

# SOLACE APARTMENTS FILING NO. 2

A PORTION OF SECTION 7, TOWNSHIP 14 SOUTH, RANGE 65 SEST OF THE P.M.

EL PASO COUNTY, COLORADO

## CONSTRUCTION DOCUMENTS

GALLEY RD. & PAONIA ST. - TRAFFIC SIGNAL PLANS

PCD NO: CDR-23-11

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VICINITY MAP  
1" = 500'

### CONTACTS

**OWNER:**  
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CONTACT: DANE OLMSTEAD

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5475 TECH CENTER DRIVE STE 235  
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**CIVIL ENGINEER:**  
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**EL PASO COUNTY:**  
EL PASO COUNTY  
PCD DEPARTMENT  
2880 INTERNATIONAL CIRCLE, SUITE 110  
COLORADO SPRINGS, CO 80910  
PHONE: (719) 520-6300

### DEVELOPER'S SIGNATURE BLOCK

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

DANE OLMSTEAD \_\_\_\_\_ DATE \_\_\_\_\_

### ENGINEER'S SIGNATURE BLOCK

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH THE APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THE DETAILED PLANS AND SPECIFICATIONS



*Kevin Kofford*  
KEVIN KOFFORD, PE - KIMLEY-HORN AND ASSOCIATES, INC. \_\_\_\_\_ DATE 6/7/2023

### EL PASO COUNTY REVIEW STATEMENT

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN DIMENSIONS AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL, AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

JOSHUA PALMER, P.E. \_\_\_\_\_ DATE \_\_\_\_\_  
COUNTY ENGINEER / ECM ADMINISTRATOR

### GENERAL NOTE:

THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATIONS AND THE PROPOSED PLAN REFLECTS ALL THE SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUST. APPROVAL OF THIS PLAN BY EL PASO COUNTY DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.

### BENCHMARK

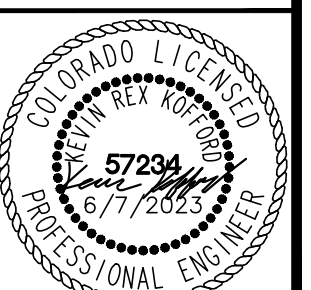
FIMS MONUMENT F81, BEING MONUMENTED BY A 3-1/4" ALUMINUM CAP IN RANGE BOX WITH NO TOP, LOCATED 900 FEET EAST OF THE INTERSECTION OF E. PLATTE AVENUE AND VALLEY STREET, APPROXIMATELY 80 FEET NORTH OF THE CENTERLINE OF E PLATTE AVENUE. SAID MONUMENT HAVING A PUBLISHED ELEVATION OF 6275.86 FEET, NAVD88

NO.	REVISION	BY	DATE	APPR

**Kimley»Horn**  
2023 KIMLEY-HORN AND ASSOCIATES, INC.  
2 North Nevada Avenue, Suite 900  
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: KRK  
DRAWN BY: RES  
CHECKED BY: EJK  
DATE: 06/07/2023

SOLACE APARTMENTS FILING NO. 2  
CONSTRUCTION DOCUMENTS  
GALLEY RD & PAONIA ST - TRAFFIC SIGNAL PLANS  
COVER SHEET



PROJECT NO.  
096668009

SHEET

1



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PLAN NUMBER	M STANDARD TITLE	PAGE NUMBER
<input type="checkbox"/>	M-100-1	STANDARD SYMBOLS (3 SHEETS) .....1-3
<input type="checkbox"/>	M-100-2	ACRONYMS AND ABBREVIATIONS (4 SHEETS) .....4-7
<input type="checkbox"/>	M-203-1	APPROACH ROADS..... 8
<input type="checkbox"/>	M-203-2	DITCH TYPES ..... 9
<input type="checkbox"/>	M-203-11	SUPERELEVATION CROWNED AND DIVIDED HIGHWAYS (3 SHEETS) .....10-12
<input type="checkbox"/>	M-203-12	SUPERELEVATION STREETS (2 SHEETS) .....13-14
<input type="checkbox"/>	M-206-1	EXCAVATION AND BACKFILL FOR STRUCTURES (2 SHEETS) .....15-16
<input type="checkbox"/>	M-206-2	EXCAVATION AND BACKFILL FOR BRIDGES (2 SHEETS) .....17-18
<input type="checkbox"/>	M-208-1	TEMPORARY EROSION CONTROL (11 SHEETS) ..... 19-29
<input type="checkbox"/>	M-210-1	MAILBOX SUPPORTS (2 SHEETS) .....30-31
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<input type="checkbox"/>	M-216-1	SOIL RETENTION COVERING (2 SHEETS) .....33-34
<input type="checkbox"/>	M-412-1	CONCRETE PAVEMENT JOINTS (9 SHEETS) ..... <del>35-39</del>
<input type="checkbox"/>	M-412-2	CONCRETE PAVEMENT CRACK REPAIR (6 SHEETS) <i>(REVISED ON SEPTEMBER 6, 2022)</i>
<input type="checkbox"/>	M-510-1	STRUCTURAL PLATE PIPE H-20 LOADING .....40
<input type="checkbox"/>	M-601-1	SINGLE CONCRETE BOX CULVERT (CAST-IN-PLACE) (2 SHEETS) .....41-42
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<input type="checkbox"/>	M-603-1	METAL PIPE (4 SHEETS) ..... 52-55
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<input type="checkbox"/>	M-603-3	PRECAST CONCRETE BOX CULVERT ..... <del>57</del>
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<input type="checkbox"/>	M-603-5	POLYVINYL CHLORIDE (PVC) PIPE (AASHTO M304) ..... 59
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<input type="checkbox"/>	M-603-10	CONCRETE AND METAL END SECTIONS ..... 61
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<input type="checkbox"/>	M-606-14	PRECAST TYPE 7 CONCRETE BARRIER (4 SHEETS) ..... <del>102-104</del>
<input type="checkbox"/>	M-606-15	GUARDRAIL TYPE 9 SINGLE SLOPE BARRIER (11 SHEETS) <i>(REVISED ON FEBRUARY 17, 2023)</i> ..... <del>105-115</del>
<input type="checkbox"/>	M-607-1	WIRE FENCES AND GATES (3 SHEETS) .....116-118
<input type="checkbox"/>	M-607-2	CHAIN LINK FENCE (3 SHEETS) .....119-121
<input type="checkbox"/>	M-607-3	BARRIER FENCE .....122
<input type="checkbox"/>	M-607-4	DEER FENCE, GATES, AND GAME RAMPS (7 SHEETS)..... <del>123-127</del>
<input type="checkbox"/>	M-607-10	PICKET SNOW FENCE .....128
<input type="checkbox"/>	M-607-15	ROAD CLOSURE GATE (9 SHEETS).....129-137
<input type="checkbox"/>	M-608-1	CURB RAMPS (10 SHEETS).....138-147
<input type="checkbox"/>	M-609-1	CURBS, GUTTERS, AND SIDEWALKS (4 SHEETS) .....148-151
<input type="checkbox"/>	M-611-1	CATTLE GUARD (2 SHEETS) .....152-153
<input type="checkbox"/>	M-611-2	DEER GUARD (2 SHEETS) .....154-155
<input type="checkbox"/>	M-614-1	RUMBLE STRIPS (3 SHEETS) .....156-158
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<input type="checkbox"/>	M-615-1	EMBANKMENT PROTECTOR TYPE 3 .....161
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<input type="checkbox"/>	S-613-1	ROADWAY LIGHTING (6 SHEETS) ..... <del>179-186</del>
<input type="checkbox"/>	S-613-2	ALTERNATIVE ROADWAY LIGHTING (4 SHEETS) <i>(NEW, ISSUED ON SEPTEMBER 30, 2020)</i>
<input type="checkbox"/>	S-614-1	GROUND SIGN PLACEMENT (2 SHEETS) .....187-188
<input type="checkbox"/>	S-614-2	CLASS I SIGNS .....189
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<input type="checkbox"/>	S-614-5	BREAK-AWAY SIGN SUPPORT DETAILS FOR CLASS III SIGNS (2 SHEETS) .....194-195
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<input type="checkbox"/>	S-614-8	TUBULAR STEEL SIGN SUPPORT DETAILS (7 SHEETS) .....198-204
<input type="checkbox"/>	S-614-9	PEDESTRIAN PUSH BUTTON POST ASSEMBLY (2 SHEETS) <i>(SUPERSEDED ON JANUARY 23, 2020 BY S-614-45)</i> .....205-206
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<input type="checkbox"/>	S-614-11	MILEPOST SIGN DETAIL FOR HIGH SNOW AREAS .....208
<input type="checkbox"/>	S-614-12	STRUCTURE NUMBER INSTALLATION (2 SHEETS) .....209-210
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<input type="checkbox"/>	S-614-20	TYPICAL POLE MOUNT SIGN INSTALLATIONS .....215
<input type="checkbox"/>	S-614-21	CONCRETE BARRIER SIGN POST INSTALLATIONS (2 SHEETS) <i>(REVISED ON SEPTEMBER 21, 2020)</i> .....216-217
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<input type="checkbox"/>	S-614-41	TEMPORARY SPAN WIRE SIGNALS (13 SHEETS) .....228-240
<input checked="" type="checkbox"/>	S-614-42	CABINET FOUNDATION DETAIL (4 SHEETS) .....241-244
<input checked="" type="checkbox"/>	S-614-43	TRAFFIC LOOP AND MISCELLANEOUS SIGNAL DETAILS (8 SHEETS) .....245-252
<input checked="" type="checkbox"/>	S-614-44	PEDESTAL POLE SIGNALS (2 SHEETS) .....253-254
<input checked="" type="checkbox"/>	S-614-45	PEDESTRIAN PUSH BUTTON POST ASSEMBLY DETAILS (6 SHEETS) <i>(REVISED ON DECEMBER 3, 2020)</i> .....255-266
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<input type="checkbox"/>	S-614-60	DYNAMIC SIGN MONOTUBE STRUCTURES (14 SHEETS) .....281-289
<input type="checkbox"/>	S-627-1	PAVEMENT MARKINGS (9 SHEETS) ..... <del>290-313</del>
<input type="checkbox"/>	S-630-1	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION (26 SHEETS) <i>(REVISED ON JANUARY 20, 2023)</i>
<input type="checkbox"/>	S-630-2	BARRICADES, DRUMS, CONCRETE BARRIERS (TEMP.) AND VERTICAL PANELS .....314
<input type="checkbox"/>	S-630-3	FLASHING BEACON (PORTABLE) DETAILS .....315
<input type="checkbox"/>	S-630-4	STEEL SIGN SUPPORT (TEMPORARY) INSTALLATION DETAILS (2 SHEETS) .....316-317
<input type="checkbox"/>	S-630-5	PORTABLE RUMBLE STRIPS (TEMPORARY) (2 SHEETS) .....318-319
<input type="checkbox"/>	S-630-6	EMERGENCY PULL-OFF AREA (TEMPORARY)..... 320
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COLORADO  
DEPARTMENT OF TRANSPORTATION  
M&S STANDARDS PLANS LIST  
July 31, 2019  
  
Revised on February 17, 2023

ALL OF THE M&S STANDARD PLANS, AS SUPPLEMENTED AND REVISED, APPLY TO THIS PROJECT WHEN USED BY DESIGNATED PAY ITEM OR SUBSIDIARY ITEM.

THE M&S STANDARD PLANS USED TO DESIGN THIS PROJECT ARE INDICATED BY A MARKED BOX  AND WILL BE ATTACHED TO THE PLANS. ALL OTHER M&S STANDARD PLANS ARE STILL ELIGIBLE FOR USE IN CONSTRUCTION IF APPROVED BY AN APPROPRIATE CDOT ENGINEER.

Computer File Information	
Creation Date: 07/31/19	
Designer Initials: JBK	
Last Modification Date: 02/17/23	
Detailer Initials: LTA	
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	

Sheet Revisions	
Date:	Comments
<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	

Colorado Department of Transportation  
2829 West Howard Place  
CDOT HQ, 3rd Floor  
Denver, CO 80204  
Phone: 303-757-9021 FAX: 303-757-9868  
Construction Engineering Services JBK

**STANDARD  
PLANS LIST**  
  
Issued by the Project Development Branch: July 31, 2019

**STANDARD PLAN NO.  
STANDARDS PLANS LIST**  
Standard Sheet No. 1 of 1  
  
Project Sheet Number:

NO.	REVISION	BY	DATE	APPR

**Kimley»Horn**  
2023 KIMLEY-HORN AND ASSOCIATES, INC.  
2 North Nevada Avenue, Suite 900  
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: KRK  
DRAWN BY: RES  
CHECKED BY: EUG  
DATE: 06/07/2023

SOLACE APARTMENTS FILING NO. 2  
CONSTRUCTION DOCUMENTS  
GALLEY RD & PAONIA ST - TRAFFIC SIGNAL PLANS  
CDOT M&S STANDARD DRAWINGS LIST



EL PASO COUNTY TRAFFIC SIGNAL NOTES:

- 1. THE CONTRACTOR SHALL PROVIDE, FOR REVIEW, BY THE ENGINEER, A COMPLETE TRAFFIC SIGNAL MATERIAL SUBMITTAL PACKAGE THAT CONTAINS, ALL OF THE PROPOSED TRAFFIC SIGNAL EQUIPMENT, INCLUDING MATERIAL SPECIFICATIONS AND DESCRIPTIONS THAT WILL BE NECESSARY TO COMPLETE THE TRAFFIC SIGNAL WORK. THE CONTRACTOR SHALL ALLOW FOR A MINIMUM THREE WEEK SUBMITTAL REVIEW PERIOD AND SHALL NOT ORDER ANY SIGNAL EQUIPMENT UNTIL AFTER A REVIEW OF ALL SUBMITTALS HAVE BEEN COMPLETED BY THE ENGINEER AND VERIFIED BY THE CONTRACTOR.
2. FUNCTIONAL AND OPERATIONAL RESPONSIBILITY FOR ALL NEWLY INSTALLED AND EXISTING TRAFFIC SIGNAL EQUIPMENT WILL BECOME THE RESPONSIBILITY OF THE CONTRACTOR UNTIL FINAL ACCEPTANCE OF THE PROJECT. THE CONTRACTOR SHALL CONSIDER THIS WORK INCIDENTAL TO THE OVERALL WORK BEING PERFORMED AND SHALL BE INCLUDED AS PART OF THE PROJECT.
... 16. THE INTERSECTION DETECTION SYSTEM (MICROWAVE VEHICLE DETECTION SYSTEM) CONTRACT ITEM INCLUDES DEVICE INSTALLATION (I.E., DETECTOR UNIT, HARDWARE, WIRING, PROCESSOR MODULE, ETC.), AND VERIFICATION OF SUCCESSFUL IN-FIELD DETECTION ZONE OPERATION BASED ON SEVERAL VEHICLE ACTUATIONS IN ALL DETECTION ZONES.

- 17. THE CONTRACTOR SHALL COORDINATE THE SCHEDULES OF THE CONTRACTED PROFESSIONAL ENGINEERING CONSULTANT AND THE EPC DEPARTMENT OF PUBLIC WORKS, HIGHWAY DIVISION TRAFFIC SIGNAL STAFF FOR SCHEDULING THE ON-SITE FIELD IMPLEMENTATION OF ALL TRAFFIC SIGNAL TIMING AND OPERATIONAL PROGRAMMING, VEHICLE DETECTION ZONE PLACEMENT, AND DETECTION EQUIPMENT POSITIONING. THIS WORK SHALL BE SCHEDULED NEAR THE END OF THE PROJECT, PRIOR TO PROJECT ACCEPTANCE, AND ONLY AFTER ALL FINAL PAVEMENT MARKINGS, SIGNING, AND TRAFFIC SIGNAL WORK HAS BEEN COMPLETED.
18. THE MICROWAVE RADAR DETECTION SYSTEM SHALL UTILIZE MS SEDCO INTERSECTOR-SBE MICROWAVE VEHICLE PRESENCE SENSOR 2.0, WITH INTERFACE BOARD (4 OUTPUTS, SINGLE CABINET SLOT).
... 30. A SEPARATE AND CONTINUOUS 21 CONDUCTOR CABLE SHALL RUN FROM THE CONTROLLER CABINET TO THE HANDHOLE AT EACH SIGNAL POLE AND SHALL CONTAIN NO SPLICES.

- 31. ALL SIGNS MOUNTED ON SIGNAL POLES, MST ARMS, AND PEDESTALS SHALL BE MOUNTED USING BANDING ALUMINUM CHANNELS, AND BACKING ZEES PER CDOT TYPICAL POLE MOUNT SIGN INSTALLATION STANDARD PLAN S-614-20, OR SIMILAR RIGID SIGN BRACING MOUNTING ASSEMBLY, AS DIRECTED BY THE ENGINEER. MAST ARM SIGNS THAT REQUIRE Z-BRACKETS SHALL BE MOUNTED ON ASTRO-STYLE BRACKETS AND RISERS. THE COST OF ALL HARDWARE FITTINGS, TOOLS, AND EQUIPMENT NECESSARY FOR A COMPLETE INSTALLING OF MAST ARM SIGNS WILL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
32. ALL CONDUCTORS AND CABINET WIRING SHALL BE COLOR CODED AND PERMANENTLY TAGGED PER ENGINEER DIRECTION AND IN ACCORDANCE WITH THE SIGNAL PHASE NUMBERING AND DETECTION ZONE PHASE NUMBERING INFORMATION CONTAINED IN THE PROJECT PLANS.
... 38. THE CONTRACTED PROFESSIONAL ENGINEERING TRAFFIC SIGNAL TIMING, CONTROLLER PROGRAMMING AND OPERATION AND OVERALL TRAFFIC SIGNAL OPERATIONAL CONSULTANT SERVICES THAT ARE TO BE RETAINED BY THE OWNER/DEVELOPER/DISTRICT SHALL INCLUDE, BUT NOT BE LIMITED TO:
A. DEVELOPING ALL TRAFFIC SIGNAL TIMING AND ALL OPERATIONAL PARAMETERS FOR ACHIEVING ISOLATED, FULL-ACTUATED VEHICLE AND PEDESTRIAN INTERSECTION OPERATION AND, WHEN DOCUMENT TO BE NECESSARY, COORDINATED SIGNAL SYSTEM TIMING PLAN OPERATION DURING VARIOUS TIMES OF THE DAY.
B. PROGRAMMING ALL SIGNAL TIMING PARAMETERS INTO THE TRAFFIC SIGNAL CONTROLLER.
C. FIELD IMPLEMENTING AND FINE-TUNING PARAMETERS INTO THE TRAFFIC SIGNAL CONTROLLER.
D. DEVELOPING, PROGRAMMING, FIELD IMPLEMENTING, AND FINE-TUNING ALL VEHICLE DETECTION ZONE DIMENSIONS, ZONE LOCATIONS, AND OPERATIONAL PARAMETERS.

ALL OF THE AFOREMENTIONED CONTRACTED PROFESSIONAL ENGINEERING TRAFFIC SIGNAL OPERATIONAL CONSULTANT SERVICED DELIVERABLES SHALL BE CONSISTENT WITH NATIONAL PUBLICATIONS, INCLUDING BUT NOT LIMITED TO: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION/REVISION, FHWA-HOP-08-024 "TRAFFIC SIGNAL TIMING MANUAL" (JUNE 2008), FHWA-HRT-04-091 "SIGNALIZED INTERSECTIONS: INFORMATION GUIDE" (AUGUST 2004), FHWA-HOP-06-006 "TRAFFIC CONTROL SYSTEMS HANDBOOK" (OCTOBER 2005), FHWA-DTHF61-01-C-00183 "SIGNAL TIMING PROCESS FINAL REPORT" (DECEMBER 2003), NCHRP REPORT 731 "GUIDELINES FOR TIMING YELLOW AND ALL-RED INTERVALS AT SIGNALIZED INTERSECTIONS" (2012), NCHRP REPORT 812 "SIGNAL TIMING MANUAL SECOND EDITION" 2015).

- NOTE:
1. THE TRAFFIC SIGNAL CONTROLLER CONTRACT ITEM IS TO BE INCLUSIVE OF ETHERNET SWITCH, CELLULAR GATEWAY, AND SURGE PROTECTION
2. THE TRAFFIC SIGNAL CONTROLLER CABINET CONTRACT ITEM IS TO BE INCLUSIVE OF FOUNDATION PAD AND CLARY UNINTERRUPTIBLE POWER SUPPLY
3. POWER SOURCE WIRE IS TO BE CAT5E OUTDOOR CABLE (CMXT 350 MHz, SOLID, 24 AWG, FOIL WATERPROOF TAPE 1000F/ROLL)

K:\COS\_LA\196140002 - Cimarron Hills\Phase 2\CADD\PlanSheets\SIG\196140002 - SIG\_NOTES.dwg Schneibach, Ryan 6/7/2023 7:52 AM

Table with columns: NO., REVISION, BY, DATE, APPR.

Kimley»Horn logo and contact information: 2023 KIMLEY-HORN AND ASSOCIATES, INC. 2 North Nevada Avenue, Suite 900 Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: KRK
DRAWN BY: RES
CHECKED BY: EJJ
DATE: 06/07/2023

SOLACE APARTMENTS FILING NO. 2
CONSTRUCTION DOCUMENTS
GALLEY RD & PAONIA ST - TRAFFIC SIGNAL PLANS
NOTES



PROJECT NO. 09668009
SHEET

K:\COS\_LA\196140002 - Cimarron Hills\Phase 2\CADD\PlanSheets\SIG\196140002 - SIG\_NOTES.dwg Schmelbach, Ryan 6/7/2023 7:52 AM

### STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS

- ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
- CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
  - EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
  - CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
  - COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
  - CDOT M & S STANDARDS
- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.

Please provide the remaining County construction notes #8-15

8. Contractor shall not deviate from the plans without first obtaining written approval from the design engineer and PCD. Contractor shall notify the design engineer immediately upon discovery of any errors or inconsistencies.

9. All storm drain pipe shall be Class III RCP unless otherwise noted and approved by PCD.

10. Contractor shall coordinate geotechnical testing per ECM standards. Pavement design shall be approved by El Paso County PCD prior to placement of curb and gutter and pavement.

11. All construction traffic must enter/exit the site at approved construction access points.

12. Sight visibility triangles as identified in the plans shall be provided at all intersections. Obstructions greater than 18 inches above flowline are not allowed within sight triangles.

13. Signing and striping shall comply with El Paso County DOT and MUTCD criteria. [If applicable, additional signing and striping notes will be provided.]

14. Contractor shall obtain any permits required by El Paso County DOT, including Work Within the Right-of-Way and Special Transport permits.

15. The limits of construction shall remain within the property line unless otherwise noted. The owner/developer shall obtain written permission and easements, where required, from adjoining property owner(s) prior to any off-site disturbance, grading, or construction.

KH RESPONSE: Standard notes for el paso county construction plans have been updated to include the provided notes #8 - #15

### EL PASO COUNTY STANDARD SIGNAGE AND STRIPING NOTES:

- ALL SIGNS AND PAVEMENT MARKING SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.
- ANY DEVIATION FROM THE SIGNAGE AND STRIPING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT.
- ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.
- STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
- ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
- ALL STREET NAME SIGNS SHALL BE "D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 40 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS".
- ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
- ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.
- ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" THICKNESS.
- ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH, CROSSWALK LINES SHALL BE 2' WIDE AND 9' LONG.
- ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15 MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.
- THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-6819 PRIOR TO AND UPON COMPLETION OF THE SIGNING AND STRIPING.
- THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.

Revise note 7 to:  
All street name signs shall have "D" series letters, with local roadway signs being 4" upper-lower case lettering on 8" blank and non-local roadway signs being 6" lettering, upper-lower case on 12" blank, with a white border that is not recessed. Multi-lane roadways with speed limits of 35 mph or higher shall have 8" upper-lower case lettering on 12" blank with a white border that is not recessed. The width of the non-recessed white borders shall match page 255 of the 2012 MUTCD "Standard Highway Signs". Signal pole mounted and overhead street name signs shall be per MUTCD size standards.

Please relocate this statement to its own item (#12) per latest signing and striping notes. Re-number the remaining notes.

KH RESPONSE: This portion of note #11 has been relocated as its own note, being note #12.

KH RESPONSE: Note 7 has been revised per the provided note.

### GENERAL NOTES:

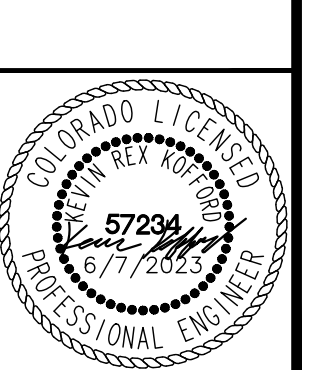
- THE CONTRACT DOCUMENTS SHALL NOT CREATE, NOR SHALL BE CONSTRUED TO CREATE, ANY CONTRACTUAL RELATIONSHIP BETWEEN THE ENGINEER AND THE CONTRACTOR AND/OR ANY SUBCONTRACTOR.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK, AND WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE IN ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED CONSTRUCTION PERMITS, CERTIFICATIONS, BONDS, ETC. REQUIRED FOR CONSTRUCTION PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR TO LOCATE ALL EXISTING PROPERTY MONUMENTS PRIOR TO CONSTRUCTION, ANY MONUMENTS DISTURBED DURING THE CONSTRUCTION OF THIS PROJECT SHALL BE REPLACED BY REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL VERIFY BENCHMARKS AND DATUMS PRIOR TO COMMENCING CONSTRUCTION OR STAKING OF IMPROVEMENTS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER PRIOR TO COMMENCING WITH CONSTRUCTION.
- THE CONTRACTOR TO ARRANGE FOR ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS TO BE SENT TO THE OWNER AND DESIGN ENGINEER OF RECORD DIRECTLY FROM THE TESTING AGENCY.
- ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, JURISDICTIONAL AGENCIES AND/OR UTILITY SERVICE COMPANIES IS REQUIRED OF THE CONTRACTOR AND SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
- PREPARATION OF TRAFFIC CONTROL PLAN(S) IS THE CONTRACTOR'S RESPONSIBILITY.

NO.	REVISION	DATE	APPR

**Kimley»Horn**  
 2023 KIMLEY-HORN AND ASSOCIATES, INC.  
 2 North Nevada Avenue, Suite 900  
 Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: KRK  
 DRAWN BY: RES  
 CHECKED BY: EJJ  
 DATE: 06/07/2023

SOLACE APARTMENTS FILING NO. 2  
 CONSTRUCTION DOCUMENTS  
 GALLEY RD & PAONIA ST - TRAFFIC SIGNAL PLANS  
 NOTES



PROJECT NO.  
096668009

SHEET  
4

K:\COS\_LA\196140002 - Cimarron Hills\Phase 2\CADD\PlanSheets\SIG\196140002 - SIG\_NOTES.dwg Schmelbach, Ryan 6/7/2023 7:52 AM

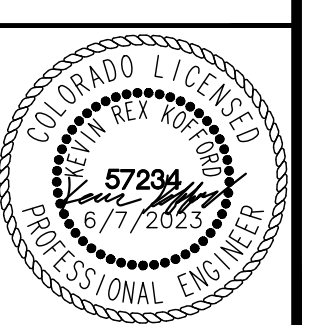
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			PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.		
202-00250	REMOVAL OF PAVEMENT MARKING	SF	12											12		
203-01597	POTHOLING	EA	6											6		
503-00018	DRILLED CAISSON (18-INCH)	LF	15											15		
503-00036	DRILLED CAISSON (36-INCH)	LF	74											74		
613-00200	2 INCH ELECTRICAL CONDUIT	LF	107											107		
613-00206	2 INCH ELECTRICAL CONDUIT (BORED)	LF	442											442		
613-00300	3 INCH ELECTRICAL CONDUIT	LF	31											31		
613-00306	3 INCH ELECTRICAL CONDUIT (BORED)	LF	663											663		
613-07004	CDOT TYPE 4 PULL BOX	EA	3											3		
613-07005	CDOT TYPE 5 PULL BOX	EA	1											1		
613-10000	WIRING	LS	1											1		
613-13000	LUMINAIRE (LED)	EA	3											3		
613-50109	METER POWER PEDESTAL	SF	1											1		12" WIDE CP3A SIZE 12" WIDE SLIMLINE PEDESTAL
614-00011	SIGN PANEL (CLASS I)	SF	68											68		
614-00037	SIGN PANEL (SPECIAL)	EA	4											4		OVERHEAD STREET NAME SIGN (2'X8.5')
614-70150	PEDESTRIAN SIGNAL FACE (16) (COUNTDOWN)	EA	6											6		
614-70336	TRAFFIC SIGNAL FACE (12-12-12)	EA	10											10		W/ BACKPLATES & 1.5" REFLECTIVE TAPE
614-70448	TRAFFIC SIGNAL FACE (12-12-12-12 ARROW)	EA	8											8		W/ BACKPLATES & 1.5" REFLECTIVE TAPE
614-72836	CONFLICT MONITOR	EA	1											1		MODEL 2010 ECLIP W/ ETHERNET PORT (EDI)
*614-72855	TRAFFIC SIGNAL CONTROLLER CABINET	EA	1											1		MCCAIN 350i A TC
614-72860	PEDESTRIAN PUSH BUTTON	EA	6											6		WITH INSTRUCTION SIGN
614-72895	MICROWAVE VEHICLE DETECTION SYSTEM	EA	4											4		SEBCO INTERSECTOR-SBE W/ INTERFACE BOARD
614-81130	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-30 FOOT MAST ARM)	EA	1											1		PELCO TRAFFIC SIGNAL POLE
614-81135	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-35 FOOT MAST ARM)	EA	1											1		PELCO TRAFFIC SIGNAL POLE
614-81140	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-40 FOOT MAST ARM)	EA	1											1		PELCO TRAFFIC SIGNAL POLE
614-81150	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-50 FOOT MAST ARM)	EA	1											1		PELCO TRAFFIC SIGNAL POLE
614-84100	TRAFFIC SIGNAL PEDESTAL POLE ALUMINUM	EA	3											3		5' PED POLE x2 ; 10' PED POLE x1
614-86238	TRAFFIC SIGNAL CONTROLLER	EA	1											1		FLEX, RACK MOUNT, C1 CONN., W/ OMNI SOFTWARE
623-04002	POWER SOURCE WIRE	LF	93											93		CAT5E OUTDOOR CABLE, CMXT 350MHz
625-00000	CONSTRUCTION SURVEYING	LS	1											1		
626-00000	MOBILIZATION	LS	1											1		
627-00002	THERMOPLASTIC PAVEMENT MARKING	SF	310											310		
630-00016	TRAFFIC CONTROL (SPECIAL) LS	LS	1											1		

NO.	REVISION	BY	DATE	APPR

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 2023 KIMLEY-HORN AND ASSOCIATES, INC.  
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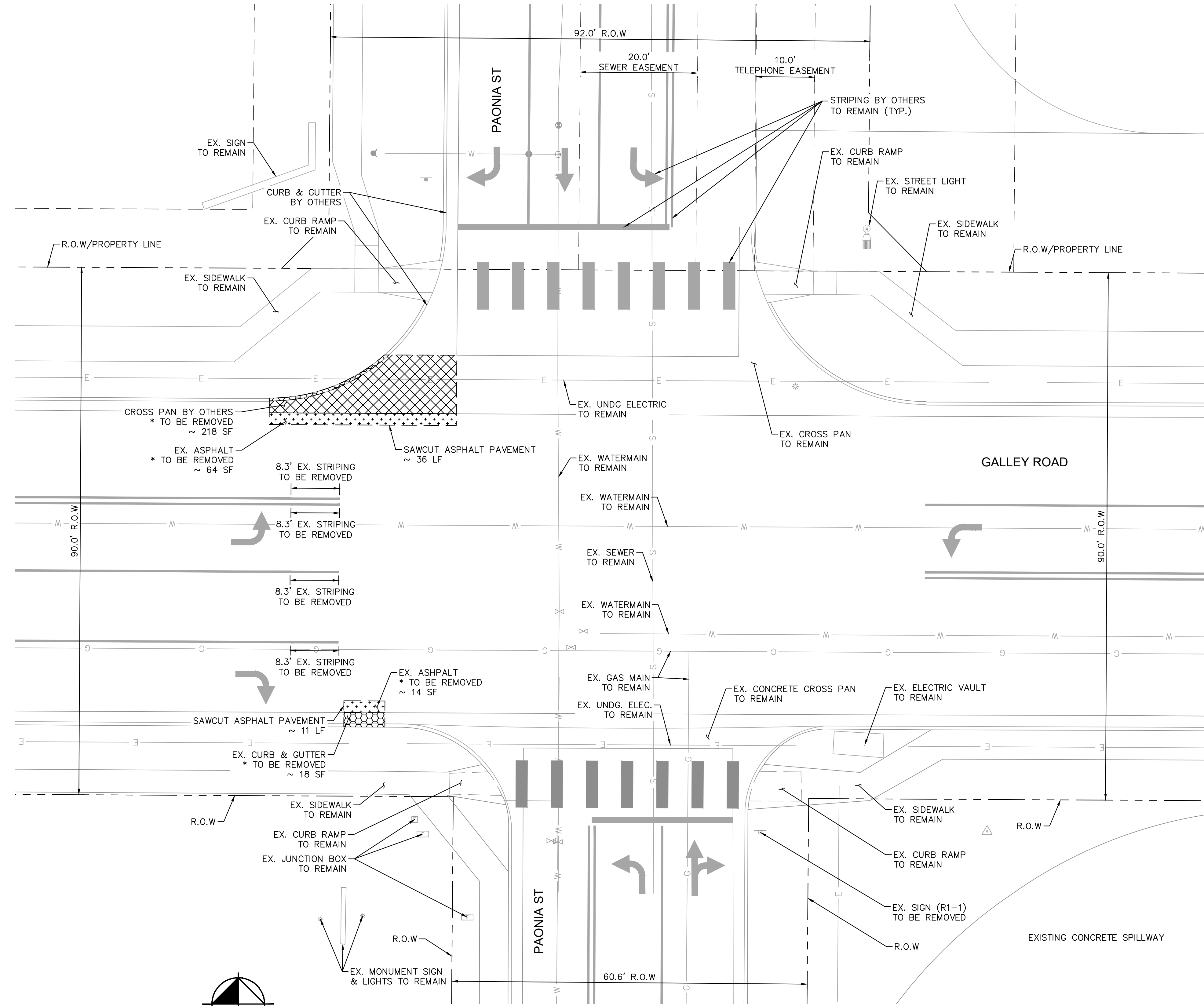
DESIGNED BY: KRK  
 DRAWN BY: RES  
 CHECKED BY: EJJ  
 DATE: 06/07/2023

**SOLACE APARTMENTS FILING NO. 2**  
 CONSTRUCTION DOCUMENTS  
 GALLEY RD & PAONIA ST - TRAFFIC SIGNAL PLANS  
 SUMMARY OF QUANTITIES



PROJECT NO.  
09668009  
 SHEET  
5

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**UTILITY LEGEND**

- G — EXISTING UNDERGROUND NATURAL GAS
- E — EXISTING UNDERGROUND ELECTRIC
- S — EXISTING SANITARY SEWER
- W — EXISTING WATER MAIN

**REMOVAL LEGEND**

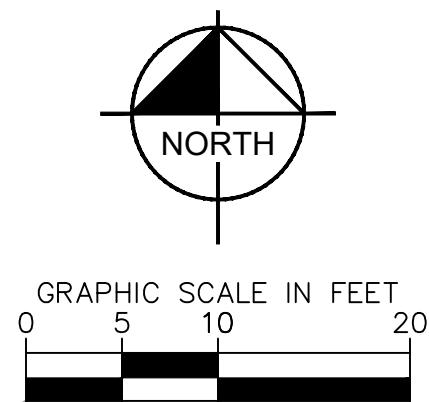
- REMOVE EX. CONCRETE CROSS PAN
- REMOVE EXISTING CURB & GUTTER
- REMOVE EXISTING ASPHALT
- SAWCUT

**\* REMOVAL NOTES**

1. REMOVAL QUANTITIES MAY VARY IN THE FIELD.
2. CONTRACTOR TO REMOVE CONCRETE CROSS PAN AND CURB & GUTTER AT THE APPROPRIATE JOINT FOR PROPER INSTALLATION OF PROPOSED INFRASTRUCTURE.
3. CONTRACTOR TO REMOVE CONCRETE CROSS PAN AND CURB & GUTTER AT THE APPROPRIATE JOINT TO MINIMIZE REMOVAL/DISTURBANCE OF EXISTING INFRASTRUCTURE.



Know what's below.  
Call before you dig.

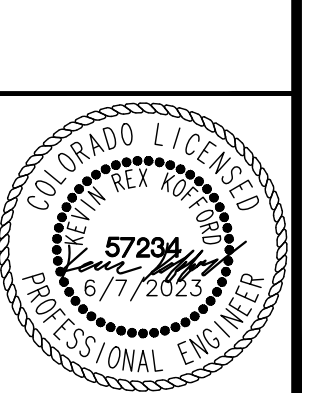


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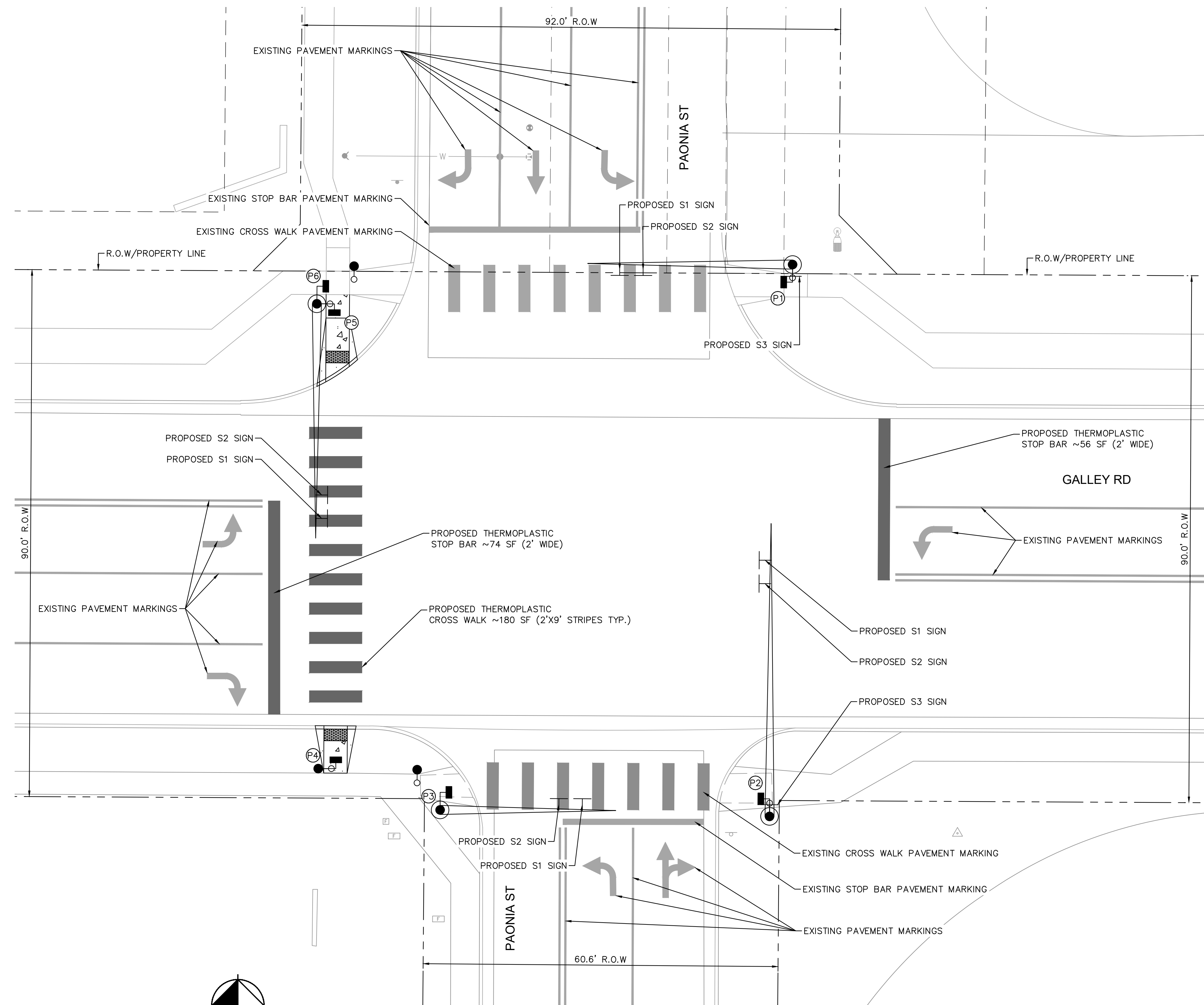
**SOLACE APARTMENTS FILING NO. 2**  
 CONSTRUCTION DOCUMENTS  
**GALLEY RD & PAONIA ST - TRAFFIC SIGNAL PLANS**  
 EXISTING CONDITIONS & DEMOLITION PLAN



PROJECT NO.  
096668009

SHEET  
6

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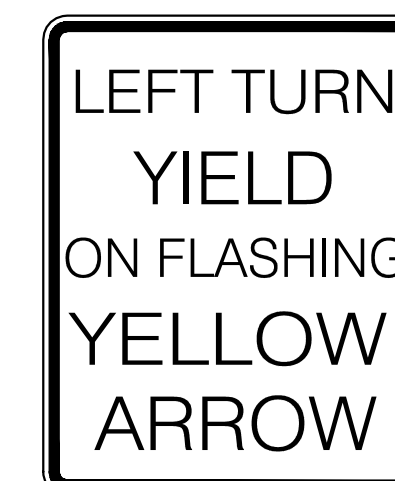
**PAVEMENT MARKING LEGEND**



**SIGNAGE LEGEND**



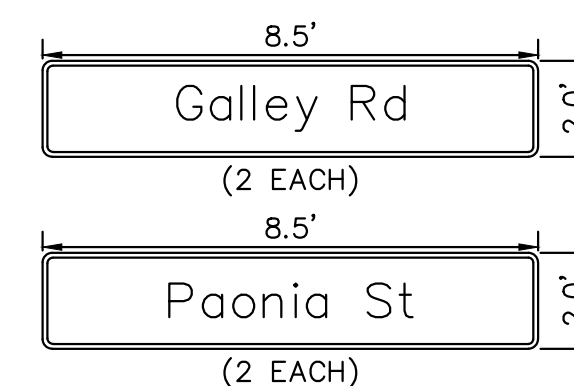
S1  
R3-5L  
(30"X36")



S2  
R10-27A  
(30"X36")



S3  
R9-3  
(24"X24")

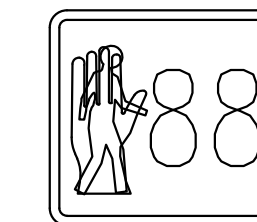


(STREET NAME SPECS PER EL PASO COUNTY)

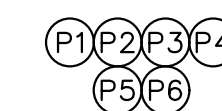
NOTE:

1. STREET NAME SIGNS TO BE PER EL PASO COUNTY STANDARD DETAIL. SEE SHEET 11.

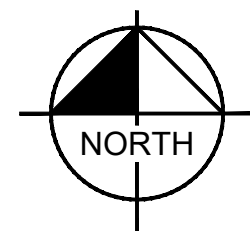
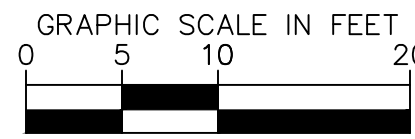
**PEDESTRIAN SIGNAL FACE**



PEDESTRIAN HEAD  
(COUNTDOWN)



Know what's below.  
Call before you dig.

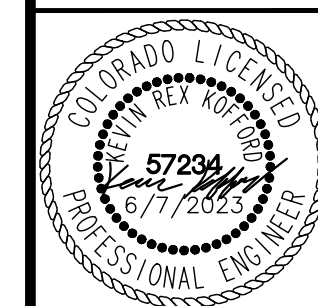


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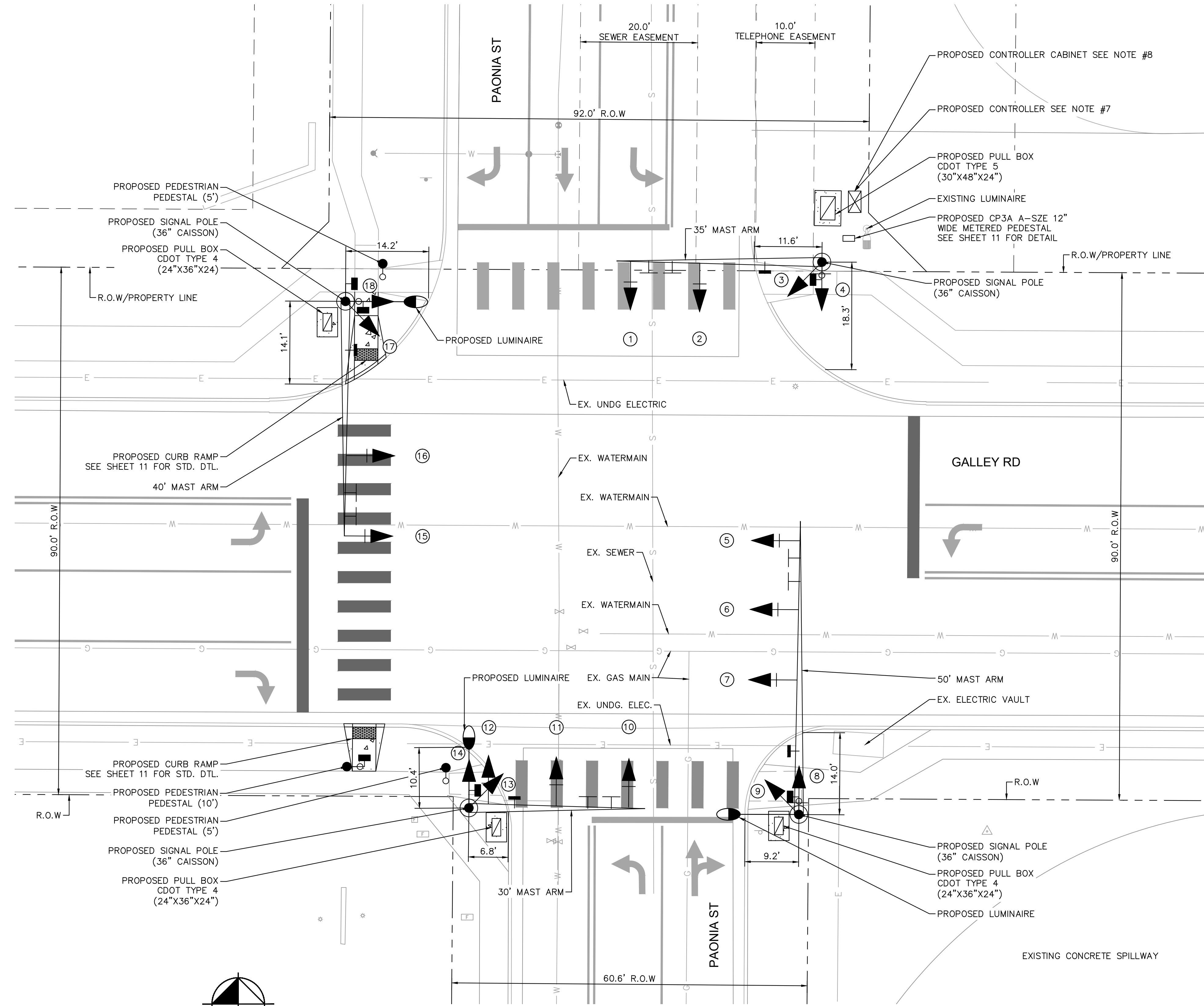
**SOLACE APARTMENTS FILING NO. 2**  
CONSTRUCTION DOCUMENTS  
GALLEY RD & PAONIA ST - TRAFFIC SIGNAL PLANS  
SIGNAGE AND STRIPING PLAN



PROJECT NO.  
096668009

SHEET  
7

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**NOTES:**

1. MAST ARMS, CAISSON DIAMETER, AND CAISSON DEPTHS WERE DETERMINED PER CDOT STANDARD DETAIL S-614-40A
2. PEDESTRIAN PUSH BUTTON ASSEMBLIES ARE TO BE CONSTRUCTED PER CDOT STANDARD S-614-09
3. ALL PEDESTALS AND PUSH BUTTONS SHALL BE LOCATED IN THE CLEAR SPACE PER S-614-45
4. PULL BOXES SHALL BE PLACED PER CDOT STANDARD DETAIL S-614-43
5. TOP OF CAISSON SHALL BE FLUSH WITH SIDEWALK IF DIRECTLY ADJACENT TO SIDEWALK OR A MINIMUM OF 2" ABOVE THE LANDSCAPING
6. SEE SHEET 10 FOR PUSH BUTTON PROXIMITY DETAIL
7. PROPOSED CONTROLLER TO BE A MCCAIN 2070 FLEX ATC CONTROLLER W/ RACK MOUNT, C1 CONNECTOR, AND OMNI SOFTWARE
8. PROPOSED CONTROLLER CABINET SHALL BE A MCCAIN 350i ATC W/ BATTERY BACKUP AND AUXILIARY RACK.

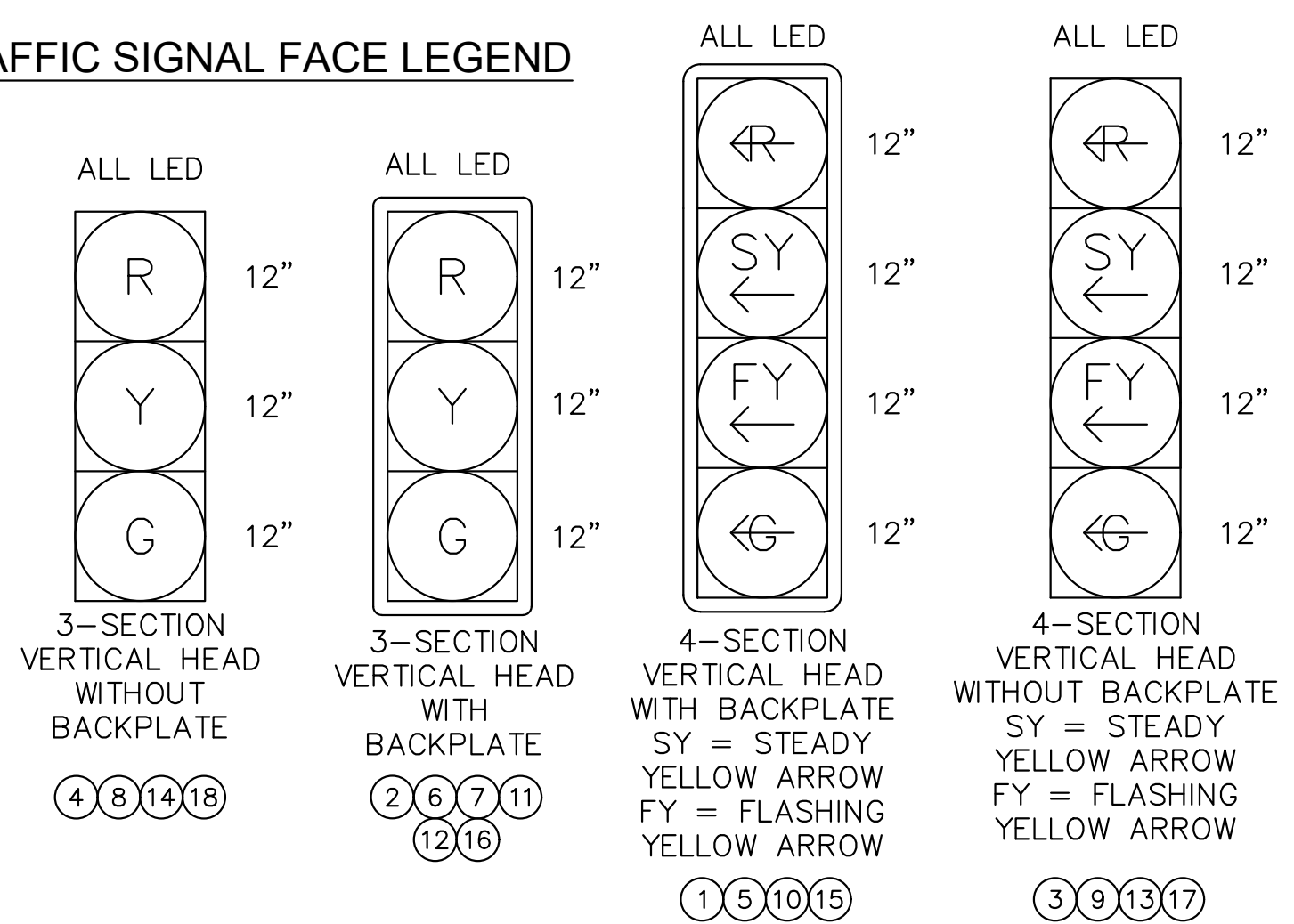
**TRAFFIC SIGNAL LEGEND**

- ☒ CONTROLLER
- ☑ PULL BOX (CDOT TYPE 4 & TYPE 5)
- ➔ SIGNAL HEAD (LED)
- POWER METER PEDESTAL
- ⌋ PEDESTRIAN HEAD WITH COUNTDOWN
- PEDESTRIAN PUSH BUTTON
- ⌋ MICROWAVE VEHICLE PRESENCE SENSOR
- ⌋ OVERHEAD MOUNTED SIGN
- ⦿ MAST ARM & SIGNAL POLE
- PEDESTAL/PUSHBUTTON POLE
- LUMINAIRE (LED)
- CONDUIT

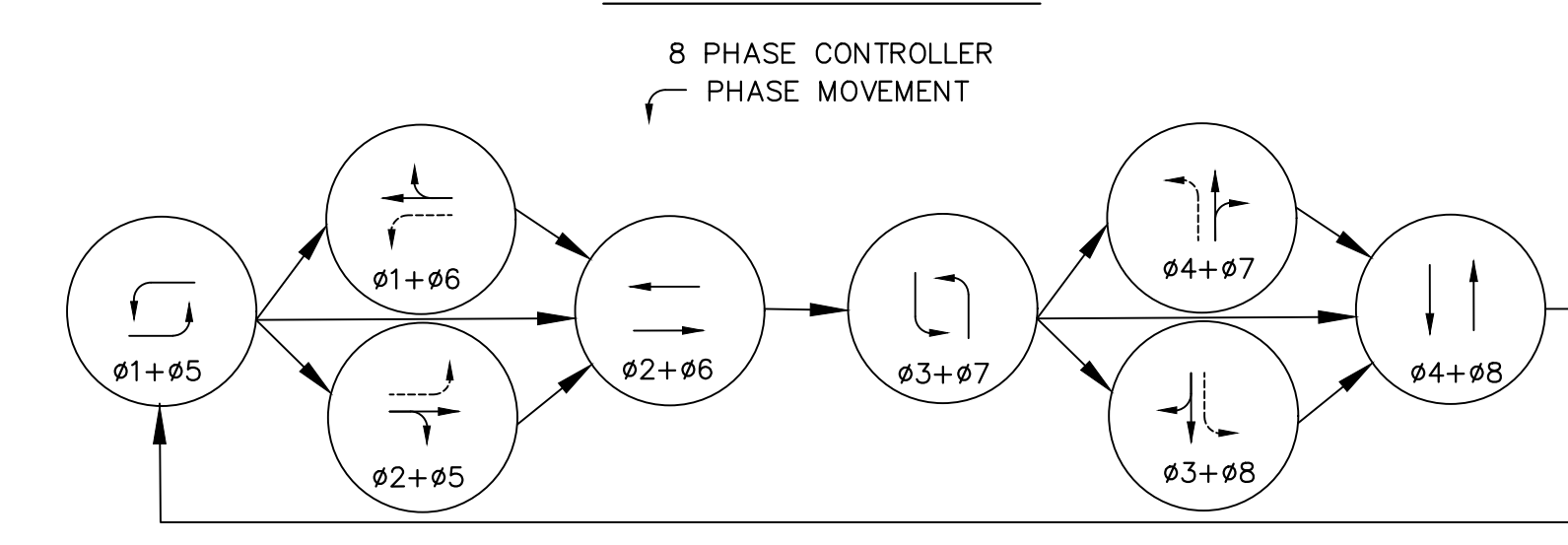
**UTILITY LEGEND**

- G — EXISTING UNDERGROUND NATURAL GAS
- E — EXISTING UNDERGROUND ELECTRIC
- S — EXISTING SANITARY SEWER
- W — EXISTING WATER MAIN

**TRAFFIC SIGNAL FACE LEGEND**



**PHASING DIAGRAM**

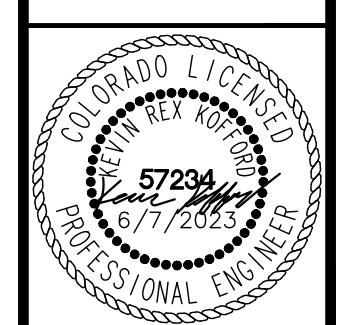


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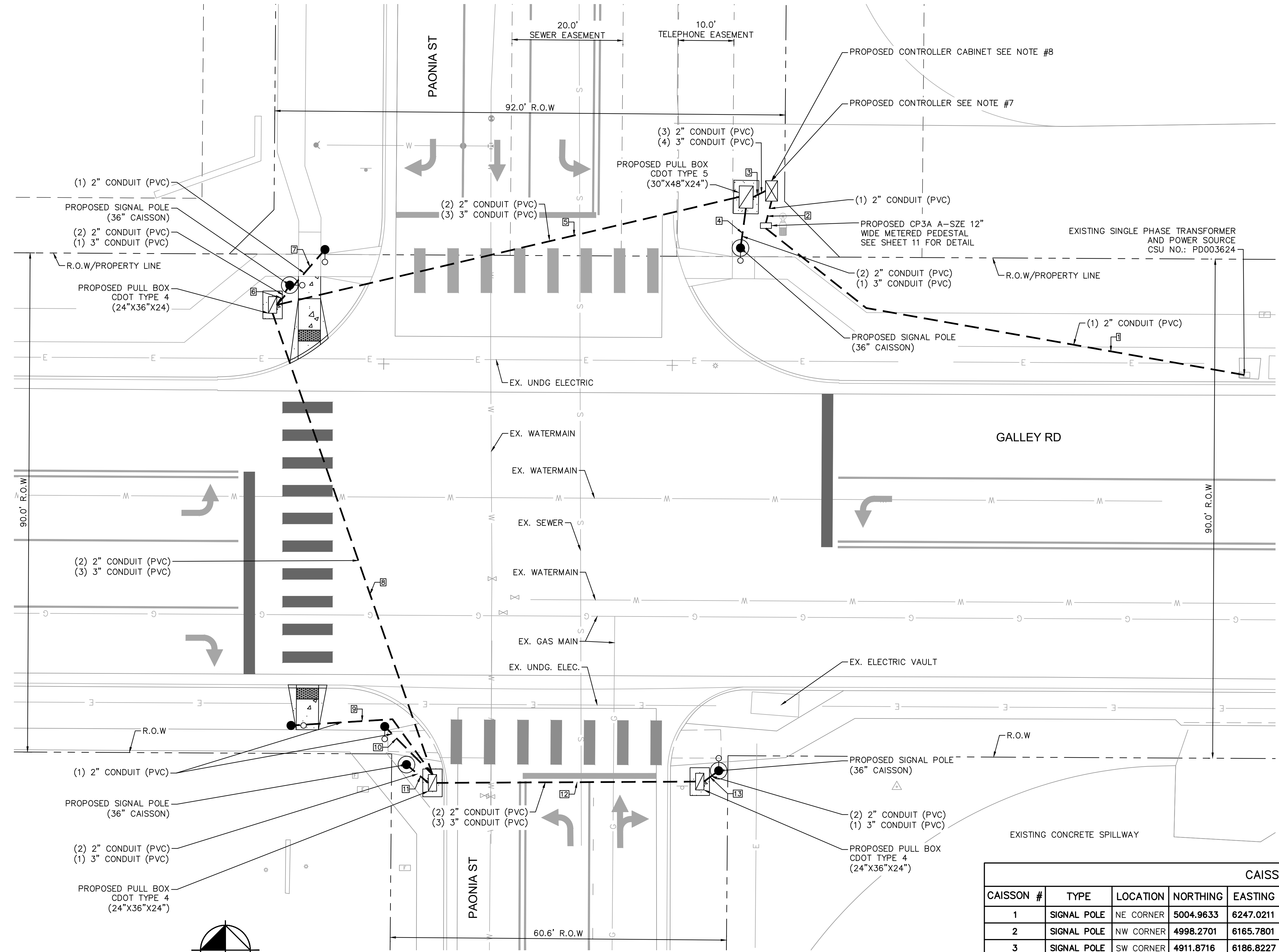
**SOLACE APARTMENTS FILING NO. 2**  
 CONSTRUCTION DOCUMENTS  
 GALLEY RD & PAONIA ST - TRAFFIC SIGNAL PLANS  
 SIGNAL PLAN



PROJECT NO.  
096668009  
 SHEET  
8



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**TRAFFIC SIGNAL LEGEND**

- ☒ CONTROLLER
- ☐ PULL BOX (24"x36"x18")
- ➔ SIGNAL HEAD (LED)
- ☐ POWER METER PEDESTAL
- ⌚ PEDESTRIAN HEAD
- ⌚ PEDESTRIAN PUSH BUTTON WITH COUNTDOWN
- ⌚ MICROWAVE VEHICLE PRESENCE SENSOR
- ⌚ OVERHEAD MOUNTED SIGN
- ☉ MAST ARM & SIGNAL POLE
- PEDESTAL/PUSHBUTTON POLE
- ☉ LUMINAIRE (LED)
- CONDUIT

**UTILITY LEGEND**

- G EXISTING UNDERGROUND NATURAL GAS
- E EXISTING UNDERGROUND ELECTRIC
- S EXISTING SANITARY SEWER
- W EXISTING WATER MAIN

**NOTES**

1. MAST ARMS, CAISSON DIAMETER, AND CAISSON DEPTHS WERE DETERMINED PER CDOT STANDARD DETAIL S-614-40A
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3. ALL PEDESTALS AND PUSH BUTTONS SHALL BE LOCATED IN THE CLEAR SPACE PER S-614-45
4. PULL BOXES SHALL BE PLACED PER CDOT STANDARD DETAIL S-614-43
5. TOP OF CAISSON SHALL BE FLUSH WITH SIDEWALK IF DIRECTLY ADJACENT TO SIDEWALK OR A MINIMUM OF 2" ABOVE THE LANDSCAPING
6. PROPOSED CONTROLLER TO BE A MCCAIN 2070 FLEX ATC CONTROLLER W/ RACK MOUNT, C1 CONNECTOR, AND OMNI SOFTWARE
7. PROPOSED CONTROLLER CABINET SHALL BE A MCCAIN 3501 ATC W/ BATTERY BACKUP AND AUXILIARY RACK.

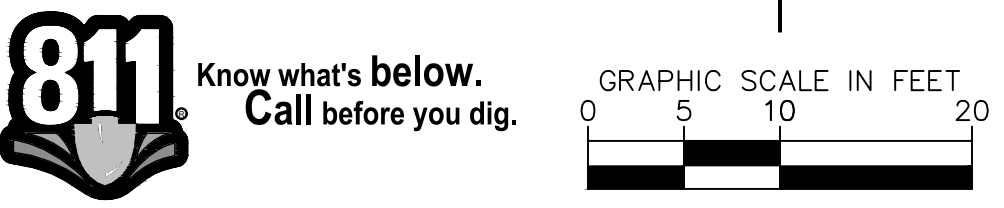
CONDUIT SCHEDULE			
LINE	LENGTH (FT)	CONDUIT	NOTES
1	93	(1) 2" CONDUIT	TRANSFORMER TO POWER METER
2	4	(1) 2" CONDUIT	POWER METER TO CONTROLLER
3	3	(3) 2" CONDUIT (4) 3" CONDUIT	CONTROLLER TO HR PULL BOX
4	7	(2) 2" CONDUIT (1) 3" CONDUIT	HR PULL BOX TO SIGNAL POLE
5	86	(2) 2" CONDUIT (3) 3" CONDUIT	DIRECTIONAL BORING
6	4	(2) 2" CONDUIT (1) 3" CONDUIT	PULL BOX TO SIGNAL POLE
7	13	(1) 2" CONDUIT	PULL BOX TO PEDESTAL
8	88	(2) 2" CONDUIT (3) 3" CONDUIT	DIRECTIONAL BORING
9	31	(1) 2" CONDUIT	PULL BOX TO PEDESTAL
10	12	(1) 2" CONDUIT	PULL BOX TO PEDESTAL
11	5	(2) 2" CONDUIT (1) 3" CONDUIT	PULL BOX TO SIGNAL POLE
12	47	(2) 2" CONDUIT (3) 3" CONDUIT	DIRECTIONAL BORING
13	3	(2) 2" CONDUIT (1) 3" CONDUIT	PULL BOX TO SIGNAL POLE

**CONDUIT SUMMARY**

2 INCH CONDUIT (TRENCHED) = 107 LF	2 INCH CONDUIT = 642 LF
2 INCH CONDUIT (BORED) = 442 LF	2 INCH CONDUIT (POWER FEED) = 93 LF
3 INCH CONDUIT (TRENCHED) = 31 LF	3 INCH CONDUIT = 694 LF
3 INCH CONDUIT (BORED) = 663 LF	

CAISSON SCHEDULE								
CAISSON #	TYPE	LOCATION	NORTHING	EASTING	CAISSON SIZE	CAISSON DEPTH	MAST ARM LENGTH	SURFACE ELEV.
1	SIGNAL POLE	NE CORNER	5004.9633	6247.0211	36"	18'-6"	35'	6248.14
2	SIGNAL POLE	NW CORNER	4998.2701	6165.7801	36"	18'-6"	40'	6248.43
3	SIGNAL POLE	SW CORNER	4911.8716	6186.8227	36"	18'-6"	30'	6248.01
4	SIGNAL POLE	SE CORNER	4910.7597	6243.0813	36"	18'-6"	50'	6248.00
5	5' PED POLE	NW CORNER	5004.6917	6172.1353	18"	4'-8"	N/A	6248.43
6	10' PED POLE	SW CORNER	4918.9204	6166.0133	18"	4'-8"	N/A	6248.03
7	5' PED POLE	SW CORNER	4918.7351	6182.9055	18"	4'-8"	N/A	6248.01

\* ELEVATIONS ARE PROVIDED FOR REFERENCE. CONTRACTOR TO VERIFY ELEVATIONS PRIOR TO CONSTRUCTION.



**811** Know what's below.  
Call before you dig.

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REVISION
BY
DATE
APPR

2023 KIMLEY-HORN AND ASSOCIATES, INC.  
2 North Nevada Avenue, Suite 900  
Colorado Springs, Colorado 80903 (719) 453-0180

DESIGNED BY: KRK
DRAWN BY: RES

CHECKED BY: EUG
DATE: 06/07/2023

SOLACE APARTMENTS FILING NO. 2
CONSTRUCTION DOCUMENTS

GALLEY RD & PAONIA ST - TRAFFIC SIGNAL PLANS
CONDUIT PLAN

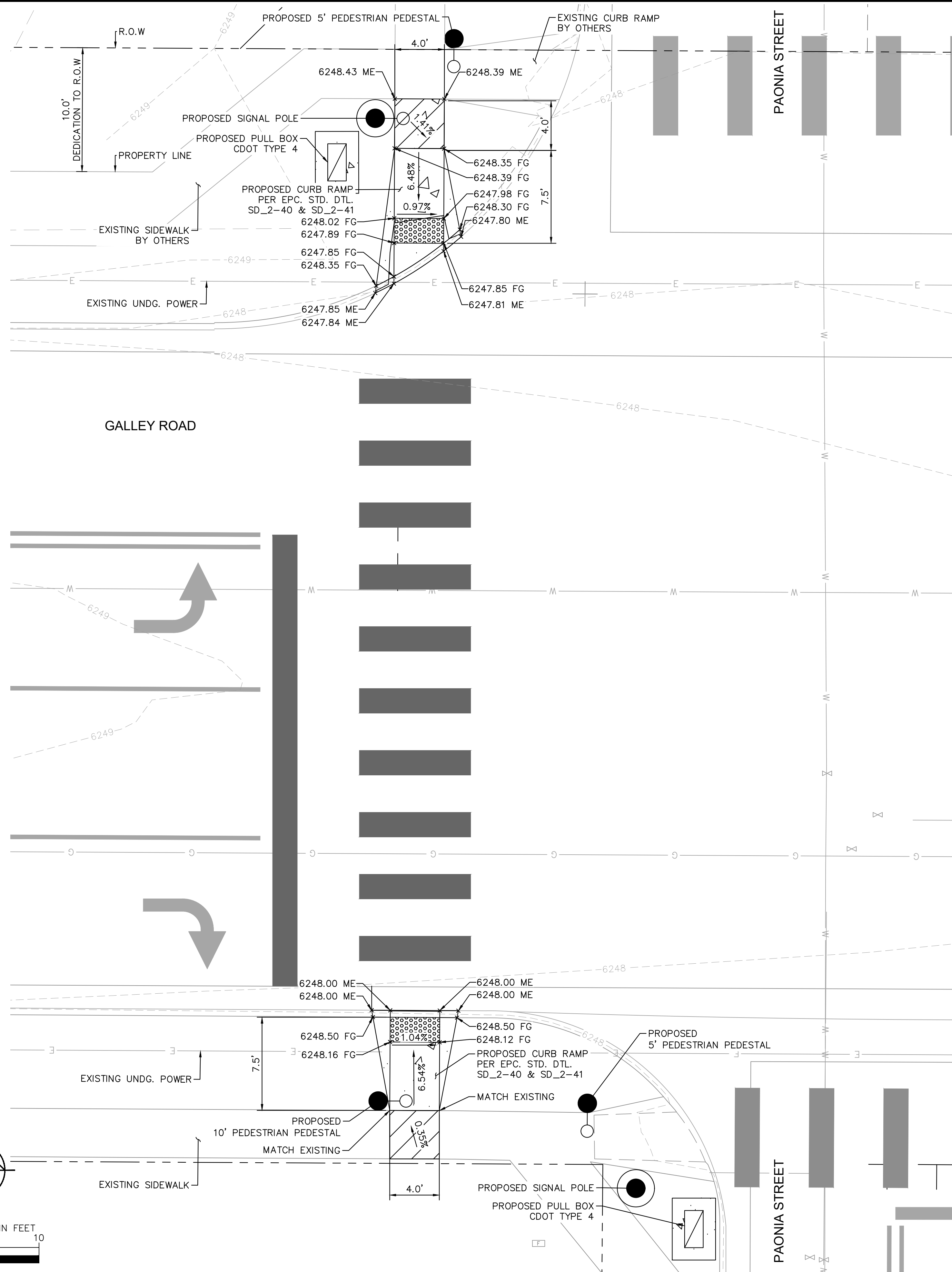
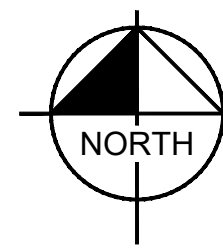
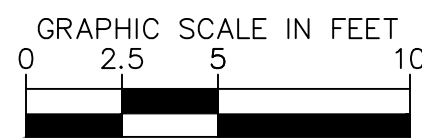
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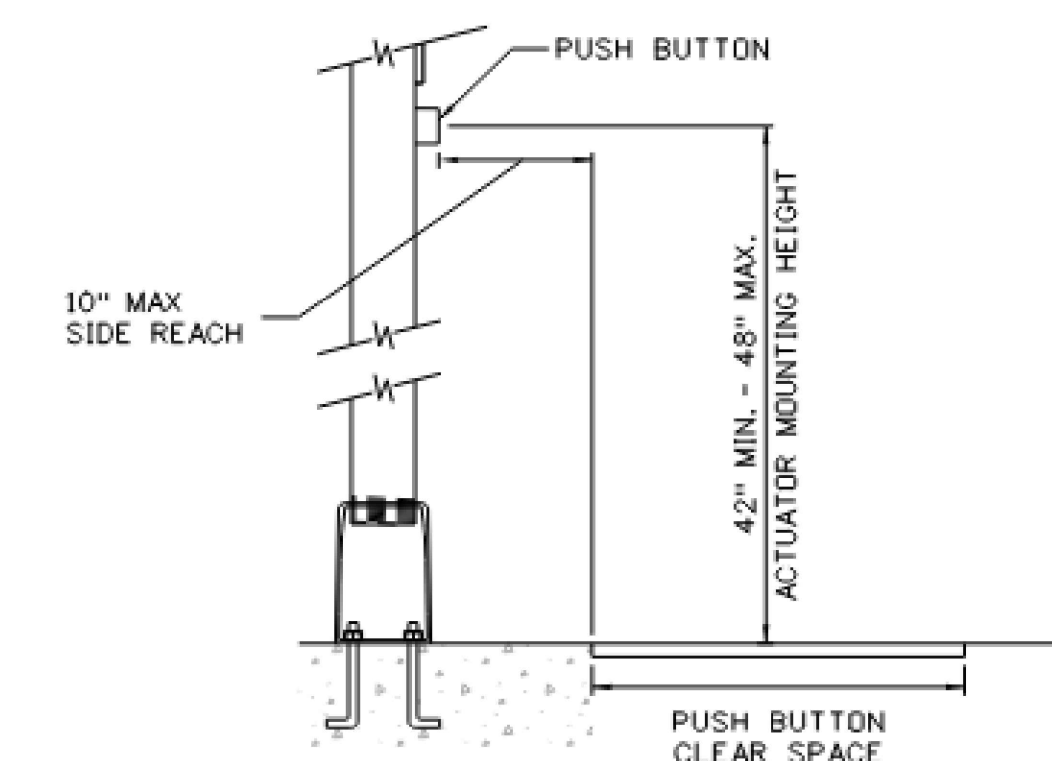
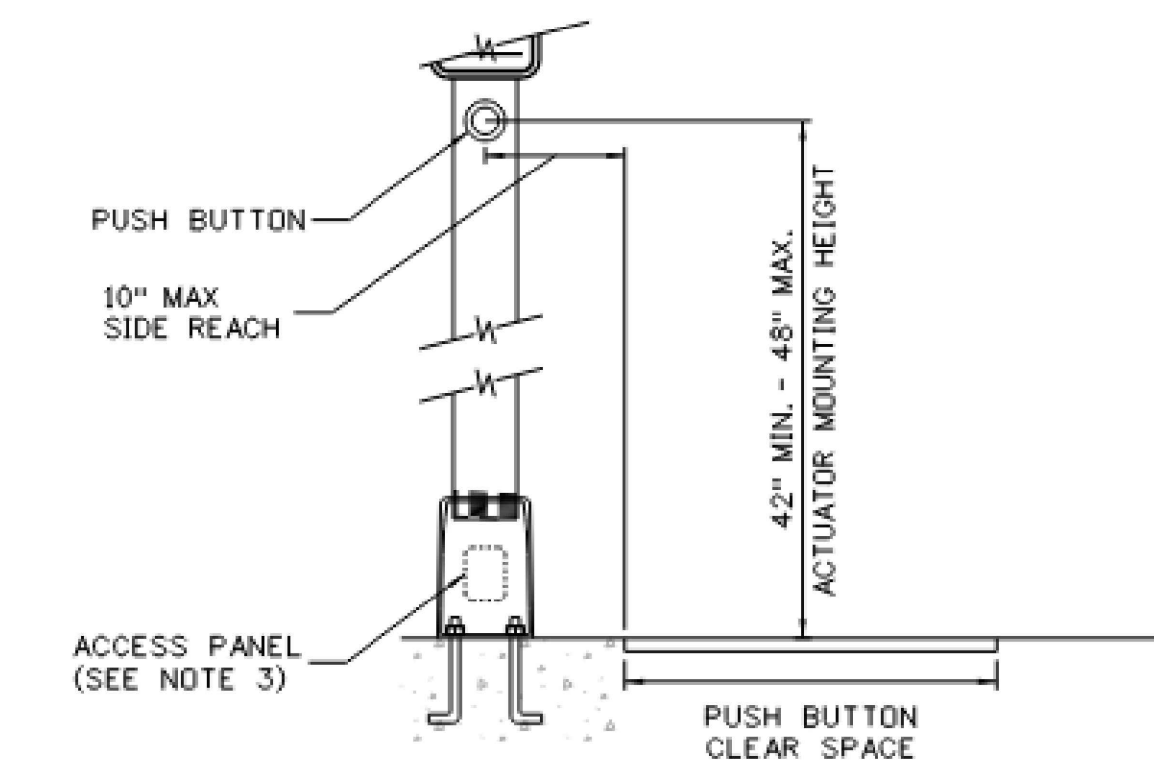


**LEGEND**

- EXISTING CONCRETE SIDEWALK
- PROPOSED CONCRETE CURB RAMP PER SD\_2-40 & SD\_2-41
- PROPOSED DETECTABLE WARNING SURFACE (DWS)
- 4' X 4' MIN TURNING SPACE  
2% MAX. SLOPE (IN ANY DIRECTION)

**GENERAL NOTES**

1. CONTROL JOINT SPACING SHALL BE 4' TYPICAL AND NO GREATER THAN 10 FT.
2. EXPANSION JOINT SPACING SHALL BE 20' TYPICAL.
3. ALL ACCESSIBLE AREAS SHALL COMPLY WITH ALL ADA REQUIREMENTS INCLUDING A LONGITUDINAL SLOPE OF 5.0% MAXIMUM AND A CROSS SLOPE OF 2% MAXIMUM.
4. CONTRACTOR TO CONFIRM EXISTING ELEVATIONS IN THE FIELD.
5. CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR AND OBTAINING THE STATE STORMWATER DISCHARGE PERMIT AT LEAST TEN (10) BUSINESS DAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.
6. CONTRACTOR TO VERIFY ALL ELEVATIONS IN THE FIELD.
7. CONTRACTOR TO MATCH ELEVATIONS AT EXISTING SIDEWALK TIE-IN LOCATIONS.



**PUSH BUTTON LOCATION DETAIL**  
PER CDOT STANDARD DETAIL S-614-45

NO.	REVISION	BY	DATE	APPR

**Kimley»Horn**  
2023 KIMLEY-HORN AND ASSOCIATES, INC.  
2 North Nevada Avenue, Suite 900  
Colorado Springs, Colorado 80903 (719) 453-0180

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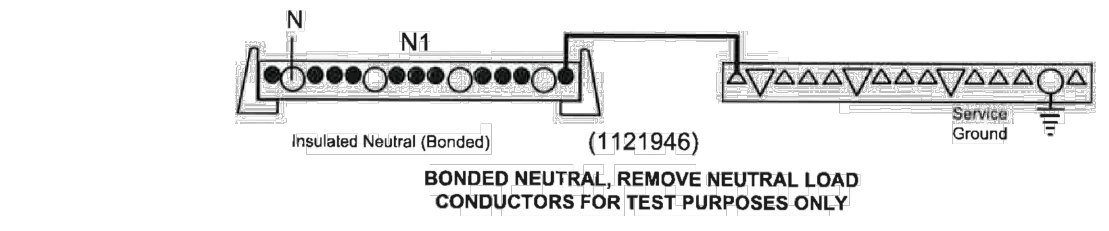
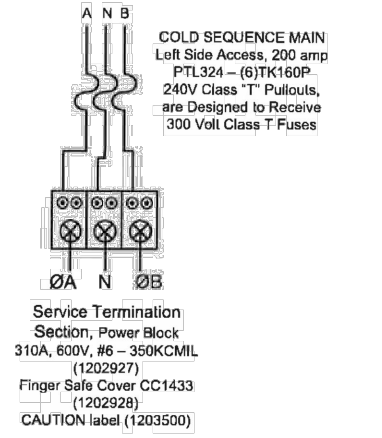
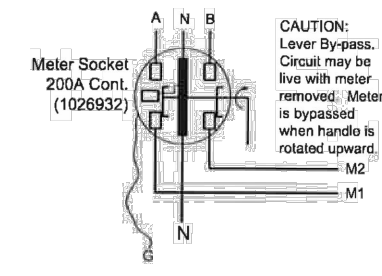
**SOLACE APARTMENTS FILING NO. 2**  
CONSTRUCTION DOCUMENTS  
GALLEY RD & PAONIA ST - TRAFFIC SIGNAL PLANS  
GRADING DETAIL



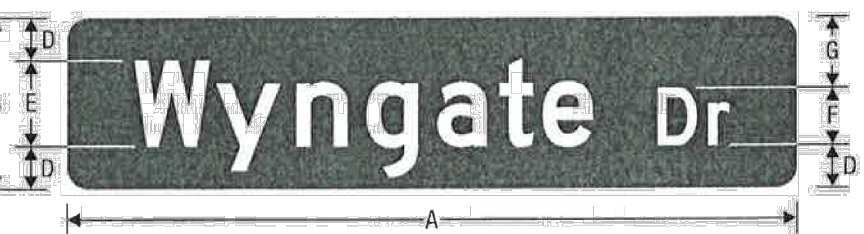
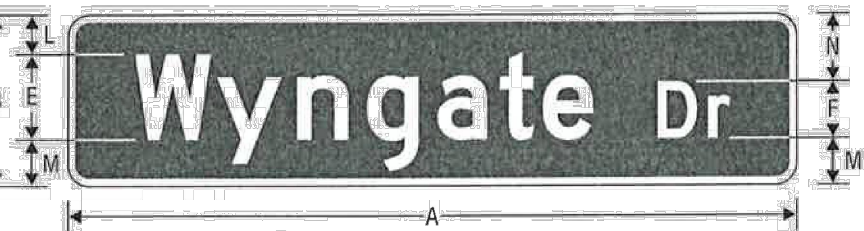
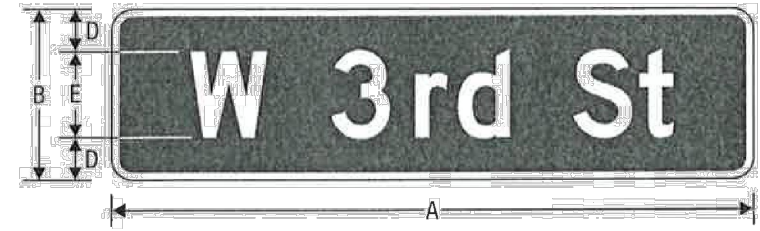
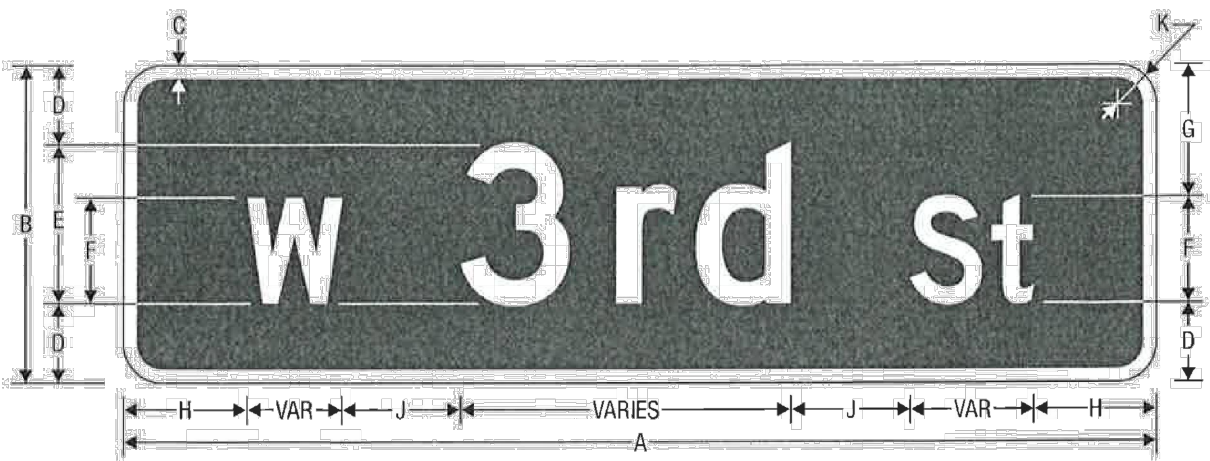
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Catalog Number: 120/240 VAC, 1-phase, 3-wire, 100 Amps Maximum, (see Main circuit breaker rating)  
**CP3A51C16AAPCSXCCOD1** Rainproof - Type 3R, Aluminum Enclosure, painted GRAY  
 Enclosed Industrial Control - Suitable ONLY for Use as Service Equipment  
 Dead Front - 1189639



Sheet 2 of 2



	A	B	C	D	E	F	G	H	J	K	L	M	N	O
VAR	8	0.375	2	4 D	3 D	3	3 (MIN)	3	1	1.75	2.25	2.75	1.5 D	
VAR	12	0.5	3	6 D	4 D	5	4.5 (MIN)	4.5	1.5	2.75	3.25	4.75	3 D	
VAR	18	0.75	5	8 D	5.33 D	7.67	5.33 (MIN)	6	1.875	5	5	7.67		
VAR	24	1	6	12 D	8 D	10	9 (MIN)	9	2.25	5.5	6.5	9.5		

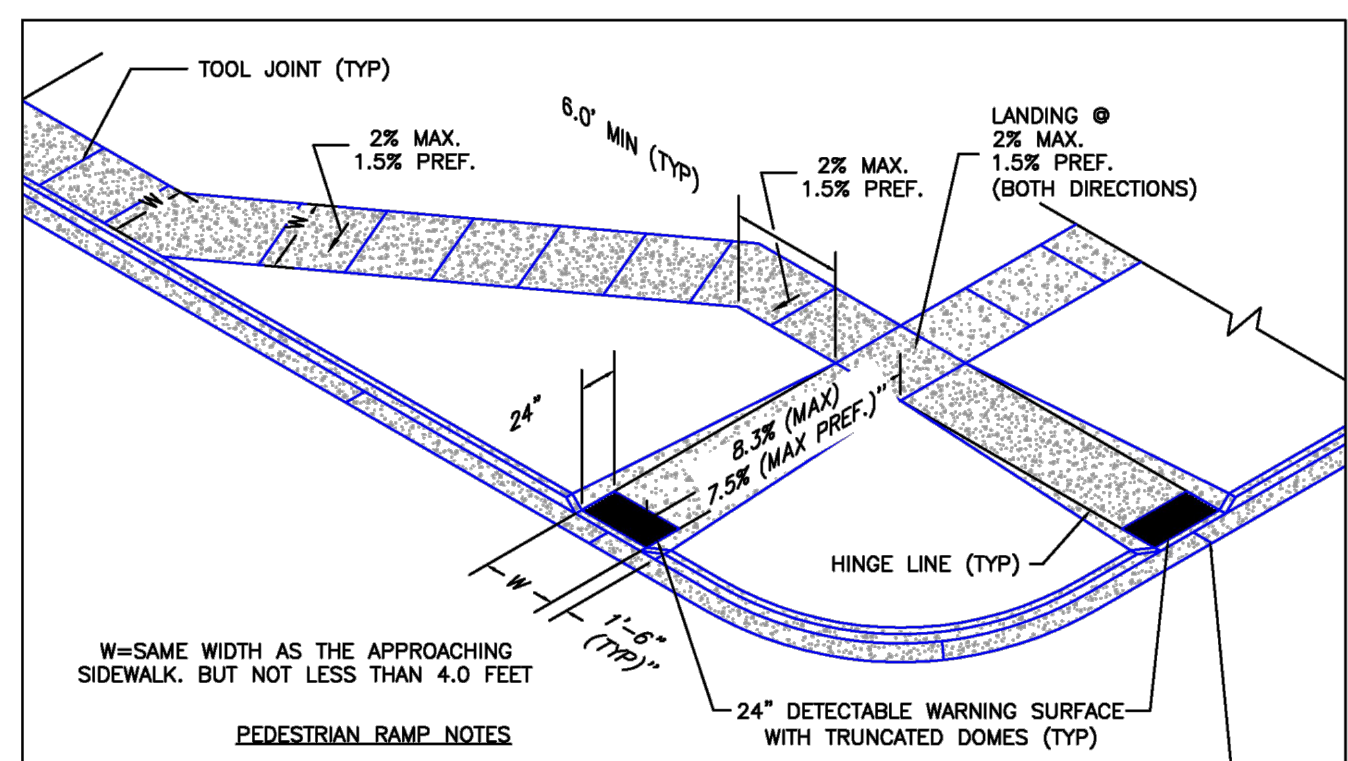
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Sheet 1 of 1  
 Issued 10/14/2017

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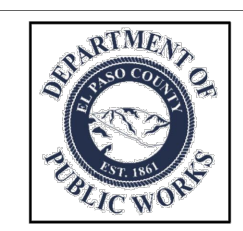
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- PEDESTRIAN RAMP NOTES**
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT ENGINEERING CRITERIA MANUAL AND ADA REQUIREMENTS.
  - CONTRACTOR TO NOTIFY ENGINEERING DIVISION INSPECTION STAFF 48 HOURS PRIOR TO CONCRETE PLACEMENT.
  - PEDESTRIAN CURB RAMP CONSTRUCTION SHALL BE A MINIMUM 4,000 PSI CONCRETE, MINIMUM 4" THICK, NON-COLORED, NON-SCORED, COARSE BROOM FINISH.
  - PEDESTRIAN CURB RAMP LOCATION AND LENGTH MAY REQUIRE MODIFICATION TO MAINTAIN THE 8.3% MAXIMUM RUNNING RAMP SLOPE DUE TO STREET INTERSECTION GRADINGS AND/OR ALIGNMENTS. SEE SCM SECTION 6.3.6 FOR PEDESTRIAN PUSHBUTTON LOCATION REQUIREMENTS.
  - DETECTABLE WARNING SURFACE SHALL START A MINIMUM OF 6" BUT NOT MORE THAN 8" FROM THE FLOWLINE OF THE CURB AT ANY POINT.
  - DETECTABLE WARNING SURFACE SHALL BE PREFABRICATED, CAST IRON (PRIMA NATURAL FINISH) AND IN ACCORDANCE WITH SCM CHAPTER 6 AND SD-2-42. THERMOPLASTIC TRUNCATED DOMES AND PAVERS WILL NOT BE ACCEPTED.
  - THE DETECTABLE WARNING SURFACE SHALL BE 24" IN LENGTH AND THE FULL WIDTH OF THE RAMP.
  - PEDESTRIAN CURB RAMP WIDTH REQUIRED IS SAME AS APPROACHING SIDEWALK, 4' MINIMUM.
  - ALL PEDESTRIAN CURB RAMP WILL BE PERPENDICULAR TO TRAFFIC WITH THE EXCEPTION OF MID-BLOCK OR TURNAROUND RAMP WHICH MAY BE PARALLEL SUBJECT TO APPROVAL.
  - DRAINAGE STRUCTURES, TRAFFIC SIGNAL/SIGNAL, UTILITIES/JUNCTION BOXES, OR OTHER OBSTRUCTIONS WITHIN PROPOSED PEDESTRIAN CURB RAMP AREAS AND LANDINGS ARE PROHIBITED.
  - THE COUNTER SLOPE OF THE GUTTER OR ROAD AT THE FOOT OF A RAMP SHALL NOT EXCEED SIX.
- GENERAL NOTES**
- WHERE THE 1"-8" FLARED SIDING OF A PERPENDICULAR CURB RAMP IS (AND) CONTIGUOUS WITH A PEDESTRIAN OR HARD SURFACE AREA (PEDESTRIAN CIRCULATION PATH), THE MAXIMUM FLARE SLOPE SHALL NOT EXCEED 10:1.
  - PEDESTRIAN WALKWAY (PEDESTRIAN ACCESS ROUTE) AND/OR LOCATION OF EXISTING OR FUTURE PEDESTRIAN RAMP ON OPPOSITE CORNERS SHALL BE REVIEWED BEFORE CONSTRUCTING NEW RAMP.
  - AT MARKED PEDESTRIAN CROSSINGS, THE BOTTOM OF THE RAMP, OCCURRENCE OF THE FLARE SIDING, SHALL BE TOTALLY CONTAINED WITHIN THE MARKINGS.

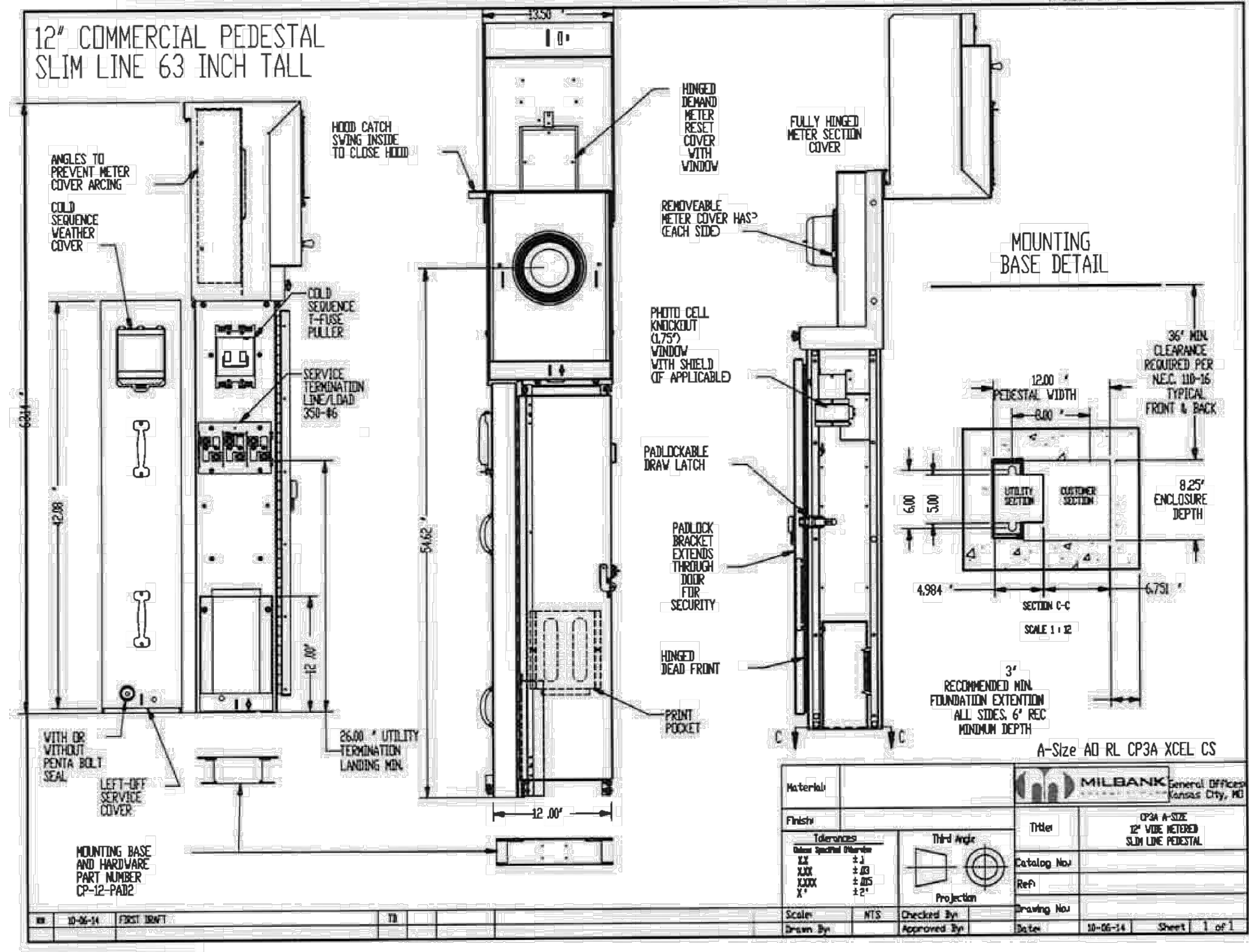
6/23/20  
 DATE APPROVED: Jennifer E. Irvine  
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Pedestrian Curb Ramp Detail  
 Standard Drawing  
 REVISION DATE: 6/23/20  
 FILE NAME: SD\_2-41



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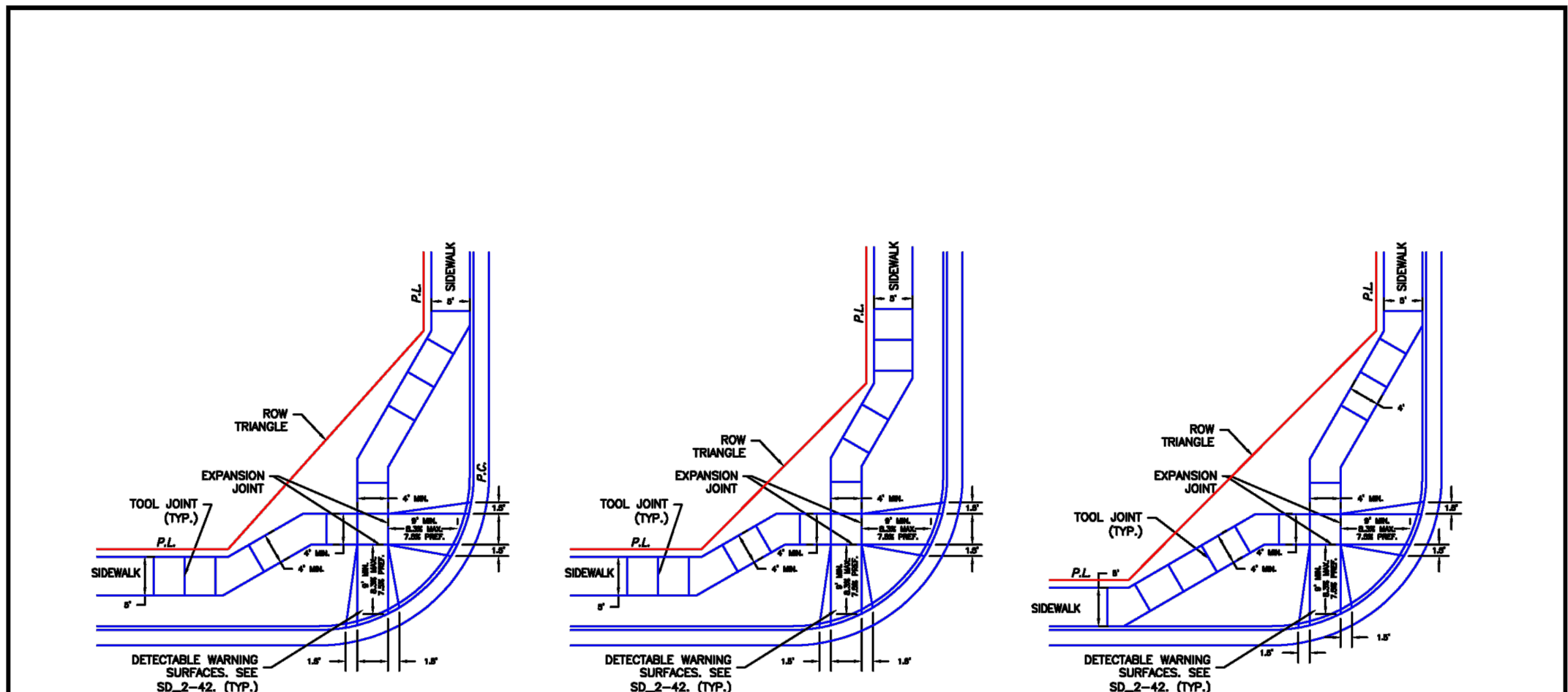
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Material	Quantity	Notes
FRONT	1	
BACK	1	
SIDE	1	
TOP	1	
BOTTOM	1	

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6/23/20  
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Pedestrian Curb Ramp Detail  
 Standard Drawing  
 REVISION DATE: 6/23/20  
 FILE NAME: SD\_2-40

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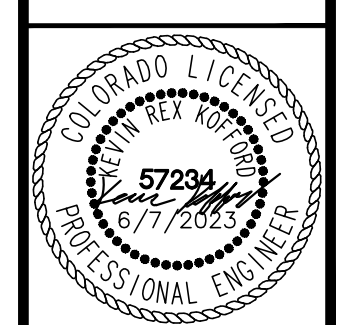
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 CONSTRUCTION DOCUMENTS  
 GALLEY RD & PAONIA ST - TRAFFIC SIGNAL PLANS  
 DETAILS



PROJECT NO. 096668009  
 SHEET