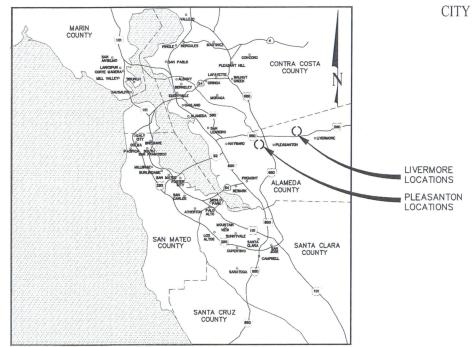
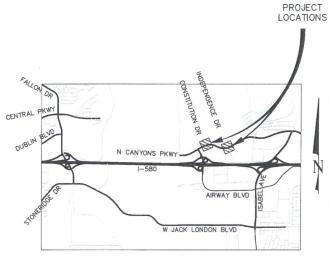
LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS

TO BE SUPPLEMENTED BY STATE STANDARD PLANS DATED 2015 AND CITY OF LIVERMORE STANDARD DETAILS DATED MAY 4, 2016 AND CITY OF PLEASANTON STANDARD DETAIL DATED NOVEMBER, 2016



VICINITY MAP



LIVERMORE LOCATION MAP NOT TO SCALE

SHEET INDEX

COVER SHEET GENERAL NOTES SALVAGE PLANS - STONERIDGE MALL SALVAGE PLANS - LIVERMORE OUTLETS SALVAGE DETAILS SALYAGE DETAILS

DEMOLITION PLANS — CONSTITUTION DRIVE

DEMOLITION PLANS — INDEPENDENCE DRIVE

NORTH CANYONS PARKWAY AND CONSTITUTION DRIVE — WESTBOUND

NORTH CANYONS PARKWAY AND CONSTITUTION DRIVE — EASTBOUND

NORTH CANYONS PARKWAY AND INDEPENDENCE DRIVE — WESTBOUND

NORTH CANYONS PARKWAY AND INDEPENDENCE DRIVE — WESTBOUND

NORTH CANYONS PARKWAY AND INDEPENDENCE DRIVE — EASTBOUND

DOWELLING DETAILS NORTH CANYONS PARKWAY AND INDEPENDENCE DRIVE — EASTBOUND DOWELLING DETAILS
RAPID BUS STOP FURNITURE DETAILS
RAPID BUS STOP SHELTER FOUNDATION DETAILS
RAPID BUS STOP COLUMN-MOUNTED FLAG SIGN STRUCTURAL DETAILS
TYPICAL RAPID BUS STOP FURNITURE LAYOUT
ELECTRICAL PLANS — CONSTITUTION DRIVE
ELECTRICAL PLANS — INDEPENDENCE DRIVE
ELECTRICAL DETAILS
ELECTRICAL DETAILS
ELECTRICAL DETAILS

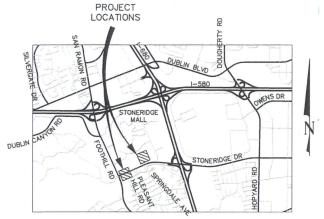
LIVERNORE AMADOR VALLEY TRANSIT AUTHORITY 1362 RUTAN COURT, SUITE 100 LIVERNORE, CA 94551 PHONE: (925) 455-7561 CONTACT: ANGELA SWANSON

SURVEYOR

LCC ENGINEERING AND SURVEYING, INC. 930 ESTUDILLO STREET MARTINEZ, CA 94553

CIVIL ENGINEER

KIMLEY—HORN AND ASSOCIATES, INC. 4637 CHABOT DRIVE, SUITE 300 PLEASANTON, CA 94588 PHONE: (925) 398-4856 CONTACT: JOHN PULLIAM



PLEASANTON LOCATION MAP

SURVEYOR'S NOTES:

- 1. THE COORDINATE SYSTEM IS BASED ON A RTK GPS ESTABLISHED CONTROL NETWORK ON SITE, USING THE COORDINATE SYSTEM IS BASED ON A RIK GPS ESTABLISHED CONTROL NETWORK ON SITE, USING NADB3 CCS ZONE 3 COORDINATES (EPOCH 2010.0). BASELINE CONTROL POINTS ESTABLISHED ON-SITE ARE LCC CP #101 (N 2081607.35, E 6180518.43 — GPS COORDINATE HELD HERE), A SET CUT + IN CONC AT THE SOUTH SIDE OF NORTH CANYONS PARKWAY AND WEST OF CONSTITUTION DRIVE, LCC CP #102 (N 2081795.34, E 618085.7.94), A SET REBAR ON THE NORTH SIDE OF NORTH CANYONS PARKWAY AND LEAST OF CONSTITUTION DRIVE, DISTANCES AND COORDINATES AS SHOWN ON THIS SURVEY SHOULD BE CONSIDERED AS GROUND DISTANCES AND COORDINATES.
- 2. ELEVATIONS ARE BASED ON NAVD88, PER RTK GPS SURVEY ESTABLISHED CONTROL POINTS. SITE BENCHMARK WAS HELD AT LCC CP #101 (SEE ABOVE FOR DESCRIPTION), ELEVATION HELD AS 455.87 FEET, (NAVD88).
- 3. THIS SURVEY DOES NOT REPRESENT A COMPLETE BOUNDARY SURVEY, ALL PROPERTY CORNERS HAVE NOT BEEN SEARCHED FOR OR LOCATED. NEW CORNERS OR MONUMENTS HAVE NOT BEEN SET DURING THIS SURVEY. THE BOUNDARY (PROPERTY) LINES SHOWN HEREON ARE BASED ON RECORD INFORMATION ONLY. ALL EASEMENTS MAY NOT BE SHOWN.
- 4. UTILITIES SHOWN ARE BASED UPON SURFACE OBSERVATIONS OF STRUCTURES AND USA MARKINGS FOUND IN FIELD (IF APPLICABLE). THE SURVEYOR ASSUMES NO RESPONSIBILITY FOR LOCATIONS, CAPACITIES OR FUNCTIONALITY OF ALL UTILITIES SHOWN HEREON. SOME UNDERGROUND UTILITIES MAY NOT BE SHOWN.

	CON	NTROL P	OINT TA	BLE	
POINT #	NORTHING	EASTING	ELEVATION	NAME	DESCRIPTION
101	2081607.350	6180518.430	455.87	LCC CP #101	CP CUT +
102	2081795.340	6180857.940	450.03	LCC CP #102	CP CUT +
109	2081622.710	6182291.530	435.19	LCC CP #109	CP CUT +
110	2081418.620	6181863.870	437.66	LCC CP #110	CP CUT +

ABBREVIATIONS AND SYMBOLS:

THE ARBREVIATIONS SHOWN IN THIS PLAN ARE TO BE SUPPLEMENTED BY CALTRANS 2015 STANDARD PLANS.

AMERICAN SOCIETY FOR TESTING ASTM AND MATERIALS
BACK OF CURB
BACK OF WALK
CONDUIT
CALIFORNIA BUILDING CODE

CALIFORNIA BUILDING CODE
CIRCLE/CIRCULAR
EASTING/EAST
FACE OF CURB
GLOBAL POSITIONING SYSTEM E FC GPS KSI LAVTA KIPS PER SQUARE INCH LIVERMORE AMADOR VALLEY

MILES PER HOUR PACIFIC GAS AND ELECTRIC POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH

REFERENCE TOP OF CURB

NO. DETAIL REFERENCE SHEET FILE NAME

STATE STANDARD PLAN REFERENCE

CITY STANDARD PLAN REFERENCE

APPROVAL OF THESE PLANS DOES NOT RELEASE THE CONTRACTOR OF THE RESPONSIBILITY FOR CORRECTION OF MISTAKES, ERRORS, OR OMISSIONS CONTAINED THEREIN. IF DURING THE COURSE OF CONSTRUCTION OF THE IMPROVEMENTS PUBLIC INTEREST REQUIRES A MODIFICATION OF OR A DEPARTURE FROM THE SPECIFICATIONS AND DETAILS OF THE CITY OF LIVERMORE OR THESE PLANS, THE ENGINEER FROM THE CITY SHALL HAVE THE AUTHORITY TO REQUIRE SUCH MODIFICATIONS OR DEPARTURE AND TO SPECIFY THE MANNER IN WHICH SAME IS TO BE MADE.

APPROVED AS TO DESIGN ONLY BASED ON INFORMATION SUBMITTED HEREON



KIMLEY-HORN AND ASSOCIATES, INC.

1 of 20

7/24/2017 SHFFT SCALE: N/A

PHONE: (925) 228-4218 CONTACT: CHRISTINE PARKS

LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY

1362 Rutan Court, Suite 100, Livermore, CA. 94551

LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS

COVER SHEET

LIVERMORE

CALIFORNIA

RAWN.

HECKED:

EPUTY DIRECTOR

TRAFFIC ENGINEER



Kimley » Horn

FILE NAME: CV-01

CA: 1-800-227-2600

- 1. ALL MATERIAL AND WORKMANSHIP SHALL FULLY CONFORM TO THE SPECIFICATIONS, STANDARDS, AND ORDINANCES OF THE CITY OF LIVERMORE AND THE CITY OF PLEASANTON.
- 2. THE LOCATION AND DEPTHS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THE UNDERGROUND CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION TO FIELD LOCATE UTILITIES. CONTACT UNDERGROUND SERVICE ALERT AT 1-800-227-2600. ANY ADDITIONAL COST INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY THE LOCATIONS OF IDENTIFIED OR UNIDENTIFIED UTILITIES. PRIOR TO BEGINNING OF CONSTRUCTION, SHALL BE BORNE BY THE CONTRACTOR.
- 3. THE CONTRACTOR SHALL PROVIDE ADEQUATE COVER FOR THE PROTECTION OF ALL PROPOSED AND EXISTING UTILITIES DURING THE CONSTRUCTION OF THE
- 4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE ENGINEER UPON DISCOVERY OF ANY FIELD CONFLICTS.
- 5. ANY DEVIATION OR CHANGES IN THESE PLANS WITHOUT OFFICIAL APPROVAL OF THE DESIGN ENGINEER SHALL ABSOLVE THE DESIGN ENGINEER OF ANY AND ALL RESPONSIBILITY OF SAID DEVIATION OR CHANGE.
- 6. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER.
- 7. THE CONTRACTOR SHALL HAVE EMERGENCY TELEPHONE NUMBERS FOR POLICE, FIRE, AMBULANCE, AND THOSE AGENCIES RESPONSIBLE FOR MAINTENANCE OF UTILITIES IN THE VICINITY OF THE JOB SITES.
- 8. ALL EXISTING UTILITIES AND PRIVATE IMPROVEMENTS, INCLUDING ALL PULL BOXES AND IRRIGATION FACILITIES, THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE ENGINEER, AT CONTRACTOR'S SOLE EXPENSE
- 9. THE CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT JUST DURING NORMAL WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE CITY AND LAVTA HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF CIVIL ENGINEER.
- 10. SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
- 11. EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE AND IN PLACE BY THE CONTRACTOR DURING CONSTRUCTION UNLESS OTHERWISE SHOWN ON THE
- 12. CONTRACTOR SHALL BE RESPONSIBLE AND ADVISE CITY OR UTILITY OWNER OF ANY DAMAGE TO THE TRAFFIC SIGNAL SYSTEM IMMEDIATELY AND PAY FOR ALL REPAIRS. THE TRAFFIC SIGNAL SYSTEM SHALL BE REPAIRED WITHIN 48 HOURS. FIBER OPTIC CABLES IF DISTURBED SHALL BE FULLY REPAIRED WITHING 72 HOURS. LIQUIDATED DAMAGE OF \$100 EACH DAY MAY APPLY PAST THE 48 HOUR AND 72 HOUR PERIOD RESPECTIVELY.
- ALL EXISTING SIGNS AND POSTS SHALL REMAIN UNLESS OTHERWISE NOTED.
- 14. SIDEWALK AND SAFE PEDESTRIAN PATHWAYS SHALL BE PROVIDED AT ALL TIMES. ANY WORK ASSOCIATED WITH REMOVAL OF SIDEWALK OR PEDESTRIAN PATHWAY AREA SHALL BE REPLACED WITHIN TEN (10) CALENDAR DAYS, LIQUIDATED DAMAGES OF \$200 PER DAY WILL APPLY. AT ALL TIMES, SAFE PEDESTRIAN (ADA), BICYCLE AND VEHICLE ACCESS SHALL BE PROVIDED TO THE SATISFACTION OF THE ENGINEER. ALL AMENITIES REQUIRED FOR THE RECONSTRUCTION OF SIDEWALK AND BUS PLATFORM SHALL BE ON-HAND PRIOR TO DEMOLISHING THE EXISTING SIDEWALK.
- 15. WORK ON THESE PLANS SHALL CONFORM TO THE 2015 EDITION OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION (CALTRANS), STANDARD SPECIFICATIONS, STANDARD PLANS, SIGN SPECIFICATION SHEETS, AND SPECIAL PROVISIONS.
- 16. ALL SIGN CODES REFER TO THE 2016 CALIFORNIA EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 17. THE CONTRACTOR SHALL DISPOSE OF EXCESS MATERIAL OFF-SITE IN CONFORMANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- 18. THE CONTRACTOR SHALL MINIMIZE CONSTRUCTION NOISE.
- 19. LANE CLOSURES SHALL NOT BE PERMITTED. MAINTAIN THE EXISTING LANE CONFIGURATIONS, WITH A MINIMUM LANE WIDTH OF 11 FEET. THE FULL WIDTH OF THE TRAVELED WAY SHALL BE OPEN FOR USE BY PUBLIC TRAFFIC ON SATURDAYS, SUNDAYS AND DESIGNATED LEGAL HOLIDAYS; AFTER 3:00 P.M. ON FRIDAYS AND THE DAY PRECEDING DESIGNATED LEGAL HOLIDAYS; AND WHEN CONSTRUCTION OPERATIONS ARE NOT ACTIVELY IN PROGRESS.
- 20. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF TITLE 24 OF THE CALIFORNIA ADMINISTRATIVE CODE, THE UNIFORM BUILDING CODE, CAL-OSHA, CITY, AND STATE REQUIREMENTS, THE GOVERNING BUILDING AUTHORITY, AND ANY SPECIAL REQUIREMENTS OF THE BUILDING PERMIT. ALL CODES, STANDARDS, AND SPECIFICATIONS SHALL BE AS AMENDED TO DATE, ANY VIOLATION WILL RESULT IN STOPPING OF ALL WORK UNTIL THE VIOLATION IS CORRECTED.

- 21. THE DRAWINGS AND SPECIFICATIONS DESCRIBE IN GENERAL THE QUALITY AND CHARACTER OF THE MATERIALS, SHAPE, AND CONFIGURATION OF IMPROVEMENTS AND THE DESIGN INTENT OF THE COMPLETED, INSTALLED WORK. MISCELLANEOUS ITEMS OF WORK, MATERIAL, EQUIPMENT, ETC., NECESSARY TO COMPLETE THE INSTALLATION SHALL BE PROVIDED BY THE CONTRACTOR WHETHER OR NOT MENTIONED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- 22. DIVIDE ALL TOOLS, TRANSPORTATION, UTILITIES, TEMPORARY FACILITIES, AND OTHER SERVICES AS NECESSARY FOR PROPER EXECUTION OF THE WORK, AND ASSUME FULL RESPONSIBILITY FOR PROTECTION AND SAFEKEEPING OF THESE ELEMENTS DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBILE FOR STORAGE OF MATERIAL OFF-SITE AT NO EXTRA COST TO LAVTA OR THE CITY OF LIVERMORE.
- 23. MAINTAIN "GOOD HOUSEKEEPING" PRACTICES AT THE JOB SITE. LIMIT ON-SITE STAGING OF EXCESS BUILDING MATERIALS AND REMOVE DEBRIS PROMPTLY FROM THE JOB SITE AND DISPOSE OF AT AN APPROVED DUMPSITE. LEAVE THE JOB SITE "BROOM CLEAN" AT THE END OF EACH WORKDAY. BEFORE ACCEPTANCE BY THE ENGINEER AND CITY'S REPRESENTATIVE, THE COMPLETED CONSTRUCTION SHALL BE CLEANED, ANY APPLICABLE LABELS REMOVED, AND ALL OTHER TOUCHUP WORK COMPLETED. ALL FINISH MATERIALS SHALL BE PROTECTED AT ALL TIMES AGAINST SUBSEQUENT DAMAGE UNTIL FINAL ACCEPTANCE BY THE ENGINEER AND THE CITY'S REPRESENTATIVE.
- 24. FIELD INVESTIGATE, VERIFY, AND BE RESPONSIBLE FOR ALL CONDITIONS, ELEVATIONS, AND DIMENSIONS OF THE PROJECT, AS SHOWN ON OR REFERENCED ON THE DRAWINGS, AND NOTIFY THE ENGINEER ABOUT ANY CONDITION REQUIRING MODIFICATION OR CHANGE PRIOR TO THE START OF CONSTRUCTION. EXAMINE THE DRAWINGS AND SPECIFICATIONS AND CLEARLY UNDERSTAND THE EXISTING CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED PRIOR TO BIDDING. ENTERING INTO AN AGREEMENT WITH LAVTA INDICATES THAT THE CONTRACTOR HAS VISITED THE SITES, FAMILIARIZED HIMSELF OR HERSELF WITH EXISTING CONDITIONS AND REVIEWED SAME WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS. NO ALLOWANCES OF ANY KIND WILL BE MADE FOR ANY EXTRA COST DUE TO THE CONTRACTOR'S FAILURE TO INFORM THE ENGINEER OF DISCREPANCIES IN TIME TO ISSUE CORRECTIVE ADDENDA PRIOR TO BIDDING. THE CONTRACT DOCUMENTS ILLUSTRATE THE INTENT OF THE WORK TO BE PERFORMED.
- 25. CONSTRUCTION OPERATIONS: WASTEWATER GENERATED DURING CONSTRUCTION SHALL NOT BE DISCHARGED TO THE STORM DRAIN SYSTEM. THIS INCLUDES WASTE FROM PAINTING, SAWCUTTING, CONCRETE WORK, ETC. THE CONTRACTOR SHALL MAKE ARRANGEMENTS TO ELIMINATE DISCHARGE TO THE STORM DRAIN SYSTEM AND, IF NECESSARY, PROVIDE AN AREA FOR ON SITE WASHING ACTIVITIES DURING CONSTRUCTION. MATERIALS THAT COULD CONTAMINATE STORM RUNOFF SHALL BE STORED IN AREAS WHICH ARE DESIGNED TO PREVENT EXPOSURE TO RAINFALL AND NOT ALLOW STORM WATER TO RUN ONTO THE AREA. CONTRACTOR RESPONSIBLE FOR STORM WATER POLLUTION PREVENTION BEST MANAGEMENT PRACTICES CONSISTENT WITH INDUSTRY STANDARDS.
- 26. ALL EQUIPMENT GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE NATIONAL ELECTRIC CODE, LATEST EDITION. ALL ELECTRICAL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE, AS WELL AS STATE AND LOCAL CODES AND REQUIREMENTS.
- 27. ALL CONDUIT SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
- 28. WIITHIN TWENTY (20) DAYS FOLLOWING COMPLETION AND ACCEPTANCE OF THE PROJECT CONSTRUCTION CONTRACT, A FULL AND COMPLETE AS-BUILT DRAWING SET SHALL BE DEVELOPED BY THE CONTRACTOR FOR ALL BUS STOPS. THE CONTRACTOR SHALL MEET WITH THE ENGINEER AND THE CITY AND ITS PROJECT INSPECTOR PRIOR TO DEVELOPING AS-BUILT PLANS SO A CONSENSUS CAN BE REACHED ON HOW TO SHOW FIELD CHANGES THAT WERE NOT DIRECTLY REFLECTED IN THIS PLAN SET. AS-BUILT DRAWINGS SHALL NOT BE SUBMITTED FOR CITY REVIEW UNTIL ALL CONSTRUCTION ITEMS ARE IN PLACE AND COMPLETE. THE AS-BUILT DRAWINGS ARE TO BE A TRUE REPRESENTATION OF ELEMENTS THAT EXIST AS A RESULT OF THE COMPLETED CONSTRUCTION PROJECT AS OUTLINED IN THIS PLAN SET. THE AS-BUILT PLAN SET SHALL BE IN A FORMAT EXACTLY AS REPRESENTED IN THIS DRAWING. THREE (3) FULL SIZED SETS (24"X36") OF THE AS-BUILTS DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER AND THE CITY FOR REVIEW. ONCE REVISIONS ARE MADE BY THE CONTRACTOR, AS DICTATED BY THE ENGINEER AND THE CITY, THE CONTRACTOR SHALL RESUBMIT THREE (3) FULL SIZED SETS (24"X36") TO THE ENGINEER AND THE CITY FOR THEIR REVIEW UNTIL THE PLAN IS APPROVED IN WRITING BY THE ENGINEER AND THE CITY.
- 29. NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL CREATE, NOR SHALL BE CONSTRUED TO CREATE ANY CONTRACTUAL RELATIONSHIP BETWEEN THE ENGINEER AND THE CONTRACTOR OR SUBCONTRACTOR.
- 30. THE ENGINEER WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES OR FOR SAFETY PRECAUTIONS OR PROGRAMS, UTILIZED IN CONNECTION WITH THE WORK, AND WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

LIVERMORE

31. ALL SITE WORK SHALL BE IN CONFORMANCE WITH TITLE 24 OF THE CALIFORNIA ADMINISTRATIVE CODE AND WITH THE AMERICANS WITH DISABILITIES ACT.

LEGEND

	LEGEND	
PROPOSED)	EXISTING
ν	CITY OF LIVERMORE STANDARD CONCRETE SIDEWALK	
	RAPID CONCRETE PLATFORM	
	SIDEWALK REMOVAL	
	RAPID BUS STOP FLAG POLE AND SIGNAGE	
\odot	RAPID TRASH AND RECYCLING RECEPTACLES (SET OF TWO RECEPTACLES)	
	RAPID PEDESTRIAN BENCH	
	TYP. UTILITY BOX/VAULT	
[5' X 8' WHEELCHAIR CLEAR ZONE	
<i>/////////////////////////////////////</i>	CONCRETE SAWCUT LINE	
	TELEPHONE MANHOLE	
	WATER VALVE	wv
	CABLE TV LINE	CTV
	ELECTRIC LINE	——Е——
	FIBER OPTIC LINE -	FO
	GAS LINE -	G
	JOINT UTILITY LINE	JT
	OVERHEAD UTILITY LINE	——————————————————————————————————————
	STORM DRAIN LINE	SD
	SANITARY SEWER LINE	s
	TELEPHONE LINE	т
	TRAFFIC SIGNAL LINE	TS
	WATER LINE -	
	RIGHT-OF-WAY	
	AC PAVEMENT SAWCUT LINE	
	FENCE —	X
	CURB =	
	DOWN GUY WIRE	Z Z
	TRAFFIC SIGNAL POLE	Φ
	FIRE HYDRANT	Ξ
	POWER POLE	J.
	SANITARY SEWER MANHOLE	S
	STREET SIGN	_0_
	STORM DRAIN MANHOLE	60



REV. | DATE DESCRIPTION

LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY

1362 Rutan Court, Suite 100, Livermore, CA. 94551

LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS

GENERAL NOTES

DRAWN:	PROFESSION E PULL
CHECKED:	STORY OF THE STORY
DEPUTY DIRECTOR:	66697
TRAFFIC ENGINEER:	TYPE OF CALIFORNIA

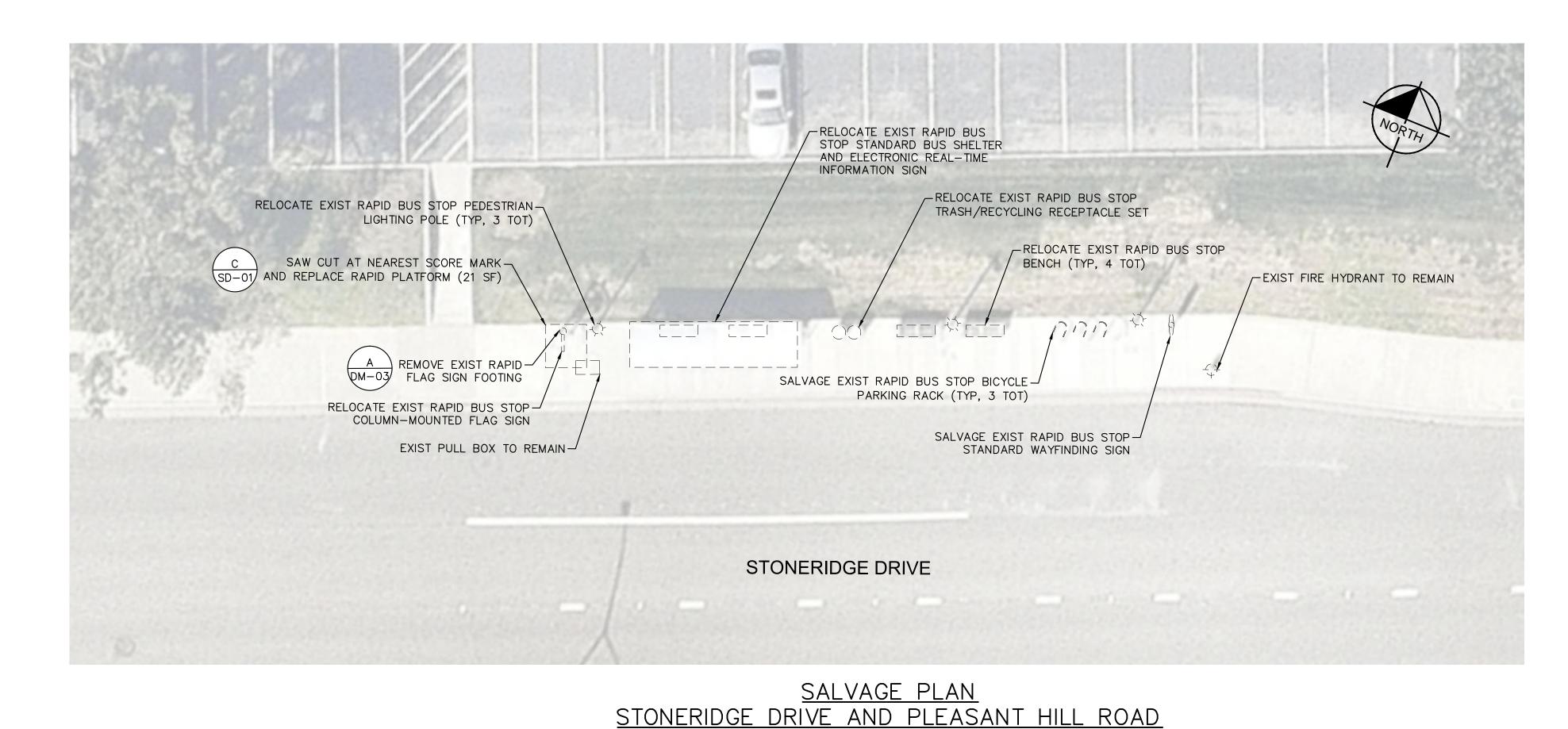
CALIFORNIA



Cimley Horr	
© KIMLEY—HORN AND ASSOCIATES, INC.	
4637 CHABOT DR, STE 300	
PLEASANTON, CA 94588	
PHONE: 925-398-4840	
WWW.KIMLEY-HORN.COM	

APPROVED:	DATE: 7/24/2017	SHEE
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CITY ENGINEER RCE #38751	FILE NAME: GN-01	2 of 2





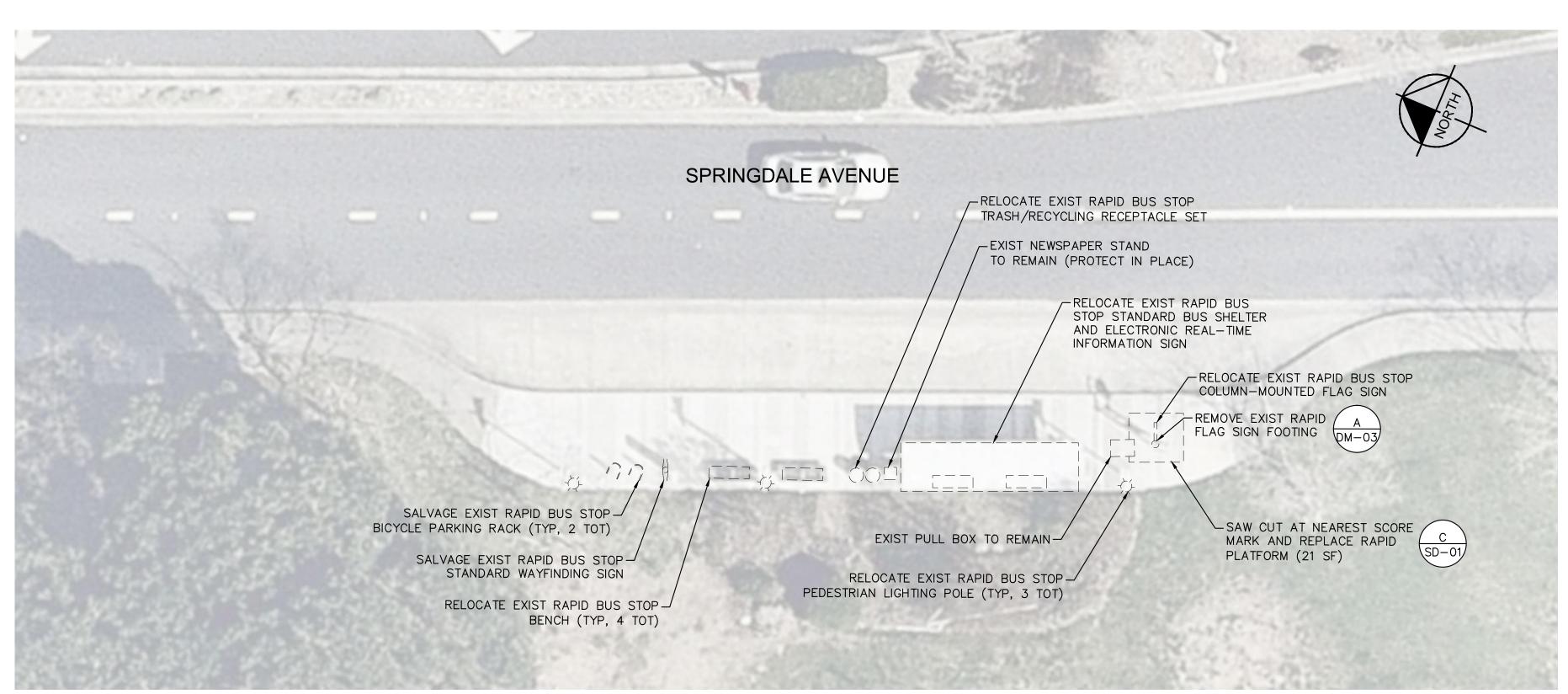
AMMENITY INVENTORY			
DESCRIPTION	QUANTITY	ACTION	
RAPID BUS STOP STANDARD BUS SHELTER	1	RELOCATE	
ELECTRONIC REAL—TIME INFORMATION SIGN	1	RELOCATE	
RAPID BUS STOP BENCH	4	RELOCATE	
RAPID BUS STOP TRASH/RECYCLING RECEPTACLE SET	1	RELOCATE	
RAPID BUS STOP BICYCLE PARKING RACK	3	SALVAGE	
RAPID BUS STOP STANDARD WAYFINDING SIGN	1	SALVAGE	
RAPID BUS STOP COLUMN-MOUNTED FLAG SIGN	1	RELOCATE	
RAPID BUS STOP PEDESTRIAN LIGHTING POLE	3	RELOCATE	



LOCATION MAP NOT TO SCALE

<u>NOTES</u>

- 1. PRIOR TO REMOVAL ACTIVITIES, CONTRACTOR SHALL PHOTOGRAPH INFRASTRUCTURE TO BE SALVAGED IN SUFFICIENT DETAIL TO DOCUMENT EXISTING CONDITION.
- 2. CONTRACTOR IS RESPONSIBLE FOR CONDITION OF RELOCATED AND SALVAGED MATERIALS. DAMAGED ITEMS WILL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- 3. EXISTING PEDESTRIAN LIGHT POLE TO BE REMOVED PER PLAN. CONTRACTOR TO MODIFY EXISTING LIGHTING CIRCUIT AFTER REMOVAL TO MAINTAIN CIRCUIT CURRENT. CONTRACTOR TO INFORM ENGINEER TO REMOVE PEDESTRIAN LIGHT FROM SERVICE A MINIMUM OF 72 HOURS PRIOR TO PLANNED REMOVAL.
- 4. ALL DISCONNECTED ELECTRICAL CONDUCTORS SHALL BE PULLED BACK INTO THE NEAREST PULL BOX AND COILED FOR FUTURE USE.
- 5. GRIND ALL EXISTING BOLTS AND ANCHORS FLUSH WITH SIDEWALK.
- EXISTING INFRASTRUCTURE LOCATED BEHIND AND ADJACENT TO THE EXISTING BUS PLATFORM, INCLUDING IRRIGATION AND UTILITY PULL BOXES, SHALL BE PROTECTED IN PLACE. ANY DAMAGE TO THESE ITEMS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- ITEMS INDICATED TO BE RELOCATED SHALL BE RELOCATED TO NEW RAPID BUS STOPS TO BE CONSTRUCTED ON NORTH CANYONS PARKWAY. SEE CD SHEETS.



		SALV	'AGE PLA	AN	
SPRINGDALE	AVENUE	AND	KAISER	PERMANENTE	ENTRANC

DESCRIPTION	QUANTITY	ACTION
RAPID BUS STOP STANDARD BUS SHELTER	1	RELOCATE
ELECTRONIC REAL—TIME INFORMATION SIGN	1	RELOCATE
RAPID BUS STOP BENCH	4	RELOCATE
RAPID BUS STOP TRASH/RECYCLING RECEPTACLE SET	1	RELOCATE
RAPID BUS STOP BICYCLE PARKING RACK	2	SALVAGE
RAPID BUS STOP STANDARD WAYFINDING SIGN	1	SALVAGE
RAPID BUS STOP COLUMN—MOUNTED FLAG SIGN	1	RELOCATE
RAPID BUS STOP PEDESTRIAN LIGHTING POLE	3	RELOCATE

AMMENITY INVENTORY

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REV.	DATE	DESCRIPTION	
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LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY

1362 Rutan Court, Suite 100, Livermore, CA. 94551

LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS

SALVAGE PLANS -LIVERMORE CALIFORNIA TRAFFIC ENGINEER: STONERIDGE MALL

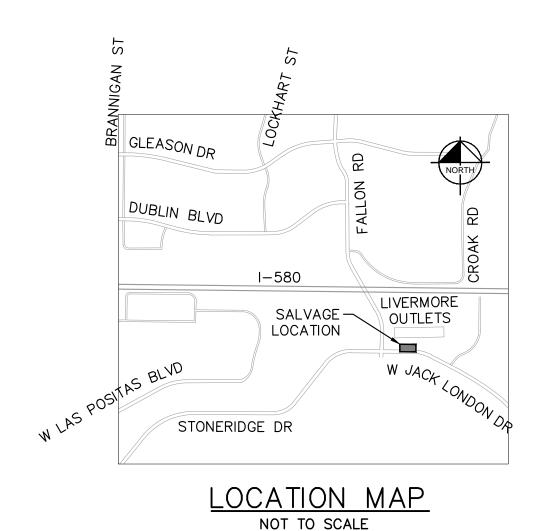
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CHECKED:		© KIMLEY—HORN AN
DEPUTY DIRECTOR:	10. 66697 ×	4637 CHABO PLEASANTOI
TRAFFIC ENGINEER:	OF CALIFORNIA	PHONE: 925 WWW.KIMLE

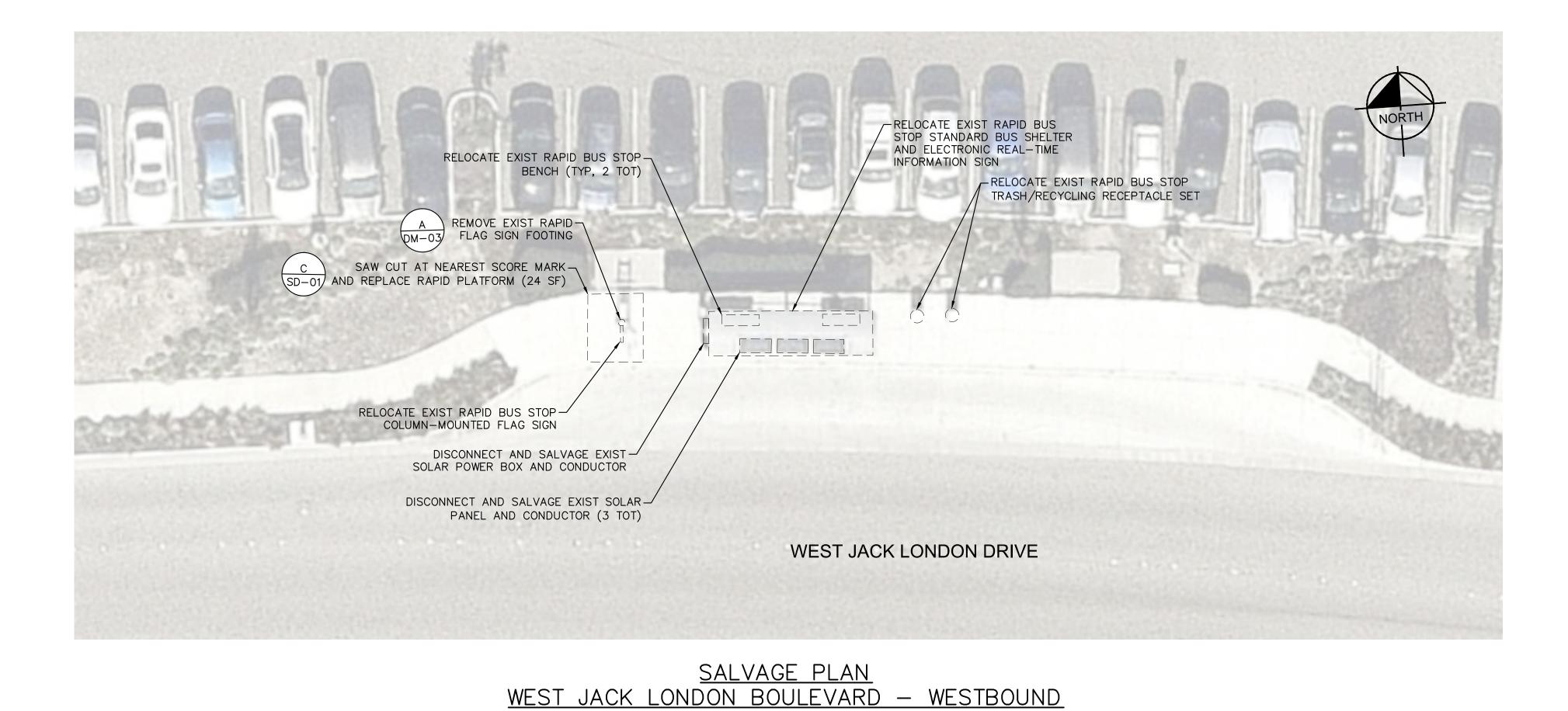
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4637 CHABOT DR, STE 300
PLEASANTON, CA 94588
PHONE: 925-398-4840
WWW KIMLEY—HORN COM

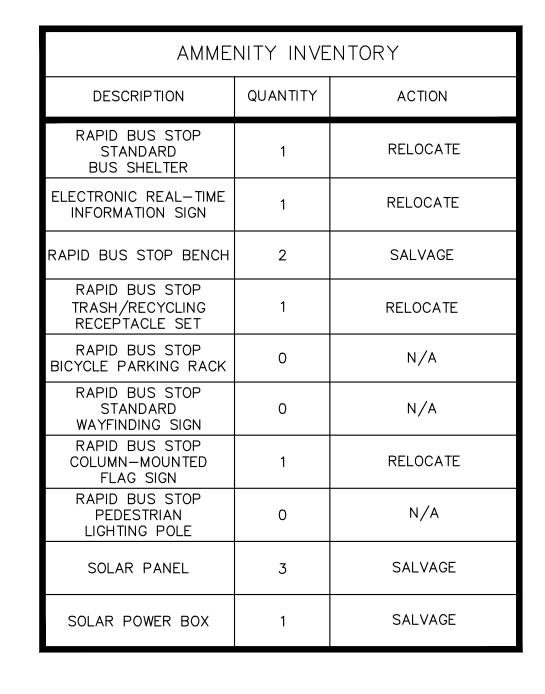
APPROVED:	DATE: 7/24/2017	SHEET
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	FILE NAME: DM-01	3 of 20

► CA: 1-800-227-2600 **~**

► CA: 1-800-227-2600**-**







AMMENITY INVENTORY

QUANTITY

ACTION

RELOCATE

RELOCATE

SALVAGE

RELOCATE

N/A

N/A

RELOCATE

N/A

SALVAGE

SALVAGE

DESCRIPTION

RAPID BUS STOP

STANDARD

BUS SHELTER

LECTRONIC REAL-TIME

INFORMATION SIGN

RAPID BUS STOP BENCH

RAPID BUS STOP TRASH/RECYCLING

RECEPTACLE SET

RAPID BUS STOP

RAPID BUS STOP

STANDARD

WAYFINDING SIGN RAPID BUS STOP

COLUMN-MOUNTED

FLAG SIGN

RAPID BUS STOP

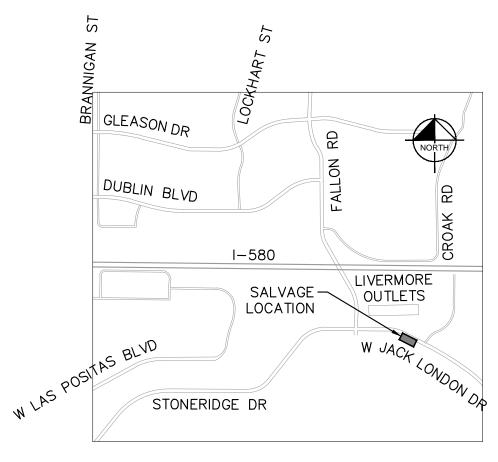
PEDESTRIAN

SOLAR PANEL

SOLAR POWER BOX

LIGHTING POLE

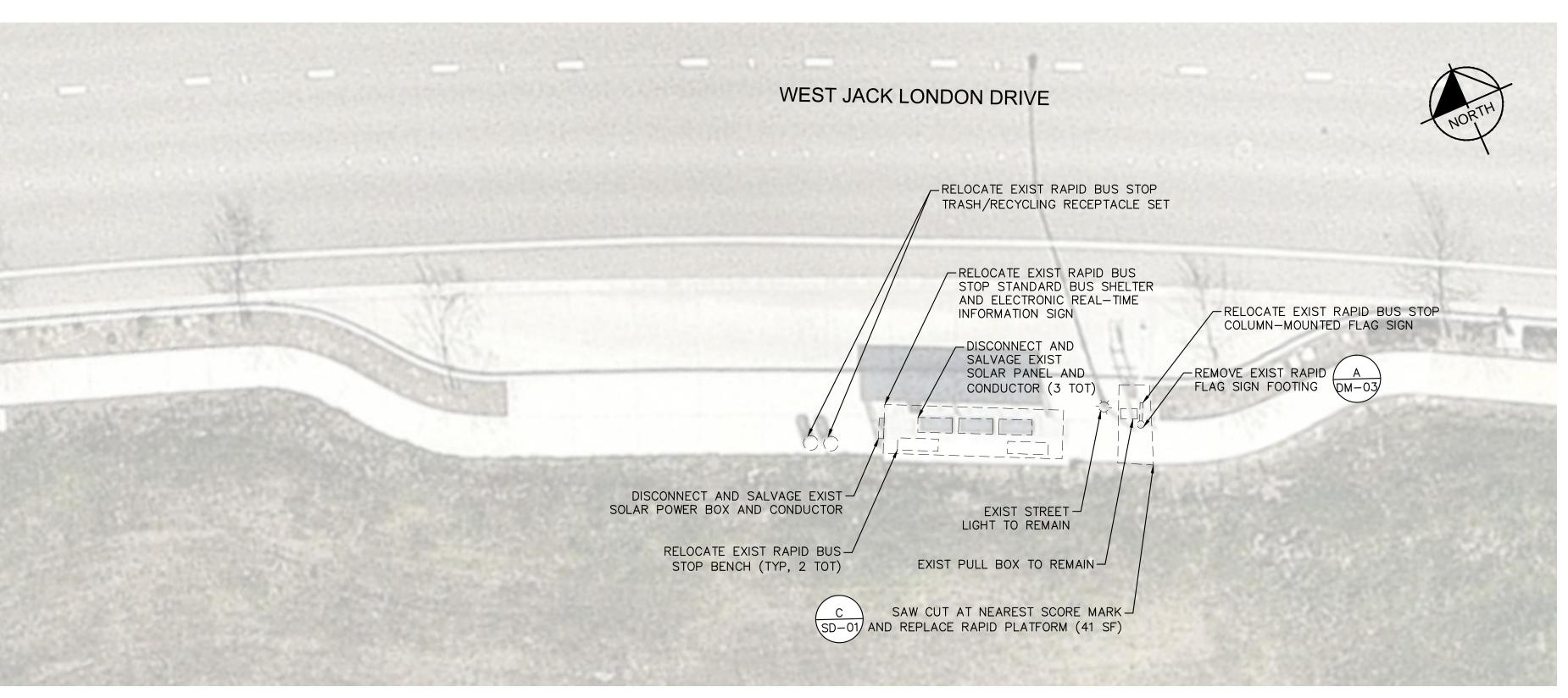
BICYCLE PARKING RACK



LOCATION MAP NOT TO SCALE

<u>NOTES</u>

- 1. PRIOR TO REMOVAL ACTIVITIES, CONTRACTOR SHALL PHOTOGRAPH INFRASTRUCTURE TO BE SALVAGED IN SUFFICIENT DETAIL TO DOCUMENT EXISTING CONDITION.
- 2. CONTRACTOR IS RESPONSIBLE FOR CONDITION OF RELOCATED AND SALVAGED MATERIALS. DAMAGED ITEMS WILL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- 3. EXISTING PEDESTRIAN LIGHT POLE TO BE REMOVED PER PLAN. CONTRACTOR TO MODIFY EXISTING LIGHTING CIRCUIT AFTER REMOVAL TO MAINTAIN CIRCUIT CURRENT. CONTRACTOR TO INFORM ENGINEER TO REMOVE PEDESTRIAN LIGHT FROM SERVICE A MINIMUM OF 72 HOURS PRIOR TO PLANNED REMOVAL.
- 4. ALL DISCONNECTED ELECTRICAL CONDUCTORS SHALL BE PULLED BACK INTO THE NEAREST PULL BOX AND COILED FOR FUTURE USE.
- 5. GRIND ALL EXISTING BOLTS AND ANCHORS FLUSH WITH SIDEWALK.
- EXISTING INFRASTRUCTURE LOCATED BEHIND AND ADJACENT TO THE EXISTING BUS PLATFORM, INCLUDING IRRIGATION AND UTILITY PULL BOXES, SHALL BE PROTECTED IN PLACE. ANY DAMAGE TO THESE ITEMS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- ITEMS INDICATED TO BE RELOCATED SHALL BE RELOCATED TO NEW RAPID BUS STOPS TO BE CONSTRUCTED ON NORTH CANYONS PARKWAY. SEE CD SHEETS.



	SAL	VAGE PLAN	
WEST JACK		BOULEVARD	 EASTBOUN

SALVAGE PLANS -

LIVERMORE OUTLETS

— — · —	 R VALLEY TRANS KWAY BUS STO	SIT AUTHORITY P IMPROVEMENTS

PROFESSIONAL POLICE OF CALIFORNIA	Kimley >>> Horr © KIMLEY-HORN AND ASSOCIATES, INC. 4637 CHABOT DR, STE 300 PLEASANTON, CA 94588 PHONE: 925-398-4840 WWW.KIMLEY-HORN.COM

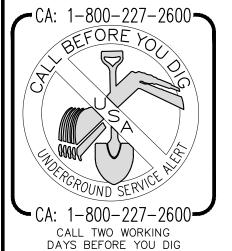
DRAWN:

CHECKED:

CALIFORNIA TRAFFIC ENGINEER:

DEPUTY DIRECTOR:

	APPROVED:	DATE: 7/24/2017	SHEE	
	CHERI_SHEETS	SCALE: 1"=10'		
CITY ENGINEER RCE #38751		FILE NAME: DM-02	4 of 2	



REV. DATE DESCRIPTION

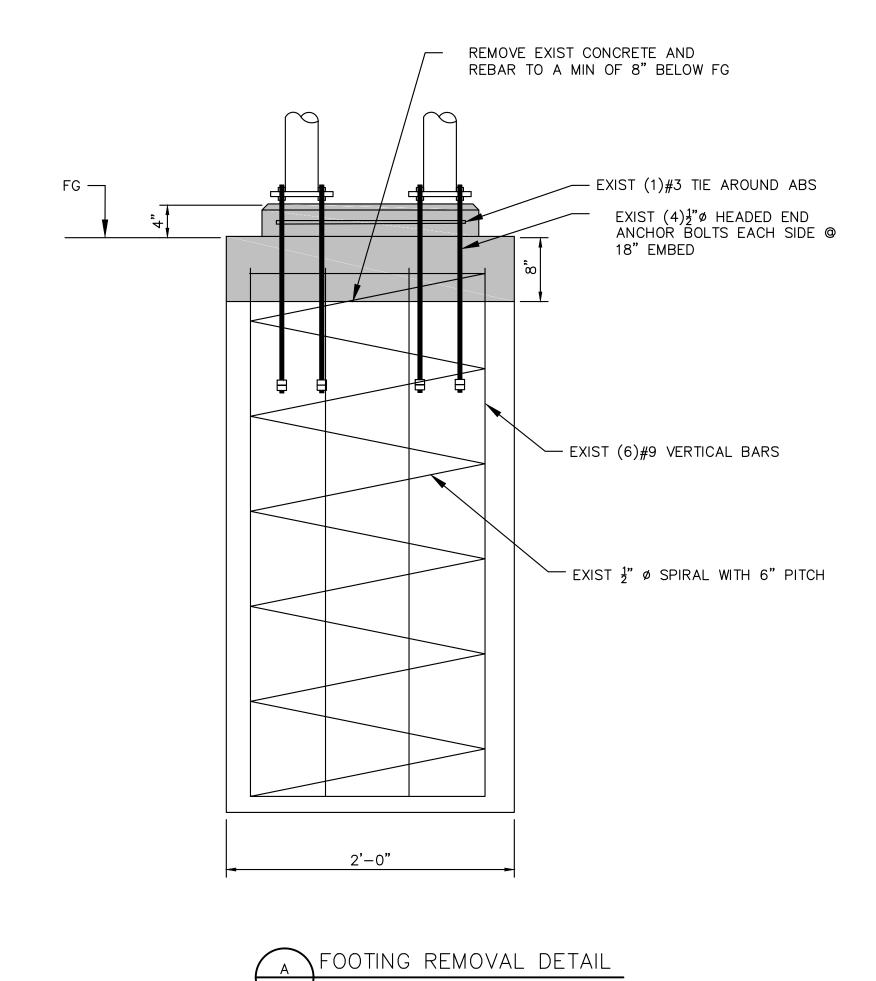
LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY

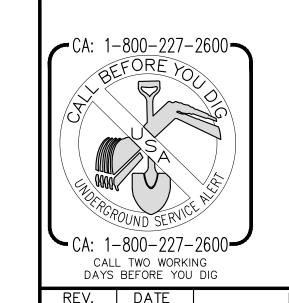
1362 Rutan Court, Suite 100, Livermore, CA. 94551

LIVERMORE

CONFORMED SET -5/3/2017

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LIVERMORE AMADOR
VALLEY TRANSIT AUTHORITY

1362 Rutan Court, Suite 100, Livermore, CA. 94551

LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS

LIVERMORE

DRAWN:

CHECKED:

DEPUTY DIRECTOR:

CALIFORNIA TRAFFIC ENGINEER:

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DATE: 7/24/2017

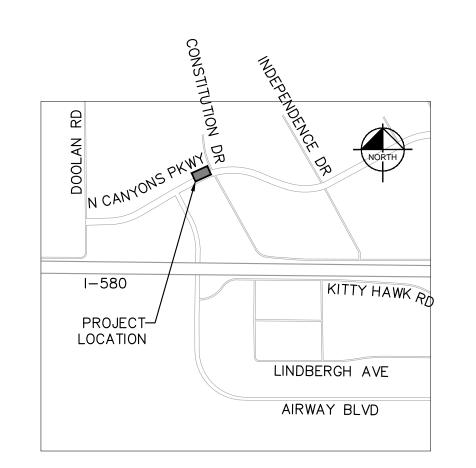
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CITY ENGINEER
RCE #38751

FILE NAME: DM-03

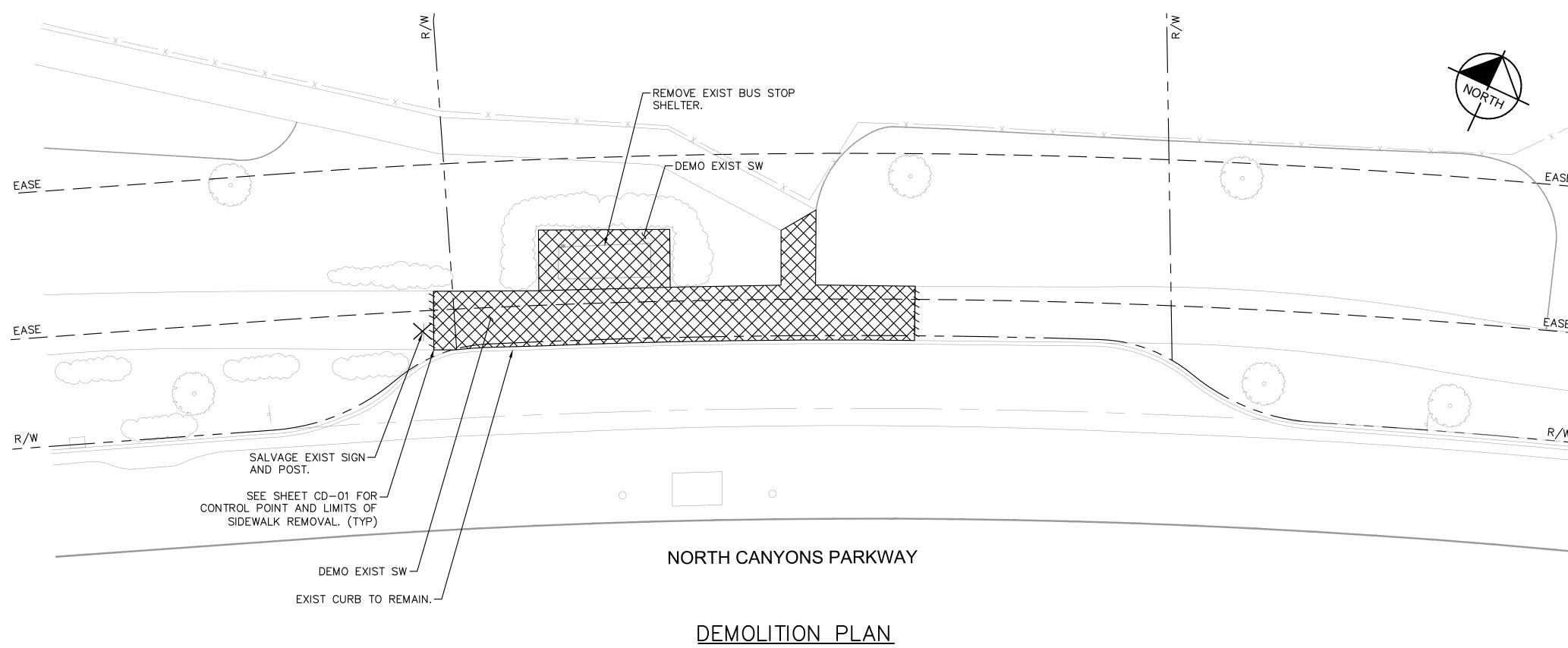
SHEET

5 of 20

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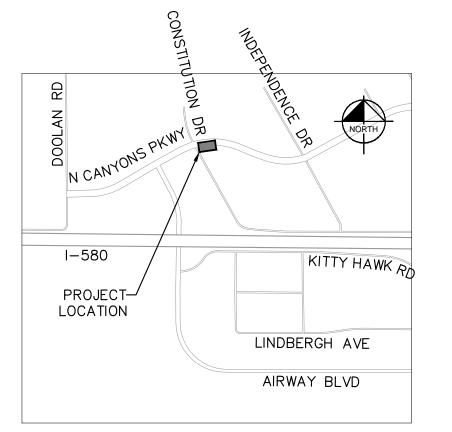


LOCATION MAP NOT TO SCALE



<u>DEMOLITION PLAN</u>

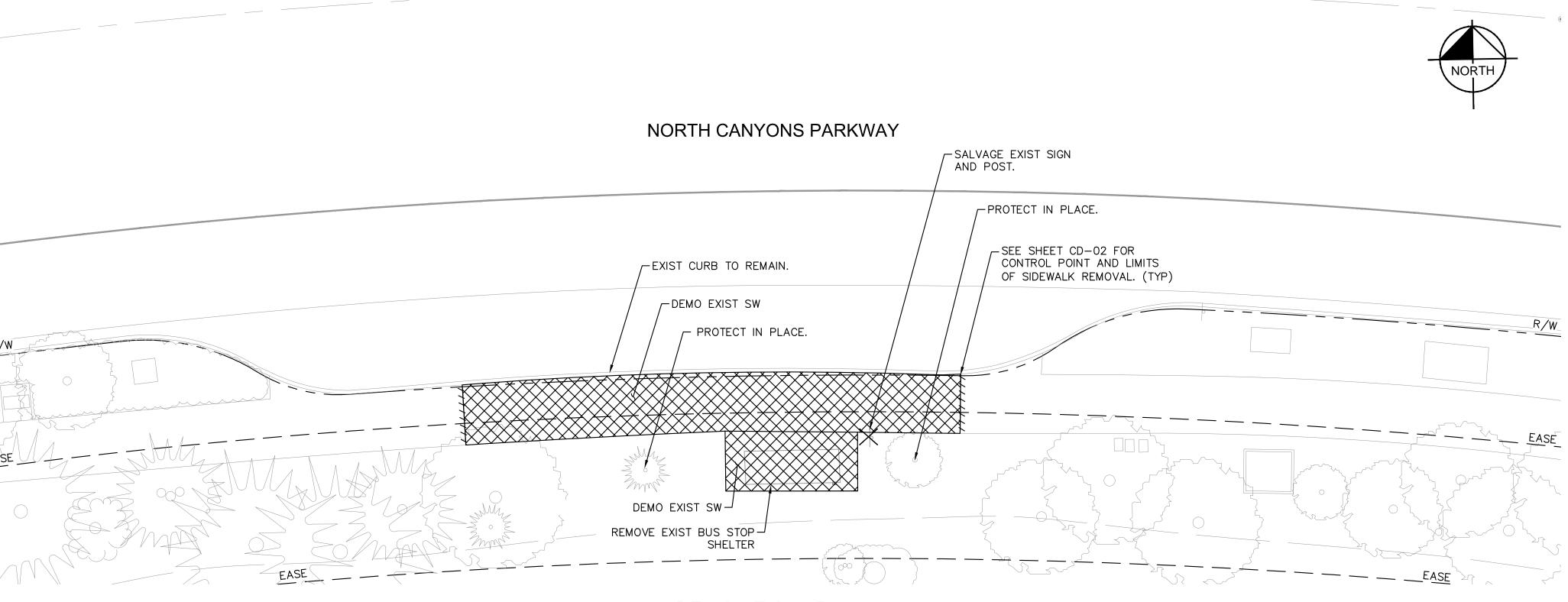
NORTH CANYONS PARKWAY AND CONSTITUTION DRIVE — WESTBOUND



LOCATION MAP

NOT TO SCALE

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<u>DEMOLITION PLAN</u>						
NORTH CANYONS	PARKWAY A	AND CO	<u>NOITUTION</u>	DRIVE -	EASTBOUND	

CA: 1-800-227-2600

CALL TWO WORKING
DAYS BEFORE YOU DIG REV. DATE DESCRIPTION

CA: 1-800-227-2600-

LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY 1362 Rutan Court, Suite 100, Livermore, CA. 94551

LIVERMORE

LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS

DEMOLITION PLANS — CONSTITUTION DRIVE CALIFORNIA

DRAWN:	PROFESSIONAL PU
CHECKED:	
DEPUTY DIRECTOR:	66697
TRAFFIC ENGINEER:	TOF CALIFORNIA

APPROVED: CHERI SHEETS CITY ENGINEER RCE #38751	DATE:	7/24/2017
	SCALE:	1"=10'
	FILE NAMI	E: DM-04

SHEET 6 of 20

AMMENITY INVENTORY

QUANTITY

AMMENITY INVENTORY

QUANTITY

ACTION

DISPOSE

SALVAGE

DESCRIPTION

BUS STOP SHELTER

SIGN + POST

ACTION

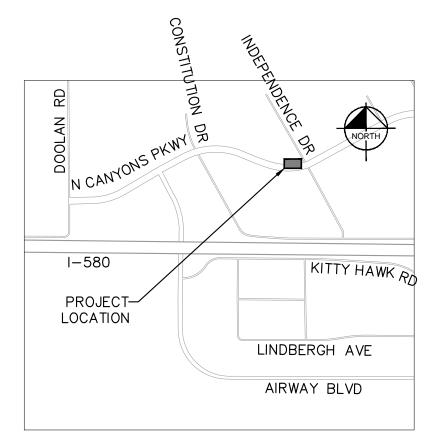
DISPOSE

SALVAGE

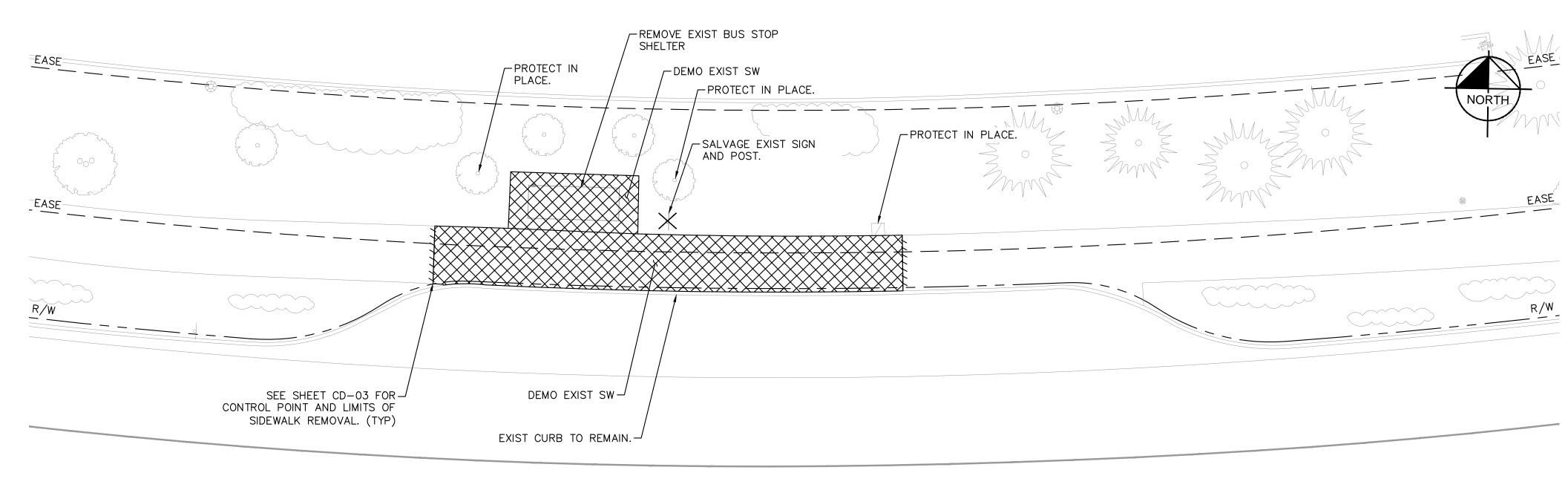
DESCRIPTION

BUS STOP SHELTER

SIGN + POST



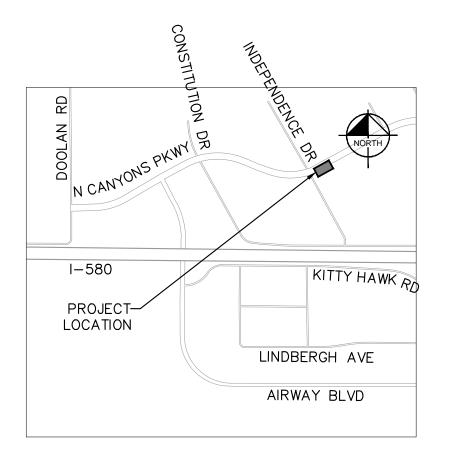






NORTH CANYONS PARKWAY

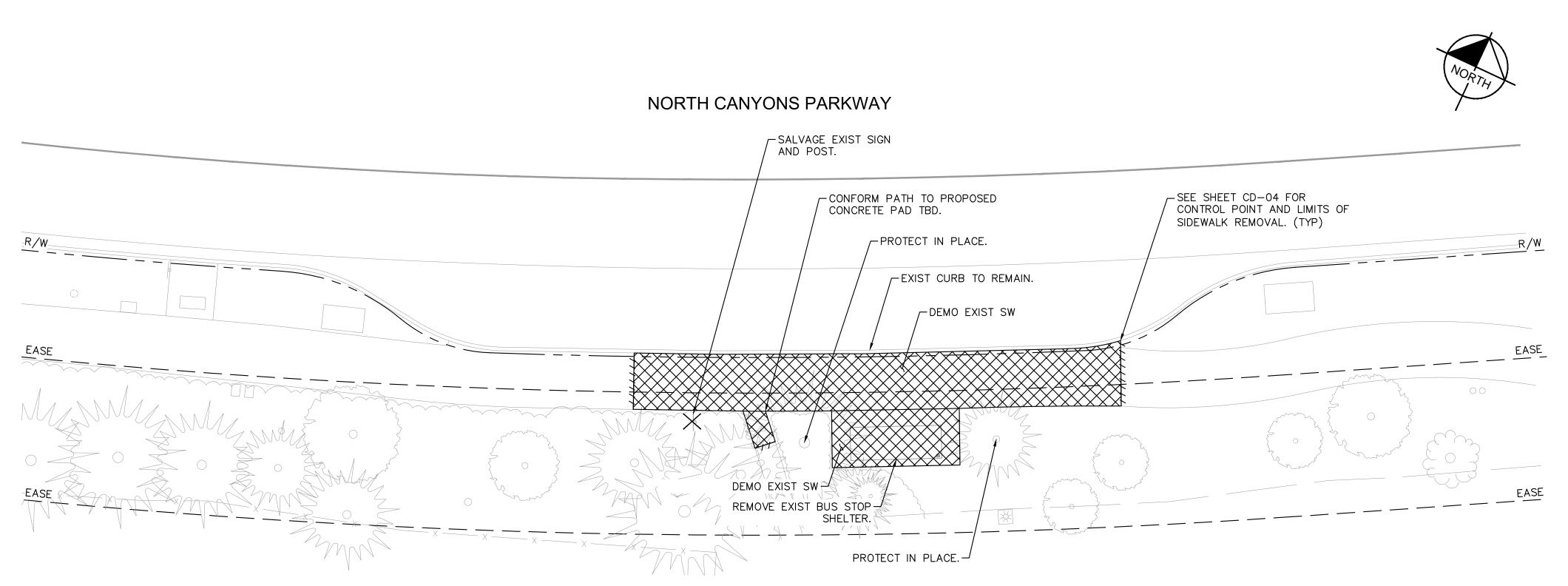
<u>DEMOLITION PLAN</u> NORTH CANYONS PARKWAY AND INDEPENDENCE DRIVE — WESTBOUND



LOCATION MAP NOT TO SCALE

<u>NOTES</u>

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AMMENITY INVENTORY			
DESCRIPTION	QUANTITY	ACTION	
BUS STOP SHELTER	1	DISPOSE	
SIGN + POST	1	SALVAGE	

<u>DEMOLITION PLAN</u> NORTH CANYONS PARKWAY AND INDEPENDENCE DRIVE — EASTBOUND

CA: 1-800-227-2600

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LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS

DEMOLITION PLANS — INDEPENDENCE DRIVE LIVERMORE

DRAWN:	PROFESS (ON E. P.U.S.	
CHECKED:	REGISTAL STATES	
DEPUTY DIRECTOR:	# 56697 *	
TRAFFIC FNGINFFR:	OF CALIFORNIA	

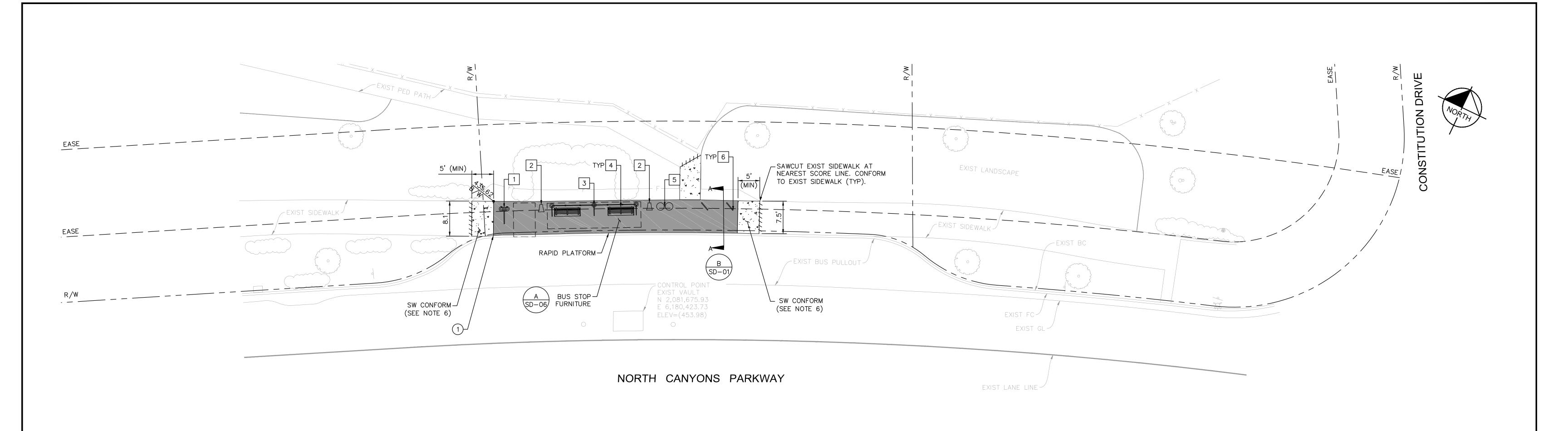
CALIFORNIA

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APPROVED:	DATE: 7/24/2017	SHEET
CHERI SHEETS	SCALE: 1"=10'	
CITY ENGINEER RCE #38751	FILE NAME: DM-05	7 of 20

of 20

CA: 1−800−227−2600**-**



- 1. DIMENSIONS SHOWN MAY NOT ADD DUE TO ROUNDING. EXACT LOCATIONS MAY BE FIELD ADJUSTED.
- 2. ALL UTILITIES AND FEATURES ADJACENT TO THE SHOWN LIMITS OF PROPOSED CONSTRUCTION SHALL BE PRESERVED AND PROTECTED IN PLACE.
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- 6. TRANSITION FROM EXIST SIDEWALK WIDTH TO 7.5' PLATFORM WIDTH WITHIN
- REGARDING RESTORATION OF

STANDARD STOP

TYPE	DESCRIPTION	QUANTITY
1	INSTALL RAPID BUS STOP FLAG POLE AND SIGNAGE	1
2	INSTALL RAPID BUS STOP PEDESTRIAN LIGHTING POLE	2
3	INSTALL RAPID BUS STOP STANDARD BUS SHELTER WITH REAL—TIME INFORMATION SIGN	1
4	INSTALL RAPID BUS STOP BENCH	2
5	INSTALL RAPID BUS STOP TRASH/RECYCLING RECEPTACLE SET	1
6	INSTALL RAPID BUS STOP BICYCLE PARKING RACK	2

PLATFORM CONTROL POINT

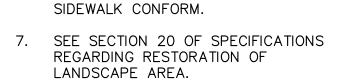
POINT NO.	NORTHING	EASTING	EXIST TC ELEV	PROPOSED B/W ELEV OFFSET FROM BC
1)	2,081,678.12	6,180,387.88	(435.50)	(435.62)

LIVERMORE

<u>LEGEND</u>

4" PCC SIDEWALK





CA: 1-800-227-2600-CA: 1-800-227-2600 CALL TWO WORKING DAYS BEFORE YOU DIG

REV. DATE DESCRIPTION

LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY

1362 Rutan Court, Suite 100, Livermore, CA. 94551

LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS

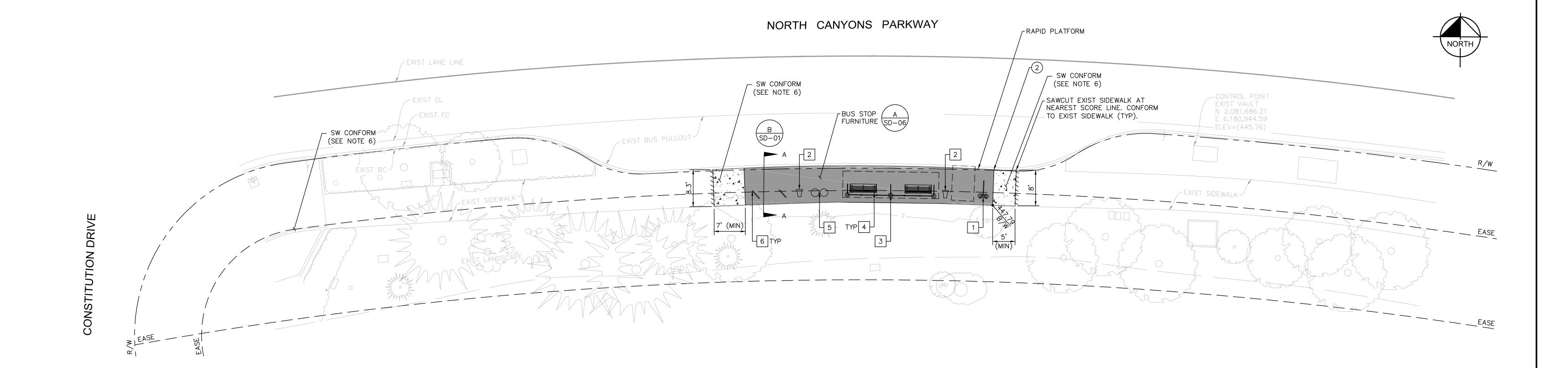
> NORTH CANYONS PARKWAY AND CONSTITUTION DRIVE - WESTBOUND

DRAWN: CHECKED: DEPUTY DIRECTOR: CALIFORNIA TRAFFIC ENGINEER:

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DATE: 7/24/2017 SCALE: 1"=10' CHERI SHEETS CITY ENGINEER 8 of 20 RCE #38751 FILE NAME: CD-01

SHEET



- 1. DIMENSIONS SHOWN MAY NOT ADD DUE TO ROUNDING. EXACT LOCATIONS MAY BE FIELD ADJUSTED.
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- 6. TRANSITION FROM EXIST SIDEWALK WIDTH TO 7.5' PLATFORM WIDTH WITHIN
- 7. SEE SECTION 20 OF SPECIFICATIONS REGARDING RESTORATION OF LANDSCAPE AREA.

STANDARD STOP

TYPE	DESCRIPTION	QUANTITY
1	INSTALL RAPID BUS STOP FLAG POLE AND SIGNAGE	1
2	INSTALL RAPID BUS STOP PEDESTRIAN LIGHTING POLE	2
3	INSTALL RAPID BUS STOP STANDARD BUS SHELTER WITH REAL—TIME INFORMATION SIGN	1
4	INSTALL RAPID BUS STOP BENCH	2
5	INSTALL RAPID BUS STOP TRASH/RECYCLING RECEPTACLE SET	1
6	INSTALL RAPID BUS STOP BICYCLE PARKING RACK	2

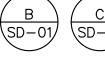
PLATFORM CONTROL POINT

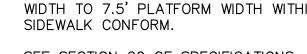
DOINT NO	NODTHINO	FACTINO	EVICT TO ELEV	PROPOSED B/W ELEV
POINT NO.	NORTHING	EASTING	EXIST TC ELEV	OFFSET FROM BC
2	2,081,680.47	6,180,899.85	(447.67)	(447.79)

<u>LEGEND</u>

4" PCC SIDEWALK







CA: 1-800-227-2600-

CA: 1-800-227-2600

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LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY

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LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS

NORTH CANYONS PARKWAY AND LIVERMORE CONSTITUTION DRIVE - EASTBOUND

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DEPUTY DIRECTOR:	# 68897 *
TRAFFIC ENGINEER:	OF CALIFORN

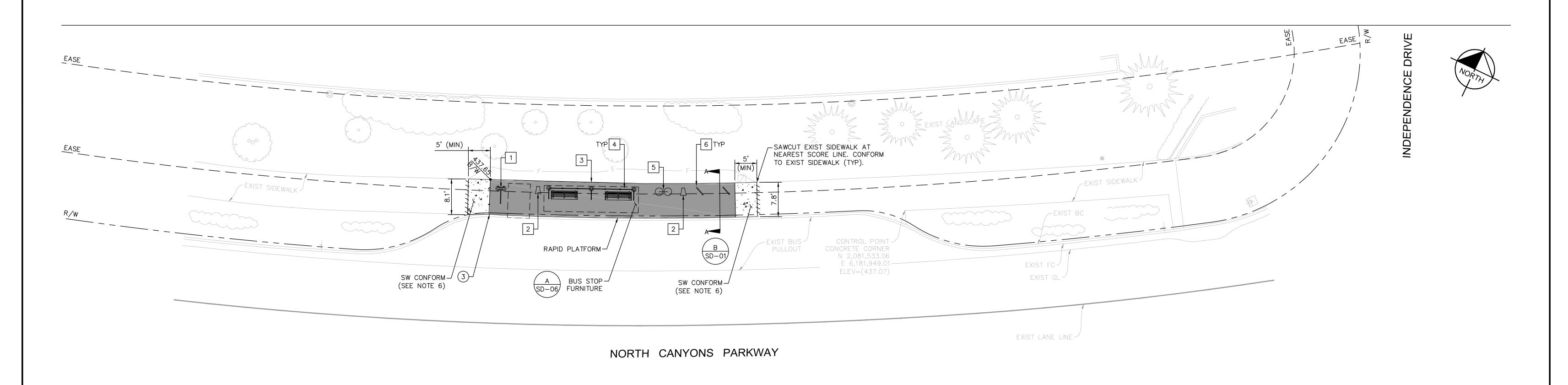
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APPROVED:	DATE: 7/24/2017
CHERI_SHEETS	SCALE: 1"=10'
CITY ENGINEER RCE #38751	FILE NAME: CD-02

SHEET

9 of 20



- 1. DIMENSIONS SHOWN MAY NOT ADD DUE TO ROUNDING. EXACT LOCATIONS MAY BE FIELD ADJUSTED.
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- 6. TRANSITION FROM EXIST SIDEWALK WIDTH TO 7.5' PLATFORM WIDTH WITHIN SIDEWALK CONFORM.
- 7. SEE SECTION 20 OF SPECIFICATIONS REGARDING RESTORATION OF LANDSCAPE AREA.

STANDARD STOP

TYPE	DESCRIPTION	QUANTITY
1	INSTALL RAPID BUS STOP FLAG POLE AND SIGNAGE	1
2	INSTALL RAPID BUS STOP PEDESTRIAN LIGHTING POLE	2
3	INSTALL RAPID BUS STOP STANDARD BUS SHELTER WITH REAL—TIME INFORMATION SIGN	1
4	INSTALL RAPID BUS STOP BENCH	2
5	INSTALL RAPID BUS STOP TRASH/RECYCLING RECEPTACLE SET	1
6	INSTALL RAPID BUS STOP BICYCLE PARKING RACK	2

PLATFORM CONTROL POINT

POINT NO.	NORTHING	EASTING	EXIST TC ELEV	PROPOSED B/W ELEV OFFSET FROM BC
3	2,081,531.14	6,181,857.87	(437.53)	(437.65)

LIVERMORE

<u>LEGEND</u>



4" PCC SIDEWALK











REV. DATE DESCRIPTION

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LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS

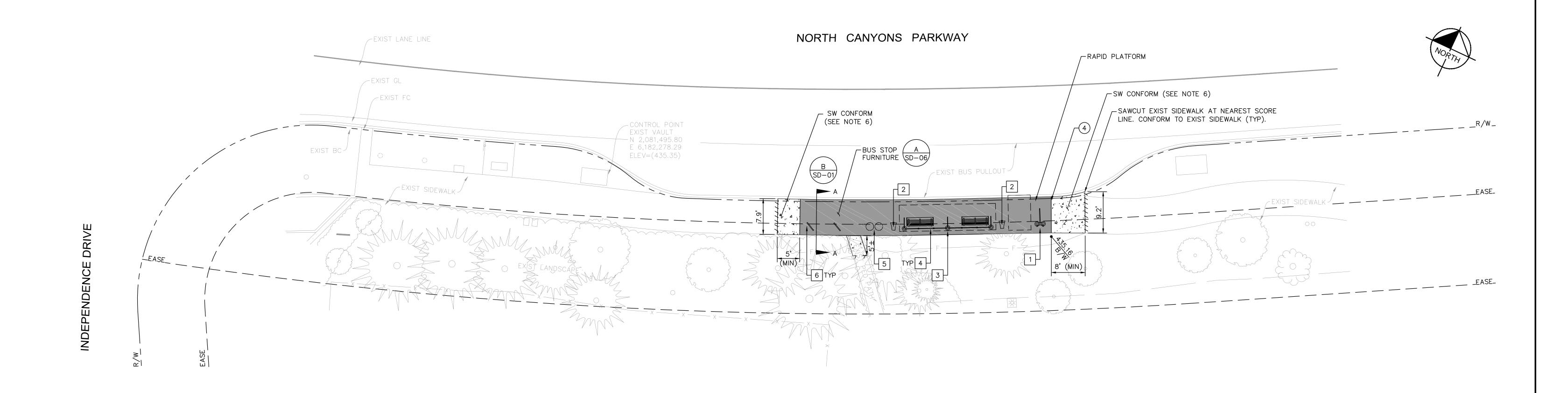
> NORTH CANYONS PARKWAY AND INDEPENDENCE DRIVE - WESTBOUND

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D ASSOCIATES, INC. DR, STE 300 I, CA 94588 -398-4840 -HORN.COM	CH CIT RC

APPROVED:	DATE: 7/24/2017	SHEET
CHERI_SHEETS	— SCALE: 1"=10'	
CITY ENGINEER RCE #38751	FILE NAME: CD-03	10 of 20



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- 7. SEE SECTION 20 OF SPECIFICATIONS REGARDING RESTORATION OF LANDSCAPE AREA.

STANDARD STOP

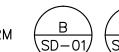
TYPE	DESCRIPTION	QUANTITY
1	INSTALL RAPID BUS STOP FLAG POLE AND SIGNAGE	1
2	INSTALL RAPID BUS STOP PEDESTRIAN LIGHTING POLE	2
3	INSTALL RAPID BUS STOP STANDARD BUS SHELTER WITH REAL—TIME INFORMATION SIGN	1
4	INSTALL RAPID BUS STOP BENCH	2
5	INSTALL RAPID BUS STOP TRASH/RECYCLING RECEPTACLE SET	1
6	INSTALL RAPID BUS STOP BICYCLE PARKING RACK	2

PLATFORM CONTROL POINT

POINT NO.	NORTHING	EASTING	EX TC ELEV	PROPOSED B/W ELEV OFFSET FROM BC
4	2,081,532.63	6,182,370.20	(435.04)	(435.16)

<u>LEGEND</u>

4" PCC SIDEWALK





REV. DATE DESCRIPTION

LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY 1362 Rutan Court, Suite 100, Livermore, CA. 94551

LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS

NORTH CANYONS PARKWAY AND LIVERMORE INDEPENDENCE DRIVE - EASTBOUND

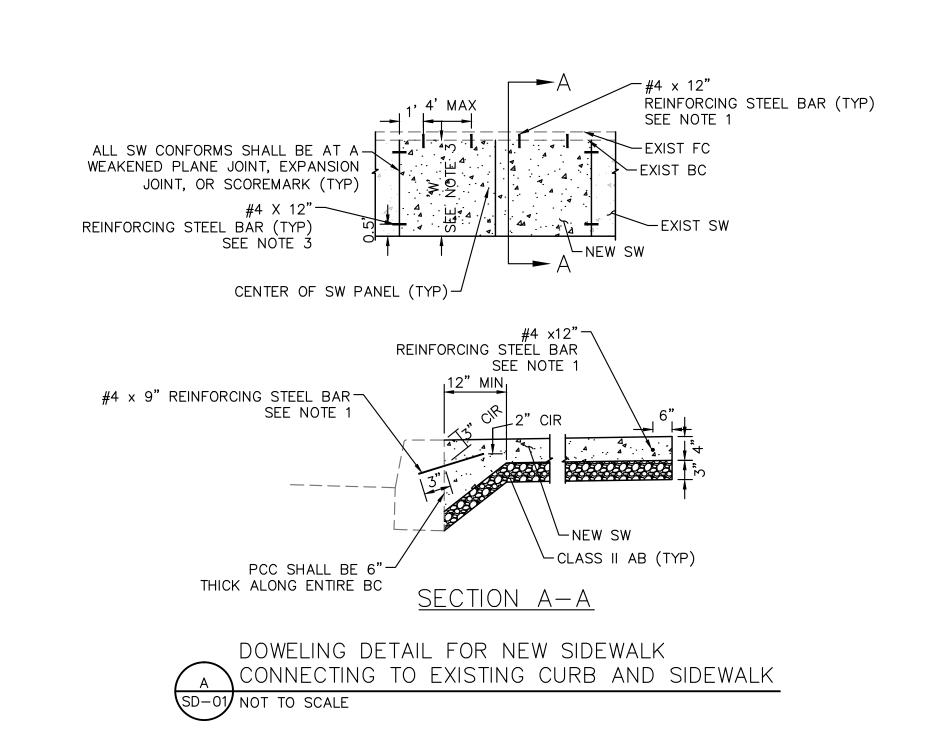
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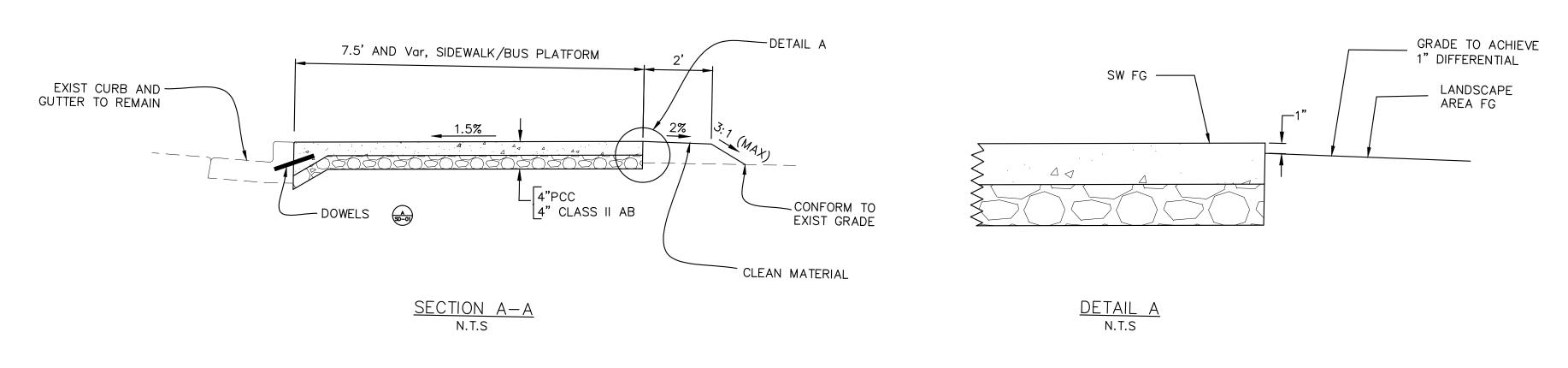
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PLEASANTON, CA 94588
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DATE: 7/24/2017 SCALE: 1"=10' CHERI SHEETS CITY ENGINEER 11 of 20 RCE #38751 FILE NAME: CD-04

SHEET





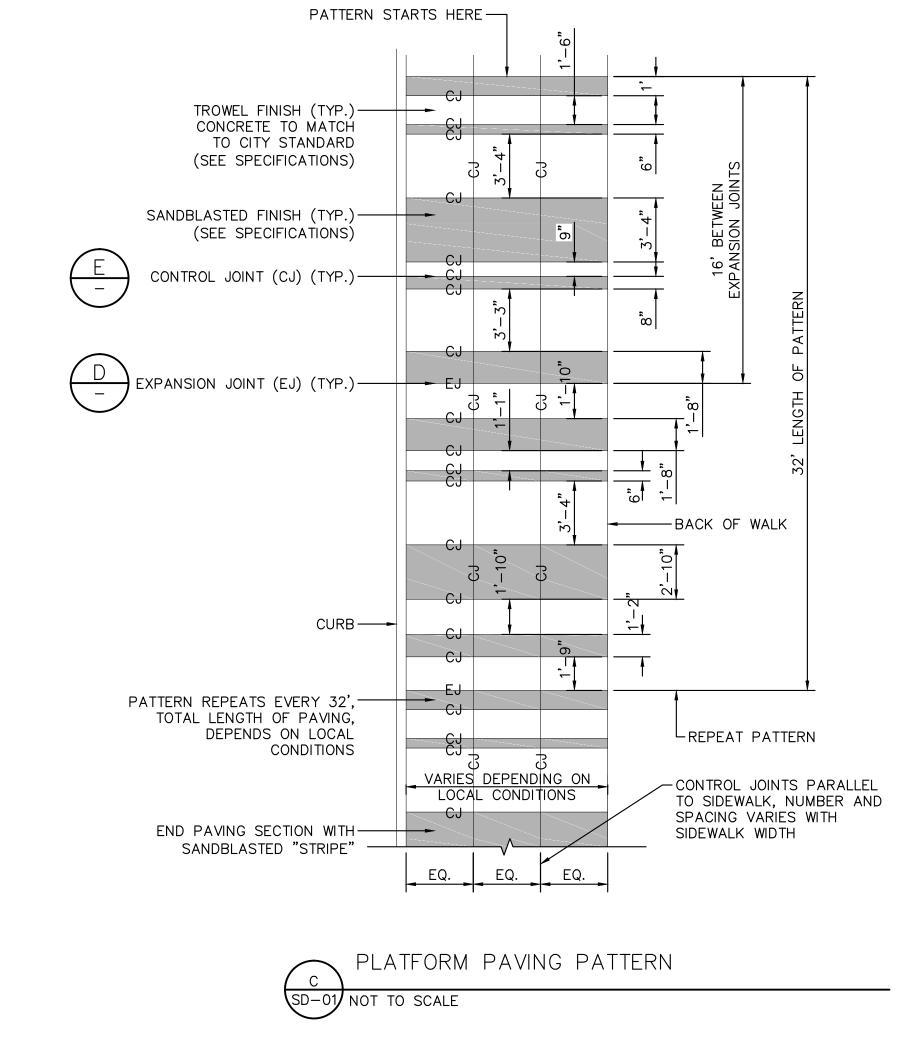


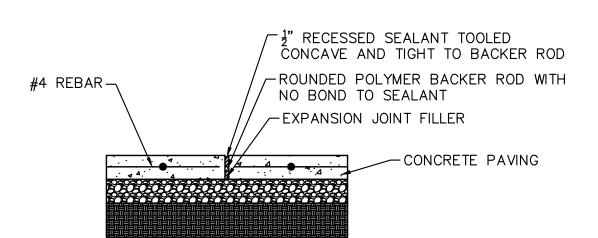
LIVERMORE

GENERAL NOTES (THIS SHEET ONLY)

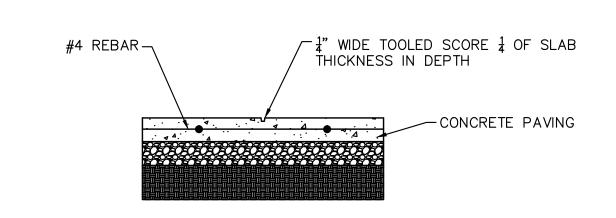
- 1. DOWELS SHALL BE PLACED IN A ¾"
 DIAMETER DRILLED HOLE FILLED WITH
 1:1 SAND CEMENT GROUT.
- 2. IF W>5' ADD ADDITIONAL DOWELING, 4' MAX SPACING BETWEEN DOWELS.



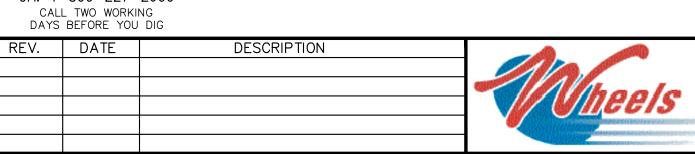












LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY 1362 Rutan Court, Suite 100, Livermore, CA. 94551

LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS

DOWELLING DETAILS

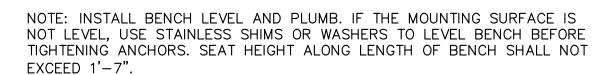
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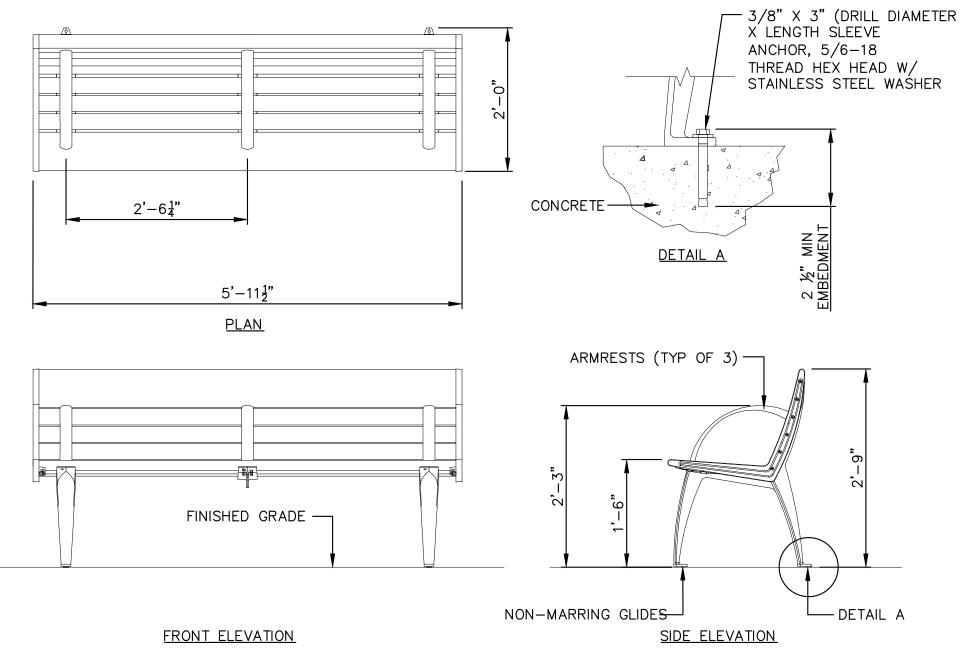
SHEET DATE: 7/24/2017 SCALE: N/A CHERI SHEETS CITY ENGINEER 12 of 20 RCE #38751 FILE NAME: SD-01

CONFORMED SET -5/3/2017

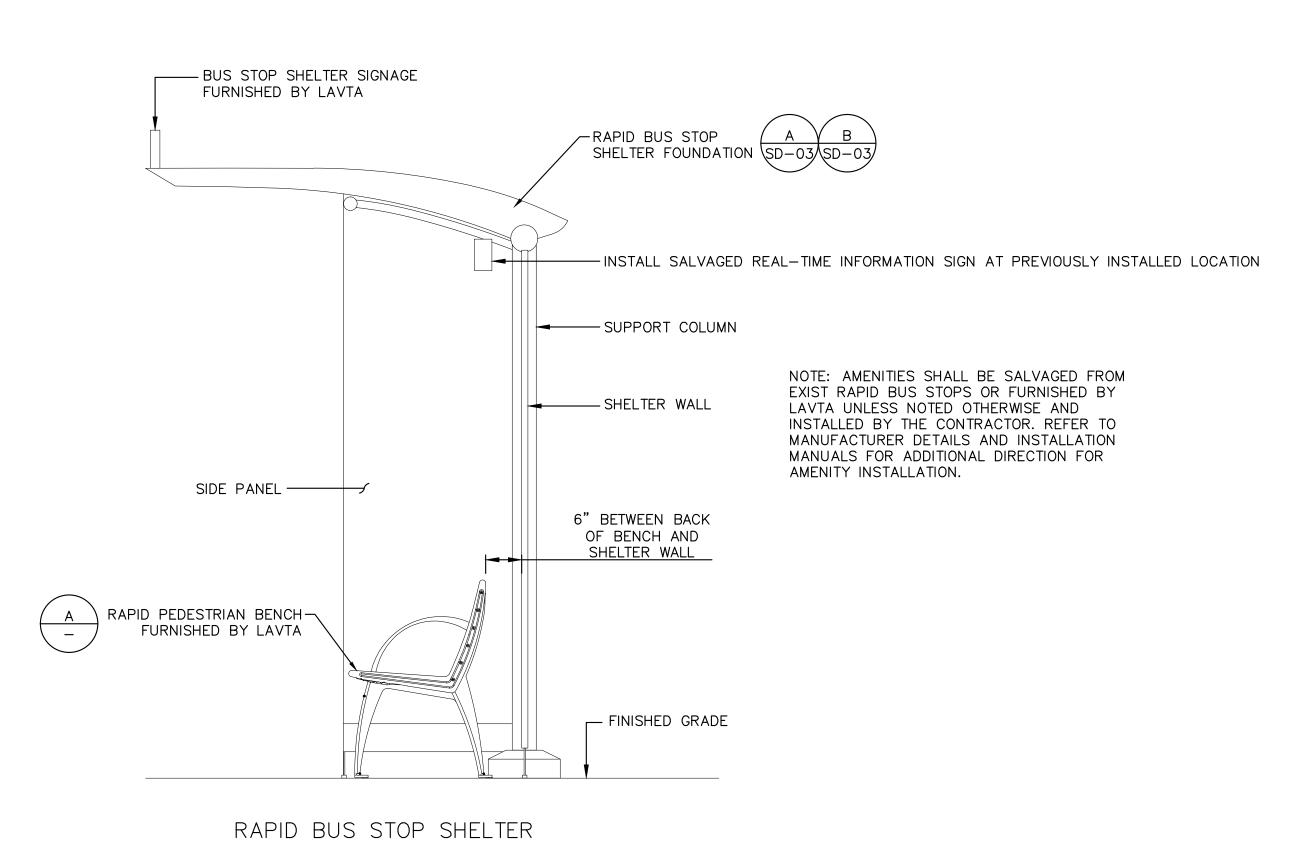
CA: 1-800-227-2600

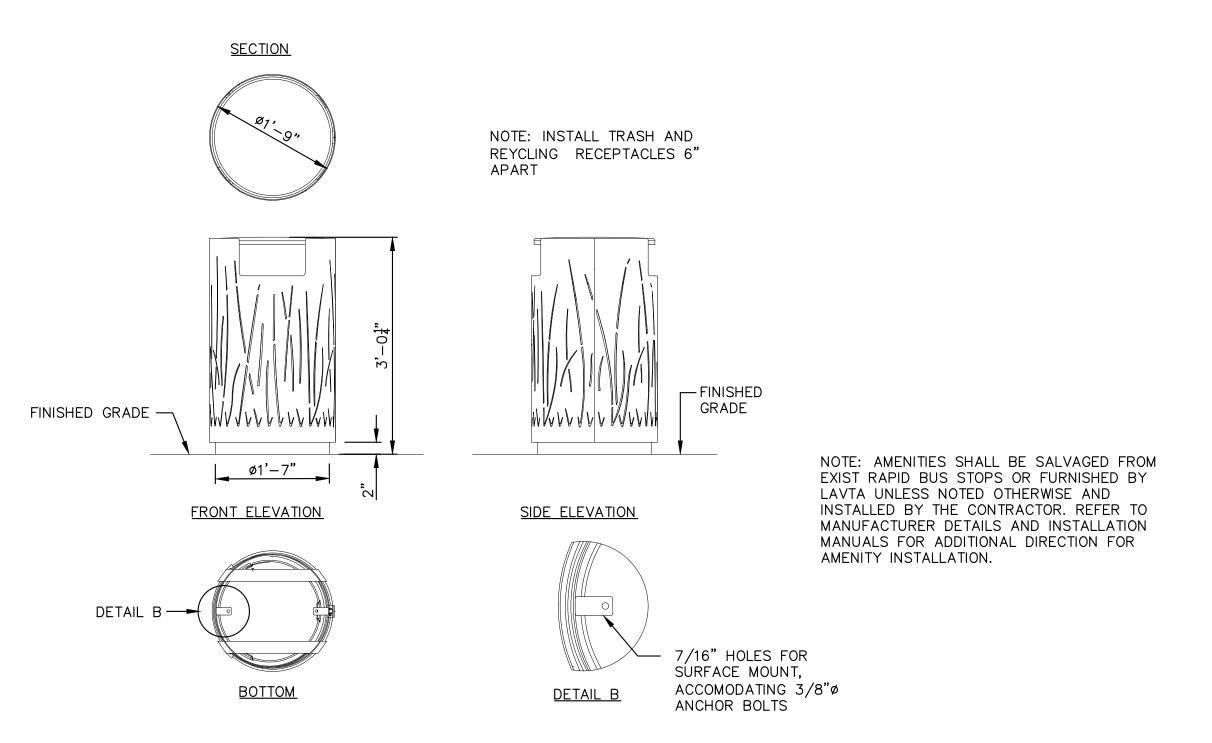
CA: 1-800-227-2600





RAPID PEDESTRIAN BENCH INSTALLATION DETAIL

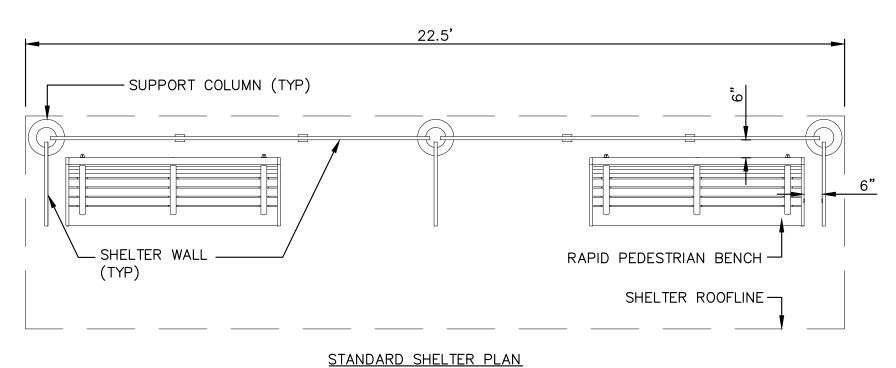




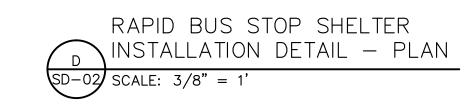
RAPID TRASH AND RECYCLING RECEPTACLES

INSTALLATION DETAIL (SET OF TWO RECEPTACLES)

SD-02 SCALE: 3/4" = 1'



NOTE: SEE BUS SHELTER SHOP DRAWINGS FOR SUPPORT COLUMN SPACING AND OTHER INSTALLATION DETAILS.





REV. DATE DESCRIPTION

| Control of the control of

LIVERMORE AMADOR
VALLEY TRANSIT AUTHORITY

1362 Rutan Court, Suite 100, Livermore, CA. 94551

INSTALLATION DETAIL - SECTION

SD-02 SCALE: 3/4" = 1'

LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS

RAPID BUS STOP
FURNITURE DETAILS

CALIFORNIA

DRAWN:	PROFESSION E PUZZE
CHECKED:	A STATE OF THE STA
DEPUTY DIRECTOR:	66697 ×
TRAFFIC ENGINEER:	OF CALIFORNIA

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4637 CHABOT DR, STE 300
PLEASANTON, CA 94588
PHONE: 925-398-4840

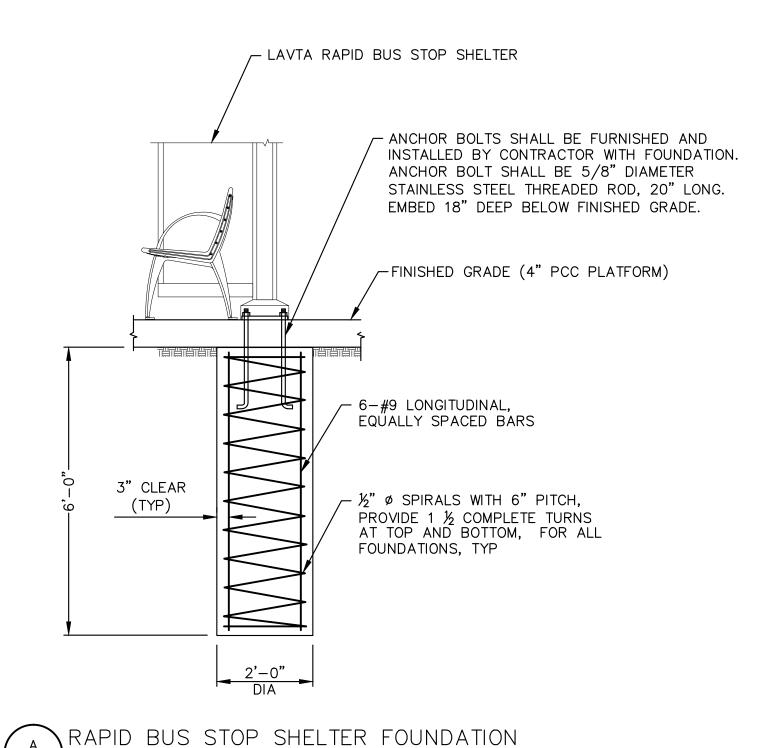
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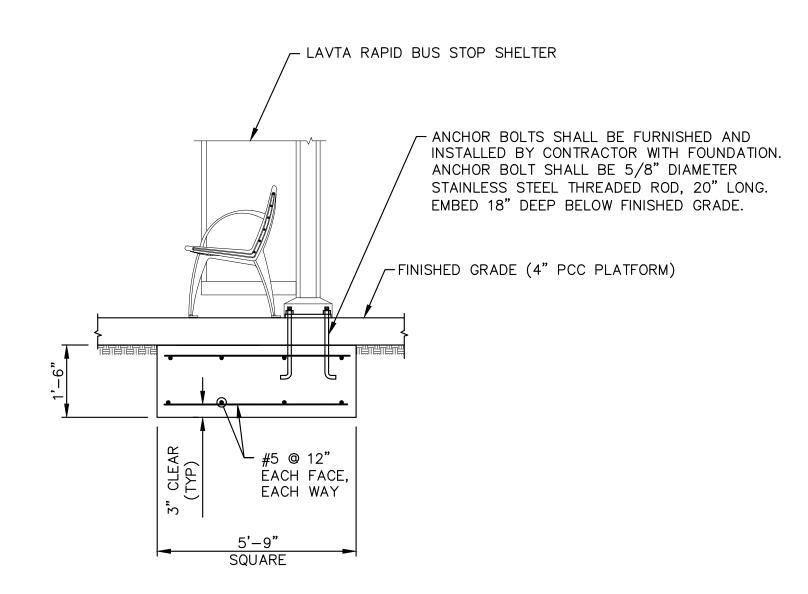
DATE: 7/24/2017 SHEET

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CITY ENGINEER
RCE #38751

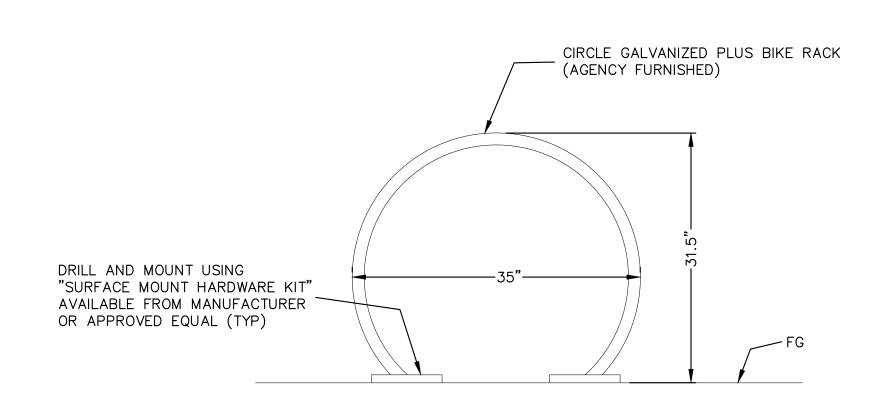
FILE NAME: SD-02

13 OF 20





ALTERNATE SPREAD FOOTING RAPID BUS STOP SHELTER FOUNDATION SD-03/NOT TO SCALE



SD-03/NOT TO SCALE



INSPECTION OF	CONCRETE CONSTRUCTION	(2016 CBC TA	ABLE 1704.4)
INSPECTION ITEMS	INSPECTION TASK	FREQUENCY OF INSPECTION	COMMENTS
STRUCTURAL CAST—IN—PLACE CONCRETE	REINFORCING STEEL, AND PLACEMENT	PERIODIC	(1) (3) (4)
	VERIFICATION OF MIX DESIGN	PERIODIC	(1) (3)
	SAMPLES TAKEN FOR STRENGTH, SLUMP, AIR CONTENT, AND CONCRETE TEMPERATURE	CONTINUOUS	(2) (3)
	INSPECTION OF CONCRETE PLACEMENT	CONTINUOUS	(2) (3)
	MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	PERIODIC	(1) (3)
	FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS	PERIODIC	(1) (3)
	INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE	CONTINUOUS	(2) (3)

INSPECTION OF	SOILS (2016 CBC TABLE	1704.7)	
INSPECTION ITEMS	INSPECTION TASK	FREQUENCY OF INSPECTION	COMMENTS
SOIL PREPARATIONS AND EXCAVATIONS			(3) (5)

STRUCTURAL DESIGN CRITERIA

BUILDING CODE: 2016 CALIFORNIA BUILDING CODE (2016 CBC).

CONCRETE DESIGN CODE: 2016 CBC AND ACI 318-05.

CAST-IN-PLACE CONCRETE COMPRESSIVE STRENGTH: 3600 PSI AT 28 DAYS, MINIMUM.

WIND PRESSURES: 2016 CBC BASIC WIND SPEED = 85 MPH, WIND SPEED USED FOR FOUNDATION DESIGN = 100 MPH EXPOSURE B, IMPORTANCE FACTOR = 1.00

SEISMIC DESIGN: _ 2016 CBC SITE CLASS D SPECTRAL RESPONSE ACCELERATION Ss = 1.63 SPECTRAL RESPONSE ACCELERATION S1 = 0.60 SITE COEFFICIENT Fa = 1.0

SITE COEFFICIENT Fv = 1.5

SOIL PARAMETERS: 2016 CBC, TABLE 1804.2, CLASS OF MATERIALS 4 OR 5.

SITE AND GROUND PREPARATION IN ACCORDANCE WITH GEOTECHNICAL REPORT BY BSK ASSOCIATE, JOB NO. G08-016-11P, JANUARY 22, 2009. BSK GEOTECHNICAL REPORT WAS PREPARED IN CONJUNCTION WITH LAVTA'S ROUTE 10 RAPID BUS PROGRAM DEPLOYMENT CITY OF LIVERMORE BUS STOP IMPROVEMENTS (LAVTA CONTRACT 002) ISSUED FOR BID IN SEPTEMBER 2009.

SPECIAL INSPECTIONS ARE REQUIRED. SEE SPECIAL INSPECTIONS REQUIREMENTS, THIS SHEET.

CONCRETE NOTES

FOUNDATIONS SHALL NOT BE LOADED UNTIL CONCRETE HAS ATTAINED FULL 28-DAY COMPRESSIVE STRENGTH (3600 PSI).

REINFORCING STEEL NOTES

CONFORM WITH ACI 318 AND ACI 315 STANDARD FOR DETAILS AND DETAILING OF CONCRETE REINFORCEMENT. REINFORCING STEEL SHALL BE GRADE 60 (ASTM 615) Fy=60 ksi.

CONSTRUCTION NOTES

CONTRACTOR SHALL COORDINATE SUPPORT COLUMN SPACING AND ANCHOR BOLT PLACEMENT WITH STRUCTURE MANUFACTURER PRIOR TO PLACEMENT OF CONCRETE IN FOUNDATION. ANCHOR BOLTS SHALL BE CAST IN WITH FOUNDATION CONCRETE AND NOT AFTER CONCRETE HAS SET.

THE CONTRACTOR SHALL LOCATE EACH FOUNDATION AND LOCATE ALL UTILITIES IN THE VICINITY BASED ON DEPTH AND DIAMETER REQUIRED FOR THE FOUNDATION.

IN CASE OF UTILITY CONFLICT WITH DEEP FOUNDATIONS, SPREAD FOOTING ALTERNATIVE SHOWN (SEE DETAIL B) MAY BE USED UPON REVIEW AND APPROVAL OF THE ENGINEER.

THE CONTRACTOR SHALL SUBMIT EACH INSTANCE OF MODIFICATION FROM DEEP FOUNDATION TO SPREAD FOOTING AND EACH LOCATION SHALL NOT BE DEEMED AS A GENERAL ACCEPTANCE OF THE SPREAD FOOTING.

COMMENTS

- 1. PERIODIC SPECIAL INSPECTION: THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF WORK. (2016 CBC 1702).
- 2. CONTINUOUS SPECIAL INSPECTION: THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. (2016 CBC 1702).
- 3. ITEMS NOT SHOWN MAY REQUIRE CONTINUOUS OR PERIODIC SPECIAL STRUCTURAL INSPECTION AT THE DISCRETION OF THE PROGRAM/PROJECT MANAGER. ITEMS LISTED MAY REQUIRE ALTERNATE FREQUENCIES OF INSPECTION OTHER THAN SHOWN UNDER DIRECTION OF THE CITY ENGINEER.
- 4. WELDING OF REINFORCING STEEL NOT ACCEPTABLE UNLESS DIRECTED BY THE CITY ENGINEER OF RECORD.
- 5. SOILS INSPECTION REQUIREMENT SHALL CONFORM WITH PROJECT SOILS ENGINEER/CONSULANT AS OUTLINED IN SOILS REPORT AND PROJECT SPECIFICATIONS.

SPECIAL INSPECTIONS

- 1. SPECIAL INSPECTION IS REQUIRED OF MATERIALS, INSTALLATION, FABRICATION, ERECTION OR PLACEMENT OF COMPONENTS AND CONNECTIONS REQUIRING SPECIAL EXPERTISE TO ENSURE COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS.
- 2. CONTRACTOR SHALL PROVIDE AN INDEPENDENT SPECIAL INSPECTION FIRM ACCEPTABLE TO LAVTA AND THE CITY OF LIVERMORE FOR ALL INSPECTIONS REQUIRED.
- 3. THE ITEMS SHOWN IN TABLES 1704.4 AND 1704.7 OF THE 2016 CBC REQUIRE SPECIAL INSPECTION.



REV.	DATE	DESCRIPTION	
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LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY 1362 Rutan Court, Suite 100, Livermore, CA. 94551

LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS

RAPID BUS STOP SHELTER LIVERMORE FOUNDATION DETAILS

Y	DRAWN:	PROFESSION
NTS	CHECKED:	
	DEPUTY DIRECTOR:	66697
CALIFORNIA	TRAFFIC ENGINEER:	OF CALLFORN

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	PHONE: 925-398-4840
	WWW.KIMLEY-HORN.COM

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APPROVED:	DATE: 7/24/2017	SHEET
CHERI_SHEETS	SCALE: N/A	
CITY ENGINEER RCE #38751	FILE NAME: SD-03	14 of 20

STRUCTURAL DESIGN CRITERIA

BUILDING CODE: 2016 CALIFORNIA BUILDING CODE (2016 CBC).

DEAD LOAD: SIGN CABINETS <= 15 PSF FRONT ELEVATION AREA

WIND LOAD: V=85 MPH (3 SECOND GUST),

EXPOSURE C (OPEN TERRAIN)

SNOW LOAD: N/A

STRUCTURAL STEEL

DESIGN AND FABRICATION ACCORDING TO AISC-ASD 13TH EDITION.

BOLTS: ASTM A325N (WITH HARDENED WASHERS)

ANCHOR RODS: ASTM F1554 GRADE 55

REINFORCING STEEL: ASTM 615 GRADE 60

FOUNDATION

DESIGN CRITERIA: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 6TH EDITION, 2013 (AASHTO SIGNS)

FOUNDATION CONCRETE SHALL HAVE MINIMUM COMPRESSIVE STRENGTH F'C=3600 PSI @ 28 DAYS. ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.

FOUNDATIONS SHALL NOT BE LOADED UNTIL CONCRETE HAS ATTAINED FULL 28-DAY COMPRESSIVE STRENGTH (3600 PSI).

EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3"X3" EXCEPT AS NOTED.

REINFORCEMENT BARS SHALL CONFORM TO THE DIMENSIONS SHOWN ON THIS DRAWING.

BARS SHALL NOT BE SPLICED EXCEPT AS PROVIDED ON THIS DRAWING OR AUTHORIZED BY THE ENGINEER. WHEN SPLICING IS APPROVED THE REINFORCEMENT BARS SHALL BE CLASS B LAP PER ACI 318-14.

FOR LOCATION AND DIRECTION OF ELECTRICAL CONDUIT WHERE APPLICABLE, SEE ELECTRICAL PLANS.

ALL ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GRADE 55 SPECIFICATIONS. THE UPPER 1'-0" AND LOWER" SHALL BE THREADED. THE ENTIRE LENGTH OF BOLT SHALL BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A153.

FOUNDATION DESIGN IS BASED ON AASHTO SIGNS ARTICLE 13.6 BROM'S APPROXIMATE PROCEDURE FOR COHESIONLESS MATERIAL. ANGLE OF INTERNAL FRICTION 24° AND UNIT WEIGHT OF SOIL = 120 PCF ALLOWABLE BEARING PRESSURE OF 1500 PSF (CBC 1806A.2 TABLE 1806A.2) AND SKIN FRICTION OF 250 PSF (CBC 1810A.3.3.1.4). CONTRACTOR TO VERIFY SOIL CONDITIONS BEFORE PLACEMENT OF FOUNDATION.

CONCRETE POURED AGAINST UNDISTURBED NATIVE SOILS.

SOIL ALLOWABLE LATERAL BEARING CAPACITY = 100 PSF/FT.

CONSTRUCTION NOTES

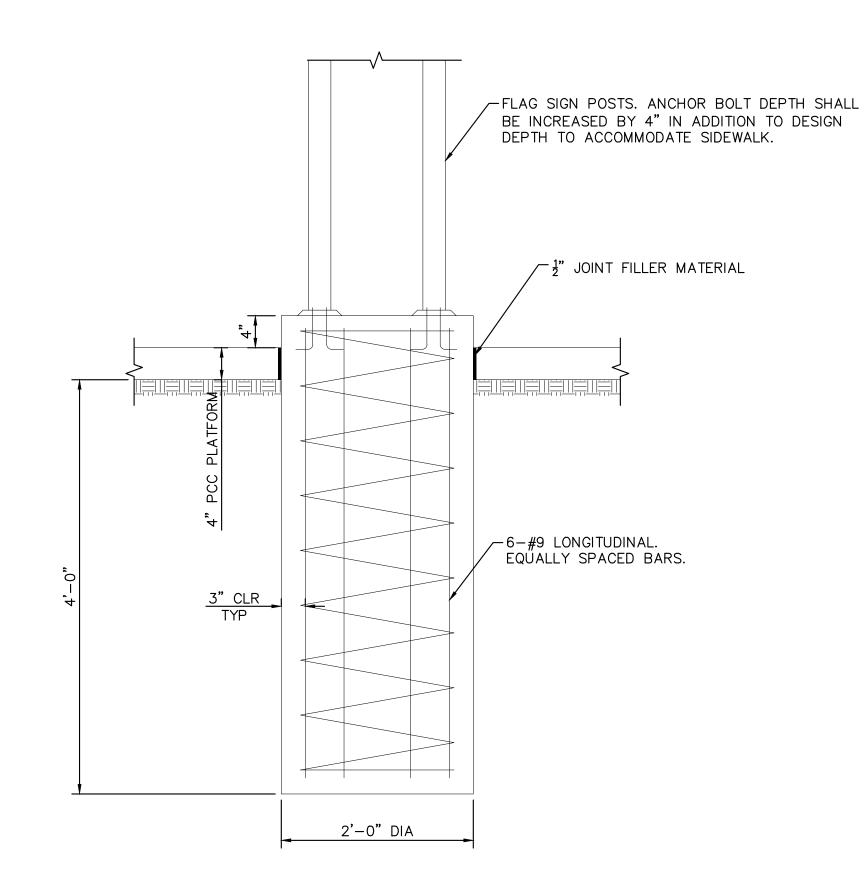
CONTRACTOR SHALL COORDINATE ANCHOR BOLT SIZE, EMBEDMENT AND PLACEMENT WITH STRUCTURE MANUFACTURER PRIOR TO PLACEMENT OF CONCRETE IN FOUNDATION. ANCHOR BOLTS SHALL BE CAST IN WITH FOUNDATION CONCRETE AND NOT AFTER CONCRETE HAS SET. ANCHOR BOLT LENGTH SHALL BE INCREASED BY THICKNESS OF SIDEWALK (4") FROM DESIGN DEPTH TO ACCOMMODATE SIDEWALK DEPTH.

CONSTRUCTION STAGING SHALL BE AS FOLLOWS-

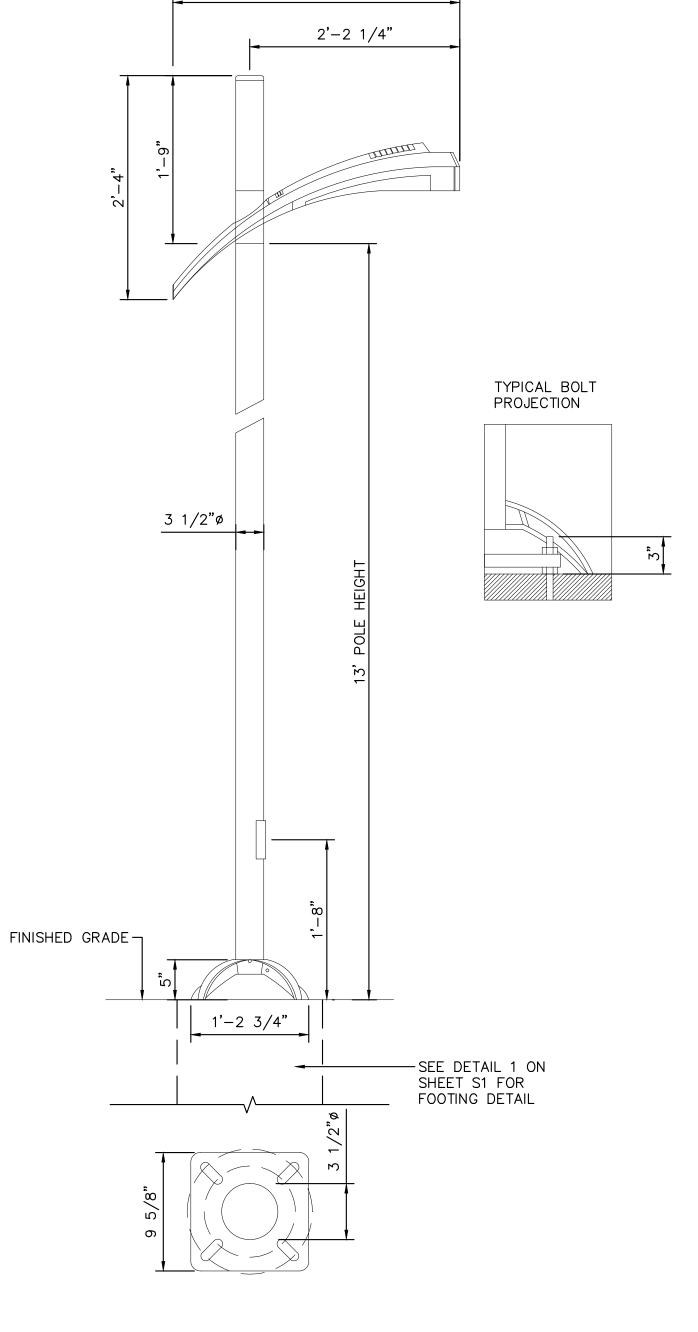
- 1) DRILL AND POUR FOUNDATION WITH ANCHOR BOLTS IN PLACE TO TOP OF FOUNDATION ELEVATION.
- 2) POUR SIDEWALK WITH ADEQUATE PROJECTION OF ANCHOR BOLTS FROM TOP OF SIDEWALK ELEVATION.
- 3) PLACE LIGHT OR SIGN POST.

SPECIAL INSTRUCTIONS

SEE SHEET SD-03 FOR SPECIAL INSPECTION REQUIREMENTS



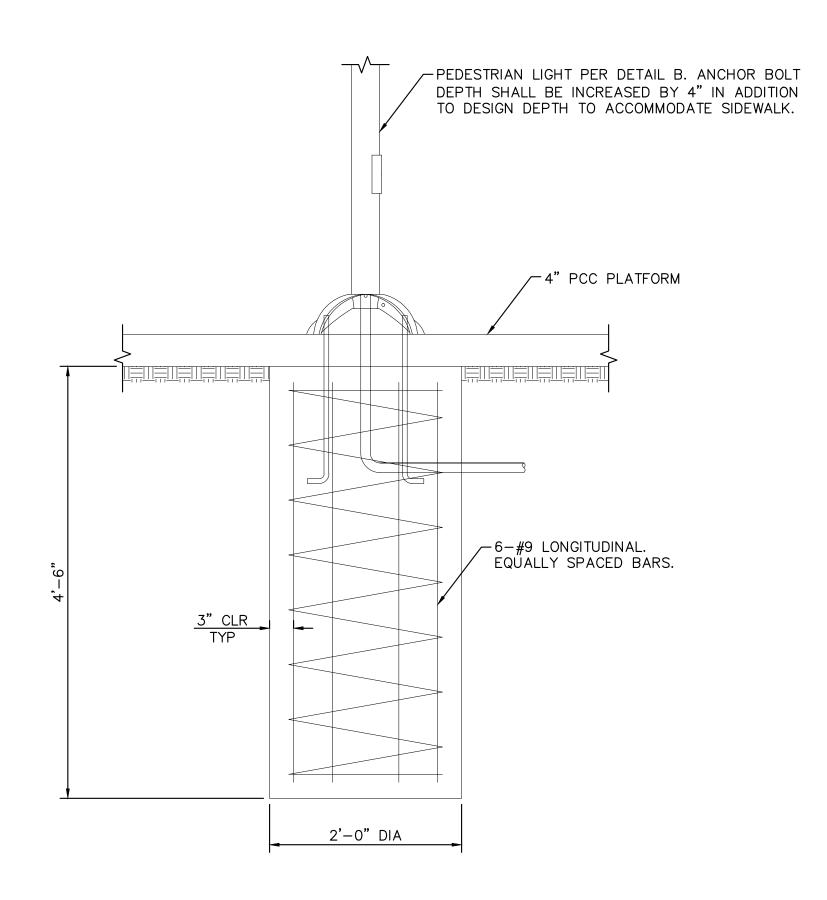
COLUMN-MOUNTED FLAG SIGN FOUNDATION DETAIL SD-04 SCALE: 1"=1'



3'-2"

RAPID PEDESTRIAN LIGHT SD-04 NOT TO SCALE

CALIFORNIA



PEDESTRIAN LIGHT FOUNDATION SD-04 NOT TO SCALE



	DESCRIPTION	DATE	REV.
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LIVERMORE

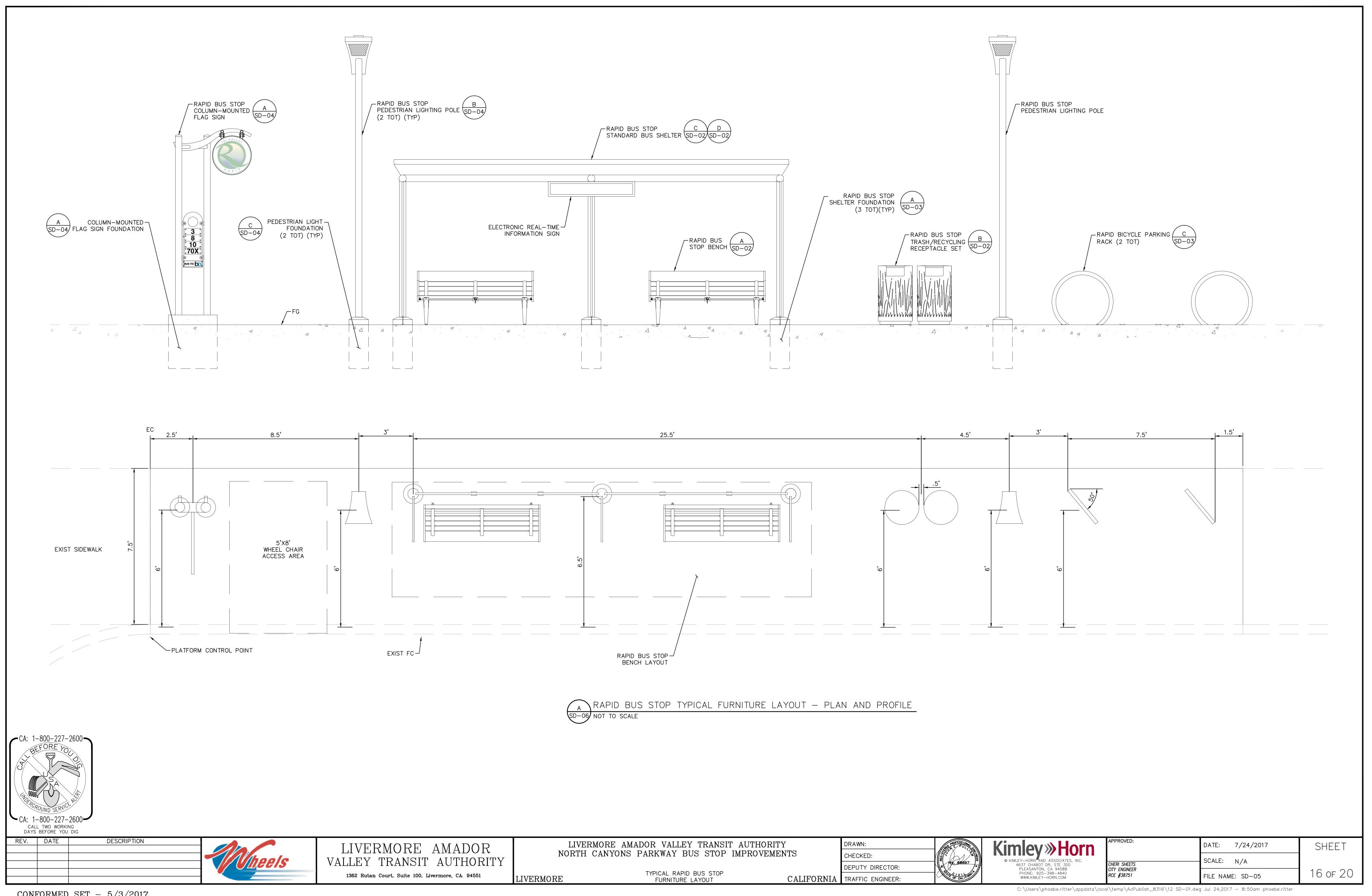
LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS

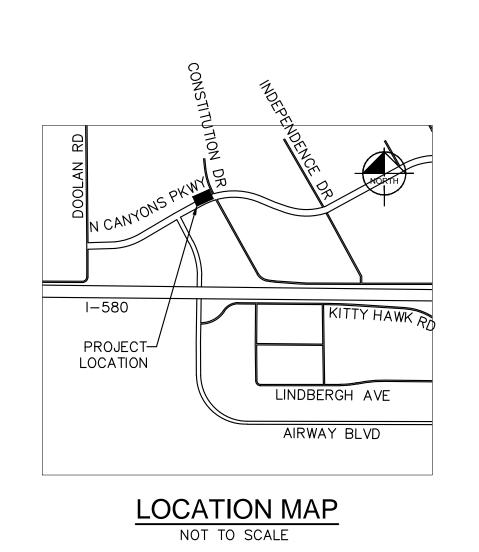
> RAPID BUS STOP COLUMN-MOUNTED FLAG SIGN STRUCTURAL DETAILS

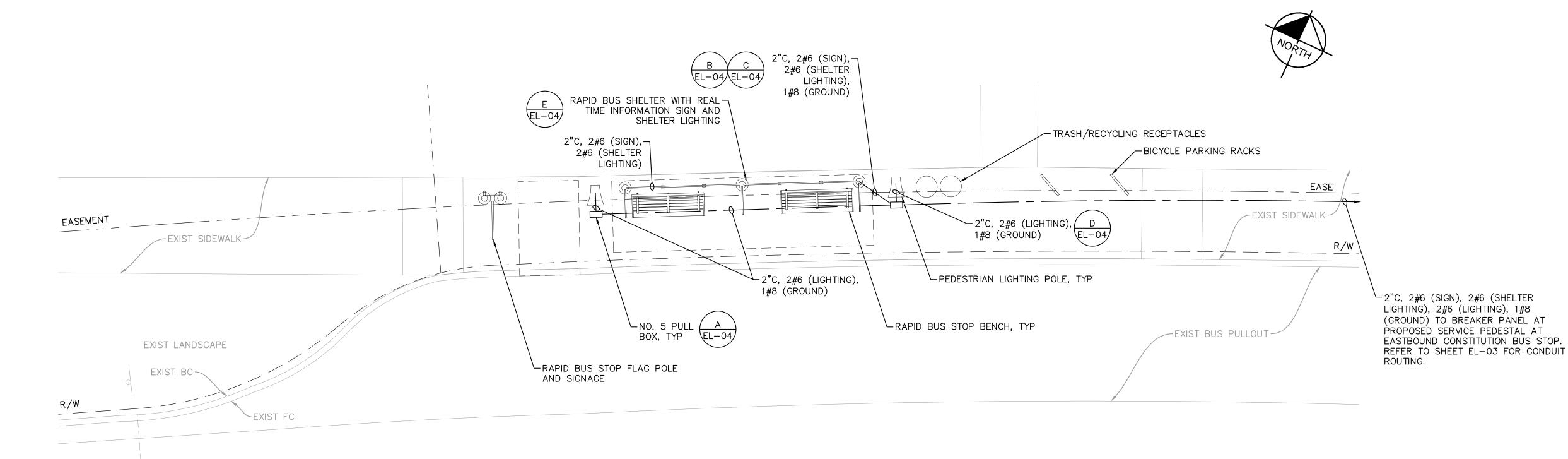
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DEPUTY DIRECTOR:	66697	
TRAFFIC ENGINEER:	OF CALIFORN	

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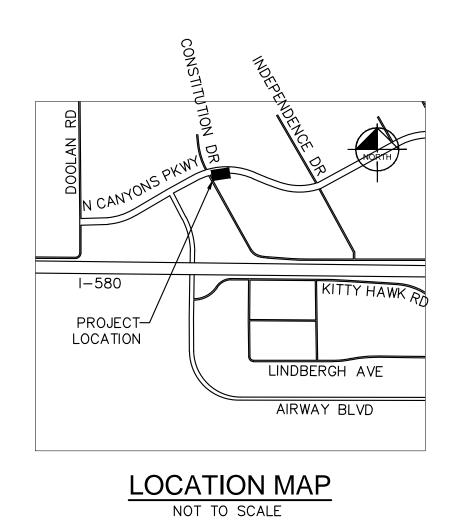
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CITY ENGINEER RCE #38751	FILE NAME: SD-04	15 of 2

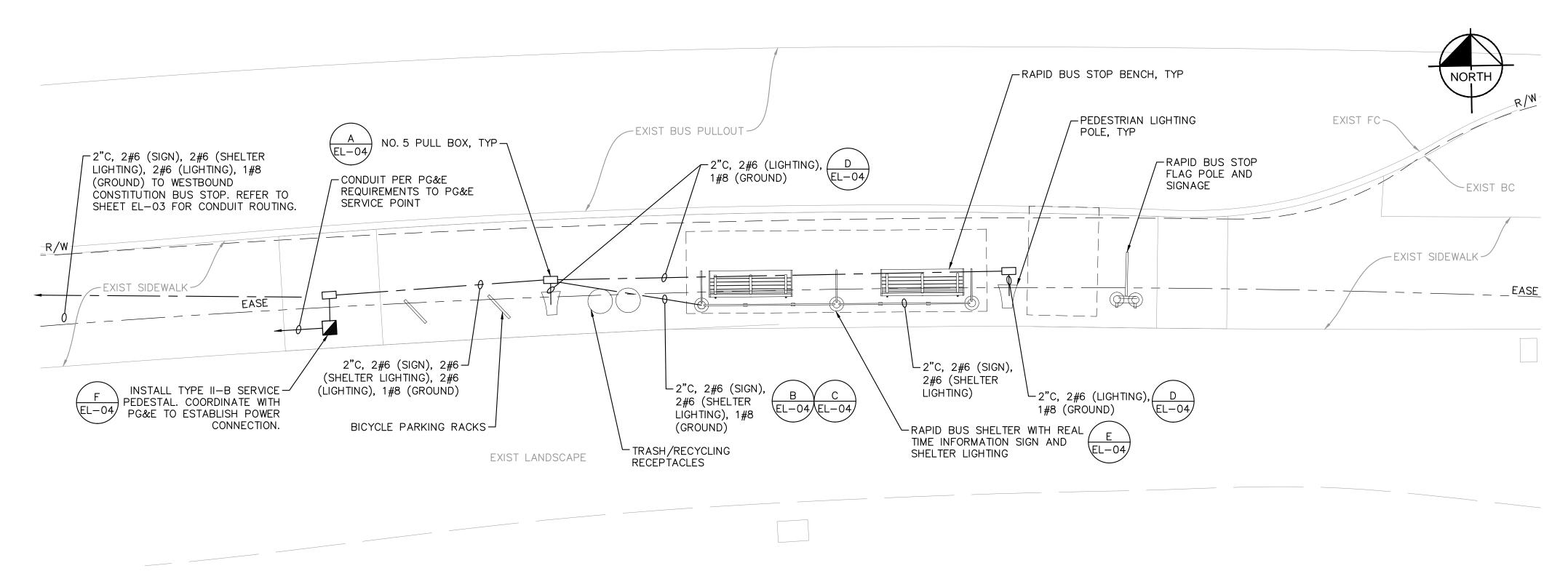






ELECTRICAL PLAN NORTH CANYONS PARKWAY AND CONSTITUTION DRIVE - WESTBOUND





<u>NOTES</u>

- DIMENSIONS SHOWN MAY NOT ADD DUE TO ROUNDING. EXACT LOCATIONS MAY BE FIELD ADJUSTED.
- 2. ALL UTILITIES AND FEATURES ADJACENT TO THE SHOWN LIMITS OF PROPOSED CONSTRUCTION SHALL BE PRESERVED AND PROTECTED IN PLACE.
- 3. NO TEMPORARY BUS STOP IS NECESSARY AT THIS LOCATION.
- 4. ALL UTILITIES AND FEATURES ADJACENT TO THE SHOWN LIMITS OF PROPOSED CONSTRUCTION SHALL BE PRESERVED AND PROTECTED IN PLACE.
- CONTRACTOR TO REDIRECT BUS PATRONS TO EXISTING WESTBOUND BUS STOP. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION MAINTENANCE AND REMOVAL OF TEMPORARY BUS STOP SIGNAGE, BARRICADES, PAVEMENT MARKINGS, AND NO PARKING SIGNS PER THE SPECIAL PREVISIONS.
- 6. BUS STOP SHALL BE WIRED PER DETAIL F ON SHEET EL-04.
- 7. SEE CD SHEETS FOR INSTALLATION OF SHELTER AND AMENITIES

ELECTRICAL PLAN NORTH CANYONS PARKWAY AND CONSTITUTION DRIVE - EASTBOUND

REV. DATE DESCRIPTION	
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LIVERMORE

LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS

> ELECTRICAL PLANS - CONSTITUTION DRIVE CALIFORNIA

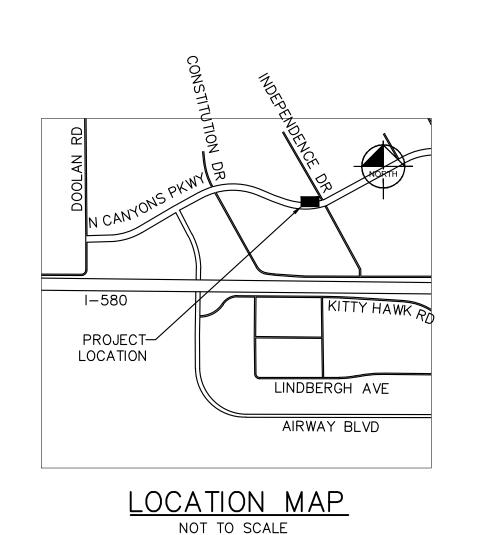
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TRAFFIC ENGINEER:	OF CALIFORNIA

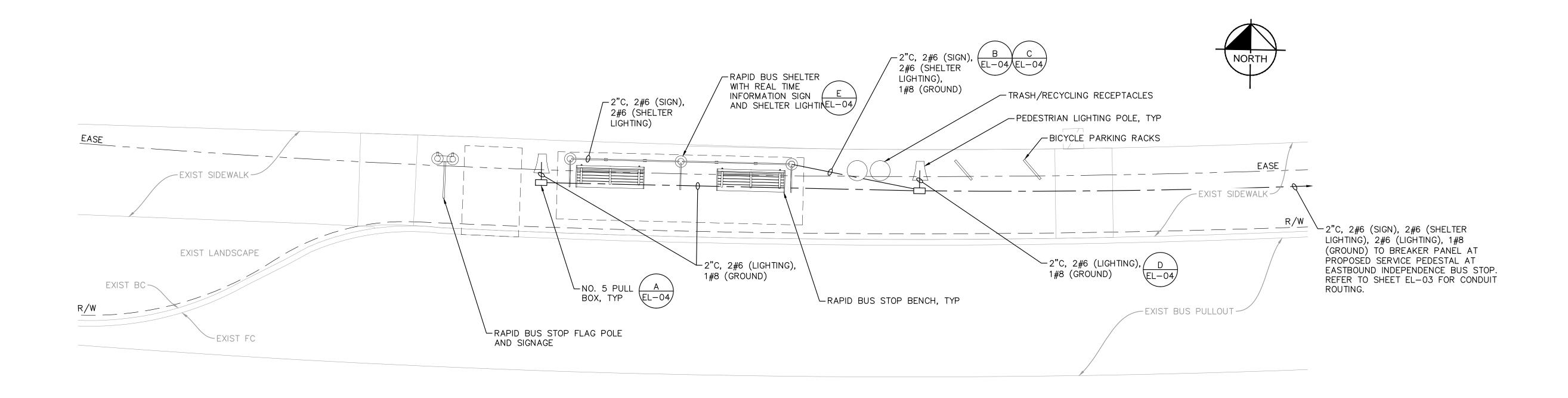
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APPROVED:	DATE: 7/24/2017	SHEET
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CITY ENGINEER RCE #38751	FILE NAME: EL-01	17 of 20

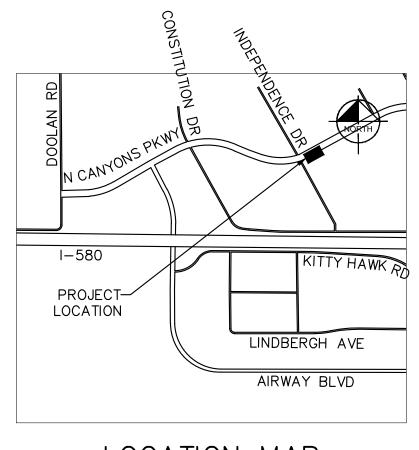
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► CA: 1-800-227-2600 CALL TWO WORKING DAYS BEFORE YOU DIG



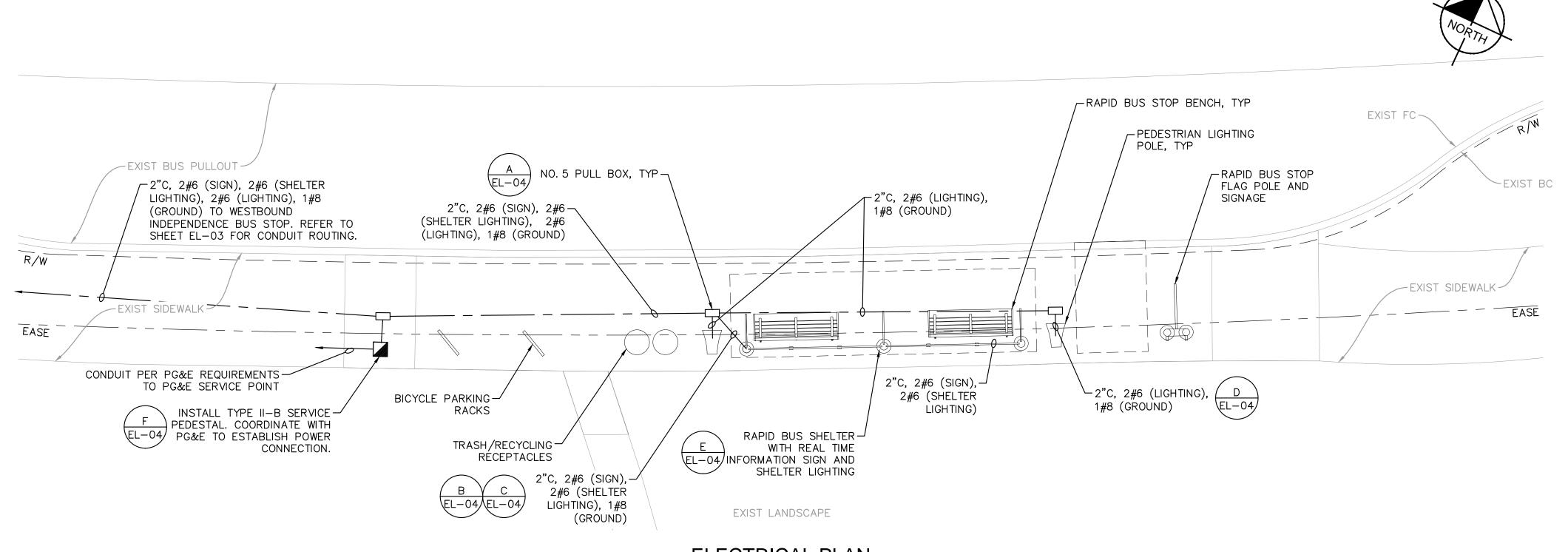


ELECTRICAL PLAN NORTH CANYONS PARKWAY AND INDEPENDENCE DRIVE - WESTBOUND



LOCATION MAP

NOT TO SCALE



<u>NOTES</u>

- 1. DIMENSIONS SHOWN MAY NOT ADD DUE TO ROUNDING. EXACT LOCATIONS MAY BE FIELD ADJUSTED.
- 2. ALL UTILITIES AND FEATURES
 ADJACENT TO THE SHOWN LIMITS OF
 PROPOSED CONSTRUCTION SHALL BE
 PRESERVED AND PROTECTED IN PLACE.
- NO TEMPORARY BUS STOP IS NECESSARY AT THIS LOCATION.
- 4. ALL UTILITIES AND FEATURES
 ADJACENT TO THE SHOWN LIMITS OF
 PROPOSED CONSTRUCTION SHALL BE
 PRESERVED AND PROTECTED IN PLACE.
- 5. CONTRACTOR TO REDIRECT BUS
 PATRONS TO EXISTING WESTBOUND
 BUS STOP. CONTRACTOR SHALL BE
 RESPONSIBLE FOR INSTALLATION
 MAINTENANCE AND REMOVAL OF
 TERMPORARY BUS STOP SIGNAGE,
 BARRICADES, PAVEMENT MARKINGS,
 AND NO PARKING SIGNS PER THE
 SPECIAL PREVISIONS.
- 6. BUS STOP SHALL BE WIRED PER DETAIL F ON SHEET EL-04.
- 7. SEE CD SHEETS FOR INSTALLATION OF SHELTER AND AMENITIES

<u>ELECTRICAL PLAN</u> NORTH CANYONS PARKWAY AND INDEPENDENCE DRIVE - EASTBOUND

REV. DATE DESCRIPTION

| Control of the control of

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VALLEY TRANSIT AUTHORITY

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LIVERMORE

LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS

ELECTRICAL PLANS - INDEPENDENCE DRIVE

CALIFORNIA

RAWN:	PROFESSION FOUND
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EPUTY DIRECTOR:	68897 *
RAFFIC ENGINEER:	OF CALLY OFF

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DATE: 7/24/2017 SHEET

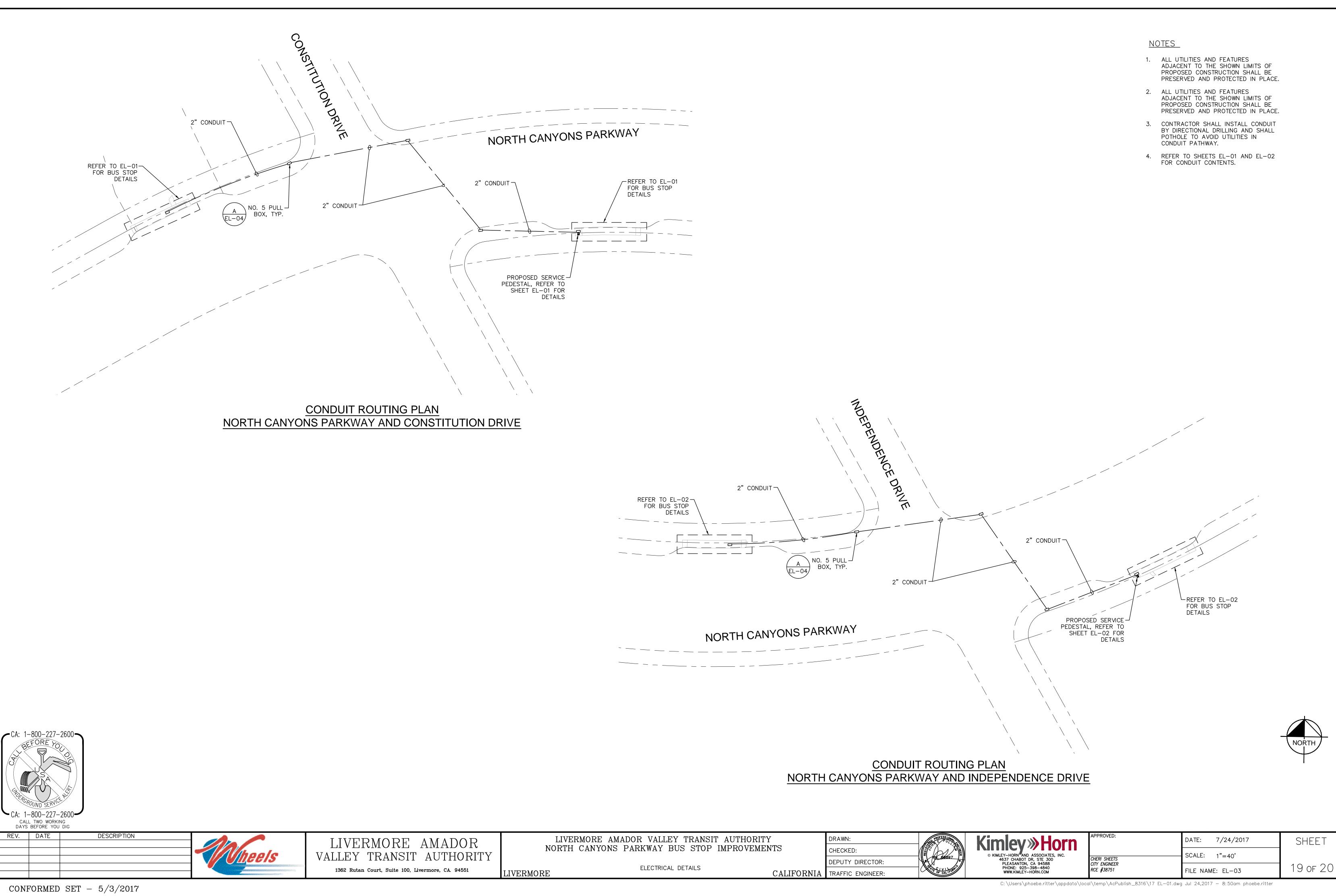
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RCE #38751

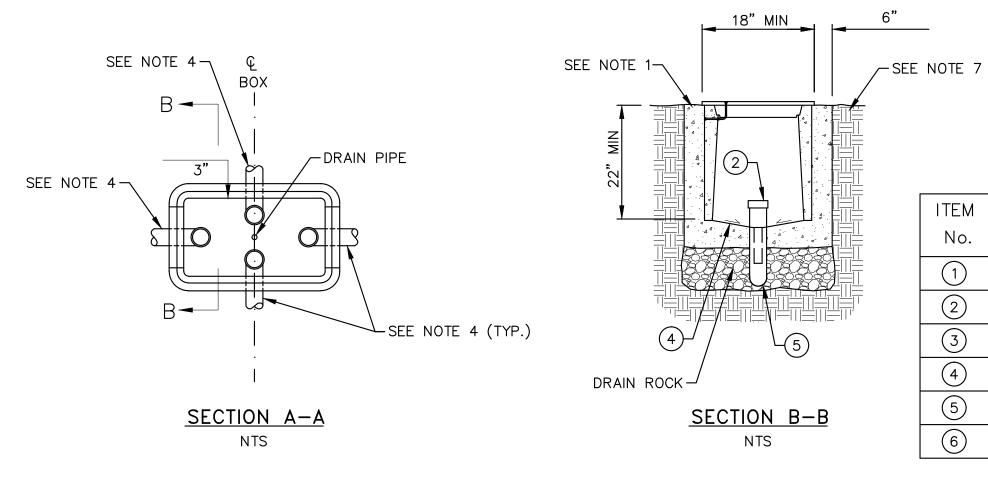
FILE NAME: EL-02

18 OF 20

CA: 1−800−227−2600**−**

CA: 1-800-227-2600





ITEM No.	PULL BOX INSTALLATION DETAIL DESCRIPTION
110.	WARNING TAPE (IF OPEN TRENCHING)
2	CONDUIT BELL END (TYPICAL)
3	NO. 5 PULL BOX WITH EXCEPTIONS AS DRAWN
4	GROUTED FLOOR OVER CLEAN CRUSHED ROCK SUMP PER AGENCY STANDARD
5	SCHEDULE 80 PVC, HDPE, OR GRS CONDUIT (SEE PLANS FOR SIZE)
6	90 DEGREE ELBOW, 15" RADIUS

SEE NOTE 2-SEE NOTE 1 (TYP.) DRAIN ROCK

NOTES:

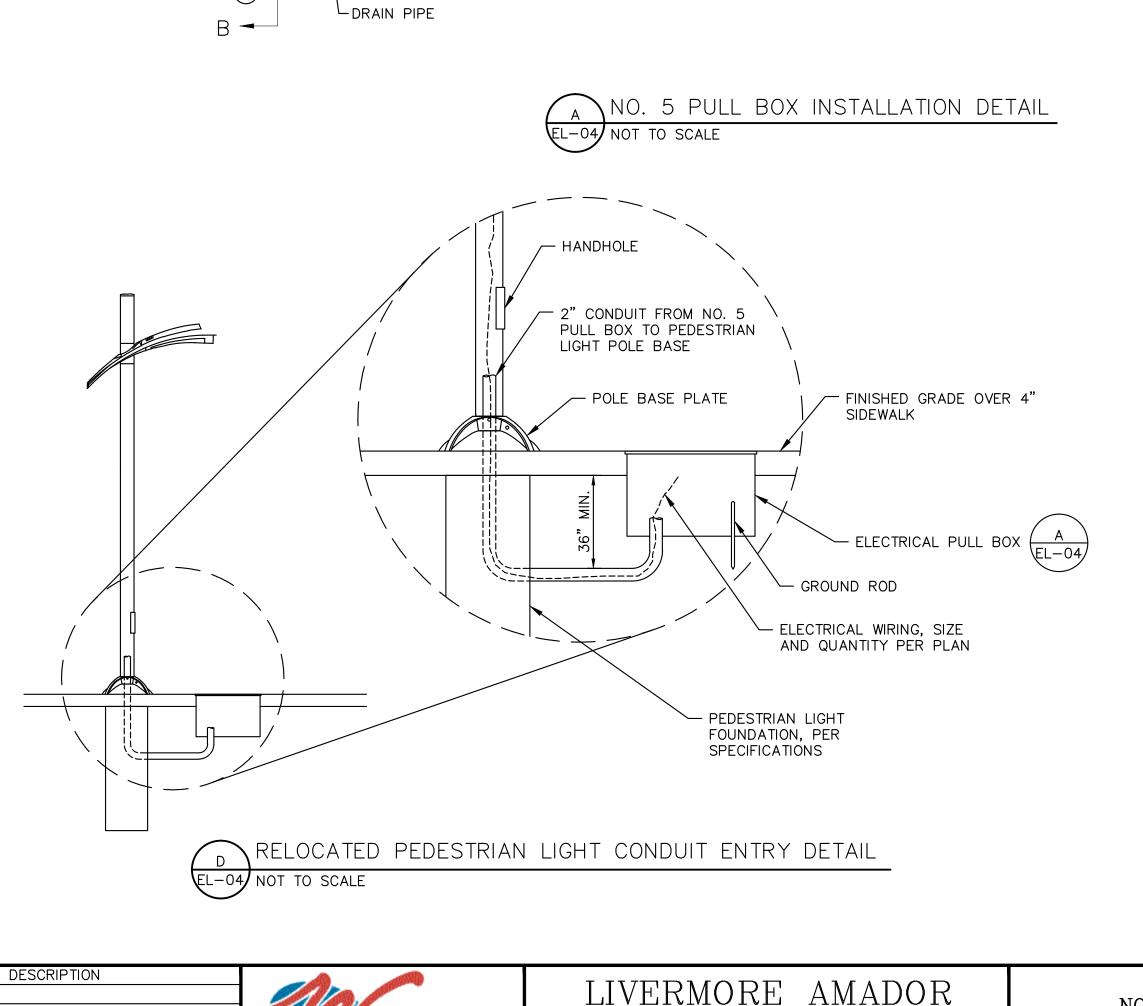
- 1. BACKFILL ACCORDING TO THE CITY OF LIVERMORE STANDARD SPECIFICATIONS AND DETAILS.
- 2. "ELECTRICAL" SHALL BE THE TITLE INTEGRATED IN THE LID OF ALL PULL BOXES.
- 3. CONDUIT FROM THE TYPICAL BORE OR TRENCH SECTION SHOULD NOT DEFLECT BY MORE THAN 1 FOOT PER 10 FEET FROM THE ALIGNMENT PRECEDING OR FOLLOWING THE PULL BOX.
- 4. SEE PLAN SHEETS FOR NUMBER AND SIZE OF CONDUIT.
- 5. NUMBERS IN CIRCLES REFER TO ITEMS IN THE TABLE.
- 6. IF NEW CONDUIT IS USED, THE CONTRACTOR SHALL INSTALL SCHEDULE 80 PVC OR HDPE CONDUIT WITH 90 DEGREE BEND AS SHOWN.
- 7. PULL BOX HEIGHT ABOVE FINISHED GRADE SHALL PERMIT 1" OF SURFACE LANDSCAPING, IF APPLICABLE, TO MATCH EXISTING CONDITIONS.
- 8. NO. 5 PULL BOX SHALL BE CONCRETE AND SUPPORT A MINIMUM TEST LOAD OF 12,500 LBS. IF PULL BOX IS LOCATED IN A TRAVEL WAY, PULL BOX SHALL COVER SHALL BE STEEL AND SHALL CONFORM TO VERTICAL PROOF-LOAD STRENGTH REQUIREMENTS PER CALTRANS STANDARD SPECIFICATIONS, SECTION 86-2.07.

ELECTRICAL DETAILS

CALIFORNIA TRAFFIC ENGINEER:

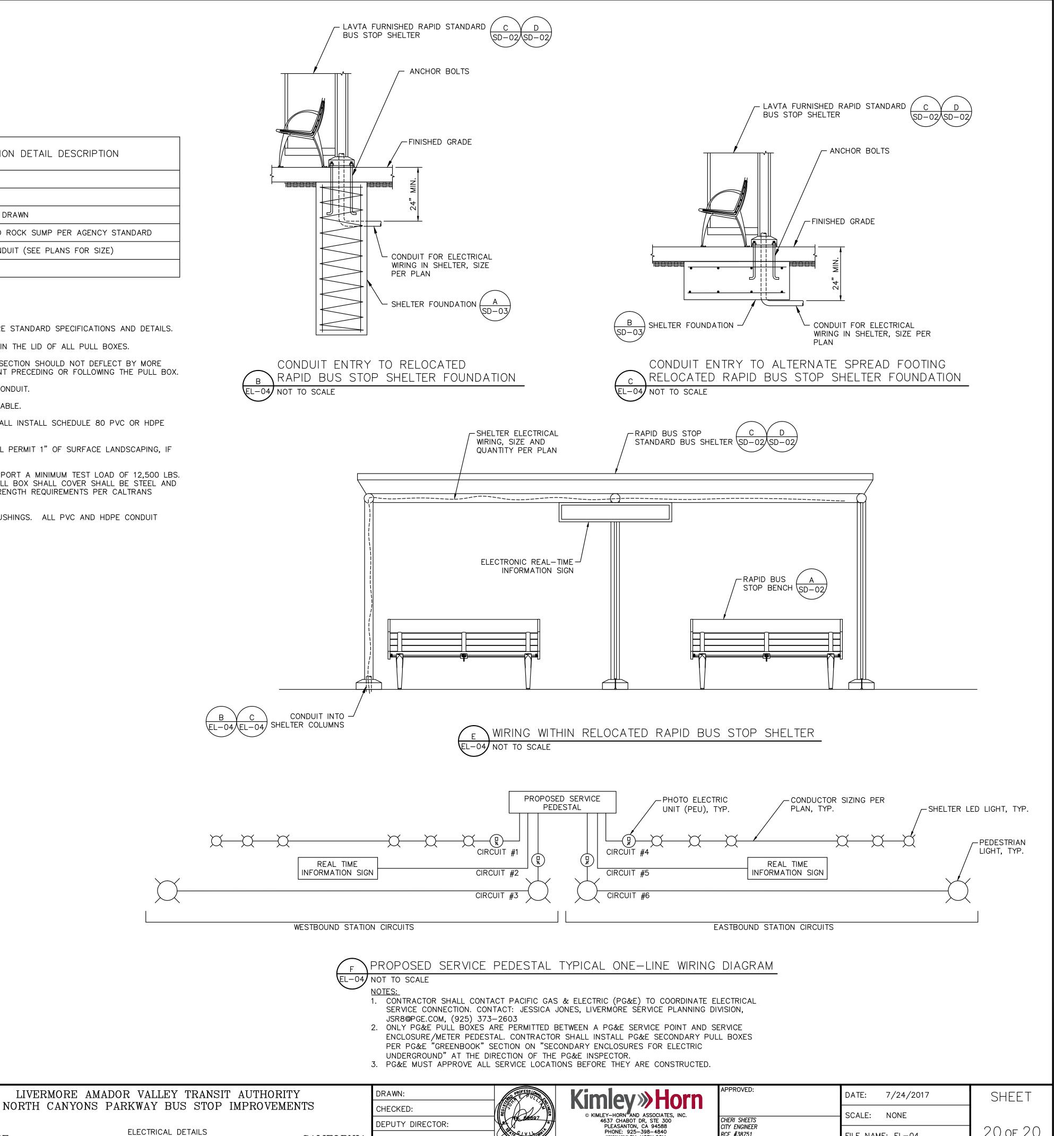
9. ALL METALLIC CONDUIT SHALL HAVE GROUND BUSHINGS. ALL PVC AND HDPE CONDUIT SHALL HAVE BELL ENDS.

LIVERMORE



VALLEY TRANSIT AUTHORITY

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CA: 1−800−227−2600**−**

CA: 1-800-227-2600

CALL TWO WORKING DAYS BEFORE YOU DIG DATE

FILE NAME: EL-04

RCE #38751

20 of 20