GENERAL NOTES

RECYCLED WATER NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CARLSBAD MUNICIPAL WATER DISTRICT'S RULES AND REGULATIONS.
2. DRINKING WATER FOUNTAINS AND DESIGNATED OUTDOOR EATING AREAS SHALL BE PROTECTED AGAINST CONTACT WITH RECYCLED WATER SPRAY, MIST OR MISTING.
3. BEST MANAGEMENT PRACTICES SHALL BE USED TO ELIMINATE OR CONTROL TO THE BEST EXTENT POSSIBLE PONDING, RUN-OFF, OVER-SPRAY, AND MISTING.
4. HOSE BIBS ARE STRICTLY PROHIBITED.
5. CROSS-CONNECTIONS BETWEEN RECYCLED WATER LINES AND POTABLE WATER LINES ARE STRICTLY PROHIBITED.
6. NO SUBSTITUTION OF PIPE MATERIALS WILL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE CITY OF CARLSBAD MUNICIPAL WATER DISTRICT.
7. ALL MAINLINE PIPES SHALL HAVE WARNING TAPE PER CARLSBAD MUNICIPAL WATER DISTRICT'S RULES AND REGULATIONS.
8. HOURS FOR IRRIGATION WITH RECYCLED WATER ARE FROM 10:00 P.M. TO 6:00 A.M. THE HOURS FOR IRRIGATION WITH DISINFECTED TERTIARY RECYCLED WATER MAY BE MODIFIED BY THE LOCAL AUTHORITY. IRRIGATION DURING PUBLIC USE PERIODS WITH DISINFECTED TERTIARY RECYCLED WATER SHALL BE UNDER THE SUPERVISION OF THE DESIGNATED USER SUPERVISOR. IRRIGATION WITH WATER OF A LESSER QUALITY THAN DISINFECTED TERTIARY RECYCLED WATER SHALL BE BETWEEN THE HOURS OF 10:00 P.M. TO 6:00 A.M.
9. BURIAL OF ALL WIRING AND PIPING SHALL MEET CARLSBAD MUNICIPAL WATER DISTRICT RULES AND REGULATIONS.
10. NON-DESIGNATED USE AREAS SHALL BE PROTECTED FROM CONTACT WITH RECYCLED WATER, WHETHER BY WIND BLOWN SPRAY OR BY DIRECT APPLICATION THROUGH IRRIGATION OR OTHER USE. LACK OF PROTECTION, WHETHER BY DESIGN, CONSTRUCTION PRACTICE OR SYSTEM OPERATION IS STRICTLY PROHIBITED.
11. IRRIGATION HEADS SHALL BE RELOCATED OR ADJUSTED TO MINIMIZE OR ELIMINATE OVER-SPRAYING ON SIDEWALKS, STREETS AND NON-DESIGNATED USE AREAS.
12. RECYCLED WATER QUICK COUPLING VALVES SHALL BE OF A TYPE DESIGNED FOR THE USE ON RECYCLED WATER DISTRIBUTION SYSTEMS PER CARLSBAD MUNICIPAL WATER DISTRICT'S RULES AND REGULATIONS.
13. ON RECYCLED WATER SYSTEMS, ALL APPURTENANCES (SPRINKLER HEADS, VALVE BOXES, ETC.) SHALL BE COLOR-CODED PURPLE PER AWWA GUIDELINES AND SECTION 116815 OF THE CALIFORNIA HEALTH AND SAFETY CODE.
14. ALL IRRIGATION PIPE SHALL BE STENCILED WITH WARNING, "NON-POTABLE OR RECYCLED WATER", COLOR-CODED (PURPLE) AND LAID WITH WARNING TAPE AND STENCILING ORIENTED TOWARD THE TOP OF THE TRENCH PER THE CARLSBAD MUNICIPAL WATER DISTRICT'S RULES AND REGULATIONS.
15. ON NEW ON-SITE SYSTEMS (POST-METER), POTABLE WATER, CONSTANT PRESSURE RECYCLED WATER AND SEWER LINES SHOULD BE PLACED A MINIMUM OF FOUR FEET APART OR AS DIRECTED BY THE PROJECT ENGINEER AND/OR REGULATORY AGENCY. MEASUREMENTS SHALL BE BETWEEN FACING SURFACES, NOT PIPE CENTERLINES.
16. CONSTANT PRESSURE RECYCLED WATER LINES SHALL CROSS AT LEAST TWELVE INCHES BELOW POTABLE WATER LINES AND MAINTAIN AT LEAST TWELVE INCHES CROSSING SEPARATION BETWEEN OTHER UTILITIES.
17. IF A CONSTANT PRESSURE RECYCLED WATER LINE MUST BE INSTALLED ABOVE A POTABLE WATER LINE OR LESS THAN TWELVE INCHES BELOW A POTABLE WATER LINE, THEN THE RECYCLED WATER LINE SHALL BE INSTALLED WITHIN AN APPROVED PROTECTIVE SLEEVE AS PER THE CARLSBAD MUNICIPAL WATER DISTRICT'S RULES AND REGULATIONS.
18. THE REQUIRED CROSS-CONNECTION SHUTDOWN TEST SHALL BE DONE BY THE CARLSBAD MUNICIPAL WATER DISTRICT AND THE SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH.
19. THE REQUIRED CROSS-CONNECTION INSPECTION SHALL BE DONE BY EITHER THE CARLSBAD MUNICIPAL WATER DISTRICT AND/OR THE SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH. COPIES OF INSPECTION REPORTS WILL BE FORWARDED TO THE NON-INSPECTING PARTY.
20. THE DESIGN AND LOCATIONS PROPOSED FOR RECYCLED WATER "DO NOT DRINK" SIGN SHALL BE CALLED OUT ON THE PLANS.
21. WHEN RECYCLED WATER BECOMES AVAILABLE, AN ON-SITE USER SUPERVISOR SHALL BE DESIGNATED IN WRITING. THIS INDIVIDUAL SHALL BE FAMILIAR WITH PLUMBING SYSTEM WITHIN THE PROPERTY, WITH THE BASIC CONCEPTS OF BACKFLOW/CROSS-CONNECTION PROTECTION, THE RECYCLED PUREYOR'S RULES AND REGULATIONS AND THE SPECIFIC REQUIREMENTS OF A RECYCLED WATER SYSTEM. COPIES OF THE DESIGNATION, WITH CONTACT PHONE NUMBERS SHALL BE PROVIDED TO THE CARLSBAD MUNICIPAL WATER DISTRICT.

    IN CASE OF EMERGENCY CONTACT AT

    OR AFTER HOURS CONTACT AT
22. ALL PUBLIC AND PRIVATE POTABLE WATER MAINS INCLUDING FIRE MAINS AND ANY WATER WELLS AND WATER COURSES WITHIN THE RECYCLED WATER PROJECT SHALL BE SHOWN ON THE PLANS.
23. CALL OUT ON THE PLANS IF THERE ARE OR ARE NOT DRINKING FOUNTAINS AND/OR DESIGNATED OUTDOOR EATING AREAS ON THE SITE.
24. A PHYSICAL SEPARATION SHALL BE PROVIDED BETWEEN ADJACENT AREAS IRRIGATED WITH RECYCLED WATER AND POTABLE WATER. SEPARATION SHALL BE PROVIDED BY DISTANCE, CONCRETE MOW STRIPS OR OTHER APPROVED METHODS.
25. ALL IRRIGATION BACKFLOW PREVENTERS SHALL BE TESTED BY A CERTIFIED TESTER AND RESULTS MUST BE GIVEN TO THE CITY AND THE CARLSBAD MUNICIPAL WATER DISTRICT. PIPE BETWEEN THE METER AND BACKFLOW PREVENTER SHALL BE "SCHEDULE K HARD COPPER". APPROVED CONTRACT BACKFLOW TESTERS CAN BE FOUND ON THE CITY WEB SITE AT http://www.carlsbadca.gov/services/departments/water/Documents/recycledwaterbackflowtesterlist.pdf for recycled or http://www.carlsbadca.gov/services/departments/water/Documents/waterbackflowtesterlist.pdf for potable or call 438-2722.

RECYCLED WATER SYSTEM (PRIVATE)

PROJECT NAME

(PROJECT ADDRESS)

SHEET TITLE	SHEET NUMBER
TITLE SHEET	
IRRIG. LEGEND & NOTES	
IRRIGATION PLANS	
IRRIGATION DETAILS	

RW XXXX

SIGNAGE NOTES

THE FOLLOWING GUIDELINES FOR THE USE OF RECYCLED WATER ARE TO BE PERMANENTLY POSTED INSIDE THE DOOR OF EACH CONTROLLER WHERE THEY ARE EASILY VISIBLE. PLACE ON 8-1/2" X 11" SIZED SIGN.

COLOR: PURPLE BACKGROUND WITH BLACK LETTERING.

1. GUIDELINES FOR RECYCLED WATER USE

   A. IRRIGATE BETWEEN THE HOURS OF 10:00 P.M. AND 6:00 A.M. ONLY. WATERING OUTSIDE THIS TIME FRAME MUST BE DONE MANUALLY WITH QUALIFIED SUPERVISORY PERSONNEL ON-SITE. NO SYSTEM SHALL AT ANY TIME BE LEFT UNATTENDED DURING USE OUTSIDE THE NORMAL SCHEDULE.

   B. IRRIGATE IN A MANNER THAT WILL MINIMIZE RUN-OFF, POOLING, AND PONDING. THE APPLICATION RATE SHALL NOT EXCEED THE INFILTRATION RATE OF THE SOIL. TIMERS MUST BE ADJUSTED SO AS TO BE COMPATIBLE WITH THE LOWEST SOIL INFILTRATION RATE PRESENT. THIS PROCEDURE MAY BE FACILITATED BY THE EFFICIENT SCHEDULING OF THE AUTOMATIC CONTROL CLOCKS, (I.E., EMPLOYING THE REPEAT FUNCTION TO BREAK UP THE TOTAL IRRIGATION TIME INTO CYCLES THAT WILL PROMOTE MAXIMUM SOIL ABSORPTION).

   C. ADJUST SPRAY HEADS TO ELIMINATE OVERSPRAY ONTO AREAS NOT UNDER THE CONTROL OF THE CUSTOMER. FOR EXAMPLE, POOL DECKS, PRIVATE PATIOS AND LOTS, AND STREETS AND SIDEWALKS.

   D. MONITOR AND MAINTAIN THE SYSTEM TO MINIMIZE EQUIPMENT AND MATERIAL FAILURE. BROKEN SPRINKLER HEADS, LEAKS, UNRELIABLE VALVES, ETC., SHOULD BE REPAIRED AS SOON AS THEY BECOME APPARENT.

   E. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR EDUCATING EACH EMPLOYEE AND ALL MAINTENANCE PERSONNEL ON A CONTINUOUS BASIS, REGARDING THE PRESENCE OF RECYCLED WATER. MAINTENANCE PERSONNEL MUST BE INFORMED THAT WATER IS FOR IRRIGATION PURPOSES ONLY AND IS NOT APPROVED FOR DRINKING OR FOR HAND AND TOOL WASHING, ETC.

   F. OBTAIN PRIOR APPROVAL OF ALL PROPOSED CHANGES AND MODIFICATIONS TO ANY PRIVATE ON-SITE FACILITIES. SUCH CHANGES MUST BE SUBMITTED TO, AND APPROVED BY, THE DISTRICT ENGINEERING OFFICE AND DESIGNED IN ACCORDANCE WITH DISTRICT STANDARDS.

      1. ALL RECYCLED WATER SPRINKLER CONTROL VALVES SHALL BE TAGGED WITH IDENTIFICATION TAGS.
         A. TAGS SHALL BE WEATHERPROOF PLASTIC, 3"x 4", PURPLE IN COLOR, WITH THE WORDS "WARNING RECYCLED WATER - DO NOT DRINK" IMPRINTED ON ONE SIDE, AND "AVISO - AGUA IMPURA- NO TOMAR" IMPRINTED ON THE OTHER SIDE. IMPRINTING SHALL BE PERMANENT AND BLACK IN COLOR. USE TAGS AS MANUFACTURED BY T. CHRISTY ENTERPRISES OR APPROVED EQUAL.
         B. ONE TAG SHALL BE ATTACHED TO EACH VALVE AS FOLLOWS:
            1. ATTACH TO VALVE STEM DIRECTLY OR WITH PLASTIC TIE-WRAP OR
            2. ATTACH TO SOLENOID WIRE DIRECTLY OR WITH PLASTIC TIE-WRAP OR
            3. ATTACH TO VALVE COVER WITH EXISTING VALVE COVER BOLT.
      2. ALL SPRINKLER HEADS SHALL BE IDENTIFIED AS RECYCLED WATER SPRINKLER HEADS.

   G. EACH AUTOMATIC CONTROLLER AND ITS ASSOCIATED EQUIPMENT SHALL BE IDENTIFIED WITH A SIGN BEARING THE WORDS "RECYCLED WATER USED FOR IRRIGATION" IN ENGLISH AND SPANISH, WITH BLACK LETTERS 1" HIGH ON A PURPLE BACKROUND. THE SIGN SHALL BE PLACED SO THAT IT CAN BE READILY SEEN BY ANY OPERATIONS PERSONNEL UTILIZING THE EQUIPMENT.

DECLARATION OF RESPONSIBLE CHARGE:

I HEREBY DECLARE THAT I AM _____ OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THIS PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF CARLSBAD AND SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS _____ OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

THESE PLANS HAVE BEEN PREPARED IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED LANSCAPE CONCEPT PLAN, WATER CONSERVATION PLAN, FIRE PROTECTION PLAN, AND ALL CONDITIONS OF APPROVAL RELATED TO LANDSCAPING.

FIRM NAME & ADDRESS:

_____

_____

_____

PHONE NO: (____) _____

REGISTRATION NO: _____ EXPIRATION DATE: _____

PROJECT MAP

SHOW ON MAP:

STREETS & STREET NAMES, SHEET & SHEET NUMBERS, DWELLING UNITS, DRINKING FOUNTAINS, LIMIT LINE OF RECYCLED WATER USE, RECYCLED & POTABLE MAIN LINE, GATE VALVES, RECYCLED & POTABLE METERS, LAKES & RECREATIONAL AREAS, OPEN SPACE AREAS, NORTH ARROW, SCALE OF MAP, BOUNDARY LIMITS, MATCH LINES, SCALE, ASSESSORS PARCEL NUMBER, INDEX OF SHEETS, RESERVOIRS, SHOW POINTS OF CONNECTION AND LOCATION OF "DO NOT DRINK" SIGNS.

REGARDING THE FOLLOWING SHEETS:

THE NEXT ONE OR MORE SHEETS SHOULD BE THE IRRIGATION & LANDSCAPE NOTES, SYMBOLS, LEGENDS, ETC. AFTER THESE SHEETS WILL BE YOUR ACTUAL CONSTRUCTION (IRRIGATION) PLANS. LAST SHEET/S WILL BE YOUR DETAIL SHEETS.

KEEP IN MIND THE OBJECTIVE IS TO HAVE A PLAN THAT IS UNDERSTANDABLE TO OPERATION AND MAINTENANCE PEOPLE. THE INDEX-KEY MAP SHOULD ENABLE A PERSON TO EASILY LOCATE THE CONTROL VALVES AND QUICKLY GAIN AN UNDERSTANDING OF THE ENTIRE RECYCLED SYSTEM AND IT'S LIMITS.

IMPROVEMENT PLANS INCLUDE:

A DESCRIPTION & LOCATION OF WATER SERVICES INCLUDING TYPE (DOMESTIC OR RECYCLED). DESIGN P.S.I. AND INSTALLATION REQUIREMENTS, MINIMUM VERTICAL DEPTH, HORIZONTAL SEPARATION, IDENTIFICATION, AND CROSS CONNECTION CONTROL. LOCATE ALL PUBLIC FACILITIES INCLUDING DRINKING FOUNTAINS, FOOD SERVICE AND PICNIC AREAS, SWMMING POOLS, SIDEWALK AREAS, EATING TABLES AND AREAS, WALLS, TOPOGRAPHY OF SITE, DIRECTION OF DRAINAGE, LOCATION OF WELLS, STREAMS, LIMIT LINE OF 100 YEAR FLOOD PLAIN, EXISTING/PROPOSED SEWER, EXISTING & PROPOSED RECYCLED AND POTABLE WATER SYSTEMS.

LEGEND

- (W) POTABLE WATER METER
- (R) RECYCLED WATER METER
- BACKFLOW PREVENTION DEVICE INSTALL PER CMWD
- —W— POTABLE WATER LINE
- —RW— RECYCLED WATER LINE
- —RC— RECYCLED WATER PRESSURE SUPPLY LINE
- —FS— FIRE SERVICE LINE
- RECYCLED WATER USE AREA
- △ DO NOT DRINK SIGN
- OUTDOOR EATING AREA (PROTECTED AGAINST CONTACT WITH RECYCLED WATER)

WATER EFFICIENT LANDSCAPE DECLARATION:

I AM FAMILIAR WITH THE REQUIREMENTS FOR LANDSCAPE AND IRRIGATION PLANS CONTAINED IN THE CITY OF CARLSBAD'S LANDSCAPE MANUAL & WATER EFFICIENT LANDSCAPE REGULATIONS. I HAVE PREPARED THIS PLAN IN COMPLIANCE WITH THOSE REGULATIONS AND THE LANDSCAPE MANUAL. I CERTIFY THAT THE PLAN IMPLEMENTS THOSE REGULATIONS TO PROVIDE EFFICIENT USE OF WATER.

BY: _____

SIGNED UNDER PENALTY OF PERJURY

PHONE NO: (____) _____

REGISTRATION NO: _____ EXPIRATION DATE: _____

INSPECTION PROCEDURES:

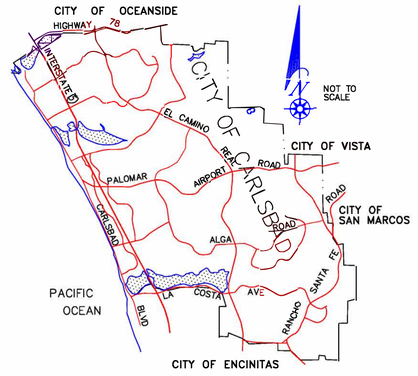
INSPECTION OF THE PROJECT SHALL BE PERFORMED BY THE LANDSCAPE ARCHITECT OF THE WORK OR A DESIGNATED AGENT. REFER TO THE SPECIFICATIONS FOR THE SCHEDULE OF REQUIRED INSPECTIONS AND REQUIRED SUBMITTALS. FOLLOWING COMPLETION OF THE WORK, THE LANDSCAPE ARCHITECT OF THE WORK WILL CERTIFY THAT THE INSTALLATION HAS BEEN COMPLETED BY SUBMITTING THE "CERTIFICATION OF COMPLETION" FORM. EMAIL THE FORM TO bp@dugmoredesignstudio.com. TO MAKE A REQUEST FOR A FINAL INSPECTION BY THE CITY, CALL 760-436-7327.

INSPECTION PROCEDURES

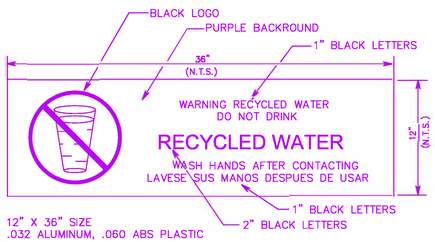
1. DISTRICT CONSTRUCTION INSPECTION SHALL INCLUDE:
   A. REQUIRED SEPARATION BETWEEN POTABLE AND RECYCLED WATER LINES (HORIZONTALLY AND VERTICALLY).
   B. PIPE IDENTIFICATION.
   C. SLEEVING AT CROSSINGS.
   D. APPROPRIATE MATERIALS AND MARKINGS, INCLUDING PROPER QUICK COUPLERS.

   AN APPROVAL LETTER REGARDING THE INSPECTION OF THE PROJECT SHALL BE OBTAINED FROM THE CITY AND THE DISTRICT, AND BE FORWARDED TO THE COUNTY HEALTH DEPARTMENT PRIOR TO FINAL INSPECTION APPROVAL.
2. DISTRICT FINAL INSPECTION SHALL INCLUDE:
   A. SIGNAGE INSTALLED PER PLAN.
   B. CONTROLLER STICKERS.
   C. TAGGING OF VALVES.
   D. COVERAGE TEST AFTER COMPLETION OF THE SPRINKLER SYSTEM TO ENSURE PROTECTION OF AREA NOT APPROVED FOR RECYCLED WATER USE.
   E. ALL ASPECTS OF THE IRRIGATION CONDITIONS INCLUDING WINDBLOWN SPRAY, RUNOFF, AND PONDING.
   F. REQUIRED PROTECTION OF ALL RESIDENTIAL AREAS.
   G. REQUIRED PROTECTION OF WELLS, STREAMS, RESERVOIRS, ETC.
   H. CROSS-CONNECTION TEST IF REQUIRED.
   I. COLOR CODED, LAMINATED CHARTS INSIDE EACH CONTROLLER.
3. ANNUAL INSPECTION SHALL INCLUDE:
   A COMPLETE INSPECTION THAT WILL COVER A-I OF THE DISTRICT FINAL INSPECTION.

REVISIONS MUST BE APPROVED BY PUBLIC HEALTH ENGINEER, CITY ENGINEER AND DISTRICT ENGINEER PRIOR TO IMPLEMENTATION IN FIELD.



VICINITY MAP



12" X 36" SIZE
.032 ALUMINUM, .060 ABS PLASTIC
OR STICK-ON VINYL SIGNS

18" X 18" SIZE
.032 ALUMINUM, .060 ABS PLASTIC
OR STICK-ON VINYL SIGNS

TYPICAL SIGNS

DIGALERT™
DIAL TOLL FREE
1-800-422-4133
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

ARCHITECT/ ENGINEERS STAMP SEAL
Expiration Date: _____

CARLSBAD MUNICIPAL WATER DISTRICT
DISTRICT ENGINEER _____ DATE

DEVELOPERS NAME: _____
ADDRESS: _____
TELEPHONE: _____
DATE PLAN PREPARED: _____
BY: _____

DATE	INITIAL	REVISION DESCRIPTION	DATE	INITIAL	DATE	INITIAL
ENGINEER OF WORK			OTHER APPROVAL		CITY APPROVAL	

APPROVED FOR IRRIGATION AND PLANTING ONLY, INCLUDING PRECISE LOCATION OF PLANTING AREA

COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION

GLENN LEEKS _____ DATE
ENVIRONMENTAL HEALTH SPECIALIST

"AS BUILT"

TITLE _____ DATE

REVIEWED BY:

INSPECTOR _____ DATE

CARLSBAD MUNICIPAL WATER DISTRICT

SHEET | CITY OF CARLSBAD PLANNING DIVISION | SHEETS

PRIVATE (ONSITE) RECYCLED WATER SYSTEM FOR:

APPROVED

PLANNING _____ DATE

DRWN BY: | PROJECT NO. | DRAWING NO.

CHCKD BY:

C:\DRAWING FILES\TITLE SHEETS\RECYCLED WATER TITLE SHEET.DWG 7/11/2019