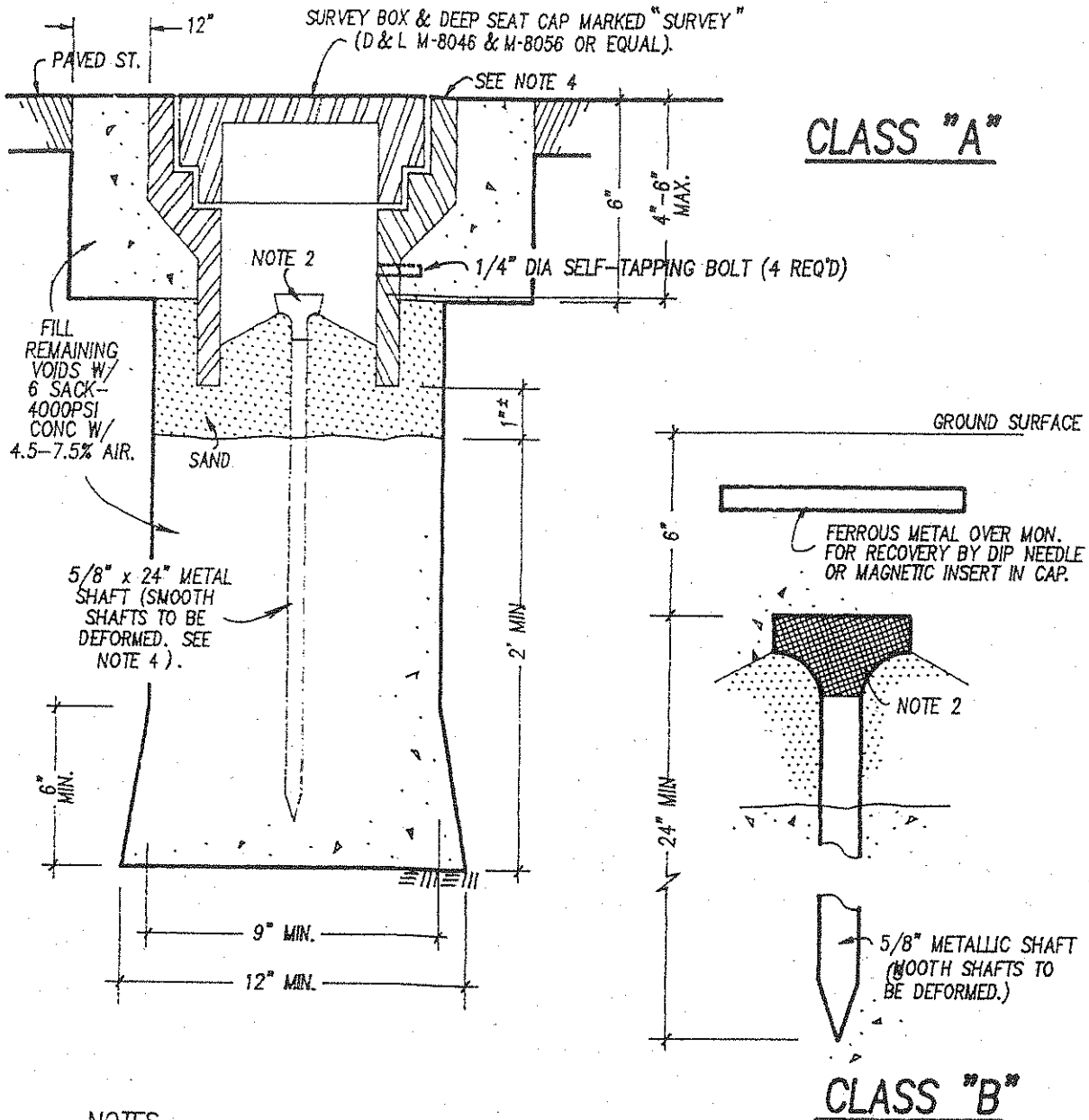


CITY OF WINNEMUCCA
PUBLIC WORKS MANUAL

SECTION "A"
STREET SYSTEM IMPROVEMENTS



NOTES

1. BRONZE SURVEY MARKER (SERVCO #286 OR EQUAL) MAY BE SUBSTITUTED FOR THE 5/8" SHAFT & CAP - NOT PERMITTED IN CITY OF RENO.
2. 1 1/2" MIN NONFERROUS CAP W/PLS #PERMANENTLY ATTACHED PRIOR TO PLACEMENT.
3. IN CARSON CITY, SUPPORT BOX ON (2) 2x4 REDWOOD BLOCKS & PROVIDE 1" SAND BED.
4. IN WASHOE COUNTY, INSTALL IN ACCORDANCE WITH DWG. W-18.
5. PRE-PUNCHED CAPS SHALL NOT BE PERMITTED.

NO.			REVISION			DATE			STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION			SECTIONS	
1			REDRAW			1/93vp			MONUMENTS			1	
2			NOTES			1/95vp						DRAWING NO. 1-27 (332)	
									DATE 1/93 vp		PAGE 38		

Commercial 200 w, 6' arm

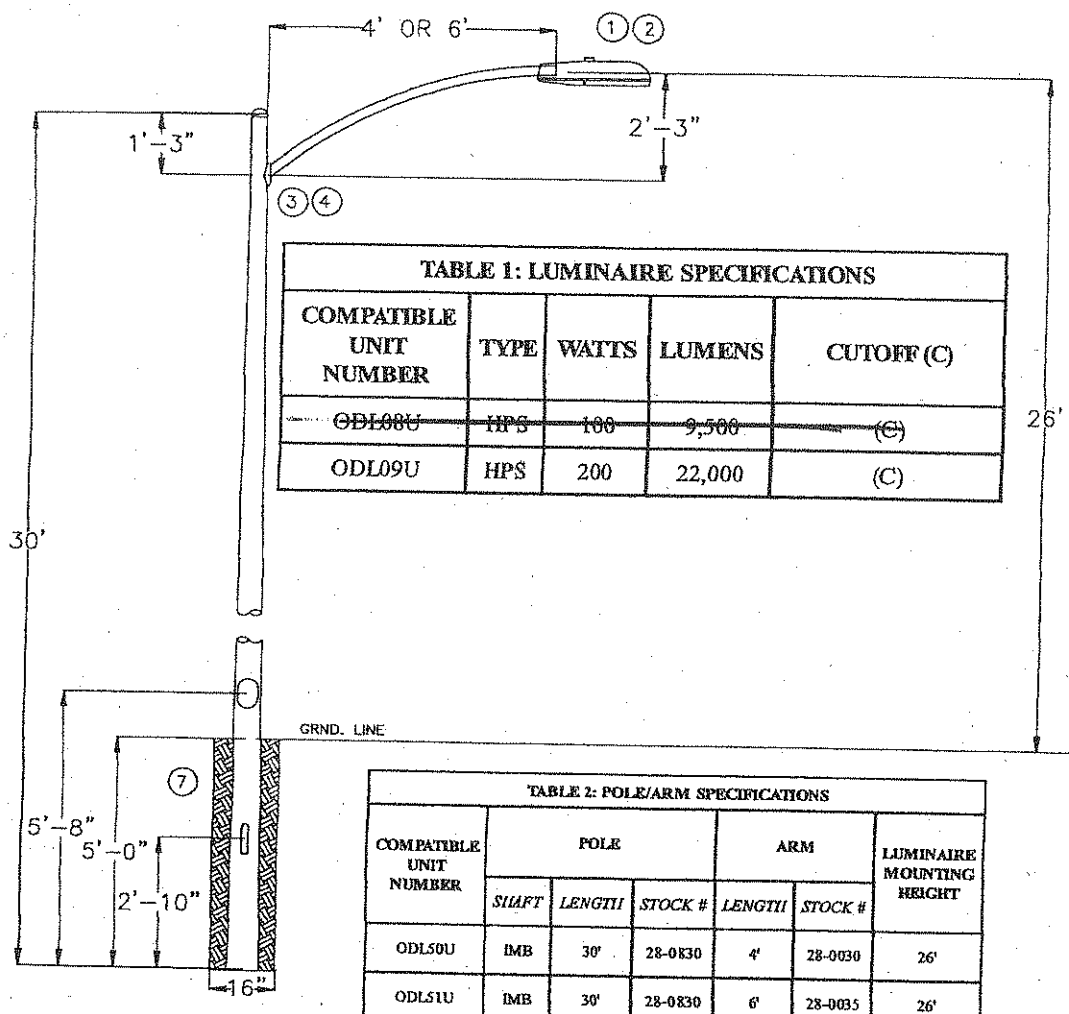


TABLE 1: LUMINAIRE SPECIFICATIONS

COMPATIBLE UNIT NUMBER	TYPE	WATTS	LUMENS	CUTOFF (C)
ODL08U	HPS	100	9,500	(C)
ODL09U	HPS	200	22,000	(C)

TABLE 2: POLE/ARM SPECIFICATIONS

COMPATIBLE UNIT NUMBER	POLE			ARM		LUMINAIRE MOUNTING HEIGHT
	SLAFT	LENGTH	STOCK #	LENGTH	STOCK #	
ODL50U	IMB	30'	28-0830	4'	28-0030	26'
ODL51U	IMB	30'	28-0830	6'	28-0035	26'

MATERIAL LIST

ITEM #	STRUCTURE NUMBERS		DESCRIPTION	NUMBER
	SLM70U 30' POLE 4' ARM 100W HPS	SLM71U 30' POLE 6' ARM 200W HPS		
	Labor Refer: .500	Labor Refer: .500		
	QUANTITY	QUANTITY		
1		N/A	COMPATIBLE UNIT, SEE TABLE 1 FOR SUBSTITUTES	ODL08U
2	N/A	1	COMPATIBLE UNIT, SEE TABLE 1 FOR SUBSTITUTES	ODL09U
3**		N/A	COMPATIBLE UNIT, SEE TABLE 2 FOR SPECIFICATIONS	ODL50U
4**	N/A	1	COMPATIBLE UNIT, SEE TABLE 2 FOR SPECIFICATIONS	ODL51U
5*	FD	FD	N-9 SECONDARY BOX W/ 4-WAY TERMINATION	SRT02U
6		1	TUBE: STREET LIGHT INSTALLATION, 16" DIA X 5' LQ, FIBER	24-1006
7*	FD	FD	PIPE, STD: 3/4" CTS, 100' LQ, PLAIN ENDS, 200 LB, POLYETHYLENE 340	51-0060

* Items To Be Field Determined (FD) As Required And Added As Additional Stock Items.
 ** For Twin Luminaires, Add Additional Stock Items As Required Or Contact Regional Standards For Ordering Dual Arm Poles.

					STRUCTURE STANDARD STREET LIGHT MULTIPLE U/G FED ON 30 FT. IMBD. POLE W/ 4 FT. OR 6 FT. ARMS		SHEET 1 OF 1 VOLUME 1	
DRAWN	DESIGN	SUPR	DATE	REV	DRAWING NUMBER			
JK	JK	SJ	08/03	02	SLM70U SLM71U			

9.6 Embedded Pole and Sonotube Reference Guide

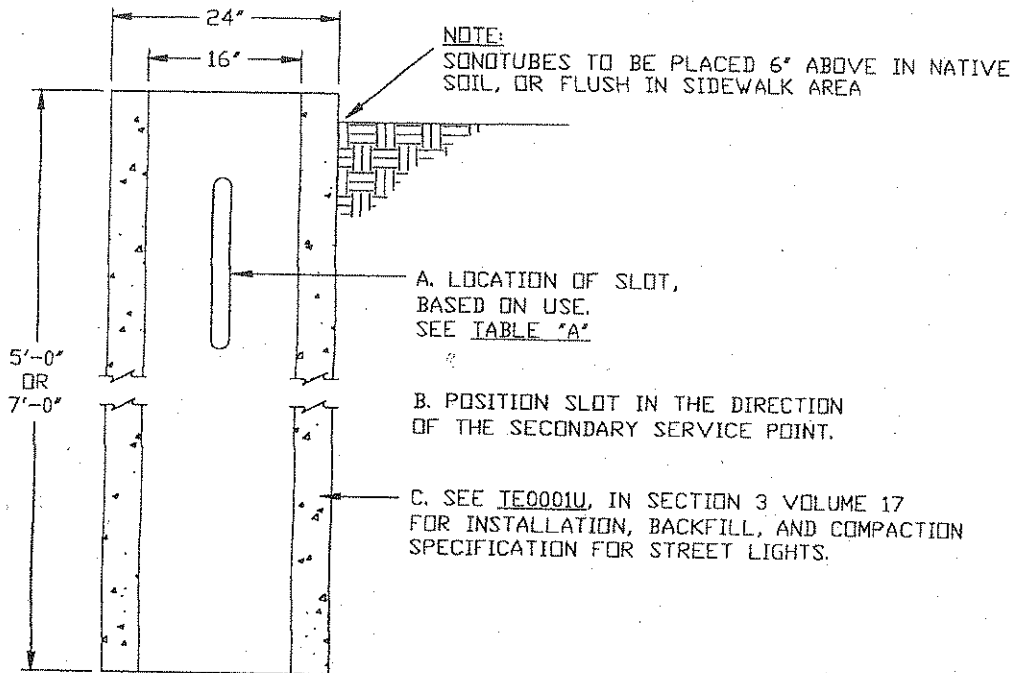


TABLE "A" - Sono Tube Reference Guide

SONO-TUBE DEPTH	SLOT LOCATION FROM TOP OF TUBE	SLM70U POLE 28-0830	SLM71U POLE 28-0830	SLM73U POLE 28-0840	SLM75U POLE 28-0840	SLM81U POLE 28-0830	SLM82U POLE 28-0740	SLM83U POLE 28-0740	ODL81U & 83U POLE 28-1106	ODL87U & 89U POLE 28-1108	ODL95U POLE 28-0745	ODL99U POLE 28-0750
5 FT	3'-0"	X	X			X						
5 FT	1'-6"						X	X			X	X
7 FT	3'-0"			X	X							
7 FT	1'-6"											
43"	N/A								N/A	N/A		

Sierra Pacific
POWER COMPANY

ENGINEERING & CONSTRUCTION STANDARD

SHEET 29 OF 50

**TRENCH AND
EXCAVATION
STANDARDS**

VOLUME 17

DRAWN	DESIGN	SUPR	DATE	REV
JK	IVV	SJ	5/04	03

DRAWING NUMBER
TE0001U

9.2 Dewatering

Where ground water is encountered during excavation, it shall be the responsibility of the contractor or customer to adequately dewater the excavation to provide for safe and convenient installation of the streetlight substructure, sonotube, or precast base. See Section 6.0.

9.3 Installation


Precast streetlight bases shall be installed using equipment with adequate load capacity to safely handle the components. All bases shall be set 3" - 6" above proposed finish grade with bolt pattern aligned for proper arm direction as shown on work order drawings, typically 90° off curb line.

9.4 Bedding and Backfill

Streetlights, sonotubes and precast bases shall be bedded with Type II subbase for the full depth of component at 90% compaction surrounding the component at a 2' radius in accordance with SPPC Specification SUB01X.

9.5 Embedded Pole and Bolted Base Installation Depth Guide

INSTALLATION DEPTH TABLE FOR STREET LIGHT POLES									
DESCRIPTION	<i>Embedded 30' Steel</i>	<i>Embedded 42' Steel</i>	<i>30' Bolted Base</i>	<i>** Embedded Decorative</i>	<i>** Embedded Decorative</i>	<i>*** Monterey Bolted Base</i>	<i>Embedded 20' Round Concrete</i>	<i>Embedded 21' 3" Square Concrete</i>	<i>Embedded 34' 9" Round Concrete</i>
STOCK #	28-0830	28-0840	28-0800	28-1106	28-1108	28-0785	28-0745	28-0750	28-0740
INSTALLED DEPTH	5'	7'	6'	3'	3'	Custom By Developer	3' 7"	4' 3"	5' 3"
* See SLE 02U Section 6 Volume 17 for Base Detail ** See TE0001U Section 3 Volume 17 Page 29 for Decorative Embedded Detail *** Custom field formed by Monterey Developer									

					ENGINEERING & CONSTRUCTION STANDARD			SHEET 28 OF 50	
					TRENCH AND EXCAVATION STANDARDS			VOLUME 17	
DRAWN JK	DESIGN JVJ	SUPR SJ	DATE 5/04	REV 03				DRAWING NUMBER TE0001U	

PERMIT #: _____

DATE: _____

STREET EXCAVATION PERMIT CITY OF WINNEMUCCA

LOCATION: _____

NEAREST CROSS STREET: _____

OWNER: _____

CONTRACTOR: _____

BILLING ADDRESS: _____

Permission is hereby granted to excavate, install, or repair a _____
on _____ Street of approximately _____ square feet

Temporary patch to be made by: _____ Contractor _____ City

Permanent patch to be made by: _____ Contractor _____ City

Saw Cut _____ Hrs. @ _____ /hour = _____

Patch area _____ SF @ _____ /SF = _____

Issuance Fee (If required inspection(s) are more than one hour) = \$ 25.00

TOTAL CHARGES \$ _____

Special Conditions: _____

This permit and conditions thereof, is to be strictly complied with and no work other than that specific mentioned above is hereby authorized. Open trenches shall be protected in accordance with the Manual Uniform Traffic Devices.

Contact Director of Public Works for necessary inspections 623-6381.

I have read the General Provisions for an Excavation permit and agree to abide by the requirements therei

Permitee: _____

City of Winnemucca
Public Works Department
By: _____

Paid: \$ _____

Receipt #: _____

Date: _____

EXCAVATION PERMIT GENERAL PROVISIONS

1. General:

An Excavation Permit shall be secured from the Public Works Department before any person, partnership, corporation, association or contractor makes an excavation in any public street or alley within the corporate limits of the City of Winnemucca. Permits must be secured at least twenty-four (24) hours prior to beginning the excavation. If an emergency arises necessitating an immediate excavation during the hours that the Public Works Department is not open for business, the person making the excavation shall notify the Police and Fire Departments and must secure the permit on the next succeeding business day. Every permit issued shall expire and become null and void if the excavation is not commenced within thirty (30) days from the date of such permit.

2. Acceptance of provisions:

It is understood and agreed by the permittee that performing any work under this permit shall constitute an acceptance of the provisions.

Notice prior to starting work:

Before starting work on which an inspector is required, or whenever stated on the face of this permit, the permittee shall notify the City Engineer's Office. Such notice shall be given at least one (1) day in advance of the date work is to begin, unless an emergency situation makes it impossible.

4. Keep permit on the work:

This permit shall be kept at the site of the work and must be shown to any representative of the City Street Department or any law enforcement officer on demand.

5. Protection of traffic:

Adequate provision shall be made for the protection of the traveling public in accordance with the Manual of Uniform Traffic Control Devices. Street openings will not be permitted to remain open overnight unless previously approved by the City Engineer or an emergency situation requires it. The permittee will notify the Police Department and Fire Chief of the trench location if it is to remain open overnight.

6. Minimum interference with traffic:

All work shall be planned and carried out so there will be the least possible inconvenience to the traveling public except for the specific work permitted. If trenching or the use of equipment will restrict traffic movement, the Police Department (623-6396) and the Fire Department (623-6329) shall be notified.

7. Clean up right-of-way:

Upon completion of the work, all brush, timber, scraps and material shall be entirely removed and the right-of-way left in as presentable condition as before work started.

8. Supervision of grantor:

All excavation, backfill and street repair work shall be done subject to the supervision of and to the satisfaction of the grantor.

9. Liability for damages:

The permittee is responsible for all liability for personal injury or property damage which may arise out of work herein permitted, or which may arise out of failure on the permittee's part to perform his obligations under this permit. In the event any claim of such liability is made against the City of Winnemucca, or any department, officer, or employee thereof, permittee shall defend, indemnify and hold them and each of them harmless from such claim.

10. Making repairs:

The permittee shall indicate on the original permit form if he elects not to have the City perform the temporary patch work. The permittee shall notify the City Engineer of the schedule to be followed on the patch work so that it can be inspected. If the permittee fails to make the asphalt patch immediately following the backfill work, the grantor shall have the right to install the patch and bill the permittee in accordance with the established fee schedule.

In every case, the grantee shall be responsible for restoring any portion of the street which has been excavated or otherwise disturbed to its former condition as nearly as possible.

11. Care of drainage:

If the work herein contemplated shall interfere with the established drainage, ample provision shall be made by the permittee to provide for it as may be directed by the grantor.

12. Maintenance:

The grantee agrees by the acceptance of this permit to exercise reasonable care to maintain properly any encroachment placed by it in the street and to exercise reasonable care in inspecting for and immediately repairing and making good any injury to any portion of the street which occurs as a result of the maintenance of the encroachment in the street or as a result of the work done under this permit, including any and all injury to the street which would not have occurred had such work not been done or such encroachment not placed therein.

The permittee shall be responsible for any problems occurring on the work performed by him under this permit for a period of two (2) years and shall make any needed repairs immediately upon notification.

13. Backfilling:

All backfilling shall be in accordance with the Standard Specifications approved by the grantor and be brought up to a level desired by the City Engineer when the patch is to be done by the City.

14. Preserve surfacing material (gravel surface):

Whenever a gravel or crushed rock surface is trenched, such material shall be placed at one side and when backfilling is started the rock material shall be replaced to its original position.

15. Asphalt paving surface:

Prior to excavation, the asphalt paving shall be neatly saw-cut on both sides of the trench as shown on the Street Patching Detail. If the permittee desires that the City perform the saw-cut, they shall outline the limits of the cut and will be assessed a fee in addition to the patching fee in accordance with the established fee schedule. The saw-cut requirement can be waived when a trenching wheel machine is used, if approved by the City Engineer.

16. Concrete work:

All concrete work damaged or removed shall be replaced by the permittee to the City's specifications without cost to the City. Prior to pouring any concrete, the forms shall be checked by the City Engineer for compliance with City regulations. The permittee is responsible for replacing all concrete removed or damaged during excavation within fourteen (14) days after completion of the job.

17. Failure to gain permit:

Any person who fails to obtain an Excavation Permit is in violation of Section 25.040 of the City of Winnemucca Municipal Code which is a misdemeanor punishable by a fine

18. Pavement patching fees:

The patching fee shall be assessed on the area of the street opening (saw-cut to saw-cut) as shown on the Pavement Patching Detail. The temporary patch is to stay in place until such time as the City Engineer determines that a maintenance problem exists. The temporary patch will be removed and the permanent patch will be constructed at such time that the City Engineer determines it to be necessary.

The fees shall be set by the City Engineer and approved by the City Council.

The permittee shall estimate the area to be patched on the permit form. When work has been completed, the Street Department will make accurate measurements of the patch area and bill the permittee at the months end.

STREET EXCAVATION PERMIT FEES

Excavation: (concrete, sidewalks, curbs, gutters, driveways, unpaved roads & alleys)

Permittees shall be assessed a fee of **\$25.00** to cover the costs of supplying an inspector. Only those projects requiring inspections of over one (1) hour shall be assessed a fee.

Excavation and Pavement Patch:

Saw-cut fee (pavement and concrete) **\$75.00/hr** (\$50.00 minimum)

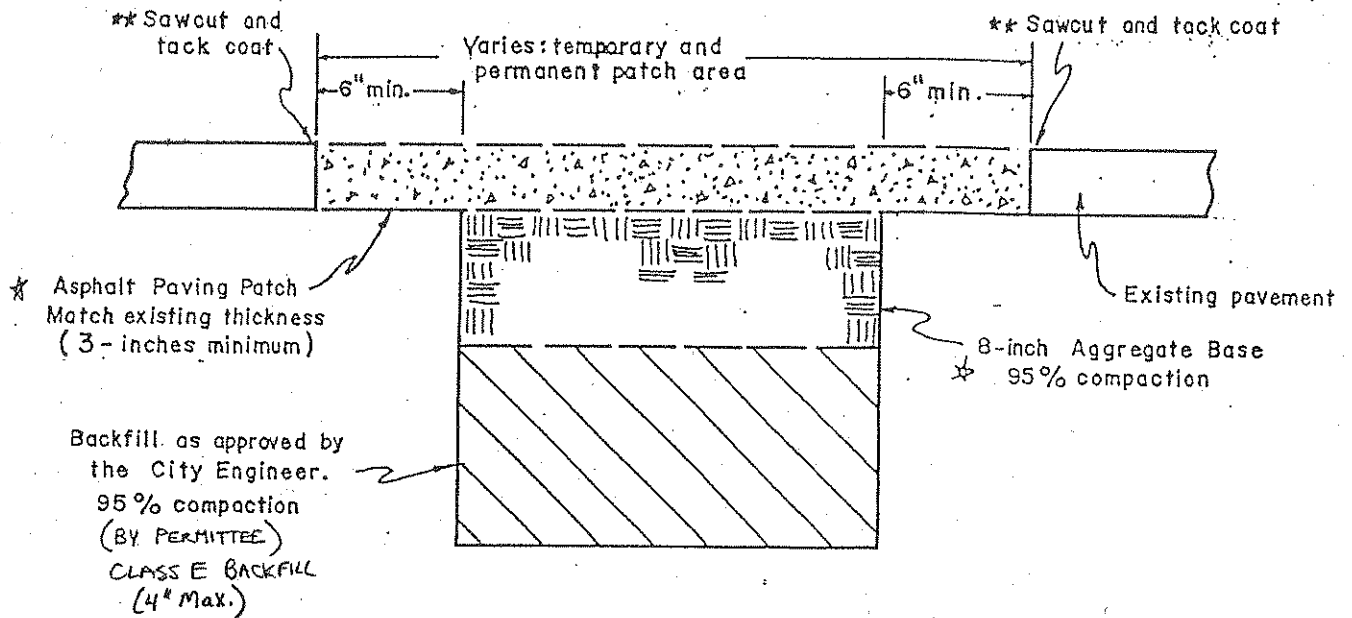
Patching Fee: **\$3.00/SF**

Minimum Patching Fee - \$25.00

New street excavation penalty fee (paved streets only) - 5% of cost of permit for each month until pavement is 5 years old. Varies from 5% to 300% of regular permit cost.

NOTES: (1) The pavement patching fee shall be assessed for the actual area measured from saw-cut to saw-cut (as shown on the Patching Detail) unless a breakage of the pavement outside the area occurs which would warrant an additional patching area.

(2) The new Street Excavation Fee is meant to encourage property owners to place their underground utilities prior to the paving of their streets to avoid future patches.



NOTES:

- * WORK MAY BE DONE BY A LICENSED CONTRACTOR, PROVIDED THAT CITY AGREES TO THIS ARRANGEMENT BEFOREHAND.
- ** All sawcuts shall be straight and neat. Sawcuts shall be perpendicular or parallel to the excavation.

CITY OF WINNEMUCCA
PUBLIC WORKS DEPARTMENT

Effective Date:
August 18, 1983
REVISED FEB. 1989

PAVEMENT PATCHING DETAIL
(Applies to all excavations located in City
r/w where pavement exists.)