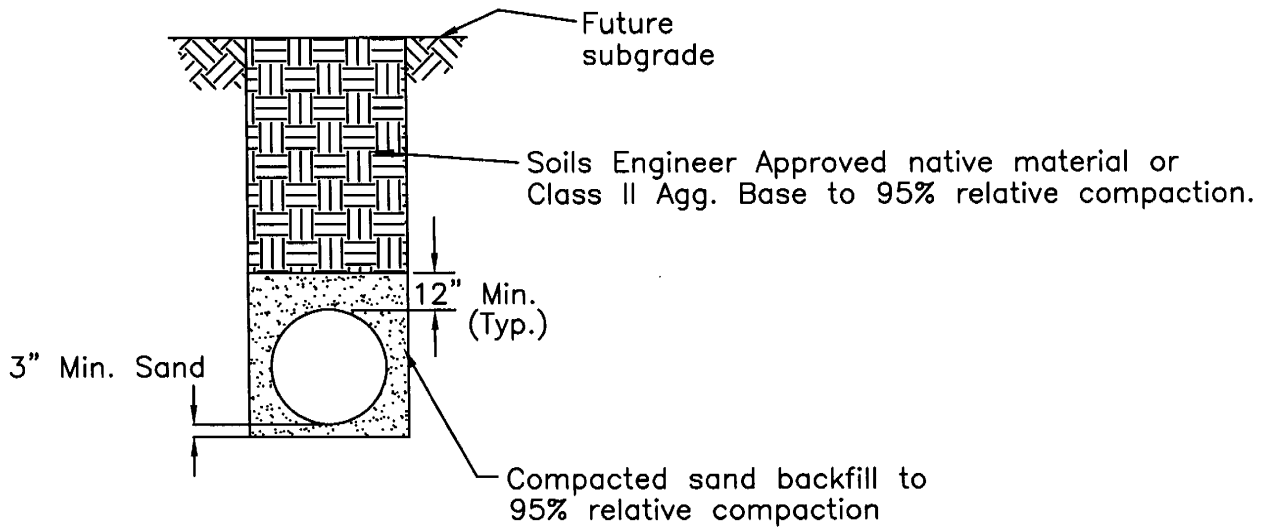


NOTES:

1. All street cuts require an encroachment permit approved by the City Engineer 24 hours before work is to begin.
2. Excavate to proper depth, install utility, and backfill as shown.
3. Contractor may be required to place a granular bedding on the trench floor and under pipe depending on soil condition and type of pipe used.
4. All backfill shall be compacted to a minimum of 95% relative compaction.
5. Contractor shall protect sand backfill from construction traffic. (Native material may be used.)
6. Water jetting of trench is not allowed.
7. Section shown below shall be used for any parcel of land reasonably anticipated to be used for roadway purposes in the foreseeable future.



# TRENCH (NEW CONSTRUCTION)

DRAWN BY: LDL	SCALE:
CHECKED BY:	N.T.S.
LAST REVISED: 10/04	



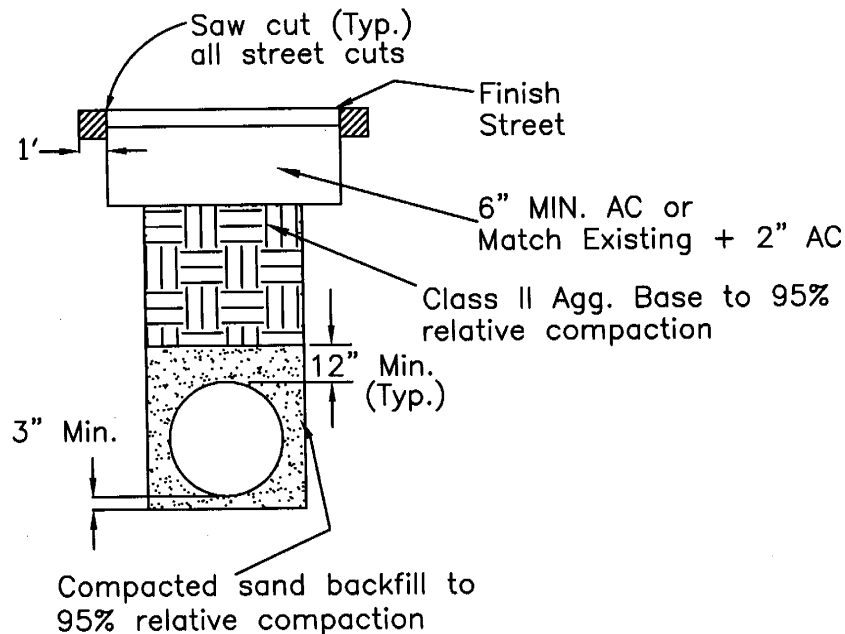
APPROVED BY: *[Signature]*  
 CITY ENGINEER      DATE: AUG 12 2005

SECTION: **GENERAL UNDERGROUND**

DRAWING NO.: **UN-1**

**NOTES:**

1. All street cuts require an encroachment permit approved by the City Engineer 24 hours before work is to begin.
2. Asphalt or concrete streets shall be overcut one foot greater on each side than the trench width.
3. Excavate to proper depth, install utility, and backfill as shown.
4. Contractor may be required to place a granular bedding on the trench floor and under pipe depending on soil condition and type of pipe used.
5. All backfill shall be compacted to a minimum of 95% relative compaction.
6. Final paving shall be smooth and conform to existing pavement.
7. When street cuts are located adjacent and parallel to curb, final paving should be 1/4" above lip of gutter.
8. Contractor shall protect sand backfill from construction traffic. (Native material may be used.)
9. Slurry backfill must be 2 sack minimum.
10. Water jetting of trench is not allowed.
11. Section shown below shall be used for any parcel of land reasonably anticipated to be used for roadway purposes in the foreseeable future.



**TRENCH RESTORATION  
EXISTING STREET**

DRAWN BY: LDL	SCALE:
CHECKED BY:	N.T.S.
LAST REVISED: 10/04	

SECTION: **GENERAL  
UNDERGROUND**

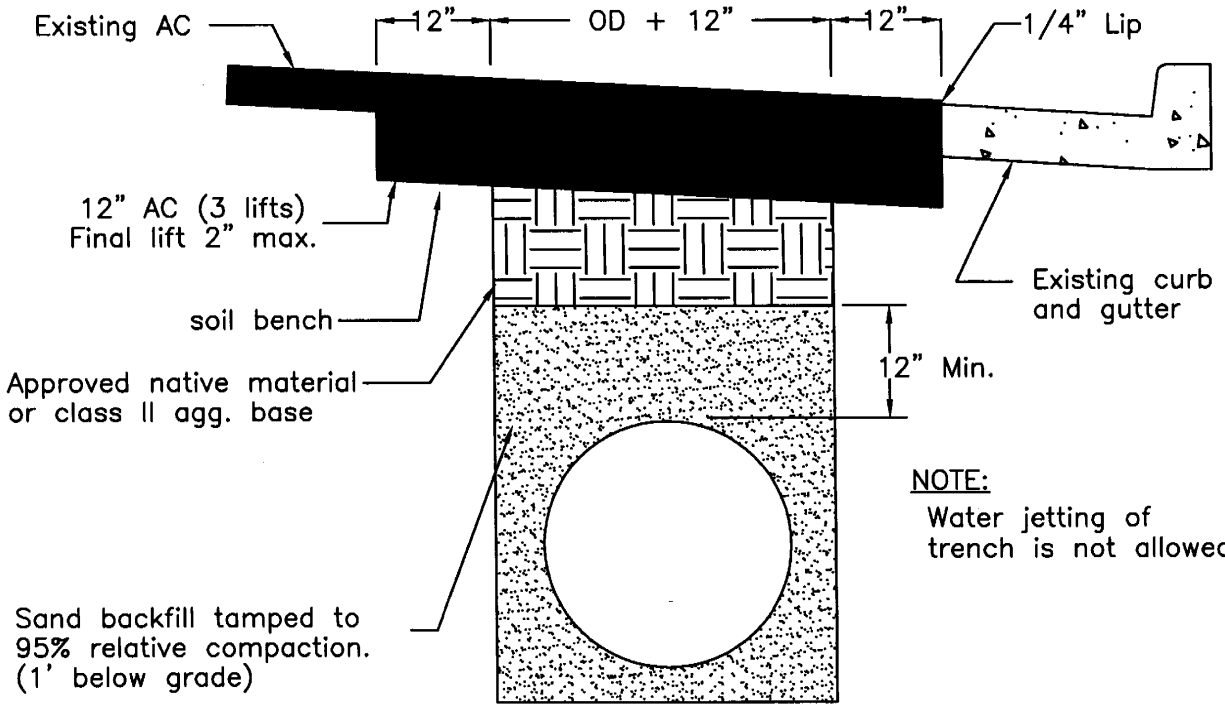
DRAWING NO.: **UN-2**



APPROVED BY:

CITY ENGINEER

AUG 12 2005  
DATE



**NOTE:**  
Water jetting of trench is not allowed.

**TRENCH RESTORATION - EXISTING STREET - ADJACENT TO GUTTER**

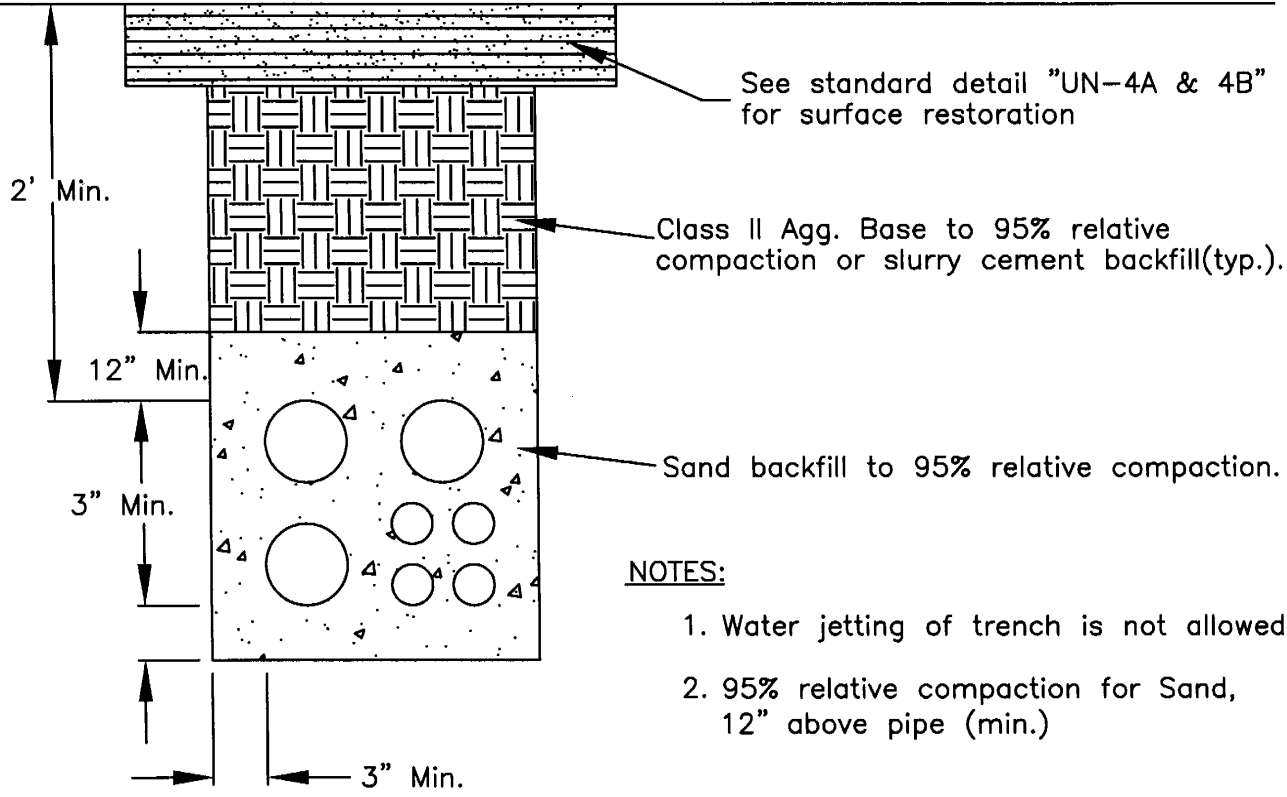
DRAWN BY: LDL	SCALE:
CHECKED BY:	N.T.S.
LAST REVISED: 10/04	



APPROVED BY:  
*[Signature]*  
CITY ENGINEER

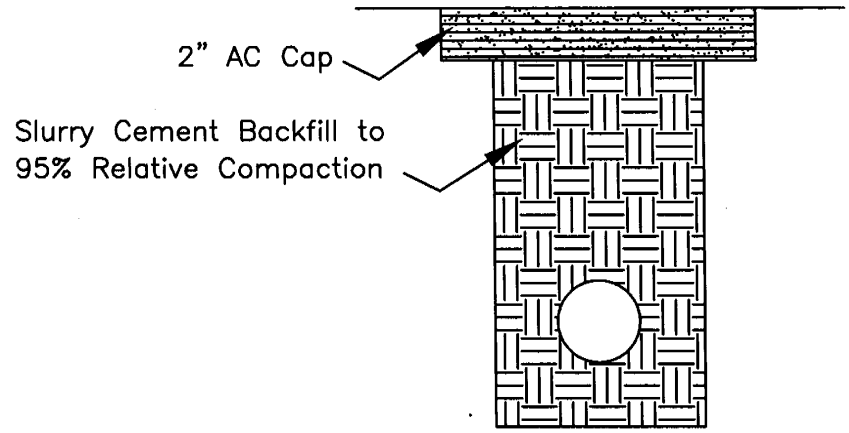
AUG 12 2005  
DATE

SECTION: **GENERAL UNDERGROUND**  
DRAWING NO.: **UN-2A**



NOTES:

1. Water jetting of trench is not allowed.
2. 95% relative compaction for Sand, 12" above pipe (min.)



TRENCH RESTORATION BY ROCKWHEEL

**TRENCH RESTORATION**

DRAWN BY: LDL	SCALE:
CHECKED BY:	N.T.S.
LAST REVISED: 10/04	

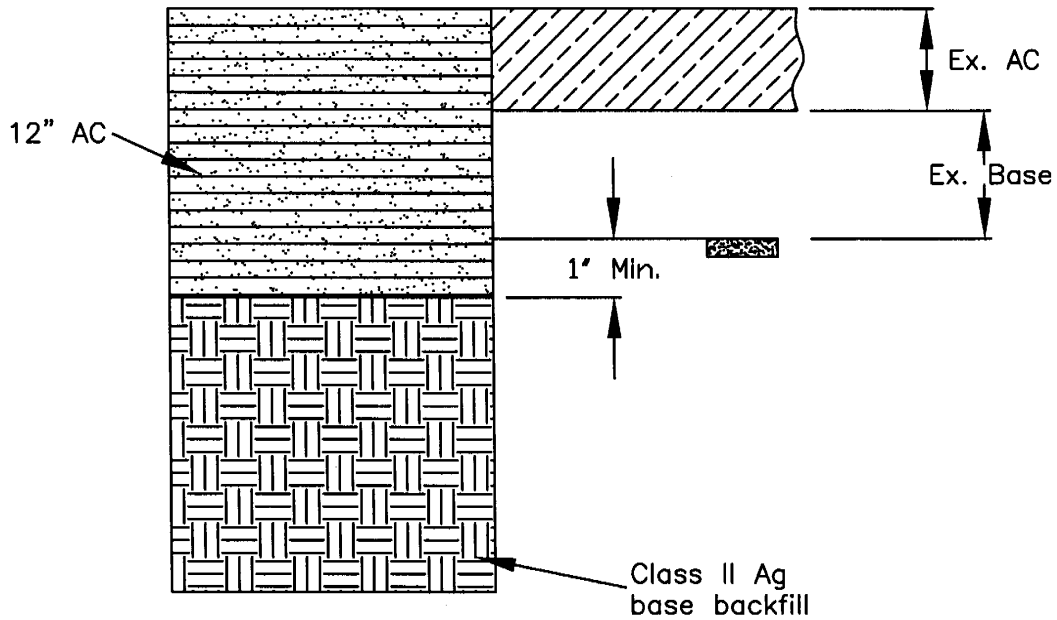
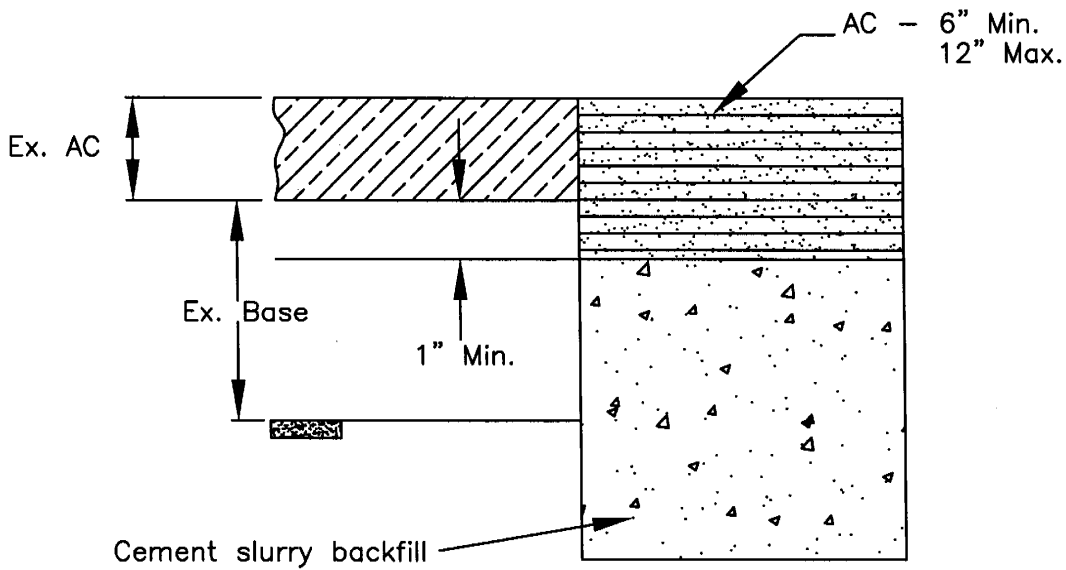


APPROVED BY:  
  
 CITY ENGINEER

AUG 12 2005  
 DATE

SECTION: **GENERAL UNDERGROUND**

DRAWING NO.: **UN-3**



**NOTES:**

1. Apply tack coat to cut edge of existing pavement.
2. Slurry Cement Backfill (See Cal Trans Specs., July 1992)  
Slurry will contain no more than 188 pounds of cement per cubic yard of material.

**TEMPORARY RESTORATION IN EXISTING PAVEMENT SURFACES**

DRAWN BY: LDL  
CHECKED BY:  
LAST REVISED: 10/04

SCALE:  
**N.T.S.**

SECTION: **GENERAL  
UNDERGROUND**

DRAWING NO.: **UN-4**

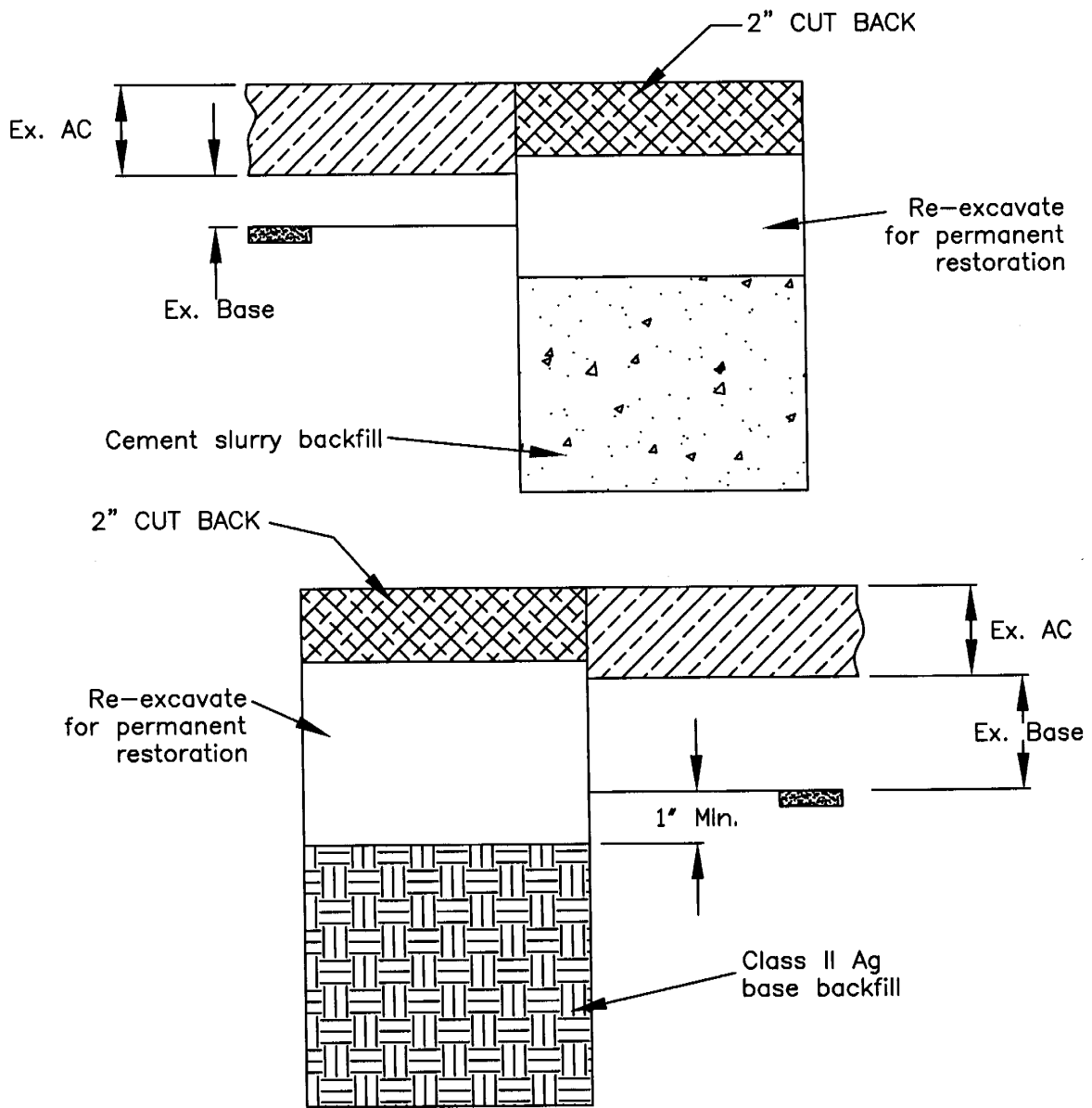


APPROVED BY:

*[Signature]*

CITY ENGINEER

AUG 12 2005  
DATE



**NOTES:**

1. Apply tack coat to cut edge of existing pavement.
2. Temporary Restoration (30 days only).  
 Slurry Cement Backfill (See Cal Trans Specs., July 1992)  
 Slurry will contain no more than 188 pounds of cement per cubic yard of material.

**TEMPORARY RESTORATION IN EXISTING PAVEMENT SURFACES**



APPROVED BY:  
*[Signature]*  
 CITY ENGINEER

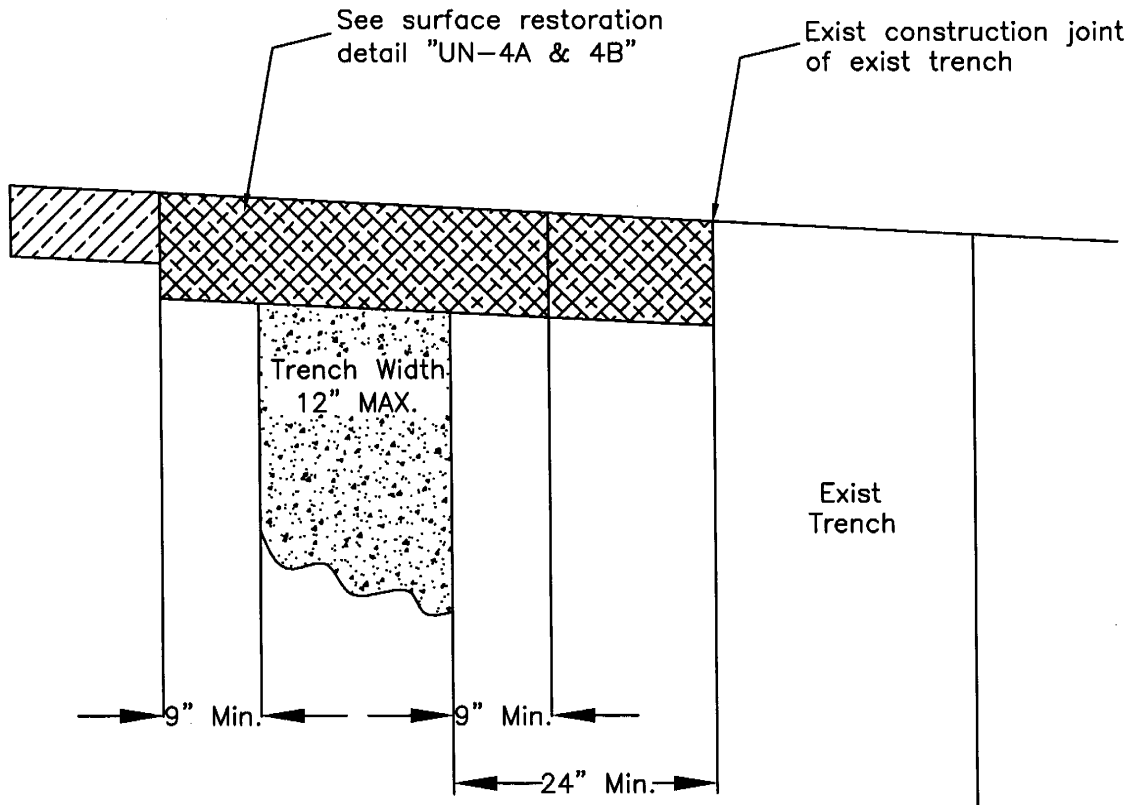
AUG 12 2005  
 DATE

DRAWN BY: LDL  
 CHECKED BY:  
 LAST REVISED: 10/04

SCALE:  
 N.T.S.

SECTION: **GENERAL UNDERGROUND**

DRAWING NO.: **UN-4A**



# TRENCH CONSTRUCTION - EXISTING TRENCH

DRAWN BY: LDL  
 CHECKED BY:  
 LAST REVISED: 10/04

SCALE:  
 N.T.S.

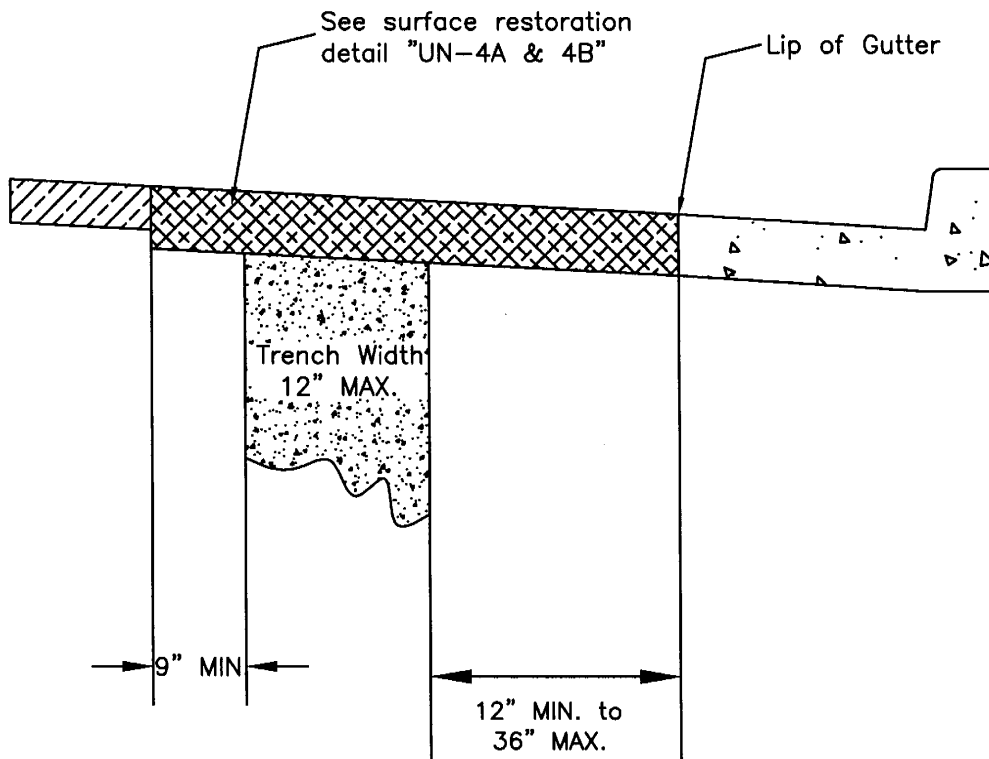
SECTION:  
 GENERAL UNDERGROUND

DRAWING NO.: UN-5



APPROVED BY:  
*[Signature]*  
 CITY ENGINEER

AUG 12 2005  
 DATE



# TRENCH CONSTRUCTION - CURB & GUTTER

DRAWN BY: LDL	SCALE:
CHECKED BY:	N.T.S.
LAST REVISED: 10/04	

SECTION: **GENERAL UNDERGROUND**

DRAWING NO.: **UN-5A**



APPROVED BY:

*Paul S. ...*

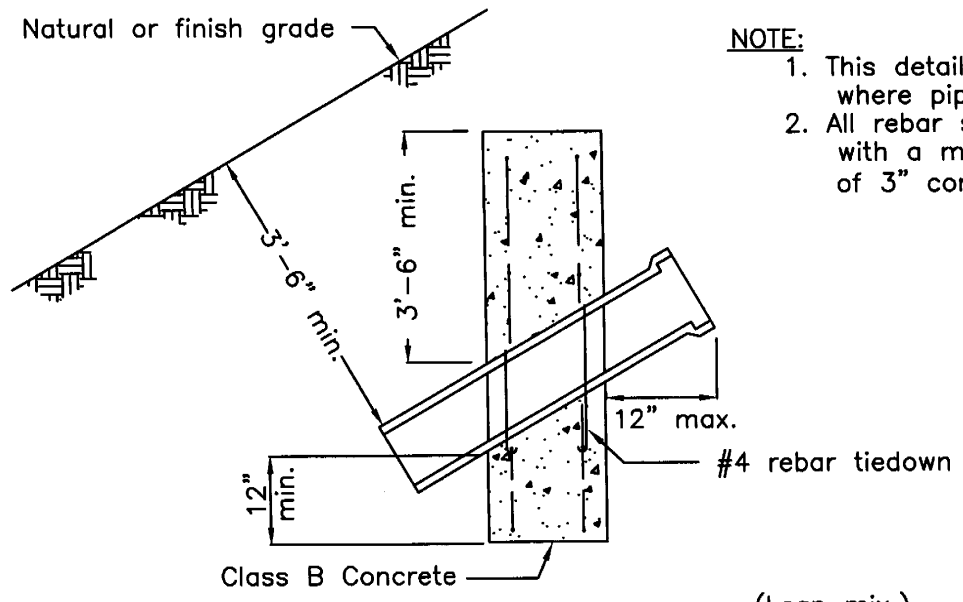
CITY ENGINEER

AUG 12 2005  
DATE

Natural or finish grade

**NOTE:**

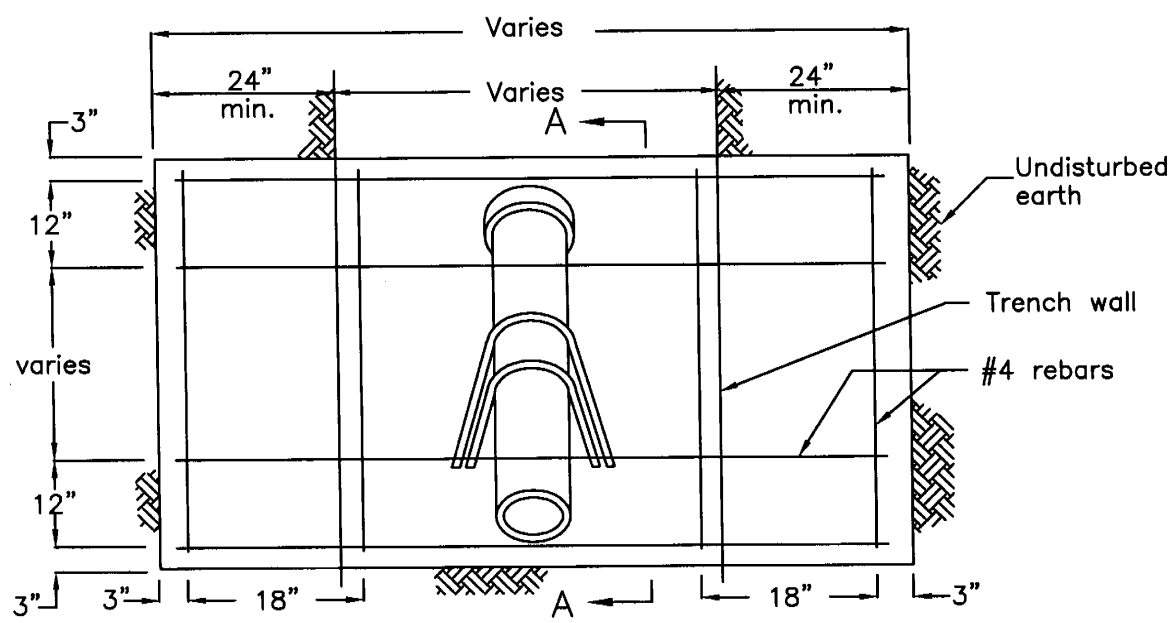
- 1. This detail to be used where pipe S>20%.
- 2. All rebar shall be #4 with a minimum cover of 3" concrete.



Section A-A

(Lean mix.)

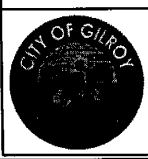
10"



Front View

**PIPE ANCHOR FOR HILLSIDE DEVELOPMENTS**

DRAWN BY: LDL	SCALE:
CHECKED BY:	N.T.S.
LAST REVISED: 10/04	



APPROVED BY: *[Signature]*  
 CITY ENGINEER      DATE: AUG 12 2005

SECTION: **GENERAL UNDERGROUND**  
 DRAWING NO.: **UN-6**