

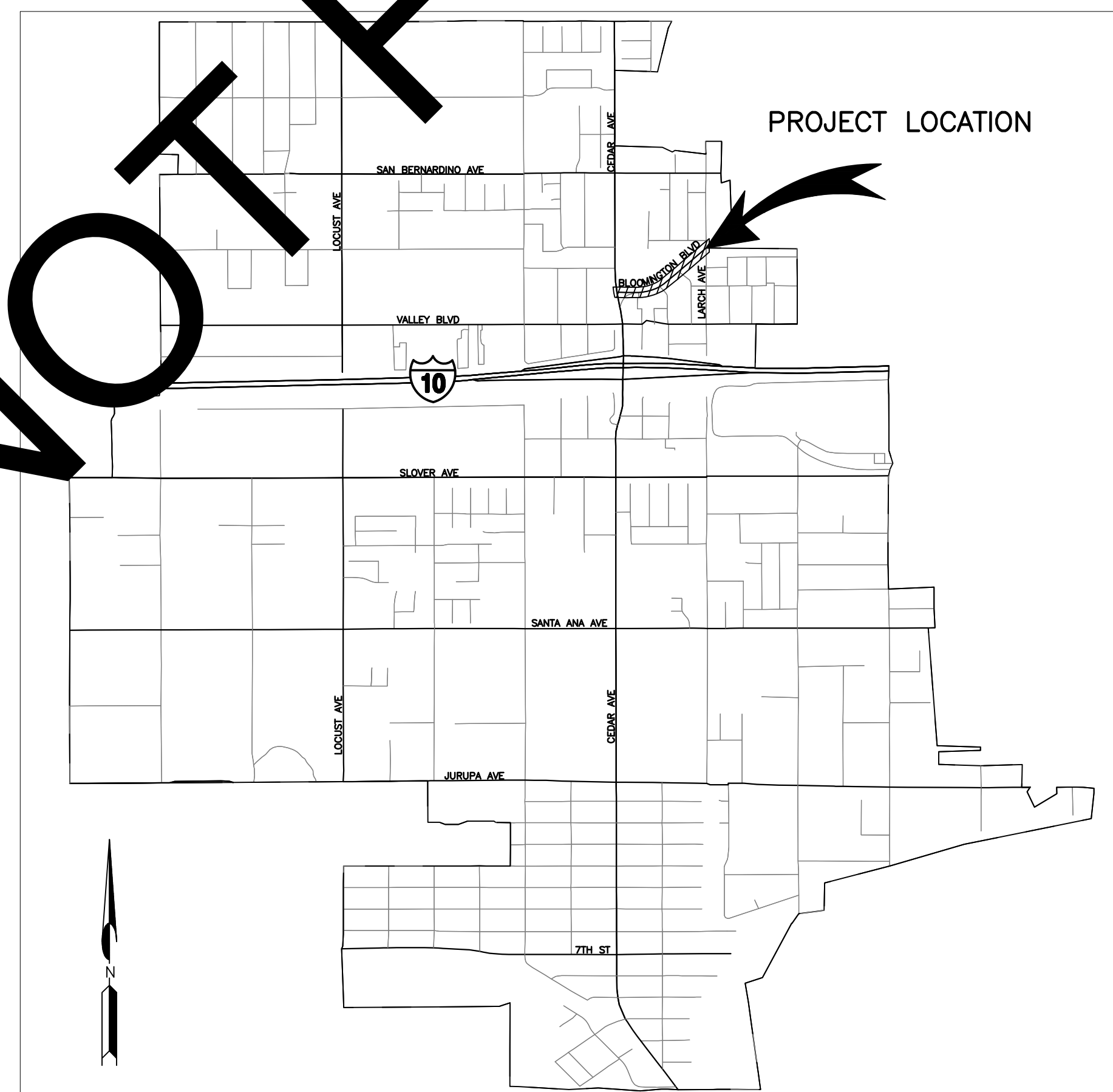
WARNING: ALL INDIVIDUALS INTERESTED IN BIDDING ON THIS PROJECT MUST OBTAIN THE FINAL PLANS AND SPECIFICATIONS FROM THE DEPARTMENT MANAGING THE PROJECT OR AS OTHERWISE STATED IN THE ADVERTISEMENT FOR BIDS FOR THE PROJECT. DO NOT USE THE PLANS AND SPECIFICATIONS POSTED ON THE CLERK OF THE BOARD'S WEBSITE FOR BIDDING ON THIS PROJECT.

SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS



TRANSPORTATION PLANS FOR CONSTRUCTION ON **BLOOMINGTON AVENUE** CEDAR AVE TO 0.11 MI NE OF LARCH AVE BLOOMINGTON AREA

WORK ORDER NO. TX1795 ROAD NO. 170550-010
LENGTH = 0.42 MILES



LOCATION MAP
NOT TO SCALE

SAN BERNARDINO COUNTY

APPROVED BY: *Brendon P. Biggs*
BRENDON P. BIGGS, M.S., P.E., DIRECTOR OF PUBLIC WORKS R.C.E. 57127
DATE: 8/15/23

APPROVED BY: *Noel Castillo*
NOEL CASTILLO, P.E., ASSISTANT DIRECTOR OF PUBLIC WORKS R.C.E. 78044
DATE: 8/15/2023

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| MARK | CHANGES | RESIDENT ENGINEER | DATE |
| | NO CHANGES | | |
| TITLE SHEET | | | TOT.SHTS. |
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INDEX OF SHEETS

- 1 TITLE SHEET
- 2 PROJECT NOTES, INDEX MAP, LEGENDS & INDEX OF SHEETS
- 3 TYPICAL SECTIONS & DETAILS
- 4 CURB RAMP DETAILS
- 5-7 CIVIL IMPROVEMENTS
- 8 STORM DRAIN PLAN AND PROFILE
- 9 SIGNING AND STRIPING
- 10 TRAFFIC SIGNAL
- 11-12 EROSION CONTROL

THE FOLLOWING SPECIAL DRAWINGS AND COUNTY STANDARDS ARE ATTACHED TO THE SPECIAL PROVISIONS:

109 110 115

TO BE SUPPLEMENTED BY THE FOLLOWING CALTRANS STANDARD PLANS DATED 2018.

A87A (MOD) A87B A88A A20A A20B
 A20C A20D A24A A24C A24D
 A24E A24F A62A A62D
 RSP ES-1A RSP ES-1B RSP ES-1C RSP ES-5A
 RSP ES-5B RSP ES-5C RSP ES-7A RSP ES-7B
 ES-7Q RSP ES-8A RSP ES-8B
 T9 T10 T11

CA MUTCD 2014 (REV 5)

2A-2 (CA) 2C-13 (CA) 3B-102 (CA)
 3D-101 (CA) 3H-101 (CA) 6D.01
 6D.02 FIG. 6H-28 FIG. 6H-29

TO BE SUPPLEMENTED BY THE FOLLOWING STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION:

303 303(a) 303(b) 600-3

THIS PROJECT REQUIRES A CONTRACTOR'S LICENSE CLASS "A"

GENERAL NOTES

- U. THE FACT THAT ANY UTILITY FACILITY IS SHOWN OR NOT SHOWN UPON THE PLANS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY UNDER SECTION 5-1.36C "NON-HIGHWAY FACILITIES," OF THE CALTRANS STANDARD SPECIFICATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY, PURSUANT THERETO, TO ASCERTAIN THE LOCATION OF ANY UTILITY FACILITY WHICH MAY BE SUBJECT TO DAMAGE BY REASON OF THE CONTRACTOR'S OPERATIONS.
- 1. ALL STATIONING NOTES ON PLAN REFER TO THE CL SUR OF BLOOMINGTON AVENUE OR SIDE STREET.
- 2. DIMENSIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE CALTRANS STANDARD SPECIFICATIONS.
- 3. ALL PAVEMENT WIDTH DIMENSIONS SHOWN ON THE PLANS ARE TO THE EDGE OF PAVEMENT OR TO THE TOP OF CURB, UNLESS OTHERWISE NOTED.
- 4. TRANSITIONS AND WARPING SHALL BE AS SHOWN AND AS DETERMINED BY THE ENGINEER.
- 5. ASPHALT CONCRETE OVERLAYS SHALL BE FEATHERED TO MEET EXISTING AS SHOWN ON THE PLANS OR AS DETERMINED BY THE ENGINEER.
- 6. ALL TREES & VEGETATION OUTSIDE THE LIMITS OF EXCAVATION AND EMBANKMENT SLOPE LINES, SHALL BE PROTECTED IN PLACE.
- 7. UTILITY PULL BOXES, MANHOLES, VAULTS AND ALL OTHER UTILITY FACILITIES WITHIN THE BOUNDARIES OF THE CURB RAMP WILL BE RELOCATED OR ADJUSTED TO GRADE BY THE OWNER PRIOR TO, OR IN CONJUNCTION WITH, CURB RAMP CONSTRUCTION.

BASIS OF BEARINGS:

THE BEARINGS SHOWN HEREON ARE BASED UPON THE CENTERLINE OF IMPROVEMENT BLOOMINGTON AVE., BEING NORTH 89° 53' 29" EAST, PER PARCEL MAP NO. 14988 FILED IN BOOK 182, PAGES 94 AND 95, IN THE OFFICE OF THE COUNTY RECORDER OF SAN BERNARDINO COUNTY, CALIFORNIA.

BENCH MARK:

THE ELEVATIONS SHOWN HEREON ARE BASED UPON THE COUNTY OF SAN BERNARDINO BENCH MARK NO. B-24

CHISELED X ON TOP OF CURB 56.2' WEST OF WEST END NW CURB RETURN VALLEY BLVD. & CEDAR AVE PER C.S.F.B. 4016/2351

ELEVATION 1100.76'

SURVEYOR NOTES:

THE RIGHT OF WAY LINES SHOWN HEREON ARE BASED UPON THE RECORDED MAPS AVAILABLE AT THE SAN BERNARDINO COUNTY SURVEYOR'S OFFICE. NO BENEFIT OF TITLE REPORT TO VERIFY OTHER RIGHT OF WAY DEDICATIONS.

ABBREVIATIONS LEGEND:

- ∠PT = ANGLE POINT
- BEG. = BEGIN
- CB = CATCH BASIN
- C&G = CURB AND GUTTER
- CL = CENTER LINE
- CLF = CHAIN LINK FENCE
- CONC = CONCRETE
- DWY'S = DRIVEWAYS
- EP = EDGE OF PAVEMENT
- EXIST = EXISTING
- FH = FIRE HYDRANT
- FL = FLOW LINE
- GB = GRADE BREAK
- GUY = GUY WIRE
- HP = HIGH POINT
- LD = LOCAL DEPRESSION
- LP = LOW POINT
- MB = MAILBOX
- NTS = NOT TO SCALE
- PG = PROFILE GRADE
- PP = POWER POLE
- PROP = PROPOSED
- R/W = RIGHT OF WAY
- SUR = SURVEY
- SHT = SHEET
- STA = STATION
- STD = STANDARD
- TCMH = TELECOMMUNICATION MANHOLE
- TS = TRAFFIC SIGNAL
- TSPB = TRAFFIC SIGNAL PULLBOX
- VAR. = VARIES
- WM = WATER METER
- WV = WATER VALVE

CONSTRUCTION & UNDERGROUND UTILITY LEGEND

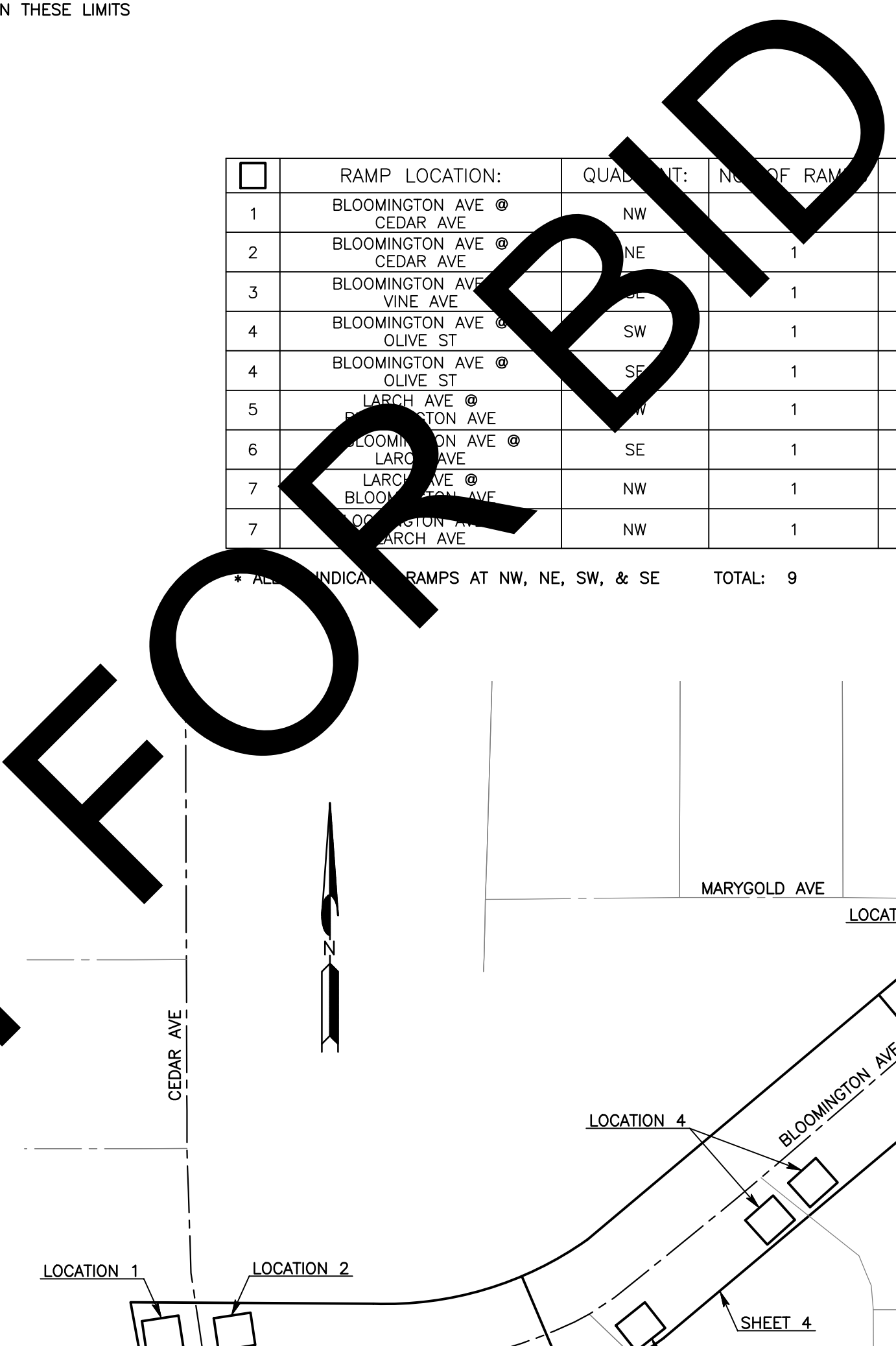
- ASPHALT CONCRETE PAVEMENT
- PORTLAND CEMENT CONCRETE (SECTION)
- GRASS/ LANDSCAPING AREA
- CEMENT WITH 2% ON PULVERIZED MATERIAL
- ASPHALT CONCRETE COLD PLANE AND OVERLAY
- NO PULVERIZATION WITHIN THESE LIMITS
- TCE LIMITS
- ADA LOCATIONS
- GAS LINE
- WATER LINE
- ELECTRIC LINE
- TELEPHONE LINE
- TRAFFIC SIGNAL

| RAMP LOCATION: | QUANTITY: | NO. OF RAMP | SHEET: |
|-------------------------------|-----------|-------------|--------|
| 1 BLOOMINGTON AVE @ CEDAR AVE | NW | 1 | 4 |
| 2 BLOOMINGTON AVE @ CEDAR AVE | NE | 1 | 4 |
| 3 BLOOMINGTON AVE @ VINE AVE | SE | 1 | 6 |
| 4 BLOOMINGTON AVE @ OLIVE ST | SW | 1 | 4 |
| 4 BLOOMINGTON AVE @ OLIVE ST | SE | 1 | 4 |
| 5 LARCH AVE @ BLOOMINGTON AVE | NW | 1 | 4 |
| 6 BLOOMINGTON AVE @ LARCH AVE | SE | 1 | 4 |
| 7 BLOOMINGTON AVE @ CEDAR AVE | NW | 1 | 4 |
| 7 BLOOMINGTON AVE @ LARCH AVE | NW | 1 | 4 |

* ALL INDICATED RAMP AT NW, NE, SW, & SE TOTAL: 9

TRAFFIC CONTROL GENERAL NOTES

- NOTE 1. ALL SIGNING, STRIPING AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE CALIFORNIA MUTCD LATEST EDITION.
- NOTE 2. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE PAINTED IN CONFORMANCE WITH THE CALTRANS 2018 STANDARD PLANS (DATED MAY 31, 2018).
- NOTE 3. ALL STRIPING (LONG LINE) AND PAVEMENT MARKINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- NOTE 4. ALL SIGNS SHALL BE OF HIGH INTENSITY (FHWA TYPE III/IV) RETROREFLECTIVE SHEETING EXCEPT:
 - A. STOP SIGNS SHALL BE DIAMOND GRADE (FHWA TYPE VII IN RURAL SETTINGS AND TYPE IX IN URBAN SETTINGS) RETROREFLECTIVE SHEETING.
 - B. "NO PARKING" SIGNS SHALL BE OF SUPER ENGINEERED GRADE (FHWA TYPE II) RETROREFLECTIVE SHEETING.
 - C. SCHOOL SIGNS SHALL BE OF DIAMOND GRADE (FHWA TYPE IX) FLUORESCENT YELLOW-GREEN (FYG) RETROREFLECTIVE SHEETING.
 - D. STREET NAME MARKERS SHALL BE OF DIAMOND GRADE (FHWA TYPE IX) RETROREFLECTIVE SHEETING AND CONFORM TO COUNTY STANDARD 303.
 - E. CONSTRUCTION SIGNS SHALL BE OF DIAMOND GRADE (FHWA TYPE IX) FLUORESCENT ORANGE RETROREFLECTIVE SHEETING.
- NOTE 5. ALL DELINEATORS, CHANNELIZERS, AND OBJECT MARKERS SHALL BE OF FHWA TYPE VII RETROREFLECTIVE SHEETING.
- NOTE 6. SIGNS SHALL BE MOUNTED ON METAL POSTS SIMILAR TO COUNTY STANDARDS 303(a) AND 303(b).
- NOTE 7. ALL CONFLICTING STRIPING AND PAVEMENT MARKINGS NOT SHOWN ON PLANS SHALL BE REMOVED BY THE CONTRACTOR. REMOVAL SHALL BE ACCOMPLISHED BY SANDBLASTING, GRINDING, OR AS DIRECTED BY COUNTY REPRESENTATIVE.
- NOTE 8. ALL CONFLICTING SIGNS SHALL BE REMOVED, RELOCATED, OR COVERED BY THE CONTRACTOR. RELOCATABLE SIGNS SHALL BE INSTALLED AS SPECIFIED ON THE PLANS OR AS DIRECTED BY COUNTY REPRESENTATIVE.
- NOTE 9. ALL UNPROTECTED LOCATIONS RESULTING IN ISOLATED ABRUPT DEPRESSIONS OR ELEVATED OBJECTS (I.E. CATCH BASINS, HEADWALLS, POWER POLES, END TREATMENT OF ASPHALT DIKES AND CONCRETE CURBS) SHALL BE PROTECTED BY DELINEATORS OR BARRIERS PER THE CALIFORNIA MUTCD LATEST EDITION.
- NOTE 10. ALL EXISTING SIGNING, STRIPING AND PAVEMENT MARKINGS (I.E. CROSS STREET STOP, STOP LIMIT LINE, AND CROSSWALK PAVEMENT MARKINGS) NOT SHOWN ON PLANS, IF REMOVED/OBLITERATED, SHALL BE REPLACED/RESTORED OF SAME KIND, AND IN CONFORMANCE WITH THE CALIFORNIA MUTCD LATEST EDITION.
- NOTE 11. THE CONTRACTOR SHALL NOTIFY COUNTY REPRESENTATIVE TO SCHEDULE A FINAL REVIEW (WALK THROUGH) WITH TRAFFIC DIVISION PERSONNEL FOR APPROVAL OF TRAFFIC CONTROL DEVICES PRIOR TO PROJECT ACCEPTANCE.



INDEX MAP NTS

CONSTRUCTION NOTES:

- U UTILITIES TO BE RESET BY OTHERS (ITEM PER PLAN) (SEE NOTE U. OF GENERAL NOTES ON EACH SHEET)
- P PROTECT IN PLACE (ITEM PER PLAN)
- 1 SAWCUT & REMOVE EXISTING ASPHALT PAVEMENT SURFACING
- 2 SAWCUT & REMOVE EXISTING CONCRETE SIDEWALK
- 2A SAWCUT & REMOVE EXISTING CONCRETE CROSS GUTTER
- 3 SAWCUT & REMOVE EXISTING CONCRETE CURB AND GUTTER
- 4 SAWCUT & REMOVE EXISTING CONCRETE CURB
- 4A SAWCUT & REMOVE EXISTING ASPHALT CONCRETE CURB
- 5 SAWCUT & REMOVE EXISTING CURB RAMP AND DETECTABLE WARNING SURFACE
- 6 PULVERIZE EXISTING ASPHALT PAVEMENT, BASE LAYER, AND NATIVE MATERIAL TO A DEPTH OF 1.2' BELOW PROPOSED FINISHED SURFACE AND REMOVE TOP 0.75' OF PULVERIZED MATERIAL
- 6A REMOVE EXISTING ASPHALT PAVEMENT, BASE LAYER, AND NATIVE MATERIAL TO THE DEPTH OF 0.90' BELOW PROPOSED FINISH SURFACE
- 6B REMOVE EXISTING NATIVE MATERIAL TO A DEPTH OF 4" BELOW PROPOSED FINISH SURFACE
- 7 COLD PLANE EXISTING ASPHALT PAVEMENT, 0.20' THICK, OVERLAY WITH TYPE G, 3/4" AGGREGATE GRADATION, PG64-16 (RHMA) APPLY TACK COAT
- 8 ADD 2% CEMENT TO REMAINING 0.45' PULVERIZED MATERIAL, PUT TO GRADE AND COMPACT. APPLY PRIME COAT, PLACE 0.55' TYPE A, 3/4" AGGREGATE GRADATION, PG70-10 PG (HMA), APPLY TACK COAT, PLACE 0.20' TYPE G, 3/4" AGGREGATE GRADATION, PG64-16 (RHMA)
- 9 PLACE 0.90' TYPE A, 3/4" AGGREGATE GRADATION, PG70-10 PG (HMA) OVER COMPACTED NATIVE SOIL
- 9A PLACE 0.20' TYPE G, 3/4" AGGREGATE GRADATION, PG64-16 (RHMA) OVER 0.70' TYPE A, 3/4" AGGREGATE GRADATION, PG70-10 PG (HMA) OVER COMPACTED NATIVE SOIL
- 10 PLACE 0.33' OF TYPE A, 3/4" AGGREGATE GRADATION, PG70-10 PG (HMA)
- 11 CONSTRUCT VARIABLE HEIGHT CONCRETE CURB PER CALTRANS STD A87A (MODIFIED), TYPE A1 CURBS
- 12 CONSTRUCT 8" CURB AND GUTTER PER COUNTY STD 115
- 12A CONSTRUCT 6" CURB AND GUTTER PER COUNTY STD 116
- 12B CONSTRUCT 8" TO 6" CURB AND GUTTER TRANSITION PER COUNTY STD 115 (MODIFIED)
- 12C CONSTRUCT VARIABLE HEIGHT CURB AND GUTTER PER COUNTY STD 115 (MODIFIED)
- 13 CONSTRUCT 4" CONCRETE SIDEWALK PER COUNTY STD 109, TYPE C (MODIFIED)
- 13A CONSTRUCT 4" CONCRETE SIDEWALK WITH WELDED WIRE FABRIC PER COUNTY STD 109, TYPE C (MODIFIED) AND PER DETAIL SHOWN ON SHEET 3
- 14 CONSTRUCT CURB RAMP PER CALTRANS RSP A88A (MODIFIED), CASE B
- 15 CONSTRUCT CURB RAMP PER CALTRANS RSP A88A (MODIFIED), CASE C
- 15A CONSTRUCT CURB RAMP PER CALTRANS RSP A88B (MODIFIED), CASE CM
- 16 NOT USED
- 17 PLACE DETECTABLE WARNING SURFACE PER CALTRANS RSP A88A
- 17A PLACE DETECTABLE WARNING SURFACE PER CALTRANS RSP A88B
- 18 INSTALL CHAIN LINK FENCE PER SPPWC STD 600-3
- 18A INSTALL POST AND FOOTING PER SPPWC STD 600-3
- 19 CONSTRUCT 6" WIDE VARIABLE HEIGHT CONCRETE RETAINING CURB (MONOLITHICALLY WITH SIDEWALK) PER CALTRANS STD A87A (MODIFIED), TYPE A1 CURBS
- 19A CONSTRUCT 6" WIDE VARIABLE HEIGHT CONCRETE SLOUGH WALL (MONOLITHICALLY WITH SIDEWALK) PER DETAIL SHOWN ON SHEET 3
- 20 PLACE 4" CONCRETE RESIDENTIAL DRIVEWAY WITH CURB PER COUNTY STD 135B (GUTTER LIP SHALL BE 1" UNLESS SHOWN OTHERWISE)
- 21 INSTALL GROUTED ROCK TREATMENT PER COUNTY SPEC DWG 112
- 22 PLACE 8" CONCRETE CROSS GUTTER PER COUNTY STD 119
- 23 ADJUST TO GRADE (ITEM PER PLAN)
- 30 REMOVE EXISTING STORM DRAIN
- 31 CONSTRUCT 24" RCP (1500 D) AS SHOWN ON PLAN
- 32 CONSTRUCT CATCH BASIN PER COUNTY STD 206
- 33 CONSTRUCT LOCAL DEPRESSION PER COUNTY STD 203
- 34 CONSTRUCT CONCRETE COLLAR PER SPPWC STD 380-4
- 35 INSTALL STORM DRAIN CLEANOUT PER COUNTY STD 208
- 36 NOT USED
- 37 CONSTRUCT 18" RCP (2000 D) AS SHOWN ON PLAN
- 38 REMOVE EXISTING
- 39 CONSTRUCT SLURRY CONCRETE ENCASEMENT, 6" MIN. THICK FROM O.D.
- 40 CONSTRUCT PIPE TO PIPE CONNECTION PER SPPWC STD. 340-2
- 50 ADJUST EXISTING TYPE 1-A POLE TO GRADE
- 51 ADJUST EXISTING TRAFFIC SIGNAL POLE TO GRADE PER CALTRANS STD

TRAFFIC CONTROL CONSTRUCTION NOTES:

- 1 PROTECT IN PLACE EXISTING TYPE 90 NEMA CONTROLLER ASSEMBLY IN EXISTING TYPE "R" CONTROLLER CABINET.
- 2 FURNISH AND INSTALL PEDESTRIAN PUSH BUTTON ASSEMBLY POST (5ft-7inch) OR AS NEEDED TO ACCOMMODATE THE PUSH BUTTON MOUNTING HEIGHT (5ft-6inch) WITH A (9inchx12inch) SIGN ABOVE THE PUSH BUTTON. ANY EXCESS POLE HEIGHT ABOVE PEDESTRIAN PUSH BUTTON ASSEMBLY SHALL BE CUT OFF AND CAPPED AS DIRECTED BY THE ENGINEER AND PER THE CALTRANS 2018 STANDARD PLAN RSP ES-7A.
- 3 FURNISH AND INSTALL 3-CONDUCTOR SIGNAL CABLE (3CSC) FROM EACH PEDESTRIAN BUTTON TO THE CONTROLLER ASSEMBLY.
- 4 FURNISH AND INSTALL 2inch SCHEDULE 80 ELECTRICAL GRADE PVC CONDUIT FROM PEDESTRIAN PUSH BUTTON POST INTO NEW OR EXISTING PULL BOX AS SHOWN ON PLAN.
- 5 FURNISH AND INSTALL NEW #6 TRAFFIC SIGNAL PULL BOX IN EXISTING CONDUIT RUN AS SHOWN ON PLAN AND PER THE CALTRANS 2018 STANDARD PLAN RSP ES-8A.
- 6 REMOVE EXISTING PEDESTRIAN PUSH BUTTON ASSEMBLY ON THE EXISTING SIGNAL POLE. ANY REMAINING HOLES SHALL BE CAPPED. REMOVE EXISTING 3CSC FROM CONDUIT FOR ADDITIONAL CAPACITY.
- 7 REMOVE EXISTING PULL BOX.
- 8 RELOCATE EXISTING PEDESTRIAN HEAD TO SIGNAL POLE AS SHOWN ON PLAN.
- 9 REMOVE EXISTING SIGNAL STANDARDS, EQUIPMENT, CABLES, AND ADJACENT CONDUIT. REMOVE FOUNDATION COMPLETE.

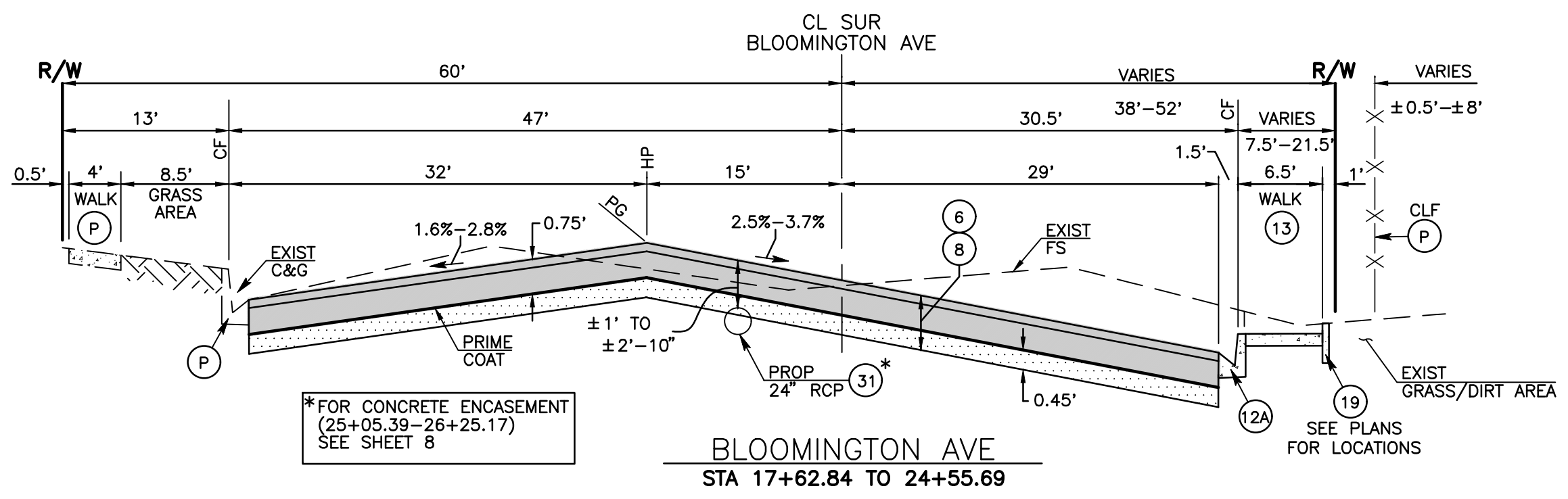
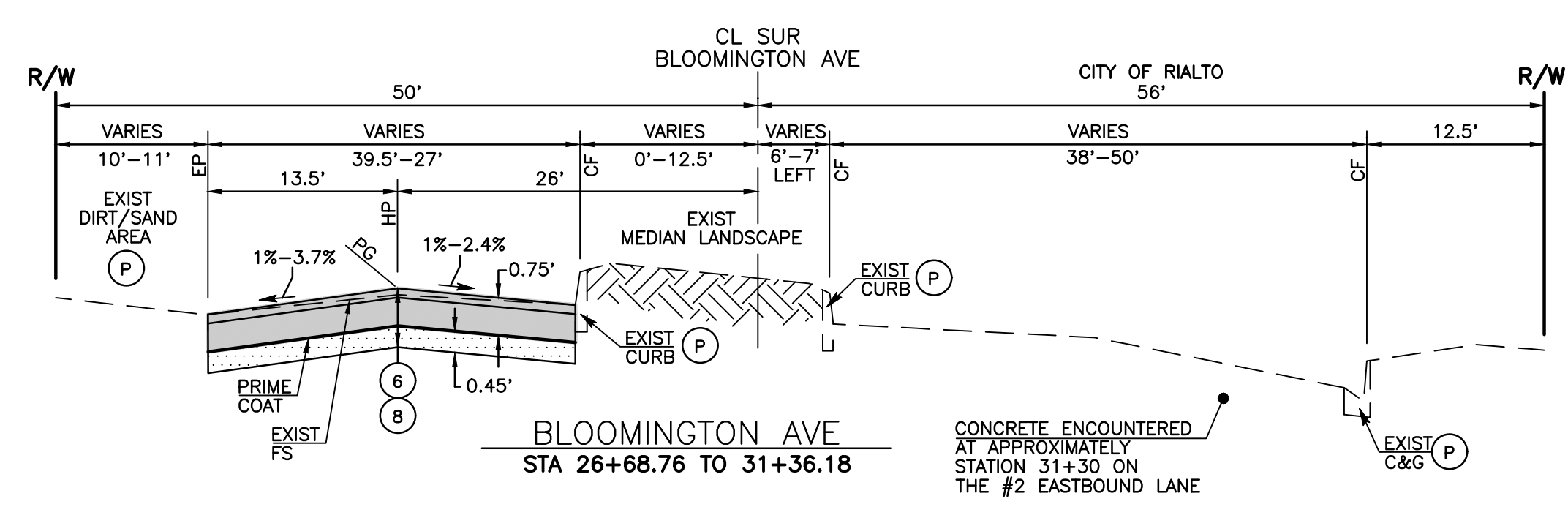
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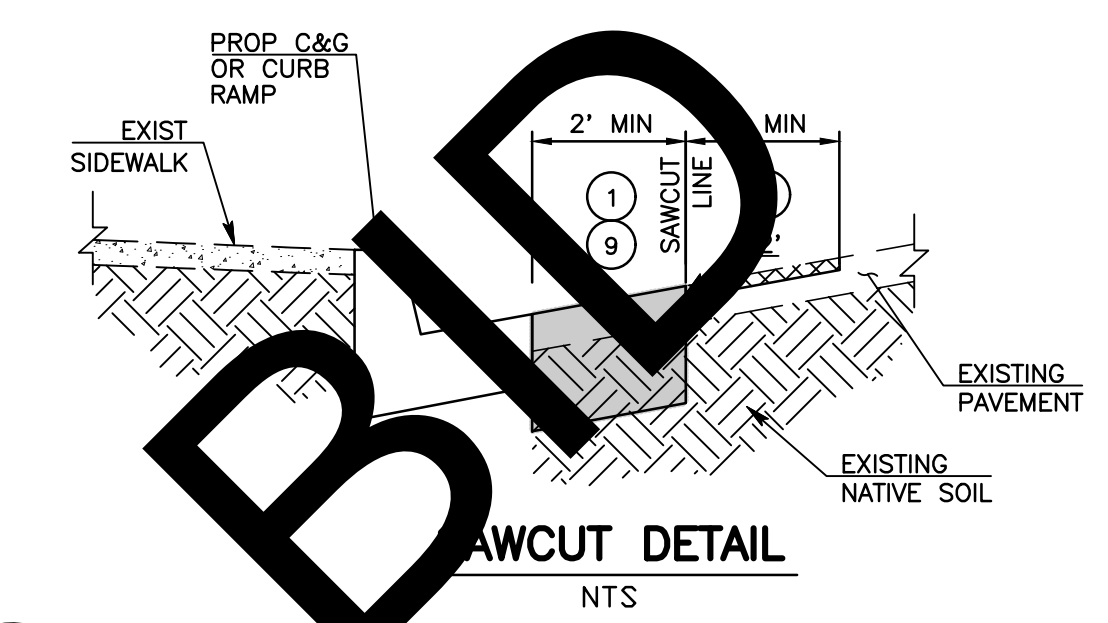
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| Plan Prepared By: <i>[Signature]</i> Date: July 2023 | | SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS | | BLOOMINGTON AVENUE PROJECT NOTES, INDEX MAP, LEGENDS & INDEX OF SHEETS BLOOMINGTON |
| MARK CHANGES NO CHANGES | RESIDENT ENGINEER DATE | DESIGNED BY: MB DRAWN BY: JM CHECKED BY: MS RECOMMENDED BY: <i>[Signature]</i> 08/08/2023 DATE | APPROVED BY: <i>[Signature]</i> 08/15/2023 DATE | J.L. REF. W.O. NO. PLAN SCALE SHT. NO. TOT.SHTS. - TX1795 NTS 2 12 |
| FIELD CHANGES | | Thomas Bustamonte 7/28/23 SUPERVISING ENGINEER DATE | Mervat N. Mikhail, P.E. DEPUTY DIRECTOR | DATE |

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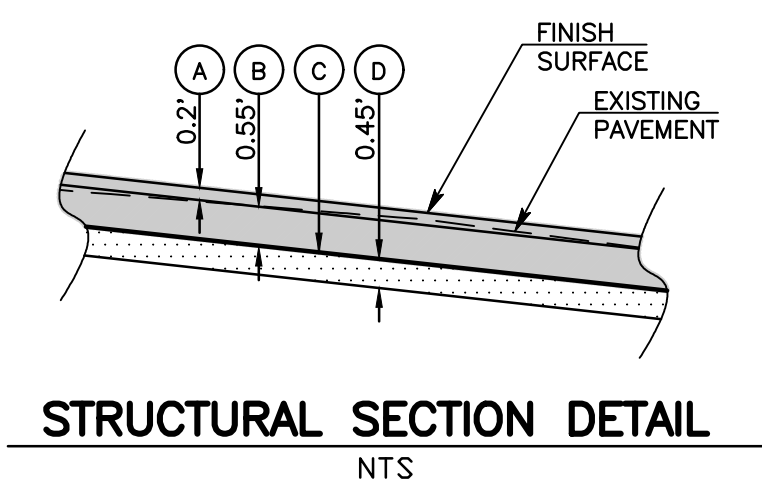
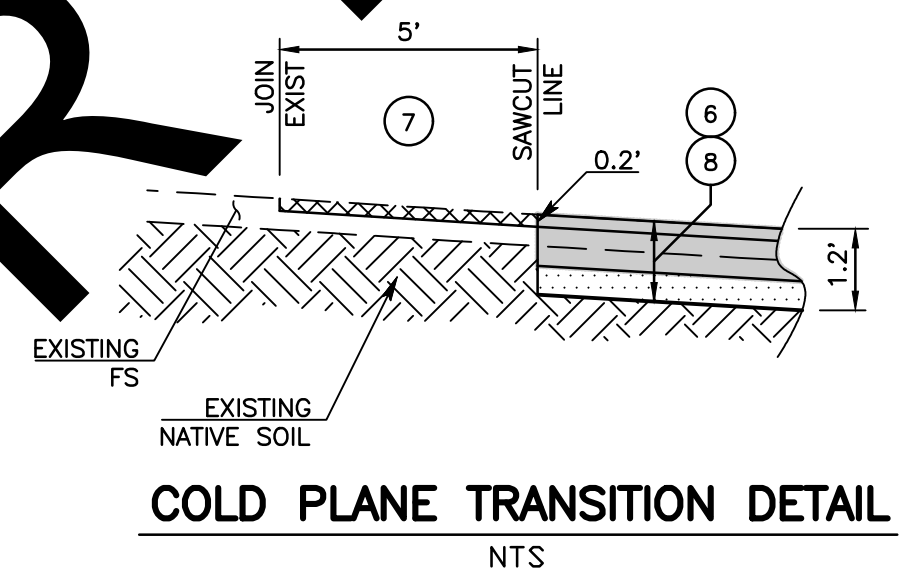
- CONSTRUCTION NOTES:
- P PROTECT IN PLACE (ITEM PER PLAN)
 - 1 SAWCUT & REMOVE EXISTING ASPHALT PAVEMENT SURFACING
 - 6 PULVERIZE EXISTING ASPHALT PAVEMENT, BASE LAYER, AND NATIVE MATERIAL TO A DEPTH OF 1.2' BELOW PROPOSED FINISHED SURFACE AND REMOVE TOP 0.75' OF PULVERIZED MATERIAL
 - 7 COLD PLANE EXISTING ASPHALT PAVEMENT, 0.20" THICK, OVERLAY WITH TYPE G, 3/4" AGGREGATE GRADATION, PG64-16 (RHMA) APPLY TACK COAT
 - 8 ADD 2% CEMENT TO REMAINING 0.45" PULVERIZED MATERIAL, PUT TO GRADE AND COMPACT. APPLY PRIME COAT, PLACE 0.55" TYPE A, 3/4" AGGREGATE GRADATION, PG70-10 PG (HMA), APPLY TACK COAT, PLACE 0.20" TYPE G, 3/4" AGGREGATE GRADATION, PG64-16 (RHMA)
 - 9 PLACE 0.90" TYPE A, 3/4" AGGREGATE GRADATION, PG70-10 PG (HMA) OVER COMPACTED NATIVE SOIL
 - 12A CONSTRUCT 6" CURB AND GUTTER PER COUNTY STD 116
 - 13 CONSTRUCT 4" CONCRETE SIDEWALK PER COUNTY STD 109, TYPE C (MODIFIED)
 - 13A CONSTRUCT 4" CONCRETE SIDEWALK WITH WELDED WIRE FABRIC PER COUNTY STD 109, TYPE C (MODIFIED) AND PER DETAIL SHOWN ON SHEET 3
 - 19 CONSTRUCT 6" WIDE VARIABLE HEIGHT CONCRETE RETAINING CURB (MONOLITHICALLY WITH SIDEWALK) PER CALTRANS STD A87A (MODIFIED), TYPE A1 CURBS
 - 19A CONSTRUCT 6" WIDE VARIABLE HEIGHT CONCRETE SLOUGH WALL (MONOLITHICALLY WITH SIDEWALK) PER DETAIL SHOWN ON SHEET 3
 - 31 CONSTRUCT 24" RCP (1500 D) AS SHOWN ON PLAN



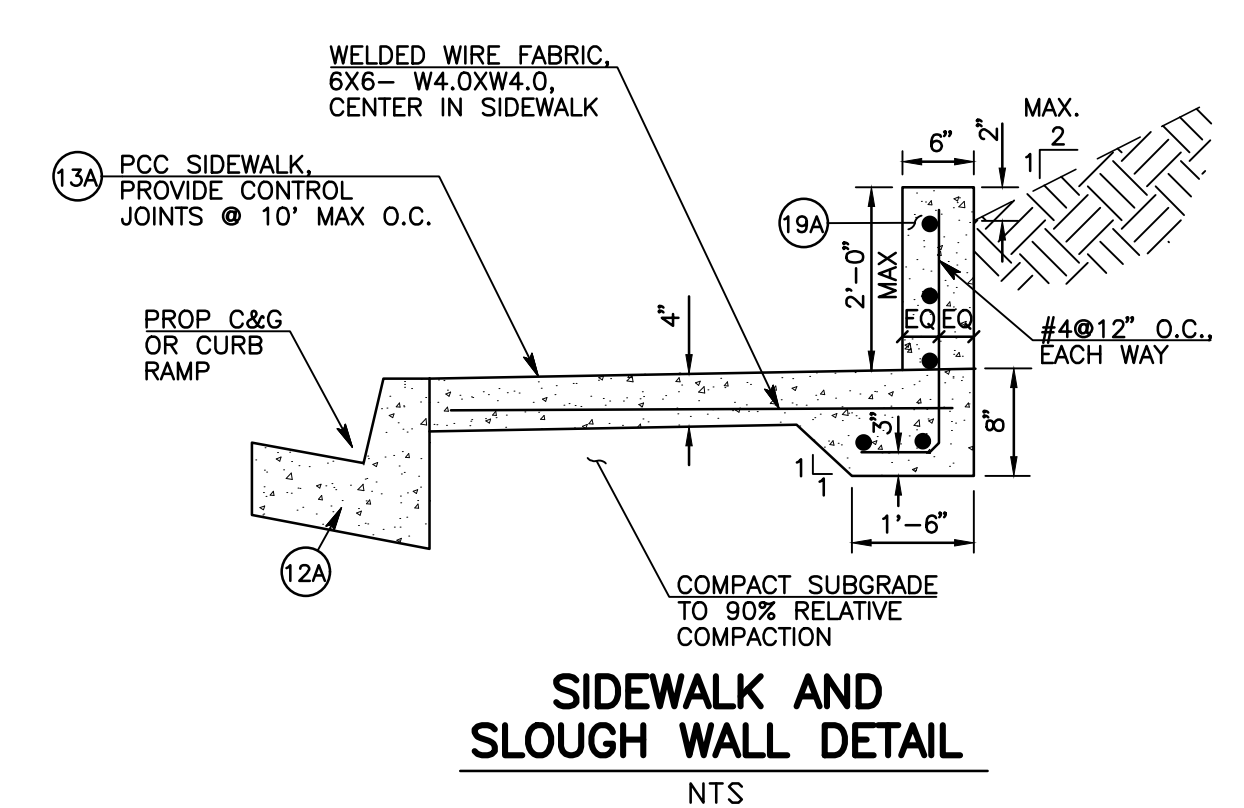
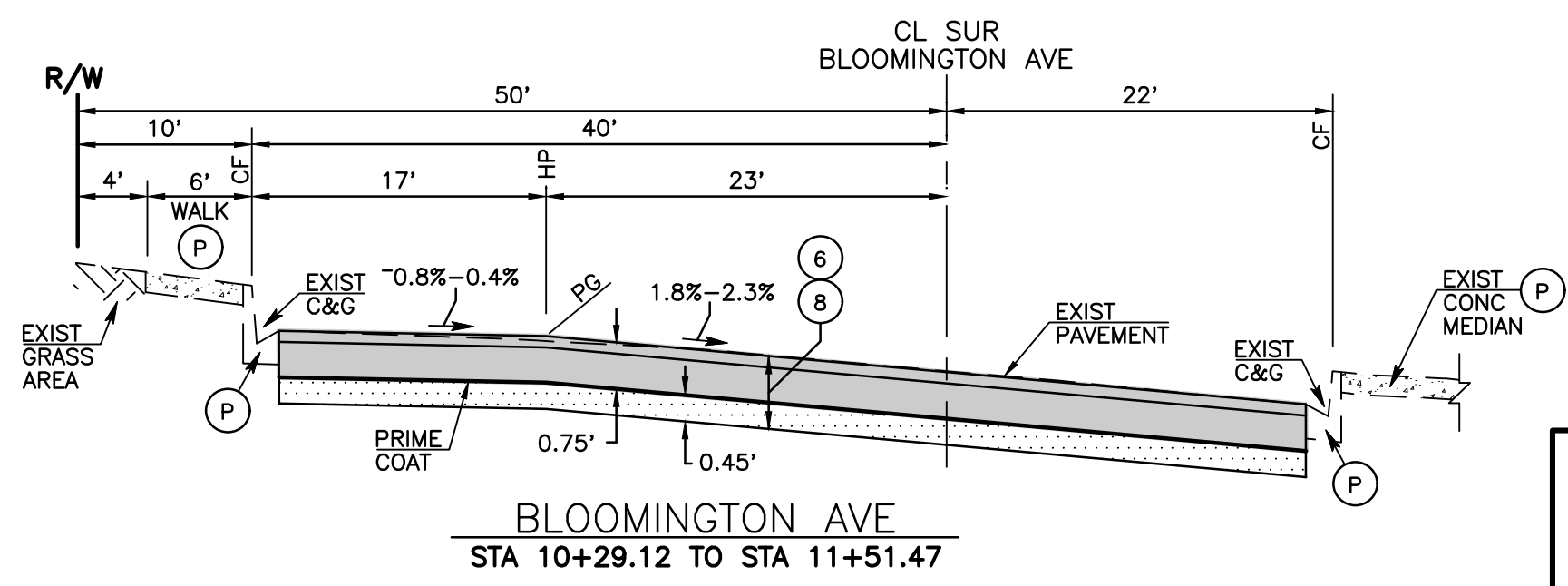
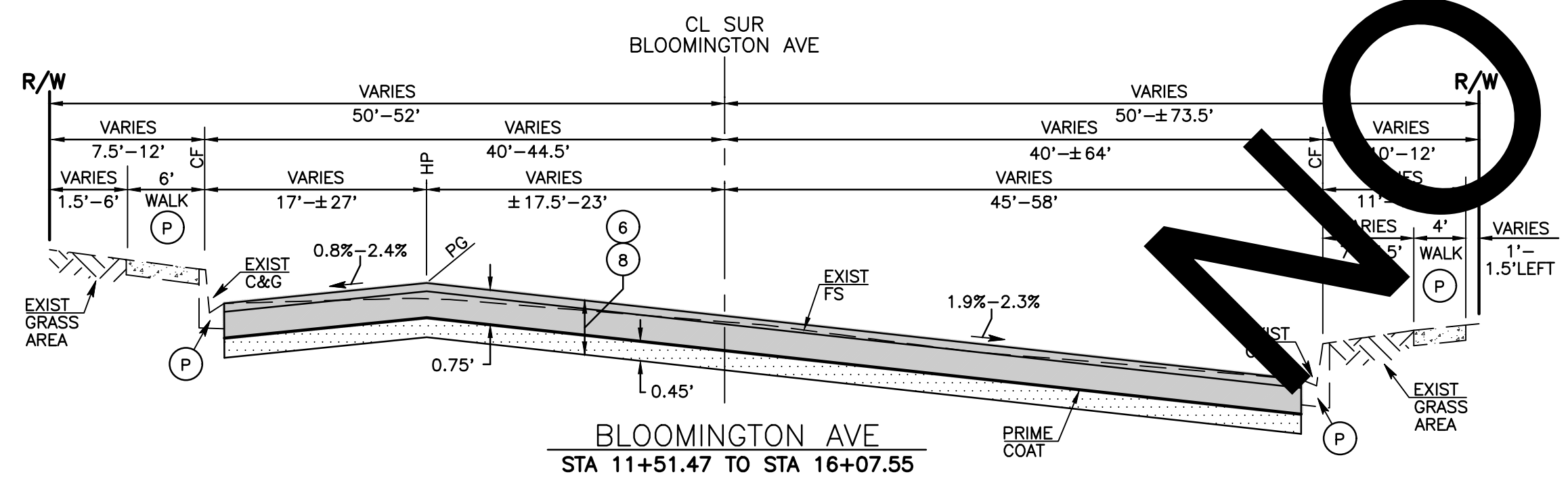
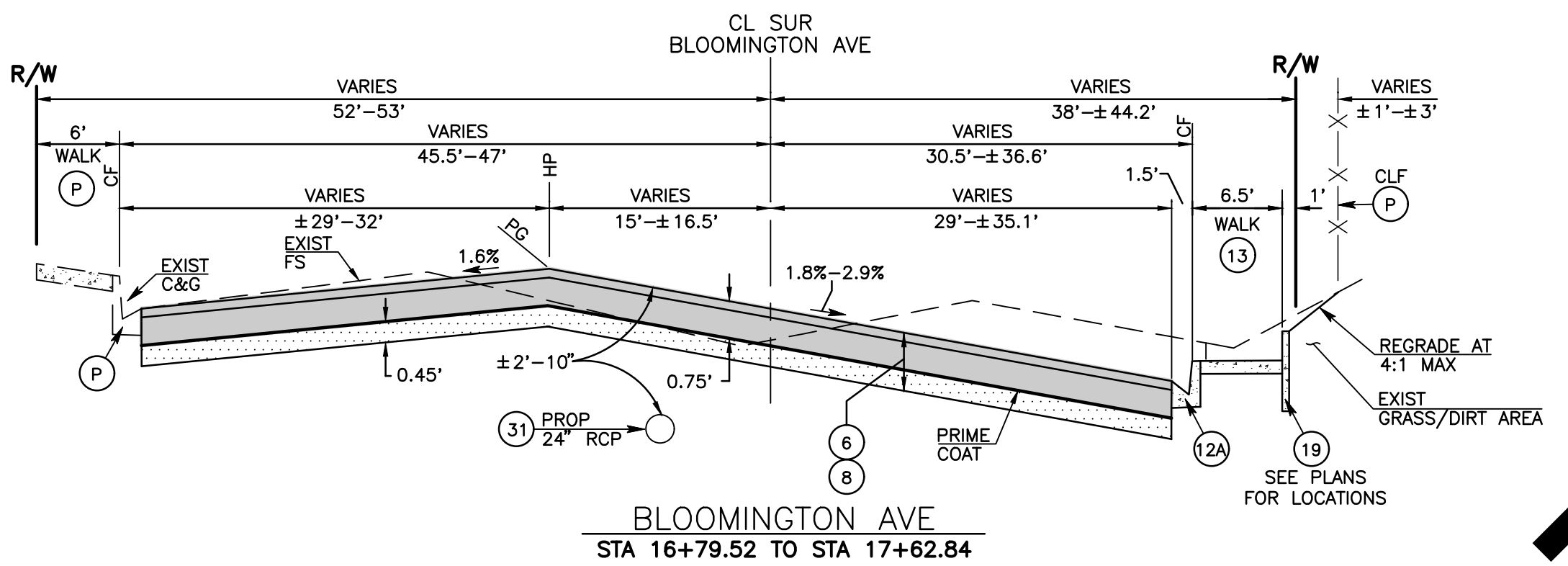
* FOR CONCRETE ENCASUREMENT (25+05.39-26+25.17) SEE SHEET 8



ALL SIDEWALK REMOVALS AND CONSTRUCTION IS TO BE TAKEN TO THE NEAREST JOINT LINE



- STRUCTURAL SECTION DETAIL NOTES
- A PLACE 0.20" TYPE G, 3/4" AGGREGATE GRADATION, PG64-16 (RHMA)
 - B PLACE 0.55" TYPE C, 3/4" AGGREGATE GRADATION, PG64-28 PM (HMA)
 - C APPLY PRIME COAT
 - D ADD 2% CEMENT TO REMAINING 0.45" PULVERIZED MATERIAL, PUT TO GRADE AND COMPACT



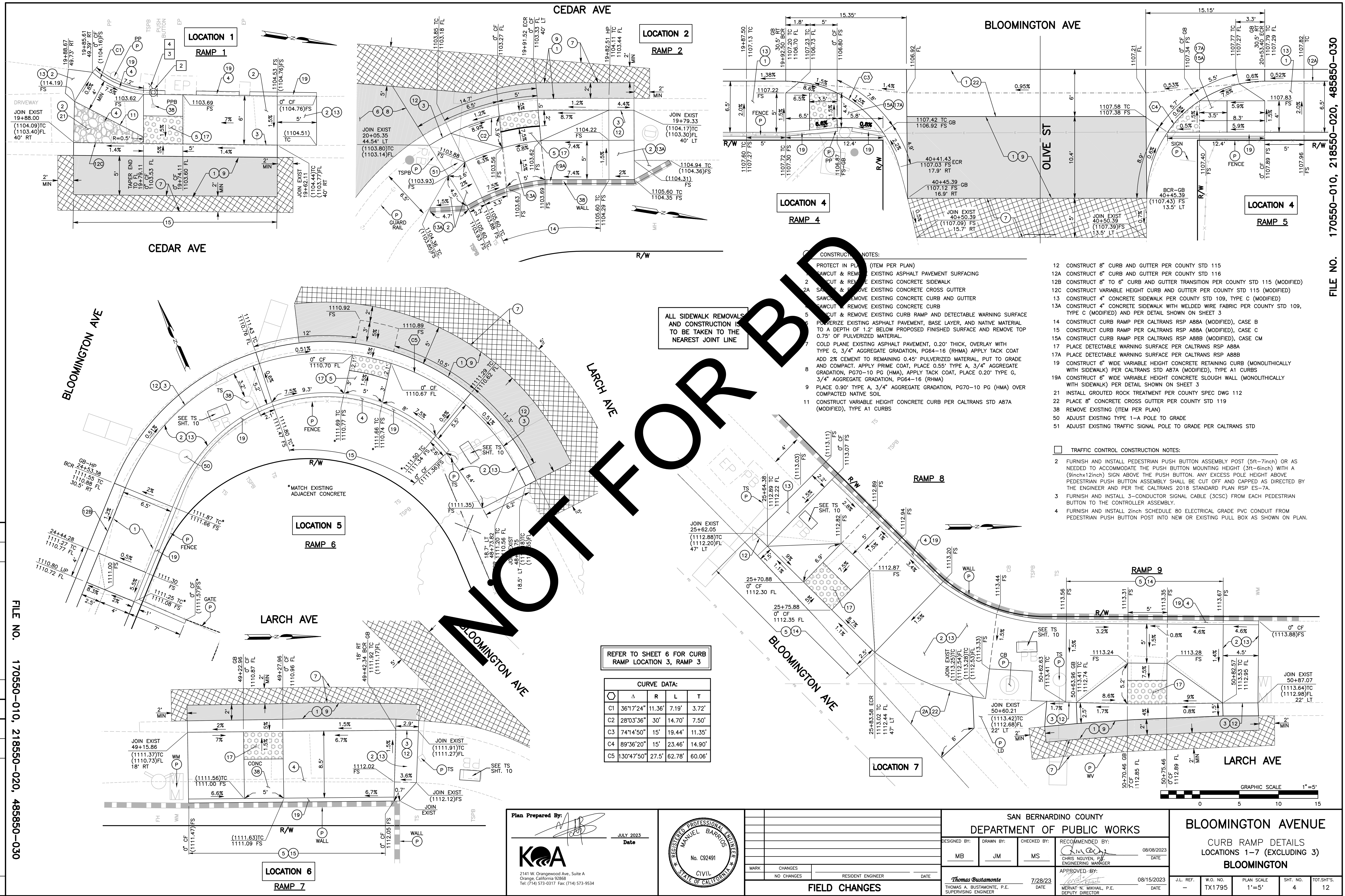
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FILE NO. 170550-010, 218550-020, 485850-030

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| Plan Prepared By: Date: JULY 2023 | | SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS | | | | BLOOMINGTON AVENUE TYPICAL SECTIONS & DETAILS BLOOMINGTON |
| | | DESIGNED BY: MB | DRAWN BY: JM | CHECKED BY: MS | RECOMMENDED BY: | |
| | | APPROVED BY: THOMAS A. BUSTAMONTE, P.E. SUPERVISING ENGINEER | | DATE: 7/28/23 | APPROVED BY: MERVAT N. MIKHAIL, P.E. DEPUTY DIRECTOR | DATE: 08/15/2023 |
| 2141 W. Orangewood Ave., Suite A Orange, California 92868 Tel: (714) 573-0317 Fax: (714) 573-9534 | | FIELD CHANGES | | J.L. REF. W.O. NO. PLAN SCALE SHT. NO. TOT.SHTS. - TX1795 NTS 3 12 | | |



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FILE NO. 170550-010, 218550-020, 485850-030

ALL SIDEWALK REMOVALS AND CONSTRUCTION IS TO BE TAKEN TO THE NEAREST JOINT LINE

- CONSTRUCTION NOTES:
- PROTECT IN PLACE (ITEM PER PLAN)
 - SAWCUT & REMOVE EXISTING ASPHALT PAVEMENT SURFACING
 - CUT & REMOVE EXISTING CONCRETE SIDEWALK
 - SAWCUT & REMOVE EXISTING CONCRETE CROSS GUTTER
 - SAWCUT & REMOVE EXISTING CONCRETE CURB AND GUTTER
 - SAWCUT & REMOVE EXISTING CONCRETE CURB
 - CUT & REMOVE EXISTING CURB RAMP AND DETECTABLE WARNING SURFACE
 - PULVERIZE EXISTING ASPHALT PAVEMENT, BASE LAYER, AND NATIVE MATERIAL TO A DEPTH OF 1.2' BELOW PROPOSED FINISHED SURFACE AND REMOVE TOP 0.75' OF PULVERIZED MATERIAL
 - COLD PLANE EXISTING ASPHALT PAVEMENT, 0.20" THICK, OVERLAY WITH TYPE G, 3/4" AGGREGATE GRADATION, PG64-16 (RHMA) APPLY TACK COAT ADD 2% CEMENT TO REMAINING 0.45" PULVERIZED MATERIAL, PUT TO GRADE AND COMPACT. APPLY PRIME COAT, PLACE 0.55" TYPE A, 3/4" AGGREGATE GRADATION, PG70-10 PG (HMA), APPLY TACK COAT, PLACE 0.20" TYPE G, 3/4" AGGREGATE GRADATION, PG64-16 (RHMA)
 - PLACE 0.90" TYPE A, 3/4" AGGREGATE GRADATION, PG70-10 PG (HMA) OVER COMPACTED NATIVE SOIL
 - CONSTRUCT VARIABLE HEIGHT CONCRETE CURB PER CALTRANS STD A87A (MODIFIED), TYPE A1 CURBS

- CONSTRUCT 8" CURB AND GUTTER PER COUNTY STD 115
- CONSTRUCT 6" CURB AND GUTTER PER COUNTY STD 116
- CONSTRUCT 8" TO 6" CURB AND GUTTER TRANSITION PER COUNTY STD 115 (MODIFIED)
- CONSTRUCT VARIABLE HEIGHT CURB AND GUTTER PER COUNTY STD 115 (MODIFIED)
- CONSTRUCT 4" CONCRETE SIDEWALK PER COUNTY STD 109, TYPE C (MODIFIED)
- CONSTRUCT 4" CONCRETE SIDEWALK WITH WELDED WIRE FABRIC PER COUNTY STD 109, TYPE C (MODIFIED) AND PER DETAIL SHOWN ON SHEET 3
- CONSTRUCT CURB RAMP PER CALTRANS RSP A88A (MODIFIED), CASE B
- CONSTRUCT CURB RAMP PER CALTRANS RSP A88A (MODIFIED), CASE C
- CONSTRUCT CURB RAMP PER CALTRANS RSP A88B (MODIFIED), CASE CM
- PLACE DETECTABLE WARNING SURFACE PER CALTRANS RSP A88A
- PLACE DETECTABLE WARNING SURFACE PER CALTRANS RSP A88B
- CONSTRUCT 6" WIDE VARIABLE HEIGHT CONCRETE RETAINING CURB (MONOLITHICALLY WITH SIDEWALK) PER CALTRANS STD A87A (MODIFIED), TYPE A1 CURBS
- CONSTRUCT 6" WIDE VARIABLE HEIGHT CONCRETE SLOUGH WALL (MONOLITHICALLY WITH SIDEWALK) PER DETAIL SHOWN ON SHEET 3
- INSTALL GROUTED ROCK TREATMENT PER COUNTY SPEC DWG 112
- PLACE 8" CONCRETE CROSS GUTTER PER COUNTY STD 119
- REMOVE EXISTING (ITEM PER PLAN)
- ADJUST EXISTING TYPE 1-A POLE TO GRADE
- ADJUST EXISTING TRAFFIC SIGNAL POLE TO GRADE PER CALTRANS STD

- TRAFFIC CONTROL CONSTRUCTION NOTES:
- FURNISH AND INSTALL PEDESTRIAN PUSH BUTTON ASSEMBLY POST (5ft-7inch) OR AS NEEDED TO ACCOMMODATE THE PUSH BUTTON MOUNTING HEIGHT (3ft-6inch) WITH A (9inchx12inch) SIGN ABOVE THE PUSH BUTTON. ANY EXCESS POLE HEIGHT ABOVE PEDESTRIAN PUSH BUTTON ASSEMBLY SHALL BE CUT OFF AND CAPPED AS DIRECTED BY THE ENGINEER AND PER THE CALTRANS 2018 STANDARD PLAN RSP ES-7A.
 - FURNISH AND INSTALL 3-CONDUCTOR SIGNAL CABLE (3CSC) FROM EACH PEDESTRIAN BUTTON TO THE CONTROLLER ASSEMBLY.
 - FURNISH AND INSTALL 2inch SCHEDULE 80 ELECTRICAL GRADE PVC CONDUIT FROM PEDESTRIAN PUSH BUTTON POST INTO NEW OR EXISTING PULL BOX AS SHOWN ON PLAN.

REFER TO SHEET 6 FOR CURB RAMP LOCATION 3, RAMP 3

CURVE DATA:

| Δ | R | L | T | |
|----|------------|--------|--------|--------|
| C1 | 36°17'24" | 11.36' | 7.19' | 3.72' |
| C2 | 28°03'36" | 30' | 14.70' | 7.50' |
| C3 | 74°14'50" | 15' | 19.44' | 11.35' |
| C4 | 89°36'20" | 15' | 23.46' | 14.90' |
| C5 | 130°47'50" | 27.5' | 62.78' | 60.06' |

Plan Prepared By: *[Signature]*
 JULY 2023
 Date

KOA
 2141 W. Orangewood Ave., Suite A
 Orange, California 92868
 Tel: (714) 573-0317 Fax: (714) 573-9534

REGISTERED PROFESSIONAL ENGINEER
MANUEL BARRIOS
 No. C92491
 CIVIL
 STATE OF CALIFORNIA

| | | | |
|------|------------|-------------------|------|
| MARK | CHANGES | RESIDENT ENGINEER | DATE |
| | NO CHANGES | | |

FIELD CHANGES

SAN BERNARDINO COUNTY
 DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: MB
 DRAWN BY: JM
 CHECKED BY: MS
 RECOMMENDED BY: *[Signature]* 08/08/2023
 DATE

APPROVED BY: *[Signature]* 08/15/2023
 DATE

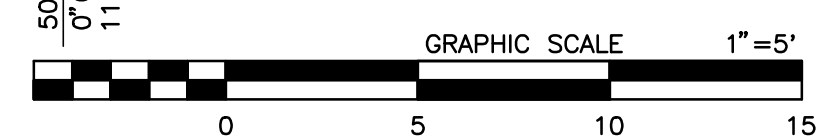
Thomas Bustamonte
 THOMAS A. BUSTAMONTE, P.E.
 SUPERVISING ENGINEER

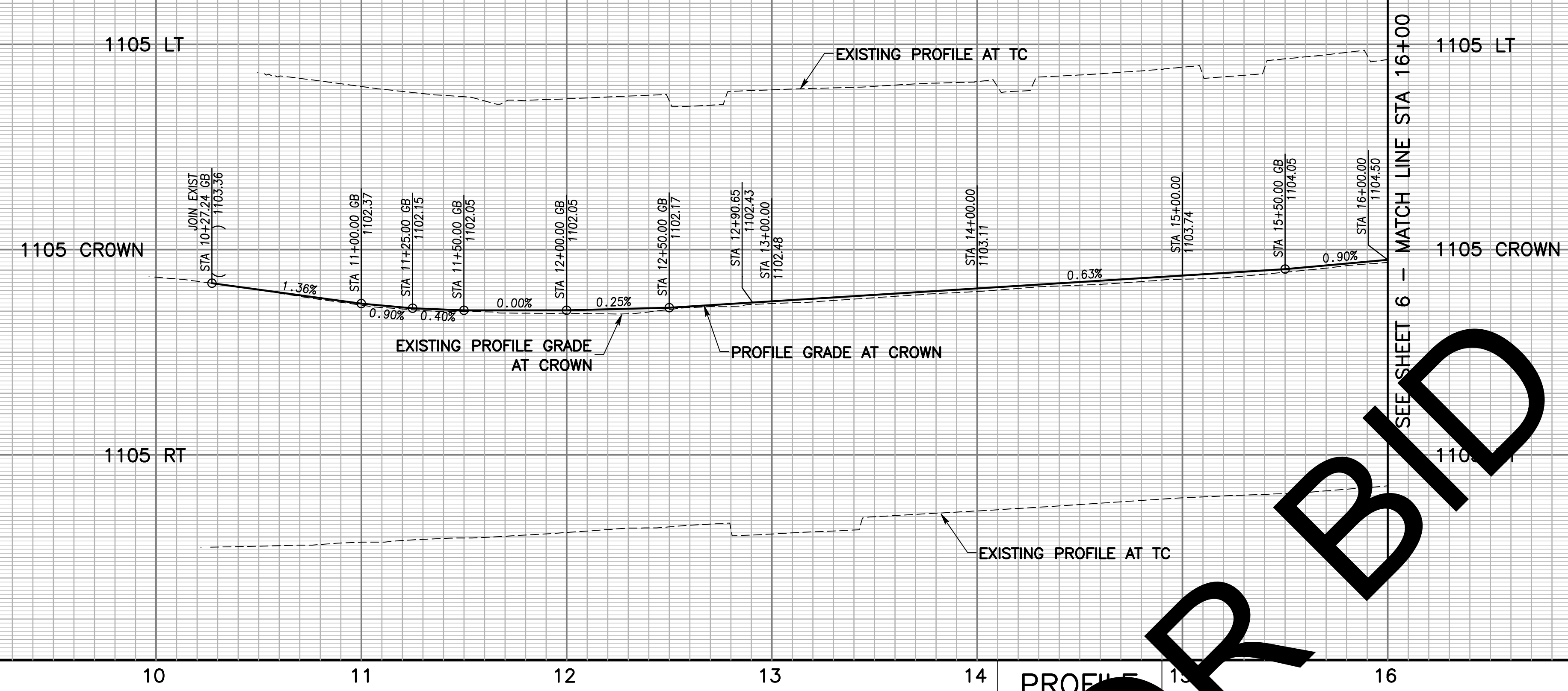
7/28/23
 DATE

Mervat N. Mikhail, P.E.
 DEPUTY DIRECTOR

BLOOMINGTON AVENUE
 CURB RAMP DETAILS
 LOCATIONS 1-7 (EXCLUDING 3)
 BLOOMINGTON

J.L. REF. W.O. NO. PLAN SCALE SHT. NO. TOT.SHTS.
 - TX1795 1'=5' 4 12

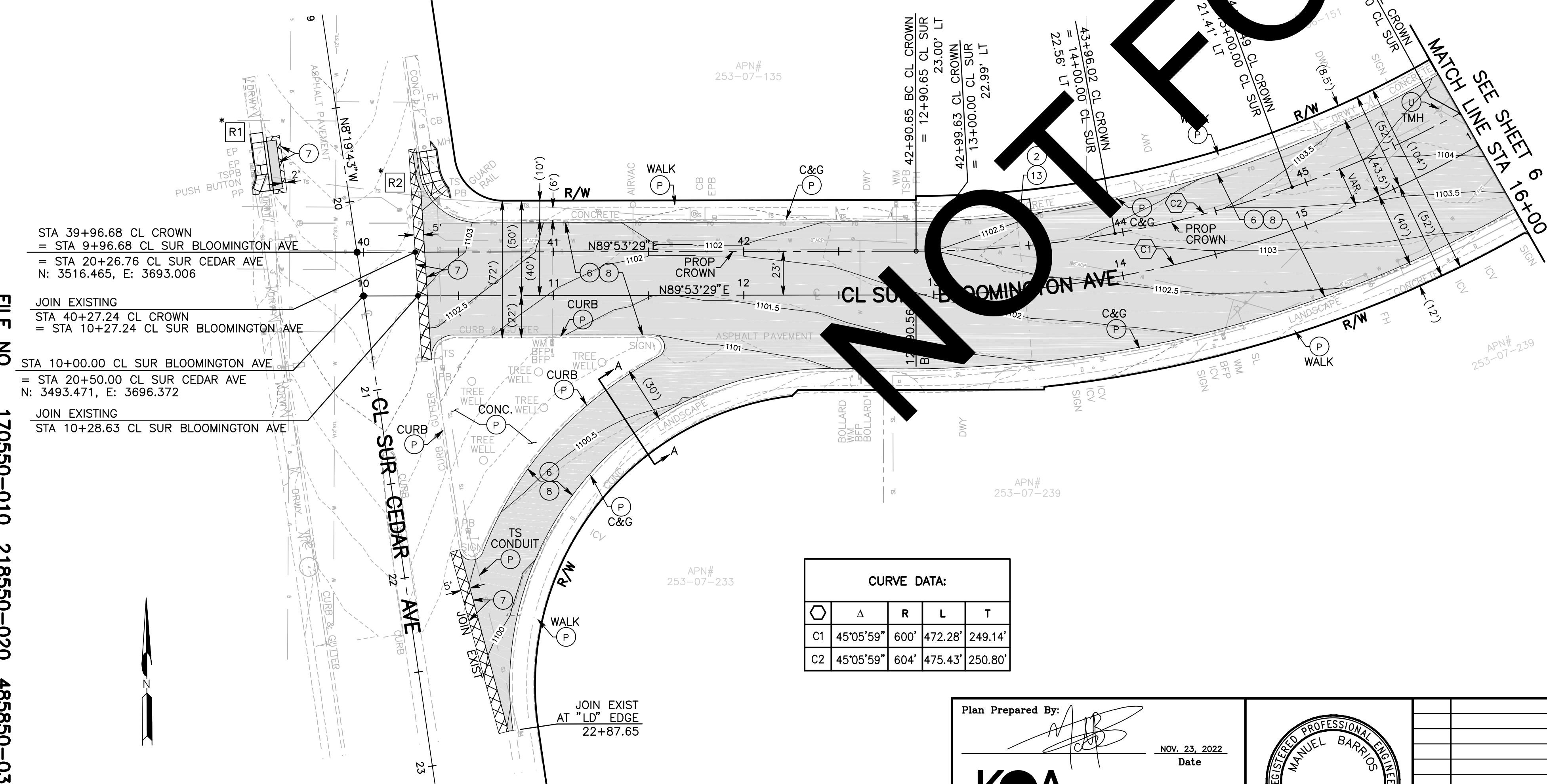




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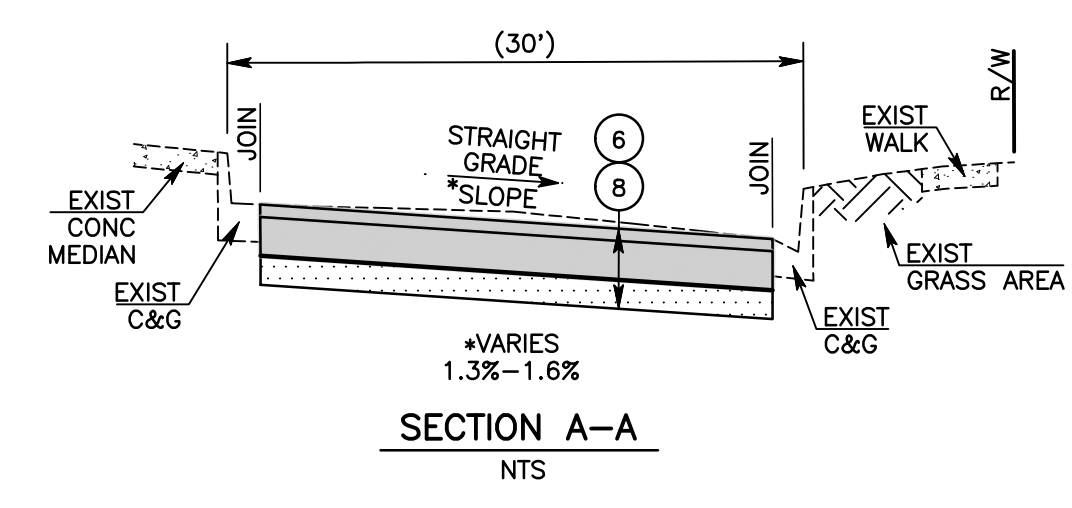
- CONSTRUCTION NOTES:
- U UTILITIES TO BE RESET BY OTHERS (ITEM PER PLAN) (SEE NOTE U. OF GENERAL NOTES ON EACH SHEET)
 - P PROTECT IN PLACE (ITEM PER PLAN)
 - 2 SAWCUT & REMOVE EXISTING CONCRETE SIDEWALK
 - 6 PULVERIZE EXISTING ASPHALT PAVEMENT, BASE LAYER, AND NATIVE MATERIAL TO A DEPTH OF 1.2' BELOW PROPOSED FINISHED SURFACE AND REMOVE TOP 0.75' OF PULVERIZED MATERIAL
 - 7 COLD PLANE EXISTING ASPHALT PAVEMENT, 0.20' THICK, OVERLAY WITH TYPE G, 3/4" AGGREGATE GRADATION, PG64-16 (RHMA) APPLY TACK COAT
 - 8 ADD 2% CEMENT TO REMAINING 0.45' PULVERIZED MATERIAL, PUT TO GRADE AND COMPACT. APPLY PRIME COAT, PLACE 0.55' TYPE A, 3/4" AGGREGATE GRADATION, PG70-10 PG (HMA), APPLY TACK COAT, PLACE 0.20' TYPE G, 3/4" AGGREGATE GRADATION, PG64-16 (RHMA)
 - 13 CONSTRUCT 4" CONCRETE SIDEWALK PER COUNTY STD 109, TYPE C (MODIFIED)

* R# REFER TO SHEET 4 FOR RAMP DETAILS



CURVE DATA:

| Δ | R | L | T |
|--------------|------|---------|---------|
| C1 45°05'59" | 600' | 472.28' | 249.14' |
| C2 45°05'59" | 604' | 475.43' | 250.80' |



ALL SIDEWALK REMOVALS AND CONSTRUCTION IS TO BE TAKEN TO THE NEAREST JOINT LINE

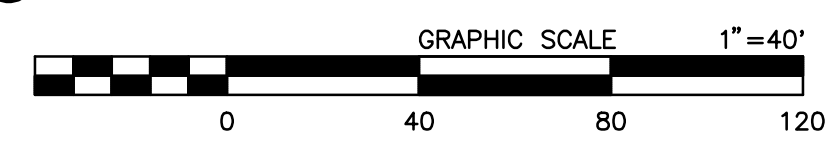
STA 39+96.68 CL CROWN
= STA 9+96.68 CL SUR BLOOMINGTON AVE
= STA 20+26.76 CL SUR CEDAR AVE
N: 3516.465, E: 3693.006

JOIN EXISTING
STA 40+27.24 CL CROWN
= STA 10+27.24 CL SUR BLOOMINGTON AVE

STA 10+00.00 CL SUR BLOOMINGTON AVE
= STA 20+50.00 CL SUR CEDAR AVE
N: 3493.471, E: 3696.372

JOIN EXISTING
STA 10+28.63 CL SUR BLOOMINGTON AVE

FILE NO. 170550-010, 218550-020, 485850-030



Plan Prepared By: *[Signature]*
NOV. 23, 2022
Date

KOA
2141 W. Orangewood Ave., Suite A
Orange, California 92868
Tel: (714) 573-0317 Fax: (714) 573-9534

REGISTERED PROFESSIONAL ENGINEER
MANUEL BARRIOS
No. C92491
CIVIL
STATE OF CALIFORNIA

| MARK | CHANGES | RESIDENT ENGINEER | DATE |
|------|------------|-------------------|------|
| | NO CHANGES | | |

FIELD CHANGES

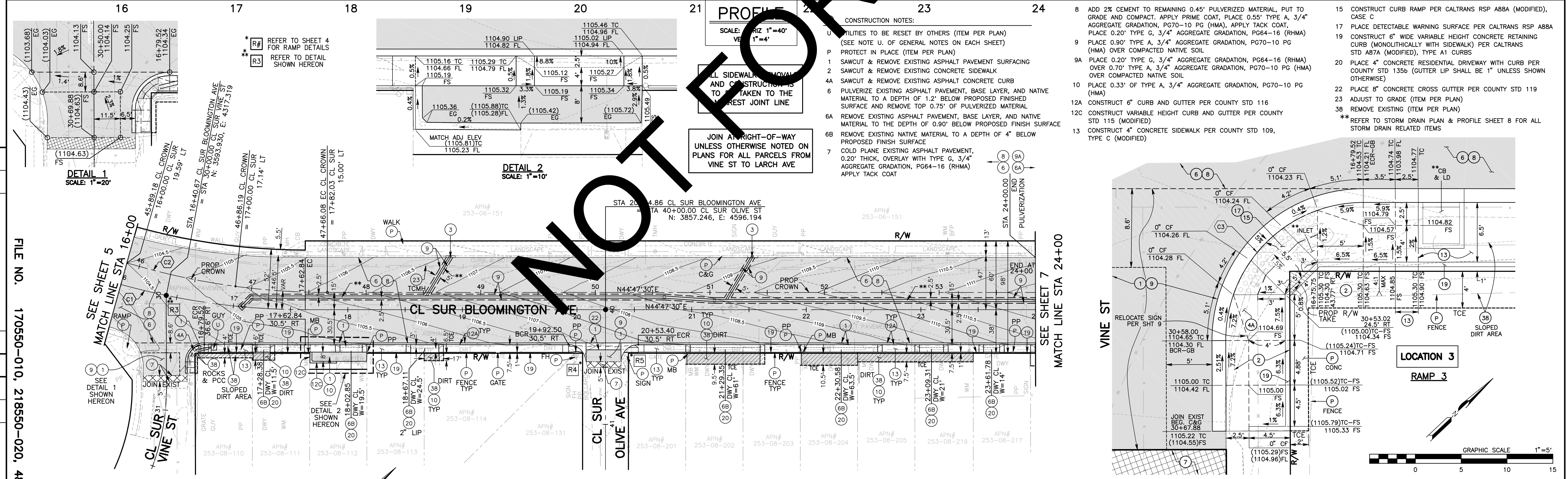
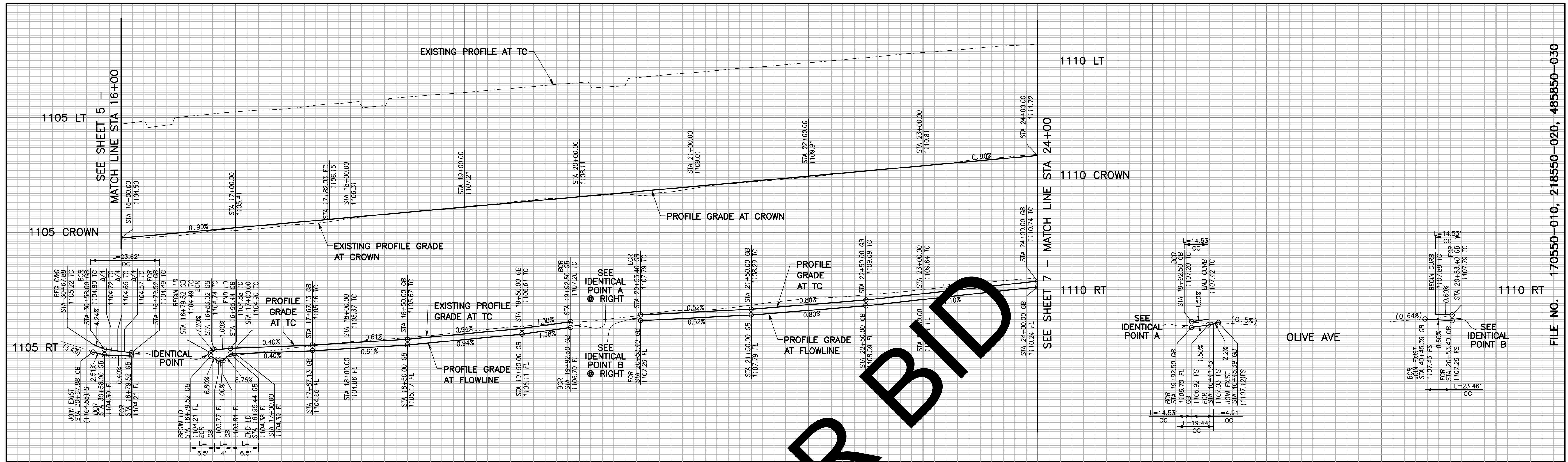
SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: MB
DRAWN BY: JM
CHECKED BY: MS
RECOMMENDED BY: *[Signature]* 08/08/2023
CHRIS NGUYEN, P.E.
ENGINEERING MANAGER

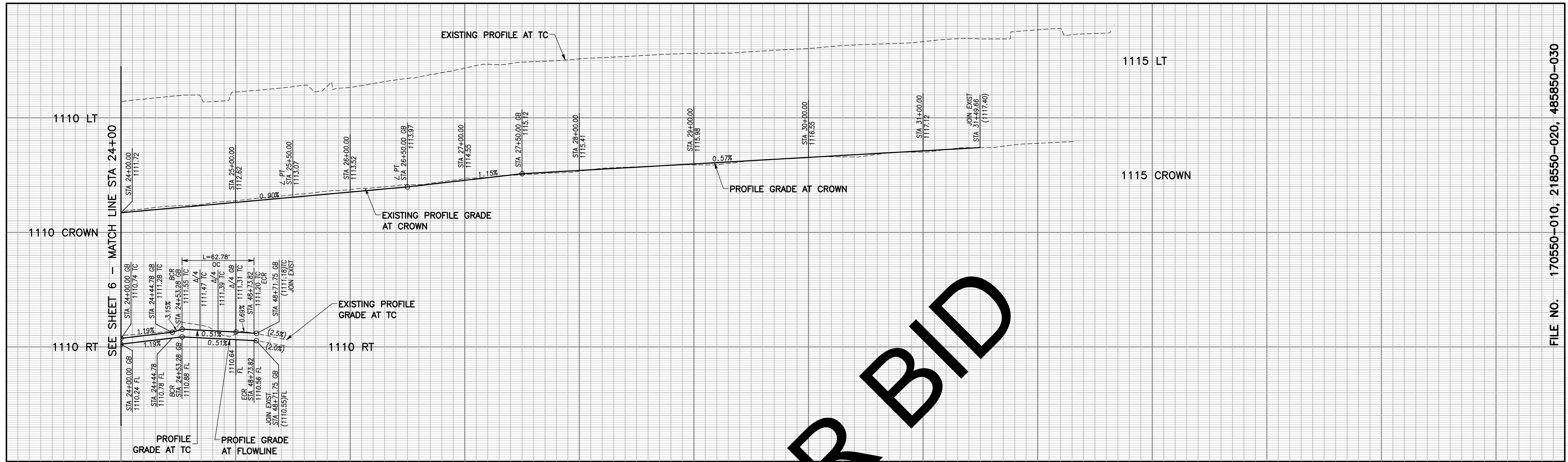
APPROVED BY: *[Signature]* 08/15/2023
THOMAS A. BUSTAMONTE, P.E.
SUPERVISING ENGINEER
7/28/23
DATE
MERYAT N. MIKHAIL, P.E.
DEPUTY DIRECTOR

BLOOMINGTON AVENUE
PLAN AND PROFILE
CIVIL IMPROVEMENTS
STA 10+00 - 16+00
BLOOMINGTON

| J.L. REF. | W.O. NO. | PLAN SCALE | SHT. NO. | TOT.SHTS. |
|-----------|----------|------------|----------|-----------|
| - | TX1795 | 1"=40' | 5 | 12 |



| <p>MARK REVISIONS</p> <table border="1"> <tr><th>MARK</th><th>REVISIONS</th></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table> | MARK | REVISIONS | | | | | <p>APPR. DATE</p> <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table> | | | | | <p>MARK REVISIONS</p> <table border="1"> <tr><th>MARK</th><th>REVISIONS</th></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table> | MARK | REVISIONS | | | | | <p>APPR. DATE</p> <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table> | | | | | <p>MARK REVISIONS</p> <table border="1"> <tr><th>MARK</th><th>REVISIONS</th></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table> | MARK | REVISIONS | | | | | <p>APPR. DATE</p> <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table> | | | | | | |
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| <p>FILE NO. 170550-010, 218550-020, 485850-030</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%;"> <tr> <td style="width: 20%;"> <p>Plan Prepared By:</p> <p><i>[Signature]</i></p> <p>KOA</p> <p>2141 W. Orangewood Ave., Suite A Orange, California 92668 Tel: (714) 573-0317 Fax: (714) 573-9534</p> </td> <td style="width: 10%;"> <p>DATE</p> <p>JULY 2023</p> </td> <td style="width: 10%; text-align: center;"> </td> <td style="width: 10%;"> <p>MARK CHANGES</p> <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table> </td> <td style="width: 10%;"> <p>RESIDENT ENGINEER</p> <p>DATE</p> </td> <td style="width: 10%;"> <p>FIELD CHANGES</p> </td> <td style="width: 10%;"> <p>SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS</p> <table border="1"> <tr> <td>DESIGNED BY: MB</td> <td>DRAWN BY: JM</td> <td>CHECKED BY: MS</td> <td>RECOMMENDED BY: <i>[Signature]</i></td> <td>DATE: 08/08/2023</td> </tr> <tr> <td colspan="4">APPROVED BY: <i>[Signature]</i></td> <td>DATE: 08/15/2023</td> </tr> </table> <p>Thomas Bustamonte SUPERVISING ENGINEER</p> <p>Mervat N. Mikhail, P.E. DEPUTY DIRECTOR</p> </td> <td style="width: 10%;"> <p>BLOOMINGTON AVENUE PLAN AND PROFILE</p> <p>CIVIL IMPROVEMENTS STA 16+00 - 24+00 BLOOMINGTON</p> <table border="1"> <tr> <td>J.L. REF.</td> <td>W.O. NO.</td> <td>PLAN SCALE</td> <td>SHT. NO.</td> <td>TOT. SHTS.</td> </tr> <tr> <td> </td> <td> </td> <td>1"=40'</td> <td>6</td> <td>12</td> </tr> </table> </td> </tr> </table> | | | | | | <p>Plan Prepared By:</p> <p><i>[Signature]</i></p> <p>KOA</p> <p>2141 W. Orangewood Ave., Suite A Orange, California 92668 Tel: (714) 573-0317 Fax: (714) 573-9534</p> | <p>DATE</p> <p>JULY 2023</p> | | <p>MARK CHANGES</p> <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table> | | | | | <p>RESIDENT ENGINEER</p> <p>DATE</p> | <p>FIELD CHANGES</p> | <p>SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS</p> <table border="1"> <tr> <td>DESIGNED BY: MB</td> <td>DRAWN BY: JM</td> <td>CHECKED BY: MS</td> <td>RECOMMENDED BY: <i>[Signature]</i></td> <td>DATE: 08/08/2023</td> </tr> <tr> <td colspan="4">APPROVED BY: <i>[Signature]</i></td> <td>DATE: 08/15/2023</td> </tr> </table> <p>Thomas Bustamonte SUPERVISING ENGINEER</p> <p>Mervat N. Mikhail, P.E. DEPUTY DIRECTOR</p> | DESIGNED BY: MB | DRAWN BY: JM | CHECKED BY: MS | RECOMMENDED BY: <i>[Signature]</i> | DATE: 08/08/2023 | APPROVED BY: <i>[Signature]</i> | | | | DATE: 08/15/2023 | <p>BLOOMINGTON AVENUE PLAN AND PROFILE</p> <p>CIVIL IMPROVEMENTS STA 16+00 - 24+00 BLOOMINGTON</p> <table border="1"> <tr> <td>J.L. REF.</td> <td>W.O. NO.</td> <td>PLAN SCALE</td> <td>SHT. NO.</td> <td>TOT. SHTS.</td> </tr> <tr> <td> </td> <td> </td> <td>1"=40'</td> <td>6</td> <td>12</td> </tr> </table> | J.L. REF. | W.O. NO. | PLAN SCALE | SHT. NO. | TOT. SHTS. | | | 1"=40' | 6 | 12 |
| <p>Plan Prepared By:</p> <p><i>[Signature]</i></p> <p>KOA</p> <p>2141 W. Orangewood Ave., Suite A Orange, California 92668 Tel: (714) 573-0317 Fax: (714) 573-9534</p> | <p>DATE</p> <p>JULY 2023</p> | | <p>MARK CHANGES</p> <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table> | | | | | <p>RESIDENT ENGINEER</p> <p>DATE</p> | <p>FIELD CHANGES</p> | <p>SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS</p> <table border="1"> <tr> <td>DESIGNED BY: MB</td> <td>DRAWN BY: JM</td> <td>CHECKED BY: MS</td> <td>RECOMMENDED BY: <i>[Signature]</i></td> <td>DATE: 08/08/2023</td> </tr> <tr> <td colspan="4">APPROVED BY: <i>[Signature]</i></td> <td>DATE: 08/15/2023</td> </tr> </table> <p>Thomas Bustamonte SUPERVISING ENGINEER</p> <p>Mervat N. Mikhail, P.E. DEPUTY DIRECTOR</p> | DESIGNED BY: MB | DRAWN BY: JM | CHECKED BY: MS | RECOMMENDED BY: <i>[Signature]</i> | DATE: 08/08/2023 | APPROVED BY: <i>[Signature]</i> | | | | DATE: 08/15/2023 | <p>BLOOMINGTON AVENUE PLAN AND PROFILE</p> <p>CIVIL IMPROVEMENTS STA 16+00 - 24+00 BLOOMINGTON</p> <table border="1"> <tr> <td>J.L. REF.</td> <td>W.O. NO.</td> <td>PLAN SCALE</td> <td>SHT. NO.</td> <td>TOT. SHTS.</td> </tr> <tr> <td> </td> <td> </td> <td>1"=40'</td> <td>6</td> <td>12</td> </tr> </table> | J.L. REF. | W.O. NO. | PLAN SCALE | SHT. NO. | TOT. SHTS. | | | 1"=40' | 6 | 12 | | | | | | |
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| | | 1"=40' | 6 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

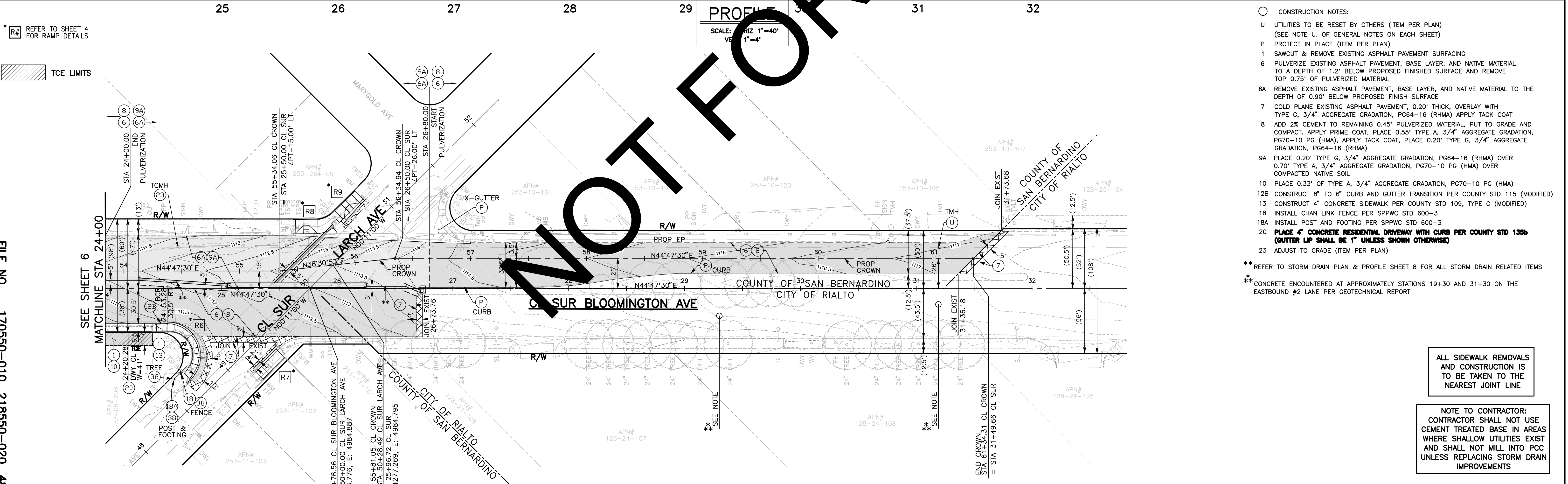


* REFER TO SHEET 4 FOR RAMP DETAILS

TCE LIMITS

FILE NO. 170550-010, 218550-020, 485850-030

| MARK | REVISIONS | DATE | APPR. |
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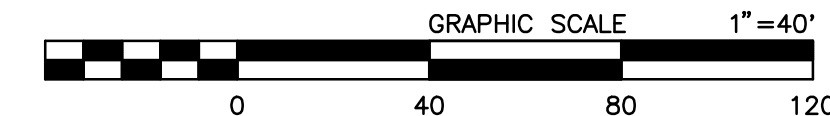


- CONSTRUCTION NOTES:
- UTILITIES TO BE RESET BY OTHERS (ITEM PER PLAN) (SEE NOTE U. OF GENERAL NOTES ON EACH SHEET)
 - PROTECT IN PLACE (ITEM PER PLAN)
 - SAWCUT & REMOVE EXISTING ASPHALT PAVEMENT SURFACING
 - PULVERIZE EXISTING ASPHALT PAVEMENT, BASE LAYER, AND NATIVE MATERIAL TO A DEPTH OF 1.2' BELOW PROPOSED FINISHED SURFACE AND REMOVE TOP 0.75' OF PULVERIZED MATERIAL
 - REMOVE EXISTING ASPHALT PAVEMENT, BASE LAYER, AND NATIVE MATERIAL TO THE DEPTH OF 0.90' BELOW PROPOSED FINISH SURFACE
 - COLD PLANE EXISTING ASPHALT PAVEMENT, 0.20" THICK, OVERLAY WITH TYPE G, 3/4" AGGREGATE GRADATION, PG64-16 (RHMA) APPLY TACK COAT
 - ADD 2% CEMENT TO REMAINING 0.45" PULVERIZED MATERIAL, PUT TO GRADE AND COMPACT. APPLY PRIME COAT, PLACE 0.55" TYPE A, 3/4" AGGREGATE GRADATION, PG70-10 PG (HMA), APPLY TACK COAT, PLACE 0.20" TYPE G, 3/4" AGGREGATE GRADATION, PG64-16 (RHMA)
 - PLACE 0.20" TYPE G, 3/4" AGGREGATE GRADATION, PG64-16 (RHMA) OVER 0.70" TYPE A, 3/4" AGGREGATE GRADATION, PG70-10 PG (HMA) OVER COMPACTED NATIVE SOIL
 - PLACE 0.33" OF TYPE A, 3/4" AGGREGATE GRADATION, PG70-10 PG (HMA)
 - CONSTRUCT 8" TO 6" CURB AND GUTTER TRANSITION PER COUNTY STD 115 (MODIFIED)
 - CONSTRUCT 4" CONCRETE SIDEWALK PER COUNTY STD 109, TYPE C (MODIFIED)
 - INSTALL CHAIN LINK FENCE PER SPPWC STD 600-3
 - INSTALL POST AND FOOTING PER SPPWC STD 600-3
 - PLACE 4" CONCRETE RESIDENTIAL DRIVEWAY WITH CURB PER COUNTY STD 135b (GUTTER LIP SHALL BE 1" UNLESS SHOWN OTHERWISE)
 - ADJUST TO GRADE (ITEM PER PLAN)
- ** REFER TO STORM DRAIN PLAN & PROFILE SHEET 8 FOR ALL STORM DRAIN RELATED ITEMS
- ** CONCRETE ENCOUNTERED AT APPROXIMATELY STATIONS 19+30 AND 31+30 ON THE EASTBOUND #2 LANE PER GEOTECHNICAL REPORT

ALL SIDEWALK REMOVALS AND CONSTRUCTION IS TO BE TAKEN TO THE NEAREST JOINT LINE

NOTE TO CONTRACTOR: CONTRACTOR SHALL NOT USE CEMENT TREATED BASE IN AREAS WHERE SHALLOW UTILITIES EXIST AND SHALL NOT MILL INTO PCC UNLESS REPLACING STORM DRAIN IMPROVEMENTS

JOIN AT RIGHT-OF-WAY UNLESS OTHERWISE NOTED ON PLANS FOR ALL PARCELS FROM VINE ST TO LARCH AVE



Plan Prepared By: *[Signature]*
 Date: JULY 2023
KOA
 2141 W. Orangewood Ave., Suite A
 Orange, California 92668
 Tel: (714) 573-0317 Fax: (714) 573-9534

REGISTERED PROFESSIONAL ENGINEER
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FIELD CHANGES

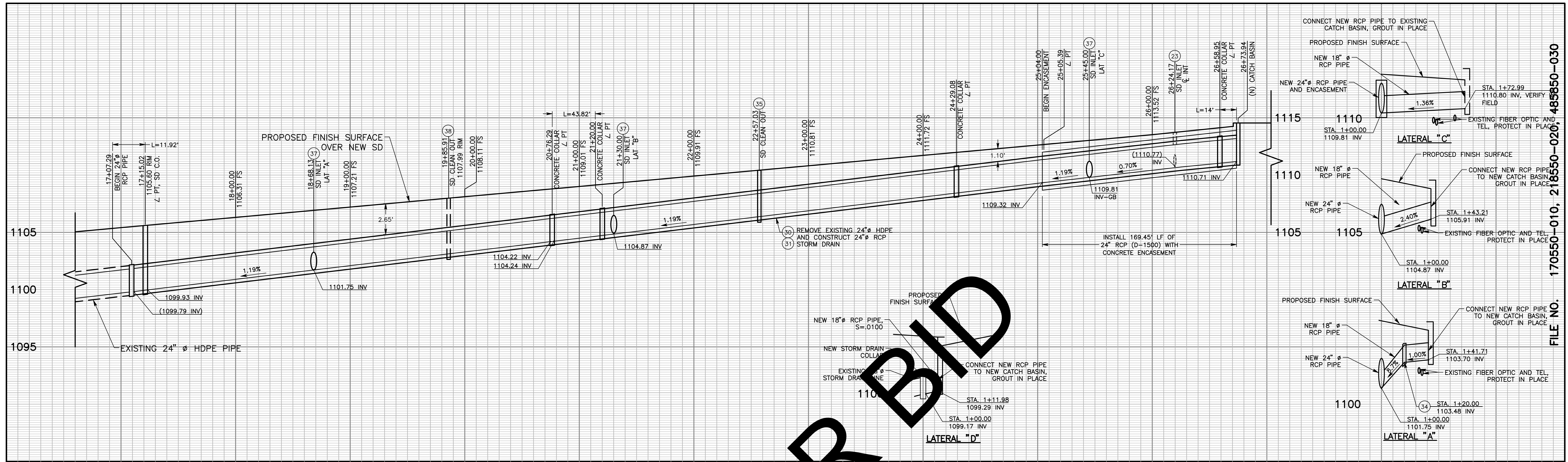
SAN BERNARDINO COUNTY
 DEPARTMENT OF PUBLIC WORKS

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|---|--------------|----------------|---|
| DESIGNED BY: MB | DRAWN BY: JM | CHECKED BY: MS | RECOMMENDED BY: <i>[Signature]</i> 08/08/2023 |
| APPROVED BY: <i>[Signature]</i> 7/28/23 | | | DATE: 08/15/2023 |

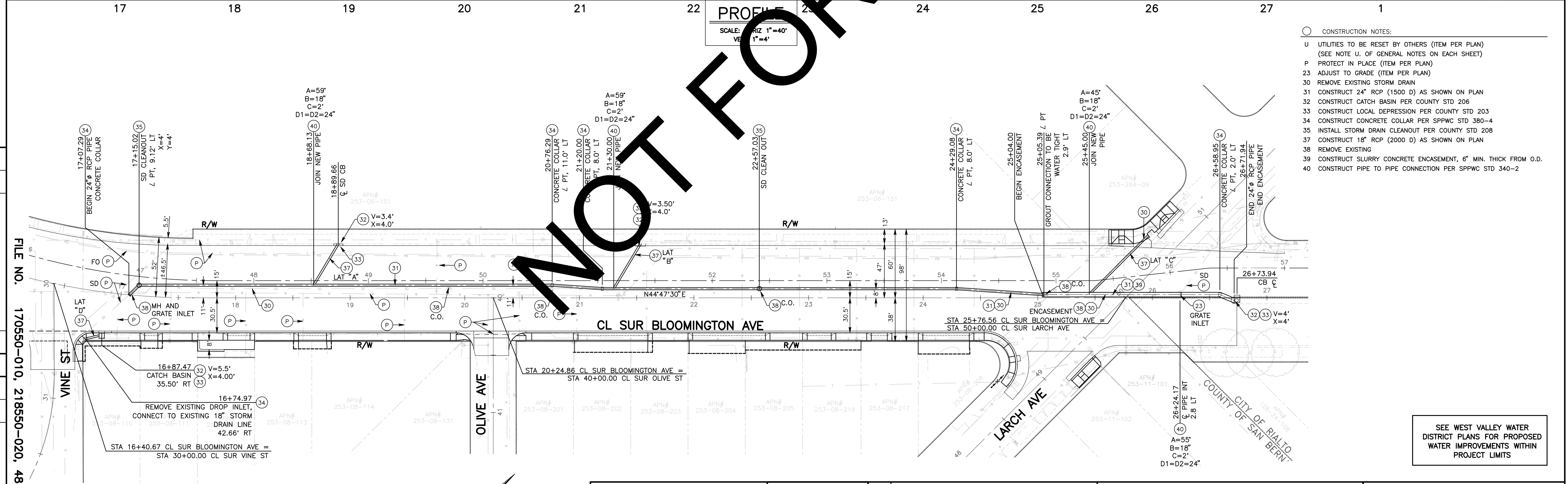
THOMAS A. BUSTAMONTE, P.E. SUPERVISING ENGINEER
 MERIAT N. MIKHAIL, P.E. DEPUTY DIRECTOR

BLOOMINGTON AVENUE PLAN AND PROFILE
 CIVIL IMPROVEMENTS
 STA 24+00 - 31+49.66
 BLOOMINGTON

| | | | | |
|-----------|----------|------------|----------|------------|
| JLL. REF. | W.O. NO. | PLAN SCALE | SHT. NO. | TOT. SHTS. |
| | | 1"=40' | 7 | 12 |



PROFILE
SCALE: HORIZ 1"=40'
VERT 1"=4'

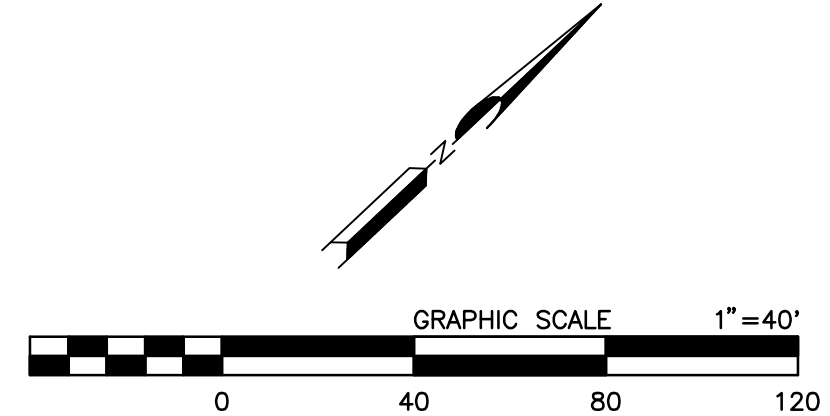


- CONSTRUCTION NOTES:
- U UTILITIES TO BE RESET BY OTHERS (ITEM PER PLAN)
 - (SEE NOTE U. OF GENERAL NOTES ON EACH SHEET)
 - P PROTECT IN PLACE (ITEM PER PLAN)
 - 23 ADJUST TO GRADE (ITEM PER PLAN)
 - 30 REMOVE EXISTING STORM DRAIN
 - 31 CONSTRUCT 24" RCP (1500 D) AS SHOWN ON PLAN
 - 32 CONSTRUCT CATCH BASIN PER COUNTY STD 206
 - 33 CONSTRUCT LOCAL DEPRESSION PER COUNTY STD 203
 - 34 CONSTRUCT CONCRETE COLLAR PER SPPWC STD 380-4
 - 35 INSTALL STORM DRAIN CLEANOUT PER COUNTY STD 208
 - 37 CONSTRUCT 18" RCP (2000 D) AS SHOWN ON PLAN
 - 38 REMOVE EXISTING
 - 39 CONSTRUCT SLURRY CONCRETE ENCASEMENT, 6" MIN. THICK FROM O.D.
 - 40 CONSTRUCT PIPE TO PIPE CONNECTION PER SPPWC STD 340-2

SEE WEST VALLEY WATER DISTRICT PLANS FOR PROPOSED WATER IMPROVEMENTS WITHIN PROJECT LIMITS

| MARK | REVISIONS | DATE | APPR. |
|------|-----------|------|-------|
| | | | |
| | | | |
| | | | |

FILE NO. 170550-010, 218550-020, 485850-030



Plan Prepared By: *[Signature]*
Date: MAY 22, 2023

KOA
2141 W. Orangewood Ave., Suite A
Orange, California 92668
Tel: (714) 573-0317 Fax: (714) 573-9534

REGISTERED PROFESSIONAL ENGINEER
MANUEL BARRIOS
No. C92491
CIVIL
STATE OF CALIFORNIA

| MARK | CHANGES | RESIDENT ENGINEER | DATE |
|------|------------|-------------------|------|
| | NO CHANGES | | |

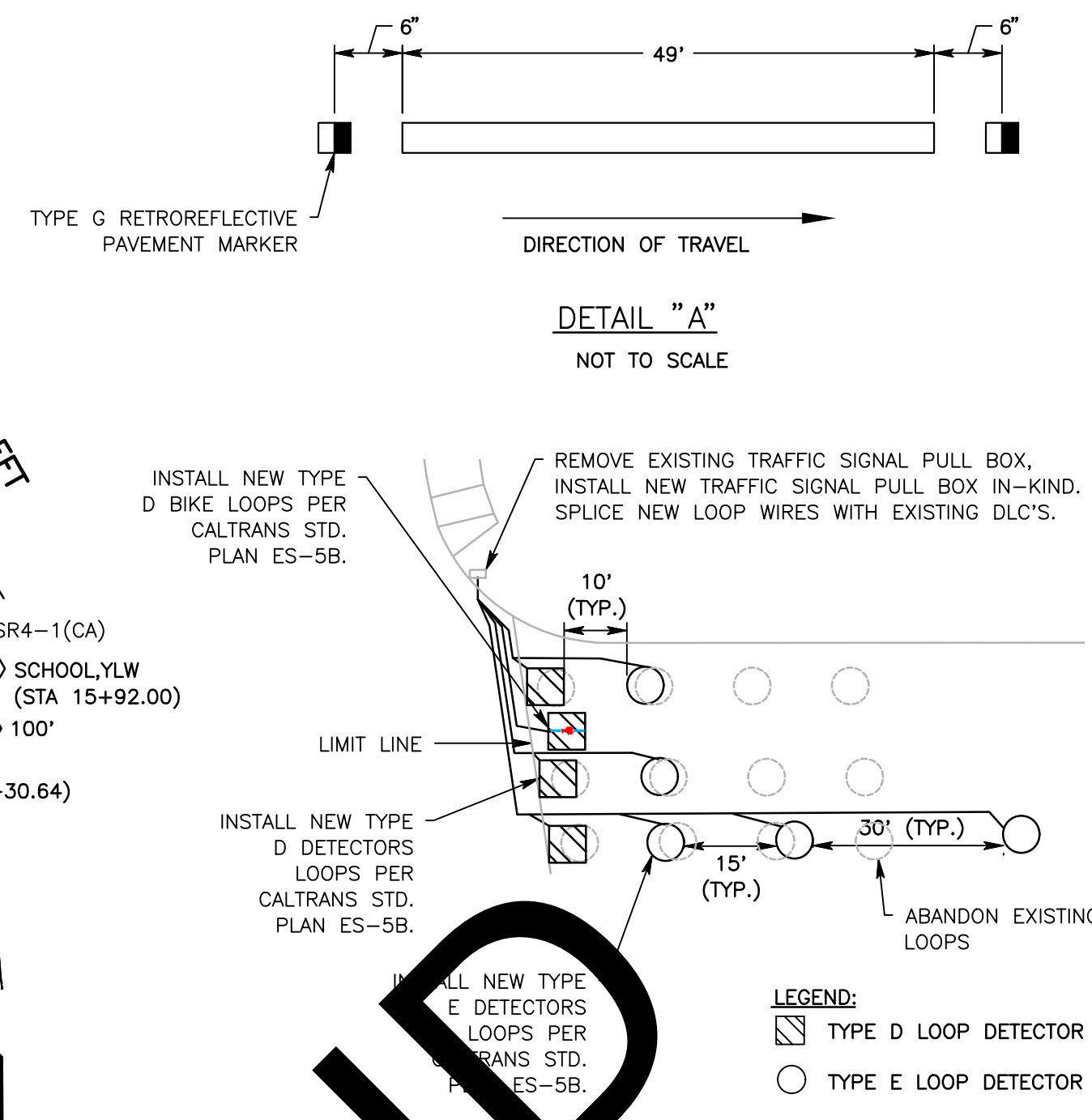
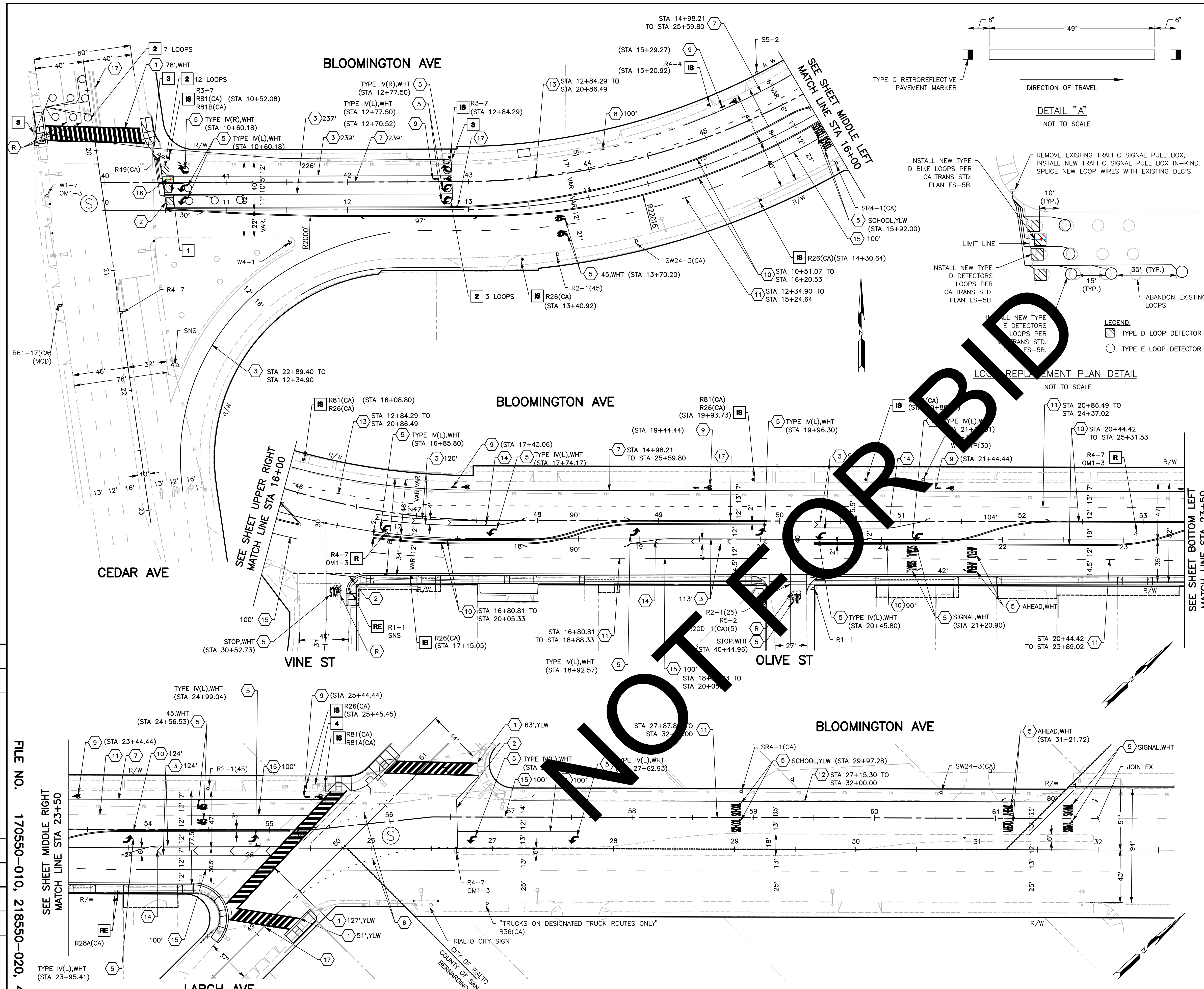
FIELD CHANGES

SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

| | | | | |
|---|--------------|----------------|---|--------------------|
| DESIGNED BY: MB | DRAWN BY: JH | CHECKED BY: MS | RECOMMENDED BY: <i>[Signature]</i> CHRIS NGUYEN, P.E. ENGINEERING MANAGER | 08/08/2023 DATE |
| APPROVED BY: <i>[Signature]</i> THOMAS A. BUSTAMANTE, P.E. SUPERVISING ENGINEER | | | 7/28/23 DATE | 08/15/2023 DATE |

**BLOOMINGTON AVENUE
PLAN AND PROFILE
STORM DRAIN
STA 16+00 - 27+00
BLOOMINGTON**

| | | | | |
|-----------|----------|------------|----------|-----------|
| J.L. REF. | W.O. NO. | PLAN SCALE | SHT. NO. | TOT.SHTS. |
| - | - | 1"=40' | 8 | 12 |



- STRIPING AND PAVEMENT MARKING NOTES:**
- *CONTRACTOR SHALL REMOVE AND REPLACE ALL DAMAGED STRIPING, PAVEMENT MARKINGS AND CURB MARKINGS, IN KIND. ALL STRIPING SHALL CONFORM TO CALTRANS STANDARD PLANS AND CAMUTCD, REV 4. SEE SIGNING AND STRIPING GENERAL NOTES ON SHEET 2.
 - INSTALL LADDER CROSSWALK MARKING PER CALTRANS STD PLAN A24F, 2' EDGE-TO EDGE LONGITUDINAL SPACING FOR ALL MARKING AND GAPS, WIDTH AND COLOR PER PLAN.
 - INSTALL 12" LIMIT LINE PER CALTRANS STD PLAN A24E.
 - INSTALL 8" CHANNELIZING LINE DETAIL 38 PER CALTRANS STD PLAN A20D.
 - INSTALL DOUBLE YELLOW NO PASSING ZONE DETAIL 22 PER CALTRANS STD PLAN A20A.
 - INSTALL PAVEMENT MARKING, TYPE AND COLOR PER PLAN.
 - INSTALL CENTERLINE EXTENSION DETAIL 41 PER CALTRANS STD PLAN A20D.
 - INSTALL 6" BIKE LANE LINE DETAIL 39 PER CALTRANS STD PLAN A20D.
 - INSTALL 6" INTERSECTION BIKE LANE LINE DETAIL 39A PER CALTRANS STD PLAN A20D.
 - INSTALL BIKE LANE SYMBOL WITH ARROW PER CALTRANS STD PLAN A24A.
 - INSTALL MEDIAN ISLAND DETAIL 29 PER CALTRANS STD PLAN A20B.
 - INSTALL 6" WHITE LANE STRIPE, DETAIL 12 PER CALTRANS STD PLAN A20A.
 - INSTALL 6" RIGHT EDGELINE DETAIL 27B PER CALTRANS STD PLAN A20B.
 - INSTALL 8" LANE DROP MARKING, DETAIL 37B PER CALTRANS STD PLAN A20C.
 - INSTALL 12" WHITE CHEVRON STRIPE @ 30' SPACING PER CA MUTCD 3B.24.05.
 - INSTALL 6" APPROACH/DEPARTURE STRIPING AND RAISED PAVEMENT MARKERS PER DETAIL "A".
 - INSTALL BIKE LOOP DETECTOR SYMBOL PER CALTRANS STD PLAN A24C.
 - INSTALL RETROREFLECTIVE MARKER TYPE BLUE PER CA MUTCD 3B.11 AND FIG. 3B-102(CA).
- R REMOVE ALL CONFLICTING STRIPING, MARKINGS, AND MARKERS BY WET GRINDING OR WET SANDBLASTING.**
- RE REMOVE ROADSIDE SIGN AND/OR POST AS SHOWN.**
- RE RELOCATE OR RESET ROADSIDE SIGN POST/PANEL PER CA MUTCD 2014, FIG 2A-2(CA) AS SHOWN ON PLAN.**
- RE INSTALL SIGN AND/OR POST AS SHOWN PER CA MUTCD 2014, FIG 2A-2(CA).**
- TRAFFIC SIGNAL NOTES:**
- FURNISH AND INSTALL TYPE D LOOP DETECTOR PER CALTRANS 2018 STANDARD PLANS ES-5A AND RSP ES-5B AND MAKE CONNECTION IN EXISTING OR NEW PULL BOX. THE CONTRACTOR SHALL TEST EACH LOOP CIRCUIT FOR CONTINUITY, CIRCUIT RESISTANCE AND INSULATION RESISTANCE AT THE CONTROLLER CABINET LOCATION. FURNISH AND INSTALL NEW DLC (TYPE B) FOR LOOP DETECTORS FROM PULL BOX TO THE CONTROLLER CABINET.
 - FURNISH AND INSTALL TYPE E LOOP DETECTOR PER CALTRANS 2018 STANDARD PLANS ES-5A AND RSP ES-5B AND MAKE CONNECTION IN EXISTING OR NEW PULL BOX. THE CONTRACTOR SHALL TEST EACH LOOP CIRCUIT FOR CONTINUITY, CIRCUIT RESISTANCE AND INSULATION RESISTANCE AT THE CONTROLLER CABINET LOCATION. FURNISH AND INSTALL NEW DLC (TYPE B) FOR LOOP DETECTORS FROM PULL BOX TO THE CONTROLLER CABINET.
 - SPLICE NEW LOOP WIRES INTO EXISTING DLC. IF DLC IS DAMAGED, THE CONTRACTOR SHALL REMOVE EXISTING DLC AND INSTALL NEW DLC TO THE CONTROLLER CABINET.
 - ADJUST VIDEO DETECTION ZONES TO ACCOMMODATE NEW STRIPING.
- SIGNING AND STRIPING LEGEND:**
- EXISTING STRIPING & MARKINGS TO REMAIN.
 - EXISTING STRIPING & MARKINGS TO BE REMOVED.
 - PROPOSED STRIPING & MARKINGS.
 - EXISTING SIGN AND POST TO REMAIN.
 - EXISTING SIGN AND POST TO BE REMOVED.
 - PROPOSED SIGN AND POST.

- SAN BERNARDINO COUNTY TRAFFIC CONTROL GENERAL NOTES**
- ALL SIGNING, STRIPING AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE CALIFORNIA MUTCD LATEST EDITION.
 - ALL STRIPING AND PAVEMENT MARKINGS SHALL BE PAINTED IN CONFORMANCE WITH THE CALTRANS 2018 STANDARD PLANS (DATED MAY 31, 2018).
 - ALL STRIPING (LONG LINE) AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAINT.
 - ALL SIGNS SHALL BE OF HIGH INTENSITY (FHWA TYPE III/IV) RETROREFLECTIVE SHEETING EXCEPT:
 - STOP SIGNS SHALL BE DIAMOND GRADE (FHWA TYPE VII IN RURAL SETTINGS AND TYPE IX IN URBAN SETTINGS) RETROREFLECTIVE SHEETING.
 - "NO PARKING" SIGNS SHALL BE OF SUPER ENGINEERING GRADE (FHWA TYPE II) RETROREFLECTIVE SHEETING.
 - SCHOOL SIGNS SHALL BE OF DIAMOND GRADE (FHWA TYPE IX) FLUORESCENT YELLOW-GREEN (FYG) RETROREFLECTIVE SHEETING.
 - STREET NAME MARKERS SHALL BE OF DIAMOND GRADE (FHWA TYPE IX) RETROREFLECTIVE SHEETING AND CONFORM TO COUNTY STANDARD 303
 - CONSTRUCTION SIGNS SHALL BE OF DIAMOND GRADE (FHWA TYPE IX) FLUORESCENT ORANGE RETROREFLECTIVE SHEETING.
 - ALL DELINEATORS, CHANNELIZERS, AND OBJECT MARKERS SHALL BE OF FHWA TYPE VII RETROREFLECTIVE SHEETING.
 - SIGNS SHALL BE MOUNTED ON METAL POSTS SIMILAR TO COUNTY STANDARDS 303(a) AND 303(b)
 - ALL CONFLICTING STRIPING AND PAVEMENT MARKINGS NOT SHOWN ON PLANS SHALL BE REMOVED BY THE CONTRACTOR. REMOVAL SHALL BE ACCOMPLISHED BY SANDBLASTING, GRINDING, OR AS DIRECTED BY COUNTY REPRESENTATIVE.
 - ALL CONFLICTING STRIPING AND PAVEMENT MARKINGS NOT SHOWN ON PLANS SHALL BE REMOVED BY THE CONTRACTOR. REMOVAL SHALL BE ACCOMPLISHED BY SANDBLASTING, GRINDING, OR AS DIRECTED BY COUNTY REPRESENTATIVE.
 - ALL UNPROTECTED LOCATIONS RESULTING IN ISOLATED ABRUPT DEPRESSIONS OR ELEVATED OBJECTS (I.E. CATCH BASINS, HEADWALLS, POWER POLES, END TREATMENT OF ASPHALT DIKES AND CONCRETE CURBS) SHALL BE PROTECTED BY DELINEATORS OR BARRIERS PER THE CALIFORNIA MUTCD LATEST EDITION.
 - ALL EXISTING SIGNING, STRIPING AND PAVEMENT MARKINGS (I.E. CROSS STREET STOP, STOP LIMIT LINE, AND CROSSWALK PAVEMENT MARKINGS) NOT SHOWN ON PLANS, IF REMOVED/OBLITERATED, SHALL BE REPLACED/RESTORED OF SAME KIND, AND IN CONFORMANCE WITH THE CALIFORNIA MUTCD LATEST EDITION.
 - THE CONTRACTOR SHALL NOTIFY COUNTY REPRESENTATIVE TO SCHEDULE A FINAL REVIEW (WALK THROUGH) WITH TRAFFIC DIVISION PERSONNEL FOR APPROVAL OF TRAFFIC CONTROL DEVICES PRIOR TO PROJECT ACCEPTANCE. REV 8/8/2017

| MARK | REVISIONS | DATE | APPR. |
|------|-----------|------|-------|
| | | | |
| | | | |
| | | | |

FILE NO. 170550-010, 218550-020, 485850-030

Plan Prepared By: *[Signature]* JULY 2023 Date

KOA
2141 W. Orangewood Ave., Suite A
Orange, California 92668
Tel: (714) 573-0317 Fax: (714) 573-9534



| | | | |
|----------------------|------------|-------------------|------|
| MARK | CHANGES | RESIDENT ENGINEER | DATE |
| | NO CHANGES | | |
| FIELD CHANGES | | | |
| | | | |

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

| | | | |
|-----------------|--------------|----------------|--|
| DESIGNED BY: JM | DRAWN BY: JM | CHECKED BY: AS | RECOMMENDED BY: <i>[Signature]</i> 08/08/2023 DATE |
| | | | |
| | | | |
| | | | |

APPROVED BY: *[Signature]* 8/8/23 DATE
LEI LI, P.E. SUPERVISING ENGINEER
GRANT MANN, P.E. DEPUTY DIRECTOR

BLOOMINGTON AVENUE
SIGNING & STRIPING
BLOOMINGTON AREA

| | | | | |
|-----------|----------|------------|----------|-----------|
| J.L. REF. | W.O. NO. | PLAN SCALE | SHT. NO. | TOT.SHTS. |
| | TX1795 | 1"=40' | 9 | 12 |

TRAFFIC SIGNAL GENERAL NOTES

- 1 - TRAFFIC SIGNAL AND LIGHTING SHALL CONFORM TO THE STATE OF CALIFORNIA 2018 STANDARD SPECIFICATIONS (DATED 2018) SECTIONS 86(ELECTRICAL WORK) AND 87(ELECTRICAL SYSTEMS), AND STANDARD PLANS DATED 2018, INCLUDING LATEST REVISIONS.
- 2 - ALL VEHICLE SIGNAL INDICATIONS SHALL BE 12-INCH AND SHALL BE INSTALLED WITH "LED" SIGNAL MODULES.
- 3 - ALL PEDESTRIAN SIGNAL INDICATIONS SHALL BE INSTALLED WITH "LED" PEDESTRIAN MODULES. PEDESTRIAN SIGNAL HEADS SHALL COME WITH COUNTDOWN PEDESTRIAN SIGNAL. SEE PROJECT SPECIAL PROVISIONS.
- 4 - SIGNAL POLE LOCATIONS ARE APPROXIMATE.
- 5 - ALL BACK PLATES SHALL BE LOUVERED.
- 6 - ALL BACK PLATES AND VISORS SHALL BE METAL, NO PLASTIC PARTS WILL BE ALLOWED
- 7 - ALL PULL BOXES SHALL BE NO. 6 UNLESS OTHERWISE NOTED. THE TOP OF THE PULL BOXES SHALL BE FLUSH WITH FINISHED GRADE AS SHOWN ON THE CALTRANS 2018 STANDARD PLAN RSP ES-8A
- 8 - PULL BOXES SHALL BE INSTALLED PER CALTRANS STANDARD PLAN RSP ES-8A AND SHALL NOT BE INSTALLED IN OR WITHIN A CURB ACCESS RAMP.
- 9 - PULL BOXES LOCATED IN ROADWAYS OR SHOULDER AREAS SUBJECT TO TRAFFIC SHALL BE TRAFFIC TYPE PER CALTRANS STANDARD PLAN RSP ES-8B.
- 10 - COUPLING NUTS SHALL BE USED FOR ALL TYPE (1-A) POLES PER CALTRANS STANDARD RSP ES-7B.
- 11 - PEDESTRIAN PUSH BUTTON SHALL BE WITH PLACARD R10-3 SIZE 9"X12" AND PER CALTRANS STANDARD PLANS RSP ES-7A AND RSP ES-5C (TYPE B).
- 12 - ALL SIGNAL AND LIGHTING STANDARD FOUNDATIONS SHALL BE ADJUSTED TO PROPOSED FINISHED GRADE.
- 13 - ALL UNUSED TENONS SHALL BE CAPPED.
- 14 - ALL WIRING AND CABLES SHALL BE NEW UNLESS OTHERWISE NOTED.
- 15 - ALL NEW CONDUIT SHALL BE MINIMUM 4-INCH SCHEDULE 80 ELECTRICAL GRADE PVC AT A MINIMUM 36-INCH DEPTH INCLUDING A 12-INCH SAND ZONE COVERING.
- 16 - LOCATION OF ALL UNDERGROUND FACILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL POTHOLE TO DETERMINE THE EXACT LOCATIONS AND VERIFY ALL CONDITIONS ON THE JOB SITE. HAND DIG FOUNDATIONS UNTIL CLEAR OF ANY OBSTRUCTIONS. PHONE THE UNDERGROUND SERVICE ALERT AT (800) 227-2600, TWO WORKING DAYS BEFORE DIGGING.
- 17 - THE CONTRACTOR SHALL NOTIFY THE COUNTY REPRESENTATIVE TO SCHEDULE A FIELD REVIEW WITH TRAFFIC DIVISION TO VERIFY THE LOCATION OF SIGNAL POLES, CONTROLLER CABINET, AND SERVICE CABINET.

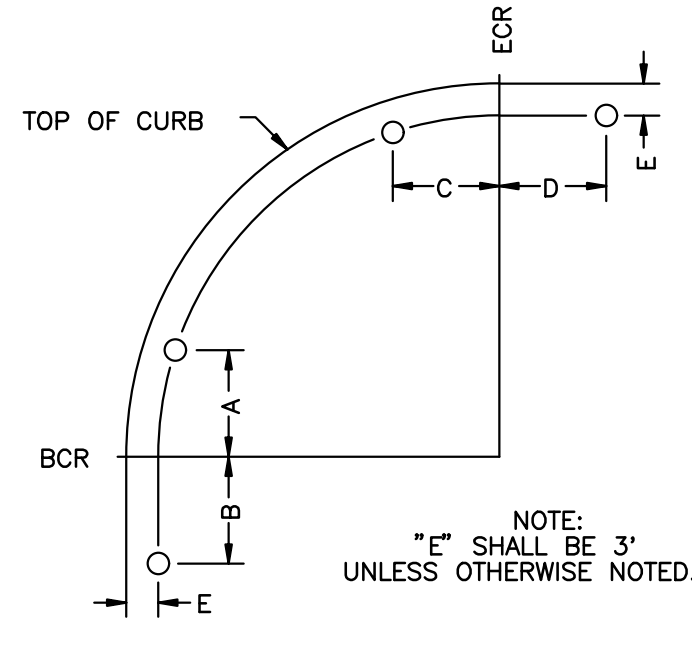
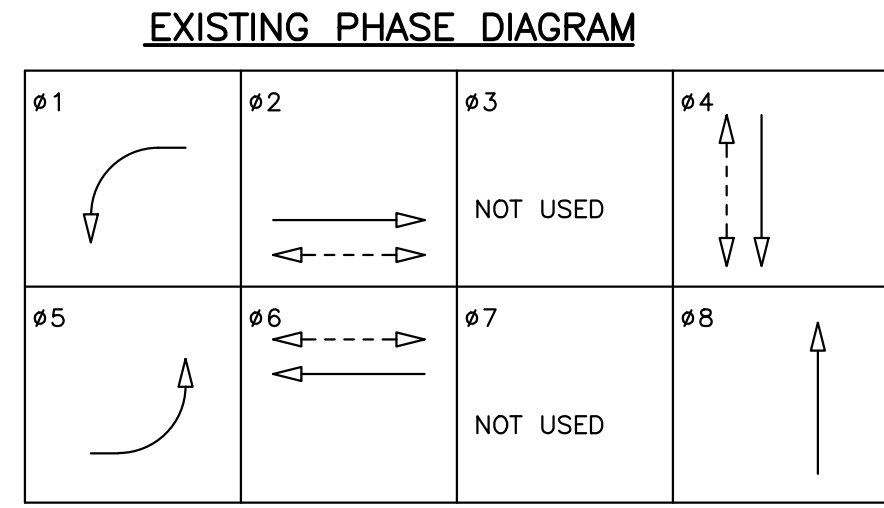
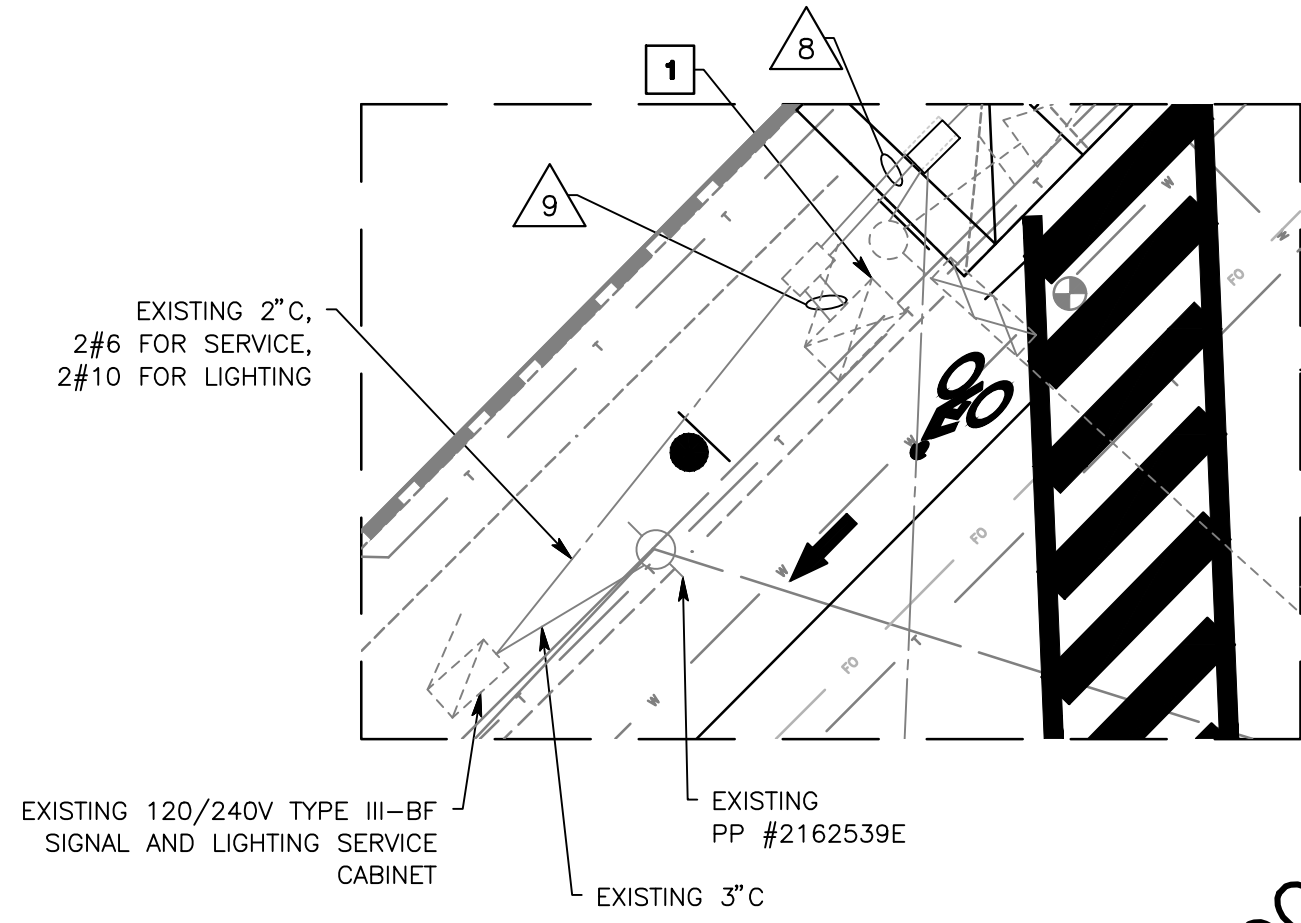
MARYGOLD AVENUE

AVENUE

AVENUE

BLOOMINGTON

LARCH



| CONDUCTOR SCHEDULE | | | | | | | | | | |
|--------------------|--------------------------------|------|---------|---------|---------|-------|-----|--------|---------|---------|
| AWG | CABLE | RUNS | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 12 CSC | (A) #1, #6 | - | - | - | - | - | - | - | 1/1(RE) | 1/1(RE) |
| | (B) #4PPB | - | - | - | - | - | - | 0/1(N) | 0/1(N) | 0/1(N) |
| | (C) #4, #8, #4P, #6P, #6PPB | - | - | - | - | - | - | 1/1 | 1/1 | 1/1 |
| | (D) #8, #6PPB | - | - | - | - | - | 1/1 | 1/1 | 1/1 | 1/1 |
| | (E) #6P | - | - | - | - | 1/0 | 1/0 | 1/0 | 1/0 | 1/0 |
| | (F) #5, #6 | - | - | - | - | 1/0 | 1/0 | 1/0 | 1/0 | 1/0 |
| | (G) #2, #5 | 1/0 | 1/0 | 1/0 | 1/0 | - | - | - | 1/0 | 1/0 |
| | (H) #4, #8, #2P | - | 1/1(RE) | 1/1(RE) | 1/1(RE) | - | - | - | 1/1(RE) | 1/1(RE) |
| | (I) #2PPB | - | 0/1(N) | 0/1(N) | 0/1(N) | - | - | - | 0/1(N) | 0/1(N) |
| | (J) #4 | - | 1/1(RE) | 1/1(RE) | 1/1(RE) | - | - | - | 1/1(RE) | 1/1(RE) |
| 3 CSC | (K) #2PPB, #4PPB | - | - | - | 0/2(N) | - | - | - | 0/2(N) | 0/2(N) |
| | (L) #1, #2, #2P | - | - | - | 1/0 | - | - | - | 1/0 | 1/0 |
| | TOTAL CABLES | 1 | 2 | 3 | 4 | 2 | 3 | 4 | 9 | 2 |
| | | 0 | 1(N) | 2(RE) | 3(N) | 2(RE) | 0 | 1 | 2 | 4(N) |
| | | | | | | | | | | |
| #10 | LUMINAIRE | 2 | 2 | 2 | 2 | - | 2 | 2 | 2 | - |
| #6 | SIGNAL SERVICE | - | - | - | - | - | - | - | - | 2 |
| | EVP CA | 1 | 1 | 2 | 2 | - | 1 | 1 | 4 | 4 |
| | 3#16 VIDEO POWER CABLE | 1 | 1 | 2 | 2 | - | 1 | 1 | 4 | 4 |
| | VIDEO CABLE | 1 | 1 | 2 | 2 | - | 1 | 1 | 4 | 4 |
| | SOLID CORE LMR COAX CABLE (SC) | - | - | - | - | - | - | 1 | 1 | 1 |
| | CONDUIT SIZE | 2" | 3" | 4" | 4" | 2" | 3" | 4" | 2-4" | 2-4" |
| | CONDUIT FILL (%) | 29 | 22 | 22 | 28 | 30 | 29 | 22 | 29 | 30 |

ALL CONDUITS AND CONDUCTORS ARE EXISTING UNLESS OTHERWISE NOTED. (N) = NEW (RE) = REMOVED

| POLE SCHEDULE | | | | | | | | | | | | | | | | | | |
|---------------|-------------|---------|--------------------|-----------------------|-----------|-------------------------|---------|------------------|-----------|---------------|---|-----|-------|------|------------------|------|--------|-----------------|
| NO. | TYPE | HEIGHT | SIGNAL M.A. LENGTH | LUMINAIRE M.A. LENGTH | LED WATTS | VEHICLE SIGNAL MOUNTING | | PED. PUSH BUTTON | | POLE LOCATION | | | | | STREET NAME SIGN | | | |
| | | | | | | M.A. | VEH. | PED. | PHASE | ARROW | A | B | C | D | E | TYPE | LEGEND | |
| (A) | 27-4-100 | 17' | 45' | - | - | 2-MAS | SV-1-T | - | 4(RE) | - | - | - | - | - | - | - | R.R. | Larch Ave |
| (B) | PPB POST(N) | 5'7"(N) | - | - | - | - | - | - | 4(N) | - | - | 3' | - | 3' | - | - | - | - |
| (C) | 15TS | 30' | - | 15' | 82 LED | - | SV-2-TA | SP-2-T | 6 | - | - | - | - | - | - | - | - | - |
| (D) | 19-4-100 | 30' | 25' | 15' | 82 LED | MAS | SV-1-T | - | 6 | - | - | - | - | - | - | - | R.R. | Bloomington Ave |
| (E) | 1-A | 7' | - | - | - | - | - | TP-1-T | - | - | - | - | - | - | - | - | - | - |
| (F) | 1-A | 10' | - | - | - | - | - | TV-2-T | - | - | - | - | - | - | - | - | - | - |
| (G) | 29-5-100 | 30' | 50' | 15' | 82 LED | 2-MAS | SV-1-T | - | - | - | - | - | - | - | - | - | R.R. | Larch Ave |
| (H) | 15TS | 30' | - | - | 82 LED | - | SV-2-TA | SP-1-T | 2(RE) | - | - | - | - | - | - | - | - | - |
| (I) | PPB POST(N) | 5'7"(N) | - | - | - | - | - | - | 2(N) | - | - | 16' | - | 9' | - | - | - | - |
| (J) | 17-3-100 | 30' | 20' | 15' | 82 LED | MAS | SV-1-T | SP-1-T | 2(RE) | - | - | - | - | - | - | - | R.R. | Bloomington Ave |
| (K) | PPB POST(N) | 5'7"(N) | - | - | - | - | - | - | 2,4(N) | - | - | - | 19.5' | 5.5' | - | - | - | - |
| (L) | 1-A | 10' | - | - | - | - | - | TV-2-T | TP-1-T(R) | - | - | - | - | - | - | - | - | - |

ALL NEW SIGNAL POLES AND MAST ARMS SHALL CONFORM TO CALTRANS STANDARDS PLANS (LATEST EDITION). ALL EQUIPMENT SHOWN IS EXISTING UNLESS OTHERWISE NOTED. (N) - INDICATES NEW EQUIPMENT. (R) - INDICATES RELOCATED EQUIPMENT. (RE) - INDICATES REMOVED EQUIPMENT. R.R. - RETROREFLECTIVE STREET NAME SIGN (DOUBLE SIDED).

TRAFFIC CONTROL CONSTRUCTION NOTES

- 1 PROTECT IN PLACE EXISTING TYPE 90 NEMA CONTROLLER ASSEMBLY IN EXISTING TYPE "R" CONTROLLER CABINET.
- 2 FURNISH AND INSTALL TYPE B PEDESTRIAN PUSH BUTTON ASSEMBLIES WITH R10-3 SIGN (9inchx12inch) INCLUDING BRACKETS OR HARDWARE FOR 90 DEGREE INSTALLATION OF PEDESTRIAN PUSH BUTTON ASSEMBLIES ON SINGLE POST PER THE CALTRANS STANDARD PLANS RSP ES-5C (DETAIL B) AND RSP ES-7A. PUSH BUTTON SHALL BE INSTALLED ON CROSSWALK SIDE OF STANDARD.
- 3 FURNISH AND INSTALL 3-CONDUCTOR SIGNAL CABLE (3CSC) FROM EACH PEDESTRIAN BUTTON TO THE CONTROLLER ASSEMBLY.
- 4 FURNISH AND INSTALL 2inch SCHEDULE 80 ELECTRICAL GRADE PVC CONDUIT FROM PEDESTRIAN PUSH BUTTON POST INTO NEW OR EXISTING PULL BOX AS SHOWN ON PLAN.
- 5 FURNISH AND INSTALL NEW #6 TRAFFIC SIGNAL PULL BOX IN EXISTING CONDUIT RUN AS SHOWN ON PLAN AND PER THE CALTRANS 2018 STANDARD PLAN RSP ES-8A.
- 6 REMOVE EXISTING PEDESTRIAN PUSH BUTTON ASSEMBLY ON THE EXISTING SIGNAL POLE. ANY REMAINING HOLES SHALL BE CAPPED. REMOVE EXISTING 3CSC FROM CONDUIT FOR ADDITIONAL CAPACITY.
- 7 REMOVE EXISTING PULL BOX.
- 8 RELOCATE EXISTING PEDESTRIAN HEAD TO SIGNAL POLE AS SHOWN ON PLAN.
- 9 REMOVE EXISTING SIGNAL STANDARDS, EQUIPMENT, CABLES, AND ADJACENT CONDUIT. REMOVE FOUNDATION COMPLETE.

SERVICE ADDRESS: 9902 BLOOMINGTON AVE BLOOMINGTON, CA 92316

Plan Prepared By: *[Signature]* JULY 2023 Date

KOA
2141 W. Orangewood Ave., Suite A
Orange, California 92668
Tel: (714) 573-0317 Fax: (714) 573-9534



| SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS | | | |
|--|--------------|----------------------------------|--|
| DESIGNED BY: AS | DRAWN BY: CG | CHECKED BY: AS | RECOMMENDED BY: <i>[Signature]</i> 08/08/2023 DATE |
| APPROVED BY: <i>[Signature]</i> 8/8/23 DATE | | GRANT MANN, P.E. DEPUTY DIRECTOR | |

| FIELD CHANGES | | | | |
|---------------|------------|-------------------|------|--|
| MARK | CHANGES | RESIDENT ENGINEER | DATE | |
| | NO CHANGES | | | |

BLOOMINGTON AVENUE
AT LARCH AVENUE
TRAFFIC MODIFICATION PLAN
BLOOMINGTON AREA

J.L. REF. W.O. NO. PLAN SCALE SHT. NO. TOT.SHTS.
- TX1795 1"=20' 10 12

| REVISIONS | DATE | APPR. |
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| | | |
| | | |

FILE NO. 170550-010, 218550-020, 485850-030

FILE NO. 170550-010, 218550-020, 485850-030

EROSION AND SEDIMENT CONTROL NOTES:

SEDIMENTS FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON-SITE USING AN EFFECTIVE COMBINATION OF EROSION AND SEDIMENT CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE, AND STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TRACKING, OR WIND.

WASTE AND MATERIALS MANAGEMENT CONTROL NOTES:

APPROPRIATE BEST MANAGEMENT PRACTICES (BMPs) FOR CONSTRUCTION-RELATED MATERIALS, WASTES, SPILLS OR RESIDUES SHALL BE IMPLEMENTED AND RETAINED ON-SITE TO MINIMIZE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTY BY WIND OR RUNOFF.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) NOTES:

IN THE CASE OF EMERGENCY, CALL:

AT WORK PHONE #

AT HOME PHONE #

1. SEDIMENT FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON-SITE USING STRUCTURAL CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE.
2. STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TRACKING, OR WIND.
3. APPROPRIATE BMPs FOR CONSTRUCTION-RELATED MATERIALS, WASTES, SPILLS SHALL BE IMPLEMENTED TO MINIMIZE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTIES BY WIND OR RUNOFF.
4. RUNOFF FROM EQUIPMENT AND VEHICLE WASHING SHALL BE CONTAINED AT CONSTRUCTION SITES UNLESS TREATED TO REDUCE OR REMOVE SEDIMENT AND OTHER POLLUTANTS.
5. ALL CONSTRUCTION CONTRACTOR AND SUBCONTRACTOR PERSONNEL ARE TO BE MADE AWARE OF THE REQUIRED BEST MANAGEMENT PRACTICES AND GOOD HOUSEKEEPING MEASURES FOR THE PROJECT SITE AND ANY ASSOCIATED CONSTRUCTION STAGING AREAS.
6. AT THE END OF EACH DAY OF CONSTRUCTION ACTIVITY ALL CONSTRUCTION DEBRIS AND WASTE MATERIALS SHALL BE COLLECTED AND PROPERLY DISPOSED IN TRASH OR RECYCLE BINS.
7. CONSTRUCTION SITES SHALL BE MAINTAINED IN SUCH A CONDITION THAT AN ANTICIPATED STORM DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITE. DISCHARGES OF MATERIAL OTHER THAN STORMWATER ONLY WHEN NECESSARY FOR PERFORMANCE AND COMPLETION OF CONSTRUCTION PRACTICES AND WHERE THEY DO NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF ANY WATER QUALITY STANDARD; CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR NUISANCE; OR CONTAIN A HAZARDOUS SUBSTANCE IN A QUANTITY REPORTABLE UNDER FEDERAL REGULATIONS 40 CFR PARTS 117 AND 302.
8. POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS; WASTES FROM PAINTS, STAINS, SEALANTS, GLUES, LIMES, PESTICIDES, HERBICIDES, WOOD PRESERVATIVES AND SOLVENTS; ASBESTOS FIBERS, PAINT FLAKES OR STUCCO FRAGMENTS; FUELS, OILS, LUBRICANTS, AND HYDRAULIC, RADIATOR OR BATTERY FLUIDS; FERTILIZERS, VEHICLE/EQUIPMENT WASH WATER AND CONCRETE WASH WATER; CONCRETE, DETERGENT OR FLOATABLE WASTES; WASTES FROM ANY ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING AND SUPERCHLORINATED POTABLE WATER LINE FLUSHING.

DURING CONSTRUCTION, PERMITTEE SHALL DISPOSED OF SUCH MATERIALS IN A SPECIFIED AND CONTROLLED TEMPORARY AREA ON-SITE, PHYSICALLY SEPARATED FROM POTENTIAL STORMWATER RUNOFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.

9. DEWATERING OF CONTAMINATED GROUNDWATER, OR DISCHARGING CONTAMINATED SOILS VIA SURFACE EROSION IS PROHIBITED. DEWATERING OF NON-CONTAMINATED GROUNDWATER REQUIRES A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT FROM THE RESPECTIVE STATE REGION WATER QUALITY CONTROL BOARD.
10. GRADED AREAS ON THE PERMITTED AREA PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPES AT THE CONCLUSION OF EACH WORKING DAY. DRAINAGE IS TO BE DIRECTED TOWARD DESILTING FACILITIES.
11. THE PERMITTEE AND CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.
12. THE PERMITTEE AND CONTRACTOR SHALL INSPECT THE EROSION CONTROL WORK AND INSURE THAT THE WORK IS IN ACCORDANCE WITH THE APPROVED PLANS.
13. THE PERMITTEE SHALL NOTIFY ALL GENERAL CONTRACTORS, SUBCONTRACTORS, MATERIAL SUPPLIERS, LESSEES, AND PROPERTY OWNERS: THAT DUMPING OF CHEMICALS INTO THE STORM DRAIN SYSTEM OR THE WATERSHED IS PROHIBITED.
14. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON-SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
15. ALL REMOVABLE EROSION PROTECTIVE DEVICES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5-DAY RAIN PROBABILITY FORECAST EXCEEDS 40%.
16. SEDIMENTS FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON-SITE USING AN EFFECTIVE COMBINATION OF EROSION AND SEDIMENT CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE, AND STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TRACKING, OR WIND.
17. APPROPRIATE BMPs FOR CONSTRUCTION-RELATED MATERIALS, WASTES, SPILLS OR RESIDUES SHALL BE IMPLEMENTED AND RETAINED ON-SITE TO MINIMIZE TRANSPORT FROM THE SITES TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTY BY WIND OR RUNOFF.

AS THE PROJECT OWNER OR AUTHORIZED AGENT OF THE OWNER, I HAVE READ AND UNDERSTAND THE REQUIREMENT TO CONTROL STORM WATER POLLUTION FROM SEDIMENTS, EROSION, AND CONSTRUCTION MATERIALS, AND I CERTIFY THAT I WILL COMPLY WITH THESE REQUIREMENTS, I, OR MY REPRESENTATIVE, CONTRACTOR, DEVELOPER, OR ENGINEER WILL MAKE CERTAIN THAT ALL BMPs SHOWN ON THIS PLAN WILL BE FULLY IMPLEMENTED, AND ALL EROSION CONTROL DEVICES WILL BE KEPT CLEAN AND FUNCTIONING. PERIODIC INSPECTION OF THE BMPs WILL BE CONDUCTED AND A CURRENT LOG, SPECIFYING THE EXACT NATURE OF THE INSPECTION AND ANY REMEDIAL MEASURES, WILL BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES AND WILL BE AVAILABLE FOR THE REVIEW BY THE APPROPRIATE OFFICIAL(S).

AS THE PROJECT OWNER OR AUTHORIZED AGENT OF OWNER, "I CERTIFY THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASE ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE INFORMATION SUBMITTED IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT SUBMITTING FALSE AND/OR INACCURATE INFORMATION, FAILING TO UPDATE THE SWPPP TO REFLECT CURRENT CONDITIONS, OR FAILING TO PROPERLY AND/OR ADEQUATELY IMPLEMENT THE EROSION CONTROL PLAN MAY RESULT IN REVOCATION OF GRADING AND/OR OTHER PERMITS OR OTHER SANCTION PROVIDED BY LAW."

PROJECT MANAGER _____ DATE _____

STORM WATER POLLUTION PLAN NOTES:

1. EVERY EFFORT SHOULD BE MADE TO ELIMINATE THE DISCHARGE OF NON-STORM WATER FROM THE PROJECT SITE AT ALL TIMES.
2. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON-SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES, OR WIND.
3. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
4. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
5. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON-SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
6. TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
7. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEEPED UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
8. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
9. AS THE PROJECT OWNER OR AUTHORIZED AGENT OF THE OWNER, I HAVE READ AND UNDERSTAND THE REQUIREMENTS LISTED ABOVE, NECESSARY TO CONTROL STORM WATER POLLUTION FROM SEDIMENTS, EROSION, AND CONSTRUCTION MATERIALS, AND I CERTIFY THAT I WILL COMPLY WITH THESE REQUIREMENTS.

PRINT NAME: _____

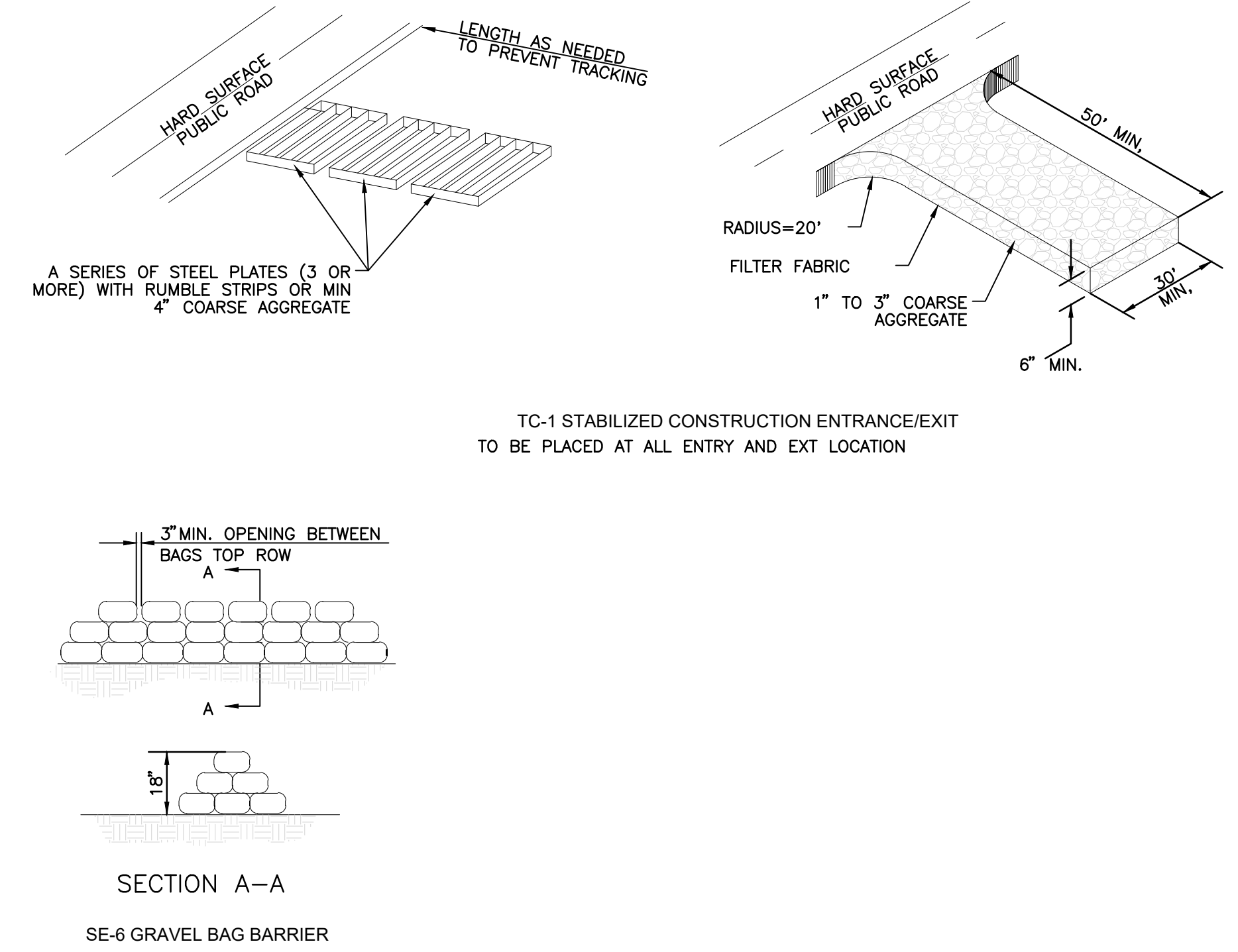
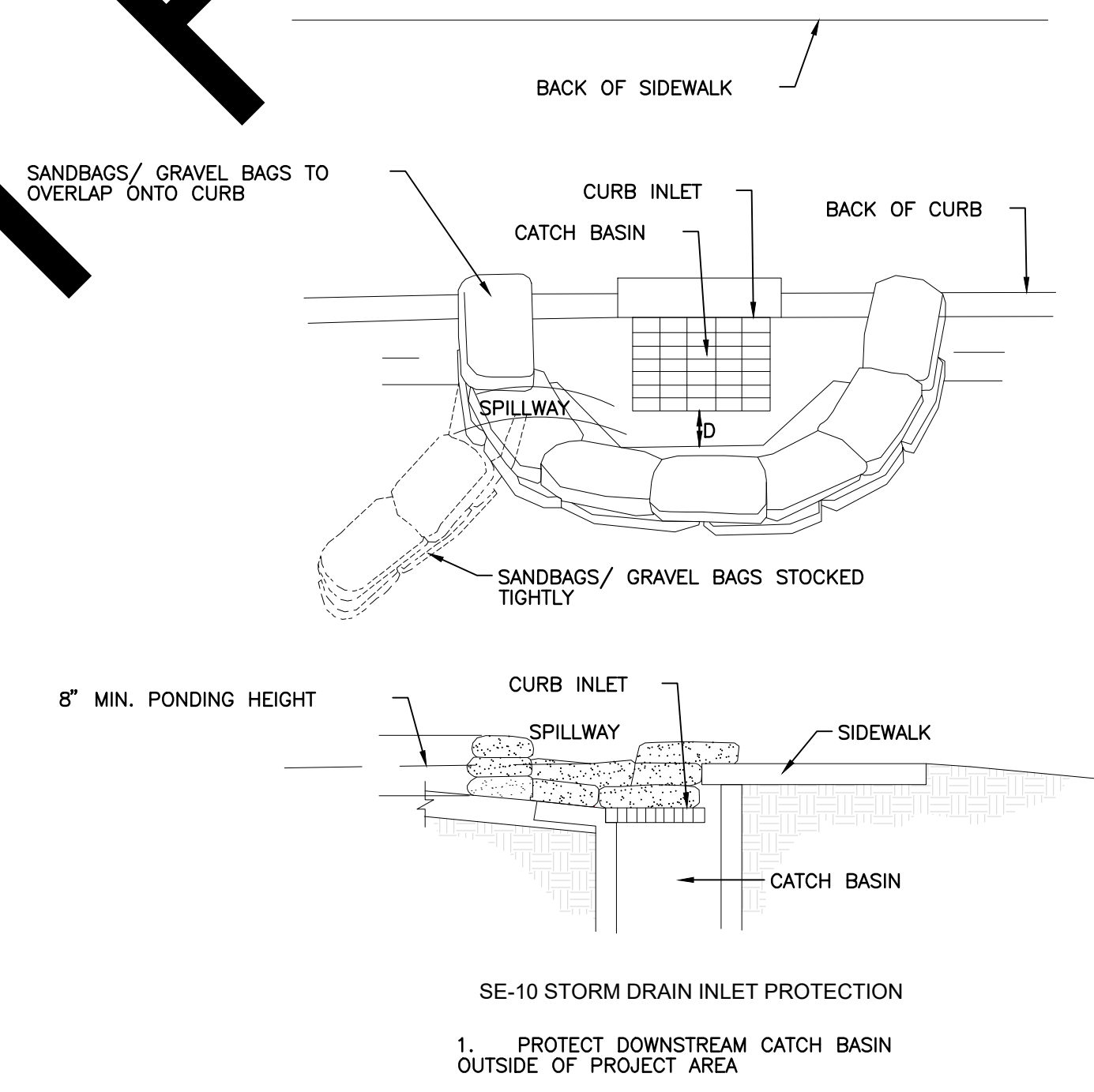
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THE FOLLOWING BMPs FROM THE LATEST ADDITION OF THE CASQA CONSTRUCTION BMP HANDBOOK (NOVEMBER 2009) MUST BE IMPLEMENTED AS APPLICABLE FOR ALL CONSTRUCTION ACTIVITIES. ADDITIONAL INFORMATION IS AVAILABLE AT WWW.CABMPHANDBOOKS.COM

TEMPORARY SEDIMENT CONTROL:
SE-6 GRAVEL BAG BERM
SE-10 STORM DRAIN INLET PROTECTION

EQUIPMENT TRACKING CONTROL:
TC-1 STABILIZED CONSTRUCTION ENTRANCE/EXIT
TC-3 ENTRANCE/OUTLET TIRE WASH

NOT FOR BID



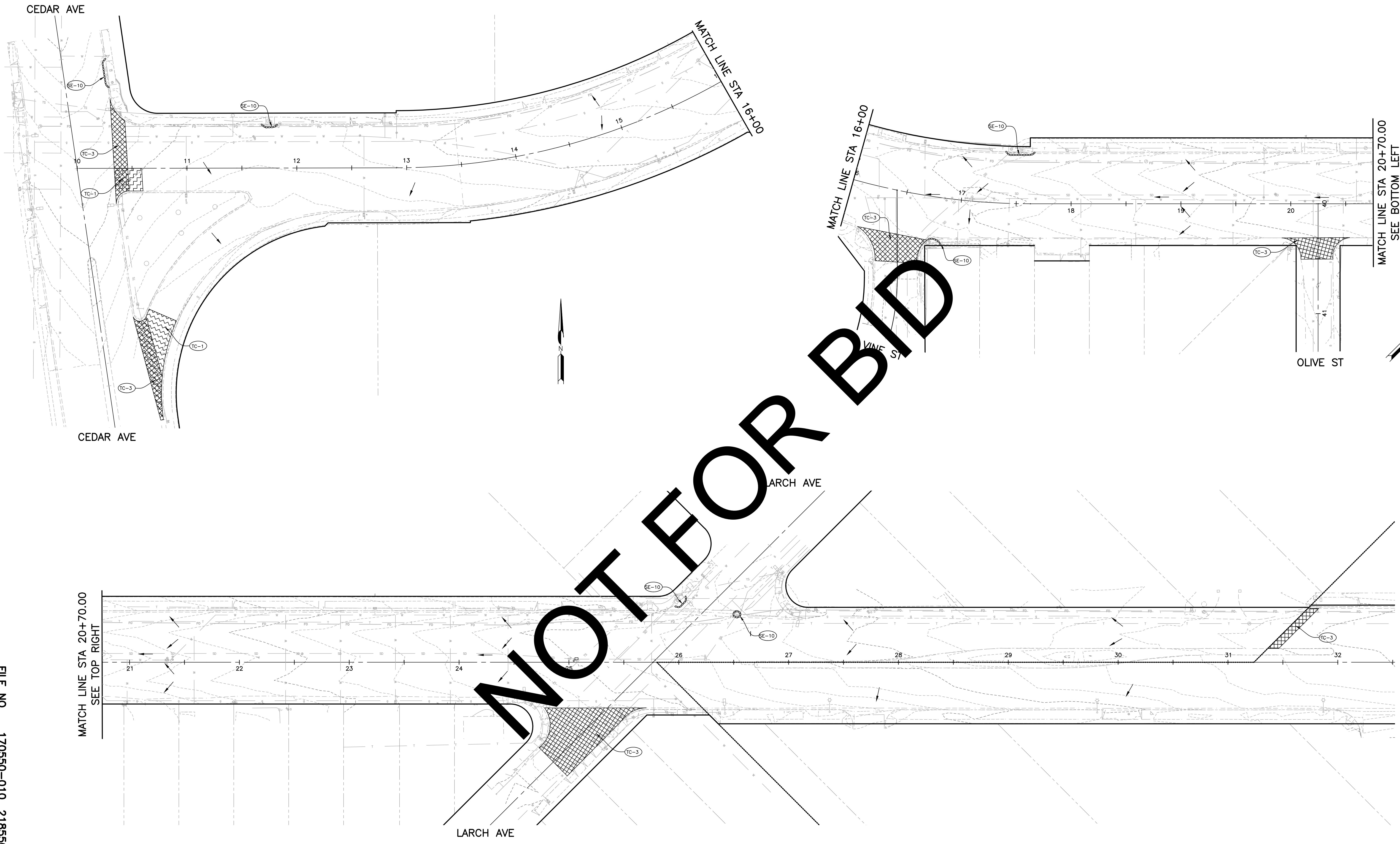
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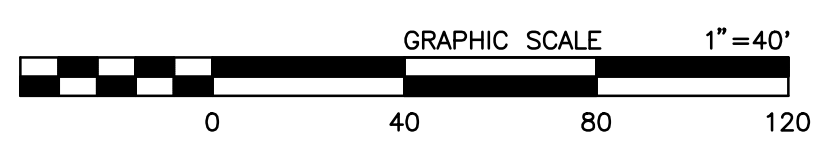
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| Plan Prepared By: KOA 2141 W. Orangewood Ave., Suite A Orange, California 92868 Tel: (714) 573-0317 Fax: (714) 573-9534 | JULY 2023 Date | | SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS | | | | BLOOMINGTON AVENUE EROSION CONTROL PLAN GENERAL NOTES AND DETAILS BLOOMINGTON | |
| | | | DESIGNED BY: MB | DRAWN BY: JLH | CHECKED BY: MS | RECOMMENDED BY: CHRIS NGUYEN, P.E. ENGINEERING MANAGER | | 08/08/2023 DATE |
| FIELD CHANGES | | | APPROVED BY: THOMAS A. BUSTAMONTE, P.E. SUPERVISING ENGINEER | 7/28/23 DATE | APPROVED BY: MERVAT N. MIKHAIL, P.E. DEPUTY DIRECTOR | 08/15/2023 DATE | | |
| | | | | J.L. REF. | W.O. NO. | PLAN SCALE NTS | SHT. NO. 11 | TOT.SHTS. 12 |



NOT FOR BID

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FILE NO. 170550-010, 218550-020, 485850-030



Plan Prepared By: *[Signature]*
 Date: JULY 2023

KOA
 2141 W. Orangewood Ave., Suite A
 Orange, California 92868
 Tel: (714) 573-0317 Fax: (714) 573-9534



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|------|---------|-------------------|------|
| MARK | CHANGES | RESIDENT ENGINEER | DATE |
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FIELD CHANGES

| SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS | | | |
|--|------------------|-------------------|--|
| DESIGNED BY: MB | DRAWN BY: JLH | CHECKED BY: MS | RECOMMENDED BY: <i>[Signature]</i> CHRIS NGUYEN, P.E. ENGINEERING MANAGER |
| APPROVED BY: <i>[Signature]</i> THOMAS A. BUSTAMONTE, P.E. SUPERVISING ENGINEER | | | DATE: 08/08/2023 |
| APPROVED BY: <i>[Signature]</i> MERVAT N. MIKHAIL, P.E. DEPUTY DIRECTOR | | | DATE: 08/15/2023 |

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| BLOOMINGTON AVENUE EROSION CONTROL PLAN | | | | |
| STA 10+00.00 - 32+00.00 | | | | |
| BLOOMINGTON | | | | |
| J.L. REF. | W.O. NO. | PLAN SCALE | SHT. NO. | TOT. SHTS. |
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