

### BENCHMARK

VERTICAL AND HORIZONTAL DATUM:

VERTICAL AND HORIZONTAL DATUM INFORMATION WAS TAKEN FROM THE NGS DATA SHEET FOR PID H55126.  
 VERTICAL DATUM: NAVD88  
 ELEVATION: 120.96'  
 HORIZONTAL DATUM: NAD83-2011, CALIFORNIA SPCS, ZONE 3

DESCRIPTION: STATION IS LOCATED ON THE EAST SIDE OF LOS BANOS, AT THE LOS BANOS MUNICIPAL AIRPORT, IN THE MEDIAN OF THE RUNWAY AND THE PARALLEL TAXI, NEAR THE FRONT VASI FOR RUNWAY 32. TO REACH THE JUNCTION OF STATE HIGHWAY 152 AND WEST I STREET ON THE WEST SIDE OF LOS BANOS, GO NORTHEAST ON WEST I STREET FOR 0.06 MI TO A PAVED ROAD LEFT. TURN LEFT, SOUTHWEST, ON PAVED ROAD FOR 0.25 MI TO A LOCKED GATE ON THE RIGHT. TURN RIGHT, NORTHEAST, THROUGH GATE, PASSING TO RIGHT OF FUEL PUMPS, ACROSS APRON FOR 0.05 MI TO THE PARALLEL TAXI. TURN LEFT, NORTHWEST, ON TAXI FOR 0.06 MI TO THE STATION ON THE RIGHT. STATION MARK IS SET IN THE TOP OF A 30-CM ROUND CONCRETE POST FLUSH WITH THE GROUND ON A SLIGHT HUMP IN A BARE AREA. IT IS 142.1 FT SOUTHWEST OF THE RUNWAY CENTER, 103.3 FT NORTHEAST OF THE EDGE OF THE APRON/TAXI, 26.6 FT SOUTHWEST OF THE SOUTH CORNER OF THE CONCRETE PAD FOR THE OUTBOARD VASI, 73.8 FT NORTHWEST OF THE EXTENDED SOUTHWEST WALL OF A HANGAR AND 1.3 FT NORTHWEST OF A FIBERGLASS WITNESS POST.

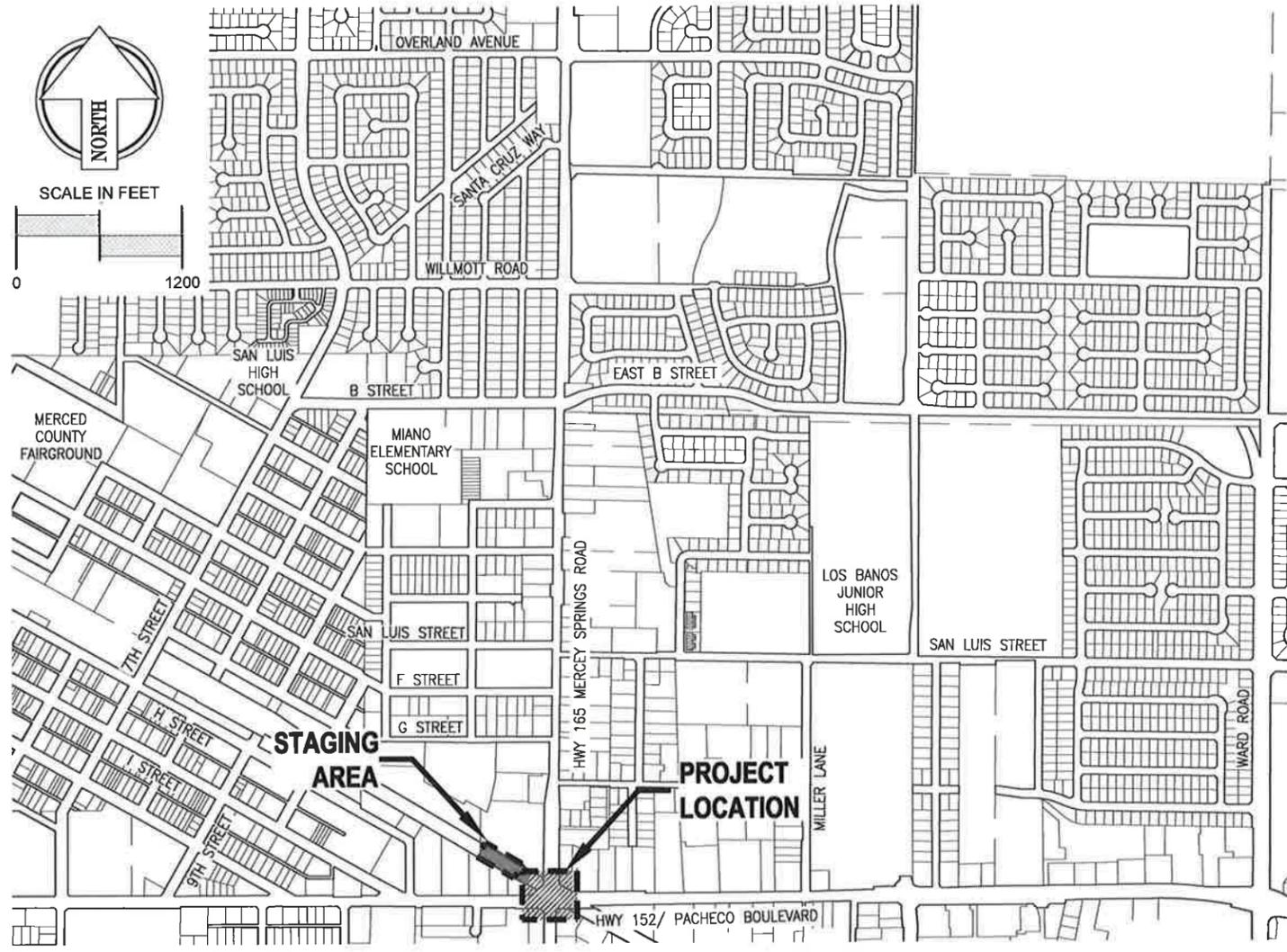
### LEGEND

	EXISTING	PROPOSED
UNDERGROUND COMMUNICATIONS LINE	— COM —	
UNDERGROUND ELECTRICAL LINE	— E —	
OVERHEAD UTILITY LINE	— OHL —	
POWER POLE		
STREET LIGHT		
GAS VALVE		
GAS LINE	— G —	
WATER METER		
FIRE HYDRANT		
WATER VALVE		
SANITARY SEWER MANHOLE		
STORM DRAIN MANHOLE		
DRAIN INLET		
STREET SIGN		
TRAFFIC SIGNAL		
MONUMENT WELL		
CONTOUR ELEVATION	109.50	
DIRECTION OF TRAVEL		
CONE/DELINEATOR		
CONCRETE		
AC TRENCH REPAIR		

FOR CLARITY PURPOSES SYMBOLS SHOWN IN THE LEGEND MAY APPEAR SMALLER THAN SHOWN ON THE PLANS.

# PROJECT PLANS FOR CONSTRUCTION OF TACO BELL/RALLY'S SEWER LINE REPAIR

CITY OF LOS BANOS  
 To be supplemented by CalTrans 2015 Standard Plans and Standard Specifications



### INDEX OF DRAWINGS

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6	DETOUR PLAN FOR SB SR-165 TRAFFIC CONTINUING EB AND WB ON SR-152
7	TRENCH BACKFILL, FRAME ADJUSTMENT, AND TRAFFIC CONTROL DETAILS

#### UTILITY CONTACTS

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#### CALTRANS CONTACT

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Plan sheets in this plan set are full size when printed on 11x17 size sheets without an exaggeration. The bar scale should be used to check plan sheet scale.

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City of Los Banos  
**Taco Bell/Rally's Sewer Line Repair**  
**LOCATION MAP AND INDEX OF DRAWINGS**

DESIGNED BY DGR	DATE 06/23/2017	DRAWING <b>C-101</b>
DRAWN BY DGR	DATE 06/28/2017	SHEET <b>1</b>
CHECKED BY M. GOUVEIA	DATE 06/28/2017	OF 7 SHEETS
APPROVED BY M. GOUVEIA	DATE 06/28/2017	PROJECT NUMBER 830.03

### ABBREVIATIONS

ABBREVIATIONS	DESCRIPTION
±	PLUS OR MINUS (NOT EXACT)
@	AT
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
ACP	ASBESTOS CEMENT PIPE
AP	ANGLE POINT
ARV	AIR RELEASE VALVE
BC	BEGINNING OF CURVE
BNDY	BOUNDARY
BO	BLOW-OFF
BP	BYPASS
BOW	BACK OF SIDEWALK
CL	CENTERLINE
C&G	CURB AND GUTTER
CB OR CBSN	CATCH BASIN
CLR	CLEAR
CO	CLEAN OUT
CLB	CITY OF LOS BANOS
C OR CONC	CONCRETE
CONT	CONTINUOUS
CORP	CORPORATION
D OR SD	STORM DRAIN
Ø OR DIA	DIAMETER
EA	EACH
EC	END OF CURVE
EG	EXISTING GROUND
EL	ELBOW
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EQ	EQUAL OR EQUIVALENT
EX OR EXIST	EXISTING
EW	EACH WAY
FH	FIRE HYDRANT
FL	FLOW LINE
FOC	FACE OF CURB
FT	FOOT OR FEET
GB	GRADE BREAK
HDPE	HIGH DENSITY POLYETHYLENE
HGL	HYDRAULIC GRADE LINE
HORIZ	HORIZONTAL
HP	HIGH POINT
ID	INSIDE DIAMETER
INV	INVERT
IRR	IRRIGATION
LF	LINEAR FEET
LT	LEFT
MAX	MAXIMUM
MH	MAINTENANCE HOLE
MIN	MINIMUM
N	NORTH
NO OR #	NUMBER
NTS	NOT TO SCALE
OC OR O.C.	ON CENTER
OD	OUTSIDE DIAMETER
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PSI	POUNDS PER SQUARE INCH
PT	POINT
PVC	POLYVINYL CHLORIDE PIPE
R	RADIUS
R/W	RIGHT OF WAY
RCP	REINFORCED CONCRETE PIPE
RT	RIGHT
SW	SIDEWALK
SCH	SCHEDULE
SDMH	STORM DRAIN MAINTENANCE HOLE
SF	SQUARE FEET
SHT	SHEET
SQ	SQUARE
SS OR S	SANITARY SEWER
SSMH	SANITARY SEWER MAINTENANCE HOLE
STA	STATION
STD	STANDARD
TEMP	TEMPORARY
TYP	TYPICAL
VERT	VERTICAL
W	WATER
WV	WATER VALVE

### TRAFFIC MANAGEMENT AND DETOUR NOTES

1. THE TRAFFIC MANAGEMENT PLAN (TMP) IS INTENDED TO SHOW TYPICAL LAYOUTS OF THE TRAFFIC CONTROL DEVICES BEING USED DURING THE CONSTRUCTION OF THE PROJECT.
2. THE 2014 CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) WAS USED TO DESIGN THIS TRAFFIC CONTROL PLAN. THE FOLLOWING SECTIONS ARE SPECIFICALLY REFERENCED: TABLE 6C-1, TABLE 6C-3(CA), TABLE 6F-101(CA), SECTIONS 6G.08-10,13,&19.
3. THE CONTRACTOR SHALL COORDINATE TRAFFIC CONTROL EFFORTS IN ACCORDANCE WITH THE APPROVED ENCROACHMENT PERMIT WITH THE CALTRANS FIELD ENGINEER, PUBLIC WORKS DEPARTMENT, AND THE ENGINEER OF RECORD DURING THE CONSTRUCTION OF THE PROJECT.
4. THE CONTRACTOR IS REQUIRED TO MAINTAIN EMERGENCY VEHICLE ACCESS THROUGH THE PROJECT AREA AT ALL TIMES.
5. ALL SIGNS AND TRAFFIC CONTROL DEVICES BEING USED SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE MUTCD. THE EXACT LOCATIONS OF SIGNS SHALL BE DETERMINED BY THE CITY OF LOS BANOS AND/OR CALTRANS FIELD ENGINEER.
6. THE CONTRACTOR SHALL HAVE ALL SIGNS, DELINEATORS, BARRICADES, ETC., PROPERLY PLACED PRIOR TO COMMENCING CONSTRUCTION AND SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING THE TRAFFIC CONTROL DEVICES BEING IMPLEMENTED THROUGHOUT THE CONSTRUCTION OF THE PROJECT.
7. AS PART OF THE TRAFFIC CONTROL MEASURES FOR THE PROJECT AND IN ADDITION TO THE STANDARD SIGNAGE, PROGRAMMABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE SET UP ONE WEEK IN ADVANCE OF CONSTRUCTION. THE MESSAGE SIGNS SHALL BE PROGRAMMED TO CAUTION MOTORISTS TO EXPECT DELAYS/DETOURS DURING THE TIMES AND DATES WHEN THE DETOURING TRAFFIC WILL BE REQUIRED AT THE INTERSECTION.
8. WHEN WORK IS NOT BEING PERFORMED, ALL ROADWAYS SHALL BE RETURNED TO THEIR FULL TRAFFIC USAGE BY PLATING OPEN TRENCHES AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES USED FOR TRAFFIC CONTROL OR DETOUR. PCMS SIGNS SHALL REMAIN IN PLACE THROUGHOUT THE CONSTRUCTION OF THE PROJECT.
9. REFLECTIVE TABS ARE NOT ACCEPTABLE TO BE USED AS TEMPORARY DELINEATION DEVICES.
10. CONES/DELINEATORS ARE TO BE SPACED TO PROVIDE 3' CLEARANCE FROM THE WORK AREA AND TO PROVIDE 12' CLEAR TRAVEL LANES. THE WORK AREA IS DEFINED AS THE AREA WHERE WORKERS, EQUIPMENT, MATERIALS, AND THE PROPOSED WORK IS OCCURRING.
11. CONE/DELINEATOR SPACING SHALL NOT EXCEED 50' ON THE TANGENT SECTIONS WITHIN THE WORK AREA AND 20' FOR TAPERS UNLESS NOTED OTHERWISE ON THE PLANS. AT THE INTERSECTION THE CONE/DELINEATOR SPACING SHALL BE REDUCED TO THE SPACING SHOWN ON THE PLANS OR AS SPECIFIED BY THE CALTRANS FIELD ENGINEER. MUTCD REFERENCE TABLE 6F-101(CA).
12. THE CONTRACTOR SHALL DIRECT PEDESTRIANS TO USE ALTERNATE CROSSWALKS WHILE CONSTRUCTION IS TAKING PLACE WITHIN A CROSSWALK.
13. THE CONTRACTOR SHALL NOTIFY ALL OWNERS WITHIN THE AFFECTED AREA AT LEAST 2 FULL BUSINESS DAYS PRIOR TO ANY ROAD CLOSURE.
14. TRAFFIC SIGNALS ARE REQUIRED TO REMAIN IN OPERATION DURING DAYTIME WORKING HOURS AND WILL NOT BE SET TO A FLASHING MODE.
15. THE CONTRACTOR SHALL COORDINATE CHANGES TO THE TRAFFIC SIGNAL CONFIGURATION THROUGHOUT THE PROJECT AREA WITH THE CALTRANS FIELD ENGINEER PRIOR TO ANY WORK. TRAFFIC SIGNALS EFFECTED BY CONSTRUCTION ACTIVITIES WILL BE SET TO A TIMER MODE WHILE CONSTRUCTION ACTIVITIES ARE OCCURRING.
16. ANY PROPOSED CHANGES TO THE APPROVED TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY OF LOS BANOS AND BY THE CALTRANS FIELD ENGINEER.

### GENERAL NOTES

1. PROJECT WORK HOURS ARE:  
NIGHT WORK SUN - THURS 10PM - 6AM
2. THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS".
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN ENCROACHMENT PERMIT FROM CALTRANS PRIOR TO PERFORMING ANY WORK.
4. SURVEY MONUMENTS ARE NOT LOCATED AS PART OF THE USA CALL BEFORE YOU DIG PROCESS. THE PROJECT SURVEYOR SHALL LOCATE AND MARK THE MONUMENTS WITHIN THE PROJECT ENVELOPE FOR PRESERVATION.
5. PURSUANT TO SECTION 8771 OF THE CALIFORNIA BUSINESS AND PROFESSIONALS CODE, THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION AND PRESERVATION OF ANY MONUMENTATION FOUND WITHIN OR ADJACENT TO THE PROJECT IMPROVEMENTS. IF PROJECT IMPROVEMENTS ENCROACH UPON AN AREA WHERE MONUMENTATION IS PRESENT, THE ENGINEER OF RECORD MUST BE CONTACTED AND THE MONUMENT MUST BE PROTECTED AND REMAIN UNDISTURBED BY CONSTRUCTION ACTIVITIES. IF AN EXISTING MONUMENT IS DISTURBED DURING CONSTRUCTION, THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS RELATED TO RESTORATION OF THE MONUMENT INCLUDING THE DOCUMENTATION, RECORDATION, AND RESETING OF THE MONUMENT (IF REQUIRED) BY THE ENGINEER OF RECORD.
6. EXISTING UTILITY LOCATIONS ARE SHOWN BASED ON USA MARKINGS COLLECTED IN THE FIELD AND RECORD INFORMATION. ACTUAL BUILT LOCATIONS MAY VARY. THE ENGINEER DOES NOT GUARANTEE THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS TO BE EITHER TRUE OR EXACT. THE CONTRACTOR SHALL VERIFY ACTUAL DEPTH AND EXACT LOCATION OF EXISTING UTILITIES PRIOR TO EXCAVATION ACTIVITIES. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHILE EXCAVATING IN AREAS NEAR NATURAL GAS, TV, PHONE, AND OTHER EXISTING UTILITIES AND IS RESPONSIBLE FOR ALL COSTS RELATED TO DAMAGED LINES OR DISRUPTION OF SERVICE CAUSED BY ANY ACTIVITIES AS THEY RELATE TO THIS PROJECT.
7. CALTRANS UNDERGROUND FACILITIES ARE NOT LOCATED AS PART OF THE USA CALL BEFORE YOU DIG PROCESS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A LOCATION SERVICE TO LOCATE ALL EXISTING CALTRANS UNDERGROUND FACILITIES WITHIN THE PROJECT AREA PRIOR TO EXCAVATION ACTIVITIES. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS RELATED TO DAMAGED UNDERGROUND FACILITIES CAUSED BY ANY ACTIVITIES AS THEY RELATE TO THIS PROJECT.
8. THE CONTRACTOR SHALL BE AWARE OF EXISTING OVERHEAD UTILITY LINES AND SHALL EXERCISE CAUTION WHILE WORKING NEAR SUCH LINES. OVERHEAD UTILITY LINES HAVE BEEN OMITTED FROM PLANS FOR CLARITY PURPOSES.
9. THE CONTRACTOR SHALL EXERCISE CARE TO MINIMIZE DAMAGE TO FACILITIES ADJACENT TO PROJECT IMPROVEMENTS SUCH AS EQUIPMENT, FENCING, CONCRETE FLATWORK, LANDSCAPING, LANDSCAPE IRRIGATION, ECT., DESIGNATED TO REMAIN. ANY FACILITIES DAMAGED BY THE CONTRACTOR SHALL BE RESTORED IN KIND AT NO COST TO THE CITY TO THEIR ORIGINAL PRE-CONSTRUCTION CONDITION OR BETTER. DISTURBED AND DAMAGED SURFACES SHALL BE RESTORED AFTER ALL CONSTRUCTION IS COMPLETE AND PRIOR TO CITY ACCEPTANCE.
10. IN INSTANCES WHERE RESTORATION OF THE PAVEMENT IMPACTS ADJACENT FACILITIES SUCH AS EXISTING UTILITY FRAMES AND COVERS, THOSE FACILITIES SHALL BE RAISED TO GRADE AS PART OF THE PROJECT IMPROVEMENTS EVEN IF NOT SHOWN OR ACCOUNTED FOR IN THE PROJECT PLANS AND SPECIFICATIONS.
11. WHERE EXCAVATIONS ARE 5 FEET DEEP OR GREATER THE CONTRACTOR IS REQUIRED TO OBTAIN A CAL-OSHA PERMIT AND PREPARE A SHORING PLAN FOR THE EXCAVATION. THE SHORING PLAN SHALL BE PREPARED, SIGNED, AND STAMPED BY A REGISTERED CALIFORNIA CIVIL ENGINEER. A COPY OF THE PLAN IS TO BE PROVIDED TO THE STATE REPRESENTATIVE IN THE FIELD BEFORE CONSTRUCTION BEGINS.
12. CONSTRUCTION TRENCHES THAT ARE REQUIRED TO REMAIN OPEN OVERNIGHT MUST HAVE STEEL TRAFFIC PLATE(S) WITH A NON-SKID SURFACE SECURELY INSTALLED. THESE PLATES SHALL BE INSTALLED PER THE CALTRANS PERMIT REQUIREMENTS FOR (602.1) TEMPORARY STEEL PLATE BRIDGING-WITH A NON SKID SURFACE.
13. STEEL PLATES GREATER THAN 5 FEET 3 INCHES WIDE SHALL BE DESIGNED BY A REGISTERED CALIFORNIA CIVIL ENGINEER.

### GENERAL NOTES (Continued)

14. TYPE K RAILING WILL BE USED TO MAINTAIN THE SAFE SEPARATION BETWEEN THE TRAVEL WAY AND THE WORK AREA IN AREAS WHERE MAINTAINING ACCESS TO RESIDENTS OR BUSINESSES IS NOT A PROJECT CONCERN AND THE MINIMUM DISTANCE FROM THE EXCAVATION TO THE NEAREST OPEN TRAVEL LANE CAN NOT BE MAINTAINED. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH SECTION 7-1.04 PUBLIC SAFETY IN THE CALTRANS STANDARDS AND SPECIFICATIONS.
15. THE CONTRACTOR SHALL CONNECT AND CONCEAL SEWER LINE IMPROVEMENTS AT THE END OF EACH WORKING DAY.
16. THE CONTRACTOR SHALL MAINTAIN SEWER SERVICE TO BUSINESSES AND RESIDENTS AT ALL TIMES EXCEPT WHEN A SHUTDOWN IS REQUIRED FOR INSTALLATION OF THE NEW SEWER LINE. SHUTDOWNS SHALL BE COORDINATED WITH THE CITY PUBLIC WORKS DEPARTMENT AT LEAST 2 FULL BUSINESS DAYS IN ADVANCE.
17. ALL EXISTING SEWER SERVICES ARE TO BE TRANSFERRED FROM THE EXISTING LINES EVEN IF NOT SHOWN OR ACCOUNTED FOR IN THE PROJECT PLANS AND SPECIFICATIONS.
18. UTILITY CONFLICTS ARE TO BE WORKED OUT IN THE FIELD WITH THE PROJECT ENGINEER AND CITY REPRESENTATIVE.
19. MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 12 INCHES AT ALL UTILITY CROSSINGS. CONTRACTOR SHALL COMPLY WITH WATER AND SEWER SEPARATION REQUIREMENTS PER CITY OF LOS BANOS STANDARDS AND DEPARTMENT OF WATER RESOURCES, DRINKING WATER PROGRAM REGULATIONS UNLESS OTHERWISE NOTED ON THESE PLANS.
20. CONTRACTOR SHALL RESTORE ANY AND ALL STRIPING, PAVEMENT MARKINGS, SIGNAGE, AND TRAFFIC SIGNAL LOOPS DAMAGED OR REMOVED DURING CONSTRUCTION TO CALTRANS STANDARDS AND TO THE SATISFACTION OF THE CALTRANS FIELD ENGINEER. COSTS ASSOCIATED WITH THE REPAIR OF DAMAGED TRAFFIC FACILITIES, SIGNALS, WIRING, AND/OR TRAFFIC LOOPS WILL BE BORN SOLELY BY THE CONTRACTOR AND NO ADDITIONAL COST WILL BE PASSED ALONG TO THE OWNER.
21. AT THE END OF EACH DAY OR AS DIRECTED BY THE OWNER, THE CONTRACTOR SHALL SWEEP ROADWAYS OF ALL DEBRIS AND EXCESS MATERIAL ATTRIBUTED TO THE CONTRACTOR'S OPERATIONS. UNLESS OTHERWISE APPROVED BY THE OWNER, MECHANICAL STREET SWEEPERS WITHOUT DEBRIS STORAGE COMPARTMENTS WILL NOT BE ALLOWED.
22. UNLESS OTHERWISE APPROVED BY THE OWNER, TARPS OR OTHER EFFECTIVE COVERS ARE REQUIRED ON ALL STOCKPILED MATERIAL AND ON ALL HAUL TRUCKS TO MINIMIZE DUST.

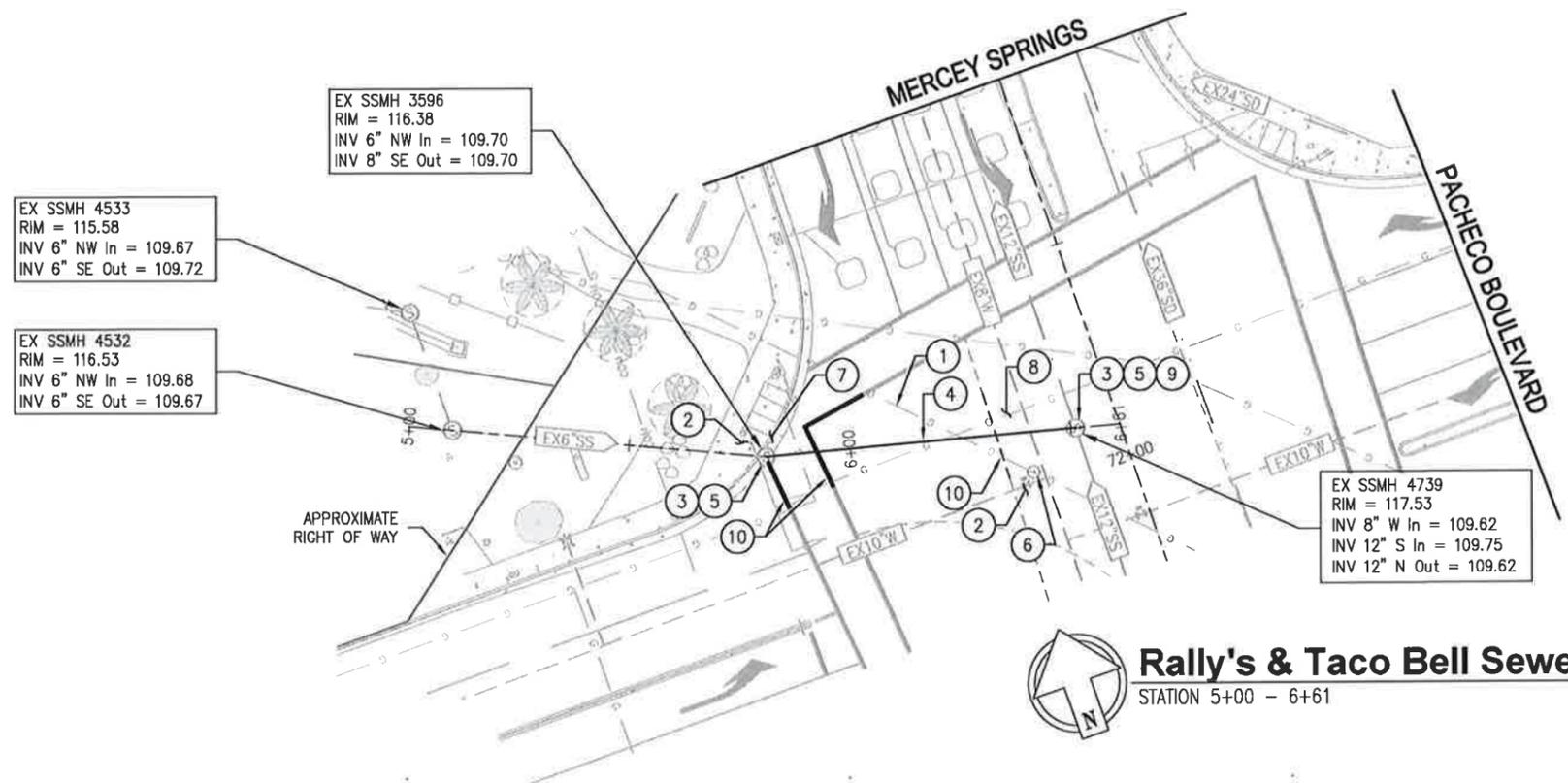


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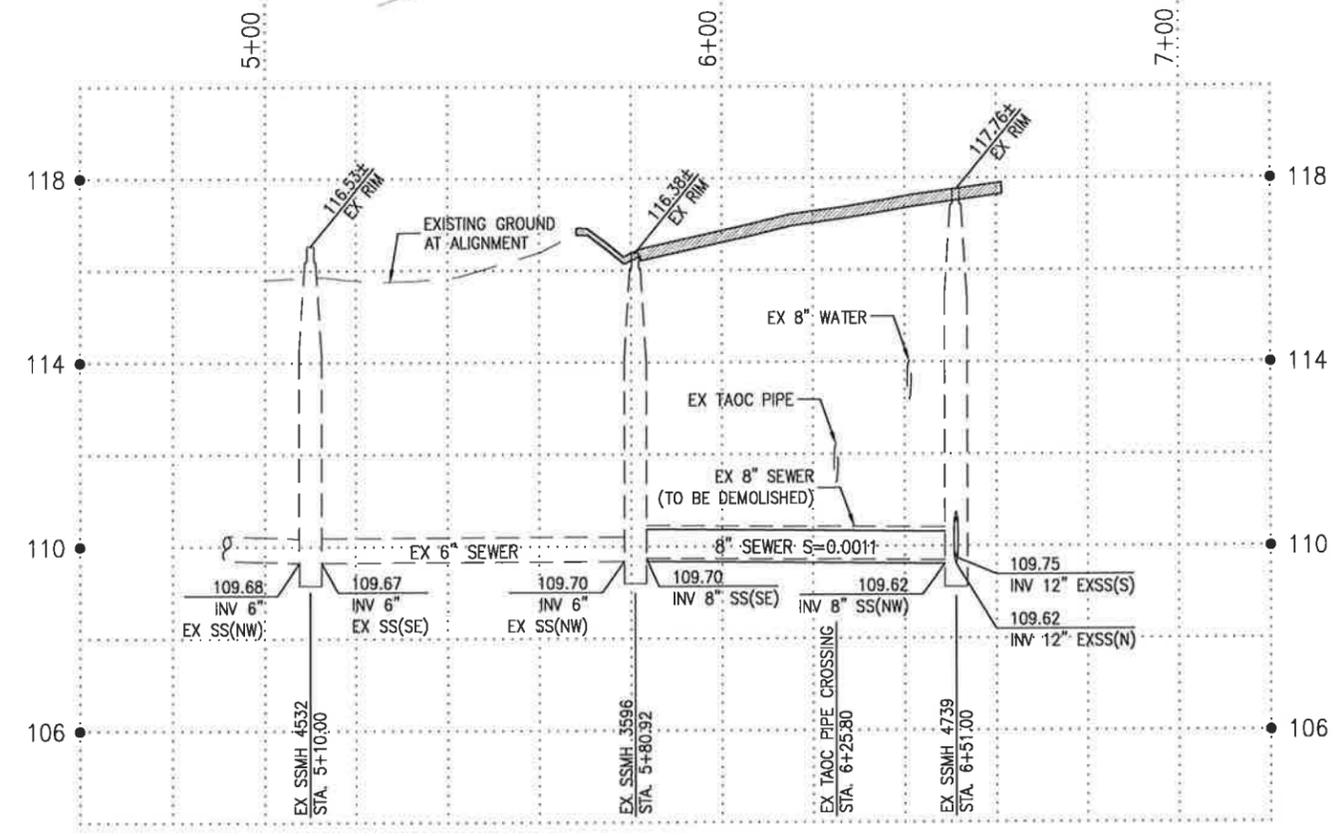
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**City of Los Banos**  
**Taco Bell/Rally's Sewer Line Repair**  
**ABBREVIATIONS AND PROJECT NOTES**

DESIGNED BY DGR	DATE 06/23/2017	DRAWING <b>C-102</b>
DRAWN BY DGR	DATE 06/28/2017	SHEET <b>2</b>
CHECKED BY M. GOUVEIA	DATE 06/28/2017	OF 7 SHEETS
APPROVED BY M. GOUVEIA	DATE 06/28/2017	PROJECT NUMBER 830.03

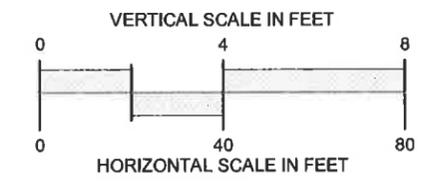


- ### CONSTRUCTION NOTES
- UNDERGROUND IMPROVEMENTS**
- APPROXIMATE LOCATION OF ABANDONED TAOC CRUDE OIL PIPE LINE. PIPE LINE TO REMAIN IN PLACE AND BE PROTECTED.
  - LOCATE AND PROTECT IN PLACE, EXISTING UTILITIES AND TRAFFIC SIGNAL FACILITIES.
  - EXISTING SEWER MANHOLE TO REMAIN IN PLACE AND BE PROTECTED.
  - REMOVE OR CRUSH IN PLACE THE EXISTING SEWER LINE AS REQUIRED FOR CONSTRUCTION. INSTALL NEW 8" SDR-35 SEWER LINE ALONG EXISTING ALIGNMENT.
  - CONNECT TO EXISTING MANHOLE.
- SURFACE IMPROVEMENTS**
- EXISTING MONUMENT WELL AND/OR MONUMENT SHALL REMAIN IN PLACE, UNDISTURBED AND BE PROTECTED. (REFER TO GENERAL NOTES 5 AND 6 ON SHEET 2)
  - CONCRETE IMPROVEMENTS TO REMAIN IN PLACE AND BE PROTECTED. ANY DAMAGED CONCRETE SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
  - REMOVE AND REPLACE EXISTING AC 12" BEYOND ALL TRENCH WALLS AT A DEPTH OF 5". TRENCH AREA EDGES ARE TO BE SAWCUT OR PROFILED.
  - MANHOLE TO BE ADJUSTED TO GRADE IF REQUIRED DUE TO TRENCH REPAIRS.
  - REMOVE AND REAPPLY PEDESTRIAN CROSSWALK AND STRIPING EFFECTED BY CONSTRUCTION ACTIVITIES, MATCH EXISTING COLOR.



### ESTIMATED QUANTITIES

INSTALL 8" SEWER LINE	70	LF
AC PAVEMENT REPAIR	400	SF
MANHOLE ADJUSTMENTS	1	EA
FURNISH AND APPLY MARKINGS	42	SF
FURNISH AND APPLY STRIPING	20	LF



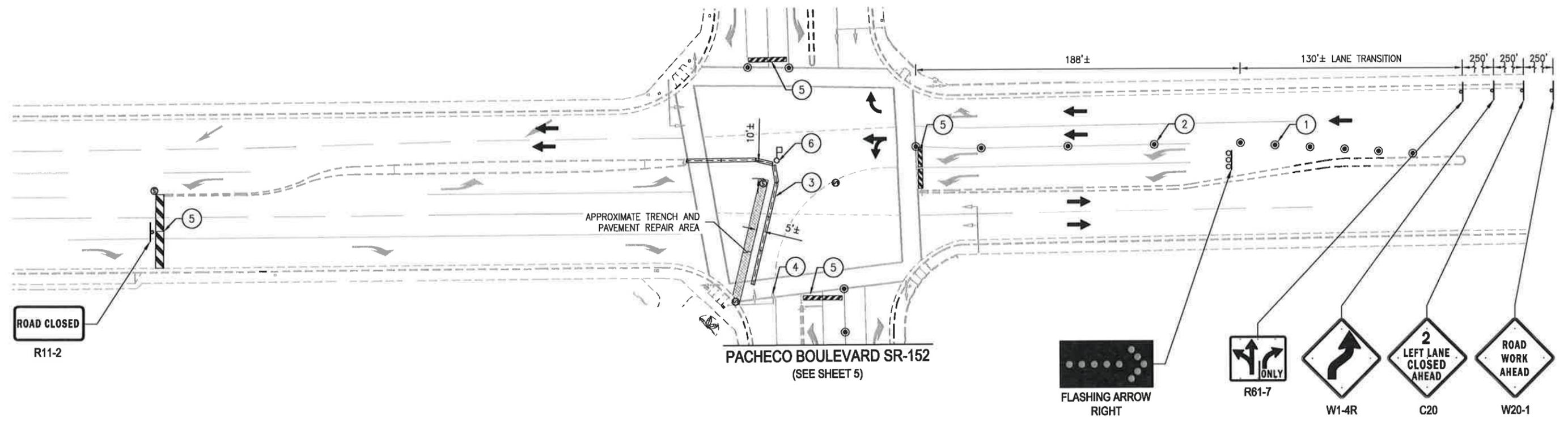
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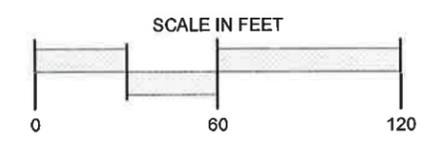
**City of Los Banos**  
**Taco Bell/Rally's Sewer Line Repair**  
**PLAN AND PROFILE**  
**STA. 5+00 TO 6+61**

DESIGNED BY DGR	DATE 06/23/2017	DRAWING C-103
DRAWN BY DGR	DATE 06/28/2017	SHEET 3
CHECKED BY M. GOUVEIA	DATE 06/28/2017	OF 7 SHEETS
APPROVED BY M. GOUVEIA	DATE 06/28/2017	PROJECT NUMBER 830.03

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**MERCEY SPRINGS SR-165**  
 INTERSECTION TRAFFIC CONTROL



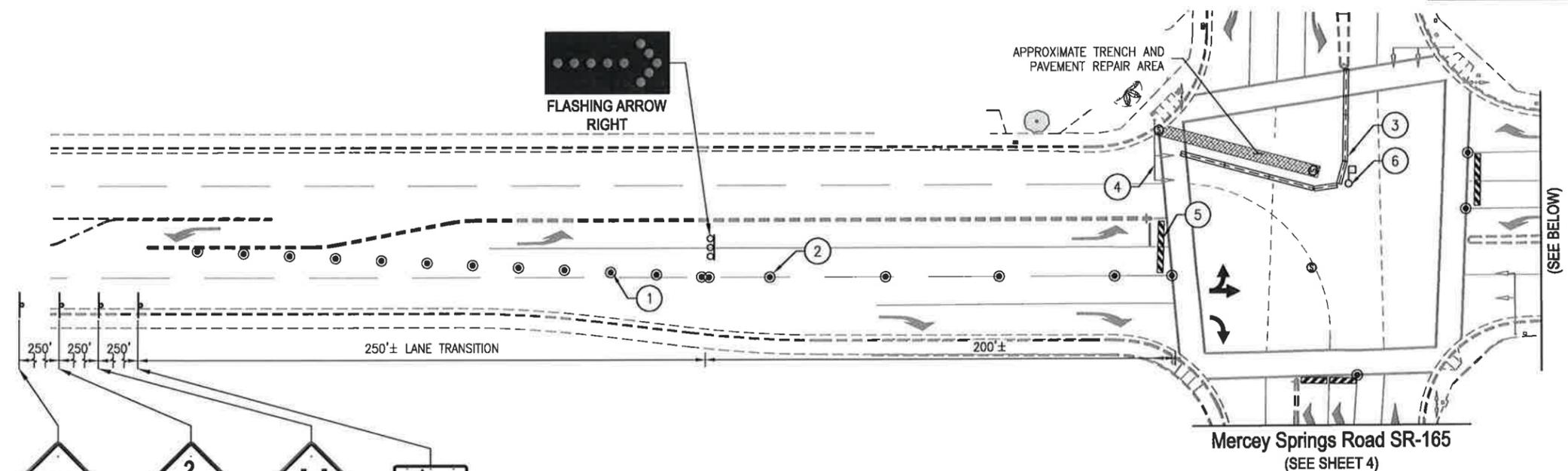
CONSTRUCTION NOTES	REFERENCE DETAIL
① CONES/DELINEATORS WITH 20'-0" SPACING (TYP).	⑤ 7
② CONES/DELINEATORS WITH 50'-0" SPACING (TYP).	
③ PLACE TYPE K-RAILING IN MANAGEABLE LENGTHS ALONG THE WORK AREA.	
④ SET ALL TRAFFIC SIGNALS FOR THE INTERSECTION TO FLASHING RED MODE. COORDINATE WITH CALTRANS.	
⑤ INSTALL TYPE III BARRICADES WITH FLASHERS.	③ 7
⑥ FLAGGER TO ASSIST WITH DIRECTING TRAFFIC.	



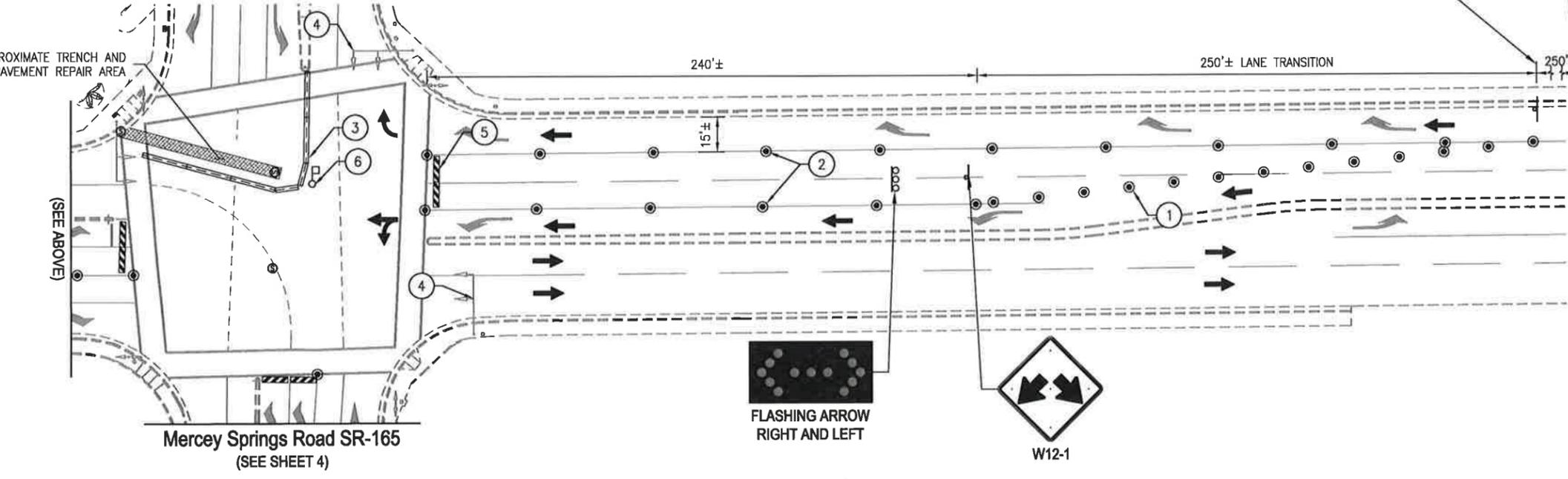
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City of Los Banos		
<b>Taco Bell/Rally's Sewer Line Repair</b>		
<b>TRAFFIC MANAGEMENT PLAN</b>		
<b>FOR SR-165 AT SR-152 INTERSECTION</b>		
DESIGNED BY DGR	DATE 06/23/2017	DRAWING <b>C-104</b>
DRAWN BY DGR	DATE 06/28/2017	SHEET <b>4</b>
CHECKED BY M. GOUVEIA	DATE 06/28/2017	OF 7 SHEETS
APPROVED BY M. GOUVEIA	DATE 06/28/2017	PROJECT NUMBER 830.03



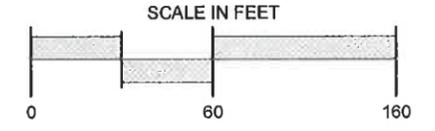
**PACHECO BOULEVARD SR-152**  
INTERSECTION TRAFFIC CONTROL



(SEE ABOVE)

(SEE BELOW)

CONSTRUCTION NOTES		REFERENCE DETAIL
1	CONES/DELINEATORS WITH 20'-0" SPACING (TYP).	5/7
2	CONES/DELINEATORS WITH 50'-0" SPACING (TYP).	5/7
3	PLACE TYPE K-RAILING IN MANAGEABLE LENGTHS ALONG THE WORK AREA.	
4	SET ALL TRAFFIC SIGNALS FOR THE INTERSECTION TO FLASHING RED MODE. COORDINATE WITH CALTRANS.	
5	INSTALL TYPE III BARRICADES WITH FLASHERS.	3/7
6	FLAGGER TO ASSIST WITH DIRECTING TRAFFIC.	



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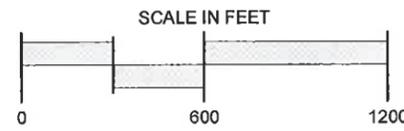
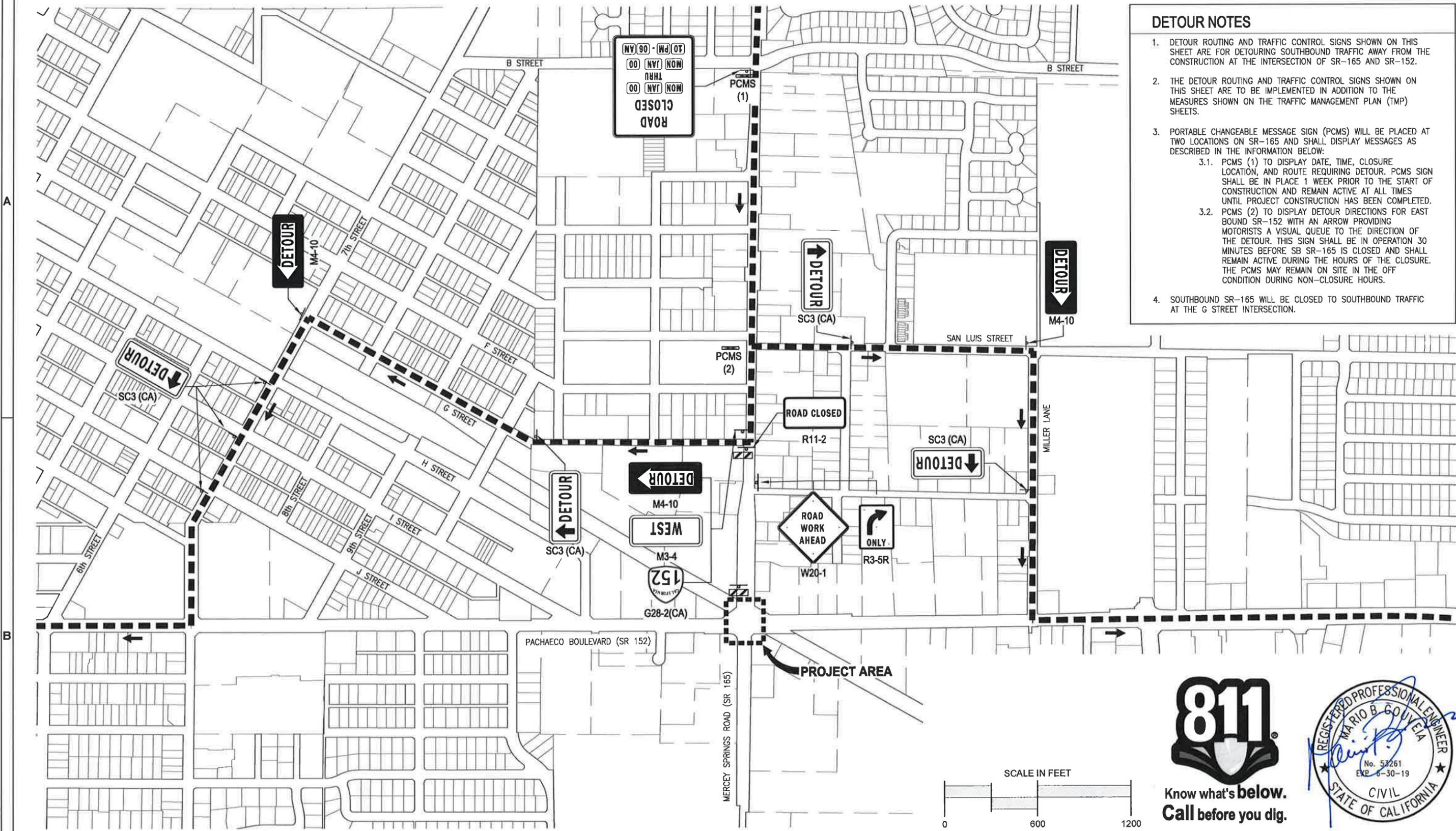
**City of Los Banos**  
**Taco Bell/Rally's Sewer Line Repair**  
**TRAFFIC MANAGEMENT PLAN FOR SR-152**  
**AT SR-165 INTERSECTION**

DESIGNED BY DGR	DATE 06/23/2017	DRAWING <b>C-105</b>
DRAWN BY DGR	DATE 06/28/2017	SHEET <b>5</b>
CHECKED BY M. GOUVEIA	DATE 06/28/2017	OF 7 SHEETS
APPROVED BY M. GOUVEIA	DATE 06/28/2017	PROJECT NUMBER 830.03

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**DETOUR NOTES**

- DETOUR ROUTING AND TRAFFIC CONTROL SIGNS SHOWN ON THIS SHEET ARE FOR DETOURING SOUTHBOUND TRAFFIC AWAY FROM THE CONSTRUCTION AT THE INTERSECTION OF SR-165 AND SR-152.
- THE DETOUR ROUTING AND TRAFFIC CONTROL SIGNS SHOWN ON THIS SHEET ARE TO BE IMPLEMENTED IN ADDITION TO THE MEASURES SHOWN ON THE TRAFFIC MANAGEMENT PLAN (TMP) SHEETS.
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) WILL BE PLACED AT TWO LOCATIONS ON SR-165 AND SHALL DISPLAY MESSAGES AS DESCRIBED IN THE INFORMATION BELOW:
  - PCMS (1) TO DISPLAY DATE, TIME, CLOSURE LOCATION, AND ROUTE REQUIRING DETOUR. PCMS SIGN SHALL BE IN PLACE 1 WEEK PRIOR TO THE START OF CONSTRUCTION AND REMAIN ACTIVE AT ALL TIMES UNTIL PROJECT CONSTRUCTION HAS BEEN COMPLETED.
  - PCMS (2) TO DISPLAY DETOUR DIRECTIONS FOR EAST BOUND SR-152 WITH AN ARROW PROVIDING MOTORISTS A VISUAL QUEUE TO THE DIRECTION OF THE DETOUR. THIS SIGN SHALL BE IN OPERATION 30 MINUTES BEFORE SB SR-165 IS CLOSED AND SHALL REMAIN ACTIVE DURING THE HOURS OF THE CLOSURE. THE PCMS MAY REMAIN ON SITE IN THE OFF CONDITION DURING NON-CLOSURE HOURS.
- SOUTHBOUND SR-165 WILL BE CLOSED TO SOUTHBOUND TRAFFIC AT THE G STREET INTERSECTION.



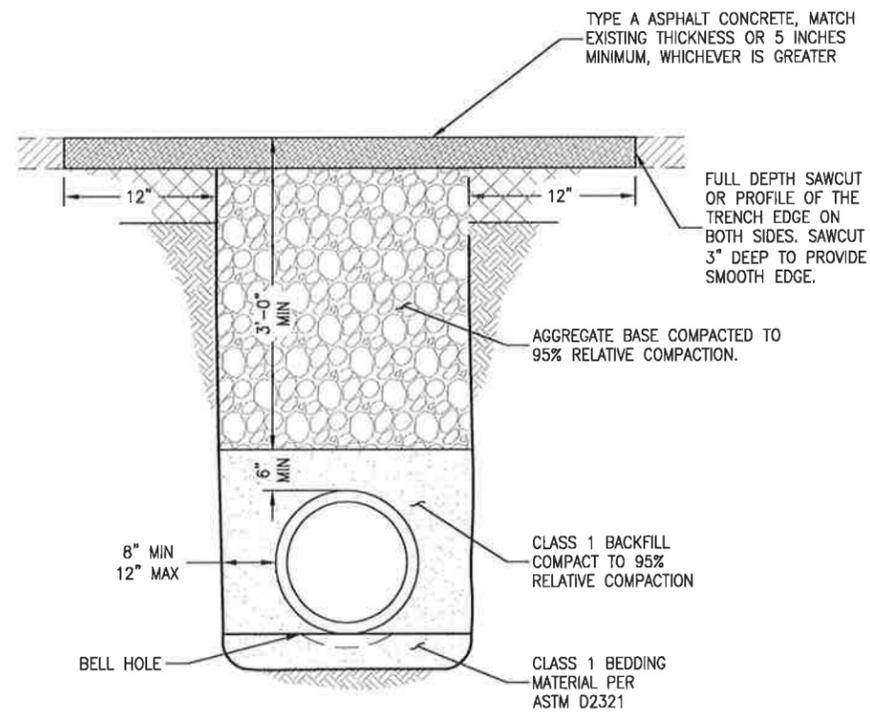
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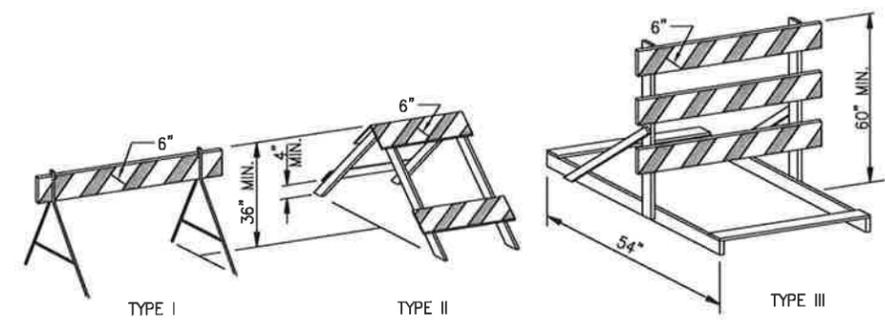
**City of Los Banos**  
**Taco Bell/Rally's Sewer Line Repair**  
**DETOUR PLAN FOR SB SR-165 TRAFFIC**  
**CONTINUING EB AND WB ON SR-152**

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DRAWN BY DGR	DATE 06/28/2017	SHEET 6
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1 TRENCH BACKFILL  
NOT TO SCALE



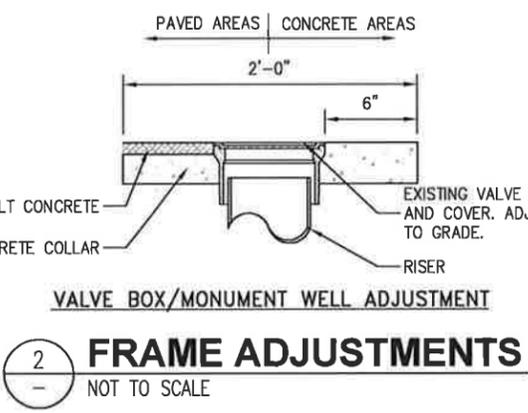
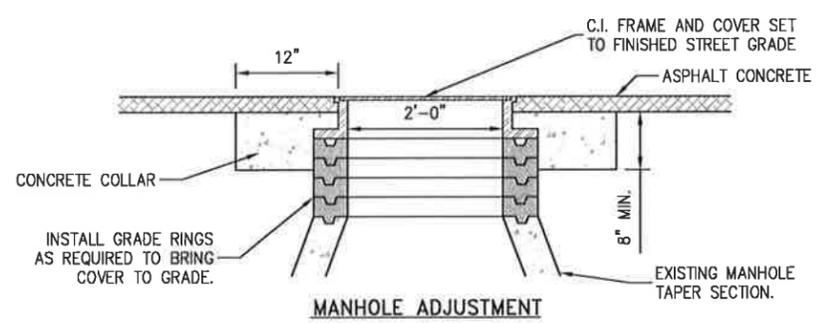
BARRICADE AND PORTABLE FLASHER SUPPORT CHARACTERISTICS

TYPE	1	2	3	PORTABLE FLASHER SUPPORT
WIDTH OF RAIL	8" - 12"	8" - 12"	8" - 12"	TOP - 8" - 12" BOTTOM - 4" MIN.
LENGTH OF RAIL	2' MIN.	32" - 4'	3' MIN.	31" MAX.
WIDTH OF STRIPE	6"	6"	6"	4" OR 6"
HEIGHT	3' MIN.	3' MIN.	5' MIN.	30" MIN.
NUMBER OF REFLECTORIZED RAIL FACES	2	4	3 IF FACING TRAFFIC IN ONE DIRECTION. 6 IF FACING TRAFFIC IN TWO DIRECTIONS.	2 IF TOP RAIL IS 12" WIDE. 4 IF TOP RAIL IS LESS THAN 12" WIDE.

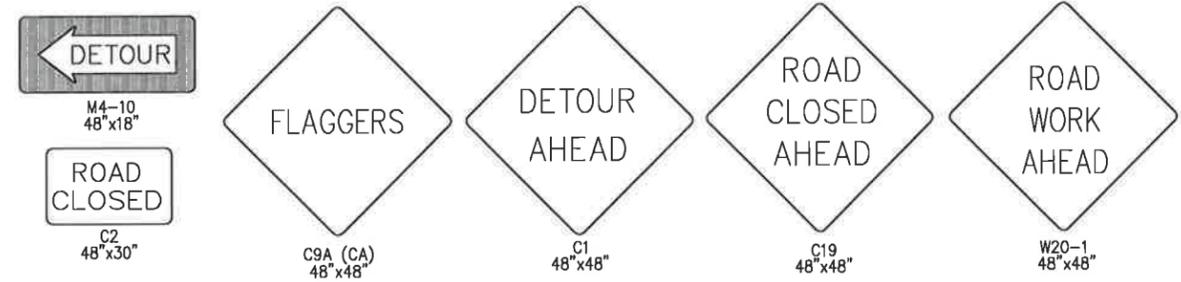
3 PORTABLE BARRICADES  
NOT TO SCALE

- NOTES**
- TRENCHING, PIPE BEDDING, AND BACKFILL
- TRENCH WALL SHOWN VERTICAL FOR CLARITY, EXCAVATE PER OSHA SAFETY REQUIREMENTS.
  - SAND SHALL CONFORM TO THE FOLLOWING GRADING REQUIREMENTS

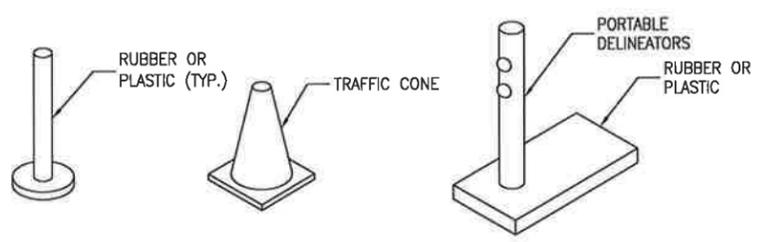
SIEVE SIZE	PERCENTAGE PASSING
#4	100
#16	0-70
#30	0-15
#200	0-5
  - IF THE BOTTOM OF THE TRENCH IS SOFT OR UNSTABLE, IT SHALL BE OVER EXCAVATED A MINIMUM OF 1 FOOT BELOW GRADE AND BACKFILLED WITH APPROVED IMPORTED MATERIAL.
  - RELATIVE COMPACTION IS EXPRESSED AS A PERCENTAGE OF MAXIMUM DENSITY PER CALTRANS IN ACCORDANCE WITH CALTRANS 231,216 WET METHOD.
  - FOR PIPE BEDDING AND BACKFILL PURPOSES, AWWA C900 PIPE SHALL BE CONSIDERED RIGID WALLED.
  - TRENCHES NOT IN PAVED AREA SHALL BE RESTORED TO MATCH EXISTING SURFACE CONDITIONS.
  - EXISTING ROADWAY PAVEMENT SECTIONS HAVE NOT BEEN INVESTIGATED ALONG THE PIPE LINE ALIGNMENT(S).
- TRAFFIC CONTROL DEVICES
- PLACEMENT OF BARRICADES SHALL NOT PRECLUDE ENTRANCE OF EMERGENCY VEHICLES.
  - ADDITIONAL DETOUR SIGNS MAY BE REQUIRED BY THE CITY ENGINEER.
  - REFLECTORS AS REQUIRED BY THE CITY ENGINEER OR PUBLIC WORKS DIRECTOR.



2 FRAME ADJUSTMENTS  
NOT TO SCALE



4 TYPICAL CONSTRUCTION SIGNS  
NOT TO SCALE



5 TRAFFIC DELINEATORS  
NOT TO SCALE



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**City of Los Banos**  
**Taco Bell/Rally's Sewer Line Repair**  
**TRENCH BACKFILL, FRAME ADJUSTMENT, AND TRAFFIC CONTROL DETAILS**

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