

# CITY OF TURLOCK

## CAPITAL PROJECT NO. 23-058

### CITY UTILITY TRENCH REPAIR – 2024

#### LEGEND

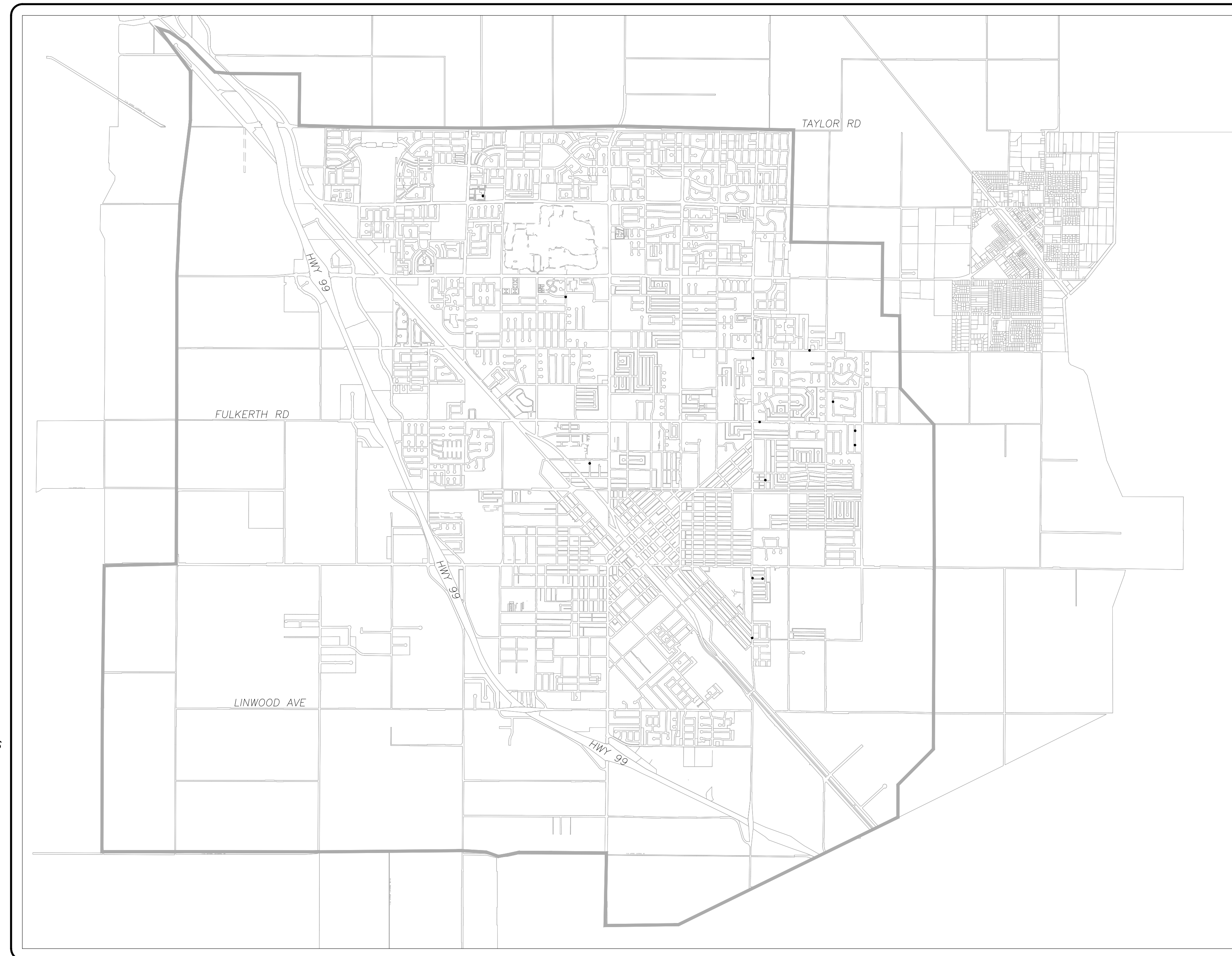
	BENCHMARK
	EX. MONUMENT WELL
	EX. MONUMENTS
	EX. SET MONUMENT
	EX. CONCRETE ELEVATION
	EX. FLOWLINE OF CURB ELEVATION
	EX. BACK OF SIDEWALK ELEVATION
	EX. PAVEMENT ELEVATION
	EX. GROUND ELEVATION
	PROPERTY LINE
	CENTERLINE
	EX. FENCE
	EX. SANITARY SEWER PIPELINE
	EX. STORM DRAIN PIPELINE
	EX. WATER PIPELINE
	EX. SANITARY SEWER MANHOLE
	EX. STORM DRAIN MANHOLE
	EX. WATER VALVE
	EX. WATER WELL
	EX. NON-POTABLE WATER VALVE
	EX. MANHOLE
	EX. TELEPHONE MANHOLE
	EX. PRESSURE MANHOLE
	EX. SANITARY SEWER CLEAN OUT
	EX. FIRE HYDRANT
	EX. GAS VALVE
	EX. CATCH BASIN
	EX. DRAIN INLET
	EX. TRAFFIC SIGNAL HAND WELL
	EX. TRAFFIC SIGNAL LOOP DETECTOR
	EX. BOLLARD
	EX. LIGHT
	EX. STREET LIGHT
	EX. SIGN
	EX. POWER POLE
	EX. TELEPHONE POLE
	EX. JOINT UTILITY POLE
	EX. GUY POLE
	EX. UTILITY SERVICE POLE
	EX. TREE
	EX. CABLE CHRISTY BOX
	EX. ELECTRICAL CHRISTY BOX
	EX. FIRE ALARM CHRISTY BOX
	EX. GAS CHRISTY BOX
	EX. IRRIGATION CHRISTY BOX
	EX. STREET LIGHT CHRISTY BOX
	EX. COMMUNICATION CHRISTY BOX
	EX. TRAFFIC CHRISTY BOX
	EX. IRRIGATION CONTROL VALVE BOX
	EX. TELEPHONE CHRISTY BOX
	EX. UTILITY CHRISTY BOX
	EX. WATER CHRISTY BOX
	PROP. SANITARY SEWER PIPELINE
	PROP. STORM DRAIN PIPELINE
	PROP. WATER PIPELINE
	PROP. NON-POTABLE WATER PIPELINE
	PROP. SEPARATION MANHOLE
	PROP. STORM DRAIN MANHOLE
	PROP. CATCH BASIN
	PROP. DROP INLET
	PROP. SANITARY SEWER CLEAN OUT
	PROP. SANITARY SEWER MANHOLE
	PROP. POTABLE WATER VALVE
	PROP. NON-POTABLE WATER VALVE
	PROP. FIRE HYDRANT
	PROP. WATER BLOW-OFF ASSEMBLY
	PROP. HOT MIX ASPHALT
	PROP. CONCRETE

#### ABBREVIATIONS

C	CONCRETE
P	PAVEMENT
R	RADIUS
L	LENGTH
S	SLOPE
W	POTABLE WATER
OC	ON CENTER
BC	BEGINNING OF CURVE
EC	END OF CURVE
AC	ASPHALT CONCRETE
DI	DROP INLET
AV	AIR VENT
IV	IRRIGATION VALVE
AB	AGGREGATE BASE
SF	SQUARE FEET
CY	CUBIC YARD
RW	RIGHT-OF-WAY
PL	PROPERTY LINE
CL	CENTER LINE
FL	FLOWLINE
EP	EDGE OF PAVEMENT
TC	TOP OF CURB
EX	EXISTING
GB	GRADE BREAK
HP	HIGH POINT
LP	LOW POINT
AP	ANGLE POINT
UP	UTILITY POLE
PP	ELECTRICITY POLE
TP	TELEPHONE POLE
JP	JOINT UTILITY POLE
SP	SERVICE POLE
GP	GUY POLE
LF	LINEAR FOOT
CB	CATCH BASIN
SS	SANITARY SEWER
SD	STORM DRAIN
APN	ASSESSORS' PARCEL NUMBER
BSW	BACK OF SIDEWALK
INV	INVERT
HMA	HOT MIX ASPHALT
NPW	NON-POTABLE WATER
TYP	TYPICAL
POC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
IDB	IRRIGATION DISTRIBUTION BOX
ISP	IRRIGATION STAND PIPE
PROP	PROPOSED
RHMA	RUBBERIZED HOT MIX ASPHALT
SSMH	SANITARY SEWER MANHOLE
SSCO	SANITARY SEWER CLEAN OUT
SDMH	STORM DRAIN MANHOLE

#### CONTACTS

<u>CITY OF TURLOCK, ENGINEERING DIVISION</u> (209) 668-5520
<u>CITY OF TURLOCK, MUNICIPAL SERVICES DEPARTMENT</u> (209) 668-5590 FOR SEWER, STORM AND WATER LINES
<u>TURLOCK IRRIGATION DISTRICT (ELECTRICAL)</u> (209) 605-0945 DAVID PORATH
<u>TURLOCK IRRIGATION DISTRICT (IRRIGATION)</u> (209) 883-8367 TODD TROGLIN
<u>CHARTER COMMUNICATIONS</u> (408) 612-7569 MITCHELL RODRIGUEZ
<u>PACIFIC GAS &amp; ELECTRIC</u> (209) 561-6070 TRENT MILLSAP
<u>AT&amp;T</u> (209) 507-1689 JIM JELLEY
<u>FIRE DEPARTMENT (NON-EMERGENCY)</u> (209) 668-5580
<u>POLICE DEPARTMENT (NON-EMERGENCY)</u> (209) 668-1200
<u>AMBULANCE</u> (209) 632-2271
<u>TURLOCK SCAVENGER</u> (209) 668-7274



VICINITY MAP

#### SHEET INDEX

SHEET	DESCRIPTION
1	SHEET INDEX, LEGEND & VICINITY MAP
2	LOCATION PLAN & GENERAL NOTES
3	TRENCHES WITH IRREGULAR DIMENSIONS
4	TRENCHES WITH IRREGULAR DIMENSIONS
5	CONSTRUCTION DETAILS

#### REVIEWED BY

*Carlos Guerrero* 7/16/24  
CARLOS GUERRERO, UTILITIES MANAGER DATE

#### PLAN SET APPROVED BY

*William D. Morris* 7/15/2024  
WILLIAM D. MORRIS, R.C.E. DATE  
CITY ENGINEER



NOTE:  
ALL REFERENCES AND WRITTEN DIMENSIONS SHALL SUPERSEDE ALL SCALED DISTANCES AND SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

REVIEWED BY:  
*Stephen Fremming*  
STEPHEN FREMMING, P.E.  
PRINCIPAL CIVIL ENGINEER  
7/15/2024  
DATE

APPROVED BY:  
*William D. Morris*  
WILLIAM D. MORRIS, R.C.E. 55910  
CITY ENGINEER  
7/15/2024  
PLANS APPROVAL DATE



CITY OF TURLOCK  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION  
156 S. BROADWAY, STE 150  
(209) 668-5520

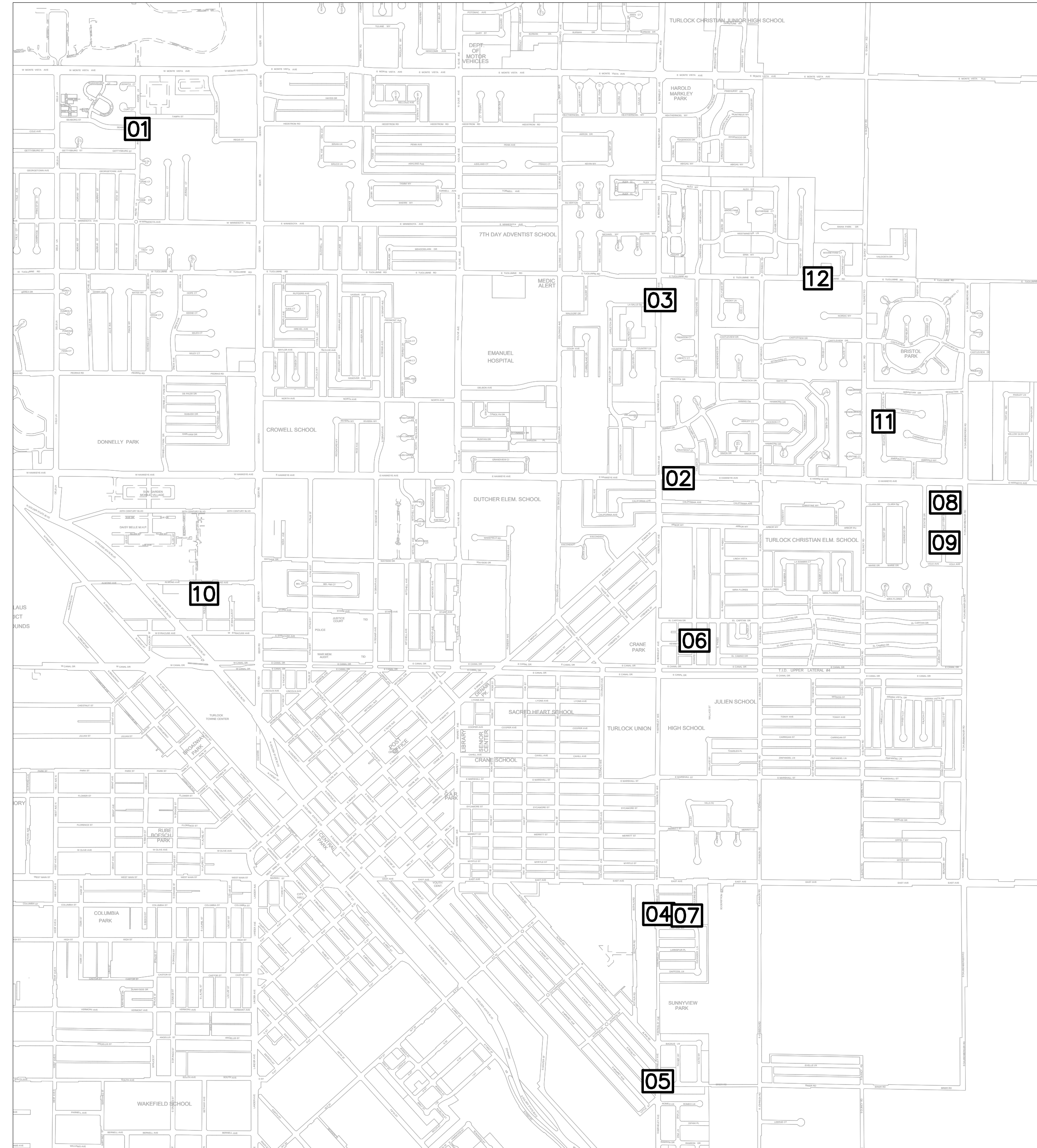
SHEET INDEX, LEGEND, & VICINITY MAP  
CAPITAL PROJECT NO. 23-058  
CITY UTILITY TRENCH REPAIR – 2024

VERIFY SCALE  
BAR IS 1" ON ORIGINAL DRAWING  
1/4" 3/4" 1"  
0 1/2"  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAWN BY: OM  
REV. BY: SRF  
CH. BY: SRF  
DATE: JULY 12, 2024  
SCALE: NOT TO SCALE  
23-058 DRAWINGS.DWG

SHEET  
01  
OF 05

TRENCH LOCATIONS



ID #	LOCATION	UTILITY	DIA (IN)	LENGTH (FT)	WIDTH (FT)	TRENCH AREA (SQ FT)	GRIND/PAVE SURFACE AREA (SQ FT)
1	ANDRE & SEABORG AVE	SD	16	REF SHEET 3		50	326
2	1600 N BERKELEY	W	6	REF SHEET 3		156	396
3	2230 N BERKELEY (NEW SEWER LATERAL)	SS	4	REF SHEET 3		114	340
4	111 S. BERKELEY	W	1	18	4	72	245
5	724 S BERKELEY AVE (NEW WATER SERVICE)	W	1	REF SHEET 3		47	255
6	900 EDWARD	W	1	REF SHEET 3		107	400
7	161 OLEANDER LN (IN ALLEY)	W	1	5	2	10	100
8	1380 VALLEY VIEW	W	1	REF SHEET 3		59	160
9	1245 VALLEY VIEW DR	W	1	REF SHEET 3		72	336
10	1053 SOUZA	W	1	REF SHEET 3		56	158
11	1785 GUATAVITA	SS	1	REF SHEET 4		108	504
12	2200 E TUOLUMNE	W	1	REF SHEET 4		25	120
<b>TOTAL</b>						<b>876</b>	<b>3340</b>

NOTES:

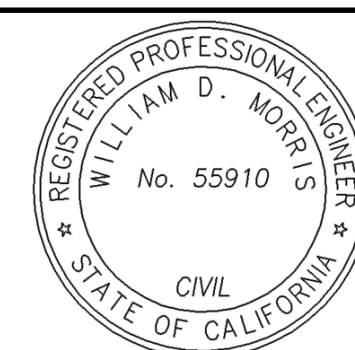
- TRENCH REPAIRS SHALL BE DONE IN ACCORDANCE WITH THE MODIFIED CITY DRAWINGS T-1 THROUGH T-3 AS SHOWN ON SHEET 5 OF THESE PLANS, AND SHALL COMPLY WITH ALL CITY OF TURLOCK STANDARDS. PER THE MODIFIED DRAWINGS T-1 AND T-2 THE CONTRACTOR SHALL EXCAVATE AND REMOVE EXISTING MATERIAL TO THE TOP OF PIPE.
- TRENCH BACKFILL SHALL BE COMPACTED TO 95% BEFORE PLACING 6-INCH AB. COMPACTION TESTING WILL BE PROVIDED BY THE CITY. COORDINATE TESTING REQUESTS WITH CITY ENGINEERING INSPECTOR.
- FOR BIDDING PURPOSES, CONTRACTOR SHALL ASSUME INVERT OF UTILITIES ARE LOCATED A MAXIMUM DEPTH OF 4 FEET BELOW EXISTING PAVEMENT AND THAT THE EXISTING DEPTH OF ASPHALT PAVEMENT IS 4 INCHES.
- CONTRACTOR SHALL OBTAIN ENCROACHMENT PERMIT FROM THE CITY OF TURLOCK PRIOR TO BEGINNING WORK (NO FEE).
- CONTRACTOR SHALL VERIFY DIMENSIONS AND CALCULATIONS OF ALL GRINDING AREAS BEFORE STARTING THE PROJECT.
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE STATE AND FEDERAL SAFETY AND LABOR CODES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION AND PROTECTION OF ALL UNDERGROUND PIPES, CONDUITS AND OTHER IMPROVEMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL NOTIFY:
  - UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600 TO LOCATE EXACT POSITION OF UNDERGROUND TELEPHONE CABLE, GAS LINES, SEWER LINES AND WATER LINES.
  - TURLOCK IRRIGATION DISTRICT AT (209) 883-8464 TO LOCATE UNDERGROUND ELECTRICAL CONDUIT.
  - CHARTER CABLE AT (209) 656-2124 TO LOCATE UNDERGROUND CABLE T.V.
  - FIRE DEPARTMENT AT (209) 668-5580, POLICE DEPT. AT (209) 668-5550 AND AMBULANCE AT (209) 632-2271.
- ANY UTILITY TO BE RELOCATED OR REMOVED SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY.
- CITY CREWS WILL REPLACE PAVEMENT MARKINGS AND MARKERS.
- ONE LANE SHALL REMAIN OPEN AT ALL TIMES. CONTRACTOR SHALL PROVIDE FLAGGERS DURING WORKING HOURS.
- ALL TRENCHES SHALL BE BACKFILLED AND PAVED WITH TEMPORARY AC AT THE END OF THE WORK DAY.



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7/15/2024  
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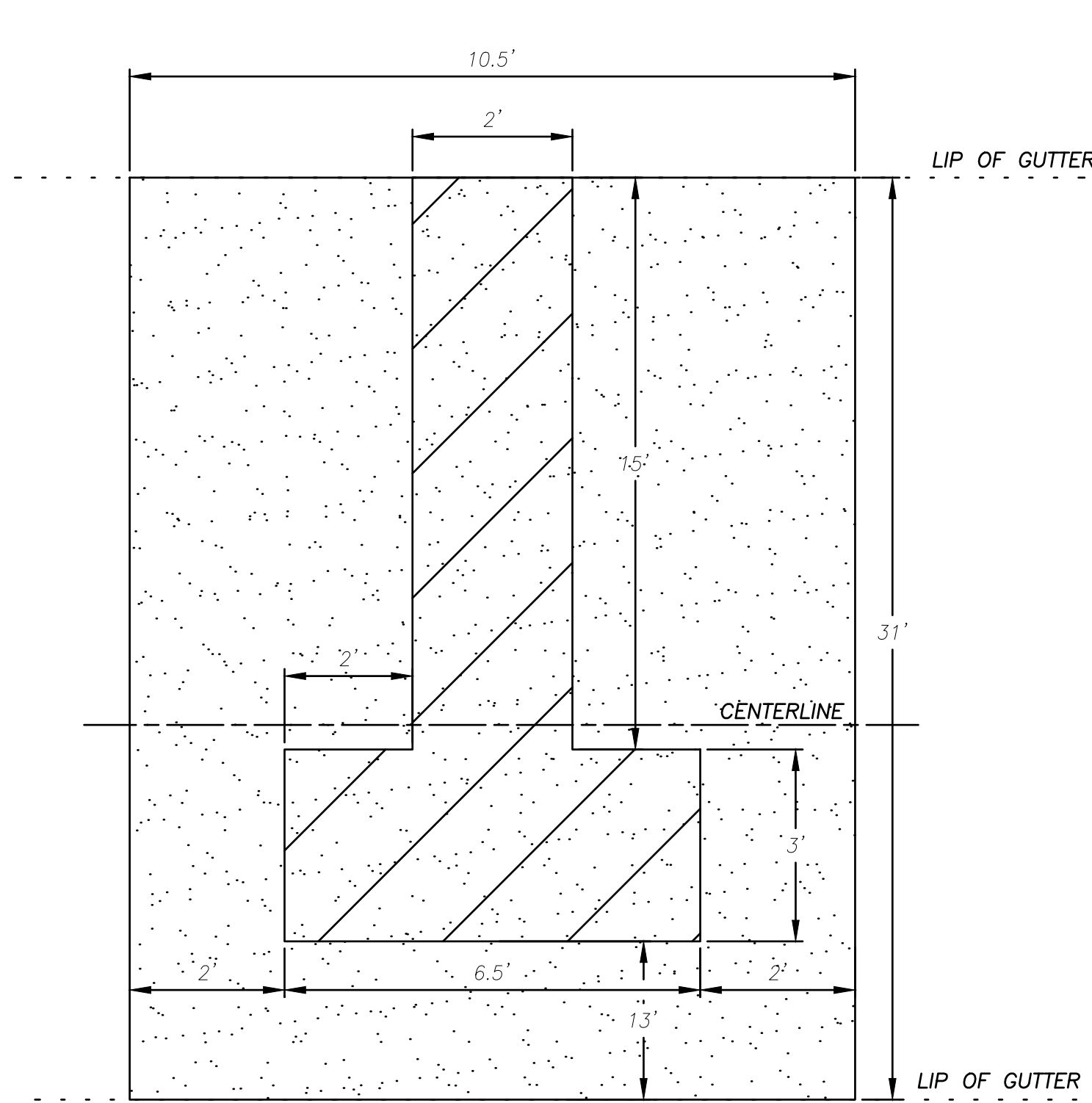
CITY OF TURLOCK  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION  
156 S. BROADWAY, STE 150  
(209) 668-5520

LOCATION PLAN & GENERAL NOTES  
CAPITAL PROJECT NO. 23-058  
CITY UTILITY TRENCH REPAIR - 2024

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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

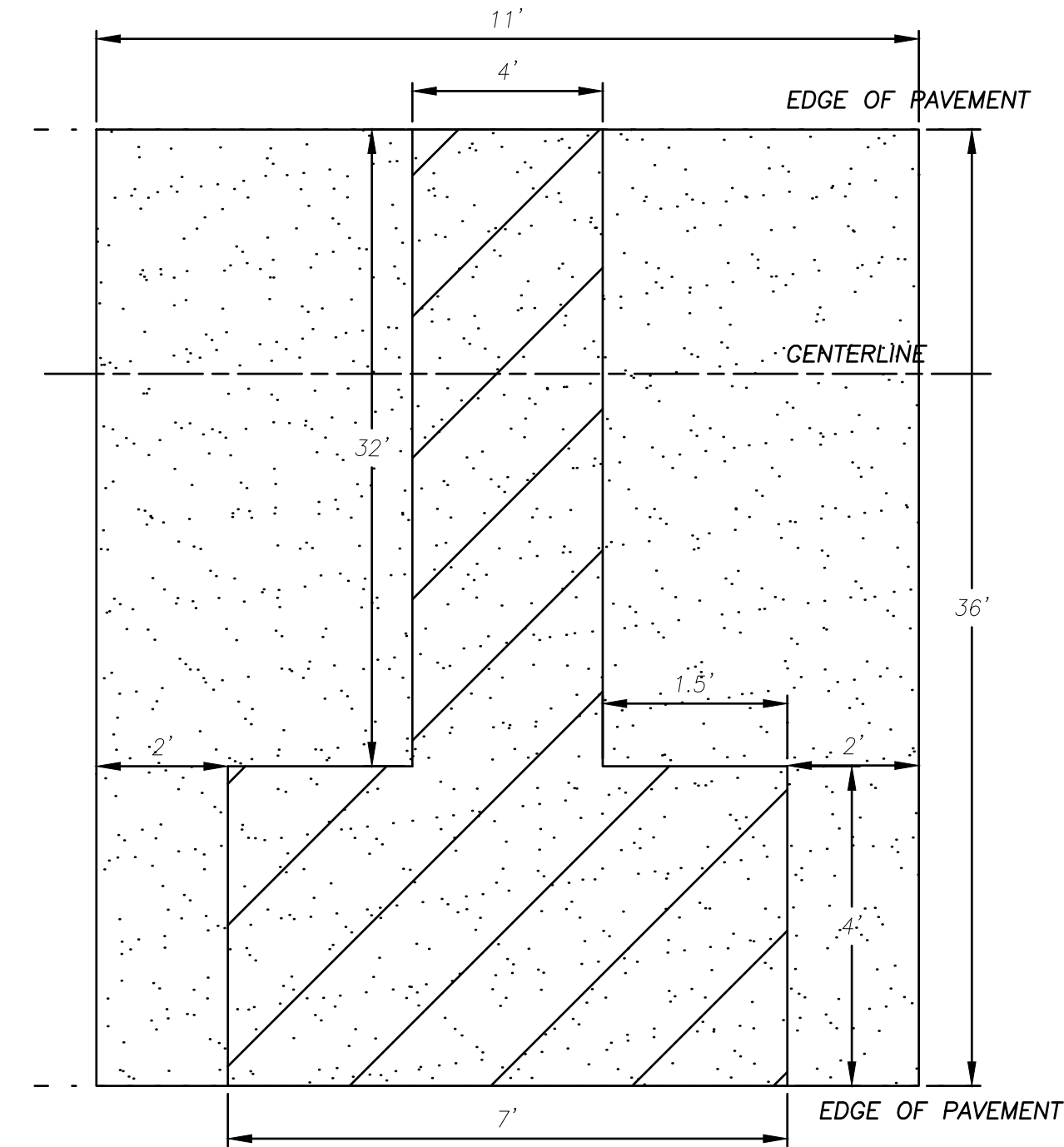
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OF 05



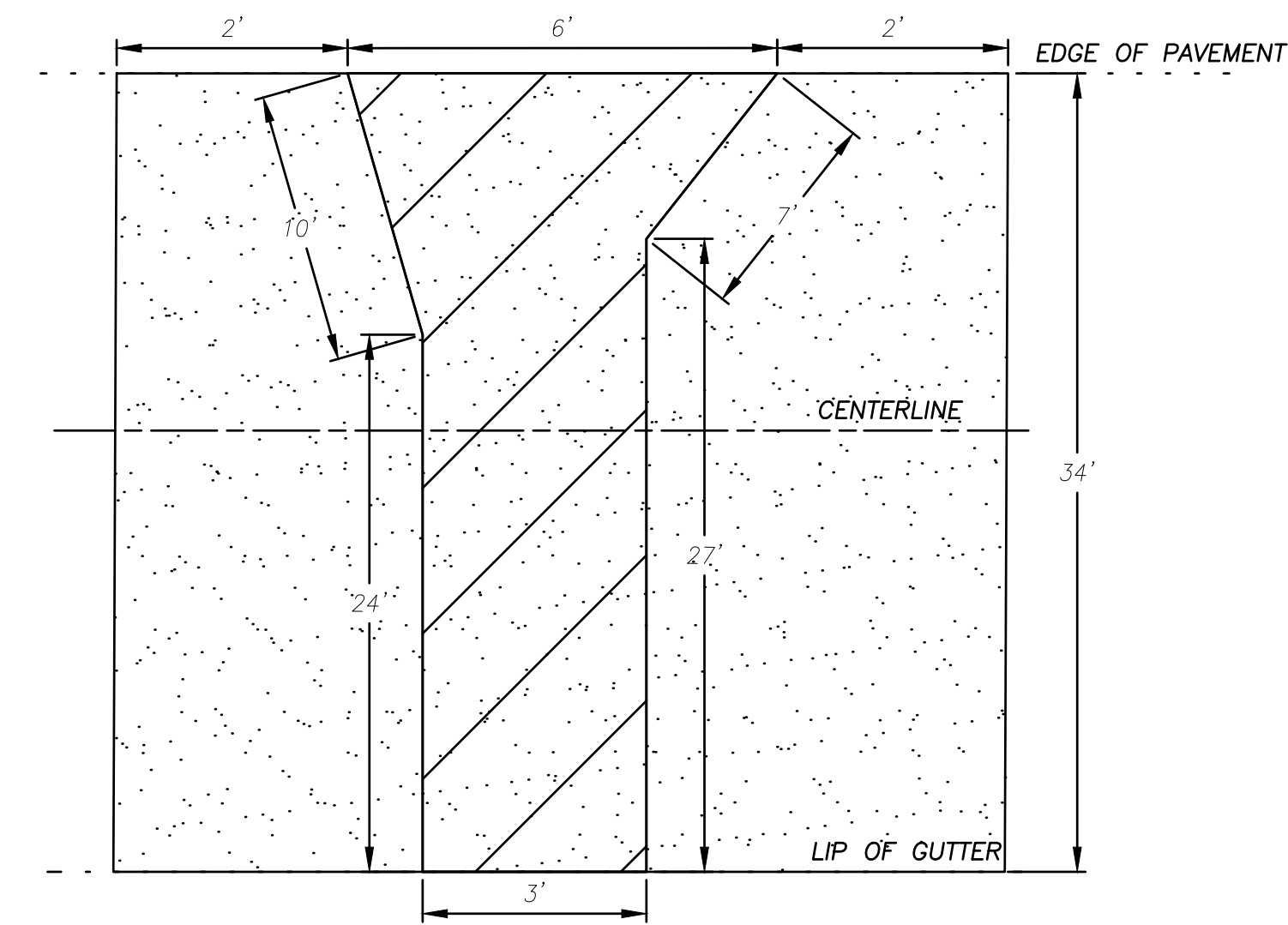
TRENCH #1 DIMENSIONS

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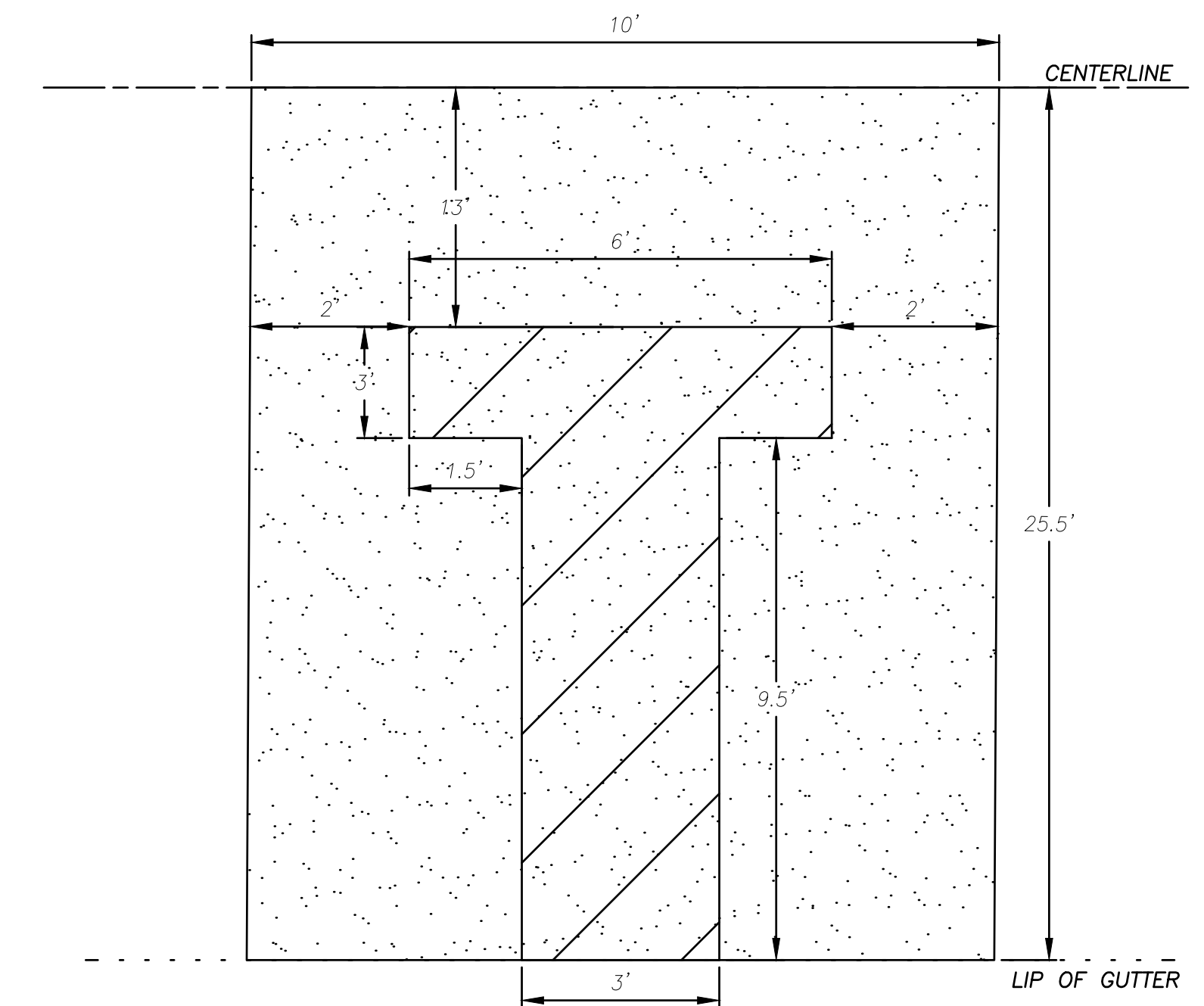
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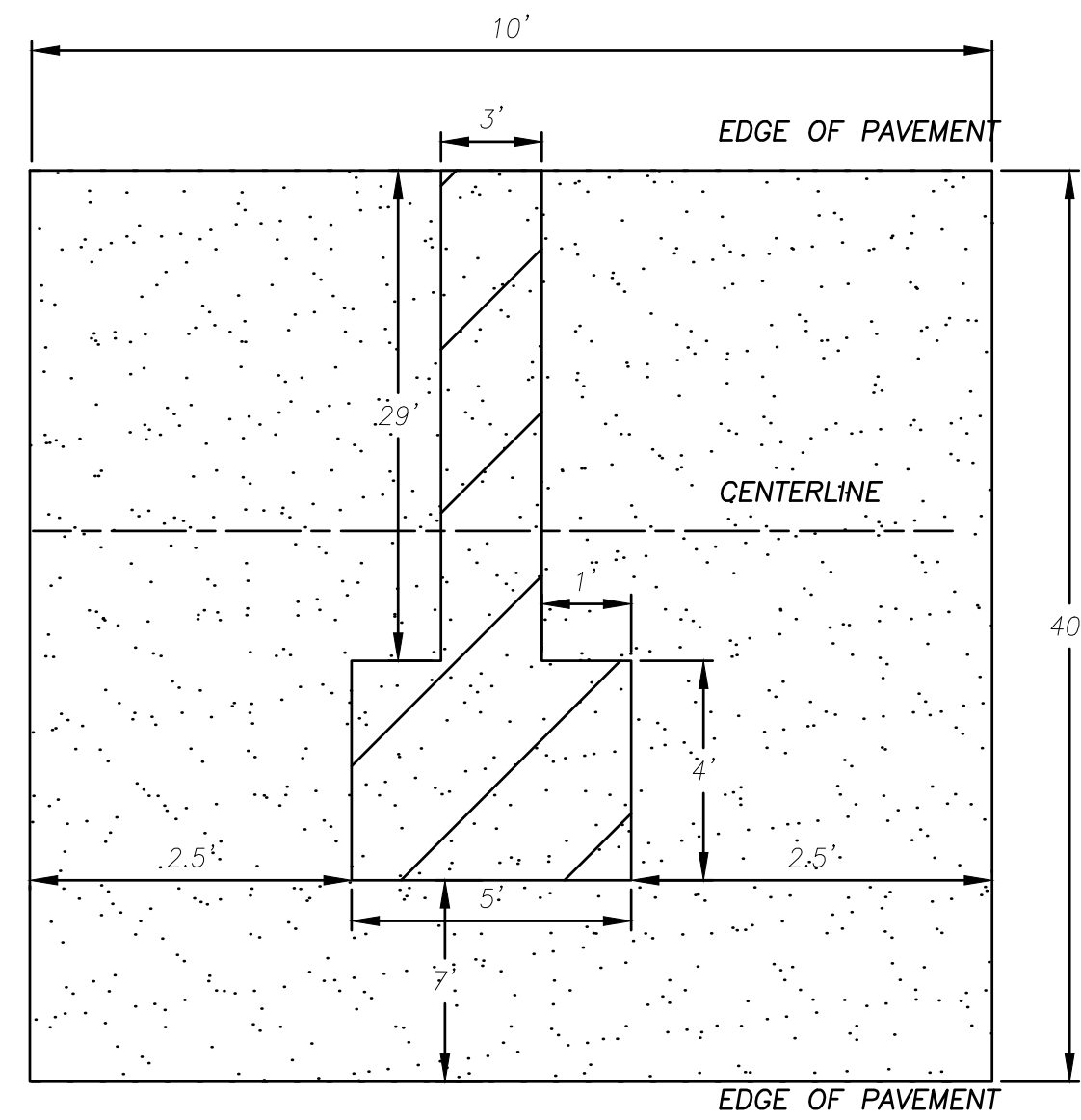
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NOT TO SCALE



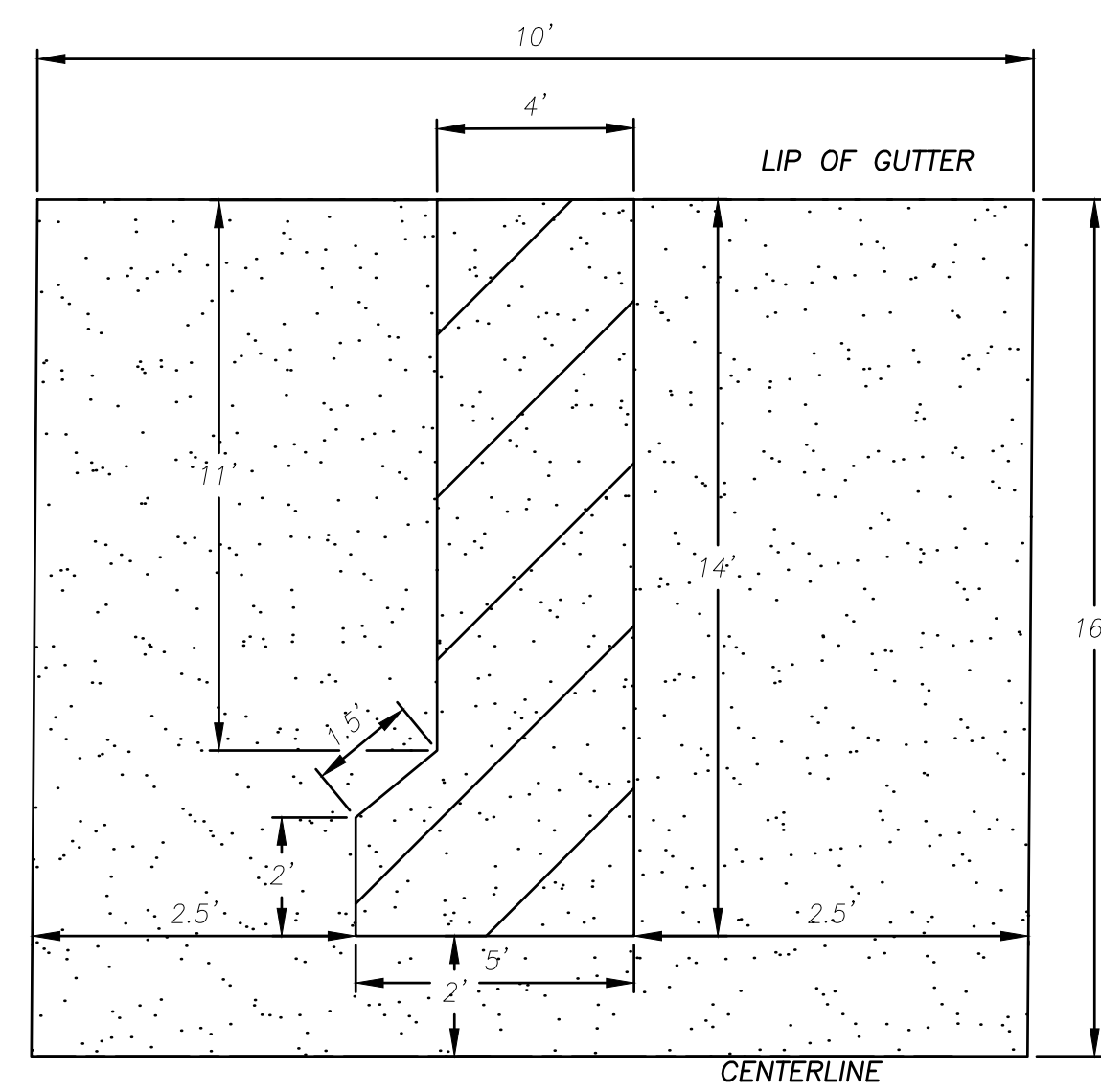
TRENCH #5 DIMENSIONS

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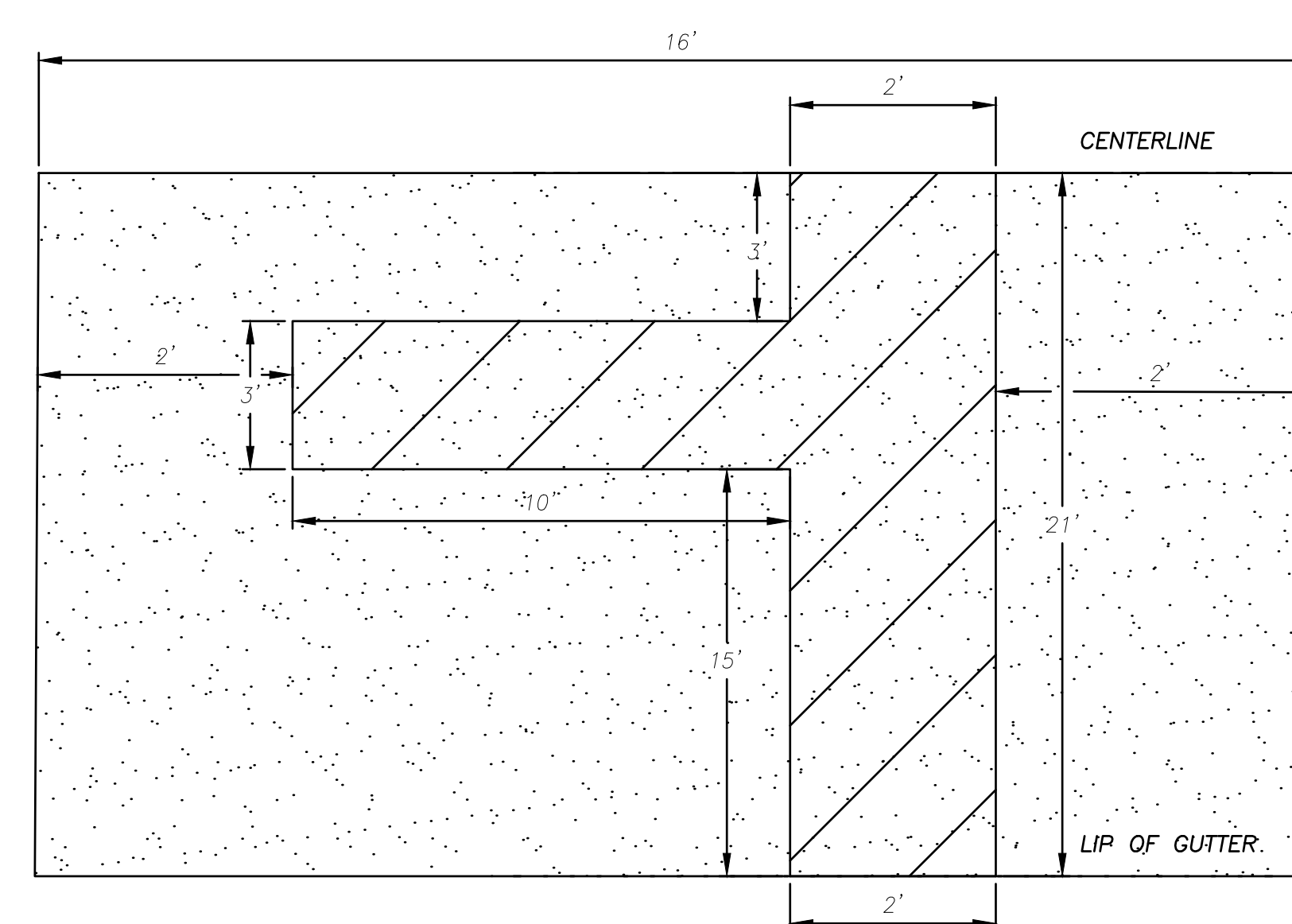
TRENCH #6 DIMENSIONS

NOT TO SCALE



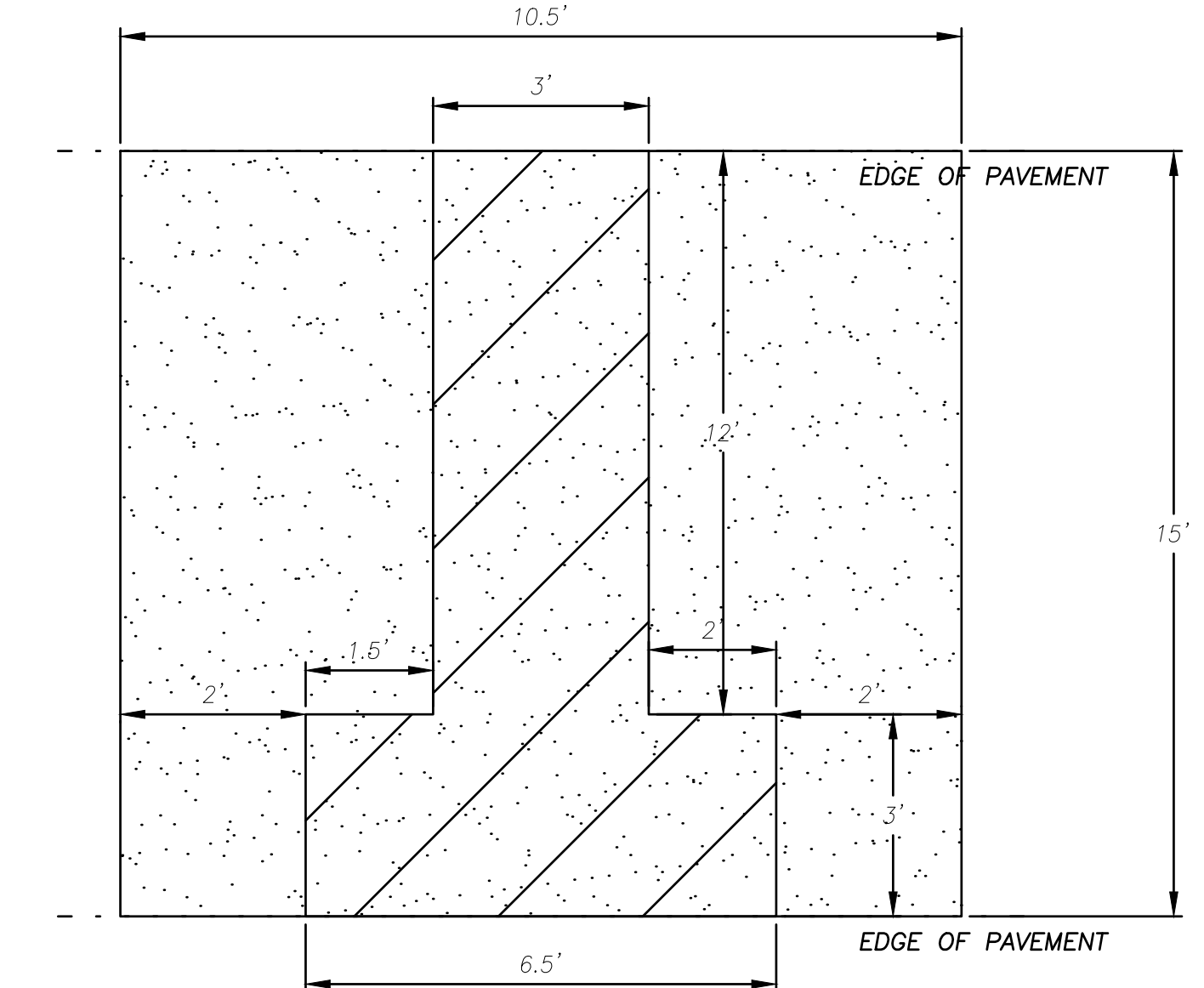
TRENCH #8 DIMENSIONS

NOT TO SCALE



TRENCH #9 DIMENSIONS

NOT TO SCALE



TRENCH #10 DIMENSIONS

NOT TO SCALE



GRIND AND PLACE HMA OVERLAY

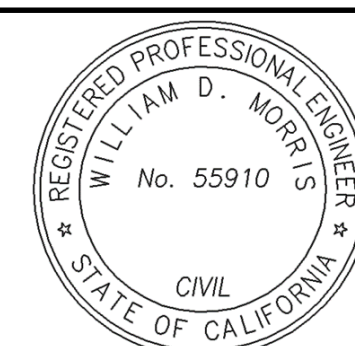
TRENCH AREA



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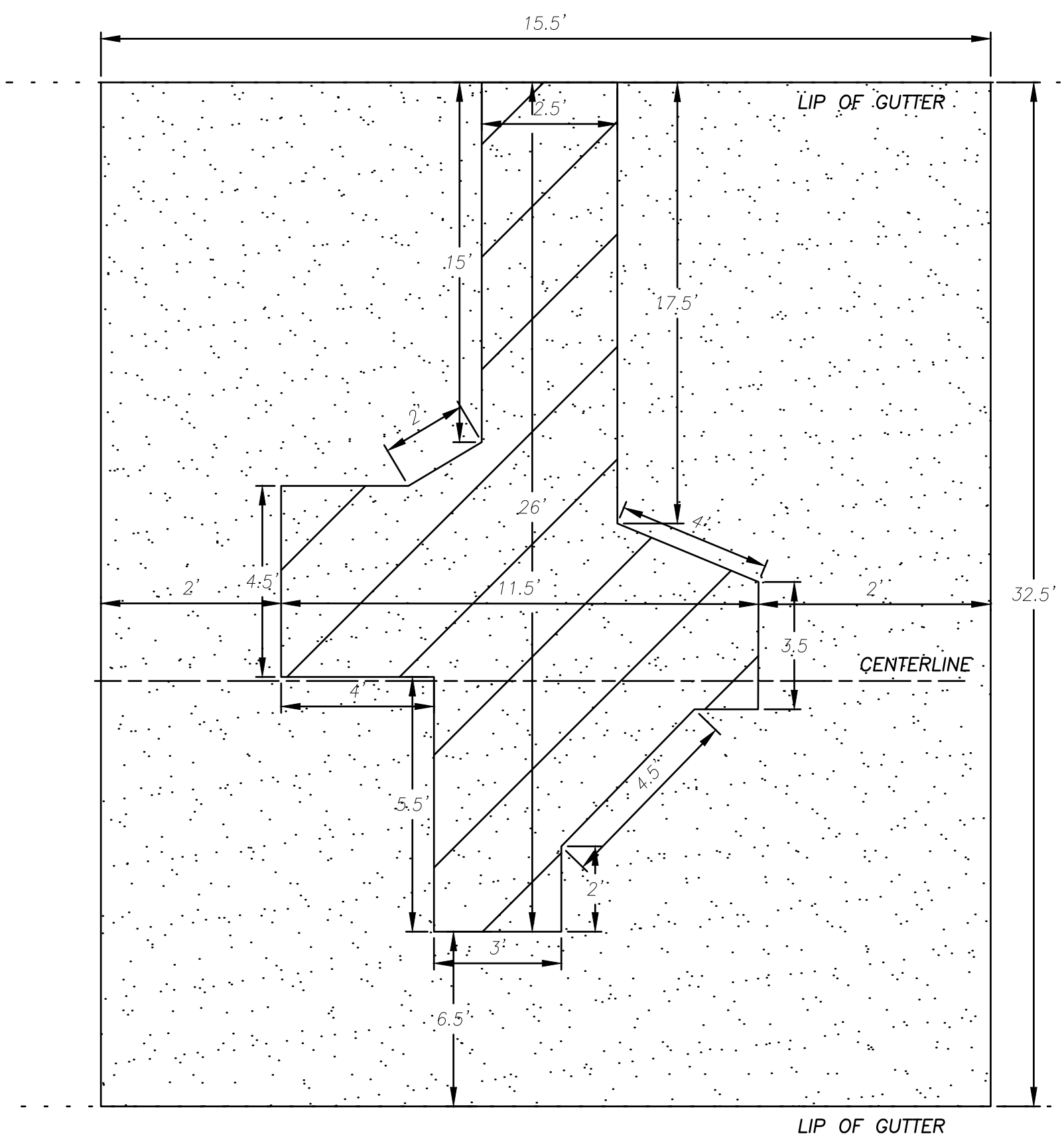
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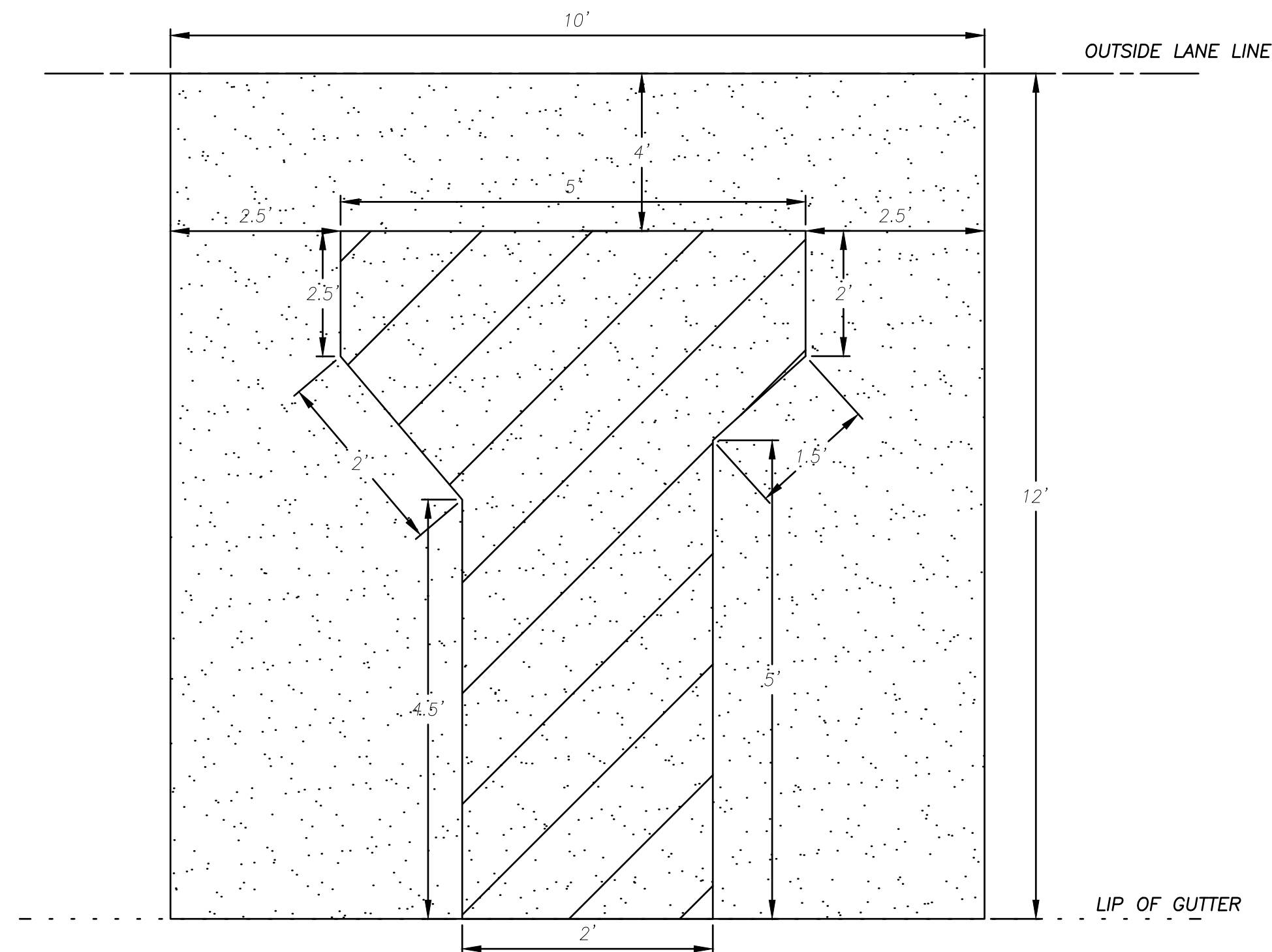
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SHEET  
03  
OF 05



TRENCH #11 DIMENSIONS

NOT TO SCALE



TRENCH #12 DIMENSIONS

NOT TO SCALE



- GRIND AND PLACE HMA OVERLAY
- TRENCH AREA



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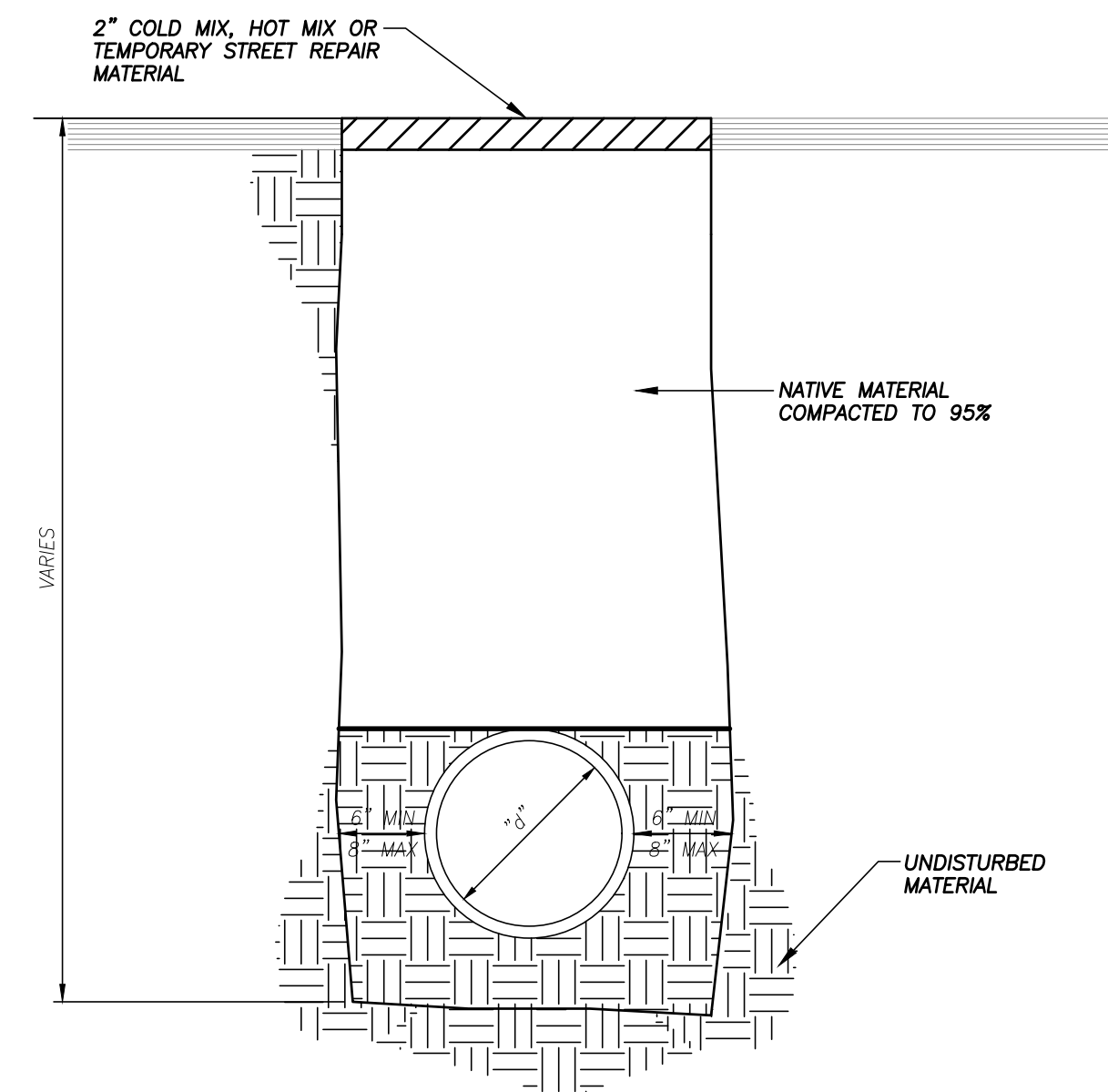
CITY OF TURLOCK  
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156 S. BROADWAY, STE 150  
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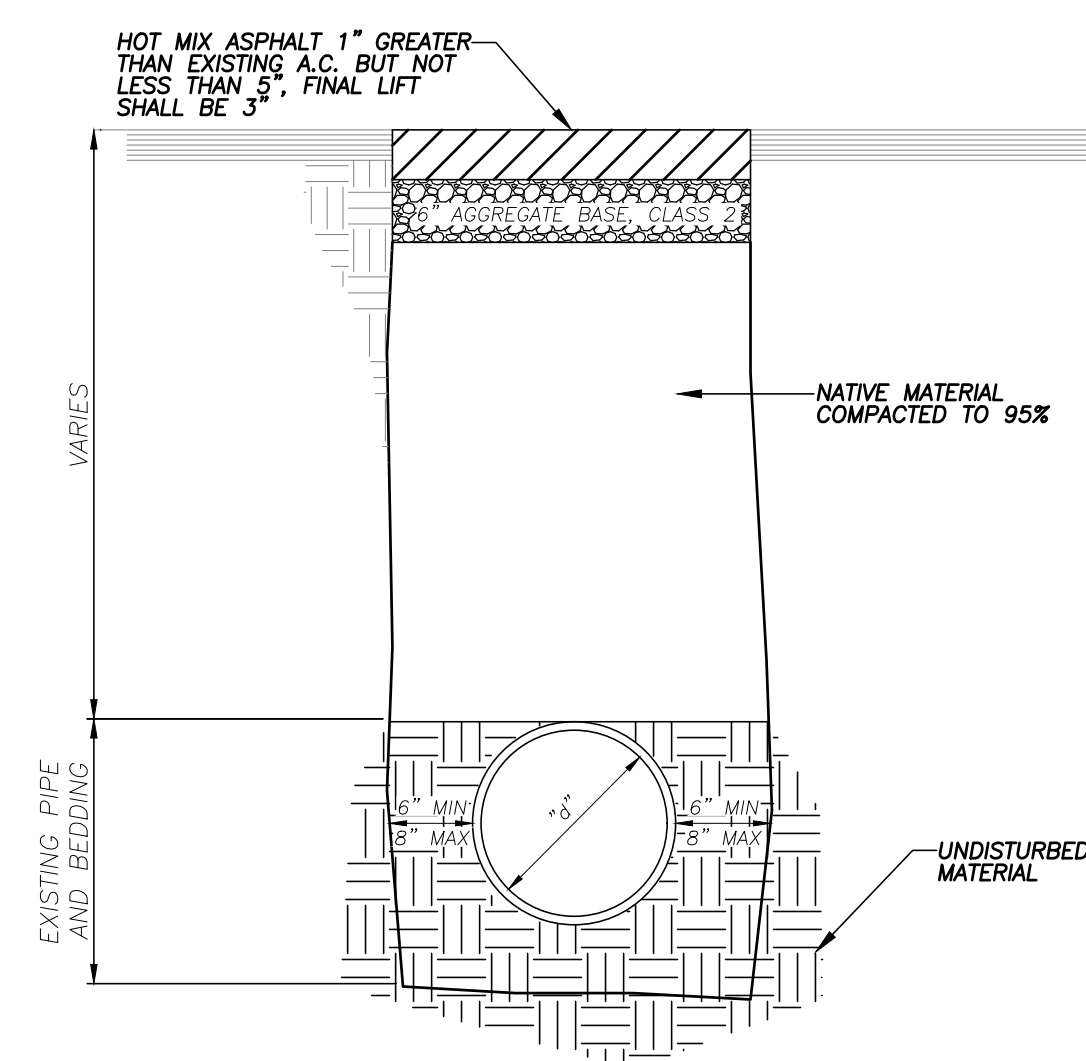
SHEET  
04  
OF 05



- NOTES:
1. COMPACTION TESTS SHALL BE APPROVED BY THE CITY BEFORE PAVING.
  2. TRENCHES 5 FEET OR MORE IN DEPTH SHALL BE SHORED.
  3. MAXIMUM LIFT THICKNESS FOR BEDDING AND BACKFILL SHALL BE 12" BEFORE COMPACTION.
  4. TRENCHES WHICH ARE LESS THAN 30" IN DEPTH OR LESS THAN 18" IN WIDTH SHALL BE BACKFILLED WITH TWO SACK CEMENT SLURRY.
  5. ALL STEPS OF TRENCHING SHALL BE REPEATED WHEN REPAIRING A SECTION OF PIPE.

**3 STEP TRENCH REPAIR – STEP 1  
(MODIFIED CITY STANDARD DETAIL T-1)**

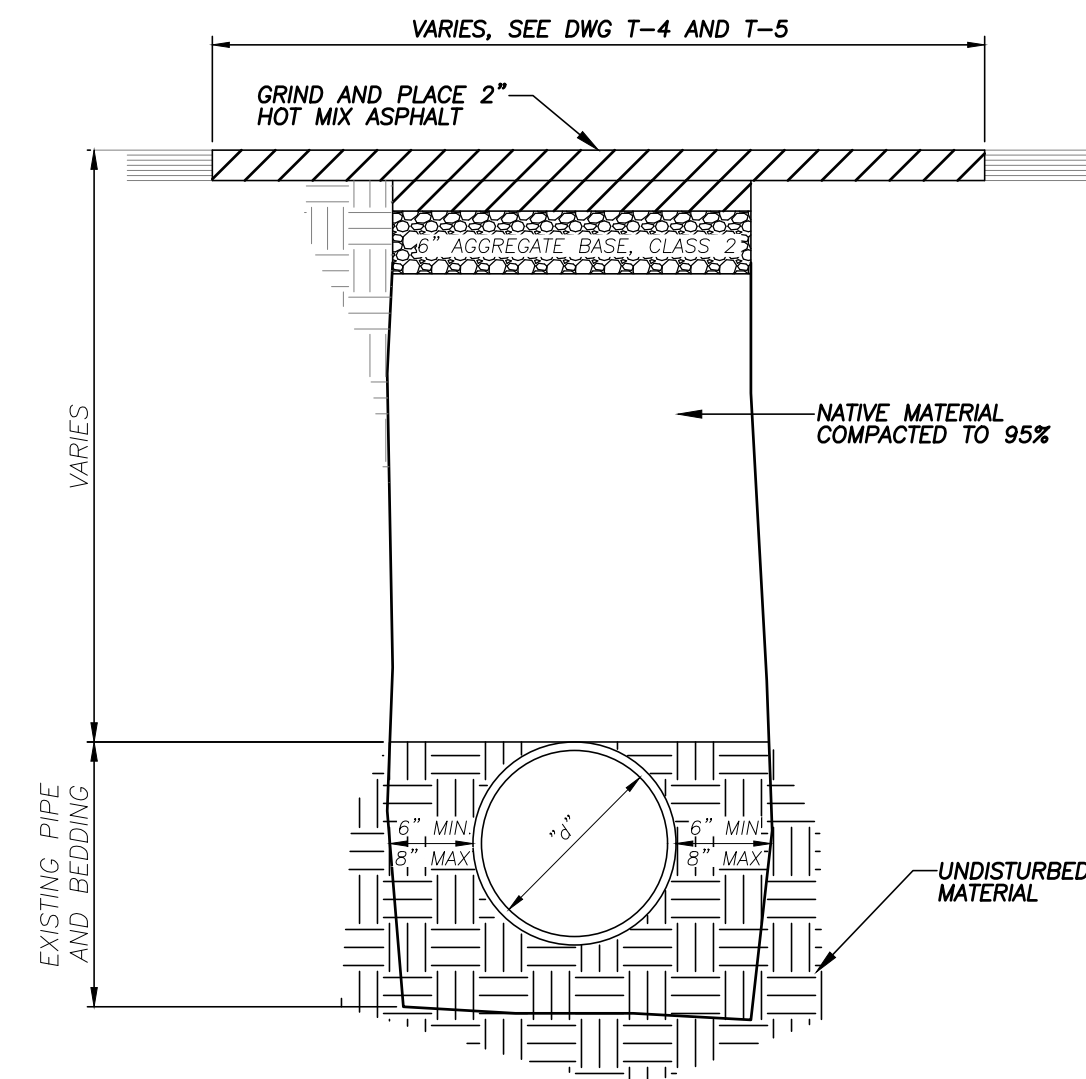
NOT TO SCALE



- NOTES:
1. DWG NO. T-1 MAY BE OMITTED IF DWG NO. T-2 IS PERFORMED ON THE SAME DAY AS THE TRENCH EXCAVATION.
  2. COMPACTION TESTS SHALL BE APPROVED BY THE CITY BEFORE PAVING.
  3. TRENCHES 5 FEET OR MORE IN DEPTH SHALL BE SHORED.
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  5. TRENCHES WHICH ARE LESS THAN 30" IN DEPTH OR LESS THAN 18" IN WIDTH SHALL BE BACKFILLED WITH TWO SACK CEMENT SLURRY.
  6. ALL STEPS OF TRENCHING SHALL BE REPEATED WHEN REPAIRING A SECTION OF PIPE.
  7. HMA SHALL BE PG 64-10, TYPE A

**3 STEP TRENCH REPAIR – STEP 2  
(MODIFIED CITY STANDARD DETAIL T-2)**

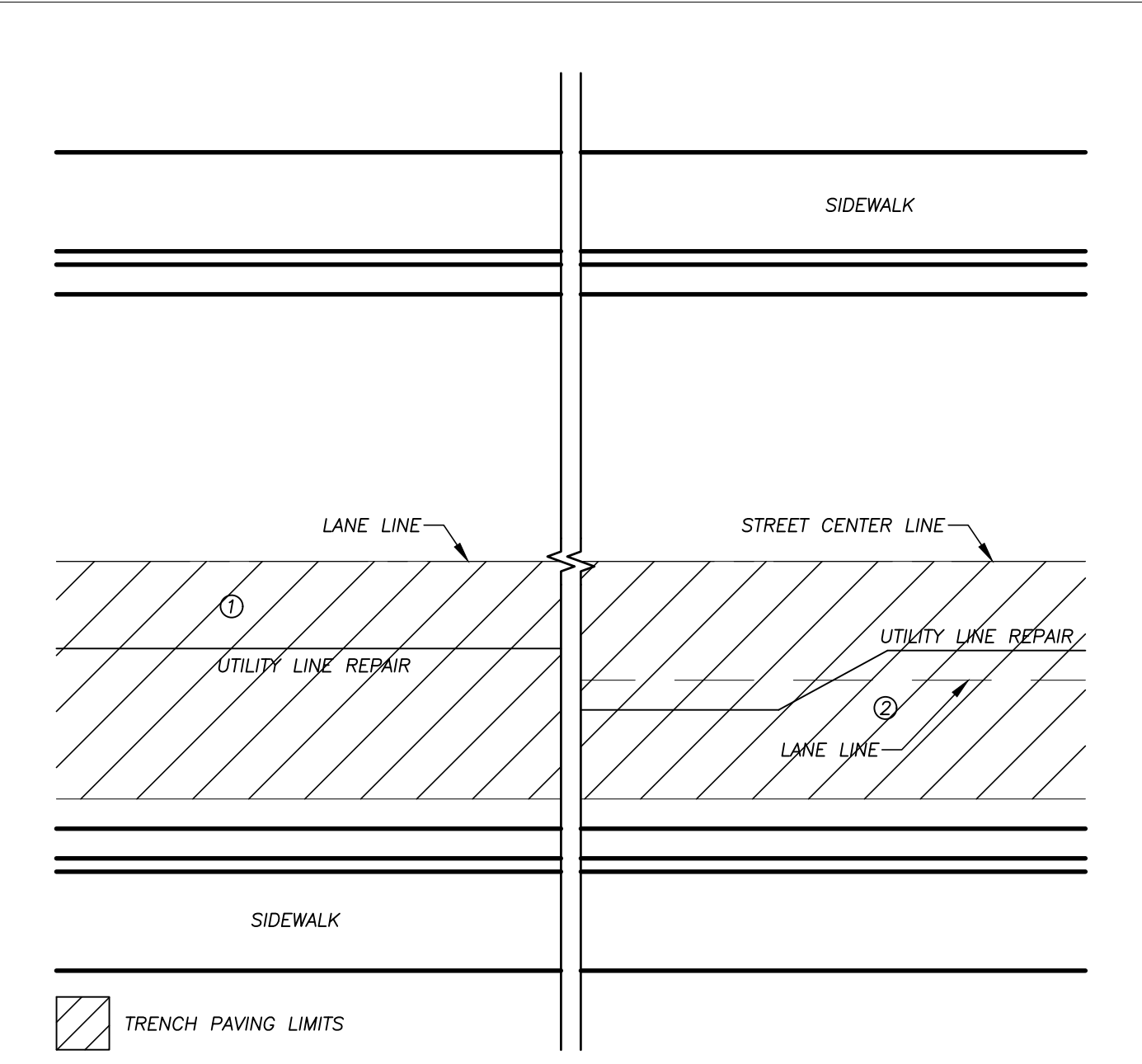
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**3 STEP TRENCH REPAIR – STEP 3  
(MODIFIED CITY STANDARD DETAIL T-3)**

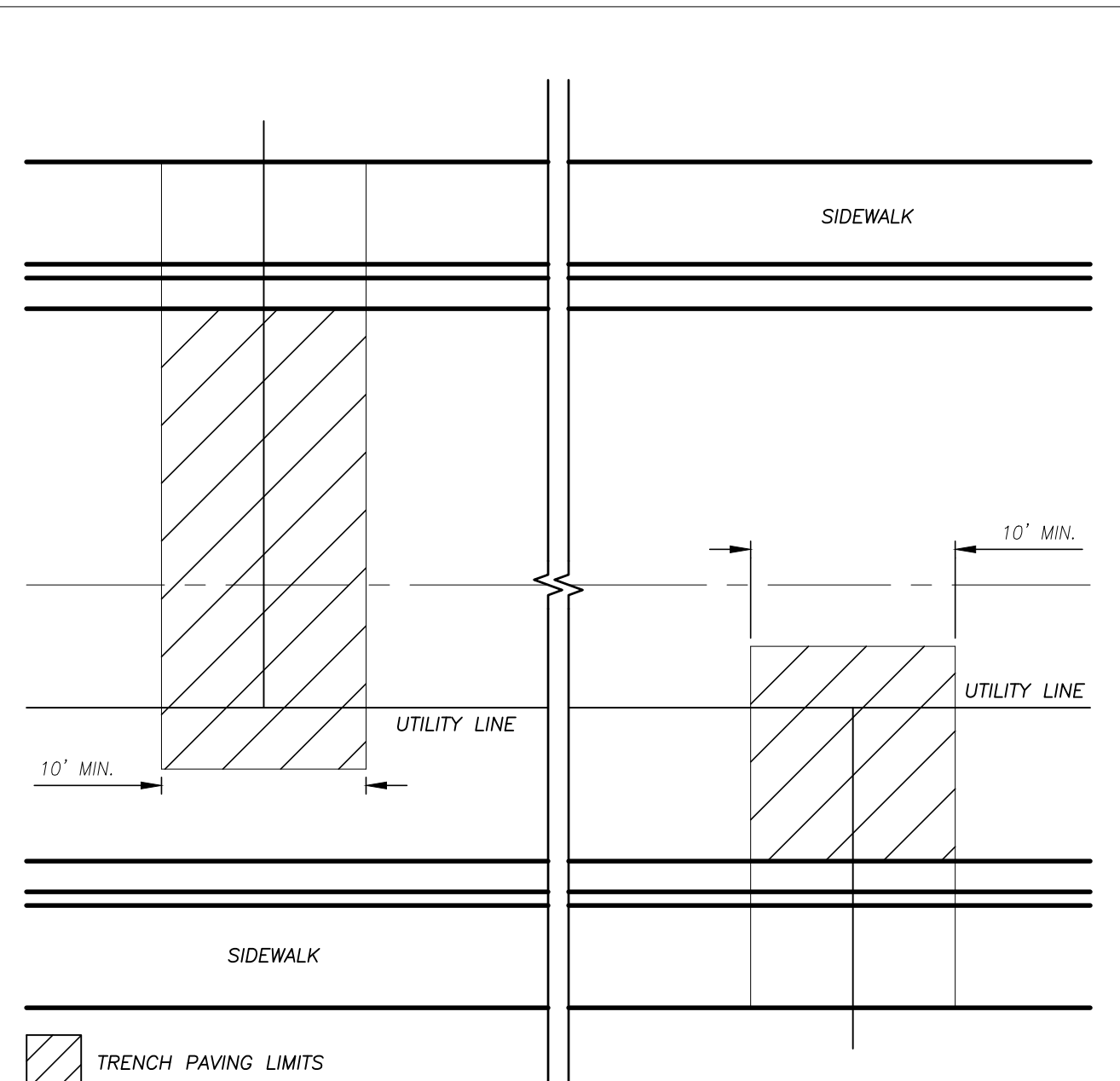
NOT TO SCALE



- NOTES:
1. GRINDING AND FINAL PAVING WIDTH SHALL BE TO THE EXTENT OF AFFECTED LANE LINES, 12' MIN.
  2. IF TRENCH CROSSES LANE LINES, GRINDING AND FINAL PAVING WIDTH SHALL BE TO THE EXTENT OF ALL AFFECTED LANE LINES FOR ENTIRE LENGTH OF TRENCH

**LONGITUDINAL TRENCH PATCH LIMITS**

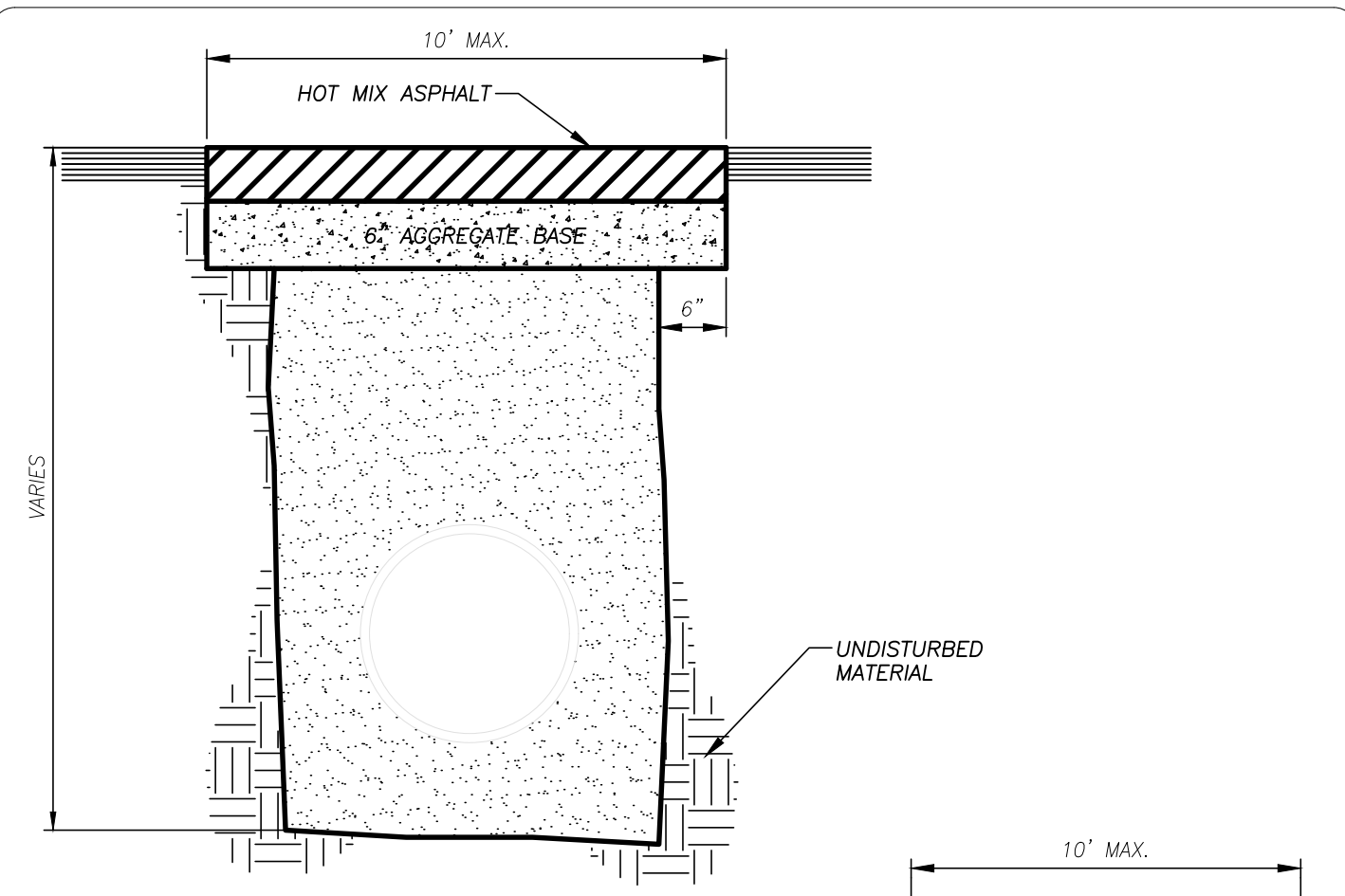
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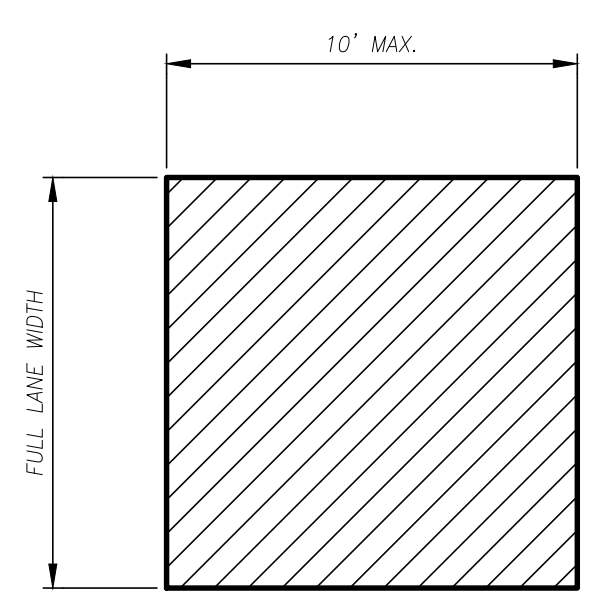
- NOTES:
1. GRINDING AND PAVING WIDTH SHALL BE 10' MIN.
  2. ALL CUTS SHALL BE SQUARE AND PERPENDICULAR TO THE TRAVEL LANE

**PERPENDICULAR TRENCH PATCH LIMITS**

	DRAWN BY: JSH	<b>CITY OF TURLOCK</b> APPROVED BY: <i>NBB</i> INTERIM CITY ENGINEER – NATHAN B. BRAY – RCE 76642	DRAWING NO.
	CHECK BY: NBB		<b>T-5</b>
	SCALE: NONE		COUNCIL APPROVAL <b>FEB, 2019</b>



PROFILE



PLAN

- NOTES:
1. HMA SHALL BE 1" GREATER THAN EXISTING, 5" MIN.
  2. LIFT THICKNESS SHALL BE 2" TO 3"
  3. HMA SHALL BE PG 64-10, TYPE A
  4. FINAL LIFT SHALL BE COMPACTED WITH A VIBRATORY ROLLER

**BELL HOLE PATCH**

	DRAWN BY: JSH	<b>CITY OF TURLOCK</b> APPROVED BY: <i>NBB</i> INTERIM CITY ENGINEER – NATHAN B. BRAY – RCE 76642	DRAWING NO.
	CHECK BY: NBB		<b>T-6</b>
	SCALE: NONE		COUNCIL APPROVAL <b>FEB, 2019</b>



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CITY UTILITY TRENCH REPAIR – 2024

VERIFY SCALE  
BAR IS 1" ON ORIGINAL DRAWING  
0 1/4" 3/4" 1" 1/2"  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DRAWN BY: OM  
REV. BY: SRF  
CH. BY: SRF  
DATE: JULY 12, 2024  
SCALE: NOT TO SCALE  
23-058 DRAWINGS.DWG

SHEET  
**05**  
OF 05