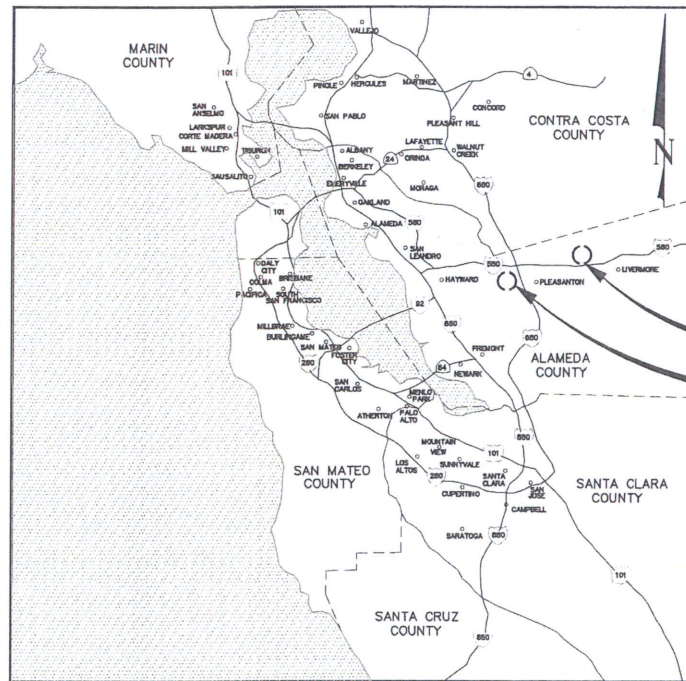
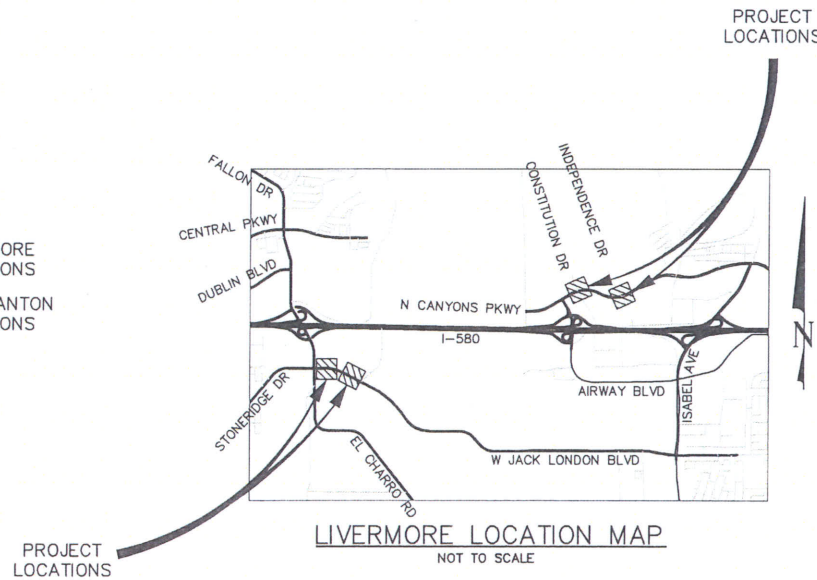


LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS

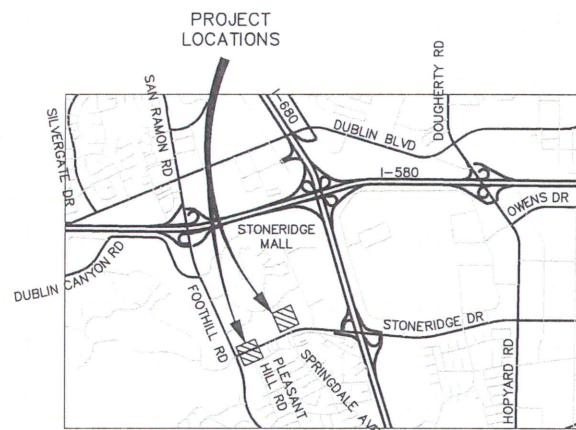
TO BE SUPPLEMENTED BY STATE STANDARD PLANS DATED 2015 AND
CITY OF LIVERMORE STANDARD DETAILS DATED MAY 4, 2016 AND
CITY OF PLEASANTON STANDARD DETAIL DATED NOVEMBER, 2016



VICINITY MAP
NOT TO SCALE



LIVERMORE LOCATION MAP
NOT TO SCALE



PLEASANTON LOCATION MAP
NOT TO SCALE

SURVEYOR'S NOTES:

1. THE COORDINATE SYSTEM IS BASED ON A RTK GPS ESTABLISHED CONTROL NETWORK ON SITE, USING NAD83 CCS ZONE 3 COORDINATES (EPOCH 2010.00). 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 6180857.94), A SET REBAR ON THE NORTH SIDE OF NORTH CANYONS PARKWAY AND EAST 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.

CONTROL POINT TABLE					
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 ABBREVIATIONS SHOWN IN THIS PLAN ARE TO BE SUPPLEMENTED BY CALTRANS 2015 STANDARD PLANS.

ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	(NO. / NO.)	DETAIL REFERENCE SHEET FILE NAME
BC	BACK OF CURB	(NO. / S)	STATE STANDARD PLAN REFERENCE
B/W	BACK OF WALK	(NO. / C)	CITY STANDARD PLAN REFERENCE
C	CONDUIT		
CBC	CALIFORNIA BUILDING CODE		
CIR	CIRCLE/CIRCULAR		
E	EASTING/EAST		
FC	FACE OF CURB		
GPS	GLOBAL POSITIONING SYSTEM		
KSI	KIPS PER SQUARE INCH		
LAVTA	LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY		
MPH	MILES PER HOUR		
N	NORTHING		
PG&E	PACIFIC GAS AND ELECTRIC		
PSF	POUNDS PER SQUARE FOOT		
PSI	POUNDS PER SQUARE INCH		
PV	PHOTOVOLTAIC		
REF	REFERENCE		
TC	TOP OF CURB		

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.

APPROVED FOR THE LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY:

KIMLEY-HORN AND ASSOCIATES, INC. PREPARED UNDER THE DIRECTION OF:

By: *[Signature]*
MICHAEL TREE
EXECUTIVE DIRECTOR

DATE: 9/16/17

By: *[Signature]*
JOHN WILLIAM
R.C.E. 68897

DATE: 9/7/17

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- 5 SALVAGE DETAILS
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- 9 NORTH CANYONS PARKWAY AND CONSTITUTION DRIVE - EASTBOUND
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- 18 ELECTRICAL PLANS - INDEPENDENCE DRIVE
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OWNER

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

SURVEYOR

LCC ENGINEERING AND SURVEYING, INC.
930 ESTUDILLO STREET
MARTINEZ, CA 94553
PHONE: (925) 228-4218
CONTACT: CHRISTINE PARKS

CIVIL ENGINEER

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



REV.	DATE	DESCRIPTION

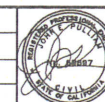


LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY
1362 Rutan Court, Suite 100, Livermore, CA 94551
LIVERMORE CALIFORNIA

LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY
NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS

COVER SHEET

DRAWN:
CHECKED:
DEPUTY DIRECTOR:
TRAFFIC ENGINEER:



Kimley-Horn
KIMLEY-HORN AND ASSOCIATES, INC.
4637 CHABOT DR. STE 300
PLEASANTON, CA 94588
PHONE: 925-398-4848
WWW.KIMLEY-HORN.COM

APPROVED:
CHERYL SHEETS
CITY ENGINEER
RCE #38751

DATE: 9/7/2017
SCALE: N/A
FILE NAME: CV-01

SHEET
1 of 19

GENERAL NOTES

- ALL MATERIAL AND WORKMANSHIP SHALL FULLY CONFORM TO THE SPECIFICATIONS, STANDARDS, AND ORDINANCES OF THE CITY OF LIVERMORE AND THE CITY OF PLEASANTON.
- 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.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE COVER FOR THE PROTECTION OF ALL PROPOSED AND EXISTING UTILITIES DURING THE CONSTRUCTION OF THE PROJECT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE ENGINEER UPON DISCOVERY OF ANY FIELD CONFLICTS.
- 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.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER.
- 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.
- 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.
- 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.
- 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.
- EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE AND IN PLACE BY THE CONTRACTOR DURING CONSTRUCTION UNLESS OTHERWISE SHOWN ON THE PLANS.
- 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 WITHIN 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.
- 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.
- 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.
- ALL SIGN CODES REFER TO THE 2016 CALIFORNIA EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- THE CONTRACTOR SHALL DISPOSE OF EXCESS MATERIAL OFF-SITE IN CONFORMANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- THE CONTRACTOR SHALL MINIMIZE CONSTRUCTION NOISE.
- 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.
- 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.

- 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.
- 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 RESPONSIBLE FOR STORAGE OF MATERIAL OFF-SITE AT NO EXTRA COST TO LAVTA OR THE CITY OF LIVERMORE.
- 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.
- 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.
- 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.
- 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.
- ALL CONDUIT SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
- WITHIN 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.
- 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.
- 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.
- ALL SITE WORK SHALL BE IN CONFORMANCE WITH TITLE 24 OF THE CALIFORNIA ADMINISTRATIVE CODE AND WITH THE AMERICANS WITH DISABILITIES ACT.

LEGEND

PROPOSED	EXISTING
	CITY OF LIVERMORE STANDARD CONCRETE SIDEWALK
	RAPID CONCRETE PLATFORM
	SIDEWALK REMOVAL
	RAPID BUS STOP FLAG POLE AND SIGNAGE
	RAPID TRASH AND RECYCLING RECEPTACLES (SET OF TWO RECEPTACLES)
	RAPID PEDESTRIAN BENCH
	TYP. UTILITY BOX/VAULT
	5' X 8' WHEELCHAIR CLEAR ZONE
	CONCRETE SAWCUT LINE
	TELEPHONE MANHOLE
	WATER VALVE
	CABLE TV LINE
	ELECTRIC LINE
	FIBER OPTIC LINE
	GAS LINE
	JOINT UTILITY LINE
	OVERHEAD UTILITY LINE
	STORM DRAIN LINE
	SANITARY SEWER LINE
	TELEPHONE LINE
	TRAFFIC SIGNAL LINE
	WATER LINE
	RIGHT-OF-WAY
	AC PAVEMENT SAWCUT LINE
	FENCE
	CURB
	DOWN GUY WIRE
	TRAFFIC SIGNAL POLE
	FIRE HYDRANT
	POWER POLE
	SANITARY SEWER MANHOLE
	STREET SIGN
	STORM DRAIN MANHOLE



REV.	DATE	DESCRIPTION



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

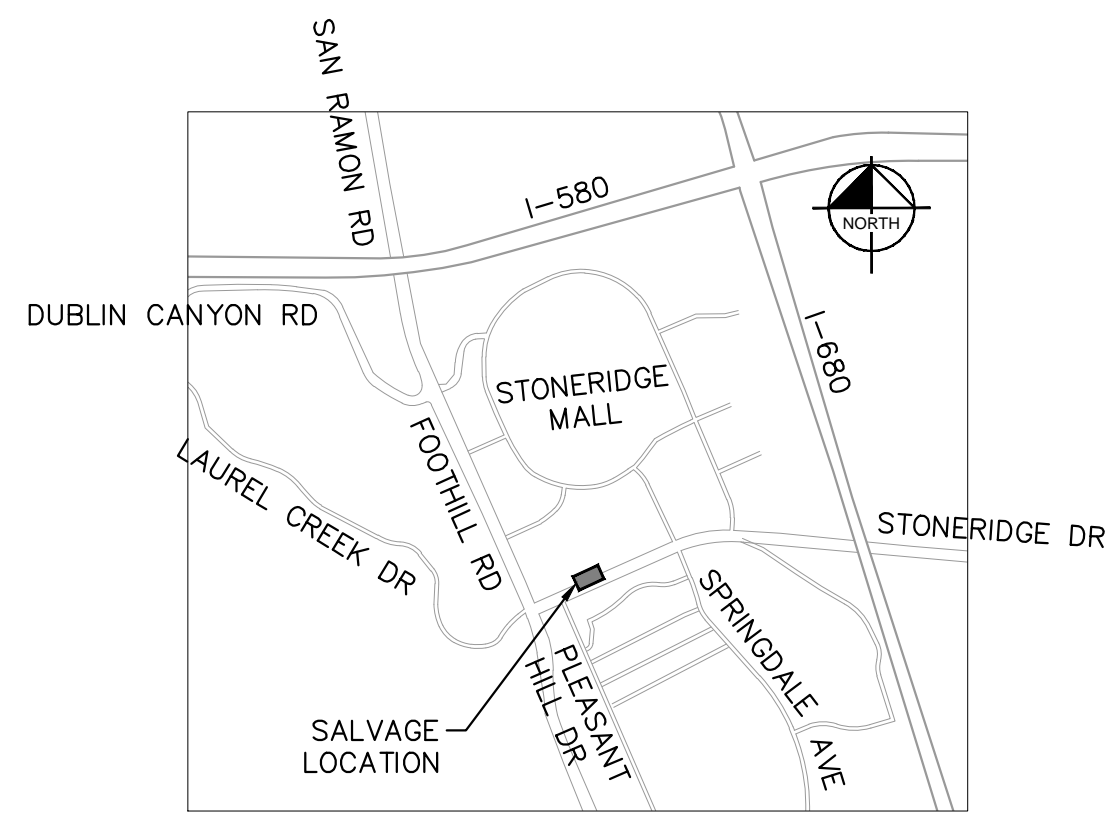
LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY
 NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS
 LIVERMORE CALIFORNIA

GENERAL NOTES

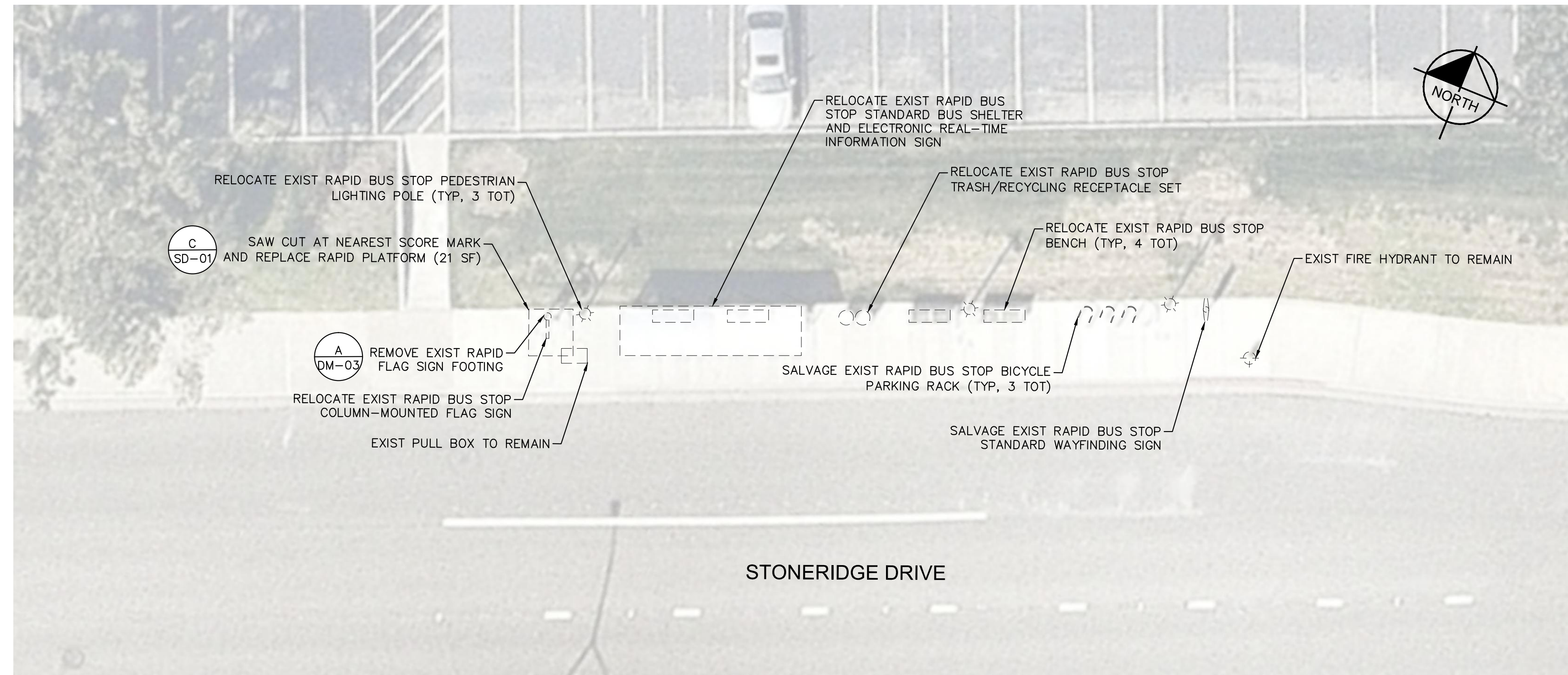
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 DEPUTY DIRECTOR:
 TRAFFIC ENGINEER:

APPROVED: [Signature]
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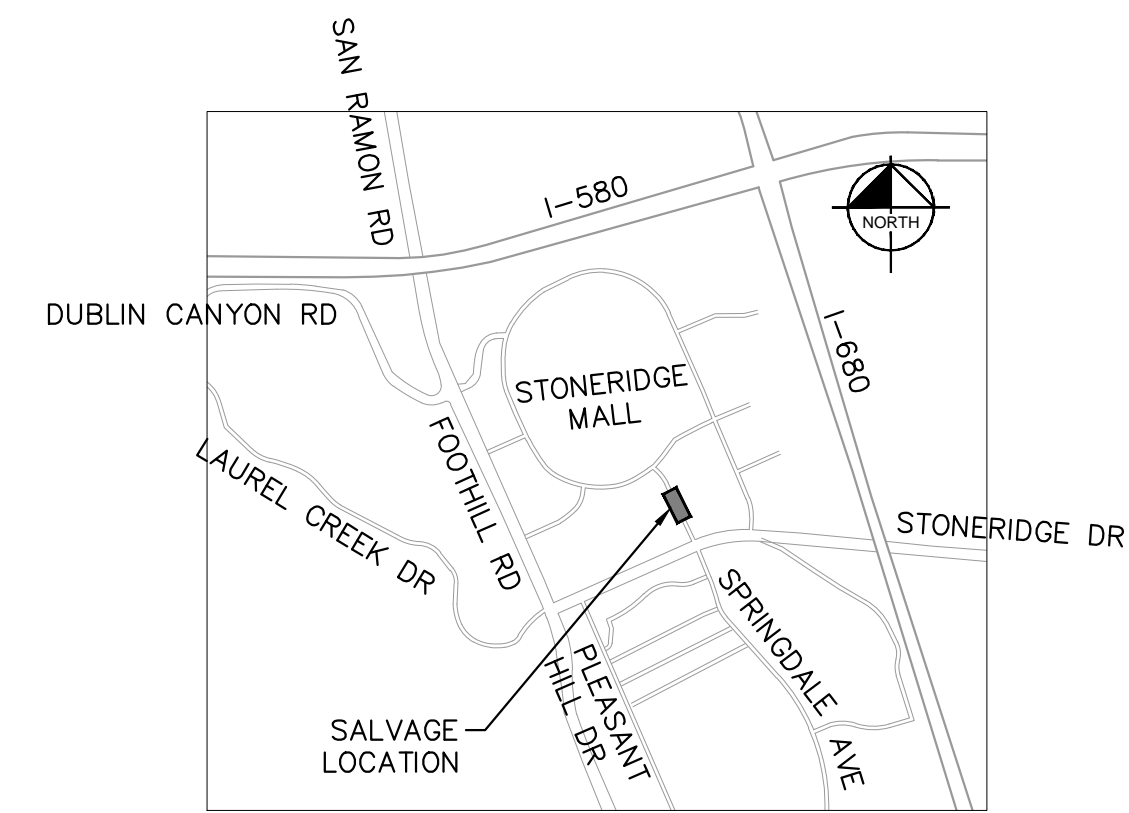


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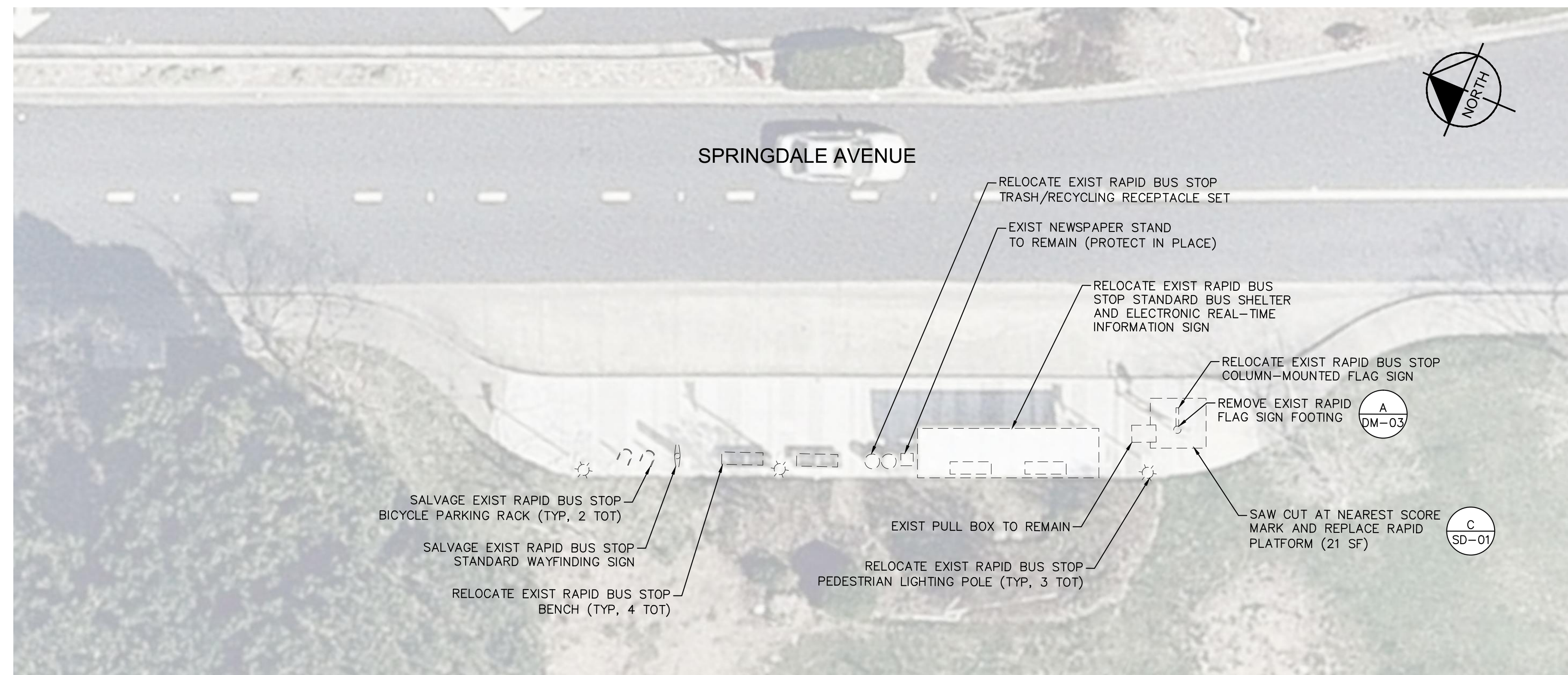


SALVAGE PLAN
STONERIDGE DRIVE AND PLEASANT HILL ROAD

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



SALVAGE PLAN
SPRINGDALE AVENUE AND KAISER PERMANENTE ENTRANCE

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	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

NOTES

- PRIOR TO REMOVAL ACTIVITIES, CONTRACTOR SHALL PHOTOGRAPH INFRASTRUCTURE TO BE SALVAGED IN SUFFICIENT DETAIL TO DOCUMENT EXISTING CONDITION.
- CONTRACTOR IS RESPONSIBLE FOR CONDITION OF RELOCATED AND SALVAGED MATERIALS. DAMAGED ITEMS WILL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- 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.
- ALL DISCONNECTED ELECTRICAL CONDUCTORS SHALL BE PULLED BACK INTO THE NEAREST PULL BOX AND COILED FOR FUTURE USE.
- GRIND ALL EXISTING BOLTS AND ANCHORS TO A POINT 1" BELOW THE EXISTING SURFACE. FILL WITH EPOXY OR GROUT THAT MATCHES EXISTING SIDEWALK COLOR.
- 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.



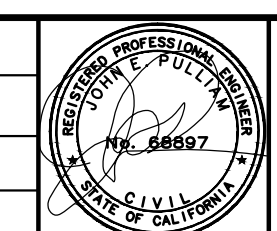
REV.	DATE	DESCRIPTION



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

LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY
NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS
LIVERMORE CALIFORNIA

DRAWN: _____
CHECKED: _____
DEPUTY DIRECTOR: _____
TRAFFIC ENGINEER: _____

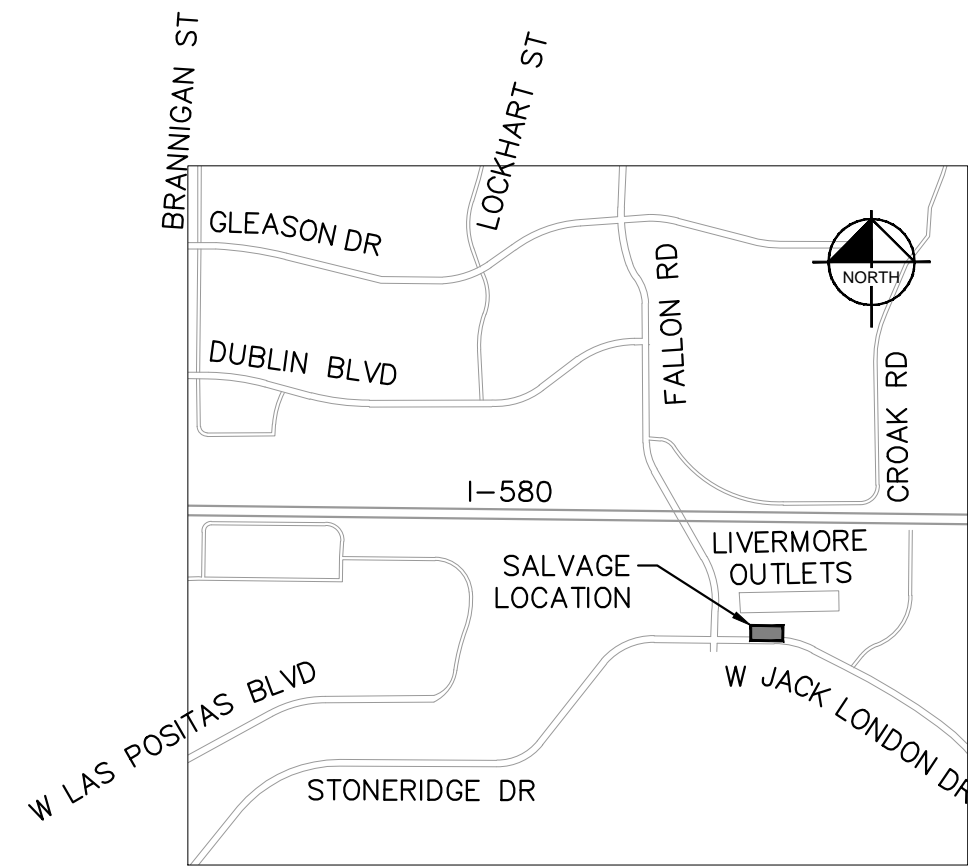


Kimley Horn
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PHONE: 925-366-4840
WWW.KIMLEY-HORN.COM

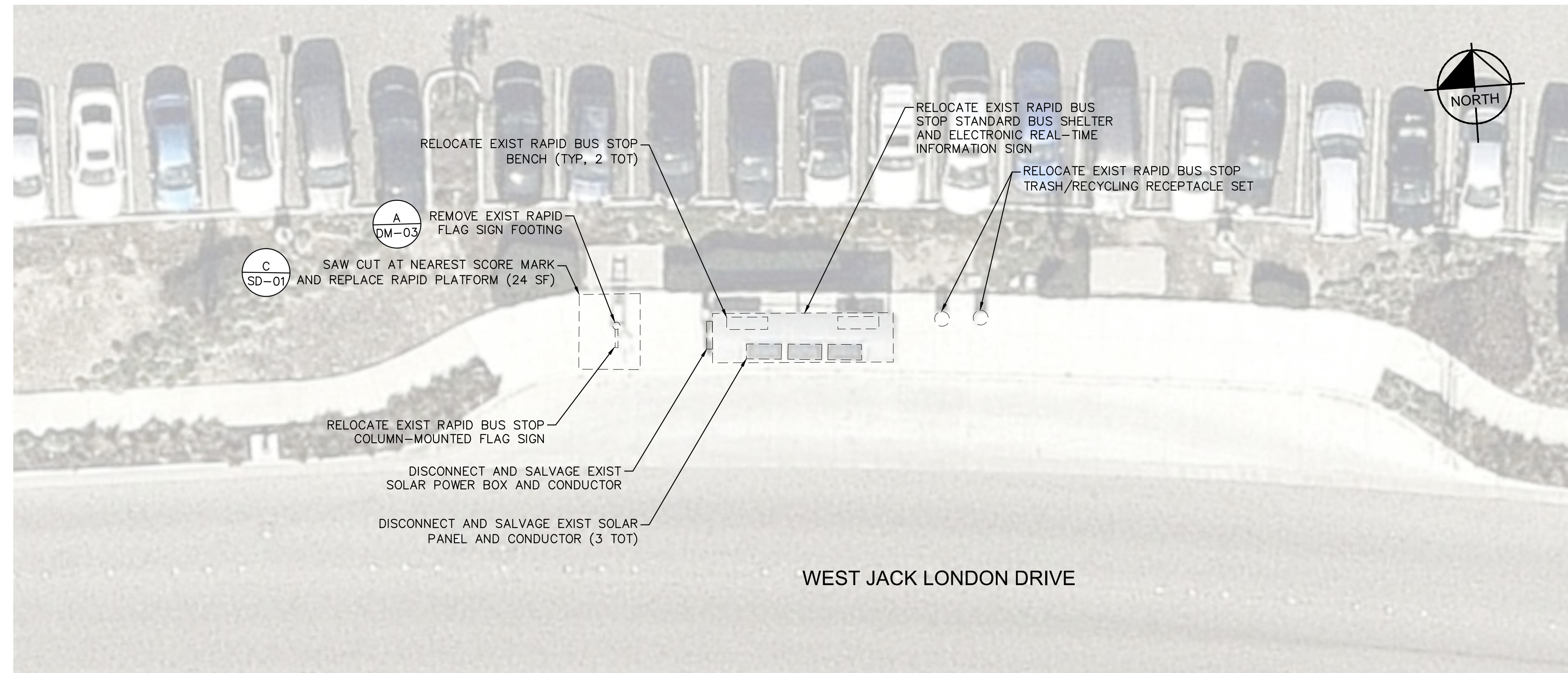
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CHERI SHEETS
CITY ENGINEER
RCE #38751

DATE: 9/7/2017
SCALE: 1"=10'
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SHEET
3 of 19

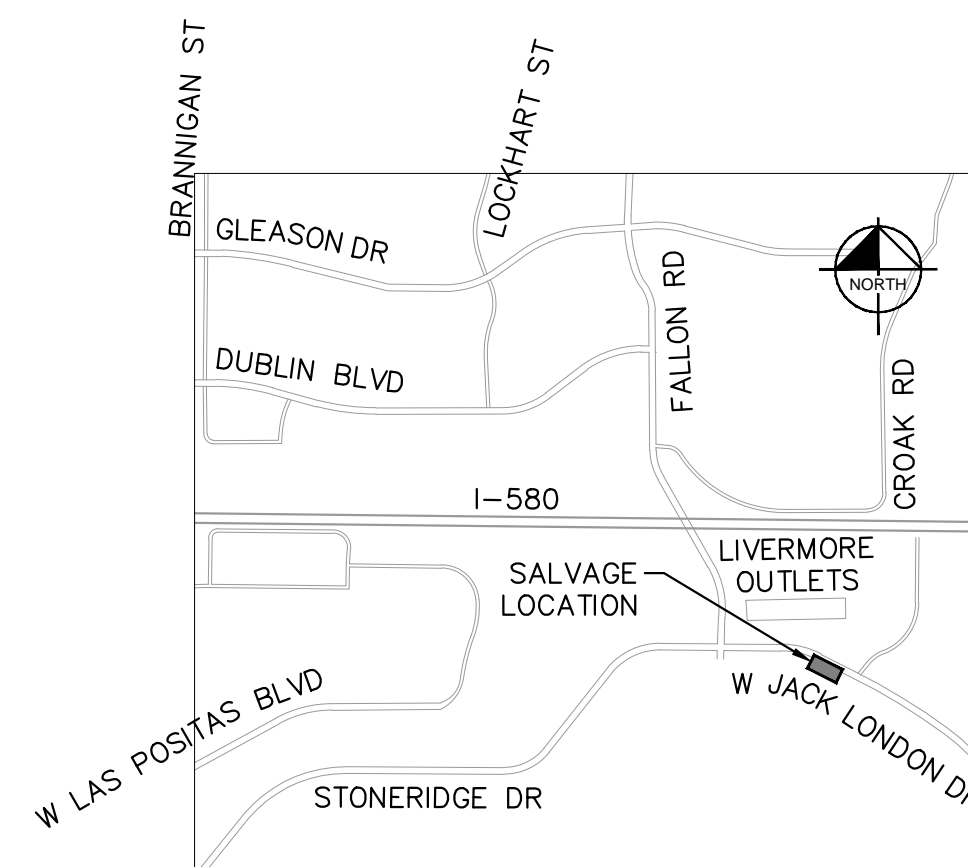


LOCATION MAP
NOT TO SCALE

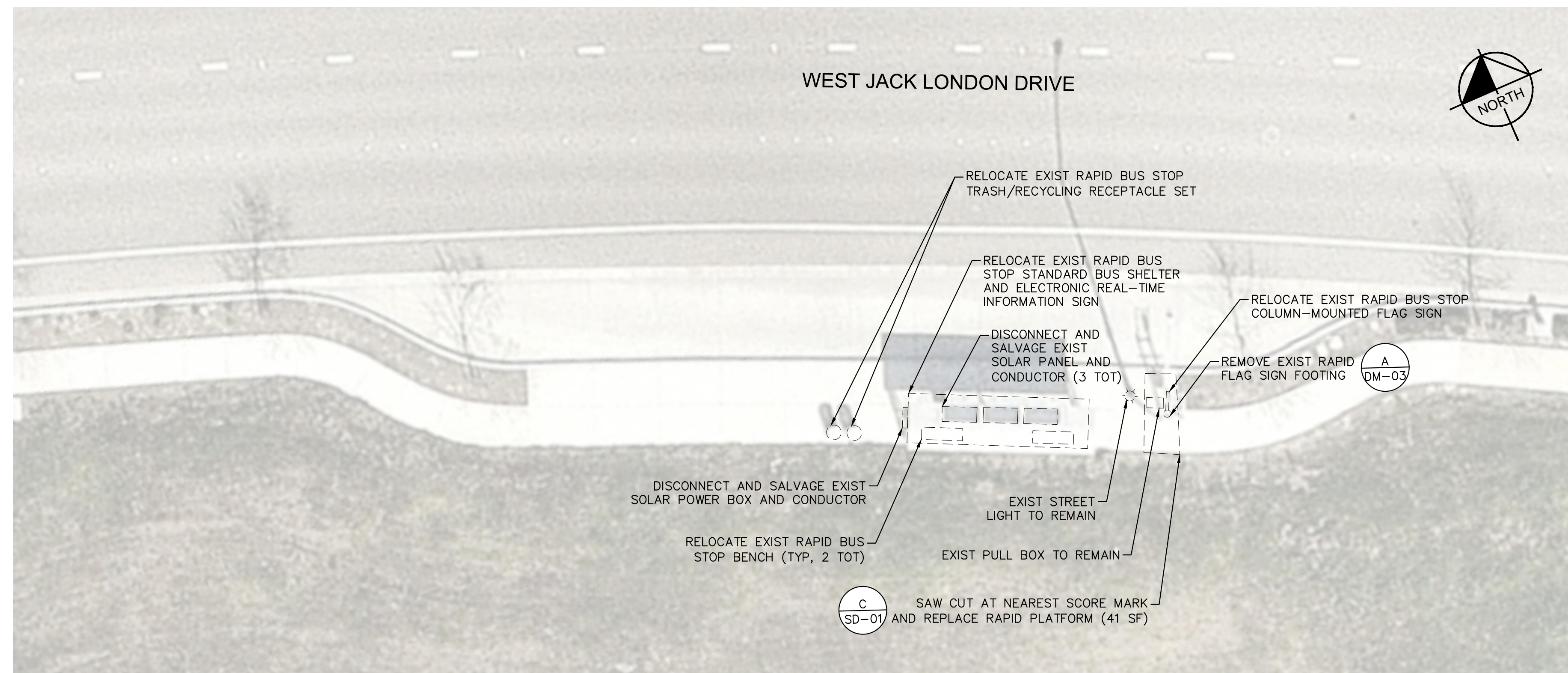


SALVAGE PLAN
WEST JACK LONDON BOULEVARD – WESTBOUND

AMMENITY INVENTORY		
DESCRIPTION	QUANTITY	ACTION
RAPID BUS STOP STANDARD BUS SHELTER	1	RELOCATE
ELECTRONIC REAL-TIME INFORMATION SIGN	1	RELOCATE
RAPID BUS STOP BENCH	2	SALVAGE
RAPID BUS STOP TRASH/RECYCLING RECEPTACLE SET	1	RELOCATE
RAPID BUS STOP BICYCLE PARKING RACK	0	N/A
RAPID BUS STOP STANDARD WAYFINDING SIGN	0	N/A
RAPID BUS STOP COLUMN-MOUNTED FLAG SIGN	1	RELOCATE
RAPID BUS STOP PEDESTRIAN LIGHTING POLE	0	N/A
SOLAR PANEL	3	SALVAGE
SOLAR POWER BOX	1	SALVAGE



LOCATION MAP
NOT TO SCALE



SALVAGE PLAN
WEST JACK LONDON BOULEVARD – EASTBOUND

AMMENITY INVENTORY		
DESCRIPTION	QUANTITY	ACTION
RAPID BUS STOP STANDARD BUS SHELTER	1	RELOCATE
ELECTRONIC REAL-TIME INFORMATION SIGN	1	RELOCATE
RAPID BUS STOP BENCH	2	SALVAGE
RAPID BUS STOP TRASH/RECYCLING RECEPTACLE SET	1	RELOCATE
RAPID BUS STOP BICYCLE PARKING RACK	0	N/A
RAPID BUS STOP STANDARD WAYFINDING SIGN	0	N/A
RAPID BUS STOP COLUMN-MOUNTED FLAG SIGN	1	RELOCATE
RAPID BUS STOP PEDESTRIAN LIGHTING POLE	0	N/A
SOLAR PANEL	3	SALVAGE
SOLAR POWER BOX	1	SALVAGE

NOTES

- PRIOR TO REMOVAL ACTIVITIES, CONTRACTOR SHALL PHOTOGRAPH INFRASTRUCTURE TO BE SALVAGED IN SUFFICIENT DETAIL TO DOCUMENT EXISTING CONDITION.
- CONTRACTOR IS RESPONSIBLE FOR CONDITION OF RELOCATED AND SALVAGED MATERIALS. DAMAGED ITEMS WILL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- 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.
- ALL DISCONNECTED ELECTRICAL CONDUCTORS SHALL BE PULLED BACK INTO THE NEAREST PULL BOX AND COILED FOR FUTURE USE.
- GRIND ALL EXISTING BOLTS AND ANCHORS TO A POINT 1" BELOW THE EXISTING SURFACE. FILL WITH EPOXY OR GROUT THAT MATCHES EXISTING SIDEWALK COLOR.
- 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.



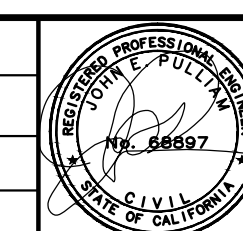
REV.	DATE	DESCRIPTION



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

LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY
NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS
LIVERMORE CALIFORNIA
SALVAGE PLANS – LIVERMORE OUTLETS

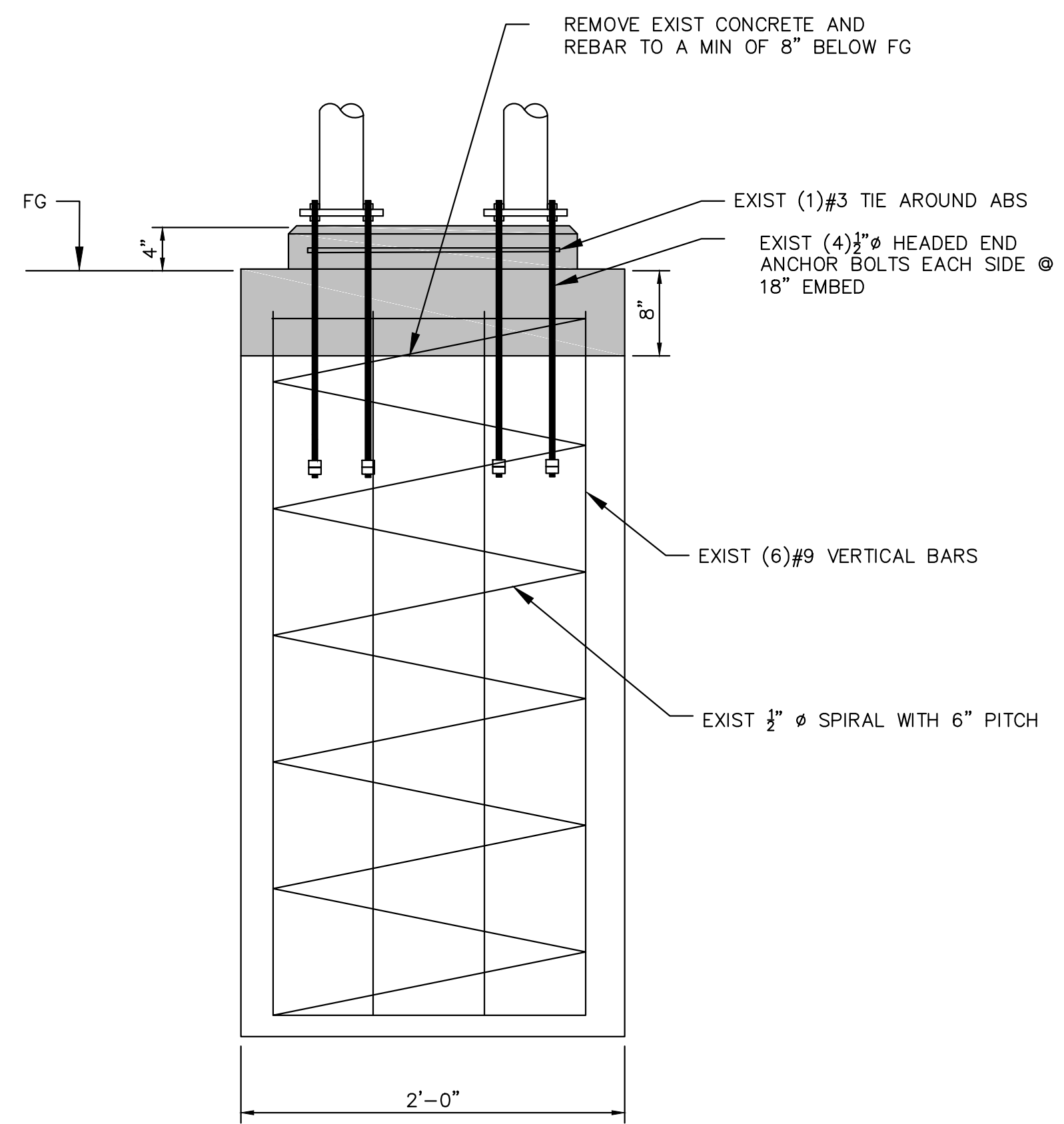
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TRAFFIC ENGINEER: _____



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DATE: 9/7/2017
SCALE: 1"=10'
FILE NAME: DM-02

SHEET
4 of 19



A FOOTING REMOVAL DETAIL
DM-03 NOT TO SCALE



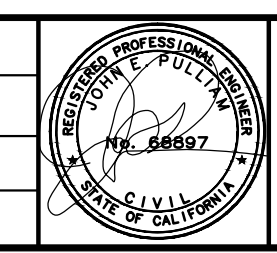
REV.	DATE	DESCRIPTION



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LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY
NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS
LIVERMORE CALIFORNIA
SALVAGE DETAILS

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DEPUTY DIRECTOR: _____
TRAFFIC ENGINEER: _____

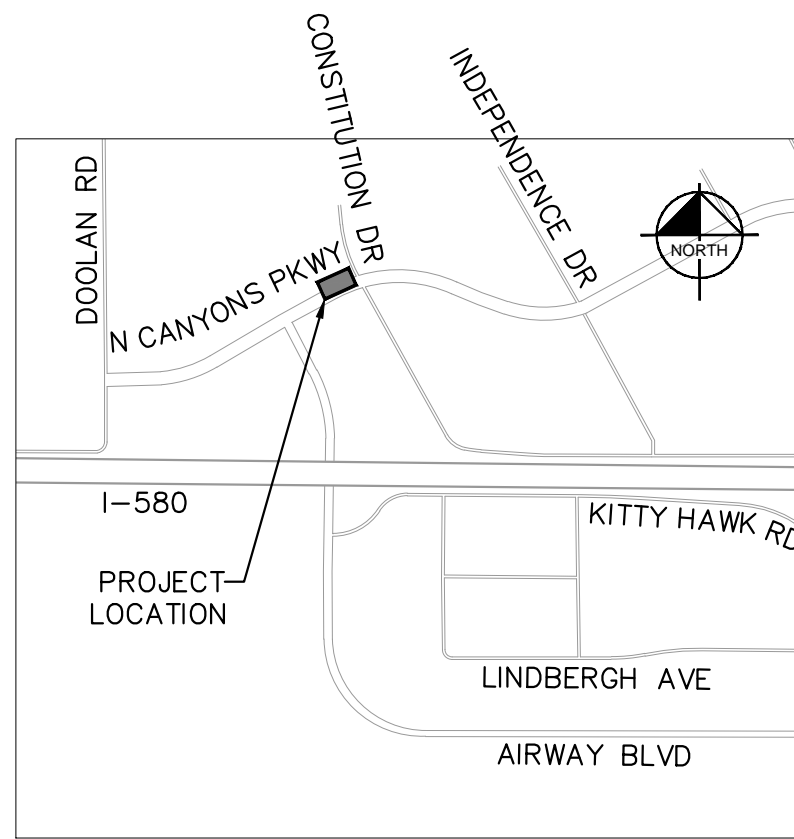


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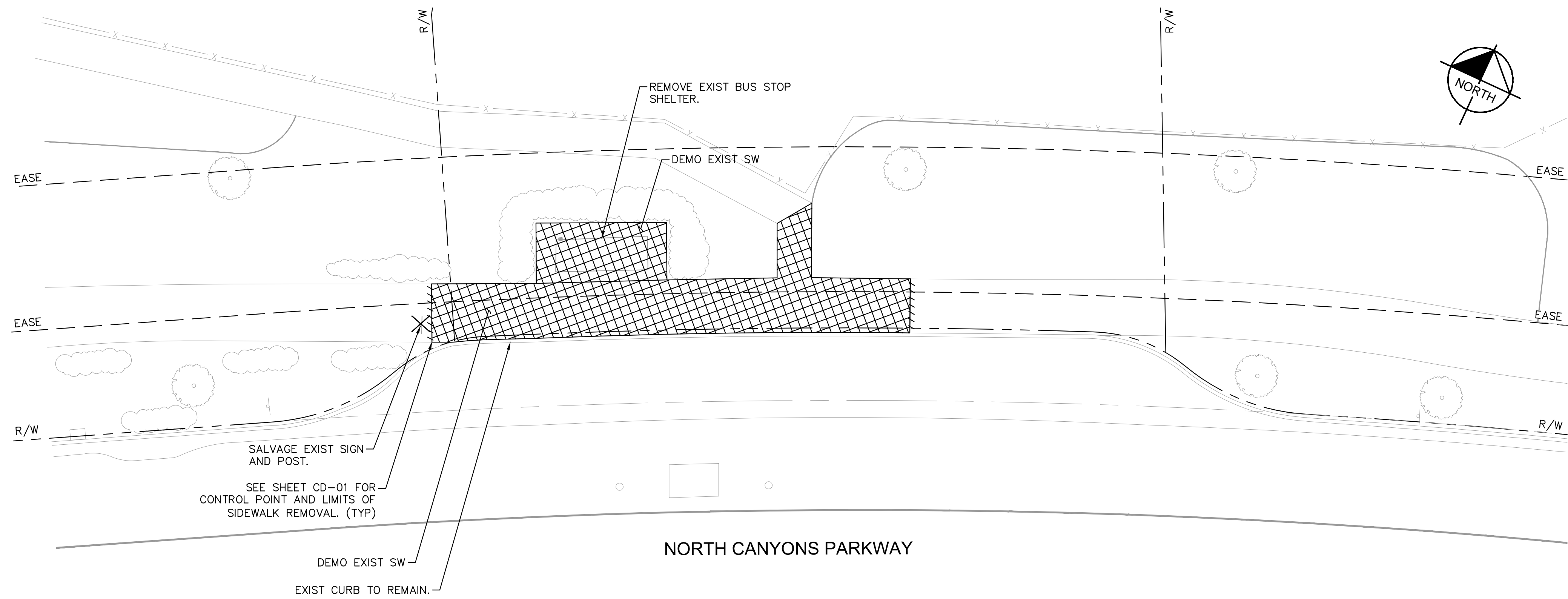
APPROVED:
CHERI SHEETS
CITY ENGINEER
RCE #38751

DATE: 9/7/2017
SCALE: 1"=10'
FILE NAME: DM-03

SHEET
5 of 19

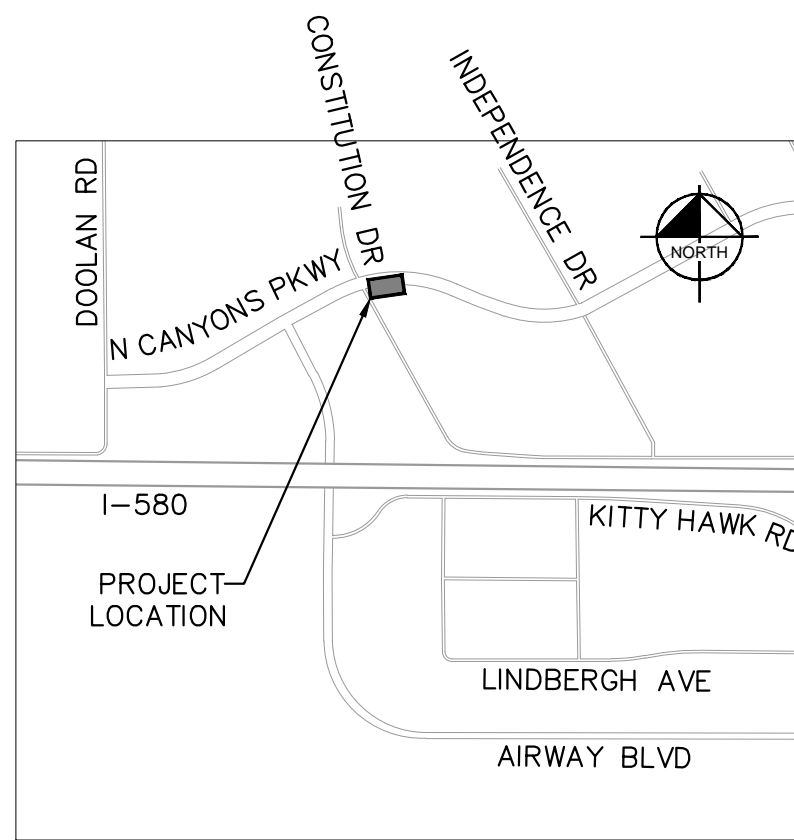


LOCATION MAP
NOT TO SCALE

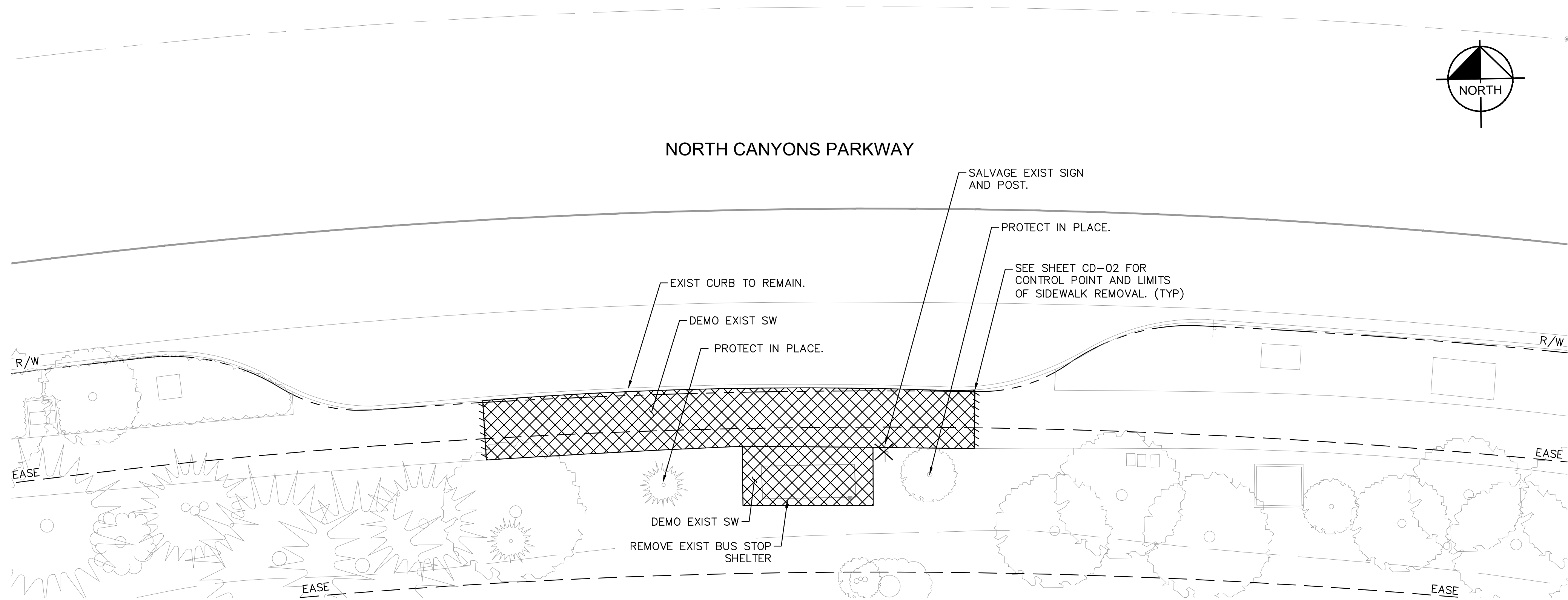


DEMOLITION PLAN
NORTH CANYONS PARKWAY AND CONSTITUTION DRIVE – WESTBOUND

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



LOCATION MAP
NOT TO SCALE



DEMOLITION PLAN
NORTH CANYONS PARKWAY AND CONSTITUTION DRIVE – EASTBOUND

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

NOTES

1. PRIOR TO REMOVAL ACTIVITIES, CONTRACTOR SHALL PHOTOGRAPH INFRASTRUCTURE TO BE REMOVED IN SUFFICIENT DETAIL TO DOCUMENT EXISTING CONDITION.
2. CONTRACTOR IS RESPONSIBLE FOR CONDITION OF SALVAGED MATERIALS. DAMAGED ITEMS WILL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
3. ALL DISCONNECTED ELECTRICAL CONDUCTORS SHALL BE PULLED BACK INTO THE NEAREST PULL BOX AND COILED FOR FUTURE USE.



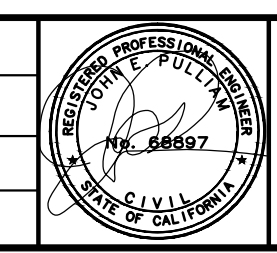
REV.	DATE	DESCRIPTION



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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: _____
CHECKED: _____
DEPUTY DIRECTOR: _____
TRAFFIC ENGINEER: _____

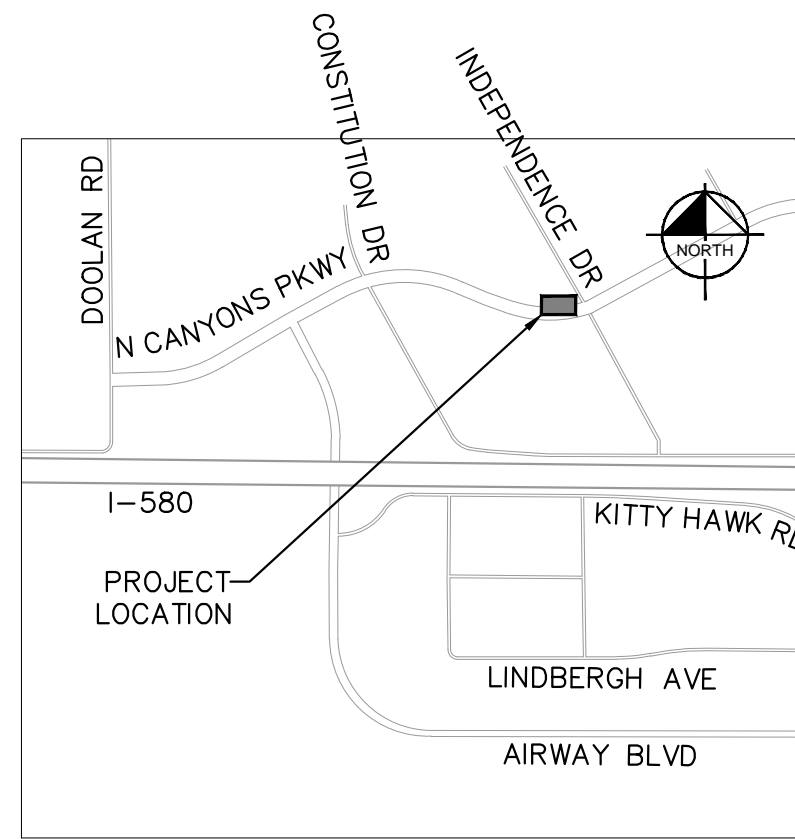


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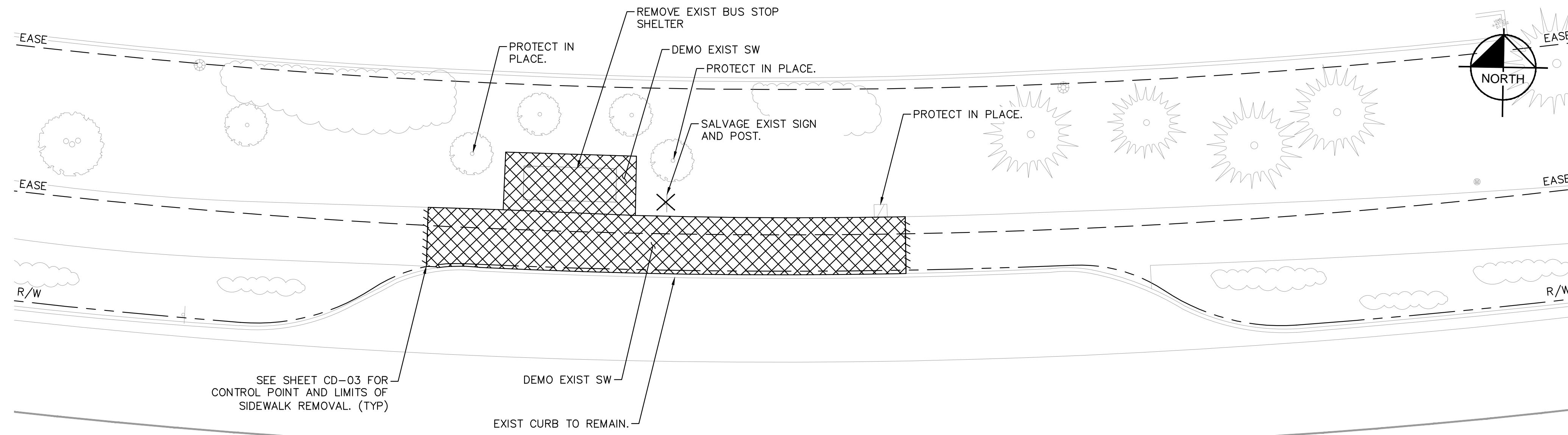
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CHERI SHEETS
CITY ENGINEER
RCE #38751

DATE: 9/7/2017
SCALE: 1"=10'
FILE NAME: DM-04

SHEET
6 of 19



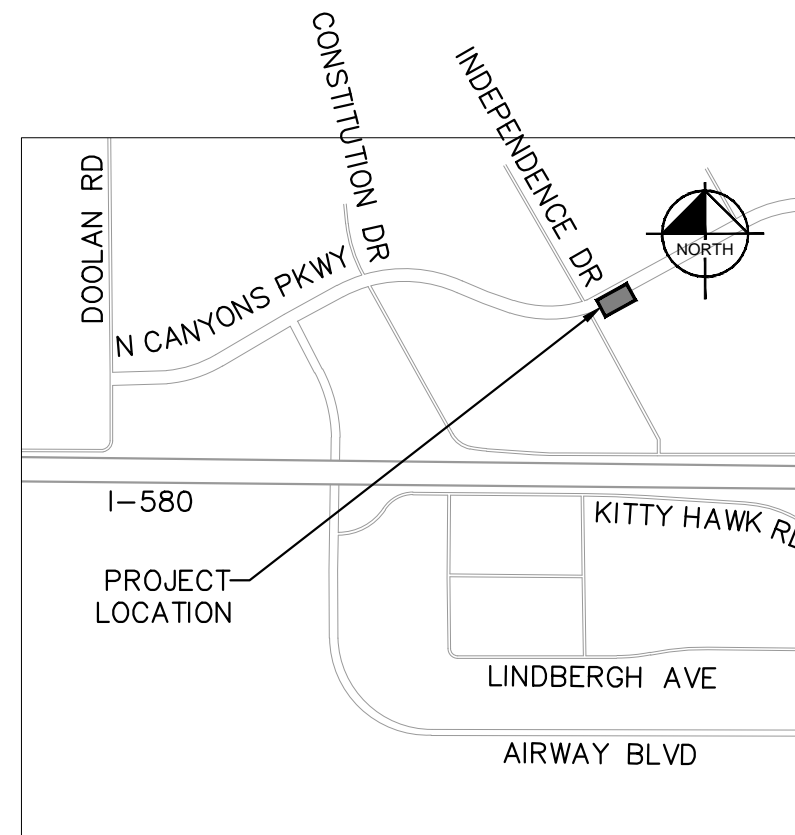
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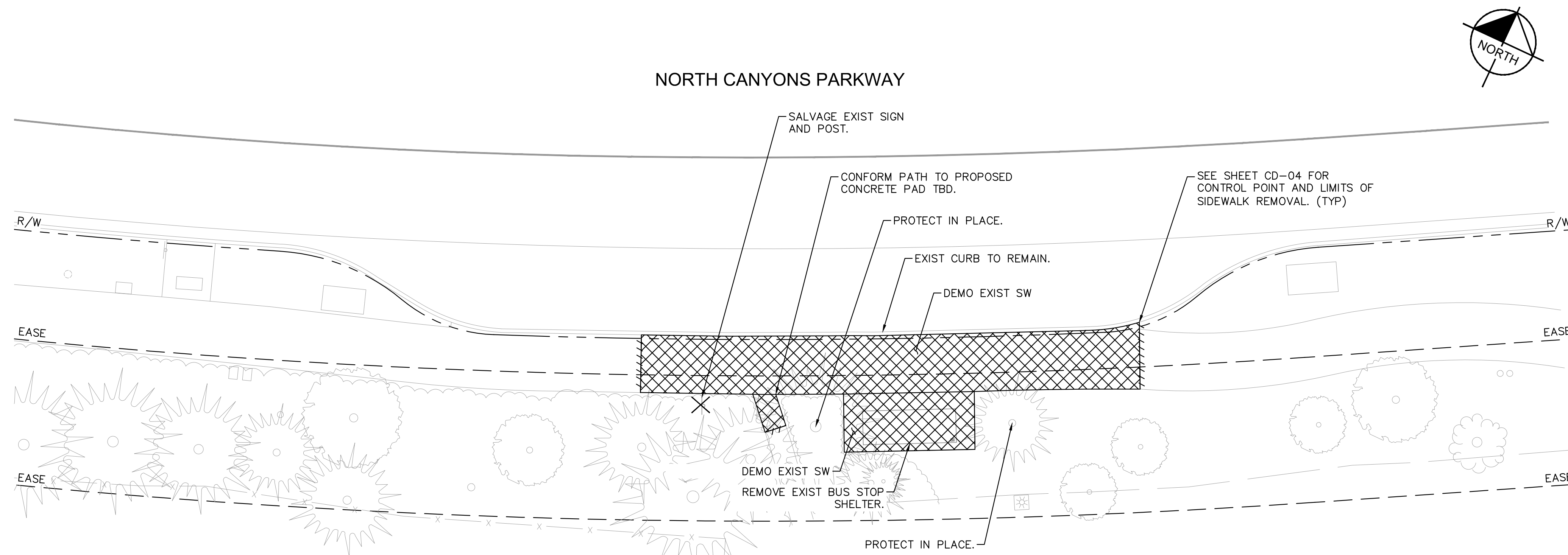
NORTH CANYONS PARKWAY

DEMOLITION PLAN
NORTH CANYONS PARKWAY AND INDEPENDENCE DRIVE – WESTBOUND

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



LOCATION MAP
NOT TO SCALE



NORTH CANYONS PARKWAY

DEMOLITION PLAN
NORTH CANYONS PARKWAY AND INDEPENDENCE DRIVE – EASTBOUND

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

NOTES

1. PRIOR TO REMOVAL ACTIVITIES, CONTRACTOR SHALL PHOTOGRAPH INFRASTRUCTURE TO BE REMOVED IN SUFFICIENT DETAIL TO DOCUMENT EXISTING CONDITION.
2. CONTRACTOR IS RESPONSIBLE FOR CONDITION OF SALVAGED MATERIALS. DAMAGED ITEMS WILL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
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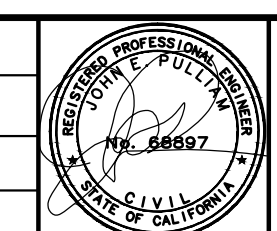
REV.	DATE	DESCRIPTION



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

LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY
NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS
LIVERMORE CALIFORNIA

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CHECKED: _____
DEPUTY DIRECTOR: _____
TRAFFIC ENGINEER: _____

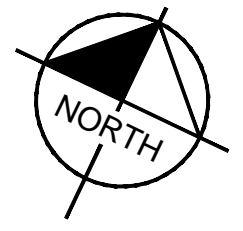
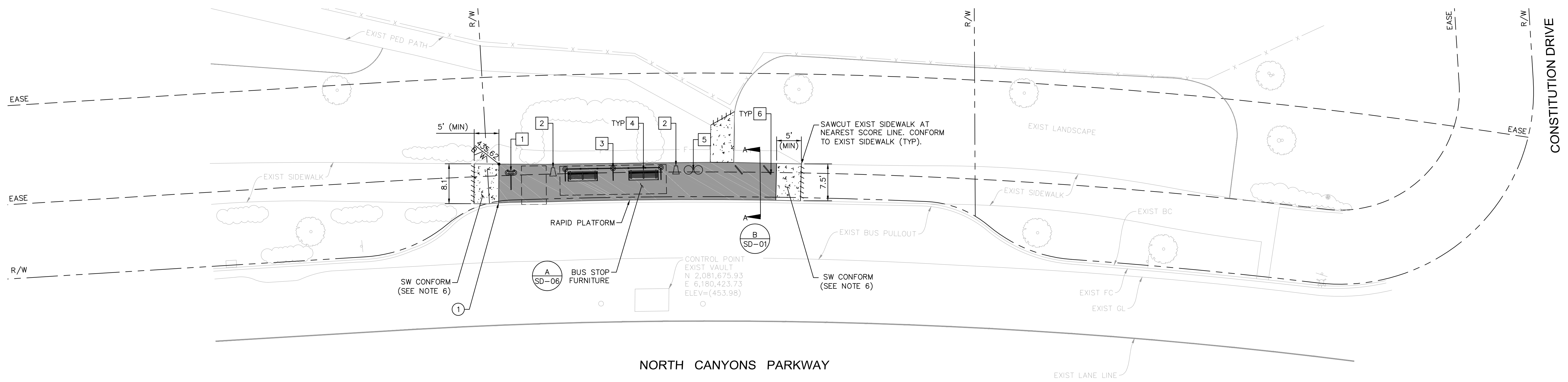


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CITY ENGINEER
RCE #38751

DATE: 9/7/2017
SCALE: 1"=10'
FILE NAME: DM-05

SHEET
7 of 19



NOTES

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.
3. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATIONS AND DEPTHS OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION WORK.
4. NO TEMPORARY BUS STOP IS NECESSARY AT THIS LOCATION.
5. CONTRACTOR TO REDIRECT BUS PATRONS TO EXISTING NEARBY BUS STOP. SEE SECTION 7 OF THE TECHNICAL SPECIFICATIONS FOR DETAILS. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION MAINTENANCE AND REMOVAL OF TEMPORARY BUS STOP DIRECTIONAL SIGNAGE, BARRICADES, PAVEMENT MARKINGS, AND NO PARKING SIGNS PER THE SPECIAL PREVISIONS.
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
1	2,081,678.12	6,180,387.88	(435.50)	(435.62)

LEGEND

4" PCC SIDEWALK

 4" PCC PLATFORM



REV.	DATE	DESCRIPTION



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

LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY
 NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS
 LIVERMORE NORTH CANYONS PARKWAY AND CONSTITUTION DRIVE - WESTBOUND CALIFORNIA

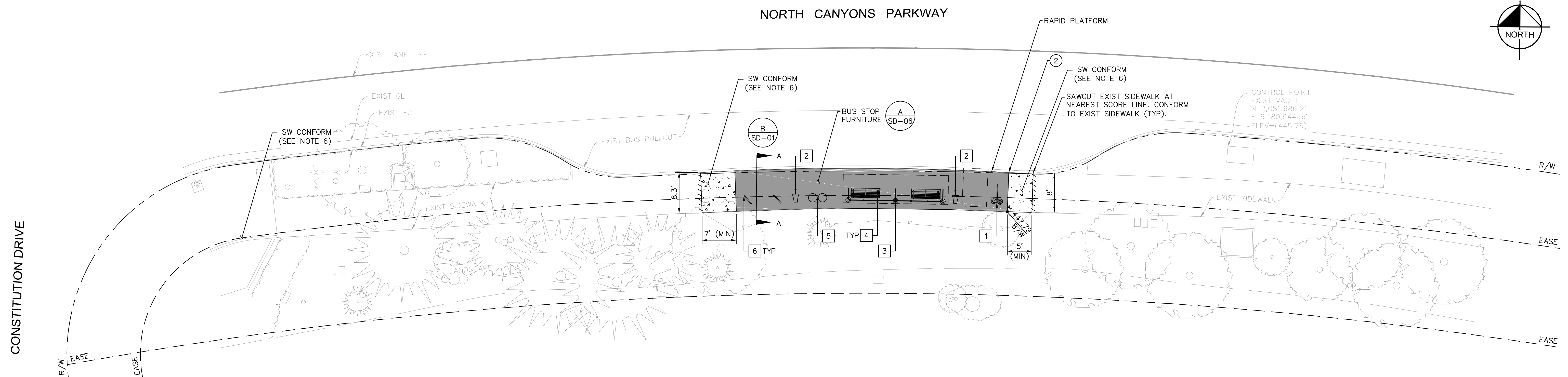
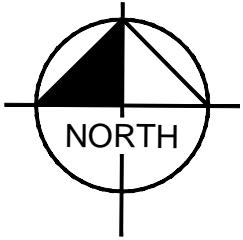
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 CHECKED: _____
 DEPUTY DIRECTOR: _____
 TRAFFIC ENGINEER: _____



APPROVED: _____
 CHERI SHEETS
 CITY ENGINEER
 RCE #38751

DATE: 9/7/2017
 SCALE: 1"=10'
 FILE NAME: CD-01

SHEET
 8 OF 19



NOTES

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 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
2	2,081,680.47	6,180,899.85	(447.67)	(447.79)

LEGEND

4" PCC SIDEWALK	
4" PCC PLATFORM	



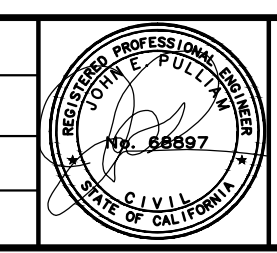
REV.	DATE	DESCRIPTION



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LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY
 NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS
 LIVERMORE CALIFORNIA
 NORTH CANYONS PARKWAY AND CONSTITUTION DRIVE - EASTBOUND

DRAWN: _____
 CHECKED: _____
 DEPUTY DIRECTOR: _____
 TRAFFIC ENGINEER: _____

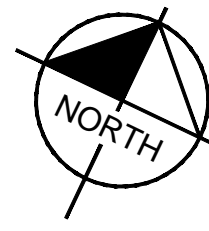
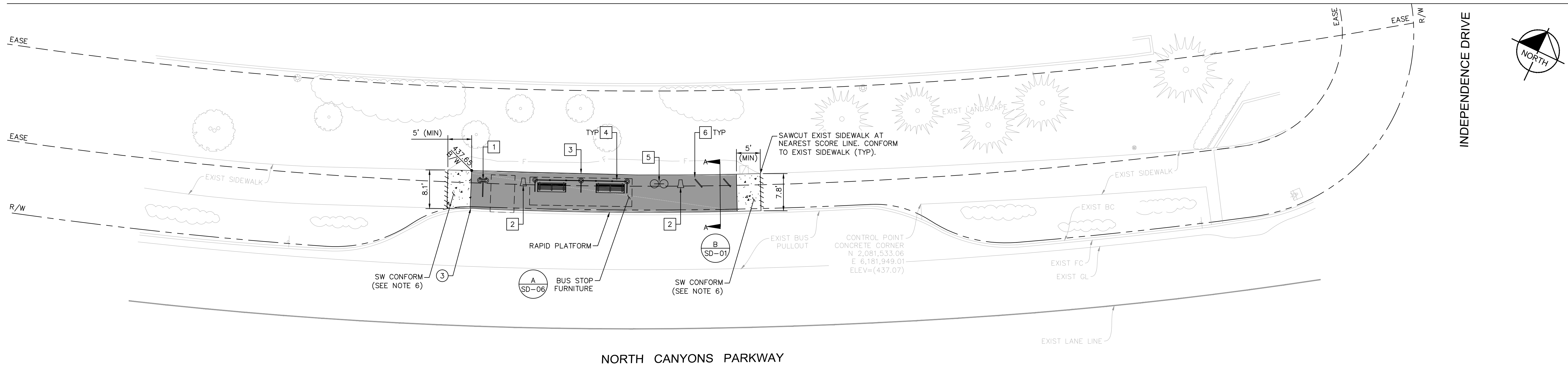


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 CITY ENGINEER
 RCE #38751

DATE: 9/7/2017
 SCALE: 1"=10'
 FILE NAME: CD-02

SHEET
 9 OF 19



NOTES

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.
3. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATIONS AND DEPTHS OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION WORK.
4. NO TEMPORARY BUS STOP IS NECESSARY AT THIS LOCATION.
5. CONTRACTOR TO REDIRECT BUS PATRONS TO EXISTING NEARBY BUS STOP. SEE SECTION 7 OF THE TECHNICAL SPECIFICATIONS FOR DETAILS. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION MAINTENANCE AND REMOVAL OF TEMPORARY BUS STOP DIRECTIONAL SIGNAGE, BARRICADES, PAVEMENT MARKINGS, AND NO PARKING SIGNS PER THE SPECIAL PREVISIONS.
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.

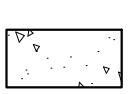
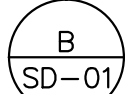

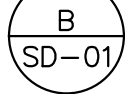
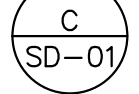
STANDARD STOP

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)

LEGEND

 4" PCC SIDEWALK 
 4" PCC PLATFORM  



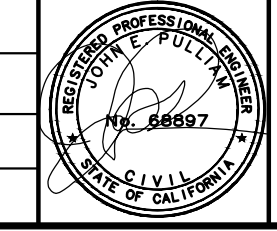
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LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY
 NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS
 LIVERMORE CALIFORNIA

DRAWN: _____
 CHECKED: _____
 DEPUTY DIRECTOR: _____
 TRAFFIC ENGINEER: _____



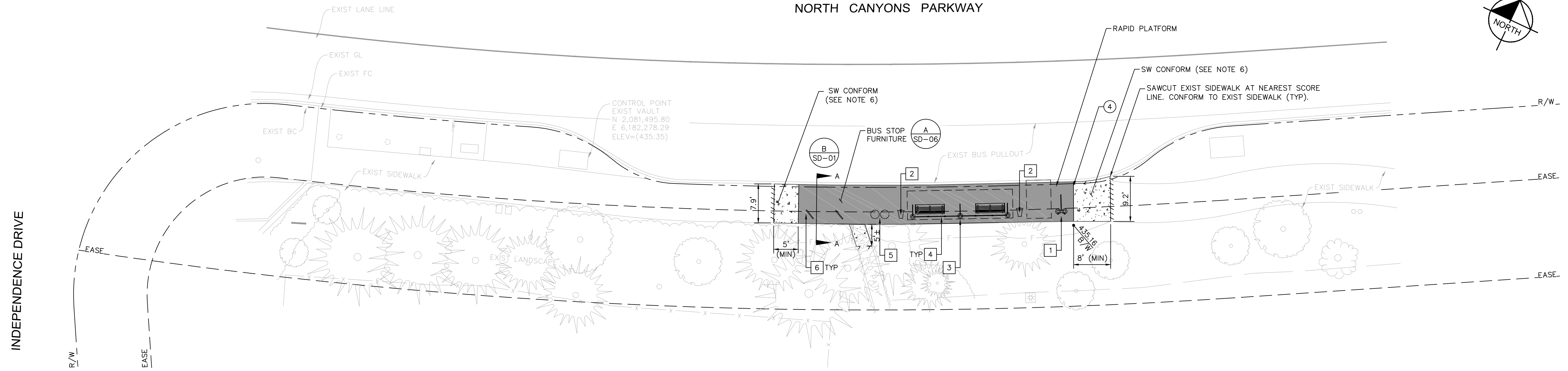
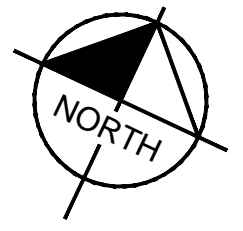
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 CHERI SHEETS
 CITY ENGINEER
 RCE #38751

DATE: 9/7/2017
 SCALE: 1"=10'
 FILE NAME: CD-03

SHEET
 10 of 19

NORTH CANYONS PARKWAY



NOTES

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 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	EX TC ELEV	PROPOSED B/W ELEV OFFSET FROM BC
4	2,081,532.63	6,182,370.20	(435.04)	(435.16)

LEGEND

	4" PCC SIDEWALK	
	4" PCC PLATFORM	



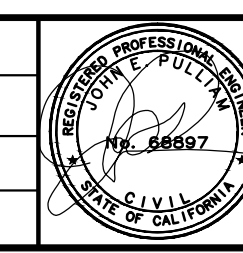
REV.	DATE	DESCRIPTION



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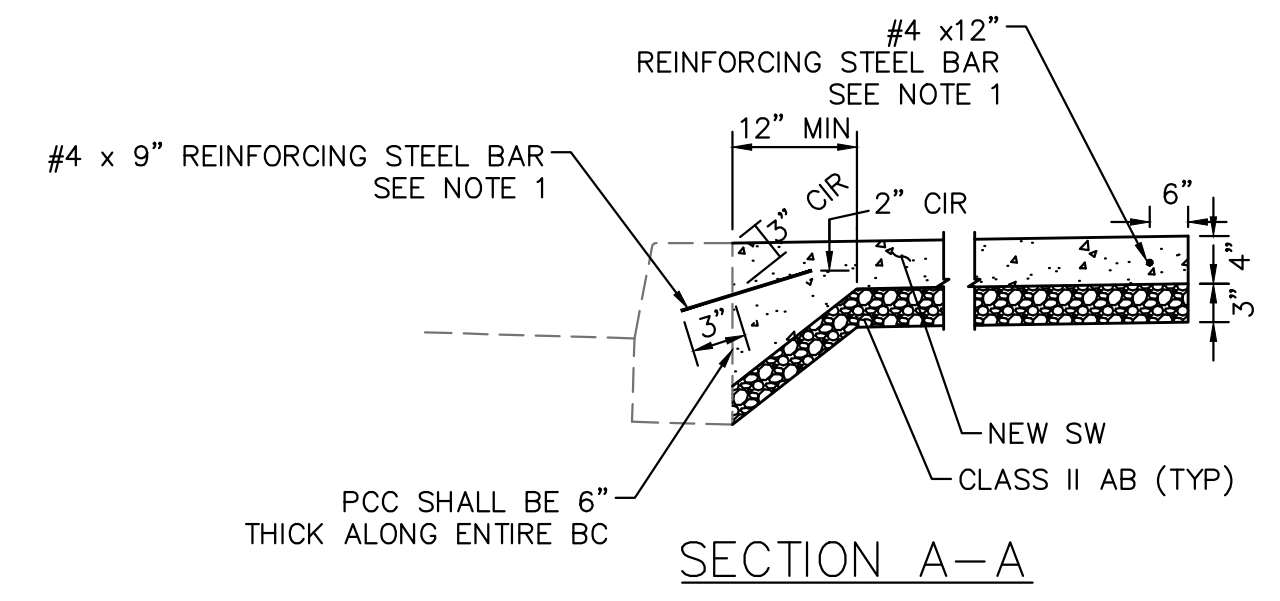
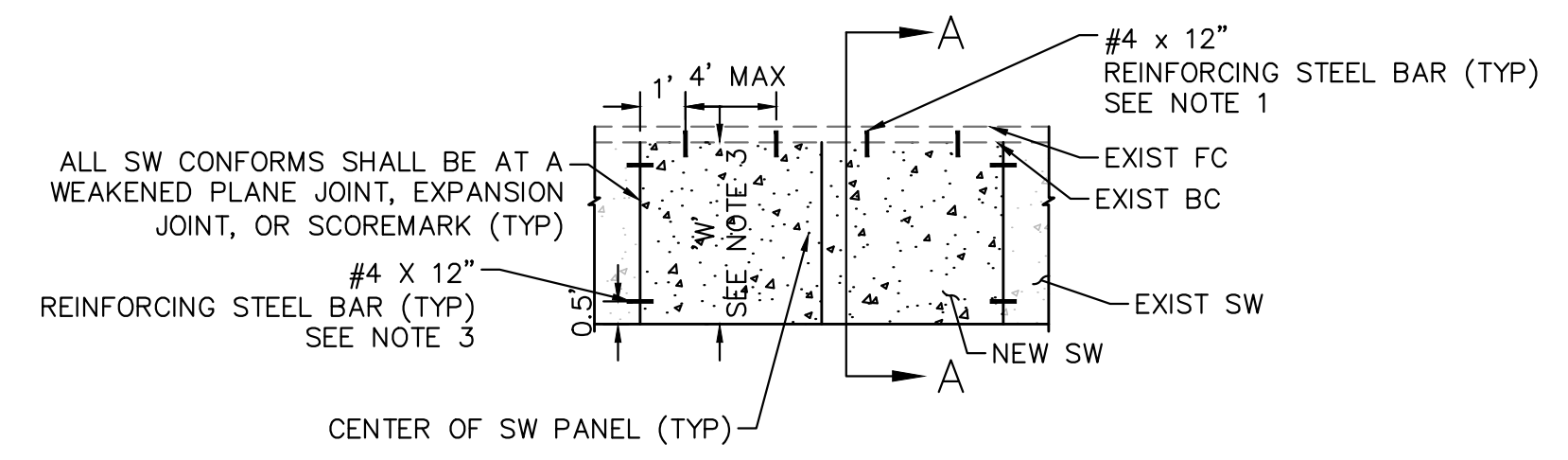
LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY
 NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS
 LIVERMORE, CALIFORNIA

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 TRAFFIC ENGINEER: _____

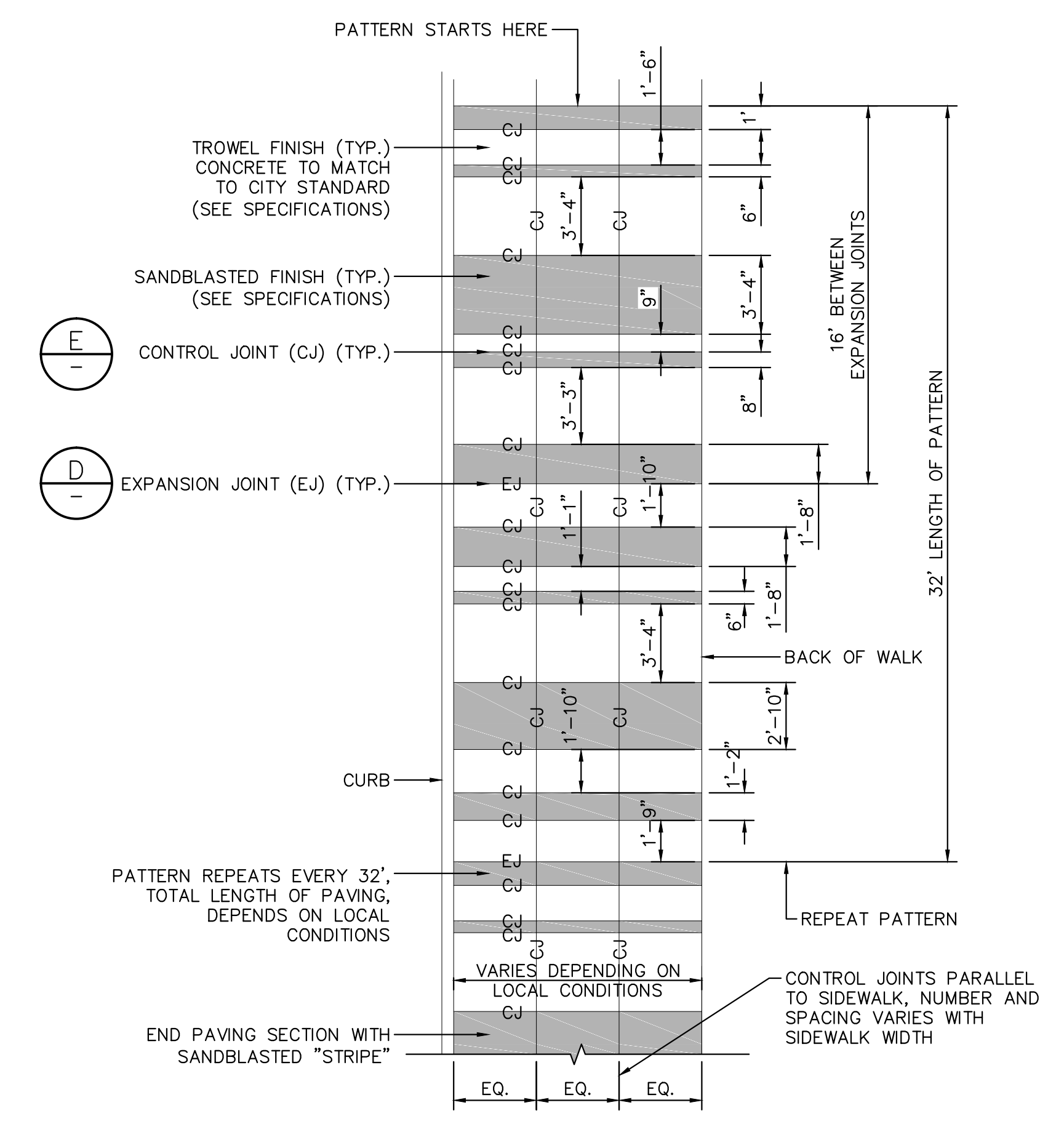


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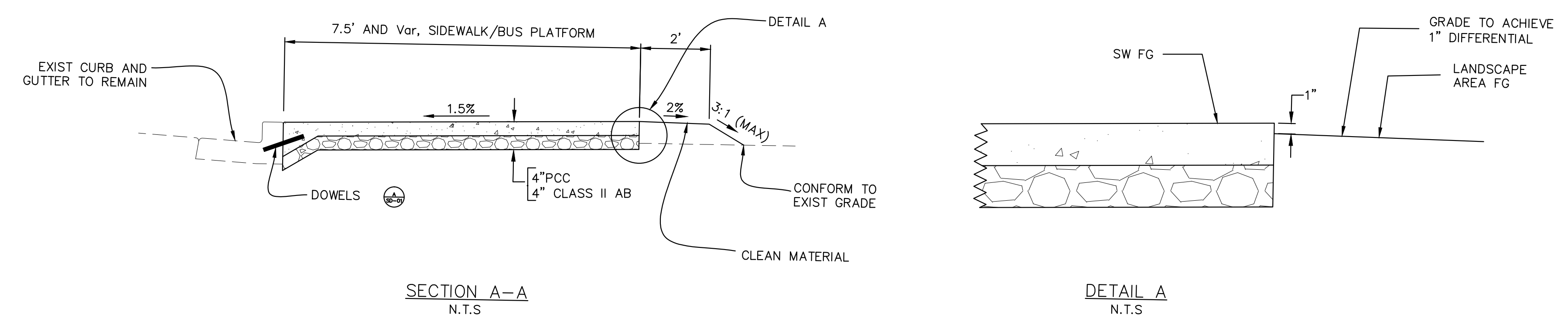
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CHERI SHEETS CITY ENGINEER RCE #38751	SCALE: 1"=10'	11 of 19
FILE NAME: CD-04		



SECTION A-A
DOWELING DETAIL FOR NEW SIDEWALK
CONNECTING TO EXISTING CURB AND SIDEWALK
SD-01 NOT TO SCALE



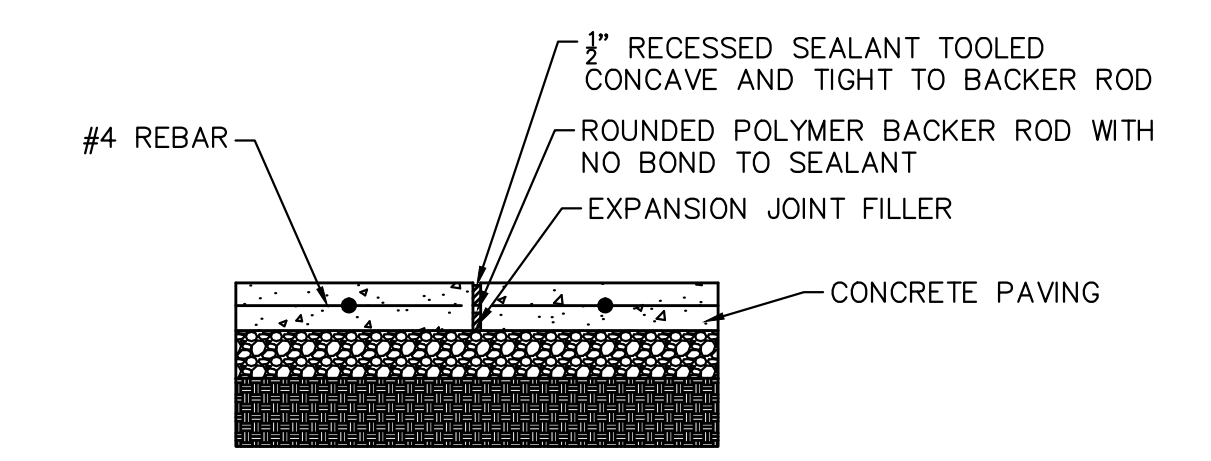
PLATFORM PAVING PATTERN
SD-01 NOT TO SCALE



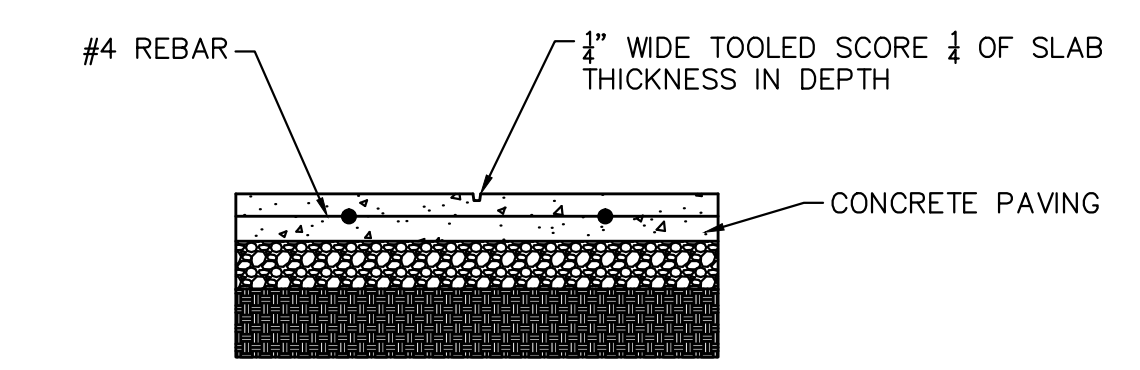
SECTION A-A
N.T.S.

DETAIL A
N.T.S.

PLATFORM/SIDEWALK SECTION
SD-01 NOT TO SCALE



CONCRETE EXPANSION JOINT (EJ)
SD-01 NOT TO SCALE



CONCRETE CONTROL JOINT (CJ)
SD-01 NOT TO SCALE

GENERAL NOTES (THIS SHEET ONLY)

1. DOWELS SHALL BE PLACED IN A 3/4" DIAMETER DRILLED HOLE FILLED WITH 1:1 SAND CEMENT GROUT.
2. IF W>5' ADD ADDITIONAL DOWELING, 4' MAX SPACING BETWEEN DOWELS.



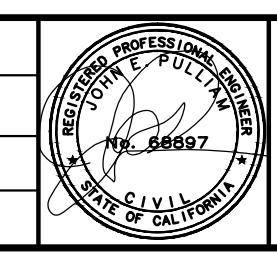
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NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS
LIVERMORE CALIFORNIA

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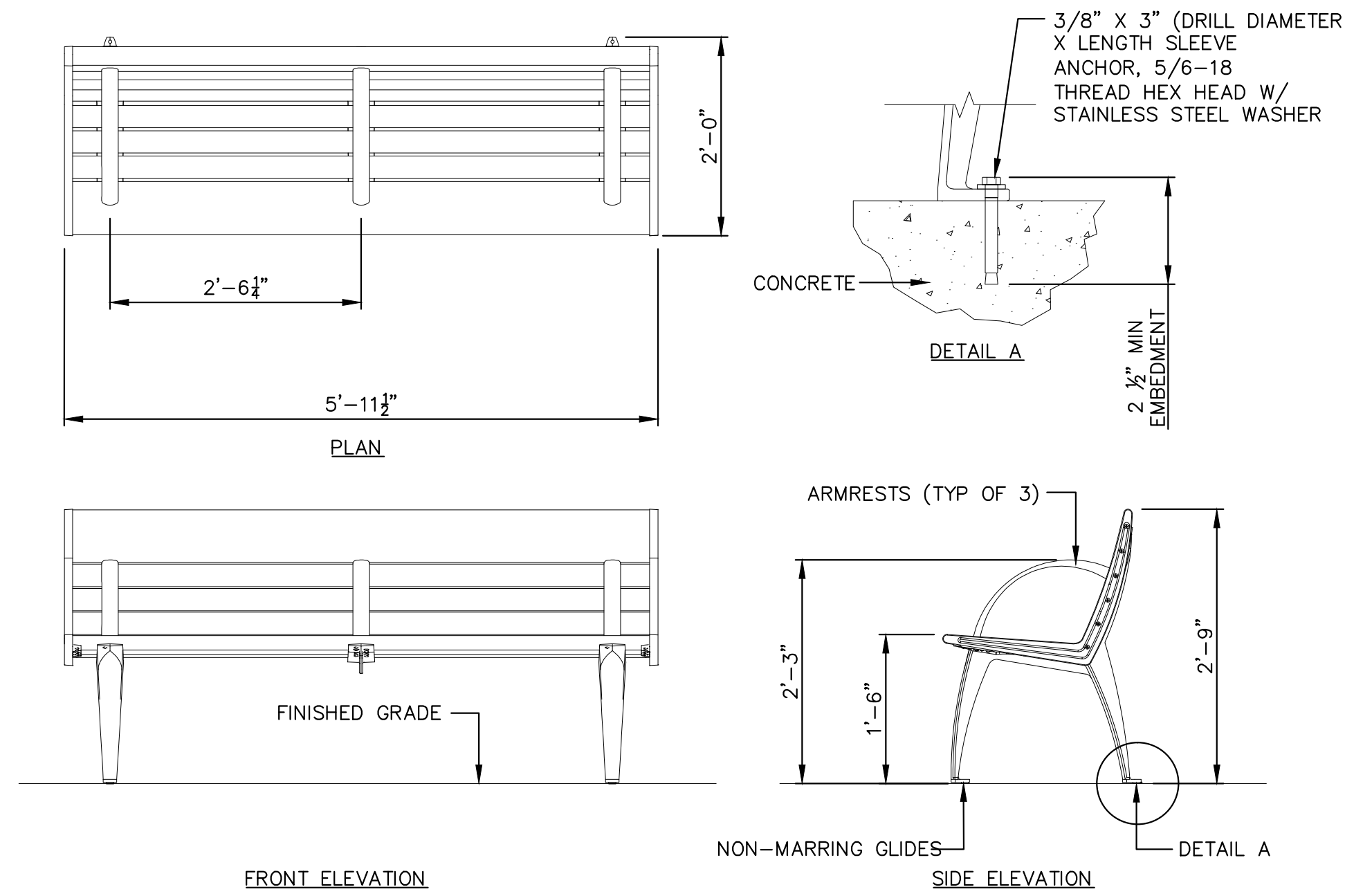
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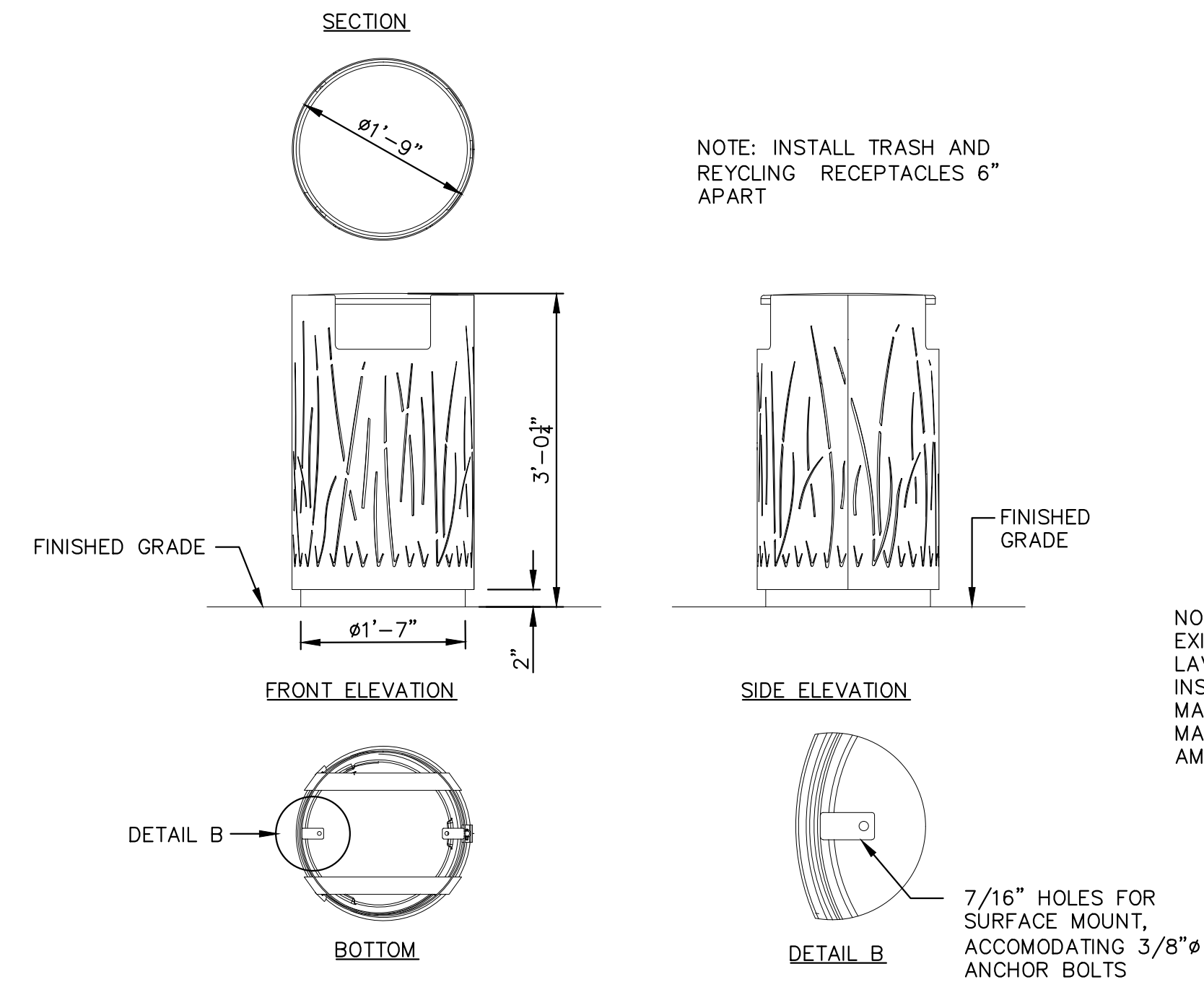
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SCALE: N/A
FILE NAME: SD-01

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NOTE: INSTALL BENCH LEVEL AND PLUMB. IF THE MOUNTING SURFACE IS NOT LEVEL, USE STAINLESS SHIMS OR WASHERS TO LEVEL BENCH BEFORE TIGHTENING ANCHORS. SEAT HEIGHT ALONG LENGTH OF BENCH SHALL NOT EXCEED 1'-7".



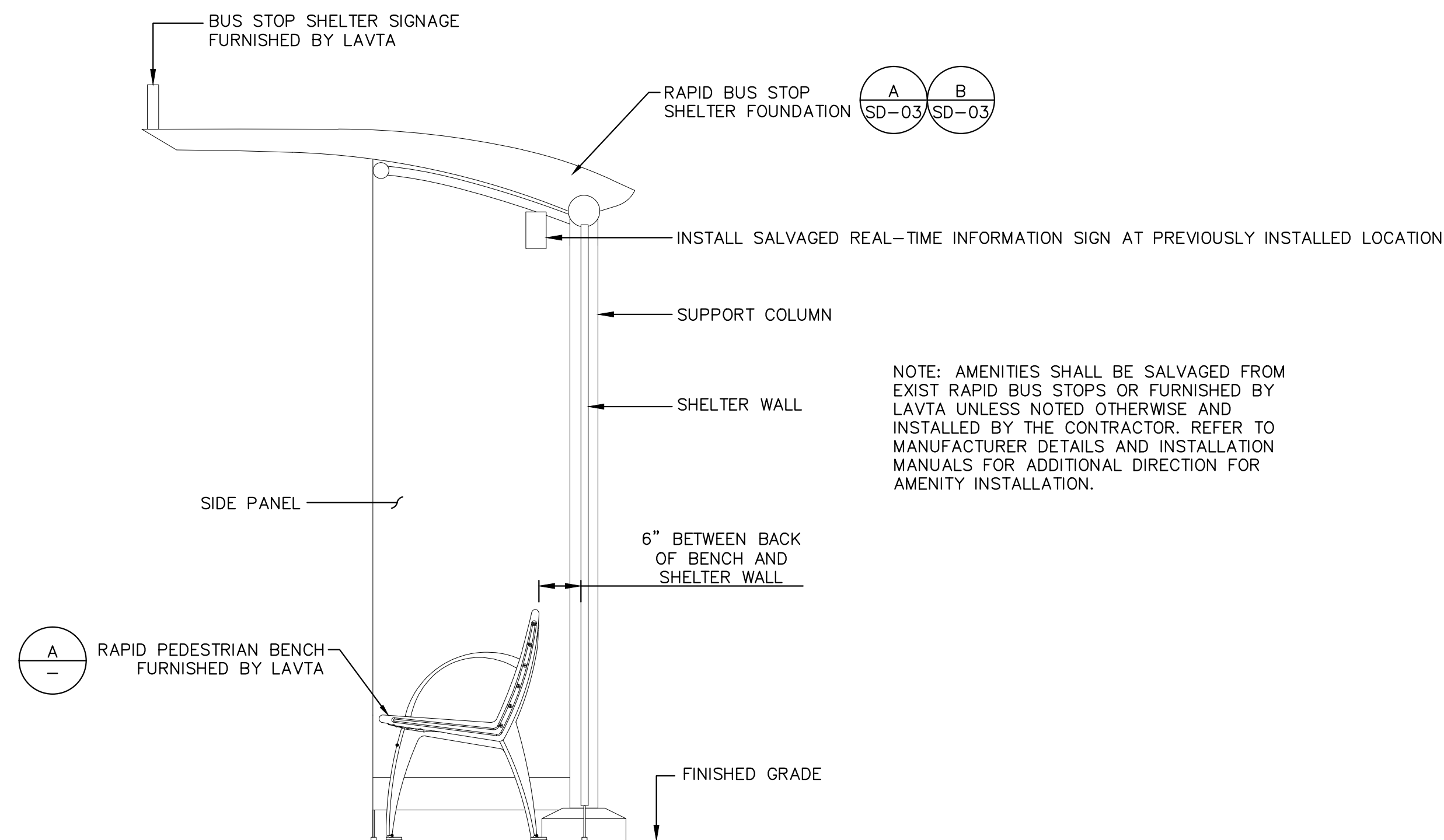
A RAPID PEDESTRIAN BENCH INSTALLATION DETAIL
SD-02 SCALE: 3/4" = 1'



NOTE: INSTALL TRASH AND RECYCLING RECEPTACLES 6" APART

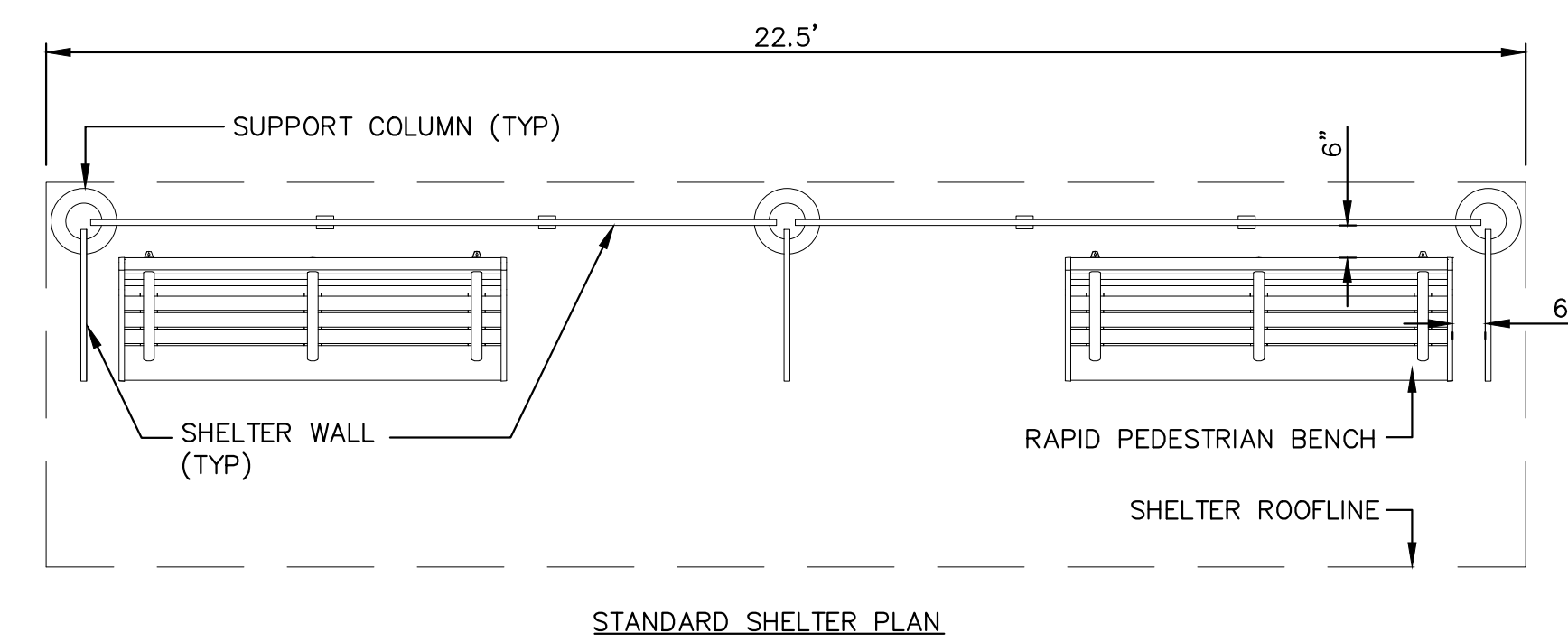
NOTE: AMENITIES SHALL BE SALVAGED FROM EXIST RAPID BUS STOPS OR FURNISHED BY LAVTA UNLESS NOTED OTHERWISE AND INSTALLED BY THE CONTRACTOR. REFER TO MANUFACTURER DETAILS AND INSTALLATION MANUALS FOR ADDITIONAL DIRECTION FOR AMENITY INSTALLATION.

B RAPID TRASH AND RECYCLING RECEPTACLES INSTALLATION DETAIL (SET OF TWO RECEPTACLES)
SD-02 SCALE: 3/4" = 1'



NOTE: AMENITIES SHALL BE SALVAGED FROM EXIST RAPID BUS STOPS OR FURNISHED BY LAVTA UNLESS NOTED OTHERWISE AND INSTALLED BY THE CONTRACTOR. REFER TO MANUFACTURER DETAILS AND INSTALLATION MANUALS FOR ADDITIONAL DIRECTION FOR AMENITY INSTALLATION.

C RAPID BUS STOP SHELTER INSTALLATION DETAIL - SECTION
SD-02 SCALE: 3/4" = 1'



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

D RAPID BUS STOP SHELTER INSTALLATION DETAIL - PLAN
SD-02 SCALE: 3/8" = 1'



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NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS
RAPID BUS STOP FURNITURE DETAILS
CALIFORNIA

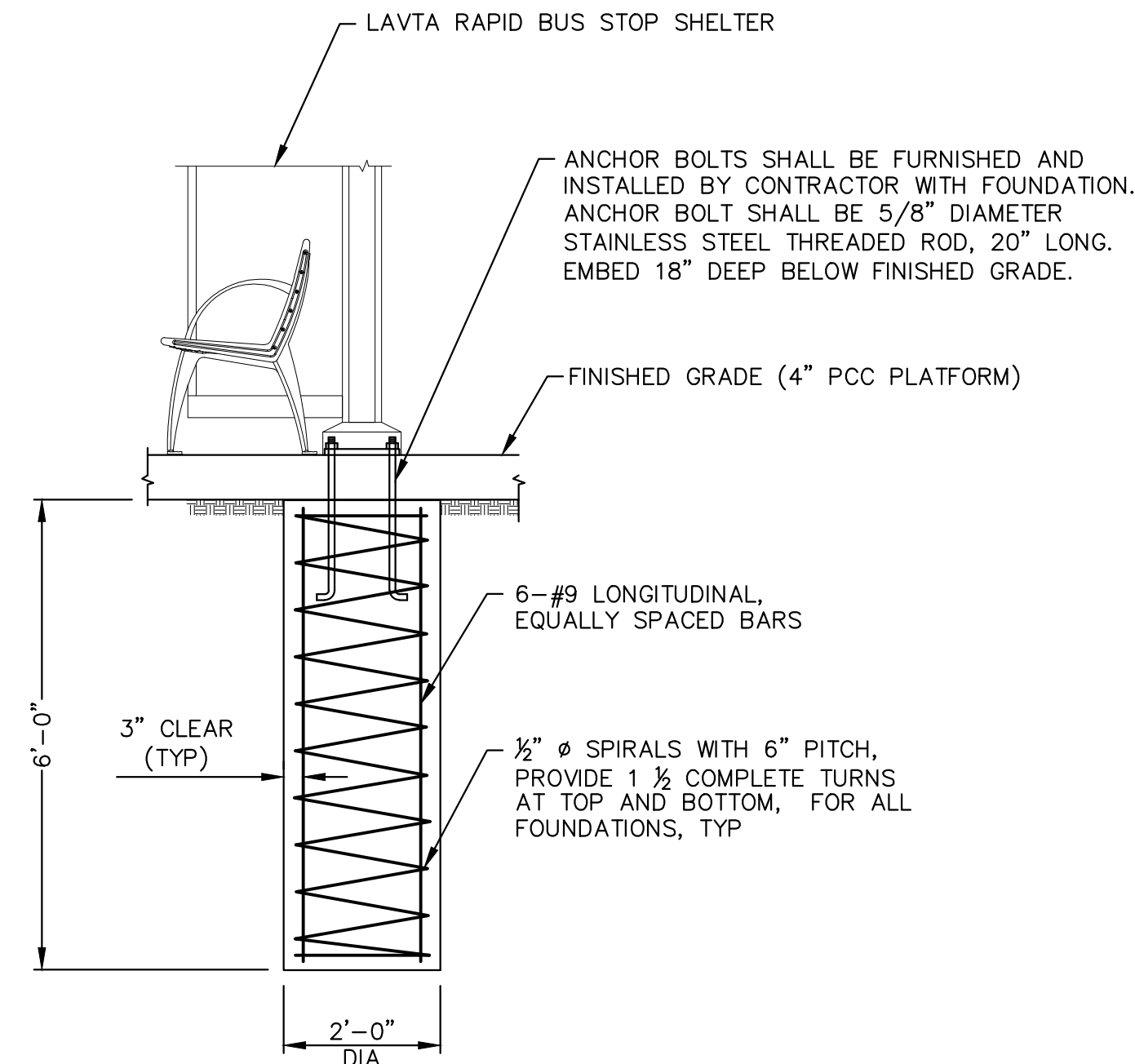
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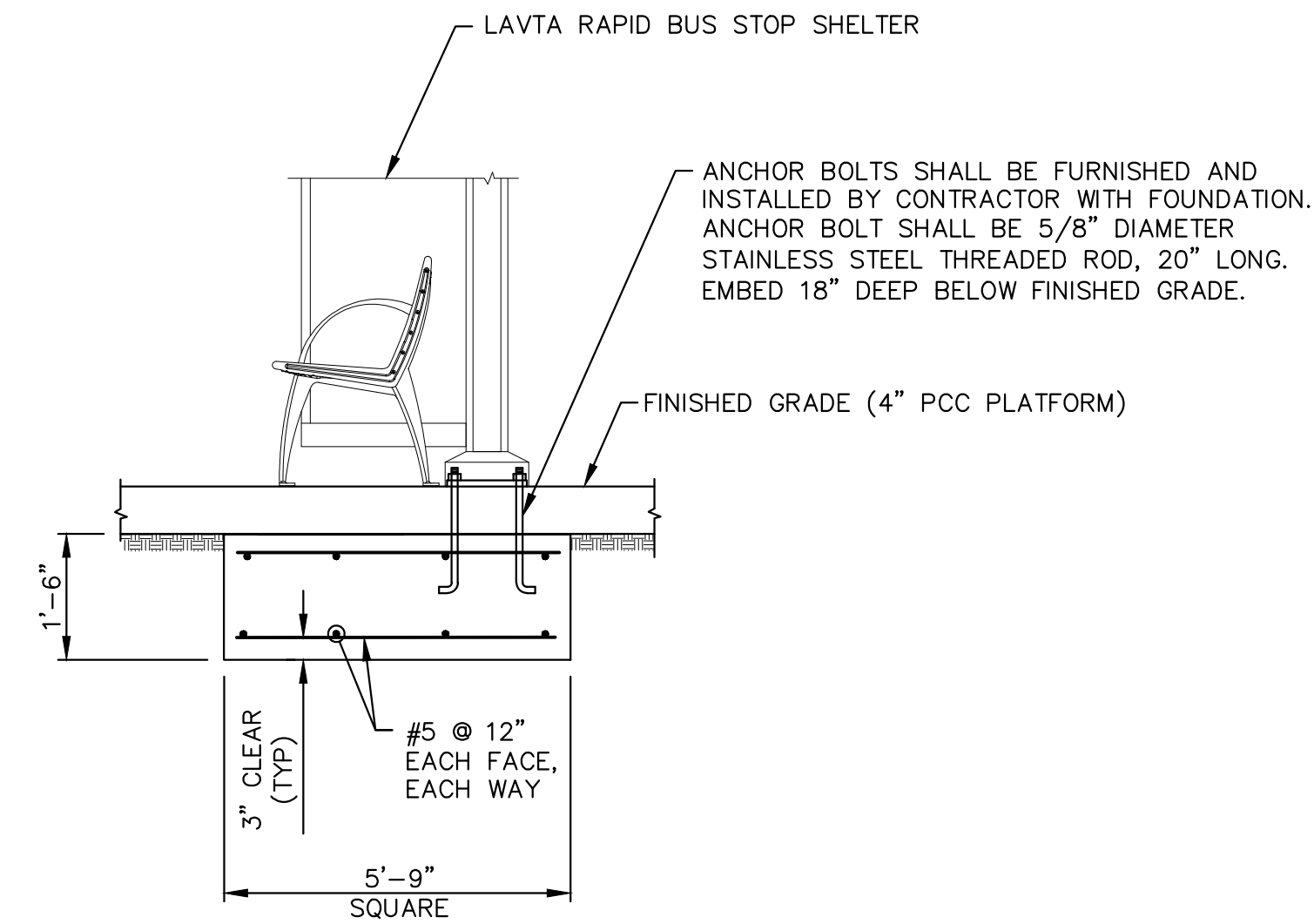
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RCE #38751

DATE: 9/7/2017
SCALE: N/A
FILE NAME: SD-02

SHEET
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A RAPID BUS STOP SHELTER FOUNDATION
SD-03 NOT TO SCALE



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

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 S_s = 1.63
 SPECTRAL RESPONSE ACCELERATION S₁ = 0.60
 SITE COEFFICIENT F_o = 1.0
 SITE COEFFICIENT F_v = 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) F_y=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.

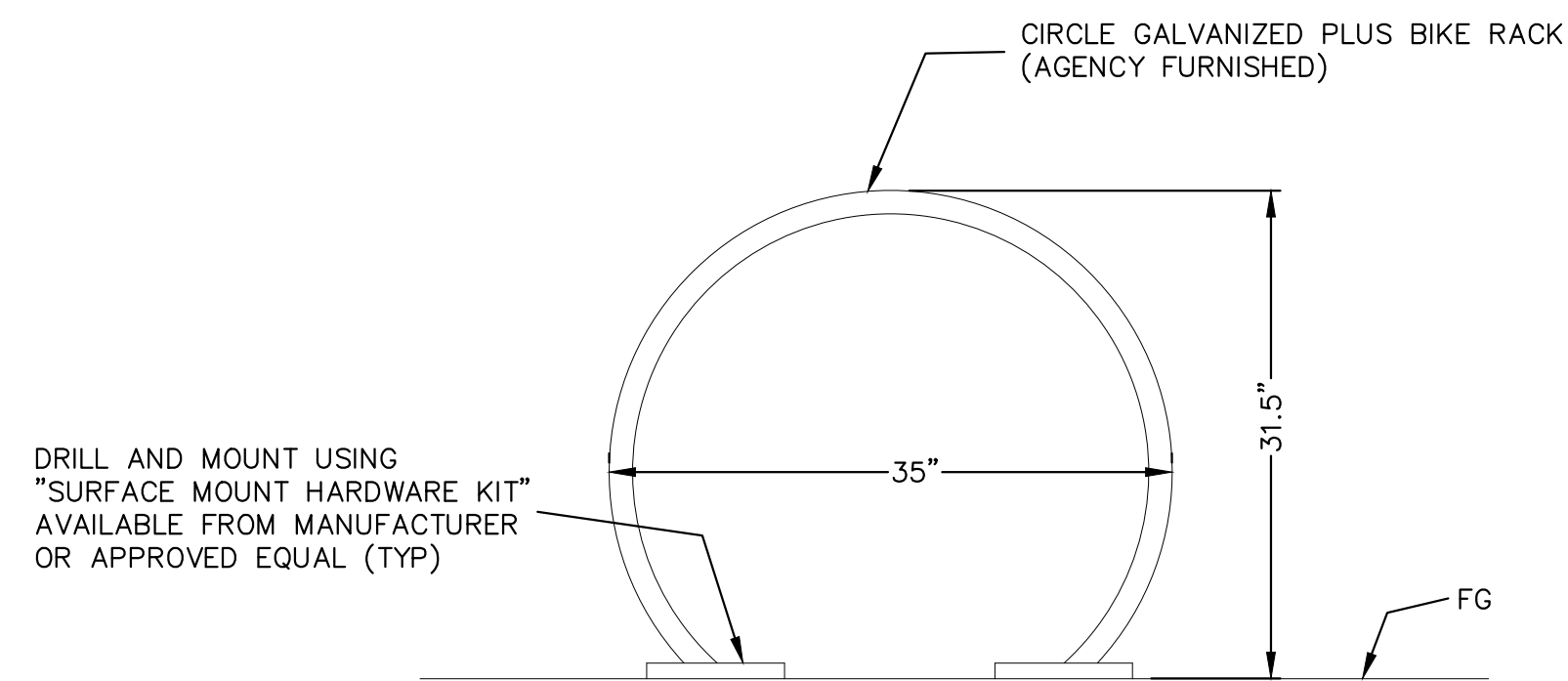
THE CONTRACTOR SHALL SUBMIT EACH INSTANCE OF MODIFICATION FROM DEEP FOUNDATION TO SPREAD FOOTING AND EACH LOCATION SHALL NOT BE DEEMED AS A GENERAL ACCEPTANCE OF THE SPREAD FOOTING.

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/CONSULTANT 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.



C RAPID BICYCLE PARKING RACK
SD-03 NOT TO SCALE

INSPECTION OF CONCRETE CONSTRUCTION (2016 CBC TABLE 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)



<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	REV.	DATE	DESCRIPTION											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 RAPID BUS STOP SHELTER FOUNDATION DETAILS CALIFORNIA	DRAWN: _____ CHECKED: _____ DEPUTY DIRECTOR: _____ TRAFFIC ENGINEER: _____		Kimley»Horn © KIMLEY-HORN AND ASSOCIATES, INC. 4637 CHABOT DR., STE. 300 PLEASANTON, CA 94588 PHONE: 925-366-4840 WWW.KIMLEY-HORN.COM	APPROVED: _____ DATE: 9/7/2017 SCALE: N/A FILE NAME: SD-03	SHEET 14 of 19
REV.	DATE	DESCRIPTION																		

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 3/4"x3/4" 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 1'-0" 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

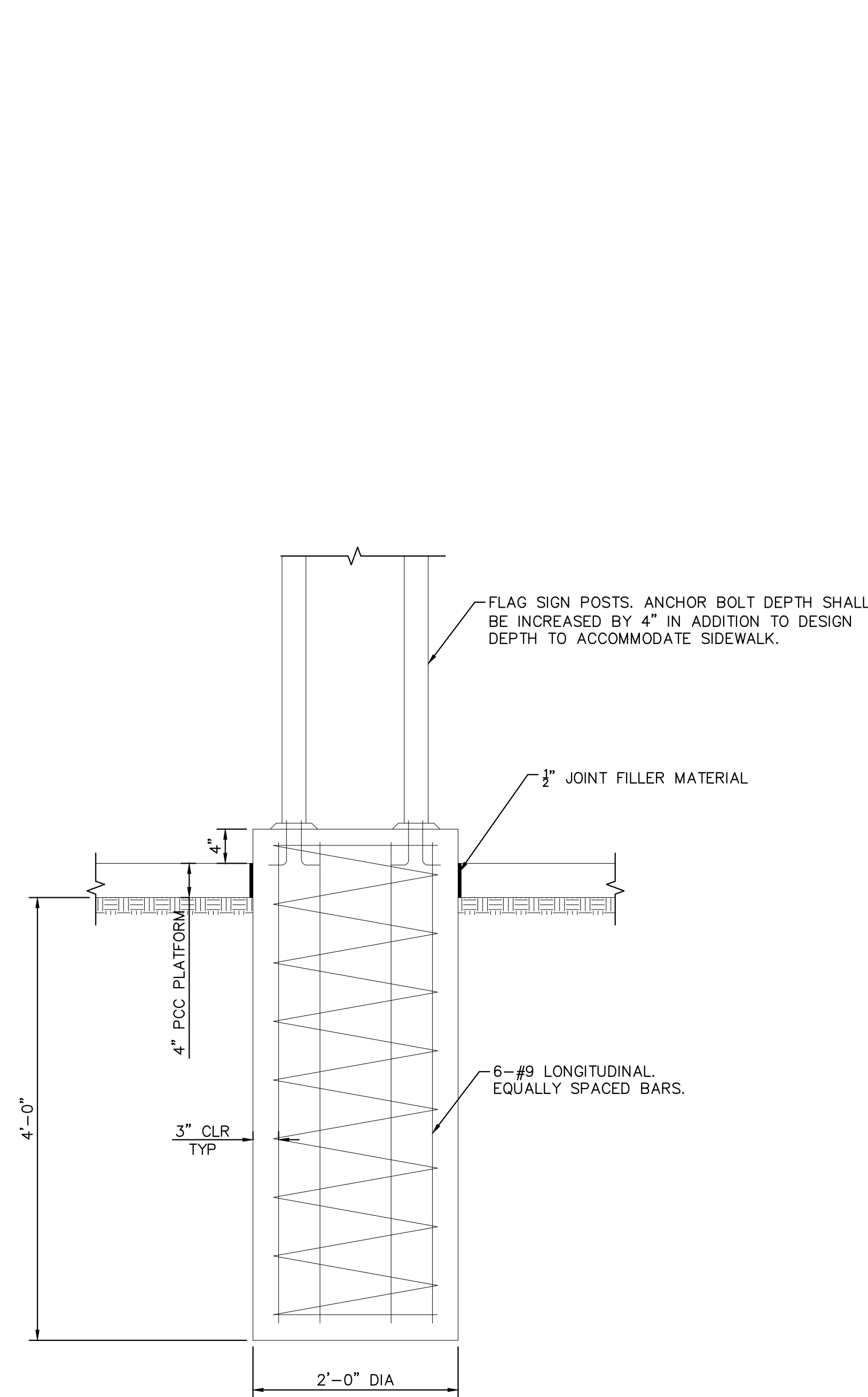
CONTRACTOR SHALL COORDINATE ANCHOR BOLT SIZE, EMBEDMENT AND PLACEMENT WITH STRUCTURE MANUFACTURER PRIOR TO PLACEMENT OF CONCRETE IN FOUNDATION. ANCHOR BOLTS SHALL BE CAST IN WITH FOUNDATION CONCRETE AND NOT AFTER CONCRETE HAS SET. ANCHOR BOLT LENGTH SHALL BE INCREASED BY THICKNESS OF SIDEWALK (4") FROM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

CONSTRUCTION STAGING SHALL BE AS FOLLOWS--

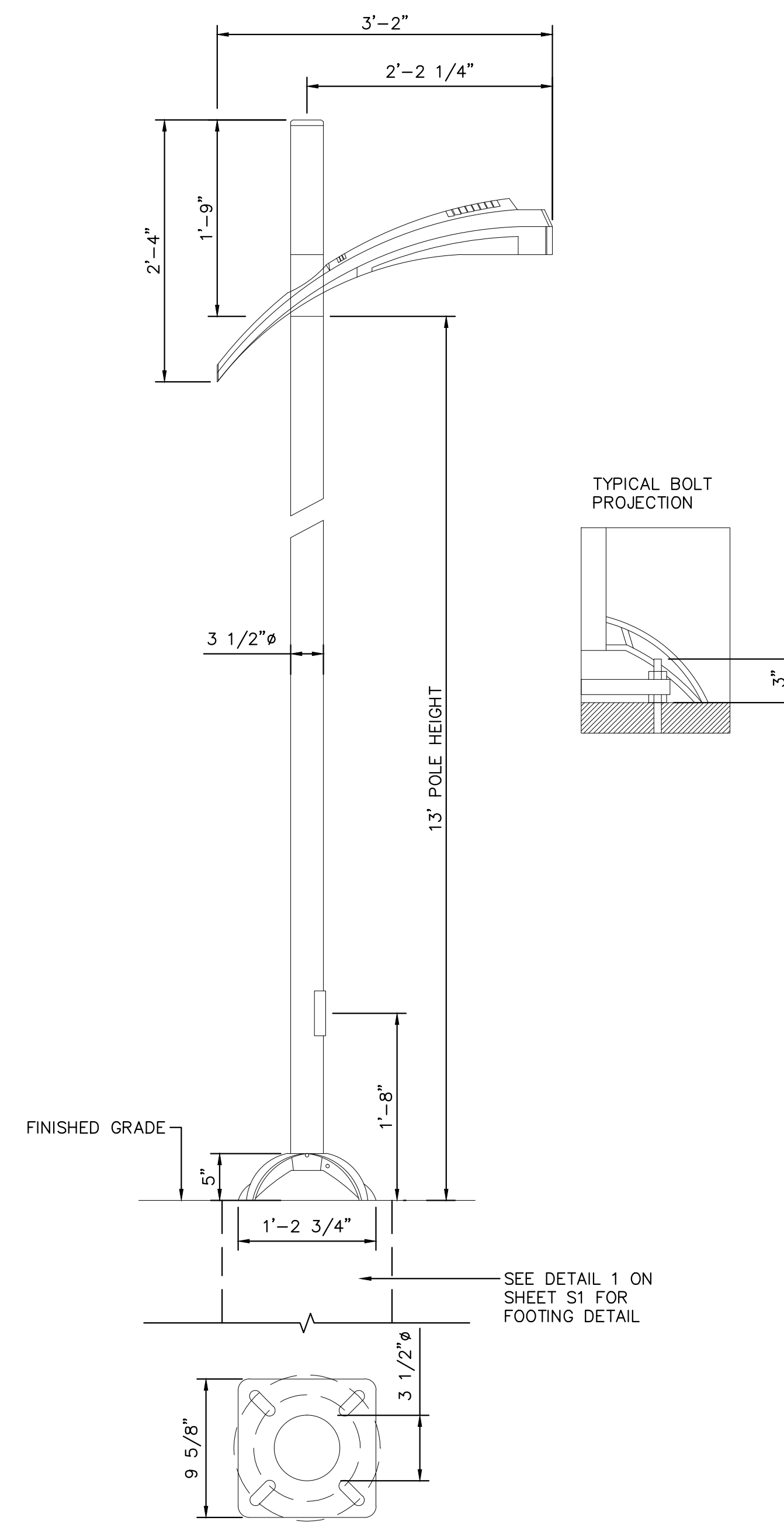
- 1) DRILL AND POUR FOUNDATION WITH ANCHOR BOLTS IN PLACE TO TOP OF FOUNDATION ELEVATION.
- 2) POUR SIDEWALK WITH ADEQUATE PROJECTION OF ANCHOR BOLTS FROM TOP OF SIDEWALK ELEVATION.
- 3) PLACE LIGHT OR SIGN POST.

SPECIAL INSTRUCTIONS

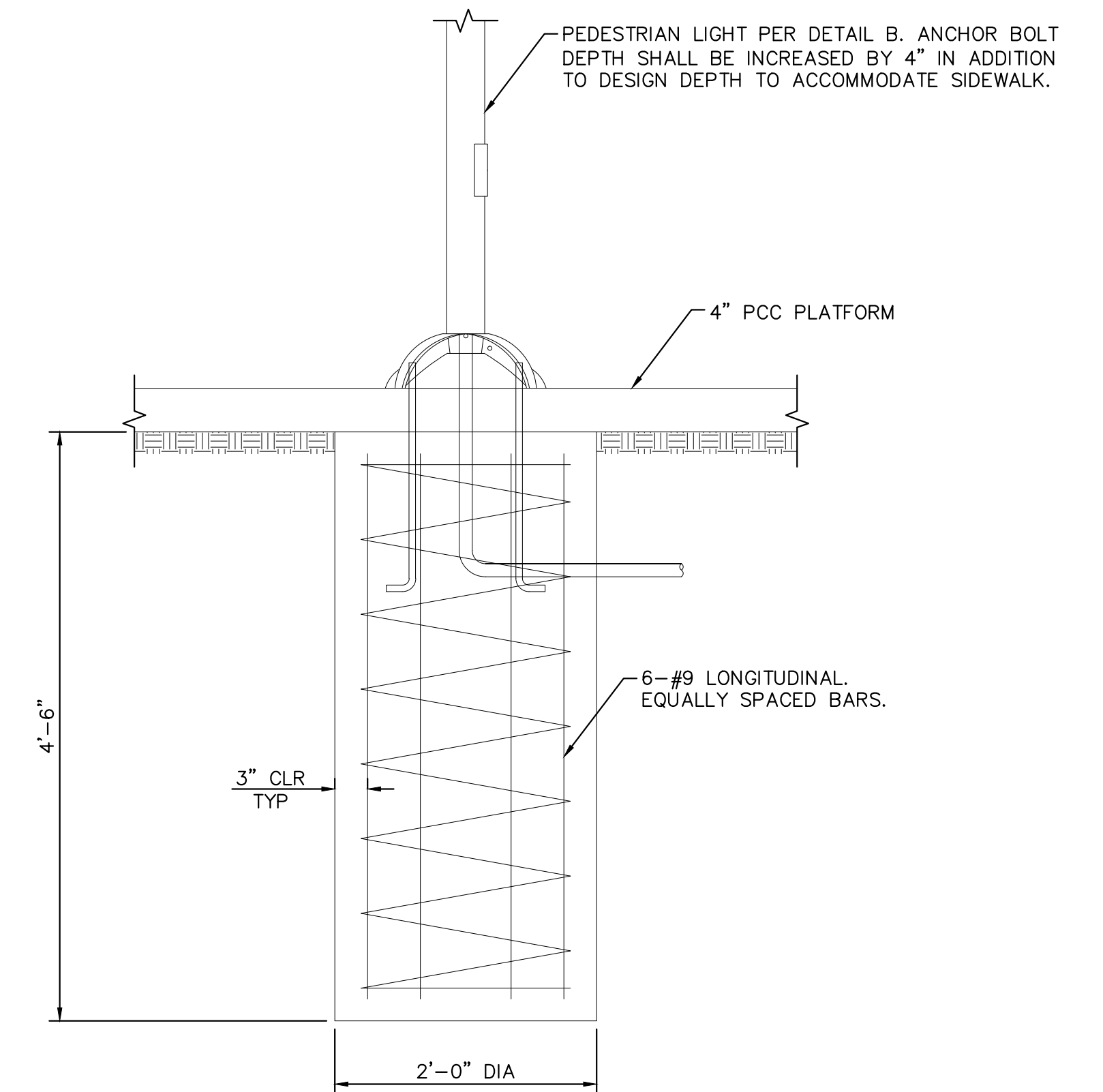
SEE SHEET SD-03 FOR SPECIAL INSPECTION REQUIREMENTS



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



B RAPID PEDESTRIAN LIGHT
SD-04 NOT TO SCALE



C PEDESTRIAN LIGHT FOUNDATION
SD-04 NOT TO SCALE



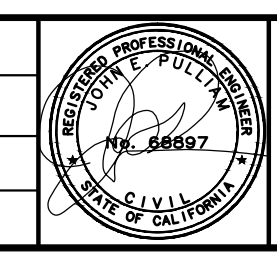
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LIVERMORE CALIFORNIA
RAPID BUS STOP COLUMN-MOUNTED FLAG SIGN STRUCTURAL DETAILS

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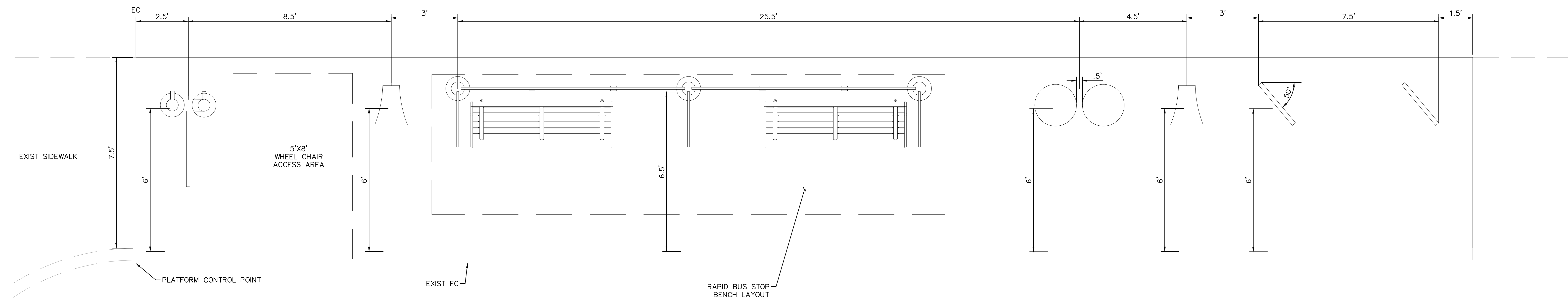
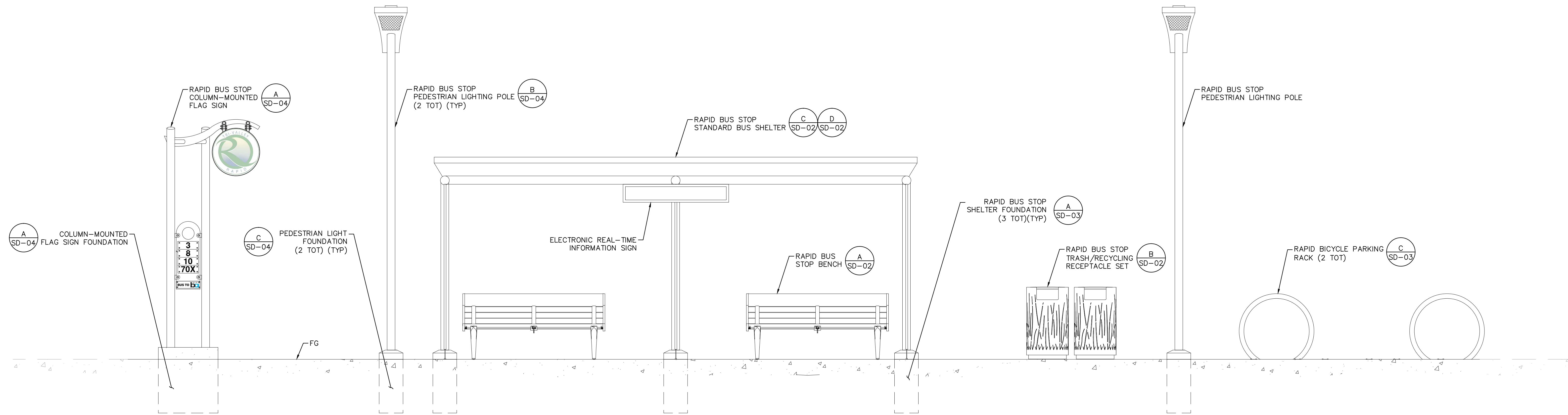


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A RAPID BUS STOP TYPICAL FURNITURE LAYOUT – PLAN AND PROFILE
SD-06 NOT TO SCALE



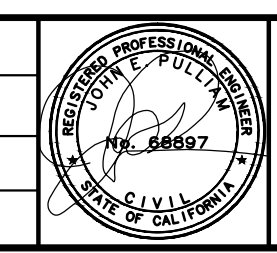
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 TYPICAL RAPID BUS STOP FURNITURE LAYOUT
 CALIFORNIA

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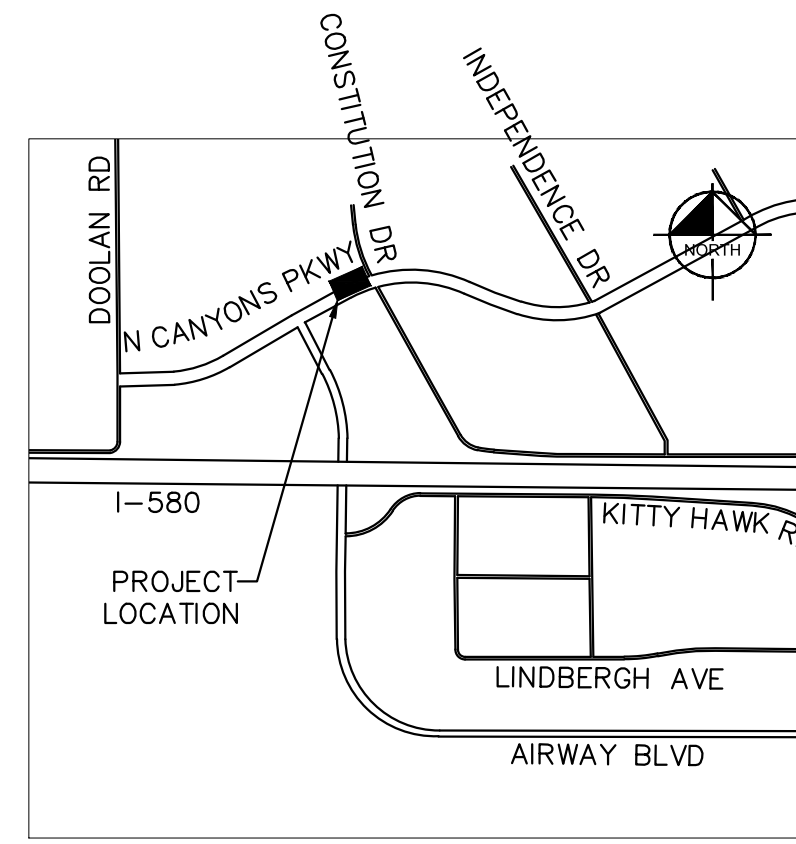


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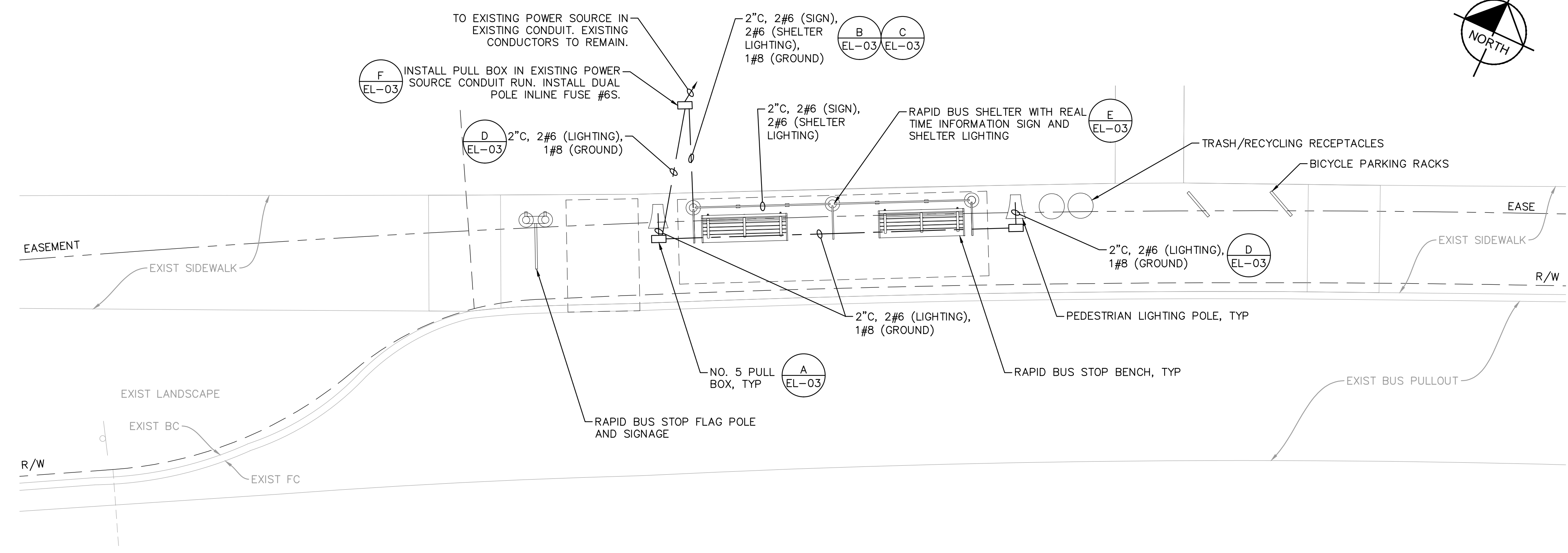
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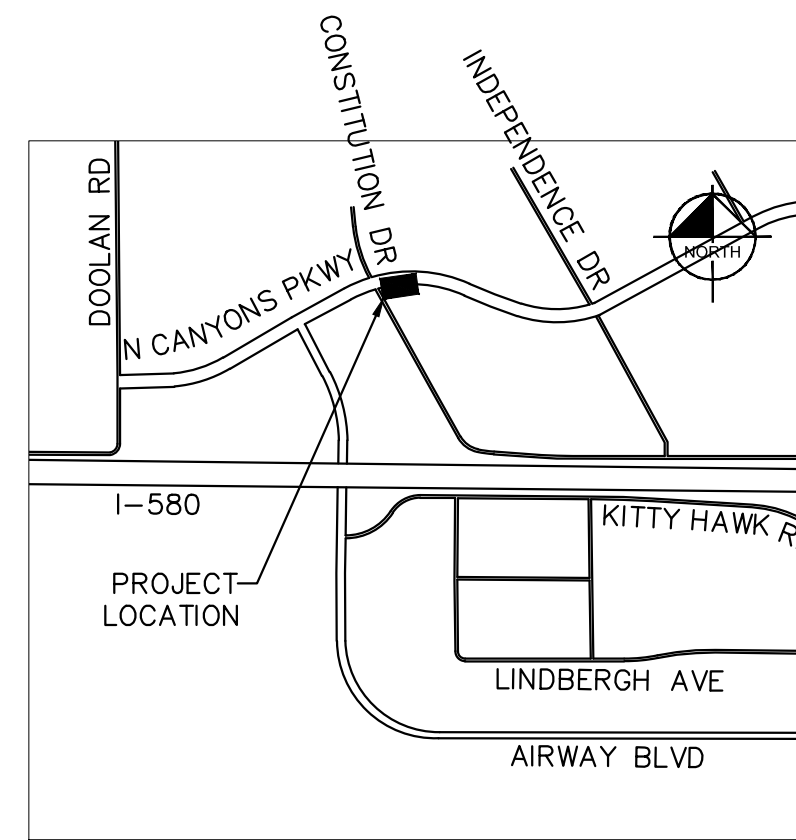
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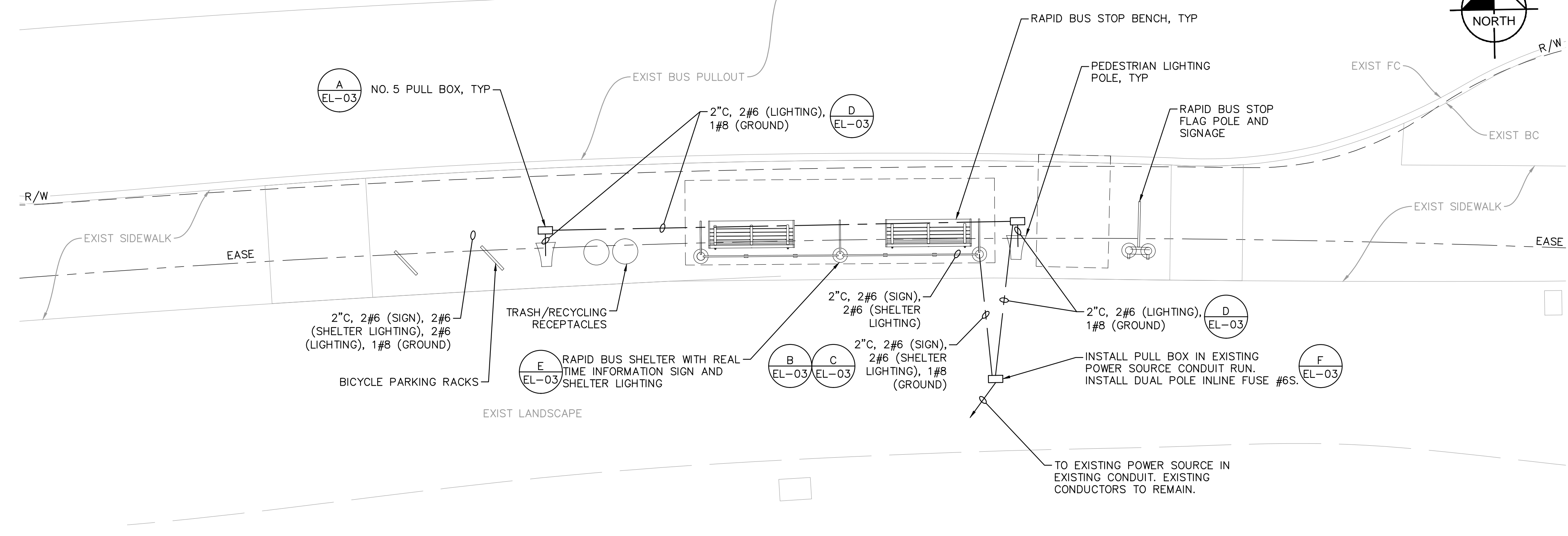
LOCATION MAP
NOT TO SCALE



ELECTRICAL PLAN
NORTH CANYONS PARKWAY AND CONSTITUTION DRIVE - WESTBOUND



LOCATION MAP
NOT TO SCALE



ELECTRICAL PLAN
NORTH CANYONS PARKWAY AND CONSTITUTION DRIVE - EASTBOUND

- NOTES**
- DIMENSIONS SHOWN MAY NOT ADD DUE TO ROUNDING. EXACT LOCATIONS MAY BE FIELD ADJUSTED.
 - 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.
 - 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 NEARBY BUS STOP. SEE SECTION 7 OF THE TECHNICAL SPECIFICATIONS FOR DETAILS. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION MAINTENANCE AND REMOVAL OF TEMPORARY BUS STOP DIRECTIONAL SIGNAGE, BARRICADES, PAVEMENT MARKINGS, AND NO PARKING SIGNS PER THE SPECIAL PREVISIONS.
 - BUS STOP SHALL BE WIRED PER DETAIL F ON SHEET EL-03.
 - SEE CD SHEETS FOR INSTALLATION OF SHELTER AND AMENITIES



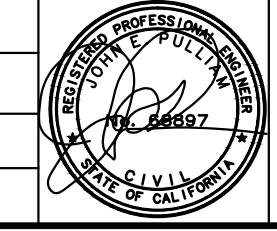
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NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS
ELECTRICAL PLANS -- CONSTITUTION DRIVE
CALIFORNIA

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DEPUTY DIRECTOR: _____
TRAFFIC ENGINEER: _____

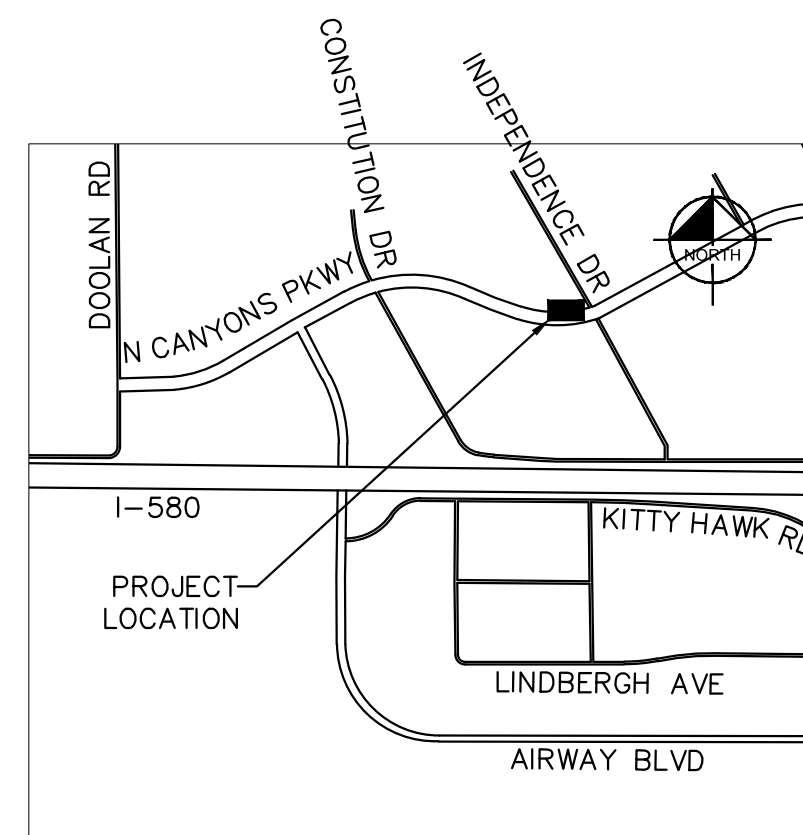


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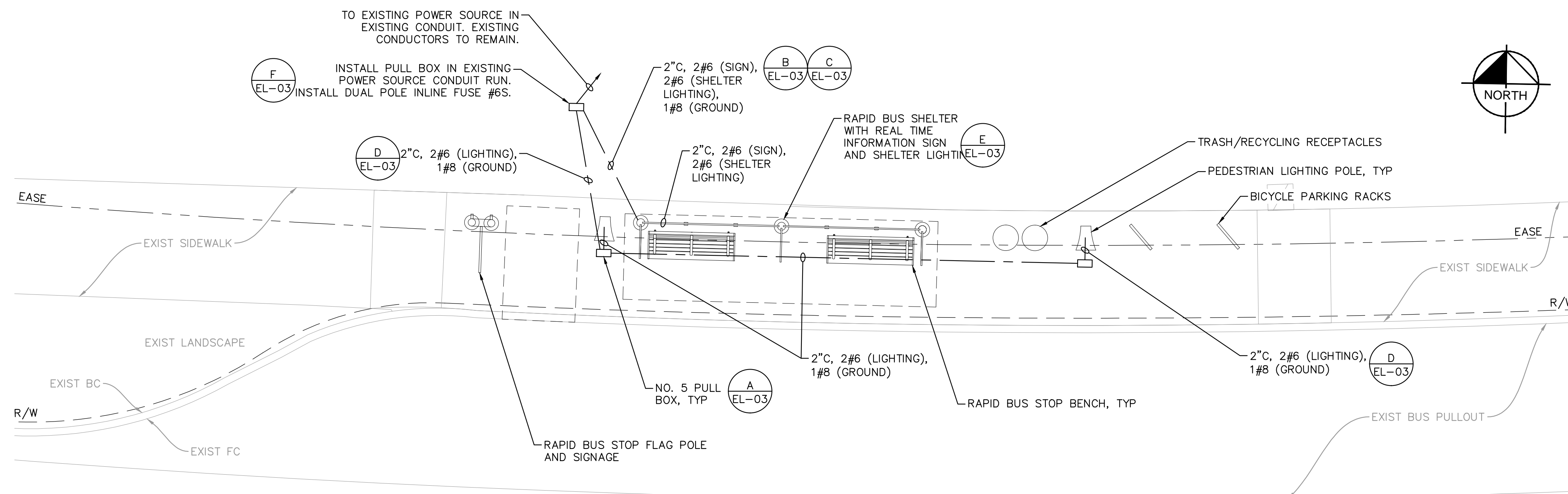
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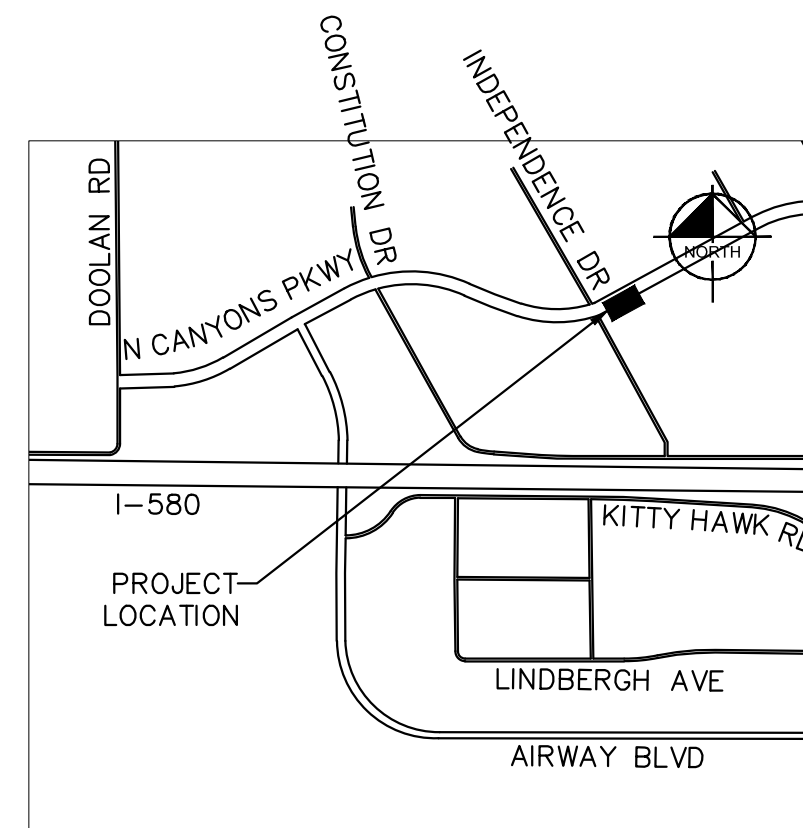
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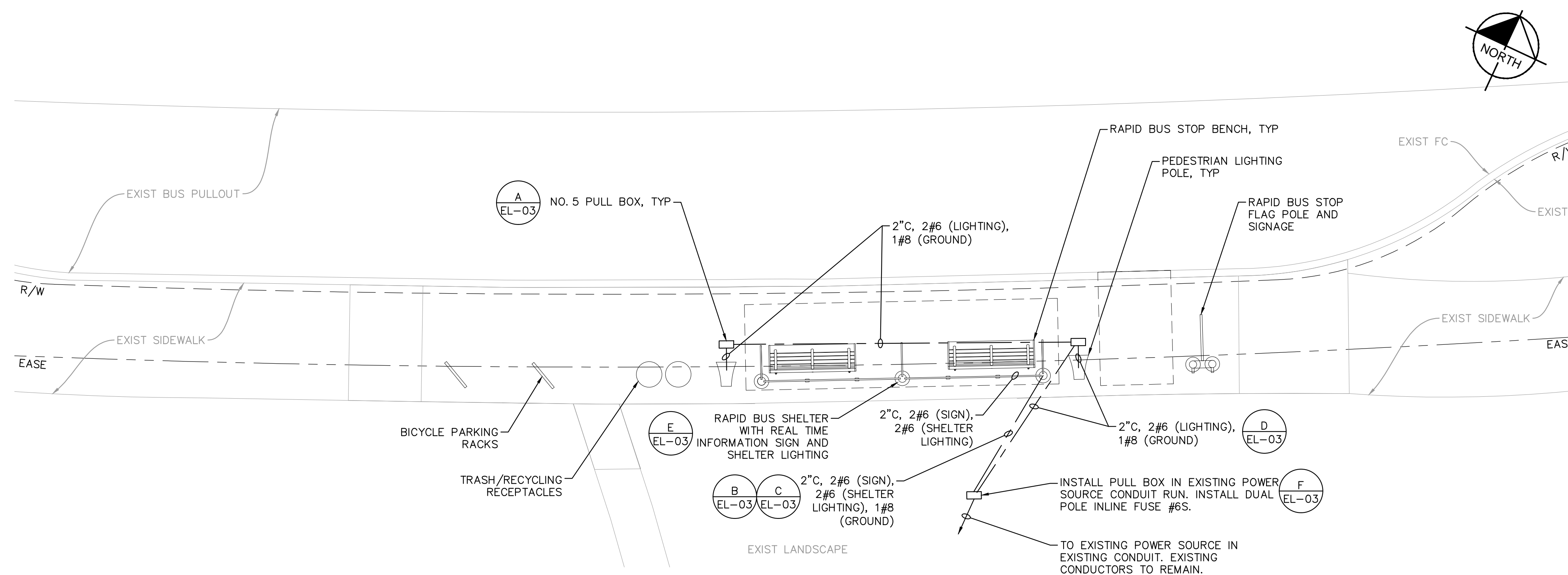
LOCATION MAP
NOT TO SCALE



ELECTRICAL PLAN
NORTH CANYONS PARKWAY AND INDEPENDENCE DRIVE - WESTBOUND



LOCATION MAP
NOT TO SCALE



ELECTRICAL PLAN
NORTH CANYONS PARKWAY AND INDEPENDENCE DRIVE - EASTBOUND

NOTES

- DIMENSIONS SHOWN MAY NOT ADD DUE TO ROUNDING. EXACT LOCATIONS MAY BE FIELD ADJUSTED.
- 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.
- 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 NEARBY BUS STOP. SEE SECTION 7 OF THE TECHNICAL SPECIFICATIONS FOR DETAILS. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION MAINTENANCE AND REMOVAL OF TEMPORARY BUS STOP DIRECTIONAL SIGNAGE, BARRICADES, PAVEMENT MARKINGS, AND NO PARKING SIGNS PER THE SPECIAL PREVISIONS.
- BUS STOP SHALL BE WIRED PER DETAIL F ON SHEET EL-03.
- SEE CD SHEETS FOR INSTALLATION OF SHELTER AND AMENITIES



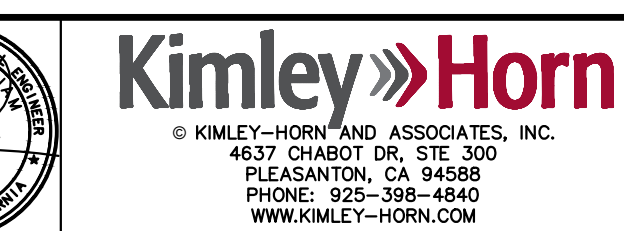
REV.	DATE	DESCRIPTION



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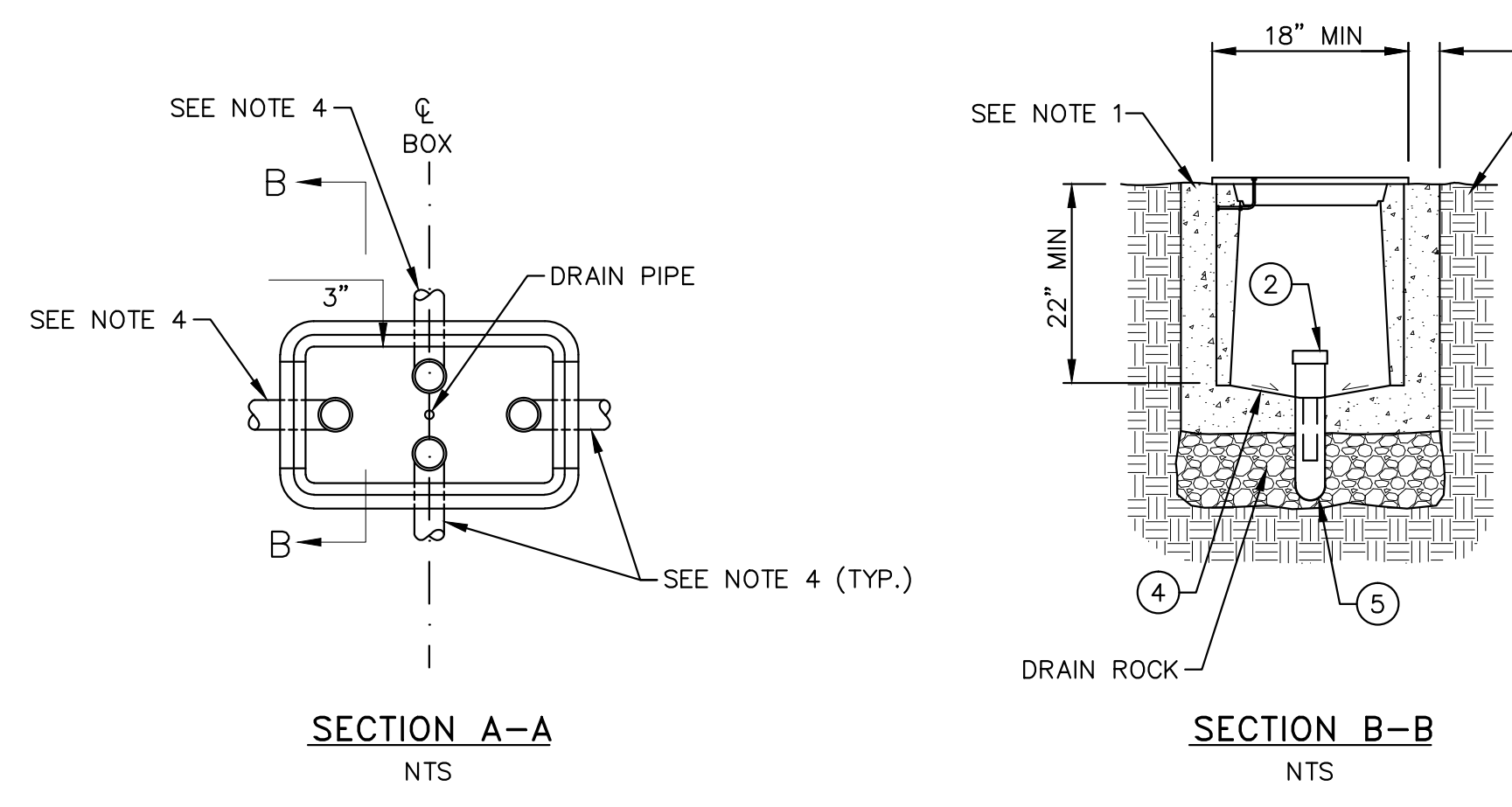
LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY
NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS
ELECTRICAL PLANS - INDEPENDENCE DRIVE
CALIFORNIA

DRAWN:
CHECKED:
DEPUTY DIRECTOR:
TRAFFIC ENGINEER:



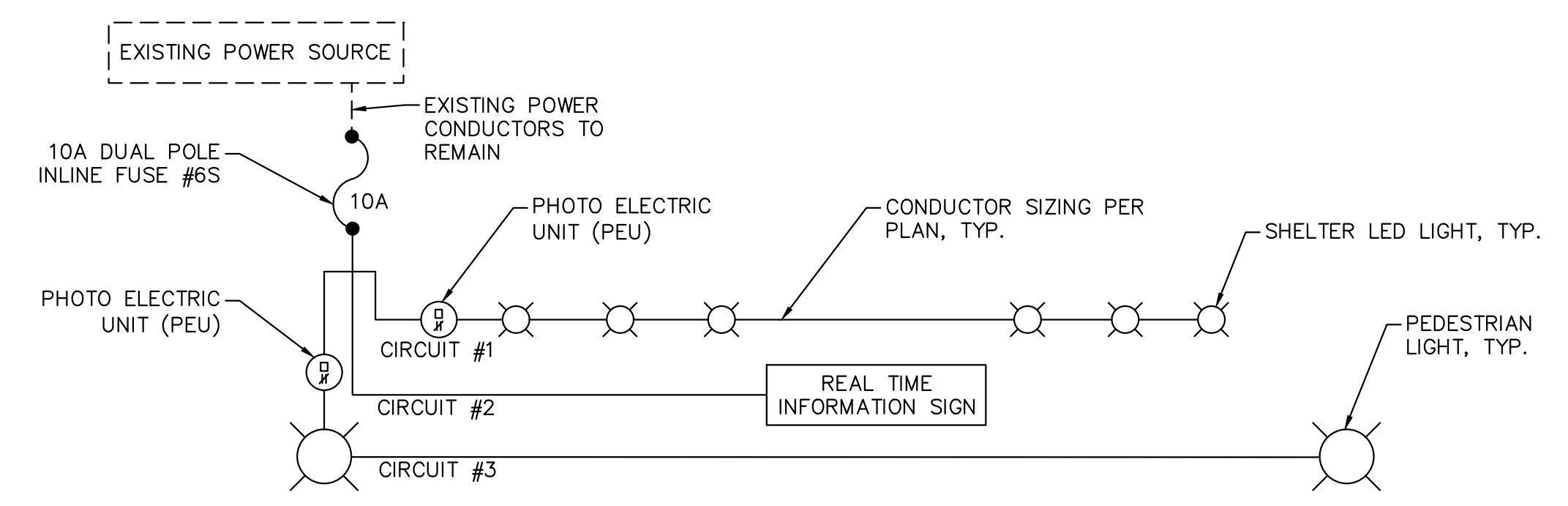
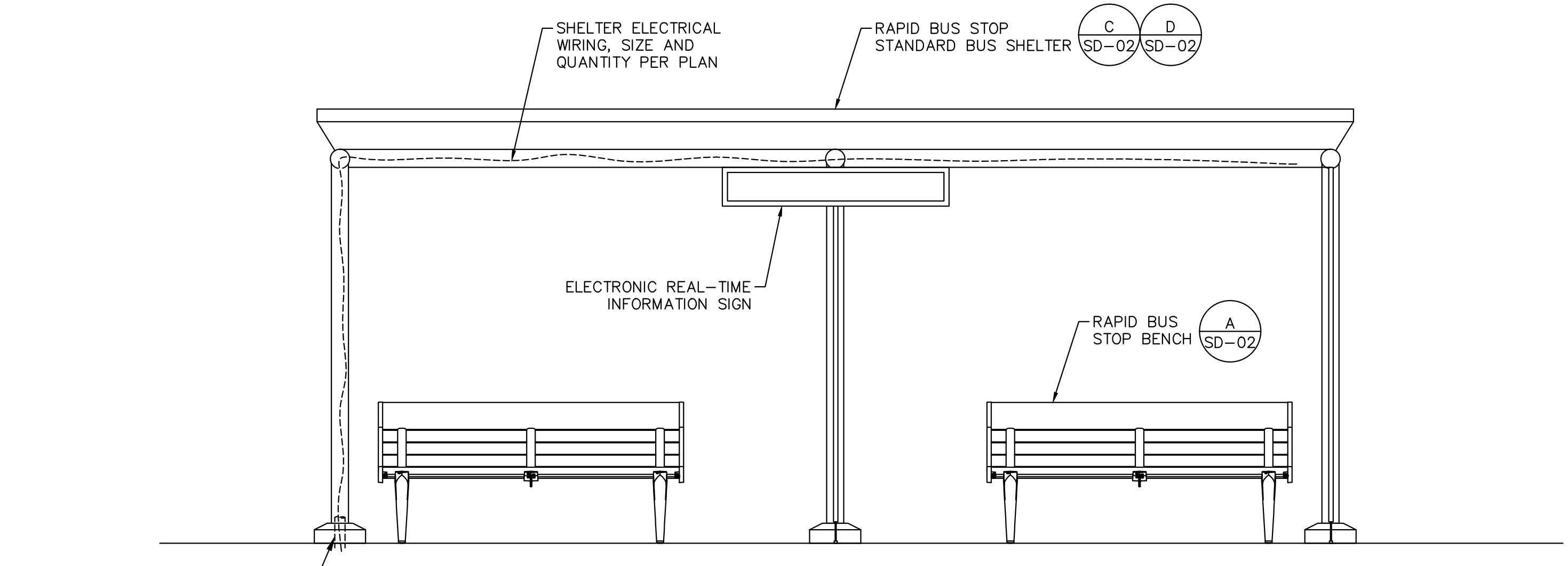
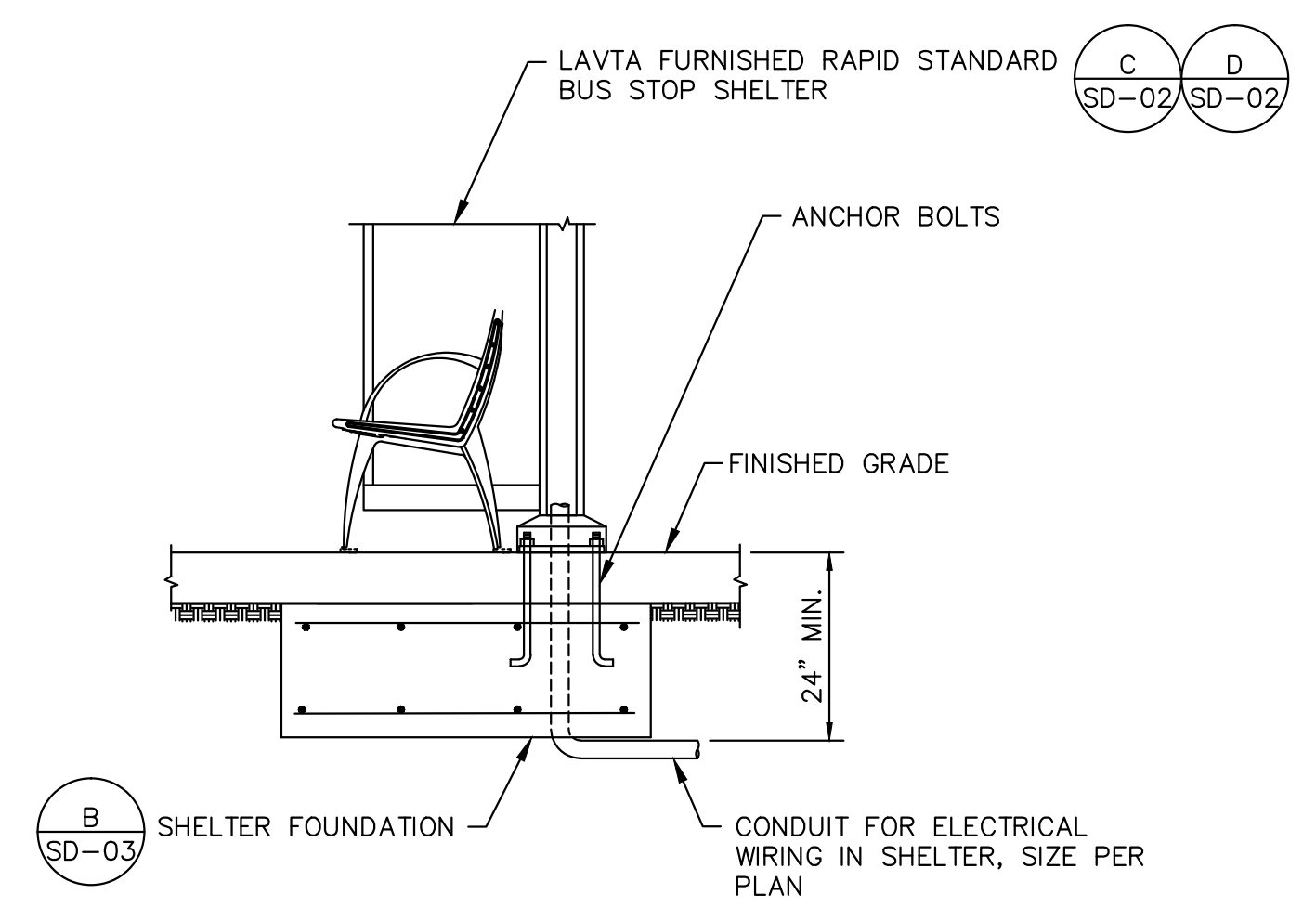
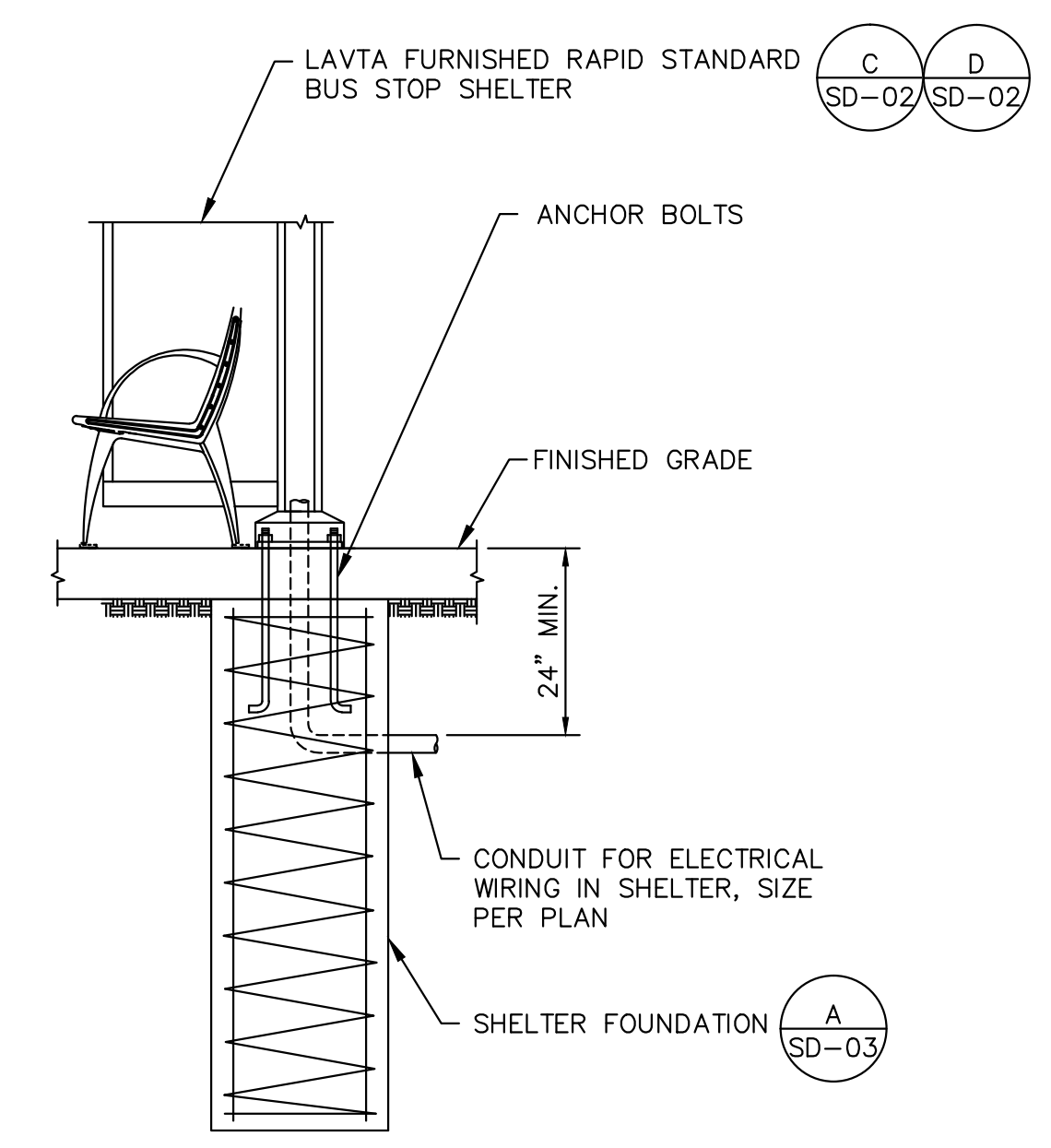
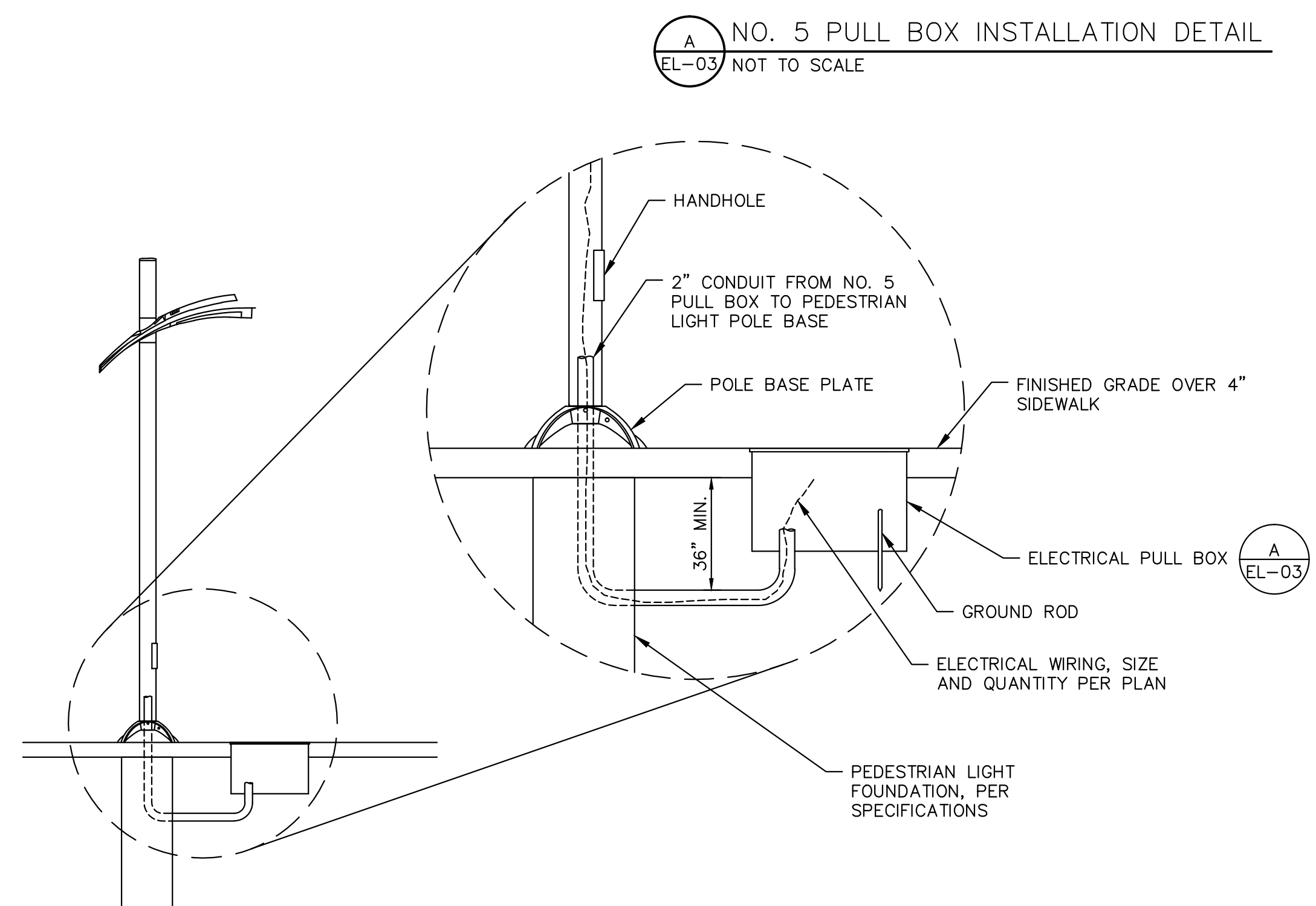
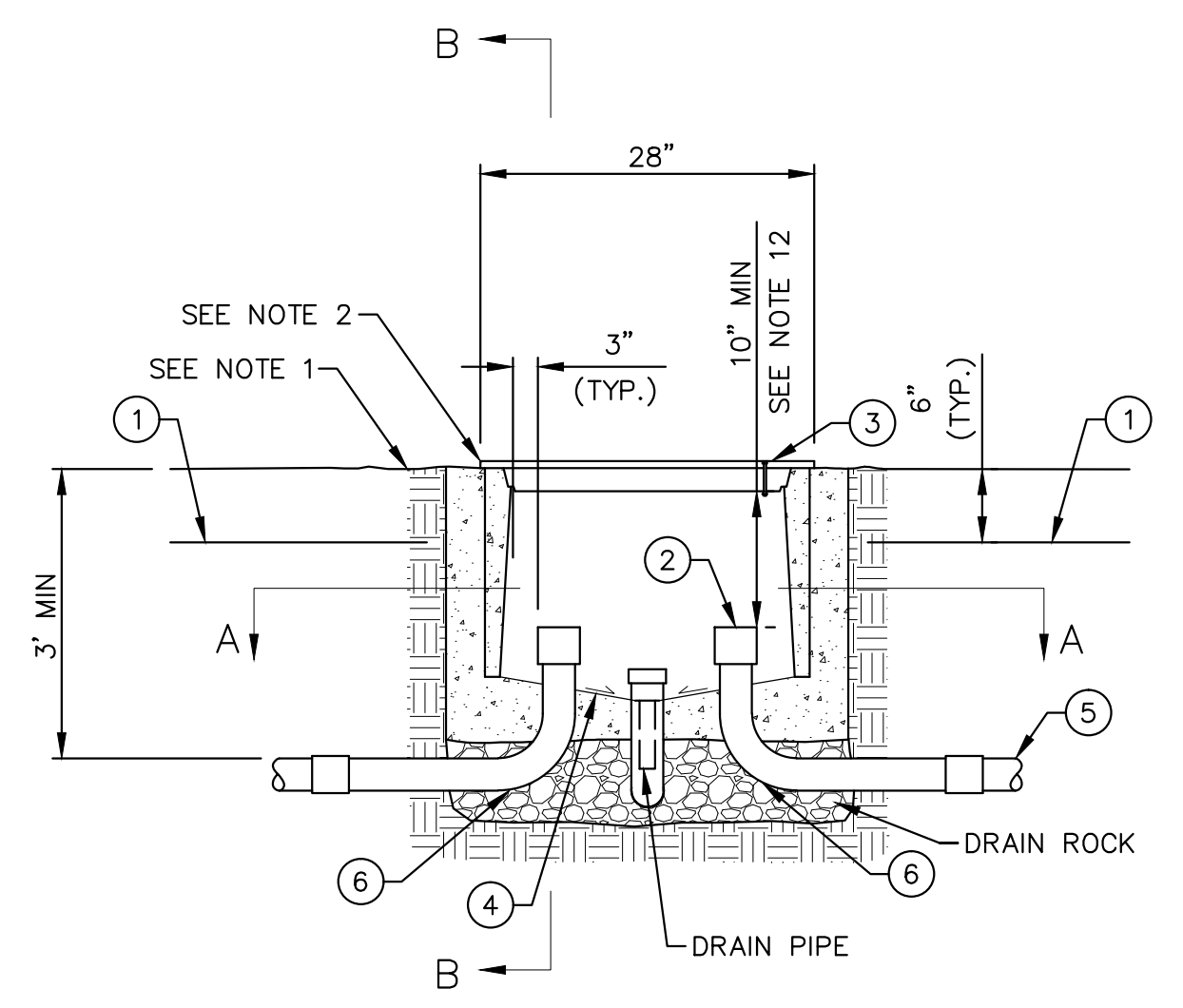
APPROVED:
CHERI SHEETS
CITY ENGINEER
RCE #38751

DATE: 9/7/2017
SCALE: 1"=5'
FILE NAME: EL-02
SHEET
18 of 19



ITEM No.	PULL BOX INSTALLATION DETAIL DESCRIPTION
①	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

- NOTES:
- BACKFILL ACCORDING TO THE CITY OF LIVERMORE STANDARD SPECIFICATIONS AND DETAILS.
 - "ELECTRICAL" SHALL BE THE TITLE INTEGRATED IN THE LID OF ALL PULL BOXES.
 - 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.
 - SEE PLAN SHEETS FOR NUMBER AND SIZE OF CONDUIT.
 - NUMBERS IN CIRCLES REFER TO ITEMS IN THE TABLE.
 - IF NEW CONDUIT IS USED, THE CONTRACTOR SHALL INSTALL SCHEDULE 80 PVC OR HDPE CONDUIT WITH 90 DEGREE BEND AS SHOWN.
 - PULL BOX HEIGHT ABOVE FINISHED GRADE SHALL PERMIT 1" OF SURFACE LANDSCAPING, IF APPLICABLE, TO MATCH EXISTING CONDITIONS.
 - 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.
 - ALL METALLIC CONDUIT SHALL HAVE GROUND BUSHINGS. ALL PVC AND HDPE CONDUIT SHALL HAVE BELL ENDS.



REV.	DATE	DESCRIPTION



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LIVERMORE AMADOR VALLEY TRANSIT AUTHORITY
NORTH CANYONS PARKWAY BUS STOP IMPROVEMENTS
LIVERMORE CALIFORNIA

DRAWN: _____
CHECKED: _____
DEPUTY DIRECTOR: _____
TRAFFIC ENGINEER: _____



APPROVED: _____
CHERI SHEETS
CITY ENGINEER
RCE #38751

DATE: 9/7/2017
SCALE: NONE
FILE NAME: EL-03
SHEET 19 of 19