

# GRADING & DRAINAGE PLAN

FOR  
DOLPHIN GREEN CAR WASH  
AT  
2190 SOUTH EL CAMINO REAL, OCEANSIDE CA

## GRADING PLAN DESIGN NOTES

- ALL GRADING AND DRAINAGE IMPROVEMENTS SHALL BE COMPLETED IN ACCORDANCE WITH THE CITY'S CURRENT GRADING ORDINANCE, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION WITH SUPPLEMENTS (A.P.W.A. SPECIFICATIONS) AND THE "SAN DIEGO AREA REGIONAL STANDARD DRAWINGS", AS AMENDED BY THE CITY SUPPLEMENTS, AND THE EARTHWORK SPECIFICATIONS ATTACHED TO THE "PRELIMINARY SOILS REPORTS".
- THE DEVELOPER SHALL BE RESPONSIBLE FOR LANDSCAPING, FOR SLOPE STABILIZATION OF ALL EMBANKMENTS OVER 3 FEET IN HEIGHT, WITHIN 45 DAYS OF COMPLETION OF PRELIMINARY GRADING. PERMANENT IRRIGATION SYSTEMS SHALL BE INSTALLED FOR ALL EMBANKMENTS OVER 5 FEET IN HEIGHT (AND FOR ALL SLOPES ALONG MAJOR STREETS). LANDSCAPING SPECIFICATIONS, AND PLANS AS REQUIRED, SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO ISSUANCE OF THE GRADING PERMIT. THE DEVELOPER SHALL BE RESPONSIBLE FOR MAINTENANCE OF SLOPE STABILIZATION LANDSCAPING UNTIL RELEASE OF THE GRADING BOND OR UNTIL INDIVIDUAL LOTS (OR LIVING UNITS) CLOSE ESCROW, WHICH EVER OCCURS LATER.
- ALL GRADING SHALL BE DONE UNDER THE OBSERVATION OF A QUALIFIED SOILS ENGINEER.
- CUT AND FILL SLOPES SHALL BE TRIMMED TO THE FINISH GRADE TO PRODUCE A SMOOTH AND UNIFORM SURFACE OF CROSS-SECTION. THE SLOPES OF EXCAVATIONS OR EMBANKMENTS SHALL BE SHAPED AND TRIMMED AS DIRECTED BY THE ENGINEER OF WORK AND AS APPROVED BY THE CITY ENGINEER. FINISH SLOPES SHALL BE LEFT IN A NEAT AND ORDERLY CONDITION. ALL STONES, ROOTS OR OTHER WASTE MATERIAL SHALL BE PROPERLY DISPOSED OFF SITE.
- COMPACTIONS TESTS SHALL BE SUPPLIED FOR TRENCHES.
- ALL EXISTING, ABANDONED PIPELINES SHALL BE REMOVED AND REPLACED WITH PROPERLY COMPACTED SOILS UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER.
- THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT EXISTING UTILITIES.
- 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.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF WORK AND PUBLIC WORKS INSPECTOR PRIOR TO PERFORMING ROCK-REMOVAL OPERATIONS.
- APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL A VALID GRADING PERMIT HAS BEEN ISSUED, AND ALL AFFECTED PROPERTY OWNER'S PERMISSION HAS BEEN OBTAINED.
- THESE PLANS ARE SUBJECT TO A SIGNED AND APPROVED SET OF IMPROVEMENT PLANS.
- AN ENFORCEMENT PERMIT FROM THE CITY ENGINEER SHALL BE REQUIRED BY THE CONTRACTOR FOR ANY WORK WITHIN THE EXISTING CITY RIGHT OF WAY.
- ALL ROCK-SLOPE PROTECTION SHALL BE RIP RAP UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
- ALL LOT PADS SHALL BE DESIGNED TO DRAIN TO AN ACCEPTABLE LOCATION AT A MINIMUM GRADIENT OF 1 %
- ALL RETAINING WALLS SHALL HAVE A PERMIT FROM THE BUILDING DEPARTMENT PER THE UNIFORM BUILDING CODE.
- MAXIMUM SLOPE RATIO SHALL BE 2:1
- A 12-INCH HIGH BY 4-FOOT WIDE BERM (90% COMPACTED) SHALL BE CONSTRUCTED ALONG THE TOP OF THE SLOPE. NO RUNOFF SHALL FLOW OVER THE TOP OF THE SLOPE. DOWN DRAINS SHALL BE USED PER D-75.
- FOR THIS PLAN TO BECOME EFFECTIVE, AN APPROVED HAUL ROUTE PLAN THAT HAS BEEN APPROVED BY THE CITY ENGINEER SHALL BE INCLUDED (FOR HAULING OF MATERIAL ON A PUBLIC STREET).
- LOT GRADING IS TO BE IN ACCORDANCE WITH CITY SUPPLEMENT DRAWING M-12 ("TYPICAL LOT GRADING").
- 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, AND NO EARTHMOVING OR GRADING OPERATIONS SHALL BE CONDUCTED ON THE PREMISES ON SATURDAYS, SUNDAYS OR LEGAL HOLIDAYS, UNLESS WAIVED BY THE CITY ENGINEER.
- ALL DISTURBED AREAS MUST BE REVEGETATED, SUBSTANTIALLY GERMINATED, AND ESTABLISHED WITHIN 45 DAYS OF COMPLETION OF GRADING AND PRIOR TO REQUESTING FINAL INSPECTION.
- IMPORT MATERIAL SHALL BE OBTAINED FROM, AND WASTE MATERIAL SHALL BE DEPOSITED AT A SITE APPROVED BY THE CITY ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEBRIS OR DAMAGE OCCURRING ALONG THE HAUL ROUTES OR ADJACENT STREETS AS DIRECT RESULT OF THE OPERATION.

## GRADING PLAN DESIGN CERTIFICATES

- ALL GRADING SHALL BE DONE UNDER THE OBSERVATION OF A QUALIFIED SOILS ENGINEER AND ENGINEERING GEOLOGIST AND IN ACCORDANCE WITH THE RECOMMENDATIONS AND SPECIFICATIONS SET FORTH IN THE APPROVED SOILS AND GEOLOGICAL REPORT PREPARED BY: \_\_\_\_\_ DATED: \_\_\_\_\_
- THESE GRADING PLANS HAVE BEEN REVIEWED BY THE UNDERSIGNED AND ARE FOUND TO BE IN CONFORMANCE WITH THE RECOMMENDATIONS AND SPECIFICATIONS OUTLINED IN THE SOILS AND GEOLOGICAL REPORT PREPARED FOR THIS DEVELOPMENT.

BY: \_\_\_\_\_ R.C.E. DATE: \_\_\_\_\_

BY: \_\_\_\_\_ C.E.G. DATE: \_\_\_\_\_

PLANS ARE CHECKED AND FOUND TO COMPLY WITH CITY OF OCEANSIDE REQUIREMENTS:

\_\_\_\_\_  
GEOLOGICAL CONSULTANT DATE

## CIVIL ENGINEER CERTIFICATION

I HEREBY CERTIFY THAT AS THE ENGINEER IN RESPONSIBLE CHARGE OF WORK FOR THIS PROJECT, I HAVE SUPERVISED 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 DESIGN CHANGES 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 INCORPORATED IN THESE PLANS.

CIVIL ENGINEER OF RECORD:

\_\_\_\_\_  
JONATHAN SAGHERIAN

## SOIL ENGINEER CERTIFICATION

WE HEREBY CERTIFY THAT WE HAVE PROVIDED PROFESSIONAL TESTING AND APPROVAL CONCERNING THE PREPARATION OF GROUND TO RECEIVE FILLS. TESTING FOR REQUIRED COMPACTION, STABILITY OF ALL FINISH SLOPES, DESIGN OF BUTTRESS FILLS WHERE REQUIRED, THE ADEQUACY OF THE NATURAL GROUND FOR RECEIVING FILL, THE STABILITY OF CUT SLOPES WITH RESPECT TO GEOLOGICAL MATTERS AND THE NEED FOR SUBDRAINS AND OTHER GROUNDWATER DRAINAGE DEVICES, AND THAT THESE GRADING PLANS ACCURATELY REFLECT ALL CONDITIONS AND CONSTRUCTION RECOMMENDATIONS PREPARED FOR THIS PROJECT AS DATED: \_\_\_\_\_

\_\_\_\_\_  
SOIL ENGINEER OF RECORD

NAME \_\_\_\_\_ SEAL \_\_\_\_\_

## GENERAL NOTES FOR ALL IMPROVEMENT PLANS

- 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 HIS WORK WITH COMPANY REPRESENTATIVES. ALL TELEPHONE SERVICES WITHIN THIS SUBDIVISION ARE UNDERGROUND INSTALLATION. FOR LOCATION OF ELECTRIC CABLE, GAS PIPING AND TELEPHONE CABLES AND APPURTENANCES, CONTACT UNDERGROUND SERVICE ALERT: 1-800-422-4133. ALSO REFER TO CITY STANDARD.
- A PERMIT SHALL BE OBTAINED FROM THE CITY ENGINEERING DEPARTMENT FOR WORK WITHIN EXISTING CITY RIGHTS-OF-WAY.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF OCEANSIDE ENGINEERING DEPARTMENT 48 HOURS PRIOR TO STARTING WORK SO THAT INSPECTION MAY BE PROVIDED. TELEPHONE NUMBER: (760) 435-5099.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITIONS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, WITH SUPPLEMENTS (A.P.W.A. SPECIFICATIONS), THE SAN DIEGO COUNTY REGIONAL STANDARD DRAWINGS AND CITY OF OCEANSIDE ENGINEER'S MANUAL.
- 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" OF NEUTRAL SAND.
- CONSTRUCTION EXPANSION JOINTS IN CURB AND GUTTER AT RETURNS AND AT DRIVEWAY INTERSECTIONS ARE REQUIRED PER G-9 AND G-10 (S.D.R.S.D.).
- ALL UNDERGROUND UTILITIES 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 .1' 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 ON 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 WORK 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 SHALL BE IN ACCORDANCE WITH THE CURRENT STATE OF CALIFORNIA MANUAL OF TRAFFIC CONTROL.
- CENTERLINE MONUMENTS SHALL BE INSTALLED AT THE EC AND BC OF ALL CURVES, AT THE CENTERLINE INTERSECTION OF ALL STREETS WHERE MANHOLES ALLOW, AT THE RADIUS POINT OF CONCENTRIC CURVE-DE-SACS, AND AT THE ANGLE POINT OF OFFSET CURVE-DE-SACS, PER S.D.R.S.D. 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 CITY ENGINEER, 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, AND NO EARTHMOVING OR GRADING OPERATIONS SHALL BE CONDUCTED ON THE PREMISES ON SATURDAYS OR SUNDAYS OR LEGAL HOLIDAYS, UNLESS WAIVED BY THE CITY ENGINEER.
- 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 BY SANDBLASTING BEFORE ANY NEW APPLICATION.
- REFLECTIVE PAVEMENT MARKERS TO BE INSTALLED BY CONTRACTOR ON PERMANENT STRIPING. ALL STREET SIGNS SHOWN ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE DEVELOPER. SIGN SPECIFICATIONS AND INSTALLATION SHALL BE IN ACCORDANCE WITH CITY OF OCEANSIDE STANDARD DRAWING T-3 AND THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION SPECIFICATION FOR REGULATORY, WARNING AND GUIDE SIGNS.
- PATCHING OF SIDEWALK IS NOT PERMITTED.
- DAMAGED, COUGED, 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.

## REQUIRED NOTES FOR PRIVATE WATER SYSTEM DESIGN PLANS

- NO REVISION SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE WATER UTILITIES DIRECTOR.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITIONS OF THE CITY OF OCEANSIDE WATER UTILITIES DEPARTMENT WATER, SEWER, AND RECLAIMED 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 (SDRS); AND, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPW OR GREENBOOK) AND SUPPLEMENTAL AMENDMENTS.
- A "W" SHALL BE INSCRIBED ON CURB DIRECTLY ABOVE ALL WATER SERVICES. SERVICES SHALL BE SHOWN ON AS-BUILT PLANS AND SHALL BE LOCATED BY A WATERLINE STATIONING.
- 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 RECLAIMED WATER DESIGN & CONSTRUCTION MANUAL'S.
- 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, WEDNESDAY 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 RECLAIMED WATER DESIGN & CONSTRUCTION MANUAL.
- 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.
- 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.
- 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: 1-800-227-2600).
- 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.
- 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.
- NUTS AND BOLTS ON ALL FLANGE FITTINGS SHALL BE CADMIUM PLATED AND COATED PER SECTION 2.12.C OF THE CITY OF OCEANSIDE'S WATER, SEWER, AND RECLAIMED 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, RECLAIMED WATER, DESIGN AND CONSTRUCTION MANUAL.
- WATER SERVICES ARE NOT PERMITTED IN DRIVEWAYS AND METER BOXES ARE NOT PERMITTED IN CONCRETE.
- 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.
- 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, CLODS AND OTHER DELETERIOUS MATERIALS.
- ALL FITTINGS AND SERVICES SHALL BE ENCASED WITH A MINIMUM OF SIX (6) INCHES OF NEUTRAL SAND, AND PER SECTIONS 2.12.C AND G OF THE CITY OF OCEANSIDE'S WATER, SEWER, AND RECLAIMED WATER DESIGN & CONSTRUCTION MANUAL.
- 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.
- 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.
- PIPE INSTALLATION: THE INSIDE AND OUTSIDE OF THE PIPE SHALL BE CLEAN AND FREE FROM FOREIGN MATERIAL OF ANY KIND BEFORE BEING INSTALLED.
- 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 ONE FOOT ABOVE AND CENTERED OVER THE WATER MAIN PRIOR TO BACKFILLING THE TRENCH.
- WATER QUALITY TESTS SHALL INCLUDE BACTERIOLOGICAL (BT) AND GENERAL PHYSICAL (GP) TESTING. ALL TESTING WILL COMPLY WITH THE PROVISIONS OF SECTION (F) WATER SYSTEM TESTING REQUIREMENTS IN THE CONSTRUCTION GUIDELINES AND REQUIREMENTS APPENDIX OF THE CITY OF OCEANSIDE'S WATER, SEWER, AND RECLAIMED WATER DESIGN & CONSTRUCTION MANUAL. ALL TESTING WILL BE SUCCESSFULLY COMPLETED BEFORE CONNECTION (TIE-IN) SUBMITTAL AND APPROVAL.
- ALL WATER DISCHARGE FROM FLUSHING, TESTING, AND DEWATERING SHALL COMPLY WITH ALL REQUIREMENTS OF THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD-SAN DIEGO REGION

## LEGEND

|  |  |  |                                    |
|--|--|--|------------------------------------|
|  | EXISTING CONSTRUCTION TO REMAIN UNLESS OTHERWISE NOTED.                      |  | NEW RIDGE                          |
|  | REMOVE EXISTING CEMENT CONCRETE.   |  | EXISTING METER BOX                 |
|  | REMOVE EXISTING AC PAVEMENT (AND BASE IF ANY)                                |  | SPRINKLER HEAD                     |
|  | NEW 4" THICK CEMENT CONC. WALKS, SLABS, ETC. UNLESS OTHERWISE                |  | LIMIT OF A.C. P.V.M.T.             |
|  | NEW 2" THICK AC PAVEMENT OVER 6" CRUSHED MISCELLANEOUS BASE UNLESS OTHERWISE |  | PROPOSED RETAINING WALL            |
|  | PROPERTY LINE  |  | EXISTING RETAINING WALL            |
|  | PRESENT GRADE CONTOUR  |  | BLOCK WALL                         |
|  | NEW FINISHED SURFACE OR FINISHED GRADE CONTOUR                               |  | TOP OF EXISTING CURB ELEVATION     |
|  | EXISTING CHAIN LINK FENCE  |  | EXISTING FLOW LINE ELEVATION       |
|  | NEW FINISHED SURFACE ELEVATION (A.C. PAVEMENT OR CEM. CONC.)                 |  | TOP OF NEW CATCH BASIN ELEV.       |
|  | EXISTING SURFACE OR PRESENT GRADE ELEVATION                                  |  | NEW INVERT ELEVATION               |
|  |  |  | EXISTING TOP OF CATCH BASING ELEV. |
|  |  |  | NEW TOP OF CURB ELEVATION          |
|  |  |  | FLOW LINE                          |

## APPROVED CHANGES:

| NO. | DESCRIPTION | APPVD | DATE |
|-----|-------------|-------|------|
|     |             |       |      |
|     |             |       |      |
|     |             |       |      |

## BENCHMARK:

Description: \_\_\_\_\_  
Location: \_\_\_\_\_  
Record From: \_\_\_\_\_  
Elev: \_\_\_\_\_ Datum: \_\_\_\_\_

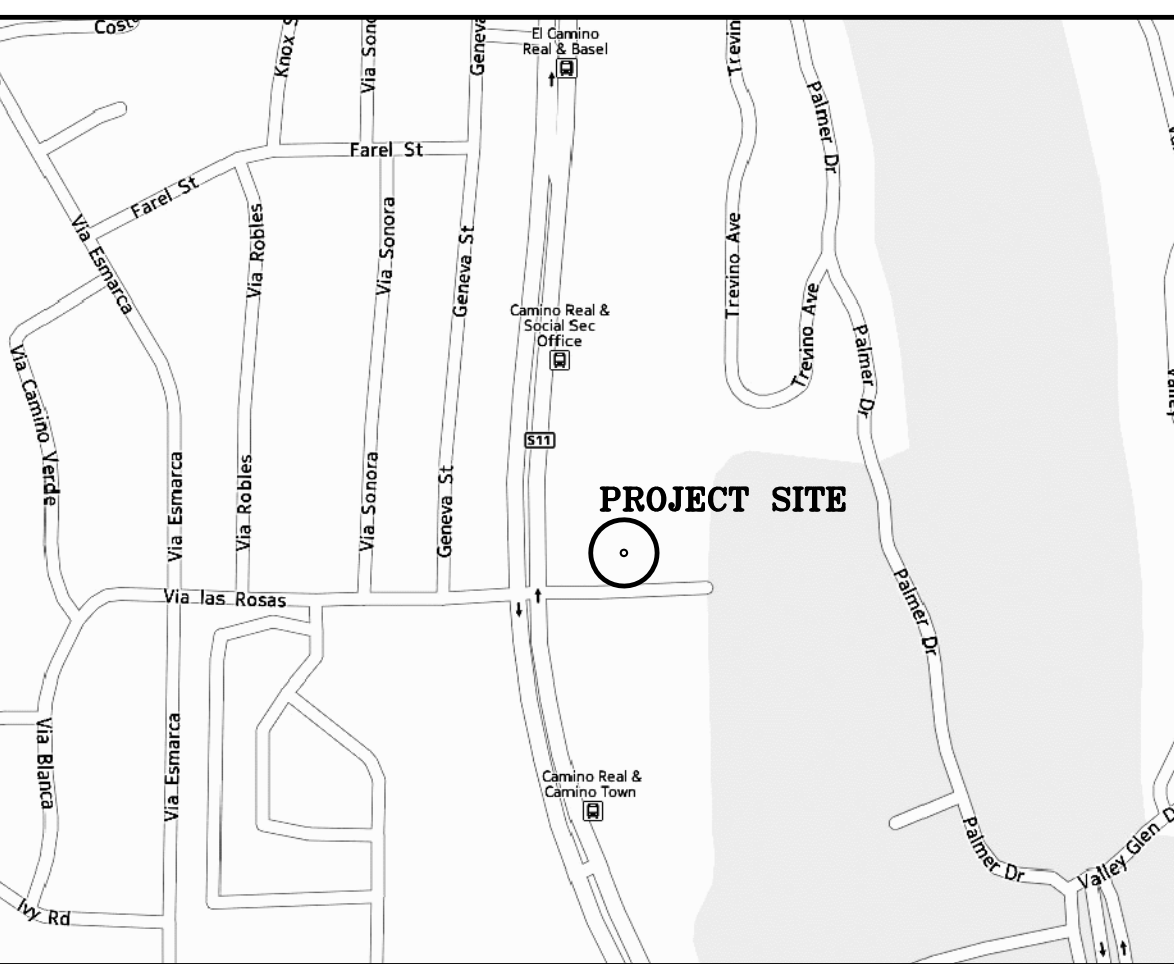
PLANS APP. BY WT. DEPT.

\_\_\_\_\_  
WT. UTILITIES DIR. DATE

**JK ASSOCIATES THE CHOICE**  
CIVIL CONSULTING ENGINEERS  
1296 LOS ANGELES ST. BLDG. #4  
GLENNDALE CA 91204  
TEL: (618) 507-9881  
FAX: (618) 502-9882

PREPARED BY:

\_\_\_\_\_  
NO. \_\_\_\_\_



VICINITY MAP  
N.T.S.

## OWNERS ADDRESS

METRO PROPERTY GROUP, LLC  
MR. KENNETH WANG  
4433 CONVOY ST. STE. H  
SAN DIEGO, CA 92111  
TEL:(858)576-6910

## SOIL ENGINEER

BAGAH ENGINEERING, INC  
KEN BAGAH  
21 CHICORY WAY  
IRVINE, CA 92612  
TEL:(949)679-7650

## LEGAL DESCRIPTION

PARCEL 1 OF PARCEL MAP NO. 14465, IN THE CITY OF OCEANSIDE, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO MAP THEREOF FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, SEPTEMBER 15, 1986  
APN:165-012-15-00

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## "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.

\_\_\_\_\_  
JONATHAN SAGHERIAN LICENSE NO. \_\_\_\_\_ DATE \_\_\_\_\_

## D15-00012 & CUP15-00010

|   |   |          |
|---|---|----------|
| SHEET 1   | CITY OF OCEANSIDE PUBLIC WORKS DEPARTMENT | 7 SHEETS |
| <b>GRADING &amp; DRAINAGE PLAN FOR DOLPHIN GREEN CAR WASH</b> |   |          |
| <b>TITLE SHEET</b>  |   |          |

|                    |                |                |
|--------------------|----------------|----------------|
| APPROVED           |                |                |
| SCOTT O. SMITH     | R.C.E. 58655   | CITY ENGINEER: |
| ENGINEER OF WORK   | Checked By:    | PLAN NUMBER    |
| JONATHAN SAGHERIAN | Approval Date: |                |

**CONSTRUCTION NOTES**

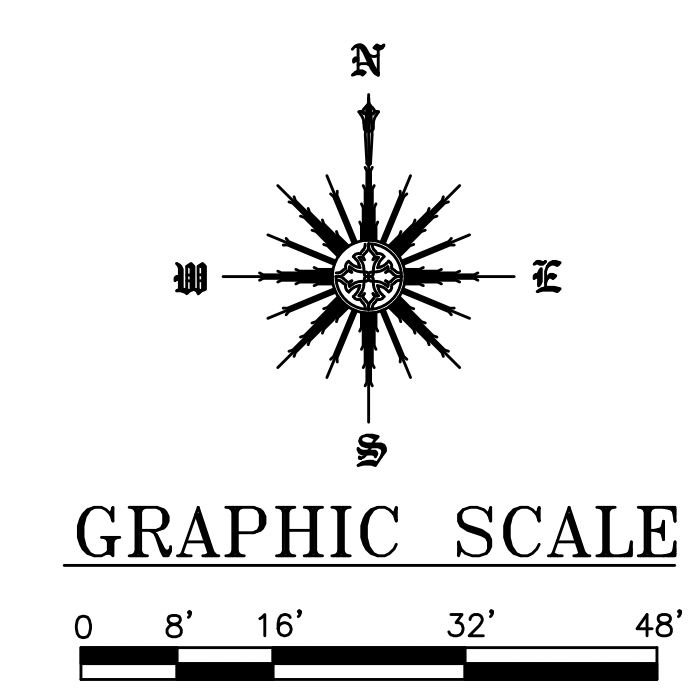
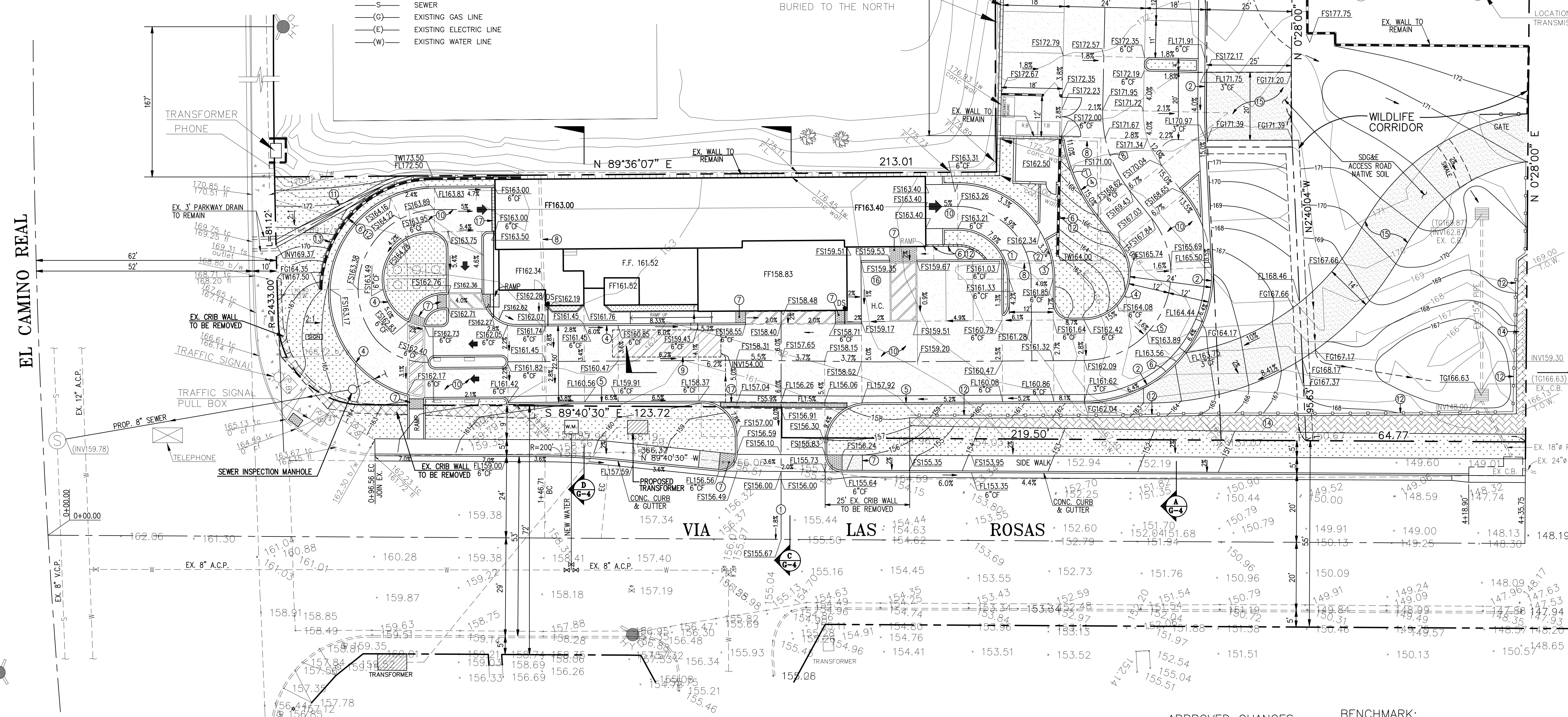
- 1 CONST. CONC. DRIVEWAY PER S.D.R.S.D. #G-14F
- 2 CONST. ROLE OVER CURB & 2" GUTTER PER DET.#2 SHT.#3
- 3 CONST. 24"x24" CATCH BASIN PER DET.#1 SHT.#2
- 4 CONST. 6" HIGH CONC. CURB PER S.D.R.S.D. PLAN# G-1
- 5 CONST. CURB & GUTTER COMBINED PER S.D.R.S.D. PLAN# G-2
- 6 CONST. VARIABLE HEIGHT RET. WALL PER STRUCTURAL PLANS MAX. 10' HIGH
- 7 CONST. CURB RAMP PER S.D.R.S.D. PLAN#G-3 TYPE 1 & INSTALL DETECTABLE WARNING TILES.
- 8 EX. RETAINING WALL TO BE REMOVED
- 9 CONST. OUTLET STRUCTURE PER L.I.D. PLANS/SHT.#G-6
- 10 CONST. 6" CONC. PAVEMENT
- 11 CONST. 2" WIDE DOWN DRAIN PER DET.#2 SHT.#2
- 12 CONST. 5' CHAIN LINK FENCE
- 13 CONST. 42" HIGH IRON FENCE ON VARIABLE HEIGHT RET. WALL
- 14 EXIST. CRIB WALL TO REMAIN
- 15 CONST. DIRT ROAD
- 16 CONST. DISABLED PARKING STALL PER S.D.R.S.D. M-27A
- 17 CONST. TRENCH DRAIN PER DET.#3 SHT.#4

**LEGEND**

- EXISTING CONSTRUCTION TO REMAIN UNLESS OTHERWISE NOTED.
- REMOVE EXISTING CEMENT CONCRETE.
- REMOVE EXISTING AC PAVEMENT (AND BASE, IF ANY)
- NEW 6" THICK CEMENT CONC. WALKS, SLABS, ETC., UNLESS OTHERWISE
- NEW 2" THICK AC PAVEMENT OVER 6" CRUSHED MISCELLANEOUS BASE UNLESS OTHERWISE
- PROPERTY LINE
- PRESENT GRADE CONTOUR
- NEW FINISHED SURFACE OR FINISHED GRADE CONTOUR
- EXISTING CHAIN LINK FENCE
- NEW FINISHED SURFACE ELEVATION (A.C. PAVEMENT OR CEM. CONC.)
- EXISTING SURFACE OR PRESENT GRADE ELEVATION
- NEW RIDGE
- EXISTING METER BOX
- SPRINKLER HEAD
- LIMIT OF A.C. P.M.T.
- PROPOSED RETAINING WALL
- EXISTING RETAINING WALL
- INTERIOR BLOCK WALL
- (39.66 T.C.) TOP OF EXISTING CURB ELEVATION
- (36.12 F.L.) EXISTING FLOW LINE ELEVATION
- (39.83 T.C.B.) TOP OF NEW CATCH BASIN ELEV.
- (31.17 INV) NEW INVERT ELEVATION
- (23.12 T.C.B) EXISTING TOP OF CATCH BASING ELEV.
- 38.32 T.C. NEW TOP OF CURB ELEVATION
- FLOW LINE
- NEW STORM DRAIN LINE
- SEWER
- EXISTING GAS LINE
- EXISTING ELECTRIC LINE
- EXISTING WATER LINE

**CURVE DATA**

| NO. | Δ          | R      | L      | REM     |
|-----|------------|--------|--------|---------|
| 1   | 90°00'00"  | 15.00' | 23.56' | ON CURB |
| 2   | 90°00'00"  | 21.50' | 33.77' | ON CL   |
| 3   | 90°00'00"  | 28.00' | 43.98' | ON CURB |
| 4   | 128°00'00" | 13.75' | 30.77' | ON CURB |
| 5   | 128°00'00" | 25.77' | 57.83' | ON CL   |
| 6   | 128°00'00" | 37.79' | 84.44' | ON CURB |
| 7   | 29°01'54"  | 49.00' | 24.83' | ON CURB |
| 8   | 39°40'56"  | 37.00' | 25.63' | ON CL   |



**ENLARGED GRADING PLAN**

LOT AREA = 55817.10 SQ FT = 1.28 AC

PLANS APP. BY WT. DEPT. DATE

PREPARED BY: **JK ASSOCIATES THE CHOICE**  
CIVIL CONSULTING ENGINEERS  
1296 LOS ANGELES ST. BLDG. #4  
GLENNDALE CA. 91204  
TEL: (619) 507-9881  
FAX: (619) 502-9882

APPROVED CHANGES:

| NO. | DESCRIPTION | APPVD | DATE |
|-----|-------------|-------|------|
|     |             |       |      |

BENCHMARK: \_\_\_\_\_

Description: \_\_\_\_\_

Location: \_\_\_\_\_

Record From: \_\_\_\_\_

Elev: \_\_\_\_\_ Datum: \_\_\_\_\_

D15-00012 & CUP15-00010

SHEET 1.1 CITY OF OCEANSIDE PUBLIC WORKS DEPARTMENT 7 SHEETS

**GRADING & DRAINAGE PLAN FOR DOLPHIN GREEN CAR WASH GRADING AND DRAINAGE**

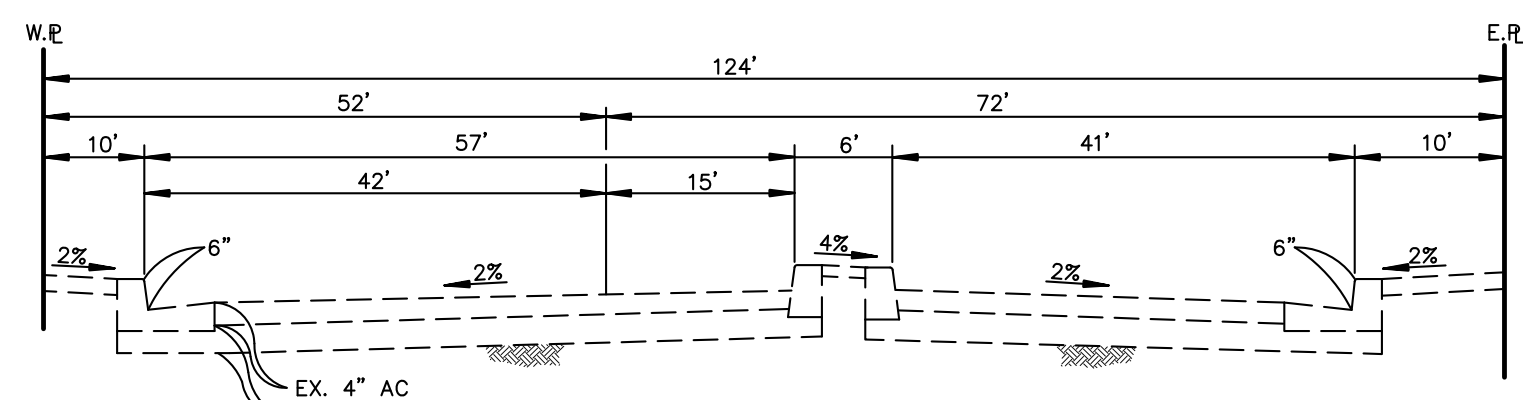
APPROVED

SCOTT O. SMITH R.C.E. 58655 CITY ENGINEER

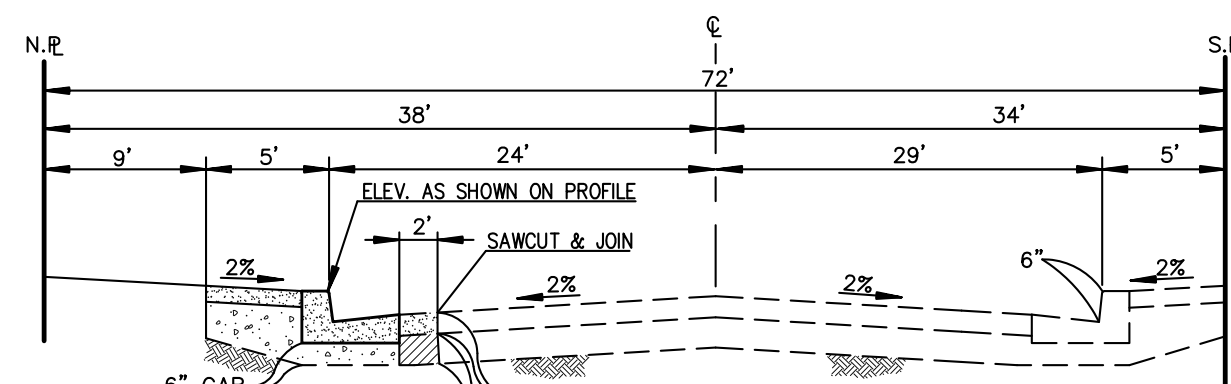
ENGINEER OF WORK: JOHNATHAN SAGHERIAN

Checked By: \_\_\_\_\_ PLAN NUMBER: \_\_\_\_\_

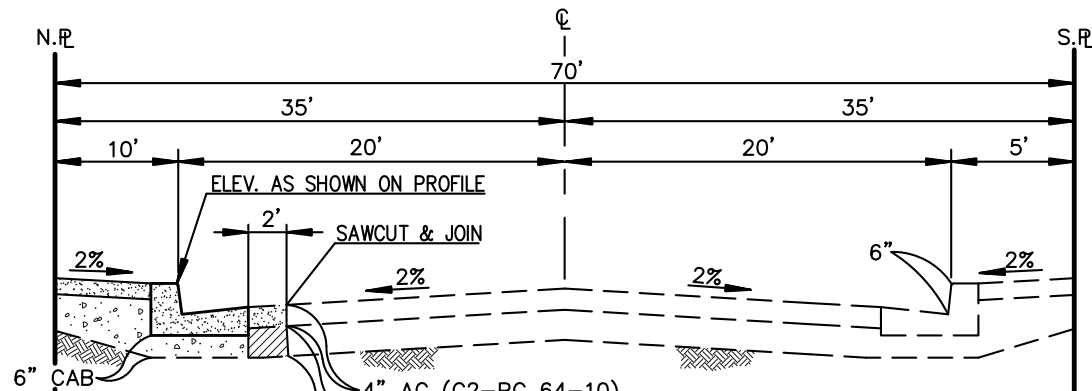
Approval Date: \_\_\_\_\_



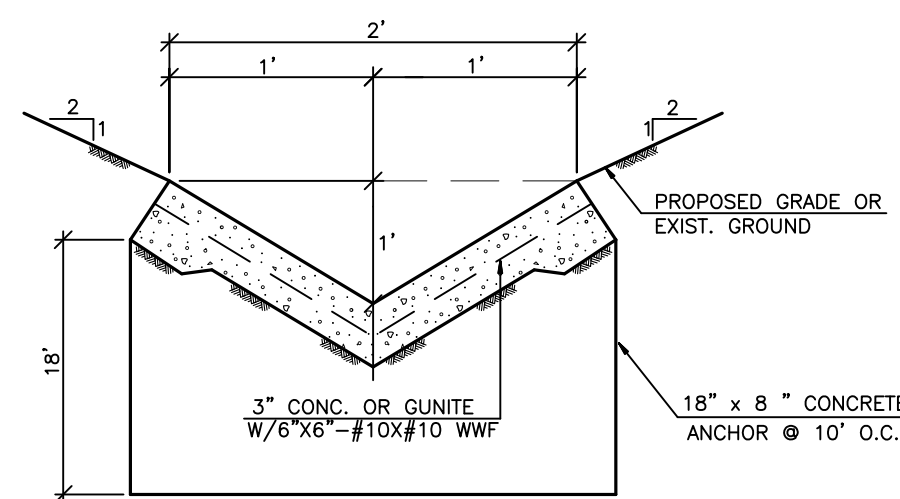
EL CAMINO REAL  
TYPICAL CROSS SECTION  
N.T.S.



0+96.56 TO 1+46.71  
TYPICAL CROSS SECTION  
N.T.S.



2+19.00 TO 4+35.75  
VIA LAS ROSAS  
TYPICAL CROSS SECTION  
N.T.S.



DOWN DRAIN (2)  
N.T.S.

**LEGEND**

- EXISTING CONSTRUCTION TO REMAIN UNLESS OTHERWISE NOTED.
- REMOVE EXISTING CEMENT CONCRETE.
- REMOVE EXISTING AC PAVEMENT (AND BASE, IF ANY).
- NEW 6" THICK CEMENT CONC. WALKS, SLABS, ETC., UNLESS OTHERWISE.
- NEW 2" THICK AC PAVEMENT OVER 6" CRUSHED MISCELLANEOUS BASE UNLESS OTHERWISE.
- PROPERTY LINE
- PRESENT GRADE CONTOUR
- NEW FINISHED SURFACE OR FINISHED GRADE CONTOUR
- EXISTING CHAIN LINK FENCE
- NEW FINISHED SURFACE ELEVATION (A.C. PAVEMENT OR CEM. CONC.)
- EXISTING SURFACE OR PRESENT GRADE ELEVATION
- NEW RIDGE
- EXISTING METER BOX
- SPRINKLER HEAD
- LIMIT OF A.C. P.V.M.T.
- PROPOSED RETAINING WALL
- EXISTING RETAINING WALL
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- (39.66 T.C.) TOP OF EXISTING CURB ELEVATION
- (36.12 F.L.) EXISTING FLOW LINE ELEVATION
- (39.83 T.C.B.) TOP OF NEW CATCH BASIN ELEV.
- (31.17 INV) NEW INVERT ELEVATION
- (23.12 T.C.B) EXISTING TOP OF CATCH BASING ELEV.
- 38.32 T.C. NEW TOP OF CURB ELEVATION
- FLOW LINE
- NEW STORM DRAIN LINE
- SEWER
- (G) EXISTING GAS LINE
- (E) EXISTING ELECTRIC LINE
- (W) EXISTING WATER LINE

**CONSTRUCTION NOTES**

- 1 CONST. CONC. DRIVEWAY PER S.D.R.S.D. #G-14F
- 2 CONST. ROLE OVER CURB & 2' GUTTER PER DET.#2 SHT.#3
- 3 CONST. 24"x24" CATCH BASIN PER DET.#1 SHT.#2
- 4 CONST. 6" HIGH CONC. CURB PER S.D.R.S.D. PLAN# G-1
- 5 CONST. CURB & GUTTER COMBINED PER S.D.R.S.D. PLAN# G-2
- 6 CONST. VARIABLE HEIGHT RET. WALL PER STRUCTURAL PLANS MAX. 10' HIGH
- 7 CONST. CURB RAMP PER S.D.R.S.D. PLAN#G-3 TYPE 1 & INSTALL DETECTABLE WARNING TILES.
- 8 EX. RETAINING WALL TO BE REMOVED
- 9 CONST. OUTLET STRUCTURE PER L.I.D. PLANS/SHT.#G-6
- 10 CONST. 6" ST. PAVEMENT
- 11 CONST. 2' WIDE DOWN DRAIN PER DET.#2 SHT.#2
- 12 CONST. 5' CHAIN LINK FENCE
- 13 CONST. 42" HIGH IRON FENCE ON VARIABLE HEIGHT RET. WALL
- 14 EXIST. CRIB WALL TO REMAIN
- 15 CONST. DIRT ROAD
- 16 CONST. DISABLED PARKING STALL PER S.D.R.S.D. M-27A
- 17 CONST. TRENCH DRAIN PER DET.#3 SHT.#4

**CURVE DATA**

| NO. | Δ          | R      | L      | REM     |
|-----|------------|--------|--------|---------|
| 1   | 90°00'00"  | 15.00' | 23.56' | ON CURB |
| 2   | 90°00'00"  | 21.50' | 33.77' | ON CL   |
| 3   | 90°00'00"  | 28.00' | 43.98' | ON CURB |
| 4   | 128°00'00" | 13.75' | 30.77' | ON CURB |
| 5   | 128°00'00" | 25.77' | 57.83' | ON CL   |
| 6   | 128°00'00" | 37.79' | 84.44' | ON CURB |
| 7   | 29°01'54"  | 49.00' | 24.83' | ON CURB |
| 8   | 39°40'56"  | 37.00' | 25.63' | ON CL   |

**2424 CAST IRON GRATE**  
112 lbs.

**2424 STEEL GRATES**  
48 lbs. 103 lbs.

**2424 STEEL COVER**  
81 lbs. 114 lbs.

**2424 TOP SECTION (WITH GALVANIZED FRAME)**

**2424 LOWER SECTION (NO FRAME)**  
NOTE: USE 12" x 12" x 24" LOWERS TO INCREASE DEPTH UP TO A MAXIMUM OF 72"

**2424 BOTTOM SECTION (WITH OR WITHOUT FRAME)**

**24" x 24" CATCH BASIN**  
2424 CB

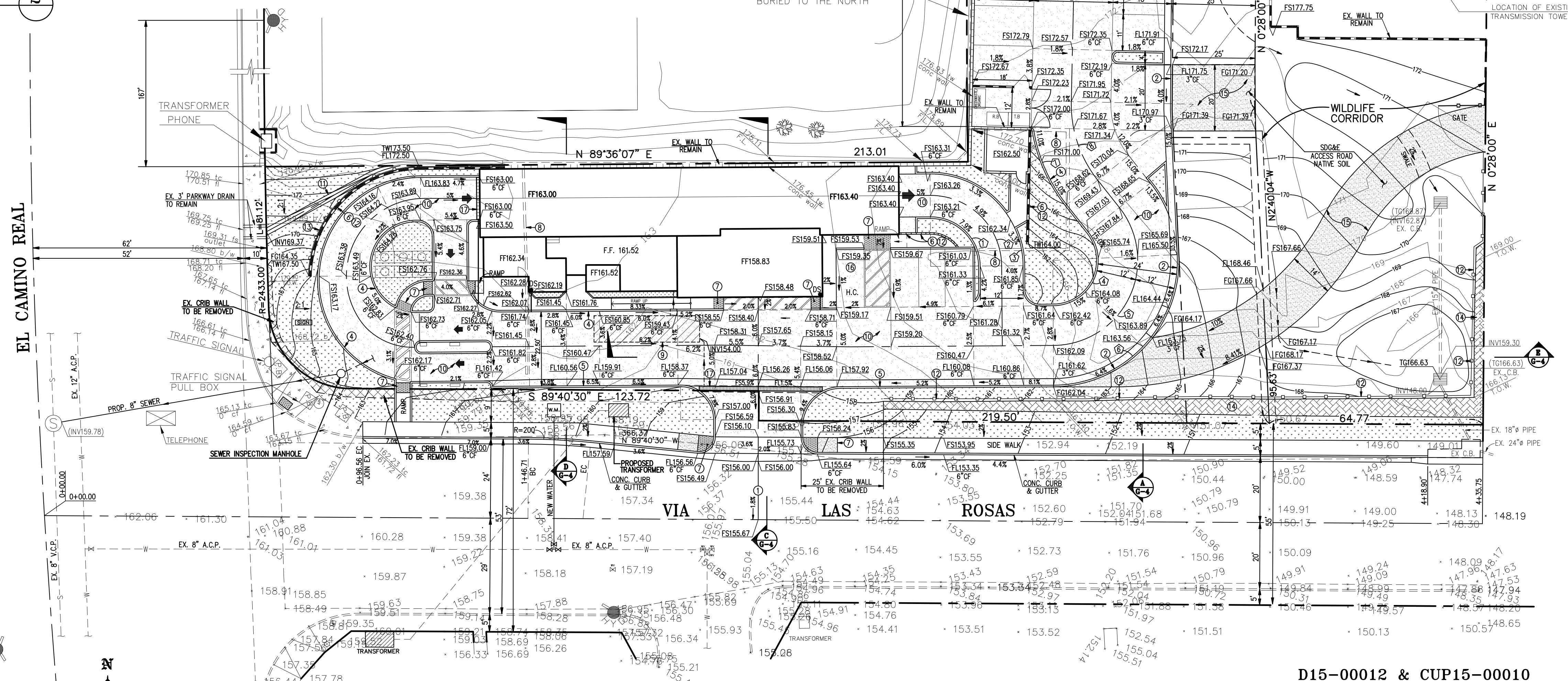
| TOP SECTION | H.T. | LBS | KNOCK-OUTS    |
|-------------|------|-----|---------------|
| 2424 T6     | 6"   | 270 | NONE          |
| 2424 T12    | 12"  | 495 | (4) 6" x 11"  |
| 2424 T18    | 18"  | 745 | (4) 9" x 12"  |
| 2424 T24    | 24"  | 870 | (4) 14" x 14" |

| EXTENSION SECTION | H.T. | LBS | KNOCK-OUTS |
|-------------------|------|-----|------------|
| 2424 E6           | 6"   | 270 | NONE       |

| LOWER SECTION | H.T. | LBS | KNOCK-OUTS    |
|---------------|------|-----|---------------|
| 2424 L12      | 12"  | 495 | (4) 6" x 11"  |
| 2424 L18      | 18"  | 745 | (4) 9" x 12"  |
| 2424 L24      | 24"  | 870 | (4) 14" x 14" |

| BOTTOM SECTION | H.T. | LBS  | KNOCK-OUTS    |
|----------------|------|------|---------------|
| 2424 B30       | 30"  | 1595 | (4) 18" x 18" |
| 2424 B36       | 36"  | 1905 | (4) 18" x 18" |

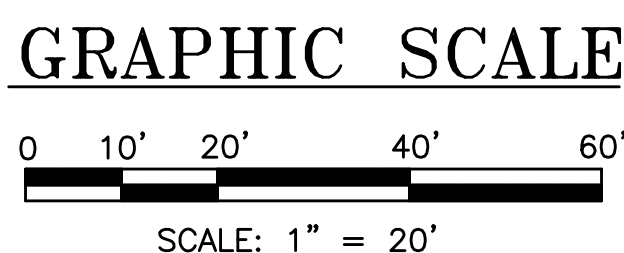
NOTES:  
1. GRATES AND COVERS AVAILABLE PAINTED BLACK OR GALVANIZED  
2. "ADA" GRATES AVAILABLE IN PARKWAY & TRAFFIC  
3. "WELL PROOF" GRATES AVAILABLE IN PARKWAY ONLY  
4. A TOP SECTION WITH FRAME MUST BE USED IF BOLT DOWN REQUIRED



**STORM WATER PLAN**

LOT AREA = 55817.10 SQ FT = 1.28 AC

**24" X 24" CATCH BASIN (1)**  
N.T.S.



PLANS APP. BY WT. DEPT. DATE

PREPARED BY: **JK ASSOCIATES THE CHOICE**  
CIVIL CONSULTING ENGINEERS  
1295 LOS ANGELES ST. BLDG. #4  
GLENDALE CA. 91204  
TEL: (619) 907-9881  
FAX: (619) 902-9882

APPROVED CHANGES:

| NO. | DESCRIPTION | APPVD | DATE |
|-----|-------------|-------|------|
|     |             |       |      |

BENCHMARK: \_\_\_\_\_  
Location: \_\_\_\_\_  
Record From: \_\_\_\_\_  
Elev: \_\_\_\_\_ Datum: \_\_\_\_\_

D15-00012 & CUP15-00010

SHEET 2 CITY OF OCEANSIDE PUBLIC WORKS DEPARTMENT 7 SHEETS

**GRADING & DRAINAGE PLAN FOR DOLPHIN GREEN CAR WASH**

**STORM WATER PLAN**

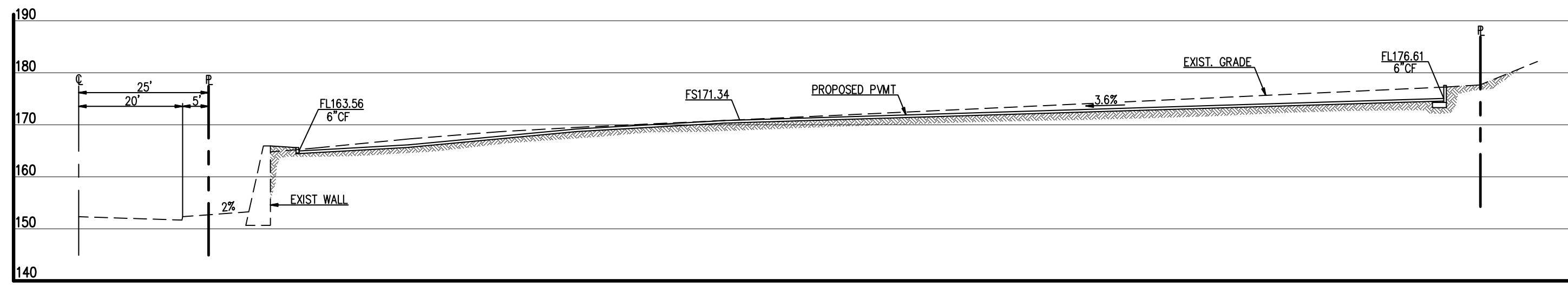
APPROVED

SCOTT O. SMITH R.C.E. 58655 CITY ENGINEER

ENGINEER OF WORK JOHNATHAN SAGHERIAN

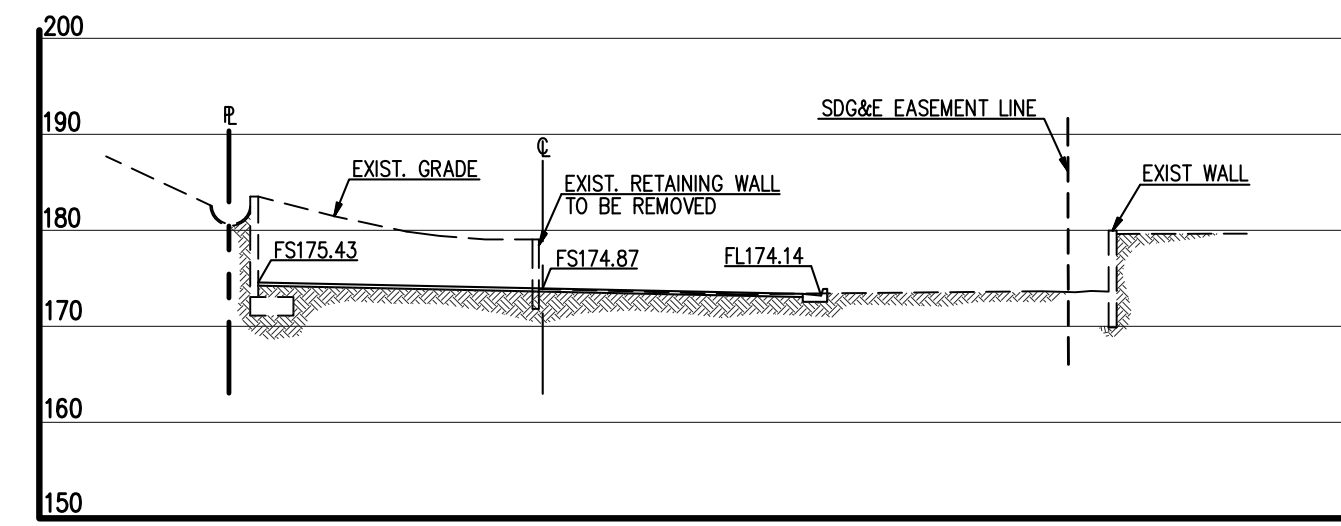
Checked By: \_\_\_\_\_ PLAN NUMBER \_\_\_\_\_

Approval Date: \_\_\_\_\_



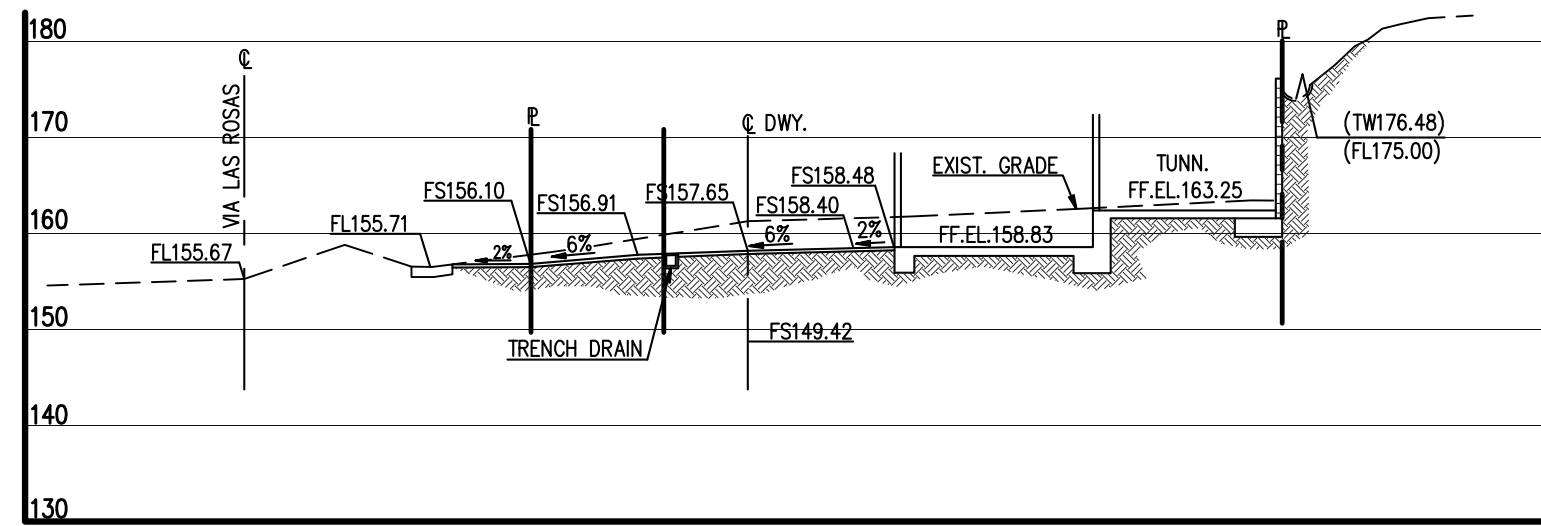
**SECTION A-A**

SCALE: 1" = 20'



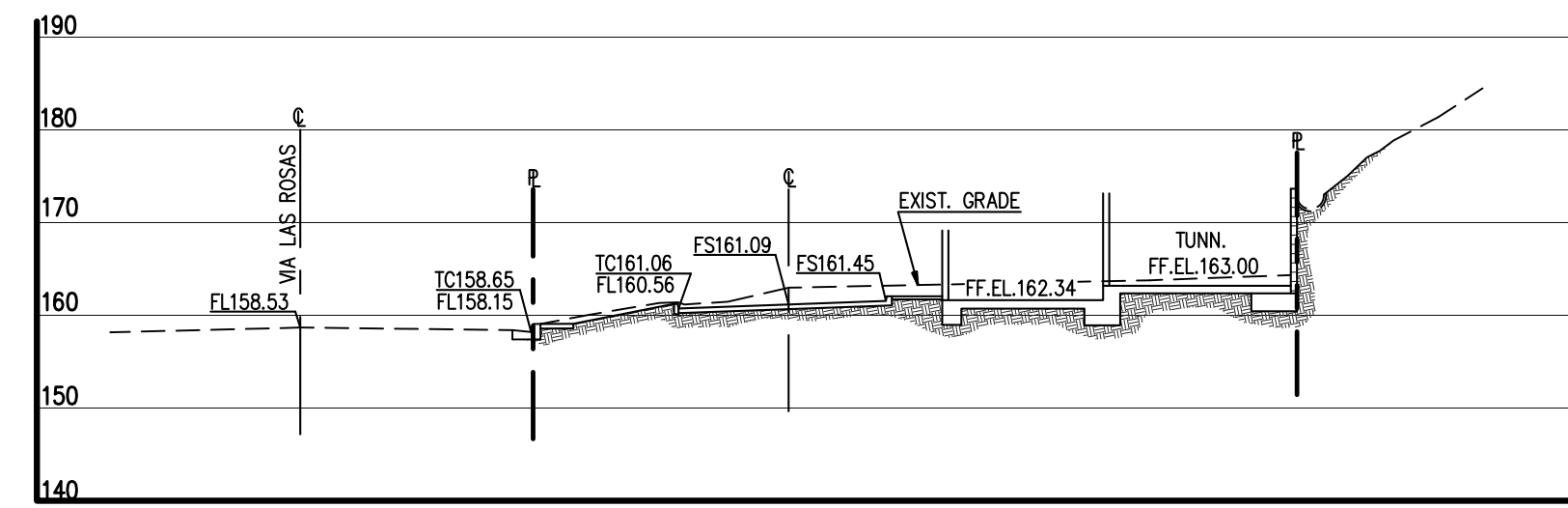
**SECTION B-B**

SCALE: 1" = 20'



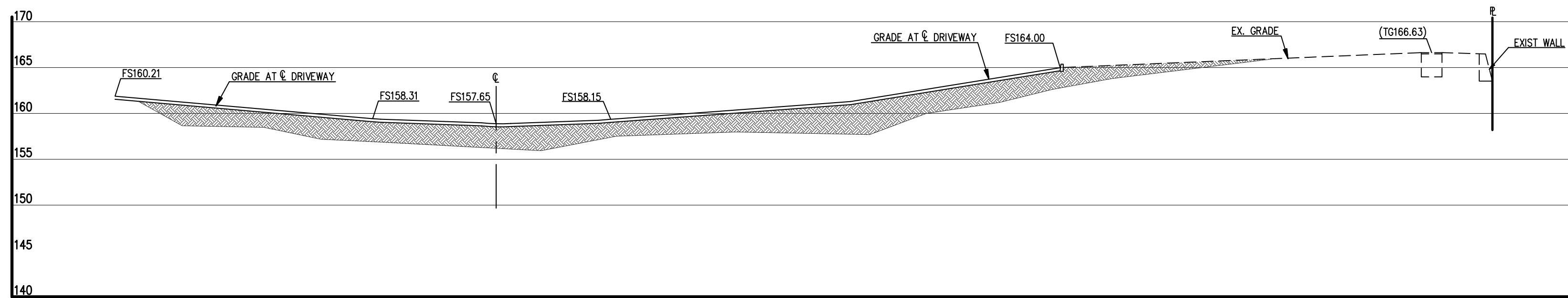
**SECTION C-C**

SCALE: 1" = 20'



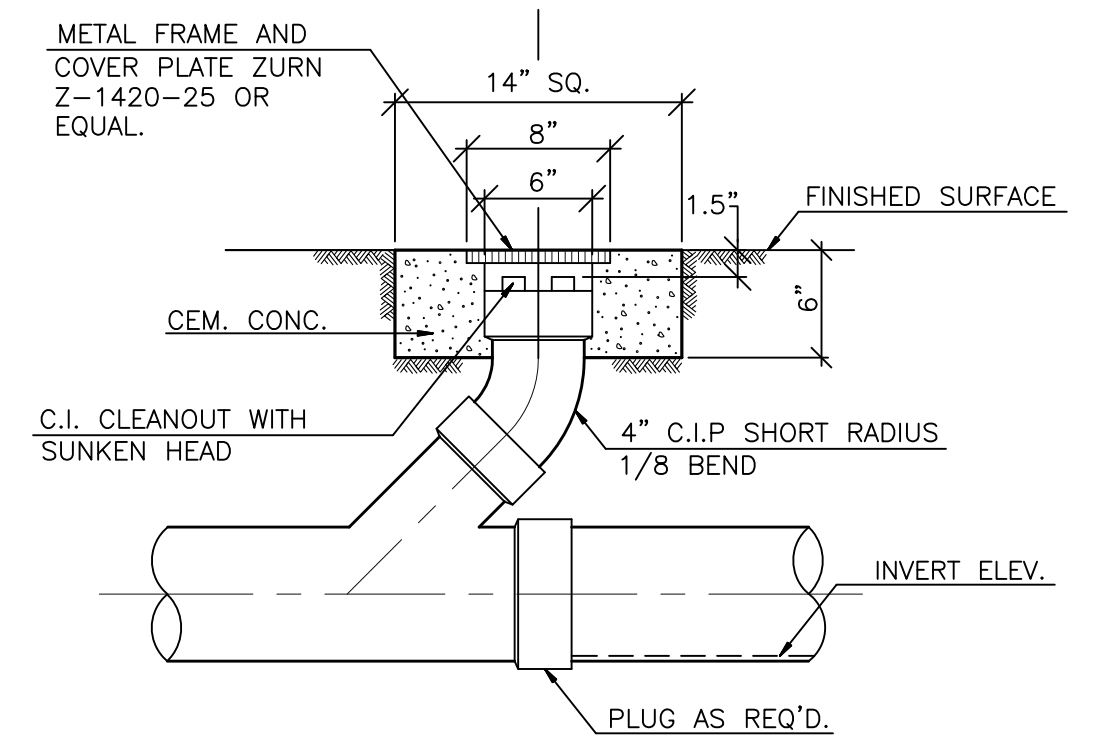
**SECTION D-D**

SCALE: 1" = 20'



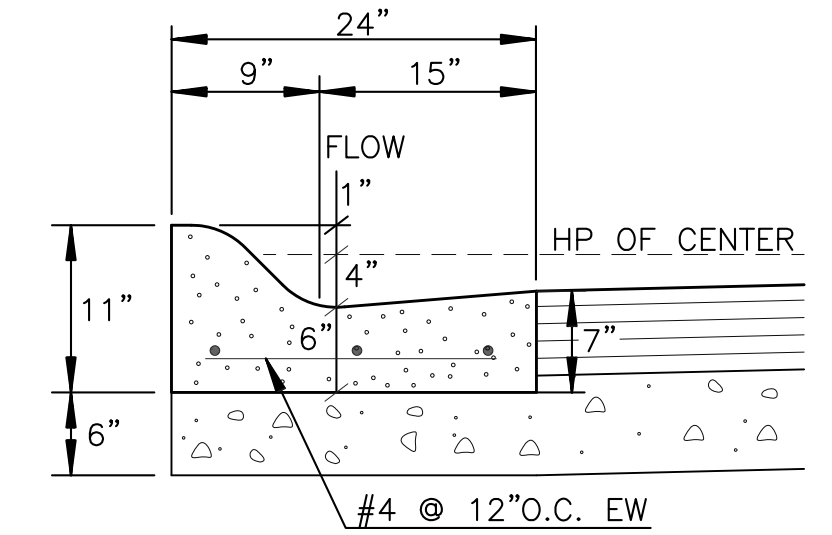
**SECTION E-E**

SCALE: 1" = 20'



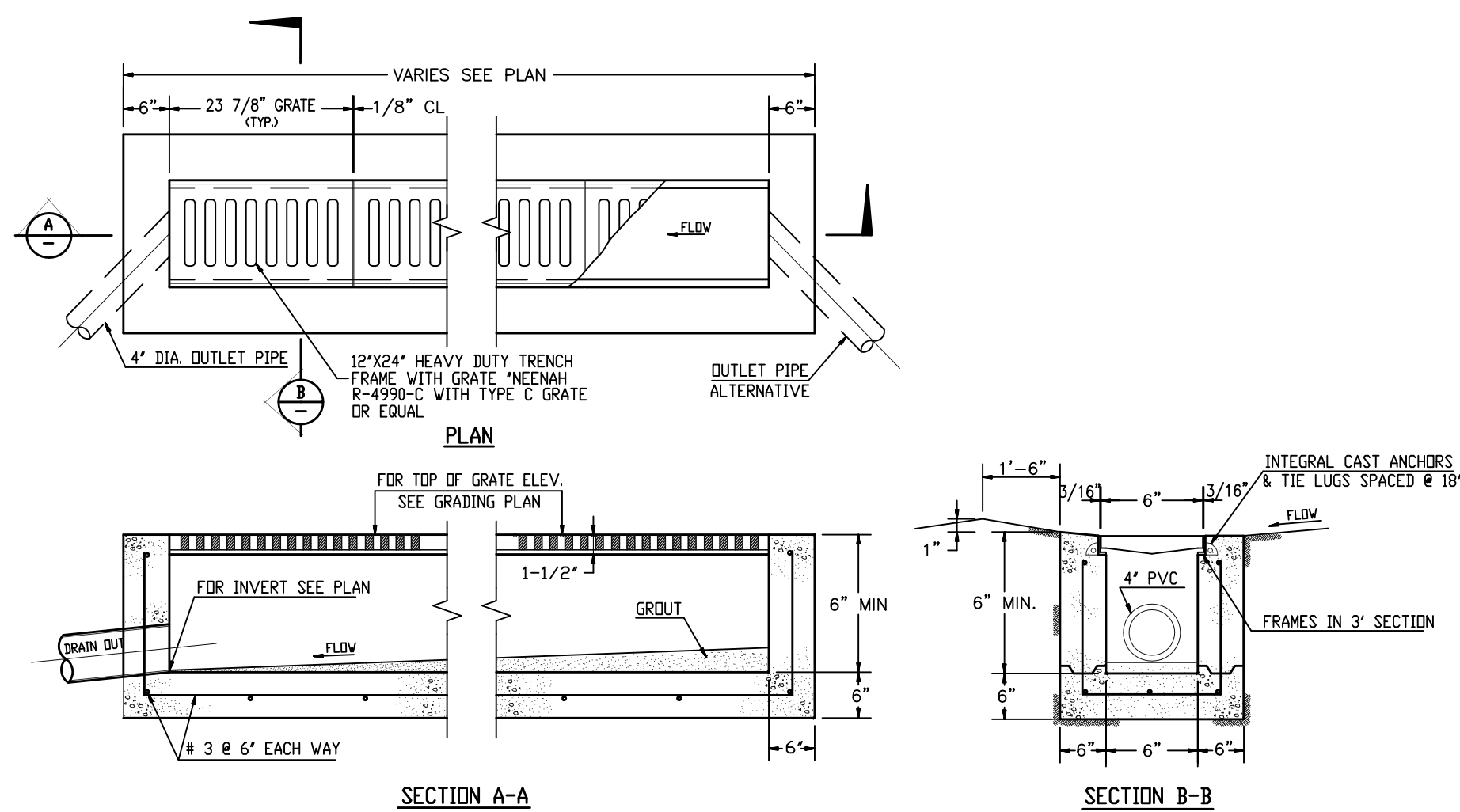
**CLEANOUT DETAIL 1**

N.T.S.



**ROLLED CURB & GUTTER DETAIL 2**

N.T.S.



**TRENCH DRAIN 3**

N.T.S.

PLANS APP. BY WT. DEPT.

WT. UTILITIES DIR. DATE

PREPARED BY:

**JK ASSOCIATES THE CHOICE**  
 CIVIL CONSULTING ENGINEERS  
 1296 LOS ANGELES ST. BLDG. #4  
 GLENDALE, CA. 91204  
 TEL: (618) 507-9881  
 FAX: (618) 502-9882

APPROVED CHANGES:

| NO. | DESCRIPTION | APPVD | DATE |
|-----|-------------|-------|------|
|     |             |       |      |
|     |             |       |      |
|     |             |       |      |

BENCHMARK:

Description:

Location:

Record From:

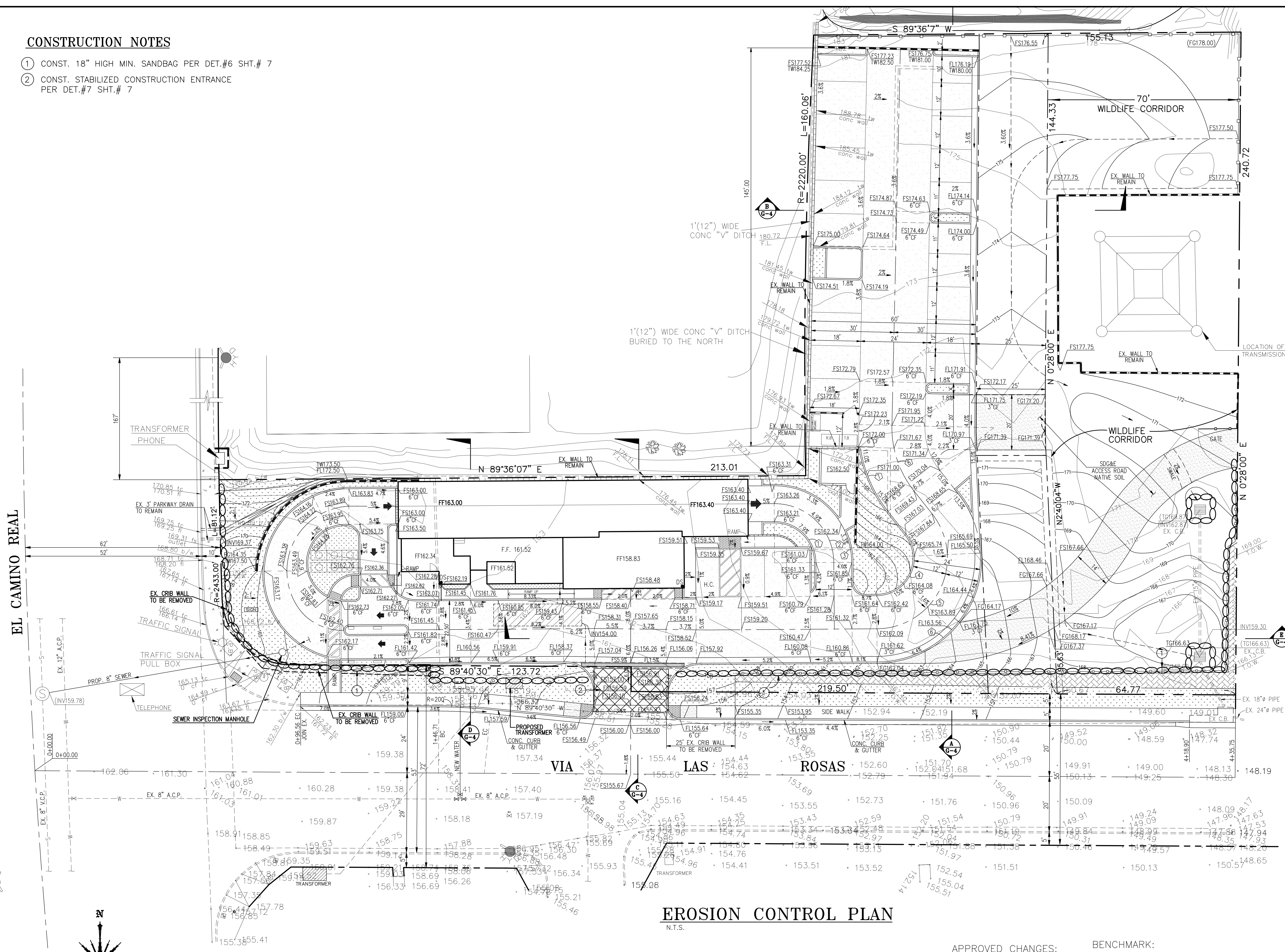
Elev. Datum:

D15-00012 & CUP15-00010

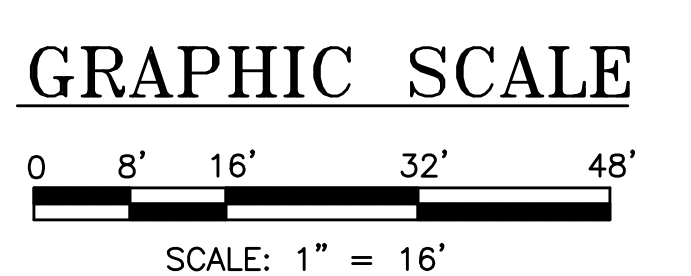
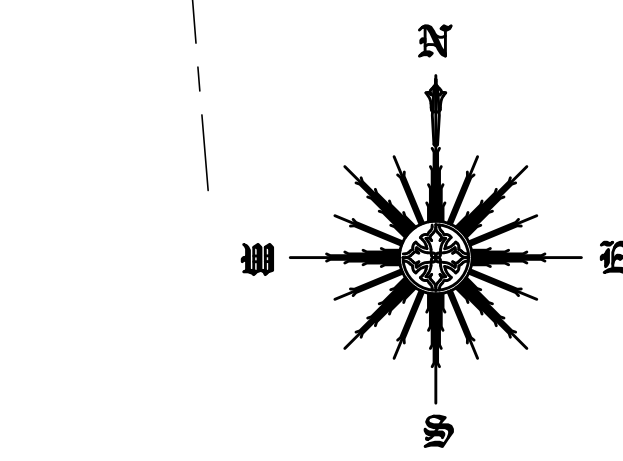
|  |  |                    |
|--|--|--------------------|
| SHEET<br><b>3</b>  | CITY OF OCEANSIDE<br>PUBLIC WORKS DEPARTMENT | <b>7</b><br>SHEETS |
| <b>GRADING &amp; DRAINAGE PLAN FOR<br/>DOLPHIN GREEN CAR WASH<br/>SECTIONS AND DETAILS</b> |  |                    |
| APPROVED   |  |                    |
| SCOTT O. SMITH   | R.C.E. 58655                                 | CITY ENGINEER:     |
| ENGINEER OF WORK   | Checked By:                                  | PLAN NUMBER        |
| JOHNATHAN SAGHERIAN  | Approval Date:                               |                    |

**CONSTRUCTION NOTES**

- ① CONST. 18" HIGH MIN. SANDBAG PER DET.#6 SHT.# 7
- ② CONST. STABILIZED CONSTRUCTION ENTRANCE PER DET.#7 SHT.# 7



EL CAMINO REAL



**EROSION CONTROL PLAN**  
N.T.S.

PLANS APP. BY WT. DEPT.  
WT. UTILITIES DIR. DATE

PREPARED BY: **JK ASSOCIATES THE CHOICE**  
CIVIL CONSULTING ENGINEERS  
1295 LOS ANGELES ST. BLDG. #4  
GLENNDALE CA. 91204  
TEL: (618) 507-9881  
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| APPROVED CHANGES: |             |       |      |
|-------------------|-------------|-------|------|
| NO.               | DESCRIPTION | APPVD | DATE |
|                   |             |       |      |
|                   |             |       |      |
|                   |             |       |      |

BENCHMARK:  
Description: \_\_\_\_\_  
Location: \_\_\_\_\_  
Record From: \_\_\_\_\_  
Elev: \_\_\_\_\_ Datum: \_\_\_\_\_

**D15-00012 & CUP15-00010**

|  |   |                |
|--|---|----------------|
| SHEET 4  | CITY OF OCEANSIDE PUBLIC WORKS DEPARTMENT | 7 SHEETS       |
| <b>GRADING &amp; DRAINAGE PLAN FOR DOLPHIN GREEN CAR WASH EROSION CONTROL PLAN</b> |   |                |
| APPROVED   |   |                |
| SCOTT O. SMITH   | R.C.E. 58655                              | CITY ENGINEER: |
| ENGINEER OF WORK   | Checked By:                               | PLAN NUMBER    |
| JOHNATHAN SAGHERIAN  | Approval Date:                            |                |



