

GENERAL NOTES

- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO STARTING WORK NEAR COMPANY FACILITIES AND SHALL COORDINATE THEIR WORK WITH COMPANY REPRESENTATIVES. ALL SERVICES WITHIN THIS SUBDIVISION SHALL BE UNDERGROUND INSTALLATION. FOR LOCATION OF ELECTRIC CABLE, GAS PIPING, TELEPHONE CABLES APPURTENANCES, CONTACT (UNDERGROUND SERVICE ALERT) 8-1-1.
- A PERMIT, SUPPLEMENTED WITH A TRAFFIC CONTROL PLAN, SHALL BE SUBMITTED TO THE CITY FOR ANY WORK WITHIN EXISTING CITY RIGHT-OF-WAY AND/OR EASEMENTS.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF OCEANSIDE ENGINEERING DEPARTMENT 48 HOURS PRIOR TO STARTING WORK SO THAT INSPECTION MAY BE PROVIDED. PLEASE CALL: (760)435-5081
- ALL WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, WITH SUPPLEMENTS (A.P.W.A. SPECIFICATIONS), THE SAN DIEGO COUNTY REGIONAL STANDARD DRAWINGS (SDRSD); CITY OF OCEANSIDE BMP DESIGN MANUAL; CITY OF OCEANSIDE WATER, SEWER, AND RECYCLED DESIGN & CONSTRUCTION MANUAL; CITY OF OCEANSIDE ENGINEER'S DESIGN AND PROCESSING MANUAL (OCEANSIDE ENGINEERS MANUAL); AND CITY OF OCEANSIDE EXCAVATION AND RIGHT-OF-WAY ENCROACHMENT POLICIES.
- PAVEMENT SECTIONS SHOWN, ARE TO BE VERIFIED BY "R" VALUE TESTS (TEST METHOD NO. CALIFORNIA 301) AND PAVEMENT DESIGN REPORT; TO BE SUBMITTED BY SOILS ENGINEER AFTER UNDERGROUND UTILITIES CONSTRUCTION IS COMPLETE, FOR CITY ENGINEER'S APPROVAL.
- ALL METALS PLACED IN THE GROUND SHALL BE ENCASED IN 6 INCHES OF SE-30 SAND.
- CONSTRUCTION EXPANSION JOINTS IN CURB AND GUTTER AT RETURNS AND AT DRIVEWAY INTERSECTIONS IS REQUIRED PER (SDRSD) G-9 AND G-10.
- ALL UNDERGROUND UTILITIES SERVICES AND LATERALS SHALL BE INSTALLED BEFORE CONSTRUCTION OF CURBS, CROSS GUTTERS, OR SURFACING OF THE STREETS AND SHALL BE MARKED FOR EASY LOCATION. THE ENGINEER OF WORK SHALL CERTIFY ALL IMPROVEMENTS TO WITHIN 0.1 FEET OF THE DESIGN.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AN EXCAVATION PERMIT FROM THE DIVISION OF INDUSTRIAL SAFETY AND ADHERE TO ALL PROVISIONS OF THE STATE CONSTRUCTION SAFETY ORDERS.
- SOILS REPORTS FOR ALL TRENCHES SHALL BE SUBMITTED TO THE ENGINEER OF WORK AND THE ENGINEER BY THE SOILS ENGINEER OF RECORD WHICH CERTIFIES THAT TRENCH BACKFILL WAS COMPACTED AS DIRECTED BY THE SOILS ENGINEER IN ACCORDANCE WITH EARTHWORK SPECIFICATIONS AND CITY OF OCEANSIDE SPECIFICATIONS AND GRADING ORDINANCE.
- BLUE FIRE HYDRANT MARKERS SHALL BE PLACED ON THE PAVEMENT PER CITY OF OCEANSIDE STANDARD DRAWING M-13.
- TRAFFIC CONTROL DESIGN & PROCEDURES; AND TRAFFIC CONTROL WARNING SIGNS, LIGHTS, AND DEVICES SHALL CONFORM TO THE CURRENT EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD). THE CONTRACTOR IS REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN THAT MEETS CITY AND CALTRANS REQUIREMENTS. TRAFFIC CONTROL PLAN SHALL BE IN OPERATION FROM 9:00 A.M. TO 3:00 P.M., UNLESS OTHERWISE APPROVED.
- CENTERLINE SURVEY MONUMENTS SHALL BE INSTALLED AT THE BEGINNING AND END OF ALL CURVES, AT THE CENTERLINE INTERSECTION OF ALL STREETS WHERE MANHOLES ALLOW, AT THE RADIUS POINT OF CONCENTRIC CUL-DE-SACS, AND AT THE ANGLE POINT OF OFFSET CUL-DE-SACS, PER (SDRSD) M-10 AND M-11.
- ALL EXISTING IMPROVEMENTS INCLUDING CURB AND GUTTERS, SIDEWALKS, ASPHALT CONCRETE OR P.C.C. PAVING, WHICH ARE BEING JOINED OR MATCHED IN CONNECTION WITH THIS PROJECT, SHALL BE JOINED OR MATCHED IN A MANNER SATISFACTORY TO THE DEPUTY PUBLIC WORKS DIRECTOR, INCLUDING NECESSARY SAWCUTTING, REMOVAL, REPLACEMENT, AND CAPPING.
- ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE, OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT, CONSTRUCTION EQUIPMENT, AND ANY OTHER ASSOCIATED EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00 A.M. AND 6:00 P.M. EACH DAY, MONDAY THROUGH FRIDAY. NO EARTHMOVING OR GRADING OPERATIONS SHALL BE CONDUCTED ON THE PREMISES ON SATURDAYS OR SUNDAYS OR LEGAL HOLIDAYS, UNLESS AUTHORIZED BY THE CITY ENGINEER. HAULING OPERATIONS SHALL BE IN ACCORDANCE WITH THE APPROVED HOURS PER THE HAUL ROUTE PERMIT.
- STRIPING SHALL BE DONE BY THE CONTRACTOR AT DEVELOPER'S EXPENSE UNLESS OTHERWISE DIRECTED.
- TRAFFIC STRIPES AND PAVEMENT MARKINGS SHALL NOT BE APPLIED OVER EXISTING STRIPES THAT ARE TO BE REMOVED. EXISTING STRIPES SHALL BE FIRST REMOVED BEFORE ANY NEW APPLICATION.
- REFLECTIVE PAVEMENT MARKERS TO BE INSTALLED BY CONTRACTOR ON PERMANENT STREET SIGNS SHOWN ON THESE PLANS SHALL BE INSTALLED BY THE DEVELOPER. SIGN SPECIFICATIONS AND INSTALLATION SHALL BE IN ACCORDANCE WITH CITY OF OCEANSIDE STANDARDS AND THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION SPECIFICATION FOR REGULATORY, WARNING AND GUIDE SIGNS.
- PATCHING OF SIDEWALK IS NOT PERMITTED.
- DAMAGED, GOUGED, BROKEN, OR GRAFFITI-MARKED SECTIONS OF CURB, GUTTER, OR SIDEWALK SHALL BE REMOVED AND REPLACED.
- A MINIMUM REPLACEMENT SECTION TO BE AT LEAST EQUAL TO SCORE MARK TO SCORE MARK (TYPICALLY 5' X 5'). FOR SIDEWALKS EXCEEDING 5' WIDTH, REPLACEMENT IS TO BE FULL WIDTH SQUARED TO THE NEXT SCORE MARK.
- ALL VALVE CANS AND RISERS ON THE CITY'S OPERATIONAL SYSTEM WILL BE RAISED TO GRADE, INCLUDING COMPACTION AROUND RISER AND PAVING AROUND VALVE CANS, WITHIN 48 HOURS AFTER PAVEMENT HAS BEEN PLACED. THIS INCLUDES VALVE CANS AND RISERS ON THE EXISTING SYSTEMS AND ON ALL NEW SYSTEMS THAT ARE TIED INTO THE CITY'S EXISTING SYSTEMS.
- ALL SEWER MANHOLES ON THE CITY'S OPERATIONAL SYSTEM WILL BE RAISED TO GRADE WITHIN 48 HOURS AFTER PAVEMENT HAS BEEN PLACED. THIS INCLUDES MANHOLES ON THE EXISTING SYSTEMS AND ON ALL NEW SYSTEMS THAT ARE TIED INTO THE CITY'S EXISTING SYSTEMS.
- THE CONTRACTOR/DEVELOPER SHALL BE RESPONSIBLE FOR IMPLEMENTING, ADMINISTERING AND MAINTAINING A CONFINED SPACE ENTRY PROGRAM IN ACCORDANCE WITH SECTIONS 5156, 5157, AND 5158 TITLE 8, CALIFORNIA CODE OF REGULATIONS (CCR).
- ALL UNUSED WATER SERVICES AND SEWER LATERALS SHALL BE ABANDONED IN ACCORDANCE WITH WATER UTILITIES DEPARTMENT REQUIREMENTS.
- PLAN SHEETS SHALL INCLUDE LATITUDE AND LONGITUDE COORDINATES FOR ALL NEW AND EXISTING PUBLIC OR CITY-MAINTAINED WATER UTILITIES WHERE APPLICABLE. COORDINATES SHALL BE SHOWN IN DEGREES, MINUTES, AND SECONDS (DMS) AND TIED TO THE APPROVED SURVEY CONTROL FOR THE PROJECT. THE ENGINEER OF RECORD SHALL ENSURE THAT ALL COORDINATE VALUES ARE CONSISTENT ACROSS THE PLAN SET AND CORRESPOND TO THE FINAL DESIGN LAYOUT.

(PROJECT NAME) IMPROVEMENT PLAN BETWEEN (STREET A.) AND (STREET B.)



VICINITY MAP
SCALE:



KEY MAP
SCALE:

STORM WATER QUALITY MANAGEMENT PLAN (SWQMP) NOTES

- PRIOR TO RECEIVING A BUILDING OCCUPANCY PERMIT, THE PROJECT SHALL DEMONSTRATE THAT ALL POST CONSTRUCTION STRUCTURAL BEST MANAGEMENT PRACTICES (BMPs), INCLUDING STORM WATER POLLUTANT CONTROL BMPs AND/OR HYDROMODIFICATION MANAGEMENT BMPs, ARE CONSTRUCTED AND FULLY OPERATIONAL, CONSISTENT WITH THE "DEEMED COMPLETE" SWQMP AND THE APPROVED GRADING PLAN, IN ACCORDANCE WITH THE CURRENT SAN DIEGO COUNTY RWQCB ORDER NO. R9-2013-0001 E.3.E. (1)(d).
- ALL POST-CONSTRUCTION BMPs SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE APPROVED SWQMP.
- PROVIDE STENCILING OR LABELING OF ALL STORM WATER DRAIN INLETS AND CATCH BASINS WITHIN THE PROJECT AREA WITH PROHIBITIVE DUMPING LANGUAGE (E.G. "NO DUMPING - I LIVE DOWNSTREAM") AND/OR GRAPHICAL ICONS TO DISCOURAGE ILLEGAL DUMPING, SATISFACTORY TO THE CITY ENGINEER. STENCILING OR LABELING MAY ALSO BE REQUIRED TO BE IN SPANISH.
- THE PROJECT SOILS ENGINEER SHALL PROVIDE A STAMPED AND SIGNED LETTER TO THE CITY OF OCEANSIDE ENGINEERING DIVISION STATING THAT THE SOIL PLACED WITHIN THE BIORETENTION FACILITIES MEETS THE SPECIFICATIONS CITED IN THE APPROVED SWQMP.
- SUFFICIENT BMPs MUST BE INSTALLED TO PREVENT SILT, MUD, OR OTHER CONSTRUCTION DEBRIS FROM BEING TRACKED INTO ADJACENT STREETS OR STORM WATER CONVEYANCE SYSTEM DUE TO CONSTRUCTION VEHICLES OR OTHER CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SUCH DEBRIS THAT MAY BE IN THE STREET AT THE END OF EACH DAY AND/OR AFTER A STORM EVENT THAT CAUSES BREACHING OF THE INSTALLED CONSTRUCTION BMPs.
- ALL STOCKPILES OF UNCOMPACTED SOIL AND/OR BUILDING MATERIALS THAT ARE INTENDED TO BE LEFT UNPROTECTED FOR A PERIOD OF GREATER THAN SEVEN (7) CALENDAR DAYS ARE TO BE PROVIDED WITH EROSION AND SEDIMENT CONTROLS. SUCH SOIL MUST BE PROTECTED WHEN THE 5-DAY PROBABILITY OF RAIN IS 50% OR GREATER PER CASQA.
- A CONCRETE "WASHOUT" SHALL BE PROVIDED ON ALL PROJECTS WHICH PROPOSE THE CONSTRUCTION OF ANY CONCRETE IMPROVEMENTS THAT ARE TO BE POURED IN PLACE ON THE SITE.
- ALL SLOPES THAT ARE CREATED OR DISTURBED BY CONSTRUCTION ACTIVITY MUST BE PROTECTED AGAINST ANY POTENTIAL RELEASE OF POLLUTANTS/SEDIMENT INTO THE ENVIRONMENT.
- (WHEN APPLICABLE) THIS SITE IS REQUIRED TO COMPLY WITH THE GENERAL STATE CONSTRUCTION PERMIT. A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED BY:

"DECLARATION OF ENGINEER OF WORK"

I HEREBY DECLARE THAT THE DESIGN OF THE IMPROVEMENTS AS SHOWN ON THESE PLANS COMPLIES WITH PROFESSIONAL ENGINEERING STANDARDS AND PRACTICES. AS THE ENGINEER IN RESPONSIBLE CHARGE OF THE DESIGN OF THESE IMPROVEMENTS, I ASSUME FULL RESPONSIBLE CHARGE FOR SUCH DESIGN. I UNDERSTAND AND ACKNOWLEDGE THAT THE PLAN CHECK OF THESE PLANS BY THE CITY OF OCEANSIDE IS A REVIEW FOR THIS LIMITED PURPOSE OF ENSURING THE PLANS COMPLY WITH CITY PROCEDURES AND OTHER APPLICABLE POLICIES AND ORDINANCES. THE PLAN CHECK IS NOT A DETERMINATION OF THE TECHNICAL ADEQUACY OF THE DESIGN OF THE IMPROVEMENTS. SUCH PLAN CHECK DOES NOT, THEREFORE, RELIEVE ME OF MY RESPONSIBILITY FOR THE DESIGN OF THESE IMPROVEMENTS.

AS ENGINEER OF WORK, I AGREE TO INDEMNIFY AND SAVE THE CITY OF OCEANSIDE, ITS OFFICERS, AGENTS, AND EMPLOYEES HARMLESS FROM ANY AND ALL LIABILITY, CLAIMS, DAMAGES OR INJURIES TO ANY PERSON OR PROPERTY WHICH MIGHT ARISE FROM THE NEGLIGENT ACTS, ERRORS OR OMISSIONS OF THE ENGINEER OF WORK, MY EMPLOYEES, AGENTS OR CONSULTANTS.

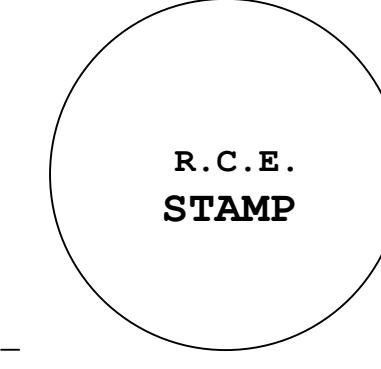
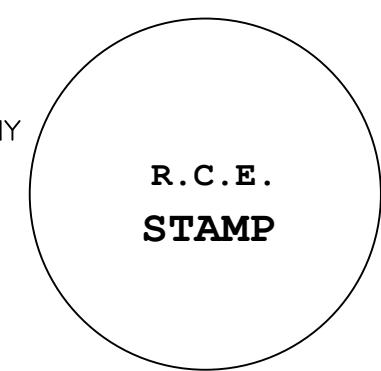
ENGINEER _____ LICENSE NO. _____ DATE _____

CIVIL ENGINEER CERTIFICATION (AS-BUILT)

I HEREBY CERTIFY THAT AS THE ENGINEER IN RESPONSIBLE CHARGE OF WORK FOR THIS PROJECT, I HAVE REVIEWED THE ENGINEERING WORK AS SHOWN ON THESE PLANS TO DETERMINE GENERAL COMPLIANCE WITH PLANS AND SPECIFICATIONS, AND THAT THE COMPLETED CONSTRUCTION IS IN CONFORMANCE WITH THESE PLANS.

I ALSO CERTIFY THAT ALL CHANGES AND/OR ADDITIONS MADE DURING CONSTRUCTION, ALL INFORMATION AS REQUIRED BY THE CITY OF OCEANSIDE GRADING ORDINANCE, AND ALL RECOMMENDATIONS FROM THE SOILS ENGINEERING AND ENGINEERING GEOLOGY REPORTS PREPARED FOR THIS PROJECT HAVE BEEN INCORPORATED IN THESE PLANS.

CIVIL ENGINEER OF RECORD: _____ NAME _____ LICENSE NO. _____



NOTE:
THE CITY'S PLAN CHECK IS NOT A DETERMINATION OF TECHNICAL DESIGN FUNCTIONALITY OF THE IMPROVEMENTS. THE PLAN CHECK DOES NOT RELIEVE THE ENGINEER OF WORK OF THEIR RESPONSIBILITY FOR THE DESIGN AND THE SUFFICIENCY OF THE PROPOSED IMPROVEMENTS.

LEGEND:

ITEM	STD. DWG.	SYMBOL

SHEET INDEX

DESCRIPTION	SHEET NO.
TITLE SHEET
NOTES & DETAILS
SECTIONS
HORIZONTAL CONTROL PLAN
SEWER & WATER PLAN
STORM DRAIN PLAN
TRAFFIC CONTROL PLAN
TRAFFIC SIGNAL & STRIPING

SITE INFORMATION

SITE ADDRESS:

LEGAL DESCRIPTION:

APN:

ACREAGE: GROSS _____ NET _____ DISTURBED _____

OWNER/PERMITEE

OWNER/DEVELOPER NAME: CONTACT NAME:

ADDRESS:

PHONE: FAX: E-MAIL:

SOILS ENGINEER

COMPANY NAME: ENGINEER NAME:

ADDRESS:

PHONE: FAX: E-MAIL:

ENGINEER OF WORK

COMPANY NAME: ENGINEER NAME:

ADDRESS:

PHONE: FAX: E-MAIL:

UTILITY COMPANY	EMERGENCY NO.
AT&T	1..(800)..924..9420.....
COX	1..(800)..234..3993.....
SAN DIEGO GAS AND ELECTRIC (SDG&E)	1..(800)..611..7343.....
WATER UTILITIES (CITY)	1..(760)..435..5800.....
TRAFFIC SIGNAL MAINTENANCE (CITY)	1..(760)..435..4500.....
NORTH COUNTY TRANSIT DISTRICT (NCTD)	1..(760)..966..6500.....

NOTE:
PRIVATE WATER, SEWER AND FIRE SERVICE LINES SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. THE BUILDER/ENGINEER/DEVELOPER IS RESPONSIBLE TO SUBMIT A SEPARATE SET OF PLANS TO THE BUILDING AND/OR FIRE DEPARTMENT FOR PLAN CHECK AND APPROVAL PRIOR TO APPROVAL OF IMPROVEMENT PLANS.

EDDA NO. _____
WDID NO. _____ FILE NO. _____

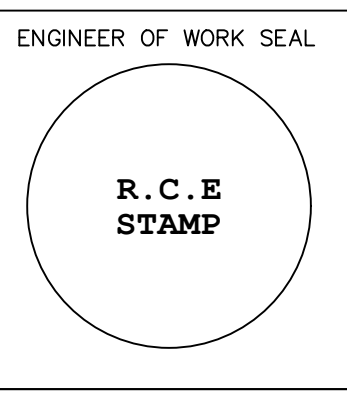
SHEET 1	CITY OF OCEANSIDE ENGINEERING DIVISION	X SHEETS
PUBLIC IMPROVEMENT PLAN FOR		
PROJECT NAME		
ACCEPTED BY		
CITY ENGINEER: Brian K. Thomas P.E. 60907 Date: _____		
Prepared under the direction of:	Reviewed By:	PLAN NUMBER
Sign: _____	Date: _____	Initials: _____ Date: _____

Underground Service Alert

CALL 811

TWO WORKING DAYS BEFORE YOU DIG

BASIS OF BEARING	NO.	APPROVED REVISIONS	BY	DATE	PLANS ARE CHECKED AND FOUND TO COMPLY WITH THE CITY OF OCEANSIDE REQUIREMENTS:
SOURCE & DATE OF TOPOGRAPHY	(1)				ACCEPTED BY:
					RECOMMENDED BY:
					WATER UTILITIES DEPARTMENT DATE _____ FIRE DEPARTMENT DATE _____
					APPROVED BY:
					TRANSPORTATION DIVISION DATE _____



ENGINEER OF WORK COMPANY LOGO

CITY NAVD88 BENCHMARK

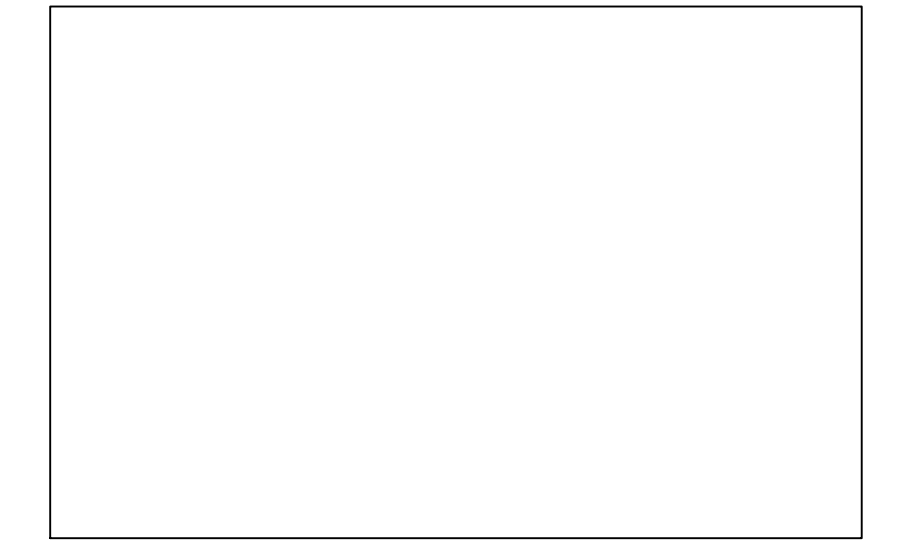
Description: _____

Location: _____

Record From: _____

Elev.: _____ Datum: _____

(PROJECT NAME) IMPROVEMENT PLAN BETWEEN (STREET A.) AND (STREET B.)



KEY MAP
SCALE:

WATERLINE/SEWERLINE DATA TABLE					
LINE	LENGTH	BEARING	REMARKS	LATITUDE	LONGITUDE
①	XXX.XXX	NXX'XX'XX"E	8" X-XXX XXX XX-XX	XX'XX'XX.XXXX"	XX'XX'XX.XXXX"
②	XXX.XXX	NXX'XX'XX"E	8" X-XXX XXX XX-XX	XX'XX'XX.XXXX"	XX'XX'XX.XXXX"
③	XXX.XXX	NXX'XX'XX"E	8" X-XXX XXX XX-XX	XX'XX'XX.XXXX"	XX'XX'XX.XXXX"
④	XXX.XXX	NXX'XX'XX"E	8" X-XXX XXX XX-XX	XX'XX'XX.XXXX"	XX'XX'XX.XXXX"

NO.	APPROVED REVISIONS	BY	DATE	ENGINEER OF WORK SEAL	ENGINEER OF WORK COMPANY LOGO	CITY NAVD88 BENCHMARK
①				R.C.E STAMP		Description: _____ Location: _____ Record From: _____ Elev: _____ Datum: _____

WDID NO.	EDDA NO.	FILE NO.
SHEET X	CITY OF OCEANSIDE ENGINEERING DIVISION	X SHEETS
PUBLIC IMPROVEMENT PLAN FOR		
PROJECT NAME		
ACCEPTED BY		
CITY ENGINEER: Brian K. Thomas P.E. 60907 Date: _____		
Prepared under the direction of:	Reviewed By:	PLAN NUMBER
Sign: _____ PRINT Name: _____	Date: _____ Initials: _____	Date: _____

(PROJECT NAME) IMPROVEMENT PLAN BETWEEN (STREET A.) AND (STREET B.)

WATER NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITIONS OF THE CITY OF OCEANSIDE WATER UTILITIES DEPARTMENT WATER, SEWER, AND RECYCLED WATER DESIGN & CONSTRUCTION MANUAL (OCEANSIDE WATER UTILITIES MANUAL); CITY OF OCEANSIDE ENGINEERS DESIGN AND PROCESSING MANUAL (OCEANSIDE ENGINEERS MANUAL); SAN DIEGO AREA REGIONAL STANDARD DRAWINGS (SDRSD); AND, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC OR GREENBOOK) AND SUPPLEMENTAL AMENDMENTS.
2. A "W" SHALL BE INSCRIBED ON THE CURB DIRECTLY ABOVE ALL WATER SERVICES. SERVICES SHALL BE SHOWN ON AS-BUILT PLANS AND SHALL BE LOCATED BY WATERLINE OR CENTERLINE STATIONING.
3. PRESSURE TEST, DISINFECT, SAMPLE TEST(S), AND FLUSH THE WATER SYSTEM IN ACCORDANCE WITH THE GUIDELINE TITLED, "CONSTRUCTION GUIDELINES AND REQUIREMENTS", INCLUDED AS SECTION F OF THE CITY OF OCEANSIDE'S WATER, SEWER, AND RECYCLED WATER DESIGN & CONSTRUCTION MANUAL'S.
4. NO DISRUPTION TO THE EXISTING WATER DISTRIBUTION MAINS WILL BE ALLOWED ON MONDAYS OR FRIDAYS. ALL SHUTDOWNS FOR SYSTEM TIE-INS WILL BE SCHEDULED BETWEEN TUESDAY, AND THURSDAY, AND WILL BE CONFINED TO NORMAL WORKING HOURS. REFER TO THE GUIDELINE TITLED, "ADMINISTRATIVE PROCEDURES FOR WATER LINE SHUTDOWNS" IN THE CONSTRUCTION GUIDELINES AND REQUIREMENTS APPENDIX OF THE CITY OF OCEANSIDE'S WATER, SEWER, AND RECYCLED WATER DESIGN & CONSTRUCTION MANUAL.
5. NO CONNECTIONS FOR THE PURPOSE OF OBTAINING WATER SUPPLY DURING CONSTRUCTION SHALL BE MADE TO ANY FIRE HYDRANT OR BLOW-OFF STRUCTURE WITHOUT FIRST OBTAINING A CONSTRUCTION WATER PERMIT FROM THE CITY OF OCEANSIDE WATER UTILITIES DEPARTMENT. A REDUCED PRESSURE PRINCIPLE ASSEMBLY (RP ASSEMBLY) SHALL PROTECT THE TEMPORARY CONSTRUCTION METER.
6. ALL WATER USED ON A CONSTRUCTION PROJECT SHALL BE METERED. THE COST OF THE WATER WILL BE CHARGED TO THE CONTRACTOR/DEVELOPER. THIS INCLUDES WATER FOR LOADING OF NEW WATERLINES, FLUSHING OF LINES, PRESSURE TESTING, ETC. CITATIONS WILL BE ISSUED TO PARTIES TAKING WATER FROM NON-METERED FACILITIES.
7. THE CONTRACTOR SHALL NOTIFY THE UNDERGROUND SERVICE ALERT TWO (2) WORKING DAYS PRIOR TO STARTING EXCAVATION SO THAT EXISTING WATER FACILITIES SHALL BE MARKED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. (UNDERGROUND SERVICE ALERT: 8-1-1).
8. LOCATION AND ELEVATION OF EXISTING WATER FACILITIES SHALL BE CONFIRMED BY FIELD MEASUREMENTS AND EXCAVATION EXPLORATION (POTHOLING) BY THE CONTRACTOR, AFTER USA MARK-OUT HAS BEEN COMPLETED AND THE WATER UTILITIES DEPARTMENT HAS BEEN GIVEN A TWO (2) WORKING-DAY NOTICE.
9. THE EXISTENCE AND LOCATION OF EXISTING WATER FACILITIES AS SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE CITY RECORDS. TO THE BEST OF OUR KNOWLEDGE, THE EXISTING WATER FACILITIES ARE AS SHOWN ON THE PLANS. THE CITY OF OCEANSIDE SHALL NOT BE HELD RESPONSIBLE FOR ANY ERROR IN THE LOCATION AND ELEVATION OF THE EXISTING WATER FACILITIES.
10. NO REVISION SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE WATER UTILITIES DIRECTOR.
11. NUTS AND BOLTS ON ALL FLANGE FITTINGS SHALL BE ZINC-PLATED AND COATED PER SECTION 2.12.D OF THE CITY OF OCEANSIDE'S WATER, SEWER, AND RECYCLED WATER DESIGN & CONSTRUCTION MANUAL, EXCEPT FOR BURIED SERVICE, WHICH SHALL BE TYPE 316 STAINLESS STEEL. ALL PLATED NUT AND BOLT THREADS SHALL BE COATED WITH NON-OXIDE GREASE PRIOR TO INSTALLATION. APPLY ANTI-SEIZE TO ALL STAINLESS STEEL NUT AND BOLT THREADS. BURIED SERVICE VALVES, FITTINGS, AND APPURTENANCES WILL BE COATED AND WRAPPED PER SECTION 2.12 OF THE OCEANSIDE WATER, SEWER, RECYCLED WATER, DESIGN AND CONSTRUCTION MANUAL.
12. WATER SERVICES ARE NOT PERMITTED IN DRIVEWAYS.
13. THE WATER UTILITIES INSPECTOR SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO ANY INSPECTION. TO ARRANGE FOR INSPECTION, CALL THE WATER UTILITIES DEPARTMENT AT 760-435-5800.
14. PIPE BEDDING AND TRENCH BACKFILL SHALL CONFORM TO SAN DIEGO REGIONAL STANDARD DRAWING (SDRSD) WP-02, EXCEPT THAT COMPACTION IN ALL ZONES SHALL BE 95%. THE PIPE ZONE SHALL BE DEFINED AS AREA 6-INCHES UNDER THE PIPE AND 12-INCHES OVER THE PIPE. THE BACKFILL MATERIAL FOR THE PIPE ZONE SHALL BE SAND WITH A SAND EQUIVALENT (SE) OF 30 OR MORE. THE TRENCH ZONE SHALL BE DEFINED AS THE AREA 12-INCHES OVER PIPE TO BOTTOM OF PAVEMENT SECTION. TRENCH ZONE MATERIAL SHALL BE NATIVE MATERIALS, FREE FROM STONES, CLODS, AND OTHER DELETERIOUS MATERIALS.
15. ALL FITTINGS AND SERVICES SHALL BE ENCASED WITH A MINIMUM OF SIX (6) INCHES OF APPROVED OR NEUTRAL SAND, AND PER SECTION 2.12 OF THE CITY OF OCEANSIDE'S WATER, SEWER, AND RECYCLED WATER DESIGN & CONSTRUCTION MANUAL.
16. PIPE DEFLECTIONS FOR SHORT RADIUS CURVES AND ANGLE POINTS SHALL NORMALLY BE ACCOMPLISHED BY MEANS OF STANDARD FITTINGS, THE LOCATIONS OF WHICH SHALL BE DETAILED ON THE PLANS.
17. DEFLECTIONS AT PIPE JOINTS SHALL NOT BE PERMITTED FOR PVC PIPE 4-INCH THROUGH 12-INCH. CURVES AND DEFLECTIONS SHALL BE MADE ONLY WITH THE USE OF HIGH DEFLECTION C900 PVC COUPLINGS OR THE APPROVED DUCTILE IRON FITTINGS. A MAXIMUM OF 5 DEGREES PER COUPLING SHALL BE PERMITTED.
18. POLYETHYLENE ENCASEMENT: ALL UNDERGROUND INSTALLED VALVES, DUCTILE IRON PIPE, AND FITTINGS SHALL BE ENCASED IN 2 LAYERS OF 8-MIL POLYETHYLENE ENCASEMENT AND INSTALLATION SHALL BE IN ACCORDANCE WITH ANSI/AWWA C105/A21.5.
19. PIPE INSTALLATION: THE INSIDE AND OUTSIDE OF THE PIPE SHALL BE CLEAN AND FREE FROM FOREIGN MATERIAL OF ANY KIND BEFORE BEING INSTALLED.
20. 3-INCH MINIMUM WIDTH COLOR CODED DETECTOR TAPE MARKED "WATER" IN 1-½ INCH BLACK LETTERS SHALL BE PLACED ON THE COMPACTED AND GRADED SAND BEDDING 12-INCHES ABOVE AND CENTERED OVER THE WATER MAIN PRIOR TO BACKFILLING THE TRENCH.
21. WATER QUALITY TESTS SHALL INCLUDE BACTERIOLOGICAL (BT) AND GENERAL PHYSICAL (GP) TESTING. ALL TESTING WILL COMPLY WITH THE PROVISIONS OF SECTION G) WATER SYSTEM TESTING REQUIREMENTS IN THE CONSTRUCTION GUIDELINES AND REQUIREMENTS APPENDIX OF THE CITY OF OCEANSIDE'S WATER, SEWER, AND RECYCLED WATER DESIGN & CONSTRUCTION MANUAL. ALL TESTING REQUIREMENTS WILL BE SUCCESSFULLY COMPLETED BEFORE CONNECTION (TIE-IN) SUBMITTAL AND APPROVAL.
22. ALL WATER DISCHARGE FROM FLUSHING, TESTING, AND DEWATERING SHALL COMPLY WITH ALL REQUIREMENTS OF THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD - SAN DIEGO REGION (SDRWQCB) REGULATIONS.
23. DETAILED PLANS FOR PRIVATE FIRE UNDERGROUND LINES MUST BE SUBMITTED TO THE FIRE DEPARTMENT FOR APPROVAL, PRIOR TO COMMENCEMENT OF CONSTRUCTION.

SEWER NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITIONS OF THE CITY OF OCEANSIDE WATER UTILITIES DEPARTMENT WATER, SEWER, AND RECYCLED WATER DESIGN & CONSTRUCTION MANUAL (OCEANSIDE WATER UTILITIES MANUAL); CITY OF OCEANSIDE DESIGN AND PROCESSING MANUAL (OCEANSIDE ENGINEERS MANUAL); SAN DIEGO AREA REGIONAL STANDARD DRAWINGS (SDRSD); AND, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC OR GREENBOOK) AND SUPPLEMENTAL AMENDMENTS.
2. EACH LOT SHALL BE SERVED BY A MINIMUM OF 4-INCH SEWER LATERAL SET AT A MINIMUM SLOPE OF 2% WITH A MINIMUM DROP OF 0.3 FEET AND A MINIMUM OF FIVE (5) FEET OF COVER AT PROPERTY LINE PER OCEANSIDE STANDARD DRAWING S-3.
3. AN "S" SHALL BE INSCRIBED ON THE CURB DIRECTLY ABOVE ALL SEWER LATERALS. LATERALS SHALL BE SHOWN ON AS-BUILT PLANS AND SHALL BE LOCATED BY SEWER MAIN OR CENTERLINE STATIONING.
4. A SEWER CLEANOUT SHALL BE PROVIDED WITHIN TWO (2) FEET BEHIND THE PROPERTY LINE FOR ALL RESIDENTIAL SEWER LATERALS PER SAN DIEGO REGIONAL STANDARD DRAWING (SDRSD) SC-01.
5. AN INSPECTION MANHOLE SHALL BE PROVIDED IMMEDIATELY BEHIND THE PROPERTY LINE FOR ALL COMMERCIAL AND INDUSTRIAL SEWER LATERALS PER OCEANSIDE STANDARD DRAWING S-7.
6. THE CONTRACTOR MUST SECURE APPROVAL FROM THE CITY INSPECTOR PRIOR TO BACKFILL OVER ANY SEWER LINE.
7. NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE CITY ENGINEER AND THE WATER UTILITIES DIRECTOR.
8. AN APPROVED AND LICENSED CONTRACTOR SHALL MAKE ALL SEWER LATERAL CONNECTIONS TO THE EXISTING SEWER MAINS..
9. AN APPROVED CONTRACTOR MAY MAKE SEWER LATERAL CONNECTIONS TO EXISTING SEWER MAINS THAT ARE LOCATED IN EASEMENTS WHERE NO PAVING IS INVOLVED. THIS MAY BE DONE WITH THE APPROVAL OF THE WATER UTILITIES DIRECTOR AND WILL BE INSPECTED BY THE WATER UTILITIES DEPARTMENT. CONTRACTOR SHALL OBTAIN A RIGHT-OF-WAY PERMIT FOR THIS WORK.
10. NO DISRUPTION TO EXISTING SEWER SERVICES WILL BE ALLOWED DURING CONNECTIONS TO EXISTING MAINS WITHOUT THE SPECIFIC APPROVAL OF THE CITY OF OCEANSIDE WATER UTILITIES DEPARTMENT.
11. THE CONTRACTOR SHALL NOTIFY THE UNDERGROUND SERVICE ALERT 48 HOURS PRIOR TO STARTING EXCAVATION SO THAT EXISTING SEWER FACILITIES MAY BE MARKED IN THE FIELD. (UNDERGROUND SERVICE ALERT: 8-1-1).
12. POTHOLING LOCATION AND ELEVATION OF EXISTING SEWER FACILITIES SHALL BE CONFIRMED BY FIELD MEASUREMENTS AND EXCAVATION EXPLORATION BY THE CONTRACTOR, IN THE PRESENCE OF A CITY INSPECTOR AFTER A TWO (2) WORKING DAY NOTICE PRIOR TO THE BEGINNING OF NEW WORK. THIS WILL ALLOW TIME TO PERMIT REVISION OF PLANS, AS NECESSARY, BECAUSE OF CONFLICTS WITH OTHER FACILITIES.
13. THE EXISTENCE AND LOCATION OF SEWER FACILITIES SHOWN ON THESE PLANS WERE OBTAINED FROM AVAILABLE CITY RECORDS. TO THE BEST OF OUR KNOWLEDGE, THE EXISTING SEWER FACILITIES ARE AS SHOWN ON THE PLANS. THE CITY OF OCEANSIDE SHALL NOT BE HELD RESPONSIBLE FOR ANY ERROR IN THE LOCATION AND ELEVATION OF THE EXISTING SEWER FACILITIES.
14. THE CITY INSPECTOR SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK ON THE SEWERS. TO ARRANGE FOR INSPECTION CALL THE WATER UTILITIES DEPARTMENT AT (760) 435-5800.
15. ALL SEWER HOUSE CONNECTIONS SHALL BE PLACED PRIOR TO SURFACING OF STREETS.
16. ALL MANHOLES ARE TO BE COATED INSIDE WITH SAUERISEN SEWERGARD 210X, QUADEX, OR RAVEN 405.
17. ALL MANHOLE COVERS FOR PRIVATE SEWER SYSTEMS SHALL BE MANUFACTURED WITH "PRIVATE SEWER" STAMPED ON TOP OF THE MANHOLE COVER.
18. ALL MANHOLE COVERS FOR PUBLIC SEWER SYSTEMS SHALL BE MANUFACTURED WITH "CITY OF OCEANSIDE" STAMPED ON TOP OF THE MANHOLE COVERS.
19. ALL SEWER MAINS SHALL BE INSPECTED BY CLOSED CIRCUIT TELEVISION AT THE CONTRACTOR'S EXPENSE PRIOR TO FINAL ACCEPTANCE. THE VIDEO RECORDING WILL TAKE PLACE AFTER COMPLETION OF TRENCH BACKFILL AND FINISH GRADING BUT PRIOR TO THE PLACEMENT OF PAVEMENT OR PERMANENT TRENCH RESURFACING TO DETERMINE THE EXISTENCE AND EXTENT OF ANY OBSTRUCTIONS, STRUCTURAL DEFICIENCIES, SAGS, OR FOREIGN MATERIAL. BOTH A VERBAL DESCRIPTION AND A WRITTEN MANUSCRIPT OF THE VIDEO WILL BE SUBMITTED TO THE WATER UTILITIES DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO FINAL ACCEPTANCE. VIDEO RECORDING WILL MEET THE REQUIREMENTS OF TELEVISION SEWER MAINS IN THE APPENDIX OF THE CITY OF OCEANSIDE'S WATER, SEWER, AND RECYCLED DESIGN & CONSTRUCTION MANUAL TITLED, "CONSTRUCTION GUIDELINES AND REQUIREMENTS."
20. ALL SEWER MAINS WILL PASS A 95% MANDREL TEST AND AIR PRESSURE TEST PRIOR TO STREET PAVING, BUT AFTER ALL OTHER UTILITIES HAVE BEEN COMPLETED AND TESTING CERTIFIED COMPACTION APPROVED.
21. SEWER PIPE SHALL BE BEDDED IN STRICT ACCORDANCE WITH CITY OF OCEANSIDE STANDARD DRAWING S-2. BEDDING SHALL REMAIN UNDISTURBED BY SUBSEQUENT CONSTRUCTION.
22. EACH PARCEL OR LOT SHALL HAVE A SEPARATE CONNECTION TO THE PUBLIC SEWER MAIN.
23. SADDLE CONNECTIONS THAT CUT INTO SEWER MAINS SHALL NOT BE ACCEPTED WITHOUT APPROVAL OF THE WATER UTILITIES INSPECTOR. SEWER CONNECTIONS TO EXISTING SEWER MAINS SHALL BE CUT-IN WYE FITTINGS UNLESS OTHERWISE DIRECTED BY THE WATER UTILITIES INSPECTOR.
24. SEWER PIPE SHALL BE STORED ON A FLAT SURFACE SO THE BARREL IS EVENLY SUPPORTED. DO NOT STACK PIPE HIGHER THAN 4 FEET. GASKETS SHALL BE STORED IN A COOL, DARK PLACE OUT OF CONTACT WITH OIL OR GREASE, AND ANY OTHER FOREIGN MATERIAL.
25. NEW SEWER MAINS WILL NOT BE CONNECTED TO THE CITY'S SEWER SYSTEM UNTIL THE REQUIREMENTS FOR OCCUPANCY ARE MET. FLOWS WILL BE RETAINED WITHIN THE NEWLY CONSTRUCTED SYSTEM BY MEANS OF PLUGGING THE NEW SYSTEM WITH A SAND TRAP OR SIMILAR PLUGGING SYSTEM IN A PLACE THAT WILL NOT IMPAIR THE FUNCTION OF THE CITY'S SEWER SYSTEM.
26. ALL SEWER LINES SHALL MEET ALL TESTING, CLEANING, AND VIDEOTAPING REQUIREMENTS, PRIOR TO CONNECTION TO THE CITY'S SEWER SYSTEM. NO TIE-IN CONNECTIONS WILL BE DONE UNTIL THE CITY HAS ACCEPTED THE NEW LINE.
27. PRIOR TO RELEASING SEWAGE INTO THE CITY'S SEWER SYSTEM, THE CONTRACTOR SHALL: A) PERFORM AN AIR PRESSURE TEST PER SECTION 306-7.8.2.4 OF THE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION; B) WAYNEBALL OR HYDRO JET ALL LINES; AND, C) HAVE A VIDEO INSPECTION OF ALL LINES THAT HAS BEEN APPROVED BY THE WATER UTILITIES DEPARTMENT.
28. A WATER INFILTRATION TEST SHALL BE PERFORMED ON ALL SEWER LINES LAID IN GROUNDWATER, PER SECTION 306-7.8.2.3 OF THE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION.

29. EXISTING SEWER MAINS WILL NOT BE USED FOR DISCHARGE OF STORM WATERS, DRAINAGE, OR OTHER SIMILAR USES PER CITY OF OCEANSIDE CODE, SECTION 29.131.
30. ALL SEWER FORCE MAINS SHALL BE PROVIDED WITH AIR RELEASE AND VACUUM VALVES AT THE REQUIRED LOCATIONS. THE AIR VALVE ASSEMBLY SHALL BE EASILY ACCESSIBLE TO THE WATER UTILITIES DEPARTMENT FOR MAINTENANCE PURPOSES.
31. DURING ANY ACTIVITY OR WORK AROUND, OR IN, AN EXISTING SEWER LINE, THE CONTRACTOR AT THEIR EXPENSE, WILL PROTECT THE SYSTEM BY INSTALLING "TRAPS" IN THE OUTLET SIDE OF THE CLOSEST MANHOLE. THE "TRAPS" AND THEIR LOCATION SHALL BE SUBMITTED TO THE WATER UTILITIES DEPARTMENT FOR APPROVAL. THE "TRAPS" WILL REMAIN IN PLACE UNTIL ALL REQUIREMENTS (TESTING, CLEANING, VIDEOTAPING, ETC.), HAVE BEEN COMPLETED AND APPROVED.
32. UPON ACTIVATION OF A SEWER LINE, THE CONTRACTOR--AT THEIR EXPENSE--WILL PROTECT THE LINE FROM FOREIGN MATERIAL BY INSTALLING PLYWOOD, OR OTHER INSPECTOR APPROVED MATERIAL, OVER THE MANHOLE BASE UNTIL ALL GRADING, PAVING, AND MANHOLE RAISING IS COMPLETE AND ACCEPTED BY THE CITY.
33. POLYETHYLENE ENCASEMENT: ALL UNDERGROUND INSTALLED VALVES, DUCTILE IRON PIPE, AND FITTINGS SHALL BE ENCASED IN 2 LAYERS OF 8-MIL POLYETHYLENE AT THE TIME OF INSTALLATION. POLYETHYLENE ENCASEMENT AND INSTALLATION SHALL BE IN ACCORDANCE WITH ANSI/AWWA C105/A21.5.
34. PIPE INSTALLATION: THE INSIDE AND OUTSIDE OF THE PIPE SHALL BE CLEAN AND FREE FROM FOREIGN MATERIAL OF ANY KIND BEFORE BEING INSTALLED.
35. 3 INCH MINIMUM WIDTH COLOR CODED DETECTOR TAPE MARKED "SEWER" IN 1-½ INCH BLACK LETTERS SHALL BE PLACED ON THE COMPACTED AND GRADED BEDDING MATERIAL ONE FOOT ABOVE AND CENTERED OVER THE SEWER MAIN PRIOR TO BACKFILLING THE TRENCH.
36. ALL WATER DISCHARGE FROM CLEANING, VIDEO, AND OTHER ACTIVITIES SHALL COMPLY WITH ALL REQUIREMENTS OF THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD--SAN DIEGO REGION (SDRWQCB) REGULATIONS.
37. CONNECTIONS TO A PUBLIC SEWER MAIN WITH A 6-INCH OR LARGER SEWER LATERAL SHALL BE MADE AT AN EXISTING MANHOLE, OR REQUIRE A NEW SEWER MANHOLE FOR CONNECTION PER SECTION 3.3 OF THE CITY OF OCEANSIDE'S WATER, SEWER, AND RECYCLED WATER DESIGN AND CONSTRUCTION MANUAL.
38. CONNECTION TO AN EXISTING SEWER MANHOLE WILL REQUIRE REHABILITATION OF THE MANHOLE PER CITY STANDARDS. REHABILITATION MAY INCLUDE, BUT NOT BE LIMITED TO, CLEANING, RE-CHANNELING OF THE MANHOLE BASE, SURFACE PREPARATION COATING THE INTERIOR OF THE MANHOLE, AND REPLACING THE MANHOLE CONE WITH A 36" OPENING AND DOUBLE RING MANHOLE FRAME AND LID.
39. MANHOLES LOCATED IN AN EASEMENT SHALL BE EQUIPPED WITH A 36-INCH COMPOSITE LID WITH A LOCKING MECHANISM. MANHOLE LIDS SHALL BE EJ 3800 COMPOSITE MANHOLE AND FRAME WITH TITUS TWISTLIFT LOCK OR APPROVED EQUAL.

EDDA NO. _____
FILE NO. _____
WDID NO. _____

SHEET X	CITY OF OCEANSIDE ENGINEERING DIVISION	X SHEETS
PUBLIC IMPROVEMENT PLAN FOR		
PROJECT NAME		
ACCEPTED BY _____		
CITY ENGINEER: Brian K. Thomas P.E. 60907		Date: _____
Prepared under the direction of: _____	Reviewed By: _____	PLAN NUMBER _____
Sign: _____	Date _____	Initials: _____
PRINT Name: _____	Date _____	Initials: _____

NO.	APPROVED REVISIONS	BY	DATE	ENGINEER OF WORK SEAL
(X)				<div style="border: 1px solid black; border-radius: 50%; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <div style="text-align: center;"> <p>R. C. E</p> <p>STAMP</p> </div> </div>

ENGINEER OF WORK COMPANY LOGO	CITY NAVD88 BENCHMARK
Description: _____	
Location: _____	
Record From: _____	
Elev: _____	Datum: _____

(PROJECT NAME) IMPROVEMENT PLAN BETWEEN (STREET A.) AND (STREET B.)

RECYCLED WATER SYSTEM NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITIONS OF THE CITY OF OCEANSIDE WATER, SEWER, AND RECYCLED WATER DESIGN & CONSTRUCTION MANUAL (OCEANSIDE WATER UTILITIES MANUAL); CITY OF OCEANSIDE DESIGN AND PROCESSING MANUAL (OCEANSIDE ENGINEERS MANUAL); SAN DIEGO AREA REGIONAL STANDARD DRAWINGS (SDRSD); AND, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPW OR GREENBOOK) AND SUPPLEMENTAL AMENDMENTS.
2. CONSTRUCT ALL RECYCLED WATER FACILITIES IN ACCORDANCE WITH THE CITY OF OCEANSIDE'S WATER, SEWER, AND RECYCLED WATER DESIGN & CONSTRUCTION MANUAL AND "RULES AND REGULATIONS FOR RECYCLED WATER SERVICE".
3. NO REVISION SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE WATER UTILITIES DEPARTMENT, AND THE SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH.
4. ALL PUBLIC AND PRIVATE POTABLE WATER MAINS INCLUDING FIRE MAINS AND ANY WATER WELLS AND PUBLIC WATERCOURSES WITHIN THE RECYCLED WATER PROJECT SHALL BE SHOWN ON THE PLANS.
5. THE CONTRACTOR SHALL NOTIFY THE UNDERGROUND SERVICE ALERT TWO (2) WORKING DAYS PRIOR TO STARTING EXCAVATION SO THAT EXISTING FACILITIES SHALL BE MARKED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. (UNDERGROUND SERVICE ALERT: 8-1-1).
6. LOCATION AND ELEVATION OF THE EXISTING UNDERGROUND UTILITIES/FACILITIES SHALL BE CONFIRMED BY FIELD MEASUREMENTS AND EXCAVATION EXPLORATION (POTHOLING) BY THE CONTRACTOR AFTER USA MARK-OUT HAS BEEN COMPLETED AND THE WATER UTILITIES DEPARTMENT HAS BEEN GIVEN A TWO (2) WORKING DAY NOTICE.
7. THE EXISTENCE AND LOCATION OF THE EXISTING RECYCLED WATER FACILITIES AS SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE CITY RECORDS. TO THE BEST OF OUR KNOWLEDGE, THE EXISTING RECYCLED WATER FACILITIES ARE AS SHOWN ON THE PLANS. THE CITY OF OCEANSIDE SHALL NOT BE HELD RESPONSIBLE FOR ANY ERROR IN THE LOCATION AND ELEVATION OF THE EXISTING RECYCLED WATER FACILITIES.
8. NO DISRUPTION TO THE EXISTING RECYCLED WATER DISTRIBUTION MAINS WILL BE ALLOWED ON MONDAYS OR FRIDAYS. ALL SHUTDOWNS FOR SYSTEM TIE-INS WILL BE SCHEDULED ON A TUESDAY, WEDNESDAY OR THURSDAY, AND WILL BE CONFINED TO NORMAL WORKING HOURS. REFER TO "ADMINISTRATIVE PROCEDURES FOR WATER LINE SHUTDOWNS", IN THE CONSTRUCTION GUIDELINES AND REQUIREMENTS SECTION OF THE CITY OF OCEANSIDE'S WATER, SEWER, AND RECYCLED WATER DESIGN & CONSTRUCTION MANUAL.
9. NO CONNECTIONS FOR THE PURPOSE OF OBTAINING WATER SUPPLY DURING CONSTRUCTION SHALL BE MADE TO ANY FIRE HYDRANT OR BLOW-OFF STRUCTURE WITHOUT FIRST OBTAINING A CONSTRUCTION WATER PERMIT FROM THE CITY OF OCEANSIDE WATER UTILITIES DEPARTMENT. A REDUCED PRESSURE PRINCIPLE ASSEMBLY (RP ASSEMBLY) SHALL PROTECT THE METER.
10. ALL WATER, OR RECYCLED WATER, USED ON A CONSTRUCTION PROJECT SHALL BE METERED. THE COST OF THE WATER, OR RECYCLED WATER, WILL BE CHARGED TO THE CONTRACTOR/DEVELOPER. THIS INCLUDES WATER FOR LOADING OF NEW WATERLINES, FLUSHING OF LINES, PRESSURE TESTING, ETC. CITATIONS WILL BE ISSUED TO PARTIES TAKING WATER FROM NON-METERED FACILITIES.
11. A MINIMUM OF 12 INCHES OF VERTICAL SEPARATION BETWEEN UTILITIES MUST BE MAINTAINED AT ALL TIMES.
12. 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.
13. A TEN-FOOT HORIZONTAL SEPARATION BETWEEN POTABLE WATER AND RECYCLED WATER MAINS MUST BE MAINTAINED AT ALL TIMES. THE POTABLE LINE MUST BE INSTALLED ABOVE THE RECYCLED LINE.
14. WHEN A POTABLE WATER LINE AND RECYCLED LINE CROSS, THE RECYCLED LINE SHALL BE INSTALLED WITHIN A PROTECTIVE STEEL CASING SLEEVE (PER OCEANSIDE STANDARD DRAWING RW-21). THE SLEEVE SHALL EXTEND 10 FEET FROM EACH SIDE, FROM THE CENTERLINE OF THE POTABLE LINE, FOR A TOTAL SLEEVE LENGTH OF 20 FEET.
15. PIPE INSTALLATION: THE INSIDE AND OUTSIDE OF THE PIPE SHALL BE CLEAN AND FREE FROM FOREIGN MATERIAL OF ANY KIND BEFORE BEING INSTALLED.
16. NUTS AND BOLTS ON ALL FLANGE FITTINGS SHALL BE CADMIUM PLATED AND COATED PER SECTION 4.5, EXCEPT FOR BURIED SERVICE, WHICH SHALL BE STAINLESS STEEL. ALL PLATED NUT AND BOLT THREADS WILL BE COATED WITH NON-OXIDE GREASE AND ALL STAINLESS STEEL NUT AND BOLT THREADS COATED WITH ANTI-SEIZE PRIOR TO INSTALLATION. BURIED LINES, SERVICES, VALVES, AND APPURTENANCES WILL BE COATED AND WRAPPED PER SECTION 4.5 OF THE CITY OF OCEANSIDE'S WATER, SEWER, AND RECYCLED WATER DESIGN & CONSTRUCTION MANUAL.
17. PIPE DEFLECTIONS FOR SHORT RADIUS CURVES AND ANGLE POINTS SHALL NORMALLY BE ACCOMPLISHED BY MEANS OF STANDARD FITTINGS, THE LOCATIONS OF WHICH SHALL BE DETAILED ON THE PLANS.
18. POLYETHYLENE ENCASEMENT: ALL UNDERGROUND INSTALLED VALVES, DUCTILE IRON PIPE, AND FITTINGS SHALL BE ENCASED IN 2 LAYERS OF 8-MIL PURPLE POLYETHYLENE ENCASEMENT AND INSTALLATION SHALL BE IN ACCORDANCE WITH ANSI/AWWA C105/A21.5.
19. INSTALL RECYCLED WATER IDENTIFICATION TAPE AND/OR TAGS ON ALL RECYCLED WATER PIPING, INCLUDING SERVICES LINES, APPURTENANCES, AND CONNECTIONS IN ACCORDANCE WITH THE CITY OF OCEANSIDE'S WATER, SEWER, AND RECYCLED WATER DESIGN & CONSTRUCTION MANUAL AND THE OCEANSIDE RECYCLED WATER (RW) STANDARD DRAWINGS.
20. ALL RECYCLED WATER SPRINKLER CONTROL VALVES SHALL BE TAGGED WITH IDENTIFICATION TAGS. TAGS SHALL BE WEATHERPROOF PLASTIC 3" X 4", PURPLE IN COLOR, WITH WORDS "WARNING RECYCLED WATER - DO NOT DRINK" IMPRINTED ON ONE SIDE, AND "AVISO - AGUA IMPURA - NO TOMAR" ON THE OTHER SIDE. IMPRINTING SHALL BE PERMANENT AND BLACK IN COLOR.

ONE TAG SHALL BE ATTACHED TO EACH VALVE AS FOLLOWS:

ATTACH TO VALVE STEM DIRECTLY OR WITH PLASTIC TIE WRAP; OR
ATTACH TO SOLENOID WIRE DIRECTLY OR WITH PLASTIC TIE WRAP.
21. THE DESIGN AND LOCATIONS PROPOSED FOR RECYCLED WATER "DO NOT DRINK" SIGNS SHALL BE CALLED OUT ON THE PLANS.
22. PIPE BEDDING AND TRENCH BACKFILL SHALL CONFORM TO SAN DIEGO REGIONAL STANDARD DRAWING W-21, EXCEPT THAT COMPACTION SHALL BE 95%. THE PIPE SHALL BE LAID ON 6-INCH MINIMUM SAND BED WITH SAND EQUIVALENT OF SE-30 OR MORE. THE BACKFILL MATERIAL FOR THE PIPE ZONE SHALL BE SAND OR NATIVE MATERIAL WITH A S.E. OF 30 OR MORE, FREE FROM STONES, CLOUDS AND OTHER DELETERIOUS MATERIALS. ALL PIPE AND FITTINGS SHALL BE ENCASED WITH 6 INCHES OF NEUTRAL SAND, AND PER SECTION 4.5 OF THE OCEANSIDE ENGINEERS MANUAL.
23. RECYCLED WATER SERVICES ARE NOT PERMITTED IN DRIVEWAYS AND METER BOXES ARE NOT PERMITTED IN CONCRETE.
24. A "RW" SHALL BE INSCRIBED ON CURB DIRECTLY ABOVE ALL RECYCLED WATER SERVICES. SERVICES SHALL BE SHOWN ON AS-BUILT PLANS AND SHALL BE LOCATED BY A RECYCLED WATERLINE STATIONING.
25. PRESSURE TEST, DISINFECT, SAMPLE TEST(S), AND FLUSH THE RECYCLED WATER SYSTEM IN ACCORDANCE WITH THE CITY OF OCEANSIDE'S WATER, SEWER, AND RECYCLED WATER DESIGN MANUAL'S CONSTRUCTION GUIDELINES AND REQUIREMENTS, SECTION F.
26. THE CITY INSPECTOR SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO ANY INSPECTION. TO ARRANGE FOR INSPECTION, CALL THE WATER UTILITIES DEPARTMENT AT 760-435-5800.
27. ALL WATER DISCHARGE FROM FLUSHING, TESTING, AND DEWATERING SHALL COMPLY WITH ALL REQUIREMENTS OF THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD-SAN DIEGO REGION (SDRWQCB) REGULATIONS.

28. WHERE RECYCLED WATER IS BEING USED, ALL POTABLE WATER SERVICE CONNECTIONS MUST HAVE A REDUCED PRESSURE PRINCIPLE ASSEMBLY (RP ASSEMBLY) IMMEDIATELY DOWNSTREAM FROM THE METER (SEE OCEANSIDE STANDARD DRAWINGS W-11 AND W-12).
29. WHERE POTABLE WATER IS USED TO SUPPLEMENT THE RECYCLED SYSTEM, THE POTABLE SYSTEM MUST HAVE AN AIR GAP SEPARATION (AG) FROM THE RECYCLED SYSTEM.
30. AN ON-SITE USER/SUPERVISOR SHALL BE DESIGNATED IN WRITING. THIS INDIVIDUAL SHALL BE FAMILIAR WITH PLUMBING SYSTEMS WITHIN THE PROPERTY, WITH THE BASIC CONCEPTS OF BACKFLOW/CROSS-CONNECTION PROTECTION, THE RECYCLED PURVEYOR'S RULES AND REGULATIONS, AND THE SPECIFIC REQUIREMENTS OF A RECYCLED WATER SYSTEM. COPIES OF THE DESIGNATION, WITH CONTACT TELEPHONE NUMBERS, SHALL BE PROVIDED TO CITY OF OCEANSIDE WATER UTILITIES DEPARTMENT AND SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH. THE FORMAT OF THE DESIGNATION WILL BE SIMILAR TO THAT SHOWN BELOW:

IN CASE OF EMERGENCY
CONTACT: _____ AT: _____
AFTER HOURS CONTACT: _____ AT: _____
31. THE DEVELOPER/CONTRACTOR SHALL CONDUCT A CROSS-CONNECTION TEST AND COVERAGE TEST AS DIRECTED BY THE CITY OF OCEANSIDE WATER UTILITIES DEPARTMENT AND THE SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH PRIOR TO ANY USE OF RECYCLED WATER.
32. EITHER THE CITY OF OCEANSIDE WATER UTILITIES DEPARTMENT AND/OR SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH WILL DO AN ANNUAL CROSS-CONNECTION INSPECTION. COPIES OF INSPECTION RESULTS WILL BE FORWARDED TO THE NON-INSPECTING PARTY.
33. EITHER THE SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH OR THE STATE DEPARTMENT OF HEALTH SERVICES SHALL MONITOR THE REQUIRED CROSS-CONNECTION CONTROL SHUTDOWN TEST.
34. ON-SITE CROSS-CONNECTIONS BETWEEN RECYCLED WATERLINES AND POTABLE WATER LINES ARE STRICTLY PROHIBITED.
35. HOSE BIBS ARE STRICTLY PROHIBITED.
36. QUICK COUPLING VALVES USED IN RECYCLED WATER SYSTEMS SHALL CONFORM TO THE FOLLOWING:

A. QUICK-COUPLING VALVES SHALL BE 1-INCH NOMINAL SIZE NELSON #7654, WITH BRASS CONSTRUCTION AND A NORMAL WORKING PRESSURE OF 150 P.S.I. OR RAINBIRD #44NP. INSTALL QUICK COUPLERS NO CLOSER THAN 200 FEET ON CENTER AND NO CLOSER THAN 100 FEET TO ANY HARDSCAPE OR STRUCTURE.

B. IN ORDER TO PREVENT UNAUTHORIZED USE, THE VALVE SHALL BE OPERATED ONLY WITH A SPECIAL COUPLER KEY WITH AN ACME THREAD FOR OPENING AND CLOSING THE VALVE.

C. THE COVER SHALL BE PERMANENTLY ATTACHED TO THE QUICK-COUPLING VALVE AND SHALL BE PURPLE RUBBER OR VINYL.

D. LOCKING COVERS ARE REQUIRED.
37. NO PONDING, RUN-OFF, OR OVER-SPRAY OF RECYCLED WATER IS PERMITTED. ALL SPRINKLER HEADS MUST BE ADJUSTED TO PREVENT OVER-SPRAYING ONTO SIDEWALKS, STREETS, AND PRIVATE LOTS.
38. ALL NON-DESIGNATED USE AREAS SHALL BE PROTECTED FROM CONTACT WITH RECYCLED WATER, WHETHER BY WINDBLOWN SPRAY OR BY DIRECT APPLICATION, THROUGH IRRIGATION OR OTHER APPROVED USE. LACK OF PROTECTION, WHETHER BY DESIGN, CONSTRUCTION PRACTICE, OR SYSTEM OPERATION IS STRICTLY PROHIBITED.
39. ALL PUBLIC FACILITIES SUCH AS COMFORT STATIONS, DRINKING FOUNTAINS, DESIGNATED OUTDOOR EATING AREAS, ETC. SHALL BE PROTECTED FROM SPRAY BY RECYCLED WATER.
40. A PHYSICAL SEPARATION SHALL BE PROVIDED BETWEEN ADJACENT AREAS IRRIGATED WITH RECYCLED WATER AND POTABLE WATER. DISTANCE, CONCRETE MOW STRIPS, OR OTHER APPROVED METHODS SHALL PROVIDE SEPARATION.
41. IRRIGATION HEADS SHALL BE RELOCATED OR ADJUSTED TO MINIMIZE OR ELIMINATE OVER-SPRAYING ON SIDEWALKS, STREETS, AND NON-DESIGNATED USE AREAS.
42. CALL OUT ON THE PLANS IF THERE ARE, OR ARE NOT, DRINKING FOUNTAINS AND/OR DESIGNATED OUTDOOR EATING AREAS ON THIS SITE.
43. 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. IF RECYCLED WATER WILL BE USED DURING 6 A.M. TO 10 P.M. THEN THE SITE SUPERVISOR MUST BE ON-SITE AT ALL TIMES DURING THE RECYCLED WATER USE AND MUST BE CERTIFIED THROUGH THE SAN DIEGO COUNTY WATER AUTHORITY (SDCWA) CLASS TITLED, "RECYCLED WATER CERTIFICATION WORKSHOP".
44. ALL MAINLINE PIPES SHALL BE COLORED PURPLE AND HAVE WARNING TAPE PER THE OCEANSIDE WATER, SEWER, AND RECYCLED WATER DESIGN & CONSTRUCTION MANUAL SECTION 4.2.8.
45. ON RECYCLED WATER SYSTEMS, ALL APPURTENANCES (SPRINKLER HEADS, VALVE BOXES, ETC.) SHALL BE COLOR-CODED PURPLE PER AWWA GUIDELINES AND SECTION 116B15 OF THE CALIFORNIA HEALTH AND SAFETY CODE.
46. BEST MANAGEMENT PRACTICES (BMP'S) SHALL BE USED TO ELIMINATE OR CONTROL TO THE BEST EXTENT POSSIBLE PONDING, RUNOFF, OVERSPRAY, AND MISTING.
47. THERE SHALL BE NO DIRECT (PIPE-TO-PIPE) DRAINAGE OF RECYCLED WATER INTO THE STORM DRAINS.
48. ABSOLUTELY MINIMIZE, BY BEST MANAGEMENT PRACTICES, RECYCLED WATER RUNOFF TO STORM DRAINS.
49. DESIGN OF BROW DITCHES AND CATCH BASINS SHALL ABSOLUTELY MINIMIZE RECYCLED WATER RUNOFF INTO STORM DRAINS.
50. ALL SIGNAGE WITHIN THE RECYCLED SITE SHALL COMPLY WITH THE SIGNAGE PLAN APPROVED BY THE SAN DIEGO COUNTY HEALTH DEPARTMENT (PER SECTION 4.2.12 & 4.2.13 OF THIS MANUAL).
51. EDUCATE ALL MAINTENANCE PERSONNEL ON A CONTINUOUS BASIS OF THE PRESENCE OF RECYCLED WATER. PERSONNEL MUST BE INFORMED THAT RECYCLED WATER IS MEANT FOR IRRIGATION PURPOSES ONLY, AND IS NOT APPROVED FOR DRINKING PURPOSES, HAND WASHING, CLEANING OF TOOLS, ETC. GIVEN THE HIGH TURNOVER RATE OF EMPLOYEES IN THE LANDSCAPE INDUSTRY IT IS IMPORTANT THIS INFORMATION BE DISSEMINATED ON AN ALMOST DAILY BASIS.

EDDA NO. _____
FILE NO. _____
WDID NO. _____

SHEET X	CITY OF OCEANSIDE ENGINEERING DIVISION	X SHEETS
PROJECT NAME		
ACCEPTED BY _____		
CITY ENGINEER: Brian K. Thomas P.E. 60907 Date: _____		
Prepared under the direction of:	Reviewed By:	PLAN NUMBER
Sign: _____ PRINT Name: _____	Date: _____	Initials: _____ Date: _____

NO.	APPROVED REVISIONS	BY	DATE	ENGINEER OF WORK SEAL	ENGINEER OF WORK COMPANY LOGO
(X)					

CITY NAVD88 BENCHMARK

Description: _____

Location: _____

Record From: _____

Elev.: _____ Datum: _____