

# 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-XXX ← CDR2311

SHEET INDEX	
SHEET TITLE	SHEET NO.
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VICINITY MAP  
1" = 500'

#### CONTACTS

**OWNER:**  
CS POWERS & GALLEY LLC  
510 S NEIL ST  
CHAMPAIGN, IL 61820  
PHONE: (719) 216-2577  
CONTACT: DANE OLMSTEAD

**SURVEYOR:**  
JR ENGINEERING, LLC  
5475 TECH CENTER DRIVE STE 235  
COLORADO SPRINGS, CO 80919  
TEL: 719-593-2593  
CONTACT: DANIEL CLARK, P.E.

**CIVIL ENGINEER:**  
KIMLEY-HORN AND ASSOCIATES  
2 N. NEVADA AVENUE SUITE 300  
COLORADO SPRINGS, CO 80903  
CONTACT: KEVIN KOFFORD  
PHONE: (719) 453-0181

**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, PE - KIMLEY-HORN AND ASSOCIATES, INC. \_\_\_\_\_ DATE \_\_\_\_\_

#### 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: EJJ  
DATE: 04/17/2023

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

PRELIMINARY  
FOR REVIEW ONLY  
NOT FOR  
CONSTRUCTION  
**Kimley»Horn**  
Kimley-Horn and Associates, Inc.

PROJECT NO.  
096668009

SHEET

1



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PLAN NUMBER	M STANDARD TITLE	PAGE NUMBER	PLAN NUMBER	M STANDARD TITLE	PAGE NUMBER	PLAN NUMBER	S STANDARD TITLE	PAGE NUMBER
<input type="checkbox"/> M-100-1	STANDARD SYMBOLS (3 SHEETS)	1-3	<input type="checkbox"/> M-606-1	MIDWEST GUARDRAIL SYSTEM TYPE 3 W-BEAM 31 INCHES (19 SHEETS) <i>(REVISED ON MARCH 5, 2020)</i>	79-97	<input type="checkbox"/> S-612-1	DELINEATOR INSTALLATIONS (8 SHEETS) <i>(REVISED ON JANUARY 19, 2023)</i>	171-178
<input type="checkbox"/> M-100-2	ACRONYMS AND ABBREVIATIONS (4 SHEETS)	4-7	<input type="checkbox"/> M-606-13	GUARDRAIL TYPE 7 F-SHAPE BARRIER (4 SHEETS)	98-101	<input type="checkbox"/> S-613-1	ROADWAY LIGHTING (6 SHEETS) <i>(REVISED ON SEPTEMBER 30, 2020)</i>	179-186
<input type="checkbox"/> M-203-1	APPROACH ROADS	8	<input type="checkbox"/> M-606-14	PRECAST TYPE 7 CONCRETE BARRIER (4 SHEETS) <i>(REVISED ON FEBRUARY 9, 2023)</i>	102-104	<input type="checkbox"/> S-613-2	ALTERNATIVE ROADWAY LIGHTING (4 SHEETS) <i>(NEW, ISSUED ON SEPTEMBER 30, 2020)</i>	
<input type="checkbox"/> M-203-2	DITCH TYPES	9	<input type="checkbox"/> M-606-15	GUARDRAIL TYPE 9 SINGLE SLOPE BARRIER (11 SHEETS) <i>(REVISED ON FEBRUARY 17, 2023)</i>	105-115	<input type="checkbox"/> S-614-1	GROUND SIGN PLACEMENT (2 SHEETS)	187-188
<input type="checkbox"/> M-203-11	SUPERELEVATION CROWNED AND DIVIDED HIGHWAYS (3 SHEETS)	10-12	<input type="checkbox"/> M-607-1	WIRE FENCES AND GATES (3 SHEETS)	116-118	<input checked="" type="checkbox"/> S-614-2	CLASS I SIGNS	189
<input type="checkbox"/> M-203-12	SUPERELEVATION STREETS (2 SHEETS)	13-14	<input type="checkbox"/> M-607-2	CHAIN LINK FENCE (3 SHEETS)	119-121	<input type="checkbox"/> S-614-3	CLASS II SIGNS	190
<input type="checkbox"/> M-206-1	EXCAVATION AND BACKFILL FOR STRUCTURES (2 SHEETS)	15-16	<input type="checkbox"/> M-607-3	BARRIER FENCE	122	<input type="checkbox"/> S-614-4	CLASS III SIGNS (3 SHEETS)	191-193
<input type="checkbox"/> M-206-2	EXCAVATION AND BACKFILL FOR BRIDGES (2 SHEETS)	17-18	<input type="checkbox"/> M-607-4	DEER FENCE, GATES, AND GAME RAMPS (7 SHEETS) <i>(REVISED ON JULY 13, 2020)</i>	123-127	<input type="checkbox"/> S-614-5	BREAK-AWAY SIGN SUPPORT DETAILS FOR CLASS III SIGNS (2 SHEETS)	194-195
<input type="checkbox"/> M-208-1	TEMPORARY EROSION CONTROL (11 SHEETS)	19-29	<input type="checkbox"/> M-607-10	PICKET SNOW FENCE	128	<input type="checkbox"/> S-614-6	CONCRETE FOOTINGS AND SIGN ISLANDS FOR CLASS III SIGNS (2 SHEETS)	196-197
<input type="checkbox"/> M-210-1	MAILBOX SUPPORTS (2 SHEETS)	30-31	<input type="checkbox"/> M-607-15	ROAD CLOSURE GATE (9 SHEETS)	129-137	<input type="checkbox"/> S-614-8	TUBULAR STEEL SIGN SUPPORT DETAILS (7 SHEETS) <i>(REVISED ON DECEMBER 29, 2020)</i>	198-204
<input type="checkbox"/> M-214-1	NURSERY STOCK DETAILS	32	<input type="checkbox"/> M-608-1	CURB RAMPS (10 SHEETS)	138-147	<del>S-614-9</del>	<del>PEDESTRIAN PUSH BUTTON POST ASSEMBLY (2 SHEETS) <i>(SUPERSEDED ON JANUARY 23, 2020 BY S-614-45)</i></del>	<del>205-206</del>
<input type="checkbox"/> M-216-1	SOIL RETENTION COVERING (2 SHEETS)	33-34	<input type="checkbox"/> M-609-1	CURBS, GUTTERS, AND SIDEWALKS (4 SHEETS)	148-151	<input type="checkbox"/> S-614-10	MARKER ASSEMBLY INSTALLATIONS	207
<input type="checkbox"/> M-412-1	CONCRETE PAVEMENT JOINTS (9 SHEETS) <i>(REVISED ON JANUARY 31, 2022)</i>	35-39	<input type="checkbox"/> M-611-1	CATTLE GUARD (2 SHEETS)	152-153	<input type="checkbox"/> S-614-11	MILEPOST SIGN DETAIL FOR HIGH SNOW AREAS	208
<input type="checkbox"/> M-412-2	CONCRETE PAVEMENT CRACK REPAIR (6 SHEETS) <i>(REVISED ON SEPTEMBER 6, 2022)</i>		<input type="checkbox"/> M-611-2	DEER GUARD (2 SHEETS)	154-155	<input type="checkbox"/> S-614-12	STRUCTURE NUMBER INSTALLATION (2 SHEETS)	209-210
<input type="checkbox"/> M-510-1	STRUCTURAL PLATE PIPE H-20 LOADING	40	<input type="checkbox"/> M-614-1	RUMBLE STRIPS (3 SHEETS)	156-158	<input type="checkbox"/> S-614-14	FLASHING BEACON AND SIGN INSTALLATIONS (4 SHEETS)	211-214
<input type="checkbox"/> M-601-1	SINGLE CONCRETE BOX CULVERT (CAST-IN-PLACE) (2 SHEETS)	41-42	<input type="checkbox"/> M-614-2	SAND BARREL ARRAYS (2 SHEETS)	159-160	<input type="checkbox"/> S-614-20	TYPICAL POLE MOUNT SIGN INSTALLATIONS	215
<input type="checkbox"/> M-601-2	DOUBLE CONCRETE BOX CULVERT (CAST-IN-PLACE) (2 SHEETS)	43-44	<input type="checkbox"/> M-615-1	EMBANKMENT PROTECTOR TYPE 3	161	<input type="checkbox"/> S-614-21	CONCRETE BARRIER SIGN POST INSTALLATIONS (2 SHEETS) <i>(REVISED ON SEPTEMBER 21, 2020)</i>	216-217
<input type="checkbox"/> M-601-3	TRIPLE CONCRETE BOX CULVERT (CAST-IN-PLACE) (2 SHEETS)	45-46	<input type="checkbox"/> M-615-2	EMBANKMENT PROTECTOR TYPE 5	162	<input type="checkbox"/> S-614-22	TYPICAL MULTI-SIGN INSTALLATIONS	218
<input type="checkbox"/> M-601-10	HEADWALL FOR PIPES	47	<input type="checkbox"/> M-616-1	INVERTED SIPHON	163	<input type="checkbox"/> S-614-40	TYPICAL TRAFFIC SIGNAL 30'-75' DOUBLE MAST ARMS 65'-75' SINGLE MAST ARMS (5 SHEETS) <i>(REVISED ON JULY 22, 2022)</i>	219-223
<input type="checkbox"/> M-601-11	TYPE "S" SADDLE HEADWALLS FOR PIPE	48	<input type="checkbox"/> M-620-1	FIELD LABORATORY CLASS 1	164	<input checked="" type="checkbox"/> S-614-40A	ALTERNATIVE TRAFFIC SIGNAL 25'-55' SINGLE MAST ARMS (4 SHEETS) <i>(REVISED ON JULY 22, 2022)</i>	224-227
<input type="checkbox"/> M-601-12	HEADWALLS AND PIPE OUTLET PAVING	49	<input type="checkbox"/> M-620-2	FIELD LABORATORY CLASS 2 (2 SHEETS)	165-166	<input type="checkbox"/> S-614-41	TEMPORARY SPAN WIRE SIGNALS (13 SHEETS)	228-240
<input type="checkbox"/> M-601-20	WINGWALLS FOR PIPE OR BOX CULVERTS (2 SHEETS)	50-51	<input type="checkbox"/> M-620-11	FIELD OFFICE CLASS 1	167	<input checked="" type="checkbox"/> S-614-42	CABINET FOUNDATION DETAIL (4 SHEETS)	241-244
<input type="checkbox"/> M-603-1	METAL PIPE (4 SHEETS)	52-55	<input type="checkbox"/> M-620-12	FIELD OFFICE CLASS 2	168	<input checked="" type="checkbox"/> S-614-43	TRAFFIC LOOP AND MISCELLANEOUS SIGNAL DETAILS (8 SHEETS)	245-252
<input type="checkbox"/> M-603-2	REINFORCED CONCRETE PIPE	56	<input type="checkbox"/> M-629-1	SURVEY MONUMENTS (2 SHEETS)	169-170	<input checked="" type="checkbox"/> S-614-44	PEDESTAL POLE SIGNALS (2 SHEETS)	253-254
<input type="checkbox"/> M-603-3	PRECAST CONCRETE BOX CULVERT <i>(REVISED ON SEPTEMBER 10, 2020)</i>	57				<input checked="" type="checkbox"/> S-614-45	PEDESTRIAN PUSH BUTTON POST ASSEMBLY DETAILS (6 SHEETS) <i>(REVISED ON DECEMBER 3, 2020)</i>	255-266
<input type="checkbox"/> M-603-4	CORRUGATED POLYETHYLENE PIPE (AASHTO M294) AND CORRUGATED POLYPROPYLENE PIPE (AASHTO M330) (2 sheets) <i>(REVISED ON MARCH 7, 2022)</i>	58				<input type="checkbox"/> S-614-50	STATIC SIGN MONOTUBE STRUCTURES (12 SHEETS)	267-280
<input type="checkbox"/> M-603-5	POLYVINYL CHLORIDE (PVC) PIPE (AASHTO M304)	59				<input type="checkbox"/> S-627-1	PAVEMENT MARKINGS (9 SHEETS) <i>(REVISED ON JULY 22, 2022)</i>	281-289
<input type="checkbox"/> M-603-6	STEEL REINFORCED POLYETHYLENE RIBBED PIPE (AASHTO MP 20)	60				<input type="checkbox"/> S-630-1	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION (26 SHEETS) <i>(REVISED ON JANUARY 20, 2023)</i>	290-313
<input type="checkbox"/> M-603-10	CONCRETE AND METAL END SECTIONS	61				<input type="checkbox"/> S-630-2	BARRICADES, DRUMS, CONCRETE BARRIERS (TEMP.) AND VERTICAL PANELS	314
<input type="checkbox"/> M-603-12	TRAVERSABLE END SECTIONS AND SAFETY GRATES (3 SHEETS)	62-64				<input type="checkbox"/> S-630-3	FLASHING BEACON (PORTABLE) DETAILS	315
<input type="checkbox"/> M-604-10	INLET, TYPE C	65				<input type="checkbox"/> S-630-4	STEEL SIGN SUPPORT (TEMPORARY) INSTALLATION DETAILS (2 SHEETS)	316-317
<input type="checkbox"/> M-604-11	INLET, TYPE D	66				<input type="checkbox"/> S-630-5	PORTABLE RUMBLE STRIPS (TEMPORARY) (2 SHEETS)	318-319
<input type="checkbox"/> M-604-12	CURB INLET TYPE R (2 SHEETS)	67-68				<input type="checkbox"/> S-630-6	EMERGENCY PULL-OFF AREA (TEMPORARY)	320
<input type="checkbox"/> M-604-13	CONCRETE INLET TYPE 13	69				<input type="checkbox"/> S-630-7	ROLLING ROADBLOCKS FOR TRAFFIC CONTROL (3 SHEETS)	321-323
<input type="checkbox"/> M-604-20	MANHOLES (3 SHEETS)	70-72						
<input type="checkbox"/> M-604-25	VANE GRATE INLET (5 SHEETS) <i>(REVISED ON FEBRUARY 3, 2023)</i>	73-77						
<input type="checkbox"/> M-605-1	SUBSURFACE DRAINS	78						

**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		Sheet Revisions		Colorado Department of Transportation 2829 West Howard Place CDOT HQ, 3rd Floor Denver, CO 80204 Phone: 303-757-9021 FAX: 303-757-9868	<h1>STANDARD PLANS LIST</h1>	STANDARD PLAN NO.	
Creation Date: 07/31/19		Date:	Comments			STANDARDS PLANS LIST	
Designer Initials: JBK						Standard Sheet No. 1 of 1	
Last Modification Date: 02/17/23						Project Sheet Number:	
Detailer Initials: LTA							
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English							



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: 04/17/2023

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

**PRELIMINARY**  
 FOR REVIEW ONLY  
 NOT FOR  
 CONSTRUCTION  
  
 Kimley-Horn and Associates, Inc.

PROJECT NO.  
 096668009  
 SHEET  
 2



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CDOT CONTRACT ITEM NO.	CONTRACT ITEM	UNIT											PROJECT TOTALS		NOTES	
			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	83											83		
613-00206	2 INCH ELECTRICAL CONDUIT (BORED)	LF	442											442		
613-00300	3 INCH ELECTRICAL CONDUIT	LF	50											50		
613-00306	3 INCH ELECTRICAL CONDUIT (BORED)	LF	442											442		
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		
614-00011	SIGN PANEL (CLASS I)	SF	68											68		
614-00037	SIGN PANEL (SPECIAL)	EA	4											4		OVERHEAD STREET NAME SIGN
614-70150	PEDESTRIAN SIGNAL FACE (16) (COUNTDOWN)	EA	6											6		
614-70336	TRAFFIC SIGNAL FACE (12-12-12)	EA	9											9		
614-70448	TRAFFIC SIGNAL FACE (12-12-12-12 ARROW)	EA	8											8		
614-72836	CONFLICT MONITOR	EA	1											1		MODEL 2010 ECLIP W/ ETHERNET PORT (EDI)
*614-72855	TRAFFIC SIGNAL CONTROLLER CABINET	EA	1											1		332D CABINET
614-72860	PEDESTRIAN PUSH BUTTON	EA	6											6		WITH INSTRUCTION SIGN
614-72895	VEHICLE DETECTION SYSTEM (SINGLE CAMERA)	EA	4											4		
614-81130	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-30 FOOT MAST ARM)	EA	1											1		
614-81135	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-35 FOOT MAST ARM)	EA	1											1		
614-81140	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-40 FOOT MAST ARM)	EA	1											1		
614-81150	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-50 FOOT MAST ARM)	EA	1											1		
614-84100	TRAFFIC SIGNAL PEDESTAL POLE ALUMINUM	EA	3											3		5' PED POLE x2 ; 10' PED POLE x1
614-86238	TRAFFIC SIGNAL CONTROLLER (SOLID STATE)(FULL ACTUATED)(8 PHASE)	EA	1											1		MCCAIN 2070 FLEX ATC
623-04002	POWER SOURCE WIRE	LF	93											93		
625-00000	CONSTRUCTION SURVEYING	LS	1											1		
626-00000	MOBILIZATION	LS	1											1		
627-00002	THERMOPLASTIC PAVEMENT MARKING	SF	328											328		
630-00016	TRAFFIC CONTROL (SPECIAL) LS	LS	1											1		

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

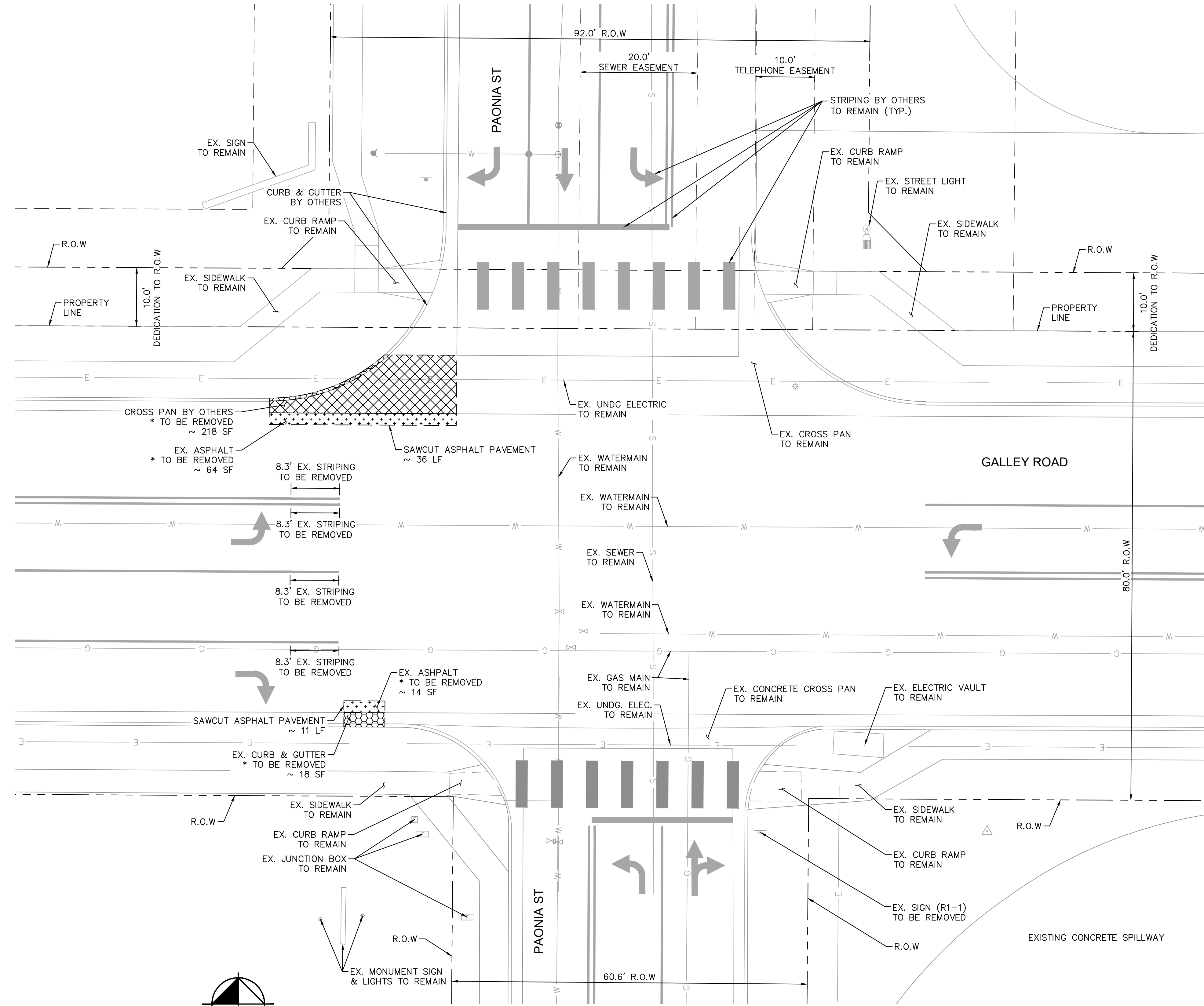
DESIGNED BY: KRK  
 DRAWN BY: RES  
 CHECKED BY: EJC  
 DATE: 04/17/2023

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

PRELIMINARY  
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 Kimley»Horn  
 Kimley-Horn and Associates, Inc.

PROJECT NO.  
 096668009  
 SHEET  
 4

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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**

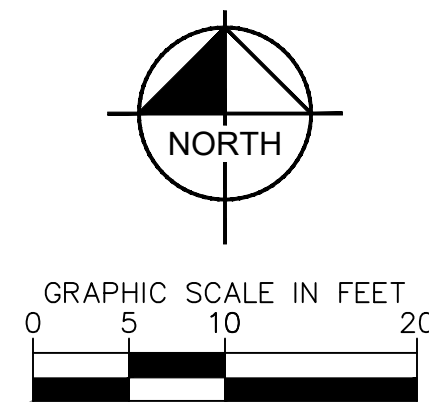
- REMOVE EX. CONCRETE CROSS PAN
- REMOVE EXISTING CURB & GUTTER
- REMOVE EXISTING ASPHALT
- SAWCUT

**\* 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.



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: EJJ  
 DATE: 04/17/2023

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

**PRELIMINARY**  
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PROJECT NO.  
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SHEET  
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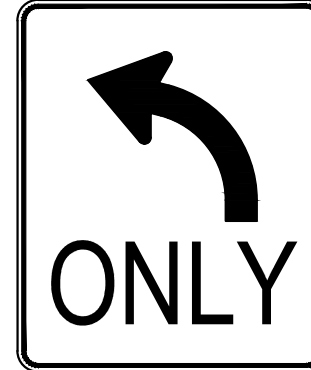
NO.	REVISION	BY	DATE	APPR

**PAVEMENT MARKING LEGEND**

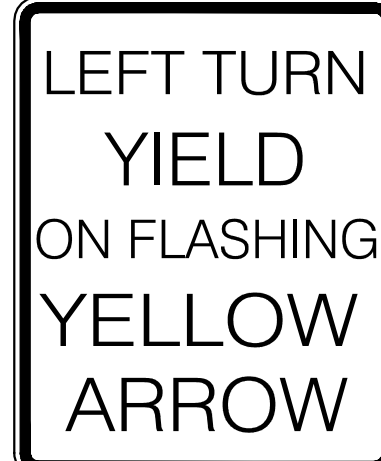


**SIGNAGE LEGEND**

**PEDESTRIAN SIGNAL FACE**



S1  
R3-5L  
(30"X36")



S2  
R10-27A  
(30"X36")



S3  
R9-3  
(24"X24")



D3-1 (Sheet 1 of 3)  
Street Name Sign



D3-1 - PRINCIPAL LEGEND WITH DESCENDING STROKES



D3-1 - WITHOUT BORDER, PRINCIPAL LEGEND WITH OR WITHOUT DESCENDING STROKES

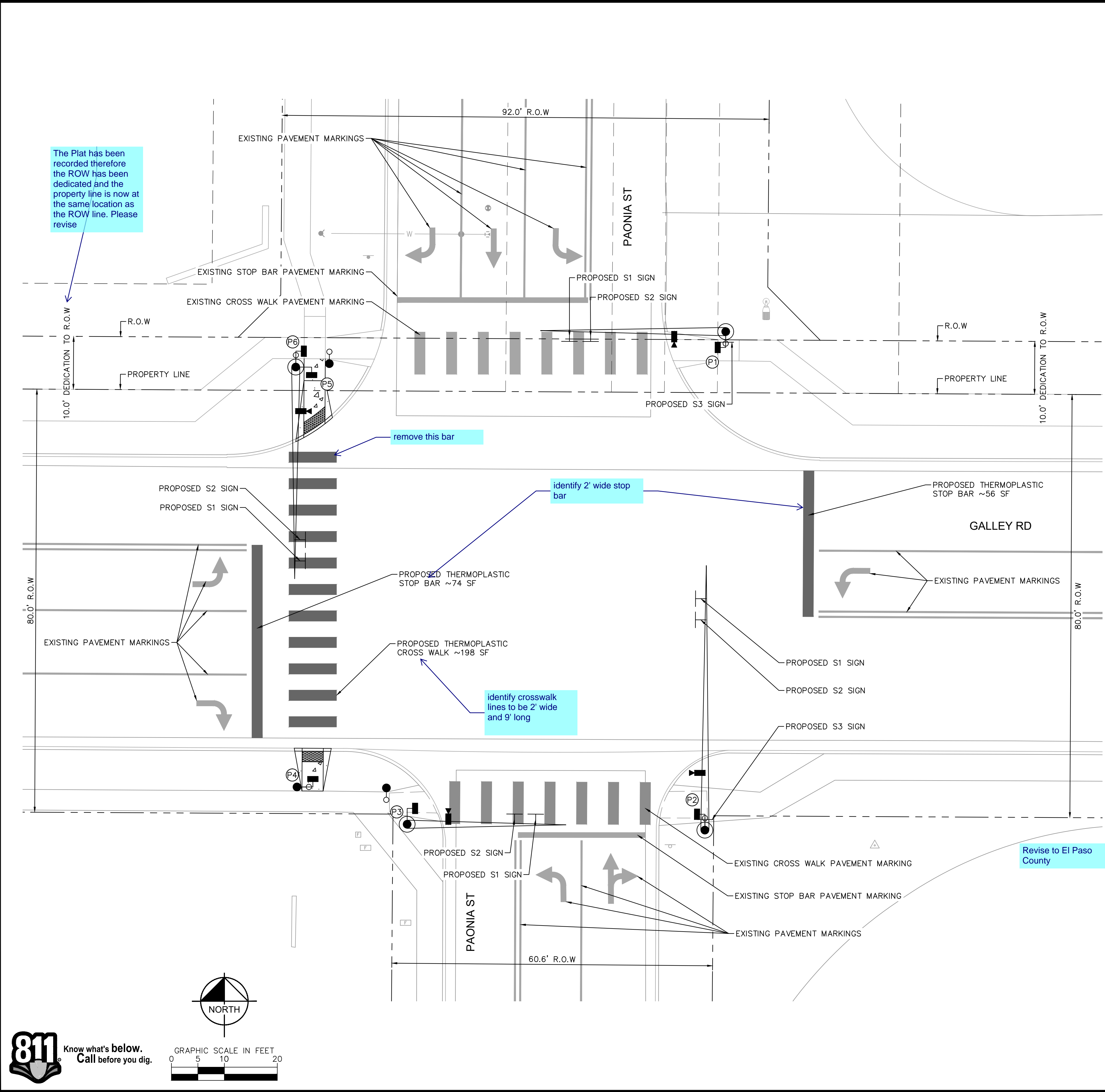
	A	B	C	D	E	F	G	H	J	K	L	M	N	O
VAR	8	0.375	2	4 D	3 D	3	3 (MIN)	3	1	1.75	2.25	2.75	15 D	
VAR	12	0.5	3	6 D	4 D	5	4.5 (MIN)	4.5	1.5	2.75	3.25	4.75	3 D	
VAR	18	0.75	5	8 D	5.33 D	7.67	5.33 (MIN)	6	1.875	5	5	7.67		
VAR	24	1	6	12 D	6 D	10	9 (MIN)	9	2.25	5.5	6.5	9.5		

COLORS: LEGEND, BORDER - WHITE (RETROREFLECTIVE)  
 BACKGROUND - GREEN (RETROREFLECTIVE)  
 BACKGROUND (ALTERNATE) - BLUE OR BROWN (RETROREFLECTIVE)

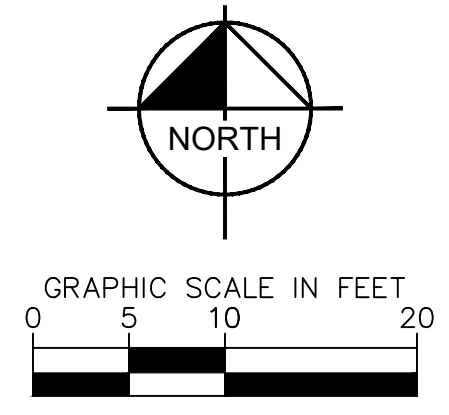
X-XX

O = PRIVATE ROAD

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Know what's below.  
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- Galley Rd (2 EACH)
  - Paonia St (2 EACH)
- (STREET NAME SPECS PER CDOT)

Provide size of each sign (2'x?). Refer to attached specs. above.

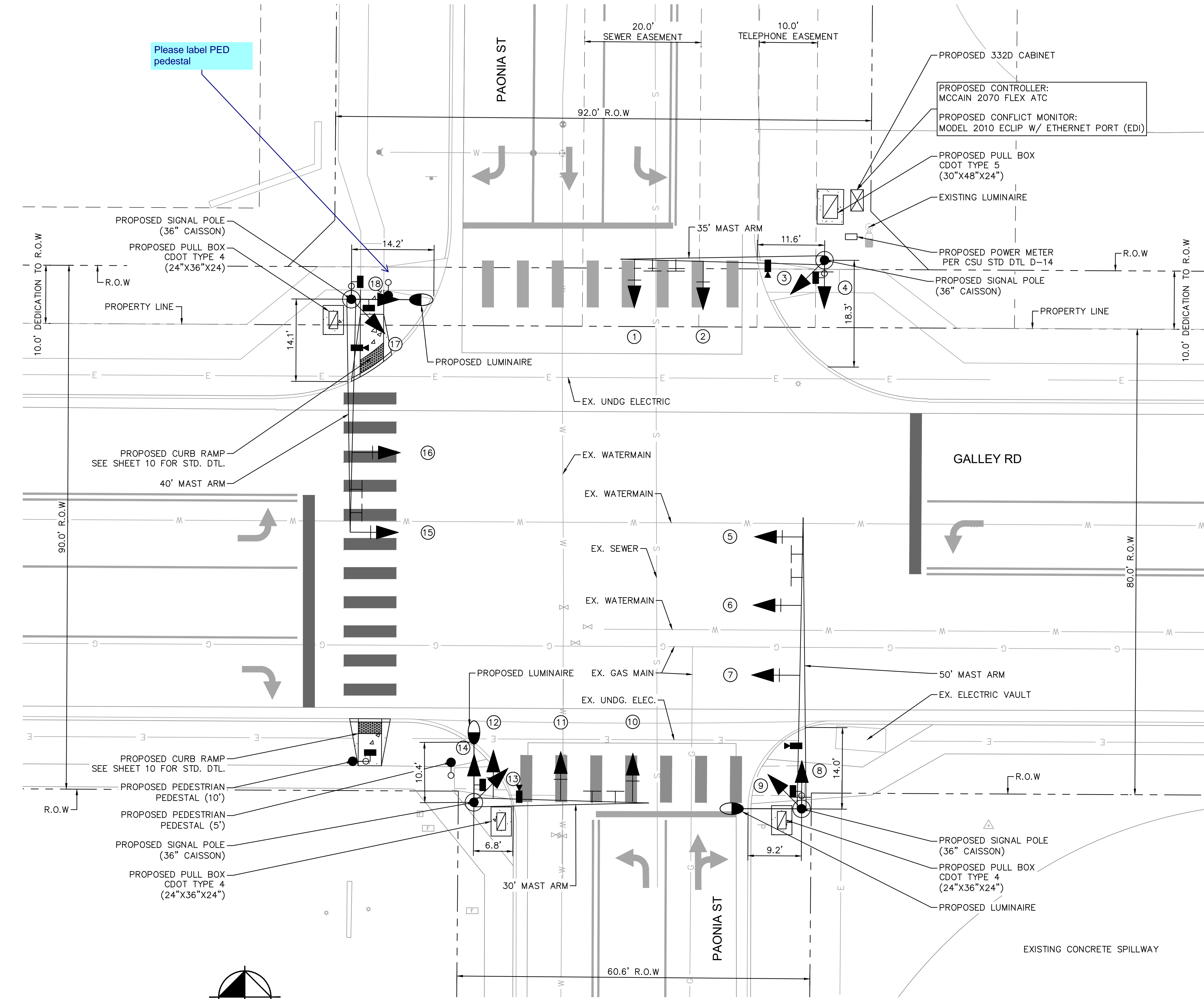
**SOLAC**  
GALLEY RD

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PROJECT NO.  
096668009

SHEET  
6

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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 9 FOR PUSH BUTTON PROXIMITY DETAIL

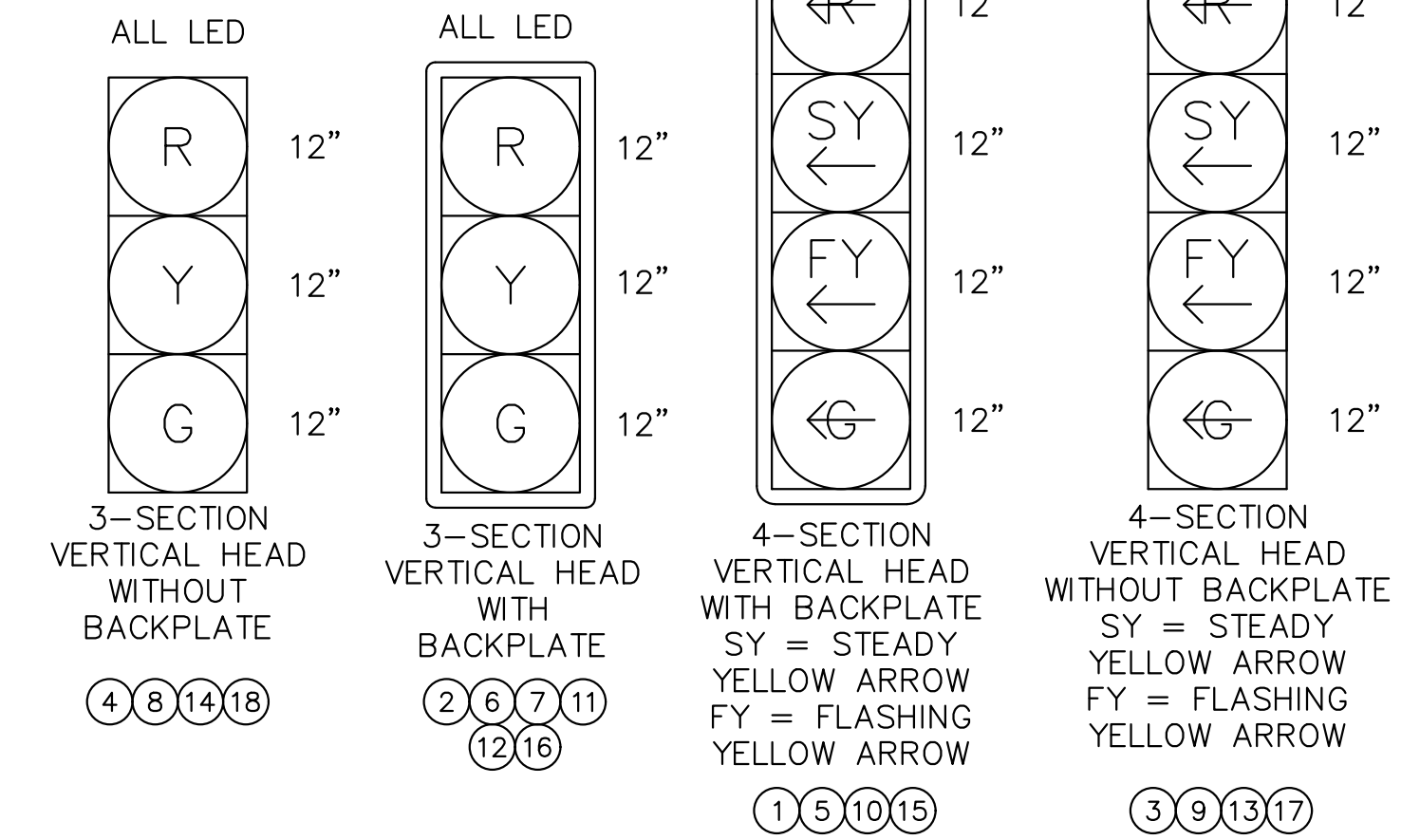
**TRAFFIC SIGNAL LEGEND**

- ☒ CONTROLLER
- ☒ PULL BOX (CDOT TYPE 4 & TYPE 5)
- ➔ SIGNAL HEAD (LED)
- ☐ POWER METER PEDESTAL
- ⚡ PEDESTRIAN HEAD
- ⚡ PEDESTRIAN PUSH BUTTON
- 📷 VEHICLE DETECTION SYSTEM (SINGLE CAMERA)
- ⊥ OVERHEAD MOUNTED SIGN
- ⚡ MAST ARM & SIGNAL POLE
- PEDESTAL/PUSHBUTTON POLE
- ⚡ LUMINAIRE (LED)
- CONDUIT

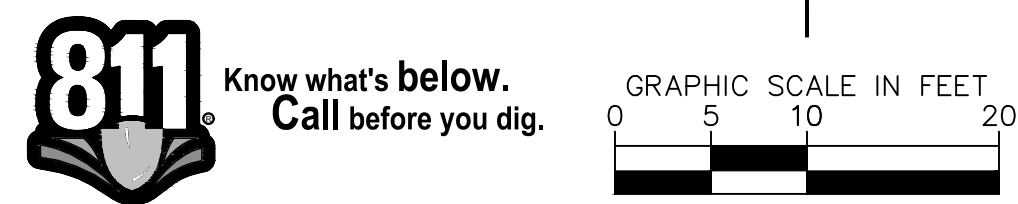
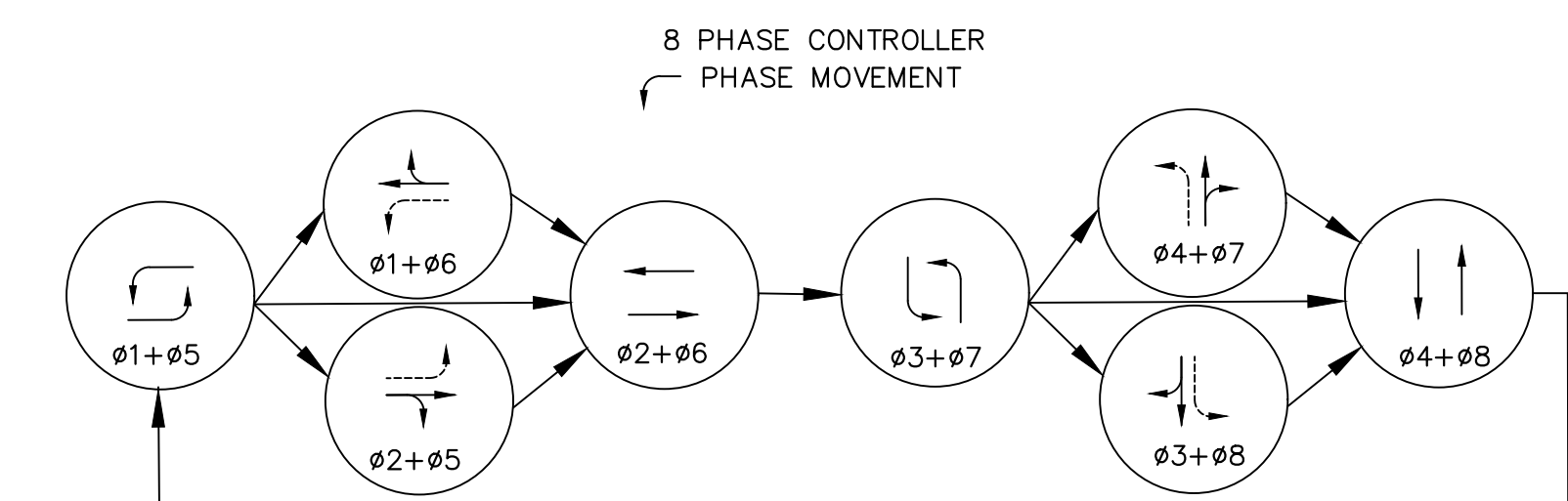
**UTILITY LEGEND**

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

**TRAFFIC SIGNAL FACE LEGEND**



**PHASING DIAGRAM**



**811** Know what's below.  
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**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: 04/17/2023

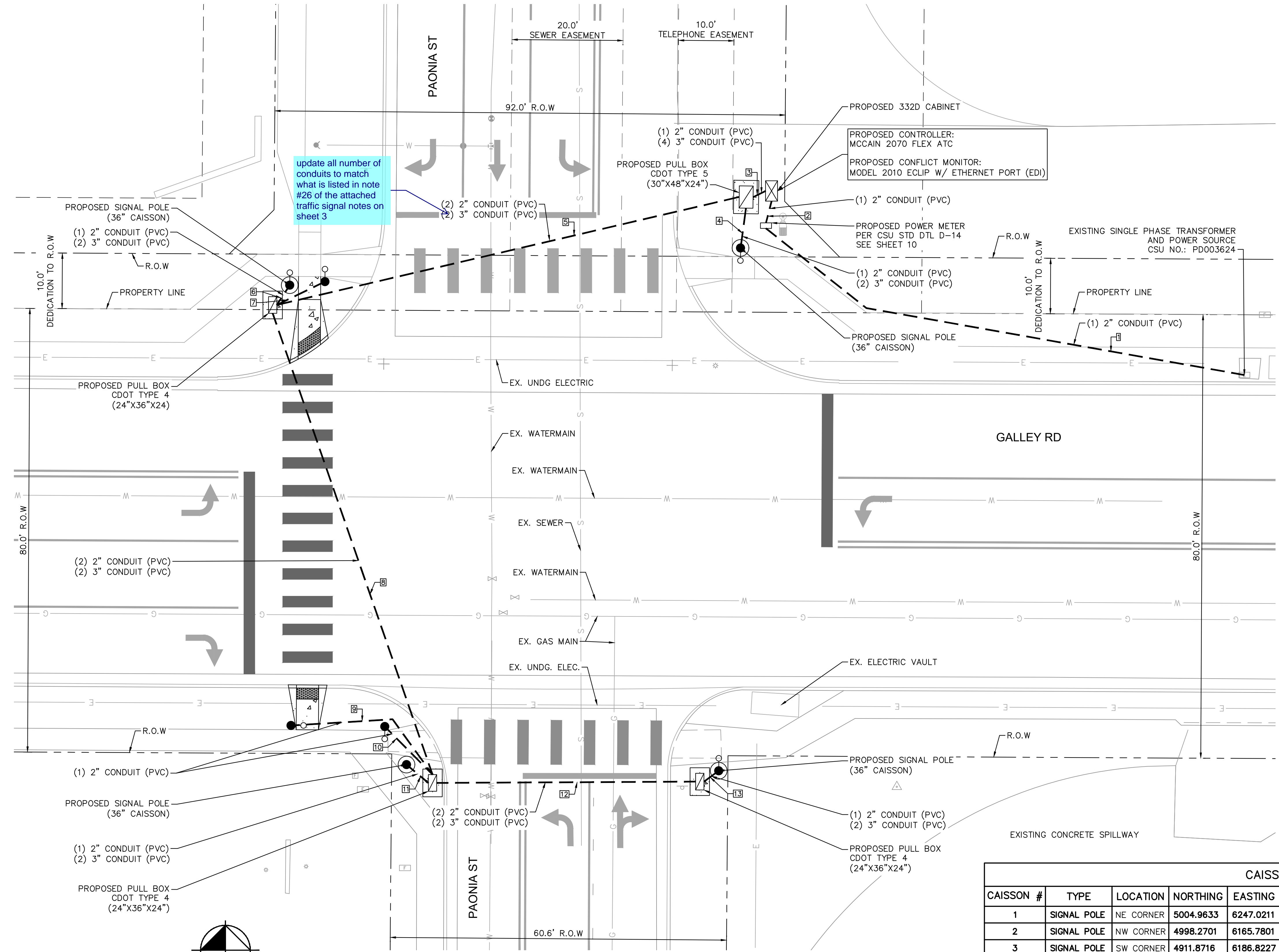
**SOLACE APARTMENTS FILING NO. 2**  
CONSTRUCTION DOCUMENTS  
**GALLEY RD & PAONIA ST - TRAFFIC SIGNAL PLANS**  
SIGNAL PLAN

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Kimley-Horn and Associates, Inc.

PROJECT NO.  
096668009

SHEET  
7

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update all number of conduits to match what is listed in note #26 of the attached traffic signal notes on sheet 3

**TRAFFIC SIGNAL LEGEND**

- CONTROLLER
- PULL BOX (24"x36"x18")
- SIGNAL HEAD (LED)
- POWER METER PEDESTAL
- PEDESTRIAN HEAD
- PEDESTRIAN PUSH BUTTON
- VEHICLE DETECTION SYSTEM (SINGLE CAMERA)
- 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**

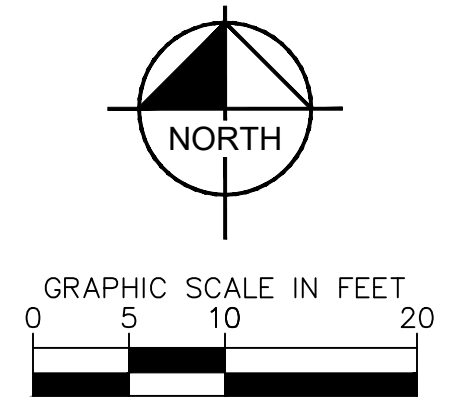
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5. TOP OF CAISSON SHALL BE FLUSH WITH SIDEWALK IF DIRECTLY ADJACENT TO SIDEWALK OR A MINIMUM OF 2" ABOVE THE LANDSCAPING

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	(1) 2" CONDUIT (4) 3" CONDUIT	CONTROLLER TO HR PULL BOX
4	7	(1) 2" CONDUIT (2) 3" CONDUIT	HR PULL BOX TO SIGNAL POLE
5	86	(2) 2" CONDUIT (2) 3" CONDUIT	DIRECTIONAL BORING
6	4	(1) 2" CONDUIT (2) 3" CONDUIT	PULL BOX TO SIGNAL POLE
7	10	(1) 2" CONDUIT	PULL BOX TO PEDESTAL
8	88	(2) 2" CONDUIT (2) 3" CONDUIT	DIRECTIONAL BORING
9	31	(1) 2" CONDUIT	PULL BOX TO PEDESTAL
10	12	(1) 2" CONDUIT	PULL BOX TO PEDESTAL
11	5	(1) 2" CONDUIT (2) 3" CONDUIT	PULL BOX TO SIGNAL POLE
12	47	(2) 2" CONDUIT (2) 3" CONDUIT	DIRECTIONAL BORING
13	3	(1) 2" CONDUIT (2) 3" CONDUIT	PULL BOX TO SIGNAL POLE

CONDUIT SUMMARY	TOTAL
2 INCH CONDUIT (TRENCHED) = 79 LF	2 INCH CONDUIT = 614 LF
2 INCH CONDUIT (BORED) = 535 LF	
3 INCH CONDUIT (TRENCHED) = 50 LF	3 INCH CONDUIT = 492 LF
3 INCH CONDUIT (BORED) = 442 LF	

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	4998.9125	6172.1191	18"	4'-8"	N/A	6248.32
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.



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**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: 04/17/2023

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

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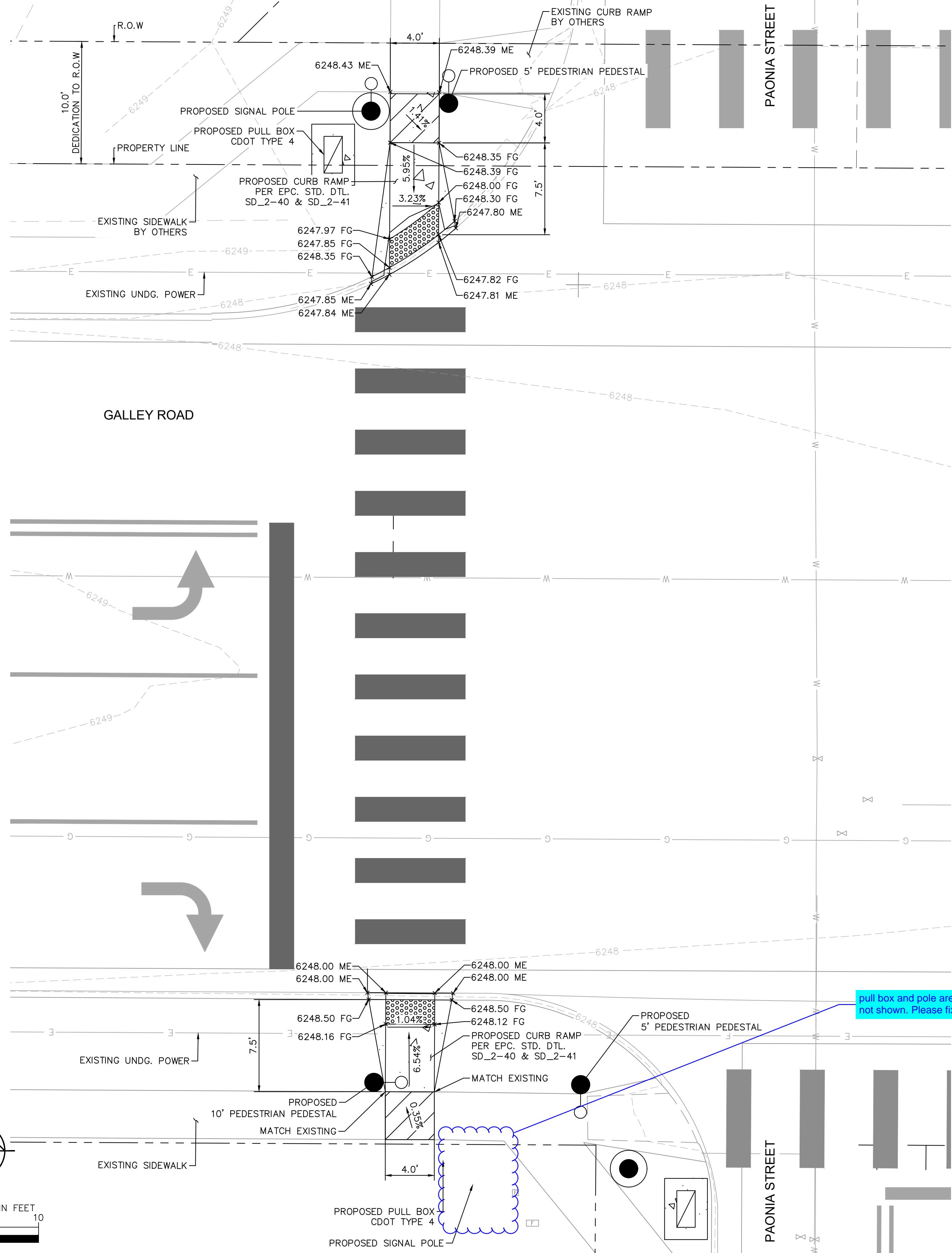
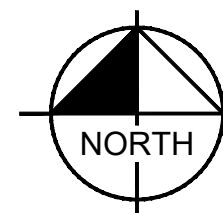
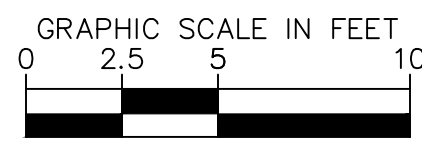
PROJECT NO.  
09668009  
 SHEET  
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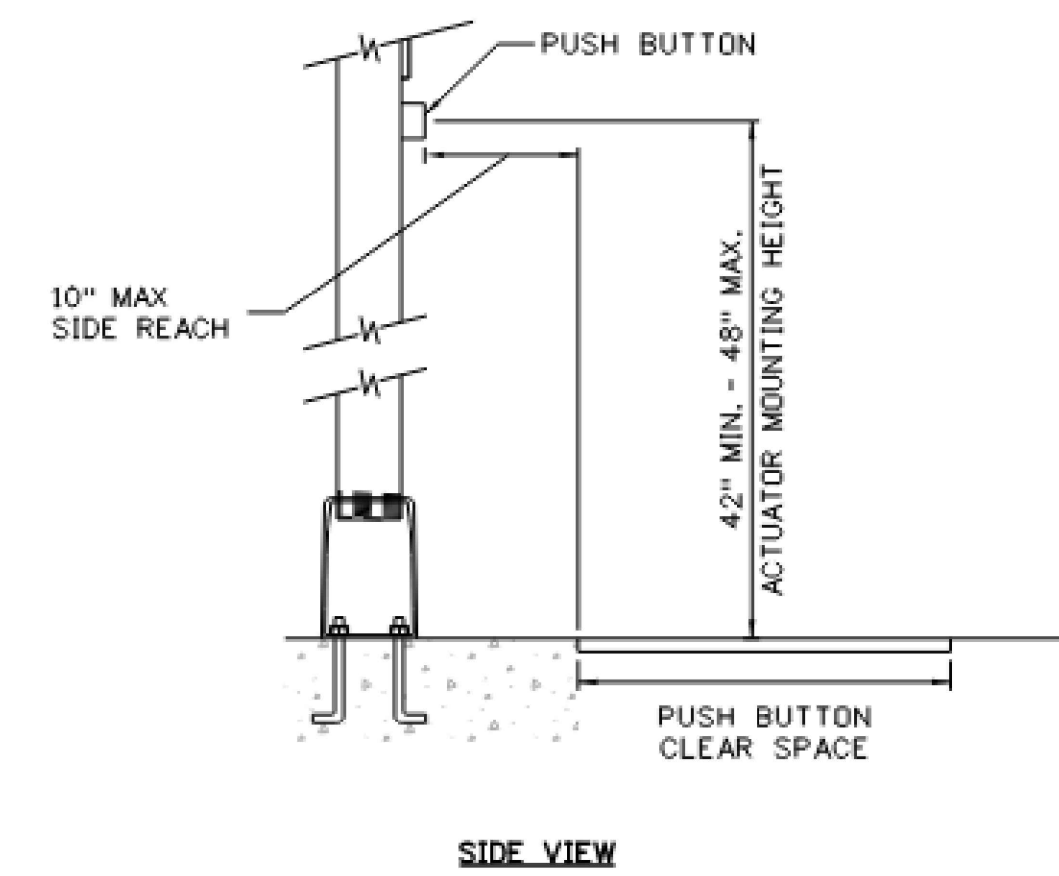
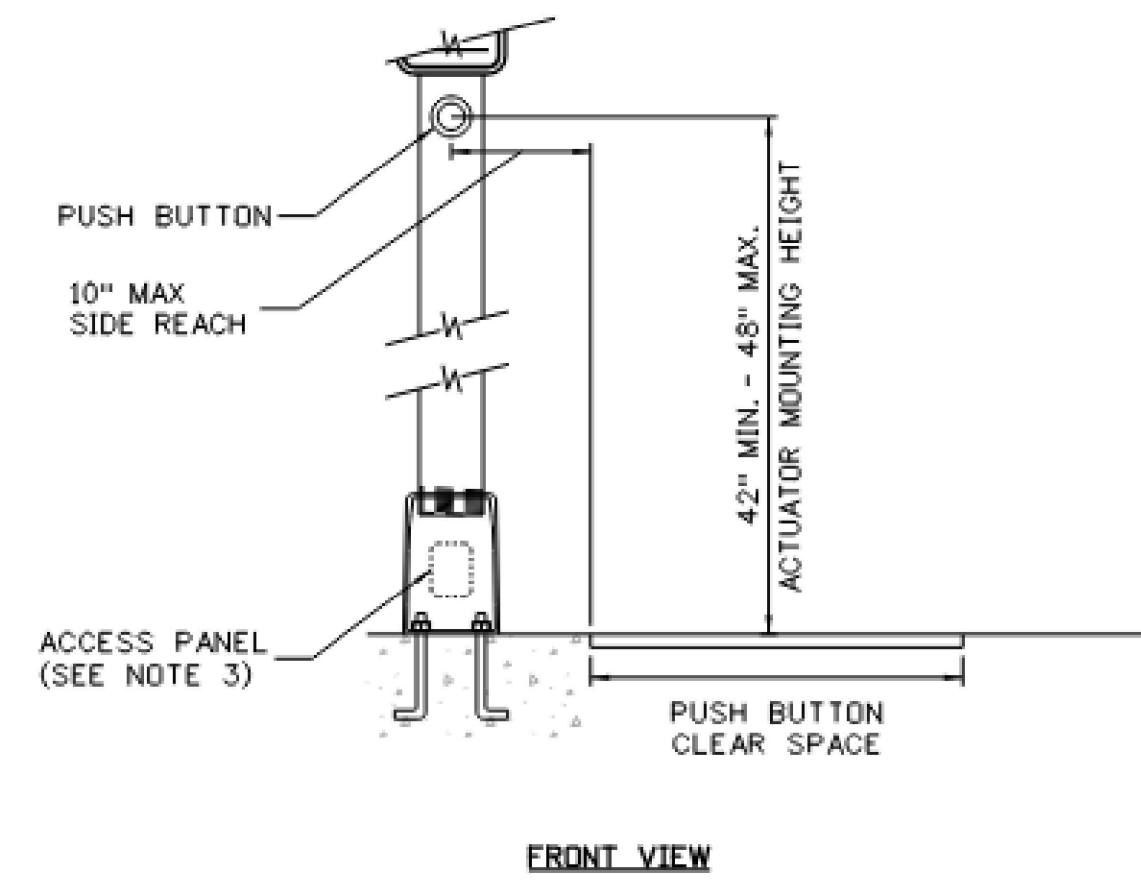


**LEGEND**

- 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

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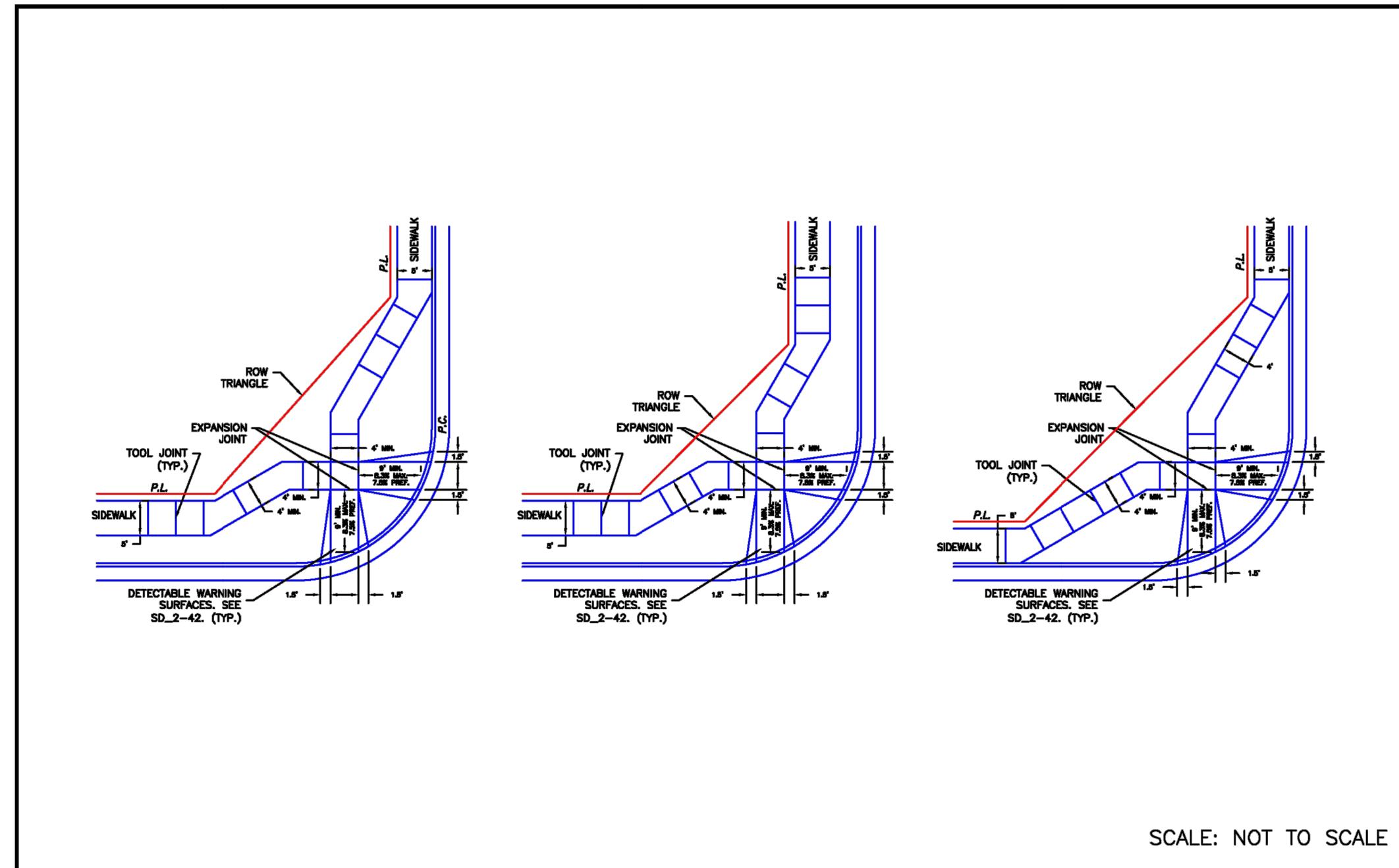
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 GRADING DETAIL

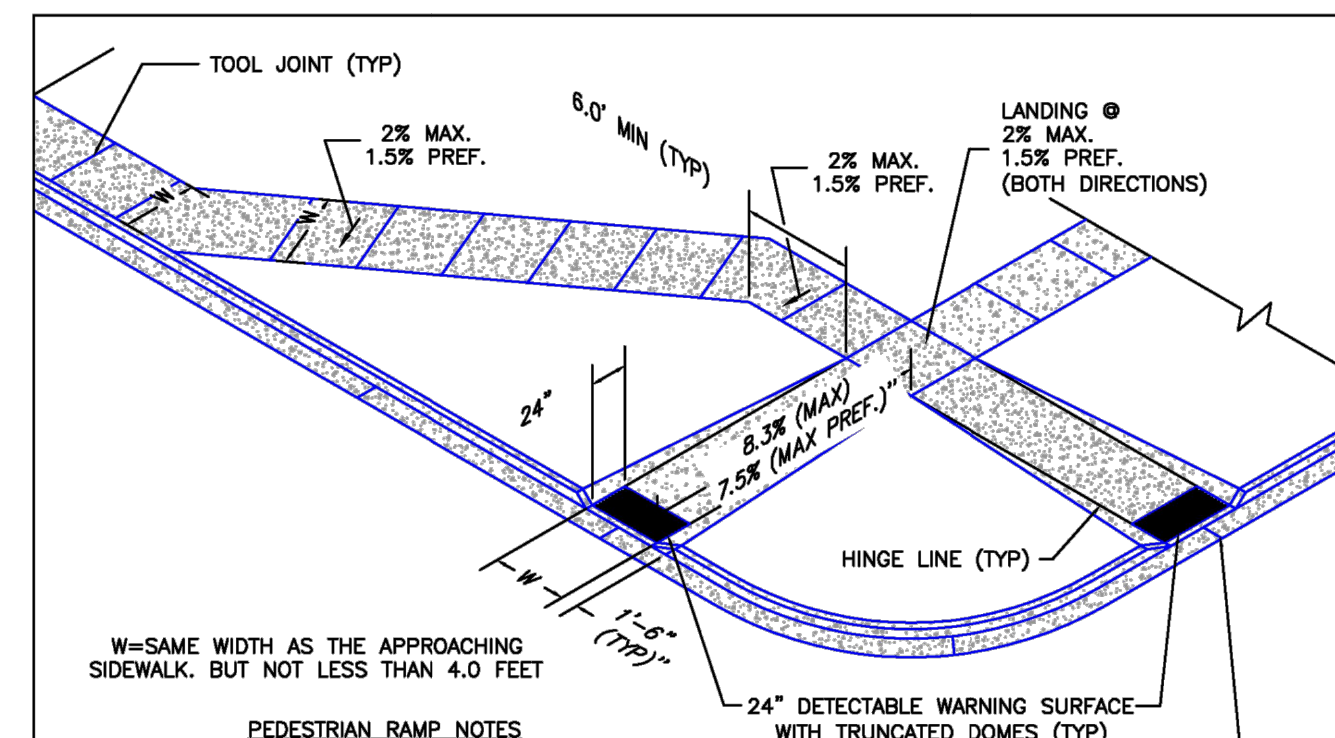
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SCALE: NOT TO SCALE

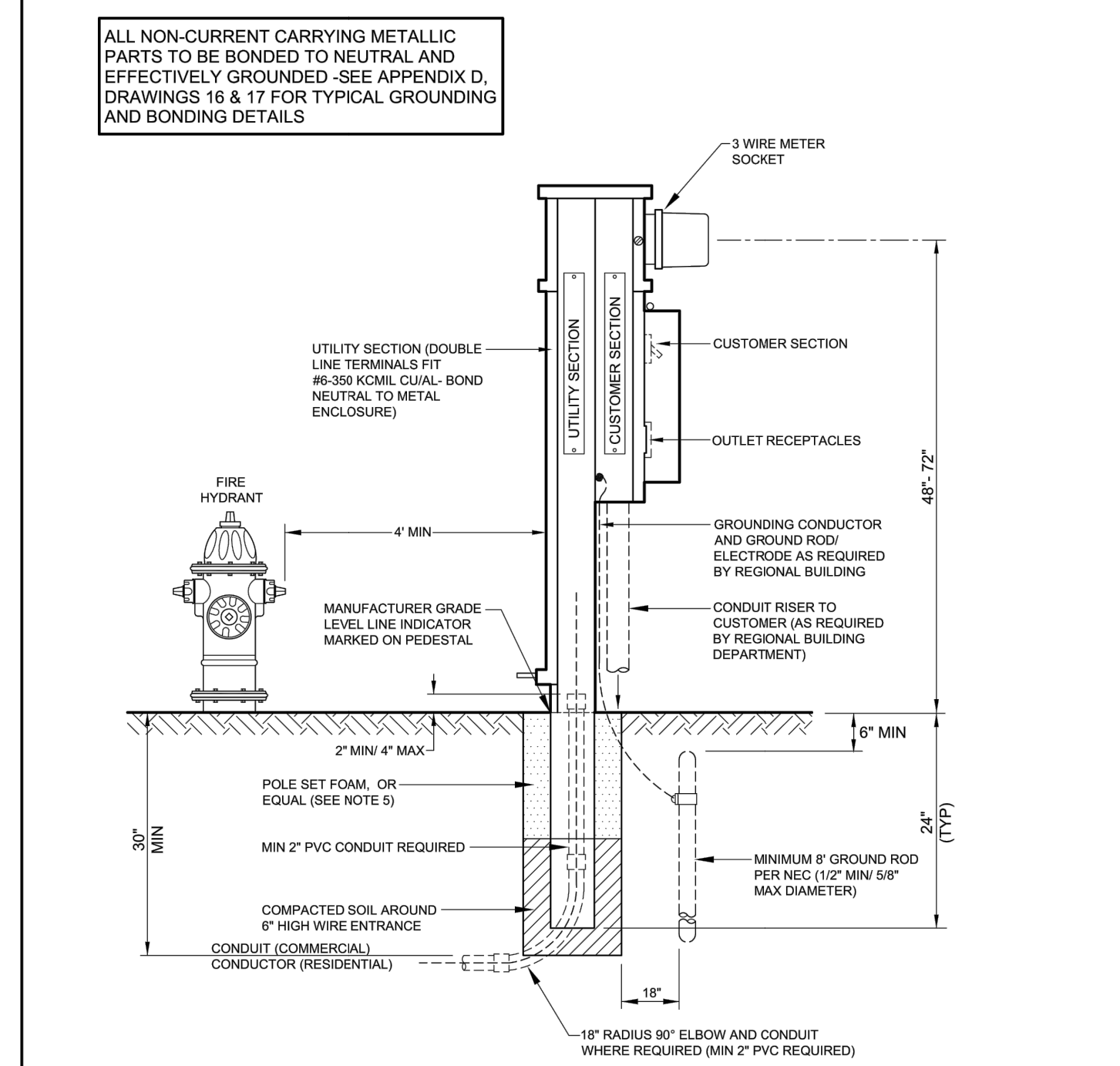
DATE APPROVED: 6/23/20 Jennifer E. Irvine DEPARTMENT OF PUBLIC WORKS	REVISION DATE: 6/23/20	FILE NAME: SD_2-40	DEPARTMENT OF PUBLIC WORKS
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- WHEN SAME WIDTH AS THE APPROACHING SIDEWALK, BUT NOT LESS THAN 4.0 FEET
- PEDESTRIAN RAMP NOTES**
- ALL WORK 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 4,500 PSI CONCRETE, MINIMUM 4" THICK, NON-COLORED, NON-SCORED, COURSE BRUSH FINISH.
  - PEDESTRIAN CURB RAMP LOCATION AND LENGTH MAY REQUIRE MODIFICATION TO MAINTAIN THE 8.3% MAXIMUM RUNNING RAMP SLOPE DUE TO STREET INTERSECTION GRADES AND/OR ALIGNMENTS. SEE ECM SECTION 6.8.8 FOR PEDESTRIAN DISTRIBUTION 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 (PATINA NATURAL FINISH) AND IN ACCORDANCE WITH ECM CHAPTER 6 AND SOL\_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 TERMINAL RAMP WHICH MAY BE PARALLEL, SUBJECT TO APPROVAL.
  - DRAINAGE STRUCTURES, TRAFFIC SIGNAL/STORM 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 5%.
- GENERAL NOTES**
- WHERE THE 1"-6" FLARED SIDE(S) OF A PERPENDICULAR CURB RAMP IS (ARE) 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(S) ON OPPOSITE CORNERS SHALL BE REVIEWED BEFORE CONSTRUCTING NEW RAMP(S).
  - AT MARKED PEDESTRIAN CROSSINGS, THE BOTTOM OF THE RAMP(S), EXCLUDING OF THE FLARE SIDES, SHALL BE TOTALLY CONTAINED WITHIN THE MARKINGS.

DATE APPROVED: 6/23/20 Jennifer E. Irvine DEPARTMENT OF PUBLIC WORKS	REVISION DATE: 6/23/20	FILE NAME: SD_2-41	DEPARTMENT OF PUBLIC WORKS
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DRAWING 9 - PERMANENT AND TEMPORARY METER PEDESTAL (100 OR 200 AMP)



- NOTES:**
- May be used for commercial services, i.e., traffic signals, site lighting and sprinkler systems, as well as mobile home sites.
  - Pedestal and related equipment furnished by customer. Pedestal to meet Colorado Springs Utilities Electric Distribution Construction Standard 8-5 (Appendix-F) and Material Specification 194-113-406 (Appendix-E).
  - Installation by customer with Regional Building inspections.
  - Refer to trench information: 7.02a (residential) or 10.1f (commercial).
  - Concrete flowable fill may be used as long as conductor is not encased.
  - Pedestal must be placed within 10 feet of existing transformer or secondary junction box (commercial policy). When served from an overhead source, meter pedestal must be no closer than 15 feet from the pole.

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