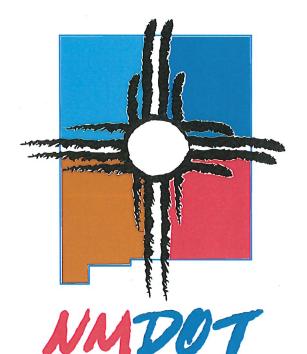
CITY OF ALBUQUERQUE CONSTRUCTION PLANS

APPROVED AS RECORD DRAWINGS DMD/CSD CITY CONSTRUCTION ENGINEER

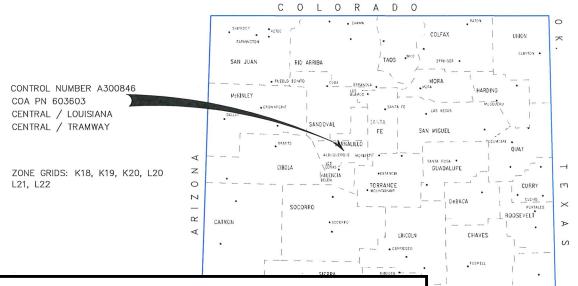
DATE:_

EAST CENTRAL AVENUE OPERATIONAL IMPROVEMENTS 100% PLANS



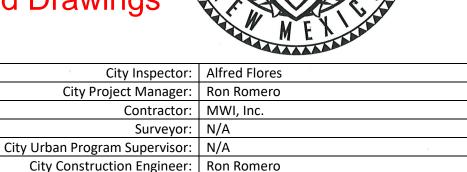
BERNALILLO COUNTY
CONTROL NUMBER
A300846
COA PROJECT NUMBER
6036.03

AS-BUILT Record Drawings



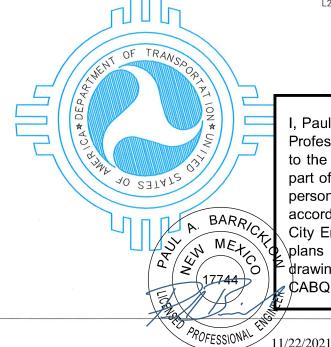
I, Paul Barricklow, of the firm Lee Engineering, LLC, a Registered Professional Engineer in the State of New Mexico, do herby certify, to the best of my knowledge and belief, that the infrastructure as part of this project has been inspected by CABQ or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built drawings. The Certification is based on the site inspections by CABQ or personal under my direction in September 2021.



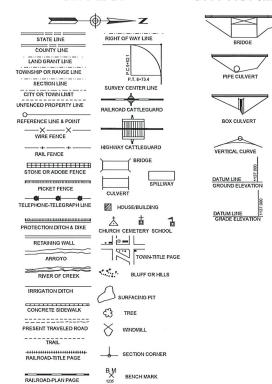


Letter of Acceptance Date: June 3, 2021





CONVENTIONAL SIGNS ON PLAN ON PROFILE



SHIPPING POINTS

ALBUQUERQUE

THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (1986, UPDATE #9) SHALL GOVERN CONSTRUCTION OF THIS PROJECT.

LEGEND

THIS CONTRACT
BITUMINOUS SURFACED
GRAVEL SURFACED
GRADED AND DRAINED
UNIMPROVED
PRIMITIVE
CONCRETE SURFACED

LENGTH OF PROJECT 4.06 MILES

THIS PROJECT IS IN SECTION 19 T10N R4E (CENTRAL AVE. / LOUISIANA BLVD.)
THIS PROJECT IS IN SECTION 27 T10N R4E (CENTRAL AVE. / TRAMWAY BLVD.)



VICINITY MAP

INTENT OF PROJECT

IMPLEMENTATION AND INSTALLATION OF ATSPM SIGNAL TIMING TO IMPROVE OPERATIONS WITHIN CORRIDOR BETWEEN LOUISIANA BLVD. AND TRAMWAY BLVD.

NO EARTH DISTURBING ACTIVITIES ANTICIPATED.

CONTACTS

COA PROJECT MANAGER LEE ENGINEERING

DEBBIE BAUMAN
PAUL BARRICKLOW

(505) 768-3649 (505) 338-0988





| CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION TITLE: EAST CENTRAL AVENUE OPERATIONAL IMPROVEMENTS VICINITY MAP Design Review Committee City Engineer Approval Solution | | | | | | | | | | |
|---|-----------------------------|-----------|---------------|----------|----------------------|--------------------------------|-----|-----------------|----------|---------|
| VICINITY MAP Design Review Committee City Engineer Approval B B B B B B B B B B B B B B B B B B B | | DE | PARTMENT OF | MUI | VICIF | AL DI | EVE | LOPMENT | | |
| City Project No. A 2008 46 (6026 03) Zone Map No. Sheet Of K-18, K-19, K20, L20 1 02 5 15 | TITLE: | EAST | CENTRAL AVE | | | | ANC | L IMPROVE | EMENTS | |
| City Project No. Zone Map No. Sheet Of A300846 (6036.03) K-18, K-19, K20, L20 1 - 02 5 - 15 | Design Review (| Committee | City Engineer | Appro | oval | Design | | Mo, I Day I Yr. | Mo. I De | r I Yr. |
| | City Project No. A300846 | (6036. | 03) | Zc K- | ne M 18, K- L2 | ap No. 19, K20, L 1, L22 | .20 | | | 15 |

06/19/2019

| | INDEX OF SHEETS |
|------------------|---|
| SHEET NO. | DESCRIPTION |
| 1 - 01 | COVER SHEET |
| 1 - 02 | VICINITY MAP |
| 1 - 03 | INDEX OF SHEETS |
| 1 - 04 TO 1 - 05 | GENERAL AND ITS NOTES |
| 1 - 06 | ENVIRONMENTAL COMMITMENTS |
| 1 - 07 | TRAFFIC SIGNAL REQUIREMENTS AND INCIDENTAL ITEMS |
| | |
| | SUB-TOTAL 7 SHEETS |
| | |
| 2X | NOT USED |
| | |
| 3X | NOT USED |
| 3. | |
| 4X | NOT USED |
| | = |
| 25 | |
| 5 - 01 | ITS QUANTITIES AND LEGEND |
| 5 - 02 | COMMUNICATION DETAILS |
| 5 - 03 | CCTV CAMERA DETAIL |
| 5 - 04 | ITS TYPICAL INTERSECTION DETAILS |
| 5 - 05 TO 5 -15 | ITS PLAN SHEEETS |
| | |
| | SUB-TOTAL 15 SHEETS |
| | |
| TC - 1 | COA TEMPORARY TRAFFIC CONTROL CONSTRUCTION TRAFFIC CONTROL STANDARDS - 2802 |
| TC - 2 | COA TEMPORARY TRAFFIC CONTROL CONSTRUCTION TRAFFIC CONTROL STANDARDS - 2803 |
| TC - 3 | COA TEMPORARY TRAFFIC CONTROL CONSTRUCTION TRAFFIC CONTROL STANDARDS - 2806 |
| TC - 4 | COA TEMPORARY TRAFFIC CONTROL CONSTRUCTION TRAFFIC CONTROL STANDARDS - 2802 |
| | SUB-TOTAL 4 SHEETS |
| 6X | NOT USED |
| 7X | NOT USED |
| 8X | NOT USED |
| 9X | NOT USED |
| | PROJECT TOTAL 26 SHEETS |





| A300846 (6036 03) A300846 (6036 | | | AS B | CONTRAC | WORK STAKED BY | INSPECTOR'S ACCEPTANC | FIELD VERIFICATION | CORRECTED | MICRO- | RECORDE | NO. | |
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| ENGINEERING CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION TITLE: EAST CENTRAL AVENUE OPERATIONAL IMPROVEMENTS INDEX OF SHEETS Design Review Committee City Project No. Zone Map No. Sheet Of DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION STORY SHEETS Design Review Committee City Engineer Approval Sheet Of DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION STORY Sheet Of DESIGN Review Committee City Engineer Approval Sheet Of DESIGN Review Committee City | | , | BENCH MARKS | | | | | | | | | |
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| CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION TITLE: EAST CENTRAL AVENUE OPERATIONAL IMPROVEMENTS INDEX OF SHEETS Design Review Committee City Engineer Approval State of State of Sheet | | | SUR | | NO. | | | | | | | |
| CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION TITLE: EAST CENTRAL AVENUE OPERATIONAL IMPROVEMENTS INDEX OF SHEETS Design Review Committee City Engineer Approval Symptomic Structure Walfout Nr. Walfout Nr. Walfout Nr. Walfout Nr. Since Map No. Sheet Of | | | ENGINEERS SEAL | | REGISTE | | | _ | | | WOINEER NO |) |
| CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION TITLE: EAST CENTRAL AVENUE OPERATIONAL IMPROVEMENTS INDEX OF SHEETS Design Review Committee City Engineer Approval September 15 | | | | | | | BY. | | | /2019 | /2019 | /2019 |
| CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION TITLE: EAST CENTRAL AVENUE OPERATIONAL IMPROVEMENTS INDEX OF SHEETS Design Review Committee City Engineer Approval 9 | | | | | | | REMARKS | 141 | DESIGN | DATE | | |
| CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION TITLE: EAST CENTRAL AVENUE OPERATIONAL IMPROVEMENTS INDEX OF SHEETS Design Review Committee City Engineer Approval 9 | | ngin ee ring | | | | | DAT. | | | B≺ | ВУ | ВУ |
| INDEX OF SHEETS Design Review Committee City Engineer Approval 5 | | CITY OF ALBUQUERI | DEV | ELC |) PN | 1EN | | | | B | DR | 끙 |
| Design Review Committee City Engineer Approval 50 100 100 100 100 100 100 100 100 100 | TITLE: EAST | CENTRAL AVENUE OPERAT | 10N | AL | IM | PR | OVE | EME | EN: | TS | | |
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| A300846 (6036.03) K-18, K-19, K20, L20 1 - 03 5 - 15 | A300846 (6036. | .03) Zone Map No K-18, K-19, K20 L21, L22 | , L20 | | | | 3 | | | - | 15 | 5 |

GENERAL NOTES

- CITY OF ALBUQUERQUE GENERAL CONDITIONS AND STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION SHALL GOVERN CONSTRUCTION ADMINISTRATION. NMDOT SPECIFICATION CONCURRENCE FOR USE OF CITY OF ALBUQUERQUE STANDARDS AND SPECIFICATIONS APPROVED ON 2/8/19. ALL CONSTRUCTION FOR THIS PROJECT WILL BE COMPLETED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARDS AND SPECIFICATIONS. (UPDATED IN APRIL 2011).
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS AND DISPOSALS REQUIRED TO COMPLETE THIS PROJECT.
- 3. THE CONTRACTOR SHALL MAINTAIN AN UP-TO-DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THESE PLAN SHALL BE KEPT CURRENT, WITHIN TWO WEEKS, AT ALL TIMES AND SHALL BE SUBJECT TO REVIEW BY THE PROJECT MANAGER THROUGHOUT THE PROJECT AND WILL BE REVIEWED BY THE PROJECT MANAGER FOR ACCURACY AND COMPLETENESS AT LEAST ONCE EVERY 30 DAYS. THE FINAL AS-BUILT PLANS SHALL BE SUBMITTED TO THE PROJECT MANAGER PRIOR TO FINAL PAYMENT. THE ABOVE IS INCIDENTAL TO BID ITEM 2.
- 4. ALL DIMENSIONS ON PLANS ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ALL OTHER PERTINENT INFORMATION THAT MAY BE REQUIRED TO COMPLETE THE WORK.
- 5. THE CONTRACTOR SHALL HAVE PERSONNEL AVAILABLE 24 HOURS PER DAY, 7 DAYS A WEEK TO INSPECT AND MAINTAIN DETOURS AND TRAFFIC CONTROL DEVICES. THE CONTRACTOR WILL BE RESPONSIBLE FOR ADEQUATE PRECAUTIONS DURING INCLEMENT WEATHER SO THAT TRAFFIC IS NOT SUBJECT TO UNDUE DANGER.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LANDFILL DUMPING FEES AT NO ADDITIONAL COST TO THE OWNER. SALVAGEABLE MATERIALS FROM THIS PROJECT, INCLUDING SIGNAL CONTROLLERS, SPLICE CABINETS, ALL CABLING, AND CONTROL CABINETS, ARE TO BE HAULED AND STOCKPILED AT CITY TRAFFIC ENGINEERING YARD ON PIÑO ROAD NE. HAUL OF SUCH MATERIAL SHALL BE PERFORMED DURING NORMAL WORKING HOURS AS DIRECTED BY THE PROJECT MANAGER. ALL ELECTRICAL ITEMS TO BE SALVAGED, SUCH AS MODEMS, TERMINAL SERVERS, CONTROLLERS AND ANY OTHER ELECTRICAL COMPONENT SHALL BE DELIVERED TO THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING YARD ON PIÑO ROAD NE. THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM TO BE REPLACED, FOR BID ITEMS. THIS WORK IS INCIDENTAL TO BID ITEM 2.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPORTING AND CLEANUP OF SPILLS WHICH ARE ASSOCIATED WITH PROJECT CONSTRUCTION AND SHALL REPORT AND RESPOND TO SPILLS OF HAZARDOUS MATERIALS SUCH AS GASOLINE, DIESEL, MOTOR OILS, SOLVENTS, CHEMICALS, TOXIC AND CORROSIVE SUBSTANCES, AND OTHER MATERIALS WHICH MAY BE A THREAT TO PUBLIC HEALTH OR THE ENVIRONMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING PAST SPILLS ENCOUNTERED DURING CONSTRUCTION AND OF CURRENT SPILLS NOT ASSOCIATED WITH CONSTRUCTION. REPORTS SHALL BE MADE IMMEDIATELY TO THE PROJECT MANAGER (OR TO THE PROPERTY OWNER). ANY UNREPORTED SPILLS IDENTIFIED AFTER CONSTRUCTION AND ASSOCIATED WITH THE PROJECT CONSTRUCTION SHALL BE CLEANED UP BY THE CONTRACTOR IN ACCORDANCE WITH THE CONTRACT. THE CONTRACTOR SHALL BEAR THE FULL COST OF CLEANUP OF SUCH UNREPORTED SPILLS.
- 8. THE CONTRACTOR SHALL PROVIDE INGRESS AND EGRESS AND MAINTAIN PEDESTRIAN ADA AND BICYCLE ACCESS TO ALL LOCAL BUSINESSES AND RESIDENCES FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL ADVISE AND SCHEDULE ALL SIGNS AND ACCESS CLOSURES, AT LEAST 48 HOURS IN ADVANCE, WITH AFFECTED PROPERTY OWNERS AND WITH THE PROJECT MANAGER.
- 9. THE CONTRACTOR SHALL KEEP THE PUBLIC APPRISED OF CONSTRUCTION OPERATIONS INVOLVING STREET AND LANE CLOSURES AND OTHER PERTINENT INFORMATION RELATING TO TRAFFIC MOVEMENT.
- LOCATION OF CONDUITS, FOUNDATIONS, CONTROL CABINETS, POLES, PULL BOXES, MANHOLES AND SPLICE CABINETS SHOWN ON THE PLANS ARE SCHEMATIC AND SHALL BE VERIFIED.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING IN KIND WITH CURRENT MODEL ANY DISTURBED MARKED AND LOCATED UTILITIES AND RESTORING SERVICE AT THE CONTRACTOR'S EXPENSE.
- 12. EXISTING CONDUIT TO BE ABANDONED SHALL HAVE ALL WIRING REMOVED WITH EXCEPTION OF TRACER WIRE.
- 13. SEVEN (7) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL SUBMIT TO DMD, CONSTRUCTION COORDINATION DIVISION, A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS TO OBTAIN A BARRICADE PERMIT FROM THE DMD, CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADING ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF STANDARD SPECIFICATIONS

GENERAL NOTES (CON'T)

- 14. THE CONTRACTOR SHALL ARRANGE TO HAVE OFF-DUTY POLICE OFFICERS PRESENT TO DIRECT TRAFFIC WHENEVER POWER TO SIGNALS IS TURNED OFF. REIMBURSEMENT FOR THE OFF-DUTY POLICY OFFICERS SHALL BE CONSIDERED INCIDENTAL AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFORE THE ABOVE IS INCIDENTAL TO BID ITEM 2.
- FOR THE PURPOSES OF THIS CONTRACT, THE TERMS "PROJECT MANAGER" AND "ENGINEER" ARE TO BE SYNONYMOUS.
- 16. THE CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. THE CONTRACTOR SHALL REMOVE ANY AND ALL GRAFFITI FROM ALL EQUIPMENT WHETHER PERMANENT OR TEMPORARY WITHIN 24 HOURS.
- 17. INSTALLATION OF ALL NEW COMMUNICATION CABLE SHALL INCLUDE THE TERMINATION OF NEW OR EXISTING TWISTED PAIRS TO TERMINAL BLOCKS INSIDE ALL NEW OR EXISTING SPLICE CABINETS ALONG ROUTE OR NEW CABLE.
- CONTRACTOR SHALL COORDINATE ANY IMPACTS TO BUS ROUTES AND/OR BUS STOPS WITH ABQ RIDE. IF NECESSARY, ABQ RIDE WILL SET UP TEMPORARY BUS STOP LOCATIONS. ABQ RIDE: (505) 243-7433

TRAFFIC SIGNAL NOTES

- ALL WORK ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE CURRENT NATIONAL ELECTRIC CODE, THE STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS FOR ELECTRICAL WIRING AND APPARATUS, THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (UPDATED IN JULY 2011).
- THE CONTRACTOR IS WARNED THAT EXISTING CONDUITS MAY CONTAIN AC POWER AND CAUTION SHALL BE EXERCISED IN INTERCEPTING OR INSTALLING CABLE IN EXISTING CONDUIT.
- 3. ALL PULL BOXES SHALL BE REINFORCED POLYMER MORTAR HEAVY DUTY TYPE WITH REINFORCED POLYMER MORTAR HEAVY DUTY COVERS. CONCRETE COVERS, METAL COVERS, AND CONCRETE PULL BOXES WILL NOT BE ACCEPTABLE
- 4. WATERTIGHT SPLICING OF TRAFFIC SIGNALS MULTI-CONDUCTOR CABLE WILL BE PERMITTED IN LARGE PULL BOXES INCLUDING LARGE MEDIAN PULL BOXES. SPLICING OF VIDEO DETECTION COAXIAL CABLE AND PREEMPTION DETECTOR CABLE WILL NOT BE PERMITTED FROM THE FIELD UNIT TO THE CONTROLLER CABINET.
- SPLICING OF COMMUNICATIONS CABLE WILL NOT BE PERMITTED IN PULL BOXES. SPLICING OF COMMUNICATIONS CABLE (CONNECTIONS) WILL BE PERMITTED ONLY AT SPLICE CABINETS OR CONTROLLER CABINETS WITH SPLICE CLOSURES. SPLICING OF TRAFFIC SIGNALS MCC WILL BE PERMITTED IN LARGE PULL BOXES INCLUDING LARGE MEDIAN PULL ROXES.
- 6. ALL LOOP LEAD-IN CABLES SHALL BE TAGGED AT THE CONTROL CABINET TO IDENTIFY EACH CABLE BY PHASE AND LOOP NUMBER.
- 7. ALL CONDUIT GROUNDS SHALL BE INSULATED GREEN #6 AWG CONDUCTORS IN LIFU OF THE SPECIFIED BARE COPPER.
- 8. THE CONTRACTOR SHALL NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS THREE WORKING DAYS IN ADVANCE OF ANY ANTICIPATED WORK ON TRAFFIC SIGNALS. TRAFFIC ENGINEERING OPERATIONS PERSONNEL AND AN OFF-DUTY POLICE OFFICER AND MUST BE PRESENT WHEN SIGNALS AND LIGHTING ARE SHUT-OFF OR TURNED ON. THE CONTRACTOR SHALL ALSO NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS EACH TIME A TRAFFIC SIGNAL CONTROL DOOR IS OPENED.
- 9. CONTRACTOR SHALL COIL EXCESS COPPER INTERCONNECT CABLE AT ALL NEW OR EXISTING TRAFFIC MANHOLES BETWEEN SPLICE CABINETS OR CONTROL CABINETS WITH SPLICE BARS. IF MORE THAN ONE MANHOLE EXISTS BETWEEN SPLICE CABINETS OR CONTROL CABINETS WITH SPLICE BARS, THEN COILING IS ONLY REQUIRED AT ONE OF THE MANHOLES. THE FOLLOWING QUANTITIES OF COPPER COMMUNICATION CABLE SHALL BE COILED:

12 PAIR - 50 FT 50 PAIR - 25 FT 25 PAIR - 50 FT 75 PAIR - 25 FT

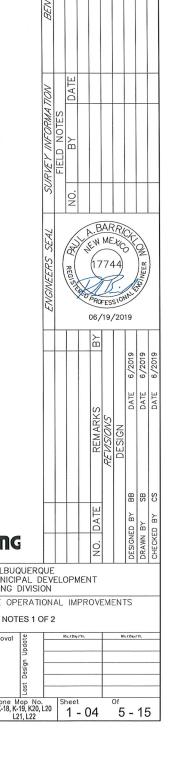
- 10. FIBER CABLING SHALL BE COILED IN PULL BOXES (20 FT). AT SPLICE VAULTS AND MANHOLE SPLICE LOCATIONS THE FIBER CABLING SHALL BE COILED 50FT FOR EACH CABLE ENTRY INTO THE VAULT, REGARDLESS OF WHETHER THERE IS A PROPOSED SPLICE CLOSURE AT THE LOCATION.
- LIVE UNUSED CONDUCTORS WILL NOT BE ALLOWED AT MAST ARM POLES AND PEDESTAL POLES, ALL SUCH UNUSED CONDUCTORS SHALL BE DISCONNECTED AT THE LARGE PULL BOX ADJACENT TO THE POLE, CAPPED AND WATERPROOFED.
- 2. FOR CONDUITS CONTAINING ONLY LOW VOLTAGE COMMUNICATIONS CABLES, THE REQUIREMENTS FOR A SINGLE CONDUCTOR BARE COPPER #8 AWG MAY BE WAIVED WHERE PERMITTED BY THE NATIONAL ELECTRIC CODE.

TRAFFIC SIGNAL NOTES (CON'T)

- 13. ANY EXISTING CABLES (INCLUDING SINGLE CONDUCTORS, NEUTRALS, MULTI CONDUCTORS, AND LOOP LEAD-IN CABLES) USED TO PULL NEW INTERCONNECT OR PREEMPTION CABLES SHALL BE REPLACED IN-KIND WITH NEW CABLE. WHERE EXISTING CONDUIT FILLS EXCEED 60% NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS FOR DETERMINATION WHETHER OR NOT ALL CABLES ARE TO BE REPLACED AND/OR ADDITIONAL CONDUITS ARE TO BE INSTALLED. CONTRACTORS SHALL PROVIDE UPDATED TIMING AND COORDINATION PLANS TO THE CITY OF ALBUQUERQUE TRAFFICE ENGINEERING OPERATIONS PERSONNEL. THE CITY OF ALBUQUERQUE TRAFFICE SIGNAL CONTROLLERS.
- 14. FIBER OPTIC CABLE SHALL NOT BE INSTALLED IN THE SAME CONDUIT AS SIGNAL OR FLASHER CONDUCTORS, EXCEPT WHERE SHOWN ON THE PLANS.
- 15. LIVE UNUSED CONDUCTORS WILL NOT BE ALLOWED AT MASTARM POLES AND PEDESTAL POLES. ALL UNUSED CONDUCTORS SHALL BE CAPPED AND WATER PROOFED WITH CRIMPED ON NYLON WIRE CAPS.
- 16. ALL COPPER SPLICES SHALL USE SILICONE GEL FILLED WIRE NUTS.
- 17. THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS PERSONNEL WILL PROVIDE ALL TRAFFIC SIGNAL TIMING PLANS AND WILL PROGRAM ALL TRAFFIC SIGNAL CONTROLLERS.
- 18. THE CONTRACTOR SHALL ARRANGE TO HAVE OFF-DUTY POLICE OFFICERS DIRECT TRAFFIC WHEN SIGNALS ARE TURNED OFF.
- 19. ANY TRAFFIC SIGNAL EQUIPMENT REMOVED AND NOT RELOCATED SHALL BE SALVAGED BY THE CONTRACTOR AND DELIVERED TO THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING YARD ON PINO ROAD NE WITH PROPER DOCUMENTATION (LETTER OF TRANSMITTAL).
- 20. THE CONTRACTOR SHALL TAKE DIGITAL PHOTOS OF EXISTING TRAFFIC SIGNAL EQUIPMENT PRIOR TO ANY REMOVALS OF SIGNAL EQUIPMENT AND ALL SIGNAL EQUIPMENT AFTER CONSTRUCTION. THE PICTURES SHALL BE PROVIDED TO THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS IN .JPG FORMAT AND PLACED ON A USB DRIVE. THE USB DRIVE SHALL BECOME THE PROPERTY OF THE CITY AND MAY BE USED TO RESOLVE ANY QUESTIONS RELATED TO THE ORIGINAL CONDITION AND QUALITY OF EXISTING EQUIPMENT. ALL REMOVED EXISTING TRAFFIC SIGNAL EQUIPMENTS INCLUDING BUT NOT LIMITED TO POLES, SIGNAL HEADS, CONTROLLER CABINETS, CONFLICT MONITORS, AND DETECTORS SHALL BE DELIVERED TO THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING YARD ON PINO ROAD NE WITH PROPER DOCUMENTATION (LETTER OF TRANSMITTAL).
- 21. PEDESTRIAN PUSH BUTTON SIGNS SHALL BE INSTALLED WITH THE ARROW POINTING IN THE DIRECTION OF THE PEDESTRIAN MOVEMENT.

MAR 2 0 2020







SPECIAL TRAFFIC CONTROL REQUIREMENTS

- 1. SEPARATE PERMITS WILL BE REQUIRED FOR EVERY LANE CLOSURE. EACH PERMIT SHALL BE CLEARED BY THE CONSTRUCTION COORDINATION DIVISION OF THE CITY OF ALBUQUERQUE FOR INTERFERENCE WITH OTHER CONSTRUCTION PROJECTS. THE CONTRACTOR SHALL ALLOW ENOUGH TIME BETWEEN THEIR PERMIT REQUEST AND CONSTRUCTION BEFORE SCHEDULING CREWS AND EQUIPMENT.
- THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IN WRITING OF ANY DENIED OR DELAYED PERMITS THAT WILL AFFECT THE CONSTRUCTION SCHEDULE. DENIALS AND DELAYS WILL BE CONSIDERED FOR ADDITIONAL CONSTRUCTION TIME AS NECESSARY.
- 3. BARRICADING OF CONSTRUCTION SITES SHALL BE PLACED NO EARLIER THAN ONE HOUR PRIOR TO STARTING
- 4. WORK AREAS SHALL BE LIMITED TO A MAXIMUM OF 5 INTERSECTIONS AND 5 CONNECTING BLOCKS AT ONE TIME. WORK SHALL BE SCHEDULED TO MINIMIZE DISRUPTION AND CONTINUE OPERATIONS TO A SMALL AREA.
- THE CONTRACTOR SHALL REVIEW HIS OPERATION PRACTICES AND PROCEDURES ON A DAILY BASIS TO EXPEDITE THE WORK AND CLEAR THE RIGHT-OF-WAY AS SOON AS POSSIBLE.
- 6. THE CONTRACTOR SHALL PREPARE A DETAILED CRITICAL PATH PROJECT SCHEDULE FOR THE PROJECT BEFORE BEGINNING CONSTRUCTION. THIS SCHEDULE SHALL BE SUBMITTED TO THE PROJECT MANAGER FOR REVIEW, COMMENTS, AND APPROVAL. THE SCHEDULE WILL BE USED FOR ESTABLISHING MAJOR CONSTRUCTION OPERATIONS AND FOR DETERMINING THE PROGRESS OF THE WORK. SHOULD IT BECOME APPARENT TO THE PROJECT MANAGER OR THE CONTRACTOR THAT THE CONTRACTOR WILL NOT BE ABLE TO MEET THE REQUIREMENTS OF THE SCHEDULE, THE CONTRACTOR SHALL SUBMIT A REVISED SCHEDULE REFLECTING THE ACTUAL AUTHORIZED TIME LEFT FOR REVIEW AND APPROVAL. REQUESTS FOR TIME EXTENSIONS SUBMITTED BY THE CONTRACTOR WILL BE COMPARED TO THE CRITICAL PATH AND APPROVED OR DENIED ON THIS BASIS. THE CONTRACTOR SHALL UPDATE THE SCHEDULE MONTHLY AND SUBMIT WITH THE MONTHLY PAYMENT REQUESTS.
- 7. THE CONTRACTOR'S COST TO COMPLY WITH THE "SPECIAL CITY TRAFFIC CONTROL REQUIREMENTS" INCLUDING, BUT NOT LIMITED TO, ADDITIONAL COORDINATION, PREPARATION OF CRITICAL PATH PROJECT SCHEDULE, SCHEDULING OF WORK, WORKING DURING OFF HOURS, PLATING, PATCHING, USE OF HIGH-EARLY STRENGTH CONCRETE, REMOVE AND RESETTING OF TRAFFIC CONTROL DEVICES, ETC. SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 019.010 CONSTRUCTION TRAFFIC CONTROL AND BARRICADING.
- ONLY SINGLE LANE CLOSURES WILL BE ALLOWED FOR CONSTRUCTION OF THIS PROJECT.
- THE CONTRACTOR SHALL WORK CONTINUOUSLY 24-HOURS PER DAY, WHEN TRAFFIC LANES ARE CLOSED TO TRAFFIC UNLESS THE WORK VIOLATES THE CITY'S NOISE ORDINANCE.
- 10. IF THE CONTRACTOR IS NOT ALLOWED TO WORK AT NIGHT DUE TO NOISE ORDINANCE VIOLATIONS, THE CONTRACTOR SHALL OPEN ALL TRAFFIC LANES TO TRAFFIC WITH THE PROPER USE OF TRENCH PLATES.
- CONTRACTOR IS REQUIRED TO SEQUENCE TRAFFIC CONTROL TO KEEP ACCESS FOR PEDESTRIANS OPEN ON 3 LEGS OF EACH SIGNALIZED INTERSECTION AT ALL TIMES.
- 12. ALL TRAFFIC CONTROL WILL NEED TO SAFELY ACCOMMODATE BICYCLES THROUGHOUT THE PROJECT LIMITS. BIKE LANES SHALL REMAIN OPEN AT ALL TIMES

MISCELLANEOUS NOTES:

- ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA CFR 1926.650 SUBPART P.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNING UNTIL PROJECT HAS BEEN ACCEPTED BY THE COA.
- THE CONTRACTOR SHALL ASSIST THE ENGINEER IN THE CONSTRUCTION OF AS-BUILT DRAWINGS.
- 4. TWO WEEKS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHOULD NOTIFY THE TRANSIT DEPARTMENT OF ANY IMPACT THE PROPOSED PROJECT WILL HAVE ON THE TRANSIT SYSTEM SUCH AS CAUSING A DETOUR, OR CAUSE THE CLOSING OR RELOCATION OF A BUS STOP. THE CONTACT PERSON IS DOUGLAS GOFF, OFFICE PHONE (505)-206-0151, AND E-MAIL DGOFF@CABQ.GOV.
- CONTRACTOR SHALL USE THE MANUFACTURED SUPPLIED CONNECTORS FOR THE INSTALLATION OF ALL CCTV CAMERAS.

CITY OF ALBUQUERQUE ENVIRONMENTAL REQUIREMENTS

REPORTING CLEANUP AND SPILLS:

- a. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPORTING AND CLEANUP OF SPILLS WHICH ARE ASSOCIATED WITH PROJECT CONSTRUCTION AND SHALL REPORT AND RESPOND TO SPILLS OF HAZARDOUS MATERIALS SUCH AS GASOLINE, DIESEL, MOTOR OILS, SOLVENTS, CHEMICALS, TOXIC AND CORROSIVE SUBSTANCES, AND OTHER MATERIALS WHICH MAY BE A THREAT TO PUBLIC HEALTH OR THE ENVIRONMENT
- b. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING PAST SPILLS ENCOUNTERED DURING CONSTRUCTION AND OF CURRENT SPILLS NOT ASSOCIATED WITH CONSTRUCTION.
- REPORTS SHALL BE MADE IMMEDIATELY TO THE PROJECT MANAGER, (OR TO THE PROPERTY OWNER).
- d. ANY UNREPORTED SPILLS IDENTIFIED AFTER CONSTRUCTION AND ASSOCIATED WITH THE PROJECT CONSTRUCTION SHALL BE CLEANED UP BY THE CONTRACTOR IN ACCORDANCE WITH THE CONTRACT.
- e. THE CONTRACTOR SHALL BEAR THE FULL COST OF CLEANUP OF SUCH UNREPORTED SPILLS.

2. NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEMS:

- THE CONTRACTOR SHALL COMPLY WITH ALL REGULATIONS OF THE U.S. ENVIRONMENTAL PROTECTION AGENCY, INCLUDING THE NPDES PROGRAM AGENCY. FOR INFORMATION CONTACT THE HYDROLOGY DEPARTMENT AT 1505) 768-2778
- b. THE CONTRACTOR IS REQUIRED TO PROVIDE PROTECTION AROUND ALL DROP INLETS DURING CONSTRUCTION.

AIR QUALITY:

THE AIR POLLUTION CONTROL REGULATIONS OF THE ALBUQUERQUE BERNALILLO COUNTY AIR QUALITY CONTROL BOARD LIMIT EMISSION OF PARTICULATE MATTER AND THE USE OF CUT-BACK ASPHALT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CLARIFY THESE RESTRICTIONS WITH THE ENVIRONMENTAL HEALTH DEPARTMENT PRIOR TO SUBMITTAL OF BIDS TO AVOID CONFLICT WITH THE REGULATIONS, CALL THE ENVIRONMENTAL HEALTH DEPARTMENT AT (505) 768-2638.

4. MONITORING FOR PETROLEUM IMPACTED SITES:

- C. THE ENVIRONMENTAL DOCUMENTS AND ASSOCIATED PROJECT COMMITMENTS REQUIRE MONITORING FOR VOC'S AT EIGHT (8) PROJECT SITES (SEE SHEET 6).
- d. THE CONTRACTOR SHALL PROVIDE AN APPROVED ENVIRONMENTAL CONSULTANT TO PERFORM THE TARGETED ENVIRONMENTAL CONSTRUCTION MONITORING.
- e. ENVIRONMENTAL CONSTRUCTION MONITORING SHALL BE INCIDENTAL TO BID ITEM 2 AND NO FURTHER PAYMENT SHALL BE MADE.

THE CONTRACTOR SUPPLIED ENVIRONMENTAL CONSULTANT PERFORMING CONSTRUCTION MONITORING SHALL:

- BE FAMILIAR WITH NEW MEXICO ENVIRONMENTAL DEPARTMENT (NMED) UNDERGROUND STORAGE TANKS BUREAU (USTB) REGULATIONS AND REQUIREMENTS.
- BE FAMILIAR WITH THE OPERATION OF PHOTO-IONIZATION DETECTOR (PID) OR FLAME IONIZATION DETECTOR (FID) EQUIPMENT, AND
- E. BE TRAINED AS A HAZARDOUS MATERIALS SITE WORKER HAVING SUCCESSFULLY COMPLETED AT LEAST THE 40 HOUR COURSE MANDATED BY OSHA REGULATIONS 1910.120. THE CITY OR THE ENVIRONMENTAL CONSULTANT SHALL USE A PID OR FID CALIBRATED TO 100 PPM ISOBUTYLENE TO SCREEN SOIL SAMPLES FOR HYDROCARBON IMPACTS.
- d. THE FIELD SCREENING METHODOLOGY SHALL BE THE JAR HEADSPACE METHOD CODIFIED IN THE NMED USTB REGULATIONS, APPENDIX C.
- ALL WASTE MANIFESTS SHALL BE SIGNED BY EITHER A REPRESENTATIVE OF THE CITY OR THE ENVIRONMENTAL CONSULTANT WITH EXPRESS WRITTEN CONSENT OF THE CITY. COSTS FOR HANDLING AND DISPOSAL OF IMPACTED SOILS WILL BE APPROVED AS NEEDED BY THE CITY. NO EXPENDITURES FOR ASSESSMENT, CLEANUP OR DISPOSAL WILL BE INCURRED WITHOUT PRIOR APPROVAL BY THE CITY.

5. NOISE:

THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT CITY AND COUNTY ORDINANCES PARTICULARLY RELATIVE TO NOISE. THE CITY PERMIT REVIEW ENGINEER MAY BE CONTACTED AT (505) 768-7637 FOR MORE INFORMATION.





| JQUERQUE CIPAL DEVELOPMENT CIVISION PERATIONAL IMPROVEMENTS OF 2 | | AS B | CONTRAC | WORK STAKED BY | INSPECTOR': ACCEPTANC | VERIFICATION | DRAWINGS | MICRO. | RECORDE | ON | |
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TITLE:

Design Review Committee

A300846 (6036.03)

DEPARTMENT OF MU

GENERAL NOTES

City Engineer Appr

EAST CENTRAL AVENUE

ENGINEERI

ENVIRONMENTAL COMMITMENTS CN A300846

THE CONTRACTOR SHALL REFER TO SECTION 107 OF THE 2019 EDITION OF THE STANDARD SPECIFICATIONS, MAKING SPECIAL NOTE OF SUB-SECTION 107.14: CONTRACTOR'S RESPONSIBILITIES FOR ENVIRONMENTAL AND CULTURAL RESOURCE PROTECTION.

NO ADDITIONAL PROJECT SPECIFIC ENVIRONMENTAL REQUIREMENTS APPLY

NMDOT ENVIRONMENTAL BUREAU MANAGER





TITLE:

City Project No. A300846 (6036.03)

| | | | 1 | AS BUILT II | CONTRACTOR | WORK STAKED BY | ACCEPTANCE BY | VERIFICATION BY | DRAWINGS CORRECTED BY | MICRO-FILM | RECORDED BY | NO. | |
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| sign Review Committee | | Zone Mar K-18, K-19, L21, | No. | | | heet | | | | Of | o. / Day / | | |
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ENVIRONMENTAL COMMITMENTS CN A300846

THE CONTRACTOR SHALL REFER TO SECTION 107 OF THE 2019 EDITION OF THE STANDARD SPECIFICATIONS, MAKING SPECIAL NOTE OF SUB-SECTION 107.14: CONTRACTOR'S RESPONSIBILITIES FOR ENVIRONMENTAL AND CULTURAL RESOURCE PROTECTION.

NO ADDITIONAL PROJECT SPECIFIC ENVIRONMENTAL REQUIREMENTS APPLY

NMDOT ENVIRONMENTAL BUREAU MANAGER

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| City Project No. A300846 (6036.03) Zena Mag. k. K | D, L23 | 5 | ned 1 | | 04 | | Of 5 | ; - | 1 | 5 |

TRAFFIC SIGNAL EQUIPMENT REQUIREMENTS

- 1. THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:
 - A. ALL TRAFFIC SIGNAL CONTROLLERS SUPPLIED FOR THIS PROJECT SHALL BE ECONOLITE COBALT. ALL TRAFFIC SIGNAL CONTROLLER CABINETS SUPPLIED FOR THIS PROJECT SHALL BE TYPE "P" OR TYPE "M" CABINETS.
- 2. ALL INDICATIONS OF ALL VEHICLE SIGNAL ASSEMBLIES AND ALL PEDESTRIAN SIGNAL INDICATORS SHALL BE TINTED LED SIGNALS OF A TYPE AND MANUFACTURER APPROVED BY THE CITY OF ALBUQUERQUE. PEDESTRIAN SIGNALS SHALL ALSO INCLUDE "COUNTDOWN" INDICATIONS FOR CLEARANCE TIME.
- 3. ALL SIGNAL ASSEMBLIES, PEDESTRIAN SIGNALS, PEDESTRIAN PUSH BUTTONS, AND FITTINGS SHALL COMPLY WITH THE CITY OF ALBUQUERQUE TYPE AND COLOR (BLACK) FINISH REQUIREMENTS.
- 4. MAINTAIN A MINIMUM OF 48" WIDE PEDESTRIAN SIDEWALK WIDTH WHEN TRAFFIC SIGNAL FOUIPMENT PLACED ADJACENT TO PEDESTRIAN PATHWAY

TRAFFIC SIGNAL INCIDENTAL ITEMS*

- 1. MAINTENANCE OF "AS-BUILT" PLANS. THE CONTRACTOR SHALL MAINTAIN AN UP-TO-DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THESE PLANS SHALL BE KEPT CURRENT, WITHIN TWO WEEKS. AT ALL TIMES AND SHALL BE SUBJECT TO REVIEW BY THE PROJECT MANAGER THROUGHOUT THE PROJECT AND WILL BE REVIEWED BY THE PROJECT MANAGER FOR ACCURACY AND COMPLETENESS AT LEAST ONCE EVERY 30 DAYS. THE FINAL AS-BUILT PLANS SHALL BE SUBMITTED TO THE PROJECT MANAGER PRIOR TO FINAL PAYMENT. THIS SHALL BE INCIDENTAL TO BID ITEM 19.010.
- 2. MINOR GROUNDING IMPROVEMENT FOR CONTROL CABINETS. THE EXISTING POWER SERVICE AND GROUNDING AT EACH LOCATION SCHEDULED FOR CONTROLLER CABINET REPLACEMENT SHALL BE REVIEWED BY THE CONTRACTOR AND THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING DEPARTMENT. THIS SHALL BE INCIDENTAL TO BID ITEM 428.210.
- 3. CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING OUT ANY CONDUITS THAT NEW WIRE WILL BE PULLED THROUGH. THIS SHALL BE INCIDENTAL TO BID ITEMS 426.003.
- 4. REMOVAL OF EXISTING CONDUCTORS OR OTHER SIGNAL EQUIPMENT FOR INSTALLATION OF NEW SIGNAL EQUIPMENTS EXCEPT AS NOTED IN PLANS. THIS SHALL BE INCIDENTAL TO BID ITEMS 427,003.
- 5. IN-KIND REPLACEMENT OF CABLES USED TO PULL NEW CABLES IN EXISTING CONDUITS. ANY EXISTING CABLES (INCLUDING SINGLE CONDUCTORS, NEUTRALS MULTI CONDUCTORS AND LOOP LEAD-IN CABLES) USED TO PULL NEW INTERCONNECT OR PREEMPTION CABLES SHALL BE REPLACED IN-KIND WITH NEW CABLE. WHERE EXISTING CONDUIT FILLS EXCEED 60% NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS FOR DETERMINATION WHETHER OR NOT ALL CABLES ARE TO BE REPLACED AND/OR ADDITIONAL CONDUITS ARE TO BE INSTALLED. THIS SHALL BE INCIDENTAL TO BID ITEMS 426,003.
- 6. ANY MONUMENTS DISTURBED OR DESTROYED SHALL BE REPLACED BY A NM LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE. CITY SURVEYOR SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY MONUMENT PLACEMENT. THIS SHALL BE INCIDENTAL TO BID ITEM 435.831.
- 7. CABLE TESTING AND DIAGRAMS. THIS SHALL BE INCIDENTAL TO BID ITEMS 426.003
- 8. DESIGN, MATERIALS, INSTALLATION, AND REMOVAL OF SAFETY BARRIER FOR SHIELDING EQUIPMENT OR MATERIAL. THIS SHALL BE INCIDENTAL TO BID ITEMS 19.010.
- 9. APPRISING PUBLIC THROUGH THE LOCAL NEWS MEDIA. THIS SHALL BE INCIDENTAL TO BID
- 10. REMOVAL, SALVAGE, AND TRANSPORTATION OF EXISTING SIGNAL EQUIPMENT TO THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING YARD ON PINO ROAD NE. THIS SHALL BE INCIDENTAL TO
- 11. OFF-DUTY POLICE OFFICER FOR TRAFFIC CONTROL. THIS SHALL BE INCIDENTAL TO BID ITEM
- 12. CAMERA MOUNTING HEIGHT ADJUSTMENT ARM. THIS SHALL BE INCIDENTAL TO BID ITEM

* ITEMS LISTED ARE ONLY A GENERAL DESCRIPTION OF THE REQUIRED WORK AND MATERIALS, AND MAY NOT BE COMPLETE. THIS DOES NOT INCLUDE ANY INCIDENTAL WORK OR MATERIALS REQUIRED BY THE SPECIAL PROVISIONS SERIALS (STANDARD DETAILS), SUPPLEMENTAL SPECIFICATIONS, OR THE STANDARD SPECIFICATIONS.

TRAFFIC INCIDENTAL ITEMS CONTINUED

- ALL PATCH CABLES BETWEEN NETWORK SWITCHES AND TRAFFIC SIGNAL CABINET EQUIPMENT, INCLUDING BUT NOT LIMITED TO TRAFFIC SIGNAL CONTROLLER, CONFLICT MONITOR OPTICALDETECTOR CARDS, VEHICLE DETECTOR CARDS. THIS SHALL BE INCIDENTAL TO BID
- ANY AND ALL SOFTWARE SETUP AND CONFIGURATION FOR MANAGED FIELD ETHERNET SWITCHES, OPTICAL DETECTORS, DUAL RADAR/VIDEO DETECTION SYSTEMS, DSRC RADIO/BLUETOOTH DEVICES, ON-BOARD UNITS, CCTV SHALL BE INCIDENTAL TO BID ITEMS
- CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING EXISTING LOOP DETECTION EQUIPMENT AND WIRING IS NOT DAMAGED DURING CABINET INSTALLATIONS. THIS SHALL BE INCIDENTAL TO

TRAFFIC SIGNAL INTERCONNECT REQUIREMENTS

- 1. PER PLAN, EXISTING COPPER OR FIBER OPTIC INTERCONNECT SHALL BE MAINTAINED OR PROVIDED FOR SIGNAL CONSTRUCTION. THIS SHALL INCLUDE BUT NOT LIMITED TO INSTALLING SPLICE CABINETS, SPLICE VAULTS, SPLICE CLOSURES, INTERCONNECT CONDUIT AND CABLE, CCTV CAMERA INSTALLATION, AND APPROPRIATE SIGNAL CONTROLLER INTERFACES (FIELD SWITCH, TERMINAL SERVERS ETC.).
- 2. SIGNAL CONDUCTORS SHALL NOT SHARE CONDUIT OR PULL BOXES WITH FIBER OPTIC COMMUNICATIONS CABLE. FIBER OPTIC CABLE SHALL BE INSTALLED IN SEPARATE CONDUIT AND
- 3. SPLICING OF COMMUNICATION CABLE WILL NOT BE PERMITTED IN PULL BOXES. SPLICING OF COMMUNICATION CABLE (CONNECTIONS) WILL BE PERMITTED ONLY AT SPLICE CABINETS. SPLICE VAULTS WITH SPLICE CLOSURES, OR CONTROLLER CABINETS WITH SPLICE BLOCKS.
- 4. FOR CONDUITS CONTAINING ONLY LOW VOLTAGE COMMUNICATION CABLES OR FIBER OPTIC CABLE. AN INSULATED SINGLE CONDUCTOR COPPER #6 AWG WILL BE USED AS A TRACER WIRE.





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| CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION | | | | | | (S | | DESIGN | DATE | | DATE 6/2019 |
| DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION | | | | | | DA | | | ΒY | ВУ | CHECKED BY CS |
| EAST CENTRAL AVENUE OPERATIONAL IMPROVEMENTS TRAFFIC SIGNAL REQUIREMENTS AND INCIDENTAL ITEMS Review Committee City Engineer Approval 50 WALFRICK. WALFRIC | | | | | | | _ | | | | |
| City Engineer Approval 5 | DEPARTMENT OF ALBUQUE DEPARTMENT OF MUNICIPAL ENGINEERING DIVI EAST CENTRAL AVENUE OPERA TRAFFIC SIGNAL REQUIREMENTS | DEV ISION ATION | AL IN | IM | PR | V0V | | ГЕМ | S | IYı. | |

Design Review Committee City Engineer A

A300846 (6036.03)

TITLE:

QUANTITIES

| Bid Item # | Item ID No. | Item Description | Unit | Est. Qty | INSTALLED QTY |
|---------------|----------------|--|------|----------|-----------------------------|
| 1 | 19.010 | CONSTRUCTION TRAFFIC CONTROL & BARRICADING | LS | 1.00 | } _f uuuuuu |
| _2 | 426,000 | SINGLE CONDUCTOR, #6, CIP. | LF | 2400.00 | 0 |
| -3 | 426,010 | MULTI CONDUCTOR CABLE, #5, OIP. | LF | 1200.00 | 0 |
| 4 | 426,011 | MULTI CONDUCTOR CABLE, #7, OIP. | LF | 1200.00 | 0 |
| 5 | 426,014 | MULTI CONDUCTOR CABLE, #20, CIP. | LF | 2400.00 | Ö |
| 6 | 428.102 | REMOVE AND SALVAGE CCTV (PTZ) CAMERA, CIP | EA | 8.00 | $\overset{\bullet}{\omega}$ |
| 7 | 428.210 | INSTALL CCTV (PTZ) CAMERA INCLUDING MOUNT, CIP | EA | 9.00 | 1 |
| 8 | 429.010 | TRAFFIC ACTUATED CONTROLLER COBALT W/ CVCP | EA | 10.00 | 1 |
| 9 | 429,300 | REMOVE AND REPLACE TRAFFIC SIGNAL CONTROLLER CABINET TYPE 'P', CIP | EA | 9.00 | |
| 10 | 435.702 | MANAGED FIELD ETHERNET SWITCH (FS) | EA | 9.00 | |
| 11 | 435.831 | DSRC RADIO/BLUETOOTH, CIP WITH CABLING | EA | 10.00 | 1 |
| 12 | 435,835 | WAVETRONIX ADVANCE RADAR VEHICLE DETECTION SYSTEM (PER APPROACH) CIP | EA | 18,00 | 1 |

KEY NOTE CALL OUTS

- 1 EXISTING CONDUIT
- 2 EXISTING PULL BOX OR MANHOLE
- 3 EXISTING TRAFFIC SIGNAL CABINET
- (4) EXISTING TRAFFIC SIGNAL POLE
- (5) EXISTING SPLICE VAULT
- (6) EXISTING CCTV CAMERA
- (7) EXISTING EQUIPMENT
- 8 INSTALL EQUIPMENT, SEE SHEET 5 02
- INSTALL CCTV CAMERA, SEE SHEET 5 03
- 10 INSTALL CCTV CABLING

- INSTALL ADVANCE RADAR DETECTION EQUIPMENT
- INSTALL ADVANCE RADAR DETECTION CABLING
- (13) INSTALL TRAFFIC SIGNAL CABINET, SEE SHEET 5 02
- 14 INSTALL DSRC RADIO / BLUE TOOTH EQUIPMENT
- (15) INSTALL DSRC RADIO CABLING
- (16) EXISTING CCTV POLE
- 17) REMOVE & SALVAGE EXISTING CCTV

LEGEND:

| EXISTING | NEW | ITEM NAME |
|-----------------|-----|---|
| sc | | SPLICE CABINET |
| | | TRAFFIC SIGNAL CABINET |
| V | | SPLICE VAULT |
| III | | PULLBOX |
| | | LARGE ELECTRIC POLE |
| IMI | | POWER METER PEDESTAL |
| <-O , | | TRAFFIC SIGNAL PEDESTAL PO |
| ₹ \ | | STANDARD WITH MASTARM, TRAFFIC SIGNAL, AND OPTICAL DETECTOR |
| Q | | PEDESTAL PUSH BUTTON |
| ₆ \$ | | PEDESTAL SIGNAL |
| | | SIGNAL OR SERVICE CONDUIT |
| | | INTERCONNECT CONDUIT |
| | | NEW CABLING AND/OR WIRING |
| | | |

RECORD DRAWING

Date <u>Sept. 2021</u>

These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.



| | | DE | PARTMENT OF | F ALBUC MUNICIF EERING [| AL D | EVELOPMENT | |
|--------|--------|-----------|---------------|--------------------------------|--------------|-----------------|----------|
| TITLE: | | EAST | CENTRAL AVE | | | ONAL IMPROVE | MENTS |
| Design | Review | Committee | City Engineer | Approval | esign Update | Mo. / Day / Yr. | Mo. / De |

ITIES & LEGEND City Project No. A300846 (6036.03) | Zone Map No. | Sheet | Of | Sheet | 121, L22 | 5 - 01 | 5 - 15 |

06/19/2019



| | | | | SIGNAL CABINET | DEDI ACEMENT | |
|--------|--------|-------------|------------------|----------------|--------------|---|
| | | | | SIGNAL CABINET | REPLACEMENT | |
| CAB. # | SHEET# | CORRIDOR | LOCATION | CORNER | EX. CABINET | COMMENT |
| 1 | 5-05 | CENTRAL AVE | LOUISIANA BLVD | NORTHWEST | Р | NO INSTALLATION |
| 2 | 5-06 | CENTRAL AVE | PENNSYLVANIA ST | NORTHWEST | Р | REMOVE AND REPLACE EXISTING CABINET WITH NEW TYPE 'P' CABINET |
| 3 | 5-07 | CENTRAL AVE | WYOMING BLVD | SOUTHEAST | Р | REMOVE AND REPLACE EXISTING CABINET WITH NEW TYPE 'P' CABINET |
| 4 | 5-08 | CENTRAL AVE | ZUNI RD | NORTHEAST | Р | NO INSTALLATION |
| 5 | 5-09 | CENTRAL AVE | MOON ST | SOUTHEAST | Р | REMOVE AND REPLACE EXISTING CABINET WITH NEW TYPE 'P' CABINET |
| 6 | 5-10 | CENTRAL AVE | EUBANK BLVD | SOUTHEAST | Р | REMOVE AND REPLACE EXISTING CABINET WITH NEW TYPE 'P' CABINET |
| 7 | 5-11 | CENTRAL AVE | ELIZABETH ST | SOUTHEAST | Р | REMOVE AND REPLACE EXISTING CABINET WITH NEW TYPE 'P' CABINET |
| 8 | 5-12 | CENTRAL AVE | JUAN TABO BLVD | NORTHWEST | Р | REMOVE AND REPLACE EXISTING CABINET WITH NEW TYPE 'P' CABINET |
| 9 | 5-13 | CENTRAL AVE | WESTERN SKIES DR | SOUTHEAST | Р | REMOVE AND REPLACE EXISTING CABINET WITH NEW TYPE 'P' CABINET |
| 10 | 5-14 | CENTRAL AVE | DORADO PL | SOUTHEAST | Р | REMOVE AND REPLACE EXISTING CABINET WITH NEW TYPE 'P' CABINET |
| 11 | 5-15 | CENTRAL AVE | TRAMWAY BLVD | NORTHWEST | Р | REMOVE AND REPLACE EXISTING CABINET WITH NEW TYPE 'P' CABINET |

| | | INDEX OF COMMUNICATION EQUIPME | ENT | | |
|-------|-------------|--------------------------------|--------|------------|------------|
| | | | FIELD | SIGNAL | |
| SHEET | CORRIDOR | LOCATION | SWITCH | CONTROLLER | DSRC RADIO |
| 5-05 | CENTRAL AVE | LOUISIANA BLVD | 0 | 1 | 1 |
| 5-06 | CENTRAL AVE | PENNSYLVANIA ST | 1 | 1 | 1 |
| 5-07 | CENTRAL AVE | WYOMING BLVD | 1 | 1 | 1 |
| 5-08 | CENTRAL AVE | ZUNI RD | 0 | 0 | 0 |
| 5-09 | CENTRAL AVE | MOON ST | 1 | 1 | 1 |
| 5-10 | CENTRAL AVE | EUBANK BLVD | 1 | 1 | 1 |
| 5-11 | CENTRAL AVE | ELIZABETH ST | 1 | 1 | 1 |
| 5-12 | CENTRAL AVE | JUAN TABO BLVD | 1 | 1 | 1 |
| 5-13 | CENTRAL AVE | WESTERN SKIES DR | 1 | 1 | 1 . |
| 5-14 | CENTRAL AVE | DORADO PL | 1 | 1 | 1 |
| 5-15 | CENTRAL AVE | TRAMWAY BLVD | 1 | 1 | 1 |
| | | TOTALS | 9 | 10 | 10 |

| | | | CCTV LOCATIONS | | | |
|-------|-------|-------------|------------------|-----------|--------------------|----------------|
| CCTV# | SHEET | CORRIDOR | LOCATION | SIDE | MOUNT/POLE# | EXTENSION |
| 1 | 5-05 | CENTRAL AVE | . LOUISIANA BLVD | NORTHWEST | EXISTING CCTV - PR | OTECT IN PLACE |
| 2 | 5-06 | CENTRAL AVE | PENNSYLVANIA ST | SOUTHEAST | MASTARM/POLE | YES |
| 3 | 5-07 | CENTRAL AVE | WYOMING BLVD | NORTHEAST | EXIST TYPE III | YES |
| 4 | 5-08 | CENTRAL AVE | ZUNI RD | NORTHWEST | EXISTING CCTV - PR | OTECT IN PLACE |
| 5 | 5-09 | CENTRAL AVE | MOON ST | SOUTHEAST | MASTARM/POLE | YES |
| 6 | 5-10 | CENTRAL AVE | EUBANK BLVD | SOUTHEAST | EXIST TYPE III | YES |
| 7 | 5-11 | CENTRAL AVE | ELIZABETH ST | SOUTHEAST | MASTARM/POLE | YES |
| 8 | 5-12 | CENTRAL AVE | JUAN TABO BLVD | NORTHWEST | EXIST TYPE III | YES |
| 9 | 5-13 | CENTRAL AVE | WESTERN SKIES DR | NORTHEAST | EXIST TYPE III | YES |
| 10 | 5-14 | CENTRAL AVE | DORADO PL | NORTHEAST | MASTARM/POLE | MASTARM/POLE |
| 11 | 5-15 | CENTRAL AVE | TRAMWAY BLVD | NORTHWEST | EXIST TYPE III | YES |

| | | | VEHICLE DETECTION | | |
|-----|-------|-------------|-------------------|-------------------|-------------------|
| VD# | SHEET | CORRIDOR | LOCATION | TYPE OF DETECTION | TRAFFIC DIRECTION |
| 1 | 5-05 | CENTRAL AVE | LOUISIANA BLVD | ADVANCE RADAR | - |
| 2 | 5-06 | CENTRAL AVE | PENNSYLVANIA ST | ADVANCE RADAR | EB, WB |
| 3 | 5-07 | CENTRAL AVE | WYOMING BLVD | ADVANCE RADAR | EB, WB |
| 4 | 5-08 | CENTRAL AVE | ZUNI RD | ADVANCE RADAR | - |
| 5 | 5-09 | CENTRAL AVE | MOON ST | ADVANCE RADAR | EB, WB |
| 6 | 5-10 | CENTRAL AVE | EUBANK BLVD | ADVANCE RADAR | EB, WB |
| 7 | 5-11 | CENTRAL AVE | ELIZABETH ST | ADVANCE RADAR | EB, WB |
| 8 | 5-12 | CENTRAL AVE | JUAN TABO BLVD | ADVANCE RADAR | EB, WB |
| 9 | 5-13 | CENTRAL AVE | WESTERN SKIES DR | ADVANCE RADAR | EB, WB |
| 10 | 5-14 | CENTRAL AVE | DORADO PL | ADVANCE RADAR | EB, WB |
| 11 | 5-15 | CENTRAL AVE | TRAMWAY BLVD | ADVANCE RADAR | EB, WB |

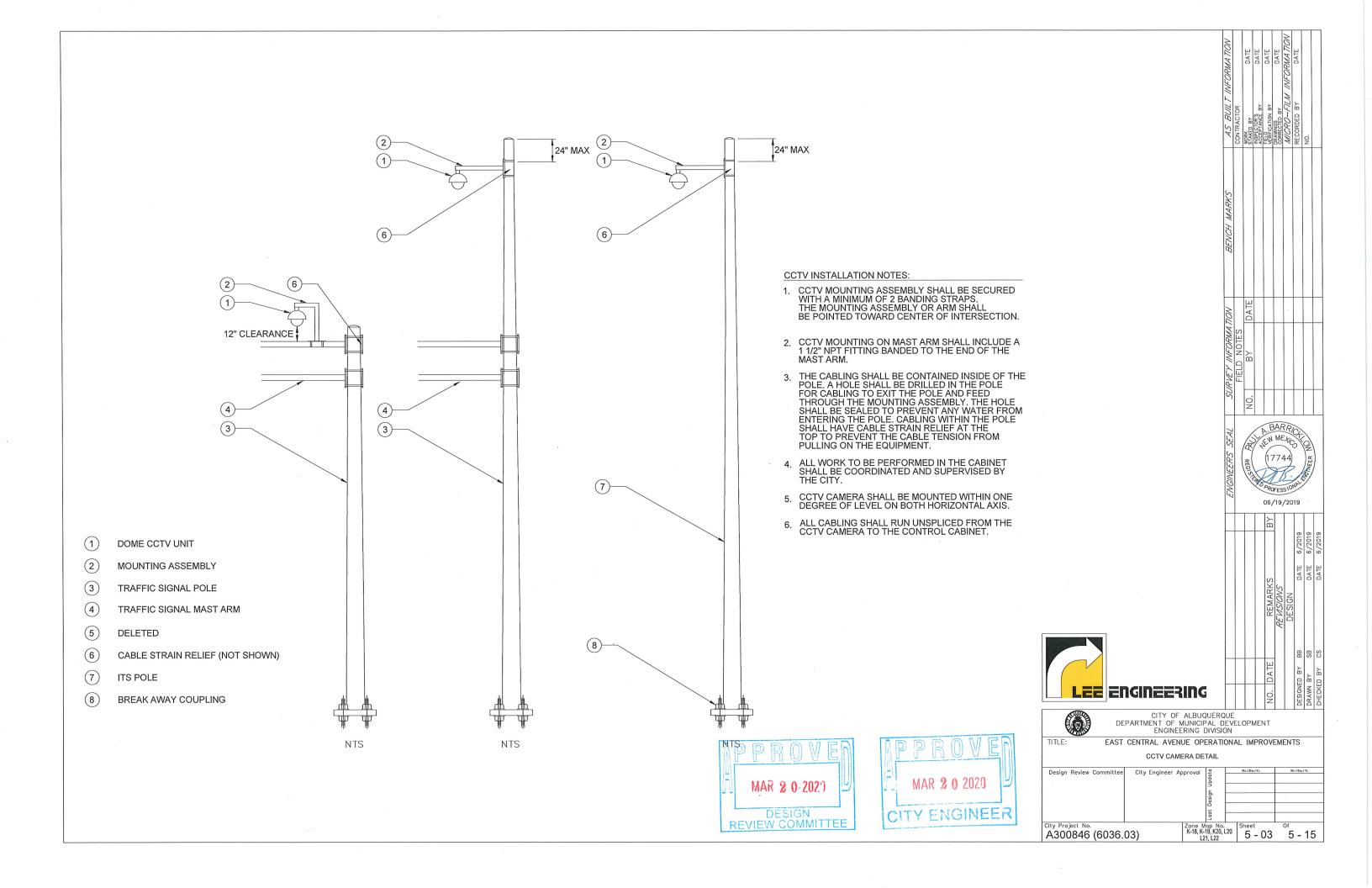


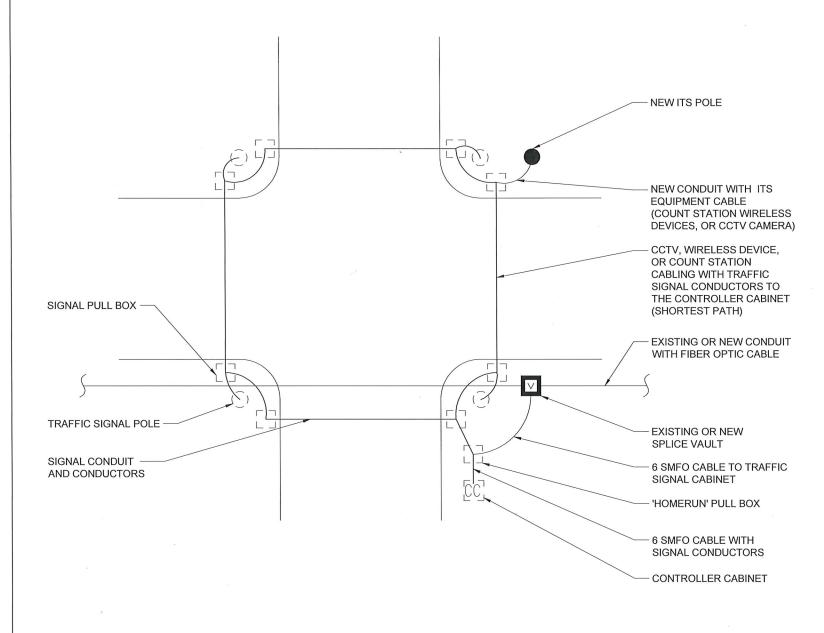


TITLE:

City Project No. A300846 (6036.03)

| | | | NOT NYGOZINI T III IG 2 N | CONTRACTOR | WORK DATE | INSPECTOR'S DATE ACCEPTANCE BY | | CORRECTED BY DATE | M INFOR | RECORDED BY DATE | NO. | |
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| | | | | ENGINEERS SEAL | A REGIST | V. Co | PRO OG/ | TES! | 14) | 1/E | WOINEER NO | |
| | | | | | | | REMARKS | REVISIONS | DESIGN | DATE 6/2019 | DATE 6/2019 | DATE 6/2019 |
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| Design Review Committee | COMMUNICAT City Engineer Ap | | | | Mo. / D | ny I Yr. | | | Me | . I Day I | Yr. | |
| City Project No. A300846 (6036. | 03) | Zone Mar K-18, K-19 L21, | No. , K20, L L22 | 20 | Shee 5 | et - (| 02 | | of 5 | _ | 15 | 5 |





GENERAL NOTES:

THE FOLLOWING NOTES IDENTIFY TYPICAL INSTALLATION INFORMATION FOR ITS EQUIPMENT AROUND THE INTERSECTION TO CONFORM TO CITY STANDARDS FOR ITS INSTALLATION.

ALL INFRATRUCTURE SHALL BE INSTALLED WITHIN THE CITY RIGHT-OF-WAY AND AS SHOWN ON THE PLANS.

UNLESS OTHERWISE NOTED, ALL EXISTING SIGNAL WIRING AND CONDUCTOR SHALL REMAIN IN PLACE.

- SPLICE VAULT:
 A. THE SPLICE VAULT SHALL BE INSTALLED WITHIN THE CITY RIGHT OF WAY WITHIN CLOSE PROXIMITY TO THE INTERSECTION.
 - B. CONTRACTOR SHALL PROVIDE 50 FEET OF CABLE SLACK FOR EACH CABLE ENTERING OR EXISTING THE VAULT.

 C. SEE SPLICE DIAGRAMS FOR FIBER OPTIC CABLE CONNECTIONS.
- CONDUIT AND FIBER TRUNK FIBER CABLE:

 A. WHERE POSSIBLE, THE TRUNK FIBER OPTIC CABLE (96 SMFO OR 24 SMFO) SHOULD NOT BE MIXED WITH THE TRAFFIC SIGNAL CONDUIT AND CONDUCTORS.

 B. IN THE EVENT THAT THE FIBER OPTIC CABLE AND THE TRAFFIC SIGNAL CONDUCTORS EXIST IN THE SAME CONDUIT, THE
 - FIBER OPTIC CABLE SHALL BE CLEARLY LABELED AND IDENTIFIED IN EACH PULL BOX.
 - C. FIBER TRUNK CABLES MAY BE MIXED WITH OTHER ITS EQUIPMENT CABLES (CCTV OR COUNT STATION CABLING) AS SHOWN IN THE DESIGN.
- CONDUIT AND BRANCH FIBER CABLE:

 A. WHERE POSSIBLE, THE 6 SMFO CABLE SHALL BE CONTAINED WITHIN ITS OWN CONDUIT, SEPARATE FROM TRAFFIC SIGNAL CONDUCTORS.
- CONDUCTORS.

 B. LOCATIONS WHERE THIS IS NOT POSSIBLE MAY INCLUDE CONNECTIONS FROM THE 'HOMERUN' TRAFFIC SIGNAL PULL BOX TO THE CONTROLLER CABINET.

 C. IN THE EVENT THAT THE FIBER OPTIC CABLE AND THE TRAFFIC SIGNAL CONDUCTORS EXIST IN THE SAME CONDUIT, THE FIBER OPTIC CABLE SHALL BE CLEARLY LABELED AND IDENTIFIED.
- TRAFFIC SIGNAL POLES:

 A. FIBER OPTIC CABLES SHALL NOT RUN THROUGH THE BASES OF TRAFFIC SIGNAL POLES UNDER ANY CIRCUMSTANCES.

 B. IF IT IS FOUND THAT EXISTING COMMUNICATION CABLE IS ROUTED THROUGH THE TRAFFIC SIGNAL POLE, A DESIGN CHANGE WILL NEED TO BE MADE.

 C. CCTV CAMERA OR WIRELESS COMMUNICATION DEVICES MAY BE MOUNTED TO EXISTING TRAFFIC SIGNAL POLES. CABLES ASSOCIATED WITH THESE DEVICES CAN BE RUN THROUGH THE SIGNAL CONDUIT TO THE CONTROLLER CABINET. THE SIGNAL CONDUIT TO THE CONTROLLER CABINET.
- NEW ITS POLES (CCTV OR COUNT STATION):
 A. NEW ITS POLES SHALL BE INSTALLED AS SHOWN ON THE



| | | | 2 | N.J.Y | DE | | | |
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06/19/2019



CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION

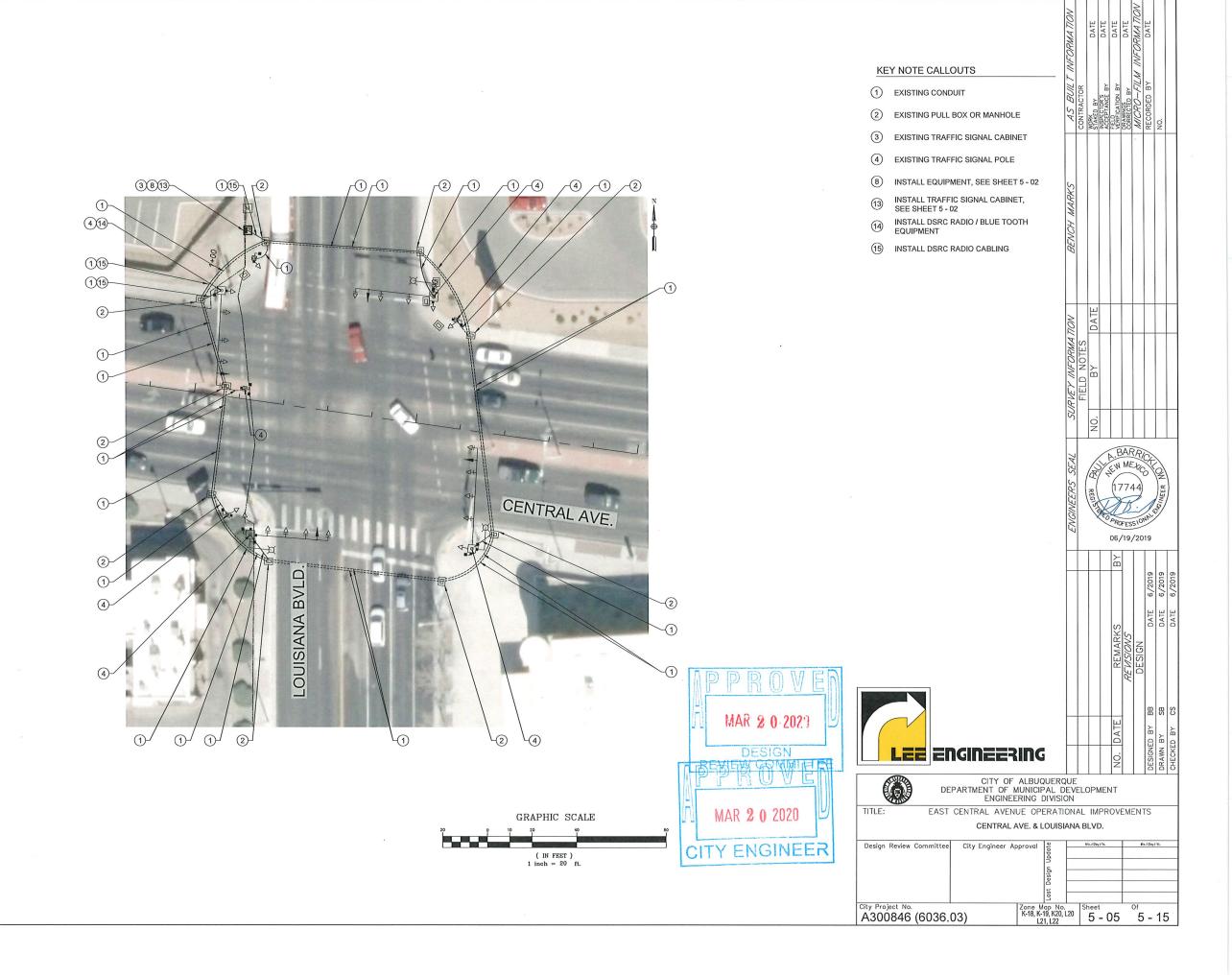
EAST CENTRAL AVENUE OPERATIONAL IMPROVEMENTS

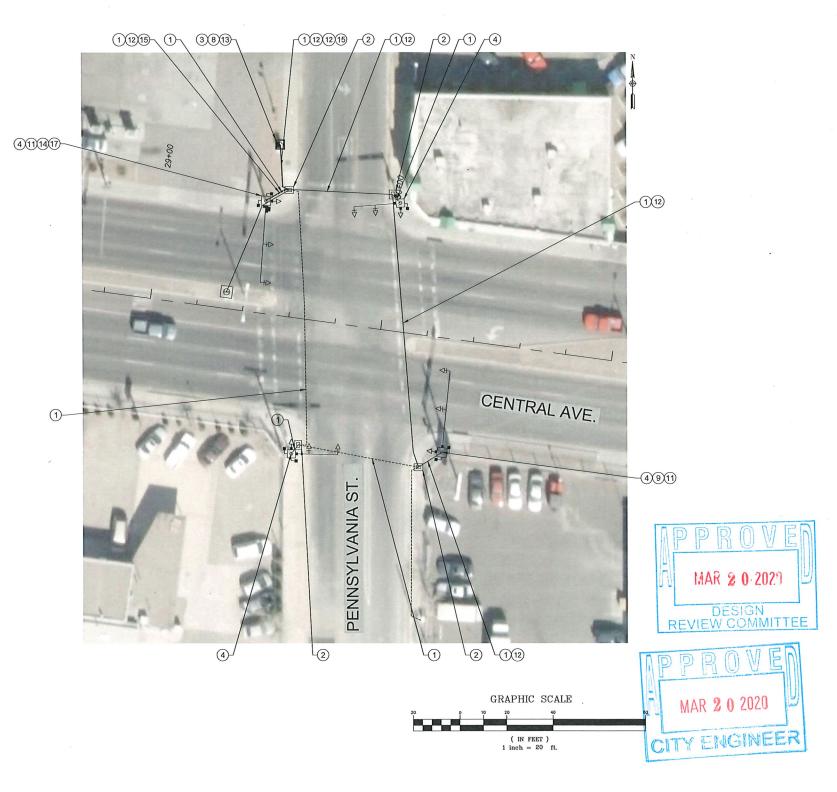
TYPICAL INTERSECTION DETAIL

City Engineer Approval Zone Map No. K-18, K-19, K20, L20 5 - 04 5 - 15 A300846 (6036.03)









| KE' | Y NOTE CALLOUTS | |
|-----|------------------|--|
| 1) | EXISTING CONDUIT | |

- 2 EXISTING PULL BOX OR MANHOLE
- ③ EXISTING TRAFFIC SIGNAL CABINET
- 4 EXISTING TRAFFIC SIGNAL POLE
- 8 INSTALL EQUIPMENT, SEE SHEET 5 02
- 9 INSTALL CCTV CAMERA, SEE SHEET 5 03
- INSTALL ADVANCE RADAR DETECTION EQUIPMENT
- (12) INSTALL ADVANCE RADAR DETECTION CABLING
- (3) INSTALL TRAFFIC SIGNAL CABINET, SEE SHEET 5 - 02
- (14) INSTALL DSRC RADIO / BLUE TOOTH EQUIPMENT
- (15) INSTALL DSRC RADIO CABLING
- 17) REMOVE & SALVAGE EXISTING CCTV

| | AS BUILI | CONTRACTOR | WORK STAKED BY | INSPECTOR'S ACCEPTANCE BY | VERIFICATION BY | DRAWINGS CORRECTED BY | MICRO-FILI | RECORDED BY | NO. | |
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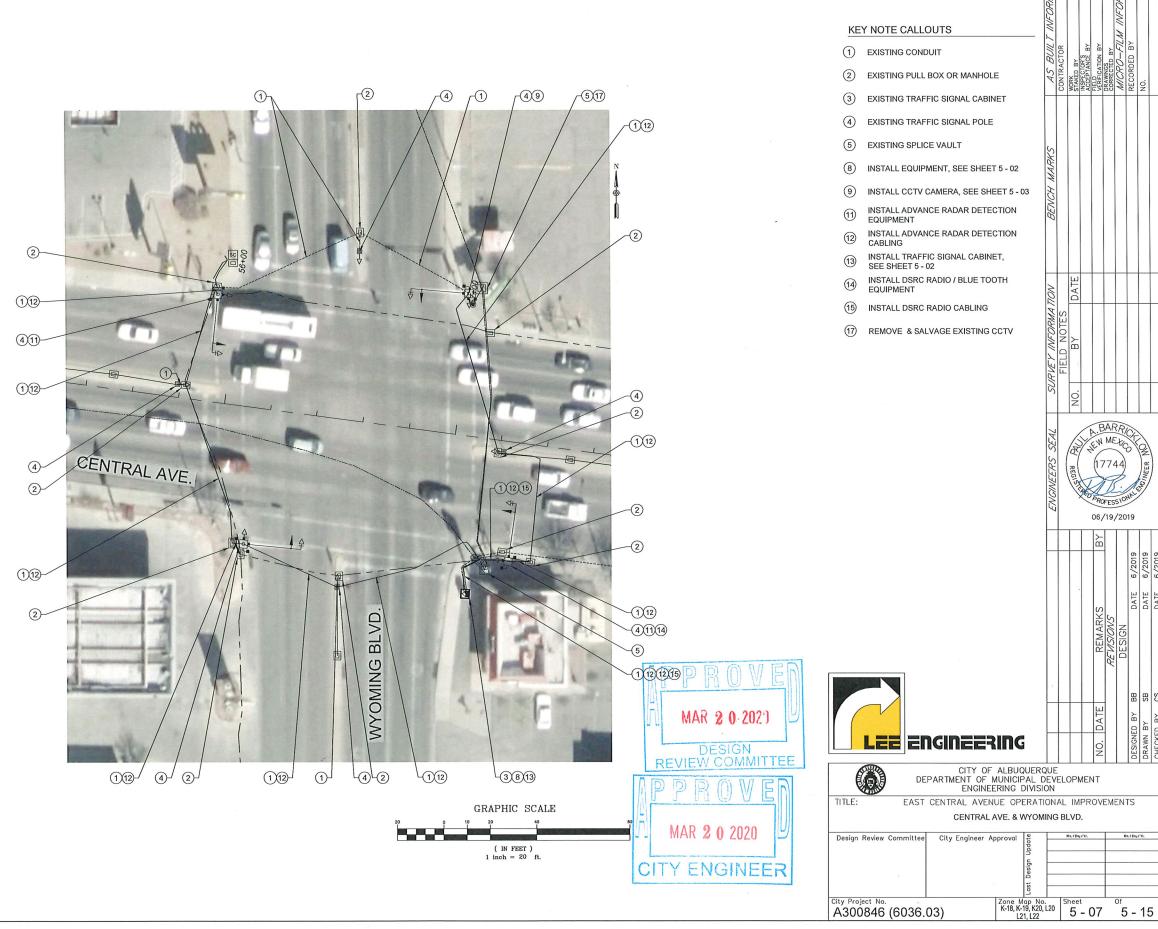


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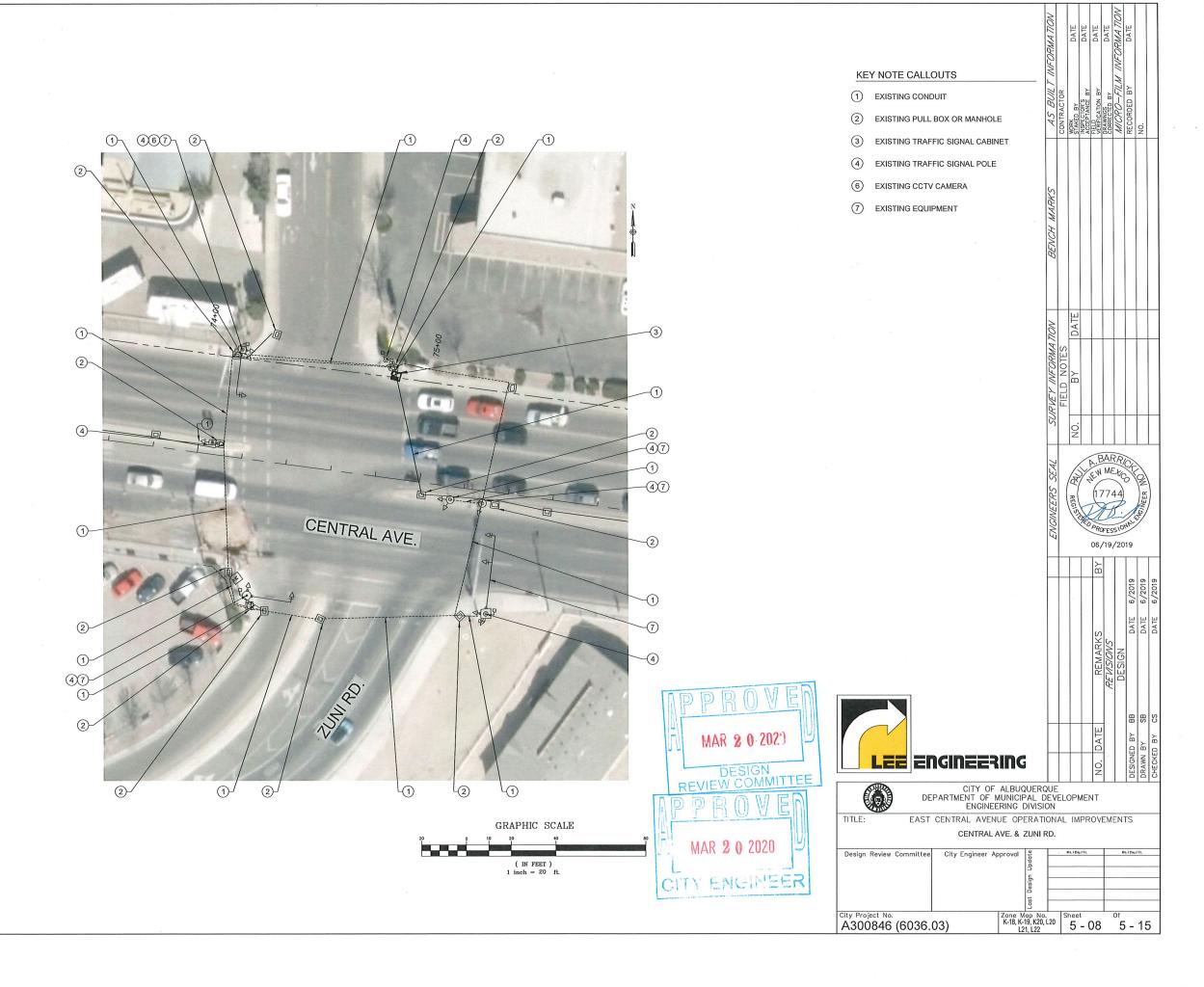
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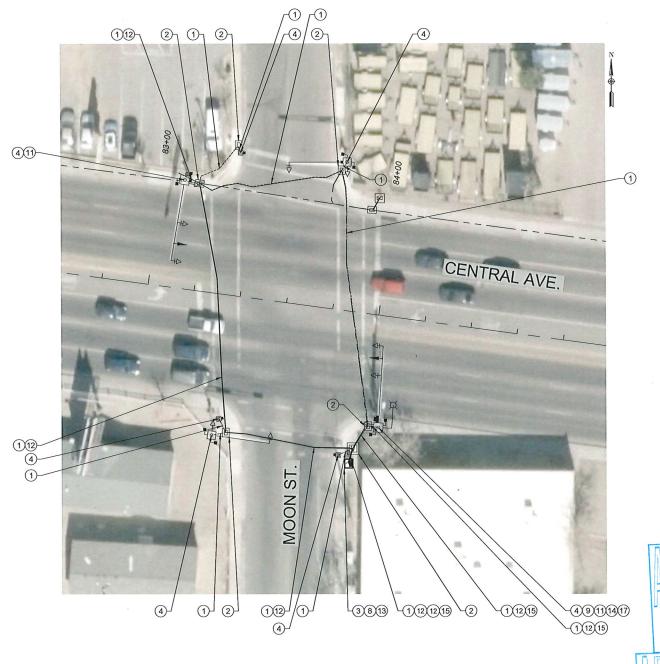
EAST CENTRAL AVENUE OPERATIONAL IMPROVEMENTS

CENTRAL AVE. & PENNSYLVANIA S



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GRAPHIC SCALE

(IN FEET) 1 inch = 20 ft.

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|---|------|---|----------------------|------------|-------------------|---------------------------|-----------------------|-----------------------|--------------|----------|--------|---|
| | | | AS BUILT INFORMATION | | DATE | DATE | DATE | DATE | INFORMA TION | DATE | | |
| | KE' | Y NOTE CALLOUTS | 7 INI | | | | | | < I | | | |
| | 1 | EXISTING CONDUIT | BUIL | CTOR | >- | R'S ICE BY | ION BY | D BY | MICRO-FILM | ED BY | | |
| | 2 | EXISTING PULL BOX OR MANHOLE | AS | CONTRACTOR | WORK STAKED BY | INSPECTOR'S ACCEPTANCE | FIELD VERIFICATION | DRAWINGS CORRECTED | 11CRC | RECORDED | NO. | |
| | 3 | EXISTING TRAFFIC SIGNAL CABINET | | Ö | ≱ß | ZĂ | ES | 200 | 1 | ₩ | z | - |
| | 4 | EXISTING TRAFFIC SIGNAL POLE | | | | | | | | | | |
| | 8 | INSTALL EQUIPMENT, SEE SHEET 5 - 02 | 5 | | | | | | | | | |
| | 9 | INSTALL CCTV CAMERA, SEE SHEET 5 - 03 | 1ARK | | | | | | | | | |
| | 11) | INSTALL ADVANCE RADAR DETECTION EQUIPMENT | BENCH MARKS | | | | | | | | | |
| | 12 | INSTALL ADVANCE RADAR DETECTION CABLING | BEN | | | | | | | | | |
| | (13) | INSTALL TRAFFIC SIGNAL CABINET, SEE SHEET 5 - 02 | | | | | | | | | | |
| | 14) | INSTALL DSRC RADIO / BLUE TOOTH EQUIPMENT | | | | | | | | | | |
| | 15) | INSTALL DSRC RADIO CABLING | 8 | | DATE | | | | | | | |
| | 17) | REMOVE & SALVAGE EXISTING CCTV | SURVEY INFORMATION | S | ٢ | | | | | | | |
| | | | FOR | NOTES | > | | | | | | | |
| | | | W / W | FIELD | ВУ | | | | | | | |
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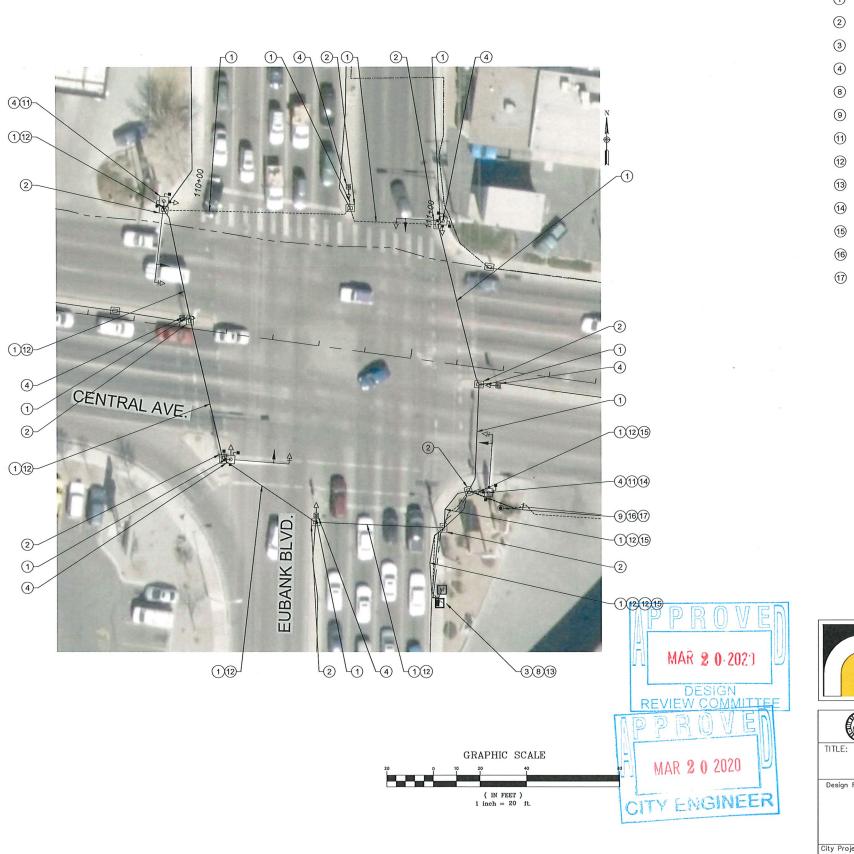


| | CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOP ENGINEERING DIVISION |
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EAST CENTRAL AVENUE OPERATIONAL IMPROVEMENTS CENTRAL AVE. & MOON ST.

City Engineer Approval

City Project No. A300846 (6036.03)



| KE | Y NOTE CALLOUTS |
|----|------------------|
| | EXISTING CONDUIT |

2 EXISTING PULL BOX OR MANHOLE

3 EXISTING TRAFFIC SIGNAL CABINET

4 EXISTING TRAFFIC SIGNAL POLE

INSTALL EQUIPMENT, SEE SHEET 5 - 02

9 INSTALL CCTV CAMERA, SEE SHEET 5 - 03

INSTALL ADVANCE RADAR DETECTION EQUIPMENT

INSTALL ADVANCE RADAR DETECTION CABLING

INSTALL TRAFFIC SIGNAL CABINET, SEE SHEET 5 - 02

INSTALL DSRC RADIO / BLUE TOOTH EQUIPMENT

INSTALL DSRC RADIO CABLING

(16) EXISTING CCTV POLE

17 REMOVE & SALVAGE EXISTING CCTV

06/19/2019 CENTRAL AVE. & EUBANK BLVD.



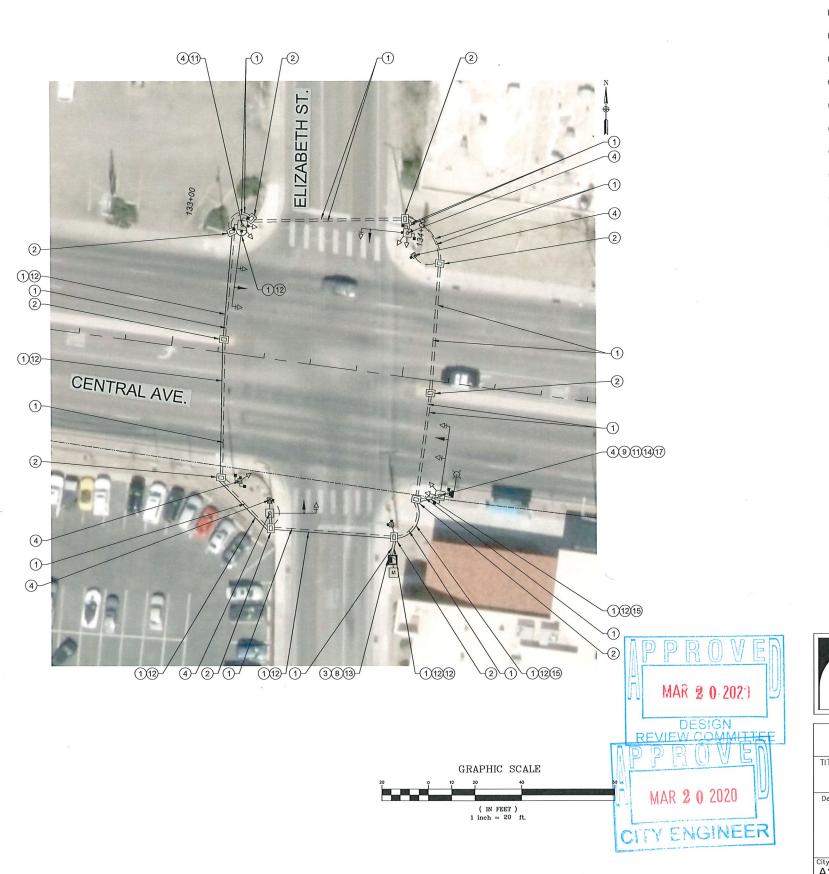


CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
ENGINEERING DIVISION

EAST CENTRAL AVENUE OPERATIONAL IMPROVEMENTS

Design Review Committee City Engineer Approval

City Project No. A300846 (6036.03) | Zone Map No. | Sheet | Of | 5 - 10 | 5 - 15 |



KEY NOTE CALLOUTS

- EXISTING CONDUIT
- 2 EXISTING PULL BOX OR MANHOLE
- 3 EXISTING TRAFFIC SIGNAL CABINET
- 4 EXISTING TRAFFIC SIGNAL POLE
- 8 INSTALL EQUIPMENT, SEE SHEET 5 0
- 9 INSTALL CCTV CAMERA, SEE SHEET 5
- 11 INSTALL ADVANCE RADAR DETECTION EQUIPMENT
- 12 INSTALL ADVANCE RADAR DETECTION CABLING
- 13 INSTALL TRAFFIC SIGNAL CABINET, SEE SHEET 5 - 02
- (4) INSTALL DSRC RADIO / BLUE TOOTH EQUIPMENT
- (15) INSTALL DSRC RADIO CABLING
- 16 EXISTING CCTV POLE
- 17 REMOVE & SALVAGE EXISTING CCTV

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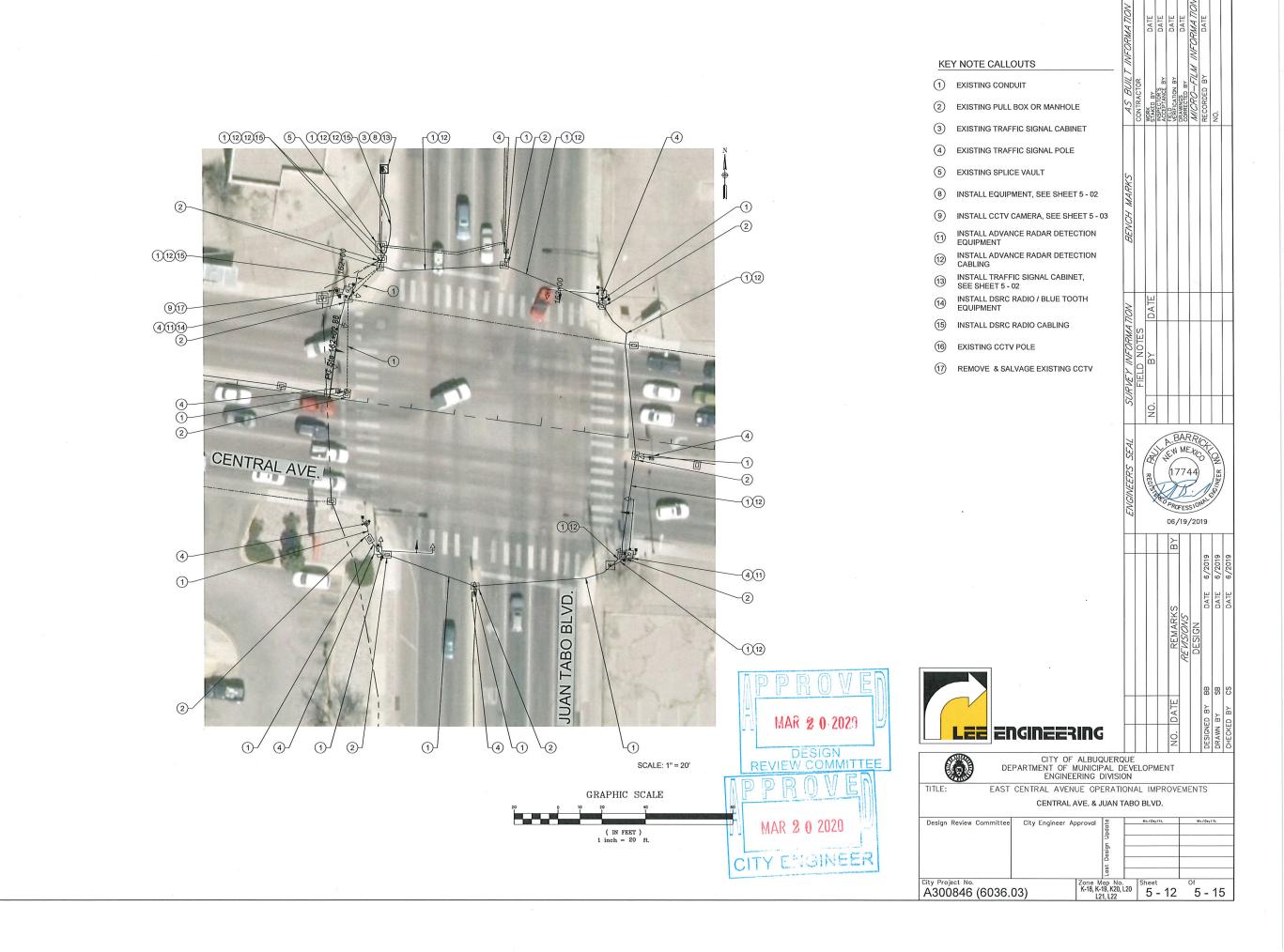
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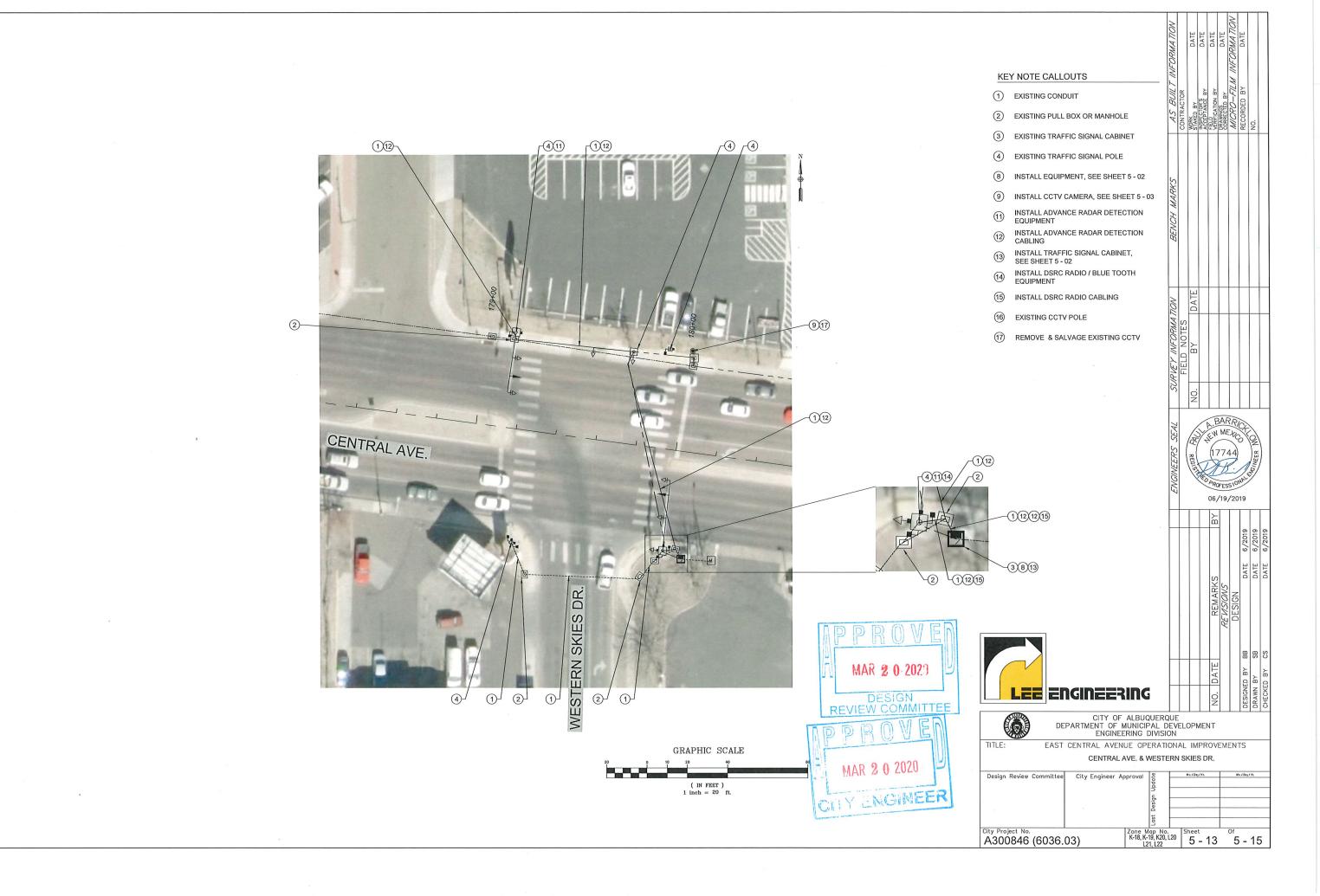
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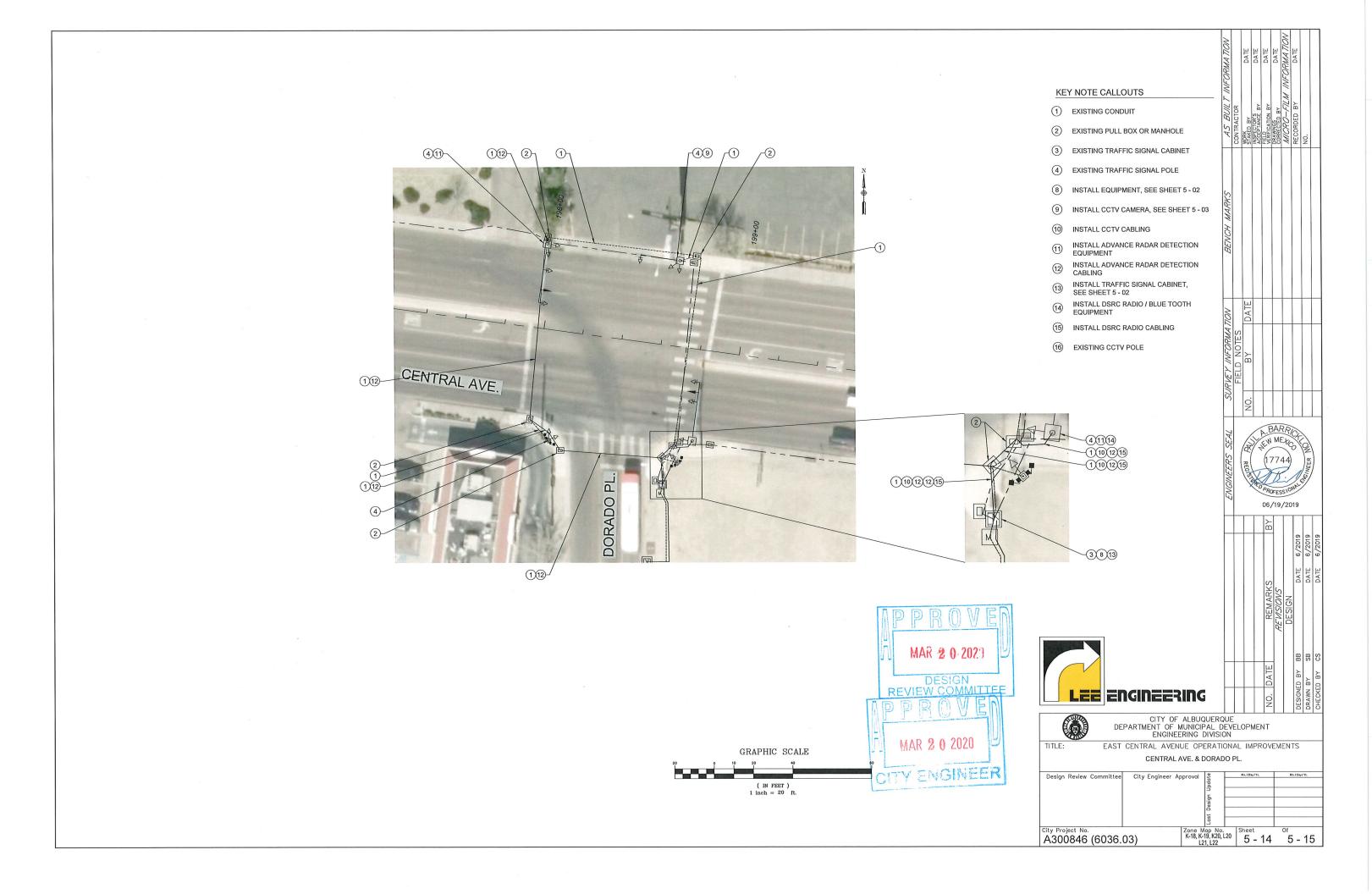
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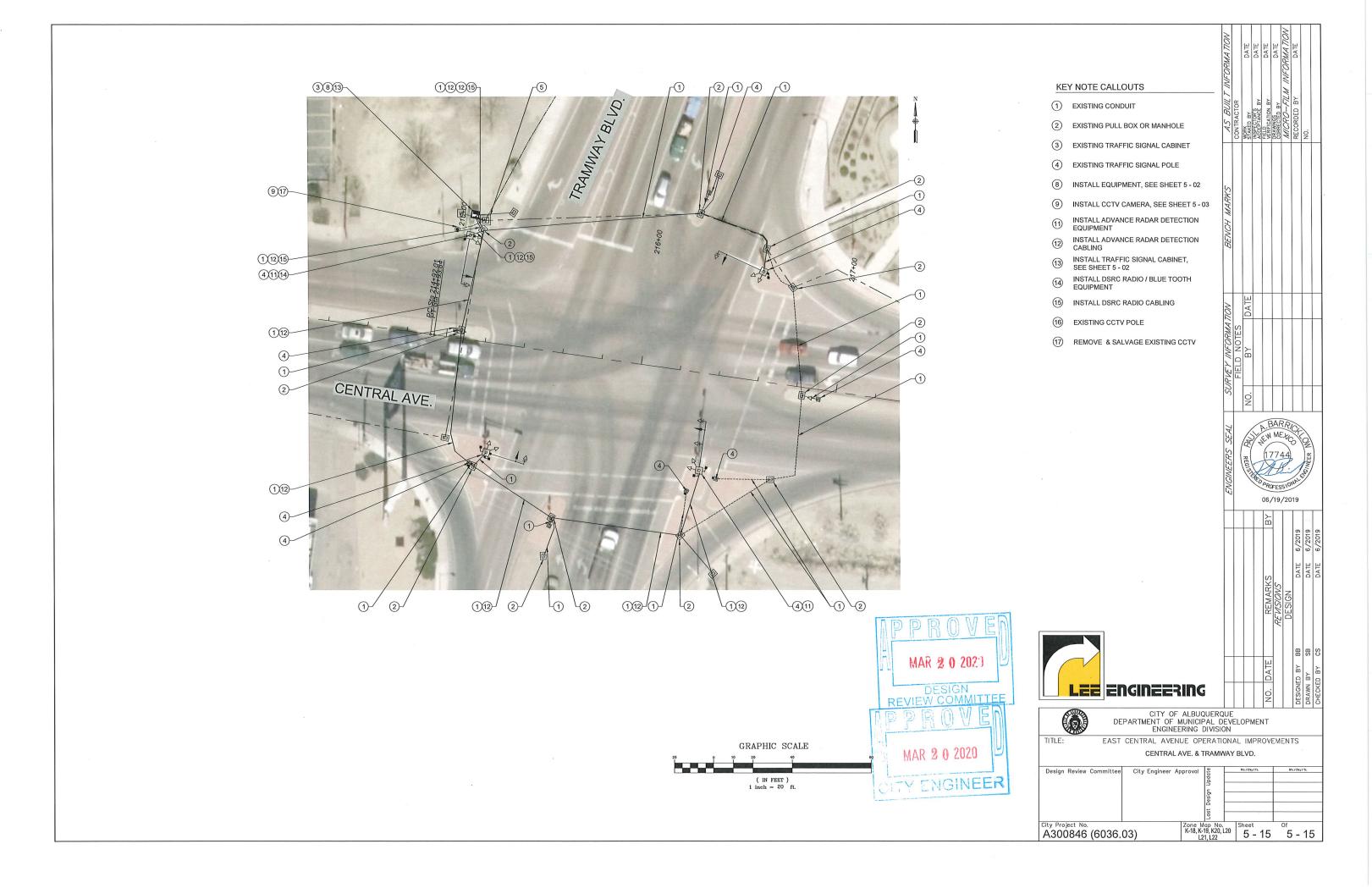
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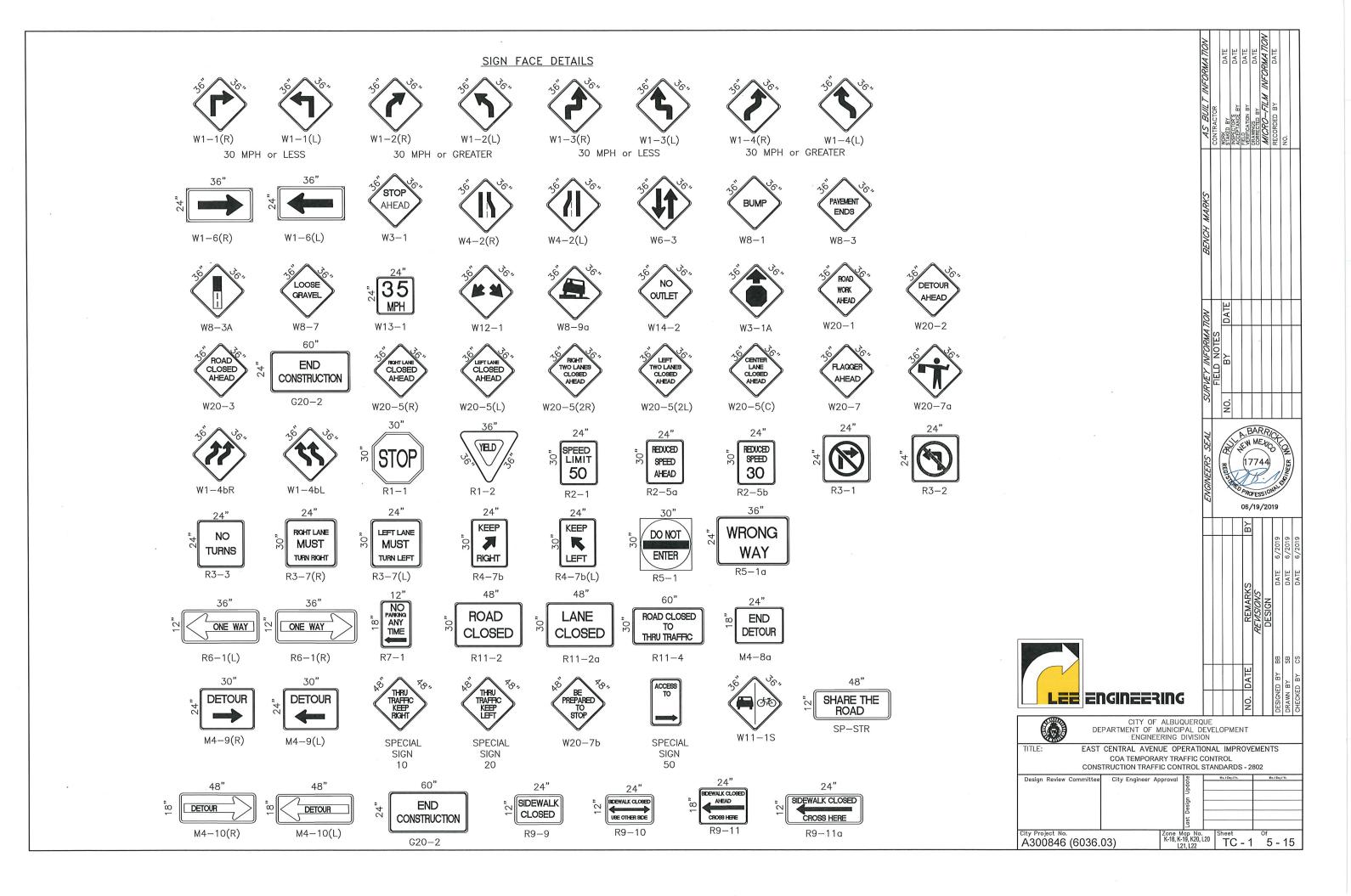
Design Review Committee City Engineer Approval

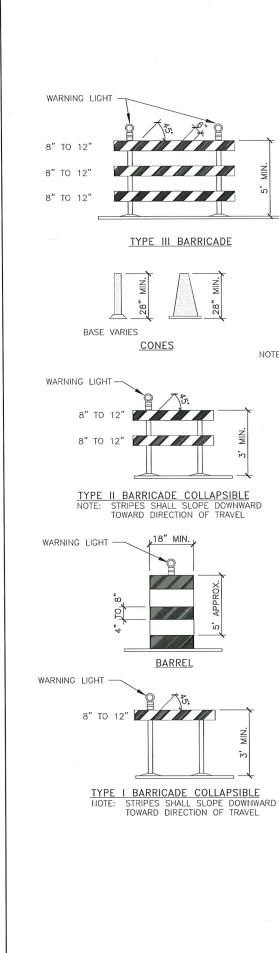


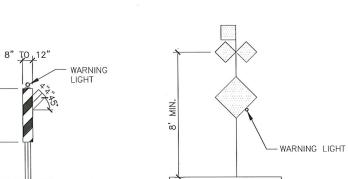












HIGH LEVEL WARNING DEVICE

VERTICAL PANEL

BUFFER SPACE TYPE III W/

TRAFFIC CONTROL ELEMENTS

R11-2a

W1-6(L) OR

ARROW PANEL

LANE CLOSED

NOTE: STRIPES SHALL SLOPE DOWNWARD TOWARD DIRECTION OF TRAVEL

_

LEGEND

WORK AREA

BARRICADE - TYPE I, TYPE II, VERTICAL PANEL, OR BARREL

BARRICADE - TYPE III

VERTICAL PANEL

WARNING SIGN

DISTANCE BETWEEN SIGNS — A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET

FLAGMAN POSITION

SPACING BETWEEN BARRICADES — A DISTANCE MEASURED IN FEET EQUAL TO THE STREET LIMIT OF THE STREET

TAPER LENGTH - SEE CHART BELOW

THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

TAPER REQUIREMENT

| SPEED LIMIT | TAF | PER LENGTH(| (L) | MINIMUM NUMBER OF | MAXIMUM DEVICE SPACING IN FEET | | | |
|----------------|-------------|-------------|-------------|-------------------------|-----------------------------------|----------------|--|--|
| (MPH) | 10' LANE | 11' LANE | 12' LANE | DEVICES FOR TAPER | ALONG TAPER | AFTER TAPER | | |
| 20 | 70 | 75 | 80 | 5 | 20 | 20 | | |
| 25 | 105 | 115 | 125 | 6 | 25 | 25 | | |
| 30 | 150 | 165 | 180 | 7 | 30 | 30 | | |
| 35 | 205 | 225 | 245 | 8 | 35 | 35 | | |
| 40 | 270 | 295 | 320 | 9 | 40 | 40 | | |
| 45 | 450 | 495 | 540 | 13 | 45 | 45 | | |
| 50 | 500 | 550 | 600 | 13 | 50 | 50 | | |
| 55 | 550 | 605 | 660 | 13 | 55 | - 55 | | |

TAPER CRITERIA

| TYPE OF TAPER | TAPER LENGTH | | NDED SIGN SPACING(D) FOR WARNING SIGN SERIES | |
|-----------------------|--------------------|----------|--|----|
| UPSTREAM TAPER: | | SPEED | MINIMUM DISTANCE IN FE | Έ |
| MERGING TAPER | L MINIMUM | MILES | BETWEEN FROM LA | S' |
| SHIFTING TAPER | 1/2 L MINIMUM | PER HOUR | SIGNS SIGN TO T | AF |
| SHOULDER TAPER | 1/2 L MINIMUM | 0-20 | 10 X SPEED LIMIT 10 X SPEED | L |
| TWO-WAY TRAFFIC TAPER | 100 FEET MAXIMUM | 25-30 | 10 X SPEED LIMIT 10 X SPEED | L |
| DOWNSTREAM TAPERS | 100 FEET PER LANE | 30-35 | 10 X SPEED LIMIT 10 X SPEED | L |
| TAPER LENGTH C | OMPUTATION | 40-45 | 10 X SPEED LIMIT 10 X SPEED | L |
| SPEED LIMIT | 0 | 50-60 | 10 X SPEED LIMIT 10 X SPEED | L |
| 40 MPH OR LESS | $I = \frac{WS}{2}$ | | | |

60

 $L = W \times S$

40 MPH OR GREATER L = TAPER LENGTH

W = WIDTH OF OFFSET IN FEET S = POSTED SPEED OR OFF-PEAK

85-PERCENTILE SPEED IN MPH

DECOMMENDED CICK CDACING(D) FOR

| SPEED | | | MINI | MUM | DISTA | NC | E IN FE | ΕI |
|-------------------|----|---|---------------|-------|-------|----|-------------------|-------|
| MILES PER HOUR | | | BETWE SIGN | | | | ROM LA N TO TA | |
| 0-20 | 10 | Χ | SPEED | LIMIT | 10 | Χ | SPEED | LIMIT |
| 25-30 | 10 | Χ | SPEED | LIMIT | 10 | Χ | SPEED | LIMIT |
| 30-35 | 10 | Χ | SPEED | LIMIT | 10 | Χ | SPEED | LIMIT |
| 40-45 | 10 | Χ | SPEED | LIMIT | 10 | Χ | SPEED | LIMIT |
| 50-60 | 10 | Χ | SPEED | LIMIT | 10 | Χ | SPEED | LIMIT |



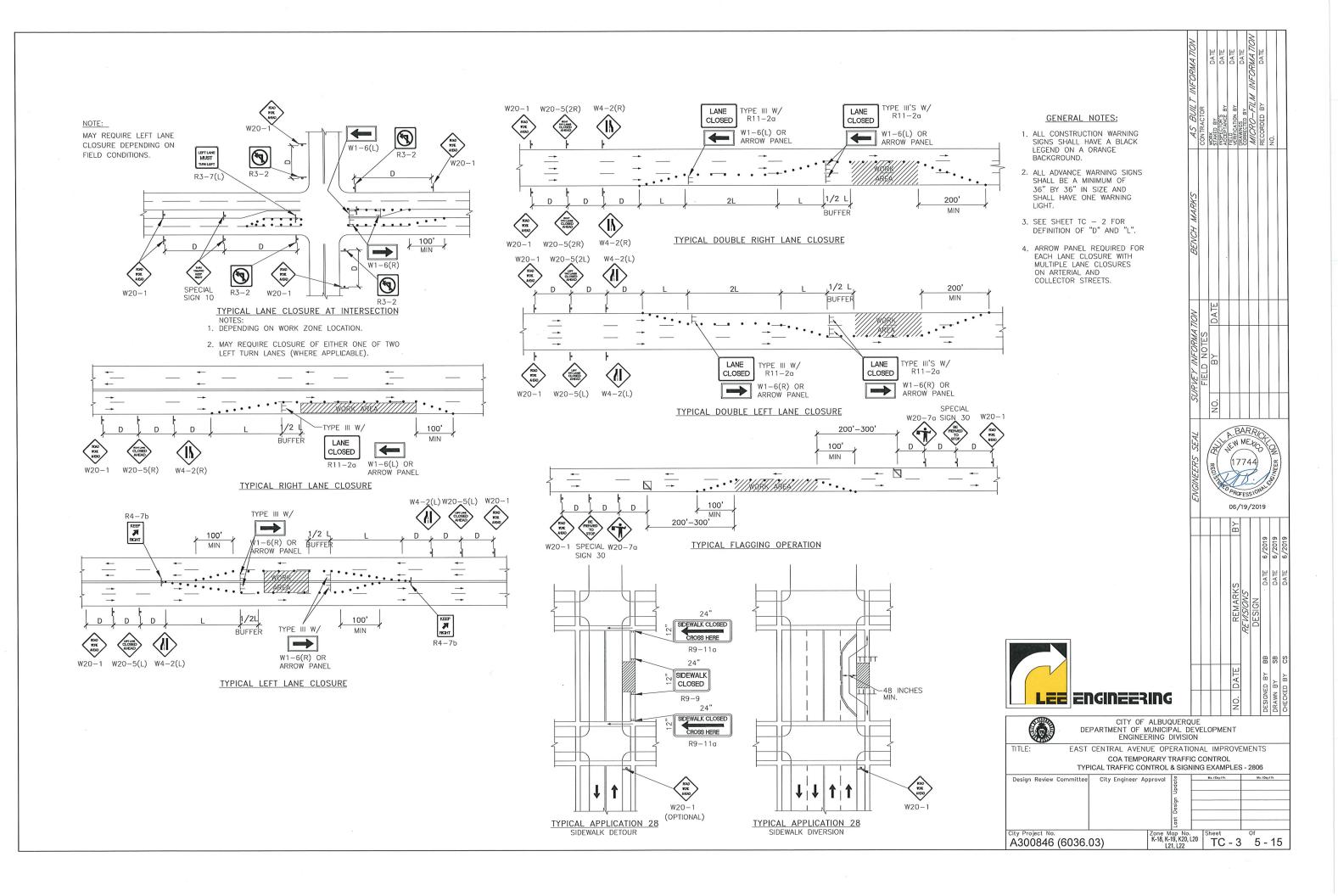
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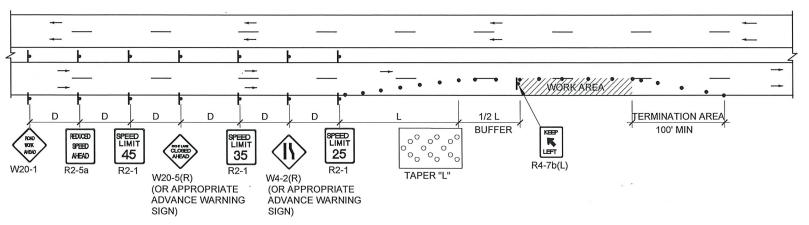
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| (III) | LINGINELINING DIVISION |
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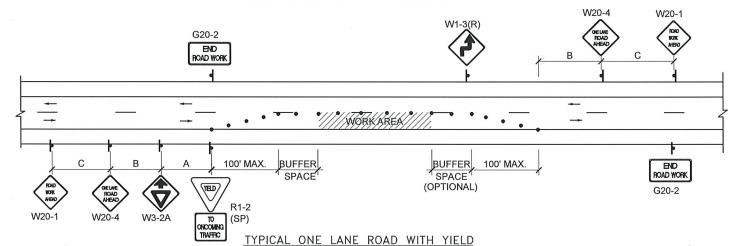
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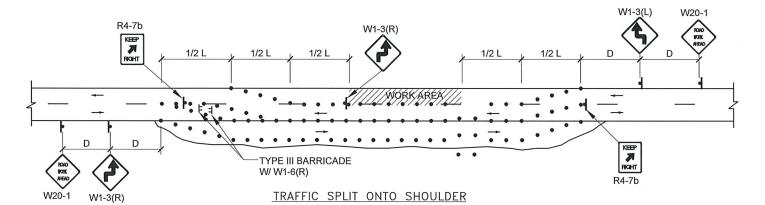
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| | City Project No. | | | | Zone K-18, I | Map N | 10. | Sheet | | Of | |
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| | , | | | | | 1, | • | | | | |





TYPICAL "REDUCED SPEED AHEAD" SET UP





NOTES:

- 1. SHOULDER AREA MUST BE GRADED, LEVEL AND SURFACED PER SECTION 1200.5.6
- 2. LANE WIDTHS SHALL BE MAINTAINED AT 11 FEET MINIMUM.
- 3. SHOULDER MUST HAVE ADEQUATE "CLEAR ZONE".
- 4. TRAFFIC SPLITS ONTO SHOULDERS SHALL NOT EXCEED THREE DAYS.
- ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

GENERAL NOTE:

- 2. ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF 36" BY 36" IN SIZE AND SHALL HAVE ONE WARNING LIGHT.
- 3. SEE DWG 2803 FOR DEFINITION OF "D" AND "L".

SUGGESTED ADVANCE WARNING SIGN SPACING

| ROAD TYPE | DISTANCE BETWEEN SIGNS | | | | | |
|--------------------|------------------------|-------|-------|--|--|--|
| | Α | В | С | | | |
| URBAN (LOW SPEED) | 200 | 200 | 200 | | | |
| URBAN (HIGH SPEED) | 350 | 350 | 350 | | | |
| RURAL | 500 | 500 | 500 | | | |
| EXPRESSWAY/FREEWAY | 1,000 | 1,600 | 2,600 | | | |

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| Design Review Committee | City Engineer Approv | Design Update | Ma. / Day / Yr. | Mo. / Day / Yr. |
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| ity Project No. | (13) Zon K-1 | Map No. 1, K-19, K20, L2 | Sheet TC - 4 | of 5 - 15 |