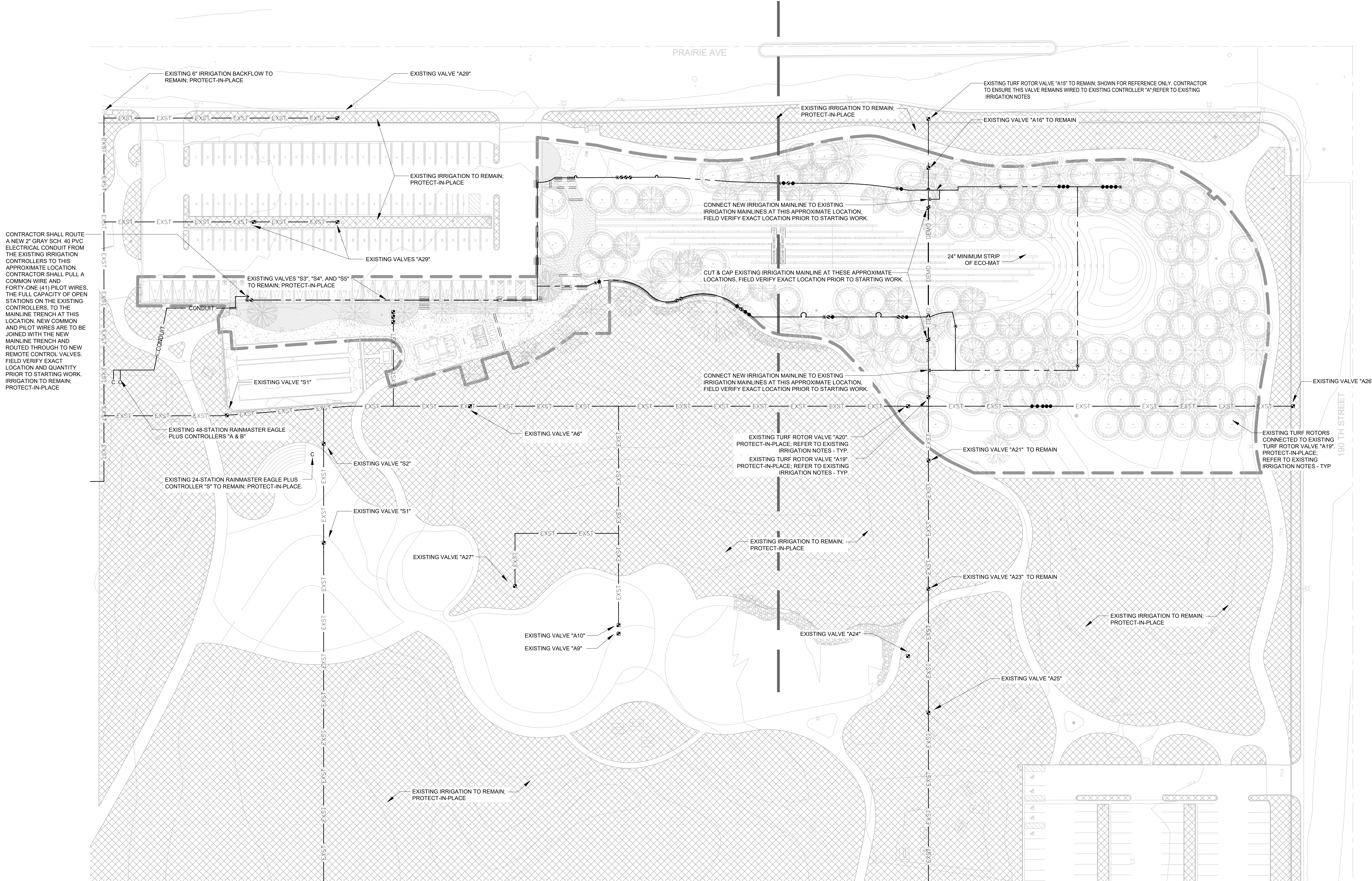
PROJECT
2024-16
SCALE
1/32" = 1'
DATE

SHEET NUMBER

LI1.01

ORIGINAL SIZE: 30"x42"

©CSAQ, INC



NOTE A:
CONTRACTOR SHALL MAINTAIN EXISTING MAINLINES IN WORKING ORDER. COORDINATE ALL
INTERRUPTIONS OF OPERATION OF THE EXISTING IRRIGATION TO A MINIMUM. COORDINATE ALL
INTERRUPTIONS WITH THE OWNER'S REPRESENTATIVE.

NOTE B:
CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING IRRIGATION EQUIPMENT DAMAGED DURING CONSTRUCTION AND IF DAMAGED, SHALL REPLACE WITH SAME MANUFACTURER AND MODEL.

NOTE C:
ANY EXISTING IRRIGATION CONTROL VALVES CONNECTED TO EXISTING CONTROLLER SHALL BE
RECONNECTED TO EXISTING CONTROLLER. CONFIRM PROPER CONTROLLER OPERATION AND
INSTALLATION WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK AND
UPON COMPLETION OF WORK.

NOTE D:
CONTRACTOR SHALL CONFIRM THE EXISTING CONTROLLER MAKE AND MODEL AND SHALL
CONFIRM THAT SAID CONTROLLER HAS ADEQUATE OPEN STATIONS TO OPERATE ANY
ADJUSTED AND ALL PROPOSED IRRIGATION SYSTEM MODIFICATIONS. NOTIFY OWNER'S
AUTHORIZED REPRESENTATIVE SHOULD ANY DISCREPANCIES BE NOTED.

NOTE E:
CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR/MODIFICATION/REROUTING OF ALL ADJACENT IRRIGATION SYSTEM EQUIPMENT THAT IS AFFECTED BY NEW CONSTRUCTION IMPROVEMENTS. CONTRACTOR SHALL REPAIR SAID SYSTEMS TO A LIKE NEW MANNER, PROVIDING NO LESS THAN 100% OF HEAD RADIUS COVERAGE IN ALL AREAS WITH SYSTEM LAYOUT AS APPROVED BY OWNER'S AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL CONFIRM ALL AREAS REQUIRING MODIFICATION WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO BIDDING WORK AND PRIOR TO STARTING WORK.

NOTE F:
CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMOVAL AND DISPOSAL OF ALL EXISTING IRRIGATION EQUIPMENT AFFECTED BY THE NEW CONSTRUCTION IMPROVEMENTS, IF NECESSARY. CONTRACTOR SHALL VERIFY ALL EQUIPMENT TO BE REMOVED AND DISPOSED OF IN FIELD PRIOR TO BIDDING WORK AND PRIOR TO STARTING WORK.

NOTE G:
CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO BIDDING WORK AND AGAIN PRIOR TO STARTING WORK. VERIFICATION SHALL BE DOCUMENTED AND DELIVERED TO OWNER'S REPRESENTATIVE.

NOTE H:
CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ALL SCH 40 PVC SLEEVING UNDER PAVING, WALLS AND CURBS AT NO LESS THAN 24" BELOW GRADE AND NO LESS THAN 2X DIAMETER OF IRRIGATION PIPE IN AREAS WHERE PIPE CROSSING WILL OCCUR. WHEN PIPE SIZE IS NOT AVAILABLE USE 6" SLEEVING MATERIAL. CONFIRM CROSSINGS WITH OWNER'S REPRESENTATIVE PRIOR TO PAVING AND HARDSCAPE CONSTRUCTION.

NOTE A:
THESE PLANS ARE DIAGRAMMATIC, THE MAINLINE AND RELATED IRRIGATION
EQUIPMENT IS SHOWN WITHIN THE PAVING FOR CLARITY ONLY. THE ACTUAL LOCATION
OF MAINLINE AND RELATED IRRIGATION EQUIPMENT SHALL BE WITHIN PLANTER AND A
MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES, TYPICAL.

NOTE B:
CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR IN THE LANDSCAPE, INCLUDING BUT NOT LIMITED TO LIGHT POLES, FIRE HYDRANTS, TREES, ETC. WHEN A SLIGHT RELOCATION OF THE HEAD IS NOT SUFFICIENT TO CLEAR THE OBSTACLE, OR IF IT NEGATIVELY AFFECTS THE COVERAGE, AN ADDITIONAL HEAD SHALL BE INSTALLED TO PLACE ONE HEAD ON EITHER SIDE OF THE OBSTACLE. THE NOZZLES OF THESE TWO HEADS SHALL HAVE ARC PATTERNS THAT ADD UP TO THE ORIGINAL ARC PATTERN OF THE HEAD INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY ALL HEAD LAYOUT WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE C:
THESE PLANS ARE DIAGRAMMATIC. TREE BUBBLERS AND LATERAL LINES ARE SHOWN
WITHIN THE PAVING FOR CLARITY ONLY. THE ACTUAL LOCATIONS SHALL BE WITHIN THE
PLANTER. THE TREE BUBBLERS SHALL BE ALIGNED WITH TREES AS SHOWN ON THE
PLANTING PLANS, AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. THE
CONTRACTOR SHALL CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED
REPRESENTATIVE PRIOR TO STARTING WORK.

sweeney + associates
IRRIGATION DESIGN AND CONSULTING

s+a Murrieta, Ca 92563
e: info@sweeeneyassoc.com | (951) 461-6830
w: www.sweeeneyassoc.com | f: (951) 461-6850

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN



NOTE A:
CONTRACTOR SHALL MAINTAIN EXISTING MAINLINES IN WORKING ORDER. COORDINATE ALL INTERRUPTIONS OF OPERATION OF THE EXISTING IRRIGATION TO A MINIMUM. COORDINATE ALL INTERRUPTIONS WITH THE OWNER'S REPRESENTATIVE.

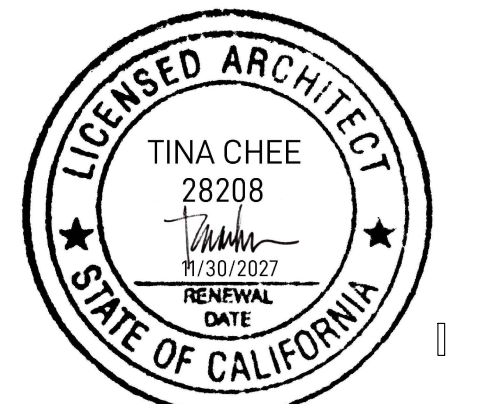
NOTE B:
CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING IRRIGATION EQUIPMENT DAMAGED DURING CONSTRUCTION AND IF DAMAGED, SHALL REPLACE WITH SAME MANUFACTURER AND MODEL.

NOTE C:
ANY EXISTING IRRIGATION CONTROL VALVES CONNECTED TO EXISTING CONTROLLER SHALL BE RECONNECTED TO EXISTING CONTROLLER. CONFIRM PROPER CONTROLLER OPERATION AND INSTALLATION WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK AND UPON COMPLETION OF WORK.

NOTE D:
CONTRACTOR SHALL CONFIRM THE EXISTING CONTROLLER MAKE AND MODEL AND SHALL CONFIRM THAT SAID CONTROLLER HAS ADEQUATE OPEN STATIONS TO OPERATE ANY REQUESTED AND ALL PROPOSED IRRIGATION SYSTEM MODIFICATIONS. NOTIFY OWNER'S AUTHORIZED REPRESENTATIVE SHOULD ANY DISCREPANCIES BE NOTED.

NOTE 1:
EXISTING IRRIGATION IN THIS AREA SHALL BE PROTECTED IN PLACE FOR CONTINUED USE.
CONTRACTOR SHALL VERIFY THE EXTENT OF THE EXISTING SYSTEM AND MAKE ADJUSTMENTS
TO CAP OFF OR MODIFY THE EXISTING SYSTEM TO MEET THE NEW LANDSCAPE CONDITION IF
NECESSARY.

NOTE 2:
CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING WITHIN THE DRIPLINE OF
EXISTING TREES. NO MECHANICAL TRENCHING WITHIN THE DRIPLINE OF THE EXISTING TREE
WILL BE ALLOWED. AIR SPADE SHALL BE UTILIZED FOR ALL TRENCHING WITHIN THE DRIPLINE
OF TREES. CONTRACTOR SHALL REFER TO ARBORIST REPORT FOR ADDITIONAL PRECAUTIONS
REGARDING THE EXISTING TREES. VERIFY ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED
REPRESENTATIVE.

[illegible]

4045 190TH STREET
TORRANCE, CA 90504

TITLE

PROJECT
2024-16

SCALE
1/16" = 1'-0"

DATE _____

ORIGINAL SIZE: 30"x42"

SHEET NUMBER

11.03

CSAO, INC.



NOTE A:
CONTRACTOR SHALL MAINTAIN EXISTING MAINLINES IN WORKING ORDER. COORDINATE ALL
INTERRUPTIONS OF OPERATION OF THE EXISTING IRRIGATION TO A MINIMUM. COORDINATE ALL
INTERRUPTIONS WITH THE OWNER'S REPRESENTATIVE.

NOTE B:
CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING IRRIGATION EQUIPMENT DAMAGED
DURING CONSTRUCTION AND IF DAMAGED, SHALL REPLACE WITH SAME MANUFACTURER AND
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NOTE I:
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CONTRACTOR SHALL VERIFY THE EXTENT OF THE EXISTING SYSTEM AND MAKE ADJUSTMENTS
TO CAP OFF OR MODIFY THE EXISTING SYSTEM TO MEET THE NEW LANDSCAPE CONDITION IF
NECESSARY.

NOTE J:
CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING WITHIN THE DRIPLINE OF EXISTING TREES. NO MECHANICAL TRENCHING WITHIN THE DRIPLINE OF THE EXISTING TREE WILL BE ALLOWED. AIR SPADE SHALL BE UTILIZED FOR ALL TRENCHING WITHIN THE DRIPLINE OF TREES. CONTRACTOR SHALL REFER TO ARBORIST REPORT FOR ADDITIONAL PRECAUTIONS REQUIRED FOR THE EXISTING TREES. VERIFY ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE.

NOTE A:
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OF THE HEAD IS NOT SUFFICIENT TO CLEAR THE OBSTACLE, OR IF IT NEGATIVELY
AFFECTS THE COVERAGE, AN ADDITIONAL HEAD SHALL BE INSTALLED TO PLACE ONE
HEAD ON EITHER SIDE OF THE OBSTACLE. THE NOZZLES OF THESE TWO HEADS SHALL
BE POINTED IN OPPOSITE DIRECTIONS UP TO 45 DEGREES. THE HEAD LAYOUT
INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY ALL HEAD LAYOUT WITH
OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE C:
THESE PLANS ARE DIAGRAMMATIC. TREE BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN THE PAVING FOR CLARITY ONLY. THE ACTUAL LOCATIONS SHALL BE WITHIN THE PLANTER. THE TREE BUBBLERS SHALL BE ALIGNED WITH TREES AS SHOWN ON THE PLANTING PLANS, AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

IRRIGATION NOTES


sweeney + associates
IRRIGATION DESIGN AND CONSULTING


S+a **Murietta, Ca 92563**
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w: www.sweeneyassoc.com | f: (951) 461-6850

**I HAVE COMPLIED WITH THE CRITERIA OF THE
IRRIGATION GUIDELINES AND APPLIED THEM
ACCORDINGLY FOR THE EFFICIENT USE OF
WATER IN THE IRRIGATION DESIGN PLAN**



D:\SWEENEY & ASSOCIATES DROPBOX\DRAWINGS - ORANGE COUNTY\TINA CHEE LANDSCAPE STUDIO\WWII INCARCERATION CAMP MONUMENT\1.01- WWIIM SITE IRRIGATION PLAN GW-16T.DWG - PLOTTED BY GWYNER ON 3/24/2026

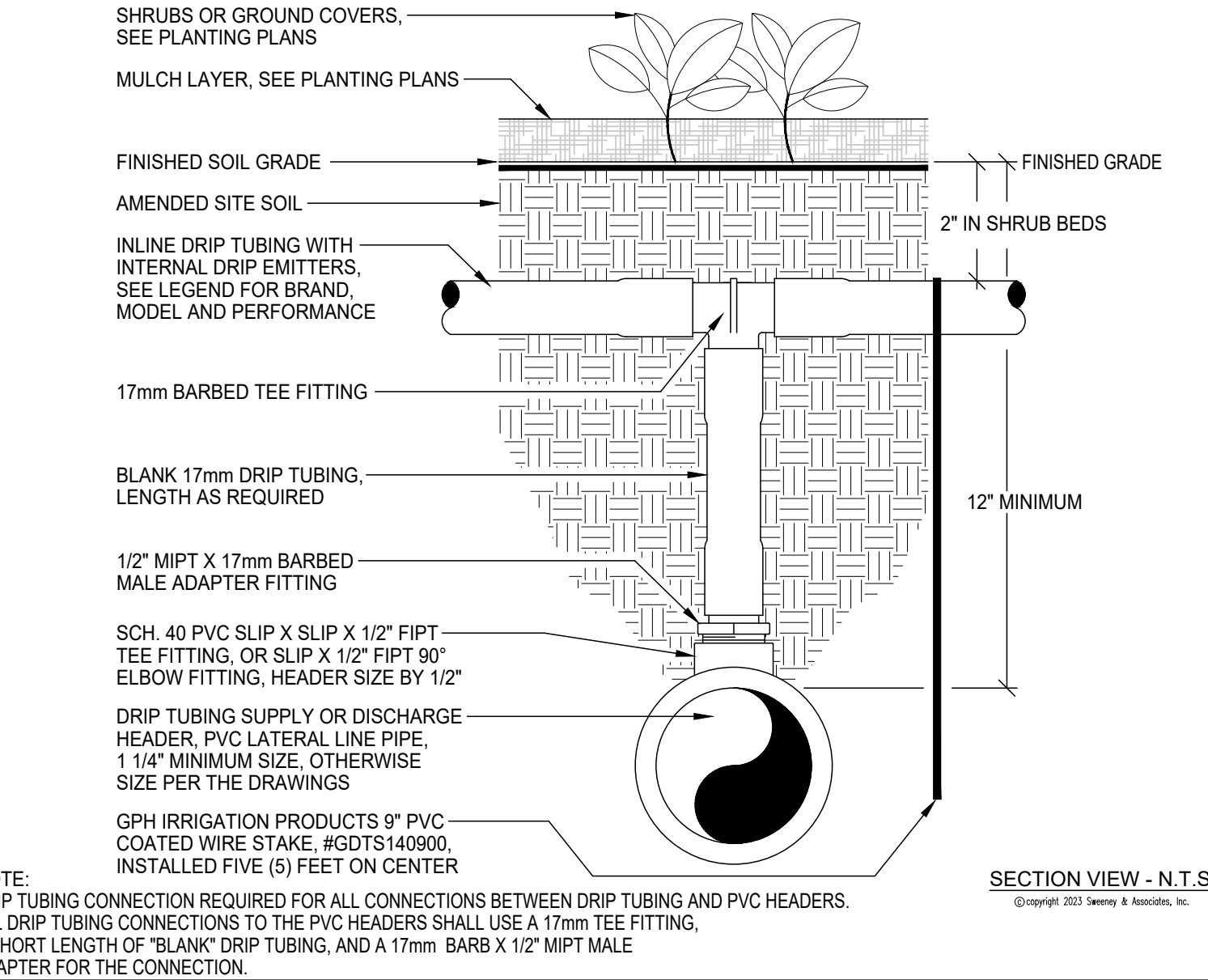
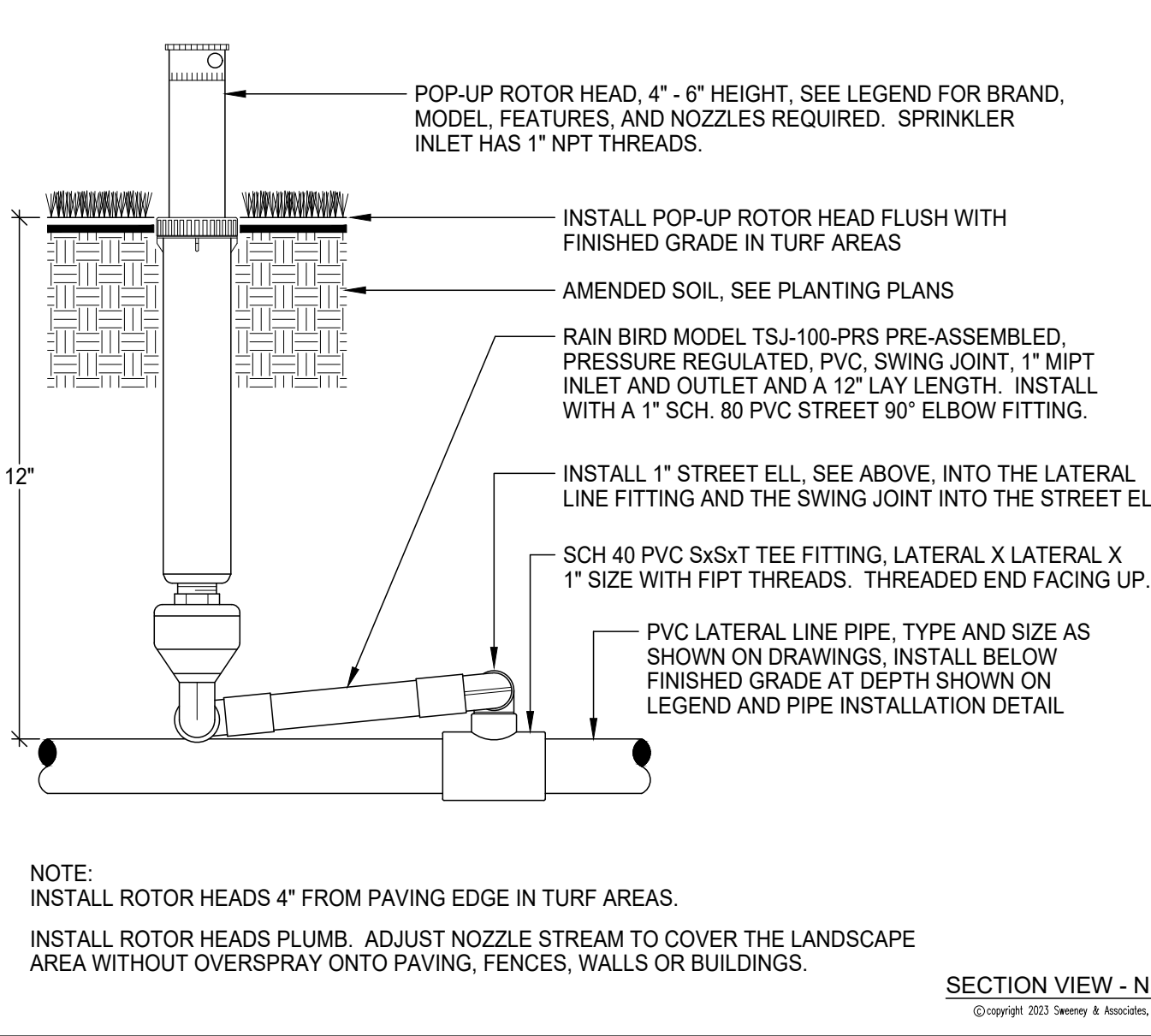
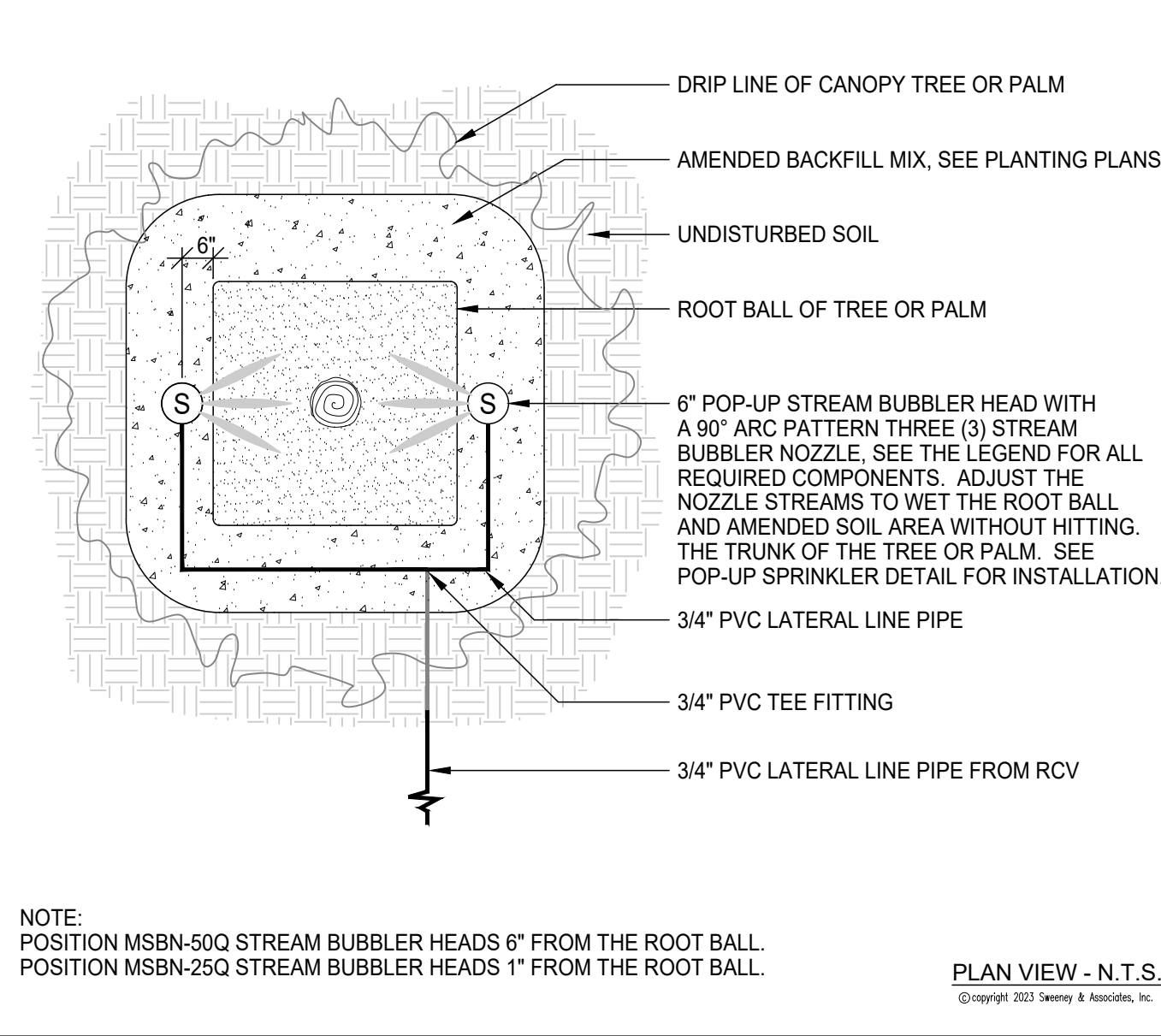
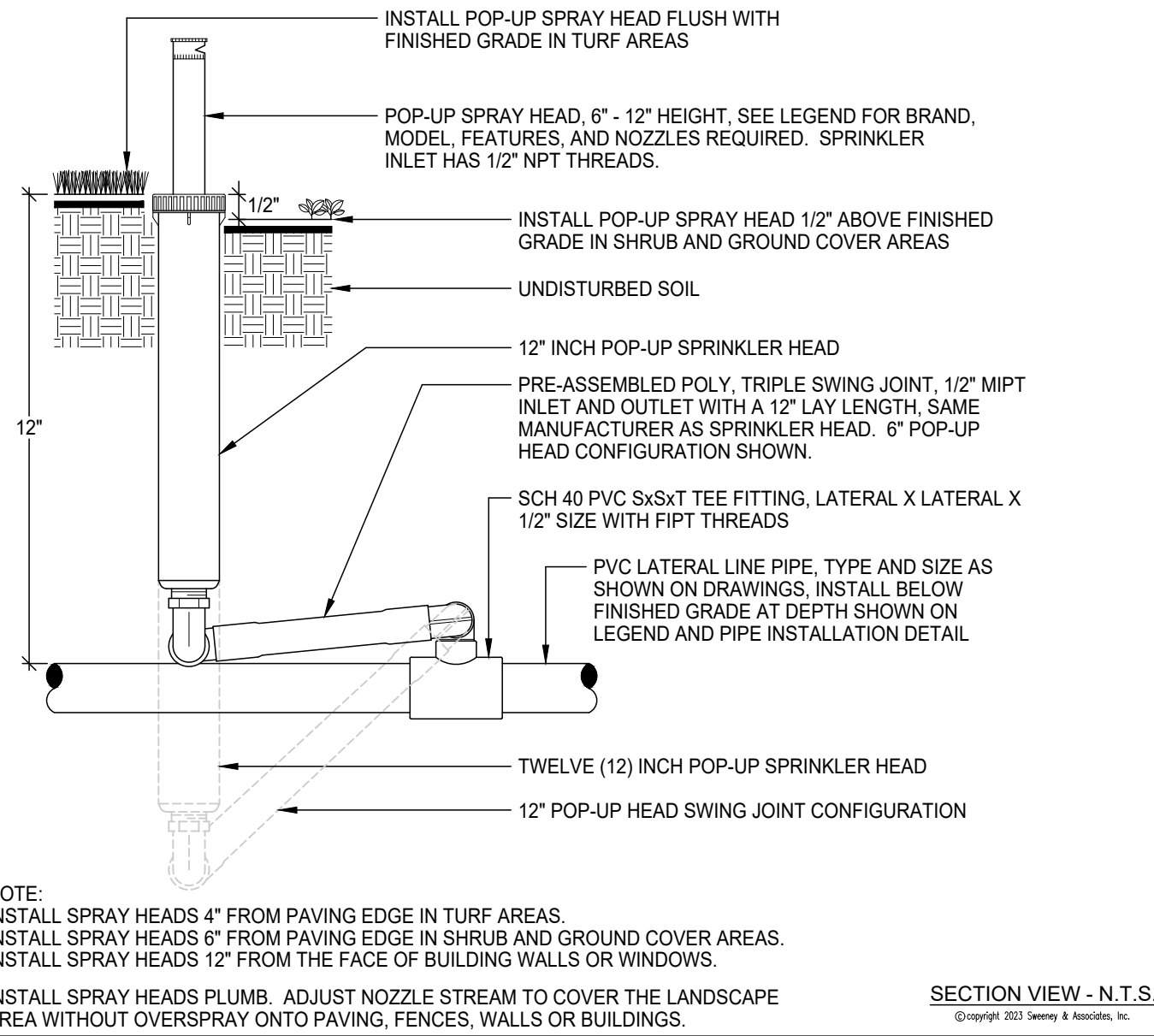
This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package									
Project Name:	WW II INTERNMENT CAMP MONUMENT				 sweeney + associates IRRIGATION DESIGN AND CONSULTING				
Project Address:	4045 190th Street Torrance, CA 90504								
Reference Evapotranspiration (ETo)		42.6	In. / Yr.	Residential Project?		No			
Hydrozone # / Planting Description ^a	Plant Factor	Irrigation Method ^b	Irrigation Efficiency (IE) ^c	ETAF (PF / IE)	Landscape Area (Sq. Ft.)	ETAF x Area	Estimated Total Water Use (ETWU) ^d		
Regular Landscape Areas									
1. Low Water Use Plantings	0.20	Drip	0.81	0.247	25,594	6,319.5	166,911		
2. High Water Use Turf	0.80	Eco-Mat Drip	0.81	0.988	2,002	1,977.3	52,224		
3. High Water Use Turf	0.80	Overhead	0.75	1.067	50,658	54,035.2	1,427,178		
Totals:					78,254	62,332.0			
Special Landscape Areas					Totals:		0	0	
Total of All Landscape Areas:		78,254	Estimated Total Water Use (ETWU) Total:				1,646,313		
			Maximum Applied Water Allowance (MAWA) ^e :				930,080		
* Hydrozone # / Planting Description			* Irrigation Method		* Irrigation Efficiency				
E.g.			Overhead Spray or Drip		0.75 for Spray				
1.) Front Lawn					0.81 for Drip				
2.) Low Water Use Plantings									
3.) Medium Water Use Plantings									
*ETWU (Annual Gallons Required) = ETo x 0.62 x ETAF x Area									
Where 0.62 is a conversion factor that converts acre-inches/acre/year to gallons/square foot/year.									
*MAWA (Annual Gallons Allowed) = ETo x 0.62 x [(ETAF x LA) + ((1 - ETAF) x SLA)]									
Where 0.62 is a conversion factor that converts acre-inches/acre/year to gallons/square foot/year, LA is the total landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is 0.55 for residential projects and 0.45 for non-residential projects.									
Evapotranspiration Adjustment Factor (ETAF) Calculations									
Please adjust the project hydrozone information in order to comply					0.45				
Regular Landscape Areas			All Landscape Areas						
(Excludes Special Landscape Areas)			(Includes Special Landscape Areas)						
Total ETAF x Area			Total ETAF x Area						
62,332			62,332						
Total Area			Total Area						
78,254			78,254						
Average ETAF			Average ETAF						
0.80			0.80						

WATER EFFICIENT LANDSCAPE WORKSHEET									
This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package									
Project Name:		WWII INTERNMENT CAMP MONUMENT			 sweeney + associates IRRIGATION DESIGN AND CONSULTING				
Project Address:		4045 190th Street Torrance, CA 90504							
Reference Evapotranspiration (ETo)		42.6		In. / Yr.		Residential Project?		No	
Hydrozone # / Planting Description ^a	Plant Factor	Irrigation Method ^b	Irrigation Efficiency (IE) ^c	ETAF (PF / IE)	Landscape Area (Sq. Ft.)	ETAF x Area	Estimated Total Water Use (ETWU) ^d		
Regular Landscape Areas					Totals:		0	0.0	
Special Landscape Areas									
1. Shrubs With Drip Supplied By Recycled Water					1.00	25,594	25,594	675,989	
2. Turf With Overhead Supplied By Recycled Water					1.00	50,658	50,658	1,337,979	
3. Turf With Eco-Mat Supplied By Recycled Water					1.00	2,002	547	14,447	
					Totals:		78,254	76,799	
Total of All Landscape Areas:		78,254	Estimated Total Water Use (ETWU) Total:				2,028,415		
			Maximum Applied Water Allowance (MAWA) ^e :				2,066,845		
* Hydrozone # / Planting Description			* Irrigation Method			* Irrigation Efficiency			
E.g.						0.75 for Spray			
1.) Front Lawn			Overhead Spray or Drip			0.81 for Drip			
2.) Low Water Use Plantings									
3.) Medium Water Use Plantings									
*ETWU (Annual Gallons Required) = ETo x 0.62 x ETAF x Area									
Where 0.62 is a conversion factor that converts acre-inches/acre/year to gallons/square foot/year.									
*MAWA (Annual Gallons Allowed) = ETo x 0.62 x [(ETAF x LA) + ((1 - ETAF) x SLA)]									
Where 0.62 is a conversion factor that converts acre-inches/acre/year to gallons/square foot/year, LA is the total landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is 0.55 for residential projects and 0.45 for non-residential projects.									
Evapotranspiration Adjustment Factor (ETAF) Calculations									
This non-residential project complies with the WELO and its average ETAF is less than							0.45		
Regular Landscape Areas				All Landscape Areas					
(Excludes Special Landscape Areas)				(Includes Special Landscape Areas)					
Total ETAF x Area				Total ETAF x Area					
0				76,799					
Total Area				Total Area					
78,254				78,254					
Average ETAF				Average ETAF					
0.00				0.98					

WATER PRESSURE LOSS CALCULATIONS						
WATER METER NUMBER		WATER METER SIZE (inches)				
HYDRAULIC GRADE LINE (FT)		WATER METER ELEVATION (FT)				
ELEVATION DIFFERENCE (FT)		MIN. REQ. STATIC PRESSURE (PSI)				
		68.0				
REMOTE CONTROL VALVE #		A11	REMOTE CONTROL VALVE SIZE (in.)			
R.C.V. DEMAND (GPM)		63	TOTAL DEMAND (GPM)			
		63				
HIGHEST HEAD SERVED (FT)		STATIC PRESSURE AT HIGHEST HEAD				
sweeney + associates		PRESSURE LOSS CALCULATION IS PROVIDED FOR THIS PROJECT BY SWEENEY & ASSOCIATES, INC. UNAUTHORIZED USE BY ANY OTHER PERSON, COMPANY OR PROJECT IS FORBIDDEN WITHOUT WRITTEN PERMISSION.				
SIZE (inches)		DESCRIPTION		FLOW	#	LOSS
3.00		ISOLATION VALVES (GATE TYPE)		63	9	1.00 PSI
3.00		300 FEET OF MAINLINE- CL. 200 BELL & GASKET		63	10	1.05 PSI
3.00		3 90 DEGREE ELBOWS		63	13	0.18 PSI
2.00		REMOTE CONTROL VALVE ASSEMBLY		63	14	3.50 PSI
10%		LATERAL LINE LOSSES		63	15	5.00 PSI
20%		FITTING LOSS (IN ADDITION TO ELBOWS SHOWN)		N/A	16	0.21 PSI
0.00		ELEVATION CHANGE (P.O.C. TO HIGHEST HEAD)		N/A	17	0.00 PSI
TOTAL SYSTEM PRESSURE LOSS (SUM OF #1 THRU #17)				18 10.9 PSI		
PRESSURE REQUIRED AT HEAD (OPERATING PRESSURE)				19 50.0 PSI		
TOTAL PRESSURE REQUIRED (SUM OF #18 AND #19)				20 60.9 PSI		
STATIC WATER PRESSURE (FROM ABOVE)				21 68.0 PSI		
RESIDUAL PRESSURE (SUBTRACT #20 FROM #21)				22 7.1 PSI		
SET PRV OR MOV AT #20 PLUS 10 PSI				23 N/A PSI		
PRESSURE BOOST, IF REQUIRED (SET TO ACHIEVE 20 PSI RESIDUAL)				24 N/A PSI		

IRRIGATION CONTROLLER RUN TIMES																											
POC or Controller EX. A																											
	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		Total / Avg.		
	ETo / Month (Inches):		2.20		2.40		3.30		3.80		4.50		4.70		5.40		4.80		4.30		2.80		2.40		2.00		42.60
	ETo / Day (Inches):		0.07		0.09		0.11		0.13		0.15		0.16		0.17		0.15		0.14		0.09		0.08		0.06		0.12
	Irrigation Days / Week:		2		2		3		3		5		5		6		6		5		3		2		2		
Plant / Irrig. Type	AkC	Pr Rate	IE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC												
High Turf Rotors	0.80	0.70	0.75	22.7	27.4	22.7	27.0	18.6	20.1	18.6	16.5	18.3	19.3	25.6	20.6	Min./Day/Zone											
	Number of Zones:		8	181.7	219.4	181.7	216.2	148.6	160.4	148.6	132.1	146.8	154.2	204.8	165.2	2.04 Min./Day											
High Turf Eco-MAT Drip	0.80	0.91	0.81	16.2	19.5	16.2	19.2	13.2	14.3	13.2	11.8	13.1	13.7	18.2	14.7	Min./Day/Zone											
	Number of Zones:		1	16.2	19.5	16.2	19.2	13.2	14.3	13.2	11.8	13.1	13.7	18.2	14.7	1.47 Min./Day											
Low Shrubs Drip Tubing	0.20	0.79	0.81	4.7	5.6	4.7	5.5	3.8	4.1	3.8	3.4	3.8	4.0	5.3	4.2	Min./Day/Zone											
	Number of Zones:		10	46.6	56.3	46.6	55.4	38.1	41.1	38.1	33.9	37.6	39.5	52.5	42.3	4.23 Min./Day											
High Turf Sprays	0.80	1.75	0.75	9.1	11.0	9.1	10.8	7.4	8.0	7.4	6.6	7.3	7.7	10.2	8.3	Min./Day/Zone											
	Number of Zones:		2	18.2	21.9	18.2	21.6	14.9	16.0	14.9	13.2	14.7	15.4	20.5	16.5	2.16 Min./Day											
Low Trees Bubblers	0.20	1.50	0.75	2.6	3.2	2.6	3.2	2.2	2.3	2.2	1.9	2.1	2.2	3.0	2.4	Min./Day/Zone											
	Number of Zones:		6	15.9	19.2	15.9	18.9	13.0	14.0	13.0	11.6	12.8	13.5	17.9	14.5	4.48 Min./Day											
Moderate Trees Bubblers	0.40	1.50	0.75	5.3	6.4	5.3	6.3	4.3	4.7	4.3	3.9	4.3	4.5	6.0	4.8	Min./Day/Zone											
	Number of Zones:		4	21.2	25.6	21.2	25.2	17.3	18.7	17.3	15.4	17.1	18.0	23.9	19.3	14.8 Min./Day											
Total Number of Zones:			31	300	362	300	357	245	265	245	218	242	254	336	272	Total Min./Day											
Total Controller Run Time in Hours:			4.99	6.03	4.99	5.94	4.41	4.99	3.63	4.04	3.63	4.04	5.63	4.54	4.21	Total Hrs./Day											
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC													
Note: These schedules are intended only for compliance with local municipal codes and the water efficient landscape ordinance. These calculations represent the MAXIMUM REASONABLE run times and are used to ensure that all irrigation may be completed during the specific watering window allowed. These schedules do not include rainfall, soil type, specific exposures (shade versus sun), actual irrigation days, or specific slope position. It is solely the responsibility of the irrigation contractor to program the controller as required to apply the correct amount of irrigation water for the landscape. All smart controllers should be programmed using the specified ET or weather sensing equipment, satellite provided ET data, soil moisture sensors, and soil moisture devices as required. Contractor shall provide a controller schedule inside the controller cabinet prior to final turnover of the project to the owner.																											

D:\SWEENEY & ASSOCIATES DROPBOX\DRAWINGS - ORANGE COUNTY\TINA CHEE LANDSCAPE STUDIO\WWII INCARCERATION CAMP MONUMENT\11.01 - WWII SITE IRRIGATION PLAN DWG - 16FT.DWG - PLOTTED BY GWYNER ON 3/24/2025



LEAD CONSULTANT

CHEE SALETTE
ARCHITECT + LANDSCAPE ARCHITECT
180 SOUTH CENTRAL AVENUE, GLENDALE, CA 91204
TEL: 747.240.6026

SUB CONSULTANT

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STAMP

LICENSED ARCHITECT
TINA CHEE
28208
RENEWAL DATE: 6/30/2027
STATE OF CALIFORNIA

REGULATORY APPROVALS

DRAWING ISSUANCE		
NO.	ISSUE	DATE
1	PROGRESS	01/17/2025
2	100% SCHEMATIC DESIGN	01/31/2025
3	25% DESIGN DEVELOPMENT	02/21/2025
4	75% DESIGN DEVELOPMENT	04/25/2025
5	100% DESIGN DEVELOPMENT	10/09/2025
6	100% DESIGN DEVELOPMENT	11/07/2025
7	PLAN CHECK #01	12/23/2025
8	BID SET	03/22/2026

PROJECT NAME

WWII JAPANESE AMERICAN INCARCERATION MONUMENT

4045 190TH STREET
TORRANCE, CA 90504

IRRIGATION DETAILS

PROJECT 2024-16

SCALE N.T.S.

DATE

SHEET NUMBER

LI3.01

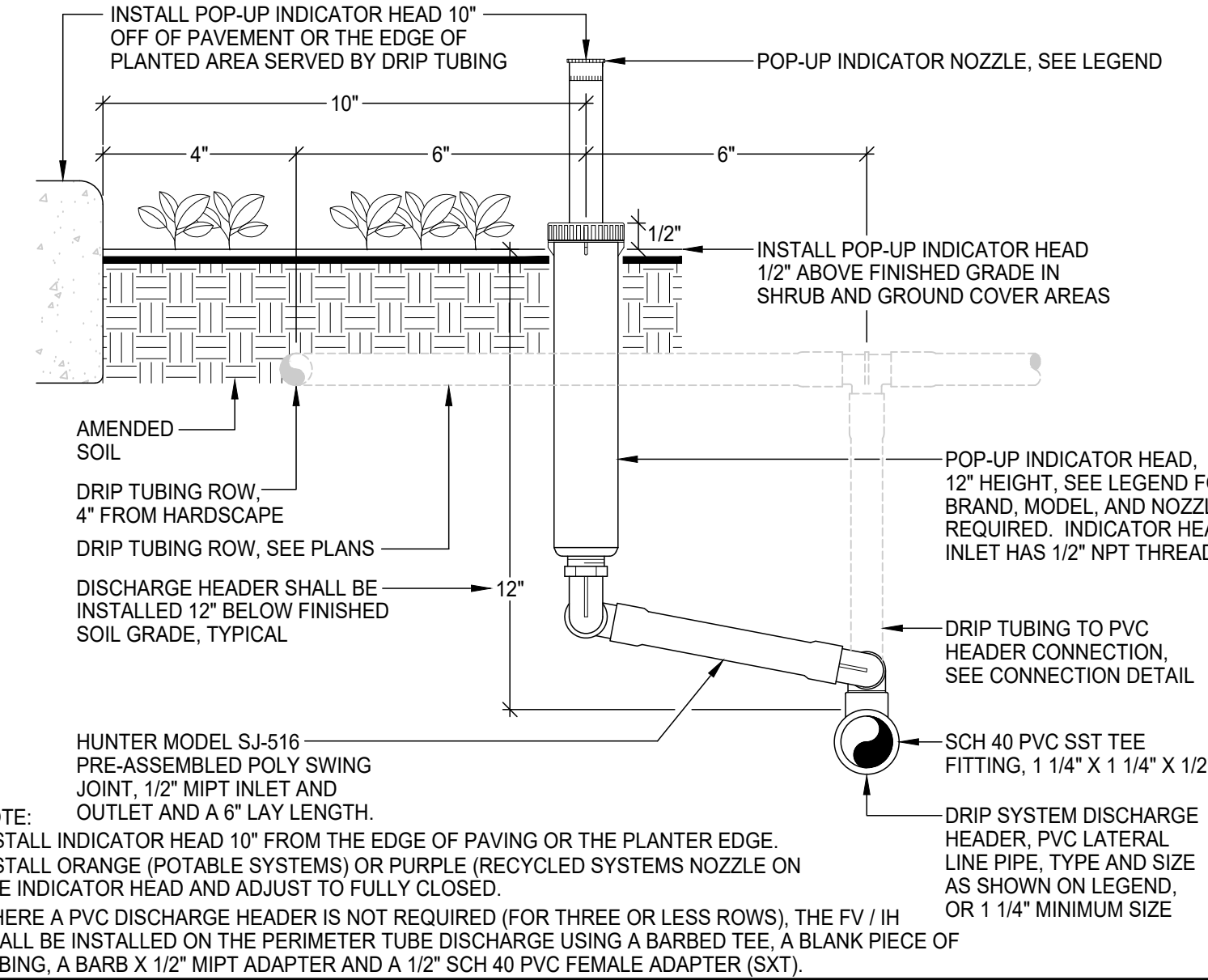
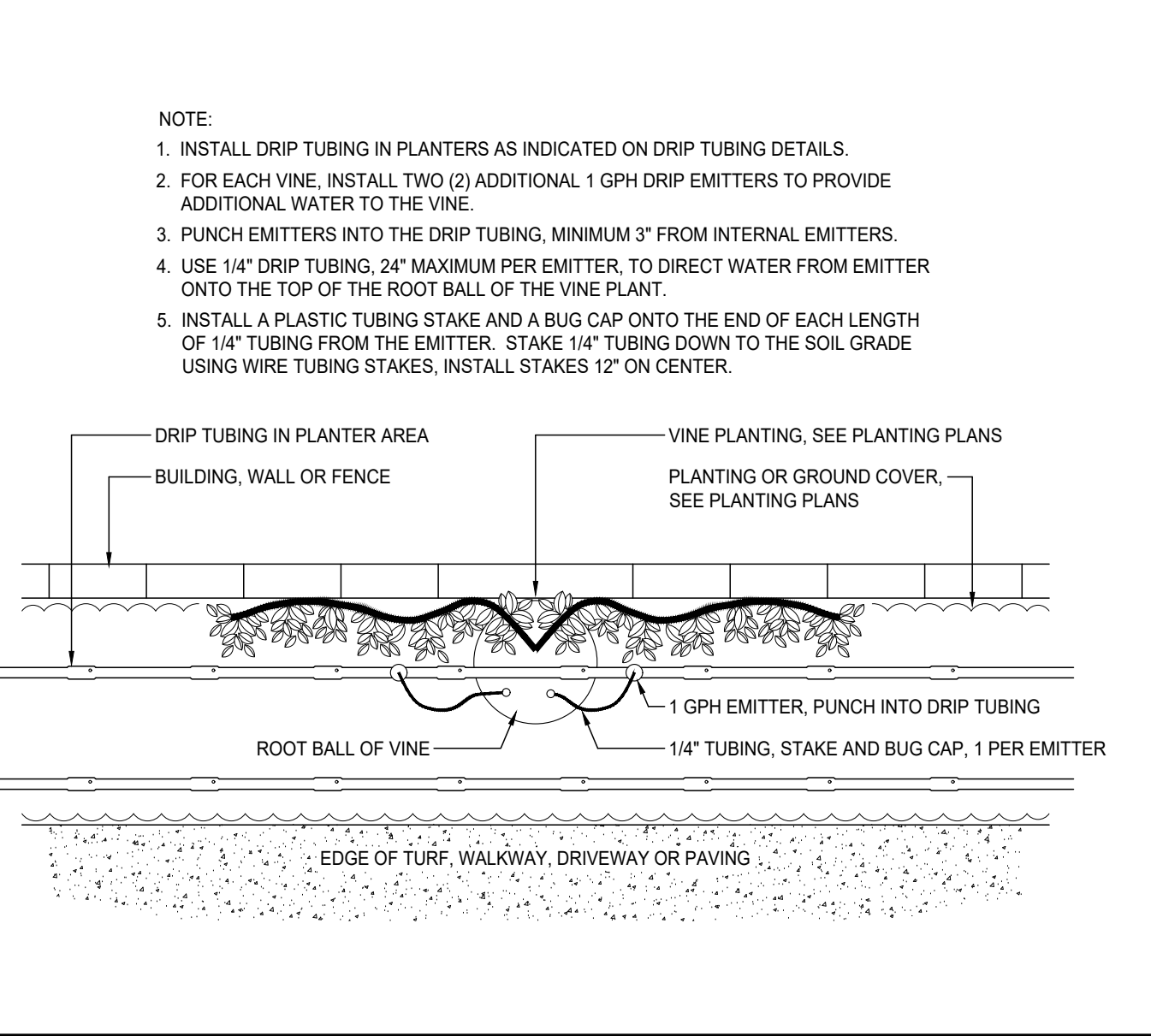
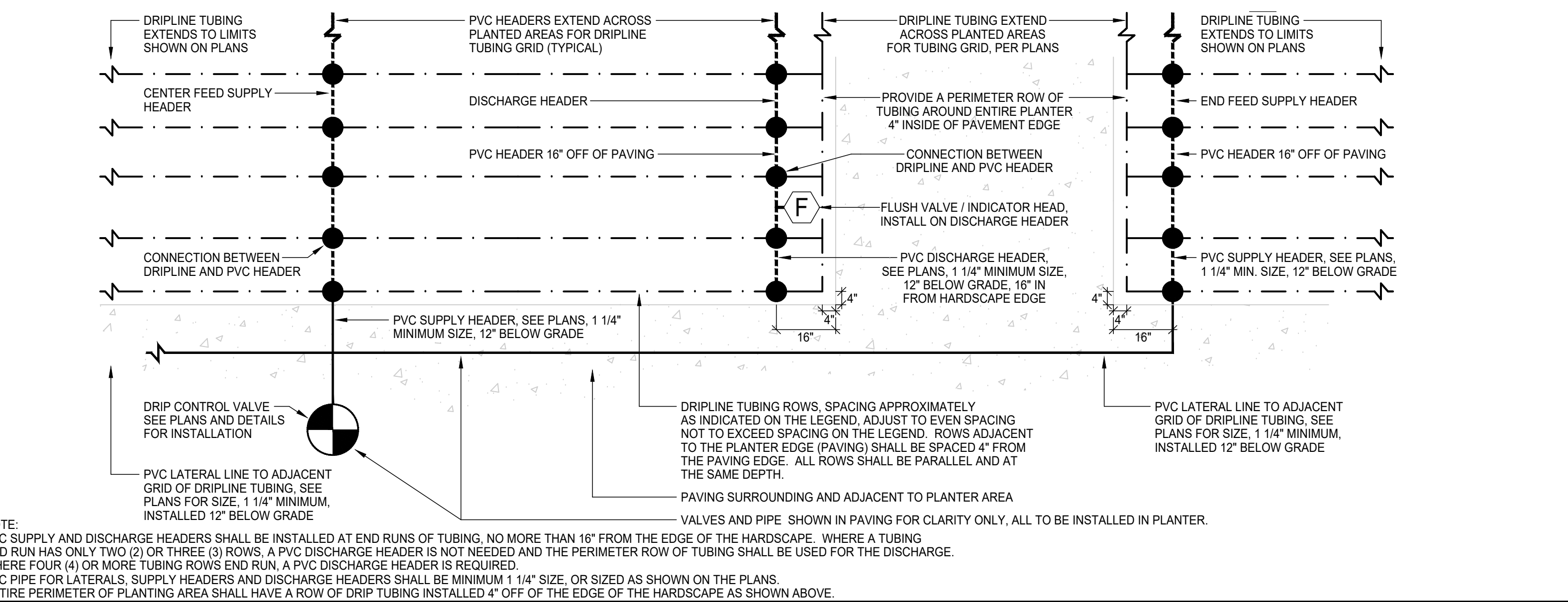
ORIGINAL SIZE: 30"x42" ©CSAO,INC.

A POP-UP SPRAY / BUBBLER HEAD

B TREE BUBBLER LAYOUT

C POP-UP ROTOR HEAD (LARGE RADIUS)

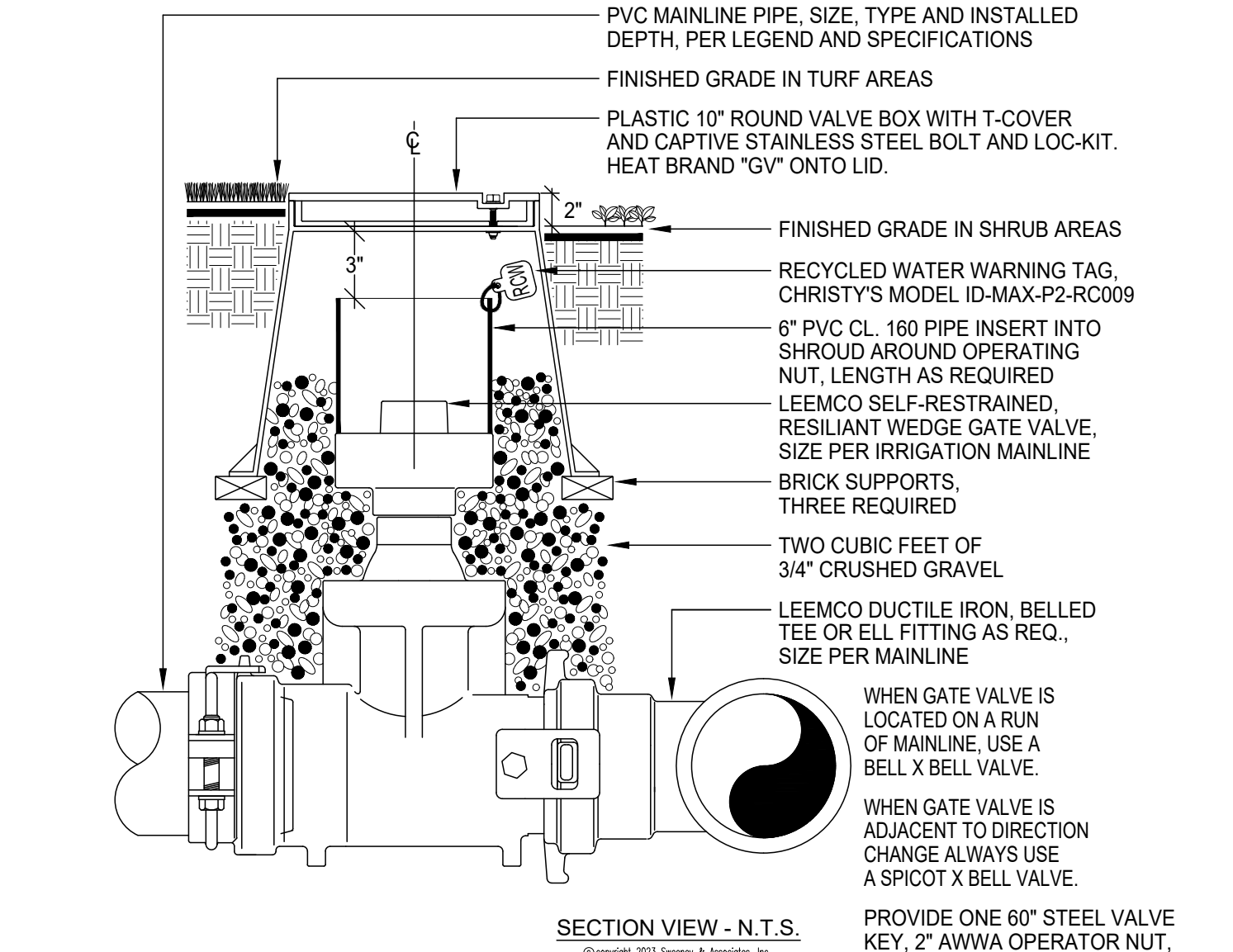
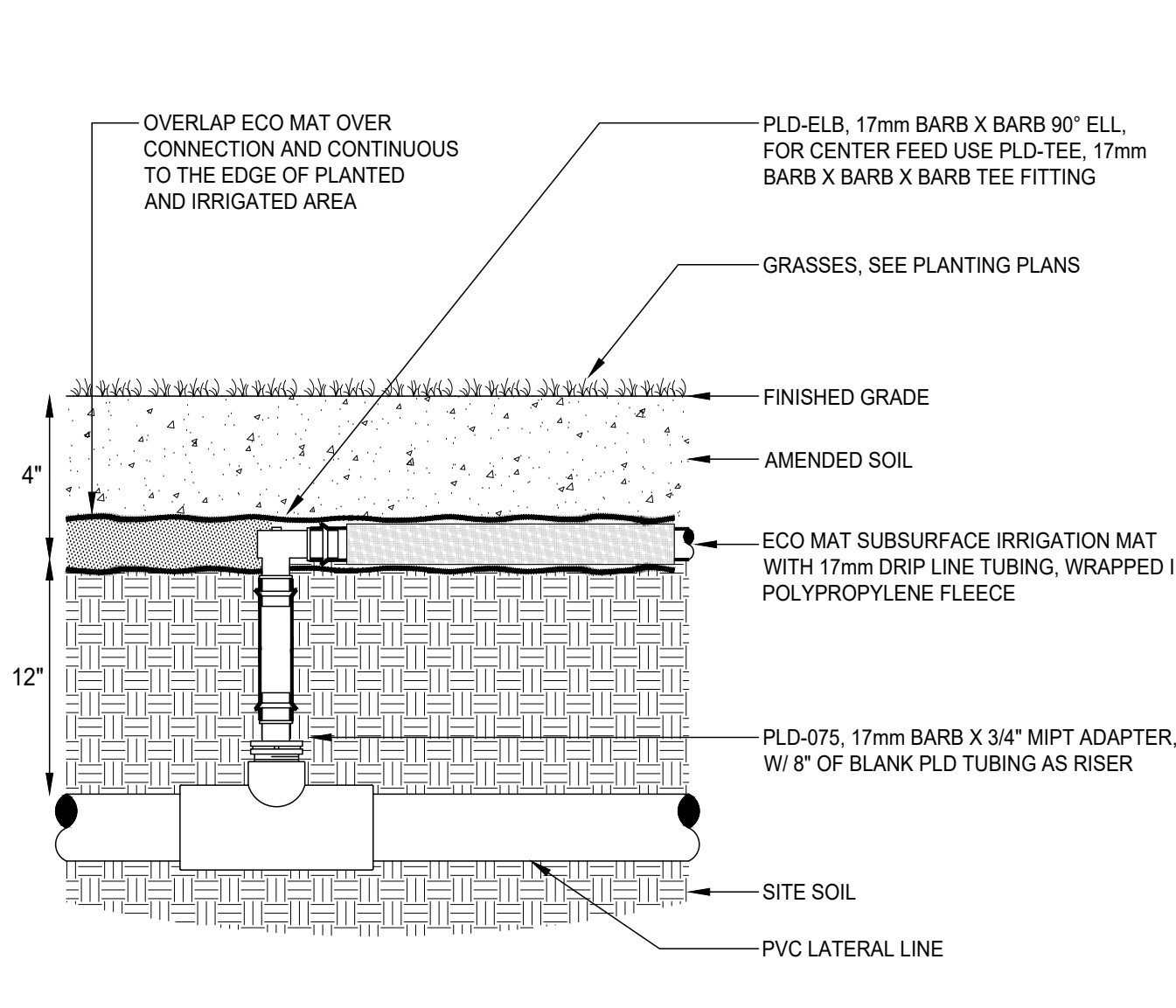
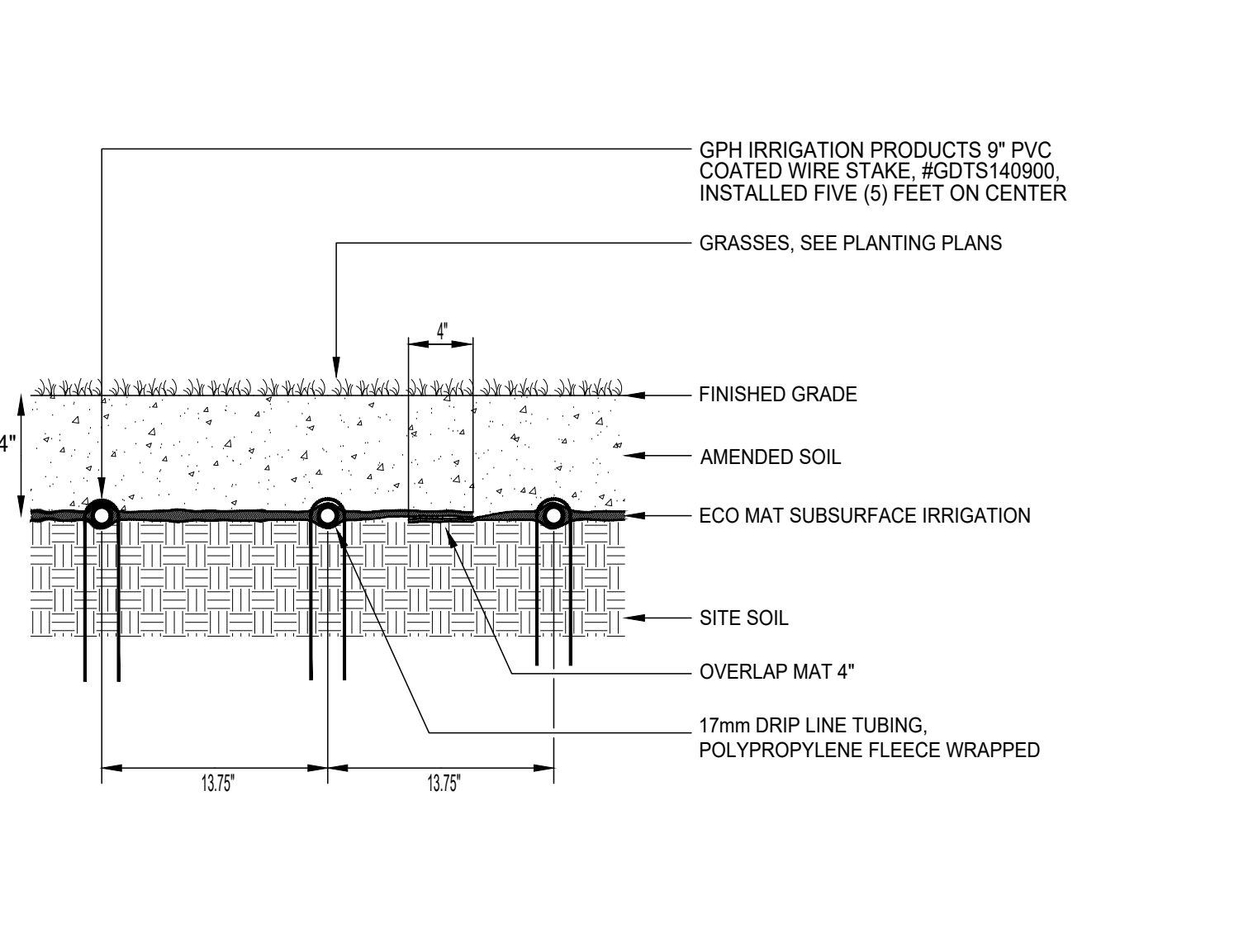
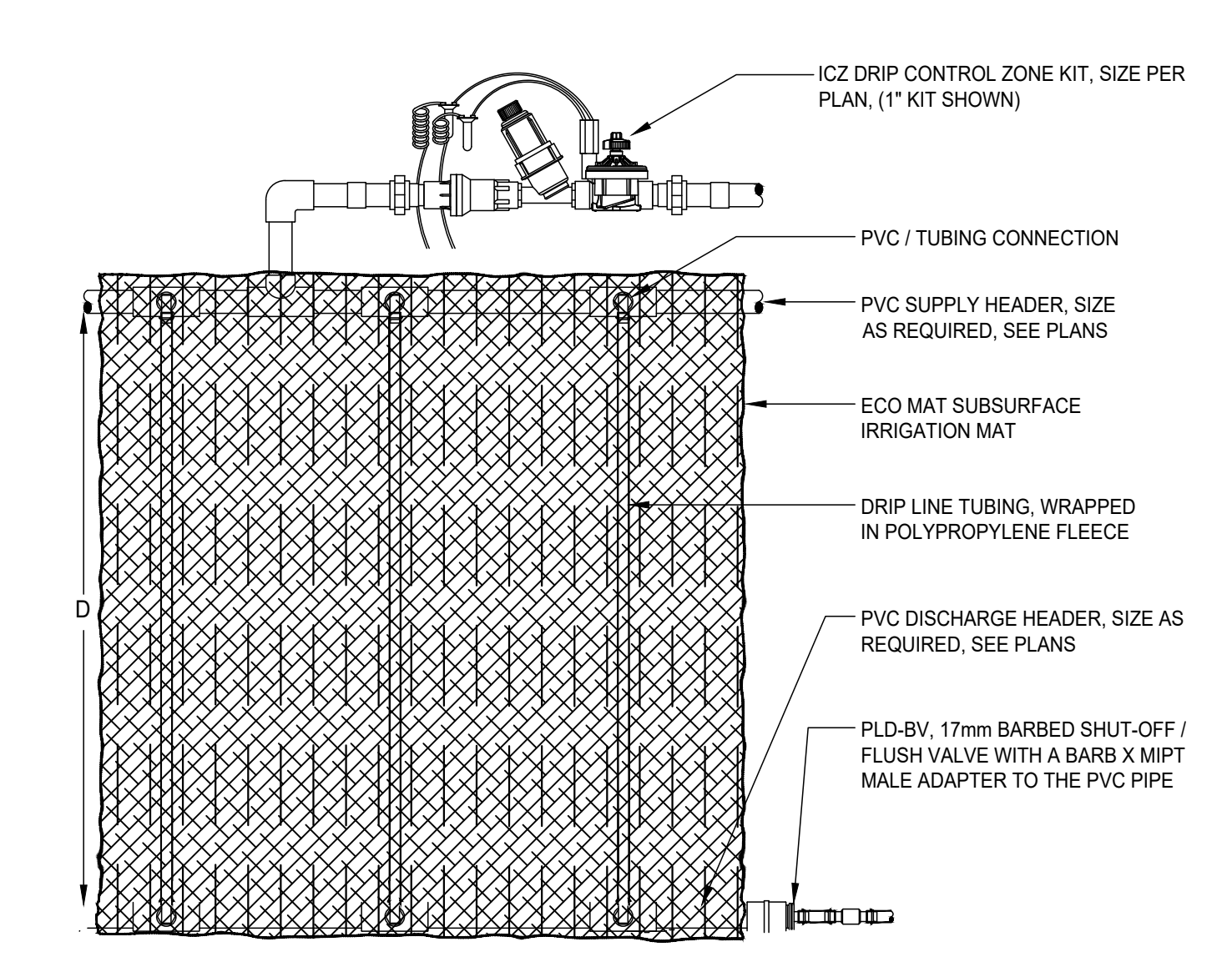
D DRIPLINE TUBING



E DRIP TUBING LAYOUT

F EMITTERS AT VINE PLANTINGS

G DRIP FLUSH VALVE



H ECO MAT DRIP LAYOUT (PLAN)

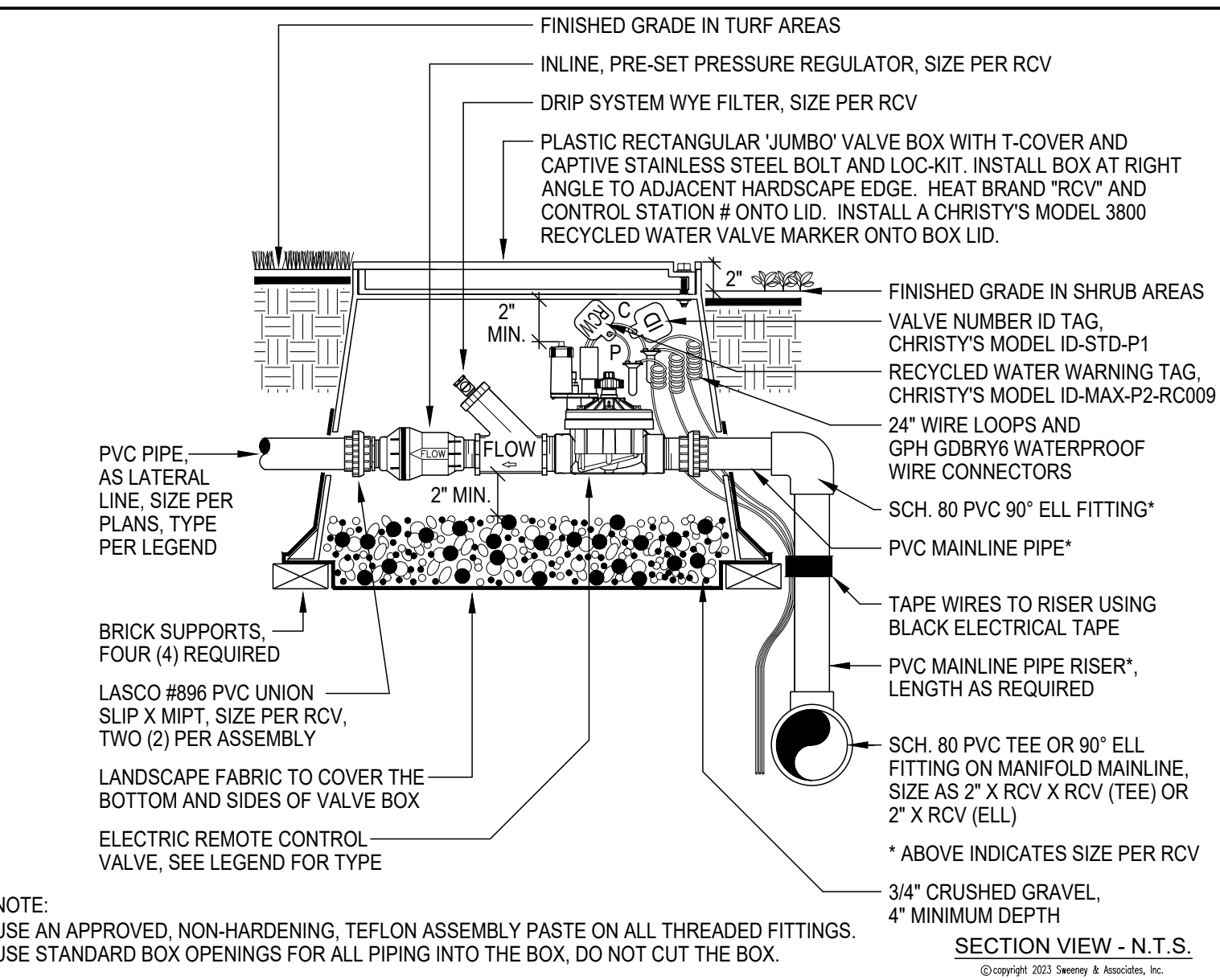
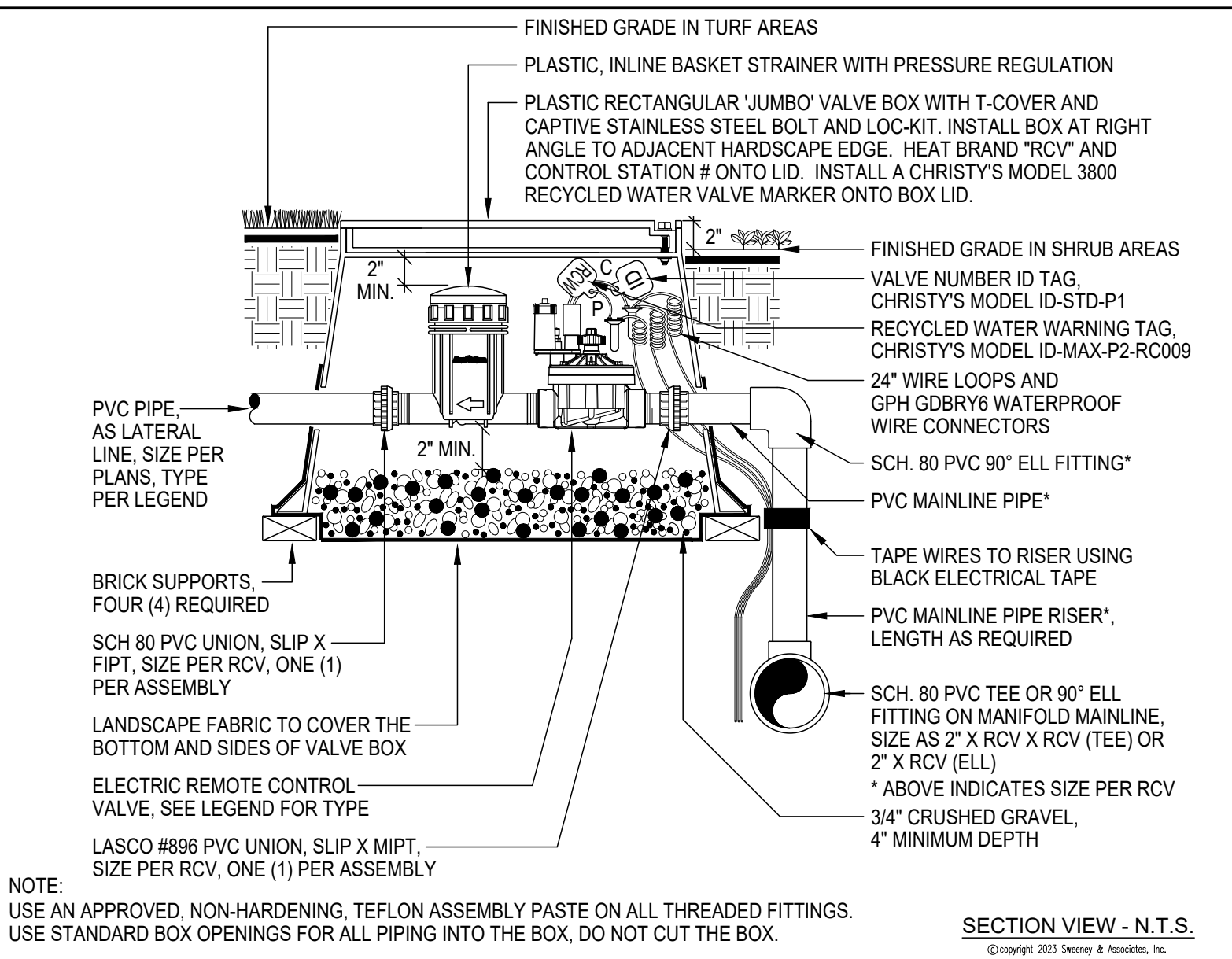
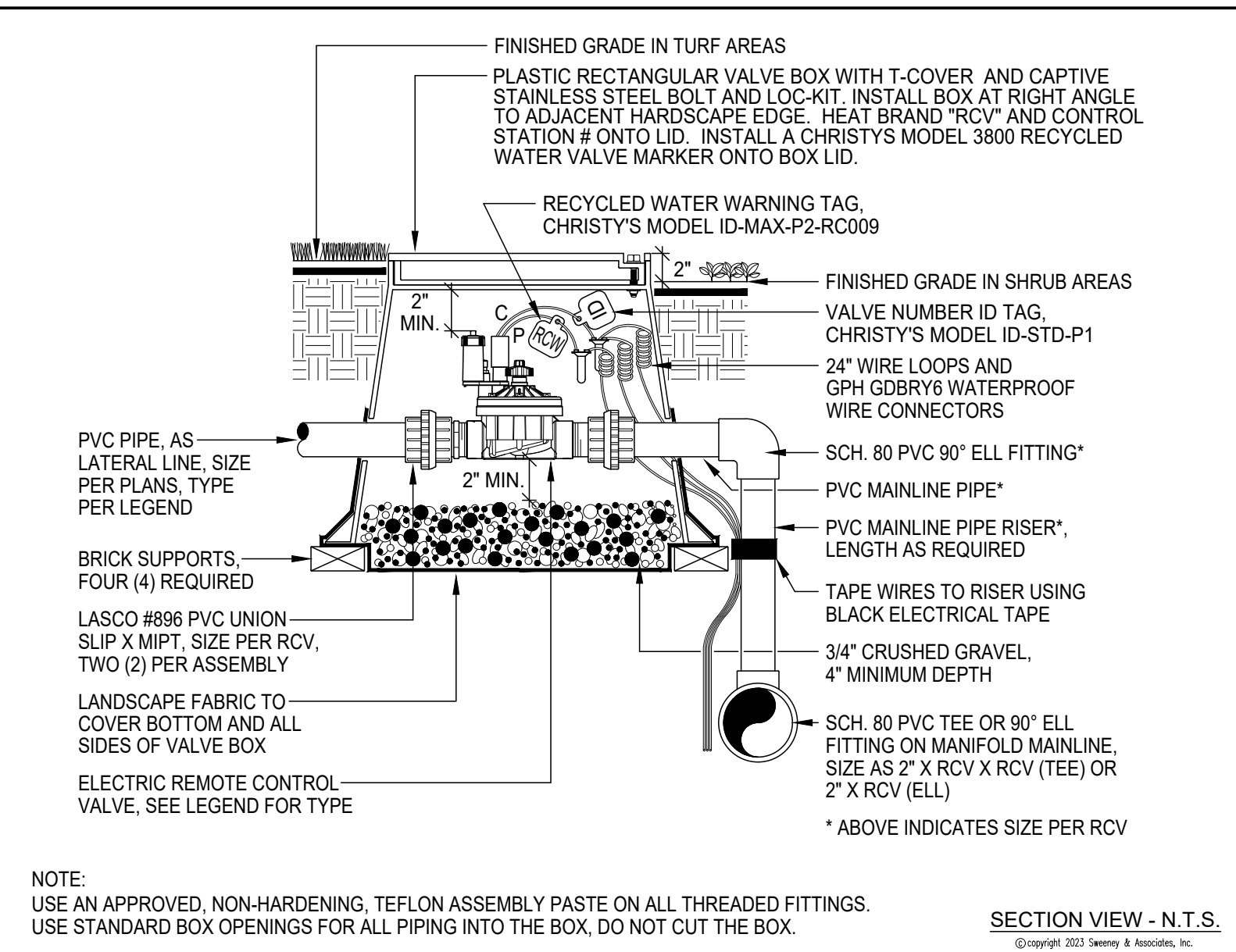
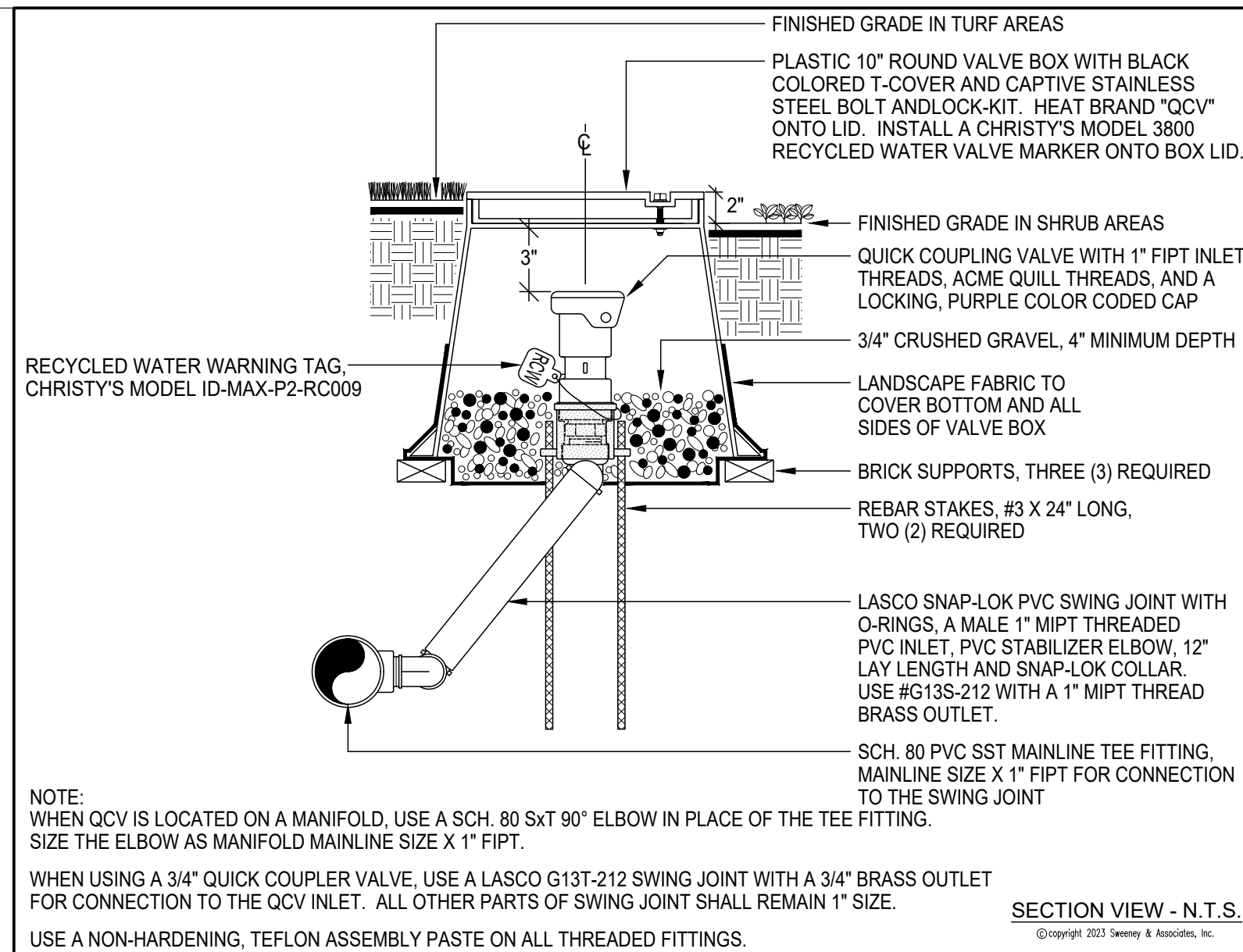
I ECO MAT DRIP LAYOUT (SECTION)

J ECO MAT DRIP CONNECTION

K GATE VALVE

sweeney + associates
IRRIGATION DESIGN AND CONSULTING
38730 Sky Canyon Drive, Suite C
Murietta, CA 92563
e: info@sweeneyassoc.com | (951) 461-6830
w: www.sweeneyassoc.com | (951) 461-6830

I HAVE COMPLIED WITH THE CRITERIA OF THE IRRIGATION GUIDELINES AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN



LEAD CONSULTANT

CHEE SALETTE
ARCHITECT + LANDSCAPE ARCHITECT
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AMERICAN
INCARCERATION
MONUMENT

4045 190TH STREET
TORRANCE, CA 90504

TITLE

IRRIGATION DETAILS

PROJECT
2024-16
SCALE
N.T.S.

DATE _____

SHEET NUMBER

LI3.02

ORIGINAL SIZE: 30"x42"

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sweeney + associates
IRRIGATION DESIGN AND CONSULTING

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w: www.sweeneyassoc.com f: (951) 461-6850

 s+a

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