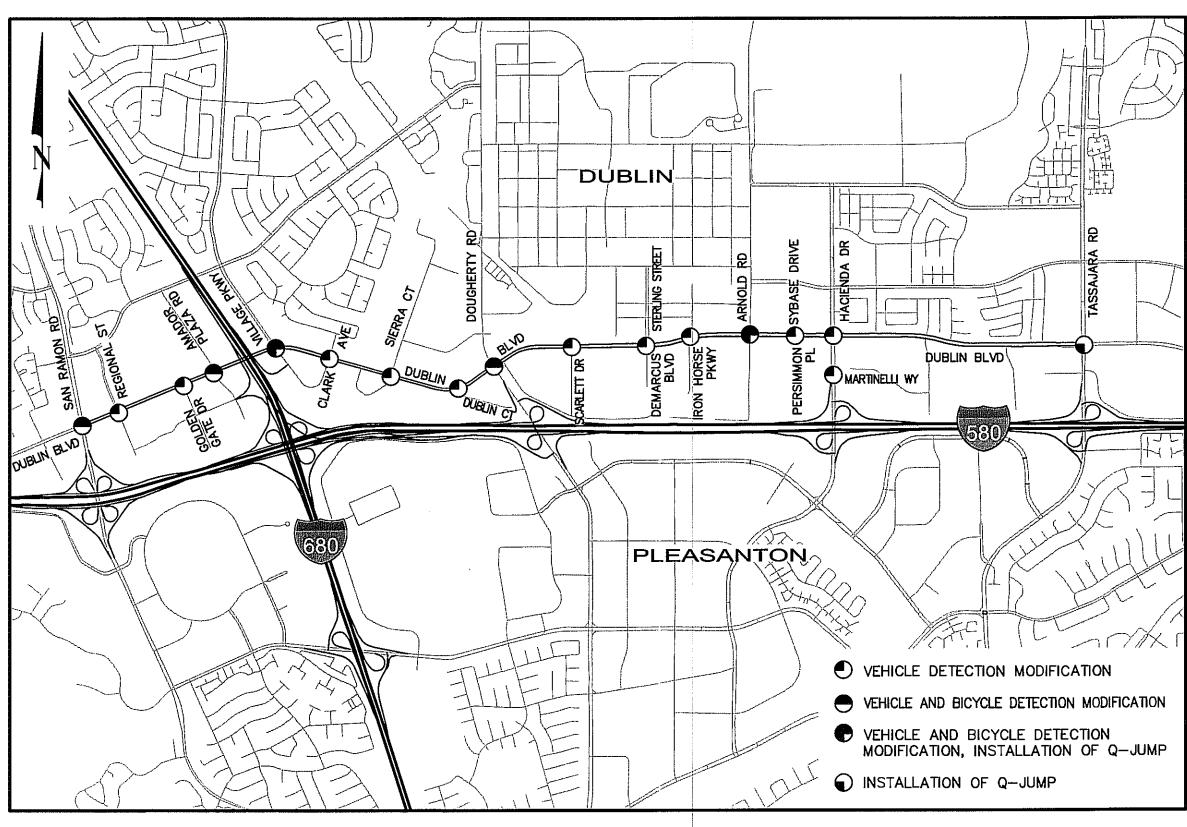
JANUARY 2017



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| 25 | SS-01 Dublin Blvd & Village, Arnold |
| 26 | SS-02 Dublin Blvd & Tassajara Rd |

LOCATION MAP NOT TO SCALE

OWNER

LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY 1362 RUTAN COURT, SUITE 100 LIVERMORE, CA 94551 PHONE: (925) 455-7555 CONTACT: SILVIA COX

CIVIL ENGINEER

KIMLEY-HORN AND ASSOCIATES, INC. 4637 CHABOT DRIVE, SUITE 300 PLEASANTON, CA 94588 PHONE: (925) 398-4840 CONTACT: NIKITA PETROV

CITY OF DUBLIN

ENGINEERING DIVISION, TRAFFIC ENGINEER 100 CIVIL PLAZA, DUBLIN, CA 94568 PHONE: (925) 833-6630 CONTACT: WILLIAM LAI

APPROVAL OF THESE PLANS DOES NOT RELEASE THE CONTRACTOR OF THE RESPONSIBILITY FOR CORRECTION OF MISTAKES, ERRORS, OR OMISSIONS CONTAINED THEREIN. IF DURING THE COURSE OF CONSTRUCTION OF THE IMPROVEMENTS PUBLIC INTEREST REQUIRES A MODIFICATION OF OR A DEPARTURE FROM THE SPECIFICATIONS AND DETAILS OF THE CITY OF LIVERMORE OR THESE PLANS, THE ENGINEER SHALL HAVE THE AUTHORITY TO REQUIRE SUCH MODIFICATIONS OR DEPARTURE AND TO SPECIFY THE MANNER IN WHICH SAME IS TO BE MADE.

APPROVED AS TO DESIGN ONLY BASED ON INFORMATION SUBMITTED HEREON.

APPROVED FOR THE LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY:

EXECUTIVE DIRECTOR

KIMLEY—HORN AND ASSOCIATES, INC. PREPARED UNDER THE DIRECTION OF:

NIKITA A. PETROV R.C.E. 80570

EXPIRES 03/31/17

01/20/17

CITY OF DUBLIN PUBLIC WORKS RECOMMENDED FOR APPROVAL

CITY ENGINEER

TITLE SHEET

SEE PLAN

DRAWN BY: DESIGNED BY: CHECKED BY:
NAP/BJS/JMP NAP/BJS/JMP BES

PROJECT NUMBER: 097026201

JANUARY 2017

DATE

DESCRIPTION

DUBLIN

BOULEVARD

FIELD ELEMENTS

CONSTRUCTION

PROJECT

CV-01

PROJECT GENERAL NOTES:

- THE CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- 2. THE CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS FOR POLICE, FIRE, AMBULANCE, AND THOSE AGENCIES RESPONSIBLE FOR MAINTENANCE OF UTILITIES IN THE VICINITY OF JOB SITE.
- 3. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL OF THE WORK PERFORMED BY HIS SUBCONTRACTORS WITHOUT EXCEPTION.
- 4. THE CONTRACTOR SHALL IDENTIFY A RESPONSIBLE CONTACT PERSON, WHO IS AN EMPLOYEE OF THE CONTRACTOR, AND A 24—HOUR TELEPHONE NUMBER TO CALL TO RESOLVE PROBLEMS WITH NOISE, DUST OR OTHER CONSTRUCTION RELATED ISSUES.
- THE CONTRACTOR SHALL BE REQUIRED TO KEEP ALL CONSTRUCTION ACTIVITIES WITHIN THE RIGHTS—OF—WAY AND EASEMENTS OBTAINED FOR THIS PROJECT UNLESS OTHERWISE SHOWN. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, VEHICLES AND EQUIPMENT, LIMITS OF TRENCH EXCAVATIONS, AND STOCKPILED NEW MATERIAL.
- 6. THE CONTRACTOR SHALL PROVIDE PROTECTIVE DEVICES INCLUDING BARRICADES, FENCING, WARNING SIGNS, LIGHTS, FLAGGERS OR OTHER ITEMS NECESSARY TO ENSURE PUBLIC SAFETY WITHIN THE PROJECT SITE. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- 7. EXISTING CITY COMMUNICATION AND SIGNAL FACILITIES ARE LOCATED IN THE PROJECT AREA. COMMUNICATION AND SIGNAL FACILITIES DAMAGED BY CONTRACTOR'S OPERATIONS SHALL BE TEMPORARILY REPAIRED AND THEN REPLACED AT THE CONTRACTOR'S EXPENSE. DAMAGED SIGNAL INTERCONNECT CABLE SHALL BE REPLACED FOR THE ENTIRE LENGTH BETWEEN CONTROLLER CABINETS.
- CONTRACTOR SHALL EXERCISE DUE CAUTION DURING CONSTRUCTION TO PROTECT ANY EXISTING LANDSCAPING, FIXTURES, EQUIPMENT, IRRIGATION, CONCRETE SIDEWALK, CONCRETE DRIVEWAY, CONCRETE CURB AND GUTTER, AND AC PAVING TO REMAIN. ANY DAMAGE RESULTING FROM CONTRACTOR OPERATIONS SHALL BE REPAIRED AS DIRECTED BY THE CITY'S REPRESENTATIVE, AT NO ADDITIONAL COST TO THE CITY.
- 9. DUST SHALL BE CONTROLLED AND ADJOINING STREET AND PRIVATE DRIVEWAYS SHALL BE KEPT CLEAN OF PROJECT DIRT, MUD, MATERIALS AND DEBRIS, TO THE SATISFACTION OF THE COUNTY ENGINEER.
- 10. THIS PROJECT INVOLVES WORK IN PUBLIC AREAS AND NEAR PRIVATE PROPERTY. THE CONTRACTOR SHALL SPECIFICALLY INSTRUCT ALL HIS/HER WORKERS TO EXERCISE GOOD PUBLIC RELATIONS DURING THE WORK, INCLUDING BEING COURTEOUS, AVOIDING THE USE OF SWEAR WORDS, AND MINIMIZING DAMAGE TO EXISTING IMPROVEMENTS.
- 11. CONTRACTOR SHALL SWEEP AND CLEAN THE CONSTRUCTION SITE DAILY BEFORE THE END OF EACH WORKING DAY.
- 12. IT IS INTENDED THAT THESE PLANS REQUIRE ALL LABOR AND MATERIALS NECESSARY FOR COMPLETION OF WORK IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES OR AMBIGUITIES WHICH MAY EXIST IN PLANS OR SPECIFICATIONS. ENGINEER'S INTERPRETATION OR CORRECTION THEREOF SHALL BE FINAL AND CONCLUSIVE. WHERE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT THE ENGINEER SHALL DETERMINE THE BEST GENERAL PRACTICE TO BE USED AND ONLY MATERIALS AND WORKMANSHIP OF FIRST QUALITY SHALL BE USED.
- 13. THE CONTRACTOR SHALL NOTIFY THE CITY'S REPRESENTATIVE IMMEDIATELY, UPON DISCOVERY OF ANY POTENTIAL FIELD CONFLICTS.
- 14. PROPER TRAFFIC CONTROL SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION IN ACCORDANCE WITH THE 2014 CALIFORNIA MUTCD. CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS TO CITY FOR REVIEW AT PRE—CONSTRUCTION MEETING BEFORE STARTING ANY WORK. CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES.
- 15. CONTRACTOR SHALL SEQUENCE WORK TO MAINTAIN PEDESTRIAN ACCESS AROUND EACH INTERSECTION AT ALL TIMES.

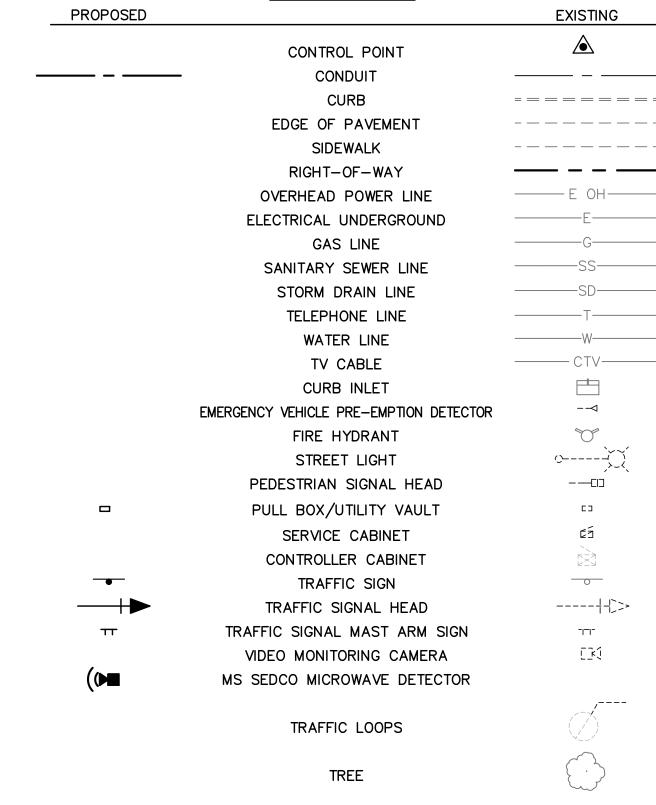
UTILITY NOTES:

- 1. ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THESE UTILITIES. CONTRACTOR SHALL NOT PERFORM ANY EXCAVATION UNTIL ALL UTILITY AGENCIES HAVE BEEN NOTIFIED AND HAVE BEEN GIVEN THE OPPORTUNITY TO MARK THEIR UNDERGROUND FACILITIES IN THE FIELD. CONTRACTOR SHALL CALL U.S.A. (800) 227–2600 AT LEAST 2 WORKING DAYS IN ADVANCE OF THE START OF CONSTRUCTION OF THE PROJECT. CONTRACTOR SHALL POTHOLE AND DETERMINE THE DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- 2. CONTRACTOR SHALL LOCATE AND PRESERVE ALL FACILITIES INCLUDING SEWER, WATER, GAS, IRRIGATION, POWER, STREET LIGHTS, TELEPHONE, SURVEY MARKERS AND OTHERS WHICH MAY BE IN AREA OF CONSTRUCTION, PRIOR TO INSTALLATION OF SIGNAL POLES. NOT ALL LATERALS ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL LOCATE AND MARK LATERALS PRIOR TO CONSTRUCTION.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ADJUSTMENT OF ALL EXISTING UTILITIES WITH THE RESPECTIVE UTILITY COMPANIES AT NO ADDITIONAL COST.
- 4. CONTRACTOR SHALL MAINTAIN ALL EXISTING SEWER AND WATER SERVICE TO PROPERTIES WITHIN CONSTRUCTION AREA AT ALL TIMES DURING CONSTRUCTION.

TRAFFIC SIGNAL GENERAL NOTES:

- 1. ALL WORK AND MATERIALS SHALL COMPLY WITH THE 2015 STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) REVISED STANDARD PLANS AND CALTRANS REVISED STANDARD SPECIFICATIONS.
- 2. ALL SIGN CODES REFER TO THE 2014 CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CAMUTCD) UNLESS OTHERWISE NOTED.
- 3. REFER TO CALTRANS REVISED STANDARD PLANS ES-IA, ES-IB, AND ES-1C FOR KEY TO SYMBOLS AND ABBREVIATIONS.
- 4. ALL NEW PULL BOXES SHALL BE #5 UNLESS OTHERWISE NOTED ON THE PLANS.
- 5. ALL SIGNAL POLES AND SIGNAL STANDARDS SHALL BE GALVANIZED.
- 6. ALL NEW SIGNAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AS SPECIFIED ON THESE PLANS AND SPECIAL PROVISIONS.
- 7. TRAFFIC SIGNAL POLES SHALL BE SET BACK FROM FACE OF CURB NO LESS THAN 30 INCHES TO FACE OF STANDARD OR POLE, AND THE BASE PLATE INSTALLED PARALLEL TO THE STOP BAR UNLESS OTHERWISE SPECIFIED BY THE ENGINEER
- 8. CONTRACTOR SHALL PROTECT ALL EXISTING CABLES AND CONDUCTORS INSIDE EXISTING CONDUITS AND PULL BOXES WHERE NEW CABLES ARE TO BE INSTALLED.
- 9. AS-BUILTS USED ON THIS PROJECT MAY NOT REPRESENT ALL RECENT CHANGES. FIELD VERIFICATION IS RECOMMENDED.
- 10. ALL NEW ETHERNET CABLES AND EXTENDERS CONNECTED TO MICROWAVE DETECTORS SHALL BE LABELED WITH THE PHASE NUMBERS CORRESPONDING TO THE MICROWAVE DETECTOR.
- 11. AS BUILTS USED ON THIS PROJECT ARE SHOWN FOR REFERENCE PURPOSES ONLY TO IDENTIFY LOCATION OF EXISTING SIGNAL EQUIPMENT. ALL CONSTRUCTION NOTES AND GENERAL NOTES ASSOCIATED WITH THESE AS BUILTS SHALL NOT BE TAKEN IN CONSIDERATION. CONTRACTOR SHALL VERIFY WITH ENGINEER FOR CLARIFICATION IF CONFLICT IS DISCOVERED.

<u>LEGEND</u>



ABBREVIATIONS

| BIU BOW | BUS INTERFACE UNIT BACK OF WALK |
|------------|---|
| CB DH | INSTALL CONDUIT INTO EXISTING PULL EDETECTOR HANDHOLE |
| | DETECTOR HANDHOLE DETECTOR LEAD—IN CABLE |
| | EMERGENCY VEHICLE PRE-EMPTION |
| EX, EXIST | |
| · | FIRE HYDRANT |
| FOC | FACE OF CURB |
| LG | LIP OF GUTTER |
| MIN | MINIMUM |
| OC | ON CENTER |
| OLA | OVERLAP A |
| PB | PULL BOX |
| PED | PEDESTRIAN |
| PEU | PHOTOELECTRIC UNIT |
| | PESESTRIAN PUSH BUTTON |
| • | RIGHT OF WAY |
| RC | EQUIPMENT OR MATERIAL TO BE |
| | REMOVED AND BECOME THE |
| | PROPERTY OF THE CONTRACTOR |
| RS | REMOVE AND SALVAGE EQUIPMENT |
| SNS | STREET NAME SIGN |
| ST | STREET |
| TYP | TYPICAL |







JANUARY 2017

ISSUES/REVISIONS

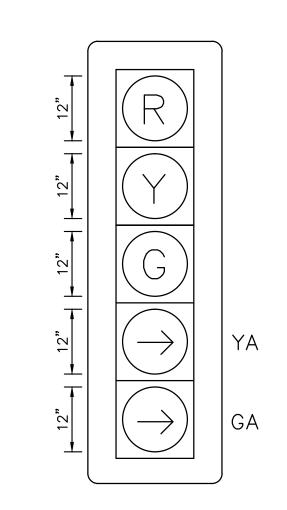
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DUBLIN
BOULEVARD
FIELD ELEMENTS
CONSTRUCTION
PROJECT

| DRAWN BY: NAP/BJS/JMP | DESIGNED BY: NAP/BJS/ | /JMP | CHECKED BY: BES | APPI |
|--------------------------|--------------------------|------|--------------------|------|
| PROJECT NU | MBER: | 097 | 026201 | |
| SCALE: | | SEE | PLAN | |

TRAFFIC SIGNAL GENERAL NOTES

GN-01



DETAIL 'A' 5-SECTION SIGNAL HEAD

NOT TO SCALE

BUS EXEMPT

DETAIL 'E'

"BUS EXEMPT" SIGN

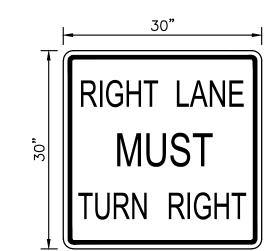
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NOT TO SCALE

DETAIL 'B' TRANSIT SIGNAL HEAD (2-SECTION SIGNAL HEAD)

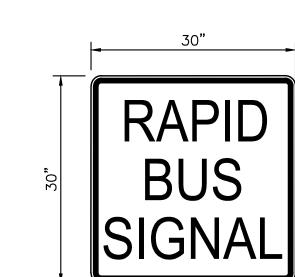
NOT TO SCALE

(1) LENS WILL BE USED IN FLASHING MODE TO INDICATE "PREPARE TO STOP"



DETAIL 'C' R3-7(R) SIGN (BLACK ON WHITE BACKGROUND)

NOT TO SCALE



DETAIL 'D' "RAPID BUS SIGNAL" SIGN (BLACK ON WHITE BACKGROUND)

NOT TO SCALE



PHONE: 925-398-4840 WWW.KIMLEY-HORN.COM

JANUARY 2017

ISSUES/REVISIONS

DATE DESCRIPTION

DUBLIN BOULEVARD FIELD ELEMENTS CONSTRUCTION **PROJECT**

NAP/BJS/JMP NAP/BJS/JMP BES

PROJECT NUMBER: 097026201

TRAFFIC SIGNAL

DETAILS

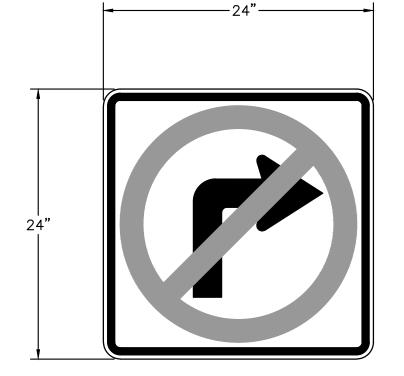
DT-01

26 OF

RIGHT LANE TURN RIGHT EXCEPT BUSES

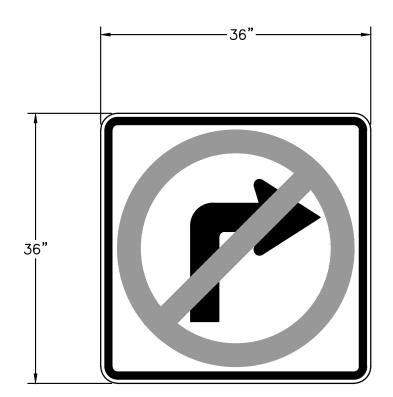
DETAIL 'F' MODIFIED R3-7(R) SIGN (BLACK ON WHITE BACKGROUND)

NOT TO SCALE



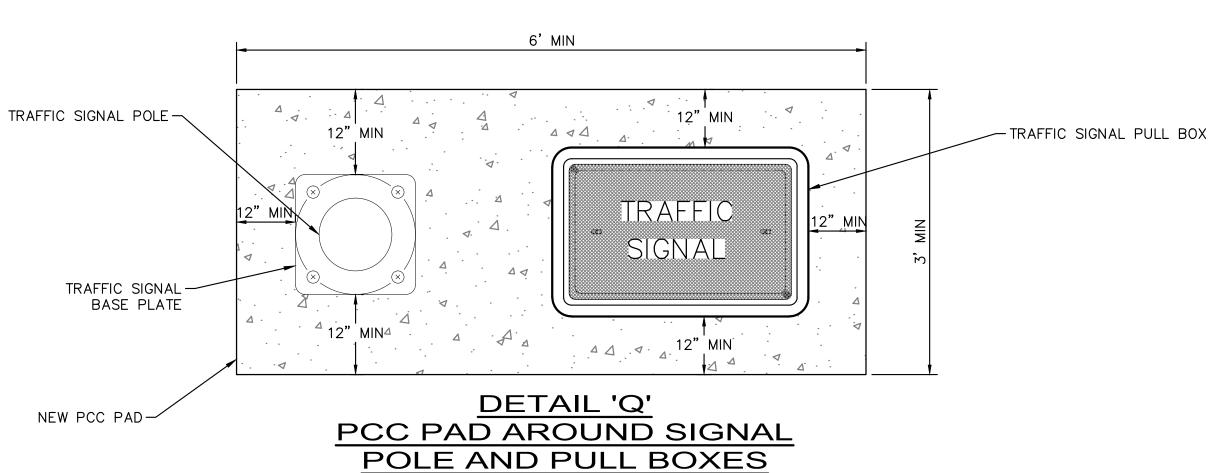
DETAIL 'G' NO RIGHT TURN **BLANK-OUT SIGN (R3-1)**

NOT TO SCALE



DETAIL 'H' NO RIGHT TURN BLANK-OUT SIGN (R3-1)

NOT TO SCALE



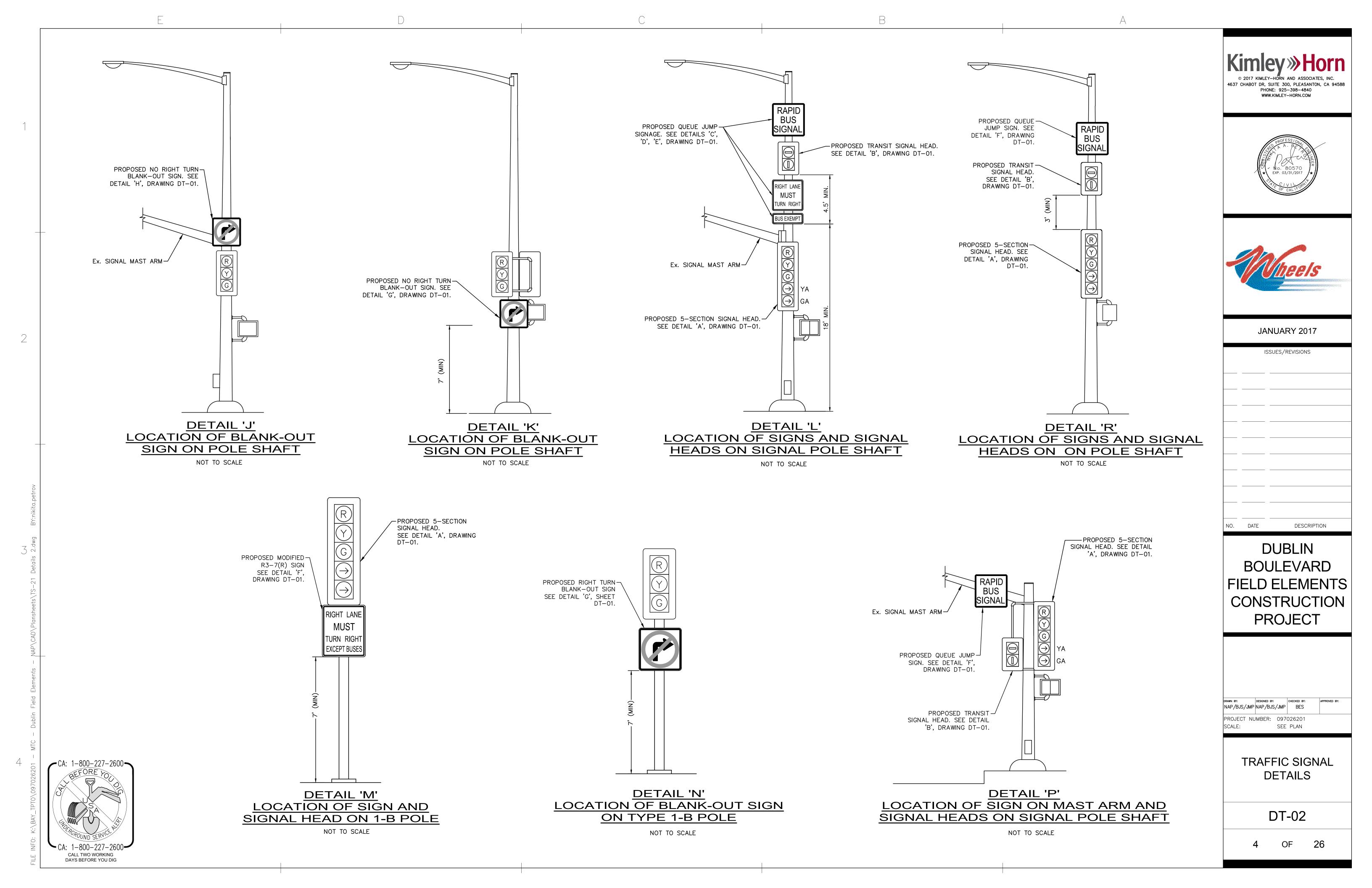
NOT TO SCALE

1. CONCRETE PAD SHALL BE A MINIMUM OF 4" IN DEPTH BELOW THE GROUND AND CONFORM TO CALTRANS REVISED STANDARD SPECIAL PROVISIONS 87-1.03(3).

2. CONTRACTOR SHALL INSTALL GROUT AT THE BOTTOM OF THE PULL BOX PER

CA: 1-800-227-2600 DAYS BEFORE YOU DIG

REVISED CALTRANS STANDARD PLAN ES-8B.



- INSTALL OWNER FURNISHED INTERSECTOR BICYCLE/VEHICLE MICROWAVE DETECTOR ON SIGNAL MAST ARM PER SPECIFICATIONS. CONTRACTOR TO COORDINATE WITH THE ENGINEER AND WESTERN PACIFIC SIGNAL REPRESENTATIVE FOR PROGRAMMING MICROWAVE DETECTION ZONES.
- FURNISH AND INSTALL DETECTOR CARD RACK. INSTALL OWNER FURNISHED TCIPI-4 INTERSECTOR POWER INJECTOR AND FOUR (4) TCIB INTERFACE BOARDS FOR INTERSECTOR DETECTORS IN EXISTING CABINET. FURNISH AND INSTALL ETHERNET PATCH CABLES BETWEEN THE POWER INJECTOR AND INTERFACE BOARDS.
- FURNISH AND INSTALL PPB COMMON TO EACH PEDESTRIAN PHASE AS SHOWN BY THE CONDUCTOR SCHEDULE.

 COIL AT LEAST 20 FEET OF WIRE IN PULL BOX NEXT TO SIGNAL POLE WITH PHASE NUMBER
- 4 DISCONNECT TWO EXISTING BACK LOOPS AT CLOSEST PULL BOX. ABANDON LOOP WIRE IN PLACE.
- 5 DISCONNECT EXISTING COUNT LOOPS AT THE CONTROLLER CABINET AND ABANDON IN PLACE.
- FURNISH AND INSTALL ONE ETHERNET EXTENDER INSIDE THE SIGNAL POLE HANDHOLE, TO EXTEND ETHERNET CABLE TO INTERSECTOR DETECTOR LOCATED ON POLE (F).

SEE DRAWING GN-01 FOR TRAFFIC SIGNAL GENERAL NOTES

| | CONDU | CT | OF | R S | | HE | DL | JLI | | | | | | | |
|---------------------------------|-------------------|----------------------|------------|---------------|---------------|------|-----|---------------------|------------|-------------|-------------|-------------|-------|-------------|---|
| AWG | | NUMBER OF CONDUCTORS | | | | | | | | | | | | | |
| OR | | | | | | | RU | N N | <u>UMB</u> | ER | | | | | |
| CABLE | | $\sqrt{1}$ | /2\ /2\ | $\frac{1}{3}$ | $\frac{1}{4}$ | /5\ | /6\ | $\frac{\hat{7}}{2}$ | ^\ /8\ | / <u>9\</u> | <u>/10\</u> | <u>/11\</u> | /12\ | <u>/13\</u> | |
| | ø4 PPB COMMON | 2 | 2 | 1 | 1 | 1 | | | | | 1 | 1 | 1 | 1 | Ī |
| NO. 14 | ø6 PPB COMMON | 2 | (| 2 | \odot | 1 | | | | | | | | | I |
| NO. 14 | ø8 PPB COMMON | 2 | 1 | | | | | | | | | | | 1 | L |
| | TOTAL NO. 14 | 87/6 | 70/(5) | 34/(3 | 29/2 | 24/2 | 11 | 3 | 3 | 11 | 23/1 | 23/1 | 28/(1 | 33/(2 | 1 |
| NO. 8 | TOTAL NO. 8 | 3 | 6 | 3 | 3 | 3 | 1 | | | 3 | 3 | 3 | 3 | 3 | Γ |
| NO. 6 | TOTAL NO. 6 | 2 | | | | | | | | | | | | | Γ |
| 3/8" PULL ROPE | TOTAL PULL ROPE | 2 | | | | | | 1 | 1 | | | | | | Ī |
| SIGNAL INTERCONNECT CABLE (SIC) | TOTAL SIC | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | Γ |
| DETECTOR LEAD-IN CABLE | TOTAL DLC | 47 | 47 | 24 | 17 | 12 | 12 | 9 | | | 8 | 13 | 13 | 18 | Γ |
| EVP CABLES | TOTAL CABLE | 4 | 3 | 1 | 1 | 1 | | | | 1 | 1 | 1 | 2 | 2 | Ī |
| | ø2 & ø5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | Ī |
| MICROWAVE DETECTION | ø4 & ø7 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | Γ |
| CABLE | ø3 & ø8 | 1 | 1 | | | | | | | | | | 1 | 1 | Γ |
| (CAT 5E) | ø1 & ø6 | 1 | 1 | | | | | | | | | | | | Γ |
| | TOTAL CABLE | 4 | 4 | 2 | 2 | 2 | 1 | 9 | 1 | | | | 1 | 1 | I |
| | CONDUIT FILL (%) | 24% | 21% | 40% | 33% | 27% | 19% | 16% | 3% | 7% | 17% | 21% | 24% | 30% | Ţ |
| | CONDUIT SIZE (IN) | <u> </u> | | | _,, | _,, | | _ •• | 7" | 7" | 7" | 7" | | 7" | 둗 |

CONDUCTOR SCHEDULE NOTES (THIS SHEET ONLY)

DRAWINGS MAY NOT INCLUDE

ALL RECENT UPDATES. FIELD

VERIFICATION IS RECOMMENDED.

- ALL CONDUITS, CABLES, AND CONDUCTORS ARE EXISTING UNLESS OTHERWISE NOTED.
- $^{\wedge}_{\angle X \Delta}$ = EXISTING CONDUIT RUN





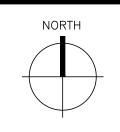


JANUARY 2017

ISSUES/REVISIONS

. DATE DESCRIPTION

DUBLIN
BOULEVARD
FIELD ELEMENTS
CONSTRUCTION
PROJECT



DRAWN BY:

NAP/BJS/JMP

DESIGNED BY:

NAP/BJS/JMP

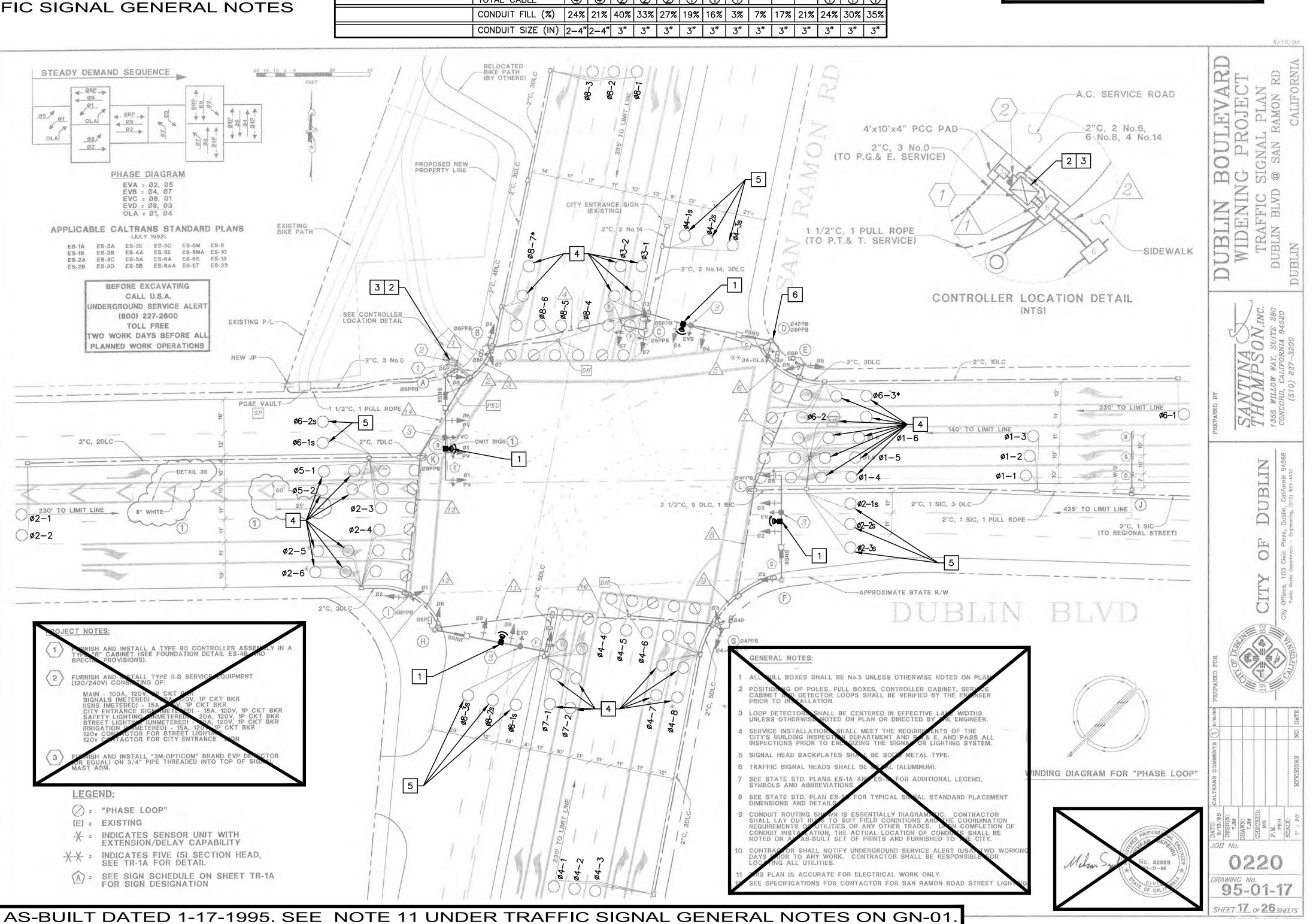
BES

PROJECT NUMBER: 097026201

TRAFFIC SIGNAL PLAN
DUBLIN BLVD & SAN

RAMON RD

TS-01





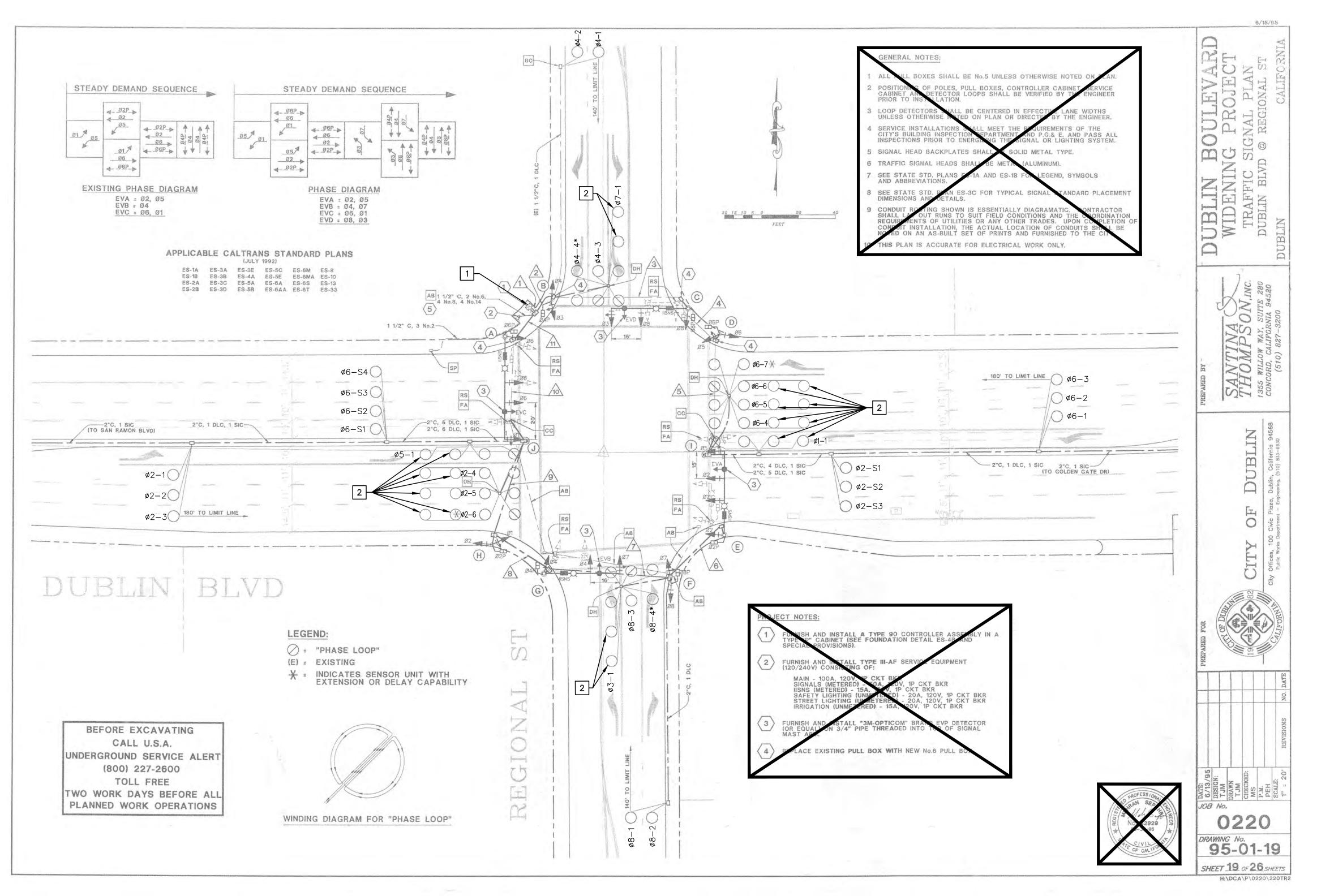
REWIRE LOOP DETECTOR LEAD-IN CABLES IN THE CABINET SO THAT EACH DETECTOR IS WIRED TO ITS OWN CHANNEL. PROVIDE DIAGRAM SHOWING HOW CABLES ARE LANDED IN THE CABINET. LABEL EACH WIRE WITH PHASE AND DETECTOR NUMBER.

DISCONNECT TWO EXISTING BACK LOOPS AT CLOSEST PULL BOX. ABANDON LOOP WIRE IN PLACE.

DRAWINGS MAY NOT INCLUDE VERIFICATION IS RECOMMENDED.

ALL RECENT UPDATES. FIELD

SEE DRAWING GN-01 FOR TRAFFIC SIGNAL GENERAL NOTES



CA: 1-800-227-2600

AS-BUILT DATED 1-19-1995. SEE NOTE 11 UNDER TRAFFIC SIGNAL GENERAL NOTES ON GN-01





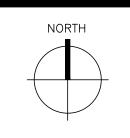


JANUARY 2017

| ISSUES/REVISIONS |
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DESCRIPTION

DUBLIN BOULEVARD FIELD ELEMENTS CONSTRUCTION **PROJECT**



| DRAWN BY: NAP/BJS/JMP | DESIGNED BY: NAP/BJS | /JMP | CHECKED BY BES | : | APPI |
|--------------------------|-------------------------|------|-------------------|---|------|
| PROJECT NU | IMBER: | 097 | 026201 | | |

TRAFFIC SIGNAL PLAN DUBLIN BLVD & **REGIONAL ST**

TS-02

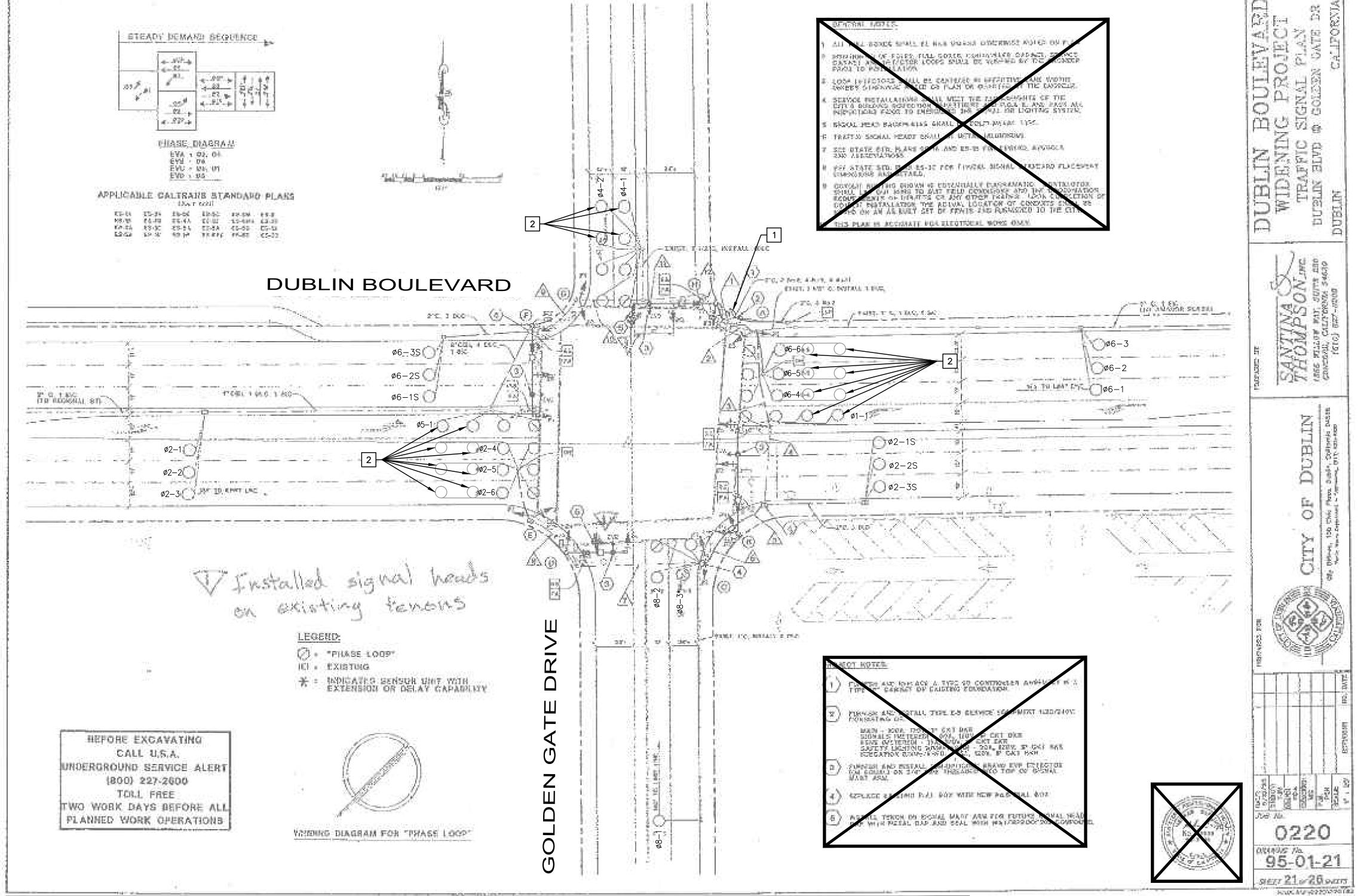
REWIRE LOOP DETECTOR LEAD—IN CABLES IN THE CABINET SO THAT EACH DETECTOR IS WIRED TO ITS OWN CHANNEL. PROVIDE DIAGRAM SHOWING HOW CABLES ARE LANDED IN THE CABINET. LABEL EACH WIRE WITH PHASE AND DETECTOR NUMBER.

SEE DRAWING GN-01 FOR TRAFFIC SIGNAL GENERAL NOTES

2 DISCONNECT TWO EXISTING BACK LOOPS AT CLOSEST PULL BOX. ABANDON LOOP WIRE IN PLACE.

ALL RECENT UPDATES. FIELD VERIFICATION IS RECOMMENDED.

DRAWINGS MAY NOT INCLUDE







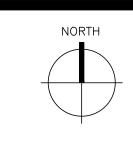


JANUARY 2017

ISSUES/REVISIONS

DATE DESCRIPTION

DUBLIN BOULEVARD FIELD ELEMENTS CONSTRUCTION **PROJECT**



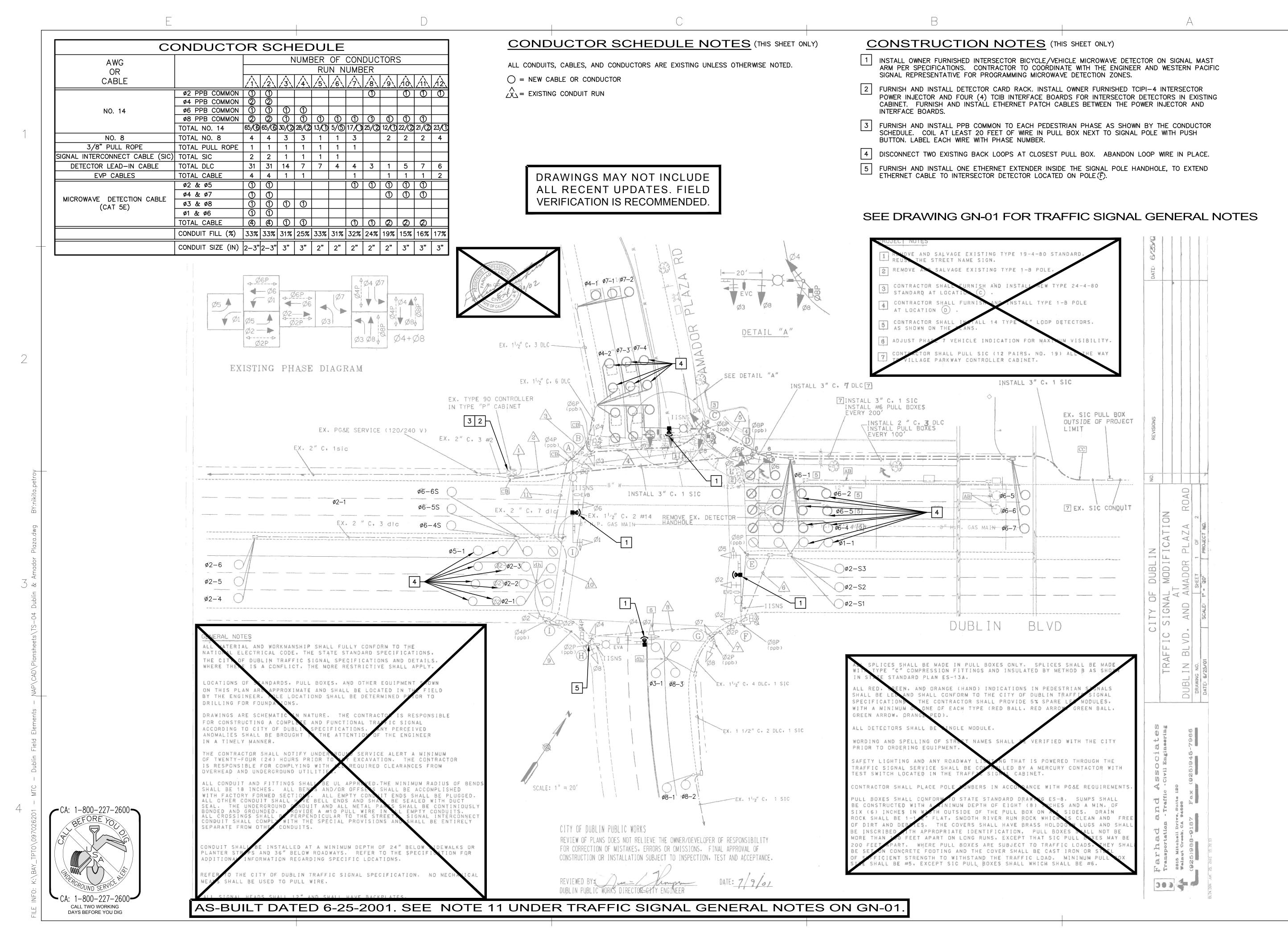
PROJECT NUMBER: 097026201

TRAFFIC SIGNAL PLAN DUBLIN BLVD & GOLDEN GATE DR

TS-03

CA: 1-800-227-2600-DAYS BEFORE YOU DIG

AS-BUILT DATED 1-19-1995. SEE NOTE 11 UNDER TRAFFIC SIGNAL GENERAL NOTES ON GN-01







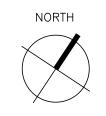


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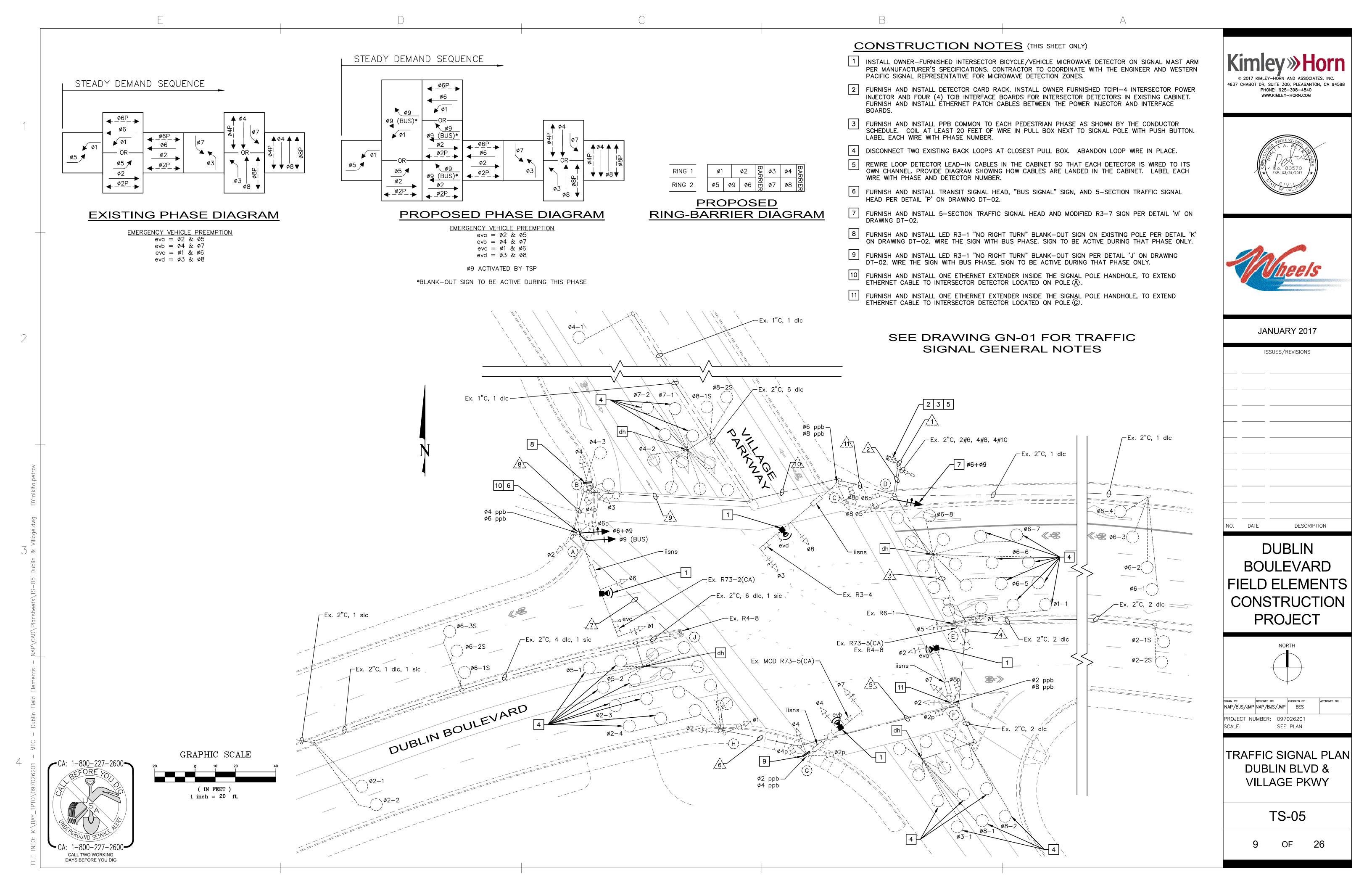
DUBLIN BOULEVARD FIELD ELEMENTS CONSTRUCTION **PROJECT**



NAP/BJS/JMP NAP/BJS/JMP BES PROJECT NUMBER: 097026201 SEE PLAN

TRAFFIC SIGNAL PLAN **DUBLIN BLVD &** AMADOR PLAZA RD

TS-04



| | CONDL | ICT | OR | SC | CHE | EDL | JLE | Ξ | | | | |
|--|--|---|--|-------------------------|-----------------------|---------------|----------|--------------|---|-----------------------|------------------------------------|--|
| AWG | | | | | NUMB | ER O | | | CTORS | 3 | | |
| OR | | | I . | | | RUN | NUM | IBER | I . | I . | | |
| CABLE | | <u> </u> | <u> </u> | ^ 3_ | <u> </u> | <u> </u> | <u> </u> | <u> </u> | \ _8_ | <u> </u> | <u>/10\</u> | <u> </u> |
| | ø1 | 6 | 6 | 3 | 3 | 3 | 3 | | 3 | 3 | 3 | 3 |
| | ø2 | 6 | 6 | 3 | 3 | 3 | 3 | | 3 | 3 | 3 | 3 |
| | ø3 | 3 | 3 | | | | | | | 3 | 3 | 3 |
| | ø4 | 6 | 6 | 3 | 3 | 3 | | | | 3 | 3 | 3 |
| | ø5 | 3 | 3 | 3 | | | | | | | | |
| | ø6 | 3 | 3 | | | | | | 3 | 3 | 3 | 3 |
| | ø7 | 3 | 3 | 3 | 3 | 3 | | | | | | |
| | Ø8 | 3 | 3 | | | | | - | | | | <u>3</u> |
| | ø9 ø2P | <u>4</u> | <u>4</u>) | 2 | 2 | 2 | | | 4 | 4 | 4 | |
| | W2F Ø4P | 4 | 4 | 2 | 2 | 2 | | | | 2 | 2 | 2 |
| | Ø6P | 2 | 2 | | | | | | 2 | 2 | 2 | 2 |
| | Ø8P | 4 | 4 | 2 | 2 | | | | | - | - - | 2 |
| NO. 14 | ø2PPB | 2 | 2 | 2 | 2 | 2 | | | | | | |
| | ø4PPB | 4 | 4 | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 |
| | ø6PPB | 2 | 2 | | | | | | 2 | 2 | 2 | 2 |
| | Ø8PPB | 4 | 4 | 2 | 2 | | | | | | | 2 |
| | Ø2 PPB COMMON | 1 | ① | ① | 1 | 1 | | | | | | |
| | ø4 PPB COMMON | 2 | 2 | 1 | 1 | 1 | | 1 | 0 | 0 | 0 | 0 |
| | ø6 PPB COMMON | 1 | 0 | | | | | | 1 | 1 | 1 | 1 |
| | Ø8 PPB COMMON | 2 | 2 | 1 | 1 | | | | | | | 1 |
| | IISNS | | 4 | 2 | 2 | 2 | | | 2 | 2 | 2 | 2 |
| | BLANK-OUT SIGN | 4 | 4 | <u>②</u> 3 | <u>②</u> 3 | 2 | 3 | 3 | 3 | <u>②</u> 3 | 2 | 2 |
| | SPARES | 6 | 6 | | | 3 | <u>၂</u> | _ | _ | _ | 3 | 3 |
| | TOTAL NO. 14 | 1 4)/63 | 1 9/67 | ⑤ /32 | ⑤ /29 | 4)/25 | 9 | ①/6 | 6 /20 | 8 /28 | 8 /28 | 9 /3 |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | LIGHTING | | 4 | 2 | 2 | 2 | 2 | | | 2 | 2 | 2 |
| NO. 8 | SIGNAL NEUTRAL | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | TOTAL NO. 8 | 2 | 6 | 3 | 3 | 3 | 3 | 1 | 1 | 3 | 3 | 3 |
| | 101/12 140. 0 | | <u> </u> | | | | | ' | <u> </u> | | | <u> </u> |
| | | <u> </u> | ! | | | | | ! | ! | ! | | <u> </u> |
| NO. 6 | 120V CONTROLLER SERVICE | 2 | | | | | | | | | | |
| 110. 0 | 1207 GONTINGELEN SERVICE | | | | | | | | | | | |
| | | <u> </u> | <u> </u> | | | | | | <u> </u> | <u> </u> | | <u> </u> |
| | ø1 | 1 | 1 | 1 | | | | | | | | |
| | ø2 | 3 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 |
| | ø3 | 1 | 1 | 1 | 1 | | | | | | | |
| | ø4 | 3 | 3 | | | | | | | 1 | 3 | 3 |
| | ø5 | 2 | 2 | | | | | 2 | 2 | 2 | 2 | 2 |
| DETECTOR | ø6 | 5 | 5 | | | | | | | | | |
| LEAD-IN CABLE | ø7 | 2 | 2 | | | | | | I | | 2 | 2 |
| CADLE | ø8 | 1 | | | | I | | | | | | |
| | | <u> </u> | 1 | 1 | 1 | | | | | | | |
| | Ø2 SAMPLER LOOPS | 2 | 2 | 2 | 1 | | | | | | | |
| | <pre>ø2 SAMPLER LOOPS ø6 SAMPLER LOOPS</pre> | 2 | 2 | | 1 | | | 3 | 3 | 3 | 3 | 3 |
| | Ø2 SAMPLER LOOPS | 2 | 2 | | 1 | | | 3 | 3 | 3 | | |
| | <pre>ø2 SAMPLER LOOPS ø6 SAMPLER LOOPS</pre> | 2 | 2 | | 4 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| | <pre>Ø2 SAMPLER LOOPS Ø6 SAMPLER LOOPS Ø8 SAMPLER LOOPS</pre> | 2 3 2 | 3 2 | 2 | | 2 | 2 | | | | 3 2 | 3 2 |
| | <pre>### ### ### ### ### ### ### ### ### ##</pre> | 2 3 2 | 3 2 | 2 | | 2 | 2 | | 6 | 7 | 3 2 | 3 2 13 |
| | ø2 SAMPLER LOOPS ø6 SAMPLER LOOPS ø8 SAMPLER LOOPS TOTAL DLC EVA | 2 3 2 25 1 | 2 3 2 25 | 7 | 4 | | 2 | | | | 3 2 | 3 2 |
| EMERGENCY | <pre># 92 SAMPLER LOOPS # 6 SAMPLER LOOPS # 8 SAMPLER LOOPS TOTAL DLC EVA EVB</pre> | 2 3 2 25 1 1 1 | 2 3 2 25 1 1 | 2 | | 2 | 2 | | 6 | 7 | 3 2 13 | 3 2 13 |
| VEHICLE | ø2 SAMPLER LOOPS ø6 SAMPLER LOOPS ø8 SAMPLER LOOPS TOTAL DLC EVA EVB EVC | 2 3 2 25 1 1 1 | 2 3 2 25 1 1 | 7 | 4 | | 2 | | 6 | 7 | 3 2 13 | 3 2 13 |
| VEHICLE | <pre># 92 SAMPLER LOOPS # 6 SAMPLER LOOPS # 8 SAMPLER LOOPS TOTAL DLC EVA EVB</pre> | 2 3 2 25 1 1 1 | 2 3 2 25 1 1 | 7 | 4 | | 2 | | 6 | 7 | 3 2 13 | 3 2 13 |
| VEHICLE | ø2 SAMPLER LOOPS ø6 SAMPLER LOOPS ø8 SAMPLER LOOPS TOTAL DLC EVA EVB EVC | 2 3 2 25 1 1 1 | 2 3 2 25 1 1 | 7 | 4 | | 2 | | 6 | 7 | 3 2 13 | 3 2 13 |
| VEHICLE | ø2 SAMPLER LOOPS ø6 SAMPLER LOOPS ø8 SAMPLER LOOPS TOTAL DLC EVA EVB EVC EVD | 2 3 2 25 1 1 1 1 | 2 3 2 25 1 1 1 | 7 | 4 | 1 | 2 | | 1 | 7 | 3 2 13 | 3 2 13 1 1 |
| VEHICLE | ø2 SAMPLER LOOPS ø6 SAMPLER LOOPS ø8 SAMPLER LOOPS TOTAL DLC EVA EVB EVC EVD | 2 3 2 25 1 1 1 1 | 2 3 2 25 1 1 1 | 7 | 4 | 1 | 2 | | 1 | 7 | 3 2 13 | 3 2 13 1 1 |
| VEHICLE | <pre># 2 SAMPLER LOOPS # 6 SAMPLER LOOPS # 8 SAMPLER LOOPS TOTAL DLC EVA EVB EVC EVD TOTAL EVP CABLE # 2 & # 5</pre> | 2 3 2 25 1 1 1 1 4 | 2 3 2 25 1 1 1 1 4 | 7 1 1 | 1 | 1 | 2 | | 1 | 7 | 3 2 13 | 3 2 13 1 1 |
| VEHICLE PREEMPTION MICROWAVE | ø2 SAMPLER LOOPS ø6 SAMPLER LOOPS ø8 SAMPLER LOOPS TOTAL DLC EVA EVB EVC EVD TOTAL EVP CABLE ø2 & ø5 ø4 & ø7 | 2 3 2 25 1 1 1 1 1 4 | 2 3 2 25 1 1 1 1 4 | 7 | 1 | 1 | 2 | | 1 | 7 | 3 2 13 | 3 2 13 1 1 1 1 3 |
| VEHICLE PREEMPTION MICROWAVE DETECTION | ø2 SAMPLER LOOPS ø6 SAMPLER LOOPS ø8 SAMPLER LOOPS TOTAL DLC EVA EVB EVC EVD TOTAL EVP CABLE ø2 & ø5 ø4 & ø7 ø3 & ø8 | 2 3 2 25 1 1 1 1 4 | 2 3 2 25 1 1 1 1 4 | 7 1 1 | 1 | 1 | 2 | | 6 1 1 2 | 7 1 1 2 | 3 2 13 | 3 2 13 1 1 1 1 3 |
| VEHICLE PREEMPTION MICROWAVE DETECTION CABLE | ø2 SAMPLER LOOPS ø6 SAMPLER LOOPS ø8 SAMPLER LOOPS TOTAL DLC EVA EVB EVC EVD TOTAL EVP CABLE ø2 & ø5 ø4 & ø7 | 2 3 2 25 1 1 1 1 1 4 | 2 3 2 25 1 1 1 1 4 | 7 1 1 | 1 | 1 | 2 | | 1 | 7 | 3 2 13 | 3 2 13 1 1 1 1 3 |
| VEHICLE PREEMPTION MICROWAVE DETECTION | ø2 SAMPLER LOOPS ø6 SAMPLER LOOPS ø8 SAMPLER LOOPS TOTAL DLC EVA EVB EVC EVD TOTAL EVP CABLE ø2 & ø5 ø4 & ø7 ø3 & ø8 ø1 & ø6 | 2 3 2 25 1 1 1 1 4 (1) (1) (1) | 2 3 2 25 1 1 1 1 4 | 7 1 1 ① ① | 1 1 ① | 1 | 2 | | 6 1 1 2 | 7 1 1 2 | 3 2 13 1 1 2 | 3 2 13 1 1 1 1 3 |
| VEHICLE PREEMPTION MICROWAVE DETECTION CABLE | ø2 SAMPLER LOOPS ø6 SAMPLER LOOPS ø8 SAMPLER LOOPS TOTAL DLC EVA EVB EVC EVD TOTAL EVP CABLE ø2 & ø5 ø4 & ø7 ø3 & ø8 | 2 3 2 25 1 1 1 1 4 | 2 3 2 25 1 1 1 1 4 | 7 1 1 | 1 | 1 | 2 | | 6 1 1 2 | 7 1 1 2 | 3 2 13 | 3 2 13 1 1 1 1 3 |
| VEHICLE PREEMPTION MICROWAVE DETECTION CABLE | ø2 SAMPLER LOOPS ø6 SAMPLER LOOPS ø8 SAMPLER LOOPS TOTAL DLC EVA EVB EVC EVD TOTAL EVP CABLE ø2 & ø5 ø4 & ø7 ø3 & ø8 ø1 & ø6 | 2 3 2 25 1 1 1 1 4 (1) (1) (1) | 2 3 2 25 1 1 1 1 4 | 7 1 1 ① ① | 1 1 ① | 1 | 2 | | 6 1 1 2 | 7 1 1 2 | 3 2 13 1 1 2 | 3 2 13 1 1 1 1 3 |
| VEHICLE PREEMPTION MICROWAVE DETECTION CABLE (CAT 5E) | ø2 SAMPLER LOOPS ø6 SAMPLER LOOPS ø8 SAMPLER LOOPS TOTAL DLC EVA EVB EVC EVD TOTAL EVP CABLE ø2 & ø5 ø4 & ø7 ø3 & ø8 ø1 & ø6 TOTAL CAT 5E CABLE | 2 3 2 25 1 1 1 1 4 | 2 3 2 25 1 1 1 1 4 | 7 7 1 0 0 | 1 1 ① | 1 | 2 | 6 | 6 1 1 2 | 7 1 1 2 | 3 2 13 1 1 2 | 3 2 13 1 1 1 1 3 |
| VEHICLE PREEMPTION MICROWAVE DETECTION CABLE | ø2 SAMPLER LOOPS ø6 SAMPLER LOOPS ø8 SAMPLER LOOPS TOTAL DLC EVA EVB EVC EVD TOTAL EVP CABLE ø2 & ø5 ø4 & ø7 ø3 & ø8 ø1 & ø6 | 2 3 2 25 1 1 1 1 4 (1) (1) (1) | 2 3 2 25 1 1 1 1 4 | 7 1 1 ① ① | 1 1 ① | 1 | 2 | | 6 1 1 2 | 7 1 1 2 | 3 2 13 1 1 2 | 3 2 13 1 1 1 1 3 |
| VEHICLE PREEMPTION MICROWAVE DETECTION CABLE (CAT 5E) | ø2 SAMPLER LOOPS ø6 SAMPLER LOOPS ø8 SAMPLER LOOPS TOTAL DLC EVA EVB EVC EVD TOTAL EVP CABLE ø2 & ø5 ø4 & ø7 ø3 & ø8 ø1 & ø6 TOTAL CAT 5E CABLE | 2 3 2 25 1 1 1 1 4 | 2 3 2 25 1 1 1 1 4 | 7 7 1 0 0 | 1 1 ① | 1 | 2 | 6 | 6 1 1 2 | 7 1 1 2 | 3 2 13 1 1 2 | 3 2 13 1 1 1 1 3 |
| VEHICLE PREEMPTION MICROWAVE DETECTION CABLE (CAT 5E) | ø2 SAMPLER LOOPS ø6 SAMPLER LOOPS ø8 SAMPLER LOOPS TOTAL DLC EVA EVB EVC EVD TOTAL EVP CABLE Ø2 & Ø5 Ø4 & Ø7 Ø3 & Ø8 Ø1 & Ø6 TOTAL CAT 5E CABLE | 2 3 2 25 1 1 1 1 4 (1) (1) (1) (2) | 2 3 2 25 1 1 1 1 4 () () () () | 7 7 1 1 ① ① | 4 1 1 ① ① | 1 1 | | 1 | 6 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 7 1 1 2 ① | 3 2 13 1 1 2 (1) | 3 2 13 1 1 1 1 3 ① |
| MICROWAVE DETECTION CABLE (CAT 5E) | ø2 SAMPLER LOOPS ø6 SAMPLER LOOPS ø8 SAMPLER LOOPS TOTAL DLC EVA EVB EVC EVD TOTAL EVP CABLE ø2 & ø5 ø4 & ø7 ø3 & ø8 ø1 & ø6 TOTAL CAT 5E CABLE | 2 3 2 25 1 1 1 1 4 | 2 3 2 25 1 1 1 1 4 | 7 7 1 0 0 | 1 1 ① | 1 | 7% | 6 | 6 1 1 2 | 7 1 1 2 | 3 2 13 1 1 2 | 3 2 13 1 1 1 1 3 ① |
| VEHICLE PREEMPTION MICROWAVE DETECTION CABLE (CAT 5E) | ø2 SAMPLER LOOPS ø6 SAMPLER LOOPS ø8 SAMPLER LOOPS TOTAL DLC EVA EVB EVC EVD TOTAL EVP CABLE Ø2 & Ø5 Ø4 & Ø7 Ø3 & Ø8 Ø1 & Ø6 TOTAL CAT 5E CABLE | 2 3 2 25 1 1 1 1 4 (1) (1) (1) (2) | 2 3 2 25 1 1 1 1 4 () () () () | 7 7 1 1 ① ① | 4 1 1 ① ① | 1 1 | | 1 | 6 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 7 1 1 2 ① | 3 2 13 1 1 2 (1) | 3 2 13 1 1 1 1 3 ① |
| VEHICLE PREEMPTION MICROWAVE DETECTION CABLE (CAT 5E) | ø2 SAMPLER LOOPS ø6 SAMPLER LOOPS ø8 SAMPLER LOOPS TOTAL DLC EVA EVB EVC EVD TOTAL EVP CABLE Ø2 & Ø5 Ø4 & Ø7 Ø3 & Ø8 Ø1 & Ø6 TOTAL CAT 5E CABLE | 2 3 2 25 1 1 1 1 1 4 (1) (1) (1) (2) 2 28% | 2 3 2 25 1 1 1 1 4 () () () () | 7 7 1 1 ① ① | 4 1 1 ① ① | 1 1 | | 1 | 6 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 7 1 1 2 ① | 3 2 13 1 1 2 (1) | 3 2 13 1 1 1 1 3 |

| ALL CONDUITS. | CABLES. | AND | CONDUCTORS | ARE | EXISTING | UNLESS | OTHERWISE | NOTED. |
|---------------|---------|-----|------------|-----|-----------------|--------|-----------|--------|

^{○ =} NEW CABLE OR CONDUCTOR

^{* =} CONDUIT SIZE TO BE VERIFIED AT NEXT SUBMITTAL

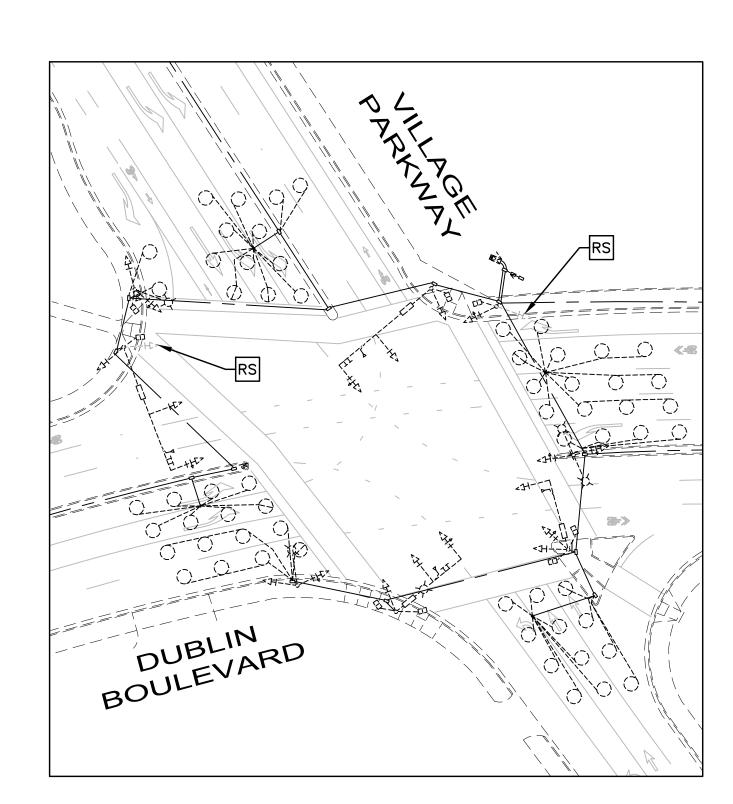


| | | | | | EC | QUIPMEN | NT SCH | IEDL | JLE | | | | | |
|----------|---------------------------|--------------------|-----------------------|-----------------|--------------|------------------|------------|--------------|--------|------------|--------------|---------------|---|--|
| LOGATION | | STANDARD | | . 50 | VEHICLE SIGN | AL MOUNTING | PEDESTRIAN | SIGNAL | ı | PUSH BUTTO | N | 110NO 1 F0FND | CDECIAL NOTES | |
| LOCATION | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | - LED LUMINAIRE | MAST ARM | POLE | MOUNT | POLE QUAD | Ø | ARROW | POLE QUAD | IISNS LEGEND | SPECIAL NOTES | |
| (A) | 28-5-80 | 55' | _ | _ | 2 MAS | SV-3-T | SP-1-T | W OS E | 4 6 | ← | W S E | Village Pkwy | INSTALL INTERSECTOR DETECTOR | |
| (B) | 15TS | - | 15' | 133 | - | SV-2-T SV-1 N | SP-1-T | W S E | _ | _ | _ | - | FURNISH AND INSTALL BLANK OUT SIGN | |
| © | 28-5-80 | 50' | _ | _ | 2 MAS | SV-1-T | SP-1-T | W OF E | 6 8 | ← | W E | Dublin Blvd | INSTALL INTERSECTOR DETECTOR | |
| (D) | 1-B | - | _ | _ | - | TV-2-T | SP-1-T | W S E | _ | _ | _ | - | | |
| (E) | EXISTING PG&E POLE | - | 15' 15' | _ | - | SV-1 SV-1 | - | _ | _ | _ | _ | - | | |
| Ē | 18–1–70 | 30' | _ | _ | 1 MAS | SV-2-T | SP-2-T | W S E | 2 | ← | W N S | Village Pkwy | INSTALL INTERSECTOR DETECTOR | |
| (G) | 24-4-80 | 35' | 15' | 133 | 2 MAS | SV-1-T | SP-2-T | W E | 2 | → | W N E | Dublin Blvd | FURNISH AND INSTALL BLANK OUT SIGN INSTALL INTERSECTOR DETECTOR | |
| (H) | 15TS | - | 15' | 133 | - | SV-2-T SV-1 N | - | _ | _ | - | _ | - | | |
| () | PEDESTRIAN PUSH BUTTON | _ | _ | _ | - | - | - | _ | _ | - | _ | - | | |

ALL POLES AND EQUIPMENT ARE EXISTING UNLESS OTHERWISE NOTED.

OTHER REQUIREMENTS ARE COVERED BY NOTES, LEGEND, SPECIAL PROVISIONS AND CALTRANS STANDARD SPECIFICATIONS. FOR TYPE OF STANDARD, VEHICLE AND PEDESTRIAN MOUNTING, SEE CALTRANS STANDARD PLANS.

FOR THE PURPOSE OF LOCATING NEW AND EXISTING EQUIPMENT ON POLES, DUBLIN BOULEVARD SHALL BE CONSIDERED AN EAST-WEST ROADWAY.



EXISTING SIGNAL EQUIPMENT

SCALE 1"=40'







JANUARY 2017

| | | SSUES/REVISIONS |
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| | | |
| NO. | DATE | DESCRIPTION |

BOULEVARD
FIELD ELEMENTS
CONSTRUCTION
PROJECT

| N BY: P/BJS/JMP | DESIGNED BY: NAP/BJS/JMP | CHECKED BY: BES | APPROVED BY: | | | | | | | | |
|--------------------------|-----------------------------|--------------------|--------------|--|--|--|--|--|--|--|--|
| 0.IECT_NUMBER: 007026201 | | | | | | | | | | | |

SEE PLAN

TRAFFIC SIGNAL SCHEDULES DUBLIN BLVD &

VILLAGE PKWY

TS-06

10

 $[\]angle X = EXISTING CONDUIT RUN$

N - NEW EQUIPMENT

1 DISCONNECT TWO EXISTING BACK LOOPS AT CLOSEST PULL BOX. ABANDON LOOP WIRE IN PLACE.

SEE DRAWING GN-01 FOR TRAFFIC SIGNAL GENERAL NOTES

DRAWINGS MAY NOT INCLUDE ALL RECENT UPDATES. FIELD VERIFICATION IS RECOMMENDED.

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4637 CHABOT DR, SUITE 300, PLEASANTON, CA 94588
PHONE: 925-398-4840
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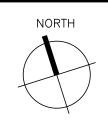


JANUARY 2017
ISSUES/REVISIONS

_ ___ _

D. DATE DESCRIPTION

DUBLIN
BOULEVARD
FIELD ELEMENTS
CONSTRUCTION
PROJECT



DRAWN BY:
NAP/BJS/JMP DESIGNED BY:
NAP/BJS/JMP BES

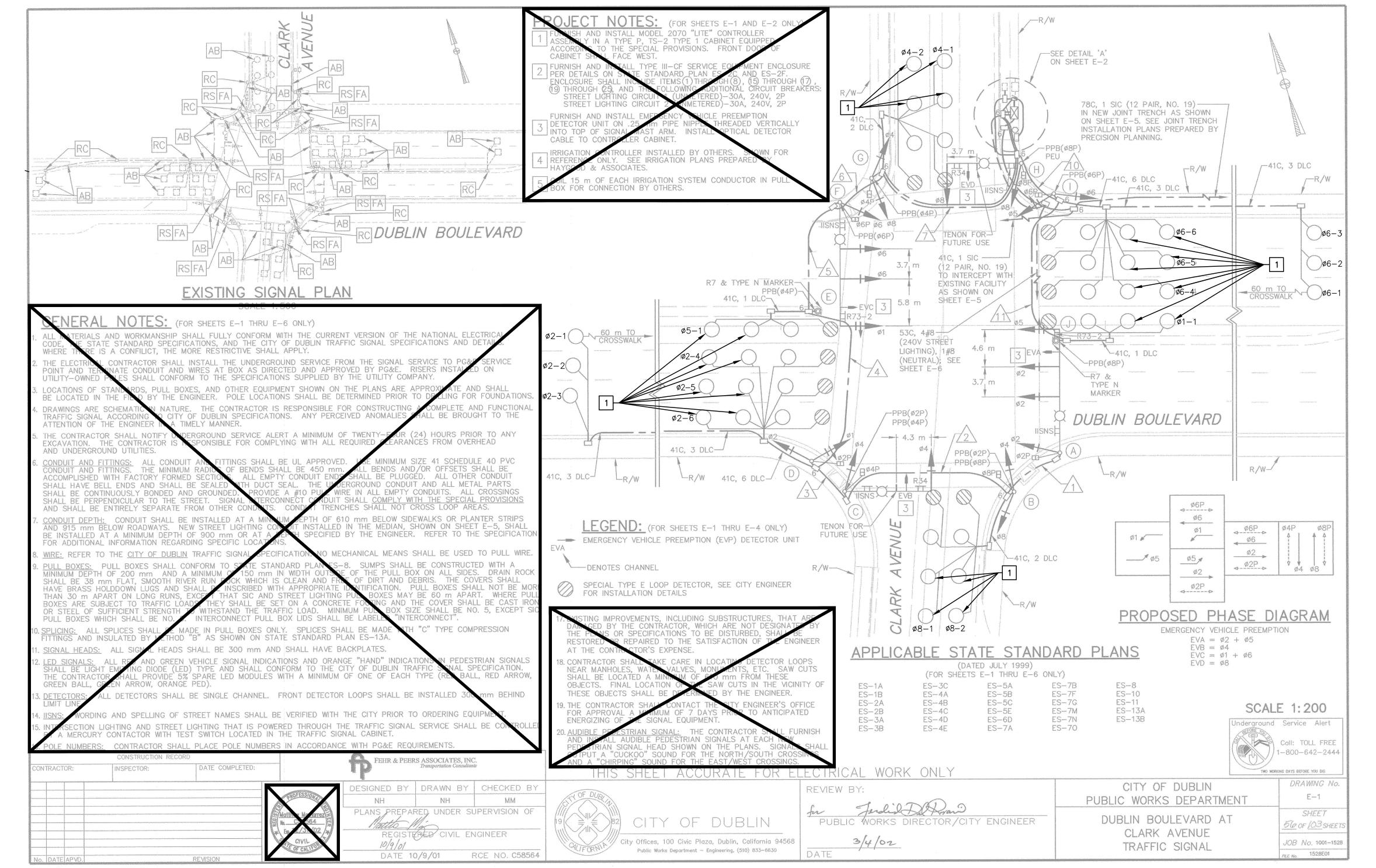
PROJECT NUMBER: 097026201

TRAFFIC SIGNAL PLAN DUBLIN BLVD & CLARK AVE

SEE PLAN

TS-07

1 OF



CA: 1-800-227-2600

CA: 1-800-227-2600

CA: 1-800-227-2600

CALL TWO WORKING

DAYS BEFORE YOU DIG

AS-BUILT DATED 3-4-2002. SEE NOTE 11 UNDER TRAFFIC SIGNAL GENERAL NOTES ON GN-01.

1 DISCONNECT TWO EXISTING BACK LOOPS AT CLOSEST PULL BOX. ABANDON LOOP WIRE IN PLACE.

SEE DRAWING GN-01 FOR TRAFFIC SIGNAL GENERAL NOTES

DRAWINGS MAY NOT INCLUDE ALL RECENT UPDATES. FIELD VERIFICATION IS RECOMMENDED.







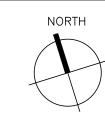
JANUARY 2017

ISSUES/REVISIONS

DESCRIPTION

DATE

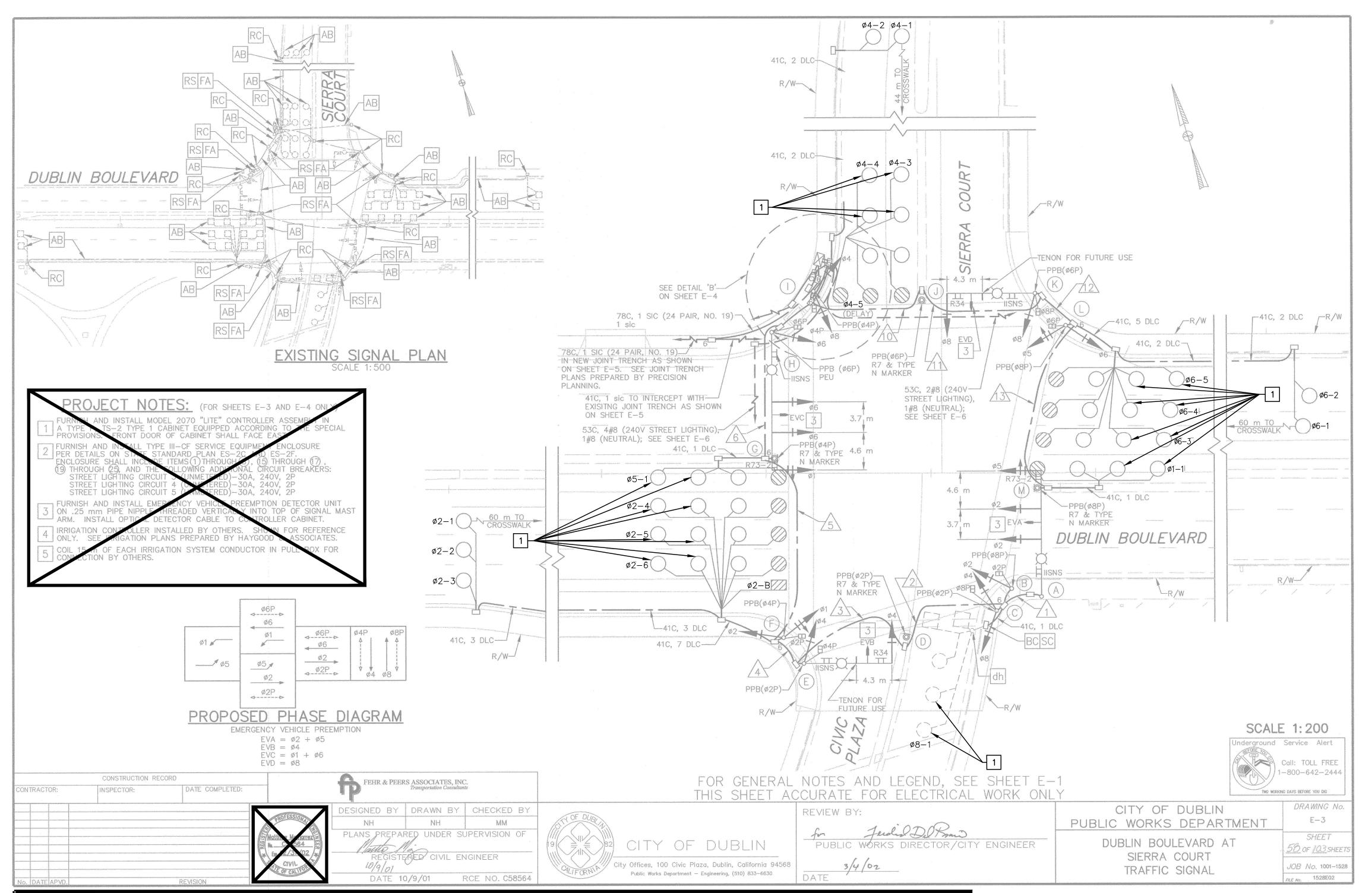
DUBLIN BOULEVARD FIELD ELEMENTS CONSTRUCTION **PROJECT**



NAP/BJS/JMP NAP/BJS/JMP BES PROJECT NUMBER: 097026201

TRAFFIC SIGNAL PLAN DUBLIN BLVD & SIERRA CT - CIVIC PLAZA

TS-08





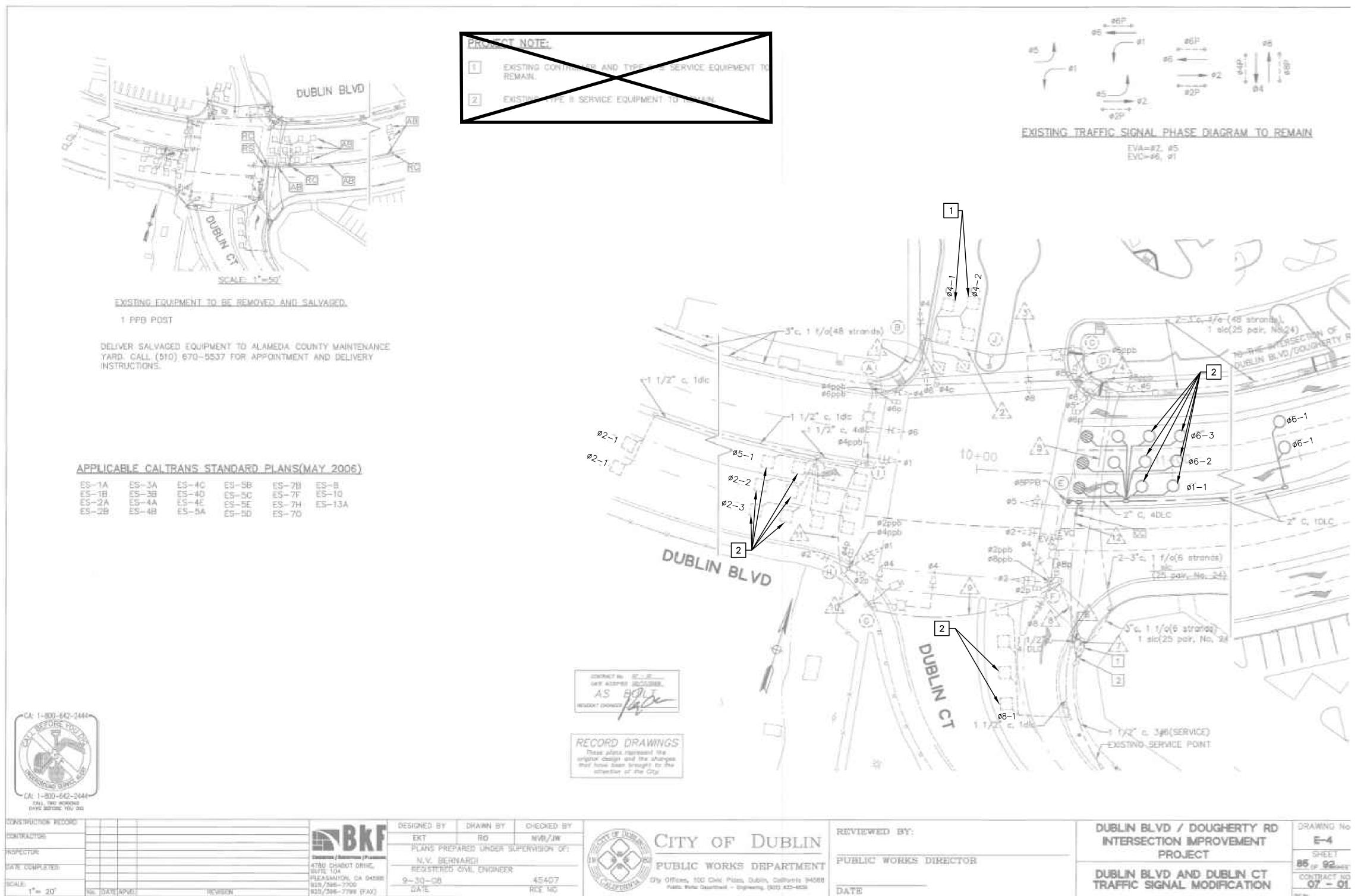
AS-BUILT DATED 3-4-2002. SEE NOTE 11 UNDER TRAFFIC SIGNAL GENERAL NOTES ON GN-01.

1 DISCONNECT EXISTING BACK LOOP AT CLOSEST PULL BOX. ABANDON LOOP WIRE IN PLACE.

2 DISCONNECT TWO EXISTING BACK LOOPS AT CLOSEST PULL BOX. ABANDON LOOP WIRE IN PLACE.

DRAWINGS MAY NOT INCLUDE ALL RECENT UPDATES. FIELD VERIFICATION IS RECOMMENDED.

SEE DRAWING GN-01 FOR TRAFFIC SIGNAL GENERAL NOTES









JANUARY 2017 ISSUES/REVISIONS

DATE DESCRIPTION

DUBLIN BOULEVARD FIELD ELEMENTS CONSTRUCTION **PROJECT**



NAP/BJS/JMP NAP/BJS/JMP BES PROJECT NUMBER: 097026201 SEE PLAN

TRAFFIC SIGNAL PLAN DUBLIN BLVD & **DUBLIN CT**

TS-09

OF

CA: 1-800-227-2600 CALL TWO WORKING DAYS BEFORE YOU DIG

City Offices, 100 Chic Pites, Dublin, Collision 94568 Asia: Vote Described - Engineery, (00) A12-408

AS-BUILT DATED 2-17-2009. SEE NOTE 11 UNDER TRAFFIC SIGNAL GENERAL NOTES ON GN-01

DUBLIN BLVD AND DUBLIN CT TRAFFIC SIGNAL MODIFICATION

13

26

CONDUCTOR SCHEDULE CONSTRUCTION NOTES (THIS SHEET ONLY) NUMBER OF CONDUCTORS AWG INSTALL OWNER FURNISHED INTERSECTOR BICYCLE/VEHICLE MICROWAVE DETECTOR ON SIGNAL MAST ARM PER SPECIFICATIONS. CONTRACTOR RUN NUMBER OR TO COORDINATE WITH THE ENGINEER AND WESTERN PACIFIC SIGNAL REPRESENTATIVE FOR PROGRAMMING MICROWAVE DETECTION ZONES. CABLE INSTALL OWNER—FURNISHED TCIPI—4 INTERSECTOR POWER INJECTOR AND FOUR (4) TCIB INTERFACE BOARDS FOR INTERSECTOR DETECTORS IN EXISTING CABINET. FURNISH AND INSTALL ETHERNET PATCH CABLES BETWEEN THE POWER INJECTOR AND INTERFACE BOARDS. 2 2 2 2 2 2 1 2 1 0 1 0 1 ø6 PPB COMMON FURNISH AND INSTALL PPB COMMON TO EACH PEDESTRIAN PHASE AS SHOWN BY THE CONDUCTOR SCHEDULE. COIL AT LEAST 20 FEET OF WIRE IN PULL BOX NEXT TO SIGNAL POLE WITH PUSH BUTTON. LABEL EACH WIRE WITH PHASE NUMBER. NO. 14 Ø8 PPB COMMON 0 | 0 | 0 | BLANK OUT SIGN DISCONNECT TWO EXISTING BACK LOOPS AT CLOSEST PULL BOX. ABANDON LOOP WIRE IN PLACE. TOTAL NO. 14 NO. 12 TOTAL NO. 12 FURNISH AND INSTALL ONE ETHERNET EXTENDER INSIDE THE SIGNAL POLE HANDHOLE, TO EXTEND ETHERNET CABLE TO INTERSECTOR DETECTOR LOCATED ON POLE F. NO. 10 TOTAL NO. 10 NO. 8 TOTAL NO. 8 FURNISH AND INSTALL ONE ETHERNET EXTENDER INSIDE THE SIGNAL POLE HANDHOLE, TO EXTEND ETHERNET CABLE TO INTERSECTOR DETECTOR LOCATED ON POLE D. SIGNAL INTERCONNECT CABLE (SIC) TOTAL SIC DETECTOR LEAD-IN CABLE TOTAL DLC 40 | 12 | 12 | 12 | 10 | 3 | 7 | 7 | 4 | 18 | 18 | 6 | 3 ROTATE EXISTING BUS SIGNAL LENSES AND REWIRE TO COMPLY WITH TRANSIT SIGNAL CONFIGURATION AS SHOWN IN DETAIL B ON **EVP CABLES** TOTAL CABLE DRAWING DT-01 AND PER CA MUTCD FIGURE 8C-3(CA). TOTAL CABLE CCTV CABLE ø2 & ø5 REMOVE EXISTING R13A (CA) SIGN AND FURNISH AND INSTALL LED R3-1 "NO RIGHT TURN" BLANK-OUT SIGN ON EXISTING POLE ø4 & ø7 PER DETAIL 'K' ON DRAWING DT-02. WIRE THE SIGN WITH BUS PHASE. SIGN TO BE ACTIVE DURING THAT PHASE ONLY. MICROWAVE DETECTION CABLE ø3 & ø8 (CAT 5E) 9 REMOVE EXISTING R13A (CA) SIGN AND FURNISH AND INSTALL LED R3-1 "NO RIGHT TURN" BLANK-OUT SIGN PER DETAIL 'J' ON 0ø1 & ø6 DRAWING DT-02. WIRE THE SIGN WITH BUS PHASE. SIGN TO BE ACTIVE DURING THAT PHASE ONLY. TOTAL CABLE | (4) | (2) | (2) | (1) | (1) | (1) | | 18% | 14% | 25% | 21% | 19% | 11% | 13% | 18% | 3% | 21% | 23% | 9% | 4% SEE DRAWING GN-01 FOR TRAFFIC SIGNAL GENERAL NOTES ROUGH 5 TO ALAMEDA COUNTY MAINTENAN

ES-38

ES-4D

CONDUCTOR SCHEDULE NOTES (THIS SHEET ONLY)

ALL CONDUITS, CABLES, AND CONDUCTORS ARE EXISTING UNLESS OTHERWISE NOTED.

DRAWINGS MAY NOT INCLUDE

ALL RECENT UPDATES. FIELD

VERIFICATION IS RECOMMENDED.

OLA

EVA=#2, #5

EVB=#4, #7

EVD=#1, #6 EV0=#3, #8

PROPOSED TRAFFIC SIGNAL PHASE DIAGRAM

OLA =#2 + #3

OLB =#8 + #1

= NEW CABLE OR CONDUCTOR

 χ_{λ} = EXISTING CONDUIT RUN

4637 CHABOT DR, SUITE 300, PLEASANTON, CA 94588 PHONE: 925-398-4840 WWW.KIMLEY-HORN.COM





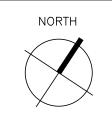
JANUARY 2017

ISSUES/REVISIONS

DATE

DUBLIN BOULEVARD FIELD ELEMENTS CONSTRUCTION **PROJECT**

DESCRIPTION

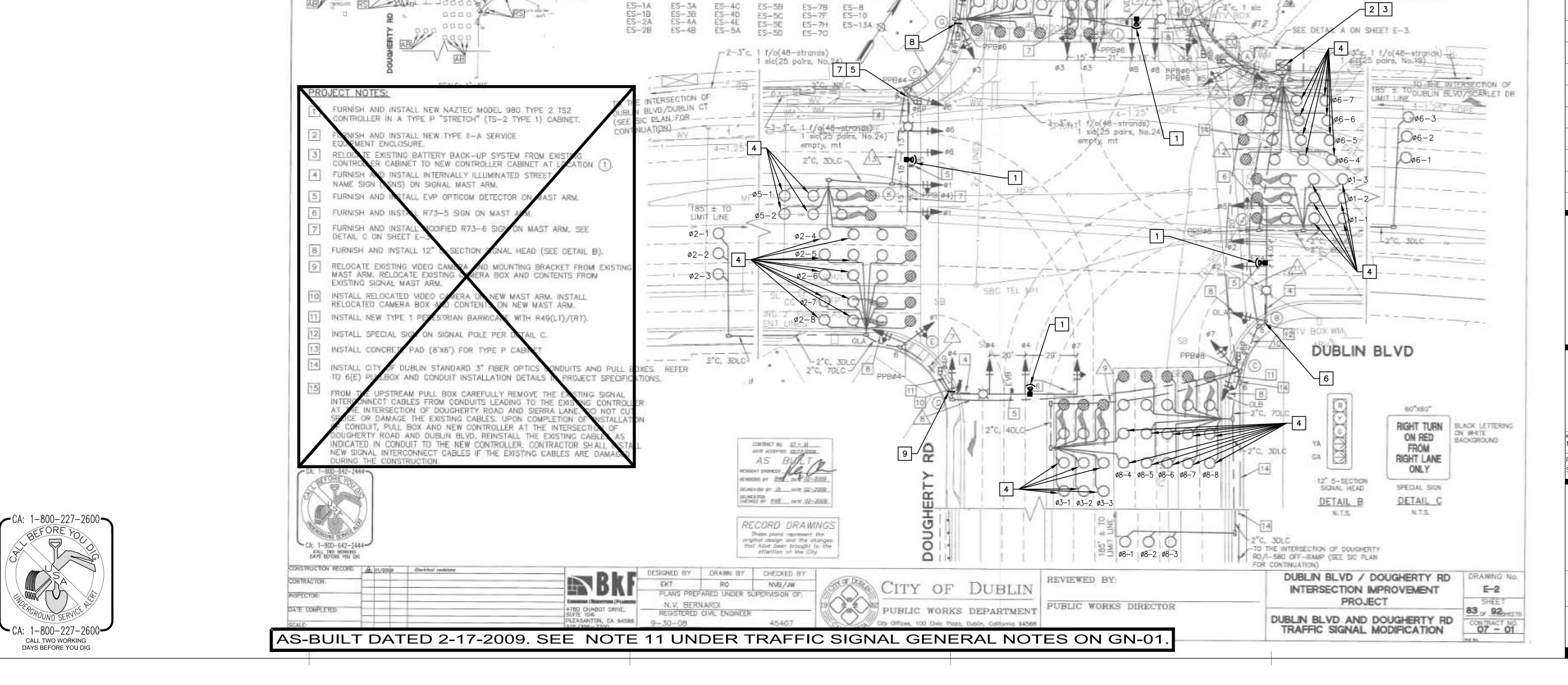


NAP/BJS/JMP NAP/BJS/JMP BES PROJECT NUMBER: 097026201

SEE PLAN

TRAFFIC SIGNAL PLAN **DUBLIN BLVD &** DOUGHERTY RD

TS-10

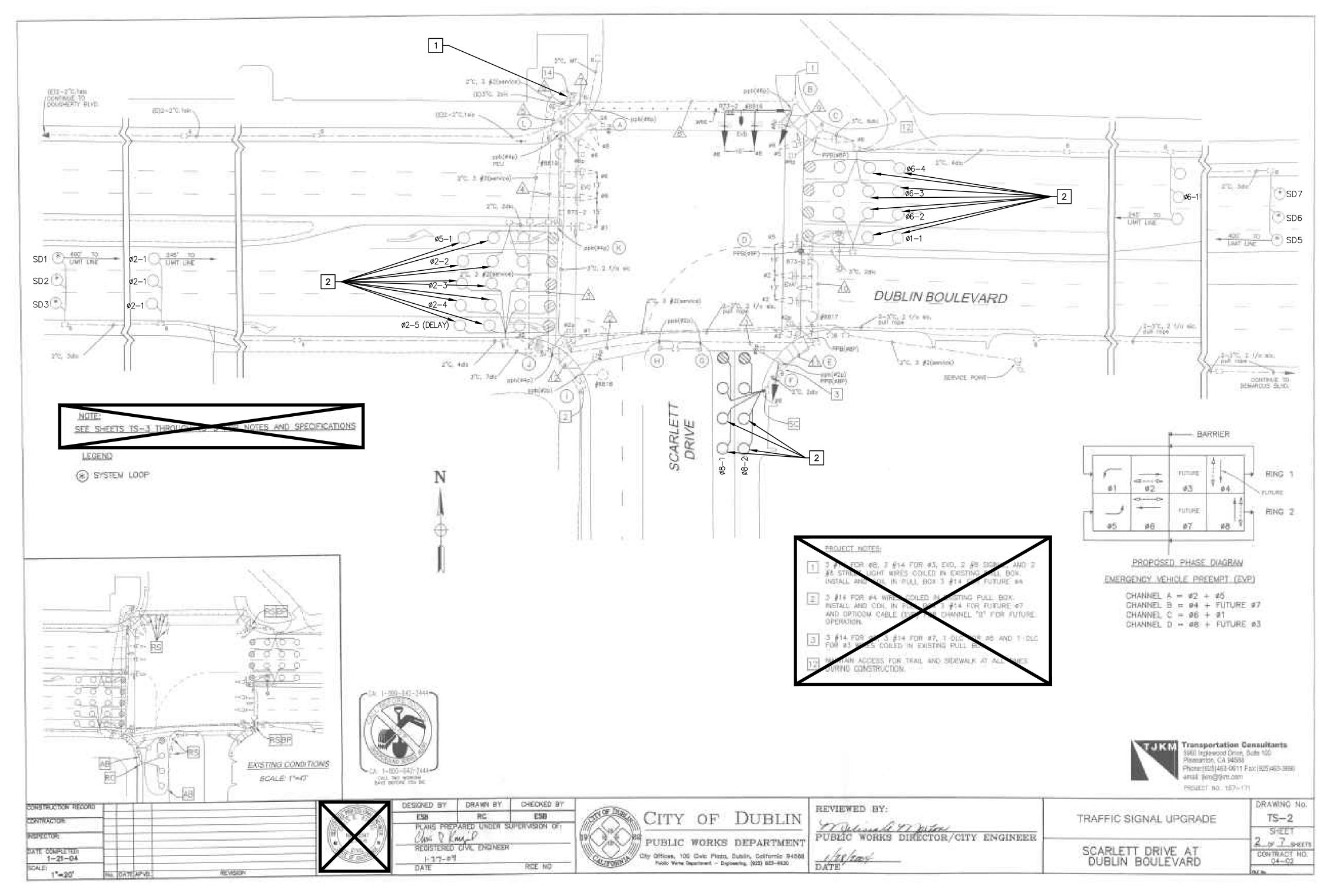


1 REWIRE LOOP DETECTOR LEAD-IN CABLES IN THE CABINET SO THAT EACH DETECTOR IS WIRED TO ITS OWN CHANNEL. PROVIDE DIAGRAM SHOWING HOW CABLES ARE LANDED IN THE CABINET. LABEL EACH WIRE WITH PHASE AND DETECTOR NUMBER.

2 DISCONNECT TWO EXISTING BACK LOOPS AT CLOSEST PULL BOX. ABANDON LOOP WIRE IN PLACE.

DRAWINGS MAY NOT INCLUDE ALL RECENT UPDATES. FIELD VERIFICATION IS RECOMMENDED.

SEE DRAWING GN-01 FOR TRAFFIC SIGNAL GENERAL NOTES



CA: 1-800-227-2600

CA: 1-800-227-2600

CA: 1-800-227-2600

CA: 1-800-227-2600

CAIL TWO WORKING

DAYS BEFORE YOU DIG

AS-BUILT DATED 1-28-2004. SEE NOTE 11 UNDER TRAFFIC SIGNAL GENERAL NOTES ON GN-01

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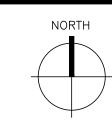
JANUARY 2017

ISSUES/REVISIONS

IO. DATE

DESCRIPTION

DUBLIN
BOULEVARD
FIELD ELEMENTS
CONSTRUCTION
PROJECT



DRAWN BY:

NAP/BJS/JMP DESIGNED BY:

NAP/BJS/JMP BES

PROJECT NUMBER: 097026201

PROJECT NUMBER: 097026201 SCALE: SEE PLAN

TRAFFIC SIGNAL PLAN
DUBLIN BLVD &
SCARLETT DR

TS-11

- DISCONNECT TWO EXISTING BACK LOOPS AT CLOSEST PULL BOX. ABANDON LOOP WIRE IN PLACE.
- REWIRE LOOP DETECTOR LEAD—IN CABLES IN THE CABINET SO THAT EACH DETECTOR IS WIRED TO ITS OWN CHANNEL. PROVIDE DIAGRAM SHOWING HOW CABLES ARE LANDED IN THE CABINET. LABEL EACH WIRE WITH PHASE AND DETECTOR NUMBER.

SEE DRAWING GN-01 FOR TRAFFIC SIGNAL GENERAL NOTES

DRAWINGS MAY NOT INCLUDE ALL RECENT UPDATES. FIELD VERIFICATION IS RECOMMENDED.

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JANUARY 2017

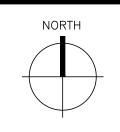
ISSUES/REVISIONS

DATE

DUBLIN BOULEVARD FIELD ELEMENTS CONSTRUCTION

PROJECT

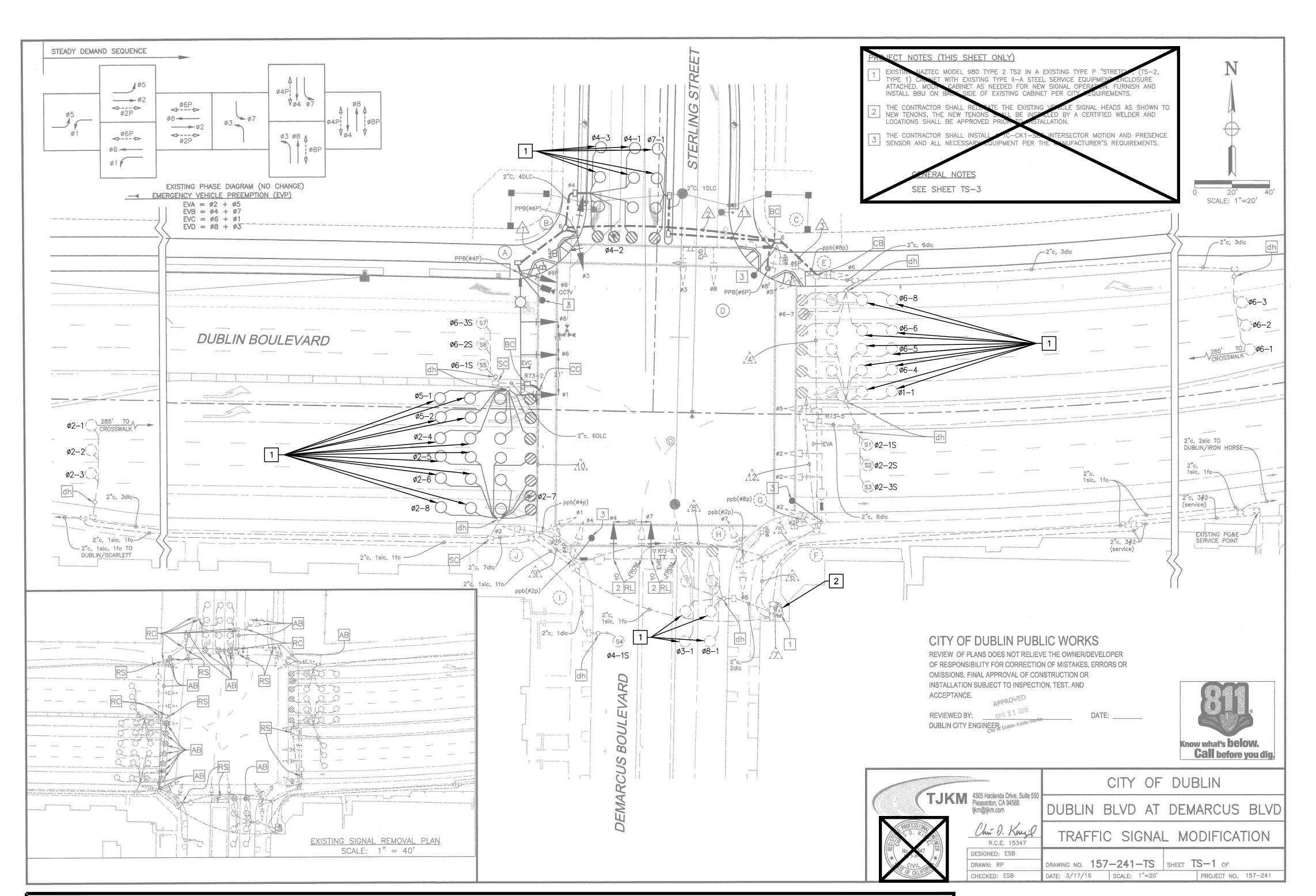
DESCRIPTION



PROJECT NUMBER: 097026201

TRAFFIC SIGNAL PLAN DUBLIN BLVD & **DEMARCUS BLVD**

TS-12





AS-BUILT DATED 3-17-2016. SEE NOTE 11 UNDER TRAFFIC SIGNAL GENERAL NOTES ON GN-01.

1 DISCONNECT TWO EXISTING BACK LOOPS AT CLOSEST PULL BOX. ABANDON LOOP WIRE IN PLACE.

REWIRE LOOP DETECTOR LEAD—IN CABLES IN THE CABINET SO THAT EACH DETECTOR IS WIRED TO ITS OWN CHANNEL. PROVIDE DIAGRAM SHOWING HOW CABLES ARE LANDED IN THE CABINET. LABEL EACH WIRE WITH PHASE AND DETECTOR NUMBER.

DRAWINGS MAY NOT INCLUDE ALL RECENT UPDATES. FIELD VERIFICATION IS RECOMMENDED.

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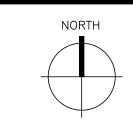
ISSUES/REVISIONS

DATE

DUBLIN BOULEVARD

DESCRIPTION

FIELD ELEMENTS
CONSTRUCTION
PROJECT



DRAWN BY:
NAP/BJS/JMP DESIGNED BY:
NAP/BJS/JMP BES

PROJECT NUMBER: 097026201

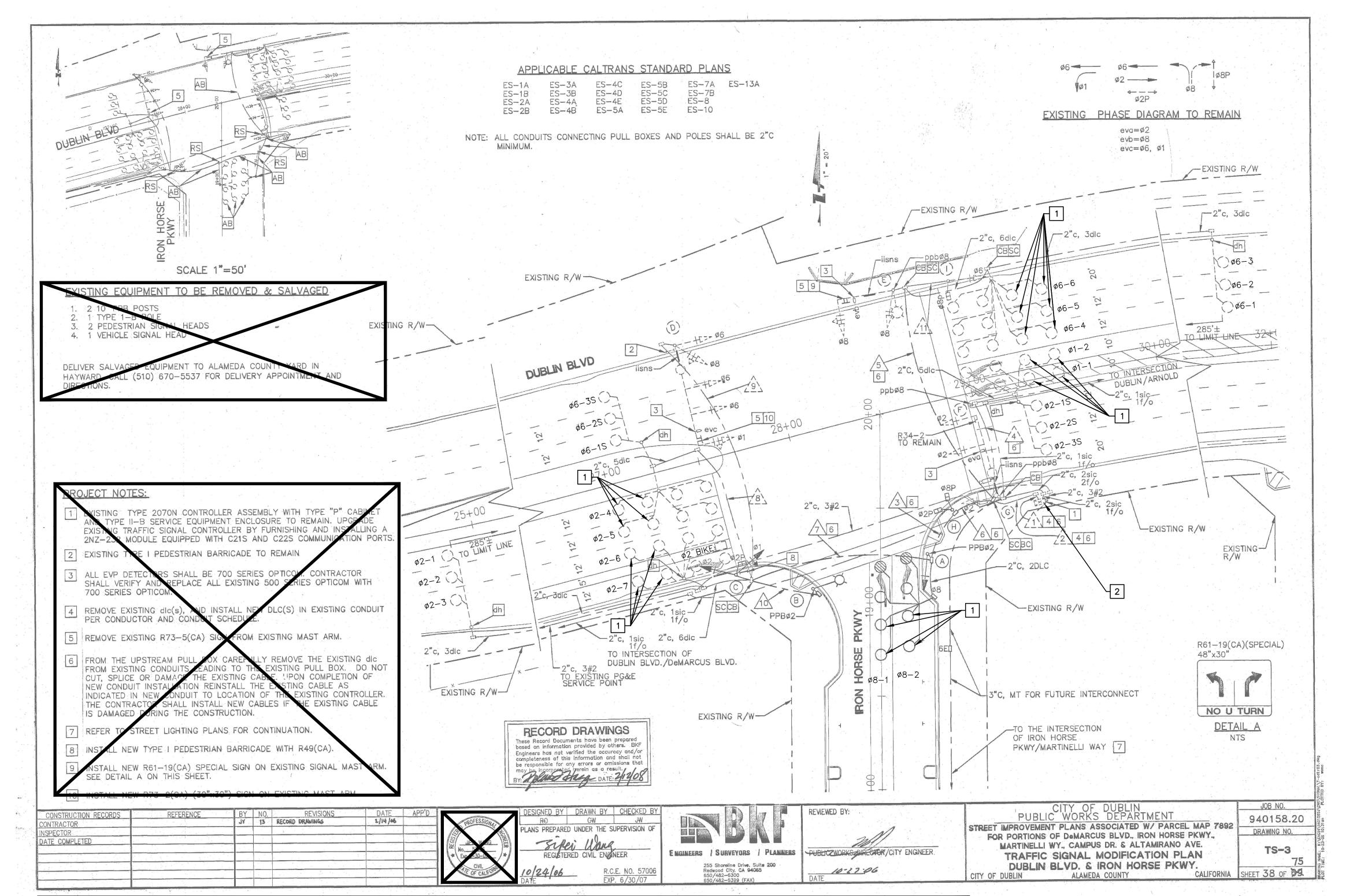
SCALE: SEE PLAN

TRAFFIC SIGNAL PLAN DUBLIN BLVD & IRON HORSE PKWY

TS-13

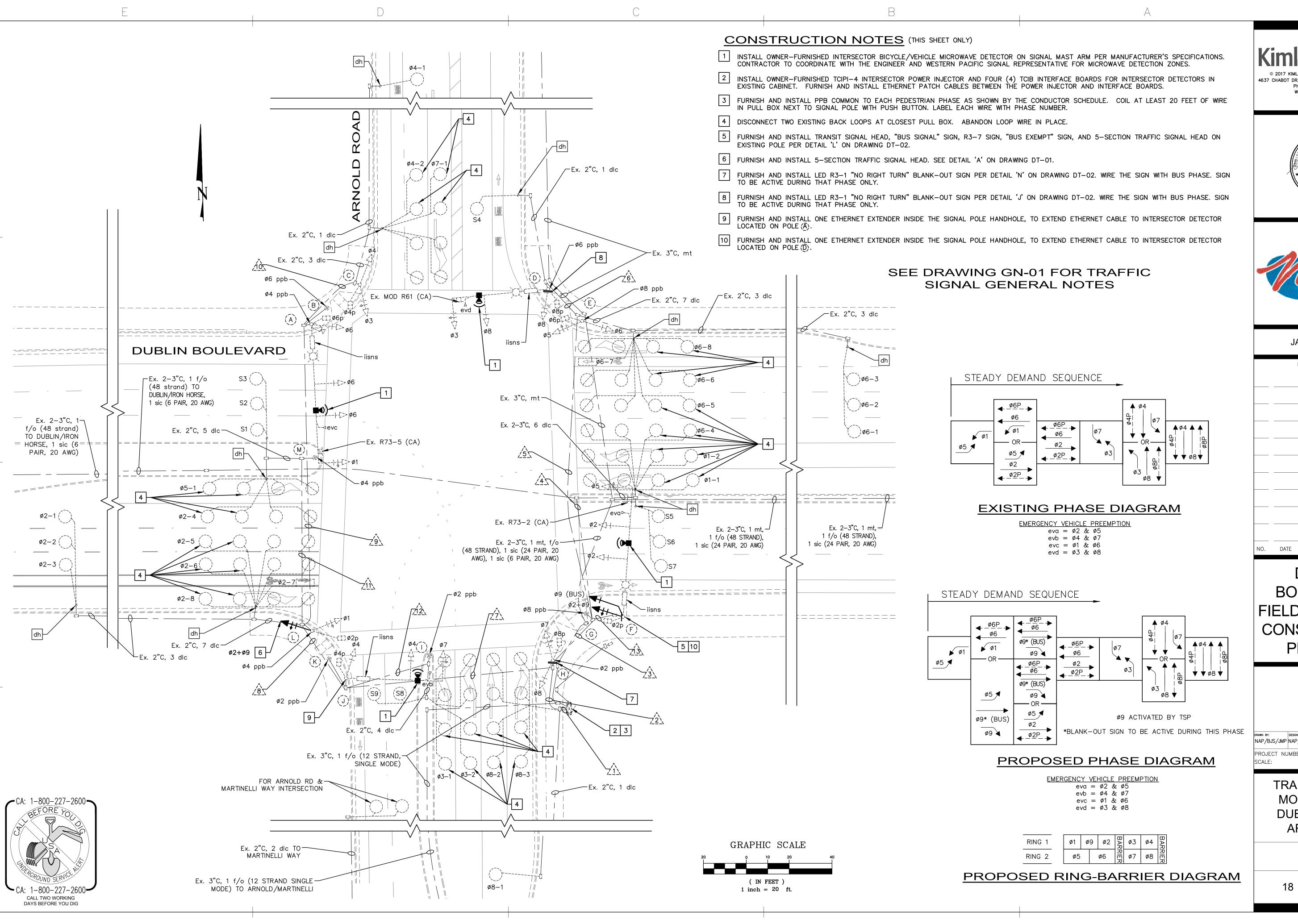
7 OF 2

SEE DRAWING GN-01 FOR TRAFFIC SIGNAL GENERAL NOTES





AS-BUILT DATED 2-12-2008. SEE NOTE 11 UNDER TRAFFIC SIGNAL GENERAL NOTES ON GN-01.







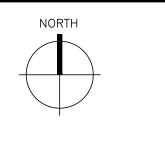


JANUARY 2017

ISSUES/REVISIONS

DUBLIN BOULEVARD FIELD ELEMENTS CONSTRUCTION PROJECT

DESCRIPTION



DRAWN BY:

NAP/BJS/JMP

NAP/BJS/JMP

BES

PROJECT NUMBER: 097026201

SCALE:

SEE PLAN

TRAFFIC SIGNAL MODIFICATION DUBLIN BLVD & ARNOLD RD

TS-14

| | CONDUCTOR SCHEDULE NUMBER OF CONDUCTORS | | | | | | | | | | | | | |
|---------------------|---|------------------|------------------|------------------|------------------|---------------|---------------|-------------------|---------------|----------------|----------|--------------|------------------|------------------|
| AWG | | | | | <u> </u> | NUMB | | F CO NUM | | TORS | <u> </u> | | | |
| OR CABLE | | <u>^</u> | ^ <u>/2</u> \ | ^ _3 <u>\</u> | ^ _4 <u>\</u> | ^ _5_ | <u> </u> | <u></u> | \ _8_ | _9\ _9\ | <u> </u> | <u> </u> | ^ <u>/12\</u> | ^ <u>/13\</u> |
| | ø1 | 3 | 3 | | | | | 3 | 3 | 3 | | | | |
| | ø2 | 6 | 6 | 3 | | | | 3 | 3 | | | | | 3 |
| | ø3 ø4 | 6 3 | 6 3 | 3 | | 3 | 3 | 3 | 3 | 3 | 3 | | | |
| | ø5 | 3 | 3 | 3 | | 3 | | <u> </u> | | <u> </u> | <u> </u> | | | 3 |
| | ø6 | 6 | 6 | 3 | | 3 | | 3 | 3 | 3 | | | | |
| | ø7 ø8 | 6 3 | 6 3 | | | 3 | 3 | 3 | | | | | | |
| | ø9 | 6 | 6 | 4 | | | | 2 | 2 | | | | | 4 |
| | Ø2P | 4 | 4 | 2 | | | | 2 | 2 | | | | | 2 |
| | ø4P ø6P | 2 4 | 2 4 | | | 2 | | 2 | 2 | 2 | 2 | | | |
| NO. 14 | ø8P | 2 | 2 | | | 2 | 2 | | | | | | | |
| 110. 14 | ø2PPB ø4PPB | 2 | 2 | | | | | 2 | 2 | 1 | | 1 | 1 | |
| | ø6PPB | 2 | 2 | 1 | | 1 | 1 | 1 | 1 | 1 | | ' | | |
| - | Ø8PPB | 2 | 2 | 2 | 1 | 1 | | | | | | | | |
| 1 | ø2 PPB COMMON ø4 PPB COMMON | <u>(2)</u> の | ② ② | | | | | <u>(1)</u> (2) | <u> </u> | (1) | | (1) | | |
| 1 | Ø6 PPB COMMON | ② ② ② ② | <u>2</u> | 1 | | 1 | 1 | 1 | ② ① | 0 | | | | |
| 1 | Ø8 PPB COMMON | | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | |
| | PPB COMMON BLANK-OUT SIGN | 2 | 2 | 2 | <u> </u> | 2 | 2 | 1 | 1 | 1 | | 1 | 1 | |
| 1 | SPARES | 6 | 6 | 3 | | 3 | 3 | 3 | 3 | 3 | 3 | | | 3 |
| | TOTAL NO. 14 | 16/63 | 1 6/63 | 9 /22 | 3 | 4)/22 | <u>(3</u> /13 | 6 /32 | (5)/27 | (2) /24 | 11 | 2 / 4 | 2 | 4 /11 |
| | | | | | | | | | | | | | | |
| NO. 10 | IISNS | 4 | 4 | 2 | | 2 | 2 | 2 | 2 | 2 | | | | 2 |
| | LIGHTING | 4 | 4 | 0 | | 0 | 0 | 0 | 0 | 0 | | | | |
| 100 | SIGNAL NEUTRAL | 4 2 | 4 2 | 2 1 | | 2 1 | 1 | 2 | 1 | 2 1 | 1 | | | 1 |
| NO. 8 | | | | | | | | | | | | | | |
| | TOTAL NO. 8 | 6 | 6 | 3 | | 3 | 3 | 3 | 3 | 3 | 1 | | | 3 |
| | ø1 | 2 | 2 | 2 | 2 | | | | | | | | | |
| | ø2 | 8 | 8 | | | | | 8 | 8 | | | 1 | | \vdash |
| | ø3 | 2 | 2 | | | | | 2 | | | | | 2 | |
| | ø4 ø5 | 2 | 2 | | | | | 2 | 2 | 2 | 2 | 1 | | |
| - | ø6 | 8 | 8 | 8 | 1 | 7 | | · | ' | | | , | | |
| DETECTOR LEAD—IN | ø7 ø8 | 3 | 1 | | | | | 1 | 1 | 1 | 1 | | | |
| CABLE | SAMPLER LOOPS (S1, S2, S3) | 3 | 3 | | | | | 3 | 3 | | | 3 | | |
| | SAMPLER LOOPS (S4) | 1 | 1 | 1 | | 1 | 1 | | | | | | | |
| 1 | SAMPLER LOOPS (S5, S6, S7) SAMPLER LOOPS (S8, S9) | 3 | 3 | 3 | 3 | | | 0 | | | | | | |
| | SAIVIFLER LUUFS (50, 59) | 2 | 2 | | | | | 2 | | | | | 2 | |
| | TOTAL DLC | 36 | 33 | 14 | 6 | 8 | 1 | 19 | 15 | 3 | 3 | 5 | 4 | |
| | EVA | 1 | 1 | 1 | | | | | | | | | | 1 |
| EMERGENCY | EVB | 1 | 1 | - | | | | 1 | | | | | | |
| VEHICLE | EVC EVD | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | | | | |
| PREEMPTION | | | | | | | | | | | | | | |
| | TOTAL EVP CABLE | 4 | 4 | 2 | | 1 | 1 | 2 | 1 | 1 | | | | 1 |
| | ø2 & ø5 | (1) | (1) | 1) | | | | | | | | | | 1 |
| MICROWAVE | ø4 & ø7 | ① | 1 | | | | | 1 | | | | | | |
| DETECTION CABLE | ø3 & ø8 ø1 & ø6 | 1 | 1 | 1 | | 1 | 0 | (1) | (1) | (1) | (1) | | | |
| (CAT 5E) | | | | | | | | | | | | | | |
| | TOTAL CAT 5E CABLE | 4 | 4 | 2 | | ① | ① | 2 | 1 | 1 | 1 | | | 1 |
| COHU CABLE | POWER/COAX/DATA | 1 | 1 | | | | | 1 | 1 | 1 | | | | |
| | CONDUIT FILL (%) | 19% | 18% | 27% | 13% | 19% | 23% | 25% | 27% | 16% | 16% | 13% | 9% | 21% |
| | CONDUIT SIZE (IN) | 2-4" | 2-4" | 3" | 2" | 3" | 2" | 3 1 " | 3" | 3" | 2" | 2" | 2" | 2" |
| ALL CONDUITS | , , | | | _ | | _ | l | | | | | | | |

| - | ٩LL | CONDUITS, | CABLES, | AND | CONDUCTORS | ARE | EXISTING | UNLESS | OTHERWISE | NOTED. |
|---|-----|-----------|---------|-----|------------|-----|----------|--------|-----------|--------|
| | | | | | | | | | | |

= NEW CABLE OR CONDUCTOR

 $\angle X = EXISTING CONDUIT RUN$



| | EQUIPMENT SCHEDULE | | | | | | | | | | | | | |
|------------|-----------------------------------|--------------------|-----------------------|---------------|-------------------------|------------------|------------|--------------|---|------------|--------------|--------------|---|--|
| | | STANDARD | | | VEHICLE SIGNAL MOUNTING | | PEDESTRIAN | SIGNAL | F | PUSH BUTTO | N | WONG 1 505ND | | |
| LOCATION | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | LED LUMINAIRE | MAST ARM | POLE | MOUNT | POLE QUAD | Ø | ARROW | POLE QUAD | IISNS LEGEND | SPECIAL NOTES | |
| (A) | 61-5-80 | 65' | 15' | 104 | 3 MAS | SV-1-T | SP-1-T | W S E | _ | _ | - | Arnold Rd | INSTALL INTERSECTOR DETECTOR | |
| (B) | PEDESTRIAN PUSH BUTTON POST | - | - | - | - | - | _ | - | 4 | • | W Os E | - | | |
| (©) | 1-B | - | - | _ | - | TV-2-T | SP-1-T | W S E | 6 | | W O E | - | | |
| (D) | 26-4-70 | 45' | 15' | 104 | 2 MAS | SV-1-T SV-1 | SP-1-T | W OF E | 6 | • | W O E | Dublin Blvd | FURNISH AND INSTALL BLANK OUT SIGN INSTALL INTERSECTOR DETECTOR | |
| (E) | 1-B | - | - | _ | - | TV-2-T | SP-1-T | W S E | 8 | - | N W■O E | - | | |
| (F) | 61-5-80 | 60' | 15' | 104 | 3 MAS | SV-1-T SV-1-T | SP-1-T | W N E | _ | _ | _ | Arnold Rd | INSTALL INTERSECTOR DETECTOR | |
| (G) | PEDESTRIAN PUSH BUTTON POST | _ | - | - | - | - | _ | _ | 8 | - | N W■O E | - | | |
| (H) | 1-B | - | - | - | - | TV-2-T SV-1 N | SP-1-T | W S E | 2 | - | W S E | - | FURNISH AND INSTALL BLANK OUT SIGN | |
| (1) | PEDESTRIAN PUSH BUTTON POST | - | _ | - | - | - | _ | _ | 2 | * | W S E | - | | |
| <u>(J)</u> | 24-4-70 | 45' | _ | - | 2 MAS | SV-1-T | SP-1-T | W ♣ E | - | _ | _ | Dublin Blvd | INSTALL INTERSECTOR DETECTOR | |
| (K) | PEDESTRIAN PUSH BUTTON POST | - | - | - | - | - | _ | - | 2 | - | W S E | - | | |
| (L) | 1-B | - | - | - | - | TV-2-T | SP-1-T | W N E | 4 | - | W Os E | - | | |
| (M) | PEDESTRIAN PUSH BUTTON POST | _ | _ | - | - | _ | _ | _ | 4 | ← | W N E | _ | | |

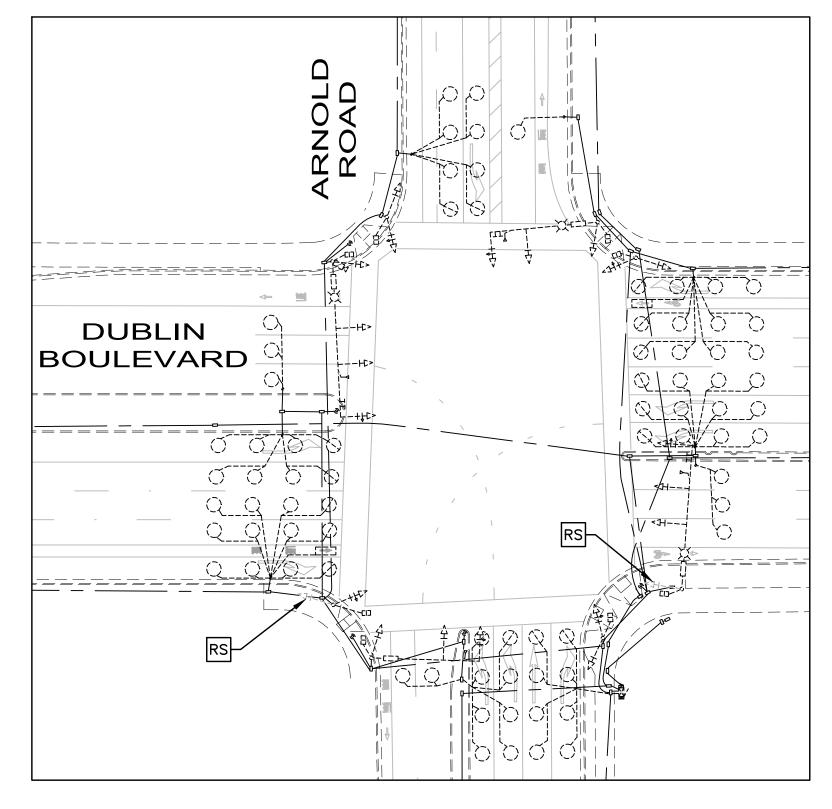
ALL POLES AND EQUIPMENT ARE EXISTING UNLESS OTHERWISE NOTED.

N - NEW EQUIPMENT

CONSIDERED AN EAST-WEST ROADWAY.

OTHER REQUIREMENTS ARE COVERED BY NOTES, LEGEND, SPECIAL PROVISIONS AND CALTRANS STANDARD SPECIFICATIONS. FOR TYPE OF STANDARD, VEHICLE AND PEDESTRIAN MOUNTING, SEE CALTRANS STANDARD PLANS.

FOR THE PURPOSE OF LOCATING NEW AND EXISTING EQUIPMENT ON POLES, DUBLIN BOULEVARD SHALL BE



EXISTING SIGNAL EQUIPMENT

SCALE 1"=40'







JANUARY 2017

ISSUES/REVISIONS

NO. DATE DESCRIPTION

DUBLIN BOULEVARD FIELD ELEMENTS CONSTRUCTION PROJECT

PROJECT NUMBER: 097026201

TRAFFIC SIGNAL SCHEDULES DUBLIN BLVD & ARNOLD RD

TS-15

26

1 DISCONNECT TWO EXISTING BACK LOOPS AT CLOSEST PULL BOX. ABANDON LOOP WIRE IN PLACE.

SEE DRAWING GN-01 FOR TRAFFIC SIGNAL GENERAL NOTES

DRAWINGS MAY NOT INCLUDE ALL RECENT UPDATES. FIELD VERIFICATION IS RECOMMENDED.

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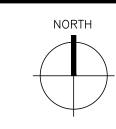
JANUARY 2017

ISSUES/REVISIONS

DATE

DESCRIPTION

DUBLIN
BOULEVARD
FIELD ELEMENTS
CONSTRUCTION
PROJECT



DRAWN BY:
NAP/BJS/JMP NAP/BJS/JMP BES

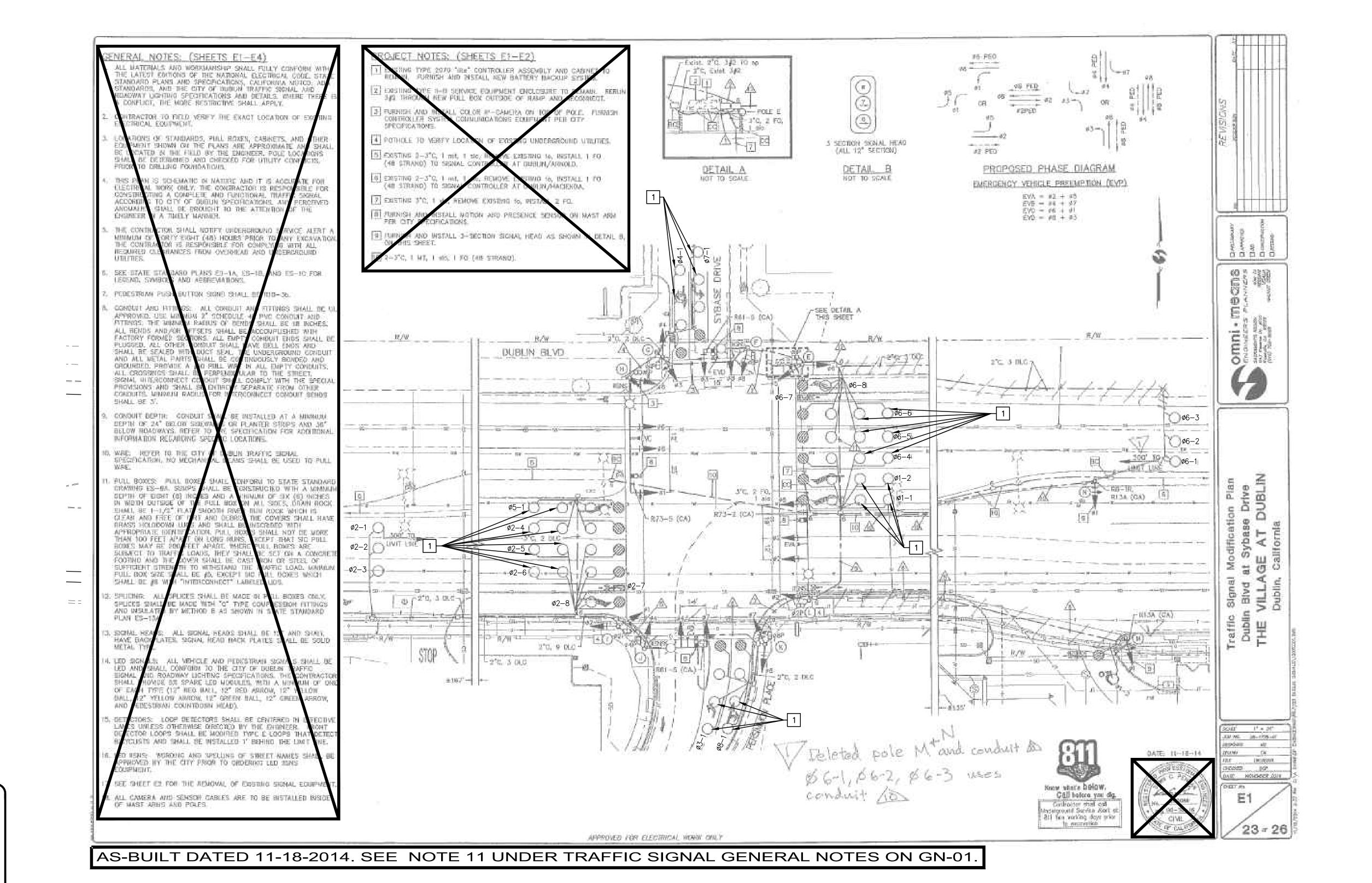
PROJECT NUMBER: 097026201

PROJECT NUMBER: 097026201
SCALE: SEE PLAN

TRAFFIC SIGNAL PLAN
DUBLIN BLVD &
PERSIMMON PL SYBASE DR

TS-16

OF





DAYS BEFORE YOU DIG

DISCONNECT TWO EXISTING BACK LOOPS AT CLOSEST PULL BOX. ABANDON LOOP WIRE IN PLACE.

DISCONNECT EXISTING COUNT LOOPS AT THE CONTROLLER CABINET AND ABANDON IN PLACE.

REWIRE LOOP DETECTOR LEAD—IN CABLES IN THE CABINET SO THAT EACH DETECTOR IS WIRED TO ITS OWN CHANNEL. PROVIDE DIAGRAM SHOWING HOW CABLES ARE LANDED IN THE CABINET. LABEL EACH WIRE WITH PHASE AND DETECTOR NUMBER.

DRAWINGS MAY NOT INCLUDE ALL RECENT UPDATES. FIELD VERIFICATION IS RECOMMENDED.

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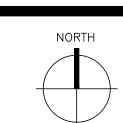
JANUARY 2017

ISSUES/REVISIONS

DATE

DUBLIN BOULEVARD FIELD ELEMENTS CONSTRUCTION

DESCRIPTION



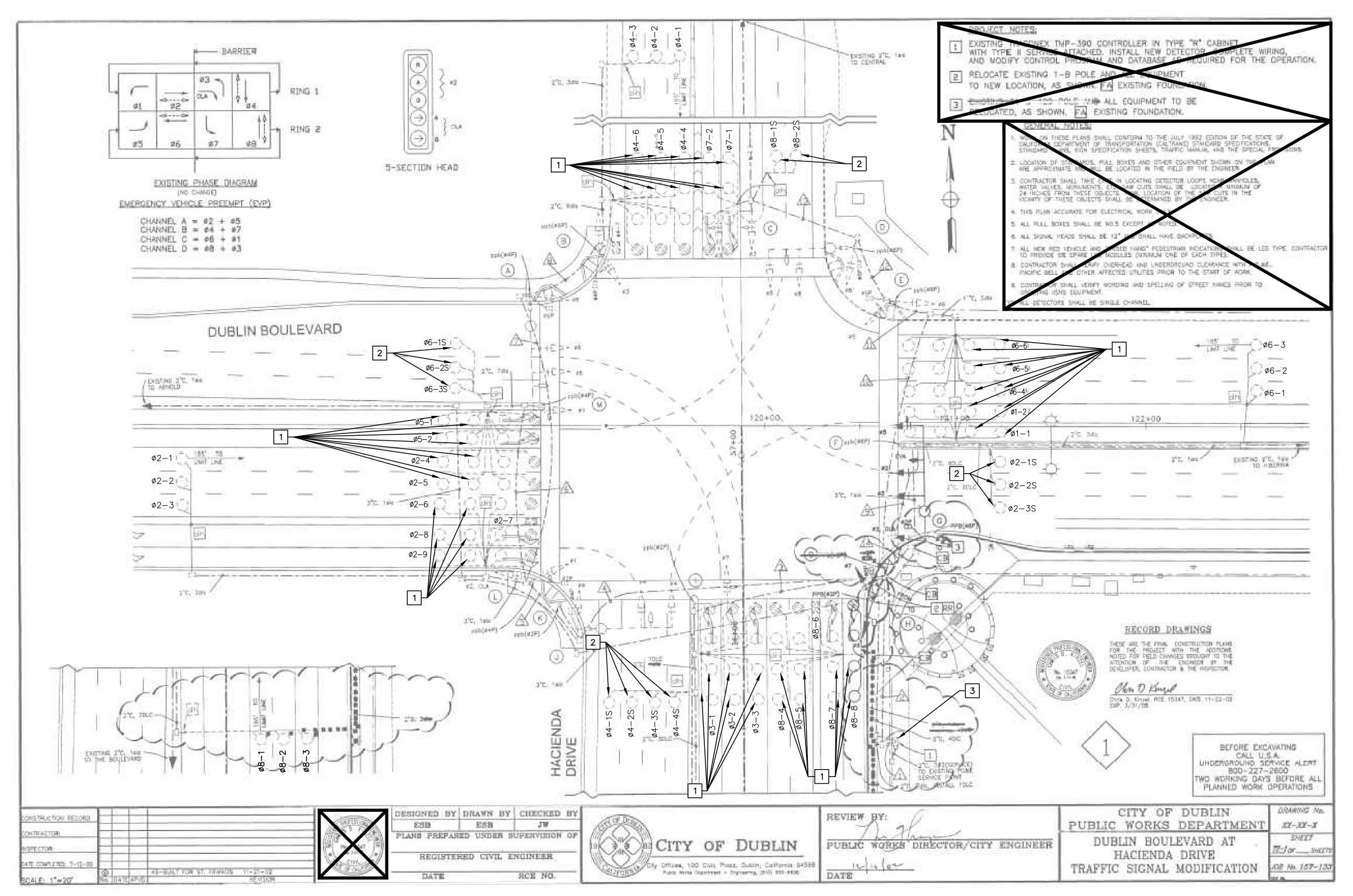
PROJECT

NAP/BJS/JMP NAP/BJS/JMP BES PROJECT NUMBER: 097026201

TRAFFIC SIGNAL PLAN DUBLIN BLVD & HACIENDA DR

TS-17

SEE DRAWING GN-01 FOR TRAFFIC SIGNAL GENERAL NOTES



CA: 1-800-227-2600

CALL TWO WORKING DAYS BEFORE YOU DIG AS-BUILT DATED 12-16-2002. SEE NOTE 11 UNDER TRAFFIC SIGNAL GENERAL NOTES ON GN-01

1 DISCONNECT TWO EXISTING BACK LOOPS AT CLOSEST PULL BOX. ABANDON LOOP WIRE IN PLACE.

SEE DRAWING GN-01 FOR TRAFFIC SIGNAL GENERAL NOTES

DRAWINGS MAY NOT INCLUDE ALL RECENT UPDATES. FIELD VERIFICATION IS RECOMMENDED.

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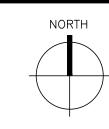
JANUARY 2017

ISSUES/REVISIONS

DATE

DESCRIPTION

DUBLIN BOULEVARD FIELD ELEMENTS CONSTRUCTION **PROJECT**

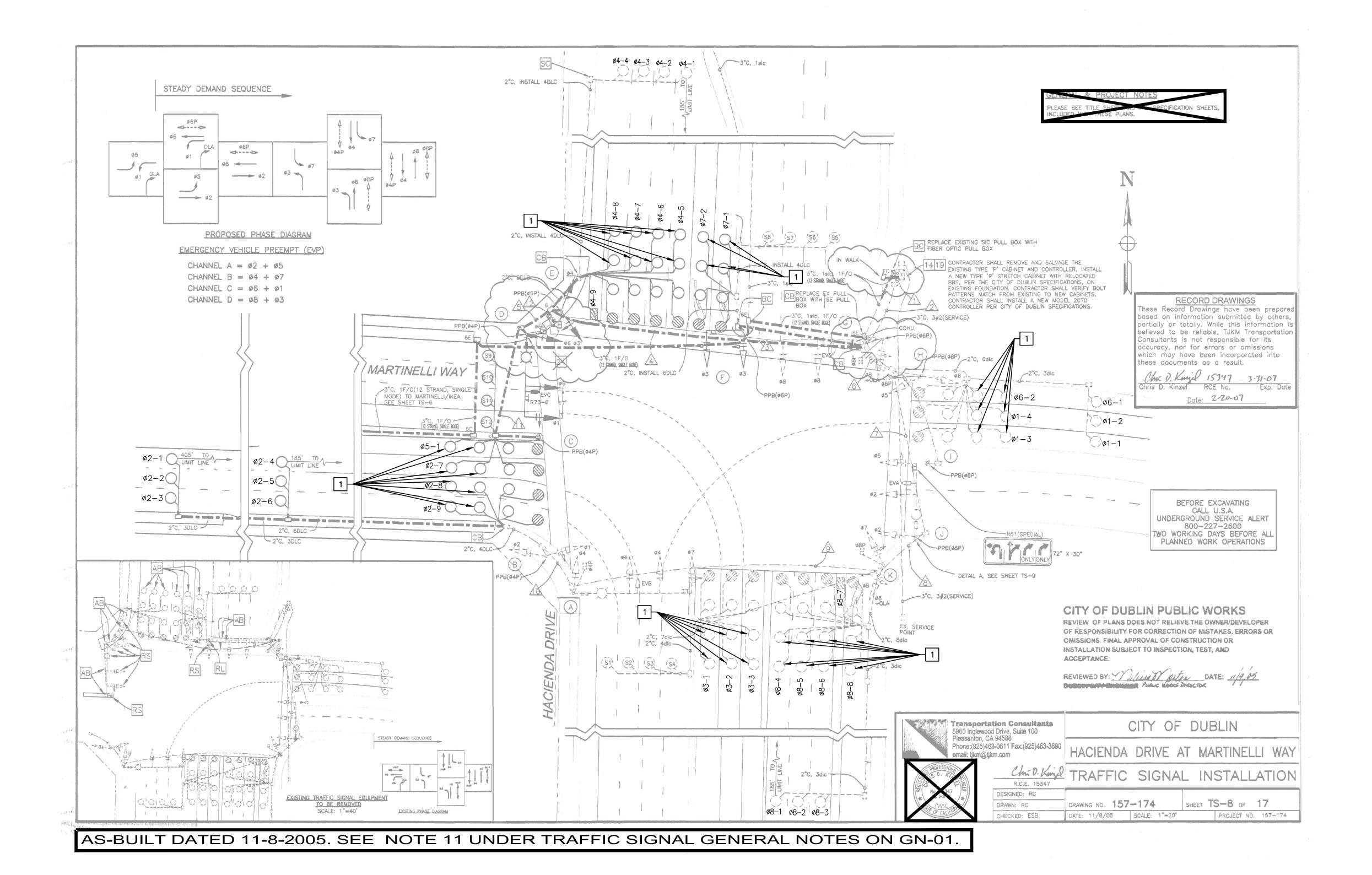


PROJECT NUMBER: 097026201

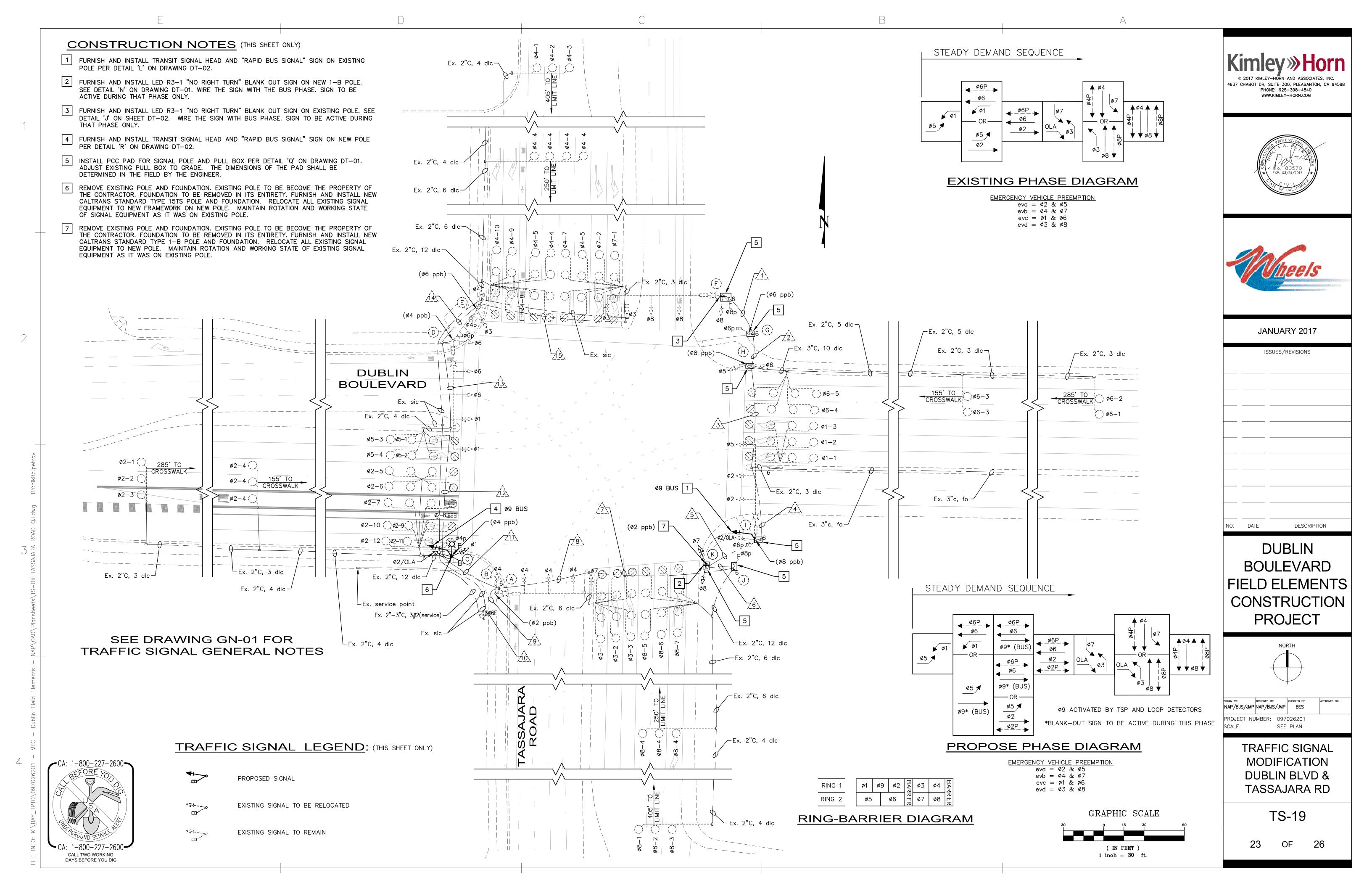
SEE PLAN

TRAFFIC SIGNAL PLAN HACIENDA DR & MARTINELLI WY

TS-18



CA: 1-800-227-2600 CALL TWO WORKING DAYS BEFORE YOU DIG



| | CONDUCTOR SCHEDULE NUMBER OF CONDUCTORS | | | | | | | | | | | | | | | |
|-------------|--|---------------|----------|----------|-----------|----------|--------------|----------|----------|----------|-------------|----------|-------------|-------------|-------------|-------------|
| AWG | | | | | | N | | | | | | RS | | | | |
| OR CABLE | | $\overline{}$ | <u></u> | | \wedge | \wedge | \wedge | RUN A | NON | A | ^ | | \wedge | \wedge | \wedge | |
| CABLE | | <u> </u> | <u> </u> | <u> </u> | <u>4_</u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u>/10\</u> | <u> </u> | <u>/12\</u> | <u>/13\</u> | <u>/14\</u> | <u>/15\</u> |
| | ø1 | | | | | | | | | 6 | 6 | 6 | 3 | 3 | | |
| | ø2 | - | | 7 | | 3 | | 3 | 3 | 6 | 6 | 3 | 7 | - | | |
| | ø3 ø4 | 3 | | 3 | 3 | 3 | | 3 | 3 | 6 6 | 6 | 3 | 3 | 3 | 3 | |
| | ø5 | | 3 | 3 | 3 | 6 | | 6 | 6 | 6 | 6 | | | | | |
| | ø6 | | 3 | 3 | 3 | 3 | 7 | 3 | 3 | 6 | 6 | 3 | 3 | 3 | | |
| | ø7 ø8 | 3 | | 3 | 3 | 3 | 3 | 3 6 | 3 6 | 6 6 | 6 6 | | | | | |
| | ø9* | | | 5 | | 2 | 2 | 2 | 2 | 4 | 4> | 2 | | | | |
| | OLA | | | | | 2 | | 2 | 2 | 4 | 4 | 2 | | | | |
| | ø2P ø4P | | | | | 2 | | 2 | 2 | 4 | 4 | 2 | 2 | 2 | 2 | |
| NO. 14 | Ø6P | | 2 | 2 | 2 | 2 | | 2 | 2 | 4 | 4 | 2 | 2 | 2 | | |
| | ø8P | 2 | | 2 | 2 | 2 | _ | 4 | 4 | 4 | 4 | | | | | |
| | ø2PPB ø4PPB | | | | | | 1 | 2 | 2 | 3 2 | 3 2 | 2 | 1 | 1 | | |
| | ø6PPB | 1 | | 1 | 1 | 1 | | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 |
| | Ø8PPB | 4 | 1 | 1 | 2 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |
| | PPB COMMON IISNS | 2 | 1 | 2 | 2 | 2 | 1 | 3 | 3 | 4 | 4 | 2 | 2 | 2 | 1 | 1 |
| | BLANK-OUT SIGN* | 2 | 2 | 2 | 2 | 2 | 4 | 4> | 4 | 4 | 4> | | | | | |
| | SPARES | 1 | 1 | 4 | 4 | 2 | 3 | 3 | 3 | 4 | 4 | 1 | 3 | 3 | 3 | 3 |
| | TOTAL NO. 14 | 15 | 13 | 28 | 29 | 40 | 6 /11 | 54 | 54 | 98 | 98 | 37 | 24 | 24 | 13 | 5 |
| | | | | | | | | | | | | | | | | |
| | LIGHTING (240V) | 2 | | 2 | 2 | 2 | | 2 | 2 | 4 | 4 | 2 | 2 | 2 | | |
| NO. 8 | SIGNAL NEUTRAL | 1 | 1 | 2 | 2 | 2 | 1 | 3 | 3 | 4 | 4 | 1 | 1 | 1 | 1 | 1 |
| | TOTAL NO. 8 | 3 | 1 | 4 | 4 | 4 | 1 | 1 | 5 | 5 | 8 | 8 | 3 | 3 | 1 | 1 |
| | | | | | | | | | | | | | | | | |
| | ø1 | | | | 3 | 3 | | 3 | 3 | 3 | 3 | | | | | |
| | ø2 | | | | | | | | | 12 | 12 | 12 | | | | |
| | ø3 | | | | | | | | 6 | 6 | 6 | 10 | 10 | 10 | 10 | 1 |
| DETECTOR | ø4 ø5 | | | | | | | | | 12 4 | 12 4 | 12 4 | 12 4 | 12 | 12 | 1 |
| LEAD-IN | ø6 | 10 | | 10 | 10 | 10 | | 10 | 10 | 10 | 10 | , | • | | | |
| CABLE | ø7 | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| _ | ø8 ø9 | | | | | | | 12 | 12 | 12 | 12 | | | | | |
| | | | | | | | | | | | | | | | | |
| | TOTAL DLC | 10 | | 10 | 13 | 13 | | 25 | 31 | 60 | 60 | 29 | 17 | 13 | 13 | 2 |
| | | | | | | | | | | | | | | | | |
| | EVA | | | | | 1 | | 1 | 1 | 1 | 1 | | | | | |
| | EVB | | | | | | | | | 1 | 1 | 4 | 4 | 4 | | |
| CABLE | EVC EVD | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | | | | • | | • | | | | | | | | | | |
| | TOTAL CABLES | 1 | | 1 | 1 | 2 | | 2 | 2 | 4 | 4 | 1 | 1 | 1 | | |
| | TOTAL GABLES | | | | | | | | | , T | , T | | | | | |
| | CONDUIT FILL (%) | 4~- | 462 | 10~ | 04.2- | 05~ | 4 4 4 | 70~ | | 07~ | 07~ | 77~ | 07~ | 00~ | 400 | -~ |
| | CONDUIT FILL (%) | 17% | 12% | 19% | 21% | 25% | 14% | 39% | 44% | 25% | 23% | 37% | 23% | 20% | 16% | 5% |
| | CONDUIT SIZE (IN) | 3" | 2" | 3" | 3" | 3" | 2" | 3" | 3" | 2-4" | 2-4" | 3" | 3" | 3" | 3" | 3" |

*CONTRACTOR TO VERIFY PRESENCE OF EXISTING SPARE CONDUCTORS. CONTRACTOR SHALL USE EXISTING SPARE CONDUCTORS FOR BUS SIGNAL PHASE AND BLANK-OUT SIGN.

ALL CONDUITS, CABLES, AND CONDUCTORS ARE EXISTING UNLESS OTHERWISE NOTED.

- = NEW CABLE OR CONDUCTOR
- $^{\wedge}_{\angle X \Delta}$ = EXISTING CONDUIT RUN

ALL EXISTING CONDUITS TO BE USED OR REUSED MUST BE CLEANED WITH A MANDREL OR CYLINDRICAL WIRE BRUSH AND BLOWN OUT WITH COMPRESSED AIR. NO CONDUCTORS MUST BE PULLED INTO EXISTING CONDUIT UNTIL THE EXISTING CONDUIT IS CLEANED OUT.

| EQUIPMENT SCHEDULE | | | | | | | | | | | | | |
|--------------------|-----------|--------------------|-----------------------|---------------------|--------------|------------------|--------------|--------------|--------|------------|--------------|--------------|------------------------------------|
| LOGATION | | STANDARD | | | VEHICLE SIGN | AL MOUNTING | PEDESTRIAN : | SIGNAL | | PUSH BUTTO | N | HONG LEGEND | CDECIAL NOTES |
| LOCATION - | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | LUMINAIRE NUMBER | MAST ARM | POLE | MOUNT | POLE QUAD | ø | ARROW | POLE QUAD | IISNS LEGEND | SPECIAL NOTES |
| (A) | SPECIAL | 85' | 15' | 133 | 4 MAS | SV-1-T | _ | _ | _ | _ | - | Dublin Blvd | |
| (B) | PPB | - | _ | - | - | _ | _ | _ | 2 | - | W S E | _ | |
| © | N 15TS | - | N 15' | N 133 | _ | SV-2-T | N SP-2-T | N R W ♣ E | 4 | - | W Os E | - | |
| (<u>6</u>) | SPECIAL | 80' | 15' | 133 | 4 MAS | SV-1-T | SP-1-T | W S E | 4 | — | W Os E | Tassajara Rd | |
| (E) | 1-B | - | _ | - | - | TV-2-T | SP-1-T | W S E | 2 | | W O E | ı | |
| (F) | SPECIAL | 85' | 15' | 133 | 4 MAS | SV-1-T SV-1 N | SP-1-T | W OF E | 8 | _ | - | Dublin Blvd | FURNISH AND INSTALL BLANK OUT SIGN |
| (6) | 1-B | - | _ | - | - | _ | SP-1-T | W S E | 6 | • | W OS E | I | |
| (H) | 1-B | I | _ | - | _ | TV-1-T | _ | _ | 8 | - | N W■ S | 1 | |
| (1) | SPECIAL | 70' | 15' | 133 | 3 MAS | SV-1-T | SP-1-T | W OS E | 2 | - | N E E | Tassajara Rd | |
| (1) | 1-B | _ | _ | - | - | SV-1-T | SP-1-T | W S E | _ | - | _ | _ | |
| K | N 1-B | _ | - | - | _ | TV-2-T R SV-1 N | R _ | _ | 8 6 | - | W DE | _ | FURNISH AND INSTALL BLANK OUT SIGN |

ALL POLES AND EQUIPMENT ARE EXISTING UNLESS OTHERWISE NOTED.

- N NEW EQUIPMENT
- R RELOCATED EQUIPMENT

OTHER REQUIREMENTS ARE COVERED BY NOTES, LEGEND, SPECIAL PROVISIONS AND CALTRANS STANDARD SPECIFICATIONS. FOR TYPE OF STANDARD, VEHICLE AND PEDESTRIAN MOUNTING, SEE CALTRANS STANDARD PLANS.

FOR THE PURPOSE OF LOCATING NEW AND EXISTING EQUIPMENT ON POLES, DUBLIN BOULEVARD SHALL BE CONSIDERED AN EAST-WEST ROADWAY.







JANUARY 2017

| | | ISSUES/REVISIONS |
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DUBLIN BOULEVARD FIELD ELEMENTS CONSTRUCTION PROJECT

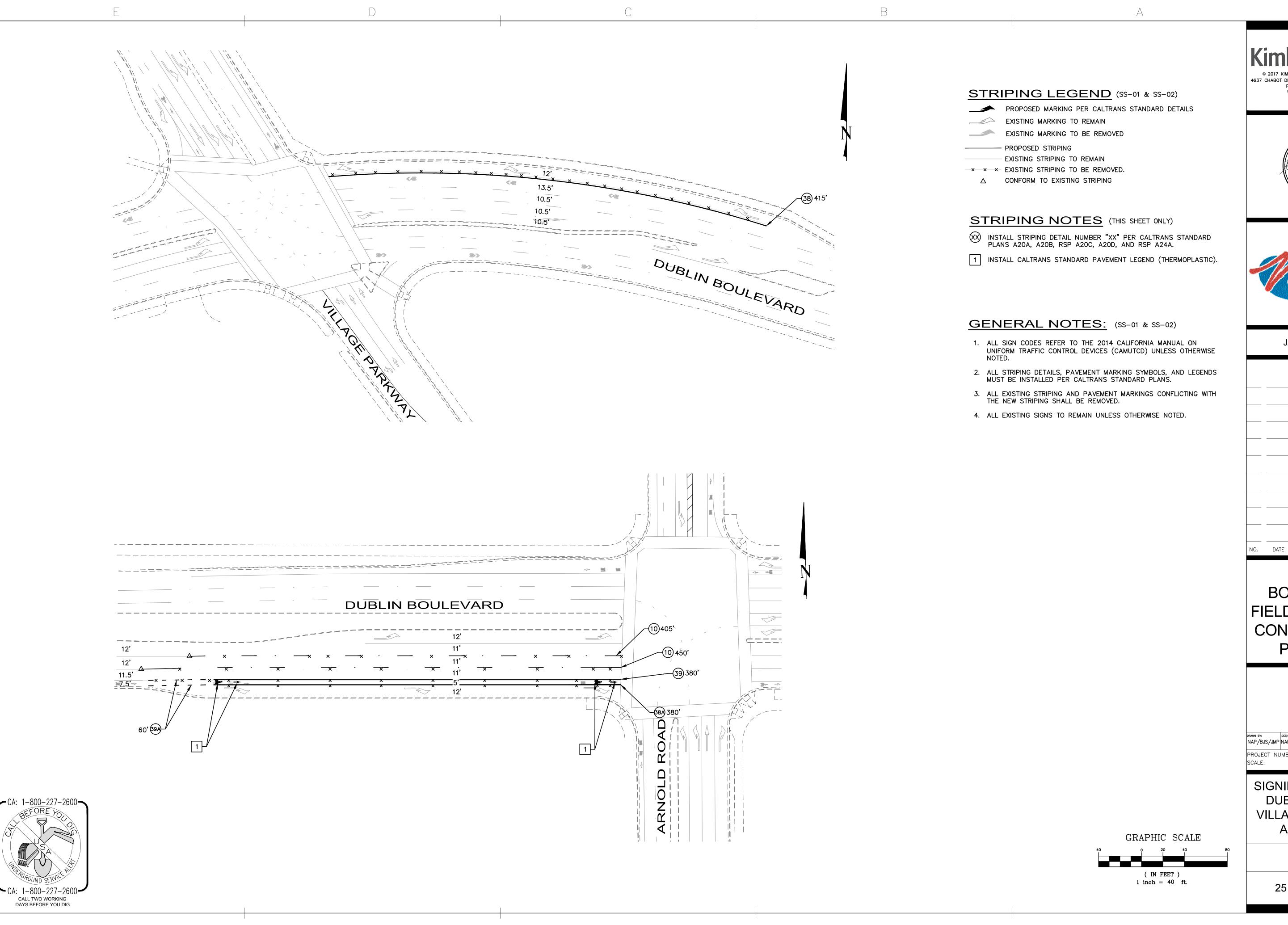
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| DRAWN BY: NAP/BJS/JMP | designed by: NAP/BJS/JMI | CHECKED BY: BES | APPI |
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| PROJECT NU | I IMBER: 09 | 7026201 | |
| SCALE: | SE | E PLAN | |

TRAFFIC SIGNAL SCHEDULES DUBLIN BLVD & TASSAJARA RD

TS-20









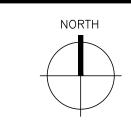


JANUARY 2017

ISSUES/REVISIONS

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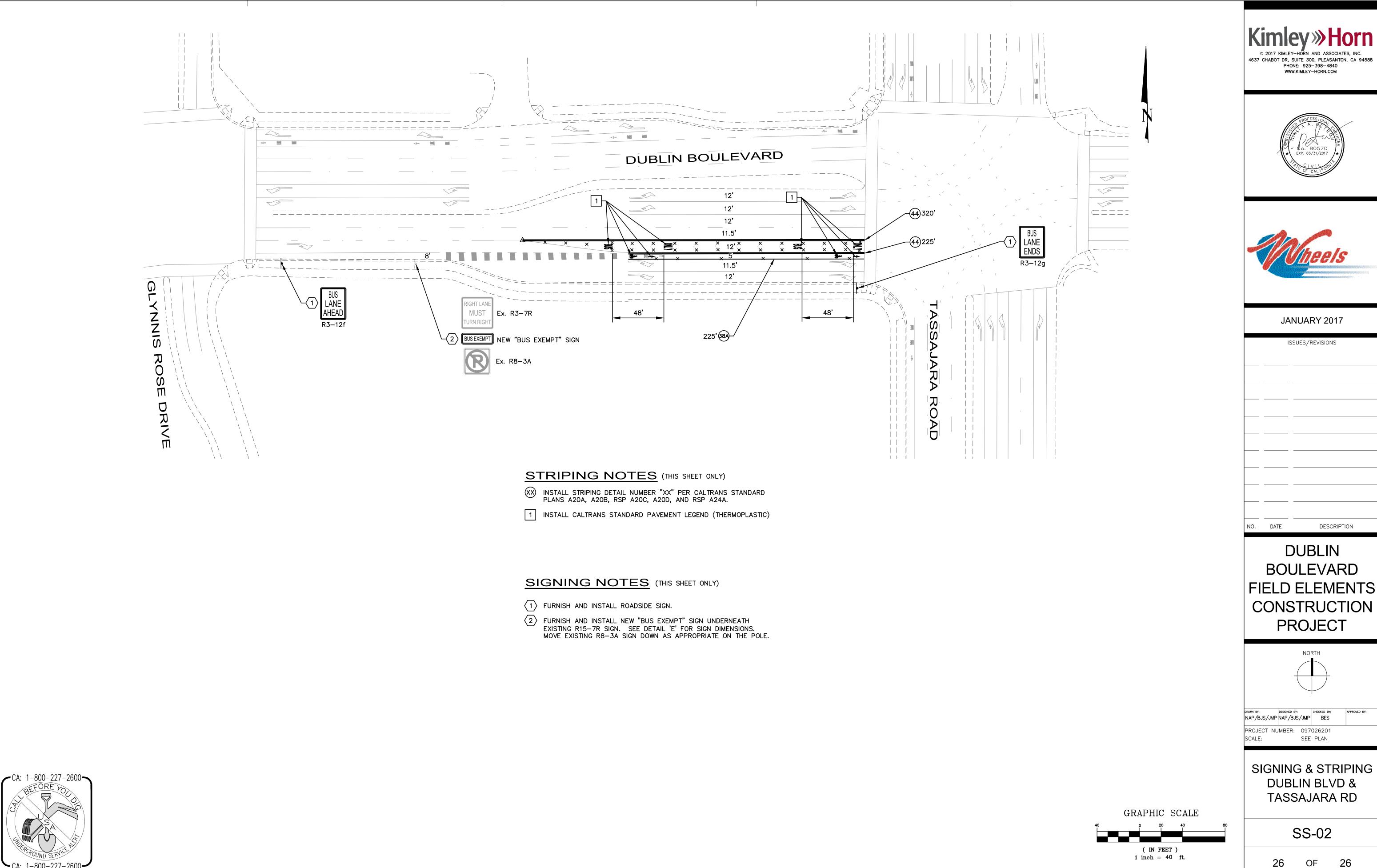
DUBLIN BOULEVARD FIELD ELEMENTS CONSTRUCTION **PROJECT**



PROJECT NUMBER: 097026201

SIGNING & STRIPING **DUBLIN BLVD AT** VILLAGE PKWY AND ARNOLD RD

SS-01



DAYS BEFORE YOU DIG



FIELD ELEMENTS CONSTRUCTION