

(OPPOSITE QUADRANTS IDENTICAL)

- NOTES:**
- THE STANDARDS ARE FOR GUIDANCE AND TO INDICATE INTENT. SINCE THE ACTUAL DESIGN WILL TYPICALLY BE SITE SPECIFIC, COLLABORATE CLOSELY WITH CALTRAIN DURING DESIGN.
 - PAVEMENT MARKINGS SHALL CONFORM TO LATEST CALTRANS AND LOCAL JURISDICTION STANDARDS. FOLLOW THE CALIFORNIA MUTCD FOR STRIPPING, SIGNAGE AND OTHER TRAFFIC WARNING DEVICES. ADDITIONAL DEVICES MAY BE REQUIRED BY LOCAL AGENCIES.
 - TO MINIMIZE CROSSING DISTANCE, THE PEDESTRIAN GATE SHALL BE PARALLEL TO TRACKS. ALIGN WITH EITHER SIDE OF THE VEHICULAR GATE COUNTER WEIGHT, AND PROVIDE MINIMUM 12 FEET DISTANCE BETWEEN TRACK CENTER AND CENTER OF PED SIGNAL MAST.
 - REFERENCED DRAWINGS:
 - FOR SWING GATE AND GUARD RAILING: SEE SD-7005 AND SD-7006.
 - FOR "NO TRESPASSING/SUICIDE PREVENTION" SIGNAGE (RW-4): SEE SD-3352.
 - FOR SIGNS (GC-1 & GC-2) MOUNTED ON THE SWING GATE: SEE SD-7006.
 - FOR WARNING TACTILE: SEE SD-3500, IN-LINE DOME DESIGN. ALIGN GROOVE WITH DIRECTION OF TRAVEL PATH AS REQUIRED.
 - FENCING:
 - EXTEND TO EXISTING ADJACENT STRUCTURES (BUILDINGS, ETC.) TO CLOSE ANY GAPS.
 - IN ABSENCE OF EXISTING ROW FENCE, PROVIDE MINIMUM 50 FT OF FENCE IN LENGTH FROM CROSSING. INSTALL 4' HIGH FENCING TO FACILITATE DOWN TRACK VISIBILITY FROM RAILROAD CROSSING WALKWAY. INSTALL FENCE AT PROPERTY LINE.
 - USE 4 FT WHEN THE COUNTER WEIGHTS ARE THE OBLONG TYPE (AS OPPOSED TO SQUARE). THIS TYPICALLY OCCURS WHEN THE ROADWAY IS OF 2 LANES OR MORE IN EACH DIRECTION. (SET GAP TO 6" ± 1" WHEN GATE IS DOWN AND COUNTER WEIGHTS ARE UP. FIELD VERIFY.)

NOT APPLICABLE FOR FOUR-QUAD GATE SYSTEM


REV	DATE	BY	CHK	APP	DESCRIPTION

PENINSULA CORRIDOR JOINT POWERS BOARD

APPROVED BY:

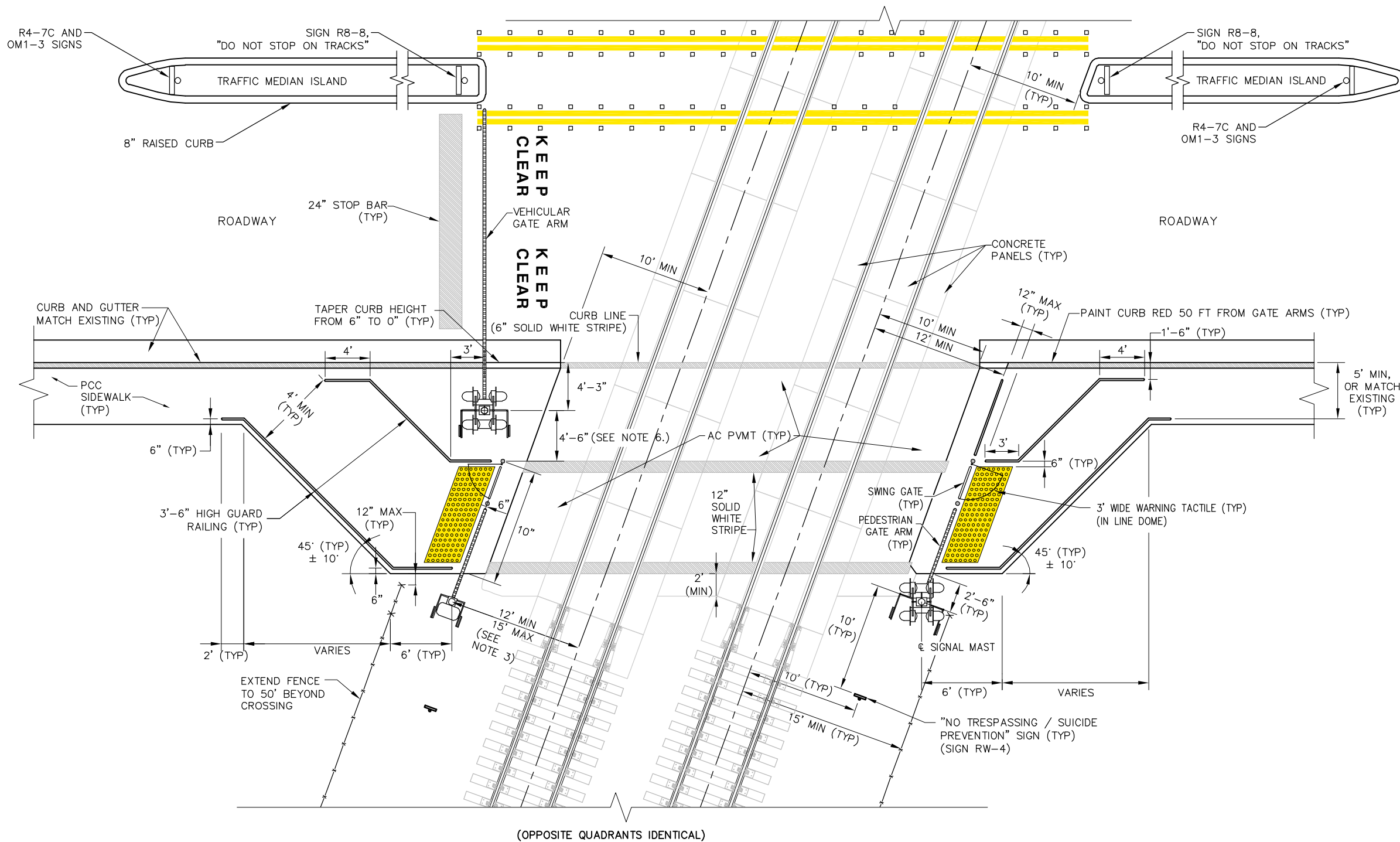
Bin Zhang

DEPUTY DIRECTOR, ENGINEERING



1250 San Carlos Avenue
San Carlos, CA 94070

STANDARD DRAWINGS		CADD FILE NAME:
		SD-7001
REV:	EDITION:	
	FOURTH	
GRADE CROSSINGS SIDEWALKS AND CROSSINGS PEDESTRIAN SIDEWALK AT RIGHT ANGLE INTERSECTION		
STANDARD DRAWING NO.:		SD-7001



- NOTES:**
- THE STANDARDS ARE FOR GUIDANCE AND TO INDICATE INTENT. SINCE THE ACTUAL DESIGN WILL TYPICALLY BE SITE SPECIFIC, COLLABORATE CLOSELY WITH CALTRAIN DURING DESIGN.
 - PAVEMENT MARKINGS SHALL CONFORM TO LATEST CALTRANS AND LOCAL JURISDICTION STANDARDS. FOLLOW THE CALIFORNIA MUTCD FOR STRIPPING, SIGNAGE AND OTHER TRAFFIC WARNING DEVICES. ADDITIONAL DEVICES MAY BE REQUIRED BY LOCAL AGENCIES.
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 - USE 4 FT WHEN THE COUNTER WEIGHTS ARE THE OBLONG TYPE (AS OPPOSED TO SQUARE). THIS TYPICALLY OCCURS WHEN THE ROADWAY IS OF 2 LANES OR MORE IN EACH DIRECTION. (SET GAP TO 6" ± 1" WHEN GATE IS DOWN AND COUNTER WEIGHTS ARE UP. FIELD VERIFY.)

NOT APPLICABLE FOR FOUR-QUAD GATE SYSTEM

PENINSULA CORRIDOR JOINT POWERS BOARD

STANDARD DRAWINGS

CADD FILE NAME: SD-7002	
REV:	EDITION: FOURTH
GRADE CROSSINGS	
STANDARD DRAWING NO.: SD-7002	

APPROVED BY:

Bin Zhang

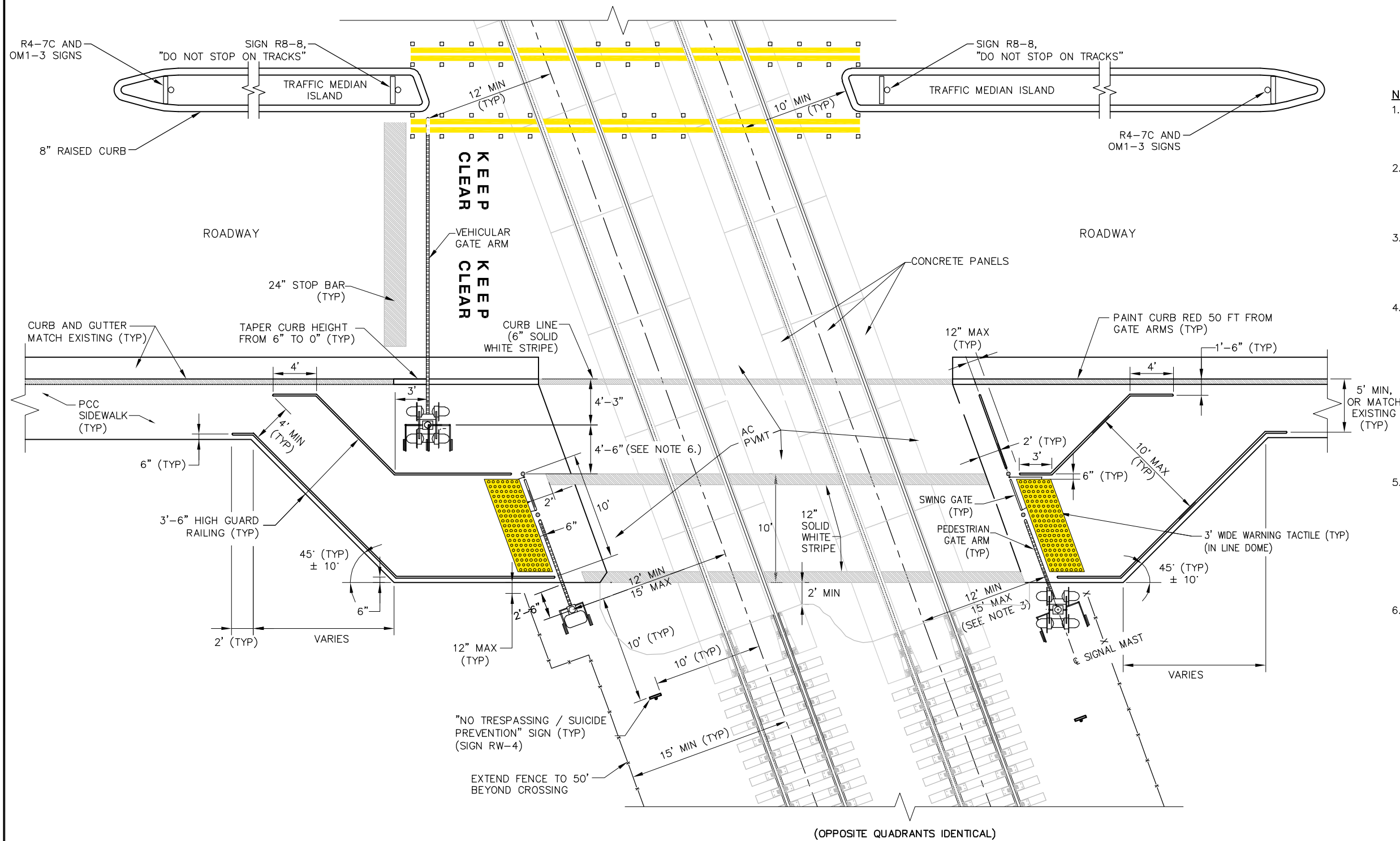
DEPUTY DIRECTOR, ENGINEERING



GRADE CROSSINGS
SIDEWALKS AND CROSSINGS
PEDESTRIAN SIDEWALK AT
ACUTE ANGLE INTERSECTION

REV	DATE	BY	CHK	APP	DESCRIPTION

01012024 FOURTH EDITION



NOTES:

1. THE STANDARDS ARE FOR GUIDANCE AND TO INDICATE INTENT. SINCE THE ACTUAL DESIGN WILL TYPICALLY BE SITE SPECIFIC, COLLABORATE CLOSELY WITH CALTRAIN DURING DESIGN.
2. PAVEMENT MARKINGS SHALL CONFORM TO LATEST CALTRANS AND LOCAL JURISDICTION STANDARDS. FOLLOW THE CALIFORNIA MUTCD FOR STRIPPING, SIGNAGE AND OTHER TRAFFIC WARNING DEVICES. ADDITIONAL DEVICES MAY BE REQUIRED BY LOCAL AGENCIES.
3. TO MINIMIZE CROSSING DISTANCE, THE PEDESTRIAN GATE SHALL BE PARALLEL TO TRACKS. ALIGN WITH EITHER SIDE OF THE VEHICULAR GATE COUNTER WEIGHT, AND PROVIDE MINIMUM 12 FEET DISTANCE BETWEEN TRACK CENTER AND CENTER OF PED SIGNAL MAST.
4. REFERENCED DRAWINGS:
 - FOR SWING GATE AND GUARD RAILING: SEE SD-7005 AND SD-7006.
 - FOR "NO TRESPASSING/SUICIDE PREVENTION" SIGNAGE (RW-4): SEE SD-3352.
 - FOR SIGNS (GC-1 & GC-2) MOUNTED ON THE SWING GATE: SEE SD-7006.
 - FOR WARNING TACTILE: SEE SD-3500, IN-LINE DOME DESIGN. ALIGN GROOVE WITH DIRECTION OF TRAVEL PATH AS REQUIRED.
5. FENCING:
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 - IN ABSENCE OF EXISTING ROW FENCE, PROVIDE MINIMUM 50 FT OF FENCE IN LENGTH FROM CROSSING. INSTALL 4' HIGH FENCING TO FACILITATE DOWN TRACK VISIBILITY FROM RAILROAD CROSSING WALKWAY. INSTALL FENCE AT PROPERTY LINE.
6. USE 4 FT WHEN THE COUNTER WEIGHTS ARE THE OBLONG TYPE (AS OPPOSED TO SQUARE). THIS TYPICALLY OCCURS WHEN THE ROADWAY IS OF 2 LANES OR MORE IN EACH DIRECTION. (SET GAP TO 6" ± 1" WHEN GATE IS DOWN AND COUNTER WEIGHTS ARE UP. FIELD VERIFY.)

(OPPOSITE QUADRANTS IDENTICAL)

NOT APPLICABLE FOR FOUR-QUAD GATE SYSTEM

REV	DATE	BY	CHK	APP	DESCRIPTION

PENINSULA CORRIDOR JOINT POWERS BOARD

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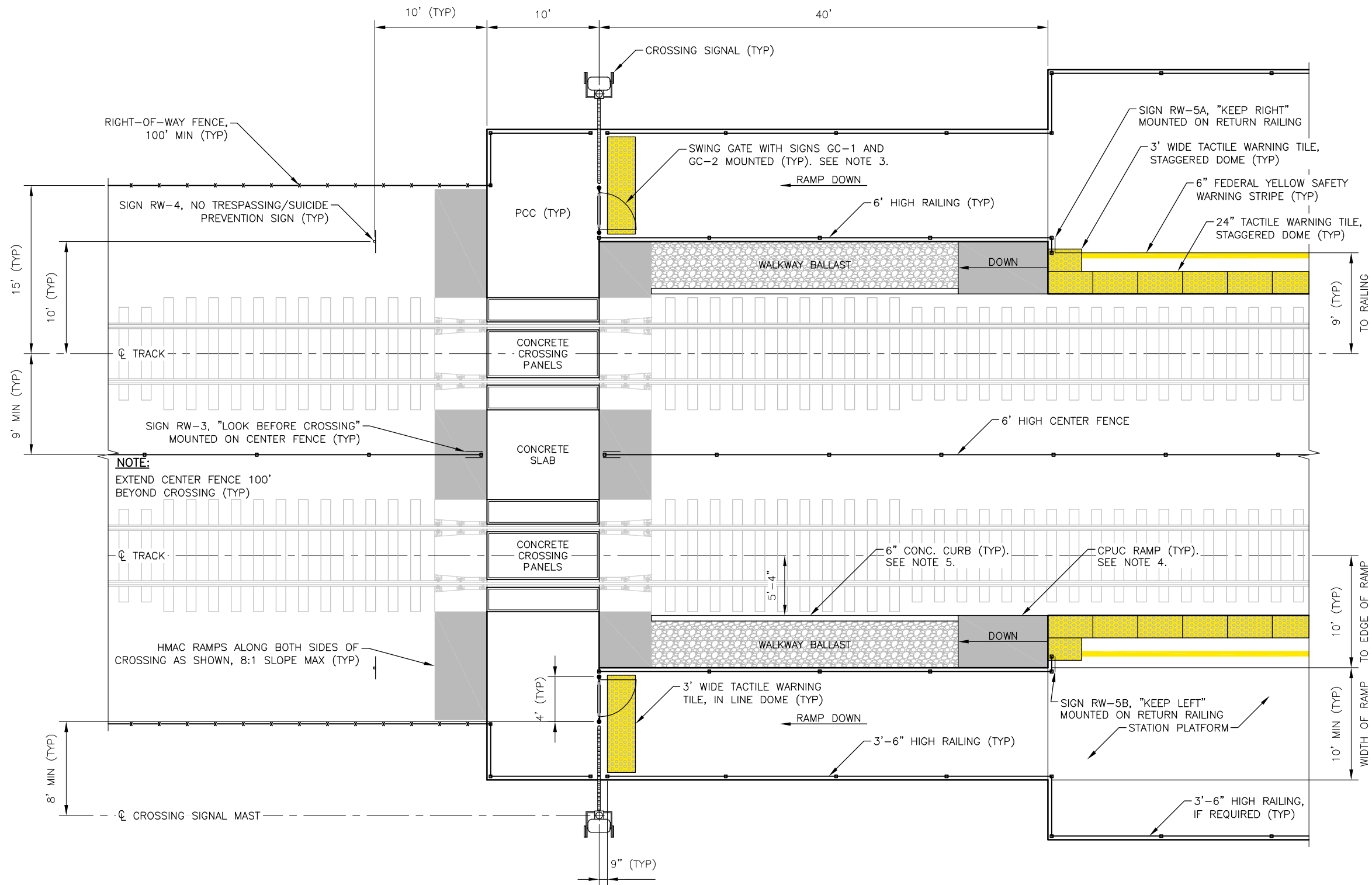
Bin Zhang

DEPUTY DIRECTOR, ENGINEERING

STANDARD DRAWINGS

GRADE CROSSINGS
SIDEWALKS AND CROSSINGS
PEDESTRIAN SIDEWALK AT
OBTUSE ANGLE INTERSECTION

CADD FILE NAME: SD-7003
REV: EDITION: FOURTH
STANDARD DRAWING NO.: SD-7003



- NOTES:**
1. THE STANDARDS ARE FOR GUIDANCE AND TO INDICATE INTENT. SINCE THE ACTUAL DESIGN WILL TYPICALLY BE SITE SPECIFIC, COLLABORATE CLOSELY WITH CALTRAIN DURING DESIGN.
 2. FOLLOW CALIFORNIA MUTCD FOR STRIPING, MARKING AND OTHER WARNING DEVICES. ADDITIONAL DEVICES MAY BE REQUIRED BY LOCAL AGENCIES.
 3. REFERENCED DRAWINGS:
 - SWING GATE AND GUARD RAILING: SEE SD-7005 AND SD-7006.
 - "NO TRESPASSING/SUICIDE PREVENTION" SIGNAGE (RW-4): SEE SD-3352.
 - "LOOK BEFORE CROSSING" SIGN: SEE SD-3350.
 - SIGNS (GC-1 AND GC-2) MOUNTED ON THE SWING GATE: SEE SD-7006.
 - WARNING TACTILE TILES: SEE SD-3500 FOR IN-LINE DOME AND STAGGERED DOME DESIGNS.
 4. CONCRETE CPUC RAMP: 3'-6" WIDE MINIMUM, 8:1 SLOPE MAXIMUM. SEE SD-3051.
 5. 6" WIDE CONCRETE CURB WITH 12" MINIMUM EMBEDMENT. TOP ELEVATION FLUSH WITH ADJACENT RAMP. INFILL AREA WITH WALKWAY BALLAST.


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PENINSULA CORRIDOR JOINT POWERS BOARD

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Bin Zhang

DEPUTY DIRECTOR, ENGINEERING



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San Carlos, CA 94070

STANDARD DRAWINGS

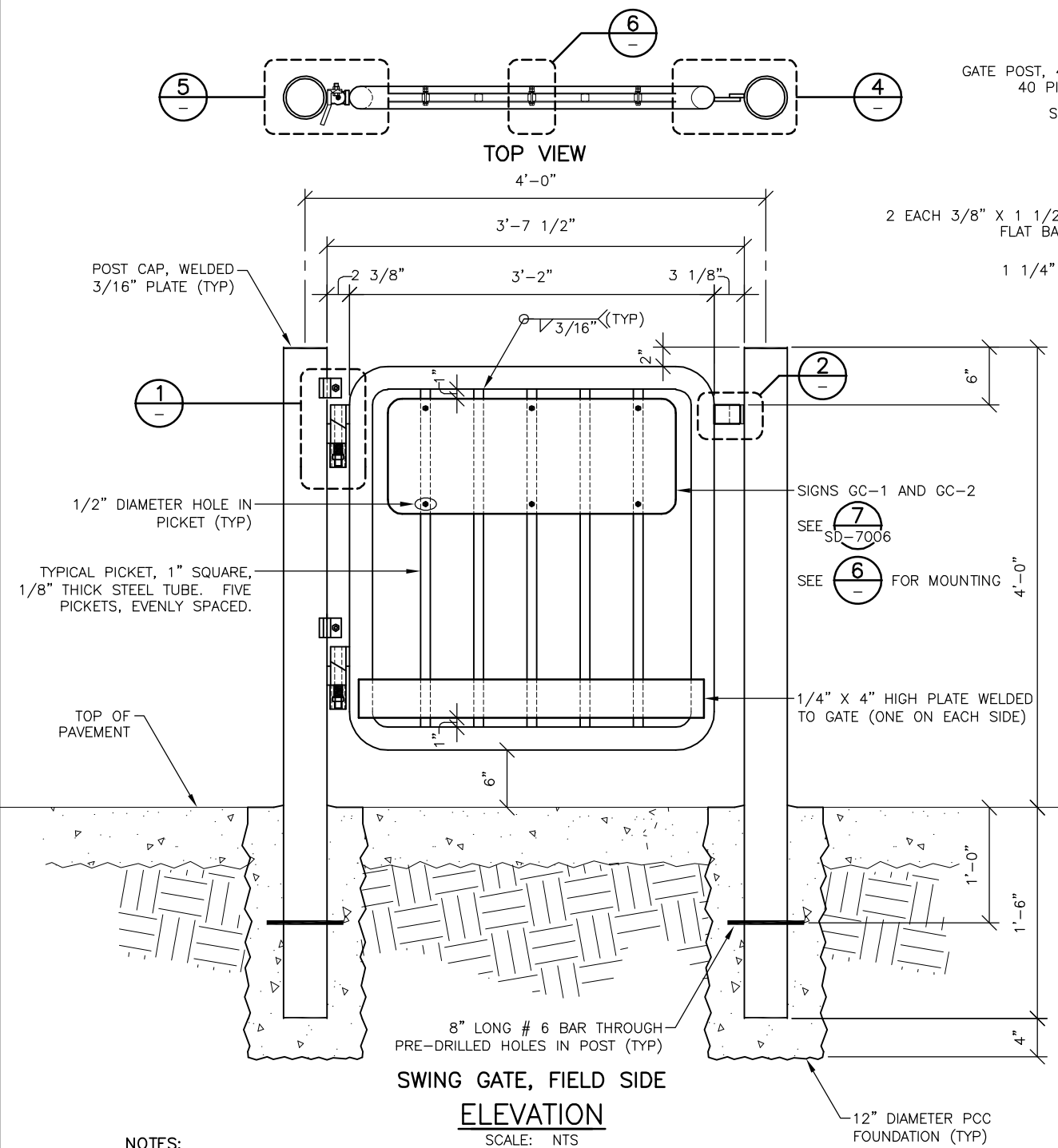
**GRADE CROSSINGS
SIDEWALKS AND CROSSINGS
PEDESTRIAN CROSSING AT STATIONS
CROSSINGS PATHWAY LAYOUT**

CADD FILE NAME: SD-7004

REV: EDITION: FOURTH

GRADE CROSSINGS

STANDARD DRAWING NO.: SD-7004



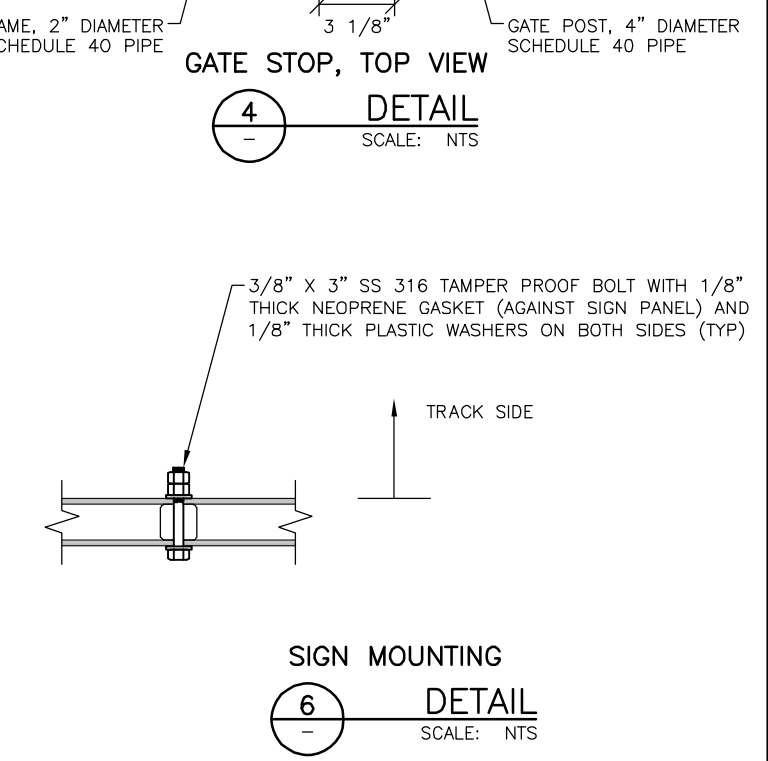
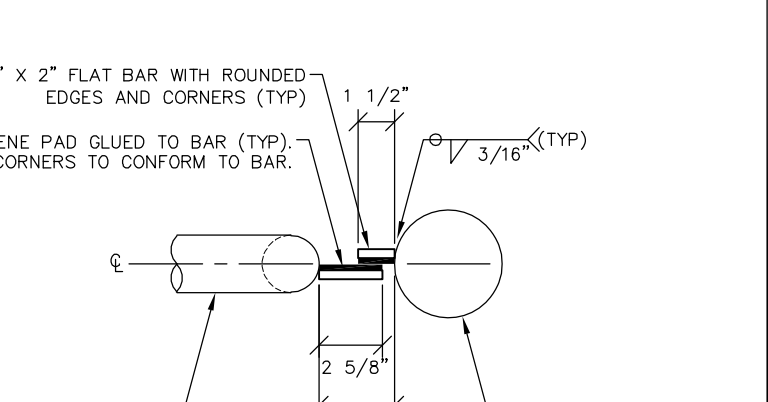
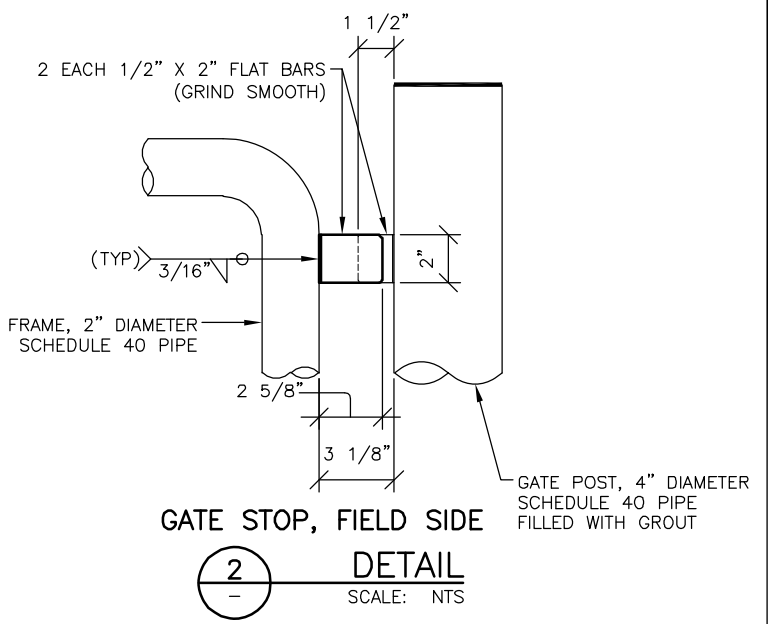
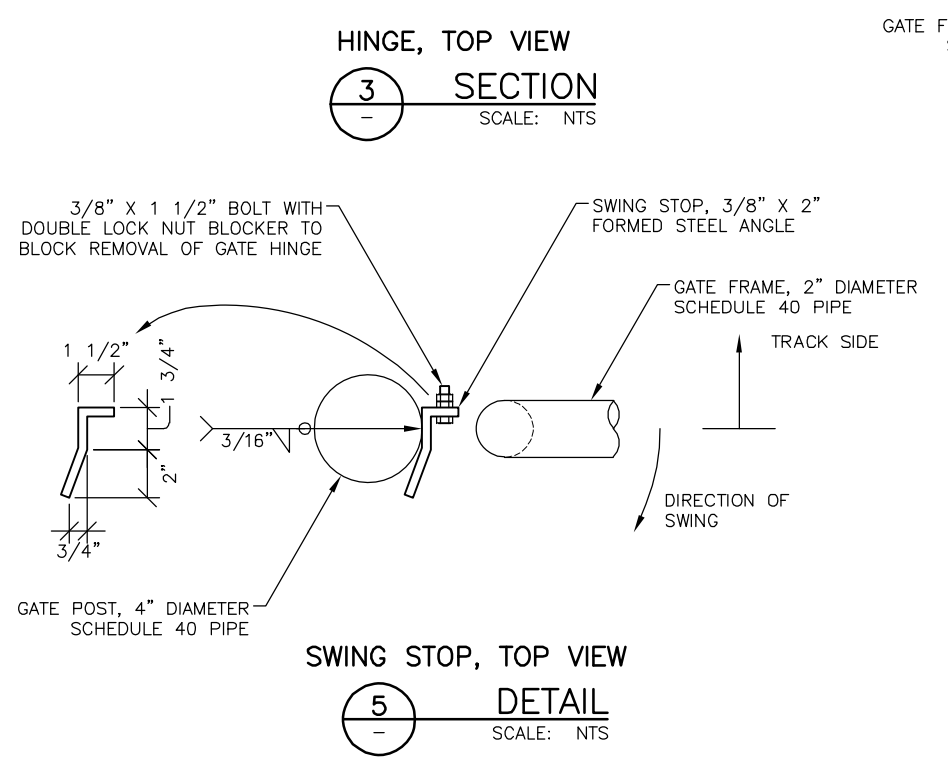
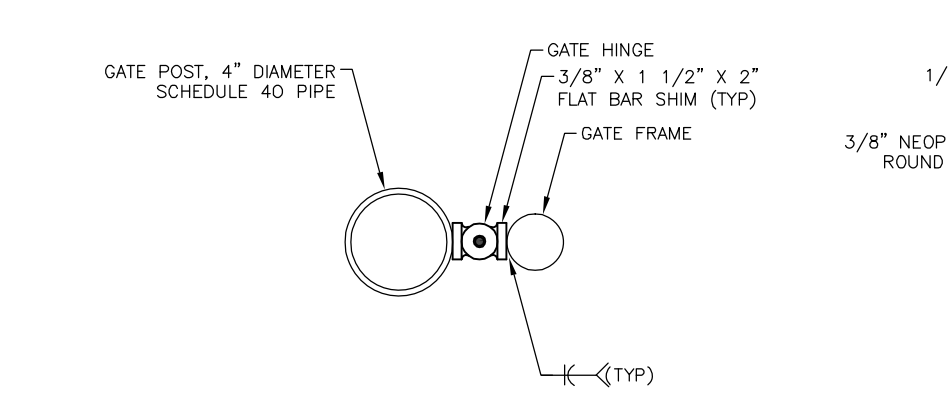
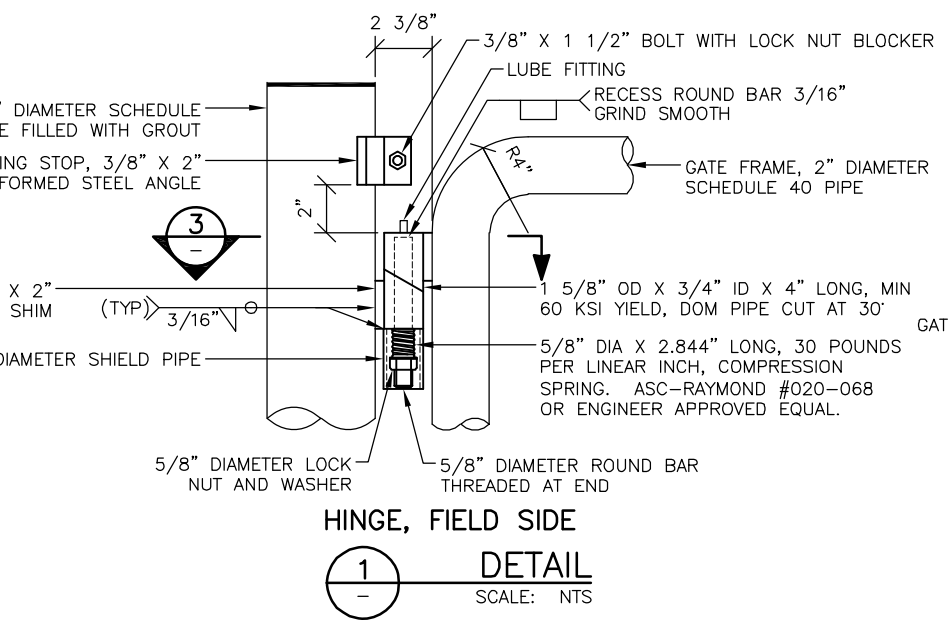
NOTES:

1. ALL MATERIAL (EXCEPT SIGN PANELS) SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION AND PAINTED FEDERAL SAFETY YELLOW (FS 33538.)
2. USE TAMPER PROOF BOLTS FOR MOUNTING SIGN PANELS.
3. 4" GATE POST SHALL BE FILLED WITH GROUT.

WORKMANSHIP:

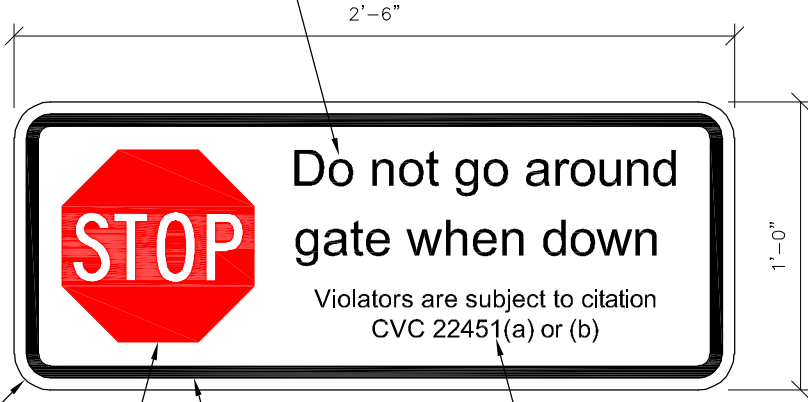
1. POSTS, GATE AND HINGES SHALL BE ACCURATELY POSITIONED, PLUMBED, LEVELED, SQUARED AND ALIGNED. FOR GATES TO FUNCTION PROPERLY, A HIGH DEGREE OF WORKMANSHIP IN THEIR FABRICATION AND INSTALLATION IS REQUIRED.
2. FABRICATE A COMPLETE MOCK-UP OF THE GATE FOR ENGINEER'S APPROVAL. THE APPROVED MOCK-UP SHALL SERVE AS THE STANDARD FOR ALL GATES FABRICATED AND INSTALLED AS PART OF THE PROJECT.

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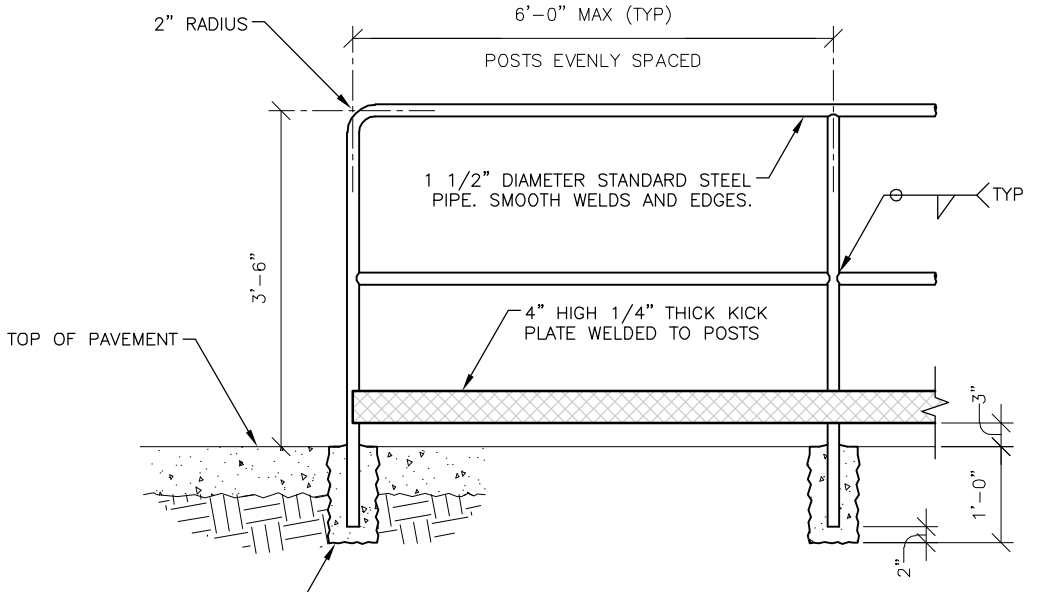
PENINSULA CORRIDOR JOINT POWERS BOARD		STANDARD DRAWINGS		CADD FILE NAME: SD-7005
APPROVED BY: <i>Bin Zhang</i> DEPUTY DIRECTOR, ENGINEERING				REV: EDITION: FOURTH
1250 San Carlos Avenue San Carlos, CA 94070		GRADE CROSSINGS PEDESTRIAN CROSSING GATE, RAILING AND SIGNAGE SHEET 1 OF 2		STANDARD DRAWING NO.: SD-7005

BLACK VINYL LETTERS. 1 1/2" HIGH HELVETICA NEUE 65 MEDIUM UPPER AND LOWER CASE.

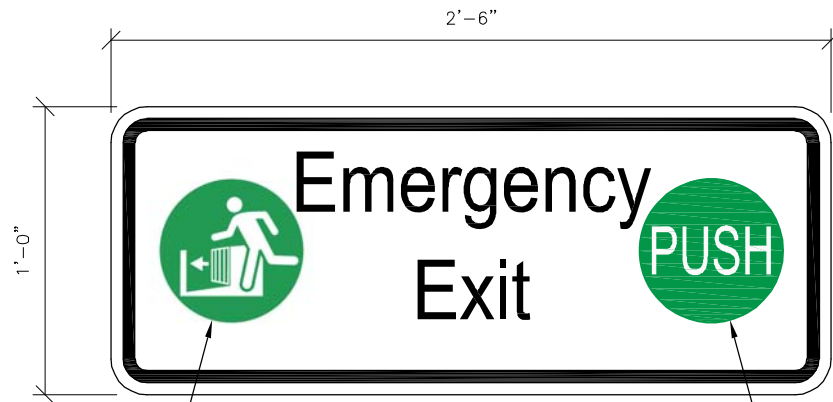


1 1/2" RADIUS (TYP)
8" OCTAGONAL RED STOP SIGN SYMBOL. FEDERAL SAFETY RED (FS 21105 OR 21310) WITH 4" HIGH WHITE HELVETICA MEDIUM UPPER CASE LETTERING.
1/2" WIDE BLACK BORDER 1/2" IN FROM EDGE OF SIGN
BLACK VINYL LETTERS. 3/4" HIGH HELVETICA MEDIUM UPPER AND LOWER CASE.

FIELD SIDE SIGN (GC-1)

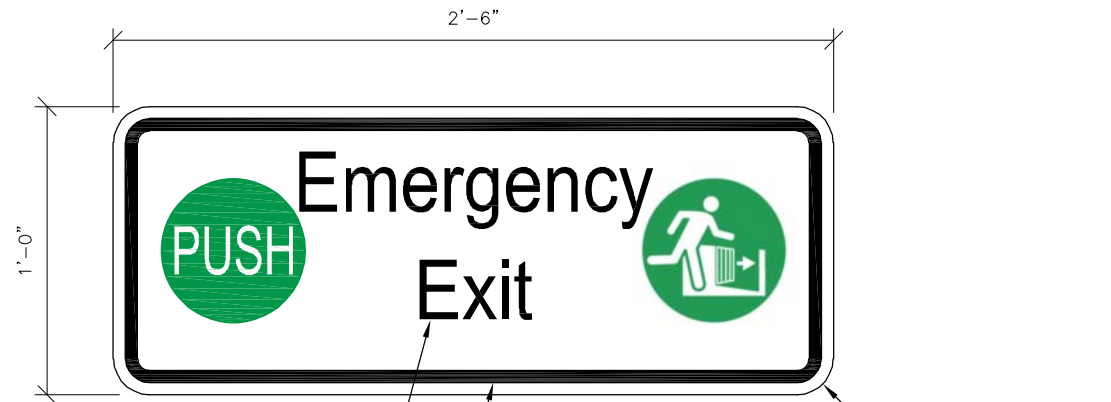


GUARD RAILING WITH KICK PLATE ELEVATION SCALE: NTS



6" DIAMETER EXIT SYMBOL, 1" CLEAR FROM BORDER. PLACE SYMBOL AS SHOWN ON LATCH SIDE OF THE SWING GATE (TYP).
6" DIAMETER CIRCULAR PUSH SYMBOL, FEDERAL SAFETY GREEN (FS 14109 OR 14066) WITH 2" HIGH WHITE HELVETICA MEDIUM UPPER CASE LETTERING, 1" CLEAR FROM BORDER. PLACE SYMBOL ON HINGE SIDE OF THE SWING GATE (TYP).

TRACK SIDE SIGN (GC-2) FOR CLOCKWISE SWINGING GATES



1/2" WIDE BLACK BORDER 1/2" IN FROM EDGE OF SIGN (TYP)
BLACK VINYL LETTERS. 2 1/2" HIGH HELVETICA NEUE 65 MEDIUM UPPER AND LOWER CASE (TYP).

TRACK SIDE SIGN (GC-2) FOR COUNTERCLOCKWISE SWINGING GATES

SWING GATE SIGNAGE DETAILS
SD-7005 7 SD-7006 DETAIL SCALE: NTS

NOTES:

- 1. SEE SD-3300 FOR SIGN REQUIREMENTS AND SPECIFICATIONS.
- 2. SIGN PANELS: 0.120" THICK REFLECTORIZED WHITE ALUMINUM.
- 3. GUARD RAILING AND KICK PLATE SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.

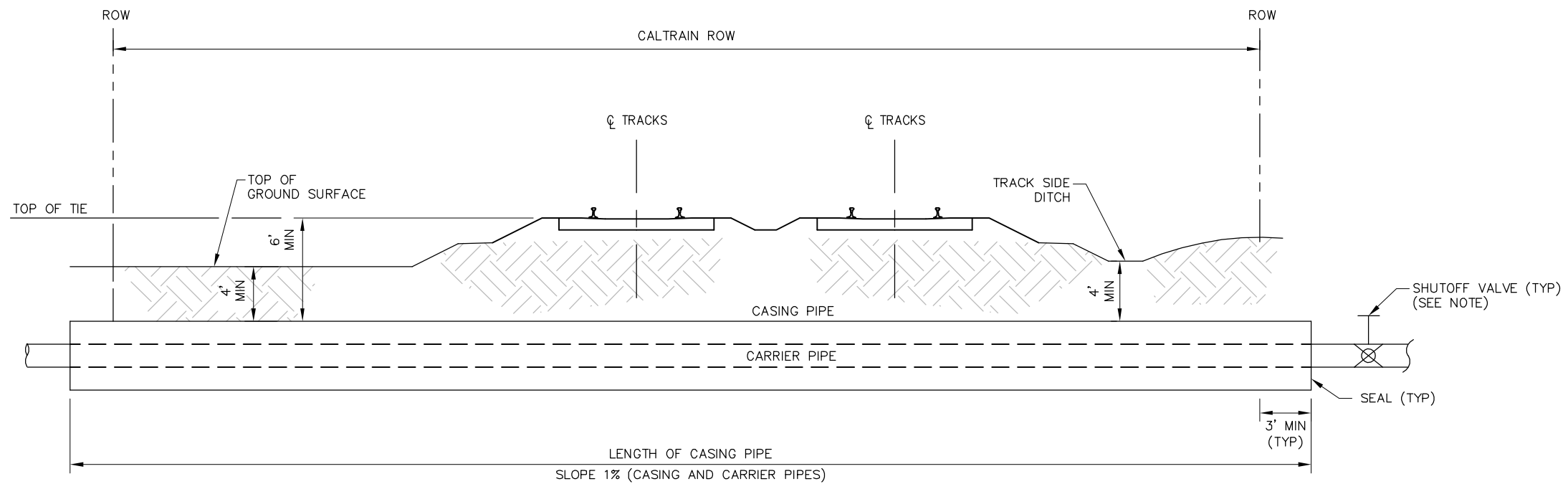
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PENINSULA CORRIDOR JOINT POWERS BOARD
APPROVED BY:
Bin Zhang
DEPUTY DIRECTOR, ENGINEERING



STANDARD DRAWINGS
GRADE CROSSINGS
GATE, RAILING AND SIGNAGE
SHEET 2 OF 2

CADD FILE NAME: SD-7006
REV: EDITION: FOURTH
GRADE CROSSINGS
STANDARD DRAWING NO: SD-7006



CARRIER PIPES:

1. CLASS IV RCP SHALL BE USED FOR STORM WATER OR OTHER LIQUIDS THAT COULD CAUSE CORROSION, WHERE THE OPERATING PRESSURE IS UNDER 40 PSI
2. DUCTILE IRON PIPE IN A CASING IS ACCEPTABLE AS FOLLOWS:
 - CLASS 52 FOR DIAMETERS OF 4" THRU 10"
 - CLASS 53 FOR DIAMETERS OF 12" THRU 14"
 - CLASS 54 FOR DIAMETERS OF 16" THRU 18"
 - CLASS 56 FOR DIAMETERS OF 20" THRU 24"
3. PLASTIC PIPE MAY BE USED IF OPERATING PRESSURE IS UNDER 60 PSI. PLASTIC PIPE SHALL BE PVC OR HDPE AND PROTECTED IN A CASING.

CASING PIPE:

1. CASING PIPE MAY BE OMITTED FOR NON-PRESSURE (GRAVITY) SEWER AND STORM DRAIN CROSSINGS UNDER TRACKS WHERE THE PIPE STRENGTH IS CAPABLE OF WITHSTANDING RAILROAD LOADING.
2. VOID BETWEEN CASING AND CARRIER PIPE SHALL BE FILLED WITH CLEAN SAND IN ALL PRESSURE ABOVE 20 PSI INSTALLATIONS. VOID MAY BE PARTIALLY FILLED IN AS DIRECTED.

NOTES:

1. PIPELINES CONVEYING NON-FLAMMABLE SUBSTANCES SHALL MEET AREMA CHAPTER 1, PART 5, SECTION 5.3 GUIDELINES UNLESS NOTED OTHERWISE ON THIS DRAWING.
2. ACCESSIBLE EMERGENCY SHUTOFF VALVES MAY BE REQUIRED BY FEDERAL, STATE OR LOCAL AUTHORITIES. IF INSTALLED, THE VALVES SHALL BE LOCATED OUTSIDE OF CALTRAIN'S RIGHT-OF-WAY.
3. SEE SD-8000 FOR GENERAL REQUIREMENTS.
4. SIGNS NOT SHOWN FOR CLARITY.


REV	DATE	BY	CHK	APP	DESCRIPTION

PENINSULA CORRIDOR JOINT POWERS BOARD

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Bin Zhang

DEPUTY DIRECTOR, ENGINEERING

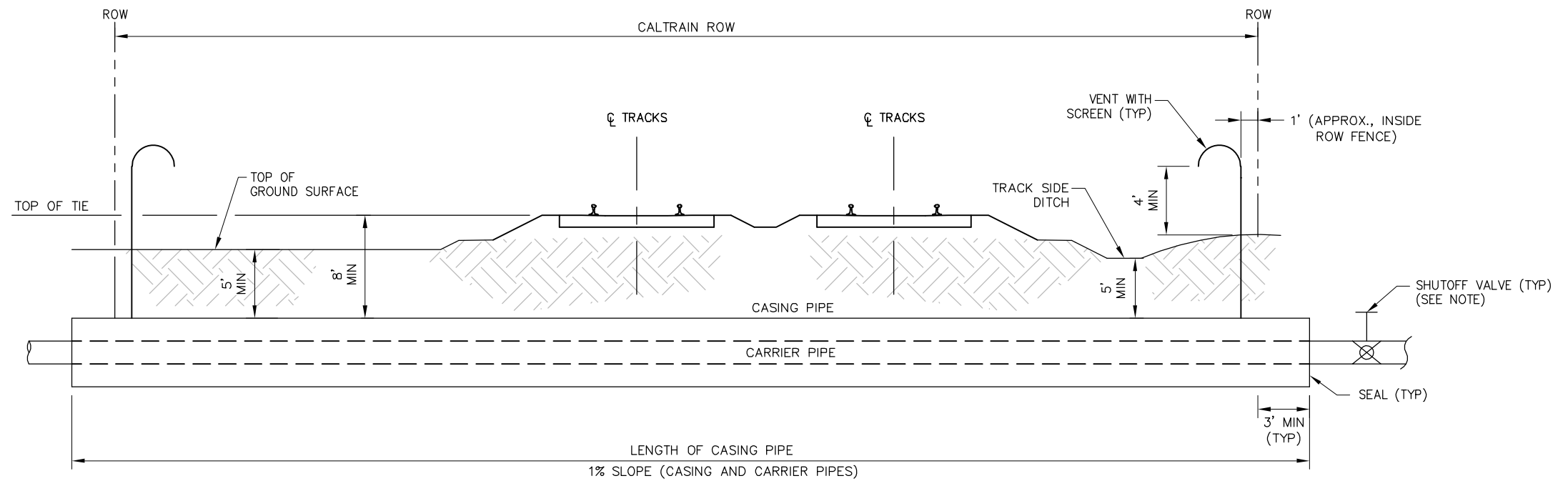


1250 San Carlos Avenue
San Carlos, CA 94070

STANDARD DRAWINGS

CIVIL ENGINEERING
CROSSING UTILITIES
PIPELINES FOR
NON-FLAMMABLE SUBSTANCES

CADD FILE NAME: SD-8001	
REV:	EDITION: FOURTH
CIVIL	
STANDARD DRAWING NO.: SD-8001	



CARRIER PIPES:

1. ALL JOINTS OR COUPLINGS SHALL BE WELDED
2. GAS LINE SHALL BE ALLOYED CARBON STEEL WITH A FACTORY-APPLIED CORROSION PROTECTION COATING

CASING PIPES:

1. CASING PIPE AND JOINTS SHALL BE WELDED, CAPABLE OF WITHSTANDING RAILROAD LOADING (COOPER E-80)
2. CASING PIPE MAY BE OMITTED FOR GAS PIPELINES WHEN DEPTH OF BURIAL FROM BASE OF RAIL TO TOP OF PIPE IS MORE THAN 10'.

NOTES:

1. PIPELINES CONVEYING FLAMMABLE AND HAZARDOUS SUBSTANCES SHALL MEET AREMA CHAPTER 1, PART 5, SECTION 5.1 GUIDELINES UNLESS NOTED OTHERWISE ON THIS DRAWING.
2. SHUTOFF VALVES MAY BE REQUIRED BY FEDERAL, STATE OR LOCAL AUTHORITIES. IF INSTALLED, THE VALVES SHALL BE LOCATED OUTSIDE OF CALTRAIN'S RIGHT-OF-WAY.
3. SEE SD-8000 FOR GENERAL REQUIREMENTS.

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PENINSULA CORRIDOR JOINT POWERS BOARD

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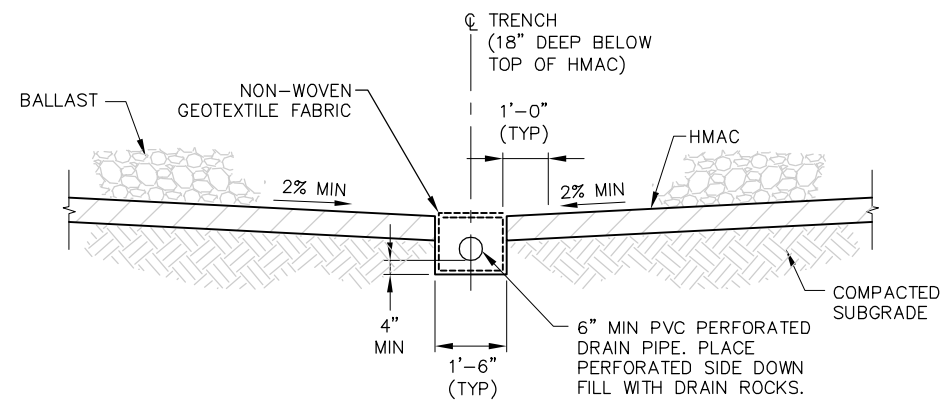
DEPUTY DIRECTOR, ENGINEERING

1250 San Carlos Avenue
San Carlos, CA 94070

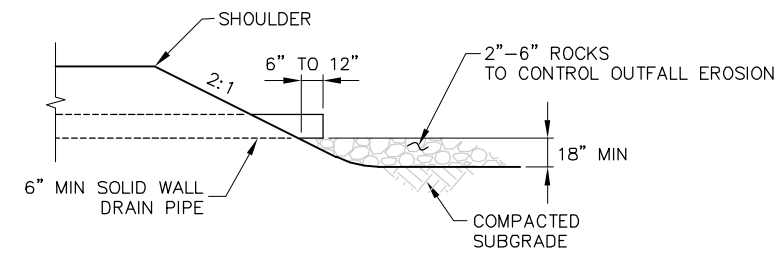
STANDARD DRAWINGS

CIVIL ENGINEERING
CROSSING UTILITIES
PIPELINES FOR FLAMMABLE
AND HAZARDOUS SUBSTANCES

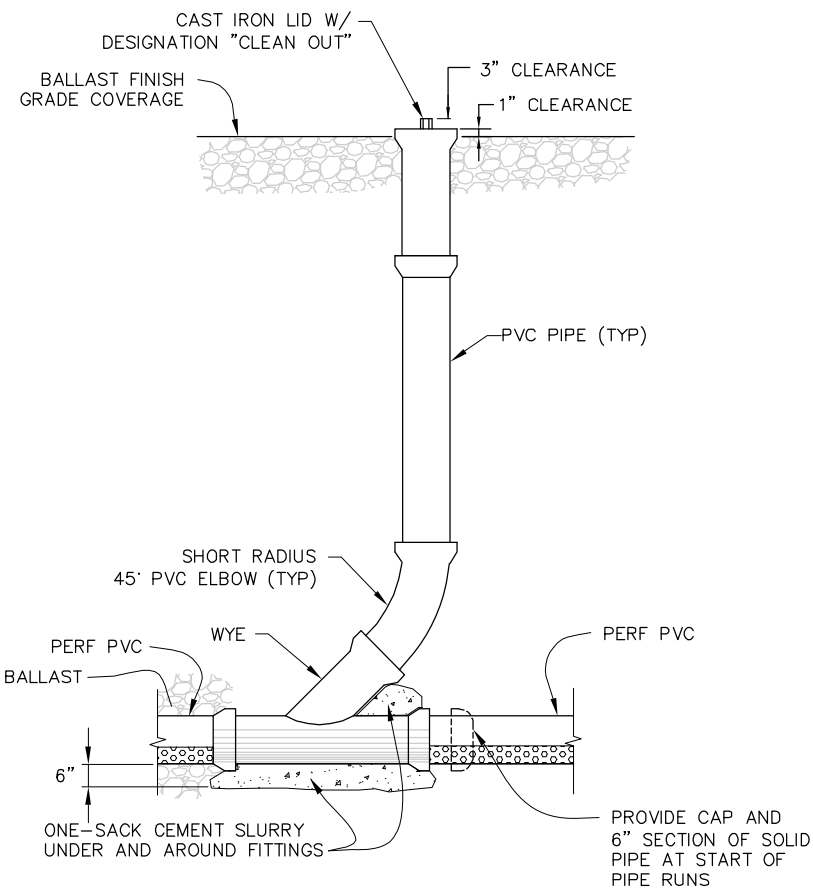
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REV:	EDITION: FOURTH
CIVIL	
STANDARD DRAWING NO.:	SD-8002



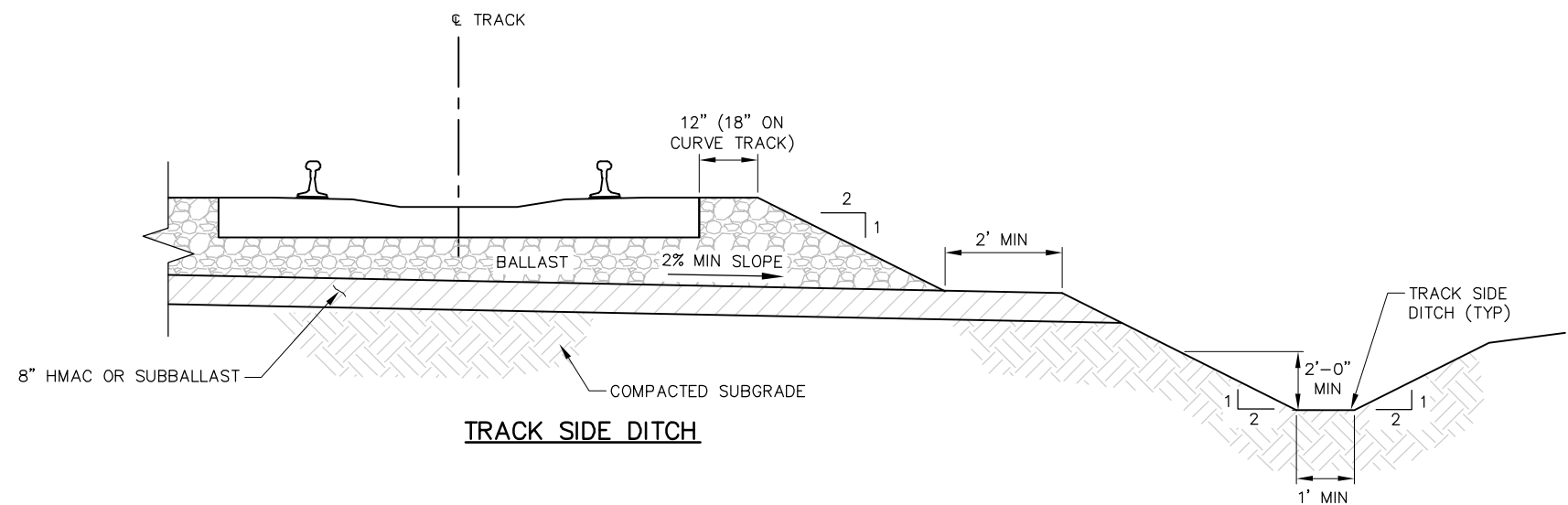
TRACK UNDERDRAIN AT STATIONS



UNDERDRAIN OUTFALL



TYPICAL PERFORATED DRAIN CLEANOUT



TRACK SIDE DITCH

REV	DATE	BY	CHK	APP	DESCRIPTION	REV	DATE	BY	CHK	APP	DESCRIPTION
					01012024 FOURTH EDITION						

PENINSULA CORRIDOR JOINT POWERS BOARD

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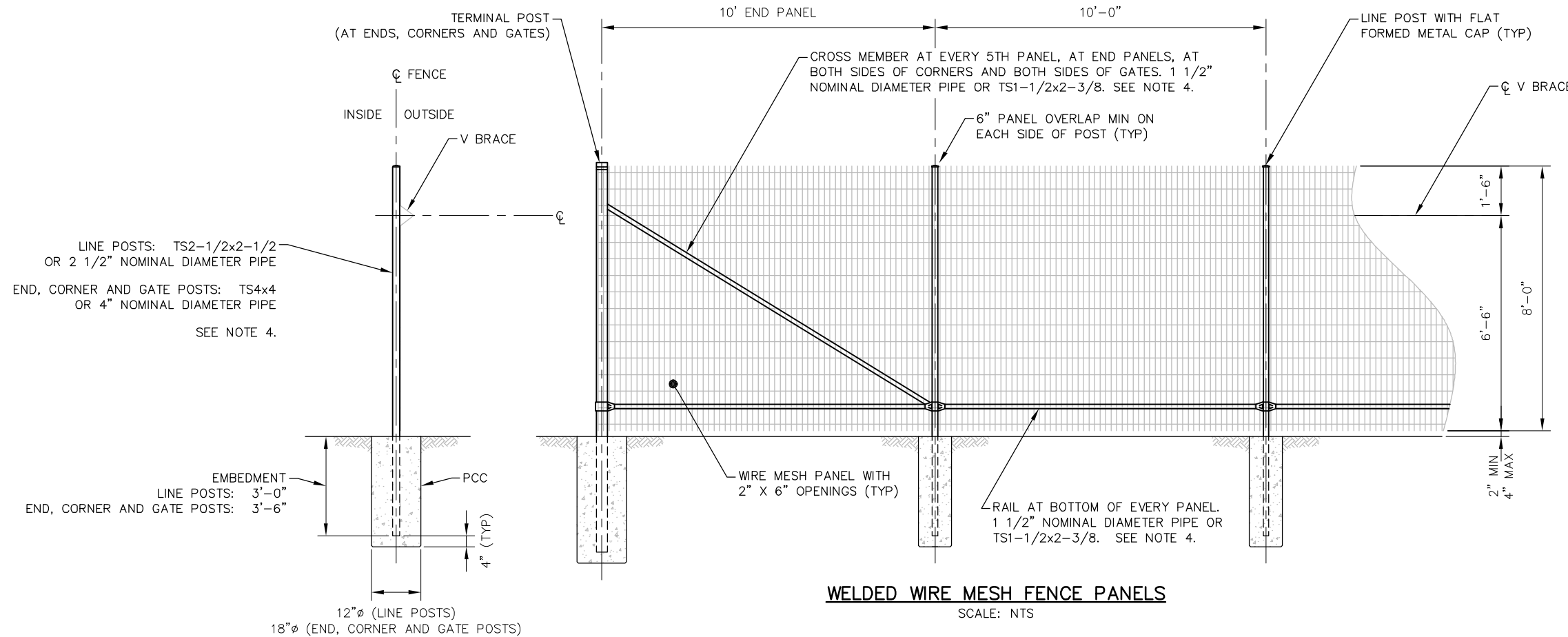


1250 San Carlos Avenue
San Carlos, CA 94070

STANDARD DRAWINGS

CIVIL ENGINEERING
DRAINAGE
TRACK UNDERDRAIN AND
TRACKSIDE DITCH DETAILS

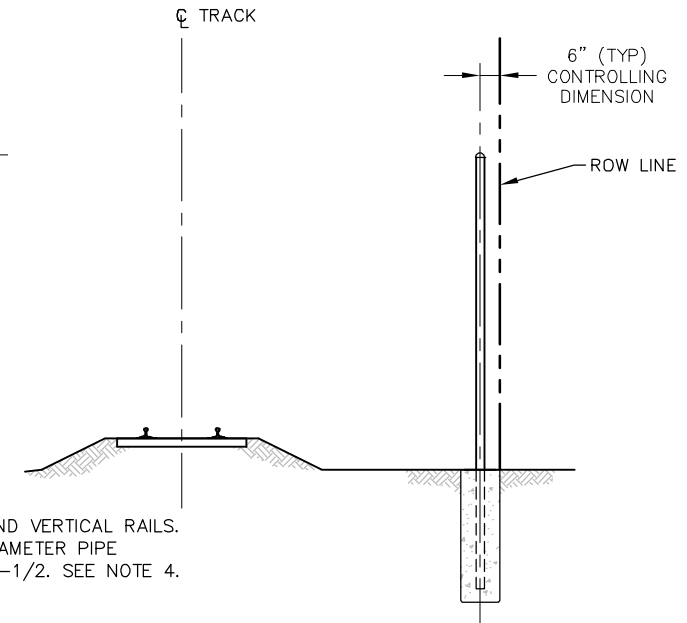
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REV: EDITION: FOURTH
CIVIL
STANDARD DRAWING NO.: SD-8101



WELDED WIRE MESH FENCE PANELS

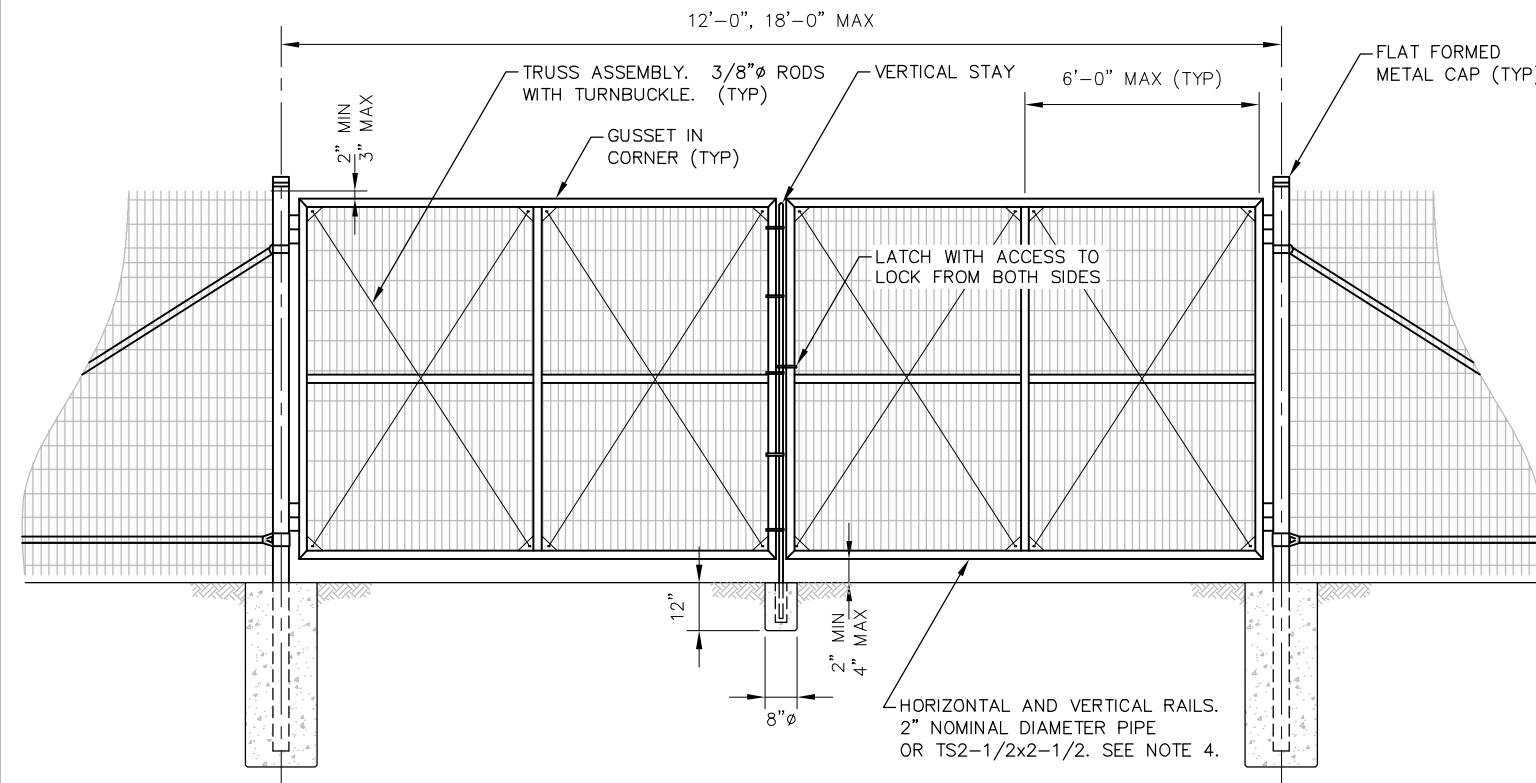
SCALE: NTS

- NOTES:**
1. WELDED WIRE MESH SHALL BE TYPHOON BY SECURE TECHNOLOGY, INC. OR TRANSAFE BY C. E. SHEPPERD. MESH SHALL BE HOT DIPPED GALVANIZED.
 2. QUANTITY, SIZE AND TYPE OF FASTENERS, HAT BRACKETS AND GAUGE TIES SHALL BE AS PER THE MANUFACTURER'S RECOMMENDATIONS.
 3. FOUNDATION PCC SHALL BE 4,000 PSI MIN @ 28 DAYS.
 4. TUBULAR MEMBERS ARE ACCEPTABLE ONLY IF COMPATIBLE WITH WIRE MESH INSTALLATION AND APPROVED BY OWNER.
 5. ALL STEEL MEMBERS, MESHES AND FITTINGS SHALL BE HOT DIPPED GALVANIZED.
 6. SEE ELECTRIFICATION GROUNDING AND BONDING STANDARD DRAWINGS FOR GROUNDING REQUIREMENTS.



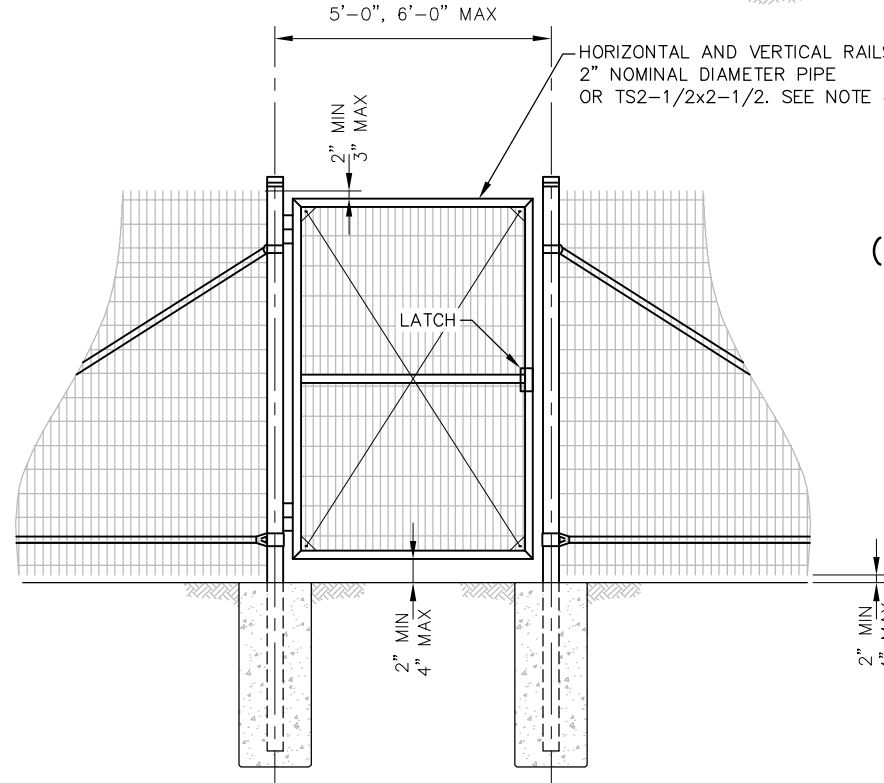
**FENCE LOCATION
(TYPICAL FOR ALL ROW FENCES)**

SCALE: NTS



WELDED WIRE MESH DOUBLE SWING GATE

SCALE: NTS



WELDED WIRE MESH SINGLE SWING GATE

SCALE: NTS


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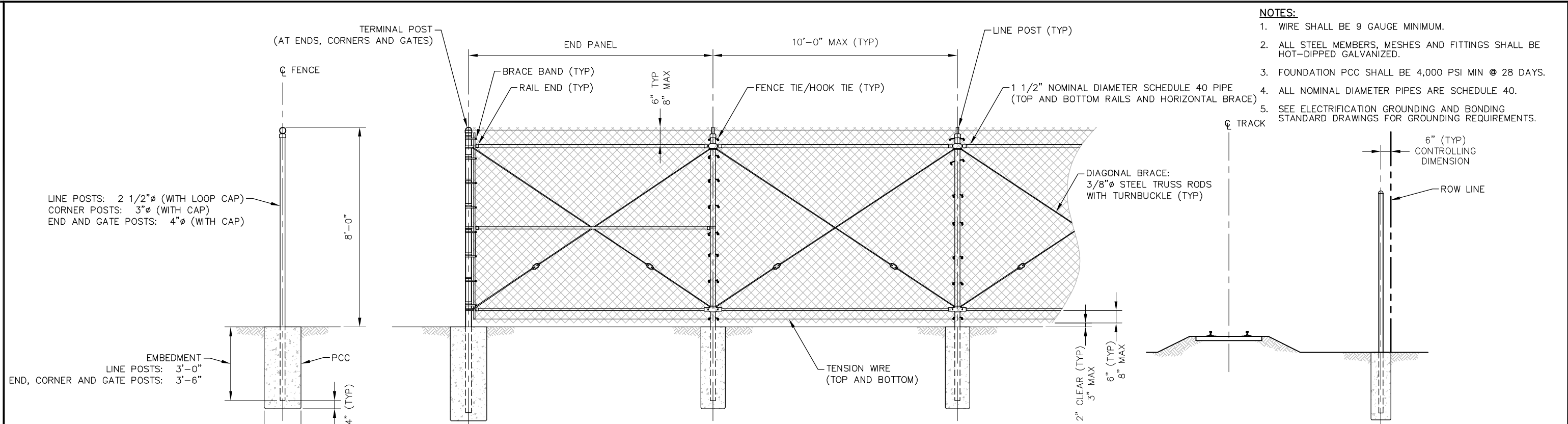


1250 San Carlos Avenue
San Carlos, CA 94070

STANDARD DRAWINGS

**RIGHT-OF-WAY
FENCING
RESIDENTIAL AREA
WELDED WIRE MESH FENCE**

CADD FILE NAME:	SD-9001
REV:	EDITION: FOURTH
	RIGHT-OF-WAY
STANDARD DRAWING NO.:	SD-9001



CHAIN-LINK FENCE

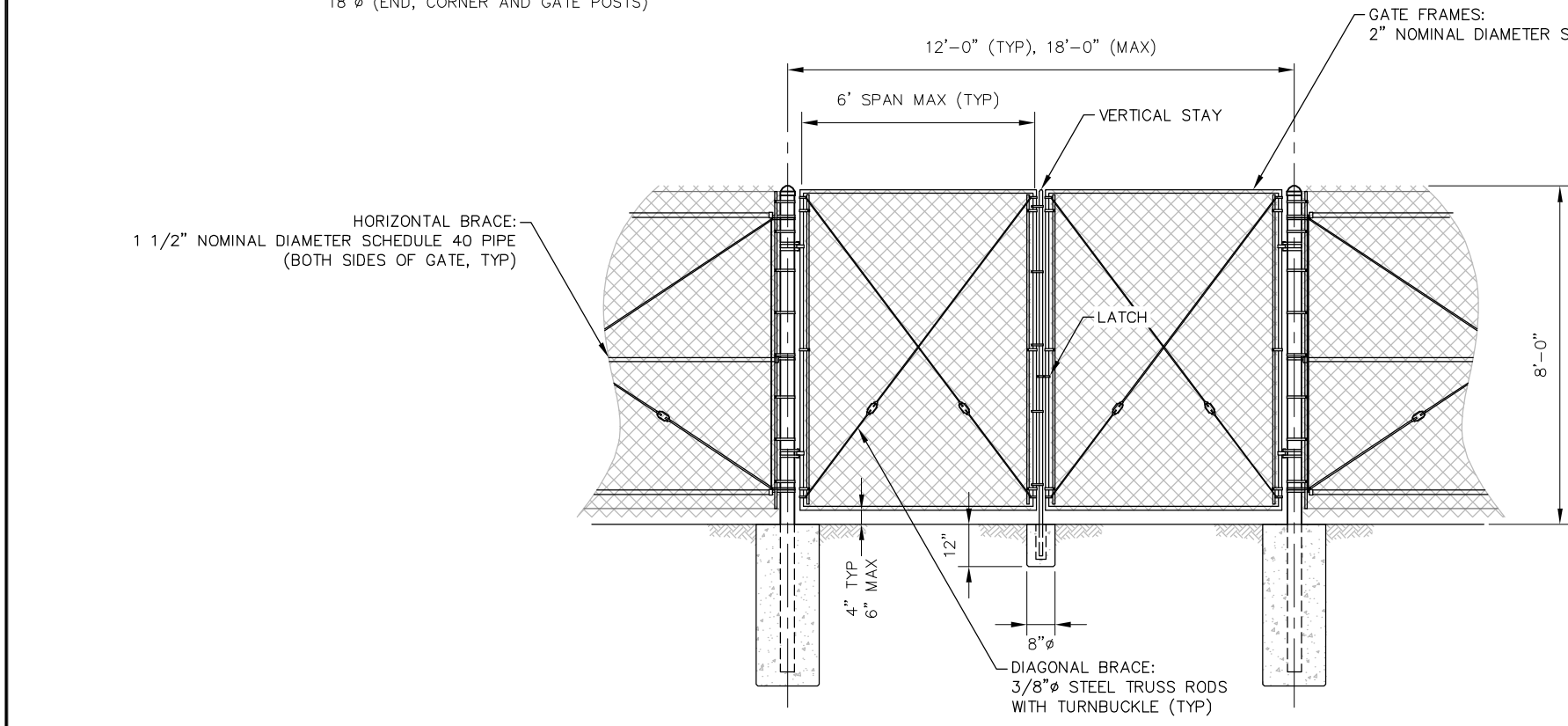
SCALE: NTS

NOTES:

1. WIRE SHALL BE 9 GAUGE MINIMUM.
2. ALL STEEL MEMBERS, MESHES AND FITTINGS SHALL BE HOT-DIPPED GALVANIZED.
3. FOUNDATION PCC SHALL BE 4,000 PSI MIN @ 28 DAYS.
4. ALL NOMINAL DIAMETER PIPES ARE SCHEDULE 40.
5. SEE ELECTRIFICATION GROUNDING AND BONDING STANDARD DRAWINGS FOR GROUNDING REQUIREMENTS.

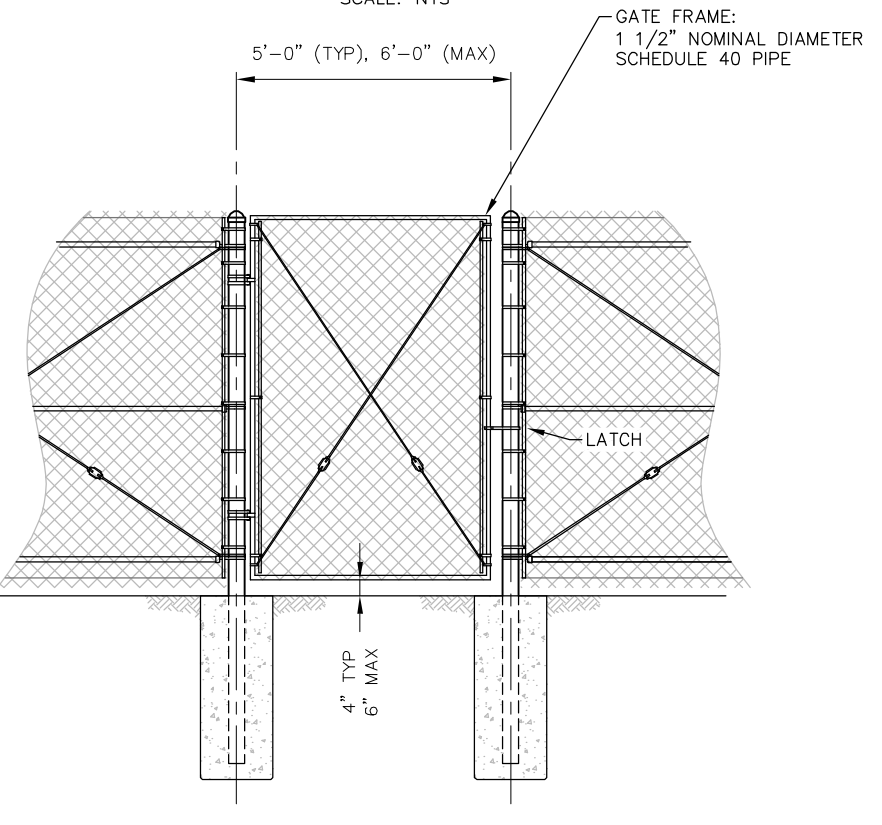
**FENCE LOCATION
(TYPICAL FOR ALL ROW FENCES)**

SCALE: NTS



CHAIN-LINK FENCE DOUBLE SWING GATE

SCALE: NTS



CHAIN-LINK FENCE SINGLE SWING GATE

SCALE: NTS


REV	DATE	BY	CHK	APP	DESCRIPTION

PENINSULA CORRIDOR JOINT POWERS BOARD

APPROVED BY:

Bin Zhang

DEPUTY DIRECTOR, ENGINEERING

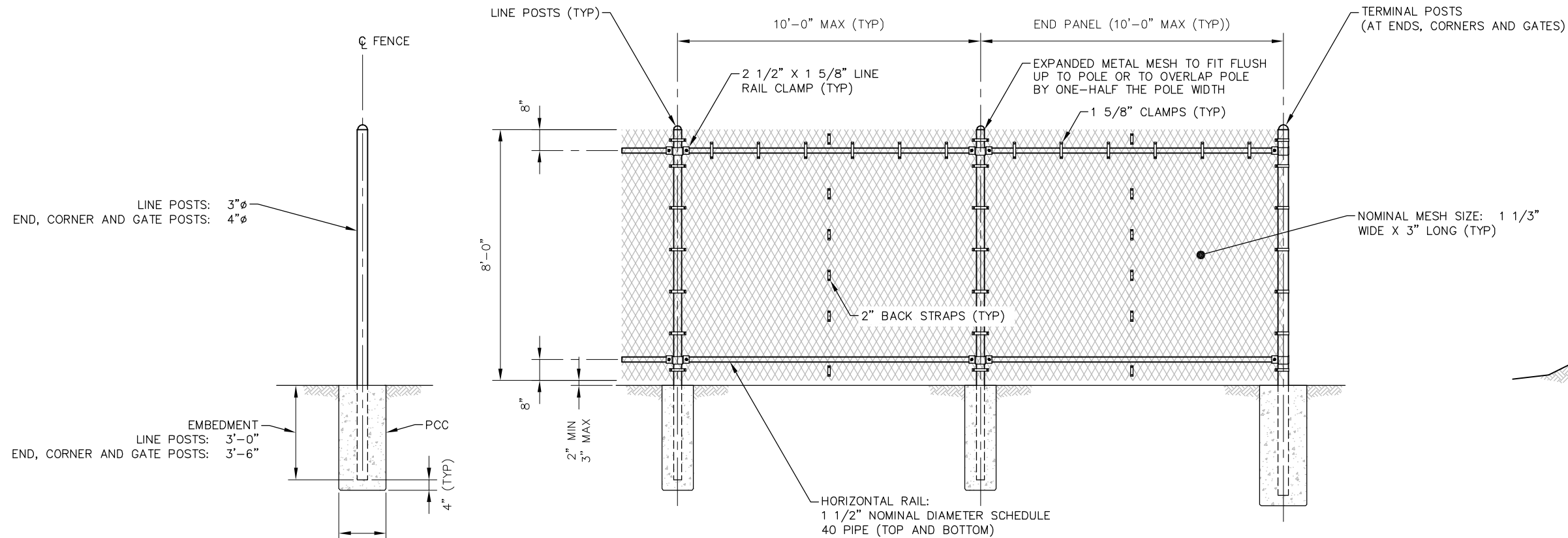


1250 San Carlos Avenue
San Carlos, CA 94070

STANDARD DRAWINGS

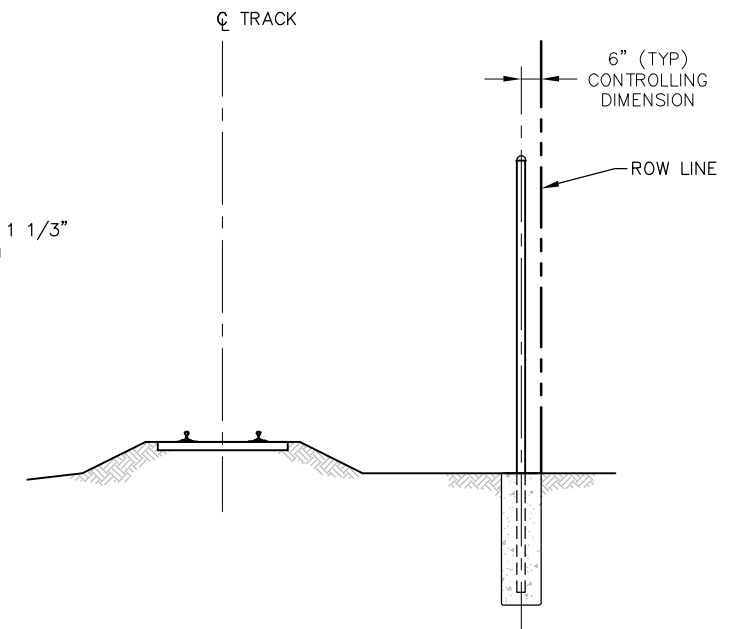
RIGHT-OF-WAY
FENCING
INDUSTRIAL AREA
CHAIN-LINK FENCE

CADD FILE NAME: SD-9002	REV: EDITION: FOURTH
STANDARD DRAWING NO.: SD-9002	RIGHT-OF-WAY



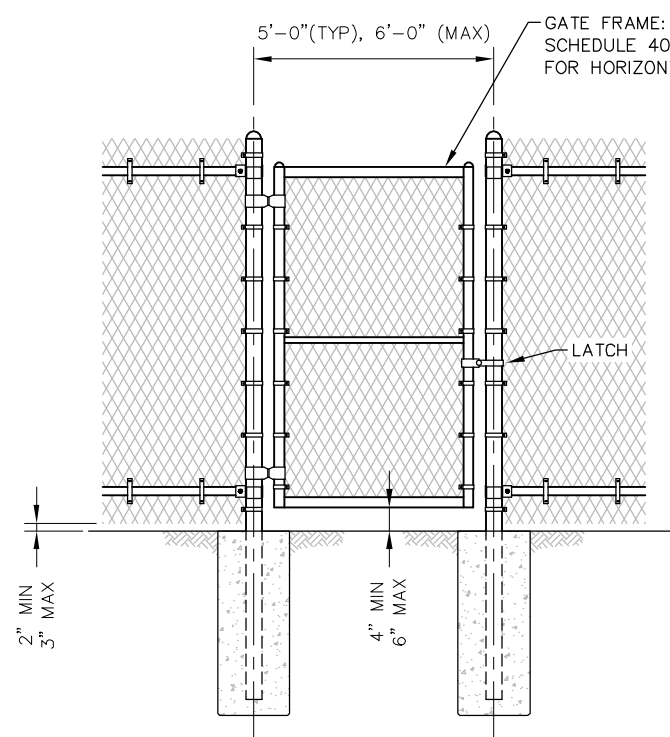
EXPANDED METAL MESH FENCE

SCALE: NTS



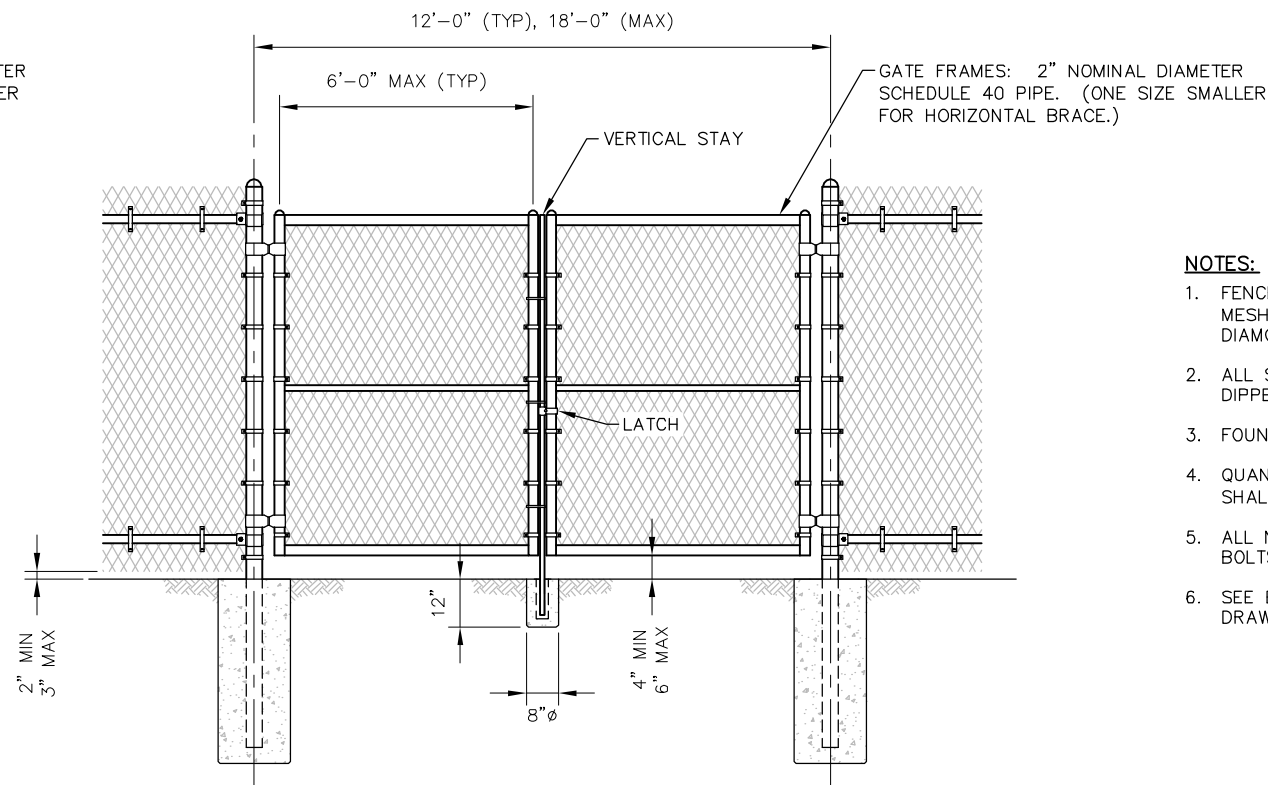
FENCE LOCATION (TYPICAL FOR ALL ROW FENCES)

SCALE: NTS



EXPANDED METAL MESH FENCE WITH SINGLE SWING GATE

SCALE: NTS



EXPANDED METAL MESH FENCE WITH DOUBLE SWING GATE

SCALE: NTS

NOTES:

- FENCE MESH SHALL BE SECURA 13 GAGE (REGULAR) WITH MESH DIAMOND SIZE 0.500" X 1.200" WITH MINIMUM 24 DIAMONDS PER LINEAR FOOT OR ENGINEER APPROVED EQUAL.
- ALL STEEL MEMBERS, MESHES AND FITTINGS SHALL BE HOT DIPPED GALVANIZED.
- FOUNDATION PCC SHALL BE 4,000 PSI MIN @ 28 DAYS.
- QUANTITY, SIZE AND TYPE OF FASTENERS AND FITTINGS SHALL BE AS PER THE MANUFACTURER'S RECOMMENDATIONS.
- ALL NUT TYPE FASTENERS SHALL BE TACK-WELDED TO BOLTS AFTER TIGHTENING.
- SEE ELECTRIFICATION GROUNDING AND BONDING STANDARD DRAWINGS FOR GROUNDING REQUIREMENTS.

PENINSULA CORRIDOR JOINT POWERS BOARD

STANDARD DRAWINGS

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**RIGHT-OF-WAY FENCING
HIGH SECURITY AREA
EXPANDED METAL MESH FENCE**

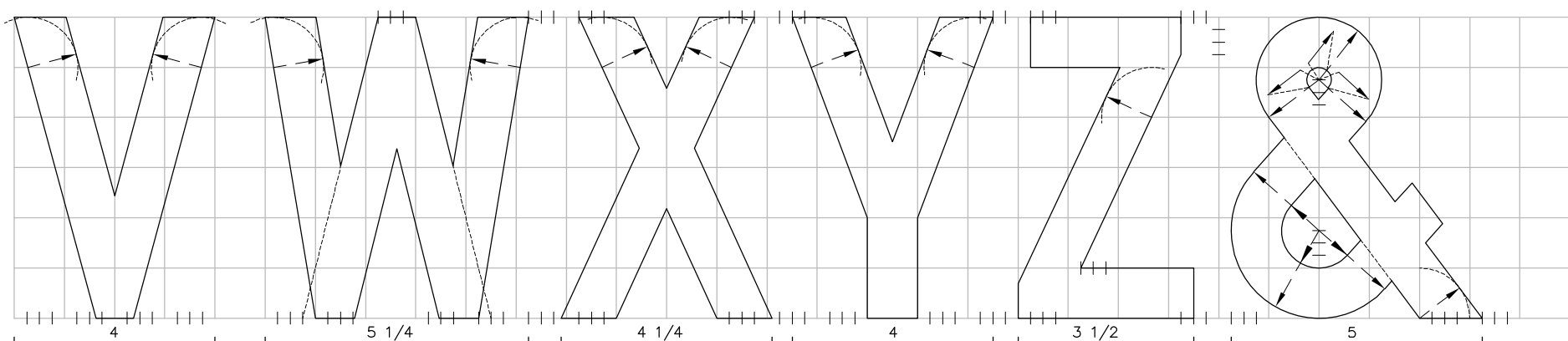
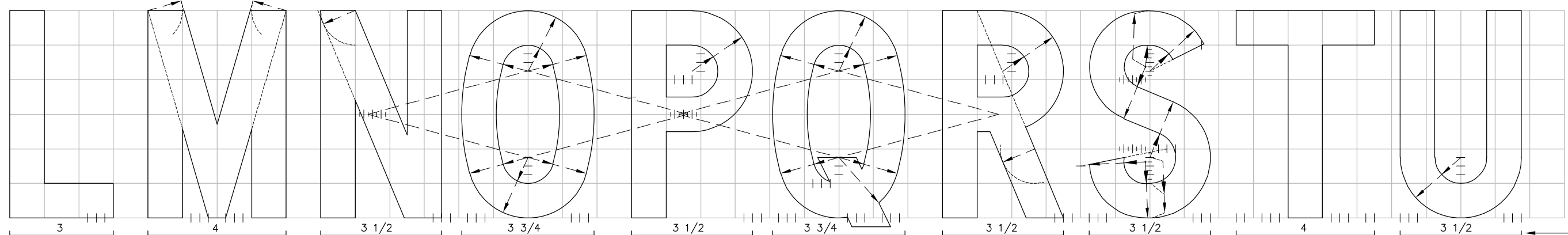
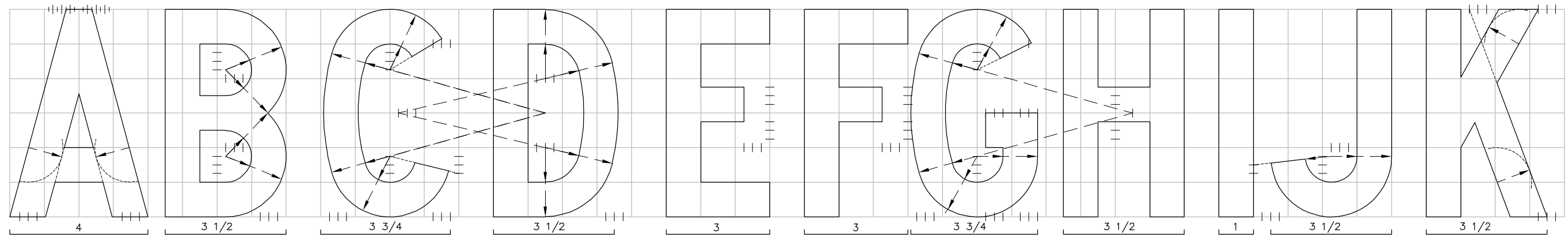
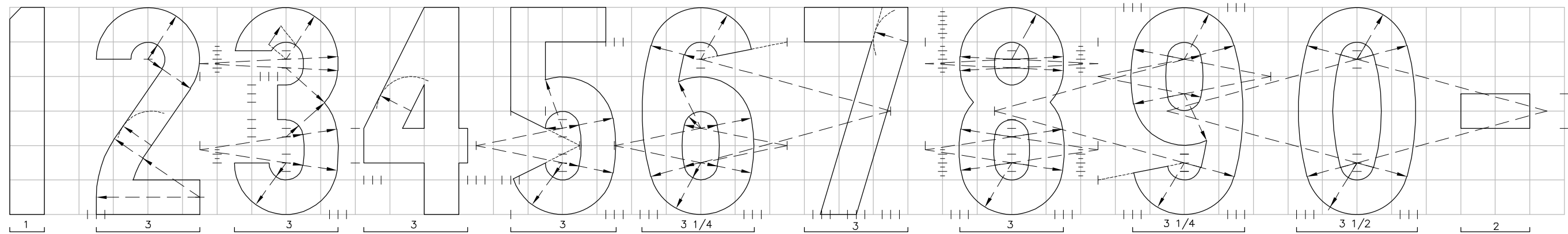
CADD FILE NAME:
SD-9003

REV: EDITION:
FOURTH

RIGHT-OF-WAY

STANDARD DRAWING NO.:
SD-9003

REV	DATE	BY	CHK	APP	DESCRIPTION	REV	DATE	BY	CHK	APP	DESCRIPTION
					01012024 FOURTH EDITION						



NET VALUE (TYP)

NOTES:

1. THIS STYLE OF LETTERS IS TO BE USED ON ALL RIGHT OF WAY SIGNS. PROPORTIONING OF LETTERS MAY BE MODIFIED TO SUIT AVAILABLE SPACE ON THE SIGN.
2. LENGTH OF NET VALUE LINES ARE BASED ON THE AMOUNT OF SPACE SURROUNDING LETTERS. FOR BALANCED APPEARANCE, THE DISTANCE BETWEEN THESE LINES IN ANY WORD SHOULD BE CONSTANT.

REV	DATE	BY	CHK	APP	DESCRIPTION
					01012024 FOURTH EDITION

REV	DATE	BY	CHK	APP	DESCRIPTION

PENINSULA CORRIDOR JOINT POWERS BOARD

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Bin Zhang

DEPUTY DIRECTOR, ENGINEERING

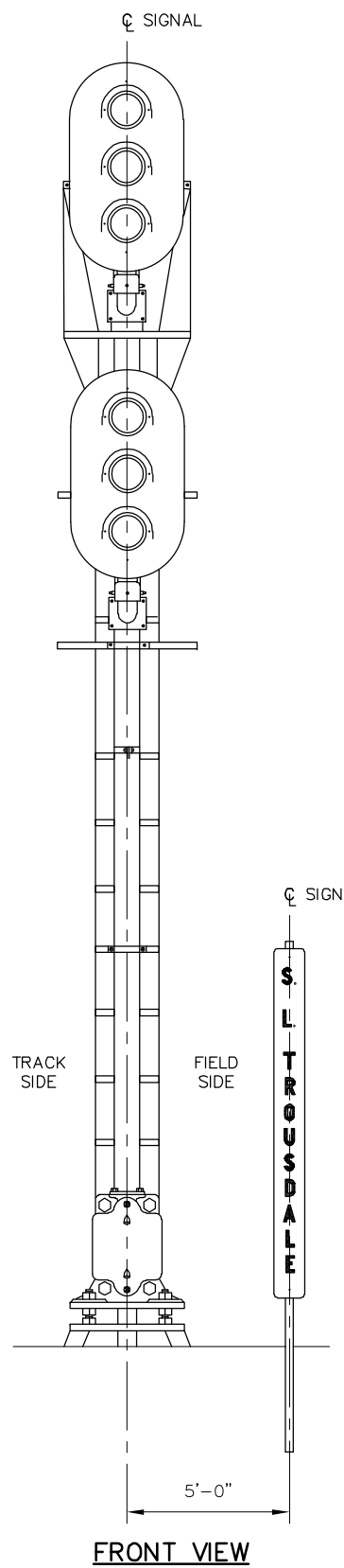


STANDARD DRAWINGS

RIGHT-OF-WAY SIGNAGE

LETTERING FOR SIGNS

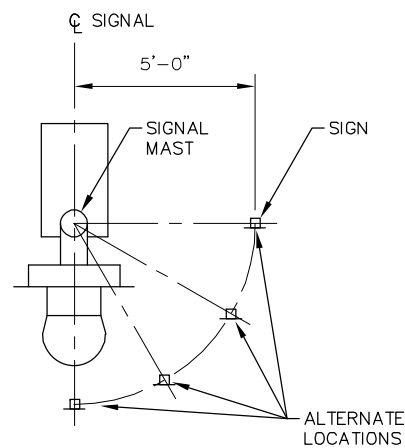
CADD FILE NAME: SD-9101	EDITION: FOURTH
RIGHT-OF-WAY	
STANDARD DRAWING NO: SD-9101	



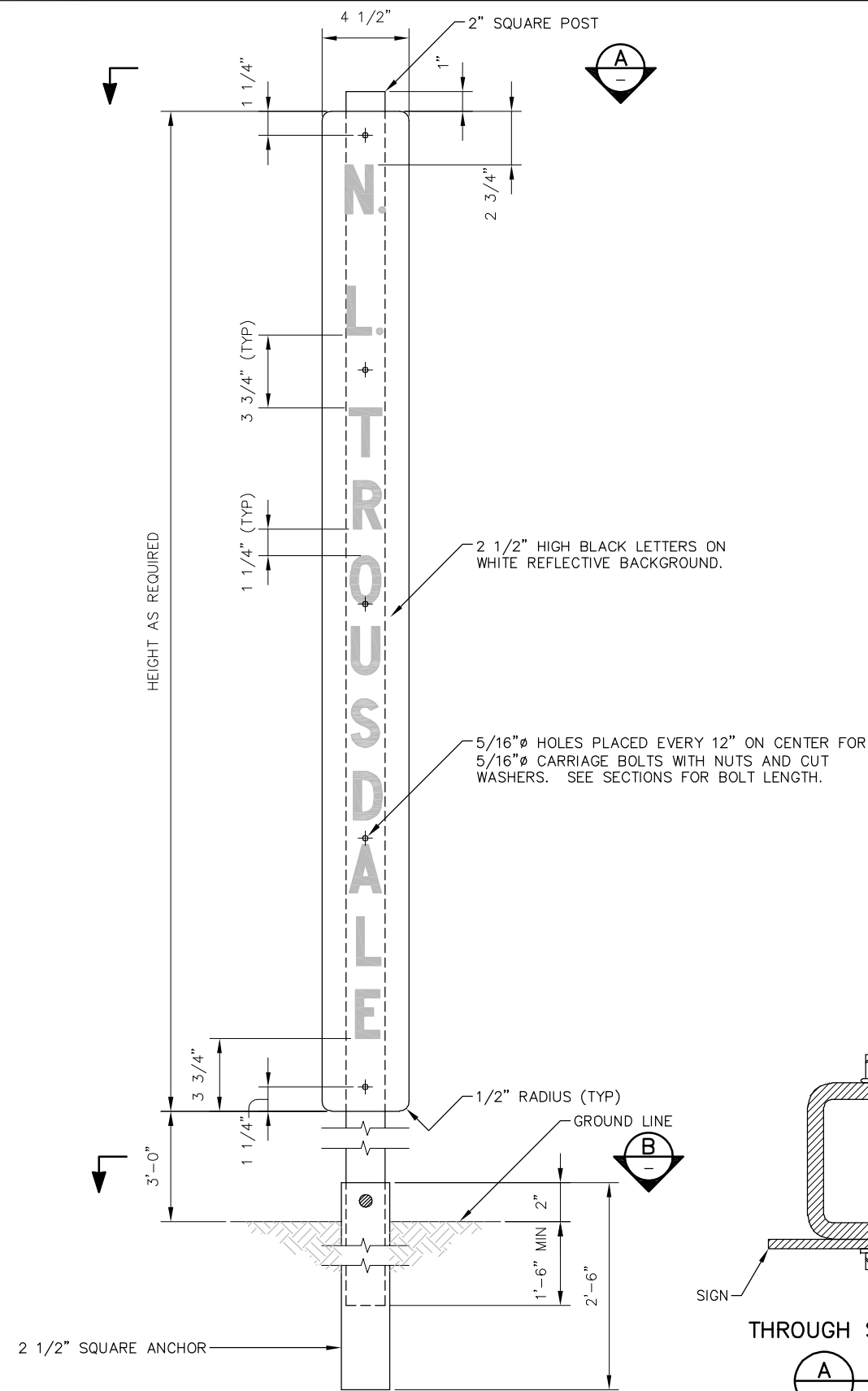
FRONT VIEW

CONTROL POINT SIGN INSTALLATION

SCALE: NTS

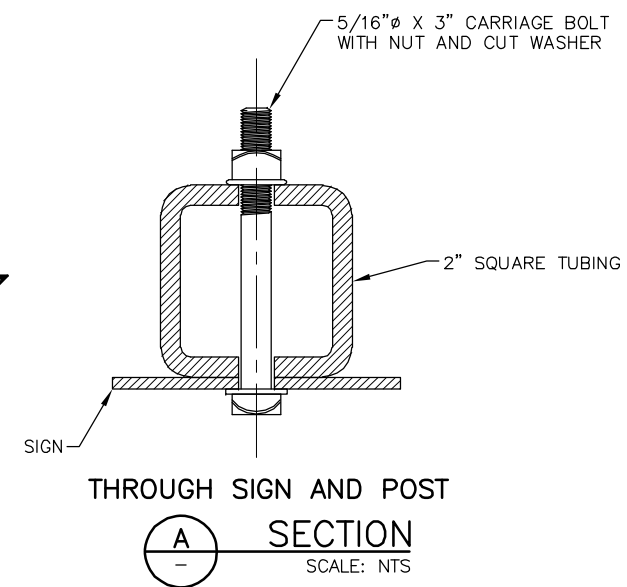


TOP VIEW



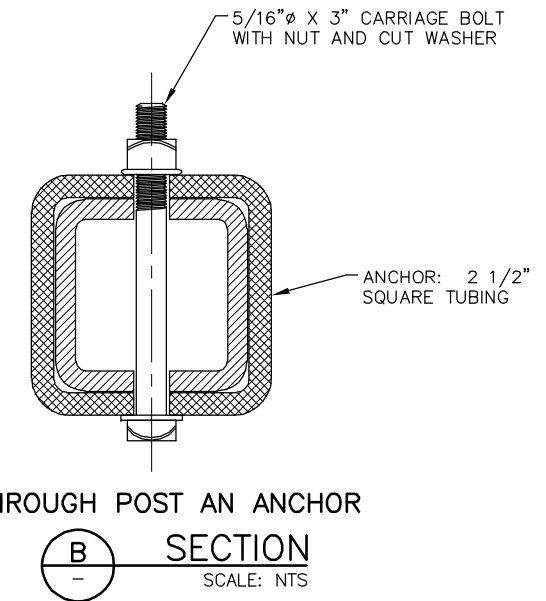
CONTROL POINT SIGN

SCALE: NTS



THROUGH SIGN AND POST

SECTION A SCALE: NTS



THROUGH POST AN ANCHOR

SECTION B SCALE: NTS

NOTES:

- SIGNS SHALL BE USED ON THE SIDE OF EACH TRACK ADJACENT TO THE SIGNAL CONTROLLING ENTRANCE TO CONTROL POINTS. USE THE FOLLOWING ABBREVIATIONS: N.=NORTH, S.=SOUTH AND L.=LIMIT.
- WHERE DWARF SIGNALS ARE USED, PLACE CONTROL POINT SIGNS SUCH THAT THEY DO NOT OBSTRUCT SIGNALS.
- SIGN PANELS SHALL BE 0.08" SHEET ALUMINUM ALLOY 6061-T6 WITH RETROREFLECTIVE SHEETING AND PROTECTIVE OVERLAY FILM.
 - COLOR OF NUMERALS AND LETTERS: BLACK.
 - PAINT ALL SIDES WITH LINEAR POLYURETHANE.
 - COAT SIGN FACE WITH ENGINEERING GRADE, PRESSURE SENSITIVE, RETRO-REFLECTIVE WHITE VINYL SHEETING.
 - PROTECTIVE OVERLAY FILM: EXTERIOR GRADE WITH PRESSURE SENSITIVE ADHESIVE BACKING.
 - SCREENED PROCESS COLORS, PROTECTIVE OVERLAY FILM AND NONREFLECTIVE, OPAQUE BLACK FILM SHALL BE APPROVED BY RETROREFLECTIVE SHEETING MANUFACTURER.
- FOR LETTERS AND NUMERALS SEE SD-9101.
- ALL HARDWARE SHALL BE VANDAL RESISTANT, HOT DIPPED GALVANIZED.

REV	DATE	BY	CHK	APP	DESCRIPTION	REV	DATE	BY	CHK	APP	DESCRIPTION
					01012024 FOURTH EDITION						

PENINSULA CORRIDOR JOINT POWERS BOARD

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Bin Zhang

DEPUTY DIRECTOR, ENGINEERING



1250 San Carlos Avenue
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STANDARD DRAWINGS

RIGHT-OF-WAY
SIGNAGE

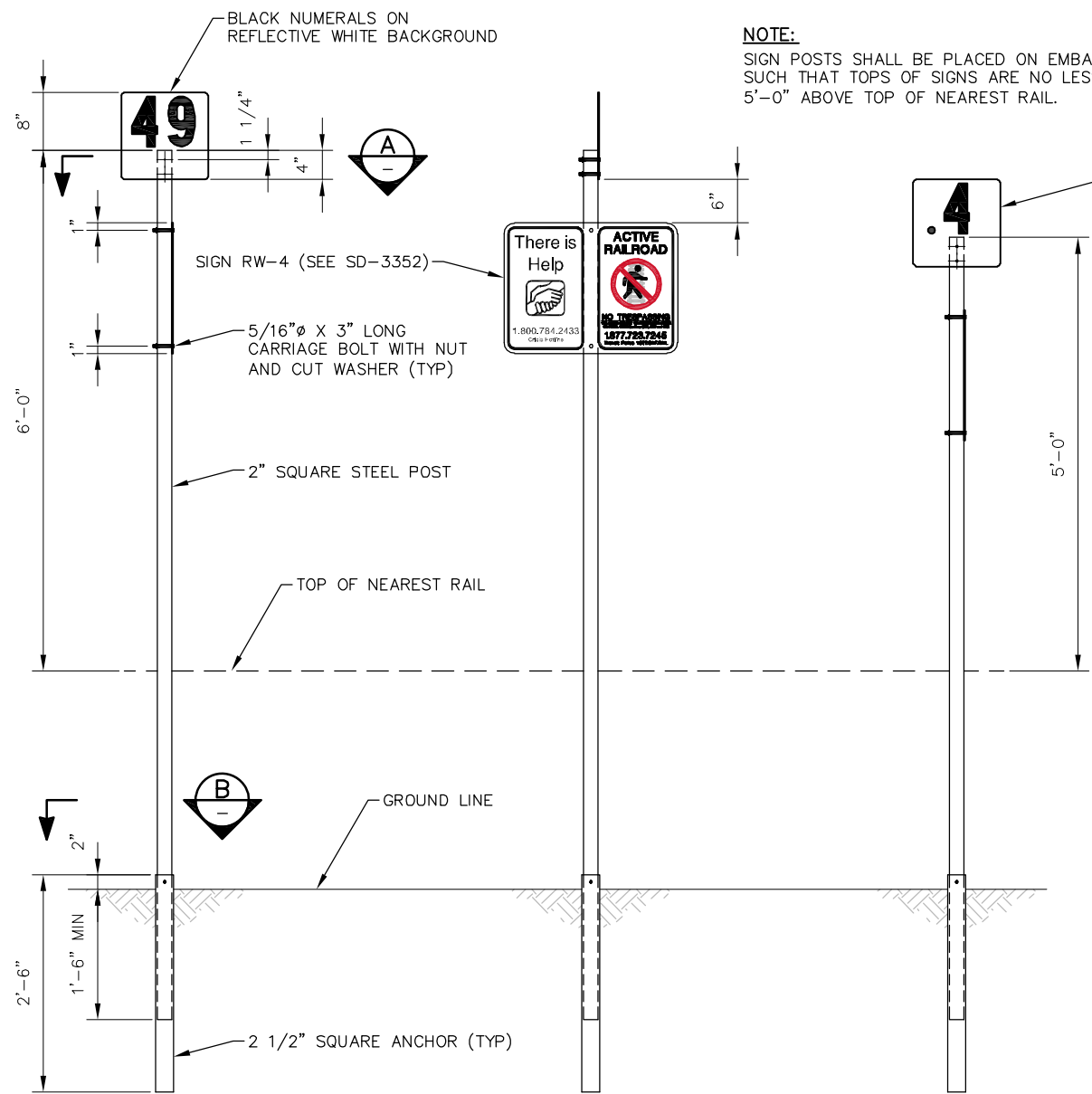
CONTROL POINT SIGNS

CADD FILE NAME: SD-9102

REV: EDITION: FOURTH

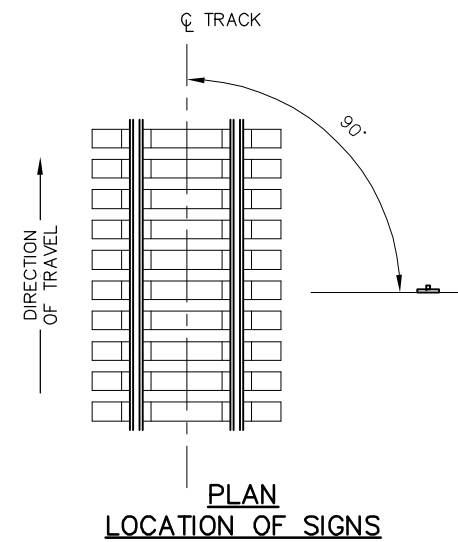
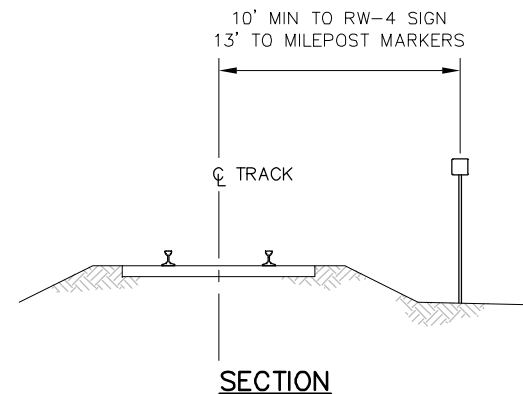
RIGHT-OF-WAY

STANDARD DRAWING NO.: SD-9102



NOTES:

1. MILEPOST MARKER AND ONE TENTH MILE MARKER SIGNS SHALL BE SET AT EVERY MILE AND TENTH OF A MILE, RESPECTIVELY.
2. SIGN FACES SHALL BE SET AT 90° TO THE CENTERLINE OF TRACK.

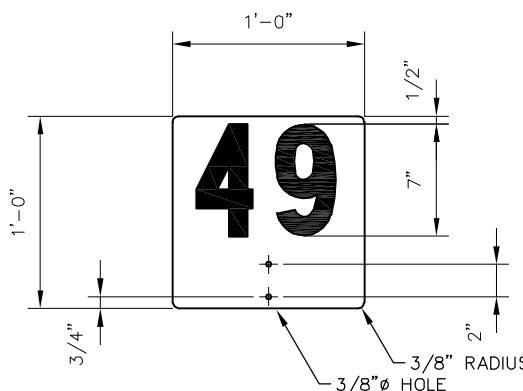


NOTES:

1. LOCATION OF SIGNS MAY BE ADJUSTED SLIGHTLY TO AVOID OBSTRUCTIONS. SIGNS MUST BE READILY VISIBLE FROM LOCOMOTIVES IN BOTH DIRECTIONS.
2. SIGN PANELS SHALL BE 0.08" SHEET ALUMINUM ALLOY 6061-T6 WITH RETROREFLECTIVE OVERLAY FILM ON BOTH SIDES.
 - COLOR OF NUMBERS AND LETTERS: BLACK.
 - PAINT ALL SIDES WITH LINEAR POLYURETHANE.
 - SHEETING SHALL BE RETRO-REFLECTIVE PRISMATIC, ASTM D4956 TYPE III OR HIGHER.
 - PROTECTIVE OVERLAY FILM: EXTERIOR GRADE WITH PRESSURE SENSITIVE ADHESIVE BACKING.
 - SCREENED PROCESS COLORS, PROTECTIVE OVERLAY FILM AND NONREFLECTIVE, OPAQUE, BLACK FILM SHALL BE APPROVED BY RETROREFLECTIVE SHEETING MANUFACTURER.
3. ALL HARDWARE SHALL BE VANDAL RESISTANT, HOT DIPPED GALVANIZED.
4. MILEPOST MARKERS SHALL BE PLACED ON THE RIGHT SIDE OF MT-2 WHEN TRAVELING FROM SAN FRANCISCO AND ON THE RIGHT SIDE OF MT-1 WHEN TRAVELING FROM TAMIEN STATION. IN LOCATIONS HAVING MORE THAN TWO MAINLINE TRACKS, SIGNS SHALL BE PLACED TO THE RIGHT OF THE OUTERMOST TRACK WHEN TRAVELING FROM SAN FRANCISCO AND TO THE RIGHT OF THE OUTERMOST TRACK WHEN TRAVELING FROM TAMIEN STATION. MARKERS SHALL BE LOCATED SUCH THAT THEY CAN BE READILY SEEN FROM THE TRACK.
5. MILEPOST MARKERS SHALL BE PLACED ON CENTER FENCES AT STATIONS. SIGNS SHALL BE PLACED ON A POST SUCH THAT THEY CAN BE READILY SEEN FROM DOWN THE TRACKS IN EITHER DIRECTION.
6. FOR LETTERS AND NUMBERS, SEE SD-9101.
7. VERIFY THE LOCATION OF ALL UTILITIES IN THE VICINITY OF A SIGN PRIOR TO INSTALLING ITS ANCHOR.

MILEPOST MARKER

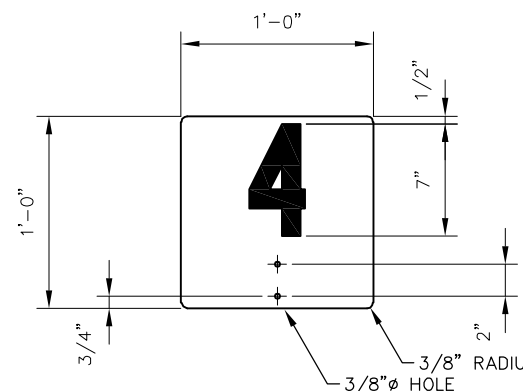
SIGN FACES APPROACHING TRAINS NORTH AND SOUTH



MILEPOST MARKER-DOUBLE DIGIT

NO TRESPASSING SUICIDE PREVENTION SIGN

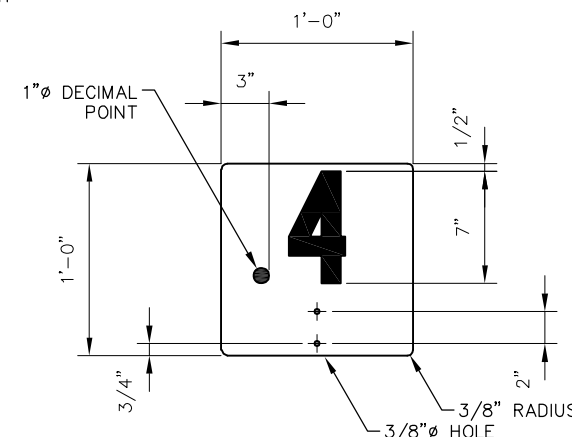
SIGN FACES PCJPB PROPERTY LINE:
 • EAST AND WEST ON RIGHT-OF-WAY
 SIGN FACES ROADWAY:
 • NORTH AND SOUTH AT GRADE CROSSINGS



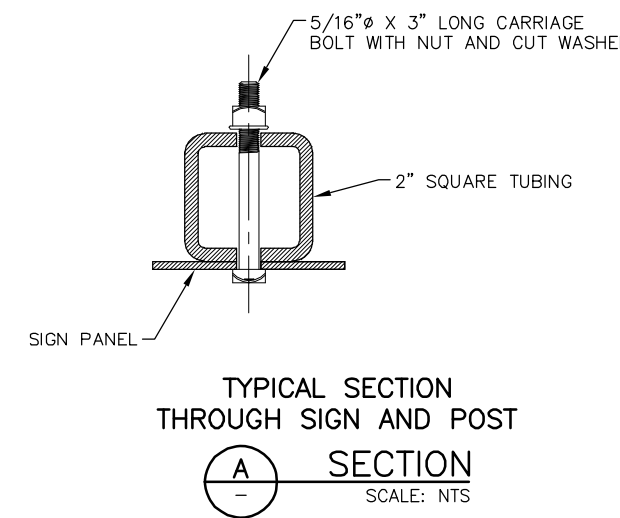
MILEPOST MARKER-SINGLE DIGIT

ONE TENTH MILE MARKER

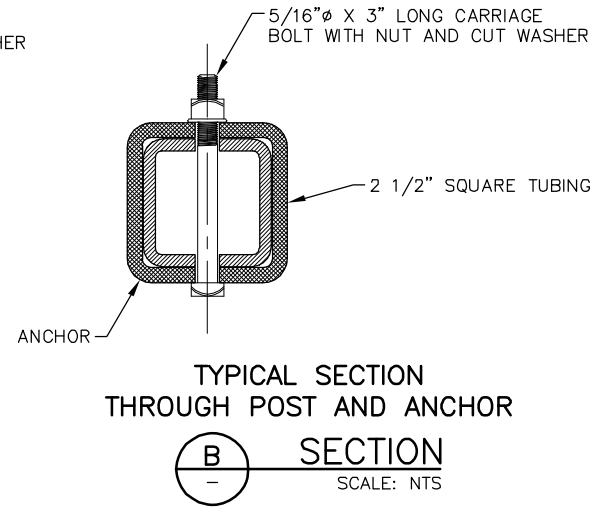
SIGN FACES APPROACHING TRAINS NORTH AND SOUTH



ONE TENTH MILE MARKER



TYPICAL SECTION THROUGH SIGN AND POST
 SECTION A
 SCALE: NTS



TYPICAL SECTION THROUGH POST AND ANCHOR
 SECTION B
 SCALE: NTS

REV	DATE	BY	CHK	APP	DESCRIPTION

PENINSULA CORRIDOR JOINT POWERS BOARD

APPROVED BY:

 DEPUTY DIRECTOR, ENGINEERING

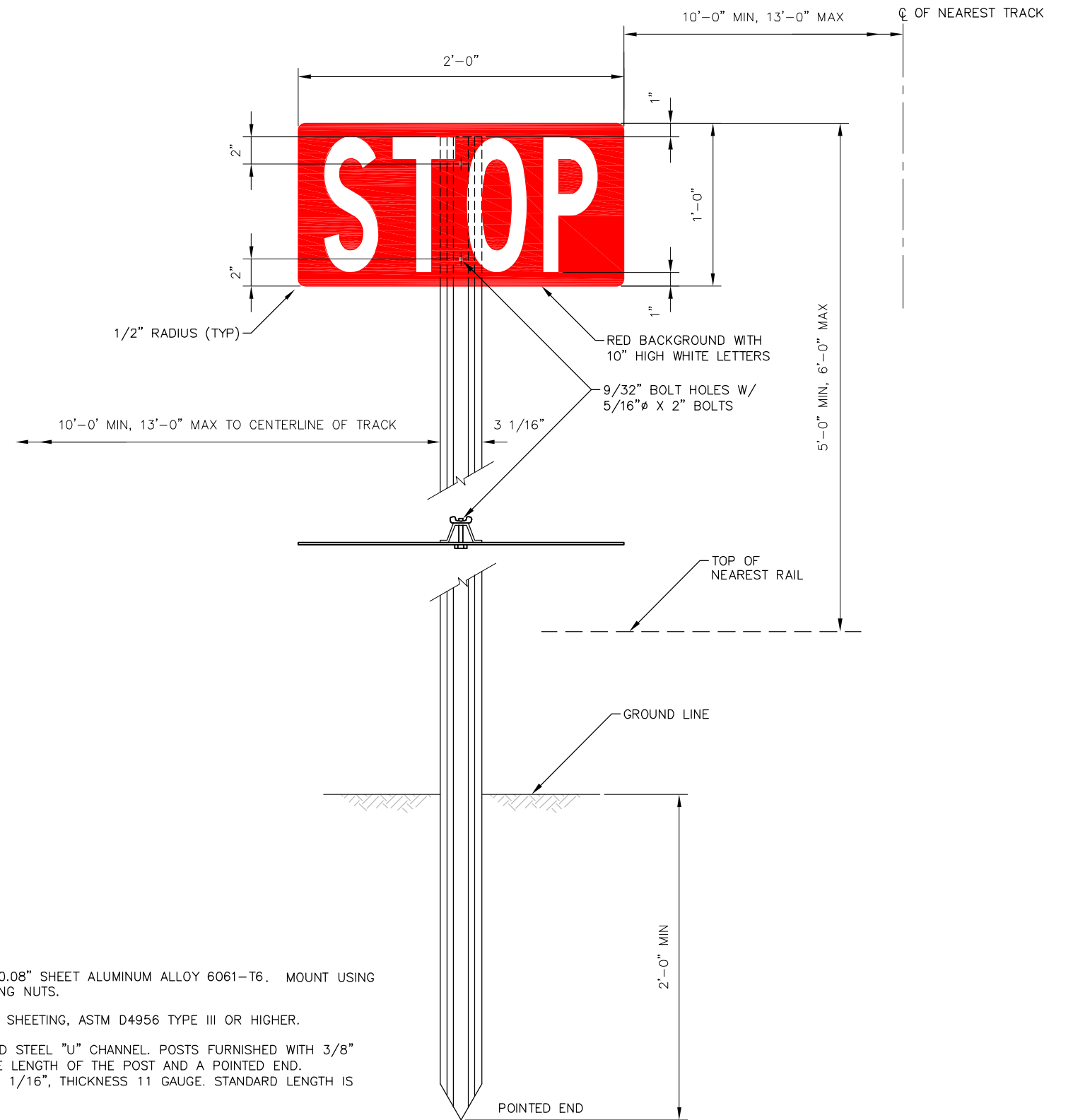
1250 San Carlos Avenue
 San Carlos, CA 94070

STANDARD DRAWINGS

RIGHT-OF-WAY SIGNAGE
MILEPOST MARKER AND
NO TRESPASSING/SUICIDE SIGNS

CADD FILE NAME: SD-9103
 REV: EDITION: FOURTH
 RIGHT-OF-WAY
 STANDARD DRAWING NO.: SD-9103

01012024 FOURTH EDITION



NOTES:

1. SIGNS SHALL BE MANUFACTURED FROM 0.08" SHEET ALUMINUM ALLOY 6061-T6. MOUNT USING HEXAGON BOLTS WITH WASHERS AND WING NUTS.
2. COAT SIGN FACE WITH RETROREFLECTIVE SHEETING, ASTM D4956 TYPE III OR HIGHER.
3. POST SHALL BE HOT-DIPPED GALVANIZED STEEL "U" CHANNEL. POSTS FURNISHED WITH 3/8" HOLES ON 1" CENTERS FOR THE ENTIRE LENGTH OF THE POST AND A POINTED END. DIMENSIONS: DEPTH 1 7/16", WIDTH 3 1/16", THICKNESS 11 GAUGE. STANDARD LENGTH IS 10'-0", LONGER LENGTHS AVAILABLE.
4. FOR LETTERS, SEE SD-9101.

STOP SIGN
SCALE: NTS

PENINSULA CORRIDOR JOINT POWERS BOARD

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Bin Zhang

DEPUTY DIRECTOR, ENGINEERING



1250 San Carlos Avenue
San Carlos, CA 94070

STANDARD DRAWINGS

RIGHT-OF-WAY
SIGNAGE

STOP SIGN

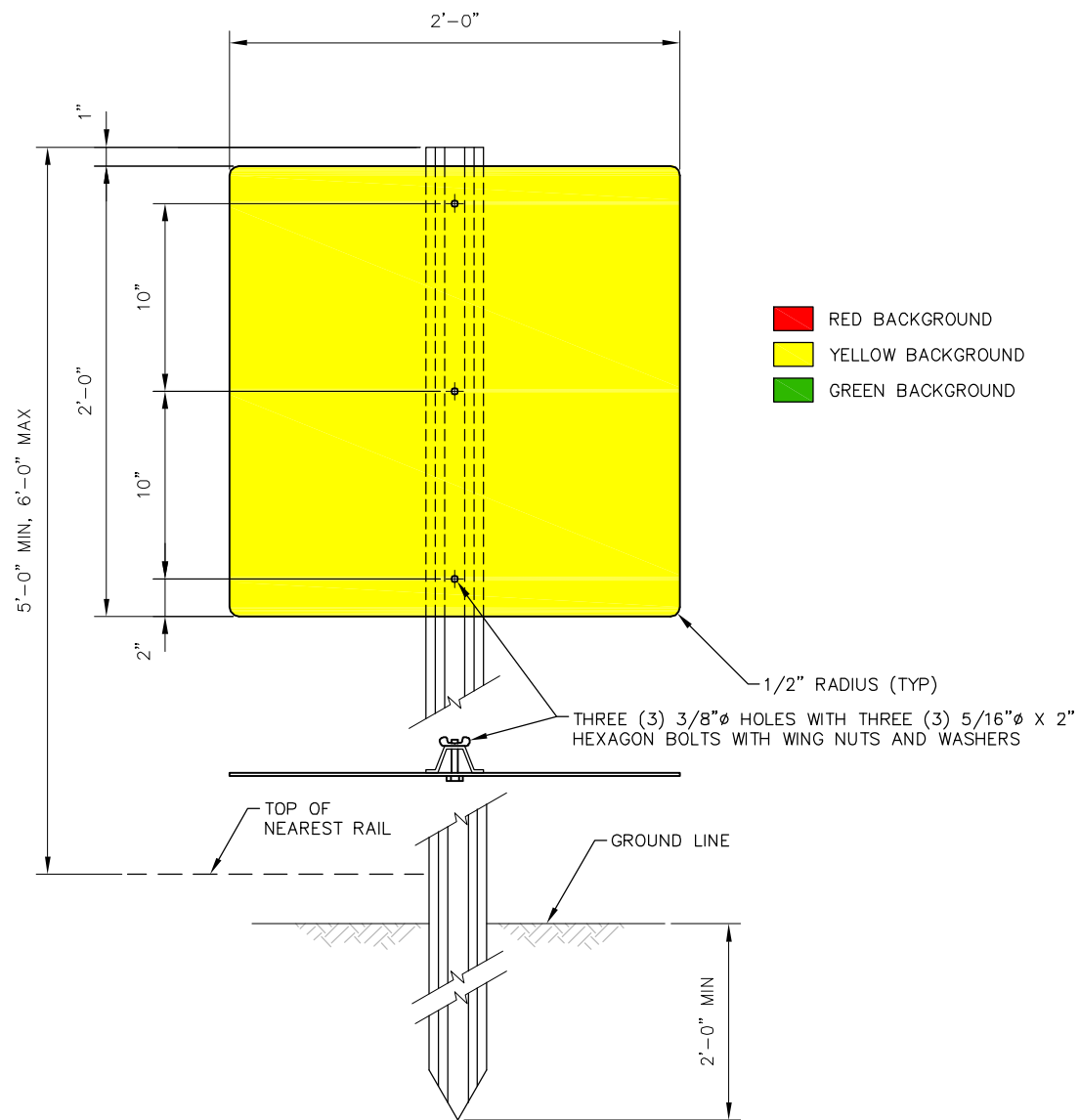
CADD FILE NAME:
SD-9104

REV: EDITION:
 FOURTH

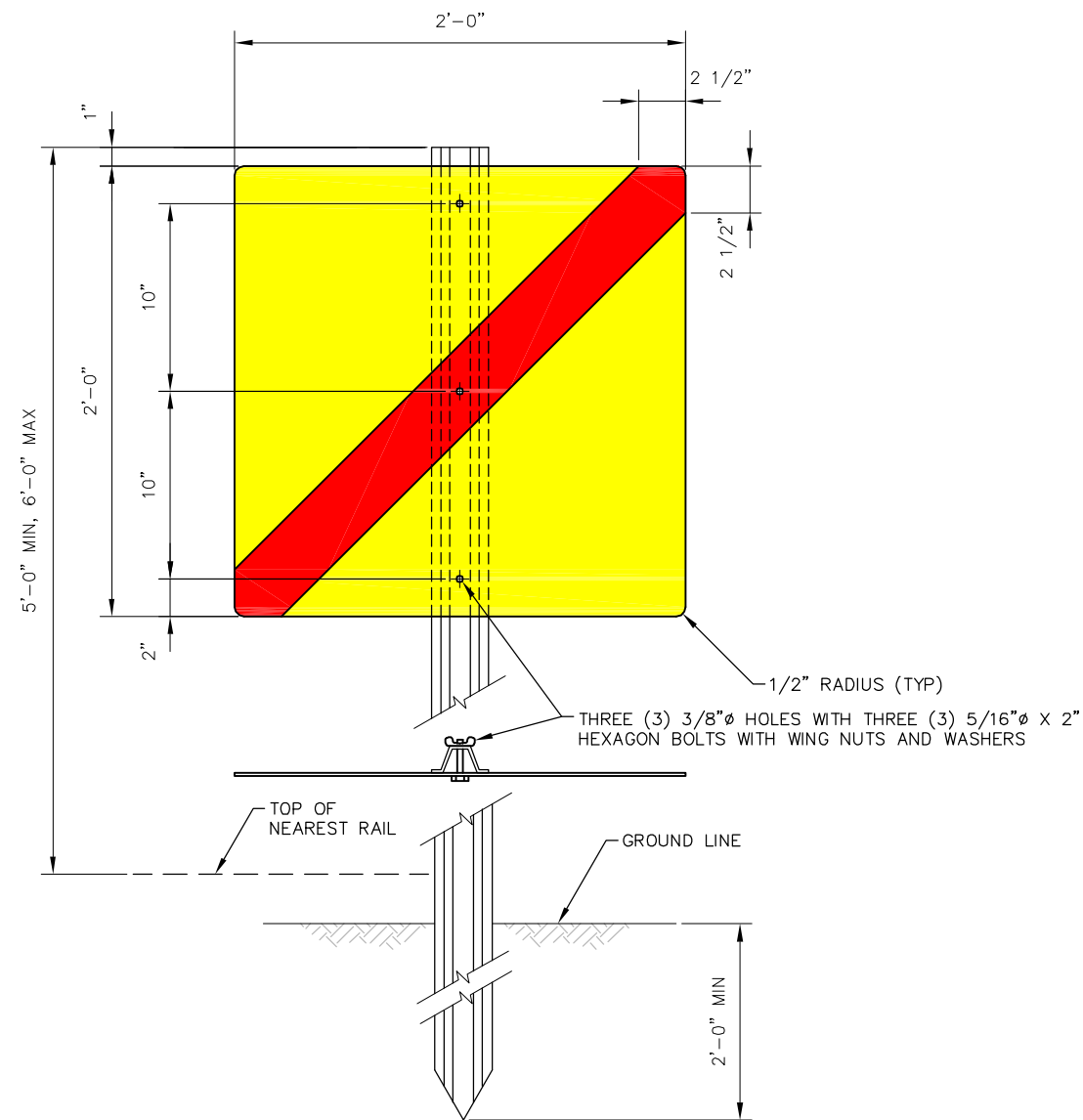
RIGHT-OF-WAY

STANDARD DRAWING NO.:
SD-9104

REV	DATE	BY	CHK	APP	DESCRIPTION	REV	DATE	BY	CHK	APP	DESCRIPTION
					01012024 FOURTH EDITION						



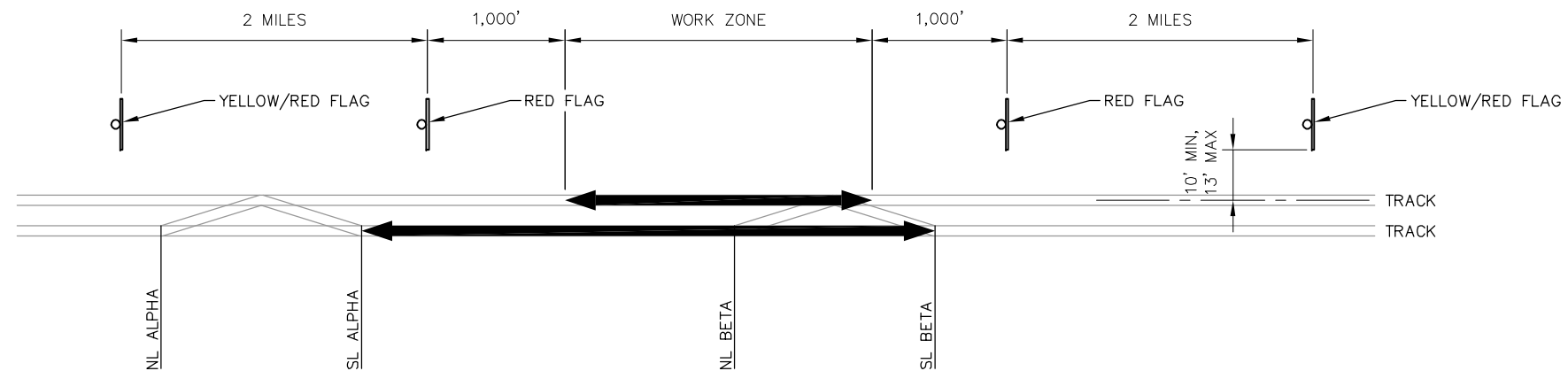
SOLID COLORED (RED, YELLOW OR GREEN) FLAGS
SCALE: NTS



YELLOW/RED FLAG
SCALE: NTS

NOTES:

1. RED FLAGS SHALL BE DISPLAYED WHERE TRAINS MUST BE STOPPED IN ACCORDANCE WITH GENERAL CODE 5.4.7. FLAGS SHALL BE DISPLAYED TO THE RIGHT OF THE TRACK AS VIEWED FROM AN APPROACHING TRAIN OR PLACED BETWEEN THE RAILS.
2. YELLOW/RED FLAGS SHALL BE DISPLAYED 2 MILES BEFORE THE RESTRICTED AREA IN ACCORDANCE WITH GENERAL CODE 5.4.3. FLAGS SHALL BE DISPLAYED TO THE RIGHT OF THE TRACK AS VIEWED FROM AN APPROACHING TRAIN.
3. YELLOW FLAGS SHALL BE DISPLAYED 2 MILES BEFORE THE RESTRICTED AREA IN ACCORDANCE WITH GENERAL CODE 5.4.2. FLAGS SHALL BE DISPLAYED TO THE RIGHT OF THE TRACK AS VIEWED FROM AN APPROACHING TRAIN.
4. GREEN FLAGS SHALL BE DISPLAYED AT THE END OF THE LAST SPEED RESTRICTION IN ACCORDANCE WITH GENERAL CODE 5.4.5. FLAGS SHALL BE DISPLAYED TO THE RIGHT OF THE TRACK AS VIEWED FROM AN APPROACHING TRAIN.
5. DISTANCE FROM CENTERLINE OF TRACK TO THE CLOSEST EDGE OF THE FLAG MUST NOT BE LESS THAN 10 FEET OR MORE THAN 13 FEET.
6. FLAGS SHALL BE MANUFACTURED FROM 0.08" SHEET ALUMINUM ALLOY 6061-T6. MOUNT WITH THREE (3) 5/16" X 2" HEXAGON BOLTS WITH WASHERS AND WING NUTS.
7. COAT SIGN FACE WITH RETROREFLECTIVE SHEETING, ASTM D4956 TYPE III OR HIGHER.
8. POSTS SHALL BE HOT DIPPED GALVANIZED STEEL "U" CHANNEL. POSTS FURNISHED WITH 3/8" HOLES ON 1" CENTERS FOR THE ENTIRE LENGTH OF THE POST AND A POINTED END. DIMENSIONS: DEPTH 1 7/16", WIDTH 3 1/16", THICKNESS 11 GAUGE.



FORM B SIGN PLACEMENT AND TRACK AND TIME LIMITS
SCALE: NTS


REV	DATE	BY	CHK	APP	DESCRIPTION

PENINSULA CORRIDOR JOINT POWERS BOARD

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Bin Zhang

DEPUTY DIRECTOR, ENGINEERING



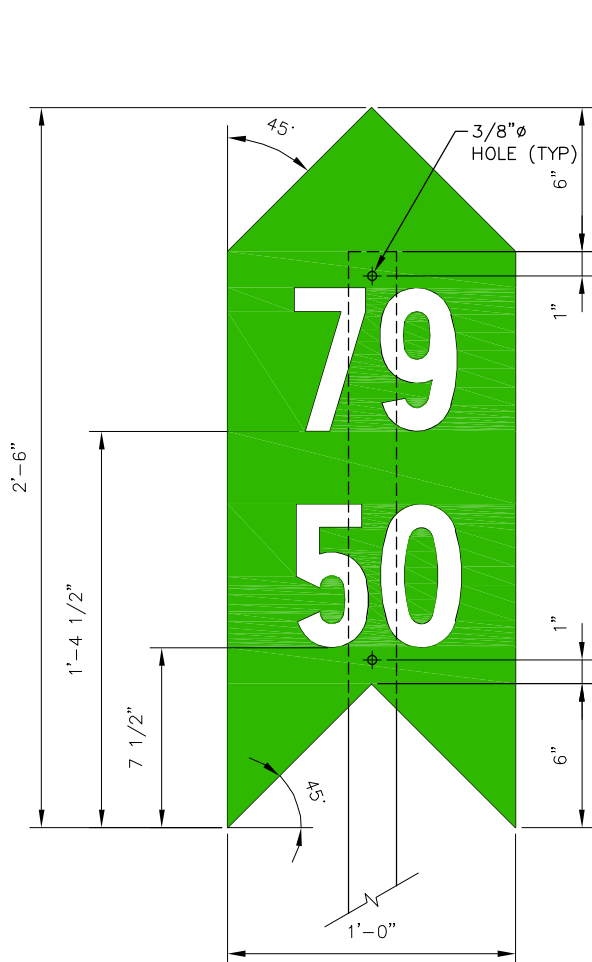
1250 San Carlos Avenue
San Carlos, CA 94070

STANDARD DRAWINGS

RIGHT-OF-WAY
SIGNAGE

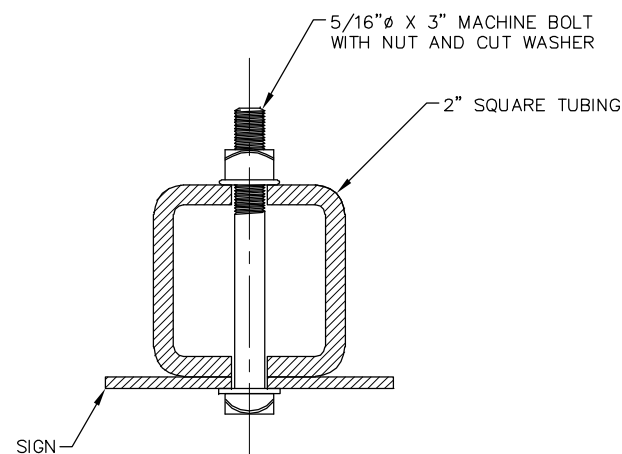
TEMPORARY TRACK CONDITIONS SIGNS

CADD FILE NAME: SD-9105
REV: EDITION: FOURTH
RIGHT-OF-WAY
STANDARD DRAWING NO.: SD-9105



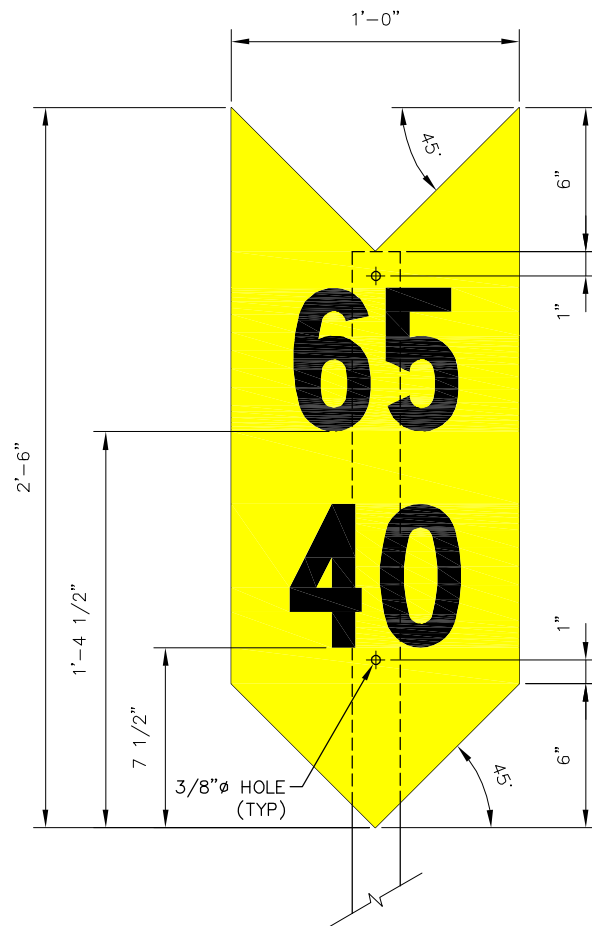
WHITE 6" HIGH NUMERALS ON GREEN BACKGROUND. TOP NUMBER INDICATES PASSENGER SPEED. BOTTOM NUMBER INDICATES FREIGHT SPEED.

INCREASE SPEED SIGN



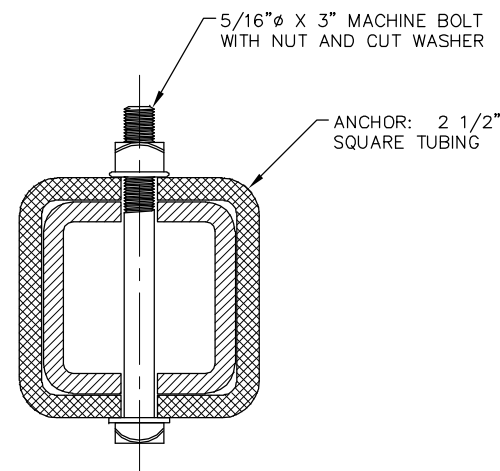
THROUGH SIGN AND POST

A SECTION
SCALE: NTS



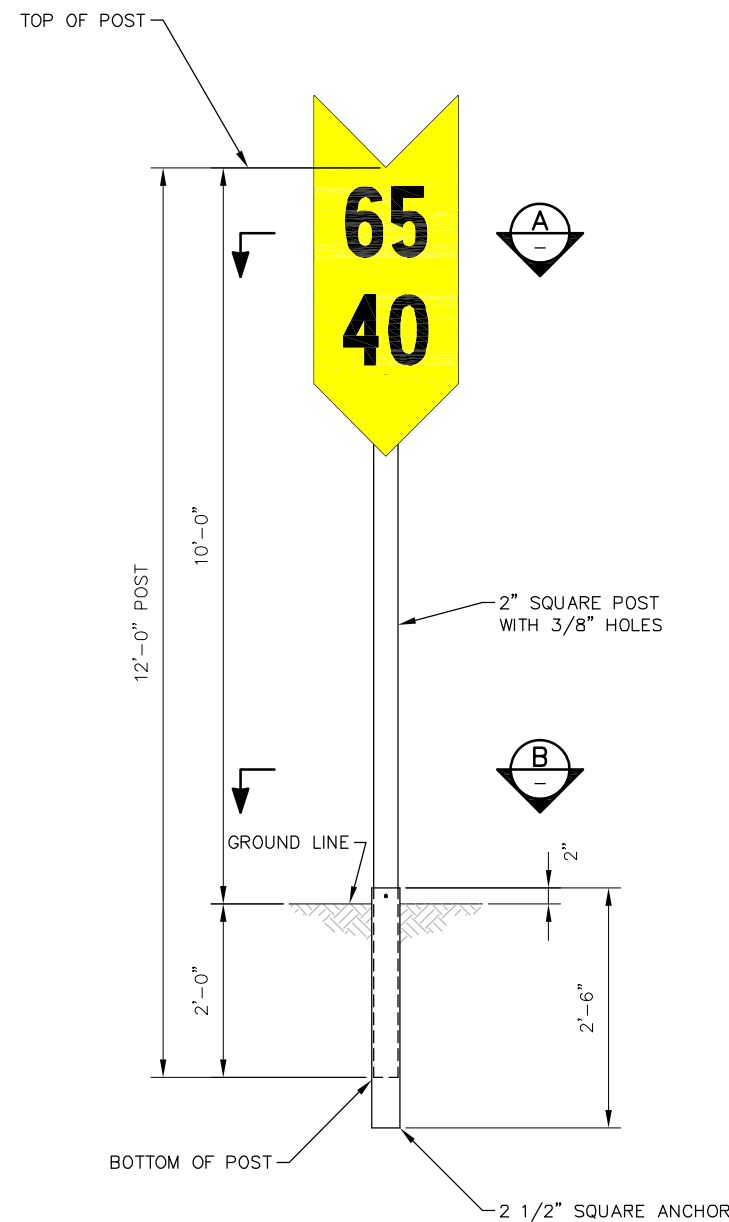
BLACK 6" HIGH NUMERALS ON YELLOW BACKGROUND. TOP NUMBER INDICATES PASSENGER SPEED. BOTTOM NUMBER INDICATES FREIGHT SPEED.

DECREASE SPEED SIGN



THROUGH POST AND ANCHOR

B SECTION
SCALE: NTS



STEEL MOUNTING POST AND INSTALLATION DETAIL

NOTES:

- ALL SIGNS SHALL BE PLACED ON RIGHT SIDE OF TRACK IN THE DIRECTION OF APPROACH TO SPEED CHANGE WITH THE NEAREST POINT OF SIGN TO BE AT MINIMUM OF 10 FEET FROM THE GAGE SIDE OF THE NEAREST RAIL. SIGNS SHALL BE PLACED ON OUTSIDE OF EACH TRACK. SIGNS SHALL BE PLACED ON BOTH SIDES OF THE POST.
- DECREASE SPEED SIGNS SHALL BE LOCATED 2,640 FEET (1/2 MILE) IN ADVANCE OF THE RESTRICTED TERRITORY AND SHALL INDICATE THE MAXIMUM SPEED PERMITTED AS SHOWN IN THE CURRENT TIME TABLE. PASSENGER SPEEDS SHALL BE SHOWN AT THE TOP OF THE SIGNS AND FREIGHT SPEEDS AT THE BOTTOM.
- INCREASE SPEED SIGNS SHALL BE PLACED TO INDICATE WHERE SPEED OF TRAIN MAY BE INCREASED. THESE SIGNS SHALL NOT BE PLACED WHERE THERE IS LESS THAN 1/2 MILE BETWEEN THE END OF ONE SPEED RESTRICTION AND THE BEGINNING OF ANOTHER SPEED RESTRICTION.
- ALL HARDWARE SHALL BE VANDAL RESISTANT AND HOT DIPPED GALVANIZED.
- FOR LETTERS AND NUMERALS, SEE SD-9101.
- SIGN PANELS SHALL BE 0.08" SHEET ALUMINUM ALLOY 6061-T6 WITH RETROREFLECTIVE SHEETING AND PROTECTIVE OVERLAY FILM.
 - COLOR OF NUMERALS: BLACK OR WHITE.
 - PAINT ALL SIDES WITH LINEAR POLYURETHANE.
 - SHEETING: RETRO-REFLECTIVE PRISMATIC, ASTM D4956 TYPE III OR HIGHER.
 - PROTECTIVE OVERLAY FILM: EXTERIOR GRADE WITH PRESSURE SENSITIVE ADHESIVE BACKING.
 - SCREENED PROCESS COLORS, PROTECTIVE OVERLAY FILM AND NONREFLECTIVE, OPAQUE, BLACK FILM SHALL BE APPROVED BY THE RETROREFLECTIVE SHEETING MANUFACTURER.


REV	DATE	BY	CHK	APP	DESCRIPTION

PENINSULA CORRIDOR JOINT POWERS BOARD

APPROVED BY:

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DEPUTY DIRECTOR, ENGINEERING



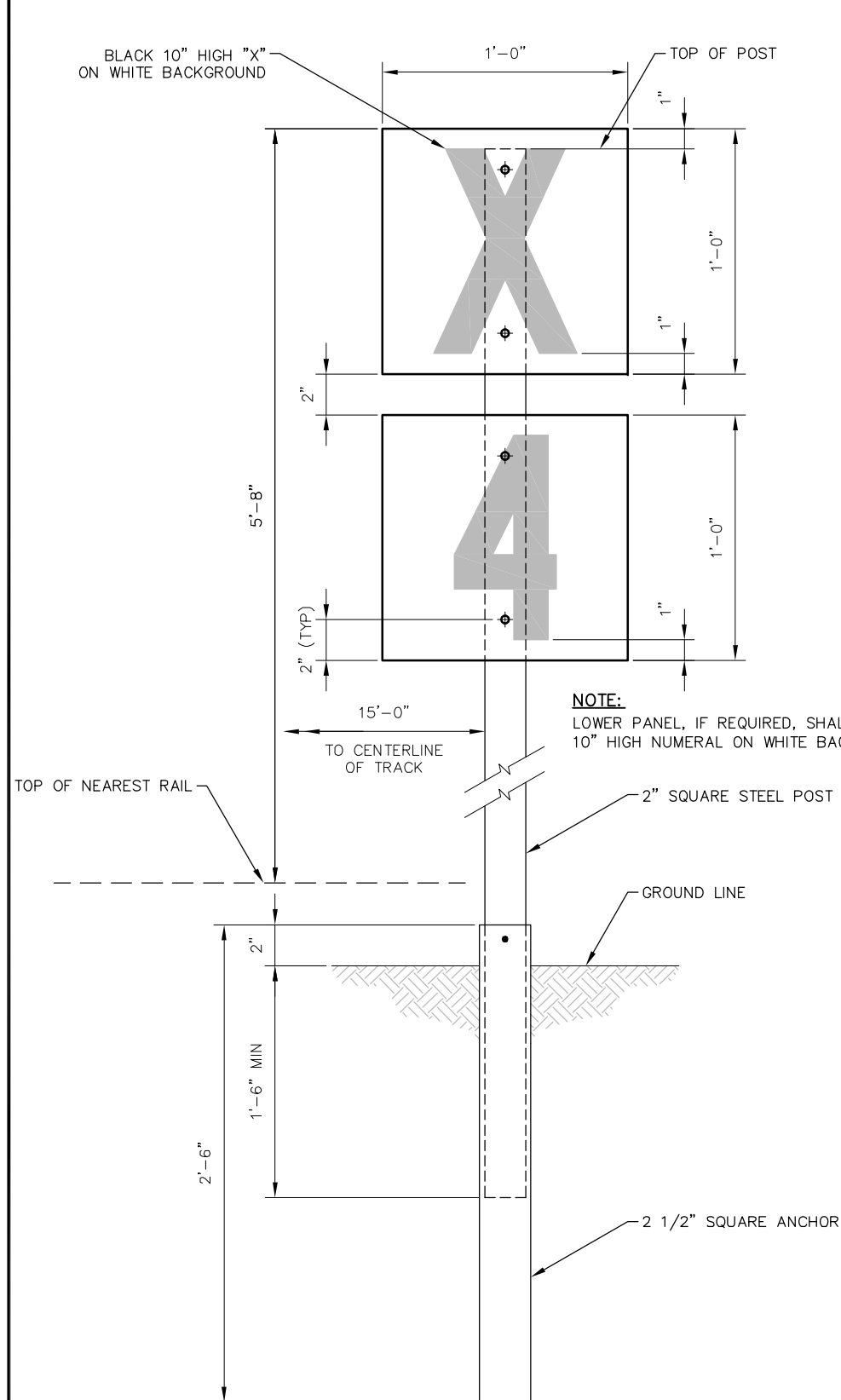
1250 San Carlos Avenue
San Carlos, CA 94070

STANDARD DRAWINGS

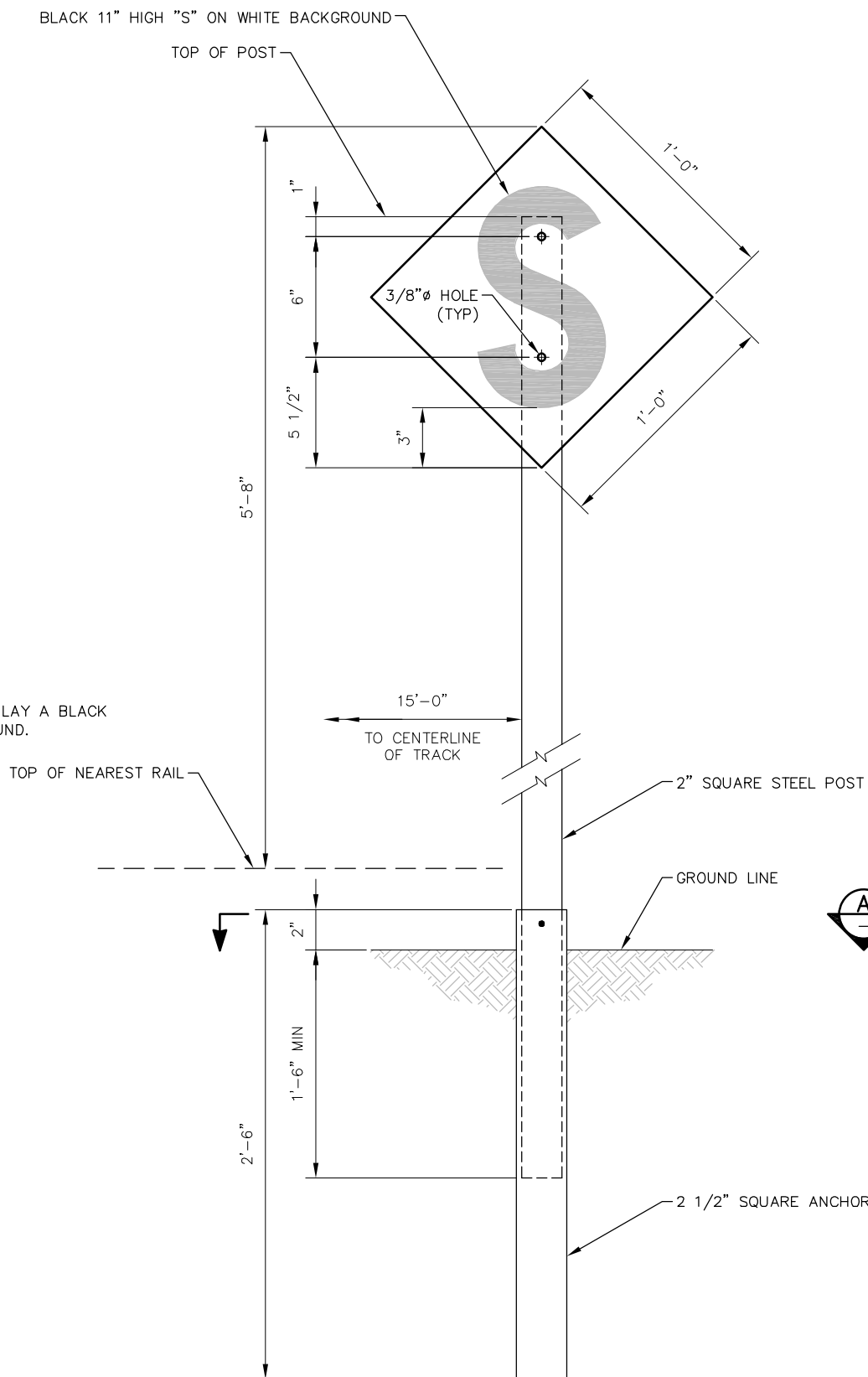
RIGHT-OF-WAY
SIGNAGE

PERMANENT SPEED SIGNS

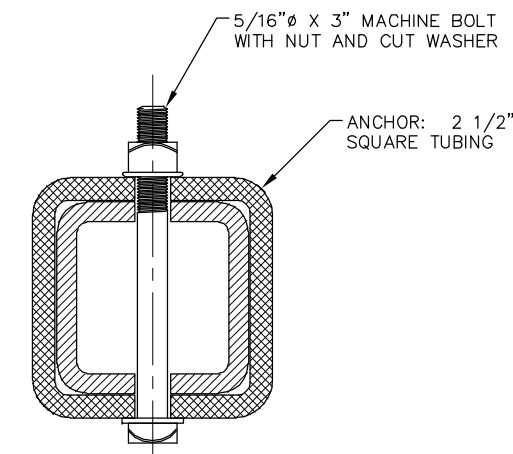
CADD FILE NAME: SD-9106
EDITION: FOURTH
RIGHT-OF-WAY
STANDARD DRAWING NO.: SD-9106



**WHISTLING BOARD
ELEVATION**
SCALE: NTS



**STATION ONE MILE SIGN
ELEVATION**
SCALE: NTS



**THROUGH POST AND ANCHOR
SECTION**
SCALE: NTS

NOTES:

- SIGN SHALL BE LOCATED TO THE RIGHT OF THE TRACK AS VIEWED FROM AN APPROACHING TRAIN.
- SIGN POST SHALL BE LOCATED 15 FEET (10' MIN; 20' MAX) FROM THE CENTER LINE OF TRACK. POSTS SHALL BE PLACED TO THE EAST OF MAIN TRACKS 1 OR 3 AND WEST OF MAIN TRACKS 2 OR 4.
- WHISTLING BOARD SHALL BE PLACED AS NEARLY AS PRACTICABLE ONE QUARTER MILE (1,320') DISTANT FROM CROSSING OR OTHER OBSTRUCTION. WHERE THERE ARE MULTIPLE PUBLIC CROSSINGS NOT MORE THAN ONE QUARTER MILE (1,320') APART, SIGN BEARING LETTER "X" LOCATED ONE QUARTER MILE (1,320') IN ADVANCE OF FIRST CROSSING SHALL ALSO DISPLAY A FIGURE WHICH REPRESENTS THE NUMBER OF CROSSINGS INVOLVED.
- STATION ONE MILE SIGN SHALL BE PLACED ONE MILE (5,280') IN ADVANCE OF A PASSENGER STATION.
- THE SIGN PANELS SHALL BE 0.08" SHEET ALUMINUM ALLOY 6061-T6 WITH RETROREFLECTIVE SHEETING AND PROTECTIVE OVERLAY FILM.
 - COLOR OF NUMERALS AND LETTERS: BLACK.
 - PAINT ALL SIDES WITH LINEAR POLYURETHANE.
 - SHEETING SHALL BE RETRO-REFLECTIVE PRISMATIC, ASTM 4956 CLASS III OR HIGHER.
 - PROTECTIVE OVERLAY FILM: EXTERIOR GRADE WITH PRESSURE SENSITIVE ADHESIVE BACKING.
 - SCREENED PROCESS COLORS, PROTECTIVE OVERLAY FILM AND NONREFLECTIVE, OPAQUE, BLACK FILM SHALL BE APPROVED BY RETROREFLECTIVE SHEETING MANUFACTURER.
- ALL HARDWARE SHALL BE VANDAL RESISTANT AND HOT DIPPED GALVANIZED.
- FOR TEXT AND NUMERALS, SEE SD-9101.


REV	DATE	BY	CHK	APP	DESCRIPTION

PENINSULA CORRIDOR JOINT POWERS BOARD

APPROVED BY:

Bin Zhang

DEPUTY DIRECTOR, ENGINEERING

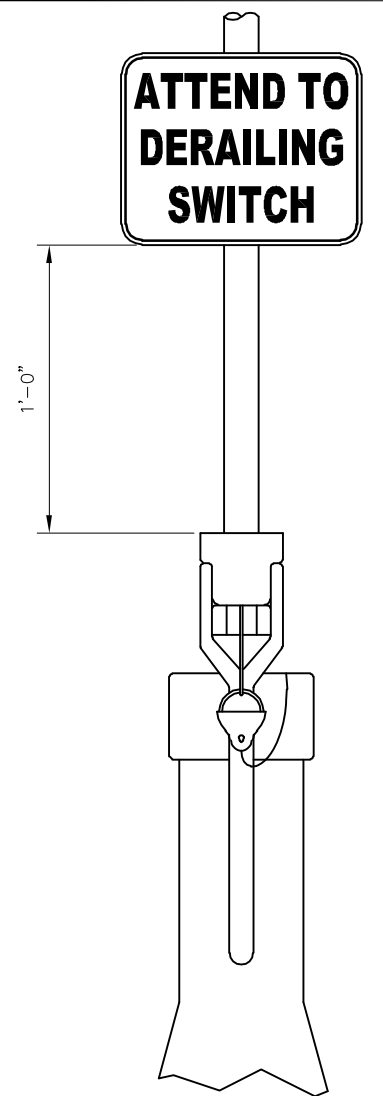


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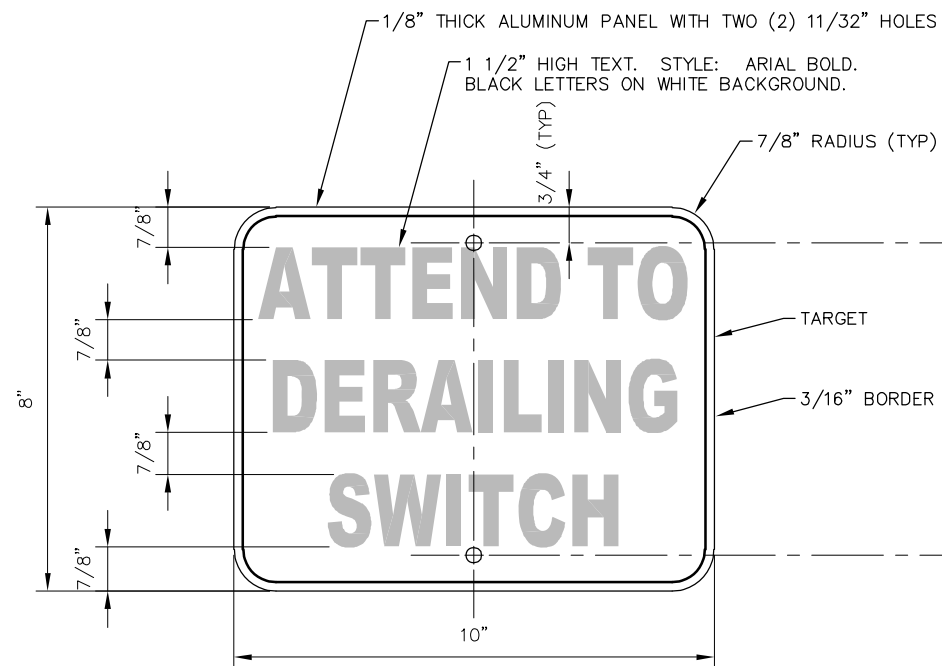
STANDARD DRAWINGS

RIGHT-OF-WAY
SIGNAGE
WHISTLING BOARD AND
STATION ONE MILE SIGN

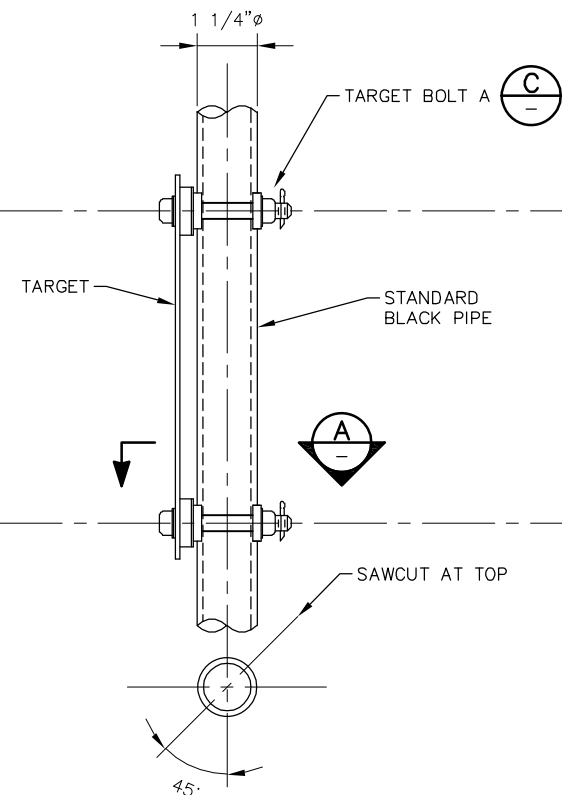
CADD FILE NAME: SD-9107	EDITION: FOURTH
STANDARD DRAWING NO.: SD-9107	RIGHT-OF-WAY



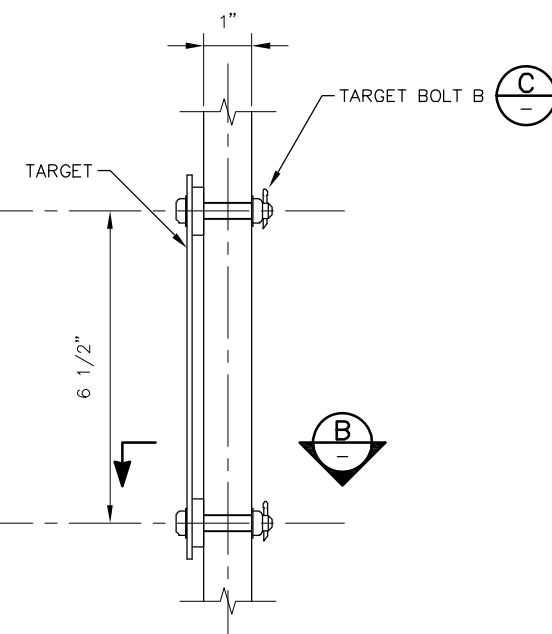
DERAIL SWITCH SIGN
ELEVATION
SCALE: NOT TO SCALE



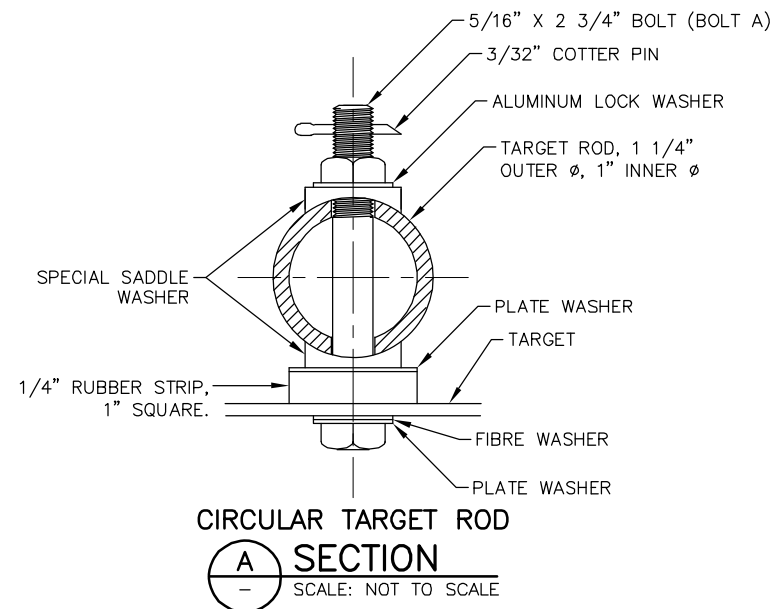
DERAILING SWITCH TARGET
DETAIL
SCALE: NOT TO SCALE



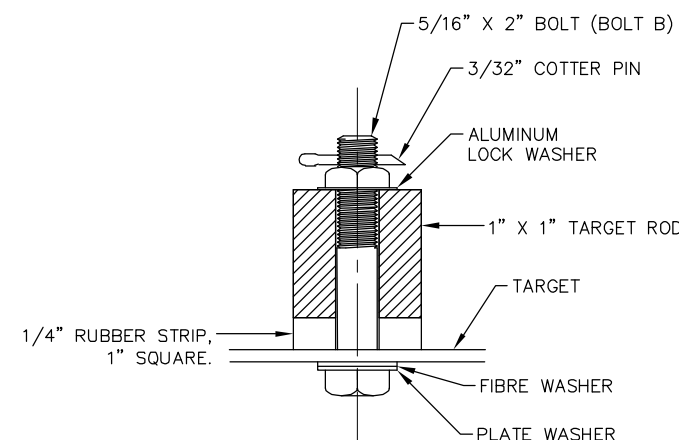
CIRCULAR TARGET ROD
DETAIL
SCALE: NOT TO SCALE



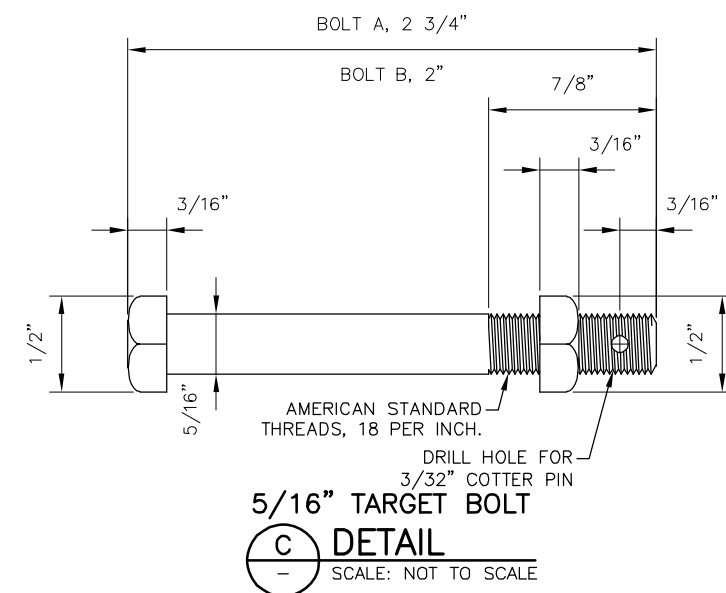
SQUARE TARGET ROD
DETAIL
SCALE: NOT TO SCALE



SECTION A
SCALE: NOT TO SCALE



SECTION B
SCALE: NOT TO SCALE




DETAIL C
SCALE: NOT TO SCALE

REV	DATE	BY	CHK	APP	DESCRIPTION	REV	DATE	BY	CHK	APP	DESCRIPTION
					01012024 FOURTH EDITION						

PENINSULA CORRIDOR JOINT POWERS BOARD

APPROVED BY:
Bin Zhang
DEPUTY DIRECTOR, ENGINEERING

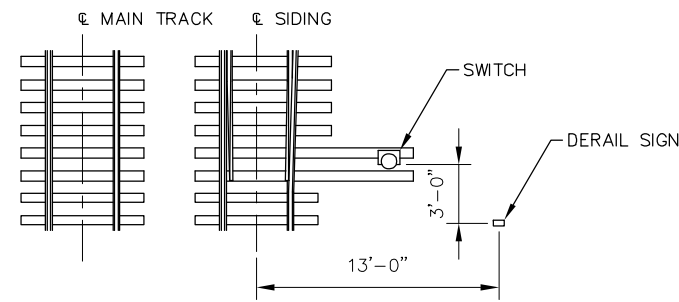


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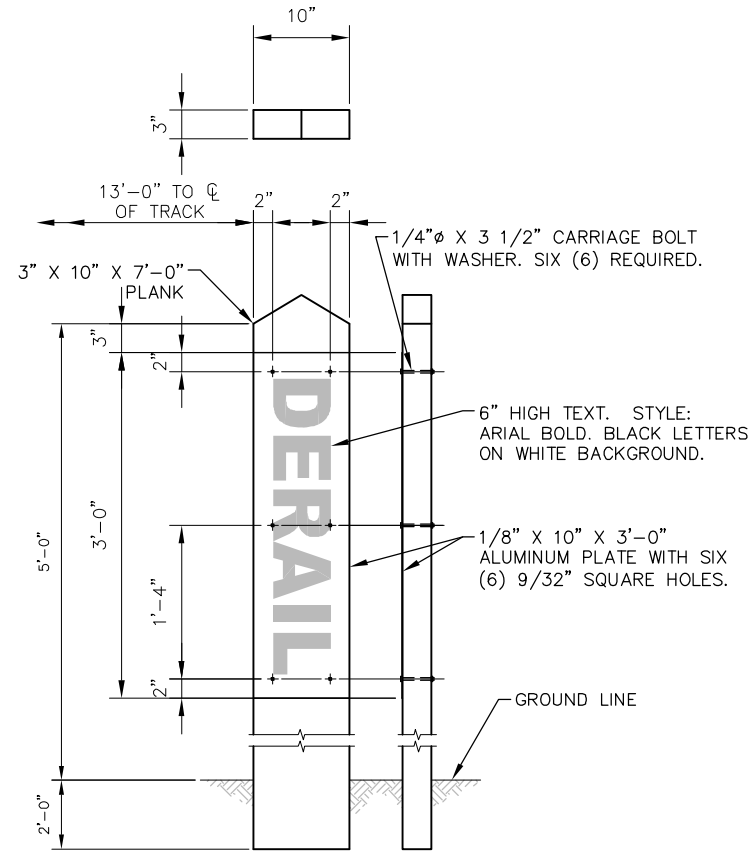
STANDARD DRAWINGS

RIGHT-OF-WAY
SIGNAGE
ATTEND TO DERAILING SWITCH SIGN

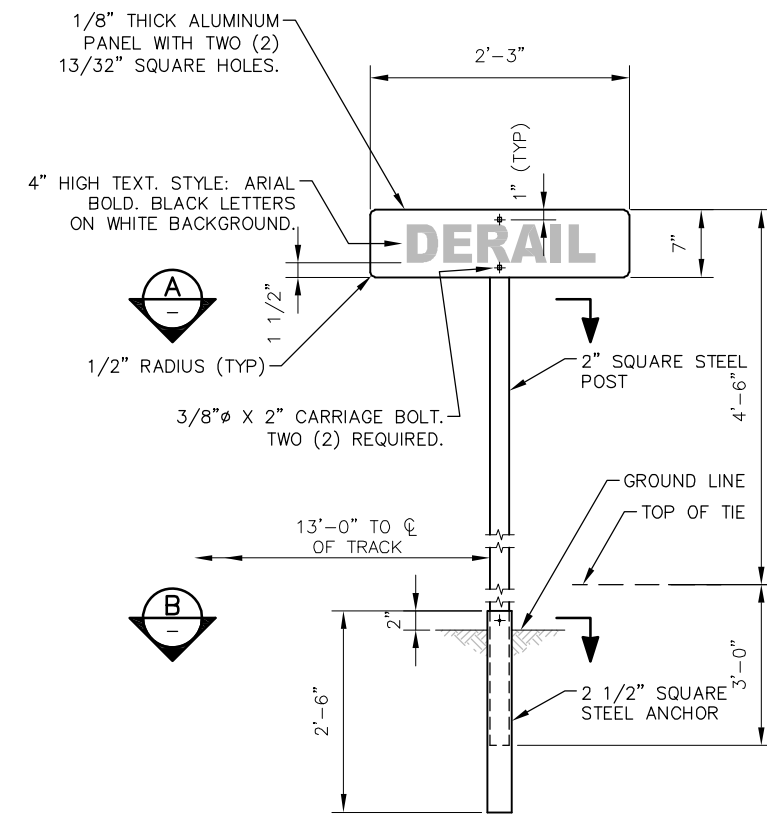
CADD FILE NAME: SD-9108	REV: SD-9108
EDITION: FOURTH	
RIGHT-OF-WAY	
STANDARD DRAWING NO.: SD-9108	



DERAIL SIGN LOCATION PLAN
 SCALE: NOT TO SCALE



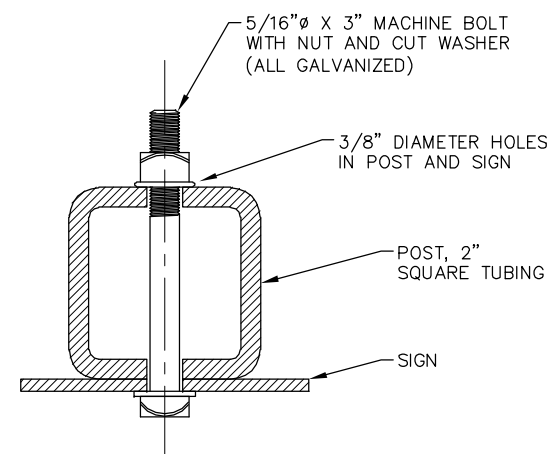
TYPE A



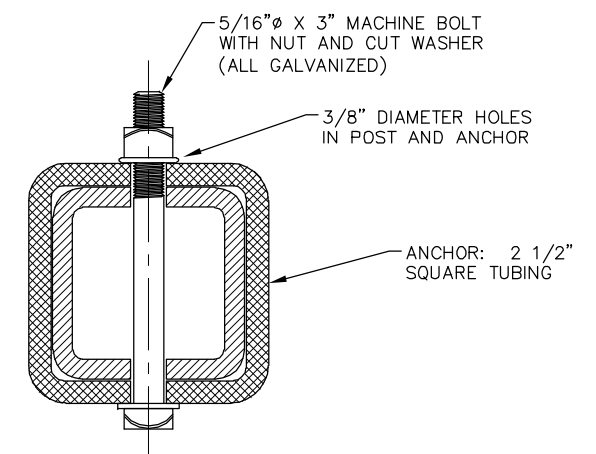
TYPE B

DERAIL SIGNS ELEVATION
 SCALE: NOT TO SCALE

NOTE:
 TYPE A AND TYPE B SIGNS CONFORM TO CALIFORNIA STATE LAW.



THROUGH SIGN AND POST
SECTION A
 SCALE: NOT TO SCALE



THROUGH ANCHOR AND POST
SECTION B
 SCALE: NOT TO SCALE

REV	DATE	BY	CHK	APP	DESCRIPTION	REV	DATE	BY	CHK	APP	DESCRIPTION
					01012024 FOURTH EDITION						

PENINSULA CORRIDOR JOINT POWERS BOARD
 APPROVED BY:
Bin Zhang
 DEPUTY DIRECTOR, ENGINEERING

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STANDARD DRAWINGS
 RIGHT-OF-WAY SIGNAGE
 DERAIL SIGN

CADD FILE NAME: SD-9109
 REV: EDITION: FOURTH
 RIGHT-OF-WAY
 STANDARD DRAWING NO.: SD-9109