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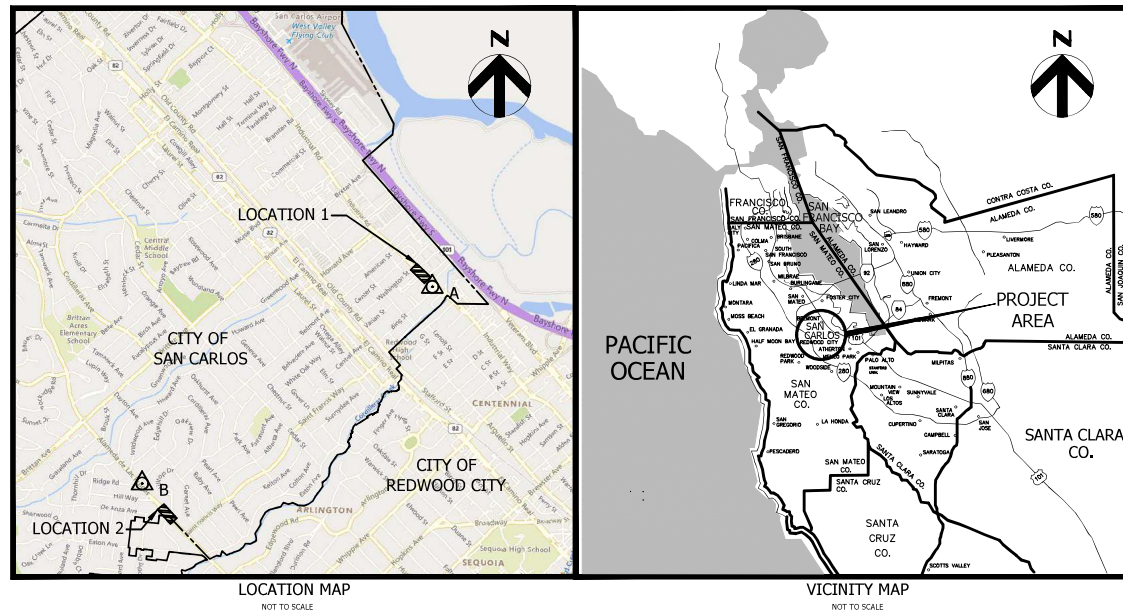
CITY OF SAN CARLOS PROJECT PLANS FOR 2023 MIDBLOCK CROSSING PROJECT INSTALLATION OF RRFBS AT ALAMEDA DE LAS PULGAS AND INDUSTRIAL ROAD

TO BE SUPPLEMENTED BY
CALIFORNIA DEPARTMENT OF TRANSPORTATION
STANDARD PLANS AND STANDARD SPECIFICATIONS
DATED 2022

UNDERGROUND FACILITIES SHOWN WHERE LOCATED BASED ON INFORMATION PROVIDED BY UTILITY COMPANIES AND BY MEASURING SURFACE FEATURES.

CONTRACTOR SHALL VERIFY ACTUAL DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION... CALL "UNDERGROUND SERVICE ALERT" (U.S.A.). (TOLL FREE 811) PRIOR TO TRENCHING, GRADING, EXCAVATION, DRILLING, PIPE PUSHING, PLANTING TREES, DIGGING POST HOLES FOR FENCE, ETC. (U.S.A.) WILL SUPPLY INFORMATION OR LOCATE AND MARK ANY UNDERGROUND FACILITIES.

BEARINGS AND DISTANCES SHOWN ARE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83) CONVERTED TO THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 3 (CCS83-III) AS REFERENCED BY THE CITY OF SAN CARLOS HORIZONTAL CONTROL SYSTEM. GRID DISTANCES SHOWN MUST BE MULTIPLIED BY 1.00006056 TO OBTAIN GROUND DISTANCES. ELEVATIONS SHOWN ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29) AS REFERENCED BY AVAILABLE CITY OF STOCKTON 1996 LOCAL ADJUSTMENT (COS96) BENCHMARKS, 2003 REVISION. UNITS SHOWN ARE BASED ON THE U.S. SURVEY FOOT, 1991.35 EPOCH DATE ADJUSTMENT.



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	GARRETT LOW
DESIGNED BY	M. BAJADA
DRAWN BY	M. BAJADA
CHECKED BY	A. SEKIKA
SUBMITTED BY	G. LOW
PROJECT NUMBER	C1807



CITY OF SAN CARLOS
INSTALLATION OF RRFBS AT ALAMEDA
DE LAS PULGAS AND INDUSTRIAL ROAD

TITLE SHEET



0 1" 2"
RELATIVE BORDER SCALE
IS IN INCHES

DATE 11/01/23
SCALE NO SCALE

SHEET
T-1

GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, 2022 EDITION.
- THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES FOUND IN THESE PLANS TO THE ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL CONFINE HIS OPERATIONS AND ACTIVITIES TO WITHIN THE PROJECT LIMITS, CONSISTING OF ROAD RIGHT OF WAY, RIGHTS OF ENTRY AND/OR PROJECT CONFORMS, AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE STANDARD PLANS, SPECIFICATIONS AND REQUIREMENTS SET FORTH IN THE CITY OF SAN CARLOS ENGINEERING STANDARDS OR AS NOTED OTHERWISE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING/ REPLACING DAMAGED CURB, SIDEWALK AND PAVEMENT RESULTING FROM CONSTRUCTION AND LANDSCAPING OPERATIONS.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING GRADES.
- IT IS CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHOWN OR NOT WITH THE APPROPRIATE UTILITY AGENCIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY ALL PUBLIC AND PRIVATE UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF WORK ADJACENT TO THE UTILITY. CONTACT SERVICE ALERT (USA NORTH 811).
- ALL REVISIONS TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION AND SHALL BE INCORPORATED INTO THE DESIGN DOCUMENTS BY THE DESIGNER WITH THE CITY ENGINEER'S APPROVAL PRIOR TO THE INSTALLATION OF IMPROVEMENTS UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
- TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. ALL TRAFFIC CONTROL AND DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD)", LATEST SUPPLEMENT EDITION.
- THE CONTRACTOR SHALL PROVIDE FOR CONTINUOUS INGRESS AND EGRESS TO ALL PUBLIC AND PRIVATE PROPERTIES ADJACENT TO THE WORK THROUGHOUT THE PERIOD OF CONSTRUCTION UNLESS APPROVED BY THE ENGINEER.
- EXCAVATION AND RECONSTRUCTION OF THE PAVEMENT MUST NOT EXCEED 500 LINEAR FEET AT ANY TIME. TO MINIMIZE INTERRUPTION TO THE RESIDENTS AND PUBLIC THE CONSTRUCTION LIMITS OF PLACEMENT OF THE FINAL ASPHALT CONCRETE PAVEMENT LIFT CAN BE EXPANDED TO A FULL STREET BLOCK IF APPROVED BY THE CITY. BACKFILL ALL EXCAVATED & RECONSTRUCTED AREAS TO WITHIN 2 INCHES FROM ADJACENT GRADE BY END OF WORKING DAY.
- MATCH EXISTING STREETS, SURROUNDING LANDSCAPE, AND ALL OTHER EXISTING CONDITIONS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALKS, GRADING, ETC., AND TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS, AND HAZARDOUS CONDITIONS, PAVING CONFORMS MUST BE MADE AT A SMOOTHLY TRIMMED BUTT JOINT. DO NOT OVERLAP EXISTING PAVEMENT.
- NOTIFY THE CITY'S PUBLIC WORKS DEPARTMENT AT LEAST 72 HOURS PRIOR TO CUTTING AND OR REMOVING ANY TREE ROOTS LARGER THAN 1 INCH IN DIAMETER TO ALLOW CITY ARBORIST TO INSPECT AND MAKE RECOMMENDATIONS UNLESS NOTED ON PLANS TO REMOVE TREE.
- HAUL ROUTES ARE ALLOWED ONLY ON COORDINATED STREETS AND MUST BE PRE-APPROVED BY THE ENGINEER.
- NOTIFY ALL TRANSIT AGENCIES AND TRASH COLLECTION AND EMERGENCY SERVICES IN ADVANCE OF THE GRINDING AND PAVING SCHEDULES AND ALLOW FOR COORDINATION WITH THESE AGENCIES IN THE CONSTRUCTION SCHEDULE.
- RIGHT OF WAY IS APPROXIMATE FROM CITY RECORD DATA.
- FINAL LOCATION OF TRAFFIC SIGNS AND LIMITS OF PAINTED CURB SHALL BE AS DIRECTED BY THE ENGINEER.

LEGEND

EXISTING	
	CITY LIMITS
	CLEANOUT
	FIRE HYDRANT
	GAS LINE
	JOINT POLE
	MANHOLE
	OVERHEAD FACILITIES
	SANITARY SEWER
	SIGN
	STORM DRAIN
	STORM DRAIN INLET
	STREET LIGHT
	UTILITY BOX
	WATER LINE
	WATER METER
	WATER VALVE
	TREE
	UNDERGROUND ELECTRICAL
PROPOSED	
	CONTROL POINT
	SAWCUT LINE
	NEW OR RELOCATE SIGN

	HMA PLUG (6 INCH DEEP)
	PAVEMENT FAILURE REPAIR
	PCC CONCRETE
	DETECTABLE WARNING PANEL
	STATION, OFFSET, ELEVATION POINT
	GUTTER FLOW DIRECTION
	SLOPE DIRECTION

ELEVATION ARE BASED UPON CITY OF SAN CARLOS DATUM.

COORDINATES SHOWN ARE BASED UPON NAD83 (2011), CALIFORNIA COORDINATE SYSTEM, ZONE 3. THE ELEVATION WAS DETERMINED USING NATIONAL GEODETIC SURVEY HEIGHT MODERNIZATION POINTS.

A BRASS DISK SET IN THE TOP OF THE SOUTH CURB RETURN ON INDUSTRIAL ROAD AT BING STREET
CITY OF SAN CARLOS BENCHMARK NO. 48
ELEV 9.06'

B A BRASS DISK SET IN THE TOP OF THE SOUTH EAST CURB RETURN OF OAKVIEW DRIVE AT ALAMEDA DE LAS PULGAS
CITY OF SAN CARLOS BENCHMARK NO. 14
ELEV 98.87'

ABBREVIATIONS

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
ADJ	ADJUST
BOW	BACK OF WALK
BMP	BEST MANAGEMENT PRACTICES
BP	BEGIN POINT
CA MUTCD	CALTRANS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
CBR	CALIFORNIA BEARING RATIO
CONC	CONCRETE
CSC	CITY OF SAN CARLOS
DWY	DRIVEWAY
EP	END POINT
EXIST	EXISTING
FL	FLOW LINE
FOC	FACE OF CURB
HMA	HOT MIX ASPHALT
LF	LINEAR FEET
LT	LEFT
MH	MANHOLE
NO	NUMBER
NTS	NOT TO SCALE
PCC	PORTLAND CEMENT CONCRETE
RD	ROAD
RRFB	RECTANGULAR RAPID FLASHING BEACON
RT	RIGHT
STA	STATION
STD	STANDARD
SF	SQUARE FEET
SW	SIDEWALK
TOC	TOP OF CURB



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	GARRETT LOW
DESIGNED BY	M. BAJADA
DRAWN BY	M. BAJADA
CHECKED BY	A. SEKIOKA
SUBMITTED BY	G. LOW
PROJECT NUMBER	C1807



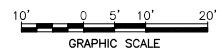
CITY OF SAN CARLOS INSTALLATION OF RRFBs AT ALAMEDA DE LAS PULGAS AND INDUSTRIAL ROAD

NOTES, LEGEND AND ABBREVIATIONS



0	1"	2"
RELATIVE BORDER SCALE IS IN INCHES		
DATE	11/01/23	SCALE
NO SCALE		

1. STATION AND OFFSET ARE TO FACE OF EXISTING CONCRETE CURB UNLESS OTHERWISE SHOWN.
2. ALL EXISTING PAVEMENT MARKING AND STRIPES THAT CONFLICT WITH THE NEW INSTALLATION ARE TO BE REMOVED.
3. FOR SIDEWALK IMPROVEMENTS DETAILS SEE CITY STANDARD DETAIL NO. 6 AND 7.
4. FOR ADDITIONAL DETAILS NOT SHOWN FOR CASE C RAMP, SEE CALTRANS STANDARD PLAN A88A.
5. SEE STANDARD DETAIL 6 FOR STANDARD CURB, GUTTER, AND SIDEWALK DETAILS.
6. TREE ROOTS SHALL NOT BE CUT WITHOUT PRIOR PERMISSION FROM THE CITY OR LICENSED ARBORISTS ON TREES ON PRIVATE PROPERTIES.



				PROJECT MANAGER	GARRETT LOW
				DESIGNED BY	M. BAJADA
				DRAWN BY	M. BAJADA
				CHECKED BY	A. SHUKLA
				SUBMITTED BY	G. LOW
ISSUE	DATE	DESCRIPTION		PROJECT NUMBER	C1807



**CITY OF SAN CARLOS
INSTALLATION OF RRFBs AT ALAMEDA
DE LAS PULGAS AND INDUSTRIAL ROAD
LAYOUT PLAN**

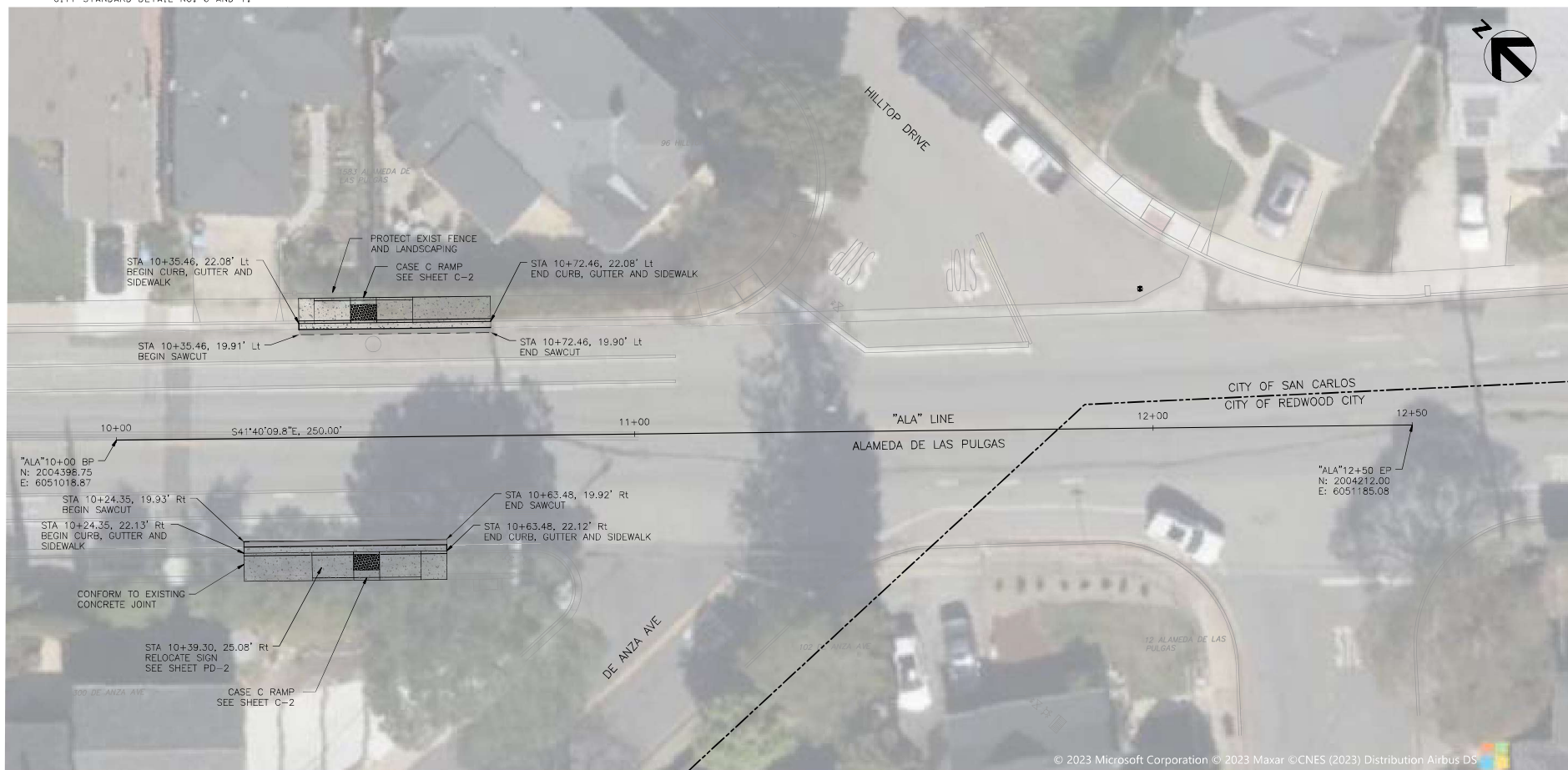


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SCALE	1" = 10'

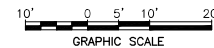
SHEET
L-1

NOTES:

1. STATION AND OFFSET ARE TO FACE OF EXISTING CONCRETE CURB UNLESS OTHERWISE SHOWN.
2. ALL EXISTING PAVEMENT MARKING AND STRIPES THAT CONFLICT WITH THE NEW INSTALLATION ARE TO BE REMOVED.
3. FOR SIDEWALK IMPROVEMENTS DETAILS SEE CITY STANDARD DETAIL NO. 6 AND 7.
4. FOR ADDITIONAL DETAILS NOT SHOWN FOR CASE C RAMP, SEE CALTRANS STANDARD PLAN A88A.
5. SEE STANDARD DETAIL 6 FOR STANDARD CURB, GUTTER AND SIDEWALK DETAILS.



LOCATION 2 - ALAMEDA DE LAS PULGAS
SCALE: 1"=10'



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	GARRETT LOW
DESIGNED BY	M. BAJADA
DRAWN BY	M. BAJADA
CHECKED BY	A. SEKIKA
SUBMITTED BY	G. LOW
PROJECT NUMBER	C1807



CITY OF SAN CARLOS INSTALLATION OF RFBs AT ALAMEDA DE LAS PULGAS AND INDUSTRIAL ROAD LAYOUT PLAN



RELATIVE BORDER SCALE
IS IN INCHES

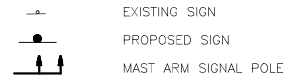
DATE 11/01/23
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SHEET
L-2

NOTES:

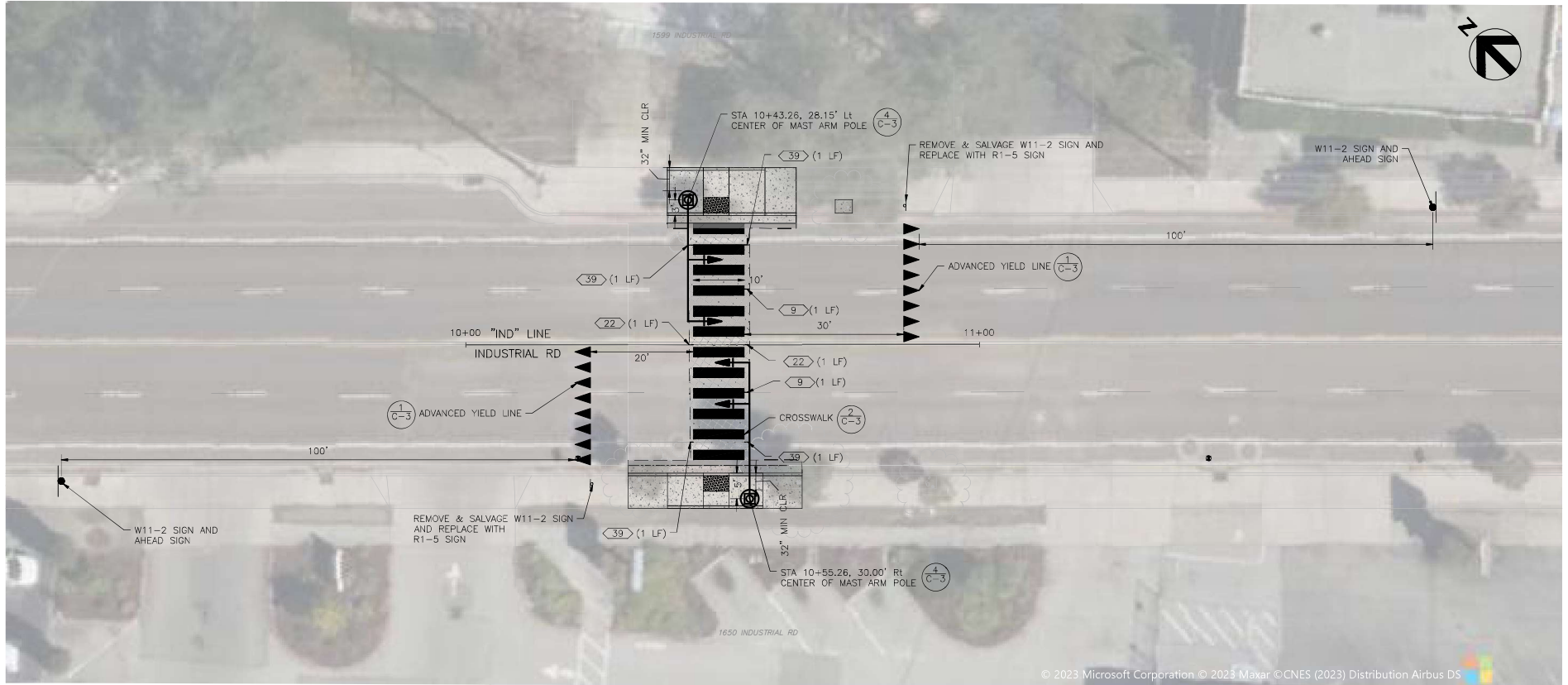
1. THIS PLAN IS ACCURATE FOR PAVEMENT DELINEATION WORK ONLY. PAVEMENT STRIPE LENGTHS SHOWN ARE APPROXIMATE AND CONTRACTOR TO VERIFY ACTUAL LENGTHS REQUIRED.
2. SEE CALTRANS STANDARD PLAN 2022 FOR STRIPING AND PAVEMENT MARKING DETAILS.
3. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC, UNLESS OTHERWISE NOTED.
4. ALL PAVEMENT MARKINGS SHALL BE WHITE, UNLESS OTHERWISE NOTED.
5. ALL EXISTING PAVEMENT MARKINGS AND STRIPES THAT CONFLICT WITH THE NEW INSTALLATION SHALL BE REMOVED.

LEGEND:

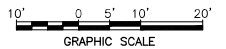


CONSTRUCTION NOTES:

<NO> TRAFFIC STRIPE DETAIL NO.



LOCATION 1 - INDUSTRIAL RD
SCALE: 1" = 10'

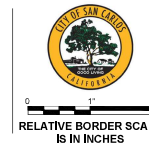


ISSUE	DATE	DESCRIPTION

PROJECT MANAGER GARRETT LOW	
DESIGNED BY	M. BAJADA
DRAWN BY	M. BAJADA
CHECKED BY	A. SEKIKA
SUBMITTED BY	G. LOW
PROJECT NUMBER	C1807



CITY OF SAN CARLOS INSTALLATION OF RFBFS AT ALAMEDA DE LAS PULGAS AND INDUSTRIAL ROAD SIGNING AND STRIPING



DATE 11/01/23
SCALE 1" = 10'

SHEET
PD-1

NOTES:

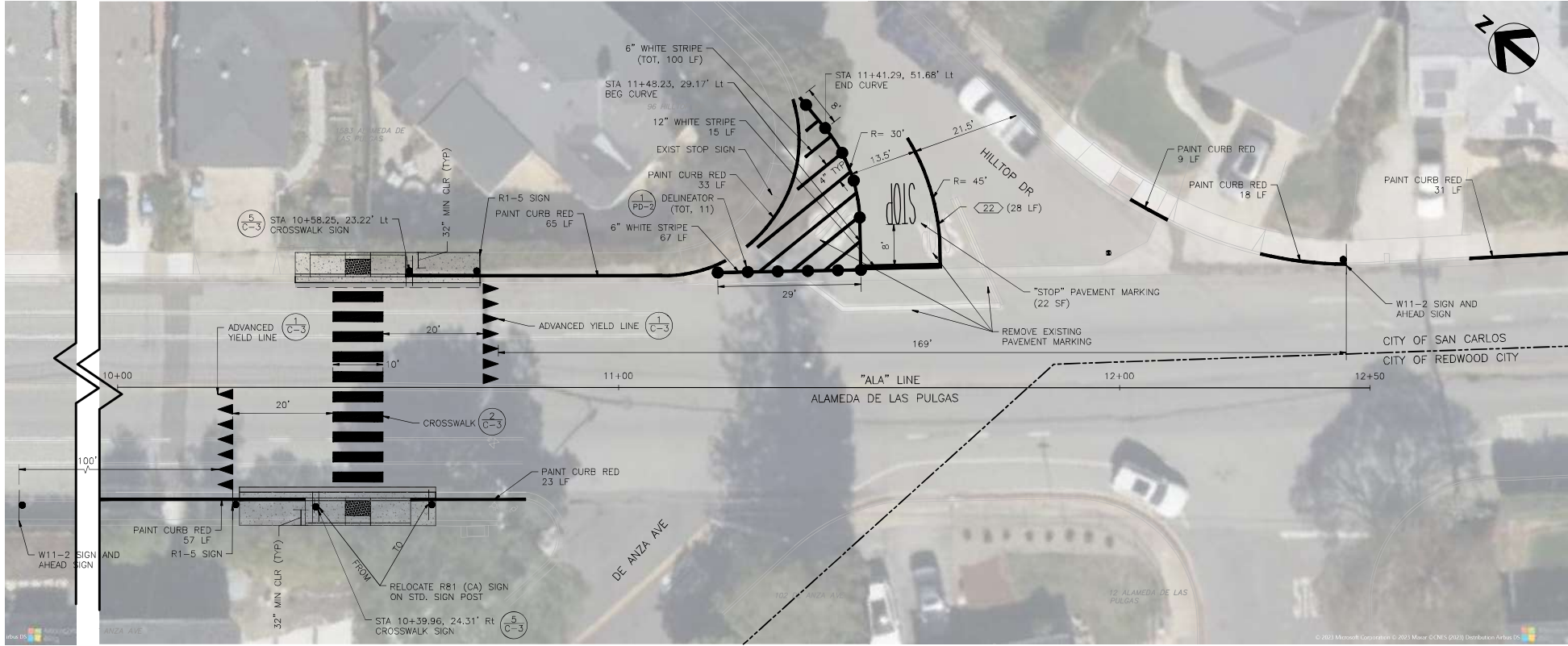
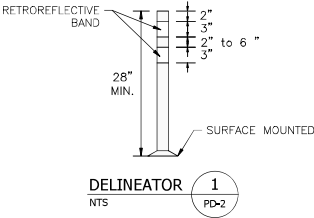
1. THIS PLAN IS ACCURATE FOR PAVEMENT DELINEATION WORK ONLY. PAVEMENT STRIPE LENGTHS SHOWN ARE APPROXIMATE AND CONTRACTOR TO VERIFY ACTUAL LENGTHS REQUIRED.
2. SEE CALTRANS STANDARD PLAN 2022 FOR STRIPING AND PAVEMENT MARKING DETAILS.
3. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC, UNLESS OTHERWISE NOTED.
4. ALL PAVEMENT MARKINGS SHALL BE WHITE, UNLESS OTHERWISE NOTED.
5. ALL EXISTING PAVEMENT MARKINGS AND STRIPES THAT CONFLICT WITH THE NEW INSTALLATION SHALL BE REMOVED.
6. REFRESH ALL COLORED CURB (TWO COATS)

LEGEND:

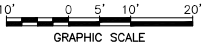
- DELINEATOR
- EXISTING SIGN
- PROPOSED SIGN

CONSTRUCTION NOTES:

(NO) TRAFFIC STRIPE DETAIL NO.



LOCATION 2 - ALAMEDA DE LAS PULGAS
SCALE: 1" = 10'

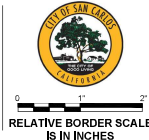


ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	GARRETT LOW
DESIGNED BY	M. BAJADA
DRAWN BY	M. BAJADA
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PROJECT NUMBER	C1807

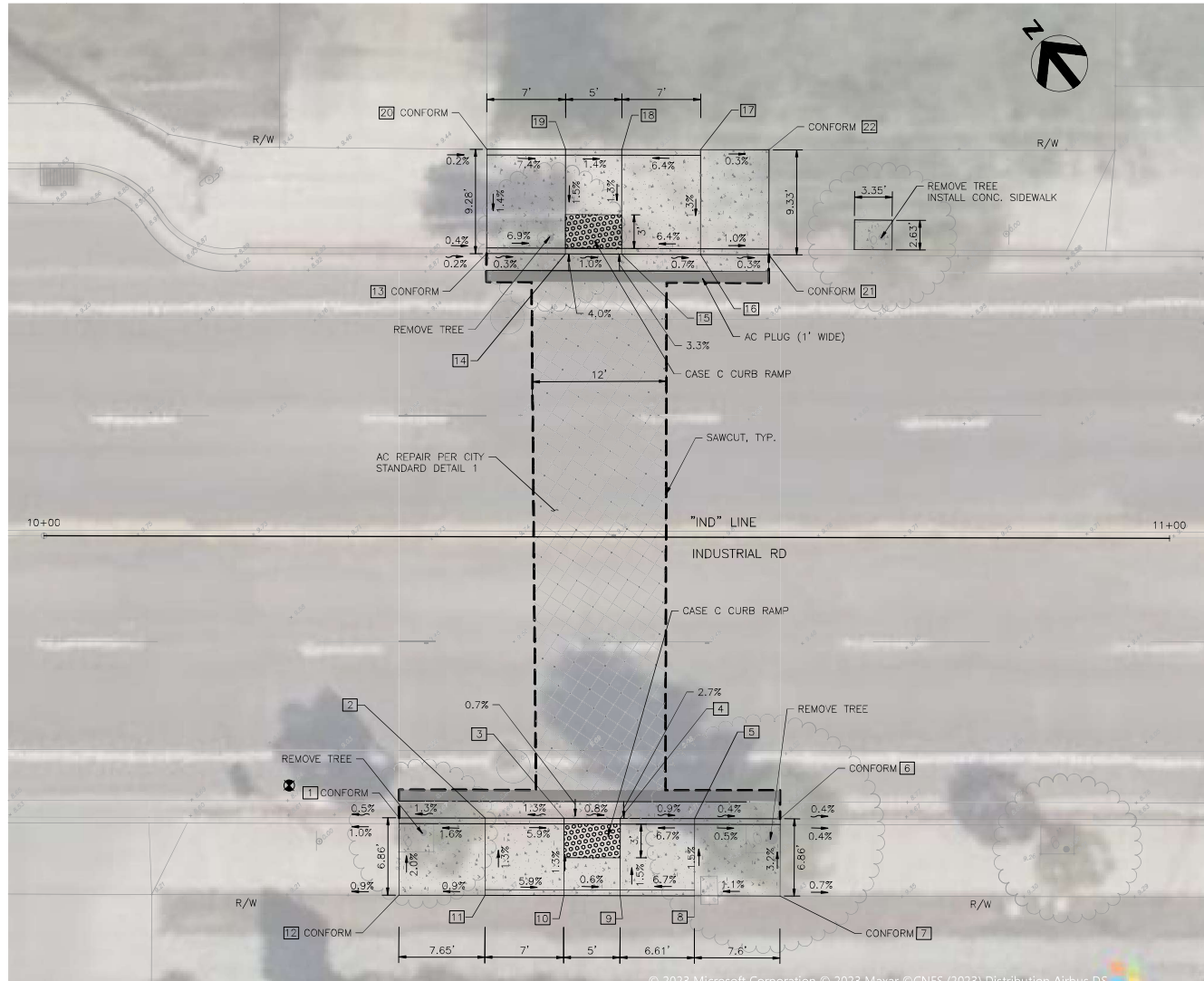


CITY OF SAN CARLOS
INSTALLATION OF RRFBS AT ALAMEDA
DE LAS PULGAS AND INDUSTRIAL ROAD
SIGNING AND STRIPING



DATE 11/01/23
SCALE 1" = 10'

SHEET
PD-2



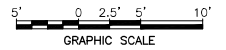
LOCATION 1 - INDUSTRIAL RD
SCALE: 1"=5'

NOTES:

1. SEE SHEET N-1 AND L-1 FOR ADDITIONAL NOTES, LEGENDS AND ABBREVIATIONS.
2. ALL CURB RAMPS MUST COMPLY WITH CALTRANS STANDARD PLAN A88A.
3. THE TOP OF RETAINING CURB SHALL CONFORM TO THE TOP OF EXISTING/PROPOSED SIDEWALK.
4. HMA PLUG SHALL BE 1" WIDE, TYPICAL.
5. SEE STANDARD DETAIL 6 AND 7 FOR STANDARD CURB, GUTTER, AND SIDEWALK DETAILS.

RIGHT SW			
#	LOCATION	DESCRIPTION	ELEVATION (FT)
1	25.00 Rt, 10+31.61	FL/TOC	8.66/9.14
2	25.00 Rt, 10+39.79	FL/TOC	8.76/9.26
3	25.00 Rt, 10+46.79	FL	8.85
4	25.00 Rt, 10+51.79	FL	8.81
5	25.00 Rt, 10+58.39	FL/TOC	8.75/9.25
6	25.00 Rt, 10+65.46	FL/TOC	8.72/9.21
7	31.86 Rt, 10+65.46	BOW	9.43
8	31.86 Rt, 10+58.39	BOW/TOC	9.35/9.35
9	31.86 Rt, 10+51.78	BOW/TOC	8.91/9.41
10	31.86 Rt, 10+46.78	BOW/TOC	8.94/9.44
11	31.86 Rt, 10+39.79	BOW/TOC	9.35/9.35
12	31.86 Rt, 10+31.61	BOW	9.28

LEFT SW			
#	LOCATION	DESCRIPTION	ELEVATION (FT)
13	25.16 Lt, 10+39.26	FL/TOC	8.79/9.25
14	25.15 Lt, 10+46.26	FL	8.77
15	25.14 Lt, 10+51.26	FL	8.72
16	25.13 Lt, 10+58.26	FL/TOC	8.67/9.17
17	34.44 Lt, 10+58.26	BOW/TOC	9.29/9.29
18	34.44 Lt, 10+51.26	BOW/TOC	8.84/9.34
19	34.44 Lt, 10+46.26	BOW/TOC	8.91/9.41
20	34.43 Lt, 10+39.26	BOW/TOC	9.43/9.43
21	25.11 Lt, 10+64.34	FL/TOC	8.65/9.11
22	34.45 Lt, 10+64.34	BOW	9.26

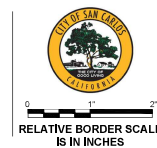


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DESIGNED BY	M. BAJADA
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CHECKED BY	A. SEKIKA
SUBMITTED BY	G. LOW
PROJECT NUMBER	C1807



CITY OF SAN CARLOS INSTALLATION OF RRFBs AT ALAMEDA DE LAS PULGAS AND INDUSTRIAL ROAD CONSTRUCTION DETAILS



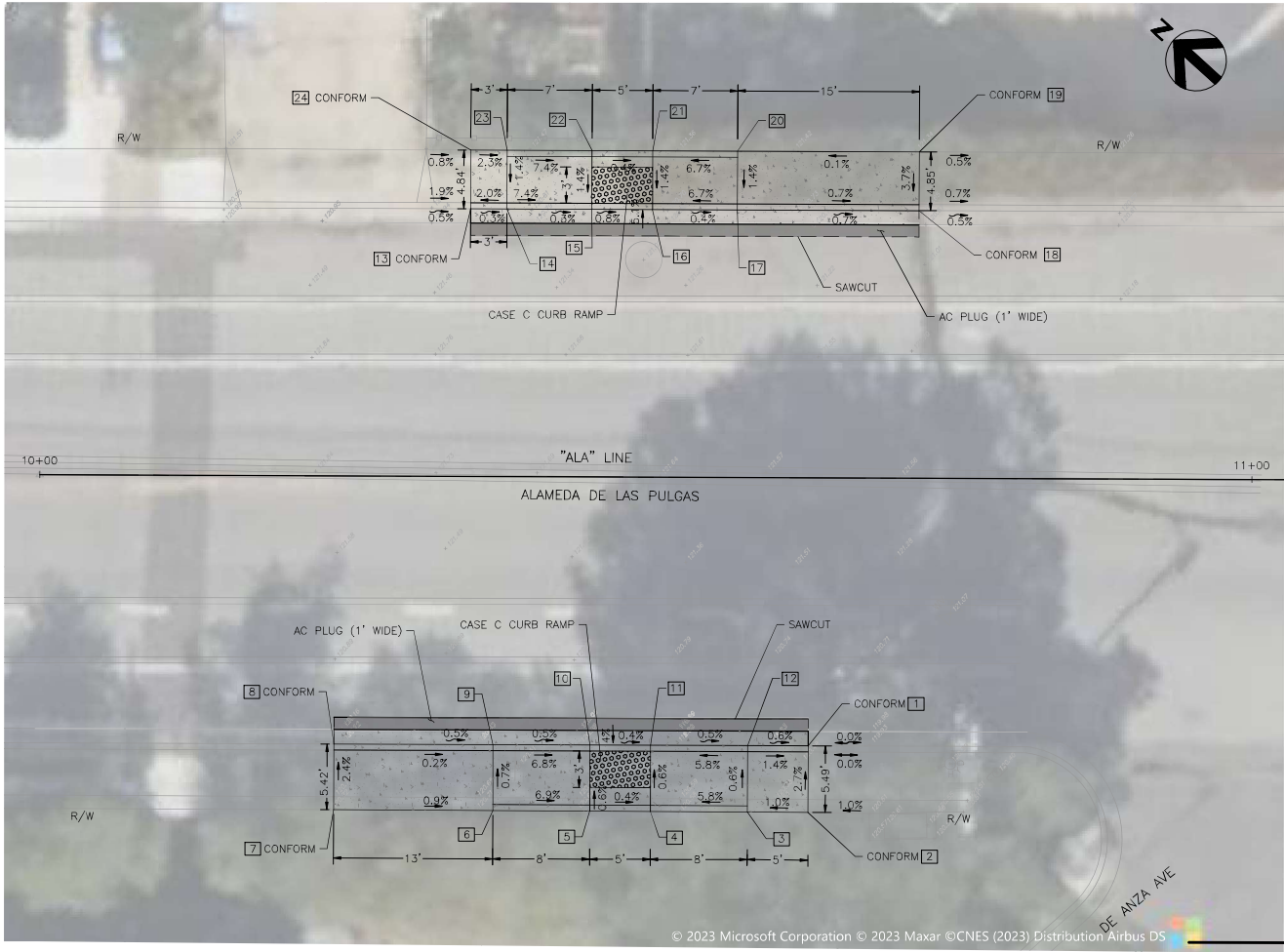
DATE 11/01/23
SCALE 1"=5'

SHEET
C-1

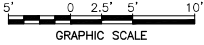
- NOTES:
1. SEE SHEET N-1 AND L-1 FOR ADDITIONAL NOTES, LEGENDS AND ABBREVIATIONS.
 2. ALL CURB RAMP MUST COMPLY WITH CALTRANS STANDARD PLAN A88A.
 3. THE TOP OF RETAINING CURB SHALL CONFORM TO THE TOP OF EXISTING/PROPOSED SIDEWALK.
 4. HMA PLUG SHALL BE 1" WIDE, TYPICAL.
 5. SEE STANDARD DETAIL 6 FOR STANDARD CURB, GUTTER, AND SIDEWALK DETAILS.

RIGHT SW			
#	LOCATION	DESCRIPTION	ELEVATION (FT)
1	22.12 R, 10+63.48	FL/TOC	119.93/120.39
2	27.61 R, 10+63.49	BOW	120.54
3	27.60 R, 10+58.49	BOW/TOC	120.49/120.49
4	27.59 R, 10+50.49	BOW/TOC	120.03/120.53
5	27.58 R, 10+45.49	BOW/TOC	120.05/120.55
6	27.57 R, 10+37.49	BOW/TOC	120.60/120.60
7	27.55 R, 10+24.35	BOW	120.72
8	22.13 R, 10+24.35	FL/TOC	120.12/120.59
9	22.12 R, 10+37.48	FL/TOC	120.06/120.56
10	22.12 R, 10+45.48	FL	120.02
11	22.12 R, 10+50.48	FL	120.00
12	22.12 R, 10+58.48	FL/TOC	119.96/120.46

LEFT SW			
#	LOCATION	DESCRIPTION	ELEVATION (FT)
13	22.08 L, 10+35.46	FL/TOC	120.85/121.28
14	22.08 L, 10+38.46	FL/TOC	120.84/121.34
15	22.08 L, 10+45.46	FL	120.82
16	22.08 L, 10+50.46	FL	120.78
17	22.08 L, 10+57.46	FL/TOC	120.75/121.25
18	22.08 L, 10+72.46	FL/TOC	120.65/121.14
19	26.92 L, 10+72.46	BOW	121.34
20	26.93 L, 10+57.46	BOW/TOC	121.32/121.32
21	26.92 L, 10+50.46	BOW/TOC	120.85/121.35
22	26.93 L, 10+45.46	BOW/TOC	120.89/121.39
23	26.93 L, 10+38.46	BOW/TOC	121.41/121.41
24	26.93 L, 10+35.46	BOW	121.48



LOCATION 2 - ALAMEDA DE LAS PULGAS
SCALE: 1"=5'

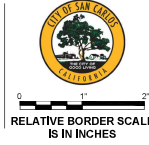


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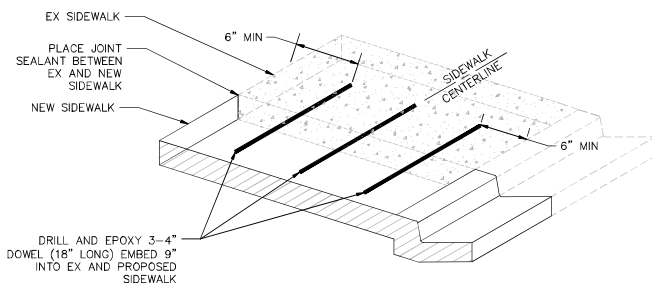
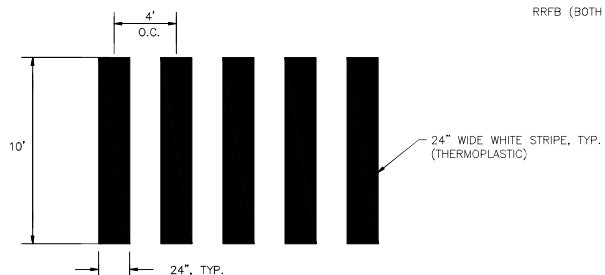


CITY OF SAN CARLOS
INSTALLATION OF RFBs AT ALAMEDA
DE LAS PULGAS AND INDUSTRIAL ROAD
CONSTRUCTION DETAILS

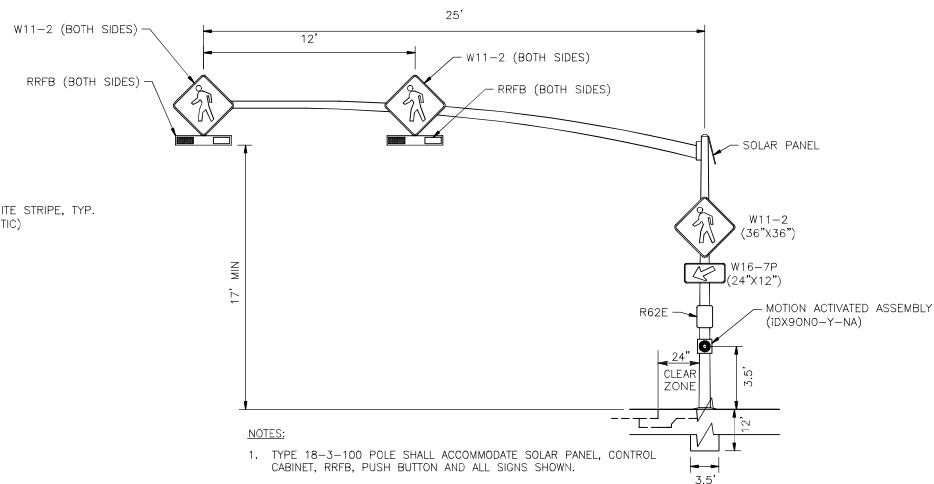


DATE 11/01/23
SCALE 1"=5'

SHEET
C-2

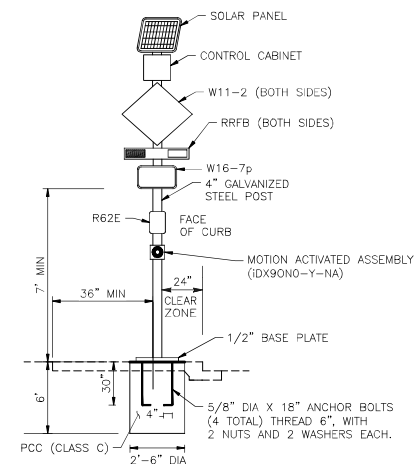


NOTES:
1. SEE CITY STANDARD DETAIL 6 FOR ADDITIONAL CONCRETE
SIDEWALK DETAILS



NOTES:

1. TYPE 18-3-100 POLE SHALL ACCOMMODATE SOLAR PANEL, CONTROL CABINET, RRFB, PUSH BUTTON AND ALL SIGNS SHOWN.
2. SEE CALTRANS STANDARD DETAILS ES-7E (TYPE 18-3-100 POLE) FOR ADDITIONAL DETAILS.
3. THE CONTRACTOR SHALL COORDINATE EXACT LOCATION OF NEW TYPE 18-3-100 POLES WITH CITY ENGINEER PRIOR TO INSTALLATION.




NOTES:

1. 1B POLE SHALL BE TALL ENOUGH TO ACCOMMODATE SOLAR PANELS, CONTROL CABINET, RFRS, PUSH BUTTON AND ALL SIGNS SHOWN.
2. SEE CALTRANS STANDARD DETAILS ES-7B (TYPE 1B POLE) AND ES-7M (HAND HOLE AND ANCHORAGE DETAILS) FOR ADDITIONAL POLE INSTALLATION DETAILS.
3. THE CONTRACTOR SHALL COORDINATE EXACT LOCATION OF NEW 1B POLES WITH CITY ENGINEER PRIOR TO INSTALLATION.

[illegible]

CITY OF SAN CARLOS
INSTALLATION OF RRFBs AT ALAMEDA
DE LAS PULGAS AND INDUSTRIAL ROAD
CONSTRUCTION DETAILS



0 1" 2"

RELATIVE BORDER SCALE
IS IN INCHES

DATE	11/01/23
SCALE	NO SCALE

SHEET
C-3



ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	GARRETT LOW
DESIGNED BY	M. BAJADA
DRAWN BY	M. BAJADA
CHECKED BY	A. SEKIOKA
SUBMITTED BY	G. LOW
PROJECT NUMBER	C1807



CITY OF SAN CARLOS
INSTALLATION OF RRFBS AT ALAMEDA
DE LAS PULGAS AND INDUSTRIAL ROAD
CONSTRUCTION DETAILS

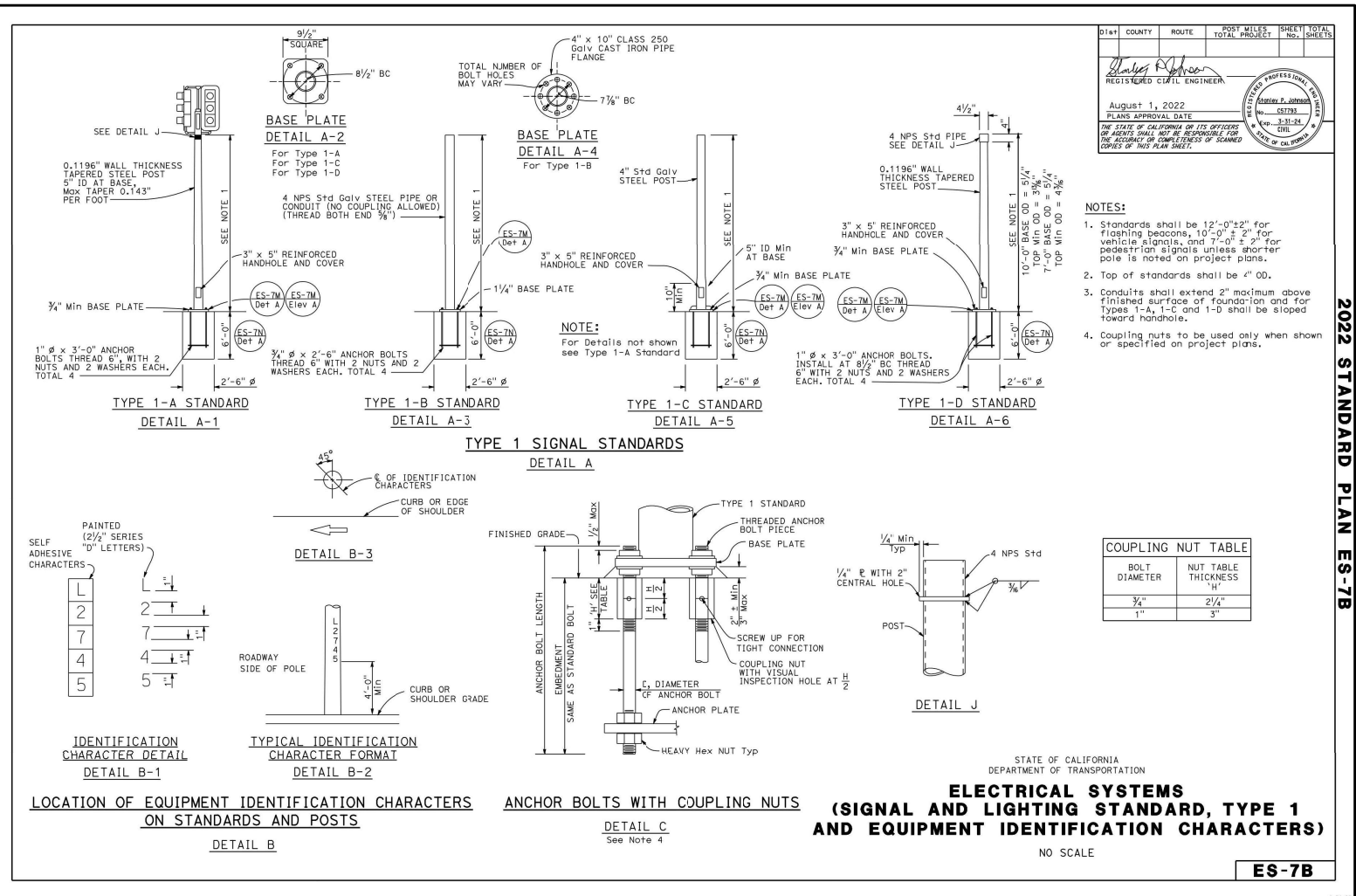


0 1' 2'
RELATIVE BORDER SCALE
IS IN INCHES

DATE 11/01/23
SCALE NO SCALE

SHEET
C-4

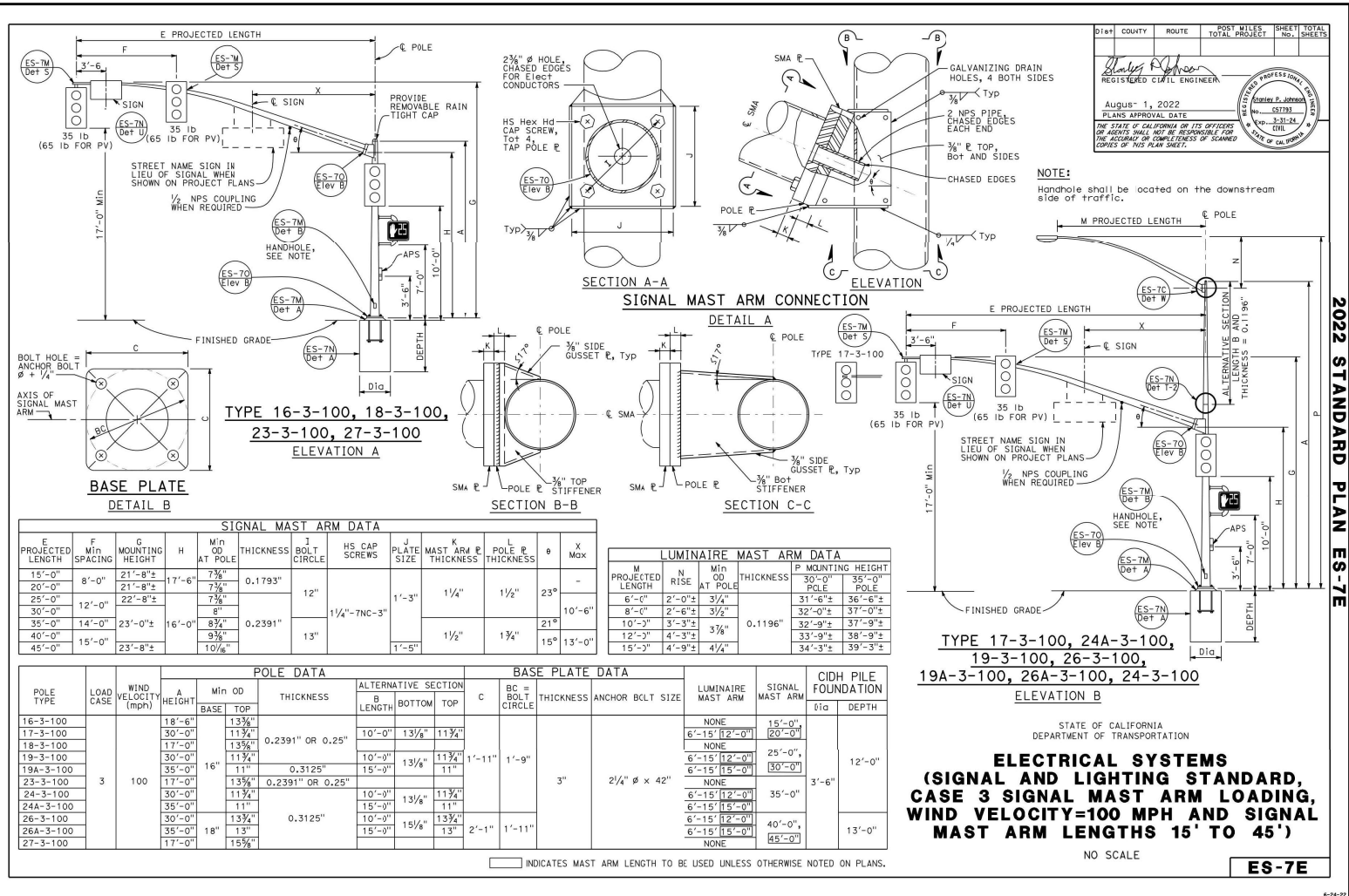
ES-15



ELECTRICAL SYSTEMS (CALTRANS)
NTS

1
C-4

548

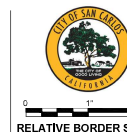


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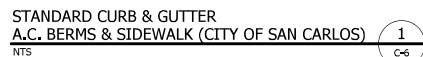


CITY OF SAN CARLOS
INSTALLATION OF RRFBS AT ALAMEDA
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DATE 11/01/23
SCALE NO SCALE

SHEET
C-5



CONCRETE GENERAL NOTES (CITY OF SAN CARLOS) 2
NTS C-6



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0 1" 2"

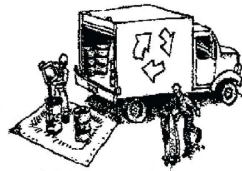
RELATIVE BORDER SCALE
IS IN INCHES

SHEET
C-6

Construction Best Management Practices (BMPs)

Construction projects are required to implement the stormwater best management practices (BMP) on this page, as they apply to your project, all year long.

Materials & Waste Management



Non-Hazardous Materials

- ❑ Berm and cover stockpiles of sand, dirt or other construction material with tarps when rain is forecast or if not actively being used within 14 days.
- ❑ Use (but don't overuse) reclaimed water for dust control.

Hazardous Materials

- ❑ Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state and federal regulations.
- ❑ Store hazardous materials and wastes in tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecast.
- ❑ Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
- ❑ Arrange for appropriate disposal of all hazardous wastes.

Waste Management

- ❑ Cover waste disposal containers securely with tarps at the end of every work day and during wet weather.
- ❑ Check waste disposal containers frequently for leaks and to make sure they are not overfilled. Never hose down a dumpster on the construction site.
- ❑ Clean or replace portable toilets, and inspect them frequently for leaks and spills.
- ❑ Dispose of all wastes and debris properly. Recycle materials and wastes that can be recycled (such as asphalt, concrete, aggregate base materials, wood, gyp board, pipe, etc.)
- ❑ Dispose of liquid residues from paints, thinners, solvents, glues, and cleaning fluids as hazardous waste.

Construction Entrances and Perimeter

- ❑ Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.
- ❑ Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking. Never hose down streets to clean up tracking.

Equipment Management & Spill Control



Maintenance and Parking

- ❑ Designate an area, fitted with appropriate BMPs, for vehicle and equipment parking and storage.
- ❑ Perform major maintenance, repair jobs, and vehicle and equipment washing off site.
- ❑ If refueling or vehicle maintenance must be done onsite, work in a bermed area away from storm drains and over a drip pan or drop cloth big enough to collect fluids. Recycle or dispose of fluids as hazardous waste.
- ❑ If vehicle or equipment cleaning must be done onsite, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or surface waters.
- ❑ Do not clean vehicle or equipment onsite using soaps, solvents, degreasers, or steam cleaning equipment.

Spill Prevention and Control

- ❑ Keep spill cleanup materials (e.g., rags, absorbents and cat litter) available at the construction site at all times.
- ❑ Inspect vehicles and equipment frequently for and repair leaks promptly. Use drip pans to catch leaks until repairs are made.
- ❑ Clean up spills or leaks immediately and dispose of cleanup materials properly.
- ❑ Do not hose down surfaces where fluids have spilled. Use dry cleanup methods (absorbent materials, cat litter, and/or rags).
- ❑ Sweep up spilled dry materials immediately. Do not try to wash them away with water, or bury them.
- ❑ Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- ❑ Report significant spills immediately. You are required by law to report all significant releases of hazardous materials, including oil. To report a spill: 1) Dial 911 or your local emergency response number, 2) Call the Governor's Office of Emergency Services Warning Center, (800) 852-7550 (24 hours).

Earthmoving



- ❑ Schedule grading and excavation work during dry weather.
- ❑ Stabilize all denuded areas, install and maintain temporary erosion controls (such as erosion control fabric or bonded fiber matrix) until vegetation is established.
- ❑ Remove existing vegetation only when absolutely necessary, and seed or plant vegetation for erosion control on slopes or where construction is not immediately planned.
- ❑ Prevent sediment from migrating offsite and protect storm drain inlets, gutters, ditches, and drainage courses by installing and maintaining appropriate BMPs, such as fiber rolls, silt fences, sediment basins, gravel bags, berms, etc.
- ❑ Keep excavated soil on site and transfer it to dump trucks on site, not in the streets.

Contaminated Soils

- ❑ If any of the following conditions are observed, test for contamination and contact the Regional Water Quality Control Board:
 - Unusual soil conditions, discoloration, or odor
 - Abandoned underground tanks.
 - Abandoned wells
 - Buried barrels, debris, or trash.

Paving/Asphalt Work



- ❑ Avoid paving and seal coating in wet weather or when rain is forecast, to prevent materials that have not cured from contacting stormwater runoff.
- ❑ Cover storm drain inlets and manholes when applying seal coat, tack coat, slurry seal, fog seal, etc.
- ❑ Collect and recycle or appropriately dispose of excess abrasive gravel or sand. Do NOT sweep or wash it into gutters.
- ❑ Do not use water to wash down fresh asphalt concrete pavement.

Sawcutting & Asphalt/Concrete Removal

- ❑ Protect nearby storm drain inlets when saw cutting. Use filter fabric, catch basin inlet filters, or gravel bags to keep slurry out of the storm drain system.
- ❑ Shovel, absorb, or vacuum saw-cut slurry and dispose of all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- ❑ If sawcut slurry enters a catch basin, clean it up immediately.

Concrete, Grout & Mortar Application



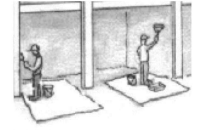
- ❑ Store concrete, grout, and mortar away from storm drains or waterways, and on pallets under cover to protect them from rain, runoff, and wind.
- ❑ Wash out concrete equipment/trucks offsite or in a designated washout area, where the water will flow into a temporary waste pit, and in a manner that will prevent leaching into the underlying soil or onto surrounding areas. Let concrete harden and dispose of as garbage.
- ❑ When washing exposed aggregate, prevent wastewater from entering storm drains. Block any inlets and vacuum gutters, hose washwater onto dirt areas, or drain onto a bermed surface to be pumped and disposed of properly.

Landscaping



- ❑ Protect stockpiled landscaping materials from wind and rain by storing them under tarps all year-round.
- ❑ Stack bagged material on pallets and under cover.
- ❑ Discontinue application of any erodible landscape material within 2 days before a forecast rain event or during wet weather.

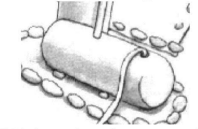
Painting & Paint Removal



Painting Cleanup and Removal

- ❑ Never clean brushes or rinse paint containers into a street, gutter, storm drain, or stream.
- ❑ For water-based paints, paint out brushes to the extent possible, and rinse into a drain that goes to the sanitary sewer. Never pour paint down a storm drain.
- ❑ For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of excess liquids as hazardous waste.
- ❑ Paint chips and dust from non-hazardous dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash.
- ❑ Chemical paint stripping residue and chips and dust from marine paints or paints containing lead, mercury, or tributyltin must be disposed of as hazardous waste. Lead based paint removal requires a state-certified contractor.

Dewatering



- ❑ Discharges of groundwater or captured runoff from dewatering operations must be properly managed and disposed. When possible send dewatering discharge to landscaped area or sanitary sewer. If discharging to the sanitary sewer call your local wastewater treatment plant.
- ❑ Divert run-off water from offsite away from all disturbed areas.
- ❑ When dewatering, notify and obtain approval from the local municipality before discharging water to a street gutter or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- ❑ In areas of known or suspected contamination, call your local agency to determine whether the ground water must be tested. Pumped groundwater may need to be collected and hauled off-site for treatment and proper disposal.

Storm drain polluters may be liable for fines of up to \$10,000 per day!



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0 1" 2"
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SHEET
BMP-1