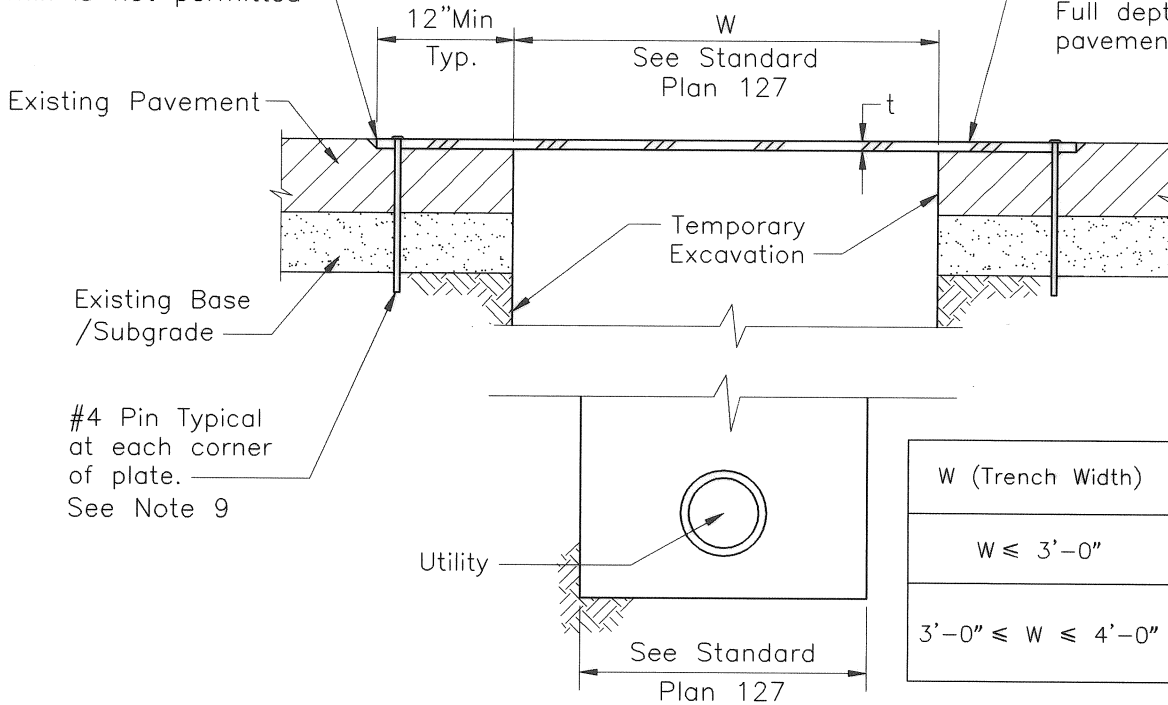


Temporary paving or Cold asphalt mix all around edges of plate and road surface. Use wedges to prevent rattling and rocking. Reuse of Cold asphalt mix is not permitted

Steel plate with non-skid surface treatment recessed flush on top of milled surface asphalt. Full depth cutting of the pavement is not allowed.



W (Trench Width)	t (Minimum Steel Plate Thickness)
$W \leq 3'-0"$	1 inch
$3'-0" \leq W \leq 4'-0"$	1-1/4 inch

NOTES:

1. Refer to Standard Plan 127 for trench requirements and pavement restoration.
2. Ensure that all excavations are adequately protected with type-K barrier and 6 ft high minimum chain link fence or covered with steel plates or as directed by the City Engineer.
3. Place traffic control devices, warning and road signs per traffic control plan as approved by the City Traffic Engineer advising motorists in advance of any steel plate bridging.
4. Before steel plate installation, adequately shore or brace trenches and excavations to withstand highway traffic loads. Comply with OSHA requirements.
5. Steel plates shall be able to withstand HS20-44 traffic loading without movement and with minimum noise. The plate surface shall not deviate more than 1/4 inch when measured with a 10-foot straight edge along the length of the plate.
6. Steel plates shall meet ASTM A36 steel requirements.
7. Steel plates shall have non-skid surface with a minimum coefficient of friction equivalent to 0.35 as determined by California Test Method 342 or approved equal.
8. When two or more plates are used, tack weld at each corner to reduce or eliminate vertical movement, or as required by the City Engineer.
9. Securely anchor the plates to pavement to prevent movement. Anchor plates in each corner with pins made of #4 rebar or railroad spike, or equivalent diameter steel rod, with a length of minimum 6" or maximum 12".
10. Recess steel plates on major streets. Recess steel plates on residential streets only if specifically directed by the City Engineer.
11. For trenches and excavations with spans greater than 4 feet, submit an engineered steel plating design to the City for review and approval. A registered Civil Engineer shall design the engineered steel plating.
12. Properly mark all plates with the utility and contractor name, after-hours contact phone number in the event the plates need to be secured.

R:\Standard Plans\CIBSTD_2017\CLB-STD_PLAN-2017_MULTI-LAYOUT

4		CITY OF LONG BEACH, DEPARTMENT OF PUBLIC WORKS 2017 STANDARD PLANS STEEL PLATE REQUIREMENTS FOR OPEN TRENCH	STANDARD PLAN NO. 129
3			
2			
1			
NO.	DATE	APPROVED BY: 	DATE: 11/13/17
REVISIONS		CITY ENGINEER R.E. No. 65081	SHEET 1 OF 2

NOTES: Continued

13. Perform and document daily inspections of all steel plates and locations; take appropriate measures to protect the public safety until work is completed, where necessary; and maintain the steel plates, shoring and temporary paving/wedges. This documentation shall be available to the City inspector upon request.
14. Immediately respond to all excavation restoration request by the City upon notification. Non-responses will result in the required restoration work being done by the City, with all the expenses to be paid by the permittee.
15. There shall be a penalty for each day or part of the day that plates remain over the excavation beyond the approved length of time.

SAVED PATH: R:\Standard Plans\CLBSTD_2017\CLB-STD PLAN-2017 MULTI-LAYOUT

4		CITY OF LONG BEACH, DEPARTMENT OF PUBLIC WORKS 2017 STANDARD PLANS	STANDARD PLAN NO.
3			
2			
1			
NO.	DATE	STEEL PLATE REQUIREMENTS FOR OPEN TRENCH	129
REVISIONS		APPROVED BY:  DATE: 11/13/17	SHEET 2 OF 2
		CITY ENGINEER R.E. No. 65081	