

GENERAL NOTES AND REQUIREMENTS

- 1. A PERMIT SHALL BE OBTAINED FROM THE COUNTY DEPARTMENT OF PUBLIC WORKS FOR ANY WORK WITHIN THE STREET RIGHT OF WAY.
2. THE STRUCTURAL SECTION SHALL BE PER GEOTECHNICAL REPORT RECOMMENDATION AND IN ACCORDANCE WITH SAN DIEGO COUNTY STANDARDS AND AS APPROVED BY THE MATERIALS LABORATORY.
3. APPROVAL OF THESE IMPROVEMENT PLANS AS SHOWN DOES NOT CONSTITUTE APPROVAL OF ANY CONSTRUCTION OUTSIDE THE PROJECT BOUNDARY.
4. ALL UNDERGROUND UTILITIES WITHIN THE STREET RIGHT-OF-WAY SHALL BE CONSTRUCTED, CONNECTED AND TESTED PRIOR TO CONSTRUCTION OF BERM, CURB, CROSS GUTTER AND PAVING.
5. THE EXISTENCE AND LOCATION OF EXISTING UNDERGROUND FACILITIES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO OTHER EXISTING FACILITIES SHOWN ON THESE PLANS. HOWEVER, THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING FACILITY SHOWN HEREON AND ANY OTHER WHICH IS NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
6. LOCATION AND ELEVATION OF IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK. CONTRACTOR WILL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES. APPROVAL OF RAINBOW MWD OF A PROPOSED CONNECTION TO A RAINBOW MWD FACILITY DOES NOT IMPLY APPROVAL OF THE CORRECTNESS OF THE ELEVATION AND/OR LOCATION SHOWN ON THE PLANS. ANY DEVIATION FROM THE PLANS MUST BE APPROVED BY THE ENGINEER OF THE RAINBOW MWD PRIOR TO CONSTRUCTION.
7. THE CONTRACTOR SHALL NOTIFY THE SAN DIEGO GAS & ELECTRIC COMPANY PRIOR TO STARTING WORK NEAR COMPANY FACILITIES AND SHALL COORDINATE HIS WORK WITH COMPANY REPRESENTATIVES.
8. THE CONTRACTOR SHALL NOTIFY AT&T TELEPHONE COMPANY PRIOR TO STARTING WORK NEAR COMPANY FACILITIES AND SHALL COORDINATE HIS WORK WITH COMPANY REPRESENTATIVES.
9. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CONTACT THE UTILITY AGENCIES, ADVISE THEM OF THE PROPOSED IMPROVEMENTS, AND BEAR THE COST OF RELOCATIONS, IF NEEDED.
10. ALL TELEVISION SERVICES WITHIN THIS PROJECT ARE "UNDERGROUND INSTALLATIONS". FOR LOCATION OF CABLES AND APPURTENANCES CONTACT APPROPRIATE COMPANY.
11. CONSTRUCT A PUBLIC STREET LIGHTING SYSTEM CONFORMING TO SAN DIEGO COUNTY STANDARDS AND STREET LIGHT SPECIFICATIONS. POWER SOURCES AND RUNS SERVING STREET LIGHTS SHALL BE SHOWN ON THE "AS-BUILT" IMPROVEMENT DRAWINGS. ALL POWER SOURCES SHALL BE LOCATED WITHIN THE DEDICATED RIGHT-OF-WAY.
12. NO PAVING SHALL BE DONE UNTIL EXISTING POWER POLES ARE RELOCATED OUTSIDE THE AREAS TO BE PAVED.
13. PRIVATE ROAD IMPROVEMENTS SHOWN HEREON ARE FOR INFORMATION ONLY. COUNTY OFFICIALS SIGNATURE HEREON DOES NOT CONSTITUTE APPROVAL OR RESPONSIBILITY OF ANY KIND FOR THE DESIGN OR CONSTRUCTION OF THESE PRIVATE IMPROVEMENTS.
14. ALL SIGNS TO BE ALUMINUM WITH 3M HIGH INTENSITY TYPE REFLECTIVE FACE OR EQUIVALENT.
15. CONTRACTOR WILL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY STRIPING, PAVEMENT MARKERS, OR LEGENDS OBLIGATED BY THE CONSTRUCTION OF THIS PROJECT.
16. ALL NEW STRIPING AND SANDBLASTING OF REDUNDANT STRIPING SHALL BE DONE BY CONTRACTOR.
17. ALL CUT AND FILL SLOPES THREE FEET (3') CREATED BY GRADING FOR STREETS AND DRIVEWAYS SHALL BE HYDROSEEDED WITH SAN DIEGO COUNTY APPROVED HYDROSEED MIXTURE. HYDROSEED SLOPES SHALL BE IRRIGATED BY WATER TRUCK UNTIL THE MIXTURE GERMINATES AND GROWTH IS ESTABLISHED.
18. ALL INTERSECTING ROADS AND DRIVEWAYS SHALL BE GRADED AND/OR RECONSTRUCTED AS REQUIRED TO MATCH NEW IMPROVEMENTS AND PROVIDE SMOOTH TRANSITION.
19. THE CONTRACTOR SHALL NOTIFY RAINBOW MWD, ENGINEERING DIVISION AT LEAST FIVE (5) DAYS PRIOR TO STARTING WORK OR AT LEAST THREE (3) WEEKS IF SHUTDOWN IS REQUIRED. THE INSPECTOR SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO ANY INSPECTION. TO ARRANGE FOR INSPECTION, CALL (760) 728-1178.
20. SEPARATION REQUIREMENTS BETWEEN WATER AND SEWER LINES SHALL CONFORM TO STATE DEPARTMENT OF HEALTH SERVICES "CRITERIA FOR SEPARATION OF WATER MAINS AND SANITARY SEWERS".
21. ALL WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITIONS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, WITH SUPPLEMENTS (APWA SPECIFICATIONS), THE SAN DIEGO REGIONAL STANDARD DRAWINGS AND RAINBOW MWD STANDARDS MANUAL.
22. CONTRACTOR SHALL NOT BACKFILL TRENCH UNTIL THE INSPECTOR HAS INSPECTED THE PIPE OR STRUCTURE AND AUTHORIZED THE TRENCH TO BE BACKFILLED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ACCURATE "RECORD" DRAWINGS TO RAINBOW MWD IMMEDIATELY AFTER CONSTRUCTION.
23. APPROVAL BY RAINBOW MWD IMPLIES NO PERMISSION OTHER THAN THAT WITHIN THE DISTRICT'S JURISDICTION. ALL PERMITS REQUIRED BY LAW SHALL BE ACQUIRED BY THE APPLICANT OR HIS CONTRACTOR. REQUIREMENTS OF RAINBOW MWD SHALL TAKE PRECEDENCE OVER REQUIREMENTS OF OTHER AGENCIES ONLY WHERE RAINBOW MWD REQUIREMENTS ARE MORE STRINGENT.
24. 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.
25. PIPE JOINTS SHALL NOT BE PULLED AT ANY ANGLE GREATER THAN THE MAXIMUM ANGLE RECOMMENDED BY THE PIPE MANUFACTURER.
26. THE PROPOSED WORK SHALL BE SUBORDINATED TO ANY OPERATIONS RAINBOW MWD MAY CONDUCT, AND SHALL BE COORDINATED WITH SUCH OPERATIONS AS DIRECTED BY RAINBOW MWD.
27. A PRE-CONSTRUCTION MEETING SHALL OCCUR PRIOR TO CONSTRUCTION. ATTENDEES SHALL INCLUDE A RAINBOW MWD REPRESENTATIVE AND THE CONTRACTOR WHO WILL PERFORM THE WORK, AND OTHER GOVERNMENTAL AGENCIES AND/OR UTILITY COMPANIES AS NECESSARY. "CUT-SHEETS" SHALL BE PROVIDED TO RAINBOW MWD PRIOR TO THIS MEETING FOR REVIEW.

GENERAL NOTES AND REQUIREMENTS (CONT.)

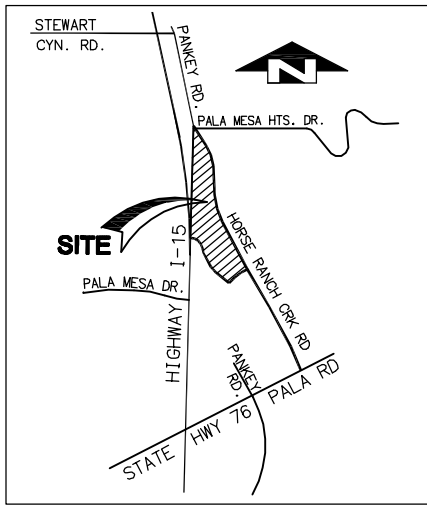
- 28. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT STATE OF CALIFORNIA MANUAL OF TRAFFIC CONTROLS. THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL ON THE JOBSITE.
29. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING, ADMINISTERING AND MAINTAINING A CONFINED SPACE ENTRY PROGRAM PER THE CALIFORNIA CODE OF REGULATIONS.
30. PIPE SHALL BE HANDLED (WITH STRAPS, NO CHAINS) SO AS TO PROTECT PIPE JOINTS, LINING AND COATING, AND CAREFULLY BEDDED TO PROVIDE CONTINUOUS BEARING AND PREVENT SETTLEMENT. PIPE SHALL BE PROTECTED AGAINST FLOTATION AT ALL TIMES. OPEN ENDS SHALL BE SEALED AT ALL TIMES WHEN CONSTRUCTION IS IN PROCESS.
31. ALL RAINBOW MWD FACILITIES SHALL HAVE A MINIMUM 5' (FOOT) CLEARANCE FROM OTHER UTILITIES. THIS PERTAINS TO ALL SECTIONS ON ALL SHEETS HEREIN.
32. ALL ROUGH ROAD GRADING SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF WATER AND SEWER FACILITIES.
33. THE ENGINEER SHALL PROVIDE RAINBOW MWD WITH AS-BUILT PHOTO MYLARS AND ELECTRONIC FILE IN TIF FORMAT.
34. UPON COMPLETION, THE CONTRACTOR SHALL HIRE A VIDEO COMPANY APPROVED BY THE DISTRICT TO VIDEOTAPE THE CM&C WATER MAINS. THE DISTRICT ENGINEER SHALL REVIEW SAID VIDEOTAPE FOR POTENTIAL CONSTRUCTION DEFECTS PRIOR TO ACCEPTANCE OF THE PROJECT. PAYMENT FOR ALL SERVICES SHALL BE BORNE BY THE CONTRACTOR.
35. IMPORT MATERIAL SHALL BE OBTAINED FROM A LEGAL SITE.

GRADING PLAN GENERAL NOTES

- 1. APPROVAL OF THIS GRADING PLAN DOES NOT CONSTITUTE APPROVAL OF VERTICAL OR HORIZONTAL ALIGNMENT OF ANY PRIVATE ROAD SHOWN HEREON FOR COUNTY ROAD PURPOSES.
2. FINAL APPROVAL OF THESE GRADING PLANS SUBJECT TO FINAL APPROVAL OF THE ASSOCIATED IMPROVEMENT PLANS WHERE APPLICABLE. FINAL CURB GRADE ELEVATIONS MAY REQUIRE CHANGES IN THESE PLANS.
3. IMPORT MATERIAL SHALL BE OBTAINED FROM A LEGAL SITE.
4. A CONSTRUCTION, EXCAVATION OR ENDOACHMENT PERMIT FROM THE DEPARTMENT OF PUBLIC WORKS WILL BE REQUIRED FOR ANY WORK IN THE COUNTY RIGHT OF WAY.
5. ALL SLOPES OVER THREE FEET IN HEIGHT WILL BE PLANTED IN ACCORDANCE WITH SAN DIEGO COUNTY SPECIFICATIONS.
6. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK. NOTICE OF PROPOSED WORK SHALL BE GIVEN TO THE FOLLOWING AGENCIES.
7. A SOILS REPORT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
8. APPROVAL OF THESE PLANS BY THE DIRECTOR OF PUBLIC WORKS DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL THE PROPERTY OWNER'S PERMISSION HAS BEEN OBTAINED AND VALID GRADING PERMIT HAS BEEN ISSUED.
9. THE DIRECTOR OF PUBLIC WORKS APPROVAL OF THESE PLANS DOES NOT CONSTITUTE COUNTY BUILDING OFFICIAL APPROVAL OF ANY FOUNDATION FOR STRUCTURES TO BE PLACED ON THE ITEMS COVERED BY THESE PLANS. NO WAIVER OF THE GRADING ORDINANCE REQUIREMENTS CONCERNING MINIMUM COVER EXPANSIVE SOIL IS MADE OR IMPLIED (SECTIONS 87.403 & 87.410). ANY SUCH WAIVER MUST BE OBTAINED FROM THE DIRECTOR OF PLANNING AND LAND USE.
10. 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 GRADING EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00 AM AND 6:00 PM EACH DAY, MONDAY THRU SATURDAY, AND NO EARTHMOVING OR GRADING OPERATIONS SHALL BE CONDUCTED ON THE PREMISE ON SUNDAYS OR HOLIDAYS.
11. ALL MAJOR SLOPES SHALL BE ROUNDED INTO EXISTING TERRAIN TO PRODUCE A CONTOURED TRANSITION FROM CUT OR FILL FACES TO NATURAL GROUND AND ABUTTING CUT OR FILL SURFACES.
12. NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE GRADING ORDINANCE AND NOTWITHSTANDING THE APPROVAL OF THESE GRADING PLANS, THE PERMITTEE IS RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO ADJACENT PROPERTY. NO PERSON SHALL EXCAVATE ON LAND SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY PROTECTING SUCH PROPERTY FROM SETTLING, CRACKING, EROSION SILTING, SCOUR OR OTHER DAMAGE WHICH MIGHT RESULT FROM THE GRADING DESCRIBED ON THIS PLAN. THE COUNTY WILL HOLD THE PERMITTEE RESPONSIBLE FOR CORRECTION OF NON-DEDICTED IMPROVEMENTS WHICH DAMAGE ADJACENT PROPERTY.
13. SLOPE RATIOS & EARTHWORK:
CUT - 2:1
FILL - 2:1
EXCAVATION: 270,000 CY
FILL: 270,000 CY
WASTE/IMPORT: 0 CY

- GAS & ELECTRIC: SD&GE TELEPHONE NO. (619) 696-2000
TELEPHONE: AT&T TELEPHONE NO. (760) 510-6000
CATV: TIME WARNER CABLE TELEPHONE NO. (760) 707-1000
SEWER: RAINBOW MWD TELEPHONE NO. (760) 728-1178
WATER: RAINBOW MWD TELEPHONE NO. (760) 728-1178
NOTE: A SEPARATE VALID PERMIT MUST EXIST FOR EITHER WASTE OR IMPORT AREAS)

IMPROVEMENT PLANS FOR HORSE RANCH CREEK ROAD



VICINITY MAP N.T.S.

GRADING PLAN GENERAL NOTES (CONTINUED)

- 14. SPECIAL CONDITION: IF ANY ARCHEOLOGICAL RESOURCES ARE DISCOVERED ON THE SITE OF THIS GRADING OPERATIONS, SUCH OPERATIONS WILL CEASE IMMEDIATELY, AND THE PERMITTEE WILL NOTIFY THE DIRECTOR OF PUBLIC WORKS OF THE DISCOVERY. GRADING OPERATIONS WILL NOT RECOMMENCE UNTIL THE PERMITTEE HAS RECEIVED WRITTEN AUTHORITY FROM THE DIRECTOR OF PUBLIC WORKS TO DO SO.
15. ALL GRADING DETAILS WILL BE IN ACCORDANCE WITH SAN DIEGO COUNTY STANDARD DRAWINGS DS-B, DS-10, DS-11, AND D-75.

GRADING & GEOTECHNICAL SPECIFICATIONS

- 1. ALL GRADING SHALL BE DONE UNDER OBSERVATION AND TESTING BY A QUALIFIED CIVIL ENGINEER OR GEOTECHNICAL ENGINEER AND, IF REQUIRED, BOTH A QUALIFIED CIVIL ENGINEER OR GEOTECHNICAL ENGINEER AND AN ENGINEERING GEOLOGIST. ALL GRADING MUST BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY ORDINANCE AND THE RECOMMENDATIONS AND SPECIFICATIONS SET FORTH IN THE SOILS REPORT OR GEOLOGICAL/GEOTECHNICAL INVESTIGATION ENTITLED:
GEOTECHNICAL ENGINEERING INVESTIGATION REPORT FOR HORSE RANCH CREEK ROAD, FALLBROOK, CA PREPARED BY: BUREAU VERITAS, DATED JULY 9, 2008 (PROJECT NO. 148620.30)
SUPPLEMENTAL GEOTECHNICAL ENGINEERING INVESTIGATION REPORT FOR HORSE RANCH CREEK ROAD, FALLBROOK, CA PREPARED BY: BUREAU VERITAS, DATED JANUARY 25, 2010 (PROJECT NO. 148943)
ALL FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE MOST RECENT VERSION OF A.S.T.M. D-1557 OR AN APPROVED ALTERNATIVE STANDARD.
3. IF THE GEOTECHNICAL CONSULTANT OF RECORD IS CHANGED FOR THE PROJECT, THE WORK SHALL BE STOPPED UNTIL THE REPLACEMENT HAS AGREED IN WRITING TO ACCEPT THE RESPONSIBILITY WITHIN THE AREA OF THEIR TECHNICAL COMPETENCE FOR APPROVAL UPON COMPLETION OF THE WORK. IT SHALL BE THE DUTY OF THE PERMITTEE TO NOTIFY THE CIVIL ENGINEER AND THE GEOLOGY SECTION OF THE DEVELOPMENT SERVICES DEPARTMENT IN WRITING OF SUCH CHANGE PRIOR TO THE RECOMMENCEMENT OF GRADING.
4. THESE GRADING PLANS HAVE BEEN REVIEWED BY THE UNDERSIGNED AND FOUND TO BE IN CONFORMANCE WITH THE RECOMMENDATIONS AND SPECIFICATIONS CONTAINED IN THE REFERENCED GEOTECHNICAL REPORT(S) PREPARED FOR THIS PROJECT.

BUREAU VERITAS NORTH AMERICA, INC. 7895 CONVOY COURT, SUITE 18 SAN DIEGO, CA 92111

CONTRACTOR'S NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE 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 COUNTY OF SAN DIEGO HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXPECTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF COUNTY OF SAN DIEGO PROFESSIONALS.

Table with columns: No., Description, Approved By, Date. Includes sections for CALTRANS, COUNTY APPROVED CHANGES, and FIRE AGENCY.

OWNER'S CERTIFICATE

IT IS AGREED THAT FIELD CONDITIONS MAY REQUIRE CHANGES TO THESE PLANS. IT IS FURTHER AGREED THAT THE OWNER (DEVELOPER) SHALL HAVE A REGISTERED CIVIL ENGINEER MAKE SUCH CHANGES, ALTERATIONS OR ADDITIONS TO THESE PLANS WHICH THE DIRECTOR OF PUBLIC WORKS DETERMINES ARE NECESSARY AND DESIRABLE FOR THE PROPER COMPLETION OF THE IMPROVEMENTS.

I HEREBY AGREE TO COMMENCE WORK ON ANY IMPROVEMENTS SHOWN ON THESE PLANS WITHIN EXISTING COUNTY RIGHT-OF-WAY WITHIN 60 DAYS AFTER ISSUANCE OF THE CONSTRUCTION PERMIT AND TO PURSUE SUCH WORK ACTIVITY ON EVERY NORMAL WORKING DAY UNTIL COMPLETED, IRRESPECTIVE AND INDEPENDENT OF ANY OTHER WORK ASSOCIATED WITH THIS PROJECT OR UNDER MY CONTROL.

BY: DR. BONNIE DOWD DATE: ASSISTANT SUPERINTENDENT/VICE PRESIDENT
ASSESSOR'S PARCEL: 108-120-58; 59 & 108-121-16
NAME: PALOMAR COMMUNITY COLLEGE DISTRICT
ADDRESS: 1140 WEST MISSION ROAD SAN MARCOS, CA 92069-1487 PH. (760)-744-1150

LEGAL DESCRIPTION

REAL PROPERTY IN THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA DESCRIBED AS PARCEL A OF CERTIFICATE OF COMPLIANCE RECORDED DECEMBER 11, 2006 AS DOCUMENT NO. 2006-0876284, BEING ALSO A PORTION OF PARCEL 1 OF PARCEL MAP 13703 RECORDED FEBRUARY 28, 1985 AS FILE 85-066725, BOTH OF OFFICIAL RECORDS.

ASSESSOR'S PARCEL NUMBER

108-120-58, 59, 58, 59
108-121-15, 16, 17
125-061-03, 04, 07, 09

PROJECT ENGINEER'S NOTE TO CONTRACTOR

THE LOCATIONS OF ANY UNDERGROUND STRUCTURES AS SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND ARE SHOWN FOR THE BENEFIT OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT ALL UNDERGROUND OR OVERHEAD STRUCTURES WHETHER SHOWN OR NOT ON THESE DRAWINGS.

BASIS OF BEARING

THE NAD 83, ZONE 6, GRID BEARING BETWEEN STATION SDGPS03 AND STATION MONSERATE (BOTH HAVING A CALIFORNIA COORDINATE VALUE OF FIRST ORDER OR BETTER) AS SAID STATIONS ARE PUBLISHED IN THE SAN DIEGO COUNTY HORIZONTAL CONTROL BOOK AND PER RECORD OF SURVEY 16442. I.E. N 7°35' 17" E

QUOTED BEARINGS FROM REFERENCE MAPS OR DEEDS MAY OR MAY NOT BE IN TERMS OF SAID SYSTEM.

THE COMBINED SCALE FACTOR (CSF) AT STATION SDGPS03 IS 0.99994459.

STATION INFORMATION:

SDGPS03: N 2065546.3676284088.94
2" DIA. BRASS DISK IN SIDEWALK PER ROS 16442 EPOCH 1991.35
MONSERATE: N 2080201.367 E 6287418.281
3.5" DIA. USCGS BRASS DISK IN BOULDER PER ROS 16442. EPOCH 991.35

DECLARATION OF RESPONSIBLE CHARGE

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

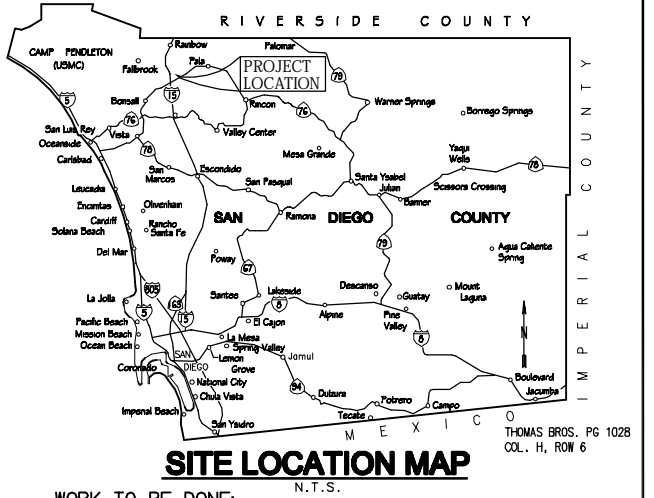
I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE COUNTY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

KEVIN G. VOGELSANG R.C.E. 41213 EXP. 03/31/11 DATE
RBF CONSULTING
9765 CLAREMONT MESA BLVD. SUITE 100
SAN DIEGO, CA 92124
(858) 614-5000



STORM WATER TREATMENT BMP TABLE ON SHEET 3

Table with columns: SHEET, PERMITS, BENCH MARK. Includes details for sheet 1 of 40, specific plan no. UY 4718\_GPA-09-006, and bench mark description.



SITE LOCATION MAP N.T.S.

WORK TO BE DONE:

IMPROVEMENTS CONSIST OF WORK TO BE DONE ACCORDING TO THE FOLLOWING PLANS & SPECIFICATIONS. WATER IMPROVEMENTS SHALL BE DONE ACCORDING TO THE CURRENT RAINBOW MUNICIPAL WATER DISTRICT (RMWD) STANDARD DRAWINGS & SPECIFICATIONS. THE CURRENT CALTRANS PLANS & SPECIFICATIONS (2006), & SAN DIEGO REGIONAL STANDARD DRAWINGS & THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2006 EDITION.

LEGEND

Legend table with columns: ITEM, STANDARD DRAWING, SYMBOL. Includes symbols for Right of Way, Street Centerline, Proposed 6" curb, AC berm, etc.

PRIVATE CONTRACT

Private Contract form for County of San Diego, Department of Public Works, 40 sheets. Title: HORSE RANCH CREEK ROAD TITLE SHEET. Includes fields for recommended for approval, approved for, and signature.

Vertical text on the left edge: H:\PDATA\25102702\CADD\LAND\DLV\STREET IMPROVEMENTS\TITLE SHEET\_KEY MAP\_DETAILS\2702-TT-001.DWG ARCHA 10/25/2010 1:30 PM

Vertical text on the right edge: IMPROVEMENT PLANS RBF CONSULTING, INC. ENGINEER: KEVIN G. VOGELSANG TELEPHONE: (858) 614-5000

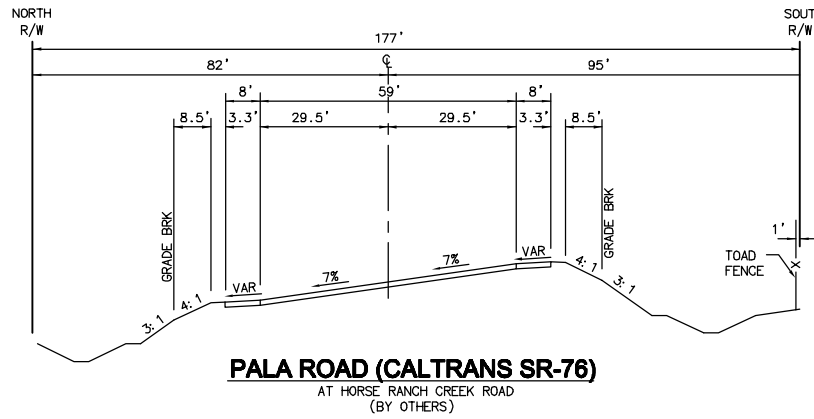


SHEET INDEX table listing 40 sheets: 1. TITLE SHEET, 2. NOTES AND STREET SECTIONS, 3. INDEX MAP, 4. DETAILS & BMP TABLE, etc.

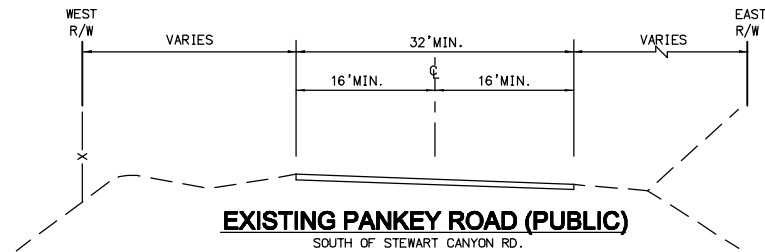
Logos and contact information for Fire Agency (North County Fire Protection District) and Rainbow Municipal Water District (3707 S. Old Highway 395, Fallbrook, CA 92028).

**WATER NOTES AND REQUIREMENTS**

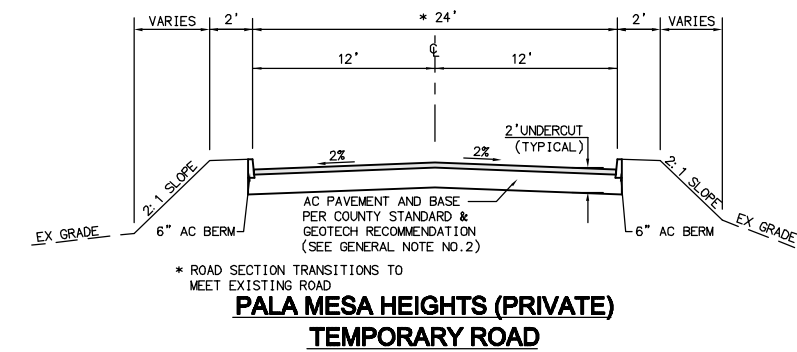
- CONTRACTOR SHALL FURNISH AND INSTALL ALL FACILITIES IN ACCORDANCE WITH THE DISTRICT'S STANDARD SPECIFICATIONS AND STANDARD DRAWINGS FOR WATER AND SANITARY SEWER FACILITIES (LATEST REVISION). THE SPECIFICATIONS AND STANDARD DRAWINGS ARE AVAILABLE FROM THE DISTRICT. CONTRACTOR SHALL BE IN POSSESSION OF RAINBOW MWD STANDARDS MANUAL ON THE JOB SITE AT ALL TIMES. ANY CONSTRUCTION OR MATERIAL NOT COVERED IN RAINBOW MUNICIPAL WATER DISTRICT STANDARDS SHALL BE APPROVED BY THE DISTRICT.
- ALL PERMITS REQUIRED BY LAW SHALL BE ACQUIRED BY THE APPLICANT OR THEIR CONTRACTOR.
- CONTRACTOR SHALL CONFORM TO ALL CAL-OSHA SAFETY REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION REQUESTING A SYSTEM SHUTDOWN FOR CONNECTIONS TO EXISTING SYSTEM. SAID NOTIFICATION SHALL BE MADE A MINIMUM OF THREE WEEKS PRIOR TO SAID SHUTDOWN TO THE DISTRICT.
- CONTRACTOR SHALL DESIGNATE A QUALIFIED SUPERINTENDENT WITH FULL AUTHORITY TO ACT ON BEHALF OF THE CONTRACTOR. SAID SUPERINTENDENT SHALL BE ON THE JOB SITE AT ALL TIMES.
- CONTRACTOR SHALL PERFORM ALL ENDOACHMENT PERMIT WORK UNDER SAN DIEGO COUNTY DEPARTMENT OF PUBLIC WORKS IN ACCORDANCE WITH ALL REQUIREMENTS OF SAID REMOVAL, TEMPORARY PAVEMENT PLACEMENT, PERMANENT PAVEMENT PLACEMENT (INCLUDING BASE MATERIAL) AND TEMPORARY AND PERMANENT TRAFFIC STRIPING.
- THE WATER LINE SHALL BE INSTALLED BY A PRIVATE CONTRACTOR IN ACCORDANCE WITH RAINBOW MWD STANDARDS MANUAL. THE CONTRACTOR SHALL BE APPROVED BY RAINBOW MWD.
- MINIMUM COVER OVER THE WATER MAIN SHALL BE 42 INCHES FOR PIPES 12" DIA. AND LESS AND 48 INCHES FOR PIPES LARGER THAN 12" DIA., UNLESS PRIOR APPROVAL IS OBTAINED FROM THE DISTRICT ENGINEER.
- WHEREVER A WATER LINE ENCOUNTERS A STORM DRAIN PIPE OR OTHER OBSTRUCTION, AND CROSSING OVER THE OBSTRUCTION WILL RESULT IN LESS THAN 30 INCHES OF COVER OVER THE WATER LINE, IT SHALL CROSS UNDER THE OBSTRUCTION (6 INCHES MINIMUM CLEARANCE).
- METER BOXES SHALL BE FIELD LOCATED TO CLEAR DRIVEWAYS AND LOCATED ACCURATELY ON THE AS-BUILT DRAWINGS. THE CONTRACTOR SHALL ADJUST METER BOXES TO SIDEWALK GRADE WHEN SIDEWALKS ARE POURED.
- ALL WATER MAINS AND FIRE HYDRANTS ARE DISTRICT OWNED AND MAINTAINED. THE DISTRICT MAINTAINS HOUSE SERVICES TO AND INCLUDING METERS.
- ALL OUTLETS SHALL BE REINFORCED IN ACCORDANCE WITH DISTRICT SPECIFICATIONS.
- CONTRACTOR TO ADJUST ALL VALVE COVERS, FIRE HYDRANTS, METER BOXES, ETC., TO GRADE AS DIRECTED BY THE DISTRICT.
- ALL NEW FIRE HYDRANTS TO BE CLOW 2050, OR APPROVED EQUIVALENT.
- LAYING DIRECTION OF WATER MAIN SHALL BE IN A GENERAL UPHILL DIRECTION.
- THE LOCATION OF AIR VALVES AND BLOW-OFFS TO BE VERIFIED BY THE DISTRICT INSPECTOR IN THE FIELD.
- ALL VALVES SHALL HAVE STANDARD VALVE BOXES AND CAST IRON COVERS.
- WATER METER SERVICE LATERALS FOR ALL TRACTS SHALL BE 30" (INCHES) BELOW FINISH GROUND LEVEL. SERVICE STOP SHALL TERMINATE 9" (INCHES) BELOW FINISH GROUND LEVEL WITH LOCATION STAMPED IN CURB. ALL OTHERS TO TERMINATE ABOVE GROUND.
- THE CONTRACTOR SHALL INSTALL SUITABLE THRUST BLOCKS AT SELECTED VERTICAL AND/OR HORIZONTAL CHANGE OF DIRECTION IN ACCORDANCE WITH RAINBOW MWD STANDARDS, WHETHER OR NOT SPECIFICALLY CALLED FOR OR SHOWN ON THE PLAN. CONTRACTOR TO FURNISH MATERIALS AND PERFORM EXCAVATION AND BACKFILL. CONTRACTOR TO MAKE CONNECTIONS TO EXISTING MAINS ONLY AFTER SUCCESSFUL PRESSURE TESTING AND DISINFECTION OF NEW FACILITIES AS AUTHORIZED BY DISTRICT ENGINEER.
- THE CONTRACTOR SHALL INSTALL AN ISOLATION KIT AT POINTS OF CONNECTION OF DISMILAR METALS.
- ALL MATERIALS, TESTING AND INSPECTION OF PIPE SHALL BE IN CONFORMITY WITH THE REQUIREMENTS OF RAINBOW MWD, AND THE AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS. COUNTY, AND/OR THE AWWA SPECIFICATIONS WILL BE CAUSE FOR REJECTION.
- ALL WELDED STEEL PIPE USED SHALL BE CEMENT MORTAR LINED AND COATED, 12 GAUGE (MINIMUM) WITH FULLY WELDED JOINTS AND HAND HOLES, UNLESS NOTED OTHERWISE.
- ALL STEEL BENDS AND FITTINGS SHALL BE CEMENT MORTAR LINED AND COATED AND SHALL BE SHOP FABRICATED PER AWWA C-208-(LATEST). CONTRACTOR SHALL SUBMIT FABRICATION DRAWINGS (FROM A DISTRICT APPROVED FABRICATOR) FOR ALL AWWA SHOP FABRICATED FITTINGS TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. SERVICE CONNECTIONS MADE TO EXISTING ACP, DIP, OR PVC PIPELINES SHALL UTILIZE A BRASS DOUBLE SERVICE STRAP CONNECTION.
- BUILDINGS LOCATED ON PADS WITH PRESSURE ABOVE 80 PSI WILL REQUIRE PRESSURE REGULATORS PER THE CPC. (TO BE DETERMINED AT PLAN CHECK).
- FOR HYDRO-STATIC TESTING PURPOSES, ALL WATER PIPES SHALL BE 50 PSI ABOVE THE CLASS RATING OF THE PIPE AT THE LOWEST POINT IN THE SECTION BEING TESTED, AND SHALL BE AT LEAST EQUAL TO THE DESIGN CLASS OF THE PIPE AT THE HIGHEST POINT IN THE LINE.
- THE MINIMUM REQUIREMENTS OF THE PIPELINE TRENCH SHALL BE PER RMD STD. NO. W-3.
- PIPELINES AND APPURTENANCES SHALL BE TESTED, DISINFECTED, AND DECHLORINATED PER RAINBOW MWD STANDARDS SECTION 15041, DEPARTMENT OF PUBLIC HEALTH, AND/OR ANY OTHER AGENCY HAVING JURISDICTION OVER THE WORK.
- CONTRACTOR SHALL UNCOVER LOCATIONS OF CONNECTIONS PRIOR TO STARTING INSTALLATIONS TO ENSURE CONFORMANCE WITH LINES AND GRADES SHOWN ON THESE PLANS. ANY DEVIATION FROM THE PLANS MUST BE APPROVED BY THE ENGINEER OF THE RAINBOW MUNICIPAL WATER DISTRICT PRIOR TO CONSTRUCTION.
- THE EXISTENCE AND LOCATION OF WATER FACILITIES AS SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE DISTRICT AND COUNTY RECORDS. TO THE BEST OF OUR KNOWLEDGE, THE EXISTING WATER FACILITIES ARE AS SHOWN ON THE PLANS. THE DISTRICT SHALL NOT BE HELD RESPONSIBLE FOR ANY ERROR IN THE LOCATION AND ELEVATION OF THE EXISTING WATER FACILITIES. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING FACILITY SHOWN HEREON AND ANY OTHER WHICH IS NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
- A MINIMUM OF \$500.00 DEPOSIT WILL BE REQUIRED FOR ALL TIE-INS THAT REQUIRE A SHUTDOWN.
- 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.
- ALL WATER USED ON A CONSTRUCTION PROJECT MUST BE PAID FOR AND WILL BE METERED. THIS INCLUDES WATER FOR LOADING OF NEW WATERLINES, FLUSHING OF LINES, PRESSURE TESTING, ETC. CITATIONS WILL BE ISSUED TO PARTIES TAKING WATER FROM UNMETERED FACILITIES. A CONSTRUCTION WATER METER PERMIT MAY BE OBTAINED FROM THE DISTRICT.
- SECTIONS OF THE WATER LINE THAT ARE REFERENCED TO THIS NOTE SHALL BE ENTIRELY SHOP FABRICATED (I.E., NO FIELD WELDING WILL BE ALLOWED).
- PROPOSED WATER SYSTEM IMPROVEMENTS ARE LOCATED WITHIN THE CANONOTA PRESSURE ZONE (HML = 1019 FT. / FL = 980 FT.).



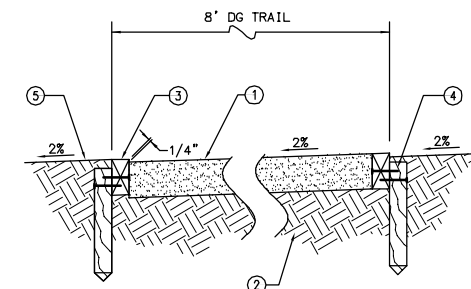
**PALA ROAD (CALTRANS SR-76)**  
AT HORSE RANCH CREEK ROAD  
(BY OTHERS)



**EXISTING PANKEY ROAD (PUBLIC)**  
SOUTH OF STEWART CANYON RD.

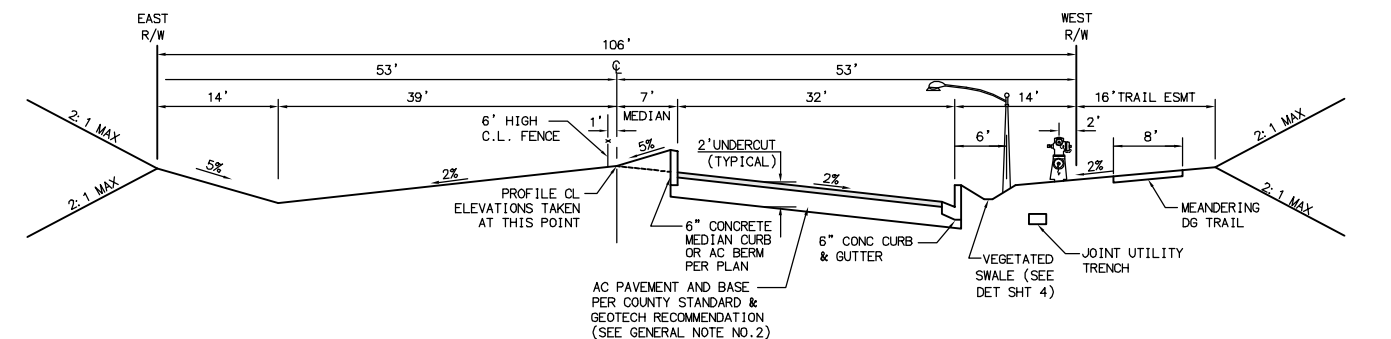
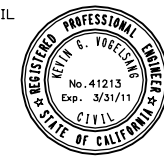


**PALA MESA HEIGHTS (PRIVATE)**  
**TEMPORARY ROAD**



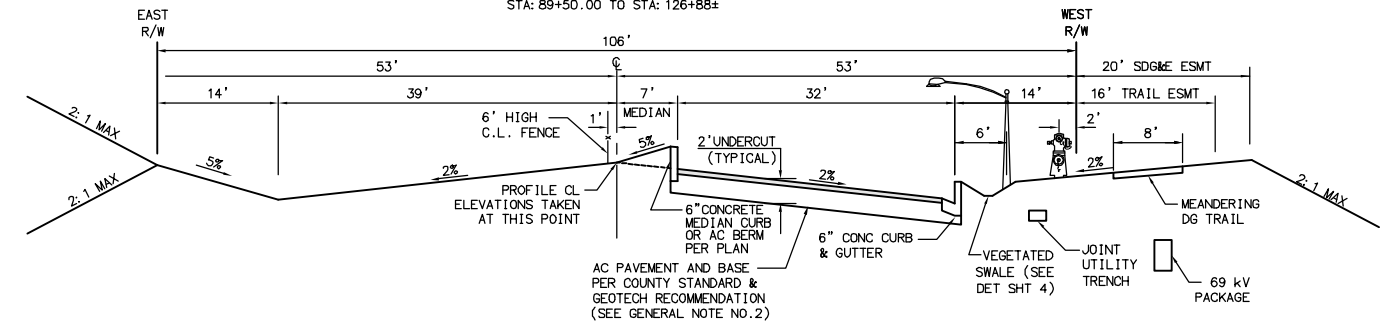
**DETAIL: DG TRAIL**  
NOT TO SCALE

- 4" THICK LAYER OF STABILIZED DECOMPOSED GRANITE (DG)
- 90% COMPACTED SUBGRADE
- 2x4 REDWOOD HEADER SET 1/4" ABOVE ADJACENT FINISH GRADE
- 2x4 REDWOOD STAKE 18" LONG @ 4' O.C. (NAIL TO HEADER WITH ONE NAIL ON EACH SIDE)
- FINISH GRADE



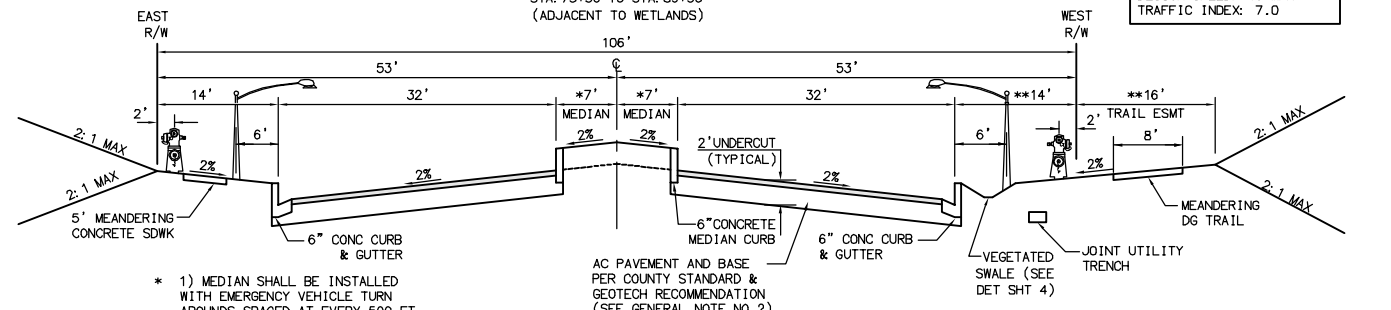
**HORSE RANCH CREEK ROAD**  
**INTERIM PUBLIC ROAD SECTION**

STA: 36+15.27 TO STA: 75+50.00  
STA: 89+50.00 TO STA: 126+88±



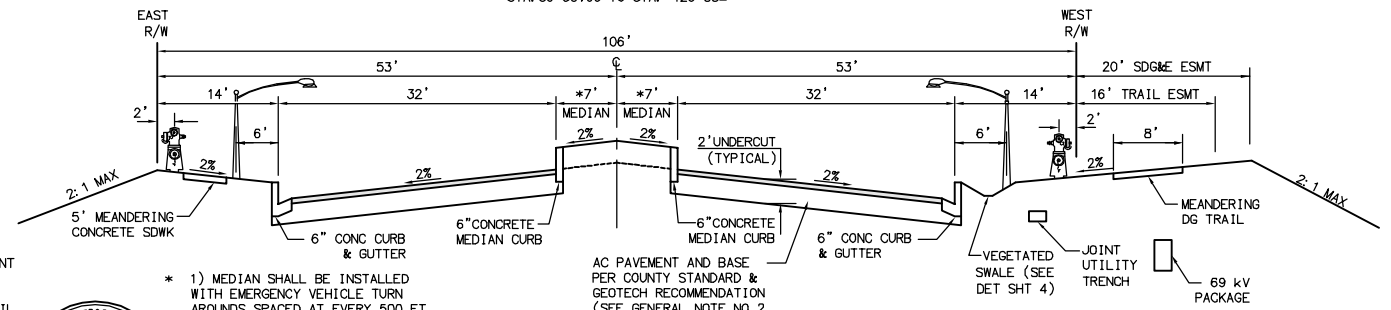
**HORSE RANCH CREEK ROAD**  
**INTERIM PUBLIC ROAD SECTION**

STA: 75+50 TO STA: 89+50  
(ADJACENT TO WETLANDS)



**HORSE RANCH CREEK ROAD**  
**ULTIMATE PUBLIC ROAD SECTION**

STA: 36+15.27 TO STA: 75+50.00  
STA: 89+50.00 TO STA: 126+88±



**HORSE RANCH CREEK ROAD**  
**ULTIMATE PUBLIC ROAD SECTION**

STA: 75+50 TO STA: 89+50  
(ADJACENT TO WETLANDS)

**ROAD DATA**  
CLASSIFICATION: BOULEVARD  
DESIGN SPEED: 40 MPH  
TRAFFIC INDEX: 7.0

**COUNTY APPROVED CHANGES**

No.	Description	Approved By	Date

**PERMITS**  
SPECIFIC PLAN NO. JY 4718\_GPA-09-006  
NOTICE OF INTENT NO. WDID# 9\_37C358873  
JY 4718\_SCH#2007011136

**BENCH MARK**  
DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
LOCATION: SW 15/76  
RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
ELEVATION: 306.49 DATUM: JUS&GS DATUM OF 1929

**PRIVATE CONTRACT**

SHEET **2** COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS **40** SHEETS

PLANS FOR THE IMPROVEMENT OF:  
**HORSE RANCH CREEK ROAD**  
NOTES

CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)

RECOMMENDED FOR APPROVAL: \_\_\_\_\_ APPROVED FOR: MOHAMAD FAKHRUDDINE  
BY: \_\_\_\_\_ COUNTY ENGINEER

Engineer of work: EXP. 3/31/11 CHECKED BY: \_\_\_\_\_ IMPROVEMENT PLAN No. **CG-4718**  
KEVIN VOGELSANG RCE 41213 APPROVAL DATE: \_\_\_\_\_

**FIRE AGENCY**  
NORTH COUNTY FIRE PROTECTION DISTRICT

APPROVED BY: \_\_\_\_\_  
DATE: \_\_\_\_\_

**Rainbow**  
3707 S. Old Highway 395 Fallbrook, CA 92028  
Water & Sewer Agency

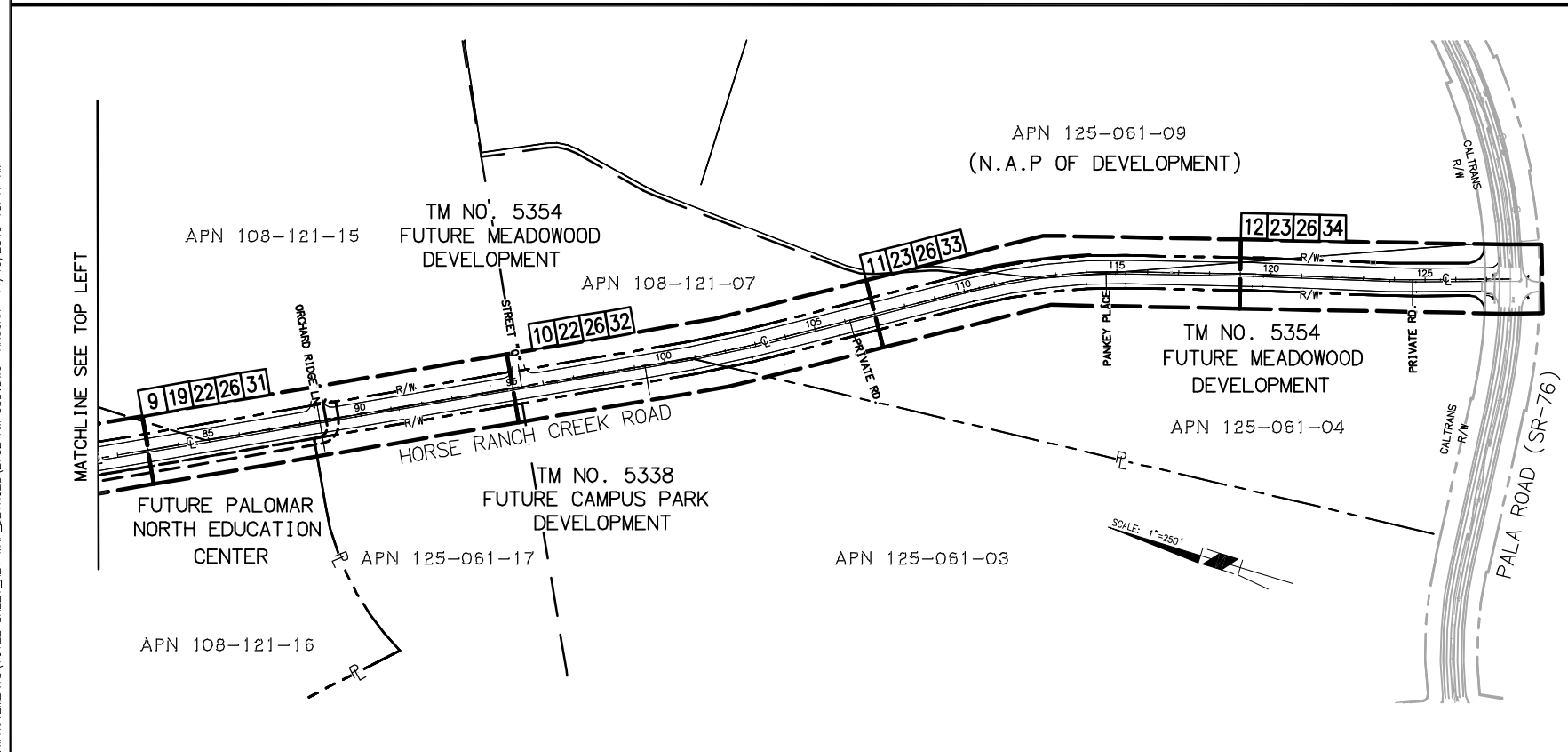
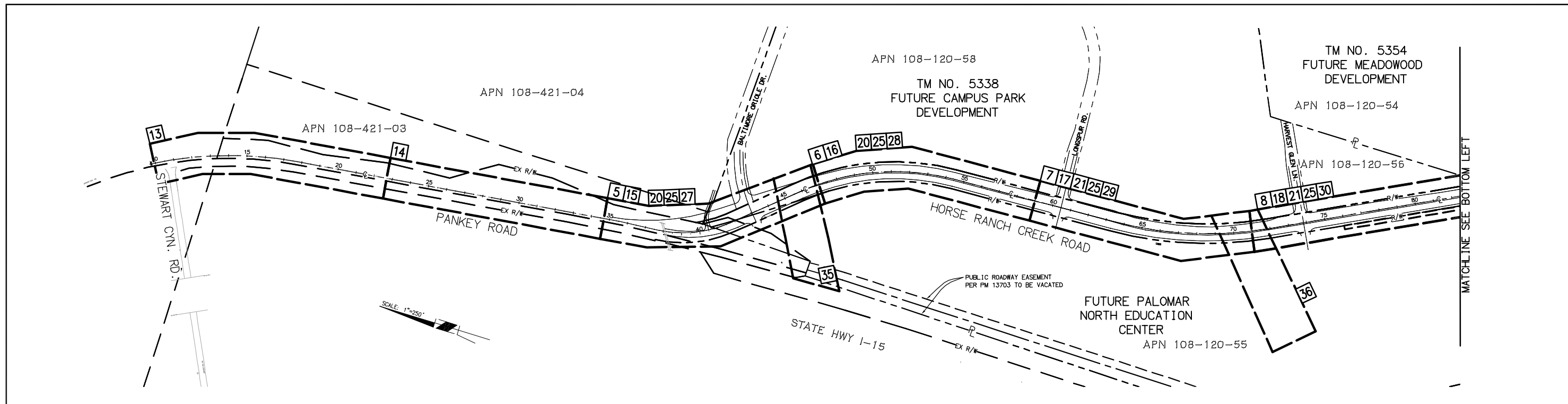
Date \_\_\_\_\_ Reviewed: District Engineer

H:\PDATA\25102702\CADD\LAND\DLV\STREET IMPROVEMENTS\TITLE SHEET\_MAP\_DETAILS\2702-DT-002.DWG AROCHA 10/25/2010 1:34 PM

IMPROVEMENT PLANS

RFB CONSULTING, INC.  
ENGINEER: KEVIN VOGELSANG  
TELEPHONE: (656) 614-5000

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**ABBREVIATIONS**

AC	ASPHALT CONCRETE	IE	INVERT ELEVATION
AB	AGGREGATE BASE	No.	NUMBER
ASSY	ASSEMBLY	P.O.C.	POINT OF CONNECTION
ARV	AIR VACUUM RELEASE	PCC	POINT OF COMPOUND CURVATURE
BC	BEGIN CURVE	PCR	POINT OF CURB RETURN
BO	BLOWOFF	PCVC	POINT OF COMPOUND OF VERTICAL CURVE
BP	BOTTOM OF PIPE	PRS	PRESSURE REGULATING STATION
BVC	BEGIN VERTICAL CURVE	PRV	PRESSURE REDUCING VALVE
C	CUT	PVC	POLYVINYL CHLORIDE
CB	CATCH BASIN	PVI	POINT OF VERTICAL INTERSECTION
CI	CURB INLET	RET	RETAINING WALL
CG	CENTERGRADE	RWMD	RAINBOW MUNICIPAL WATER DISTRICT
CO	CURB OUTLET	RSD	REGIONAL STANDARD DRAWING
C	CENTER LINE	R/W	RIGHT OF WAY
CONC	CONCRETE	SD	STORM DRAIN
COND	CONDITION	SDCO	STORM DRAIN CLEANOUT
DG	DECOMPOSED GRANITE	SDG&E	SAN DIEGO GAS & ELECTRIC
DIP	DUCTILE IRON PIPE	SHT	SHEET
EL	ELEVATION	SMH	SEWER MANHOLE
EC	END CURVE	SNS	STREET NAME SIGN
ESMT	EASEMENT	STA	STATION
EVC	END VERTICAL CURVE	TB	TOP OF BOX
EX/EXIST	EXISTING	TC	TOP OF CURB
F	FILL	TEMP	TEMPORARY
FF	FINISH FLOOR	TF	TOP OF FOOTING
FG	FINISH GRADE	TG	TOP OF GRATE
FH	FIRE HYDRANT	THK	THICK
F	FLOW LINE	TP	TOP OF PIPE
FS	FINISH SURFACE	TW	TOP OF WALL
GB	GRADE BREAK	TYP	TYPICAL
HDWL	HEADWALL	W/	WITH
HP	HIGH POINT	W.S.	WATER SURFACE
H.P.G.V.	HIGH PRESSURE GATE VALVE		

**SHEET INDEX**

1	TITLE SHEET
2	NOTES AND STREET SECTIONS
3	INDEX MAP
4	DETAILS
5-12	STREET IMPROVEMENTS
13-19	WATER PLANS
20-23	SIGNAGE AND STRIPING
24-26	EROSION CONTROL PLANS
27-39	STORM DRAIN PLANS
40	WATERLINE DETAILS

STORMWATER TREATMENT CONTROL & LID BMP'S			
DESCRIPTION / TYPE	SHEET	MAINTENANCE CATEGORY	REVISIONS
VEGETATED SWALES (HORSE RANCH CREEK RD)	5-12	1	
CATCH BASIN INSERT (HORSE RANCH CREEK RD)	5-12	4	

BMP'S APPROVED AS PART OF STORMWATER MANAGEMENT PLAN (SWMP) DATED 09/10 ON FILE WITH DPW. ANY CHANGES TO THE ABOVE BMP'S WILL REQUIRE SWMP REVISION AND PLAN CHANGE APPROVAL.

**KEY MAP**  
SCALE: 1"=250'



**RAINBOW**  
Municipal Water District  
3707 S. Old Highway 395 Fallbrook, CA 92028  
Water & Sewer Agency

Approved Changes			
No.	Description	Approved By	Date

**COUNTY APPROVED CHANGES**

No.	DESCRIPTION	APPROVED BY	DATE

**PERMITS**

SPECIFIC PLAN NO. UY 4718\_GPA-09-006  
 NOTICE OF INTENT NO. WDID# 9 37C358873  
UY 4718\_SCH#2007011136

**BENCH MARK**

DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
 LOCATION: SW 15/76  
 RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
 ELEVATION: 306.49 DATUM: JUSC&GS DATUM OF 1929

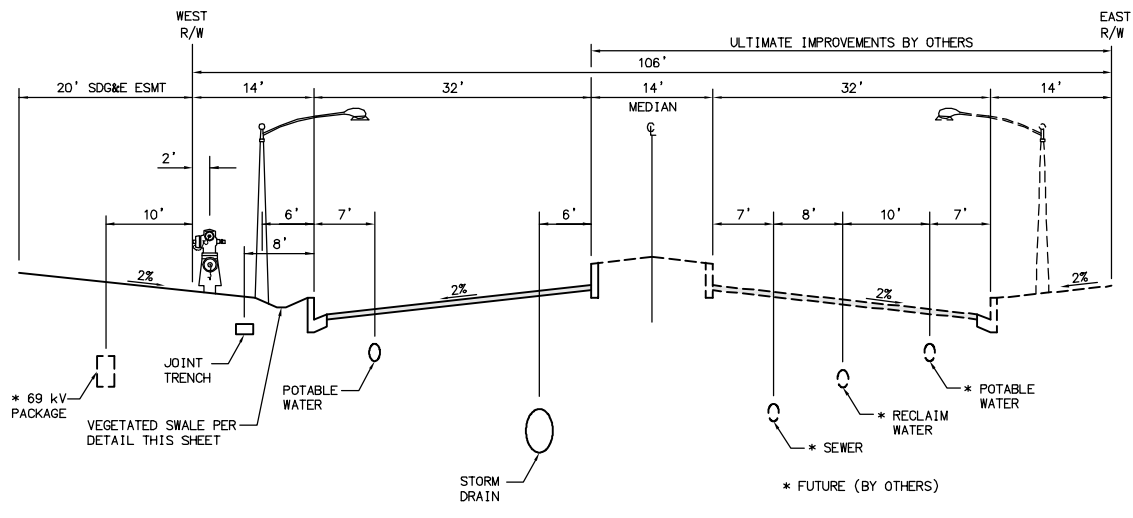
**PRIVATE CONTRACT**

SHEET <b>3</b>	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	<b>40</b> SHEETS
PLANS FOR THE IMPROVEMENT OF: <b>HORSE RANCH CREEK ROAD</b> KEY MAP & INDEX		
CALIFORNIA COORDINATE INDEX: <u>2075-6285 (CC83)</u> <u>435-1783 (CC27)</u>		
RECOMMENDED FOR APPROVAL:	APPROVED FOR: <u>MOHAMAD FAKHRILODINE</u> COUNTY ENGINEER	BY:
Engineer of work: <u>EXP. 3/31/11</u>	CHECKED BY:	IMPROVEMENT PLAN No. <b>CG-4718</b>
<u>KEVIN VOGELSANG</u> RCE 41213	APPROVAL DATE:	

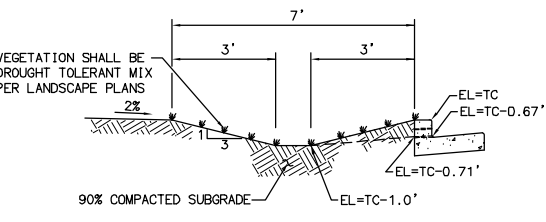
IMPROVEMENT PLANS

RBF CONSULTING, INC.  
ENGINEER: (656) 614-5000  
TELEPHONE:

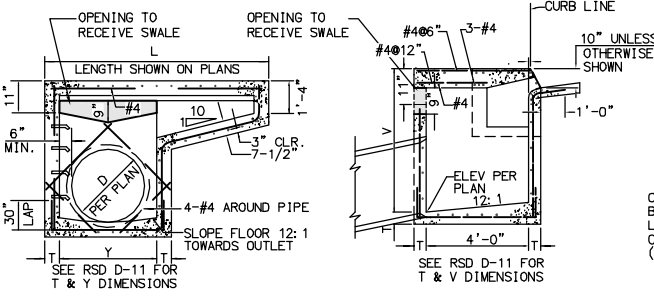
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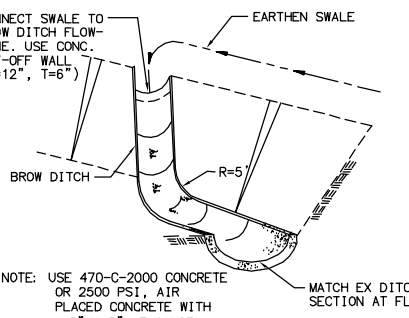
**TYPICAL UTILITY SECTION**  
N.T.S.



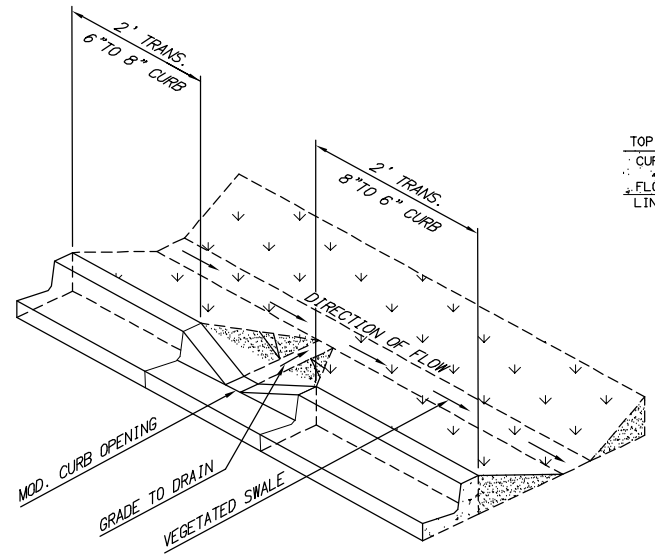
**VEGETATED SWALE** 1/4



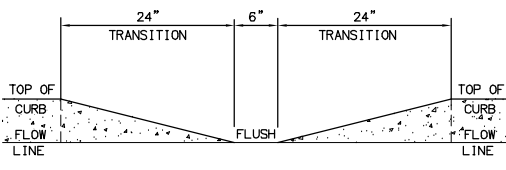
**MODIFIED CURB INLET W/ SWALE OPENING** 4/4  
N.T.S.



**SWALE-TO-BROW DITCH CONNECTION** 5/4  
N.T.S.

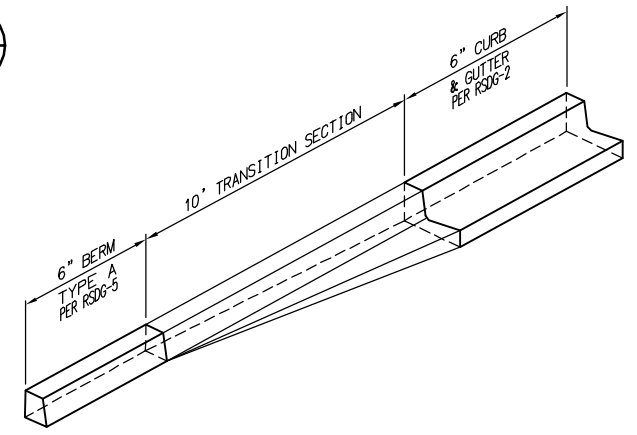


**OUTLET TO VEGETATED SWALE TRANSITION**  
N.T.S.

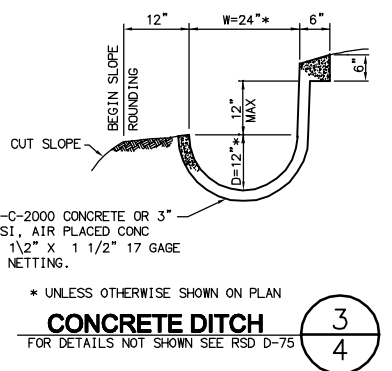


**MODIFIED CURB OPENING** 2/4  
N.T.S.

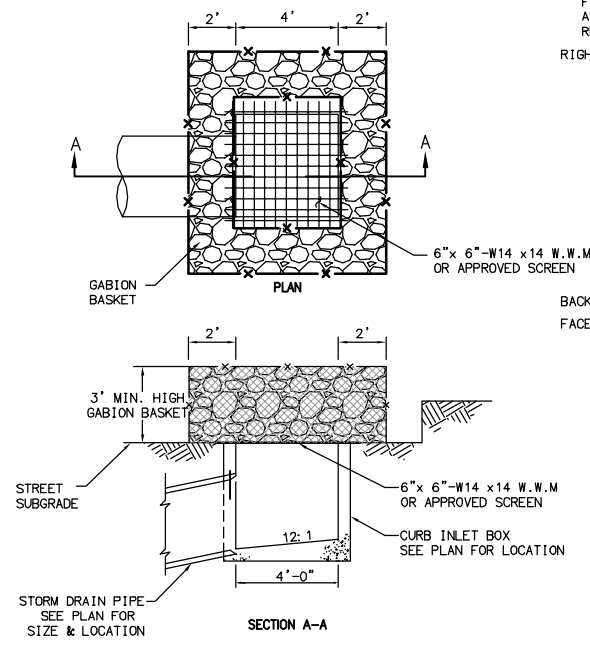
SWALE No.	NUMBER OF CURB OPENINGS	STATION LOCATION
1	2	44+00 TO 46+00
2	2	46+00 TO 47+75
3	7	47+75 TO 56+00
4	3	56+00 TO 59+80
5	5	61+50 TO 70+50
6	4	70+50 TO 73+00
7	3	77+00 TO 81+00
8	4	81+50 TO 87+50
9	6	89+50 TO 93+75
10	4	93+75 TO 97+50
11	3	97+50 TO 105+00
12	7	105+00 TO 110+50
13	5	110+50 TO 114+00
14	3	115+50 TO 119+50
15	3	119+50 TO 124+00
16	4	124+00 TO 127+00



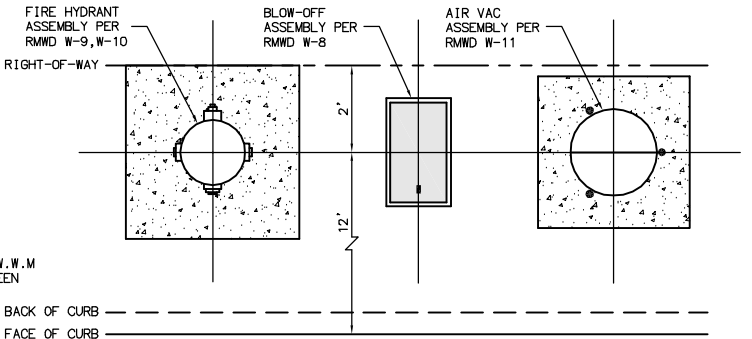
**6" CURB AND GUTTER TO BERM TRANSITION**  
N.T.S.



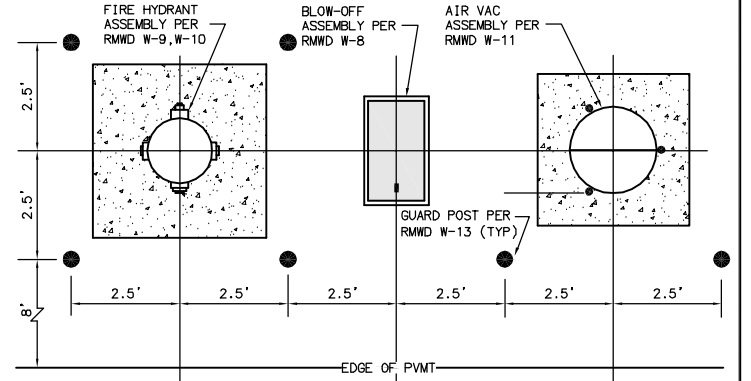
**CONCRETE DITCH** 3/4  
FOR DETAILS NOT SHOWN SEE RSD D-75



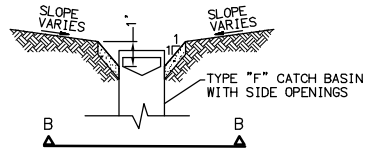
**TEMPORARY DRAINAGE INLET**  
N.T.S.



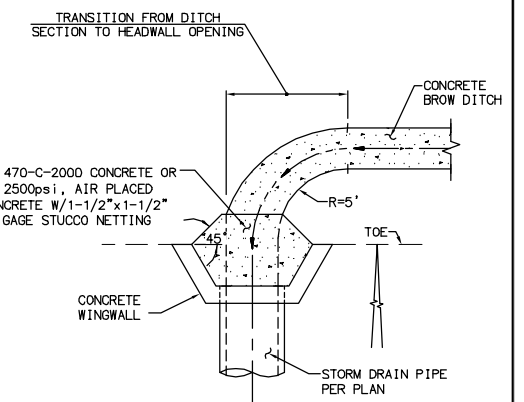
**TYPICAL WATER APPURTENANCE LOCATION (WITH CURB)**



**TYPICAL WATER APPURTENANCE LOCATION (WITHOUT CURB)**



**DITCH TO CATCH BASIN**  
N.T.S.



**DITCH TO HEADWALL DETAIL**  
N.T.S.



**FIRE AGENCY**  
NORTH COUNTY FIRE PROTECTION DISTRICT  
APPROVED BY: \_\_\_\_\_  
DATE: \_\_\_\_\_

**Rainbow**  
3707 S. Old Highway 395 Fallbrook, CA 92028  
Water & Sewer Agency  
Reviewed: District Engineer

Approved Changes				COUNTY APPROVED CHANGES			
No.	Description	Approved By	Date	No.	DESCRIPTION	APPROVED BY	DATE

**PERMITS**  
SPECIFIC PLAN NO. UY 4718\_GPA-09-006  
NOTICE OF INTENT NO. WDD# 9\_37C358873  
UY 4718\_SCH#2007011136

**BENCH MARK**  
DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
LOCATION: SW 15/76  
RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
ELEVATION: 306.49 DATUM: USC&GS DATUM OF 1929

**PRIVATE CONTRACT**

SHEET 4 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS 40 SHEETS

PLANS FOR THE IMPROVEMENT OF:  
**HORSE RANCH CREEK ROAD**  
DETAILS

CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)

RECOMMENDED FOR APPROVAL: \_\_\_\_\_  
APPROVED FOR: MOHAMAD FAKHRIYODINE COUNTY ENGINEER  
BY: \_\_\_\_\_

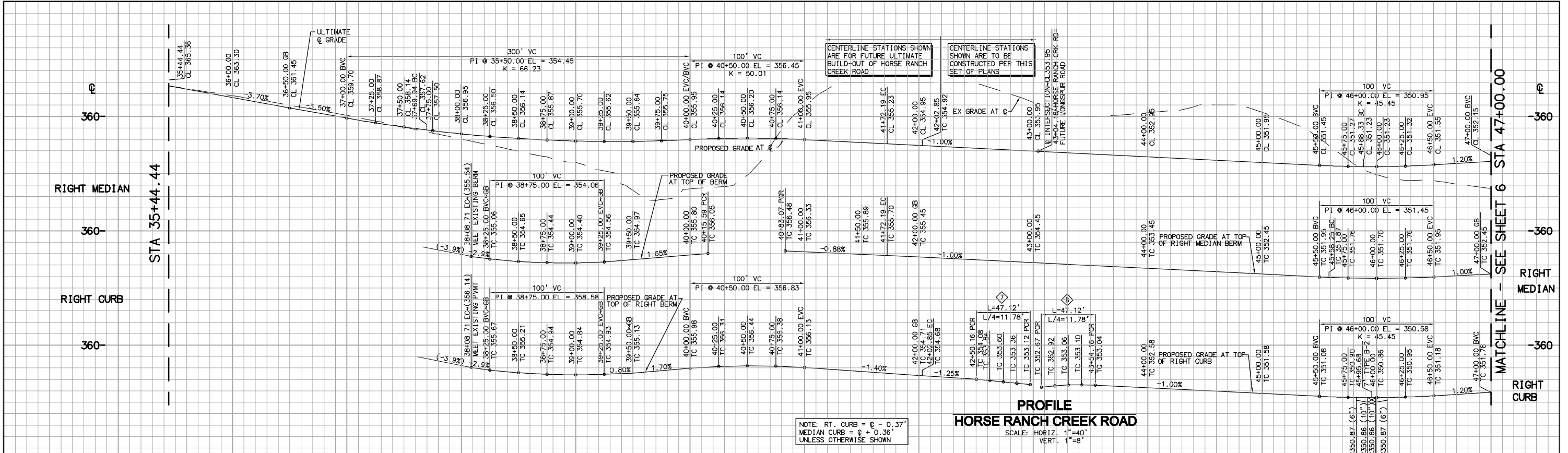
Engineer of work: EXP. 3/31/11  
KEVIN VOGELSANG RCE 41213  
CHECKED BY: \_\_\_\_\_  
APPROVAL DATE: \_\_\_\_\_  
IMPROVEMENT PLAN No. CG-4718

IMPROVEMENT PLANS

RBF CONSULTING, INC.  
ENGINEER: KEVIN VOGELSANG  
TELEPHONE: (658) 614-5000



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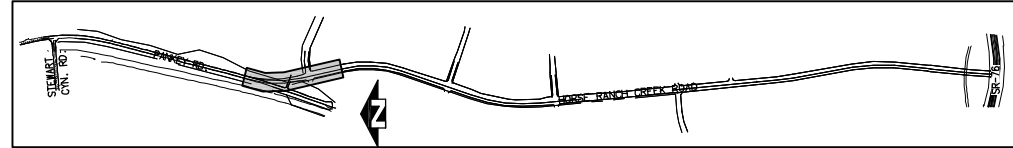


**PROFILE**  
HORSE RANCH CREEK ROAD  
SCALE: HORIZ. 1"=40'  
VERT. 1"=8'

NOTE: RT. CURB =  $e - 0.37'$   
MEDIAN CURB =  $e + 0.36'$   
UNLESS OTHERWISE SHOWN

NO	BEARING/DELTA	RADIUS	LENGTH	TANGENT
1	02°05'03"	500.00'	18.19'	9.09'
2	S 04°16'52" E	---	207.31'	---
3	S 36°52'34" E	625.00'	402.26'	208.37'
4	S 41°09'26" E	---	416.14'	---
5	05°04'41"	1260.00'	111.67'	55.87'
6	N60°02'40" E	---	44.94'	---
7	34°15'34"	100.00'	59.79'	30.82'
8	N85°41'46" W	---	66.37'	---
9	05°39'30"	500.00'	49.38'	24.71'
10	N88°38'44" E	---	4.52'	---

\* INCLUDES RIGHT TO BUILD, EXTEND, AND MAINTAIN DRAINAGE STRUCTURES AND SLOPES WITH ACCESS BEYOND RIGHT-OF-WAY FOR CONSTRUCTION AND MAINTENANCE OF COUNTY ROAD.

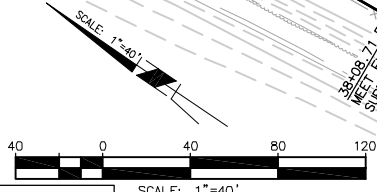


**KEY MAP**  
N.T.S.

NOTE:  
FOR STORM DRAIN IMPROVEMENTS  
SEE SHEETS 27-39.  
FOR WATERLINE IMPROVEMENTS  
SEE SHEETS 13-19.

**CONSTRUCTION NOTES:**

- 1 CONSTRUCT TYPE "A" CURB RAMP PER COUNTY STD. DS-21 (A-F)
- 2 CONSTRUCT AC OVER AB (SEE GENERAL NOTE 2)
- 3 CONSTRUCT 6" AC DIKE TYPE "A" PER SORSO G-5
- 4 CONSTRUCT 6" CURB & GUTTER TYPE "6" PER SORSO G-2
- 5 CONSTRUCT 6" MEDIAN CURB PER SORSO G-6 (B-1)
- 6 CONSTRUCT 8" WIDE STABILIZED DG TRAIL
- 7 EXISTING OVERHEAD ELECTRICAL TO BE REMOVED
- 8 EXISTING 6'x9' BOX CULVERT TO REMAIN
- 9 REMOVE EXISTING TREE
- 10 CONSTRUCT STREET LIGHT WITH 100 WATT HIGH PRESSURE SODIUM LAMP
- 11 CONSTRUCT 6" HIGH CHAIN LINK FENCE PER SORSO M-20
- 12 CONSTRUCT 12" WIDE CHAIN LINK GATE PER SORSO M-20



NO	BEARING/DELTA	RADIUS	LENGTH	TANGENT	NOTE
1	19°13'07"	609.00'	204.28'	103.11'	6" AC BERM
2	96°29'14"	20.00'	33.68'	22.40'	6" AC BERM
3	N 60°02'40" E	---	18.53'	---	6" AC BERM
4	34°15'34"	111.00'	66.37'	34.21'	6" AC BERM
5	N 85°41'46" W	---	69.62'	---	6" AC BERM
6	05°39'30"	490.00'	48.39'	24.22'	6" AC BERM
7	N 88°38'44" E	---	4.52'	---	6" AC BERM
8	N 88°38'44" E	---	4.52'	---	6" AC BERM
9	05°39'30"	510.00'	50.37'	25.20'	6" AC BERM
10	N 85°41'46" W	---	63.13'	---	6" AC BERM
11	34°15'34"	89.00'	53.22'	27.43'	6" AC BERM
12	N 60°02'40" E	---	27.34'	---	6" AC BERM
13	93°01'55"	20.00'	32.47'	21.09'	6" AC BERM

NO	BEARING/DELTA	RADIUS	LENGTH	TANGENT	NOTE
14	08°10'11"	625.00'	89.12'	44.63'	6" AC BERM
15	N 41°09'26" W	---	386.06'	---	6" AC BERM
16	07°32'03"	1076.00'	141.49'	70.85'	6" AC BERM
17	05°01'09"	1221.00'	106.96'	53.51'	6" CURB & GUTTER
18	N 41°09'26" W	---	230.17'	---	6" CURB & GUTTER
19	90°00'00"	30.00'	47.12'	30.00'	6" CURB & GUTTER
20	90°00'00"	30.00'	47.12'	30.00'	6" CURB & GUTTER
21	N 41°09'26" W	---	47.31'	---	6" AC BERM
22	36°54'27"	641.00'	412.90'	213.90'	6" AC BERM

**PLAN**  
HORSE RANCH CREEK ROAD



NO.	DESCRIPTION	APPROVED BY	DATE

**PERMITS**  
SPECIFIC PLAN NO. UY 4718\_GPA-09-006  
NOTICE OF INTENT NO. WJD# 9\_37C358873  
UY 4718\_SCH#2007011336

**BENCH MARK**  
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LOCATION: SW 15/76

RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
ELEVATION: 306.49 DATUM: USC&GS DATUM OF 1929

**PRIVATE CONTRACT**

SHEET 5 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS SHEETS 40

PLANS FOR THE IMPROVEMENT OF:  
**HORSE RANCH CREEK ROAD**  
STREET PLAN

CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)

RECOMMENDED FOR APPROVAL: APPROVED FOR: MOHAMAD FAHRIRODDINE COUNTY ENGINEER

BY: KEVIN VOGELSSANG RCE 41213

Engineer of work: EXP. 3/31/11  
KEVIN VOGELSSANG RCE 41213

CHECKED BY: APPROVAL DATE: IMPROVEMENT PLAN NO. CG-4718

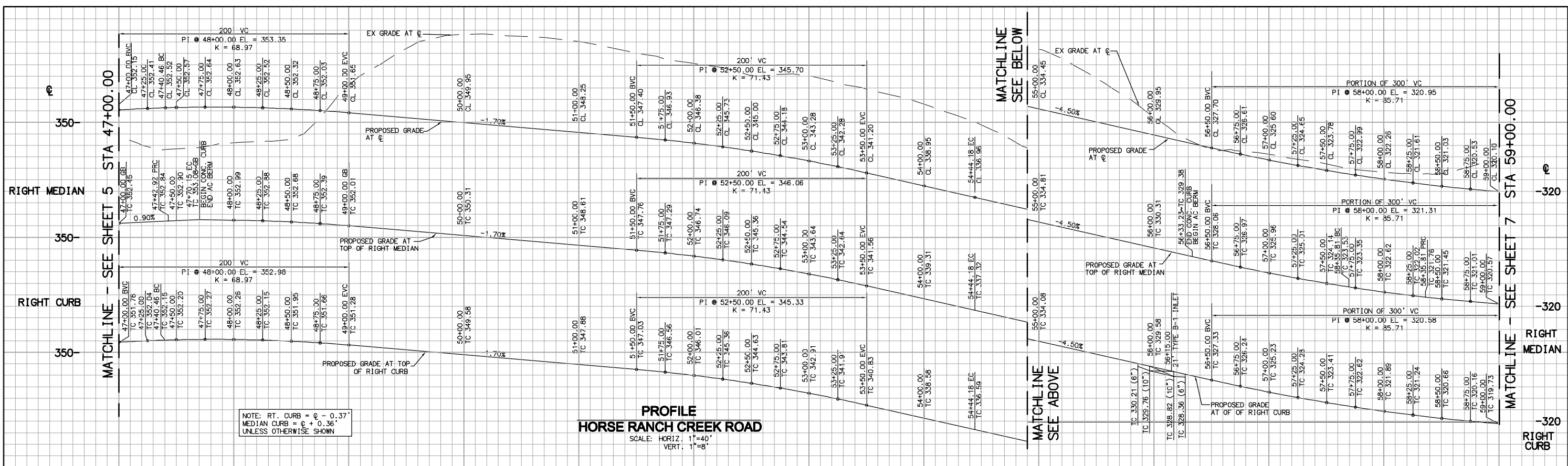
IMPROVEMENT PLANS

STA 35+44.44

MATCHLINE - SEE SHEET 6 STA 47+00.00

MATCHLINE - SEE SHEET 6 STA 47+00.00

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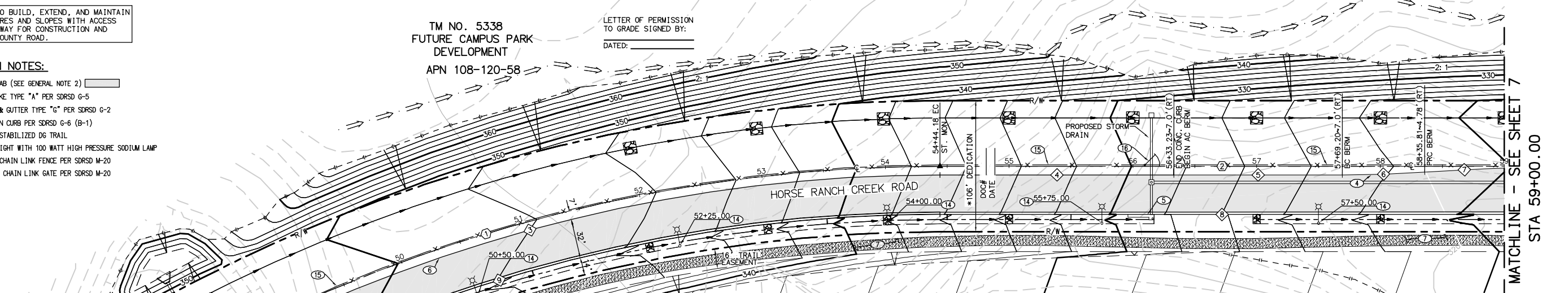
47+00 48+00 48+00 50+00 51+00 52+00 53+00 54+00 55+00 56+00 57+00 58+00 59+00

\* INCLUDES RIGHT TO BUILD, EXTEND, AND MAINTAIN DRAINAGE STRUCTURES AND SLOPES WITH ACCESS BEYOND RIGHT-OF-WAY FOR CONSTRUCTION AND MAINTENANCE OF COUNTY ROAD.

TM NO. 5338  
FUTURE CAMPUS PARK DEVELOPMENT  
APN 108-120-58

LETTER OF PERMISSION TO GRADE SIGNED BY: \_\_\_\_\_  
DATED: \_\_\_\_\_

- CONSTRUCTION NOTES:**
- 3 CONSTRUCT AC OVER AB (SEE GENERAL NOTE 2)
  - 4 CONSTRUCT 6" AC DIKE TYPE "A" PER SDRSD G-5
  - 5 CONSTRUCT 6" CURB & GUTTER TYPE "G" PER SDRSD G-2
  - 6 CONSTRUCT 6" MEDIAN CURB PER SDRSD G-6 (B-1)
  - 7 CONSTRUCT 8" WIDE STABILIZED DG TRAIL
  - 14 CONSTRUCT STREET LIGHT WITH 100 WATT HIGH PRESSURE SODIUM LAMP
  - 15 CONSTRUCT 6" HIGH CHAIN LINK FENCE PER SDRSD M-20
  - 16 CONSTRUCT 12' WIDE CHAIN LINK GATE PER SDRSD M-20



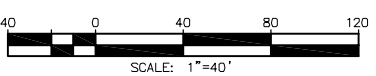
**CENTERLINE DATA TABLE**

NO	BEARING/DELTA	RADIUS	LENGTH	TANGENT
1	33° 50' 25" E	1260.00'	744.19'	383.30'
2	S 02° 14' 20" E	--	455.82'	--

**CURB DATA TABLE**

NO	BEARING/DELTA	RADIUS	LENGTH	TANGENT	NOTE
1	02° 17' 09"	1076.00'	42.93'	21.47'	6" AC BERM
2	01° 33' 07"	1000.00'	27.09'	13.54'	6" AC BERM
3	30° 39' 01"	1253.00'	670.29'	343.37'	6" MEDIAN CURB
4	N 02° 14' 20" W	--	189.06'	--	6" MEDIAN CURB
5	N 02° 14' 20" W	--	135.96'	--	6" AC BERM
6	03° 49' 10"	1000.00'	66.66'	33.34'	6" AC BERM
7	01° 42' 42"	2152.00'	64.29'	32.15'	6" AC BERM
8	N 02° 14' 20" W	--	455.82'	--	6" CURB & GUTTER
9	33° 53' 57"	1221.00'	722.41'	372.12'	6" CURB & GUTTER

NOTE:  
FOR STORM DRAIN IMPROVEMENTS SEE SHEETS 27-39.  
FOR WATERLINE IMPROVEMENTS SEE SHEETS 13-19.



**COUNTY APPROVED CHANGES**

NO.	DESCRIPTION	APPROVED BY	DATE

**PERMITS**  
SPECIFIC PLAN NO. UY 4718\_GPA-09-006  
NOTICE OF INTENT NO. WJID# 9\_37C358873  
UY 4718\_SCH#2007011136

**BENCH MARK**  
DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
LOCATION: SW 15/76

RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
ELEVATION: 306.49 DATUM: USC&GS DATUM OF 1929

**PRIVATE CONTRACT**

SHEET 6 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS SHEETS 40

PLANS FOR THE IMPROVEMENT OF:  
**HORSE RANCH CREEK ROAD STREET PLAN**

CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)

RECOMMENDED FOR APPROVAL: \_\_\_\_\_ APPROVED FOR: MOHAMAD FAHRIRODDINE COUNTY ENGINEER

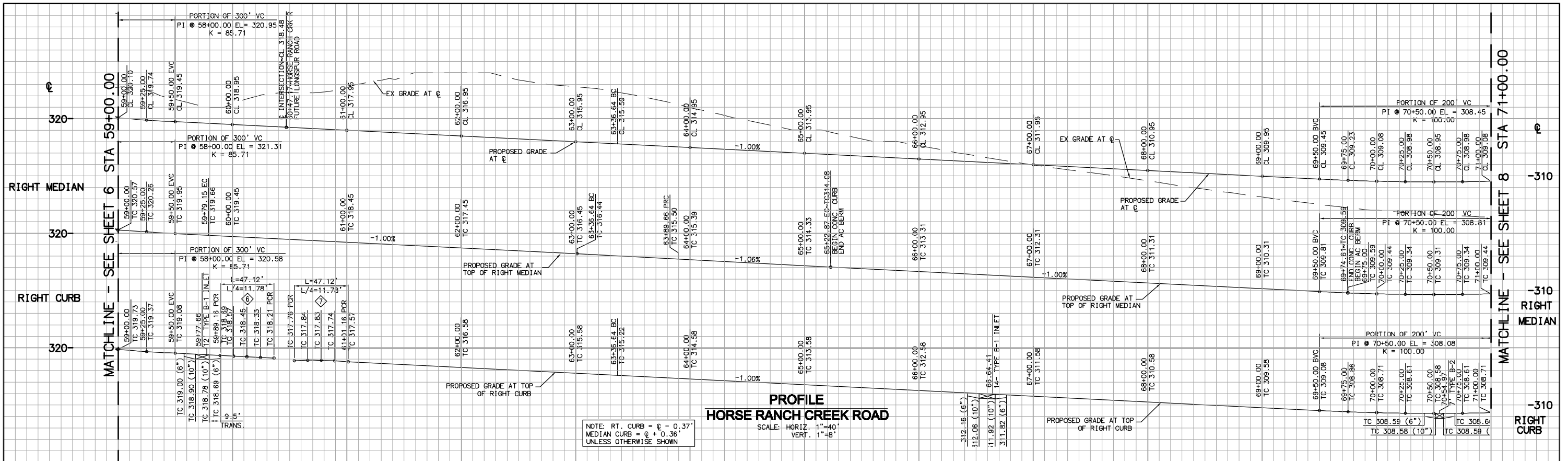
BY: \_\_\_\_\_

Engineer of work: EXP. 3/31/11 KEVIN VOGELSSANG RCE 41213

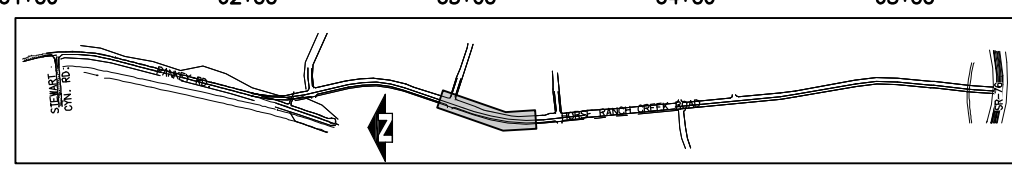
CHECKED BY: \_\_\_\_\_ IMPROVEMENT PLAN NO. CG-4718

APPROVAL DATE: \_\_\_\_\_

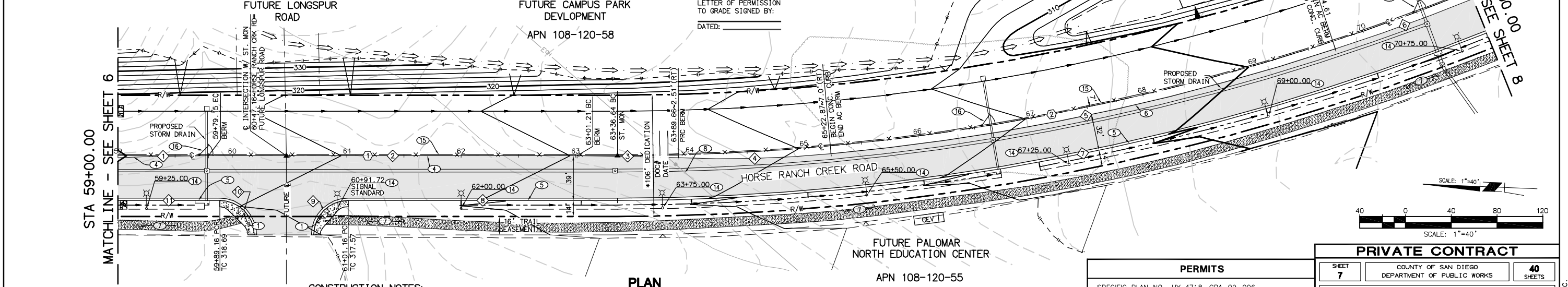
IMPROVEMENT PLANS



NO	BEARING/DELTA	RADIUS	LENGTH	TANGENT	NOTE
1	02°06'28" W	2152.00'	79.17'	39.59'	6" AC BERM
2	N 02°14'20" W	--	322.06'	--	6" AC BERM
3	02°20'15" W	2170.00'	88.53'	44.27'	6" AC BERM
4	07°39'33" W	1000.00'	133.68'	66.94'	6" AC BERM
5	12°50'37" W	2012.00'	451.02'	226.46'	6" MEDIAN CURB
6	03°38'56" W	2012.00'	128.13'	64.09'	6" AC BERM
7	21°48'51" W	2044.00'	778.21'	393.87'	6" CURB & GUTTER
8	N 02°14'20" W	--	235.48'	--	6" CURB & GUTTER
9	90°00'00" W	30.00'	47.12'	30.00'	6" CURB & GUTTER
10	90°00'00" W	30.00'	47.12'	30.00'	6" CURB & GUTTER
11	N 02°14'20" W	--	89.16'	--	6" CURB & GUTTER



\* INCLUDES RIGHT TO BUILD, EXTEND, AND MAINTAIN DRAINAGE STRUCTURES AND SLOPES WITH ACCESS BEYOND RIGHT-OF-WAY FOR CONSTRUCTION AND MAINTENANCE OF COUNTY ROAD.



NO	BEARING/DELTA	RADIUS	LENGTH	TANGENT
1	N 02°14'20" W	--	436.64'	--
2	21°48'51" W	2005.00'	763.36'	386.36'

- CONSTRUCTION NOTES:**
- 1) CONSTRUCT TYPE "A" CURB RAMP PER COUNTY STD DS-21 (A-F)
  - 2) CONSTRUCT AC OVER AB (SEE GENERAL NOTE 2)
  - 3) CONSTRUCT 6" AC DIKE TYPE "A" PER SDRSD G-5
  - 4) CONSTRUCT 6" CURB & GUTTER TYPE "6" PER SDRSD G-2
  - 5) CONSTRUCT 6" MEDIAN CURB PER SDRSD G-6 (B-1)
  - 6) CONSTRUCT 8' WIDE STABILIZED D6 TRAIL
  - 7) CONSTRUCT STREET LIGHT WITH 100 WATT HIGH PRESSURE SODIUM LAMP
  - 8) CONSTRUCT 6" HIGH CHAIN LINK FENCE PER SDRSD M-20
  - 9) CONSTRUCT 12' WIDE CHAIN LINK GATE PER SDRSD M-20

NOTE:  
FOR STORM DRAIN IMPROVEMENTS SEE SHEETS 27-39.  
FOR WATERLINE IMPROVEMENTS SEE SHEETS 13-19.



NO.	DESCRIPTION	APPROVED BY	DATE

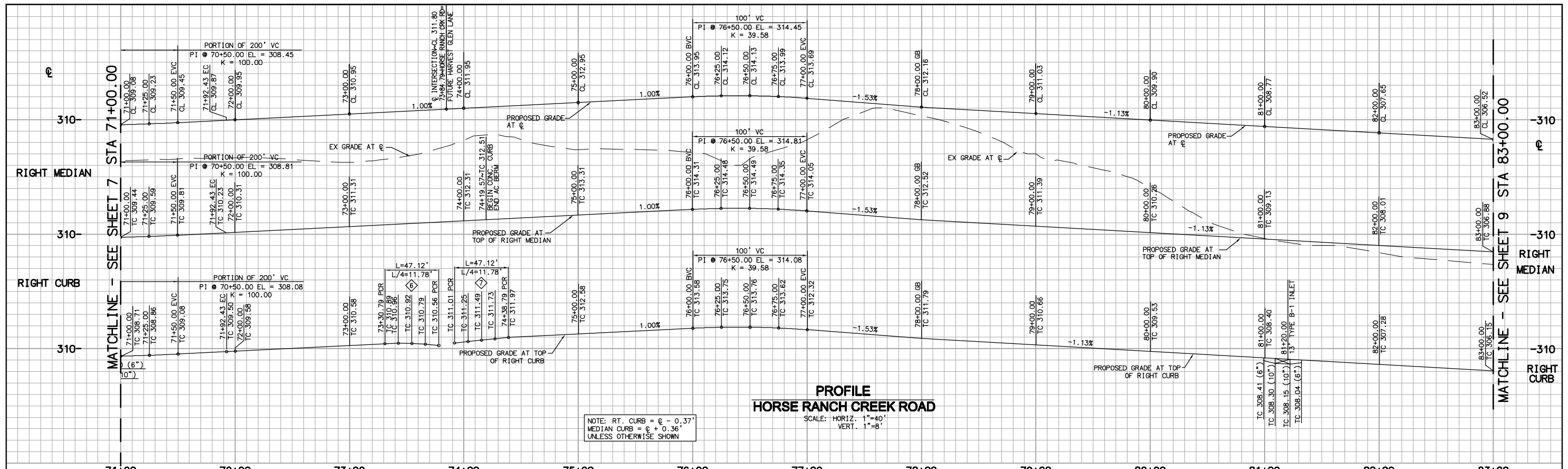
**PERMITS**  
SPECIFIC PLAN NO. UY 4718\_GPA-09-006  
NOTICE OF INTENT NO. WJD# 9\_37C358873  
UY 4718\_SCH#2007011336

**BENCH MARK**  
DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
LOCATION: SW 15/76

RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
ELEVATION: 306.49 DATUM: USC&GS DATUM OF 1929

<b>PRIVATE CONTRACT</b>	
SHEET 7	40 SHEETS
COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	
<b>HORSE RANCH CREEK ROAD STREET PLAN</b>	
CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)	
RECOMMENDED FOR APPROVAL:	APPROVED FOR: MOHAMAD FAHRRIDDINE COUNTY ENGINEER
Engineer of work: EXP. 3/31/11	CHECKED BY: IMPROVEMENT PLAN NO. <b>CG-4718</b>
KEVIN VOGELSSANG RCE 41213	APPROVAL DATE:

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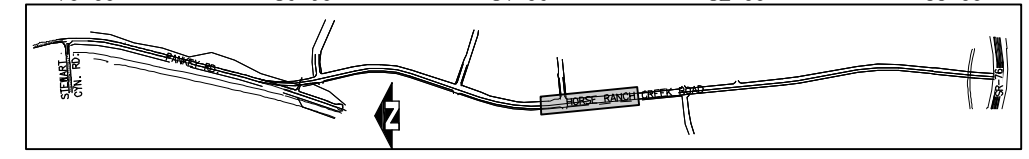
**PROFILE**  
**HORSE RANCH CREEK ROAD**

SCALE: HORIZ. 1"=40'  
VERT. 1"=8'

NOTE: RT. CURB = @ - 0.37'  
MEDIAN CURB = @ + 0.36'  
UNLESS OTHERWISE SHOWN

NOTE:  
FOR STORM DRAIN IMPROVEMENTS  
SEE SHEETS 27-39.  
FOR WATERLINE IMPROVEMENTS  
SEE SHEETS 13-19.

\* INCLUDES RIGHT TO BUILD, EXTEND, AND MAINTAIN  
DRAINAGE STRUCTURES AND SLOPES WITH ACCESS  
BEYOND RIGHT-OF-WAY FOR CONSTRUCTION AND  
MAINTENANCE OF COUNTY ROAD.



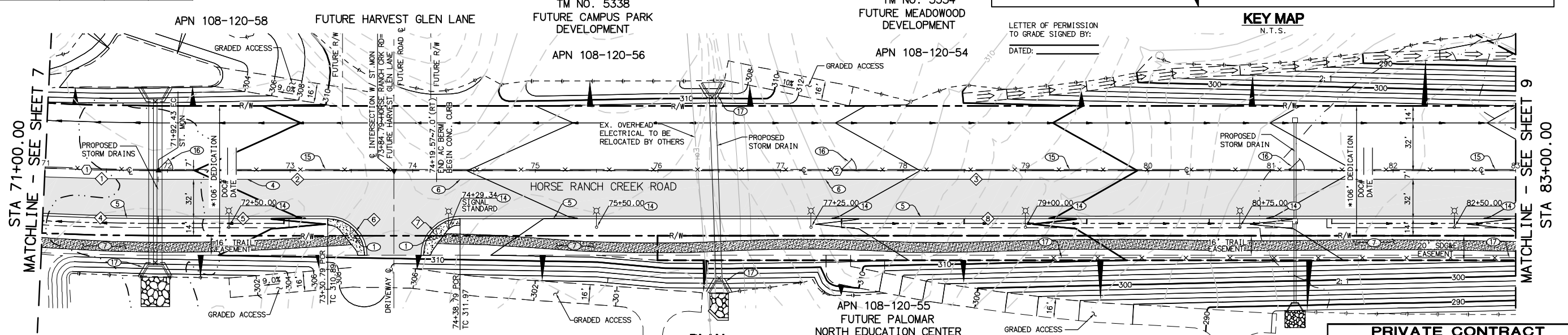
**KEY MAP**  
N.T.S.

LETTER OF PERMISSION  
TO GRADE SIGNED BY: \_\_\_\_\_  
DATED: \_\_\_\_\_

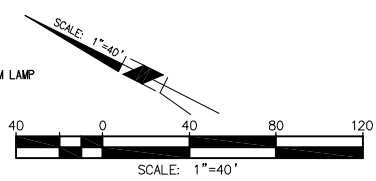
**CENTERLINE DATA TABLE**

ID	BEARING/DELTA	RADIUS	LENGTH	TANGENT
1	02°38'28" E	2005.00'	92.42'	46.22'
2	N 26°41'44" W	---	1107.57'	---

LETTER OF PERMISSION  
TO GRADE SIGNED BY: \_\_\_\_\_  
DATED: \_\_\_\_\_



**PLAN**  
**HORSE RANCH CREEK ROAD**



**CONSTRUCTION NOTES:**

- 1 CONSTRUCT TYPE "A" CURB RAMP PER COUNTY STD DS-21 (A-F)
- 2 CONSTRUCT AC OVER AB (SEE GENERAL NOTE 2)
- 3 CONSTRUCT 6" AC DIKE TYPE "A" PER SORSO G-5
- 4 CONSTRUCT 6" CURB & GUTTER TYPE "6" PER SORSO G-2
- 5 CONSTRUCT 6" MEDIAN CURB PER SORSO G-6 (B-1)
- 6 CONSTRUCT 6" WIDE STABILIZED DG TRAIL
- 7 CONSTRUCT STREET LIGHT WITH 100 WATT HIGH PRESSURE SODIUM LAMP
- 8 CONSTRUCT 6" HIGH CHAIN LINK FENCE PER SORSO M-20
- 9 CONSTRUCT 12" WIDE CHAIN LINK GATE PER SORSO M-20
- 10 CONSTRUCT 4" HIGH CHAIN LINK SAFETY FENCE PER DS-09

**CURB DATA TABLE**

ID	BEARING/DELTA	RADIUS	LENGTH	TANGENT	NOTE
1	02°38'28" E	2012.00'	92.75'	46.38'	6" AC BERM
2	S 26°41'44" E	---	227.15'	---	6" AC BERM
3	S 26°41'44" E	---	880.42'	---	6" MEDIAN CURB
4	02°38'28" E	2044.00'	94.22'	47.12'	6" CURB & GUTTER
5	N 26°41'44" W	---	138.36'	---	6" CURB & GUTTER
6	90°00'00" E	30.00'	47.12'	30.00'	6" CURB & GUTTER
7	90°00'00" E	30.00'	47.12'	30.00'	6" CURB & GUTTER
8	S 26°41'44" E	---	861.21'	---	6" CURB & GUTTER

**COUNTY APPROVED CHANGES**

NO.	DESCRIPTION	APPROVED BY	DATE

**PERMITS**

SPECIFIC PLAN NO. UY 4718\_GPA-09-006  
NOTICE OF INTENT NO. WID# 9 37C358873  
UY 4718\_SCH#2007011136

**BENCH MARK**

DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
LOCATION: SW 15/76  
RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
ELEVATION: 306.49 DATUM: USC&GS DATUM OF 1929

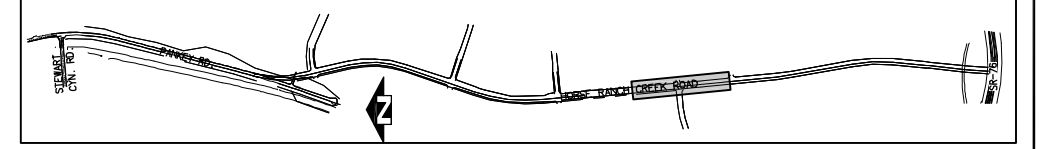
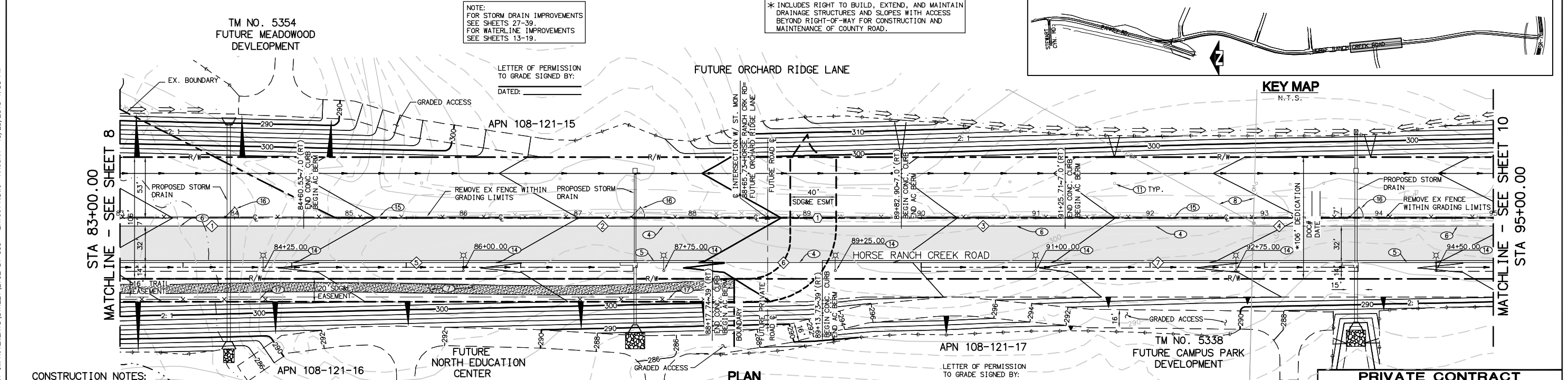
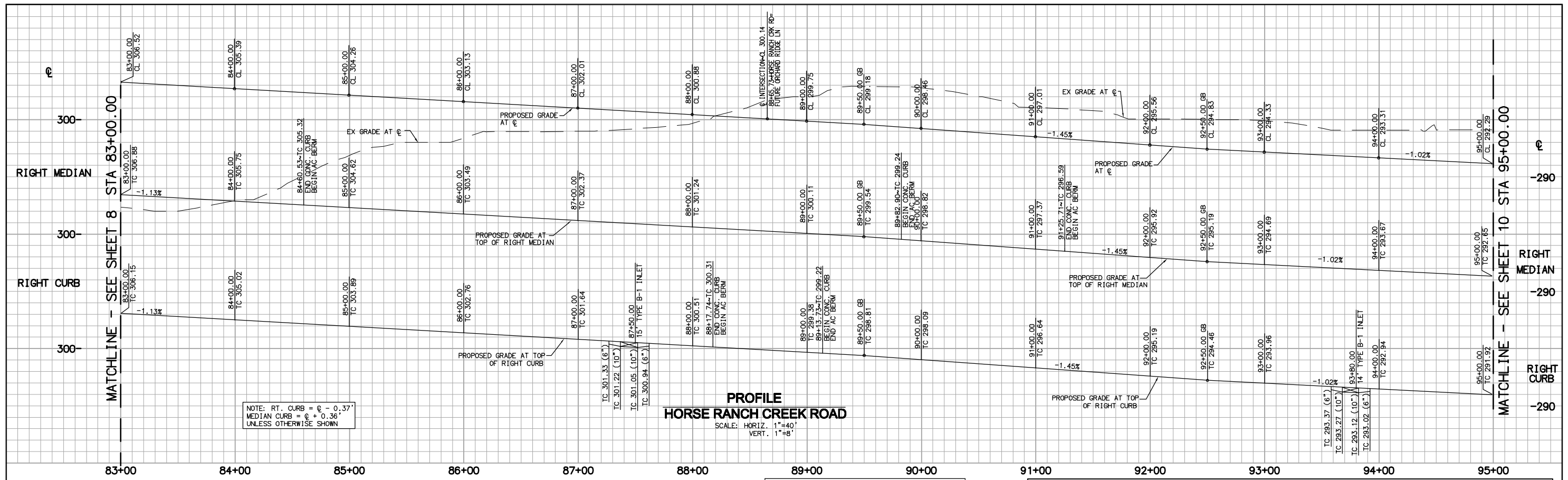
**PRIVATE CONTRACT**

SHEET <b>8</b>	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	<b>40</b> SHEETS
PLANS FOR THE IMPROVEMENT OF: <b>HORSE RANCH CREEK ROAD</b> STREET PLAN		
CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)		
RECOMMENDED FOR APPROVAL:	APPROVED FOR: MOHAMAD FAKHRUDDINE COUNTY ENGINEER	BY:
Engineer of work: EXP. 3/31/11	CHECKED BY:	IMPROVEMENT PLAN NO. <b>CG-4718</b>
KEVIN VOGELSANG RCE 41213	APPROVAL DATE:	

IMPROVEMENT PLANS

RBF CONSULTING, INC.  
ENGINEER: KEVIN VOGELSANG  
TELEPHONE: (619) 614-5000





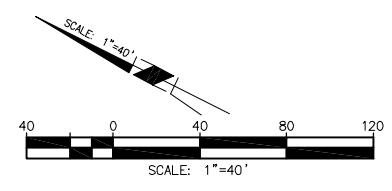
- CONSTRUCTION NOTES:**
- CONSTRUCT TYPE "B" CURB RAMP PER COUNTY STD DS-21 (A-F)
  - CONSTRUCT AC OVER AB (SEE GENERAL NOTE 2)
  - CONSTRUCT 6" AC DIKE TYPE "A" PER SDRSD G-5
  - CONSTRUCT 6" CURB & GUTTER TYPE "6" PER SDRSD G-2
  - CONSTRUCT 6" MEDIAN CURB PER SDRSD G-6 (B-1)
  - CONSTRUCT 8" WIDE MEANDERING DG TRAIL
  - EXISTING OVERHEAD ELECTRICAL TO BE REMOVED
  - REMOVE EXISTING WOOD POSTS LOCATED WITHIN GRADING LIMITS
  - CONSTRUCT STREET LIGHT WITH 100 WATT HIGH PRESSURE SODIUM LAMP
  - CONSTRUCT 6" HIGH CHAIN LINK FENCE PER SDRSD M-20
  - CONSTRUCT 12" WIDE CHAIN LINK GATE PER SDRSD M-20
  - CONSTRUCT 4" HIGH CHAIN LINK SAFETY FENCE PER DS-09

**CENTERLINE DATA TABLE**

STATION	BEARING/DELTA	RADIUS	LENGTH	TANGENT
1	N 26°41'44" W	---	1200.00'	---

**CURB DATA TABLE**

ID	BEARING/DELTA	RADIUS	LENGTH	TANGENT	NOTE
1	S 26°41'44" E	---	160.53'	---	6" MEDIAN CURB
2	S 26°41'44" E	---	522.17'	---	6" AC BERM
3	S 26°41'44" E	---	143.01'	---	6" MEDIAN CURB
4	S 26°41'44" E	---	374.30'	---	6" AC BERM
5	S 26°41'44" E	---	517.74'	---	6" CURB & GUTTER
6	S 26°41'44" E	---	95.99'	---	6" AC BERM
7	S 26°41'44" E	---	586.27'	---	6" CURB & GUTTER



**COUNTY APPROVED CHANGES**

NO.	DESCRIPTION	APPROVED BY	DATE

**PERMITS**

SPECIFIC PLAN NO. UY 4718\_GPA-09-006  
NOTICE OF INTENT NO. WDD# 9\_37C358873  
UY 4718\_SCH#2007011136

**BENCH MARK**

DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
LOCATION: SW 15/76  
RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
ELEVATION: 306.49 DATUM: USC&GS DATUM OF 1929

**PRIVATE CONTRACT**

SHEET 9 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS 40 SHEETS

PLANS FOR THE IMPROVEMENT OF:  
**HORSE RANCH CREEK ROAD STREET PLAN**

CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)

RECOMMENDED FOR APPROVAL: \_\_\_\_\_ APPROVED FOR: MOHAMAD FAKHRUDDINE COUNTY ENGINEER

BY: \_\_\_\_\_

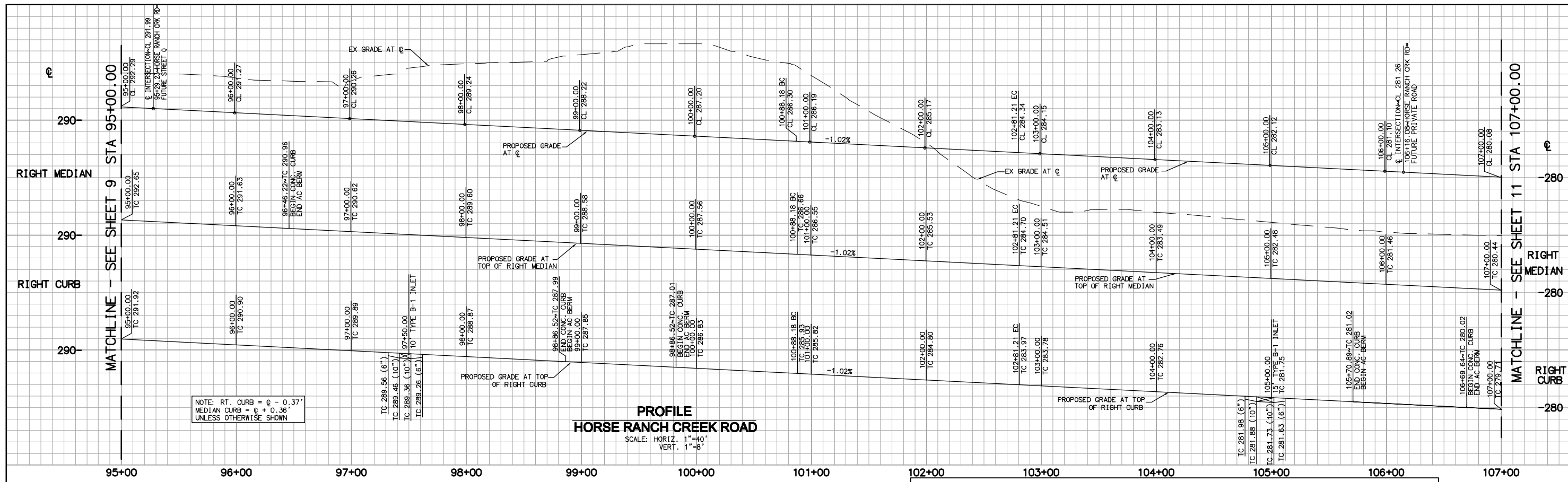
Engineer of work: EXP. 3/31/11 KEVIN VOGELSANG RCE 41213

CHECKED BY: \_\_\_\_\_ IMPROVEMENT PLAN NO. CG-4718

APPROVAL DATE: \_\_\_\_\_



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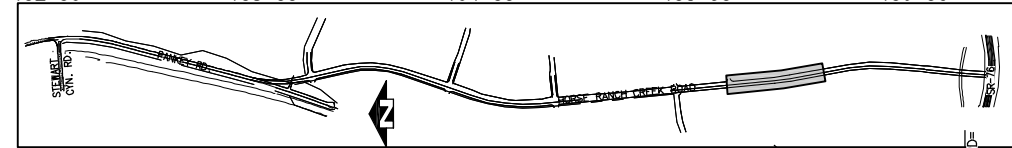
NOTE: RT. CURB =  $\phi - 0.37'$   
MEDIAN CURB =  $\phi + 0.36'$   
UNLESS OTHERWISE SHOWN

**CENTERLINE DATA TABLE**

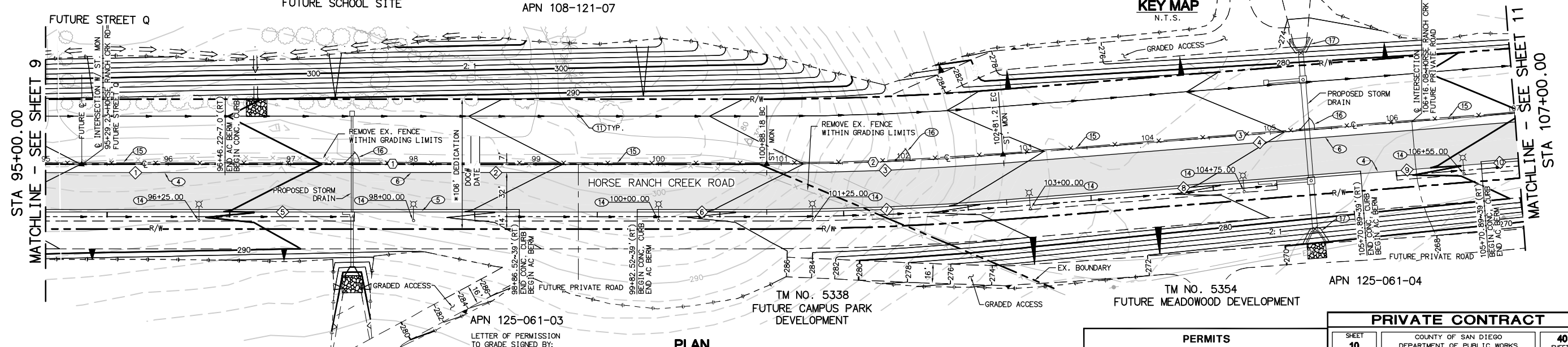
ID	BEARING/DELTA	RADIUS	LENGTH	TANGENT
1	N 26°41'44" W	---	588.18'	---
2	04°36'29"	2400.00'	193.02'	96.56'
3	N 31°18'13" W	---	418.79'	---

LETTER OF PERMISSION TO GRADE SIGNED BY: \_\_\_\_\_  
DATED: \_\_\_\_\_

NOTE:  
FOR STORM DRAIN IMPROVEMENTS  
SEE SHEETS 27-39.  
FOR WATERLINE IMPROVEMENTS  
SEE SHEETS 13-19.



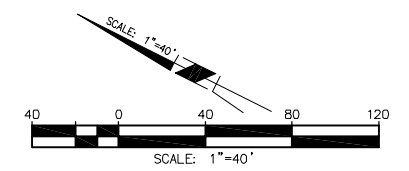
\* INCLUDES RIGHT TO BUILD, EXTEND, AND MAINTAIN DRAINAGE STRUCTURES AND SLOPES WITH ACCESS BEYOND RIGHT-OF-WAY FOR CONSTRUCTION AND MAINTENANCE OF COUNTY ROAD.



**CURB DATA TABLE**

ID	BEARING/DELTA	RADIUS	LENGTH	TANGENT	NOTE
1	S 26°41'44" E	---	146.22'	---	6" AC BERM
2	S 26°41'44" E	---	441.97'	---	6" MEDIAN CURB
3	04°36'29"	2400.00'	193.58'	96.84'	6" MEDIAN CURB
4	N 31°18'13" W	---	418.79'	---	6" MEDIAN CURB
5	S 26°41'44" E	---	386.51'	---	6" CURB & GUTTER
6	S 26°41'44" E	---	105.67'	---	6" CURB & GUTTER
7	04°36'29"	2439.00'	196.16'	98.13'	6" CURB & GUTTER
8	N 31°18'13" W	---	289.68'	---	6" CURB & GUTTER
9	N 31°18'13" W	---	98.75'	---	6" AC BERM
10	N 31°18'13" W	---	30.37'	---	6" CURB & GUTTER

- CONSTRUCTION NOTES:**
- CONSTRUCT AC OVER AB (SEE GENERAL NOTE 2)
  - CONSTRUCT 6" AC DIKE TYPE "A" PER SDRSD 6-5
  - CONSTRUCT 6" CURB & GUTTER TYPE "G" PER SDRSD 6-2
  - CONSTRUCT 6" MEDIAN CURB PER SDRSD 6-6 (B-1)
  - REMOVE EXISTING WOOD POSTS LOCATED WITHIN GRADING LIMITS
  - CONSTRUCT STREET LIGHT WITH 100 WATT HIGH PRESSURE SODIUM LAMP
  - CONSTRUCT 6' HIGH CHAIN LINK FENCE PER SDRSD M-20
  - CONSTRUCT 12' WIDE CHAIN LINK GATE PER SDRSD M-20
  - CONSTRUCT 4' HIGH CHAIN LINK FENCE PER DS-09



**COUNTY APPROVED CHANGES**

NO.	DESCRIPTION	APPROVED BY	DATE

**PERMITS**

SPECIFIC PLAN NO. UY 4718\_GPA-09-006  
NOTICE OF INTENT NO. WDD# 9 37C358873  
UY 4718\_SCH#2007011136

**BENCH MARK**

DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
LOCATION: SW 15/76  
RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
ELEVATION: 306.49 DATUM: USC&GS DATUM OF 1929

**PRIVATE CONTRACT**

SHEET 10 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS 40 SHEETS

PLANS FOR THE IMPROVEMENT OF:  
**HORSE RANCH CREEK ROAD STREET PLAN**

CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)

RECOMMENDED FOR APPROVAL: \_\_\_\_\_ APPROVED FOR: MOHAMAD FAKHRILODINE COUNTY ENGINEER

BY: \_\_\_\_\_

Engineer of work: EXP. 3/31/11 KEVIN VOGELSANG RCE 41213

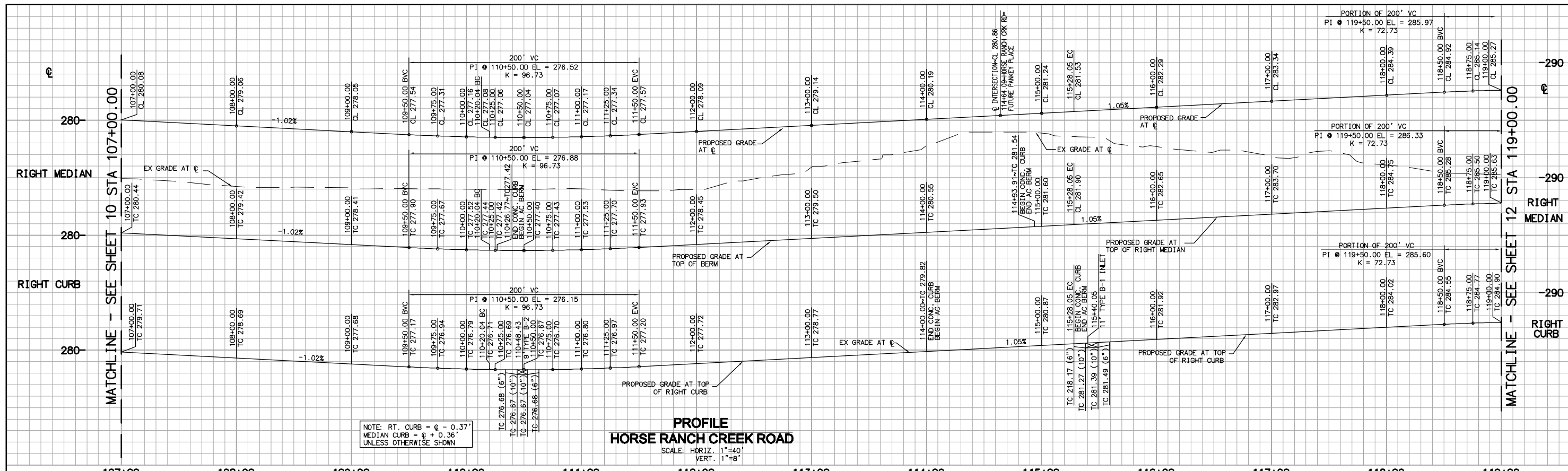
CHECKED BY: \_\_\_\_\_ IMPROVEMENT PLAN NO. CG-4718

APPROVAL DATE: \_\_\_\_\_

IMPROVEMENT PLANS

RBF CONSULTING, INC.  
ENGINEER: KEVIN VOGELSANG  
TELEPHONE: (619) 614-5000

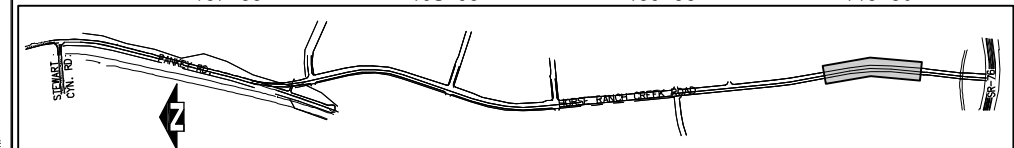
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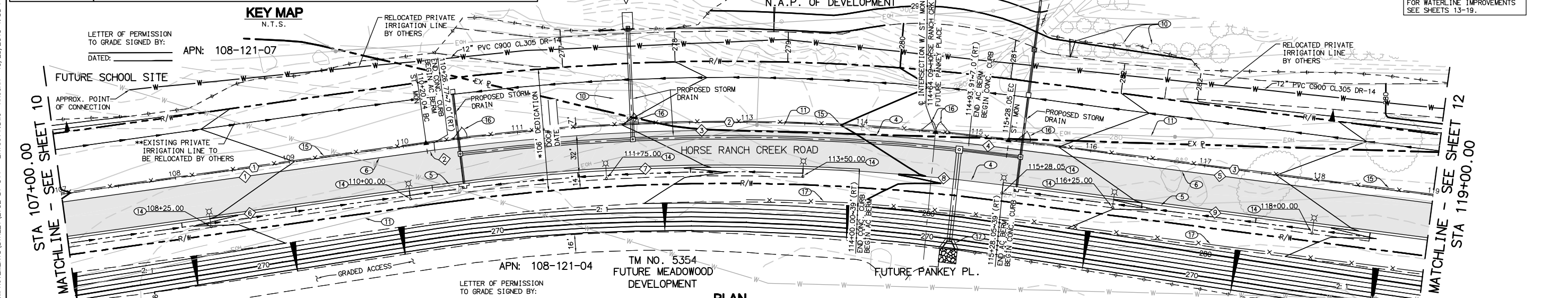
107+00 108+00 109+00 110+00 111+00 112+00 113+00 114+00 115+00 116+00 117+00 118+00 119+00

NOTE: RT. CURB = @ - 0.37'  
 MEDIAN CURB = @ + 0.36'  
 UNLESS OTHERWISE SHOWN

**PROFILE**  
**HORSE RANCH CREEK ROAD**  
 SCALE: HORIZ. 1"=40'  
 VERT. 1"=8'



**KEY MAP**  
 N.T.S.



**PLAN**  
**HORSE RANCH CREEK ROAD**

**CENTERLINE DATA TABLE**

NO	BEARING/DELTA	RADIUS	LENGTH	TANGENT
1	N 31°18'13" W	---	320.04'	---
2	15°19'10"	1900.00'	508.01'	255.53'
3	N 15°59'03" W	---	371.95'	---

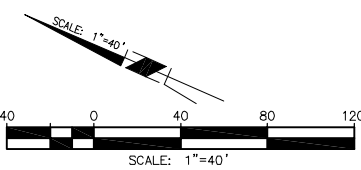
\* INCLUDES RIGHT TO BUILD, EXTEND, AND MAINTAIN DRAINAGE STRUCTURES AND SLOPES WITH ACCESS BEYOND RIGHT-OF-WAY FOR CONSTRUCTION AND MAINTENANCE OF COUNTY ROAD.

NOTE:  
 FOR STORM DRAIN IMPROVEMENTS  
 SEE SHEETS 27-39.  
 FOR WATERLINE IMPROVEMENTS  
 SEE SHEETS 13-19.

- CONSTRUCTION NOTES:**
- CONSTRUCT AC OVER AB (SEE GENERAL NOTE 2)
  - CONSTRUCT 6" AC DIKE TYPE "A" PER SDRSD G-5
  - CONSTRUCT 6" CURB & GUTTER TYPE "G" PER SDRSD G-2
  - CONSTRUCT 6" MEDIAN CURB PER SDRSD G-6 (B-1)
  - REMOVE EXISTING TREE
  - EXISTING OVERHEAD ELECTRICAL TO BE REMOVED
  - CONSTRUCT STREET LIGHT WITH 100 WATT HIGH PRESSURE SODIUM LAMP
  - CONSTRUCT 6" HIGH CHAIN LINK FENCE PER SDRSD M-20
  - CONSTRUCT 12" WIDE CHAIN LINK GATE PER SDRSD M-20
  - CONSTRUCT 4' HIGH CHAIN LINK SAFETY FENCE PER DS-09

**CURB DATA TABLE**

NO	BEARING/DELTA	RADIUS	LENGTH	TANGENT	NOTE
1	N 31°18'13" W	---	320.04'	---	6" MEDIAN CURB
2	00°12'10"	1893.00'	6.70'	3.35'	6" MEDIAN CURB
3	14°05'13"	1893.00'	465.42'	233.89'	6" AC BERM
4	01°01'47"	1893.00'	34.02'	17.01'	6" MEDIAN CURB
5	N 15°59'03" W	---	371.95'	---	6" MEDIAN CURB
6	N 31°18'13" W	---	320.04'	---	6" CURB & GUTTER
7	11°27'04"	1861.00'	371.94'	186.59'	6" CURB & GUTTER
8	03°51'42"	1861.00'	125.43'	62.74'	6" AC BERM
9	N 15°59'03" W	---	371.95'	---	6" CURB & GUTTER



**COUNTY APPROVED CHANGES**

NO.	DESCRIPTION	APPROVED BY	DATE

**PERMITS**

SPECIFIC PLAN NO. JY 4718\_GPA-09-006  
 NOTICE OF INTENT NO. WDID# 9 37C358873  
JY 4718\_SCH#2007011136

**BENCH MARK**

DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
 LOCATION: SW 15/76  
 RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
 ELEVATION: 306.49 DATUM: JUS&GS DATUM OF 1929

**PRIVATE CONTRACT**

SHEET **11** COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS **40** SHEETS

PLANS FOR THE IMPROVEMENT OF:  
**HORSE RANCH CREEK ROAD**  
**STREET PLAN**

CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)

RECOMMENDED FOR APPROVAL: \_\_\_\_\_ APPROVED FOR: MOHAMAD FAKHRILODINE  
 COUNTY ENGINEER

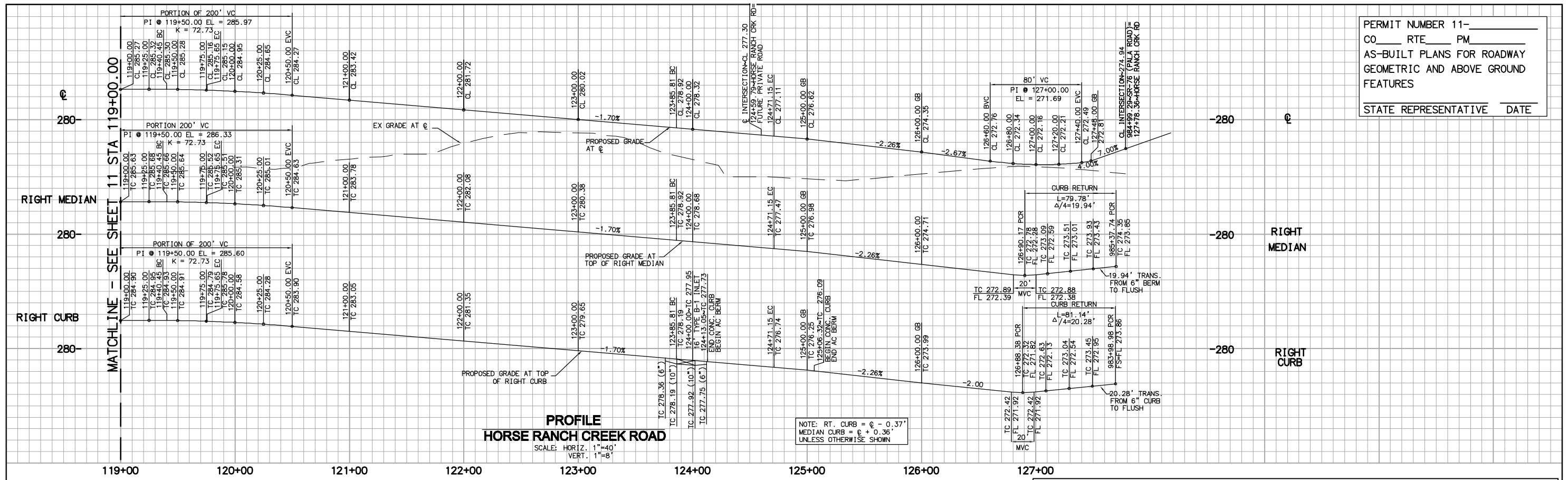
BY: \_\_\_\_\_

Engineer of work: EXP. 3/31/11 CHECKED BY: \_\_\_\_\_ IMPROVEMENT PLAN NO. **CG-4718**  
KEVIN VOGELSANG RCE 41213 APPROVAL DATE: \_\_\_\_\_

IMPROVEMENT PLANS

RFB CONSULTING, INC.  
 ENGINEER: KEVIN VOGELSANG  
 TELEPHONE: (619) 614-5000

PERMIT NUMBER 11-  
 CO \_\_\_\_\_ RTE \_\_\_\_\_ PM \_\_\_\_\_  
 AS-BUILT PLANS FOR ROADWAY  
 GEOMETRIC AND ABOVE GROUND  
 FEATURES  
 STATE REPRESENTATIVE \_\_\_\_\_ DATE \_\_\_\_\_

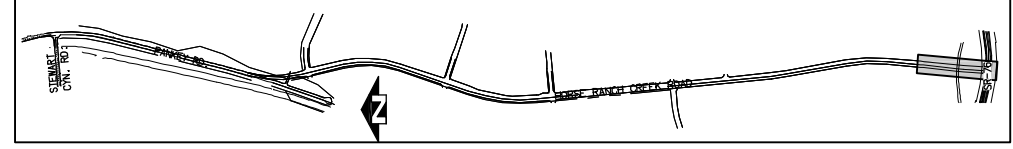


**PROFILE**  
**HORSE RANCH CREEK ROAD**  
 SCALE: HORIZ. 1"=40'  
 VERT. 1"=8'

NOTE:  
 FOR STORM DRAIN IMPROVEMENTS  
 SEE SHEETS 27-39.  
 FOR WATERLINE IMPROVEMENTS  
 SEE SHEETS 13-19.  
 FOR SR-76 (PALA RD.) IMPROVEMENTS  
 SEE URS CORP PLANS

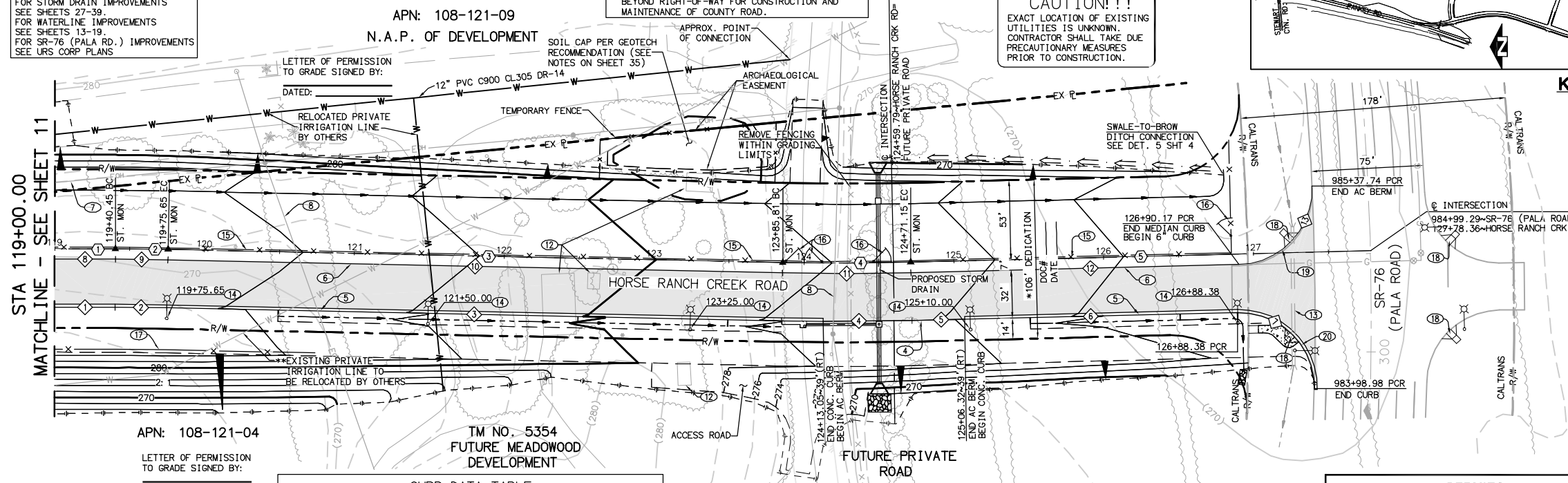
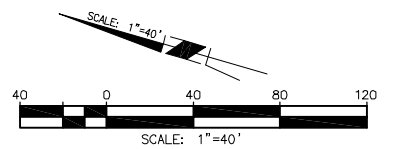
\* INCLUDES RIGHT TO BUILD, EXTEND, AND MAINTAIN  
 DRAINAGE STRUCTURES AND SLOPES WITH ACCESS  
 BEYOND RIGHT-OF-WAY FOR CONSTRUCTION AND  
 MAINTENANCE OF COUNTY ROAD.

**CAUTION!!!**  
 EXACT LOCATION OF EXISTING  
 UTILITIES IS UNKNOWN.  
 CONTRACTOR SHALL TAKE DUE  
 PRECAUTIONARY MEASURES  
 PRIOR TO CONSTRUCTION.



**KEY MAP**  
 N.T.S.

- CONSTRUCTION NOTES:**
- 3) CONSTRUCT AC OVER AB (SEE GENERAL NOTE 2)
  - 4) CONSTRUCT 6" AC DIKE TYPE "A" PER SDRSD G-5
  - 5) CONSTRUCT 6" CURB & GUTTER TYPE "G" PER SDRSD G-2
  - 6) CONSTRUCT 6" MEDIAN CURB PER SDRSD G-6 (B-1)
  - 8) EXISTING OVERHEAD ELECTRICAL TO BE REMOVED
  - 12) REMOVE EXISTING BUILDING STRUCTURES
  - 13) EXISTING STORM DRAIN PIPE TO REMAIN
  - 14) CONSTRUCT STREET LIGHT WITH 100 WATT HIGH PRESSURE SODIUM LAMP
  - 15) CONSTRUCT 6' HIGH CHAIN LINK FENCE PER SDRSD M-20
  - 16) CONSTRUCT 12" WIDE CHAIN LINK GATE PER SDRSD M-20
  - 17) CONSTRUCT 4' HIGH CHAIN LINK SAFETY FENCE PER DS-09
  - 18) CONSTRUCT CASE "A" CURB RAMP PER CALTRANS STD AB8A
  - 19) CONSTRUCT 6" CURB PER CALTRANS STD AB7A TYPE A1
  - 20) CONSTRUCT 6" CURB & GUTTER PER CALTRANS STD AB7A TYPE A2



APN: 108-121-09  
 N.A.P. OF DEVELOPMENT

APN: 108-121-04

TM NO. 5354  
 FUTURE MEADOWOOD  
 DEVELOPMENT

\*\* EXISTING IRRIGATION LINE SHALL NOT BE  
 REMOVED/ABANDONED UNTIL NEW IRRIGATION  
 LINE IS INSTALLED AND FULLY OPERATIONAL.

**CENTERLINE DATA TABLE**

STATION	BEARING/Delta	RADIUS	LENGTH	TANGENT
1	N 15° 59' 03" W	--	40.45'	--
2	00° 40' 24"	2994.42'	35.19'	17.60'
3	N 14° 53' 39" W	--	410.16'	--
4	02° 38' 35"	1850.00'	85.34'	42.68'
5	N 17° 32' 14" W	--	307.21'	--

**CURB DATA TABLE**

STATION	BEARING/Delta	RADIUS	LENGTH	TANGENT	NOTE
1	N 15° 59' 03" W	--	40.45'	--	6" CURB & GUTTER
2	01° 05' 24"	1811.00'	34.45'	17.23'	6" CURB & GUTTER
3	N 14° 53' 39" W	--	410.16'	--	6" CURB & GUTTER
4	01° 47' 58"	1889.00'	59.33'	29.67'	6" AC BERM
5	N 17° 32' 14" W	--	35.17'	--	6" AC BERM
6	N 17° 32' 14" W	--	192.60'	--	6" CURB & GUTTER
7	92° 58' 51" W	50.00'	81.14'	52.67'	6" CURB & GUTTER
8	N 15° 59' 03" W	--	40.45'	--	6" AC BERM
9	01° 05' 24"	1843.00'	35.06'	17.53'	6" AC BERM
10	N 14° 53' 39" W	--	410.16'	--	6" AC BERM
11	02° 38' 35"	1857.00'	85.66'	42.84'	6" AC BERM
12	N 17° 32' 14" W	--	219.02'	--	6" AC BERM
13	91° 25' 35"	50.00'	79.78'	51.26'	6" CURB

**PLAN**  
**HORSE RANCH CREEK ROAD**



**COUNTY APPROVED CHANGES**

NO.	DESCRIPTION	APPROVED BY	DATE

**PERMITS**

SPECIFIC PLAN NO. UY 4718\_GPA-09-006  
 NOTICE OF INTENT NO. WJD# 9\_37C358873  
 UY 4718\_SCH#2007011136

**BENCH MARK**

DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
 LOCATION: SW 15/76  
 RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
 ELEVATION: 306.49 DATUM: USC&GS DATUM OF 1929

**PRIVATE CONTRACT**

SHEET 12 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS 40 SHEETS

PLANS FOR THE IMPROVEMENT OF:  
**HORSE RANCH CREEK ROAD**  
 STREET PLAN

CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)

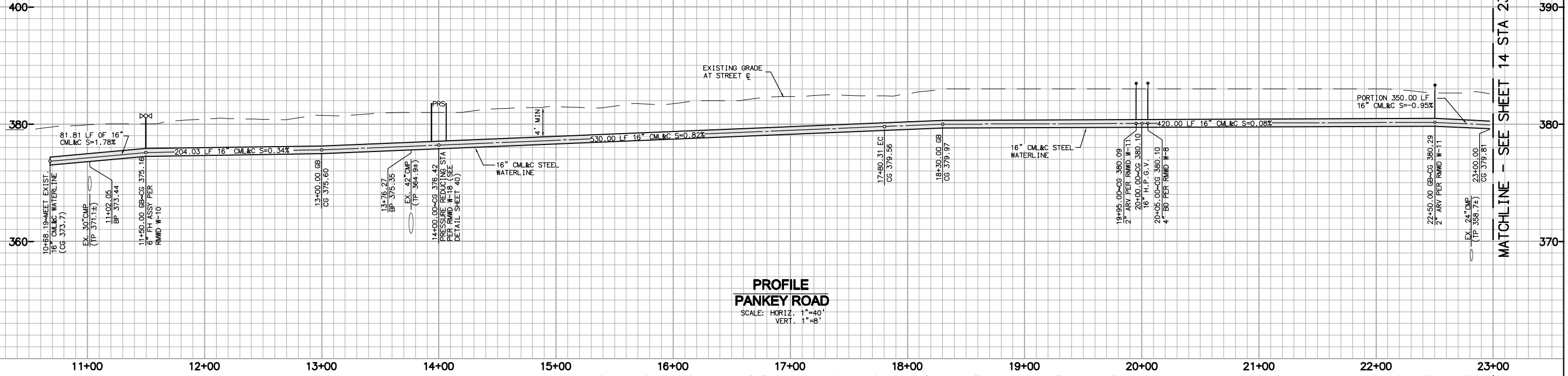
RECOMMENDED FOR APPROVAL: \_\_\_\_\_ APPROVED FOR: MOHAMAD FAKHRUDDINE COUNTY ENGINEER

BY: \_\_\_\_\_

Engineer of work: EXP. 3/31/11 CHECKED BY: \_\_\_\_\_ IMPROVEMENT PLAN NO. CG-4718

KEVIN VOGELSANG RCE 41213 APPROVAL DATE: \_\_\_\_\_

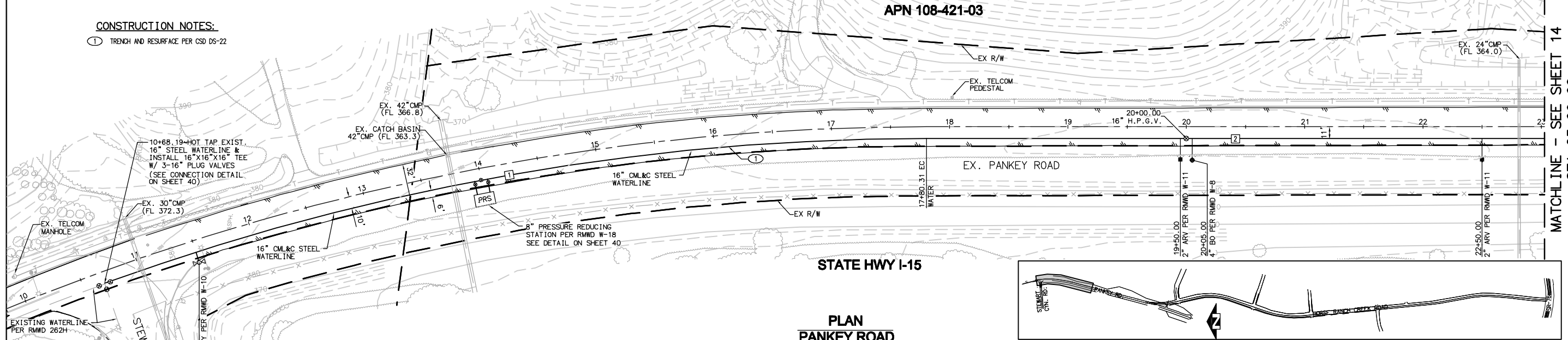
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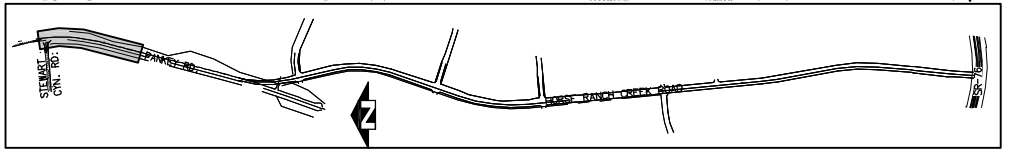
**PROFILE**  
**PANKEY ROAD**  
SCALE: HORIZ. 1"=40'  
VERT. 1"=8'

MATCHLINE - SEE SHEET 14 STA 23+00.00

**CONSTRUCTION NOTES:**  
① TRENCH AND RESURFACE PER CSD DS-22



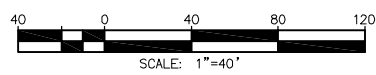
**PLAN**  
**PANKEY ROAD**  
SCALE: 1"=40'



**KEY MAP**  
N.T.S.

**CAUTION!!!**  
EXACT LOCATION OF EXISTING UTILITIES IS UNKNOWN. CONTRACTOR SHALL CONDUCT EXPLORATORY INVESTIGATIONS PRIOR TO CONSTRUCTION.

WATER DATA TABLE (CL 250)					
NO	BEARING/Delta	RADIUS	LENGTH	TANGENT	NOTE
1	20°00'18"	2030.00'	708.78'	358.04'	16" CML&C STEEL
2	N 06°33'00" W	--	522.44'	--	16" CML&C STEEL



**FIRE AGENCY**  
NORTH COUNTY  
FIRE PROTECTION DISTRICT  
APPROVED BY: \_\_\_\_\_  
DATE: \_\_\_\_\_



Date Reviewed: District Engineer

Approved Changes			
No.	Description	Approved By	Date

COUNTY APPROVED CHANGES			
No.	DESCRIPTION	APPROVED BY	DATE

**PERMITS**  
SPECIFIC PLAN NO. UY 4718\_GPA-09-006  
NOTICE OF INTENT NO. W/DID# 9 37C358873  
UY 4718\_SCH#2007011136

**BENCH MARK**  
DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
LOCATION: SW 15/76  
RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
ELEVATION: 306.49 DATUM: USC&GS DATUM OF 1929

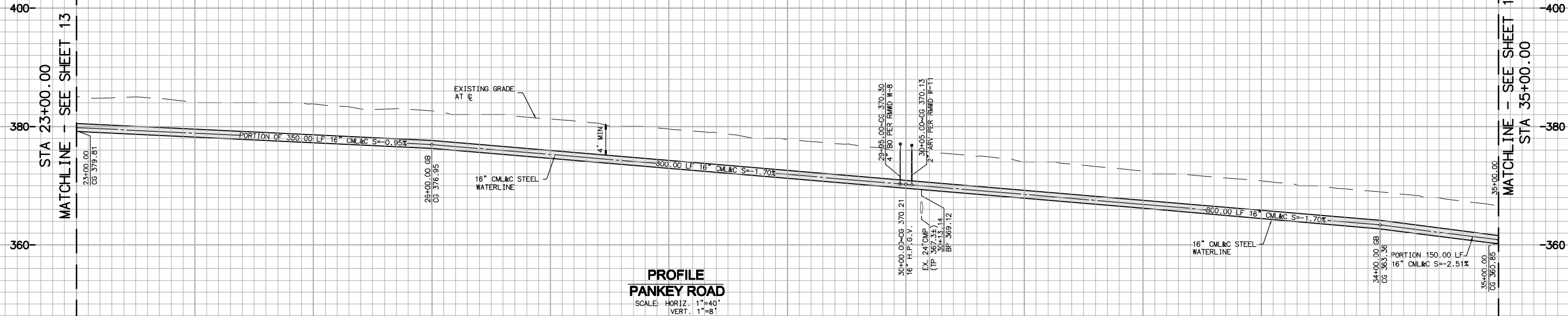
**NOTE FROM COUNTY OF SAN DIEGO:**  
PLAN SHOWN FOR BONDING PURPOSES ONLY

PRIVATE CONTRACT		
SHEET	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	40 SHEETS
PLANS FOR THE IMPROVEMENT OF:		
<b>HORSE RANCH CREEK ROAD WATER PLAN</b>		
CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)		
RECOMMENDED FOR APPROVAL:	APPROVED FOR: MOHAMAD FAKHRI/ODINE COUNTY ENGINEER	
BY:	BY:	
Engineer of work: EXP. 3/31/11	CHECKED BY:	IMPROVEMENT PLAN No. <b>CG-4718</b>
KEVIN VOGELSANG RCE 41213	APPROVAL DATE:	

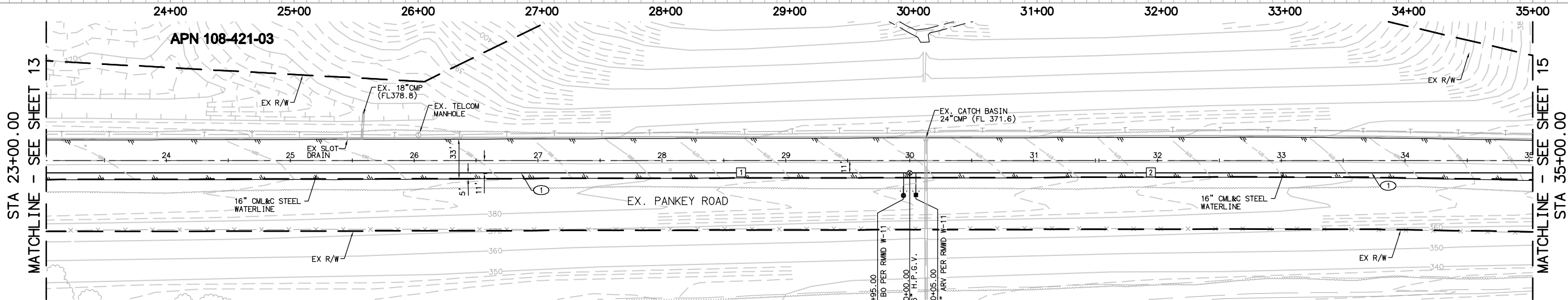
IMPROVEMENT PLANS

RBF CONSULTING, INC.  
ENGINEER: KEVIN VOGELSANG  
TELEPHONE: (656) 614-5000

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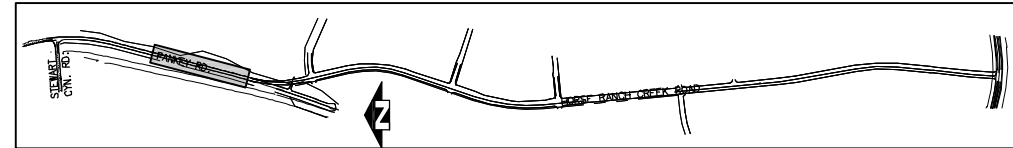
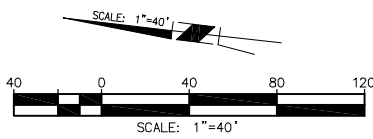
**PROFILE  
PANKEY ROAD**  
SCALE: HORIZ. 1"=40'  
VERT. 1"=8'



**PLAN  
PANKEY ROAD**

**CONSTRUCTION NOTES:**  
① TRENCH AND RESURFACE PER CSD DS-22

**CAUTION!!!**  
EXACT LOCATION OF EXISTING UTILITIES IS UNKNOWN. CONTRACTOR SHALL CONDUCT EXPLORATORY INVESTIGATIONS PRIOR TO CONSTRUCTION.



WATER DATA TABLE					
NO	BEARING/DELTA	RADIUS	LENGTH	TANGENT	NOTE
1	N 06°35'58" W	--	700.00'	--	16" CML&C STEEL
2	N 06°35'58" W	--	500.00'	--	16" CML&C STEEL



<b>FIRE AGENCY</b> NORTH COUNTY FIRE PROTECTION DISTRICT APPROVED BY: _____ DATE: _____	<b>RAINBOW</b> MUNICIPAL WATER DISTRICT 3707 S. Old Highway 395 Fallbrook, CA 92028 Water & Sewer Agency Reviewed: District Engineer
---	--

RAINBOW MUNICIPAL WATER DISTRICT Controlled by Licensee				COUNTY APPROVED CHANGES			
No.	Description	Approved By	Date	No.	DESCRIPTION	APPROVED BY	DATE

**PERMITS**  
SPECIFIC PLAN NO. UY 4718\_GPA-09-006  
NOTICE OF INTENT NO. WJID# 9\_37C358873  
UY 4718\_SCH#2007011136

**BENCH MARK**  
DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
LOCATION: SW 15/76  
RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
ELEVATION: 306.49 DATUM: USC&GS DATUM OF 1929

NOTE FROM COUNTY OF SAN DIEGO:  
PLAN SHOWN FOR BONDING PURPOSES ONLY

**PRIVATE CONTRACT**

SHEET 14 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS SHEETS 40

PLANS FOR THE IMPROVEMENT OF:  
**HORSE RANCH CREEK ROAD  
WATER PLAN**

CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)

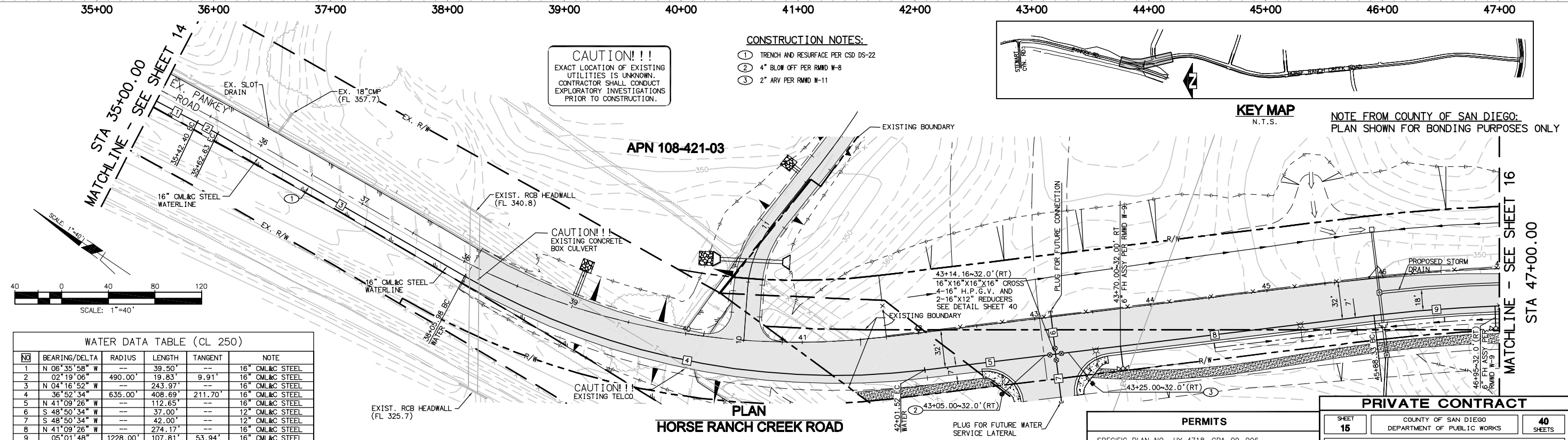
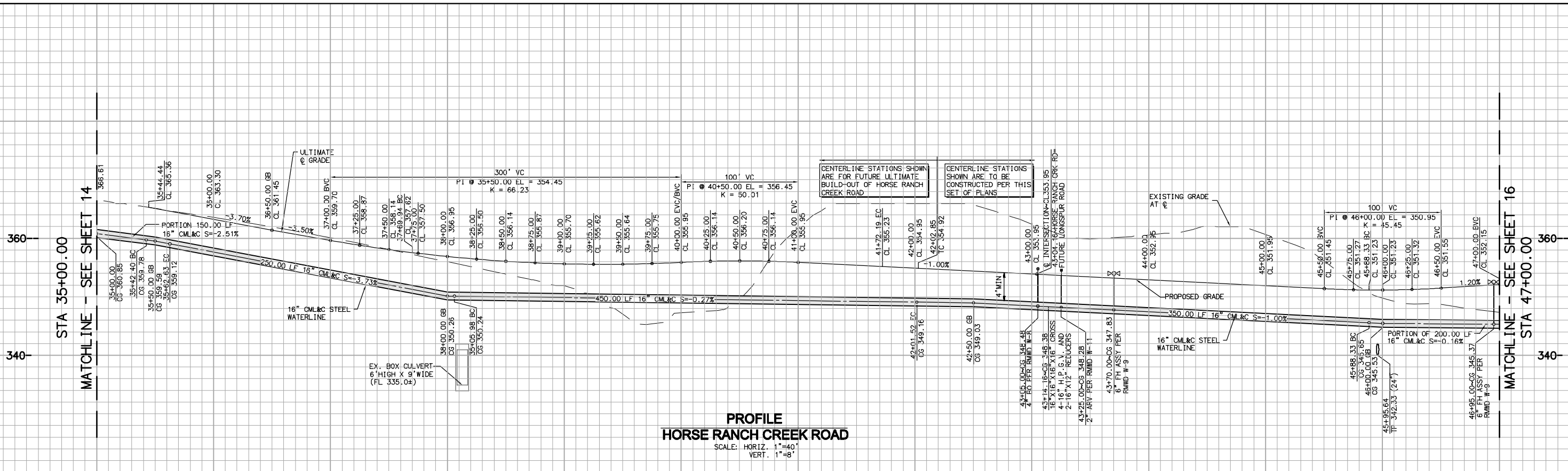
RECOMMENDED FOR APPROVAL: \_\_\_\_\_ APPROVED FOR: MOHAMAD FAHRRIDDINE COUNTY ENGINEER  
BY: \_\_\_\_\_

Engineer of work: EXP. 3/31/11 KEVIN VOGELSSANG RCE 41213 CHECKED BY: \_\_\_\_\_ IMPROVEMENT PLAN No. CG-4718  
APPROVAL DATE: \_\_\_\_\_

IMPROVEMENT PLANS

ENGINEER: RBF CONSULTING, INC. (656) 614-5000





**WATER DATA TABLE (CL 250)**

NO	BEARING/DELTA	RADIUS	LENGTH	TANGENT	NOTE
1	N 06°35'58" W	---	39.50'	---	16" CML&C STEEL
2	02°19'06"	490.00'	19.83'	9.91'	16" CML&C STEEL
3	N 04°16'52" W	---	243.97'	---	16" CML&C STEEL
4	36°52'34"	635.00'	408.69'	211.70'	16" CML&C STEEL
5	N 41°09'26" W	---	112.65'	---	16" CML&C STEEL
6	S 48°50'34" W	---	37.00'	---	12" CML&C STEEL
7	S 48°50'34" W	---	42.00'	---	12" CML&C STEEL
8	N 41°09'26" W	---	274.17'	---	16" CML&C STEEL
9	05°01'48"	1228.00'	107.81'	53.94'	16" CML&C STEEL



**FIRE AGENCY**

NORTH COUNTY  
FIRE PROTECTION DISTRICT

APPROVED BY: \_\_\_\_\_  
DATE: \_\_\_\_\_

**RAINBOW**  
3707 S. Old Highway 395 Fallbrook, CA 92028  
Water & Sewer Agency

Date Reviewed: District Engineer

**COUNTY APPROVED CHANGES**

No.	Description	Approved By	Date

**PERMITS**

SPECIFIC PLAN NO. UY 4718\_GPA-09-006  
NOTICE OF INTENT NO. WJID# 9\_37C358873  
UY 4718\_SCH#200701136

**BENCH MARK**

DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
LOCATION: SW 15/76  
RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
ELEVATION: 306.49 DATUM: USC&GS DATUM OF 1929

**PRIVATE CONTRACT**

SHEET 15 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS SHEETS 40

PLANS FOR THE IMPROVEMENT OF:  
**HORSE RANCH CREEK ROAD WATER PLAN**

CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)

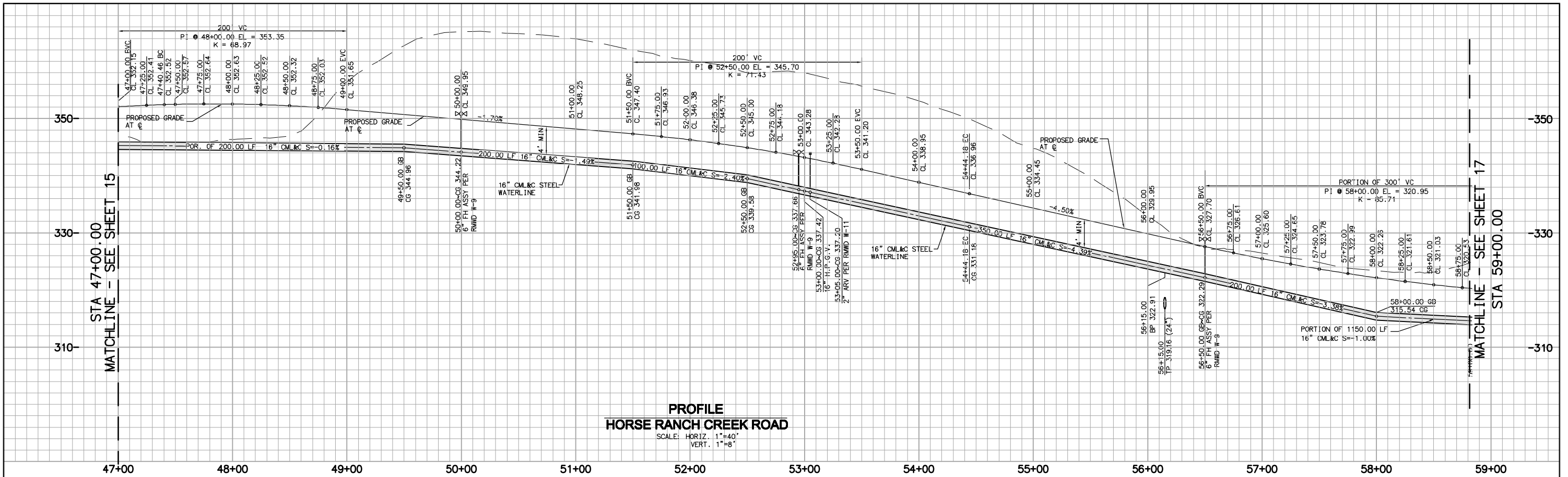
RECOMMENDED FOR APPROVAL: \_\_\_\_\_  
APPROVED FOR: MOHAMAD FAHRRIDDINE COUNTY ENGINEER

Engineer of work: EXP. 3/31/11  
KEVIN VOGELSSANG RCE 41213

CHECKED BY: \_\_\_\_\_  
APPROVAL DATE: \_\_\_\_\_

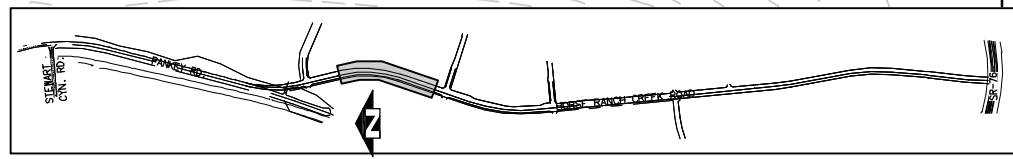
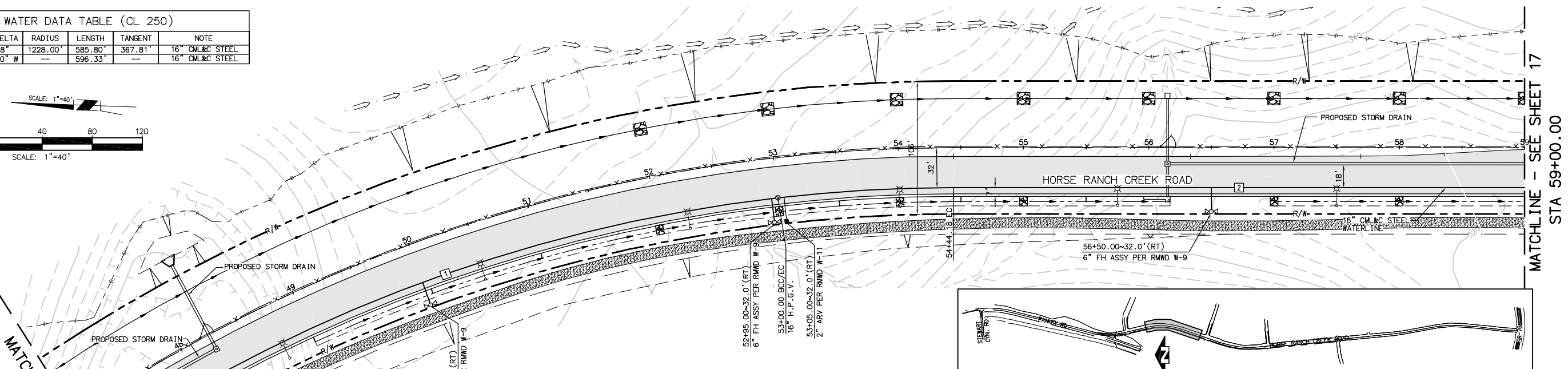
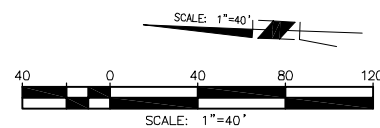
IMPROVEMENT PLAN No. **CG-4718**

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WATER DATA TABLE (CL 250)

NO	BEARING/DELTA	RADIUS	LENGTH	TANGENT	NOTE
1	01°53'18" W	1228.00'	585.80'	367.81'	16" CML&C STEEL
2	N 02°14'20" W	--	596.33'	--	16" CML&C STEEL



**FIRE AGENCY**  
NORTH COUNTY  
FIRE PROTECTION DISTRICT

APPROVED BY: \_\_\_\_\_  
DATE: \_\_\_\_\_

**RAINBOW**  
3707 S. Old Highway 395 Fallbrook, CA 92028  
Water & Sewer Agency

Date Reviewed: District Engineer

**RAINBOW**  
APPROVED CHANGES

No.	Description	Approved By	Date

**COUNTY APPROVED CHANGES**

No.	DESCRIPTION	APPROVED BY	DATE

**PERMITS**

SPECIFIC PLAN NO. UY 4718\_GPA-09-006  
NOTICE OF INTENT NO. WJID# 9\_37C358873  
UY 4718\_SCH#2007011136

**BENCH MARK**

DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
LOCATION: SW 15/76  
RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
ELEVATION: 306.49 DATUM: USC&GS DATUM OF 1929

NOTE FROM COUNTY OF SAN DIEGO:  
PLAN SHOWN FOR BONDING PURPOSES ONLY

**PRIVATE CONTRACT**

SHEET 16 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS SHEETS 40

PLANS FOR THE IMPROVEMENT OF:  
**HORSE RANCH CREEK ROAD WATER PLAN**

CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)

RECOMMENDED FOR APPROVAL: \_\_\_\_\_  
APPROVED FOR: MOHAMAD FAHRRIDDINE COUNTY ENGINEER  
BY: \_\_\_\_\_

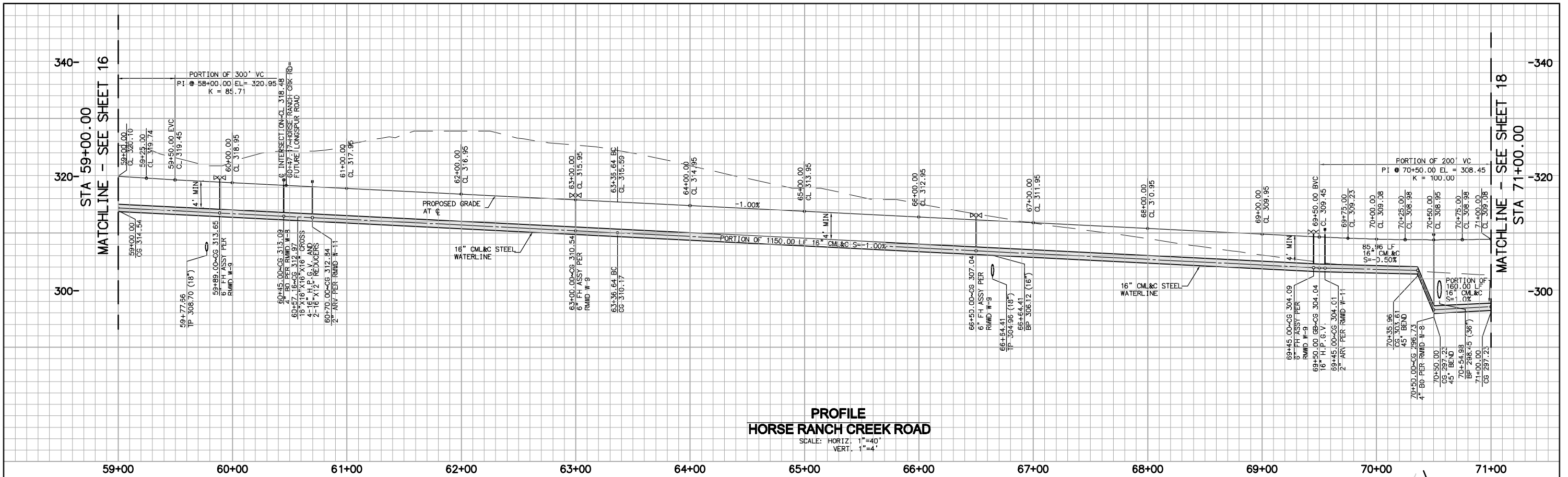
Engineer of work: EXP. 3/31/11  
KEVIN VOGELSSANG RCE 41213

CHECKED BY: \_\_\_\_\_  
APPROVAL DATE: \_\_\_\_\_

IMPROVEMENT PLAN NO. **CG-4718**

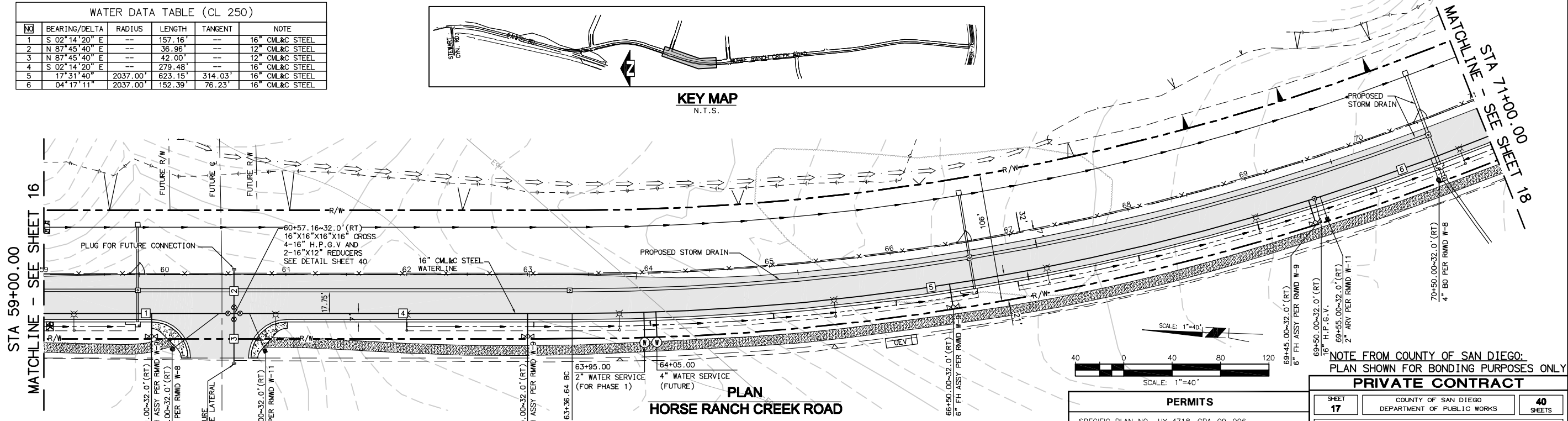
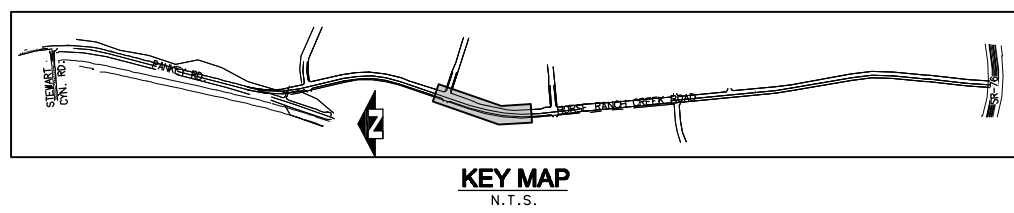
ENGINEER: RBF CONSULTING, INC. (656) 614-5000

IMPROVEMENT PLANS



WATER DATA TABLE (CL 250)

NO	BEARING/Delta	RADIUS	LENGTH	TANGENT	NOTE
1	S 02°14'20" E	--	157.16'	--	16" OML&C STEEL
2	N 87°45'40" E	--	36.96'	--	12" OML&C STEEL
3	N 87°45'40" E	--	42.00'	--	12" OML&C STEEL
4	S 02°14'20" E	--	279.48'	--	16" OML&C STEEL
5	17°31'40"	2037.00'	623.15'	314.03'	16" OML&C STEEL
6	04°17'11"	2037.00'	152.39'	76.23'	16" OML&C STEEL



STA 59+00.00  
MATCHLINE - SEE SHEET 16

MATCHLINE - SEE SHEET 18  
STA 71+00.00



**FIRE AGENCY**  
NORTH COUNTY  
FIRE PROTECTION DISTRICT

APPROVED BY: \_\_\_\_\_  
DATE: \_\_\_\_\_

**RAINBOW**  
MUNICIPAL WATER DISTRICT  
3707 S. Old Highway 395 Fallbrook, CA 92028  
Water & Sewer Agency

Reviewed: District Engineer  
Date: \_\_\_\_\_

**RAINBOW**  
MUNICIPAL WATER DISTRICT  
Approved Changes

No.	Description	Approved By	Date

**COUNTY APPROVED CHANGES**

No.	Description	APPROVED BY	DATE

**PERMITS**  
SPECIFIC PLAN NO. UY 4718\_GPA-09-006  
NOTICE OF INTENT NO. WJD# 9\_37C358873  
UY 4718\_SCH#200701136

**BENCH MARK**  
DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
LOCATION: SW 15/76  
RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
ELEVATION: 306.49 DATUM: USC&GS DATUM OF 1929

NOTE FROM COUNTY OF SAN DIEGO:  
PLAN SHOWN FOR BONDING PURPOSES ONLY

**PRIVATE CONTRACT**

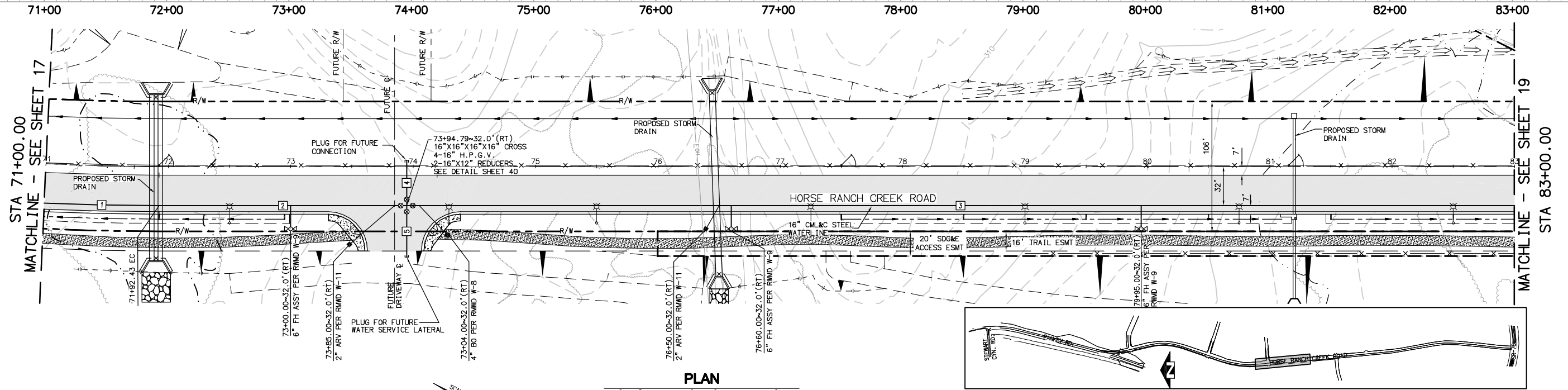
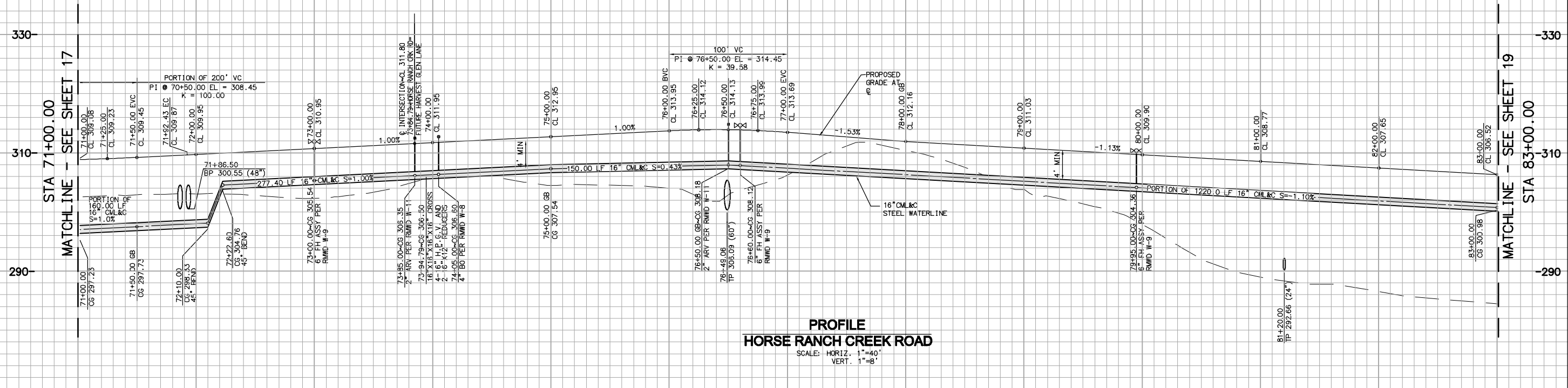
SHEET 17 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS SHEETS 40

PLANS FOR THE IMPROVEMENT OF:  
**HORSE RANCH CREEK ROAD WATER PLAN**

CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)

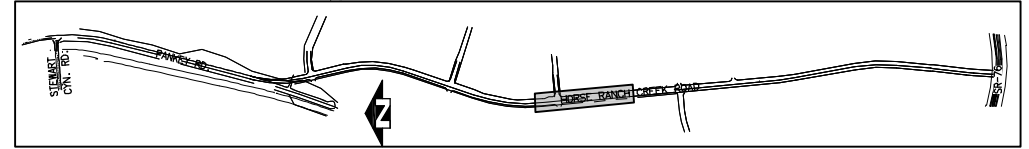
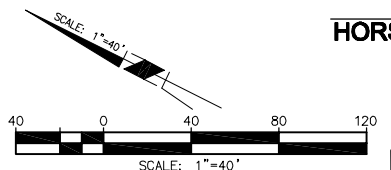
RECOMMENDED FOR APPROVAL: \_\_\_\_\_ APPROVED FOR: MOHAMAD FAHRRIDDINE COUNTY ENGINEER  
BY: \_\_\_\_\_

Engineer of work: EXP. 3/31/11 KEVIN VOGELSANG RCE 41213  
CHECKED BY: \_\_\_\_\_ IMPROVEMENT PLAN NO. CG-4718  
APPROVAL DATE: \_\_\_\_\_



**WATER DATA TABLE (CL 250)**

NO	BEARING/Delta	RADIUS	LENGTH	TANGENT	NOTE
1	02°38'28"	2037.00'	93.90'	46.96'	16" CML&C STEEL
2	N 26°41'44" W	---	202.36'	---	16" CML&C STEEL
3	N 26°41'44" W	---	904.98'	---	16" CML&C STEEL
4	N 63°18'16" E	---	37.00'	---	12" CML&C STEEL
5	N 63°18'16" E	---	42.00'	---	12" CML&C STEEL



NOTE FROM COUNTY OF SAN DIEGO:  
PLAN SHOWN FOR BONDING PURPOSES ONLY

**PRIVATE CONTRACT**

SHEET 18 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS SHEETS 40

PLANS FOR THE IMPROVEMENT OF:  
**HORSE RANCH CREEK ROAD WATER PLAN**

CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)

RECOMMENDED FOR APPROVAL: APPROVED FOR: MOHAMAD FAHRIRODDINE COUNTY ENGINEER

Engineer of work: EXP. 3/31/11 CHECKED BY: IMPROVEMENT PLAN No. KEVIN VOGELSIANG RCE 41213 APPROVAL DATE: CG-4718



**FIRE AGENCY**  
NORTH COUNTY FIRE PROTECTION DISTRICT  
APPROVED BY: \_\_\_\_\_  
DATE: \_\_\_\_\_

**RAINBOW**  
3707 S. Old Highway 395 Fallbrook, CA 92028  
Water & Sewer Agency  
Reviewed: District Engineer

**RAINBOW** Approved Changes

No.	Description	Approved By	Date

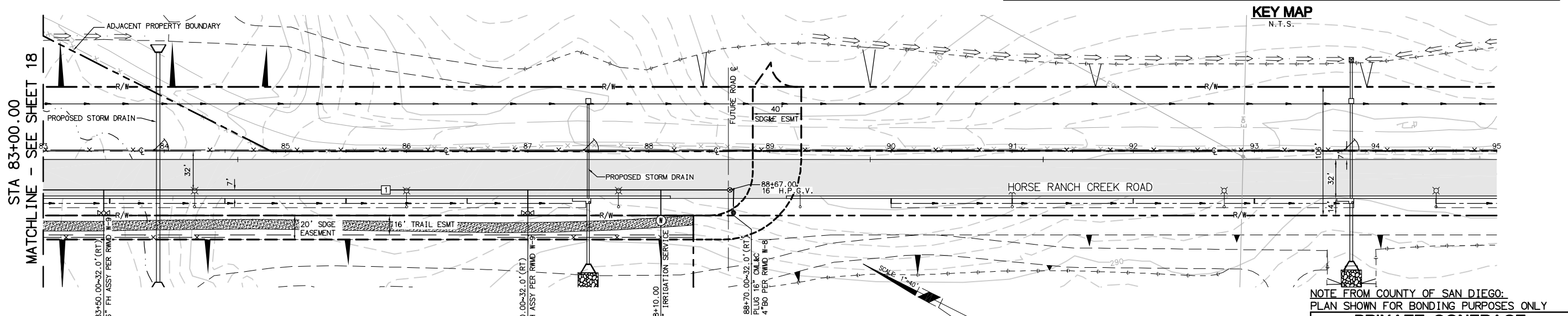
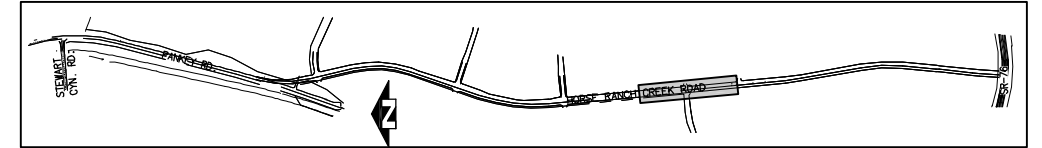
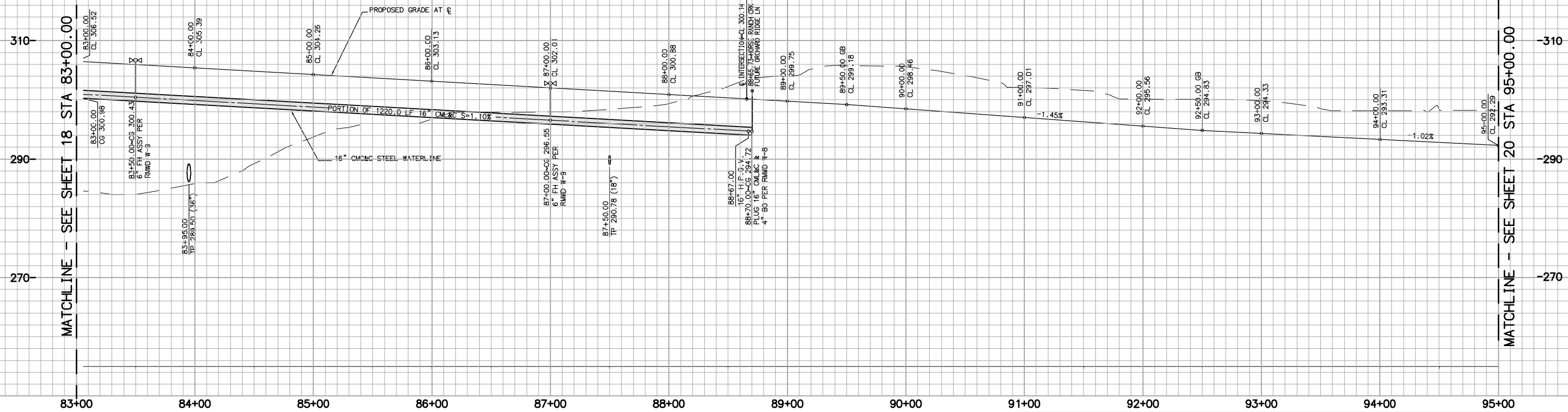
**COUNTY APPROVED CHANGES**

No.	DESCRIPTION	APPROVED BY	DATE

**PERMITS**  
SPECIFIC PLAN NO. UY 4718\_GPA-09-006  
NOTICE OF INTENT NO. WID# 9\_37C358873  
UY 4718\_SCH#2007011336

**BENCH MARK**  
DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
LOCATION: SW 15/76  
RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
ELEVATION: 306.49 DATUM: USC&GS DATUM OF 1929

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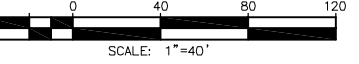
NO	BEARING/DELTA	RADIUS	LENGTH	TANGENT	NOTE
1	N 26°41'44" W	---	565.72'	---	16" CML&C STEEL



**FIRE AGENCY**  
NORTH COUNTY  
FIRE PROTECTION DISTRICT  
APPROVED BY: \_\_\_\_\_  
DATE: \_\_\_\_\_



No.	Description	Approved By	Date



**PERMITS**  
SPECIFIC PLAN NO. UY 4718\_GPA-09-006  
NOTICE OF INTENT NO. WJID# 9\_37C358873  
UY 4718\_SCH#2007011136

**BENCH MARK**  
DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
LOCATION: SW 15/76  
RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
ELEVATION: 306.49 DATUM: USC&GS DATUM OF 1929

NOTE FROM COUNTY OF SAN DIEGO:  
PLAN SHOWN FOR BONDING PURPOSES ONLY

**PRIVATE CONTRACT**

SHEET 19 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS SHEETS 40

PLANS FOR THE IMPROVEMENT OF:  
**HORSE RANCH CREEK ROAD WATER PLAN**

CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)

RECOMMENDED FOR APPROVAL: \_\_\_\_\_ APPROVED FOR: MOHAMAD FAHRIRODDINE COUNTY ENGINEER BY: \_\_\_\_\_

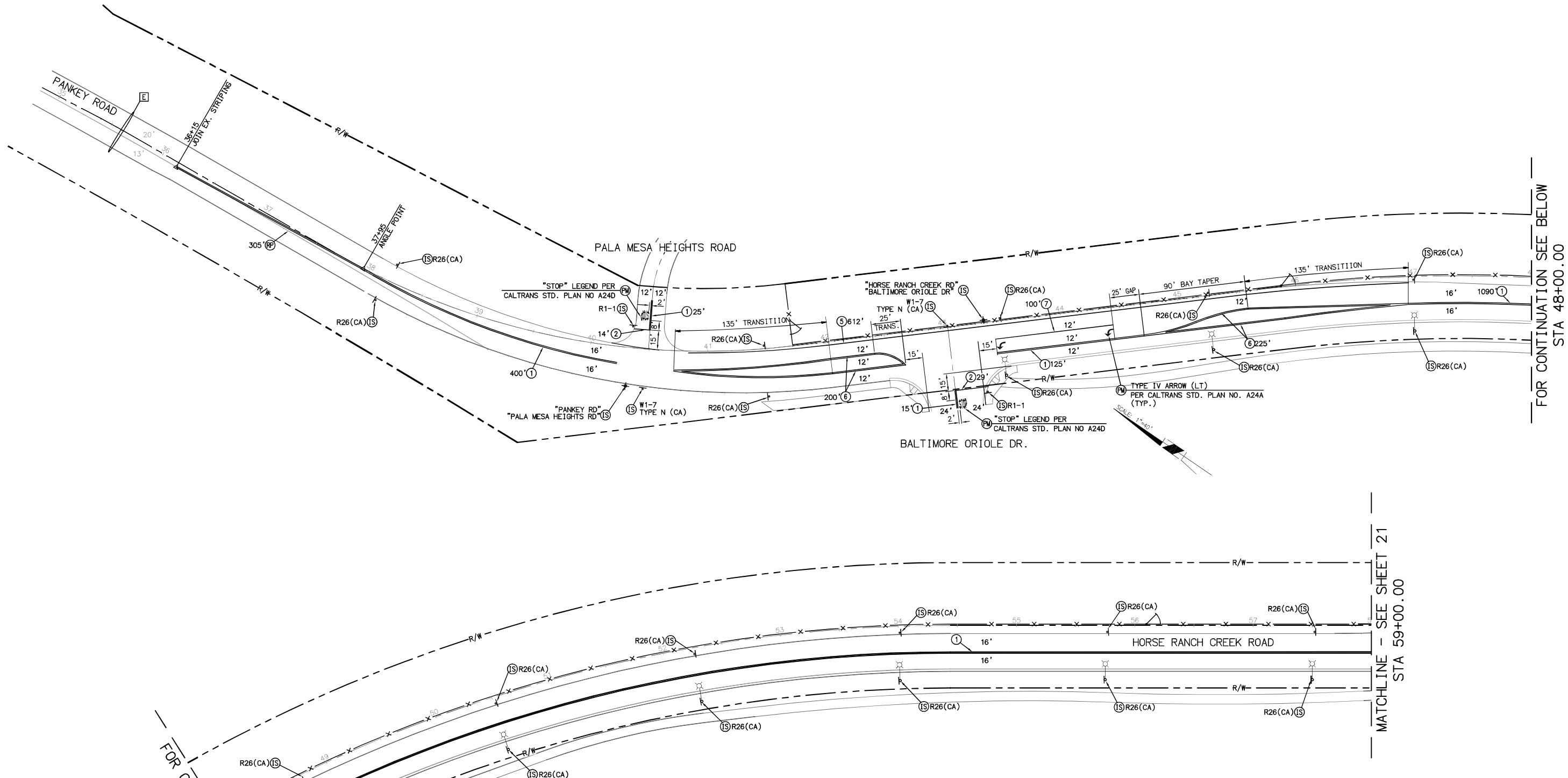
Engineer of work: EXP. 3/31/11 KEVIN VOGELSANG RCE 41213 CHECKED BY: \_\_\_\_\_ IMPROVEMENT PLAN No. CG-4718 APPROVAL DATE: \_\_\_\_\_

ENGINEER: RRF CONSULTING, INC. TELEPHONE: (619) 614-5000

IMPROVEMENT PLANS



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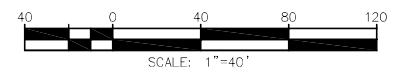
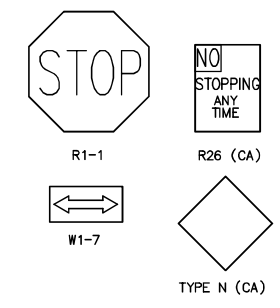
FOR CONTINUATION SEE BELOW  
STA 48+00.00

FOR CONTINUATION SEE ABOVE  
STA 48+00.00

MATCHLINE - SEE SHEET 21  
STA 59+00.00

- NOTES THIS SHEET:**  
1. FOR SIGNING/STRIPING GENERAL NOTES, SEE SHEET 23.
- STRIPING LEGEND:**  
 ① DOUBLE YELLOW LINE, STD. PLAN A20A, DETAIL 22  
 ② 12" WHITE LIMIT LINE, STD. PLAN A24E  
 ③ 4" WHITE EDGE LINE, STD. PLAN A20B, DETAIL 27B  
 ④ DOUBLE YELLOW MEDIAN LINE, STD. PLAN A20B, DETAIL 29  
 ⑤ 8" WHITE CHANNELIZING LINE, STD. PLAN A20D, DETAIL 38A  
 (PM) INSTALL WATER BASE PAINT PAVEMENT MARKING AS NOTED  
 (IS) INSTALL SIGN(S) AND POST IF REQUIRED AS NOTED  
 (R) REMOVE BY SANDBLASTING, ALL EXISTING CONFLICTING TRAFFIC STRIPING, MARKING OR ARROW AS NOTED, INCLUDING RAISED PAVEMENT MARKERS.  
 [E] EXISTING TO REMAIN  
 † PROPOSED SIGN  
 † PROPOSED SIGN (ON LIGHT POLE)  
 † PROPOSED STREET NAME SIGN PER COUNTY OF SAN DIEGO REGIONAL STANDARD DRAWING DS-13  
 12' PROPOSED LANE WIDTH  
 Δ JOIN EXISTING STRIPING / ANGLE POINT

**SIGN LEGEND:**



COUNTY APPROVED CHANGES			
NO.	DESCRIPTION	APPROVED BY	DATE

**PERMITS**

SPECIFIC PLAN NO. S\_04-054 / R\_04-019  
 NOTICE OF INTENT NO. \_\_\_\_\_  
 TENTATIVE MAP NO. L\_15299

**BENCH MARK**

DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
 LOCATION: SW 15/76  
 RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
 ELEVATION: 306.49 DATUM: USC&GS DATUM OF 1929

**PRIVATE CONTRACT**

SHEET **20** COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS SHEETS **40**

PLANS FOR THE IMPROVEMENT OF:  
**HORSE RANCH CREEK ROAD  
 SIGNING AND STRIPING**

CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)

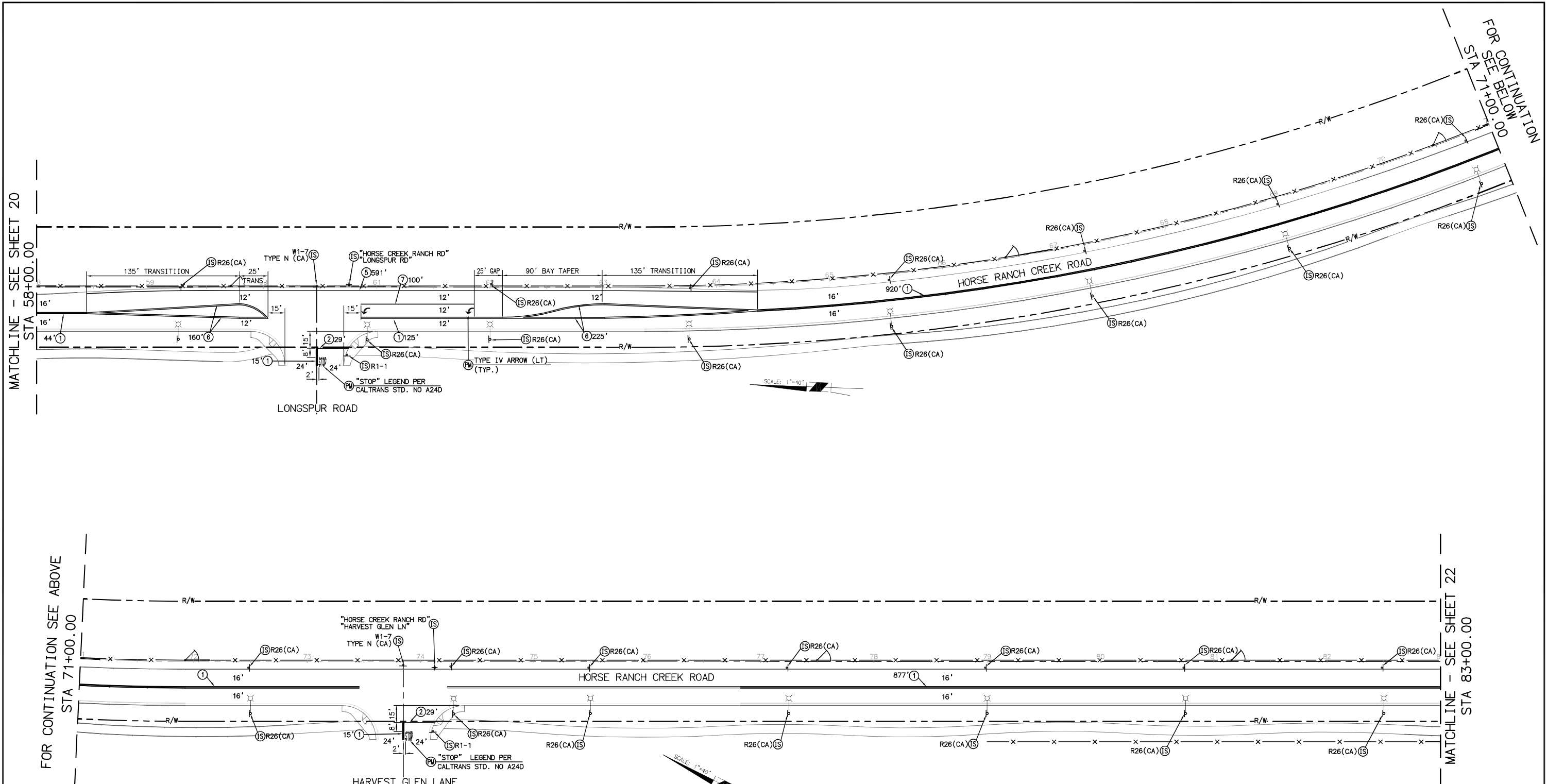
RECOMMENDED FOR APPROVAL: \_\_\_\_\_  
 APPROVED FOR: MOHAMAD FAKHRI (DINE) COUNTY ENGINEER  
 BY: \_\_\_\_\_

Engineer of work: EXP. 3/31/11  
 KEVIN VOGELSANG RCE 41213  
 APPROVAL DATE: \_\_\_\_\_  
 IMPROVEMENT PLAN NO. **CQ-4718**

**IMPROVEMENT PLANS**

ENGINEER: RFB CONSULTING, INC.  
 TELEPHONE: (858) 614-5000

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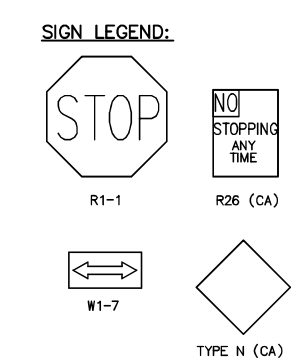


MATCHLINE - SEE SHEET 20  
STA 58+00.00

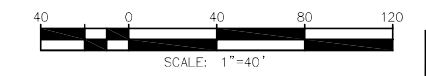
FOR CONTINUATION  
SEE BELOW  
STA 71+00.00

FOR CONTINUATION SEE ABOVE  
STA 71+00.00

MATCHLINE - SEE SHEET 22  
STA 83+00.00



- NOTES THIS SHEET:**
- FOR SIGNING/STRIPING GENERAL NOTES, SEE SHEET 23.
- STRIPING LEGEND:**
- ① DOUBLE YELLOW LINE, STD. PLAN A20A, DETAIL 22
  - ② 12" WHITE LIMIT LINE, STD. PLAN A24E
  - ③ 4" WHITE EDGE LINE, STD. PLAN A20B, DETAIL 27B
  - ④ DOUBLE YELLOW MEDIAN LINE, STD. PLAN A20B, DETAIL 29
  - ⑤ 8" WHITE CHANNELIZING LINE, STD. PLAN A20D, DETAIL 38A
  - ⑥ INSTALL WATER BASE PAINT PAVEMENT MARKING AS NOTED
  - ⑦ INSTALL SIGN(S) AND POST IF REQUIRED AS NOTED
  - ⑧ PROPOSED SIGN
  - ⑨ PROPOSED SIGN (ON LIGHT POLE)
  - ⑩ PROPOSED STREET NAME SIGN PER COUNTY OF SAN DIEGO REGIONAL STANDARD DRAWING DS-13
  - ⑪ PROPOSED LANE WIDTH



**COUNTY APPROVED CHANGES**

NO.	DESCRIPTION	APPROVED BY	DATE

**PERMITS**

SPECIFIC PLAN NO. S\_04-054 / R\_04-019  
 NOTICE OF INTENT NO. \_\_\_\_\_  
 TENTATIVE MAP NO. L\_15299

**BENCH MARK**

DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
 LOCATION: SW 15/76  
 RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
 ELEVATION: 306.49 DATUM: USC&GS DATUM OF 1929

**PRIVATE CONTRACT**

SHEET **21** COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS SHEETS **40**

PLANS FOR THE IMPROVEMENT OF:  
**HORSE RANCH CREEK ROAD  
 SIGNING AND STRIPING**

CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)

RECOMMENDED FOR APPROVAL: \_\_\_\_\_ APPROVED FOR: MOHAMAD FAKHRI (DINE) COUNTY ENGINEER

BY: \_\_\_\_\_

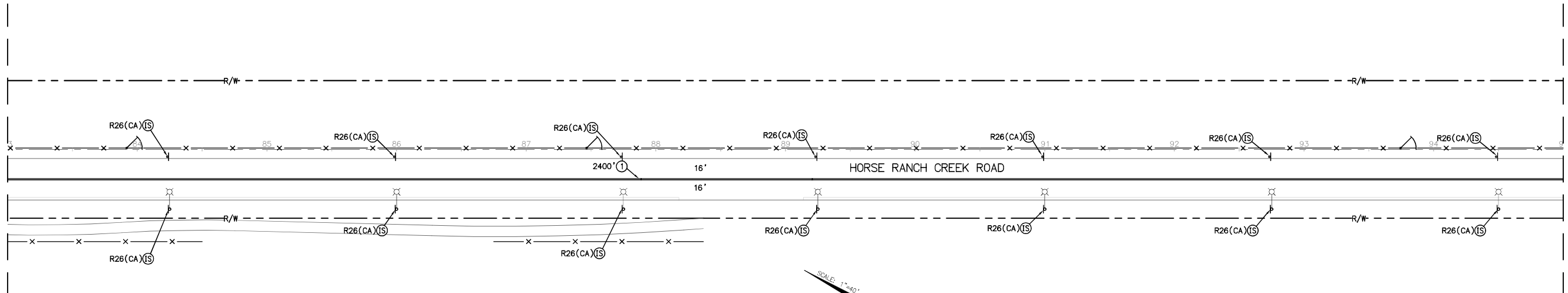
Engineer of work: EXP. 3/31/11  
 KEVIN VOGELSANG RCE 41213

CHECKED BY: \_\_\_\_\_ IMPROVEMENT PLAN No. **CQ-4718**  
 APPROVAL DATE: \_\_\_\_\_

IMPROVEMENT PLANS  
ENGINEER: RBF CONSULTING, INC. TELEPHONE: (858) 614-5000

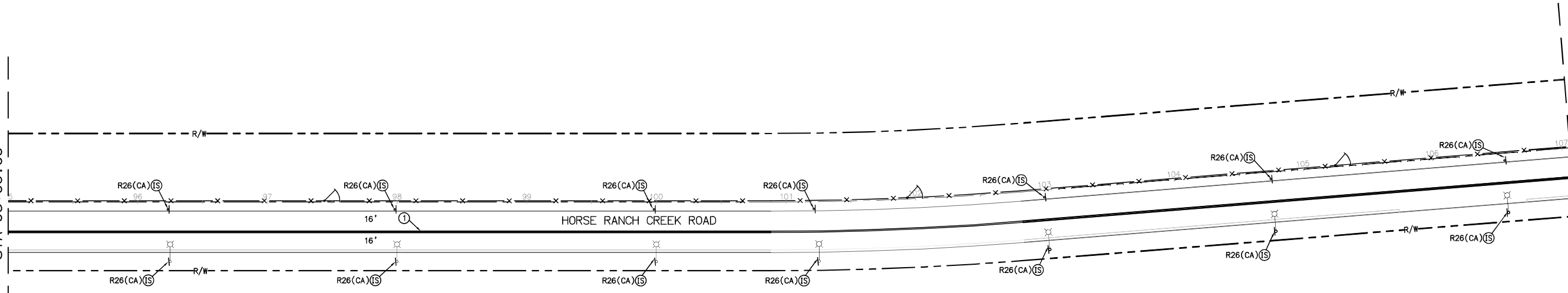
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MATCHLINE - SEE SHEET 21  
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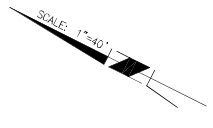
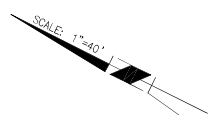


FOR CONTINUATION SEE BELOW  
STA 95+00.00

FOR CONTINUATION SEE ABOVE  
STA 95+00.00



MATCHLINE - SEE SHEET 23  
STA 107+00.00



**NOTES THIS SHEET:**

1. FOR SIGNING/STRIPING GENERAL NOTES, SEE SHEET 23.

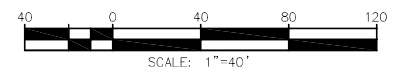
**SIGN LEGEND:**



R26 (CA)

**STRIPING LEGEND:**

- ① DOUBLE YELLOW LINE, STD. PLAN A20A, DETAIL 22
- 12' PROPOSED LANE WIDTH
- ↓ PROPOSED SIGN
- ↓ PROPOSED SIGN (ON LIGHT POLE)



COUNTY APPROVED CHANGES			
NO.	DESCRIPTION	APPROVED BY	DATE

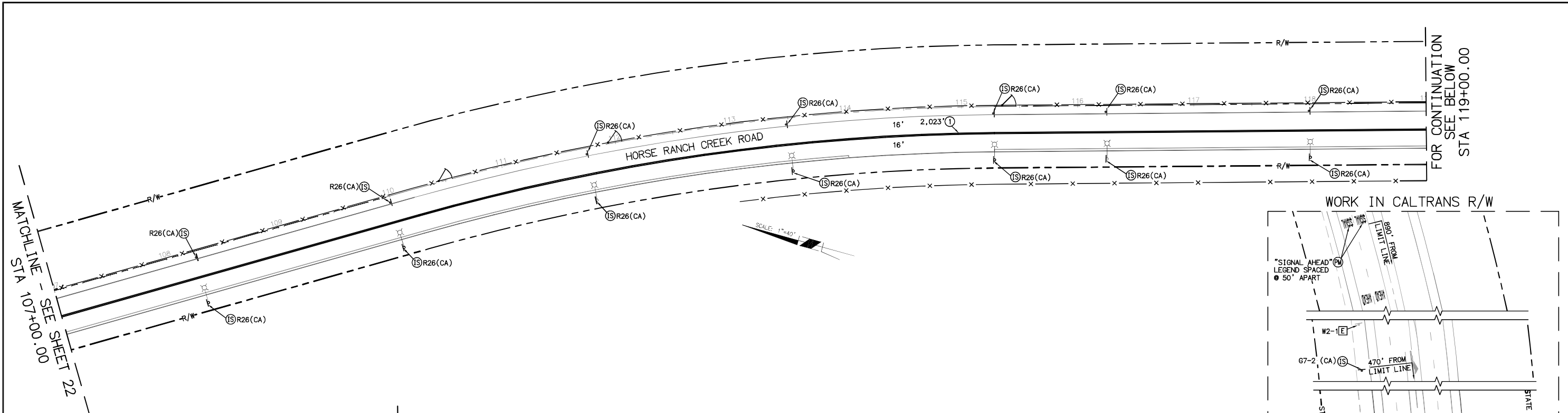
PERMITS	
SPECIFIC PLAN NO. <u>S_04-054 / R_04-019</u>	
NOTICE OF INTENT NO. _____	
TENTATIVE MAP NO. <u>L_15299</u>	
BENCH MARK	
DESCRIPTION: <u>2.25" CDOT DISC STAMPED SW 15/76 1980</u>	
LOCATION: <u>SW 15/76</u>	
RECORD FROM: <u>CALTRANS CONTROL MONUMENT DATA</u>	
ELEVATION: <u>306.49</u> DATUM: <u>USC&amp;GS DATUM OF 1929</u>	

<b>PRIVATE CONTRACT</b>		
SHEET <b>22</b>	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	<b>40</b> SHEETS
PLANS FOR THE IMPROVEMENT OF: <b>HORSE RANCH CREEK ROAD</b> SIGNING AND STRIPING		
CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)		
RECOMMENDED FOR APPROVAL:	APPROVED FOR: <u>MOHAMAD FAKHRI</u> COUNTY ENGINEER	BY:
Engineer of work: <u>EXP-3/31/11</u>	CHECKED BY:	IMPROVEMENT PLAN No. <b>CQ-4718</b>
<u>KEVIN VOGELSANG</u> RCE 41213	APPROVAL DATE:	

**IMPROVEMENT PLANS**

ENGINEER: RBF CONSULTING, INC. TELEPHONE: (858) 614-5000

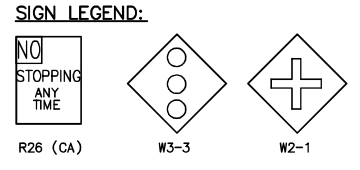
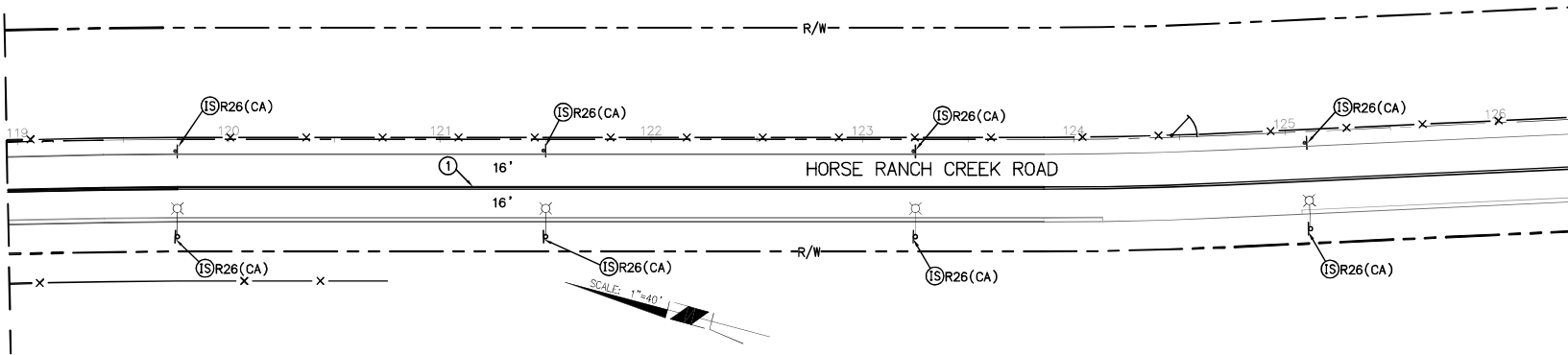
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- STRIPING LEGEND:**
- ① DOUBLE YELLOW LINE, STD. PLAN A20A, DETAIL 22
  - ② 12" WHITE LIMIT LINE, STD. PLAN A24E
  - ③ 8" WHITE CHANNELIZING LINE, STD. PLAN A20D, DETAIL 38
  - ④ 4" WHITE LANE LINE, STD. PLAN A20A, DETAIL 12
  - ⑤ 4" WHITE EDGE LINE, STD. PLAN A20B, DETAIL 27B
  - PM INSTALL WATER BASE PAINT PAVEMENT MARKING AS NOTED
  - R26 REMOVE AND SALVAGE EXISTING SIGN
  - IS R26 INSTALL SIGN(S) AND POST IF REQUIRED AS NOTED
  - S PROPOSED TRAFFIC SIGNAL
  - E EXISTING TO REMAIN.
  - 4 PROPOSED SIGN
  - 4 PROPOSED SIGN (ON LIGHT POLE)
  - 12' PROPOSED LANE
  - 12' WIDTH EXISTING LANE WIDTH

- SIGNING AND STRIPING NOTES:**
- INSTALLATION OF ALL STRIPING, SIGNS AND PAVEMENT MARKERS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
  - ALL STRIPING AND SIGNING SHALL CONFORM TO THE MOST RECENTLY ADOPTED EDITION OF THE FOLLOWING MANUALS:
    - CITY OF SAN DIEGO STANDARD DRAWINGS, INCLUDING ALL REGIONAL STANDARD DRAWINGS.
    - CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MAY 2006).
    - STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2006 EDITION (GREENBOOK).
  - ALL SIGNING AND STRIPING IS SUBJECT TO THE APPROVAL OF THE DEPT. OF PUBLIC WORKS PRIOR TO INSTALLATION AND/OR REMOVAL.
  - THE CONTRACTOR SHALL REMOVE ALL CONFLICTING STRIPING, PAVEMENT MARKINGS AND LEGENDS BY SANDBLASTING AND/OR GRINDING WITH THE SEAL. ANY DEBRIS SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.
  - SIGN POSTS SHALL BE INSTALLED WITH SQUARE PERFORATED STEEL TUBING WITH A BREAKAWAY BASE PER CITY OF SAN DIEGO STANDARDS DRAWING, M-45.
  - ALL RAISED MEDIAN NOSES SHALL BE PAINTED YELLOW.
  - ALL SIGNS SHOWN ON THE STRIPING AND SIGNING PLANS SHALL BE NEW SIGNS PROVIDED AND INSTALLED BY THE CONTRACTOR, EXCEPT FOR EXISTING SIGNS SPECIFICALLY INDICATED TO BE RELOCATED OR TO REMAIN.
  - STRIPED CROSSWALKS SHALL HAVE AN INSIDE DIMENSION OF 10 FEET UNLESS INDICATED OTHERWISE.
  - ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS (EXCEPT WITHIN BIKE LANES) SHALL BE THERMOPLASTIC.
  - THE CONTRACTOR SHALL NOTIFY THE COUNTY TRAFFIC ENGINEER AT (858) 495-4741 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO AND UPON COMPLETION OF STRIPING AND SIGNING.

FOR CONTINUATION SEE ABOVE STA 119+00.00



**STRIPING NOTES:**  
**TRAFFIC STRIPES, PAVEMENT MARKINGS, AND PAVEMENT MARKERS**

PAINTING OF TRAFFIC STRIPES (TRAFFIC LINES) AND PAVEMENT MARKINGS SHALL CONFORM TO SECTION 84-1, "GENERAL" AND 84-3, "PAINTED TRAFFIC STRIPES AND PAVEMENT MARKINGS", OF THE CALTRANS STANDARD SPECIFICATIONS AND THE FOLLOWING:

CONTROL OF THE ALIGNMENT AND LAYOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUBJECT TO APPROVAL BY THE ENGINEER. ALL NEW STRIPING AND REMOVAL OF REDUNDANT STRIPING SHALL BE DONE BY THE CONTRACTOR. STRIPING SHALL BE REMOVED BY SANDBLASTING / GRINDING AND THEN SAND SEALED PER THE ENGINEER. CONTRACTOR TO PROVIDE AND INSTALL PAVEMENT MARKERS.

SECTION 84-3.02, "MATERIALS", OF THE STANDARD SPECIFICATIONS IS AMENDED TO READ:

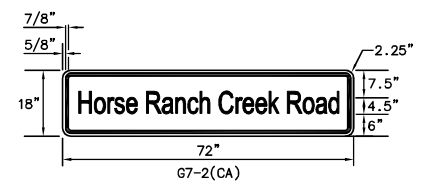
PAINT FOR TRAFFIC STRIPING SHALL BE LEAD FREE AND CONFORM TO THE LATEST STATE SPECIFICATIONS FOR RAPID DRY WATER BORNE, WHITE AND YELLOW PAINT.

GLASS BEADS SHALL CONFORM TO STATE SPECIFICATIONS NO. 8010-004 (TYPE II).

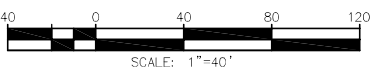
COPIES OF STATE SPECIFICATIONS FOR TRAFFIC PAINT AND GLASS BEADS MAY BE OBTAINED FROM THE TRANSPORTATION LABORATORY, P.O. BOX 19128, SACRAMENTO, CALIFORNIA, 95812, TEL. (916) 227-7000.

PAVEMENT MARKER SHALL CONFORM TO SECTION 85, "PAVEMENT MARKERS," OF THE STANDARD SPECIFICATIONS, AND THE FOLLOWING PROVISIONS:

PAVEMENT MARKER HEIGHT SHALL BE 0.70-INCH MINIMUM. "LOW PROFILE" TYPE MARKERS WILL NOT BE ACCEPTABLE.



- NOTES:**
- COLORS: BORDER & LEGEND - BLACK (NON-REFLECTIVE) BACKGROUND - YELLOW (REFLECTIVE)
  - LEGEND: 6" UC-42 LC E(M)
  - INSTALL SIGN PER STD. PLAN RS1.
  - SIGN MOUNTED ON 2-WOOD POSTS PER STD. PLAN RS2.



COUNTY APPROVED CHANGES

NO.	DESCRIPTION	APPROVED BY	DATE

**PERMITS**

SPECIFIC PLAN NO. S 04-054 / R 04-019

NOTICE OF INTENT NO. \_\_\_\_\_

TENTATIVE MAP NO. L 15299

**BENCH MARK**

DESCRIPTION: 2.25" COOT DISC STAMPED SW 15/76 1980

LOCATION: SW 15/76

RECORD FROM: CALTRANS CONTROL MONUMENT DATA

ELEVATION: 306.49    DATUM: USC&GS DATUM OF 1929

**PRIVATE CONTRACT**

SHEET 23    COUNTY OF SAN DIEGO    DEPARTMENT OF PUBLIC WORKS    SHEETS 40

PLANS FOR THE IMPROVEMENT OF:

**HORSE RANCH CREEK ROAD**  
**SIGNING AND STRIPING**

CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83)    435-1783 (CC27)

RECOMMENDED FOR APPROVAL: \_\_\_\_\_

APPROVED FOR: MOHAMAD FAKHRI (COUNTY ENGINEER)

BY: \_\_\_\_\_

Engineer of work: EXP. 3/31/11

CHECKED BY: \_\_\_\_\_

APPROVAL DATE: \_\_\_\_\_

IMPROVEMENT PLAN NO. **CQ-4718**

ENGINEER: KEVIN VOGELSANG    RCE: 41213

IMPROVEMENT PLANS

ENGINEER: RFB CONSULTING, INC. (858) 614-5000

## EROSION CONTROL NOTES

- ALL BUILDING PADS ARE TO BE DIKED AND THE DIKES MAINTAINED TO PREVENT WATER FROM FLOWING FROM THE PAD UNTIL THE STREETS AND DRIVEWAYS ARE PAVED AND WATER CAN FLOW FROM THE PADS WITHOUT CAUSING EROSION, OR CONSTRUCT DRAINAGE FACILITIES TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS THAT WILL ALLOW WATER TO DRAIN FROM THE PAD WITHOUT CAUSING EROSION.
- TOPS OF ALL SLOPES ARE TO BE DIKED OR TRENCHED TO PREVENT WATER FROM FLOWING OVER THE CREST OF THE SLOPES.
- MANUFACTURED SLOPES AND PADS SHALL BE ROUNDED VERTICALLY AND HORIZONTALLY AS APPROPRIATE TO BLEND WITH THE SURROUNDING TOPOGRAPHY.
- AS SOON AS CUTS OR EMBANKMENTS ARE COMPLETED, BUT NOT LATER THAN OCTOBER 1, ALL CUT AND FILL SLOPES SHALL BE STABILIZED WITH A HYDROMULCH MIXTURE OR AN EQUAL TREATMENT APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. BETWEEN OCTOBER 1 AND APRIL 30, APPROVED SLOPE PROTECTION MEASURES SHALL PROCEED IMMEDIATELY BEHIND THE EXPOSURE OF CUT SLOPES AND/OR THE CREATION OF EMBANKMENT SLOPES.
- CATCH BASINS, DESILTING BASINS AND STORM DRAIN SYSTEMS SHALL BE INSTALLED TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS.
- GRAVEL BAG CHECK DAMS ARE TO BE PLACED IN A MANNER APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS IN UNPAVED STREETS WITH GRADIENTS IN EXCESS OF 2% AND ON OR IN OTHER GRADED OR EXCAVATED AREAS AS REQUIRED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS.
- THE DEVELOPER TO MAINTAIN THE PLANTING AND EROSION CONTROL MEASURES DESCRIBED ABOVE UNTIL RELIEVED OF SAME BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. THE DEVELOPER TO REMOVE ALL SOIL INTERCEPTED BY THE GRAVEL BAGS, CATCH BASINS AND DESILTING BASINS AND KEEP THESE FACILITIES CLEAN AND FREE OF SALT AND SAND AND SHALL REPAIR ANY ERODED SLOPES AS DIRECTED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS.

## SILTATION AND SEDIMENT CONTROL MEASURES NOTES:

- THE SEDIMENT BASINS SHALL BE PROVIDED AT THE LOWER END OF EVERY DRAINAGE AREAPRODUCING SEDIMENT RUNOFF. THE BASINS SHALL BE MAINTAINED AND CLEANED TO DESIGN CONTOURS AFTER EVERY RUNOFF-PRODUCING STORM. THE BASINS SHOULD BE SEMI-PERMANENT STRUCTURES THAT WOULD REMAIN UNTIL SOIL STABILIZING VEGETATION HAS BECOME WELL ESTABLISHED ON ALL ERODIBLE SLOPES.
- SEDIMENTATION BASINS MAY NOT BE REMOVED OR MADE INOPERATIVE WITHOUT PRIOR APPROVAL OF THE COUNTY ENGINEER.
- UTILITY TRENCHES THAT ARE CUT THROUGH BASIN DIKES OR BASIN INLET DIKES SHALL BE PLUGGED WITH GRAVEL BAGS FROM TOP OF DIKE.
- ALL UTILITY TRENCHES SHALL BE BLOCKED AT THE PRESCRIBED INTERVALS WITH A DOUBLE ROW OF GRAVEL BAGS WITH A TOP ELEVATION THAT IS TWO GRAVEL BAGS BELOW THE GRADED SURFACE OF THE STREET. GRAVEL BAGS ARE TO BE PLACED WITH LAPPED COURSES. THE INTERVALS PRESCRIBED BETWEEN GRAVEL BAG BLOCKING SHALL DEPEND ON THE SLOPE OF GROUND SURFACE BUT SHALL NOT EXCEED THE FOLLOWING:

GRADE OF THE STREET	INTERVAL
LESS THAN 2%	200 FEET MAXIMUM
2% TO 4%	100 FEET
4% TO 10%	50 FEET
OVER 10%	25 FEET
- AFTER UTILITY TRENCHES ARE BACKFILLED AND COMPACTED, THE SURFACES OVER SUCH TRENCHES SHALL BE MOUNDING SLIGHTLY TO PREVENT CHANNELING OF WATER IN THE TRENCH AREA. CARE SHOULD BE EXERCISED TO PROVIDE FOR CROSS FLOW AT FREQUENT INTERVALS WHERE TRENCHES ARE NOT ON THE CENTERLINE OF A CROWNED STREET.
- ALL BUILDING PADS SHOULD BE SLOPED TOWARDS THE DRIVEWAYS AND VELOCITY CHECK DAMS PROVIDED AT THE BASE OF ALL DRIVEWAYS DRAINING INTO THE STREET.
- PROVIDE VELOCITY CHECK DAMS IN ALL UNPAVED GRADED CHANNELS AT THE INTERVALS INDICATED BELOW:

GRADE OF CHANNEL	INTERVALS BETWEEN CHECK DAMS
LESS THAN 3%	100 FEET
3% TO 6%	50 FEET
OVER 6%	25 FEET
- PROVIDE VELOCITY CHECK DAMS IN ALL PAVED STREET AREAS ACCORDING TO INTERVALS INDICATED BELOW. VELOCITY CHECK DAMS MAY BE CONSTRUCTED OF GRAVEL BAGS, TIMBER OR OTHER EROSION RESISTANT MATERIALS APPROVED BY THE COUNTY ENGINEER, AND SHALL EXTEND COMPLETELY ACROSS THE STREET OR CHANNEL AT RIGHT ANGLES TO THE CENTERLINE. VELOCITY CHECK DAMS MAY ALSO SERVE AS SEDIMENT TRAPS.

GRADE OF STREET	INTERVAL	NO. OF BAGS HIGH
LESS THAN 2%	AS REQUIRED, 200' MAX	1
2% TO 4%	100 FEET	1
4% TO 6%	50 FEET	1
6% TO 10%	50 FEET	2
MORE THAN 10%	25 FEET	2
- PROVIDE A GRAVEL BAG SILT BASIN OR TRAP BY EVERY STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING DRAIN SYSTEM.
- GRAVEL BAGS AND FILL MATERIAL SHALL BE STOCKPILED AT INTERVALS, READY FOR USE WHEN REQUIRED.
- ALL EROSION CONTROL DEVICES WITHIN THE DEVELOPMENT SHOULD BE MAINTAINED DURING AND AFTER EVERY RUNOFF-PRODUCING STORM, IF POSSIBLE. MAINTENANCE CREWS WOULD BE REQUIRED TO HAVE ACCESS TO ALL AREAS.
- PROVIDE ROCK RIPRAP ON CURVES AND STREET DROPS IN ALL EROSION PRONE DRAINAGE CHANNELS DOWNSTREAM FROM THE DEVELOPMENT. THIS PROTECTION WOULD REDUCE EROSION CAUSED BY THE INCREASED FLOWS THAT MAY BE ANTICIPATED FROM DENuded SLOPES, OR FROM IMPERVIOUS SURFACES.
- ANY PROPOSED ALTERNATE CONTROL MEASURES MUST BE APPROVED IN ADVANCE BY ALL RESPONSIBLE AGENCIES: I.E., COUNTY ENGINEER, DEPARTMENT OF SANITATION AND FLOOD CONTROL, OFFICE OF ENVIRONMENTAL MANAGEMENT, ETC.

GRADE OF STREET	INTERVAL	NO. OF BAGS HIGH
LESS THAN 2%	AS REQUIRED, 200' MAX	1
2% TO 4%	100 FEET	1
4% TO 6%	50 FEET	1
6% TO 10%	50 FEET	2
MORE THAN 10%	25 FEET	2

- PROVIDE A GRAVEL BAG SILT BASIN OR TRAP BY EVERY STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING DRAIN SYSTEM.
- GRAVEL BAGS AND FILL MATERIAL SHALL BE STOCKPILED AT INTERVALS, READY FOR USE WHEN REQUIRED.
- ALL EROSION CONTROL DEVICES WITHIN THE DEVELOPMENT SHOULD BE MAINTAINED DURING AND AFTER EVERY RUNOFF-PRODUCING STORM, IF POSSIBLE. MAINTENANCE CREWS WOULD BE REQUIRED TO HAVE ACCESS TO ALL AREAS.
- PROVIDE ROCK RIPRAP ON CURVES AND STREET DROPS IN ALL EROSION PRONE DRAINAGE CHANNELS DOWNSTREAM FROM THE DEVELOPMENT. THIS PROTECTION WOULD REDUCE EROSION CAUSED BY THE INCREASED FLOWS THAT MAY BE ANTICIPATED FROM DENuded SLOPES, OR FROM IMPERVIOUS SURFACES.
- ANY PROPOSED ALTERNATE CONTROL MEASURES MUST BE APPROVED IN ADVANCE BY ALL RESPONSIBLE AGENCIES: I.E., COUNTY ENGINEER, DEPARTMENT OF SANITATION AND FLOOD CONTROL, OFFICE OF ENVIRONMENTAL MANAGEMENT, ETC.

## STORMWATER PROTECTION NOTES

- DURING THE RAINY SEASON THE AMOUNT OF EXPOSED SOIL ALLOWED AT ONE TIME SHALL NOT EXCEED THAT WHICH CAN BE ADEQUATELY PROTECTED BY THE PROPERTY OWNER IN THE EVENT OF A RAINSTORM. 125% OF ALL SUPPLIES NEEDED FOR BMP (BEST MANAGEMENT PRACTICES) MEASURES SHALL BE RETAINED ON THE JOB SITE IN A MANNER THAT ASSURES FULL DEPLOYMENT AND COMPLETE INSTALLATION IN 48 HOURS OR LESS OF A FORECAST RAIN.
- NO AREA BEING DISTURBED SHALL EXCEED 50 ACRES AT ANY GIVEN TIME WITHOUT DEMONSTRATING TO THE SAN DIEGO COUNTY DPW DIRECTOR'S SATISFACTION THAT ADEQUATE EROSION AND SEDIMENT CONTROL CAN BE MAINTAINED. ANY DISTURBED AREA THAT IS NOT ACTIVELY GRADED FOR 10 DAYS MUST BE FULLY PROTECTED FROM EROSION. UNTIL ADEQUATE LONG-TERM PROTECTIONS ARE INSTALLED, THE DISTURBED AREA SHALL BE INCLUDED WHEN CALCULATING THE ACTIVE DISTURBANCE AREA. ALL EROSION CONTROL MEASURES SHALL REMAIN INSTALLED AND MAINTAINED DURING ANY INACTIVE PERIOD.

## STORMWATER PROTECTION NOTES (CONT.)

- THE PROPERTY OWNER IS OBLIGATED TO INSURE COMPLIANCE WITH ALL APPLICABLE STORMWATER REGULATIONS AT ALL TIMES. THE BMP'S THAT HAVE BEEN INCORPORATED INTO THIS PLAN SHALL BE IMPLEMENTED AND MAINTAINED TO EFFECTIVELY PREVENT THE POTENTIALLY NEGATIVE IMPACTS OF THIS PROJECT'S CONSTRUCTION ACTIVITIES ON STORMWATER QUALITY. THE MAINTENANCE OF THE BMP'S IS THE PERMITTEE'S RESPONSIBILITY, AND FAILURE TO PROPERLY INSTALL OR MAINTAIN THE BMP'S MAY RESULT IN ENFORCEMENT ACTION BY THE COUNTY OF SAN DIEGO OR OTHERS. IF INSTALLED BMP'S FAIL, THEY MUST BE REPAIRED OR REPLACED WITH AN ACCEPTABLE ALTERNATIVE WITHIN 24 HOURS, OR AS SOON AS SAFE TO DO SO.
- ON PROJECTS OF GREATER THAN 1 ACRE, A NOTICE OF INTENT (NOI) MUST BE FILED WITH THE STATE WATER RESOURCES CONTROL BOARD (SWRCB) AND A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) MUST BE PREPARED IN ACCORDANCE WITH THE REQUIREMENT OF CALIFORNIA GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (PERMIT NO. 333) FOR ALL OPERATIONS ASSOCIATED WITH THESE PLANS. IF APPLICABLE, THE NON NUMBER ASSIGNED BY SWRCB FOR THIS PROJECT IS 3000. THE PERMITTEE SHALL KEEP A COPY OF THE SWPPP ON SITE AND AVAILABLE FOR REVIEW BY COUNTY.

## NEW (AUG. 2001) SOIL STABILIZATION RULES

- FLAT AREAS OF LESS THAN 5% (LIKE BUILDING PADS, PARKING AREAS, LEACH FIELDS) SHALL HAVE 100% PROTECTION USING GEOTEXTILES, MATS (SS-7 OR ECS22), OR OTHER MATERIAL APPROVED BY THE COUNTY FOR STABILIZING SLOPES, OR USING TRACKING AND SOIL STABILIZERS/BINDERS (SS-5), TEMPORARY SEEDING (SS-4), MULCH/WOOD CHIPS (SS-3, SS-6, SS-8), OR JUTE MATTING (SS-7). THE COUNTY MAY REDUCE THIS REQUIREMENT FOR FLAT AREAS AND THE BELOW REQUIREMENT, PROVIDED FULL SEDIMENT CONTROL IS PROVIDED THROUGH CONSTRUCTED AND MAINTAINED DESILTING BASINS (SC-2) AT ALL PROJECT DISCHARGE POINTS.
- AREAS OF GRADED PADS THAT HAVE ACTIVE STRUCTURE CONSTRUCTION UNDERWAY MAY BE PROTECTED BY ROLLED PLASTIC AS PART OF A WEATHER-TRIGGERED ACTION PLAN UNTIL THE STRUCTURE'S ROOF HAS BEEN COMPLETED. THE REMAINDER OF THE PAD AREA MUST CONTINUE TO BE PROTECTED USING EROSION CONTROL MEASURES IDENTIFIED ABOVE.
- UNPAVED ROADS ARE EXEMPT FROM THE 100% PROTECTION REQUIREMENT BUT SHALL HAVE APPROPRIATE BMP'S INSTALLED SUCH AS GRAVEL BAG CHEVRONS.
- USE BONDED FIBER MATRIX OR STABILIZED FIBER MATRIX FOR PAD STABILIZATION IF TIME OF YEAR DOES NOT ALLOW THE USE OF HYDROSEED.

## HYDROSEED NOTES

PHYSICAL STABILIZATION THROUGH USE OF GEOTEXTILES, MATS, FIBER ROLLS (SS-7 OR ECS22), BONDED FIBER MATRIX OR OTHER MATERIAL APPROVED BY THE COUNTY FOR STABILIZING SLOPES OR VEGETATION STABILIZATION USING HYDROSEED (SS-4 OR ECS10) OR ACCEPTABLE LANDSCAPING MAY BE USED ONLY MAY 1 TO AUGUST 15. VEGETATION PROPOSED TO STABILIZE SLOPES MUST BE INSTALLED BY AUGUST 15, WATERED AND ESTABLISHED PRIOR TO OCTOBER 1. THE PROPERTY OWNER SHALL SHOW ON THE PLAN A CONTINGENCY PHYSICAL BMP TO BE INSTALLED BY OCTOBER 1 IF HYDROSEED ESTABLISHMENT DOES NOT OCCUR BY THAT DATE. IF LANDSCAPING IS PROPOSED, EROSION CONTROL MEASURES MUST ALSO BE USED WHILE LANDSCAPING IS BEING ESTABLISHED. ESTABLISHED VEGETATION SHALL HAVE A SUBSURFACE MAT OF INTERTWINED NATURE ROOTS WITH A UNIFORM VEGETATIVE COVERAGE OF 70 PERCENT OF THE NATURAL VEGETATIVE COVERAGE OR MORE ON ALL DISTURBED AREAS.

ALL MANUFACTURED SLOPES AND CLEARED SLOPES OF 3 TO 1 (HORIZONTAL TO VERTICAL) AND STEEPER ARE TO BE PROTECTED WITH A BMP APPROVED BY THE COUNTY OF SAN DIEGO, AS DESCRIBED IN NUMBER 1 AND 2 ABOVE. CLEARED SLOPES FLATTER THAN 3 TO 1 MUST STILL BE PROTECTED FROM EROSION USING EITHER AN APPROVED BMP OR BY USING HYDROMULCH WITH A GUAR BINDER. FLAT AREAS OF LESS THAN 5% (LIKE BUILDING PADS, PARKING AREAS, LEACH FIELDS) SHALL HAVE 100% PROTECTION USING GEOTEXTILES, MATS (SS-7 OR ECS22), OR OTHER MATERIAL APPROVED BY THE COUNTY FOR STABILIZING SLOPES, OR USING TRACKING AND SOIL STABILIZERS/BINDERS (SS-5), TEMPORARY SEEDING (SS-4), MULCH/WOOD CHIPS (SS-3, SS-6, SS-8), OR JUTE MATTING (SS-7). THE COUNTY MAY REDUCE THIS REQUIREMENT FOR FLAT AREAS AND THE BELOW REQUIREMENT, PROVIDED FULL SEDIMENT CONTROL IS PROVIDED THROUGH CONSTRUCTED AND MAINTAINED DESILTING BASINS (SC-2) AT ALL PROJECT DISCHARGE POINTS.

## BONDED FIBER MATRIX (BFM)

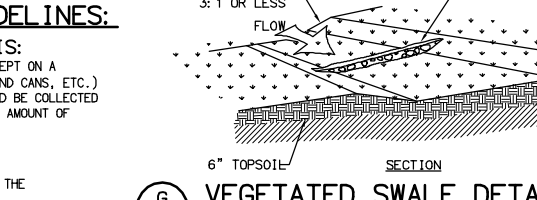
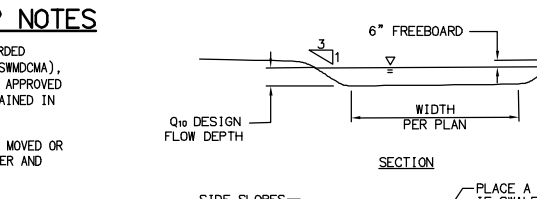
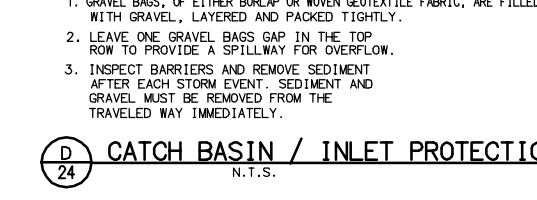
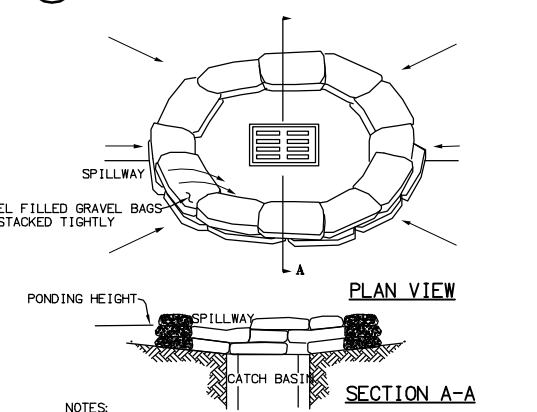
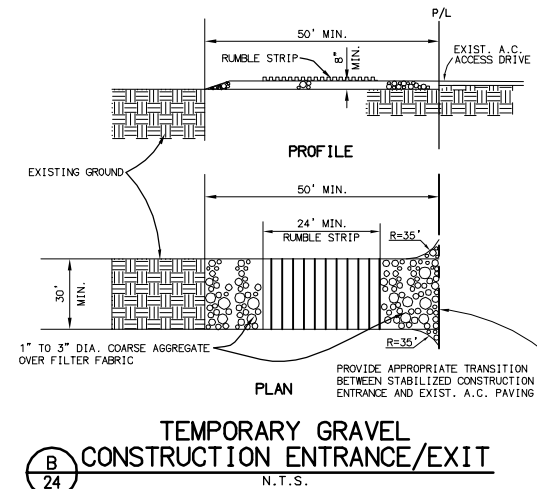
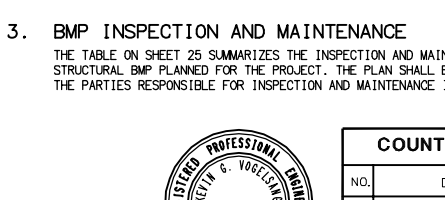
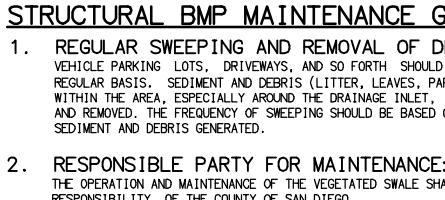
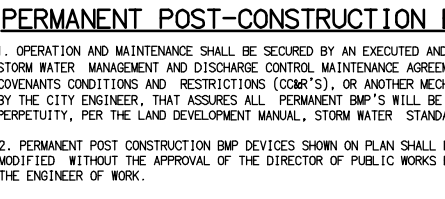
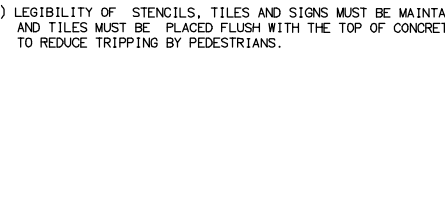
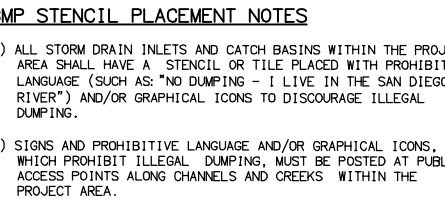
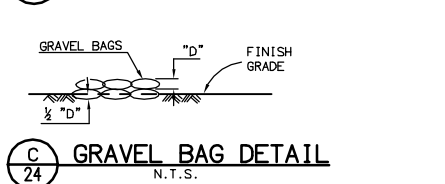
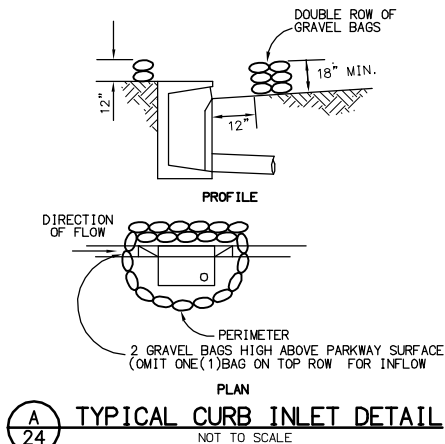
THE USE OF BFM IS SUBJECT TO THE FOLLOWING LIMITATIONS AND RESTRICTIONS:

- APPLICATION RATES SHALL BE 3500 POUNDS PER ACRE MINIMUM FOR 2:1 OR SHALLOWER SLOPES AND 4000 POUNDS PER ACRE FOR SLOPES STEEPER THAN 2:1
- BFM SHALL BE APPLIED AT LEAST 24 HOURS BEFORE OR AFTER RAINFALL.
- THE SITE MUST BE PROTECTED WITH BROW DITCHES AND / OR DIVERSION BERMS AT THE TOP OF SLOPES TO DIVERT FLOW FROM THE FACE OF THE SLOPE.
- BFM SHALL BE APPLIED TO PROVIDE 100% COVERAGE (IE APPLICATION FROM MULTIPLE ANGLES).
- FOR PERMANENT EROSION CONTROL PURPOSES, BFM MUST BE INSTALLED IN CONJUNCTION WITH SEEDED EROSION CONTROL VEGETATION.
- A LETTER FROM THE HYDROSEED CONTRACTOR CERTIFYING THAT THE BFM HAS BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED APPLICATION RATES AND COVERAGE REQUIREMENTS SHALL BE SUBMITTED TO THE COUNTY INSPECTOR FOR APPROVAL.

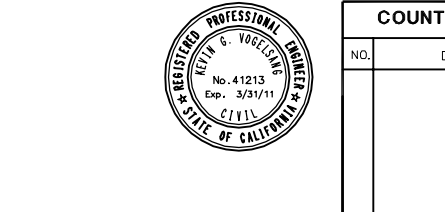
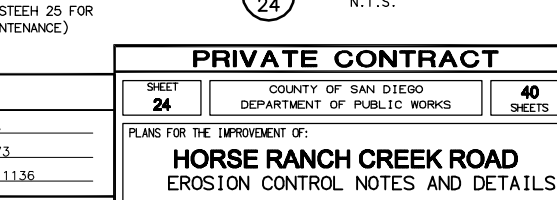
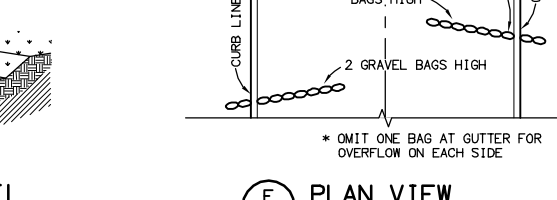
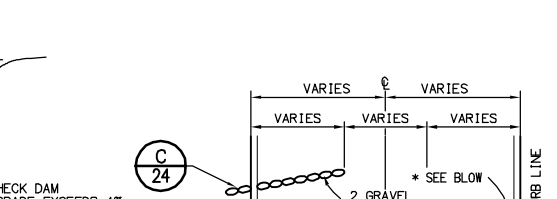
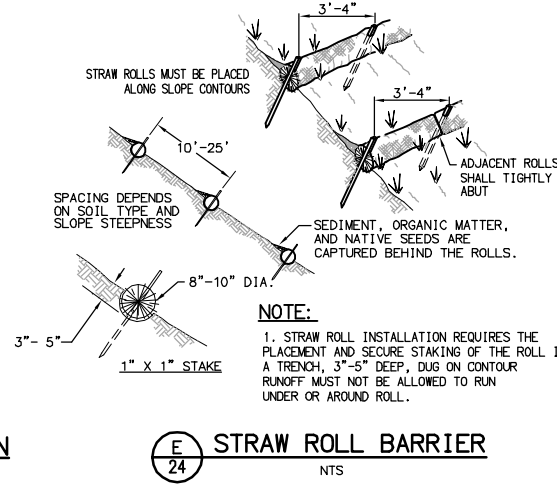
## STABILIZED FIBER MATRIX (SFM)

THE USE OF SFM IS SUBJECT TO THE FOLLOWING LIMITATIONS AND RESTRICTIONS:

- SFM MAY BE USED FOR TEMPORARY EROSION CONTROL FOR DISTURBED AREAS, INCLUDING PAD AND SEPTIC FIELD AREAS.
- THE SFM SHALL BE APPLIED AT LEAST 24 HOURS BEFORE OR AFTER RAINFALL AND SHALL BE APPLIED TO PROVIDE 100% COVERAGE (I.E. APPLIED FROM MULTIPLE DIRECTIONS AND ANGLES).
- THE APPLICATION AREA MUST BE PROTECTED BY BROW DITCHES AND OR DIVERSION BERMS AT TOP OF SLOPES TO DIVERT FLOW FROM THE FACE OF THE PROTECTED SLOPE.
- FOR PERMANENT EROSION CONTROL PURPOSES, SFM MUST BE INSTALLED IN CONJUNCTION WITH SEEDED EROSION CONTROL VEGETATION OR HAND PLANTINGS. AS WITH ALL OTHER APPLICATIONS, SFM WILL NOT BE CONSIDERED PERMANENT UNTIL 70% VEGETATION ESTABLISHMENT.
- COVERAGE AND CONCENTRATION FOR EACH ACRE COVERED, THE MINIMUM APPLICATION VOLUME SHALL BE 10 GALLONS NON-TOXIC WATER-PERMEABLE SOIL-STABILIZING LIQUID EMULSION WITH 3,000 LBS. OF HYDRAULIC MULCH. THE EMULSION MUST BE DESIGNED TO PROTECT SOIL, PREVENT EROSION, AND FLOCCULATE (CLUMP) SEDIMENT.
- A LETTER FROM THE HYDROSEED CONTRACTOR CERTIFYING THE SFM WAS INSTALLED IN ACCORDANCE WITH APPROVED APPLICATION RATES, COVERAGE, AND MANUFACTURER'S DILUTION RATION SHALL BE SUBMITTED TO THE COUNTY INSPECTOR FOR APPROVAL.



LEGEND		
ITEM	STANDARD DRAWING	SYMBOL
PROPOSED CATCH BASIN	D-29	[Symbol]
STRAW ROLL BARRIER	E-24	[Symbol]
VEGETATED SWALE	G-24	[Symbol]
CATCH BASIN/INLET PROTECTION (SC-10)	A-24, D-24	[Symbol]
STABILIZED CONSTRUCTION ENTRANCE PER REF. DOC. 1	B-24	[Symbol]
CONCRETE WASHOUT AREA		[Symbol]
MATERIAL DELIVERY AND STORAGE		[Symbol]
SOLID WASTE MANAGEMENT		[Symbol]
STOCKPILE MANAGEMENT		[Symbol]
HYDROSEEDED W/BFM		[Symbol]
GRAVEL BAGS	C-24	[Symbol]
SILT FENCE	SE-1	[Symbol]



COUNTY APPROVED CHANGES			
NO.	DESCRIPTION	APPROVED BY	DATE

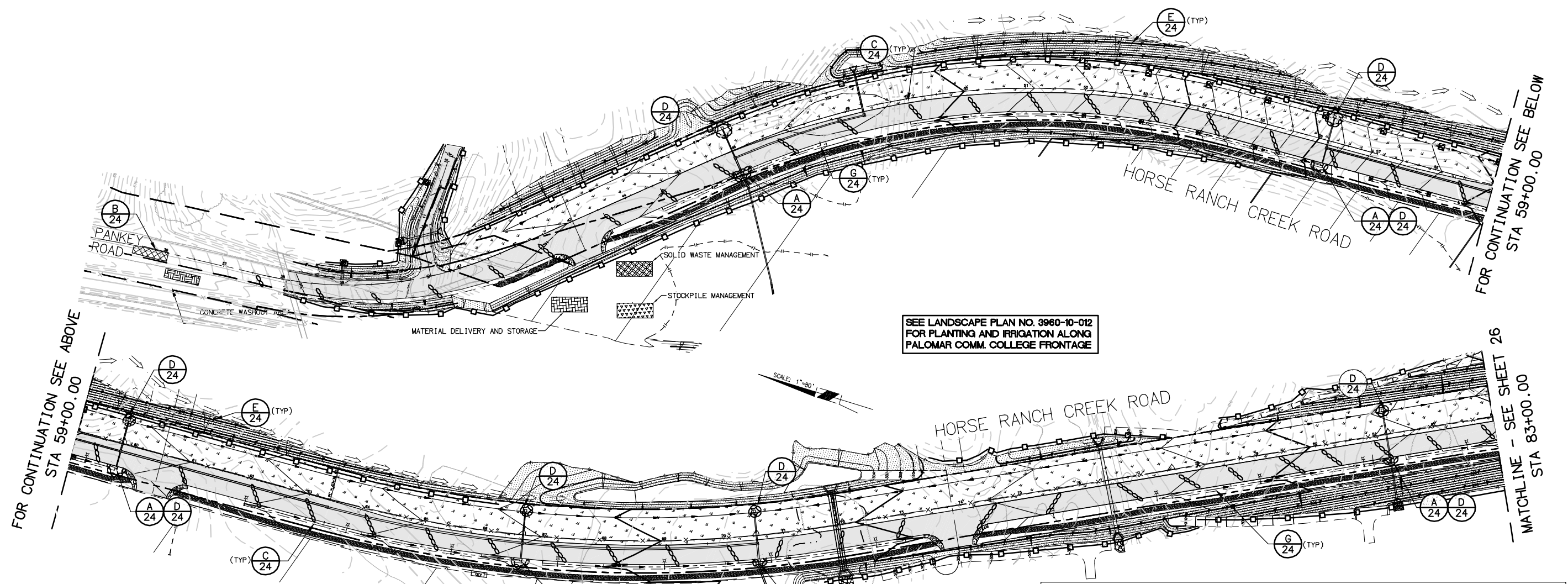
PERMITS			
SPECIFIC PLAN NO.	UY 4718_GPA-09-006		
NOTICE OF INTENT NO.	WID# 9 37C358873		
	UY 4718_SCH#2007011136		
BENCH MARK			
DESCRIPTION:	2.25" CDOT DISC STAMPED SW 15/76 1980		
LOCATION:	SW 15/76		
RECORD FROM:	CALTRANS CONTROL MONUMENT DATA		
ELEVATION:	306.49	DATUM:USC&GS DATUM OF 1929	

PRIVATE CONTRACT			
SHEET 24	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	40 SHEETS	
PLANS FOR THE IMPROVEMENT OF: <b>HORSE RANCH CREEK ROAD</b> EROSION CONTROL NOTES AND DETAILS			
CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)			
RECOMMENDED FOR APPROVAL:	APPROVED FOR: MOHAMAD FAKHRUDDINE COUNTY ENGINEER		
BY:			
Engineer of work: EXP. 3/31/11	CHECKED BY:	IMPROVEMENT PLAN NO. CG-4718	
KEVIN VOGELSANG RCE 41213	APPROVAL DATE:		

RFB CONSULTING, INC. ENGINEER TELEPHONE: (656) 614-5000

IMPROVEMENT PLANS





SEE LANDSCAPE PLAN NO. 3960-10-012 FOR PLANTING AND IRRIGATION ALONG PALOMAR COMM. COLLEGE FRONTAGE

SCALE: 1"=80'

**HYDROSEED LEGEND**

SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY
<b>ROAD TEMPORARY EROSION CONTROL HYDROSEED</b>			
[Symbol]	ESCHSCHOLZIA CALIFORNICA	CALIFORNIA POPPY	2.00
	HEMIZONIA FASCICULATA	FASCICLED TARWEED	1.00
	LATHENIA CALIFORNICA	DWARF GOLDIELDS	1.00
	PHACELIA CAMPANULARIA	CALIFORNIA BLUEBELLS	2.00
	PLANTAGO INSULARIS	PLANTAIN	15.00
	TRIFOLIUM HIRTUM	ROSE CLOVER	20.00
	VULPIA MICROSTACHYS	SMALL FESCUE	8.00
TOTAL POUNDS OF PURE LIVE SEED PER ACRE = 49.0			
<b>SLOPE EROSION CONTROL HYDROSEED</b>			
[Symbol]	ARTEMISIA CALIFORNICA	CALIFORNIA SAGEBRUSH	2.00
	BACCHARIS PILULARIS	COYOTE BRUSH	3.00
	ESCHSCHOLZIA CALIFORNICA	CALIFORNIA POPPY	1.00
	ERIOGONUM FASCICULATUM FOLIOLOSUM	CALIFORNIA BUCKWHEAT	1.00
	ERLOPHYLLUM CONFERTIFLORUM	GOLDEN YARROW	1.00
	HEMIZONIA FASCICULATA	FASCICLED TARWEED	1.00
	LOTUS SCOPARIUS BREVIALATUS	DEERWEED	4.00
	WIMULUS AURANTIACUS PUNICEUS	STICKY MONKEYFLOWER	0.10
	MUHLENBERGIA MICROSPERMA	LITTLESEED MUHLY	2.00
	NASSELLA PULCHRA	PURPLE NEEDLEGRASS	5.00
	PHACELIA CAMPANULARIA	CALIFORNIA BLUEBELLS	1.00
	SALVIA APJANA	WHITE SAGE	1.50
	SALVIA MELLIFERA	BLACK SAGE	2.50
	VULPIA MICROSTACHYS	SMALL FESCUE	8.00
TOTAL POUNDS OF PURE LIVE SEED PER ACRE = 33.1			
INCLUDE IN EACH HYDROSEED MIX ABOVE			LBS/ACRE
CONWED 1000 WOOD FIBER MULCH			2000
ECOLOGY CONTROLS M-BINDER/TACK			200
BIOSOL MIX 7-2-3 ORGANIC FERTILIZER			800
AM 120 MYCORRHIZAL INOCULUM			60

**MAINTENANCE NOTE:**  
 APPLICANT MUST MAINTAIN ALL DISTURBED AREAS FOR A PERIOD OF TWO YEARS FROM INSTALLATION OF PLANTING/HYDROSEED. AT THE EXPIRATION OF THE TWO YEAR PERIOD THE COUNTY OF SAN DIEGO SHALL ASSUME MAINTENANCE RESPONSIBILITY IF NO OTHER MECHANISM IS IN PLACE.

**TABLE 1 TYPICAL MAINTENANCE PROGRAM FOR VEGETATED SWALES**

INSPECTION FREQUENCY INDICATIONS:		FIRST YEAR
		<input type="checkbox"/> BEFORE WET SEASON BEGINS (OCTOBER)
		<input type="checkbox"/> AFTER RAINFALL EVENTS GREATER THAN 0.5 INCHES
		<input type="checkbox"/> AFTER WET SEASON (MAY)
		SUBSEQUENT YEARS:
		<input type="checkbox"/> BEFORE WET SEASON BEGINS(OCTOBER)
MAINTENANCE INDICATIONS		MAINTENANCE ACTIVITIES
<input type="checkbox"/> DAMAGE TO SLOPES, INLET, OUTLET, OR OTHER STRUCTURES		<input type="checkbox"/> REPAIR SLOPES, INLET, OUTLET, OR OTHER STRUCTURES
<input type="checkbox"/> BARREN AREAS OR BADLY ESTABLISHED VEGETATION		<input type="checkbox"/> REPLANT OR RE-SEED BARREN AREAS OR BADLY ESTABLISHED VEGETATION, USE EROSION CONTROL MATS IF NECESSARY
<input type="checkbox"/> OVERGROWN VEGETATION, EMERGENT WOODY VEGETATION AND/OR WEEDS		<input type="checkbox"/> TRIM VEGETATION TO 6 INCHES, REMOVE EMERGENT WOODY VEGETATION AND WEEDS
<input type="checkbox"/> SEDIMENT ACCUMULATION OVER 3 INCHES		<input type="checkbox"/> REMOVE SEDIMENT ACCUMULATION AT INLETS
<input type="checkbox"/> TRASH AND LITTER PRESENT IN SWALE		<input type="checkbox"/> REMOVE TRASH AND DEBRIS
<input type="checkbox"/> RODENT BURROWS THAT INHIBIT FUNCTION OF FACILITY		<input type="checkbox"/> ABATE RODENTS AND OTHER VECTORS AS NECESSARY
<input type="checkbox"/> STANDING WATER IN FACILITY		<input type="checkbox"/> DRAIN STANDING WATER AND CLEAN OUT PERFORATED PIPE

NOTES:  
 1. PURE LIVE SEED (PLS) POUNDS PER ACRE DOES NOT EQUAL POUNDS PER ACRE. PLS% = %PURITY X %GERMINATION.  
 2. SEED, WOOD FIBER MULCH, BINDER, FERTILIZER, AND INOCULUM ARE AVAILABLE FROM S & S SEEDS (805-684-0436) OR APPROVED EQUAL.



**COUNTY APPROVED CHANGES**

NO.	DESCRIPTION	APPROVED BY	DATE

**PERMITS**

SPECIFIC PLAN NO. UY 4718\_GPA-09-006  
 NOTICE OF INTENT NO. WDI# 9 37C358873  
 UY 4718\_SCH#2007011136

**BENCH MARK**

DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
 LOCATION: SW 15/76  
 RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
 ELEVATION: 306.49 DATUM: USC&GS DATUM OF 1929

**PRIVATE CONTRACT**

SHEET 25	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	40 SHEETS
PLANS FOR THE IMPROVEMENT OF: <b>HORSE RANCH CREEK ROAD</b> EROSION CONTROL & BMP TREATMENT PLANS		
CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)		
RECOMMENDED FOR APPROVAL:	APPROVED FOR: MOHAMAD FAKHRI/ENGINEER COUNTY ENGINEER	BY:
Engineer of work: EXP. 3/31/11	CHECKED BY:	IMPROVEMENT PLAN No. CG-4718
KEVIN VOGELSANG RCE 41213	APPROVAL DATE:	

H:\IPDATA\25102702\CADD\LAND\LD\V\STREET IMPROVEMENTS\EROSION CONTROL\2702-EC-026.DWG AROCHA 10/25/2010 2:24 PM

MATCHLINE - SEE SHEET 25  
STA 83+00.00

FOR CONTINUATION SEE BELOW  
STA 107+00.00

HORSE RANCH CREEK ROAD

SEE LANDSCAPE PLAN NO. 3960-10-012  
FOR PLANTING AND IRRIGATION ALONG  
PALOMAR COMM. COLLEGE FRONTAGE

FOR CONTINUATION SEE ABOVE  
STA 107+00.00

HORSE RANCH CREEK ROAD

CONCRETE WASHOUT AREA

PAI'A ROAD  
SR-76

CALTRANS  
R/M

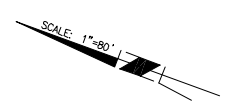
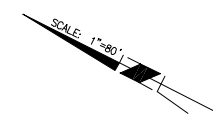
**HYDROSEED LEGEND**

SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY
<b>ROAD TEMPORARY EROSION CONTROL HYDROSEED</b>			
[Symbol]	ESCHSCHOLZIA CALIFORNICA	CALIFORNIA POPPY	2.00
	HEMIZONIA FASCICULATA	FASCICLED TARWEED	1.00
	LASTHENIA CALIFORNICA	DWARF GOLDFIELDS	1.00
	PHACELIA CAMPANULARIA	CALIFORNIA BLUEBELLS	2.00
	PLANTAGO INSULARIS	PLANTAIN	15.00
	TRIFOLIUM HIRTUM	ROSE CLOVER	20.00
	VULPIA MICROSTACHYS	SMALL FESCUE	8.00
TOTAL POUNDS OF PURE LIVE SEED PER ACRE = 49.0			
<b>SLOPE EROSION CONTROL HYDROSEED</b>			
[Symbol]	ARTEMISIA CALIFORNICA	CALIFORNIA SAGEBRUSH	2.00
	BACCHARIS PILULARIS	COYOTE BRUSH	3.00
	ESCHSCHOLZIA CALIFORNICA	CALIFORNIA POPPY	1.00
	ERIOGONUM FASCICULATUM FOLIOLOSUM	CALIFORNIA BUCKWHEAT	1.00
	ERIOPHYLLUM CONFERTIFLORUM	GOLDEN YARROW	1.00
	HEMIZONIA FASCICULATA	FASCICLED TARWEED	1.00
	LOTUS SCOPARIUS BREVIALATUS	DEERWEED	4.00
	MIMULUS AURANTIACUS PUNICEUS	STICKY MONKEYFLOWER	0.10
	MULLENBERGIA MICROSPERMA	LITTLESEED MUFLY	2.00
	NASSELLA PULCHRA	PURPLE NEEDLEGRASS	5.00
	PHACELIA CAMPANULARIA	CALIFORNIA BLUEBELLS	1.00
	SALVIA APIANA	WHITE SAGE	1.50
	SALVIA MELLIFERA	BLACK SAGE	2.50
	VULPIA MICROSTACHYS	SMALL FESCUE	8.00
TOTAL POUNDS OF PURE LIVE SEED PER ACRE = 33.1			
INCLUDE IN EACH HYDROSEED MIX ABOVE			LBS/ACRE
CONWED 1000 WOOD FIBER MULCH			2000
ECOLOGY CONTROLS M-BINDER/TACK			200
BIOSOL MIX 7-2-3 ORGANIC FERTILIZER			800
AM 120 MYCORRHIZAL INOCULUM			60

\*NO SLOPE  
CORRECTION  
FACTOR WAS  
ADDED FOR  
SLOPES

**NOTES:**

- PURE LIVE SEED (PLS) POUNDS PER ACRE DOES NOT EQUAL POUNDS PER ACRE. PLS% = %PURITY X %GERMINATION.
- SEED, WOOD FIBER MULCH, BINDER, FERTILIZER, AND INOCULUM ARE AVAILABLE FROM S & S SEEDS (805-684-0436) OR APPROVED EQUAL.



**MAINTENANCE NOTE:**

APPLICANT MUST MAINTAIN ALL DISTURBED AREAS FOR A PERIOD OF TWO YEARS FROM INSTALLATION OF PLANTING/HYDROSEED. AT THE EXPIRATION OF THE TWO YEAR PERIOD THE COUNTY OF SAN DIEGO SHALL ASSUME MAINTENANCE RESPONSIBILITY IF NO OTHER MECHANISM IS IN PLACE.



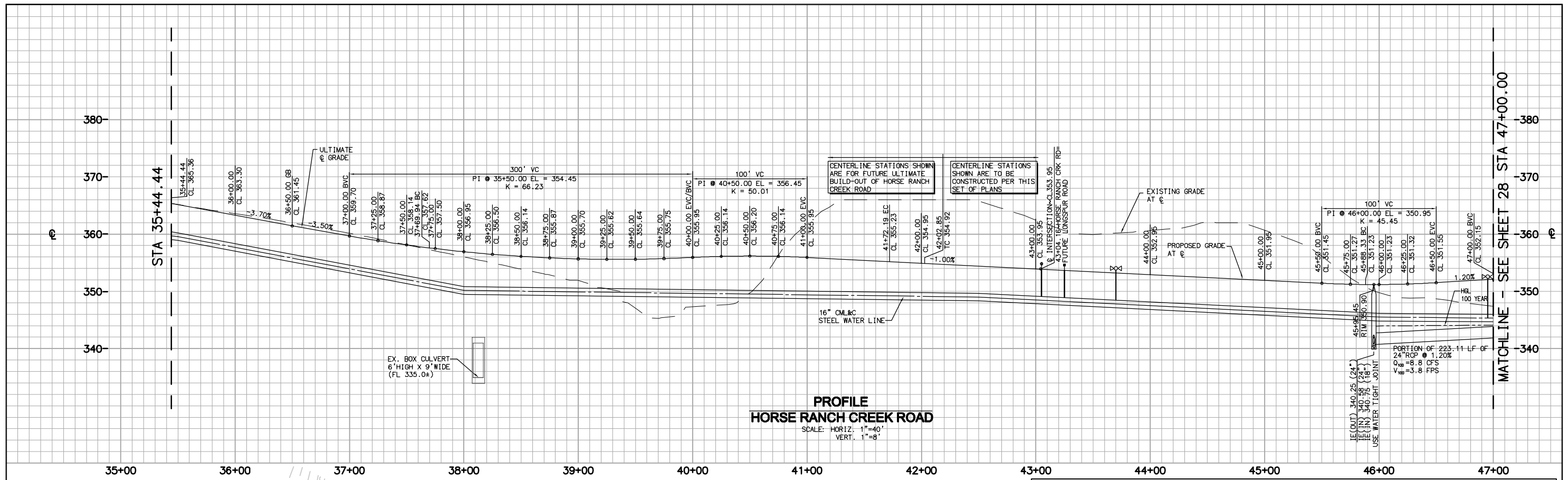
COUNTY APPROVED CHANGES			
NO.	DESCRIPTION	APPROVED BY	DATE

PERMITS	
SPECIFIC PLAN NO.	UY 4718_GPA-09-006
NOTICE OF INTENT NO.	WDID# 9 37C358873
	UY 4718_SCH#2007011136
BENCH MARK	
DESCRIPTION:	2.25" CDOT DISC STAMPED SW 15/76 1980
LOCATION:	SW 15/76
RECORD FROM:	CALTRANS CONTROL MONUMENT DATA
ELEVATION:	306.49 DATUM:USC&GS DATUM OF 1929

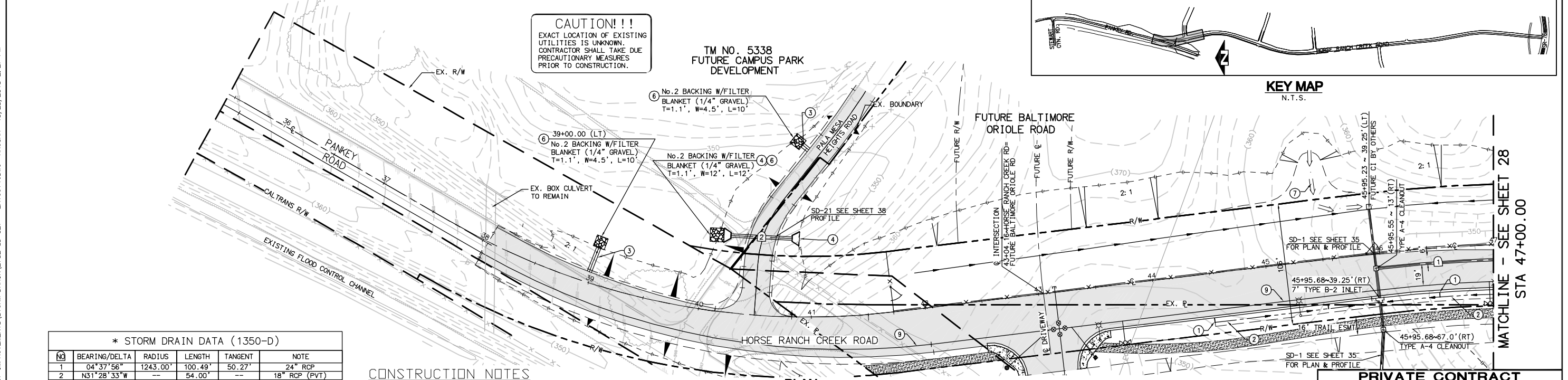
PRIVATE CONTRACT			
SHEET <b>28</b>	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	<b>40</b> SHEETS	
PLANS FOR THE IMPROVEMENT OF: <b>HORSE RANCH CREEK ROAD</b> EROSION CONTROL & BMP TREATMENT PLANS			
CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)			
RECOMMENDED FOR APPROVAL:	APPROVED FOR: MOHAMAD FAKHRIDDINE COUNTY ENGINEER	BY:	
Engineer of work: EXP.3/31/11	CHECKED BY:	IMPROVEMENT PLAN No.	<b>CG-4718</b>
KEVIN VOGELSANG RCE 41213	APPROVAL DATE:		

IMPROVEMENT PLANS

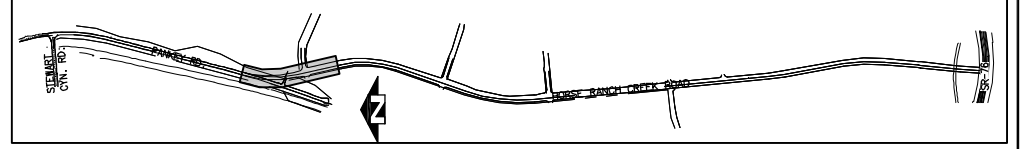
RFB CONSULTING, INC.  
ENGINEER: (858) 614-5000



**PROFILE**  
**HORSE RANCH CREEK ROAD**  
 SCALE: HORIZ. 1"=40'  
 VERT. 1"=8'



**PLAN**  
**HORSE RANCH CREEK ROAD**



**KEY MAP**  
 N.T.S.

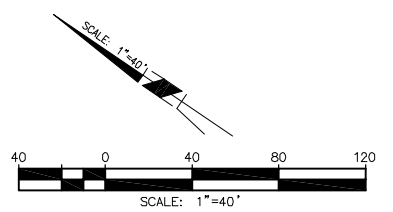
\* STORM DRAIN DATA (1350-D)

NO	BEARING/Delta	RADIUS	LENGTH	TANGENT	NOTE
1	04° 37' 56" W	1243.00'	100.49'	50.27'	24" RCP
2	N31° 28' 33" W	--	54.00'	--	18" RCP (PVT)

\* PUBLIC UNLESS OTHERWISE SHOWN

**CONSTRUCTION NOTES**

- MODIFIED CURB OPENING PER DETAIL 2 ON SHEET 4 (SEE SHEET 4 FOR SPACING REQUIREMENT)
- VEGETATED SWALE PER DETAIL 1 ON SHEET 4
- AC SPILLWAY PER COUNTY STD. DWG. D-22
- WINGWALL PER COUNTY STD. DWG. D-34
- RIP RAP PER COUNTY STD. DWG. D-40 (TYPE 2)
- TYPE B DRAINAGE DITCH PER COUNTY STD. DWG. D-75
- PROPOSED WATER LINE, SEE WATER PLANS FOR PLAN AND PROFILE



**COUNTY APPROVED CHANGES**

NO.	DESCRIPTION	APPROVED BY	DATE

**PERMITS**

SPECIFIC PLAN NO. UY 4718\_GPA-09-006  
 NOTICE OF INTENT NO. WDI# 9 37C358873  
 UY 4718\_SCH#2007011136

**BENCH MARK**

DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
 LOCATION: SW 15/76  
 RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
 ELEVATION: 306.49 DATUM: USC&GS DATUM OF 1929

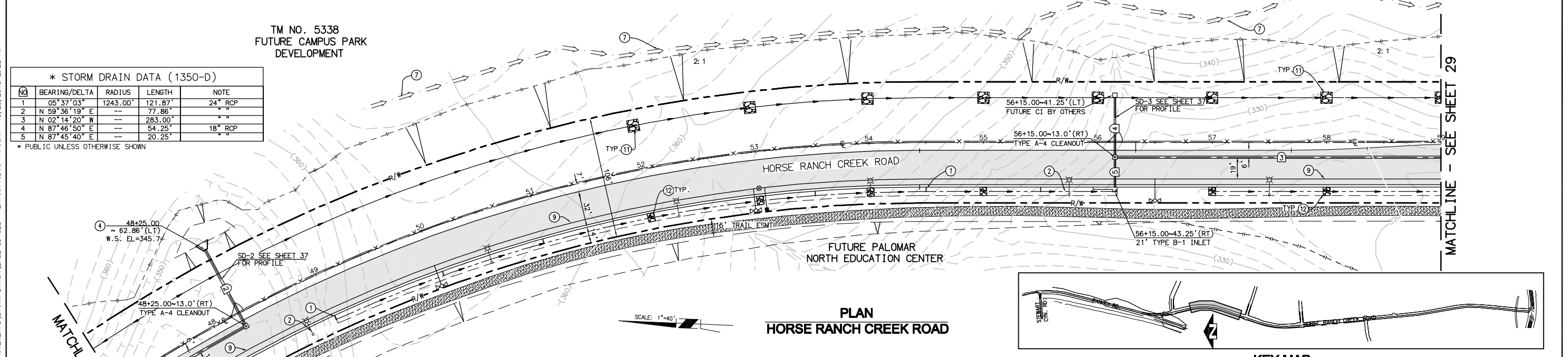
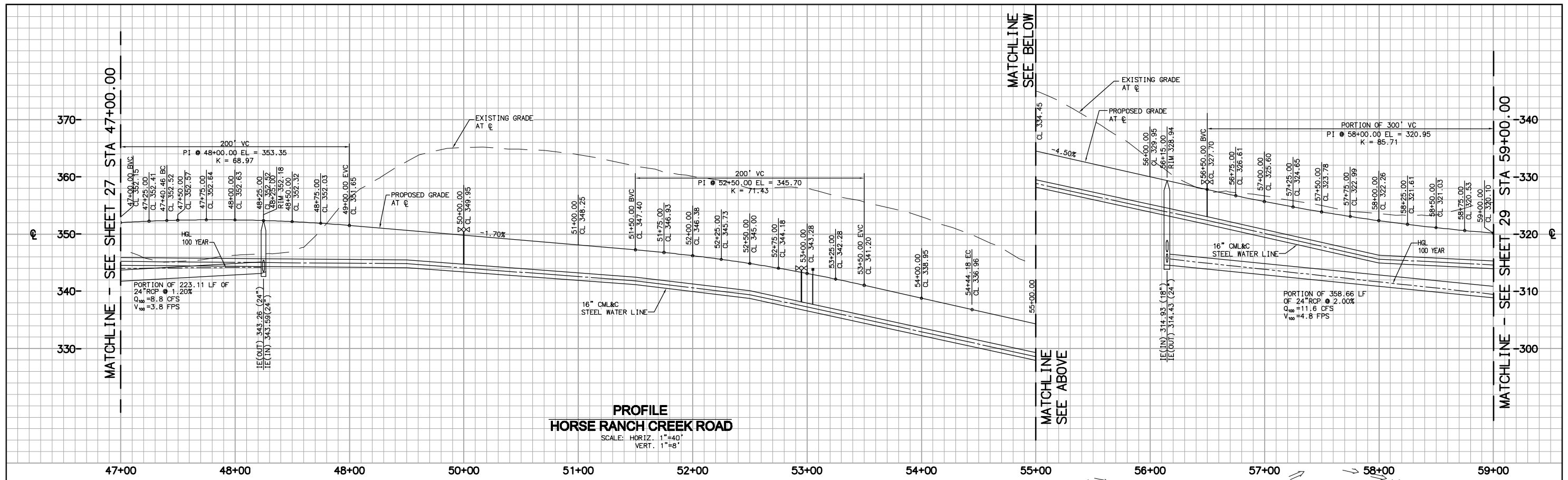
**PRIVATE CONTRACT**

SHEET 27	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	40 SHEETS
PLANS FOR THE IMPROVEMENT OF: <b>HORSE RANCH CREEK ROAD</b> <b>STORM DRAIN PLAN</b>		
CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)		
RECOMMENDED FOR APPROVAL:	APPROVED FOR: MOHAMAD FAKHRI/IDDINE COUNTY ENGINEER	BY:
Engineer of work: EXP. 3/31/11	CHECKED BY:	IMPROVEMENT PLAN NO. CG-4718
KEVIN VOGELSANG RCE 41213	APPROVAL DATE:	

IMPROVEMENT PLANS

RBF CONSULTING, INC.  
 ENGINEER: KEVIN VOGELSANG  
 TELEPHONE: (619) 614-5000

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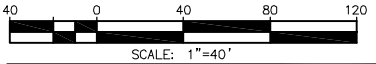


\* STORM DRAIN DATA (1350-D)

NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	05°37'03"	1243.00'	121.87'	24" RCP
2	N 59°36'19" E	---	77.86'	" "
3	N 02°14'20" W	---	283.00'	" "
4	N 87°46'50" E	---	54.25'	18" RCP
5	N 87°45'40" E	---	20.25'	" "

\* PUBLIC UNLESS OTHERWISE SHOWN

- CONSTRUCTION NOTES**
- MODIFIED CURB OPENING PER DETAIL 2 ON SHEET 4 (SEE SHEET 4 FOR SPACING REQUIREMENT)
  - VEGETATED SWALE PER DETAIL 1 ON SHEET 4
  - WINGWALL PER COUNTY STD. DWG. D-34
  - TYPE B DRAINAGE DITCH PER COUNTY STD. DWG. D-75
  - PROPOSED WATER LINE. SEE WATER PLANS FOR PLAN & PROFILE
  - NO. 2 BACKING RIP RAP DISSIPATOR, T=1.1', W=10', L=10'
  - NO. 2 BACKING RIP RAP DISSIPATOR, T=1.1', W=6', L=6'



COUNTY APPROVED CHANGES

NO.	DESCRIPTION	APPROVED BY	DATE

**PERMITS**

SPECIFIC PLAN NO. UY 4718\_GPA-09-006  
 NOTICE OF INTENT NO. WDI# 9 37C358873  
 UY 4718\_SCH#2007011136

**BENCH MARK**

DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
 LOCATION: SW 15/76  
 RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
 ELEVATION: 306.49 DATUM: USC&GS DATUM OF 1929

**PRIVATE CONTRACT**

SHEET 28 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS 40 SHEETS

PLANS FOR THE IMPROVEMENT OF:  
**HORSE RANCH CREEK ROAD**  
 STORM DRAIN PLAN

CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)

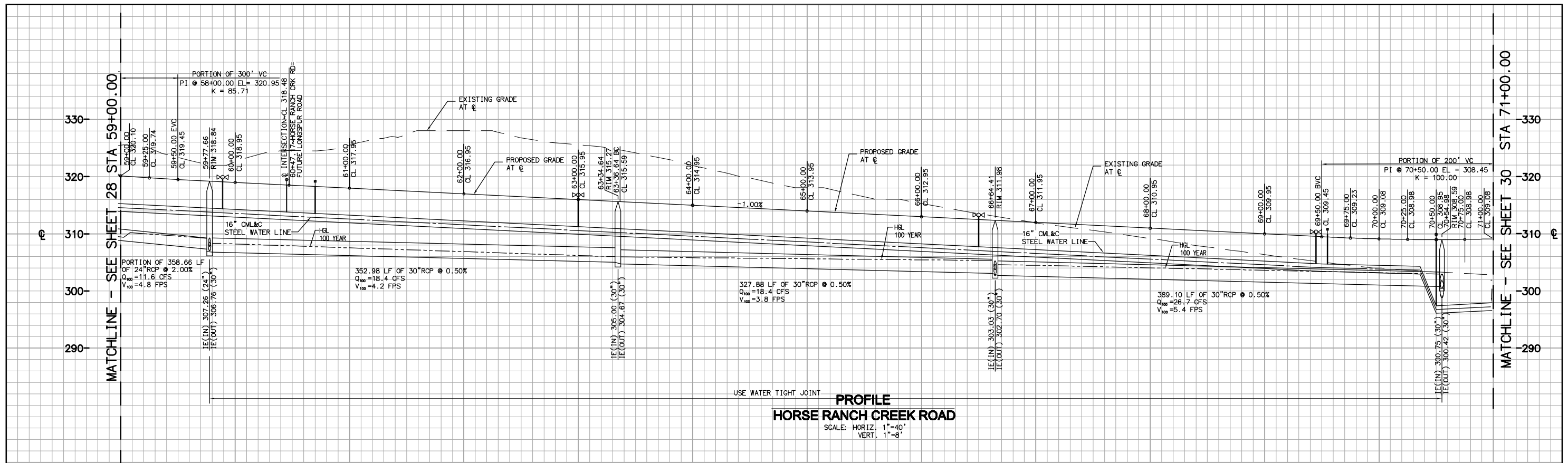
RECOMMENDED FOR APPROVAL: \_\_\_\_\_ APPROVED FOR: MOHAMAD FAKHRI (LINE COUNTY ENGINEER)

BY: \_\_\_\_\_

Engineer of work: EXP. 3/31/11 CHECKED BY: \_\_\_\_\_ IMPROVEMENT PLAN NO. CG-4718

KEVIN VOGELSANG RCE 41213 APPROVAL DATE: \_\_\_\_\_

RFB CONSULTING, INC. ENGINEER TELEPHONE: (656) 614-5000

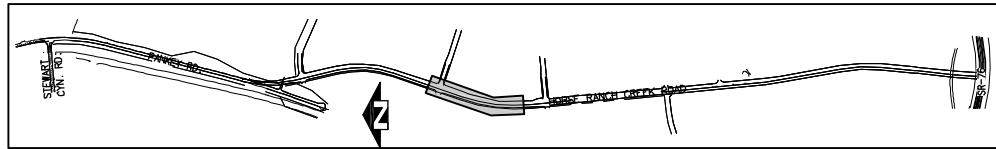


**PROFILE**  
**HORSE RANCH CREEK ROAD**  
 SCALE: HORIZ. 1"=40'  
 VERT. 1"=8'

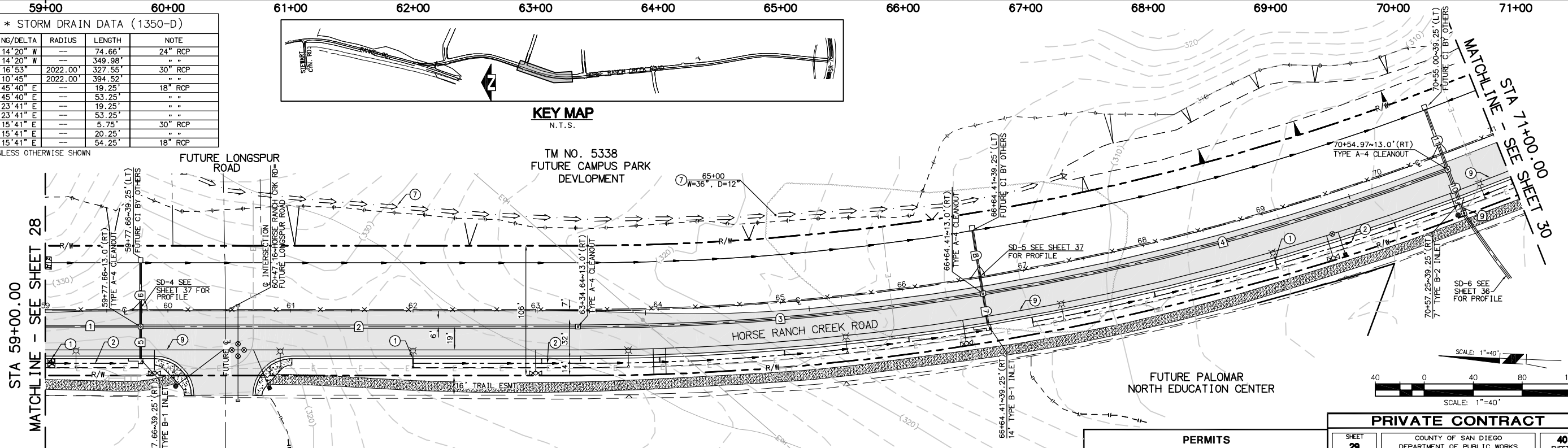
\* STORM DRAIN DATA (1350-D)

NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N 02° 14' 20" W	--	74.66'	24" RCP
2	N 02° 14' 20" W	--	349.98'	" "
3	09° 16' 53" W	2022.00'	327.55'	30" RCP
4	11° 10' 45" E	2022.00'	394.52'	" "
5	N 87° 45' 40" E	--	19.25'	18" RCP
6	N 87° 45' 40" E	--	53.25'	" "
7	N 78° 23' 41" E	--	19.25'	" "
8	N 78° 23' 41" E	--	53.25'	" "
9	N 67° 15' 41" E	--	5.75'	30" RCP
10	N 67° 15' 41" E	--	20.25'	" "
11	N 67° 15' 41" E	--	54.25'	18" RCP

\* PUBLIC UNLESS OTHERWISE SHOWN



**KEY MAP**  
 N.T.S.



**PLAN**  
**HORSE RANCH CREEK ROAD**

- CONSTRUCTION NOTES**
- 1) MODIFIED CURB OPENING PER DETAIL 2 ON SHEET 4 (SEE SHEET 4 FOR SPACING REQUIREMENT)
  - 2) VEGETATED SWALE PER DETAIL 1 ON SHEET 4
  - 3) TYPE B DRAINAGE DITCH PER COUNTY STD. DWG. D-75
  - 4) PROPOSED WATER LINE, SEE WATER PLANS FOR PLAN & PROFILE



**COUNTY APPROVED CHANGES**

NO.	DESCRIPTION	APPROVED BY	DATE

**PERMITS**

SPECIFIC PLAN NO. UY 4718\_GPA-09-006  
 NOTICE OF INTENT NO. WDID# 9 37C358873  
UY 4718\_SCH#2007011136

**BENCH MARK**

DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
 LOCATION: SW 15/76  
 RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
 ELEVATION: 306.49 DATUM: JUS&GS DATUM OF 1929

**PRIVATE CONTRACT**

SHEET **29** COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS **40** SHEETS

PLANS FOR THE IMPROVEMENT OF:  
**HORSE RANCH CREEK ROAD**  
**STORM DRAIN PLAN**

CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)

RECOMMENDED FOR APPROVAL: \_\_\_\_\_ APPROVED FOR: MOHAMAD FAKHRI/CDOT COUNTY ENGINEER

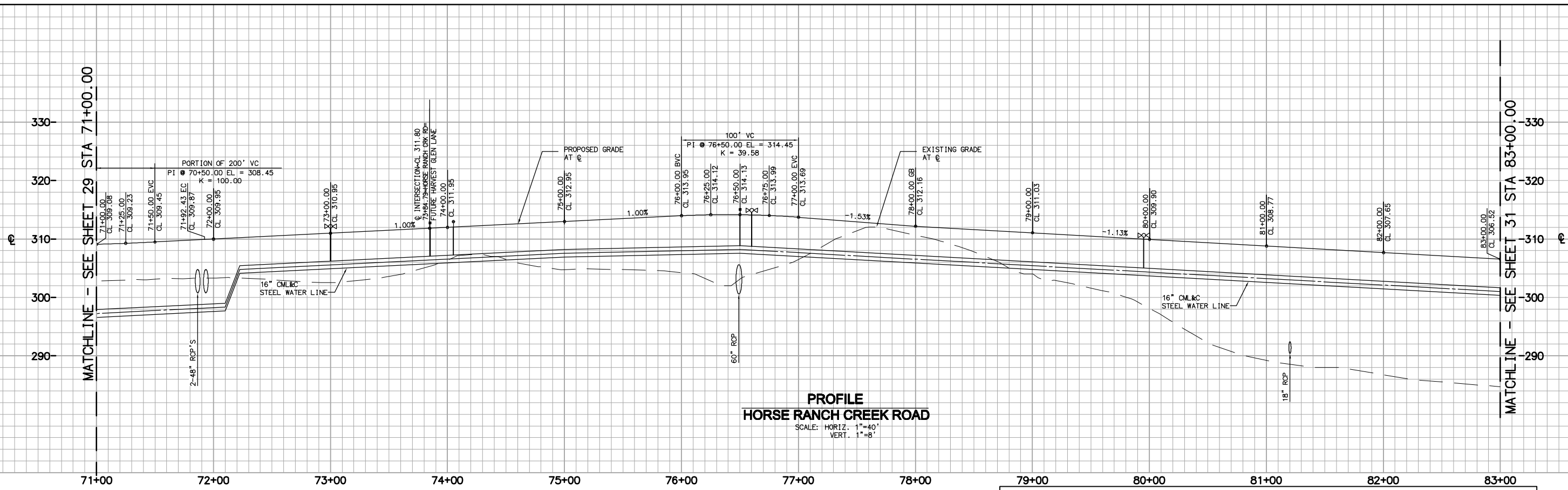
BY: \_\_\_\_\_

Engineer of work: EXP. 3/31/11 CHECKED BY: \_\_\_\_\_ IMPROVEMENT PLAN No. **CG-4718**

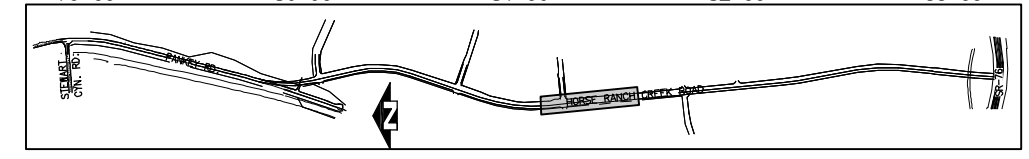
KEVIN VOGELSSANG RCE 41213 APPROVAL DATE: \_\_\_\_\_



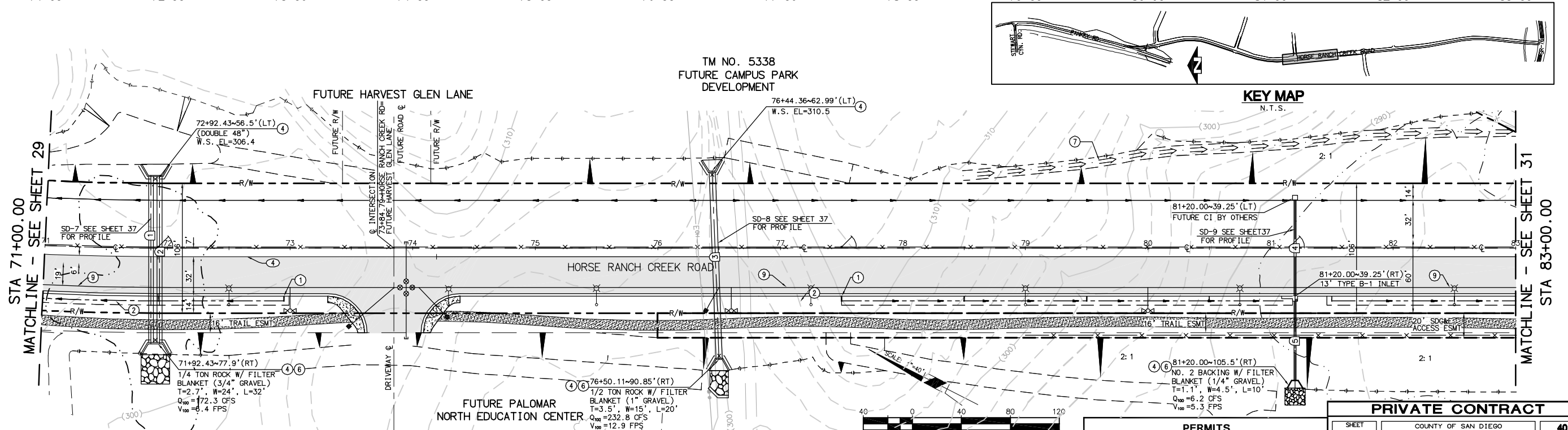
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**PROFILE**  
**HORSE RANCH CREEK ROAD**  
 SCALE: HORIZ. 1"=40'  
 VERT. 1"=8'



**KEY MAP**  
 N.T.S.



**PLAN**  
**HORSE RANCH CREEK ROAD**

\* STORM DRAIN DATA (1350-D)

NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	S 63° 18' 16" W	---	137.34'	48" RCP
2	S 63° 18' 16" W	---	137.34'	48" RCP
3	N 61° 09' 53" E	---	153.94'	60" RCP
4	N 63° 18' 16" E	---	78.50'	18" RCP
5	N 63° 18' 16" E	---	64.78'	18" RCP

\* PUBLIC UNLESS OTHERWISE SHOWN



- CONSTRUCTION NOTES**
- MODIFIED CURB OPENING PER DETAIL 2 ON SHEET 4 (SEE SHEET 4 FOR SPACING REQUIREMENT)
  - VEGETATED SWALE PER DETAIL 1 ON SHEET 4
  - WINGWALL PER COUNTY STD. DWG. D-34
  - RIP RAP PER COUNTY STD. DWG. D-40 (TYPE 2)
  - TYPE B DRAINAGE DITCH PER COUNTY STD. DWG. D-75
  - PROPOSED WATER LINE, SEE WATER PLANS FOR PLAN AND PROFILE

**COUNTY APPROVED CHANGES**

NO.	DESCRIPTION	APPROVED BY	DATE

**PERMITS**

SPECIFIC PLAN NO. UY 4718\_GPA-09-006  
 NOTICE OF INTENT NO. WDD# 9 37C358873  
 UY 4718\_SCH#2007011136

**BENCH MARK**

DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
 LOCATION: SW 15/76  
 RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
 ELEVATION: 306.49 DATUM: USC&GS DATUM OF 1929

**PRIVATE CONTRACT**

SHEET 30 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS 40 SHEETS

PLANS FOR THE IMPROVEMENT OF:  
**HORSE RANCH CREEK ROAD**  
**STORM DRAIN PLAN**

CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)

RECOMMENDED FOR APPROVAL: \_\_\_\_\_ APPROVED FOR: MOHAMAD FAKHRI/DINE COUNTY ENGINEER

BY: \_\_\_\_\_

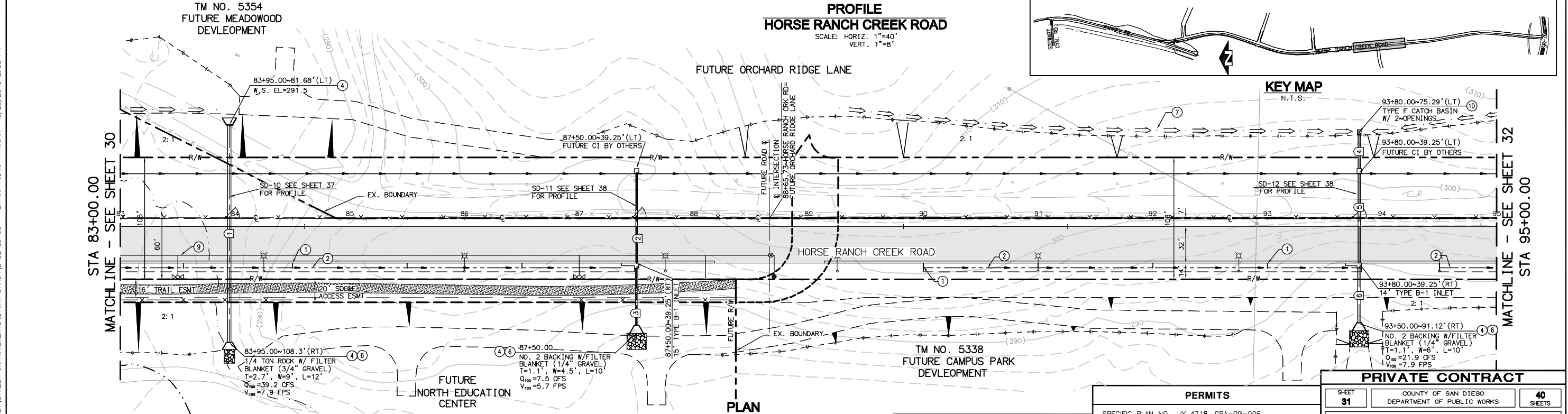
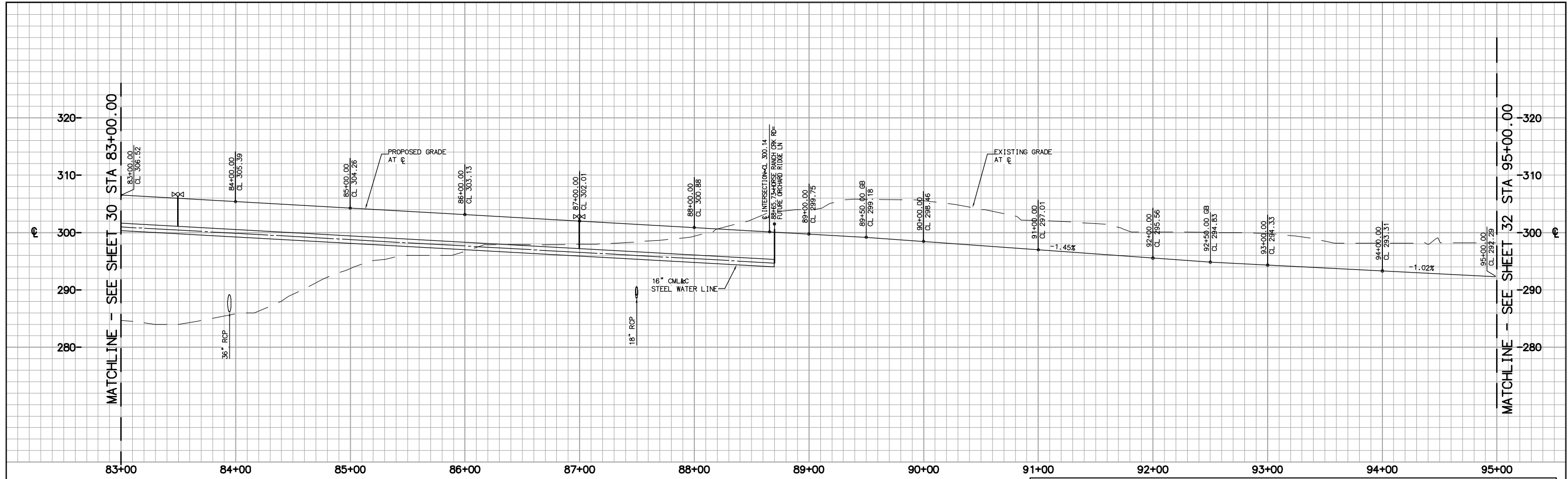
Engineer of work: EXP. 3/31/11 CHECKED BY: \_\_\_\_\_ IMPROVEMENT PLAN No. CG-4718

KEVIN VOGELSANG RCE 41213 APPROVAL DATE: \_\_\_\_\_

IMPROVEMENT PLANS

RBF CONSULTING, INC.  
 ENGINEER: KEVIN VOGELSANG  
 TELEPHONE: (619) 614-5000

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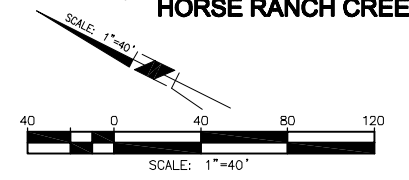


- CONSTRUCTION NOTES**
- ① MODIFIED CURB OPENING PER DETAIL 2 ON SHEET 4 (SEE SHEET 4 FOR SPACING REQUIREMENT)
  - ② VEGETATED SWALE PER DETAIL 1 ON SHEET 4
  - ③ WINGWALL PER COUNTY STD. DWG. D-34
  - ④ RIP RAP PER COUNTY STD. DWG. D-40 (TYPE 2)
  - ⑤ PROPOSED WATER LINE, SEE WATER PLANS FOR PLAN AND PROFILE
  - ⑥ TYPE "F" CATCH BASIN PER COUNTY STD. DWG. D-7

**\* STORM DRAIN DATA (1350-D)**

NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N 63° 18' 16" E	--	189.98'	36" RCP
2	N 63° 18' 16" E	--	78.50'	18" RCP
3	N 63° 18' 16" E	--	50.29'	" "
4	N 63° 18' 16" E	--	30.04'	24" RCP
5	N 63° 18' 16" E	--	78.50'	" "
6	N 63° 18' 16" E	--	48.00'	" "

\* PUBLIC UNLESS OTHERWISE SHOWN



**PROFILE**  
HORSE RANCH CREEK ROAD  
SCALE: HORIZ. 1"=40'  
VERT. 1"=8'

**KEY MAP**  
N.T.S.

**PLAN**  
HORSE RANCH CREEK ROAD

**COUNTY APPROVED CHANGES**

NO.	DESCRIPTION	APPROVED BY	DATE

**PERMITS**

SPECIFIC PLAN NO. UY 4718\_GPA-09-006  
 NOTICE OF INTENT NO. WDD# 9 37C358873  
 UY 4718\_SCH#2007011136

**BENCH MARK**

DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
 LOCATION: SW 15/76  
 RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
 ELEVATION: 306.49 DATUM: USC&GS DATUM OF 1929

**PRIVATE CONTRACT**

SHEET 31 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS 40 SHEETS

PLANS FOR THE IMPROVEMENT OF:  
**HORSE RANCH CREEK ROAD**  
 STORM DRAIN PLAN

CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)

RECOMMENDED FOR APPROVAL: [Signature] APPROVED FOR: MOHAMAD FAKHRI/CDOW COUNTY ENGINEER

BY: [Signature]

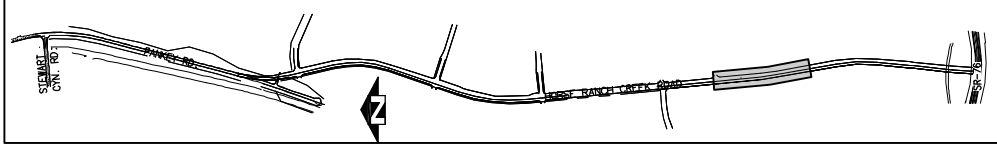
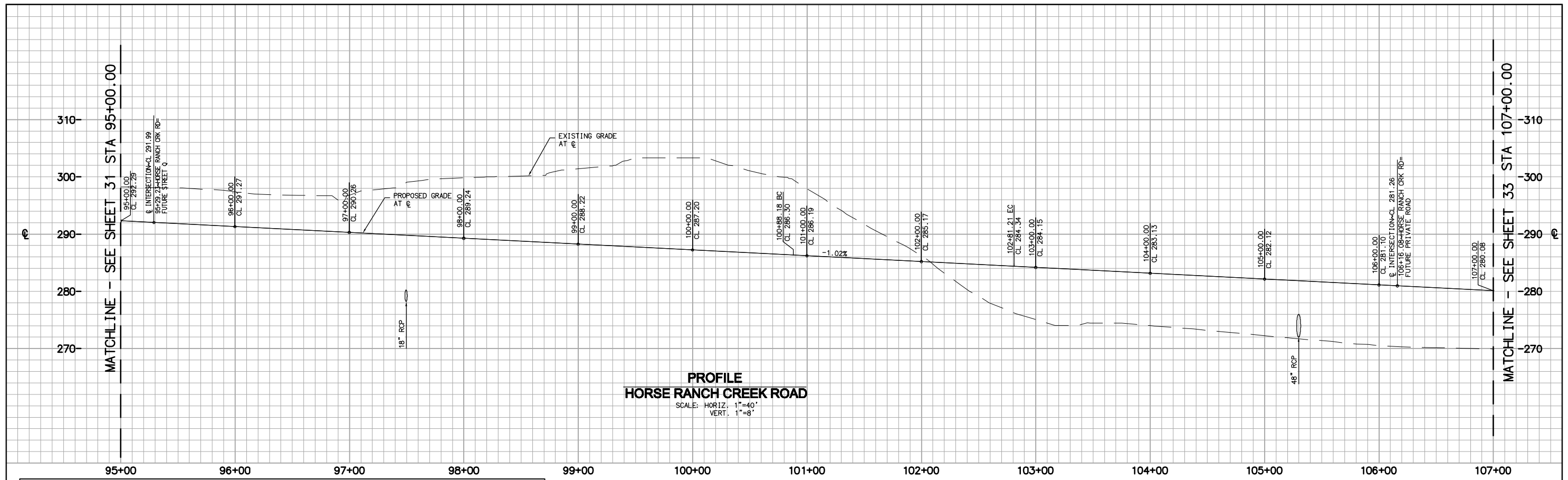
Engineer of work: EXP. 3/31/11 CHECKED BY: KEVIN VOGELSANG IMPROVEMENT PLAN NO. CG-4718

APPROVAL DATE: [Date]

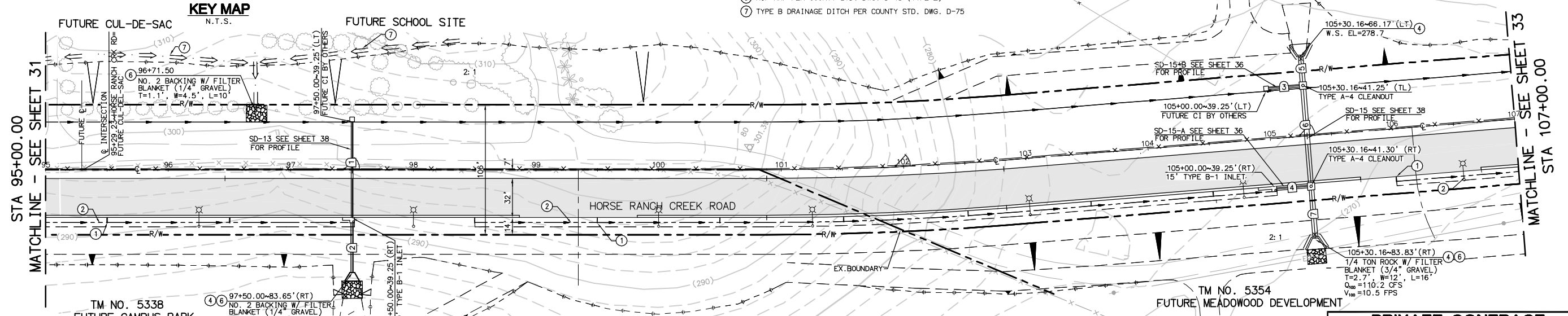
IMPROVEMENT PLANS

RBF CONSULTING, INC.  
ENGINEER: KEVIN VOGELSANG  
TELEPHONE: (619) 614-5000

H:\DATA\25102702\CADD\LAND\LD\V\STREET IMPROVEMENTS\STORM DRAIN\2702-SD-032 - LAYOUT1.DWG AROCHA 10/25/2010 2:36 PM



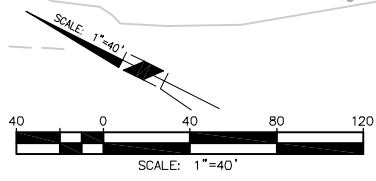
- CONSTRUCTION NOTES**
- 1) MODIFIED CURB OPENING PER DETAIL 2 ON SHEET 4 (SEE SHEET 4 FOR SPACING REQUIREMENT)
  - 2) VEGETATED SWALE PER DETAIL 1 ON SHEET 4
  - 4) WINGWALL PER COUNTY STD. DWG. D-34
  - 6) RIP RAP PER COUNTY STD. DWG. D-40 (TYPE 2)
  - 7) TYPE B DRAINAGE DITCH PER COUNTY STD. DWG. D-75



\* STORM DRAIN DATA (1350-D)

NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N 63°18'16" E	---	78.50'	18" RCP
2	S 63°18'16" W	---	40.90'	18" RCP
3	S 31°18'13" E	---	25.16'	24" RCP
4	S 31°18'13" E	---	25.18'	24" RCP
5	N 58°41'47" E	---	21.92'	48" RCP
6	N 58°41'47" E	---	76.55'	48" RCP
7	N 58°41'47" E	---	39.53'	48" RCP

\* PUBLIC UNLESS OTHERWISE SHOWN



**COUNTY APPROVED CHANGES**

NO.	DESCRIPTION	APPROVED BY	DATE

**PERMITS**

SPECIFIC PLAN NO. UY 4718\_GPA-09-006  
NOTICE OF INTENT NO. WDD# 9 37C358873  
UY 4718\_SCH#2007011136

**BENCH MARK**

DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
LOCATION: SW 15/76  
RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
ELEVATION: 306.49 DATUM: USC&GS DATUM OF 1929

**PRIVATE CONTRACT**

SHEET 32 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS 40 SHEETS

PLANS FOR THE IMPROVEMENT OF:  
**HORSE RANCH CREEK ROAD**  
STORM DRAIN PLAN

CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)

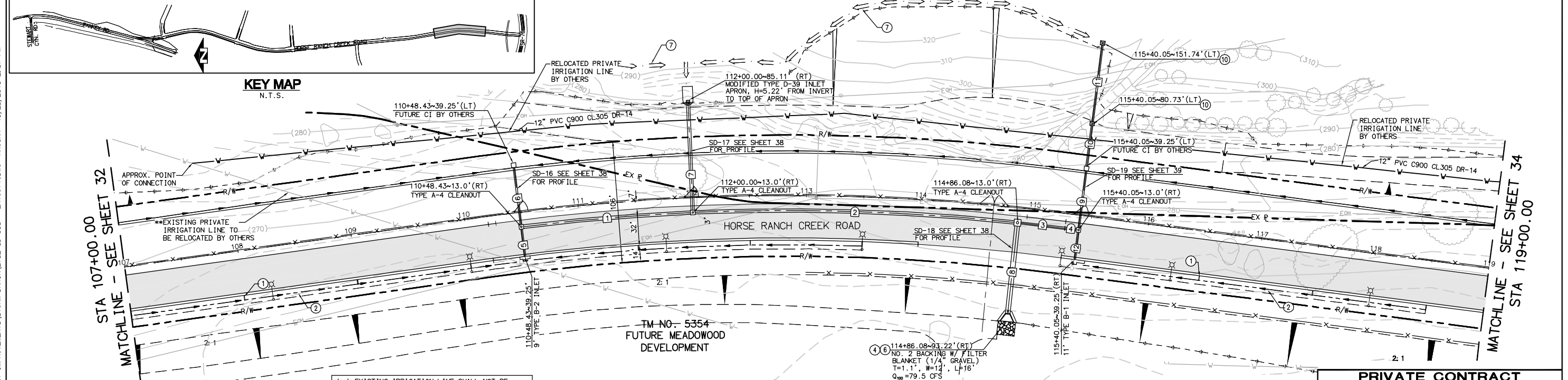
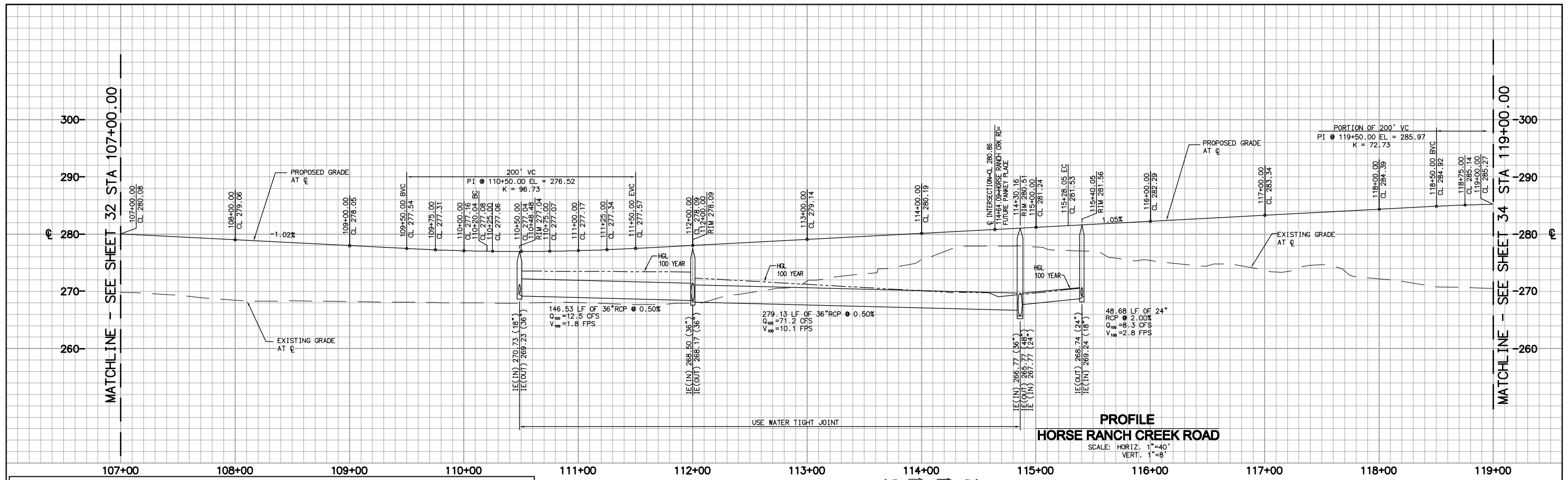
RECOMMENDED FOR APPROVAL: \_\_\_\_\_ APPROVED FOR: MOHAMAD FAKHRI/DIANE COUNTY ENGINEER  
BY: \_\_\_\_\_

Engineer of work: EXP. 3/31/11 KEVIN VOGELSANG RCE 41213  
CHECKED BY: \_\_\_\_\_ APPROVAL DATE: \_\_\_\_\_ IMPROVEMENT PLAN NO. CG-4718

RFB CONSULTING, INC. ENGINEER TELEPHONE: (658) 614-5000

IMPROVEMENT PLANS

H:\PDATA\25102702\CADD\LAND\DLV\STREET IMPROVEMENTS\STORM DRAIN\2702-SD-033 - LAYOUT1.DWG ARCHA 10/25/2010 2:37 PM

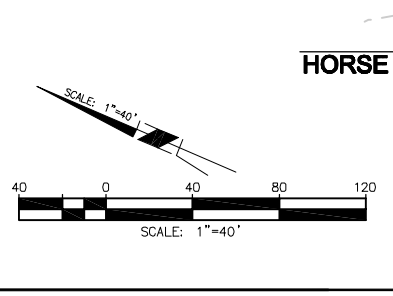


**\* STORM DRAIN DATA (1350-D)**

NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	04°26'56"	1883.00'	146.21'	36" RCP
2	08°28'30"	1883.00'	278.53'	36" RCP
3	01°10'28"	1883.00'	38.60'	24" RCP
4	N 15°59'03" W	--	10.00'	" "
5	N 59°33'09" E	--	20.25'	18" RCP
6	N 59°33'09" E	--	54.25'	" "
7	N 64°07'23" E	--	96.11'	36" RCP
8	N 72°45'00" E	--	72.72'	48" RCP
9	N 74°00'57" E	--	54.25'	18" RCP
10	N 74°00'57" E	--	35.75'	18" RCP (PVT)
11	N 74°00'57" E	--	67.55'	18" RCP (PVT)
12	N 74°00'56" E	--	20.25'	18" RCP

\* PUBLIC UNLESS OTHERWISE SHOWN

- CONSTRUCTION NOTES**
- MODIFIED CURB OUTLET PER DETAIL 2 ON SHEET 4 (SEE SHEET 4 FOR SPACING REQUIREMENT)
  - VEGETATED SWALE PER DETAIL 1 ON SHEET 4
  - WINGWALL PER COUNTY STD. DWG. D-34
  - RIP RAP PER COUNTY STD. DWG. D-40 (TYPE 2)
  - TYPE B DRAINAGE DITCH PER COUNTY STD. DWG. D-75



**COUNTY APPROVED CHANGES**

NO.	DESCRIPTION	APPROVED BY	DATE

**PERMITS**

SPECIFIC PLAN NO. JY 4718\_GPA-09-006  
 NOTICE OF INTENT NO. WDID# 9 37C358873  
JY 4718\_SCH#2007011136

**BENCH MARK**

DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
 LOCATION: SW 15/76

RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
 ELEVATION: 306.49 DATUM: JUS&GS DATUM OF 1929

**PRIVATE CONTRACT**

SHEET **33** COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS **40** SHEETS

PLANS FOR THE IMPROVEMENT OF:  
**HORSE RANCH CREEK ROAD**  
**STORM DRAIN PLAN**

CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)

RECOMMENDED FOR APPROVAL: \_\_\_\_\_ APPROVED FOR: MOHAMAD FAKHRI/DLINE COUNTY ENGINEER

BY: \_\_\_\_\_

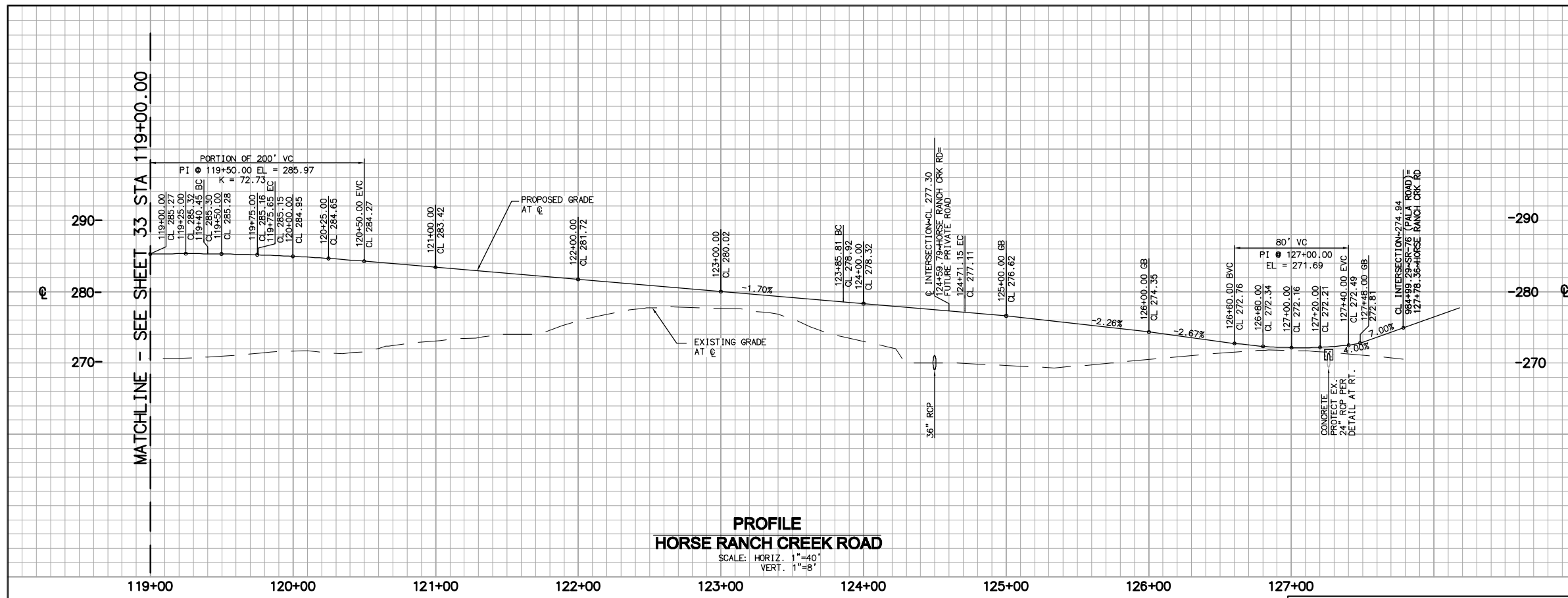
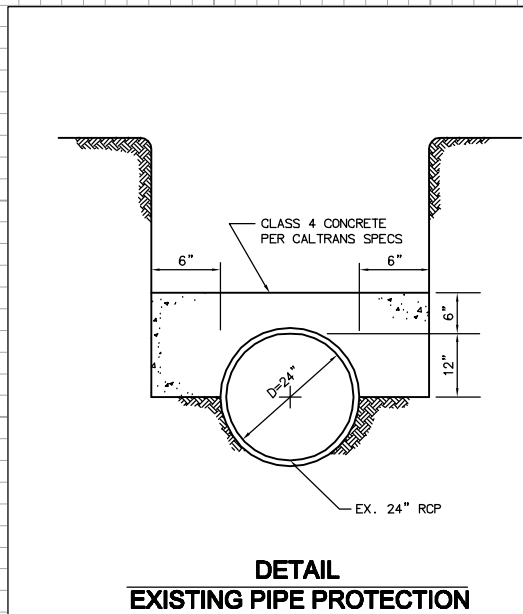
Engineer of work: EXP.3/31/11 CHECKED BY: \_\_\_\_\_ IMPROVEMENT PLAN NO. **CG-4718**

KEVIN VOGELSANG RCE 41213 APPROVAL DATE: \_\_\_\_\_

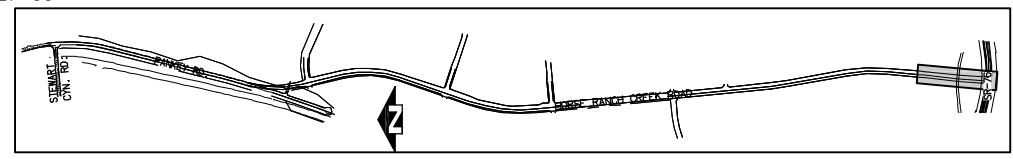
RBF CONSULTING, INC. ENGINEER TELEPHONE: (658) 614-5000

IMPROVEMENT PLANS

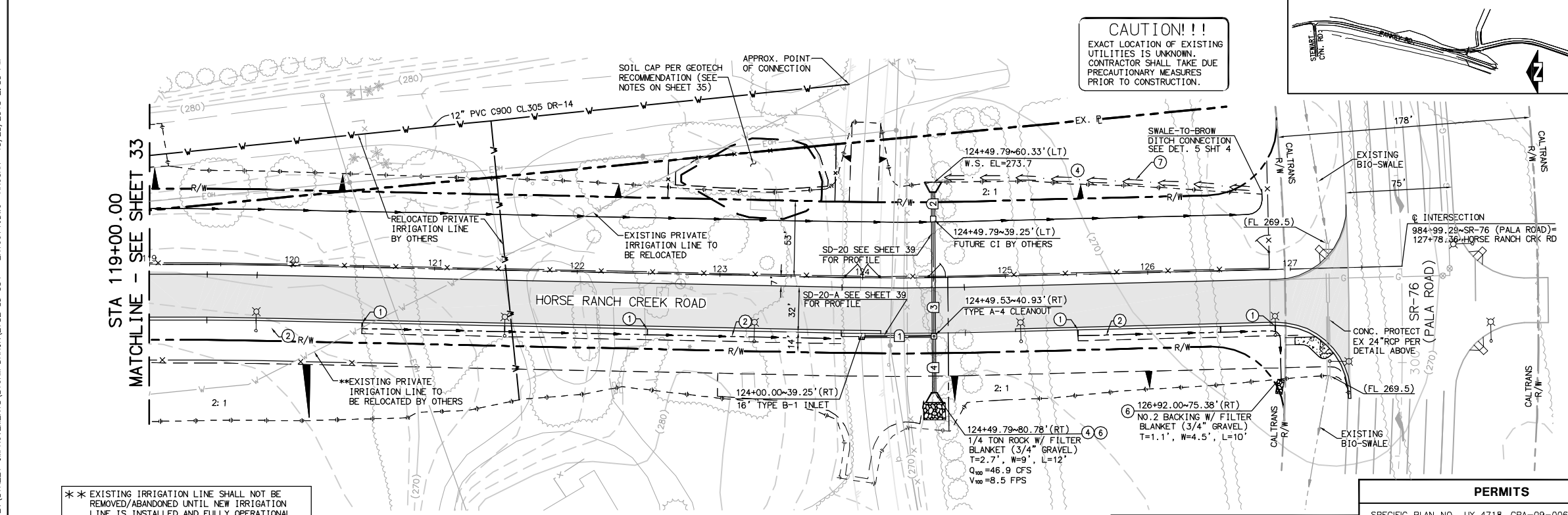
PERMIT NUMBER 11-  
 CO RTE PM  
 AS-BUILT PLANS FOR ROADWAY  
 GEOMETRIC AND ABOVE GROUND  
 FEATURES  
 STATE REPRESENTATIVE DATE



**PROFILE**  
**HORSE RANCH CREEK ROAD**  
 SCALE: HORIZ. 1"=40'  
 VERT. 1"=8'



**KEY MAP**  
 N.T.S.



**PLAN**  
**HORSE RANCH CREEK ROAD**

\*\* EXISTING IRRIGATION LINE SHALL NOT BE REMOVED/ABANDONED UNTIL NEW IRRIGATION LINE IS INSTALLED AND FULLY OPERATIONAL.

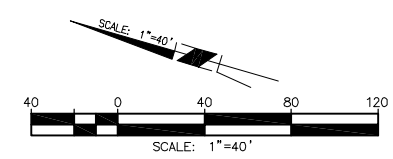
\* STORM DRAIN DATA (1350-D)

NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N 16°30'12" W	---	46.63'	18" RCP
2	N 73°29'48" E	---	17.08'	36" RCP
3	N 73°29'48" E	---	78.19'	36" RCP
4	N 73°29'48" E	---	37.85'	36" RCP

\* PUBLIC UNLESS OTHERWISE SHOWN

**CAUTION!!!**  
 EXACT LOCATION OF EXISTING UTILITIES IS UNKNOWN. CONTRACTOR SHALL TAKE DUE PRECAUTIONARY MEASURES PRIOR TO CONSTRUCTION.

- CONSTRUCTION NOTES**
- MODIFIED CURB OPENING PER DETAIL 2 ON SHEET 4 (SEE SHEET 4 FOR SPACING REQUIREMENT)
  - VEGETATED SWALE PER DETAIL 1 ON SHEET 4
  - WINGWALL PER COUNTY STD. DWG. D-34
  - RIP RAP PER COUNTY STD. DWG. D-40 (TYPE 2)
  - TYPE B DRAINAGE DITCH PER COUNTY STD. DWG. D-75



**COUNTY APPROVED CHANGES**

NO.	DESCRIPTION	APPROVED BY	DATE

**PERMITS**

SPECIFIC PLAN NO. UY 4718\_GPA-09-006  
 NOTICE OF INTENT NO. W/DID# 9 37C358873  
 UY 4718\_SCH#2007011136

**BENCH MARK**

DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
 LOCATION: SW 15/76  
 RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
 ELEVATION: 306.49 DATUM: USC&GS DATUM OF 1929

**PRIVATE CONTRACT**

SHEET 34 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS 40 SHEETS

PLANS FOR THE IMPROVEMENT OF:  
**HORSE RANCH CREEK ROAD**  
 STORM DRAIN PLAN

CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)

RECOMMENDED FOR APPROVAL: \_\_\_\_\_ APPROVED FOR: MOHAMAD FAKHRILODINE COUNTY ENGINEER

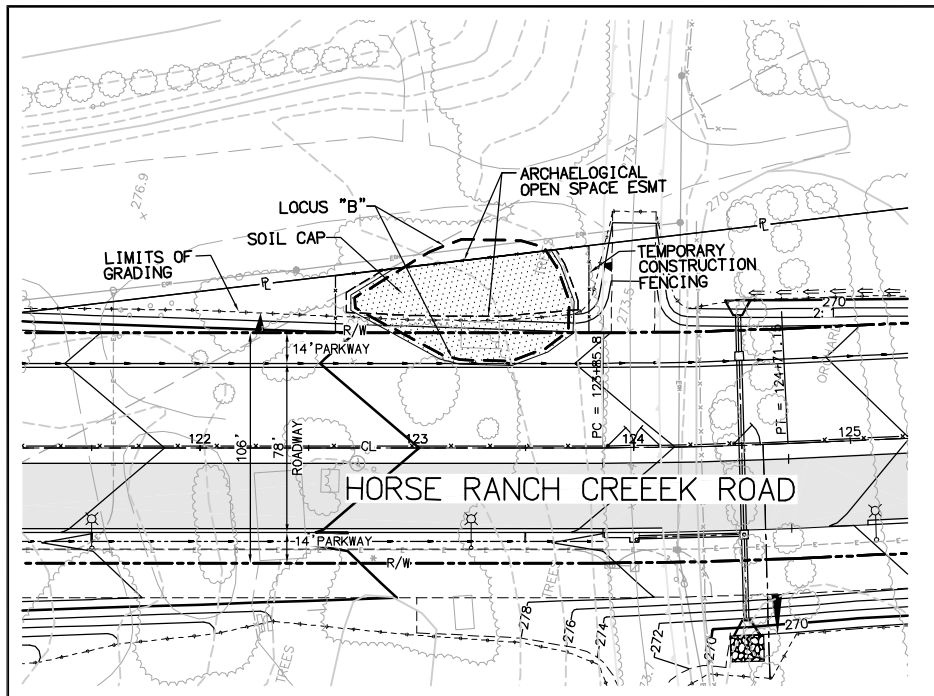
BY: \_\_\_\_\_

Engineer of work: EXP. 3/31/11 CHECKED BY: \_\_\_\_\_ IMPROVEMENT PLAN NO. CG-4718

KEVIN VOGELSANG RCE 41213 APPROVAL DATE: \_\_\_\_\_

IMPROVEMENT PLANS





**SOIL CAPPING NOTES:**

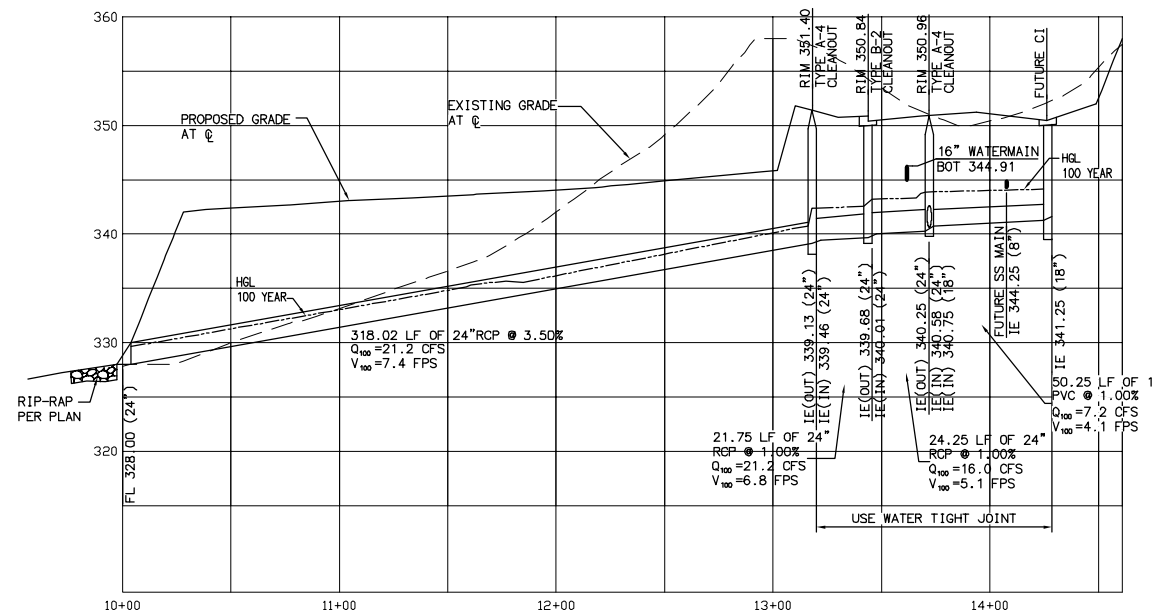
THIS SOIL CAPPING PLAN IS DESIGNED TO PRESERVE IN PLACE POTENTIALLY SIGNIFICANT CULTURAL RESOURCE CA-SD1-682, IDENTIFIED IN AN AREA ADJACENT TO THE PROPOSED HORSE RANCH CREEK ROAD. THE SOIL CAPPING PLAN IS CONSISTENT WITH THE MITIGATION MEASURES DESCRIBED IN THE CERTIFIED EIR DATED JUNE 2008 FOR THE PALOMAR COMMUNITY COLLEGE DISTRICT NORTH EDUCATION CENTER. THIS EXHIBIT DESCRIBES THE IMPLEMENTATION PROCESS FOR CONSTRUCTING THE SOIL CAP OVER THE BELOW GROUND CULTURAL RESOURCES. INCLUDED IN THIS EXHIBIT IS A LOCATION MAP OF THE AREA TO BE PRESERVED, AS WELL AS A PLAN VIEW DETAILS AND PROFILE DETAIL OF SAID LOCATION.

THE FOLLOWING NOTES OUTLINE THE SPECIFIC DETAILS OF THE SOIL CAPPING PLAN:

- 1.) PRIOR TO GRADING, AN ARCHAEOLOGICAL MONITOR SHALL BE RETAINED. THIS MONITOR SHALL FLAG THE LIMITS OF THE ARCHAEOLOGICAL SITE AS SHOWN IN THE PLAN VIEW DETAIL.
- 2.) ALL VEGETATION WITHIN EASEMENT AREA WILL BE HAND CLEARED (EXCEPT FOR MATURE TREES 6-INCHES IN DIAMETER AT CHEST HEIGHT).
- 3.) GEO-FABRIC MATERIAL AS RECOMMENDED BY A SOILS ENGINEER WILL BE PLACED OVER THE ARCHAEOLOGICAL EASEMENT AREA.
- 4.) SELECT CLEAN FILL DIRT WILL BE PLACED OVER THE GEO-FABRIC MATERIAL TO A DEPTH OF 1.5 TO 2.0 FT. THIS LAYER SHALL BE "FEATHERED" OUT TO TEN FEET BEYOND THE DEFINED BOUNDARY OF THE CAPPING AREA TO CREATE A BUFFER.
- 5.) FOLLOWING CAPPING, THE SOIL CAP SHALL BE LANDSCAPED WITH DROUGHT-RESISTANT SHALLOW ROOTED SPECIES. TEMPORARY IRRIGATION SHALL BE A DRIP SYSTEM AND SHALL BE REMOVED AS SOON AS THE VEGETATION HAS ESTABLISHED.
- 6.) AFTER THE CAP HAS BEEN COMPLETED, THE ARCHAEOLOGICAL MONITOR SHALL PREPARE A FINAL LETTER REPORT THAT DETAILS HOW THE CAPPING PROCEDURE AND LANDSCAPING WAS COMPLETED.
- 7.) PRIOR TO GRADING, THE GRADING CONTRACTOR WILL INSTALL A TEMPORARY CONSTRUCTION FENCE AROUND THE ARCHAEOLOGICAL SITE OUTLINING THE STREET RIGHT-OF-WAY AND LIMITS OF GRADING AS SHOWN ON PLAN VIEW DETAIL.
- 8.) THIS TEMPORARY CONSTRUCTION FENCE WILL REMAIN IN PLACE UNTIL GRADING OF HORSE RANCH CREEK ROAD IS COMPLETE.

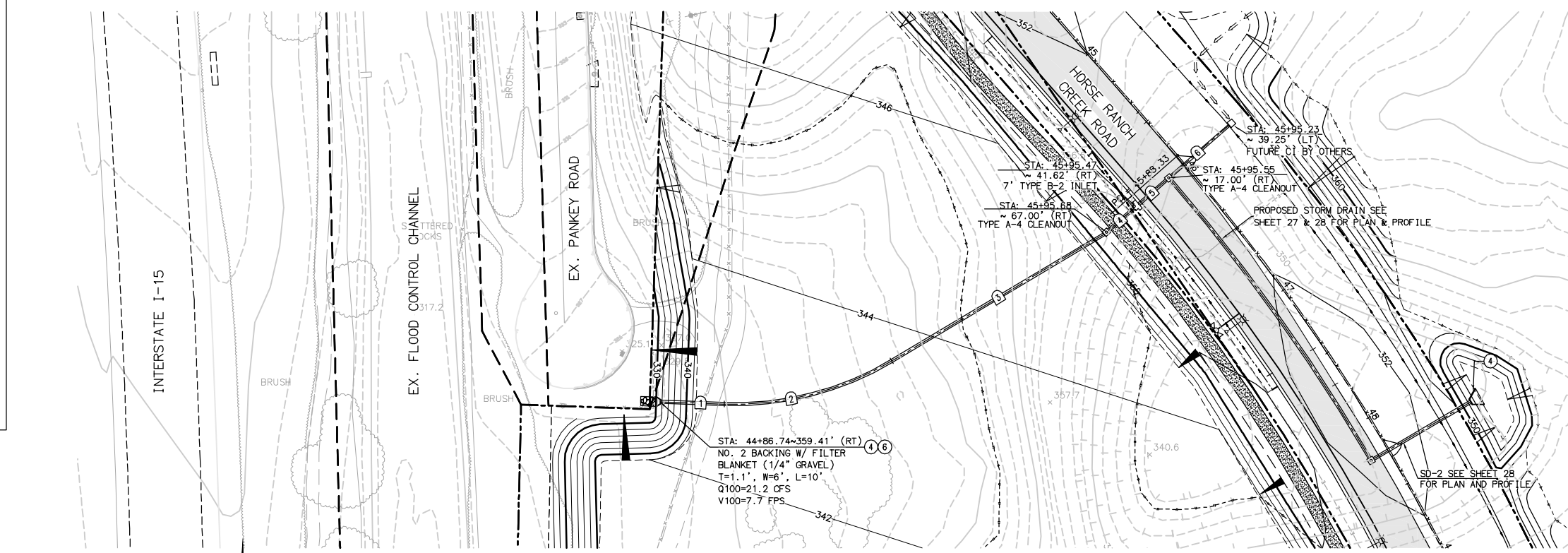
**SOIL CAPPING DETAIL**

SEE SHEETS 12 & 34



**SD-1**

STA: 45+95.45



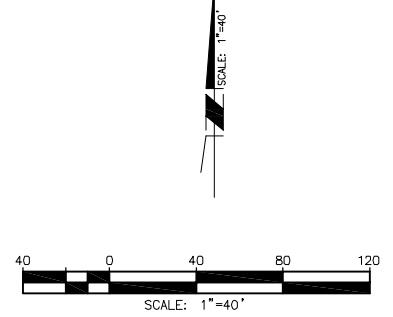
**\* STORM DRAIN DATA (1350-D)**

NO	BEARING/DELTA	RADIUS	LENGTH	TANGENT	NOTE
1	N88°00'04"W	---	42.01'	---	24" RCP (PVT)
2	S32°49'15"E	200.00'	114.57'	58.90'	24" RCP (PVT)
3	N59°10'41"E	---	161.44'	---	24" RCP (PVT)
4	N49°14'23"E	---	21.75'	---	24" RCP
5	N48°50'38"E	---	24.25'	---	24" RCP
6	N48°50'34"E	---	50.25'	---	18" RCP

\* PUBLIC UNLESS OTHERWISE SHOWN

**CONSTRUCTION NOTES**

- (4) WINGWALL PER COUNTY STD. DWG. D-34
- (6) RIP RAP PER COUNTY STD. DWG. D-40 (TYPE 2)
- (10) PRECAST 12" CATCH BASIN PER DETAIL A ON SHEET 4



**COUNTY APPROVED CHANGES**

NO.	DESCRIPTION	APPROVED BY	DATE

**PERMITS**

SPECIFIC PLAN NO. JY 4718\_GPA-09-006

NOTICE OF INTENT NO. WDID# 9 37C358873

JY 4718\_SCH#2007011136

**BENCH MARK**

DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980

LOCATION: SW 15/76

RECORD FROM: CALTRANS CONTROL MONUMENT DATA

ELEVATION: 306.49 DATUM: JSC&S DATUM OF 1929

**PRIVATE CONTRACT**

SHEET **36** COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS **40** SHEETS

PLANS FOR THE IMPROVEMENT OF:

**HORSE RANCH CREEK ROAD**

**STORM DRAIN PLAN & SOIL CAP PLAN**

CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)

RECOMMENDED FOR APPROVAL: \_\_\_\_\_ APPROVED FOR: MOHAMAD FAKHRI/ODINE COUNTY ENGINEER

BY: \_\_\_\_\_

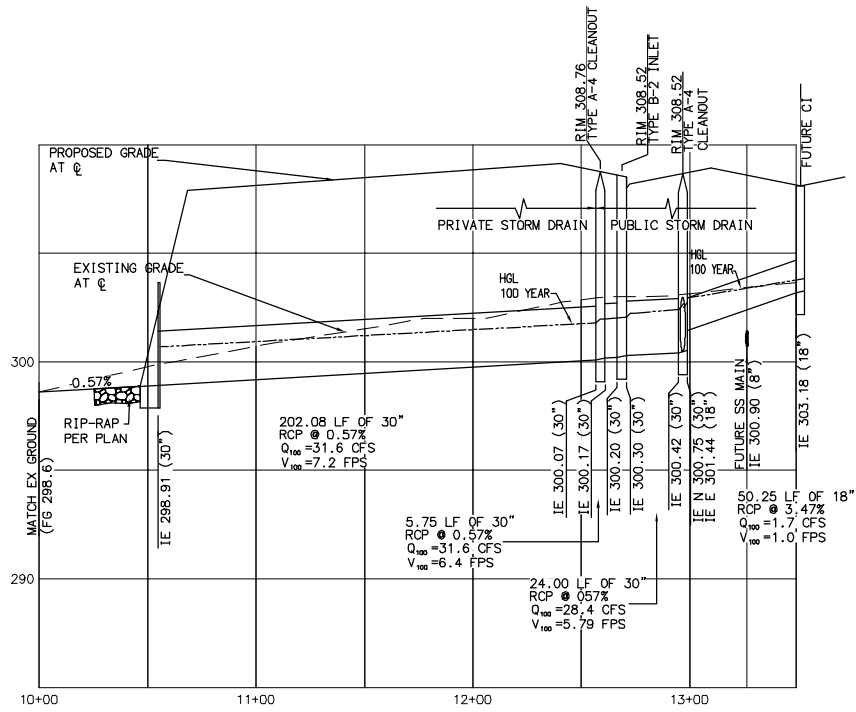
Engineer of work: EXP. 3/31/11 CHECKED BY: \_\_\_\_\_ IMPROVEMENT PLAN NO. **CG-4718**

KEVIN VOGELSANG RCE 41213 APPROVAL DATE: \_\_\_\_\_

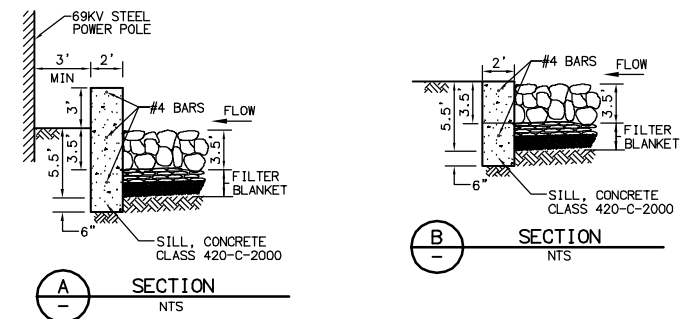
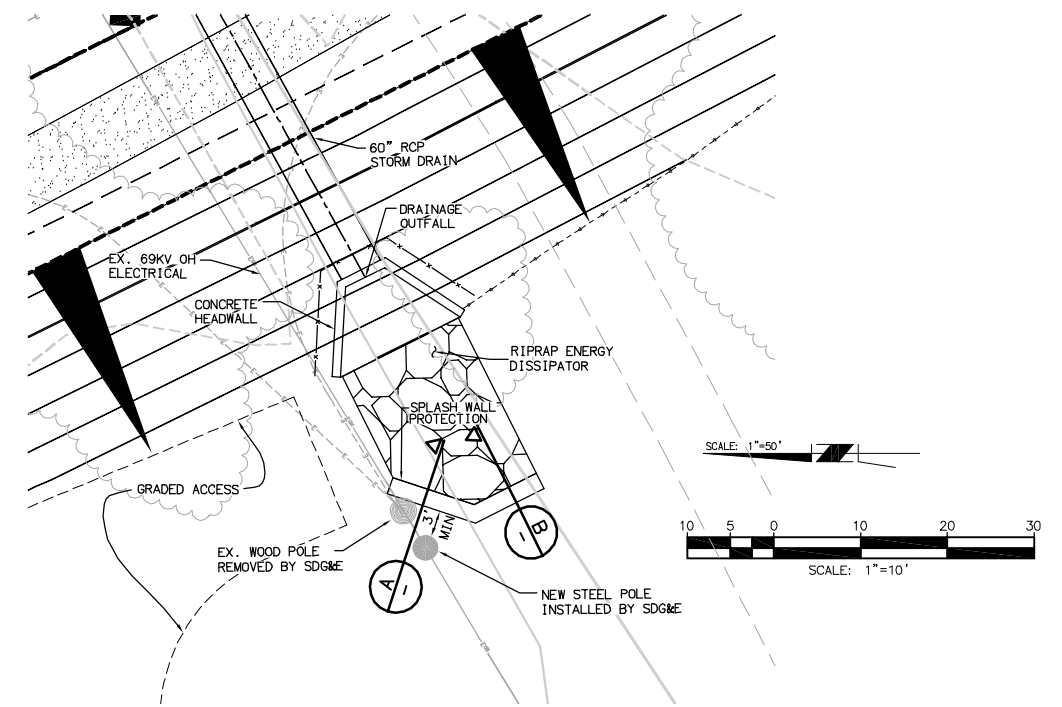
IMPROVEMENT PLANS

RBF CONSULTING, INC.  
ENGINEER: KEVIN VOGELSANG  
TELEPHONE: (658) 614-5000

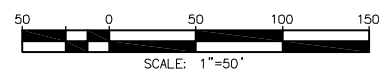
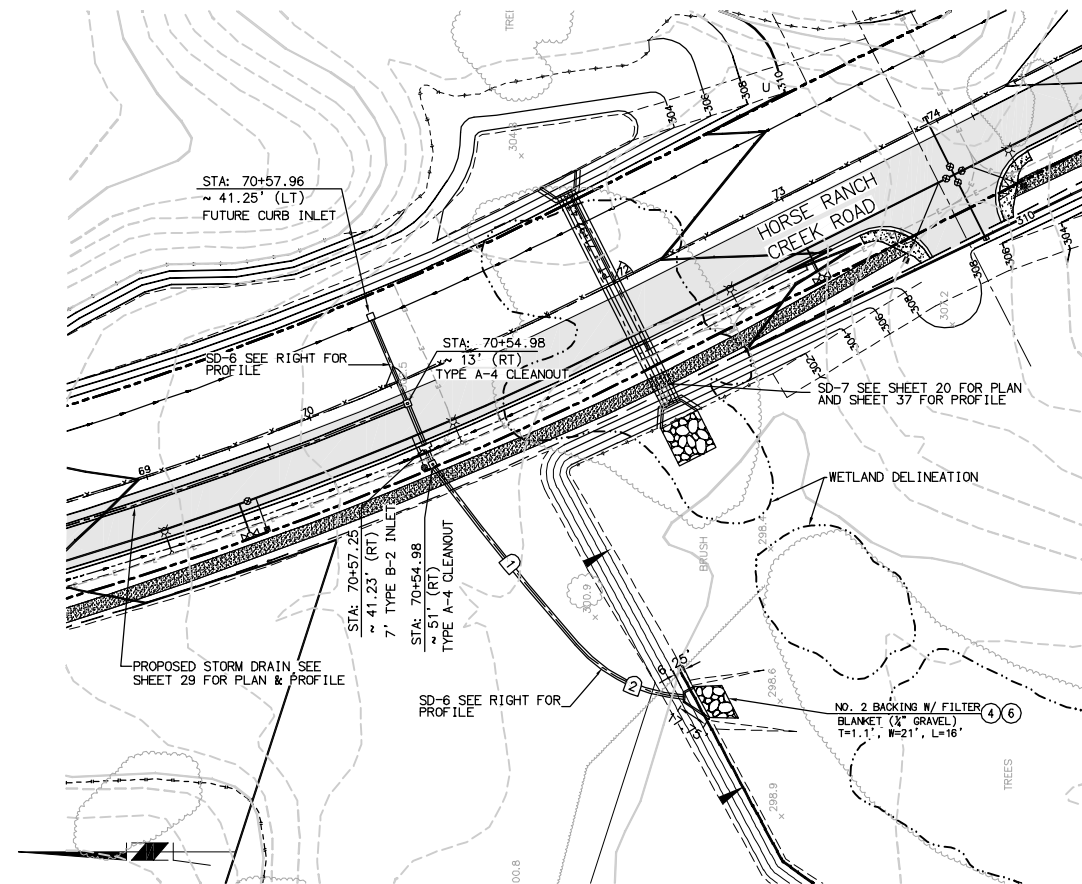
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**SD-6**  
STA: 70+61+49  
(SEE PLAN BELOW)



**SD-8 STORM DRAIN OUTLET DETAIL**  
SEE PLAN VIEW ON SHEET 30



STORM DRAIN DATA (1350-D)					
NO	BEARING/DELTA	RADIUS	LENGTH	TANGENT	NOTE
1	04°13'18"	1771.47'	130.53'	65.29'	30" RCP (PVT)
2	45°33'15"	90.00'	71.56'	37.79'	30" RCP (PVT)

**CONSTRUCTION NOTES**

- ④ WINGWALL PER COUNTY STD. DWG. D-34
- ⑥ RIP RAP PER COUNTY STD. DWG. D-40 (TYPE 2)



**COUNTY APPROVED CHANGES**

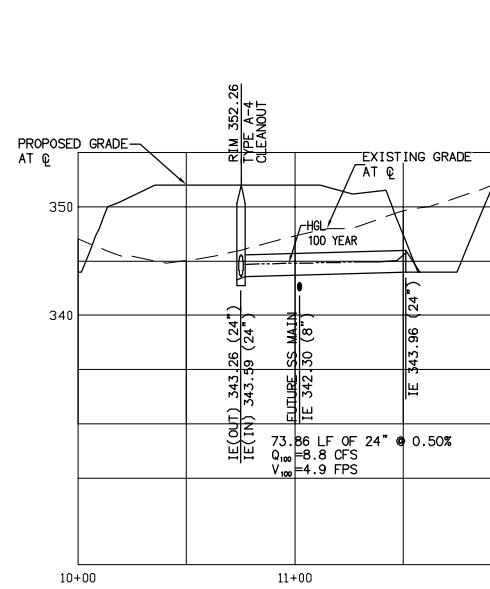
NO.	DESCRIPTION	APPROVED BY	DATE

PERMITS	
SPECIFIC PLAN NO.	UY 4718_GPA-09-006
NOTICE OF INTENT NO.	WDID# 9 37C358873
	UY 4718_SCH#2007011136
BENCH MARK	
DESCRIPTION:	2.25" CDOT DISC STAMPED SW 15/76 1980
LOCATION:	SW 15/76
RECORD FROM:	CALTRANS CONTROL MONUMENT DATA
ELEVATION:	306.49 DATUM: USC&GS DATUM OF 1929

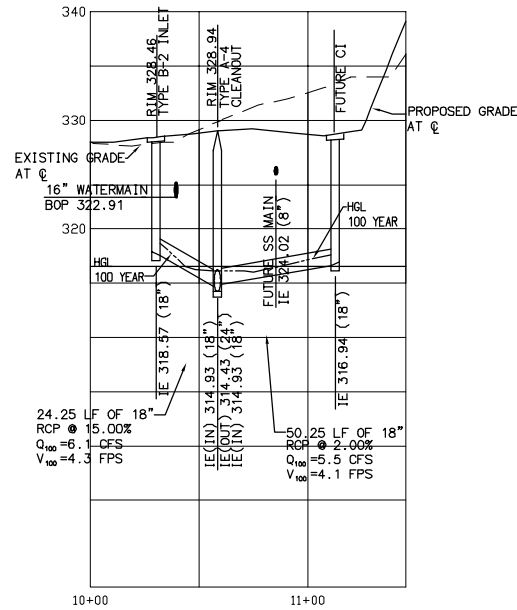
PRIVATE CONTRACT			
SHEET 36	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	40 SHEETS	
PLANS FOR THE IMPROVEMENT OF:			
<b>HORSE RANCH CREEK ROAD STORM DRAIN PLAN &amp; OUTLET DETAIL</b>			
CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)			
RECOMMENDED FOR APPROVAL:	APPROVED FOR: MOHAMAD FAKHRILODINE COUNTY ENGINEER	BY:	
Engineer of work: EXP. 3/31/11	CHECKED BY:	APPROVAL DATE:	IMPROVEMENT PLAN NO. CG-4718
KEVIN VOGELSANG RCE 41213			

IMPROVEMENT PLANS

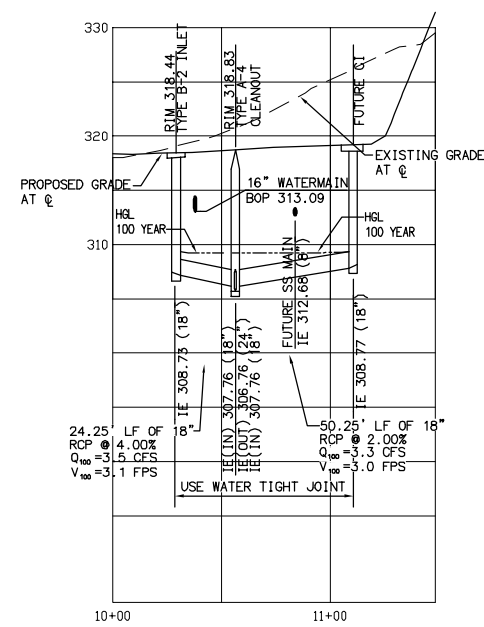
RFB CONSULTING, INC. ENGINEER: KEVIN VOGELSANG TELEPHONE: (619) 614-5000



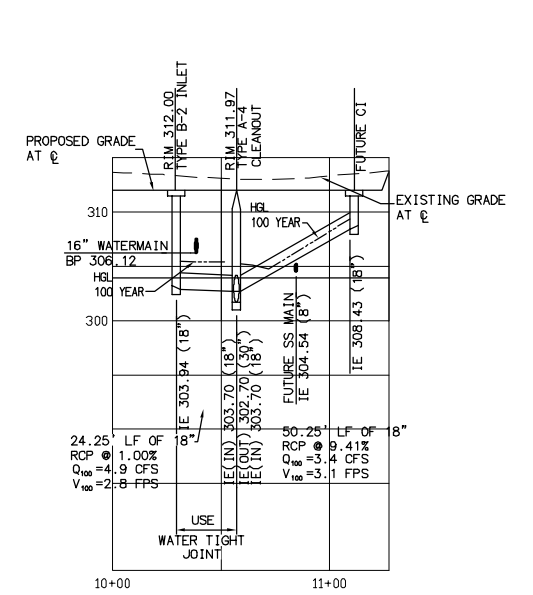
**SD-2**  
STA: 48+25.01  
SEE SHEET 28 FOR PLAN



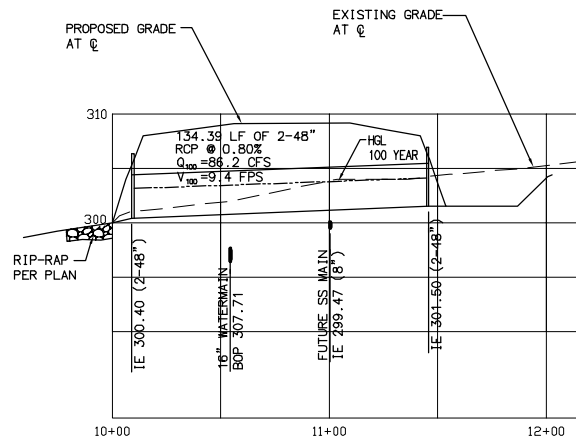
**SD-3**  
STA: 56+15.00  
SEE SHEET 28 FOR PLAN



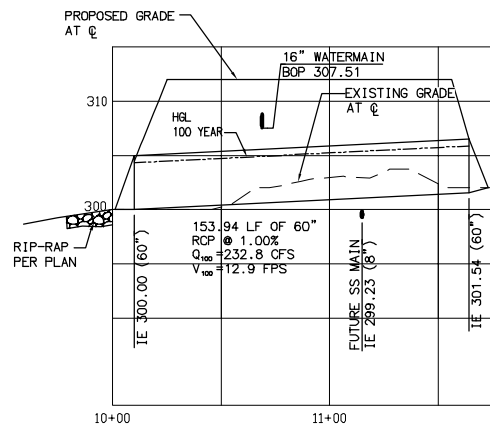
**SD-4**  
STA: 59+77.66  
SEE SHEET 29 FOR PLAN



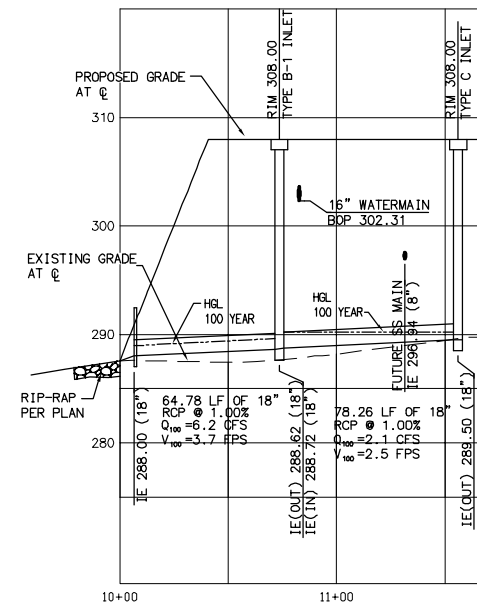
**SD-5**  
STA: 66+64.41  
SEE SHEET 29 FOR PLAN



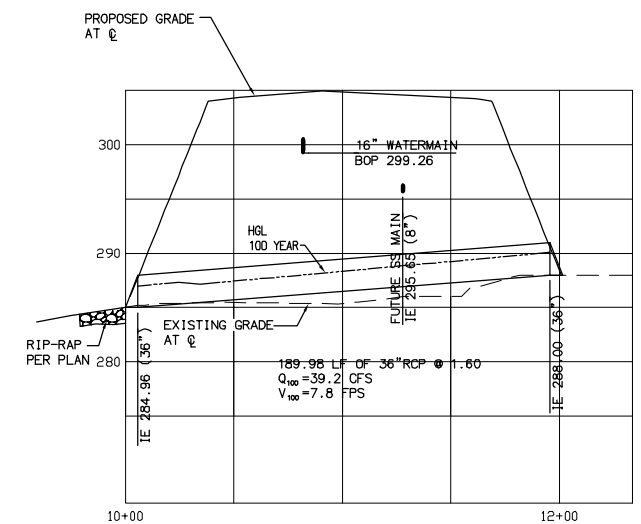
**SD-7**  
STA: 71+92.43  
SEE SHEET 30 FOR PLAN



**SD-8**  
STA: 76+49.06  
SEE SHEET 30 FOR PLAN



**SD-9**  
STA: 81+20.00  
SEE SHEET 30 FOR PLAN



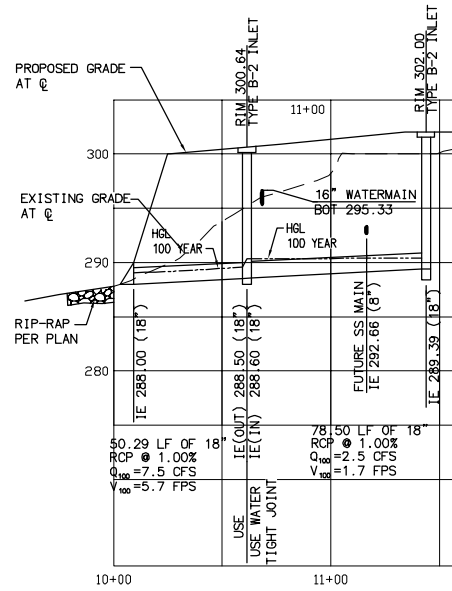
**SD-10**  
STA: 83+95.00  
SEE SHEET 31 FOR PLAN



COUNTY APPROVED CHANGES			
NO.	DESCRIPTION	APPROVED BY	DATE

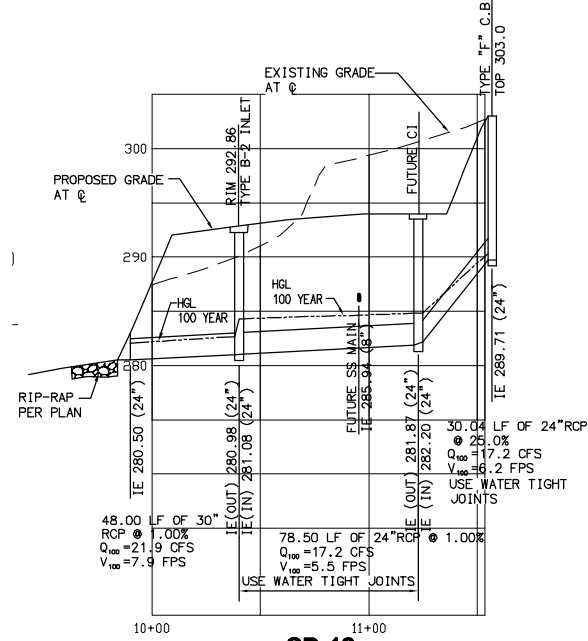
PERMITS	
SPECIFIC PLAN NO.	UY 4718_GPA-09-006
NOTICE OF INTENT NO.	WDID# 9 37C358873
	UY 4718_SCH#2007011136
BENCH MARK	
DESCRIPTION:	2.25" CDOT DISC STAMPED SW 15/76 1980
LOCATION:	SW 15/76
RECORD FROM:	CALTRANS CONTROL MONUMENT DATA
ELEVATION:	306.49 DATUM: USC&GS DATUM OF 1929

PRIVATE CONTRACT			
SHEET	COUNTY OF SAN DIEGO	40	
37	DEPARTMENT OF PUBLIC WORKS	SHEETS	
PLANS FOR THE IMPROVEMENT OF:			
<b>HORSE RANCH CREEK ROAD</b>			
<b>STORM DRAIN PLAN</b>			
CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)			
RECOMMENDED FOR APPROVAL:	APPROVED FOR: MOHAMAD FAKHRILODINE COUNTY ENGINEER		
BY:			
Engineer of work: EXP. 3/31/11	CHECKED BY:	IMPROVEMENT PLAN NO.	
KEVIN VOGELSANG RCE 41213	APPROVAL DATE:	<b>CG-4718</b>	



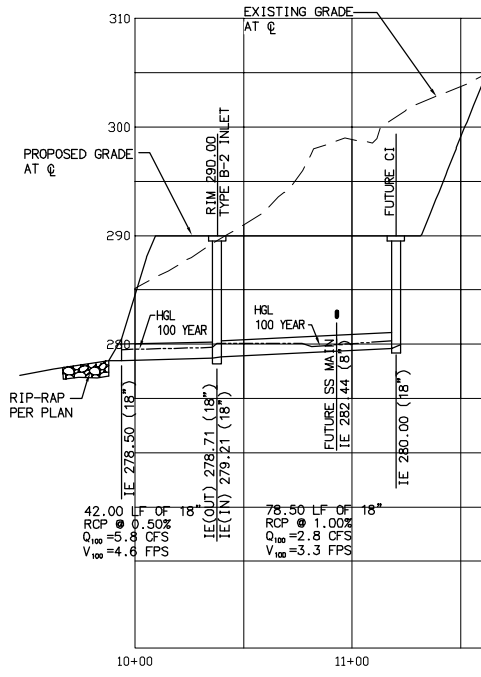
**SD-11**

STA: 87+50.00  
SEE SHEET 31 FOR PLAN



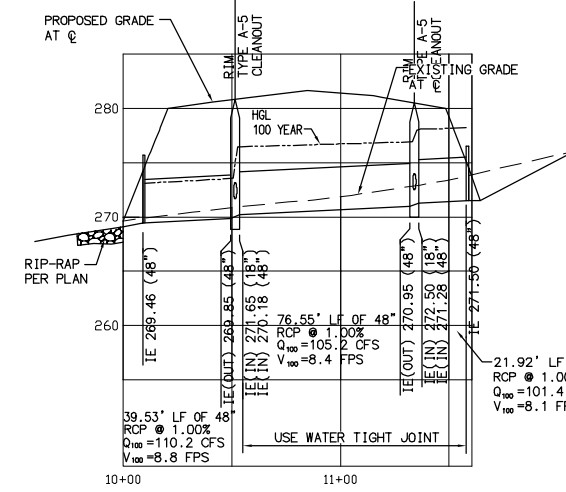
**SD-12**

STA: 93+80.00  
SEE SHEET 31 FOR PLAN



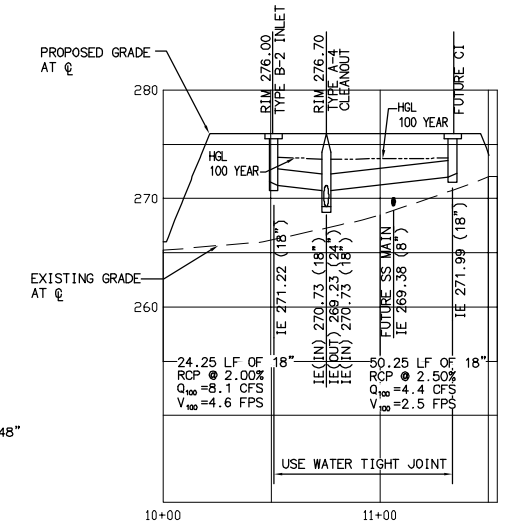
**SD-13**

STA: 96+75.00  
SEE SHEET 32 FOR PLAN



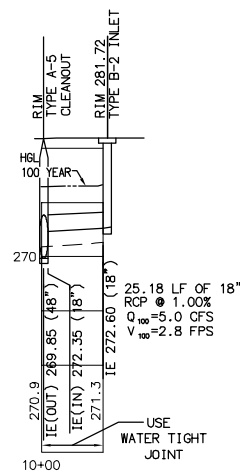
**SD-15**

STA: 105+30.16  
SEE SHEET 32 FOR PLAN



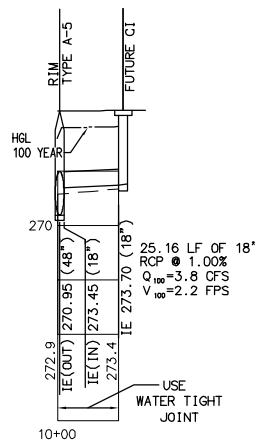
**SD-16**

STA: 110+48.50  
SEE SHEET 33 FOR PLAN



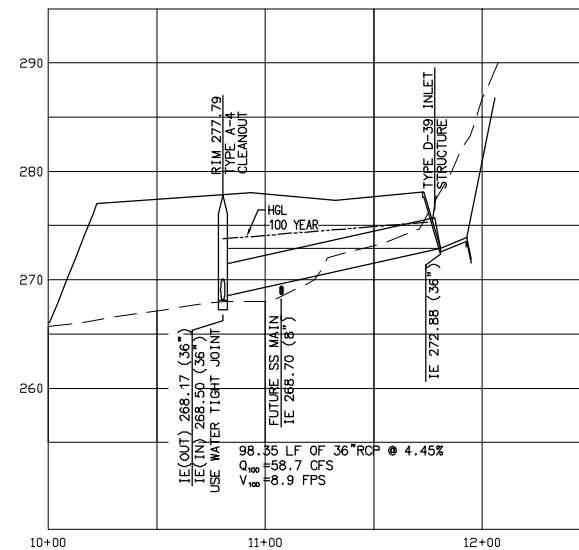
**SD-15-A**

SEE SHEET 32 FOR PLAN



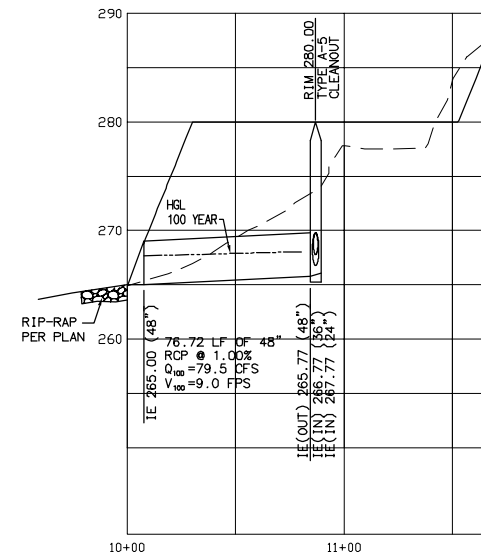
**SD-15-B**

SEE SHEET 32 FOR PLAN



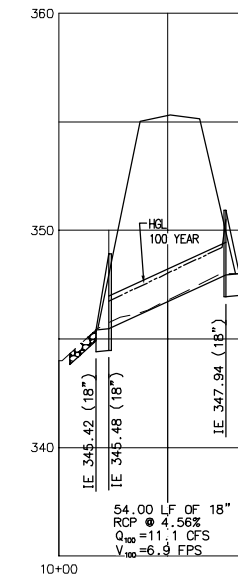
**SD-17**

STA: 112+00.00  
SEE SHEET 33 FOR PLAN



**SD-18**

STA: 114+16.00  
SEE SHEET 33 FOR PLAN



**SD-21**

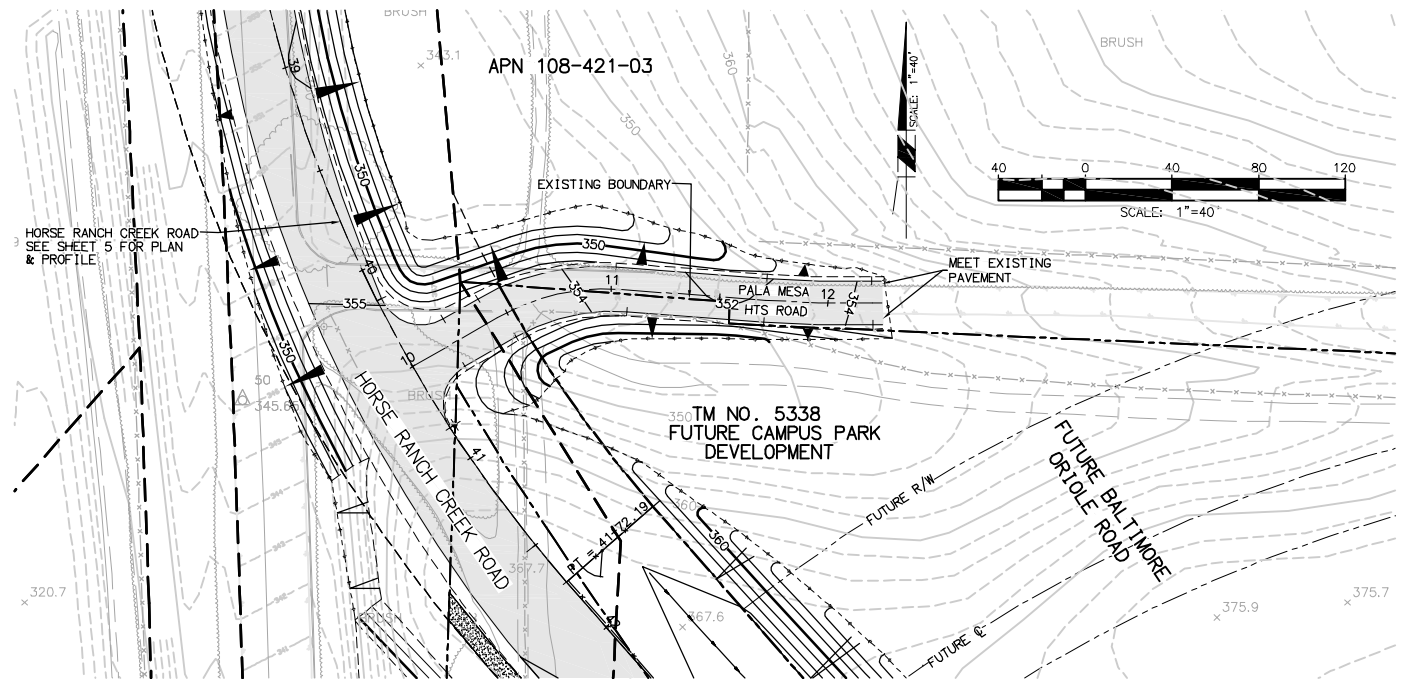
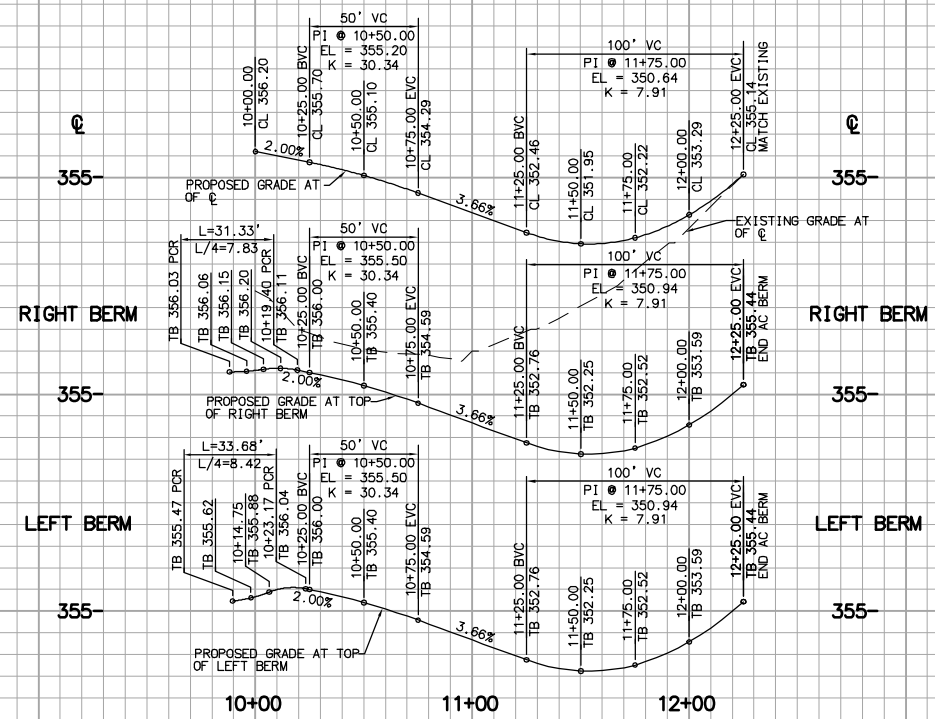
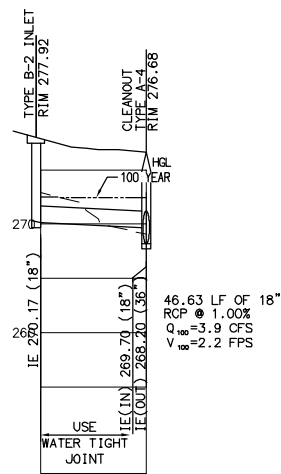
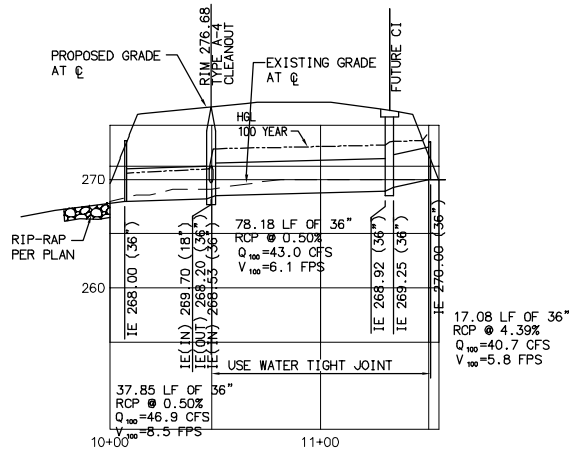
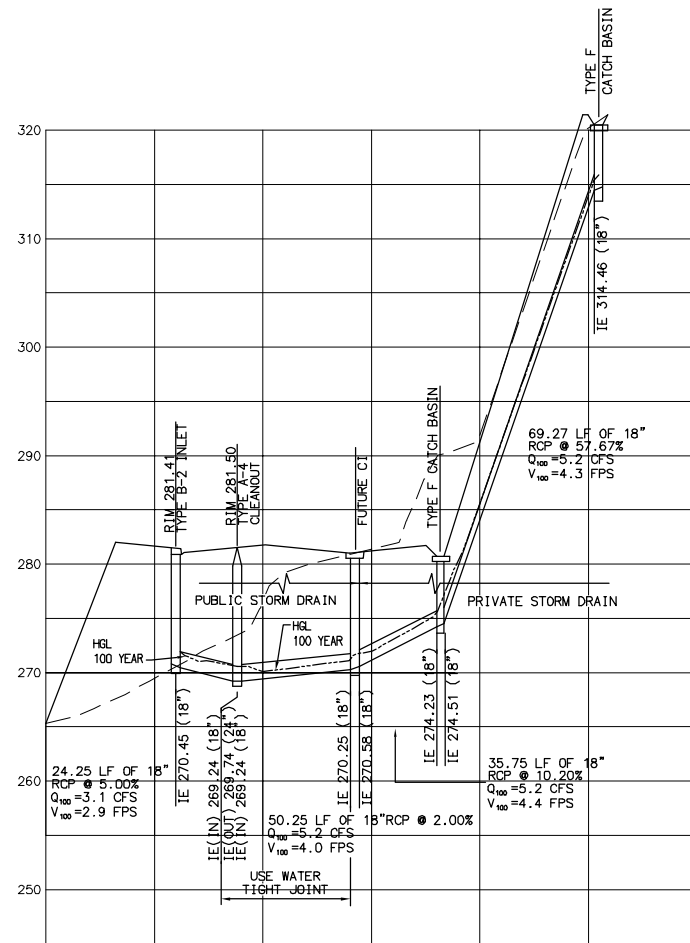
PALA MESA HEIGHTS ROAD  
SEE SHEET 27 FOR PLAN



COUNTY APPROVED CHANGES			
NO.	DESCRIPTION	APPROVED BY	DATE

PERMITS	
SPECIFIC PLAN NO.	UY 4718_GPA-09-006
NOTICE OF INTENT NO.	WDID# 9 37C358873
	UY 4718_SCH#2007011136
BENCH MARK	
DESCRIPTION:	2.25" CDOT DISC STAMPED SW 15/76 1980
LOCATION:	SW 15/76
RECORD FROM:	CALTRANS CONTROL MONUMENT DATA
ELEVATION:	306.49 DATUM: USC&GS DATUM OF 1929

PRIVATE CONTRACT		
SHEET <b>38</b>	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	<b>40</b> SHEETS
PLANS FOR THE IMPROVEMENT OF: <b>HORSE RANCH CREEK ROAD</b> STORM DRAIN PLAN		
CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)		
RECOMMENDED FOR APPROVAL:	APPROVED FOR: MOHAMAD FAKHRILODINE COUNTY ENGINEER	BY:
Engineer of work: EXP. 3/31/11	CHECKED BY:	IMPROVEMENT PLAN No. <b>CG-4718</b>
KEVIN VOGELSANG RCE 41213	APPROVAL DATE:	



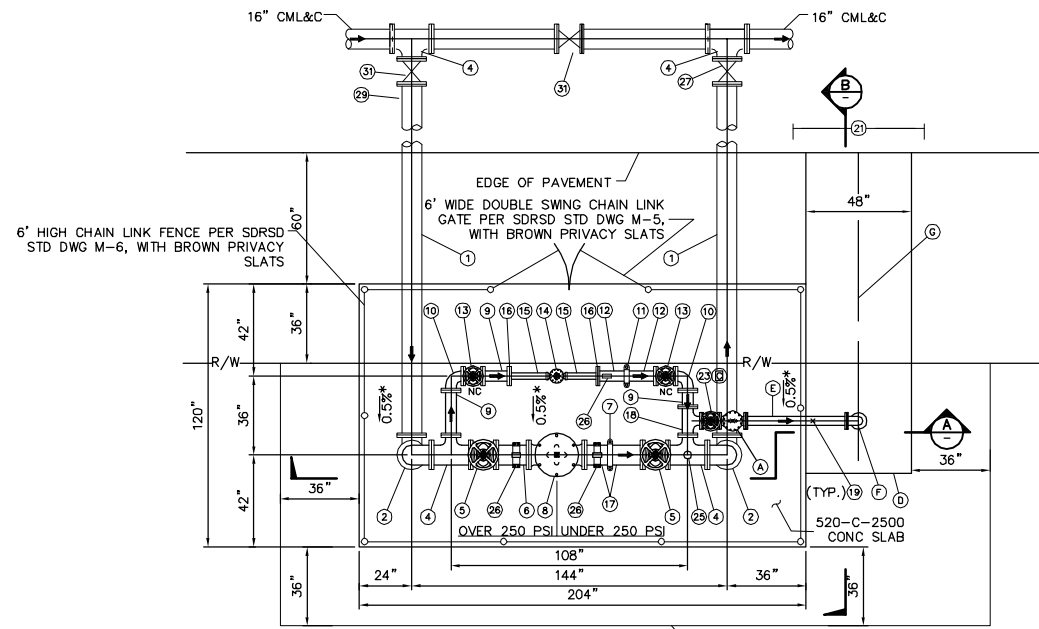
COUNTY APPROVED CHANGES			
NO.	DESCRIPTION	APPROVED BY	DATE

PERMITS	
SPECIFIC PLAN NO.	UY 4718_GPA-09-006
NOTICE OF INTENT NO.	WDID# 9_37C358873
	UY 4718_SCH#2007011136
BENCH MARK	
DESCRIPTION:	2.25" CDOT DISC STAMPED SW 15/76 1980
LOCATION:	SW 15/76
RECORD FROM:	CALTRANS CONTROL MONUMENT DATA
ELEVATION:	306.49 DATUM: USC&GS DATUM OF 1929

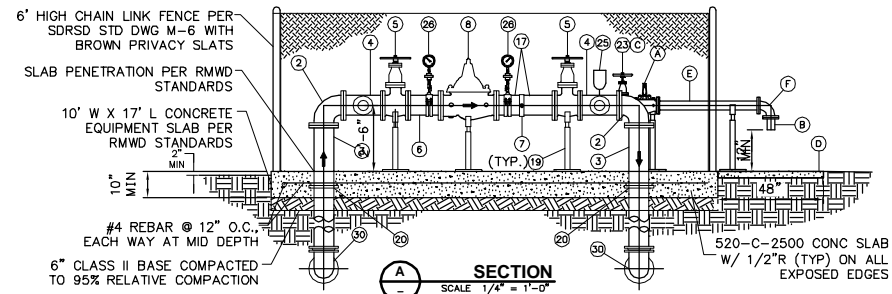
PRIVATE CONTRACT			
SHEET	COUNTY OF SAN DIEGO	40	
39	DEPARTMENT OF PUBLIC WORKS	SHEETS	
PLANS FOR THE IMPROVEMENT OF:			
<b>HORSE RANCH CREEK ROAD</b>			
<b>STORM DRAIN PLAN</b>			
CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)			
RECOMMENDED FOR APPROVAL:	APPROVED FOR:	MOHAMAD FAKHRI/ODINE COUNTY ENGINEER	
BY:			
Engineer of work: EXP. 3/31/11	CHECKED BY:	IMPROVEMENT PLAN No.	
KEVIN VOGELSANG RCE 41213	APPROVAL DATE:	<b>CG-4718</b>	



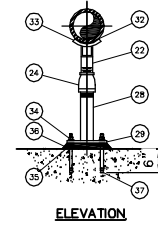
H:\PDATA\25102702\CADD\LAND\VD\V STREET IMPROVEMENTS\TITLE SHEET\KEY MAP DETAILS\2702-DT-040.DWG AROCHA 11/1/2010 4:18 PM



**PLAN**  
SCALE 1/4" = 1'-0"  
EASEMENT GRANTED TO RMWD PER DOC. DATED \_\_\_\_\_

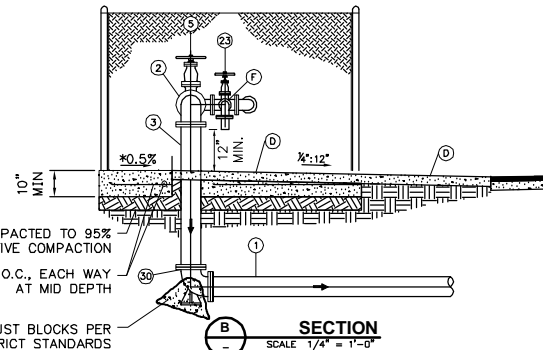


**SECTION**  
SCALE 1/4" = 1'-0"

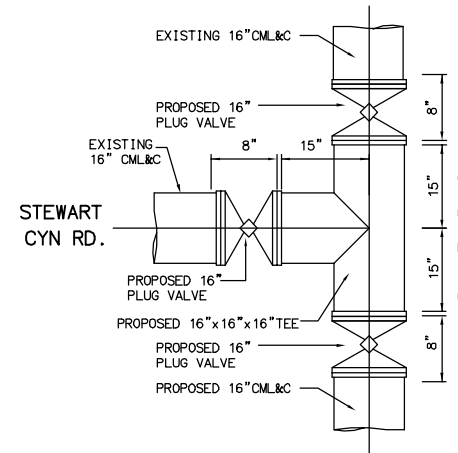


- CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO PURCHASE AND FABRICATION
- PAINT PER DISTRICT SPECIFICATIONS AFTER FABRICATION

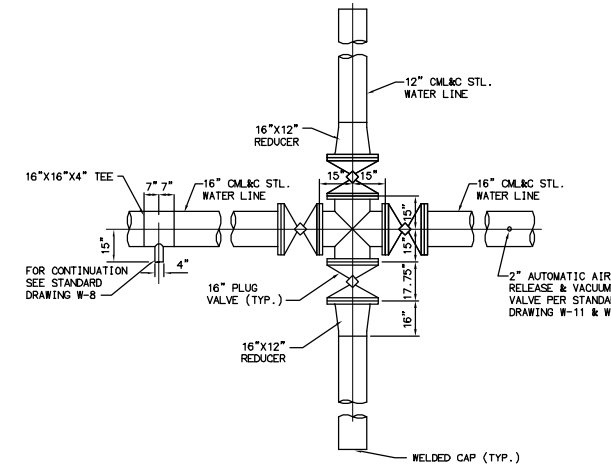
**ADJUSTABLE PIPE SUPPORT DETAIL**  
NOT TO SCALE



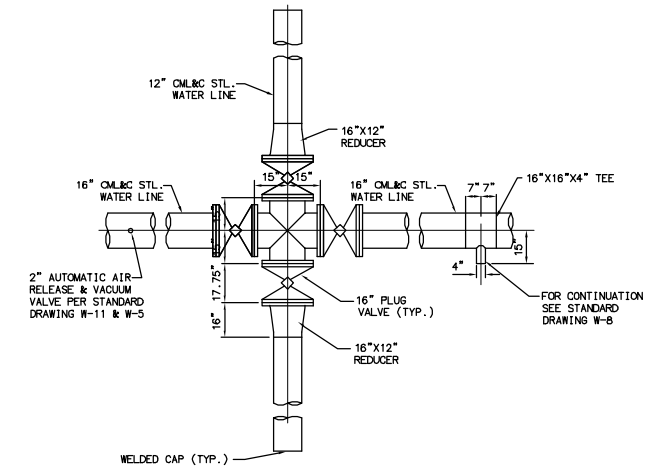
**SECTION**  
SCALE 1/4" = 1'-0"



**WATER CONNECTION DETAIL**  
N.T.S.



**WATER CROSS DETAIL A**  
N.T.S.



**WATER CROSS DETAIL B**  
N.T.S.

**LEGEND**

- |  |   |   |
|--|---|---|
| 1 8" OML&C STEEL PIPE SPOOL  | 14 2 1/2" SCREWED PRESSURE REDUCING VALVE, DUCTILE IRON BODY, STAINLESS STEEL TRIM INTERIOR AND EXTERIOR EPOXY COATING, 30 - 300 PSI SPRING RANGE | 26 3 1/2" DIA. PRESSURE GAUGE WITH BRASS SNUBBER, BRASS CORP STOP AND FITTINGS ATTACHED WITH BRONZE TAPPING COLLAR, DO NOT THREAD INTO DIP PIPE WALL. |
| 2 8" DIP FLANGED 90° ELBOW   | 15 2 1/2" SCH 40 EPOXY LINED STEEL PIPE   | 27 8" FLANGED OR RESTRAINED MECHANICAL JOINT GATE VALVE FOR BURIED SERVICE CLASS 250  |
| 3 8" OML&C PIPE SPOOL, FLANGED X FLANGED   | 16 4" X 2 1/2" COMPANION FLANGE   | 28 3" GALVANIZED STEEL PIPE   |
| 4 16"x16"x8" DIP FLANGED TEE   | 17 8" FLANGED X GROOVED END DIP SPOOL   | 29 9" DIA. X 3" THREADED FLANGE, 150 LB, GALVANIZED   |
| 5 8" FLANGED RESILIENT SEAT GATE VALVE WITH HANDWHEEL OPERATOR   | 18 4"x4"x3" DIP FLANGED TEE   | 30 8" DIP BEND X MJ BASE CELL 90° BEND  |
| 6 8" DIP FLANGED SPOOL   | 19 PIPE SUPPORT SEE DETAIL 1, THIS SHEET  | 31 16" PLUG VALVE   |
| 7 8" VICTAULIC COUPLING  | 20 MID SPAN RESTRAINT SYSTEM  | 32 1/4" THICK NEOPRENE LINER  |
| 8 8" FLANGED PRESSURE REDUCING VALVE, WITH 150 POUND FLANGES, DUCTILE IRON BODY, STAINLESS STEEL TRIM, INTERIOR AND EXTERIOR EPOXY COATING, 30 - 300 PSI SPRING RANGE, 70 - 140 PSI RANGE FOR BYPASS | 21 REMOVE AND REPLACE PAVEMENT IF NECESSARY TO CONSTRUCT NEW CONCRETE SPILLWAY  | 33 SADDLE TYPE PIPE SUPPORT   |
| 9 4" DIP FLANGED PIPE SPOOL  | 22 2 1/2" GALVANIZED STEEL PIPE   | 34 STAINLESS STEEL 316 NUT AND WASHER (4 REQUIRED)  |
| 10 4" DIP FLANGED 90° ELBOW  | 23 3" DIP BLIND FLANGE  | 35 STAINLESS STEEL 316 LEVELING NUT AND WASHER (4 REQUIRED)   |
| 11 4" VICTAULIC COUPLING   | 24 ADJUSTABLE THREADED COLLAR, GALVANIZED   | 36 1" THICK MIN. NON-SHRINK GROUT   |
| 12 4" DIP FLANGED X GROOVED END PIPE SPOOL   | 25 1" AIR VAC VALVE, WITH TAPPING COLLAR AND BRASS ISOLATION VALVE, LOCATION TO BE DETERMINED IN FIELD  | 37 1/2" DIA. STAINLESS STEEL 316 ANCHOR BOLT (4 REQUIRED)   |
| 13 4" FLANGED RESILIENT SEAT GATE VALVE WITH HANDWHEEL OPERATOR WITH PIPE SUPPORT PER DETAIL 1, THIS SHEET   |   |   |

**PRESSURE RELIEF VALVE LEGEND**

NOTE: PRESSURE RELIEF VALVE AND CONCRETE DISCHARGE STRUCTURE TO BE INSTALLED ONLY AS DIRECTED BY DISTRICT ENGINEER

- |  |
|--|
| A 3" FLANGED PRESSURE RELIEF VALVE, WITH 150 POUND FLANGES, DUCTILE IRON BODY, STAINLESS STEEL TRIM, INTERIOR AND EXTERIOR EPOXY COATING, 100 - 300 PSI SPRING RANGE |
| B 3" DIP FLANGED X PE SPOOL (LENGTH TO SUIT)   |
| C 3" PLUG VALVE WITH HAND WHEEL  |
| D 520-C-2500 CONCRETE SPILLWAY   |
| E 3" DIP FLANGED X FLANGED SPOOL   |
| F 3" DIP FLANGED 90° ELBOW   |
| G FLOW LINE OF CONCRETE SPILLWAY, CONCRETE SHALL SLOPE AT 1.0% FROM EDGES TO FLOW LINE   |



**FIRE AGENCY**  
NORTH COUNTY  
FIRE PROTECTION DISTRICT  
APPROVED BY: \_\_\_\_\_  
DATE: \_\_\_\_\_



Reviewed: District Engineer

APPROVED CHANGES			
No.	Description	Approved By	Date

COUNTY APPROVED CHANGES			
No.	DESCRIPTION	APPROVED BY	DATE

**PERMITS**  
SPECIFIC PLAN NO. UY 4718\_GPA-09-006  
NOTICE OF INTENT NO. WJID# 9\_37C358873  
UY 4718\_SCH#2007011136

**BENCH MARK**  
DESCRIPTION: 2.25" CDOT DISC STAMPED SW 15/76 1980  
LOCATION: SW 15/76  
RECORD FROM: CALTRANS CONTROL MONUMENT DATA  
ELEVATION: 306.49 DATUM: USC&GS DATUM OF 1929

NOTE FROM COUNTY OF SAN DIEGO:  
PLAN SHOWN FOR BONDING PURPOSES ONLY

**PRIVATE CONTRACT**

SHEET 40 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS SHEETS 40

PLANS FOR THE IMPROVEMENT OF:  
**HORSE RANCH CREEK ROAD WATER DETAILS**

CALIFORNIA COORDINATE INDEX: 2075-6285 (CC83) 435-1783 (CC27)

RECOMMENDED FOR APPROVAL: \_\_\_\_\_ APPROVED FOR: MOHAMAD FAKHRIDDINE COUNTY ENGINEER  
BY: \_\_\_\_\_

Engineer of work: EXP. 3/31/11 KEVIN VOGELSSANG RCE 41213  
CHECKED BY: \_\_\_\_\_ IMPROVEMENT PLAN No. CG-4718  
APPROVAL DATE: \_\_\_\_\_

IMPROVEMENT PLANS

ENGINEER: RBF CONSULTING, INC. (656) 614-5000