

STORM DRAIN NOTES:

- ALL CONCRETE IN REINFORCED CONCRETE STRUCTURES MUST BE 3250 POUNDS PER SQUARE INCH IN 28 DAYS; TYPE OF PORTLAND CEMENT CONCRETE TO BE DETERMINED BY OCPF & RD MATERIALS LAB.
- ALL PIPE LENGTHS ARE HORIZONTAL PROJECTIONS, UNLESS OTHERWISE SHOWN.
- FOR TRENCH EXCAVATIONS IN NATIVE SOIL, SHORING SHALL BE PROVIDED TO SATISFY STATE OF CALIFORNIA SAFETY REQUIREMENTS.
- PIPE CONSTRUCTION IN FILL AREA MUST BE COORDINATED WITH THE GRADING TO INSURE THAT WHEN THE FILL OPERATION HAS BEEN COMPLETED AT GRADE THERE IS A MINIMUM 2 FEET OF FILL ABOVE THE TOP OF PIPE.
- ALL WORK MUST BE IN CONFORMANCE WITH THE CURRENT ORANGE COUNTY PF & RD STANDARD SPECIFICATIONS AND MUST BE KEPT ON THE JOB SITE AT ALL TIMES.
- THE CONTRACTOR MUST NOTIFY THE OCPF & RD INSPECTOR AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION BY TELEPHONING 567-7800, OR BY WRITING THE ORANGE COUNTY P.F. & R.D., ATTN: CONSTRUCTION, P.O. BOX 486, SANTA ANA, CA 92702.
- ALL FILLS MUST BE COMPACTED TO 90% RELATIVE COMPACTION AS DETERMINED BY THE CALIFORNIA TEST METHOD NO. 216, 1978 "FIVE LAYER METHOD." ALL BACKFILL MUST BE FREE OF UNSUITABLE MATERIAL.
- ALL SURVEYING REQUIRED FOR VERTICAL AND HORIZONTAL ALIGNMENT MUST BE PROVIDED BY THE CONTRACTOR OR DEVELOPER AND SUFFICIENT REFERENCE STAKING MUST BE IN ACCORDANCE WITH THE REQUEST OF THE OCPF & RD INSPECTOR.
- ALL REINFORCED CONCRETE PIPE MUST BE BEDDED IN ACCORDANCE WITH PIPE BEDDING DETAIL PER OCPF & RD STANDARD PLAN 1319.
- CONTRACTOR WILL NOTIFY OCPF & RD MATERIALS LAB (PHONE #567-7805) 48 HOURS PRIOR TO D-LOAD TESTING OF R.C.P. FOR VERIFICATION OF RESULTS.
- PRIOR TO THE PLACEMENT OF STORM DRAIN IMPROVEMENTS, THE DEVELOPER'S SOIL ENGINEER SHALL CERTIFY IN WRITING TO THE PF & RD INSPECTOR THAT THE STORM DRAIN'S SUBGRADE IS OF ADEQUATE STRENGTH TO SUPPORT THE STRUCTURES AND ANY ANTICIPATED LOADS.
- PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE DEVELOPER'S CONTRACTOR SHALL OBTAIN A PERMIT FROM THE STATE DIVISION OF INDUSTRIAL SAFETY. A COPY OF THE PERMIT SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.
- WHENEVER APPLICABLE, THE DEVELOPER SHALL OBTAIN A PERMIT FROM THE STATE DEPARTMENT OF FISH AND GAME IN ACCORDANCE WITH SECTION 1602 OF THE CALIFORNIA FISH AND GAME CODE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL STEEL THAT IS TO BE CONTINUOUS SHALL BE LAPPED A MINIMUM OF 45 BAR DIAMETERS.
- ALL MATERIALS TESTING FOR THE DRAINAGE FACILITIES SHALL BE PROVIDED BY THE OCPF & RD MATERIALS LAB IN ACCORDANCE WITH THE NUMBER, LOCATION, AND FREQUENCY REQUESTED BY THE OCPF & RD INSPECTOR.
- CHAMFER ALL EXPOSED EDGES OF CONCRETE 3/4" MIN.
- A PERMIT FOR WORK WITHIN EXISTING STREET RIGHT OF WAY IS REQUIRED FROM THE OCPF & RD FOR ANY ENCROACHMENT NECESSARY FOR CONSTRUCTION IN PUBLIC RIGHT OF WAY.
- LENGTH OF MANHOLE STRUCTURES MAY BE INCREASED TO MEET PIPE ENDS AT OPTION OF CONTRACTOR AS LONG AS REINFORCING STEEL IS CONTINUED AS REQUIRED. ANY CHANGE IN SPUR LOCATION MUST BE APPROVED BY THE ENGINEER.
- FLOOR OF MANHOLE STRUCTURE SHALL BE STEEL TROWELLED TO SPRING LINE.
- BODY OF MANHOLE STRUCTURE, INCLUDING SPUR, MUST BE POURED IN ONE CONTINUOUS OPERATION, EXCEPT THAT CONSTRUCTION JOINT AT THE SPRING LINE WITH A LONGITUDINAL KEYWAY IS PERMITTED.
- ALL REINFORCING BARS MUST BE SECURELY HELD IN PLACE IN THE FORMS. TWO-WAY MATS OF STEEL MUST BE WIRE TOGETHER BOTH WAYS AT ALTERNATE INTERSECTIONS.
- STORM DRAIN BACKFILL FOR ALL FACILITIES WITHIN STREET RIGHT OF WAY IS TO BE PLACED AND COMPACTED UNDER OCPF & RD INSPECTION AND MEET OR EXCEED OCPF & RD MINIMUM STANDARDS.
- ALL PIPE TO BE BANDED AND GROUTED.
- RCP SHALL COMPLY WITH ALL A.S.T.M. APPLICABLE STANDARDS.
- WORKING WITHIN ORANGE COUNTY FLOOD CONTROL FACILITIES IS RESTRICTED TO THE PERIOD OF APRIL 15 TO OCTOBER 15.
- ALL CATCH BASINS AND LOCAL DEPRESSIONS SHALL BE CONSTRUCTED PER STREET IMPROVEMENT PLANS IN ACCORDANCE WITH OCEMA STANDARD PLANS.
- THE CONTRACTOR SHALL CONDUCT CONSTRUCTION OPERATIONS IN SUCH A MANNER THAT STORM OR OTHER WATERS MAY PROCEED UNINTERRUPTED ALONG THEIR EXISTING STREET OF DRAINAGE COURSES.
- IN THE COURSE OF WATER CONTROL, THE CONTRACTOR SHALL CONDUCT CONSTRUCTION OPERATIONS TO PROTECT WATERS FROM POLLUTION WITH FUELS, OILS, BIFUMENS, OR HARMFUL MATERIALS.
- LOCAL DEPRESSIONS AND DECKS OF CURB INLETS SHALL NOT BE POURED UNTIL ADJACENT CURB AND GUTTER HAS BEEN POURED.
- IF A DRIVEWAY ENCROACHES WITHIN A LOCAL DEPRESSION TRANSITION, USE EMA STANDARD PLAN # 1308 - TYPE A.
- CATCH BASIN SUPPORTS SHALL BE CONSTRUCTED PER DETAIL "A" AS SHOWN ON PF & RD STD. PLAN NO. 1306, SHEET 2 OF 3.

IMPROVEMENT PLANS FOR
A PORTION OF TRACT 16063

BLOCK NO: 5154 MODULE NO'S: 28, 29, 38 & 39

WINDMILL AVENUE, TERRACE ROAD, & CORPORATE DRIVE

GENERAL NOTES:

- THIS NOTE HEREIN INCORPORATES, BY REFERENCES, THOSE GENERAL NOTES NUMBERED 1 THROUGH 22 OF PUBLIC FACILITIES & RESOURCES DEPARTMENT (PF&RD) STANDARD PLAN 1801, 1996 EDITION.
- THE DEVELOPER/CONTRACTOR SHALL HAVE A COPY OF THE CURRENT PF&RD STANDARD PLANS ON THE CONSTRUCTION SITE AT ALL TIMES.
- THE DEVELOPER SHALL TELEPHONE PF&RD/CONSTRUCTION AT 714-567-7800 AT LEAST 24 HOURS PRIOR TO STARTING CONSTRUCTION WORK SUBJECT TO PF&RD INSPECTION.
- PR&RD ENCROACHMENT PERMIT REQUIRED. COUNTY APPROVED PLANS DO NOT RELIEVE CONTRACTOR/DEVELOPER FROM RESPONSIBILITY TO OBTAIN PUBLIC PROPERTY PERMIT WHICH SHALL BE AVAILABLE ON THE JOB AT ALL TIMES WORK IS BEING ACCOMPLISHED IN THE PUBLIC RIGHT OF WAY.
- ALL CONCRETE CURB & GUTTER FLOW LINES WITH LESS THAN 1% GRADE SHALL BE WATER TESTED PRIOR TO FINAL FINISHING TO INSURE PROPER DRAINAGE WITHOUT UNACCEPTABLE HIGH OR LOW SPOTS.
- ALL UTILITY TRENCH BACKFILL AND COMPACTION INSPECTION OUTSIDE THE LIMITS OF DEDICATED STREET RIGHT OF WAY SHALL BE PERFORMED BY PLANNING & DEVELOPMENT SERVICES.
- ALL DAMAGED CONCRETE SIDEWALKS OR CURBS SHALL BE SAW CUT TO THE NEAREST TRANSVERSE SCORE MARK OR ADJUSTABLE CONTROL POINT OR WEAKENED PLAN JOINT AND REPLACED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF PF&RD STANDARD PLANS.
- DEVELOPER SHALL MAINTAIN ADJACENT STREETS IN A NEAT, CLEAN, DUST-FREE AND SANITARY CONDITION AT ALL TIMES AND TO THE SATISFACTION OF COUNTY'S INSPECTOR. THE ADJACENT STREETS SHALL BE KEPT CLEAN OF DEBRIS, WITH DUST AND OTHER NUISANCE BEING CONTROLLED AT ALL TIMES. DEVELOPER SHALL BE RESPONSIBLE FOR ANY CLEAN-UP ON ADJACENT STREETS AFFECTED BY HIS CONSTRUCTION. METHOD OF STREET CLEANING SHALL BE BY DRY SWEEPING OF ALL PAVED AREAS. NO STOCKPILING OF BUILDING MATERIALS WITHIN THE COUNTY RIGHT OF WAY WITHOUT PERMISSION OF COUNTY'S INSPECTOR.
- PRIOR TO FINAL ACCEPTANCE OF STREET IMPROVEMENTS, ALL STREET PAVEMENT, STRIPING, AND STENCILING WITHIN THE PERIMETER OF THE CONSTRUCTION PROJECT WILL BE RESTORED TO A "LIKE NEW" CONDITION, IN A MANNER MEETING THE APPROVAL OF THE DIRECTOR OF PF&RD. ALL STRIPING AND STENCILING SHALL BE ACCORDING TO STANDARD PLAN NO. 1801, NOTE 18.
- TRAFFIC SHALL BE MAINTAINED AT ALL TIMES AND SHALL BE PROTECTED WITH ADEQUATE BARRICADES, LIGHTS, SIGNS, AND WARNING DEVICES AS PER THE CURRENT STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, MANUAL OF TRAFFIC CONTROLS AND TO THE DIRECTIONS OF THE COUNTY'S INSPECTOR.
- PF&RD STANDARD PLANS SHALL TAKE PRECEDENCE OVER ANY CONFLICTS EXCEPT FOR STANDARD PLANS AFFECTING UTILITY COMPANIES, IF THEIR STANDARDS ARE MORE STRINGENT.
- ANY UTILITIES UNDER PAVED AREAS OF PRIVATE STREETS SHALL HAVE A MINIMUM OF 30" COVER AND DEVELOPER SHALL PROVIDE PRIVATE LABORATORY COMPACTION CERTIFICATION FOR ALL UNDERGROUND UTILITIES PRIOR TO ANY PAVING. DEVELOPER SHALL SET UP A MEETING WITH THE INSPECTOR AND THE PRIVATE LABORATORY PRIOR TO ANY TESTING.
- A.C. PAVEMENT PLACED UNDER CARPORTS/ROOFS SHALL BE SURRY SEALED IN ACCORDANCE WITH SECTION 302-4 "EMULSION - AGGREGATE SLURRY" OR THE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION, 1997 EDITION, BEFORE FINAL ACCEPTANCE.
- ALL TRAFFIC MARKING AND STRIPING SHALL BE STENCILS WHICH CONFORM WITH FEDERAL TRANSPORTATION METRIC STANDARDS.
- NO CONCENTRATED FLOWS ACROSS ASPHALT PAVEMENT WITHOUT COUNTY INSPECTOR'S APPROVAL.
- SURVEY MONUMENTS SHALL BE PRESERVED AND REFERENCED BEFORE CONSTRUCTION AND REPLACED AFTER CONSTRUCTION PURSUANT TO SECTION 8771 OF THE BUSINESS AND PROFESSIONAL CODE.

EXISTING UNDERGROUND STRUCTURES:

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES OR CONDUITS SHOWN ON THESE PLANS ARE OBTAINED BY SEARCH OF THE AVAILABLE RECORDS TO THE BEST OF OUR KNOWLEDGE. THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE THE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT NOT SHOWN ON THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK. CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE PLANS.

NOTICE TO CONTRACTOR

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, THE ENGINEER AND THE COUNTY OF ORANGE HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF OWNER, ENGINEER, OR COUNTY OF ORANGE. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK. CONTRACTOR SHALL VERIFY WITH THE PRIOR TO CONSTRUCTION OF ANY CONCRETE STRUCTURE, THE CONTRACTOR SHALL VERIFY WITH THE SOILS ENGINEER, THE TYPE OF CONCRETE RECOMMENDED.

SMWD SEWER NOTES:

- THE SEWER SYSTEM AS SHOWN ON THESE PLANS SHALL BE CONSTRUCTED BY THE DEVELOPER IN ACCORDANCE WITH THE SANTA MARGARITA WATER DISTRICT'S STANDARD SPECIFICATIONS ("STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (GREEN BOOK) AS LAST REVISED), AND "STANDARD SPECIAL PROVISIONS AND STANDARD DRAWINGS FOR WATER AND SEWER CONSTRUCTION." THE CONTRACTOR SHALL HAVE A COPY OF EACH OF THESE STANDARDS, AS WELL AS A COPY OF THE PROJECT PLANS AND SPECIFICATIONS, ON THE JOB SITE AT ALL TIMES.
- THE DEVELOPER SHALL FURNISH THE DISTRICT WITH RECORDED EASEMENTS FOR ALL PORTIONS OF THE OF THE SEWER SYSTEM OUTSIDE THE PUBLIC RIGHT-OF-WAY.
- THE DISTRICT SHALL BE FURNISHED WITH SIX COPIES OF THE APPROVED CONSTRUCTION PLANS PRIOR TO THE START OF CONSTRUCTION.
- THE DISTRICT INSPECTOR SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE START OF CONSTRUCTION AND ANY SUBSEQUENT REQUIRED INSPECTION. PHONE (949) 459-6505 TO ARRANGE FOR INSPECTION.
- A PRECONSTRUCTION CONFERENCE WITH REPRESENTATIVES FROM ALL AFFECTED AGENCIES AND THE CONTRACTOR SHALL BE HELD ON THE JOB SITE AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED CITY AND/OR COUNTY PERMITS PRIOR TO THE START OF CONSTRUCTION.
- STATIONS SHOWN AS [0+00.00] ARE SEWER STATIONS AND ARE INDEPENDENT OF ALL OTHER STATIONS. SEWER LENGTHS ARE CALCULATED HORIZONTAL DISTANCES ALONG THE CENTERLINE OF THE SEWER.
- SEWER MAINS, MANHOLES, AND HOUSE CONNECTION LATERALS SHALL BE INSTALLED PRIOR TO PAVING OF THE STREETS.
- THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITY CROSSINGS AND POINTS OF CONNECTION TO THE DISTRICT'S EXISTING SEWER SYSTEM PRIOR TO CONSTRUCTION OF THE SEWERS.
- ALL SEWER MAINS, MANHOLES, AND HOUSE CONNECTION LATERALS SHALL BE STAKED BY A LICENSED SURVEYOR, AND A COMPLETE SET OF CUT SHEETS SHALL BE SUPPLIED TO THE DISTRICT INSPECTOR.
- A SEPARATE HOUSE CONNECTION LATERAL SHALL BE CONSTRUCTED FROM THE SEWER MAIN TO THE PROPERTY LINE FOR EACH INDIVIDUALLY OWNED DWELLING UNIT, UNLESS OTHERWISE SPECIFIED OR APPROVED BY THE ENGINEER. CONSTRUCTION AND LOCATION OF ALL HOUSE CONNECTION LATERALS SHALL BE IN ACCORDANCE WITH THE DISTRICT'S STANDARD SPECIAL PROVISIONS AND STANDARD DRAWINGS.
- NO FACILITY IS TO BE BACKFILLED UNTIL INSPECTED BY THE DISTRICT.
- IN ORDER TO PREVENT ACCIDENTAL USE OF THE SEWER PRIOR TO COMPLETION AND ACCEPTANCE OF THE WORK, THE OUTLET OR INLET TO EXISTING OR NEW MANHOLE(S) SHALL BE SEALED WITH BROKEN BRICK AND MORTAR. INSTALLATION OF THESE PLUGS SHALL BE APPROVED BY THE ENGINEER. PLUGS SHALL BE REMOVED AT THE TIME OF FINAL INSPECTION.
- THE DEVELOPER SHALL RAISE ALL MANHOLE FRAMES AND COVERS TO THE FINISHED PAVEMENT GRADE UPON COMPLETION OF THE PAVEMENT. IF THE SURFACE COURSE OF PAVEMENT IS NOT COMPLETED WITHIN A REASONABLE AMOUNT OF TIME AFTER THE BASE COURSE OF PAVEMENT IS COMPLETED, THE DEVELOPER SHALL RAISE THE MANHOLE FRAMES AND COVERS TO THE FINISHED GRADE OF THE BASE COURSE SO THAT THE DISTRICT WILL HAVE ACCESS TO THE SEWER SYSTEM. THE DEVELOPER SHALL THEN RAISE ALL MANHOLE FRAMES AND COVERS TO FINAL FINISHED GRADE OF THE PAVEMENT UPON COMPLETION OF THE SURFACE COURSE OF PAVEMENT. THE REQUIRED RAISING OF MANHOLE FRAMES AND COVERS TO THE FINISHED GRADE OF THE BASE COURSE OF PAVEMENT WILL BE DETERMINED AND SPECIFIED BY THE ENGINEER.
- ALL SEWER LATERALS FROM APARTMENT BUILDINGS, CONDOMINIUM BUILDINGS, INDUSTRIAL AND COMMERCIAL PROJECTS SHALL NOT BE CONNECTED TO THE DISTRICT'S SEWER SYSTEM UNTIL ALL FINE GRADING AND LANDSCAPING IS COMPLETED ADJACENT TO THE DRIVE SEWER LATERAL. IN ADDITION, ALL MANHOLES AND/OR CLEANOUTS SHALL BE ADJUSTED TO FINAL GRADE AND THE PRIVATE SEWER LATERAL SHALL BE CLEANED TO THE SATISFACTION OF THE SANTA MARGARITA WATER DISTRICT BEFORE IT IS CONNECTED TO THE DISTRICT'S SYSTEM.
- ALL SEWER LATERALS FROM SINGLE FAMILY HOUSES SHALL NOT BE CONNECTED TO THE DISTRICT'S SEWER SYSTEM UNTIL THE HOUSE IS READY FOR OCCUPANCY. THE LATERAL SHALL BE CLEANED TO THE SATISFACTION OF THE SANTA MARGARITA WATER DISTRICT BEFORE IT IS CONNECTED TO THE DISTRICT'S SYSTEM.
- A GAP (SECTION OF LINE NOT INSTALLED) SHALL BE PROVIDED BETWEEN A SEWER LINE FROM A DEVELOPMENT AND AN "ACTIVE" SEWER LINE UNTIL ALL UNITS ABOVE THE GAP ARE READY FOR OCCUPANCY. THE UNITS SHALL BE CONSIDERED READY FOR OCCUPANCY WHEN THE PLUMBING FIXTURES ARE SET AND FINAL GRADING COMPLETED FOR ALL UNITS ABOVE THE GAP AND THE SEWER LINE AND ALL LATERALS ABOVE THE GAP HAVE BEEN CLEANED TO THE SATISFACTION OF THE DISTRICT. IF IT IS PROPOSED TO USE THE GAP ALTERNATIVE TO NOTE 15 AND/OR 16, THE GAP SHALL BE SHOWN ON THE PLANS. IF OCCUPANCY IS DESIRED FOR A NUMBER OF UNITS JUST UPSTREAM OF THE GAP, A NEW GAP SHALL BE SHOWN ON THE PLANS BY ADDENDUM AND PROVIDED ONITS PRIOR TO THE RELEASE ON UNITS BELOW THE NEW GAP. UNDER THE "GAP" ALTERNATIVE, IT SHALL BE THE DEVELOPER'S RESPONSIBLE TO PUMP THE SEWER ABOVE THE GAP AND PREVENT ANY SEWER SPILLS ABOVE THE GAP. IF A SEWER SPILL OCCURS ABOVE THE GAP, THE DISTRICT MAY REQUIRE THAT EACH SEWER LATERAL ABOVE THE GAP BE DISCONNECTED UNTIL THE UNIT IS READY FOR OCCUPANCY.
- IN ORDER TO VERIFY ACCEPTABLE CONSTRUCTION, ALL SEWER LINES TO BE OWNED, OPERATED AND MAINTAINED BY THE DISTRICT SHALL BE VIDEO INSPECTED AFTER CLEANING AND MANDRILLING. DISTRICT PERSONNEL WILL NOT PERFORM INSPECTION. THE DISTRICT INSPECTOR SHALL CONTRACT WITH AN INDEPENDENT VIDEO INSPECTION COMPANY TO PERFORM THIS INSPECTION. ANY SEWER LINE FOUND TO BE DEFECTIVE SHALL BE REPAIRED AND REINSPECTED, INCLUDING VIDEO, PRIOR TO BEING PLACED IN SERVICE.

SHEET INDEX

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ADDED 8" DW LATERAL TO STORAGE SITE	10	APPROVED	5/29/01
NO.	DESCRIPTION	SHT.	APPR'D DATE

APPROVED FOR STORM DRAIN ONLY

APPROVED

BY: *Patrick Hunter*

R.C.E.:

EXPIRATION:

DATE: 5/3/01

THIS PLAN IS SIGNED BY PLANNING AND DEVELOPMENT SERVICES FOR CONCEPT AND ADHERENCE TO COUNTY STANDARDS AND REQUIREMENTS ONLY. PLANNING & DEVELOPMENT SERVICES IS NOT RESPONSIBLE FOR DESIGN, ASSUMPTIONS, OR ACCURACY.

NOTICE TO CONTRACTOR

PURSUANT TO ASSEMBLY BILL 3019, NO EXCAVATION PERMIT IS VALID UNLESS THE FOLLOWING IS PERFORMED:

- UNDERGROUND SERVICE ALERT HAS BEEN CONTACTED AND HAS PROVIDED INQUIRY I.D. #
- THE UNDERSIGNED AGREES TO CONTACT AND OBTAIN AN INQUIRY I.D. NO. FROM UNDERGROUND SERVICE ALERT (1-800-422-4133) AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF EXCAVATION.

SIGNED _____ DATE _____

OWNER

DMB LADERA, L.L.C.
C/O RANCHO MISSION VIEJO

28811 ORTEGA HIGHWAY
SAN JUAN CAPISTRANO, CA.
92693
(949)240-3363

CONTACT: DON STAHLIN

DEVELOPER

DMB LADERA, L.L.C.
C/O RANCHO MISSION VIEJO

28811 ORTEGA HIGHWAY
SAN JUAN CAPISTRANO, CA.
92693
(949)240-3363

CONTACT: DON STAHLIN

BENCH MARK

38B-36-88 ELEV. 478.775 (1988)
AT THE SOUTHWEST CORNER OF THE INTERSECTION OF CROWN VALLEY PKWY. AND MARGUERITE PKWY.; 48 FT. WESTERLY OF THE CENTERLINE OF MARGUERITE PKWY.; 82 FT. SOUTHERLY OF THE CENTERLINE OF CROWN VALLEY PKWY. SET AT THE TOP OF THE NORTHWEST CORNER OF A 3 FT. X 3 FT. CONCRETE BASE FOR THE TRAFFIC SIGNAL LIGHT POLE.

BASIS OF BEARINGS

BEARINGS SHOWN HEREON ARE BASED ON THE BEARING BETWEEN OCS HORIZONTAL CONTROL STA. GPS NO.1417 AND STATION GPS NO. 1431, BEING N45°18'W PER RECORDS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR

LEGAL DESCRIPTION

BEING A PORTION OF PARCEL 1 OF LOT LINE ADJUSTMENT NO.11 96-026 IN THE UNINCORPORATED TERRITORY OF THE COUNTY OF ORANGE, STATE OF CALIFORNIA, AS SHOWN ON EXHIBIT "B" ATTACHED TO THAT CERTAIN DOCUMENT RECORDED NOVEMBER 21, 1996 AS INSTRUMENT NO. 19960587414 OF OFFICIAL RECORDS IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

ORANGE COUNTY FIRE AUTHORITY
APPROVED FOR FIRE PROTECTION FACILITIES
(FIRE HYDRANT LOCATIONS ONLY)

PER PLAN FILED AS

SR 55197 APPROVED ON 06/04/01

SANTA MARGARITA WATER DISTRICT

APPROVAL OF DOMESTIC WATER & SEWER FACILITIES

CHIEF ENGINEER

Daniel R. Ferhns

DANIEL R. FERHNS
RCE NO. 39538

DATE 6/20/01

ENCROACHMENT PERMIT NO. 2001-00476

COUNTY APPROVED PLANS DO NOT RELIEVE CONTRACTOR/DEVELOPER FROM RESPONSIBILITY TO OBTAIN COUNTY PROPERTY PERMIT WHICH SHALL BE AVAILABLE ON THE JOB AT ALL TIMES WORK IS BEING ACCOMPLISHED IN PUBLIC RIGHT OF WAY.

STORM DRAIN MAINTAINED BY THE COUNTY
OF ORANGE ONLY WITHIN PUBLIC STREET R/W.

COUNTY OF ORANGE

PLANNING AND DEVELOPMENT SERVICES

APPROVED

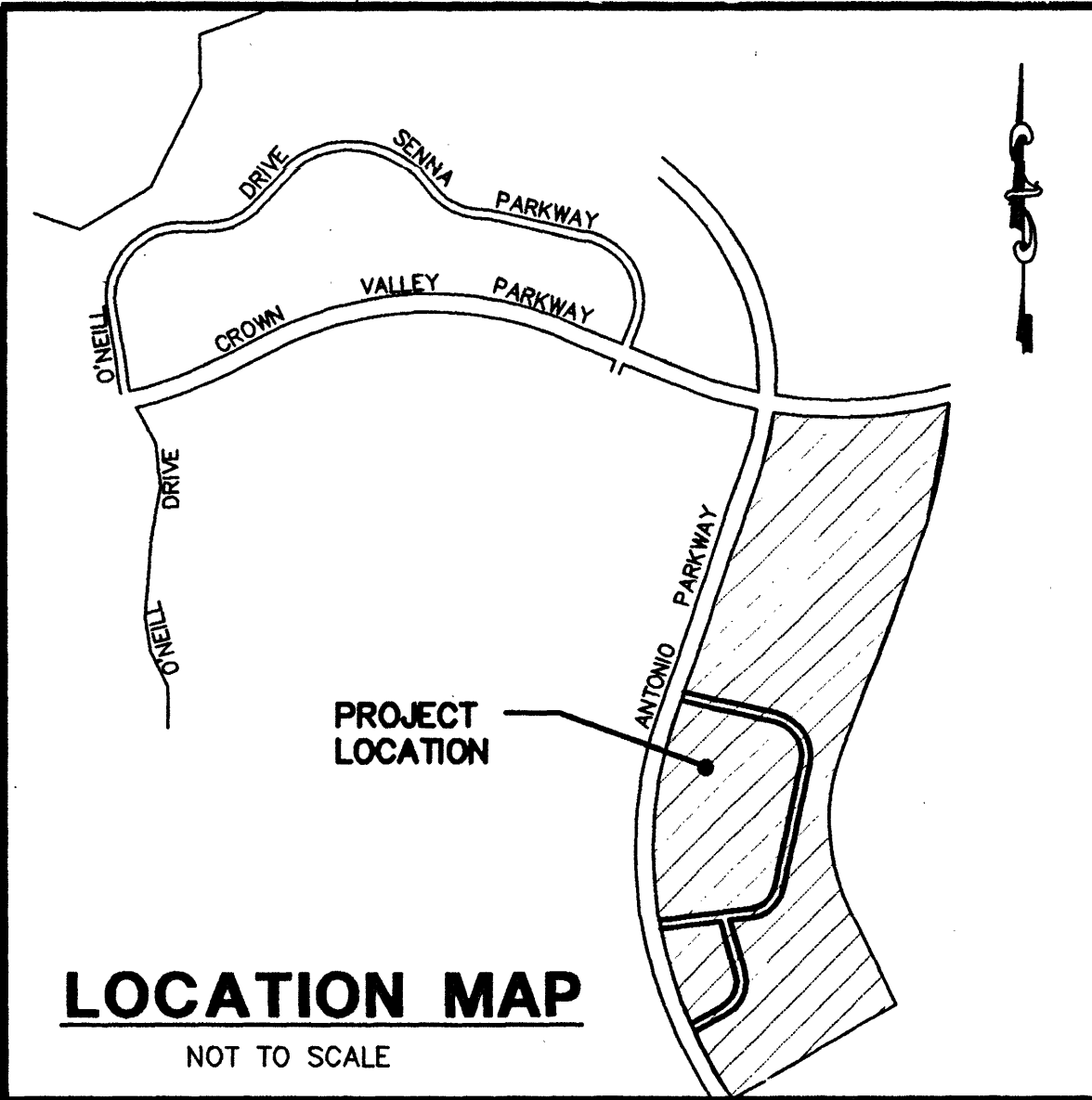
BY: *[Signature]*

R.C.E.:

EXPIRATION:

DATE: 8/6/01

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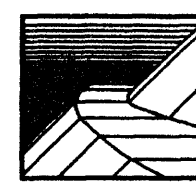
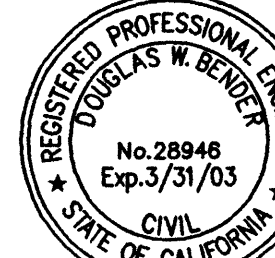


LOCATION MAP

NOT TO SCALE

SMWD WATER NOTES:

- THE WATER SYSTEM AS SHOWN ON THESE PLANS SHALL BE CONSTRUCTED BY THE DEVELOPER IN ACCORDANCE WITH THE SANTA MARGARITA WATER DISTRICT'S STANDARD SPECIFICATIONS ("STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (GREEN BOOK) AS LAST REVISED), AND "STANDARD SPECIAL PROVISIONS AND STANDARD DRAWINGS FOR WATER AND SEWER CONSTRUCTION." THE CONTRACTOR SHALL HAVE A COPY OF EACH OF THESE STANDARDS, AS WELL AS A COPY OF THE PROJECT PLANS AND SPECIFICATIONS, ON THE JOB AT ALL TIMES.
- THE DEVELOPER SHALL FURNISH THE DISTRICT WITH RECORDED EASEMENTS FOR ALL PORTIONS OF THE WATER SYSTEM OUTSIDE THE PUBLIC RIGHT-OF-WAY.
- THE DISTRICT SHALL BE FURNISHED WITH SIX COPIES OF APPROVED CONSTRUCTION PLANS PRIOR TO THE START OF CONSTRUCTION.
- THE DISTRICT INSPECTOR SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE START OF CONSTRUCTION AND ANY SUBSEQUENT REQUIRED INSPECTION. PHONE (949) 459-6505 TO ARRANGE FOR INSPECTION.
- A PRECONSTRUCTION CONFERENCE WITH REPRESENTATIVES FROM ALL AFFECTED AGENCIES AND THE CONTRACTOR SHALL BE HELD ON THE JOB SITE AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL OBTAIN ALL CITY AND/OR COUNTY PERMITS PRIOR TO THE START OF CONSTRUCTION.
- WATER MAINS SHALL BE STAKED FOR LINE AND GRADE OR SHALL BE INSTALLED SUBSEQUENT TO THE INSTALLATION OF THE CURBS BUT PRIOR TO PAVING OF THE STREETS. THE MINIMUM COVER OVER DOMESTIC WATER MAINS SHALL BE 36 INCHES BELOW PAVEMENT FINISHED GRADE.
- NO VALVE SHALL BE LOCATED WITHIN A GUTTER OR OTHER CONCRETE DRAINAGE DEVICE.
- ALL FIRE HYDRANTS SHALL BE INSTALLED PER THE DISTRICT'S STANDARD DRAWINGS.
- ALL EXPOSED BURIED METAL APPURTENANCES IN CONTACT WITH THE SOIL OR WATER, INCLUDING PIPE, FLANGES, NUTS, BOLTS, VALVES, COUPLINGS, ETC., SHALL BE GIVEN TWO (2) COATS OF DEVRAP 142S PROTECTIVE COATING, OR EQUAL.
- NO FACILITY IS TO BE BACKFILLED UNTIL INSPECTED BY THE DISTRICT.
- SHUT DOWN OF EXISTING WATERLINES TO FACILITATE CONNECTION TO EXISTING FACILITIES SHALL BE COORDINATED WITH THE DISTRICT INSPECTOR. NO CONNECTIONS TO THE DISTRICT'S EXISTING WATER SYSTEM SHALL BE MADE UNTIL THE NEW FACILITIES HAVE BEEN SUCCESSFULLY TESTED AND DISINFECTED. ALL CONNECTIONS TO THE DISTRICT'S WATER SYSTEM SHALL BE MADE IN THE PRESENCE OF THE DISTRICT INSPECTOR.
- WATER HOUSE CONNECTION LATERALS SHALL BE INSTALLED BEHIND THE CURB PRIOR TO PAVING OF THE STREET. THE SERVICES SHALL BE EXTENDED TO THEIR FINAL LOCATION BY THE DEVELOPER AT A TIME PRIOR TO PRESSURE TESTING OF THE WATER SYSTEM.
- ALL WATER SERVICES SHALL BE INSTALLED WITH A 5-FOOT HORIZONTAL SEPARATION FROM ANY SEWER LATERAL AND IN ACCORDANCE WITH THE DISTRICT'S REVISED STANDARD DRAWINGS.
- ALL WATER SERVICES SUPPLIED WITH PRESSURE HIGHER THAN 80 PSIG SHALL BE PROVIDED WITH APPROVED PRESSURE REGULATORS SET AT 80 PSIG.
- METER BOXES SHALL BE INSTALLED DIRECTLY BEHIND THE CURB WHETHER SIDEWALK IS DIRECTLY BEHIND THE CURB OR NOT. METER BOXES INSTALLED BEHIND ROLLED CURB OR WITHIN DRIVEWAYS SHALL HAVE TRAFFIC LIDS.
- ALL BURIED BOLTS, ANCHOR BOLTS AND NUTS SHALL BE TYPE 316 STAINLESS STEEL AND SHALL BE COATED WITH DEVRAP 142S OR APPROVED EQUAL.
- THE DEVELOPER SHALL RAISE ALL VALVE BOXES TO THE FINISHED PAVEMENT GRADE UPON COMPLETION OF THE PAVEMENT. IF THE SURFACE COURSE OF PAVEMENT IS NOT COMPLETED WITHIN A REASONABLE AMOUNT OF TIME AFTER THE BASE COURSE OF PAVEMENT IS COMPLETED, THE DEVELOPER SHALL RAISE THE VALVE BOXES TO THE FINISHED GRADE OF THE BASE COURSE SO THAT THE DISTRICT MAY OPERATE THE VALVES. THE DEVELOPER SHALL THEN RAISE ALL VALVE BOXES TO FINAL FINISHED GRADE OF THE PAVEMENT UPON COMPLETION OF THE SURFACE COURSE OF PAVEMENT. THE REQUIRED RAISING OF VALVE BOXES TO THE FINISHED GRADE OF THE BASE COURSE OF PAVEMENT WILL BE DETERMINED AND SPECIFIED BY THE ENGINEER.
- BACKFLOW PREVENTERS APPROVED BY THE USC FOUNDATION FOR CROSS CONNECTION CONTROL ARE THE ONLY BACKFLOW PREVENTION DEVICES ACCEPTABLE FOR USE IN THE DISTRICT. THE DISTRICT'S CROSS CONNECTION INSPECTOR SHALL BE NOTIFIED PRIOR TO INSTALLATION OF BACKFLOW DEVICE AT (949) 459-6505.
- IRRIGATION SYSTEMS MUST COMPLY WITH THE DISTRICT'S RULES AND REGULATIONS FOR NONDOMESTIC WATER SERVICE.
- WATER METERS SHALL BE PURCHASED FROM THE DISTRICT. METER BOXES, CUSTOMER BALL VALVES, GASKETS, NUTS AND BOLTS AND MISCELLANEOUS HARDWARE MUST BE PURCHASED FROM A SUPPLIER WITH MATERIALS IN ACCORDANCE WITH THE DISTRICT'S STANDARD DRAWINGS.



DOUGLAS BENDER AND ASSOCIATES
Consulting Civil Engineers

22971 MILL CREEK DR.,
LAGUNA HILLS, CA 92653

TEL: (949) 586-0086
FAX: (949) 586-5886

DOUGLAS W. BENDER RCE: 28946

DATE 3/29/01

TITLE SHEET

TRACT 16063

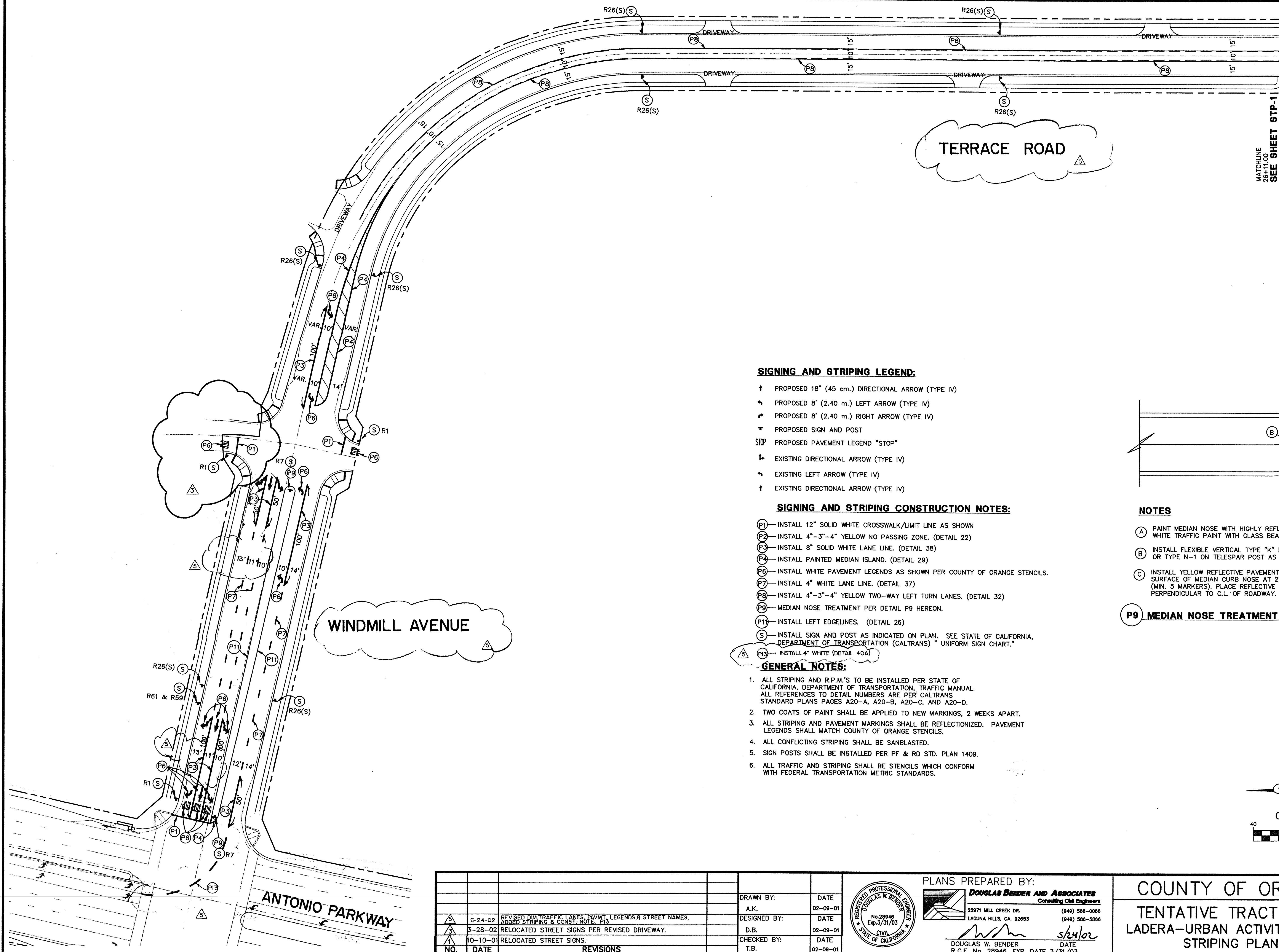
URBAN ACTIVITY CENTER

SHEET 1 OF 28

0831PT.DWG

TR. IMP. (16063)

PLAN SET: A
DATE: 03-22-01
PLAN CONTROL



SIGNING AND STRIPING LEGEND:

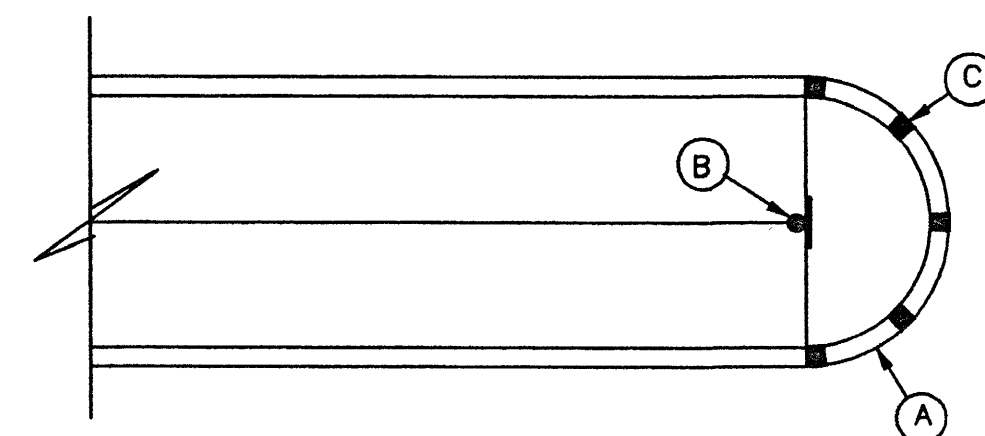
- ↑ PROPOSED 18" (45 cm.) DIRECTIONAL ARROW (TYPE IV)
- ↶ PROPOSED 8' (2.40 m.) LEFT ARROW (TYPE IV)
- ↷ PROPOSED 8' (2.40 m.) RIGHT ARROW (TYPE IV)
- ⌵ PROPOSED SIGN AND POST
- STOP PROPOSED PAVEMENT LEGEND "STOP"
- ↶ EXISTING DIRECTIONAL ARROW (TYPE IV)
- ↶ EXISTING LEFT ARROW (TYPE IV)
- ↑ EXISTING DIRECTIONAL ARROW (TYPE IV)

SIGNING AND STRIPING CONSTRUCTION NOTES:

- (P1) INSTALL 12" SOLID WHITE CROSSWALK/LIMIT LINE AS SHOWN
- (P2) INSTALL 4"-3"-4" YELLOW NO PASSING ZONE. (DETAIL 22)
- (P3) INSTALL 8" SOLID WHITE LANE LINE. (DETAIL 38)
- (P4) INSTALL PAINTED MEDIAN ISLAND. (DETAIL 29)
- (P6) INSTALL WHITE PAVEMENT LEGENDS AS SHOWN PER COUNTY OF ORANGE STENCILS.
- (P7) INSTALL 4" WHITE LANE LINE. (DETAIL 37)
- (P8) INSTALL 4"-3"-4" YELLOW TWO-WAY LEFT TURN LANES. (DETAIL 32)
- (P9) MEDIAN NOSE TREATMENT PER DETAIL P9 HEREON.
- (P11) INSTALL LEFT EDGELINES. (DETAIL 26)
- (S) INSTALL SIGN AND POST AS INDICATED ON PLAN. SEE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION (CALTRANS) "UNIFORM SIGN CHART."
- (P13) INSTALL 4" WHITE (DETAIL 40A)

GENERAL NOTES:

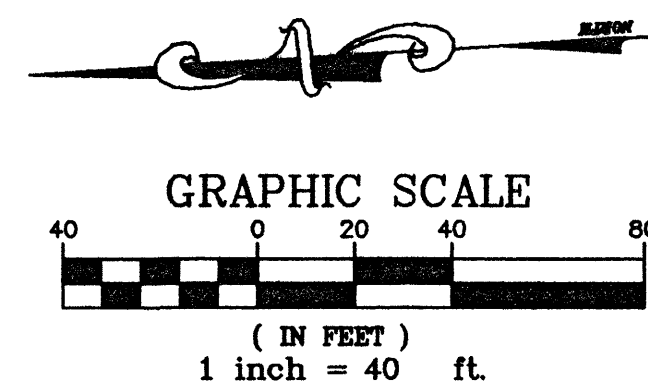
1. ALL STRIPING AND R.P.M.'S TO BE INSTALLED PER STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, TRAFFIC MANUAL. ALL REFERENCES TO DETAIL NUMBERS ARE PER CALTRANS STANDARD PLANS PAGES A20-A, A20-B, A20-C, AND A20-D.
2. TWO COATS OF PAINT SHALL BE APPLIED TO NEW MARKINGS, 2 WEEKS APART.
3. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE REFLECTIONIZED. PAVEMENT LEGENDS SHALL MATCH COUNTY OF ORANGE STENCILS.
4. ALL CONFLICTING STRIPING SHALL BE SANBLASTED.
5. SIGN POSTS SHALL BE INSTALLED PER PF & RD STD. PLAN 1409.
6. ALL TRAFFIC AND STRIPING SHALL BE STENCILS WHICH CONFORM WITH FEDERAL TRANSPORTATION METRIC STANDARDS.



NOTES

- (A) PAINT MEDIAN NOSE WITH HIGHLY REFLECTIVE PREMIXED WHITE TRAFFIC PAINT WITH GLASS BEADS.
- (B) INSTALL FLEXIBLE VERTICAL TYPE "K" MARKER, R7, R10 OR TYPE N-1 ON TELESAR POST AS INDICATED ON PLAN
- (C) INSTALL YELLOW REFLECTIVE PAVEMENT MARKERS ON TOP SURFACE OF MEDIAN CURB NOSE AT 2' C.C. SPACING (MIN. 5 MARKERS). PLACE REFLECTIVE SURFACE OF MARKERS PERPENDICULAR TO C.L. OF ROADWAY.

P9 MEDIAN NOSE TREATMENT DETAIL



NO.	DATE	REVISIONS
1	6-24-02	REVISED DIM. TRAFFIC LANES, PAVMT. LEGENDS, & STREET NAMES, ADDED STRIPING & CONST. NOTE. P13
2	5-28-02	RELOCATED STREET SIGNS PER REVISED DRIVEWAY.
3	10-10-01	RELOCATED STREET SIGNS.

PLANS PREPARED BY:

DOUGLAS BENDER AND ASSOCIATES
Consulting Civil Engineers

22971 MILL CREEK DR. (949) 586-0066
LAGUNA HILLS, CA 92653 (949) 586-5866

DOUGLAS W. BENDER
R.C.E. No. 28946, EXP. DATE 3/31/03

DATE: 5/24/02

COUNTY OF ORANGE

TENTATIVE TRACT 16063

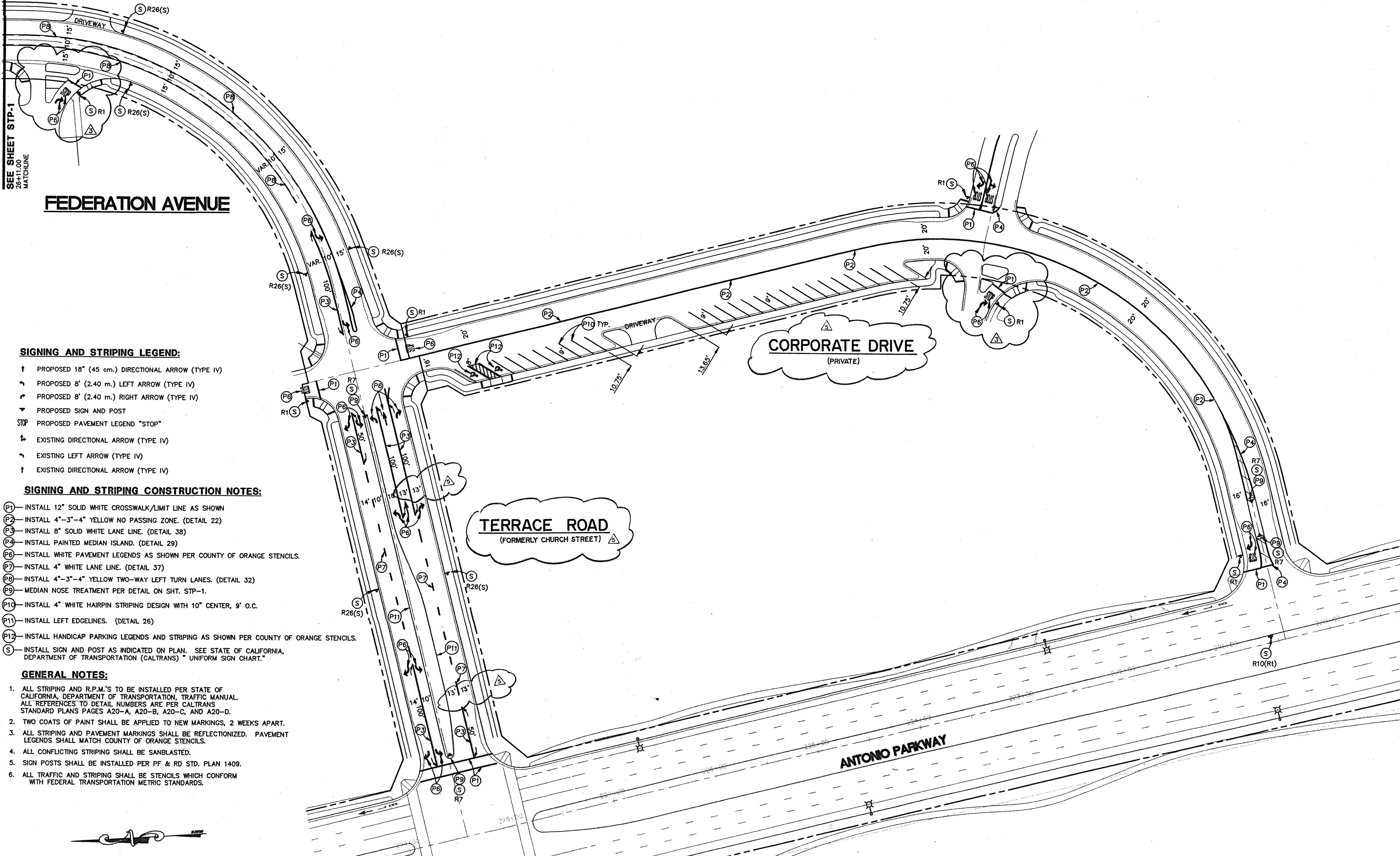
LADERA-URBAN ACTIVITY CENTER

STRIPING PLANS

PERMIT NO. XXXXX-TC

SHEET STP-1 25 OF 26

TR. IMP E16063



FEDERATION AVENUE

CORPORATE DRIVE (PRIVATE)

TERRACE ROAD (FORMERLY CHURCH STREET)

ANTONIO PARKWAY

SIGNING AND STRIPING LEGEND:

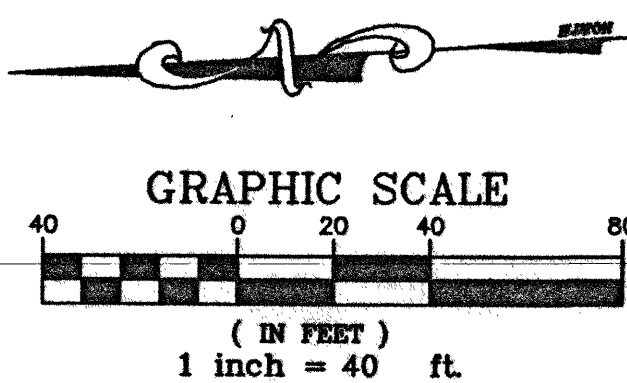
- ↑ PROPOSED 18" (45 cm.) DIRECTIONAL ARROW (TYPE IV)
- ↶ PROPOSED 8' (2.40 m.) LEFT ARROW (TYPE IV)
- ↷ PROPOSED 8' (2.40 m.) RIGHT ARROW (TYPE IV)
- ↑ PROPOSED SIGN AND POST
- STOP PROPOSED PAVEMENT LEGEND "STOP"
- ↑ EXISTING DIRECTIONAL ARROW (TYPE IV)
- ↶ EXISTING LEFT ARROW (TYPE IV)
- ↑ EXISTING DIRECTIONAL ARROW (TYPE IV)

SIGNING AND STRIPING CONSTRUCTION NOTES:

- P1—INSTALL 12" SOLID WHITE CROSSWALK/LIMIT LINE AS SHOWN
- P2—INSTALL 4"-3"-4" YELLOW NO PASSING ZONE. (DETAIL 22)
- P3—INSTALL 8" SOLID WHITE LANE LINE. (DETAIL 38)
- P4—INSTALL PAINTED MEDIAN ISLAND. (DETAIL 29)
- P6—INSTALL WHITE PAVEMENT LEGENDS AS SHOWN PER COUNTY OF ORANGE STENCILS.
- P7—INSTALL 4" WHITE LANE LINE. (DETAIL 37)
- P8—INSTALL 4"-3"-4" YELLOW TWO-WAY LEFT TURN LANES. (DETAIL 32)
- P9—MEDIAN NOSE TREATMENT PER DETAIL ON SHT. STP-1.
- P10—INSTALL 4" WHITE HAIRPIN STRIPING DESIGN WITH 10" CENTER, 9' O.C.
- P11—INSTALL LEFT EDGELINES. (DETAIL 28)
- P12—INSTALL HANDICAP PARKING LEGENDS AND STRIPING AS SHOWN PER COUNTY OF ORANGE STENCILS.
- S—INSTALL SIGN AND POST AS INDICATED ON PLAN. SEE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION (CALTRANS) "UNIFORM SIGN CHART."

GENERAL NOTES:

- ALL STRIPING AND R.P.M.'S TO BE INSTALLED PER STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, TRAFFIC MANUAL. ALL REFERENCES TO DETAIL NUMBERS ARE PER CALTRANS STANDARD PLANS PAGES A20-A, A20-B, A20-C, AND A20-D.
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- SIGN POSTS SHALL BE INSTALLED PER PF & RD STD. PLAN 1409.
- ALL TRAFFIC AND STRIPING SHALL BE STENCILS WHICH CONFORM WITH FEDERAL TRANSPORTATION METRIC STANDARDS.

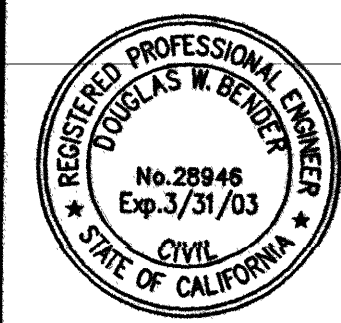


NO.	DATE	REVISIONS
5	6-24-02	REVISE DIM. OF TRAFFIC LANES & STREET NAMES
3	3-28-02	RELOCATED STREET SIGNS PER REVISED DRIVEWAYS.
10	10-10-01	RELOCATED STREET SIGN.

DRAWN BY:
A.K.
DATE
02-09-01

DESIGNED BY:
D.B.
DATE
02-09-01

CHECKED BY:
T.B.
DATE
02-09-01



PLANS PREPARED BY:
DOUGLAS BENDER AND ASSOCIATES
Consulting Civil Engineers
22971 MILL CREEK DR.
LAGUNA HILLS, CA. 92653
(949) 586-0086
(949) 586-5866
DOUGLAS W. BENDER
R.C.E. No. 28946, EXP. DATE 3/31/03

COUNTY OF ORANGE
TENTATIVE TRACT 16063
LADERA-URBAN ACTIVITY CENTER
STRIPING PLANS

PERMIT NO.
XXXXX-TC
SHEET STP-2
26 OF 26

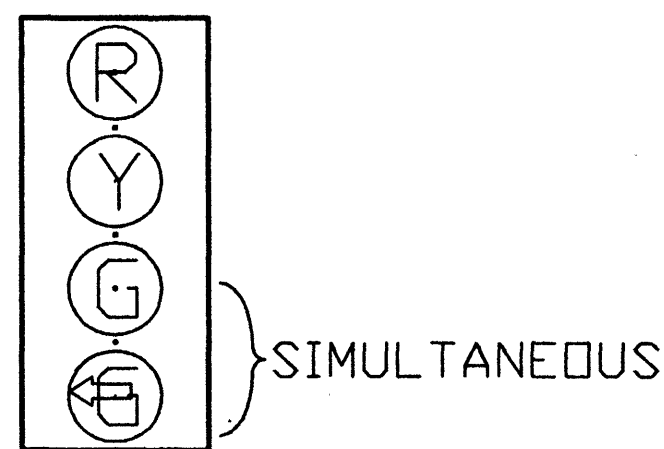
TR. IMP. (16063)

CONDUCTOR SCHEDULE									
AWG CIRCUITS		RUNS							
		1	2	3	4	5	6	7	8
12 CSC	3 CSC	1	2	3	4	5	6	7	8
LOOP LEAD-IN TYPE B	#1 DETECTOR								
	#2 DETECTOR								
	#3 DETECTOR								
	#4 DETECTOR								
	#5 DETECTOR								
	#6 DETECTOR								
	#7 DETECTOR								
	#8 DETECTOR								
# 10	TOTAL D.L.C'S	4	4	6	6	11	11	19	22
	LUMINAIRE	2	2	2	2	2	2	4	4
	SIGNAL COMMON	1	1	1	1	1	1	2	2
	TOTAL	3	3	3	3	3	3	6	2
3 #20 EVP CABLE		1	1	2	-	1	1	2	4
#12 FLASHING BEACON		1-2"	1-2"	1-2"					
12PR #22 I.C.(2" C)		1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	2-4"	2-4"
CONDUIT SIZE		1-2"	1-2"	1-2"	1-3"	1-3"	1-3"	2-4"	2-4"

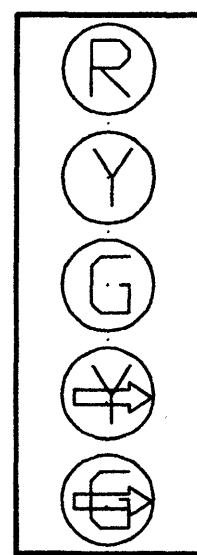
ALL CONDUITS AND CONDUCTORS ARE EXISTING.

DETECTOR		SCHEDULE	
SENSOR *		LOOP DETECTORS	
UNIT	CHANN		
1	1	1-05	
	2	1-02	
2	1	2-02	
	2	3-02	
3	1	4-02	
	2	5-02	
4	1	1-01	ACTIVATE/NEW
	2	2-01	
5	1	1-06	
	2	2-06	
6	1	3-06	
	2	4-06	
7	1	5-06	
	2	1-07	
8	1	1-04	
	2	2-04	
9	1	3-04	
	2	1-03	
10	1	1-08	△
	2	2-08	△
11	1	3-08	△
	2	4-08	(DELAY) △
12	1	EVP 1	01+6
	2	EVP 2	02+5
13	1	EVP 3	08+3
	2	EVP 4	04+7

DETAIL A
4-SECTION SIGNAL HEAD
12" LENSES

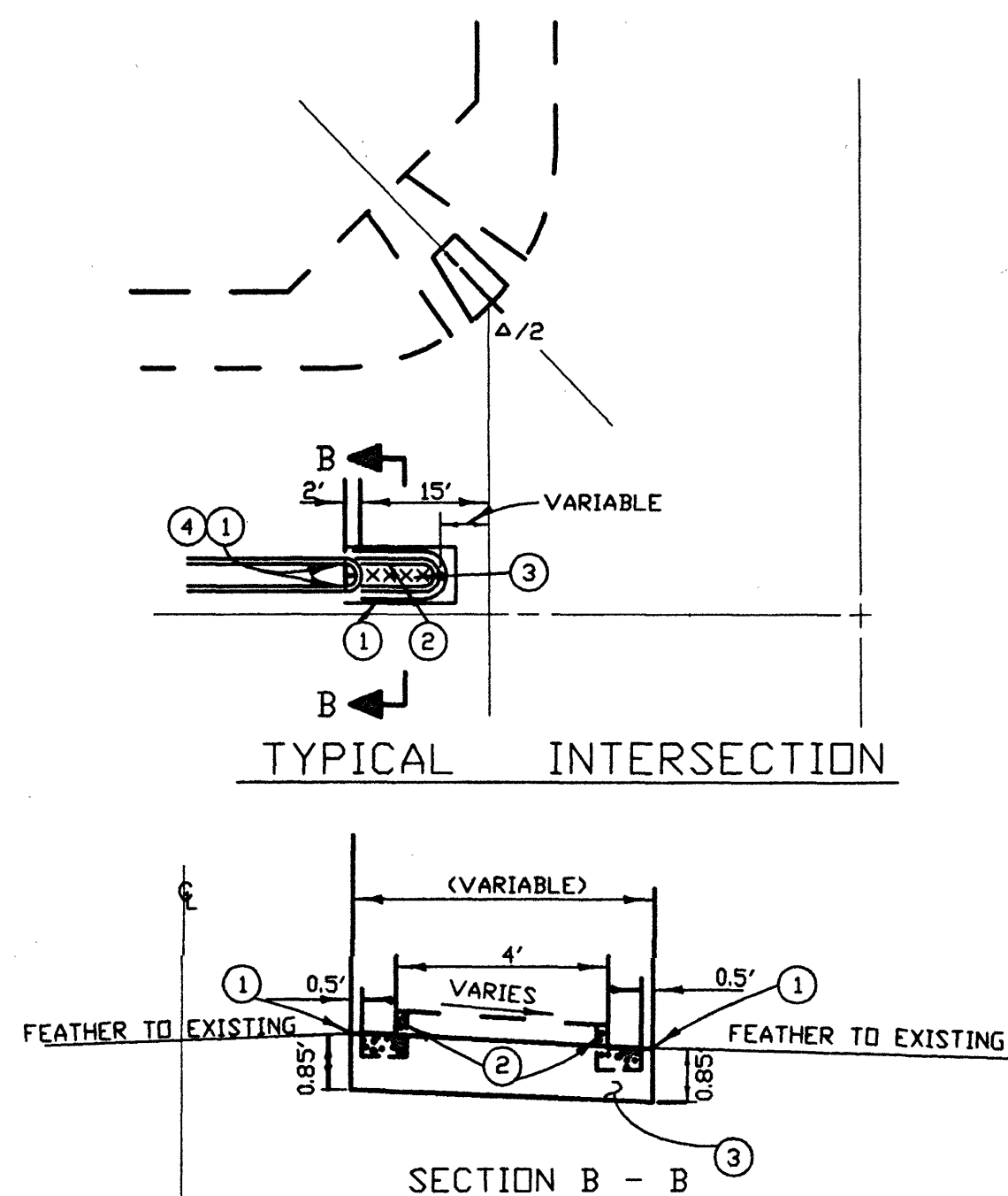


DETAIL E
5-SECTION SIGNAL HEAD
12" LENSES



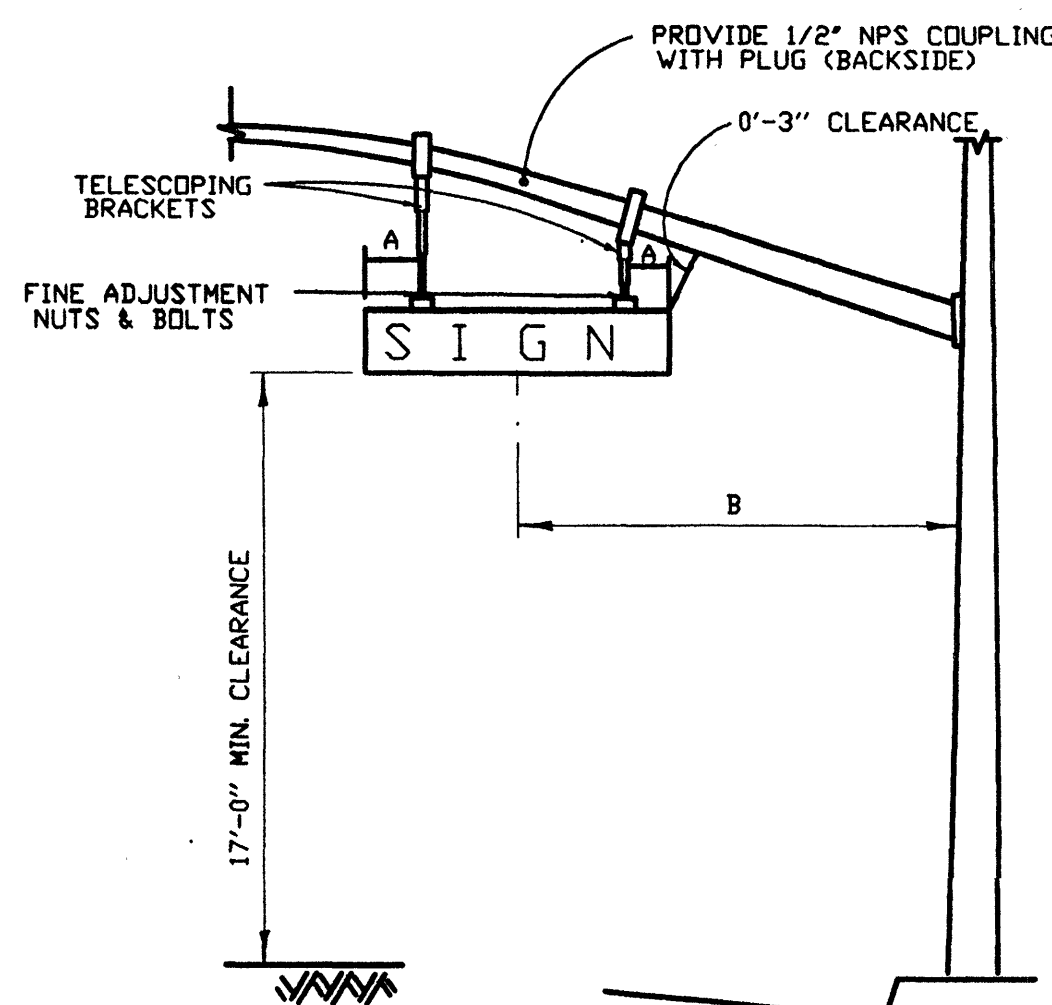
- △ - BAND STRAP OR BOLT FRAME WORK AT TOP, TO SIGNAL POLE.
△ - NO CAST ALUMINUM TERMINAL BLOCKS ALLOWED.

DETAIL B
INTERSECTIONS RAISED MEDIAN



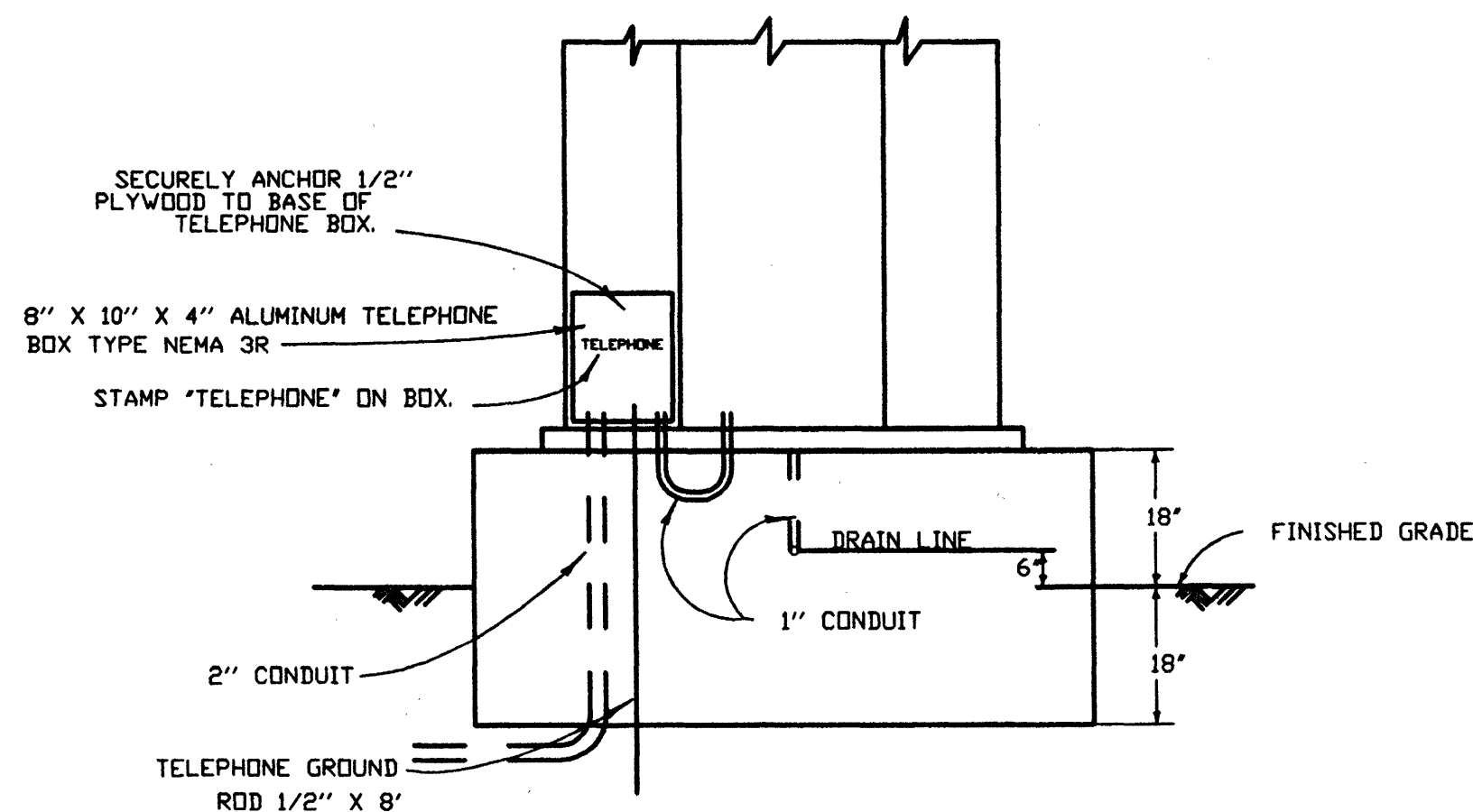
- NOTES - DETAILS B
1. SAWCUT AND JOIN EXISTING
 2. REMOVE CONCRETE
 3. CONSTRUCT 0.85' AC OVER NATIVE SOIL
 4. CONSTRUCT TYPE A1-8 CONCRETE CURB PER APWA STD. PLAN 120-0.

DETAIL C
REFLECTORIZED STREET NAME SIGN COMPONENTS



- NOTES - DETAIL C
- A 1'-6" (18"x72" SIGN), 2'-0" (18"x96" SIGN)
B 10'-6" CENTERLINE OF SIGN TO FACE OF POLE

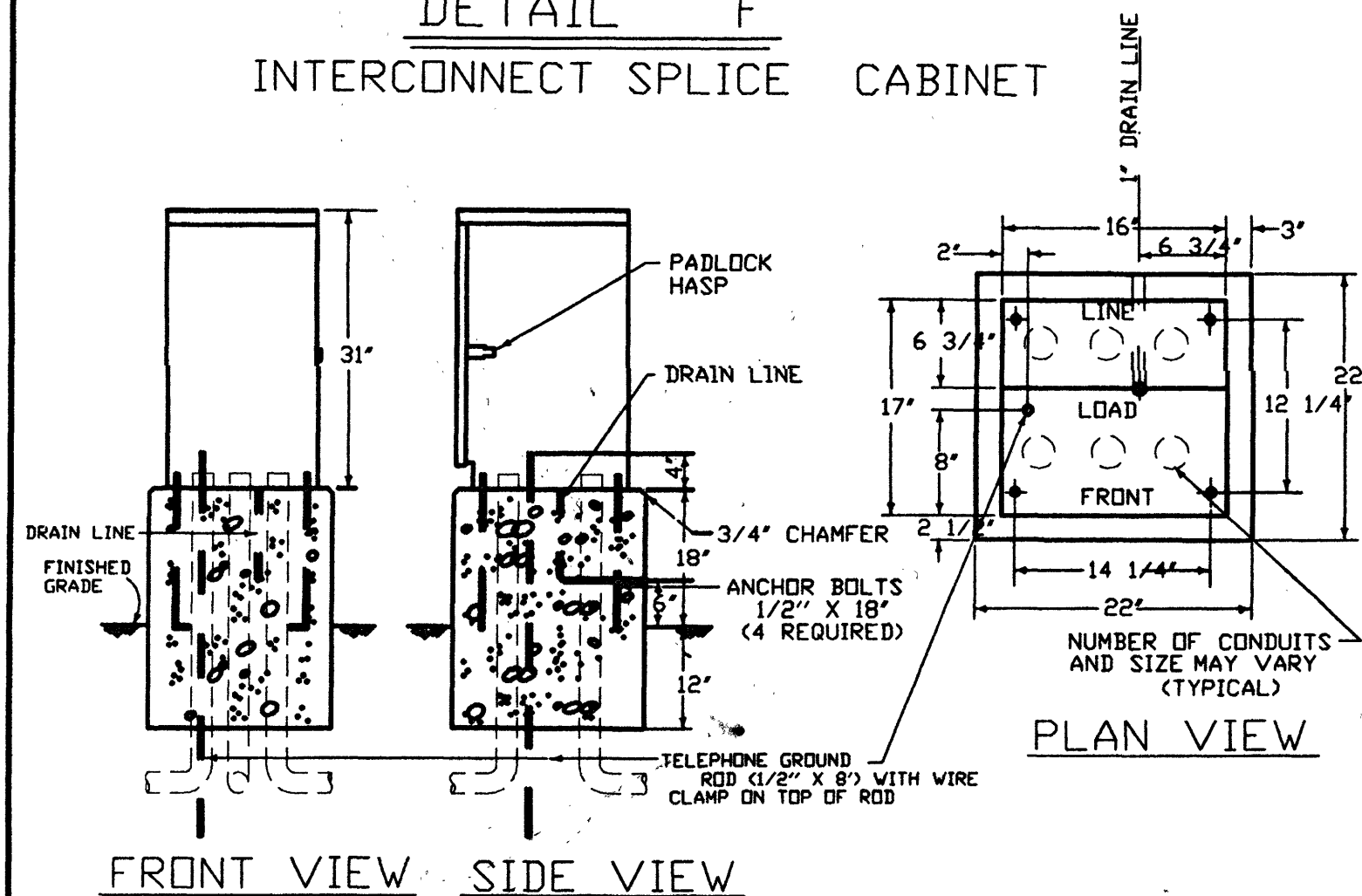
DETAIL D
TELEPHONE SERVICE BOX



GENERAL NOTES △△

1. ALL WORK, NEW MATERIALS AND NEW EQUIPMENT SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION, STANDARD PLANS DATED JULY 1999 AND STANDARD SPECIFICATIONS DATED JULY 1999 AND THE SPECIAL PROVISIONS FOR THIS PROJECT.
2. UTILITIES SHOWN ON THESE PLANS ARE CORRECT AND ACCURATE TO THE EXTENT OF AVAILABLE RECORDS AND KNOWLEDGE. THE CONTRACTOR, HOWEVER, IS REQUIRED TO ASCERTAIN THE EXACT LOCATION OF UNDERGROUND FACILITIES PRIOR TO DOING WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICE.
3. 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL CONTACT ORANGE COUNTY PUBLIC FACILITIES & RESOURCES DEPARTMENT FOR INSPECTION AT 567-7800.
4. THE ENGINEER SHALL APPROVE POLE AND LOOP DETECTION PLACEMENT IN THE FIELD PRIOR TO INSTALLATION.
5. ALL CONDUITS SHALL BE 2" UNLESS OTHERWISE NOTED.
6. ALL PULL BOXES SHALL BE #5 UNLESS OTHERWISE NOTED.
7. ALL SALVAGED EQUIPMENT SHALL BE DELIVERED UNDAMAGED, BY CONTRACTOR, TO THE ORANGE COUNTY YARD AT 1152 EAST FRUIT ST., SANTA ANA, CA. CONTRACTOR SHALL GIVE A 48-HOUR NOTICE TO THE COUNTY PRIOR TO THE DELIVERY DATE.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TELEPHONE AND ELECTRICAL SERVICE LINES AND INTERCONNECT HOOK-UPS BETWEEN THE LOCAL CONTROLLER AND THE SYSTEM MASTER.
9. PEDESTRIAN INDICATIONS SHALL BE INTERNATIONAL SYMBOL L.E.D. TYPE.
10. PEDESTRIAN PUSH BUTTONS SHALL BE TYPE B WITH INTERNATIONAL SYMBOL PLATE.
11. ALL VEHICLE INDICATIONS SHALL BE 12" DIAMETER RED, YELLOW, AND GREEN L.E.D. DISPLAYS WITH BACKPLATES.
12. CONTRACTOR SHALL AVOID DAMAGING EXISTING UTILITIES AS DIRECTED BY ENGINEER.
13. CONTRACTOR SHALL AVOID DAMAGING EXISTING UTILITIES. (SEE SPECIAL PROVISIONS).
14. DETECTOR LOOPS SHALL BE CIRCULAR 6' DIAMETER WITH 9' SPACING IN THE DIRECTION OF TRAVEL UNLESS OTHERWISE NOTED.
15. ALL DETECTOR CABLE HOMERUNS SHALL BE IN THE CROSSWALK AREA.
16. ALL DETECTOR LOOPS SHALL HAVE FOUR (4) TURNS.
17. ALL QUADRUPOLE DETECTOR LOOPS SHALL BE TWO (2-4-2) TURNS.
18. TRAFFIC CONTROLLER CABINET FOUNDATION SHALL BE 18" ABOVE AND BELOW FINISHED GRADE (SEE DETAIL D).
19. INSTALL "CABINET DOOR OPEN" CIRCUIT IN CONTROLLER CABINET PER MANUFACTURE'S SPECIFICATIONS.
20. CONCRETE REPLACEMENT TO MATCH EXISTING.
21. MAINTAIN 36 INCHES OF CLEARANCE BETWEEN CABINETS.

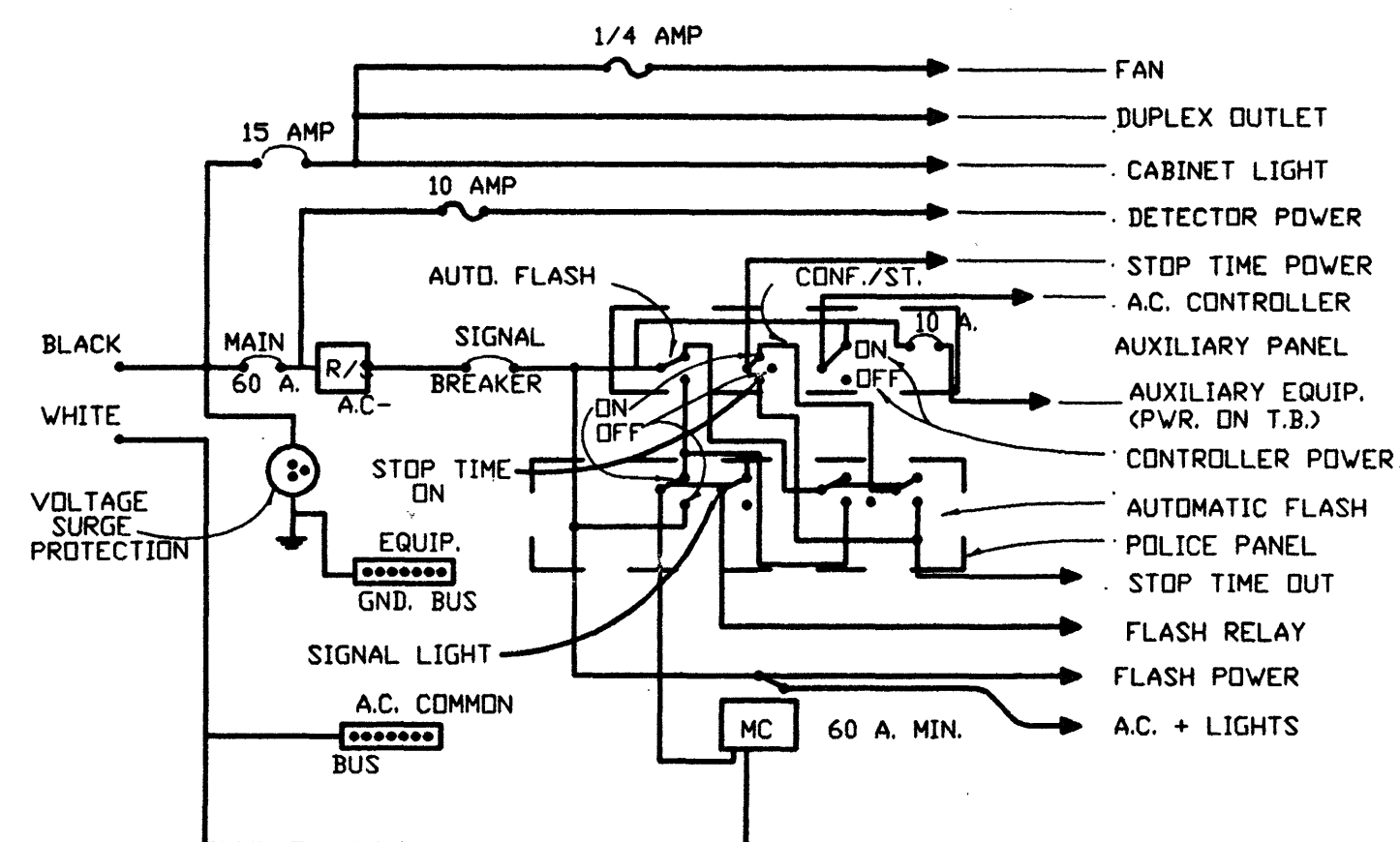
DETAIL F
INTERCONNECT SPLICE CABINET



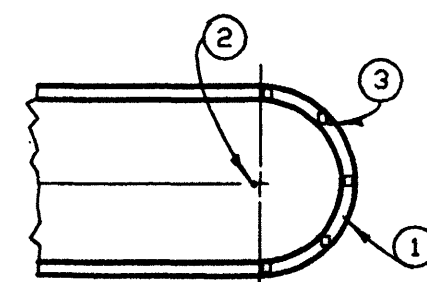
NOTES - DETAIL F

1. FOUNDATION TO BE 22" X 22". ANCHOR BOLT PLACEMENT PER CABINET MFG. TEMPLATE.
2. ENCLOSURE SHALL BE ALUMINUM AND FURNISHED WITH A DETACHABLE MOUNTING BASE.
3. ALL FACTORY INSTALLED COMPONENTS SHALL BE U.L. LISTED OR PER PUBLISHED N.E.C. STANDARDS.
4. A 3/4" CONSTRUCTION GRADE PLYWOOD PANEL SHALL BE FASTENED TO THE REAR WALL. PANEL SHALL BE 12" X 24" AND SHALL HAVE A No. M-25 AND R-841 STANDOFF FASTENED IN THE CENTER OF THE PANEL.
5. ENCLOSURE FINISH SHALL CONFORM TO A.S.T.M. B-117. PAINT TO BE APPLIED TO EXTERNAL AND INTERNAL CABINET SURFACE SHALL BE WHITE ANTI-GRAFFITI CARDINAL'S 6409 G SERIES OR APPROVED EQUAL. ANTI-GRAFFITI PAINT SHALL BE APPLIED TO CABINET AT THE TIME OF MANUFACTURE.
6. PROVIDE 1 1/2" CONDUIT FOR FUTURE 115 VAC SERVICE.
7. PROVIDE GROUND BUS INSIDE SPLICE CABINET.

DETAIL G
CONTROLLER CABINET WIRING



DETAIL H
RAISED MEDIAN MARKING



NOTES - DETAIL H

1. PAINT MEDIAN NOSE WITH HIGHLY REFLECTIVE PREMIXED WHITE TRAFFIC PAINT WITH GLASS BEADS.
2. INSTALL FLEXIBLE VERTICAL TYPE K MARKER, R7, R10 OR TYPE N-1 ON TELESAR POST AS INDICATED ON PLAN.
3. INSTALL YELLOW REFLECTIVE PAVEMENT MARKERS ON TOP SURFACE OF MEDIAN CURB NOSE AT 2' C.C. SPACING (MINIMUM 5 MARKERS). PLACE REFLECTIVE SURFACE OF MARKERS PERPENDICULAR TO Q OF ROADWAY.

MARK		DATE	DESCRIPTION	PREPARED UNDER	SHEET
REVISIONS				SUPERVISION OF	DATE
DESIGNED				SCALE	DATE
DRAWN				NOT TO SCALE	V. D. NO.
CHECKED					26B
					OF 26

TR.IMP (16063)