DEMOLOITION NOTES:
1. REMOVE CONDUCTOR, CONDUIT TO REMAIN.
2. REMOVE AND SALVAGE EQUIPMENT.

PROJECT NOTES:
1. The location and size of major underground facilities and
cables, known and are schematic in nature. Using
information furnished by the respective agencies, the
contractor is responsible for verifying all data with the
respective agencies and taking proper precautions to
protect and avoid the existing facilities and utilities.

2. Contractor shall exercise due caution when over or
around existing facilities (conduits, culverts, utilities,
etc.) Any damage to new or existing facilities resulting
from the contractor's operations shall be repaired as
directed by the engineer at the contractor's expense.

3. The contractor shall notify underground service alert
(USA) and the city public works agency at least 48 hours
(3 working days) prior to beginning any excavation in the
vicinity of underground facilities. USA will mark locations
of utilities.

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

CITY OF OAKLAND
TRANSPORTATION SERVICES DIVISION
250 FRANK H. GUARD ROAD, SUITE 400 • OAKLAND, CA 94621
(510) 238-3350 • FAX (510) 238-3073

E18TH STREET IMPROVEMENT PROJECT

CIVIL ENGINEER

No. DATE BY REFERENCE

EXISTING CONDITION
REMOVAL AND
SALVAGE
AT
E 18TH ST/3RD AVE

PROJECT NO.
P233285

SCALE: 1"=20'
HOscale: 1' = 20'
DATE: 05/26/2016

HALF SIZE
DEMOlITION NOTES:
- REMOVE CONDUCTOR, CONDUIT TO REMAIN.
- REMOVE AND SALVAGE EQUIPMENT.

PROJECT NOTES:
1. THE LOCATION AND SIZE OF MAJOR UNDERGROUND FACILITIES AND UTILITIES SHOWN HEREIN ARE ESTIMATES IN NATURE. USING INFORMATION FURNISHED BY THE RESPECTIVE AGENCIES, THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION ALL DATA WITH THE RESPECTIVE AGENCIES AND TO PROVIDE PROPER PRECAUTIONS TO PROTECT AND AVOID THE EXISTING FACILITIES AND UTILITIES.
2. CONTRACTOR SHALL EXERCISE DUE CAUTION WHEN WORKING AROUND EXISTING FACILITIES (CONDUITS, CONDUIT, UTILITIES, ETC.) AND AVOID DAMAGING OR EXISTING FACILITIES (CONDUITS, CONDUIT, UTILITIES, ETC.) AND AVOID DAMAGING OR WORKING TO THE EXISTING FACILITIES AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USCA) AND THE CITY PUBLIC WORKS AGENCY AT LEAST 48 HOURS (2 WORKING DAYS) PRIOR TO BEGINNING ANY EXCAVATION IN THE VICINITY OF UNDERGROUND FACILITIES. USCA WILL MARK LOCATIONS OF UTILITIES.

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.
CONSTRUCTION NOTES:

1. INSTALL FOUNDATION FOR SIGNAL STANDARDS PER POLE AND EQUIPMENT SCHEDULE ON TS-4.
2. INSTALL FOUNDATION FOR STATE CALTRANS TYPE 332 CABINET PER CALTRANS STANDARD PLANS (JULY 2006) ES-2C.
3. INSTALL FOUNDATION FOR TYPE B-2F SERVICE PEDESTAL AND WATER PER CALTRANS STANDARD PLANS (JULY 2006) ES-5C.
4. FURNISH AND INSTALL FULLY FUNCTIONAL 20707, CONTROLLER ASSEMBLY WITH NAVECT APEX SOFTWARE AND CALTRANS TYPE 332 CABINET. 332 CABINET SHALL BE PAINTED BIRCHWOOD GREEN (RAL 6013).
5. INSTALL TYPE B-2F 120/240 SERVICE ENCLOSURE PER SPECIAL PROVISIONS. ENCLOSURE SHALL BE GALVANIZED.
6. INSTALL LED ILLUMINATED STREET NAME SIGN (2401) ON SIGNAL MAST ARM.
7. INSTALL VIDEO DETECTION CAMERAS AND MOUNT AT BEST POSSIBLE LOCATIONS OR AS DIRECTED BY ENGINEER.
8. INSTALL GPS CLOCK, CABLE AND ANTENNA, DRILL MOUNTING HOLE FOR THE ANTENNA AND Secure ANTENNA TO CONTROLLED CABLE, INSTALL RG-59 ANTENNA CABLE TO CLOCK, AND CUD POWER CORD AND CUD CONNECTOR CABLE TO CONTROLLER, SEE DETAIL 3, SHEET 52.

NOTE:
FOR TRAFFIC SIGNAL NOTES, SEE SHEET NO. TS-1

APPLICABLE CALTRANS STANDARDS

ES-1A  ES-1B  ES-3A  ES-3C
ES-2A  ES-2B  ES-3B  ES-3D
ES-4C  ES-5A  ES-5B  ES-5D
ES-6A  ES-6B  ES-6C  ES-6D

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

CITY OF OAKLAND
TRANSPORTATION SERVICES DIRECTOR
301 FIFTH STREET, OAKLAND, CALIFORNIA 94614 - 510.238.3000 - 1-800-227-2600

E18TH STREET IMPROVEMENT PROJECT

CIVIL ENGINEER

TRAFFIC SIGNAL MODIFICATION PLAN

PROJECT NO.

P233285

SCALE: 1/"=1'-0"

SHR 50% 1/"=1'-0"

SHEET NO.

TS-6  43  50

DATE: 12/01/10

HALF SIZE
**POLE AND EQUIPMENT SCHEDULE**

<table>
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<tr>
<th>SIGNAL POLE</th>
<th>STANDARD</th>
<th>SIGNAL MOUNTING</th>
<th>PED. PUSH. BUTTON</th>
<th>AUDIBLE PED. SIGNAL</th>
<th>HPS LUMINARIES WATTAGE</th>
<th>FOUNDATION DETAIL</th>
<th>STREET NAME SIGN (INSIGNIA)</th>
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<td>C</td>
<td>CALIFORNIA TYPE 1-B</td>
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*SEE SPECIAL PROVISIONS FOR LIST OF CITY-FURNISHED EQUIPMENT

**CABLE/CONDUCTOR SCHEDULE**

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<th>CONDUCTOR DESIGNATION</th>
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</tr>
<tr>
<td>&quot;B&quot; CABLE = (KO,KG,KT,PS,WP, NEUTRAL)</td>
<td>1 1 1 1 1 1 1</td>
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<tr>
<td>&quot;C&quot; CABLE = (KO,KG,KT,PS,WP, NEUTRAL)</td>
<td>1 1 1 1 1 1 1</td>
</tr>
<tr>
<td>TOTAL SIGNAL CABLES</td>
<td>4 3 2 2 1 1 1 1</td>
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</tbody>
</table>

| SIGNAL CABLE 300#4 UF W/GRD (PBR) | B                |
| CONTROLS, SPEAKER, LED, VIBRATOR AND PBR | 1 1 1 1 1 1 1 1 1 |
| PPB (A2P) | 1 1 1 1 1 1 |
| PPB (A2W) | 1 1 1 1 1 1 1 1 1 |
| PPB (W2F) | 1 1 1 1 1 1 |
| TOTAL PPB CABLES | 4 3 2 2 1 1 1 1 |

| #4 CONDUCTORS THAN PEU | 3 3 3 3 3 3 |
| VIDEO DETECTION (COAXIAL CABLE) | 1 1 1 1 |
| VIDEO POWER CABLE, 250/3 UF W/GRD | 1 1 1 1 1 1 1 1 1 |
| NO. 8 CONDUCTORS, THINN/THIN | 2 2 2 2 2 2 2 2 |
| TOTAL NO. 8 | 2 2 2 2 2 2 2 2 2 |
| NO. 10 CONDUCTORS, THINN/THIN | 2 2 2 2 2 2 2 2 2 |
| LED SIGNS | 2 2 2 2 2 2 2 2 2 |

| CONDUCTOR SIZE (INCHES) | 3 3 3 3 3 3 3 3 3 3 |

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.

CITY OF OAKLAND
TRANSPORTATION SERVICES DIVISION
2000 CENTER ST, 8TH FLOOR, OAKLAND, CA 94612
E18TH STREET IMPROVEMENT PROJECT

POLE & EQUIPMENT CABLE/CONDUCTOR SCHEDULES

PROJECT NO. P233285

CIVIL ENGINEER

CHECKED BY

DESIGNED BY

SUPERVISING CIVIL ENGINEER

SHEET NO. TS-5

SCALE: 1/" = 20'-0" DRAWN BY

DATE: DEC 2016

HALF SIZE
PROJECT NOTES:
1. ALL SIGNAL, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO CALIFORNIA MUTCD AND CALTRANS STANDARD PLANS OR AS DIRECTED BY THE ENGINEER.
2. REMOVE ALL PAINTED MARKINGS AND STRIPING THAT ARE IN CONFLICT WITH THE NEW CROSSWALKS.
3. ALL PAINTED MARKINGS SHALL BE THERMOPLASTIC.
4. ALL CROSSWALKS AND LIMIT LINES SHALL BE 12" WIDE IN PAINTED LINES EXCEPT AS NOTED. CROSSWALKS AND LIMIT LINES SHALL BE 6" HIGH ON CURB. UNLESS OTHERWISE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
5. ADJUSTMENT OF ROADS, PAVEMENT, WALK, AND OTHER URBAN UTILITIES TO THE FINISH GRADE SHALL BE COORDINATED BY THE CONTRACTOR AND PERFORMED BY THE CONTRACTOR.
6. ADJUSTMENT OF ALL OTHER UTILITY HOSES TO FINISH GRADE TO INCLUDES SADDLES, STREET LIGHTS, HYDRANTS OR FIRE HOSE PULLS, AND CLEAN OUTS SHALL BE PERFORMED BY THE CONTRACTOR.
7. ALL SIGNS AND SYMBOLS TO THE REAR OF SIGNAL LIGHTS AND COMPLETE UNTIL SIGNAL LIGHTS HAVE BEEN INSTALLED.
8. ALL PARADOX SIGNS AND POSTS AND TRAFFIC SIGNAL EQUIPMENT SHALL BE DELIVERED TO THE CONTRACTOR FOR INSTALLATION 10 DAYS AT 7710 HOSPITAL DRIVE, OAKLAND, CA.
9. CONTRACTOR SHALL IMPLEMENT TRAFFIC CONTROL PLANS FOR TEMPORARY PEDESTRIAN WALKWAYS AS REQUESTED IN THE SPECIFICATIONS.
10. DETECTABLE WALKING BUMPS SHALL BE CUT TO MATCH CURB ALIGNMENT.

CONSTRUCTION NOTES:
1. REMOVE EXISTING 12" STPHE.
2. REMOVE EXISTING DETAIL 21.
3. REMOVE EXISTING DETAIL 8.
4. REMOVE EXISTING DETAIL 21.
5. INSTALL 12" STPHE.
6. INSTALL 80' OF DETAIL 21.
7. REMOVE EXISTING STOP LEGEND.
8. REMOVE EXISTING WHEELCHAIR RAMP OR SIDEWALK.
9. INSTALL NEW SIDEWALK.
10. INSTALL WHEELCHAIR RAMP WITH CURB AND GUTTER.
11. INSTALL WATER Meter STAND WITH CURB AND GUTTER.
12. INSTALL NEW CURB AND GUTTER.
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CONSTRUCTION NOTES:
1. INSTALL FOUNDATION FOR SIGNAL STANDARD PER POLE AND EQUIPMENT SCHEDULE ON SHEET 49.
2. INSTALL FOUNDATION FOR CALTRANS TYPE 332 CABINET PER CALTRANS STANDARD PLANS (JULY 2002) ES-3C. CABINET SHALL BE PAINTED BROWN/GREEN (RAL 8011).
3. INSTALL FOUNDATION FOR CALTRANS TYPE II-A SERVICE PEDESTAL PER CALTRANS STANDARD PLANS (JULY 2002) ES-2C AND ES-2D.
4. INSTALL TYPE 2070 CONTROLLER ASSEMBLY AND CALTRANS TYPE 332 CABINET W/ LATEST BUILD OF INTEC APOSISE SOFTWARE & HOMERICK W/ 8" DOUBLE EXTENSIONS.
5. INSTALL CALTRANS TYPE II-A 120/240V SERVICE ENCLUSEUR.
6. INSTALL POLE SPEC. BOX AND BOX COVER SHALL BE MARKED "SERVICE". COORDINATE SERVICE CONNECTION FROM EXISTING POLE AND RISER WITH PG&E. INSTALL RISER STUB BETWEEN CURB BOX AND POLE.
7. INSTALL LED INTERNALLY ILLUMINATED STREET NAME SIGN (ISNS) ON SIGNAL MAST ARM. SEE DETAIL 1, SHEET 52.
8. INSTALL VIDEO DETECTION CAMERAS AND EOWS, AND MOUNT AT BEST POSSIBLE LOCATIONS AS DIRECTED BY THE ENGINEER. LOCATIONS SHOWN ON DRAWING ARE ONLY SCHEMATIC. CAMERAS AND EOWS SHALL BE PLACED ON LUMINARE ARMS UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
9. INSTALL GPS CLOCK, CABLE AND ANTENNA. DRILL MOUNTING HOLE FOR THE ANTENNA PER MANUFACTURER'S INSTRUCTIONS. INSTALL RG-59 ANTENNA CABLE TO CLOCK, AND GPS POWER CORD AND C25 CONNECTOR CABLE TO CONTROLLER, SEE DETAIL 3, SHEET 52. FOR POLARIS CONTROL BOARD INSTALLATION LOCATIONS, SEE DETAIL 4, SHEET 52.
10. REMOVE AND SAVAGE EXISTING LUMINARE AND LUMINARE MAST ARM. REMOVE TOP 4" OF FOUNDATION. CONVERT TO R CURB BOX AND RECONNECT 5L WIRING TO MOUNTING CIRCUIT.
11. INSTALL ETHERNET OVER COPPER MODEM IN CONTROLLER.

PROJECT NOTES:
FOR TRAFFIC SIGNAL NOTES, SEE SHEET NO. TS-1.

---

civil engineer

No. DATE BY REFERENCE

TRAFFIC SIGNAL PLAN
PARK BLVD / NEWTON AVE
PARK BLVD / E 21ST ST

SHEET NO.
TS-11 48 OF 52

E18TH STREET IMPROVEMENT PROJECT
TRAFFIC SIGNAL INSTALLATION
PROJECT NO. P233285

CITY OF OAKLAND
TRANSPORTATION SERVICES DIVISION
250 FARMAKI CIRCLE, SUITE 200, CITY OF OAKLAND, CA 94612
(510) 831-7000

HALF SIZE
POLE AND EQUIPMENT SCHEDULE

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<th>SIGNAL POLE</th>
<th>STANDARD</th>
<th>SIGNAL MOUNTING</th>
<th>RED PUSH BUTTON</th>
<th>AUDIBLE PRESS SIGNAL</th>
<th>HPS LUMINARIE WATTAGE</th>
<th>FOUNDATION DETAIL</th>
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<th>APS VERBAL MESSAGE</th>
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<tr>
<td>A</td>
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<td>- -</td>
<td>200W</td>
<td>ES-7F</td>
<td>NEWTON AVE</td>
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<tr>
<td>B</td>
<td>CALTRANS TYPE 19</td>
<td>- -</td>
<td>T-2V-1P 4P</td>
<td>-</td>
<td>-</td>
<td>ES-7B 7M</td>
<td>PARK BLVD CROSSING PARK BLVD OUCKDO</td>
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<td>C</td>
<td>CALTRANS 19-4-100</td>
<td>25' 6' M-2V S-1V-1P 4P</td>
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<td>200W</td>
<td>ES-7F</td>
<td>NEWTON AVE</td>
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<td>ES-7B 7M</td>
<td>NEWTON AVE CROSSING NEWTON AVE CHRR-CHRR</td>
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<td>ES-7B 7M</td>
<td>NEWTON AVE CROSSING NEWTON AVE CHRR-CHRR</td>
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NOTES:
1. SEE SPECIAL PROVISIONS FOR LIST OF CITY-FURNISHED EQUIPMENT
2. 127 SIGNAL LENSES FOR ALL TRAFFIC SIGNAL HEADS
3. ALL STREET LIGHTS SHALL BE 240V
4. BACKPLATES ONLY ON MAST ARM MOUNTED SIGNAL HEADS

LOCAL VEST PILOT SERVICE ENCLOSURE
1 POLE, 2 WIRE

NEW TYPE III AF SERVICE ENCLOSURE DETAIL
NW CORNER OF PARK BLVD & NEWTON

E18TH STREET IMPROVEMENT PROJECT
TRAFFIC SIGNAL INSTALLATION
PROJECT NO. P233285

CITY OF OAKLAND
TRANSPORTATION SERVICES DIVISION

CIVIL ENGINEER

CHECKED BY

DESIGNED BY

DRAWN BY

POLE, EQUIPMENT AND CABLE/CONDUCTOR SCHEDULES
PARK BLVD / NEWTON AVE
PARK BLVD / E 21ST ST

CABLE/CONDUCTOR SCHEDULE

<table>
<thead>
<tr>
<th>CONDUCTOR DESIGNATION</th>
<th>No. OF CONDUCTORS</th>
<th>A A A A A A A</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Cable (2x4,4x4)</td>
<td>1 - 1 - 1 - 1 - 1</td>
<td></td>
</tr>
<tr>
<td>B Cable (1x2,4x4)</td>
<td>1 - 1 - 1 - 1 - 1</td>
<td></td>
</tr>
<tr>
<td>C Cable (2x4,4x4,4x4)</td>
<td>1 - 1 - 1 - 1 - 1</td>
<td></td>
</tr>
<tr>
<td>TOTAL SIGNAL CABLES</td>
<td>3 - 2 - 2 - 2 - 1</td>
<td></td>
</tr>
</tbody>
</table>

POLARIS NAVIGATOR CONTROL BOARD (2-WIRE)

<table>
<thead>
<tr>
<th>SIGNAL W/2-WIRE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

VIDEO DETECTION (COAXIAL CABLES)

| A | 1 - 1 - 1 - 1 |
| B | 1 - 1 - 1 - 1 |
| TOTAL COAXIAL CABLE | 3 - 2 - 2 |

VIDEO POWER CABLE (2x2 R Wire)

| A | 1 - 1 - 1 |
| B | 1 - 1 - 1 |
| TOTAL | 3 - 2 |

#8 CONDUCTORS THHN/THWN

| 120V LIGHTING | 2 - 2 - 2 |
| TOTAL | 3 - 3 - 3 |

#8 CONDUCTORS THHN/THWN

| 2 - 2 - 2 |

6 CONDUIT SIZE (INCHES)

| 3 - 3 - 3 - 3 - 3 - 3 |

SCALE: 1" = 20' VERT. 1/100 HORIZ. 1/100
SHEET NO: TS-12
49 OF 52

HALF SIZE
CONSTRUCTION NOTES:
1. INSTALL FOUNDATION FOR SIGNAL STANDARD PER POLE AND EQUIPMENT SCHEDULE ON SHEET 51.
2. INSTALL FOUNDATION FOR CALTRANS TYPE 332 CABINET PER CALTRANS STANDARD PLANS (JULY 2002) ES-20, CABINET SHALL BE PAINTED BEDFORD GREEN (RAL 6001).
4. INSTALL TYPE 2070 CONTROLLER ASSEMBLY AND CALTRANS TYPE 332 CABINET W/ LATEST BUILD OF NACOTD APPOX E SOFTWARE & HOMEX BOX W/ 6" DOUBLE EXTENSIONS.
5. INSTALL CALTRANS TYPE III-1F 120/240V SERVICE ENCLOSURE.
6. INSTALL PSU SPEC. BOX, AND BOX COVER SHALL BE MARKED "SERVICE", COORDINATE SERVICE CONNECTION FROM EXISTING POLE AND RISER WITH PG&E. INSTALL RISER STUB BETWEEN Curb BOX AND POLE.
7. INSTALL LED INTERNALLY ILLUMINATED STREET NAME SIGN (igsns) ON SIGNALmast ARM. SEE DETAIL 1, SHEET 52.
8. INSTALL VIDEO DETECTION CAMERAS AND EVP'S AND MOUNT AT BEST POSSIBLE LOCATIONS AS DIRECTED BY THE ENGINEER. LOCATIONS SHOWN ON DRAWING ARE ONLY SCHEMATICAL. CAMERAS AND EVP'S SHALL BE PLACED ON LUMINARIA ARMS UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
9. INSTALL GPS CLOCK, CABLE, AND ANTENNA. DRILL MOUNTING HOLE FOR THE ANTENNA PER MANUFACTURER'S INSTRUCTIONS. INSTALL A 1/4" ANTENNA CABLE TO CLOCK AND GPS POWERED CORDS AND CYS CONNECTOR CABLE TO CONTROLLER. SEE DETAIL 3, SHEET 52. FOR POLARIZED CONTROL BOARD INSTALLATION LOCATIONS, SEE DETAIL 4, SHEET 52.
10. REMOVE AND SALVAGE EXISTING LUMINARIA AND LUMINARIA MAST ARM. REMOVE TOP 4" OF FOUNDATION. CONVERT TO #5 CURB BOX AND RECONNECT 5L WIRING TO MAINTAINED CIRCUIT.
11. INSTALL ETHERNET OVER COPPER WOODEN IN CONTROLLER.

PROJECT NOTES:
FOR TRAFFIC SIGNAL NOTES, SEE SHEET NO. TS-1.

E18TH STREET IMPROVEMENT PROJECT
TRAFFIC SIGNAL INSTALLATION
PROJECT NO. P233285

CITY OF OAKLAND
TRANSPORTATION SERVICES DIVISION
P.O. BOX 6499, OAKLAND, CA 94606

TRAFFIC SIGNAL PLAN
PARK BLVD / NEWTON AVE
PARK BLVD / E 21ST ST

CIVIL ENGINEER

No. DATE BY REFERENCE

TRAFFIC SIGNAL PLAN
PARK BLVD / E 21ST ST

SHEET NO. TS-13
50 52

HALF SIZE