

GENERAL NOTES

1. THE CONTRACTOR SHALL NOTIFY THE SAN DIEGO GAS AND ELECTRIC COMPANY, PACIFIC TELEPHONE AND TELEGRAPH COMPANY PRIOR TO STARTING WORK NEAR COMPANY FACILITIES AND SHALL COORDINATE THEIR WORK WITH COMPANY REPRESENTATIVES. ALL TELEPHONE SERVICES WITHIN THIS SUBDIVISION ARE UNDERGROUND INSTALLATION. FOR LOCATION OF ELECTRIC CABLE, GAS PIPING, TELEPHONE CABLES APPURTENANCES, CONTACT (UNDERGROUND SERVICE ALERT) 8-1-1. ALSO REFER TO CITY STANDARDS.
2. 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.
3. 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
4. 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 WATER, SEWER, AND RECYCLED DESIGN & CONSTRUCTION MANUAL; AND CITY OF OCEANSIDE ENGINEER'S DESIGN AND PROCESSING MANUAL ( OCEANSIDE ENGINEERS MANUAL).
5. 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.
6. ALL METALS PLACED IN THE GROUND SHALL BE ENCASED IN 6 INCHES OF SE-30 SAND.
7. CONSTRUCTION EXPANSION JOINTS IN CURB AND GUTTER AT RETURNS AND AT DRIVEWAY INTERSECTIONS IS REQUIRED PER (SDRSD) G-9 AND G-10.
8. 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.
9. 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.
10. SOILS REPORTS FOR ALL TRENCHES SHALL BE SUBMITTED TO THE ENGINEER OF WORK AND THE CITY ENGINEER BY THE SOILS ENGINEER OF RECORD, WHICH CERTIFIES THAT TRENCH BACKFILL WAS COMPACTED AS DIRECTED BY THE SOILS ENGINEER IN ACCORDANCE WITH EARTH EARTHWORK SPECIFICATIONS AND CITY OF OCEANSIDE SPECIFICATIONS AND GRADING ORDINANCE.
11. BLUE FIRE HYDRANT MARKERS SHALL BE PLACED ON THE PAVEMENT PER CITY OF OCEANSIDE STANDARD DRAWING M-13.
12. 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). TRAFFIC CONTROL PLANS SHALL BE IN OPERATION IN ACCORDANCE WITH THE APPROVED HOURS PER THE RIGHT-OF-WAY PERMIT.
13. 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.
14. 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.
15. 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.
16. STRIPING SHALL BE DONE BY THE CONTRACTOR AT DEVELOPER'S EXPENSE UNLESS OTHERWISE DIRECTED.
17. 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.
18. REFLECTIVE PAVEMENT MARKERS TO BE INSTALLED BY CONTRACTOR ON PERMANENT STRIPING. ALL 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.
19. PATCHING OF SIDEWALK IS NOT PERMITTED.
20. DAMAGED, GOUGED, BROKEN, OR GRAFFITI-MARKED SECTIONS OF CURB, GUTTER, OR SIDEWALK SHALL BE REMOVED AND REPLACED.
21. 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.
22. 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.
23. 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.
24. THE CONTRACTOR/DEVELOPER SHALL BE RESPONSIBLE FOR IMPLEMENTING, ADMINISTERING AND MAINTAINING A CONTINUED SPACE ENTRY PROGRAM IN ACCORDANCE WITH SECTIONS 5156, 5157, AND 5158 TITLE 8, CALIFORNIA CODE OF REGULATIONS (CCR).
25. ALL UNUSED WATER SERVICES AND SEWER LATERALS SHALL BE ABANDONED IN ACCORDANCE WITH WATER UTILITIES DEPARTMENT REQUIREMENTS.

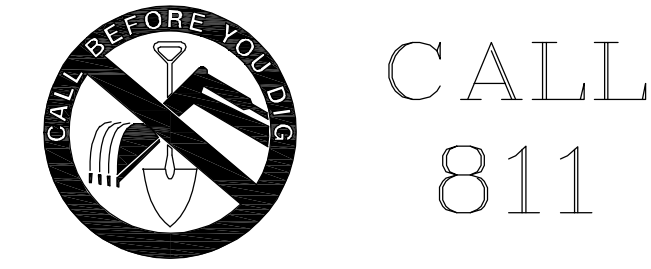
CONTRACTOR'S NOTE

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 CITY OF OCEANSIDE 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 CITY OF OCEANSIDE PROFESSIONAL.

ENGINEER'S NOTE

UNAUTHORIZED CHANGES & USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

Underground Service Alert

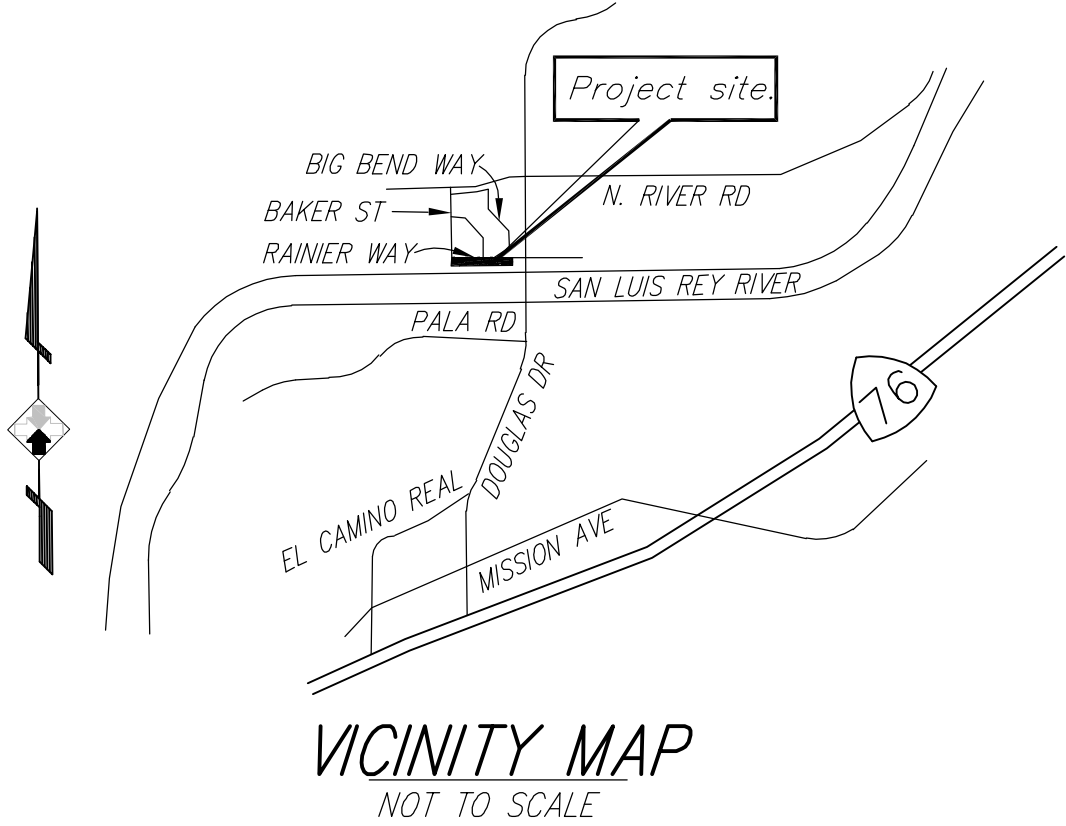


THE BASIS OF BEARINGS FOR THIS PROJECT IS THE SOUTHERLY LINE OF PARCEL MAP NO. 15555, I.E. N 89°55'07" W.

SOURCE & DATE OF TOPOGRAPHY

EXISTING TOPO BASED ON AS-BUILT DRAWINGS AND FIELD SURVEY BY ACCULINE SURVEY DATED JUNE, 2022.

# STREET IMPROVEMENTS AND WATER IMPROVEMENTS RIVERVIEW SPRINGS



STORM WATER QUALITY MANAGEMENT PLAN (SWQMP) NOTES

- A. 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).
  - B. ALL POST-CONSTRUCTION BMPs SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE APPROVED SWQMP.
  - C. 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.
  - D. 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.
  - E. 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.
  - F. 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.
  - G. 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.
  - H. ALL SLOPES THAT ARE CREATED OR DISTURBED BY CONSTRUCTION ACTIVITY MUST BE PROTECTED AGAINST ANY POTENTIAL RELEASE OF POLLUTANTS/SEDIMENT INTO THE ENVIRONMENT.
1. (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: ALIDADE ENGINEERING.

SPECIAL STORM WATER NOTES

1. THE CITY'S INSPECTOR SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING OF WORK ON STORM DRAIN PIPES AND STRUCTURES. CITY INSPECTOR NUMBER: (760) 435-5081.
2. THE CONTRACTOR MUST SECURE APPROVAL FROM THE ENGINEER OF WORK FOR LINE AND GRADE, AND THE CITY INSPECTOR PRIOR TO BACKFILL OVER ANY STORM DRAIN.
3. ALL STORM DRAIN LINES SHALL BE CLEARED OF ALL FOREIGN MATERIAL PRIOR TO CONNECTION TO THE CITY'S STORM DRAIN SYSTEM.
4. ALL STORM DRAIN PIPES 12" OR GREATER IN DIAMETER SHALL BE TELEVIEWED AT THE CONTRACTOR'S EXPENSE AND VIEWED BY THE CITY INSPECTOR PRIOR TO FINAL ACCEPTANCE. A COLOR DVD WITH A VERBAL DESCRIPTION AND A WRITTEN MANUSCRIPT OF THE PERTINENT DIALOGUE SHALL BE SUBMITTED TO THE CITY ENGINEER. THE STARTING POINT, THE DIRECTION, DISTANCE TRAVELED AND ANY PROBLEM AREAS SHALL BE NOTED.

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: \_\_\_\_\_

NOTE:

PRIVATE WATER, SEWER AND FIRE SYSTEMS SHOWN ON THESE PLANS ARE 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.

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 AND 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 (SPSPWC 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, DISINFECTANT, 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 AND CONSTRUCTION MANUAL.
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 AND 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 WATER LINES, 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 2.12.0 OF THE CITY OF OCEANSIDE'S WATER, SEWER AND RECYCLED WATER DESIGN AND 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 DRAWINGS (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 50 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 AND 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 1-1/2 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 AND 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.

WORK TO BE DONE

GRADING, DRAINAGE WORK AND IMPROVEMENTS AS SHOWN ON THESE PLANS AND IN CONFORMANCE WITH THE CURRENT SAN DIEGO REGIONAL STANDARD DRAWINGS, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK), THE CITY OF OCEANSIDE STANDARD DRAWINGS, AND PER THE CITY OF OCEANSIDE GRADING ORDINANCE 81-20.

STANDARD DRAWINGS

1. CITY OF OCEANSIDE STANDARD DRAWINGS ADOPTED 2/13/91, REVISED 8/26/92 AND REFORMATTED IN JUNE, 2004.
2. SAN DIEGO REGIONAL STANDARD DRAWINGS, 2018 EDITION.

STANDARD SPECIFICATIONS

1. STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK), 2018 EDITION INCLUDING THE REGIONAL SUPPLEMENT AMENDMENT.

OWNER/PERMITTEE:

RIVERVIEW SPRINGS, LTD  
JEFF CARTER  
3719 SOUTH PLAZA DRIVE  
SANTA ANA, CA 92704  
(714) 546-4255  
JCARTER@SPRUCEGROVEINC.COM

ASSESSOR'S PARCEL NO.:

158-30-40 AND 41

SITE ADDRESS:

RAINIER WAY AT DOUGLAS DRIVE  
OCEANSIDE, CA 92058

ACREAGE

GROSS  
NET  
DISTURBED

LEGAL DESCRIPTION

PORTIONS OF PARCELS 1 & 2 PARCEL MAP NO. 15555, IN THE CITY OF OCEANSIDE, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA.

SHEET INDEX:

SHEET 1 TITLE AND GENERAL NOTES  
SHEET 2 DETAILS AND STREET SECTIONS  
SHEET 3 STREET IMPROVEMENT PLAN  
SHEET 4 SIGNING AND STRIPING PLAN  
SHEET 5 TRAFFIC SIGNAL MODIFICATION PLAN  
SHEET 6-9 WATER IMPROVEMENT PLAN

ENGINEER OF WORK:

ALIDADE ENGINEERING  
28936 OLD TOWN FRONT STREET, # 205  
TEMECULA, CA 92590  
(951) 587-2020  
BRENT@ALIDADE@ATT.NET

SOILS ENGINEER:

DYNAMIC GEOTECHNICAL SOLUTIONS  
27570 COMMERCE CENTER DRIVE, SUITE 128  
TEMECULA, CA 92590  
(951) 297-2450  
KYLE@DYNAMICGEOTECH.COM

FEMA

FLOOD ZONE DESIGNATION: ZONE X (SHADED) AND ZONE A99  
BASE FLOOD ELEVATION (BFE): 59.4 (BLDG 1), 59.7 (BLDG 2)  
60.0 (BLDG 3), 60.3 (BLDG 4)  
60.7 (BLDG 5), 61.0 (BLDG 6)

FIRM PANEL NO. AND SUFFIX: 06073C0752H  
FIRM EFFECTIVE DATE: 05/16/2012  
FEMA CLOMR CASE NO.: 18-09-0277C

SHOW FLOOD PLAN AND FLOOD WAY LIMITS ON PLANS  
(WHEN APPLICABLE): N/A

REFERENCE DRAWINGS:

215/201 SAN LUIS REY RIVER FLOOD CONTROL PROJECT  
W-1152 RIVERVIEW VILLAS WATER IMPROVEMENT PLANS  
1397 RIVERVIEW VILLAS IMPROVEMENT PLANS (PHASE 1)  
1492 RIVERVIEW VILLAS GRADING PLANS  
1503 RIVERVIEW VILLAS GRADING AND IMPROVEMENT PLANS (PHASES 2 & 3)  
2207 BRISBANE GRADING & DRAINAGE PLANS  
R-9506 THRU R-9511 RIVERVIEW VILLAS IMPROVEMENT PLANS (PHASES 2 & 3)  
R-3746 THRU R-3747 NORTH RIVER ROAD IMPROVEMENT PLANS

ABBREVIATIONS

|      |                  |       |                                      |
|------|------------------|-------|--------------------------------------|
| AC   | ASPHALT CONCRETE | LT    | LEFT                                 |
| C&G  | CURB & GUTTER    | M.E.  | MATCH EXISTING                       |
| CL   | CENTERLINE       | P     | PAVEMENT                             |
| FL   | FLOW LINE        | PCR   | POINT OF CURB RETURN                 |
| FS   | FINISHED SURFACE | PVT   | PRIVATE                              |
| G.B. | GRADE BREAK      | R     | RIGHT                                |
| LIP  | LIP OF GUTTER    | SDRSD | SAN DIEGO REGIONAL STANDARD DRAWINGS |
|      |                  | STA   | STATION                              |
|      |                  | STD   | STANDARD                             |
|      |                  | TC    | TOP OF CURB                          |
|      |                  | TC/P  | ZERO FACE CURB                       |

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.

PREPARED BY:



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TEMECULA, CA 92590  
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FAX: (951) 587-2626

LEGEND:

| ITEM                                      | STANDARD DWG.   | SYMBOL    | QUANTITY |
|-------------------------------------------|-----------------|-----------|----------|
| PROJECT BOUNDARY                          |                 | ----      |          |
| RIGHT-OF-WAY                              |                 | ----      |          |
| EASEMENT                                  |                 | ----      |          |
| EXISTING LIP OF GUTTER ELEVATION          |                 | LIP 60.00 |          |
| EXISTING TOP OF CURB GRADE                |                 | TC 60.00  |          |
| EXISTING FLOW LINE GRADE                  |                 | FL 60.00  |          |
| EXISTING PAVEMENT GRADE                   |                 | P 60.00   |          |
| EXISTING FINISH GROUND ELEVATION          |                 | 60.0      |          |
| EXISTING CURB                             |                 | =====     |          |
| EXISTING CURB AND GUTTER                  |                 | =====     |          |
| EXISTING PEDESTRIAN RAMP                  |                 |           |          |
| EXISTING CABLE TV VAULT                   |                 |           |          |
| EXISTING SIGN                             |                 |           |          |
| EXISTING WATER MAIN                       |                 |           |          |
| EXISTING WATER VALVE                      |                 |           |          |
| EXISTING ELECTRICAL VAULT                 |                 |           |          |
| EXISTING TRAFFIC SIGNAL                   |                 |           |          |
| EXISTING STREET LIGHT                     |                 |           |          |
| EXISTING CROSS-GUTTER                     |                 | =====     |          |
| EXISTING TREE                             |                 |           |          |
| EXISTING MONUMENT WALL                    |                 |           |          |
| PROPOSED EXPANDED DRIVEWAY RETURN         | O'SIDE STD M-10 |           |          |
| PROPOSED PCC SIDEWALK                     |                 |           |          |
| PROPOSED 6" TYPE 'G' CURB                 | SDRSD G-1       | =====     | 1 EA     |
| PROPOSED 0" TYPE 'G' CURB                 | SDRSD G-1       | =====     | 6 EA     |
| PROPOSED 6" TYPE 'G' CURB AND GUTTER      | SDRSD G-2       | =====     | 6 EA     |
| PROPOSED AC PAVEMENT                      |                 |           |          |
| PROPOSED GRIND AND OVERLAY                |                 |           |          |
| PROPOSED SAW CUT LINE                     |                 | -----     |          |
| PROPOSED ELEVATION                        |                 | 70.41     |          |
| PROPOSED 1" IRRIGATION SERVICE            | (STD DWG W-4)   |           |          |
| PROPOSED 1" WATER SERVICE                 | (STD DWG W-4)   |           |          |
| PROPOSED 2" FIRE SERVICE                  | (STD DWG W-4)   |           |          |
| PROPOSED TRENCH RESURFACING               | (STD DWG M-3A)  |           |          |
| ( ) = CITY OF OCEANSIDE STANDARD DRAWINGS |                 |           |          |

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 THE 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 NEGLIGENCE ACTS, ERRORS OR OMISSIONS OF THE ENGINEER OF WORK, MY EMPLOYEES, AGENTS OR CONSULTANTS.

BRENT C. MOORE RCE 59121 DATE

UTILITY COMPANY

AT&T  
COX  
SAN DIEGO GAS AND ELECTRIC (SDG&E)  
WATER UTILITIES (CITY)  
TRAFFIC SIGNAL MAINTENANCE (CITY)  
NORTH COUNTY TRANSIT DISTRICT (NCTD)

EMERGENCY NO.

1 (800) 924-9420  
1 (800) 234-3993  
1 (800) 611-7343  
1 (760) 435-5800  
1 (760) 435-4500  
1 (760) 966-6500



WDID NO. FILE NO. D16-00017

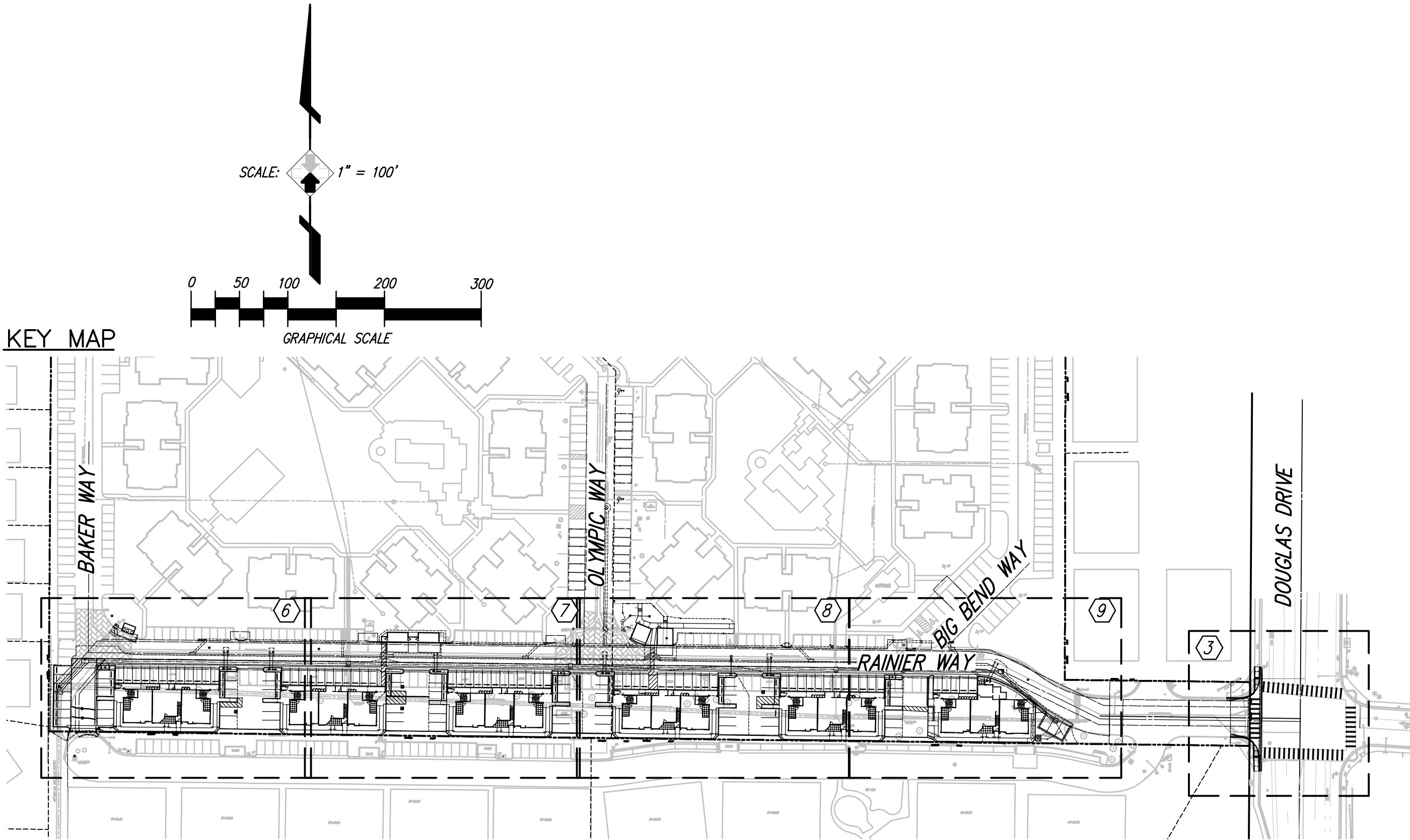
|                                                                         |                                           |             |
|-------------------------------------------------------------------------|-------------------------------------------|-------------|
| SHEET<br>1                                                              | CITY OF OCEANSIDE<br>ENGINEERING DIVISION | 9<br>SHEETS |
| STREET IMPROVEMENT PLAN FOR<br><b>RIVERVIEW SPRINGS</b>                 |                                           |             |
| ACCEPTED BY:<br>CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date: _____ |                                           |             |
| Prepared under the direction of:                                        | Reviewed By:                              | PLAN NUMBER |
| Sign: PRINT Name: BRENT C. MOORE Date: _____                            | Initials: _____ Date: _____               | R22-00021   |

SPECIAL NOTES:

THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF ANY OF THESE NOTES, AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.

1. NEITHER THE OWNER NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
2. CONTRACTOR WILL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS, IF REVISIONS ARE NECESSARY BECAUSE OF LOCATION OF EXISTING FACILITIES. CONTRACTOR SHALL REQUEST DIRECTION BEFORE DOING WORK FROM THE ENGINEER OF WORK FOR CLARIFICATIONS.
3. BEFORE EXCAVATING FOR THIS CONTRACT, VERIFY LOCATION OF UNDERGROUND UTILITIES. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM AVAILABLE RECORDS ONLY AND MAY NOT REFLECT ALL EXISTING UTILITIES. LOCATIONS OF ALL EXISTING UTILITIES SHALL BE CONFIRMED BY FIELD MEASUREMENTS BY CONTRACTOR PRIOR TO CONSTRUCTION OF WORK.
4. CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN HEREON AND ANY OTHER EXISTING LINES NOT OF RECORD OR SHOWN ON THESE PLANS.
5. CONTRACTOR SHALL HIRE A REGISTERED GEOTECHNICAL ENGINEER AT HIS/HER EXPENSE TO TEST AND CERTIFY\* THAT ALL PAVED AREAS, AREAS TO RECEIVE PAVEMENT, TRENCH BACKFILL, BUILDING PADS AND CONSTRUCTED SLOPES ARE COMPACTED PER RECOMMENDATIONS IN THESE PLANS OR PER INDUSTRY STANDARDS IF NO RECOMMENDATIONS ARE GIVEN.  
\* AS DEFINED IN AND LIMITED IN SECTION 6735.5 OF THE BUSINESS AND PROFESSIONAL CODE OF CALIFORNIA.
6. SAFETY FENCES SHALL BE PROVIDED BY THE CONTRACTOR WHERE REQUIRED BY THE CITY ENGINEER.
7. DURING ACTIVE CONSTRUCTION, AREAS SHALL BE WATERED TO REDUCE FUGITIVE DUST.
8. CONTRACTOR TO ADJUST ALL PROPOSED AND EXISTING FACILITIES TO GRADE.
9. CONTRACTOR TO REMOVE/REPLACE/RELOCATE ALL EXISTING FACILITIES REQUIRED TO INSTALL PROPOSED IMPROVEMENTS.
10. CONTRACTOR TO REMOVE/REPLACE/RELOCATE ANY LANDSCAPING/HARDSCAPING WHICH CONFLICTS IN ANY WAY WITH THE INSTALLATION OR PROPER FUNCTIONING OF THE PROPOSED IMPROVEMENTS.
11. ALL PROPOSED STORM DRAIN FACILITIES ARE PRIVATE UNLESS OTHERWISE NOTED.
12. REFER TO ARCHITECT'S PLAN FOR HARDSCAPE LAYOUT & SPECIFICATIONS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE QUANTITIES SHOWN HEREON AND BALANCING THE EARTHWORK ONSITE. IF THE SITE CANNOT BE BALANCED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL IMPORT OR EXPORT OF MATERIALS. ALL ADJUSTMENTS MUST BE PRESENTED TO ENGINEER OF WORK WITH ADEQUATE TIME FOR REVISIONS PRIOR TO CONSTRUCTION. ONLY IN SUCH CASES AS REQUESTED BY THE CONTRACTOR SHALL THE ENGINEER OF WORK PROVIDE AREAS OF ELEVATION ADJUSTMENT TO THE APPROVED PLANS AT THE LIABILITY OF THE CONTRACTOR.
14. THE CONTRACTOR SHALL BE RESPONSIBLE TO INSURE THAT ALL SLOPES ARE BUILT IN ACCORDANCE WITH THESE PLANS. IF THERE IS ANY QUESTION REGARDING THESE PLANS OR FIELD STAKES, THE CONTRACTOR SHALL REQUEST AN INTERPRETATION BEFORE DOING ANY WORK BY CALLING THE ENGINEER OF WORK.
15. THE CONTRACTOR SHALL UNCOVER ALL UTILITIES THAT MAYBE JOINED, CROSSED, OR PARALLELED TO VERIFY BOTH HORIZONTAL AND VERTICAL LOCATION PRIOR TO ANY CONSTRUCTION. ANY CONFLICT OR DISCREPANCY SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION. OTHERWISE THE CONTRACTOR ACCEPTS FULL RESPONSIBILITY FOR ANY ADDITIONAL CONSTRUCTION OR RELOCATION COSTS.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING, RELOCATING, AND/OR REMOVAL OF EXISTING UTILITIES.
17. THE CONTRACTOR SHALL REPLACE ALL DESTROYED OR DAMAGED SURFACE IMPROVEMENTS WITH IMPROVEMENT EQUAL OR SUPERIOR.
18. SURVEY MONUMENTS SHALL BE PRESERVED & REFERENCED BEFORE CONSTRUCTION & REPLACED AFTER CONSTRUCTION PURSUANT TO SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE.
19. CONTRACTOR SHALL NOTIFY SAN DIEGO GAS & ELECTRIC, SPECTRUM, XFINITY, COX COMMUNICATIONS, AT&T, BENTEL COMMUNICATIONS, AND TEL-PATH COMMUNICATIONS PRIOR TO WORK NEAR COMPANY FACILITIES AND SHALL COORDINATE HIS WORK WITH COMPANY REPRESENTATIVES.
20. CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF OTHER CONTRACTORS WORKING ON THE SITE, INCLUDING GRADING, DRAINAGE, LANDSCAPING AND IRRIGATION.
21. CONTRACTOR SHALL MEET THE INTENT OF THESE PLANS. IF GRADE STAKE CONFLICT WITH THE INTENT OF THE PLANS, CONTRACTOR SHALL NOTIFY ENGINEER OF WORK PRIOR TO WORK BEING PERFORMED.
22. 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 HOUR, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CITY OF OCEANSIDE 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 CITY OF OCEANSIDE PERSONNEL.
23. GRADING QUANTITIES ARE GEOMETRIC ESTIMATES FOR PERMIT PURPOSES ONLY AND ARE NOT TO BE USED FOR BID OR FINAL PAY QUANTITIES. CONTRACTOR SHALL BE REQUIRED TO CREATE A FINAL EARTHWORK PRIOR TO ANY ONSITE CONSTRUCTION. THIS EARTHWORK SHALL ACCOUNT FOR SUBSIDENCE, SHRINKAGE, UNDERCUTS, PROJECT PHASING, SEQUENCING, OVER-EXCAVATION AND ET CETERA. SHOULD ANY DISCREPANCY ARISE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF WORK IMMEDIATELY.

KEY MAP

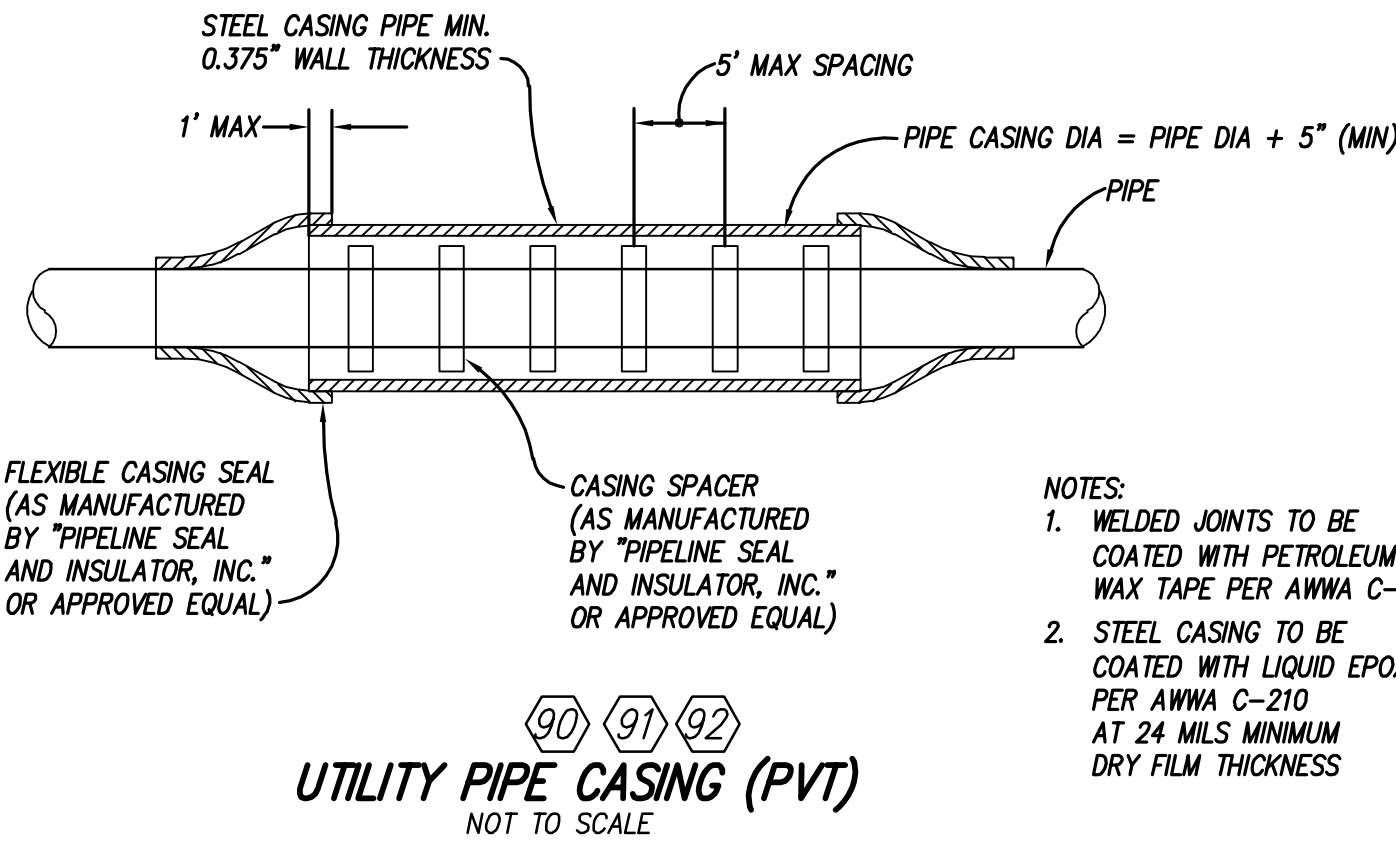


LEGEND

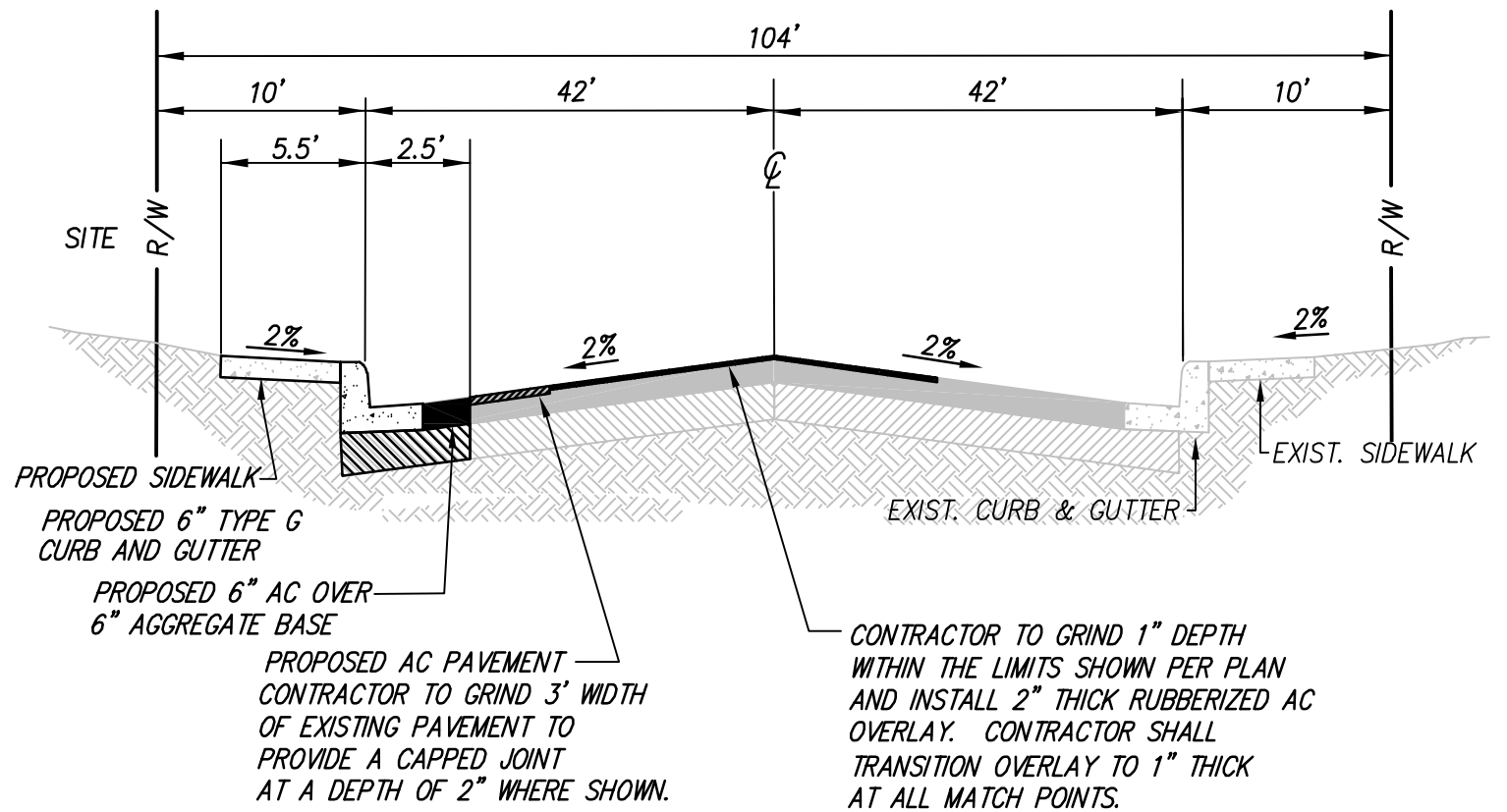
| ITEMS        | SYMBOL      |
|--------------|-------------|
| BOUNDARY     | ---         |
| SHEET NUMBER | (X)         |
| STREET NAME  | RAINIER WAY |
| SHEET LIMITS | ---         |

EASEMENT NOTES

1. EASEMENT FOR DRAINAGE STRUCTURES AND SLOPES TO THE COUNTY OF SAN DIEGO PER DOC. REC. 05-25-38 IN BK 782, PG 266, O.R. LIES WITHIN THE DOUGLAS RD R-0-W.
2. HIGHWAY EASEMENT TO THE STATE OF CALIFORNIA PER DOC. REC. 2-19-44 IN BK 1641, PG 90, I.E. LIES WITHIN THE DOUGLAS RD R-0-W.
3. WATER EASEMENT TO THE CITY OF OCEANSIDE PER DOC. REC. 02-7-55 IN BK 5522, PG 265 AND 268, O.R.
4. SEWER EASEMENT TO THE CITY OF OCEANSIDE PER DOC. REC. 12-04-70 AS FILE NO. 222381, O.R. LIES WITHIN DOUGLAS RD R-0-W.
5. WATER EASEMENT TO THE CITY OF OCEANSIDE PR PARCEL MAP NO. 15555.
6. EASEMENT TO SDG&E PER DOC. REC. 8-14-90 AS F/P NO. 90-444385, O.R. IS A GENERAL EASEMENT WITH NO EXACT LOCATION SET FORTH AND CANNOT BE PLOTTED ON THIS PLAN.
7. EASEMENT TO MILLISAT INCORPORATED PER DOC. REC. 12-07-90 AS F/P NO. 90-654392, O.R. IS A GENERAL EASEMENT WITH NO EXACT LOCATION SET FORTH AND CANNOT BE PLOTTED ON THIS PLAN.
8. EASEMENT TO PACIFIC BELL PER DOC. REC. 12-26-90 AS F/P NO. 90-681689, O.R. IS A GENERAL EASEMENT WITH NO EXACT LOCATION SET FORTH AND CANNOT BE PLOTTED ON THIS PLAN.
9. EASEMENT TO SDG&E PER DOC. REC. 2-13-91 AS F/P NO. 91-0068399, O.R. IS A GENERAL EASEMENT WITH NO EXACT LOCATION SET FORTH AND CANNOT BE PLOTTED ON THIS PLAN.
10. EASEMENT TO PACIFIC BELL PER DOC. REC. 2-07-92 AS F/P NO. 92-0067092, O.R. IS A GENERAL EASEMENT WITH NO EXACT LOCATION SET FORTH AND CANNOT BE PLOTTED ON THIS PLAN.
11. GENERAL UTILITY AND ACCESS EASEMENT PER DOC. REC. 7-30-2002 AS F/P NO. 2002-0638735, O.R.
12. GENERAL UTILITY, VEHICULAR, PEDESTRIAN AND ACCESS EASEMENT PER DOC. REC. 3-11-2003 AS F/P NO. 2003-0271760, O.R.
13. EASEMENT TO SDG&E PER DOC. REC. 5-29-03 AS F/P NO. 2003-0628085, O.R.
14. STORM DRAIN EASEMENT PER DOC. REC. 3-11-2003 AS F/O NO. 2003-071760, O.R.
15. PROPOSED EMERGENCY ACCESS EASEMENT PER DOC. REC. \_\_\_\_\_ AS F/P NO. \_\_\_\_\_, O.R.
16. PROPOSED GENERAL UTILITY AND ACCESS EASEMENT PER DOC. REC. \_\_\_\_\_ AS F/P NO. \_\_\_\_\_, O.R.

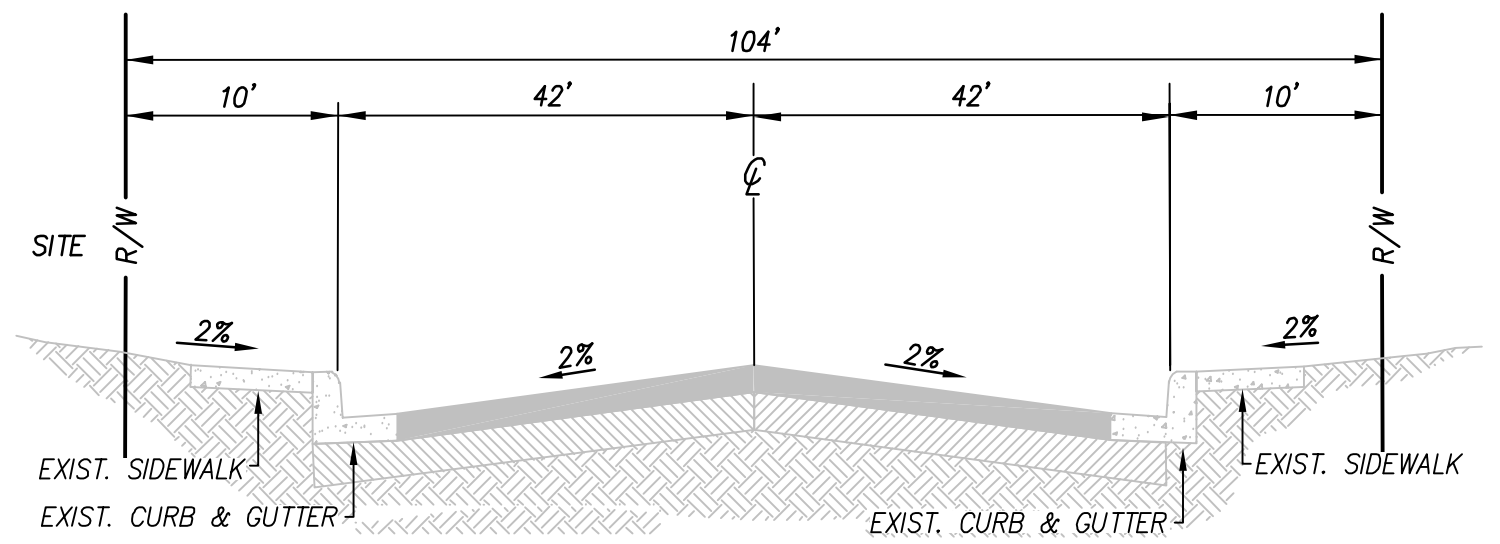


- NOTES:
1. WELDED JOINTS TO BE COATED WITH PETROLEUM WAX TAPE PER AWWA C-217
  2. STEEL CASING TO BE COATED WITH LIQUID EPOXY PER AWWA C-210 AT 24 MILS MINIMUM DRY FILM THICKNESS



TYPICAL STREET SECTION-PROPOSED DOUGLAS DRIVE

NOT TO SCALE



TYPICAL STREET SECTION-EXIST. DOUGLAS DRIVE

NOT TO SCALE

PREPARED BY:



28936 OLD TOWN FRONT STREET, # 205  
TEMECULA, CA 92590  
PH: (951) 587-2020  
FAX: (951) 587-2626



| NO. | APPROVED REVISIONS | BY | DATE |
|-----|--------------------|----|------|
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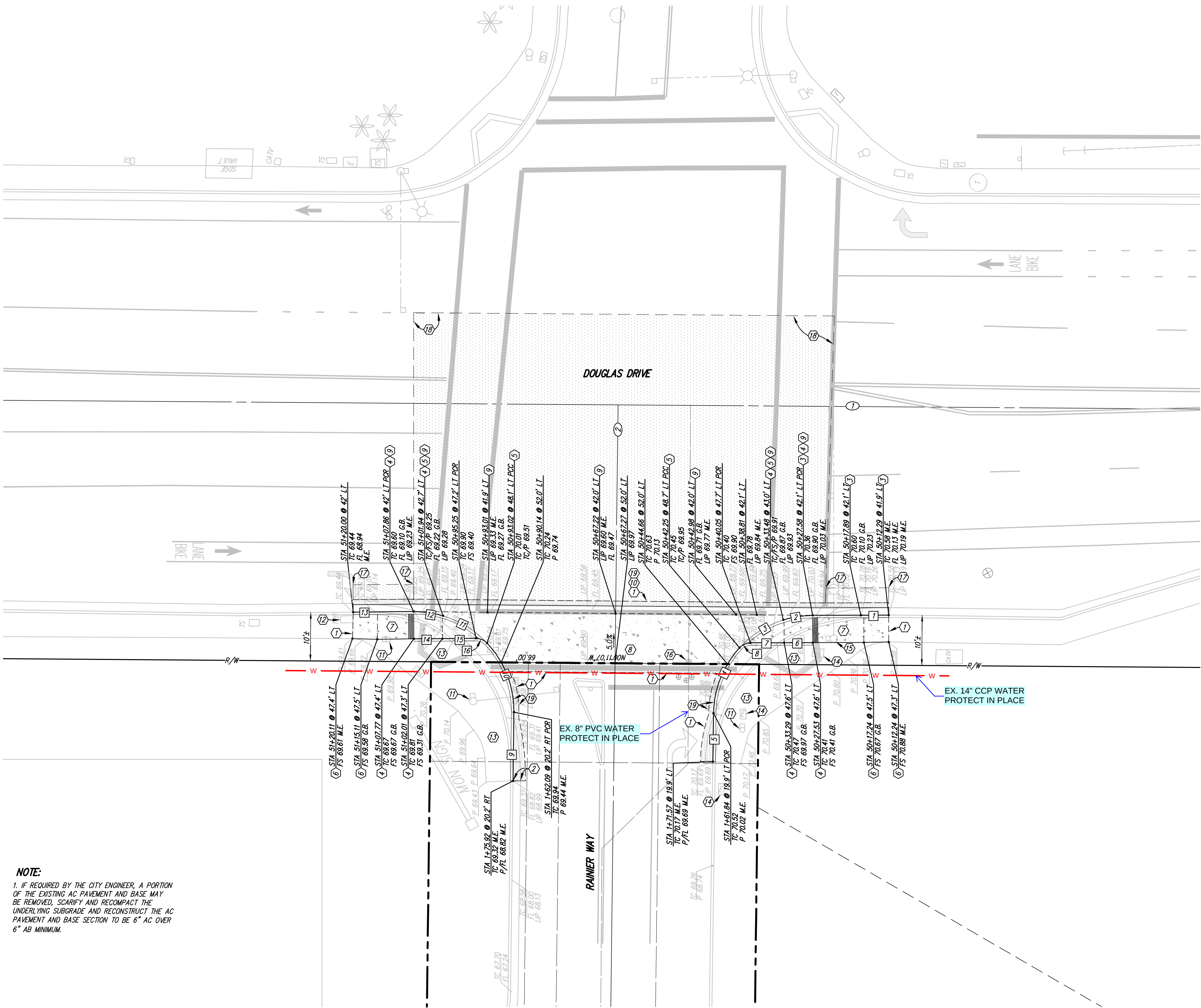
| CITY NAVD88 BENCHMARK                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------|
| Description: STATION NO. 1031 - 3.5" BRASS DISK IN MONUMENT                                                                      |
| Well: _____                                                                                                                      |
| Location: EASTERLY OF 2 MONUMENT WELLS AT CL OF SWEETSHADE ST. & ARBOR COVE CIR. MONUMENT IS NOT THE CENTER POINT OF CUL-DE-SAC. |
| Record From: CITY OF OCEANSIDE GEODETIC CONTROL NETWORK                                                                          |
| Elev: ELEV=61.11                                                                                                                 |
| Datum: NAVD 88                                                                                                                   |

WDID NO. FILE NO. D16-00017

|         |                                        |          |
|---------|----------------------------------------|----------|
| SHEET 2 | CITY OF OCEANSIDE ENGINEERING DIVISION | 9 SHEETS |
|---------|----------------------------------------|----------|

|                             |  |
|-----------------------------|--|
| STREET IMPROVEMENT PLAN FOR |  |
| RIVERVIEW SPRINGS           |  |

|                                             |                                 |
|---------------------------------------------|---------------------------------|
| ACCEPTED BY:                                |                                 |
| CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 | Date: _____                     |
| Prepared under the direction of:            | Reviewed By: PLAN NUMBER        |
| Sign: PRINT Name: BRENT C. MOORE            | Date: Initials: Date: R22-00021 |



CONSTRUCTION NOTES:

- 1 SAWCUT
- 2 TRANSITION AC PAVEMENT AND AGGREGATE BASE TO MATCH SLOPE OF EXISTING CURB AND GUTTER SECTION AT THE JOIN POINT.
- 3 CONSTRUCT VARIED HEIGHT CURB AND GUTTER PER SDPSD G-2 TO MATCH EXISTING CONDITIONS AND TO REDUCE THE SLOPE OF THE PROPOSED PEDESTRIAN RAMP. ELEVATIONS SHOWN PER PLAN.
- 4 CONSTRUCT VARIED HEIGHT CURB PER SDPSD G-1 AT PROPOSED PEDESTRIAN RAMP PER CITY OF OCEANSIDE STANDARD DRAWING M-10. ELEVATIONS SHOWN PER PLAN.
- 5 CONSTRUCT ZERO HEIGHT CURB PER SDPSD G-1 AT THE BOTTOM OF THE PROPOSED PEDESTRIAN RAMP PER CITY OF OCEANSIDE STANDARD DRAWING M-10. ELEVATIONS SHOWN PER PLAN.
- 6 CONSTRUCT SIDEWALK TRANSITION OVER 6" CLASS II BASE TO MATCH EXISTING SIDEWALK AT LIMITS OF WORK. ELEVATIONS SHOWN PER PLAN.
- 7 CONSTRUCT PCC SIDEWALK PER SDPSD G-7, G-9 AND G-10 OVER 6" CLASS II BASE. ELEVATIONS SHOWN PER PLAN.
- 8 CONSTRUCT EXPANDED DRIVEWAY RETURN PER CITY OF OCEANSIDE STANDARD DRAWING M-10. ELEVATIONS SHOWN PER PLAN.
- 9 CONSTRUCT GUTTER FLOW LINE TRANSITION FROM STANDARD GUTTER FALL (0.13' BELOW LIP OF GUTTER) TO REDUCED GUTTER FALL AT PROPOSED PEDESTRIAN CROSSING (0.06' BELOW LIP OF GUTTER). ELEVATIONS SHOWN PER PLAN.
- 10 EXTEND LIMITS OF SAWCUT INTO DOUGLAS DRIVE AS NECESSARY TO PROVIDE A SMOOTH TRANSITION TO THE PROPOSED LIP OF GUTTER CONSTRUCTED AS PART OF THE EXPANDED DRIVEWAY RETURN.
- 11 PROTECT EXISTING TRAFFIC SIGNAL POLE IN PLACE.
- 12 PROTECT EXISTING TRAFFIC SIGNAL PULL BOX IN PLACE.
- 13 REMOVE AND PROPERLY DISPOSE OF OFFSITE EXISTING CURB RAMPS AND ASSOCIATED SIDEWALK. INSTALL NEW BACKFILL AS NECESSARY TO PROVIDE POSITIVE DRAINAGE TOWARDS THE STREET FROM THE EXISTING BACK OF SIDEWALK TO THE LIMITS OF THE PROPOSED IMPROVEMENTS.
- 14 PROTECT EXISTING HAND HOLE IN PLACE.
- 15 EXISTING TRAFFIC SIGNAL POLE TO BE RELOCATED. SEE TRAFFIC SIGNAL PLANS FOR PROPOSED LOCATION.
- 16 ADJUST EXISTING WATER VALVE TO GRADE.
- 17 CONTRACTOR SHALL COLD PLANE AND OVERLAY A MINIMUM OF 3' WIDE SECTION OF 2" AC PAVEMENT ADJACENT TO THE SAWCUT LINE IN ORDER TO CREATE A CAPPED JOINT TO THE SATISFACTION OF THE CITY ENGINEER.
- 18 CONTRACTOR SHALL COLD PLANE THE EXISTING AC PAVEMENT 1" WITHIN THE LIMITS SHOWN. CONTRACTOR SHALL THEN INSTALL 2" THICK RUBBERIZED AC OVERLAY THAT GETS FEATHERED TO A 1" THICK RUBBERIZED AC OVERLAY AT THE MATCH POINTS.
- 19 CONSTRUCT 6" AC OVER 6" AGGREGATE BASE WITHIN THE LIMITS SHOWN. PAVEMENT SECTION TO BE VERIFIED BY THE GEOTECHNICAL ENGINEER OF WORK PRIOR TO INSTALLATION TO THE SATISFACTION OF THE CITY ENGINEER.

NOTE:

1. IF REQUIRED BY THE CITY ENGINEER, A PORTION OF THE EXISTING AC PAVEMENT AND BASE MAY BE REMOVED, SCARIFY AND RECOMPACT THE UNDERLYING SUBGRADE AND RECONSTRUCT THE AC PAVEMENT AND BASE SECTION TO BE 6" AC OVER 6" AB MINIMUM.

SEE SHEETS 4 AND 5 PREPARED BY OTHERS FOR PROPOSED TRAFFIC SIGNAL PLAN AND SIGNAGE AND STRIPING PLANS.

CONTRACTOR TO REMOVE AND PROPERLY DISPOSE OF OFFSITE ALL EXISTING IMPROVEMENTS, LANDSCAPING, UTILITIES, DEBRIS ETC. WITHIN LIMITS OF WORK, UNLESS OTHERWISE SHOWN.

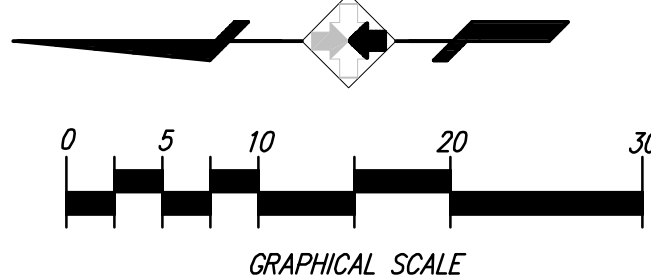
SEE GRADING PLAN C22-00031 FOR PROPOSED ON-SITE IMPROVEMENTS AND GRADING.

CAUTION!

THE LOCATION OF THE EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL ADJUST ALL EXISTING AND PROPOSED UTILITY RIMS TO FINISHED GRADE/ FINISHED SURFACE WITHIN LIMITS OF WORK

PLAN: DOUGLAS DRIVE  
SCALE: 1"=10'



PREPARED BY:



28936 OLD TOWN FRONT STREET, #205  
TEMECULA, CA 92590  
PH: (951) 587-2020  
FAX: (951) 587-2626

CENTERLINE DATA

| NO. | DELTA OR BRG.  | RADIUS  | LENGTH | REMARKS                  |
|-----|----------------|---------|--------|--------------------------|
| 1   | N 002°51'11" W | 817.30' |        | CENTERLINE DOUGLAS DRIVE |
| 2   | N 89°18'20" W  | 206.86' |        | CENTERLINE RAINIER WAY   |
| 3   |                |         |        |                          |
| 4   |                |         |        |                          |

CITY NAVD88 BENCHMARK

Description: STATION NO. 1031 - 3.5" BRASS DISK IN MONUMENT  
WELL:  
Location: EASTERLY OF 2 MONUMENT WELLS AT CL OF SWEETSHADE ST. & ARBOR COVE CIR. MONUMENT IS NOT THE CENTER POINT OF  
CUL-DE-SAC. CITY OF OCEANSIDE GEODETIC CONTROL NETWORK  
Record From:  
Elev: ELEV=61.11 Datum: NAVD 88

CURB DATA

| NO. | DELTA OR BRG. | RADIUS | LENGTH | REMARKS                      |
|-----|---------------|--------|--------|------------------------------|
| 1   | N 00°09'18" W | 15.29' |        | VARIED HEIGHT TYPE G-2 C & G |
| 2   | 17°11'19" "   | 20.00' | 6.00'  | VARIED HEIGHT TYPE G-1 CURB  |
| 3   | 30°14'34" "   | 20.00' | 10.56' | 0" TYPE G-1 CURB             |
| 4   | 41°35'43" "   | 20.00' | 14.52' | 6" TYPE G-1 CURB             |
| 5   | N 89°10'55" W | 9.73'  |        | VARIED HEIGHT TYPE G-1 CURB  |
| 6   | N 00°09'18" W | 5.76'  |        | VARIED HEIGHT TYPE G-1 CURB  |
| 7   | N 00°09'18" W | 6.76'  |        | 6" TYPE G-1 CURB             |
| 8   | 47°25'54" "   | 3.00'  | 2.48'  | 6" TYPE G-1 CURB             |
| 9   | N 89°18'52" W | 13.83' |        | 6" TYPE G-1 CURB             |
| 10  | 43°47'40" "   | 20.00' | 15.29' | 6" TYPE G-1 CURB             |
| 11  | 30°15'10" "   | 20.00' | 10.56' | 0" TYPE G-1 CURB             |
| 12  | 17°10'44" "   | 20.00' | 6.00'  | VARIED HEIGHT TYPE G-1 CURB  |
| 13  | N 00°32'25" W | 12.15' |        | 6" TYPE G-2 C & G            |
| 14  | N 00°32'25" W | 5.76'  |        | VARIED HEIGHT TYPE G-1 CURB  |
| 15  | N 00°32'25" W | 6.76'  |        | 6" TYPE G-1 CURB             |
| 16  | 47°25'54" "   | 3.00'  | 2.48'  | 6" TYPE G-1 CURB             |

WDID NO.

FILE NO. D16-00017

SHEET  
3

CITY OF OCEANSIDE  
ENGINEERING DIVISION

9  
SHEETS

STREET IMPROVEMENT PLAN FOR

DOUGLAS DRIVE AT RAINIER WAY

ACCEPTED BY:

CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907

Date:

Prepared under the direction of:

Reviewed By:

PLAN NUMBER

Sign: PRINT Name: BRENT C. MOORE

Date:

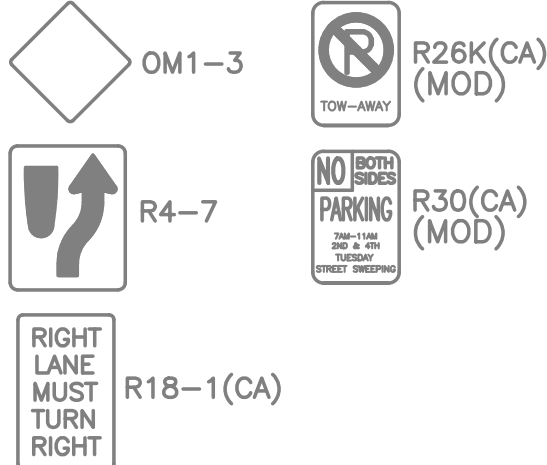
Initials: Date:

R22-00021

LEGEND (THIS SHEET ONLY)

- EXISTING STRIPING TO BE REMOVED
- EXISTING STRIPING
- PROPOSED STRIPING
- EXISTING ROADSIDE SIGN
- EXISTING PAVEMENT ARROW
- GR REMOVE CONFLICTING EXISTING STRIPING BY GRINDING. ALL DEBRIS SHALL BE REMOVED BY THE END OF EACH WORK DAY.
- TS TRAFFIC SIGNAL

EXISTING SIGNS (THIS SHEET ONLY)

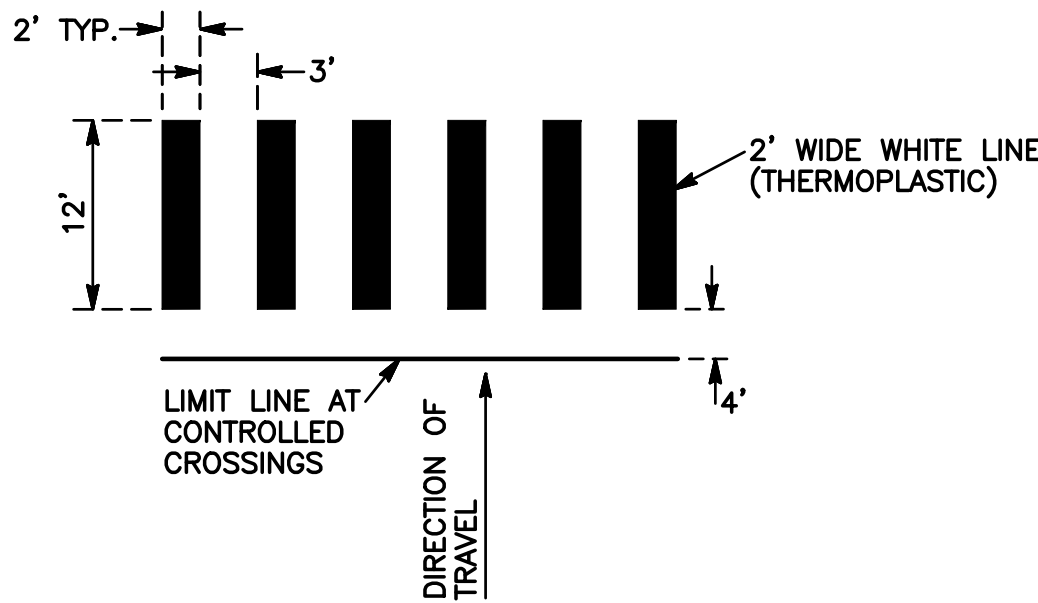
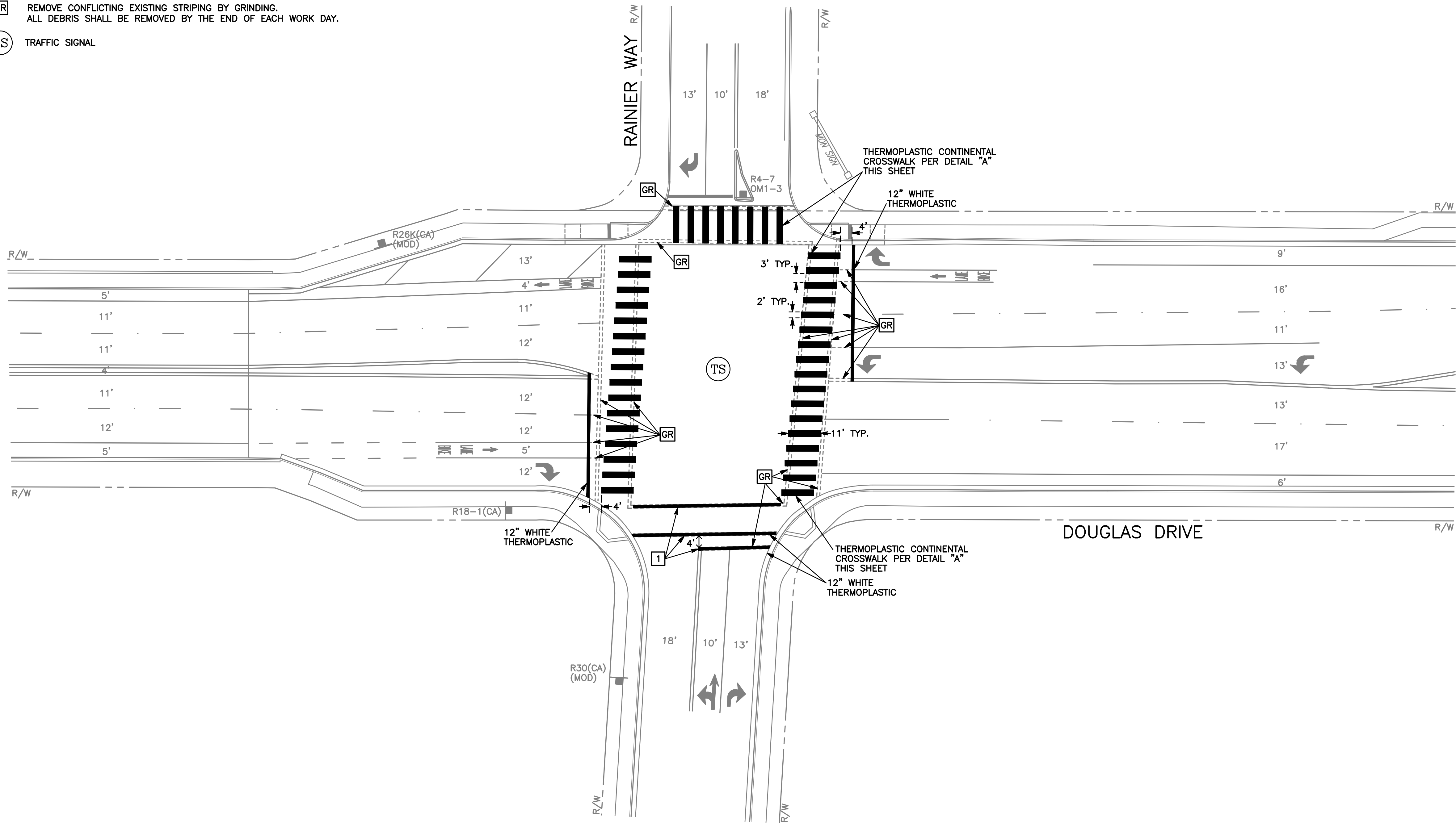


CONSTRUCTION NOTE (THIS SHEET ONLY)

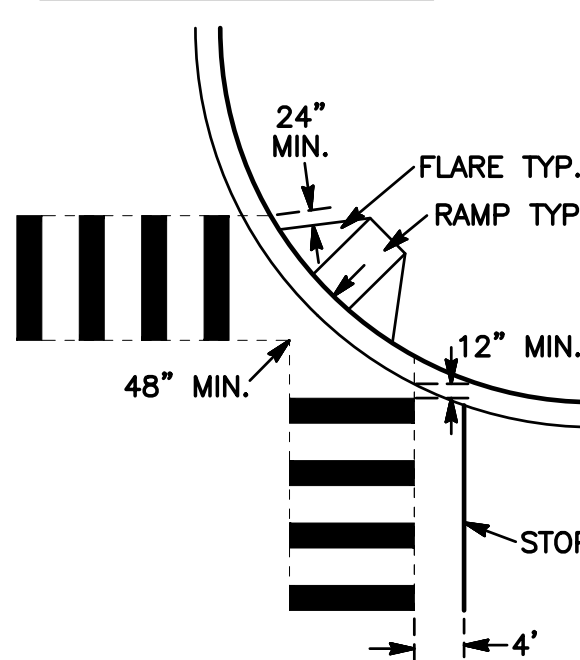
- 1 CONTRACTOR SHALL REFRESH 12-INCH THERMOPLASTIC CROSSWALK BARS AND STOP BARS AS SHOWN ON PLAN.

NOTES (THIS SHEET ONLY)

- THE CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL DURING THE INSTALLATION, REMOVAL OR MODIFICATION OF ALL SIGNING AND STRIPING SHOWN ON THIS PLAN.
- THE APPLICATION OF THE TRAFFIC CONTROL DEVICES AND THEIR PLACEMENT SHALL CONFORM TO THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (FHWA'S MUTCD 2003 REVISION 1 AS AMENDED FOR USE IN CALIFORNIA) AND SAN DIEGO REGIONAL STANDARD DRAWING M-19.
- IN ADDITION TO THE GUIDELINES PROVIDED BY THE ABOVE REFERENCED CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2014 EDITION AND THEIR PLACEMENT, THE TRAFFIC CONTROL DETAILS DESCRIBED IN SHEETS NO. T1A THROUGH T17 OF THE CALIFORNIA STANDARD PLANS DATED JULY 2004 SHALL BE USED IN SITUATION REQUIRING LANE CLOSURES OR DETOURING THE PATH OF VEHICLES IN VARIOUS STAGE OF CONSTRUCTION.
- THE LOCATIONS OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE, AND ADJUSTMENTS MAY BE REQUIRED TO MEET FIELD CONDITIONS. HOWEVER, ANY ADJUSTMENT MUST MEET REQUIREMENTS OF THE ABOVE REFERENCED MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND CITY TRAFFIC ENGINEER'S APPROVAL.
- CHANNELIZATION TYPE SHALL CONFORM TO THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (FHWA'S MUTCD 2003 REVISION 1 AS AMENDED FOR USE IN CALIFORNIA) AND CONSISTENT WITH FIELD CONDITIONS DURING CONSTRUCTION. PROVIDE SECURE COVER OVER CONFLICTING SIGNS.
- ANY DELAY IN OBTAINING PUBLIC AGENCY APPROVALS, AND/OR CONSTRUCTION OF SIGNAL OR STRIPING PLANS, MAY REQUIRE REDESIGN DUE TO CHANGES IN GOVERNMENTAL REQUIREMENTS/STANDARDS OR FIELD CONDITIONS.
- CONTRACTOR SHALL REMOVE AND SALVAGE ALL EXISTING CONFLICTING SIGNS, PAVEMENT MARKERS AND GRIND ALL CONFLICTING EXISTING STRIPING AND PAVEMENT MARKINGS.
- CONTRACTOR TO COORDINATE WITH NORTH COUNTY TRANSIT DISTRICT FOR ANY TRANSIT CHANGES/COORDINATION.
- ALL NEW SIGNS MUST BE AT LEAST HIGH INTENSITY.



SINGLE RAMP CORNER



DETAIL "A" - CROSSWALK

NOT TO SCALE  
CITY OF SAN DIEGO  
DRAWING NO. SDM-116

"DECLARATION OF ENGINEER OF WORK"

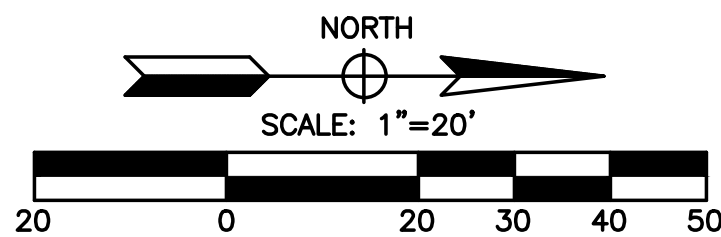
I HEREBY DECLARE THAT THE DESIGN OF THE IMPROVEMENTS AS SHOWN ON THIS PLAN COMPLIES WITH PROFESSIONAL ENGINEERING STANDARDS AND PRACTICES. AS THE ENGINEER IN RESPONSIBLE CHARGE OF THE DESIGN OF THESE IMPROVEMENTS, I ASSUME FULL RESPONSIBILITY FOR SUCH DESIGN. I UNDERSTAND AND ACKNOWLEDGE THAT THE PLAN CHECK OF THESE PLANS BY THE CITY OF OCEANSIDE IS A REVIEW FOR THE 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.

CIVIL ENGINEER OF RECORD: KALYAN C. YELLPU R.C.E. 75023 DATE

100% PRELIMINARY  
NOT FOR CONSTRUCTION

DISCLAIMER: THE INFORMATION PROVIDED BY LINSKOTT, LAW & GREENSPAN, ENGINEERS VIA ELECTRONIC MEDIA, IS NOT GUARANTEED OR WARRANTED AGAINST ANY DEFECTS, INCLUDING DESIGN, CALCULATIONS, DATA TRANSLATION, TRANSMISSION OF ERRORS OR OMISSIONS. THIS DRAWING IS PRODUCED FOR REVIEW PURPOSES ONLY AND IS SUBJECT TO CHANGE. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL FINAL PLANS ARE ISSUED AND THIS NOTE HAS BEEN REMOVED.



|                                                               |                                                                                                                |                 |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------|
| <div>LINSCOTT<br/>LAW &amp;<br/>GREENSPAN<br/>engineers</div> | LINSCOTT, LAW & GREENSPAN, ENGINEERS<br>4542 Ruffner Street, Suite 100<br>San Diego, Ca 92111<br>(858)300-8800 |                 |
| LLG 3-226652.1                                                | 1. STR1-6652.DWG                                                                                               | 2/22/23         |
| Designed By: HQL                                              | Drawn By: DVS                                                                                                  | Checked By: KCY |



| NO. | APPROVED REVISIONS | BY | DATE |
|-----|--------------------|----|------|
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CITY NAVD88 BENCHMARK  
Description: STATION NO. 1031 - 3.5" BRASS DISK IN MONUMENT WELL.  
Location: EASTERLY OF 2 MONUMENT WELLS AT CL OF SWEETSHADE ST. & ARBOR COVE CIR. MONUMENT IS NOT THE CENTER POINT OF QUL-DE-SAC. CITY OF OCEANSIDE GEODETIC CONTROL NETWORK  
Elev: ELEV=61.11 Datum: NAVD 88

WDID NO. FILE NO. D16-00017

|            |                                           |             |
|------------|-------------------------------------------|-------------|
| SHEET<br>4 | CITY OF OCEANSIDE<br>ENGINEERING DIVISION | 9<br>SHEETS |
|------------|-------------------------------------------|-------------|

SIGNING AND STRIPING PLAN FOR  
**DOUGLAS DRIVE and  
RAINIER WAY/OLD RIVER STREET**

ACCEPTED BY:

CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907 Date:

Prepared under the direction of: Reviewed By: PLAN NUMBER

Sign: Initials: Date: R22-00021

EQUIPMENT SCHEDULE

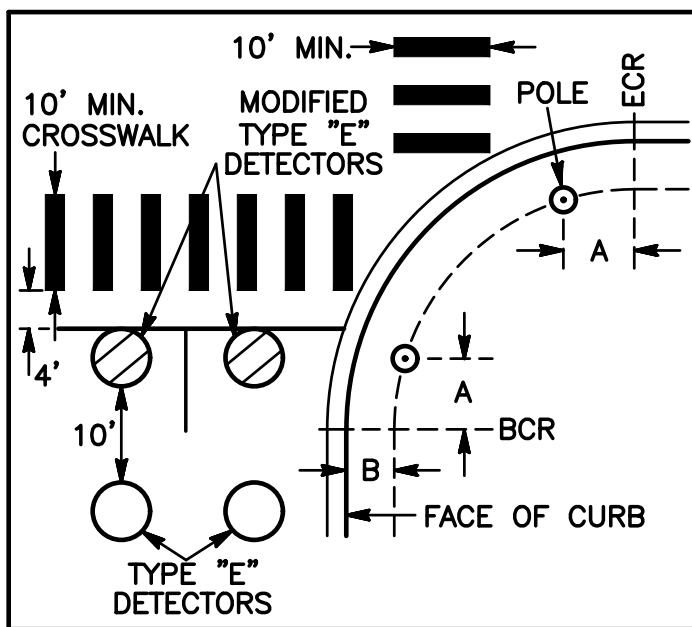
| LOC. | STANDARD     |         |      |      | LUMINAIRE LED | PLACEMENT DIMENSIONS |      | SIGNAL MOUNTING AND PLACEMENT |                  |                          |     |      | REMARKS                                                                  |     |
|------|--------------|---------|------|------|---------------|----------------------|------|-------------------------------|------------------|--------------------------|-----|------|--------------------------------------------------------------------------|-----|
|      | TYPE         | MASTARM |      |      |               | A.                   | B.   | VEHICLE                       |                  | PEDESTRIAN               |     |      |                                                                          |     |
|      |              | HT.     | SIG. | LUM. |               |                      |      | POLE                          | MAST ARM         | SIGNAL (COUNT-DOWN TYPE) | PPB | LOC. |                                                                          |     |
| A    | 19-4-80      | 30'     | 30'  | 15'  | 130W          | 4'                   | 4'   | SV-1-T<br>#2                  | MAS #2           | SP-1-T<br>#2P            | #8P | 7    | NEW EQUIPMENT<br>← Rainier Way<br>Old River St →                         | 4   |
| B    | 1-A<br>(10') | 10'     | -    | -    | -             | 4.5'                 | 5'   | TV-1-T<br>#4                  | -                | SP-1-T<br>#8P            | #2P | 1    | NEW EQUIPMENT                                                            | 4   |
| C    | 19-4-80      | 30'     | 30'  | 15'  | 130W          | 12'                  | 5'   | SV-1-T<br>#4                  | -                | SP-1-T<br>#4P            | #2P | 1    | NEW EQUIPMENT<br>Douglas Dr                                              | 4   |
| D    | 1-A<br>(10') | 10'     | -    | -    | -             | 15.5'                | 5'   | TV-1-T<br>#1                  | -                | SP-1-T<br>#2P            | #4P | 3    | NEW EQUIPMENT                                                            | 4   |
| E    | 26-4-80      | 30'     | 45'  | 15'  | 130W          | 5.5'                 | 3.5' | SV-1-T<br>#6                  | MAS #1<br>MAS #6 | SP-1-T<br>#6P            | #4P | 3    | REMOVE AND SALVAGE EXISTING EQUIPMENT<br>Rainier Way →<br>← Old River St |     |
| E'   | 26-3-100     | 30'     | 45'  | 15'  | 130W          | 14'                  | 6.5' | SV-1-T<br>#6                  | MAS #1<br>MAS #6 | -                        | -   | -    | ALL NEW EQUIPMENT<br>Rainier Way →<br>← Old River St                     | 3 5 |
| F    | 1-A<br>(10') | 7'      | -    | -    | -             | 0.5'                 | 7'   | -                             | -                | TP-2-T<br>#4P #6P        | #4P | 3    | ALL NEW EQUIPMENT                                                        |     |
| G    | 1-A<br>(10') | 10'     | -    | -    | -             | 7'                   | 4.5' | TV-1-T<br>#8                  | -                | SP-1-T<br>#4P            | #6P | 5    | EXISTING EQUIPMENT TO REMAIN                                             |     |
| H    | 17-3-80      | 30'     | 20'  | 15'  | 130W          | 15.5'                | 5'   | SV-1-T<br>#8                  | -                | SP-1-T<br>#8P            | #6P | 5    | EXISTING EQUIPMENT TO REMAIN                                             |     |
| I    | 1-A<br>(10') | 7'      | -    | -    | -             | 0.5'                 | 7'   | -                             | -                | TP-2-T<br>#6P #8P        | #8P | 7    | ALL NEW EQUIPMENT                                                        |     |
| J    | 1-A<br>(10') | 10'     | -    | -    | -             | 3'                   | 5'   | TV-1-T<br>#6                  | -                | SP-1-T<br>#6P            | #8P | 7    | REMOVE AND SALVAGE EXISTING EQUIPMENT                                    |     |
| J'   | 1-A<br>(10') | 10'     | -    | -    | -             | 11.5'                | 6.5' | TV-1-T<br>#6                  | -                | -                        | #8P | 7    | ALL NEW EQUIPMENT                                                        |     |

● = RED ARROW, YELLOW ARROW, GREEN ARROW

#### TRAFFIC SIGNAL GENERAL NOTES (THIS SHEET ONLY)

- ALL POLES, CONDUIT, PULL BOXES, STRIPING AND LOOP DETECTOR LOCATIONS SHOWN ON THIS PLAN ARE APPROXIMATE. ACTUAL LOCATIONS SHALL BE DETERMINED BY FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND AS DIRECTED BY THE CITY ENGINEER. CONTRACTOR SHALL OBTAIN APPROVAL FOR LOCATIONS PRIOR TO FINAL PLACEMENT.
  - THE SHOWN LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL SUBSTRUCTURES, WHETHER SHOWN HEREON OR NOT AND PROTECTING THEM FROM DAMAGE. THE EXPENSE OF REPAIR OR REPLACEMENT OF SAID SUBSTRUCTURES SHALL BE BORNE BY THE CONTRACTOR. HAND DIG FOUNDATIONS UNTIL CLEAR OF SUBSTRUCTURES, IF REQUIRED, TO PROTECT UTILITIES. PHONE "UNDERGROUND SERVICE ALERT" AT (800)227-2600.
  - ALL VEHICLE SIGNAL SECTION HOUSINGS, TUNNEL VISORS, AND BACKPLATES SHALL BE METAL. ALL VEHICLE AND PEDESTRIAN INDICATIONS SHALL BE L.E.D. (CALTRANS APPROVED). ALL LEFT TURN INDICATIONS SHALL BE ALL ARROWS AND MAT MOUNTED UNLESS OTHERWISE SHOWN.
  - COORDINATE SERVICE DETAILS AND SCHEDULING WITH SAN DIEGO GAS AND ELECTRIC WELL IN ADVANCE OF NEED.
  - CONTRACTOR SHALL FURNISH AND INSTALL ALL TRAFFIC SIGNAL STANDARD MOUNTED SIGNS AND PERFORM REMOVAL OF ALL STRIPING AND MARKING IN CONFLICT WITH THIS PLAN.
- NOTES CONTINUED:
- PEDESTRIAN SIGNAL HEADS AND PUSH BUTTONS SHALL BE INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS SHALL BE 16"x18" L.E.D. COUNTDOWN IN LOCATION. PEDESTRIAN PUSH BUTTONS SHALL BE 2" ADA AUDIBLE TYPE WITH TACTILE ARROW PER ADA ACCESSIBLE SIGNAL DESIGN GUIDELINES AND SECTION 4E.09 OF THE LATEST CA MUTCD (POLARA EZ-COMM 2-WIRE NAVIGATOR APS).
  - ALL CONSTRUCTION OPERATIONS SHALL BE LIMITED TO THE PERIOD BETWEEN 8:00 AM AND 3:30 PM MONDAY THROUGH FRIDAY, UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE CITY ENGINEER.
  - CONTRACTOR SHALL MAINTAIN TRAFFIC THROUGH THE CONSTRUCTION AREA AND PROVIDE ALL NECESSARY CONSTRUCTION WARNING SIGNS AND MARKINGS REQUIRED TO COMPLETE THIS WORK.
  - CONTRACTOR SHALL PAINT ALL NEW STRIPING AND MARKINGS AND INSTALL PAVEMENT MARKINGS AS SHOWN ON THIS PLAN PRIOR TO SIGNAL TURN-ON.
  - THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND NOTIFY ALL UTILITY AGENCIES AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION.
  - ALL PULL BOXES AND COVERS SHALL BE CONCRETE UNLESS OTHERWISE SHOWN. PULL BOX COVERS SHALL BE MARKED WITH "TRAFFIC SIGNAL". ALL PULL BOXES SHALL BE NO. 5 UNLESS SPECIFIED.
  - ALL CONDUIT SHALL BE 3" UNLESS OTHERWISE SPECIFIED.
  - ANCHOR BOLT NUT COVERS SHALL BE PROVIDED FOR ALL STANDARDS.
  - ALL NEW TRAFFIC SIGNAL POLE FOUNDATIONS SHALL HAVE A 3" CONDUIT INSTALLED TO THE ADJACENT PULL BOX AND THE CONTROLLER FOUNDATION SHALL HAVE A SPARE 3" CONDUIT INSTALLED TO THE ADJACENT #6 PULL BOX.
  - FLASHING SIGNAL OPERATION SHALL BE RED ON ALL PHASES. PEDESTRIAN SIGNALS SHALL BE BLANK DURING FLASHING OPERATION.
  - ALL TRAFFIC SIGNAL IMPROVEMENTS SHALL BE INSTALLED IN COORDINATION WITH THE SIGNING AND STRIPING CONTRACTOR.
  - THE CONDUCTOR SCHEDULE IS FURNISHED AS AN INSTALLATION GUIDE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL CABLING AND CONDUCTORS NECESSARY TO PERFORM ALL FUNCTIONS SHOWN ON THIS PLAN.
  - ALLOW 3 WEEKS FOR TESTING OF CONTROLLER. CONTRACTOR SHALL DELIVER THE CONTROLLER AND CABINET TO THE CITY YARD, 4927 OCEANSIDE BOULEVARD FOR TESTING.
  - ALL TREES AND SHRUBS SHALL BE TRIMMED OR REMOVED AS DETERMINED BY THE CITY RESIDENT ENGINEER AS REQUIRED TO MAINTAIN SIGNAL HEAD VISIBILITY AND SIGHT DISTANCE.
  - ANY DELAY IN OBTAINING PUBLIC AGENCY APPROVALS AND/OR CONSTRUCTION OF SIGNAL OR STRIPING PLANS MAY REQUIRE REDESIGN DUE TO CHANGES IN GOVERNMENTAL REQUIREMENTS/STANDARDS.

DESIGN SPEED: DOUGLAS DRIVE = 45 MPH  
DESIGN SPEED: OLD RIVER STREET = 25 MPH  
DESIGN SPEED: RAINIER WAY = 25 MPH



DETECTOR LOOP AND POLE LOCATION DETAIL  
NOT TO SCALE

#### CONSTRUCTION NOTES (THIS SHEET ONLY)

- CONTRACTOR SHALL PROTECT IN PLACE EXISTING CONTROLLER AND CABINET AND PROVIDE ANY ADDITIONAL EQUIPMENT AS NECESSARY FOR INTENDED OPERATION AND INSTALL GENERAL ELECTRIC COUNTDOWN TIMER, AN ALPHA FXM 1100 QC BATTERY BACK-UP, 233 SOFTWARE CHIP, AND AN ACTELIS 688 SWITCH.
- PROTECT IN PLACE EXISTING SERVICE LIGHTING AND SERVICE PEDESTAL.
- ONE (1) 3M OPTICOM MODEL NO. 721 (OR CITY-APPROVED EQUAL) EMERGENCY VEHICLE PRE-EMPTION DETECTOR ASSEMBLY (INCLUDING MOUNTING HARDWARE AND CABLE) FOR SOUTHBOUND DIRECTION PER THE LATEST EDITION OF THE CITY OF OCEANSIDE "TRAFFIC SIGNAL DESIGN POLICY MANUAL FOR NEW INSTALLATIONS". INSTALL OPTICOM MODEL NO. 754 DISCRIMINATORS OR LATEST VERSION IN CONTROLLER CABINET. SYSTEM SHALL BE ETHERNET COMPATIBLE. E.V.P.E. SHALL BE MOUNTED ON MAST ARM USING MINI-ASTRO BRACKET WITH THREADED NIPPLE AND LOCK WASHERS. SEE DETAIL "A" THIS SHEET.
- CONTRACTOR SHALL REMOVE AND SALVAGE EXISTING PEDESTRIAN INDICATION (SIDE-BY-SIDE HAND/MAN). CONTRACTOR SHALL INSTALL NEW SIDE-BY-SIDE COUNTDOWN TYPE INDICATION(S). IF EXISTING PEDESTRIAN SIGNAL HOUSING DOES NOT ACCOMMODATE 16"x18" SIDE-BY-SIDE COUNTDOWN TYPE INDUCTION MODULE, CONTRACTOR SHALL REPLACE THE ENTIRE HOUSING.
- CONTRACTOR SHALL INSTALL BOSCH HD CCTV SURVEILLANCE CAMERA AS SHOWN ON PLAN.

#### LEGEND

- TURN CONTROL SIGN
- EMERGENCY VEHICLE DETECTOR
- EXISTING CONTROLLER CABINET
- EXISTING PULL BOX
- EXISTING VEHICULAR TRAFFIC SIGNAL HEAD
- EXISTING COUNTDOWN PEDESTRIAN HEAD
- PROPOSED CCTV CAMERA
- PROPOSED VEHICULAR TRAFFIC SIGNAL HEAD
- PROPOSED COUNTDOWN PEDESTRIAN HEAD
- EXISTING SINGLE FACE REFLECTORIZED
- EXISTING VIDEO DETECTION ZONE
- EXISTING SAFETY LIGHTING LUMINAIRE

#### DETECTOR ASSIGNMENTS

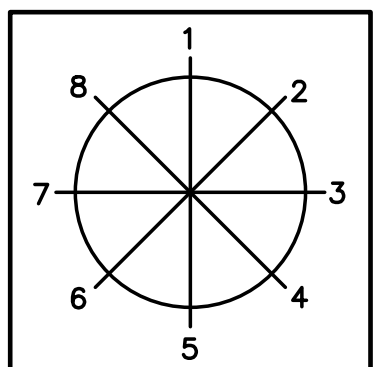
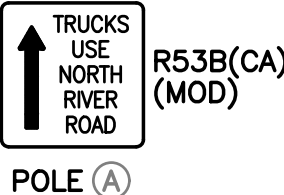
| DETECTOR NUMBER | PHASE | SLOT NUMBER | FIELD TERMINALS |
|-----------------|-------|-------------|-----------------|
| 1               | #2    | I2U         | T2-5 & 6        |
| 2               | #2    | I2L         | T2-7 & 8        |
| 3               | #2    | I3U         | T2-9 & 10       |
| 4               | #2    | I3L         | T2-11 & 12      |
| 5               | #2    | I4U         | T4-1 & 2        |
| 6               | #2    | I4L         | T4-3 & 4        |
| 7               | #4    | I6U         | T4-9 & 10       |
| 8               | #4    | I6L         | T4-11 & 12      |
| 9               | #6    | J2U         | T3-5 & 6        |
| 10              | #6    | J2L         | T3-7 & 8        |
| 11              | #6    | J3U         | T3-9 & 10       |
| 12              | #6    | J3L         | T3-11 & 12      |
| 13              | #6    | J4U         | T5-1 & 2        |
| 14              | #1    | I1U         | T2-1 & 2        |
| 15              | #8    | J6U         | T5-9 & 10       |
| 16              | #8    | J6L         | T5-11 & 12      |
| EMER C          | #1+#6 | J12L        | T9-5 & COM6     |
| EMER A          | #2    | J12U        | T9-4 & COM6     |
| EMER A          | #4    | J13U        | T9-7 & COM9     |
| EMER D          | #8    | J13L        | T9-8 & COM9     |
| FLASH           | -     | I14U        | T8-10 & COM12   |

#### MAST ARM MOUNTED SIGNS



POLE (A) POLES (C) & (H)

#### POLE MOUNTED SIGN



PUSH BUTTON LOCATION DETAIL

#### "DECLARATION OF ENGINEER OF WORK"

I HEREBY DECLARE THAT THE DESIGN OF THE IMPROVEMENTS AS SHOWN ON THIS PLAN COMPLIES WITH PROFESSIONAL ENGINEERING STANDARDS AND PRACTICES. AS THE ENGINEER IN RESPONSIBLE CHARGE OF THE DESIGN OF THESE IMPROVEMENTS, I ASSUME FULL RESPONSIBILITY FOR SUCH DESIGN. I UNDERSTAND AND ACKNOWLEDGE THAT THE PLAN CHECK OF THESE PLANS BY THE CITY OF OCEANSIDE IS A REVIEW FOR THE 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.

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CIVIL ENGINEER OF RECORD: KALYAN C. YELLPU R.C.E. 75023 DATE

LINSCOTT, LAW & GREENSPAN, ENGINEERS  
4542 Ruffner Street, Suite 100  
San Diego, Ca 92111  
(858)300-8800

| NO. | APPROVED REVISIONS | BY | DATE |
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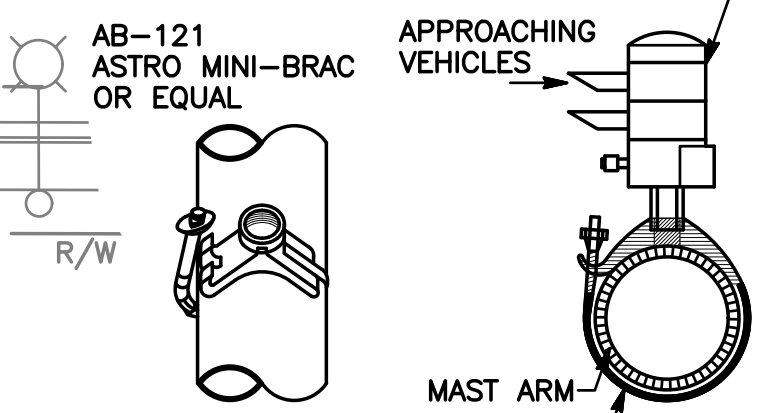
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#### CONDUCTOR SCHEDULE

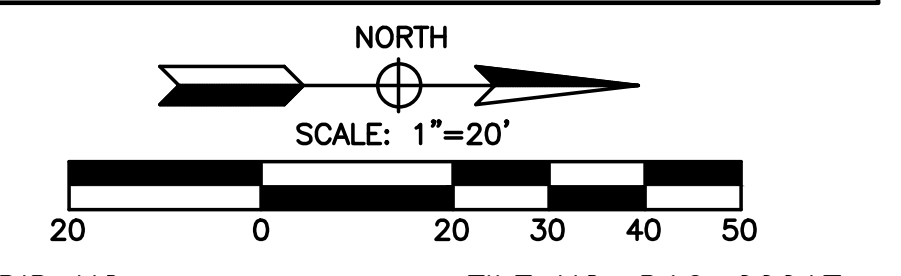
| AWG SIZE<br>OR<br>CABLE TYPE                 |                                           |                               | P<br>H<br>A<br>S<br>E | POLE OR<br>CIRCUIT | CONDUIT SIZE AND RUN |         |         |           |         |         |           |           |   |   |
|----------------------------------------------|-------------------------------------------|-------------------------------|-----------------------|--------------------|----------------------|---------|---------|-----------|---------|---------|-----------|-----------|---|---|
|                                              |                                           |                               |                       |                    | 3"<br>1              | 3"<br>2 | 3"<br>3 | 2-4"<br>4 | 3"<br>5 | 3"<br>6 | 2-3"<br>7 | 2-3"<br>8 |   |   |
| NO.14 CABLES<br><br>3<br><br>12              | C<br>O<br>N<br>D<br>U<br>C<br>T<br>O<br>R |                               | POLE - (A)            |                    |                      |         |         |           |         |         |           | 1         |   |   |
|                                              |                                           |                               | POLE - (B)            |                    |                      |         |         |           |         |         | 1         | 1         |   |   |
|                                              |                                           |                               | POLE - (C)            |                    |                      |         |         |           |         | 1       | 1         | 1         |   |   |
|                                              |                                           |                               | POLE - (D)            |                    |                      |         |         |           | 1       | 1       | 1         | 1         |   |   |
|                                              |                                           |                               | POLE - (E)            |                    |                      |         |         | 1         | 1       | 1       | 1         | 1         |   |   |
|                                              |                                           |                               | POLE - (F)            |                    |                      |         | 1       | 1         | 1       |         |           | 1         |   |   |
|                                              |                                           |                               | POLE - (G)            | 1                  | 1                    | 1       |         | 1         |         |         |           | 1         |   |   |
|                                              |                                           |                               | POLE - (H)            |                    | 1                    | 1       |         | 1         |         |         |           | 1         |   |   |
|                                              |                                           |                               | POLE - (I)            |                    |                      |         |         | 1         |         |         |           | 1         |   |   |
|                                              |                                           |                               | POLE - (J)            |                    |                      |         |         |           | 1       |         |           | 1         |   |   |
|                                              |                                           | TOTAL CABLES - 3 CON / 12 CON |                       |                    |                      | 1       | 1       | 2         | 2       | 1       | 2         | 4         | 6 | 1 |
|                                              |                                           | 10                            |                       |                    | LUMINAIRES           | 0       | 2       | 0         | 2       | 4       | 2         | 2         | 0 |   |
| 8                                            |                                           |                               | GROUND                | 1                  | 1                    | 1       | 1       | 1         | 1       | 1       | 1         |           |   |   |
| 6                                            |                                           |                               | SERVICE               | 0                  | 0                    | 0       | 0       | 2         | 2       | 2       | 2         |           |   |   |
| TYPE "B" DLC                                 |                                           | #1                            | LOOP                  |                    |                      |         | 1       |           |         |         |           | 1         |   |   |
|                                              |                                           | #2                            | LOOP                  |                    |                      |         |         | 6         | 6       | 6       | 6         |           |   |   |
|                                              |                                           | #6                            | LOOP                  |                    |                      |         | 5       |           |         |         |           | 5         |   |   |
|                                              |                                           | #8                            | LOOP                  |                    |                      |         |         |           |         |         | 2         | 2         |   |   |
|                                              | TOTAL                                     |                               |                       | 0                  | 0                    | 0       | 6       | 6         | 6       | 7       | 13        |           |   |   |
| EV-DLC                                       |                                           | #1+ #6                        | EVPE                  |                    |                      | 1       | 1       |           |         |         |           | 1         |   |   |
|                                              |                                           | #2                            | EVPE                  |                    |                      |         |         |           |         |         |           | 1         |   |   |
|                                              |                                           | #4                            | EVPE                  |                    |                      |         |         |           | 1       | 1       | 1         |           |   |   |
|                                              |                                           | #8                            | EVPE                  |                    | 1                    |         | 1       |           |         |         |           | 1         |   |   |
|                                              | TOTAL                                     |                               |                       | 0                  | 1                    | 1       | 2       | 0         | 1       | 1       | 4         |           |   |   |
| CCTV CAMERA                                  |                                           |                               |                       | 0                  | 0                    | 1       | 1       | 0         | 0       | 0       | 1         |           |   |   |
| CCTV CAMERA POWER (3#16)                     |                                           |                               |                       | 0                  | 0                    | 1       | 1       | 0         | 0       | 0       | 1         |           |   |   |
| SIC (12PR#19)                                |                                           |                               |                       | 0                  | 0                    | 0       | 1       | 1         | 1       | 1       | 2         |           |   |   |
| CONDUIT FILL %                               |                                           |                               |                       | 8                  | 18                   | 17      | 17      | 27        | 35      | 22      | 55        |           |   |   |
| TOTAL CONDUCTORS / CABLES                    |                                           |                               |                       | 3                  | 7                    | 7       | 24      | 16        | 17      | 20      | 42        |           |   |   |
| PEDESTRIAN PUSH BUTTONS PER ADA REQUIREMENTS |                                           |                               |                       | EXIST              | EXIST                | NEW     | NEW     | EXIST     | EXIST   | EXIST   | EXIST     |           |   |   |

#### DETAIL "A" 3

OPTICAL DETECTOR ASSEMBLY  
EVPE TO BE MOUNTED 7" FROM END OF MAST ARM UNLESS OTHERWISE SHOWN  
3M "OPTICOM DETECTOR"



100% PRELIMINARY  
NOT FOR CONSTRUCTION  
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|                                                                                                           |  |                                           |                                                 |             |                              |
|-----------------------------------------------------------------------------------------------------------|--|-------------------------------------------|-------------------------------------------------|-------------|------------------------------|
| SHEET<br>5                                                                                                |  | CITY OF OCEANSIDE<br>ENGINEERING DIVISION |                                                 | 9<br>SHEETS |                              |
| TRAFFIC SIGNAL MODIFICATION PLAN FOR:<br><b><i>DOUGLAS DRIVE and<br/>RAINIER WAY/OLD RIVER STREET</i></b> |  |                                           |                                                 |             |                              |
| ACCEPTED BY:<br><br>CITY ENGINEER: BRIAN K. THOMAS R.C.E. 60907      Date: _____                          |  |                                           |                                                 |             |                              |
| Prepared under the direction of:<br><br>Sign: _____<br>PRINT Name: _____ Date: _____                      |  |                                           | Reviewed By:<br><br>Initials: _____ Date: _____ |             | PLAN NUMBER<br><br>R22-00021 |









