GENERAL NOTES:

- 1. ALL WORK, UNLESS OTHERWISE SPECIFIED, SHALL CONFORM TO THE LATEST EDITION AND SUPPLEMENTS OF THE ORANGE COUNTY PUBLIC WORKS STANDARD PLANS, AND STANDARD PLANS AND STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION PER A.P.W.A., UNLESS OTHERWISE SHOWN. ALL TRAFFIC SIGNAL WORK SHALL CONFORM TO THE PROVISIONS OF THE 2015 STANDARD SPECIFICATIONS AND STANDARD PLANS OF THE STATE OF CALIFORNIA DEPARTMENT
- 2. LOCATE ALL SUBSTRUCTURES PRIOR TO CONSTRUCTION, HAND DIG FOUNDATIONS UNTIL CLEAR OF OBSTRUCTIONS. CONTACT UNDERGROUND SERVICE ALERT AT 811 A MINIMUM 48 HOURS PRIOR TO CONSTRUCTION.
- 3. ALL DETECTOR LOOPS SHALL BE PROTECTED IN PLACE. ANY DAMAGED LOOPS SHALL BE REPAIRED WITHIN 3 WORKING
- 4. INTERCONNECT CABLE SHALL BE CONTINUOUS FROM SPLICE VAULT TO SPLICE VAULT. NO SPLICES WILL BE ALLOWED.
- 5. UNLESS OTHERWISE INDICATED, PULL BOXES SHALL BE #6E FOR SIGNAL INTERCONNECT. PULL BOXES SHALL BE INSTALLED AT A MAXIMUM OF 800' INTERVALS. PULL BOXES SHALL NOT BE LOCATED WITHIN DRIVEWAYS OR WITHIN 1' OF WHEELCHAIR RAMPS.
- 6. EXISTING SIGNALS SHALL REMAIN OPERATIONAL AT ALL TIMES UNLESS OTHERWISE NOTED.
- 7. CONDUIT SHALL BE PVC SCHEDULE 80 AS SHOWN ON THE PLANS. CONDUIT UNDER ROADWAYS AND UNDER CONCRETE SIDEWALKS AND DRIVEWAYS SHALL BE BORED UNLESS OTHERWISE APPROVED BY THE COUNTY. CONDUIT SHALL BE INSTALLED BY THE TRENCHING METHOD ONLY WHERE NOTED ON THE PLANS OR AS ALLOWED BY THE PROJECT
- WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE PROSECUTED TO COMPLETION WITHOUT DELAY SO AS TO PROVIDE
- 9. PVC CONDUIT INSTALLED BY TRENCHING IN PAVEMENT METHOD SHALL HAVE 36" REQUIRED COVER AND COMPLY WITH THE REQUIREMENTS OF ORANGE COUNTY PUBLIC WORKS STANDARD PLAN 133-C-OC.
- 10. CONTRACTOR SHALL USE COMPRESSED AIR TO CLEAN OUT EXISTING CONDUITS PRIOR TO INTERCONNECT CABLE INSTALLATION OR SIGNAL INTERCONNECT RELOCATION.
- 11. ALL DAMAGED OR REMOVED CONCRETE, SIDEWALK, LANDSCAPE, AND PAVEMENT SHALL BE REPLACED (JOINT TO JOINT)
- 12. CONTRACTOR IS RESPONSIBLE FOR UPDATING THE CLOCK AT LEAST ONCE A WEEK ON ALL CONTROLLERS DISCONNECTED FROM THE INTERCONNECT NETWORK DUE TO WORK ON THIS PROJECT.
- 13. THE CONTRACTOR SHALL OBTAIN A PERMIT FROM CALTRANS DISTRICT 12 ENCROACHMENT PERMIT OFFICE, 3347 MICHELSON DRIVE, SUITE 100, IRVINE, CA 92612, TELEPHONE: (949) 724-2445, PRIOR TO CONSTRUCTION ON CALTRANS RIGHT-OF-WAY.
- 14. CONTRACTOR SHALL CLEAR ALL EXISTING PULL BOX INTERIORS FROM DEBRIS AND DIRT PRIOR TO THE INTERCONNECT
- 15. ALL NEW AND EXISTING PULL BOXES SHALL BE GROUTED PRIOR TO INSTALLATION OF INTERCONNECT CABLE(S).
- 16. ALL NEW AND EXISTING CONDUITS SHALL BE DUCT SEALED, AND SHALL INCLUDE DETECTABLE PULL TAPE FURNISHED AND INSTALLED WITH ALL FIBER OPTIC CABLING.

E Santiago Canyon Rd Cerritos Ave . Katamar in E Santa Clara Ave E 4th St

VICINITY MAP

UTILITY COMPANY CONTACTS

	COMPANY	CONTACT	PHONE NUMBER
	ATT TRANSMISSION	JOSEPH FORKERT	(714) 963-7964
	CLEAR CHANNEL OUTDOOR	KEVIN COCIC	(213) 305-0045
	ORANGE COUNTY SANITATION	QUYNH NGUYEN	(714) 593-7326
	DL FMS	MANUEL CALUZA	(424) 703-8266
	GOLDEN STATE WATER	ANGEL MARQUEZ	(714) 528-1463
	KINDER MORGAN ENERGY PARTNERS	TIM SZTO	(714) 560-4908
	MCI - VERIZON	DEAN BOYERS	(972) 729-6322
	METROPOLITAN WATER - ORANGE COUNTY	SUBSTRUCTURES TEAM	(213) 217-6679
	SC GAS TRANSMISSION	UTILITY REQUESTS	(818) 701-4546
	SCE DISTRIBUTION	MAP REQUEST	(714) 796-9999
	WILSHIRE CONNECTION LLC	NOC	(213) 542-0100
	AT&T DISTRIBUTION	SUBSTRUCTURE RECORDS	(510) 645-2929
	COX COMMUNICATIONS	THOMAS ELDRED	(949) 546-2754
	EAST ORANGE COUNTY WATER	JERRY MENDZER	(714) 538-5815
	IRVINE RANCH WATER	RANDY SUNBERG	(949) 453-5551
	LEVEL 3 COMMUNICATIONS	JOHN TRUJILLO	(720) 888-4465
	MPOWER COMMUNICATIONS	MARK DENNING	(949) 864-0296
٠.	CENTURTY LINK	GEORGE MCELVAIN	(303) 992-9931
	SC GAS	RYAN LOPEZ	(714) 634-5067
٠	AIRTOUCH CELLULAR	MATTHEW KANG	(818) 898-2352
`.:	TIME WARNER CABLE	DAVE DOLNEY	(714) 903-8446
			•

ABBREVIATION LIST

AMERICAN PUBLIC WORKS ASSOCIATION LOOP DETECTOR LEAD-IN CABLE EX.

GALVANIZED RIGID CONDUIT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES MUTCD

INTERCONNECT

PROPOSED

SIGNAL INTERCONNECT CABLE

POLYVINYL CHLORIDE

SINGLE MODE FIBER OPTIC

660 South Figueroa Street, Suite 2050, Los Angeles, CA 90017



DIAL TOLL FREE AT LEAST TWO DAYS BEFORE YOU DIG



CONSTRUCTION NOTES:

1 FURNISH AND INSTALL NEW 3" PVC SCHEDULE 80 CONDUIT BY BORING METHOD.

2 FURNISH AND INSTALL 24 SMFO CABLE IN CONDUIT.

3 FURNISH AND INSTALL 12 SMFO CABLE IN CONDUIT.

4 FURNISH AND INSTALL NEW #6E PULL BOX.

5 FURNISH AND INSTALL NEW #6E PULL BOX. REMOVE EXISTING PULL BOX.

INSIDE THE FIBER DISTRIBUTION UNIT. TERMINATE SC CABLES ON THE BACK OF THE PANELS, FUSION SPLICE 6 SMFO CABLE(S) TO DUPLEX CABLE IN SPLICE TRAY. FURNISH AND INSTALL 3 FIBER OPTIC DUPLEX JUMPER CABLES WITH SC CONNECTORS PER AGENCY STANDARD, CONNECT THESE CABLES TO FIBER SWITCH.

10 COIL 50' OF FIBER OPTIC CABLE SLACK IN PULL BOX.

11 FURNISH AND INSTALL NEW 2" PVC SCHEDULE 80 CONDUIT.

12 FURNISH AND INSTALL CA280S CABLE FOR CCTV POWER, VIDEO, AND CONTROL.

13 FURNISH AND INSTALL COHU RISE 4222HD (OR APPROVED EQUAL) CCTV CAMERA.

14 FURNISH AND INSTALL POE INJECTOR AND SURGE PROTECTOR PER CCTV CAMERA MANUFACTURER REQUIREMENTS.

15 FURNISH AND INSTALL FIBER SWITCH PER AGENCY SPECIAL PROVISIONS.

REMOVE AND SALVAGE EXISTING WIRELESS RADIO EQUIPMENT INCLUDING RADIO, ANTENNA, AND EXISTING CATSE

17 EXISTING TRAFFIC SIGNAL CONDUCTORS TO REMAIN.

18 REMOVE AND SALVAGE TO THE COUNTY EXISTING 6 PAIR #22 SIGNAL INTERCONNECT CABLE. ALL OTHER EXISTING TRAFFIC SIGNAL CONDUCTORS TO REMAIN.

FUSION SPLICE 24-STRAND SMFO CABLE TO EXISTING SMFO CABLES IN EXISTING SPLICE ENCLOSURE PER SPLICE DETAIL AS IDENTIFIED ON THE PLANS. CONTRACTOR SHALL RE-SEAL EXISTING SPLICE ENCLOSURE PER MANUFACTURER

FURNISH AND INSTALL 2" GRC CONDUIT BETWEEN PULL BOXES AND DOWN FACE OF RETAINING WALL. INSTALL CONDUIT IN ACCORDANCE WITH NEC REQUIREMENTS.

FURNISH AND INSTALL 2" GRC CONDUIT UNDER EXISTING SOUND WALL. CONTRACTOR TO LOCATE EXISTING PILES PRIOR TO CONDUIT ROUTING MARK-OUT.

FUSION SPLICE 12-STRAND SMFO CABLE TO EXISTING SMFO CABLES IN EXISTING SPLICE ENCLOSURE PER SPLICE DETAIL AS IDENTIFIED ON THE PLANS. CONTRACTOR SHALL RE-SEAL EXISTING SPLICE ENCLOSURE PER MANUFACTURER

CONDUIT INSTALLED CROSSING CULVERT SHALL BE CONCRETE ENCASED AND INSTALLED BY TRENCHING PER ESPLANADE AVE CULVERT CROSSING DETAIL.

CONDUIT INSTALLED CROSSING CULVERT SHALL BE CONCRETE ENCASED AND INSTALLED BY TRENCHING PER FAIRHAVEN AVE CULVERT CROSSING DETAIL.

CB INSTALL CONDUIT INTO EXISTING PULL BOX.

SHEET INDEX

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COUNTY OF ORANGE CCTV CAMERA AND FIBER OPTIC COMMUNICATIONS DESIGN PLANS

TITLE SHEET

FLONA MAN MANAGER SHEET NO. DATE: 04/18/2017 1 OF 25 SCALE: N/A ASCISTANT DIRECTOR PHALID BAZMI, COUNTY ENGINEER DESIGN: JL PROJECT NO. DRAWN: RP/RC CHECKED: MSW

Call before you dig. UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA