# CITY OF SANTA ROSA

IMPROVEMENT PLANS FOR

# B STREET AND 3RD STREET RIGHT TURN POCKET IMPROVEMENTS

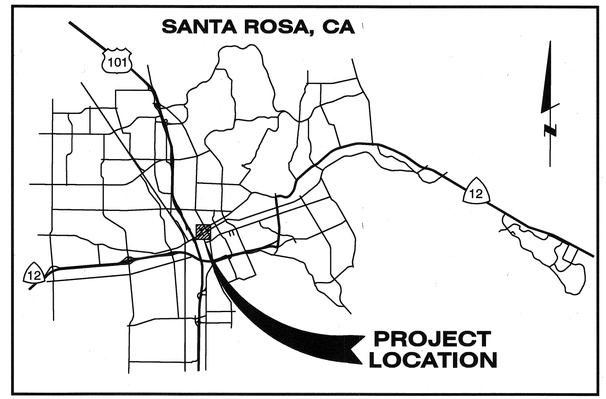
CONTRACT NO. C02408

## GENERAL NOTES

1. ALL WORKMANSHIP, MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CITY OF SANTA ROSA STANDARD PLANS, THE CONSTRUCTION SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, THE SPECIAL PROVISIONS FOR THIS PROJECT AND THE STATE STANDARD SPECIFICATIONS AND STANDARD PLANS. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING ALL STANDARDS PERTAINING TO THIS PROJECT.
2. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600 NO LESS THAN 2 WORKING DAYS PRIOR TO ANY EXCAVATION FOR MARK OUTS OF EXISTING UNDERGROUND FACILITIES IN ACCORDANCE WITH SECTION 5-1.36E OF THE SPECIAL PROVISIONS.
3. THE LOCATIONS OF UNDERGROUND UTILITIES AND OTHER OBSTACLES SHOWN ON THE PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL POTHOLE AND DETERMINE THE EXACT LOCATION OF ALL POTENTIAL CONFLICTS IN ACCORDANCE WITH U.S.A. LAWS AND THESE SPECIAL PROVISIONS AND THE STANDARD SPECIFICATIONS. IF ANY UNMARKED UTILITIES ARE ENCOUNTERED, OR IF UNABLE TO LOCATE A MARKED UTILITY AFTER POT HOLING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF THAT UTILITY AND THE ENGINEER.
4. ALL SEWER MANHOLES, MAINLINE CLEANOUTS AND WATER VALVES THAT ARE ON ACTIVE SYSTEMS SHALL BE ACCESSIBLE TO CITY PERSONNEL AT ALL TIMES AND SHALL BE BROUGHT TO GRADE WITHIN 48 HOURS OF PAVING.
5. THE CONTRACTOR SHALL PROTECT AND PRESERVE CITY MONUMENTS. THE CONTRACTOR SHALL COORDINATE WITH THE CITY ENGINEER 10 WORKING DAYS IN ADVANCE FOR REFERENCING OF EXISTING MONUMENTS TO BE DISTURBED. THE CONTRACTOR SHALL RECONSTRUCT DISTURBED MONUMENTS IN ACCORDANCE WITH CITY STANDARD 280.
6. OVERHEAD UTILITY SERVICE DROPS ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL INVESTIGATE THE SITE AND BE AWARE OF LIMITED CLEARANCES UNDER OVERHEAD UTILITY LINES AND LOW HANGING TREE BRANCHES. THE CONTRACTOR'S TRUCKS AND EXCAVATION EQUIPMENT SHALL BE SIZED SO THAT OVERHEAD WIRES AND TREE BRANCHES ARE NOT DAMAGED.
7. ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF AS GENERATED AND AT NO TIME SHALL THE CONTRACTOR PLACE EXCAVATED MATERIAL AT THE WORK SITE.
8. THE CONTRACTOR SHALL ONLY REMOVE EXISTING TREES OR SHRUBS AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
9. FOR CLARITY OF EXISTING SUBSURFACE CONDITIONS, NOT ALL CROSSWALKS, STOP BARS, OR EXISTING PAVEMENT MARKINGS ARE SHOWN ON THE PLANS. TRAFFIC STRIPES, RAISED PAVEMENT MARKERS AND PAVEMENT MARKINGS DAMAGED DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED PER CITY OF SANTA ROSA TRAFFIC STANDARDS PART III, TRAFFIC MARKINGS. PATCHING OF DAMAGED MARKINGS WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE ENGINEER. ALL DAMAGED RAISED PAVEMENT (NON-REFLECTIVE) MARKERS MUST BE CERAMIC.

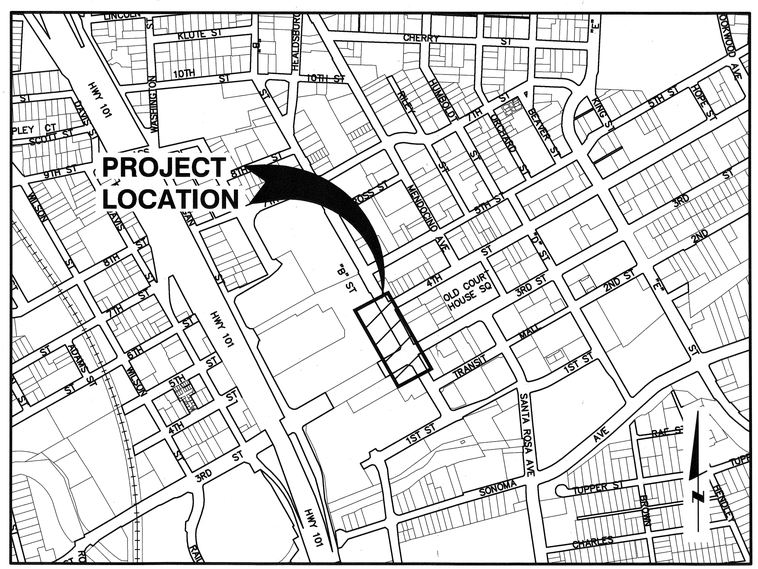
### RECORD PLAN DATA

| | |
|---|---|
| PROJECT START: | WATER SERVICE TYPE: |
| PROJECT END: | MANUFACTURER: |
| GEN. CONTRACTOR: | FIRE HYDRANT TYPE: |
| SUPERINTENDENT: | MANUFACTURER: |
| UNDERGROUND CONTRACTOR: | INSPECTOR: |
| FOREMAN: | CONSTRUCTION MANAGER: |
| SEWER PIPE TYPE: | RECORD PLANS BY: |
| MANUFACTURER: | ADDITIONAL INFO: |
| SEWER FITTINGS MANUFACTURER: | |
| M.H. MANUFACTURER: | |
| WATER PIPE TYPE: | |
| MANUFACTURER: | |
| WATER VALVE MANUFACTURER: | |
| WATER FITTINGS MANUFACTURER: | |




VICINITY MAP

NOT TO SCALE




LOCATION MAP

NOT TO SCALE

## INDEX OF SHEETS


| SHEET NO | DESCRIPTION |
|---|---|
| 1 | COVER |
| 2 | ABBREVIATIONS, LEGEND, SHEET LAYOUT & SURVEY CONTROL |
| 3 | DEMOLITION PLAN |
| 4 | GRADING AND UTILITY PLAN |
| 5 | SIDEWALK & CURB RAMP GRADING & DETAILS |
| 6 | SIGNING & STRIPING PLAN |
| 7 | DETAILS |
| 8 | TRAFFIC SIGNAL MODIFICATION |
| 9 | TRAFFIC SIGNAL SCHEDULES |
| 10 | STREET LIGHTING MODIFICATION |
| 11 | SIDEWALK AND CURB RAMP ELECTRICAL DETAILS |


BEFORE EXCAVATING
CALL U.S.A.
UNDERGROUND SERVICE ALERT
800-642-2444
TWO WORKING DAYS BEFORE ALL
PLANNED WORK OPERATIONS

FINAL PAY ITEM(S)

Bid Item #9 - Roadway Excavation - 250CY


Brelje & Race
CONSULTING ENGINEERS
475 Aviation Blvd. • Suite 120 • Santa Rosa, CA 95403 • 707-576-1322
www.brce.com


REGISTERED PROFESSIONAL ENGINEER — SEAN JEANE — No. 52402 — Exp. 12-31-24 — CIVIL — STATE OF CALIFORNIA

| NO. | DATE | REVISION | BY | DEPT | SIGNATURE | DATE |
|---|---|---|---|---|---|---|
| | | | | Design/Const | | |
| | | | | Survey | | |
| | | | | TPW Field Svc's | | |
| | | | | Utilities Op's | | 10/8/24 |
| | | | | Traffic | | |
| | | | | Parks | | |
| | | | | Storm Water | | |

DATE: JULY 2024
CHK BY: MSJ
SCALE: AS SHOWN
DWN BY: PIT
APPROVED: *Director of Transportation and Public Works*
By _____ Date _____
Dan Hennessey

City of Santa Rosa

B STREET AND 3RD STREET RIGHT TURN POCKET IMPROVEMENTS

COVER

CONTRACT NO. C02408

SHEET 1 OF 11

FILE NO. 2023-0025

08-16-24 kiflizghi \4827\dwg\4827 03\4827.03 COVER-Turn Pocket.dwg TAB: 1 COVER

# ABBREVIATIONS

| | |
|---|---|
| AB | AGGREGATE BASE |
| ABAN | ABANDONED |
| ABS | ACRYLONITRILE–BUTADIENE–STYRENE |
| AC | ASPHALT CONCRETE |
| ACP | ASBESTOS CEMENT PIPE |
| AD | ALGEBRAIC DIFFERENCE |
| ADA | AMERICANS WITH DISABILITIES ACT |
| ADPT | ADAPTER |
| AGG | AGGREGATE |
| ALUM | ALUMINUM |
| ANG | ANGLE |
| AP | ANGLE POINT |
| APN | ASSESSORS PARCEL NUMBER |
| APPROX | APPROXIMATE |
| ARV | AIR RELEASE VALVE |
| AVE | AVENUE |
| AVG | AVERAGE |
| BC | BEGIN HORIZONTAL CURVE |
| BFP | BACKFLOW PREVENTER |
| BLDG | BUILDING |
| BLVD | BOULEVARD |
| BM | BENCHMARK |
| BO | BLOWOFF |
| BOC | BACK OF CURB |
| BV | BUTTERFLY VALVE |
| BVC | BEGIN VERTICAL CURVE |
| BSW | BACK OF SIDEWALK |
| BT | BOTTOM OF TAPER |
| B&R | BRELJE & RACE |
| C | CONDUIT |
| CAV | COMBINATION AIR AND VACUUM RELEASE VALVE |
| CB | CATCH BASIN |
| CBC | CALIFORNIA BUILDING CODE |
| CDF | CONTROLLED DENSITY FILL |
| CHK | CHECK |
| CIP | CAST IRON PIPE |
| CIPP | CAST–IN–PLACE PIPE |
| ℄ | CENTERLINE |
| CL | CENTERLINE |
| CL | CLASS |
| CLR | CLEAR |
| CMP | CORRUGATED METAL PIPE |
| CMPA | CORRUGATED METAL PIPE ARCH |
| CMU | CONCRETE MASONRY UNIT |
| CO | CLEANOUT |
| COAX | COAXIAL CABLE |
| CONC | CONCRETE |
| COND | CONDUIT |
| CONST | CONSTRUCTION |
| CONT | CONTINUOUS |
| COTG | CLEANOUT TO GRADE |
| CP | CONTROL POINT |
| CPLG | COUPLING |
| CR | CURB RETURN |
| CSP | CORRUGATED STEEL PIPE |
| CT | COURT |
| CTB | CEMENT TREATED BASE |
| CTR | CENTER |
| CY | CUBIC YARD |
| C/C | CENTER TO CENTER |
| C&G | CURB AND GUTTER |
| DBL | DOUBLE |
| DCDC | DOUBLE CHECK DETECTOR CHECK |
| DCV | DETECTOR CHECK VALVE |
| DDC | DOUBLE DETECTOR CHECK |
| DET | DETECTOR |
| DH | DETECTOR HANDHOLE |
| DI | DROP INLET |
| DIA | DIAMETER |
| DIP | DUCTILE IRON PIPE |
| DLC | DETECTOR LOOP CONDUIT |
| DR | DRIVE |
| DS | DOWNSPOUT |
| DS | DOWNSTREAM |
| DWG | DRAWING |
| DWR | DASHED WHITE PAVEMENT MARKER |
| DWY | DRIVEWAY |
| DY | DOUBLE YELLOW |
| DYR | DASHED YELLOW RAISED PAVEMENT MARKER |
| E | EAST |
| EA | EACH |
| EC | END HORIZONTAL CURVE |
| ECC | ECCENTRIC |
| EFFL | EFFLUENT (SEWER) |
| EG | EXISTING GROUND |
| EL | ELEVATION |
| ELEC | ELECTRICAL |
| ELL | ELBOW |
| EP | EDGE OF PAVEMENT |
| EQ | EQUAL |
| ESMT | EASEMENT |
| EVC | END VERTICAL CURVE |
| EW | EACH WAY |
| EX | EXISTING |
| F | FIRE |
| FA | FIRE ALARM |
| FC | FACE OF CURB |
| FCA | FLANGED COUPLING ADAPTER |
| FDC | FIRE DEPARTMENT CONNECTION |
| FES | FLARED END SECTION |
| FF | FINISHED FLOOR |
| FG | FINISHED GRADE |
| FH | FIRE HYDRANT |
| ℄ | FLOWLINE |
| FL | FLOWLINE |
| FLG | FLANGE |
| FLSO | FLOWLINE OF SIDE OPENING |
| FLEX | FLEXIBLE |
| FM | FORCE MAIN (PRESSURE) |
| FRP | FIBERGLASS REINFORCED PLASTIC |
| FT | FEET |
| FTG | FOOTING |
| GAL | GALLON |
| GALV | GALVANIZED |
| GB | GRADE BREAK |
| GPM | GALLONS PER MINUTE |
| GRD | GROUND |
| GSP | GALVANIZED STEEL PIPE |
| GV | GAS VALVE |
| GV | GATE VALVE |
| HB | HOSE BIBB |
| HB | HEADER BOARD |
| HDG | HOT DIPPED GALVANIZED |
| HDPE | HIGH DENSITY POLYETHYLENE |
| HORIZ | HORIZONTAL |
| HP | HIGH POINT |
| HPG | HIGH PRESSURE GAS |
| HPS | HIGH PRESSURE SODIUM |
| HT | HEIGHT |
| HWY | HIGHWAY |
| IC | INTERCONNECT |
| ICV | IRRIGATION CONTROL VALVE |
| ID | INSIDE DIAMETER |
| INV | INVERT |
| IP | IRON PIPE |
| IPS | IRON PIPE SIZE |
| IRR | IRRIGATION |
| ISA | INTERNATIONAL SYMBOL OF ACCESSIBILITY |
| JB | JUNCTION BOX |
| JP | JOINT POLE |
| JT | JOINT TRENCH |
| KV | KILOVOLT |
| L | ARC LENGTH |
| L | LENGTH |
| LAT | LATERAL |
| LF | LINEAL FEET |
| LG | LIP OF GARAGE |
| LG | LIP OF GUTTER |
| LL | LANE LINE |
| LMA | LUMINAIRE MAST ARM |
| LN | LANE |
| LP | LOW POINT |
| LT | LEFT |
| LUM | LUMINAIRE |
| MAX | MAXIMUM |
| MB | MAILBOX |
| MBGR | METAL BEAM GUARD RAIL |
| MFR | MANUFACTURE |
| MG | MILLION GALLONS |
| MH | MANHOLE |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| MJ | MECHANICAL JOINT |
| MON | MONUMENT |
| MSL | MEAN SEA LEVEL |
| N | NORTH |
| NG | NATURAL GROUND |
| NO. | NUMBER |
| NA | NOT APPLICABLE |
| NIC | NOT IN CONTRACT |
| NPT | NATIONAL PIPE THREAD |
| OC | ON CENTER |
| OD | OUTSIDE DIAMETER |
| OH | OVERHEAD |
| OZ | OUNCE |
| PA | PLANTER AREA |
| PB | PULL BOX |
| PC | POINT OF CURVATURE |
| PCC | POINT OF COMPOUND CURVATURE |
| PCC | PORTLAND CEMENT CONCRETE |
| PD | PLANTER DRAIN |
| PE | PLAIN END |
| PEC | PHOTOELECTRIC CELL |
| PED | PEDESTRIAN |
| PG | PAD GRADE |
| PI | POINT OF INTERSECTION |
| PIV | POST INDICATOR VALVE |
| P | PROPERTY LINE |
| PN | PAVING NOTCH |
| POC | POINT OF CONNECTION |
| POC | POINT ON CURVE |
| POCC | POINT OF COMPOUND CURVE |
| POVC | POINT ON VERTICAL CURVE |
| POS | PRIVATE OPEN SPACE |
| POT | POINT ON TANGENT |
| PP | POWER POLE |
| PRC | POINT OF REVERSE CURVATURE |
| PRV | PRESSURE REDUCING VALVE |
| PSD | PERFORATED SUBDRAIN |
| PSI | POUND PER SQUARE INCH |
| PSV | PRESSURE SUSTAINING VALVE |
| PT | POINT |
| PT | POINT OF TANGENCY |
| PUE | PUBLIC UTILITY EASEMENT |
| PVC | POLYVINYL CHLORIDE |
| PVI | POINT OF VERTICAL INTERSECTION |
| PVMT | PAVEMENT |
| PWE | PUBLIC WATER EASEMENT |
| R | RADIUS |
| RAW | RAW WATER |
| RC | RELATIVE COMPACTION |
| RCB | REINFORCED CONCRETE BOX |
| RCP | REINFORCED CONCRETE PIPE |
| RD | ROAD |
| RD | ROOF DRAIN |
| RED | REDUCER |
| REF | REFERENCE |
| ROW | RIGHT OF WAY |
| RPBP | REDUCED PRESSURE BACKFLOW PREVENTER |
| RPM | RAISED PAVEMENT MARKER |
| RSC | REMOTE SUPERVISORY CONTROL |
| RT | RIGHT |
| RT | RING TIGHT |
| RW | RECYCLED WATER |
| RWL | RAIN WATER LEADER |
| R/W | RIGHT OF WAY |
| S | SOUTH |
| S | SLOPE |
| S.A.D. | SEE ARCHITECTURAL DRAWINGS |
| SCADA | SUPERVISORY CONTROL AND DATA ACQUISITION |
| SCH | SCHEDULE |
| SD | STORM DRAIN |
| SDCB | STORM DRAIN CATCH BASIN |
| SDCO | STORM DRAIN CLEANOUT |
| SDDI | STORM DRAIN DROP INLET |
| SDE | STORM DRAIN EASEMENT |
| SDMH | STORM DRAIN MANHOLE |
| SE | SEWER EASEMENT |
| S.E.D. | SEE ELECTRICAL DRAWINGS |
| SF | SQUARE FEET |
| SG | SUBGRADE |
| SIG | SIGNAL |
| SL | STREET LIGHT |
| S.L.D. | SEE LANDSCAPE DRAWINGS |
| SOF | SLIP ON FLANGE |
| SO | SIDE OPENING (SD) |
| S.P.D. | SEE PLUMBING DRAWINGS |
| SPEC | SPECIFICATION |
| SQ | SQUARE |
| SS | STAINLESS STEEL |
| SS | SANITARY SEWER |
| SSCO | SANITARY SEWER CLEANOUT |
| S.S.D. | SEE STRUCTURAL DRAWINGS |
| SSMH | SANITARY SEWER MANHOLE |
| ST | STREET |
| STA | STATION |
| STD | STANDARD |
| STL | STEEL |
| SVC | SERVICE |
| SWE | SIDEWALK EASEMENT |
| SY | SQUARE YARDS |
| SW | SIDEWALK |
| SWL | SOLID WHITE LINE |
| T | TANGENT |
| TAN | TANGENT |
| TB | TOP OF BOX |
| TBM | TEMPORARY BENCHMARK |
| TC | TOP OF CONCRETE |
| TC | TOP OF CURB |
| TCE | TEMPORARY CONSTRUCTION EASEMENT |
| TD | TOP OF DIKE |
| TEL | TELEPHONE |
| TEMP | TEMPORARY |
| TF | TOP OF FOUNDATION |
| TG | TOP OF GRATE |
| THD | THREADED |
| TP | TOP OF PIPE |
| TS | TOP OF SLAB |
| TS | TRAFFIC SIGNAL |
| TT | TOP OF TAPER |
| TW | TOP OF WALL |
| TWLTL | TWO WAY LEFT TURN LANE |
| TYP | TYPICAL |
| UC | UTILITY CHASE |
| UFFG | UNDER FLOOR FINISHED GRADE |
| UG | UNDERGROUND |
| UNO | UNLESS NOTED OTHERWISE |
| V | VOLT |
| VC | VERTICAL CURVE |
| VCP | VITRIFIED CLAY PIPE |
| VERT | VERTICAL |
| VG | VALLEY GUTTER |
| VLT | VAULT |
| W | WEST |
| W | WATER |
| WBD | WALL BACK DRAIN |
| WM | WATER METER |
| WNF | WELD NECK FLANGE |
| WS | WATER SERVICE |
| WSS | WATER SAMPLING STATION |
| WT | WEIGHT |
| WTR | WATER |
| WV | WATER VALVE |
| WWF | WELDED WIRE FABRIC |
| YD | YARD |
| ° | DEGREES |
| ' | MINUTES |
| " | SECONDS |
| Δ | DELTA |
| & | AND |
| @ | AT |
| # | NUMBER |
| # | POUNDS |
| % | PERCENT |

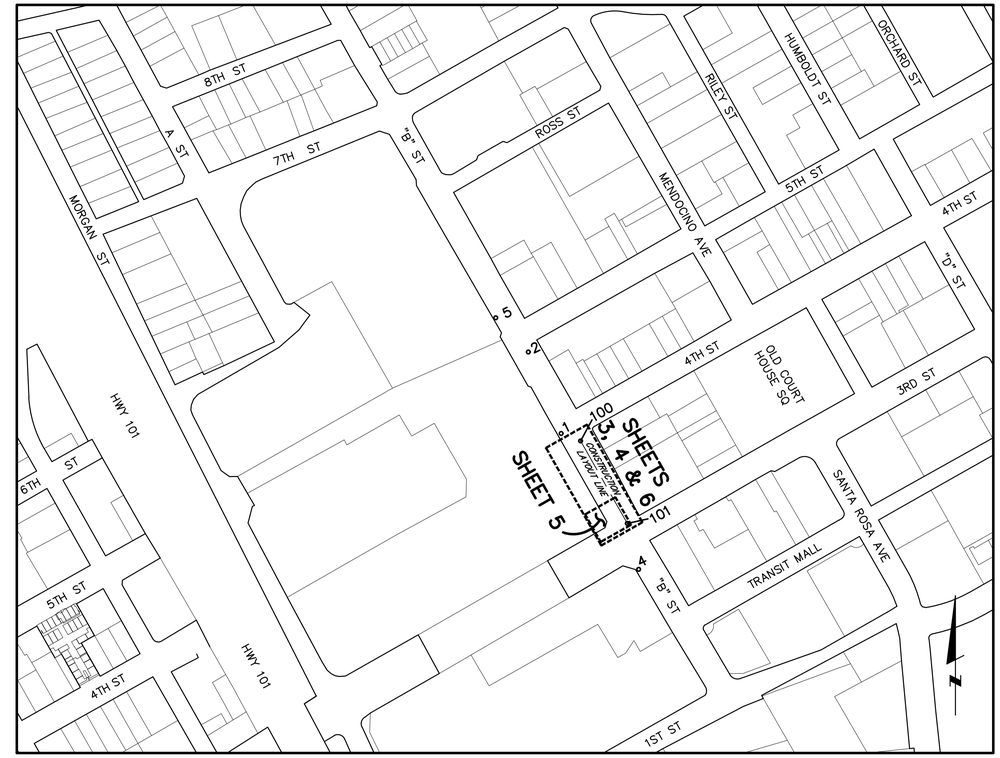
# LEGEND

## LINES

EXISTING BOUNDARY
EXISTING PARCEL
CENTER
EASEMENT

## UTILITY & TOPOGRAPHY

| | EXISTING | PROPOSED |
|---|---|---|
| DROP INLET | | DI |
| DROP INLET WITH SIDE OPENINGS | | DI |
| STORM DRAIN, MANHOLE & CATCH BASIN | 24"SD SDMH | 24"SD SDMH |
| SEWER MAIN, MANHOLE & CLEAN OUT | SS CO SSMH | STD 505 STD 500 CO SSMH |
| SEWER LATERAL & CLEANOUT | SS CO | STD 513 CO |
| IRRIGATION CONTROL VALVE BOX & SERVICE | IRR | IRR |
| FIRE HYDRANT & SERVICE ASSEMBLY | FH W W | STD 857 FH |
| WATER MAIN, GATE VALVE, CROSS & ELBOW | 4" W W W | STD 877 GV |
| WATER MAIN, PERMANENT BLOWOFF, TEE, GATE VALVE, CROSS & BEND | 4" W W W BO | BO STD 861 STD 877 GV |
| SINGLE WATER SERVICE (SEE PLANS FOR SIZE) | | STD 863 & 889 |
| DUAL WATER SERVICE (SEE PLANS FOR SIZE) | | STD 864 |
| TEMPORARY BLOWOFF, REDUCER & TIE–IN | 3" BO STD 859 W | 3" BO STD 859 W |
| END CAP OR PLUG | W | W |
| GAS MAIN, VALVE & SERVICE | G GV G G | G GV G G |
| ELECTRICAL MANHOLE | E | E |
| TELEPHONE MANHOLE | T | T |
| PACIFIC BELL TELEPHONE PULL BOX/VAULT | TEL | TEL |
| ELECTRICAL CONDUIT & BOX | E E | E E |
| STREET LIGHT CONDUIT & BOX | SL SL | SL SL |
| STREET LIGHT | | |
| TRAFFIC SIGNAL | | |
| TRAFFIC SIGNAL PULL BOX | TS | TS |
| JOINT POLE & GUY ANCHOR | | |
| OVERHEAD UTILITY | OH | OH |
| STREET ADDRESS | 500 "STREET NAME" | |
| STREET SIGN | | |
| FENCE | X X | X X |
| PARKING METER | P | P |
| SURVEY CONTROL POINT | △ | △ |
| SURVEY MONUMENT | ◉ | ◎ |
| AC DIKE | | |
| CURB & GUTTER | | |
| TREE PROTECTION | | TP |
| ABANDON EXISTING UTILITY | | /// |
| TREE TO BE SAVED/PROTECTED | | △ |
| TREE TO BE REMOVED | | ⊠ |




## SHEET LAYOUT AND SURVEY CONTROL DATA

NOT TO SCALE

### CONTROL POINT COORDINATE TABLE

| NO | NORTHING | EASTING | TYPE | ELEVATION |
|---|---|---|---|---|
| 1 | 1922743.548 | 6356661.832 | SET CUT X | 159.98 |
| 2 | 1922958.600 | 6356575.267 | SET PK NAIL | 159.44 |
| 4 | 1922384.933 | 6356866.403 | SET CUT X | 159.94 |
| 5 | 1923048.903 | 6356489.137 | SET CUT X | 158.64 |
| 100 | 1922723.757 | 6356713.207 | CONST LAYOUT LINE | 0.00 |
| 101 | 1922506.236 | 6356836.433 | CONST LAYOUT LINE | 0.00 |

## BENCHMARK

C–115 CITY OF SANTA ROSA VERTICAL CONTROL NETWORK BENCHMARK C–115, ELEVATION = 158.764 FEET (NGVD 29).

## BASIS OF BEARINGS

NORTH 29° 44' 38" WEST BETWEEN CITY OF SANTA ROSA HORIZONTAL CONTROL NETWORK COORDINATE MONUMENTS G–5 & G–6. NAD83 – ZONE 2 – EPOCH 2010.00

REGISTERED PROFESSIONAL ENGINEER M. SEAN JEANNE No. 52402 Exp. 12-31-24 CIVIL STATE OF CALIFORNIA
8/16/24

City of Santa Rosa

Brelje & Race
ESTABLISHED 1960
CIVIL ENGINEERS · PLANNERS · SURVEYORS · CONSULTING ENGINEERS
2300 Contra Costa Blvd., Suite 250, Pleasant Hill, CA 94523-3967 (925) 827-3100

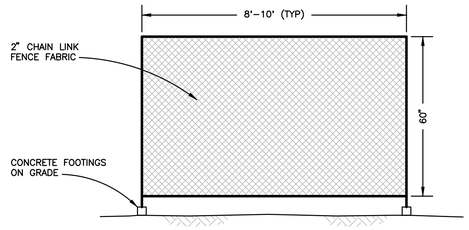
| NO. | DATE | REVISION | BY |
|---|---|---|---|
| | | | |

DATE: JULY 2024
CHK BY: JST
SCALE: AS SHOWN
DWN BY: PIT

City of Santa Rosa
B STREET AND 3RD STREET RIGHT TURN POCKET IMPROVEMENTS
ABBREVIATIONS, LEGEND, SHEET LAYOUT & SURVEY CONTROL

CONTRACT NO. C02408
SHEET 2 OF 11
FILE NO. 2023–0025

08–16–24 thompson \4827\dwg\4827 03\4827.03 COVER–Turn Pocket.dwg TAB: 2 ABBREVIATIONS LEGEND SHEET LAYOUT & SURVEY CONTROL




NOTE

INSTALL PORTABLE CHAIN LINK FENCE PANELS AS TEMPORARY TREE PROTECTION FENCING AT LOCATIONS SHOWN ON PLANS.

## TEMPORARY TREE PROTECTION FENCE

NOT TO SCALE

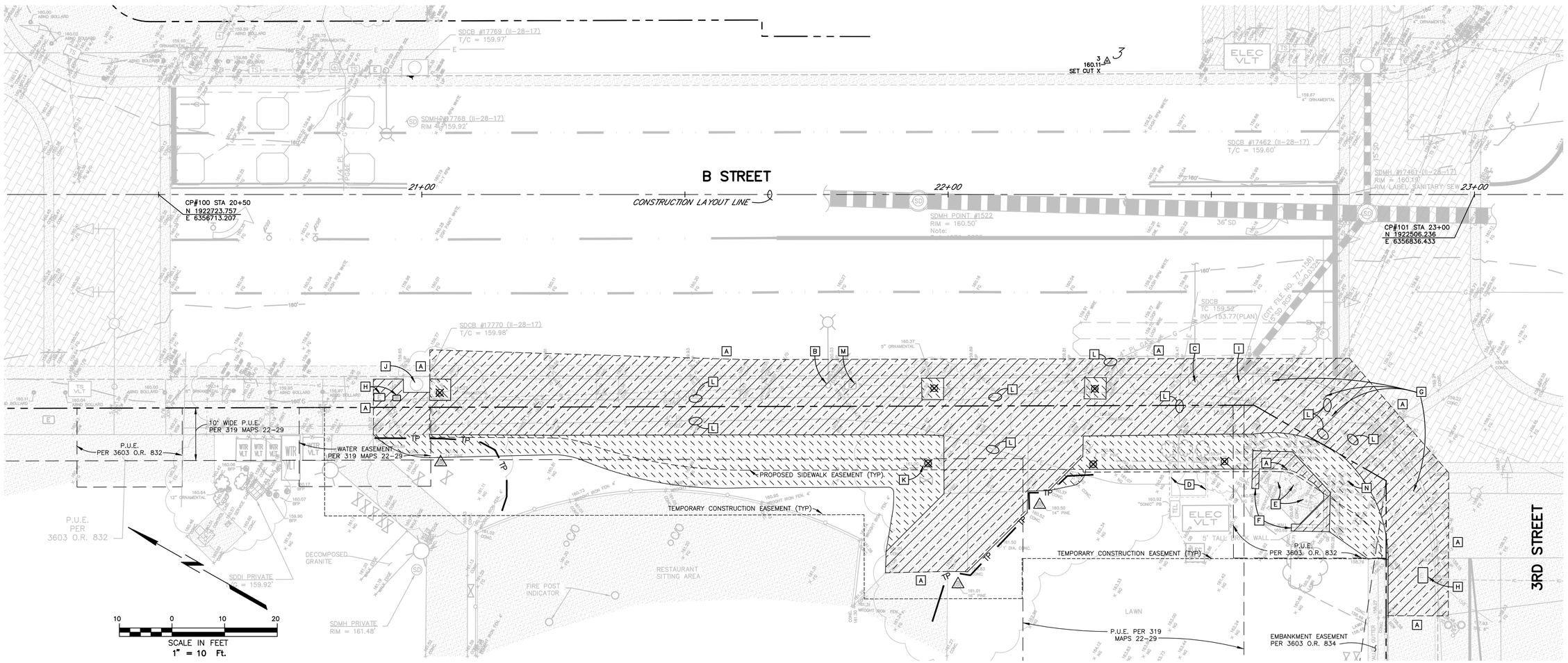
## LEGEND

- REMOVE ALL EXISTING SURFACE IMPROVEMENTS, INCLUDING, BUT NOT LIMITED TO, ASPHALT AND CONCRETE, CURBS, BASE MATERIAL, HEADERBOARD, RAMPS, WALLS, ETC WITHIN THE LIMITS OF THE HATCHING IDENTIFIED HEREON AND PROPERLY DISPOSE OF OFFSITE, UNLESS OTHERWISE NOTED.
- REMOVE ALL VEGETATION, INCLUDING, BUT NOT LIMITED TO GRASS, PLANTS, SHRUBS, ETC, WITHIN THE LIMITS OF THE HATCHING IDENTIFIED HEREON AND PROPERLY DISPOSE OF OFFSITE, UNLESS OTHERWISE NOTED.
- TREE TO BE REMOVED AND STUMPS GROUND 3' BELOW GRADE PER PROJECT SPECIFICATIONS SEC 16-1.04.
- TREE TO BE SAVED.
- TP — INSTALL TREE PROTECTION FENCING PER DETAIL THIS SHEET.

## DEMOLITION NOTES

(ONLY NOTES RELEVANT TO THIS SHEET ARE SHOWN)

- A SAWCUT EXISTING IMPROVEMENTS.
- B EXISTING STREET LIGHT TO BE REPLACED, CONTRACTOR TO REMOVE AND PROPERLY DISPOSE OF OFF-SITE. SEE SHEET 4 FOR LOCATION ON NEW LIGHT.
- C EXISTING FIRE HYDRANT AND HYDRANT BURY TO BE REPLACED BEHIND NEW CURB PER CITY STANDARDS, SEE SHEET 4.
- D EXISTING ELECTRICAL VAULT TO REMAIN, PROTECT IN PLACE.
- E EXISTING CONCRETE PAD AND TRAFFIC CONTROLLERS TO REMAIN, PROTECT IN PLACE, (SEE TRAFFIC SIGNAL PLANS FOR MORE INFORMATION).
- F REMOVE ENTIRE LIMITS OF EXISTING BRICK WALL AND FOUNDATION.
- G SEE TRAFFIC SIGNAL PLANS FOR DEMOLITION SEQUENCE FOR EXISTING TRAFFIC SIGNAL POLES, PULL BOXES AND CONDUITS. PROPERLY DISPOSE OF OFFSITE.
- H EXISTING UTILITY BOX TO REMAIN, PROTECT IN PLACE.
- I REMOVE EXISTING STORM DRAIN CATCH BASIN AND PROPERLY DISPOSE OF OFFSITE.
- J EXISTING STORM DRAIN CATCH BASIN TO REMAIN, PROTECT IN PLACE.
- K REMOVE ELECTRICAL PLUG OUTLET AT BASE OF TREE. COORDINATE SHUT OFF OF ELECTRICAL CIRCUIT AND TERMINATION OF LINE WITH SIMON MALL STAFF.
- L POTHOLE EXISTING UTILITY LINES PRIOR TO CONSTRUCTION. SEE NOTES ON SHEETS 4 AND 5 FOR MORE INFORMATION.
- M EXISTING STREET LIGHT PULL BOX TO BE REMOVED. SEE TRAFFIC SIGNAL PLANS FOR NEW BOX LOCATION.
- N EXISTING SPLICE BOX TO BE REMOVED. SEE SHEETS 5 AND 11.

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SCALE: AS SHOWN
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City of Santa Rosa

**B STREET AND 3RD STREET RIGHT TURN POCKET IMPROVEMENTS**

**DEMOLITION PLAN**

CONTRACT NO. C02408

SHEET 3 OF 11

FILE NO. 2023-0025

08-16-24 thompson \4827\dwg\4827 03\4827.03 DEMO-Turn Pocket.dwg TAB: 3 DEMO

## NOTES

1. ALL EARTHWORK AND DEMO QUANTITIES ARE ESTIMATES. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES FOR THEIR BID.
2. EARTHWORK QUANTITIES INCLUDE ALL SOIL AND EXISTING BASE ROCK TO BE REMOVED WITHIN THE LIMITS OF GRADING. ALL EXCESS SOIL AND EXISTING BASE ROCK SHALL BE OFF-HAULED TO A CLASS 2 SOIL DISPOSAL SITE PER SECTION 14-11 OF THE PROJECT SPECIFICATIONS.
3. ALL CONCRETE AND ASPHALT DEBRIS SHALL BE RECYCLED PER SECTION 14.10.01-14.10.03 OF THE PROJECT SPECIFICATIONS.

## EARTHWORK – ESTIMATED QUANTITIES

| | |
|---|---|
| SOIL AND CLASS 2 AB OFFHAUL | 200 CY |

## DEMOLITION – ESTIMATED QUANTITIES

| | |
|---|---|
| AC PAVEMENT AND BRICK PAVERS | 341 SF |
| EX CURB AND GUTTER | 223 LF |
| EX SIDEWALK (CITY) | 2,326 SF |
| EX SIDEWALK (OTHER) | 542 SF |
| EX CONTROLER SLAB AND WALL | 73 SF |

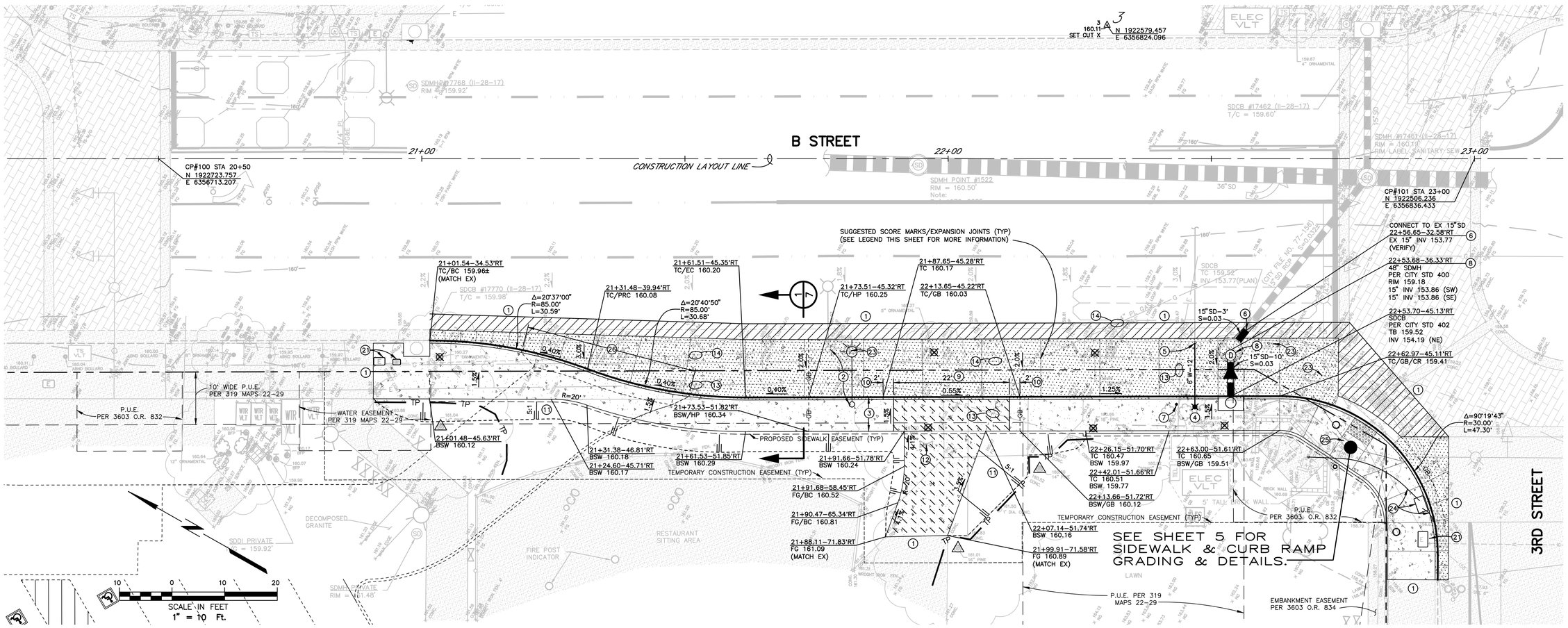
## GRADING AND UTILITY NOTES

(ONLY NOTES RELEVANT TO THIS SHEET ARE SHOWN)

1. SAWCUT AND MATCH EXISTING.
2. INSTALL NEW STREET LIGHT PER CITY STANDARDS. SEE STREET LIGHT MODIFICATION PLAN (SHEET 10) FOR MORE DETAILS.
3. 6.0' WIDE SIDEWALK MEASURED FROM BACK OF CURB, PER CITY STANDARD 230G.
4. INSTALL NEW FIRE HYDRANT, PER CITY STANDARD 857.
5. CONNECT TO EXISTING 6" WATER LINE USING APPROPRIATE FITTINGS FOR PIPE MATERIALS. ALL JOINTS UP TO HYDRANT TO BE RESTRAINED.
6. CONNECT TO EXISTING 15" STORM DRAIN LINE PER CONCRETE COLLAR DETAIL, SHEET 7.
7. INSTALL BOLLARD PER DETAIL SHEET 7, 3' CLEAR FROM FIRE HYDRANT.
8. LOCATION OF MANHOLE FRAME AND COVER SHALL BE OFFSET BY ROTATING THE ECCENTRIC CONE (PER CITY STD 400) POSITIONED PER PLAN TO ALLOW 2' OF MONOLITHIC CONCRETE BETWEEN MANHOLE FRAME AND THE EDGE OF THE CONCRETE SLAB.
9. CONSTRUCT MOUNTABLE CURB PER DETAIL SHEET 7.
10. 2 FOOT CURB TRANSITION FROM MOUNTABLE TO STANDARD CURB, PER DETAIL SHEET 7.
11. 5 TO 1 (MIN) SLOPE PER CITY STD 233.
12. REPLACE EXISTING IRRIGATION VALVE BOX WITH A TRAFFIC RATED BOX TO GRADE OR RELOCATE IRRIGATION VALVE AND BOX OUTSIDE OF NEW ACCESS DRIVE TO GRADE.
13. POTHOLE EXISTING DRY UTILITY LINE(S) PRIOR TO THE START OF CONSTRUCTION AND REPORT RESULTS OF POTHOLE DATA (VERTICAL AND HORIZONTAL LOCATIONS) TO ENGINEER.
14. POTHOLE EXISTING GAS LINE PRIOR TO THE START OF CONSTRUCTION AND REPORT RESULTS OF POTHOLE DATA (VERTICAL AND HORIZONTAL LOCATIONS) TO ENGINEER.
21. EXISTING UTILITY BOX TO REMAIN, PROTECT IN PLACE, ADJUST TO NEW FINISHED GRADE.
23. EXISTING STREET LIGHT AND TRAFFIC SIGNAL PULL BOXS TO BE REMOVED. SEE TRAFFIC SIGNAL PLANS FOR NEW BOX LOCATIONS.
24. PRIOR TO CONSTRUCTION OF THE CURB RAMP, THE CONTRACTOR SHALL REROUTE THE EXISTING CONDUIT RUN LEADING FROM THE PUMP STATION LOCATED IN THE UNDERPASS TO THE PUMP CONTROLLER CABINET. SEE SHEET 11 FOR DETAILS.
25. EXISTING PUMP CONTROL PULL BOXES TO BE REMOVED. SEE SHEET 11 FOR DETAILS.
26. FUTURE CURB CUT PER SIMON SANTA ROSA PLAZA IMPROVEMENT PLANS. CONTRACTOR SHALL COORDINATE THIS WORK WITH THE SIMON PLAZA CONTRACTOR. THE CITY MAY ASK FOR THE CURB TO BE BLOCKED OUT FOR THE LIMITS OF THE DRIVEWAY CUT.

## LEGEND

- LIMITS OF AC CONFORM 0.67' AC SURFACE OVER 1.26' CLASS 2 AB. (TI = 10.1)
- LIMITS OF P.C.C. PAVEMENT SECTION, PER CITY STANDARD 222 AND TYPICAL SECTION 1 (SEE SHEET 7). SCORE MARKS AND EXPANSION JOINTS SHALL APPROXIMATE SQUARE SHAPES WITH THE LONG SIDE OF THE SQUARE NO MORE THAN 1.25 TYPICAL (1.5 MAX) TIMES THE LENGTH OF THE SHORT SIDE. APPROXIMATE SUGGESTED SCORE MARKS ARE SHOWN ON THE PLAN. EXPANSION JOINTS SHALL BE AT 60' MAXIMUM SPACING.
- LIMITS OF CONTIGUOUS SIDEWALK SECTION, PER CITY STANDARD 230G.
- LIMITS OF THICKENED VEHICULAR SIDEWALK SECTION FOR VEHICULAR ACCESS (6" CLASS A PCC OVER 4" CLASS 2 AB).




ALL EXISTING SOILS ON THIS PROJECT SHALL BE CONSIDERED CONTAMINATED. REFER TO SPECIFICATIONS SECTION 14 FOR DETAILS.

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City of Santa Rosa

B STREET AND 3RD STREET RIGHT TURN POCKET IMPROVEMENTS

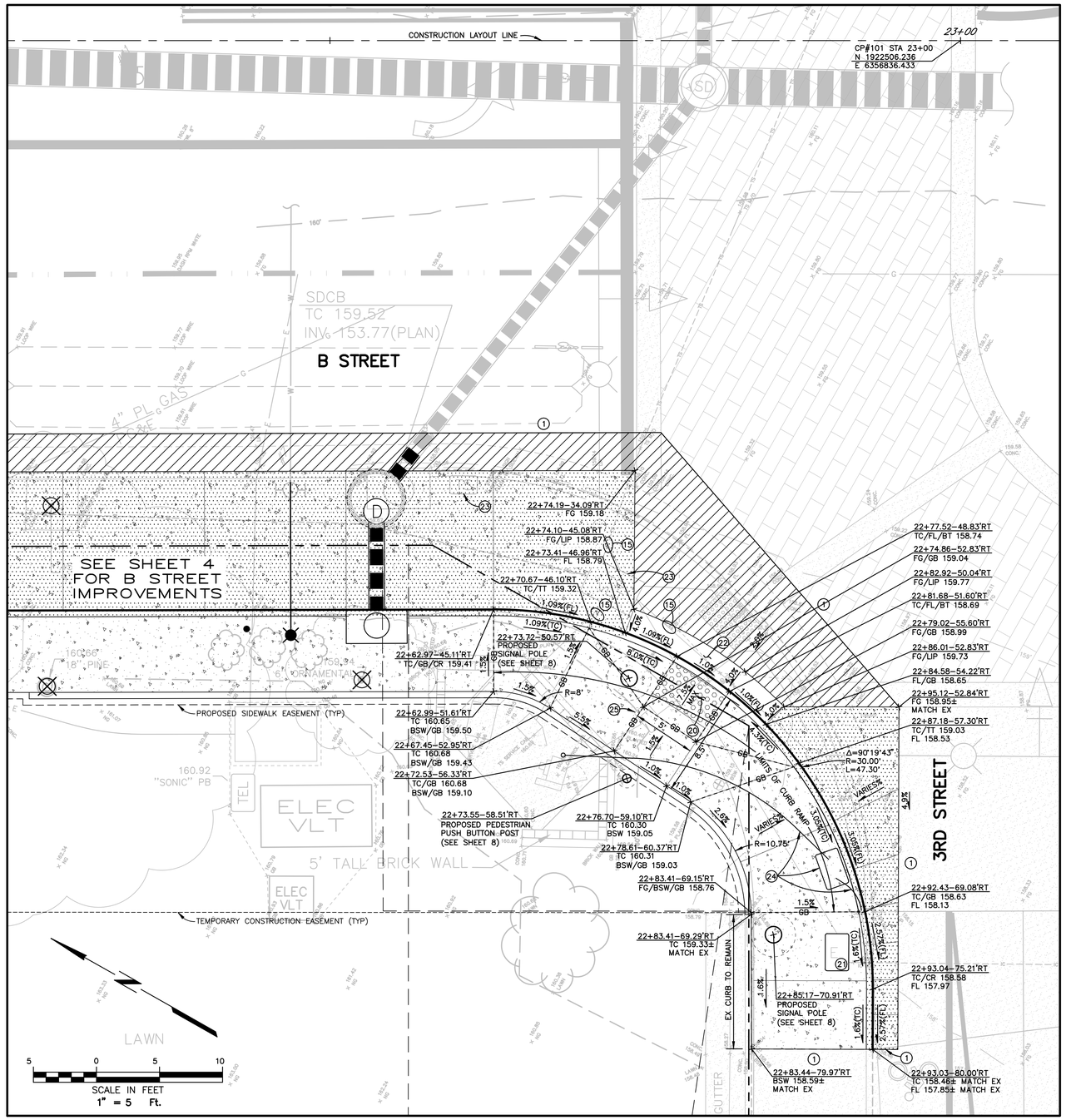
GRADING AND UTILITY PLAN

CONTRACT NO. C02408

SHEET 4 OF 11

FILE NO. 2023-0025

08-16-24 thompson \4827\dwg\4827 03\4827.03 PLAN-Turn Pocket.dwg TAB: 4 GRAD UTIL




## CURB RAMPS WEST SIDE (B STREET/3 RD STREET)

## GRADING NOTES

**(ONLY NOTES RELEVANT TO THIS SHEET ARE SHOWN)**

1. SAWCUT AND MATCH EXISTING.
15. POTHOLE EXISTING TRAFFIC SIGNAL CONDUITS ENOUGH TO ASSURE AVOIDING DISRUPTION OF TRAFFIC SIGNAL OPERATION DURING CONSTRUCTION AND TO ALLOW FOR REROUTING OF LINES PER TRAFFIC SIGNAL PLANS.
20. 3' X 5' DETECTABLE WARNING SURFACE PER DETAIL SHEET 7.
21. EXISTING UTILITY BOX TO REMAIN, PROTECT IN PLACE, ADJUST TO NEW FINISHED GRADE.
22. CURB AND GUTTER PER CITY STANDARD 241 WITH VARIED HEIGHT AND GUTTER CROSS SLOPE PER THIS PLAN.
23. EXISTING STREET LIGHT AND TRAFFIC SIGNAL PULL BOXS TO BE REMOVED. SEE TRAFFIC SIGNAL PLANS FOR NEW BOX LOCATIONS.
24. PRIOR TO CONSTRUCTION OF THE CURB RAMP, THE CONTRACTOR SHALL REROUTE THE EXISTING CONDUIT RUN LEADING FROM THE PUMP STATION LOCATED IN THE UNDERPASS TO THE PUMP CONTROLLER CABINET. SEE SHEET 11 FOR DETAILS.
25. EXISTING PUMP CONTROL PULL BOXES TO BE REMOVED. SEE SHEET 11 FOR DETAILS.

## LEGEND

- LIMITS OF AC CONFORM 0.67' AC SURFACE OVER 1.26' CLASS 2 AB. (TI = 10.1)
- LIMITS OF P.C.C. PAVEMENT SECTION, PER CITY STANDARD 222, AND TYPICAL SECTION 1 (SEE SHEET 7). SCORE MARKS AND EXPANSION JOINTS SHALL APPROXIMATE SQUARE SHAPES WITH THE LONG SIDE OF THE SQUARE NO MORE THAN 1.25 TYPICAL (1.5 MAX) TIMES THE LENGTH OF THE SHORT SIDE. APPROXIMATE SUGGESTED SCORE MARKS ARE SHOWN ON THE PLAN. EXPANSION JOINTS SHALL BE AT 60' MAXIMUM SPACING.
- LIMITS OF CONTIGUOUS SIDEWALK SECTION, PER CITY STANDARD 230G.

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City of Santa Rosa

**B STREET AND 3RD STREET RIGHT TURN POCKET IMPROVEMENTS**

**SIDEWALK & CURB RAMP GRADING & DETAILS**

CONTRACT NO.
C02408

SHEET 5 OF 11

FILE NO. 2023–0025

08-16-24 thompson \4827\dwg\4827 03\4827.03 DETAIL-Curb Ramp-Turn Pocket.dwg TAB: 5 RAMP DETAILS

## SHEET NOTES

**(ONLY NOTES RELEVANT TO THIS SHEET ARE SHOWN)**

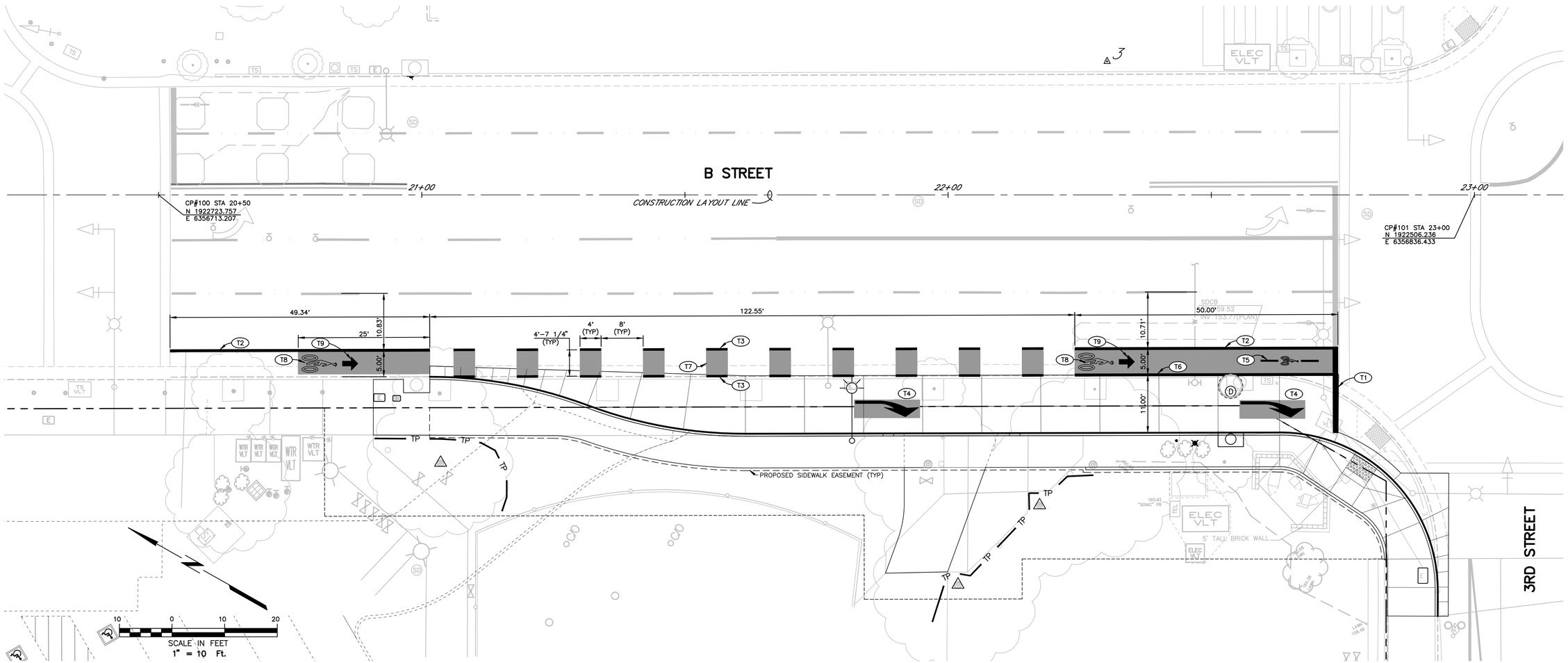
- (T1) INSTALL 12" WHITE METHYL METHACRYLANE CROSSWALK/LIMIT LINE PER CALTRANS STD PLAN A24F.
- (T2) INSTALL 6" WHITE BIKE LANE PER CALTRANS STD PLAN A20D, DETAIL 39.
- (T3) INSTALL 6" WHITE BIKE LANE INTERSECTION LINE PER CALTRANS STD PLAN A20D, DETAIL 39A.
- (T4) INSTALL TYPE IV (R) ARROW PER CALTRANS A24A, WITH CONTRAST BLACK BENEATH THE ARROW AND A MINIMUM OF 2" BEYOND ARROW.
- (T5) INSTALL METHYL METHACRYLANE BIKE DETECTOR SYMBOL PER CALTRANS STD PLAN A24C.
- (T6) INSTALL 8" WHITE CHANNELIZING LINE PER CALTRANS STD PLAN A20D, DETAIL 38A.
- (T7) AREA BETWEEN STRIPES SHALL BE GREEN METHYL METHACRYLANE BIKE LANE MARKINGS (TYPICAL).
- (T8) INSTALL METHYL METHACRYLANE BIKE LANE SYMBOL PER CALTRANS STD PLAN A24C.
- (T9) INSTALL METHYL METHACRYLANE BIKE LANE ARROW PER CALTRANS STD PLAN A24A.

## NOTES

1. ALL STRIPING, PAVEMENT MARKINGS, AND RAISED MARKERS SHALL CONFORM TO THE LATEST EDITION OF THE CALTRANS STANDARD PLANS AND THE CALIFORNIA MUTCD, UNLESS OTHERWISE NOTED.
2. ALL PAVEMENT STRIPING AND MARKINGS SHALL BE METHYL METHACRYLANE PER MUTCD AND CALTRANS STANDARD SUPPLEMENTAL SPECIFICATIONS, UNLESS OTHERWISE NOTED.
3. PROPOSED STRIPING TO MATCH EXISTING IN SIZE, LENGTH, AND COLOR.

## LEGEND

- BICYCLE LOOP DETECTOR SYMBOL DETAIL PER CALTRANS STD PLAN A24C
- BIKE LANE SYMBOL PER CALTRANS STD PLAN A24C

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City of Santa Rosa

**B STREET AND 3RD STREET RIGHT TURN POCKET IMPROVEMENTS**

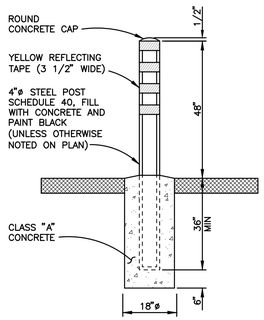
**SIGNING & STRIPING PLAN**

CONTRACT NO. C02408

SHEET 6 OF 11

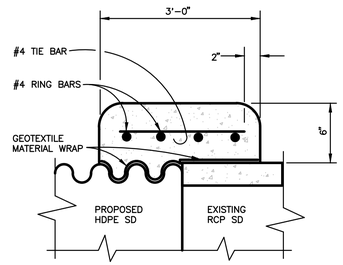
FILE NO. 2023-0025

08-16-24 thompson \4827\dwg\4827 03\4827.03 SIGN-STRIPE-Turn Pocket.dwg TAB: 6 SIGNING & STRIPING PLAN



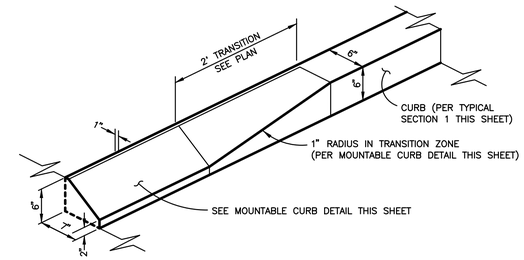

## FIXED BOLLARD

NOT TO SCALE



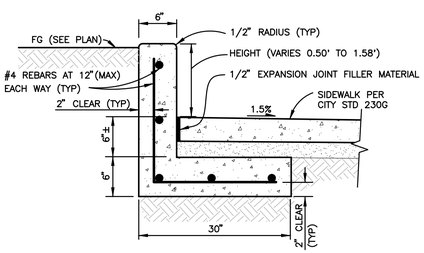

## CONCRETE COLLAR

NOT TO SCALE



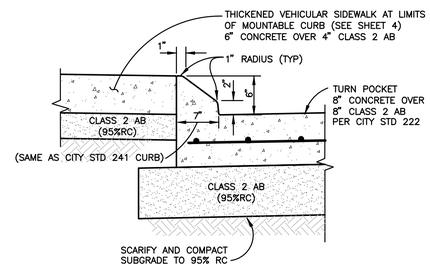

## CURB TRANSITION

NOT TO SCALE



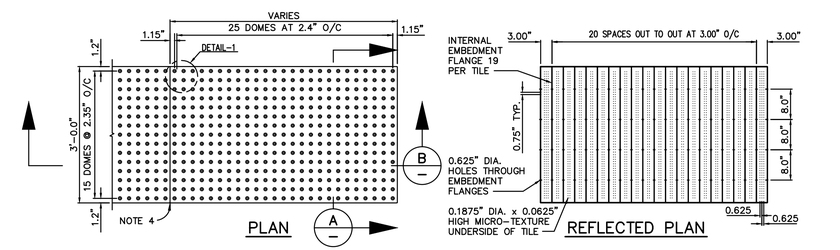

## RETAINING CURB

NOT TO SCALE



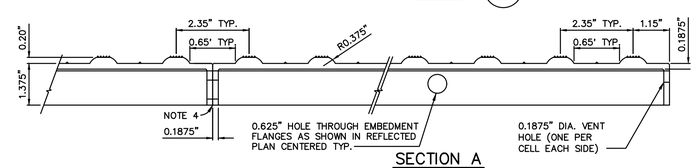

## MOUNTABLE CURB

NOT TO SCALE

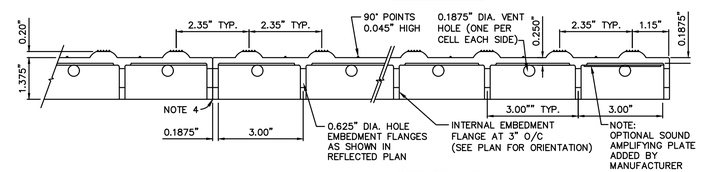



PLAN

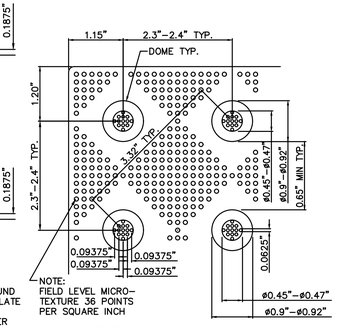
REFLECTED PLAN




SECTION A




SECTION B



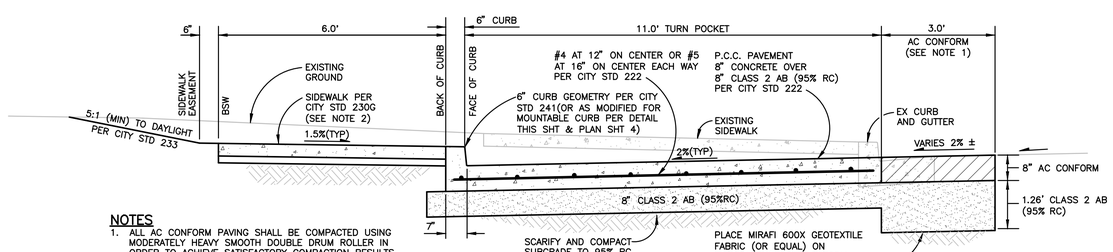

DETAIL-1

### NOTES

1. DETAIL FOR 36"x60" SHOWN. DETAIL FOR OTHER SIZE TILES SIMILAR.
2. TILE COLOR TO BE YELLOW.
3. TILES TO BE PLACED FULL WIDTH OF RAMP, EXCLUDING FLARES, AND A MINIMUM LENGTH OF 3FT IN THE DIRECTION OF TRAVEL.
4. WHEN PLACING SEPARATE TILES TOGETHER, ADJACENT TILES SHALL MAINTAIN TRUNCATED DOMES CENTER-TO-CENTER AND BASE-TO-BASE SPACING BETWEEN THE SQUARE GRIDS, AS WELL AS LINEAL ALIGNMENT.

## EMBEDDED DETECTABLE WARNING SURFACE

NOT TO SCALE




### NOTES

1. ALL AC CONFORM PAVING SHALL BE COMPACTED USING MODERATELY HEAVY SMOOTH DOUBLE DRUM ROLLER IN ORDER TO ACHIEVE SATISFACTORY COMPACTION RESULTS. SUCH AS DYNAPAC DTR 75 OR WACKER NEUSON RD7A (MIN 24" NOMINAL WIDTH AND MIN 1500 LB MASS).
2. SEE SHEET 4 FOR LIMITS OF THICKENED VEHICULAR SIDEWALK.

## TYPICAL SECTION

NOT TO SCALE

1/4

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City of Santa Rosa

B STREET AND 3RD STREET RIGHT TURN POCKET IMPROVEMENTS

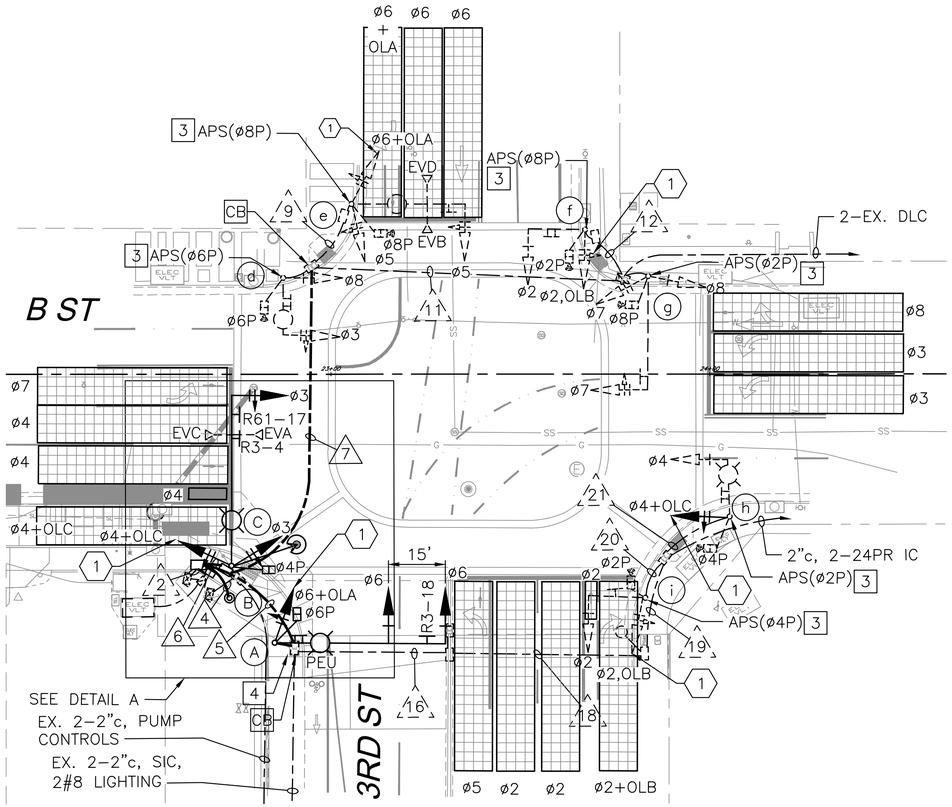
DETAILS

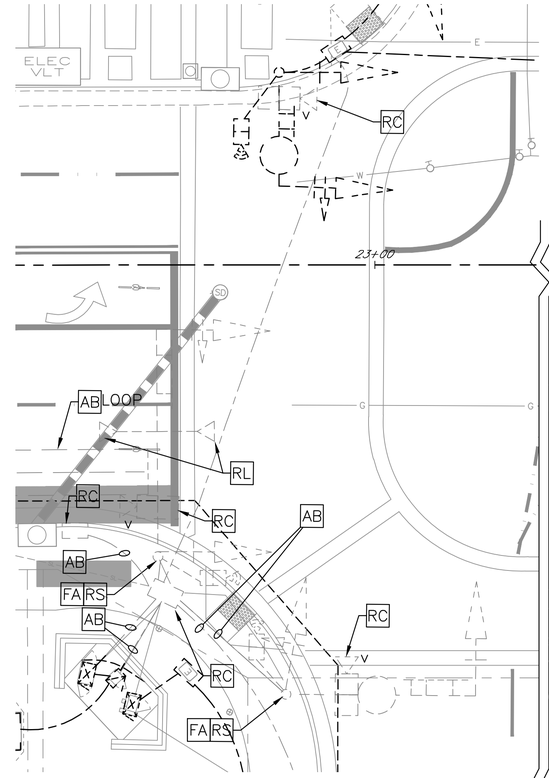
CONTRACT NO.
C02408

SHEET 7 OF 11

FILE NO. 2023-0025

08-16-24 thompson \4827\dwg\4827 03\4827.03 DETAILS-Turn Pocket.dwg TAB: 7 DETAILS



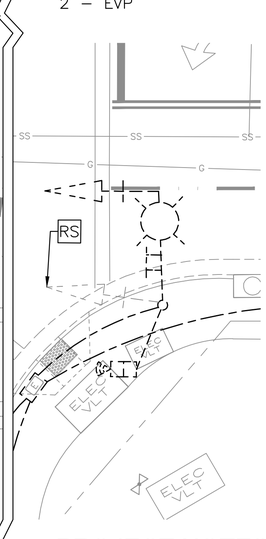



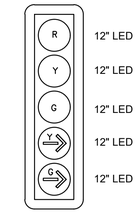

## REMOVAL PLAN

1"=10'

REMOVAL LIST:
2 – MAST ARM POLE
5 – VEHICLE HEAD
2 – PEDESTRIAN HEAD
8 – PEDESTRIAN PUSH BUTTON
1 – LUMINAIRE
1 – STREET NAME SIGN
3 – SIGN
2 – PULL BOXES
3– VIDS CAMERA

RELOCATION LIST:
2 – EVP




## SIGNAL DETAIL

1

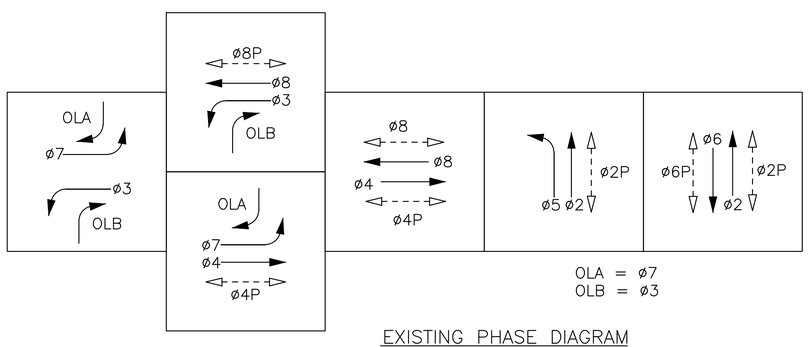
| POLE LOCATIONS | | |
|---|---|---|
| POLE | STATION | OFFSET |
| A | 22+85.17 | 70.91 RT |
| B | 22+73.55 | 58.51 RT |
| C | 22+73.72 | 50.58 RT |

## LEGEND (THIS SHEET ONLY)

AB – ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS
APS – ACCESSIBLE PEDESTRIAN SIGNALS
BC – INSTALL PULL BOX IN EXISTING CONDUIT RUN
CB – INSTALL CONDUIT INTO EXISTING PULL BOX
DLC – DETECTOR LEAD IN CABLE
FA – FOUNDATION TO BE ABANDONED
PEU – PHOTOELECTRIC UNIT
RC – EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME PROPERTY OF THE CONTRACTOR
RL – RELOCATE EQUIPMENT
RS – REMOVE AND SALVAGE EQUIPMENT

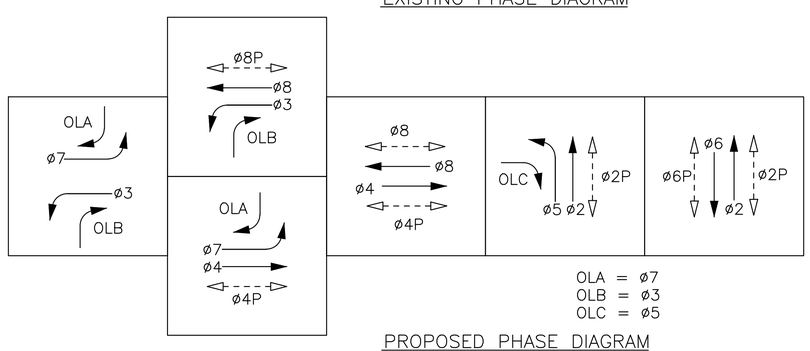
## PROJECT NOTES (THIS SHEET ONLY)

1. DISCONNECT AND PULL EX SIC FROM CABINET AND COIL INTO EX PULL BOX. INSTALL NEW CONDUIT AND RECONNECT TO EXISTING TERMINAL BLOCK IN THE CABINET.
2. FURNISH AND INSTALL APS CONTROLLER UNIT INSIDE EXISTING TRAFFIC CONTROLLER CABINET.
3. RS EXISTING PBA AND REPLACE WITH APS PBA.
4. REMOVE EXISTING SIC BETWEEN CONTROLLER AND POLE A AND REPULL INTO NEW CONDUITS (SEE CONDUCTOR SCHEDULE) AND RECONNECT IN CONTROLLER CABINET.
5. EXISTING PUMP CONTROL PANEL & METER.
6. SEE SHEET 5



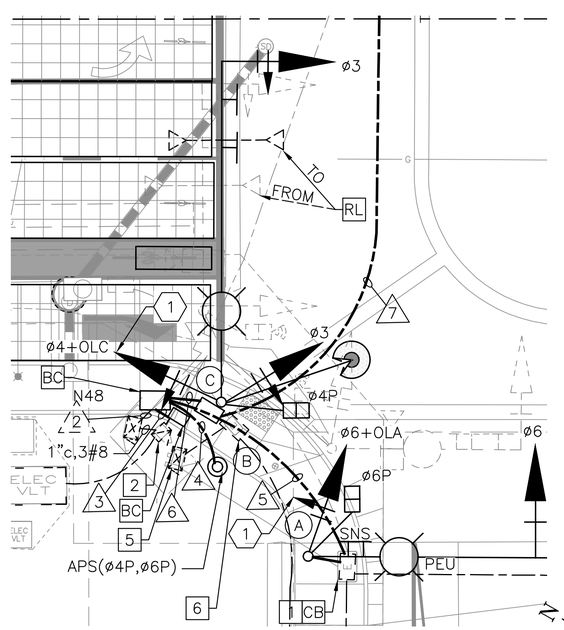

OLA = ø7
OLB = ø3

EXISTING PHASE DIAGRAM




OLA = ø7
OLB = ø3
OLC = ø5

PROPOSED PHASE DIAGRAM




## DETAIL A

1"=10'

## GENERAL NOTES (THIS SHEET ONLY)

1. ALL WIRING AND EQUIPMENT CONSTRUCTION SHALL CONFORM TO THE CITY OF SANTA ROSA TRAFFIC STANDARDS LATEST EDITIONS AND THE 2023 CALIFORNIA STANDARD PLANS AND SPECIFICATIONS FOR DETAILS NOT COVERED IN THE CITY STANDARDS.
2. A RUN OF CONDUIT SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF FOUR 1/4 BENDS (360°) TOTAL INCLUDING OFFSETS AND BENDS LOCATED AT THE PULL BOXES AND SERVICE POINTS IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE 347–14.
3. ALL PULL BOXES SHALL BE CALTRANS NO. 5 PER STANDARD PLANS EX–8A UNLESS OTHERWISE NOTED.
4. VIDEO DETECTION SHALL CONSIST OF A GRIDSMART CAMERA DETECTION SYSTEM. CONTRACTOR SHALL COMPLY WITH VENDOR GUIDELINES FOR INSTALLATION OF ALL COMPONENTS. CONTRACTOR SHALL HAVE VENDOR–REPRESENTATIVE COMPLETE CAMERA SET–UP A MINIMUM OF 24 HOURS BEFORE TURN–ON.
5. ALL PUSH BUTTON LOCATIONS SHALL MEET THE MINIMUM ADA OBSTRUCTED HIGH SIDE REACH OF 10 INCHES MAXIMUM.
6. CALL UNDERGROUND SERVICE ALERT (USA) AT 811 OR 1–800–277–2600 AT LEAST TWO (2) WORKING DAYS PRIOR TO STARTING EXCAVATION TO HAVE UTILITIES MARKED.

0 20' 40'
SCALE: 1"=20'

REGISTERED PROFESSIONAL ENGINEER ALLISON C. MOSER C94120 CIVIL STATE OF CALIFORNIA
7/2024

City of Santa Rosa
W-Trans
490 Mendocino Avenue, Suite 201
Santa Rosa, CA 95401
(707) 542-9500 Fax (707) 542-9590

| NO. | DATE | REVISION | BY |
|---|---|---|---|

SCALE: AS SHOWN
DWN BY: ACM
DATE: JULY 2024
CHK BY: AP

City of Santa Rosa
B STREET AND 3RD STREET RIGHT TURN POCKET IMPROVEMENTS
TRAFFIC SIGNAL MODIFICATION

CONTRACT NO. C02408
SHEET 8 OF 11
FILE NO. 2023–0025

## CONDUCTOR TABLE

| AWG | CIRCUIT | 2 | 3 | 4 | 5 | 6 | 7 | 9 | 11 | 12 | 16 | 18 | 19 | 21 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NO. 14 | ø1 | | | | | | | | | | 3(AB) | | | |
| | ø2 | 6 | | | 3 | 3 | 3 | | 3 | 3 | 3 | 3 | 3 | |
| | ø3 | 3 | | | | 3 | 3 | | | | | | | |
| | ø4 | 3 | | | 3 | 3 | | | | | 3 | 3 | 3 | 3 |
| | ø5 | 3 | | | | 3 | 3 | 3 | | | | | | |
| | ø6 | 6 | | | 3(N) | 3 | 3 | 3 | | | | | | |
| | ø7 | 3 | | | | 3 | 3 | | 3 | | | | | |
| | ø8 | 6 | | | | 6 | 6 | | 3 | | | | | |
| | OLA | 2,2(N) | | | 2(N) | 2 | 2 | 2 | | | | | | |
| | OLB | 4 | | | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | |
| | OLC | 2 | | | 2(N) | 2 | | | | | 2(N) | 2(N) | 2(N) | 2(N) |
| | | | | | | | | | | | | | | |
| | ø2P | 4 | | | 2 | 2 | 2 | | 2 | 2 | 2 | 2 | 2 | |
| | ø4P | 4 | | | 2 | 2 | | | | | 2 | 2 | 2 | 2 |
| | ø6P | 4 | | | 2(N) | 2 | 2 | | | | | | | |
| | ø8P | 4 | | | | 4 | 4 | 2 | 2 | | | | | |
| | | | | | | | | | | | | | | |
| | APS(ø2P) | 1 | | | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | 1 |
| | APS(ø4P) | 2 | | 1(N) | 1 | | | | | | 1 | 1 | 1 | |
| | APS(ø6P) | 1 | | 1(N) | | 1 | 1 | | | | | | | |
| | APS(ø8P) | 2 | | | | 2 | 2 | 1 | 1 | 1 | | | | |
| | | | | | | | | | | | | | | |
| | PPB COMMON | 1 | | 1(N) | 1(N) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | SPARES | 3 | | 3(N) | 3(N) | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | PEC | 1 | | | 1 | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | TOTAL No. 14 | 63 | 0 | 5 | 26 | 48 | 41 | 15 | 21 | 12 | 20 | 20 | 20 | 12 |
| NO. 8 | SIGNAL NEUTRAL | 1 | | 1(N) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | LIGHTING | 4 | | | 2 | 2 | 2 | 2 | | | 2 | 2 | 2 | 2 |
| | EQUIP. GROUND | 1 | 1 | 1(N) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | SERVICE | | 2 | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | TOTAL No. 8 | 6 | 3 | 2 | 4 | 4 | 4 | 4 | 2 | 2 | 4 | 4 | 4 | 4 |
| VIDS | VIDEO DETECTION | 1(N) | | | | 1(N) | | | | | | | | |
| SIC | 24PR INTER5CONNECT | 2 | | | 2 | | | | | | 2 | 2 | 2 | |
| EVU CABLE | CHANNEL A | 1 | | | | 1 | | | | | | | | |
| | CHANNEL B | 1 | | | | 1 | 1 | 1 | | | | | | |
| | CHANNEL C | 1 | | | | 1 | | | | | | | | |
| | CHANNEL D | 1 | | | | 1 | 1 | 1 | | | | | | |
| | TOTAL EV CABLES | 4 | | | | 4 | 2 | 2 | | | | | | |
| CONDUIT SIZE (INCHES) | | 2–3" (N) | 2"(N) | 2"(N) | 3"(N) | 3"(N) | 3"(N) | 2.5" (E) | 4"(E) | 4"(E) | 3"(E) | 3"(E) | 2.5" (E) | 2"(E) |
| CONDUIT FILL (PERCENT) | | 15 | 5 | 7 | 13 | 20 | 17 | 15 | 4 | 3 | 8 | 12 | 18 | 15 |

(N) = NEW CONDUCTORS AND CABLES

ALL CONDUCTORS AND CONDUITS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED

## POLE AND EQUIPMENT SCHEDULE

| No. | STANDARD TYPE | STANDARD SMA | STANDARD LMA | VEHICLE SIGNAL MAST ARM MTG | VEHICLE SIGNAL MAST ARM ø | VEHICLE SIGNAL POLE MTG | VEHICLE SIGNAL POLE ø | PED SIGNAL ø | PED SIGNAL MTG | APS ø | APS ARROW | LED LUMINAIRE | SPECIAL REQUIREMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 26–3–100 (N) | 45 | 12 | MAT (N) MAS (N) | 6 | SV–1–T (N) | 6+OLA | 6P | SP–1–T (N) | – | – | 101 (N) | SNS "B St", R3–18, PEU |
| B | APS POST (N) | – | – | – | – | – | – | – | – | 6P (N), 4P (N) | RIGHT (N) LEFT (N) | – | MOUNT PUSH BUTTON 3'6" FROM SIDEWALK ELEVATION. |
| C | 26–3–100 (N) | 45 | 12 | MAT (N) MAS (N) | 3 | SV–2–T (N) | 3 4+OLC | 4P | SP–1–T (N) | – | – | 101 (N) | PHASE 3 TENON TO BE MOUNTED BACKWARD, R3–4 (N), R61–17 (N), EVA (E), EVC (E), GRIDSMART CAMERA (N) |
| d | 19–2–70 (E) | 25 | 12 | MAT | 3 | SV–1–T | 8 | 6P | SP–1–T | 6P (N) | RIGHT (N) | 101 | EX SNS |
| e | 18–4–70 (E) | 30 | 12 | MAS | 5 | SV–2–T | 5 6+OLA | 8P | SP–1–T | 8P (N) | RIGHT (N) | 101 | EX R3–1 |
| f | 17 (E) | 15 | – | MAS | 2 | SV–1–T | 2+OLB | 2P | SP–1–T | 8P (N) | LEFT (N) | | EX SNS |
| g | 19 (E) | 30 | – | MAT | 7 | SV–2–TA | 7 8 | 8P | SP–1–T | 2P (N) | RIGHT (N) | – | EX R3–1 |
| h | 16 (E) | 15 | 12 | MAT | 4 | SV–1–T (N) | 4+OLC (N) | 4P | SP–1–T | 2P (N) | LEFT (N) | 101 | EX SNS |
| i | 18–4–70 (E) | 30 | – | MAT | 2 | SV–1–T | 2+OLB | 2P | SP–1–T | 4P (N) | RIGHT (N) | – | EX R3–18 |

ALL EQUIPMENT IS EXISTING TO REMAIN UNLESS OTHERWISE NOTED
(N)= NEW SIGNAL EQUIPMENT

REGISTERED PROFESSIONAL ENGINEER ALLISON C. MASER C94120 CIVIL STATE OF CALIFORNIA
Allison C. Maser 7/16/24
7/2024

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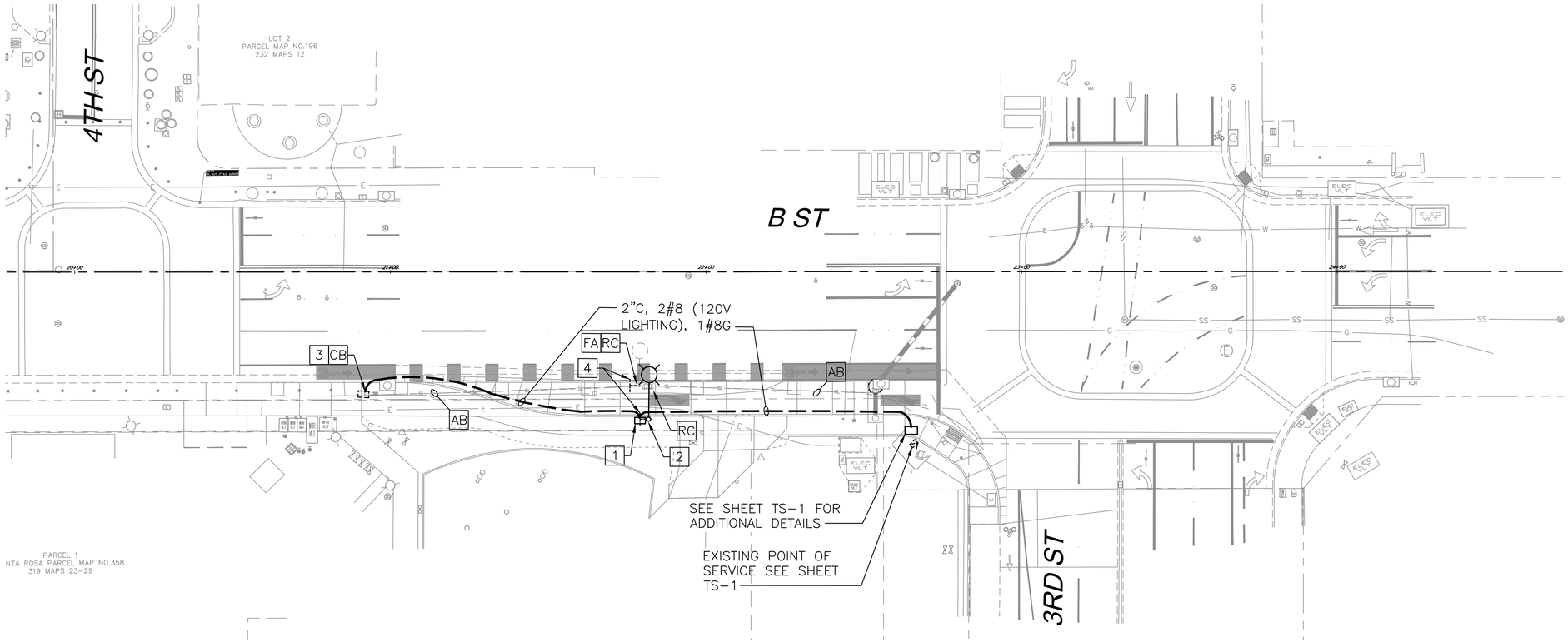
DATE: JULY 2024
CHK BY: AP
SCALE: AS SHOWN
DWN BY: ACM

City of Santa Rosa
B STREET AND 3RD STREET RIGHT TURN POCKET IMPROVEMENTS

TRAFFIC SIGNAL SCHEDULES

CONTRACT NO. C02408
SHEET 9 OF 11
FILE NO. 2023–0025




## GENERAL NOTES (THIS SHEET ONLY)

1. ALL WORK SHALL CONFORM TO CITY OF SANTA ROSA STREET LIGHT DESIGN STANDARDS (REVISED) MOST CURRENT EDITION.
2. CONTRACTOR SHALL COORDINATE WITH CITY OF SANTA ROSA, ELECTRICAL TECHNICIAN, (707)-543-3828 AND PG&E LOCAL SERVICE REPRESENTATIVE MICHAEL MILLER, (707)-483-9978, TO HAVE LIGHTING CIRCUIT TURNED OFF FOR INSTALLATION AND TURNED BACK ON WHEN COMPLETE.

## LEGEND (THIS SHEET ONLY)

AB – ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS
CB – INSTALL CONDUIT INTO EXISTING PULL BOX
FA – FOUNDATION TO BE ABANDONED
RC – EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME PROPERTY OF THE CONTRACTOR

## PROJECT NOTES (THIS SHEET ONLY)

1. FURNISH AND INSTALL NEW NO. 5 PULL BOX PER CITY STANDARD 603B.
2. FURNISH AND INSTALL 101W LIGHT FIXTURE AND 32 FOOT POLE AND FOUNDATION PER CITY OF SANTA ROSA STANDARD 610, 620A AND 621.
3. SPLICE TWO NEW NO. 8 CONDUCTORS TO EXISTING LIGHT CIRCUIT, USING SOLDERLESS AND WATERPROOF CONNECTORS PER CITY LIGHTING STANDARDS. DISCONNECT AND INSULATE ANY CONDUCTORS EXTENDING TO THE SOUTH.
4. REMOVE AND RELOCATE EXISTING R26(CA) AND MODIFIED D15-1 (ALTERNATE) "TO US 101 RIGHT ARROW".

0 20' 40'
SCALE: 1"=20'

N

REGISTERED PROFESSIONAL ENGINEER
ALLISON C. MOSER
C94120
CIVIL
STATE OF CALIFORNIA
7/2024

City of Santa Rosa
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Santa Rosa, CA 95401
(707) 542-9500 Fax (707) 542-9590

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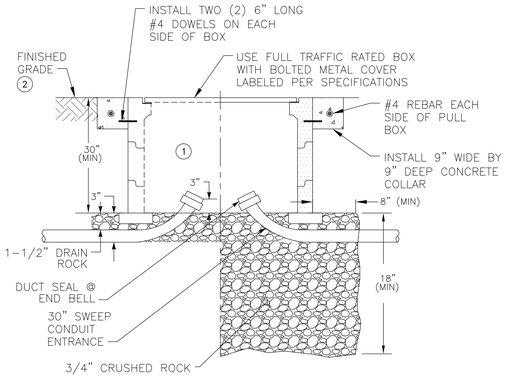
|---|---|---|---|

DATE: JULY 2024
CHK BY: AP
SCALE: AS SHOWN
DWN BY: ACM

City of Santa Rosa
B STREET AND 3RD STREET RIGHT TURN POCKET IMPROVEMENTS
STREET LIGHTING MODIFICATION

CONTRACT NO. C02408
SHEET 10 OF 11
FILE NO. 2023-0025

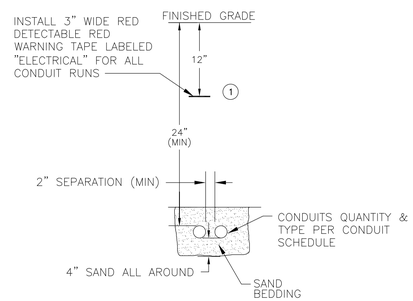



PULL BOX DETAIL (A / 11)

NOT TO SCALE

NOTES: (1) TRAFFIC RATED CHRISTY B2436 OR EQUAL, MINIMUM BOX SIZE. PROVIDE LARGER AT NO ADDTIONAL COST TO OWNER.

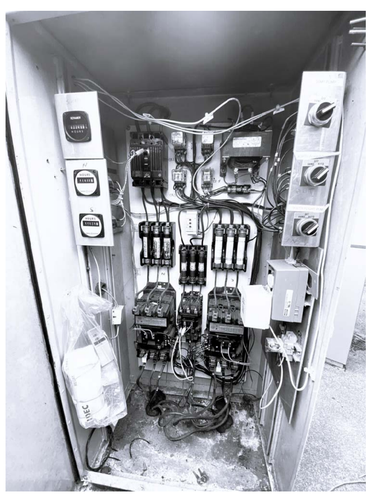
(2) ADD EXTENSIONS WHERE NECESSARY TO RAISE COVER TO FINISHED GRADE.



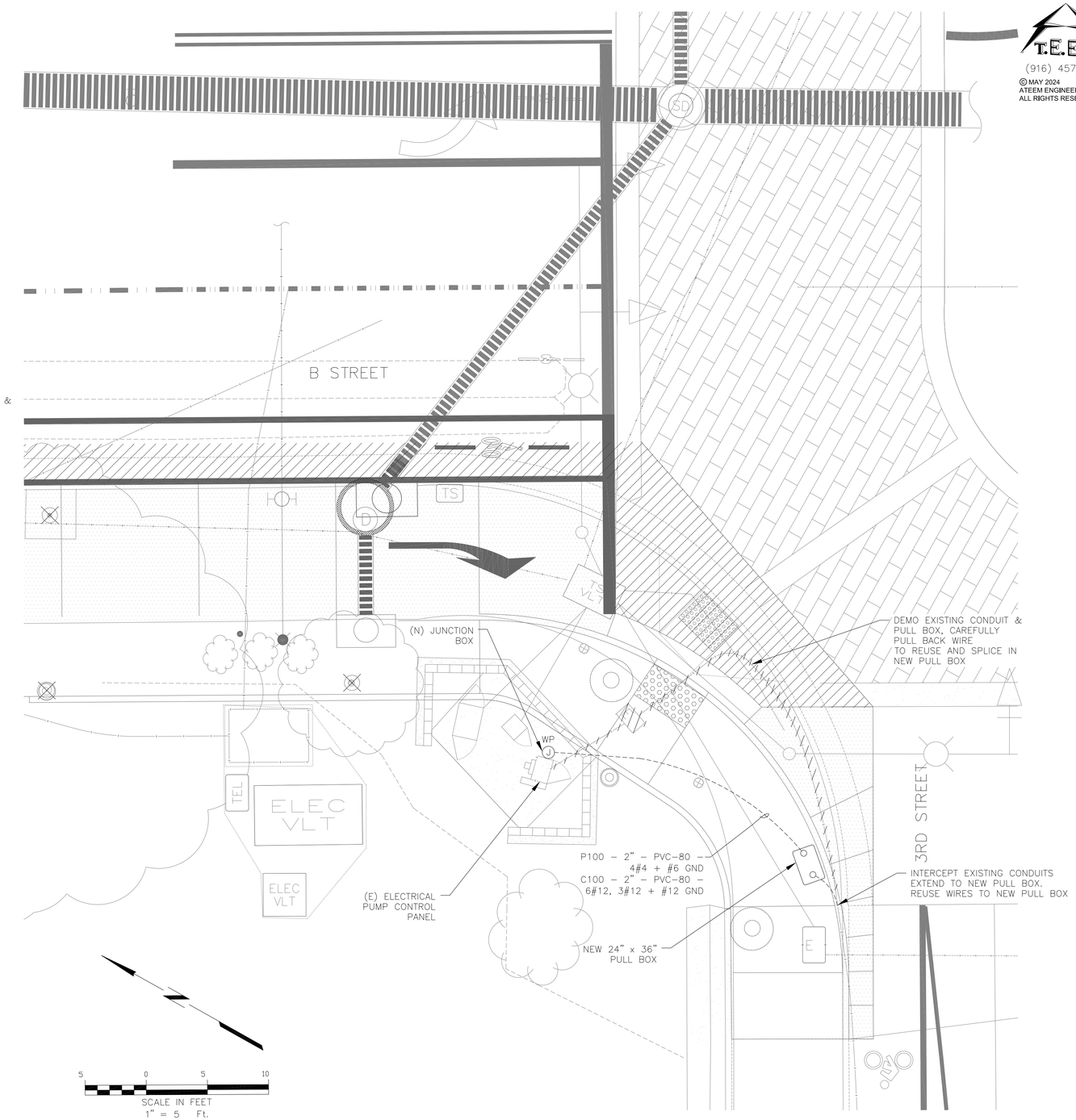

UNDERGROUND CONDUIT DETAIL (B / 11)

NOT TO SCALE

NOTES: (1) TRENCHING & COMPACTED BACKFILL PER CITY STANDARDS.



EXISTING ELECTRICAL PANEL PHOTO (C / 11)




CURB RAMPS WEST SIDE (B STREET/3 RD STREET) ELECTRICAL PLAN

T.E.E.M.
(916) 457-8144

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REGISTERED PROFESSIONAL ENGINEER
S. M. KING
NO. 15039
Exp 6-30-2026
ELECTRICAL
STATE OF CALIFORNIA
7/3/2024

City of Santa Rosa

Brelje & Race
CONSULTING ENGINEERS
470 Atlantic Ave., Suite 220 Long Beach, CA 90802 (562) 435-2222

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|---|---|---|---|

SCALE: AS SHOWN
DWN BY: ZKV
DATE: MAY 2024
CHK BY: SMK

City of Santa Rosa

**B STREET AND 3RD STREET RIGHT TURN POCKET IMPROVEMENTS**

**SIDEWALK & CURB RAMP ELECTRICAL DETAILS**

CONTRACT NO. C02408

SHEET 11 OF 11

FILE NO. 2023-0025

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