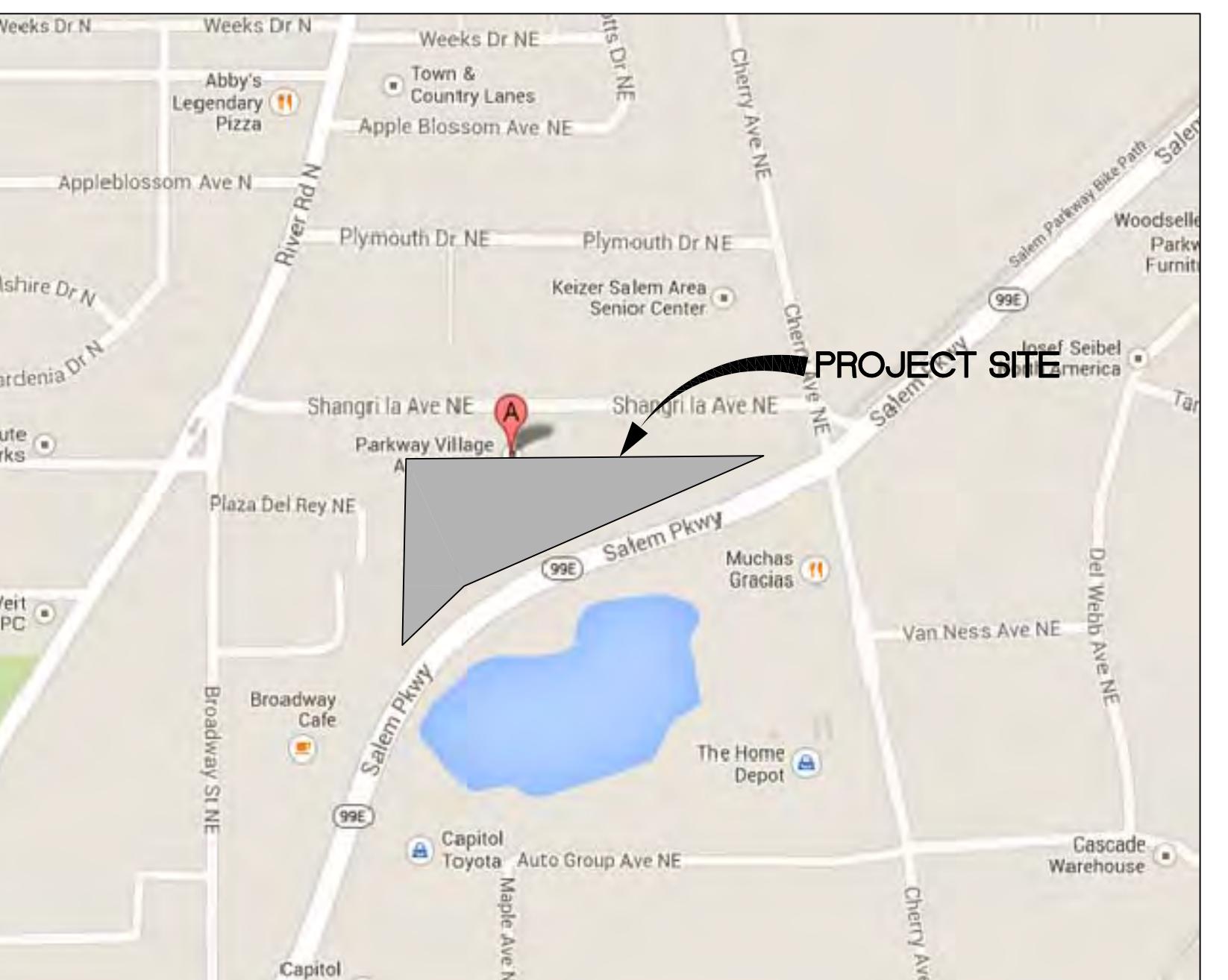




CARLETON HART ARCHITECTURE
322 NW 8th Avenue Portland, Oregon 97209
t 503.243.2252 | f 503.243.3261 | carletonhart.com

PARKWAY VILLAGE : EAST
SITE REPAIRS
SALEM HOUSING AUTHORITY

PERMIT REVIEW/BID SET



VICINITY MAP
SCALE: NTS

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF SALEM STANDARD CONSTRUCTION SPECIFICATIONS AND ANY SPECIAL PROVISIONS INCLUDED AS PART OF THE APPROVED PLANS.
- ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS 503-232-1987.

SURVEYOR

MULTI/TECH ENGINEERING SERVICES, INC.
1155 13TH ST.
SALEM, OR 97302
(503) 363-9227
CONTACT: ROBERT HAMMAN

SURVEY

SURVEY PROVIDED BY MULTI/TECH ENGINEERING SERVICES, INC.
DATED JUNE 2010. ALL ELEVATIONS ARE BASED UPON THE CITY OF SALEM
CONTROL MONUMENT NO. 1088 BRASS DISK IN A CONCRETE POST AT THE
INTERSECTION OF 4TH STREET AND LOCUST STREET.
ELEVATION IS 148.23, NGVD 47.

ARCHITECT/ENGINEER

ARCHITECT:
CARLETON HART ARCHITECTURE
322 NW 8TH AVE.
PORTLAND, OR 97209
(503)206-3185
CONTACT: DEVIN FOLLINGSTAD

ENGINEER:
MGH ASSOCIATES, INC.
104 W. 9TH STREET, SUITE 207
VANCOUVER, WA 98660
(360)718-9500
CONTACT: WILLIAM BRANNAN, PE

LEGEND

<u>EXISTING</u>	<u>PROPOSED</u>	<u>DESCRIPTION</u>
D		MANHOLE
		CATCH BASIN
O		DRYWELL
○		CLEAN OUT
●		FIRE HYDRANT
◆		FIRE DEPARTMENT CONNECTION
□		WATER VAULT
□		WATER METER
×		WATER VALVE
⊕		LIGHT POLE
⊖		POWER POLE
□		ANCHOR POLE
□		LIGHTING PULL BOX
GV		GAS VALVE
		SIGN
		TREE
— - -		PROPERTY LINE
— - -		CENTERLINE
— - -		CONTOUR
— - -		SAWCUT LINE
— - -		EDGE OF PAVEMENT
— - -		CURB
— X — SD		STORM DRAIN
— X — SS		SANITARY SEWER
— X — W		PUBLIC WATER (BY CITY)
— X — W		PRIVATE WATER
— OH —		OVERHEAD UTILITIES
— G —		GAS
— X —		FENCE

ABBREVIATIONS

BS	BOTTOM OF STAIR	MIN.	MINIMUM
COS	CITY OF SALEM	N:	NORTHING
COTG	CLEAN OUT TO GRADE	NO.	NUMBER
CT	CURB TAPER	NTS	NOT TO SCALE
DS	DOWNSPOUT	ROW	RIGHT-OF-WAY
RD	ROOF DRAIN	S=	SLOPE EQUALS
E:	EASTING	SD	STORM DRAIN
(E)	EXISTING	SS	SANITARY SEWER
EX.	EXISTING	STD.	STANDARD
F	FIRE	TC	TOP OF CURB
FF	FINISHED FLOOR	TP	TOP OF PAVEMENT
H	HEIGHT	TS	TOP OF STAIR
IE	INVERT ELEVATION	MOW	MOW STRIP
LF	LINEAL FEET	TYP.	TYPICAL
MAX.	MAXIMUM	W	WATER

SHEET INDEX

C5.0	PUBLIC WORKS COVER SHEET
C5.1	PUBLIC WORKS UTILITY PLAN
C5.2	PUBLIC WORKS DETAILS

PUBLIC WORKS
COVER SHEET

PROJ NO.
21348

01.10.2014



SHANGRI-LA STREET

CARLETON HART ARCHITECTURE
322 nw 8th avenue portland, oregon 97209
t 503 243 2252 | f 503 243 3261 | carletonhart.com

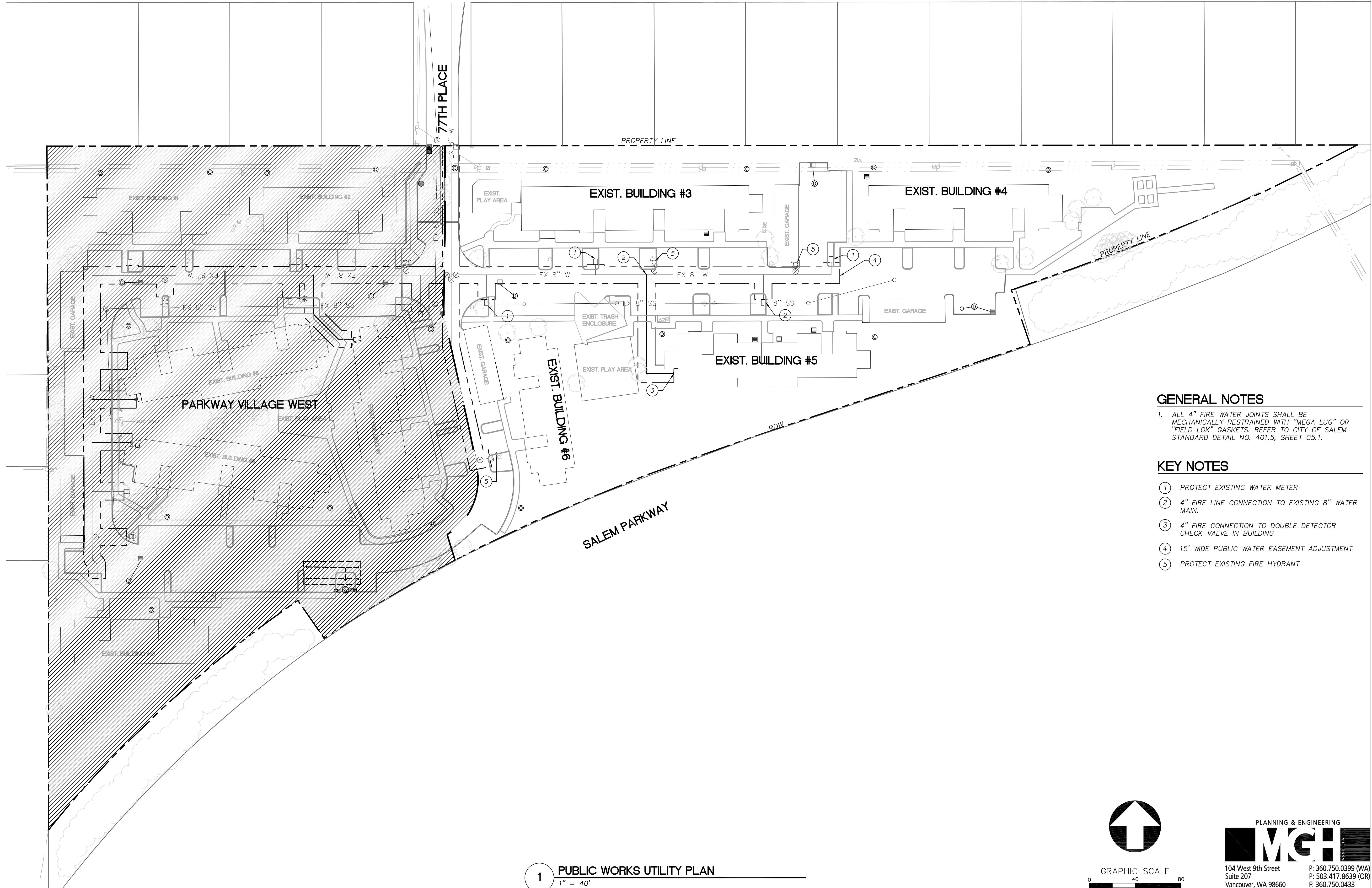
PARKWAY VILLAGE : EAST SITE REPAIRS SALEM HOUSING AUTHORITY

PUBLIC WORKS UTILITY PLAN

PROJ NO.
21348

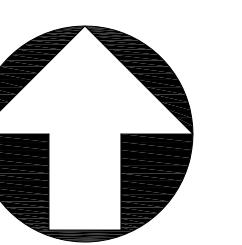
01.10.2014

C5.1



PUBLIC WORKS UTILITY PLAN

A graphic scale diagram with a horizontal axis. The axis has tick marks at 0, 40, and 80. A thick black bar spans from the 0 mark to the 80 mark. Below the axis, the text "1 inch = 40 ft." is written.





LENGTH (L1) OF PIPE REQUIRED FOR RESTRAINT (FEET)										
Diameter	Horizontal Bend				Dead End	Reducer (Restrained Length for Large Diameter Side)				
	90°	45°	221/2°	111/4°		4"	6"	8"	10"	12"
4"	30	23	20	19	44	--	37	53	65	77
6"	35	25	21	20	55	--	--	38	53	67
8"	40	27	22	20	66	--	--	--	37	54
10"	44	29	23	21	76	--	--	--	--	51
12"	49	31	24	21	86	--	--	--	--	--

BEND
90°, 45°, 221/2°, 111/4°

DEAD END

REDUCER

BRANCH

TEE CONFIGURATION

L_R is the minimum length in either direction from tee to nearest adjacent joint

NOTES:

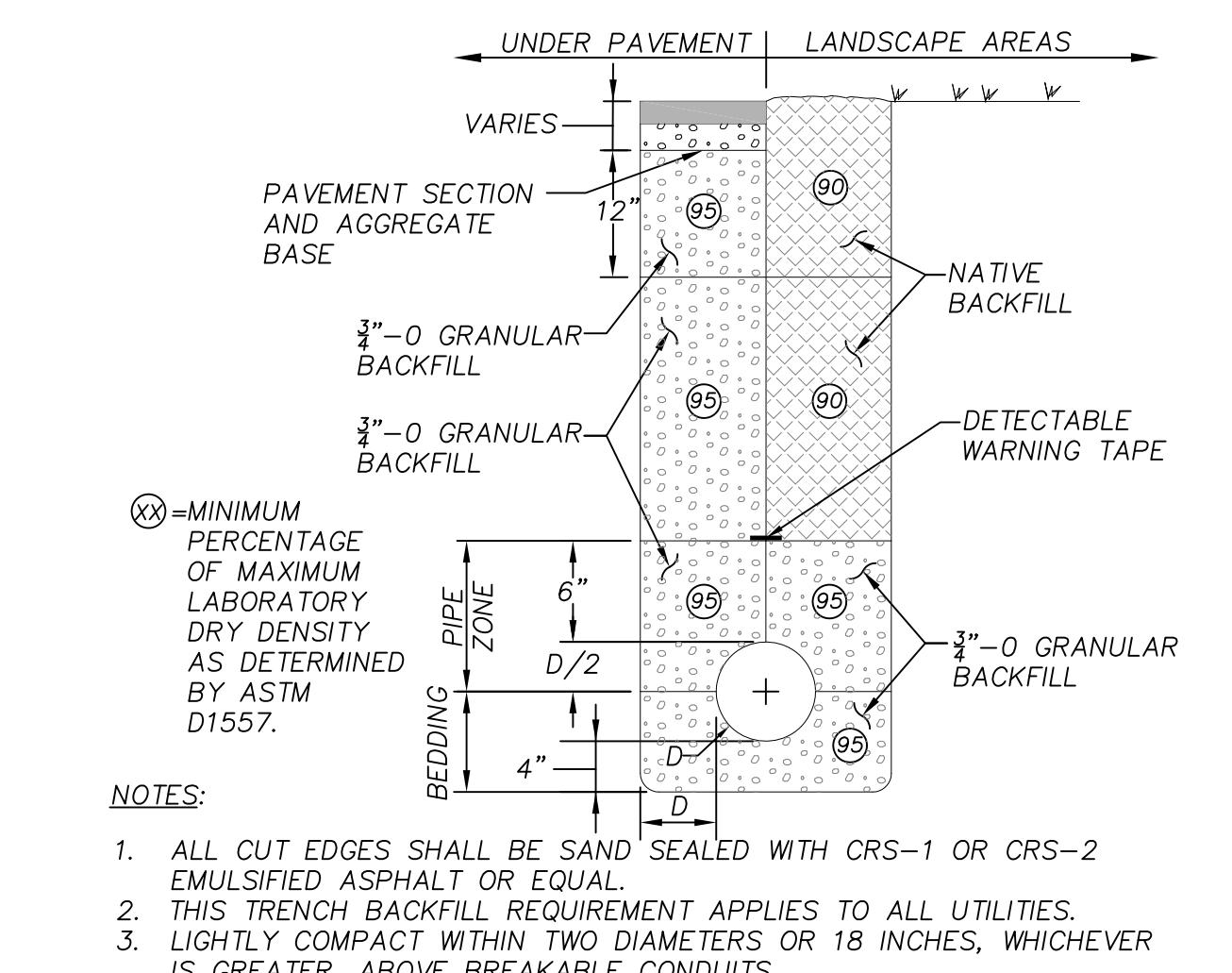
- ALL JOINTS WITHIN THE LENGTH "L1" FROM THE ABOVE TABLE, SHALL BE RESTRAINED.
- THE JOINT RESTRAINT LENGTHS CALCULATED ARE FOR FITTINGS USED TO CHANGE PIPE HORIZONTAL ALIGNMENT ONLY. FOR APPLICATIONS WHERE FITTINGS ARE USED TO CHANGE THE SLOPE OF THE PIPE, THE DESIGN ENGINEER SHALL INCLUDE THE JOINT RESTRAINT REQUIREMENTS ON THE PROJECT DRAWINGS.
- IF AN UNPREDICTED NEED FOR JOINT RESTRAINT ARISES TO CHANGE THE SLOPE OF THE PIPE, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER OR UTILIZE ANCHORS IN ACCORDANCE WITH STANDARD DRAWING NO. 402.
- JOINT TYPES NOT COVERED ON ABOVE TABLE MUST BE DESIGNED INDIVIDUALLY IN ORDER TO DETERMINE APPROPRIATE RESTRAINED LENGTH. THIS LENGTH SHALL BE SHOWN ON THE PROJECT DRAWINGS.
- THE SMALL DIAMETER SIDE OF A REDUCER DOES NOT REQUIRE RESTRAINT IF THE LARGE DIAMETER SIDE IS PROPERLY RESTRAINED.
- ABOVE RESTRAINED LENGTHS ARE BASED ON:
 - TEST PRESSURE OF 150 POUNDS PER SQUARE INCH
 - MINIMUM OF 3 FEET COVER
 - CLASS B PIPE ZONE CONDITIONS
 - WHEN ORGANIC OR CLAY TYPE SOILS ARE BEING USED FOR BACKFILL, GRANULAR BACKFILL MUST BE USED FOR BEDDING AND BACKFILL TO A HEIGHT OF 6 INCHES OVER THE TOP OF THE PIPE BEFORE OTHER SOILS ARE PLACED.
 - UNCOATED PIPE, THIS TABLE IS NOT APPLICABLE FOR PIPE ENCASED IN POLYETHYLENE
 ANY REDUCTION OF THESE VALUES AS A RESULT OF OTHER CONDITIONS ENCOUNTERED SHALL BE BASED ON THE APPROPRIATE EVALUATION AND RECOMMENDATION BY A QUALIFIED, REGISTERED ENGINEER AND WITH APPROVAL BY THE CITY.

Approved *Karl O. Kibler* Date 2-1-00
City Engineer

CITY OF SALEM
DEPARTMENT OF PUBLIC WORKS
STANDARD PLAN
JOINT RESTRAINT

No.	Description	Date	By	Appr.
REVISION				

DRAWN BY: TAL NO. 401.5
CHECKED BY: KW



1 TRENCH BACKFILL
NTS

