

### IRRIGATION ZONE CHART

ZONE I.D.	CONTROL STATION	GPM	VALVE SIZE	ZONE TYPE
<b>CONTROLLER 'ALFA'</b> MOTOROLA 'IRRINET' 48 STATION				
AT1	1	69	1-1/2"	4" POP-UP SPRAY HEAD
AT2	2	61	1-1/2"	4" POP-UP SPRAY HEAD
AT3	3	65	1-1/2"	4" POP-UP SPRAY HEAD
AT4	4	66	1-1/2"	4" POP-UP SPRAY HEAD
AT5	5	66	1-1/2"	4" POP-UP SPRAY HEAD
AT6	6	64	1-1/2"	4" POP-UP SPRAY HEAD
AT7	7	64	1-1/2"	4" POP-UP SPRAY HEAD
AT8	8	51	1-1/2"	4" POP-UP SPRAY HEAD
AT9	9	55	1-1/2"	4" POP-UP SPRAY HEAD
AT10	10	36	1"	4" POP-UP SPRAY HEAD
AT11	11	55	1-1/2"	4" POP-UP SPRAY HEAD
AT12	12	55	1-1/2"	4" POP-UP SPRAY HEAD
AT13	13	13	1"	4" POP-UP SPRAY HEAD
AT14	14	25	1"	4" POP-UP SPRAY HEAD
AT15	15	57	1-1/2"	4" POP-UP SPRAY HEAD
AT16	16	57	1-1/2"	4" POP-UP SPRAY HEAD
AT17	17	11	1-1/2"	4" POP-UP SPRAY HEAD
AT18	18	19	1"	4" POP-UP SPRAY HEAD
AT19	19	36	1"	4" POP-UP SPRAY HEAD
AT20	20	55	1-1/2"	4" POP-UP SPRAY HEAD
AT21	21	32	1"	4" POP-UP SPRAY HEAD
AT22	22	11	1"	4" POP-UP SPRAY HEAD
AT23	23	62	1-1/2"	4" POP-UP SPRAY HEAD
AT24	24	56	1-1/2"	4" POP-UP SPRAY HEAD
AT25	25	36	1"	4" POP-UP SPRAY HEAD
AT26	26	35	1"	4" POP-UP SPRAY HEAD
AT27	27	35	1"	4" POP-UP SPRAY HEAD
AS1	28	16	1"	12" POP-UP BUBBLER
AS2	29	36	1"	12" POP-UP BUBBLER
AS3	30	33	1"	12" POP-UP BUBBLER
AS4	31	48	1-1/2"	12" POP-UP BUBBLER
AS5	32	48	1-1/2"	12" POP-UP BUBBLER
AS6	33	49	1-1/2"	12" POP-UP BUBBLER
AS7	34	42	1-1/2"	12" POP-UP BUBBLER
AS8	35	41	1-1/2"	12" POP-UP BUBBLER
<b>CONTROLLER 'BRAVO'</b> MOTOROLA 'SCORPIO V-2' 24 STATION				
BT1	1	16	1"	4" POP-UP SPRAY HEAD
BT2	2	56	1-1/2"	4" POP-UP SPRAY HEAD
BT3	3	25	1"	4" POP-UP SPRAY HEAD
BT4	4	39	1-1/2"	4" POP-UP SPRAY HEAD
BT5	5	21	1"	4" POP-UP SPRAY HEAD
BT6	6	65	1-1/2"	4" POP-UP SPRAY HEAD
BT7	7	23	1"	4" POP-UP SPRAY HEAD
BT8	8	48	1-1/2"	4" POP-UP SPRAY HEAD
BT9	9	45	1-1/2"	4" POP-UP SPRAY HEAD
BS1	10	42	1-1/2"	12" POP-UP BUBBLER
BS2	11	34	1"	12" POP-UP BUBBLER
BS3	12	37	1"	12" POP-UP BUBBLER
BS4	13	38	1"	12" POP-UP BUBBLER
BS5	14	12	1"	12" POP-UP BUBBLER

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ZONE I.D.	CONTROL STATION	GPM	VALVE SIZE	ZONE TYPE
<b>CONTROLLER 'CHARLIE'</b> MOTOROLA 'SCORPIO V-2' 24 STATION				
CT1	1	72	2" (TORO 252)	4" POP-UP SPRAY HEAD
CT2	2	43	1-1/2"	4" POP-UP SPRAY HEAD
CT3	3	43	1-1/2"	4" POP-UP SPRAY HEAD
CT4	4	65	1-1/2"	4" POP-UP SPRAY HEAD
CT5	5	65	1-1/2"	4" POP-UP SPRAY HEAD
CT6	6	65	1-1/2"	4" POP-UP SPRAY HEAD
CT7	7	65	1-1/2"	4" POP-UP SPRAY HEAD
CT8	8	70	2" (TORO 252)	4" POP-UP SPRAY HEAD
CT9	9	36	1"	4" POP-UP SPRAY HEAD
CT10	10	49	1-1/2"	4" POP-UP SPRAY HEAD
CT11	11	25	1"	4" POP-UP SPRAY HEAD
CT12	12	42	1"	4" POP-UP SPRAY HEAD
CT13	13	32	1-1/2"	4" POP-UP SPRAY HEAD
CT14	14	34	1"	4" POP-UP SPRAY HEAD
CS1	15	6	1-1/2"	12" POP-UP BUBBLER
CS2	16	40	1"	12" POP-UP BUBBLER
CS3	17	35	1"	12" POP-UP BUBBLER
CS4	18	40	1-1/2"	12" POP-UP BUBBLER
CS5	19	13	1"	12" POP-UP BUBBLER
<b>CONTROLLER 'DAVID'</b> MOTOROLA 'SCORPIO V-2' 24 STATION				
DT1	1	51	1-1/2"	4" POP-UP SPRAY HEAD
DT2	2	55	1-1/2"	4" POP-UP SPRAY HEAD
DT3	3	51	1-1/2"	4" POP-UP SPRAY HEAD
DT4	4	52	1-1/2"	4" POP-UP SPRAY HEAD
DT5	5	30	1"	4" POP-UP SPRAY HEAD
DT6	6	25	1"	4" POP-UP SPRAY HEAD
DT7	7	39	1"	4" POP-UP SPRAY HEAD
DT8	8	48	1-1/2"	4" POP-UP SPRAY HEAD
DT9	9	14	1"	4" POP-UP SPRAY HEAD
DS1	10	54	1-1/2"	12" POP-UP BUBBLER
DS2	11	64	1-1/2"	12" POP-UP BUBBLER
DS3	12	50	1-1/2"	12" POP-UP BUBBLER
DS4	13	42	1-1/2"	12" POP-UP BUBBLER
DS5	14	44	1-1/2"	12" POP-UP BUBBLER
DS6	15	28	1"	12" POP-UP BUBBLER
DS7	16	20	1"	12" POP-UP BUBBLER
<b>CONTROLLER 'ECHO'</b> MOTOROLA 'SCORPIO V-2' 24 STATION				
ET1	1	40	1-1/2"	4" POP-UP SPRAY HEAD
ET2	2	48	1-1/2"	4" POP-UP SPRAY HEAD
ET3	3	48	1-1/2"	4" POP-UP SPRAY HEAD
ET4	4	33	1"	4" POP-UP SPRAY HEAD
ET5	5	44	1-1/2"	4" POP-UP SPRAY HEAD
ET6	6	37	1"	4" POP-UP SPRAY HEAD
ET7	7	18	1"	4" POP-UP SPRAY HEAD
ET8	8	56	1-1/2"	4" POP-UP SPRAY HEAD
ET9	9	62	1-1/2"	4" POP-UP SPRAY HEAD
ET10	10	28	1"	4" POP-UP SPRAY HEAD
ET11	11	48	1-1/2"	4" POP-UP SPRAY HEAD
ET12	12	37	1"	4" POP-UP SPRAY HEAD
ES1	13	8	1"	12" POP-UP BUBBLER
ES2	14	65	1-1/2"	12" POP-UP BUBBLER
ES3	15	34	1"	12" POP-UP BUBBLER
ES4	16	36	1"	12" POP-UP BUBBLER
ES5	17	21	1"	12" POP-UP BUBBLER

### IRRIGATION ZONE CHART

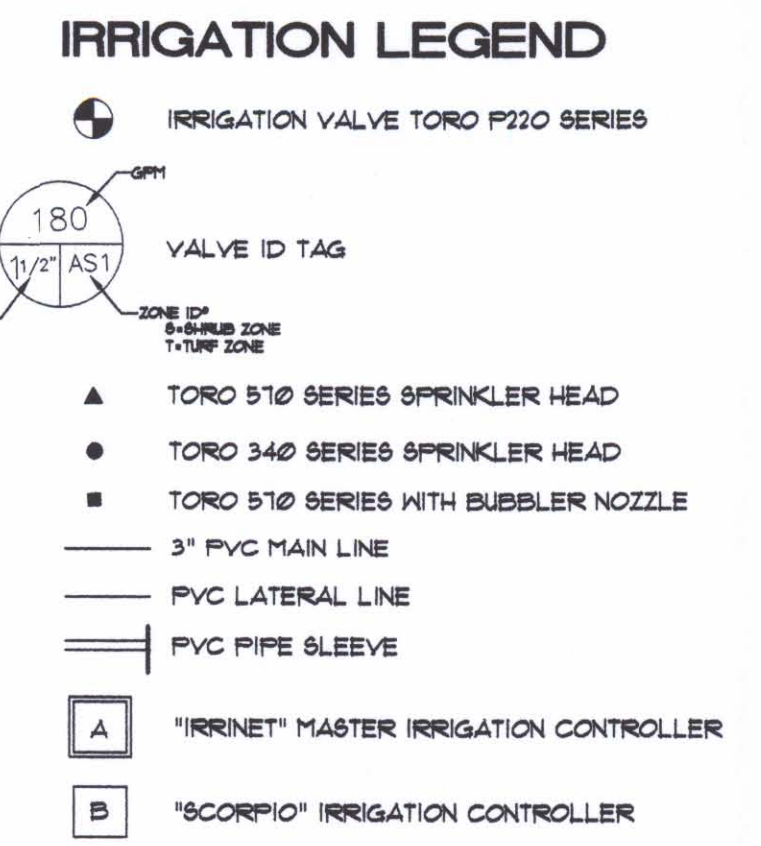
ZONE I.D.	CONTROL STATION	GPM	VALVE SIZE	ZONE TYPE
<b>CONTROLLER 'FOXTROT'</b> MOTOROLA 'SCORPIO V-2' 24 STATION				
FT1	1	64	1-1/2"	4" POP-UP SPRAY HEAD
FT2	2	65	1-1/2"	4" POP-UP SPRAY HEAD
FT3	3	51	1-1/2"	4" POP-UP SPRAY HEAD
FT4	4	65	1-1/2"	4" POP-UP SPRAY HEAD
FT5	5	62	1-1/2"	4" POP-UP SPRAY HEAD
FT6	6	65	1-1/2"	4" POP-UP SPRAY HEAD
FT7	7	62	1-1/2"	4" POP-UP SPRAY HEAD
FT8	8	24	1"	4" POP-UP SPRAY HEAD
FT9	9	62	1-1/2"	4" POP-UP SPRAY HEAD
FT10	10	49	1-1/2"	4" POP-UP SPRAY HEAD
FT11	11	58	1-1/2"	4" POP-UP SPRAY HEAD
FB1	12	40	1-1/2"	12" POP-UP BUBBLER
FB2	13	30	1"	12" POP-UP BUBBLER
FB3	14	22	1"	12" POP-UP BUBBLER

### MATERIALS LIST

QUANTITY	UNIT	ITEM
1921	EACH	TORO 510 SERIES SPRAY HEAD
926	EACH	TORO 340 SERIES STREAM ROTOR
1244	EACH	TORO 510 SERIES 12" POP-UP BUBBLERS
96	EACH	TORO P220 PRESSURE REGULATING VALVES
2	EACH	TORO 252 SERIES VALVES
4	EACH	TORO 220 BRASS MASTER REMOTE VALVES
4	EACH	FEBCO 880 SERIES BACKFLOW PREVENTER
1	EACH	CAMPBELL SCIENTIFIC WEATHERSTATION
4	EACH	DATA INDUSTRIAL FLOW SENSOR
24	EACH	24 STATION SCORPIO CONTROLLERS
1	EACH	48 STATION IRRINET CONTROLLER
4	EACH	Master Remote Control Valve (A, B, C, D & E/F)

\*QUANTITIES ARE FOR INFORMATION ONLY CONTRACTOR SHALL VERIFY

BID ITEM: IRRIGATION LUMP SUM

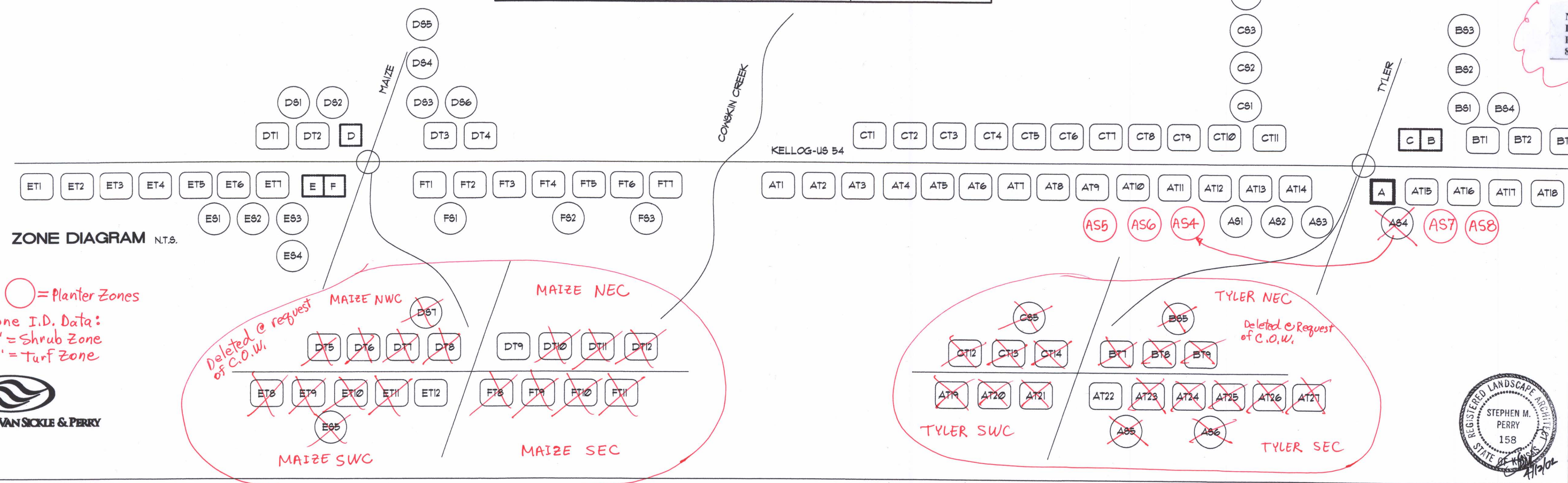


- ### IRRIGATION NOTES:
- ALL IRRIGATION WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN COMPLIANCE WITH ALL LOCAL CODES AND PROJECT SPECIFICATIONS.
  - IRRIGATION CONTRACTOR SHALL FIELD VERIFY WATER PRESSURE AND VOLUME AT EACH POINT OF CONNECTION PRIOR TO IRRIGATION INSTALLATION. NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IF PRESSURE DOWN STREAM OF METER IS LESS THAN 6.85 PSI.
  - IRRIGATION CONTRACTOR SHALL COORDINATE UTILITY LOCATIONS WITH KANSAS ONE CALL PRIOR TO INSTALLATION.
  - COORDINATE INSTALLATION OF PVC PIPE SLEEVES WITH GRADING/CONCRETE CONTRACTORS.
  - LOCATE ALL MAIN LINE AND ASSOCIATED VALVES A MINIMUM OF 5' BEHIND BACK OF CURB WHERE SPACE PERMITS. LOCATE ALL CONTROLLERS BACKFLOW PREVENTERS AND OTHER ABOVE GRADE EQUIPMENT A MINIMUM OF 25' BEHIND BACK OF CURB.
  - LOCATE ALL SPRINKLER HEADS 4-6" AWAY FROM CURBS OR CONCRETE EDGES.
  - INSTALL ONLY ONE VALVE PER VALVE BOX.
  - PLACE ISOLATION VALVES ON THE MAIN ON THE UPSTREAM SIDE OF ALL IRRIGATION SLEEVES THAT CROSS UNDER ROADWAYS.
  - CAUTION: DO NOT EXCEED 160 GPM INSTANTANEOUS FLOWS FROM ONE POINT OF CONNECTION.
  - OVERSPRAY ONTO DRIVING SURFACES WILL NOT BE PERMITTED.
  - ALL SPRAY HEADS INSTALLED ALONG BACK OF CURB SHALL BE 510Z PRX SERIES HEADS
  - USE IRRIGATION LINE SIZES ON DRAWINGS. LATERAL LINES EXITING VALVES SHALL BE SIZED ONE NOMINAL SIZE LARGER THAN THE VALVE SIZE TYPICAL.
  - LATERAL LINES THAT HAVE NO SIZE INDICATED SHALL BE 1" LINES.

**ADDENDUM #2**

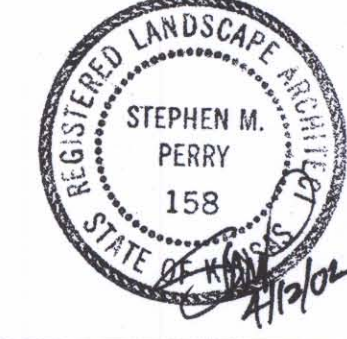
Irrigation System: On Sheet No. 872, in the material list for irrigation Delete, 4 Each Toro 220 Brass Master Remote Valves and 4 Each Data Industrial Flow Sensor. Add 4 Each Master Remote Control Valve; 3" Aard hydrometer, normally open model. This revision adds master remote control valves that have a built in flow sensor and deletes separate master remote valves and flow sensors.

NOTE: FOR ACTUAL LOCATION OF IRRIGATION ITEMS, SEE IRRIGATION RECORD DRAWINGS, SHEET NO. 871A TO 871N.



DATE	
BY	
REFERENCES NOTED	
REFERENCES CHECKED	

DSNR: OPER: DWR SCALE: 1:500  
 F: 9934/15146 BY: DWR



1	Revisions	By	Date
CITY OF WICHITA			
IRRIGATION DETAILS			
SEDGWICK COUNTY			
Professional Engineering Consultants, P.A. 303 S. TOPEKA • WICHITA, KANSAS 67202 316-262-2691 • FAX 316-262-3003			
Designed by	SMP	Checked by	
Drawn by	DWR	Date	April, 2002
		Job No.	97362