CITY OF SANTA ROSA

IMPROVEMENT PLANS FOR

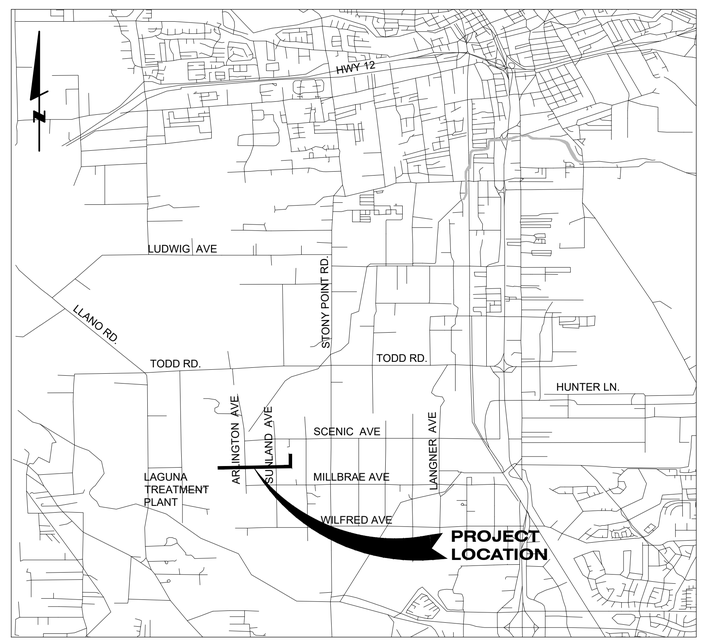
ROBLES TRUNK LINING

PHASE 1

GENERAL NOTES:

1. ALL WORKMANSHIP, MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CITY OF SANTA ROSA STANDARD PLANS, THE CONSTRUCTION SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, THE SPECIAL PROVISIONS FOR THIS PROJECT AND THE STATE STANDARD SPECIFICATIONS AND STANDARD PLANS. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING ALL STANDARDS PERTAINING TO THIS PROJECT.
2. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AT 1-800-642-2444 NO LESS THAN 2 WORKING DAYS PRIOR TO ANY EXCAVATION FOR MARK OUTS OF EXISTING UNDERGROUND FACILITIES IN ACCORDANCE WITH SECTION 5-1.36E OF THE SPECIAL PROVISIONS.
3. THE LOCATIONS OF UNDERGROUND UTILITIES AND OTHER OBSTACLES SHOWN ON THE PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL POTHOLE AND DETERMINE THE EXACT LOCATION OF ALL POTENTIAL CONFLICTS PRIOR TO ANY EXCAVATION AND IN ACCORDANCE WITH UNDERGROUND SERVICE ALERT LAWS AND THESE SPECIAL PROVISIONS AND THE STANDARD SPECIFICATIONS. IF ANY UNMARKED UTILITIES ARE ENCOUNTERED, OR IF UNABLE TO LOCATE A MARKED UTILITY AFTER POTHOLING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF THAT UTILITY AND THE ENGINEER.
4. ALL SEWER MANHOLES, MAINLINE CLEANOUTS AND WATER VALVES THAT ARE ON ACTIVE SYSTEMS SHALL BE ACCESSIBLE TO CITY PERSONNEL AT ALL TIMES AND SHALL BE BROUGHT TO GRADE WITHIN 48 HOURS OF PAVING.
5. THE CONTRACTOR SHALL PROTECT AND PRESERVE CITY MONUMENTS. THE CONTRACTOR SHALL COORDINATE WITH THE CITY ENGINEER 10 WORKING DAYS IN ADVANCE FOR REFERENCING OF EXISTING MONUMENTS TO BE DISTURBED. THE CONTRACTOR SHALL RECONSTRUCT DISTURBED MONUMENTS IN ACCORDANCE WITH CITY STANDARD DETAIL 280.
6. OVERHEAD UTILITY SERVICE DROPS ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL INVESTIGATE THE SITE AND BE AWARE OF LIMITED CLEARANCES UNDER OVERHEAD UTILITY LINES AND LOW HANGING TREE BRANCHES. THE CONTRACTOR'S TRUCKS AND EXCAVATION EQUIPMENT SHALL BE SIZED SO THAT OVERHEAD WIRES AND TREE BRANCHES ARE NOT DAMAGED.
7. ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF AS GENERATED AND AT NO TIME SHALL THE CONTRACTOR PLACE EXCAVATED MATERIAL AT THE WORK SITE.
8. THE CONTRACTOR SHALL ONLY REMOVE EXISTING TREES OR SHRUBS AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
9. FOR CLARITY OF EXISTING SUBSURFACE CONDITIONS, NOT ALL CROSSWALKS, STOP BARS, OR EXISTING PAVEMENT MARKINGS ARE SHOWN ON THE PLANS. TRAFFIC STRIPES, RAISED PAVEMENT MARKERS AND PAVEMENT MARKINGS DAMAGED DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED PER CITY OF SANTA ROSA TRAFFIC STANDARDS PART III, TRAFFIC MARKINGS. PATCHING OF DAMAGED MARKINGS WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE ENGINEER. ALL DAMAGED RAISED PAVEMENT (NON-REFLECTIVE) MARKERS MUST BE CERAMIC.
10. CIPP LINING DISTANCES AS SHOWN ON THESE PLANS ARE BASED ON CCTV INSPECTION DATA PROVIDED BY THE CITY. ACTUAL LINING DISTANCES MAY VARY SLIGHTLY AND SHALL BE AS MEASURED FROM THE INSIDE FACE OF MANHOLE/PIPE INTERFACE.
11. FLATBED SEMI-TRAILER TRUCKS SHALL NOT BE ALLOWED IN THE HAZEL MITIGATION BANK AS PART OF THE BYPASS SETUP OPERATIONS.

CONTRACT No. C02114



LOCATION MAP
NOT TO SCALE

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

APPROVED: DEPUTY DIRECTOR - ENGINEERING
BY _____ DATE 01/20/2026
CHRISTA SIEGENTHALER

DESIGN/CONST		01/13/2026
TRAFFIC		01/13/2026
WATER - ENG		01/20/2026
WATER - OPS		01/13/2026
DEPT.	SIGNATURE	DATE

CHK BY:	MCV
DATE:	AUG 2025
DWN BY:	SJ
SCALE:	AS SHOWN
CONTRACT NO.	C02114
SHEET	1 OF 10
FILE NO.	2021-0017
	G-1

REGISTERED PROFESSIONAL ENGINEER
MADISON CASSERLY VEGMAN
No. 83346
STATE OF CALIFORNIA
Madison Vegman (Jan 13, 2026 11:56 PST)
Madison Vegman (Jan 13, 2026 11:56 PST)
Date: 2026.01.05 13:56:13 -08'00'

City of Santa Rosa

NO.	DATE	REVISION	BY

ROBLES TRUNK LINING
PHASE 1 (CIP 2114)
COVER SHEET

ABBREVIATIONS

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
APN	ASSESSORS PARCEL NUMBER
AVE	AVENUE
CIP	CAPITAL IMPROVEMENT PROJECT
CIPP	CURED IN PLACE PIPE
℄	CENTERLINE
CTS	CALIFORNIA TIGER SALAMANDER
DWG	DRAWING
(E)	EXISTING
FT	FOOT OR FEET
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
NO	NUMBER
NTS	NOT TO SCALE
RC	RELATIVE COMPACTION
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
SS	SANITARY SEWER
TCE	TEMPORARY CONSTRUCTION EASEMENT
TYP	TYPICAL

LEGEND

- EXISTING SANITARY SEWER
- EXISTING SANITARY SEWER TO BE REHABILITATED
- EXISTING SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER MANHOLE TO BE REHABILITATED
- EXISTING SANITARY SEWER EASEMENT
- EXISTING FENCE
- EXISTING SWALE
- PROPERTY LINE
- TCE
- TEMPORARY WILDLIFE PERMEABLE BARRIER
- TEMPORARY CTS EXCLUSIONARY FENCING
- TEMPORARY NO-CLIMB LIVESTOCK FENCING
- EXISTING CONCRETE PAD
- NEW GATE
- BYPASS WORK AREA
- HIGH TRAFFIC AREA
- LOW TRAFFIC AREA
- CONSTRUCTION MAT AREA
- WETLANDS AREA
- EXISTING SANITARY SEWER EASEMENT – NO CONTRACTOR ACCESS
- TEMPORARY CONSTRUCTION EASEMENT
- BYPASS LINE

Existing Manhole Schedule

Manhole Number and Sheet	Record Drawing Reference Sheet(s)	Epoxy Rehabilitation (Y/N)	Rim Elevation (ft)	Invert Elevation (ft)	Manhole Configuration	Height of Grade Ring	Frame and Cover	Stub Information
KK2702MH003 SHEET C-1	SHEET 43	N	87.62	66.81	48"ø x 24"ø x 30" TALL CONCENTRIC CONE 48"ø x 48" TALL BARREL SECTION 60"ø x 48"ø x 36" TALL CONCENTRIC REDUCER 60"ø x 72" TALL BARREL SECTION	No grade ring	24" ø x 4 1/2" TALL	N/A
KK2702MH002 SHEET C-1	SHEET 43	Y	85.60	66.95	48"ø x 24"ø x 36" TALL ECCENTRIC CONE 60"ø x 48"ø x 30" TALL CONCENTRIC REDUCER 60"ø x 84" TALL BARREL SECTION	16"	24" ø x 4 1/2" TALL	12" (N) - invert at 70.78ft 12" (S) - invert at 70.73ft
KK2702MH001 SHEET C-2	SHEET 5 AND SHEET 43	Y	87.55	67.54	60"ø x 24"ø x 48" TALL ECCENTRIC CONE 60"ø x 96" TALL BARREL SECTION	8"	24" ø X 13" TALL	10" or 12" (N) - invert approx. 1" above crown of trunk line 10" or 12" (S) - invert approx. 1" above crown of trunk line
KK2703MH001 SHEET C-2	SHEET 6 AND SHEET 43	Y	86.92	67.92	60"ø x 24"ø x 48" TALL ECCENTRIC CONE 60"ø x 60" TALL BARREL SECTION	19"	24" ø X 13" TALL	10" (N) - invert approx. equal to trunk crown elevation 10" (S) - invert approx. equal to trunk crown elevation
KK2703MH002 SHEET C-3	SHEET 6 AND SHEET 46	Y	87.90	69.30	48"ø x 24"ø x 36" TALL ECCENTRIC CONE 60"ø x 48"ø x 36" TALL CONCENTRIC REDUCER 60"ø x 96" TALL BARREL SECTION	6"	24" ø X 13" TALL	24" (E) - invert approx. at spring line of trunk 10" (S) - invert approx. equal to trunk crown elevation
KK2703MH003 SHEET C-3	SHEET 7 AND SHEET 43	Y	88.00	68.8	48"ø x 24"ø x 36" TALL ECCENTRIC CONE 60"ø x 48"ø x 24" TALL CONCENTRIC REDUCER 60"ø x 72" TALL BARREL SECTION	4"	24" ø x 13" TALL	10" (S) - invert approx. equal to trunk crown elevation

REGISTERED PROFESSIONAL ENGINEER
MADISON CASSERLY VEGGIAN
No. 83346
CIVIL
STATE OF CALIFORNIA

City of Santa Rosa

Woodard & Curran

NO.	DATE	REVISION	BY

DWN BY: S. JUNG
CHK BY: M. VEGGIAN
DATE: AUGUST 2025
SCALE: AS SHOWN

ROBLES TRUNK LINING
PHASE 1 (CIP 2114)

LEGEND, ABBREVIATIONS, AND DETAILS

DWG NO. G-2
CONTRACT NO. C02114
SHEET 2 OF 10
FILE NO. 2021-0017

NOTES:

S01 EXISTING 25' WIDE SANITARY SEWER EASEMENTS. NO CONSTRUCTION ACTIVITIES WILL BE ALLOWED OUTSIDE EXISTING EASEMENTS.

S04 ACCESS VIA EASEMENT. GATE LOCATED ACROSS FROM 4530 ARLINGTON AVENUE.

S05 ACCESS VIA SUNLAND AVENUE (FROM NORTH SCENIC AVENUE). CONTRACTOR SHALL REMOVE AND REPLACE EXISTING 6FT x 8FT WELDED WIRE FENCING ON T-POSTS AND PROVIDE TEMPORARY FENCING AS NEEDED FOR CONSTRUCTION.

S06 DO NOT BLOCK ROAD FROM THROUGH TRAFFIC.

S09 TO ACCESS MANHOLE, CONTRACTOR SHALL ENTER PROPERTY AT 880 SCENIC AVENUE FROM LONG PRIVATE DRIVEWAY OFF SCENIC AVENUE. THERE IS NO GATE BLOCKING ACCESS, HOWEVER, VEHICLES MAY NEED TO BE MOVED. CONTRACTOR SHALL COORDINATE WITH CITY INSPECTOR TO OBTAIN PROPERTY CONTACT INFORMATION AND TO COORDINATE ACCESS A MINIMUM OF TWENTY-FOUR HOURS PRIOR TO ACCESSING THE PROPERTY.

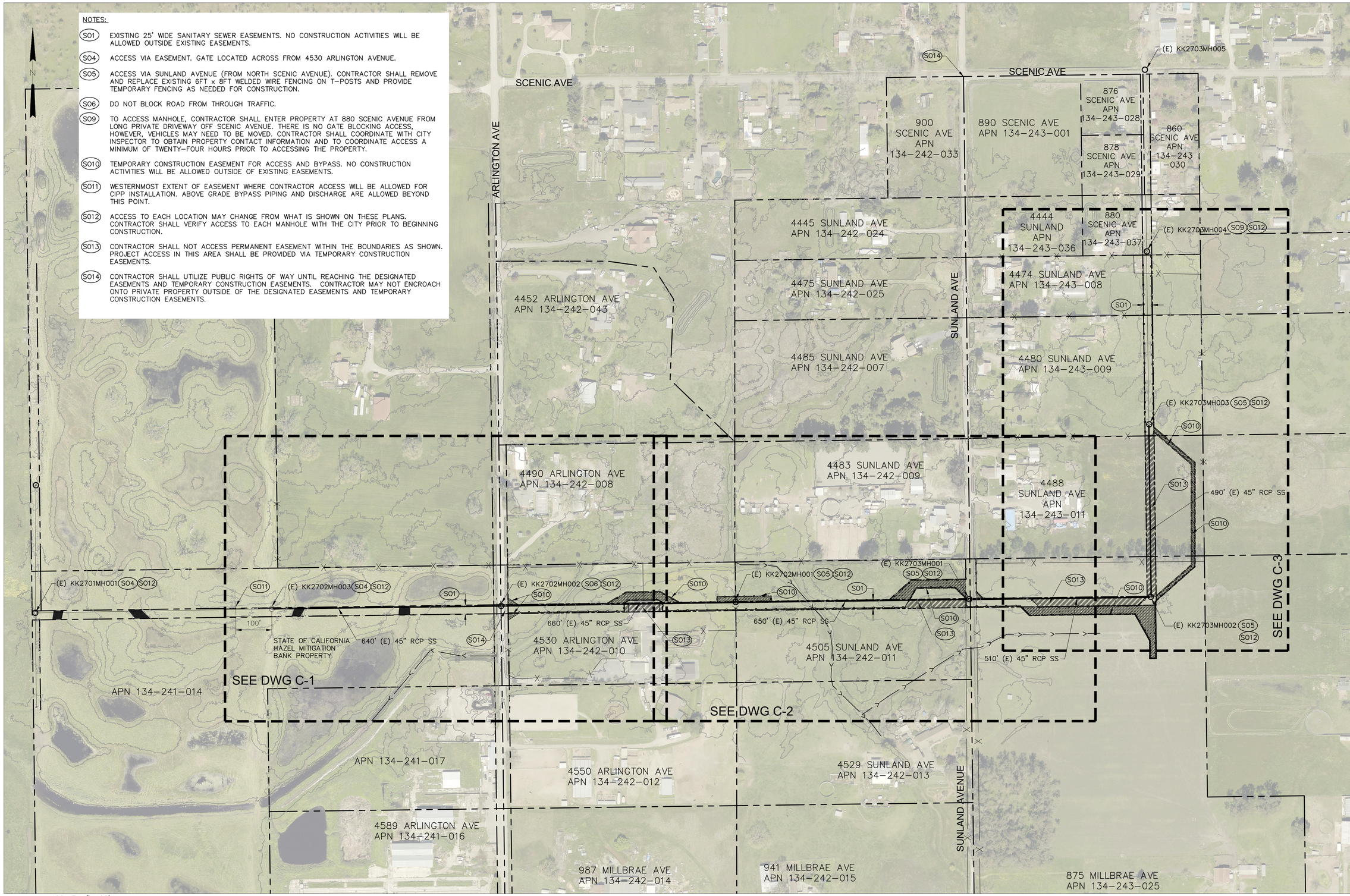
S010 TEMPORARY CONSTRUCTION EASEMENT FOR ACCESS AND BYPASS. NO CONSTRUCTION ACTIVITIES WILL BE ALLOWED OUTSIDE OF EXISTING EASEMENTS.

S011 WESTERNMOST EXTENT OF EASEMENT WHERE CONTRACTOR ACCESS WILL BE ALLOWED FOR CIPP INSTALLATION. ABOVE GRADE BYPASS PIPING AND DISCHARGE ARE ALLOWED BEYOND THIS POINT.

S012 ACCESS TO EACH LOCATION MAY CHANGE FROM WHAT IS SHOWN ON THESE PLANS. CONTRACTOR SHALL VERIFY ACCESS TO EACH MANHOLE WITH THE CITY PRIOR TO BEGINNING CONSTRUCTION.

S013 CONTRACTOR SHALL NOT ACCESS PERMANENT EASEMENT WITHIN THE BOUNDARIES AS SHOWN. PROJECT ACCESS IN THIS AREA SHALL BE PROVIDED VIA TEMPORARY CONSTRUCTION EASEMENTS.

S014 CONTRACTOR SHALL UTILIZE PUBLIC RIGHTS OF WAY UNTIL REACHING THE DESIGNATED EASEMENTS AND TEMPORARY CONSTRUCTION EASEMENTS. CONTRACTOR MAY NOT ENCROACH ONTO PRIVATE PROPERTY OUTSIDE OF THE DESIGNATED EASEMENTS AND TEMPORARY CONSTRUCTION EASEMENTS.



SCALE: 1"=125'

0 125 250 375

SCALE IN FEET

PLAN
1" = 125'

REGISTERED PROFESSIONAL ENGINEER MADISON CASSERLY VEGGIAN No. 83346 CIVIL STATE OF CALIFORNIA

City of Santa Rosa

Woodard & Curran

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CHK BY: M. VEGGIAN
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ROBLES TRUNK LINING
PHASE 1 (CIP 2114)

OVERALL SITE AND ACCESS PLAN

DWG NO. G-3
CONTRACT NO. C02114
SHEET 3 OF 10
FILE NO. 2021-0017

LEGEND

- HIGH TRAFFIC AREA
- LOW TRAFFIC AREA
- CONSTRUCTION MAT AREA
- WETLANDS AREA
- EXISTING SANITARY SEWER EASEMENT
- EXISTING FENCE
- EXISTING SWALE
- PROPERTY LINE
- TCE
- TEMPORARY WILDLIFE PERMEABLE BARRIER
- TEMPORARY CTS EXCLUSIONARY FENCING
- TEMPORARY NO-CLIMB LIVESTOCK FENCING
- EXISTING CONCRETE PAD

N

SCALE: 1"=125'

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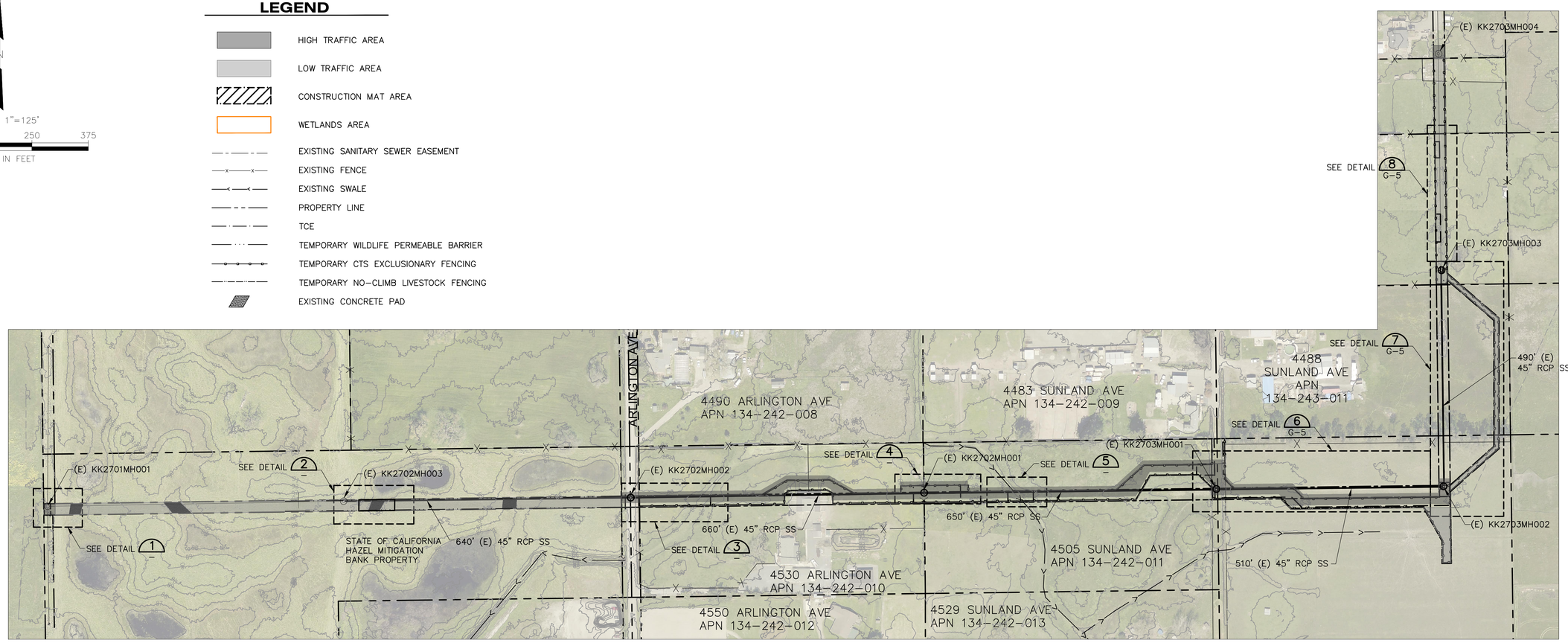
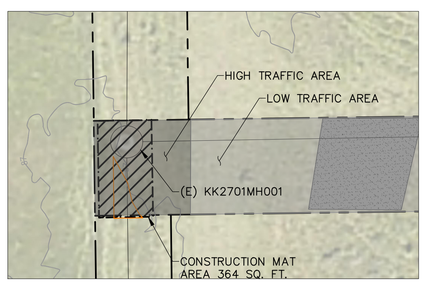
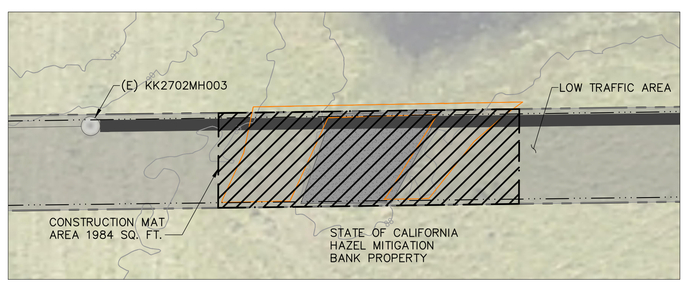
SCALE IN FEET



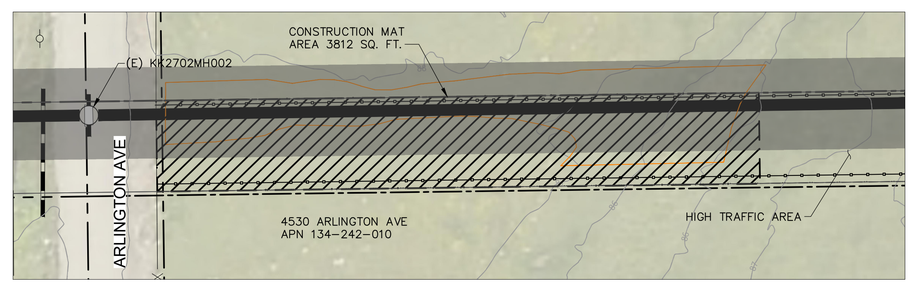
PLAN
1" = 125'



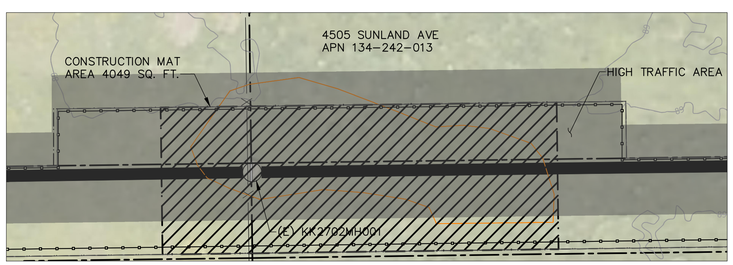
DETAIL 1
1" = 20'



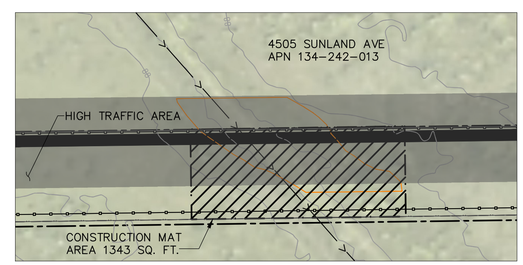
DETAIL 2
1" = 20'



DETAIL 3
1" = 20'



DETAIL 4
1" = 20'



DETAIL 5
1" = 20'

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ROBLES TRUNK LINING
PHASE 1 (CIP 2114)

CONSTRUCTION MAT PLACEMENT - 1

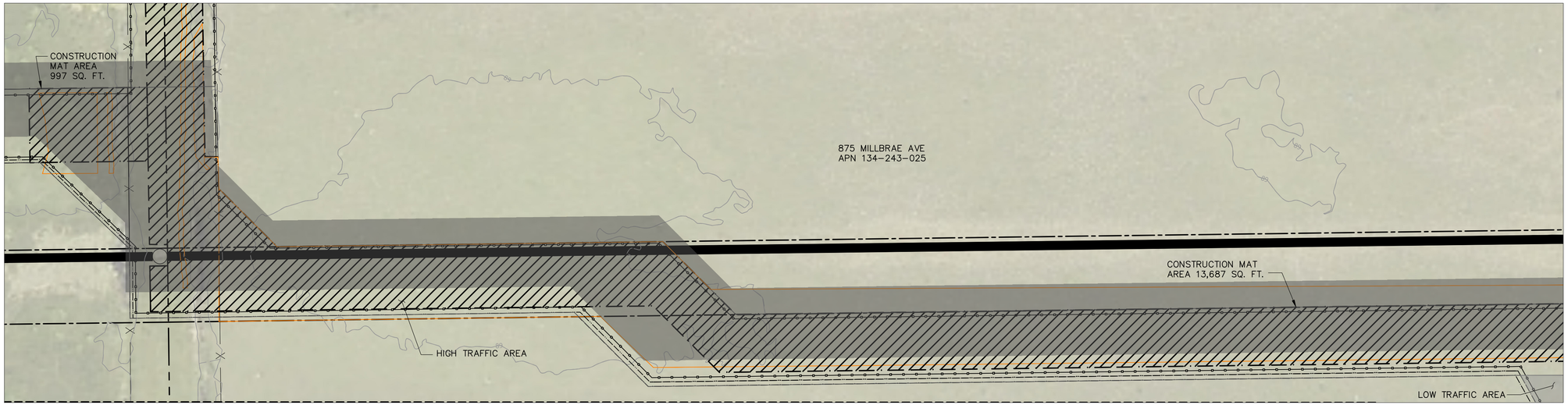
DWG NO. G-4
CONTRACT NO. C02114
SHEET 4 OF 10
FILE NO. 2021-0017

N

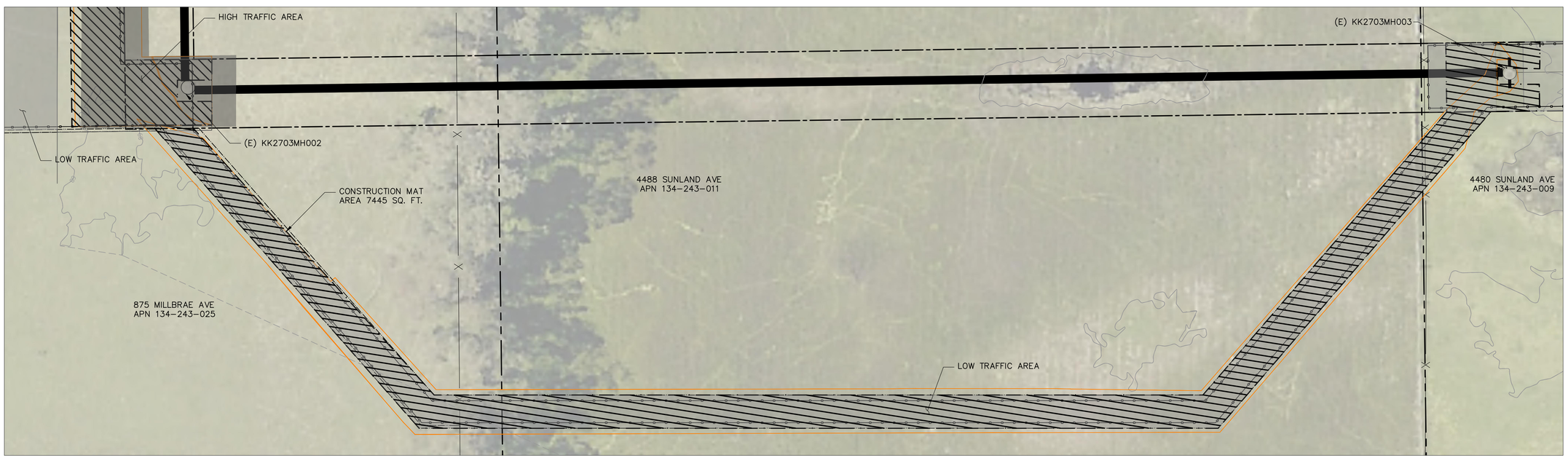
SCALE: 1"=20'

0 20 40 60

SCALE IN FEET



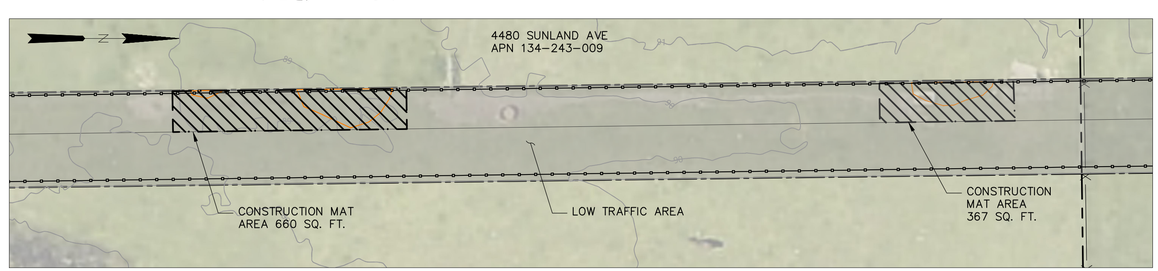
DETAIL 6 (G–4)
1" = 20'



DETAIL 7 (G–4)
1" = 20'

LEGEND

- HIGH TRAFFIC AREA
- LOW TRAFFIC AREA
- CONSTRUCTION MAT AREA
- WETLANDS AREA
- EXISTING SANITARY SEWER EASEMENT
- EXISTING FENCE
- EXISTING SWALE
- PROPERTY LINE
- TCE
- TEMPORARY WILDLIFE PERMEABLE BARRIER
- TEMPORARY CTS EXCLUSIONARY FENCING
- TEMPORARY NO–CLIMB LIVESTOCK FENCING
- EXISTING CONCRETE PAD



DETAIL 8 (G–4)
1" = 20'

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ROBLES TRUNK LINING
PHASE 1 (CIP 2114)

CONSTRUCTION MAT PLACEMENT - 2

DWG NO. G–5
CONTRACT NO. C02114
SHEET 5 OF 10
FILE NO. 2021–0017

NOTES:

(S01) EXISTING 25' SANITARY SEWER EASEMENTS. NO CONSTRUCTION ACTIVITIES WILL BE ALLOWED OUTSIDE EXISTING EASEMENTS. INSTALL ORANGE REFLECTIVE POSTS TO DELINEATE EASEMENT BOUNDARIES.

(S02) CONTRACTOR SHALL INSTALL TEMPORARY WILDLIFE PERMEABLE CONSTRUCTION BARRIERS ALONG THE DEFINED WORK AREA BOUNDARY.

(S04) ACCESS VIA EASEMENT. GATE LOCATED ACROSS FROM 4530 ARLINGTON AVENUE.

(S06) DO NOT BLOCK ROAD FROM THROUGH TRAFFIC.

(S010) TEMPORARY CONSTRUCTION EASEMENT FOR ACCESS AND BYPASS. NO CONSTRUCTION ACTIVITIES WILL BE ALLOWED OUTSIDE OF EXISTING EASEMENTS. INSTALL ORANGE REFLECTIVE POSTS TO DELINEATE EASEMENT BOUNDARIES.

(S011) WESTERNMOST EXTENT OF EASEMENT WHERE CONTRACTOR ACCESS WILL BE ALLOWED FOR CIPP INSTALLATION. ABOVE GRADE BYPASS PIPING AND DISCHARGE ARE ALLOWED BEYOND THIS POINT.

(S012) ACCESS TO EACH LOCATION MAY CHANGE FROM WHAT IS SHOWN ON THESE PLANS. CONTRACTOR SHALL VERIFY ACCESS TO EACH MANHOLE WITH THE CITY PRIOR TO BEGINNING CONSTRUCTION.

(S013) CONTRACTOR SHALL NOT ACCESS PERMANENT EASEMENT WITHIN THE BOUNDARIES AS SHOWN. PROJECT ACCESS AROUND THIS AREA SHALL BE PROVIDED VIA TEMPORARY CONSTRUCTION EASEMENTS.

(S1) INSTALL CIPP LINING.

(S2) REHABILITATE (E) MANHOLE WITH EPOXY LINING.

(S3) EXISTING MANHOLE WITH EPOXY LINING.

(S4) REPAIR EXISTING EPOXY LINING IF DAMAGED DUE TO CONSTRUCTION ACTIVITIES.

(S5) CONTRACTOR MAY NOT USE THIS MANHOLE FOR CIPP LAUNCH.

(S6) PROTECT EXISTING STORM DRAIN IN PLACE.

(S7) EXCAVATION LIMITS ASSOCIATED WITH ANY EXISTING MANHOLE WORK WITHIN THE MITIGATION PROPERTY SHALL BE LIMITED TO A TOTAL OF 400 SQ. FT. PERIMETER OF ANY INDIVIDUAL EXCAVATION. WORK AREA SHALL HAVE CTS EXCLUSION FENCING. SEE SPECIFICATIONS.

(S8) EXISTING SWALE(S) REQUIRING TRANSVERSAL ACCESS BY CONSTRUCTION RELATED ACTIVITIES SHALL BE PROTECTED WITH STEEL PLATES. SUPPORT BYPASS PIPE OVER SWALE. PROTECT SWALE FROM VEHICLES.

(S9) PROTECT EXISTING FENCE IN PLACE UNLESS OTHERWISE NOTED FOR REMOVAL AND REPLACEMENT (TYP).

(S12) CONTRACTOR CANNOT ACCESS EASEMENT BETWEEN THESE POINTS.

(S13) RESTORE SURFACE IN KIND TO EXISTING OR BETTER CONDITION. SOIL LAYERS REMOVED DURING CONSTRUCTION SHALL BE REPLACED IN THE SAME ORDER. LAYERS SHALL BE COMPACTED IN 6-INCH LIFTS UNTIL EXISTING GRADE IS RESTORED.

(S14) PRIOR TO EPOXY LINING, PLUG TWO 12" DIAMETER STUBS WITH CONCRETE AND CONCRETE CHANNELS TO SHELF LEVEL. REMOVE CLAY PIPE FROM CHANNEL BEFORE APPLYING CONCRETE.

(S18) EXISTING CONCRETE PAD.

(S19) UNLESS OTHERWISE NOTED ON THESE PLANS, IT IS UP TO THE DISCRETION OF THE CONTRACTOR TO SELECT THE MANHOLES TO BE USED FOR CIPP LAUNCH AND RECEPTION.

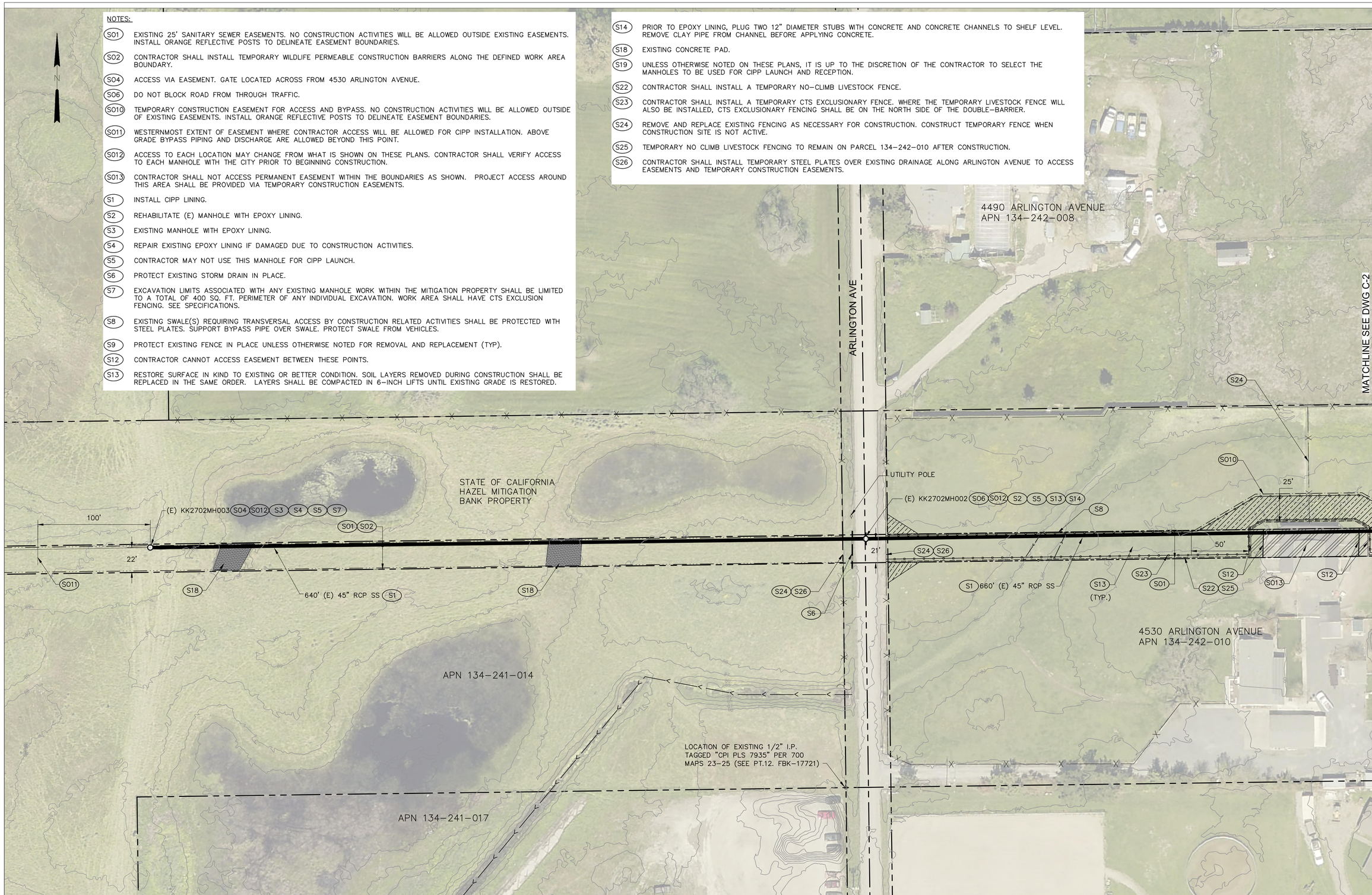
(S22) CONTRACTOR SHALL INSTALL A TEMPORARY NO-CLIMB LIVESTOCK FENCE.

(S23) CONTRACTOR SHALL INSTALL A TEMPORARY CTS EXCLUSIONARY FENCE. WHERE THE TEMPORARY LIVESTOCK FENCE WILL ALSO BE INSTALLED, CTS EXCLUSIONARY FENCING SHALL BE ON THE NORTH SIDE OF THE DOUBLE-BARRIER.

(S24) REMOVE AND REPLACE EXISTING FENCING AS NECESSARY FOR CONSTRUCTION. CONSTRUCT TEMPORARY FENCE WHEN CONSTRUCTION SITE IS NOT ACTIVE.

(S25) TEMPORARY NO CLIMB LIVESTOCK FENCING TO REMAIN ON PARCEL 134-242-010 AFTER CONSTRUCTION.

(S26) CONTRACTOR SHALL INSTALL TEMPORARY STEEL PLATES OVER EXISTING DRAINAGE ALONG ARLINGTON AVENUE TO ACCESS EASEMENTS AND TEMPORARY CONSTRUCTION EASEMENTS.



SCALE: 1"=40'

0 40 80 120

SCALE IN FEET

PLAN
1" = 40'

REGISTERED PROFESSIONAL ENGINEER
MADISON CASSERLY VEGGIAN
No. 83346
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City of Santa Rosa

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CHK BY: M. VEGGIAN
DATE: AUGUST 2025
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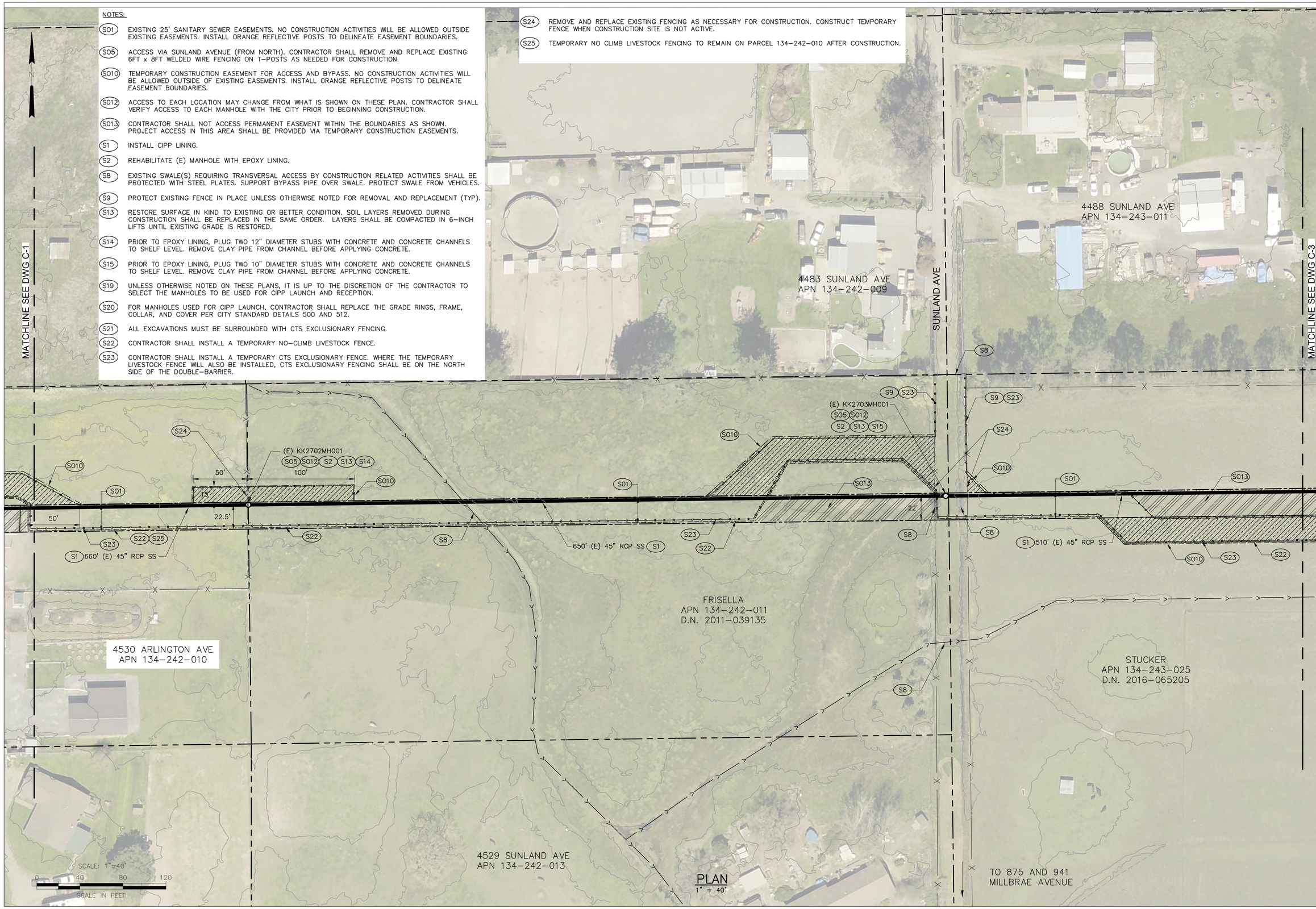
ROBLES TRUNK LINING
PHASE 1 (CIP 2114)

PLAN - 1

DWG NO. C-1
CONTRACT NO. C02114
SHEET 6 OF 10
FILE NO. 2021-0017

NOTES:

- S01 EXISTING 25' SANITARY SEWER EASEMENTS. NO CONSTRUCTION ACTIVITIES WILL BE ALLOWED OUTSIDE EXISTING EASEMENTS. INSTALL ORANGE REFLECTIVE POSTS TO DELINEATE EASEMENT BOUNDARIES.
- S05 ACCESS VIA SUNLAND AVENUE (FROM NORTH). CONTRACTOR SHALL REMOVE AND REPLACE EXISTING 6FT x 8FT WELDED WIRE FENCING ON T-POSTS AS NEEDED FOR CONSTRUCTION.
- S010 TEMPORARY CONSTRUCTION EASEMENT FOR ACCESS AND BYPASS. NO CONSTRUCTION ACTIVITIES WILL BE ALLOWED OUTSIDE OF EXISTING EASEMENTS. INSTALL ORANGE REFLECTIVE POSTS TO DELINEATE EASEMENT BOUNDARIES.
- S012 ACCESS TO EACH LOCATION MAY CHANGE FROM WHAT IS SHOWN ON THESE PLAN. CONTRACTOR SHALL VERIFY ACCESS TO EACH MANHOLE WITH THE CITY PRIOR TO BEGINNING CONSTRUCTION.
- S013 CONTRACTOR SHALL NOT ACCESS PERMANENT EASEMENT WITHIN THE BOUNDARIES AS SHOWN. PROJECT ACCESS IN THIS AREA SHALL BE PROVIDED VIA TEMPORARY CONSTRUCTION EASEMENTS.
- S1 INSTALL CIPP LINING.
- S2 REHABILITATE (E) MANHOLE WITH EPOXY LINING.
- S8 EXISTING SWALE(S) REQUIRING TRANSVERSAL ACCESS BY CONSTRUCTION RELATED ACTIVITIES SHALL BE PROTECTED WITH STEEL PLATES. SUPPORT BYPASS PIPE OVER SWALE. PROTECT SWALE FROM VEHICLES.
- S9 PROTECT EXISTING FENCE IN PLACE UNLESS OTHERWISE NOTED FOR REMOVAL AND REPLACEMENT (TYP).
- S13 RESTORE SURFACE IN KIND TO EXISTING OR BETTER CONDITION. SOIL LAYERS REMOVED DURING CONSTRUCTION SHALL BE REPLACED IN THE SAME ORDER. LAYERS SHALL BE COMPACTED IN 6-INCH LIFTS UNTIL EXISTING GRADE IS RESTORED.
- S14 PRIOR TO EPOXY LINING, PLUG TWO 12" DIAMETER STUBS WITH CONCRETE AND CONCRETE CHANNELS TO SHELF LEVEL. REMOVE CLAY PIPE FROM CHANNEL BEFORE APPLYING CONCRETE.
- S15 PRIOR TO EPOXY LINING, PLUG TWO 10" DIAMETER STUBS WITH CONCRETE AND CONCRETE CHANNELS TO SHELF LEVEL. REMOVE CLAY PIPE FROM CHANNEL BEFORE APPLYING CONCRETE.
- S19 UNLESS OTHERWISE NOTED ON THESE PLANS, IT IS UP TO THE DISCRETION OF THE CONTRACTOR TO SELECT THE MANHOLES TO BE USED FOR CIPP LAUNCH AND RECEPTION.
- S20 FOR MANHOLES USED FOR CIPP LAUNCH, CONTRACTOR SHALL REPLACE THE GRADE RINGS, FRAME, COLLAR, AND COVER PER CITY STANDARD DETAILS 500 AND 512.
- S21 ALL EXCAVATIONS MUST BE SURROUNDED WITH CTS EXCLUSIONARY FENCING.
- S22 CONTRACTOR SHALL INSTALL A TEMPORARY NO-CLIMB LIVESTOCK FENCE.
- S23 CONTRACTOR SHALL INSTALL A TEMPORARY CTS EXCLUSIONARY FENCE. WHERE THE TEMPORARY LIVESTOCK FENCE WILL ALSO BE INSTALLED, CTS EXCLUSIONARY FENCING SHALL BE ON THE NORTH SIDE OF THE DOUBLE-BARRIER.
- S24 REMOVE AND REPLACE EXISTING FENCING AS NECESSARY FOR CONSTRUCTION. CONSTRUCT TEMPORARY FENCE WHEN CONSTRUCTION SITE IS NOT ACTIVE.
- S25 TEMPORARY NO CLIMB LIVESTOCK FENCING TO REMAIN ON PARCEL 134-242-010 AFTER CONSTRUCTION.



PLAN
1" = 40'

REGISTERED PROFESSIONAL ENGINEER
MADISON CASSERLY VEGGIAN
No. 83346
CIVIL
STATE OF CALIFORNIA

City of Santa Rosa

Woodard & Curran

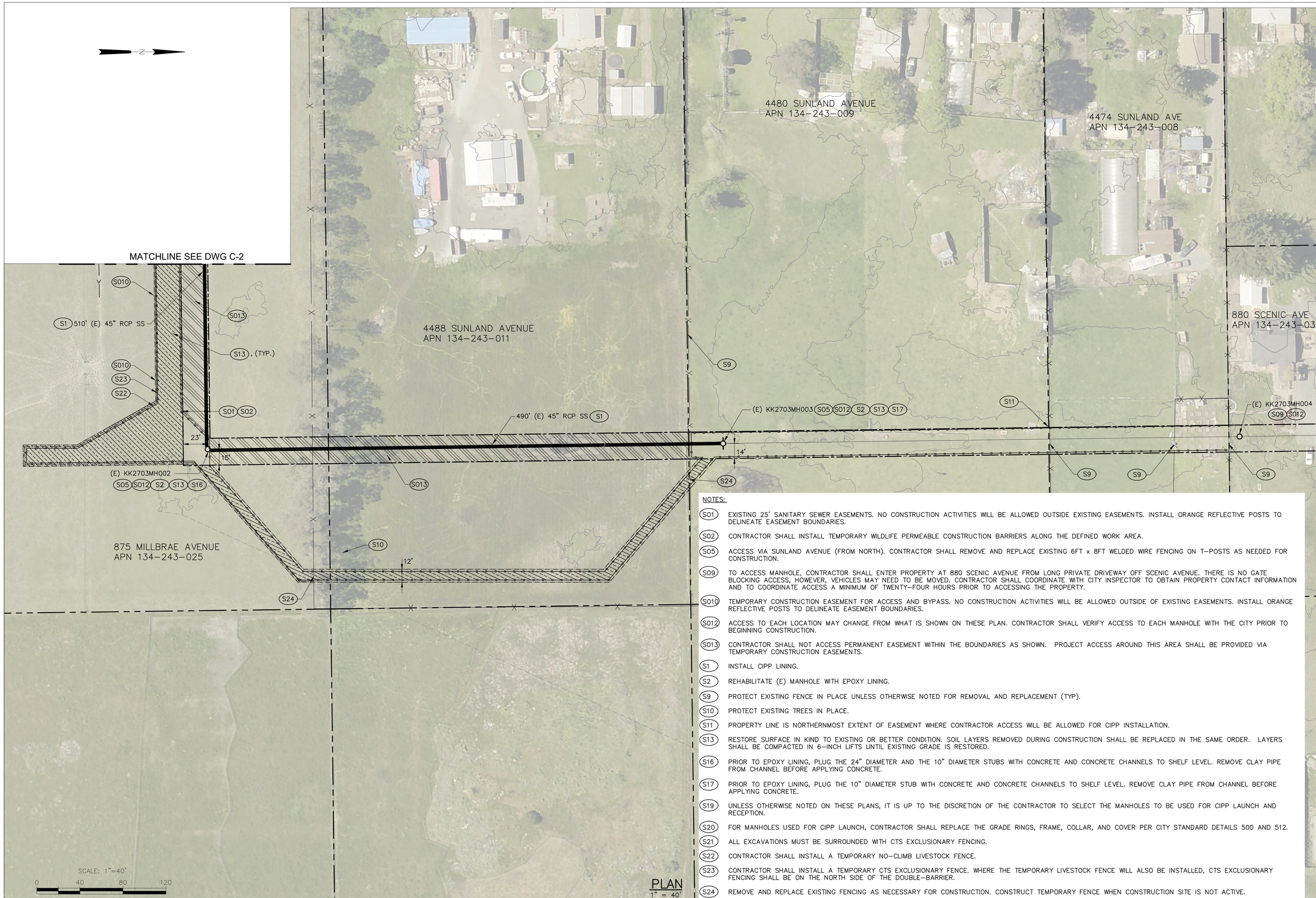
NO.	DATE	REVISION	BY

DWN BY: S. JUNG
CHK BY: M. VEGGIAN
DATE: AUGUST 2025
SCALE: AS SHOWN

ROBLES TRUNK LINING
PHASE 1 (CIP 2114)

PLAN - 2

DWG NO. C-2
CONTRACT NO. C02114
SHEET 7 OF 10
FILE NO. 2021-0017



NOTES:

- S01 EXISTING 25' SANITARY SEWER EASEMENTS. NO CONSTRUCTION ACTIVITIES WILL BE ALLOWED OUTSIDE EXISTING EASEMENTS. INSTALL ORANGE REFLECTIVE POSTS TO DELINEATE EASEMENT BOUNDARIES.
- S02 CONTRACTOR SHALL INSTALL TEMPORARY WILDLIFE PERMEABLE CONSTRUCTION BARRIERS ALONG THE DEFINED WORK AREA.
- S05 ACCESS VIA SUNLAND AVENUE (FROM NORTH). CONTRACTOR SHALL REMOVE AND REPLACE EXISTING 6FT x 8FT WELDED WIRE FENCING ON T-POSTS AS NEEDED FOR CONSTRUCTION.
- S09 TO ACCESS MANHOLE, CONTRACTOR SHALL ENTER PROPERTY AT 880 SCENIC AVENUE FROM LONG PRIVATE DRIVEWAY OFF SCENIC AVENUE. THERE IS NO GATE BLOCKING ACCESS, HOWEVER, VEHICLES MAY NEED TO BE MOVED. CONTRACTOR SHALL COORDINATE WITH CITY INSPECTOR TO OBTAIN PROPERTY CONTACT INFORMATION AND TO COORDINATE ACCESS A MINIMUM OF TWENTY-FOUR HOURS PRIOR TO ACCESSING THE PROPERTY.
- S010 TEMPORARY CONSTRUCTION EASEMENT FOR ACCESS AND BYPASS. NO CONSTRUCTION ACTIVITIES WILL BE ALLOWED OUTSIDE OF EXISTING EASEMENTS. INSTALL ORANGE REFLECTIVE POSTS TO DELINEATE EASEMENT BOUNDARIES.
- S012 ACCESS TO EACH LOCATION MAY CHANGE FROM WHAT IS SHOWN ON THESE PLAN. CONTRACTOR SHALL VERIFY ACCESS TO EACH MANHOLE WITH THE CITY PRIOR TO BEGINNING CONSTRUCTION.
- S013 CONTRACTOR SHALL NOT ACCESS PERMANENT EASEMENT WITHIN THE BOUNDARIES AS SHOWN. PROJECT ACCESS AROUND THIS AREA SHALL BE PROVIDED VIA TEMPORARY CONSTRUCTION EASEMENTS.
- S1 INSTALL CIPP LINING.
- S2 REHABILITATE (E) MANHOLE WITH EPOXY LINING.
- S9 PROTECT EXISTING FENCE IN PLACE UNLESS OTHERWISE NOTED FOR REMOVAL AND REPLACEMENT (TYP).
- S10 PROTECT EXISTING TREES IN PLACE.
- S11 PROPERTY LINE IS NORTHERNMOST EXTENT OF EASEMENT WHERE CONTRACTOR ACCESS WILL BE ALLOWED FOR CIPP INSTALLATION.
- S13 RESTORE SURFACE IN KIND TO EXISTING OR BETTER CONDITION. SOIL LAYERS REMOVED DURING CONSTRUCTION SHALL BE REPLACED IN THE SAME ORDER. LAYERS SHALL BE COMPACTED IN 6-INCH LIFTS UNTIL EXISTING GRADE IS RESTORED.
- S16 PRIOR TO EPOXY LINING, PLUG THE 24" DIAMETER AND THE 10" DIAMETER STUBS WITH CONCRETE AND CONCRETE CHANNELS TO SHELF LEVEL. REMOVE CLAY PIPE FROM CHANNEL BEFORE APPLYING CONCRETE.
- S17 PRIOR TO EPOXY LINING, PLUG THE 10" DIAMETER STUB WITH CONCRETE AND CONCRETE CHANNELS TO SHELF LEVEL. REMOVE CLAY PIPE FROM CHANNEL BEFORE APPLYING CONCRETE.
- S19 UNLESS OTHERWISE NOTED ON THESE PLANS, IT IS UP TO THE DISCRETION OF THE CONTRACTOR TO SELECT THE MANHOLES TO BE USED FOR CIPP LAUNCH AND RECEPTION.
- S20 FOR MANHOLES USED FOR CIPP LAUNCH, CONTRACTOR SHALL REPLACE THE GRADE RINGS, FRAME, COLLAR, AND COVER PER CITY STANDARD DETAILS 500 AND 512.
- S21 ALL EXCAVATIONS MUST BE SURROUNDED WITH CTS EXCLUSIONARY FENCING.
- S22 CONTRACTOR SHALL INSTALL A TEMPORARY NO-CLIMB LIVESTOCK FENCE.
- S23 CONTRACTOR SHALL INSTALL A TEMPORARY CTS EXCLUSIONARY FENCE. WHERE THE TEMPORARY LIVESTOCK FENCE WILL ALSO BE INSTALLED, CTS EXCLUSIONARY FENCING SHALL BE ON THE NORTH SIDE OF THE DOUBLE-BARRIER.
- S24 REMOVE AND REPLACE EXISTING FENCING AS NECESSARY FOR CONSTRUCTION. CONSTRUCT TEMPORARY FENCE WHEN CONSTRUCTION SITE IS NOT ACTIVE.

REGISTERED PROFESSIONAL ENGINEER
MADISON CASSERLY VEGGIAN
No. 83346
CIVIL
STATE OF CALIFORNIA

City of Santa Rosa

Woodard & Curran

NO.	DATE	REVISION	BY

DWN BY: S. JUNG
CHK BY: M. VEGGIAN
DATE: AUGUST 2025
SCALE: AS SHOWN

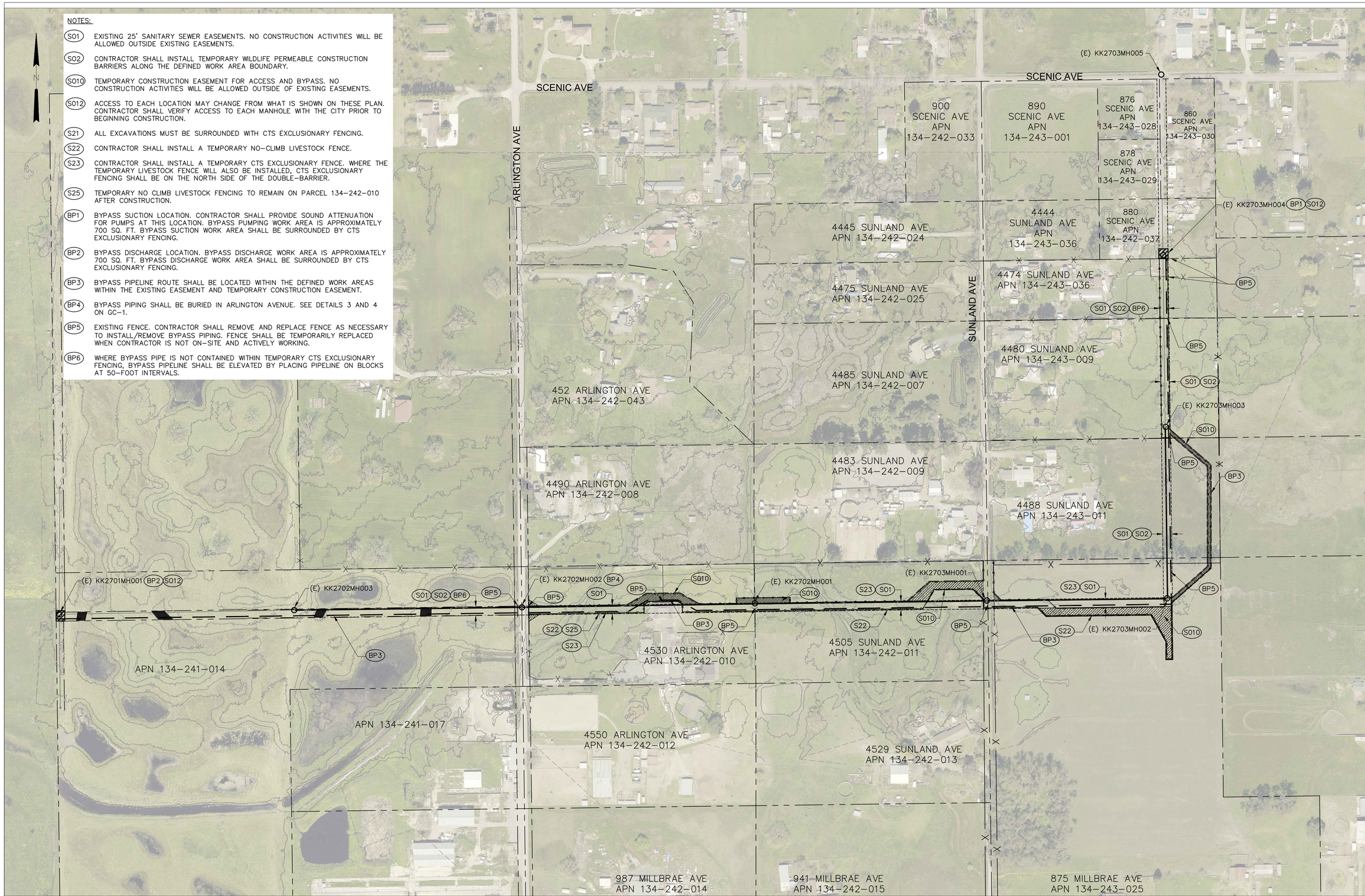
ROBLES TRUNK LINING
PHASE 1 (CIP 2114)

PLAN - 3

DWG NO. C-3
CONTRACT NO. C02114
SHEET 8 OF 10
FILE NO. 2021-0017

NOTES:

- (S01) EXISTING 25' SANITARY SEWER EASEMENTS. NO CONSTRUCTION ACTIVITIES WILL BE ALLOWED OUTSIDE EXISTING EASEMENTS.
- (S02) CONTRACTOR SHALL INSTALL TEMPORARY WILDLIFE PERMEABLE CONSTRUCTION BARRIERS ALONG THE DEFINED WORK AREA BOUNDARY.
- (S010) TEMPORARY CONSTRUCTION EASEMENT FOR ACCESS AND BYPASS. NO CONSTRUCTION ACTIVITIES WILL BE ALLOWED OUTSIDE OF EXISTING EASEMENTS.
- (S012) ACCESS TO EACH LOCATION MAY CHANGE FROM WHAT IS SHOWN ON THESE PLAN. CONTRACTOR SHALL VERIFY ACCESS TO EACH MANHOLE WITH THE CITY PRIOR TO BEGINNING CONSTRUCTION.
- (S21) ALL EXCAVATIONS MUST BE SURROUNDED WITH CTS EXCLUSIONARY FENCING.
- (S22) CONTRACTOR SHALL INSTALL A TEMPORARY NO-CLIMB LIVESTOCK FENCE.
- (S23) CONTRACTOR SHALL INSTALL A TEMPORARY CTS EXCLUSIONARY FENCE. WHERE THE TEMPORARY LIVESTOCK FENCE WILL ALSO BE INSTALLED, CTS EXCLUSIONARY FENCING SHALL BE ON THE NORTH SIDE OF THE DOUBLE-BARRIER.
- (S25) TEMPORARY NO CLIMB LIVESTOCK FENCING TO REMAIN ON PARCEL 134-242-010 AFTER CONSTRUCTION.
- (BP1) BYPASS SUCTION LOCATION. CONTRACTOR SHALL PROVIDE SOUND ATTENUATION FOR PUMPS AT THIS LOCATION. BYPASS PUMPING WORK AREA IS APPROXIMATELY 700 SQ. FT. BYPASS SUCTION WORK AREA SHALL BE SURROUNDED BY CTS EXCLUSIONARY FENCING.
- (BP2) BYPASS DISCHARGE LOCATION. BYPASS DISCHARGE WORK AREA IS APPROXIMATELY 700 SQ. FT. BYPASS DISCHARGE WORK AREA SHALL BE SURROUNDED BY CTS EXCLUSIONARY FENCING.
- (BP3) BYPASS PIPELINE ROUTE SHALL BE LOCATED WITHIN THE DEFINED WORK AREAS WITHIN THE EXISTING EASEMENT AND TEMPORARY CONSTRUCTION EASEMENT.
- (BP4) BYPASS PIPING SHALL BE BURIED IN ARLINGTON AVENUE. SEE DETAILS 3 AND 4 ON GC-1.
- (BP5) EXISTING FENCE. CONTRACTOR SHALL REMOVE AND REPLACE FENCE AS NECESSARY TO INSTALL/REMOVE BYPASS PIPING. FENCE SHALL BE TEMPORARILY REPLACED WHEN CONTRACTOR IS NOT ON-SITE AND ACTIVELY WORKING.
- (BP6) WHERE BYPASS PIPE IS NOT CONTAINED WITHIN TEMPORARY CTS EXCLUSIONARY FENCING, BYPASS PIPELINE SHALL BE ELEVATED BY PLACING PIPELINE ON BLOCKS AT 50-FOOT INTERVALS.



SCALE: 1"=125'

0 125 250 375

SCALE IN FEET

PLAN
1" = 125'

REGISTERED PROFESSIONAL ENGINEER
MADISON CASSERLY VEGGIAN
No. 83346
CIVIL
STATE OF CALIFORNIA

City of Santa Rosa

Woodard & Curran

NO.	DATE	REVISION	BY

DWN BY: S. JUNG
CHK BY: M. VEGGIAN
DATE: AUGUST 2025
SCALE: AS SHOWN

ROBLES TRUNK LINING
PHASE 1 (CIP 2114)

BYPASS PLAN

DWG NO. BP-1
CONTRACT NO. C02114
SHEET 9 OF 10
FILE NO. 2021-0017

NOTES

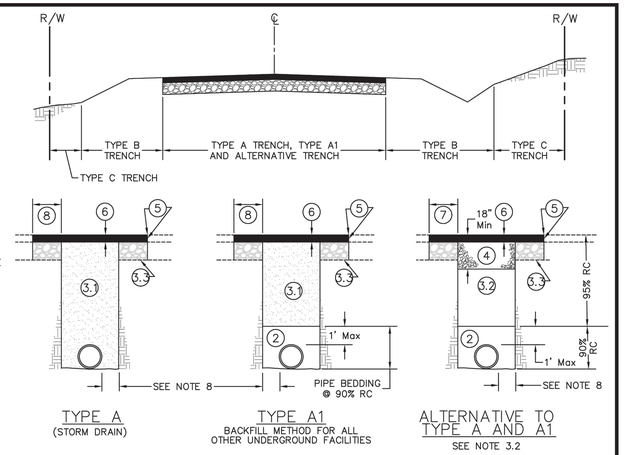
1. REFERENCES MADE TO STATE STANDARD PLANS AND STANDARD SPECIFICATIONS ARE TO THE CURRENT EDITIONS; EXCEPT FOR ASPHALT MATERIALS REFERENCE MAY 2006 PLANS AND SPECIFICATIONS.
2. PIPE BEDDING REQUIREMENTS AS REQUIRED BY AGENCY INSPECTING PIPE. STORM DRAIN BEDDING PER STATE STANDARD PLANS AND SPECIFICATIONS.

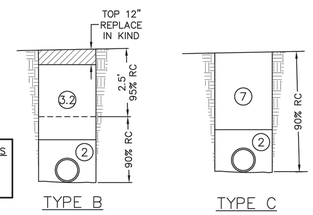
3.1 TYPE A AND A1: SLURRY CEMENT BACKFILL PER SECTION 19 OF THE STATE STANDARD SPECIFICATIONS (MAY 2006).

3.2 STRUCTURE BACKFILL MATERIAL MEETING THE SPECIFICATIONS IN SECTION 19 OF THE STATE STANDARD SPECIFICATIONS (MAY 2006) MAY BE USED AT CONTRACTOR'S OPTION. IF ALTERNATIVE IS USED, CONTRACTOR WILL PROVIDE A REPORT FROM A CIVIL ENGINEER LICENSED IN THE STATE OF CALIFORNIA, CERTIFYING THAT CONTRACTOR'S WORK MEETS SPECIFICATIONS. PEA GRAVEL SHALL NOT BE USED FOR STRUCTURE BACKFILL.

3.3 COMPACT EXISTING BASE MATERIAL TO 95% RC TYP

4. CLASS 2 AGGREGATE BASE MATERIAL. THICKNESS SHALL BE EQUAL TO THE THICKNESS OF THE EXISTING ROAD BASE, BUT IN NO CASE SHALL THE THICKNESS BE LESS THAN 18".
5. TACK COAT S.S. 1 EMULSIFIED ASPHALT. SEAL ALL JOINTS WITH CRAFCO POLYFLEX TYPE–1, OR EQUAL, AFTER PAVING.
6. TRENCH SHALL BE PAVED WITH ASPHALT CONCRETE WHOSE THICKNESS IS EQUAL TO THE THICKNESS OF THE EXISTING PAVEMENT, BUT IN NO CASE SHALL THICKNESS BE LESS THAN THAT SHOWN IN THE TRENCH A.C. PAVING TABLE. ASPHALT CONCRETE SHALL BE 1/2" TYPE A CONFORMING TO THE PROVISIONS IN SECTION 39, ASPHALT CONCRETE, OF THE CALTRANS STANDARD SPECIFICATIONS (MAY 2006).
7. REPLACE WITH NATIVE MATERIAL RELATIVE COMPACTED TO 90%.
8. REFER TO DRAWING NO. 219A FOR DIMENSION.
9. STORM DRAIN: TWO (2) FEET; SIDE CLEARANCE MAY BE REDUCED TO A MINIMUM OF 6" WHEN SLURRY CEMENT BACKFILL IS USED. UTILITIES: TWO (2) FOOT MINIMUM TRENCH WIDTH UNLESS SLURRY BACKFILL IS USED.
10. ANY PORTLAND CEMENT CONCRETE ROADWAY REMOVED DURING EXCAVATION SHALL BE REPLACED IN KIND AND THICKNESS PER STATE STANDARD PLANS P3A+P3B, LONGITUDINAL JOINT DETAILS.





MINIMUM UTILITY COVER TABLE

UTILITY TYPE	Min. DEPTH OF COVER
STORM DRAIN CONDUITS	36"
SEWER SERVICE LATERALS	36"
WATER SERVICE LATERALS	36"
WATER LINE >2" DIAMETER	36"
SEWER MAIN LINES	36"
ELECTRICAL TRANSMISSION CABLES	36"
TELECOMMUNICATION CABLES	36"
GAS DISTRIBUTION LINES & SERVICE LATERALS	36"
GAS TRANSMISSION LINES	60"

TRENCH AC PAVING TABLE

STREET TYPE	MIN. A.C. THICKNESS
RESIDENTIAL/LOCAL	0.25'
COLLECTOR	0.35'
ARTERIAL	0.45'

COUNTY OF SONOMA
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS

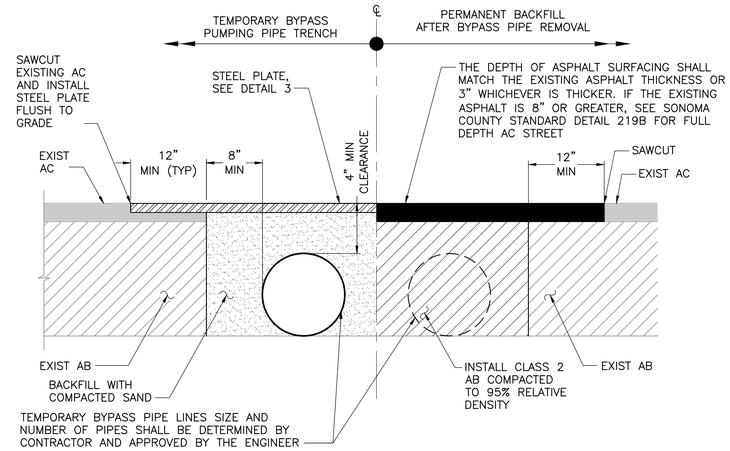
TRENCH BACKFILL AND PAVING DETAILS

DATE: MAY 2013 REV. MAR. 2020 | SCALE: NONE | DRAWING NO. 219B

NOTE:
A. TEMPORARY SEWER BYPASS PIPING IS NOT SUBJECT TO THE MINIMUM UTILITY COVER TABLE IN THIS DETAIL.

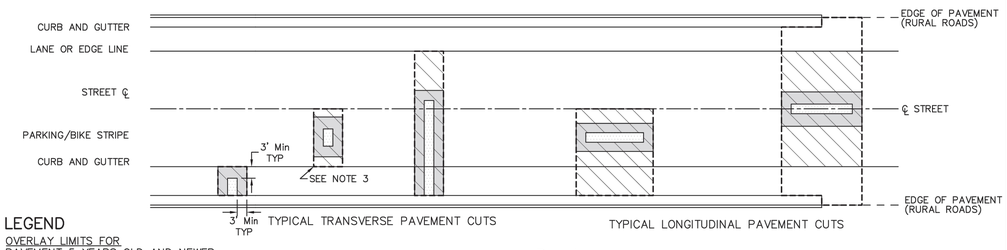
COUNTY OF SONOMA STANDARD TRENCH BACKFILL AND PAVING DETAILS (1) BP–1

NTS



TEMPORARY BURIED BYPASS PIPING WITH STEEL PLATE BRIDGING (3) BP–1

NTS



PLAN

LEGEND

OVERLAY LIMITS FOR PAVEMENT 5 YEARS OLD AND NEWER
WHEN PAVEMENT IS 5 YEARS OLD, OR LESS, A PAVEMENT PATCH IS REQUIRED TO THESE LIMITS. NO JOINTS OR REDUCTION IN AREA ARE ALLOWED. PAVEMENT REPLACEMENT IS REQUIRED TO THE NEXT ADJACENT CURB/EDGE OF PAVEMENT, PARKING OR LANE LINE WHENEVER A TRENCH OR DISTURBANCE OF ASPHALT OR SUPPORT MATERIAL EXTENDS BEYOND SUCH LINE. SEE NOTE 3 ON THIS PAGE.

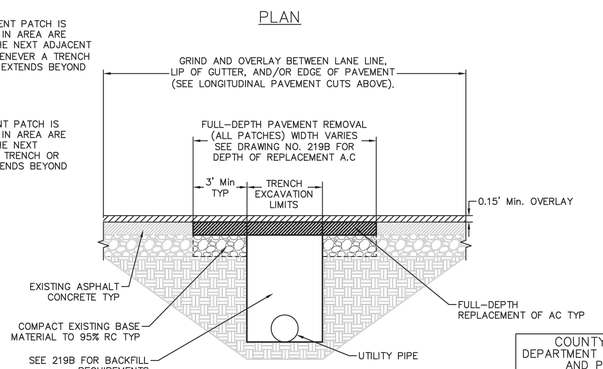
OVERLAY LIMITS FOR PAVEMENT OLDER THAN 5 YEARS
WHEN PAVEMENT IS OLDER THAN 5 YEARS, A PAVEMENT PATCH IS REQUIRED TO THESE LIMITS. NO JOINTS OR REDUCTION IN AREA ARE ALLOWED. PAVEMENT REPLACEMENT IS REQUIRED TO THE NEXT ADJACENT CURB, PARKING OR LANE LINE WHENEVER A TRENCH OR DISTURBANCE OF ASPHALT OR SUPPORT MATERIAL EXTENDS BEYOND SUCH LINE. SEE NOTE 3 ON THIS PAGE.

TRENCH LIMITS AT TOP OF PAVEMENT

T SECTION LIMITS (FULL DEPTH AC REPLACEMENT)

NOTES

1. FULL–DEPTH PAVEMENT PATCH JOINTS SHALL BE SEALED WITH CRAFCO POLYFLEX TYPE–1, OR EQUAL.
2. ALL CUTS SHALL BE PERPENDICULAR OR PARALLEL TO DIRECTION OF TRAVEL.
3. REMOVE ADDITIONAL PAVEMENT TO ADJACENT EXISTING PAVEMENT PATCH, MANHOLE, BOX, OR EDGE OF PAVEMENT IF THESE FEATURES ARE WITHIN 3 FEET OF FINAL SAW CUT.
4. SEE SONOMA COUNTY CONSTRUCTION STANDARD DRAWING 219E FOR REQUESTING AN EXCEPTION TO THIS STANDARD PLAN. APPROVED EXCEPTIONS SHALL BE INCLUDED AS SPECIAL ENCROACHMENT PERMIT CONDITIONS.



TYPICAL LIMITS OF REMOVAL

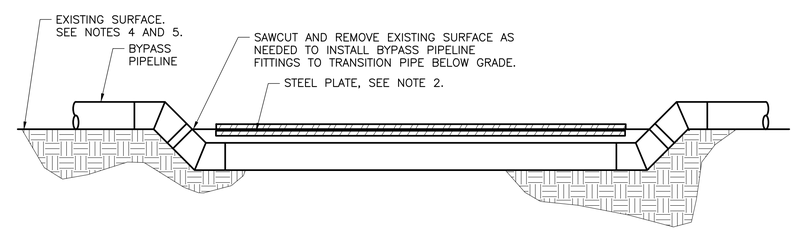
COUNTY OF SONOMA
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS

PAVEMENT CUT POLICY

DATE: MAY 2013 REV. JAN. 2020 | SCALE: NONE | DRAWING NO. 219A

COUNTY OF SONOMA STANDARD PAVEMENT CUT POLICY (2) BP–1

NTS



NOTES:
1. THIS DETAIL APPLIES TO TEMPORARY SHALLOW BURY OF BYPASS PIPELINES.
2. TRENCHES SHALL NOT BE LEFT OPEN OVERNIGHT. TRENCHES SHALL BE COVERED WITH NON–SKID, STEEL PLATES, KEYED INTO THE EXISTING SURFACE TO PREVENT MOVEMENT AND TIRE IMPACT NOISE.
3. TEMPORARY SHALLOW TRENCHES SHOULD NOT BE MORE THAN 5–FEET WIDE.
4. REPLACE DAMAGED OR REMOVED TRAFFIC STRIPPING, LEGENDS, AND MARKINGS, AS NEEDED.
5. RESTORE SURFACES TO EXISTING OR BETTER CONDITIONS. RESTORE CURB AND GUTTER PER SONOMA COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS, STANDARD VERTICAL CURB AND GUTTER DETAIL, WHERE APPLICABLE.
6. FOR ASPHALT RESTORATION, SEE DETAIL (3).

TEMPORARY SHALLOW TRENCH (4) BP–1

NTS

REGISTERED PROFESSIONAL ENGINEER MADISON CASSERLY VEGGIAN No. 83346 CIVIL STATE OF CALIFORNIA

City of Santa Rosa

Woodard & Curran

NO.	DATE	REVISION	BY

DWN BY: S. JUNG
CHK BY: M. VEGGIAN
DATE: AUGUST 2025
SCALE: AS SHOWN

ROBLES TRUNK LINING
PHASE 1 (CIP 2114)

GENERAL DETAILS

DWG NO. GC–1
CONTRACT NO. C02114
SHEET 10 OF 10
FILE NO. 2021–0017