LEGEND

- 6' x 12' LOOP DETECTOR (TYPE A) PER STATE STANDARD PLAN ES-5B.
- CIRCULAR LOOP DETECTOR (TYPE E) PER STATE STANDARD PLAN ES-5B.
- CT — LOOP TO BE INSTALLED FOR TRAFFIC COUNT PURPOSES.
- INSTALL LOOP DETECTOR (TYPE D) PER STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLAN ES-5B. LOOP SEALANT SHALL BE STATE APPROVED ELASTOMERIC OR HOT MELT RUBBERIZED SEALANT.
- EXISTING LOOP TO BE ABANDONED IN PLACE, UNLESS OTHERWISE NOTED ON PLANS.
- FURNISH AND INSTALL EMERGENCY VEHICLE PREEMPTION (EVP) DETECTOR PLACED ON SIGNAL MAST ARM.
- EVA — DENOTES CHANNEL.
- FURNISH AND INSTALL NEW STREETLIGHT WITH 70W BULB PER CITY STANDARD DRAWING E-1. UNLESS OTHERWISE NOTED.
- 28+00 — DENOTES STATIONING.
- EXISTING STREETLIGHT TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
- REVISION CLOUD DENOTES WORK TO BE DONE PER SEPARATE PLAN 4-E-1306A & 1306B.
- ITS — PROPOSED ITS HDPE CONDUITS
- its — EXISTING ITS HDPE CONDUITS

(ITS = INTELLIGENT TRANSPORTATION SYSTEM.)

STEADY DEMAND SEQUENCE

EXISTING PHASE DIAGRAM

5 PHASE
NO CHANGE

EMERGENCY VEHICLE PREEMPTION

EVA = Ø2
EVB = Ø4 + Ø7
EVC = Ø6
EVD = Ø8 + Ø3

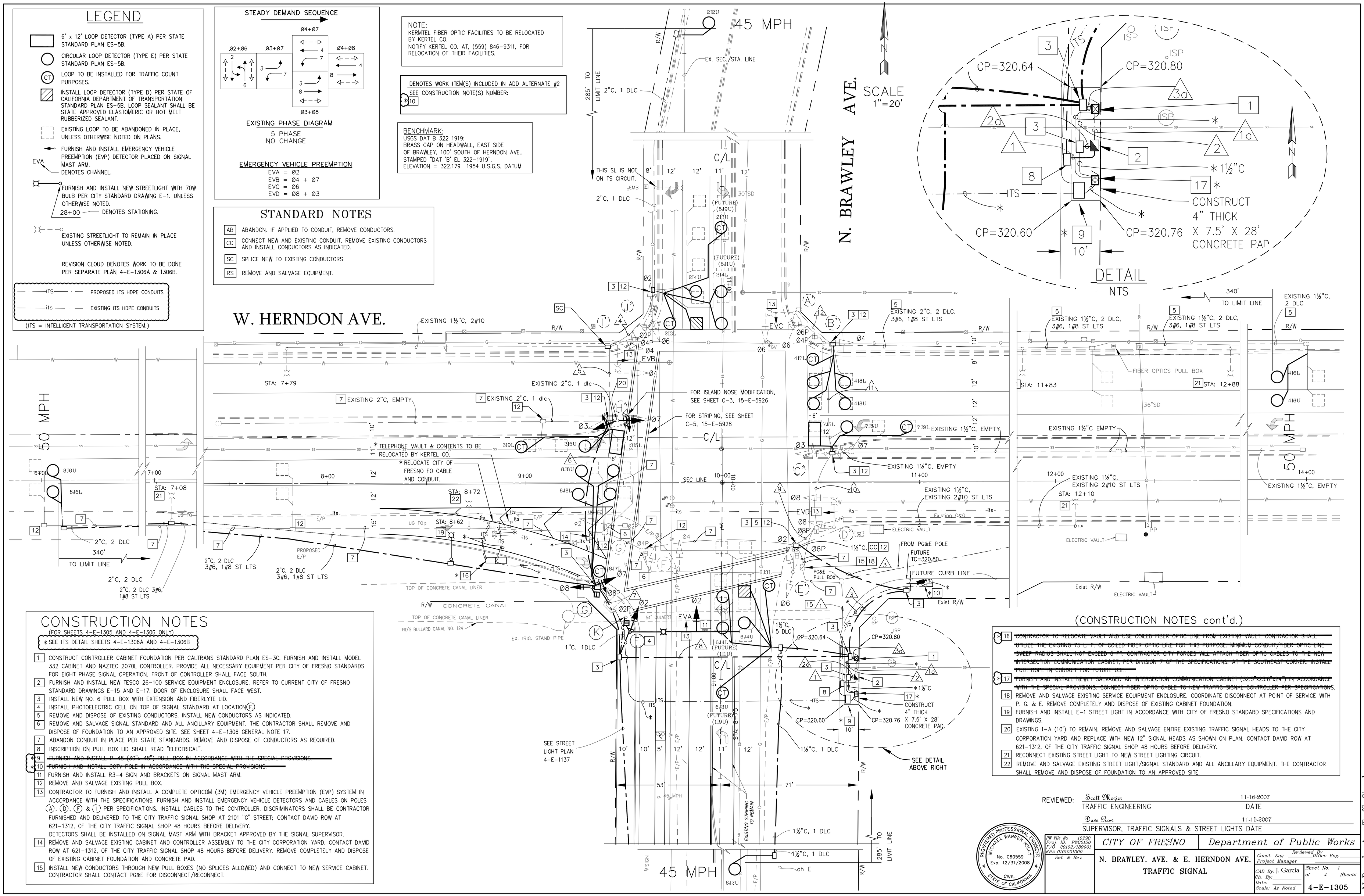
NOTE:
KERMTEL FIBER OPTIC FACILITIES TO BE RELOCATED BY KERTEL CO.
NOTIFY KERTEL CO. AT, (559) 846-9311, FOR RELOCATION OF THEIR FACILITIES.

DENOTES WORK ITEM(S) INCLUDED IN ADD ALTERNATE #2
SEE CONSTRUCTION NOTE(S) NUMBER:
*10

BENCHMARK:
USGS DAT B 322 1919:
BRASS CAP ON HEADWALL, EAST SIDE OF BRAWLEY, 100' SOUTH OF HERNDON AVE., STAMPED "DAT 'B' EL 322-1919".
ELEVATION = 322.179 1954 U.S.G.S. DATUM

STANDARD NOTES

- AB — ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- CC — CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED.
- SC — SPLICE NEW TO EXISTING CONDUCTORS
- RS — REMOVE AND SALVAGE EQUIPMENT.



CONSTRUCTION NOTES

(FOR SHEETS 4-E-1305 AND 4-E-1306 ONLY)

*SEE ITS DETAIL SHEETS 4-E-1306A AND 4-E-1306B

1. CONSTRUCT CONTROLLER CABINET FOUNDATION PER CALTRANS STANDARD PLAN ES-3C. FURNISH AND INSTALL MODEL 332 CABINET AND NAZTEC 2070L CONTROLLER. PROVIDE ALL NECESSARY EQUIPMENT PER CITY OF FRESNO STANDARDS FOR EIGHT PHASE SIGNAL OPERATION. FRONT OF CONTROLLER SHALL FACE SOUTH.
2. FURNISH AND INSTALL NEW TESCO 26-100 SERVICE EQUIPMENT ENCLOSURE. REFER TO CURRENT CITY OF FRESNO STANDARD DRAWINGS E-15 AND E-17. DOOR OF ENCLOSURE SHALL FACE WEST.
3. INSTALL NEW NO. 6 PULL BOX WITH EXTENSION AND FIBERLYTE LID.
4. INSTALL PHOTOELECTRIC CELL ON TOP OF SIGNAL STANDARD AT LOCATION (F).
5. REMOVE AND DISPOSE OF EXISTING CONDUCTORS. INSTALL NEW CONDUCTORS AS INDICATED.
6. REMOVE AND SALVAGE SIGNAL STANDARD AND ALL ANCILLARY EQUIPMENT. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF FOUNDATION TO AN APPROVED SITE. SEE SHEET 4-E-1306 GENERAL NOTE 17.
7. ABANDON CONDUIT IN PLACE PER STATE STANDARDS. REMOVE AND DISPOSE OF CONDUCTORS AS REQUIRED.
8. INSCRIPTION ON PULL BOX LID SHALL READ "ELECTRICAL".
9. ~~*FURNISH AND INSTALL P-48 (30", 48") PULL BOX IN ACCORDANCE WITH THE SPECIAL PROVISIONS.~~
10. ~~*FURNISH AND INSTALL CCTV POLE IN ACCORDANCE WITH THE SPECIAL PROVISIONS.~~
11. FURNISH AND INSTALL R3-4 SIGN AND BRACKETS ON SIGNAL MAST ARM.
12. REMOVE AND SALVAGE EXISTING PULL BOX.
13. CONTRACTOR TO FURNISH AND INSTALL A COMPLETE OPTICOM (3M) EMERGENCY VEHICLE PREEMPTION (EVP) SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS. FURNISH AND INSTALL EMERGENCY VEHICLE DETECTORS AND CABLES ON POLES (A), (D), (F) & (I) PER SPECIFICATIONS. INSTALL CABLES TO THE CONTROLLER. DISCRIMINATORS SHALL BE CONTRACTOR FURNISHED AND DELIVERED TO THE CITY TRAFFIC SIGNAL SHOP AT 2101 "G" STREET; CONTACT DAVID ROW AT 621-1312, OF THE CITY TRAFFIC SIGNAL SHOP 48 HOURS BEFORE DELIVERY.
    DETECTORS SHALL BE INSTALLED ON SIGNAL MAST ARM WITH BRACKET APPROVED BY THE SIGNAL SUPERVISOR.
14. REMOVE AND SALVAGE EXISTING CABINET AND CONTROLLER ASSEMBLY TO THE CITY CORPORATION YARD. CONTACT DAVID ROW AT 621-1312, OF THE CITY TRAFFIC SIGNAL SHOP 48 HOURS BEFORE DELIVERY. REMOVE COMPLETELY AND DISPOSE OF EXISTING CABINET FOUNDATION AND CONCRETE PAD.
15. INSTALL NEW CONDUCTORS THROUGH NEW PULL BOXES (NO SPLICES ALLOWED) AND CONNECT TO NEW SERVICE CABINET. CONTRACTOR SHALL CONTACT PG&E FOR DISCONNECT/RECONNECT.

(CONSTRUCTION NOTES cont'd.)

16. ~~*CONTRACTOR TO RELOCATE VAULT AND USE COILED FIBER OPTIC LINE FROM EXISTING VAULT. CONTRACTOR SHALL UTILIZE THE EXISTING 75 L. F. OF COILED FIBER OPTIC LINE FOR THIS PURPOSE. MINIMUM CONDUIT/FIBER OPTIC LINE SHEEP RADIUS SHALL NOT EXCEED 6 FT. CONTRACTOR CITY FORCES WILL ATTACH FIBER OPTIC CABLES TO THE NEW INTERSECTION COMMUNICATION CABINET, PER DIVISION 7 OF THE SPECIFICATIONS. AT THE SOUTHEAST CORNER, INSTALL PULL ROPE IN CONDUIT FOR FUTURE USE.~~
17. ~~*FURNISH AND INSTALL NEWLY SALVAGED AN INTERSECTION COMMUNICATION CABINET (32.5"x25.0"x24") IN ACCORDANCE WITH THE SPECIAL PROVISIONS. CONNECT FIBER OPTIC CABLE TO NEW TRAFFIC SIGNAL CONTROLLER PER SPECIFICATIONS.~~
18. REMOVE AND SALVAGE EXISTING SERVICE EQUIPMENT ENCLOSURE. COORDINATE DISCONNECT AT POINT OF SERVICE WITH P. G. & E. REMOVE COMPLETELY AND DISPOSE OF EXISTING CABINET FOUNDATION.
19. FURNISH AND INSTALL E-1 STREET LIGHT IN ACCORDANCE WITH CITY OF FRESNO STANDARD SPECIFICATIONS AND DRAWINGS.
20. EXISTING 1-A (10') TO REMAIN. REMOVE AND SALVAGE ENTIRE EXISTING TRAFFIC SIGNAL HEADS TO THE CITY CORPORATION YARD AND REPLACE WITH NEW 12" SIGNAL HEADS AS SHOWN ON PLAN. CONTACT DAVID ROW AT 621-1312, OF THE CITY TRAFFIC SIGNAL SHOP 48 HOURS BEFORE DELIVERY.
21. RECONNECT EXISTING STREET LIGHT TO NEW STREET LIGHTING CIRCUIT.
22. REMOVE AND SALVAGE EXISTING STREET LIGHT/SIGNAL STANDARD AND ALL ANCILLARY EQUIPMENT. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF FOUNDATION TO AN APPROVED SITE.

REVIEWED:
Scott Mozier — 11-16-2007
TRAFFIC ENGINEERING — DATE
Dave Row — 11-15-2007
SUPERVISOR, TRAFFIC SIGNALS & STREET LIGHTS — DATE

REGISTERED PROFESSIONAL ENGINEER — MICHAEL WARREN JOLY — No. C60559 — Exp. 12/31/2008 — CIVIL — STATE OF CALIFORNIA

PW File No. 10290
Proj. ID. PW00150
F/O 20102/189901
KRA 0101001000
Ref. & Rev.

CITY OF FRESNO — Department of Public Works

N. BRAWLEY. AVE. & E. HERNDON AVE.
TRAFFIC SIGNAL

Const. Eng. ____ Reviewed By ____ Office Eng. ____
Project Manager ____

CAD By: J. García
Ch. By: ____
Date: ____
Scale: As Noted

Sheet No. 1 of 4 Sheets

4-E-1305

N. Brawley Ave. Traffic Signal