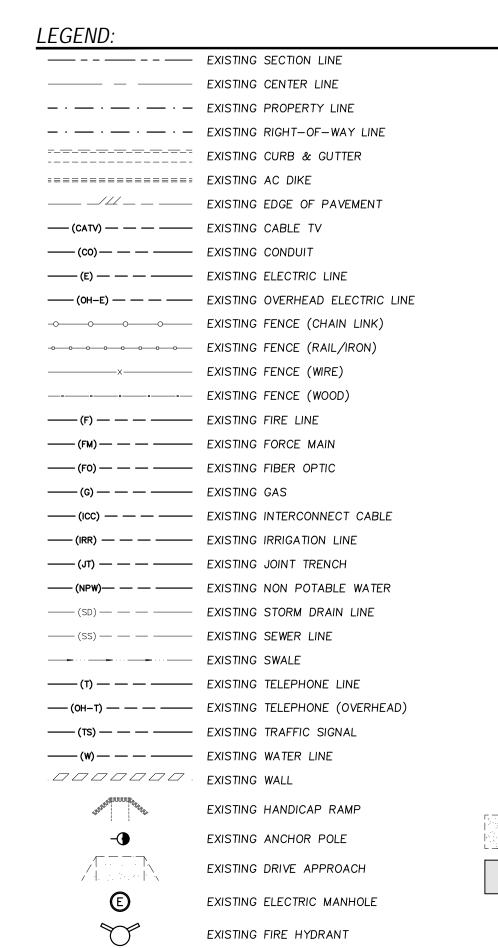
UNDERGROUND SERVICE ALERT



Know what's below. Call before you dig.

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

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS, DEPTH AND DIMENSIONS OF STRUCTURES ARE BELIEVED TO BE REASONABLY CORRECT, BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUED AS A REPRESENTATION THAT SUCH STRUCTURES WILL, IN ALL CASES, BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL OF THE STRUCTURES WHICH MAY BE ENCOUNTERED. CONTRACTOR SHALL NOTIFY "USA" (UNDERGROUND SERVICE ALERT) AT 811, TWO WORKING DAYS BEFORE COMMENCING EXCAVATION AND ALL UTILITY AUTHORITIES OR UTILITY COMPANIES HAVING POSSIBLE INTEREST IN THE WORK, OF CONTRACTOR'S INTENTION TO EXCAVATE PROXIMATE TO EXISTING FACILITIES, AND CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITIES



EXISTING IRRIGATION RISER EXISTING IRRIGATION SPRINKLER EXISTING IRRIGATION VENT PIPE

EXISTING MAIL BOX EXISTING SANITARY SEWER EXISTING SANITARY SEWER MANHOLE EXISTING SIGN

EXISTING STORM DRAIN MANHOLE EXISTING STORM DRAIN GRATE INLET EXISTING STORM DRAIN INLET EXISTING STREET LIGHT

EXISTING STREET LIGHT (POST) EXISTING STREET LIGHT BOX EXISTING TELEPHONE MANHOLE EXISTING TELEPHONE RISER

EXISTING TREE EXISTING UTILITY POLE EXISTING UTILITY BOX

EXISTING UNDERGROUND MARKER EXISTING WATER HOSE BIB EXISTING WATER METER

EXISTING WATER PUMP EXISTING WATER VALVE

EXISTING WATER WELL EXISTING CONCRETE

EXISTING A.C. PAVEMENT

FUTURE BENCH

PROPOSED TRASH RECEPTACLE

ABBREV	/IATIONS:		
BLDG	BUILDING	PE	PEDESTRIAN EASEMENT
С	CONCRETE	PL	PROPERTY LINE
CATV	CABLE TELEVISION	PP	POWER POLE
CL	CENTER LINE	PUE	PUBLIC UTILITY EASEMENT
CR	CROWN	R/W	RIGHT-OF-WAY LINE
DI	STORM DRAIN DROP INLET	SDMH	STORM DRAIN MANHOLE
DIKE	AC DIKE	SF	SPLIT FLOW
ELB	ELECTRIC BOX	SL	SECTION LINE
EP	EDGE OF PAVEMENT	SSMH	SANITARY SEWER MANHOLE
EX. OR (E)	EXISTING	SW	SIDEWALK
FD	FINISH DIRT	TC	TOP OF CURB
FF	FINISH FLOOR	TD	TOP OF DIKE
FH	FIRE HYDRANT	TELB	TELEPHONE BOX
FL	FLOWLINE	TELR	TELEPHONE RISER
FNC	FENCE	TOE	TOE OF SLOPE
GB	GRADE BREAK	TOP	TOP OF SLOPE
GW	GUY WIRE	TP	TELEPHONE POLE
HP	HINGE POINT	UM	UNDERGROUND MARKER
LE	LANDSCAPE EASEMENT	VG	VALLEY GUTTER
LIP	LIP OF GUTTER	VP	VENT PIPE/STAND PIPE
OG	ORIGINAL GROUND	WM	WATER METER
Р	PAVEMENT	WV	WATER VALVE
PC	POINT ON CURVE	(XXX.XX)	EXISTING GRADE

EXISTING GAS VALVE

EXISTING GUYED WIRE

EXISTING IRRIGATION BOX

CITY OF KERMAN

DEPARTMENT OF PUBLIC WORKS MICHAEL BARAJAS - DIRECTOR PLANS FOR

KERMAN NORTHWEST PARK

GATEWAY BLVD GATEWAY BLVD LEL MAR AVE CALIFORNIA AVE CALIFORNIA AVE

COMMERCE WAY _

GENERAL NOTES:

- I. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF KERMAN IMPROVEMENT STANDARDS MANUAL AND ANY APPLICABLE SECTIONS OF THE 2015 CALTRANS STANDARD SPECIFICATIONS AND THE PROJECT SPECIFICATIONS.
- 2. SIDEWALKS SHALL NOT BE POURED UNTIL ALL WATER METER BOXES AND SERVICES HAVE BEEN INSPECTED BY THE CITY OF KERMAN AND ANY NECESSARY STREET SIGNS HAVE BEEN INSTALLED. NOTIFY THE CITY OF KERMAN, 24 HOURS PRIOR TO POURING.
- 3. TEMPORARY TRENCH RESURFACING TO BE A MINIMUM 4" COLD MIX.
- 4. ANY EXISTING SECTION CORNER OR PROPERTY CORNER MONUMENTS DAMAGED BY THIS PROJECT SHALL BE RESET TO THE SATISFACTION OF THE CITY ENGINEER.
- 5. ALL PROPOSED AND EXISTING VALVES (CAP AND LID), MANHOLES, AND CLEANOUTS AFFECTED BY THIS WORK SHALL BE ADJUSTED TO GRADE AS NECESSARY AND INCLUDED IN THIS WORK.
- 6. ANY DIRT TRACKED ONTO ANY CITY STREET FROM THIS PROJECT SHALL BE SWEPT UP AT THE END OF EACH WORK DAY TO THE SATISFACTION OF THE CITY ENGINEER.
- 7. DUST CONTROL SHALL BE PROVIDED AS REQUIRED BY THE CITY ENGINEER.
- 8. COMPANIES HAVING POSSIBLE INTEREST IN THE WORK OF THE CONTRACTOR'S INTENTION TO EXCAVATE PROXIMATE TO EXISTING FACILITIES AND THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITIES IN THE WORK AREA. THE CONTRACTOR SHALL NOTIFY U.S.A. TWO (2) DAYS PRIOR TO BEGINNING ANY EXCAVATION.
- 9. THE COSTS OF ALL REPEAT TESTING REQUIRED FOR ACCEPTANCE OF WORK SHALL BE FULLY BORNE BY THE CONTRACTOR.
- 10. ALL CURB AND GUTTER SHALL BE WATER TESTED UNDER THE DIRECTION AND IN THE PRESENCE OF THE CITY INSPECTOR PRIOR TO ANY STREET OPERATION.
- 11. THE CONTRACTOR SHALL OBTAIN WRITTEN AUTHORIZATION FROM ANY ADJACENT PROPERTY OWNER GIVING PERMISSION TO ENTER HIS/HER PROPERTY FOR PURPOSES OF CONSTRUCTING THE IMPROVEMENTS DELINEATED ON THESE PLANS AND TRANSITIONS THERETO. THE CONTRACTOR SHALL PROVIDE THE CITY WITH A COPY PRIOR TO START OF WORK.
- 12. ALL STORM DRAIN FACILITIES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF KERMAN REQUIREMENTS AND THESE PLANS.
- 13. NO WATER MAIN VALVES SHALL BE CLOSED BY THE CONTRACTOR EXCEPT IN THE CASE OF A BROKEN MAIN. THE CONTRACTOR SHALL NOTIFY THE CITY IMMEDIATELY AFTER A LINE IS BROKEN.
- 14. HOT MIX ASPHALT (HMA) 2" THICKNESS OR LESS SHALL BE TYPE "A", 1/2" MAX. AGGREGATE, PER STATE OF CALIFORNIA STANDARD SPECIFICATIONS, SECTION 39. WHERE THE ASPHALT THICKNESS IS MORE THAN 2", THE PAVING SHALL BE PLACED IN TWO COURSES. THE FIRST COURSE SHALL BE 34" MAX. AGGREGATE AND THE FINAL COURSE SHALL BE 1/2" MAX. AGGREGATE.
- 15. AGGREGATE BASE SHALL BE "CLASS II", 34" MAX., PER STATE OF CALIFORNIA STANDARD SPECIFICATIONS, SECTION 26.
- 16. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR APPROVAL BY THE CITY ENGINEER PRIOR TO ANY CONSTRUCTION IN PUBLIC RIGHTS-OF-WAY.
- 17. COMPACTION TESTS SHALL BE WITHIN TWO PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT TO BE CONSIDERED AS PASSING.
- 18. DURING PROJECT CONSTRUCTION, ALL STREETS SHALL BE KEPT CLEAR OF ANY CONSTRUCTION OR LANDSCAPING DEBRIS AND SHALL NOT BE USED AS A STORAGE AREA FOR EQUIPMENT,
- 19. THE CITY ENGINEER OR HIS REPRESENTATIVE WILL HAVE THE PRIMARY INSPECTION RESPONSIBILITY AND WILL CONDUCT DAY TO DAY INSPECTIONS. THE CONTRACTOR SHALL NOTIFY THE CITY PUBLIC WORKS DEPARTMENT AT (559) 846-9343, 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
- 20. REPLACE ALL EXISTING TRAFFIC STRIPING AND PAVEMENT MARKINGS DAMAGED DURING
- 21. CONTRACTOR SHALL RESTORE, IN-KIND, ALL IMPROVEMENTS DISTURBED BY CONSTRUCTION.
- 22. EXISTING UTILITY LOCATIONS ARE FROM TOPOGRAPHIC SURVEY DATA AND RECORDED DATA HOWEVER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXACT LOCATIONS AND DEPTHS. CONTRACTOR SHALL NOTIFY THE CITY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- 23. CONTACT THE CITY ENGINEER WHEN INSTALLING ANY SIGNS. THE CITY ENGINEER SHALL BE INFORMED OF ALL LOCATIONS, TYPES, DATE OF INSTALLATION, ETC.
- 24. A PRECONSTRUCTION MEETING AND WALK-THROUGH IS REQUIRED FOR THIS PROJECT. CONTRACTOR SHALL WALK THE ENTIRE PROJECT WITH CITY STAFF TO REVIEW PRE-EXISTING DAMAGED AREAS TO AVOID CLAIMS FROM SURROUNDING PROPERTY OWNERS.
- 25. CONTRACTOR SHALL REPAIR/REPLACE ANY LANDSCAPE IRRIGATION SYSTEM COMPONENTS DAMAGED OR DESTROYED DURING CONSTRUCTION. CONTRACTOR SHALL REPLACE ANY LAWN (WITH EQUIVALENT TYPE SOD) AND/OR LANDSCAPE PLANTINGS (NOT SPECIFIED TO BE REMOVED ON THE PLANS) DAMAGED OR DESTROYED DURING CONSTRUCTION. THE COST OF REPAIR OR REPLACEMENT OF LANDSCAPE IRRIGATION SYSTEMS, LAWNS, AND LANDSCAPE PLANTINGS SHALL BE INCLUDED IN THE BID ITEM FOR MISCELLANEOUS STREET FACILITIES AND OPERATIONS AND NO ADDITIONAL PAYMENT SHALL BE MADE THEREFORE.

SHEET INDEX:

SHEET NO. DESCRIPTION

<u>GENERAL</u>

G1.0 COVER SHEET

<u>CIVIL</u>

C2.0 GRADING PLAN

WATER POLLUTION CONTROL PLAN

LANDSCAPE

- SITE FINISHES LEGEND, NOTES, & PLAN
- IRRIGATION LEGEND AND NOTES
- IRRIGATION PLAN
- MWELO CALCS AND IRRIGATION SCHEDULE PLANTING LEGEND, NOTES, & PLAN
- CONSTRUCTION DETAIL
- IRRIGATION DETAILS
- IRRIGATION DETAIL
- IRRIGATION AND PLANTING DETAILS

BENCHMARK:

CITY OF KERMAN - TBM 07-02

CHISELED SQUARE IN TOP OF CURB, EAST RETURN NORTHEAST CORNER KEARNEY & SISKIYOU

ELEVATION = 212.29' U.S.G.S. DATUM

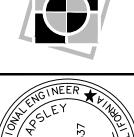
APPROVED BY:

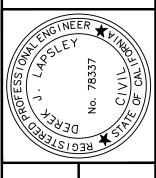
JERRY C. JONES RCE 76803 CITY ENGINEER

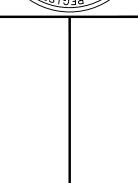
MICHAEL BARAJAS DIRECTOR OF PUBLIC WORKS GI

Ref. & Rev.





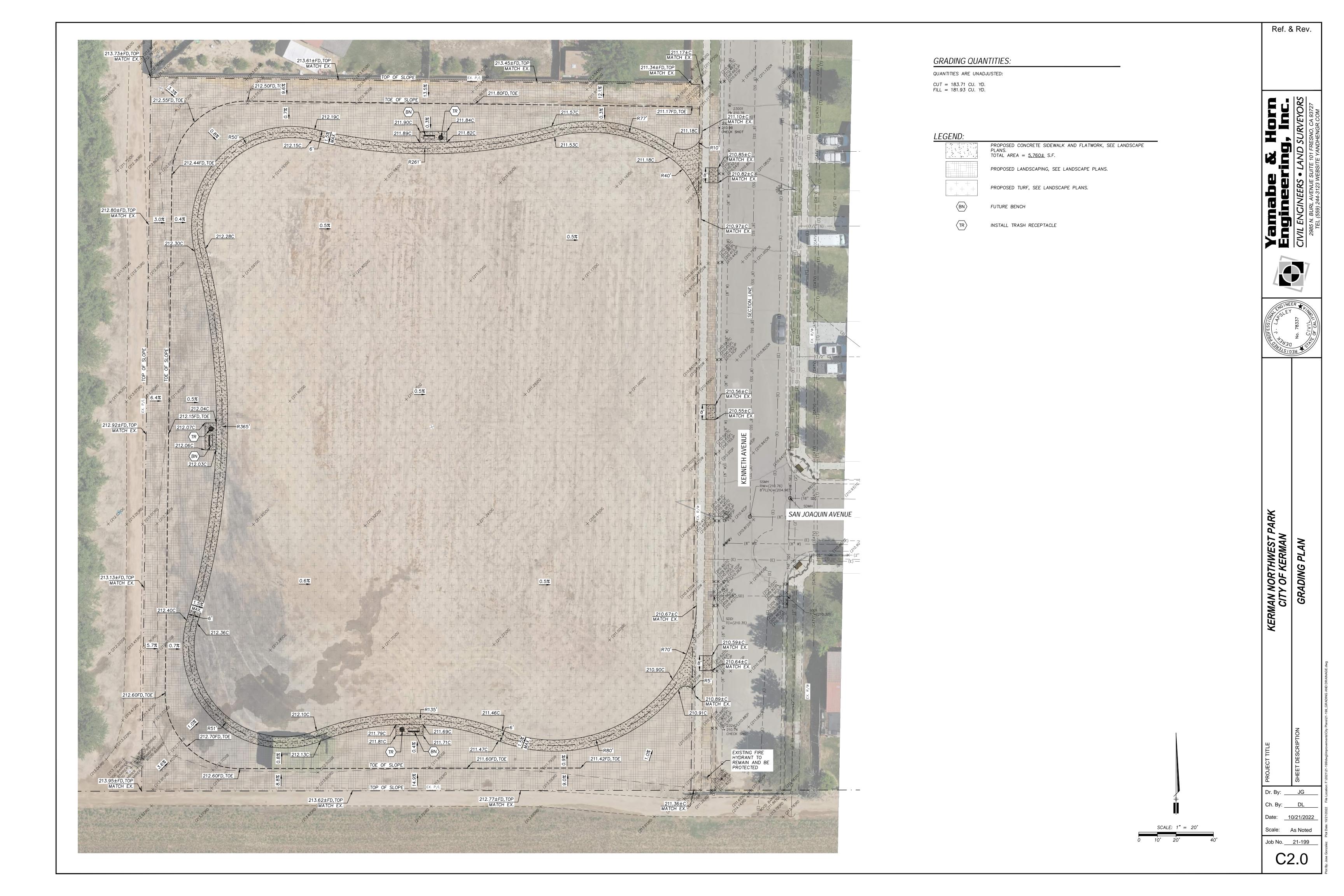


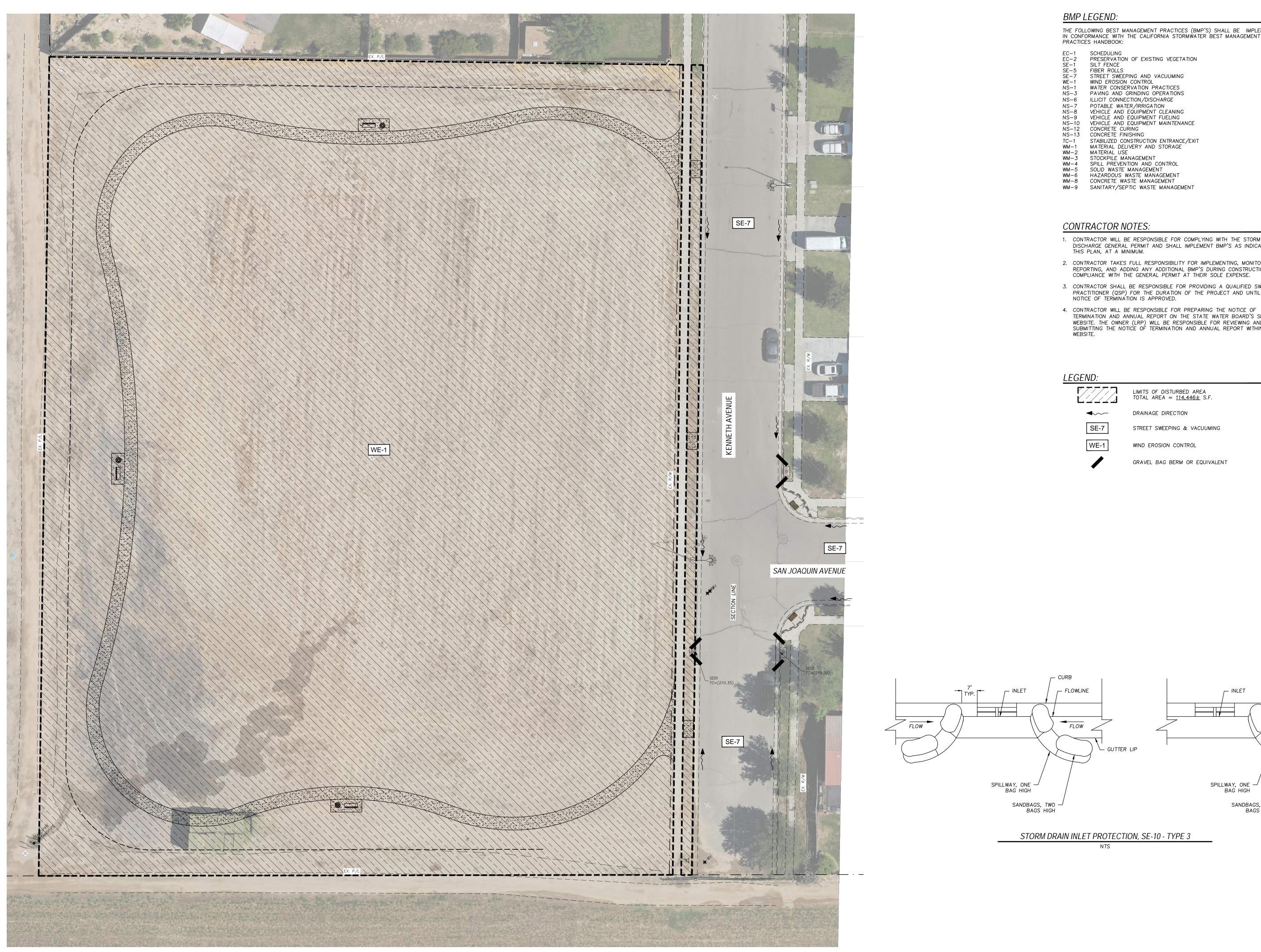


SHE

Dr. By: JG Ch. By: DL Date: 10/21/2022

Scale: As Noted Job No. <u>21-199</u>



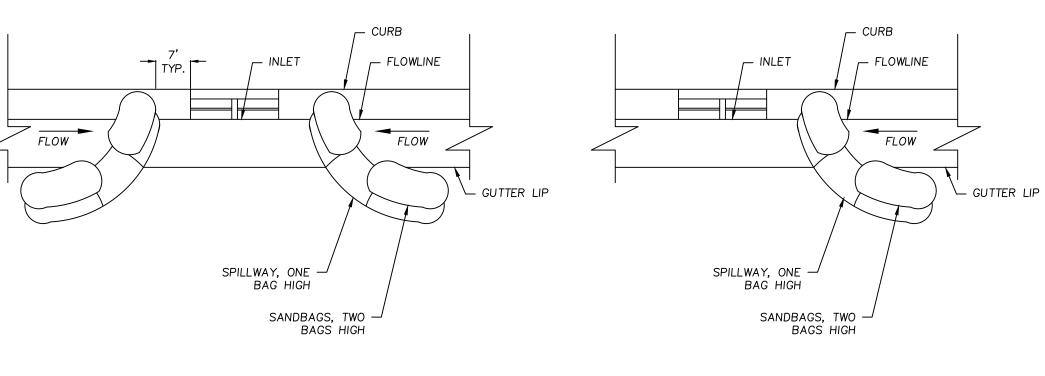


THE FOLLOWING BEST MANAGEMENT PRACTICES (BMP'S) SHALL BE IMPLEMENTED IN CONFORMANCE WITH THE CALIFORNIA STORMWATER BEST MANAGEMENT

- 1. CONTRACTOR WILL BE RESPONSIBLE FOR COMPLYING WITH THE STORM WATER DISCHARGE GENERAL PERMIT AND SHALL IMPLEMENT BMP'S AS INDICATED ON
- 2. CONTRACTOR TAKES FULL RESPONSIBILITY FOR IMPLEMENTING, MONITORING, REPORTING, AND ADDING ANY ADDITIONAL BMP'S DURING CONSTRUCTION FOR COMPLIANCE WITH THE GENERAL PERMIT AT THEIR SOLE EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A QUALIFIED SWPPP PRACTITIONER (QSP) FOR THE DURATION OF THE PROJECT AND UNTIL THE NOTICE OF TERMINATION IS APPROVED.
- TERMINATION AND ANNUAL REPORT ON THE STATE WATER BOARD'S SMARTS WEBSITE. THE OWNER (LRP) WILL BE RESPONSIBLE FOR REVIEWING AND SUBMITTING THE NOTICE OF TERMINATION AND ANNUAL REPORT WITHIN SAID

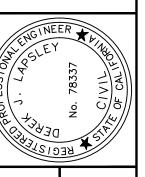
DRAINAGE DIRECTION

GRAVEL BAG BERM OR EQUIVALENT



Ref. & Rev.



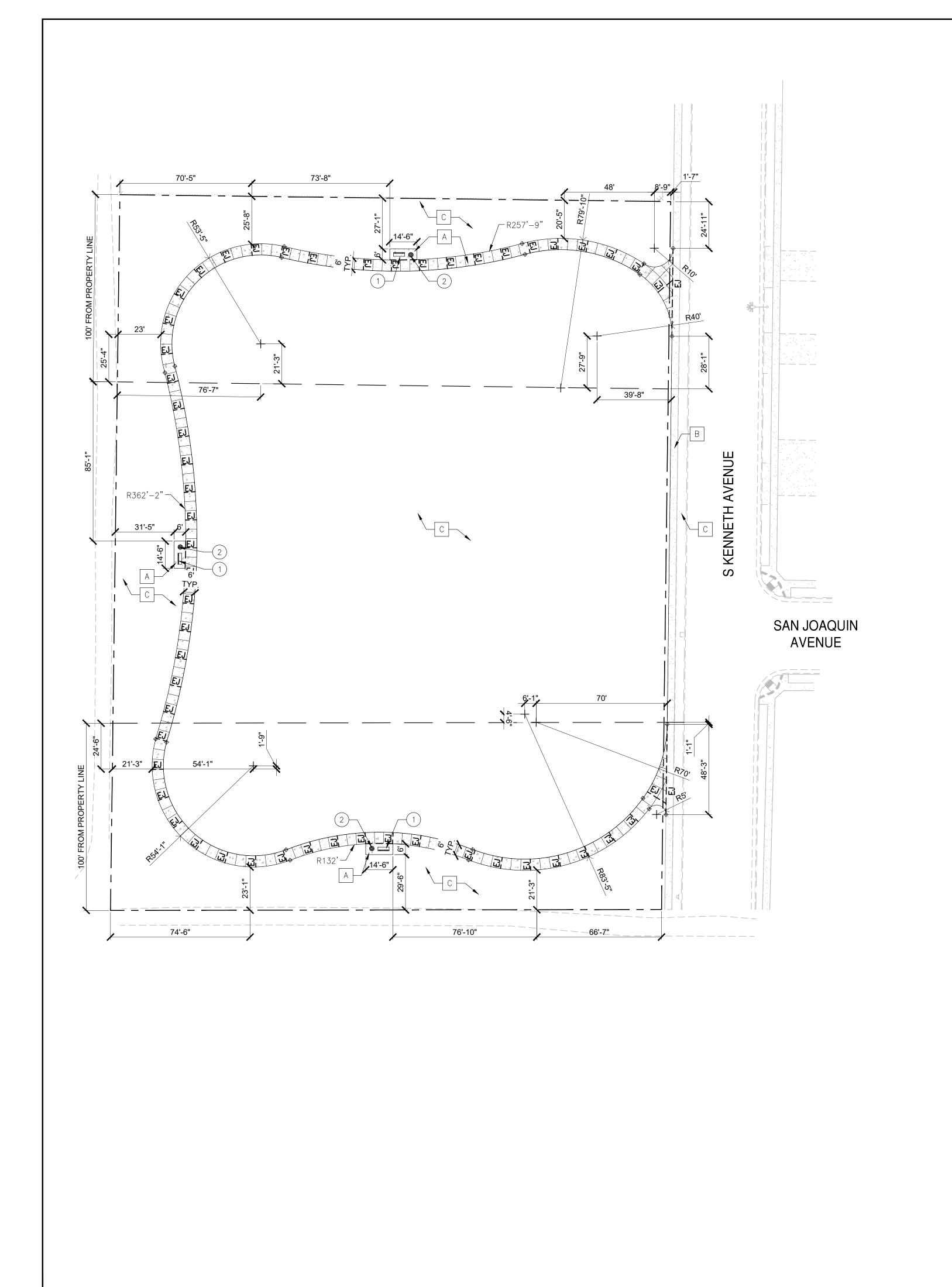


WATER POLLUTION CONTROL PLAN

Date: 10/21/2022

Job No. 21-199

C3.0



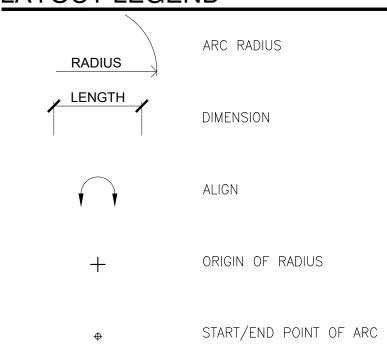
SIT	E FINISH SCHEDULE				
FINISH	DESCRIPTION	COLOR	QUANTITY	SUPPLIER / INFORMATION	DET REF.
A	CONCRETE FLATWORK	STANDARD GRAY	5,651 S.F.	MEDIUM BROOM FINISH / DAVIS COLORS / DAVISCOLORS.COM / P: (800) 356-4848	1&2/L4.0
В	EXISTING CONCRETE FLATWORK				
С	PLANTING AREA, SEE PLANTING PLAN, SHEET L3.0				

SITE FEATURE SCHEDULE

ITEM	DESCRIPTION / MODEL	COLOR	QUANTITY	MANUFACTURER / SUPPLIER / INFORMATION	DET REF.
1	BENCH (FUTURE)	TBD	3	BY OTHERS	_
(2)	TRASH RECEPTACLE	BY OTHERS	3	BY OTHERS	_

REFERENCE KEY	REFERENCE KEY
SCHEDULE KEY	CONCRETE JOINT LEGEND
SITE FINISH	EJ = EXPANSION JOINT SJ = CONTROL JOINT CJ = COLD JOINT

LAYOUT LEGEND



Ref. & Rev.





FINSHES LEGEND, NOTES, &

(100% SUBMITTAL)

NOT FOR CONSTRUCTION

0 15 30 SCALE: 1" = 30' Job No. 21-199

GENERAL IRRIGATION NOTES

- . ANY AND ALL PORTIONS OF THIS WORK SHALL BE CONSTRUCTED IN COMPLIANCE WITH ALL APPLICABLE RULES AND REGULATIONS AS SET FORTH BY LOCAL MUNICIPALITIES, STATE AND NATIONAL AGENCIES. IN THE EVENT THERE IS A CONFLICT WITH THESE PLANS AND THE AGENCIES STATED ABOVE, THE GOVERNING BODY'S REGULATIONS SHALL
- 2. IRRIGATION SHALL BE CONSISTENT WITH THE CITY WATER CONSERVATION REQUIREMENTS (LMC 17.92.060) AND THE STATE WATER EFFICIENT LANDSCAPE ORDINANCE (AB 1881).
- PRIOR TO BIDDING AND COMMENCEMENT OF SITE WORK,
 THE CONTRACTOR SHALL BECOME FAMILIAR WITH/AND
 EXAMINE CONDITIONS OF THE PROJECT SITE, VERIFYING
 LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND
 SERVICES. LOCATIONS OF ITEMS SHOWN ON THESE PLANS
 ARE ONLY APPROXIMATIONS. ANY DISCREPANCIES
 DISCOVERED SHALL BE REPORTED TO THE LANDSCAPE
 ARCHITECT/OWNER. FAILURE TO REPORT DISCREPANCIES
 TO THE LANDSCAPE ARCHITECT/OWNER BEFORE
 COMMENCEMENT OF SITE WORK IMPLIES ACCEPTANCE OF
 SITE CONDITIONS AND COSTS ASSOCIATED WITH CORRECTING
 IRRIGATION LAYOUTS.
- 4. ANY EXISTING SITE FEATURES, GRADE CHANGES, OR SITE PLAN DESIGN CHANGES NOT SPECIFICALLY ADDRESSED ON THESE PLANS, (OR UNKNOWN CONDITIONS THAT WERE NOT APPARENT DURING THE DESIGN PROCESS) THAT WILL IMPACT INSTALLATION OR OPERATING OF IRRIGATION SYSTEMS IN ANY WAY, SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT/OWNER PRIOR TO COMMENCEMENT OF SITE WORK.
- 5. CONTRACTOR SHALL INSTALL IRRIGATION EQUIPMENT PER DETAILS AND SPECIFICATIONS. ALL IRRIGATION EQUIPMENT REQUIRED FOR PROJECT COMPLETION BUT NOT DETAILED ON THESE PLANS SHALL BE INSTALLED PER LOCAL AND STATE CODES AND MANUFACTURER'S WRITTEN INSTALLATION RECOMMENDATIONS.
- 6. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FOR SUCCESSFUL COMPLETION OF PROJECT PRIOR TO COMMENCEMENT OF WORK.
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PROJECT RELATED ENGINEERING DRAWINGS PRIOR TO COMMENCEMENT OF WORK.

 8. THE CONTRACTOR SHALL REPAIR REPLACE OR
- 8. THE CONTRACTOR SHALL REPAIR, REPLACE, OR COMPENSATE OWNER FOR ALL ITEMS DAMAGED BY THEIR WORK.
- 9. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE INSTALLATION EFFORTS WITH THOSE OF OTHER TRADES TO AVOID COSTLY DELAYS AND ERRORS.

INSPECTION

- 1. CONTACT CITY OF **KERMAN**, 48HRS PRIOR TO TEST TO SCHEDULE ALL IRRIGATION INSPECTIONS. REQUIRED TESTING:

 A. <u>PRESSURE TEST</u>: MAINLINE SHALL HOLD 120 PSI MIN. FOR 8 HOURS. IF LEAKS OCCUR, REPLACE FAULTY COMPONENTS AND RE—TEST. CONTRACTOR SHALL PROVIDE MAINLINE & WIRE AS—BUILT'S TO LANDSCAPE ARCHITECT/OWNER PRIOR TO BACKFILLING TRENCH AFTER PRESSURE TEST IS COMPLETE.
- B. COVERAGE TEST: COVERAGE TEST SHALL BE PERFORMED PRIOR TO INSTALLATION OF ANY PLANT MATERIAL. IRRIGATION AUDIT SHALL BE PERFORMED AT THIS POINT, BY CERTIFIED IRRIGATION AUDITOR. CONTRACTOR SHALL PROVIDE RESULTS TO LANDSCAPE ARCHITECT/OWNER AND MAKE ALL NECESSARY CORRECTIONS PRIOR TO PLANTING. FAILURE TO DO SO SHALL MAKE ALL REQUIRED COSTS ASSOCIATED WITH ADJUSTING IRRIGATION THE CONTRACTOR'S RESPONSIBILITY.

POINT OF CONNECTION NOTES 1. CONTRACTOR SHALL INVESTI

- CONTRACTOR SHALL INVESTIGATE AND DETERMINE THE POINT OF CONNECTION LOCATION. IF DIFFERENT THAN SHOWN ON THESE PLANS THIS SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT.

 THE IRRIGATION SYSTEM AS SHOWN WITHIN THESE PLANS
- HAS BEEN DESIGNED BASED ON OPERATING PRESSURES OF 35 PSI AND MAXIMUM FLOW DEMANDS OF 26.5 GPM. THE CITY OF KERMAN REPORTS THAT STATIC WATER PRESSURES AT THE SITE WILL BE APPROXIMATELY 40 PSI.

 3. THE CONTRACTOR SHALL PERFORM PRESSURE TESTS AT
- THE POINT OF CONNECTION TO CONFIRM ACTUAL SITE PRESSURE LEVELS. ANY DISCREPANCIES BETWEEN INFORMATION ON THESE PLANS AND THAT OF EXISTING SITE CONDITIONS OR MANUFACTURER DATA SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT. FAILURE TO CONFIRM POC INFORMATION RESULTING IN REQUIRED CHANGES, DUE TO LOW PRESSURE OR VOLUME, WILL RESULT IN OWNER DIRECTED REVISIONS AT NO ADDITIONAL COST TO THE OWNER.

CONTROLLER ASSEMBLY NOTES

- 1. CONTROLLER LOCATION SHOWN ON DRAWINGS IS AN APPROXIMATE LOCATION. CONTRACTOR SHALL CONFIRM LOCATION OF CONTROLLER WITH OWNER PRIOR TO CONTROLLER INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ELECTRICAL CONNECTIONS BETWEEN THE 120 VOLT POWER SOURCE TO THE CONTROLLER, VALVES, AND ADDITIONAL IRRIGATION EQUIPMENT. FAILURE TO OBTAIN APPROVAL OF CONTROLLER ASSEMBLY LOCATION PRIOR TO INSTALLATION WILL RESULT IN OWNER DIRECTED REVISIONS
- AT NO ADDITIONAL COST TO THE OWNER.

 2. A LAMINATED, WATERPROOF, LEGIBLE, CHART OF THE IRRIGATION SYSTEM, NOT EXCEEDING 11"X17", SHALL BE PROVIDED TO THE OWNER AND ONE ADHERED TO THE INSIDE COVER OF THE CONTROLLER. ALL VALVES AND THEIR RESPECTIVE COVERAGE AREAS SHALL BE IDENTIFIED WITH SEPARATE AND DISTINCT COLORS.

OVERHEAD SPRAY AND ROTOR NOTES

- ALL HEADS SHALL INCLUDE A FACTORY INSTALLED DRAIN CHECK VALVE TO PREVENT LOW HEAD DRAINAGE.
 ALL HEADS SHALL INCLUDE A FACTORY INSTALLED PRESSURE REGULATOR. SEE LEGEND FOR SPECIFIED PRESSURE LEVELS OF INDIVIDUAL HEADS.
- 3. ALL HEADS AND NOZZLES SHALL BE INSTALLED PER PLANS.
 AFTER INSTALLATION, ADJUST ALL ARCS AND THROWS FOR
 EVEN COVERAGE AND TO PREVENT OVERSPRAY ONTO
 PAVEMENT, BUILDINGS, WALLS, OR EQUIPMENT. THIS
 INCLUDES BUT IS NOT LIMITED TO ADJUSTMENTS TO THE
 RADIUS REDUCTION SCREW, SCREEN REPLACEMENTS, AND
 APPROVED NOZZLE REPLACEMENTS. ANY VERTICAL
 OBSTRUCTIONS NOT NOTED ON THESE PLANS ARE TO BE
 REPORTED TO THE LANDSCAPE ARCHITECT PRIOR TO
 COMMENCING WORK.
- 4. FLOOD TRENCHES TO COMPACT SOIL PRIOR TO LEVELING HEADS. ALL HEADS SHALL BE INSTALLED FLUSH AND PERPENDICULAR TO FINISH GRADE UNLESS OTHERWISE NOTED OR DETAILED.

IRRIGATION VALVE NOTES

- VALVE AND QUICK COUPLER LOCATIONS SHOWN ON DRAWINGS ARE APPROXIMATE LOCATIONS. CONTRACTOR SHALL IDENTIFY THE LOCATIONS OF VALVES AND QUICK COUPLERS FOR APPROVAL BY OWNER PRIOR TO
- INSTALLATION.

 2. VALVES AND QUICK COUPLERS SHALL BE GROUPED TOGETHER AND INSTALLED IN SHRUB BEDS, UNLESS OTHERWISE INDICATED.
- 3. INSTALL ALL VALVES AND QUICK COUPLERS PER PLAN DETAILS AND MANUFACTURER'S WRITTEN RECOMMENDATIONS.

DRIP AND LOW FLOW EMITTER NOTES

1. INSTALL ALL DRIPLINE AND EMITTERS PER DETAILS AND PLANS. TUBING TO BE INSTALLED 1-2" BELOW SOIL SURFACE WITH GALVANIZED TIE-DOWN STAKES AT 24" INTERVALS.

ELECTRICAL WIRING NOTES (TWO-WIRE)

- WIRING SHALL BE INSTALLED IN SAME TRENCH AS MAINLINE WITH 18" OF COVER.
 CONTRACTOR TO SUPPLY ONE ADDITIONAL WIRE FROM CONTROLLER (STRETCHING ALONG THE ENTIRE MAINLINE) TO THE LAST VALVE OR STUB OF EACH AND EVERY LEG OF
- MAINLINE.

 2.1. CONTRACTOR SHALL INSTALL A 3/4" CONDUIT ALONG THE ENTIRE MAINLINE WITH SWEEPS INTO EVERY VALVE, SPLICE OR STUB BOX FOR 2-WIRE PATH. PROVIDE 6' OF EXTRA WIRE ON EACH LEG [IN/OUT] COILED UP IN VALVE/SPLICE BOX.
- 3. CONTRACTOR SHALL CLEARLY LABEL EACH RUN OF WIRE FROM CONTROLLER TO EACH AND EVERY VALVE. SPLICE OR STUB LOCATION WITH A CORRESPONDING COLOR OF ELECTRICAL TAPE.
- 4. 4. CONTROL WIRE TO BE U.L. LISTED DIRECT BURIAL #14UF AWG MIN BUNDLE/ROLL/COIL 6' (EACH LEG IN/OUT) OF TWO-WIRE IN EACH VALVE, SPLICE, STUB BOX. (DO NOT CUT OR SPLICE CONTINUOUS RUN UNLESS NECESSARY) WIRE TYPE SHALL BE PAIGE ELECTRONIC (PARALLEL/JACKETED P7072D-RAINBIRD) OR EQUAL.
- 5. WATERPROOF DBY/R WIRE CONNECTORS TO BE USED AT ALL WIRE CONNECTIONS. THE USE OF "GREASE CAPS" WILL NOT BE ACCEPTED.
- 6. DEC-5G-LINE-TORO, LSP-1-RAINBIRD LINE SURGE PROTECTOR W/ 8' COPPER CLAD GROUNDING ROD SHALL BE PLACED AT CONTROLLER AND EVERY 500' ALONG IRRIGATION WIRE PATH. IF INDIVIDUAL DECODERS HAVE BUILT IN SURGE PROTECTION CONTRACTOR MAY OMIT INSTALLING LINE-SURGE PROTECTION FOR WIRE PATH, BUT SHALL INSTALL ONE LINE-SURGE PROJECTOR AT CONTROLLER.

PVC PIPING NOTES 1 PIPING AND FOLLIPMENT LAY

- 1. PIPING AND EQUIPMENT LAYOUT IS SHOWN SCHEMATICALLY FOR VISUAL CLARITY. PIPING AND EQUIPMENT SHOWN WITHIN PAVED AREAS SHALL BE INSTALLED WITHIN AREAS DESIGNATED FOR LANDSCAPE. MAINLINES SHOULD BE LOCATED A MINIMUM OF 18" OFF ADJACENT PAVEMENT OR OTHER OBSTACLES.
- 2. NON-PRESSURIZED LINES SHALL BE BURIED WITH A MINIMUM OF 18" COVER. PRESSURIZED MAINLINES SHALL BE BURIED WITH A MINIMUM OF 24" COVER. UNDERGROUND WARNING TAPE READING "CAUTION, BURIED IRRIGATION LINE BELOW" SHALL BE INSTALLED 12" ABOVE PRESSURIZED LINES.
- 3. PIPE SIZES SHALL BE INSTALLED PER PLANS. SMALLER PIPE SIZE SUBSTITUTIONS ARE NOT ACCEPTABLE; LARGER PIPE SIZES MAY BE APPROVED.
- 4. SOLVENT WELD FITTINGS FOR MAINLINES 2" AND LARGER SHALL BE SCHEDULE 80 PVC. ALL THREADED FITTINGS SHALL BE SCHEDULE 80 PVC.

SLEEVING NOTES

- 1. SCHEDULE 40 PVC SLEEVES SHALL PROVIDED FOR ALL MAINLINE PIPING, LATERAL LINE PIPING AND WIRING UNDER PAVEMENT. LATERAL LINE SLEEVES NOT REQUIRED UNDER PAVEMENT SPANNING LESS THAN 6'. ANY LATERAL LINES NOT REQUIRING A SLEEVE SHALL BE INSTALLED PRIOR TO PAVING AND SHALL BE SCHEDULE 40 PVC.
- 2. SLEEVES SHALL BE SIZED PER PLAN OR TWICE THE SIZE OF THE PIPE WHEN NOT SPECIFIED. ELECTRICAL WIRE SLEEVES SHALL BE OF SUFFICIENT SIZE FOR THE REQUIRED NUMBER OF WIRES. PIPING AND WIRING SHALL BE IN SEPARATE SLEEVES.
- 3. SLEEVES SHALL EXTEND A MINIMUM OF 12" BEYOND PAVED SURFACES.

WATER CONSERVATION STATEMENT

1. I HAVE COMPLIED WITH THE CRITERIA OF THE (CALIFORNIA/KERMAN WATER CONSERVATION) ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

CLOSE-OUT DOCUMENTS

- 1. AT THE COMPLETION OF THE PROJECT THE CONTRACTOR SHALL SUPPLY A "CERTIFICATE OF COMPLETION" DOCUMENT. THE DOCUMENT SHALL INCLUDE:
- A. PROJECT INFORMATION SHEET THAT CONTAINS:

 1. DATE
- 3. PROJECT NAME

 3. PROJECT APPLICANT NAME, TELEPHONE NUMBER, AND MAILING

 ADDRESS.
- 4. PROJECT ADDRESS
 5. PROPERTY OWNER NAME, TELEPHONE NUMBER AND MAILING ADDRESS.
- B. CERTIFICATION BY THE LICENSED LANDSCAPE CONTRACTOR
 THAT THE LANDSCAPE PROJECT HAS BEEN INSTALLED PER
 THE APPROVED LANDSCAPE DOCUMENTATION PACKAGE.

 1. WHERE THERE HAVE BEEN SIGNIFICANT CHANGES MADE
 IN THE FIELD DURING CONSTRUCTION THESE "AS—BUILT" OR
- CERTIFICATION.

 2. A DIAGRAM OF THE IRRIGATION PLAN SHOWING HYDROZONES SHALL BE KEPT WITH THE IRRIGATION

RECORD DRAWINGS SHALL BE INCLUDED WITH THE

- CONTROLLER FOR SUBSEQUENT MANAGEMENT PURPOSES.

 B. IRRIGATION SCHEDULING PARAMETERS USED TO SET THE
- CONTROLLER.
 C. LANDSCAPE AND IRRIGATION MAINTENANCE SCHEDULE
- D. IRRIGATION AUDIT REPORT.

 E. SOILS ANALYSIS REPORT IF NOT SUBMITTED WITH LANDSCAPE DOCUMENTATION PACKAGE AND DOCUMENTATION VERIFYING IMPLEMENTATION OF SOIL REPORT RECOMMENDATIONS.

PIPING SCHEDULE A SEE SLEEVING NOTES FOR SIZE SLEEVE SCH 40 PVC PIPE, SIZE PER PLAN. MAINLINE SCHEDULE 40 PVC PIPE 34" SCHEDULE 40 PVC PIPE 1" SCHEDULE 40 PVC PIPE 114" SCHEDULE 40 PVC PIPE

VALVE CALLOUT

<u> </u>		VALVE NUMBER
Ø		Ø.ØØ APPLICATION RATE (IN/H)
Ø"n	ØØ PSI	ROTOR-DRIP-BUBBLER

IRRIGATIO	N LEGEND				
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM	DETAI
ROTORS			•	'	
3 5 >	RAIN BIRD 5006-PL-PC-SAM-R-SS-MPR TURF ROTOR, 6" POP-UP, STAINLESS STEEL RISER, WITH FLOW SHUT-OFF DEVICE. MATCHED PRECIPITATION ROTOR (MPR NOZZLE), ARC AND RADIUS AS PER SYMBOL. 25 FT=RED, 30 FT=GREEN, 35FT=BEIGE. WITH SEAL-A-MATIC CHECK VALVE, AND IN-STEM PRESSURE REGULATOR.	118	35	VARIES	6/L5.´
BUBBLERS		1		1	ı
⊙	(1) RAIN BIRD RWS-M-B-C-1401 W/ RWS-GRATE-P & RWS-SOCK AND (1) RAIN BIRD 1401	34	20	VARIES	CITY ST
⊙ ⊙	RAIN BIRD RWS-M-B-C-1401 W/ RWS-GRATE-P & RWS SOCK (2 PER TREE)	30	30	.25/EA	CITY ST
DRIP COMPONENTS					
@	PIPE TRANSITION POINT PIPE TRANSITION POINT FROM PVC LATERAL TO QF HEADER	14			7/L5. ⁻
Ф	RAIN BIRD XFF-MA-050 W/ ½" SCH. 40 THREADED CAP FLUSH VALVE, PLUMBED TO FLUSH MANIFOLD AT LOW POINT.	28			8/L5. ⁻
\rightarrow	RAIN BIRD XFF-TFA-050 W/ AR050 I AIR RELIEF VALVE IN RAIN BIRD STANDARD VALVE BOX WITH LOCKABLE LID.	14			9/L5.
	RAIN BIRD OPERIND POP-UP OPERATION INDICATOR	28			10/L5.
	RAIN BIRD XFS-P-12-06 (18" LINE SPACING) SHRUB AREAS	20,857 L.F.	0.61 GPH		7/L5.1. 6/L5.2
IRRIGATION EQUIPM	MENT	<u>'</u>		•	ı
	RAIN BIRD 100-PESB-R, W/TBOS POTTED LATCHING SOLENOID, W/ LCRBY-100D AND PSI-M40X-100 1" DURABLE REMOTE CONTROL VALVE W/ SCRUBBER MECHANISM TECHNOLOGY, LATCHING SOLENOID, DISK Y-FILTER AND 40 PSI PRESSURE REGULATOR. USE RAIN BIRD 2-WIRE. USE RAIN BIRD 2-WIRE DECODER CDEC-ISP-1, CDEC-ISP-2 (SIZE AS NEEDED). INSTALL IN RAIN BIRD STANDARD VALVE BOX W/ LOCKABLE LID.	14			CITY ST
•	RAIN BIRD PESB-R W/TBOS POTTED LATCHING SOLENOID 1", 1-1/2" AND 2" DURABLE REMOTE CONTROL VALVE W/ SCRUBBER MECHANISM TECHNOLOGY AND LATCHING SOLENOID (SEPARATE). USE RAIN BIRD 2-WIRE DECODER CDEC-ISP-1, CDEC-ISP-2 (SIZE AS NEEDED). INSTALL IN RAIN BIRD STANDARD VALVE BOX W/ LOCKABLE LID.	31			5/L5.0
	RAIN BIRD 33-DNP QUICK COUPLER VALVE. PLACE IN RAIN BIRD STANDARD VALVE BOX W/ LOCKABLE LID. INSTALL EVERY 200'.	6			5/L5. ⁻
X	NIBCO T-113 K CLASS 125 BRONZE GATE SHUT OFF VALVE WITH CROSS HANDLE, SAME SIZE AS MAINLINE PIPE DIAMETER. INSTALL IN STANDARD VALVE BOX W/ LOCKABLE LID.	13			CITY ST
FS	FSI-B FLOW SENSOR 1-1/2" 1-1/2" CREATIVE SENSOR TECHNOLOGY BRASS FLOW SENSOR. INSTALL IN A RAIN BIRD STANDARD VALVE BOX W/ LOCKABLE LID.	1			3/L5.
(MV)	RAIN BIRD 200-EFB-CP 2" W/TBOS POTTED LATCHING SOLENOID 2" NORMALLY CLOSED MASTER VALVE. USE TORO 2-WIRE DECODER CDEC-ISP-1. INSTALL IN RAIN BIRD STANDARD VALVE BOX W/ LOCKABLE LID.	1			2/L5. ⁻
BF	BACKFLOW PREVENTER IN ENCLOSURE	1			CITY ST
W	WATER METER (POTABLE)	1			CITY ST
T	HUNTER I-CORE 48-STATION, TWO-WIRE DECODER COMMERCIAL CONTROLLER. INSTALL IN STAINLESS STEEL ENCLOSURE	1			1/L5.
RS	WEATHER SENSOR, MOUNTED ON CONTROLLER STAINLESS STEEL ENCLOSURE	1			7/L5.2
PIPING					
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 PVC SCHEDULE 40 IRRIGATION PIPE. ONLY LATERAL TRANSITION PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 3/4" IN SIZE.	7,878 L.F.			11/L5.1 3/L5.0
	IRRIGATION MAINLINE: 2" PVC SCHEDULE 40 PVC SCH 40 IRRIGATION PIPE. ALL MAINLINE FITTINGS SHALL BE SCH 80 PVC.	1,883 L.F.			CITY ST
	TORIP HEADER 1-1/4" DISTRIBUTION TUBE W/ BARBS PRE-INSTALLED @ 12" OR 18" O.C. (SIZE AS NEEDED)	356 L.F.			7/L5.16 3/L5.0
======	PIPE SLEEVE: PVC SCHEDULE 40	80 L.F.			11/L5.1 3/L5.0
sw sw	_ 1" PVC SCHEDULE 40 ELECTRICAL CONDUIT FOR 2—WIRE PATH, WITH PAIGE ELECTRIC P7072D COMMUNICATION CABLE	1,276 L.F.			4&11/L
1FS 1FS	_ 1" PVC SCHEDULE 40 ELECTRICAL CONDUIT FOR FLOW SENSORS, WITH (1) PAIGE ELECTRIC PE89 COMMUNICATION CABLE	66 L.F.			11/L5.1 3/L5.0

AND SCAPE AND SIGNATURE BY AND SOLVE SUITE BY AND SOLVE SOL

Ref. & Rev.

KERMAN NORTHWEST PARK
CITY OF KERMAN
IRRIGATION LEGEND AND NOTE

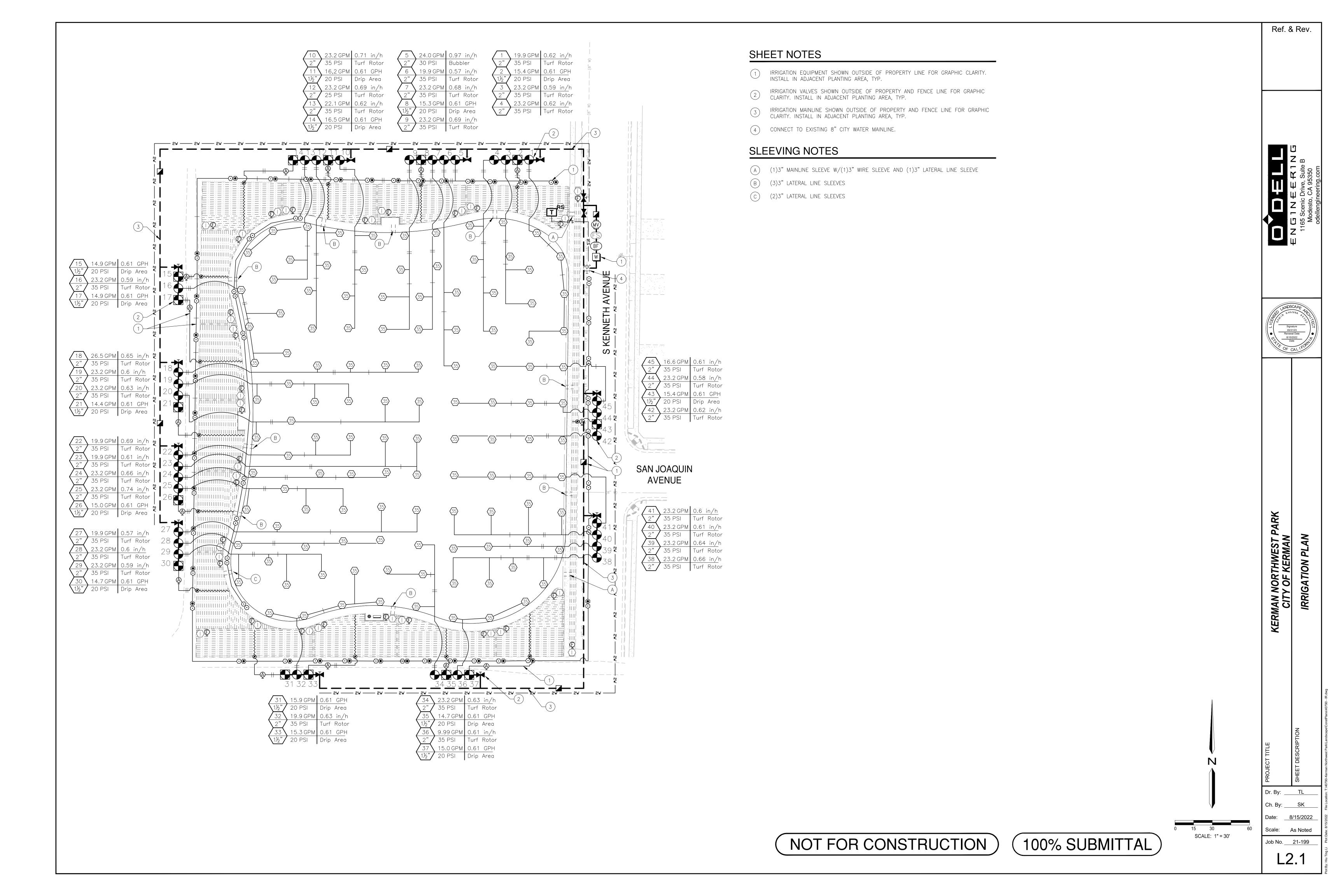
DESCRIPTION

Dr. By: _____TL
Ch. By: ____SK

Date: <u>8/15/2022</u>

Scale: As Noted

Job No. 21-199



Appendix B – Sample Water Efficient Landscape Worksheet. WATER EFFICIENT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package.

Hydrozone # /Planting Description ^a	Plant Factor (PF)	Irrigation Method ^b	Irrigation Efficiency (IE) ^c	ETAF (PF/IE)	Landscape Area (sq, ft,)	ETAF x Area	Estimated Tota Water Use (ETWU) ^e
Regular Landsca	ape Areas						
TREES	0.50	RWS	0.81	0.62	1,385	855	27,139
SHRUBS	0.24	DRIP	0.81	0.30	27,231	8,169	259,326
				Totals	(28 ,616	(B) _{9,024}	286,465
Special Landsca	ipe Areas						
GRASS				1	79,615	79,615	2,527,299
				1			
				1			
				Totals	(9),615	99,615	2,527,299
				1		ETWU Total	2,813,764
			Max	imum Allowed	d Water Allowar	nce (MAWA) ^e	2,936,072

^a Hydrozone #/	/Planting Description
E.g	
1.) front lawn	

2.) low water use plantings

3.) medium water use planting

^dETWU (Annual Gallons Required) = Eto x ^bIrrigation Method ^cIrrigation Efficiency overhead spray 0.75 for spray head 0.62 x ETAF x Area 0.81 for drip

where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year.

^eMAWA (Annual Gallons Allowed) = (Eto) (0.62) [(ETAF x LA) + ((1-ETAF) x SLA)]

where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per 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 areas and 0.45 for non-residential areas.

or drip

ETAF Calculations

Regular Landscape Areas

Average ETAF	B÷A
Total Area	(A)
Total ETAF x Area	(B)

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for nonresidential areas.

All Landscape Areas

Sitewide ETAF	(B+D) ÷ (A+C)
Total Area	(A+C)
Total ETAF x Area	(B+D)

IRRIGATED LANDSCAPE WATER EFFICIENCY TABLE									IRRIGATION SCHEDULE						
WATER BUDGET CALCULATIONS								SCHEDULING NOTES & RUN TIMES							
MAXIMUM APPLIED WATER	R ALLOWANCI	Ē						WATERING C	YCLES AND DU	JRATION DURIN	IG PRE-ESTAE	BLISHMENT PEF	RIODS SHOULD	BE ADJUSTE	D PER
MAWA=(ETo)(0.62)((0.45xL	_A)+((1.0-0.	45)xSLA))	LOCAL ETo=	LA =	SLA =		MAWA TOTAL=	PLANT PROV	'IDER'S RECOM	MENDATIONS A	AND CURRENT	WEATHER CON	IDITIONS.		
			51.2	108,231	79,615		2,936,072 GAL.		LISHMENT IRRI						
								EXTREME AN	ANT REQUIREM ID SITE SPECIF	FIC CONDITION	S WILL RESUL				
ESTIMATED TOTAL WATER	USE						1	ADJUSTMENT	S TO SCHEDU	LE FREQUENC	Y/DURAHUN.				
ETWU=(ETo)(0.62)(((PFxHA	A)/IE)+SLA)	LOCAL ETo=	PF =	LA =	SLA =		ETWU TOTAL=	IRRIGATION (CONTROLLER S	HALL BE CON	FIGURED TO R	RUN ALL ZONE	S ON SOAK C	YCLES.	
		51.2	SEE BELOW	108,231	79,615		2,813,764 GAL.	STATION RUI	N-TIMES ARE	SHOWN IN MIN	NUTES PER DA	Y (MIN) AND	DAYS PER WE	EK (DW)	
HYDROZONE INFORMATIO	N TABLE							WIN	NTER	SPF	RING	SUM	IMER	F.A	ALL
HYDROZONE TAG	PLANT FACTOR (PF)	IRRIGATION METHOD	IRRIGATION EFFICIENCY (IE)	ETAF (PF/IE)	LANDSCAPE AREA (SF)	etaf x area	ESTIMATED TOTAL WATER USE (ETWU)	PRE-EST.	POST-EST.	PRE-EST.	POST-EST.	PRE-EST.	POST-EST.	PRE-EST.	POST-EST
LANDSCAPE AREAS															
VALVE #: 5 (TREE/RWS/MODERATE)	0.50	RWS	0.81	0.62	1,385 SF	855	27,139 GAL	5 MIN/2 DW	10 MIN/1 DW	18 MIN/2 DW	35 MIN/1 DW	22 MIN/2 DW	43 MIN/1 DW	9 MIN/2 DW	16 MIN/1 DW
VALVE #: 2,8,11,14,15, 17,21,26,30,31, 33,35,37,43 (SHRUB/DRIP/LOW)	0.24	IN-LINE DRIP	0.81	0.30	27,231 SF	8,169	259,326 GAL	4 MIN/4 DW	8 MIN/2 DW	14 MIN/4 DW	29 MIN/2 DW	18 MIN/4 DW	36 MIN/2 DW	7 MIN/4 DW	15 MIN/2 DW
					TOTAL AREA= 28,616 SF	TOTAL= 9,024	TOTAL = 286,465 GAL.								
SPECIAL LANDSCAPE ARE	AS														
VALVE #: 1,3,4,6,7,9,10,12, 13,14,16,18,19,20, 22,23,24,25,27,28, 29,32,34,36,38,39, 40,41,42,44,45 (GRASS/ROTOR/HIGH)				1	79,615 SF	79,615	2,527,299 GAL	7 MIN/2 DW	14 MIN/1 DW	26 MIN/2 DW	52 MIN/1 DW	33 MIN/2 DW	67 MIN/1 DW	14 MIN/2 DW	27 MIN/1 DW
					TOTAL AREA= 79,615 SF	TOTAL= 79,615	TOTAL = 2,527,299 GAL.		1	1	1	1	1	ı	

Ref. & Rev.



KERMAN NORTHWEST PARK
CITY OF KERMAN
MWELO CALCS AND IRRIGATION SCHEDULE

Ch. By: SK

Date: 8/15/2022 Scale: As Noted

Job No. <u>21-199</u>

FGR FREE OF GIRDLING ROOTS

FLW FLOWER

GAL GALLON CAN

HI BR HIGH BRANCHED

LO BR LOW BRANCHED

MULTI MULTI STEMMED

TTW TRAIN TO WALL

TRI SP TRIANGULARLY SPACED

VAR VARIEGATED SPECIES

SL SINGLE, STRAIGHT, DOMINANT LEADER

GENERAL PLANTING NOTES

1. ANY AND ALL PORTIONS OF THIS WORK ARE SHALL CONSTRUCTED IN COMPLIANCE WITH ALL APPLICABLE RULES AND REGULATIONS AS SET FORTH BY LOCAL MUNICIPALITIES, STATE AND NATIONAL AGENCIES. IN THE EVENT THERE IS A CONFLICT WITH THESE PLANS AND THE AGENCIES STATED ABOVE, THE GOVERNING BODY'S REGULATIONS SHALL PREVAIL.

2. PRIOR TO BIDDING AND COMMENCEMENT OF SITE WORK, THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND EXAMINE CONDITIONS OF THE PROJECT SITE, VERIFYING LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES. LOCATIONS OF ITEMS SHOWN ON THESE PLANS ARE ONLY APPROXIMATIONS. ANY DISCREPANCIES DISCOVERED SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT/OWNER. FAILURE TO REPORT DISCREPANCIES TO THE CITY OF KERMAN BEFORE COMMENCEMENT OF SITE WORK IMPLIES ACCEPTANCE OF SITE CONDITIONS AND COSTS ASSOCIATED WITH CORRECTING PLANTING RELATED INSTALLATIONS.

3. CONTRACTOR TO PURCHASE AND PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THE LANDSCAPE WORK (I.E. TREE PLANTING, LAWN HYDROSEEDING, ETC.) AS SHOWN ON THE DRAWINGS AND AS SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THESE ITEMS UNTIL THE PROJECT IS COMPLETED

PROCEEDING WITH ANY WORK, THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND QUANTITIES AND SHALL IMMEDIATELY INFORM THE LANDSCAPE ARCHITECT/OWNER OF ANY DISCREPANCY BETWEEN THE INFORMATION. NUMBERS PROVIDED ON THIS PLAN ARE FOR REFERENCE ONLY. THE NUMBER OF SYMBOLS SHOWN ON THE PLANS SHALL HAVE PRIORITY OVER THE NUMBERS GIVEN.

1. THE LANDSCAPE CONTRACTOR SHALL INSPECT THE PLANTING AREAS FOR EXTREME COMPACTION PARTICULARLY AROUND CONSTRUCTION AREAS. PROVIDE MEANS FOR RIPPING TO A DEPTH OF TWELVE INCHES (12") ALL COMPACTED AREAS TO INSURE PROPER ROOT

2. CULTIVATE TOP SIX INCHES (6") OF SOIL IN ALL

3. NO SOIL SHALL BE HANDLED OR WORKED WHEN IN A MUDDY CONDITION.

4. FINISH GRADE SHALL BE APPROVED BY THE **LANDSCAPE** ARCHITECT/OWNER BEFORE ANY PLANTING BEGINS. 5. AN EVEN FINISHED GRADE WITH NO RIDGES OR DEPRESSIONS SHALL BE CAREFULLY MAINTAINED DURING OPERATIONS TO ENSURE PROPER SURFACE DRAINAGE PER GRADING PLANS

6. LAWN AREAS SHALL BE FINE GRADED TO WITHIN ONE INCH (1") BELOW ADJACENT SURFACES. 12. CONTRACTOR SHALL COORDINATE AND GET PRICING FROM CALIFORNIA CONSERVATION CORPS AND TREE FRESNO FOR INSTALLATION OF PLANTING, IRRIGATION, AND DECOMPOSED GRANITE PATHS IN BID SUBMITTAL

ON THE PROJECT. 14. CONTRACTOR TO PERFORM SOILS ANALYSIS AND OBTAIN AMENDMENT RECOMMENDATIONS FROM SOIL LABORATORY PRIOR TO BEGINNING WORK AND AFTER BACKFILL SOIL HAS BEEN PLACED. CONTRACTOR SHALL AMEND SOILS PER MOST RECENT RECOMMENDATIONS. THE FOLLOWING MINIMUM AMENDMENTS SHALL BE INCORPORATED INTO ALL PLANTED AREAS AND TILLED INTO THE SOIL TO A DEPTH OF SIX TO TWELVE INCHES

-RECOMMENDED FERTILIZER AND ELEMENTAL

AMENDMENTS. -ORGANIC AMENDMENT AT 4 CUBIC YARDS PER 1,000

PLANT MATERIAL 1. SUBSTITUTIONS SHALL NOT BE PERMITTED UNLESS

APPROVED BY THE LANDSCAPE ARCHITECT/OWNER. 2. PLANTS SHALL BE SOUND, HEALTHY, VIGOROUS, FREE FROM NOXIOUS WEEDS, PLANT DISEASE, INSECT PESTS OR THEIR EGGS, AND SHALL HAVE HEALTHY, NORMAL ROOT SYSTEMS AND COMPLY WITH ALL STATE AND LOCAL REGULATIONS.

3. PLANTS SHALL NOT BE PRUNED PRIOR TO DELIVERY EXCEPT AS AUTHORIZED BY THE OWNER'S REPRESENTATIVE. DO NOT "TOP" TREES.

4. ALL PLANT MATERIAL IS SUBJECT TO REVIEW AND APPROVAL BY THE THE CITY OF **KERMAN** PRIOR TO PLACEMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY REJECTED MATERIAL AT THEIR

5. CONTRACTOR SHALL PROVIDE PLANT MATERIAL DELIVERY TO JOB SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE, CARE, INSTALLATION, AND GUARANTEE FROM TIME OF DELIVERY. DO NOT STORE PLANT MATERIAL ON CONCRETE OR ASPHALT SURFACES.

1. PROVIDE HYDROMULCH COMPOSED OF WOOD CELLULOSE FIBER AND CONTAINING NO GERMINATIONS OR GROWTH-INHIBITING FACTORS. ENSURE A CONSISTENT TEXTURE WHICH DISPERSES EVENLY AND REMAINS SUSPENDED IN AGITATED WATER. PROVIDE WITH A TEMPORARY GREEN DYE.

2. PROVIDE ORGANIC BINDER SEEDING ADDITIVE OR EQUAL.

3. USE A BALANCED 15-15-15 BALANCED FERTILIZER. 4. INCORPORATE SEED UNIFORMLY IN HYDROMULCH AT THE SPECIFIED RATES PER ACRE. SEED SHALL BE OF THE LATEST CROP, LABELED IN ACCORDANCE WITH THE CALIFORNIA FOOD AND AGRICULTURE CODE. SUBSTITUTIONS OF THE SEED MIX ARE PERMISSIBLE ONLY WITH PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT/OWNER. THE SEED MIX SHALL CONSIST OF THE FOLLOWING:

-TURF TYPE: TALL FESCUE 90%, PREMIUM KENTUCKY BLUEGRASS 10%. AVAILABLE THROUGH DELTA GROWERS, CONTACT NUMBER IS (209)469-7979.

. LAWN HYDROSEEDING SHALL BE ALLOWED ONLY DURING APPROPRIATE WEATHER CONDITIONS TO ASSURE GERMINATION.

2. SLURRY MIXTURE WHICH HAS NOT BEEN APPLIED WITHIN FOUR (4) HOURS OF MIXING SHALL NOT BE USED AND SHALL BE REMOVED FROM THE SITE. 3. AFTER APPLICATION, THE CONTRACTOR SHALL NOT OPERATE ANY EQUIPMENT OVER THE COVERED AREA.

4. APPLY IN A SLURRY FORM CONSISTING OF CELLULOSE FIBER, SEED, CHEMICAL ADDITIVES, COMMERCIAL FERTILIZER, AND WATER. WHEN HYDRAULICALLY SPRAYED ON SOIL, ENSURE THAT HYDROMULCH FORMS A BLOTTER-LIKE GROUNDCOVER IMPREGNATED UNIFORMLY WITH SEED AND FERTILIZER THAT ALLOWS THE ABSORPTION OF MOISTURE AND RAINFALL TO PERCOLATE TO THE UNDERLYING SOIL.

HYDRAULIC EQUIPMENT USED FOR THE APPLICATION OF SLURRY SHALL BE A COMMERCIAL TYPE HYDRO-SEEDER AND HAVE A BUILT-IN AGITATION SYSTEM WITH AN PERATING CAPACITY SUFFICIENT TO AGITATE. SUSPEND AND HOMOGENEOUSLY MIX SLURRY. DISTRIBUTION LINES SHALL BE LARGE ENOUGH TO PROVIDE EVEN DISTRIBUTION OF THE SLURRY OVER THE GROUND. THE SLURRY TANK SHALL HAVE A MINIMUM CAPACITY OF 1,000 GALLONS AND SHALL BE MOUNTED ON A TRAVELING UNIT WHICH WILL PLACE THE SLURRY TANK

AND SPRAY NOZZLES WITHIN SUFFICIENT PROXIMITY TO THE AREAS TO BE SEEDED SO AS TO PROVIDE

UNIFORM DISTRIBUTION WITHOUT WASTE 6. SPRAY WITH A UNIFORM VISIBLE COAT BY USING THE GREEN COLOR OF THE MULCH AS A GUIDE. APPLY THE SLURRY IN A SWEEPING MOTION, IN AN ARCHED STREAM SO AS TO FALL LIKE RAIN, ALLOWING THE WOOD FIBERS TO BUILD ON EACH OTHER UNTIL A GOOD COAT IS ACHIEVED AND THE MATERIAL IS SPREAD AT REQUIRED RATES.

7. CLEAN UP SPILLED SLURRY ON SIDEWALKS, CONCRETE STRUCTURES, PLANTS, ARCHITECTURAL FEATURES, SITE AMENITIES AND STREETS

8. MIX SLURRY COMPONENTS PER MANUFACTURER RECOMMENDATIONS PER ACRE.

WEED CONTROL

1. PRIOR TO HYDROSEEDING THE CONTRACTOR SHALL SPRAY A POST EMERGENT HERBICIDE TO KILL EXISTING WEEDS. ALLOW ONE (1) WEEK FOR WEEDS TO

COMPLETELY DIE AND REMOVE FROM SITE 2. FOLLOWING REMOVAL OF WEEDS, IRRIGATE THE SITE KEEPING SOIL MOIST UNTIL GERMINATION OF THE NEW CROP OF WEEDS IS A MINIMUM OF ONE INCH (1") TALL. REPEAT THE HERBICIDE TREATMENT. AFTER THE SECOND TREATMENT AND AFTER THE REQUIRED WAIT PERIOD (AS SPECIFIED BY HERBICIDE MANUFACTURER) HYDROSEEDING MAY BE PERFORMED.

3. THE CONTRACTOR SHALL APPLY A BROADLEAF HERBICIDE FORTY-FIVE (45) DAYS AFTER SEEDING BUT NOT BEFORE THE THIRD MOWING. THE HERBICIDE SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED DIRECTIONS.

4. AFTER PLANTING SHRUB BEDS AND PRIOR TO TOPDRESSING, APPLY RONSTAR-G (OR EQUAL) PRE-EMERGENT WEED CONTROL IN THE AMOUNTS SPECIFIED BY THE MANUFACTURER.

PLANTING OPERATIONS

DETAILS.

1. ALL PLANTS SHALL BE PLANTED, STAKED, AND TIED ACCORDING TO THESE PLANS.

2. STAKE TREES AT THE LOWEST POINT WHERE THE TREE

CAN SUPPORT ITSELF.

3. THOROUGHLY WATER TREES, SHRUBS, AND GROUNDCOVER IMMEDIATELY AFTER PLANTING.

4. RELOCATION OF TREES: IN THE EVENT THAT UNDERGROUND CONSTRUCTION WORK OR OBSTRUCTIONS ARE ENCOUNTERED IN EXCAVATION OF THE TREE HOLES, ALTERNATE LOCATIONS WILL BE SELECTED BY THE LANDSCAPE ARCHITECT/OWNER.

5. ALL TREES SHALL BE PRUNED TO REMOVE BROKEN AND DAMAGED LIMBS AND BRANCHES. NO OTHER PRUNING IS APPROVED.

6. ROOT BARRIERS SHALL BE REQUIRED FOR ALL TREES PLANTED WITHIN 10' OF A PAVED SURFACE. SEE DETAIL 5 ON SHEET L5.2 FOR MORE INFORMATION. 7. 3" TOPDRESSING OF DECORATIVE MULCH (BROWN) BY GROVER ENVIRONMENTAL PRODUCTS 1(800)-585-4401

(MAXIMUM 2 INCH LENGTHS) SHALL BE INSTALLED PER DETAILS. WASH EXCESS BARK OFF LEAVES AND DO NOT ENGULF STEMS OF PLANTS AND GROUNDCOVER. 8. FERTILIZER TABLETS SHALL BE BEST-PAKS (20-10-5) PLANTER PACKETS PLACED IN ALL PLANTING PITS PER

PLANT ESTABLISHMENT AND MAINTENANCE PERIODS 1. THE LANDSCAPE CONTRACTOR SHALL PROVIDE A PLANT

ESTABLISHMENT PERIOD OF THIRTY (30) DAYS COMMENCING AT COMPLETION OF PLANT MATERIAL INSTALLATION. APPROXIMATELY 30 DAYS AFTER INITIAL PLANTING, APPLY A BALANCED FERTILIZER TO TURF AND SHRUB

AREAS PER MANUFACTURER'S RECOMMENDED RATES.

5. FOLLOWING THE PLANT ESTABLISHMENT PERIOD, THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE

INSTALLATION FOR SIXTY (60) DAYS INCLUDING MOWING AND MAINTENANCE OF TURF, SHRUBS, TREES, FERTILIZATION, REMOVING CLIPPINGS FROM SITE, EDGING AND THE CONTROL OF WEEDS. ADJUSTMENTS TO THE IRRIGATION SYSTEM FOR TIME AND DURATION OF FLOWS AND REPLACEMENT AND ADJUSTMENTS TO HEADS AND NOZZLES ARE ALSO REQUIRED.

4. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR DISEASE AND PEST CONTROL DURING THE ESTABLISHMENT AND MAINTENANCE PERIODS.

1. COMPLETED WORK WILL BE REVIEWED AND OBSERVED BY LANDSCAPE ARCHITECT/OWNER. ANY MODIFICATIONS REQUIRED TO MEET THE STANDARDS AS SET FORTH IN THESE LANDSCAPE DOCUMENTS SHALL BE SUBMITTED TO THE LANDSCAPE CONTRACTOR AND CORRECTED AT THE LANDSCAPE CONTRACTOR'S EXPENSE. CORRECTED ITEMS SHALL BE REVIEWED AND APPROVED BY OWNER. 2. UPON FINAL ACCEPTANCE, LANDSCAPE CONTRACTOR SHALL INSTRUCT MAINTENANCE PERSONNEL AS TO THE OPERATION AND MAINTENANCE OF ALL LANDSCAPING.

1. TURF/SOD CONTRACTOR SHALL GUARANTEE COMPLETE COVERAGE OF THE AREAS TO BE TURF SODDED. 2. ALL TREES AND SHRUBS SHALL BE GUARANTEED BY THE LANDSCAPE CONTRACTOR TO LIVE AND GROW IN A HEALTHY UPRIGHT POSITION DURING THE ESTABLISHMENT AND MAINTENANCE PERIODS REPLACEMENT MATERIAL WILL BE AT THE LANDSCAPE

CONTRACTOR'S EXPENSE EXCEPT IF VANDALIZED OR

WATER CONSERVATION STATEMENT

1. I HAVE COMPLIED WITH THE CRITERIA OF THE (STATE/CITY WATER CONSERVATION) ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN.

CLOSE-OUT DOCUMENTS

1. AT THE COMPLETION OF THE PROJECT THE CONTRACTO SHALL SUPPLY A "CERTIFICATE OF COMPLETION" DOCUMENT. THE DOCUMENT SHALL INCLUDE: A. PROJECT INFORMATION SHEET THAT CONTAINS:

. PROJECT NAME 3. PROJECT APPLICANT NAME, TELEPHONE NUMBER, AND MAILING ADDRESS

4. PROJECT ADDRESS 5. PROPERTY OWNER NAME, TELEPHONE NUMBER AND

MAILING ADDRESS. B. CERTIFICATION BY THE LICENSED LANDSCAPE CONTRACTOR THAT THE LANDSCAPE PROJECT HAS BEEN INSTALLED PER THE APPROVED LANDSCAPE DOCUMENTATION PACKAGE

1. WHERE THERE HAVE BEEN SIGNIFICANT CHANGES MADE IN THE FIELD DURING CONSTRUCTION THESE "AS-BUILT OR RECORD DRAWINGS SHALL BE INCLUDED WITH THE CERTIFICATION.

2. A DIAGRAM OF THE IRRIGATION PLAN SHOWING HYDROZONES SHALL BE KEPT WITH THE IRRIGATION CONTROLLER FOR SUBSEQUENT MANAGEMENT PURPOSES.

C. IRRIGATION SCHEDULING PARAMETERS USED TO SET THE CONTROLLER.

D. LANDSCAPE AND IRRIGATION MAINTENANCE SCHEDULE . IRRIGATION AUDIT REPORT.

F. SOILS ANALYSIS REPORT IF NOT SUBMITTED WITH LANDSCAPE DOCUMENTATION PACKAGE AND DOCUMENTATION VERIFYING IMPLEMENTATION OF SOILS REPORT RECOMMENDATIONS.

PLANT I	LEGEND						
SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	WATER USE	APPROX. SPACING	COMMENTS/NOTES
REES							
LAG MUS	LAGERSTROEMIA X 'MUSKOGEE'	CRAPE MYRTLE LIGHT LAVENDER	15 GAL	8	LOW	PER PLAN	F&B, FGR, PURPLE FLW, HI BR, MATCH
QUE AGR	QUERCUS AGRIFOLIA	COAST LIVE OAK	15 GAL	25	LOW	PER PLAN	F&B, FGR, HI BR, MATCH
QUE COC	QUERCUS COCCINEA	SCARLET OAK	15 GAL	3	MODERATE	PER PLAN	F&B, FGR, HI BR, MATCH
ZEL GRE	ZELKOVA SERRATA 'GREEN VASE'	SAWLEAF ZELKOVA	15 GAL	13	LOW	PER PLAN	F&B, FGR, HI BR, MATCH
HRUBS							
(•)	ARCTOSTAPHYLOS X 'EMERALD CARPET'	EMERALD CARPET MANZANITA	5 GAL	76	LOW	60" O.C.	F&B, FGR, WHITE FLW, MATCH
CC	CARPENTERIA CALIFORNICA	BUSH ANEMONE	1 GAL	91	LOW	60" O.C.	F&B, FGR, WHITE FLW, MATCH, TRI SP
(CD)	CEANOTHUS X 'DARK STAR'	DARK STAR WILD LILAC	1 GAL	39	LOW	72 O.C.	F&B, FGR, BLUE FLW, MATCH, TRI SP
\mathbb{O}	CISTUS X PURPUREUS	ORCHID ROCKROSE	1 GAL	50	LOW	48" O.C.	F&B, FGR, PURPLE FLW, MATCH, TRI SP
CB	COTONEASTER DAMMERI 'CORAL BEAUTY'	BEARBERRY COTONEASTER	1 GAL	62	LOW	60" O.C.	F&B, FGR, MATCH, TRI SP
HE	HETEROMELES ARBUTIFOLIA	TOYON	1 GAL	47	VERY LOW	42" O.C.	F&B, FGR, MATCH, TRI SP
\bigcirc	MUHLENBERGIA RIGENS	DEER GRASS	1 GAL	113	LOW	48" O.C.	F&B, FGR, MATCH, TRI SP
Θ	PINUS MUGO PUMILIO	DWARF MUGO PINE	1 GAL	40	LOW	48" O.C.	F&B, FGR, MATCH, TRI SP
RO	RHAMNUS CALIFORNICA	CALIFORNIA COFFEEBERRY	1 GAL	84	LOW	60" O.C.	F&B, FGR, MATCH, TRI SP
S	SALVIA MICROPHYLLA 'HOT LIPS'	BABY SAGE	1 GAL	45	LOW	24" O.C.	F&B, FGR, WHITE & RED FLW, MATCH, TRI SP
•	TEUCRIUM CHAMAEDRYS	GERMANDER	1 GAL	54	LOW	24" O.C.	F&B, FGR, PURPLE FLW, MATCH, TRI SP
(WESTRINGIA FRUTICOSA 'WYNABBIE GEM'	WYNABBIE GEM COAST ROSEMARY	1 GAL	95	LOW	48" O.C.	F&B, FGR, PURPLE FLW, MATCH, TRI SP
JRF							
	BERMUDA TIFWAY	CELEBRATION BLEND	79,61	5 S.F.	HIGH	N/A	AVAILABLE FROM LOCAL SOURCES. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
ISCELLANE	COUS						
	ROOT BARRIERS (DEEP ROOT UB18-2, OR EQUA	AL)				516 L.F.	SEE DETAIL 5, SHEET L5.2

NOT FOR CONSTRUCTION

100% SUBMITTA

Ref. & Rev

8/15/2022 Date

Dr. By: _

Ch. By: SK Date: <u>8/15/2022</u> Scale: As Noted

Job No. 21-199

L3.0

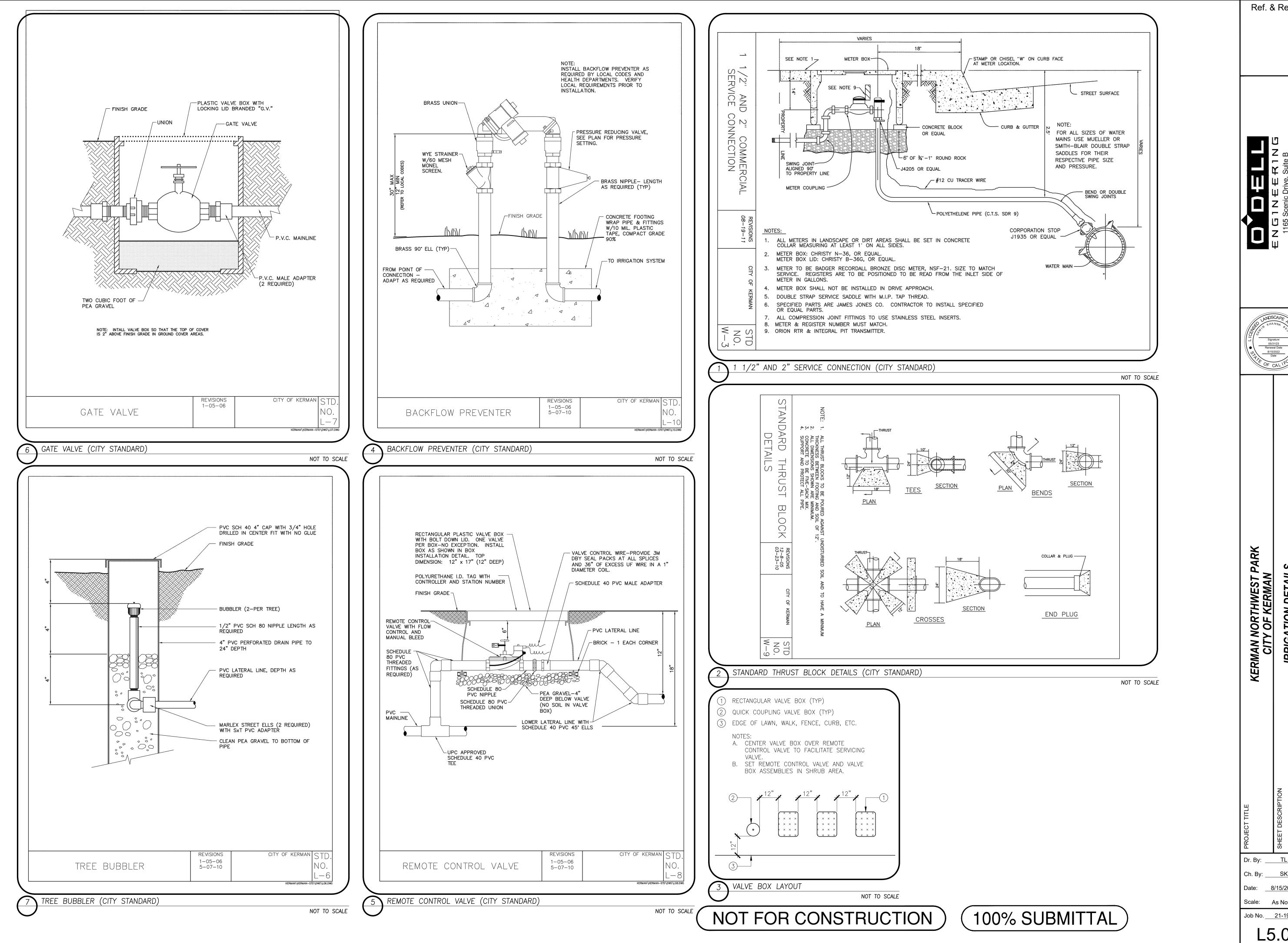
Ref		1) FINISH SURFACE OF CONCRETE			
	TM TS) NO NCRETE TM (5) NO NCRETE	 WEAKENED PLANE JOINT OR SCORE LINE, PER CITY STANDARD CONCRETE SIDEWALK DETAIL P-5 SEE PLANS FOR CONCRETE FINISH EXPANSION JOINT PER CITY STANDARD CONCRETE SIDEWALK DETAIL P-5 4" MIN. CONCRETE PAVING PROCESS AND PREPARE SUBGRADE. COMPACT UPPER 6" TO 95% PER ASTM D1557 #3 REBAR 24" O.C. MAX. (BOTH WAYS) NO CLOSER THAN 3" FROM EDGE OF CONCRETE NOTE: REFER TO CITY STANDARD CONCRETE SIDEWALK DETAIL P-5 FOR ADDITIONAL JOINT INFORMATION. 			
A STANKO					
KERMAN NORTHWEST PARK					
Dr. By: _ Ch. By: _ Date: _ Scale: Job No	100% SUBMITTAL	ONSTRUCTION 10	NOT FOF		

Date: 8/15/2022

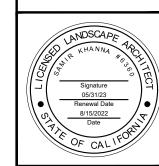
Scale: As Noted

Job No. 21-199

L4.0



Ref. & Rev.



IRRIGATION DETAILS

Ch. By: SK Date: 8/15/2022

Scale: As Noted Job No. 21-199

