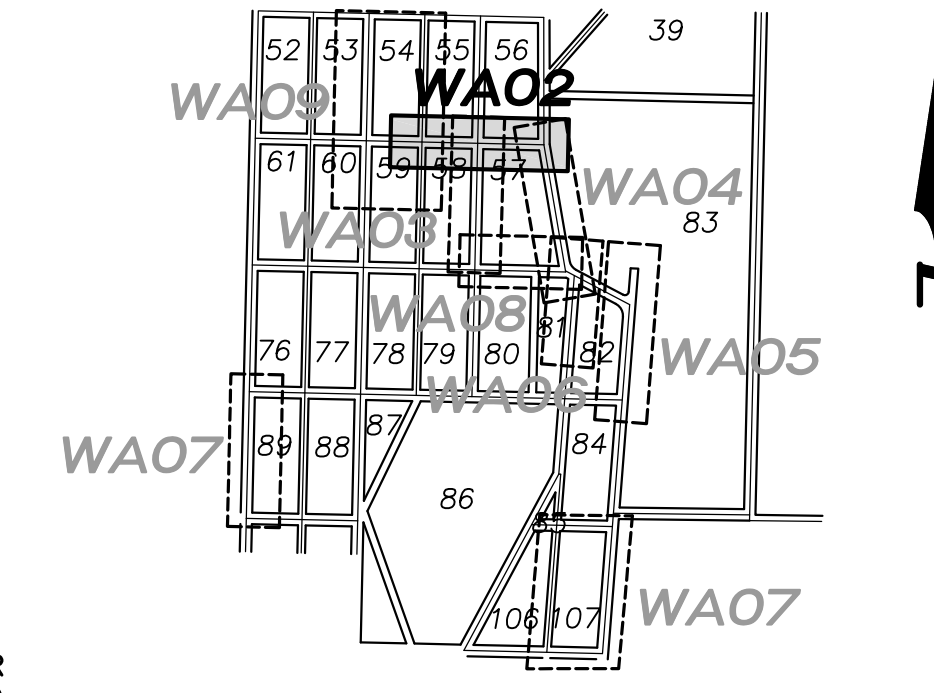
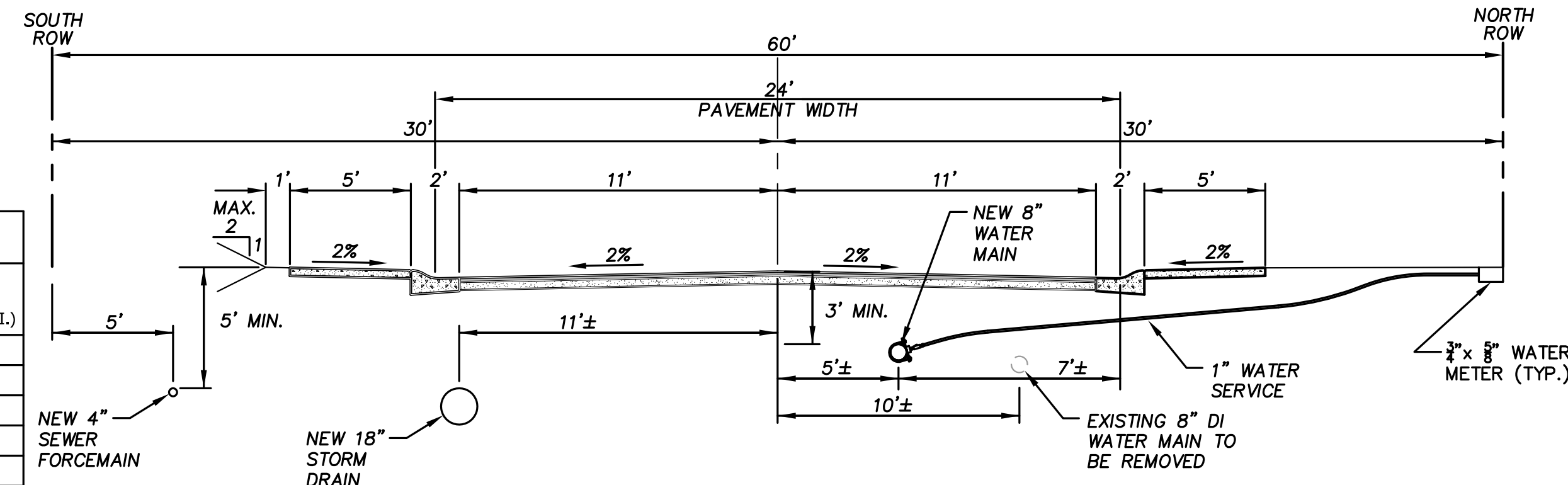


N.W. 1/4, SEC. 26, T. 21 N., R. 4 E., W.M.

- 1 SEE SHEET WA03 MATCH POINT
- 14 SEE SHEET WA04 MATCH POINT
- 14A CUT IN CONNECT TO EX. 8" D.I. WATER REMOVE EX. 8" 90° BEND 20LF 8" D.I.P. EAST TO NEXT FITTING 1 - 8" ADAPTER

BLOCKS 55 AND 56 (PRESSURE ZONE 578, MAX. HEAD 577, MIN. HEAD 557)				
LOT NO.	LOWEST FIXTURE ELEV. (FT.)	HIGHEST FIXTURE ELEV. (FT.)	ESTIMATED MIN. STATIC PRESSURE (PSI.)	ESTIMATED MAX. STATIC PRESSURE (PSI.)
74	429.00'	444.00'	49	64
76	429.00'	444.00'	49	64
76	429.00'	444.00'	49	64
77	429.00'	444.00'	49	64
78	431.00'	446.00'	48	63



LAKEHAVEN UTILITY DISTRICT

Water Plan _____ Sewer Plan _____

Dated _____

APPROVED FOR CONSTRUCTION
SUBJECT TO CHANGES NOTED

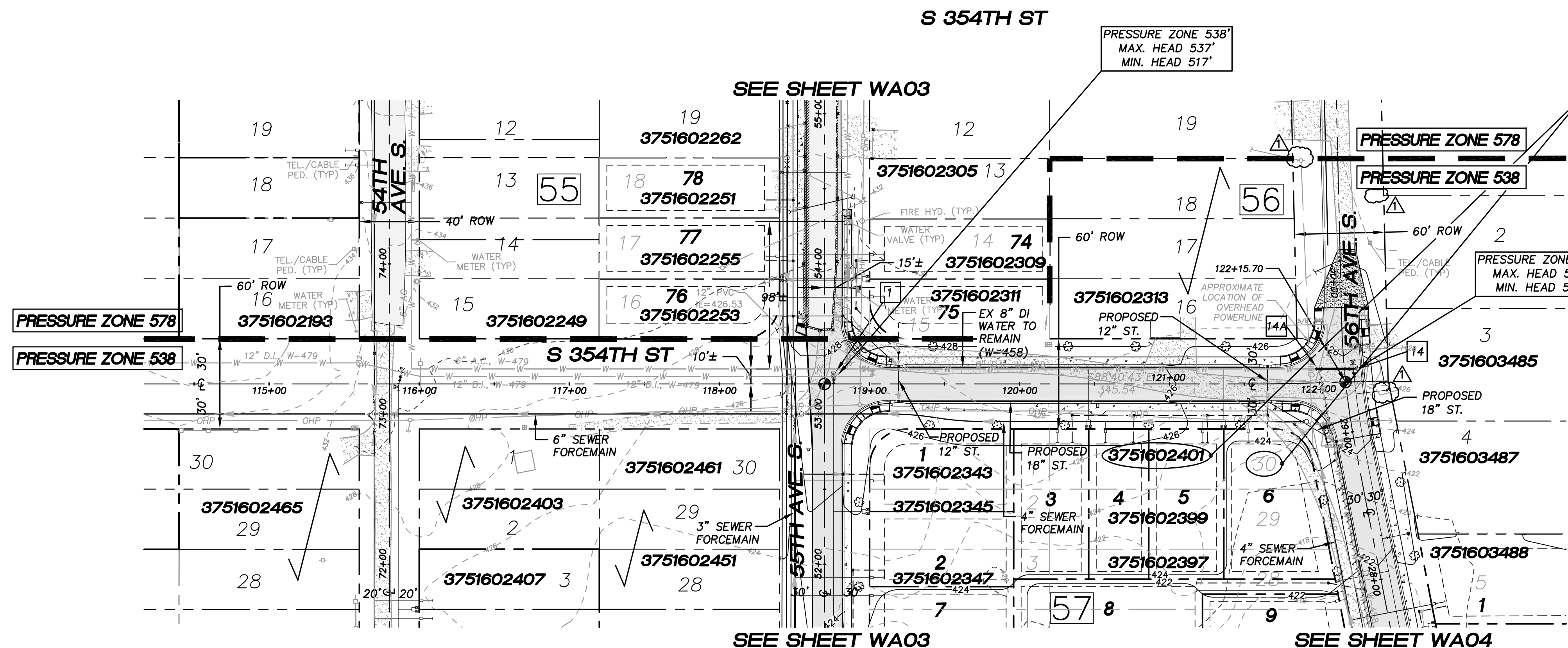
The District's review is not a check of any dimension or quantities and will not relieve the Developer from responsibility for errors of any sort. No changes shall be made in the plans except by the consent of the District.

General Manager/District Engineer _____ Date _____

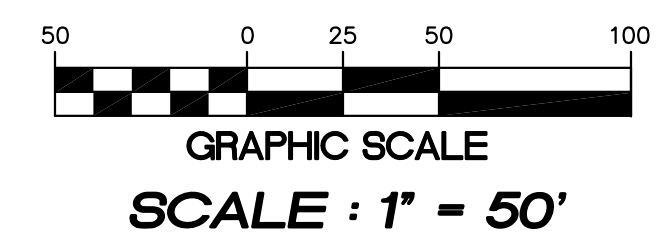
This construction plan will expire one year from plan approval date, if construction has not commenced.

VERTICAL DATUM :
NAVD 88

BENCH MARK :
KING COUNTY SURVEY CONTROL POINT No. 6905,
SW CORNER OF SECTION 27, T. 24 N., R. 4 E., W.M.,
CONCRETE MONUMENT WITH LEAD AND BRASS TACK,
SET 1.2 FEET BELOW GRADE, IN STANDARD KC MON. CASE.
ELEVATION = 367.06



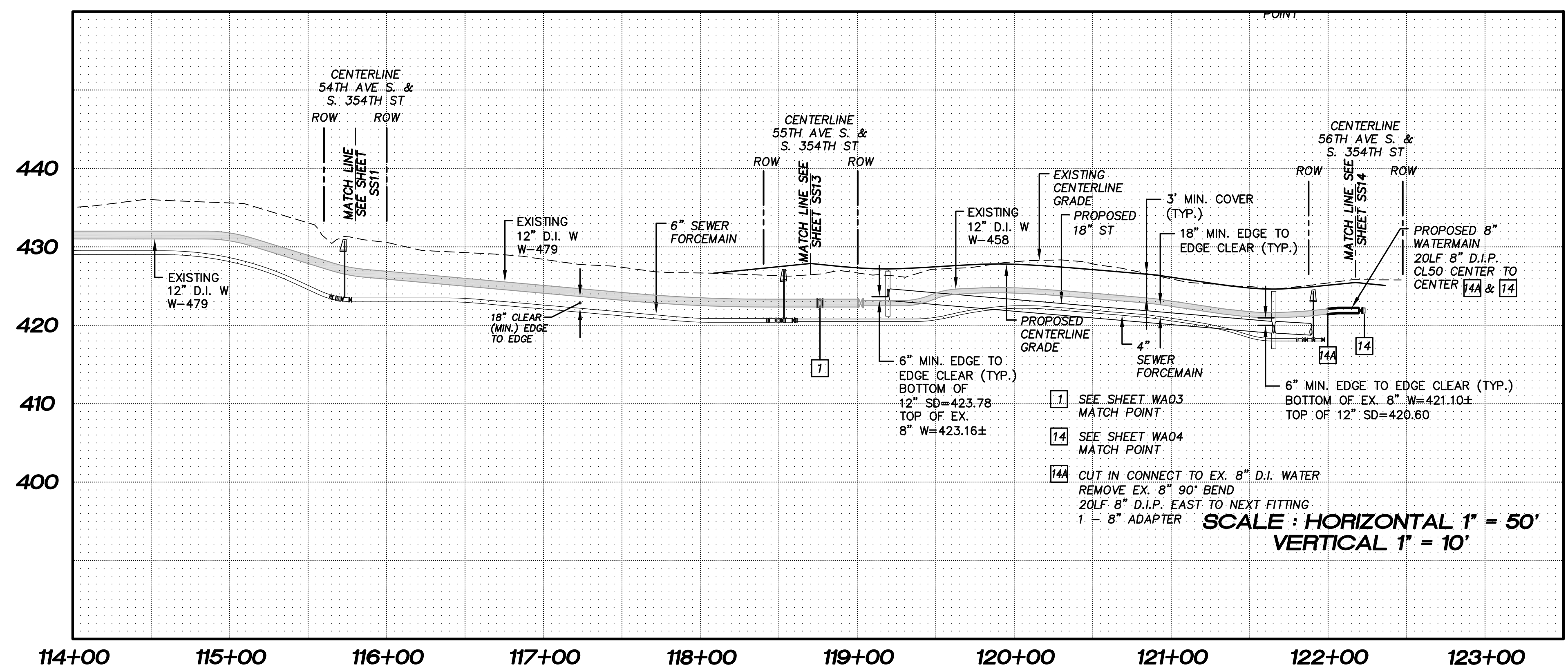
NOTE :
EXISTING PARCEL NUMBERS AND LOT NUMBERS WILL BE UPDATED AFTER BOUNDARY LINE ADJUSTMENTS ARE RECORDED.



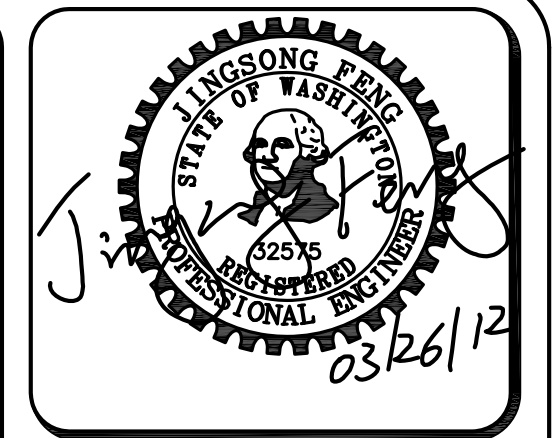
LEGEND

- EX. ASPHALT PAVEMENT
- EX. GRAVEL PAVEMENT
- 6" A.C. EX. WATER MAIN
- NEW ASPHALT PAVEMENT
- NEW CONC. SIDEWALK
- 8" D.I. NEW WATER MAIN
- NEW GATE VALVE
- NEW F.H. ASSEMBLY
- NEW WATER BENCH W/ CONC. BLOCKING
- NEW WATER TEE W/ CONC. BLOCKING
- NEW WATER METER
- 428- EX. CONTOUR
- 406- FINISHED CONTOUR
- 57 BLOCK NUMBER

- NOTE :**
- ALL SEWER FORCEMAIN PIPES ARE DR-11 HDPE PIPES. THE SEWER FORCEMAIN SHALL HAVE 10' MINIMUM HORIZONTAL CLEARANCE BETWEEN WATERMAIN. WHEN CROSSING WITH WATERMAIN, THE SEWER FORCEMAIN SHALL CROSS UNDER AND KEEP MINIMUM 18" VERTICAL CLEARANCE FROM THE WATERMAIN. IF THE EXISTING WATERMAIN IS AC PIPE, IT SHALL BE REPLACED WITH SAME SIZE DUCTILE IRON PIPE 10 FEET EACH SIDE OF SEWER CROSSING BUT NO LESS THAN 2 FEET INTO BOTH TRENCH WALLS (NO CDF CRADLE ALLOWED).
 - WATERMANS DEPICTED IN PROFILE VIEW TO HAVE MINIMUM 3' COVER. WATERMAIN VALVE OPERATING NUT TO HAVE 12" COVER.
 - LOCATIONS OF EXISTING UTILITIES ARE BASED ON FIELD SURVEY DATA. POTHOLE/RESEARCH EXISTING WATERMAIN AND OTHER UTILITIES BEFORE CONSTRUCTION.
 - ALL NEW WATERMANS ARE DUCTILE IRON PIPES WITH MINIMUM CLASS 50.
 - ALL NEW SERVICES TO INDIVIDUAL LOTS ARE 1" (SERVICE & METER) W/ 3/4" x 3/4" REDUCER BUSHINGS. ALL WATER METERS TO BE INSTALLED BY LAKEHAVEN FOLLOWING COMPLETION OF NEW WATERMAIN CONSTRUCTION. UNDER SEPARATE APPLICATIONS. ANY WATER SERVICE CONNECTIONS PROPOSED FROM EXISTING WATERMAIN SHALL BE ENTIRELY INSTALLED BY LAKEHAVEN. DEVELOPER SHOULD SUBMIT APPLICATIONS FOR THESE 'FULL' SERVICE INSTALLATIONS TO LAKEHAVEN AT THE COMMENCEMENT OF CONSTRUCTION.
 - THE MINIMUM SEPARATION BETWEEN (PARALLEL PIPELINES) WATER MAIN, WATER SERVICE LINE AND PRESSURE SEWER FACILITIES (MUST BE BELOW WATER MAIN OR WATER SERVICE) MUST BE MET, ARE AS FOLLOWS:
HORIZONTAL $\geq 10'$ MEASURED EDGE TO EDGE VERTICAL $\geq 18"$ MEASURED EDGE TO EDGE.
 - THE MINIMUM SEPARATION BETWEEN (CROSSING PIPELINES) WATER MAIN, WATER SERVICE LINE AND PRESSURE SEWER FACILITIES (MUST BE BELOW WATER MAIN OR WATER SERVICE) MUST BE MET, ARE AS FOLLOWS:
VERTICAL $\geq 18"$ MEASURED EDGE TO EDGE



BLOCKS 57 (PRESSURE ZONE 538, MAX. HEAD 537, MIN. HEAD 517)				
LOT NO.	LOWEST FIXTURE ELEV. (FT.)	HIGHEST FIXTURE ELEV. (FT.)	ESTIMATED MIN. STATIC PRESSURE (PSI.)	ESTIMATED MAX. STATIC PRESSURE (PSI.)
1, 2, 3, 4, 5	425.00'	440.00'	33	49
6	423.00'	438.00'	34	49
7	424.00'	439.00'	34	49
8	422.00'	437.00'	35	50
9	421.00'	436.00'	35	50



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PHONE: (206) 431-7970
FAX: (206) 388-1648
WEB SITE: PACENG.COM

Pacific Engineering Design, LLC
Civil Engineering and Planning Consultants

LAKEHAVEN UTILITY DISTRICT PROJECT No. 6304025
PEPPER HILL ESTATES
KING COUNTY, WA.

FOR: HIGHLAND PACIFIC HOUSING GROUP I, LLC
1420 5TH AVE, SUITE 2200
SEATTLE, WA 98101-5346
PHONE: (206) 521-5979 FAX: (206) 254-2880

PROJECT NO.: **05052**
DRAWN BY: **JGC**
ISSUE DATE: **07-31-07**
SHEET REV.: **03-26-2012**

WATER MAIN S. 354TH ST. PLAN AND PROFILE

05052WA02-WA02.DWG
WA02