CITY OF CAMPBELL
STANDARD DETAILS

FOR
PUBLIC WORKS CONSTRUCTION

JANUARY 2026

Amy Olay
Public Works Director

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

STANDARD DETAILS
TABLE OF CONTENTS

TITLE	DETAIL
GENERAL DETAILS	
ABBREVIATIONS	G-1
CIVIL DETAILS	
AC PAVEMENT REMOVAL & RESTORATION AT PCC IMPROVEMENTS	C-1
CONCRETE CURB AND GUTTER DETAILS	C-2
CONCRETE VERTICAL CURB TYPES	C-3
ROLLED CURB TO VERTICAL CURB TRANSITION	C-4
CASE A CURB RAMP	C-5
CASE B CURB RAMP	C-6
CASE C CURB RAMP	C-7
TRAFFIC ISLAND WALKWAY DETAILS	C-8
SIDEWALK CONFIGURATIONS	C-9.1
SIDEWALK CONFIGURATIONS – NOTES	C-9.2
SIDEWALK WITH OBSTRUCTIONS	C-10
DRAINAGE INLET	C-11
FLAT GRATE INLET	C-12
FRAME, GRATE, AND HOOD	C-13
ADAPTATION FOR EXISTING DRAINAGE INLET IN NEW DRIVEWAY	C-14
MANHOLE FRAME & COVER	C-15
STANDARD MANHOLE 21" DIAMETER & SMALLER PIPE	C-16
RESIDENTIAL DRIVEWAY (DETACHED SIDEWALK A)	C-17.1
RESIDENTIAL DRIVEWAY (DETACHED SIDEWALK A) – NOTES	C-17.2
RESIDENTIAL DRIVEWAY (DETACHED SIDEWALK B)	C-18.1
RESIDENTIAL DRIVEWAY (DETACHED SIDEWALK B) – NOTES	C-18.2
RESIDENTIAL DRIVEWAY (ATTACHED SIDEWALK)	C-19.1
RESIDENTIAL DRIVEWAY (ATTACHED SIDEWALK) – NOTES	C-19.2
RESIDENTIAL DRIVEWAY (ROLLED CURB)	C-20.1
RESIDENTIAL DRIVEWAY (ROLLED CURB) – NOTES	C-20.2
COMMERCIAL DRIVEWAY	C-21.1
COMMERCIAL DRIVEWAY – NOTES	C-21.2
BOULEVARD DRIVEWAY	C-22.1
BOULEVARD DRIVEWAY – NOTES	C-22.2
TRENCH RESTORATION (LATERAL)	C-23
TRENCH RESTORATION (MAIN-LINE)	C-24
TRENCH RESTORATION (SIGNAL, LIGHTING & ELECTRICAL CONDUIT INSTALLATION – IN PAVEMENT AREAS)	C-25
TRENCH RESTORATION (SIGNAL, LIGHTING & ELECTRICAL CONDUIT INSTALLATION – IN WALKWAY AREAS)	C-26
TRENCH RESTORATION (SIGNAL, LIGHTING & ELECTRICAL CONDUIT INSTALLATION – IN UNIMPROVED AREAS)	C-27

CONTINUED ON PAGE 2

CONTINUED FROM PAGE 1

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT
STANDARD DETAILS
TABLE OF CONTENTS - CONTINUED

TITLE	DETAIL
MICROTRENCHING	C-28.1
MICROTRENCHING – NOTES	C-28.2
STREET MONUMENT	C-29
STREET MONUMENT FRAME & COVER AND MARKER DISC CASTING	C-30
ELECTRICAL DETAILS	
ELECTRICAL GENERAL NOTES	E-0.1
ELECTRICAL GENERAL NOTES	E-0.2
PG&E POINT OF CONNECTION & STREETLIGHT SERVICE	E-1
POLE BONDING, GROUNDING, AND GROUTING	E-2
UNDERGROUND STREETLIGHT PULL BOX	E-3
UNDERGROUND STREETLIGHT SERVICE	E-4
UNDERGROUND STREETLIGHT PULL BOX FOR BRANCH CIRCUIT AND SMALL CELL	E-5.1
UNDERGROUND STREETLIGHT PULL BOX FOR BRANCH CIRCUIT AND SMALL CELL – NOTES	E-5.2
UNDERGROUND STREETLIGHT PULL BOX – TRAFFIC	E-6
ELECTROLIER/PULL BOX & FOUNDATION CAP	E-7
POST TOP DECORATIVE LIGHT	E-8
DECORATIVE STREETLIGHT FOUNDATION & ANCHORAGE (SIDEWALK AND LANDSCAPE)	E-9
POLE LABELS	E-10
PULL BOX DIMENSIONS AND BOLT DETAILS	E-11
MODIFIED TYPE P CONTROLLER CABINET ANCHORAGE & FOUNDATION	E-12
LANDSCAPE DETAILS	
STREET TREE PLANTING & STAKING DETAIL	L-1
TREE STAKING TABLE AND NOTES	L-2
BACKFLOW PREVENTER	L-3
TREE BUBBLER	L-4
SHRUB PLANTING WITH BUBBLER	L-5
IRRIGATION HEAD	L-6
FLOW SENSOR & BOX	L-7
GATE VALVE & BOX	L-8
MASTER VALVE & BOX	L-9
QUICK COUPLING VALVE & BOX	L-10
PCC MAINTENANCE BAND ADJACENT TO MEDIAN ISLAND	L-11
PCC MOW BAND AND SEPARATOR	L-12
ISLAND NOSE FOR PLANTED MEDIAN	L-13
PLANTED MEDIAN ISLAND WITH CONCRETE CURB	L-14

CONTINUED ON PAGE 3

CONTINUED FROM PAGE 2

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

STANDARD DETAILS
TABLE OF CONTENTS - CONTINUED

TITLE **DETAIL**

SIGNS & STRIPING DETAILS

PAVEMENT MARKERS, TRAFFIC LINES, AND PAVEMENT MARKINGS NOTES ____ SS-0
POST & SIGN INSTALLATION ____ SS-1.1
POST & SIGN INSTALLATION - NOTES ____ SS-1.2
TYPE IV BARRICADE ____ SS-2
PAVEMENT MARKING - "STOP" LEGEND ____ SS-3
PARKING "T" STRIPING ____ SS-4
SPEED HUMP ____ SS-5

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
ADA	AMERICANS W/ DISABILITIES ACT
AWG	AMERICAN WIRE GAUGE
BB	BEARING BAR
BC	BACK OF CURB
BOC	BEGIN OF CURVE
BW	BACK OF WALK
CA	CALIFORNIA
CDF	CONTROLLED DENSITY FILL
CL	CLASS
CLR	CLEARANCE
CONC	CONCRETE
CS	COURTESY STRIP
CY	CUBIC YARDS
DI	DRAINAGE INLET
DIA.	DIAMETER
DWY	DRIVEWAY
EA.	EACH
EB	EDGE BAND
EC	END CURVE
ELEV	ELEVATION
ELL	ELBOW
EP	EDGE OF PAVEMENT
EW	EDGE OF WALK
EX	EXISTING
FB	FRAME BAR
FC	FACE OF CURB
FG	FINISH GRADE
GAL	GALLON
GALV.	GALVANIZED
GB	GRADE BREAK
GND	GROUND
GRS	GALVANIZED RIGID STEEL
HDG	HOT DIPPED GALVANIZED
HMA	HOT MIXED ASPHALT
I.D.	INNER DIAMETER
INV	INVERT
LBS	POUNDS
LG	LIP OF GUTTER
L/S	LANDSCAPE
MAX	MAXIMUM
MED	MEDIUM
MH	MANHOLE
MIN	MINIMUM
MOD	MODIFIED
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
NO.	NUMBER
NRTL	NATIONAL RECOGNIZED TESTING LABORATORY
NTS	NOT TO SCALE
OBJ	OBJECT
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OG	ORIGINAL GROUND
PCC	PORTLAND CONCRETE CEMENT
PERF.	PERFORATED
ℙL	PROPERTY LINE
PG&E	PACIFIC GAS & ELECTRIC
POC	POINT OF CURVE
PVC	POLYVINYL CHLORIDE
R	RADIUS
R.C.	RELATIVE COMPACTION
RCP	REINFORCED CONCRETE PIPE
RIM	MANHOLE RIM
SCH.	SCHEDULE
SQ.	SQUARE
STD	STANDARD
SW	SIDEWALK
TC	TOP OF CURB
TYP.	TYPICAL
U.G.	UNDERGROUND
UL	UL LISTED
W/	WITH
WPJ	WEAKENED PLANE JOINT

LEGEND

℄	CENTERLINE
FL	FLOW LINE
ℙL	PROPERTY LINE
	PCC

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

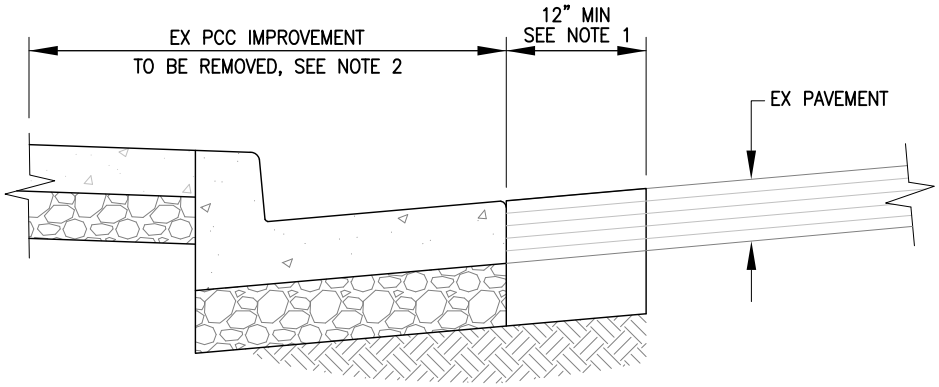
AMY OLAY
PUBLIC WORKS DIRECTOR

ABBREVIATIONS

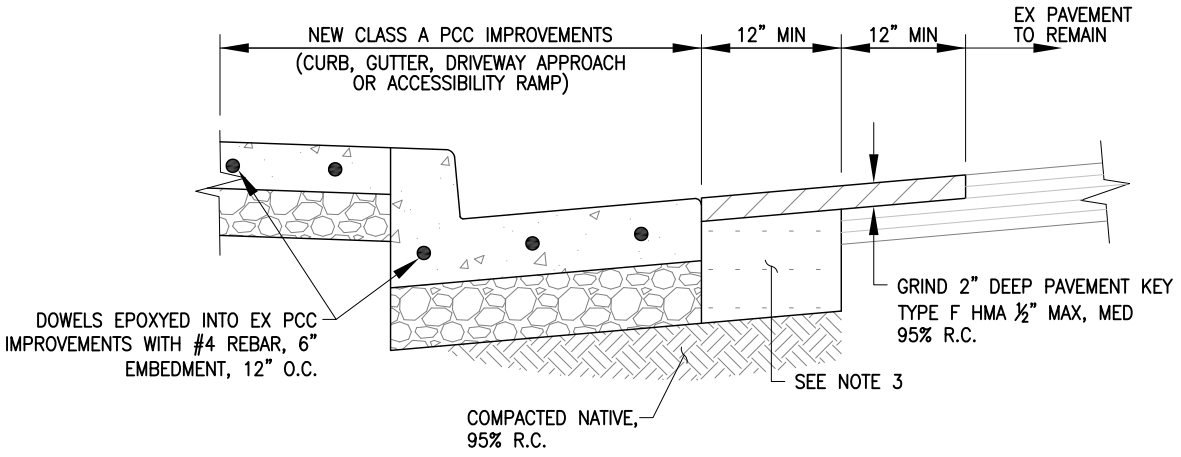
NTS

DETAIL NO.

G-1



REMOVAL



RESTORATION

NOTES:

1. SAWCUT AND REMOVE EXISTING AC PAVEMENT & BASE TO FULL DEPTH OR 12" MIN, WHICHEVER IS GREATER.
2. REMOVE EXISTING SIDEWALK AND CURB AND GUTTER TO NEAREST SCORE MARK.
3. ALLOW 2 SACK SAND/CEMENT SLURRY BACKFILL TO CURE FOR 48 HOURS MINIMUM.
4. APPLY TACK OIL TO ALL SURFACES PRIOR TO PLACING NEW AC.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

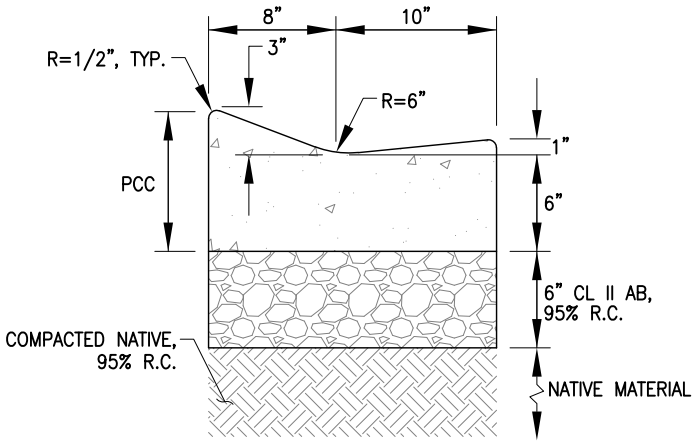
AMY OLAY
PUBLIC WORKS DIRECTOR

AC PAVEMENT REMOVAL & RESTORATION AT PCC IMPROVEMENTS

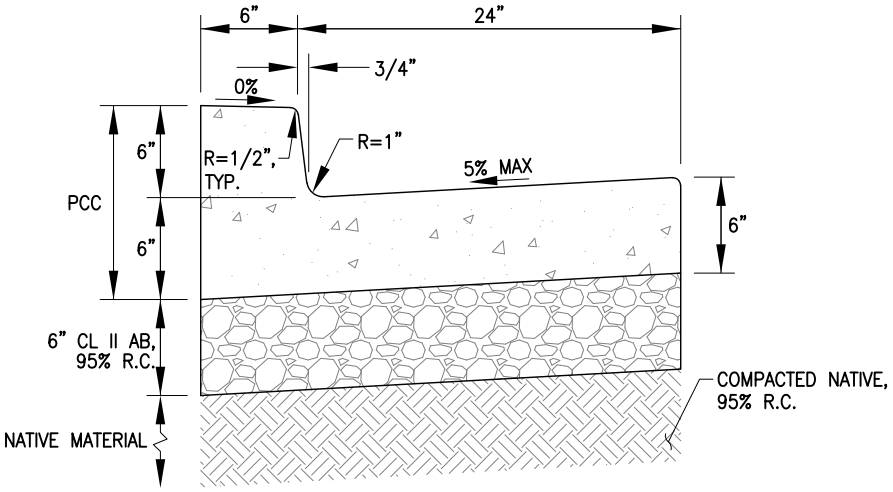
NTS

DETAIL NO.

C-1



A3 ROLLED CURB AND GUTTER DETAIL



A2 VERTICAL CURB AND GUTTER DETAIL

NOTES:

1. PCC SHALL BE CLASS A CONCRETE CONTAINING APPROX. 564 LBS OF PORTLAND CEMENT PER CY AND HAVE A 28–DAY COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 PSI.
2. INSTALL WEAKENED PLANE JOINTS AT 10' O.C.
3. ALL CONCRETE SURFACES SHALL BE TROWELLED WITH A LIGHT BROOM FINISH.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

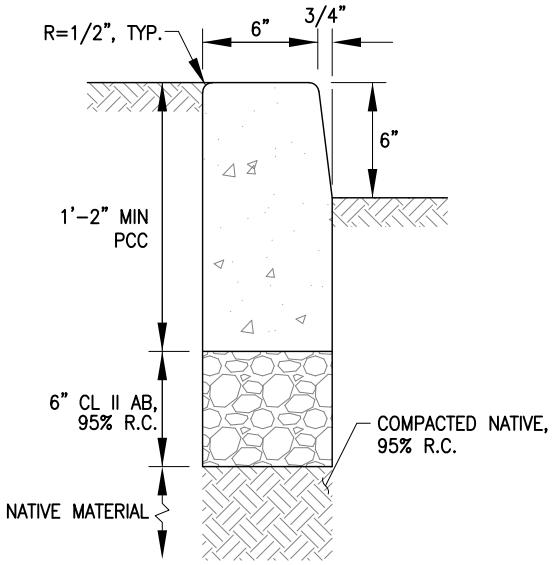
AMY OLAY
PUBLIC WORKS DIRECTOR

CONCRETE CURB AND GUTTER DETAILS

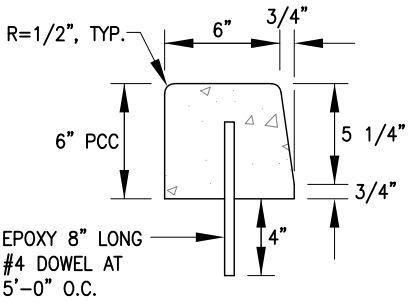
NTS

DETAIL NO.

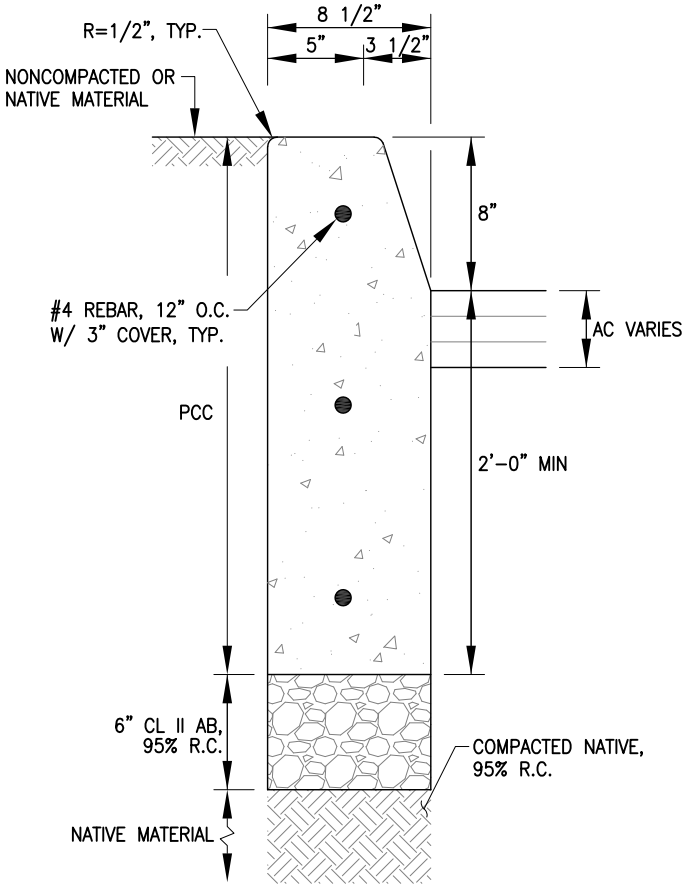
C–2



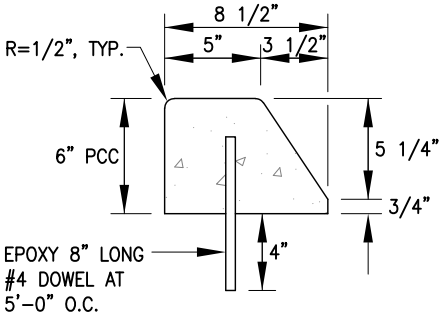
A1



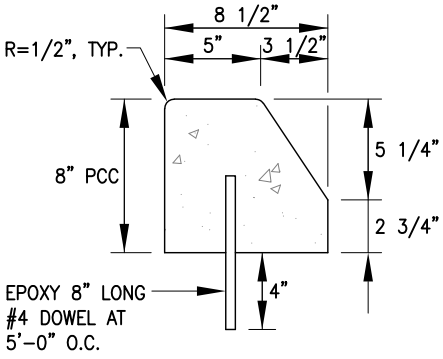
A1-6



B1



B3-6



B3-8

NOTES:

1. PCC SHALL BE CLASS A CONTAINING APPROX. 564 LBS OF PORTLAND CEMENT PER CY AND HAVE A 28-DAY COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 PSI.
2. INSTALL WEAKENED PLANE JOINTS AT 10' O.C.
3. ALL CONCRETE SURFACES SHALL BE TROWELLED WITH A LIGHT BROOM FINISH.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

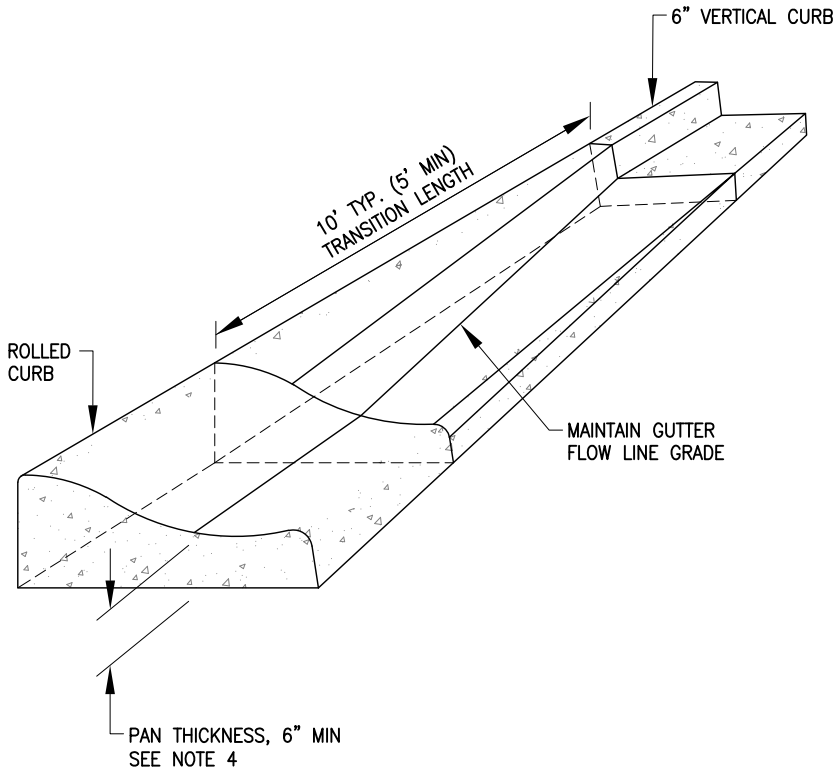
AMY OLAY
PUBLIC WORKS DIRECTOR

CONCRETE VERTICAL CURB TYPES

NTS

DETAIL NO.

C-3



NOTES:

1. NEW PCC IMPROVEMENTS SHALL BE DOWELED INTO EXISTING IMPROVEMENTS.
2. DOWELS SHALL BE #4 REBAR, GRADE 60, 12" LONG, AND SHALL BE FIRMLY EPOXIED INTO EXISTING IMPROVEMENTS WITH 6" EMBEDMENT.
3. TRANSITION POINTS SHALL START AND END AT EXISTING SCORE JOINT UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
4. PAN THICKNESS SHALL BE MEASURED FROM FLOW LINE TO BOTTOM OF CONCRETE.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

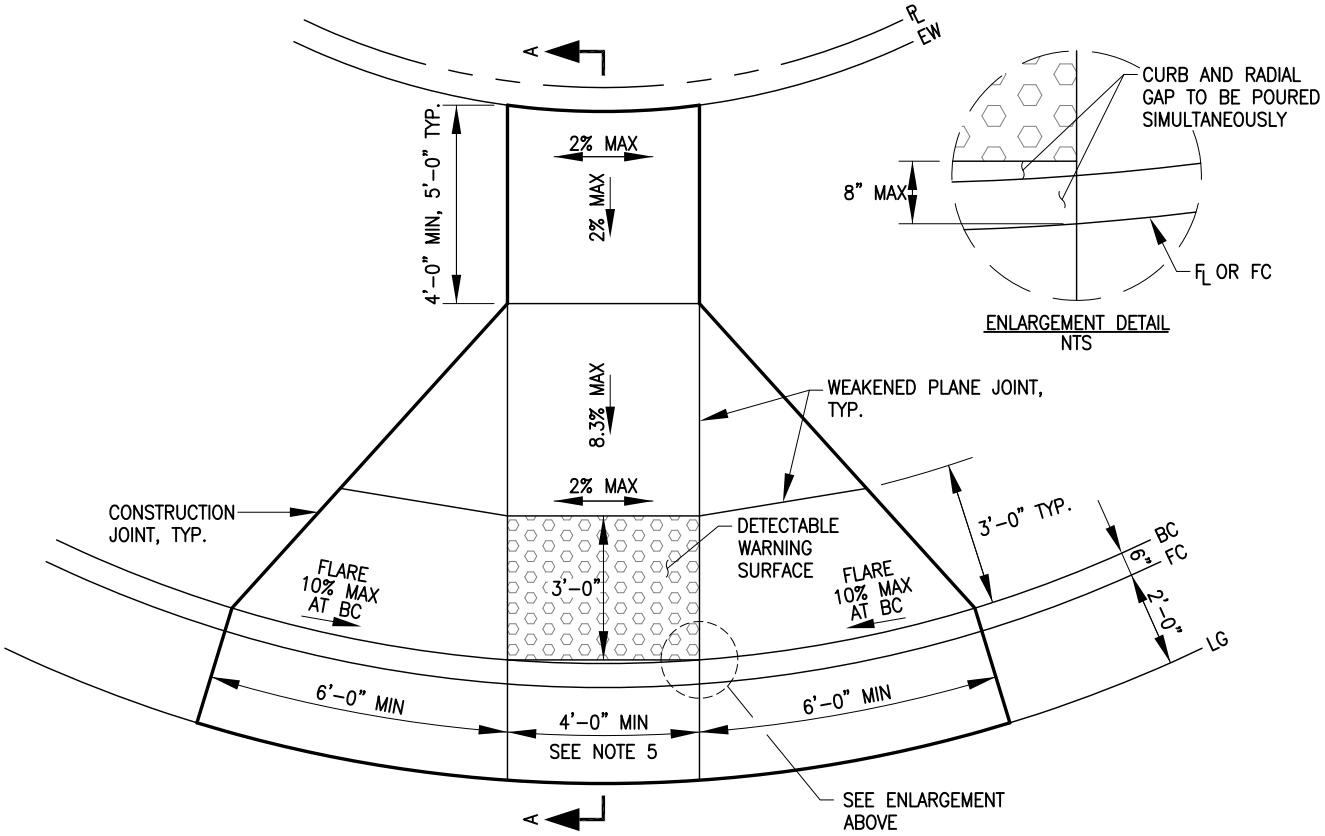
AMY OLAY
PUBLIC WORKS DIRECTOR

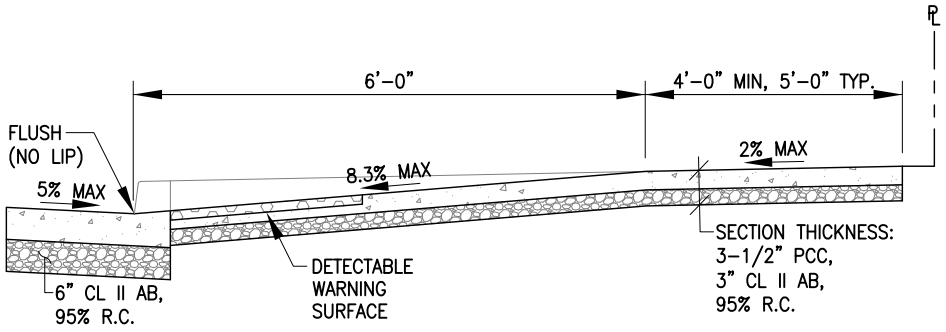
ROLLED CURB TO VERTICAL CURB TRANSITION

NTS

DETAIL NO.

C-4





SECTION A–A

NOTES:

1. UNLESS OTHERWISE SHOWN, ALL JOINTS SHALL BE WEAKENED PLANE JOINTS 1/4" WIDE, 2" DEEP.
2. ALL SLOPED SURFACES SHALL HAVE LIGHT BROOM FINISH FOR MARKED CONTRAST FROM SIDEWALK FINISH.
3. DETECTABLE WARNING SURFACE SHALL BE DETECTABLE WARNING ADA–2 PAVERS MANUFACTURED BY WAUSAU TILE, COLOR A–60, AND SHALL BE PLACED IN A DRY SET PROCESS PER THE MANUFACTURER'S INSTRUCTION.
4. DETECTABLE WARNING SURFACE SHALL BE ALIGNED IN COMPLIANCE WITH PUBLIC RIGHT–OF–WAY ACCESSIBILITY GUIDELINES (PROWAG).
5. PROVIDE CLEAR SPACE 4'X4' MINIMUM BEYOND THE BOTTOM GRADE BREAK OF THE PERPENDICULAR CURB RAMP RUN AND WITHIN THE WIDTH OF THE CROSSWALK. THE CLEAR AREA SHALL BE LOCATED WHOLLY OUTSIDE THE VEHICLE TRAVEL LANES, INCLUDING BICYCLE LANES, THAT RUN PARALLEL TO THE CROSSWALK.
6. WHERE THE CURB RAMP LENGTH MUST EXCEED 15 FEET TO ACHIEVE 8.3% RUNNING SLOPE, THE RAMP LENGTH SHALL EXTEND AT LEAST 15 FEET AND MAY HAVE A RUNNING SLOPE GREATER THAN 8.3%.
7. AT A SIGNALIZED INTERSECTION, CROSS SLOPE OF PEDESTRIAN CROSSING SHALL BE NO MORE THAN 5.0%.
8. AT A STOP OR YIELD CONTROLLED APPROACH, CROSS SLOPE OF A PEDESTRIAN CROSSING SHALL BE NO MORE THAN 2.1%.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

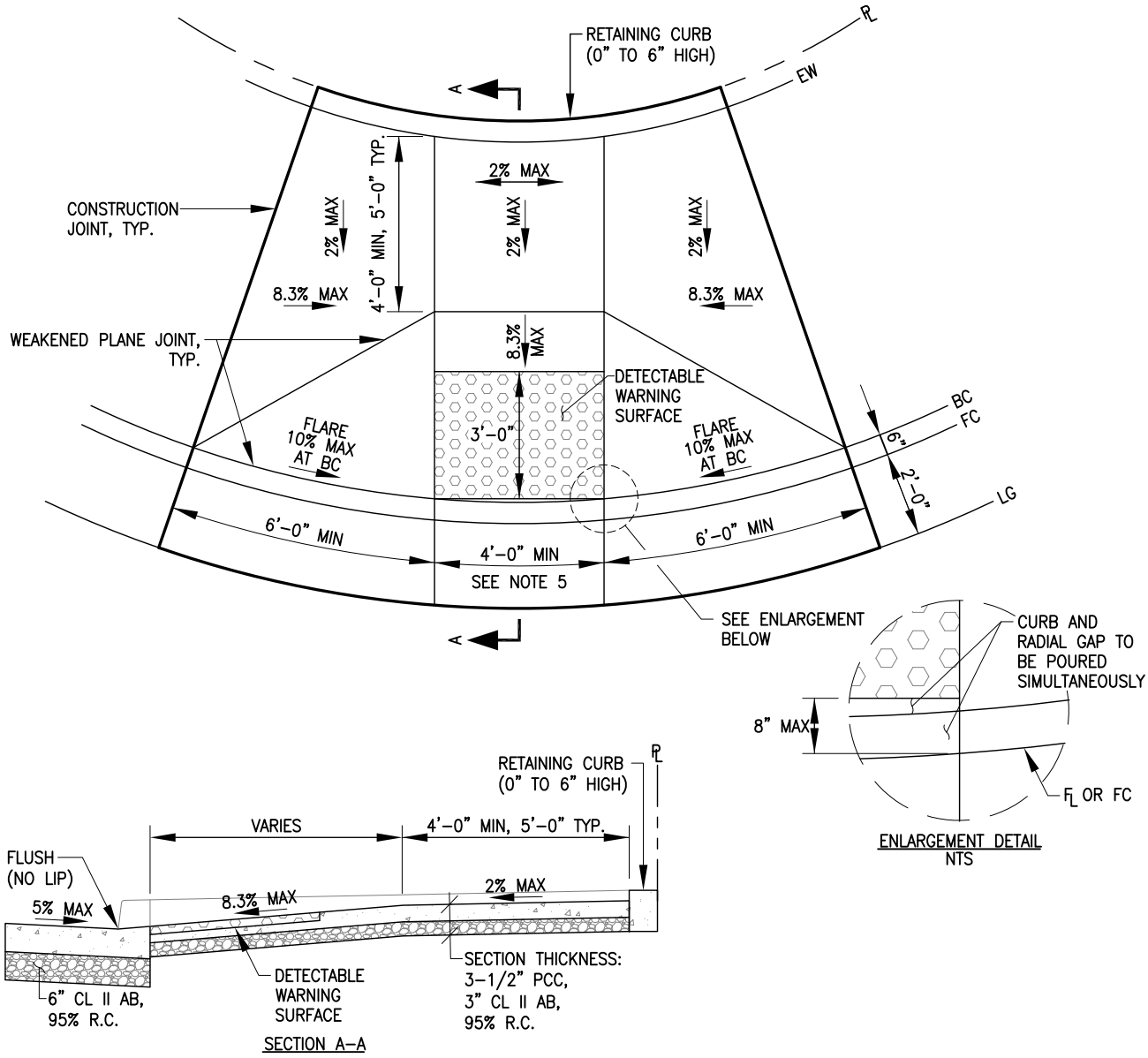
AMY OLAY
PUBLIC WORKS DIRECTOR

CASE A CURB RAMP

NTS

DETAIL NO.

C–5



NOTES:

1. UNLESS OTHERWISE SHOWN, ALL JOINTS SHALL BE WEAKENED PLANE JOINTS 1/4" WIDE, 2" DEEP.
2. ALL SLOPED SURFACES SHALL HAVE LIGHT BROOM FINISH FOR MARKED CONTRAST FROM SIDEWALK FINISH.
3. DETECTABLE WARNING SURFACE SHALL BE DETECTABLE WARNING ADA-2 PAVERS MANUFACTURED BY WAUSAU TILE, COLOR A-60, AND SHALL BE PLACED IN A DRY SET PROCESS PER THE MANUFACTURER'S INSTRUCTION.
4. DETECTABLE WARNING SURFACE SHALL BE ALIGNED IN COMPLIANCE WITH PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG).
5. PROVIDE CLEAR SPACE 4'X4' MINIMUM BEYOND THE BOTTOM GRADE BREAK OF THE PERPENDICULAR CURB RAMP RUN AND WITHIN THE WIDTH OF THE CROSSWALK. THE CLEAR AREA SHALL BE LOCATED WHOLLY OUTSIDE THE VEHICLE TRAVEL LANES, INCLUDING BICYCLE LANES, THAT RUN PARALLEL TO THE CROSSWALK.
6. WHERE THE CURB RAMP LENGTH MUST EXCEED 15 FEET TO ACHIEVE 8.3% RUNNING SLOPE, THE RAMP LENGTH SHALL EXTEND AT LEAST 15 FEET AND MAY HAVE A RUNNING SLOPE GREATER THAN 8.3%.
7. AT A SIGNALIZED INTERSECTION, CROSS SLOPE OF PEDESTRIAN CROSSING SHALL BE NO MORE THAN 5.0%.
8. AT A STOP OR YIELD CONTROLLED APPROACH, CROSS SLOPE OF A PEDESTRIAN CROSSING SHALL BE NO MORE THAN 2.1%.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

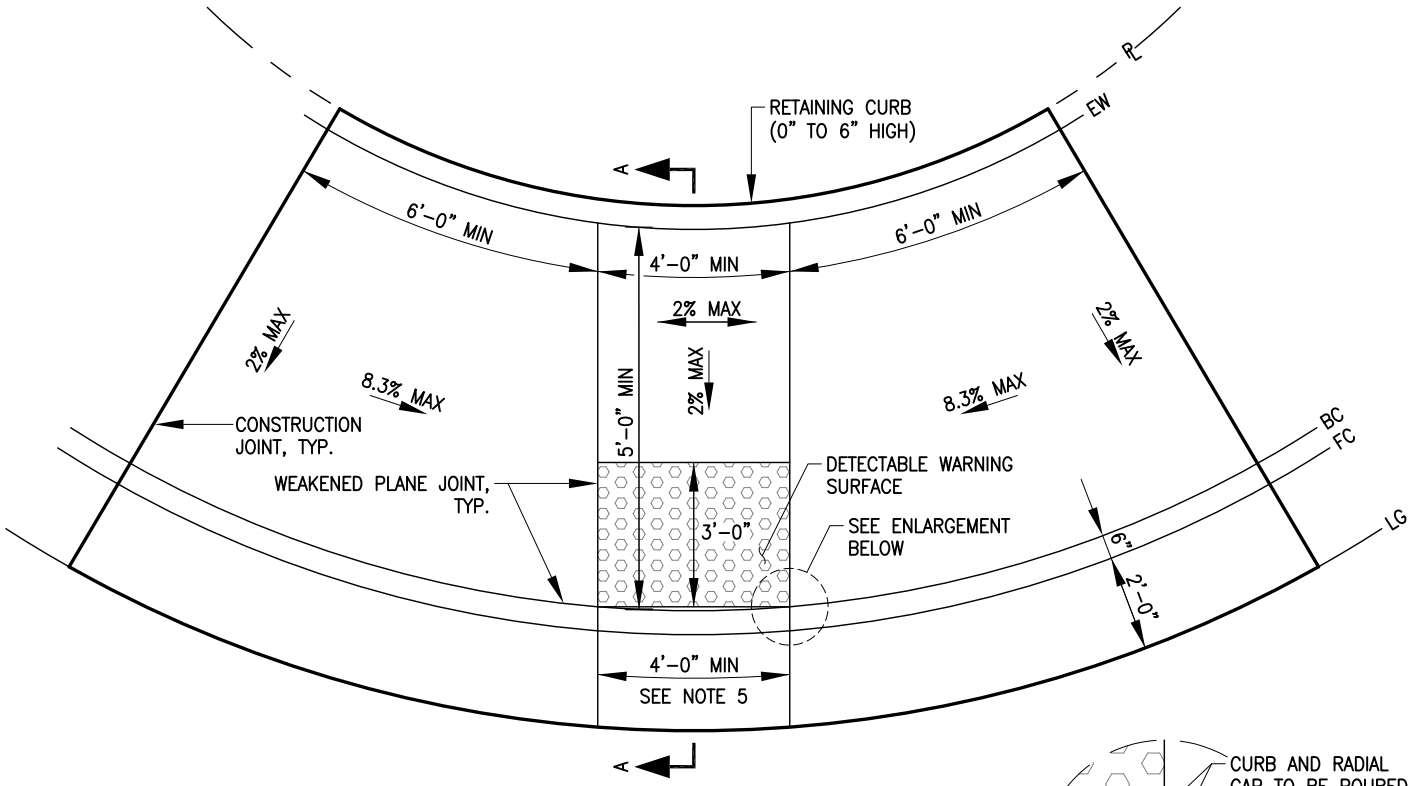
AMY OLAY
PUBLIC WORKS DIRECTOR

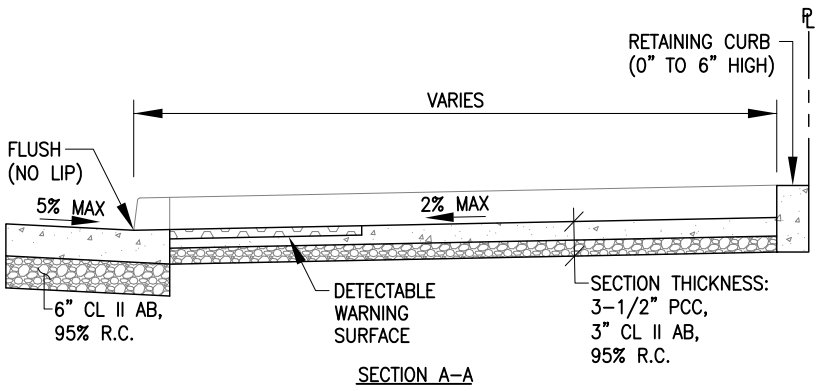
CASE B CURB RAMP

NTS

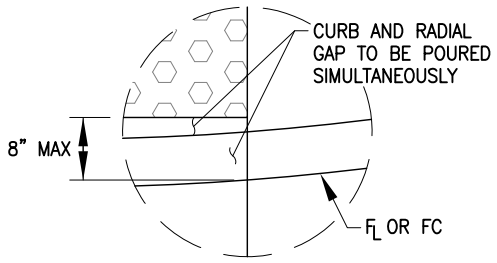
DETAIL NO.

C-6





SECTION A–A



ENLARGEMENT DETAIL
NTS

NOTES:

1. UNLESS OTHERWISE SHOWN, ALL JOINTS SHALL BE WEAKENED PLANE JOINTS 1/4" WIDE, 2" DEEP.
2. ALL SLOPED SURFACES SHALL HAVE LIGHT BROOM FINISH FOR MARKED CONTRAST FROM SIDEWALK FINISH.
3. DETECTABLE WARNING SURFACE SHALL BE DETECTABLE WARNING ADA–2 PAVERS MANUFACTURED BY WAUSAU TILE, COLOR A–60, AND SHALL BE PLACED IN A DRY SET PROCESS PER THE MANUFACTURER'S INSTRUCTION.
4. DETECTABLE WARNING SURFACE SHALL BE ALIGNED IN COMPLIANCE WITH PUBLIC RIGHT–OF–WAY ACCESSIBILITY GUIDELINES (PROWAG).
5. PROVIDE CLEAR SPACE 4'X4' MINIMUM BEYOND THE BOTTOM GRADE BREAK OF THE PERPENDICULAR CURB RAMP RUN AND WITHIN THE WIDTH OF THE CROSSWALK. THE CLEAR AREA SHALL BE LOCATED WHOLLY OUTSIDE THE VEHICLE TRAVEL LANES, INCLUDING BICYCLE LANES, THAT RUN PARALLEL TO THE CROSSWALK.
6. WHERE THE CURB RAMP LENGTH MUST EXCEED 15 FEET TO ACHIEVE 8.3% RUNNING SLOPE, THE RAMP LENGTH SHALL EXTEND AT LEAST 15 FEET AND MAY HAVE A RUNNING SLOPE GREATER THAN 8.3%.
7. AT A SIGNALIZED INTERSECTION, CROSS SLOPE OF PEDESTRIAN CROSSING SHALL BE NO MORE THAN 5.0%.
8. AT A STOP OR YIELD CONTROLLED APPROACH, CROSS SLOPE OF A PEDESTRIAN CROSSING SHALL BE NO MORE THAN 2.1%.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

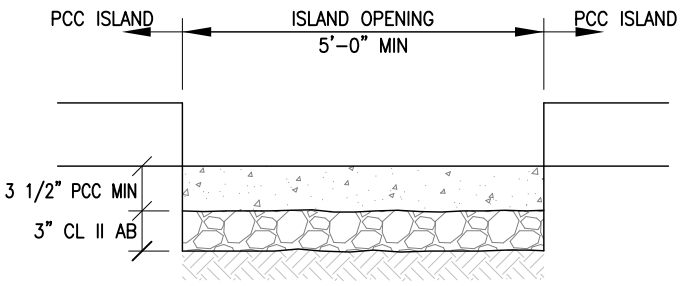
AO

AMY OLAY
PUBLIC WORKS DIRECTOR

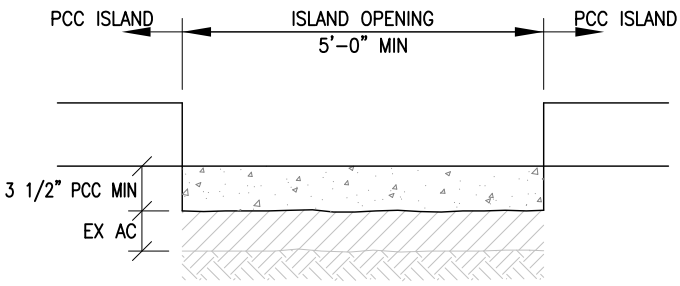
CASE C CURB RAMP

NTS

DETAIL NO.
C–7

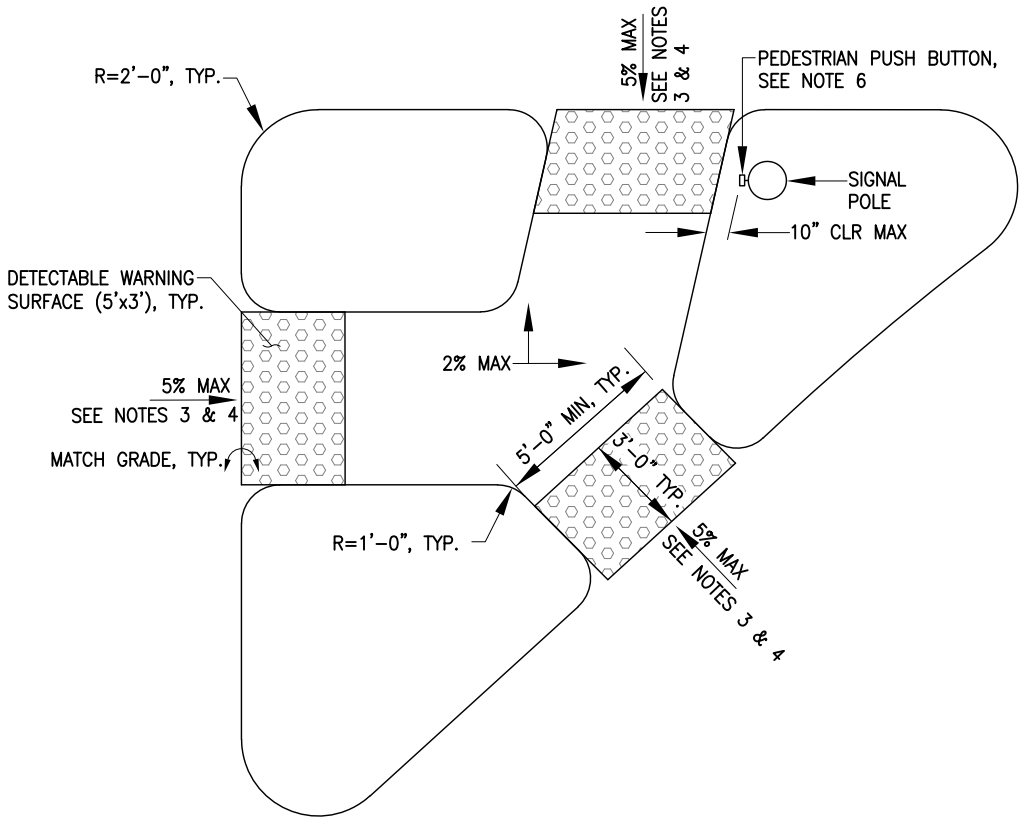


CONCRETE AND AGGREGATE BASE SECTION
ON-GRADE



NOTE: GRIND DOWN EX AC 3 1/2" MIN TO ACCOMMODATE NEW PCC PAVEMENT.

CONCRETE SECTION
ON EX AC



NOTES:

1. DETECTABLE WARNING SURFACE SHALL BE DETECTABLE WARNING ADA-2 PAVERS MANUFACTURED BY WAUSAU TILE, COLOR A-60, AND SHALL BE PLACED IN A DRY SET PROCESS PER THE MANUFACTURER'S INSTRUCTIONS.
2. DETECTABLE WARNING SURFACE SHALL BE ALIGNED IN COMPLIANCE WITH PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG).
3. AT A SIGNALIZED INTERSECTION, CROSS SLOPE OF PEDESTRIAN CROSSING SHALL BE NO MORE THAN 5%.
4. CROSS SLOPE OF PEDESTRIAN CROSSING CONTROLLED BY A STOP OR A YIELD SIGN SHALL BE NO MORE THAN 2.1%.
5. ALL CONCRETE SURFACES SHALL BE TROWELED WITH A LIGHT BROOM FINISH.
6. PEDESTRIAN PUSH BUTTON LOCATED ON TRAFFIC ISLAND SHALL BE 36" ABOVE THE ACCESSIBLE SURFACE.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

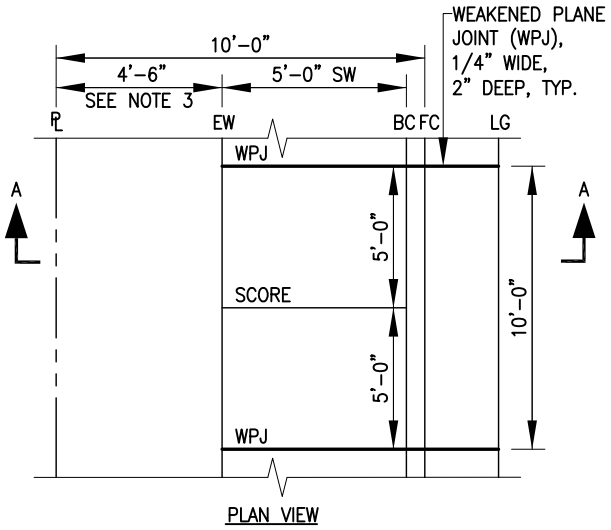
AMY OLAY
PUBLIC WORKS DIRECTOR

TRAFFIC ISLAND WALKWAY DETAILS

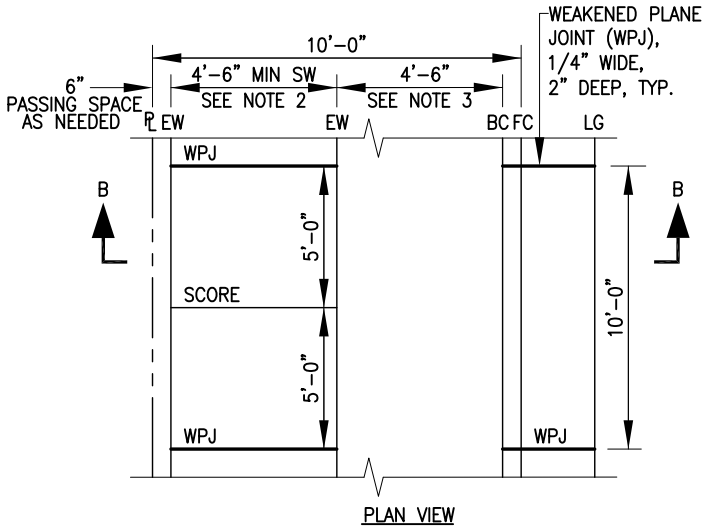
NTS

DETAIL NO.

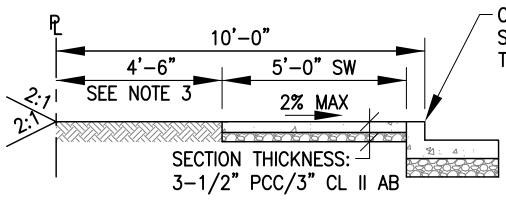
C-8



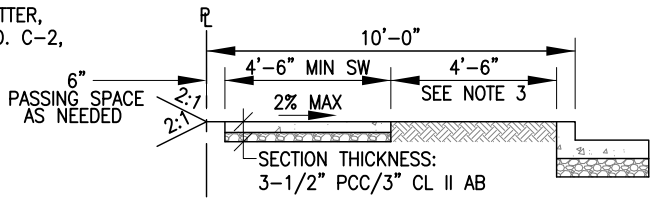
PLAN VIEW



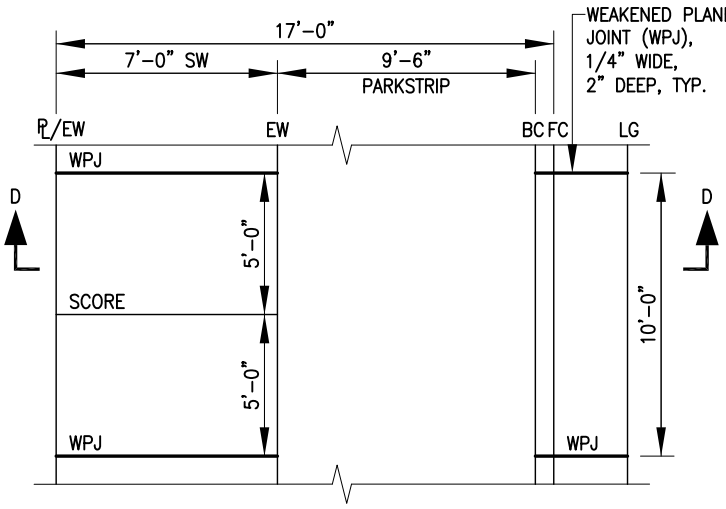
PLAN VIEW



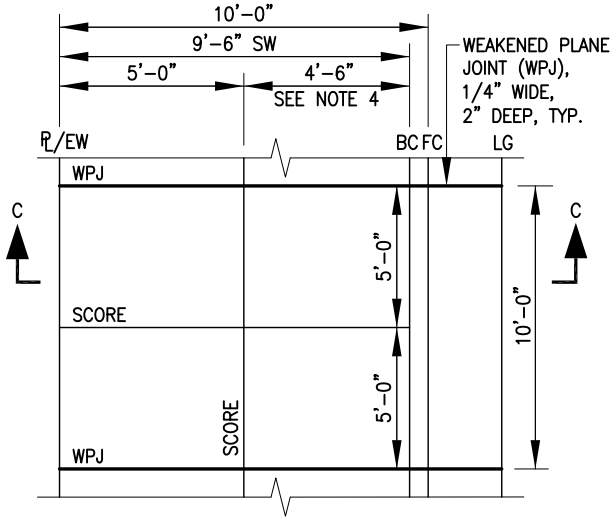
SECTION A–A
RESIDENTIAL ATTACHED SIDEWALK



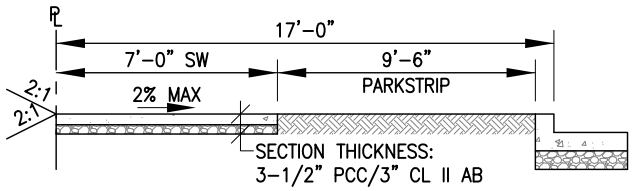
SECTION B–B
RESIDENTIAL DETACHED SIDEWALK



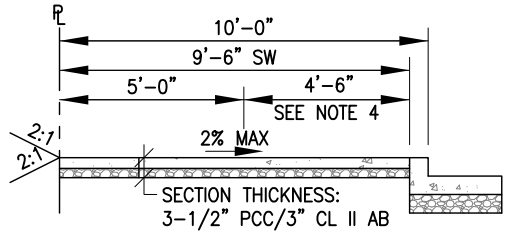
PLAN VIEW



PLAN VIEW



SECTION D–D
BOULEVARD SIDEWALK



SECTION C–C
COMMERCIAL SIDEWALK

SEE NOTES IN DETAIL NO. C-9.2.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

AMY OLAY
PUBLIC WORKS DIRECTOR

SIDEWALK CONFIGURATIONS

NTS

DETAIL NO.

C-9.1

NOTES:

1. WHERE IMPROVEMENTS ARE LOCATED ADJACENT TO STRUCTURES, INSTALL EXPANSION JOINTS.
2. WHERE THE CLEAR WIDTH OF THE SIDEWALK IS LESS THAN 5', SIDEWALK SHALL HAVE A 5'x5' MIN PASSING SPACE AT INTERVALS OF NO GREATER THAN 200'.
3. PARKSTRIP AREA FOR LANDSCAPE, UTILITIES, AND STREET TREES.
4. INSTALL 4'–6"x5' TREE WELLS WITH STREET TREES AND IRRIGATION AT SPACING APPROVED BY THE ENGINEER.
5. COMPACT SUBGRADE TO 90% RELATIVE COMPACTION FOR SIDEWALK.
6. ALL CONCRETE SURFACES SHALL BE TROWELLED WITH A LIGHT BROOM FINISH. GROOVES SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL.
7. SEE DETAILS C–2 AND C–3 FOR CONCRETE CURB, AND CURB AND GUTTER DETAILS.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

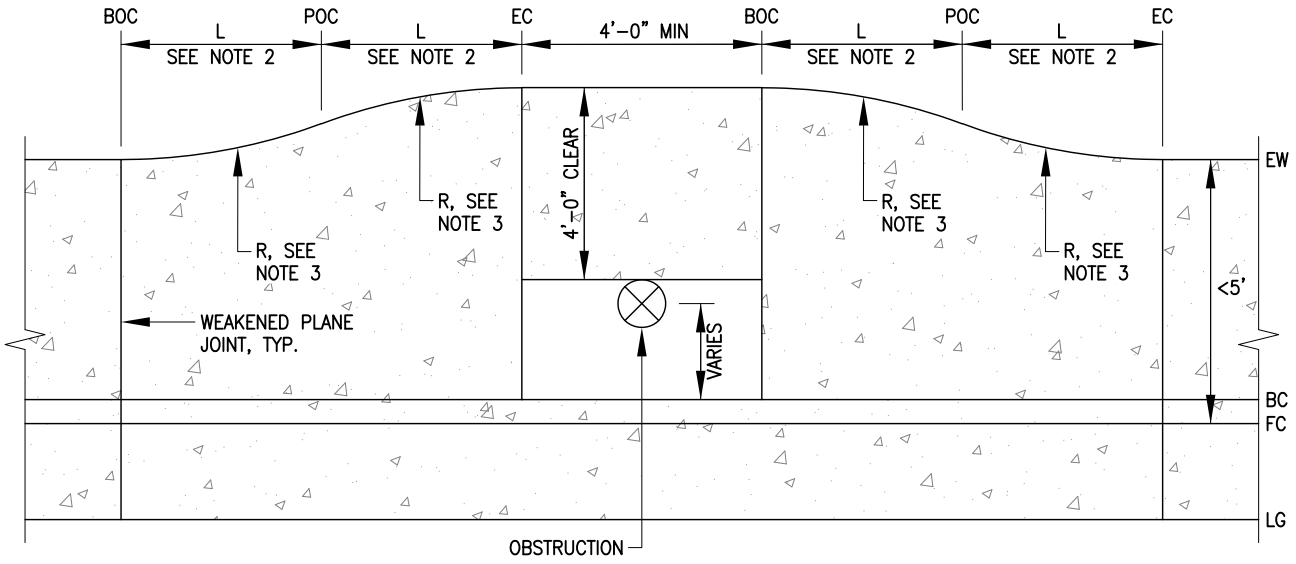
AMY OLAY
PUBLIC WORKS DIRECTOR

SIDEWALK CONFIGURATIONS – NOTES

NTS

DETAIL NO.

C–9.2



NOTES:

1. WIDEN SIDEWALK AS SHOWN WHEN ANY PART OF AN OBSTRUCTION (SUCH AS SIGN POST, ELECTROLIER, TREE WELL, HYDRANT, UTILITY POLE, ETC.) IS WITHIN 4 FEET OF THE BACK OF WALK AND LESS THAN 5 FEET FROM THE FACE OF CURB. PEDESTRIAN EASEMENT DEDICATION IS NECESSARY IF WIDENING EXTENDS BEYOND THE PUBLIC RIGHT OF WAY.
2. L = CURVE LENGTH FOR BACK OF WALK TRANSITION TO AND FROM OBSTRUCTION, TO BE APPROVED BY THE ENGINEER.
3. R = RADIUS OF TRANSITION CURVE SHALL BE MINIMUM OF 5 FEET OR OTHERWISE APPROVED BY THE ENGINEER.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

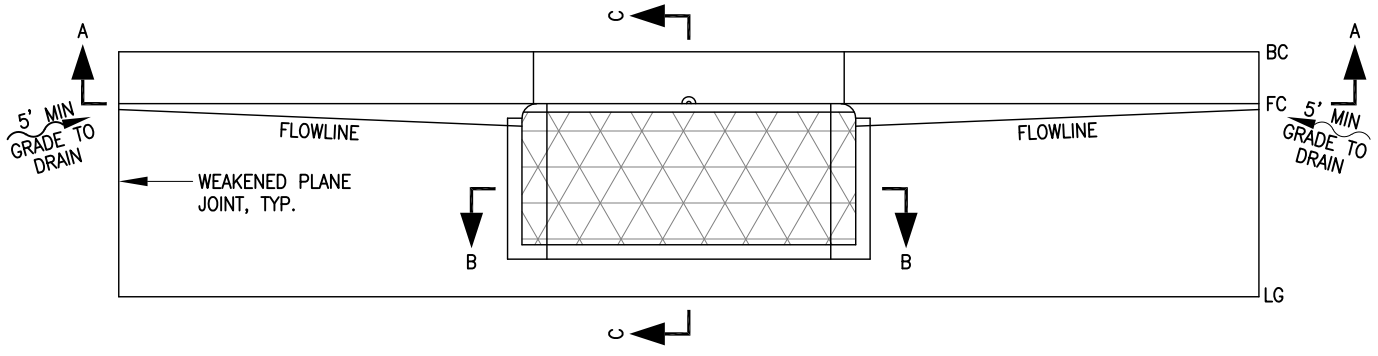
AMY OLAY
PUBLIC WORKS DIRECTOR

SIDEWALK WITH OBSTRUCTIONS

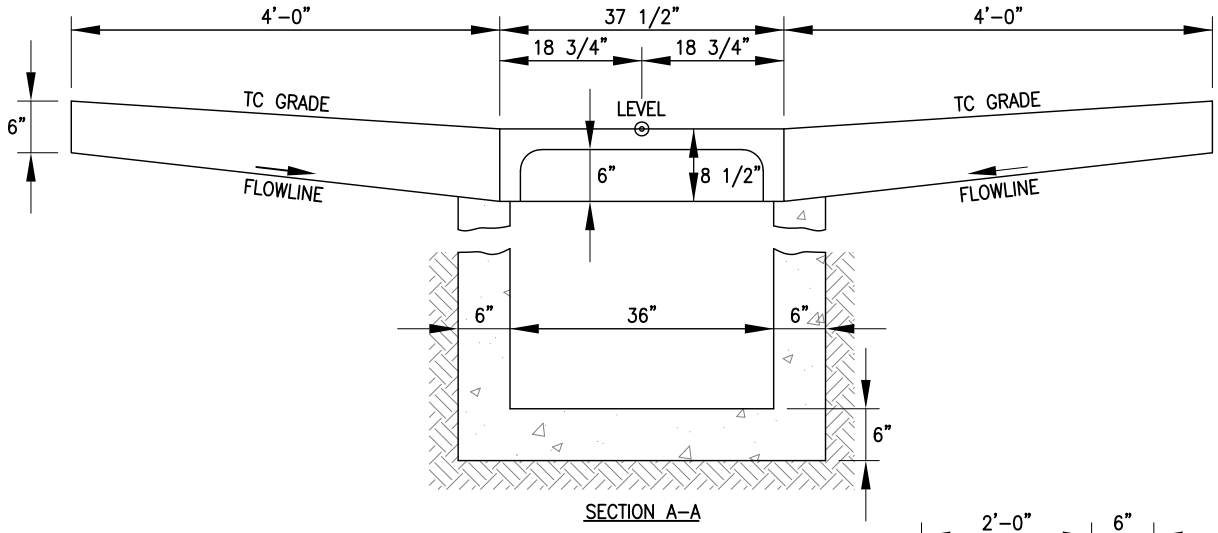
NTS

DETAIL NO.

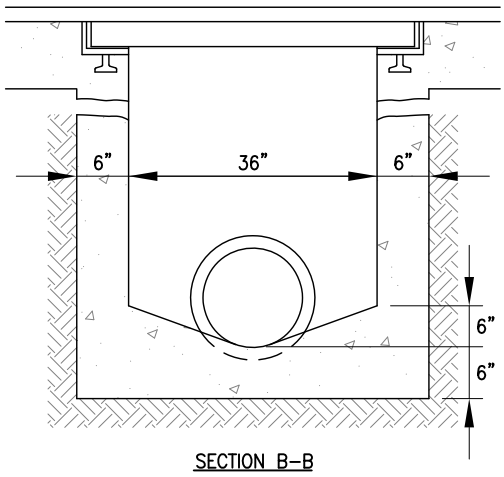
C-10



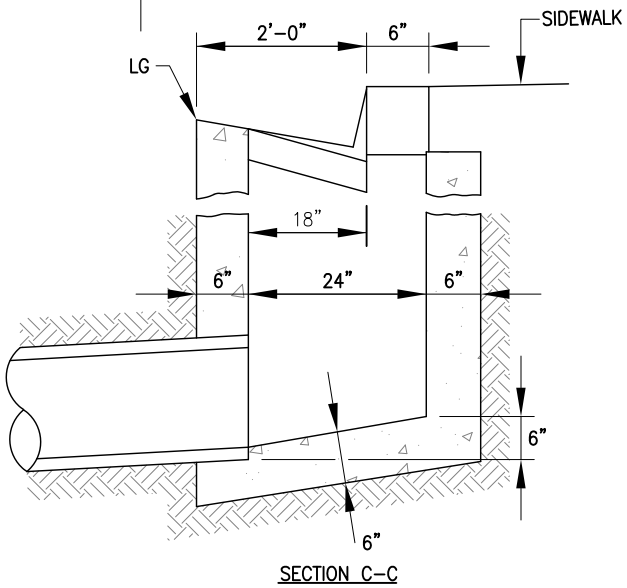
PLAN



SECTION A–A



SECTION B–B



SECTION C–C

NOTES:,

1. INSTALL TRASH CAPTURE SCREEN ASSEMBLY AT LOCATIONS WITH MODERATE TO HIGH TRASH GENERATION AREAS AS DIRECTED BY THE ENGINEER. TRASH CAPTURE SCREEN ASSEMBLY SHALL BE LITTATRAP BY ENVIRONPOD OR APPROVED EQUAL
2. FRAME, GRATE, AND HOOD SHALL BE PER DETAIL NO. C–13.
3. PCC SHALL BE CLASS A CONTAINING APPROX. 564 POUNDS OF PORTLAND CEMENT PER CY AND HAVE A 28–DAY COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 PSI.
4. INSTALL STEPS IN INLETS OVER 3' FEET DEEP.
5. FORM BOTTOM OF INLET TO DRAIN.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

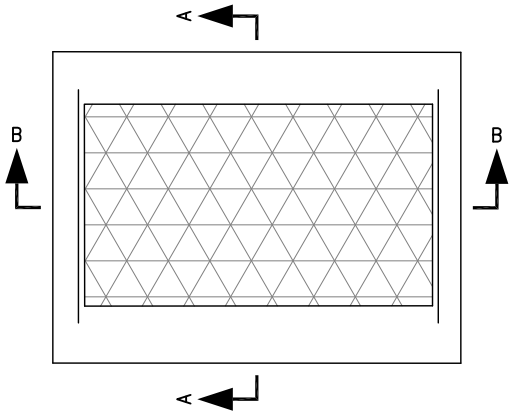
AMY OLAY
PUBLIC WORKS DIRECTOR

DRAINAGE INLET

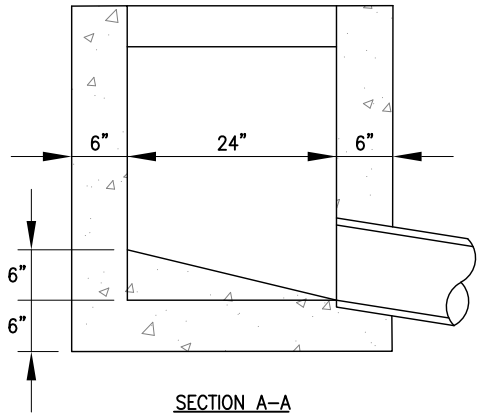
NTS

DETAIL NO.

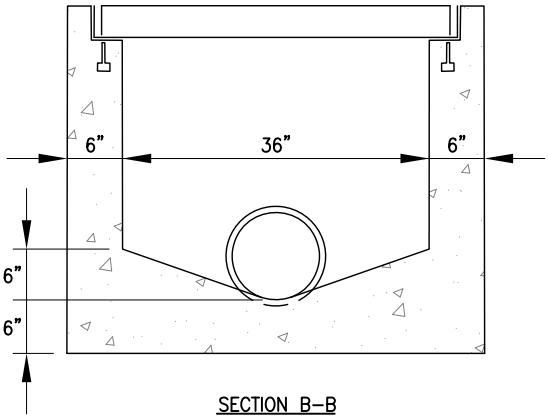
C–11



PLAN



SECTION A–A



SECTION B–B

NOTES:

1. INSTALL TRASH CAPTURE SCREEN ASSEMBLY AT LOCATIONS WITH MODERATE TO HIGH TRASH GENERATION AREAS AS DIRECTED BY THE ENGINEER. TRASH CAPTURE SCREEN ASSEMBLY SHALL BE LITTATRAP BY ENVIRONPOD OR APPROVED EQUAL.
2. FRAME, GRATE, AND HOOD SHALL BE PER DETAIL NO. C–13.
3. PCC SHALL BE CLASS A CONTAINING APPROX. 564 POUNDS OF PORTLAND CEMENT PER CY AND HAVE A 28–DAY COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 PSI.
4. FORM BOTTOM OF INLET TO DRAIN.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

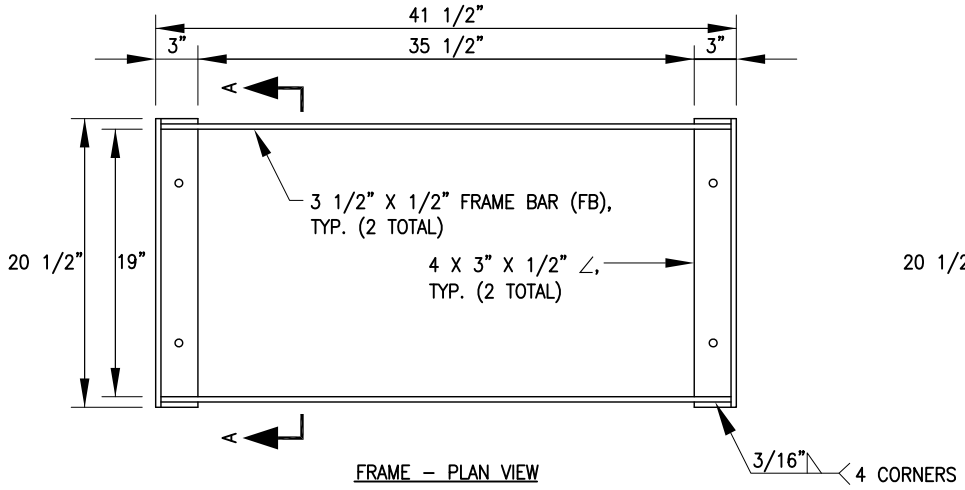
AMY OLAY
PUBLIC WORKS DIRECTOR

FLAT GRATE INLET

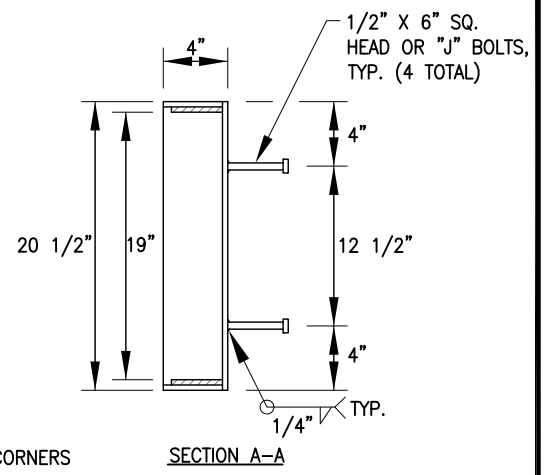
NTS

DETAIL NO.

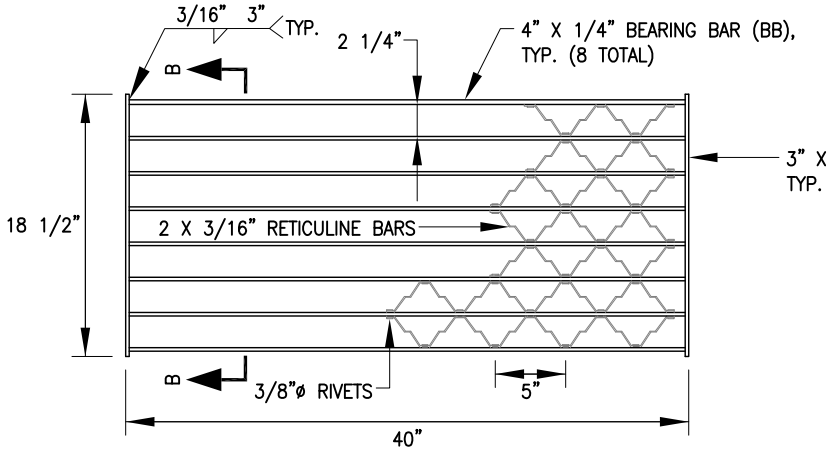
C–12



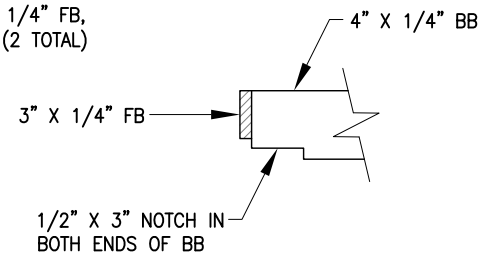
FRAME – PLAN VIEW



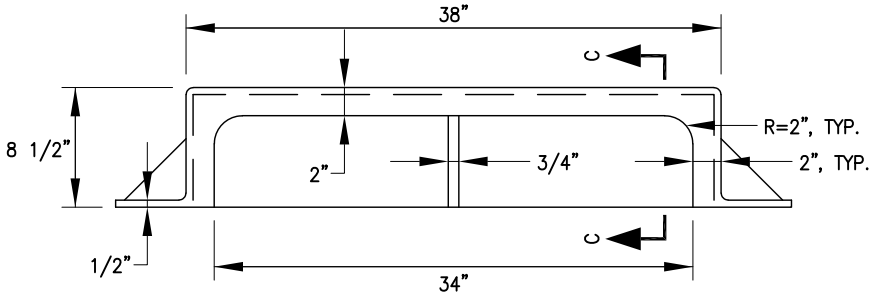
SECTION A–A



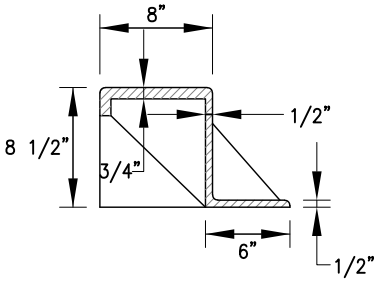
GRATE – PLAN VIEW



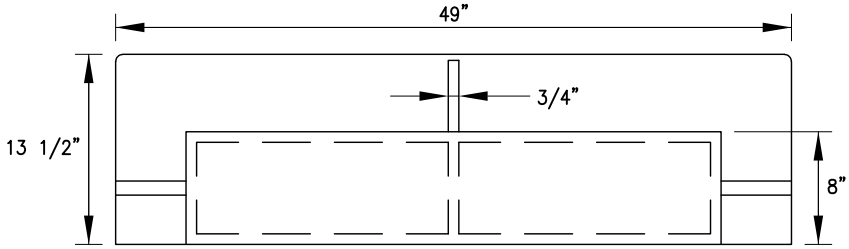
SECTION B–B



HOOD – FRONT VIEW



SECTION C–C



HOOD – PLAN VIEW

NOTES:

1. INSTALL TRASH CAPTURE SCREEN ASSEMBLY AT LOCATIONS WITH MODERATE TO HIGH TRASH GENERATION AREAS AS DIRECTED BY THE ENGINEER. TRASH CAPTURE SCREEN ASSEMBLY SHALL BE LITTATRAP BY ENVIRONPOD OR APPROVED EQUAL.
2. FRAME AND GRATE SHALL BE H–20 TRAFFIC RATED.
3. HOOD SHALL BE 175 LBS. CAST IRON, SBF 1902 BY SOUTH BAY FOUNDRY, OR APPROVED EQUAL.
4. CASTING SHALL BE GIVEN A HOT ASPHALT DIP.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

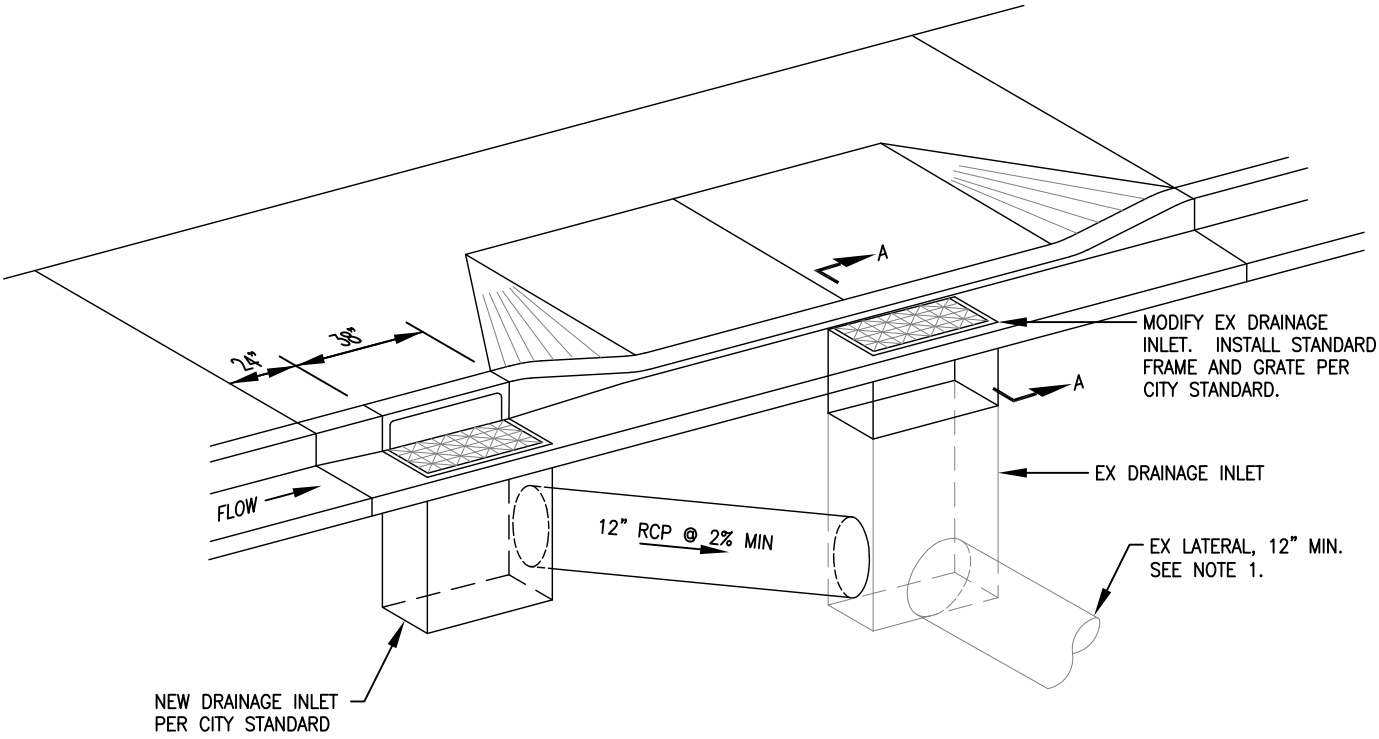
AMY OLAY
PUBLIC WORKS DIRECTOR

FRAME, GRATE, AND HOOD

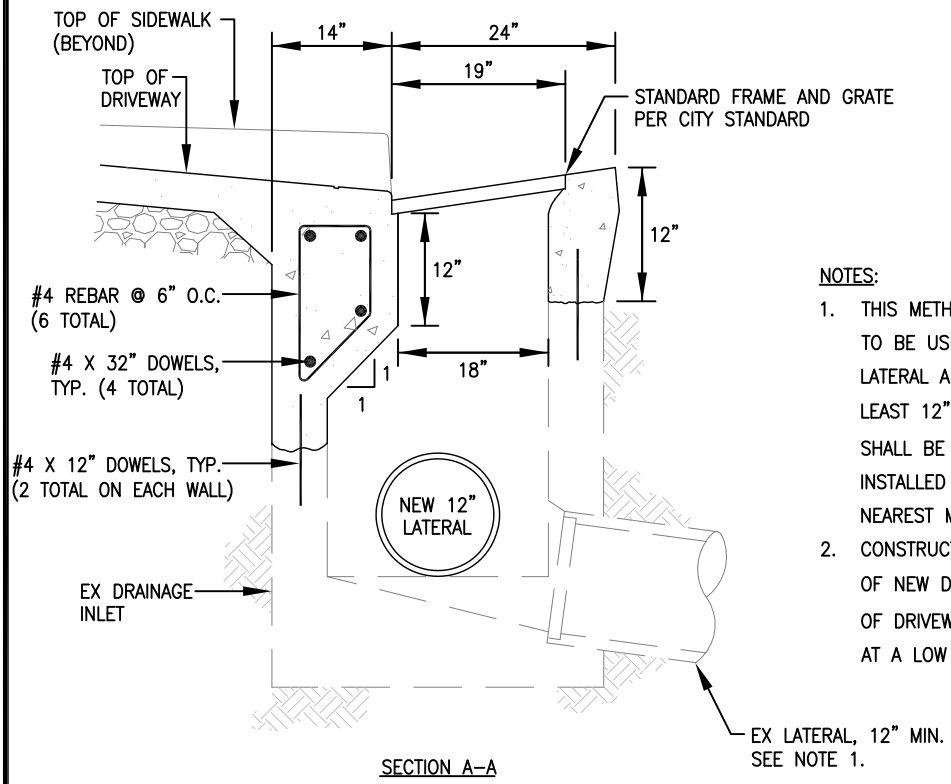
NTS

DETAIL NO.

C–13



EX DRAINAGE INLET IN DRIVEWAY



SECTION A–A

NOTES:

1. THIS METHOD OF CONNECTING A NEW DRAINAGE INLET IS TO BE USED ONLY IF THE EXISTING DRAINAGE INLET AND LATERAL ARE IN GOOD CONDITION AND THE LATERAL IS AT LEAST 12" I.D. OTHERWISE THE EXISTING DRAINAGE INLET SHALL BE REMOVED OR FILLED IN AND A NEW LATERAL INSTALLED FROM THE NEW DRAINAGE INLET TO THE NEAREST MANHOLE.
2. CONSTRUCT NEW DRAINAGE INLET ON THE UPSTREAM SIDE OF NEW DRIVEWAY OR THE "LONGER UPSTREAM RUN" SIDE OF DRIVEWAY IF ORIGINAL DRAINAGE INLET IS CONSTRUCTED AT A LOW POINT.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

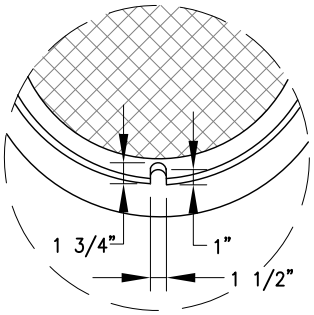
AMY OLAY
PUBLIC WORKS DIRECTOR

ADAPTATION FOR EXISTING DRAINAGE INLET IN NEW DRIVEWAY

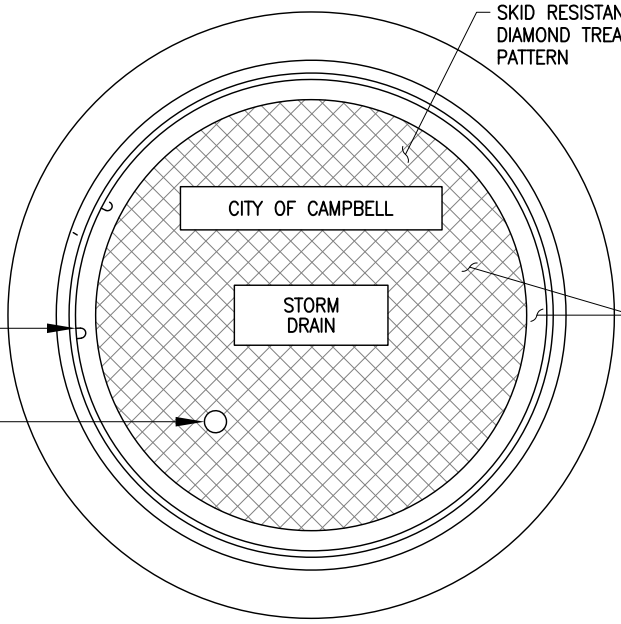
NTS

DETAIL NO.

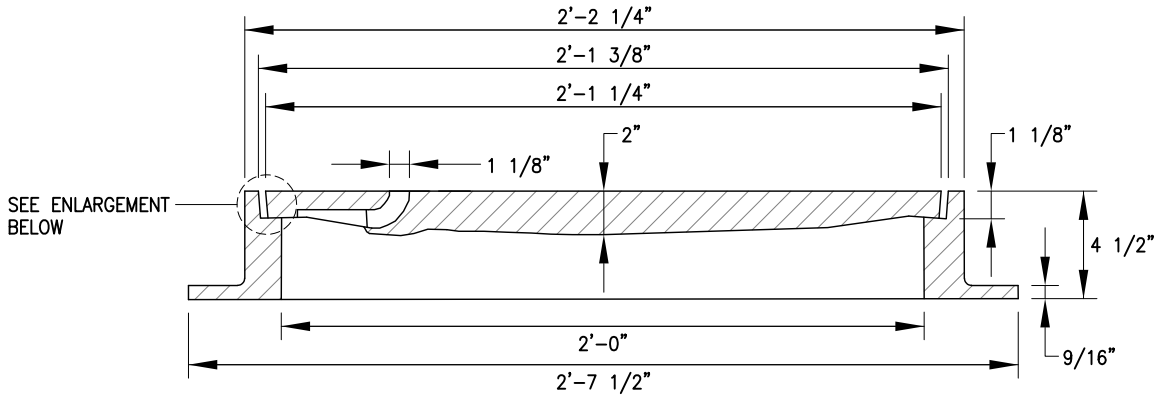
C–14

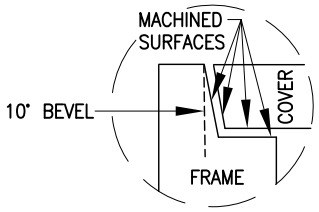


SIDE PRY HOLE DETAIL
NTS

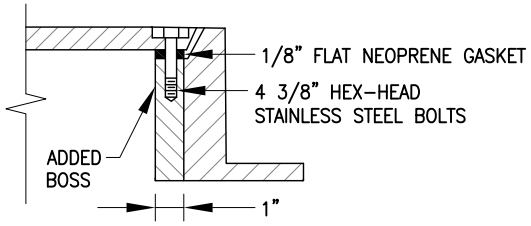


SET WEIGHT	
FRAME	125 LBS
COVER	165 LBS
TOTAL	290 LBS





ENLARGEMENT DETAIL
NTS



BOLT DOWN DETAIL – SEE NOTE 3
NTS

NOTES:

1. SEE TABLE FOR MINIMUM SET WEIGHT.
2. CAST IRON SHALL BE ASTM A–48, CLASS 35B.
3. WHERE BOLT DOWN COVERS ARE CALLED FOR ON THE PLANS, ADD BOSSES TO FRAME (4 EA. @ 90°), SEE DETAIL.
4. MANUFACTURER SHALL CERTIFY MATERIAL, WEIGHT, AND DIMENSIONS.
5. MANUFACTURER TO CERTIFY THAT FRAME AND COVER MEET ALL LOAD REQUIREMENTS FOR H–20 HIGHWAY LOADING.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

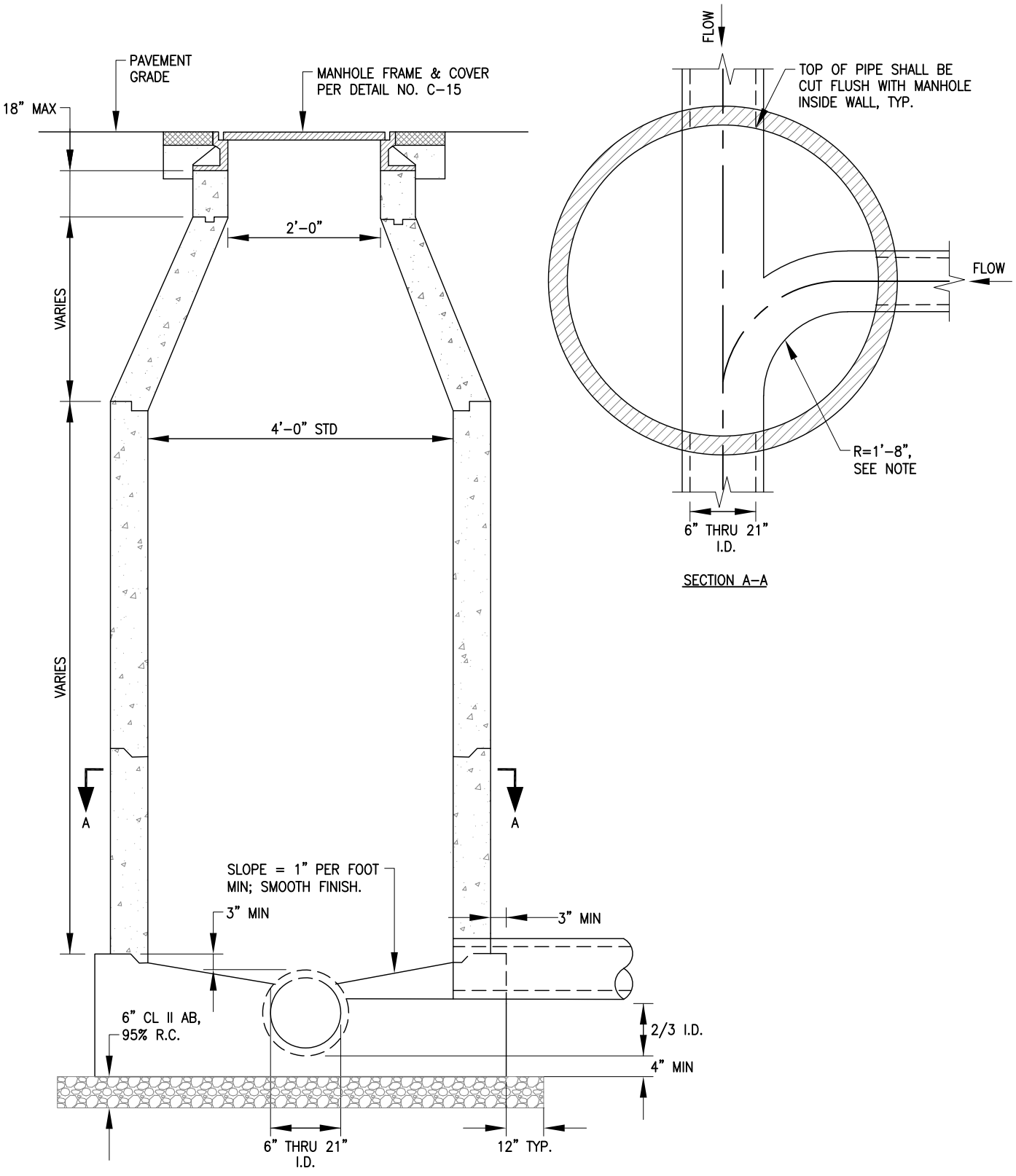
AO

AMY OLAY
PUBLIC WORKS DIRECTOR

MANHOLE FRAME & COVER

NTS

DETAIL NO.
C–15



NOTE: FOR CHANNELIZATION OF INTERCEPTING LINES, PROVIDE SMOOTH TRANSITION WITH RADIUS (R) TOWARDS DOWNSTREAM FLOW OF MAIN.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

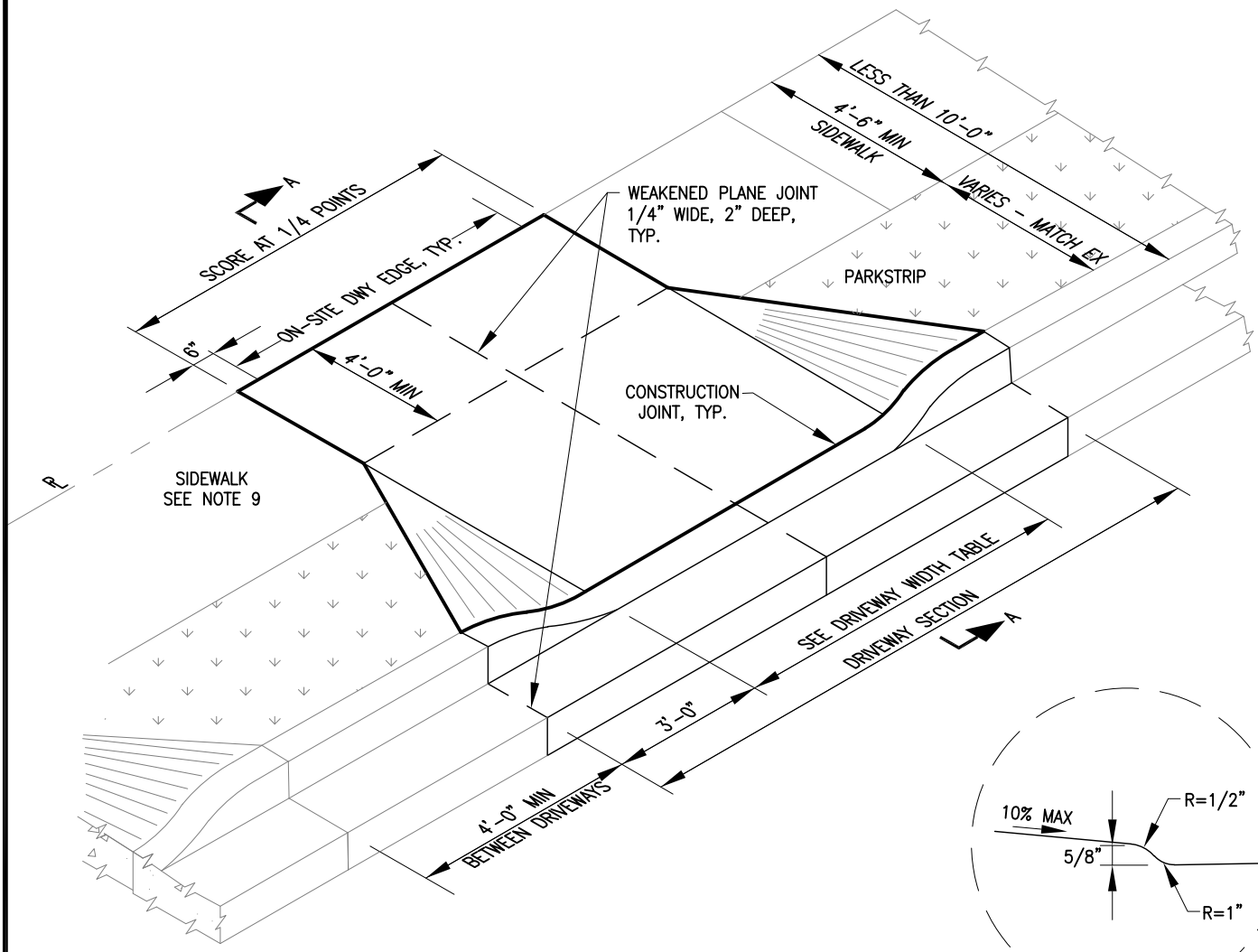
AMY OLAY
PUBLIC WORKS DIRECTOR

STANDARD MANHOLE 21" DIAMETER & SMALLER PIPE

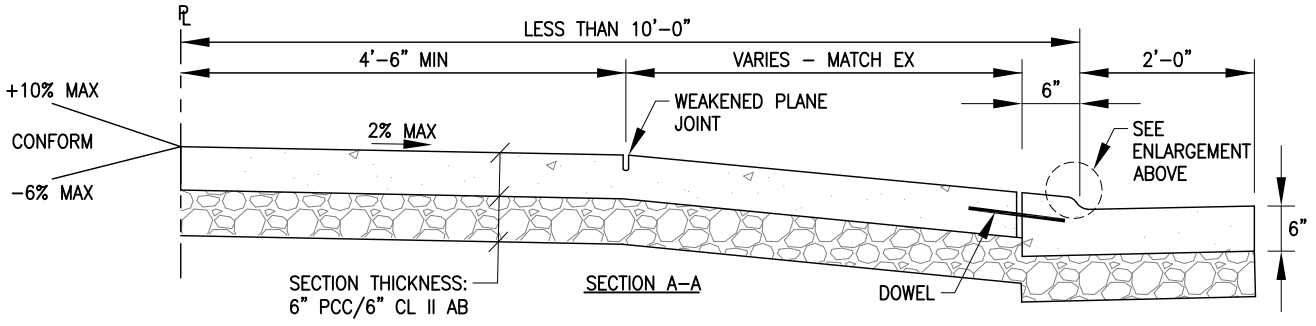
NTS

DETAIL NO.

C-16



ENLARGEMENT DETAIL
NTS



SEE NOTES IN DETAIL NO. C-17.2.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

AMY OLAY
PUBLIC WORKS DIRECTOR

RESIDENTIAL DRIVEWAY (DETACHED SIDEWALK A)

NTS

DETAIL NO.

C-17.1

NOTES:

1. PCC SHALL BE CLASS A (CONCRETE SHALL CONTAIN APPROX. 564 LBS OF PORTLAND CONCRETE PER CY AND HAVE A 28-DAY COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 PSI).
2. IF DRIVEWAY AND CURB AND GUTTER ARE POURED SEPARATELY, DOWEL GRADE 60, #4 REBAR INTO IMPROVEMENTS WITH 6" EMBEDMENT AT 4' INTERVALS AS SHOWN (REBAR TO BE BENT DOWN AND COVERED UNTIL USED).
3. SCORE MARKS SHALL NOT EXCEED 4'-0" O.C.; INSTALL EXPANSION JOINT AT EVERY OTHER SCORE MARK.
4. DRIVEWAY APPROACHES (EXCEPT SINGLE FAMILY) SHALL HAVE A 6"x6"x10/10 WELDED WIRE FABRIC 3" ABOVE BOTTOM OF CONCRETE.
5. DOWEL ALL NEW CONCRETE IMPROVEMENTS TO EXISTING CONCRETE IMPROVEMENTS WITH #4 REBAR AT 12" INTERVALS AND 6" EMBEDMENT.
6. AT LOCATIONS WHERE NEW SIDEWALK ENDS AND MEETS AN EXISTING SIDEWALK, THE NEW SIDEWALK SHALL TRANSITION TO MEET THE EXISTING SIDEWALK AS DETERMINED BY THE ENGINEER.
7. ALL CONCRETE SURFACES SHALL BE TROWELLED WITH A LIGHT BROOM FINISH. GROOVES SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL.
8. COMPACT SUBGRADE TO 95% RELATIVE COMPACTION.
9. INSTALL DETECTABLE WARNING SURFACES ON BOTH SIDES OF DRIVEWAYS THAT ARE CONTROLLED BY YIELD, STOP CONTROL DEVICES, OR TRAFFIC SIGNALS. DETECTABLE WARNING SURFACES SHALL EXTEND 24" MINIMUM IN THE DIRECTION OF PEDESTRIAN TRAVEL. THE WIDTH OF DETECTABLE WARNING SURFACES SHALL EXTEND THE FULL WIDTH OF THE SIDEWALK.

DRIVEWAY WIDTH TABLE		
	MIN	MAX
SINGLE-FAMILY RESIDENTIAL	12'	25'
MULTI-FAMILY RESIDENTIAL	25'	40'

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

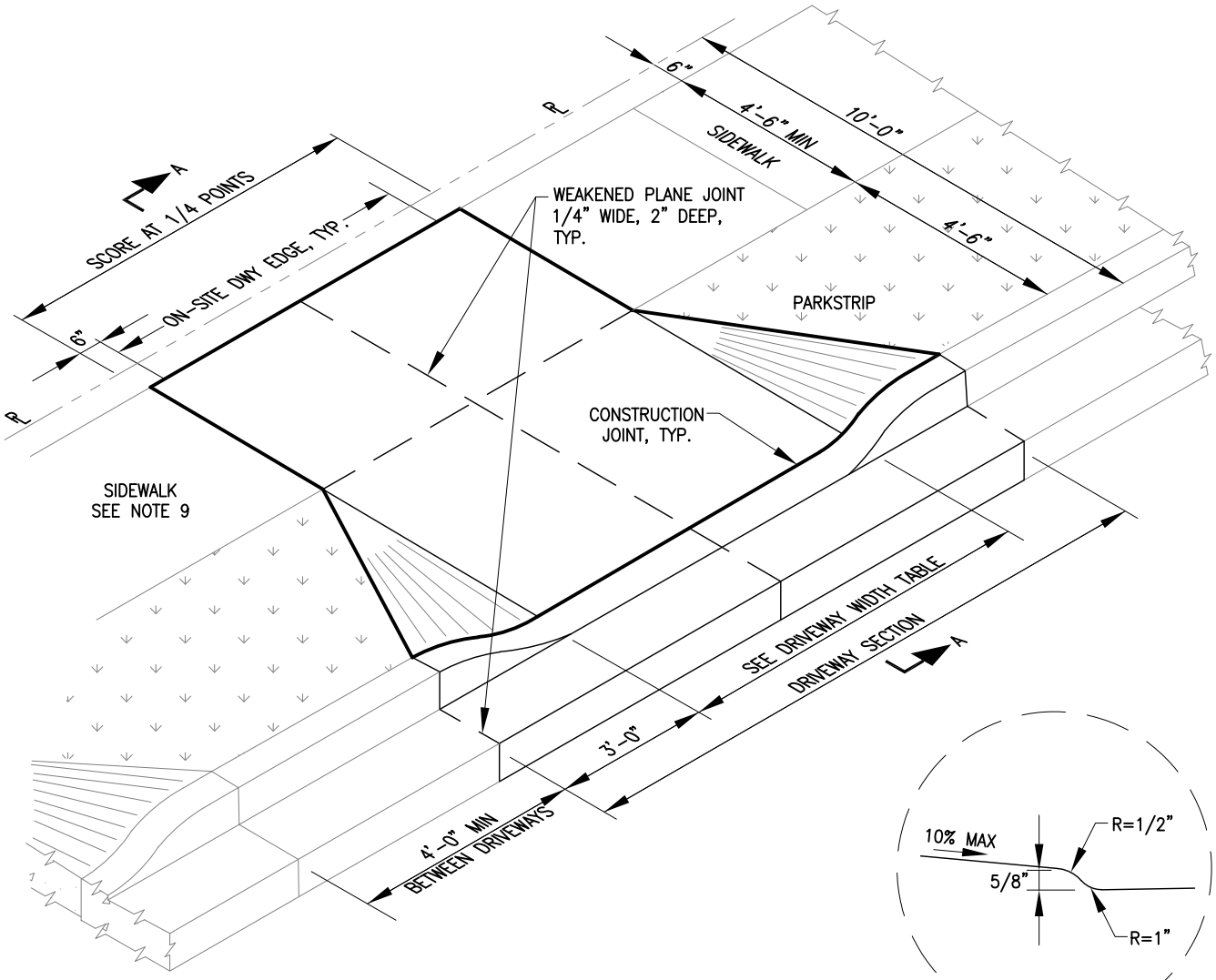
AMY OLAY
PUBLIC WORKS DIRECTOR

RESIDENTIAL DRIVEWAY (DETACHED SIDEWALK A) NOTES

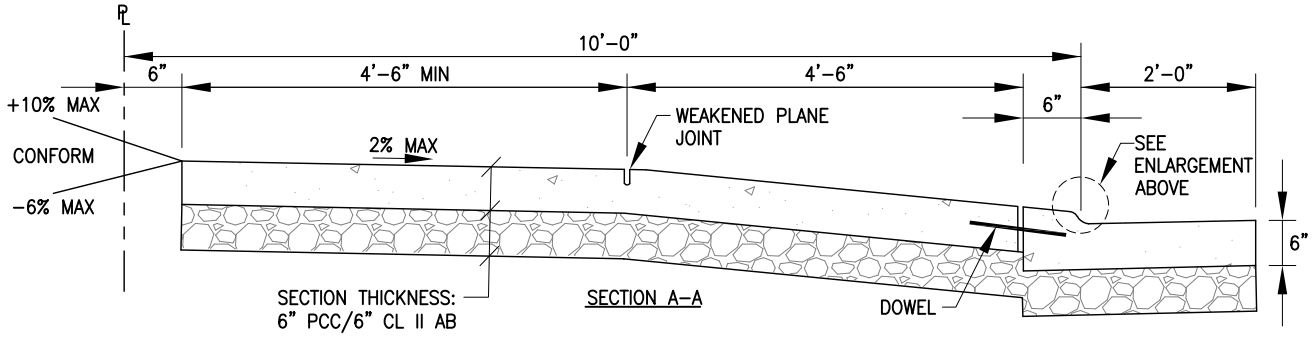
NTS

DETAIL NO.

C-17.2



ENLARGEMENT DETAIL
NTS



SEE NOTES IN DETAIL NO. C-18.2.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

AMY OLAY
PUBLIC WORKS DIRECTOR

RESIDENTIAL DRIVEWAY (DETACHED SIDEWALK B)

NTS

DETAIL NO.

C-18.1

NOTES:

1. PCC SHALL BE CLASS A (CONCRETE SHALL CONTAIN APPROX. 564 LBS OF PORTLAND CONCRETE PER CY AND HAVE A 28-DAY COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 PSI).
2. IF DRIVEWAY AND CURB AND GUTTER ARE POURED SEPARATELY, DOWEL GRADE 60, #4 REBAR INTO IMPROVEMENTS WITH 6" EMBEDMENT AT 4' INTERVALS AS SHOWN (REBAR TO BE BENT DOWN AND COVERED UNTIL USED).
3. SCORE MARKS SHALL NOT EXCEED 4'-0" O.C.; INSTALL EXPANSION JOINT AT EVERY OTHER SCORE MARK.
4. DRIVEWAY APPROACHES (EXCEPT SINGLE FAMILY) SHALL HAVE A 6"x6"x10/10 WELDED WIRE FABRIC 3" ABOVE BOTTOM OF CONCRETE.
5. DOWEL ALL NEW CONCRETE IMPROVEMENTS TO EXISTING CONCRETE IMPROVEMENTS WITH #4 REBAR AT 12" INTERVALS AND 6" EMBEDMENT.
6. AT LOCATIONS WHERE NEW SIDEWALK ENDS AND MEETS AN EXISTING SIDEWALK, THE NEW SIDEWALK SHALL TRANSITION TO MEET THE EXISTING SIDEWALK AS DETERMINED BY THE ENGINEER.
7. ALL CONCRETE SURFACES SHALL BE TROWELLED WITH A LIGHT BROOM FINISH. GROOVES SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL.
8. COMPACT SUBGRADE TO 95% RELATIVE COMPACTION.
9. INSTALL DETECTABLE WARNING SURFACES ON BOTH SIDES OF DRIVEWAYS THAT ARE CONTROLLED BY YIELD, STOP CONTROL DEVICES, OR TRAFFIC SIGNALS. DETECTABLE WARNING SURFACES SHALL EXTEND 24" MINIMUM IN THE DIRECTION OF PEDESTRIAN TRAVEL. THE WIDTH OF DETECTABLE WARNING SURFACES SHALL EXTEND THE FULL WIDTH OF THE SIDEWALK.

DRIVEWAY WIDTH TABLE

	MIN	MAX
SINGLE-FAMILY RESIDENTIAL	12'	25'
MULTI-FAMILY RESIDENTIAL	25'	40'

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

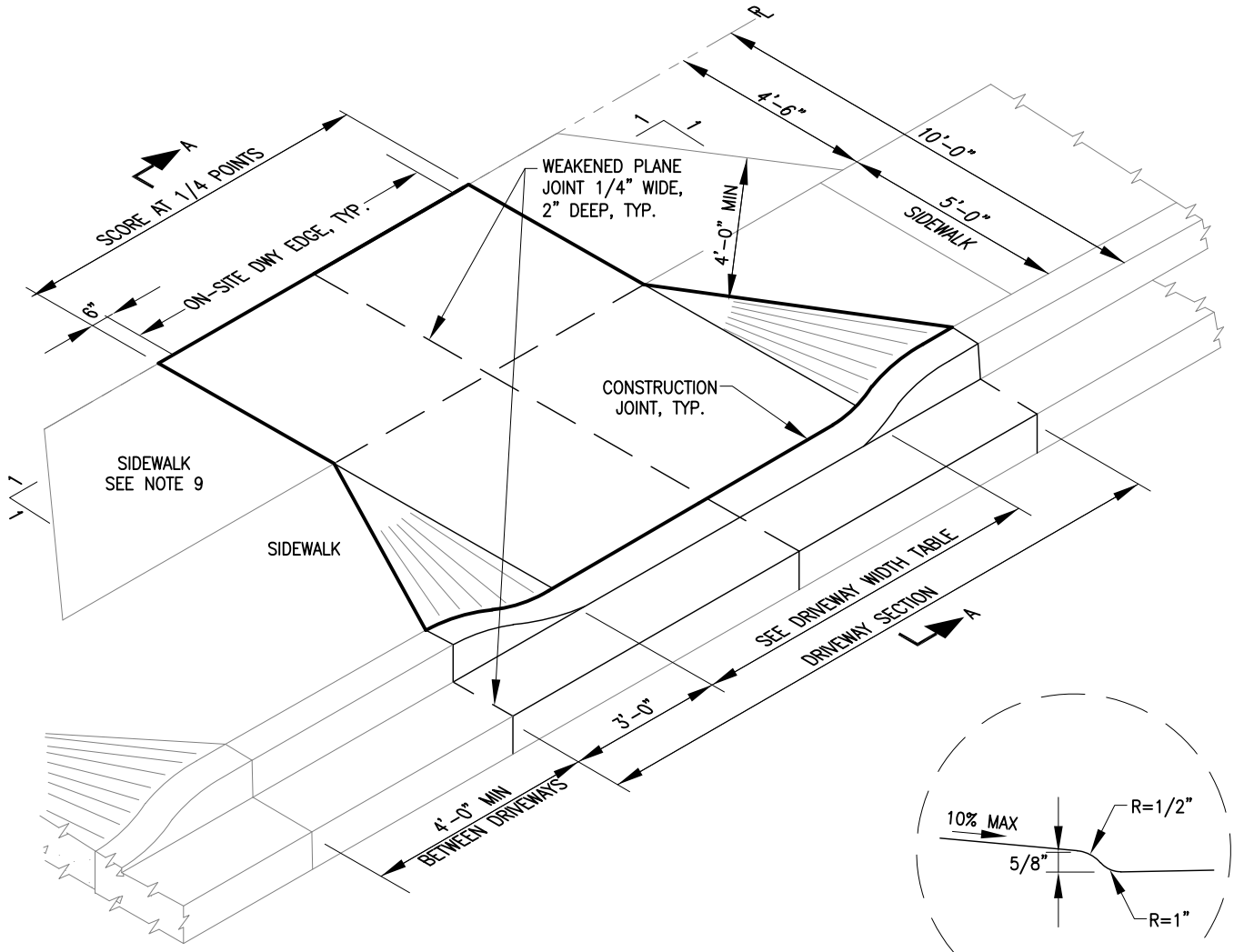
AMY OLAY
PUBLIC WORKS DIRECTOR

RESIDENTIAL DRIVEWAY
(DETACHED SIDEWALK B)
NOTES

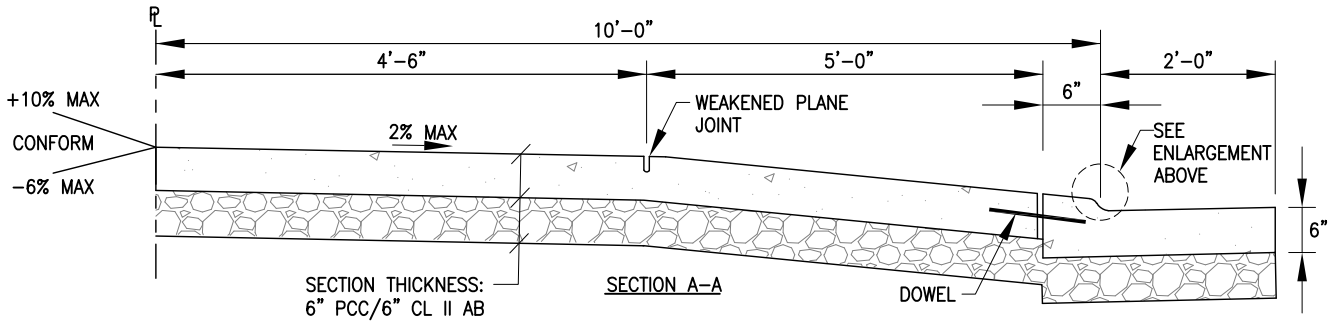
NTS

DETAIL NO.

C-18.2



ENLARGEMENT DETAIL
NTS



SEE NOTES IN DETAIL NO. C-19.2.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

AMY OLAY
PUBLIC WORKS DIRECTOR

RESIDENTIAL DRIVEWAY (ATTACHED SIDEWALK)

NTS

DETAIL NO.

C-19.1

NOTES:

1. PCC SHALL BE CLASS A (CONCRETE SHALL CONTAIN APPROX. 564 LBS OF PORTLAND CONCRETE PER CY AND HAVE A 28-DAY COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 PSI).
2. IF DRIVEWAY AND CURB AND GUTTER ARE POURED SEPARATELY, DOWEL GRADE 60, #4 REBAR INTO IMPROVEMENTS WITH 6" EMBEDMENT AT 4' INTERVALS AS SHOWN (REBAR TO BE BENT DOWN AND COVERED UNTIL USED).
3. SCORE MARKS SHALL NOT EXCEED 4'-0" O.C.; INSTALL EXPANSION JOINT AT EVERY OTHER SCORE MARK.
4. DRIVEWAY APPROACHES (EXCEPT SINGLE FAMILY) SHALL HAVE A 6"x6"x10/10 WELDED WIRE FABRIC 3" ABOVE BOTTOM OF CONCRETE.
5. DOWEL ALL NEW CONCRETE IMPROVEMENTS TO EXISTING CONCRETE IMPROVEMENTS WITH #4 REBAR AT 12" INTERVALS AND 6" EMBEDMENT.
6. AT LOCATIONS WHERE NEW SIDEWALK ENDS AND MEETS AN EXISTING SIDEWALK, THE NEW SIDEWALK SHALL TRANSITION TO MEET THE EXISTING SIDEWALK AS DETERMINED BY THE ENGINEER.
7. ALL CONCRETE SURFACES SHALL BE TROWELLED WITH A LIGHT BROOM FINISH. GROOVES SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL.
8. COMPACT SUBGRADE TO 95% RELATIVE COMPACTION.
9. INSTALL DETECTABLE WARNING SURFACES ON BOTH SIDES OF DRIVEWAYS THAT ARE CONTROLLED BY YIELD, STOP CONTROL DEVICES, OR TRAFFIC SIGNALS. DETECTABLE WARNING SURFACES SHALL EXTEND 24" MINIMUM IN THE DIRECTION OF PEDESTRIAN TRAVEL. THE WIDTH OF DETECTABLE WARNING SURFACES SHALL EXTEND THE FULL WIDTH OF THE SIDEWALK.

DRIVEWAY WIDTH TABLE		
	MIN	MAX
SINGLE-FAMILY RESIDENTIAL	12'	25'
MULTI-FAMILY RESIDENTIAL	25'	40'

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

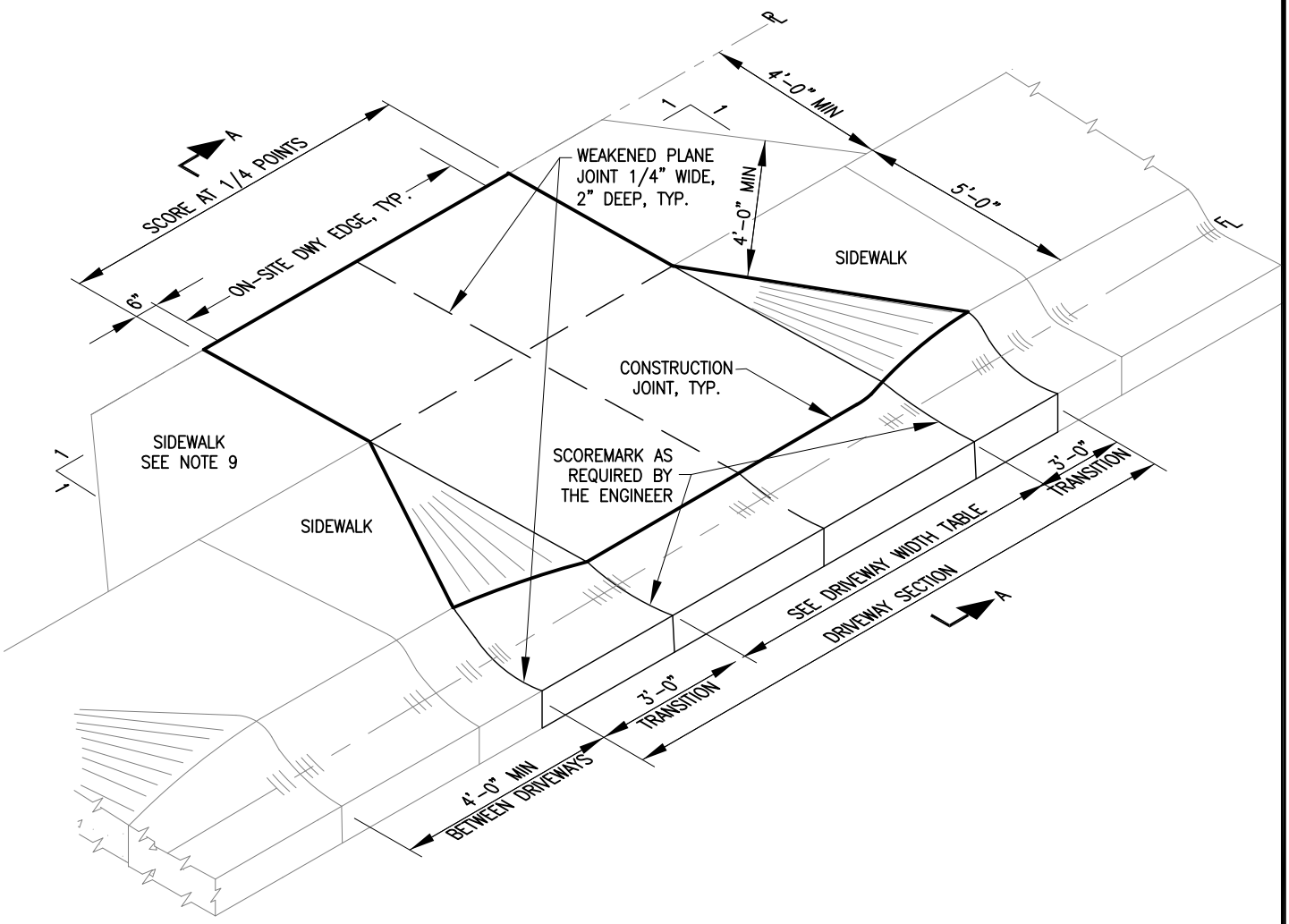
AMY OLAY
PUBLIC WORKS DIRECTOR

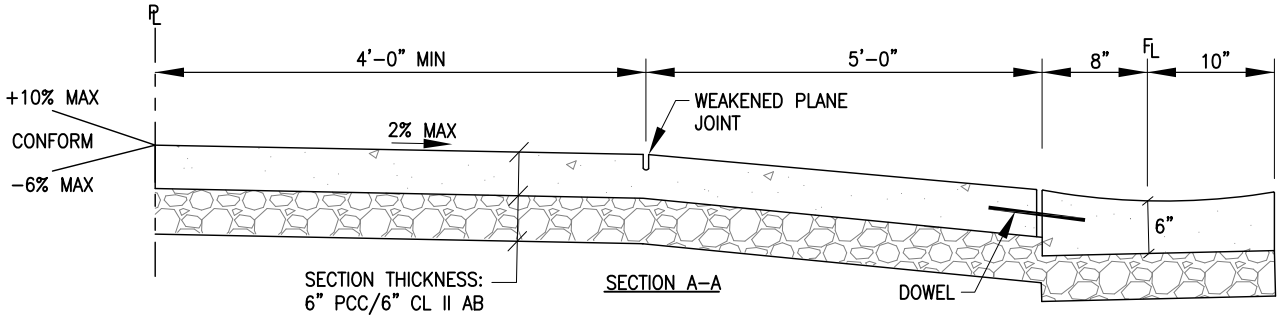
RESIDENTIAL DRIVEWAY (ATTACHED SIDEWALK) NOTES

NTS

DETAIL NO.

C-19.2





SEE NOTES IN DETAIL NO. C-20.2.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AMY OLAY
PUBLIC WORKS DIRECTOR

RESIDENTIAL DRIVEWAY (ROLLED CURB)

NTS

DETAIL NO.

C-20.1

NOTES:

1. PCC SHALL BE CLASS A (CONCRETE SHALL CONTAIN APPROX. 564 LBS OF PORTLAND CONCRETE PER CY AND HAVE A 28-DAY COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 PSI).
2. IF DRIVEWAY AND CURB AND GUTTER ARE POURED SEPARATELY, DOWEL GRADE 60, #4 REBAR INTO IMPROVEMENTS WITH 6" EMBEDMENT AT 4' INTERVALS AS SHOWN (REBAR TO BE BENT DOWN AND COVERED UNTIL USED).
3. SCORE MARKS SHALL NOT EXCEED 4'-0" O.C.; INSTALL EXPANSION JOINT AT EVERY OTHER SCORE MARK.
4. DRIVEWAY APPROACHES (EXCEPT SINGLE FAMILY) SHALL HAVE A 6"x6"x10/10 WELDED WIRE FABRIC 3" ABOVE BOTTOM OF CONCRETE.
5. DOWEL ALL NEW CONCRETE IMPROVEMENTS TO EXISTING CONCRETE IMPROVEMENTS WITH #4 REBAR AT 12" INTERVALS AND 6" EMBEDMENT.
6. AT LOCATIONS WHERE NEW SIDEWALK ENDS AND MEETS AN EXISTING SIDEWALK, THE NEW SIDEWALK SHALL TRANSITION TO MEET THE EXISTING SIDEWALK AS DETERMINED BY THE ENGINEER.
7. ALL CONCRETE SURFACES SHALL BE TROWELLED WITH A LIGHT BROOM FINISH. GROOVES SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL.
8. COMPACT SUBGRADE TO 95% RELATIVE COMPACTION.
9. INSTALL DETECTABLE WARNING SURFACES ON BOTH SIDES OF DRIVEWAYS THAT ARE CONTROLLED BY YIELD, STOP CONTROL DEVICES, OR TRAFFIC SIGNALS. DETECTABLE WARNING SURFACES SHALL EXTEND 24" MINIMUM IN THE DIRECTION OF PEDESTRIAN TRAVEL. THE WIDTH OF DETECTABLE WARNING SURFACES SHALL EXTEND THE FULL WIDTH OF THE SIDEWALK.

DRIVEWAY WIDTH TABLE

	MIN	MAX
SINGLE-FAMILY RESIDENTIAL	12'	25'
MULTI-FAMILY RESIDENTIAL	25'	40'

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

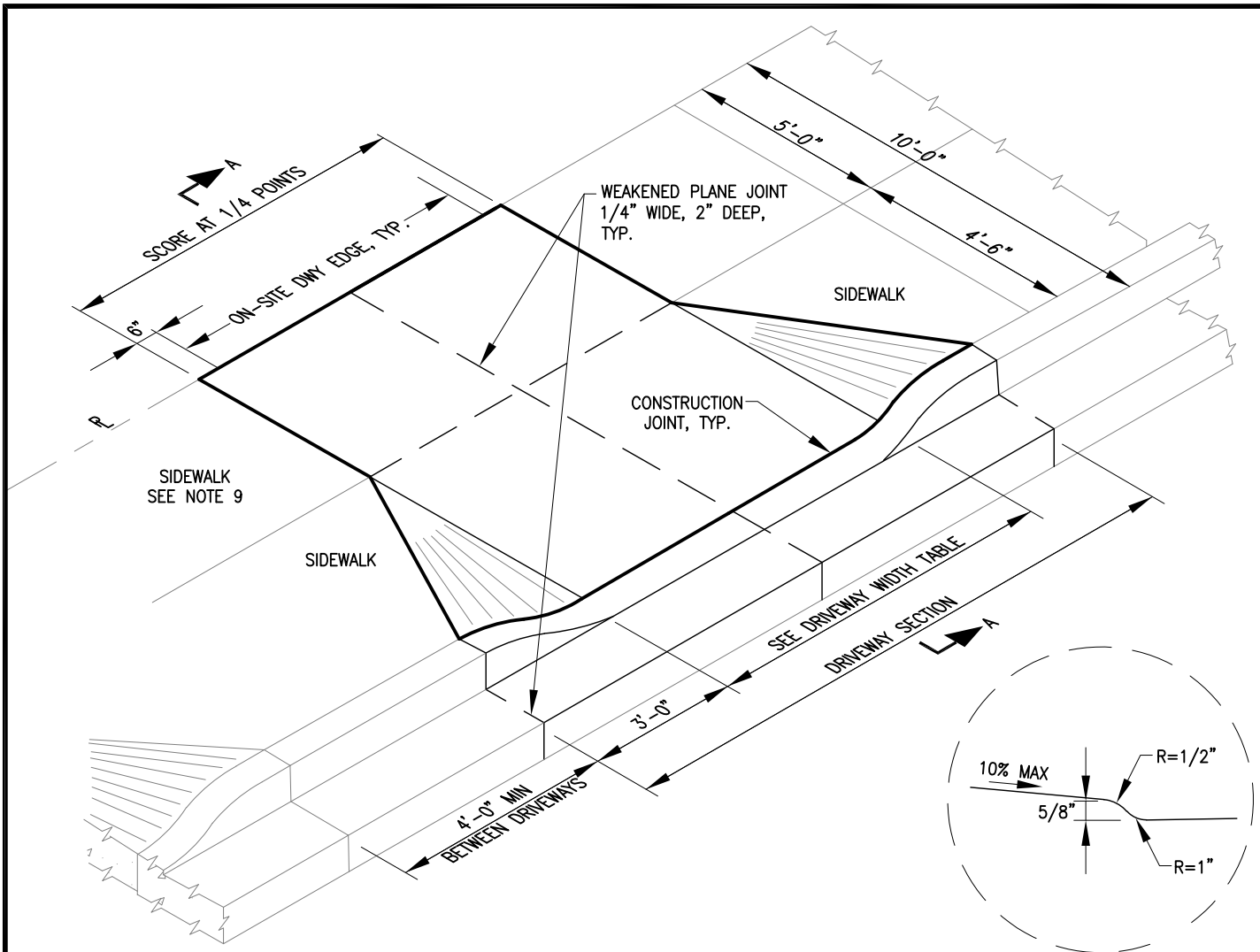
AMY OLAY
PUBLIC WORKS DIRECTOR

RESIDENTIAL DRIVEWAY (ROLLED CURB) NOTES

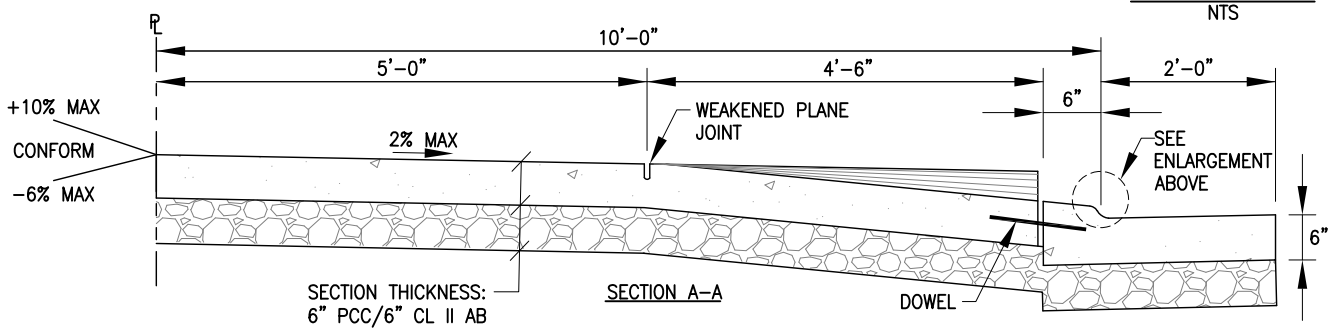
NTS

DETAIL NO.

C-20.2



ENLARGEMENT DETAIL
NTS



SEE NOTES IN DETAIL NO. C-21.2.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

AMY OLAY
PUBLIC WORKS DIRECTOR

COMMERCIAL DRIVEWAY

NTS

DETAIL NO.

C-21.1

NOTES:

1. PCC SHALL BE CLASS A (CONCRETE SHALL CONTAIN APPROX. 564 LBS OF PORTLAND CONCRETE PER CY AND HAVE A 28–DAY COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 PSI).
2. IF DRIVEWAY AND CURB AND GUTTER ARE POURED SEPARATELY, DOWEL GRADE 60, #4 REBAR INTO IMPROVEMENTS WITH 6" EMBEDMENT AT 4' INTERVALS AS SHOWN (REBAR TO BE BENT DOWN AND COVERED UNTIL USED).
3. SCORE MARKS SHALL NOT EXCEED 4'–0" O.C.; INSTALL EXPANSION JOINT AT EVERY OTHER SCORE MARK.
4. DRIVEWAY APPROACHES (EXCEPT SINGLE FAMILY) SHALL HAVE A 6"x6"x10/10 WELDED WIRE FABRIC 3" ABOVE BOTTOM OF CONCRETE.
5. DOWEL ALL NEW CONCRETE IMPROVEMENTS TO EXISTING CONCRETE IMPROVEMENTS WITH #4 REBAR AT 12" INTERVALS AND 6" EMBEDMENT.
6. AT LOCATIONS WHERE NEW SIDEWALK ENDS AND MEETS AN EXISTING SIDEWALK, THE NEW SIDEWALK SHALL TRANSITION TO MEET THE EXISTING SIDEWALK AS DETERMINED BY THE ENGINEER.
7. ALL CONCRETE SURFACES SHALL BE TROWELLED WITH A LIGHT BROOM FINISH. GROOVES SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL.
8. COMPACT SUBGRADE TO 95% RELATIVE COMPACTION.
9. INSTALL DETECTABLE WARNING SURFACES ON BOTH SIDES OF DRIVEWAYS THAT ARE CONTROLLED BY YIELD, STOP CONTROL DEVICES, OR TRAFFIC SIGNALS. DETECTABLE WARNING SURFACES SHALL EXTEND 24" MINIMUM IN THE DIRECTION OF PEDESTRIAN TRAVEL. THE WIDTH OF DETECTABLE WARNING SURFACES SHALL EXTEND THE FULL WIDTH OF THE SIDEWALK.

DRIVEWAY WIDTH TABLE		
	MIN	MAX
ONE–WAY	14'	14'
TWO–WAY	25'	40'

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

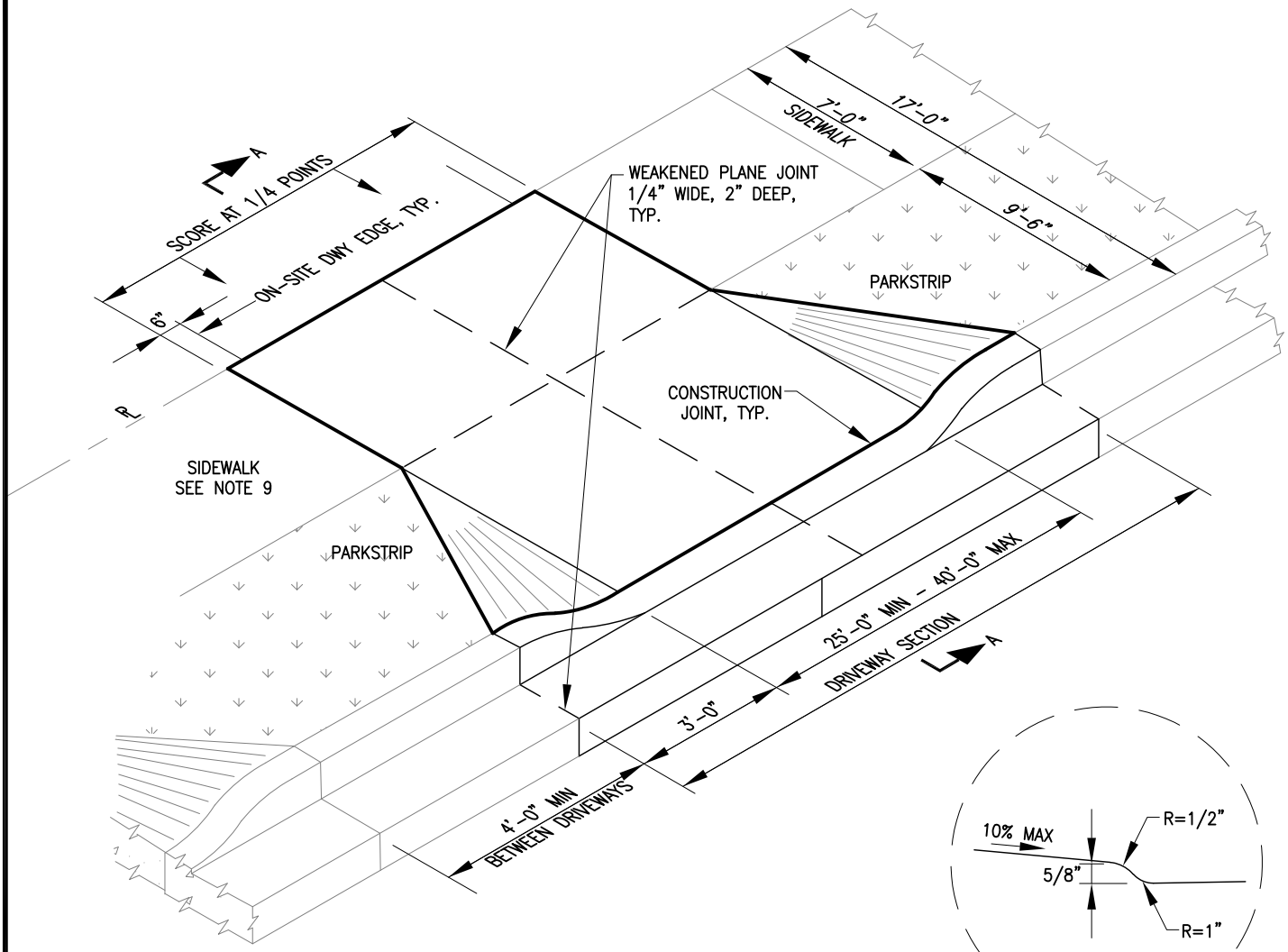
AMY OLAY
PUBLIC WORKS DIRECTOR

COMMERCIAL DRIVEWAY NOTES

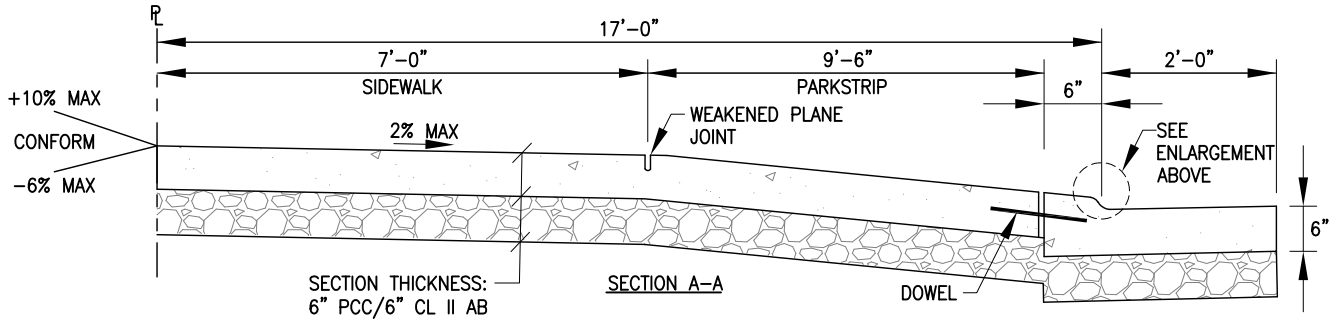
NTS

DETAIL NO.

C–21.2



ENLARGEMENT DETAIL
NTS



SEE NOTES IN DETAIL NO. C-22.2.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

AMY OLAY
PUBLIC WORKS DIRECTOR

BOULEVARD DRIVEWAY

NTS

DETAIL NO.

C-22.1

NOTES:

1. PCC SHALL BE CLASS A (CONCRETE SHALL CONTAIN APPROX. 564 LBS OF PORTLAND CONCRETE PER CY AND HAVE A 28-DAY COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 PSI).
2. IF DRIVEWAY AND CURB AND GUTTER ARE POURED SEPARATELY, DOWEL GRADE 60, #4 REBAR INTO IMPROVEMENTS WITH 6" EMBEDMENT AT 4' INTERVALS AS SHOWN (REBAR TO BE BENT DOWN AND COVERED UNTIL USED).
3. SCORE MARKS SHALL NOT EXCEED 4'-0" O.C.; INSTALL EXPANSION JOINT AT EVERY OTHER SCORE MARK.
4. DRIVEWAY APPROACHES (EXCEPT SINGLE FAMILY) SHALL HAVE A 6"x6"x10/10 WELDED WIRE FABRIC 3" ABOVE BOTTOM OF CONCRETE.
5. DOWEL ALL NEW CONCRETE IMPROVEMENTS TO EXISTING CONCRETE IMPROVEMENTS WITH #4 REBAR AT 12" INTERVALS AND 6" EMBEDMENT.
6. AT LOCATIONS WHERE NEW SIDEWALK ENDS AND MEETS AN EXISTING SIDEWALK, THE NEW SIDEWALK SHALL TRANSITION TO MEET THE EXISTING SIDEWALK AS DETERMINED BY THE ENGINEER.
7. ALL CONCRETE SURFACES SHALL BE TROWELLED WITH A LIGHT BROOM FINISH. GROOVES SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL.
8. COMPACT SUBGRADE TO 95% RELATIVE COMPACTION.
9. INSTALL DETECTABLE WARNING SURFACES ON BOTH SIDES OF DRIVEWAYS THAT ARE CONTROLLED BY YIELD, STOP CONTROL DEVICES, OR TRAFFIC SIGNALS. DETECTABLE WARNING SURFACES SHALL EXTEND 24" MINIMUM IN THE DIRECTION OF PEDESTRIAN TRAVEL. THE WIDTH OF DETECTABLE WARNING SURFACES SHALL EXTEND THE FULL WIDTH OF THE SIDEWALK.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

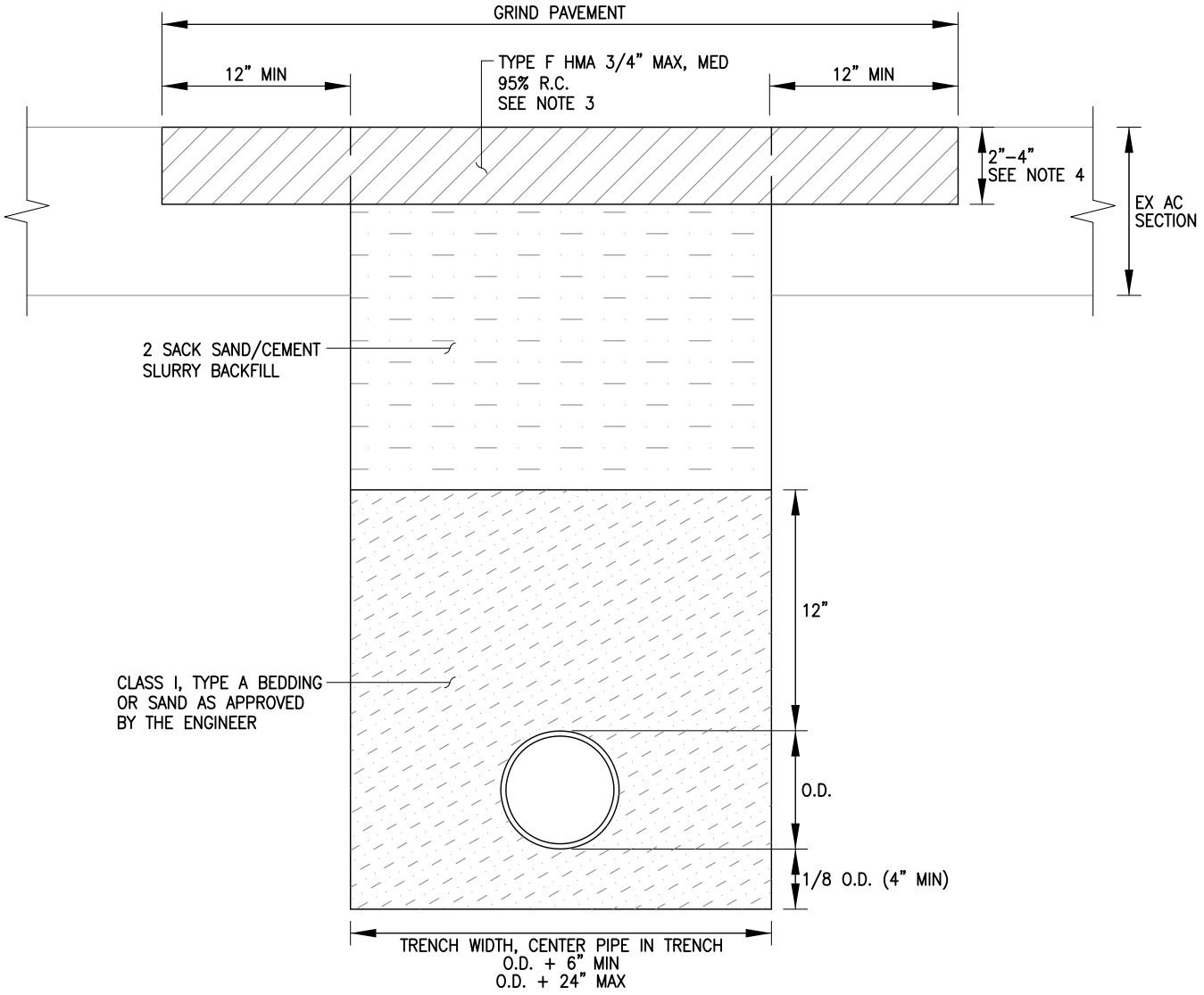
AMY OLAY
PUBLIC WORKS DIRECTOR

BOULEVARD DRIVEWAY NOTES

NTS

DETAIL NO.

C-22.2



NOTES:

1. THIS DETAIL ONLY APPLIES TO LATERAL CONNECTIONS PERPENDICULAR TO THE STREET.
2. FOR RESTORING ELECTRICAL CONDUIT TRENCHES, SEE DETAIL NO. C–25.
3. PLACE PERMANENT PAVEMENT WITHIN FIVE (5) DAYS AFTER BACKFILLING AN EXCAVATION. STEEL PLATING IS REQUIRED DURING THE CURING PERIOD OF THE 2 SACK SAND/CEMENT SLURRY BACKFILL, 3 DAYS MIN TO 5 DAYS MAX.
4. IF EXISTING AC SECTION IS LESS THAN 4" THICK, GRIND AC KEY TO FULL DEPTH OF EX AC AND REPLACE FULL DEPTH AC SECTION (2" MIN).
5. RECESSED TRENCH PLATES SHALL BE USED AT THE FOLLOWING LOCATIONS: ALL ARTERIAL STREETS, ALL COLLECTOR STREETS, AT TRENCH ALIGNMENTS NOT PARALLEL WITH OR PERPENDICULAR TO THE DIRECTION OF TRAFFIC, AND LOCATIONS DETERMINED BY THE ENGINEER TO BE NECESSARY.
6. PREPARE FOR PLACEMENT OF PLATES OVER TRENCH BY GRINDING A RELIEF 12" WIDE ON EACH SIDE OF THE TRENCH BY THE THICKNESS OF THE STEEL PLATE SO THAT THE SURFACE OF THE STEEL PLATE IS LEVEL WITH THE ADJACENT PAVEMENT SURFACE.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

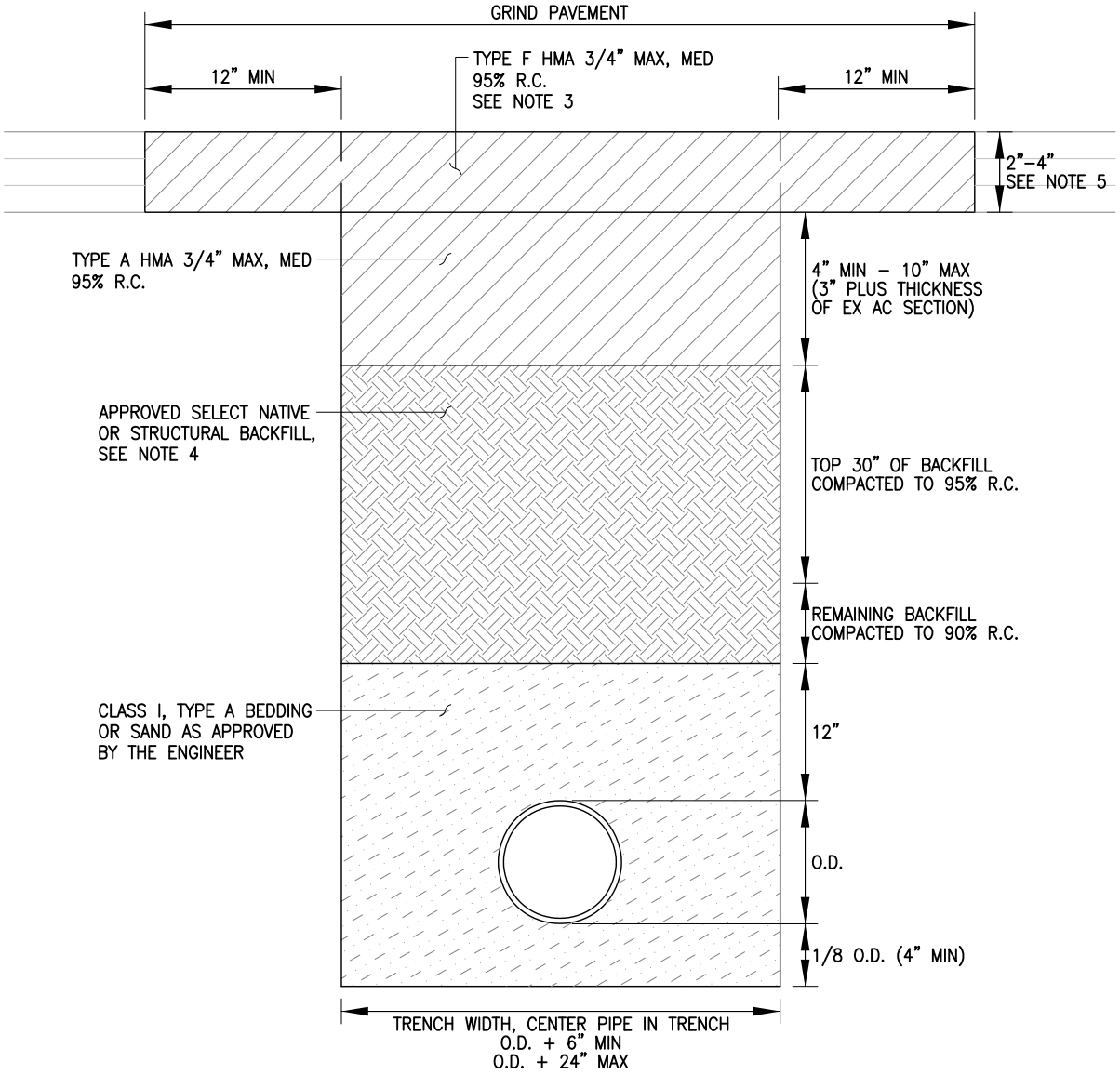
AMY OLAY
PUBLIC WORKS DIRECTOR

TRENCH RESTORATION (LATERAL)

NTS

DETAIL NO.

C–23



NOTES:

1. THIS DETAIL APPLIES TO MAIN-LINE INSTALLATIONS THAT RUN PARALLEL TO THE STREET.
2. FOR RESTORING ELECTRICAL CONDUIT TRENCHES, SEE DETAIL NO. C-25.
3. PLACE PERMANENT PAVEMENT WITHIN THIRTY (30) DAYS AFTER BACKFILLING. INSTALL TEMPORARY AC TO FINISH GRADE UNTIL PERMANENT AC IS PLACED.
4. BACKFILL SHALL BE COMPACTED BY MECHANICAL TAMPING IN LIFTS NOT TO EXCEED 0.75'. TRENCH BACKFILL TO BE COMPACTED TO 90% RELATIVE COMPACTION WITH TOP 30" COMPACTED TO 95% RELATIVE COMPACTION.
5. IF EXISTING AC SECTION IS LESS THAN 4" THICK, GRIND AC KEY TO FULL DEPTH OF EX AC AND REPLACE FULL DEPTH AC SECTION (2" MIN).
6. IF OUTSIDE TRAVELED WAY, ELIMINATE AC AND REPLACE SURFACE IMPROVEMENT TO MATCH EXISTING.
7. RECESSED TRENCH PLATES SHALL BE USED AT THE FOLLOWING LOCATIONS: ALL ARTERIAL STREETS, ALL COLLECTOR STREETS, AT TRENCH ALIGNMENTS NOT PARALLEL WITH OR PERPENDICULAR TO THE DIRECTION OF TRAFFIC, AND LOCATIONS DETERMINED BY THE ENGINEER TO BE NECESSARY.
8. PREPARE FOR PLACEMENT OF PLATES OVER TRENCH BY GRINDING A RELIEF 12" WIDE ON EACH SIDE OF THE TRENCH BY THE THICKNESS OF THE STEEL PLATE SO THAT THE SURFACE OF THE STEEL PLATE IS LEVEL WITH THE ADJACENT PAVEMENT SURFACE.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

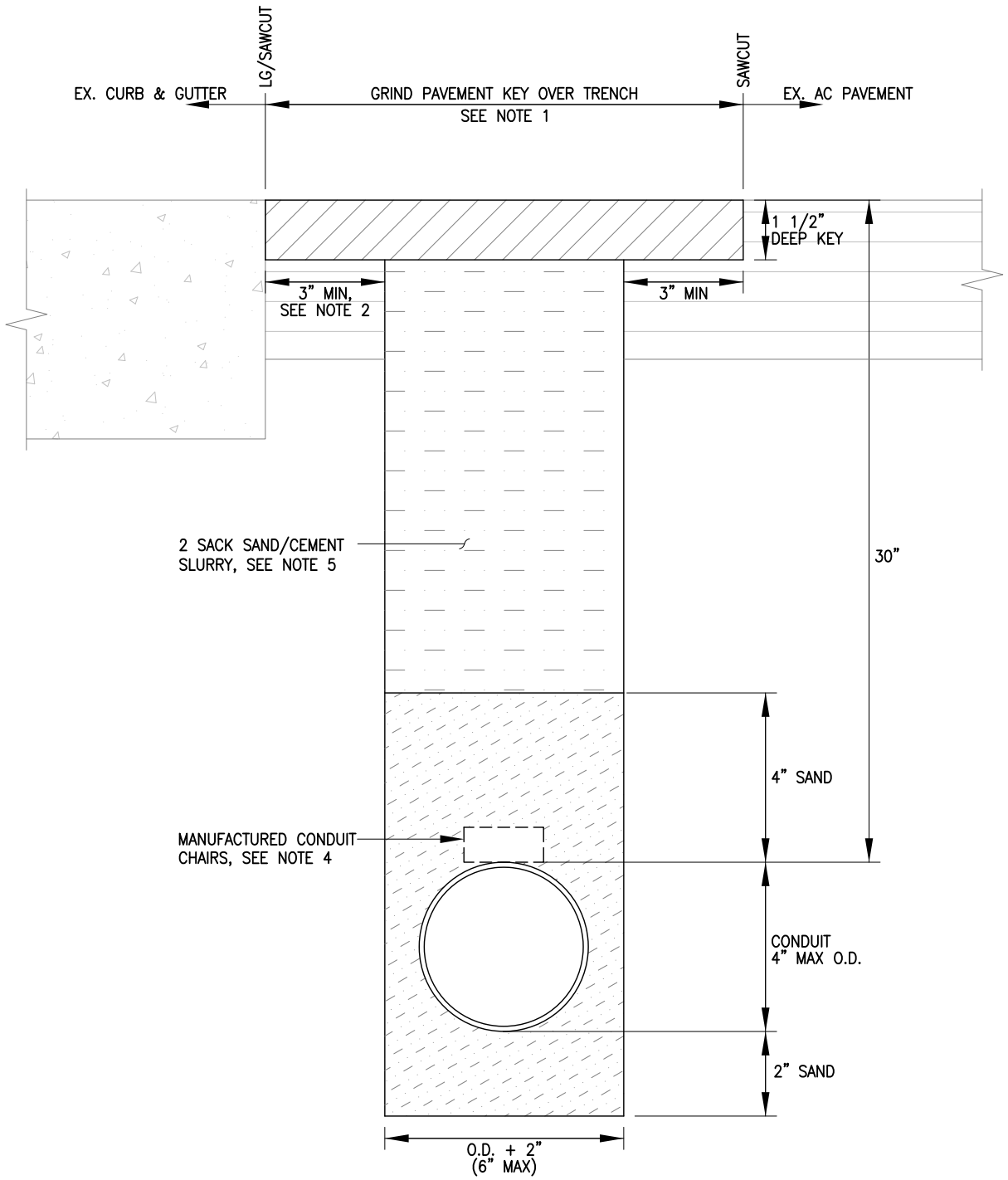
APPROVED FOR USE JANUARY 2026

AMY OLAY
PUBLIC WORKS DIRECTOR

TRENCH RESTORATION (MAIN-LINE)

NTS

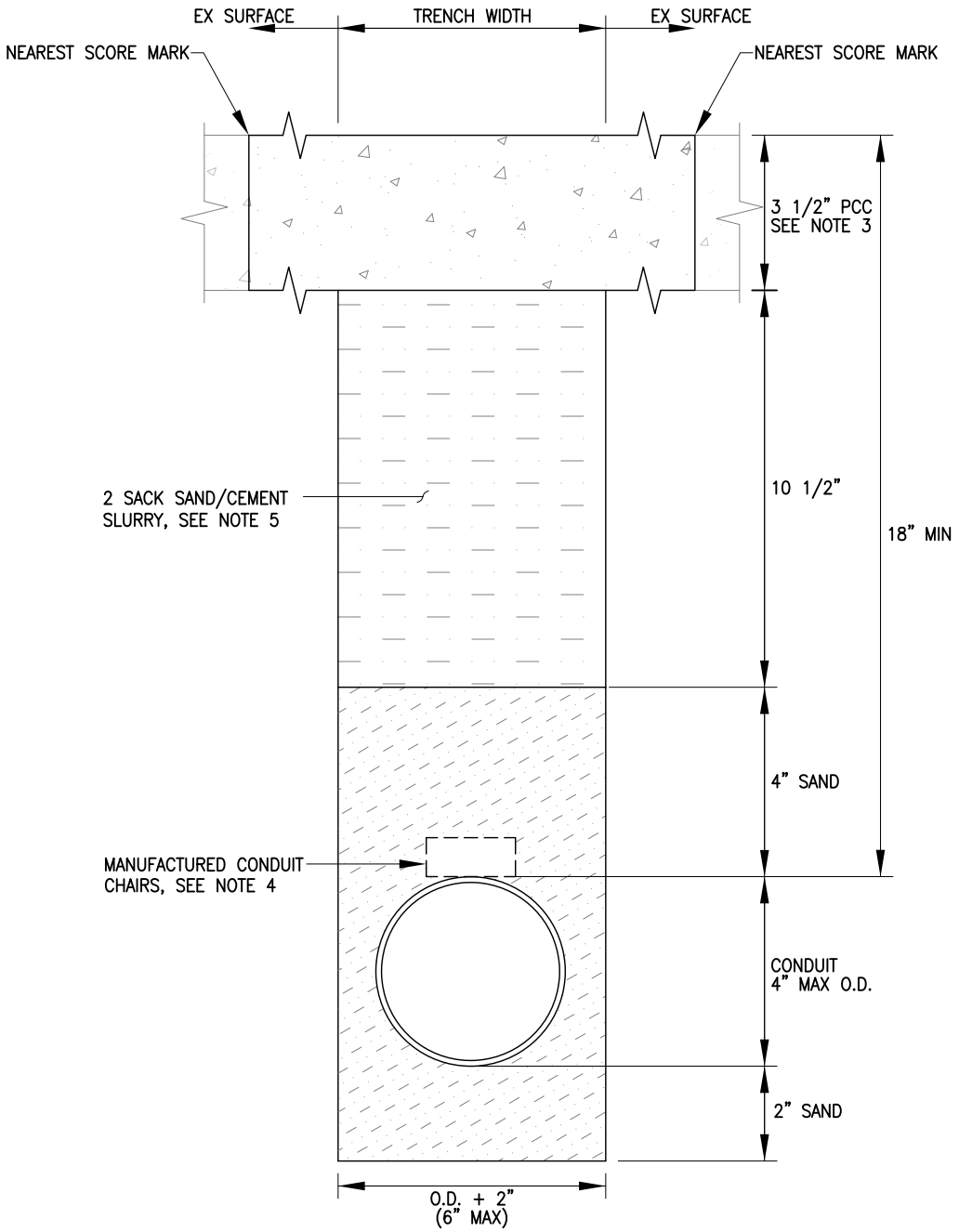
DETAIL NO.
C-24



NOTES:

1. INSTALL SLURRY TO TOP OF EXISTING AC PAVEMENT. INSTALL PAVEMENT KEY BY GRINDING SLURRY AND AC PAVEMENT PLUG KEY WITH PERMANENT AC SURFACE (1 ½" DEPTH; TYPE F ½" MAX, MED, 95% RELATIVE COMPACTION).
2. EXISTING AC PAVEMENT BETWEEN LIP OF GUTTER AND TRENCH SHALL BE GROUND AND REPLACED WITH KEY.
3. PLACE PERMANENT AC PAVEMENT WITHIN 10 DAYS OF TRENCHING.
4. INSTALL MANUFACTURED CONDUIT CHAIRS BETWEEN CONDUITS IF MORE THAN ONE CONDUIT IS PLACED IN TRENCH.
5. BARRICADING REQUIRED DURING SAND/CEMENT SLURRY CURING PERIOD.

CITY OF CAMPBELL	CITY OF CAMPBELL PUBLIC WORKS DEPARTMENT APPROVED FOR USE JANUARY 2026 AMY OLAY PUBLIC WORKS DIRECTOR	TRENCH RESTORATION (SIGNAL, LIGHTING & ELECTRICAL CONDUIT INSTALLATION – IN PAVEMENT AREAS) NTS	DETAIL NO. C–25



NOTES:

1. SAFE PEDESTRIAN ACCESS MUST BE PROVIDED AROUND WORK AREA AT ALL TIMES.
2. PERMANENT IMPROVEMENTS SHALL BE COMPLETED WITHIN 5 DAYS OF TRENCHING.
3. ENTIRE SIDEWALK PANEL MUST BE SAWCUT AND REMOVED AT SCORE MARKS.
4. INSTALL MANUFACTURED CONDUIT CHAIRS BETWEEN CONDUITS IF MORE THAN ONE CONDUIT IS PLACED IN TRENCH.
5. CL II AB, 95% RELATIVE COMPACTION MAY BE USED IN LIEU OF TOP 3 1/2" OF SAND/CEMENT SLURRY.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

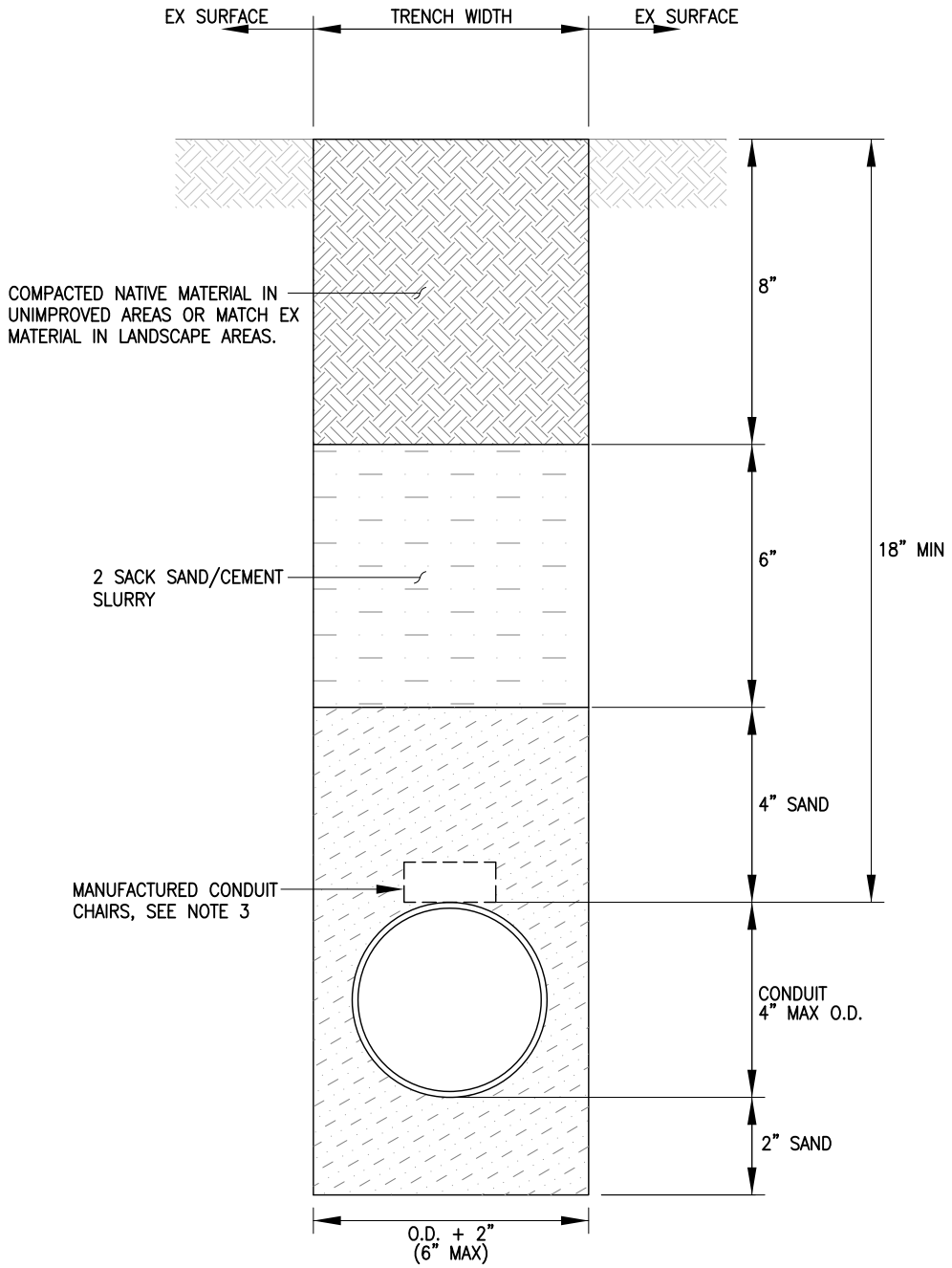
AMY OLAY
PUBLIC WORKS DIRECTOR

TRENCH RESTORATION (SIGNAL, LIGHTING & ELECTRICAL CONDUIT INSTALLATION - IN WALKWAY AREAS)

NTS

DETAIL NO.

C-26



NOTES:

1. SAFE PEDESTRIAN ACCESS MUST BE PROVIDED AROUND WORK AREA AT ALL TIMES.
2. PERMANENT IMPROVEMENTS SHALL BE COMPLETED WITHIN 5 DAYS OF TRENCHING.
3. INSTALL MANUFACTURED CONDUIT CHAIRS BETWEEN CONDUITS IF MORE THAN ONE IN TRENCH.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

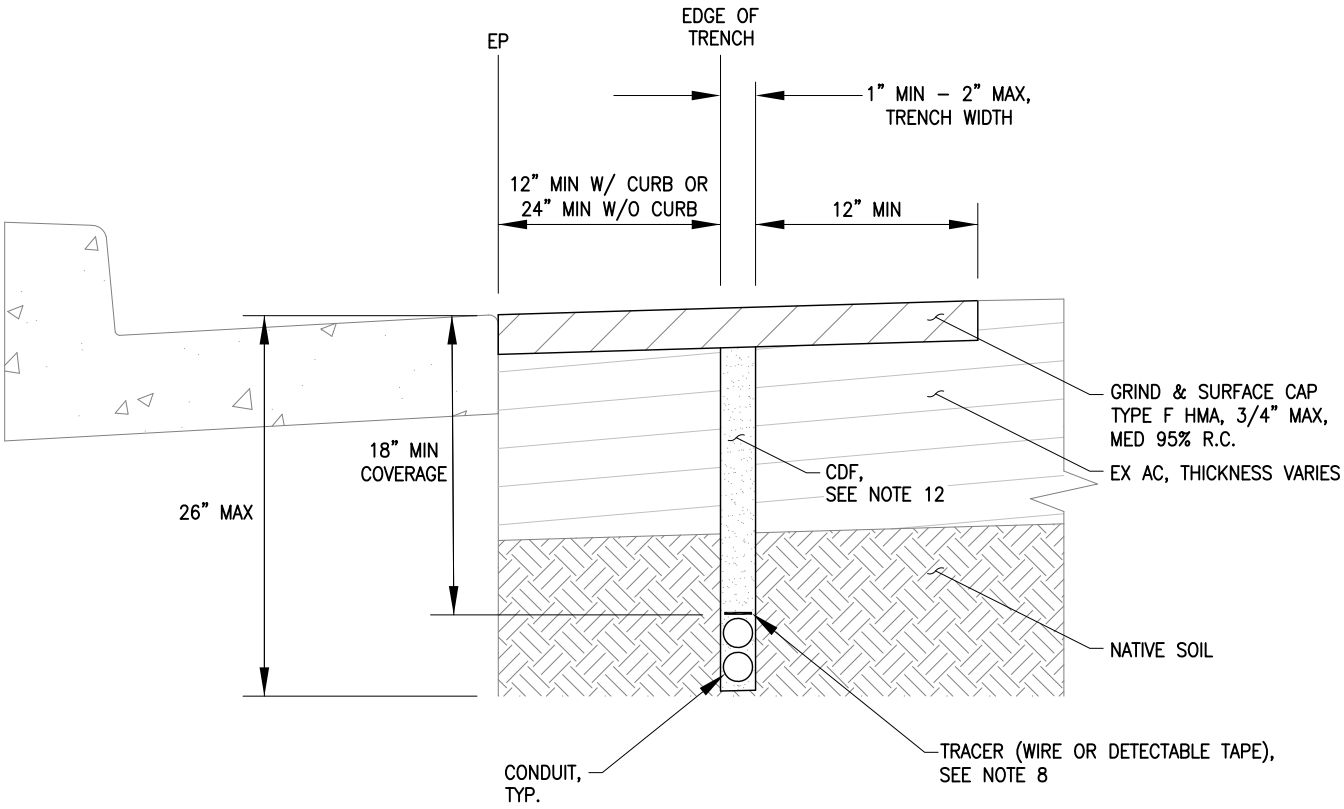
AMY OLAY
PUBLIC WORKS DIRECTOR

TRENCH RESTORATION (SIGNAL, LIGHTING & ELECTRICAL CONDUIT INSTALLATION – IN UNIMPROVED AREAS)

NTS

DETAIL NO.

C–27



NOTES:

LIMITS OF REMOVALS, TRENCH WIDTH, AND LOCATION

1. THE CONTRACTOR SHALL IDENTIFY ALL EXISTING UTILITIES, INCLUDING SERVICE CONNECTIONS IN THE FIELD. THE CONTRACTOR SHALL POTHOLE ALL CROSSING UTILITIES AND PARALLEL UTILITIES WITHIN 24–INCHES OF THE PROPOSED ALIGNMENT TO A DEPTH OF 6–INCHES BELOW THE BOTTOM OF THE MICROTRENCH.
2. MICROTRENCHING SHALL ONLY BE USED TO INSTALL TELECOMMUNICATION CONDUITS.
3. MICROTRENCHING THROUGH A SIGNALIZED INTERSECTION IS NOT ALLOWED.
4. MICROTRENCHING THROUGH A PAVEMENT MORATORIUM STREET IS NOT ALLOWED.
5. MICROTRENCH SHALL BE CONSTRUCTED WITH CONTINUOUS UNIFORM, STRAIGHT, AND NEAT EDGES.
6. MICROTRENCH ALIGNMENTS SHALL CONSIST OF RUNS PARALLEL TO THE CENTERLINE OF THE STREET. STREET CROSSINGS MAY BE ALLOWED PROVIDED THE ALIGNMENT IS PERPENDICULAR TO THE STREET CENTERLINE.
7. MICROTRENCHING IS NOT ALLOWED THROUGH EXISTING CURB, GUTTER, BUS PAD, PCC STREET SECTIONS, SIDEWALK, PARKSTRIP, SPECIAL PAVEMENTS, SUCH AS DECORATIVE ASPHALT OR PAVERS, OR SIMILAR ELEMENTS.
8. INSTALL TRACER (WIRE OR DETECTABLE TAPE) OVER CONDUIT PRIOR TO BACKFILLING. ALTERNATIVELY, TRACER (WIRE OR DETECTABLE TAPE) MAY BE INSTALLED AS INTEGRAL PART OF CONDUIT WITH PRIOR APPROVAL.
9. ANCHORS SHALL BE PLACED AT A MAXIMUM OF 10 FT APART ALONG THE ALIGNMENT TO ENSURE THE CONDUIT DOES NOT RISE FROM THE BOTTOM OF THE MICROTRENCH.

NOTES CONTINUED IN DETAIL NO. C–28.2.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

AMY OLAY
PUBLIC WORKS DIRECTOR

MICROTRENCHING

NTS

DETAIL NO.

C–28.1

NOTES (CONTINUED):

EQUIPMENT

10. MICROTRENCHER SHALL BE CAPABLE OF MEETING TARGET DEPTH AND WIDTH IN A SINGLE PASS WITH AN INTEGRAL HOOD AND ASSOCIATED VACUUM SYSTEM. SELECTION OF CUTTING WHEEL SHALL BE SUCH THAT IT MINIMIZES DAMAGE TO THE ADJACENT AC SURFACE.
11. EQUIPMENT FOR PLACING CDF SHALL BE APPROPRIATELY SIZED FOR DEPOSITING AND PROCESSING MATERIAL WITHIN THE TRENCH ENVELOP.

BACKFILL

12. ALL MICROTRENCHES SHALL BE COMPLETELY BACKFILLED TO FINISH GRADE BY END OF DAY WITH CONTROLLED DENSITY FILL (CDF) THAT MEETS THE FOLLOWING REQUIREMENTS: 24HR MIN STRENGTH (100 PSI) AND FULLY CURED (28 DAY) MAX STRENGTH (1000 PSI). BACKFILLING OPERATION SHALL NOT COMMENCE WITHOUT APPROVAL FROM CITY INSPECTOR.
13. PRIOR TO APPLICATION IN FIELD, SUBMIT CDF MIX DESIGN WITH STRENGTH DATA FOR REVIEW AND APPROVAL. MIX DESIGN MAY ALSO BE SUBJECT TO TESTING.
14. BACKFILLING SHALL NOT ENCASE OTHER UTILITIES WITHOUT WRITTEN PERMISSION FROM FACILITY OWNER.

GRIND AND RESURFACE SECTION

15. COMMENCEMENT OF SURFACE PREPARATION SUCH AS GRINDING/CHIPPING FOR HMA PAVING REPLACEMENT SHALL OCCUR NO SOONER THAN 48 HOURS AFTER SLURRY BACKFILL OF TRENCH. FIELD CONDITIONS OR MATERIAL USED MAY NECESSITATE A LONGER WAIT TIME AS DETERMINED BY THE ENGINEER.
16. AS SOON AS BACKFILL HAS CURED, NOT TO EXCEED 30 CALENDAR DAYS, EXISTING AC SHALL BE GROUND AND CAPPED AS FOLLOWS:
    A. EXISTING AC AND CDF SHALL BE GROUND DOWN 2" TO A WIDTH OF 24" MIN. IF EXISTING ASPHALT IS LESS THAN 3" THICK, GRIND AND INSTALL A 4" SURFACE CAP. BOTH EDGES OF THE GRIND SHALL BE 6" MIN FROM EDGES OF THE MICROTRENCH.
    B. CONTRACTOR SHALL USE A BOMAG 3–5 TON TANDEM VIBRATORY ROLLER, OR SIMILAR, TO ENSURE PROPER COMPACTION. THE USE OF A PLATE COMPACTOR, SINGLE DRUM VIBRATORY ROLLER, OR WALK BEHIND VIBRATORY ROLLER, IS NOT ALLOWED.
    C. WHERE CUTS ARE MADE WITHIN A BIKE LANE, CAPPING LIMITS SHALL EXTEND THE FULL WIDTH OF THE BIKE LANE. PAVEMENT MARKINGS SHALL BE RESTORED IN KIND.
17. SURFACE CAP SHALL BE PLACED AT ALL LOCATIONS BY END OF THE DAY. NO PORTION OF ROADWAY SHALL REMAIN BELOW SURFACE GRADE AFTER WORKING HOURS.
18. PAVEMENT SHALL BE LEVEL WITH ADJACENT ROADWAY ELEVATIONS AND SHALL PROVIDE A SMOOTH SURFACE SUBJECT TO APPROVAL BY THE CITY INSPECTOR.

VAULTS AND SERVICE CONNECTORS

19. CONNECTION TO SERVICE LATERALS, JUNCTION BOXES, ETC., SHALL BE DONE SUCH THAT CURB AND GUTTER ARE NOT DISTURBED, SETTLED, OR DAMAGED. REMOVAL LIMITS OF SIDEWALK SHALL FOLLOW APPLICABLE STANDARD AND REQUIREMENTS AS APPROVED BY THE ENGINEER.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

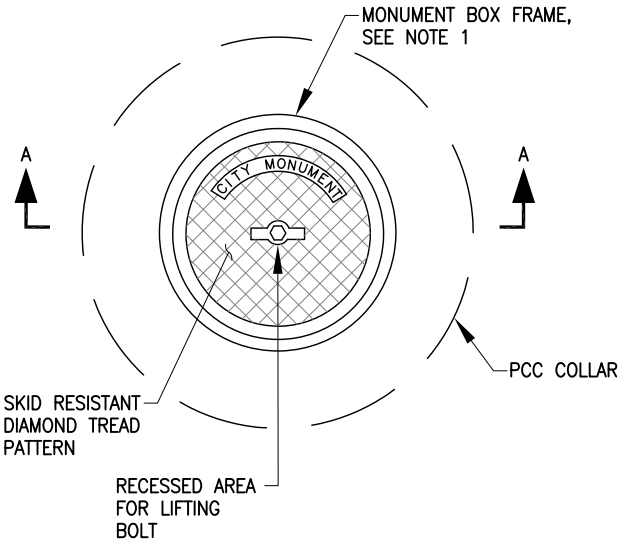
APPROVED FOR USE JANUARY 2026

AMY OLAY
PUBLIC WORKS DIRECTOR

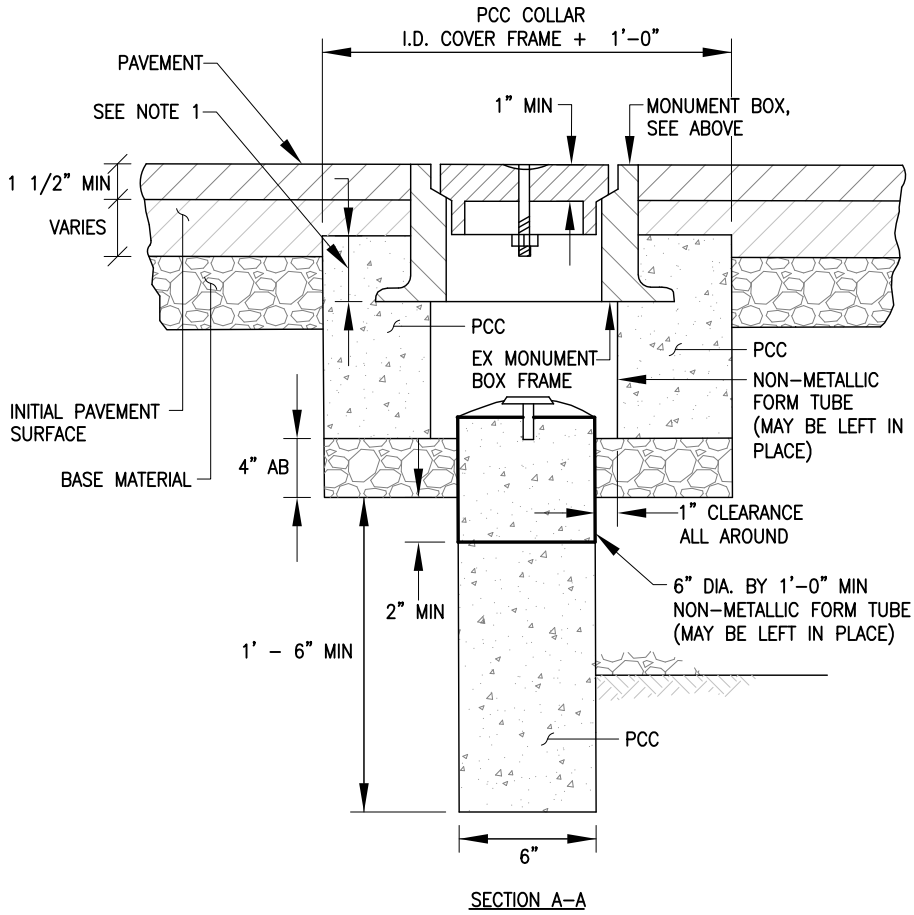
MICROTRENCHING – NOTES

NTS

DETAIL NO.
C–28.2



COVER INSTALLATION



SECTION A-A

NOTES:

1. FRAME SHALL BE EMBEDDED IN PCC, A MINIMUM OF 3".
2. COVER AND RISER RING SHALL NOT ROCK AFTER INSTALLATION.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

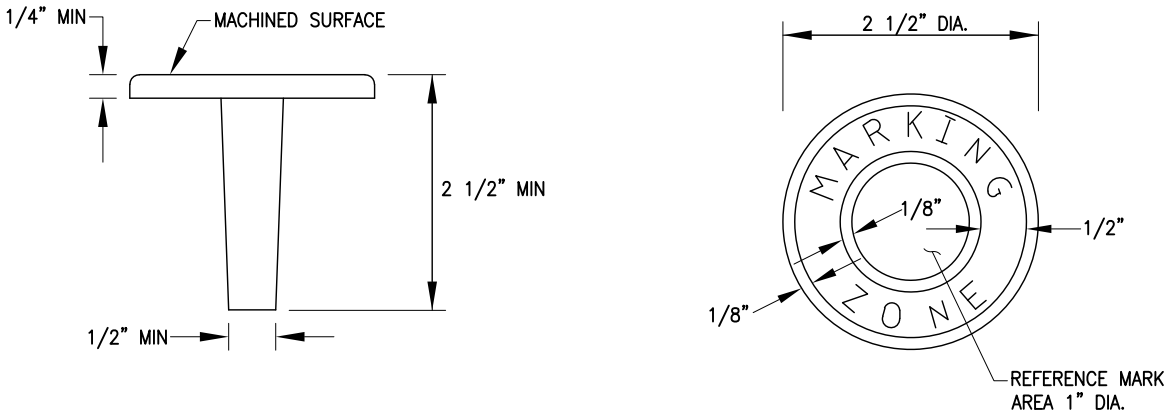
AMY OLAY
PUBLIC WORKS DIRECTOR

STREET MONUMENT

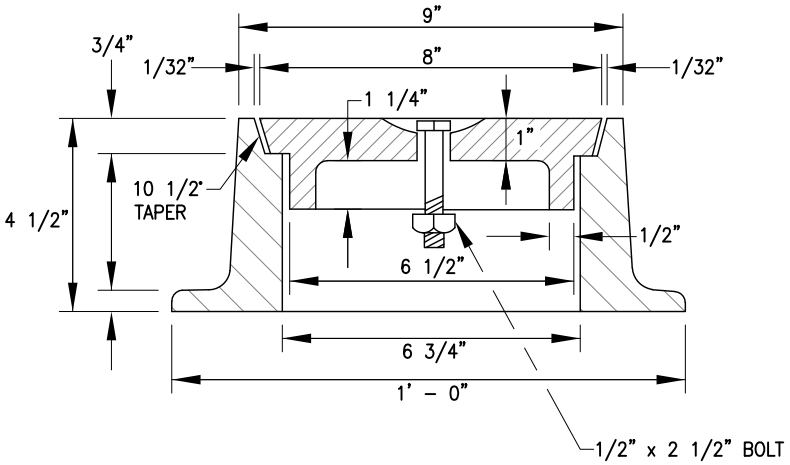
NTS

DETAIL NO.

C-29



BRASS MARKER DISC



SECTION FRAME AND COVER

NOTES:

1. MARKINGS IN ACCORDANCE WITH THE LAND SURVEYOR ACT SHALL BE A MINIMUM OF 3/16" SIZED LETTERS AND NUMBERS LEGIBLY STAMPED WITHIN THE DESIGNATED "MARKING ZONE".
2. REFERENCE MARK SHALL BE PLACED WITHIN A 1" DIAMETER OF THE CENTER OF THE DISC.
3. SHANK SHALL BE CONSTRUCTED IN A MANNER WHICH PREVENTS REMOVAL OR TURNING ONCE SET IN CONCRETE.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

AMY OLAY
PUBLIC WORKS DIRECTOR

STREET MONUMENT FRAME & COVER AND MARKER DISC CASTING

NTS

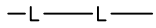
DETAIL NO.

C-30

NOTES:

1. ELECTRICAL SYSTEMS MUST CONFORM TO THE MOST CURRENT VERSION OF THE FOLLOWING CALTRANS STANDARD PLANS:

ES-1A – ELECTRICAL SYSTEMS (LEGEND);
NOT INCLUDING LIGHTING CONDUIT, MISCELLANEOUS ELECTROLIERS, CITY ELECTROLIER SYMBOL; FOR STREETLIGHTS AND LIGHTING CONDUIT USE THE FOLLOWING:

	NEW	EXISTING
STREETLIGHT		
LIGHTING CONDUIT		

ES-1B – ELECTRICAL SYSTEMS (LEGEND);
NOT INCLUDING LIGHTING CONDUIT AND TRAFFIC SIGNAL CONDUIT; FOR LIGHTING CONDUIT AND TRAFFIC SIGNAL CONDUIT USE THE FOLLOWING:

ES-1C – ELECTRICAL SYSTEMS (LEGEND)

ES-2C – ELECTRICAL SYSTEMS (SERVICE EQUIPMENT ENCLOSURE NOTES TYPE III SERIES)

ES-2D – ELECTRICAL SYSTEMS (SERVICE EQUIPMENT ENCLOSURE AND TYPICAL WIRING DIAGRAM, TYPE III – A SERIES)

ES-4A – ELECTRICAL SYSTEMS (SIGNAL HEAD MOUNTING)

ES-4B – ELECTRICAL SYSTEMS (PEDESTRIAN SIGNAL HEADS)

ES-4C – ELECTRICAL SYSTEMS (SIGNAL HEADS AND MOUNTINGS)

ES-4D – ELECTRICAL SYSTEMS (SIGNAL HEAD MOUNTING)

ES-4E – ELECTRICAL SYSTEMS (SIGNAL HEADS AND OPTICAL DETECTOR MOUNTING)

ES-5A – ELECTRICAL SYSTEMS (LOOP DETECTORS)

ES-5B – ELECTRICAL SYSTEMS (DETECTORS)

ES-5C – ELECTRICAL SYSTEMS (ACCESSIBLE PEDESTRIAN SIGNAL AND PUSH BUTTON ASSEMBLIES)

ES-5D – ELECTRICAL SYSTEMS (CURB AND SHOULDER TERMINATION, TRENCH, AND HAND HOLE DETAILS);
NOT INCLUDING CURB TERMINATION TYPE B DETAIL AND SHOULDER TERMINATION DETAILS.

ES-6A – ELECTRICAL SYSTEMS (LIGHTING STANDARD, TYPES OF 15 AND 21)

ES-7A – ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARD, TYPE TS, AND PUSH BUTTON ASSEMBLY POST)

ES-7B – ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARD, TYPE 1 AND EQUIPMENT IDENTIFICATION CHARACTERS)

ES-7C – ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARD CASE 1 SIGNAL MAST ARM LOADING, WIND VELOCITY = 100 MPH AND SIGNAL MAST ARM LENGTHS 15' TO 30')

ES-7D – ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARD CASE 2 SIGNAL MAST ARM LOADING, WIND VELOCITY = 100 MPH AND SIGNAL MAST ARM LENGTHS 15' TO 30')

ES-7E – ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARD CASE 3 SIGNAL MAST ARM LOADING, WIND VELOCITY = 100 MPH AND SIGNAL MAST ARM LENGTHS 15' TO 45')

ES-7F – ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARD CASE 4 SIGNAL MAST ARM LOADING, WIND VELOCITY = 100 MPH AND SIGNAL MAST ARM LENGTHS 25' TO 45')

ES-7G – ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARD CASE 5 SIGNAL MAST ARM LOADING, WIND VELOCITY = 100 MPH AND SIGNAL MAST ARM LENGTHS 50' TO 55')

ES-7H – ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARD CASE 5 SIGNAL MAST ARM LOADING, WIND VELOCITY = 100 MPH AND SIGNAL MAST ARM LENGTHS 60' TO 65')

ES-7M – ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARD DETAIL No. 1);
NOT INCLUDING TIP TENON DETAIL TL AND TIP TENON DETAIL TS.

CONTINUED ON DETAIL NO. E-0.2

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

AMY OLAY
PUBLIC WORKS DIRECTOR

ELECTRICAL GENERAL NOTES

NTS

DETAIL NO.
E-0.1

CONTINUED FROM DETAIL NO. E-0.1

ES-7N – ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARD DETAIL No. 2)

ES-7O – ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARD DETAIL No. 3)

ES-7Q – ELECTRICAL SYSTEMS (PEDESTRIAN BARRICADES)

ES-7R – ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING, MISCELLANEOUS ATTACHMENT)

ES-13A – ELECTRICAL SYSTEMS (SPLICE INSULATION METHOD DETAILS);
TYPICAL SPLICE INSULATION HEAT SHRINK TUBING ONLY; THE REMAINDER OF THE PLAN IS EXCLUDED.

ES-13B – ELECTRICAL SYSTEMS (KINKING AND BANDING DETAIL); TYPICAL BANDING DETAILS ONLY;
THE REMAINDER OF THE PLAN IS EXCLUDED.

ES-18A – TEMPORARY WOOD POLES – GENERAL NOTES

ES-18B – TEMPORARY WOOD POLES – NON-GUYED – NO SIGNALS ON SPANS

ES-18C – TEMPORARY WOOD POLES – GUYED – NO SIGNALS ON SPANS

ES-18D – TEMPORARY WOOD POLES – GUYED – WITH SIGNALS FACES ON SPANS

ES-18E – TEMPORARY WOOD POLES – NON-GUYED – WITH SIGNAL FACES ON SPAN

ES-19A – TEMPORARY WOOD POLES – DETAILS No. 1

ES-19B – TEMPORARY WOOD POLES – DETAILS No. 2

ES-19C – TEMPORARY WOOD POLES – DETAILS No. 3

ES-19D – TEMPORARY WOOD POLES – DETAILS No. 4

ES-19E – TEMPORARY WOOD POLES – DETAILS No. 5

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

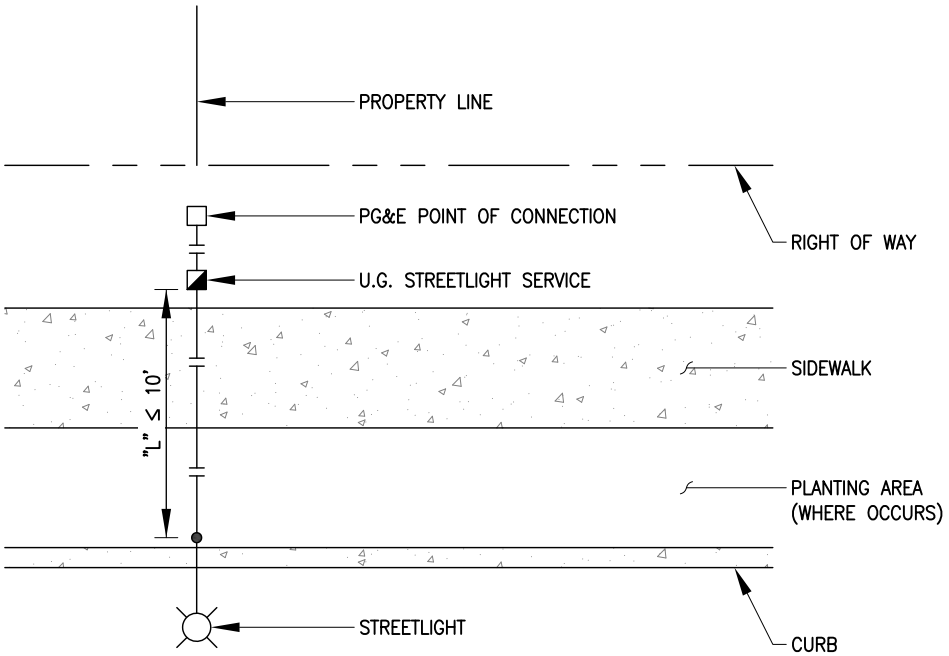
AO

AMY OLAY
PUBLIC WORKS DIRECTOR

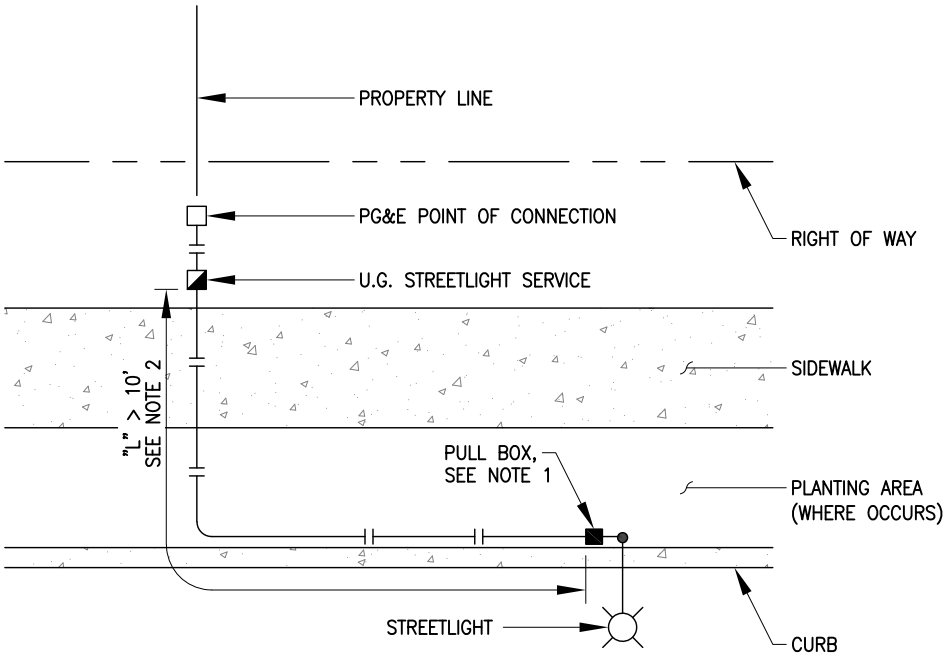
ELECTRICAL GENERAL NOTES

NTS

DETAIL NO.
E-0.2



"L" CONDUIT LENGTH ≤ 10'



"L" CONDUIT LENGTH > 10'

NOTES:

1. IF 'L' IS GREATER THAN 10' – THEN PULL BOX IS REQUIRED AT ELECTROLIER, PLACE PULL BOX ADJACENT TO ELECTROLIER PER ELECTROLIER/PULL BOX & FOUNDATION CAP DETAIL.
2. 200' MAX CONDUIT LENGTH BETWEEN BOXES.
3. PROVIDE 6" CLEARANCE BETWEEN PG&E POINT OF CONNECTION AND U.G. STREETLIGHT SERVICE PULL BOXES, OR AS REQUIRED BY PG&E.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

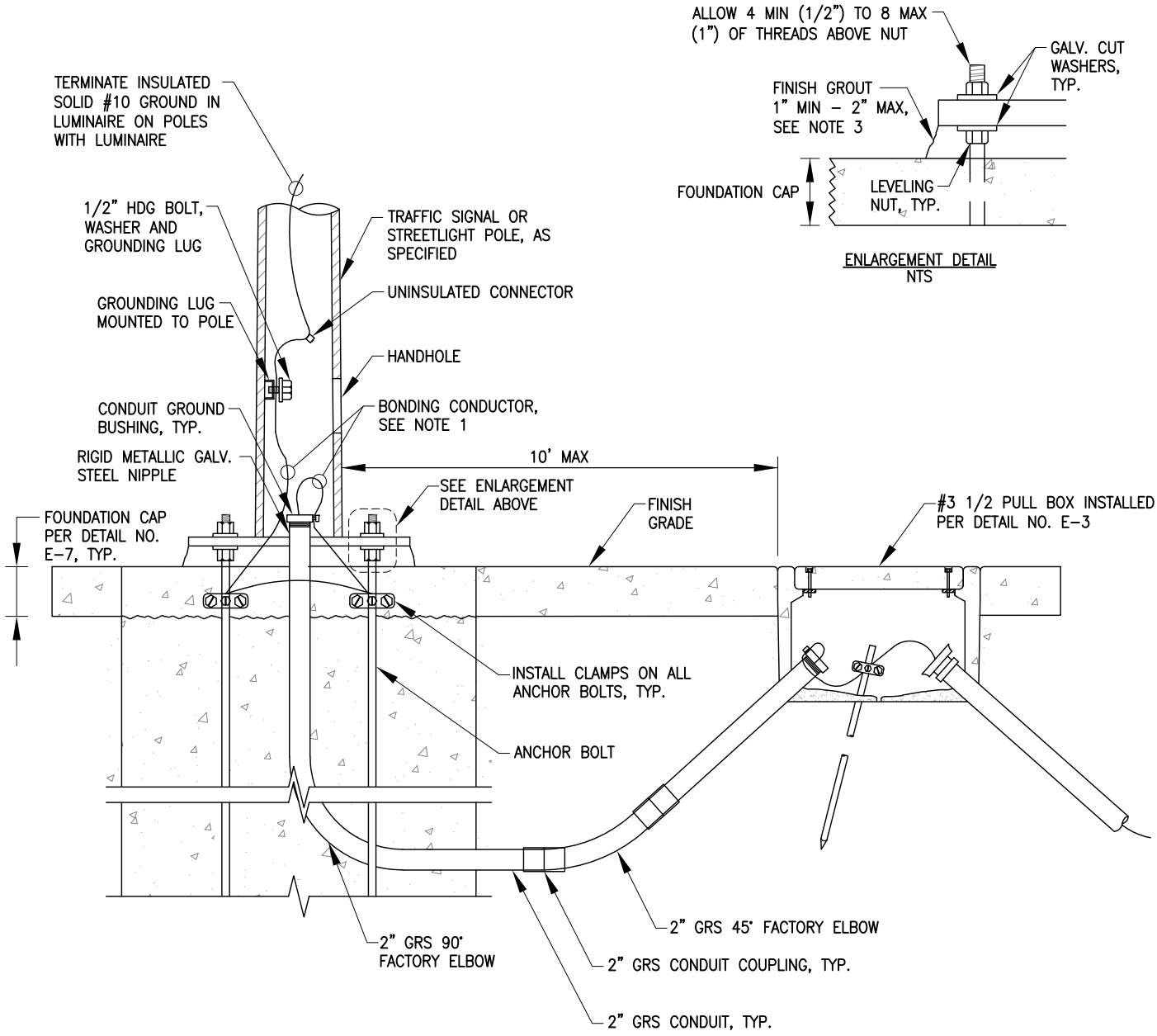
AMY OLAY
PUBLIC WORKS DIRECTOR

PG&E POINT OF CONNECTION & STREETLIGHT SERVICE

NTS

DETAIL NO.

E – 1



NOTES:

1. BONDING CONDUCTOR SHALL BE CONTINUOUS, OR A C–TAP CONNECTOR MAY BE USED, WITH 3' OF SLACK NEAR GROUNDING LUG. BONDING CONDUCTOR SHALL CONNECT TO CONDUIT GROUNDING BUSHING, ALL ANCHOR BOLT GROUNDING CLAMPS (4 EACH), THEN POLE TO GROUNDING LUG.
2. STEEL SPIRAL, VERTICAL BARS, INSPECTION TUBES, AND ANCHOR PLATE WITH HEAVY NUTS ARE NOT SHOWN.
3. GROUT SHALL BE PRECISION NON–SHRINK CONSTRUCTION TYPE.
4. ALL BONDING AND GROUNDING CONDUCTORS SHALL BE BARE STRANDED COPPER #8 AWG UNLESS NOTED OTHERWISE.
5. GROUND CLAMP MUST BE SILICON BRONZE WITH COPPER FASTENERS AND BE NRTL CERTIFIED FOR CONCRETE ENCASEMENT OR DIRECT BURIAL.
6. CONDUIT SHALL TERMINATE 3" MIN AND 7" MAX ABOVE GRADE.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

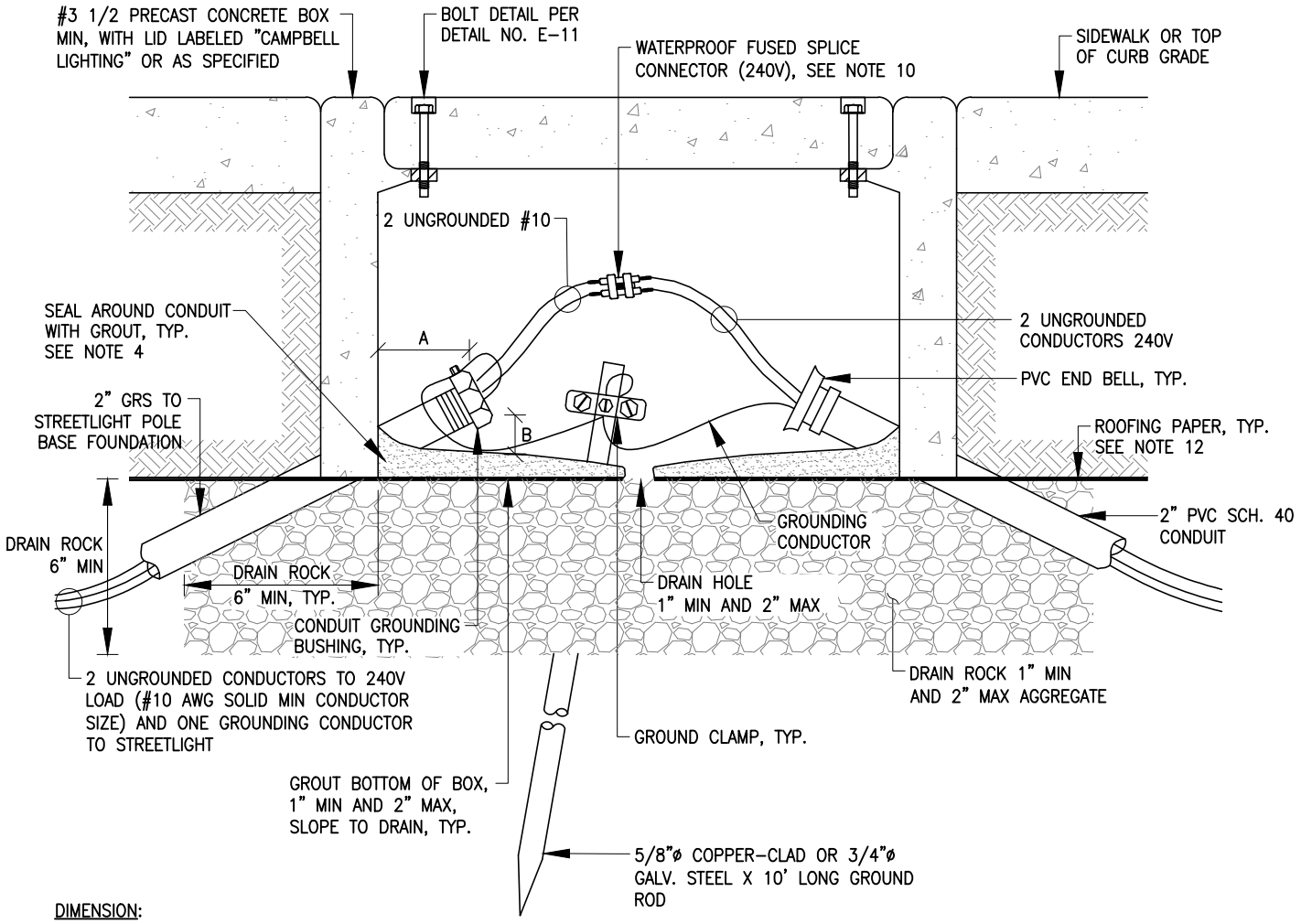
AMY OLAY
PUBLIC WORKS DIRECTOR

POLE BONDING, GROUNDING, AND GROUTING

NTS

DETAIL NO.

E–2



DIMENSION:

A: 1" MIN AND 2" MAX (TYP. ALL CONDUITS)

B: 1" MIN AND 2" MAX ABOVE GROUT (TYP. ALL CONDUITS)

NOTES:

1. PULL BOX PLACEMENT AND SPACING PER DETAIL NO. E-1, NO. E-2, AND NO. E-7.
2. PROVIDE 3' OF SLACK IN ALL CONDUCTORS (SLACK NOT SHOWN).
3. STREETLIGHT CONDUCTORS SHALL BE AS SHOWN (240V), OR AS SPECIFIED.
4. GROUT SHALL BE PRECISION NON-SHRINK CONSTRUCTION TYPE.
5. CONDUIT ENTERING BOX SHALL BE AT A 45° ANGLE.
6. PULL BOX DIMENSIONS AND BOLT DETAILS SHALL BE PER DETAIL NO. E-11.
7. WATERPROOF (HEAT-SHRINK) SPLICE SHALL BE PER CALTRANS ES-13A ELECTRICAL SYSTEMS (SPLICE INSTALLATION METHODS DETAILS). SPLICE NOT SHOWN.
8. ALL BONDING AND GROUNDING CONDUCTORS SHALL BE BARE STRANDED COPPER #8 AWG UNLESS NOTED OTHERWISE.
9. ALL NEUTRAL AND UNGROUNDED CONDUCTORS SHALL BE THW OR TW SOLID COPPER #8 AWG UNLESS NOTED OTHERWISE.
10. WATERPROOF FUSED SPLICE CONNECTOR SHALL BE EATON BUSSMANN TRON HEB-AA (120V) OR HEX-AA (240V), MERSEN FEB-11-11, FEX-11-11, OR APPROVED EQUAL. FUSE(S) SHALL BE BUSSMANN FNQ6 (6AMP), MERSEN ATQ6, OR APPROVED EQUAL. INSULATE TERMINALS PER NOTE 7.
11. CONTINUOUS GROUND WIRE WITHOUT A GROUND ROD MAY BE PROVIDED IN STREETLIGHT PULL BOXES WITHOUT A CONDUIT RUN IN FOUNDATIONS.
12. EDGES OF THE ROOFING PAPER SHALL EXTEND BEYOND THE EDGES OF THE PULL BOX.
13. GROUND CLAMP MUST BE SILICON BRONZE WITH COPPER FASTENERS AND BE NRTL CERTIFIED FOR CONCRETE ENCASEMENT OR DIRECT BURIAL.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JULY 2026

AO

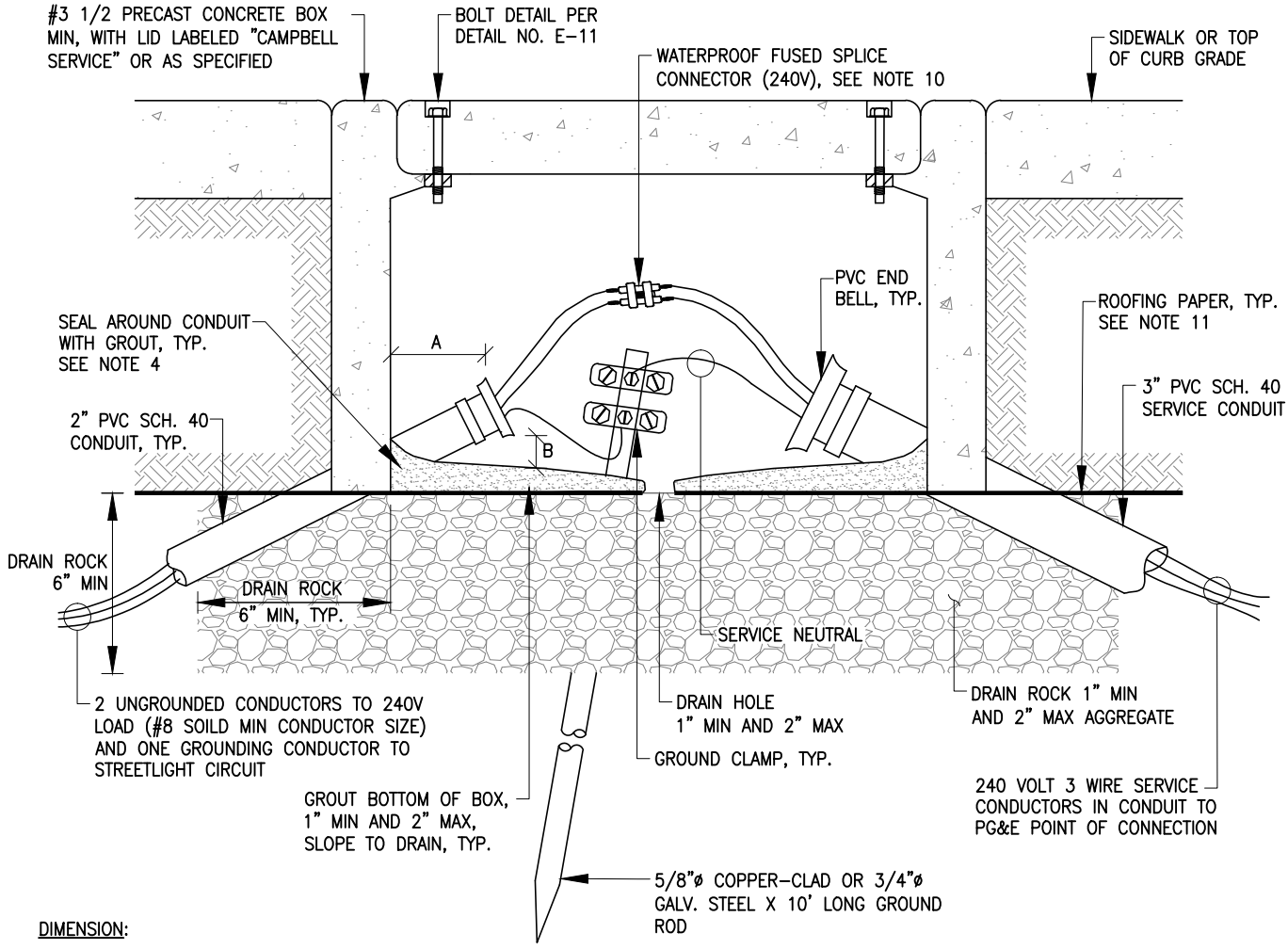
AMY OLAY
PUBLIC WORKS DIRECTOR

UNDERGROUND STREETLIGHT PULL BOX

NTS

DETAIL NO.

E-3



DIMENSION:

A: 1" MIN AND 2" MAX (TYP. ALL CONDUITS)

B: 1" MIN AND 2" MAX ABOVE GROUT (TYP. ALL CONDUITS)

NOTES:

1. PLACE SERVICE PULL BOX WITHIN 2 FEET OF PG&E SERVICE POINT PER DETAIL NO. E-1 AND NO. E-7.
2. PROVIDE 3' OF SLACK IN ALL CONDUCTORS (SLACK NOT SHOWN).
3. STREETLIGHT CONDUCTORS SHALL BE AS SHOWN (240V), OR AS SPECIFIED.
4. GROUT SHALL BE PRECISION NON-SHRINK CONSTRUCTION TYPE.
5. CONDUIT ENTERING BOX SHALL BE AT A 45° ANGLE.
6. PULL BOX, CONDUIT, DIMENSIONS, AND BOLT DETAILS SHALL BE PER DETAIL NO. E-3 AND NO. E-11.
7. WATERPROOF (HEAT-SHRINK) SPLICE SHALL BE PER CALTRANS ES-13A ELECTRICAL SYSTEMS (SPLICE INSTALLATION METHODS DETAILS). SPLICE NOT SHOWN.
8. ALL BONDING AND GROUNDING CONDUCTORS SHALL BE BARE STRANDED COPPER #8 AWG UNLESS NOTED OTHERWISE.
9. ALL NEUTRAL AND UNGROUNDED CONDUCTORS SHALL BE THW OR TW SOLID COPPER #8 AWG UNLESS NOTED OTHERWISE.
10. WATERPROOF FUSED SPLICE CONNECTOR SHALL BE EATON BUSSMANN TRON HEB-AA (120V) OR HEX-AA (240V), MERSEN FEB-11-11, FEX-11-11, OR APPROVED EQUAL. FUSE(S) SHALL BE BUSSMANN FNQ30 (30AMP), MERSEN ATQ30, EXCEPT SERVICE FOR A SINGLE STREETLIGHT SHALL BE FNQ10 (10AMP) OR APPROVED EQUAL. INSULATE TERMINALS PER NOTE 7.
11. EDGES OF THE ROOFING PAPER SHALL EXTEND BEYOND THE EDGES OF THE PULL BOX.
12. GROUND CLAMP MUST BE SILICON BRONZE WITH COPPER FASTENERS AND BE NRTL CERTIFIED FOR CONCRETE ENCASEMENT OR DIRECT BURIAL.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JULY 2026

AO

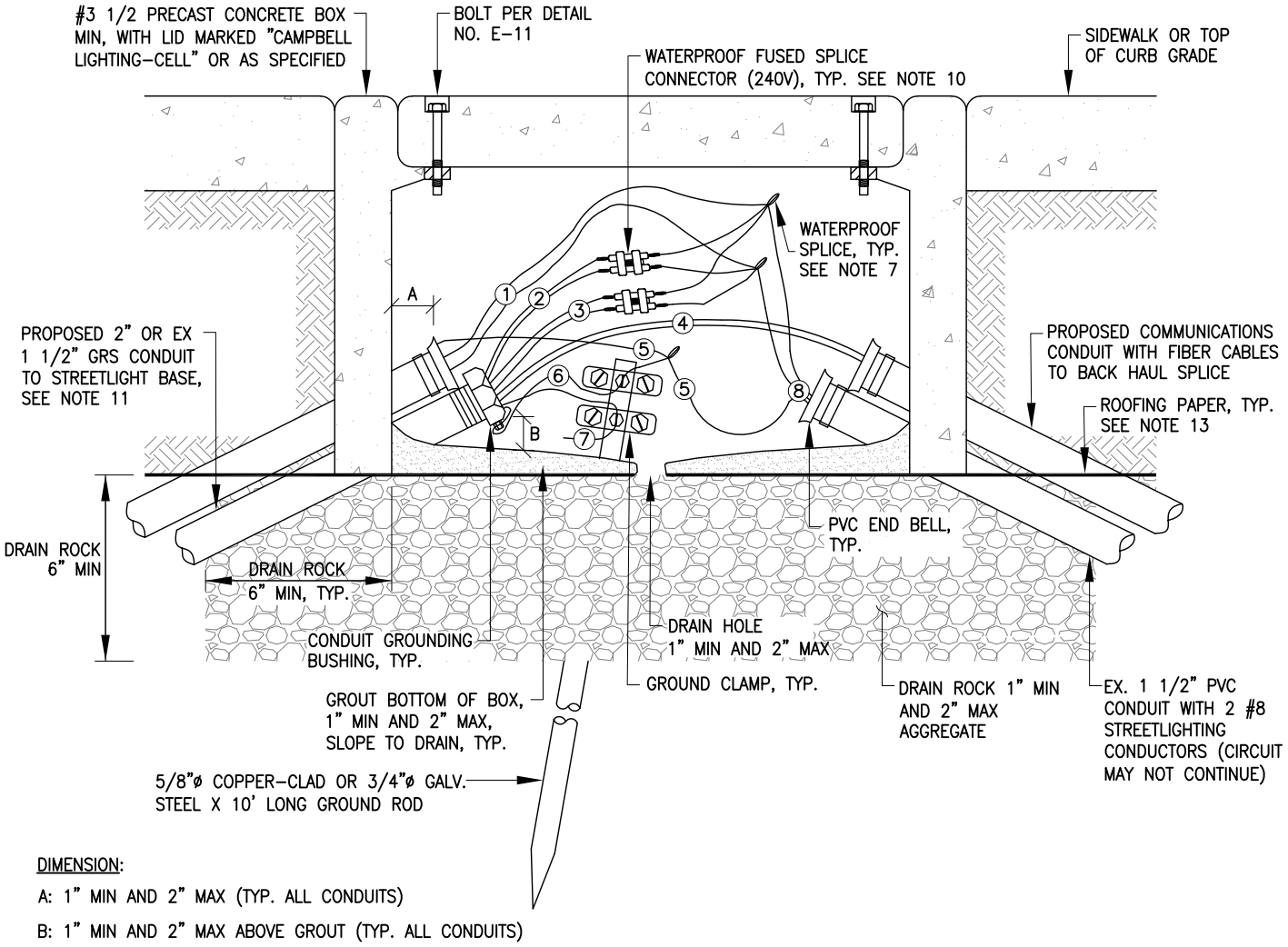
AMY OLAY
PUBLIC WORKS DIRECTOR

UNDERGROUND STREETLIGHT SERVICE

NTS

DETAIL NO.

E-4



DIMENSION:

A: 1" MIN AND 2" MAX (TYP. ALL CONDUITS)

B: 1" MIN AND 2" MAX ABOVE GROUT (TYP. ALL CONDUITS)

CONDUCTOR TABLE, SEE NOTE 12	
SYMBOL	DESCRIPTION
①	EX. UNGROUNDED 2 #8 STREETLIGHTING FEEDER TO CONNECTION TO STREETLIGHT SERVICE
②	PROPOSED UNGROUNDED 2 #12 SMALL CELL TO PG&E APPROVED SMALL CELL (SMART POLE) COMBINATION METER DISCONNECT
③	REMOVE & INSTALL UNGROUNDED 2 #10 STREET LIGHTING 240V LOAD
④	PROPOSED COMMUNICATIONS FIBER OPTIC CABLES (JUMPER)
⑤	#8 STREETLIGHTING GROUND
⑥	REMOVE & INSTALL #8 STREETLIGHTING GROUND
⑦	PROPOSED #8 SMALL CELL GROUND TO GROUND BUS IN SMALL CELL (SMART POLE) COMBINATION METER DISCONNECT
⑧	EX. #8 UNGROUNDED CONDUCTORS AND 1 #8 GROUNDING CONDUCTOR TO STREETLIGHT 240V LOAD (FOR CIRCUITS WITH MULTIPLE STREETLIGHTS)

SEE NOTES IN DETAIL NO. E–5.2.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AMY OLAY
PUBLIC WORKS DIRECTOR

UNDERGROUND STREETLIGHT PULL BOX FOR BRANCH CIRCUIT AND SMALL CELL

NTS

DETAIL NO.

E–5.1

NOTES:

1. PULL BOX PLACEMENT AND SPACING PER DETAIL NO. E-1, NO. E-2, AND NO. E-7.
2. PROVIDE 3' OF SLACK IN ALL CONDUCTORS (SLACK NOT SHOWN).
3. STREETLIGHT CONDUCTORS SHALL BE AS SHOWN (240V), OR AS SPECIFIED.
4. GROUT SHALL BE PRECISION NON-SHRINK CONSTRUCTION TYPE.
5. CONDUIT ENTERING BOX SHALL BE AT A 45° ANGLE.
6. PULL BOX, CONDUIT, DIMENSIONS, AND BOLT DETAILS SHALL BE PER DETAIL NO. E-3 AND NO. E-11.
7. WATERPROOF (HEAT-SHRINK) SPLICE SHALL BE PER CALTRANS ES-13A ELECTRICAL SYSTEMS (SPLICE INSTALLATION METHODS DETAILS).
8. ALL BONDING AND GROUNDING CONDUCTORS SHALL BE BARE STRANDED COPPER, #8 AVE, UNLESS NOTED OTHERWISE.
9. ALL NEUTRAL AND UNGROUNDED CONDUCTORS SHALL BE THW OR TW SOLID COPPER, #8 AWG UNLESS NOTED OTHERWISE.
10. WATERPROOF FUSED SPLICE CONNECTOR SHALL BE EATON BUSSMANN TRON HEB-AA (120V) OR HEX-AA (240V), FERRAZ SHAWMUT FEB-11-11, FEX-11-11, OR APPROVED EQUAL. FUSE(S) SHALL BE BUSSMANN BAF6 (6 AMP), FERRAZ OTK6, OR APPROVED EQUAL. INSULATE TERMINALS PER NOTE 7.
11. 3 CELL CONDUIT DIVIDER 6" VISIBLE (MAXCELL OR APPROVED EQUAL) SHALL BE PLACED IN CONDUIT TO STREETLIGHT BASE (DIVIDER NOT SHOWN). INSTALL THE FOLLOWING IN SEPARATE CELLS: STREETLIGHTING, SMALL CELL, CITY FUTURE (EMPTY).
12. ALL SMALL CELL CONDUCTORS AND CABLES SHALL BE LABELED "CELL". THE TYPE OF LABEL SHALL BE PER CALTRANS ES-13B TYPICAL BANDING DETAILS. ALL UNGROUNDED STREETLIGHT FEEDERS BETWEEN THE STREETLIGHT AND STREETLIGHT SERVICE SHALL BE LABELED "ST LT CELL".
13. EDGES OF THE ROOFING PAPER SHALL EXTEND BEYOND THE EDGES OF THE PULL BOX.
14. GROUND CLAMP MUST BE SILICON BRONZE WITH COPPER FASTENERS AND BE NRTL CERTIFIED FOR CONCRETE ENCASEMENT OR DIRECT BURIAL.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

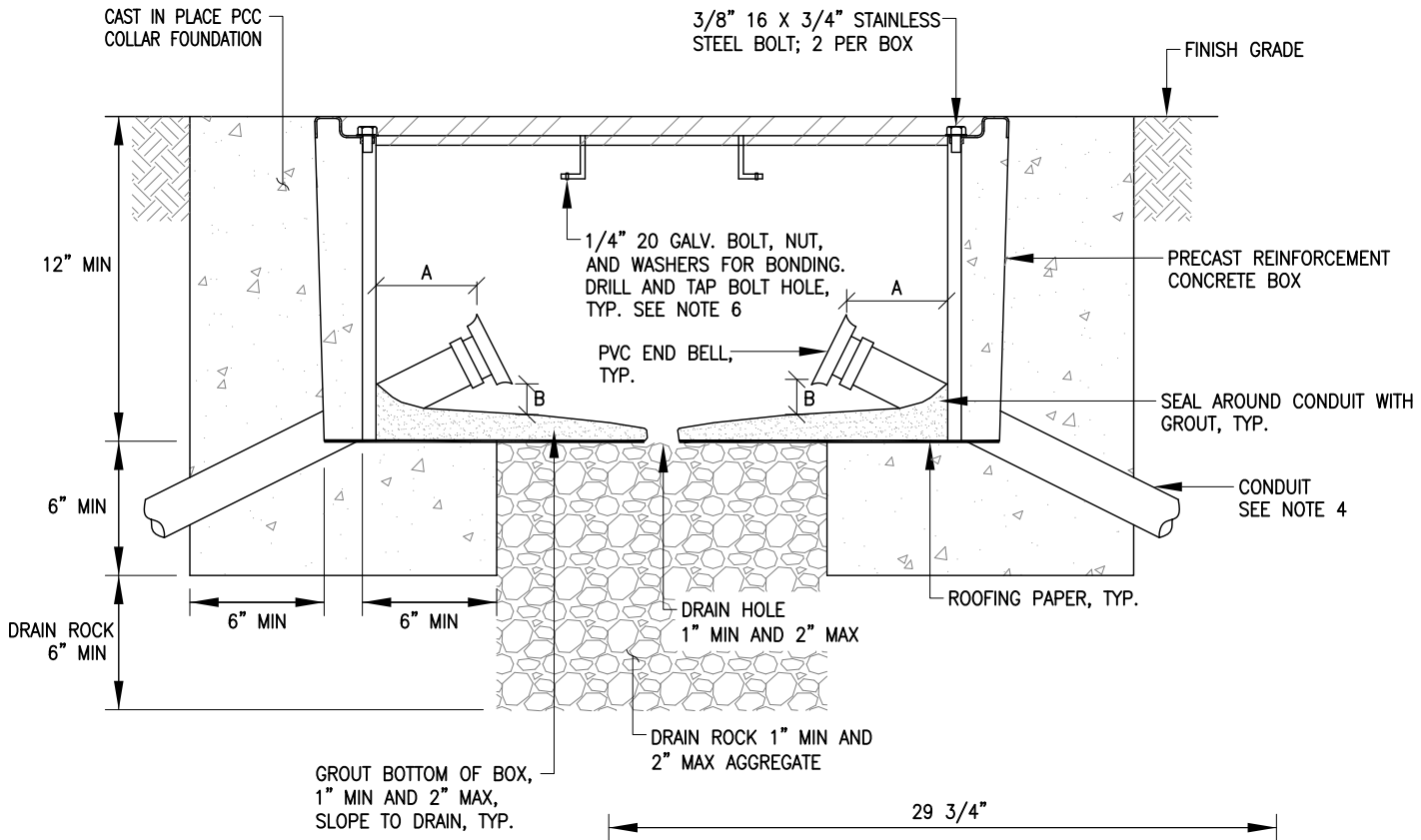
AMY OLAY
PUBLIC WORKS DIRECTOR

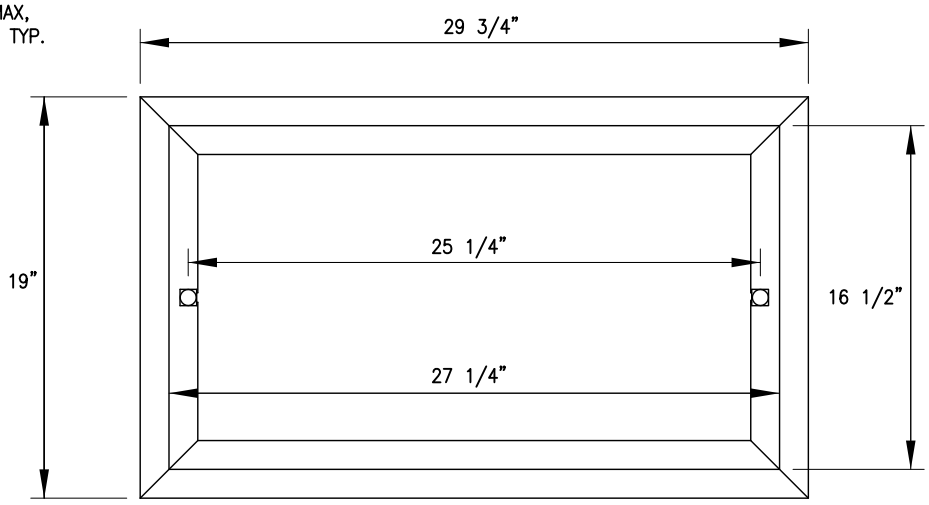
UNDERGROUND STREETLIGHT PULL BOX FOR BRANCH CIRCUIT AND SMALL CELL - NOTES

NTS

DETAIL NO.

E-5.2





PLAN VIEW

DIMENSION:
A: 1" MIN AND 2" MAX (TYP. ALL CONDUITS)
B: 1" MIN AND 2" MAX ABOVE GROUT (TYP. ALL CONDUITS)

NOTES:

1. APPLICATION: PLACED IN CONDUIT RUNS IN AREAS WHERE BOX IS SUBJECT TO VEHICULAR TRAFFIC LOAD.
2. PROVIDE 3' OF SLACK IN ALL CONDUCTORS (SLACK NOT SHOWN).
3. GROUT SHALL BE PRECISION NON-SHRINK CONSTRUCTION TYPE.
4. CONDUIT ENTERING BOX SHALL BE AT A 45° ANGLE.
5. PULL BOX, CONDUIT, DIMENSIONS, AND APPURTENANCES SHALL BE PER DETAIL NO. E-3 AND NO. E-11.
6. CONNECT 36" BRAIDED COPPER BONDING JUMPER WITH FERRULES RATED 90A (MINIMUM) BETWEEN STEEL LID AND GROUND ROD. JUMPER, GROUND ROD, AND GROUND CLAMP MUST BE INSTALLED (NOT SHOWN).

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

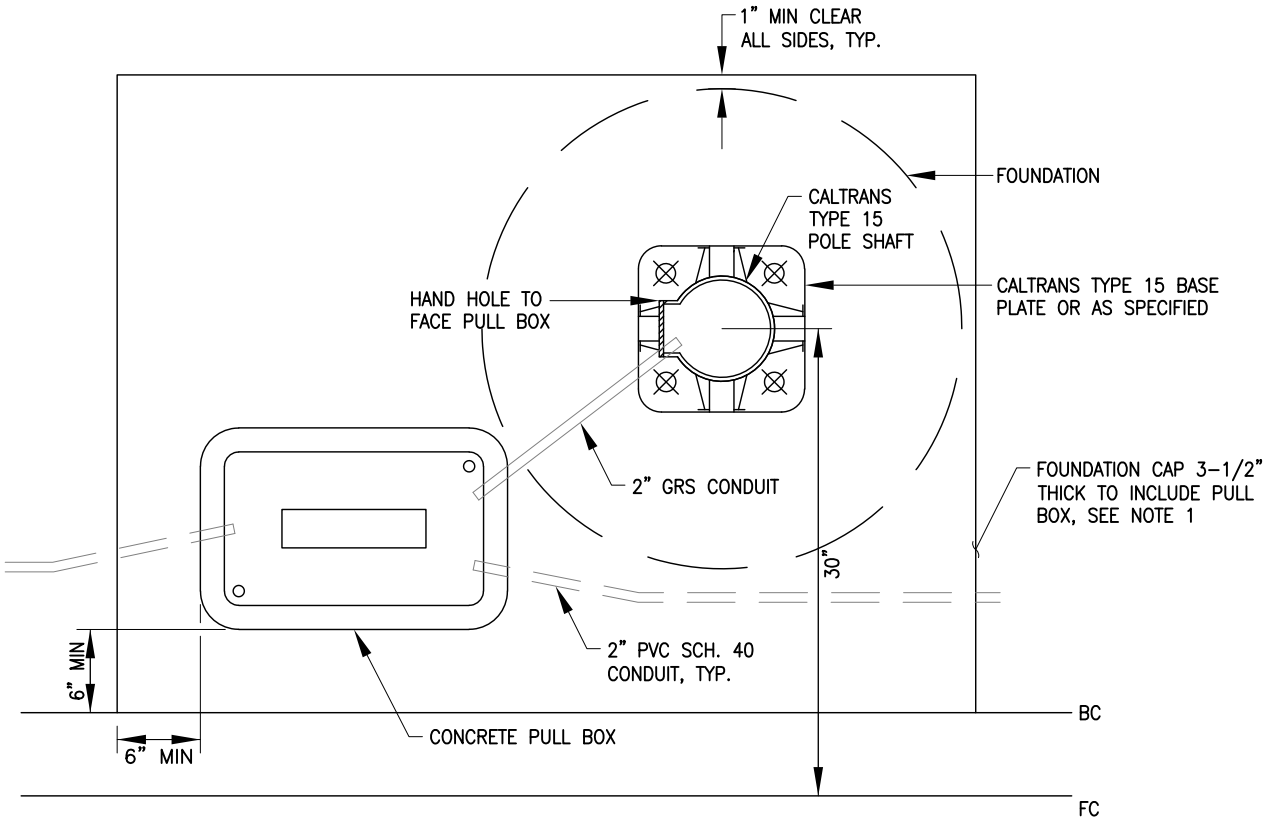
AMY OLAY
PUBLIC WORKS DIRECTOR

UNDERGROUND STREETLIGHT PULL BOX - TRAFFIC

NTS

DETAIL NO.

E-6



NOTES:

1. EXTEND FOUNDATION CAP TO SIDEWALK AND CURB FOR ELECTROLIERS IN PLANTING STRIP LESS THAN 4' WIDE.
2. REDUCE THE DISTANCE BETWEEN CENTER OF THE POLE FOUNDATION AND FACE OF CURB TO 22" FOR ATTACHED WALK LESS THAN 76" WIDE. INSTALL THE WALK PER DETAIL NO. C-10, "SIDEWALK WITH OBSTRUCTIONS".

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

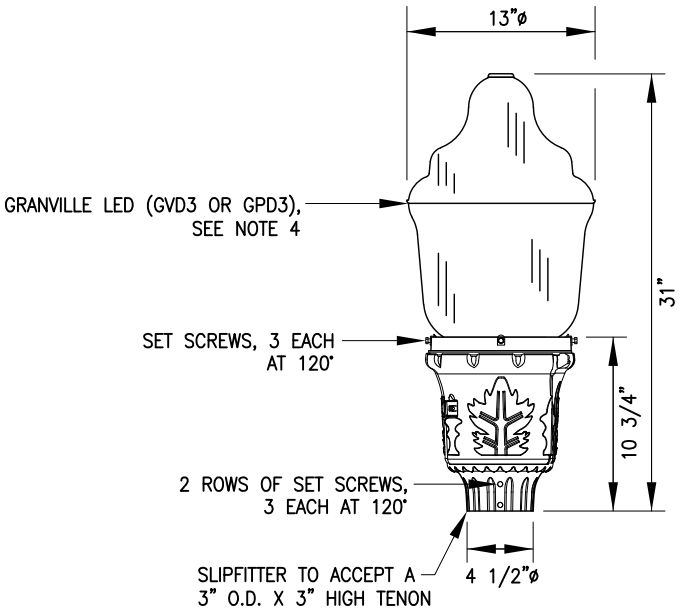
AMY OLAY
PUBLIC WORKS DIRECTOR

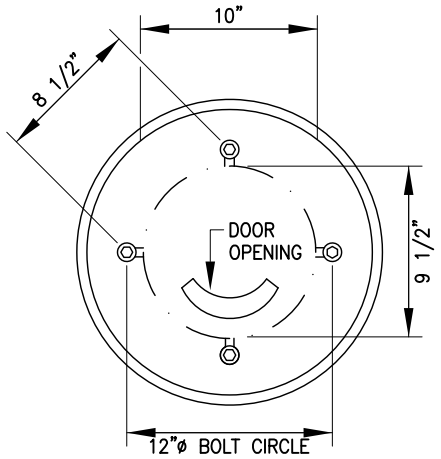
ELECTROLIER/PULL BOX & FOUNDATION CAP

NTS

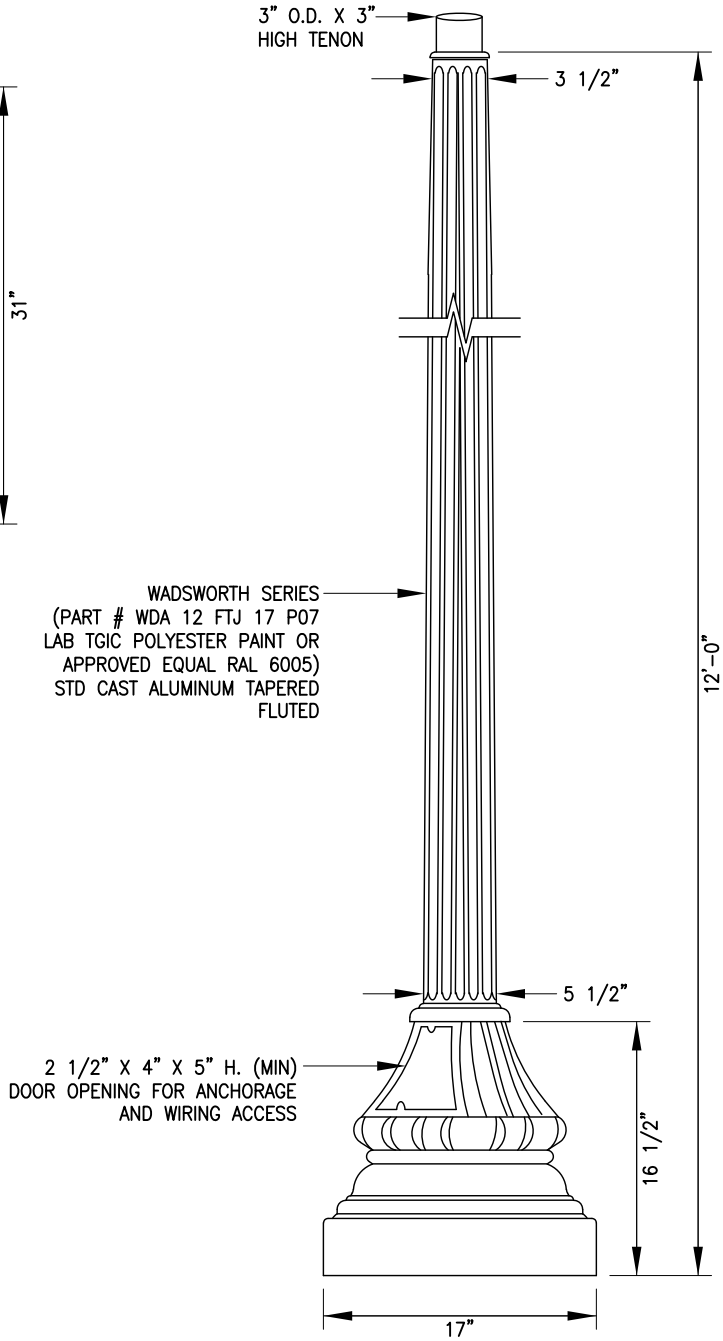
DETAIL NO.

E-7





ANCHORAGE DETAIL



NOTES:

1. POLES SHALL BE PRE-PAINTED FROM THE MANUFACTURER.
2. IF PAINT IS DAMAGED ON THE EXISTING POLES, EXISTING POLES ARE TO BE REPAINTED AS SPECIFIED BELOW:
   A. PREPARE ALL PAINTED SURFACES UNDER THE PROVISIONS OF THE SOCIETY FOR PROTECTIVE COATINGS (SSPC-SP2), 'SURFACE PREPARATIONS NO.2," AND SSPC-AP 3, INCLUDING REMOVING DIRT, DUST, OIL, RUST, AND CONTAMINANTS, LIGHTLY SAND TO ROUGHEN AND DE-GLOSS, AND CLEAN AND DRY.
   B. PRIMER SHALL BE MIXED IN A MULTI-STAGE PROCESS. CARBOTHANE #890 EPOXY PRIMER OR APPROVED EQUAL.
   C. FINISH COAT SHALL BE MIXED IN A TWO STAGE PROCESS. CARBOTHANE #134 MC, (MATCH COLOR RAL 6005) POLYURETHANE FINISH, OR APPROVED EQUAL.
3. FOUNDATION AND ANCHORAGE SHALL BE PER DETAIL NO. E-9.
4. CONFIRM MODEL NUMBER FOR LUMINAIRE, WATTAGE, COLOR TEMPERATURE, LIGHT DISTRIBUTION, AND SHIELDING WITH CITY ENGINEER. TYPICAL LUMINAIRE SHALL HAVE THE FOLLOWING FEATURES: LEAF STYLE SWING DOOR, TIGER DRYLAC (RAL6005), NO TRIM AND CLEAR, NO FINIAL, NEMA TWIST LOCK WITH LONG LIFE DARK-TO-LIGHT 7-PIN PHOTOCELL.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

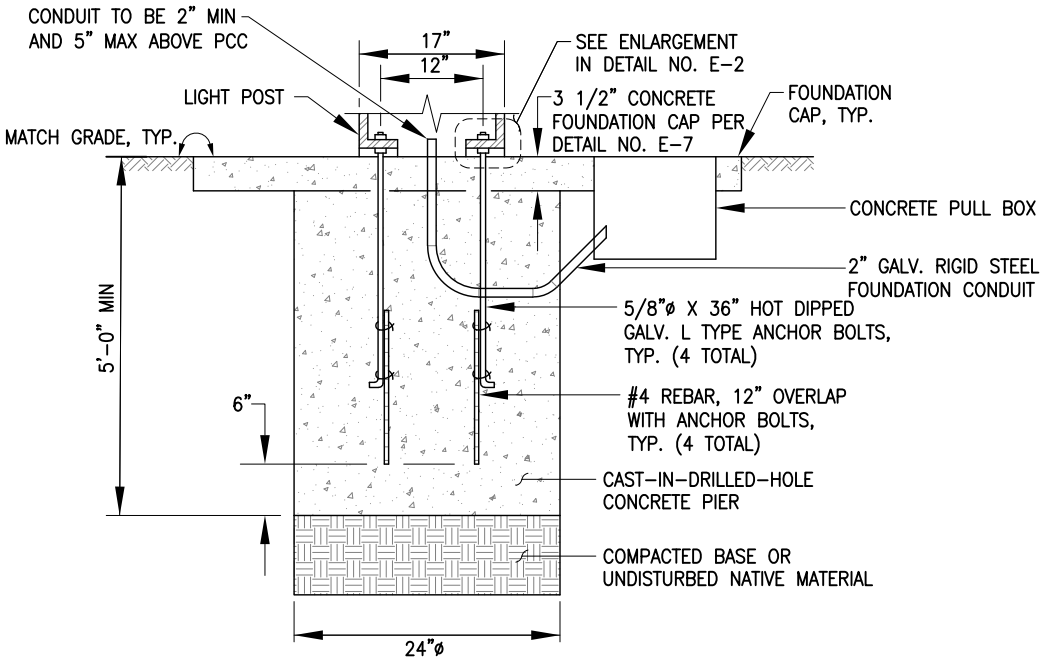
AMY OLAY
PUBLIC WORKS DIRECTOR

POST TOP DECORATIVE LIGHT

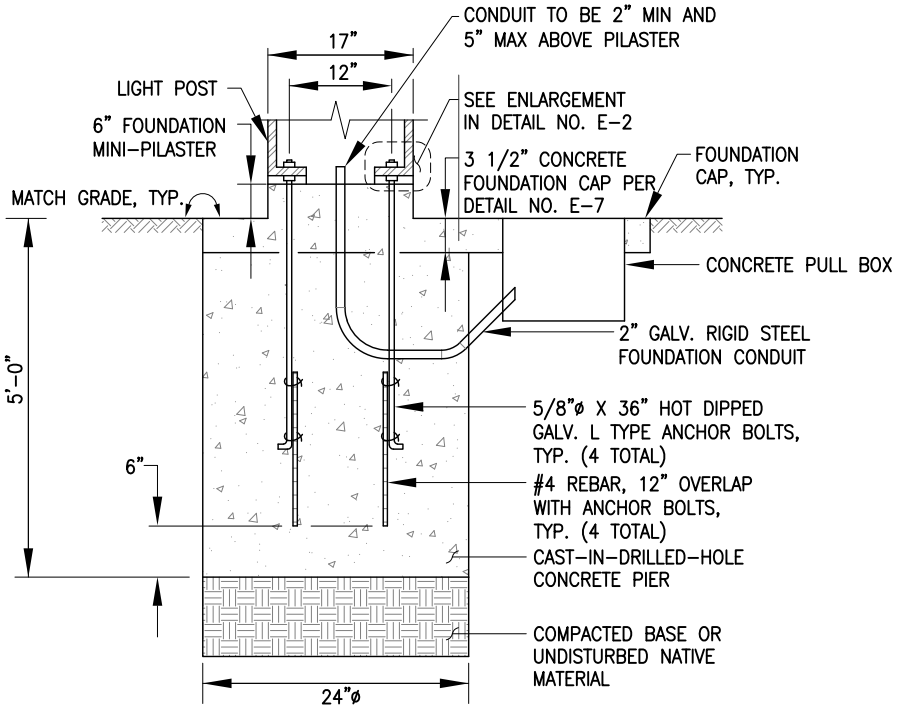
NTS

DETAIL NO.

E-8



SIDEWALK



LANDSCAPE

NOTES:

1. FOUNDATION CAP AND MINI-PILASTER SHALL BE POURED SEPARATELY FROM THE FOUNDATION.
2. FOUNDATION IS TO BE POURED MONOLITHIC AND SHALL BE 6 SACK 3/4" MIX OF PCC.
3. STOP FOUNDATION POUR 3 1/2" BELOW GRADE. PLACE FOUNDATION CAP AND MINI-PILASTER AFTER STANDARD IS SET AND PLUMBED.
4. CONDUIT ENTERING BOX SHALL BE AT A 45° ANGLE.
5. GROUND ROD AND FUSE HOLDER SHALL BE PLACED WITHIN THE PULL BOX.
6. PULL BOX AND FOUNDATION CAP PER DETAIL NO. E-7.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

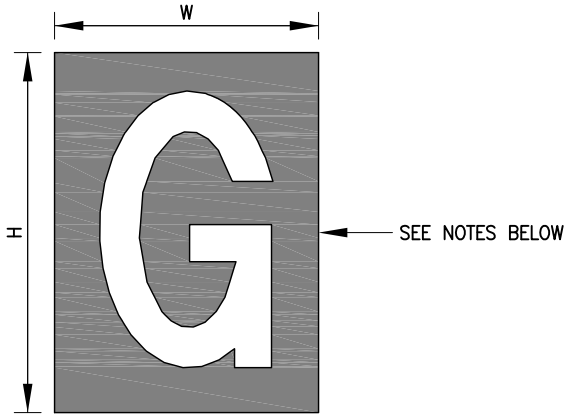
AMY OLAY
PUBLIC WORKS DIRECTOR

DECORATIVE STREETLIGHT FOUNDATION & ANCHORAGE (SIDEWALK AND LANDSCAPE)

NTS

DETAIL NO.

E-9



	LABEL WIDTH (W)	LABEL HEIGHT (H)	BRADY CATALOGUE NUMBER	TYPE OF POLES
SMALL LABELS	1"	1 1/2"	5905	POST TOP STREETLIGHT POLES
LARGE LABELS	1 3/8"	1 7/8"	5890	POST WITH STREETLIGHT EXCEPT FOR POST TOP

NOTES:

1. TYPE AND CHARACTER SIZE
   A. STICK-ON TYPE YELLOW REFLECTORIZED NUMBERS AND LETTERS ON BLACK BACKGROUND AND MATERIAL SHALL BE RETROREFLECTIVE AND WEATHER RESISTANT. SEE CHART ABOVE FOR LABEL SIZE AND STANDARD OF QUALITY.
2. INSTALLATION
   A. CLEAN THE POLE WITH ISOPROPYL ALCOHOL PRIOR TO INSTALLING LABELS.
   B. LABELS ARE TO BE PLACED FACING ONCOMING TRAFFIC, BOTTOM OF LABEL SHALL BE 10' ABOVE FINISH GRADE.
   C. LABELS ARE TO BE ALIGNED USING LEFT EDGE OF LABELS. LABELS SHALL OVERLAP WITH BOTTOM EDGE OF HIGHER LABEL OVER THE TOP EDGE OF LOWER LABEL.
3. MANUFACTURER
   A. BRADY LABEL COMPANY OR APPROVED EQUAL.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

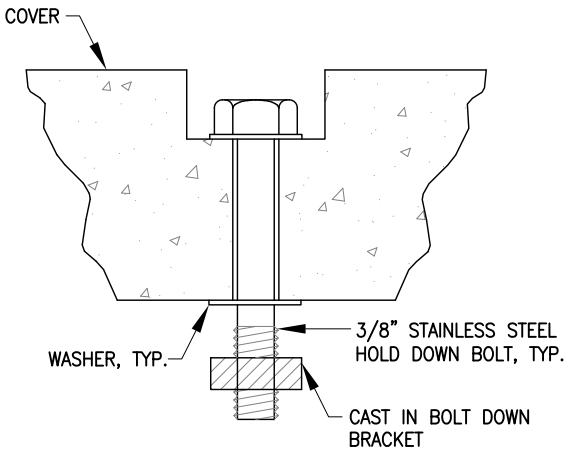
APPROVED FOR USE JANUARY 2026

AMY OLAY
PUBLIC WORKS DIRECTOR

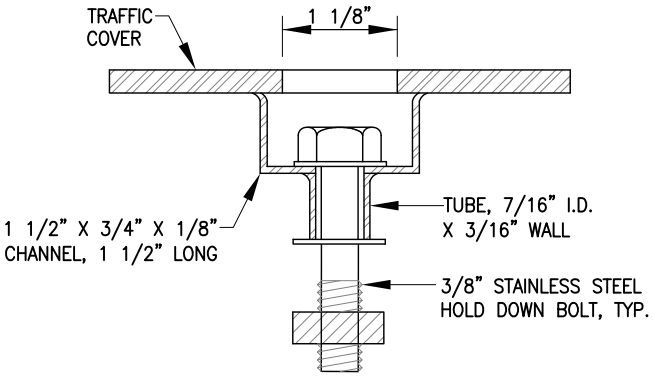
POLE LABELS

NTS

DETAIL NO.
E-10



HOLD DOWN BOLT DETAIL
NON-TRAFFIC COVER



HOLD DOWN BOLT DETAIL
TRAFFIC COVER

DIMENSION TABLE

	CONCRETE BOX		CONCRETE COVER				
PULLBOX	MIN THICKNESS	MIN DEPTH	LENGTH	WIDTH	CORNER RADIUS	EDGE THICKNESS	EDGE TAPER
NO. 3 1/2	1"	12"	15 1/2"	10"	1 1/8"	1 3/4"	1/8"
NO. 5	1"	12"	23 1/4"	13 3/4"	1 1/4"	2"	1/8"
NO. 6	1 1/2"	12"	30 1/2"	17 1/2"	1 1/4"	2"	1/8"

NOTE:

THE INSIDE DIMENSIONS OF THE TOP OF THE BOX MUST BE 1/8" GREATER THAN THE RESPECTIVE DIMENSIONS OF THE COVER.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

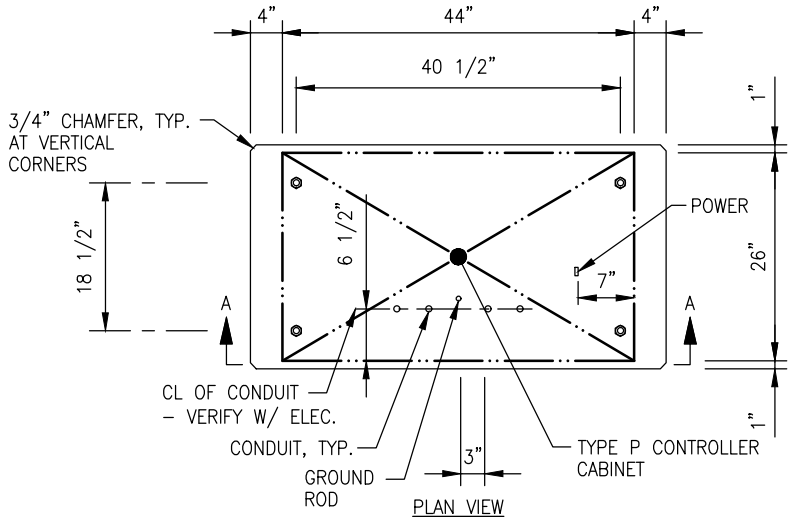
APPROVED FOR USE JANUARY 2026

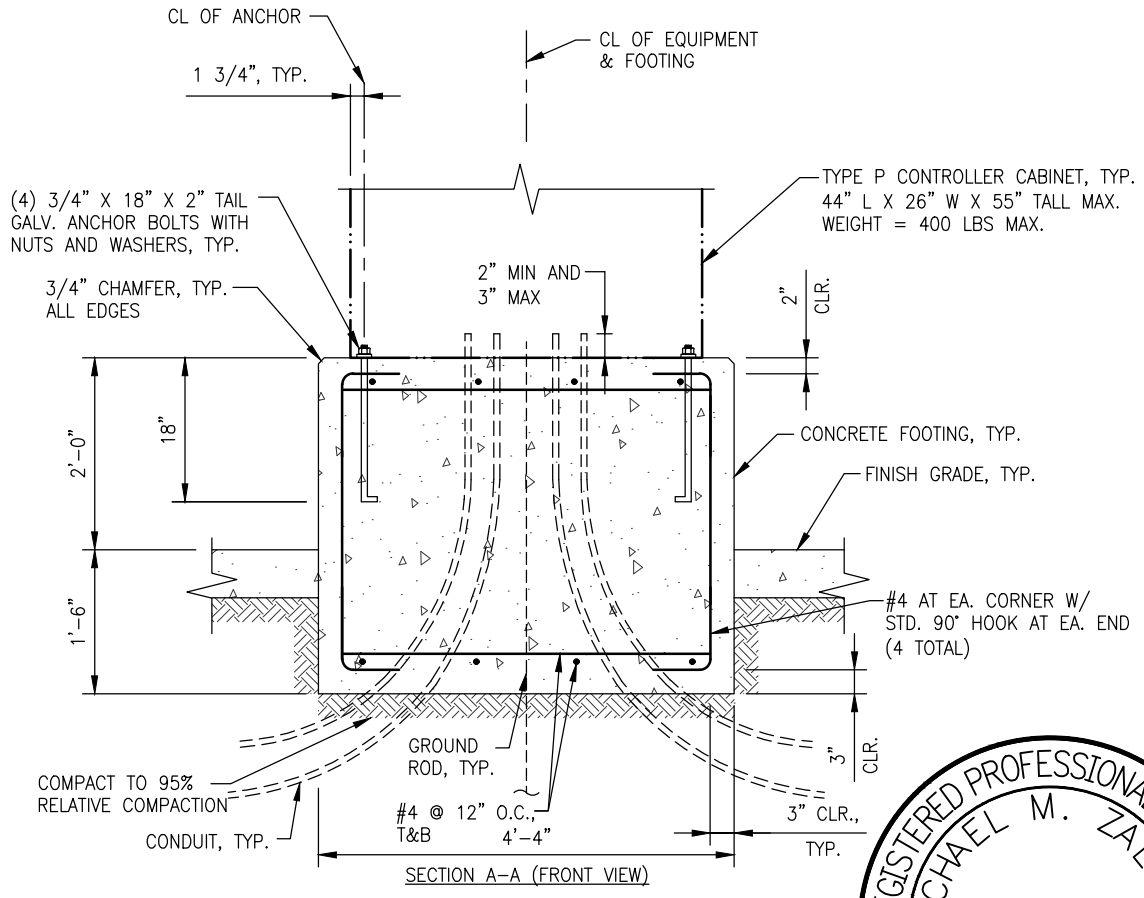
AMY OLAY
PUBLIC WORKS DIRECTOR

PULL BOX DIMENSIONS AND BOLT DETAILS

NTS

DETAIL NO.
E-11





NOTES:
1. EXACT LOCATION OF CONTROLLER CABINET SHALL BE AS SPECIFIED BY THE ENGINEER.
2. IN UNPAVED AREAS, A RAISED PCC PAD SHALL BE PLACED IN FRONT OF EACH CONTROLLER CABINET. PAD SHALL BE A MINIMUM OF 36" x 4" THICK x WIDTH OF FOUNDATION FOR TYPE P CABINETS. TOP OF PAD SHALL BE MINIMUM 2" ABOVE FINISHED GRADE.
3. ALL EQUIPMENT DIMENSIONS TO BE CONFIRMED.
4. THE GROUND ROD SHALL BE INSTALLED THROUGH THE FOUNDATION FOR MAX CONTACT IN UNDISTURBED SOIL.
5. AN APPROVED MASTIC OR CAULKING COMPOUND SHALL BE PLACED ON THE FOUNDATION PRIOR TO PLACING THE CABINET TO SEAL ALL OPENINGS BETWEEN BOTTOM OF CABINET AND FOUNDATION.



Signed: 01/14/2026

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

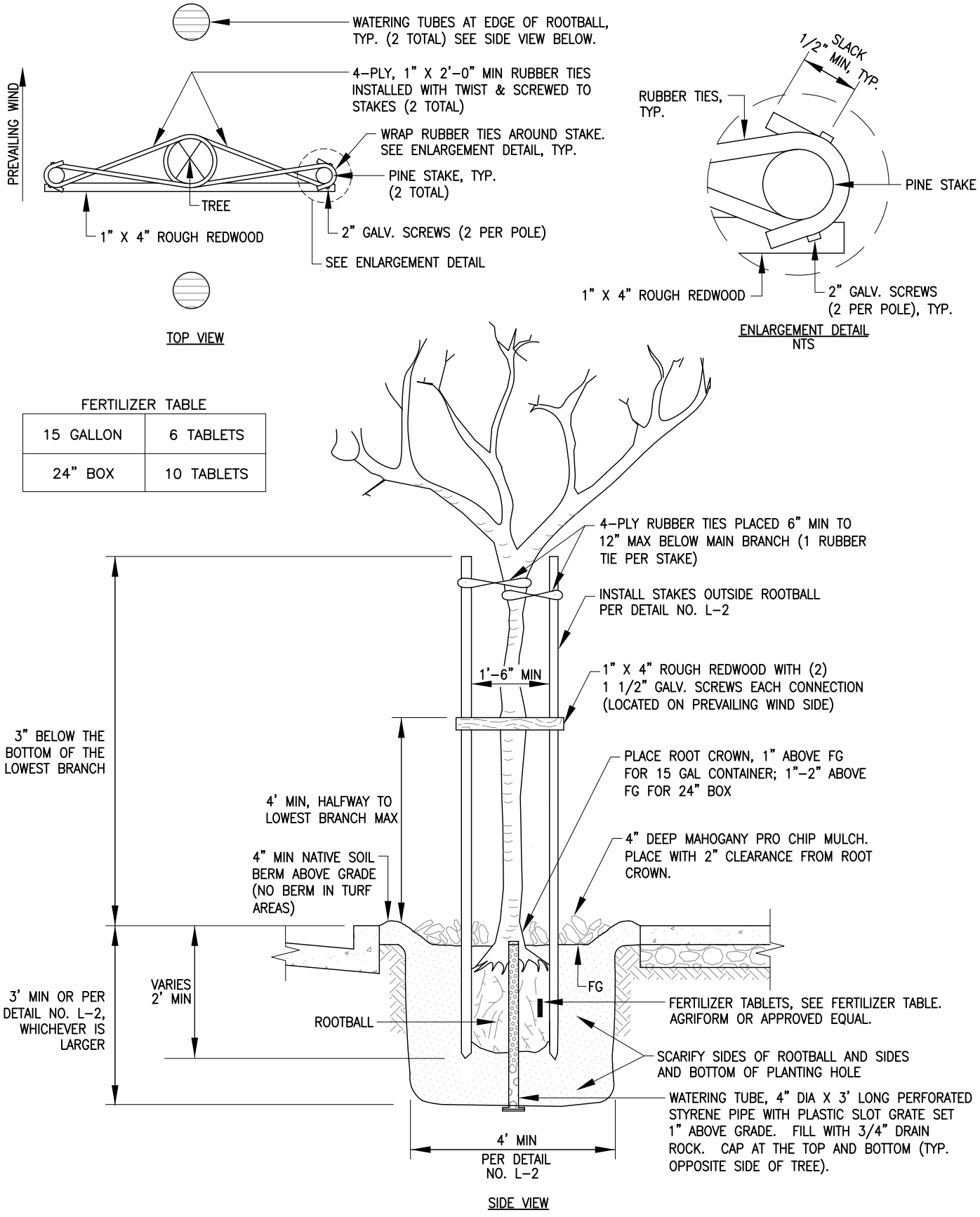
AMY OLAY, P.E.
PUBLIC WORKS DIRECTOR

MODIFIED TYPE P CONTROLLER CABINET ANCHORAGE & FOUNDATION

NTS

DETAIL NO.

E–12



CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

AMY OLAY
PUBLIC WORKS DIRECTOR

STREET TREE PLANTING & STAKING DETAIL

NTS

DETAIL NO.

L-1

TREE STAKING TABLE	
LEVEL OF STAKING	STAKING DESCRIPTION
SINGLE STEEL STAKE SYSTEM	STEEL STAKE SYSTEM SHALL BE READY STAKE OR APPROVED EQUAL, AND INSTALLED PER MANUFACTURER'S RECOMMENDATION.
DOUBLE STAKE SYSTEM	WOOD STAKE AS PER DETAIL NO. L–1. SEE TABLE BELOW FOR POLE SIZE.
TRIPLE STAKE SYSTEM	WOOD STAKE AS PER DETAIL NO. L–1, EXCEPT USES 3 STAKES PLACED IN A TRIANGULAR AND EQUAL SPACING WITH 2 ADDITIONAL CROSS BRACES TO COMPLETE TRIANGULAR BRACING. SEE TABLE BELOW FOR POLE SIZE.
QUADRUPLE STAKE SYSTEM	WOOD STAKE AS PER DETAIL NO. L–1, EXCEPT USES 4 STAKES IN A SQUARE PATTERN AND EQUAL SPACING, AND USES 2" LODGE POLES AS THE CROSS BRACE AND ATTACHED WITH 2 1/2" GALVANIZED SCREWS. SEE TABLE BELOW FOR POLE SIZE.

TREE POLE SIZE TABLE		
TREE SIZE	PLANTING HOLE SIZE	POLE SIZE
15 GALLON	3 X CONTAINER SIZE	2"
24" BOX OR LARGER	2 X CONTAINER SIZE	3"

NOTES (UNLESS OTHERWISE SPECIFIED IN THE PLANS OR SPECIAL PROVISIONS):

1. EACH TREE SHALL BE APPROVED BY THE CITY ARBORIST PRIOR TO PLANTING. CONTRACTOR MAY REQUEST CITY ARBORIST TO PRE–APPROVE TREE AT LOCAL NURSERY.
2. THE EXACT LOCATION OF EACH TREE SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLANTING.
3. VERTICALLY CUT THE ROOTBALL AT 3 OR 4 PLACES TO LOOSEN ROOTS AND DISCOURAGE CIRCLING.
4. FILL PLANTING HOLE WITH LOOSE SOIL TO GROUND LEVEL. CONTRACTOR MUST CALL CITY ARBORIST TO INSPECT PLANTING HOLE PRIOR TO SETTING TREE.
5. PLANTING HOLE OPERATIONS MUST BE FOLLOWED BY A DEEP, THOROUGH WATERING OF EACH TREE WITH A MINIMUM 15 GALLON OF POTABLE WATER.
6. ALL STREET TREES INSTALLED IN COMMERCIAL, INDUSTRIAL, AND HIGH–DENSITY RESIDENTIAL SHALL BE INSTALLED WITH AN IRRIGATION SYSTEM (FED FROM ON–SITE).
7. PLANTING HOLE SIZE FOR PARKSTRIP SHALL BE 2X CONTAINER SIZE, AND FOR MEDIAN ISLAND SHALL BE 3X CONTAINER SIZE.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

AMY OLAY
PUBLIC WORKS DIRECTOR

TREE STAKING TABLE AND NOTES

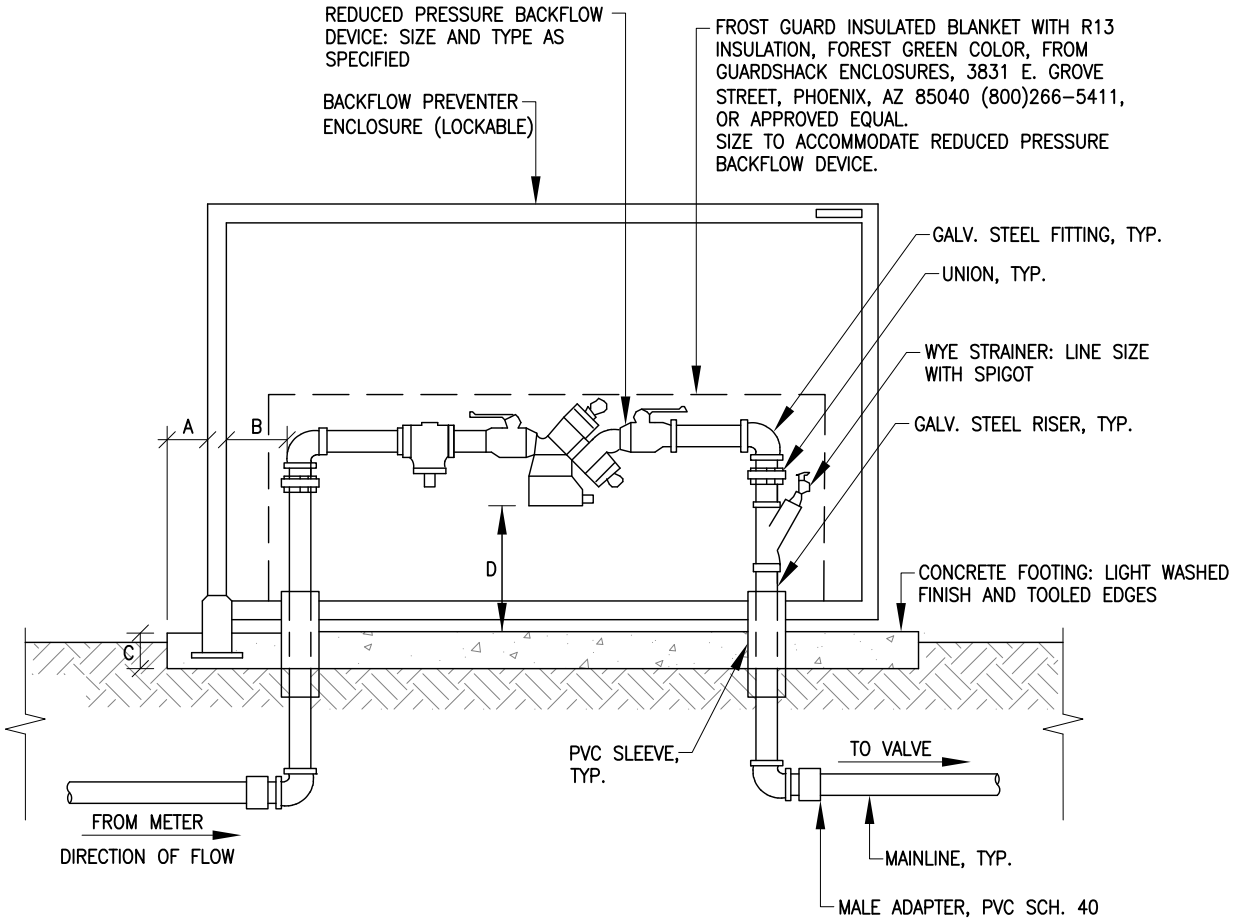
NTS

DETAIL NO.

L–2

DIMENSIONS

A	4" CLEAR
B	6" CLEAR
C	3 1/2"
D	1'–0"



NOTES:

1. UNLESS OTHERWISE INDICATED, MAKE AND MODEL OF EQUIPMENT SHALL BE AS SPECIFIED BY THE ENGINEER.
2. APPLY PIPE DOPE AT THREADED JOINT.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

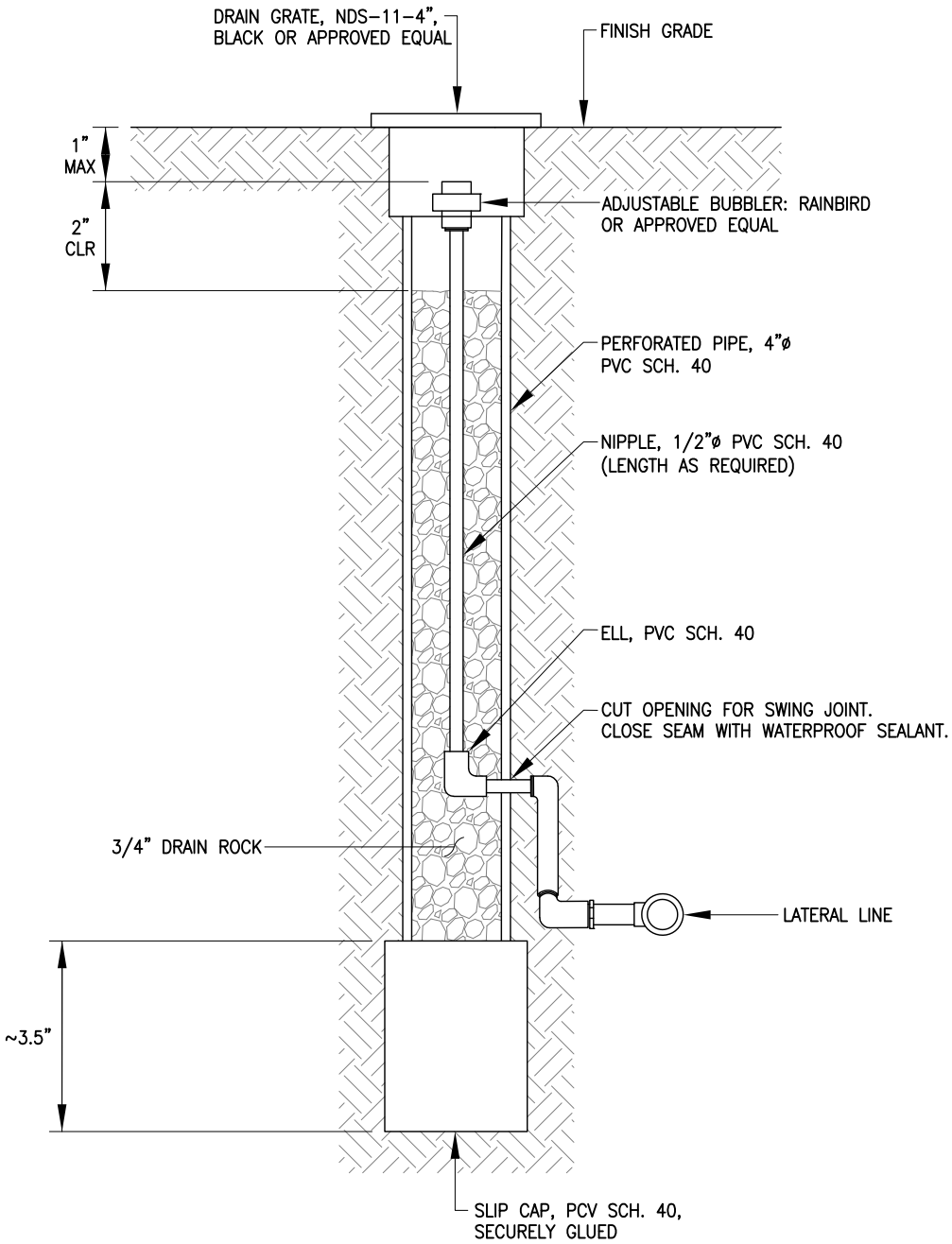
AMY OLAY
PUBLIC WORKS DIRECTOR

BACKFLOW PREVENTER

NTS

DETAIL NO.

L–3



NOTE:

UNLESS OTHERWISE INDICATED, MAKE AND MODEL OF EQUIPMENT SHALL BE AS SPECIFIED BY THE ENGINEER.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

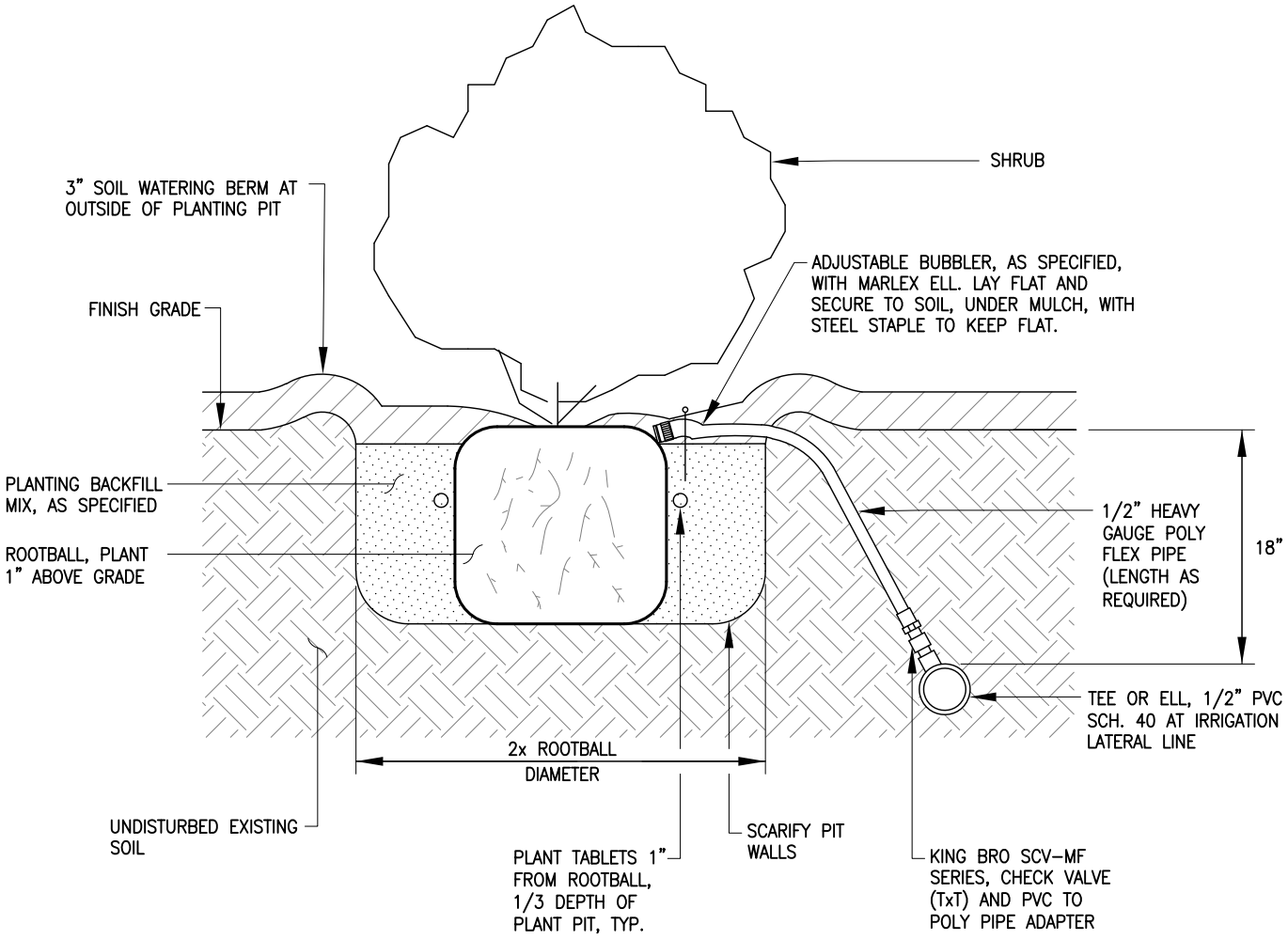
AMY OLAY
PUBLIC WORKS DIRECTOR

TREE BUBBLER

NTS

DETAIL NO.

L–4



NOTES:

1. INSTALL BUBBLER ON UPHILL SIDE OF PLANT WHERE APPLICABLE.
2. PLANT TABLETS TO BE APPROVED BY THE ENGINEER. NUMBER OF TABLETS SHALL BE PER MANUFACTURER'S RECOMMENDATION.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

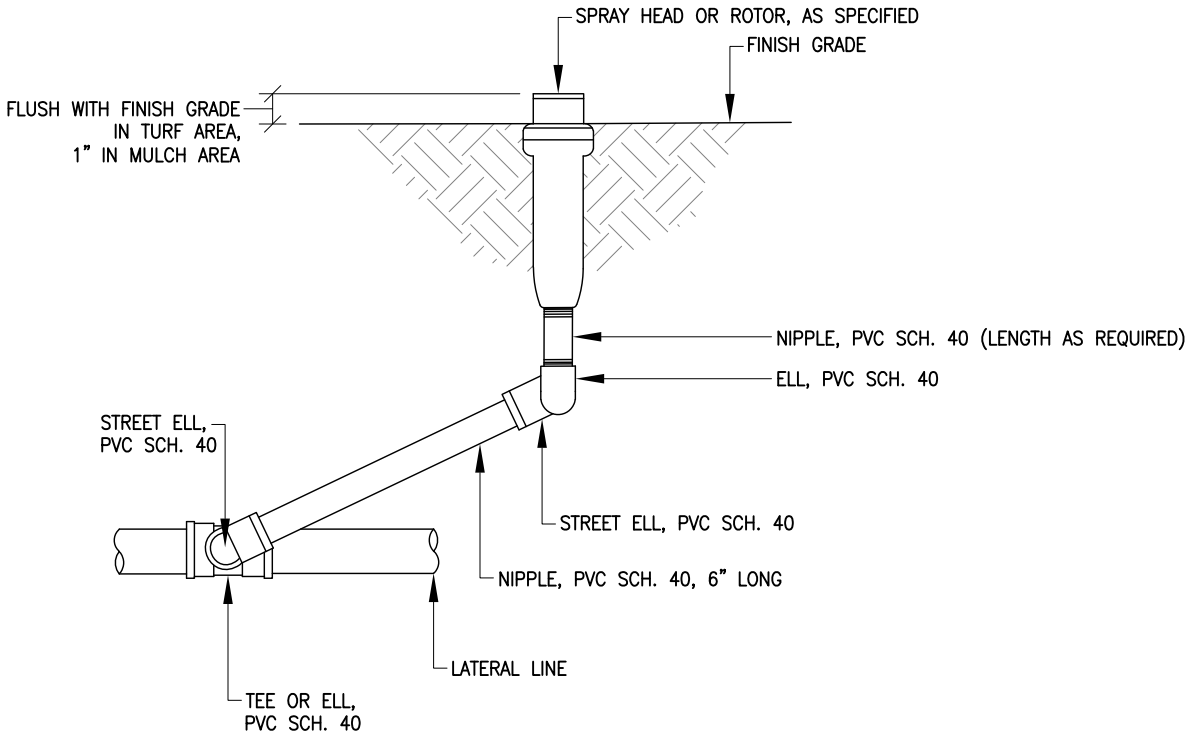
AMY OLAY
PUBLIC WORKS DIRECTOR

SHRUB PLANTING WITH BUBBLER

NTS

DETAIL NO.

L-5



NOTES:

1. ASSEMBLE ENTIRE UNIT AS TRIPLE SWING JOINT.
2. AS AN ALTERNATIVE TO THE ABOVE MATERIALS, "MARLEX" POLYETHYLENE FITTINGS OR APPROVED EQUAL MAY BE USED.
3. UNLESS OTHERWISE INDICATED, MAKE AND MODEL OF EQUIPMENT SHALL BE AS SPECIFIED BY THE ENGINEER.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

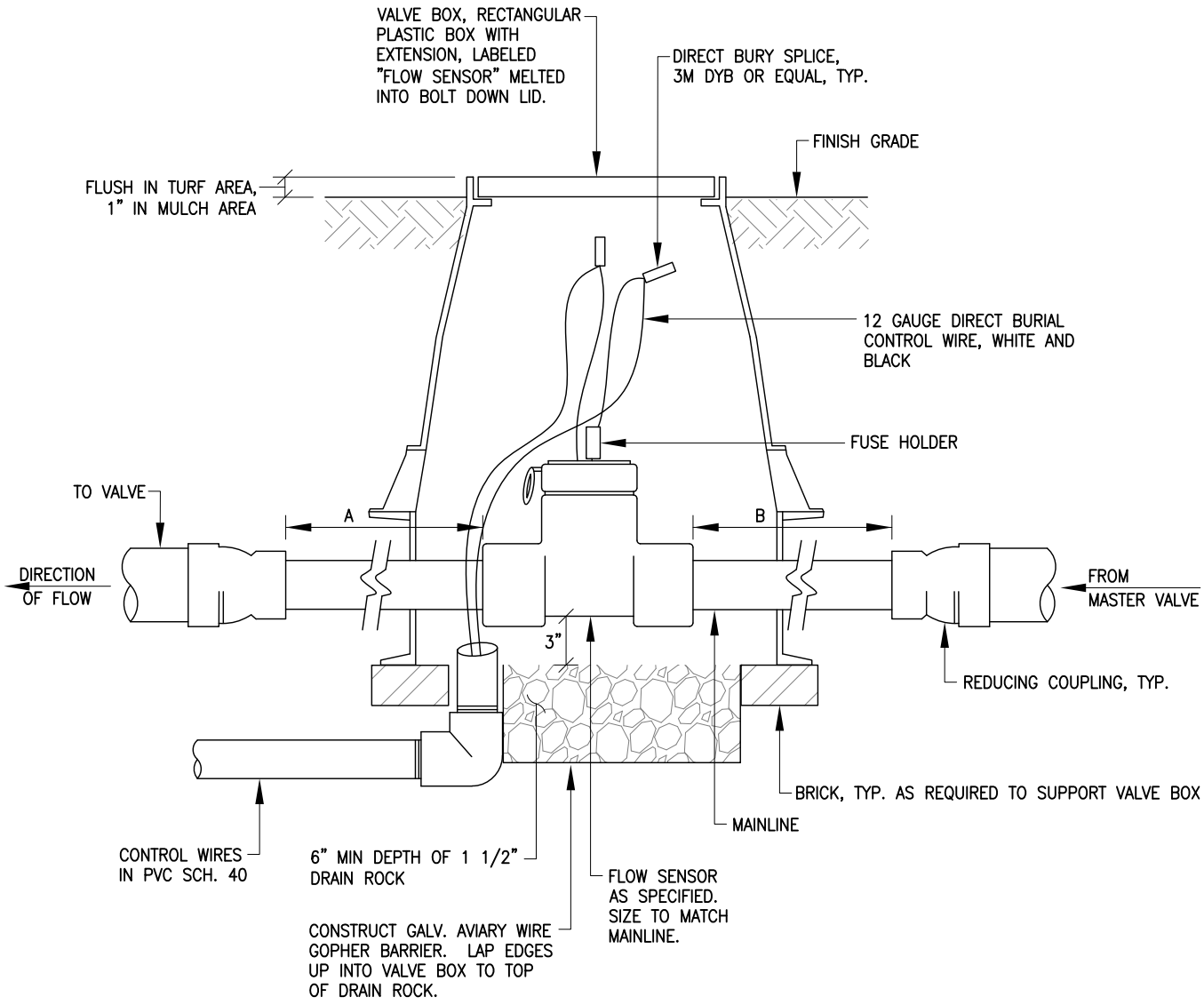
AMY OLAY
PUBLIC WORKS DIRECTOR

IRRIGATION HEAD

NTS

DETAIL NO.

L–6



NOTE:

A AND B ARE TO BE IN ACCORDANCE WITH FLOW SENSOR MANUFACTURER'S RECOMMENDATION.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

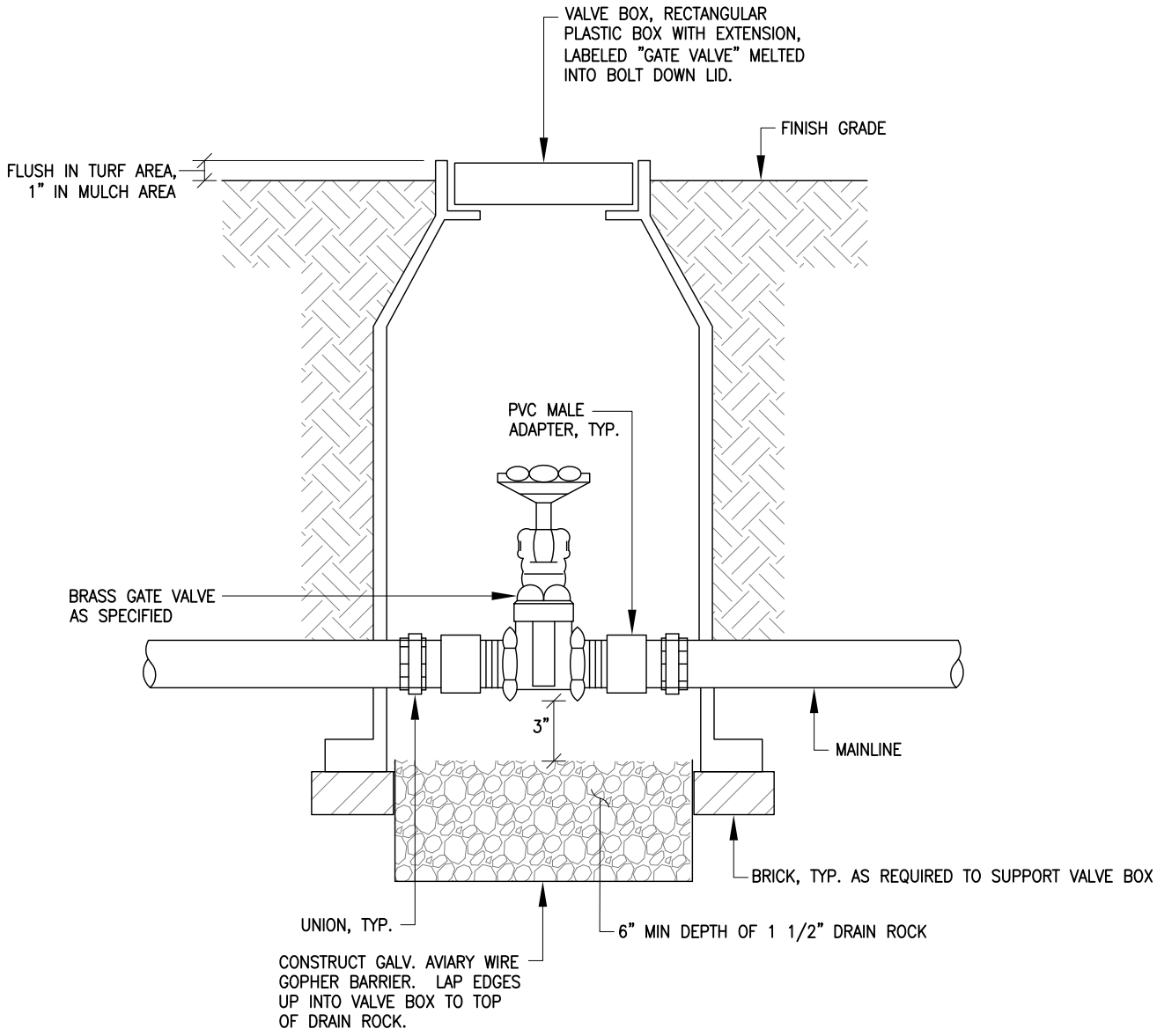
AMY OLAY
PUBLIC WORKS DIRECTOR

FLOW SENSOR & BOX

NTS

DETAIL NO.

L–7



NOTE:

UNLESS OTHERWISE INDICATED, MAKE AND MODEL OF EQUIPMENT SHALL BE AS SPECIFIED BY THE ENGINEER.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

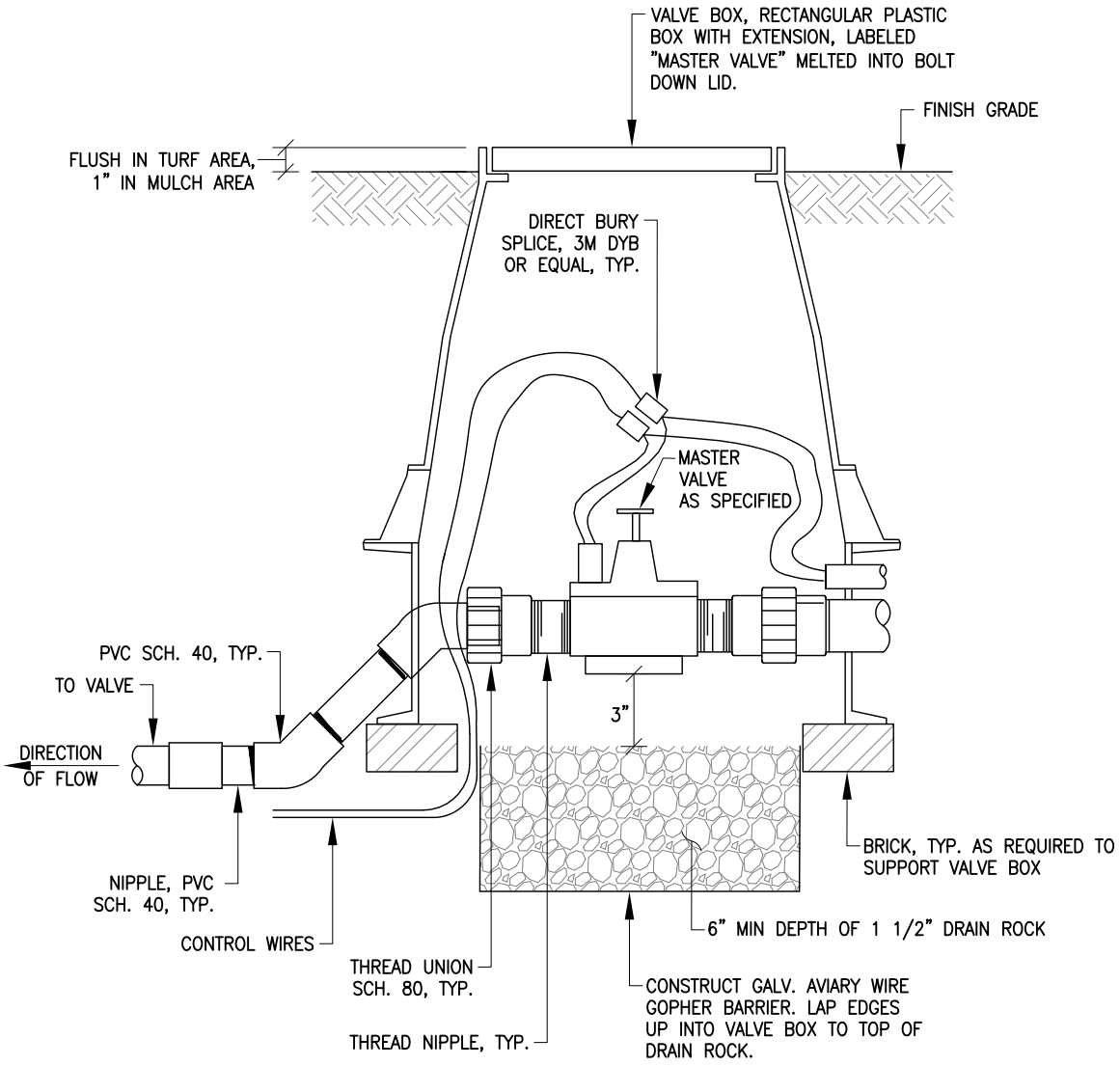
AMY OLAY
PUBLIC WORKS DIRECTOR

GATE VALVE & BOX

NTS

DETAIL NO.

L-8



NOTE:

UNLESS OTHERWISE INDICATED, MAKE AND MODEL OF EQUIPMENT SHALL BE AS SPECIFIED BY THE ENGINEER.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

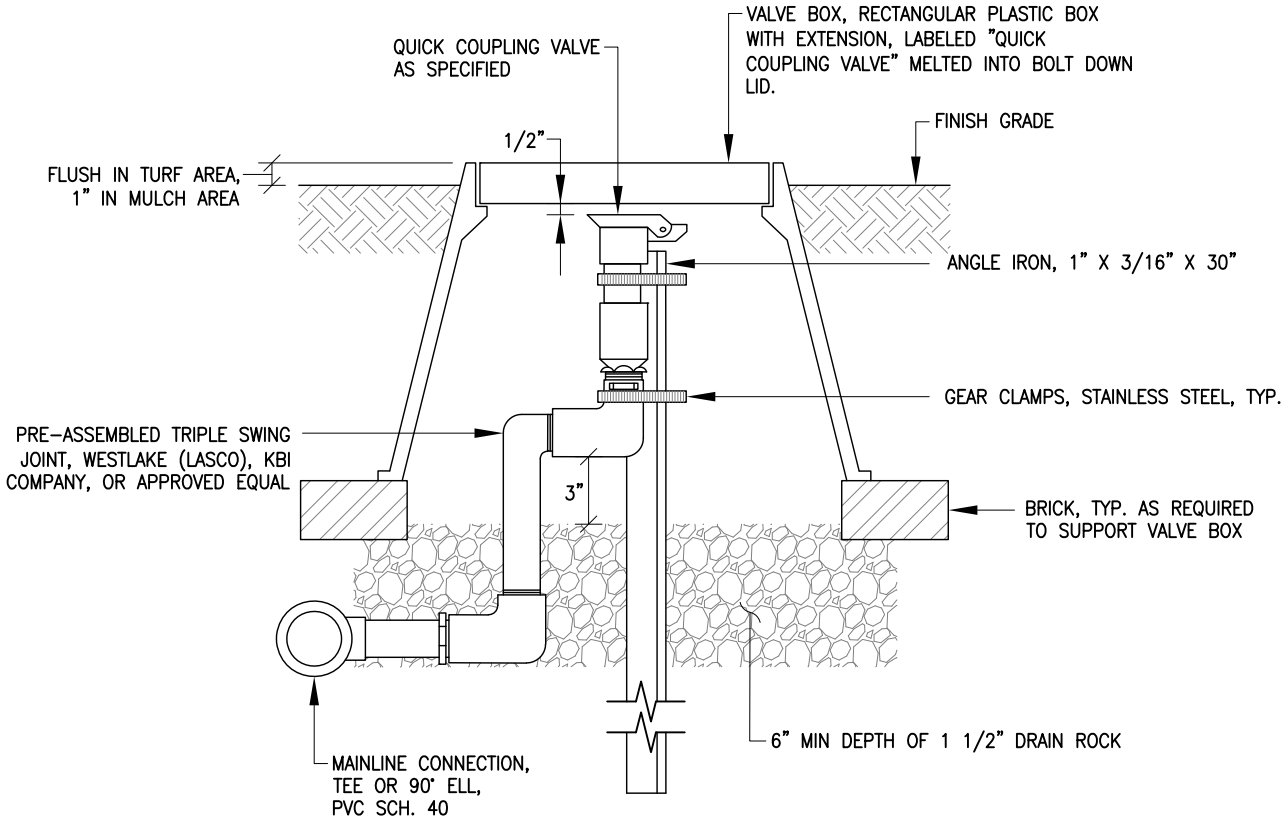
AMY OLAY
PUBLIC WORKS DIRECTOR

MASTER VALVE & BOX

NTS

DETAIL NO.

L–9



NOTE:

UNLESS OTHERWISE INDICATED, EQUIPMENT SHALL BE RAINBIRD OR AS SPECIFIED BY THE ENGINEER.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

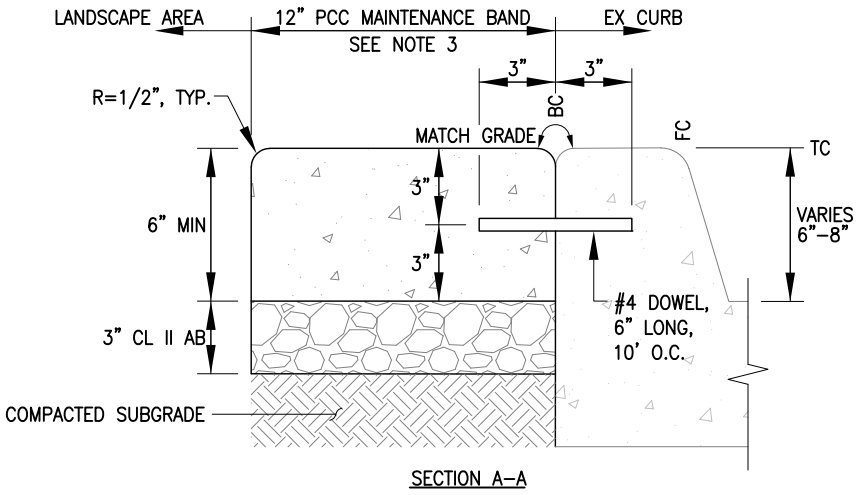
AMY OLAY
PUBLIC WORKS DIRECTOR

QUICK COUPLING VALVE & BOX

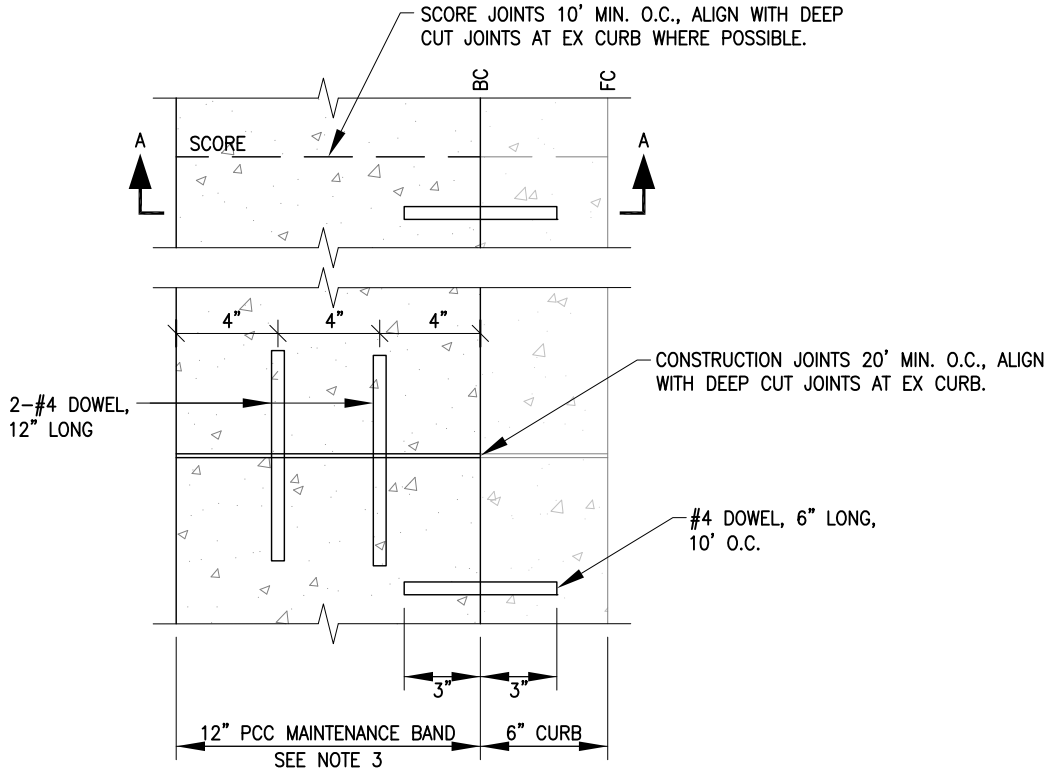
NTS

DETAIL NO.

L-10



SECTION A–A



PLAN VIEW

NOTES:

1. MEDIAN ISLAND WITH PCC CURB PER DETAIL NO. L–13 AND L–14.
2. CONCRETE SHALL BE PER STANDARD SPECIFICATIONS.
3. COLOR AND FINISHING OF PCC MAINTENANCE BAND SHALL BE AS SPECIFIED BY THE ENGINEER.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

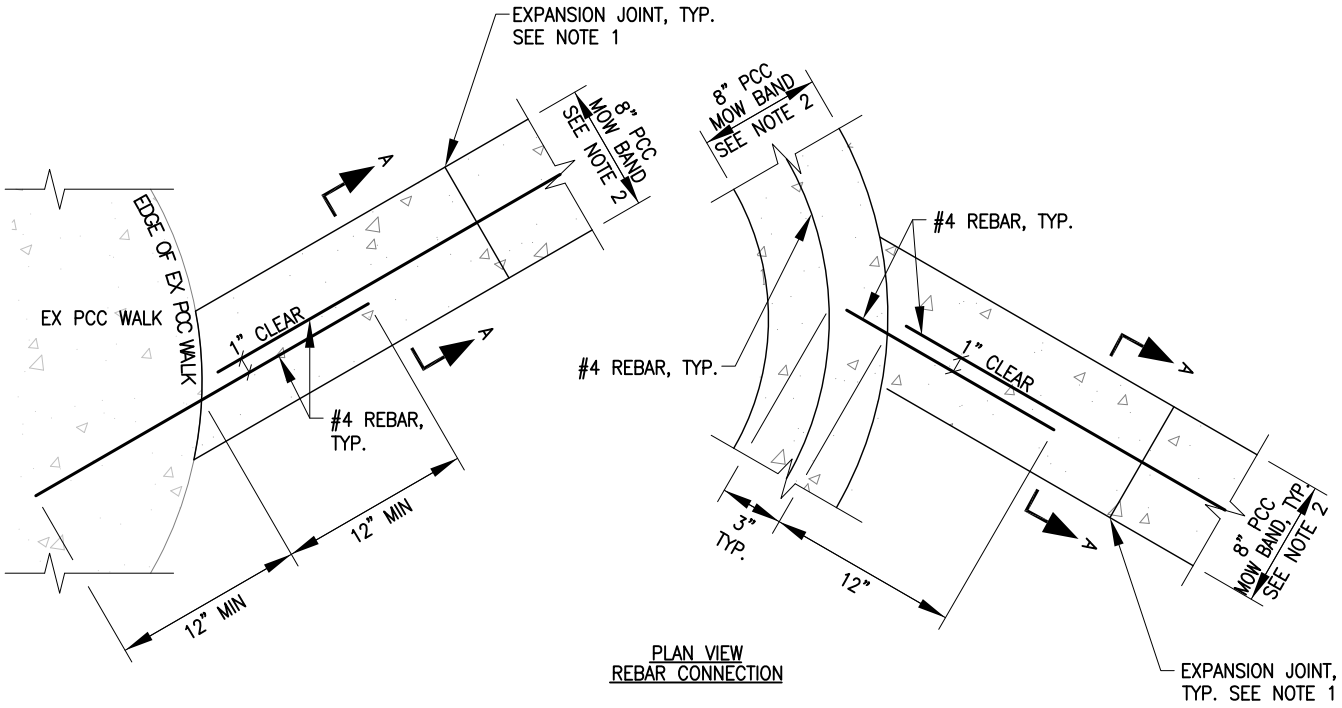
AMY OLAY
PUBLIC WORKS DIRECTOR

PCC MAINTENANCE BAND ADJACENT TO MEDIAN ISLAND

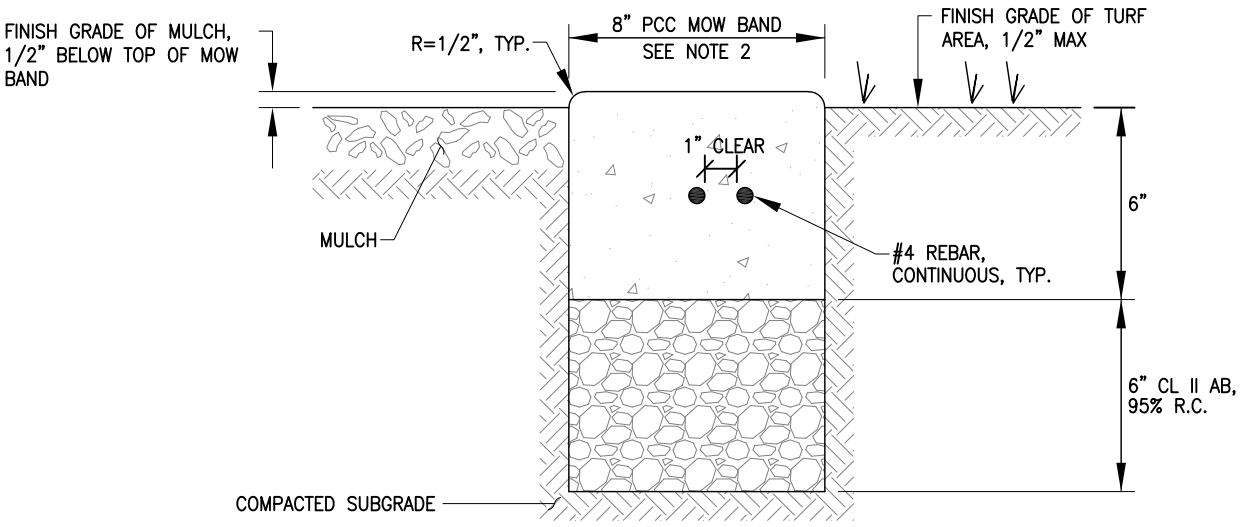
NTS

DETAIL NO.

L–11



PLAN VIEW
REBAR CONNECTION



SECTION A–A

NOTES:

1. CUT EXPANSION JOINTS AT 10 FEET MAX INTERVALS OR AS SHOWN ON THE PLAN.
2. TOP OF PCC MOW BAND SHALL BE NATURAL GRAY COLOR WITH MEDIUM BROOM FINISH.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

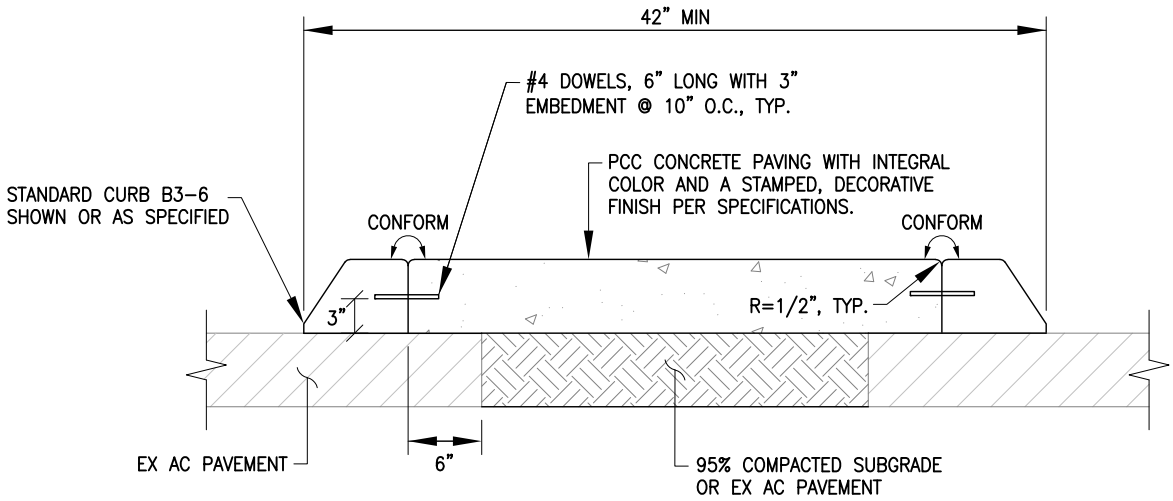
AMY OLAY
PUBLIC WORKS DIRECTOR

PCC MOW BAND AND SEPARATOR

NTS

DETAIL NO.

L–12



NOTE:

SCORING AND CONSTRUCTION JOINTS TO BE INSTALLED AT 5'-0" MIN.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

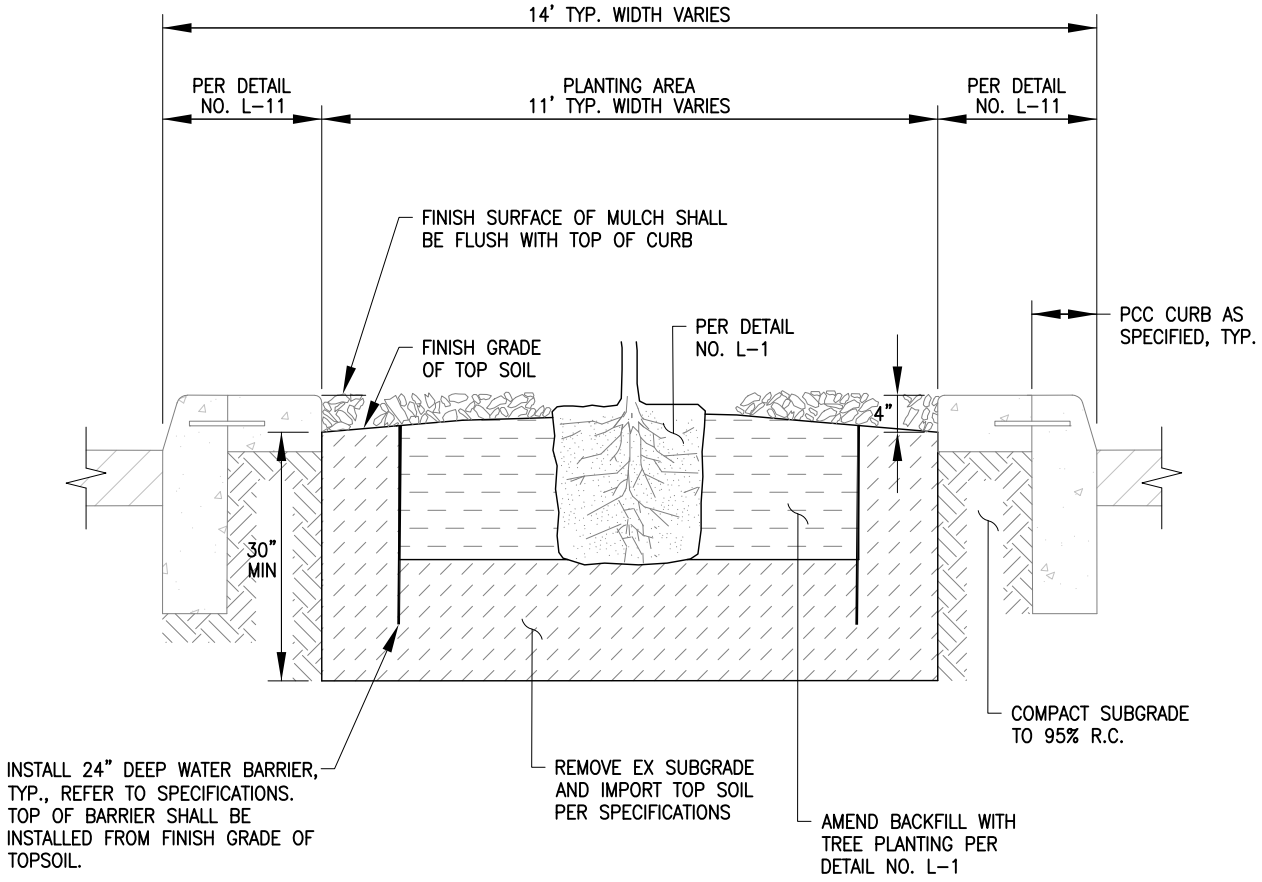
AMY OLAY
PUBLIC WORKS DIRECTOR

ISLAND NOSE FOR PLANTED MEDIAN

NTS

DETAIL NO.

L-13



CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AMY OLAY
PUBLIC WORKS DIRECTOR

PLANTED MEDIAN ISLAND WITH CONCRETE CURB

NTS

DETAIL NO.

L-14

NOTES:

1. UNLESS OTHERWISE NOTED, ALL PAVEMENT MARKERS, TRAFFIC LINES, AND PAVEMENT MARKINGS SHALL CONFORM WITH THE LATEST CALTRANS STANDARD PLANS A20A THROUGH A24H.
2. EXISTING PAVEMENT STRIPING, MARKINGS, AND MARKERS THAT ARE NOT TO BE REMOVED SHALL BE PROTECTED BY THE CONTRACTOR. ANY STRIPING, MARKINGS, OR MARKERS THAT ARE DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE RESTORED BY THE CONTRACTOR TO THE ORIGINAL CONDITION AT THE CONTRACTOR'S SOLE EXPENSE.
3. REFER TO CA MUTCD FOR ROADSIDE SIGN CODES AND SIGN PANEL DIMENSIONS.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

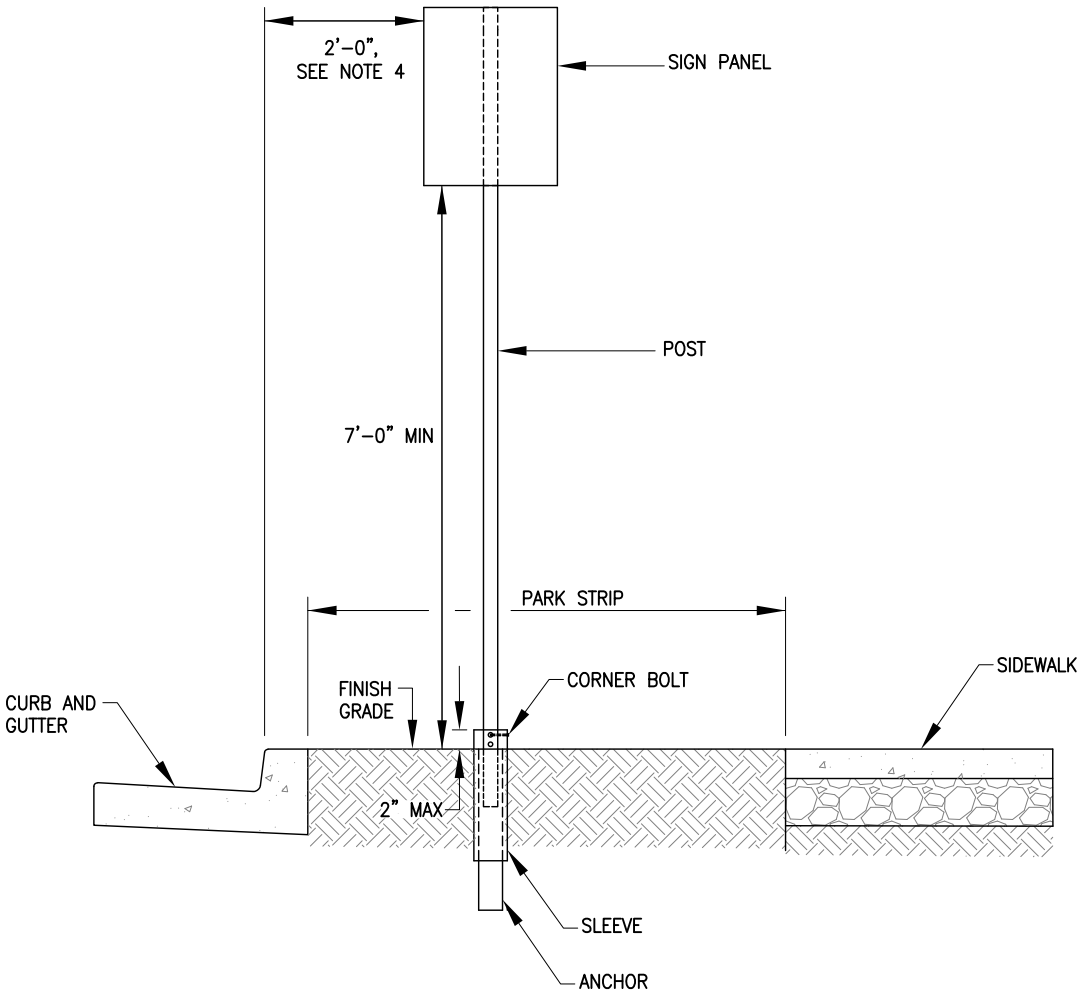
AMY OLAY
PUBLIC WORKS DIRECTOR

PAVEMENT MARKERS, TRAFFIC LINES, AND PAVEMENT MARKINGS NOTES

NTS

DETAIL NO.

SS-0



MATERIAL SCHEDULE

	SECTION	GAUGE	SIZE	LENGTH	EMBEDMENT
POST	SQUARE	14	2" X 2"	PER PLAN	6" – 8"
ANCHOR	SQUARE	12	2 1/4" X 2 1/4"	30"	28"
SLEEVE	SQUARE	12	2 1/2" X 2 1/2"	18"	16"

SEE NOTES IN DETAIL NO. SS-1.2.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AMY OLAY
PUBLIC WORKS DIRECTOR

POST & SIGN INSTALLATION

NTS

DETAIL NO.

SS-1.1

NOTES:

1. ANCHOR, POST, AND SLEEVE ASSEMBLY SHALL BE HOT ROLLED GALVANIZED STRIP STEEL SQUARE TUBES (STRUCTURAL QUALITY). PER ASTM A-653 GRADE 50, AND WELDED IN THE CORNER WITH 7/16" DIAMETER HOLES 1" ON CENTER ON ALL SIDES, AS MANUFACTURED BY TELESPAR.
2. POSTS SHALL BE POWDER COATED BLACK FOR INSTALLATION IN THE DOWNTOWN.
3. THE FURNISHED MEMBERS SHALL BE STRAIGHT AND HAVE A SMOOTH UNIFORM FINISH. CONSECUTIVE SIZES OF TUBES SHALL BE SLIDE FREELY WITH ONE ANOTHER WITH A MINIMUM AMOUNT OF PLAY. ALL HOLES AND CUT OFF ENDS SHALL BE FREE OF BURRS.
4. LOCATION OF PROPOSED SIGN SHALL BE VERIFIED WITH THE ENGINEER PRIOR TO INSTALLATION. SIGN MAY BE INSTALLED WITH SIGN PANEL LATERAL CLEARANCE FROM FACE OF CURB AT 1' MINIMUM WHERE LATERAL SPACE IS LIMITED.
5. SIDEWALKS SHALL HAVE A CLEAR SPACE OF 4' AROUND THE SIGN. REFER TO DETAIL NO. C-10 IF SIGN INSTALLATION CREATES SIDEWALK WIDTH LESS THAN 4'.
6. INSTALL ANCHOR AND SLEEVE WITH 2 HOLES ABOVE THE FINISH GRADE AND TOP OF POST AND SLEEVE SHALL BE NO MORE THAN 2" ABOVE THE FINISH GRADE. SEE MATERIAL SCHEDULE FOR EMBEDMENT IN DETAIL SS-1.1.
7. IF POST IS TO BE SET INTO SOIL, A 12" DIAMETER, 30" DEEP FOUNDATION SHALL BE INSTALLED AT THE BASE OF THE POST, USING CLASS C CONCRETE CONTAINING APPROX. 376 LBS OF PORTLAND CEMENT PER CY AND HAVE A 28-DAY COMPRESSIVE STRENGTH OF NOT LESS THAN 2000 PSI). THE BASE OF THE TELESPAR POST SHALL BE SECURELY WRAPPED IN DUCT TAPE TO PREVENT CONCRETE FROM ENTERING THROUGH THE HOLES AND INTO THE CENTER OF THE POST.
8. IF POST IS TO BE SET IN CONCRETE, CORE DRILL 4" DIAMETER HOLE FOR ANCHOR AND SLEEVE. BACKFILL WITH GROUT.
9. ATTACH SIGN PANEL(S) TO POST USING TELESPAR DRIVE RIVETS. TWO (2) RIVETS PER SIGN.
10. TELESPAR SIGN HOLDER CONNECTOR BRACKETS (MODEL #TL019, 45° ANGLE) SHALL BE INSTALLED AS REQUIRED BY THE CITY ENGINEER.
11. INSERT POST INTO ANCHOR AND SECURE WITH TELESPAR CORNER BOLT AND HEX JAM NUT.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

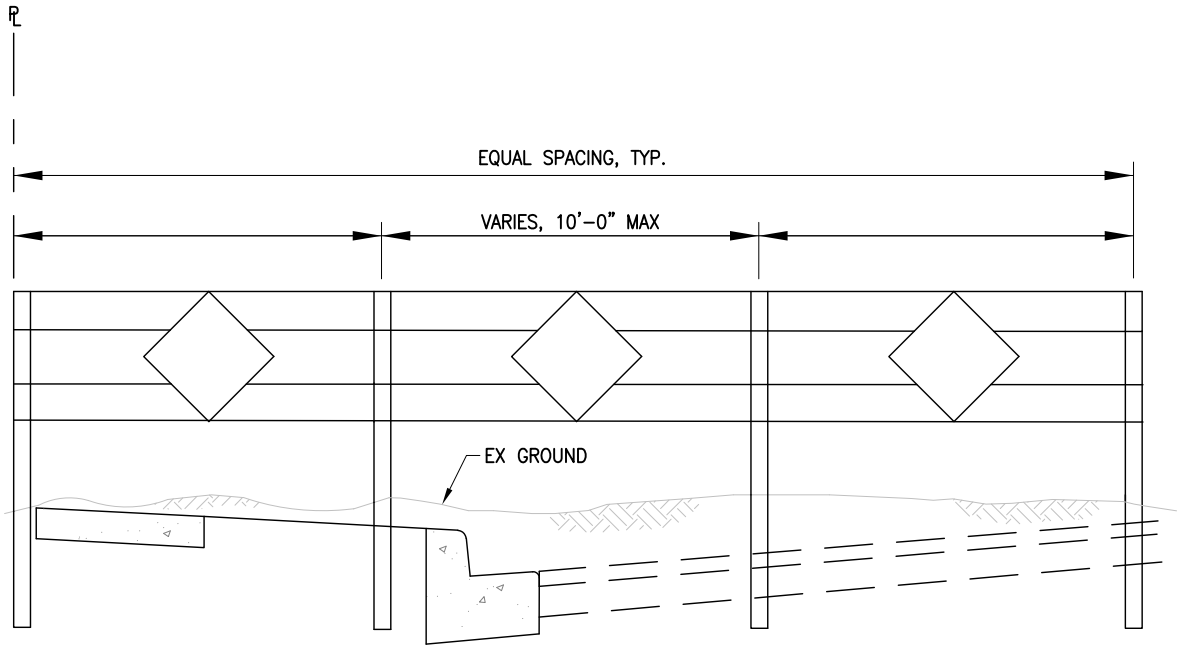
AMY OLAY
PUBLIC WORKS DIRECTOR

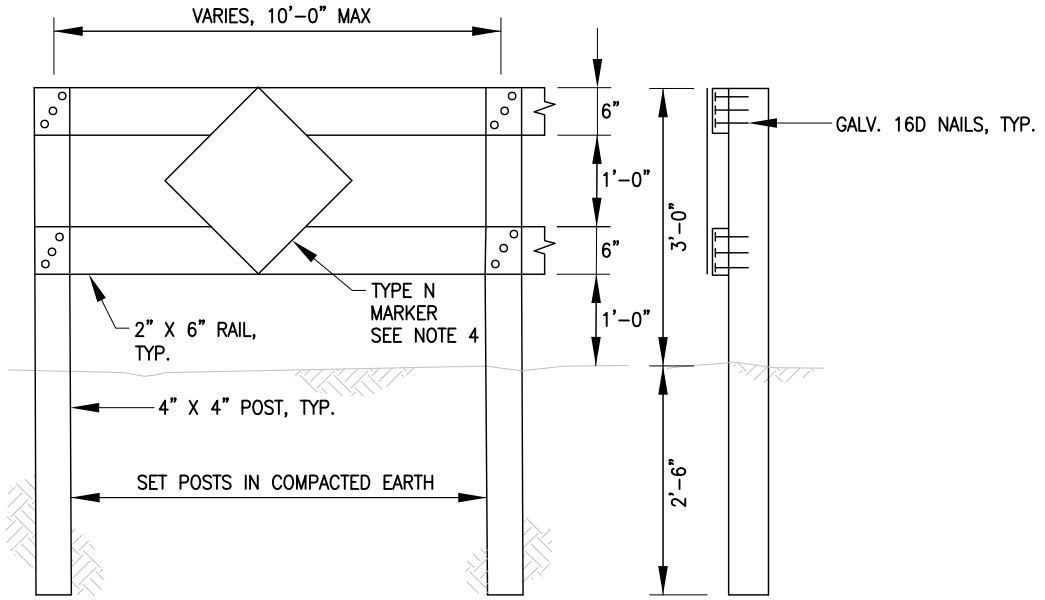
POST & SIGN INSTALLATION NOTES

NTS

DETAIL NO.

SS-1.2





NOTES:

1. WOOD SURFACES SHALL BE FINISHED & DEVOID OF SPLINTERS.
2. PAINT ALL EXPOSED WOOD SURFACES WITH ONE APPLICATION EXTERIOR WOOD PRIMER AND TWO COATS EXTERIOR WHITE ENAMEL.
3. SECURE EACH JOINT WITH THREE GALVANIZED 16D NAILS.
4. PLACE TYPE N MARKER EACH 10' SECTION AS SHOWN.
5. RAILS SHALL BE CONSTRUCTION GRADE DOUGLAS FIR S4S 2" X 6". POST SHALL BE CONSTRUCTION GRADE REDWOOD S4S 4" X 4".

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

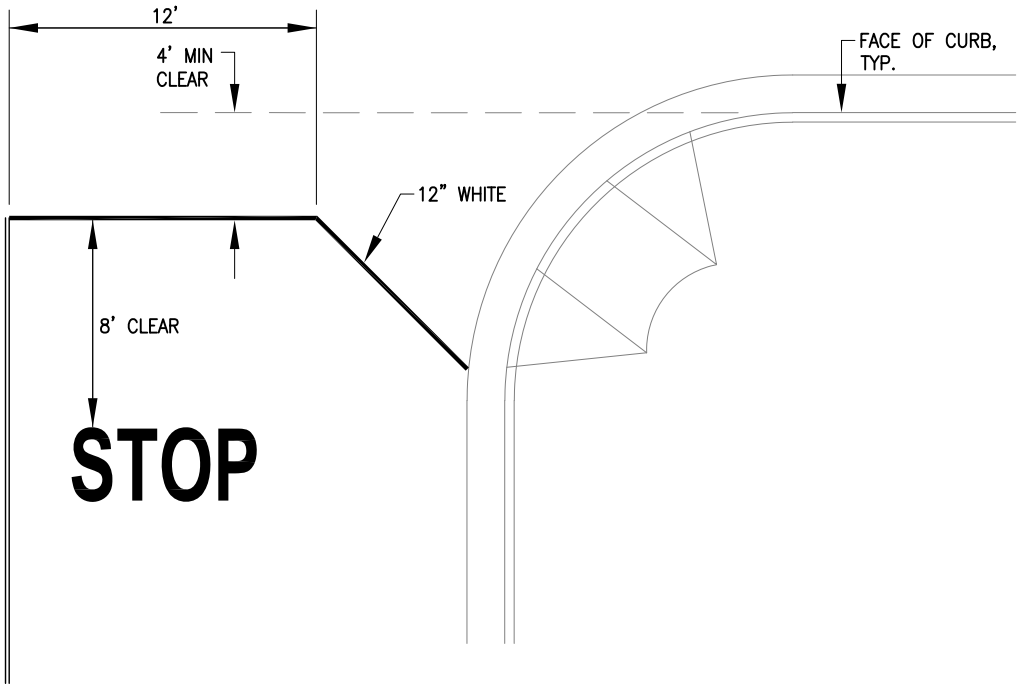
AMY OLAY
PUBLIC WORKS DIRECTOR

TYPE IV BARRICADE

NTS

DETAIL NO.

SS–2



NOTE:

TRAFFIC STRIPING AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

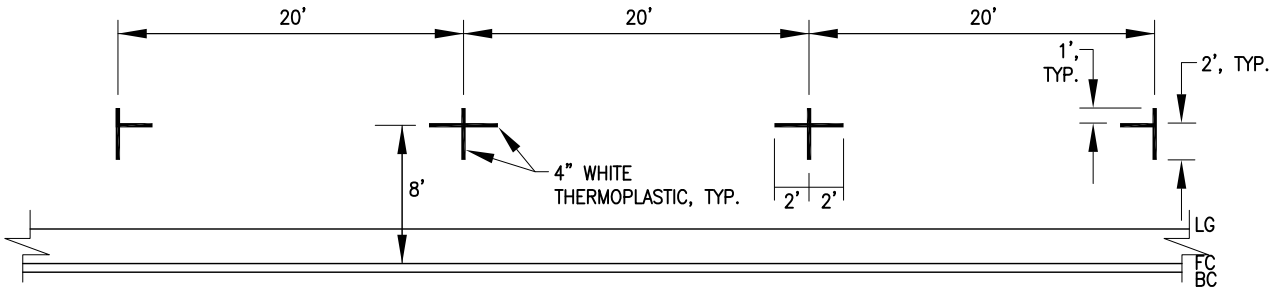
AMY OLAY
PUBLIC WORKS DIRECTOR

PAVEMENT MARKING –
"STOP" LEGEND

NTS

DETAIL NO.

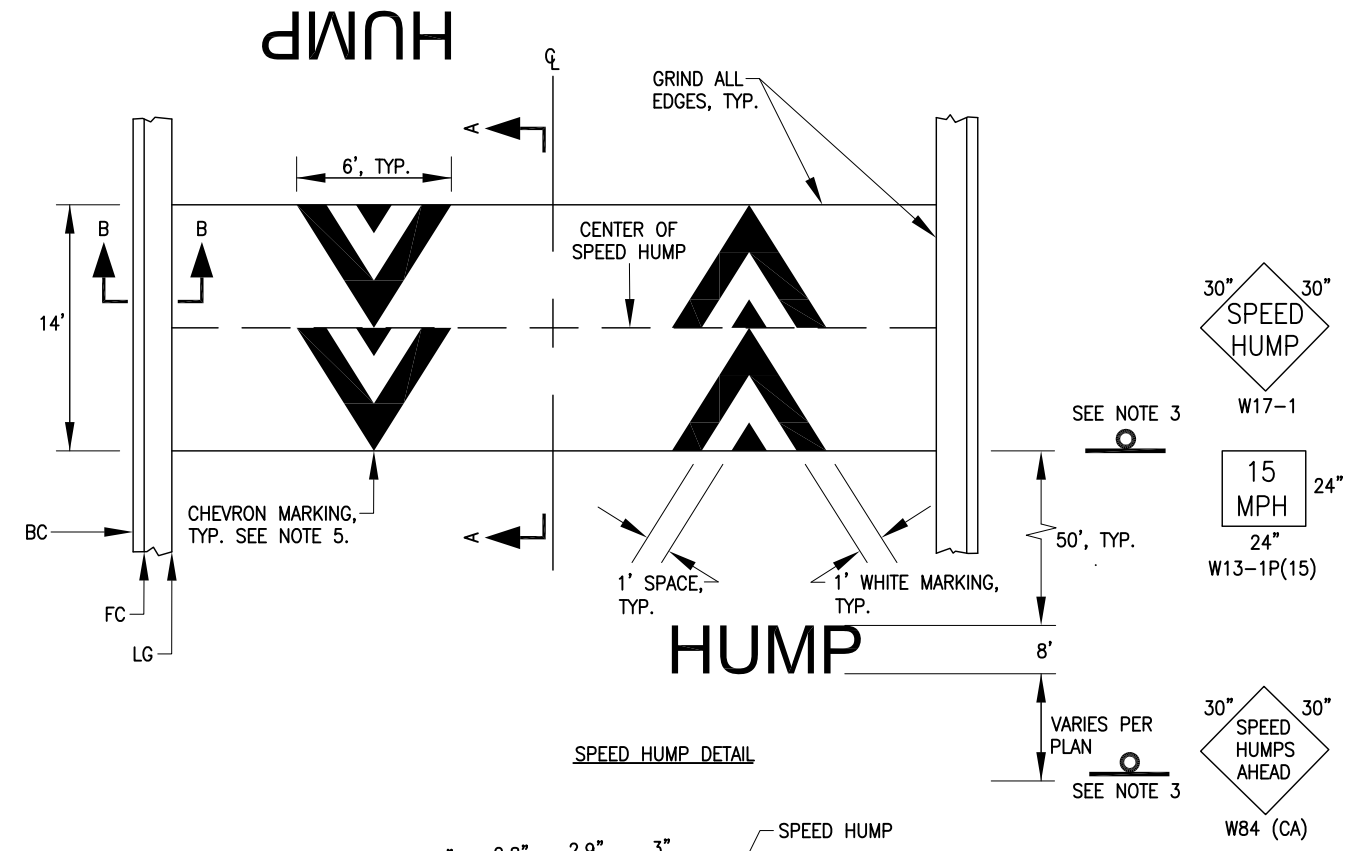
SS–3



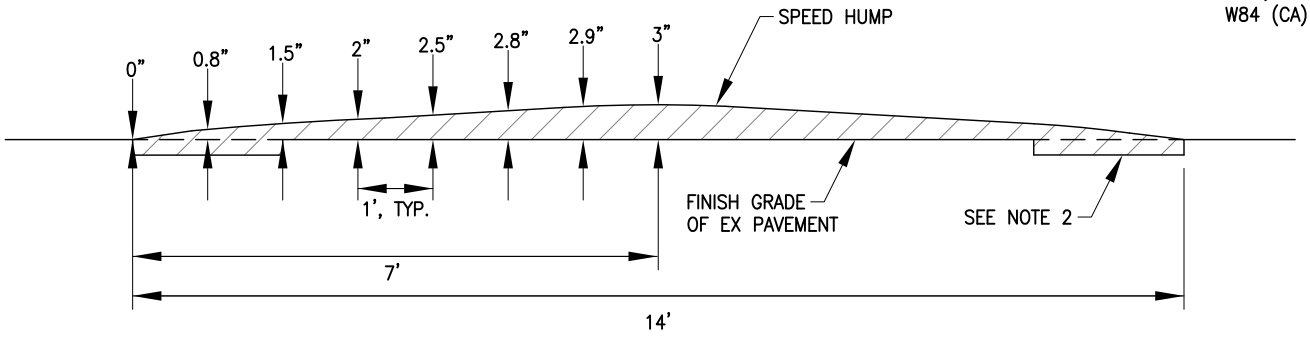
NOTE:

TRAFFIC STRIPING AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.

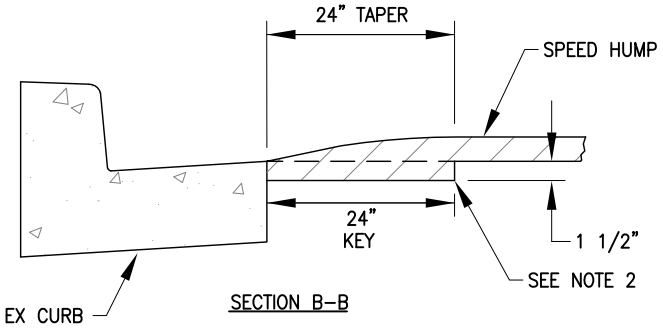
CITY OF CAMPBELL · THE ORCHARD CITY	CITY OF CAMPBELL PUBLIC WORKS DEPARTMENT APPROVED FOR USE JANUARY 2026 AO AMY OLAY PUBLIC WORKS DIRECTOR	PARKING "T" STRIPING NTS	DETAIL NO. SS-4



SPEED HUMP DETAIL



SECTION A–A



SECTION B–B

NOTES:

1. PLACE SPEED HUMP IN TWO LIFTS.
2. GRIND 24" KEY ALONG ALL EDGES.
3. SIGNS SHALL BE INSTALLED IN BOTH TRAFFIC DIRECTIONS. SIGNS SHALL BE 3M DIAMOND GRADE. SIGN LOCATIONS ARE TO BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
4. SPEED HUMP AND CHEVRON ARE TO BE INSTALLED ONLY AFTER LOCATIONS ARE APPROVED BY THE ENGINEER.
5. CHEVRON MARKING SHALL BE CENTERED 14' FROM FACE OF VERTICAL CURB OR FLOW LINE OF ROLLED CURB, OR AS DIRECTED BY THE ENGINEER.
6. ALL CHEVRONS AND HUMP LEGENDS SHALL BE THERMOPLASTIC.

CITY OF CAMPBELL
PUBLIC WORKS DEPARTMENT

APPROVED FOR USE JANUARY 2026

AO

AMY OLAY
PUBLIC WORKS DIRECTOR

SPEED HUMP

NTS

DETAIL NO.

SS-5