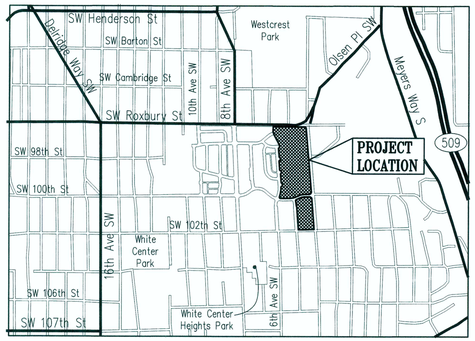
GREENBRIDGE DIVISION 8

INFRASTRUCTURE
WATER IMPROVEMENT PLANS
(KING COUNTY WATER DISTRICT #20)

SEC. 6, T.23 N., R.4E., W.M.
King County, Washington
FEBRUARY 2020
PERMIT SUBMITTAL



VICINITY MAP
N.T.S.

Contract No.

PROJECT DEVELOPER
KING COUNTY HOUSING AUTHORITY
600 ANDOVER PARK WEST
TUKWILA, WA 98188
TELEPHONE: (206) 574-1196
CONTACT PERSON : JOHN ELIASON

PROJECT ENGINEER
KPFF CONSULTING ENGINEERS
1601 FIFTH AVENUE, SUITE 1600
SEATTLE, WA 98101
TELEPHONE: (206) 622-5822

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1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com

Greenbridge

King County Housing Authority

Water District 20
KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: DATE 3/5/20

DEA #0000000000

Mar 02, 2020 - 3:36pm brianb Z:\1600001-1600999\1600206 (Greenbridge)\CAD\Design\02-Design Development\WD20\02-GB WD20 COVER.dwg

SEC. 6, T.23 N., R.4E., W.M.

LEGEND AND ABBREVIATIONS

X / X-X	DETAIL REFERENCE NUMBER/SECTION SHEET		SURVEY MONUMENT
B/W	BACK OF WALK		FIRE HYDRANT
CB	CATCH BASIN		HORIZONTAL BEND W/ BLOCKING
CL	CENTERLINE		GATE VALVE
CONC	CONCRETE		TEE W/ BLOCKING
CTR	CENTER		WATER METER
DI	DUCTILE IRON		WATER MAIN
DOM	DOMESTIC		SLEEVE
EL, ELEV.	ELEVATION	E W	EXISTING KCWD#20 WATER MAIN
EX, EXIST	EXISTING	8" SS	SANITARY SEWER LINE
FL	FLANGE JOINT	12" SD	STORM DRAIN LINE
FH	FIRE HYDRANT	12" GD	GREEN DRAIN LINE
G	GAS		
GD	GREEN DRAINAGE		
GV	GATE VALVE		
EX, EXIST.	EXISTING		
IE	INVERT ELEVATION		
LT	LEFT		
MJ	MECHANICAL JOINT		
PL	PROPERTY LINE		
PE	PLAIN END		
P.O.C.	POINT OF CONNECTION		
R/W, ROW	RIGHT OF WAY		
RT	RIGHT		
RJ	RESTRAINED JOINT		
RS	RESILIANT SEATED		
SCL	SEATTLE CITY LIGHT		
SD	STORM DRAINAGE		
SL	SLEEVE		
SS	SANITARY SEWER		
STD(S)	STANDARD(S)		
SVC	SERVICE		
TB	THRUST BLOCK		
W/	WITH		
KCWD#20	KING COUNTY WATER DISTRICT #20		
WL	WATER LINE		
WTR	WATER		

GENERAL NOTES

1. A COPY OF THE APPROVED PLANS, AND KCWD#20 SPECIFICATIONS SHALL BE ON SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
2. KCWD#20 SHALL OBTAIN ALL PERMITS REQUIRED FOR WORK WITHIN THE PUBLIC RIGHT OF WAY.
3. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL SCHEDULE AND ATTEND A PRE-CONSTRUCTION CONFERENCE WITH THE KCWD#20. THE CONTRACTOR SHALL NOTIFY THE OWNER'S PROFESSIONAL ENGINEERING CONSULTANT OF THE PRE-CONSTRUCTION MEETING TIME AND LOCATION.
4. VERTICAL DATUM: NAVD 88

   BENCH MARK "B"
   SOUTHERLY TOP FLANGE BOLT BETWEEN THE LETTERS E & L IN THE WORD MUELLER, ON FIRE HYDRANT AT S.W. CORNER OF 8TH AVE S.W. & S.W. 102ND ST.
   ELEVATION = 407.61'

   BENCH MARK "C"
   CHISELED SQUARE AT INTERSECTION OF BACK OF CONCRETE WALKS AND BACK OF CURBS AT N.E. CORNER OF 4TH AVE. S.W. & S.W. 102ND ST.
   ELEVATION = 423.37'
5. THE CONTRACTOR SHALL NOTIFY KING COUNTY FIRE DEPARTMENT DISPATCHER (386-1495) TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL WATER SERVICE INTERRUPTIONS, HYDRANT SHUTOFFS, AND STREET CLOSURES OR OTHER ACCESS BLOCKAGE. THE CONTRACTOR SHALL ALSO NOTIFY THE DISPATCHER OF ALL NEW, RELOCATED, OR ELIMINATED HYDRANTS RESULTING FROM THIS WORK.
6. ALL LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN.
7. THE CONTRACTOR SHALL LOCATE AND PROTECT ALL CASTINGS AND UTILITIES DURING CONSTRUCTION AND SHALL CONTACT THE UNDERGROUND UTILITIES LOCATOR SERVICE (1-800-424-5555) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
8. THE CONTRACTOR SHALL ADJUST ALL EXISTING MANHOLE RIMS, DRAINAGE STRUCTURE LIDS, VALVE BOXES, AND UTILITY ACCESS STRUCTURES TO FINISH GRADE WITHIN AREAS AFFECTED BY THE PROPOSED IMPROVEMENTS.
9. ALL WORK PERFORMED BY SEATTLE CITY LIGHT, SPU/WATER DEPARTMENT, KCWD#20, AND OTHER PUBLIC/ PRIVATE UTILITIES TO REMOVE OR RELOCATE EXISTING UTILITIES AT THE DEVELOPER'S EXPENSE, SHALL BE COORDINATED BY THE CONTRACTOR.
10. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL POSITION OF ALL PROPOSED UTILITY POINTS OF CONNECTION, AND SHALL POTHOLE ALL CROSSINGS WITH EXISTING UTILITIES PRIOR TO THE START OF DEMOLITION AND INSTALLATION OF PROPOSED UTILITIES.
9. SURVEY PREPARED BY GOLDSMITH LAND DEVELOPMENT SERVICES. 1215 114TH AVE SE, BELLEVUE, WA. PH# (425)-462-1080

WATER DISTRICT #20 GENERAL WATER NOTES

1. PROJECT TO BE CONSTRUCTED IN ACCORDANCE WITH KING COUNTY WATER DISTRICT NO. 20 STANDARD SPECIFICATIONS.
2. PIPE DEFLECTION AT JOINTS NOT TO EXCEED ½ OF MANUFACTURER'S RECOMMENDATIONS.
3. MAINTAIN A MINIMUM OF 10 FEET HORIZONTAL SEPARATION BETWEEN WATER MAIN AND SANITARY SEWER AT ALL LOCATIONS, EXCEPT AS ALLOWED PER SECTION C1-9.1 OF THE CRITERIA FOR SEWAGE WORKS DESIGN AS PUBLISHED BY THE DEPARTMENT OF ECOLOGY IN DECEMBER 1998.
4. NOTIFY THE DISTRICT OFFICE IN WRITING A MINIMUM OF 72 HOURS PRIOR TO PROCEEDING WITH CONSTRUCTION.
5. WATER WORKS TESTING
   SHUT DOWN VALVE(S) TO EXISTING WATER SYSTEM. PUMP UP MAIN TO 250 P.S.I. AS DETERMINED BY ACCURATE PRESSURE GAUGE ON PUMP AND LET SIT FOR A MINIMUM OF 15 MINUTES. THERE SHALL BE NO APPRECIABLE OR ABRUPT LOSS IN PRESSURE IN THE 15 MINUTES. CONTRACTOR SHALL IDENTIFY AND CORRECT THE PROBLEM IF A PRESSURE DROP GREATER THAN 5 P.S.. OCCURS. (CONTRACTOR TESTING GAUGE MAY BE COMPARED TO DISTRICT PRESSURE GAUGE FOR ACCURACY)

   PRIOR TO CALLING OUT THE DISTRICT TO WITNESS THE PRESSURE TEST, THE CONTRACTOR SHALL HAVE ALL EQUIPMENT SET UP AND COMPLETELY READY FOR OPERATION AND SHALL HAVE SUCCESSFULLY PERFORMED THE TEST TO ASSURE HIMSELF/HERSELF THAT THE PIPE IS IN SATISFACTORY CONDITION.
6. THE CONTRACTOR SHALL NOT OPERATE ANY GATE VALVES OR MAKE ANY CONNECTIONS TO THE EXISTING WATER SYSTEM WITHOUT PRIOR WRITTEN APPROVAL FROM THE DISTRICT INSPECTOR OR SUPERINTENDENT.
7. WATER SERVICE LOCATIONS ARE SHOWN AT APPROXIMATE LOCATION ONLY. ALL FINAL LOCATIONS SHALL BE FIELD STAKED BY THE DEVELOPER'S ENGINEER AND THEN COORDINATED AND FIELD VERIFIED WITH THE DISTRICT INSPECTOR OR SUPERINTENDENT PRIOR TO INSTALLATION. ALL TAPS TO THE WATERMAIN SHALL BE MADE AT THE SAME HORIZONTAL STATION ALONG THE PIPE THAT THE METER IS PLACED UNLESS OTHER ARRANGEMENTS ARE MADE WITH THE DISTRICT.
8. ℄ = DOUBLE SERVICE
   ℄ = SINGLE SERVICE
   } 1-1" (MINIMUM) SERVICE LINE PER METER

   DOUBLE SERVICES SHALL NOT BE LOCATED WHERE THERE WILL BE CONFLICTS WITH OTHER UTILITY BOXES. ANY CHANGES TO THE DESIGN LOCATIONS SHALL BE APPROVED BY DISTRICT MANAGER OR SUPERINTENDENT PRIOR TO INSTALLATION.
9. AFTER CLEARING AND A MINIMUM OF 4 WEEKS PRIOR TO WATERLINE INSTALLATION, THE DEVELOPER OR CONTRACTOR SHALL COORDINATE WITH THE DISTRICT SO THAT SOILS TESTING CAN BE COMPLETED BY DEVELOPER AS DETERMINED BY THE DISTRICT. THE DISTRICT WILL DETERMINE WHERE POLYETHYLENE LINING SHALL BE INSTALLED ON THE WATERLINE.

DRAWING INDEX

DRAWING	SHEET	DRAWING TITLE
CVR	1	COVER SHEET
W-1	2	NOTES AND LEGEND
W-1A	3	OVERALL WATER KEY PLAN
W-2	4	SW 97TH STREET PLAN AND PROFILE
W-3	5	5TH LANE SW PLAN AND PROFILE
W-4	6	5TH LANE SW PLAN AND PROFILE
W-5	7	SW 99TH PLACE PLAN AND PROFILE
W-6	8	SW 97TH PLACE PLAN AND PROFILE
W-7	9	SW 98TH STREET PLAN AND PROFILE
W-8	10	SW 98TH PLACE PLAN AND PROFILE
W-9	11	TRACT A-806 PLAN AND PROFILE
W-10	12	SW 100TH PLACE AND 5TH PLACE SW PLAN AND PROFILE
W-11	13	5TH PLACE SW AND SW 101ST PLACE PLAN AND PROFILE
W-12	14	5TH AVENUE SW PLAN AND PROFILE
W-13	15	STANDARD DETAILS
W-14	16	STANDARD DETAILS

Water District 20, KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: DATE: 3/5/20

DEA #25270.5

NO.	BY	DATE	REVISIONS
2		02/27/20	REVISED PER KCWD#20 COMMENTS
1		02/05/20	ORIGINAL SUBMITTAL

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MARK A. MUELLER — STATE OF WASHINGTON — 24711 — REGISTERED PROFESSIONAL ENGINEER
2/28/2020

KING COUNTY WATER DISTRICT NO. 20
WATER MAIN EXTENSION

Greenbridge

SCALE	DES.FLD.BK.	CST.FLD.BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY

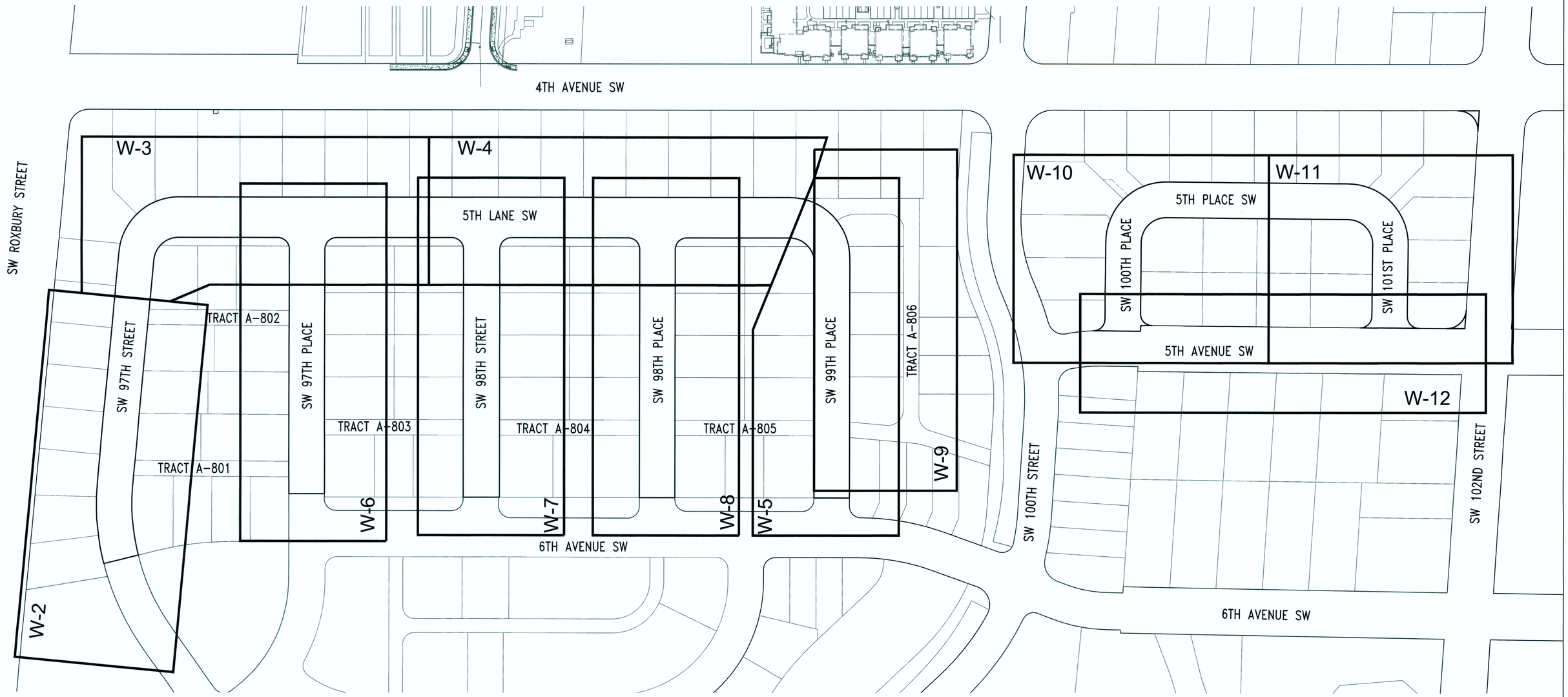
GREENBRIDGE DIVISION 8

NOTES AND LEGEND

BASE MAP
SHEET 2 OF 16
DRAWING W-1

Feb 27, 2020 - 9:57am brianb
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SEC. 6, T.23 N., R.4E., W.M.



N

0 30 60 120
1 inch = 60 feet

811 Call 811 two business days before you dig

Water District 20
KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: Mark A. Velder DATE: 2/5/20

DEA #25270.5

NO.	BY	DATE	REVISIONS
2		02/27/20	REVISED PER KCWD#20 COMMENTS
1		02/05/20	ORIGINAL SUBMITTAL

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MARK A. VELDER — STATE OF WASHINGTON — 24711 — REGISTERED PROFESSIONAL ENGINEER
2/28/2020

KING COUNTY WATER DISTRICT NO. 20

WATER MAIN EXTENSION

Greenbridge

SCALE	DES. FLD. BK.	CST. FLD. BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

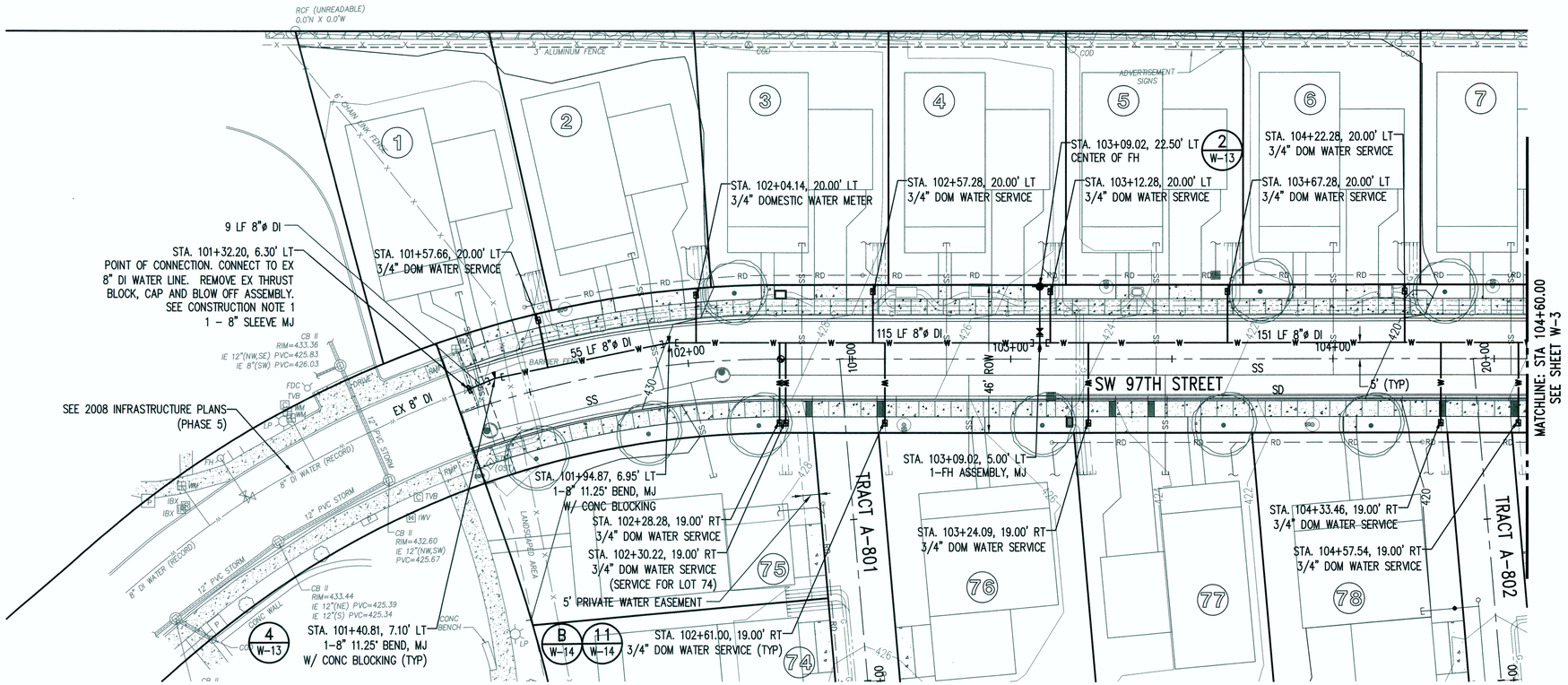
GREENBRIDGE DIVISION 8

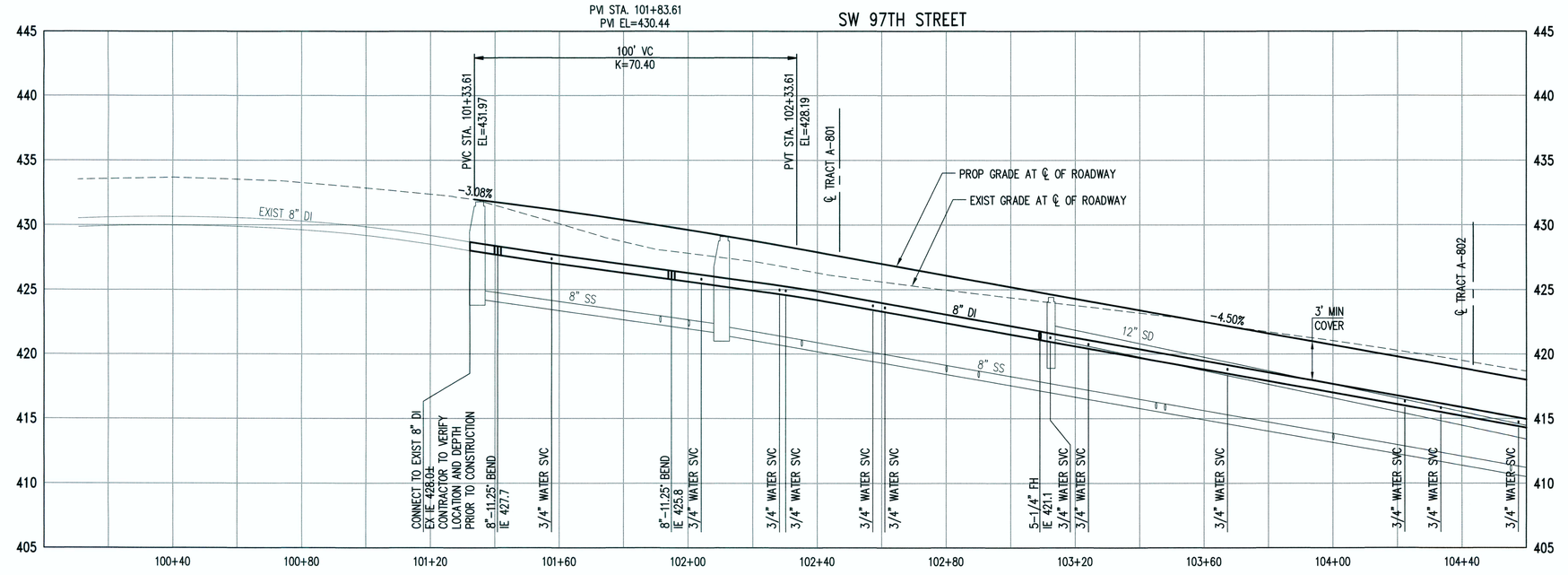
OVERALL WATER KEY PLAN

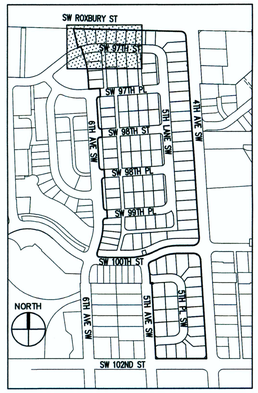
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SHEET 3 OF 16
DRAWING
W-1A

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SEC. 6, T.23 N., R.4E., W.M.







KEY MAP
NTS

CONSTRUCTION NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE AND MATERIAL OF EXISTING WATERMAIN IN THE PRESENCE OF WD#20 INSPECTOR. PREPARE A SKETCH REFLECTING SEQUENCE FOR SHUTTING DOWN AND CONNECTING TO EXIST. WATERMAINS FOR APPROVAL BY WD#20 INSPECTOR.
2. NO CONNECTION TO THE EXISTING SYSTEM SHALL BE MADE UNTIL AFTER PRESSURE AND PURITY TEST ACCEPTANCE AND AUTHORIZATION BY WD#20.
3. EXISTING FEATURES ARE NOT SHOWN FOR CLARITY. CONTRACTOR SHALL REFER TO THE SURVEY PLANS AND FIELD OBSERVATION FOR UTILITIES AND EXIST. STRUCTURES THAT MAY BE ENCOUNTERED DURING TRENCHING.

N

0 10 20 40
1 inch = 20 ft. HORZ
0 2.5 5 10
1 inch = 5 ft. VERT

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20 Water District KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: Richard D. Marks DATE: 3/6/20

DEA #25270.5

NO.	BY	DATE	REVISIONS
2		02/27/20	REVISED PER KCWD#20 COMMENTS
1		02/05/20	ORIGINAL SUBMITTAL

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MARK A. VELDEN STATE OF WASHINGTON 24711 REGISTERED PROFESSIONAL ENGINEER
2/28/2020

KING COUNTY WATER DISTRICT NO. 20
WATER MAIN EXTENSION

Greenbridge

SCALE	DES.FLD.BK.	CST.FLD.BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

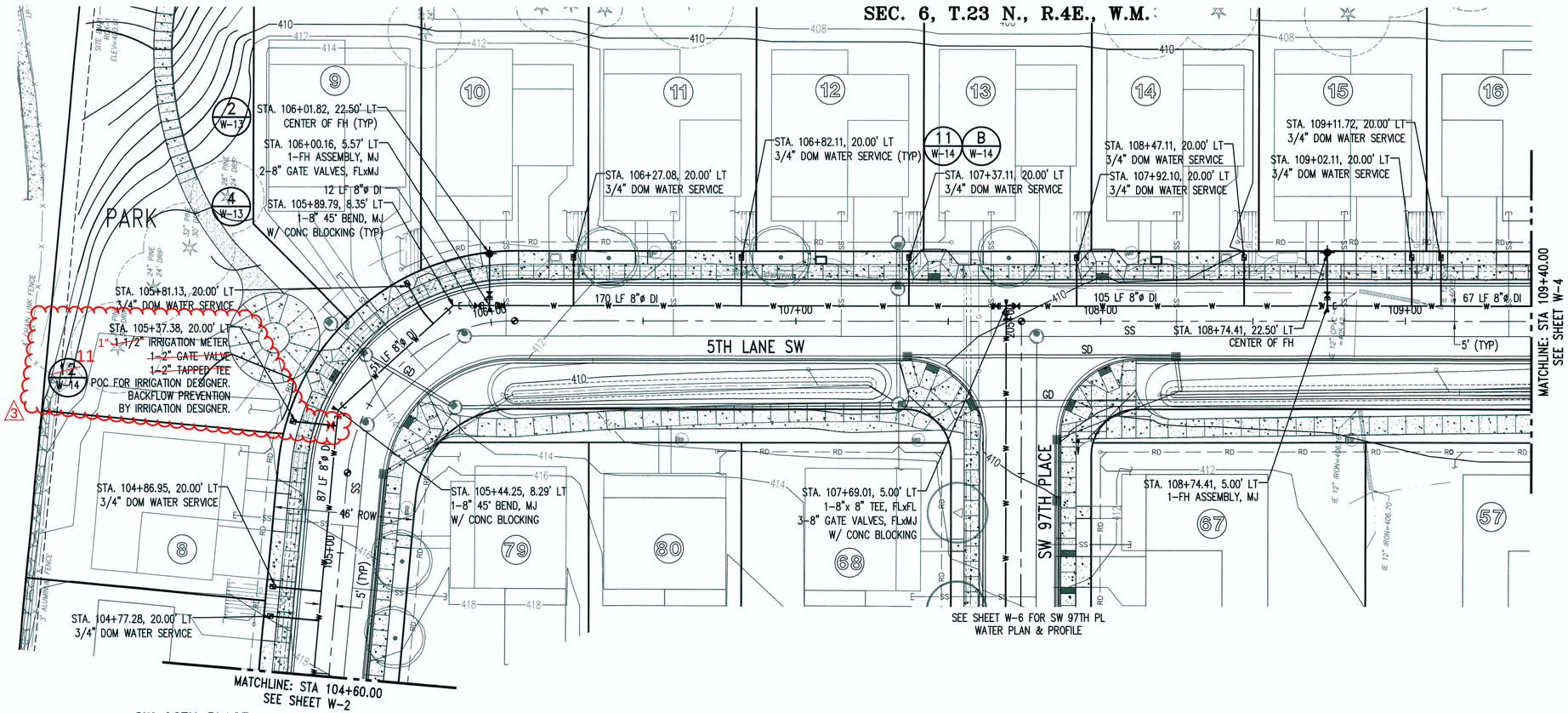
GREENBRIDGE DIVISION 8

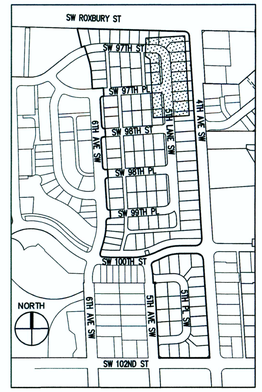
SW 97TH STREET PLAN AND PROFILE

BASE MAP
SHEET 4 OF 16
DRAWING
W-2

Feb 27, 2020 - 12:55pm brionb
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SEC. 6, T.23 N., R.4E., W.M.

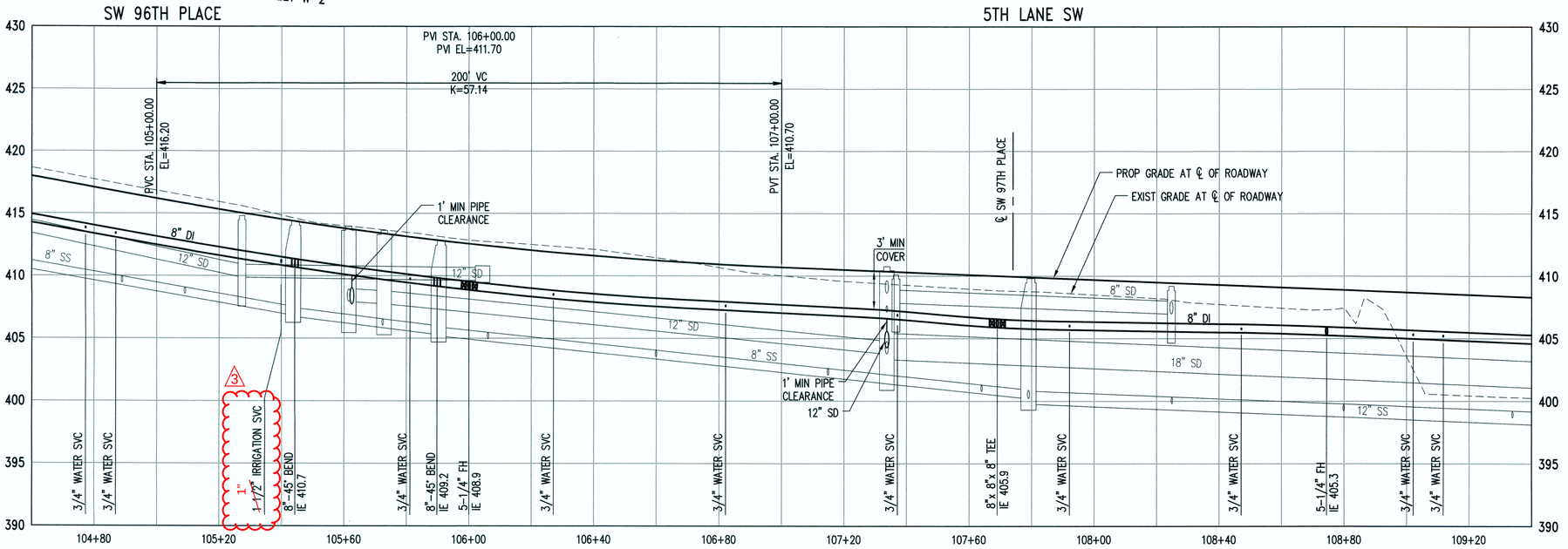


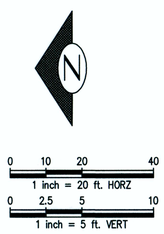


KEY MAP
NTS

CONSTRUCTION NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE AND MATERIAL OF EXISTING WATERMAIN IN THE PRESENCE OF WD#20 INSPECTOR. PREPARE A SKETCH REFLECTING SEQUENCE FOR SHUTTING DOWN AND CONNECTING TO EXIST. WATERMAINS FOR APPROVAL BY WD#20 INSPECTOR.
2. NO CONNECTION TO THE EXISTING SYSTEM SHALL BE MADE UNTIL AFTER PRESSURE AND PURITY TEST ACCEPTANCE AND AUTHORIZATION BY WD#20.
3. EXISTING FEATURES ARE NOT SHOWN FOR CLARITY. CONTRACTOR SHALL REFER TO THE SURVEY PLANS AND FIELD OBSERVATION FOR UTILITIES AND EXIST. STRUCTURES THAT MAY BE ENCOUNTERED DURING TRENCHING.





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Water District 20 KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: DATE: 3/5/20

DEA #25270.5

NO.	BY	DATE	DESCRIPTION
			REVISIONS
3		04/27/20	IRRIGATION METER SIZE REVISION
2		02/27/20	REVISED PER KCHD#20 COMMENTS
1		02/05/20	ORIGINAL SUBMITTAL

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MARK A. VELDER — STATE OF WASHINGTON — 24711 — REGISTERED PROFESSIONAL ENGINEER
2/28/2020

KING COUNTY WATER DISTRICT NO. 20
WATER MAIN EXTENSION

Greenbridge

SCALE	DES.FLD.BK.	CST.FLD.BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

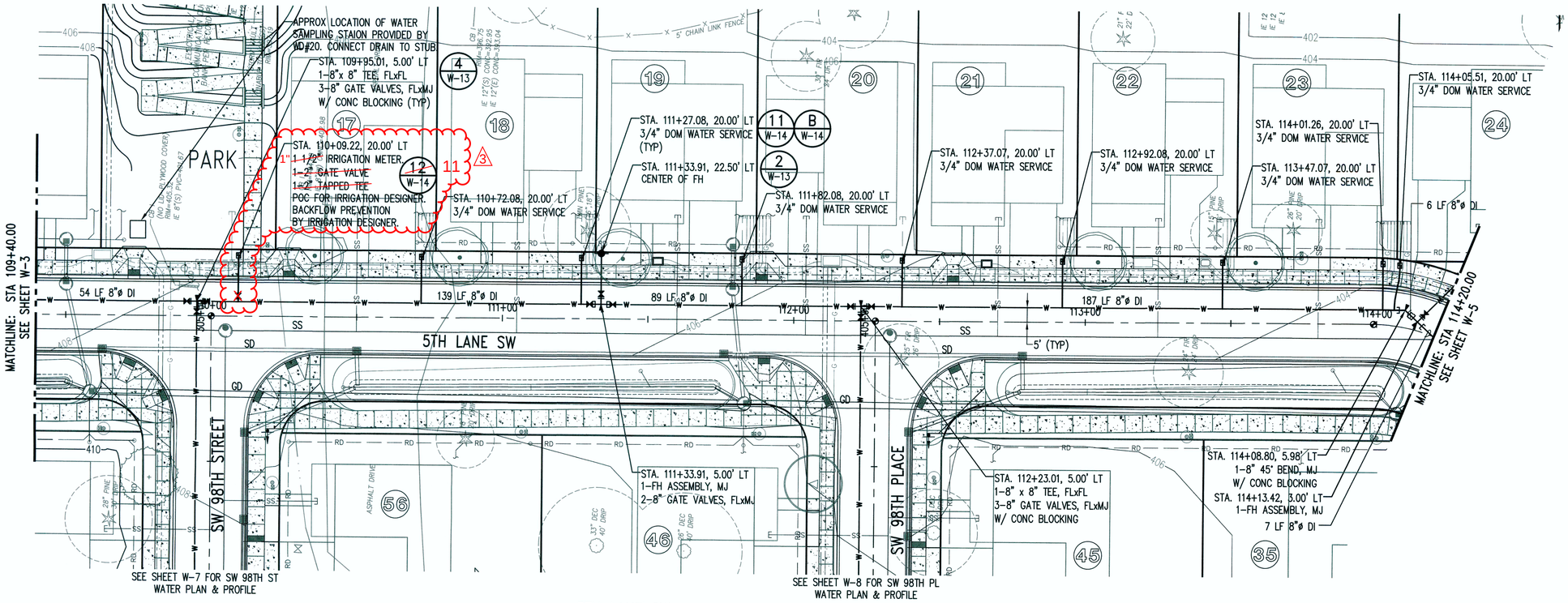
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PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

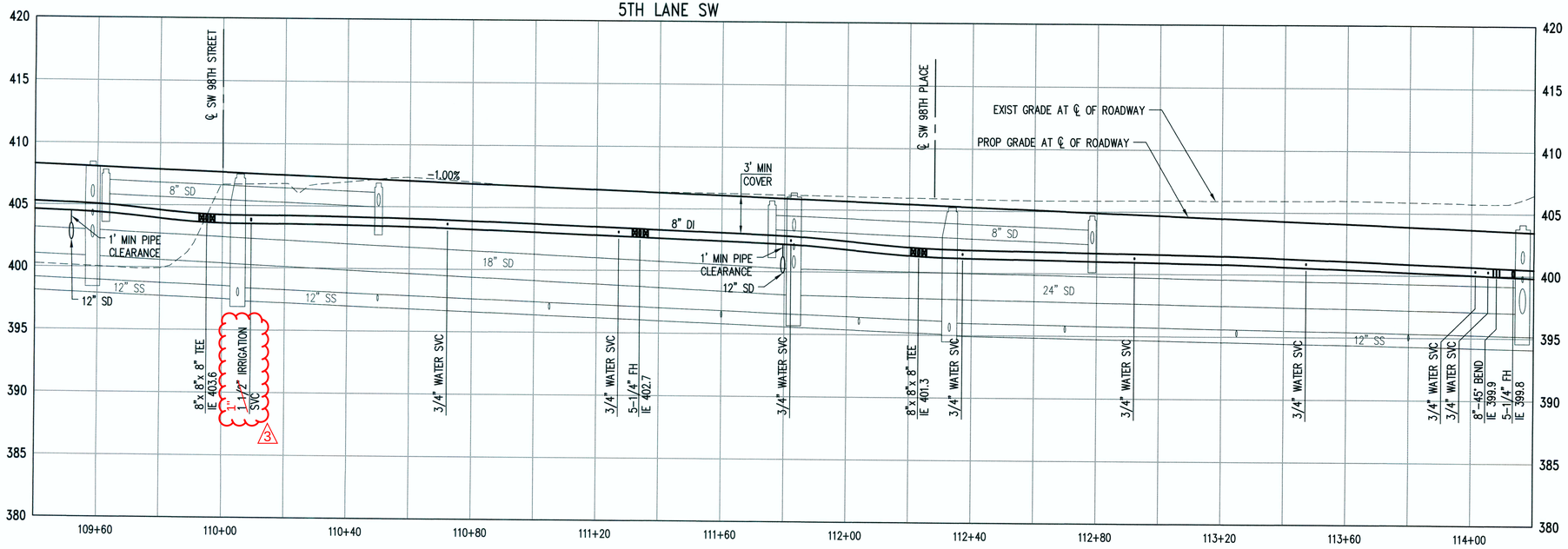
KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
5TH LANE SW PLAN AND PROFILE

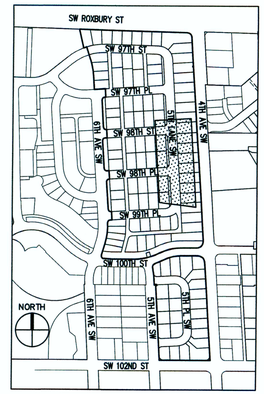
BASE MAP
SHEET 5 OF 16
DRAWING
W-3

Feb 27, 2020 - 12:57pm briank
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SEC. 6, T.23 N., R.4E., W.M.







KEY MAP
NTS

CONSTRUCTION NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE AND MATERIAL OF EXISTING WATERMAIN IN THE PRESENCE OF WD#20 INSPECTOR. PREPARE A SKETCH REFLECTING SEQUENCE FOR SHUTTING DOWN AND CONNECTING TO EXIST. WATERMAINS FOR APPROVAL BY WD#20 INSPECTOR.
2. NO CONNECTION TO THE EXISTING SYSTEM SHALL BE MADE UNTIL AFTER PRESSURE AND PURITY TEST ACCEPTANCE AND AUTHORIZATION BY WD#20.
3. EXISTING FEATURES ARE NOT SHOWN FOR CLARITY. CONTRACTOR SHALL REFER TO THE SURVEY PLANS AND FIELD OBSERVATION FOR UTILITIES AND EXIST. STRUCTURES THAT MAY BE ENCOUNTERED DURING TRENCHING.

0 10 20 40
1 inch = 20 ft. HORZ
0 2.5 5 10
1 inch = 5 ft. VERT

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20 Water District KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: Michael D. Martin DATE: 3/5/20

DEA #25270.5

NO.	BY	DATE	DESCRIPTION
			REVISIONS
3		04/27/20	IRRIGATION METER SIZE REVISION
2		02/27/20	REVISED PER KCHD#20 COMMENTS
1		02/05/20	ORIGINAL SUBMITTAL

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MARK A. FRIDLEY — STATE OF WASHINGTON — 24711 — REGISTERED PROFESSIONAL ENGINEER
2/28/2020

KING COUNTY WATER DISTRICT NO. 20
WATER MAIN EXTENSION

Greenbridge

SCALE HORIZ: VERT:	DES.FLD.BK. NO. PG.	CST.FLD.BK. NO. PG.	

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

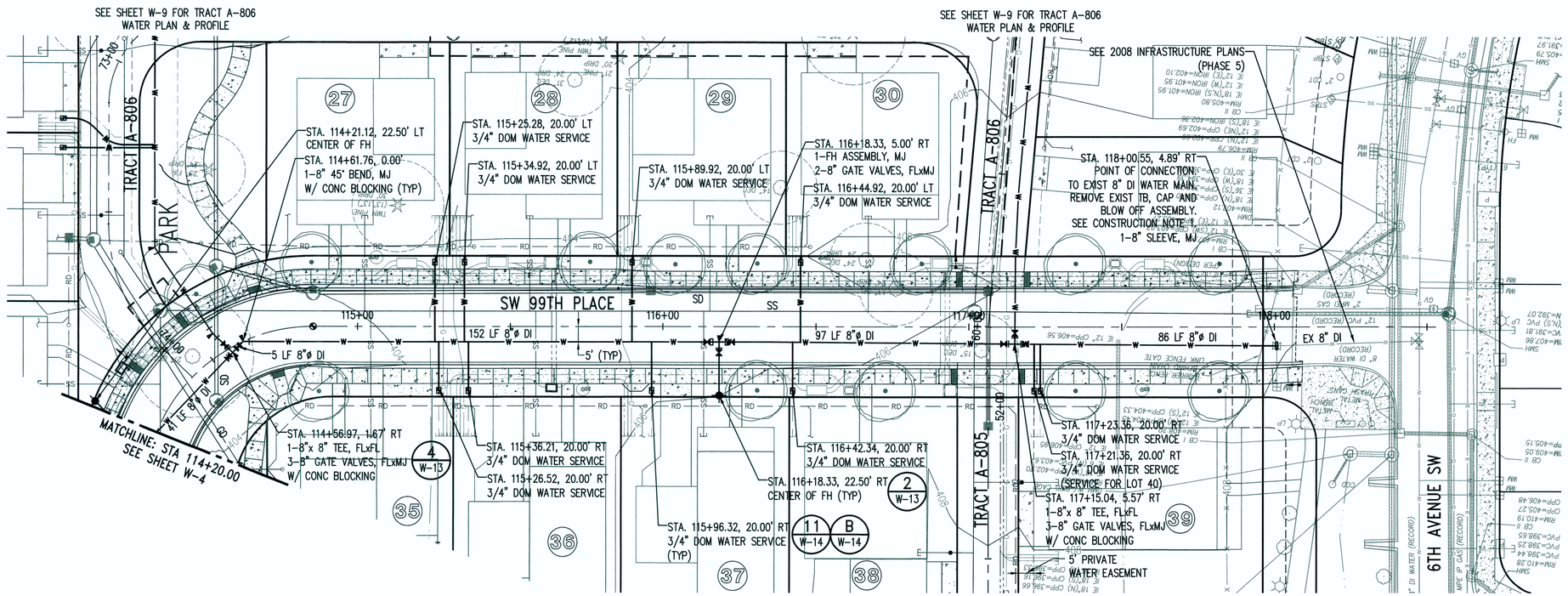
GREENBRIDGE DIVISION 8

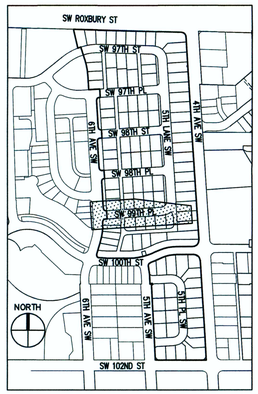
5TH LANE SW PLAN AND PROFILE

BASE MAP
SHEET 6 OF 16
DRAWING
W-4

Feb 27, 2020 - 12:59pm brlamb
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SEC. 6, T.23 N., R.4E., W.M.

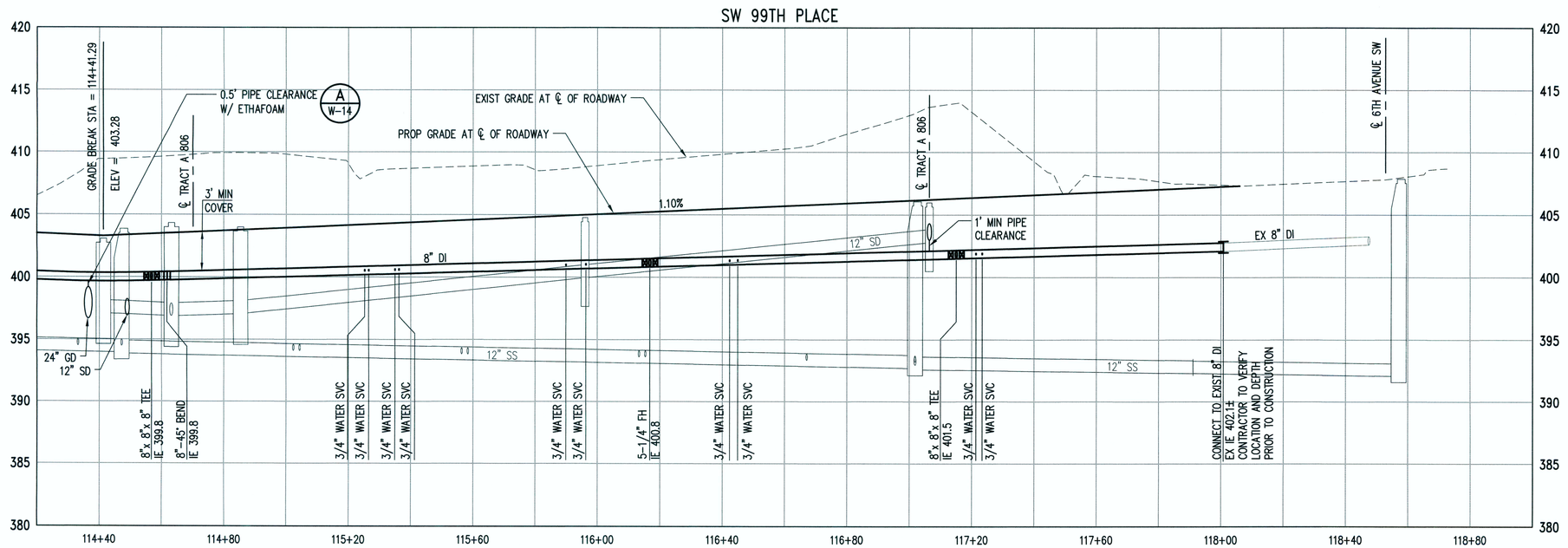




KEY MAP
NTS

CONSTRUCTION NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE AND MATERIAL OF EXISTING WATERMAIN IN THE PRESENCE OF WD#20 INSPECTOR. PREPARE A SKETCH REFLECTING SEQUENCE FOR SHUTTING DOWN AND CONNECTING TO EXIST. WATERMAINS FOR APPROVAL BY WD#20 INSPECTOR.
2. NO CONNECTION TO THE EXISTING SYSTEM SHALL BE MADE UNTIL AFTER PRESSURE AND PURITY TEST ACCEPTANCE AND AUTHORIZATION BY WD#20.
3. EXISTING FEATURES ARE NOT SHOWN FOR CLARITY. CONTRACTOR SHALL REFER TO THE SURVEY PLANS AND FIELD OBSERVATION FOR UTILITIES AND EXIST. STRUCTURES THAT MAY BE ENCOUNTERED DURING TRENCHING.



0 10 20 40
1 inch = 20 ft. HORZ
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1 inch = 5 ft. VERT

811 Call 811 two business days before you dig

20 Water District KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: Michael D. Martin DATE: 3/4/20

DEA #25270.5

NO.	BY	DATE	REVISIONS
2		02/27/20	REVISED PER KCWD#20 COMMENTS
1		02/05/20	ORIGINAL SUBMITTAL

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MARK A. VELDEE STATE OF WASHINGTON 24711 REGISTERED PROFESSIONAL ENGINEER
2/28/2020

KING COUNTY WATER DISTRICT NO. 20
WATER MAIN EXTENSION

Greenbridge

SCALE	DES. FLD. BK.	CST. FLD. BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

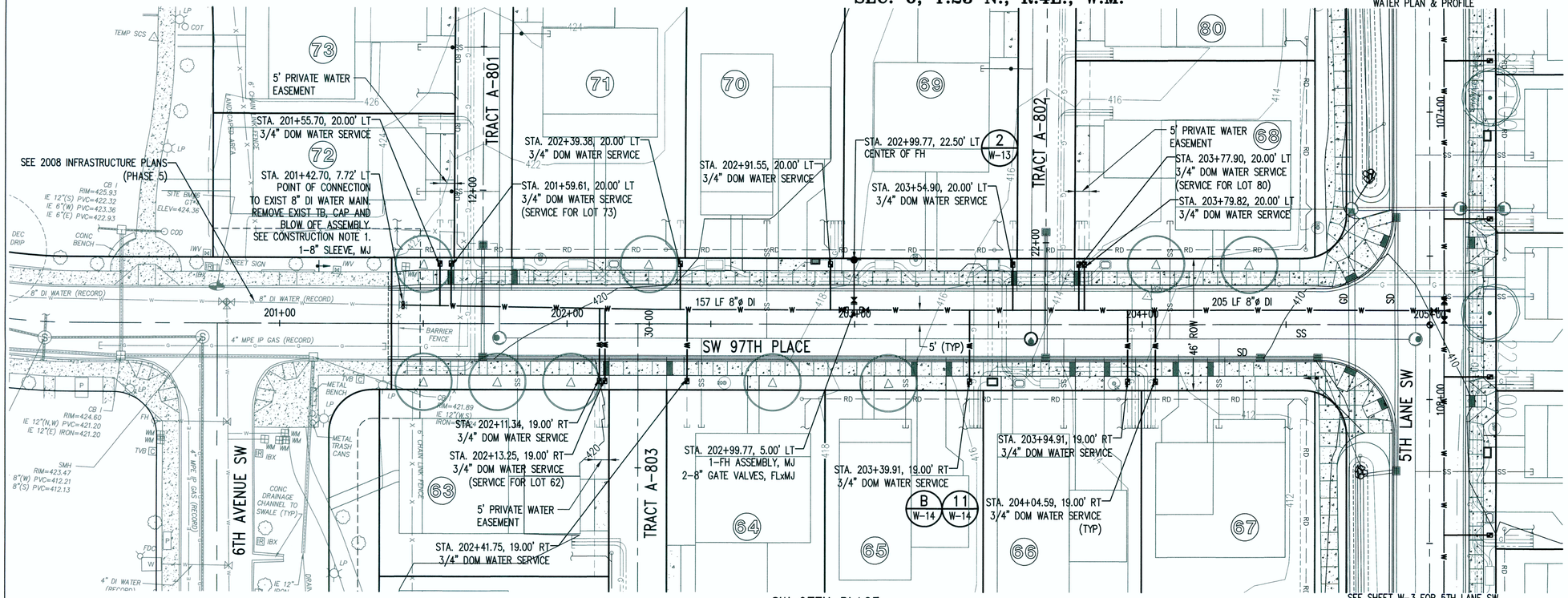
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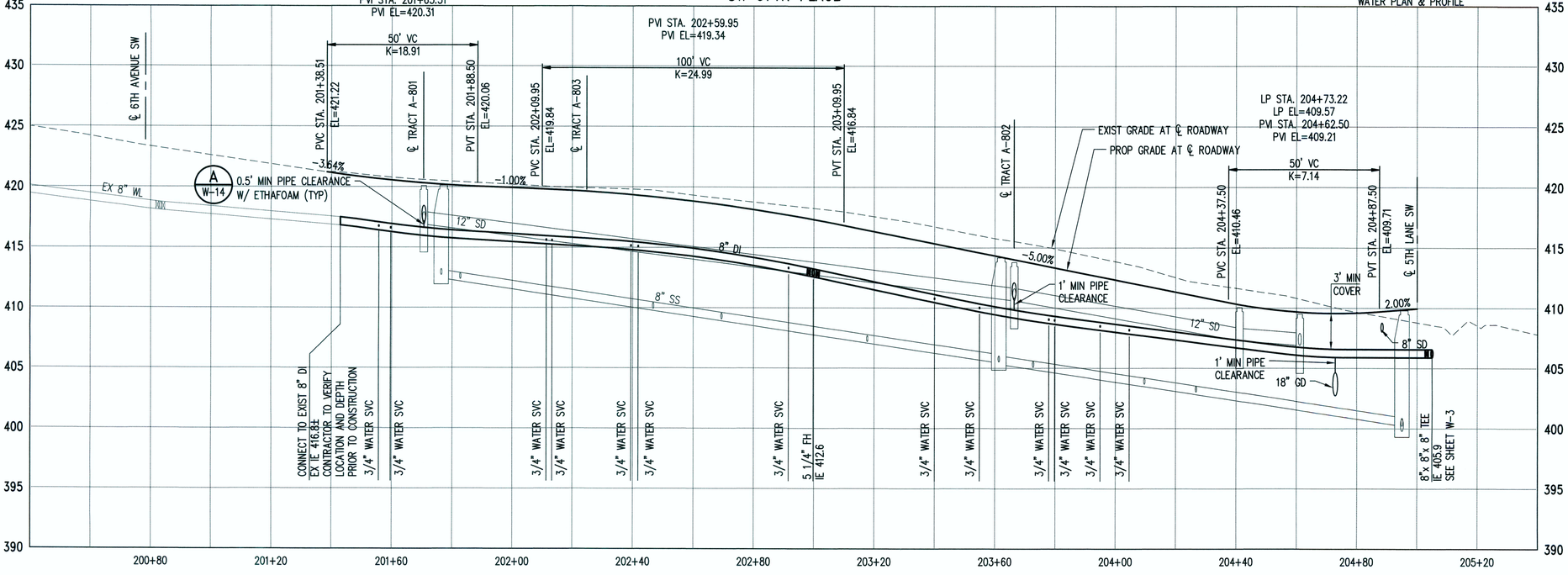
SW 99TH PLACE PLAN AND PROFILE

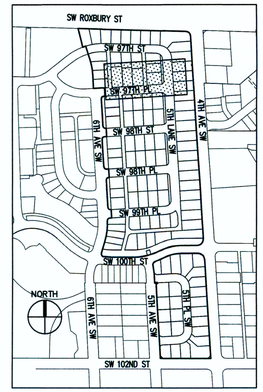
BASE MAP
SHEET 7 OF 16
DRAWING
W-5

Feb 27, 2020 - 12:58pm brionb
Z:\1600001-1600999\1600206 (Greenbridge)\CADD\Design\02-Design Development\WD20\03-08 WD20 2 5TH AVE SW.dwg

SEC. 6, T.23 N., R.4E., W.M.







KEY MAP
NTS

CONSTRUCTION NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE AND MATERIAL OF EXISTING WATERMAIN IN THE PRESENCE OF WD#20 INSPECTOR. PREPARE A SKETCH REFLECTING SEQUENCE FOR SHUTTING DOWN AND CONNECTING TO EXIST. WATERMAINS FOR APPROVAL BY WD#20 INSPECTOR.
2. NO CONNECTION TO THE EXISTING SYSTEM SHALL BE MADE UNTIL AFTER PRESSURE AND PURITY TEST ACCEPTANCE AND AUTHORIZATION BY WD#20.
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N

0 10 20 40
1 inch = 20 ft. HORZ
0 2.5 5 10
1 inch = 5 ft. VERT

811 Call 811 two business days before you dig

Water District 20 KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: DATE: 2/5/20

DEA #25270.5

NO.	BY	DATE	REVISIONS
2		02/27/20	REVISED PER KCHD#20 COMMENTS
1		02/05/20	ORIGINAL SUBMITTAL

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MARK A. VELDER STATE OF WASHINGTON 24711 REGISTERED PROFESSIONAL ENGINEER
2/28/2020

KING COUNTY WATER DISTRICT NO. 20
WATER MAIN EXTENSION

Greenbridge

SCALE	DES. FLD. BK.	CST. FLD. BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

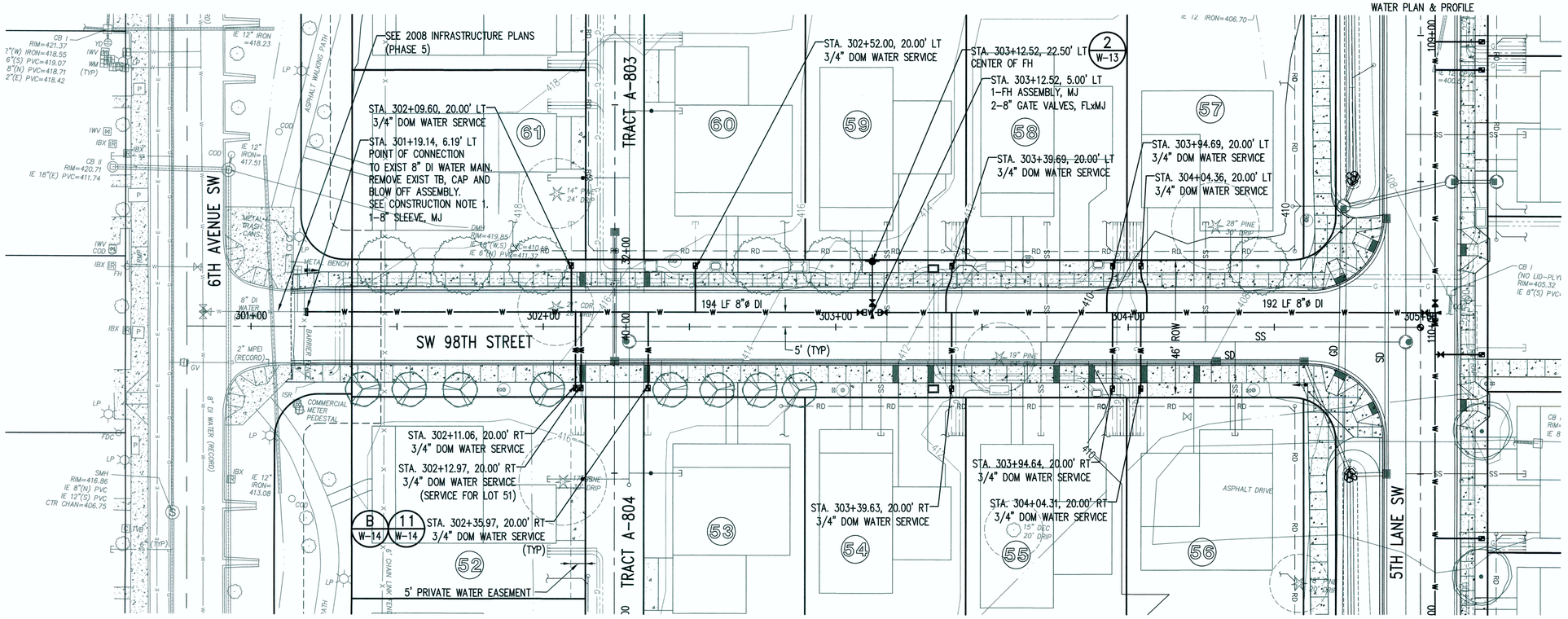
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PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

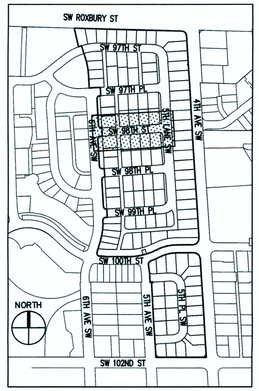
KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
SW 97TH PLACE PLAN AND PROFILE

BASE MAP
SHEET 8 OF 16
DRAWING
W-6

Feb 27, 2020 - 12:59pm brionb
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SEC. 6, T.23 N., R.4E., W.M.

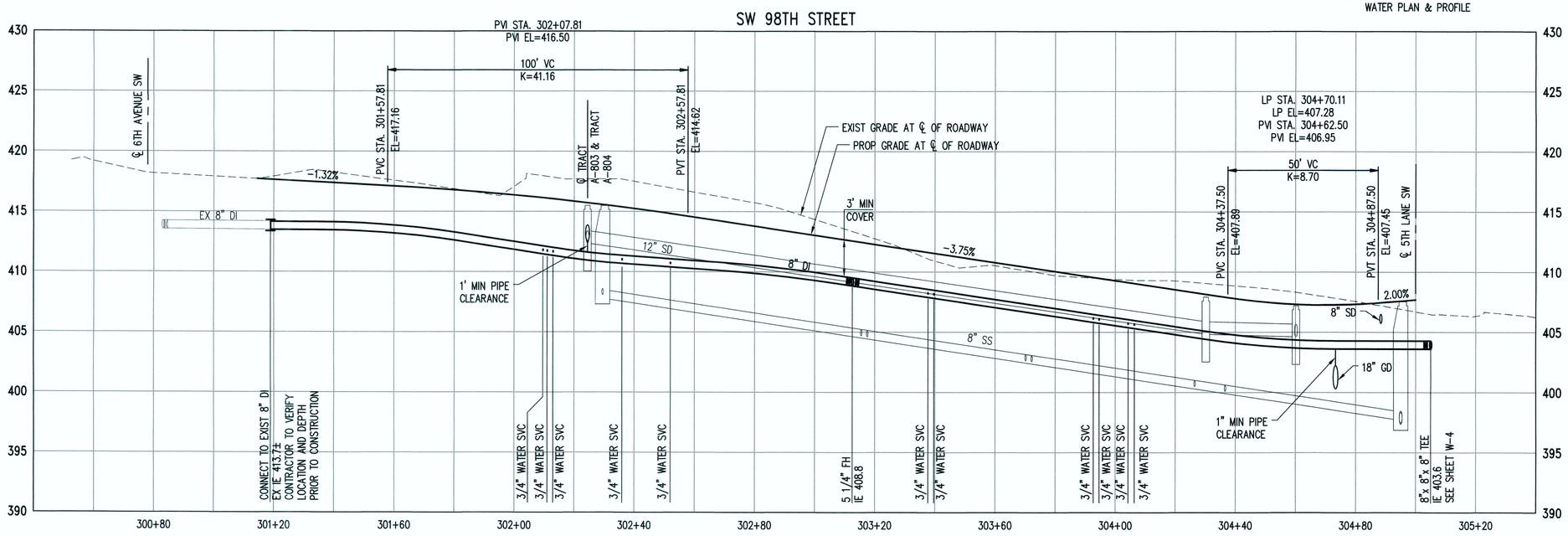


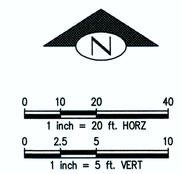


KEY MAP
NTS

CONSTRUCTION NOTES:

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Water District 20 KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: Michael J. Mott DATE: 3/5/20

DEA #25270.5

NO.	BY	DATE	REVISIONS
2		02/27/20	REVISED PER KCHD#20 COMMENTS
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MARK A. ELDER, STATE OF WASHINGTON, 24711, REGISTERED PROFESSIONAL ENGINEER
2/28/2020

KING COUNTY WATER DISTRICT NO. 20

WATER MAIN EXTENSION

Greenbridge

SCALE	DES.FLD.BK.	CST.FLD.BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

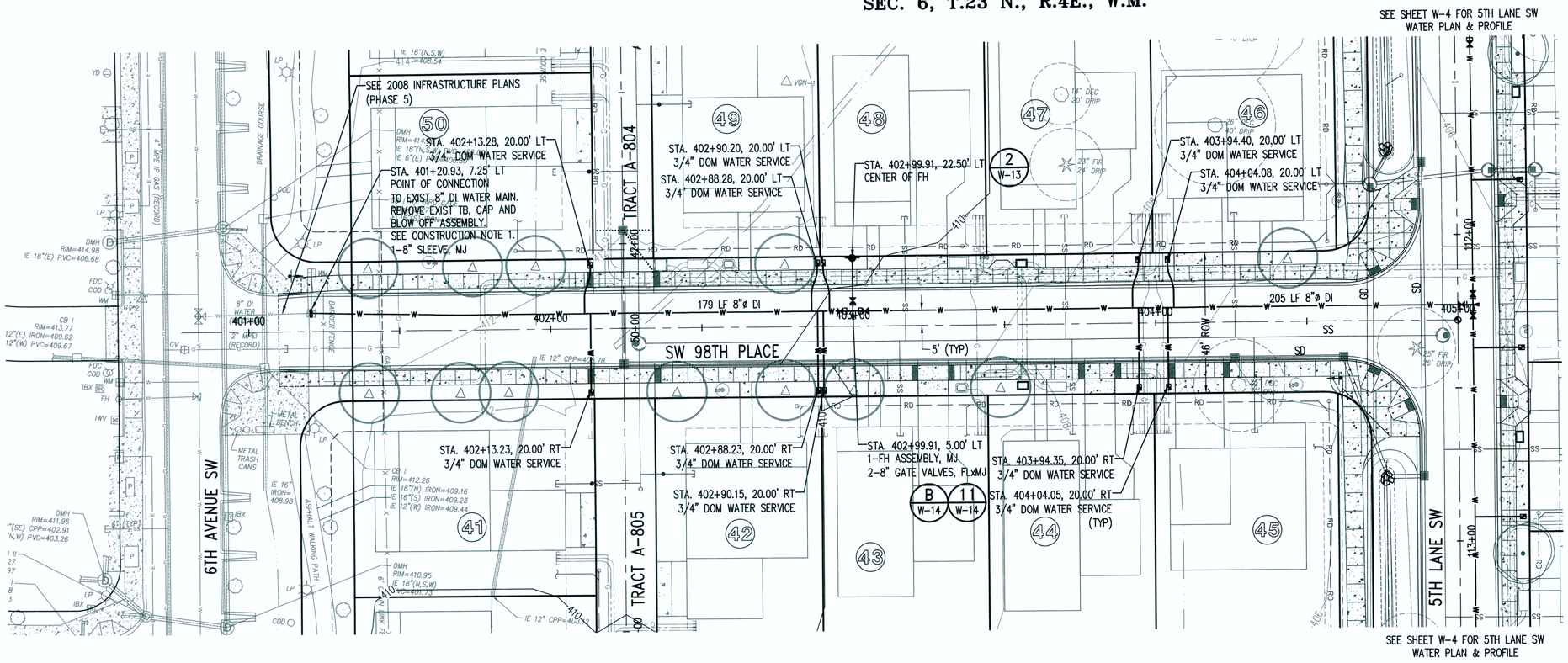
GREENBRIDGE DIVISION 8

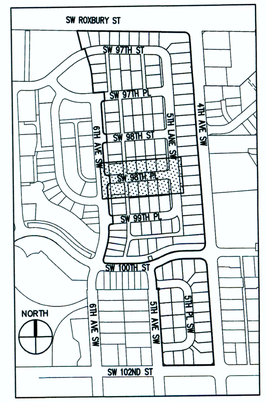
SW 98TH STREET PLAN AND PROFILE

BASE MAP
SHEET 9 OF 16
DRAWING
W-7

Feb 27, 2020 - 12:59pm brianb
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SEC. 6, T.23 N., R.4E., W.M.

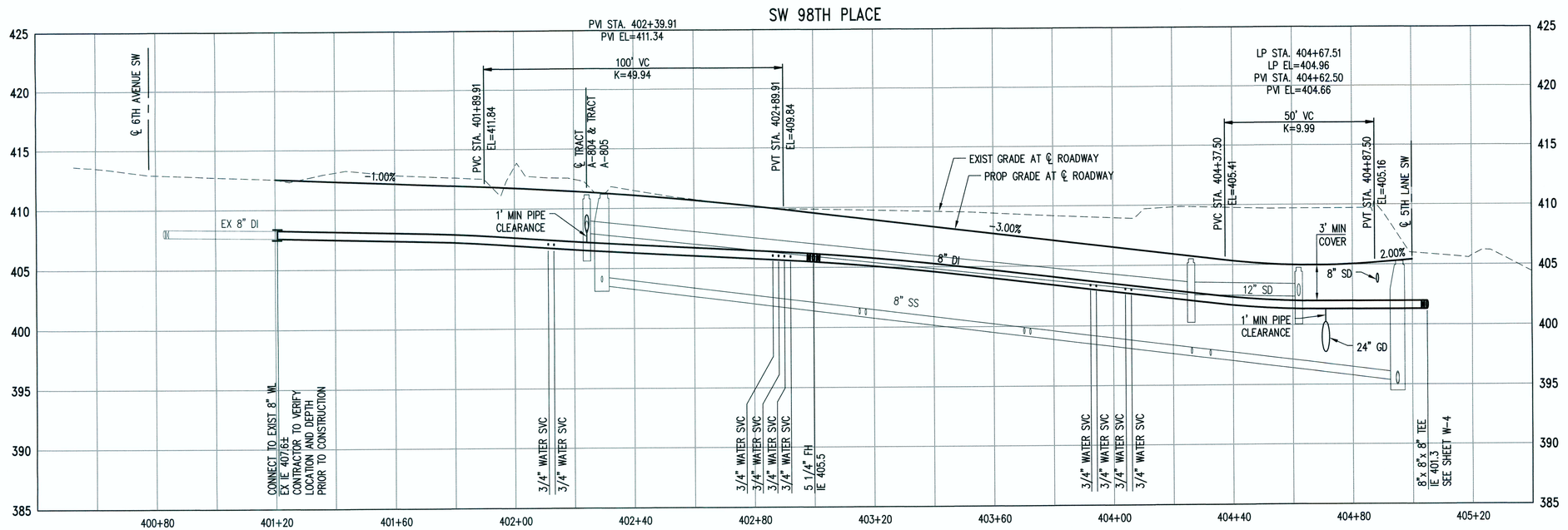




KEY MAP
NTS

CONSTRUCTION NOTES:

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N

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1 inch = 5 ft. VERT

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20 Water District KING COUNTY

APPROVED CONSTRUCTION DRAWINGS: Michael D. Mirra DATE 3/6/20

DEA #25270.5

NO.	BY	DATE	REVISIONS
2		02/27/20	REVISED PER KCHD#20 COMMENTS
1		02/05/20	ORIGINAL SUBMITTAL

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MIRA A. VELDER STATE OF WASHINGTON 24711 REGISTERED PROFESSIONAL ENGINEER
2/28/2020

KING COUNTY WATER DISTRICT NO. 20

WATER MAIN EXTENSION

Greenbridge

SCALE HORIZ:	DES.FLD.BK. NO. PG.
VERT:	CST.FLD.BK. NO. PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY

WHITE CENTER, WASHINGTON

GREENBRIDGE DIVISION 8

SW 98TH PLACE PLAN AND PROFILE

BASE MAP

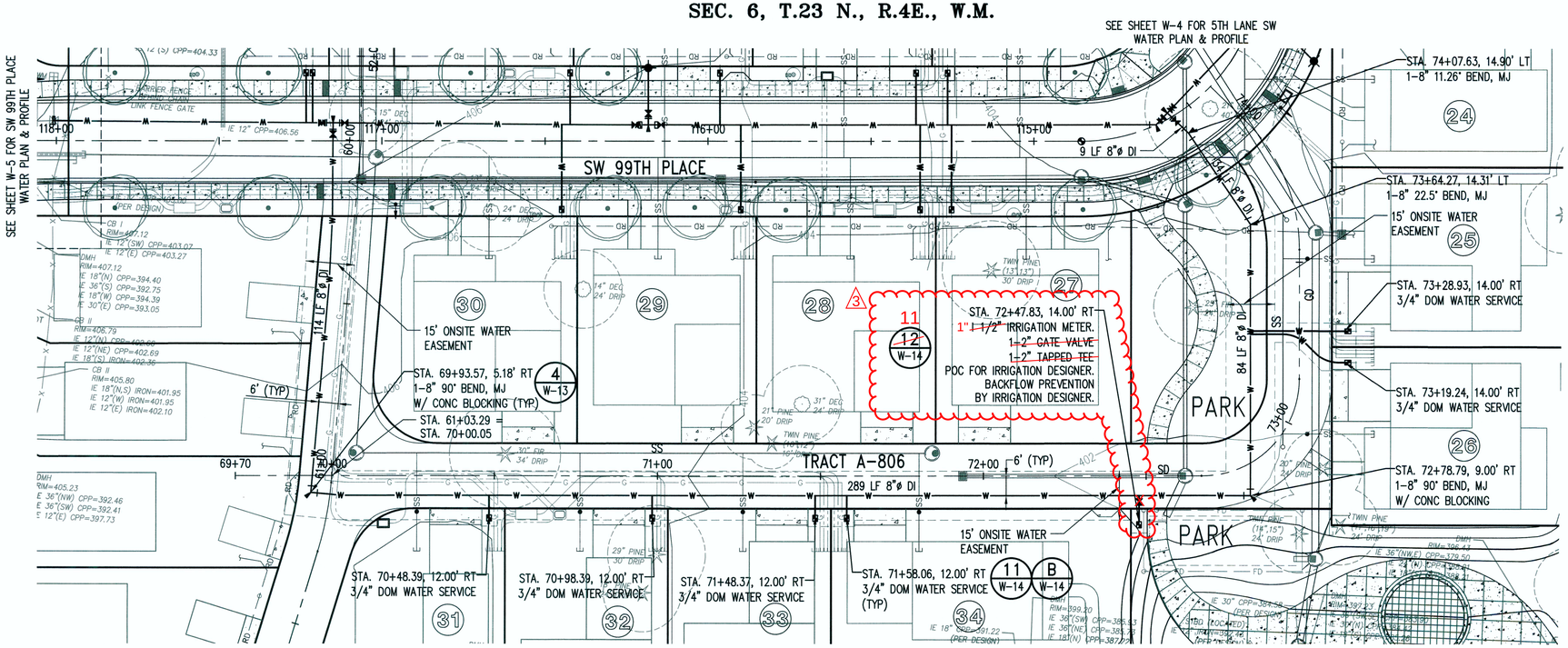
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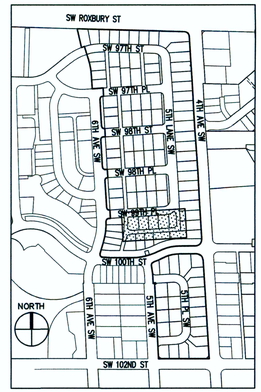
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Feb 27, 2020 - 1:30pm brianb

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SEC. 6, T.23 N., R.4E., W.M.

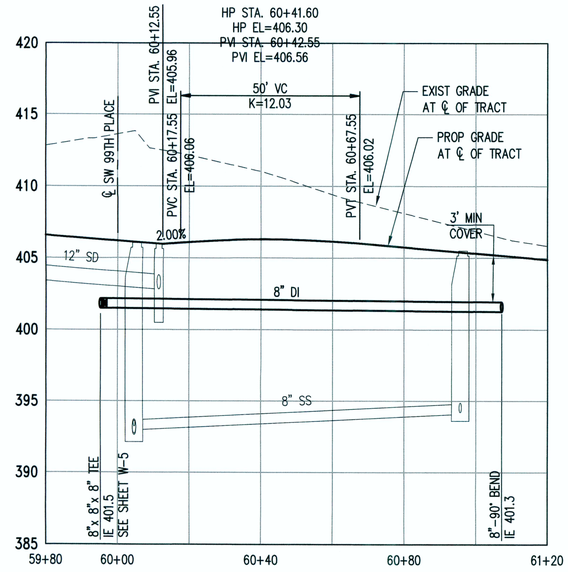




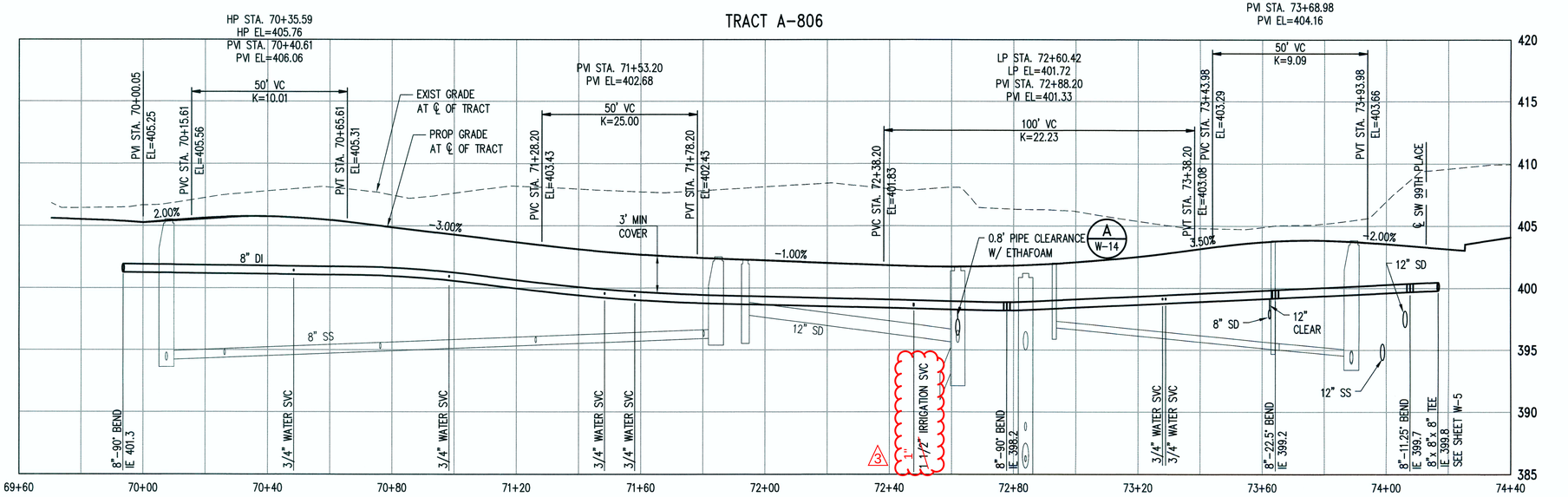
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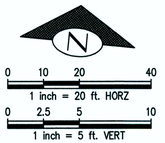
1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE AND MATERIAL OF EXISTING WATERMAIN IN THE PRESENCE OF WD#20 INSPECTOR. PREPARE A SKETCH REFLECTING SEQUENCE FOR SHUTTING DOWN AND CONNECTING TO EXIST. WATERMAINS FOR APPROVAL BY WD#20 INSPECTOR.
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TRACT A-806 (WEST)



TRACT A-806





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Water District 20 KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: DATE: 3/5/20

DEA #25270.5

NO.	BY	DATE	REVISIONS
3		04/27/20	IRRIGATION METER SIZE REVISION
2		02/27/20	REVISED PER KCWD#20 COMMENTS
1		02/05/20	ORIGINAL SUBMITTAL

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MARK A. VELEBA STATE OF WASHINGTON 24711 REGISTERED PROFESSIONAL ENGINEER
2/28/2020

KING COUNTY WATER DISTRICT NO. 20

WATER MAIN EXTENSION

Greenbridge

SCALE	DES.FLD.BK.	CST.FLD.BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY

WHITE CENTER, WASHINGTON

GREENBRIDGE DIVISION 8

TRACT A-806 PLAN AND PROFILE

BASE MAP

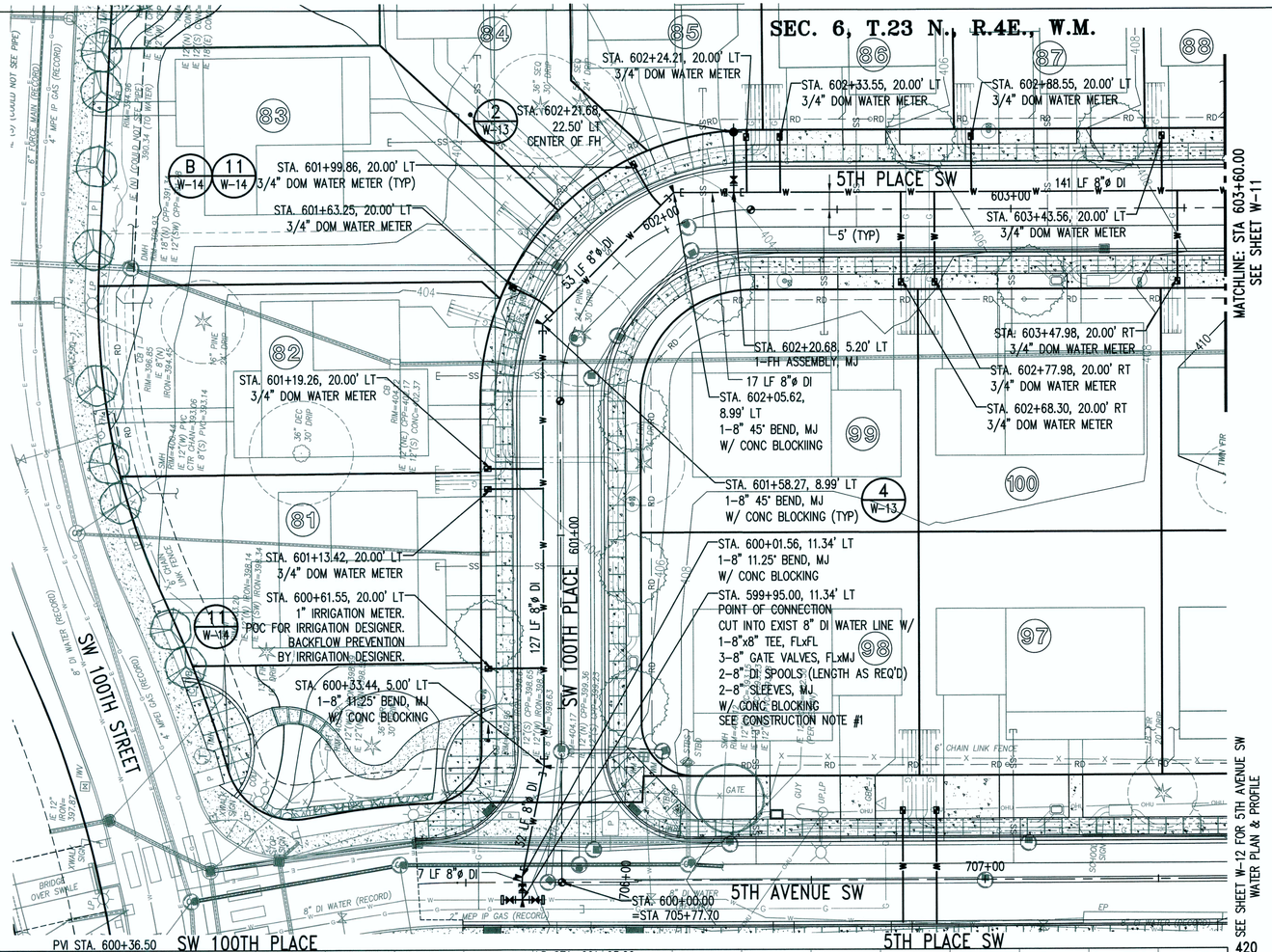
SHEET 11 OF 16

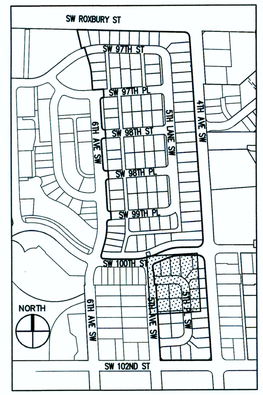
DRAWING

W-9

Feb 27, 2020 - 1:00pm brlamb

Z:\1600001-1609999\1600206 (Greenbridge)\CAD\Design\02-Design Development\W020\08-08 W020 10 ALLEY C.dwg





KEY MAP
NTS

CONSTRUCTION NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE AND MATERIAL OF EXISTING WATERMAIN IN THE PRESENCE OF WD#20 INSPECTOR. PREPARE A SKETCH REFLECTING SEQUENCE FOR SHUTTING DOWN AND CONNECTING TO EXIST. WATERMAINS FOR APPROVAL BY WD#20 INSPECTOR.
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N

0 10 20 40
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1 inch = 5 ft. VERT

811 Call 811 two business days before you dig

Water District 20 KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: Michael D. Martin DATE: 3/5/20

DEA #25270.5

NO.	BY	DATE	REVISIONS
2		02/27/20	REVISED PER KCHD#20 COMMENTS
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MARK A. VELDER STATE OF WASHINGTON 24711 REGISTERED PROFESSIONAL ENGINEER
2/28/2020

KING COUNTY WATER DISTRICT NO. 20

WATER MAIN EXTENSION

Greenbridge

SCALE HORIZ: VERT:	DES. FLD. BK. NO. PG.	CST. FLD. BK. NO. PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY

WHITE CENTER, WASHINGTON

GREENBRIDGE DIVISION 8

SW 100TH PLACE AND 5TH PLACE SW PLAN AND PROFILE

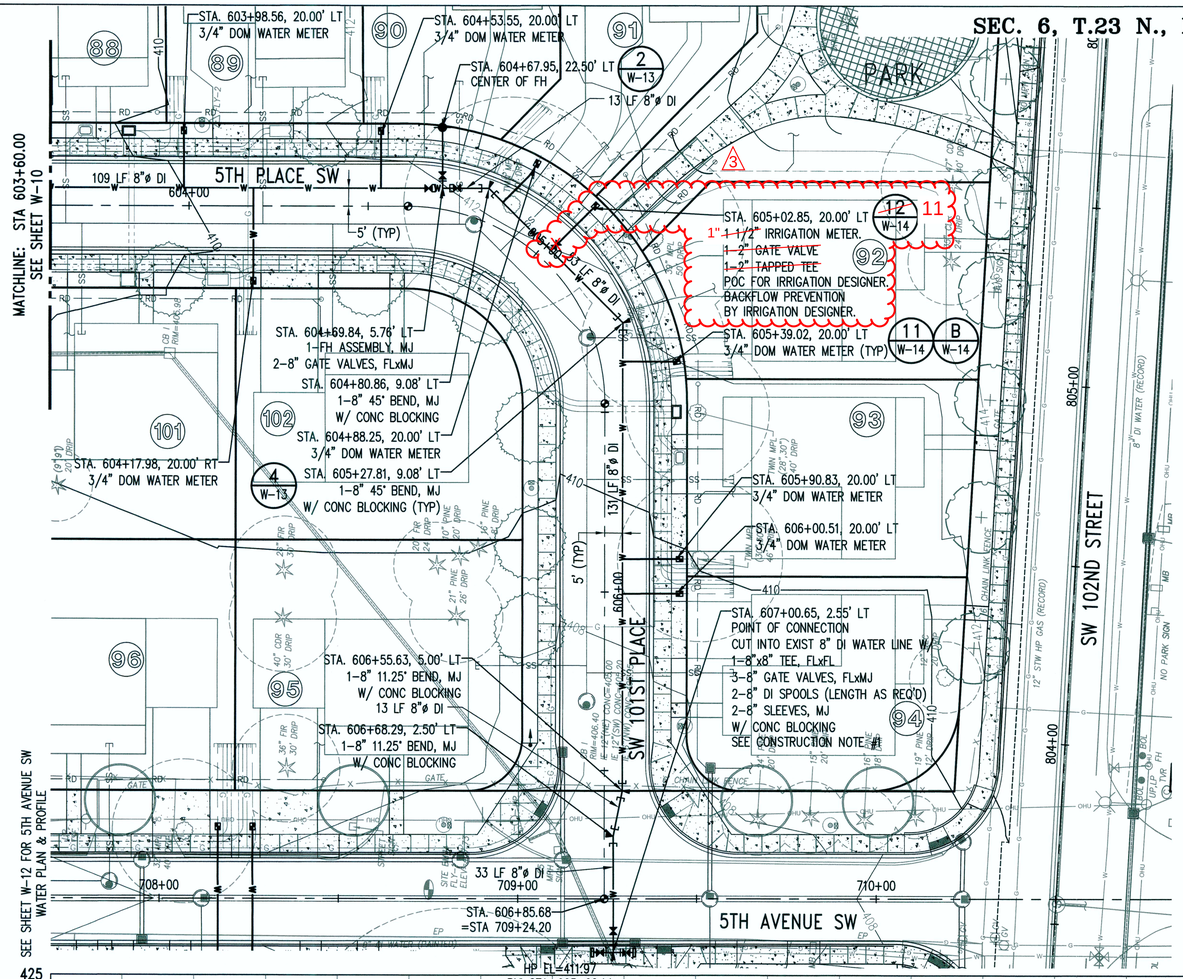
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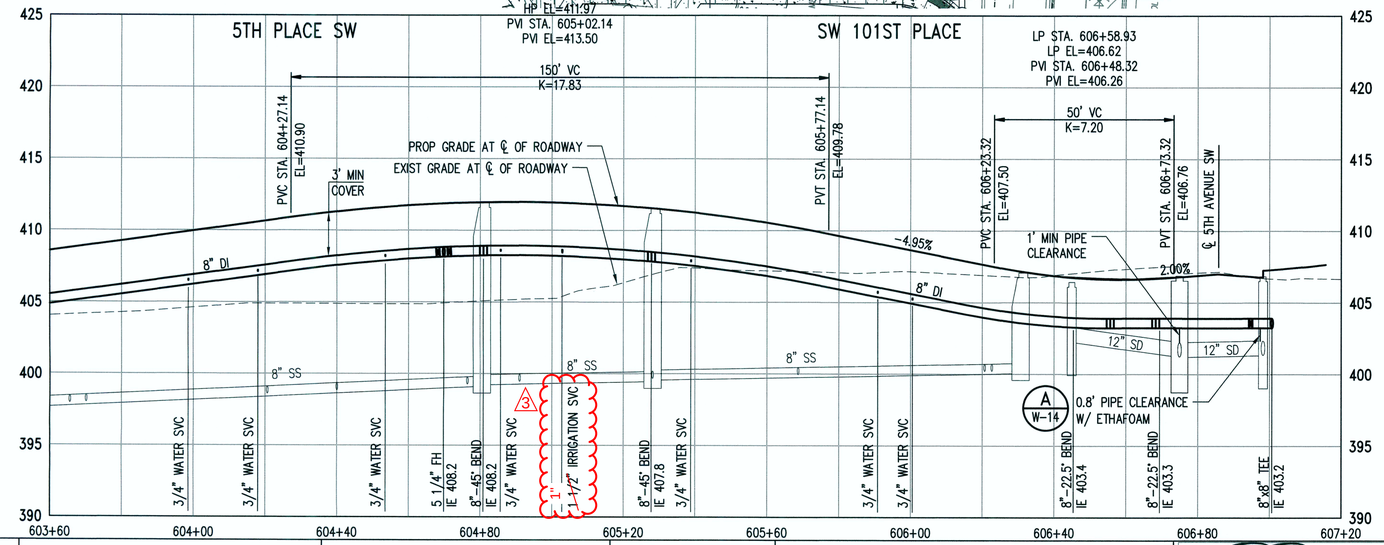
SHEET 12 OF 16

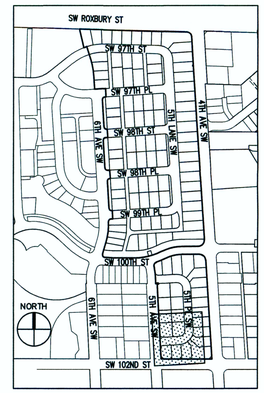
DRAWING W-10

Feb 27, 2020 - 1:01pm brianb
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SEC. 6, T.23 N., R.4E., W.M.







KEY MAP
NTS

CONSTRUCTION NOTES:

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REVISIONS

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MARK A. VELDER STATE OF WASHINGTON 24711 REGISTERED PROFESSIONAL ENGINEER
2/28/2020

KING COUNTY WATER DISTRICT NO. 20

WATER MAIN EXTENSION

Greenbridge

SCALE HORIZ: VERT:	DES.FLD.BK. NO. PG.	CST.FLD.BK. NO. PG.

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DESIGN	BJB
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CHECKED	JCG
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

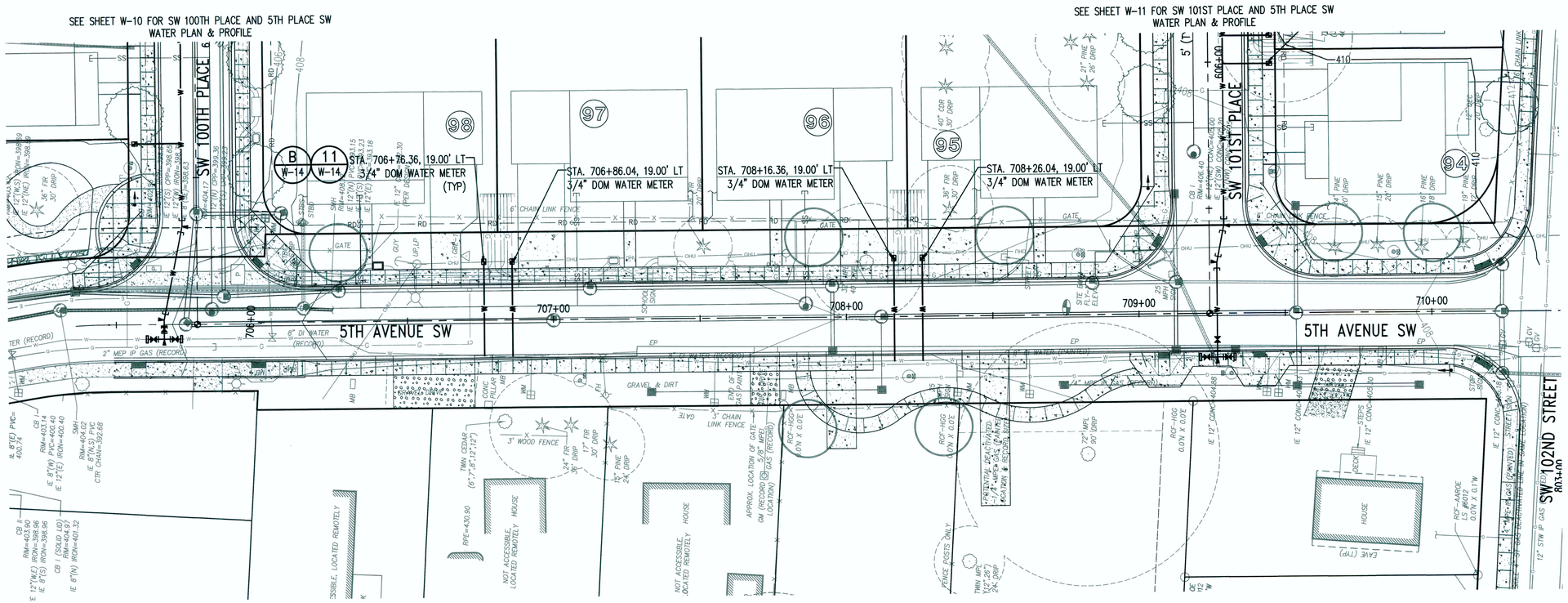
GREENBRIDGE DIVISION 8

5TH PLACE SW AND SW 101ST PLACE PLAN AND PROFILE

BASE MAP
SHEET 13 OF 16
DRAWING W-11

Feb 27, 2020 - 1:01pm brianb
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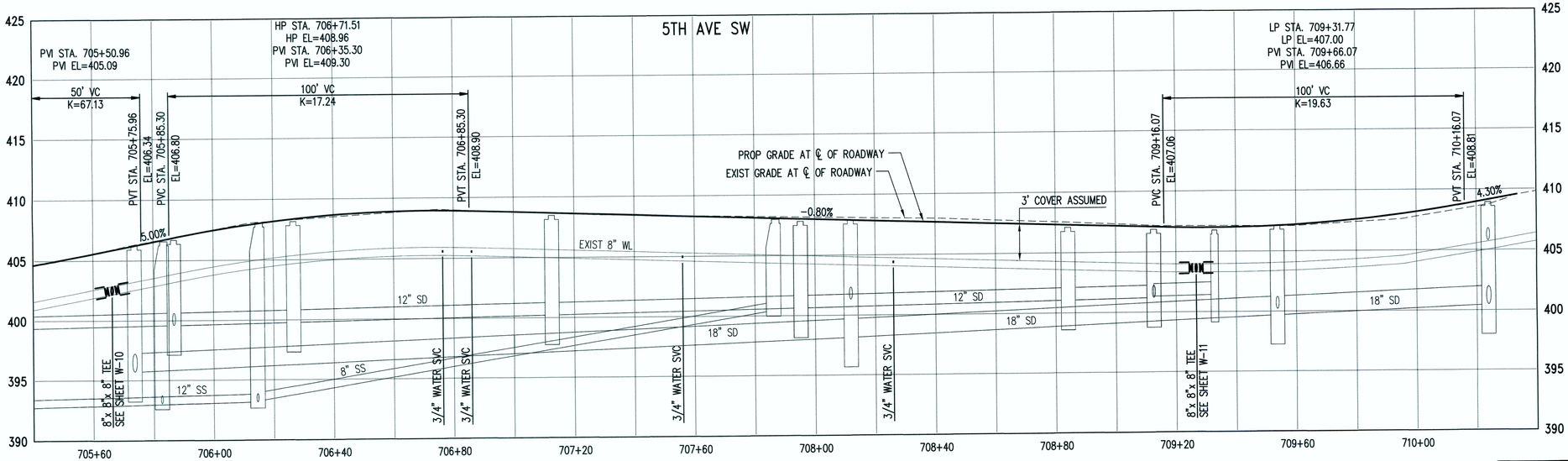
SEC. 6, T.23 N., R.4E., W.M.

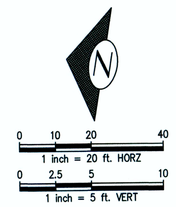


KEY MAP
NTS

CONSTRUCTION NOTES:

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Water District 20 KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: Richard D Martin DATE: 3/5/20

DEA #25270.5

NO.	BY	DATE	REVISIONS
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MARK A. VELDEN STATE OF WASHINGTON 24711 REGISTERED PROFESSIONAL ENGINEER
2/28/2020

KING COUNTY WATER DISTRICT NO. 20
WATER MAIN EXTENSION

Greenbridge

SCALE	DES.FLD.BK.	CST.FLD.BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

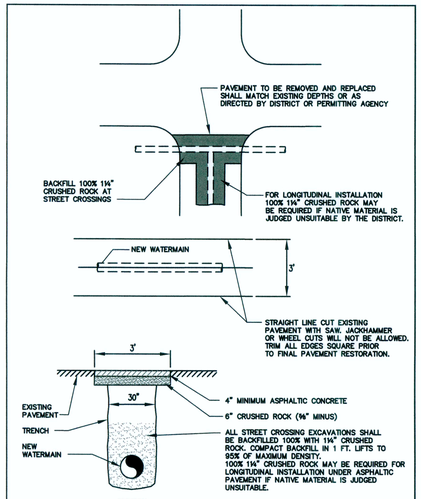
GREENBRIDGE DIVISION 8

5TH AVENUE SW PLAN AND PROFILE

BASE MAP
SHEET 14 OF 16
DRAWING
W-12

Z:\1600001-1600999\1600206 (Greenbridge)\CAD\Design\02-Design Development\WD20\09-09 WD20 11 ROAD E-N.dwg
Feb 27, 2020 - 1:00pm brianb

SEC. 6, T.23 N., R.4E., W.M.

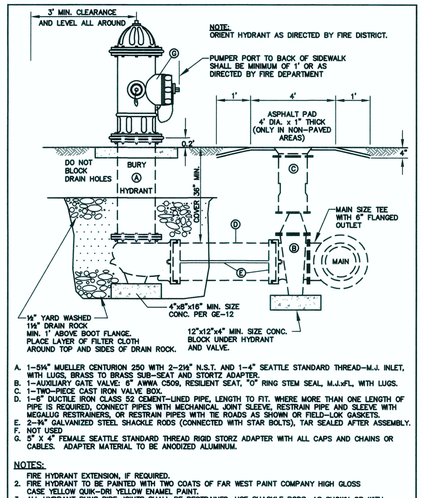


STANDARD DETAIL
PAVEMENT RESTORATION

PACE Engineering Services Company
11255 Kirkland Way, Suite 300
Kirkland, WA 98033
p. 425.827.2014 | f. 425.827.5043
Civil | Structural | Planning | Survey
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PLOTTING DATE 3-06-19 | DRAWN | CHECKED | APPROVED | DISTRICT
PLOTTING SCALE NTS | FILE NAME W-DTL-01 | DATE APPROVED | DWG. NO. W-01

PAVEMENT RESTORATION
NTS
1
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A. 1–8¾" MUELLER CENTURION 250 WITH 2–2½" N.S.T. AND 1–4" SEATTLE STANDARD THREAD–M.J. INLET, WITH LUGS, BRASS TO BRASS SUB–SEAT AND STORTZ ADAPTER.
B. 1–AUXILIARY GATE VALVE: 6" AWWA C509, RESILIENT SEAT, "O" RING STEM SEAL, M.J.xFL, WITH LUGS.
C. 1–TWO–PIECE CAST IRON VALVE BOX.
D. 1–6" DUCTILE IRON CLASS 52 CEMENT–LINED PIPE, LENGTH TO FIT. WHERE MORE THAN ONE LENGTH OF PIPE IS REQUIRED, CONNECT PIPES WITH MECHANICAL JOINT SLEEVE, RESTRAIN PIPE AND SLEEVE WITH MEGALUG RESTRAINERS, OR RESTRAIN PIPES WITH TIE RODS AS SHOWN OR FIELD–LOK GASKETS.
E. 2–¾" GALVANIZED STEEL SHACKLE RODS (CONNECTED WITH STAR BOLTS), TAR SEALED AFTER ASSEMBLY.
F. NOT USED
G. 5" X 4" FEMALE SEATTLE STANDARD THREAD RIGID STORZ ADAPTER WITH ALL CAPS AND CHAINS OR CABLES. ADAPTER MATERIAL TO BE ANODIZED ALUMINUM.

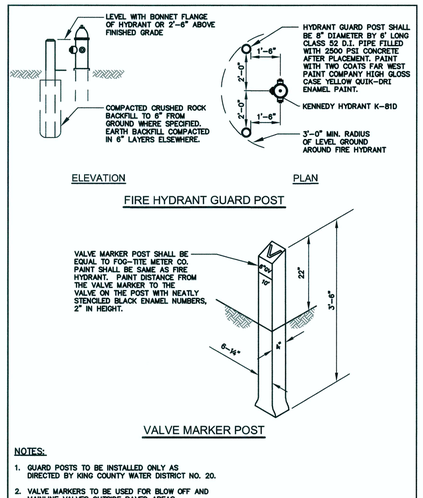
NOTES:
1. FIRE HYDRANT EXTENSION, IF REQUIRED.
2. FIRE HYDRANT TO BE PAINTED WITH TWO COATS OF FAR WEST PAINT COMPANY HIGH GLOSS CASE YELLOW QUIK–DRI YELLOW ENAMEL PAINT.
3. ALL HYDRANT RUNS PIPE JOINTS SHALL BE RESTRAINED. USE SHACKLE RODS, AS SHOWN OR WITH MEGALUG JOINT RESTRAINTS AND LOCKING GASKETS OR RESTRAINED JOINT PIPE.

STANDARD DETAIL
SHORT SIDE
FIRE HYDRANT ASSEMBLY

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PLOTTING SCALE NTS | FILE NAME W-DTL-02 | DATE APPROVED | DWG. NO. W-02

SHORT SIDE
FIRE HYDRANT ASSEMBLY
NTS
2
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NOTES:
1. GUARD POSTS TO BE INSTALLED ONLY AS DIRECTED BY KING COUNTY WATER DISTRICT NO. 20.
2. VALVE MARKERS TO BE USED FOR BLOW OFF AND MAINLINE VALVES OUTSIDE PAVED AREAS.

STANDARD DETAIL
FIRE HYDRANT GUARD POST
AND VALVE MARKER POST

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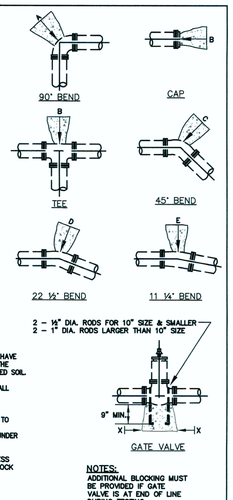
PLOTTING DATE 3-06-19 | DRAWN LC | CHECKED PP | APPROVED | DISTRICT
PLOTTING SCALE NTS | FILE NAME W-DTL-03 | DATE APPROVED | DWG. NO. W-03

FIRE HYDRANT GUARD POST
AND VALVE MARKER POST
NTS
3
–

THRUST BLOCK - TABLE

MINIMUM BEARING AREA AGAINST UNDISTURBED SOIL SQUARE FEET

PIPE SIZE	A	B	C	D	E	ONE PER
4"	3	2	2	2	2	NONE
6"	4	4	2	2	2	NONE
8"	7	6	4	2	2	4
10"	11	10	6	3	2	6
12"	16	14	9	5	3	9
14"	22	19	12	6	3	12
16"	29	25	16	8	4	16
18"	36	31	20	10	5	20
20"	45	39	24	13	6	24
22"	54	47	29	15	8	29
24"	64	56	35	18	9	35



NOTES:
1. BEARING AREA CONCRETE THRUST–BLOCK BASED ON 200 PSI PRESSURE AND SAFE SOIL BEARING LOAD OF 2000 POUNDS PER SQUARE FOOT.
2. AREAS MUST BE ADJUSTED FOR OTHER SIZE PIPE, PRESSURES & SOIL CONDITIONS.
3. CONCRETE BLOCKING SHALL BE CAST IN PLACE & HAVE MINIMUM OF 1¼ SQUARE FOOT BEARING AGAINST THE FITTING AND BE POURED AGAINST FIRM UNDISTURBED SOIL.
4. BLOCK SHALL BEAR AGAINST FITTINGS ONLY & SHALL BE CLEAR OF JOINTS TO PERMIT TAKING UP OR DISMANTLING JOINT.
5. CONTRACTOR SHALL INSTALL BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE AS WELL AS TO CONTINUOUSLY WITHSTAND OPERATING PRESSURE UNDER ALL CONDITIONS OF SERVICE.
6. CONTRACTOR TO PROVIDE 4 MIL MIN. THICKNESS POLYETHYLENE SHEET BETWEEN CONCRETE BLOCK AND FITTING.
7. 2X2X3 HALF–SIZE ECOLOGY BLOCKS MAY BE SUBSTITUTED AS APPROVED BY THE DISTRICT.

NOTES:
ADDITIONAL BLOCKING MUST BE PROVIDED IF GATE VALVE IS AT END OF LINE DURING TESTING.

STANDARD DETAIL
HORIZONTAL
CONCRETE BLOCKING

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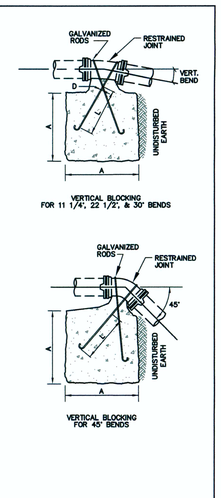
PLOTTING DATE 3-06-19 | DRAWN LC | CHECKED PP | APPROVED | DISTRICT
PLOTTING SCALE NTS | FILE NAME W-DTL-04 | DATE APPROVED | DWG. NO. W-04

HORIZONTAL
CONCRETE BLOCKING
NTS
4
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VERTICAL BLOCKING FOR 11 1/4"–22 1/2"–30° BENDS

PIPE SIZE	V	B	CU FT	A	D	L
4"	11 1/4°	8	2.0°	3/4"	1.5°	
	22 1/2°	11	2.2°			2.0°
	30°	17	2.6°			
6"	11 1/4°	11	2.2°	3/4"	2.0°	
	22 1/2°	25	2.5°			
	30°	41	3.5°			
8"	11 1/4°	16	2.5°	3/4"	2.0°	
	22 1/2°	47	3.8°			
	30°	70	4.1°	3/4"	2.5°	
12"	11 1/4°	32	3.2°	3/4"	2.0°	
	22 1/2°	88	4.5°	7/8"	3.0°	
	30°	132	5.1°			
16"	11 1/4°	70	4.1°	7/8"	3.0°	
	22 1/2°	184	5.7°	1 1/8"	4.0°	
	30°	275	6.5°	1 1/4"		
20"	11 1/4°	91	4.5°	7/8"	3.0°	
	22 1/2°	225	6.1°	1 1/4"	4.0°	
	30°	330	6.9°	1 3/8"	4.5°	
24"	11 1/4°	128	5.0°	1"	3.5°	
	22 1/2°	320	6.8°	1 3/8"	4.5°	
	30°	480	7.9°	1 5/8"	5.5°	
VERTICAL BLOCKING FOR 45° BENDS						
4"	45°	30	3.1°	3/4"	2.0°	
6"		68	4.1°			
8"		123	5.0°			
12"		232	6.1°	3/4"	2.5°	
16"		478	7.8°	1 1/8"	4.0°	
20"		560	8.2°	1 1/4"		
24"		820	9.4°	1 3/8"	4.5°	

NOTES:
1. CONCRETE BLOCKING BASED ON 200 PSI PRESSURE AND 2500 PSI CONCRETE.

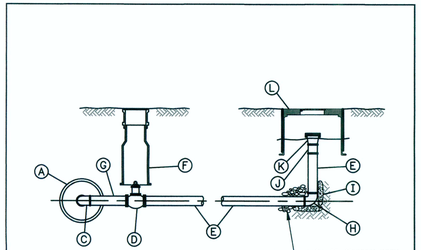


STANDARD DETAIL
VERTICAL
CONCRETE BLOCKING

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PLOTTING SCALE NTS | FILE NAME W-DTL-05 | DATE APPROVED | DWG. NO. W-05

VERTICAL
CONCRETE BLOCKING
NTS
5
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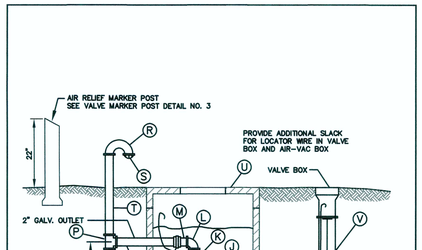
MARK	QUANTITY	ITEM DESCRIPTION
A	1	CAST IRON CAP OR PLUG WITH 2" I.P.T. TAP
B	1	2" CLOSE NIPPLE – BRASS
C	1	2" 90° ELBOW – THREADED – BRASS
D	1	2" GATE VALVE – RESILIENT SEAT
E	2	2" GALV. IRON PIPE – LENGTH AS REQUIRED
F	1	VALVE BOX
G	1	2" BRASS PIPE – 12" TO 18" LONG
H	1	2" 90° ELBOW WITH ¼" DRAIN HOLE – THREADED – GALV.
I	2	CONCRETE THRUST BLOCK – POURED IN PLACE
J	1	2" ADAPTER – F.I.P. x F.I.P. – GALV.
K	1	2" M.I.P. x 2½" M.I.P. HOSE CONNECTION AND 2½" CAP
L	1	MID–STATES METER BOX AND LID 1324–18

STANDARD DETAIL
BLOW–OFF ASSEMBLY

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PLOTTING SCALE NTS | FILE NAME W-DTL-06 | DATE APPROVED | DWG. NO. W-06

BLOW OFF ASSEMBLY
NTS
6
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SHEET 1 OF 2

STANDARD DETAIL
AIR VACUUM AND RELIEF
VALVE ASSEMBLY

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PLOTTING DATE 3-06-19 | DRAWN | LC | CHECKED | PP | APPROVED | DISTRICT
PLOTTING SCALE NTS | FILE NAME W-DTL-07&08 | DATE APPROVED | DWG. NO. W-07

AIR VACUUM AND RELIEF
VALVE ASSEMBLY
NTS
7
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AIR AND VACUUM RELIEF MATERIAL

MARK	QUANTITY	ITEM DESCRIPTION
A	2	2" BRASS NIPPLE, LENGTH AS REQUIRED
B	1	M.J. TAPPING SLEEVE ON NEW MAIN OR FORD DOUBLE STRAP STAINLESS STEEL SADDLE
C	1	2" FORD CORP STOP FB1600 AWWA x F.I.P.
D	2	2" BRASS 90° STREET ELBOW (2 REQUIRED)
E	1	2" HDPE DR 9 CTS 200 PSI ASTM D2737 WITH 14 GAUGE LOCATING WIRE
F	1	2" RESILIENT SEAT GATE VALVE WITH 2" OPERATING NUT AND VALVE BOX
G	1	2" BRASS 90° BEND F.I.P. x F.I.P.
H	1	2" BRASS ADAPTER FORD CB4 PACK x MIP
J	1	2" APCO AIR–VAC VALVE 145C
K	1	2" GALV. IRON PIPE – LENGTH = 6" OR LENGTH NEEDED
L	1	2" GALV. IRON 90° ELBOW
M	1	2" GALV. NIPPLE, LENGTH = 3"
N	1	2" GROUND JOINT UNION, GRINNEL FIG. 463
P	1	2" GALV. TEE
Q	1	2" GALV. CAP, WITH 1" HOLE FOR DRAINAGE
R	1	2" GALV. RETURN BEND, OPEN PATTERN, PAINT BLUE ABOVE SUBGRADE
S	1	2" BEEHIVE STRAINER
T	3	2" GALV. IRON PIPE, LENGTH AS REQUIRED, PAINT BLUE ABOVE SUBGRADE
U	1	MID–STATES METER BOX 1730–18 WITH LID
V	1	VALVE BOX WITH LID

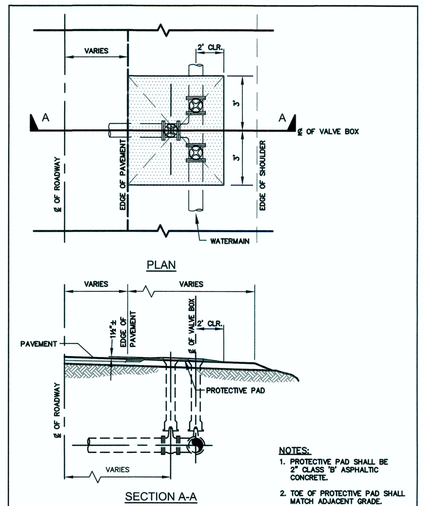
SHEET 2 OF 2

STANDARD DETAIL
AIR VACUUM AND RELIEF
VALVE ASSEMBLY

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PLOTTING SCALE NTS | FILE NAME W-DTL-07&08 | DATE APPROVED | DWG. NO. W-08

AIR VACUUM AND RELIEF
VALVE ASSEMBLY
NTS
8
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NOTES:
1. PROTECTIVE PAD SHALL BE 2" CLASS 'B' ASPHALTIC CONCRETE.
2. TOE OF PROTECTIVE PAD SHALL MATCH ADJACENT GRADE.

STANDARD DETAIL
VALVE BOX PROTECTIVE PAD

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PLOTTING DATE 3-06-19 | DRAWN | CHECKED | APPROVED | DISTRICT
PLOTTING SCALE NTS | FILE NAME W-DTL-09 | DATE APPROVED | DWG. NO. W-09

VALVE BOX PROTECTIVE PAD
NTS
9
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811 Call 811 two business days before you dig

Water District 20 KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: Michael D. Hopkins DATE: 3/5/20

DEA #25270.5

NO.	BY	DATE	DESCRIPTION
			REVISIONS
2		02/27/20	REVISED PER KCWD#20 COMMENTS
1		02/05/20	ORIGINAL SUBMITTAL

kpff
1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com

MARK A. VELDER STATE OF WASHINGTON 24711 REGISTERED PROFESSIONAL ENGINEER
2/28/2020

KING COUNTY
WATER DISTRICT NO. 20
WATER MAIN EXTENSION

Greenbridge

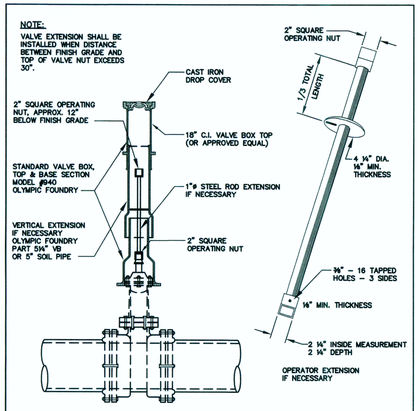
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HORIZ:	NO.	NO.
VERT:	PG.	PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
STANDARD DETAILS

BASE MAP
SHEET 15 OF 16
DRAWING
W–13

Feb 27, 2020 - 10:02am brianb
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VALVE OPERATING NUT EXTENSION

LENGTH AS REQUIRED TO PUT OPERATING NUT, APPROXIMATELY 12" FROM SURFACE. EXTENSIONS ARE REQUIRED WHEN THE VALVE NUT IS MORE THAN THREE (3) FEET BELOW FINISHED GRADE. EXTENSIONS ARE TO BE A MINIMUM OF ONE (1) FOOT LONG. ONLY ONE EXTENSION TO BE USED PER VALVE.

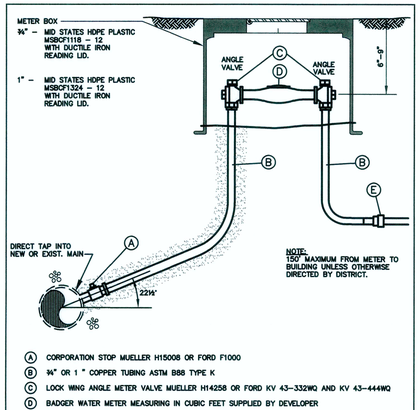
NOTE:
1. ALL EXTENSIONS ARE TO BE MADE OF STEEL, SIZED AS NOTED, AND PAINTED WITH TWO COATS OF METAL PAINT.

PACE Engineering Marlow Company, 11255 Kirkland Way, Suite 300, Kirkland, WA 98033, p. 425.827.2014 | f. 425.827.5043, Civil | Structural | Planning | Survey, pacenwpls.com

STANDARD DETAIL
VALVE BOX AND
VALVE OPERATING EXTENSION

PLOTTED DATE	DRAWN	CHECKED	APPROVED	DISTRICT
03-06-19				
PLOTTING SCALE	FILE NAME		DATE APPROVED	DWG. NO.
NTS	W-DTL-10			W-10

VALVE BOX AND
VALVE OPERATING EXTENSION
NTS
10



(A) CORPORATION STOP MUELLER H15008 OR FORD F1000
(B) ¾" OR 1 " COPPER TUBING ASTM B88 TYPE K
(C) LOCK WING ANGLE METER VALVE MUELLER H14258 OR FORD KV 43–332WQ AND KV 43–444WQ
(D) BADGER WATER METER MEASURING IN CUBIC FEET SUPPLIED BY DEVELOPER
(E) COUPLING AS REQUIRED

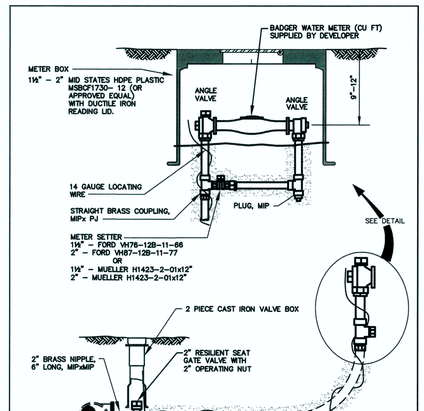
NOTES:
1. BACKFILL SHALL BE FIRMLY COMPACTED UNDER CORPORATION STOP AND COPPER TUBING IN THE WATERMAIN TRENCH AREA.
2. WHEN THE CORPORATION ANGLE EXCEEDS 22½°, USE A PIPE BENDER OR FORD BENDS.

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STANDARD DETAIL
3/4" AND 1" WATER SERVICE

PLOTTED DATE	DRAWN	CHECKED	APPROVED	DISTRICT
03-06-19	LC	PP	JB	JB
PLOTTING SCALE	FILE NAME		DATE APPROVED	DWG. NO.
NTS	W-DTL-12			W-12

3/4" AND 1" WATER SERVICE
NTS
11

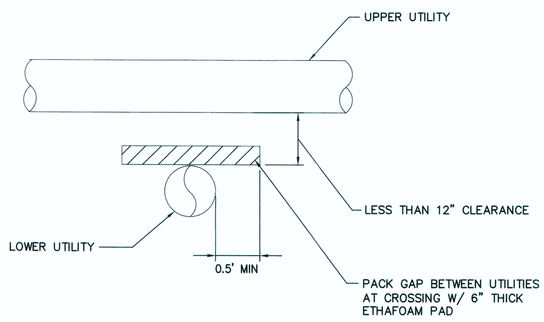


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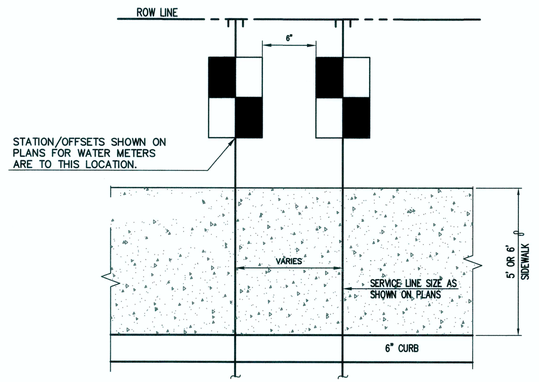
STANDARD DETAIL
1-1/2" AND 2" WATER SERVICE

PLOTTED DATE	DRAWN	CHECKED	APPROVED	DISTRICT
03-06-19	LC	PP	JB	JB
PLOTTING SCALE	FILE NAME		DATE APPROVED	DWG. NO.
NTS	W-DTL-13			W-13

1-1/2" AND 2" WATER SERVICE
NTS
12



ETHAFOAM DETAIL
NTS
A



WATER METER DETAIL
NTS
B

Call 811 two business days before you dig

Water District 20
KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: Michael D. Matlock DATE: 3/5/20

DEA #25270.5

NO.	BY	DATE	REVISIONS
2		02/27/20	REVISED PER KCHA@20 COMMENTS
1		02/05/20	ORIGINAL SUBMITTAL

kpff, 1601 5th Avenue, Suite 1600, Seattle, WA 98101, 206.622.5822, www.kpff.com

MARK A. VELLER, STATE OF WASHINGTON, 24TH REGISTERED PROFESSIONAL ENGINEER, 2/28/2020

KING COUNTY
WATER DISTRICT NO. 20
WATER MAIN EXTENSION

Greenbridge

SCALE	DES. FLD. BK.	CST. FLD. BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
STANDARD DETAILS

BASE MAP
SHEET 16 OF 16
DRAWING
W-14

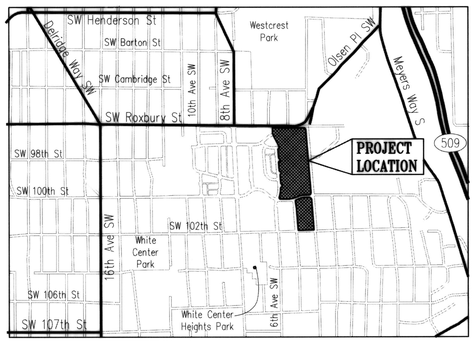
Feb 27, 2020 - 10:02am brlamb
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GREENBRIDGE DIVISION 8

INFRASTRUCTURE

SANITARY SEWER IMPROVEMENT PLANS

SEC. 6, T.23 N., R.4E., W.M.
King County, Washington
NOVEMBER 2018
PERMIT SUBMITTAL



VICINITY MAP
N.T.S.

Contract No.

PROJECT DEVELOPER

KING COUNTY HOUSING AUTHORITY
600 ANDOVER PARK WEST
SEATTLE, WA. 98188-3326
TELEPHONE: (206) 574-1196
CONTACT PERSON : JOHN ELIASON

PROJECT ENGINEER

KPFF CONSULTING ENGINEERS
1601 FIFTH AVENUE, SUITE 1600
SEATTLE, WASHINGTON 98101
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Nov 20, 2018 - 10:16am brianb

SEC. 6, T.23 N., R.4E., W.M.

SOUTHWEST SUBURBAN SEWER DISTRICT
RECORD DRAWINGS
APPROVED Rick Schulz
1-15-2019
DATE

GENERAL NOTES

1. A COPY OF THE APPROVED PLAN SHALL BE ON SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
2. THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR WORK WITHIN THE PUBLIC RIGHT OF WAY.
3. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL SCHEDULE AND ATTEND A PRE-CONSTRUCTION CONFERENCE WITH SOUTHWEST SUBURBAN SEWER DISTRICT. THE CONTRACTOR SHALL NOTIFY THE OWNER'S PROFESSIONAL ENGINEERING CONSULTANT OF THE PRECONSTRUCTION MEETING TIME AND LOCATION.
4. VERTICAL DATUM:
   VERTICAL DATUM: NAVD 88

   BENCH MARK "B" SOUTHERLY TOP FLANGE BOLT BETWEEN THE LETTERS E & L IN THE WORD MUELLER, ON FIRE HYDRANT AT S.W. CORNER OF 8TH AVE S.W. & S.W. 102ND ST. ELEVATION = 407.61'

   BENCH MARK "C" CHISELED SQUARE AT INTERSECTION OF BACK OF CONCRETE WALKS AND BACK OF CURBS AT N.E. CORNER 4TH AVE. S.W. & S.W. 102ND ST. ELEVATION = 423.37'.
5. ALL LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN.
6. THE CONTRACTOR SHALL LOCATE AND PROTECT ALL CASTINGS AND UTILITIES DURING CONSTRUCTION AND SHALL CONTACT THE UNDERGROUND UTILITIES LOCATOR SERVICE (1-800-424-5555) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
7. THE CONTRACTOR SHALL ADJUST ALL EXISTING MANHOLE RIMS, DRAINAGE STRUCTURE LIDS, VALVE BOXES, AND UTILITY ACCESS STRUCTURES TO FINISH GRADE WITHIN AREAS AFFECTED BY THE PROPOSED IMPROVEMENTS.
8. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL POSITION OF ALL PROPOSED UTILITY POINTS OF CONNECTION, AND SHALL POTHOLE ALL CROSSINGS WITH EXISTING UTILITIES PRIOR TO THE START OF DEMOLITION AND INSTALLATION OF PROPOSED UTILITIES.
9. SURVEY PREPARED BY GOLDSMITH LAND DEVELOPMENT SERVICES. 1215 114TH AVE SE, BELLEVUE, WA. PH# (425)-462-1080

SWSSD GENERAL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE SOUTHWEST SUBURBAN SEWER DISTRICT WHICH ARE CONTAINED IN A BOUND VOLUME ENTITLED, "DEVELOPER PROJECT MANUAL".
2. EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY, AND IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE CORRECT UTILITY LOCATIONS AND TO PRESERVE AND PROTECT ALL EXISTING UTILITIES. FOR UTILITY LOCATIONS IN KING COUNTY, CALL 1-800-424-5555 AT LEAST 2 BUSINESS DAYS PRIOR TO CONSTRUCTION. SOUTHWEST SUBURBAN SEWER DISTRICT AND THE ENGINEER, SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS. ALL UTILITIES DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION THAT IS BETTER THAN THAT PRIOR TO THE START OF CONSTRUCTION.
3. ALL SIDE SEWER STUBS SHALL BE 6-INCH DIAMETER PIPE CONSTRUCTED AT A MINIMUM SLOPE OF 2.00%, UNLESS OTHERWISE NOTED.
4. ALL SIDE SEWER STUBS SHALL EXTEND A MINIMUM OF 5 FEET INSIDE THE PROPERTY LINE AND THE ENDS MARKED AS DESCRIBED IN SWSSD STANDARD DETAIL 10.
5. 15-FOOT EASEMENTS: 7-1/2 FEET EACH SIDE OF SANITARY SEWER LINE AND/OR APPURTENANCES SHALL BE FURNISHED BY THE DEVELOPER WHEN THE SEWERS ARE LOCATED ON OTHER THAN PUBLIC RIGHT-OF-WAYS.
6. PLAN AND PROFILE INFORMATION AS FURNISHED BY THE DEVELOPER OR HIS ENGINEER.
7. MINIMUM SEPARATION OF POTABLE WATER MAINS AND SANITARY SEWER LINES SHALL BE IN ACCORDANCE WITH SECTION C1-9.1 OF THE "CRITERIA FOR SEWAGE WORKS DESIGN" PUBLISHED BY THE WASHINGTON STATE DEPARTMENT OF ECOLOGY AS REVISED DECEMBER 1998.
8. A PLUG SHALL BE PLACED IN THE OUTLET PIPE OF THE EXISTING MANHOLE WHICH IS TO BE CONNECTED TO OR THE OUTLET PIPE OF THE FIRST NEW MANHOLE CONSTRUCTED. A TIGHTLINE BYPASS MAY BE REQUIRED IN PLACE OF THE PLUG. THIS PLUG OR BYPASS SHALL REMAIN IN PLACE AND MAY NOT BE REMOVED WITHOUT THE PERMISSION OF THE SOUTHWEST SUBURBAN SEWER DISTRICT. REMOVAL WILL RESULT IN FORFEITURE OF SYSTEM ISOLATION DEPOSIT.
9. ALL PIPES ENTERING/LEAVING MANHOLES SHALL BE ALIGNED WITH THE CENTER OF THE MANHOLE. MANHOLE CHANNELS SHALL BE SHAPED TO ALLOW PLACEMENT AND USE OF THE DISTRICT'S TELEVISION INSPECTION EQUIPMENT. ALL CHANNELS SHALL BE CONSTRUCTED TO THE DEPTH AND DIAMETER OF THE SEWER PIPES.
10. FOR CONNECTIONS INTO EXISTING MANHOLES, WALL AND SHELF MUST BE CORE DRILLED..
11. THE DEVELOPER SHALL BE RESPONSIBLE FOR ACQUIRING ALL NECESSARY EASEMENTS AND AGREEMENTS PRIOR TO CONSTRUCTION. THE DEVELOPER SHALL BE RESPONSIBLE FOR ACQUIRING ALL EASEMENT RELEASES UPON COMPLETION OF CONSTRUCTION AND PRIOR TO FINAL PROJECT ACCEPTANCE.
12. ALL WORK WITHIN THE CITY OR COUNTY RIGHT-OF-WAY SHALL CONFORM WITH ALL APPLICABLE REQUIREMENTS AS SET FORTH BY THE ASSOCIATED AGENCY. EXISTING ASPHALT SHALL BE NEAT LINE CUT PRIOR TO EXCAVATION. ALSO SEE THE RIGHT-OF-WAY CONSTRUCTION PERMIT OBTAINED FOR THIS PROJECT.
13. ALL SEWER PIPE INSTALLED SHALL BE TESTED FOR LEAKAGE PER SOUTHWEST SUBURBAN SEWER DISTRICT STANDARDS.
14. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD PRIOR TO THE START OF CONSTRUCTION AND SHALL BE ATTENDED BY THE CONTRACTOR, SWSSD REPRESENTATIVES, AND OTHER INTERESTED AGENCIES.
15. AT THE DEVELOPER'S EXPENSE THE DISTRICT SHALL PERFORM VIDEO INSPECTION OF ALL SANITARY SEWER MAINS PRIOR TO FINAL ACCEPTANCE. THE CONTRACTOR SHALL CORRECT ALL DEFICIENCIES FOUND DURING THE INSPECTION.
16. ANY CHANGES TO THIS DESIGN SHALL BE APPROVED BY SOUTHWEST SUBURBAN SEWER DISTRICT AND THE ENGINEER PRIOR TO INSTALLATION.
17. ALL NEW MANHOLES SHALL HAVE ALL JOINTS ENCAPSULATED USING 12 INCH WIDE STRIP OF BEST SEAL WRAP SEALANT.

LEGEND AND ABBREVIATIONS

X / X-X	DETAIL REFERENCE NUMBER / SECTION SHEET
B/W	BACK OF WALK
CL	CENTERLINE
CTR	CENTER
EL/ELEV	ELEVATION
G	GAS
GD	GREEN DRAINAGE
EX, EXIST.	EXISTING
IE	INVERT ELEVATION
PL	PROPERTY LINE
P.O.C.	POINT OF CONNECTION
R/W	RIGHT OF WAY
SCL	SEATTLE CITY LIGHT
SD	STORM DRAINAGE
SL	SLEEVE
SS	SANITARY SEWER
STD(S)	STANDARD(S)
SWSSD	SOUTHWEST SUBURBAN SEWER DISTRICT
TB	THRUST BLOCK
WL	WATER LINE
W/	WITH
	FIRE HYDRANT
	WATER METER
	PROPOSED WATER SYSTEM
	EXISTING WATER SYSTEM
	PROPOSED SANITARY SEWER MANHOLE
	EXISTING SANITARY SEWER MANHOLE
	FINISHED GRADE 10' CONTOUR
	FINISHED GRADE 2' CONTOUR
	EXISTING CONTOUR
	FRANCHISE UTILITIES

DRAWING INDEX

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SS-3	5TH AVENUE SW PLAN AND PROFILE
SS-4	5TH AVENUE SW PLAN AND PROFILE
SS-5	SW 99TH PLACE PLAN AND PROFILE
SS-6	SW 97TH PLACE PLAN AND PROFILE
SS-7	SW 98TH STREET PLAN AND PROFILE
SS-8	SW 98TH PLACE PLAN AND PROFILE
SS-9	TRACT A-801 PLAN AND PROFILE
SS-10	TRACT A-802 PLAN AND PROFILE
SS-11	TRACT A-803 PLAN AND PROFILE
SS-12	TRACT A-804 PLAN AND PROFILE
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SS-16	TRACT A-806 PLAN AND PROFILE
SS-17	SW 101ST PLACE AND 5TH PLACE SW PLAN AND PROFILE
SS-18	5TH PLACE SW AND SW 102ND PLACE PLAN AND PROFILE
SS-19	5TH AVENUE SW PLAN AND PROFILE
SS-20	SANITARY SEWER DETAILS
SS-21	SANITARY SEWER DETAILS

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1	4/5/17	BJB	BJB	AGC	ORIGINAL SUBMITTAL

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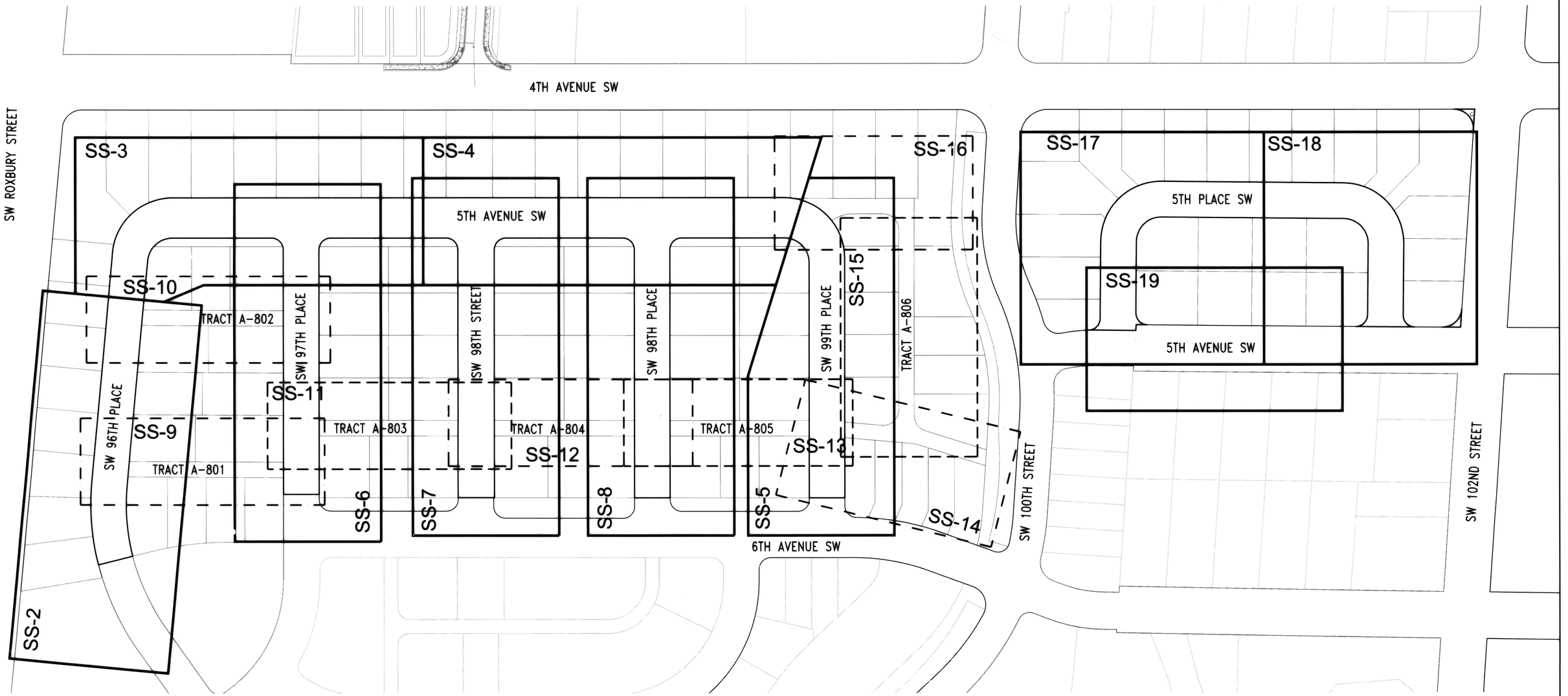
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SANITARY SEWER NOTES

SHEET
SS-1

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APPROVED Rich Schule
1-15-2019
DATE



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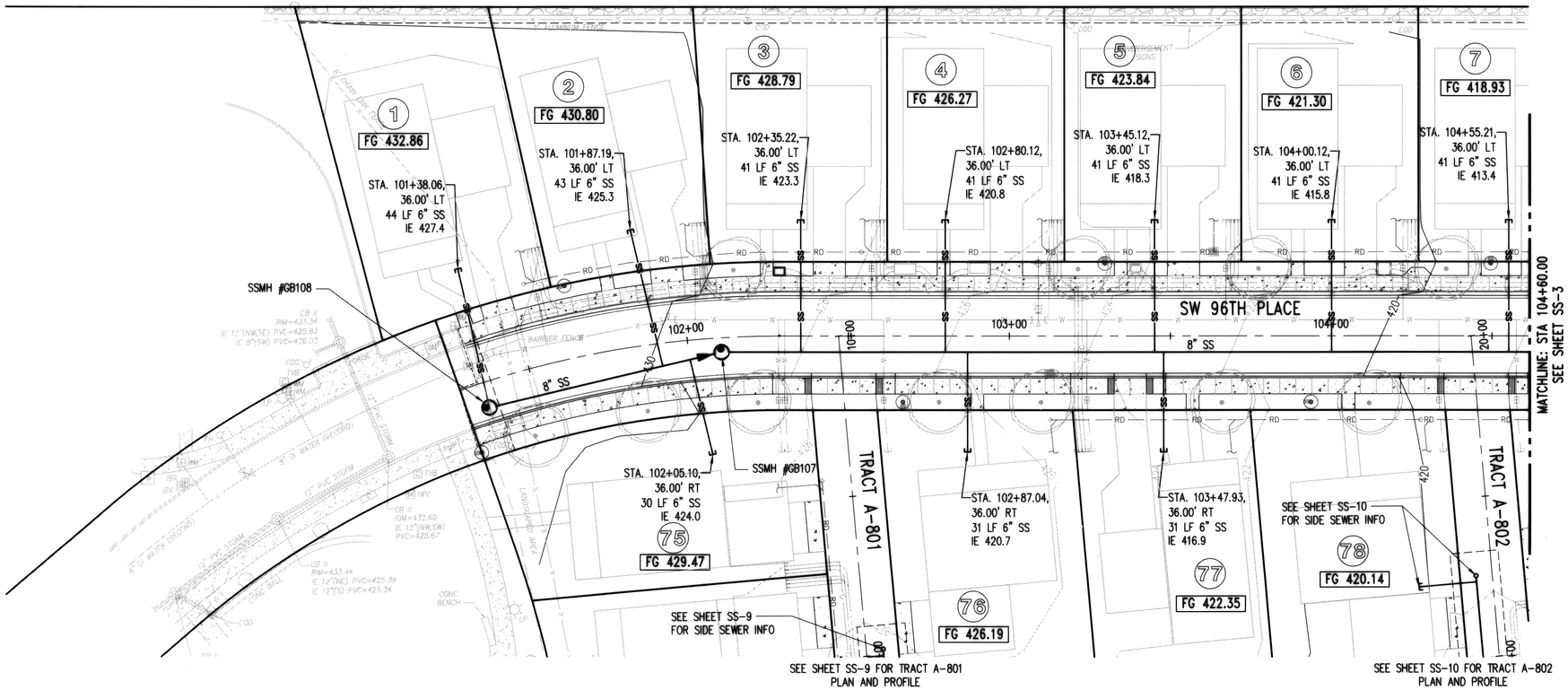
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OVERALL PLAN

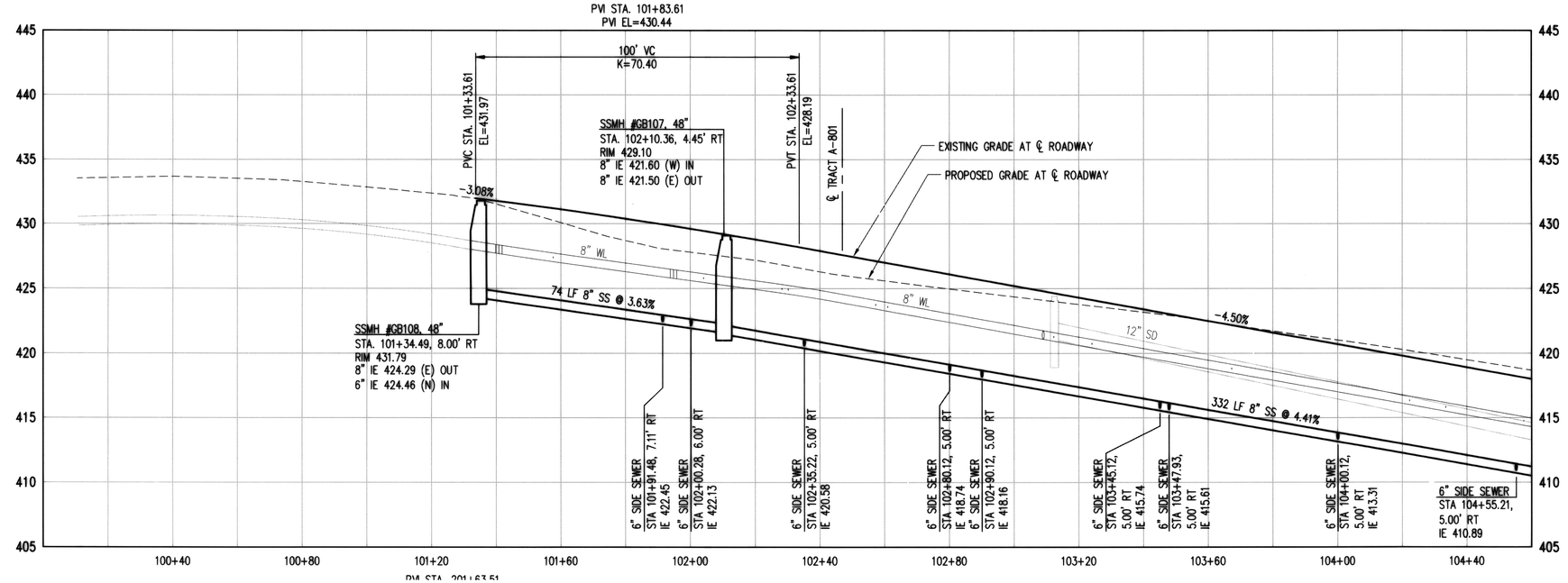
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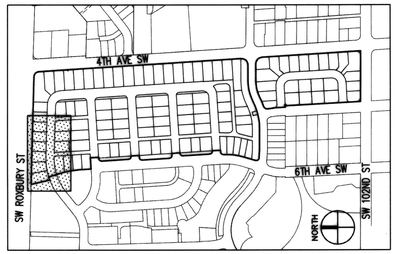
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SOUTHWEST SUBURBAN SEWER DISTRICT
RECORD DRAWINGS
APPROVED Ritch Schulz
1-15-2019
DATE







KEY MAP
NTS

N
0 10 20 40
1 inch = 20 ft. HORZ
0 2.5 5 10
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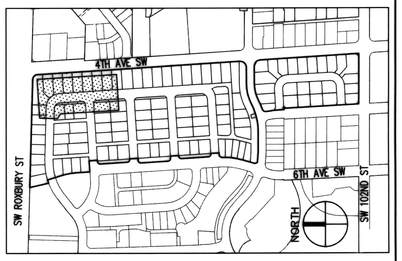
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SW 96TH PLACE PLAN AND PROFILE

SHEET
SS-2

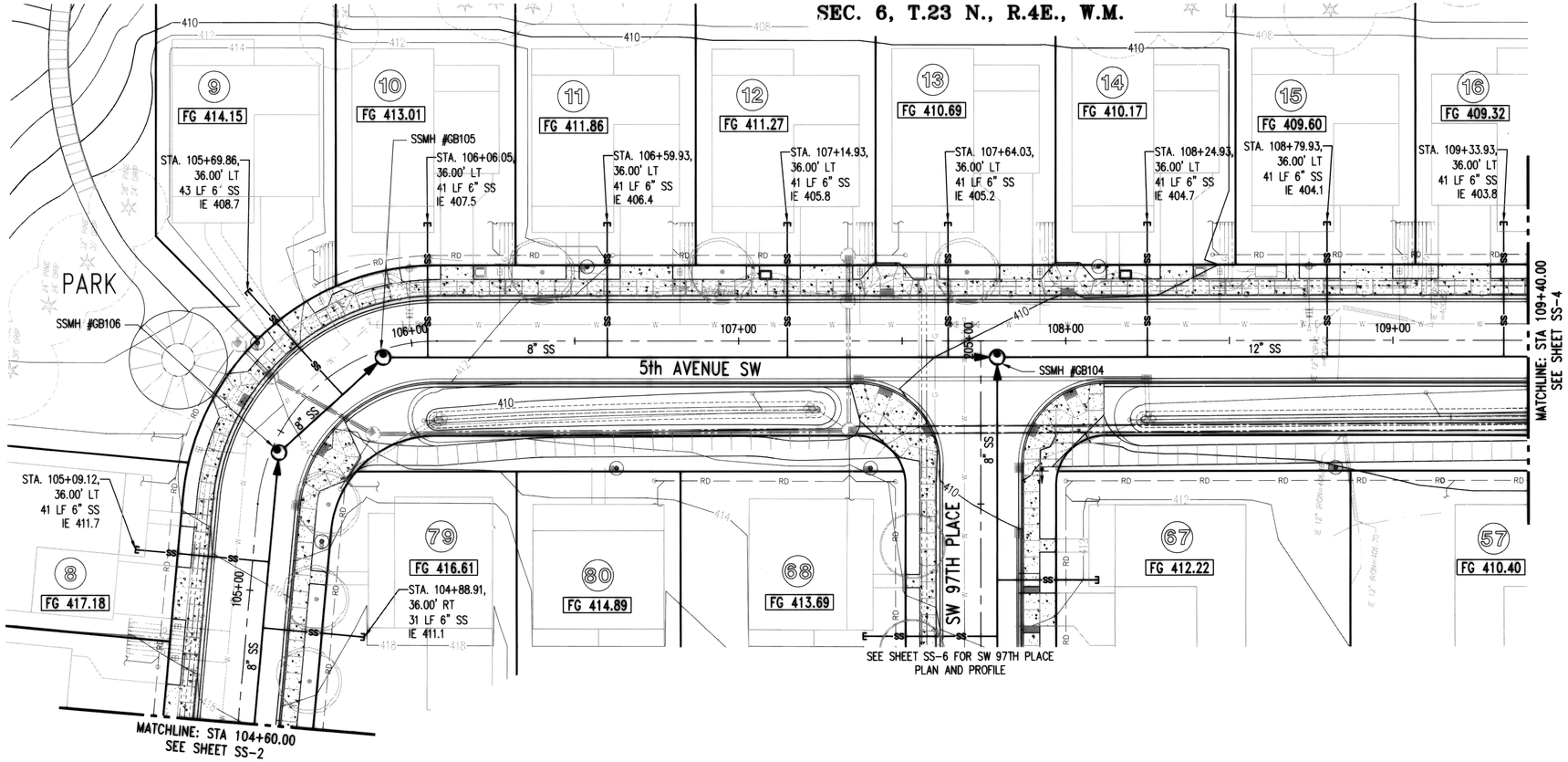
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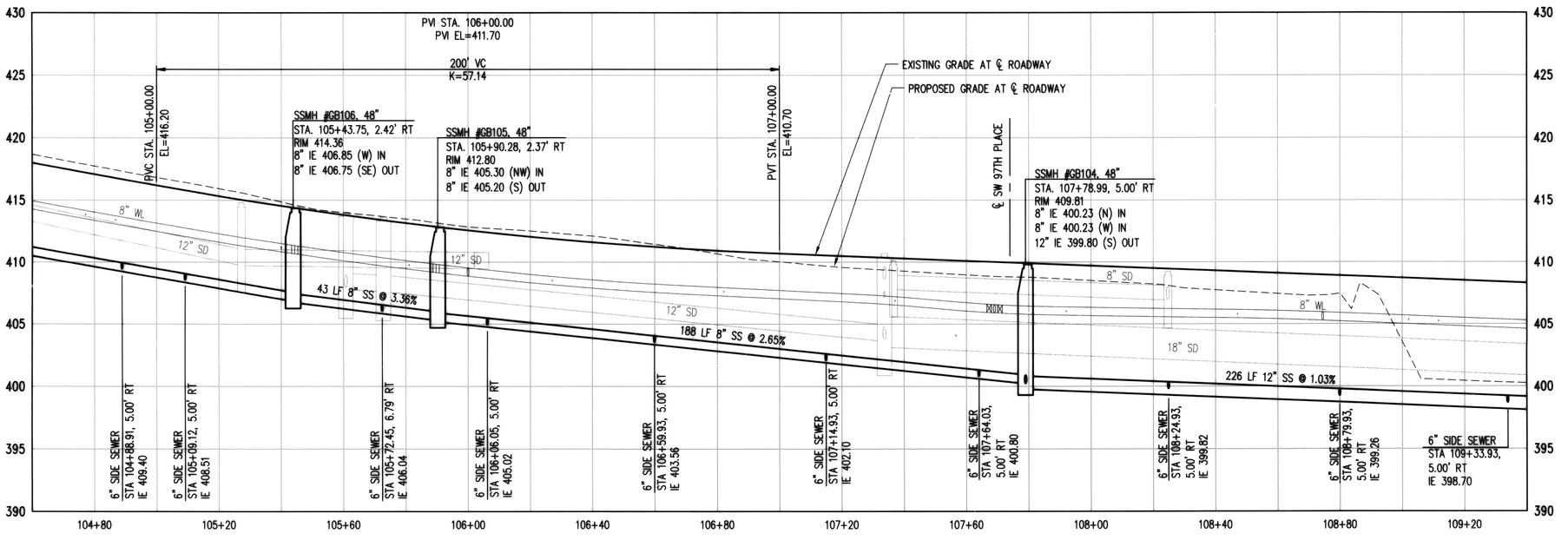
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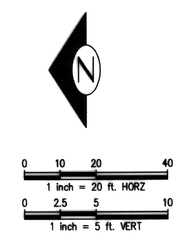
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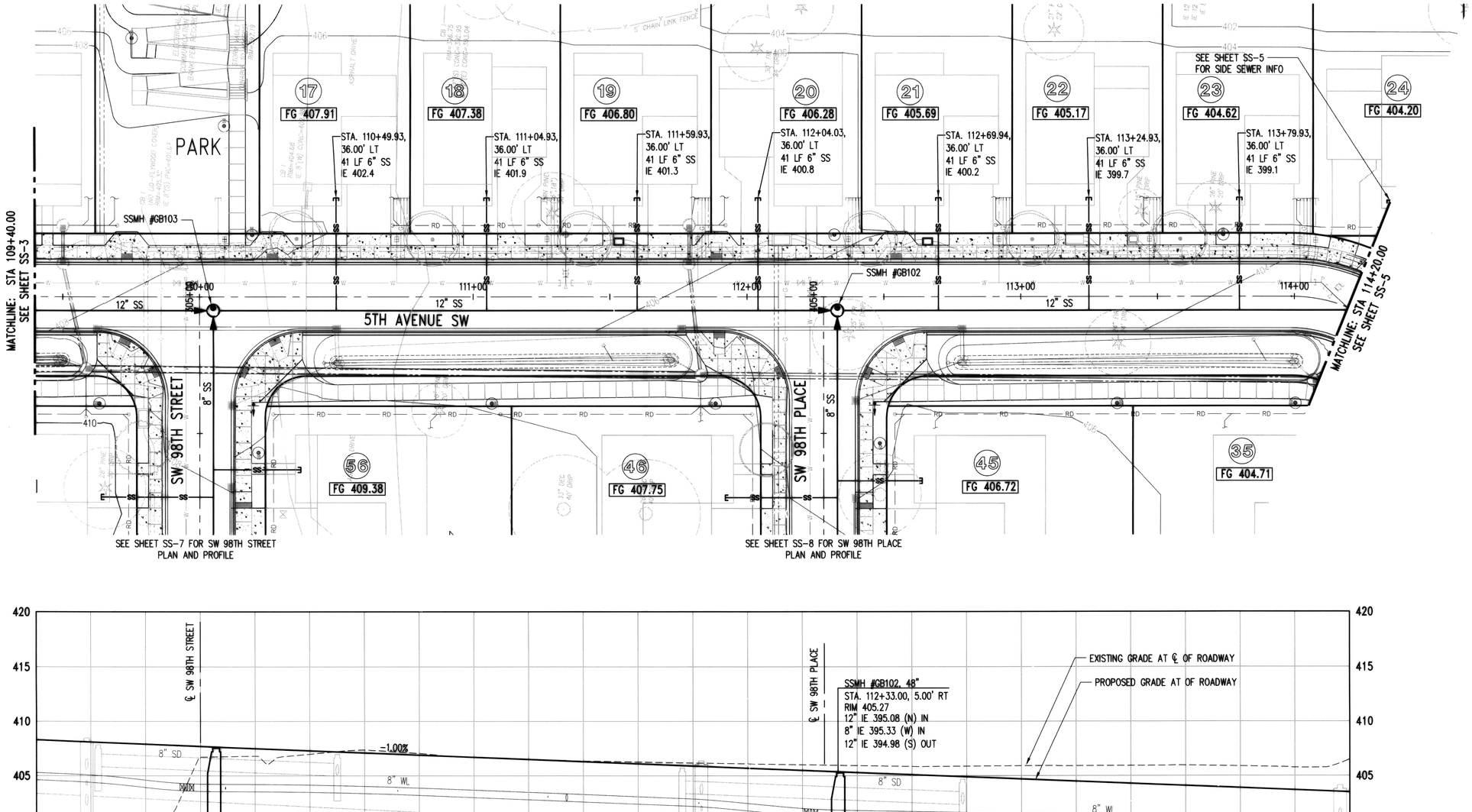
5TH AVENUE SW PLAN AND PROFILE

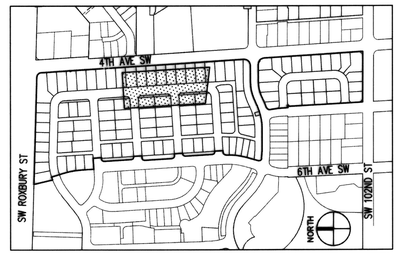
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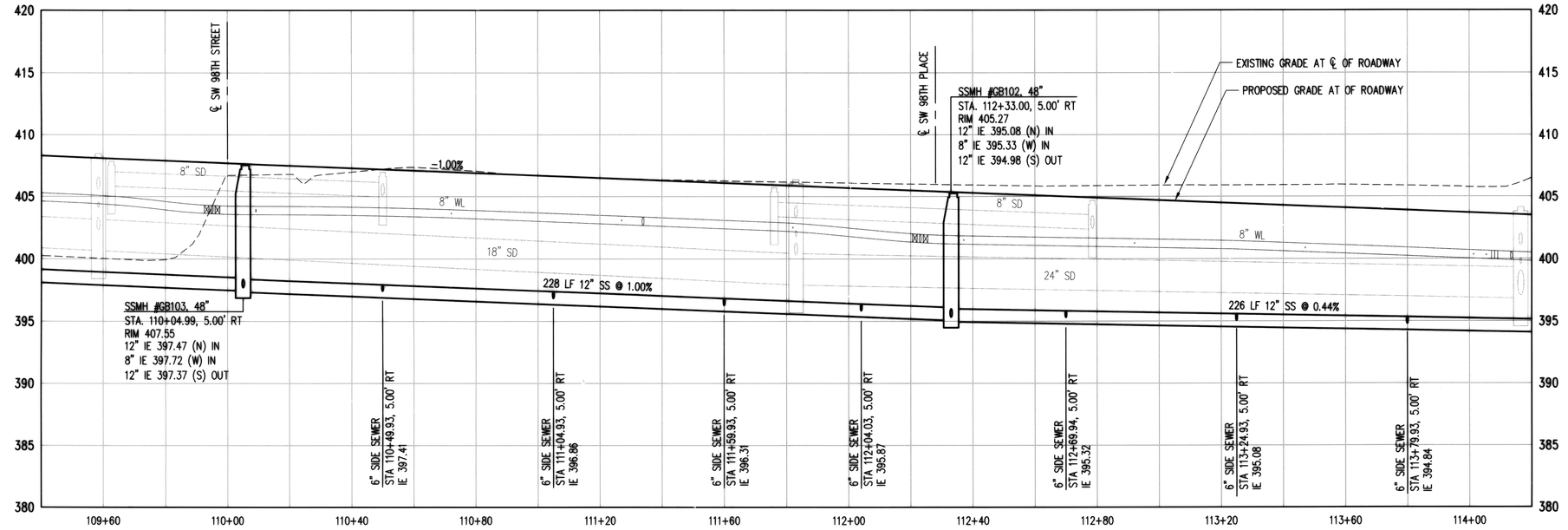
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1-15-2019
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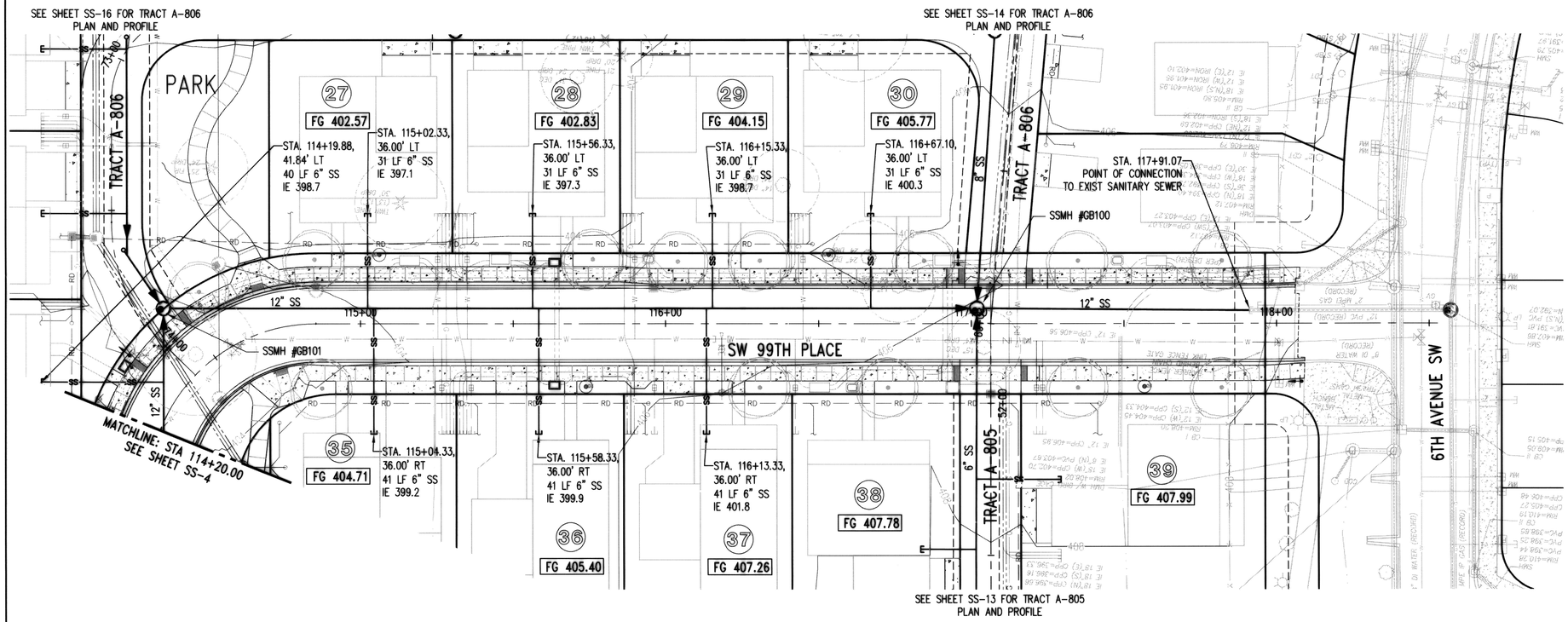
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5TH AVENUE SW PLAN AND PROFILE

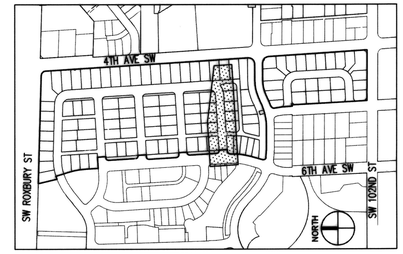
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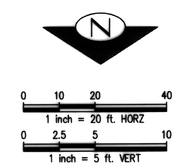
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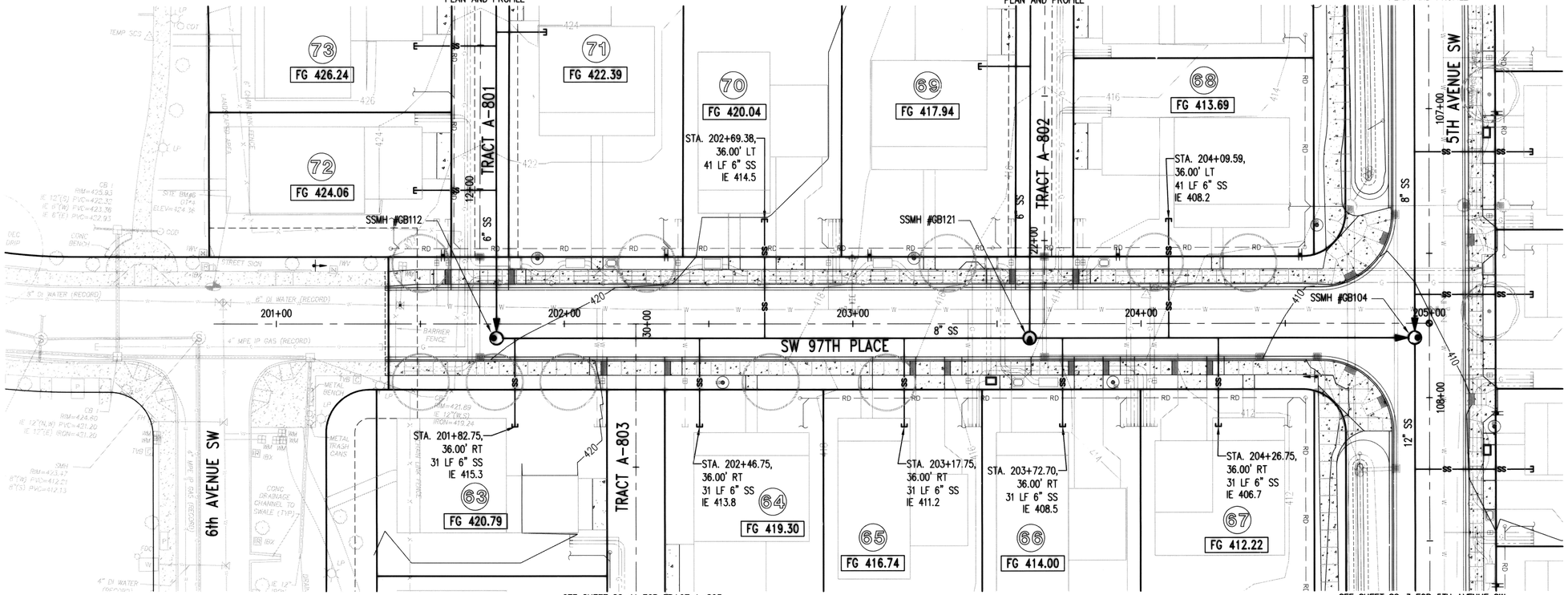
SW 99TH PLACE PLAN AND PROFILE

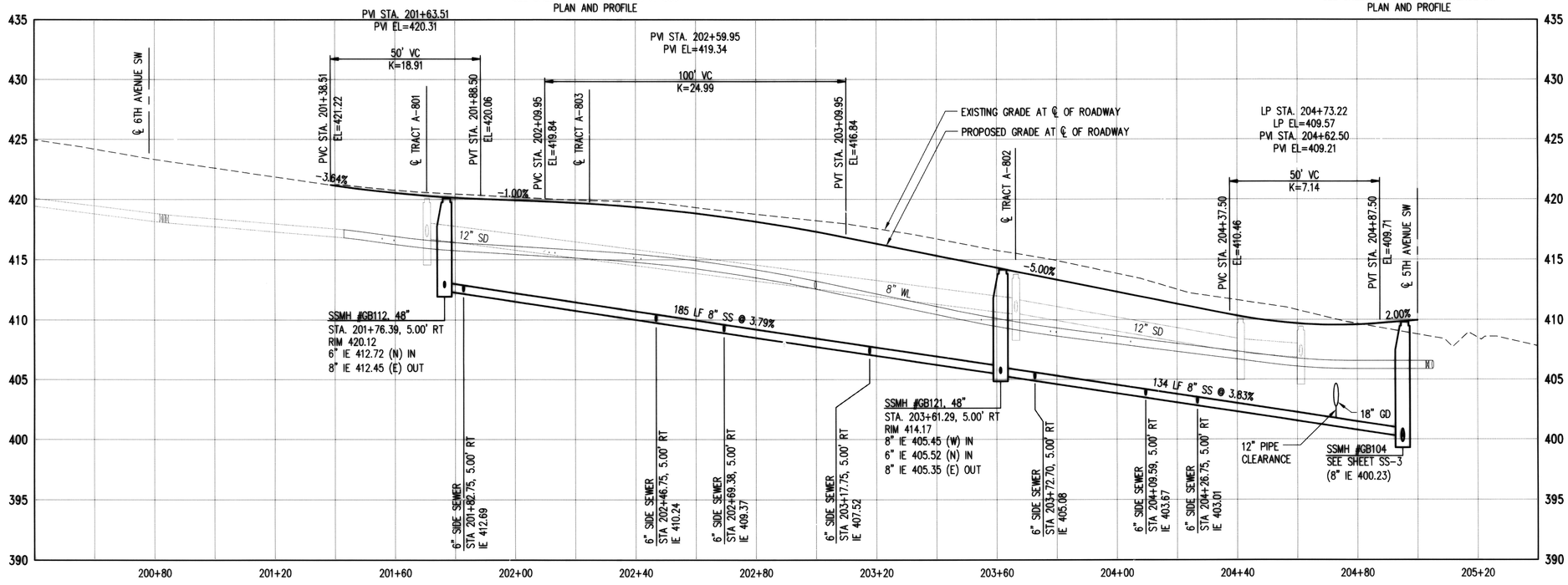
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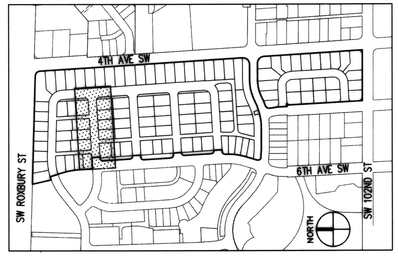
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SOUTHWEST SUBURBAN SEWER DISTRICT
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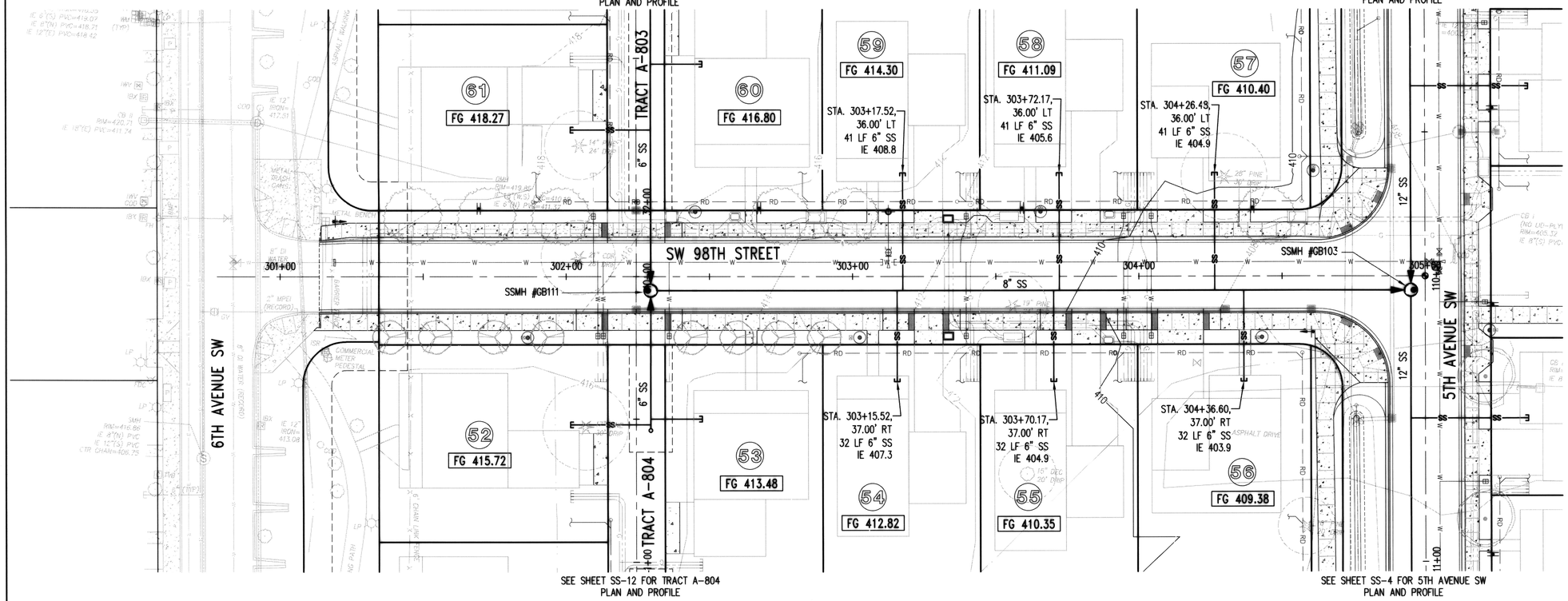
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SW 97TH PLACE PLAN AND PROFILE

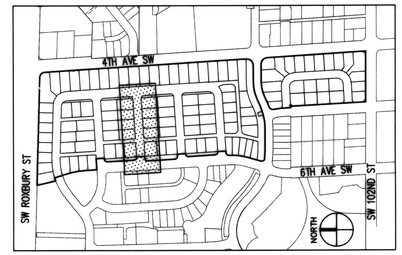
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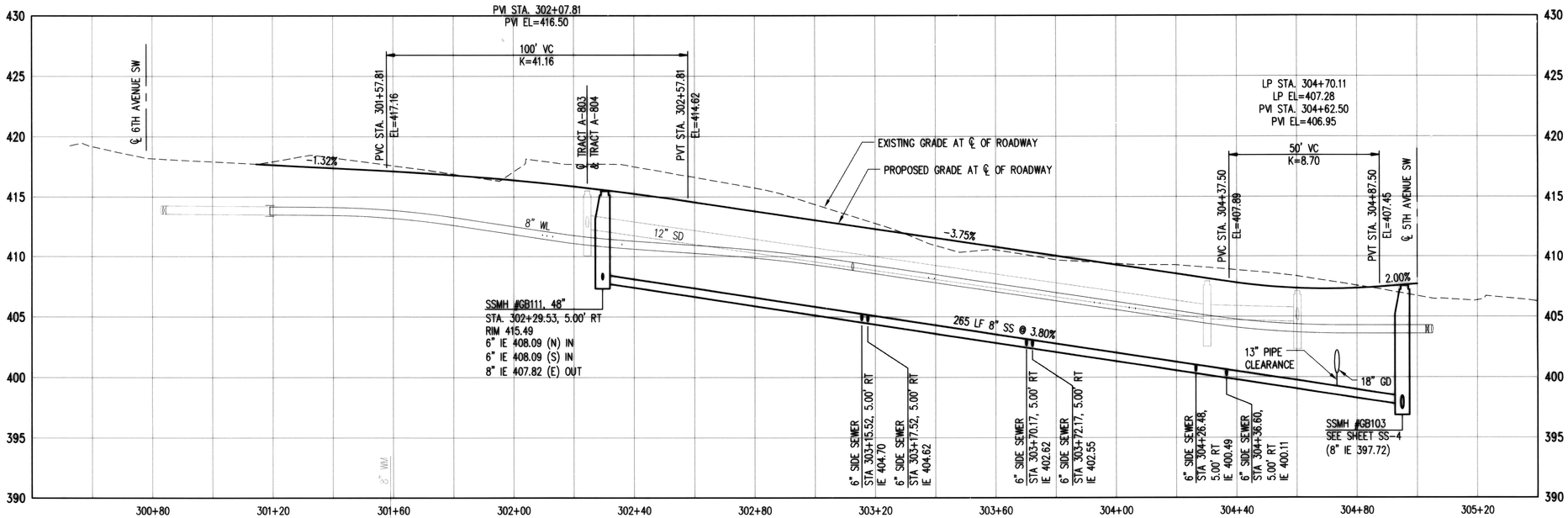
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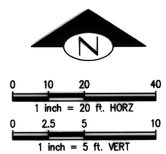
SOUTHWEST SUBURBAN SEWER DISTRICT
RECORD DRAWINGS
APPROVED Ritch Schulz
1-15-2019
DATE





KEY MAP
NTS





NO.	DATE	BY	CHD.	APPR.	REVISION
3	11/20/18	BJB	BJB	MAV	MYLAR SUBMITTAL
2	10/31/17	BJB	BJB	AGC	REVISED PER SWSSD COMMENTS
1	4/5/17	BJB	BJB	AGC	ORIGINAL SUBMITTAL

DRAWN BY BJB, TAD
DESIGNED BY BJB
CHECKED BY BJB
APPROVED BY AGC
DATE NOVEMBER 20, 2018
J O B No. : 1600206
SCALE: AS NOTED

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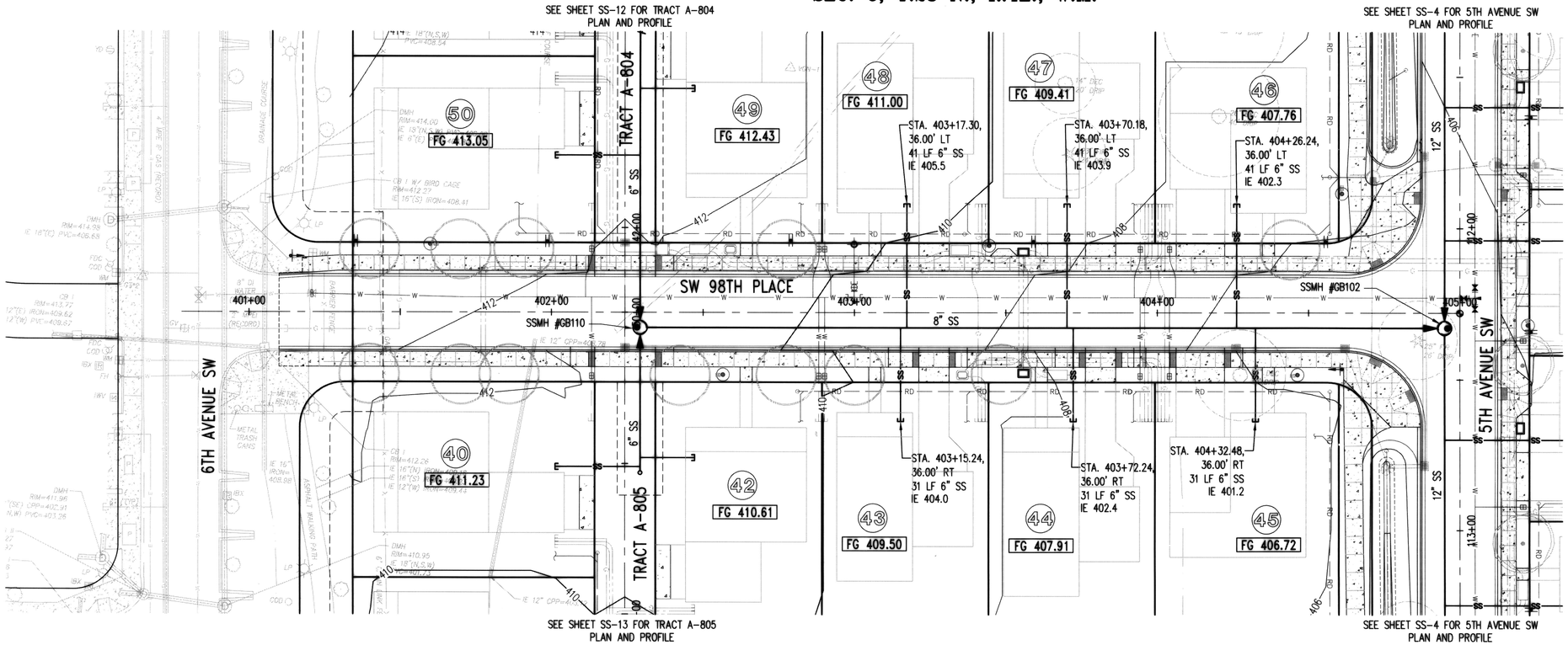
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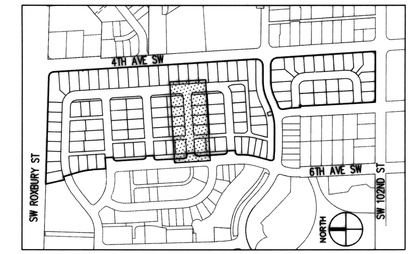
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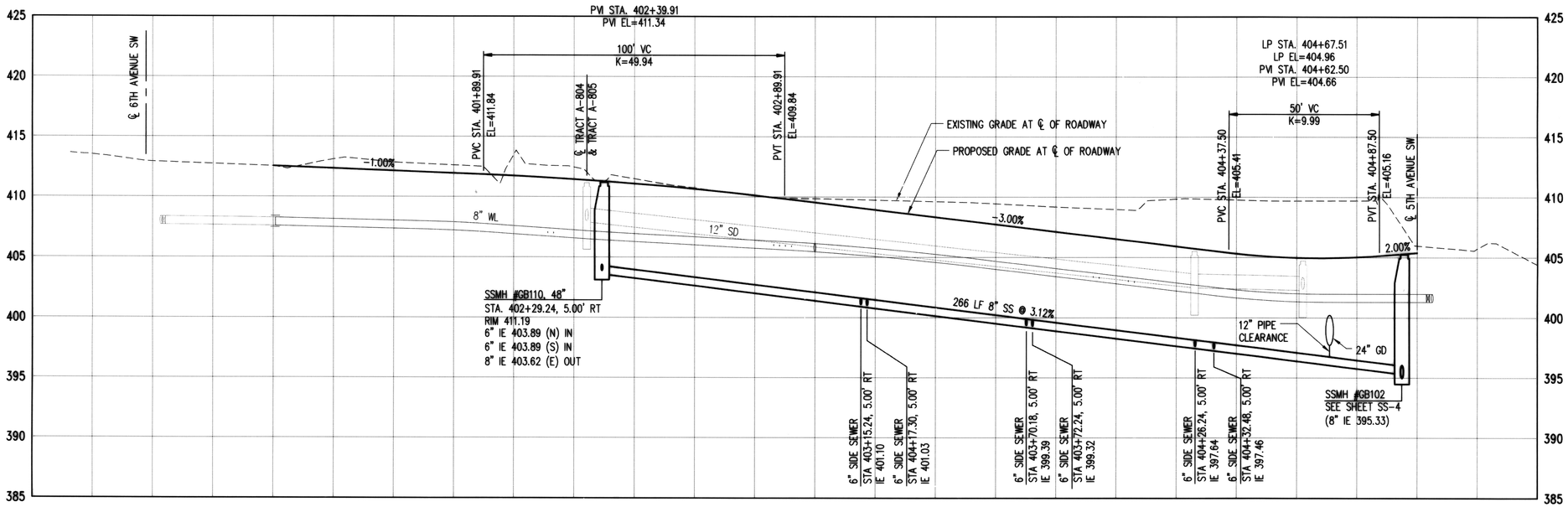
SEC. 6, T.23 N., R.4E., W.M.

SOUTHWEST SUBURBAN SEWER DISTRICT
RECORD DRAWINGS
APPROVED Mitch Schulte
1-15-2019
DATE





KEY MAP
NTS



1 inch = 20 ft. HORZ
1 inch = 5 ft. VERT

NO.	DATE	BY	CHD.	APPR.	REVISION
3	11/20/18	BJB	BJB	MAV	MYLAR SUBMITTAL
2	10/31/17	BJB	BJB	AGC	REVISED PER SWSSD COMMENTS
1	4/5/17	BJB	BJB	AGC	ORIGINAL SUBMITTAL

DRAWN BY: BJB, TAD
DESIGNED BY: BJB
CHECKED BY: BJB
APPROVED BY: AGC
DATE: NOVEMBER 20, 2018
J O B No. : 1600206
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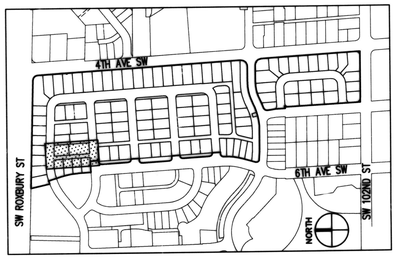
SW 98TH PLACE PLAN AND PROFILE

SHEET
SS-8

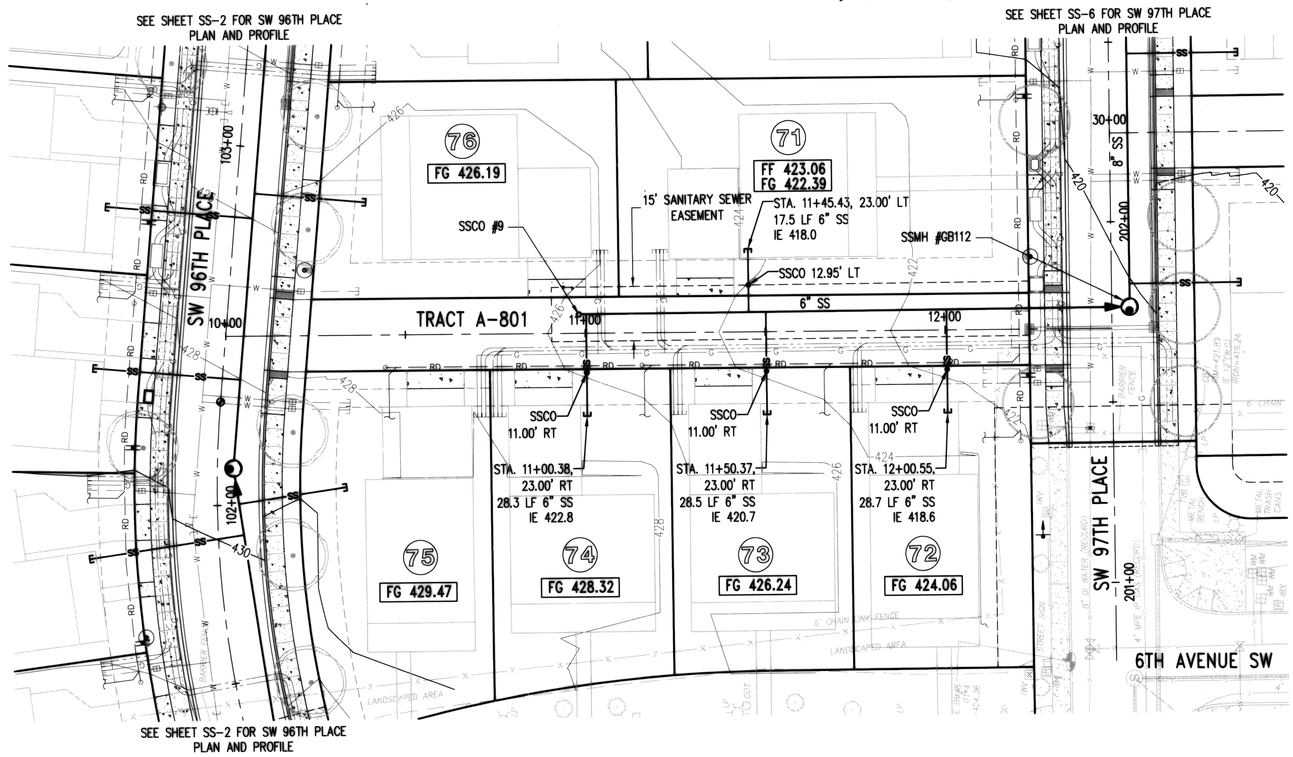
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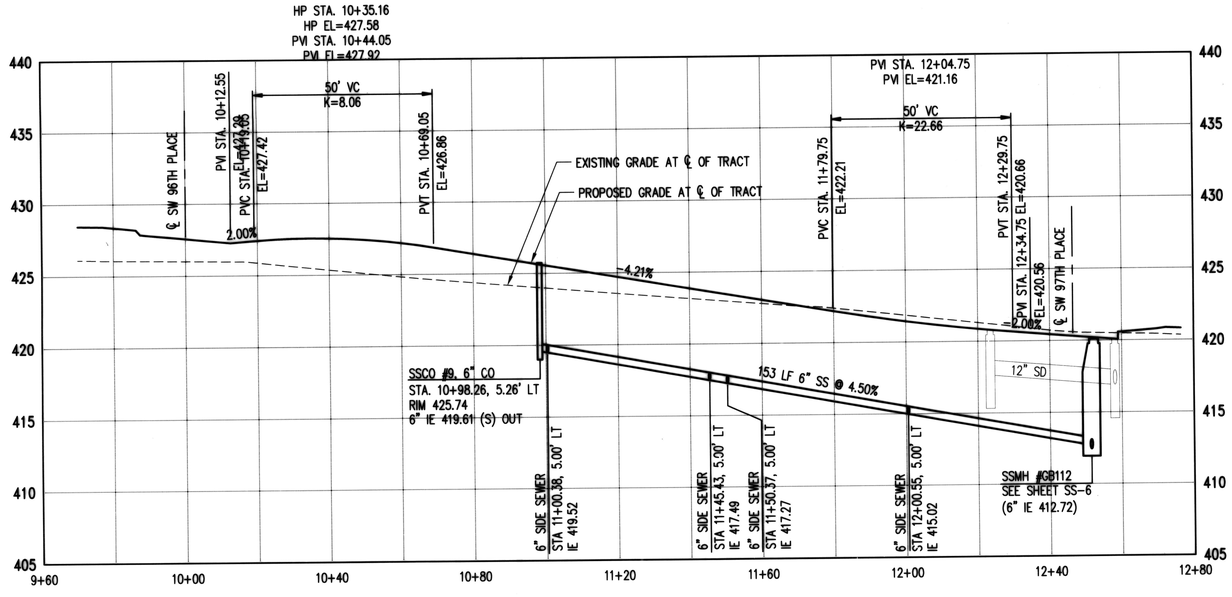
SEC. 6, T.23 N., R.4E., W.M.

SOUTHWEST SUBURBAN SEWER DISTRICT
RECORD DRAWINGS
APPROVED Rita Schuke
DATE 1-15-2019



KEY MAP
NTS





0 10 20 40
1 inch = 20 ft. HORZ
0 2.5 5 10
1 inch = 5 ft. VERT

NO.	DATE	BY	CHD.	APPR.	REVISION
3	11/20/18	BJB	BJB	MAV	MYLAR SUBMITTAL
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CHECKED BY BJB
APPROVED BY AGC
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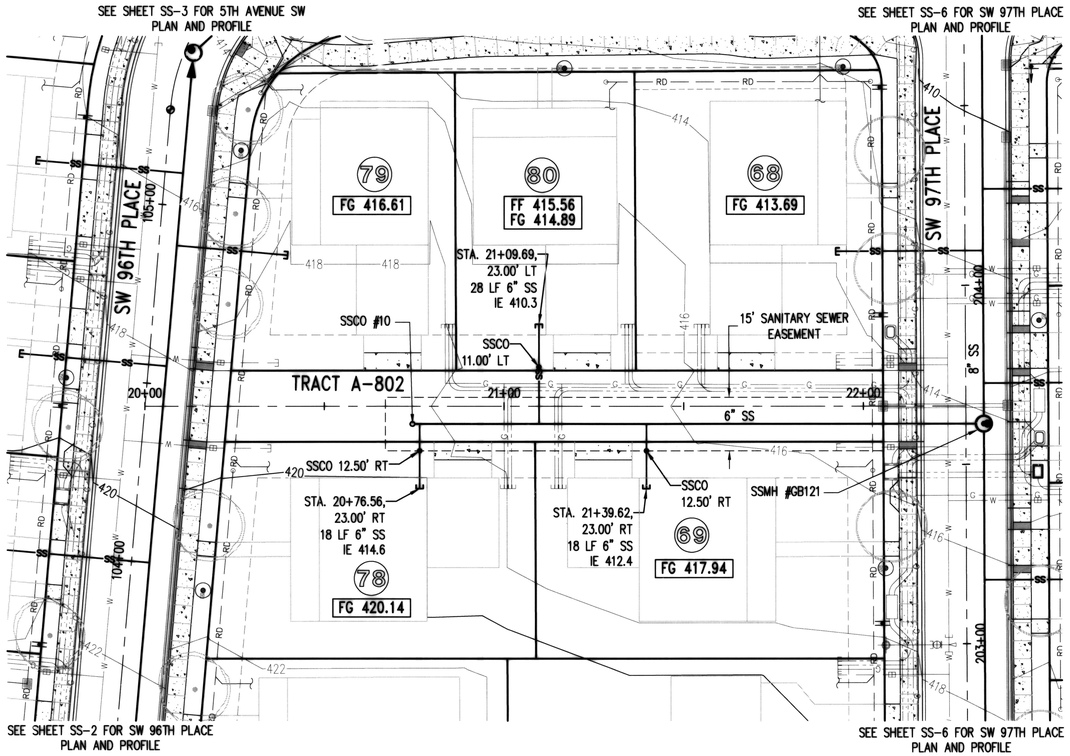
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GREENBRIDGE DIVISION 8
TRACT A-801 PLAN AND PROFILE

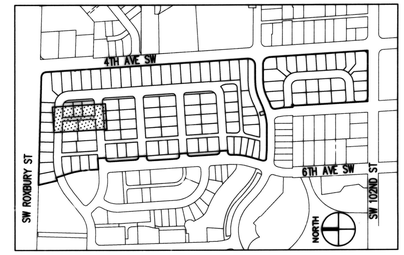
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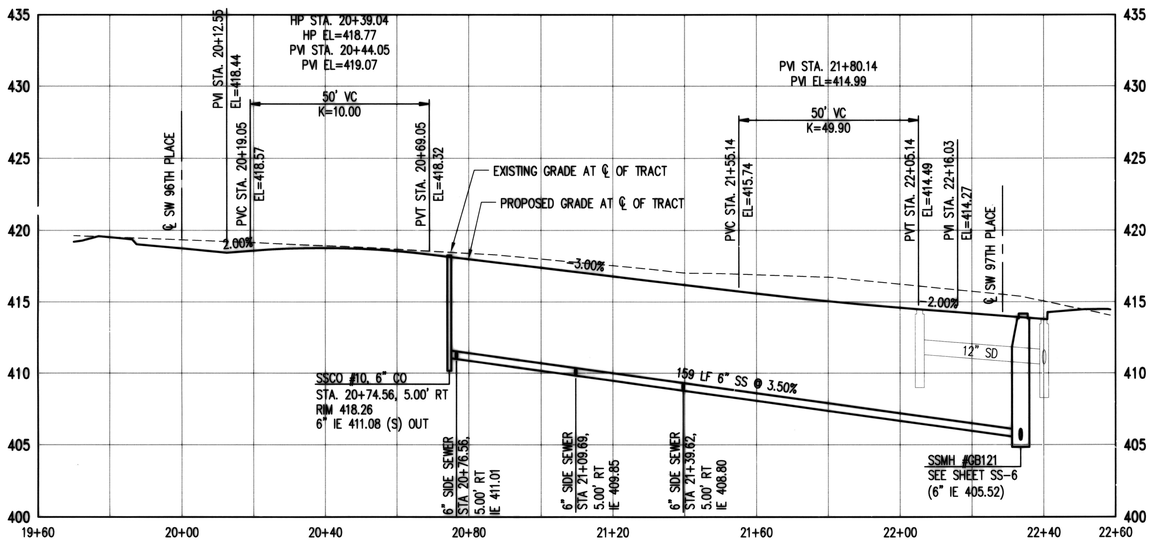
SEC. 6, T.23 N., R.4E., W.M.

SOUTHWEST SUBURBAN SEWER DISTRICT
RECORD DRAWINGS
APPROVED Ritch Schulz
DATE 1-15-2019





KEY MAP
NTS





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JOB No. : 1600206
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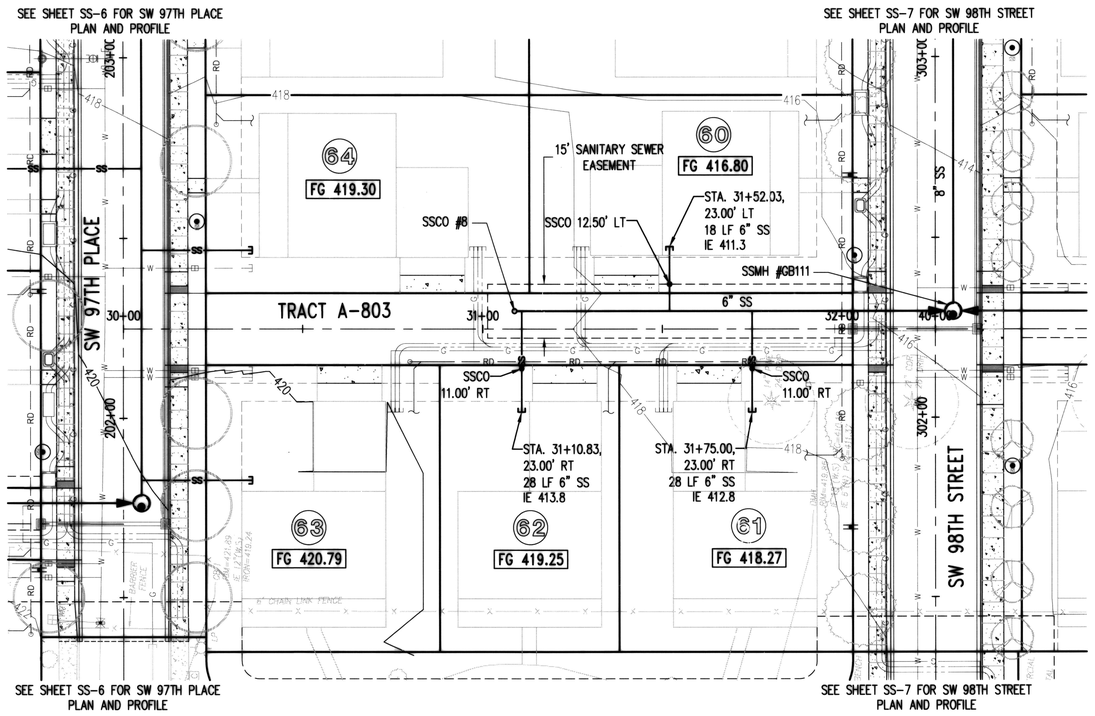
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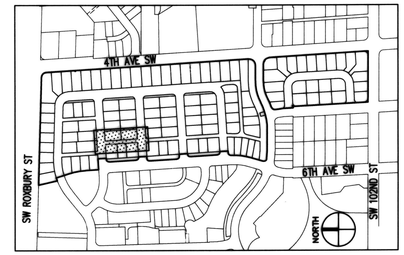
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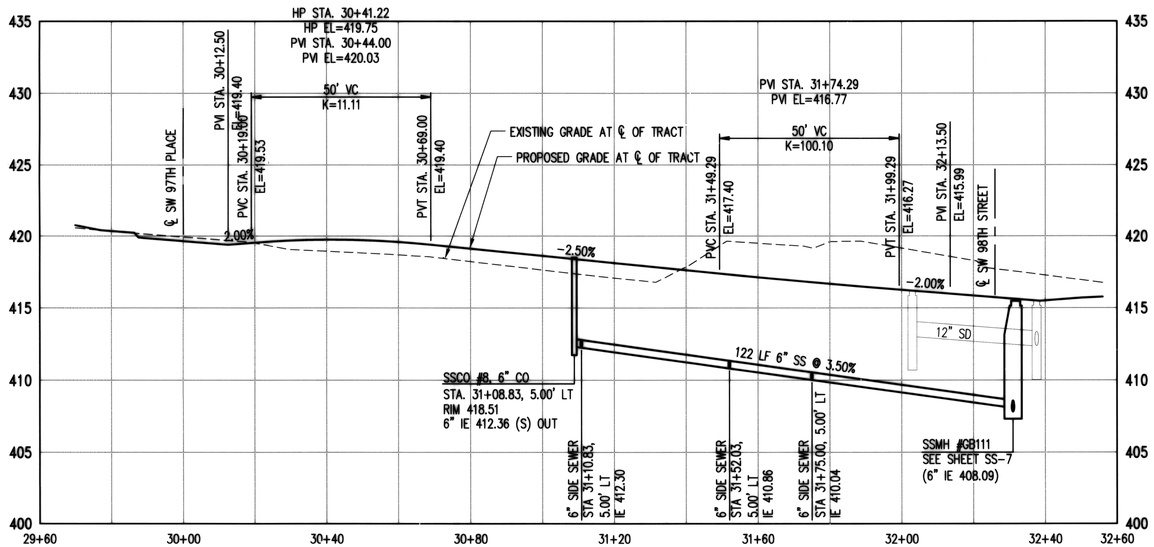
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SOUTHWEST SUBURBAN SEWER DISTRICT
RECORD DRAWINGS
APPROVED Ritch Schulz
1-15-2019
DATE





KEY MAP
NTS





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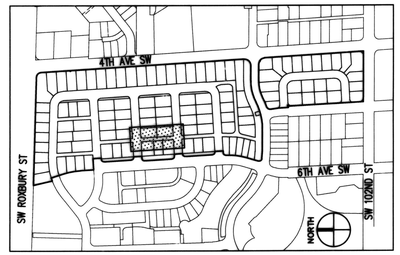
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GREENBRIDGE DIVISION 8
TRACT A-803 PLAN AND PROFILE

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SS-11

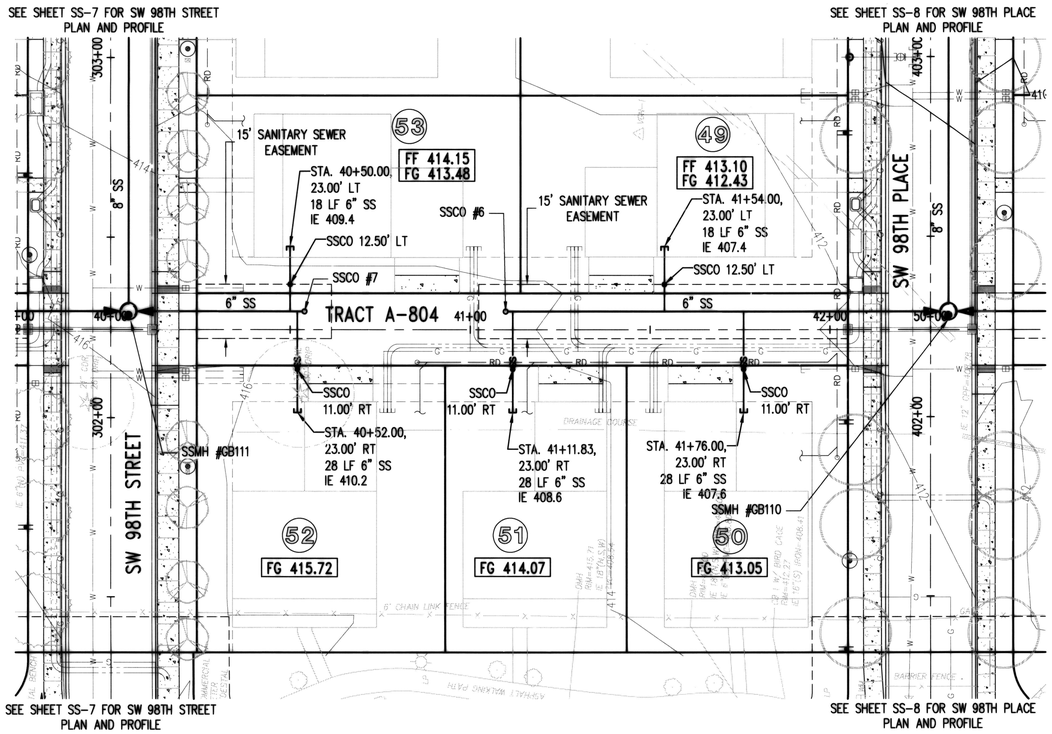
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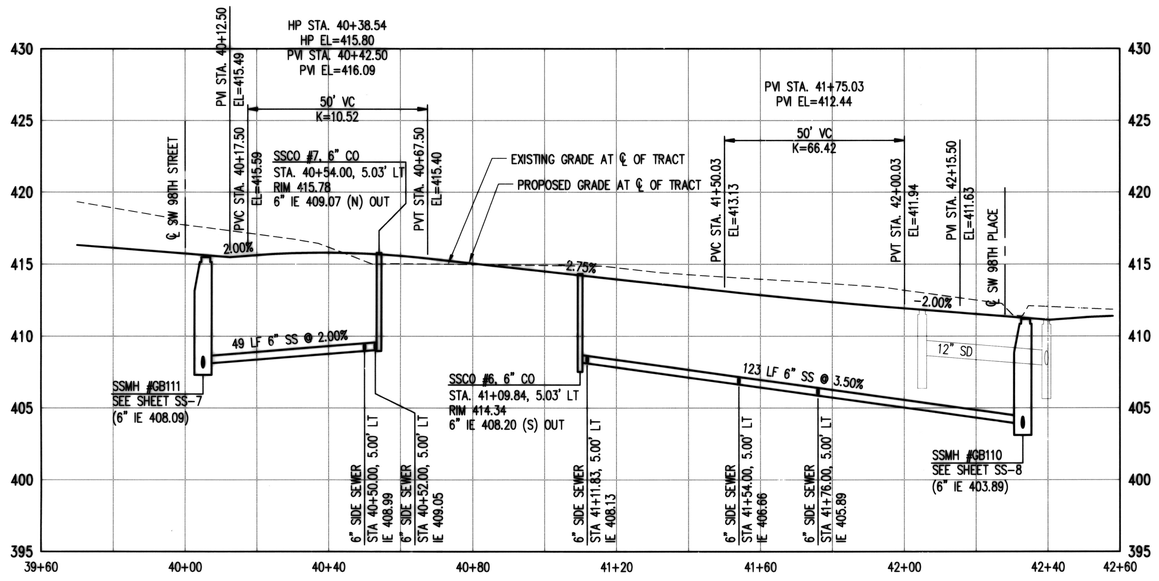
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SOUTHWEST SUBURBAN SEWER DISTRICT
RECORD DRAWINGS
APPROVED Ritch Schule
DATE 1-15-2019



KEY MAP
NTS







0 10 20 40
1 inch = 20 ft. HORZ
0 2.5 5 10
1 inch = 5 ft. VERT

NO.	DATE	BY	CHD.	APPR.	REVISION
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2	10/31/17	BJB	BJB	AGC	REVISED PER SWSSD COMMENTS
1	4/5/17	BJB	BJB	AGC	ORIGINAL SUBMITTAL

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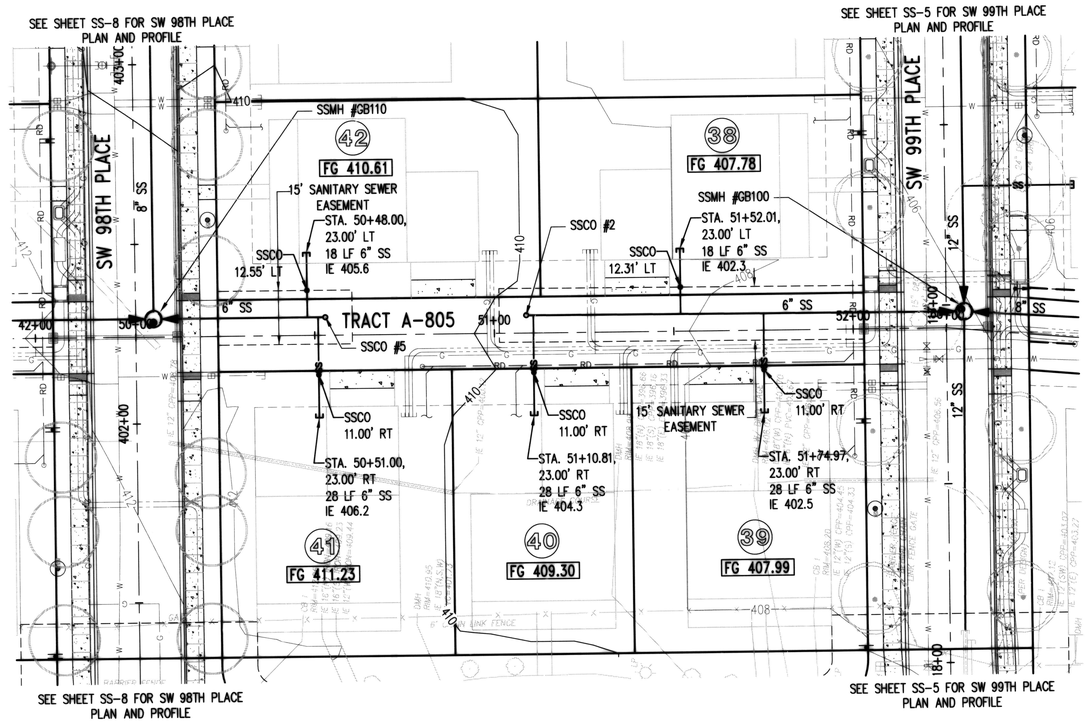
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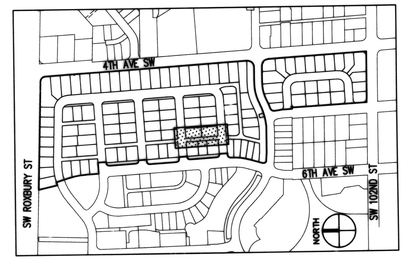
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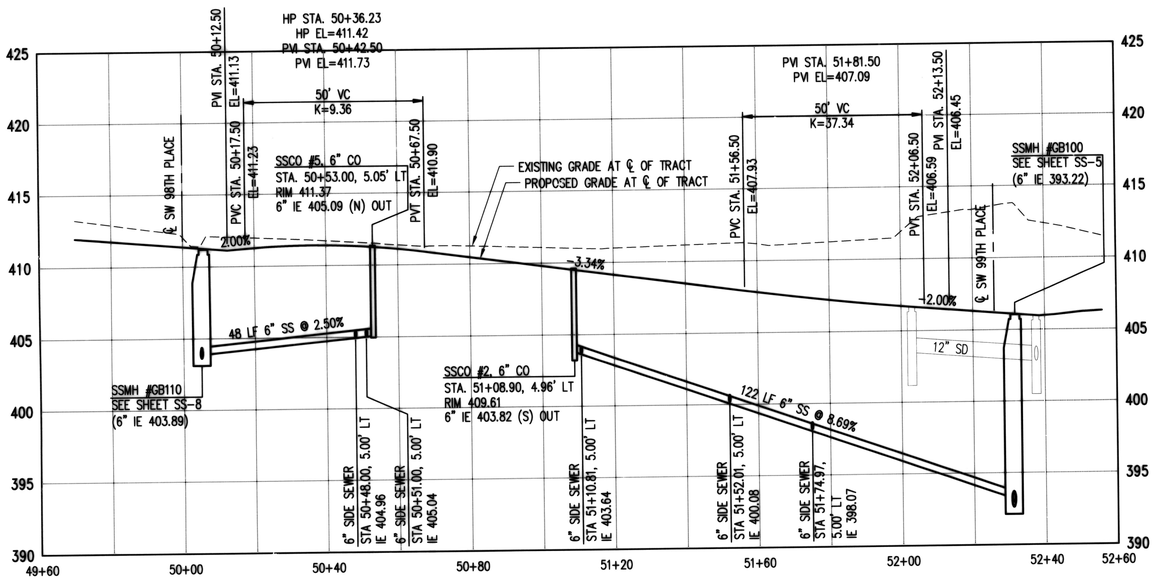
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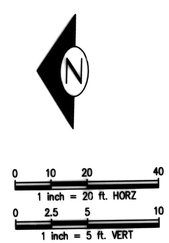
SOUTHWEST SUBURBAN SEWER DISTRICT
RECORD DRAWINGS
APPROVED Rod Schule
1-15-2019
DATE





KEY MAP
NTS





NO.	DATE	BY	CHD.	APPR.	REVISION
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2	10/31/17	BJB	BJB	AGC	REVISED PER SWSSD COMMENTS
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DRAWN BY: BJB, TAD
DESIGNED BY: BJB
CHECKED BY: BJB
APPROVED BY: AGC
DATE: NOVEMBER 20, 2018
JOB No.: 1600206
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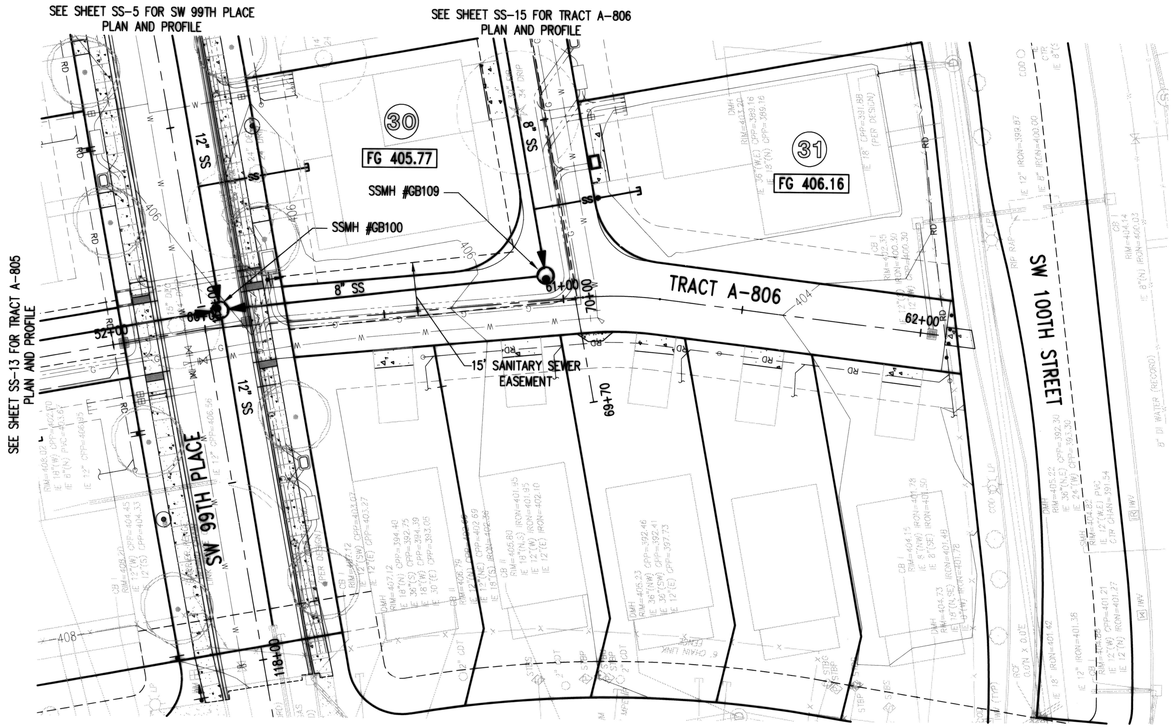
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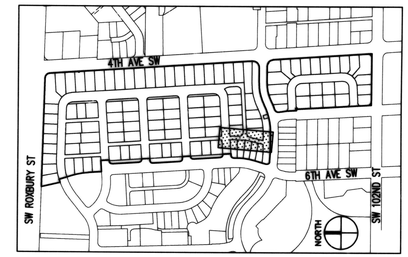
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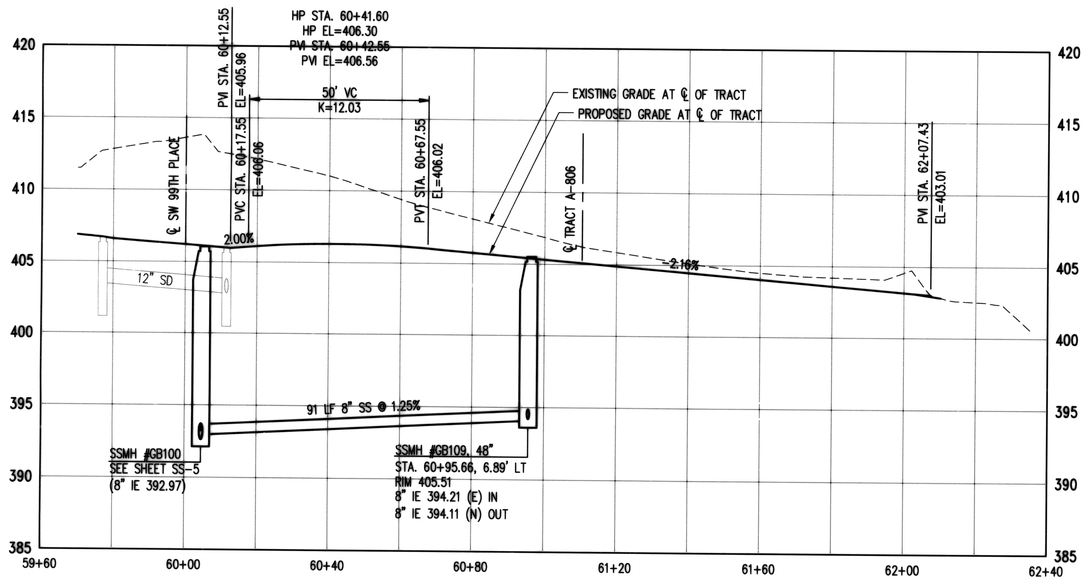
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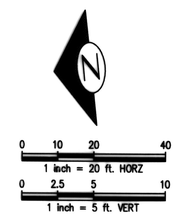
SOUTHWEST SUBURBAN SEWER DISTRICT
RECORD DRAWINGS
APPROVED Mark Schulte
1-15-2019
DATE





KEY MAP
NTS





NO.	DATE	BY	CHD.	APPR.	REVISION
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DRAWN BY: BJB, TAD
DESIGNED BY: BJB
CHECKED BY: BJB
APPROVED BY: AGC
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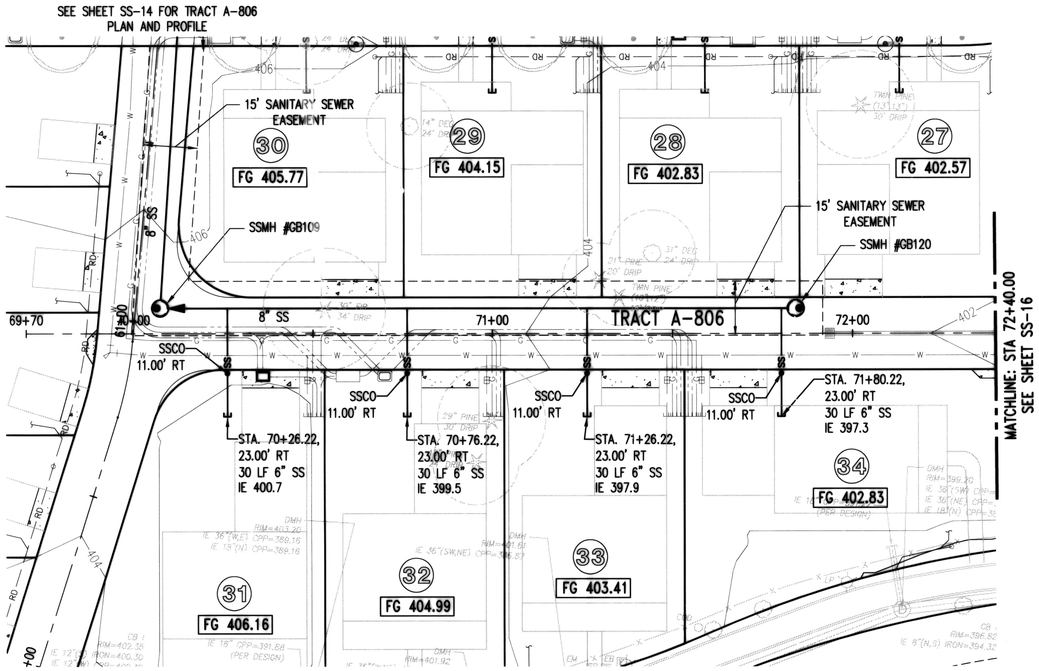
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GREENBRIDGE DIVISION 8
TRACT A-806 PLAN AND PROFILE

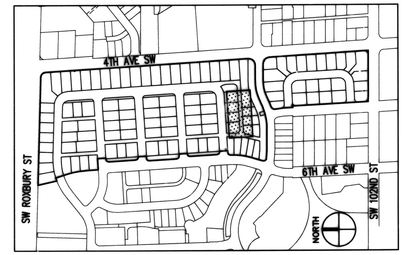
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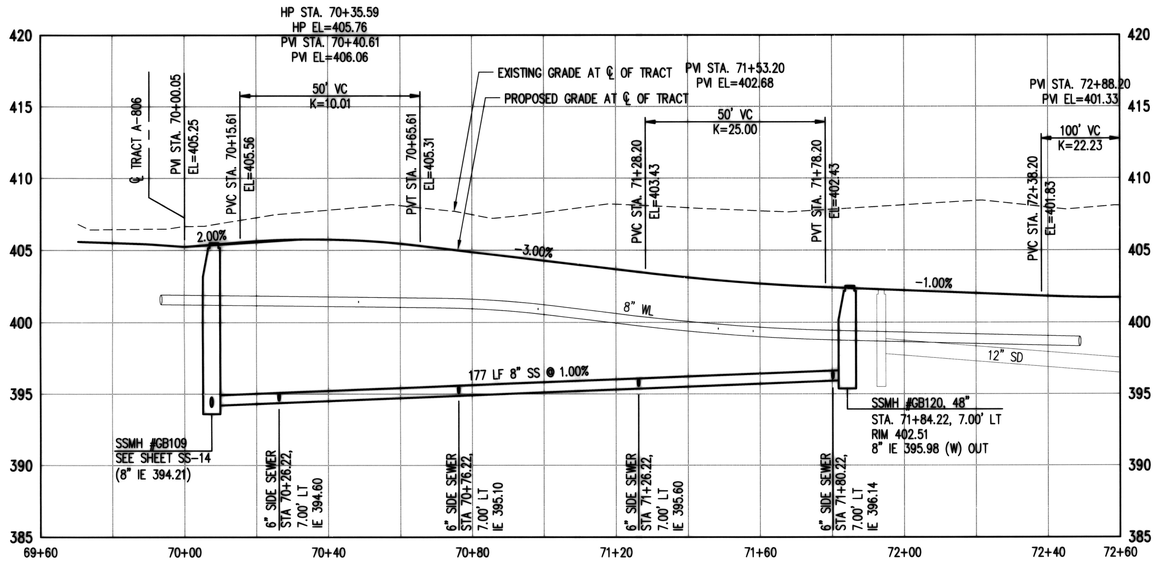
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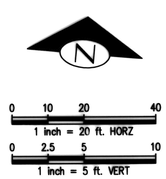
SOUTHWEST SUBURBAN SEWER DISTRICT
RECORD DRAWINGS
APPROVED Ritch Schulz
DATE 1-15-2019





KEY MAP
NTS





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DRAWN BY BJB, TAD
DESIGNED BY BJB
CHECKED BY BJB
APPROVED BY AGC
DATE NOVEMBER 20, 2018
J O B No. : 1600206
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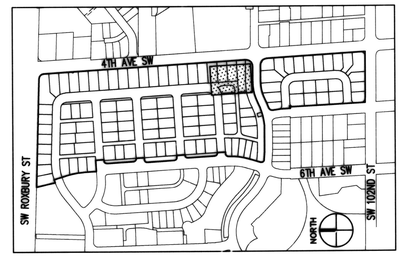
KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
TRACT A-806 PLAN AND PROFILE

SHEET
SS-15

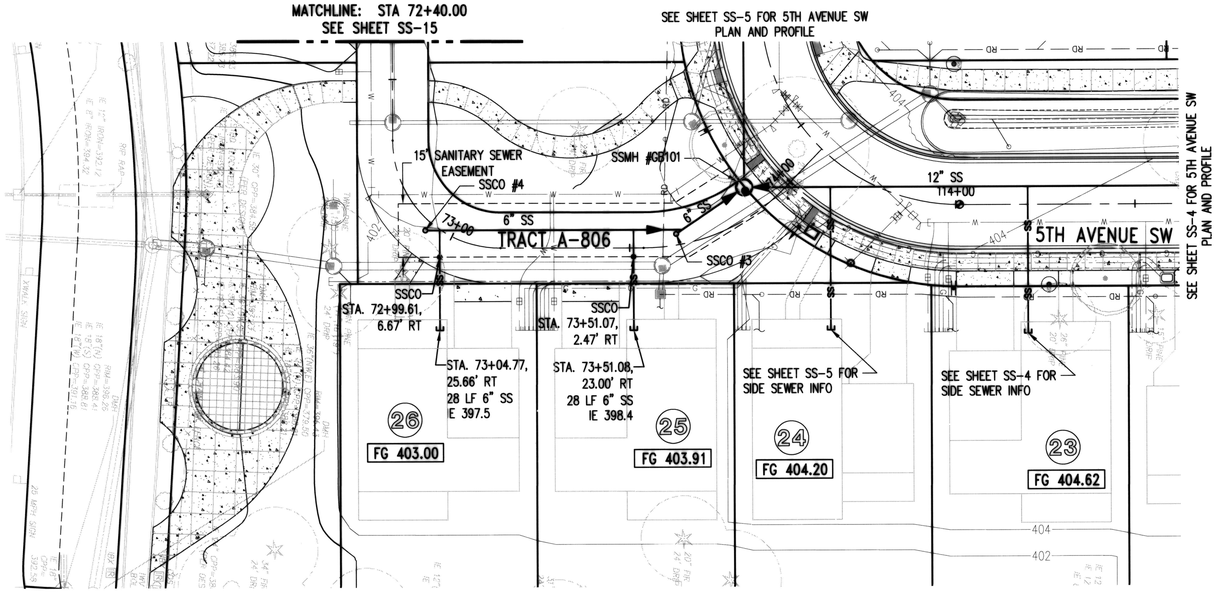
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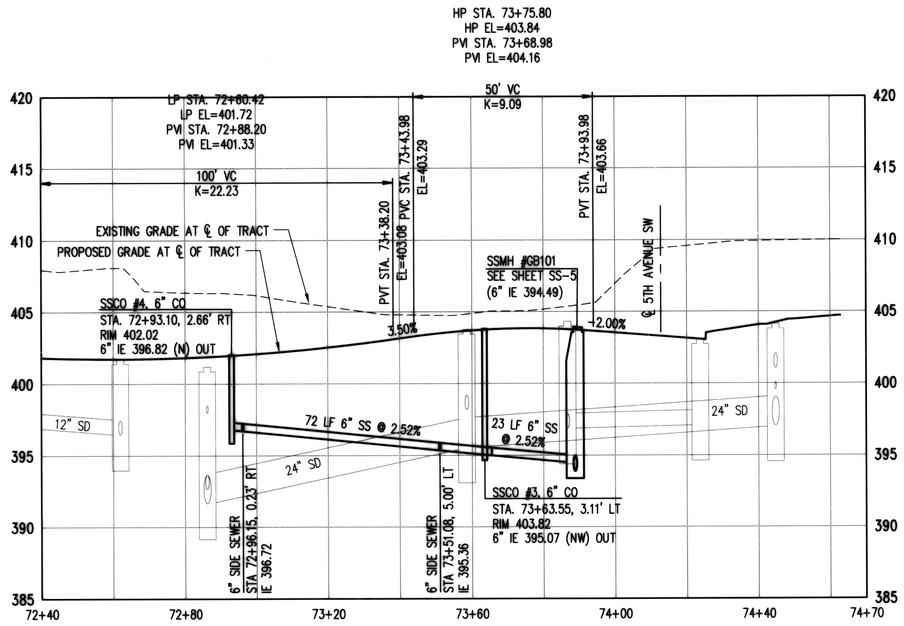
SEC. 6, T.23 N., R.4E., W.M.

SOUTHWEST SUBURBAN SEWER DISTRICT
RECORD DRAWINGS
APPROVED — Ritch Schulz
DATE 1-15-2019



KEY MAP
NTS





N

0 10 20 40
1 inch = 20 ft. HORZ
0 2.5 5 10
1 inch = 5 ft. VERT

NO.	DATE	BY	CHD.	APPR.	REVISION
3	11/20/18	BJB	BJB	MAV	MYLAR SUBMITTAL
2	10/31/17	BJB	BJB	AGC	REVISED PER SWSSD COMMENTS
1	4/5/17	BJB	BJB	AGC	ORIGINAL SUBMITTAL

DRAWN BY BJB, TAD — DESIGNED BY BJB
CHECKED BY BJB — APPROVED BY AGC
DATE NOVEMBER 20, 2018
J O B No. : 1600206
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11/16/19

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
TRACT A-806 PLAN AND PROFILE

SHEET SS-16

Jan 10, 2019 - 11:14am brianb
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SOUTHWEST SUBURBAN SEWER DISTRICT
RECORD DRAWINGS

APPROVED Ritch Schule

1-15-2019

DATE

SEC. 6, T.23 N., R.4E., W.M.

SSCO RIM 402.2 6"IE 397.3

FF 403.46 FG 402.79

STA. 601+88.39, 71.93' LT 19.2 LF 6" SS IE 397.8

6"IE 396.9

FG 404.95

STA. 602+16.79, 36.00' LT 40 LF 6" SS IE 399.5

STA. 602+55.60, 36.00' LT 41 LF 6" SS IE 400.0

FG 405.54

STA. 603+10.60, 36.00' LT 41 LF 6" SS IE 402.1

FG 407.57

FF 401.62 FG 400.95

STA. 601+72.88, 73.40' LT 31.5 LF 6" SS @ 2.0% IE 397.5

31.8 LF 8" @ 2.0% SS

STA. 601+82.77, 36.00' LT 42.8 LF 6" SS @ 2.0% IE 396.6

5TH PLACE SW

603+00

8" SS

602+00

SSMH #GB114

SSMH #GB115

MATCHLINE: STA 603+60.00 SEE SHEET SS-18

FG 404.30

STA. 601+43.21, 36.00' LT 40.7 LF 6" SS IE 398.8

STA. 602+46.14, 36.00' RT 31 LF 6" SS IE 402.3

STA. 603+00.13, 36.02' RT 31 LF 6" SS IE 402.3

FG 407.80

FG 407.80

FG 404.90

STA. 600+91.16, 36.00' LT 41 LF 6" SS IE 399.4

SW 101ST PLACE

601+00

8" SS

FG 408.80

FG 409.00

SSMH #GB113

CHAIN LINK FENCE

GATE

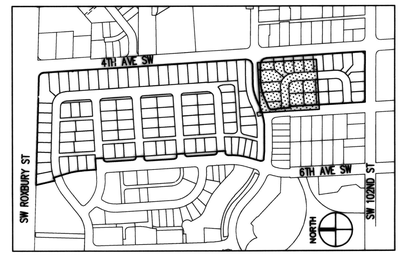
8" SS

707+00

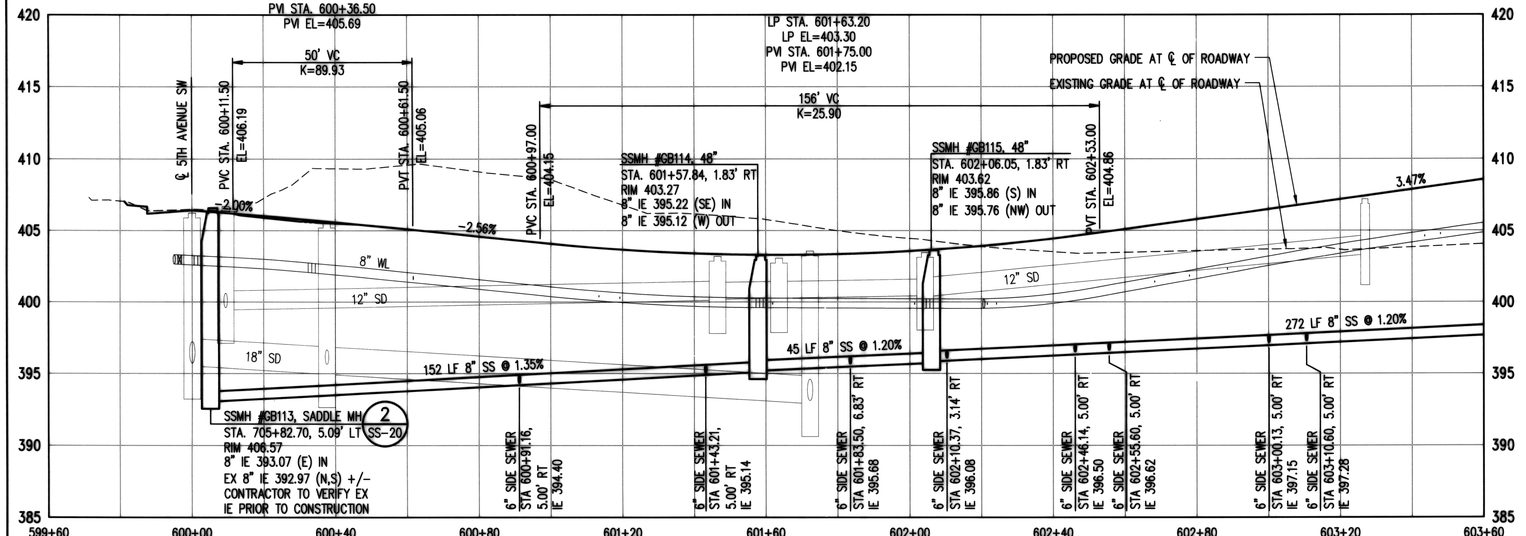
704+00

5TH AVENUE SW

SEE SHEET SS-19 FOR 5TH AVENUE SW PLAN AND PROFILE



KEY MAP
NTS



N

1 inch = 20 ft. HORZ

1 inch = 5 ft. VERT

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J O B No. : 1600206

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KING COUNTY HOUSING AUTHORITY
WHITE CENTER, A WASHINGTON

GREENBRIDGE DIVISION 8

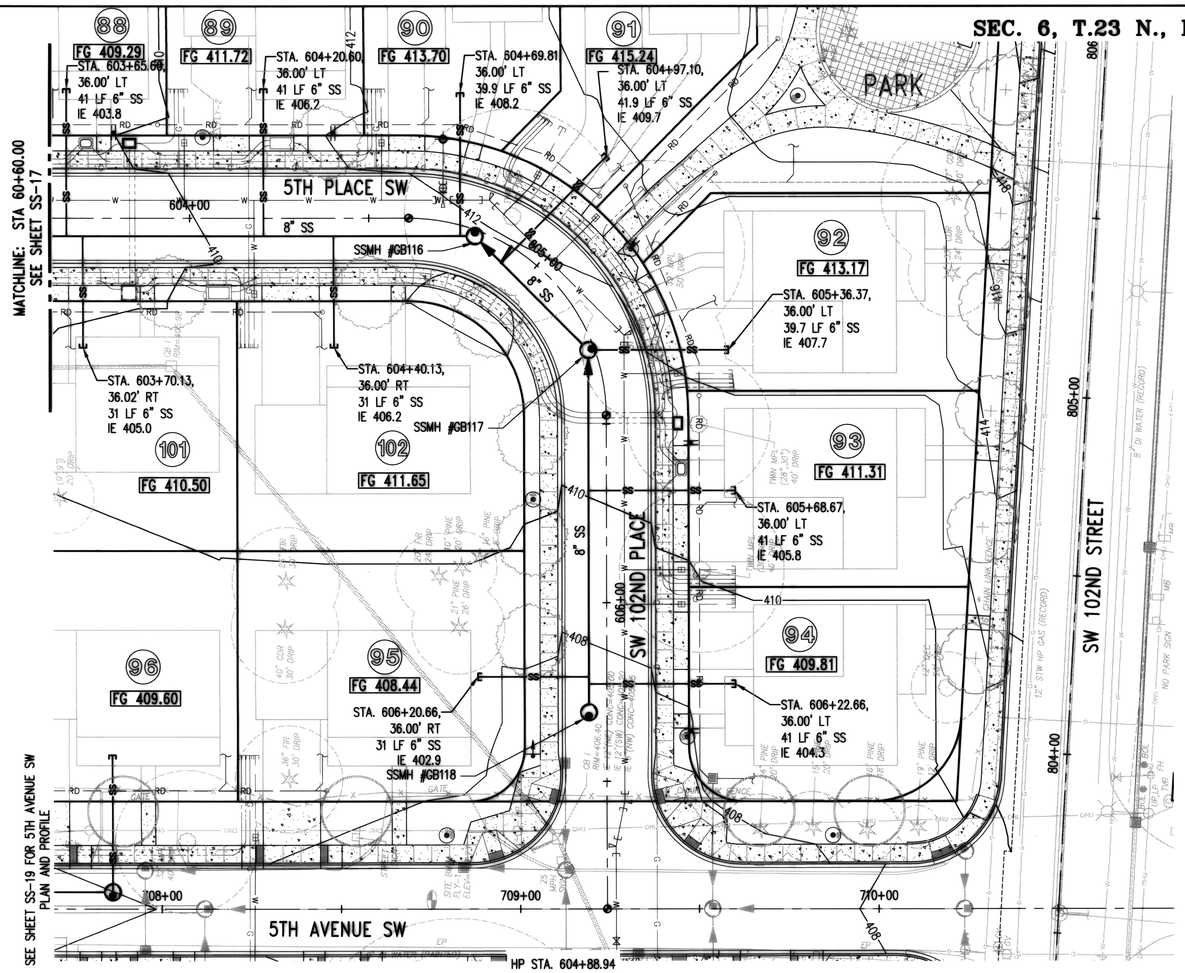
SW 101ST PLACE AND 5TH PLACE SW PLAN AND PROFILE

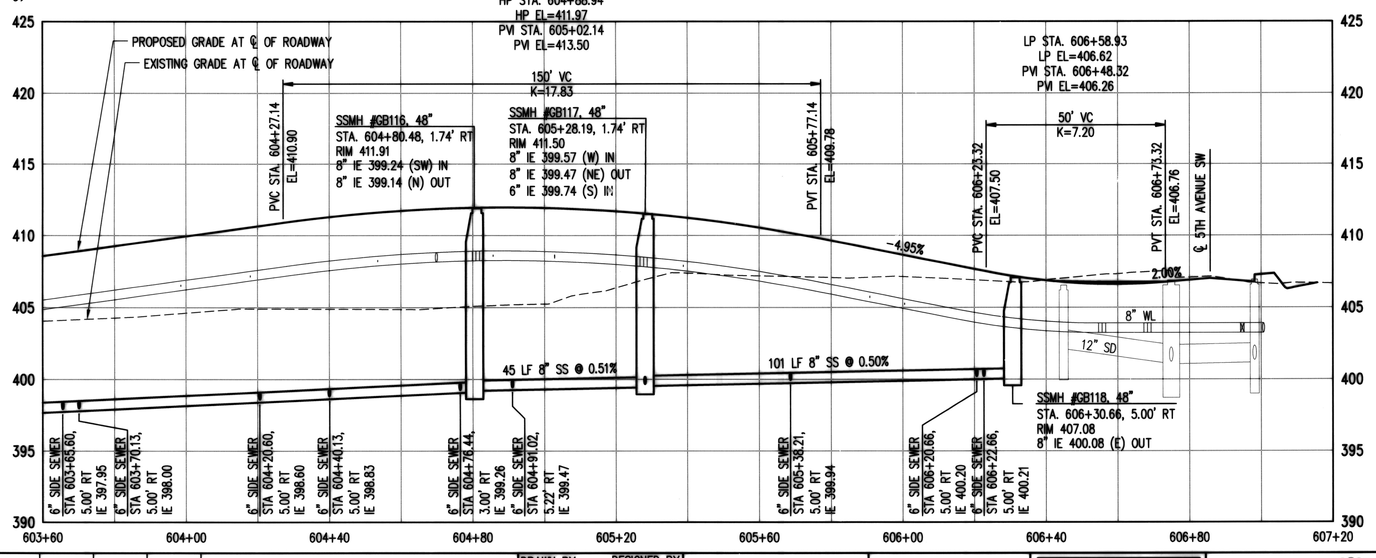
SHEET S-17

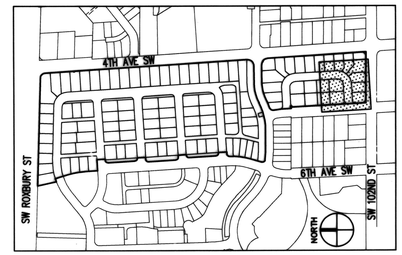
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SEC. 6, T.23 N., R.4E., W.M.

SOUTHWEST SUBURBAN SEWER DISTRICT
RECORD DRAWINGS
APPROVED Patch Schulz
1-15-2019
DATE







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11/20/18

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

GREENBRIDGE DIVISION 8

5TH PLACE SW AND SW 102ND PLACE PLAN AND PROFILE

SHEET
SS-18

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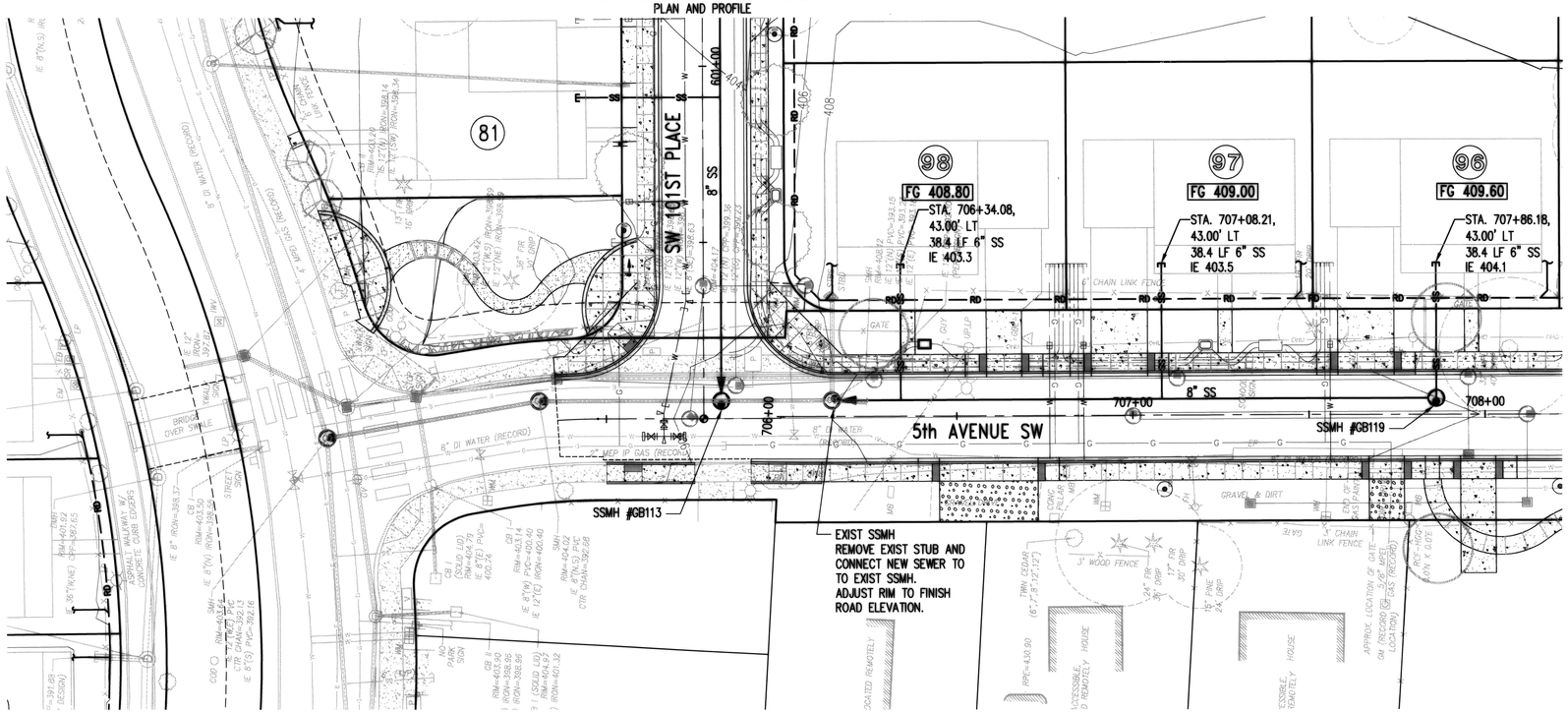
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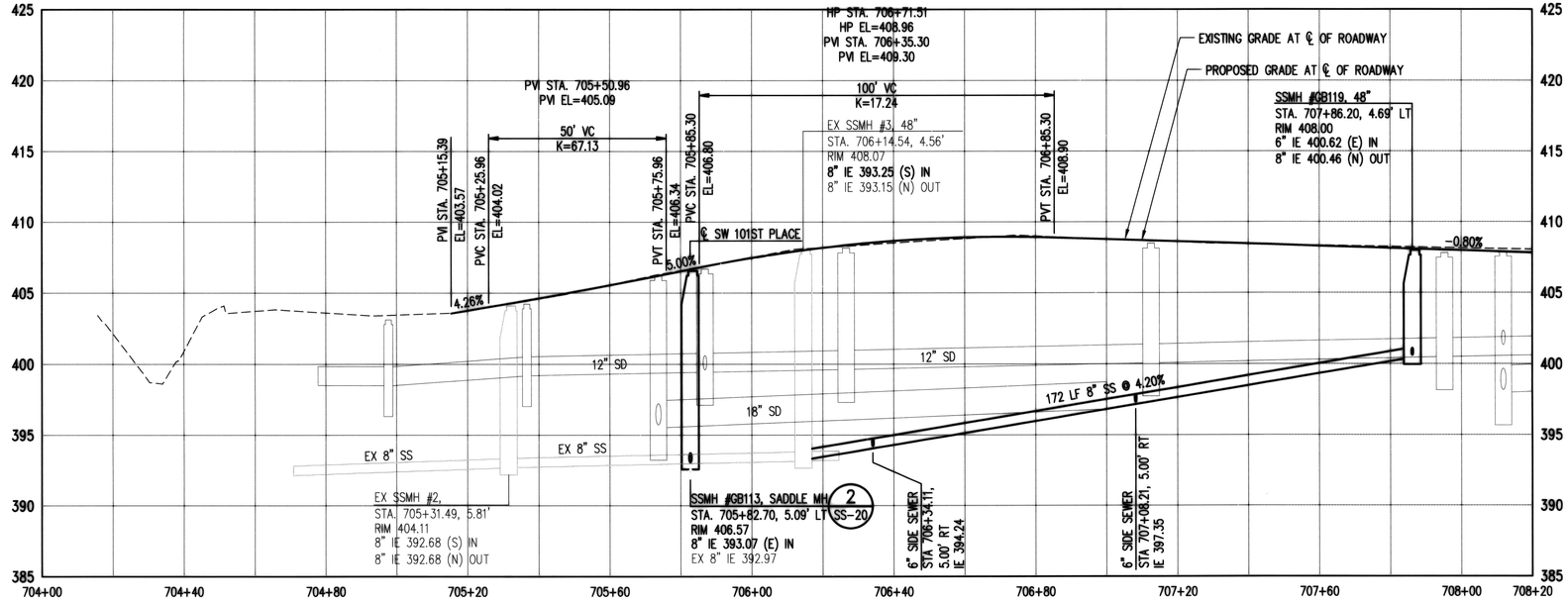
SOUTHWEST SUBURBAN SEWER DISTRICT
RECORD DRAWINGS

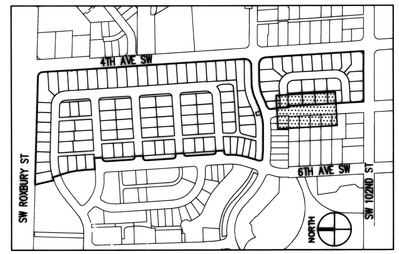
APPROVED

DATE

SEE SHEET SS-17 FOR SW 101ST PLACE PLAN AND PROFILE







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0 10 20 40
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1 inch = 5 ft. VERT

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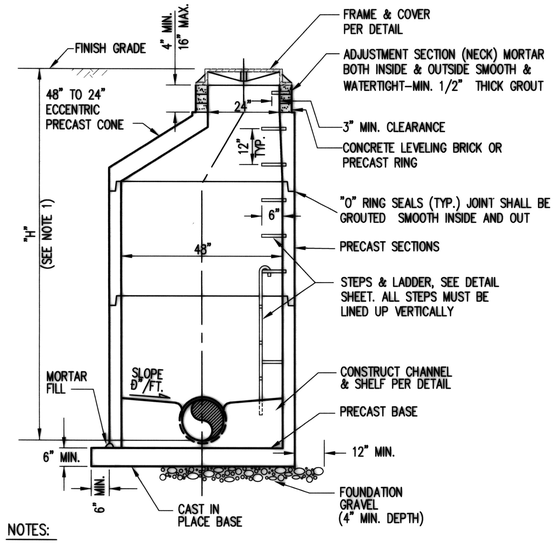
GREENBRIDGE DIVISION 8

5TH AVENUE SW PLAN AND PROFILE

SHEET
SS-19

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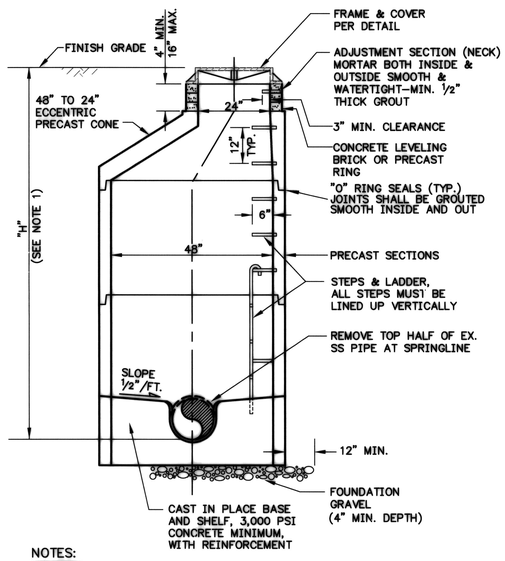
SOUTHWEST SUBURBAN SEWER DISTRICT
RECORD DRAWINGS
APPROVED Ritch Schulz
1-15-2019
DATE



NOTES:

1. WHEN "H" IS LESS THAN 5', USE TYPE IIIA–48" MANHOLE
2. WALL OPENING REQUIREMENTS FOR PIPE:
   A. HOLE SIZE TO EQUAL PIPE O.D. PLUS MANHOLE WALL THICKNESS
   B. 8" MINIMUM BETWEEN HOLES
   C. MAXIMUM PIPE SIZE 12"
   D. PIPE MANHOLE COLLAR REQUIRED FOP PVC PIPE
3. EXTERNAL MANHOLE JOINTS SHALL BE COMPLETELY ENCAPSULATED WITH A 1 FOOT WIDE STRIP OF "BEST SEAL WRAP" OR EQUAL AS APPROVED BY DISTRICT.

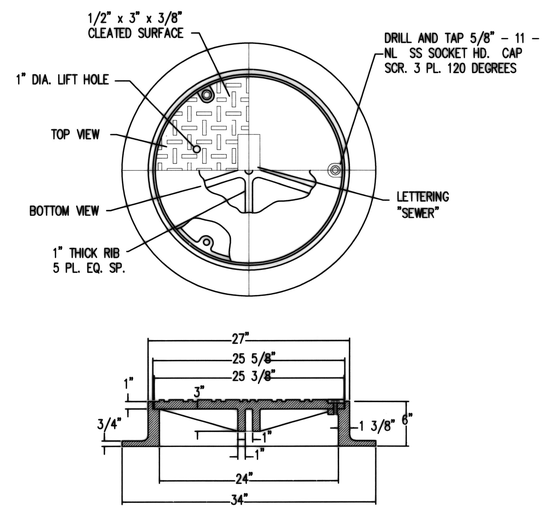
TYPE 1 – 48" MANHOLE (1)
STANDARD MANHOLE DETAIL
SOUTHWEST SUBURBAN SEWER DISTRICT



NOTES:

1. WHEN "H" IS LESS THAN 5', USE TYPE IIIA–48" MANHOLE
2. ADDITIONAL WALL OPENING REQUIREMENTS:
   A. HOLE SIZE TO EQUAL PIPE O.D. PLUS MANHOLE WALL THICKNESS
   B. 8" MINIMUM BETWEHOLES
   C. MAXIMUM PIPE SIZE 12"
   D. PIPE MANHOLE COLLAR REQUIRED FOR PVC PIPE
3. SHELF TO HAVE SMOOTH PLASTER FINISH MEETING FLUSH WITH EX. SS PIPE.
4. EXTERNAL MANHOLE JOINTS SHALL BE COMPLETELY ENCAPSULATED WITH A 1 FOOT WIDE STRIP OF "BEST SEAL WRAP" OR EQUAL AS APPROVED BY DISTRICT.

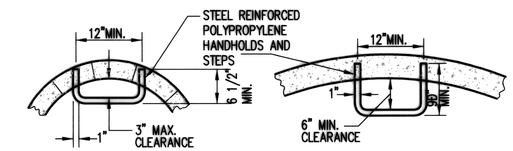
TYPE 1 SADDLE MANHOLE (2)
SOUTHWEST SUBURBAN SEWER DISTRICT



NOTES:

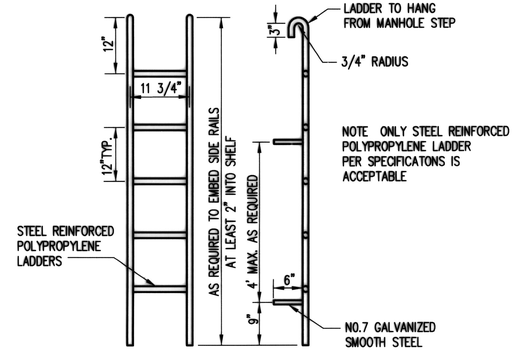
1. ALL FRAMES AND COVERS SHALL BE OLYMPIC FOUNDRY INC. MH 36 D/T OR EQUAL.
2. DRILL LUG HOLES FULL DEPTH.
3. FRAMES WITH OVER BORED HOLES AND WASHERS ON CAP SCREWS TO HOLD DOWN LID NOT ACCEPTABLE.
4. PROVIDE 3/4" ø X 6" CARRIAGE BOLT AND NUT AND WASHERS FOR LIFT HOLE. 5. SEE SPECIFICATION 02605 FOR ADDITIONAL REQUIREMENTS.

MANHOLE FRAME AND COVER (5)
SOUTHWEST SUBURBAN SEWER DISTRICT



ADJUSTMENT RING HAND HOLD

TYPICAL MANHOLE STEP



PREFABRICATED LADDER

MANHOLE STEPS AND LADDER (6)
SOUTHWEST SUBURBAN SEWER DISTRICT

NO.	DATE	BY	CHD.	APPR.	REVISION
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DRAWN BY: BJB, TAD
DESIGNED BY: BJB
CHECKED BY: BJB
APPROVED BY: AGC
DATE: NOVEMBER 20, 2018
J O B No. : 1600206
SCALE: AS NOTED

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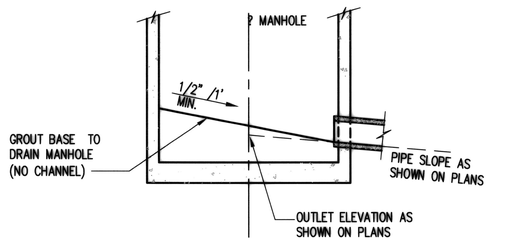
MARK A. VERDER STATE OF WASHINGTON 24711 REGISTERED PROFESSIONAL ENGINEER

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
SANITARY SEWER DETAILS

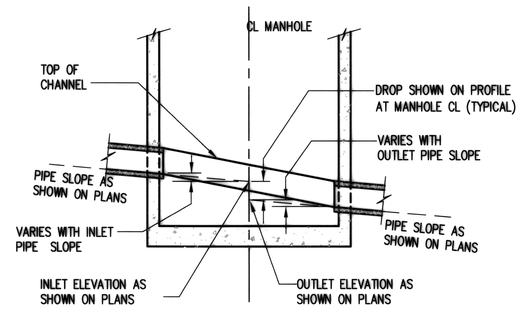
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SOUTHWEST SUBURBAN SEWER DISTRICT
RECORD DRAWINGS
APPROVED Ritch Schulz
1-23-2019
DATE



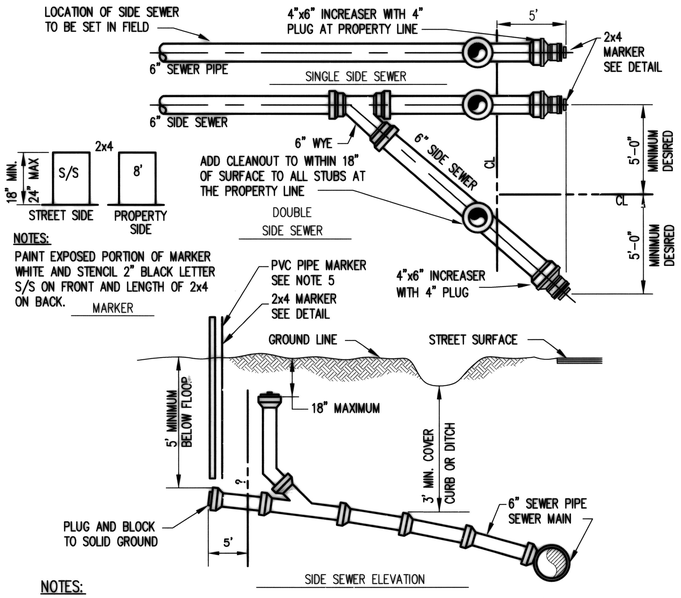
TERMINAL MANHOLE



MAIN-LINE MANHOLE

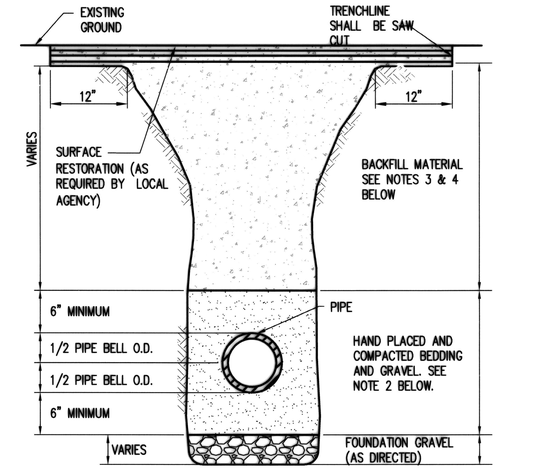
NOTE: CONSTRUCT CHANNEL AND SHELF IN FIELD. SHELF AND CHANNEL TO HAVE PLASTER SMOOTH FINISH. CHANNEL TO BE FULL DIAMETER AND DEPTH OF PIPE.

MANHOLE CHANNELING
SOUTHWEST SUBURBAN SEWER DISTRICT
8



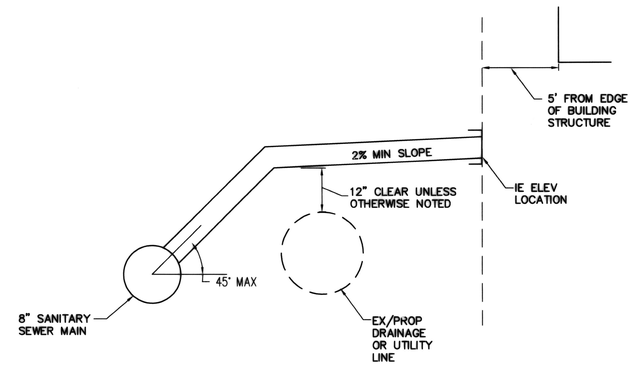
NOTES:
1. UNLESS OTHERWISE SHOWN ON PLAN, SIDE SEWER SHALL BE SLOPED 2% UP FROM SEWER LINE OR SHALL BE MIN. 5' COVER AT PROPERTY LINE OR 3.5' LOWER THAN THE LOWEST HOUSE ELEVATION, WHICHEVER IS LOWER.
2. 6" MINIMUM SIZE PIPE TO PROPERTY LINE. MAXIMUM DEFLECTION PER JOINT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3. MAXIMUM SLOPE = 2 VERTICAL : 1 HORIZONTAL.
4. MINIMUM SLOPE = 2%
5. A 1 1/4" WHITE PVC PIPE, ASTM 2241 SDR 21 200 PSI SHALL BE PLACED VERTICALLY AT THE END OF EACH STUB AND SHALL RISE TWO FEET ABOVE FINISH GRADE LEVEL OR AS APPROVED BY SWSSD. BOTH ENDS OF THE PVC PIPE SHALL HAVE CAPS GLUED ON AND THE PIPE INTERIOR KEPT CLEAN FOR THE PURPOSE OF FUTURE DEPTH MEASUREMENT.
6. PIPE SHALL BE PVC ASTM D3034.

STREET SIDE SEWER
SOUTHWEST SUBURBAN SEWER DISTRICT
10



NOTES:
1. MINIMUM TRENCH WIDTH SHALL BE: PIPE O.D.+12" (6" ON EACH SIDE OF PIPE). MAXIMUM TRENCH WIDTH SHALL BE: 40" FOR PIPE 18" DIAMETER AND SMALLER (1/2xI.D.)+18" FOR PIPE LARGER THAN 18"
2. BEDDING GRAVEL SHALL BE PLACED A MINIMUM OF 6" BELOW AND A MINIMUM OF 6" ABOVE THE PIPE. SEE PROJECT SPECIFICATIONS FOR BEDDING GRAVEL GRADUATION.
3. BACKFILL MATERIAL SHALL CONSIST OF IMPORTED GRAVEL MATERIAL AS REQUIRED OR DIRECTED. SEE PROJECT SPECIFICATIONS FOR GRADATION. CONTRACTOR SHALL TEST COMPACTION AS LEAST ONCE PER EVERY 300' TO ENSURE 95% COMPACTION.
4. CDF MAY BE REQUIRED IN ALL PAVED AREAS.
5. TRENCH SECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RIGHT-OF-WAY PERMIT.
6. IF USING NON-METALLIC PIPE, METALLIC LOCATOR TAPE SHALL BE BURIED 18-24" ABOVE THE SEWER PIPE. TAPE SHALL READ "CAUTION - BURIED SEWER LINE BELOW".

TYPICAL TRENCH SECTION
SOUTHWEST SUBURBAN SEWER DISTRICT
15



SANITARY SIDE SEWER DETAIL
NTS
A

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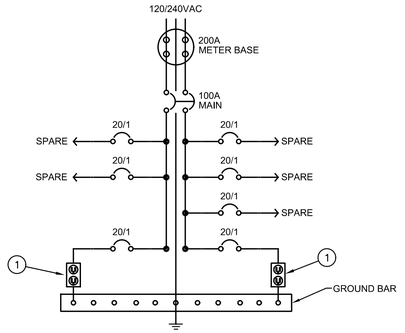
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King County Housing Authority

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KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
SANITARY SEWER DETAILS

SHEET
SS-21

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1 / E–1 PARK SERVICE CABINET ONELINE DIAGRAM

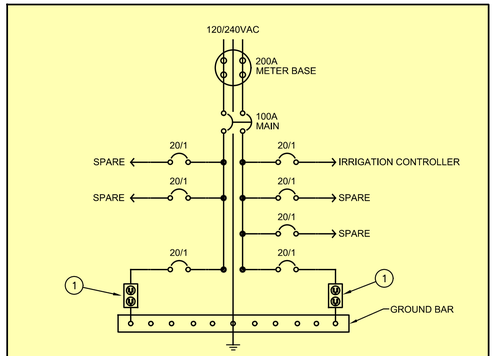
SCALE: NONE

CONSTRUCTION NOTES

1. NEMA 3R, PAD MOUNT, 1/8" ALUMINUM, MILL FINISH, REMOVABLE EQUIPMENT BACKPAN. TWO SCREENED VENTS. DOORS, LIFT OFF CONCEALED HINGES WITH STAINLESS STEEL VAULT STYLE HANDLE SEALED BY A CLOSED CELL NEOPRENE GASKET. WIRING PER UL #508 SUITABLE FOR USE AS SERVICE EQUIPMENT. MEETS EUSERC REQUIREMENTS.
CONTACT: MILBANK PEDESTALS. STOCK NUMBER CP3B11115A22 OR APPROVED.

NOTES

(1) PROVIDE WEATHERPROOF GFCI RECEPTACLES IN A CAST ALUMINUM, 1-GANG WEATHERPROOF COVER (HUBBELL WP26M) WITH PADLOCK & KEY LOCATED ON SIDE OF ENCLOSURE.



3 / E–1 PARK SERVICE CABINET ONELINE DIAGRAM

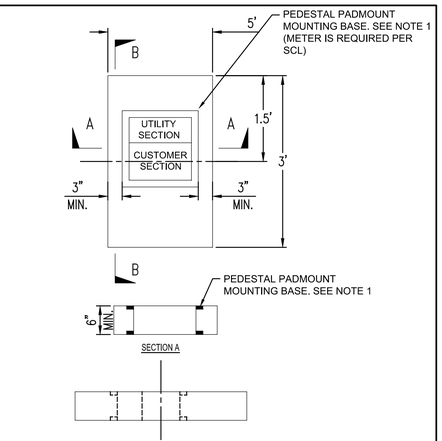
SCALE: NONE

CONSTRUCTION NOTES

1. NEMA 3R, PAD MOUNT, 1/8" ALUMINUM, MILL FINISH. REMOVABLE EQUIPMENT BACKPAN. TWO SCREENED VENTS. DOORS, LIFT OFF CONCEALED HINGES WITH STAINLESS STEEL VAULT STYLE HANDLE SEALED BY A CLOSED CELL NEOPRENE GASKET. WIRING PER UL #508 SUITABLE FOR USE AS SERVICE EQUIPMENT. MEETS EUSERC REQUIREMENTS.
CONTACT: MILBANK PEDESTALS. STOCK NUMBER CP3B11115A22 OR APPROVED.

NOTES

(1) PROVIDE WEATHERPROOF GFCI RECEPTACLES IN A CAST ALUMINUM, 1-GANG WEATHERPROOF COVER (HUBBELL WP26M) WITH PADLOCK & KEY LOCATED ON SIDE OF ENCLOSURE.

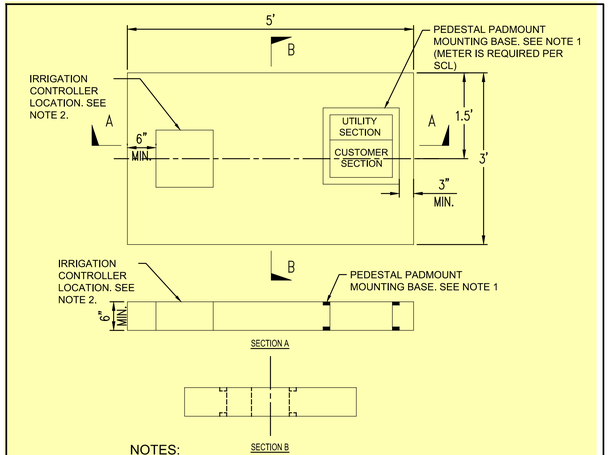


NOTES:

1. CONTRACTOR SHALL VERIFY OPENING SIZE AND PADMOUNT MOUNTING BASE LOCATION PRIOR TO CASTING THE PADMOUNT.
2. PADMOUNT SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE CLASS 4000 CONFORMING TO THE REQUIREMENTS OF WSDOT SPECIFICATION 5-05. CORNERS SHALL BE CHAMFERED.

2 / E–1 PADMOUNT PARK SERVICE CABINET DETAIL

SCALE: NONE



NOTES:

1. CONTRACTOR SHALL VERIFY OPENING SIZE AND PADMOUNT MOUNTING BASE LOCATION PRIOR TO CASTING THE PADMOUNT.
2. COORDINATE THE OPENING FOR THE IRRIGATION CONTROLLER PEDESTAL WITH LANDSCAPE ARCHITECT.
3. PADMOUNT SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE CLASS 4000 CONFORMING TO THE REQUIREMENTS OF WSDOT SPECIFICATION 5-05. CORNERS SHALL BE CHAMFERED.

4 / E–1 PADMOUNT PARK SERVICE CABINET DETAIL

SCALE: NONE

SEATTLE CITY LIGHT STREET LIGHTING GENERAL NOTES:

1. ALL DISCONNECTIONS: TEMPORARY OR FINAL SERVICE CONNECTIONS WILL BE MADE BY SEATTLE CITY LIGHT (SCL) AT PROJECT'S EXPENSE. COORDINATE ALL ENERGIZING AND DE-ENERGIZING OF STREET LIGHTING SERVICE WITH SCL ELECTRICAL SERVICE REPRESENTATIVE AND STREETLIGHT ENGINEER **FIFTEEN (15)** WORKING DAYS IN ADVANCE. ADDITIONAL TIME MAY BE NEEDED FOR CREW SCHEDULING AND MOBILIZATION.
2. CONTRACTOR MUST MAKE PRIOR COORDINATION FOR FLOOD OR STREETLIGHT REMOVAL. CONTRACTOR MUST MAKE PRIOR DELIVERY COORDINATION FOR SALVAGED STREETLIGHT-RELATED MATERIALS TO SEATTLE CITY LIGHT SALVAGE YARD AT 4TH AVE S & S SPOKANE ST, 98134. CONTACT SALVAGE COORDINATOR AT 206-386-1765. NO ARTERIAL STREETLIGHT MAY BE DISABLED WITHOUT PRIOR APPROVAL FROM SEATTLE DEPARTMENT OF TRANSPORTATION, (SDOT).
3. EXISTING STREET LIGHTING SYSTEM SHALL BE MAINTAINED DURING CONSTRUCTION.
4. WORK MUST BE SCHEDULED SUCH THAT NO TWO (2) ADJACENT OR OPPOSITE STREETLIGHTS ARE DISABLED AT ANY ONE TIME.
5. ANY EXCAVATION IN PROXIMITY TO AN EXISTING STREETLIGHT POLE MUST BE DONE WITHOUT UNDERMINING ITS STABILITY. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY STABILIZING SUPPORT.
6. INSTALLATION OF UNDERGROUND STREETLIGHT SYSTEMS, AND STREETLIGHT SYSTEM GROUNDING AND BONDING MUST BE PER SEATTLE CITY LIGHT (SCL) CONSTRUCTION STANDARD 1714.50.
7. ALL WIRING, INCLUDING STREET LIGHTING, PEDESTRIAN LIGHTING AND FESTOON LIGHTING CIRCUITS MUST BE CLEARLY LABELED PER SEATTLE CITY LIGHT (SCL) CONSTRUCTION STANDARD 1714.10.
8. EACH LUMINAIRE MUST BE FUSED PER (SCL) CONSTRUCTION STANDARD 1730.00.
9. STREETLIGHT HANDHOLE AND CONDUIT REQUIREMENTS MUST CONFORM TO SCL CONSTRUCTION STANDARD 1716.07.
10. PULL TAPE MUST BE INSTALLED THROUGH VACANT CONDUIT CAPPED PER (SCL) CONSTRUCTION STANDARD U2-11.40/NDK-40.
11. MAINTAIN MINIMUM HORIZONTAL & VERTICAL CLEARANCES BETWEEN SCL UNDERGROUND STRUCTURES, PROPERTY LINES AND VARIOUS OTHER UTILITY STRUCTURES PER SCL CONSTRUCTION STANDARD 0214.00.
12. FOR STREET LIGHTING INSPECTIONS CONTACT SCL ELECTRICAL REVIEWER **TEN (10)** WORKING DAYS IN ADVANCE.
13. CONTRACTOR MUST CALL FOR AN ELECTRICAL REVIEWER INSPECTION OF THE STREET LIGHTING SYSTEM AT VARIOUS STAGES OF INSTALLATION/CONSTRUCTION OR AS INSTRUCTED BY THE SCL INSPECTOR.
14. CONTRACTOR MUST PROVIDE AN OPERATOR AND MAN LIFT TRUCK FOR USE DURING INSPECTION OF INSTALLED STREETLIGHT FACILITIES.
15. CONTRACTOR MUST ASSIST THE INSPECTOR DURING INSPECTIONS, COMMISSIONING, AND FINAL CONNECTION PHASES OF THE PROJECT AS INSTRUCTED BY THE INSPECTOR. SUCH ASSISTANCE WILL INCLUDE, BUT NOT BE LIMITED TO OPENING HANDHOLES, MANHOLES AND VARIOUS ACCESS COVERS, DISCONNECTING AND RECONNECTING FUSE HOLDERS AND MECHANICAL SPLICE CONNECTIONS, VERIFYING CONDUIT RUNS, ETC.
16. PRIOR TO REQUESTING FINAL STREETLIGHT SERVICE CONNECTION, CONTRACTOR MUST CORRECT ALL PUNCH LIST ITEMS AND CALL FOR A RE-INSPECTION WHERE REQUIRED BY THE INSPECTOR. CONTRACTOR MUST PREPARE A SIGNED AS-BUILT AND WIRING DIAGRAM WHICH INCLUDES WHICH DUCT IS USED IN EACH DUCT BANK.

STREET LIGHT CONSTRUCTION

1. ALL WORKMANSHIP, MATERIALS AND TESTING SHALL BE IN ACCORDANCE WITH WSDOT STANDARDS SPECIFICATIONS AND NATIONAL ELECTRICAL CODE (NEC) AND SEATTLE CITY LIGHT CONSTRUCTION AND MATERIAL STANDARDS.
2. MODIFICATIONS OF ANY PORTION OF THE LIGHTING SYSTEM ARE PROHIBITED WITHOUT PRIOR APPROVAL BY KING COUNTY HOUSING AUTHORITY.
3. ALL WIRE SHALL BE INSTALLED IN SCHEDULE 80 PVC CONDUIT.
4. ELECTRICAL SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH ALL SEATTLE CITY LIGHT UTILITIES REQUIREMENTS AND EUSERC STANDARDS.
5. AFTER INSTALLATION AND BEFORE ACCEPTANCE BY THE CITY, ALL POLES SHALL BE FREE OF DENTS AND MARKS, SONOTUBE SHALL BE REMOVED TO BELOW GROUND LEVEL. POLE BASES SHALL BE GROUTED AND ALL LUMINAIRE HEADS SHALL BE PLUMB AND LEVEL.
6. CONDUIT SHALL EXTEND BETWEEN 3 AND 6 INCHES ABOVE THE CONCRETE BASE.

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1 inch = 20 ft. HORZ

NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY DPH — DESIGNED BY DPH
CHECKED BY DPH — APPROVED BY JCM
DATE MAY 26, 2020
J O B No. : 180803
S C A L E: AS NOTED

811 Call 811 two business days before you dig

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2702 SOUTH 42nd ST #301
TACOMA, WA 98409-7315
TEL (253) 472-3300
www.treswest.com

Greenbridge
King County Housing Authority

JANICE COLBY MARK — STATE OF WASHINGTON — 52226 — REGISTERED PROFESSIONAL ENGINEER — 5/26/2020

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
COVER SHEET

SHEET E-1

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Jun 02, 2020 - 7:35am dph

SEC. 6, T.23 N., R.4E., W.M.





KEY MAP
NTS

STREET LIGHT SCHEDULE

STREET LIGHT NO.	LOCATION	PROPOSED STATION *	OFFSET	POLE ID NO. **	MOUNTING HEIGHT	CIRCUIT	TYPE/WATT/DIST.	LUMINAIRE TYPE	BASE	FOUNDATION	COMMENTS
1	SW 97TH ST	101+66	22.5' LT	**	14'	2	LED/72W/TYPE V	POLE (14FT): SCL STOCK NO. 013425 LUMEC APR-4-F-001-14-BK-TX SHROUD (14FT POLE): SCL STOCK NO. 014248 POST TOP HEAD: SCL STOCK NO. 014473 ARCHITECTURAL AREA LIGHTING ETOAAL008854-PRMN-T5-LDL-48LED-4K-450MA-RAL9005TX PHOTOCONTROL HOUSING: SCL STOCK NO. 014474 ARCHITECTURAL AREA LIGHTING ETOAAL008842-PCA-UF-15A-1103-RAL9005TX BLACK	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
2	SW 97TH ST	103+30	22.5' LT	**	14'	1	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
3	SW 97TH ST	104+50	22.5' LT	**	14'	2	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
36	SW 97TH ST	103+94	20.5' RT	**	14'	1	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
37	SW 97TH ST	102+67	20.5' RT	**	14'	2	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
38	SW 97TH ST	101+27	20.5' RT	**	14'	1	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09

* STATIONS/OFFSETS ARE APPROXIMATE. CONTRACTOR SHALL CONFIRM ANY ADJUSTMENTS WITH ALL TRADES AND ENGINEER PRIOR TO IMPLEMENTING.
** TO BE NUMBERED AT THE TIME OF CONSTRUCTION.

LEGEND

(# = POLE #) 1	STREET LIGHT & FOUNDATION. SEE STREET LIGHT SCHEDULE THIS SHEET FOR ADDITIONAL INFORMATION
	HANDHOLE WITH ANTI SLIP LOCKING LID. (SEE SCL CONSTRUCTION STANDARD 1716.07) PROVIDE 1" TACK WELDS AT BOTH ENDS OF THE J-BOX LID. SEE SHEETS E-12 THRU E-15 FOR ADDITIONAL INFORMATION
#	SEE ELECTRICAL NOTES, SHEETS E-12 THRU E-15
#	SEE WIRING SCHEDULE, SHEETS E-12 THRU E-15
	UNDERGROUND CONDUIT & WIRE. (SEE ELECTRICAL NOTES AND WIRING SCHEDULE), SHEETS E-12 THRU E-15

GENERAL NOTES

1. SEE THIS SHEET AND SHEET E-1 FOR STREET LIGHTING GENERAL NOTES.
2. STREET LIGHTING SYSTEM GROUNDING AND BONDING SHALL BE PER SEATTLE CITY LIGHT (SCL) CONSTRUCTION STANDARD 1714.50.
3. FUSE INDIVIDUAL LUMINAIRE PER SCL CONSTRUCTION STANDARD 1730.00.
4. #12TX PER SCL MATL STANDARD 6404.45.
5. ELECTRICAL CONTRACTOR TO FIELD VERIFY AND COORDINATE EXACT LOCATION OF LIGHT POLES AND JUNCTION BOXES PRIOR TO ROUGH-IN. LIGHT POLES AND JUNCTION BOXES SHALL BE LOCATED OUT OF DRIVEWAYS. IN ADDITION, COORDINATE WITH ALL WATERLINES, METERS, SEWER, STORM AND TREE LOCATIONS WHERE APPLICABLE PRIOR TO ROUGH-IN.
6. SCL TO PERFORM ALL FINAL SITE LIGHTING CONNECTIONS TO SCL SERVICE VAULTS. CONTRACTOR TO CONSTRUCT ENTIRE SITE LIGHTING SYSTEM PER PLAN WITH FINAL CONNECTION WIRES TIED OFF AT SCL SECONDARY SERVICE VAULT FOR SCL TO COMPLETE FINAL CONNECTIONS.
7. REFER TO SHEETS E-12 THROUGH E-15 FOR INFORMATION REGARDING WIRING.
8. PEDESTRIAN LIGHTING AND THE ASSOCIATED LIGHTS, POLES, BASES, VAULTS, HAND HOLES, CONDUITS AND WIRING WITHIN THE RIGHT-OF-WAY SHALL BE OWNED AND MAINTAINED BY SEATTLE CITY LIGHT UNDER FRANCHISE AGREEMENT WITH KING COUNTY OR SUCCESSORS.

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1 inch = 20 ft. HORZ

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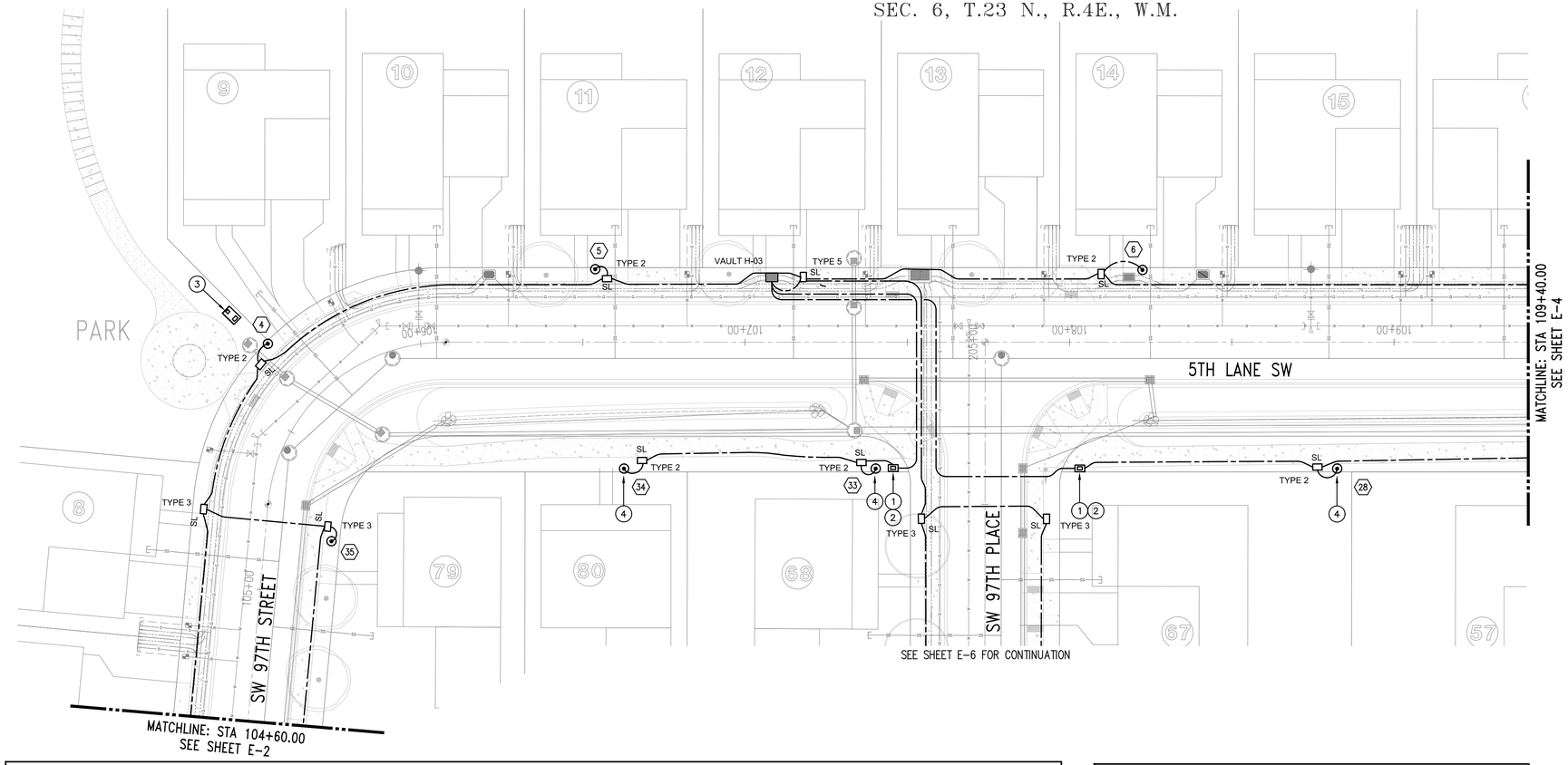
JASON COLBY MEYER — STATE OF WASHINGTON — 52228 — REGISTERED PROFESSIONAL ENGINEER
5/26/2020

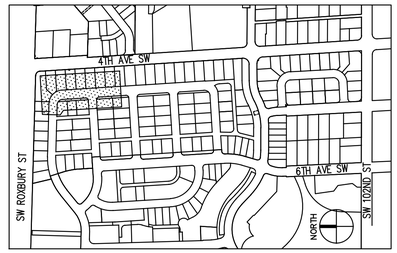
KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
PEDESTRIAN LIGHTING PLAN

SHEET E-2

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Jun 02, 2020 - 7:09am dph

SEC. 6, T.23 N., R.4E., W.M.





KEY MAP
NTS

STREET LIGHT SCHEDULE

STREET LIGHT NO.	LOCATION	PROPOSED STATION *	OFFSET	POLE ID NO. **	MOUNTING HEIGHT	CIRCUIT	TYPE/WATT/DIST.	LUMINAIRE TYPE	BASE	FOUNDATION	COMMENTS
4	5TH LANE SW	105+63	22.5' LT	**	14'	1	LED/72W/TYPE V	POLE (14FT): SCL STOCK NO. 013425 LUMEC APR-4-F-001-BK-TX	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
5	5TH LANE SW	106+54	22.5' LT	**	14'	2	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
6	5TH LANE SW	108+10	22.5' LT	**	14'	1	LED/72W/TYPE V	SHROUD (14FT POLE): SCL STOCK NO. 014248	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
28	5TH LANE SW	108+82	39.0' RT	**	14'	PARK	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
33	5TH LANE SW	107+40	39.0' RT	**	14'	PARK	LED/72W/TYPE V	POST TOP HEAD: SCL STOCK NO. 014473 ARCHITECTURAL AREA LIGHTING ETOAAL008854-PRMN-T5-LDL-48LED-4K-450MA-RAL9005TX	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
34	5TH LANE SW	106+63	39.0' RT	**	14'	PARK	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
35	SW 97TH STREET	105+17	20.5' RT	**	14'	2	LED/72W/TYPE V	PHOTOCONTROL HOUSING: SCL STOCK NO. 014474 ARCHITECTURAL AREA LIGHTING ETOAAL008842-PCA-UF-15A-1103-RAL9005TX BLACK	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09

* STATIONS/OFFSETS ARE APPROXIMATE. CONTRACTOR SHALL CONFIRM ANY ADJUSTMENTS WITH ALL TRADES AND ENGINEER PRIOR TO IMPLEMENTING.
** TO BE NUMBERED AT THE TIME OF CONSTRUCTION.

LEGEND

(# = POLE #) ⟨1⟩	STREET LIGHT & FOUNDATION. SEE STREET LIGHT SCHEDULE THIS SHEET FOR ADDITIONAL INFORMATION
▭	HANDHOLE WITH ANTI SLIP LOCKING LID. (SEE SCL CONSTRUCTION STANDARD 1716.07) PROVIDE 1" TACK WELDS AT BOTH ENDS OF THE J-BOX LID. SEE SHEETS E-12 THRU E-15 FOR ADDITIONAL INFORMATION
⬡ #	SEE ELECTRICAL NOTES, SHEETS E-12 THRU E-15
△ #	SEE WIRING SCHEDULE, SHEETS E-12 THRU E-15
——-—-——	UNDERGROUND CONDUIT & WIRE. (SEE ELECTRICAL NOTES AND WIRING SCHEDULE), SHEETS E-12 THRU E-15

GENERAL NOTES

1. SEE THIS SHEET AND SHEET E-1 FOR STREET LIGHTING GENERAL NOTES.
2. STREET LIGHTING SYSTEM GROUNDING AND BONDING SHALL BE PER SEATTLE CITY LIGHT (SCL) CONSTRUCTION STANDARD 1714.50.
3. FUSE INDIVIDUAL LUMINAIRE PER SCL CONSTRUCTION STANDARD 1730.00.
4. #12TX PER SCL MATL STANDARD 6404.45.
5. ELECTRICAL CONTRACTOR TO FIELD VERIFY AND COORDINATE EXACT LOCATION OF LIGHT POLES AND JUNCTION BOXES PRIOR TO ROUGH-IN. LIGHT POLES AND JUNCTION BOXES SHALL BE LOCATED OUT OF DRIVEWAYS. IN ADDITION, COORDINATE WITH ALL WATERLINES, METERS, SEWER, STORM AND TREE LOCATIONS WHERE APPLICABLE PRIOR TO ROUGH-IN.
6. SCL TO PERFORM ALL FINAL SITE LIGHTING CONNECTIONS TO SCL SERVICE VAULTS. CONTRACTOR TO CONSTRUCT ENTIRE SITE LIGHTING SYSTEM PER PLAN WITH FINAL CONNECTION WIRES TIED OFF AT SCL SECONDARY SERVICE VAULT FOR SCL TO COMPLETE FINAL CONNECTIONS.
7. REFER TO SHEETS E-12 THROUGH E-15 FOR INFORMATION REGARDING WIRING.
8. PEDESTRIAN LIGHTING AND THE ASSOCIATED LIGHTS, POLES, BASES, VAULTS, HAND HOLES, CONDUITS AND WIRING WITHIN THE RIGHT-OF-WAY SHALL BE OWNED AND MAINTAINED BY SEATTLE CITY LIGHT UNDER FRANCHISE AGREEMENT WITH KING COUNTY OR SUCCESSORS.

PLAN NOTES

1. PROVIDE LIGHTING PARK SERVICE CABINET AND FOUNDATION PAD. MILBANK # CP3B1115A22 OR APPROVED EQUAL. SEE PARK SERVICE CABINET ONELINE DIAGRAM 1 ON SHEET E-1 AND PADMOUNT PARK SERVICE CABINET DETAIL 2 ON SHEET E-1 FOR ADDITIONAL INFORMATION AND REQUIREMENTS. COORDINATE ALL REQUIREMENTS AND CONNECTIONS WITH SEATTLE CITY LIGHT. PARK SERVICE CABINET OWNED AND MAINTAINED BY KCHA. CONFIRM LOCATION OF PARK SERVICE CABINET PRIOR TO ROUGH-IN. COORDINATE WITH KCHA FOR ADDITIONAL REQUIRED CONNECTIONS TO PARK SERVICE CABINET; RECEPTACLES, ETC.
2. CONTRACTOR TO ROUTE (1) 3" CONDUIT TO SCL VAULT H-03 FOR CONNECTION OF METERED PARK SERVICE CABINET. SEE SHEET E-3 FOR LOCATION OF H-03 VAULT. COORDINATE ALL REQUIREMENTS AND CONNECTIONS WITH SEATTLE CITY LIGHT.
3. PARK SERVICE CABINET. INSTALLED AS PART OF GREENBRIDGE DIV 8 "ENTRY CORNER PARK P-801" PLANS. KC PROJ# GRDE20-0007. SCL WO# 1710740.
4. PRIVATELY OWNED AND MAINTAINED PEDESTRIAN LIGHT AND ASSOCIATED INFRASTRUCTURE.

N

0 10 20 40
1 inch = 20 ft. HORZ

NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY DPH | DESIGNED BY DPH
CHECKED BY DPH | APPROVED BY JCM
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S C A L E: AS NOTED

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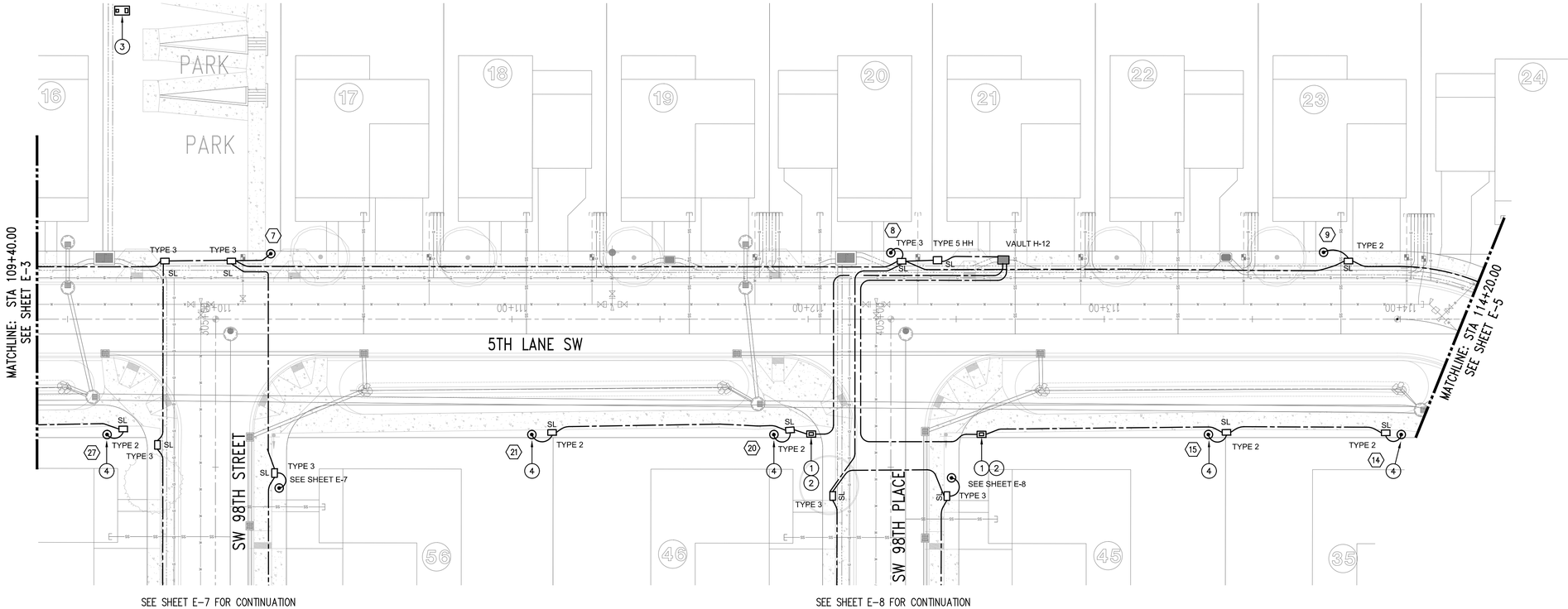
JANET COLBY MERRICK — STATE OF WASHINGTON — 52926 — REGISTERED PROFESSIONAL ENGINEER
5/26/2020

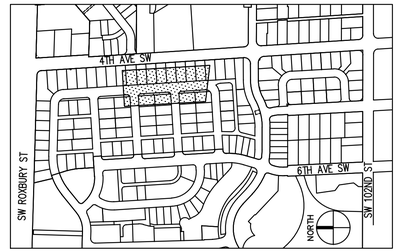
KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
PEDESTRIAN LIGHTING PLAN

SHEET
E-3

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Jun 02, 2020 - 7:10am dph

SEC. 6, T.23 N., R.4E., W.M.





KEY MAP
NTS

STREET LIGHT SCHEDULE

STREET LIGHT NO.	LOCATION	PROPOSED STATION *	OFFSET	POLE ID NO. **	MOUNTING HEIGHT	CIRCUIT	TYPE/WATT/DIST.	LUMINAIRE TYPE	BASE	FOUNDATION	COMMENTS
7	5TH LANE SW	110+19	22.5' LT	**	14'	1	LED/72W/TYPE V	POLE (14FT): SCL STOCK NO. 013425 LUMEC APR-4-F-001-14-BK-TX SHROUD (14FT POLE): SCL STOCK NO. 014248 POST TOP HEAD: SCL STOCK NO. 014473 ARCHITECTURAL AREA LIGHTING ETOAAL008854-PRMN-T5-LDL-48LED-4K-450MA-RAL9005TX PHOTOCONTROL HOUSING: SCL STOCK NO. 014474 ARCHITECTURAL AREA LIGHTING ETOAAL008842-PCA-UF-15A-1103-RAL9005TX BLACK	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
8	5TH LANE SW	112+32	22.5' LT	**	14'	2	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
9	5TH LANE SW	113+74	22.5' LT	**	14'	1	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
14	5TH LANE SW	114+03	39.0' RT	**	14'	PARK	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
15	5TH LANE SW	113+35	39.0' RT	**	14'	PARK	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
20	5TH LANE SW	111+88	39.0' RT	**	14'	PARK	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
21	5TH LANE SW	111+07	39.0' RT	**	14'	PARK	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
27	5TH LANE SW	109+63	39.0' RT	**	14'	PARK	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09

* STATIONS/OFFSETS ARE APPROXIMATE. CONTRACTOR SHALL CONFIRM ANY ADJUSTMENTS WITH ALL TRADES AND ENGINEER PRIOR TO IMPLEMENTING.
** TO BE NUMBERED AT THE TIME OF CONSTRUCTION.

LEGEND

(# = POLE #) 1	STREET LIGHT & FOUNDATION. SEE STREET LIGHT SCHEDULE THIS SHEET FOR ADDITIONAL INFORMATION
	HANDHOLE WITH ANTI SLIP LOCKING LID. (SEE SCL CONSTRUCTION STANDARD 1716.07) PROVIDE 1" TACK WELDS AT BOTH ENDS OF THE J-BOX LID. SEE SHEETS E-12 THRU E-15 FOR ADDITIONAL INFORMATION
#	SEE ELECTRICAL NOTES, SHEETS E-12 THRU E-15
#	SEE WIRING SCHEDULE, SHEETS E-12 THRU E-15
	UNDERGROUND CONDUIT & WIRE. (SEE ELECTRICAL NOTES AND WIRING SCHEDULE), SHEETS E-12 THRU E-15

GENERAL NOTES

1. SEE THIS SHEET AND SHEET E-1 FOR STREET LIGHTING GENERAL NOTES.
2. STREET LIGHTING SYSTEM GROUNDING AND BONDING SHALL BE PER SEATTLE CITY LIGHT (SCL) CONSTRUCTION STANDARD 1714.50.
3. FUSE INDIVIDUAL LUMINAIRE PER SCL CONSTRUCTION STANDARD 1730.00.
4. #12TX PER SCL MATL STANDARD 6404.45.
5. ELECTRICAL CONTRACTOR TO FIELD VERIFY AND COORDINATE EXACT LOCATION OF LIGHT POLES AND JUNCTION BOXES PRIOR TO ROUGH-IN. LIGHT POLES AND JUNCTION BOXES SHALL BE LOCATED OUT OF DRIVEWAYS. IN ADDITION, COORDINATE WITH ALL WATERLINES, METERS, SEWER, STORM AND TREE LOCATIONS WHERE APPLICABLE PRIOR TO ROUGH-IN.
6. SCL TO PERFORM ALL FINAL SITE LIGHTING CONNECTIONS TO SCL SERVICE VAULTS. CONTRACTOR TO CONSTRUCT ENTIRE SITE LIGHTING SYSTEM PER PLAN WITH FINAL CONNECTION WIRES TIED OFF AT SCL SECONDARY SERVICE VAULT FOR SCL TO COMPLETE FINAL CONNECTIONS.
7. REFER TO SHEETS E-12 THROUGH E-15 FOR INFORMATION REGARDING WIRING.
8. PEDESTRIAN LIGHTING AND THE ASSOCIATED LIGHTS, POLES, BASES, VAULTS, HAND HOLES, CONDUITS AND WIRING WITHIN THE RIGHT-OF-WAY SHALL BE OWNED AND MAINTAINED BY SEATTLE CITY LIGHT UNDER FRANCHISE AGREEMENT WITH KING COUNTY OR SUCCESSORS.

PLAN NOTES

1. PROVIDE LIGHTING PARK SERVICE CABINET AND FOUNDATION PAD. MILBANK # CP3811115A22 OR APPROVED EQUAL. SEE PARK SERVICE CABINET ONELINE DIAGRAM 1 ON SHEET E-1 AND PADMOUNT PARK SERVICE CABINET DETAIL 2 ON SHEET E-1 FOR ADDITIONAL INFORMATION AND REQUIREMENTS. COORDINATE ALL REQUIREMENTS AND CONNECTIONS WITH SEATTLE CITY LIGHT. PARK SERVICE CABINET OWNED AND MAINTAINED BY KCHA. CONFIRM LOCATION OF PARK SERVICE CABINET PRIOR TO ROUGH-IN. COORDINATE WITH KCHA FOR ADDITIONAL REQUIRED CONNECTIONS TO PARK SERVICE CABINET; RECEPTACLES, ETC.
2. CONTRACTOR TO ROUTE (1) 3" CONDUIT TO SCL VAULT H-12 FOR CONNECTION OF METERED PARK SERVICE CABINET. SEE SHEET E-4 FOR LOCATION OF H-12 VAULT. COORDINATE ALL REQUIREMENTS AND CONNECTIONS WITH SEATTLE CITY LIGHT.
3. PARK SERVICE CABINET. INSTALLED AS PART OF GREENBRIDGE DIV 8 "4TH AVE SW " PLANS. KC PROJ# ROWP18-0003. SCL WO# 1710740.
4. PRIVATELY OWNED AND MAINTAINED PEDESTRIAN LIGHT AND ASSOCIATED INFRASTRUCTURE.

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1 inch = 20 ft. HORZ

NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY DPH | DESIGNED BY DPH
CHECKED BY DPH | APPROVED BY JCM
DATE MAY 26, 2020
J O B No. : 180803

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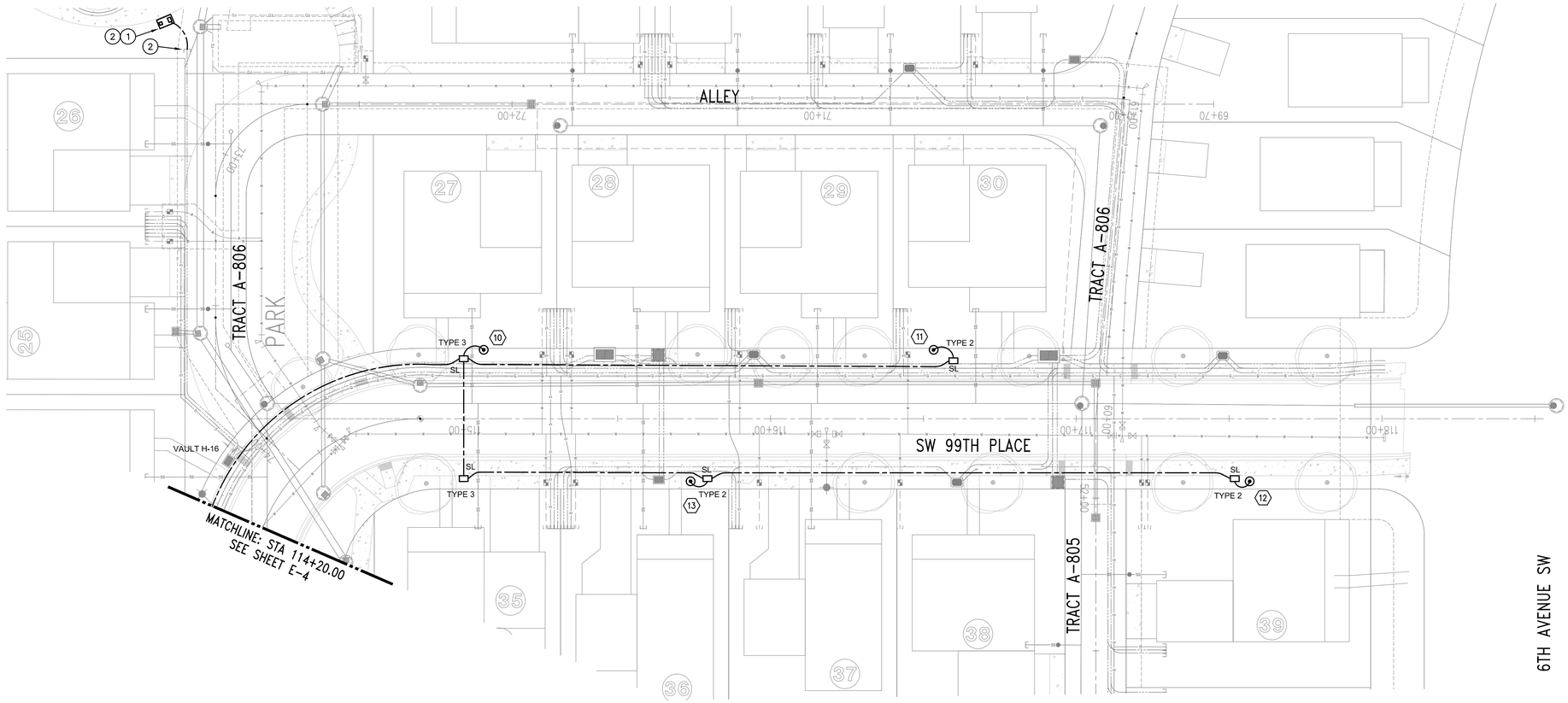
JANICE COLBY MELNICK — STATE OF WASHINGTON — 52226 — REGISTERED PROFESSIONAL ENGINEER — 5/26/2020

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
PEDESTRIAN LIGHTING PLAN

SHEET E-4

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Jun 02, 2020 - 7:13am dph

SEC. 6, T.23 N., R.4E., W.M.





KEY MAP
NTS

STREET LIGHT SCHEDULE

STREET LIGHT NO.	LOCATION	PROPOSED STATION *	OFFSET	POLE ID NO. **	MOUNTING HEIGHT	CIRCUIT	TYPE/WATT/DIST.	LUMINAIRE TYPE	BASE	FOUNDATION	COMMENTS
10	SW 99TH PLACE	115+06	22.5' LT	**	14'	2	LED/72W/TYPE V	POLE (14FT): SCL STOCK NO. 013425 LUMEC APR-4-F-001-14-BK-TX	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
11	SW 99TH PLACE	116+54	22.5' LT	**	14'	1	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
12	SW 99TH PLACE	117+57	20.5' RT	**	14'	2	LED/72W/TYPE V	SHROUD (14FT POLE): SCL STOCK NO. 014248	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
13	SW 99TH PLACE	115+74	20.5' RT	**	14'	1	LED/72W/TYPE V	POST TOP HEAD: SCL STOCK NO. 014473 ARCHITECTURAL AREA LIGHTING ETOAAL008854-PRMN-T5-LDL-48LED-4K-450MA-RAL9005TX	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
								PHOTOCONTROL HOUSING: SCL STOCK NO. 014474 ARCHITECTURAL AREA LIGHTING ETOAAL008842-PCA-UF-15A-1103-RAL9005TX BLACK			

* STATIONS/OFFSETS ARE APPROXIMATE. CONTRACTOR SHALL CONFIRM ANY ADJUSTMENTS WITH ALL TRADES AND ENGINEER PRIOR TO IMPLEMENTING.
** TO BE NUMBERED AT THE TIME OF CONSTRUCTION.

LEGEND

(# = POLE #) 1	STREET LIGHT & FOUNDATION. SEE STREET LIGHT SCHEDULE THIS SHEET FOR ADDITIONAL INFORMATION
	HANDHOLE WITH ANTI SLIP LOCKING LID. (SEE SCL CONSTRUCTION STANDARD 1716.07) PROVIDE 1" TACK WELDS AT BOTH ENDS OF THE J-BOX LID. SEE SHEETS E-12 THRU E-15 FOR ADDITIONAL INFORMATION
#	SEE ELECTRICAL NOTES, SHEETS E-12 THRU E-15
#	SEE WIRING SCHEDULE, SHEETS E-12 THRU E-15
	UNDERGROUND CONDUIT & WIRE. (SEE ELECTRICAL NOTES AND WIRING SCHEDULE), SHEETS E-12 THRU E-15

GENERAL NOTES

1. SEE THIS SHEET AND SHEET E-1 FOR STREET LIGHTING GENERAL NOTES.
2. STREET LIGHTING SYSTEM GROUNDING AND BONDING SHALL BE PER SEATTLE CITY LIGHT (SCL) CONSTRUCTION STANDARD 1714.50.
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4. #12TX PER SCL MATL STANDARD 6404.45.
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7. REFER TO SHEETS E-12 THROUGH E-15 FOR INFORMATION REGARDING WIRING.
8. PEDESTRIAN LIGHTING AND THE ASSOCIATED LIGHTS, POLES, BASES, VAULTS, HAND HOLES, CONDUITS AND WIRING WITHIN THE RIGHT-OF-WAY SHALL BE OWNED AND MAINTAINED BY SEATTLE CITY LIGHT UNDER FRANCHISE AGREEMENT WITH KING COUNTY OR SUCCESSORS.

PLAN NOTES

(1) PROVIDE LIGHTING PARK SERVICE CABINET AND FOUNDATION PAD. MILBANK # CP3B11115A22 OR APPROVED EQUAL. SEE PARK SERVICE CABINET ONELINE DIAGRAM 3 ON SHEET E-1 AND PADMOUNT PARK SERVICE CABINET DETAIL 4 ON SHEET E-1 FOR ADDITIONAL INFORMATION AND REQUIREMENTS. COORDINATE ALL REQUIREMENTS AND CONNECTIONS WITH SEATTLE CITY LIGHT. PARK SERVICE CABINET OWNED AND MAINTAINED BY KCHA. CONFIRM LOCATION OF PARK SERVICE CABINET PRIOR TO ROUGH-IN. COORDINATE WITH KCHA FOR ADDITIONAL REQUIRED CONNECTIONS TO PARK SERVICE CABINET; RECEPTACLES, ETC.

(2) CONTRACTOR TO ROUTE (1) 3" CONDUIT FROM PARK SERVICE CABINET AND INTERCEPT 3" CONDUIT AT STUBBED LOCATION AS SHOWN FOR CONNECTION OF METERED PARK SERVICE CABINET. SEE SHEET E-5 FOR LOCATION OF H-16 VAULT, SERVICE POINT FOR PARK SERVICE CABINET. COORDINATE ALL REQUIREMENTS AND CONNECTIONS WITH SEATTLE CITY LIGHT.

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1 inch = 20 ft. HORZ

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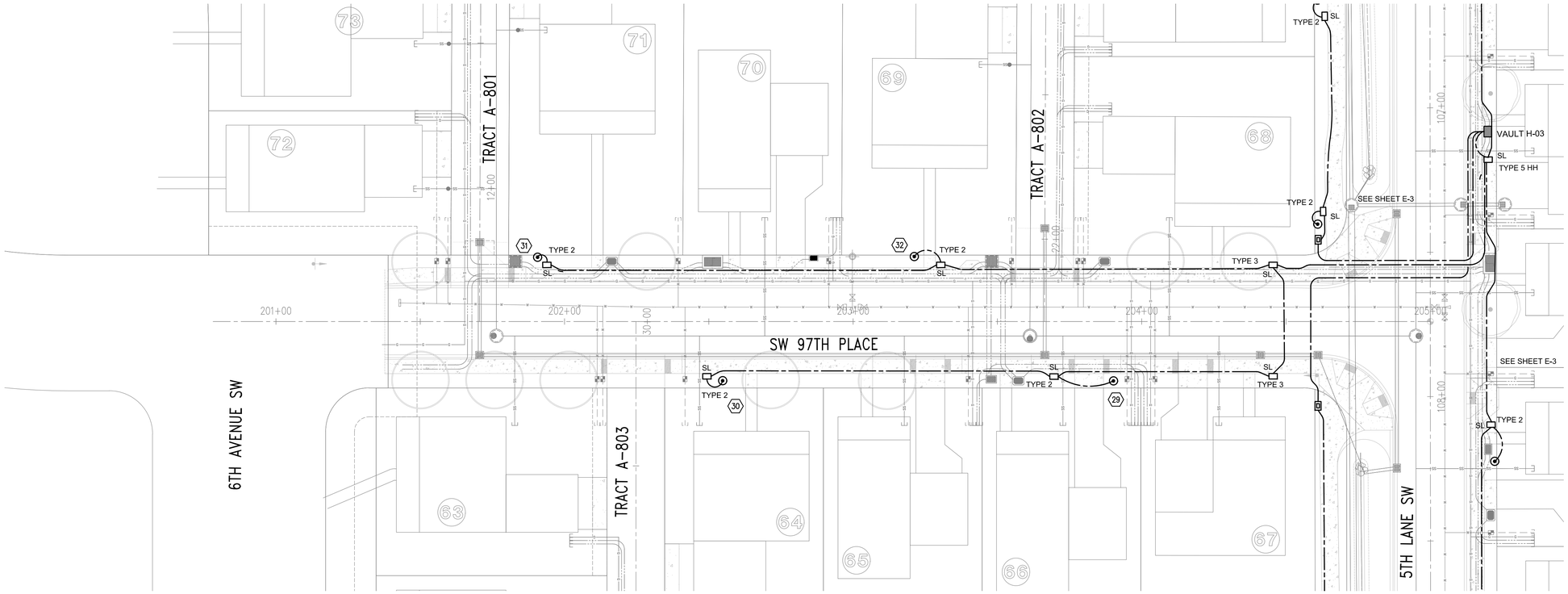
JANICE COLBY MARK — STATE OF WASHINGTON — 52226 — REGISTERED PROFESSIONAL ENGINEER — 5/26/2020

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
PEDESTRIAN LIGHTING PLAN

SHEET E-5

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Jun 02, 2020 - 7:14am dph

SEC. 6, T.23 N., R.4E., W.M.





KEY MAP
NTS

STREET LIGHT SCHEDULE

STREET LIGHT NO.	LOCATION	PROPOSED STATION *	OFFSET	POLE ID NO. **	MOUNTING HEIGHT	CIRCUIT	TYPE/WATT/DIST.	LUMINAIRE TYPE	BASE	FOUNDATION	COMMENTS
29	SW 97TH PLACE	203+90	20.5' RT	**	14'	1	LED/72W/TYPE V	POLE (14FT): SCL STOCK NO. 013425 LUMEC APR-4-F-001-14-BK-TX SHROUD (14FT POLE): SCL STOCK NO. 014248 POST TOP HEAD: SCL STOCK NO. 014473 ARCHITECTURAL AREA LIGHTING ETOAAL008854-PRMN-T5-LDL-48LED-4K-450MA-RAL9005TX PHOTOCONTROL HOUSING: SCL STOCK NO. 014474 ARCHITECTURAL AREA LIGHTING ETOAAL008842-PCA-UF-15A-1103-RAL9005TX BLACK	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
30	SW 97TH PLACE	202+55	20.5' RT	**	14'	2	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
31	SW 97TH PLACE	201+91	22.5' LT	**	14'	1	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
32	SW 97TH PLACE	203+21	22.5' LT	**	14'	2	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09

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LEGEND

(# = POLE #) 1	STREET LIGHT & FOUNDATION. SEE STREET LIGHT SCHEDULE THIS SHEET FOR ADDITIONAL INFORMATION
	HANDHOLE WITH ANTI SLIP LOCKING LID. (SEE SCL CONSTRUCTION STANDARD 1716.07) PROVIDE 1" TACK WELDS AT BOTH ENDS OF THE J-BOX LID. SEE SHEETS E-12 THRU E-15 FOR ADDITIONAL INFORMATION
#	SEE ELECTRICAL NOTES, SHEETS E-12 THRU E-15
#	SEE WIRING SCHEDULE, SHEETS E-12 THRU E-15
	UNDERGROUND CONDUIT & WIRE. (SEE ELECTRICAL NOTES AND WIRING SCHEDULE), SHEETS E-12 THRU E-15

GENERAL NOTES

1. SEE THIS SHEET AND SHEET E-1 FOR STREET LIGHTING GENERAL NOTES.
2. STREET LIGHTING SYSTEM GROUNDING AND BONDING SHALL BE PER SEATTLE CITY LIGHT (SCL) CONSTRUCTION STANDARD 1714.50.
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6. SCL TO PERFORM ALL FINAL SITE LIGHTING CONNECTIONS TO SCL SERVICE VAULTS. CONTRACTOR TO CONSTRUCT ENTIRE SITE LIGHTING SYSTEM PER PLAN WITH FINAL CONNECTION WIRES TIED OFF AT SCL SECONDARY SERVICE VAULT FOR SCL TO COMPLETE FINAL CONNECTIONS.
7. REFER TO SHEETS E-12 THROUGH E-15 FOR INFORMATION REGARDING WIRING.
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1 inch = 20 ft. HORZ

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JANICE COLBY MELNICK — STATE OF WASHINGTON — 52228 — REGISTERED PROFESSIONAL ENGINEER — 5/26/2020

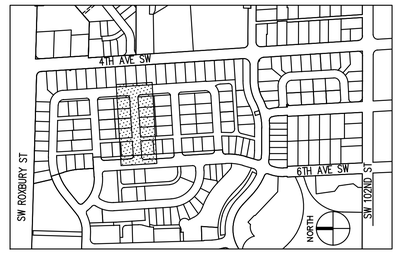
KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
PEDESTRIAN LIGHTING PLAN

SHEET E-6

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Jun 02, 2020 - 7:15am dph

SEC. 6, T.23 N., R.4E., W.M.





KEY MAP
NTS

STREET LIGHT SCHEDULE

STREET LIGHT NO.	LOCATION	PROPOSED STATION *	OFFSET	POLE ID NO. **	MOUNTING HEIGHT	CIRCUIT	TYPE/WATT/DIST.	LUMINAIRE TYPE	BASE	FOUNDATION	COMMENTS
22	SW 98TH STREET	304+43	21.5' RT	**	14'	2	LED/72W/TYPE V	POLE (14FT): SCL STOCK NO. 013425 LUMEC APR-4-F-001-14-BK-TX SHROUD (14FT POLE): SCL STOCK NO. 014248 POST TOP HEAD: SCL STOCK NO. 014473 ARCHITECTURAL AREA LIGHTING ETOAAL008854-PRMN-T5-LDL-48LED-4K-450MA-RAL9005TX PHOTOCONTROL HOUSING: SCL STOCK NO. 014474 ARCHITECTURAL AREA LIGHTING ETOAAL008842-PCA-UF-15A-1103-RAL9005TX BLACK	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
23	SW 98TH STREET	303+03	21.5' RT	**	14'	1	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
24	SW 98TH STREET	301+86	21.5' RT	**	14'	2	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
25	SW 98TH STREET	302+45	22.5' LT	**	14'	1	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
26	SW 98TH STREET	303+66	22.5' LT	**	14'	2	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09

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LEGEND

(# = POLE #) 1	STREET LIGHT & FOUNDATION. SEE STREET LIGHT SCHEDULE THIS SHEET FOR ADDITIONAL INFORMATION
	HANDHOLE WITH ANTI SLIP LOCKING LID. (SEE SCL CONSTRUCTION STANDARD 1716.07) PROVIDE 1" TACK WELDS AT BOTH ENDS OF THE J-BOX LID. SEE SHEETS E-12 THRU E-15 FOR ADDITIONAL INFORMATION
#	SEE ELECTRICAL NOTES, SHEETS E-12 THRU E-15
#	SEE WIRING SCHEDULE, SHEETS E-12 THRU E-15
——— – ———	UNDERGROUND CONDUIT & WIRE. (SEE ELECTRICAL NOTES AND WIRING SCHEDULE), SHEETS E-12 THRU E-15

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1. SEE THIS SHEET AND SHEET E-1 FOR STREET LIGHTING GENERAL NOTES.
2. STREET LIGHTING SYSTEM GROUNDING AND BONDING SHALL BE PER SEATTLE CITY LIGHT (SCL) CONSTRUCTION STANDARD 1714.50.
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1 inch = 20 ft. HORZ

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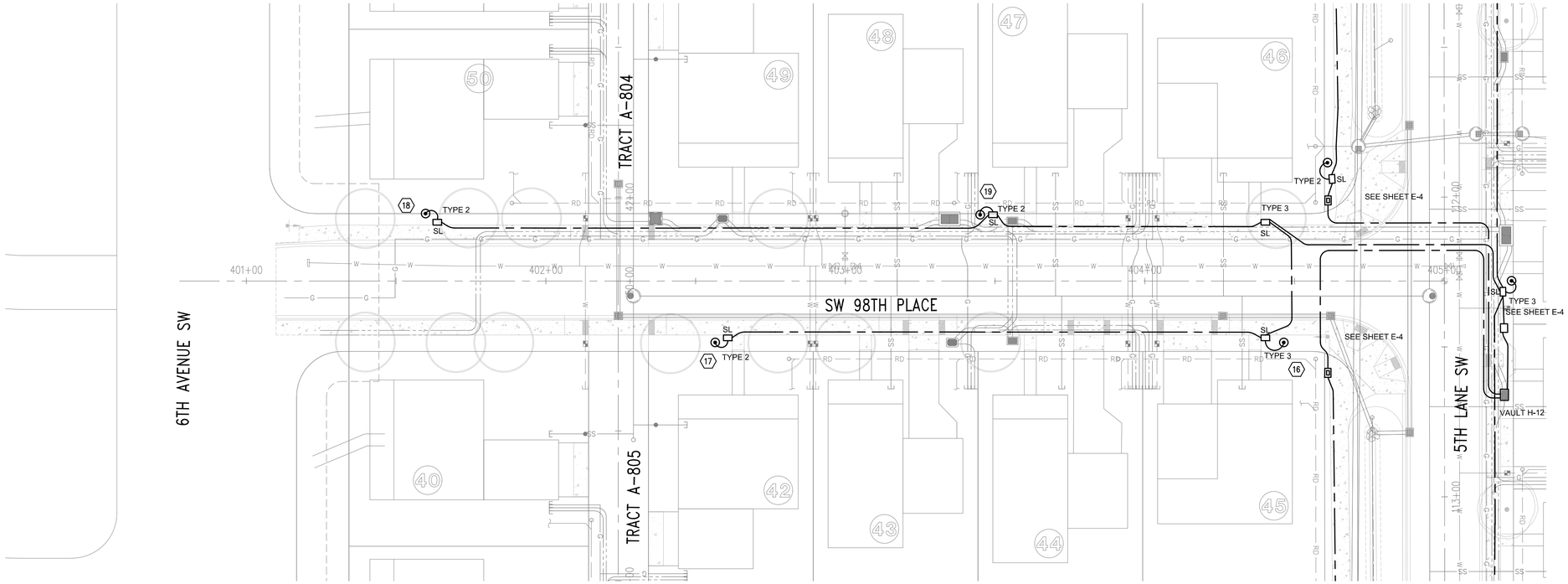
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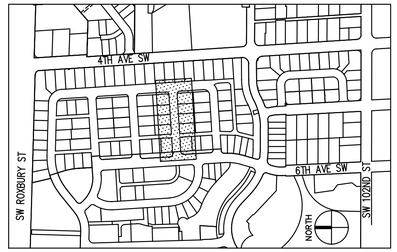
KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
PEDESTRIAN LIGHTING PLAN

SHEET E-7

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SEC. 6, T.23 N., R.4E., W.M.





KEY MAP
NTS

STREET LIGHT SCHEDULE

STREET LIGHT NO.	LOCATION	PROPOSED STATION *	OFFSET	POLE ID NO. **	MOUNTING HEIGHT	CIRCUIT	TYPE/WATT/DIST.	LUMINAIRE TYPE	BASE	FOUNDATION	COMMENTS
16	SW 98TH PLACE	402+46	20.5' RT	**	14'	1	LED/72W/TYPE V	POLE (14FT): SCL STOCK NO. 013425 LUMEC APR-4-F-001-14-BK-TX SHROUD (14FT POLE): SCL STOCK NO. 014248 POST TOP HEAD: SCL STOCK NO. 014473 ARCHITECTURAL AREA LIGHTING ETOAAL008854-PRMN-T5-LDL-48LED-4K-450MA-RAL9005TX PHOTOCONTROL HOUSING: SCL STOCK NO. 014474 ARCHITECTURAL AREA LIGHTING ETOAAL008842-PCA-IJF-15A-1103-RAL9005TX BLACK	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
17	SW 98TH PLACE	402+57	20.5' RT	**	14'	2	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
18	SW 98TH PLACE	401+60	22.5' LT	**	14'	1	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
19	SW 98TH PLACE	403+44	22.5' LT	**	14'	2	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09

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LEGEND

(# = POLE #) 1	STREET LIGHT & FOUNDATION. SEE STREET LIGHT SCHEDULE THIS SHEET FOR ADDITIONAL INFORMATION
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	SEE WIRING SCHEDULE, SHEETS E-12 THRU E-15
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Greenbridge
King County Housing Authority

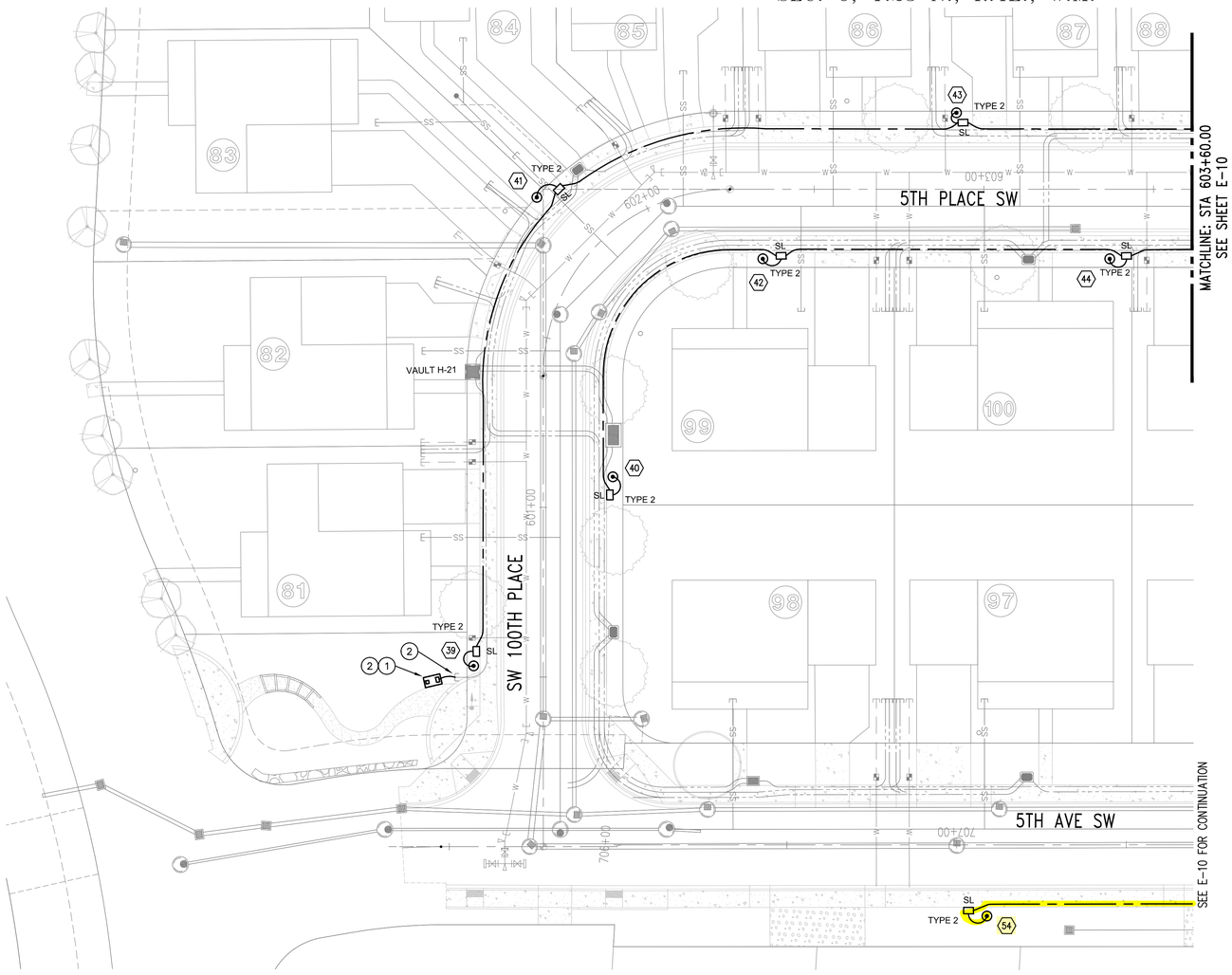
JASON COLBY MICHALEK — STATE OF WASHINGTON — 52228 — REGISTERED PROFESSIONAL ENGINEER — 5/26/2020

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
PEDESTRIAN LIGHTING PLAN

SHEET E-8

P:\Proj2018\180803 Greenbridge - Division 8\Drawings\01 Working Drawings\180803_E-8 (SW 98TH PL).dwg
Jun 02, 2020 - 7:17am dph

SEC. 6, T.23 N., R.4E., W.M.





KEY MAP

NTS

PLAN NOTES

1. PROVIDE LIGHTING PARK SERVICE CABINET AND FOUNDATION PAD. MILBANK # CP3B1111SA22 OR APPROVED EQUAL. SEE PARK SERVICE CABINET ONELINE DIAGRAM 3 ON SHEET E-1 AND PADMOUNT PARK SERVICE CABINET DETAIL 4 ON SHEET E-1 FOR ADDITIONAL INFORMATION AND REQUIREMENTS. COORDINATE ALL REQUIREMENTS AND CONNECTIONS WITH SEATTLE CITY LIGHT. PARK SERVICE CABINET OWNED AND MAINTAINED BY KCHA. CONFIRM LOCATION OF PARK SERVICE CABINET PRIOR TO ROUGH-IN. COORDINATE WITH KCHA FOR ADDITIONAL REQUIRED CONNECTIONS TO PARK SERVICE CABINET; RECEPTACLES, IRRIGATION CONTROLLER, ETC.

2. CONTRACTOR TO ROUTE (1) 3" CONDUIT FROM PARK SERVICE CABINET AND INTERCEPT 3" CONDUIT AT STUBBED LOCATION AS SHOWN FOR CONNECTION OF METERED PARK SERVICE CABINET. SEE SHEET E-9 FOR LOCATION OF H-21 VAULT, SERVICE POINT FOR PARK SERVICE CABINET. COORDINATE ALL REQUIREMENTS AND CONNECTIONS WITH SEATTLE CITY LIGHT.

GENERAL NOTES

1. SEE THIS SHEET AND SHEET E-1 FOR STREET LIGHTING GENERAL NOTES.
2. STREET LIGHTING SYSTEM GROUNDING AND BONDING SHALL BE PER SEATTLE CITY LIGHT (SCL) CONSTRUCTION STANDARD 1714.50.
3. FUSE INDIVIDUAL LUMINAIRE PER SCL CONSTRUCTION STANDARD 1730.00.
4. #12TX PER SCL MATL STANDARD 6404.45.
5. ELECTRICAL CONTRACTOR TO FIELD VERIFY AND COORDINATE EXACT LOCATION OF LIGHT POLES AND JUNCTION BOXES PRIOR TO ROUGH-IN. LIGHT POLES AND JUNCTION BOXES SHALL BE LOCATED OUT OF DRIVEWAYS. IN ADDITION, COORDINATE WITH ALL WATERLINES, METERS, SEWER, STORM AND TREE LOCATIONS WHERE APPLICABLE PRIOR TO ROUGH-IN.
6. SCL TO PERFORM ALL FINAL SITE LIGHTING CONNECTIONS TO SCL SERVICE VAULTS. CONTRACTOR TO CONSTRUCT ENTIRE SITE LIGHTING SYSTEM PER PLAN WITH FINAL CONNECTION WIRES TIED OFF AT SCL SECONDARY SERVICE VAULT FOR SCL TO COMPLETE FINAL CONNECTIONS.
7. REFER TO SHEETS E-12 THROUGH E-15 FOR INFORMATION REGARDING WIRING.
8. PEDESTRIAN LIGHTING AND THE ASSOCIATED LIGHTS, POLES, BASES, VAULTS, HAND HOLES, CONDUITS AND WIRING WITHIN THE RIGHT-OF-WAY SHALL BE OWNED AND MAINTAINED BY SEATTLE CITY LIGHT UNDER FRANCHISE AGREEMENT WITH KING COUNTY OR SUCCESSORS.

STREET LIGHT SCHEDULE

STREET LIGHT NO.	LOCATION	PROPOSED STATION *	OFFSET	POLE ID NO. **	MOUNTING HEIGHT	CIRCUIT	TYPE/WATT/DIST.	LUMINAIRE TYPE	BASE	FOUNDATION	COMMENTS
39	SW 100TH PLACE	600+53	22.5' LT	**	14'	1	LED/72W/TYPE V	POLE (14FT): SCL STOCK NO. 013425 LUMEC APR-4-F-001-14-BK-TX	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
40	SW 100TH PLACE	601+09	20.5' RT	**	14'	1	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
41	SW 100TH PLACE	601+78	22.5' LT	**	14'	2	LED/72W/TYPE V	POLE (20FT): SCL STOCK NO. 014272 VALMONT INDUSTRIES, INC. R-1908-40-60-6-T4-DBL (3)	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
42	5TH PLACE SW	602+34	20.5' RT	**	14'	2	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
43	5TH PLACE SW	602+93	22.5' LT	**	14'	1	LED/72W/TYPE V	SHROUD (14FT POLE): SCL STOCK NO. 014248	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
44	5TH PLACE SW	603+37	20.5' RT	**	14'	1	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
54 ***	5TH AVE SW	707+09	20.5' RT	**	20'	2	LED/72W/TYPE V	POST TOP HEAD: SCL STOCK NO. 014473 ARCHITECTURAL AREA LIGHTING ETOAAL008854-PRMN-T5-LDL-48LED-4K-450MA-RAL9005TX BLACK PHOTOCONTROL HOUSING: SCL STOCK NO. 014474 ARCHITECTURAL AREA LIGHTING ETOAAL008842-PCA-UF-15A-1103-RAL9005TX BLACK (3)	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5752.05 (3)

* STATIONS/OFFSETS ARE APPROXIMATE. CONTRACTOR SHALL CONFIRM ANY ADJUSTMENTS WITH ALL TRADES AND ENGINEER PRIOR TO IMPLEMENTING.
** TO BE NUMBERED AT THE TIME OF CONSTRUCTION.
*** 20' POLE PROVIDED BY KCHA. SHROUD AND POST TOP HEAD PROVIDED BY CONTRACTOR.

LEGEND

(# = POLE #) (1)	STREET LIGHT & FOUNDATION. SEE STREET LIGHT SCHEDULE THIS SHEET FOR ADDITIONAL INFORMATION
▭	HANDHOLE WITH ANTI SLIP LOCKING LID. (SEE SCL CONSTRUCTION STANDARD 1716.07) PROVIDE 1" TACK WELDS AT BOTH ENDS OF THE J-BOX LID. SEE SHEETS E-12 THRU E-15 FOR ADDITIONAL INFORMATION
(#)	SEE ELECTRICAL NOTES, SHEETS E-12 THRU E-15
(#)	SEE WIRING SCHEDULE, SHEETS E-12 THRU E-15
——— – ———	UNDERGROUND CONDUIT & WIRE. (SEE ELECTRICAL NOTES AND WIRING SCHEDULE), SHEETS E-12 THRU E-15

N

0 10 20 40

1 inch = 20 ft. HORZ

NO.	DATE	BY	CHD.	APPR.	REVISION
3	5/18/2020				ADDENDUM #3

DRAWN BY DPH | DESIGNED BY DPH
CHECKED BY DPH | APPROVED BY JCM
DATE MAY 21, 2020
J O B No. : 180803

811 Call 811 two business days before you dig

S C A L E: AS NOTED

TRES WEST ENGINEERS, INC.
2702 SOUTH 42nd ST #301
TACOMA, WA 98409-7315
TEL (253) 472-3300
www.treswest.com

Greenbridge

King County Housing Authority

TANYA COLBY MICHAK — STATE OF WASHINGTON — 52226 — REGISTERED PROFESSIONAL ENGINEER
5/21/2020

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

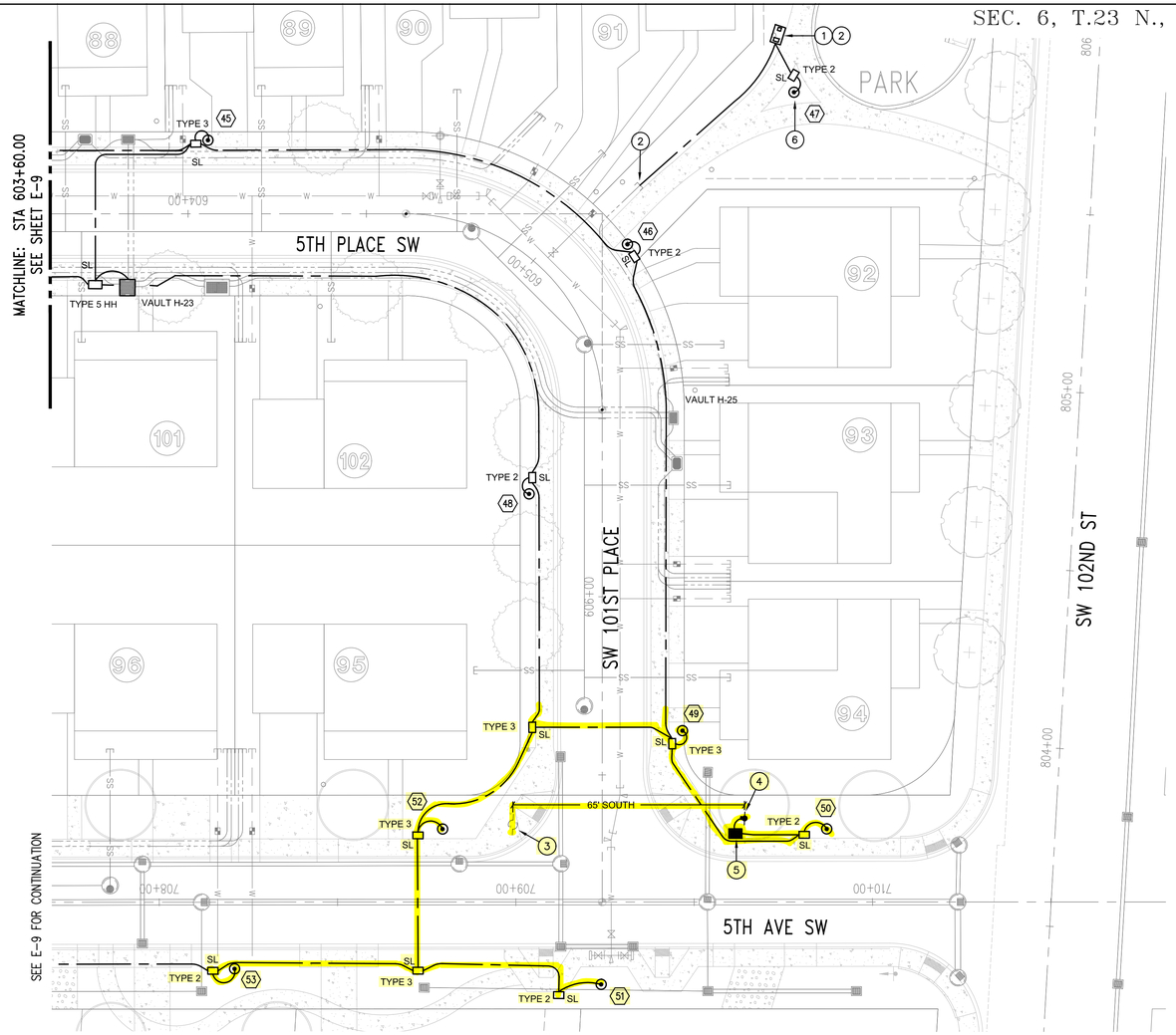
GREENBRIDGE DIVISION 8

PEDESTRIAN LIGHTING PLAN

SHEET E-9

P:\Proj2018\180803 Greenbridge - Division 8\Drawings\01 Working Drawings\180803_E-9 (SW 101ST PL & 5TH PL SW).dwg
Jun 02, 2020 - 7:17am dph

SEC. 6, T.23 N., R.4E., W.M.





KEY MAP
NTS

PLAN NOTES

1. PROVIDE LIGHTING PARK SERVICE CABINET AND FOUNDATION PAD. MILBANK # CP3B11115A22 OR APPROVED EQUAL. SEE PARK SERVICE CABINET ONELINE DIAGRAM 3 ON SHEET E-1 AND PADMOUNT PARK SERVICE CABINET DETAIL 4 ON SHEET E-1 FOR ADDITIONAL INFORMATION AND REQUIREMENTS. COORDINATE ALL REQUIREMENTS AND CONNECTIONS WITH SEATTLE CITY LIGHT. PARK SERVICE CABINET OWNED AND MAINTAINED BY KCHA. CONFIRM LOCATION OF PARK SERVICE CABINET PRIOR TO ROUGH-IN. COORDINATE WITH KCHA FOR ADDITIONAL REQUIRED CONNECTIONS TO PARK SERVICE CABINET; RECEPTACLES, IRRIGATION CONTROLLER, ETC.
2. CONTRACTOR TO ROUTE (1) 3" CONDUIT FROM PARK SERVICE CABINET AND INTERCEPT 3" CONDUIT AT STUBBED LOCATION AS SHOWN FOR CONNECTION OF METERED PARK SERVICE CABINET. SEE SHEET E-10 FOR LOCATION OF H-25 VAULT, SERVICE POINT FOR PARK SERVICE CABINET. COORDINATE ALL REQUIREMENTS AND CONNECTIONS WITH SEATTLE CITY LIGHT.
3. EXISTING UTILITY POWER POLE. SCL TO RELOCATE 12' NORTH OF CURRENT LOCATION TO FACILITATE CONSTRUCTION. SEE PLAN NOTE 4.
4. LOCATION OF RELOCATED POWER POLE. SEE SHEET E-14 FOR ADDITIONAL INFORMATION.
5. CONTRACTOR TO PROVIDE AND INSTALL TYPE 3 HH FOR TEMPORARY SERVICE TO PEDESTRIAN LIGHTS. SEE SHEET E-14 FOR ADDITIONAL INFORMATION.
6. PRIVATELY OWNED AND MAINTAINED PEDESTRIAN LIGHT AND ASSOCIATED INFRASTRUCTURE.

GENERAL NOTES

1. SEE THIS SHEET AND SHEET E-1 FOR STREET LIGHTING GENERAL NOTES.
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N

0 10 20 40
1 inch = 20 ft. HORZ

STREET LIGHT SCHEDULE

STREET LIGHT NO.	LOCATION	PROPOSED STATION *	OFFSET	POLE ID NO. **	MOUNTING HEIGHT	CIRCUIT	TYPE/WATT/DIST.	LUMINAIRE TYPE	BASE	FOUNDATION	COMMENTS
45	5TH PLACE SW	604+04	22.5' LT	**	14'	2	LED/72W/TYPE V	POLE (14FT): SCL STOCK NO. 013425 LUMEC APR-4-F-001-14-BK-TX	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
46	5TH PLACE SW	605+12	22.5' LT	**	14'	1	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
47	PARK	N/A	N/A	**	14'	PARK	LED/72W/TYPE V	POLE (20FT): SCL STOCK NO. 014272 VALMONT INDUSTRIES, INC. R-1908-40-60-6-T4-DBL (3)	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
48	SW 101ST PLACE	605+70	20.5' RT	**	14'	2	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
49	SW 101ST PLACE	606+38	22.5' LT	**	14'	2	LED/72W/TYPE V	SHROUD (14FT POLE): SCL STOCK NO. 014248	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
50	5TH AVE SW	709+87	20.5' LT	**	14'	2	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
51 ***	5TH AVE SW	709+31	23.0' RT	**	20'	2	LED/72W/TYPE V	POST TOP HEAD: SCL STOCK NO. 014473 ARCHITECTURAL AREA LIGHTING ETOAAL008854-PRMN-T5-LDL-48LED-4K-450MA-RAL9005TX BLACK	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5752.05
52	5TH AVE SW	708+79	20.5' LT	**	14'	2	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
53 ***	5TH AVE SW	708+21	18.5' RT	**	20'	1	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5752.05
								PHOTOCONTROL HOUSING: SCL STOCK NO. 014474 ARCHITECTURAL AREA LIGHTING ETOAAL008842-PCA-UF-15A-1103-RAL9005TX BLACK (3)			(3)

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** TO BE NUMBERED AT THE TIME OF CONSTRUCTION.
*** 20' POLE PROVIDED BY KCHA. SHROUD AND POST TOP HEAD PROVIDED BY CONTRACTOR.

LEGEND

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▭	HANDHOLE WITH ANTI SLIP LOCKING LID. (SEE SCL CONSTRUCTION STANDARD 1716.07) PROVIDE 1" TACK WELDS AT BOTH ENDS OF THE J-BOX LID. SEE SHEETS E-12 THRU E-15 FOR ADDITIONAL INFORMATION
(#)	SEE ELECTRICAL NOTES, SHEETS E-12 THRU E-15
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——— – ———	UNDERGROUND CONDUIT & WIRE. (SEE ELECTRICAL NOTES AND WIRING SCHEDULE), SHEETS E-12 THRU E-15

NO.	DATE	BY	CHD.	APPR.	REVISION
3	5/18/2020				ADDENDUM #3

DRAWN BY DPH | DESIGNED BY DPH
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J O B No. : 180803
S C A L E: AS NOTED

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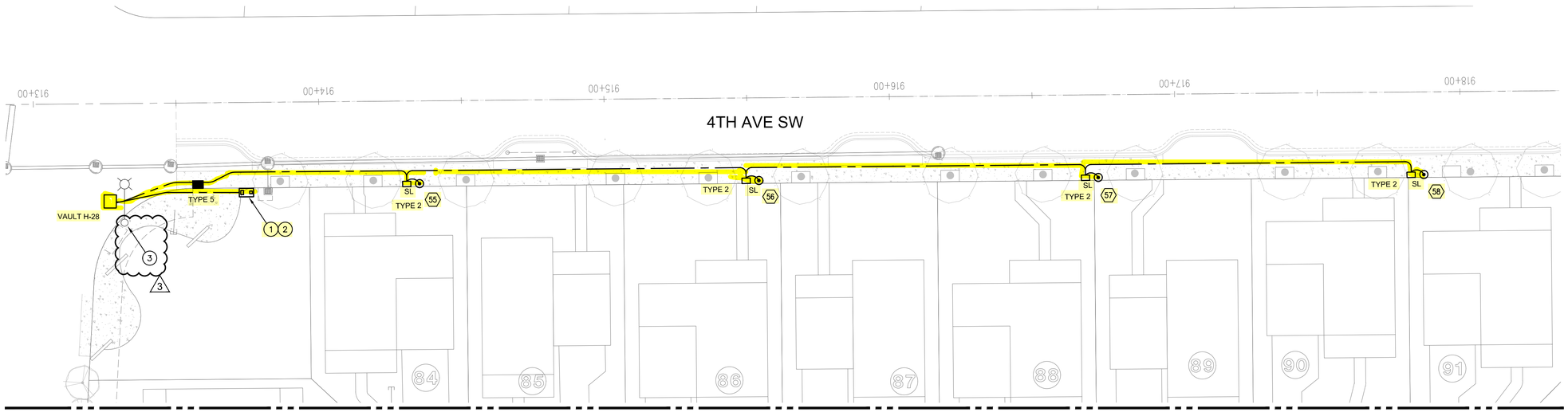
JASON COLBY MCGUNK — STATE OF WASHINGTON — 32226 — REGISTERED PROFESSIONAL ENGINEER — 5/21/2020

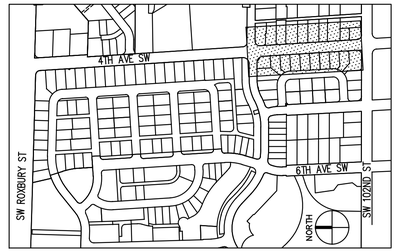
KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
PEDESTRIAN LIGHTING PLAN

SHEET E-10

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SEC. 6, T.23 N., R.4E., W.M.





KEY MAP
NTS

PLAN NOTES

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2. CONTRACTOR TO ROUTE (1) 3" CONDUIT TO SCL VAULT H-28 FOR CONNECTION OF METERED PARK SERVICE CABINET. SEE SHEET E-11 FOR LOCATION OF H-28 VAULT. COORDINATE ALL REQUIREMENTS AND CONNECTIONS WITH SEATTLE CITY LIGHT.
3. EXISTING STREET LIGHT TO REMAIN AND BE PROTECTED IN PLACE. ANY CHANGES TO EXISTING GRADE MAY REQUIRE ADJUSTMENTS TO THE STREET LIGHT AT CONTRACTORS EXPENSE.

GENERAL NOTES

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STREET LIGHT SCHEDULE

STREET LIGHT NO.	LOCATION	PROPOSED STATION *	OFFSET	POLE ID NO. **	MOUNTING HEIGHT	CIRCUIT	TYPE/WATT/DIST.	LUMINAIRE TYPE	BASE	FOUNDATION	COMMENTS
(55) ***	4TH AVE SW	914+31	29' RT	**	20'	2	LED/35W/TYPE V	POLE (20FT): SCL STOCK NO. 014272 VALMONT INDUSTRIES, INC. R-1908-40-60-6-T4-DBL	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.15 AND 5752.05
(56) ***	4TH AVE SW	915+50	29' RT	**	20'	1	LED/35W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.15 AND 5752.05
(57) ***	4TH AVE SW	916+69	29' RT	**	20'	2	LED/35W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.15 AND 5752.05
(58) ***	4TH AVE SW	917+83	29' RT	**	20'	1	LED/35W/TYPE V	POST TOP HEAD: SCL STOCK NO. 014358 PHILIPS LUMEC [MPTC-021]-35W-32LED-3K-G2-LE5-UNV-DMG-[FAWS-043]-PH8-RCD7-BKTX	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.15 AND 5752.05

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LEGEND

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N

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1 inch = 20 ft. HORZ

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JANICE COLBY MENEFEE — STATE OF WASHINGTON — 52226 — REGISTERED PROFESSIONAL ENGINEER — 5/21/2020

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WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
PEDESTRIAN LIGHTING PLAN

SHEET
E-11

P:\Proj2018\180803 Greenbridge - Division 8\Drawings\01 Working Drawings\180803_E-11 (4TH AVE SW).dwg
Jun 02, 2020 - 7:20am dph

VOLTAGE DROP CALCULATION

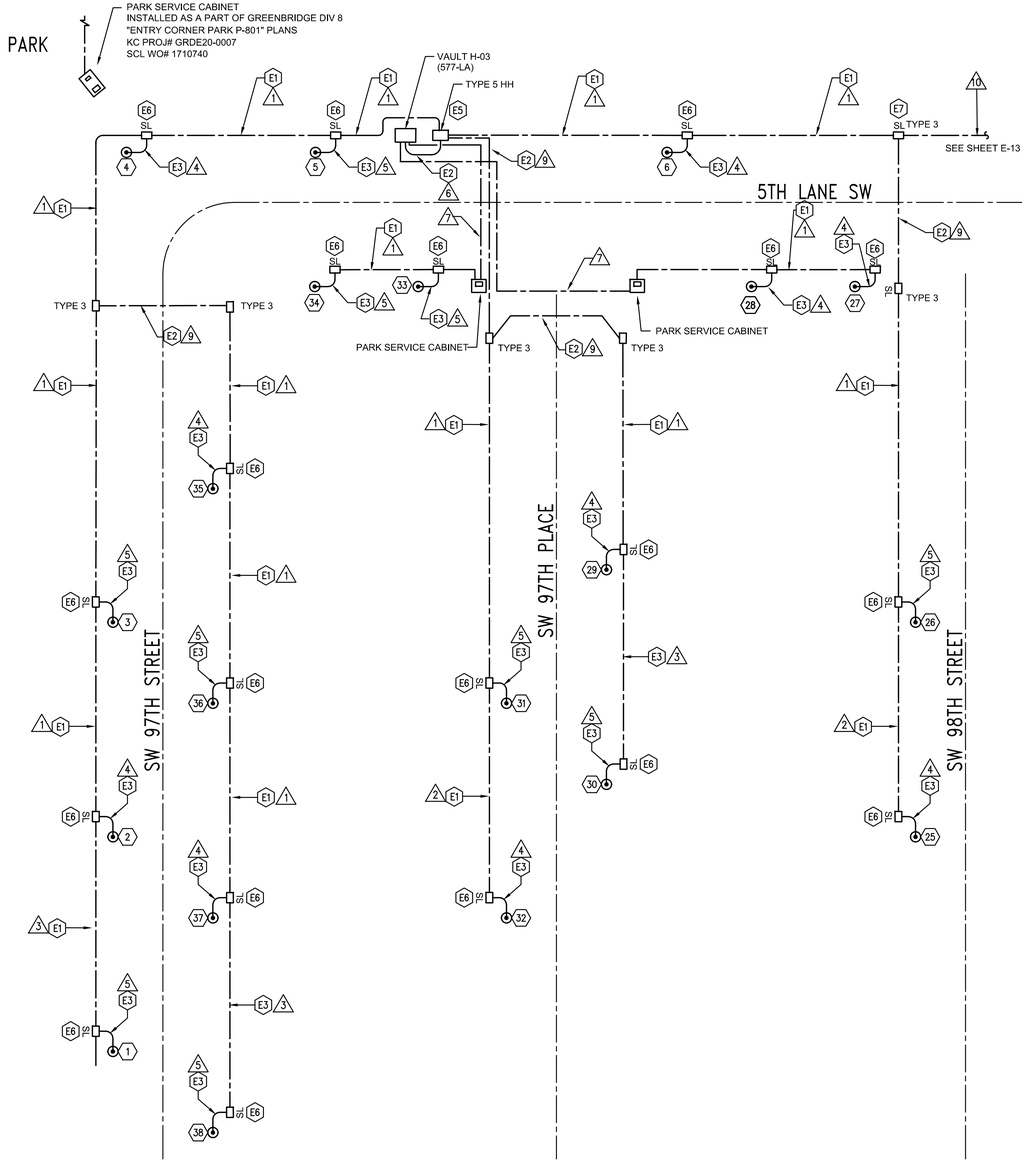
POLE AMPACITY		AMPERES @ 120 VOLTS			
72W LED FIXTURE		0.60			
Conductor Loss Factors (80% pf, CU, Non-magnetic Conduit)					
Wire Size	8	6	4	3	2
Factor	0.00131	0.000845	0.000553	0.000456	0.000358
SELECTION		**(Lines 1&2)**			

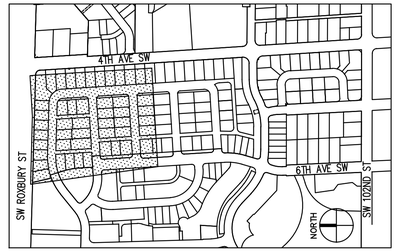
*Voltage Drop=Distance X Amperes x Conductor Loss Factor

RUN NO.	DISTANCE (FEET)	CURRENT (AMPERES)	VOLTS DROP*	
LINE 1				
Pole #4	200	0.15	0.03	
pole #2	300	0.75	0.19	
pole #36	260	0.60	0.13	
pole #38	300	1.20	0.30	
pole #31	270	0.60	0.14	
pole #29	110	0.60	0.06	
pole #6	110	0.60	0.06	
pole #25	230	1.20	0.23	
TOTAL	**1780**		**1.13**	**0.94% @120 VOLTS**
LINE 2				
pole #5	75	0.60	0.04	
pole #3	100	0.60	0.05	
pole #1	300	1.20	0.30	
pole #37	275	1.20	0.28	
pole #32	275	0.60	0.14	
pole #30	225	0.60	0.11	
pole #26	175	0.60	0.09	
TOTAL	**1425**		**1.01**	**0.85% @120 VOLTS**

LOAD CALCULATION

LINES	# OF POLES	KVA	AMPERES
1	8	0.58	4.80
2	7	0.50	4.20





KEY MAP
NTS

ELECTRICAL NOTES

E1 (2)-2" SCH 80 PVC SL ECD AT 24" DEPTH BENEATH SIDEWALKS.

E2 (2)-3" SCH 80 PVC SL ECD AT 36" DEPTH BENEATH CROSSINGS.

E3 (1)-2" SCH 80 PVC SL ECD AT 24" DEPTH BETWEEN HANDHOLE AND POLE FOUNDATION.

E4 (1)-3" SCH 80 PVC SL ECD AT 24" DEPTH BETWEEN SCL DISTRIBUTION TO HANDHOLE.

E5 TYPE 5HH (24"x36"x38") HANDHOLE WITH 6" MIN THICKNESS MINERAL AGGREGATE FILL AND 8' GROUND ROD PER COS STANDARD 550a OR SCL CONSTRUCTION STANDARD 1716.07. BOND GROUND TO NEUTRAL. FUSE SYSTEM L1 & L2 AT 30A. "SL" DESIGNATION INDICATES STREET LIGHT HANDHOLE.

E6 TYPE 2 (17"x28"x12") HANDHOLE WITH 6" MIN THICKNESS MINERAL AGGREGATE FILL AND 8' GROUND ROD PER COS STANDARD 550a OR SCL CONSTRUCTION STANDARD 1716.07. "SL" DESIGNATION INDICATES STREET LIGHT HANDHOLE.

E7 TYPE 3 (24"x36"x18") HANDHOLE WITH 6" MIN THICKNESS MINERAL AGGREGATE FILL AND 8' GROUND ROD PER COS STANDARD 550a OR SCL CONSTRUCTION STANDARD 1716.07. "SL" DESIGNATION INDICATES STREET LIGHT HANDHOLE.

WIRING SCHEDULE

1. 2-2" C (1 SPARE) 4-#6 (L1,L2,N,G)
2. 2-2" C (1 SPARE) 3-#6 (L1,N,G)
3. 2-2" C (1 SPARE) 3-#6 (L2,N,G)
4. 1-2" C 1-#12TX (L1,N,G) 1-#6 (G)
5. 1-2" C 1-#12TX (L2,N,G) 1-#6 (G)
6. 2-3" C 3-#2 (L1,L2,N)
7. 1-3" C 3-#2
8. 2-3" C
9. 2-3" C 4-#6 (L1,L2,N,G)
10. 2-2" C (SPARE)

N

0 15 30 60
1 inch = 30 ft. HORZ

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Jun 02, 2020 - 7:26am dph

NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY DPH | DESIGNED BY DPH
CHECKED BY DPH | APPROVED BY JCM
DATE MAY 26, 2020
J O B No. : 180803

811 Call 811 two business days before you dig

S C A L E: AS NOTED

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Greenbridge
King County Housing Authority

JANET COLBY MORRIS — STATE OF WASHINGTON — 52926 — REGISTERED PROFESSIONAL ENGINEER — 5/26/2020

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
ONE-LINE WIRING DIAGRAM (VAULT H-03)

SHEET E-12

VOLTAGE DROP CALCULATION

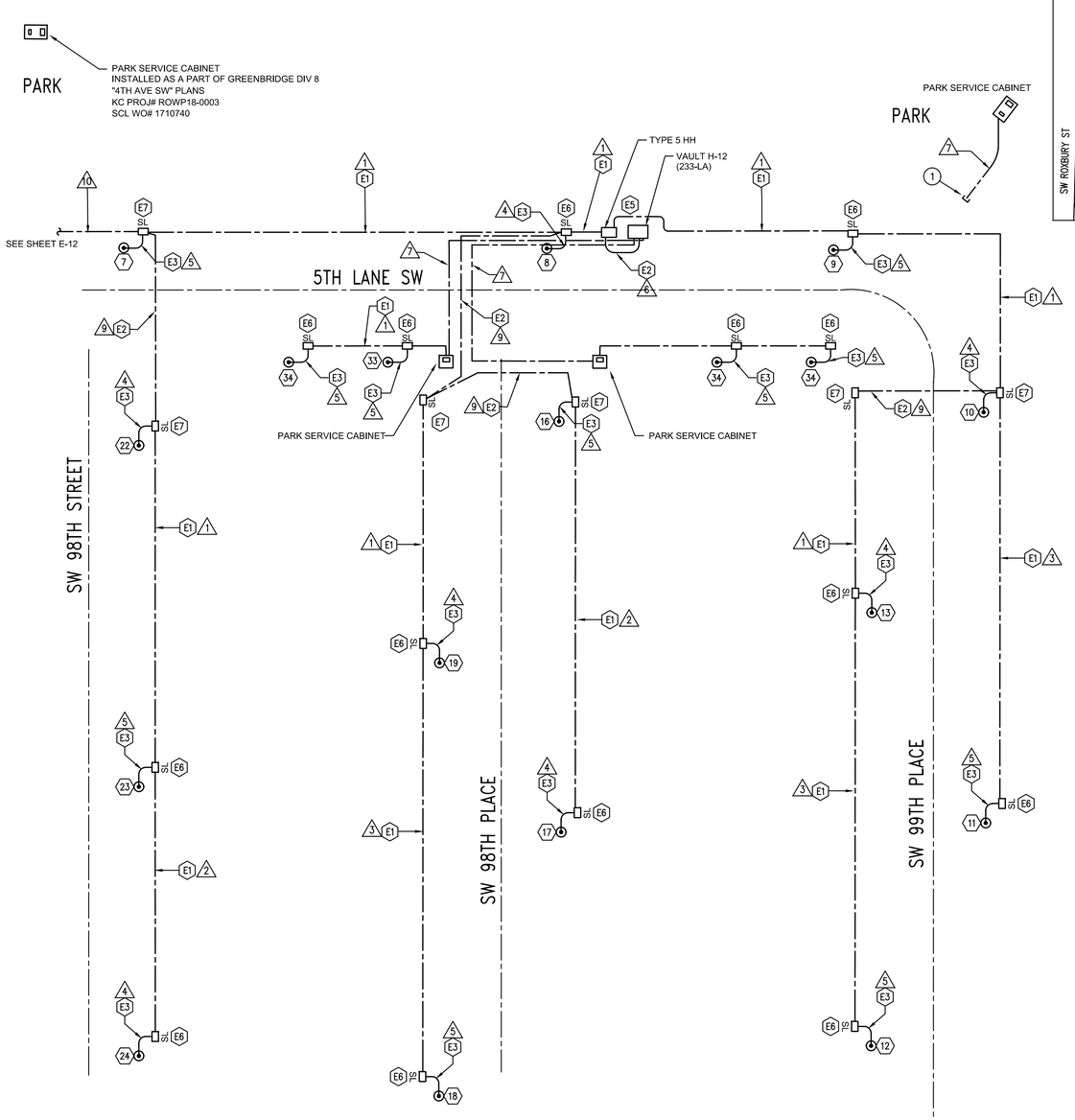
POLE AMPACITY		AMPERES @ 120 VOLTS			
72W LED FIXTURE		0.60			
Conductor Loss Factors (80% pf, CU, Non-magnetic Conduit)					
Wire Size	8	6	4	3	2
Factor	0.00131	0.000845	0.000553	0.000456	0.000358
SELECTION		**(Lines 1&2)**			

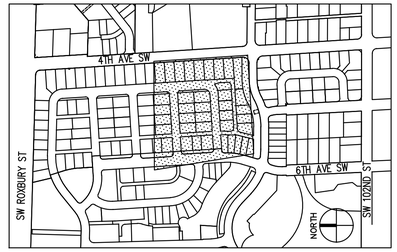
*Voltage Drop=Distance X Amperes x Conductor Loss Factor

RUN NO.	DISTANCE (FEET)	CURRENT (AMPERES)	VOLTS DROP*	
LINE 1				
pole #7	220	0.60	0.11	
pole #23	275	1.20	0.28	
pole #16	120	0.60	0.06	
pole #18	325	1.20	0.33	
pole #9	175	0.60	0.09	
pole #11	325	1.20	0.33	
pole #13	110	1.20	0.11	
TOTAL	**1550**		**1.31**	**1.09% @120 VOLTS**
LINE 2				
pole #8	50	0.60	0.03	
pole #22	325	0.60	0.16	
pole #24	300	1.20	0.30	
pole #19	300	0.60	0.15	
pole #17	300	0.60	0.15	
pole #10	300	0.60	0.15	
pole #12	325	1.20	0.33	
TOTAL	**1900**		**1.28**	**1.07% @120 VOLTS**

LOAD CALCULATION

LINES	# OF POLES	KVA	AMPERES
1	7	0.50	4.20
2	7	0.50	4.20





KEY MAP
NTS

ELECTRICAL NOTES

- E1 (2)-2" SCH 80 PVC SL ECD AT 24" DEPTH BENEATH SIDEWALKS.
- E2 (2)-3" SCH 80 PVC SL ECD AT 36" DEPTH BENEATH CROSSINGS.
- E3 (1)-2" SCH 80 PVC SL ECD AT 24" DEPTH BETWEEN HANDHOLE AND POLE FOUNDATION.
- E4 (1)-3" SCH 80 PVC SL ECD AT 24" DEPTH BETWEEN SCL DISTRIBUTION TO HANDHOLE.
- E5 TYPE 5HH (24"x36"x38") HANDHOLE WITH 6" MIN THICKNESS MINERAL AGGREGATE FILL AND 8' GROUND ROD PER COS STANDARD 550a OR SCL CONSTRUCTION STANDARD 1716.07. BOND GROUND TO NEUTRAL. FUSE SYSTEM L1 & L2 AT 30A. "SL" DESIGNATION INDICATES STREET LIGHT HANDHOLE.
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WIRING SCHEDULE

1. 2-2" C (1 SPARE) 4-#6 (L1,L2,N,G)
2. 2-2" C (1 SPARE) 3-#6 (L1,N,G)
3. 2-2" C (1 SPARE) 3-#6 (L2,N,G)
4. 1-2" C 1-#12TX (L1,N,G) 1-#6 (G)
5. 1-2" C 1-#12TX (L2,N,G) 1-#6 (G)
6. 2-3" C 3-#2 (L1,L2,N)
7. 1-3" C 3-#2
8. 2-3" C
9. 2-3" C 4-#6 (L1,L2,N,G)
10. 2-2" C (SPARE)

PLAN NOTES

(1) INTERCEPT 3" CONDUIT ROUTED TO VAULT H-16. SEE SHEET E-5.

0 15 30 60
1 inch = 30 ft. HORZ

NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY DPH | DESIGNED BY DPH
CHECKED BY DPH | APPROVED BY JCM
DATE MAY 26, 2020
J O B No. : 180803
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JASON COLDY MICHAEL STATE OF WASHINGTON 52226 REGISTERED PROFESSIONAL ENGINEER 5/26/2020

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
ONE LINE WIRING DIAGRAM (VAULT H-12)

SHEET E-13

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VOLTAGE DROP CALCULATION

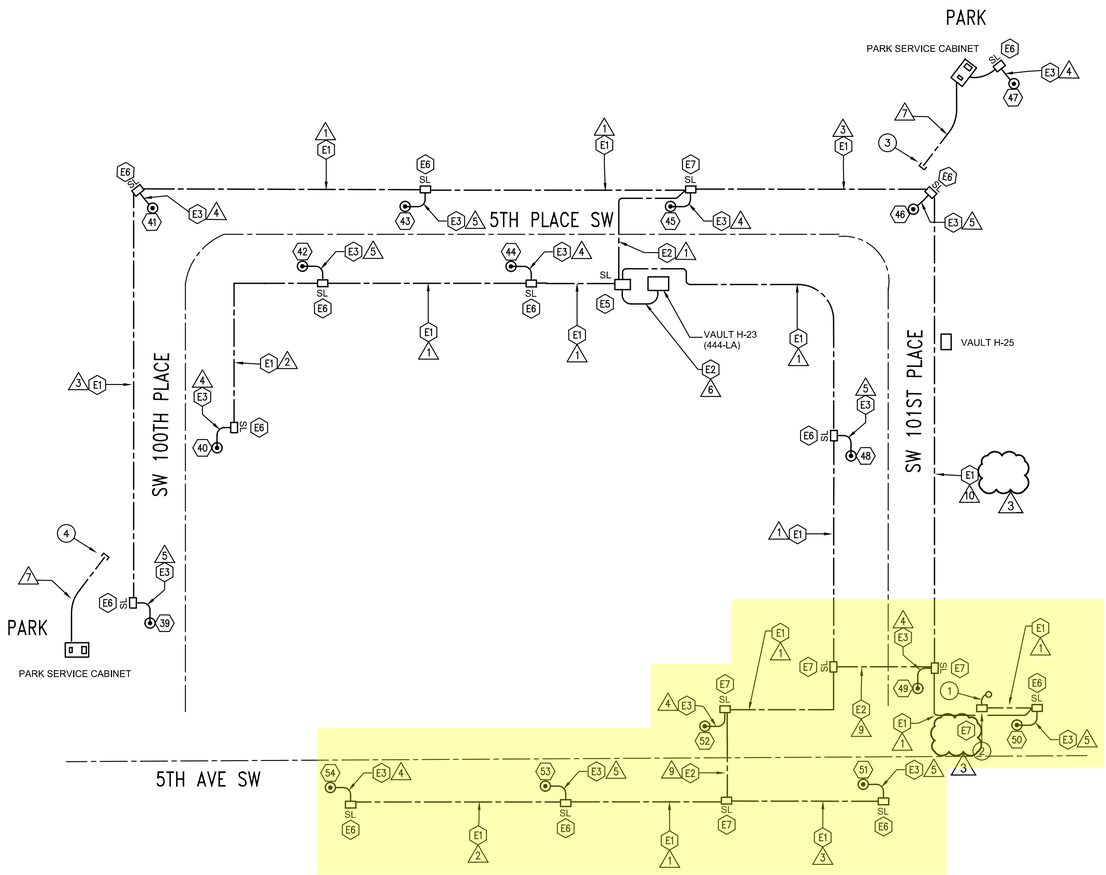
POLE AMPACITY		AMPERES @ 120 VOLTS			
72W LED FIXTURE		0.60			
Conductor Loss Factors (80% pf, CU, Non-magnetic Conduit)					
Wire Size	8	6	4	3	2
Factor	0.00131	0.000845	0.000553	0.000456	0.000358
SELECTION		**(Lines 1&2)**			

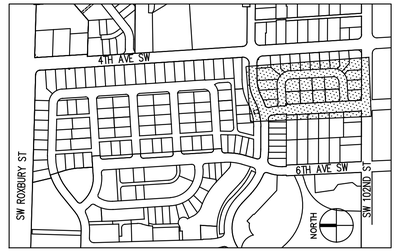
*Voltage Drop=Distance X Amperes x Conductor Loss Factor

RUN NO.	DISTANCE (FEET)	CURRENT (AMPERES)	VOLTS DROP*	
LINE 1				
Pole #53	75	0.60	0.04	
Pole #46	200	0.60	0.10	
Pole #43	275	0.60	0.14	
Pole #39	300	1.20	0.30	
Pole #44	50	0.60	0.03	
Pole #40	225	1.20	0.23	
TOTAL	**1125**		**0.84**	
				0.70% @120 VOLTS
LINE 2				
Pole #48	200	0.60	0.10	
Pole #52	150	0.60	0.08	
Pole #51	100	1.20	0.10	
Pole #54	250	1.20	0.25	
Pole #49	150	0.60	0.08	
Pole #50	60	1.20	0.06	
Pole #45	280	0.60	0.14	
Pole #41	250	0.60	0.13	
Pole #42	150	1.20	0.15	
TOTAL	**1590**		**1.09**	**0.91% @120 VOLTS**

LOAD CALCULATION

LINES	# OF POLES	KVA	AMPERES
1	6	0.43	3.60
2	9	0.65	5.40





KEY MAP
NTS

ELECTRICAL NOTES

- E1 (2)-2" SCH 80 PVC SL ECD AT 24" DEPTH BENEATH SIDEWALKS.
- E2 (2)-3" SCH 80 PVC SL ECD AT 36" DEPTH BENEATH CROSSINGS.
- E3 (1)-2" SCH 80 PVC SL ECD AT 24" DEPTH BETWEEN HANDHOLE AND POLE FOUNDATION.
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- E5 TYPE 5HH (24"x36"x38") HANDHOLE WITH 6" MIN THICKNESS MINERAL AGGREGATE FILL AND 8' GROUND ROD PER COS STANDARD 550a OR SCL CONSTRUCTION STANDARD 1716.07. BOND GROUND TO NEUTRAL. FUSE SYSTEM L1 & L2 AT 30A. "SL" DESIGNATION INDICATES STREET LIGHT HANDHOLE.
- E6 TYPE 2 (17"x28"x12") HANDHOLE WITH 6" MIN THICKNESS MINERAL AGGREGATE FILL AND 8' GROUND ROD PER COS STANDARD 550a OR SCL CONSTRUCTION STANDARD 1716.07. "SL" DESIGNATION INDICATES STREET LIGHT HANDHOLE.
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WIRING SCHEDULE

1. 2-2" C (1 SPARE) 4-#6 (L1,L2,N,G)
2. 2-2" C (1 SPARE) 3-#6 (L1,N,G)
3. 2-2" C (1 SPARE) 3-#6 (L2,N,G)
4. 1-2" C 1-#12TX (L1,N,G) 1-#6 (G)
5. 1-2" C 1-#12TX (L2,N,G) 1-#6 (G)
6. 2-3" C 3-#2 (L1,L2,N)
7. 1-3" C 3-#2
8. 2-3" C
9. 2-3" C 4-#6 (L1,L2,N,G)
10. 2-2" C (SPARE)

PLAN NOTES

3 (1) LOCATION OF RELOCATED POWER POLE. CONTRACTOR PROVIDE AND INSTALL (2) 2" CONDUITS WITH 3-#2(L1, L2, N) TO TEMPORARY HH PER SCL CONSTRUCTION STANDARD 1714.50, FIGURE 5.2. SCL TO PROVIDE FINAL CONNECTION ON POLE.

(2) CONTRACTOR TO PROVIDE AND INSTALL TYPE 3 HH FOR TEMPORARY SERVICE TO PEDESTRIAN LIGHTS. CONTRACTOR CAN REMOVE TEMPORARY HH ONCE LIGHTS ARE COMMISSIONED ON FINAL SERVICE POINT, H-23.

(3) INTERCEPT 3" CONDUIT ROUTED TO VAULT H-25. SEE SHEET E-10.

(4) INTERCEPT 3" CONDUIT ROUTED TO VAULT H-21. SEE SHEET E-9.

N

0 15 30 60
1 inch = 30 ft. HORZ

NO.	DATE	BY	CHD.	APPR.	REVISION
3	5/18/2020				ADDENDUM #3

DRAWN BY DPH | DESIGNED BY DPH
CHECKED BY DPH | APPROVED BY JCM
DATE MAY 21, 2020
J O B No. : 180803

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Greenbridge
King County Housing Authority

JANET COLBY MORRIS — STATE OF WASHINGTON — 22926 — REGISTERED PROFESSIONAL ENGINEER — 5/21/2020

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
ONE LINE WIRING DIAGRAM (VAULT H-23)

SHEET E-14

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VOLTAGE DROP CALCULATION

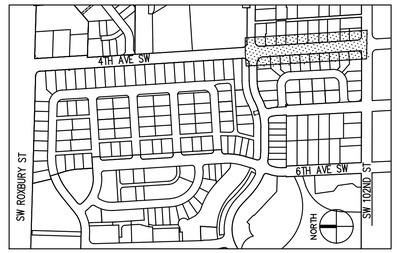
POLE AMPACITY		AMPERES @ 120 VOLTS			
35W LED FIXTURE		0.29			
Conductor Loss Factors (80% pf, CU, Non-magnetic Conduit)					
Wire Size	8	6	4	3	2
Factor	0.00131	0.000845	0.000553	0.000456	0.000358
SELECTION		**(Lines 1&2)**			
0.000845					

*Voltage Drop=Distance X Amperes x Conductor Loss Factor

RUN NO.	DISTANCE (FEET)	CURRENT (AMPERES)	VOLTS DROP*	
LINE 1				
Vault H-28 to:				
Pole #56	250	0.29	0.06	
Pole #58	250	0.58	0.12	
TOTAL	**500**		**0.18**	**0.15% @120 VOLTS**
LINE 2				
Vault H-28 to:				
Pole #55	125	0.58	0.06	
Pole #57	250	0.29	0.06	
TOTAL	**375**		**0.12**	**0.10% @120 VOLTS**

LOAD CALCULATION

LINES	# OF POLES	KVA	AMPERES
1	2	0.07	0.58
2	2	0.07	0.58



KEY MAP
NTS

ELECTRICAL NOTES

E1 (2)-2" SCH 80 PVC SL ECD AT 24" DEPTH BENEATH SIDEWALKS.

E2 (2)-3" SCH 80 PVC SL ECD AT 36" DEPTH BENEATH CROSSINGS.

E3 (1)-2" SCH 80 PVC SL ECD AT 24" DEPTH BETWEEN HANDHOLE AND POLE FOUNDATION.

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WIRING SCHEDULE

1 2-2" C (1 SPARE)
4-#6 (L1,L2,N,G)

2 2-2" C (1 SPARE)
3-#6 (L1,N,G)

3 2-2" C (1 SPARE)
3-#6 (L2,N,G)

4 1-2" C
1-#12TX (L1,N,G)
1-#6 (G)

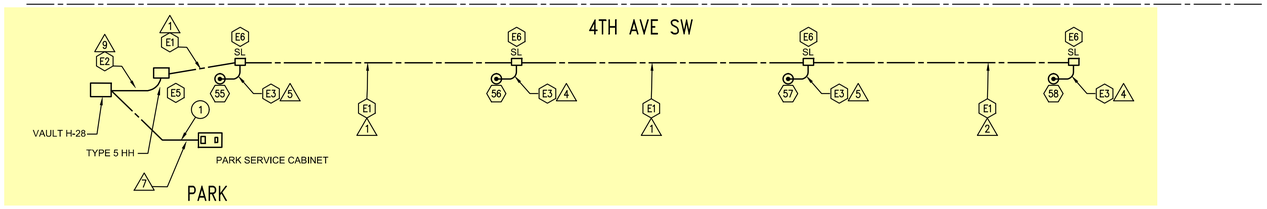
5 1-2" C
1-#12TX (L2,N,G)
1-#6 (G)

6 2-3" C
3-#2 (L1,L2,N)

7 1-3" C
3-#2

8 2-3" C

9 2-3" C
3-#6 (L1, L2, N)



PLAN NOTES

(1) ROUTE 3" CONDUIT TO VAULT H-28. SEE SHEET E-11.

N

0 15 30 60
1 inch = 30 ft. HORZ

NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY DPH | DESIGNED BY DPH
CHECKED BY DPH | APPROVED BY JCM
DATE MAY 26, 2020
JOB No. : 180803
SCALE: AS NOTED

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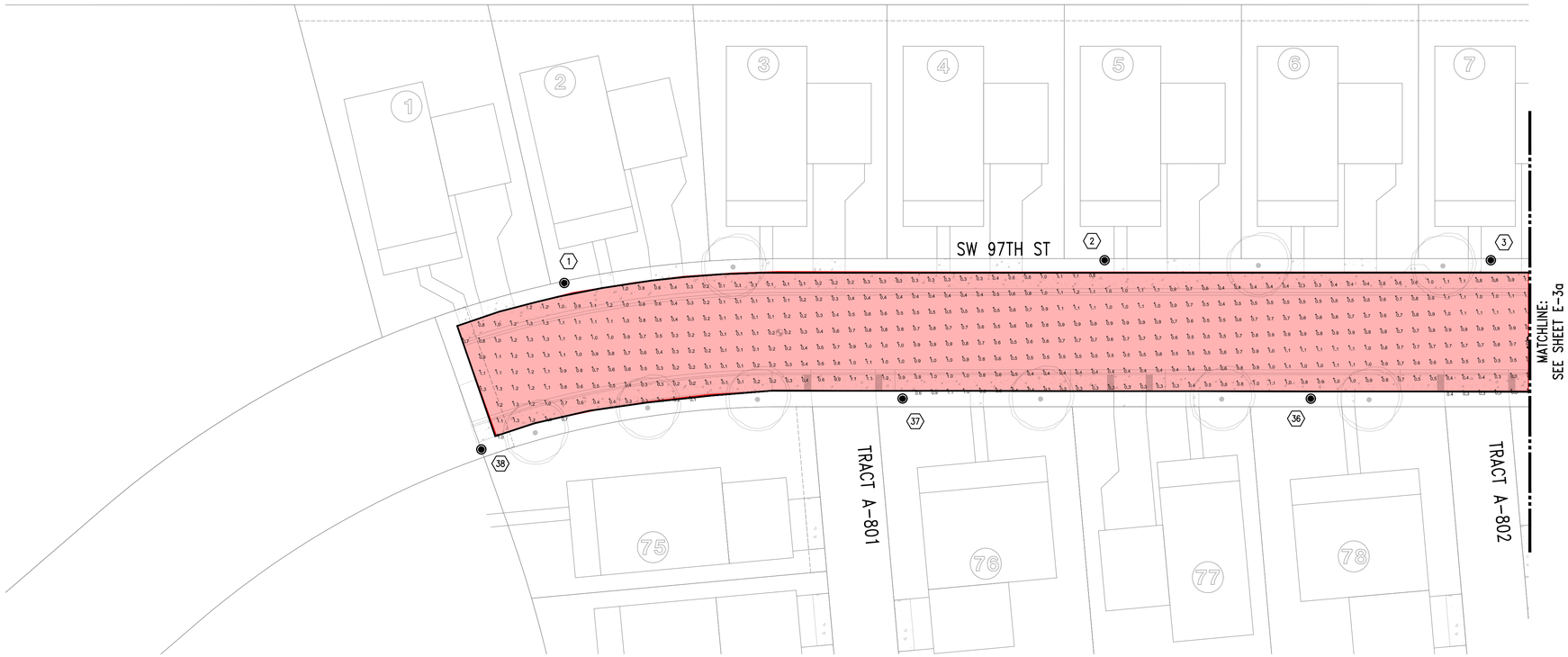
JANICE COLBY MENK — STATE OF WASHINGTON — 52226 — REGISTERED PROFESSIONAL ENGINEER — 5/26/2020

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
ONE LINE WIRING DIAGRAM (VAULT H-28)

SHEET E-15

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Jun 02, 2020 - 7:33am dph

SEC. 6, T.23 N., R.4E., W.M.





KEY MAP
NTS

STREET LIGHT SCHEDULE

STREET LIGHT NO.	LOCATION	PROPOSED STATION *	OFFSET	POLE ID NO. **	MOUNTING HEIGHT	CIRCUIT	TYPE/WATT/DIST.	LUMINAIRE TYPE	BASE	FOUNDATION	COMMENTS
1	SW 97TH ST	101+66	22.5' LT	**	14'	2	LED/72W/TYPE V	POLE (14FT): SCL STOCK NO. 013425 LUMEC APR-4-F-001-14-BK-TX	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
2	SW 97TH ST	103+30	22.5' LT	**	14'	1	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
3	SW 97TH ST	104+50	22.5' LT	**	14'	2	LED/72W/TYPE V	SHROUD (14FT POLE): SCL STOCK NO. 014248	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
36	SW 97TH ST	103+94	20.5' RT	**	14'	1	LED/72W/TYPE V	POST TOP HEAD: SCL STOCK NO. 014473 ARCHITECTURAL AREA LIGHTING ETOAAL008854-PRMN-T5-LDL-48LED-4K-450MA-RAL9005TX	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
37	SW 97TH ST	102+67	20.5' RT	**	14'	2	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
38	SW 97TH ST	101+27	20.5' RT	**	14'	1	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
								PHOTOCONTROL HOUSING: SCL STOCK NO. 014474 ARCHITECTURAL AREA LIGHTING ETOAAL008842-PCA-UF-15A-1103-RAL9005TX BLACK			

* STATIONS/OFFSETS ARE APPROXIMATE. CONTRACTOR SHALL CONFIRM ANY ADJUSTMENTS WITH ALL TRADES AND ENGINEER PRIOR TO IMPLEMENTING.
** TO BE NUMBERED AT THE TIME OF CONSTRUCTION.

LEGEND

(# = POLE #) 1	STREET LIGHT & FOUNDATION. SEE STREET LIGHT SCHEDULE THIS SHEET FOR ADDITIONAL INFORMATION
+ #.#	PHOTOMETRIC CALCULATION POINT

GENERAL NOTES

1. HIGHLIGHTED AREA REPRESENTS CALCULATION AREA.
2. PHOTOMETRIC CALCULATION POINTS ARE LOCATED ON ROADWAYS/SIDEWALKS WHERE SHOWN.
3. A LIGHT LOSS FACTOR OF 0.9 IS INCLUDED IN THE CALCULATION RESULTS.
4. SEE CALCULATION SUMMARY TABLE THIS SHEET FOR ILLUMINANCE VALUES.

CALCULATION SUMMARY

Label	CalcType	Units	Avg	Min	Avg/Min
5th Ave SW_Top	Illuminance	Fc	0.44	0.0	N.A.
5th Lane SW_Top	Illuminance	Fc	0.51	0.1	5.10
5TH PL SW_Top	Illuminance	Fc	0.67	0.1	6.70
SW 100th PL_Top	Illuminance	Fc	0.64	0.0	N.A.
SW 101st Place_Top	Illuminance	Fc	0.77	0.3	2.57
SW 97th PL_Top	Illuminance	Fc	0.59	0.0	N.A.
SW 97the Street_Top	Illuminance	Fc	0.67	0.1	6.70
SW 98th PL_Top	Illuminance	Fc	0.52	0.1	5.20
SW 98th St_Top	Illuminance	Fc	0.65	0.0	N.A.
SW 99th Place_Top	Illuminance	Fc	0.53	0.0	N.A.

N

0 10 20 40
1 inch = 20 ft. HORZ

NO.	DATE	BY	CHD.	APPR.	REVISION

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DATE JUNE 19, 2020
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SCALE: AS NOTED

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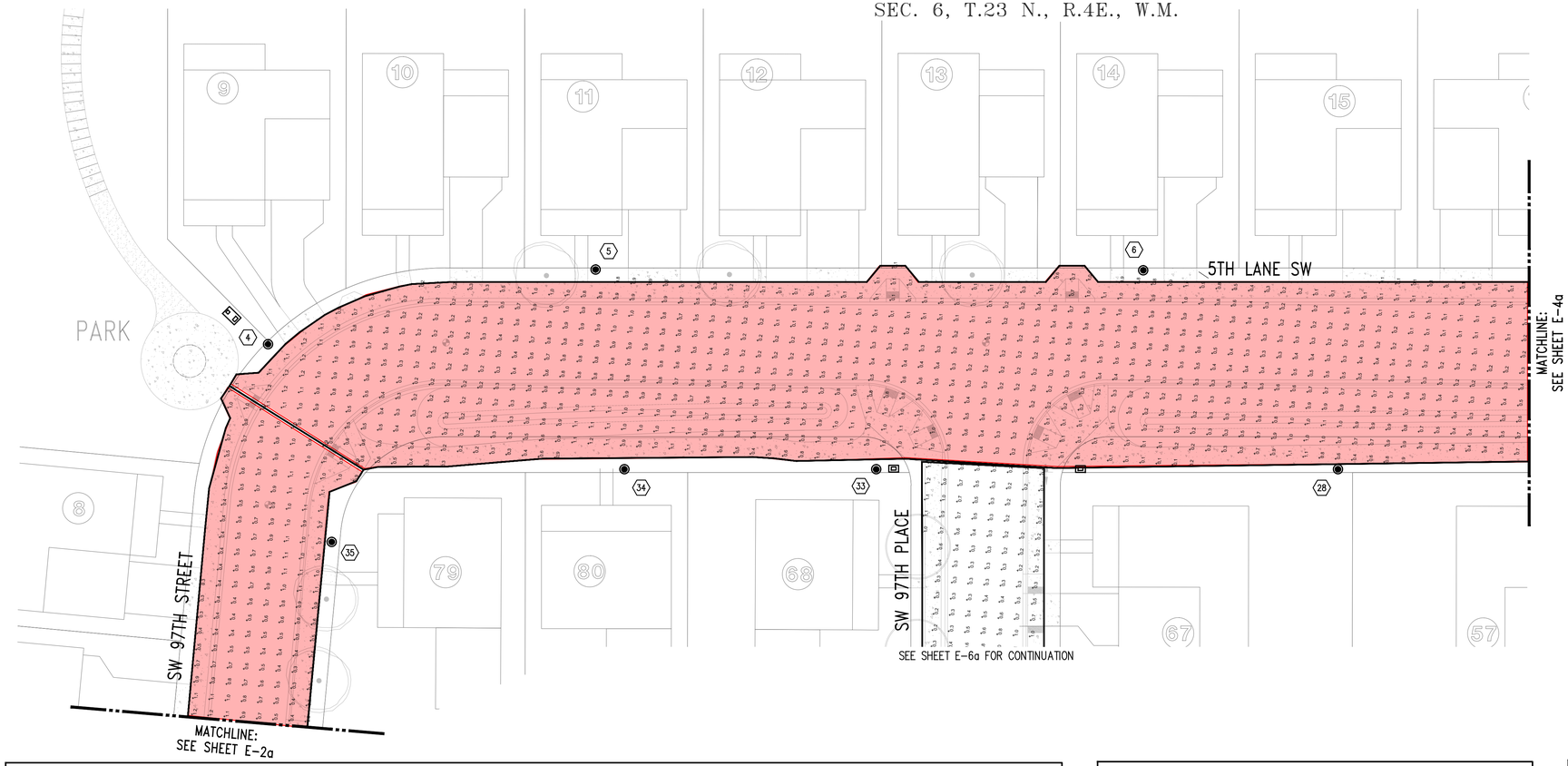
JANSEN COLBY MELNYK — STATE OF WASHINGTON — 52228 — REGISTERED PROFESSIONAL ENGINEER — 6/19/2020

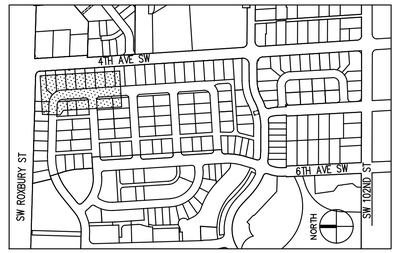
KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
PEDESTRIAN LIGHTING PHOTOMETRICS

SHEET E-2a

P:\Proj2018\180803 Greenbridge - Division 8\Drawings\01 Working Drawings\180803_E-2a (SW 97TH ST) - Photometrics.dwg
Jun 19, 2020 - 9:17am dph

SEC. 6, T.23 N., R.4E., W.M.





KEY MAP
NTS

STREET LIGHT SCHEDULE

STREET LIGHT NO.	LOCATION	PROPOSED STATION *	OFFSET	POLE ID NO. **	MOUNTING HEIGHT	CIRCUIT	TYPE/WATT/DIST.	LUMINAIRE TYPE	BASE	FOUNDATION	COMMENTS
4	5TH LANE SW	105+63	22.5' LT	**	14'	1	LED/72W/TYPE V	POLE (14FT): SCL STOCK NO. 013425 LUMEC APR-4-F-001-BK-TX SHROUD (14FT POLE): SCL STOCK NO. 014248 POST TOP HEAD: SCL STOCK NO. 014473 ARCHITECTURAL AREA LIGHTING ETOAAL008854-PRMN-T5-LDL-48LED-4K-450MA-RAL9005TX PHOTOCONTROL HOUSING: SCL STOCK NO. 014474 ARCHITECTURAL AREA LIGHTING ETOAAL008842-PCA-UF-15A-1103-RAL9005TX BLACK	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
5	5TH LANE SW	106+54	22.5' LT	**	14'	2	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
6	5TH LANE SW	108+10	22.5' LT	**	14'	1	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
28	5TH LANE SW	108+82	39.0' RT	**	14'	PARK	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
33	5TH LANE SW	107+40	39.0' RT	**	14'	PARK	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
34	5TH LANE SW	106+63	39.0' RT	**	14'	PARK	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
35	SW 97TH STREET	105+17	20.5' RT	**	14'	2	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09

* STATIONS/OFFSETS ARE APPROXIMATE. CONTRACTOR SHALL CONFIRM ANY ADJUSTMENTS WITH ALL TRADES AND ENGINEER PRIOR TO IMPLEMENTING.
** TO BE NUMBERED AT THE TIME OF CONSTRUCTION.

LEGEND

(# = POLE #) 1	STREET LIGHT & FOUNDATION. SEE STREET LIGHT SCHEDULE THIS SHEET FOR ADDITIONAL INFORMATION
+ #.#	PHOTOMETRIC CALCULATION POINT

GENERAL NOTES

1. HIGHLIGHTED AREA REPRESENTS CALCULATION AREA.
2. PHOTOMETRIC CALCULATION POINTS ARE LOCATED ON ROADWAYS/SIDEWALKS WHERE SHOWN.
3. A LIGHT LOSS FACTOR OF 0.9 IS INCLUDED IN THE CALCULATION RESULTS.
4. SEE CALCULATION SUMMARY TABLE THIS SHEET FOR ILLUMINANCE VALUES.

CALCULATION SUMMARY

Label	CalcType	Units	Avg	Min	Avg/Min
5th Ave SW_Top	Illuminance	Fc	0.44	0.0	N.A.
5th Lane SW_Top	Illuminance	Fc	0.51	0.1	5.10
5TH PL SW_Top	Illuminance	Fc	0.67	0.1	6.70
SW 100th PL_Top	Illuminance	Fc	0.64	0.0	N.A.
SW 101st Place_Top	Illuminance	Fc	0.77	0.3	2.57
SW 97th PL_Top	Illuminance	Fc	0.59	0.0	N.A.
SW 97the Street_Top	Illuminance	Fc	0.67	0.1	6.70
SW 98th PL_Top	Illuminance	Fc	0.52	0.1	5.20
SW 98th St_Top	Illuminance	Fc	0.65	0.0	N.A.
SW 99th Place_Top	Illuminance	Fc	0.53	0.0	N.A.

N

0 10 20 40
1 inch = 20 ft. HORZ

NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY DPH | DESIGNED BY DPH
CHECKED BY DPH | APPROVED BY JCM
DATE JUNE 19, 2020
J O B No. : 180803
S C A L E : AS NOTED

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King County Housing Authority

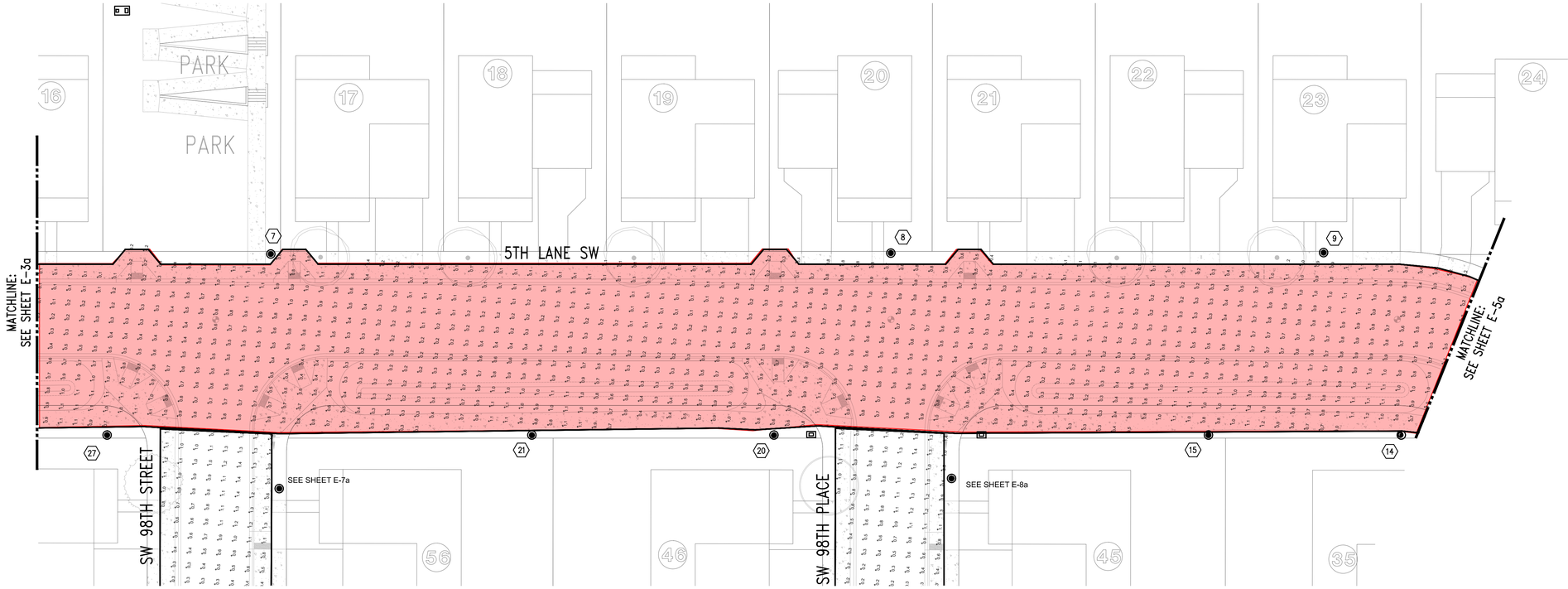
JANET COLBY MCNEIL — STATE OF WASHINGTON — 52926 — REGISTERED PROFESSIONAL ENGINEER — 6/19/2020

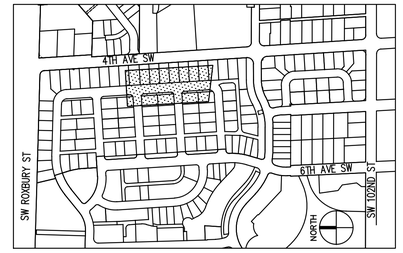
KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
PEDESTRIAN LIGHTING PHOTOMETRICS

SHEET E-3a

P:\Proj2018\180803 Greenbridge - Division 8\Drawings\01 Working Drawings\180803_E-3a (5TH AVE SW) - Photometrics.dwg
Jun 19, 2020 - 9:19am dph

SEC. 6, T.23 N., R.4E., W.M.





KEY MAP
NTS

STREET LIGHT SCHEDULE

STREET LIGHT NO.	LOCATION	PROPOSED STATION *	OFFSET	POLE ID NO. **	MOUNTING HEIGHT	CIRCUIT	TYPE/WATT/DIST.	LUMINAIRE TYPE	BASE	FOUNDATION	COMMENTS
7	5TH LANE SW	110+19	22.5' LT	**	14'	1	LED/72W/TYPE V	POLE (14FT): SCL STOCK NO. 013425 LUMEC APR-4-F-001-14-BK-TX SHROUD (14FT POLE): SCL STOCK NO. 014248 POST TOP HEAD: SCL STOCK NO. 014473 ARCHITECTURAL AREA LIGHTING ETOAAL008854-PRMN-T5-LDL-48LED-4K-450MA-RAL9005TX PHOTOCONTROL HOUSING: SCL STOCK NO. 014474 ARCHITECTURAL AREA LIGHTING ETOAAL008842-PCA-UF-15A-1103-RAL9005TX BLACK	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
8	5TH LANE SW	112+32	22.5' LT	**	14'	2	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
9	5TH LANE SW	113+74	22.5' LT	**	14'	1	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
14	5TH LANE SW	114+03	39.0' RT	**	14'	PARK	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
15	5TH LANE SW	113+35	39.0' RT	**	14'	PARK	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
20	5TH LANE SW	111+88	39.0' RT	**	14'	PARK	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
21	5TH LANE SW	111+07	39.0' RT	**	14'	PARK	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
27	5TH LANE SW	109+63	39.0' RT	**	14'	PARK	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09

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LEGEND

(# = POLE #) 1	STREET LIGHT & FOUNDATION. SEE STREET LIGHT SCHEDULE THIS SHEET FOR ADDITIONAL INFORMATION
+ #.#	PHOTOMETRIC CALCULATION POINT

GENERAL NOTES

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SW 100th PL_Top	Illuminance	Fc	0.64	0.0	N.A.
SW 101st Place_Top	Illuminance	Fc	0.77	0.3	2.57
SW 97th PL_Top	Illuminance	Fc	0.59	0.0	N.A.
SW 97the Street_Top	Illuminance	Fc	0.67	0.1	6.70
SW 98th PL_Top	Illuminance	Fc	0.52	0.1	5.20
SW 98th St_Top	Illuminance	Fc	0.65	0.0	N.A.
SW 99th Place_Top	Illuminance	Fc	0.53	0.0	N.A.

N

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NO.	DATE	BY	CHD.	APPR.	REVISION

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DATE JUNE 19, 2020
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SCALE: AS NOTED

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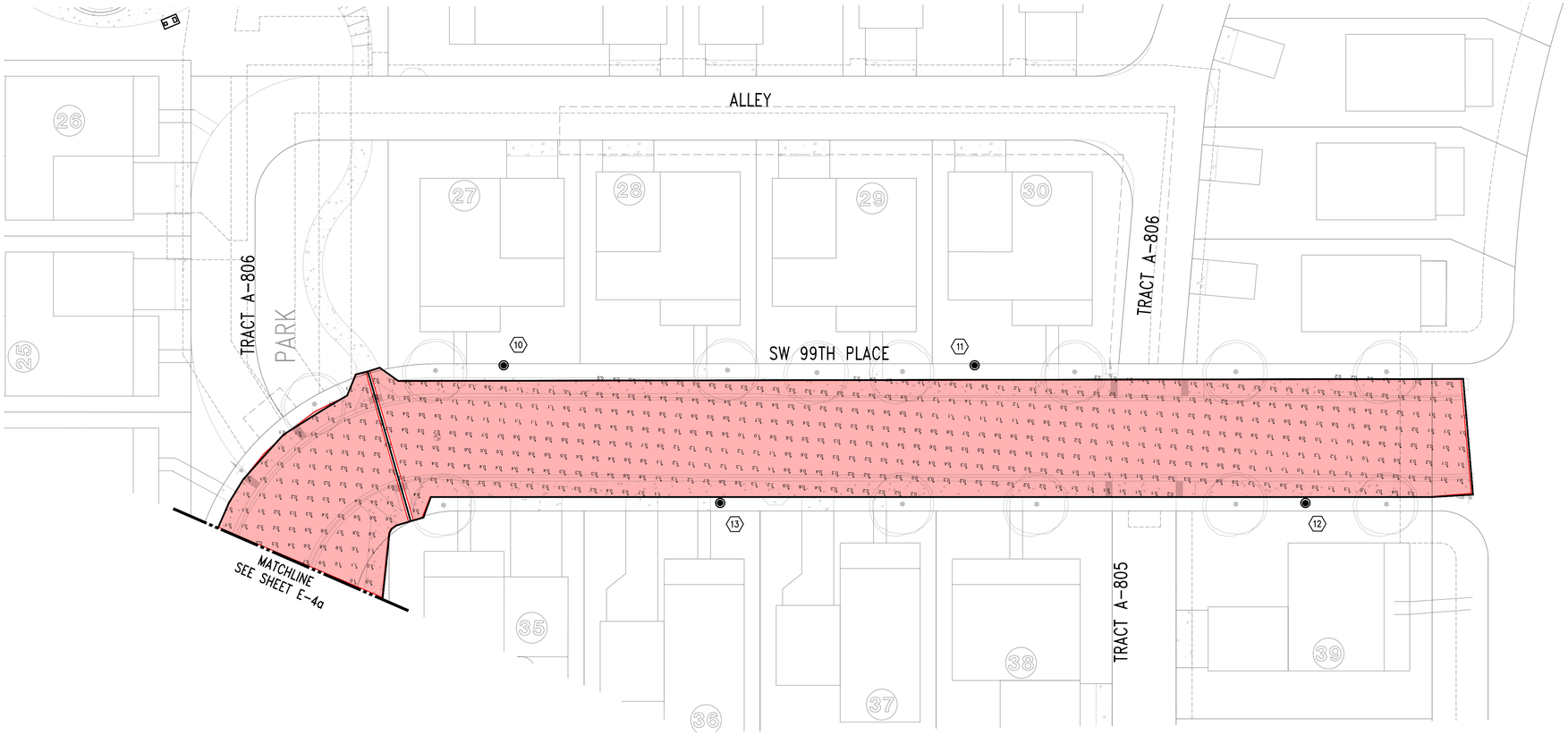
JASON COLBY MEDINA — STATE OF WASHINGTON — 52228 — REGISTERED PROFESSIONAL ENGINEER — 6/19/2020

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
PEDESTRIAN LIGHTING PHOTOMETRICS

SHEET E-4a

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SEC. 6, T.23 N., R.4E., W.M.





KEY MAP
NTS

STREET LIGHT SCHEDULE

STREET LIGHT NO.	LOCATION	PROPOSED STATION *	OFFSET	POLE ID NO. **	MOUNTING HEIGHT	CIRCUIT	TYPE/WATT/DIST.	LUMINAIRE TYPE	BASE	FOUNDATION	COMMENTS
10	SW 99TH PLACE	115+06	22.5' LT	**	14'	2	LED/72W/TYPE V	POLE (14FT): SCL STOCK NO. 013425 LUMEC APR-4-F-001-14-BK-TX	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
11	SW 99TH PLACE	116+54	22.5' LT	**	14'	1	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
12	SW 99TH PLACE	117+57	20.5' RT	**	14'	2	LED/72W/TYPE V	SHROUD (14FT POLE): SCL STOCK NO. 014248	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
13	SW 99TH PLACE	115+74	20.5' RT	**	14'	1	LED/72W/TYPE V	POST TOP HEAD: SCL STOCK NO. 014473 ARCHITECTURAL AREA LIGHTING ETOAAL008854-PRMN-T5-LDL-48LED-4K-450MA-RAL9005TX PHOTOCONTROL HOUSING: SCL STOCK NO. 014474 ARCHITECTURAL AREA LIGHTING ETOAAL008842-PCA-UF-15A-1103-RAL9005TX BLACK	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09

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LEGEND

(# = POLE #) 1	STREET LIGHT & FOUNDATION. SEE STREET LIGHT SCHEDULE THIS SHEET FOR ADDITIONAL INFORMATION
+ #.#	PHOTOMETRIC CALCULATION POINT

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5th Lane SW_Top	Illuminance	Fc	0.51	0.1	5.10
5TH PL SW_Top	Illuminance	Fc	0.67	0.1	6.70
SW 100th PL_Top	Illuminance	Fc	0.64	0.0	N.A.
SW 101st Place_Top	Illuminance	Fc	0.77	0.3	2.57
SW 97th PL_Top	Illuminance	Fc	0.59	0.0	N.A.
SW 97the Street_Top	Illuminance	Fc	0.67	0.1	6.70
SW 98th PL_Top	Illuminance	Fc	0.52	0.1	5.20
SW 98th St_Top	Illuminance	Fc	0.65	0.0	N.A.
SW 99th Place_Top	Illuminance	Fc	0.53	0.0	N.A.

0 10 20 40
1 inch = 20 ft. HORZ

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DATE JUNE 19, 2020
J O B No. : 180803
S C A L E : AS NOTED

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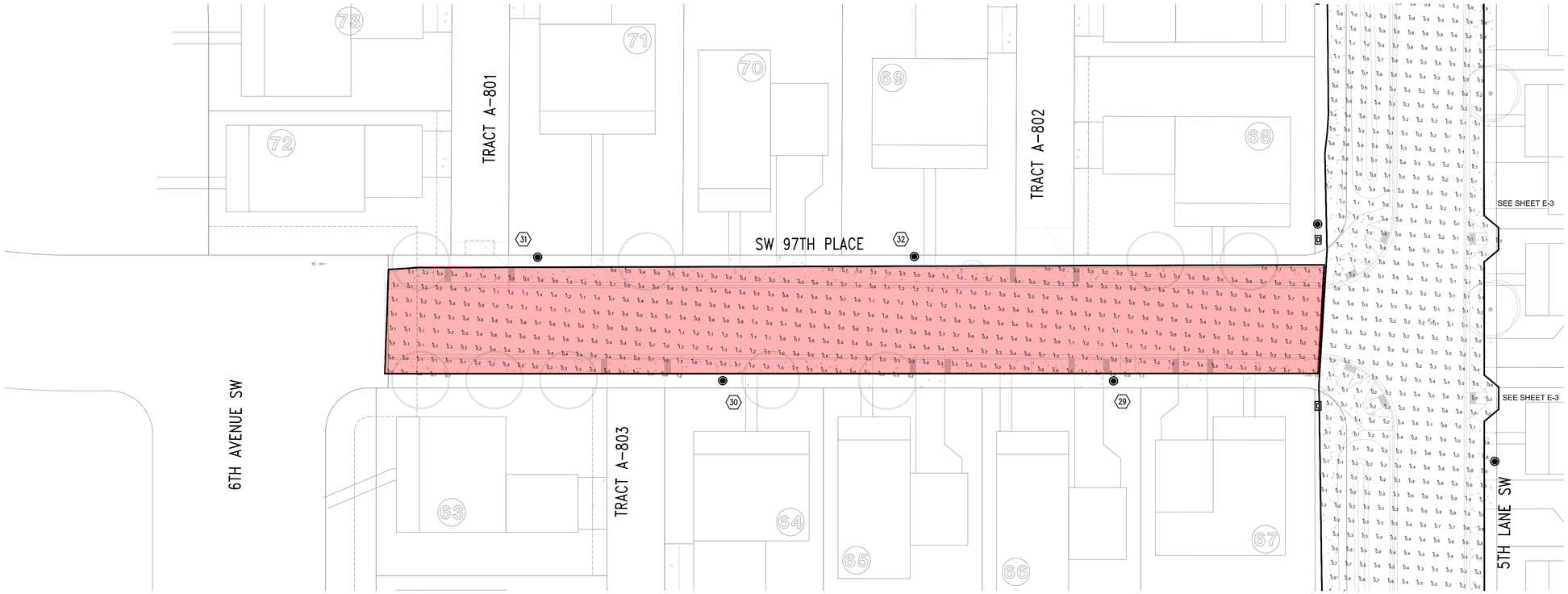
JAMES COLBY MERRICK — STATE OF WASHINGTON — 52226 — REGISTERED PROFESSIONAL ENGINEER — 6/19/2020

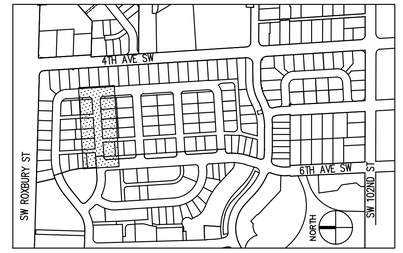
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GREENBRIDGE DIVISION 8
PEDESTRIAN LIGHTING PHOTOMETRICS

SHEET E-5a

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SEC. 6, T.23 N., R.4E., W.M.





KEY MAP
NTS

STREET LIGHT SCHEDULE

STREET LIGHT NO.	LOCATION	PROPOSED STATION *	OFFSET	POLE ID NO. **	MOUNTING HEIGHT	CIRCUIT	TYPE/WATT/DIST.	LUMINAIRE TYPE	BASE	FOUNDATION	COMMENTS
29	SW 97TH PLACE	203+90	20.5' RT	**	14'	1	LED/72W/TYPE V	POLE (14FT): SCL STOCK NO. 013425 LUMEC APR-4-F-001-14-BK-TX SHROUD (14FT POLE): SCL STOCK NO. 014248 POST TOP HEAD: SCL STOCK NO. 014473 ARCHITECTURAL AREA LIGHTING ETOAAL008854-PRMN-T5-LDL-48LED-4K-450MA-RAL9005TX PHOTOCONTROL HOUSING: SCL STOCK NO. 014474 ARCHITECTURAL AREA LIGHTING ETOAAL008842-PCA-UF-15A-1103-RAL9005TX BLACK	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
30	SW 97TH PLACE	202+55	20.5' RT	**	14'	2	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
31	SW 97TH PLACE	201+91	22.5' LT	**	14'	1	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
32	SW 97TH PLACE	203+21	22.5' LT	**	14'	2	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09

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LEGEND

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GENERAL NOTES

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5th Lane SW_Top	Illuminance	Fc	0.51	0.1	5.10
5TH PL SW_Top	Illuminance	Fc	0.67	0.1	6.70
SW 100th PL_Top	Illuminance	Fc	0.64	0.0	N.A.
SW 101st Place_Top	Illuminance	Fc	0.77	0.3	2.57
SW 97th PL_Top	Illuminance	Fc	0.59	0.0	N.A.
SW 97the Street_Top	Illuminance	Fc	0.67	0.1	6.70
SW 98th PL_Top	Illuminance	Fc	0.52	0.1	5.20
SW 98th St_Top	Illuminance	Fc	0.65	0.0	N.A.
SW 99th Place_Top	Illuminance	Fc	0.53	0.0	N.A.

N

0 10 20 40
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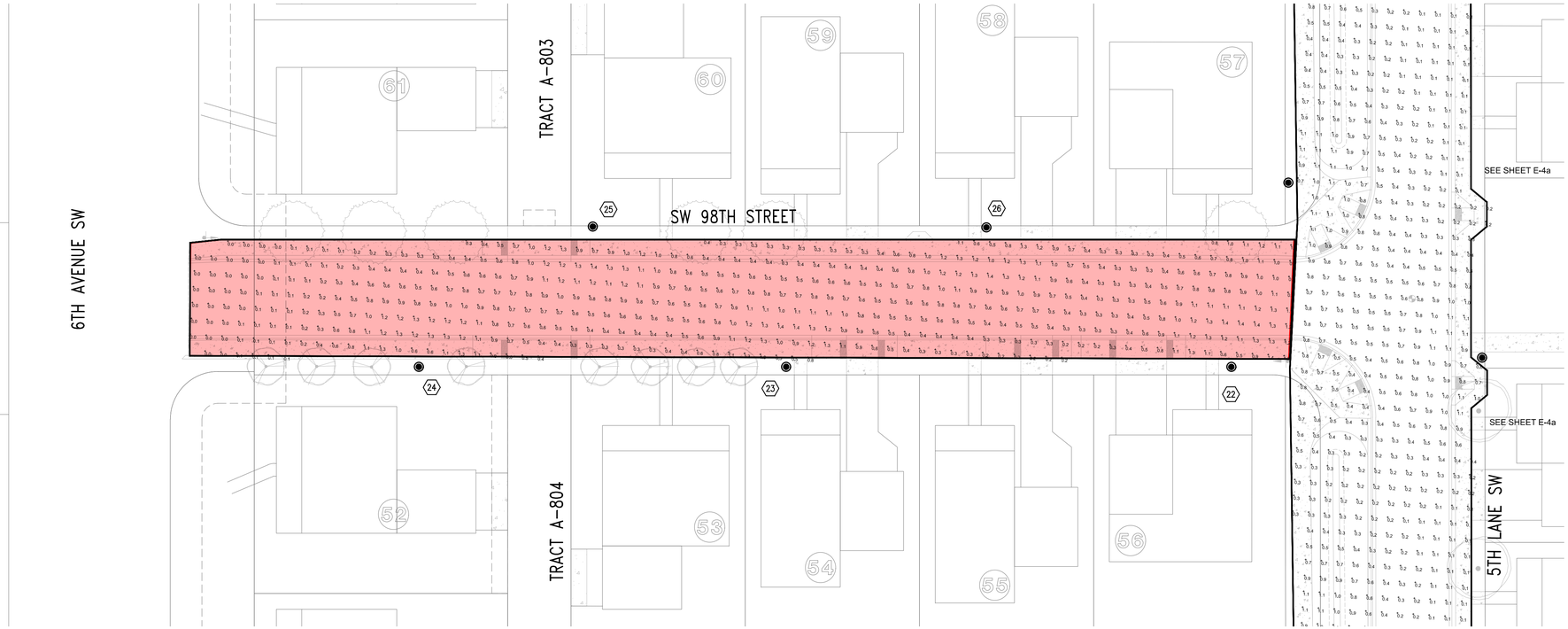
JASON COLBY MEDINA — STATE OF WASHINGTON — 52228 — REGISTERED PROFESSIONAL ENGINEER — 6/19/2020

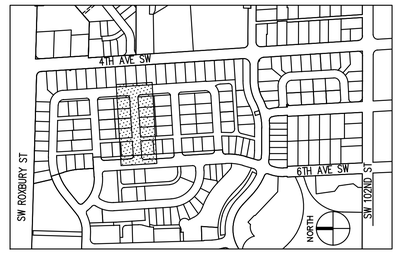
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GREENBRIDGE DIVISION 8
PEDESTRIAN LIGHTING PHOTOMETRICS

SHEET E-6a

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Jun 19, 2020 - 9:25am dph

SEC. 6, T.23 N., R.4E., W.M.





KEY MAP
NTS

STREET LIGHT SCHEDULE

STREET LIGHT NO.	LOCATION	PROPOSED STATION *	OFFSET	POLE ID NO. **	MOUNTING HEIGHT	CIRCUIT	TYPE/WATT/DIST.	LUMINAIRE TYPE	BASE	FOUNDATION	COMMENTS
22	SW 98TH STREET	304+43	21.5' RT	**	14'	2	LED/72W/TYPE V	POLE (14FT): SCL STOCK NO. 013425 LUMEC APR-4-F-001-14-BK-TX SHROUD (14FT POLE): SCL STOCK NO. 014248 POST TOP HEAD: SCL STOCK NO. 014473 ARCHITECTURAL AREA LIGHTING ETOAAL008854-PRMN-T5-LDL-48LED-4K-450MA-RAL9005TX PHOTOCONTROL HOUSING: SCL STOCK NO. 014474 ARCHITECTURAL AREA LIGHTING ETOAAL008842-PCA-UF-15A-1103-RAL9005TX BLACK	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
23	SW 98TH STREET	303+03	21.5' RT	**	14'	1	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
24	SW 98TH STREET	301+86	21.5' RT	**	14'	2	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
25	SW 98TH STREET	302+45	22.5' LT	**	14'	1	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
26	SW 98TH STREET	303+66	22.5' LT	**	14'	2	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09

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5TH PL SW_Top	Illuminance	Fc	0.67	0.1	6.70
SW 100th PL_Top	Illuminance	Fc	0.64	0.0	N.A.
SW 101st Place_Top	Illuminance	Fc	0.77	0.3	2.57
SW 97th PL_Top	Illuminance	Fc	0.59	0.0	N.A.
SW 97the Street_Top	Illuminance	Fc	0.67	0.1	6.70
SW 98th PL_Top	Illuminance	Fc	0.52	0.1	5.20
SW 98th St_Top	Illuminance	Fc	0.65	0.0	N.A.
SW 99th Place_Top	Illuminance	Fc	0.53	0.0	N.A.

N

0 10 20 40
1 inch = 20 ft. HORZ

NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY DPH | DESIGNED BY DPH
CHECKED BY DPH | APPROVED BY JCM
DATE JUNE 19, 2020
J O B No. : 180803
SCALE: AS NOTED

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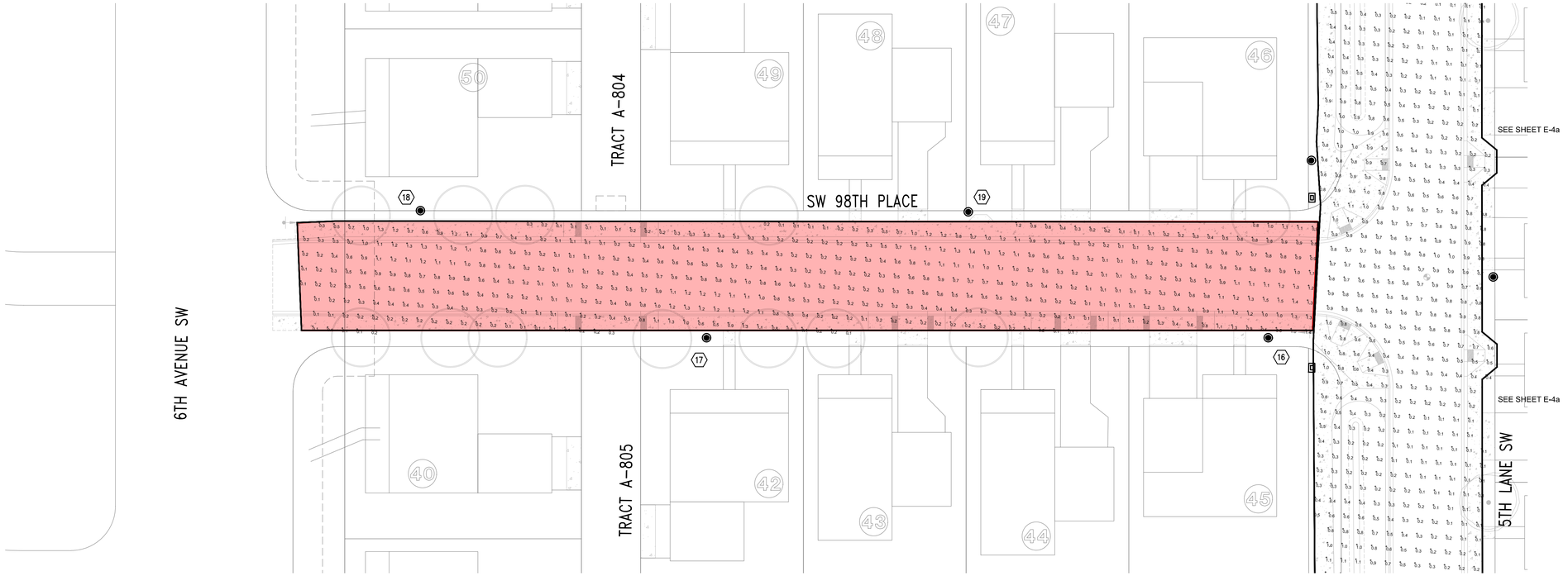
JASON COLBY MEDINA — STATE OF WASHINGTON — 52228 — REGISTERED PROFESSIONAL ENGINEER — 6/19/2020

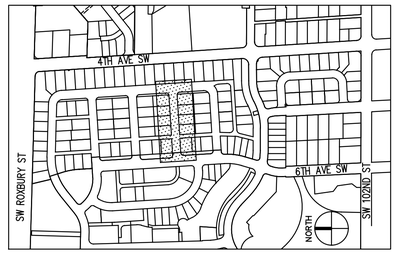
KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
PEDESTRIAN LIGHTING PHOTOMETRICS

SHEET E-7a

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Jun 19, 2020 - 9:25am dph

SEC. 6, T.23 N., R.4E., W.M.





KEY MAP
NTS

STREET LIGHT SCHEDULE

STREET LIGHT NO.	LOCATION	PROPOSED STATION *	OFFSET	POLE ID NO. **	MOUNTING HEIGHT	CIRCUIT	TYPE/WATT/DIST.	LUMINAIRE TYPE	BASE	FOUNDATION	COMMENTS
16	SW 98TH PLACE	402+46	20.5' RT	**	14'	1	LED/72W/TYPE V	POLE (14FT): SCL STOCK NO. 013425 LUMEC APR-4-F-001-14-BK-TX	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
17	SW 98TH PLACE	402+57	20.5' RT	**	14'	2	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
18	SW 98TH PLACE	401+60	22.5' LT	**	14'	1	LED/72W/TYPE V	SHROUD (14FT POLE): SCL STOCK NO. 014248	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
19	SW 98TH PLACE	403+44	22.5' LT	**	14'	2	LED/72W/TYPE V	POST TOP HEAD: SCL STOCK NO. 014473 ARCHITECTURAL AREA LIGHTING ETOAAL008854-PRMN-T5-LDL-48LED-4K-450MA-RAL9005TX	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
								PHOTOCONTROL HOUSING: SCL STOCK NO. 014474 ARCHITECTURAL AREA LIGHTING ETOAAL008842-PCA-IJF-15A-1103-RAL9005TX BLACK			

* STATIONS/OFFSETS ARE APPROXIMATE. CONTRACTOR SHALL CONFIRM ANY ADJUSTMENTS WITH ALL TRADES AND ENGINEER PRIOR TO IMPLEMENTING.
** TO BE NUMBERED AT THE TIME OF CONSTRUCTION.

LEGEND

(# = POLE #) 1	STREET LIGHT & FOUNDATION. SEE STREET LIGHT SCHEDULE THIS SHEET FOR ADDITIONAL INFORMATION
+ #.#	PHOTOMETRIC CALCULATION POINT

GENERAL NOTES

1. HIGHLIGHTED AREA REPRESENTS CALCULATION AREA.
2. PHOTOMETRIC CALCULATION POINTS ARE LOCATED ON ROADWAYS/SIDEWALKS WHERE SHOWN.
3. A LIGHT LOSS FACTOR OF 0.9 IS INCLUDED IN THE CALCULATION RESULTS.
4. SEE CALCULATION SUMMARY TABLE THIS SHEET FOR ILLUMINANCE VALUES.

CALCULATION SUMMARY

Label	CalcType	Units	Avg	Min	Avg/Min
5th Ave SW_Top	Illuminance	Fc	0.44	0.0	N.A.
5th Lane SW_Top	Illuminance	Fc	0.51	0.1	5.10
5TH PL SW_Top	Illuminance	Fc	0.67	0.1	6.70
SW 100th PL_Top	Illuminance	Fc	0.64	0.0	N.A.
SW 101st Place_Top	Illuminance	Fc	0.77	0.3	2.57
SW 97th PL_Top	Illuminance	Fc	0.59	0.0	N.A.
SW 97the Street_Top	Illuminance	Fc	0.67	0.1	6.70
SW 98th PL_Top	Illuminance	Fc	0.52	0.1	5.20
SW 98th St_Top	Illuminance	Fc	0.65	0.0	N.A.
SW 99th Place_Top	Illuminance	Fc	0.53	0.0	N.A.

N

0 10 20 40
1 inch = 20 ft. HORZ

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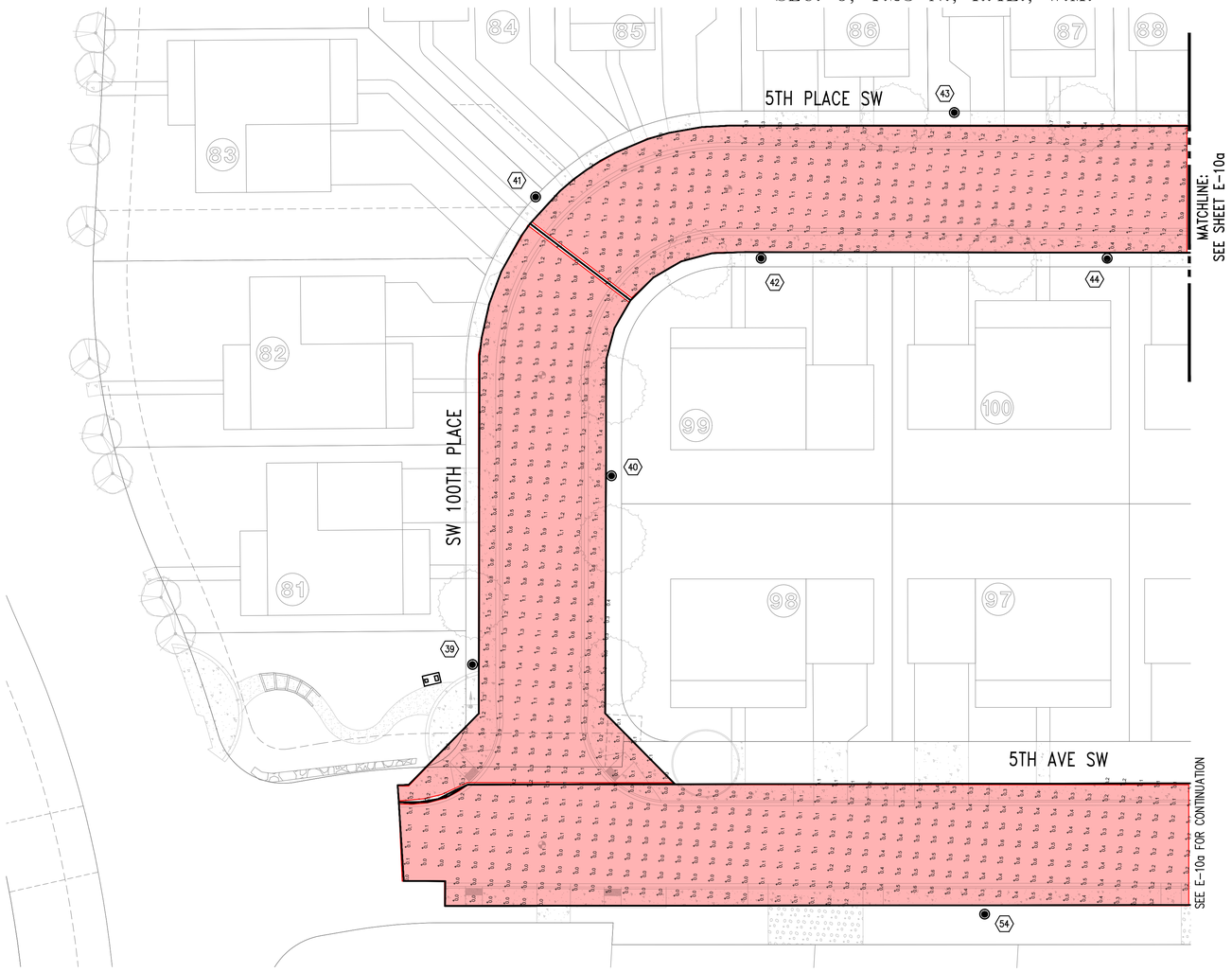
JANSE COLBY MEDVICK — STATE OF WASHINGTON — 52228 — REGISTERED PROFESSIONAL ENGINEER — 6/19/2020

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
PEDESTRIAN LIGHTING PHOTOMETRICS

SHEET E-8a

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SEC. 6, T.23 N., R.4E., W.M.





KEY MAP
NTS

STREET LIGHT SCHEDULE

STREET LIGHT NO.	LOCATION	PROPOSED STATION *	OFFSET	POLE ID NO. **	MOUNTING HEIGHT	CIRCUIT	TYPE/WATT/DIST.	LUMINAIRE TYPE	BASE	FOUNDATION	COMMENTS
39	SW 100TH PLACE	600+53	22.5' LT	**	14'	1	LED/72W/TYPE V	POLE (14FT): SCL STOCK NO. 013425 LUMEC APR-4-F-001-14-BK-TX	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
40	SW 100TH PLACE	601+09	20.5' RT	**	14'	1	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
41	SW 100TH PLACE	601+78	22.5' LT	**	14'	2	LED/72W/TYPE V	POLE (20FT): SCL STOCK NO. 014272 VALMONT INDUSTRIES, INC. R-1908-40-60-6-T4-DBL (3)	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
42	5TH PLACE SW	602+34	20.5' RT	**	14'	2	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
43	5TH PLACE SW	602+93	22.5' LT	**	14'	1	LED/72W/TYPE V	SHROUD (14FT POLE): SCL STOCK NO. 014248	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
44	5TH PLACE SW	603+37	20.5' RT	**	14'	1	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
54 ***	5TH AVE SW	707+09	20.5' RT	**	20'	2	LED/72W/TYPE V	POST TOP HEAD: SCL STOCK NO. 014473 ARCHITECTURAL AREA LIGHTING ETOAAL008854-PRMN-T5-LDL-48LED-4K-450MA-RAL9005TX BLACK PHOTOCONTROL HOUSING: SCL STOCK NO. 014474 ARCHITECTURAL AREA LIGHTING ETOAAL008842-PCA-UF-15A-T103-RAL9005TX BLACK (3)	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5752.05 (3)

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** TO BE NUMBERED AT THE TIME OF CONSTRUCTION.
*** 20' POLE PROVIDED BY KCHA. SHROUD AND POST TOP HEAD PROVIDED BY CONTRACTOR.

LEGEND

(# = POLE #) 1	STREET LIGHT & FOUNDATION. SEE STREET LIGHT SCHEDULE THIS SHEET FOR ADDITIONAL INFORMATION
+ #.##	PHOTOMETRIC CALCULATION POINT

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CALCULATION SUMMARY

Label	CalcType	Units	Avg	Min	Avg/Min
5th Ave SW_Top	Illuminance	Fc	0.44	0.0	N.A.
5th Lane SW_Top	Illuminance	Fc	0.51	0.1	5.10
5TH PL SW_Top	Illuminance	Fc	0.67	0.1	6.70
SW 100th PL_Top	Illuminance	Fc	0.64	0.0	N.A.
SW 101st Place_Top	Illuminance	Fc	0.77	0.3	2.57
SW 97th PL_Top	Illuminance	Fc	0.59	0.0	N.A.
SW 97the Street_Top	Illuminance	Fc	0.67	0.1	6.70
SW 98th PL_Top	Illuminance	Fc	0.52	0.1	5.20
SW 98th St_Top	Illuminance	Fc	0.65	0.0	N.A.
SW 99th Place_Top	Illuminance	Fc	0.53	0.0	N.A.

N

0 10 20 40
1 inch = 20 ft. HORZ

NO.	DATE	BY	CHD.	APPR.	REVISION
3	5/18/2020				ADDENDUM #3

DRAWN BY DPH | DESIGNED BY DPH
CHECKED BY DPH | APPROVED BY JCM
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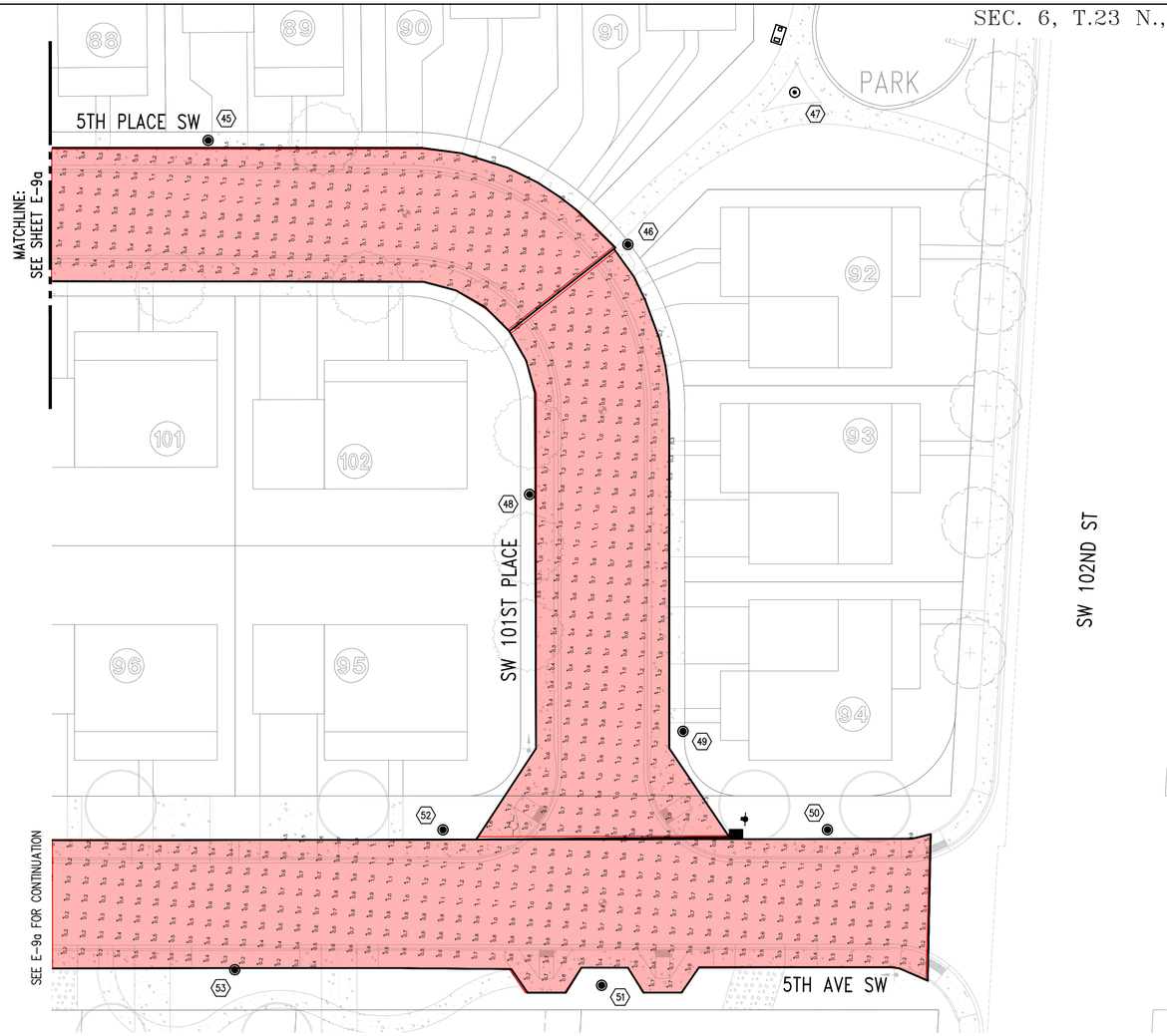
JASON COLBY MCKINNEY — STATE OF WASHINGTON — 32226 — REGISTERED PROFESSIONAL ENGINEER — 6/19/2020

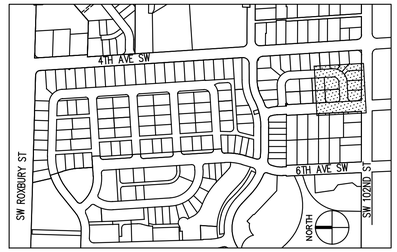
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WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
PEDESTRIAN LIGHTING PHOTOMETRICS

SHEET E-9a

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SEC. 6, T.23 N., R.4E., W.M.





KEY MAP
NTS

STREET LIGHT SCHEDULE

STREET LIGHT NO.	LOCATION	PROPOSED STATION *	OFFSET	POLE ID NO. **	MOUNTING HEIGHT	CIRCUIT	TYPE/WATT/DIST.	LUMINAIRE TYPE	BASE	FOUNDATION	COMMENTS
45	5TH PLACE SW	604+04	22.5' LT	**	14'	2	LED/72W/TYPE V	POLE (14FT): SCL STOCK NO. 013425 LUMEC APR-4-F-001-14-BK-TX	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
46	5TH PLACE SW	605+12	22.5' LT	**	14'	1	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
47	PARK	N/A	N/A	**	14'	PARK	LED/72W/TYPE V	POLE (20FT): SCL STOCK NO. 014272 VALMONT INDUSTRIES, INC. R-1908-40-60-6-T4-DBL (3)	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
48	SW 101ST PLACE	605+70	20.5' RT	**	14'	2	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
49	SW 101ST PLACE	606+38	22.5' LT	**	14'	2	LED/72W/TYPE V	SHROUD (14FT POLE): SCL STOCK NO. 014248	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
50	5TH AVE SW	709+87	20.5' LT	**	14'	2	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
51 ***	5TH AVE SW	709+31	23.0' RT	**	20'	2	LED/72W/TYPE V	POST TOP HEAD: SCL STOCK NO. 014473 ARCHITECTURAL AREA LIGHTING ETOAAL008854-PRMN-T5-LDL-48LED-4K-450MA-RAL9005TX BLACK	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5752.05
52	5TH AVE SW	708+79	20.5' LT	**	14'	2	LED/72W/TYPE V		FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5756.09
53 ***	5TH AVE SW	708+21	18.5' RT	**	20'	1	LED/72W/TYPE V	PHOTOCONTROL HOUSING: SCL STOCK NO. 014474 ARCHITECTURAL AREA LIGHTING ETOAAL008842-PCA-UF-15A-1103-RAL9005TX BLACK (3)	FIXED	COS STANDARD PLAN 543b.	SEE SCL MATERIAL STANDARDS 5723.19 AND 5752.05 (3)

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*** 20' POLE PROVIDED BY KCHA. SHROUD AND POST TOP HEAD PROVIDED BY CONTRACTOR.

LEGEND

(# = POLE #) (1)	STREET LIGHT & FOUNDATION. SEE STREET LIGHT SCHEDULE THIS SHEET FOR ADDITIONAL INFORMATION
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SW 100th PL_Top	Illuminance	Fc	0.64	0.0	N.A.
SW 101st Place_Top	Illuminance	Fc	0.77	0.3	2.57
SW 97th PL_Top	Illuminance	Fc	0.59	0.0	N.A.
SW 97the Street_Top	Illuminance	Fc	0.67	0.1	6.70
SW 98th PL_Top	Illuminance	Fc	0.52	0.1	5.20
SW 98th St_Top	Illuminance	Fc	0.65	0.0	N.A.
SW 99th Place_Top	Illuminance	Fc	0.53	0.0	N.A.

0 10 20 40
1 inch = 20 ft. HORZ

NO.	DATE	BY	CHD.	APPR.	REVISION
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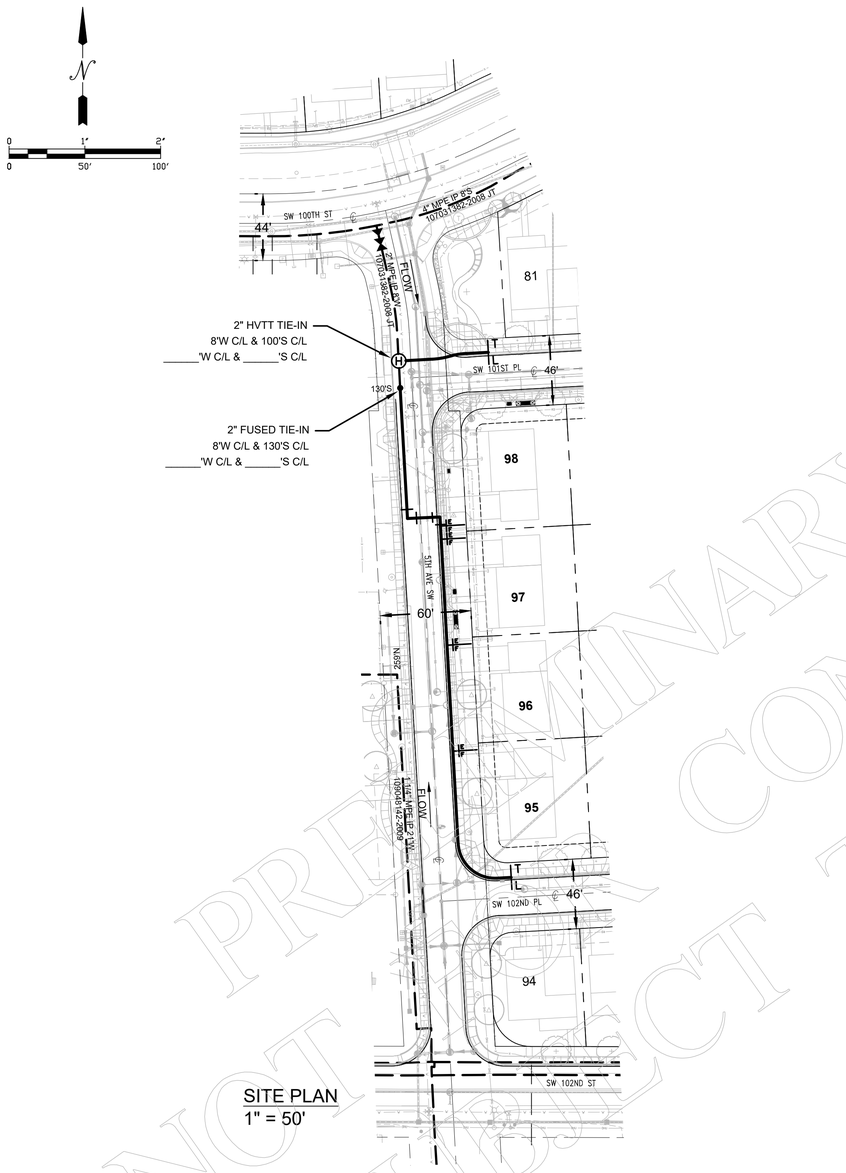
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King County Housing Authority

JASON COLBY MCCUNE — STATE OF WASHINGTON — 32226 — REGISTERED PROFESSIONAL ENGINEER — 6/19/2020

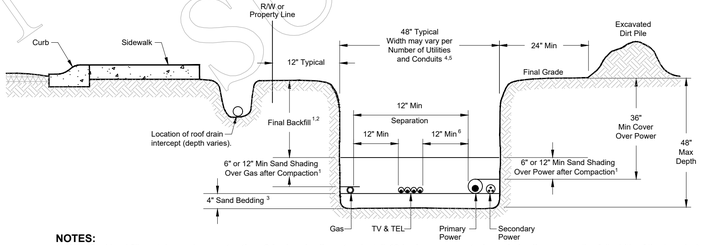
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SHEET E-10a

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Jun 19, 2020 - 9:28am dph



SITE PLAN
1" = 50'

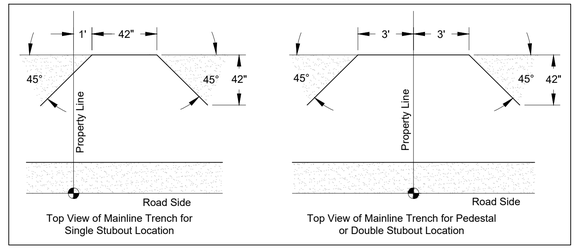


NOTES:
1. If the final backfill contains rocks ***greater than 8 inches in diameter***, install ***12 inches compacted sand shading*** across the full width of the trench. *
   If the final backfill contains rocks ***8 inches in diameter or smaller***, install ***6 inches compacted sand shading*** across the full width of the trench. *
2. Rocks ***greator than 10 inches diameter*** are not permitted in the final backfill.
3. Sand bedding is required under PSE gas pipe. Bedding is not required for the full width of the trench; it shall extend from the side of the trench nearest to where the gas main/service is installed to a minimum of 6 inches on the opposite side of the gas line.
4. Utilities shall not be stacked over the gas line in the trench.
5. If wet utilities will be included in the trench, please contact PSE or local power company directly for clearance requirements.
6. Reduced clearance of 4 inches between power and communication, must have approval of the communications companies.

* Alternatives to full-width trench shading require PSE approval.

JOINT TRENCH DETAIL
Primary & Secondary-Mainline Gas & Communications (NTS)

GASSED UP PIPELINE			Verify Testing Requirements, Chart vs Gauge GOS 2525.3300 sec. 5, Table 5-1 and sec. 5.5				
PIPE SEGMENT	FOREMAN'S NAME	DATE	GAS MAIN PRESSURE & TESTING				
			TYPE TEST	☐ SOAP	☐ AIR	☐ NITROGEN	☐ WATER
			DATE ON	/ /	START TIME		TESTED BY
			DATE OFF	/ /	STOP TIME		
			PRESSURE		TEST RESULTS	☐ P ☐ F	
			TYPE TEST	☐ SOAP	☐ AIR	☐ NITROGEN	☐ WATER
			DATE ON	/ /	START TIME		TESTED BY
			DATE OFF	/ /	STOP TIME		
			PRESSURE		TEST RESULTS	☐ P ☐ F	
			TYPE TEST	☐ SOAP	☐ AIR	☐ NITROGEN	☐ WATER
			DATE ON	/ /	START TIME		TESTED BY
			DATE OFF	/ /	STOP TIME		
			PRESSURE		TEST RESULTS	☐ P ☐ F	
			TYPE TEST	☐ SOAP	☐ AIR	☐ NITROGEN	☐ WATER
			DATE ON	/ /	START TIME		TESTED BY
			DATE OFF	/ /	STOP TIME		
			PRESSURE		TEST RESULTS	☐ P ☐ F	
			TYPE TEST	☐ SOAP	☐ AIR	☐ NITROGEN	☐ WATER
			DATE ON	/ /	START TIME		TESTED BY
			DATE OFF	/ /	STOP TIME		
			PRESSURE		TEST RESULTS	☐ P ☐ F	
			☐ TESTED BY PSE PRESSURE CONTROL, SEE FORM 1928				
			DESIGN PRESS	60	SYS MAOP	N/A	
			2023 03/10				



STUBOUT EXCAVATION DIMENSIONS
NOT TO SCALE

→SEE PSE HANDBOOKS←
SEE 2772 (MF), 3885
FOR TRENCH SEE 3061, 2809

CUSTOMER APPROVAL
I approve the location of the trench, including road crossings, and all electrical equipment as shown on print.

Customer's Signature

Print Name/Date

FITTER'S CHECKLIST (CHECK BOX TO CONFIRM COMPLETION)
- ☐ Inspected Steel and PE pipe per GOS 2450.1400 and 2450.1500
- ☐ Reviewed and complied with all construction notes.
- ☐ Recorded all required information on the as-built per GOS 2500.1700.
- ☐ Completed post installation inspection per GOS 2525.1200 and 2525.2700.
- ☐ Left the work area in a clean and safe condition.

Foreman's Signature_____

Foreman's Name (printed) _____

Company: _____ Date _____

4680 06/11

GENERAL NOTES - GAS (JOINT TRENCH):

1. Excavator to contact Utilities Underground Location Center (One-Call) 48 hours prior to construction, to two working days prior to construction. 1-800-424-5555
2. Notify appropriate permitting agency prior to job start (see permit requirements).
3. Erosion and sediment control shall be per PSE Standard Practice 0150.3200 Techniques for Temporary Erosion and Sediment Control and any additional local jurisdiction requirements.
4. Any change in route, pipe size/type, tie-in method or additional main footage must be approved by the appropriate Engineer/Project Manager.
5. Complete "Exposed Pipe Condition Report" on all exposed existing Steel PSE Facilities. Check box on report for wire box (Test Lead) installation.
6. Pipeline Markers and Warning Signs shall be installed and recorded by the Contractor per PSE Gas Operating Standard 2525.2500.
7. To prevent accidental overpressure of adjoining systems, no two mains shall be connected, except as shown on this design, unless approved by the appropriate Engineer/Project Manager.
8. System MAOP denoted by System MAOP = 45 PSIG
9. Install Main Valves out of traffic where possible.
10. Gauge (use Manometer for LP Systems) and monitor use of all stoppers and squeezes to insure adequate feed.
11. Install one pound Anode for every 1000' of locating wire. Install Anode and Test Lead Wires per PSE Gas Operating Standards 2525.1200 and 2525.2300.
12. If STW pipe involved, coordinate installation with CP Tech. N/A Cell # N/A .
13. Purge Points and Pressure Taps shall be installed per PSE Gas Operating Standards 2525.3400 and PSE Gas Field Procedures Manual 0812 and 0813.
14. Mains and services shall be tested and purged per PSE Gas Operating Standards 2525.3300 and 2525.3400.
15. Unless otherwise noted:
    All pipes installed in plat to be 2" MPE-7.
    All crossings to be Yellow 4" PVC.
    All Services to be 1-1/8" PE.
    / denotes service stub location.
    (_____') denotes footage between fittings.
16. Customer to dig and backfill on private property or easement only. Trenches must conform to PSE Gas Operating Standards 2525.1500, 2525.1600 and 2525.1700.
17. Note all recordable footages, locations and material changes on the as-built in red.
18. Upon completion of the project send the print copy, along with the completed work order, listing crew & actual materials used to the appropriate design group.
19. On site pre-con required before start of job.
20. At symbol: ━━━━━ install natural gas main piping and fixtures. Size as indicated on tables and work sketch (gas main is to parallel power system unless otherwise shown on work sketch).
21. Inclement weather conditions may cause delays in construction times and dates.

GAS MAIN INSTALLATION/RETIREMENT

Type/Work	Pipe Size	Type	Est Length	Act Lgth	Manufacturer
INSTALL	2"	MPE-___	XX FT		
JOINT	2"	MPE-___	XX FT		

Verify Testing Requirements, Chart vs Gauge GOS 2525.3300 sec. 5, Table 5-1 and sec. 5.5				
GAS MAIN PRESSURE & TESTING				
TYPE TEST	☐ SOAP	☐ AIR	☐ NITROGEN	☐ WATER
DATE ON	/ /	START TIME		TESTED BY
DATE OFF	/ /	STOP TIME		
PRESSURE		TEST RESULTS	☐ P ☐ F	
TYPE TEST	☐ SOAP	☐ AIR	☐ NITROGEN	☐ WATER
DATE ON	/ /	START TIME		TESTED BY
DATE OFF	/ /	STOP TIME		
PRESSURE		TEST RESULTS	☐ P ☐ F	
☐ TESTED BY PSE PRESSURE CONTROL, SEE FORM 1928				
DESIGN PRESS	60	SYS MAOP	IP 058-45	
2023 02/18				

PROJECT PHASE		Notification #	Order #
GAS	SAP Superior	509081515	107059591
	Service Stubs	N/A	106365673
	Service/Meter	N/A	N/A
	Service/Meter	N/A	N/A
	Service/Meter	N/A	N/A
	Ind. Service	N/A	N/A
	Ind. MSA	N/A	N/A
	Dis. Reg. / FT	N/A	N/A
	HP Svc/MSA	N/A	N/A
	Relocate	N/A	N/A
	Retirement	N/A	N/A

Vicinity Map
47.514741, -122.341940



N/A
107059591

JOHNE@KCHA.ORG

Owner / Developer Contact Info

KING COUNTY HOUSING AUTHORITY
600 ANDOVER PARK WEST
SEATTLE. WA, 98188
ATTN: JOHN ELIASON 206.754.1196 office

Project Manager Contact Information:
Manager: RANDY BLACKIE
Cell Phone: 253.395.6850
E-Mail: randy.blackie@pse.com

"Locates Required" Yes ☒ No ☐
"Flagging Required" Yes ☒ No ☐

For contacts below dial 1-888-CALL PSE (225-5773)

CALL (800) 424-5555
2 BUSINESS DAYS BEFORE YOU DIG
THIS SKETCH NOT TO BE RELIED UPON FOR EXACT LOCATION OF EXISTING FACILITIES

REAL ESTATE/EASEMENT	PERMIT
REDT # (RW-TBD)	SEATTLE

REV#	DATE	BY	DESCRIPTION
3	.	.	.
2	.	.	.
1	.	.	.

FUNCTION	CONTACT	PHONE NO	DATE
PROJECT MGR	R. BLACKIE	253.395.6850	03.06.20
ENGR - GAS	A. SINITSIN	206.573.8624	03.06.20
DRAWN BY	A. SINITSIN	206.573.8624	03.06.20
CHECKED BY			
APPROVED BY			
CP APPROVAL	N/A	N/A	N/A
PC APPROVAL	.	.	.
MAPPING			

COUNTY	Emer Sect	GAS WK CTR
KING	22	CIKNC
1/4 SEC	OP MAP	PLAT MAP
NE6 T23 R04E	204.068	204.069

JOINT FACILITIES ARRANGEMENTS				
UTILITIES	N/A	N/A	RIGHT OF WAY	N/A
CONTACT	N/A	N/A	ROW TBD	N/A
PHONE#	N/A	N/A	ROW TEL TBD	N/A

PUGET SOUND ENERGY

GREENBRIDGE DIV.8 PHASE 1
2" MPE-___ GAS MAIN EXTENSION - 4 S/F LOTS
9800 4TH AVE SW, SEATTLE, WA, 98106

DESIGNED BY PUGET SOUND ENERGY

SAP Sup Order Nbr	
107059591	
ELEC Order Number	
N/A	
SCALE	PAGE
1" = 50'	1 OF 1

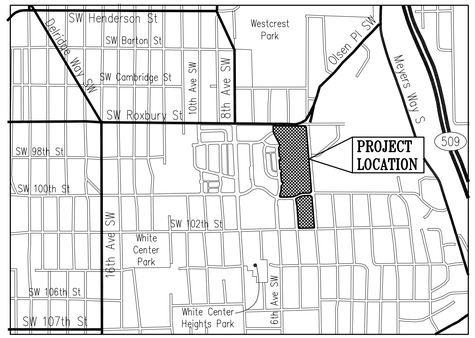
PRELIMINARY ONLY
NOT FOR CONSTRUCTION
SUBJECT TO CHANGE

Apr 21, 2020 — 4:49pm C:\Users\ysinit\Desktop\WFH\Greenbridge Division 8 (Phase 1) 10705959\DESIGN\ PRELIM — Greenbridge Div. 8 P1 — 107059591.dwg
4/21/2020 4:48 PM ysinit — sinitsin, alexey

GREENBRIDGE DIVISION 8

INFRASTRUCTURE
FRANCHISE UTILITY IMPROVEMENT PLANS

SEC. 6, T.23 N., R.4E., W.M.
White Center, Washington
CONSTRUCTION DOCUMENTS



VICINITY MAP
N.T.S.

NORTH

DRAWING INDEX	
SHEET	DRAWING TITLE
FRANCHISE UTILITY PLANS	
UT–1	FRANCHISE UTILITY NOTES
UT–1A	OVERALL PLAN
UT–2	SW 96TH PLACE PLAN AND PROFILE
UT–3	5TH AVENUE SW PLAN AND PROFILE
UT–4	5TH AVENUE SW PLAN AND PROFILE
UT–5	99TH PLACE SW PLAN AND PROFILE
UT–6	SW 97TH PLACE PLAN AND PROFILE
UT–7	SW 98TH STREET PLAN AND PROFILE
UT–8	SW 98TH PLACE PLAN AND PROFILE
UT–9	TRACT A–801 PLAN AND PROFILE
UT–10	TRACT A–802 PLAN AND PROFILE
UT–11	TRACT A–803 PLAN AND PROFILE
UT–12	TRACT A–804 PLAN AND PROFILE
UT–13	TRACT A–805 PLAN AND PROFILE
UT–14	TRACT A–806 PLAN AND PROFILE
UT–15	TRACT A–806 PLAN AND PROFILE
UT–16	TRACT A–806 PLAN AND PROFILE
UT–17	5TH AVENUE SW PLAN AND PROFILE
UT–18	5TH AVENUE SW PLAN AND PROFILE
UT–19	SW 101ST PLAN AND 5TH PLACE SW PLAN AND PROFILE
UT–20	5TH PLACE SW AND SW 102ND PLACE PLAN AND PROFILE
UT–21	TYPICAL SECTIONS
UT–22	TYPICAL SECTIONS
UT–23	TYPICAL SECTIONS

Contract No.

PROJECT DEVELOPER
KING COUNTY HOUSING AUTHORITY
600 ANDOVER PARK WEST
TUKWILA, WA. 98188–3326
TELEPHONE: (206) 574–1196
CONTACT PERSON : JOHN ELIASON

PROJECT ENGINEER
KPFF CONSULTING ENGINEERS
1601 FIFTH AVENUE, SUITE 1600
SEATTLE, WASHINGTON 98101
TELEPHONE: (206) 622–5822

NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY TAD, BJB | DESIGNED BY BJB
CHECKED BY JCG | APPROVED BY MAV
DATE 2020
J O B No. : 1600206

Call 811 two business days before you dig

S C A L E: AS NOTED

kpff
1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com

Greenbridge
King County Housing Authority

MARK A. VEH — STATE OF WASHINGTON — 24731 REGISTERED PROFESSIONAL ENGINEER — PRELIMINARY

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
COVER SHEET

SHEET
CVR

Z:\1600001–1600999\1600206 (Greenbridge)\CAD\Design\02–Design Development\SD1\00 GB SD1 COVER.dwg
Apr 01, 2020 – 3:45pm BrantB

SEC. 6, T.23 N., R.4E., W.M.

GENERAL NOTES

1. A COPY OF THE APPROVED PLANS AND THE MOST RECENT SCL CONSTRUCTION GUIDELINES SHALL BE ON SITE WHENEVER CONSTRUCTION IS IN PROGRESS.

2. THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR WORK WITHIN THE PUBLIC RIGHT OF WAY.

3. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL SCHEDULE AND ATTEND A PRE-CONSTRUCTION CONFERENCE WITH KING COUNTY. THE CONTRACTOR SHALL NOTIFY SEATTLE CITY LIGHT, COMCAST, PSE REPRESENTATIVES AND THE OWNER'S PROFESSIONAL ENGINEERING CONSULTANT OF THE PRE-CONSTRUCTION MEETING TIME AND LOCATION.

4. ALL MATERIALS AND WORK ASSOCIATED WITH THE CONSTRUCTION OF THE FRANCHISE UTILITIES SHALL BE PERFORMED TO SCL CONSTRUCTION GUIDELINES, UNLESS OTHERWISE NOTED ON THE PLANS OR REQUIRED BY SCL, COMCAST OR PSE INSPECTORS.

5. VERTICAL DATUM: NAVD 88

   BENCHMARK "A"
   ELEVATION = 414.77
   TOP FLANGE BOLT BETWEEN "E" AND "L" IN MULLER FIRE HYDRANT AT SOUTHEAST CORNER OF SW 115TH STREET AND 4TH AVENUE SW.

6. THE CONTRACTOR SHALL NOTIFY THE SEATTLE FIRE DEPARTMENT DISPATCHER (386-1495) AT LEAST TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL WATER SERVICE INTERRUPTIONS, HYDRANT SHUTOFFS, AND STREET CLOSURES OR OTHER ACCESS BLOCKAGE. THE CONTRACTOR SHALL ALSO NOTIFY THE DISPATCHER OF ALL NEW, RELOCATED, OR ELIMINATED HYDRANTS RESULTING FROM THIS WORK.

7. ALL LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN.

8. THE CONTRACTOR SHALL LOCATE AND PROTECT ALL CASTINGS AND UTILITIES DURING CONSTRUCTION AND SHALL CONTACT THE UNDERGROUND UTILITIES LOCATOR SERVICE (1-800-424-5555) AT LEAST TWO BUSINESS DAYS PRIOR TO CONSTRUCTION.

9. THE CONTRACTOR SHALL ADJUST ALL EXISTING MANHOLE RIMS, DRAINAGE STRUCTURE LIDS, VALVE BOXES, AND UTILITY ACCESS STRUCTURES TO FINISH GRADE WITHIN AREAS AFFECTED BY THE PROPOSED IMPROVEMENTS.

10. UTILITY SERVICE CONNECTIONS ARE TO BE MAINTAINED PRIVATELY AND NOT BY THE CITY OF SEATTLE OR KING COUNTY.

11. CARE SHALL BE EXERCISED WHEN EXCAVATING NEAR EXISTING CHARGED WATER MAINS.

12. ALL WORK PERFORMED BY SEATTLE CITY LIGHT, SPU, AND OTHER PUBLIC/PRIVATE UTILITIES TO REMOVE OR RELOCATE EXISTING UTILITIES AT THE DEVELOPER'S EXPENSE SHALL BE COORDINATED BY THE CONTRACTOR.

13. THE CONTRACTOR SHALL FIELD VERIFY THE CROSSING ELEVATIONS OF PROPOSED AND EXISTING UTILITIES ABOVE AND BELOW THE PROPOSED DUCT BANKS AND MODIFY THE FRANCHISE UTILITY CONDUIT BENDS AND SEPARATIONS AS REQUIRED BY SCL CONSTRUCTION GUIDELINES.

14. CONTRACTOR IS RESPONSIBLE FOR OFFSETTING VAULTS AND HANDHOLES BEHIND THE BACK OF CURB OR BEHIND THE SIDEWALK, AS LABELED ON THE PLAN. THE CONTRACTOR IS RESPONSIBLE FOR AVOIDING POTENTIAL CONFLICTS WITH EXISTING AND PROPOSED UTILITIES.

15. SOME ELEMENTS OF THE SURVEY BACKGROUND HAVE BEEN REMOVED FROM THESE PLANS AS REQUESTED BY SCL. CONTRACTOR IS RESPONSIBLE FOR REFERRING TO THE SURVEY AND DEMOLITION PLANS PROVIDED WITH THE CONTRACT DOCUMENTS TO ASCERTAIN ANY POTENTIAL CONFLICTS WITH THE IMPLEMENTATION OF THIS UTILITY CONSTRUCTION.

SEATTLE CITY LIGHT GENERAL NOTES

1. OBTAIN A PERMIT TO TRENCH IN PUBLIC RIGHT-OF-WAY. PHONE (206) 296-7456 IN KING COUNTY FOR PERMIT INFORMATION.

   PHONE 1-800-424-5555 AT LEAST TWO BUSINESS DAYS IN ADVANCE OF ANY DIGGING SO THAT UNDERGROUND UTILITIES CAN BE LOCATED AND MARKED.

   ISOLATE THE TRANSFORMER VAULTS SO THAT SOUND AND VIBRATION LEVELS SATISFY THE APPLICABLE LAWS AND ORDINANCES OF THE WASHINGTON ADMINISTRATIVE CODE, KING COUNTY, AND THE CITY OF SEATTLE. THE INSTALLATION SHALL MEET ALL APPLICABLE NOISE-LEVEL ORDINANCES.

   BE RESPONSIBLE TO PREVENT WATER FROM ENTERING THE SERVICE EQUIPMENT OR THE BUILDING THROUGH THE SERVICE CONDUIT OR THE CONDUIT ENTRANCE.

   ACCESS:
   - PROVIDE ADEQUATE CITY LIGHT VEHICULAR (TRUCK) ACCESS TO THE VAULTS AT ALL TIME FOR INSTALLATION AND SERVICE OF ELECTRICAL EQUIPMENT.
   - PROVIDE PERMANENT, LEVEL, UNOBSTRUCTED, 6 FT WIDE WORKING AREA AROUND VAULTS.

   INSPECTION: PHONE JEFF JONES (206-386-4278) AT LEAST TWO BUSINESS DAYS IN ADVANCE OF SETTING THE VAULTS AND HANDHOLES IN ORDER TO SCHEDULE A FIELD ENGINEER TO OBSERVE THE SETTING. THE FIELD ENGINEER WILL ALSO INSPECT THE SYSTEM CONDUITS. NO INSPECTION WILL BE MADE UNLESS THE SHORING FOR THE EXCAVATION COMPLIES WITH WAC 296-155 PART N, "EXCAVATION, TRENCHING, AND SHORING." NOTE: THE VAULT VENTS OR VAULT HATCHES MUST BE A MINIMUM OF 10 FEET FROM A WINDOW, DOOR, OR FLAMMABLE SURFACE AND 2 FEET FROM A THREE HOUR FIRE RESISTANT NON-COMBUSTIBLE STRUCTURE.

   CONSTRUCTION MATERIALS INSPECTION: SPECIFIC MATERIAL MANUFACTURERS HAVE BEEN APPROVED BY CITY LIGHT. PHONE CITY LIGHT INSPECTOR STAN KROHN (206-615-0673) IN ADVANCE OF PURCHASING OR INSTALLING CONSTRUCTION MATERIALS FOR CITY LIGHT APPROVAL OF MANUFACTURERS. USE CITY LIGHT APPROVED CONDUIT MANUFACTURERS ONLY. USE UTILITY VAULT COMPANY FOR POWER FACILITIES. REFER TO SCL MATERIAL STANDARDS 7015.05 AND 7050.05 FOR A LIST OF CITY LIGHT APPROVED CONDUIT MANUFACTURERS. NOTE: MANUFACTURER LIMITATIONS FOR PVC FEMALE ADAPTERS GIVEN ON THE MATERIAL STANDARD.

2. UNDERGROUND DISTRIBUTION SYSTEM CONDUITS:

   CONDUIT DEPTH: OBSERVE SPECIFICATIONS DETAILED IN SCL GUIDELINES U2-10 AND U12-1.4. ALL PRIMARY AND SECONDARY CONDUITS MUST HAVE 36-INCH MIN. COVER IN PUBLIC R-O-W, EASEMENT AREAS AND ON PRIVATE PROPERTY. THE FIELD ENGINEER MUST INSPECT THE CONDUITS BEFORE COVERING.

   CONDUIT, CLEANING: CLEAN, MANDREL THE CONDUIT, INSTALL A PULLING HAND LINE AND INSTALL A MARKING TAPE ACCORDING TO SCL GUIDELINE U2-11.40.

   PRIMARY CONDUIT, STRAIGHT: PROVIDE AND INSTALL 4 INCH PVC SCHEDULE 40 CONDUITS AS SHOWN ON THE PLANS AND PER SCL GUIDELINES U2-10, U2-11 AND U12-1.4. ALL PRIMARY CONDUITS MUST BE IN RED CONCRETE ENCASEMENT.

   PRIMARY CONDUIT, SWEEPS: SHALL BE RIGID STEEL WITH A MINIMUM RADIUS OF 48 INCHES IN TRENCHES.

   SECONDARY CONDUIT, STRAIGHT: PROVIDE AND INSTALL 4 INCH PVC SCHEDULE 40 CONDUITS (EXCEPT AS NOTED) AS SHOWN ON THE PLANS AND PER SCL GUIDELINES U2-10, U2-13.1 AND U12-1.4.

   SECONDARY CONDUIT, SWEEPS: SHALL BE RIGID STEEL WITH A MINIMUM RADIUS OF 48 INCHES IN TRENCHES.

   STREET LIGHTING CONDUIT, STRAIGHT: PROVIDE AND INSTALL 2 INCH PVC SCHEDULE 40 CONDUITS AS SHOWN ON THE PLANS AND PER SCL GUIDELINES U2-10 AND U2-13.1.

   STREET LIGHTING CONDUIT, SWEEPS: SHALL BE RIGID STEEL WITH A MINIMUM RADIUS OF 24 INCHES.

   CONDUIT, END BELLS: CONDUITS ENTERING THE VAULTS/HANDHOLES MUST ENTER PERPENDICULAR TO WALLS. FURNISH AND INSTALL END BELLS FLUSH WITH INTERIOR WALLS ON ALL CONDUITS ENTERING THE VAULTS AND HANDHOLES. THE CONDUITS SHALL BE GROUTED, BOTH INSIDE AND OUTSIDE OF THE VAULTS AND HANDHOLES ACCORDING TO SCL GUIDELINE U2-11 (PAGE 3 OF 5, NOTE 7), AND U2-11 (PAGE 4 OF 5). NO FOREIGN CONDUITS, EITHER FOR POWER OR FOR OTHER PURPOSE, SHALL PASS THROUGH THE VAULT. CONDUITS SHALL ENTER THE VAULT/HANDHOLE NO MORE THAN 18 INCHES HORIZONTALLY FROM THE CORNER, AND CONDUITS ENTERING AT THE SAME CORNER ON ADJACENT WALLS SHALL NOT ENTER AT THE SAME HEIGHT. SEE DETAILS FOR CONDUIT ENTRY LOCATIONS IN VAULTS/HANDHOLES. NOTE: CONDUITS ENTERING STREETLIGHT HANDHOLES WILL BE ENTERING FROM THE BOTTOM.

3. SERVICE CONDUIT:

   CONDUIT DEPTH: CONDUITS MUST HAVE 36 INCH MIN. COVER IN PUBLIC R-O-W, EASEMENT AREAS AND ON PRIVATE PROPERTY.

   SERVICE LATERAL CONDUIT, STRAIGHT: UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER, PROVIDE AND INSTALL THREE-INCH PVC SCHEDULE 40 CONDUITS WHERE SHOWN ON PLANS AND PER SCL GUIDELINES U2-10, U2-13.1 AND U12-1.4.

   STUB SERVICE CONDUITS 5 FEET BEYOND PROPERTY LINE. CAP CONDUITS BEFORE COVERING. MARK THE CAPPED LOCATIONS. ENSURE THAT SERVICE CONDUIT ENTERS EACH LOT ON THE SAME SIDE OF LOT THAT FUTURE METER BASE WILL BE LOCATED.

   SERVICE LATERAL CONDUIT, SWEEPS: SHALL BE RIGID STEEL WITH A MINIMUM RADIUS OF 36 INCHES. A MAX. OF 270 DEGREES OF BENDS IS ALLOWED IN EACH CONDUIT RUN TO EACH BUILDING. EXCEEDING 270 DEGREES OF BENDS MAY REQUIRE THAT A PULLING HANDHOLE BE LOCATED ON THE LOT.

4. PRE-CAST VAULTS

   VAULT GROUNDING: FURNISH AND INSTALL FOUR 5/8" BY 8' COPPERCLAD STEEL GROUND RODS IN EACH CORNER OF THE VAULT, PER U10-7 (PAGE 1, NOTE 6), AND MATERIAL STANDARD 5642.1. NOTE: SCL INSPECTOR MUST APPROVE GROUNDING INSTALLATION BEFORE VAULT WILL BE ACCEPTED FOR SERVICE. SEAL AROUND THE GROUND RODS ACCORDING TO SCL GUIDELINE U10-7, ITEM 6.

   VAULT LOCATION: MAKE SURE THAT THE VAULT LOCATION WILL COMPLY WITH SCL GUIDELINES U2-10, U2-14.1, U2-14.2 AND U10-7. VAULT MUST BE A MINIMUM OF 6 LEVEL FEET FROM ANY SURFACE OBSTRUCTION OR ANY OTHER BELOW GRADE FACILITIES. VAULT COVERS SHALL BE SLIP-RESISTANT LID WITH "SCL" DESIGNATION. VAULTS SHALL BE POSITIONED TO AVOID COLLECTING SURFACE WATER. NOTE: POSITION VAULTS SO THAT THE LID(S) OPENS A FULL 180 DEGREES. DO NOT SET VAULTS IN AN AREA SUBJECT TO VEHICLE TRAFFIC.

   - VAULT HATCH MUST BE A MIN. OF 10 FEET FROM A WINDOW, DOOR OR FLAMMABLE SURFACE.
   - VAULT HATCH MUST BE A MIN. OF 2 FEET FROM A 3 HOUR FIRE RESISTANT, NON-COMBUSTIBLE STRUCTURE.
   - VAULT HATCH MUST BE LOCATED TO AVOID COLLECTING SURFACE WATER.
   - VAULT MUST BE A MIN. OF 3 FEET FROM BUILDING FOOTING.
   - VAULT MUST HAVE A MIN. OF 5 FEET OF NO STREETLIGHT POLE OBSTRUCTION FOR SCL CREW WORKING CLEARANCE.
   - VAULT MUST BE A MIN. OF 10 FEET FROM THE TREES.
   - VAULT CANNOT BE INSTALLED IF GRADE EXCEEDS 5.6% IN ANY DIRECTION.
   - DO NOT SET VAULTS IN AN AREA SUBJECT TO VEHICLE TRAFFIC

   VAULTS
   - PROVIDE & INSTALL VAULTS PER SIZE & TYPE AS INDICATED, AT LOCATION, AS SHOWN ON VAULT & HANDHOLE DETAIL & SITE PLAN (UTILITY VAULT CO.) AT FINISHED GRADE LEVEL.
   - USE INDICATED PRODUCT NUMBERS AS SHOWN ON VAULT & HANDHOLE DETAIL TO ORDER VAULTS REQUIRED PARTS. NOTE: INSTALL COVER'S VENTED SIDE IN PLANTING STRIP.
   - SEAL VAULTS PER U2-14.2.

5. PRECAST HANDHOLES

   HANDHOLE LOCATIONS: LOCATE HANDHOLES PER SIZE & TYPE AT THE INDICATED LOCATIONS AS SHOWN BY THE ENGINEER ON THE MARKED PLANS AND ACCORDING TO SCL GUIDELINES U2-10, U2-13.1, U2-14.1 AND U2-14.2. NOTE: POSITION HANDHOLES SO THAT THE LID(S) OPENS A FULL 180 DEGREES. DO NOT SET HANDHOLES IN AN AREA SUBJECT TO VEHICLE TRAFFIC.

   - HANDHOLES MUST BE A MIN. OF 5 FEET FROM TREES & 6 FEET FROM VAULT.
   - HANDHOLE MUST BE EASILY ACCESSIBLE & NOT HIDDEN AMONG PLANNED LANDSCAPING THAT WILL OBSCURE IT OVER TIME.
   - HANDHOLE MUST BE LOCATED TO AVOID SURFACE WATER.
   - DO NOT SET HANDHOLES IN AN AREA SUBJECT TO VEHICLE TRAFFIC.

   HANDHOLE GROUNDING
   - FURNISH AND INSTALL TWO 5/8" BY 8', COPPERCLAD STEEL GROUND RODS IN OPPOSITE CORNERS OF THE HANDHOLE, PER U10-7 & MAT'L STD 5642.1.
   - SEAL AROUND GROUND RODS PER SCL GUIDELINE U10-7, ITEM 6.
   - SCL INSPECTOR MUST APPROVE GROUNDING INSTALLATION BEFORE HANDHOLE WILL BE ACCEPTED FOR SERVICE.

6. WHERE SHOWN ON DRAWINGS, PROVIDE AND INSTALL 444-LA AND 233-LA SECONDARY HANDHOLES WITH SLIP RESISTANT LID, "SCL" DESIGNATION, H20 TRAFFIC RATED COVERS, 44-332P AND 23-2436P, RESPECTIVELY (UTILITY VAULT CO.) AT FINISHED GRADE LEVEL, PER SEATTLE CITY LIGHT GUIDELINES U2-13.1, U2-14.1, AND U2-14.2 OR AS APPROVED BY SEATTLE CITY LIGHT.

7. PULLING HANDHOLE H-06: WHERE SHOWN ON DRAWING, PROVIDE AND INSTALL 17"x28"x24" HANDHOLE (UTILITY VAULT CO, 17"x28"x12" HANDHOLE WITH COVER AND 12" HANDHOLE EXTENSION) AT LOCATION AS SHOWN AND AT FINISHED GRADE LEVEL PER U2-13.1.

8. WHERE SHOWN ON DRAWINGS, PROVIDE AND INSTALL 577-LDA (UTILITY VAULT CO.) PRECAST JUNCTION/XFMR VAULTS AND 577-LA PRECAST PRIMARY XFMR VAULTS, WITH H20 TRAFFIC RATED, SLIP RESISTANT COVERS 57TL-2-332GV (UTILITY VAULT CO.) AT FINISHED GRADE LEVEL, PER SEATTLE CITY LIGHT GUIDELINES U2-10, U2-14.1, U2-14.2 AND U10-7, OR AS APPROVED BY SEATTLE CITY LIGHT. ORIENT VAULTS AS SHOWN ON PLANS.

9. STREET LIGHT / PEDESTRIAN LIGHT HANDHOLES:

   HANHOLES
   - PROVIDE & INSTALL HANDHOLES PER U2-13.1, AT FINISHED GRADE LEVEL & AT LOCATION AS SHOWN ON LIGHTING PLAN & SITE PLAN.
   - PROVIDE & INSTALL 17" X 28" X 12" HANDHOLE (UTILITY VAULT CO., 17" X 28" X 12" PRECAST HANDHOLE WITH COVER).
   - PROVIDE A SLIP RESISTANT LID.
   - POSITION HANDHOLE SO THAT LIDS OPENS A FULL 180 DEGREES.
   - STREETLIGHT HANDHOLE MUST BE A MIN. OF 6 FEET FRO VAULT.
   - HANDHOLE MUST BE EASILY ACCESSIBLE & NOT HIDDEN AMONG PLANNED LANDSCAPING THAT WILL OBSCURE IT OVER TIME.
   - HANDHOLE MUST BE LOCATED TO AVOID COLLECTING SURFACE WATER.
   - DO NOT SET HANDHOLES IN AN AREA SUBJECT TO VEHICLE TRAFFIC.

   HANDHOLES GROUNDING
   - FURNISH & INSTALL ONE 5/8" BY 8' COPPERCLAD STEEL ROD, PER 0233.05 & MAT'L STD 5642.1.
   - SEAL AROUND GROUND RODS PER SCL GUIDELINE U10-7, ITEM 6.
   - SCL INSPECTOR MUST APPROVE GROUNDING INSTALLATION BEFORE HANDHOLE WILL BE ACCEPTED FOR SERVICE.

10. STREET LIGHT / PEDESTRIAN LIGHT POLES:
    - PROVIDE & INSTALL STREET LIGHT POLE & SUPPORT ARM ACCORDING TO CONSTRUCTION GUIDELINES SL10-2 & SL10-5 AND MATERIAL STANDARDS 5705.2 & 5739.8.
    - STREET LIGHT/PEDESTRIAN LIGHT FOUNDATION MUST BE A MIN. 5 FEET FROM VAULT/HANDHOLE.

SERVICES:

CUSTOMER'S SERVICE WILL BE 120/240 VOLTS, 1-PHASE, 3-WIRE TO LOTS. LEGAL SERVICE TERMINATION POINT WILL BE AT FUTURE METER BASE OF EACH BUILDING. FAULT DUTY FOR EACH SERVICE WILL BE DETERMINED AT THE TIME SCL RECEIVES THE REQUEST FOR SERVICE FOR EACH BUILDING.

COMCAST GENERAL NOTES

1. COMCAST HANDHOLES, VAULTS, LIDS AND CONDUITS SHALL BE INSTALLED IN ACCORDANCE TO SCL CONSTRUCTION GUIDELINES, UNLESS OTHERWISE NOTED ON THE PLANS OR REQUIRED BY COMCAST INSPECTORS.

2. ALL COMCAST CONDUITS SHALL BE CLEANED, MANDRELLED AND INCLUDE A PULL STRING PER COMCAST REQUIREMENTS.

3. CONTRACTOR SHALL CONTACT JERRY STEELE AT (253) 288-7532 WITH MINIMUM ONE WEEK ADVANCE NOTICE TO COORDINATE REQUIRED INSPECTION AND AS-BUILT OF INSTALLED COMCAST SYSTEM.

PSE GENERAL NOTES

1. INSTALLATION OF PIPING FOR GAS MAINS, SERVICE VALVES AND CONNECTION TO EXISTING GAS MAINS WILL BE BY PSE. CONTRACTOR SHALL CONTACT PSE/PILCHUCK CONTRACTORS TO COORDINATE SCHEDULE FOR DELIVERY OF MATERIALS AND INSTALLATION OF PSE SYSTEM.

2. CONTRACTOR SHALL COORDINATE TRENCHING AND BACKFILL OF TRENCH WITH PSE FOR INSTALLATION OF GAS MAINS AND SERVICES WITH A MINIMUM OF ONE WEEK ADVANCE NOTICE. PSE CONTACT: LISA GRIFFITH @ (206) 418-4229

3. CONTRACTOR SHALL CONTACT PSE/PILCHUCK CONTRACTORS FOR ANY REQUIRED INSPECTIONS AND AS-BUILT RECORDING OF THE PSE SYSTEM, WITH MINIMUM ONE WEEK ADVANCE NOTICE.

ABBREVIATIONS:

BOC	BACK OF CURB
BOV	BOTTOM OF VAULT
CIC	CABLE IN CONDUIT
E	EAST
EX./EXIST.	EXISTING
FOC	FACE OF CURB
HH	HAND HOLE
LTG	LIGHTING
MIN	MINIMUM
N	NORTH
PL	PROPERTY LINE
PRI	PRIMARY
PROP.	PROPOSED
ROW	RIGHT OF WAY
S	SOUTH
SCL	SEATTLE CITY LIGHT
SEC	SECONDARY
SL	STREET LIGHT
STA	STATION
SVC	SERVICE
SW	SIDEWALK
TOV	TOP OF VAULT
TYP	TYPICAL
W	WEST

LEGEND

- PROPERTY LINE / ROW
- CENTERLINE
- E—— CAP/STUB
- COMCAST CABLE VAULT
- SCL POWER HANDHOLE
- SCL POWER VAULT
- SCL POWER VAULT
- SCL DUCT BANK
- COMM. DUCT BANK
- SCL/COMM. SERVICE CONDUIT(S)
- G GAS MAIN AND SERVICES INSTALLED BY PSE

NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY TAD, BJB | DESIGNED BY BJB
CHECKED BY JCG | APPROVED BY MAV
DATE 2020
J O B No. : 1600206

Call 811 two business days before you dig

S C A L E: AS NOTED

kpff
1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com

Greenbridge
King County Housing Authority

MARK A. VEH STATE OF WASHINGTON 24711 REGISTERED PROFESSIONAL ENGINEER PRELIMINARY

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

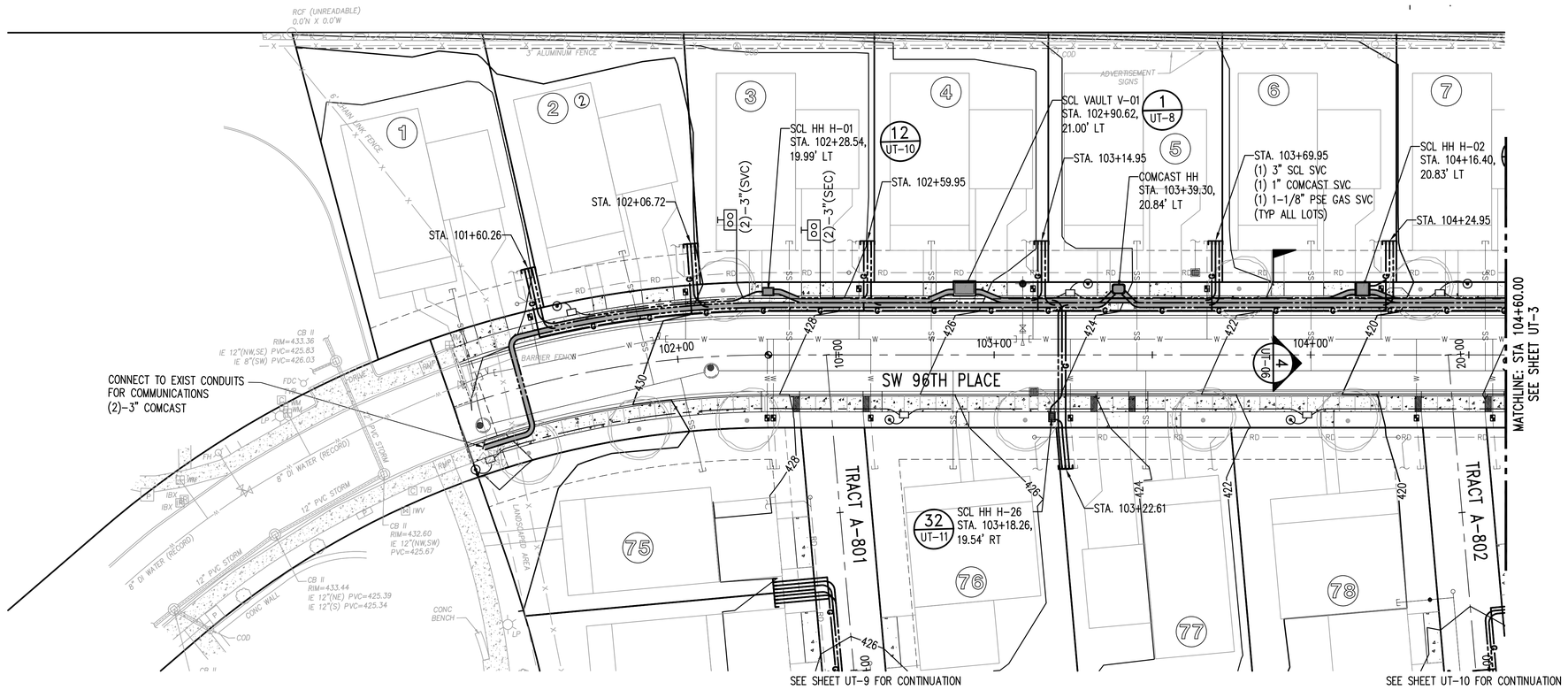
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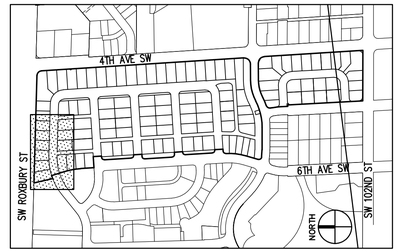
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SHEET
UT-1

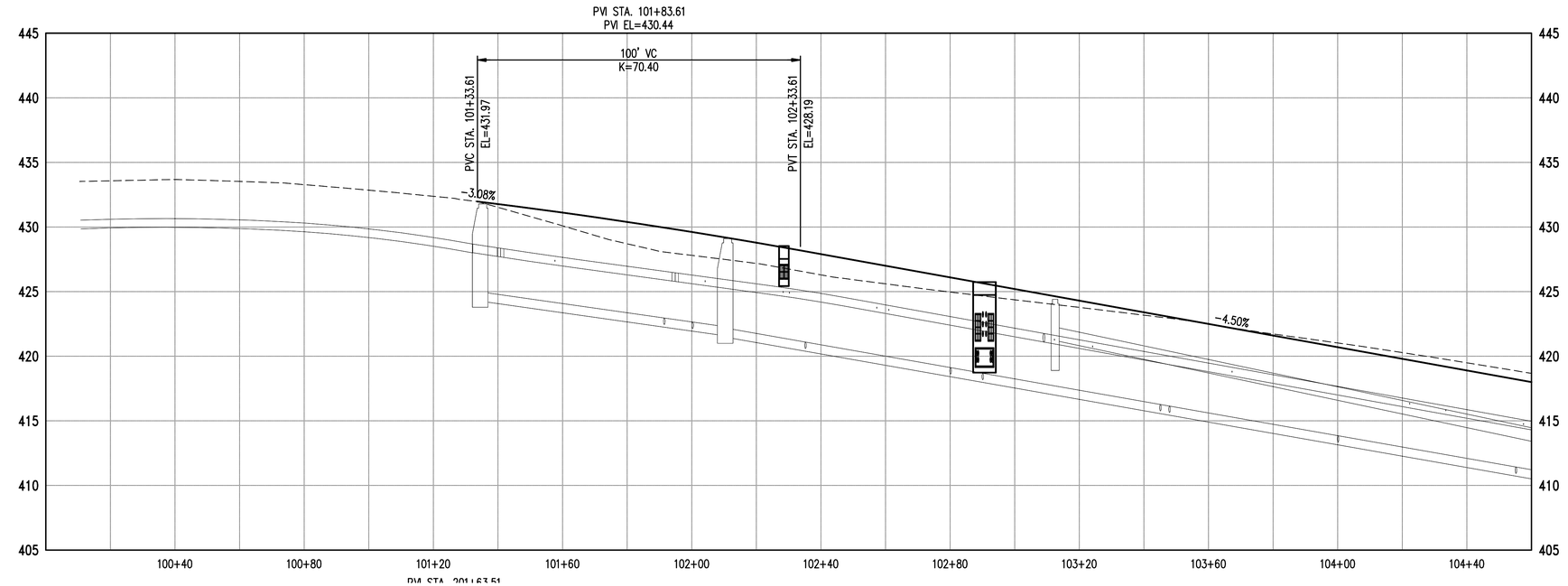
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Apr 01, 2020 - 3:47pm BrentB

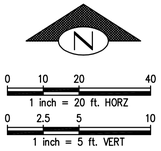
SEC. 6, T.23 N., R.4E., W.M.





KEY MAP
NTS





NO.	DATE	BY	CHD.	APPR.	REVISION

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DATE: 2020
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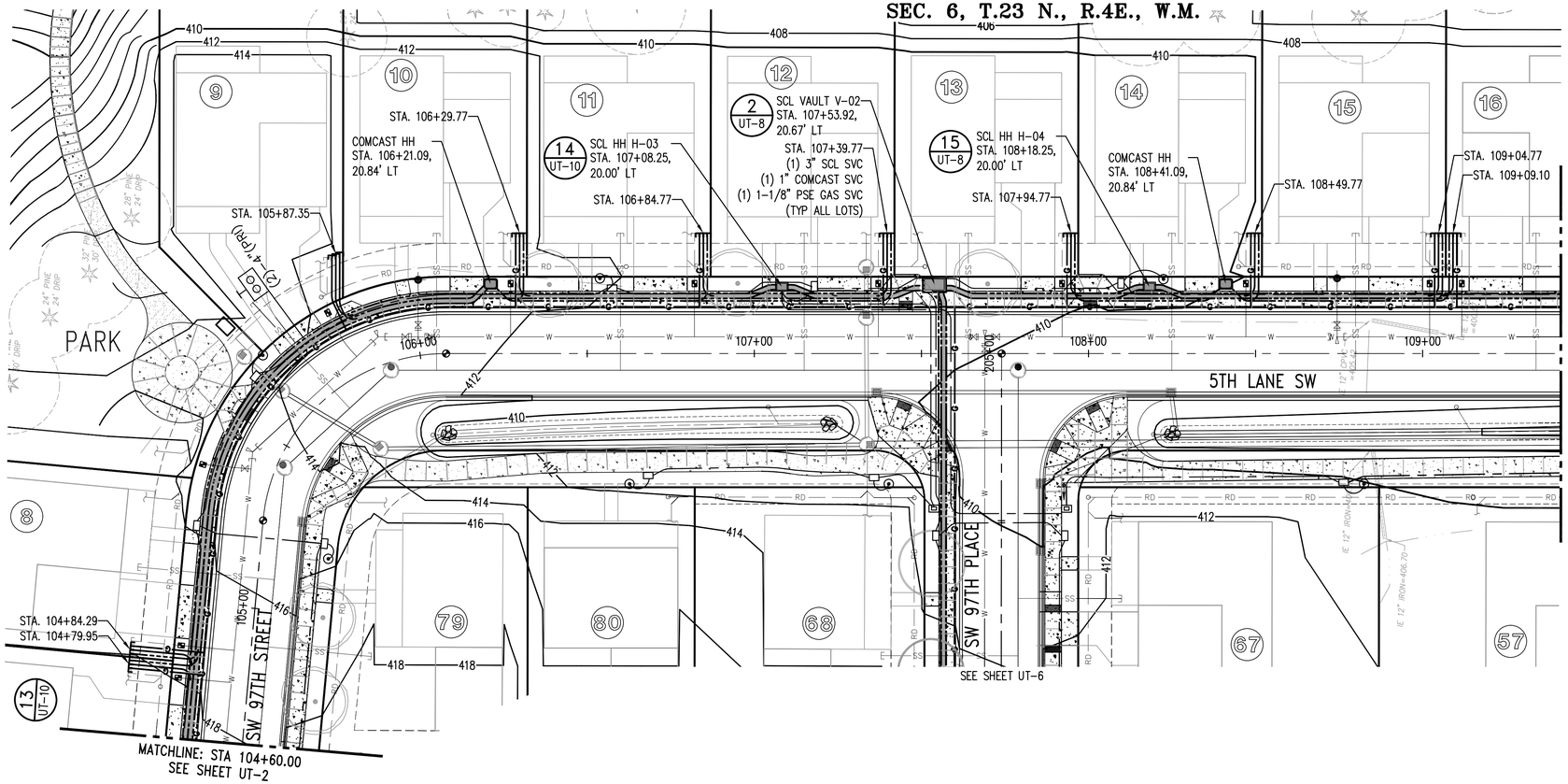
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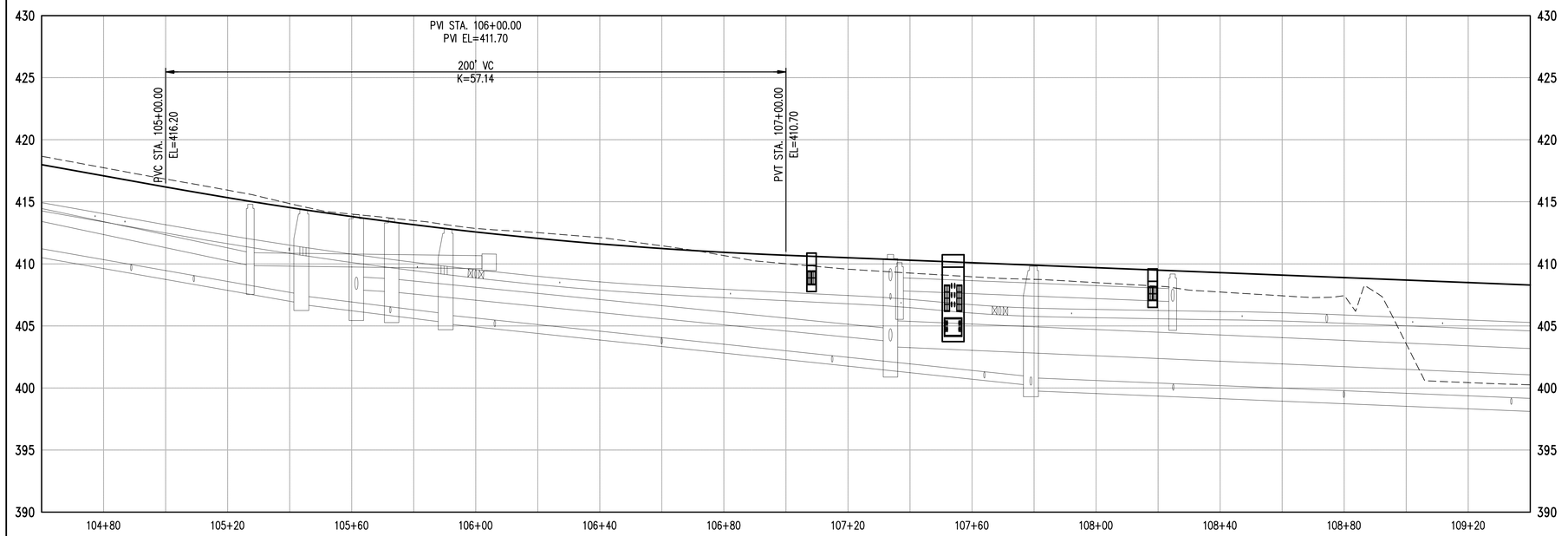
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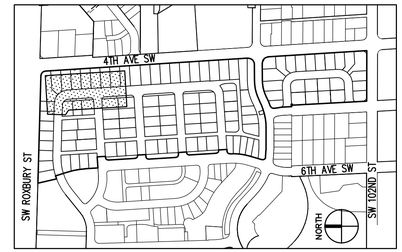
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UT-2

Apr 02, 2020 - 12:45pm BrianB
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SEC. 6, T.23 N., R.4E., W.M.







KEY MAP
NTS

0 10 20 40
1 inch = 20 ft. HORZ
0 2.5 5 10
1 inch = 5 ft. VERT

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Apr 28, 2020 - 5:55pm BrianB

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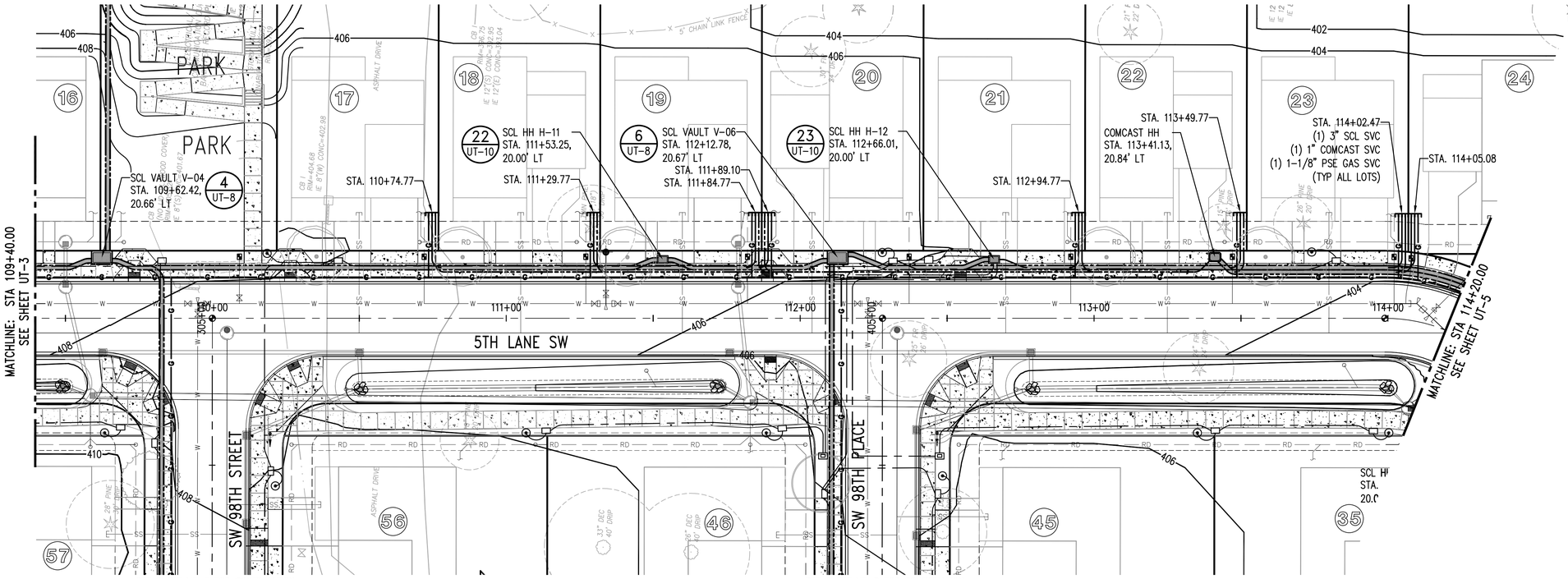
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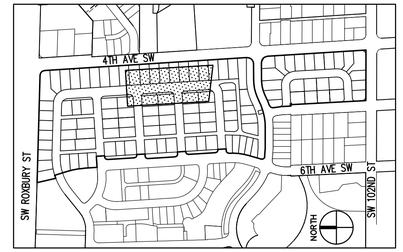
GREENBRIDGE DIVISION 8

5TH AVENUE SW PLAN AND PROFILE

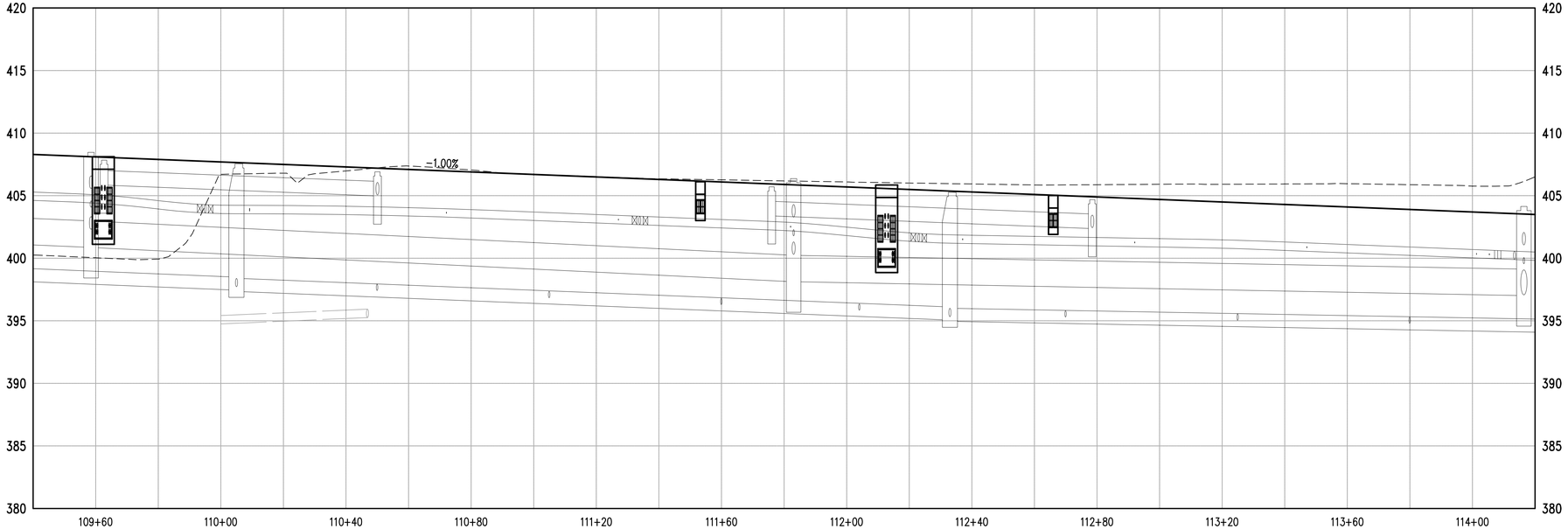
SHEET
UT-3

SEC. 6, T.23 N., R.4E., W.M.





KEY MAP
NTS



N

0 10 20 40
1 inch = 20 ft. HORZ

0 2.5 5 10
1 inch = 5 ft. VERT

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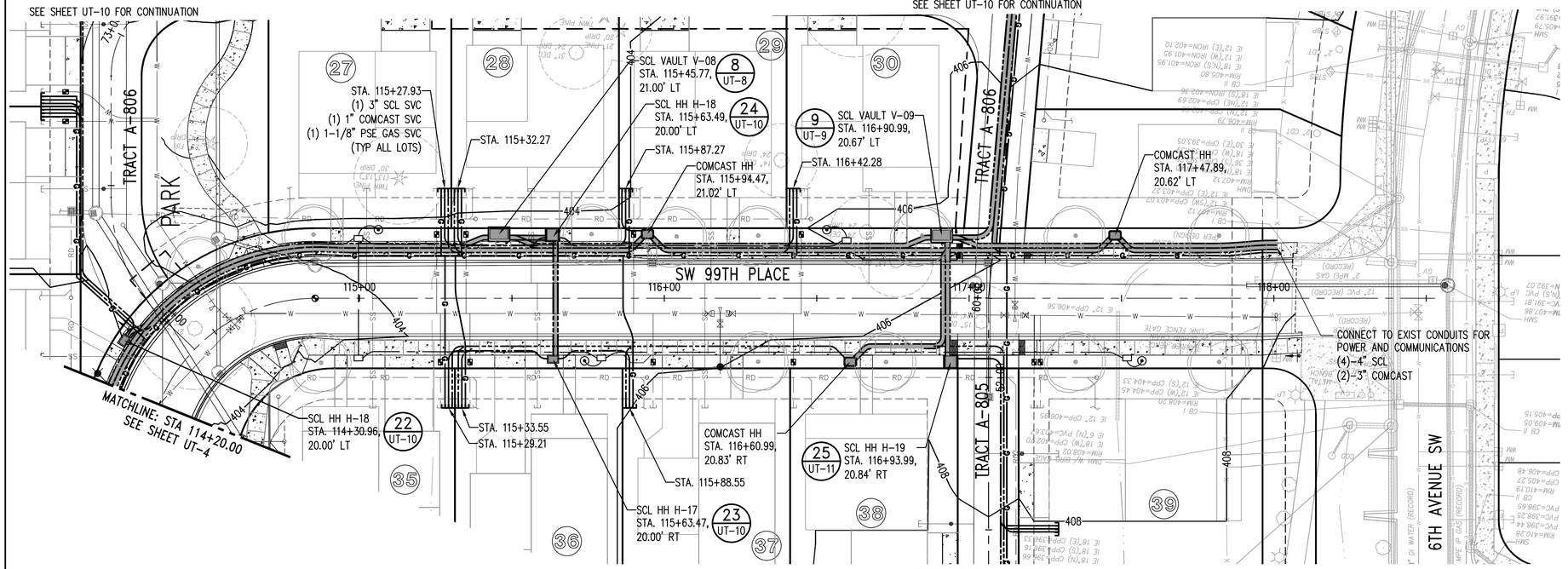
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WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
5TH AVENUE SW PLAN AND PROFILE

SHEET
UT-4

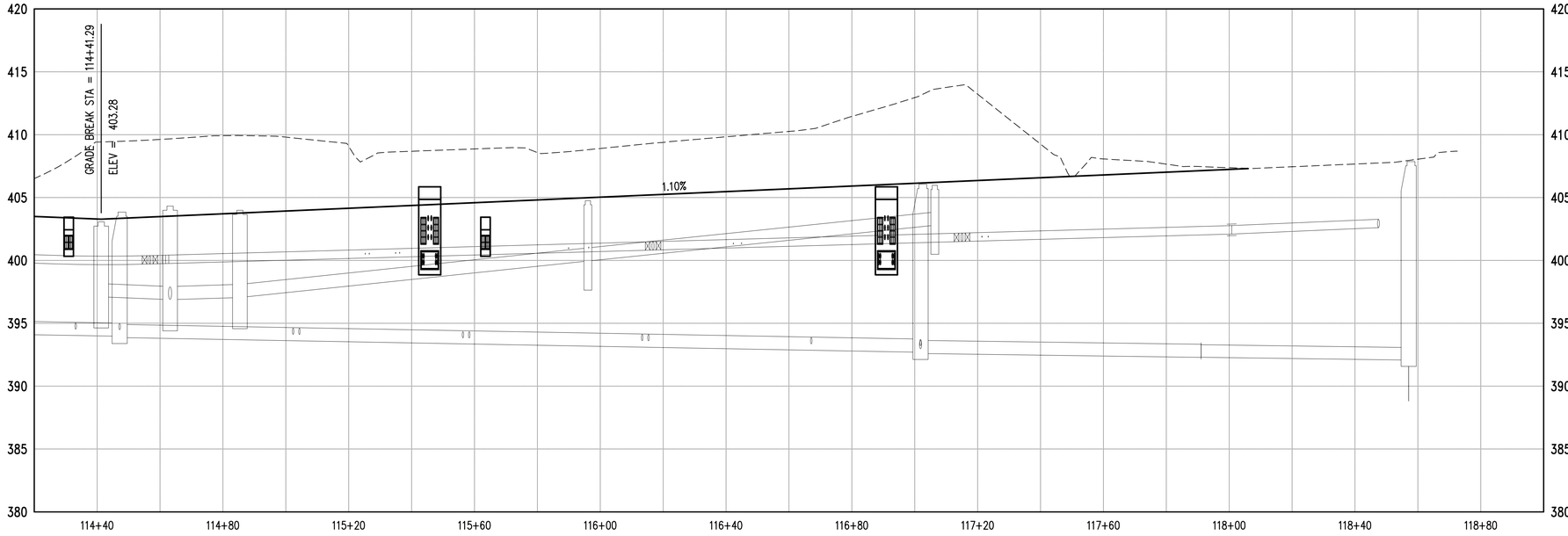
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Apr 02, 2020 - 10:44am BrantB

SEC. 6, T.23 N., R.4E., W.M.





KEY MAP
NTS





0 10 20 40
1 inch = 20 ft. HORZ

0 2.5 5 10
1 inch = 5 ft. VERT

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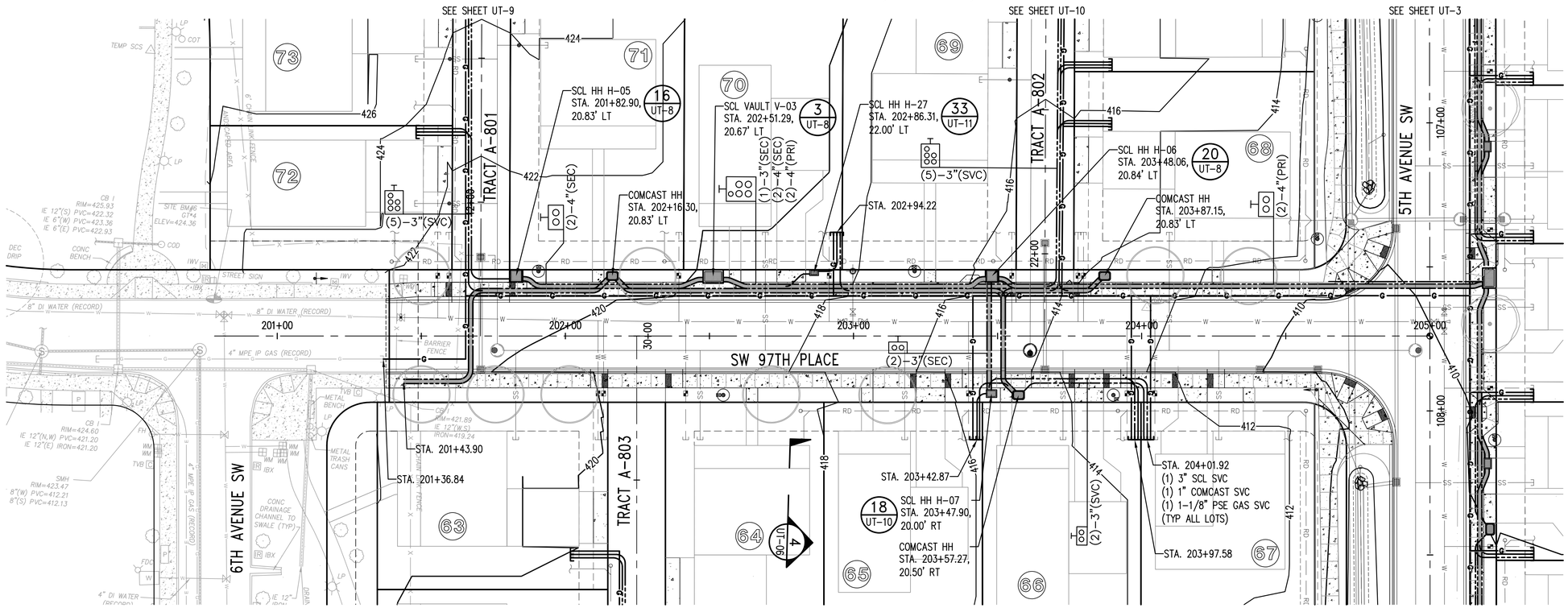
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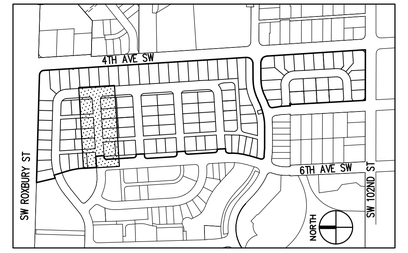
SW 99TH PLACE PLAN AND PROFILE

SHEET
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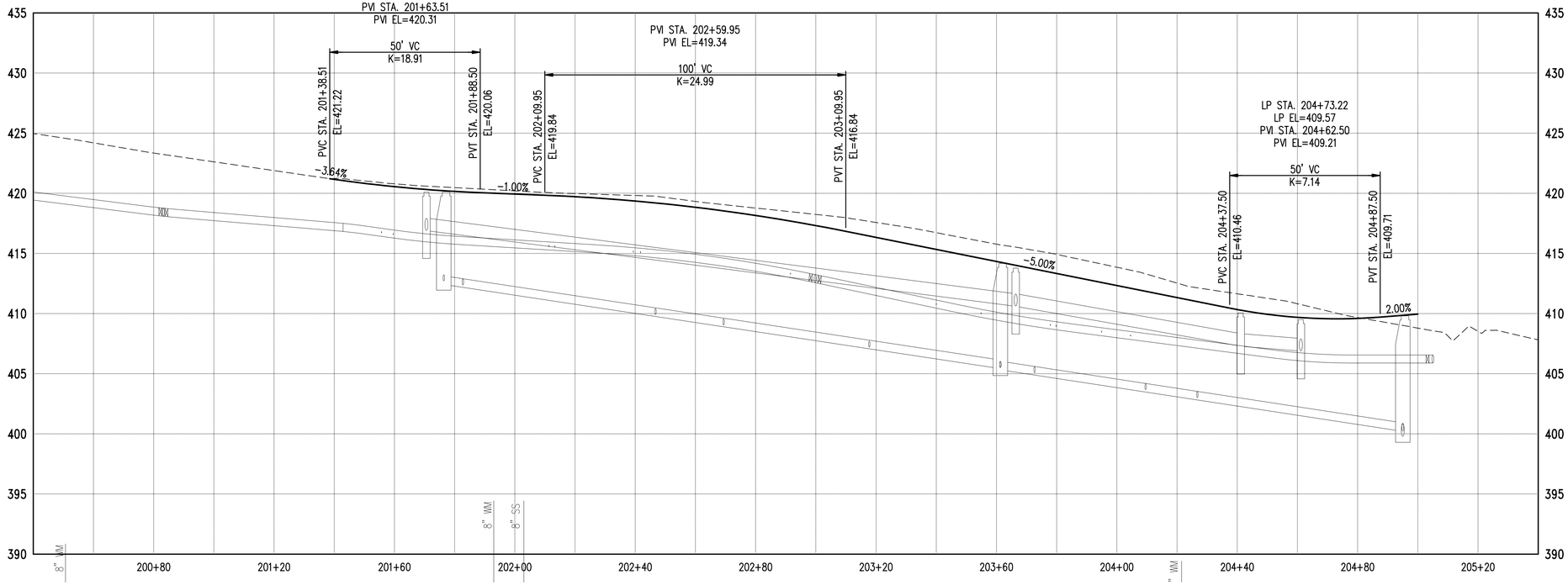
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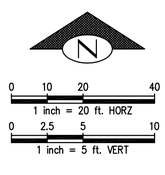
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KEY MAP
NTS





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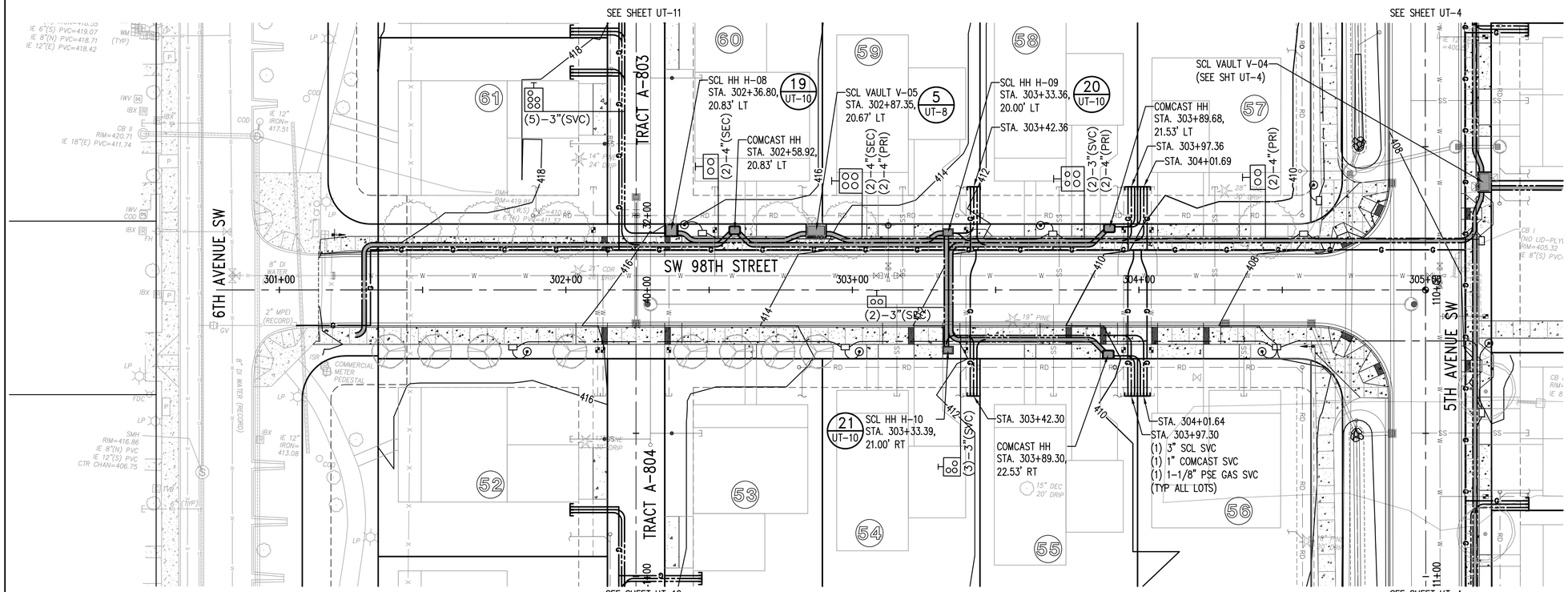
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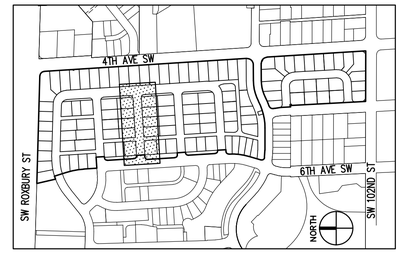
SW 97TH PLACE PLAN AND PROFILE

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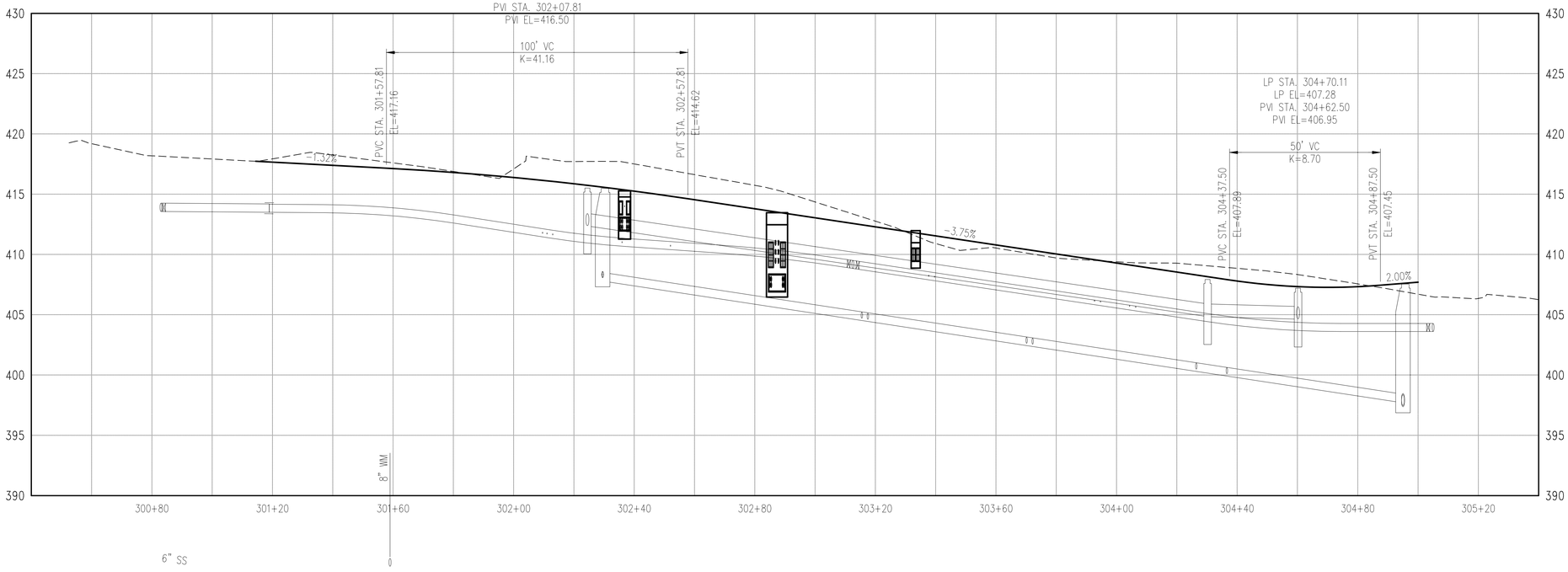
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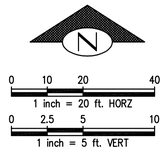
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KEY MAP
NTS





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DATE 2020
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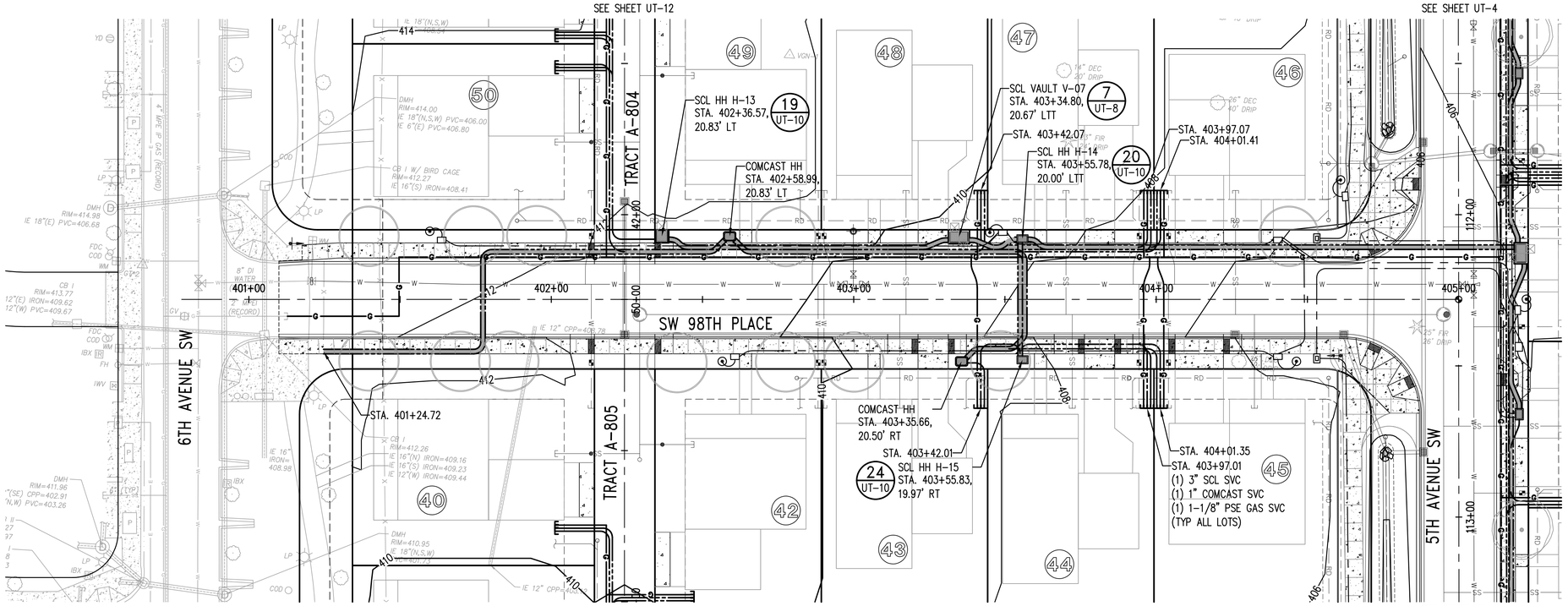
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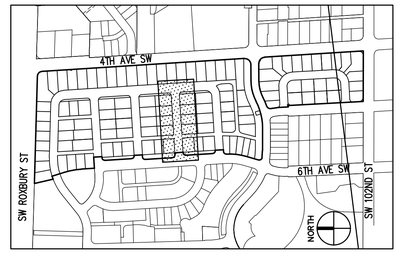
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SHEET
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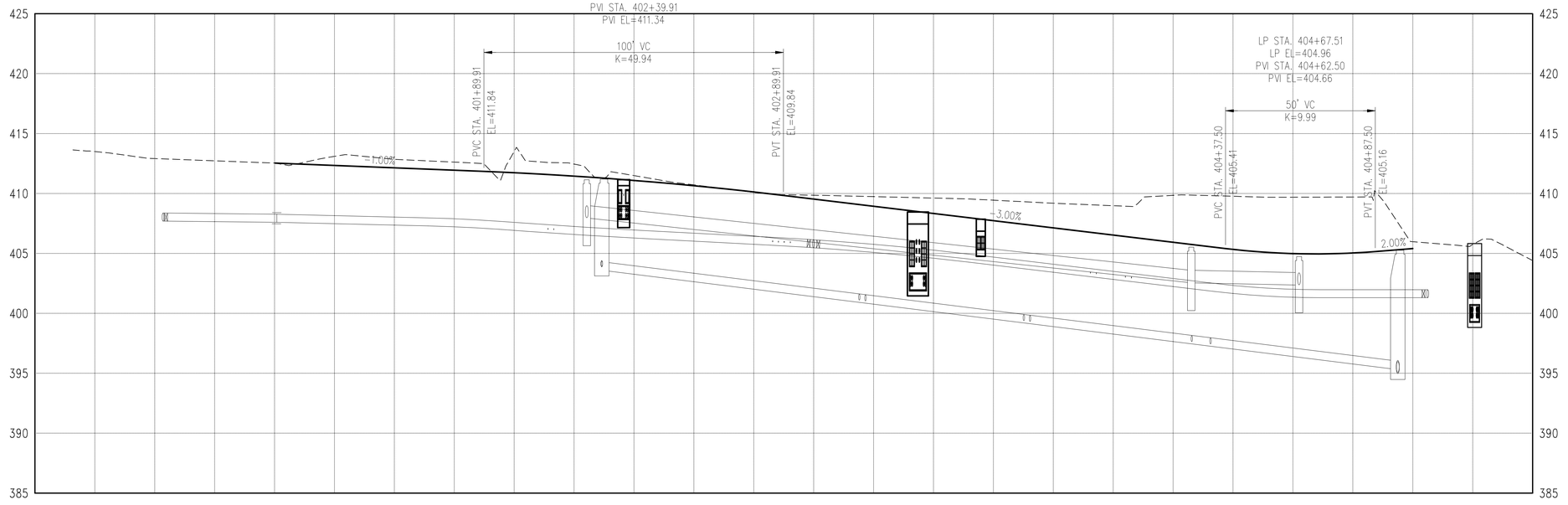
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Apr 02, 2020 - 10:47am BrentB

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KEY MAP
NTS



0 10 20 40
1 inch = 20 ft. HORZ
0 2.5 5 10
1 inch = 5 ft. VERT

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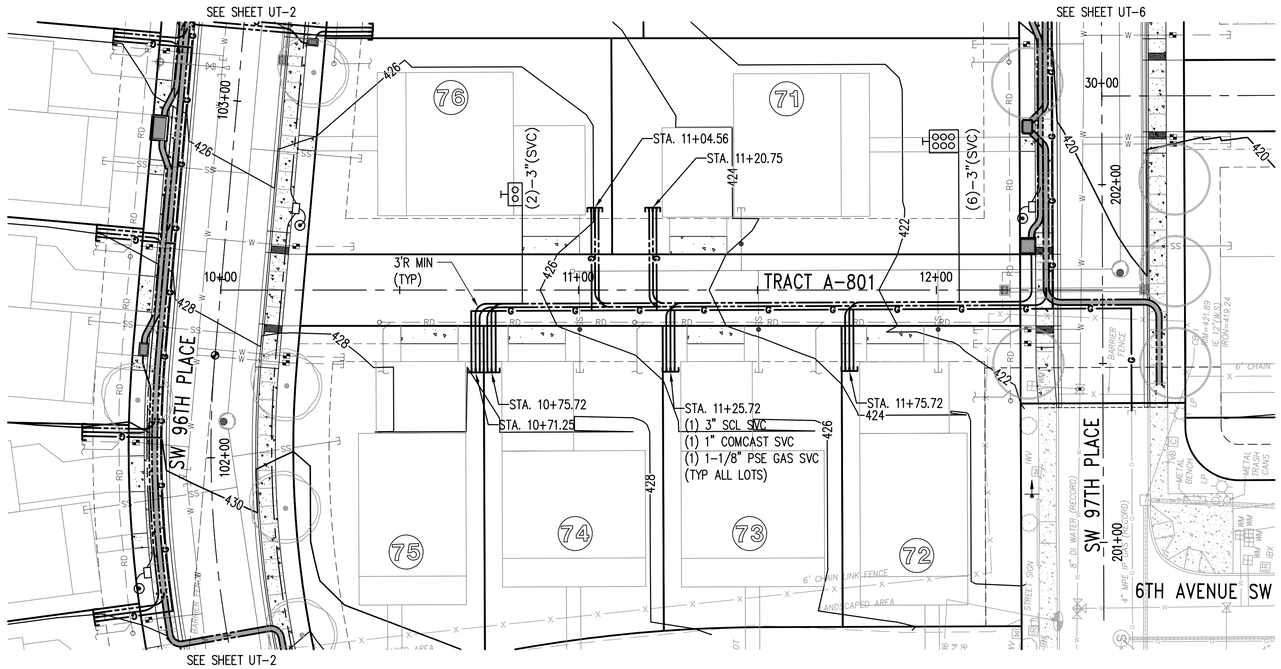
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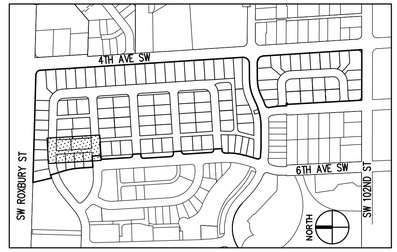
SW 98TH PLACE PLAN AND PROFILE

SHEET
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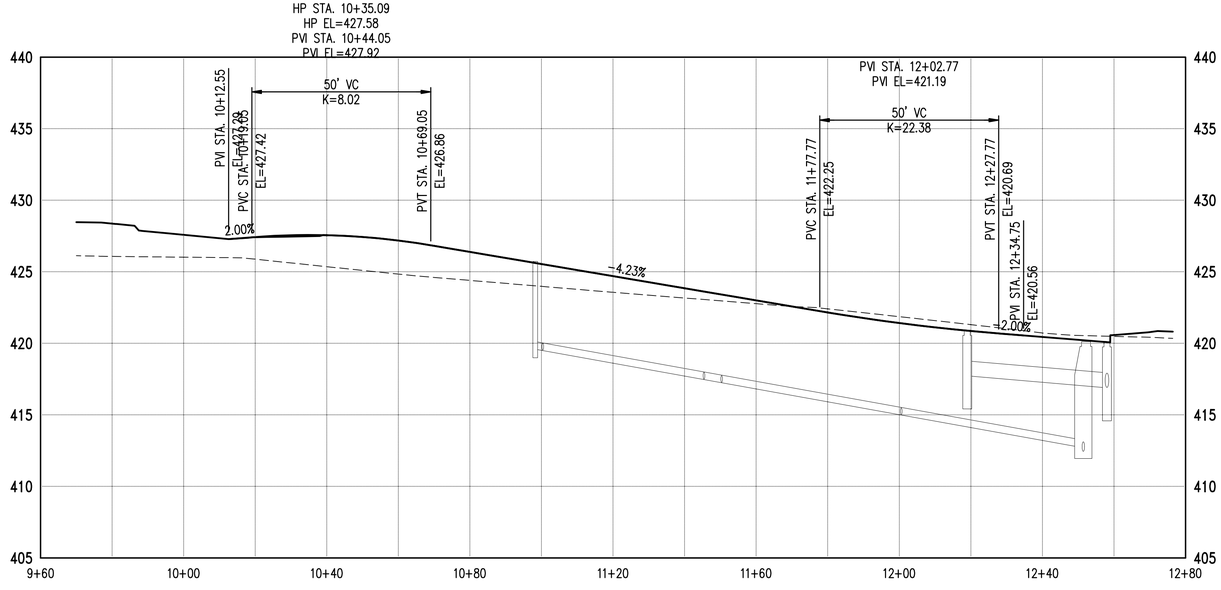
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SEC. 6, T.23 N., R.4E., W.M.





KEY MAP
NTS





0 10 20 40
1 inch = 20 ft. HORZ
0 2.5 5 10
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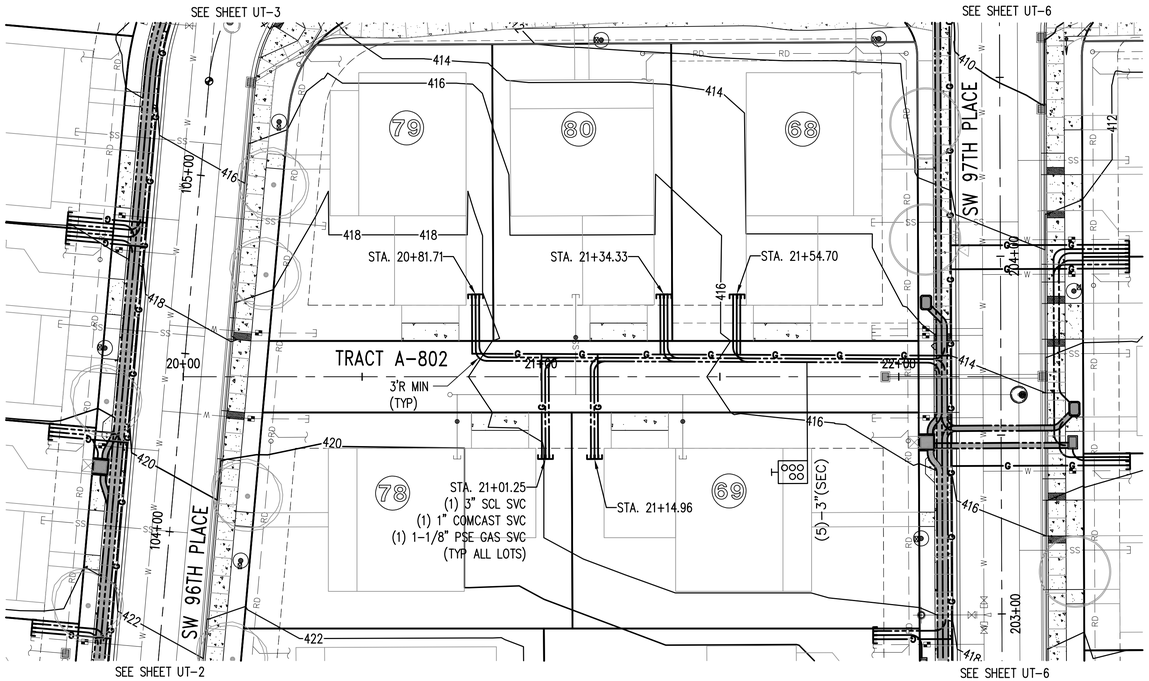
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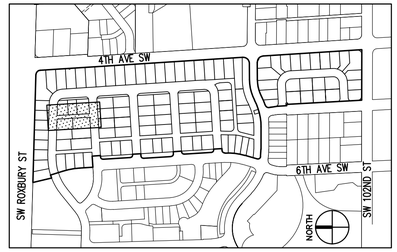
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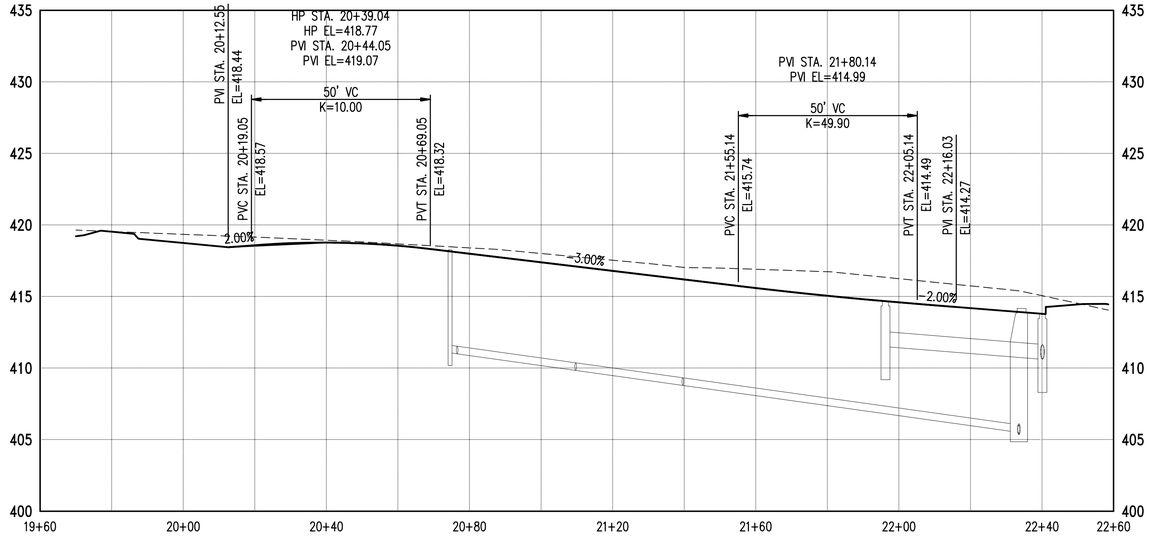
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KEY MAP
NTS





0 10 20 40
1 inch = 20 ft. HORZ

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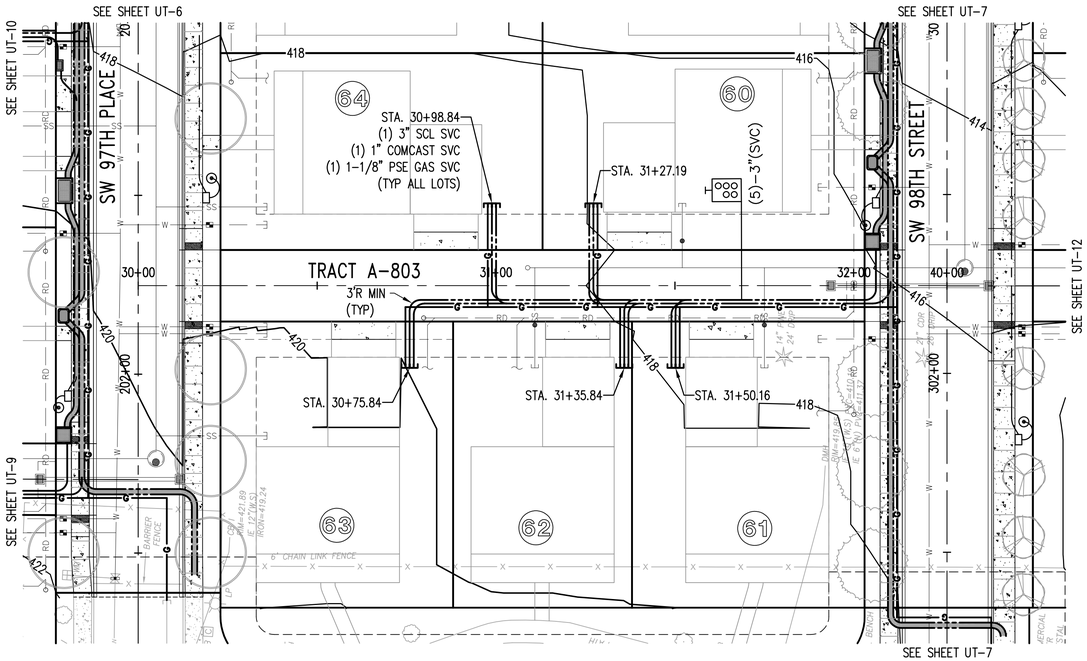
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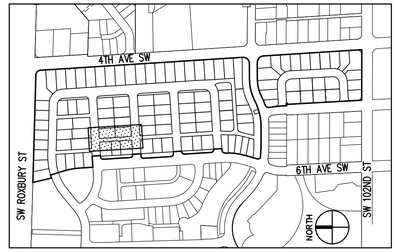
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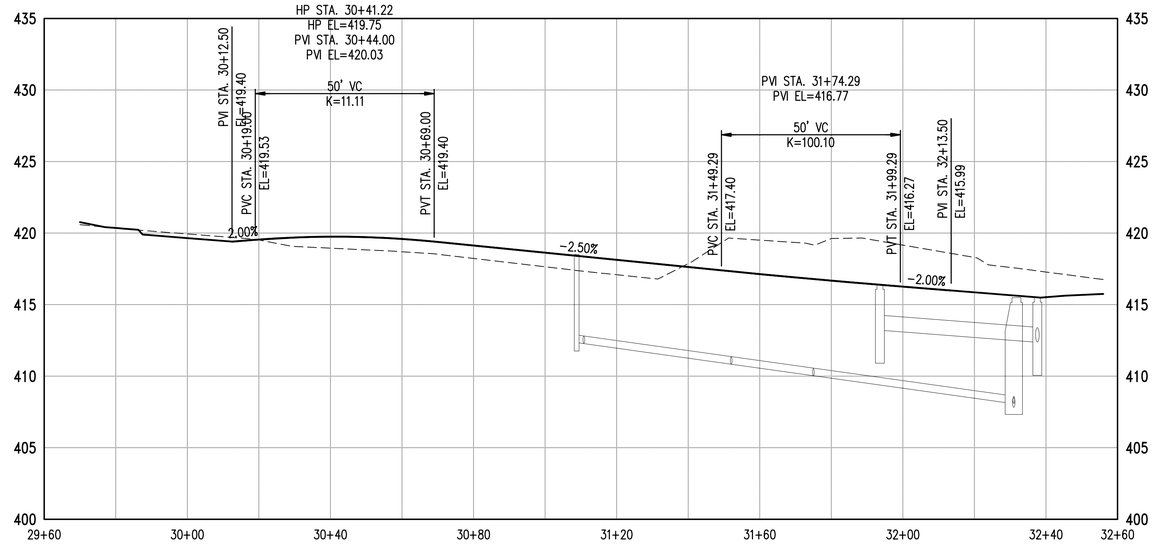
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KEY MAP
NTS





0 10 20 40
1 inch = 20 ft. HORZ
0 2.5 5 10
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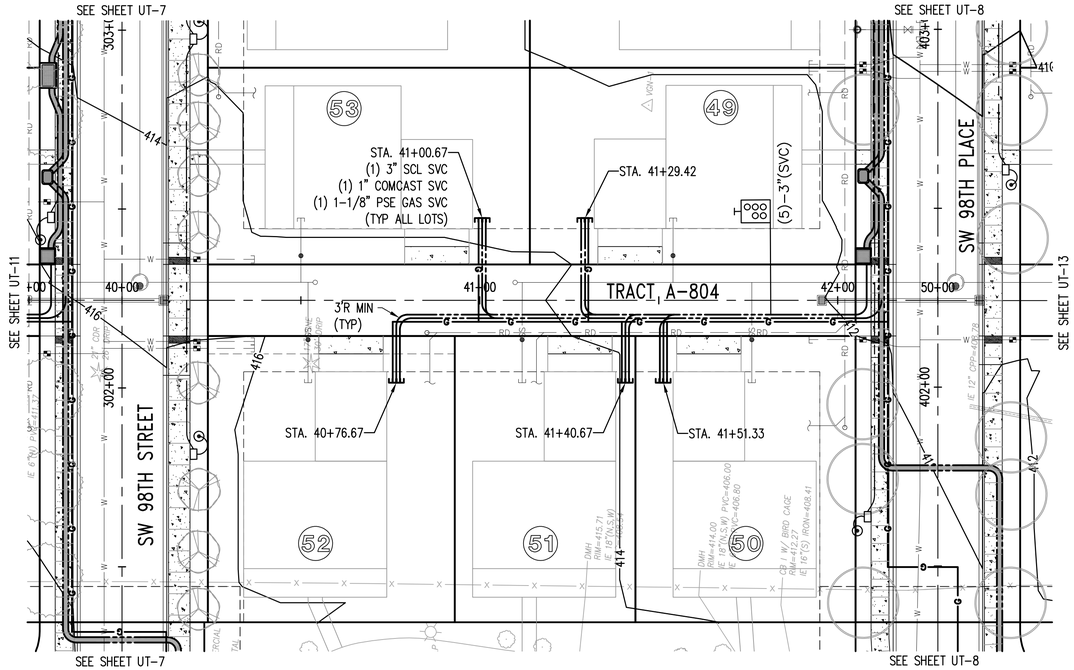
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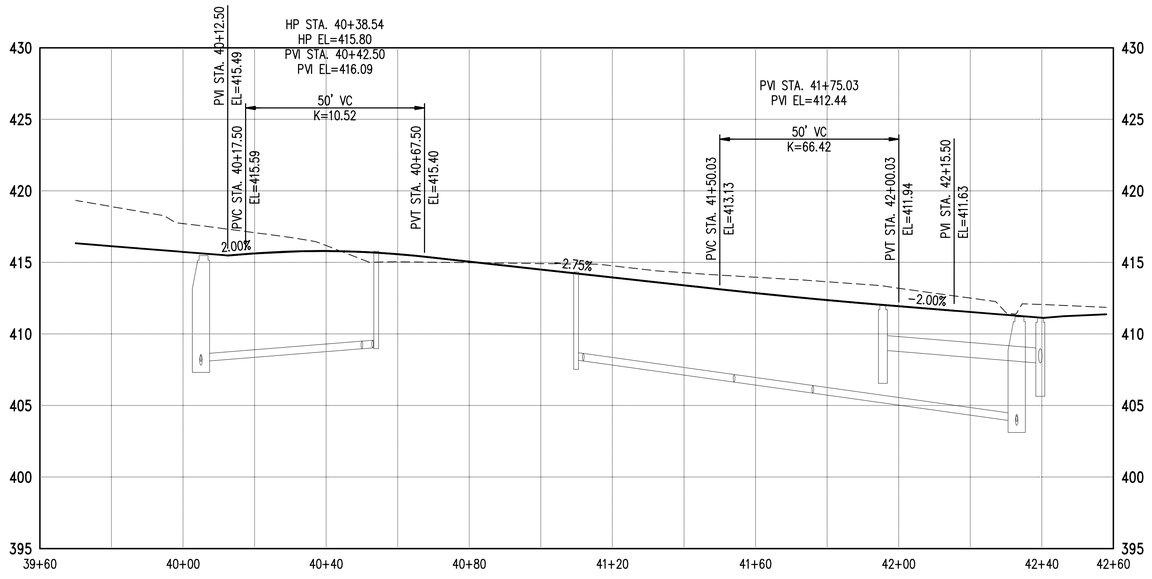
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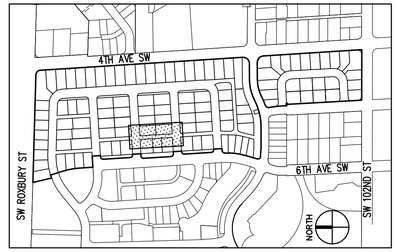
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UT-11

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Apr 02, 2020 - 9:27am BrianB

SEC. 6, T.23 N., R.4E., W.M.







KEY MAP
NTS

N

0 10 20 40
1 inch = 20 ft. HORZ
0 2.5 5 10
1 inch = 5 ft. VERT

NO.	DATE	BY	CHD.	APPR.	REVISION

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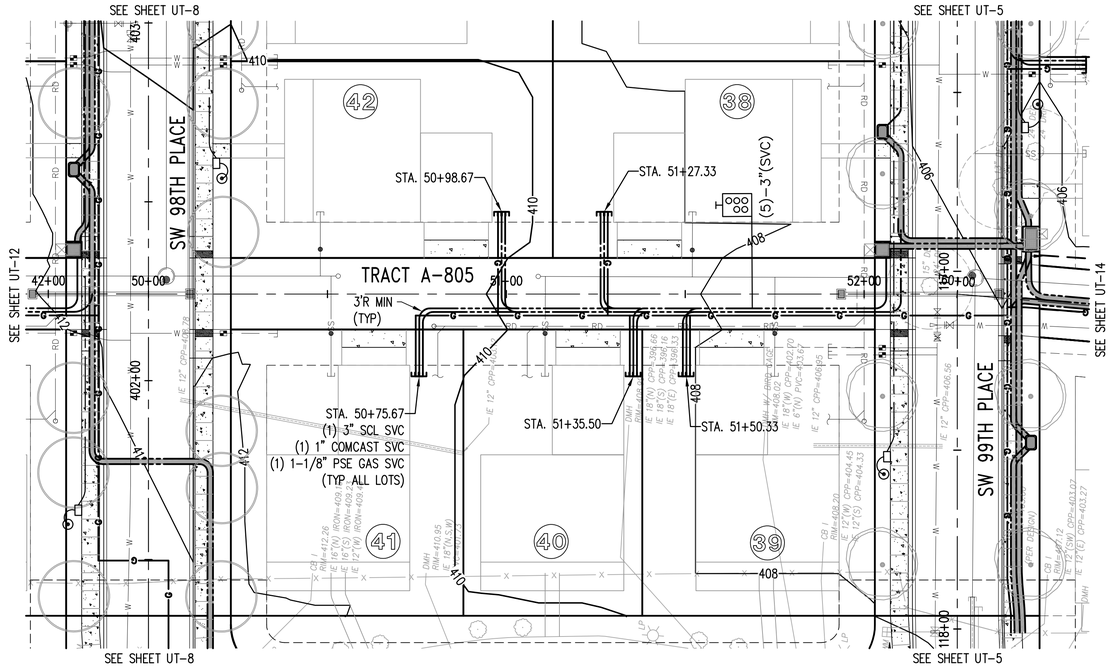
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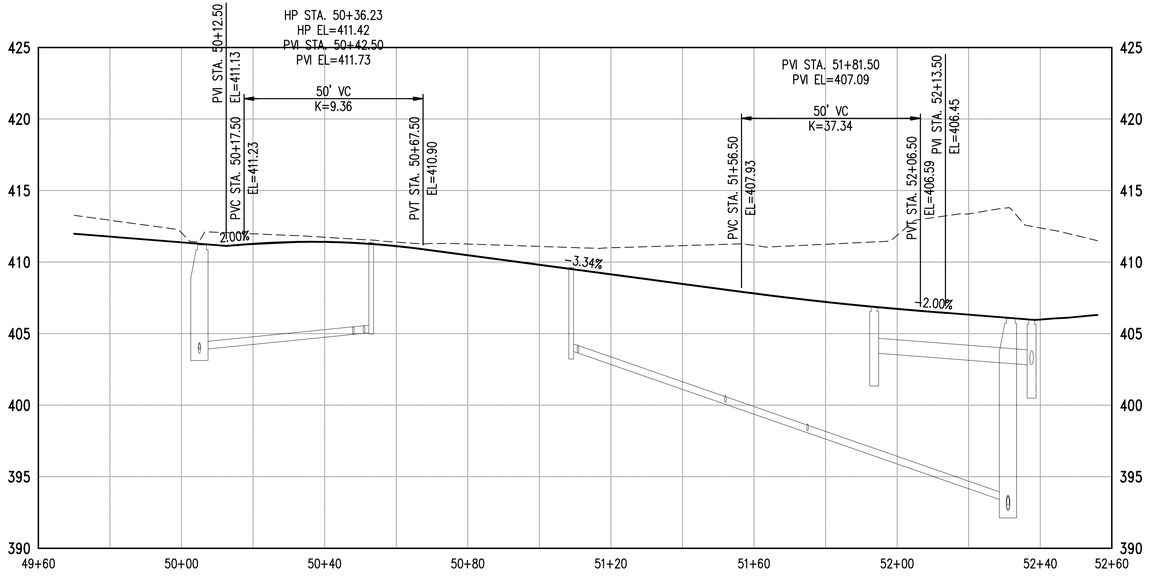
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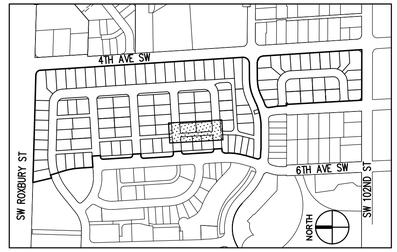
SHEET
UT-12

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SEC. 6, T.23 N., R.4E., W.M.







KEY MAP
NTS

N

0 10 20 40
1 inch = 20 ft. HORZ
0 2.5 5 10
1 inch = 5 ft. VERT

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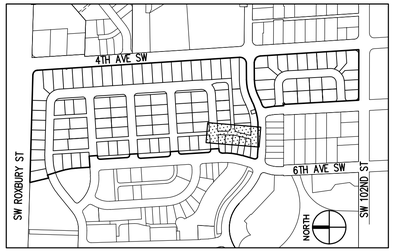
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SHEET
UT-13

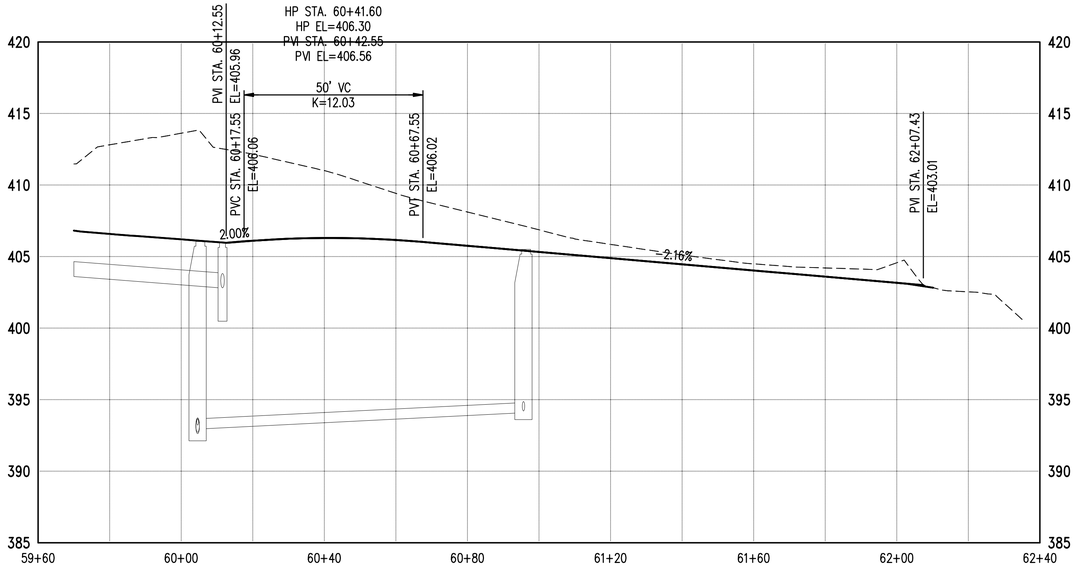
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Apr 02, 2020 - 9:55am BrianB

SEC. 6, T.23 N., R.4E., W.M.





KEY MAP
NTS



N

0 10 20 40
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0 2.5 5 10
1 inch = 5 ft. VERT

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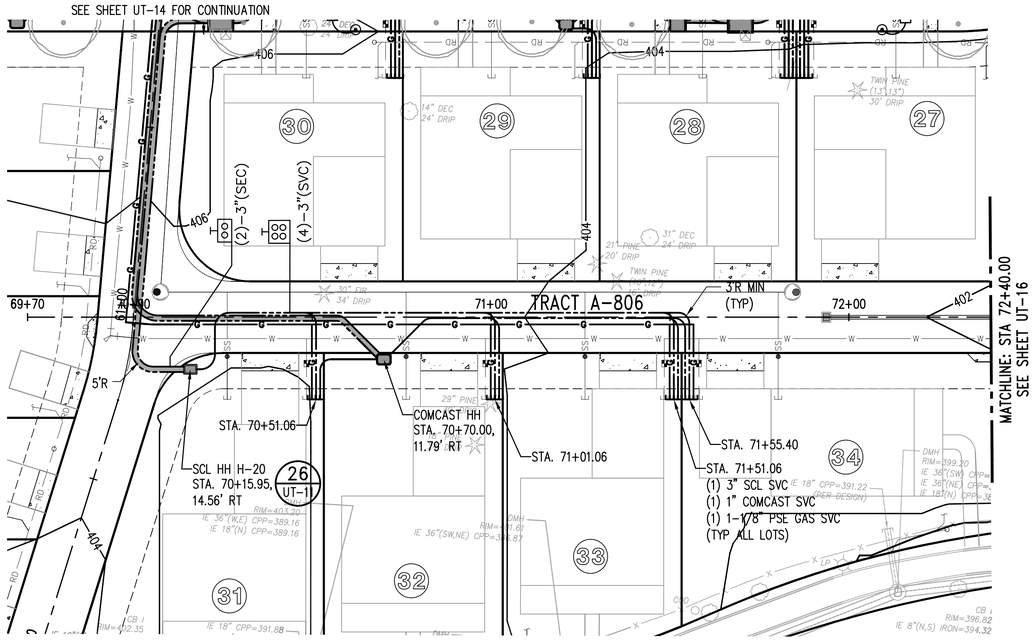
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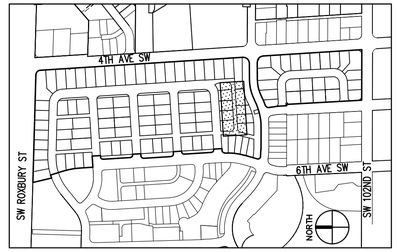
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SHEET
UT-14

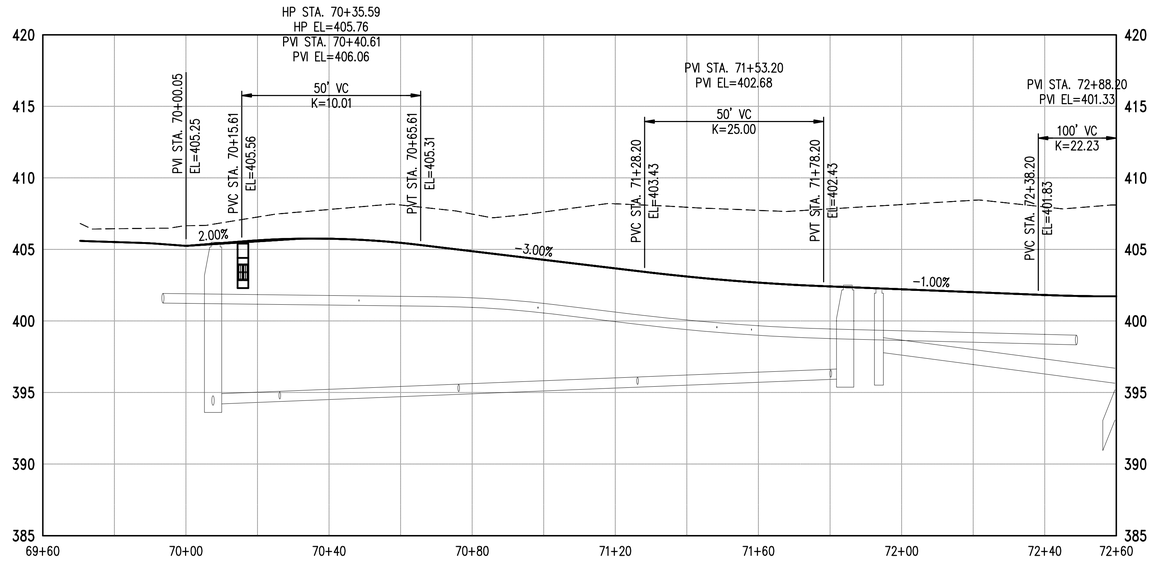
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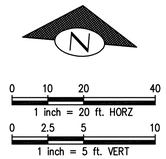
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KEY MAP
NTS





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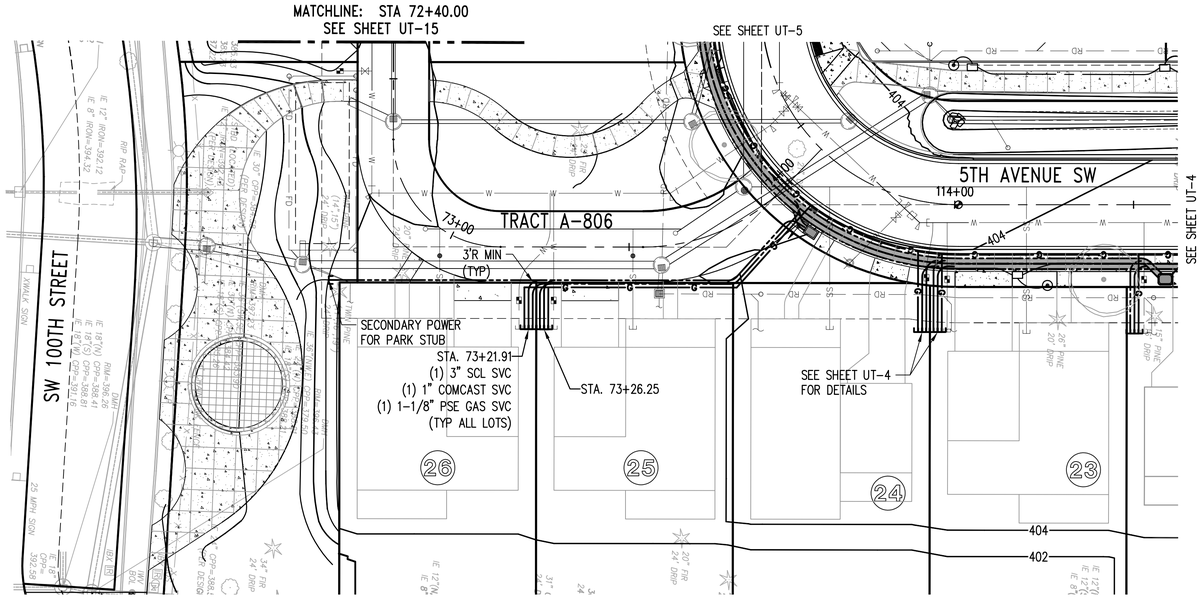
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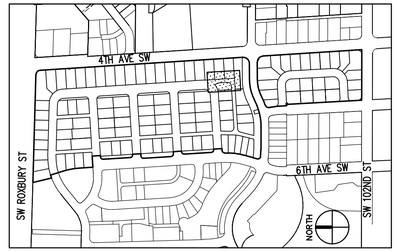
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SHEET
UT-15

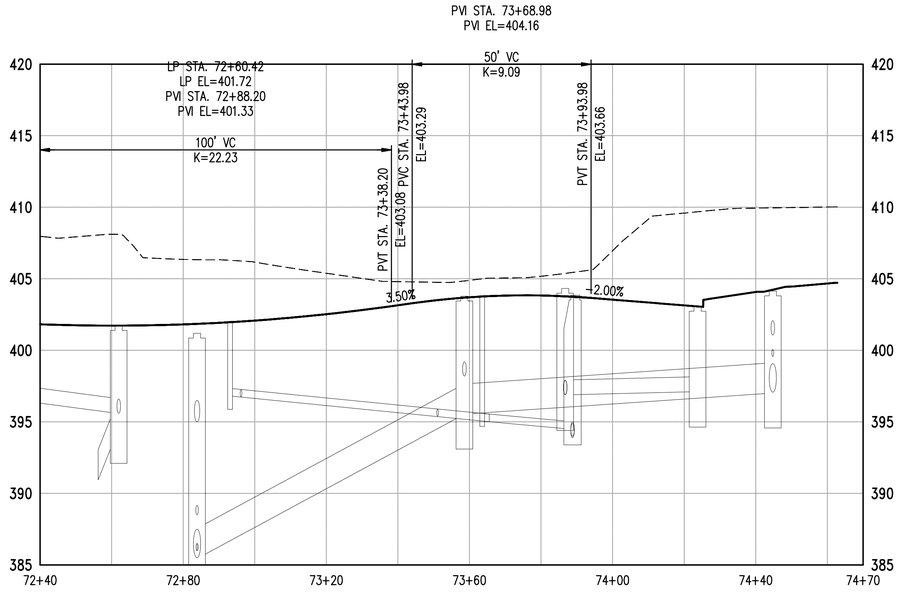
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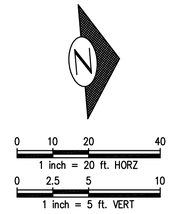
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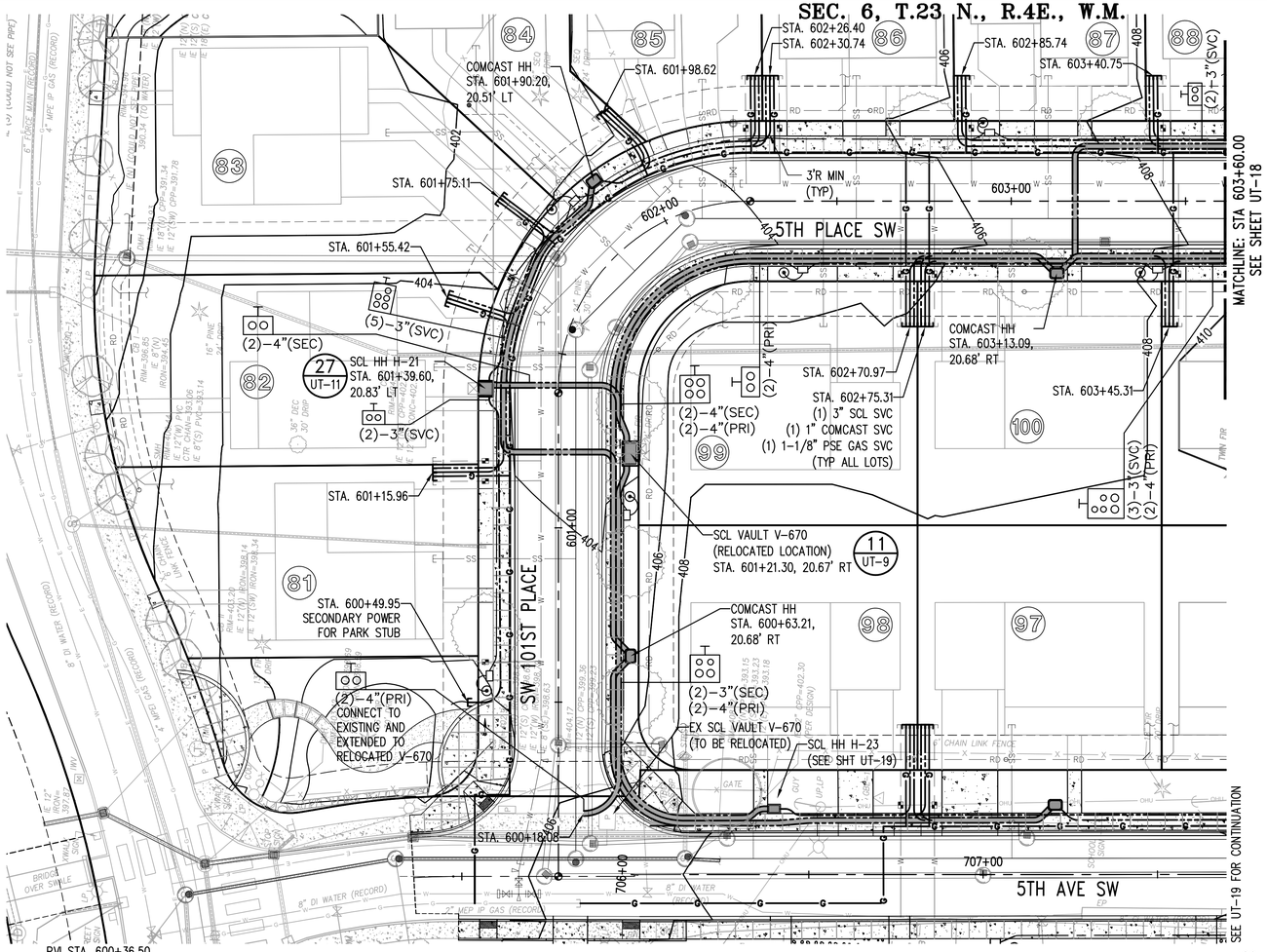
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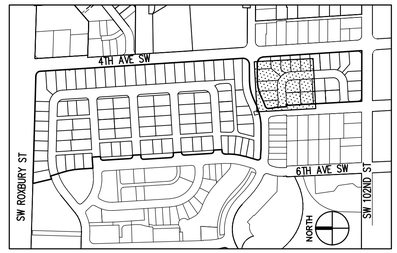
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SHEET
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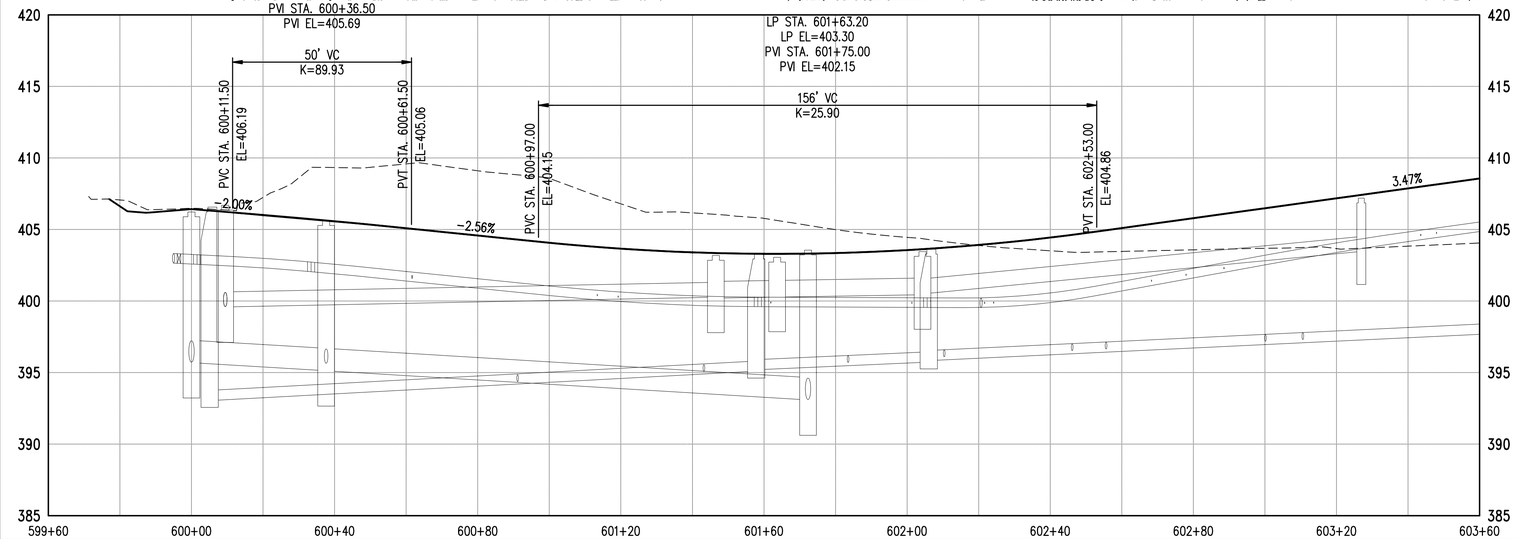
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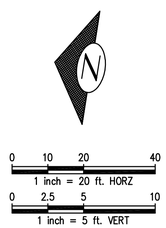
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KEY MAP
NTS





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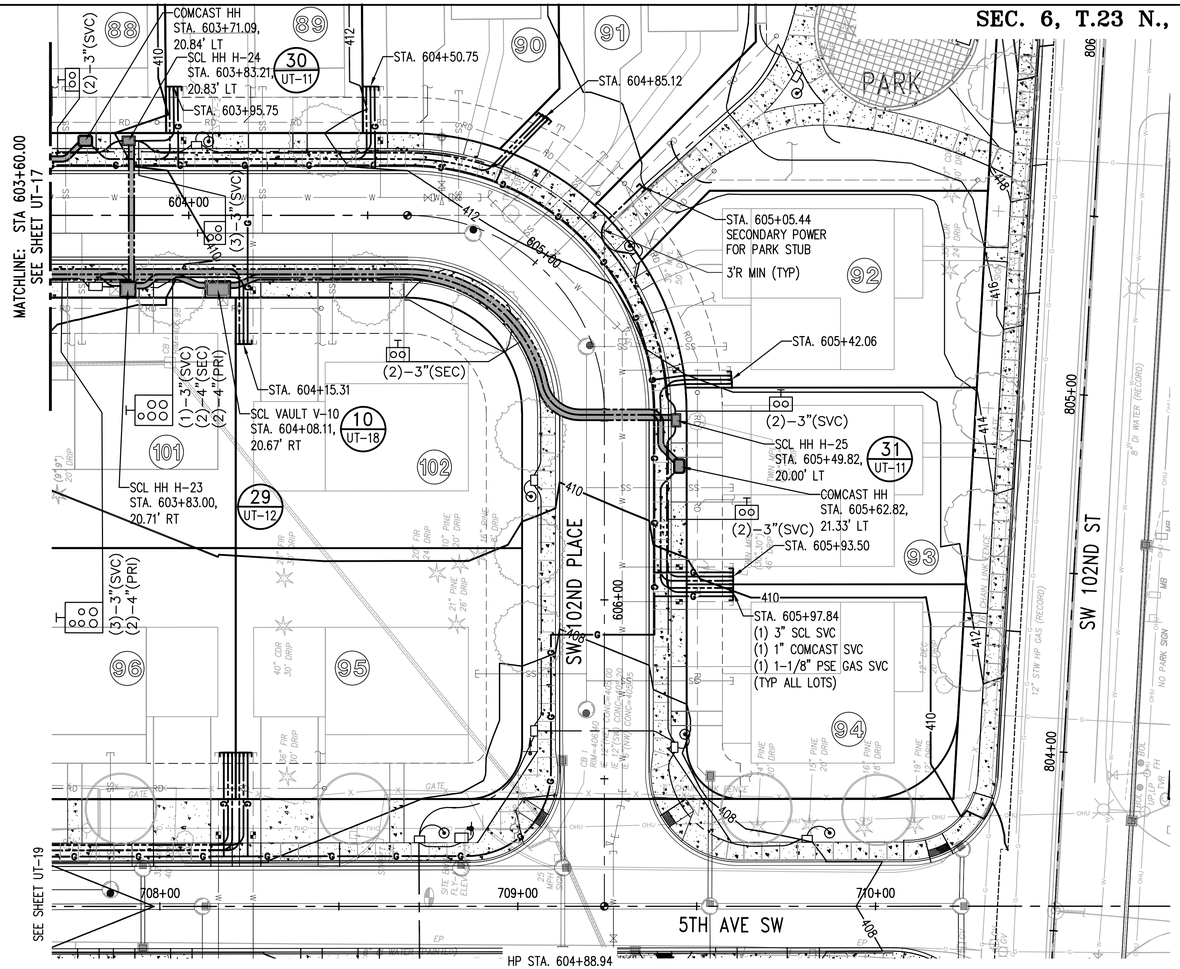
GREENBRIDGE DIVISION 8

SW 101ST PLACE AND 5TH PLACE SW PLAN AND PROFILE

SHEET
UT-17

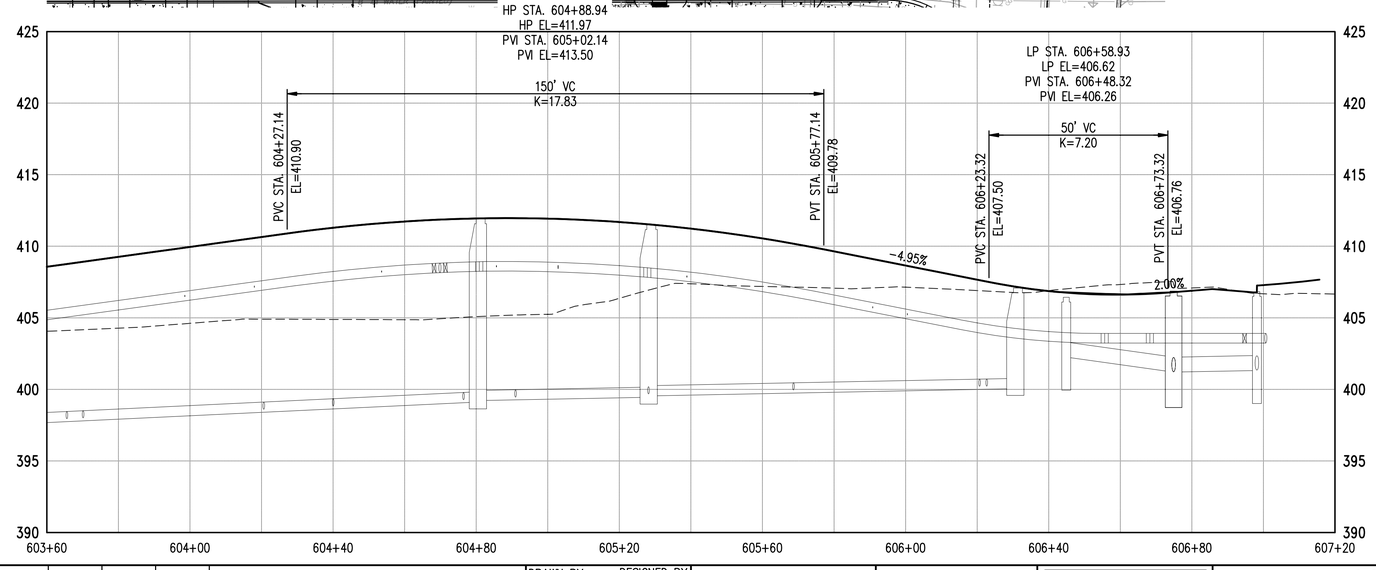
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SEC. 6, T.23 N., R.4E., W.M.





KEY MAP
NTS





0 10 20 40
1 inch = 20 ft. HORZ
0 2.5 5 10
1 inch = 5 ft. VERT

NO.	DATE	BY	CHD.	APPR.	REVISION

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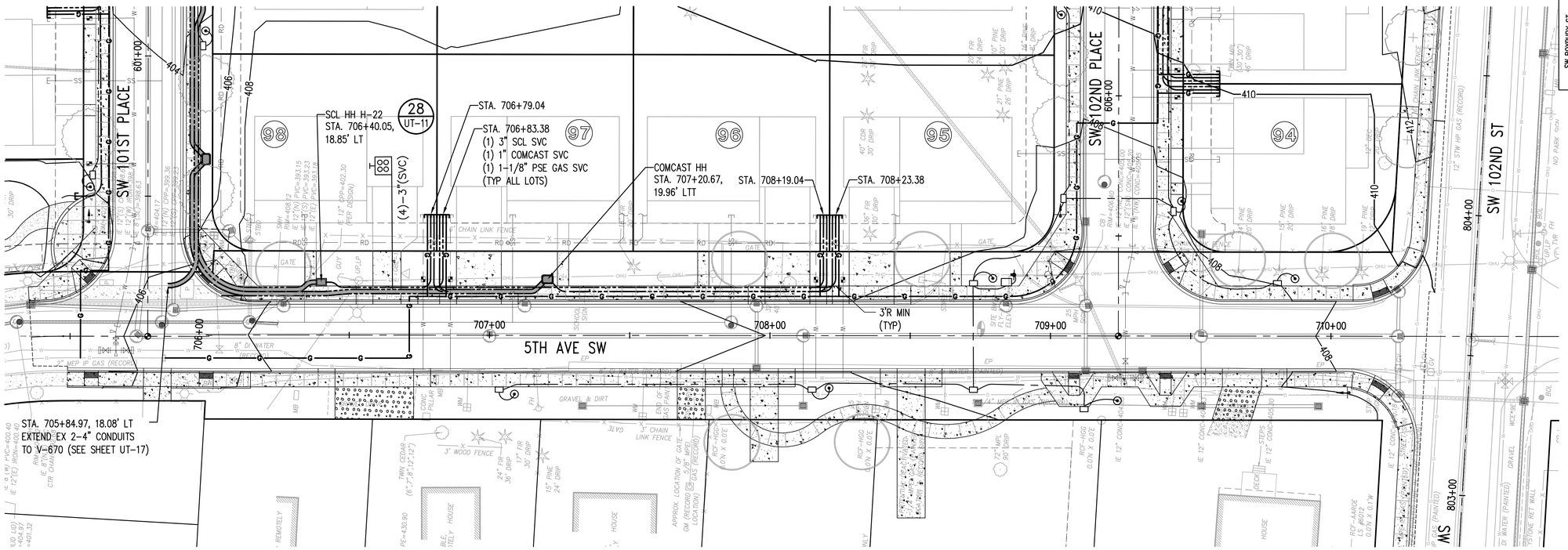
GREENBRIDGE DIVISION 8

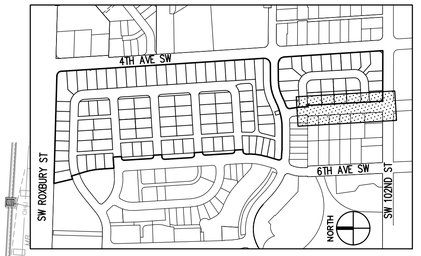
5TH PLACE SW AND 102ND PLACE PLAN AND PROFILE

SHEET
UT-18

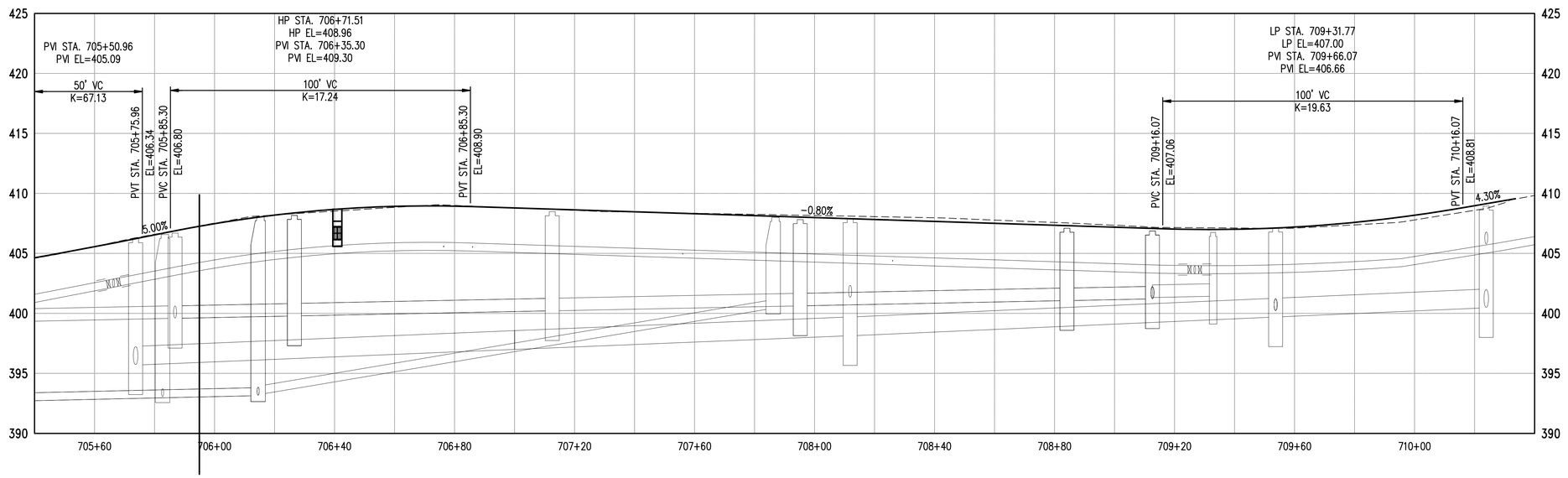
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SEC. 6, T.23 N., R.4E., W.M.





KEY MAP
NTS





0 10 20 40
1 inch = 20 ft. HORZ
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1 inch = 5 ft. VERT

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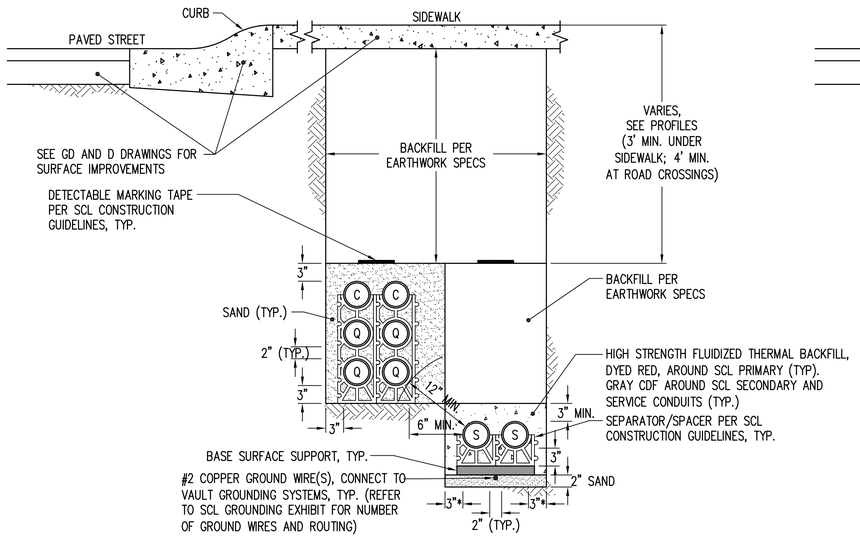
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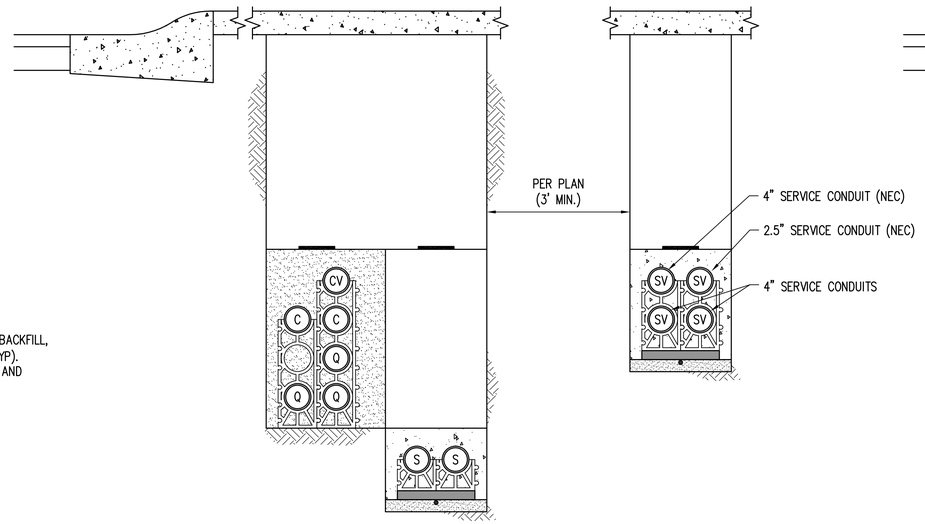
KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
5TH AVENUE SW PLAN AND PROFILE

SHEET
UT-19

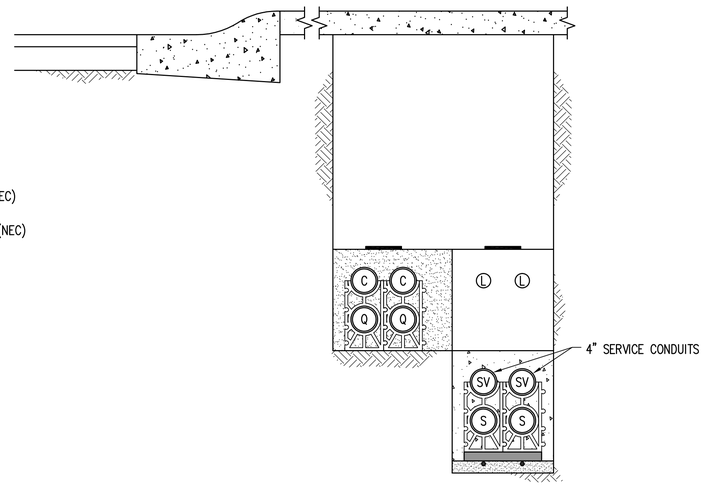
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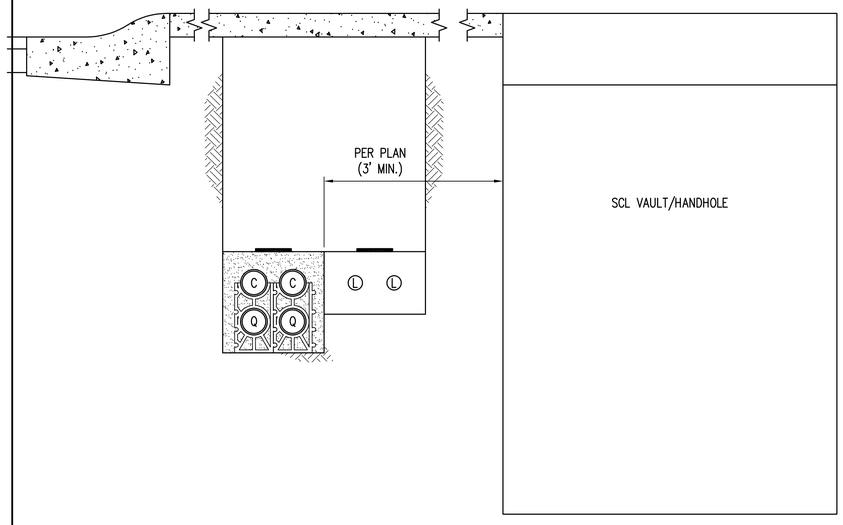
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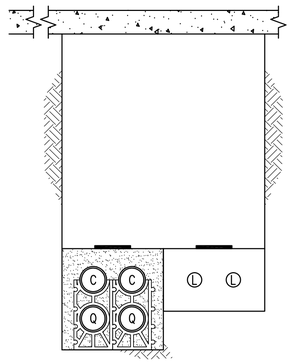
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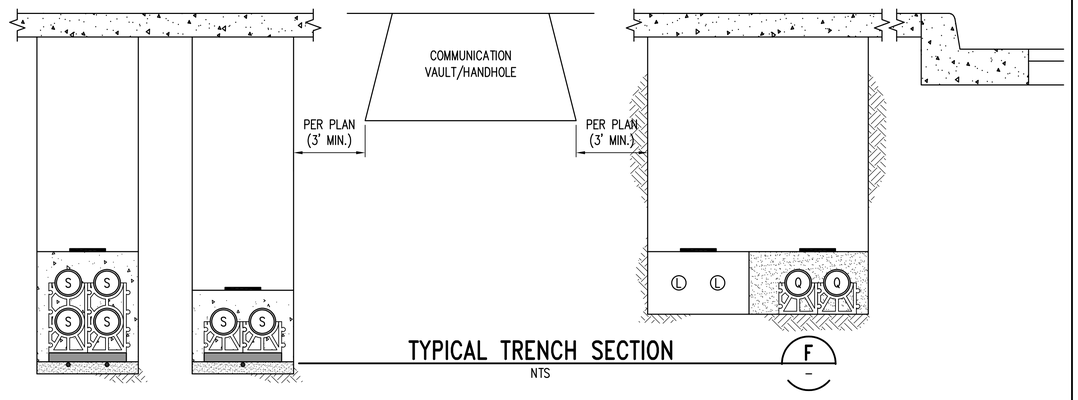
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TYPICAL TRENCH SECTION — D
NTS



TYPICAL TRENCH SECTION — E
NTS



TYPICAL TRENCH SECTION — F
NTS

SECTION LEGEND

S	SCL CONDUIT (4")
SV	SCL SERVICE CONDUIT (3", UNLESS NOTED OTHERWISE)
C	COMCAST CONDUIT (3")
CV	COMCAST SERVICE CONDUIT (2")
L	LIGHTING CONDUIT (2")
G	GAS LINE

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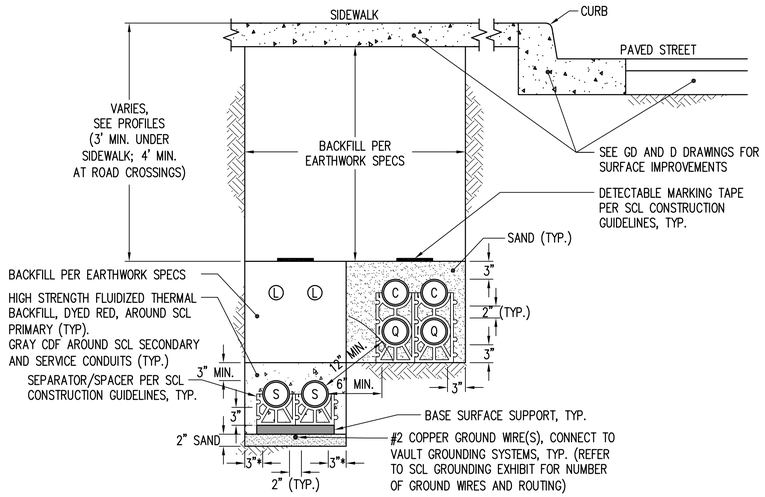
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TYPICAL SECTIONS

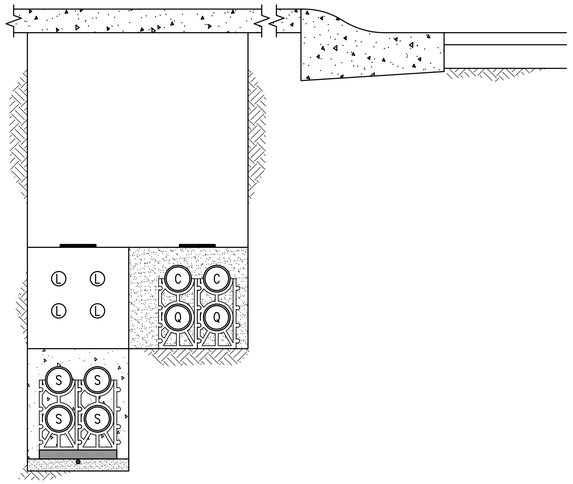
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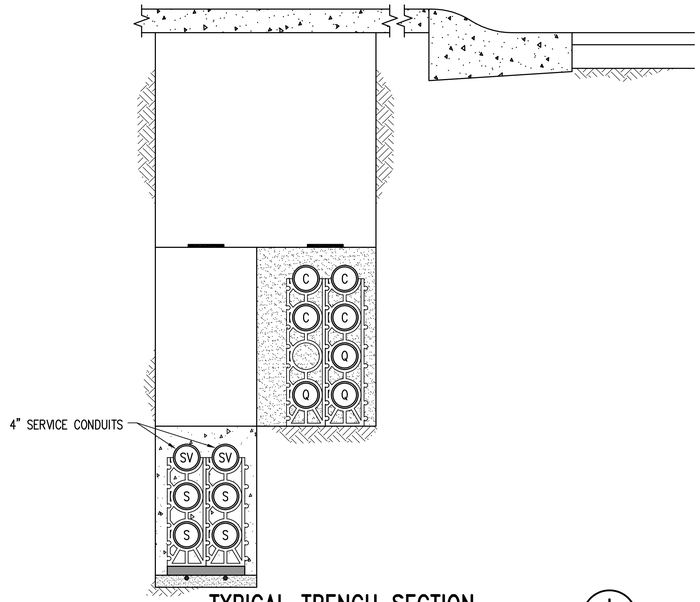


* FLUIDIZED THERMAL BACKFILL OVERPOUR SHALL NOT EXCEED 6"

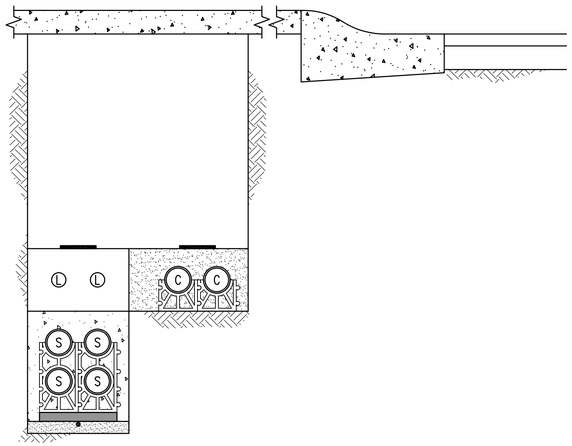
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NTS



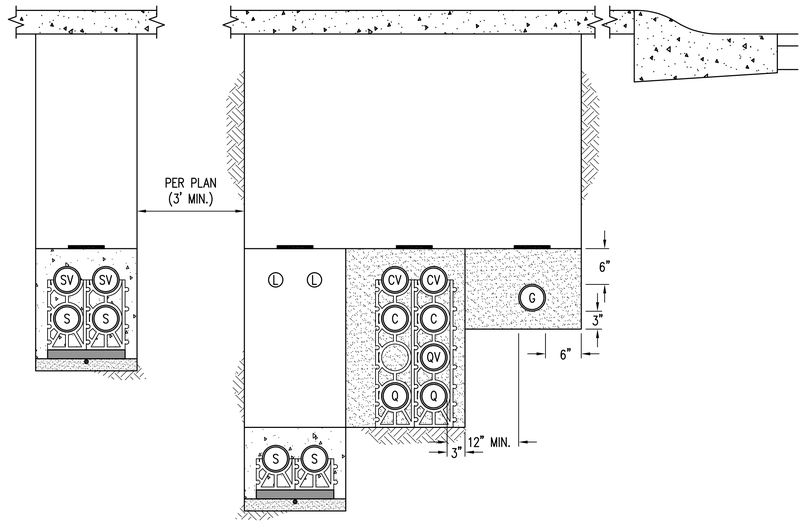
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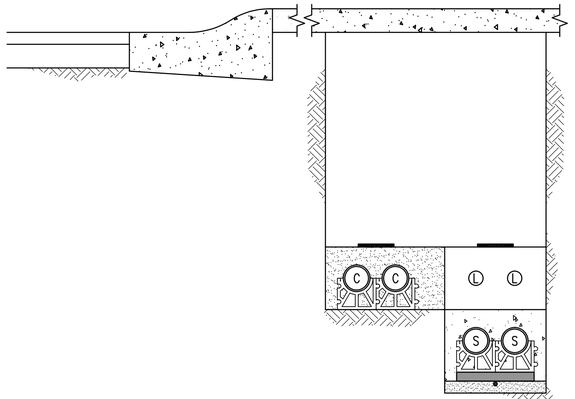
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NTS



TYPICAL TRENCH SECTION — J
NTS



TYPICAL TRENCH SECTION — K
NTS



TYPICAL TRENCH SECTION — L
NTS

SECTION LEGEND

S	SCL CONDUIT (4")
SV	SCL SERVICE CONDUIT (3", UNLESS NOTED OTHERWISE)
Q	QWEST CONDUIT (4")
QV	QWEST DISTRIBUTION OR SERVICE CONDUIT (2")
C	COMCAST CONDUIT (3")
CV	COMCAST SERVICE CONDUIT (2")
L	LIGHTING CONDUIT (2")
G	GAS LINE

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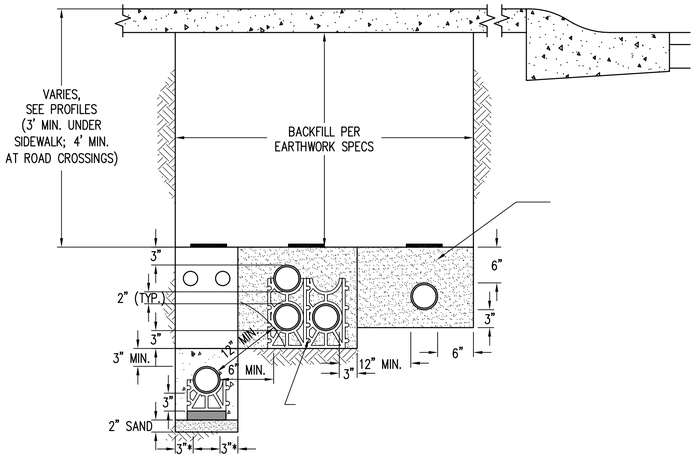
MARK A. VERDIER — STATE OF WASHINGTON — 24711 — REGISTERED PROFESSIONAL ENGINEER

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

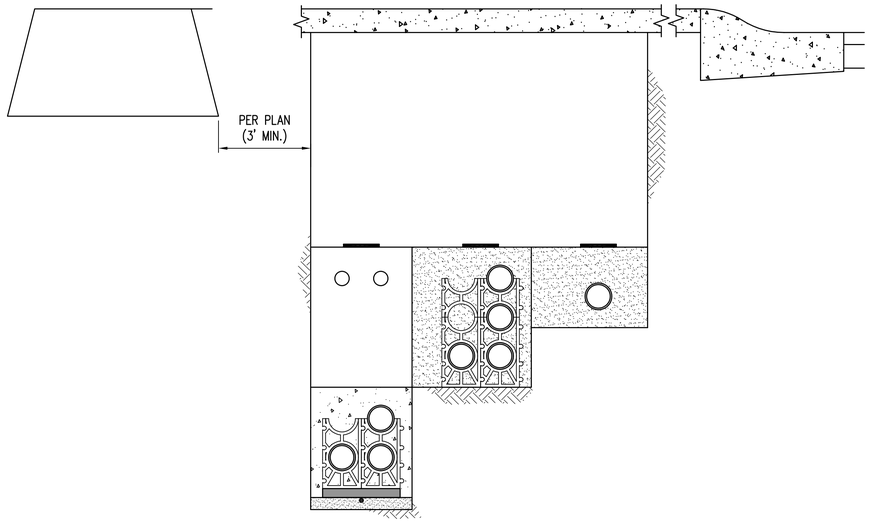
GREENBRIDGE DIVISION 8
TYPICAL SECTIONS

SHEET
UT-21

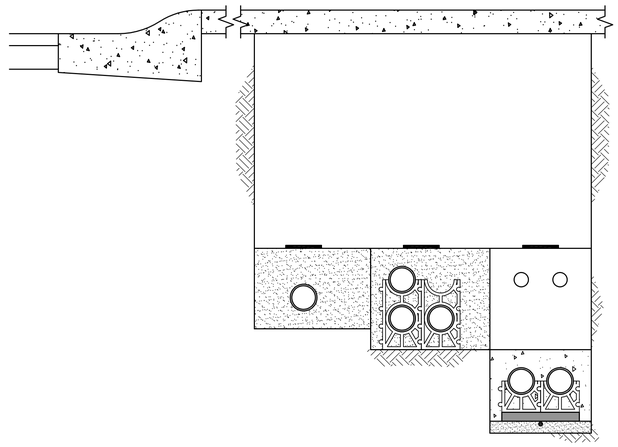
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Apr 02, 2020 - 10:39am BrianB



TYPICAL TRENCH SECTION — M
NTS



TYPICAL TRENCH SECTION — N
NTS



TYPICAL TRENCH SECTION — O
NTS

SECTION LEGEND

S	SCL CONDUIT (4")
SV	SCL SERVICE CONDUIT (3", UNLESS NOTED OTHERWISE)
Q	QWEST CONDUIT (4")
QV	QWEST DISTRIBUTION OR SERVICE CONDUIT (2")
C	COMCAST CONDUIT (3")
CV	COMCAST SERVICE CONDUIT (2")
L	LIGHTING CONDUIT (2")
G	GAS LINE

NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY TAD, BJB | DESIGNED BY BJB
CHECKED BY JCG | APPROVED BY MAV
DATE 2020
J O B No. : 1600206

S C A L E: AS NOTED

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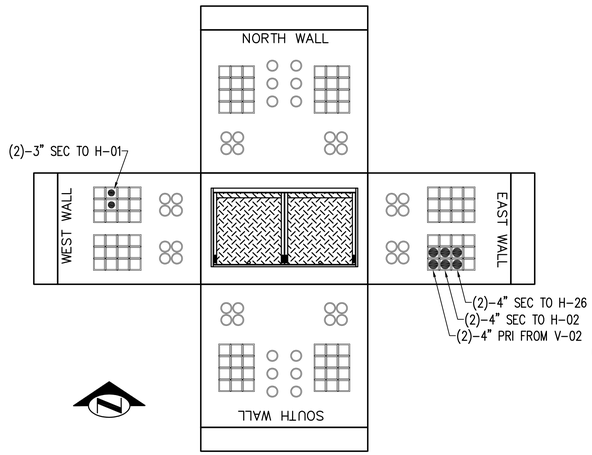
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KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

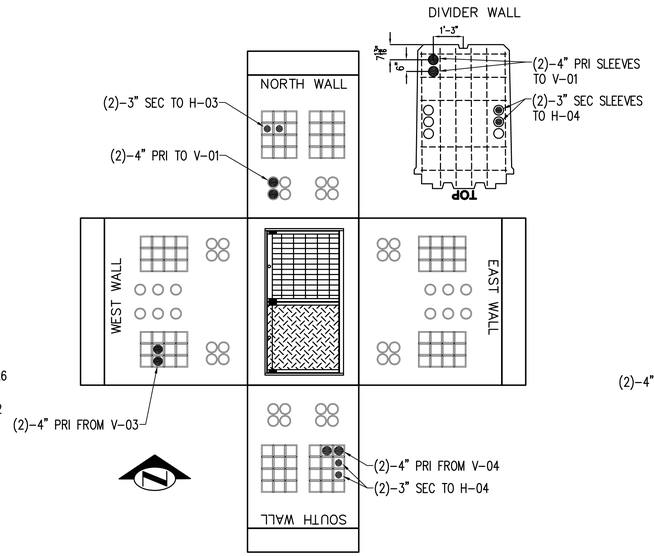
GREENBRIDGE DIVISION 8
TYPICAL SECTIONS

SHEET
UT–22

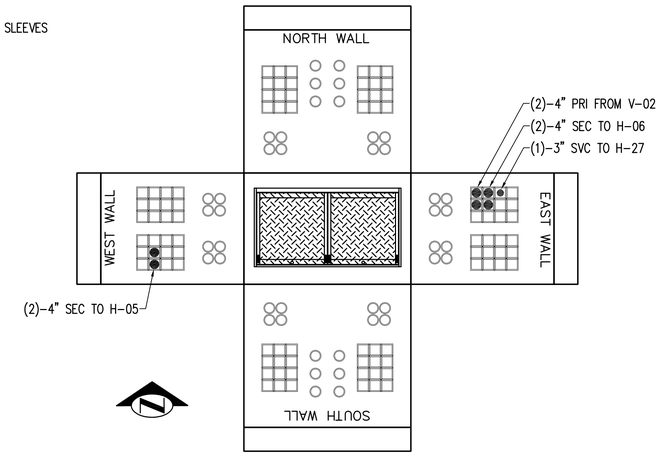
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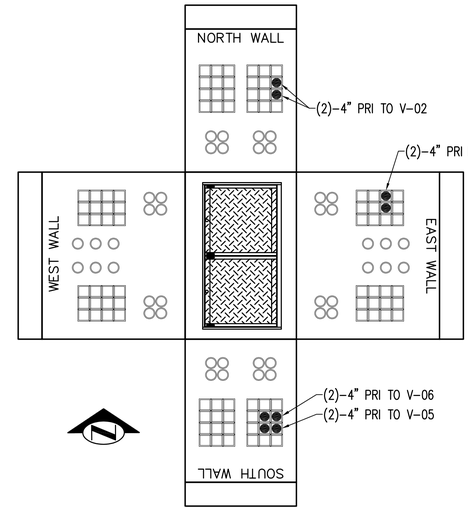
V-01 DETAIL (1) UT-2
(577-LA VAULT)
SCALE: 1" = 3'-0"



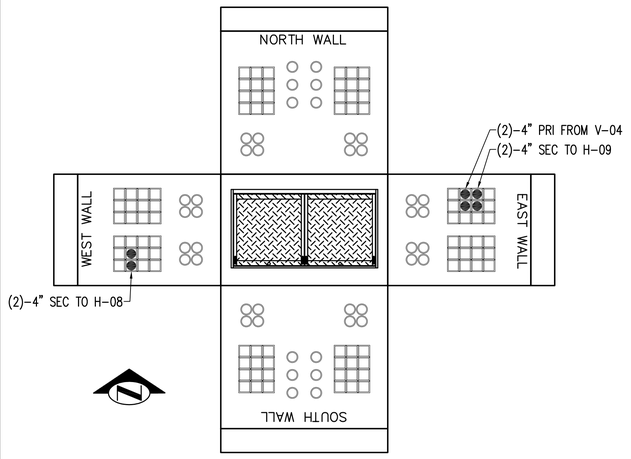
V-02 DETAIL (2) UT-3
(577-LDA VAULT)
SCALE: 1" = 3'-0"



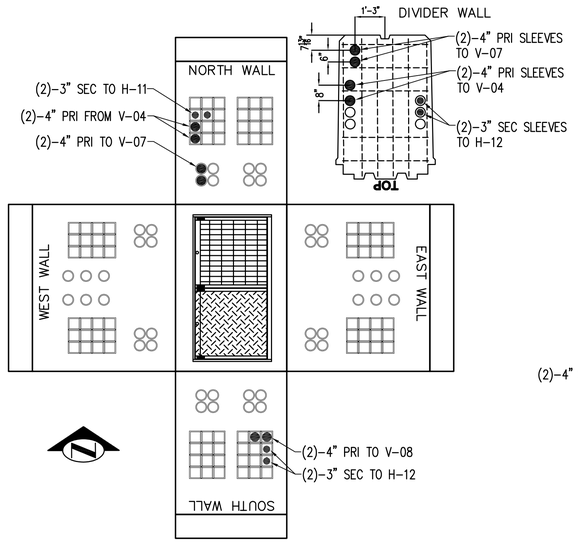
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(577-LA VAULT)
SCALE: 1" = 3'-0"



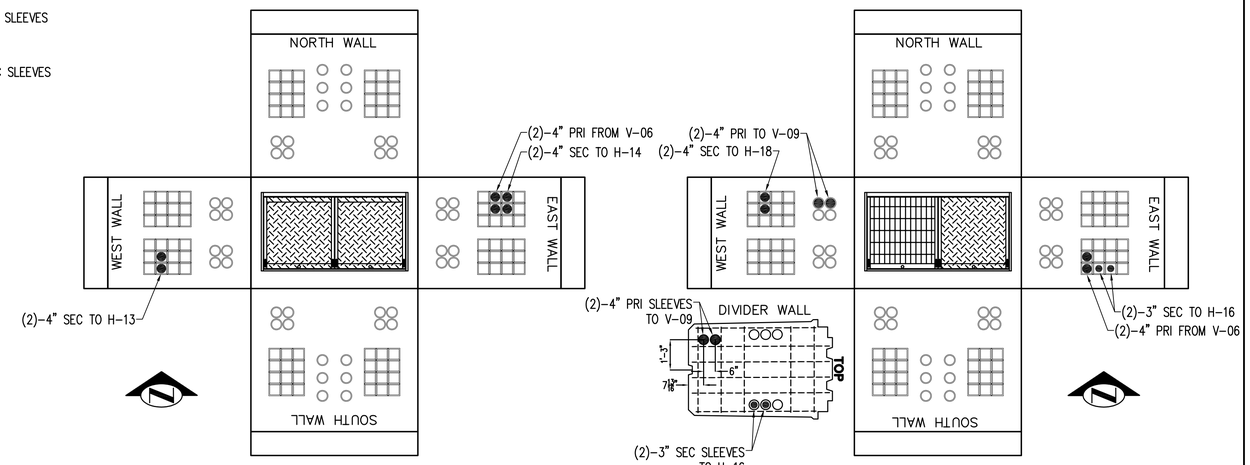
V-04 DETAIL (4) UT-4
(577-LA VAULT)
SCALE: 1" = 3'-0"



V-05 DETAIL (5) UT-7
(577-LA VAULT)
SCALE: 1" = 3'-0"



V-06 DETAIL (6) UT-4
(577-LDA VAULT)
SCALE: 1" = 3'-0"



V-07 DETAIL (7) UT-8
(577-LA VAULT)
SCALE: 1" = 3'-0"

V-08 DETAIL (8) UT-5
(577-LDA VAULT)
SCALE: 1" = 3'-0"

NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY: TAD, BJB | DESIGNED BY: BJB
CHECKED BY: JCG | APPROVED BY: MAV
DATE: 2020
J O B No. : 1600206

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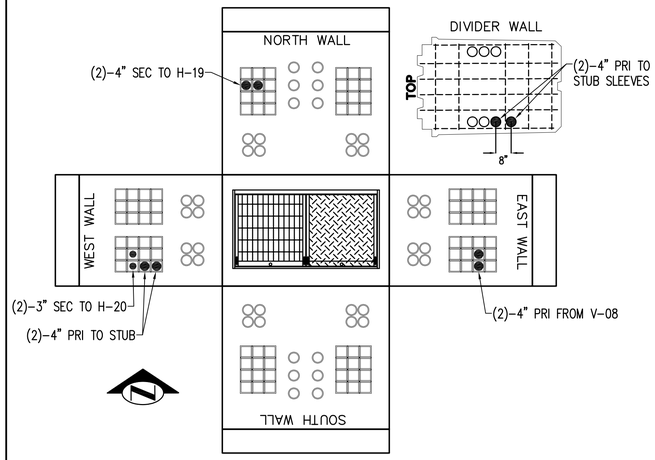
MARK A. TERRY STATE OF WASHINGTON 24711 REGISTERED PROFESSIONAL ENGINEER PRELIMINARY

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

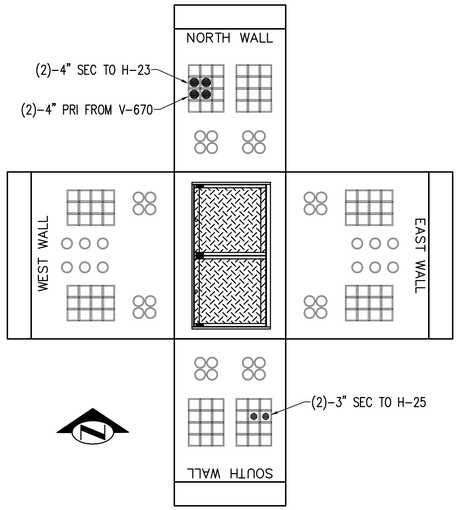
GREENBRIDGE DIVISION 8
FRANCHISE UTILITY SECTIONS AND DETAILS

SHEET
UT-23

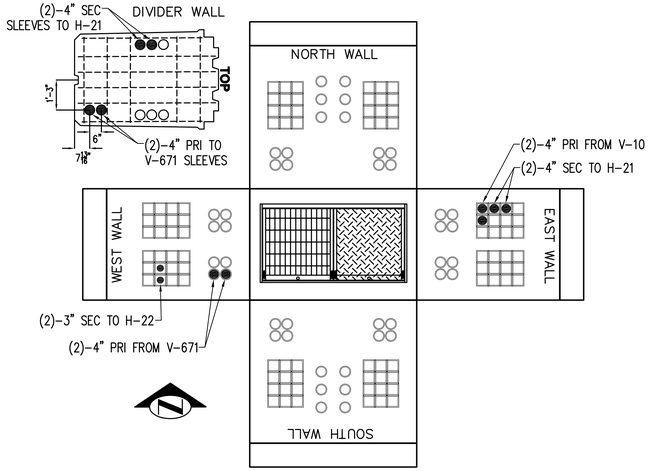
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V-09 DETAIL (9) UT-5
(577-LDA VAULT)
SCALE: 1" = 3'-0"



V-10 DETAIL (10) UT-18
(577-LA VAULT)
SCALE: 1" = 3'-0"



V-670 DETAIL (11) UT-17
(577-LDA VAULT)
SCALE: 1" = 3'-0"

NO.	DATE	BY	CHD.	APPR.	REVISION

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CHECKED BY: JCG | APPROVED BY: MAV
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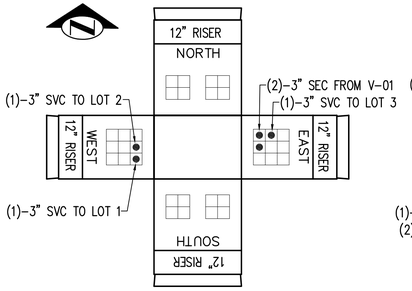
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PRELIMINARY

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
FRANCHISE UTILITY SECTIONS AND DETAILS

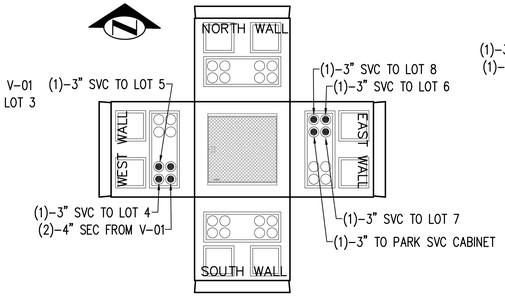
SHEET
UT-24

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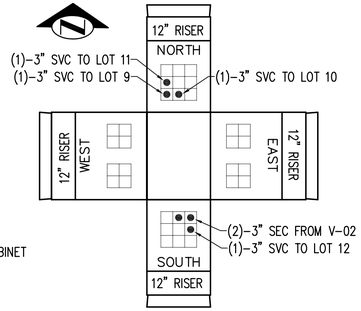
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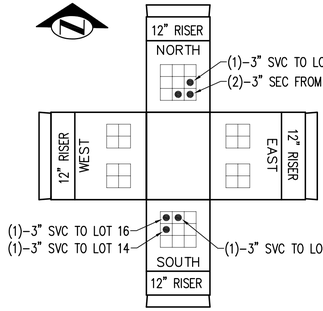
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(233-LA HANDHOLE)
SCALE: 1" = 3'-0"



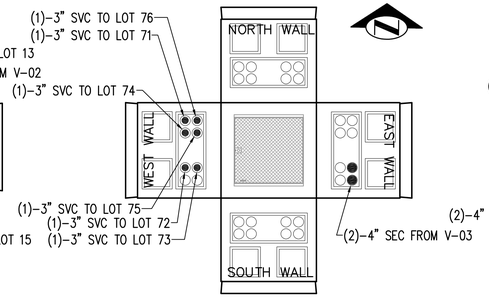
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(444-LA HANDHOLE)
SCALE: 1" = 3'-0"



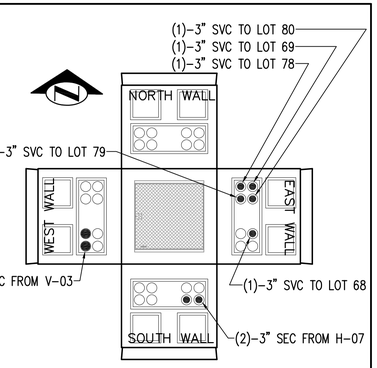
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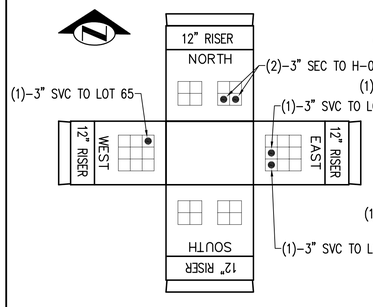
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(233-LA HANDHOLE)
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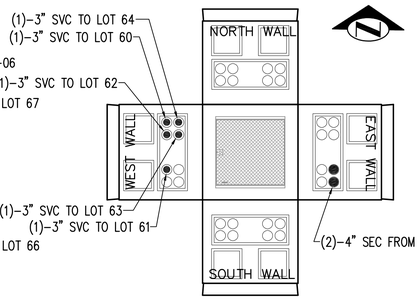
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(444-LA HANDHOLE)
SCALE: 1" = 3'-0"



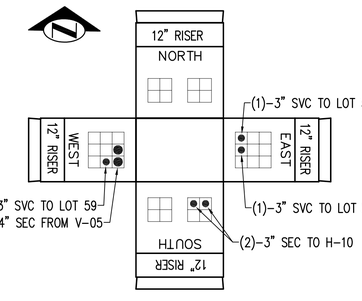
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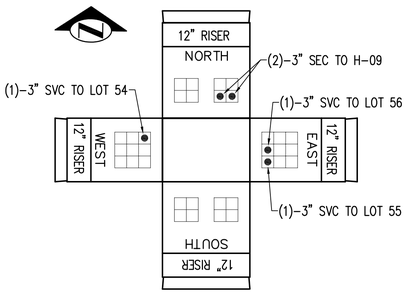
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(233-LA HANDHOLE)
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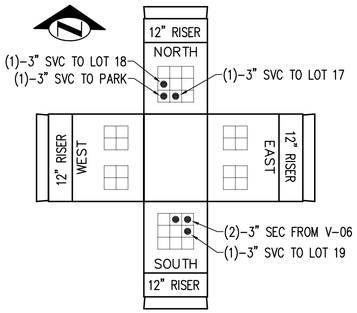
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SCALE: 1" = 3'-0"



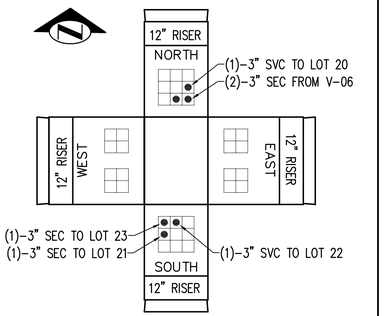
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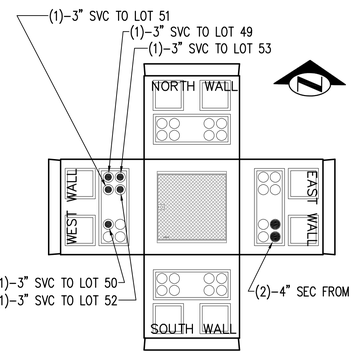
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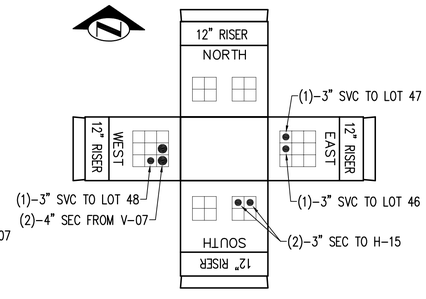
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SCALE: 1" = 3'-0"



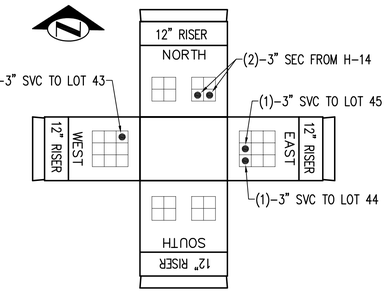
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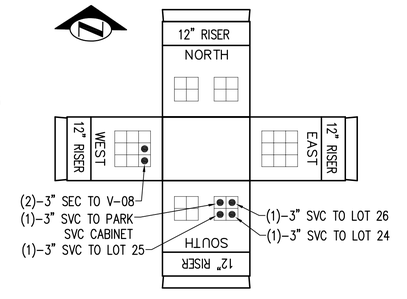
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(444-LA HANDHOLE)
SCALE: 1" = 3'-0"



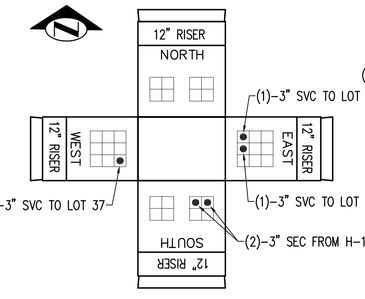
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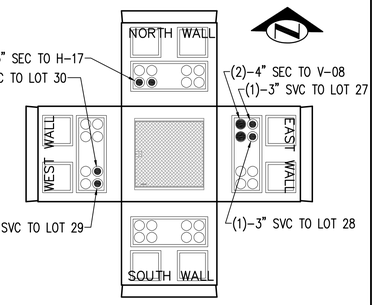
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(233-LA HANDHOLE)
SCALE: 1" = 3'-0"



SCL H-16 DETAIL 22 UT-5
(233-LA HANDHOLE)
SCALE: 1" = 3'-0"



SCL H-17 DETAIL 23 UT-5
(233-LA HANDHOLE)
SCALE: 1" = 3'-0"



SCL H-18 DETAIL 24 UT-5
(444-LA HANDHOLE)
SCALE: 1" = 3'-0"

NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY TAD, BJB | DESIGNED BY BJB
CHECKED BY JCG | APPROVED BY MAV
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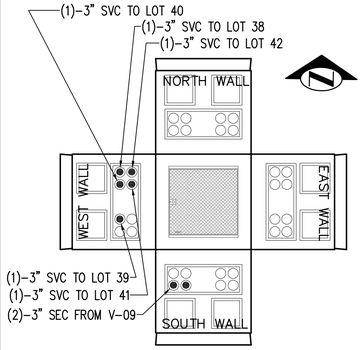
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PRELIMINARY

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

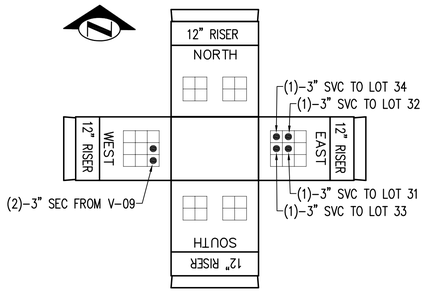
GREENBRIDGE DIVISION 8
FRANCHISE UTILITY SECTIONS AND DETAILS

SHEET
UT-25

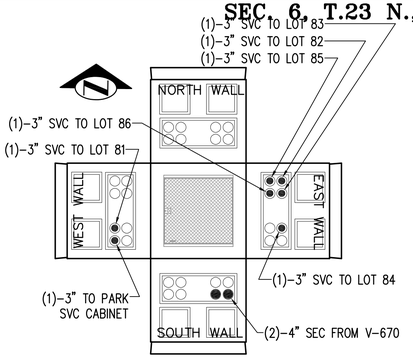
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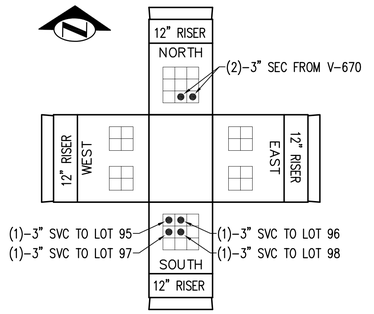
SCL H-19 DETAIL 25 UT-5
(444-LA HANDHOLE)
SCALE: 1" = 3'-0"



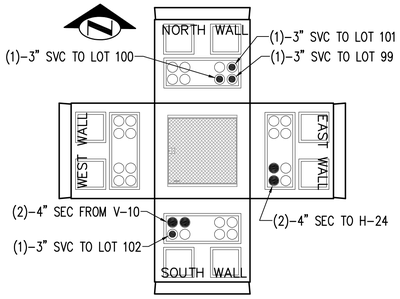
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(233-LA HANDHOLE)
SCALE: 1" = 3'-0"



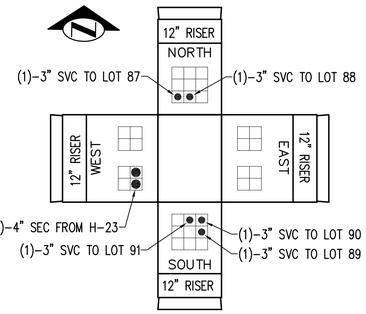
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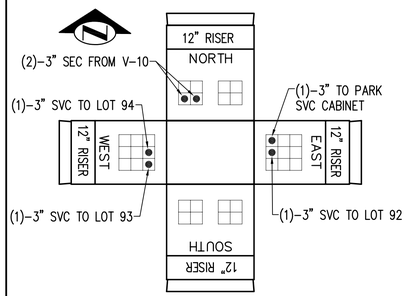
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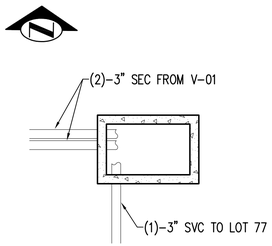
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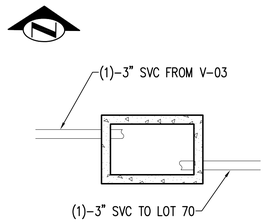
SCL H-24 DETAIL 30 UT-18
(233-LA HANDHOLE)
SCALE: 1" = 3'-0"



SCL H-25 DETAIL 31 UT-18
(233-LA HANDHOLE)
SCALE: 1" = 3'-0"



SCL H-26 DETAIL 32 UT-2
(1728 HANDHOLE)
SCALE: 1" = 2'-0"



SCL H-27 DETAIL 33 UT-6
(1728 HANDHOLE)
SCALE: 1" = 2'-0"

NO.	DATE	BY	CHD.	APPR.	REVISION

DRAWN BY TAD, BJB | DESIGNED BY BJB
CHECKED BY JCG | APPROVED BY MAV
DATE 2020
J O B No. : 1600206

811 Call 811 two business days before you dig

S C A L E: AS NOTED

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1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com

Greenbridge
King County Housing Authority

MARK A. VEH — STATE OF WASHINGTON — 24711 — REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

GREENBRIDGE DIVISION 8
FRANCHISE UTILITY SECTIONS AND DETAILS

SHEET
UT-26

Apr 02, 2020 - 10:51am BrianB
Z:\1600001-1600999\1600206 (Greenbridge)\CADD\Design\02-Design Development\SCL\17-GB SCL 21 DETAILS.dwg

King County
PERMITTING DIVISION
Department of Local Services
35030 SE Douglas St., STE #210
Snoqualmie, WA 98065
206-296-6600 TTY 711
www.kingcounty.gov

PERMIT EXTENSION APPLICATION

To apply for a permit extension, please fill out this form completely before submitting your request. Please see reverse side for the fee schedule.

- **Email:** Send to PermitServices@kingcounty.gov You will receive a reply to your request. If your request is approved, we will send you instructions for making payment online.
- **Mail:** Mail completed form to the address above along with your payment.

As of the date of this letter, you have a credit balance of $_____.
Please indicate if you would like to apply this credit to an extension: ☐ Yes ☐ No

Date: 11/20/2020 Permit # FIRP17-0397 Expiration Date: 10/18/2020

Applicant Name: King County Housing Authority

Applicant Address: 600 Andover Park W City: Tukwila State: WA Zip: 98188

Email: KevinP@kcha.org Phone: 206-574-1199

Please indicate how you would like us to contact you: ☐ Mail ☒ Email

If no work has started, indicate if you would like to CANCEL your permit. This will render your permit null and void: ☐ Yes

Please indicate the extension you are requesting:

☒ 1st Extension request
☒ Yes ☐ No Has site work started?

☐ 2nd Extension request
☐ Yes ☐ No Is site work complete?
☐ Yes ☐ No If applicable, is foundation inspected and approved?

☐ 3rd Extension request-needs Final inspection only
☐ Yes ☐ No Is construction substantially complete; foundation & framing, inspected *and* approved?

☐ Other: Please explain_____
☐ Yes ☐ No Is construction substantially complete; foundation & framing, inspected *and* approved?

If your permit does not meet the criteria for an extension, in order to continue with construction and obtain occupancy approval, a new permit application may be required. If you have questions about this notice, email us at PermitServices@kingcounty.gov or call us at the number listed above. Thank you.

SEC. 6, T.23 N., R.4E., W.M.

330' DIA HYDRANT COVERAGE RADII (TYP)

4TH AVENUE SW

SW ROXBURY STREET

5TH AVENUE SW

SW 96TH PLACE

SW 97TH PLACE

SW 98TH STREET

SW 98TH PLACE

SW 99TH PLACE

TRACT A-801

TRACT A-802

TRACT A-803

TRACT A-804

TRACT A-805

TRACT A-806

6TH AVENUE SW

EXISTING WD#45 HYDRANT AND COVERAGE RADII (TYP)

SW 100TH STREET

SW 101ST PLACE

5TH PLACE SW

SW 102ND PLACE

5TH AVENUE SW

SW 102ND STREET

6TH AVENUE SW

LEGEND

- PROPOSED WD#45 FIRE HYDRANT
- EXISTING WD#45 FIRE HYDRANT

0 30 60 120

1 inch = 60 feet

Sep 19, 2017 - 1:02pm Brandi Z:\1600001 - 1600999\1600206 (Greenbridge)\CAD\Exhibits\GB WD#45 CMDP KC FIRE EXHIBIT.dwg

NO.	BY	DATE	DESCRIPTION
			REVISIONS

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Seattle, WA 98101
206.622.5822
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MARA A. VEIDEMAN
STATE OF WASHINGTON
24711
REGISTERED
PROFESSIONAL ENGINEER

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SCALE HORIZ: VERT:	DES. FLD. BK. NO. PG.	CST. FLD. BK. NO. PG.	

DATE APPROVED	
PRINCIPAL APPROVAL	
DESIGN	BJB
DRAWN	TAD
CHECKED	AGC
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

GREENBRIDGE DIVISION 8
FIRE HYDRANT COVERAGE EXHIBIT

BASE MAP	
SHEET	OF
DRAWING	EX

LEGEND AND ABBREVIATIONS

(X / X-X)	DETAIL REFERENCE NUMBER/SECTION SHEET	⊕	SURVEY MONUMENT
B/W	BACK OF WALK		FIRE HYDRANT
CB	CATCH BASIN		HORIZONTAL BEND W/ BLOCKING
CL	CENTERLINE		GATE VALVE
CONC	CONCRETE		TEE W/ BLOCKING
CTR	CENTER		WATER METER
DI	DUCTILE IRON		WATER MAIN
DOM	DOMESTIC		SLEEVE
EL, ELEV.	ELEVATION		EXISTING KCWD#20 WATER MAIN
EX, EXIST	EXISTING		SANITARY SEWER LINE
FL	FLANGE JOINT		STORM DRAIN LINE
FH	FIRE HYDRANT		GREEN DRAIN LINE
G	GAS		
GD	GREEN DRAINAGE		
GV	GATE VALVE		
EX, EXIST.	EXISTING		
IE	INVERT ELEVATION		
LT	LEFT		
MJ	MECHANICAL JOINT		
PL	PROPERTY LINE		
PE	PLAIN END		
P.O.C.	POINT OF CONNECTION		
R/W, ROW	RIGHT OF WAY		
RT	RIGHT		
RJ	RESTRAINED JOINT		
RS	RESILIANT SEATED		
SCL	SEATTLE CITY LIGHT		
SD	STORM DRAINAGE		
SL	SLEEVE		
SS	SANITARY SEWER		
STD(S)	STANDARD(S)		
SVC	SERVICE		
TB	THRUST BLOCK		
W/	WITH		
KCWD#20	KING COUNTY WATER DISTRICT #20		
WL	WATER LINE		
WTR	WATER		

GENERAL NOTES

1. A COPY OF THE APPROVED PLANS, AND KCWD#20 SPECIFICATIONS SHALL BE ON SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
2. KCWD#20 SHALL OBTAIN ALL PERMITS REQUIRED FOR WORK WITHIN THE PUBLIC RIGHT OF WAY.
3. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL SCHEDULE AND ATTEND A PRE-CONSTRUCTION CONFERENCE WITH THE KCWD#20. THE CONTRACTOR SHALL NOTIFY THE OWNER'S PROFESSIONAL ENGINEERING CONSULTANT OF THE PRE-CONSTRUCTION MEETING TIME AND LOCATION.
4. VERTICAL DATUM: NAVD 88

   BENCH MARK "B"
   SOUTHERLY TOP FLANGE BOLT BETWEEN THE LETTERS E & L IN THE WORD MUELLER, ON FIRE HYDRANT AT S.W. CORNER OF 8TH AVE S.W. & S.W. 102ND ST.
   ELEVATION = 407.61'

   BENCH MARK "C"
   CHISELED SQUARE AT INTERSECTION OF BACK OF CONCRETE WALKS AND BACK OF CURBS AT N.E. CORNER OF 4TH AVE. S.W. & S.W. 102ND ST.
   ELEVATION = 423.37'
5. THE CONTRACTOR SHALL NOTIFY KING COUNTY FIRE DEPARTMENT DISPATCHER (386-1495) TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL WATER SERVICE INTERRUPTIONS, HYDRANT SHUTOFFS, AND STREET CLOSURES OR OTHER ACCESS BLOCKAGE. THE CONTRACTOR SHALL ALSO NOTIFY THE DISPATCHER OF ALL NEW, RELOCATED, OR ELIMINATED HYDRANTS RESULTING FROM THIS WORK.
6. ALL LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN.
7. THE CONTRACTOR SHALL LOCATE AND PROTECT ALL CASTINGS AND UTILITIES DURING CONSTRUCTION AND SHALL CONTACT THE UNDERGROUND UTILITIES LOCATOR SERVICE (1-800-424-5555) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
8. THE CONTRACTOR SHALL ADJUST ALL EXISTING MANHOLE RIMS, DRAINAGE STRUCTURE LIDS, VALVE BOXES, AND UTILITY ACCESS STRUCTURES TO FINISH GRADE WITHIN AREAS AFFECTED BY THE PROPOSED IMPROVEMENTS.
9. ALL WORK PERFORMED BY SEATTLE CITY LIGHT, SPU/WATER DEPARTMENT, KCWD#20, AND OTHER PUBLIC/ PRIVATE UTILITIES TO REMOVE OR RELOCATE EXISTING UTILITIES AT THE DEVELOPER'S EXPENSE, SHALL BE COORDINATED BY THE CONTRACTOR.
10. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL POSITION OF ALL PROPOSED UTILITY POINTS OF CONNECTION, AND SHALL POTHOLE ALL CROSSINGS WITH EXISTING UTILITIES PRIOR TO THE START OF DEMOLITION AND INSTALLATION OF PROPOSED UTILITIES.
9. SURVEY PREPARED BY GOLDSMITH LAND DEVELOPMENT SERVICES. 1215 114TH AVE SE, BELLEVUE, WA. PH# (425)-462-1080

WATER DISTRICT #20 GENERAL WATER NOTES

1. PROJECT TO BE CONSTRUCTED IN ACCORDANCE WITH KING COUNTY WATER DISTRICT NO. 20 STANDARD SPECIFICATIONS.
2. PIPE DEFLECTION AT JOINTS NOT TO EXCEED ½ OF MANUFACTURER'S RECOMMENDATIONS.
3. MAINTAIN A MINIMUM OF 10 FEET HORIZONTAL SEPARATION BETWEEN WATER MAIN AND SANITARY SEWER AT ALL LOCATIONS, EXCEPT AS ALLOWED PER SECTION C1-9.1 OF THE CRITERIA FOR SEWAGE WORKS DESIGN AS PUBLISHED BY THE DEPARTMENT OF ECOLOGY IN DECEMBER 1998.
4. NOTIFY THE DISTRICT OFFICE IN WRITING A MINIMUM OF 72 HOURS PRIOR TO PROCEEDING WITH CONSTRUCTION.
5. WATER WORKS TESTING
   SHUT DOWN VALVE(S) TO EXISTING WATER SYSTEM. PUMP UP MAIN TO 250 P.S.I. AS DETERMINED BY ACCURATE PRESSURE GAUGE ON PUMP AND LET SIT FOR A MINIMUM OF 15 MINUTES. THERE SHALL BE NO APPRECIABLE OR ABRUPT LOSS IN PRESSURE IN THE 15 MINUTES. CONTRACTOR SHALL IDENTIFY AND CORRECT THE PROBLEM IF A PRESSURE DROP GREATER THAN 5 P.S.. OCCURS. (CONTRACTOR TESTING GAUGE MAY BE COMPARED TO DISTRICT PRESSURE GAUGE FOR ACCURACY)

   PRIOR TO CALLING OUT THE DISTRICT TO WITNESS THE PRESSURE TEST, THE CONTRACTOR SHALL HAVE ALL EQUIPMENT SET UP AND COMPLETELY READY FOR OPERATION AND SHALL HAVE SUCCESSFULLY PERFORMED THE TEST TO ASSURE HIMSELF/HERSELF THAT THE PIPE IS IN SATISFACTORY CONDITION.
6. THE CONTRACTOR SHALL NOT OPERATE ANY GATE VALVES OR MAKE ANY CONNECTIONS TO THE EXISTING WATER SYSTEM WITHOUT PRIOR WRITTEN APPROVAL FROM THE DISTRICT INSPECTOR OR SUPERINTENDENT.
7. WATER SERVICE LOCATIONS ARE SHOWN AT APPROXIMATE LOCATION ONLY. ALL FINAL LOCATIONS SHALL BE FIELD STAKED BY THE DEVELOPER'S ENGINEER AND THEN COORDINATED AND FIELD VERIFIED WITH THE DISTRICT INSPECTOR OR SUPERINTENDENT PRIOR TO INSTALLATION. ALL TAPS TO THE WATERMAIN SHALL BE MADE AT THE SAME HORIZONTAL STATION ALONG THE PIPE THAT THE METER IS PLACED UNLESS OTHER ARRANGEMENTS ARE MADE WITH THE DISTRICT.
8. ℄ = DOUBLE SERVICE
   ℄ = SINGLE SERVICE
   } 1-1" (MINIMUM) SERVICE LINE PER METER

   DOUBLE SERVICES SHALL NOT BE LOCATED WHERE THERE WILL BE CONFLICTS WITH OTHER UTILITY BOXES. ANY CHANGES TO THE DESIGN LOCATIONS SHALL BE APPROVED BY DISTRICT MANAGER OR SUPERINTENDENT PRIOR TO INSTALLATION.
9. AFTER CLEARING AND A MINIMUM OF 4 WEEKS PRIOR TO WATERLINE INSTALLATION, THE DEVELOPER OR CONTRACTOR SHALL COORDINATE WITH THE DISTRICT SO THAT SOILS TESTING CAN BE COMPLETED BY DEVELOPER AS DETERMINED BY THE DISTRICT. THE DISTRICT WILL DETERMINE WHERE POLYETHYLENE LINING SHALL BE INSTALLED ON THE WATERLINE.

DRAWING INDEX

DRAWING	SHEET	DRAWING TITLE
CVR	1	COVER SHEET
W-1	2	NOTES AND LEGEND
W-1A	3	OVERALL WATER KEY PLAN
W-2	4	SW 97TH STREET PLAN AND PROFILE
W-3	5	5TH LANE SW PLAN AND PROFILE
W-4	6	5TH LANE SW PLAN AND PROFILE
W-5	7	SW 99TH PLACE PLAN AND PROFILE
W-6	8	SW 97TH PLACE PLAN AND PROFILE
W-7	9	SW 98TH STREET PLAN AND PROFILE
W-8	10	SW 98TH PLACE PLAN AND PROFILE
W-9	11	TRACT A-806 PLAN AND PROFILE
W-10	12	SW 100TH PLACE AND 5TH PLACE SW PLAN AND PROFILE
W-11	13	5TH PLACE SW AND SW 101ST PLACE PLAN AND PROFILE
W-12	14	5TH AVENUE SW PLAN AND PROFILE
W-13	15	STANDARD DETAILS
W-14	16	STANDARD DETAILS

Water District 20 KING COUNTY
APPROVED CONSTRUCTION DRAWINGS — DATE 2/5/20

DEA #25270.5

NO.	BY	DATE	REVISIONS
2		02/27/20	REVISED PER KCWD#20 COMMENTS
1		02/05/20	ORIGINAL SUBMITTAL

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MARK L. VERDIER — STATE OF WASHINGTON — 24711 — REGISTERED PROFESSIONAL ENGINEER
2/28/2020

KING COUNTY WATER DISTRICT NO. 20
WATER MAIN EXTENSION

Greenbridge

SCALE	DES. FLD. BK.	CST. FLD. BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY

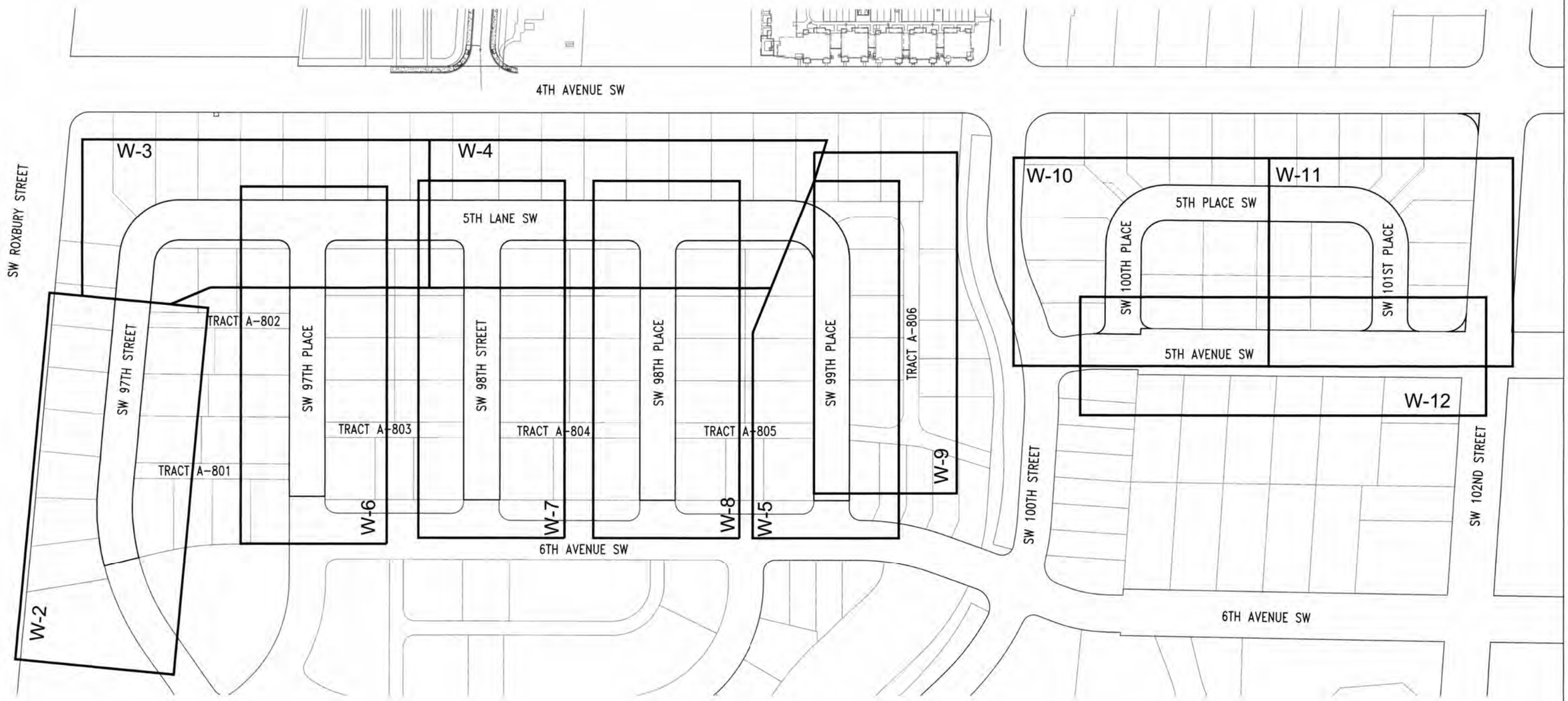
GREENBRIDGE DIVISION 8

NOTES AND LEGEND

BASE MAP
SHEET 2 OF 16
DRAWING W-1

Feb 27, 2020 - 8:57am brandt Z:\1600001 - 1600999\1600206 (Greenbridge)\CAD\Design\02-Design Development\W20\01-GE W20 | NOTES.dwg

SEC. 6, T.23 N., R.4E., W.M.



811 Call 811 two business days before you dig

Water District 20 KING COUNTY
APPROVED CONSTRUCTION DRAWINGS Richard Gilmore DATE 2/5/20

DEA #25270.5

NO.	BY	DATE	REVISIONS
2		02/27/20	REVISED PER KCHD#20 COMMENTS
1		02/05/20	ORIGINAL SUBMITTAL

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www.kpff.com

MARK A. VELDER — STATE OF WASHINGTON — 24711 — REGISTERED PROFESSIONAL ENGINEER
2/28/2020

KING COUNTY
WATER DISTRICT NO. 20
WATER MAIN EXTENSION

Greenbridge

SCALE	DES. FLD. BK:	CST. FLD. BK:
HORIZ:	NO.	NO.
VERT:	PG.	PG.

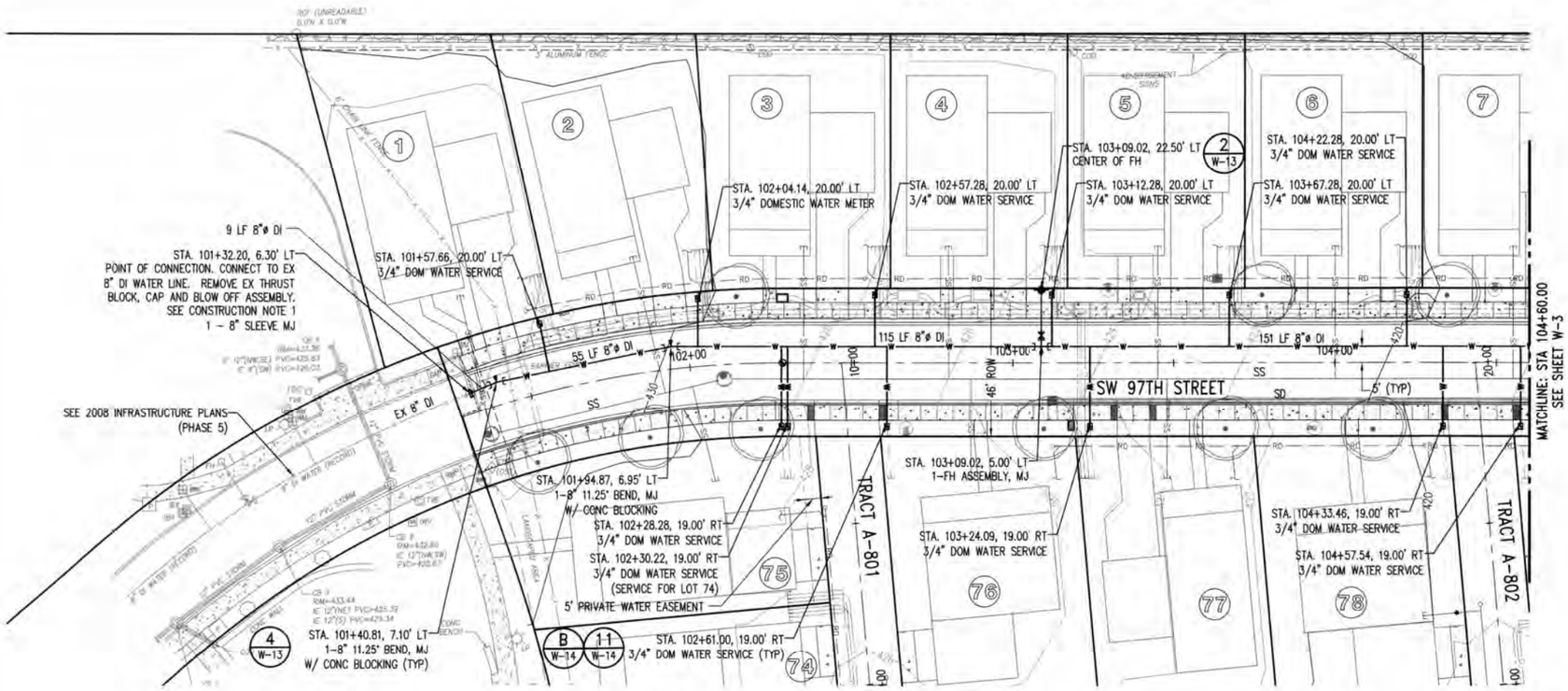
DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
OVERALL WATER KEY PLAN

BASE MAP
SHEET 3 OF 16
DRAWING
W-1A

Feb 27, 2020 - 9:58am brandt
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SEC. 6, T.23 N., R.4E., W.M.

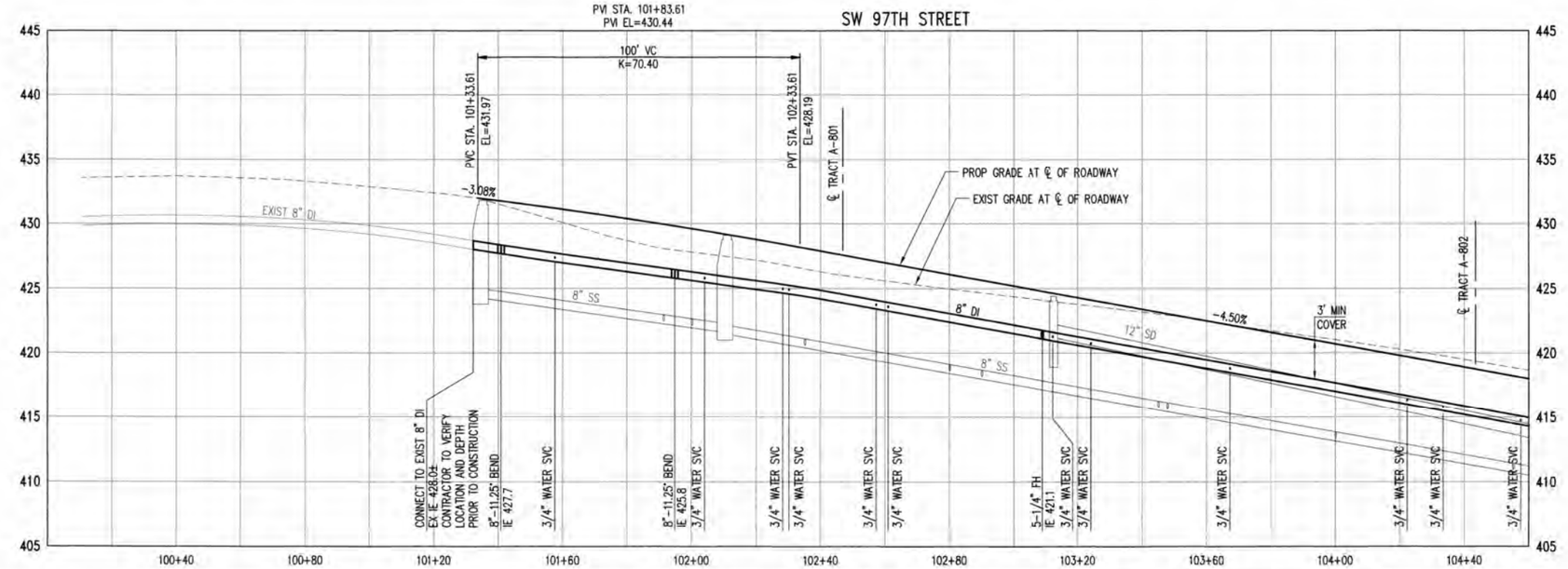




KEY MAP
NTS

CONSTRUCTION NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE AND MATERIAL OF EXISTING WATERMAIN IN THE PRESENCE OF WD#20 INSPECTOR. PREPARE A SKETCH REFLECTING SEQUENCE FOR SHUTTING DOWN AND CONNECTING TO EXIST. WATERMAINS FOR APPROVAL BY WD#20 INSPECTOR.
2. NO CONNECTION TO THE EXISTING SYSTEM SHALL BE MADE UNTIL AFTER PRESSURE AND PURITY TEST ACCEPTANCE AND AUTHORIZATION BY WD#20.
3. EXISTING FEATURES ARE NOT SHOWN FOR CLARITY. CONTRACTOR SHALL REFER TO THE SURVEY PLANS AND FIELD OBSERVATION FOR UTILITIES AND EXIST. STRUCTURES THAT MAY BE ENCOUNTERED DURING TRENCHING.



N

0 10 20 40
1 inch = 20 ft. HORZ
0 2.5 5 10
1 inch = 5 ft. VERT

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Water District 20, KING COUNTY
APPROVED CONSTRUCTION DRAWINGS
DATE 3/5/20

DEA #25270.5

NO.	BY	DATE	REVISIONS
2		03/27/20	REVISED PER KCWD#20 COMMENTS
1		03/05/20	ORIGINAL SUBMITTAL

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MARK A. VELDERS — STATE OF WASHINGTON — PROFESSIONAL ENGINEER — REGISTERED — DATE
2/28/2020

KING COUNTY
WATER DISTRICT NO. 20
WATER MAIN EXTENSION

Greenbridge

SCALE	DES. FLD. BK.	CST. FLD. BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

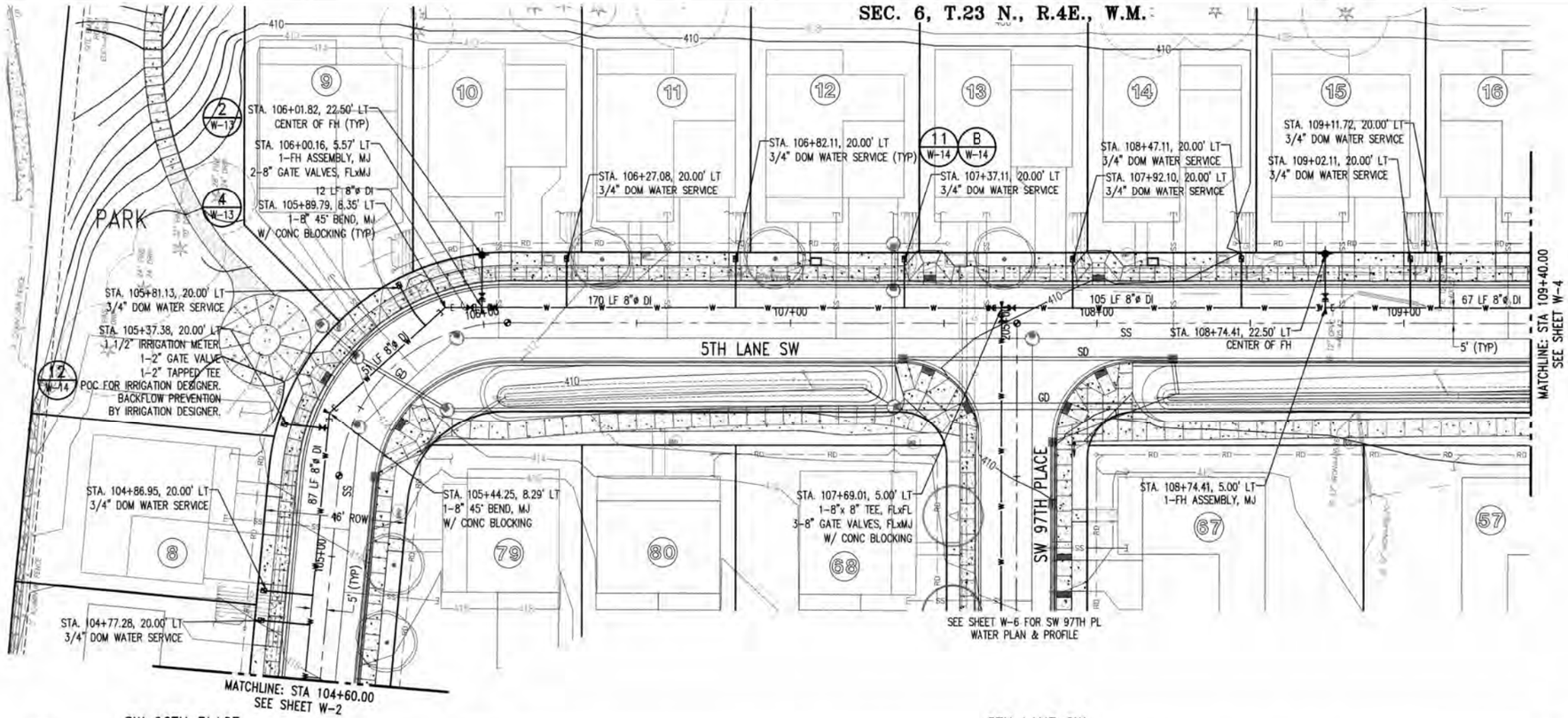
GREENBRIDGE DIVISION 8

SW 97TH STREET PLAN AND PROFILE

BASE MAP
SHEET 4 OF 16
DRAWING
W-2

Feb 27, 2020 - 12:55pm brinds
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SEC. 6, T.23 N., R.4E., W.M.

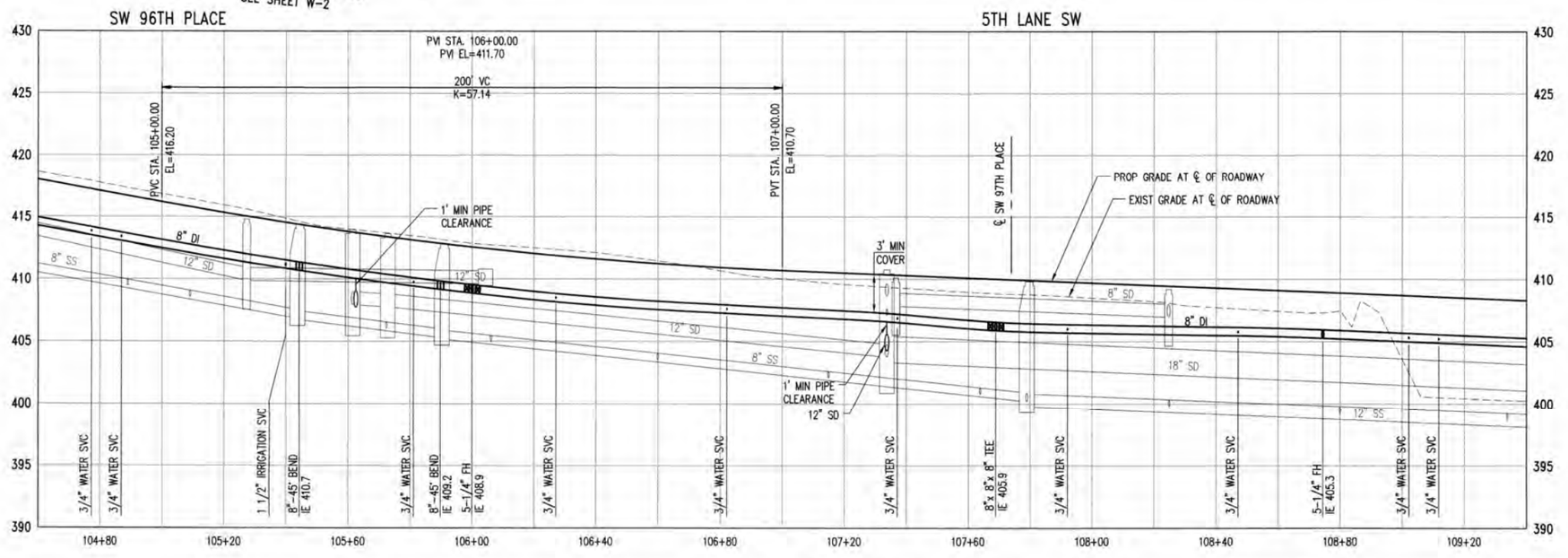


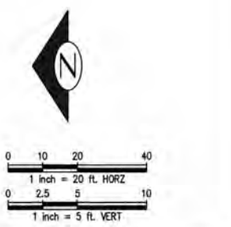


KEY MAP
NTS

CONSTRUCTION NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE AND MATERIAL OF EXISTING WATERMAIN IN THE PRESENCE OF WD#20 INSPECTOR. PREPARE A SKETCH REFLECTING SEQUENCE FOR SHUTTING DOWN AND CONNECTING TO EXIST. WATERMAINS FOR APPROVAL BY WD#20 INSPECTOR.
2. NO CONNECTION TO THE EXISTING SYSTEM SHALL BE MADE UNTIL AFTER PRESSURE AND PURITY TEST ACCEPTANCE AND AUTHORIZATION BY WD#20.
3. EXISTING FEATURES ARE NOT SHOWN FOR CLARITY. CONTRACTOR SHALL REFER TO THE SURVEY PLANS AND FIELD OBSERVATION FOR UTILITIES AND EXIST. STRUCTURES THAT MAY BE ENCOUNTERED DURING TRENCHING.





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Water District 20
KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: DATE 3/5/20

DEA #25270.5

NO.	BY	DATE	REVISIONS
2		02/27/20	REVISED PER KCWD#20 COMMENTS
1		02/05/20	ORIGINAL SUBMITTAL

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www.kpff.com

MARK A. VELEBA — STATE OF WASHINGTON — 24751 — REGISTERED PROFESSIONAL ENGINEER
2/28/2020

KING COUNTY
WATER DISTRICT NO. 20
WATER MAIN EXTENSION

Greenbridge

SCALE	DES. FLD. BK.	CST. FLD. BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

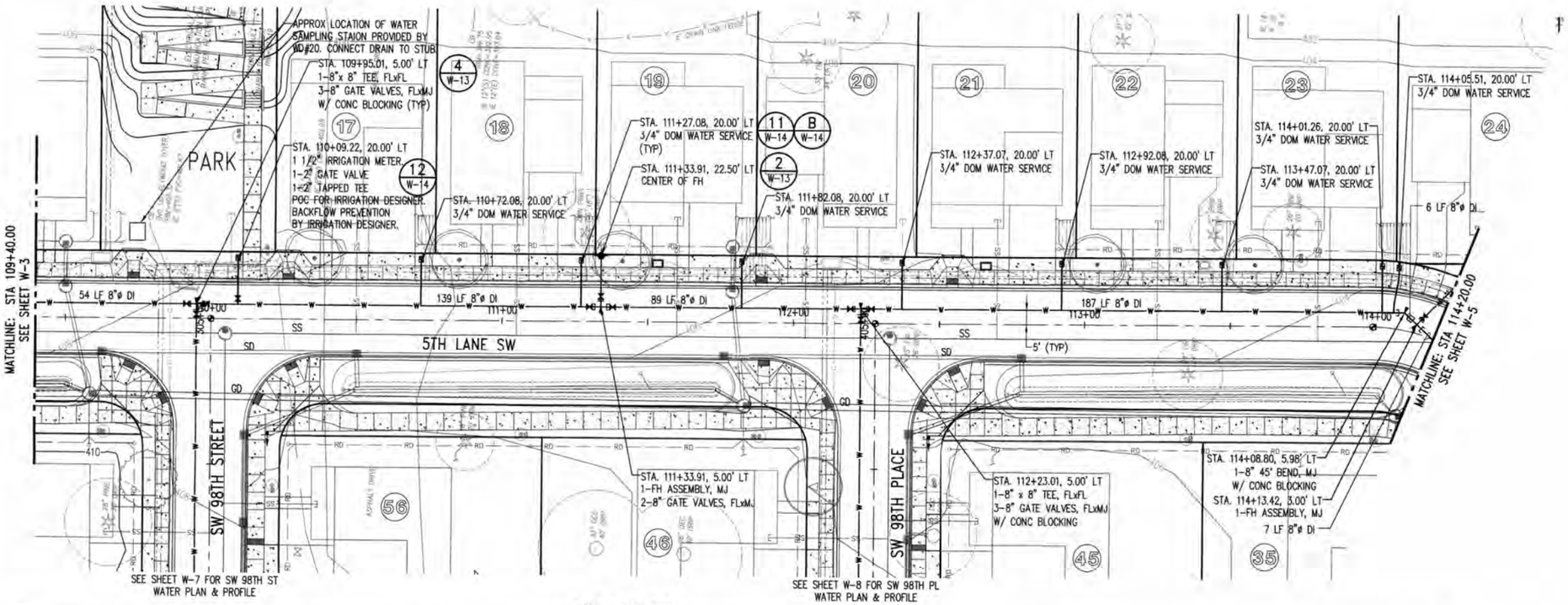
GREENBRIDGE DIVISION 8

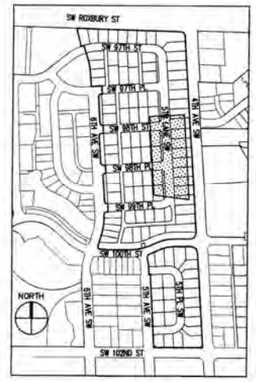
5TH LANE SW PLAN AND PROFILE

BASE MAP
SHEET 5 OF 16
DRAWING W-3

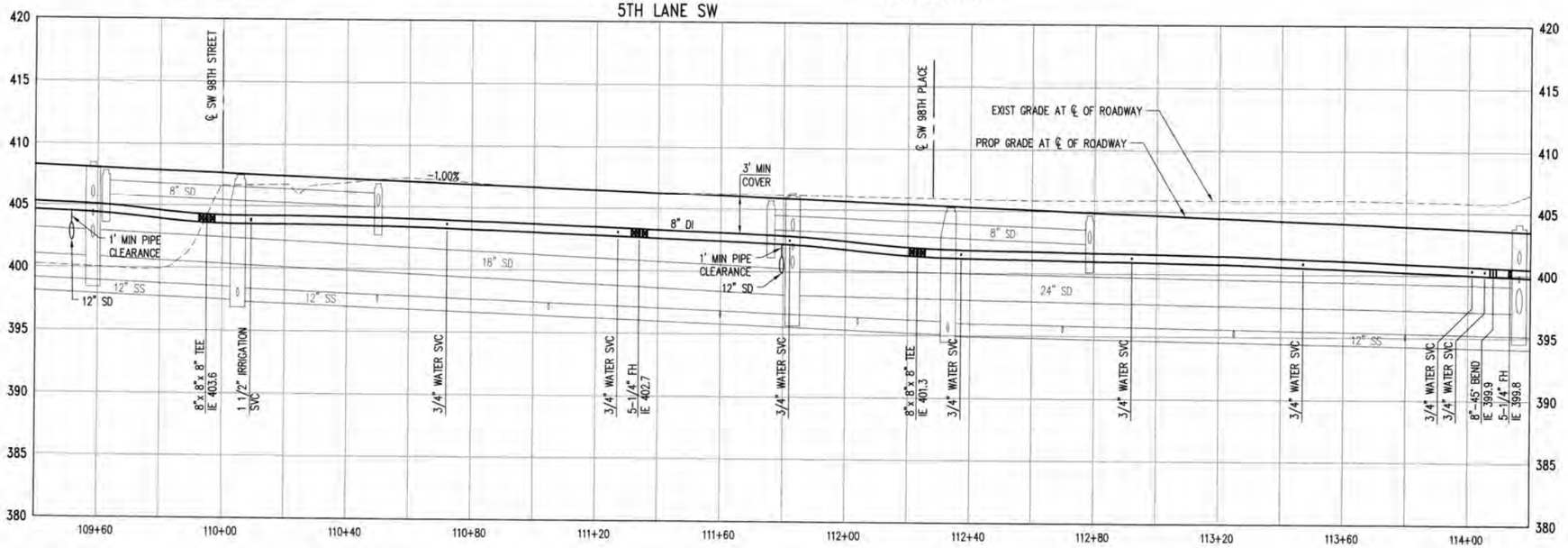
Feb 27, 2020 - 12:57pm brians Z:\1600001-1600999\1600206 (Greenbridge)\CAD\Design\02-Design Development\WD20\03-GB WD20 2 5TH AVE SW.dwg

SEC. 6, T.23 N., R.4E., W.M.





KEY MAP
NTS



CONSTRUCTION NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE AND MATERIAL OF EXISTING WATERMAIN IN THE PRESENCE OF WD#20 INSPECTOR. PREPARE A SKETCH REFLECTING SEQUENCE FOR SHUTTING DOWN AND CONNECTING TO EXIST. WATERMAINS FOR APPROVAL BY WD#20 INSPECTOR.
2. NO CONNECTION TO THE EXISTING SYSTEM SHALL BE MADE UNTIL AFTER PRESSURE AND PURITY TEST ACCEPTANCE AND AUTHORIZATION BY WD#20.
3. EXISTING FEATURES ARE NOT SHOWN FOR CLARITY. CONTRACTOR SHALL REFER TO THE SURVEY PLANS AND FIELD OBSERVATION FOR UTILITIES AND EXIST. STRUCTURES THAT MAY BE ENCOUNTERED DURING TRENCHING.

0 10 20 40
1 inch = 20 ft. HORZ
0 2.5 5 10
1 inch = 5 ft. VERT

811 Call 811 two business days before you dig

20 Water District KING COUNTY
APPROVED CONSTRUCTION DRAWINGS. Michael D. Hoch DATE 3/5/20

DEA #25270.5

NO.	BY	DATE	REVISIONS
2		02/27/20	REVISED PER KCHD#20 COMMENTS
1		02/05/20	ORIGINAL SUBMITTAL

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MARK A. VELTKAMP STATE OF WASHINGTON 24711 REGISTERED PROFESSIONAL ENGINEER 2/28/2020

KING COUNTY WATER DISTRICT NO. 20
WATER MAIN EXTENSION

Greenbridge

SCALE	DES. FLD. BK.	CST. FLD. BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

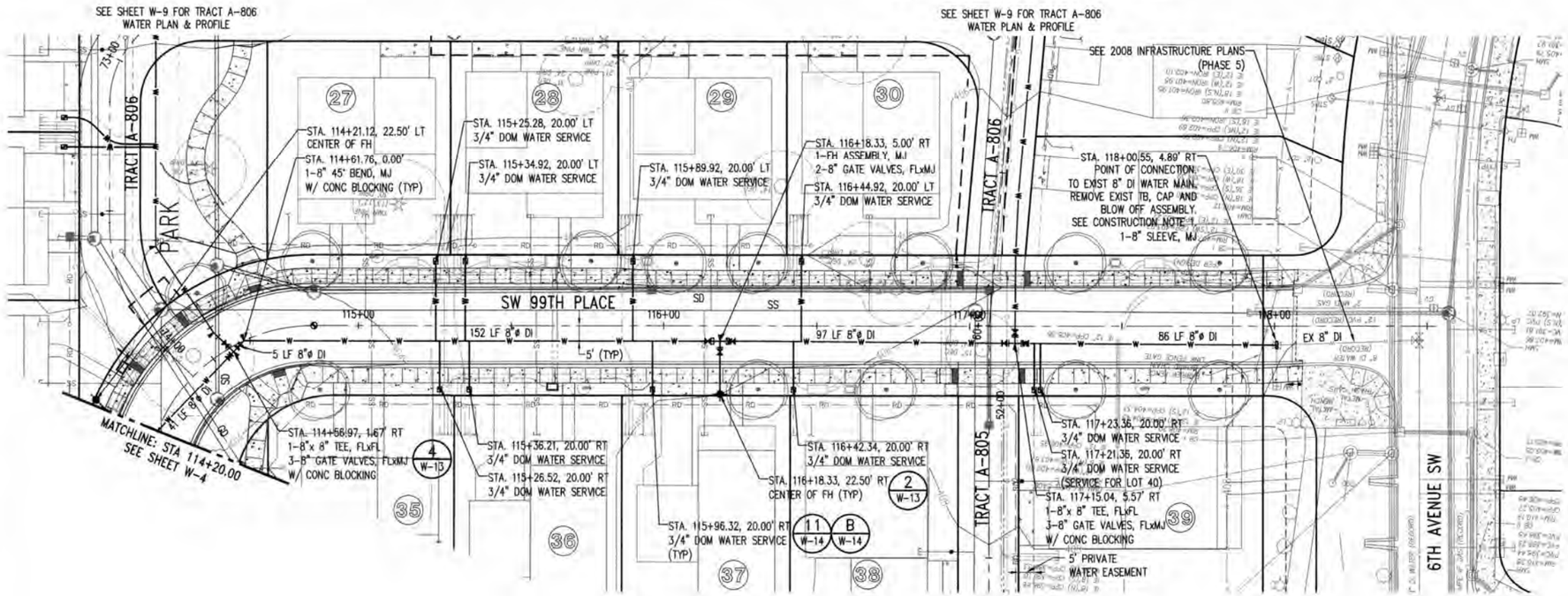
DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
5TH LANE SW PLAN AND PROFILE

BASE MAP
SHEET 6 OF 16
DRAWING W-4

File: Z:\1600001-1600999\1600206 Greenbridge\CAD\Design\02-Design Development\WD20\03-GB W020 2 5TH AVE SW.dwg
Feb 27, 2020 - 12:58pm brandt

SEC. 6, T.23 N., R.4E., W.M.

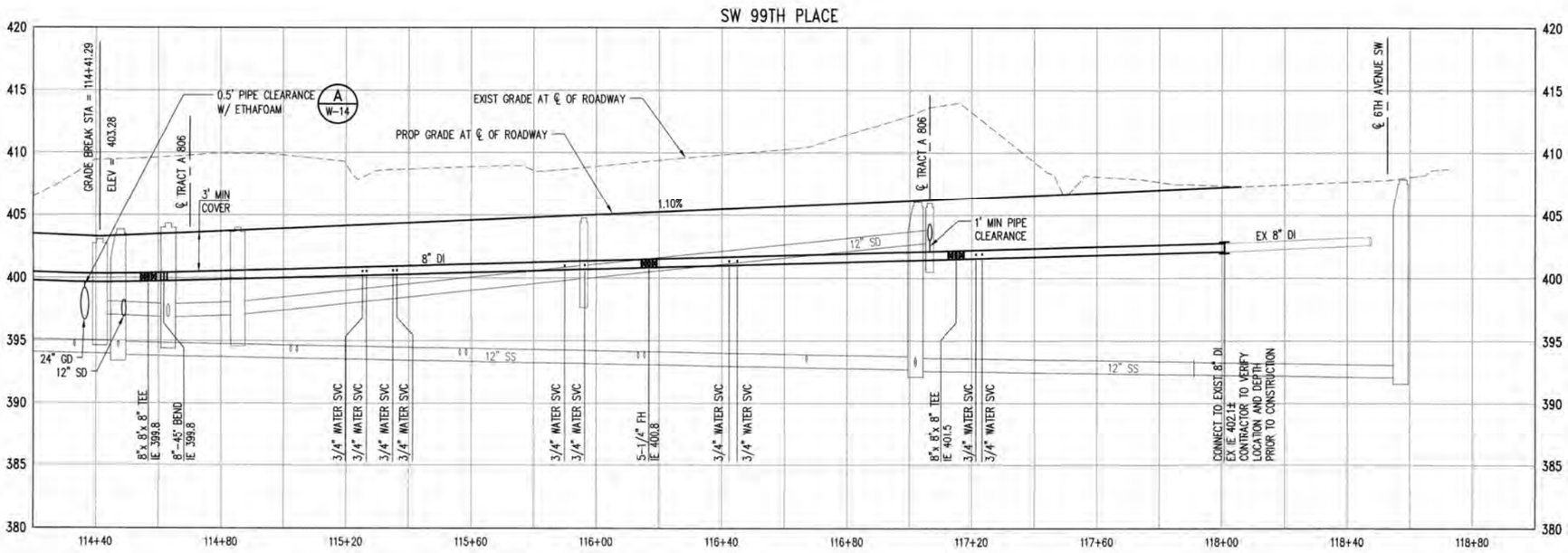




KEY MAP
NTS

CONSTRUCTION NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE AND MATERIAL OF EXISTING WATERMAIN IN THE PRESENCE OF WD#20 INSPECTOR. PREPARE A SKETCH REFLECTING SEQUENCE FOR SHUTTING DOWN AND CONNECTING TO EXIST. WATERMAINS FOR APPROVAL BY WD#20 INSPECTOR.
2. NO CONNECTION TO THE EXISTING SYSTEM SHALL BE MADE UNTIL AFTER PRESSURE AND PURITY TEST ACCEPTANCE AND AUTHORIZATION BY WD#20.
3. EXISTING FEATURES ARE NOT SHOWN FOR CLARITY. CONTRACTOR SHALL REFER TO THE SURVEY PLANS AND FIELD OBSERVATION FOR UTILITIES AND EXIST. STRUCTURES THAT MAY BE ENCOUNTERED DURING TRENCHING.



0 10 20 40
1 inch = 20 ft. HORZ
0 2.5 5 10
1 inch = 5 ft. VERT

811 Call 811 two business days before you dig

Water District 20 KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: Michael D. Martin DATE 3/6/20

DEA #25270.5

NO.	BY	DATE	REVISIONS
2		02/27/20	REVISED PER KCWD#20 COMMENTS
1		02/05/20	ORIGINAL SUBMITTAL

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1601 5th Avenue, Suite 1600
Seattle, WA 98101
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MARK A. VELDER STATE OF WASHINGTON 12471 REGISTERED PROFESSIONAL ENGINEER
2/28/2020

KING COUNTY WATER DISTRICT NO. 20
WATER MAIN EXTENSION

Greenbridge

SCALE HORIZ: VERT:	DES. FLD. BK. NO. PG.	CST. FLD. BK. NO. PG.

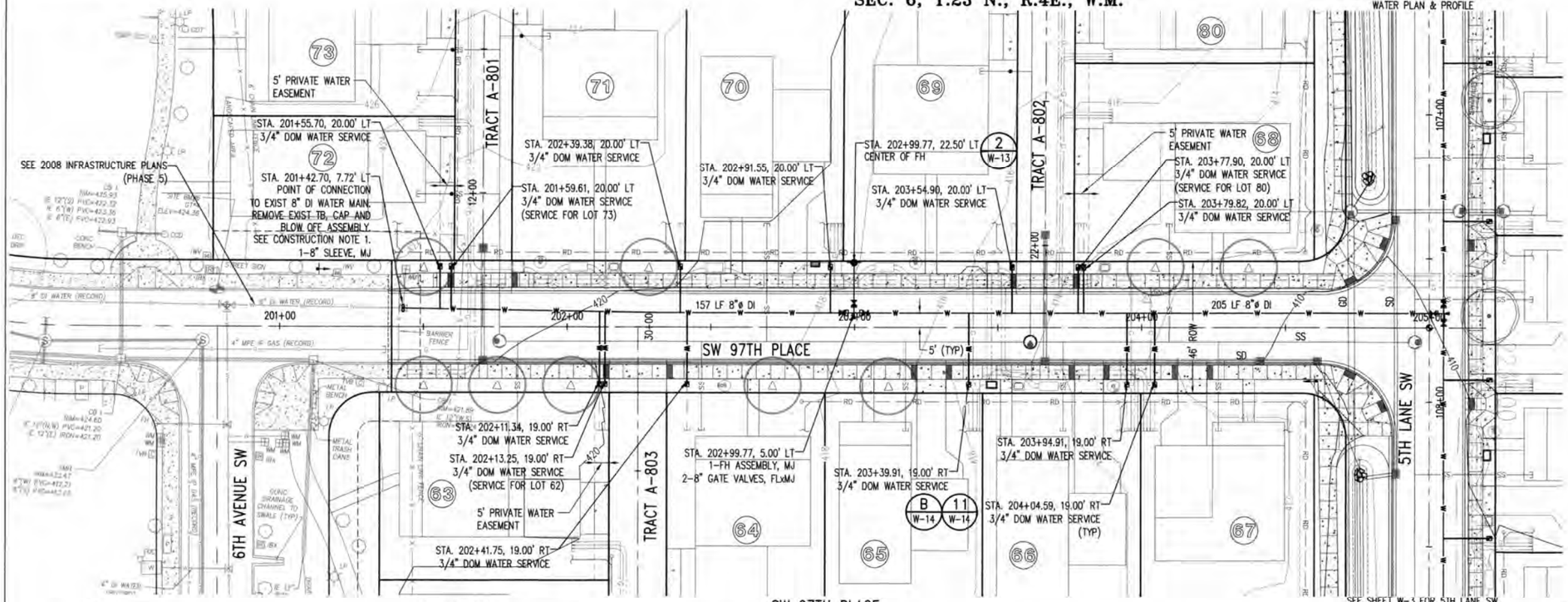
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PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

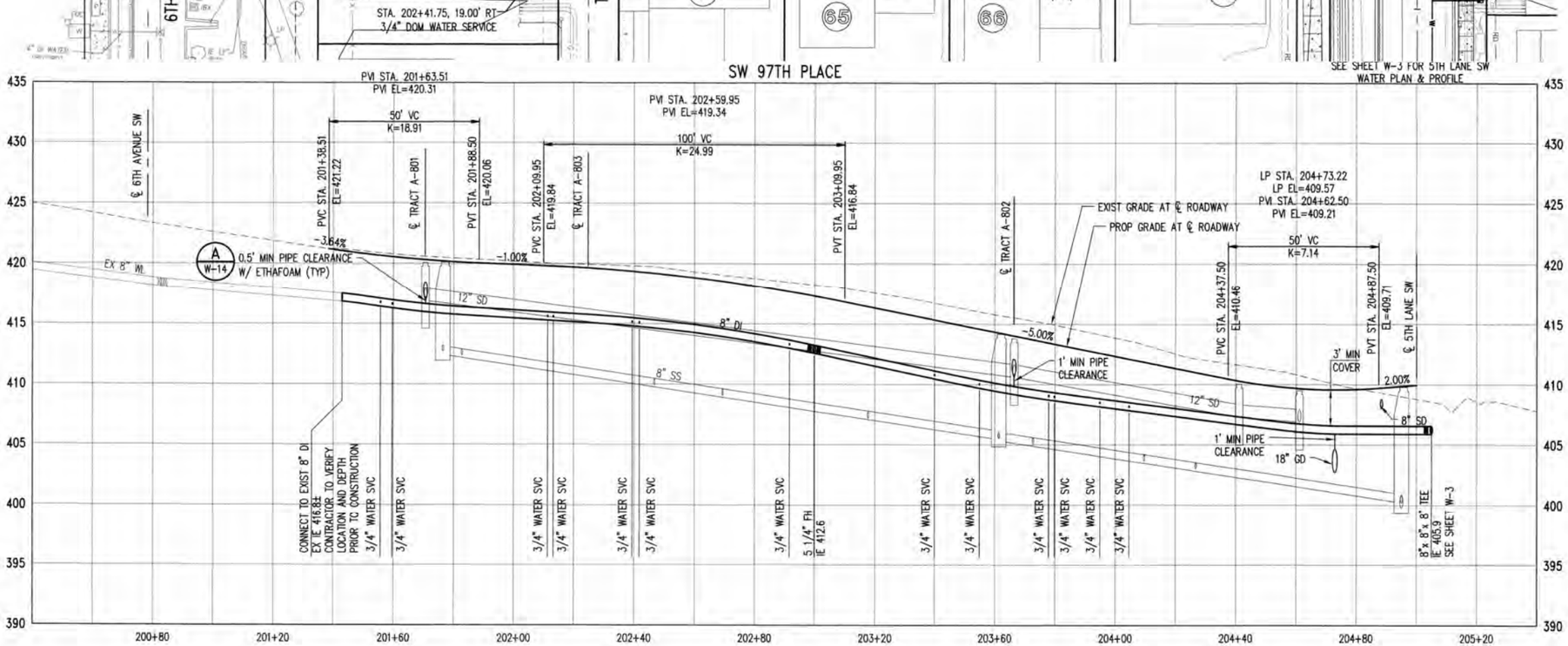
KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
SW 99TH PLACE PLAN AND PROFILE

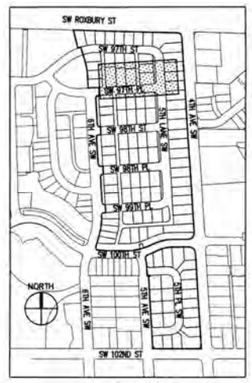
BASE MAP
SHEET 7 OF 16
DRAWING
W-5

Feb 27, 2020 - 12:58pm brown
Z:\1600001-1600999\1600206 (Greenbridge)\CADD\Design\02-Design Development\WD20\03-08 WD20 2 SW AVE SW.dwg

SEC. 6, T.23 N., R.4E., W.M.







KEY MAP
NTS

CONSTRUCTION NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE AND MATERIAL OF EXISTING WATERMAIN IN THE PRESENCE OF WD#20 INSPECTOR. PREPARE A SKETCH REFLECTING SEQUENCE FOR SHUTTING DOWN AND CONNECTING TO EXIST. WATERMAINS FOR APPROVAL BY WD#20 INSPECTOR.
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N

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1 inch = 20 ft. HORZ
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Water District 20 KING COUNTY
APPROVED CONSTRUCTION DRAWINGS Michael B. Martin DATE 2/5/20

DEA #25270.5

NO.	BY	DATE	REVISIONS
2		02/27/20	REVISED PER KCHA/#20 COMMENTS
1		02/05/20	ORIGINAL SUBMITTAL

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02/28/2020

KING COUNTY WATER DISTRICT NO. 20
WATER MAIN EXTENSION

Greenbridge

SCALE	DES. FLD. BK.	CST. FLD. BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

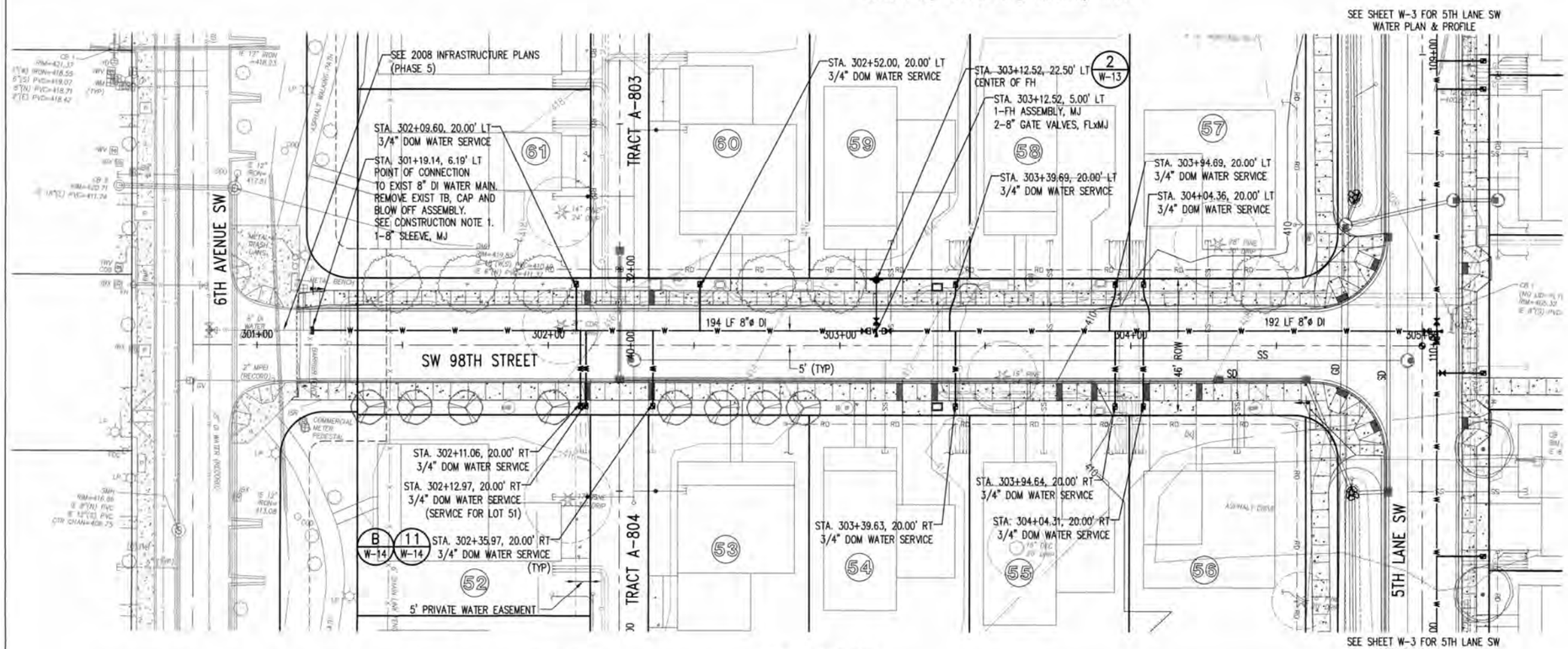
GREENBRIDGE DIVISION 8

SW 97TH PLACE PLAN AND PROFILE

BASE MAP
SHEET 8 OF 16
DRAWING W-6

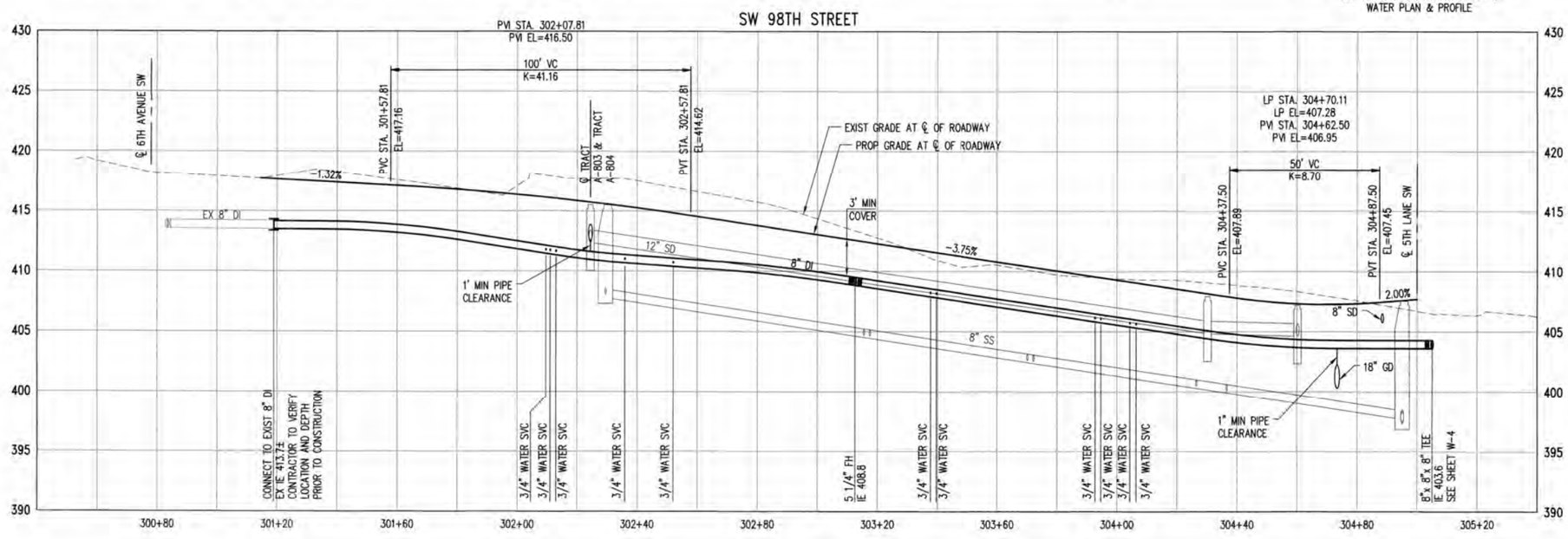
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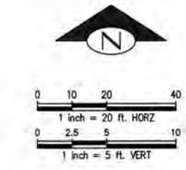
SEC. 6, T.23 N., R.4E., W.M.





KEY MAP
NTS





CONSTRUCTION NOTES:

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Water District 20 KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: Michael D. Martin DATE: 3/5/20

DEA #25270.5

NO.	BY	DATE	REVISIONS
2		02/27/20	REVISED PER KCWD#20 COMMENTS
1		02/05/20	ORIGINAL SUBMITTAL

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MARK A. VELEBA STATE OF WASHINGTON 24711 REGISTERED PROFESSIONAL ENGINEER
2/28/2020

KING COUNTY
WATER DISTRICT NO. 20
WATER MAIN EXTENSION

Greenbridge

SCALE	DES. FLD. BK.	CST. FLD. BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

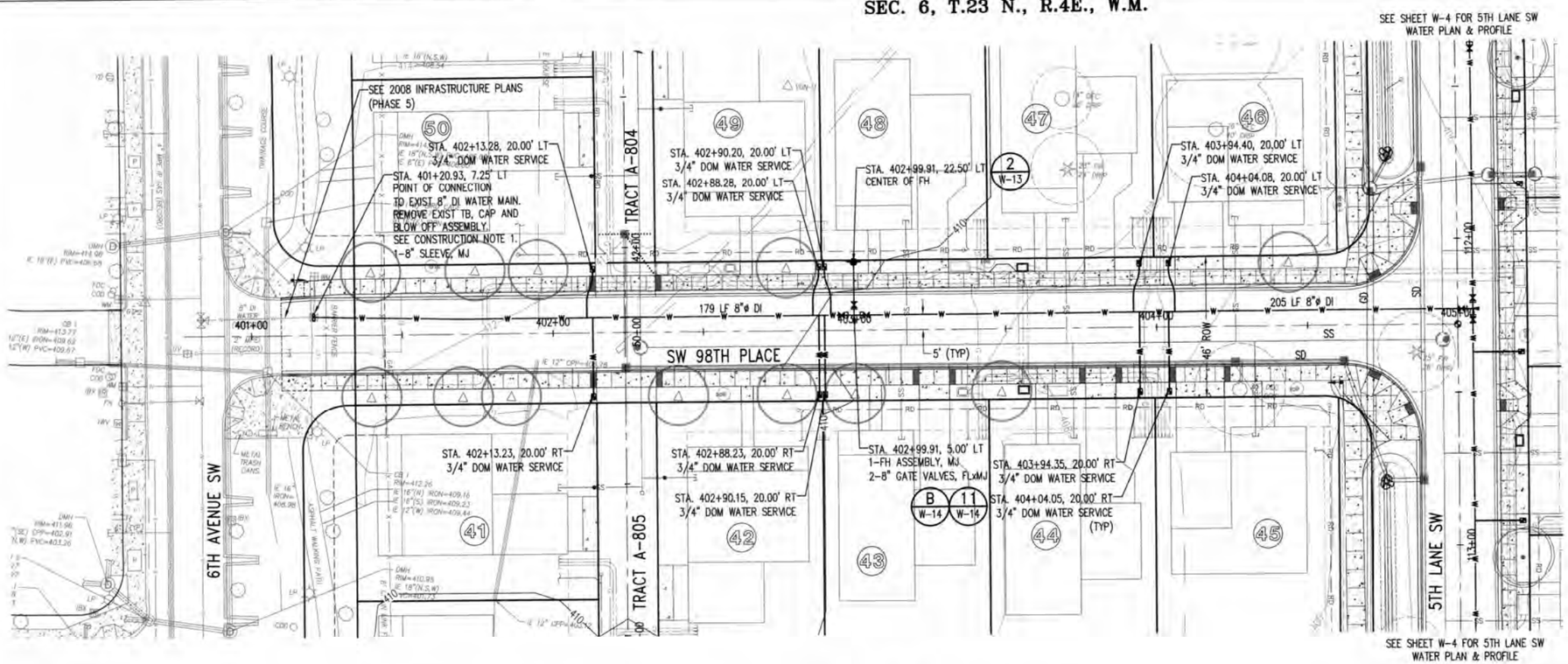
DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
SW 98TH STREET PLAN AND PROFILE

BASE MAP
SHEET 9 OF 16
DRAWING W-7

Feb 27, 2020 - 12:59pm knoell
Z:\1600201-1600399\1600206 (Greenbridge)\CADD\Design\02-Design Development\WD20\05-08 WD20 7 SW 98TH ST.dwg

SEC. 6, T.23 N., R.4E., W.M.

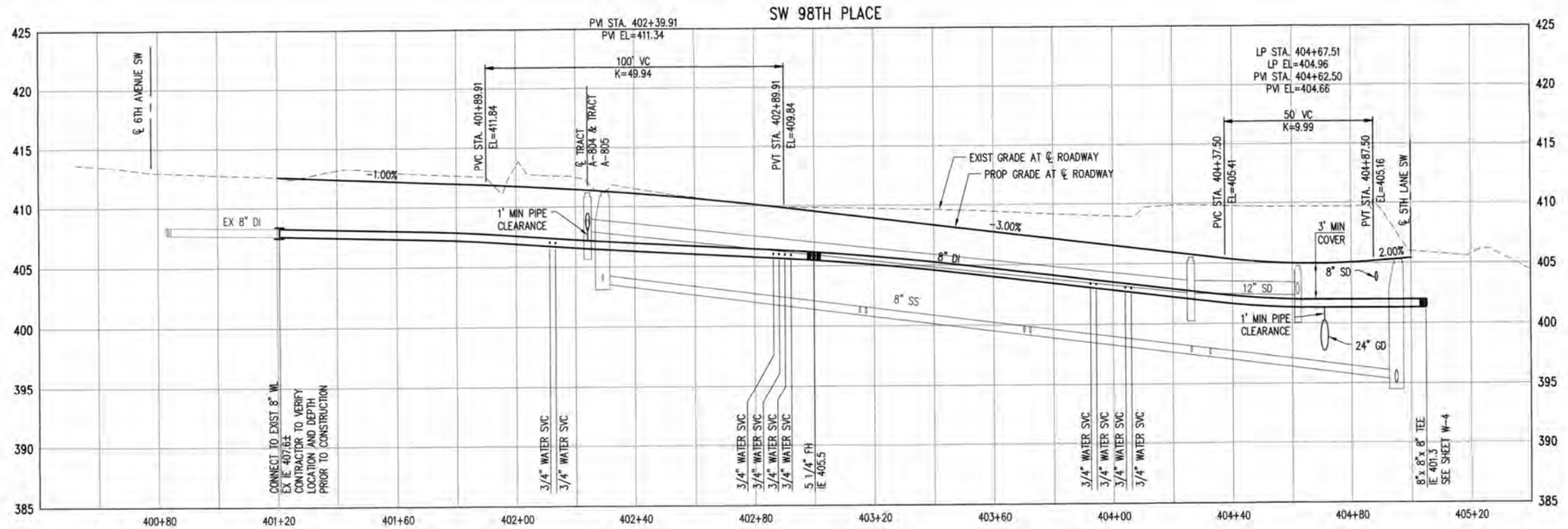


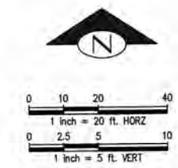


KEY MAP
NTS

CONSTRUCTION NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE AND MATERIAL OF EXISTING WATERMAIN IN THE PRESENCE OF WD#20 INSPECTOR. PREPARE A SKETCH REFLECTING SEQUENCE FOR SHUTTING DOWN AND CONNECTING TO EXIST. WATERMAINS FOR APPROVAL BY WD#20 INSPECTOR.
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Water District 20, KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: [signature] DATE 2/28/20

DEA #25270.5

NO.	BY	DATE	REVISIONS
2		02/27/20	REVISED PER KCHA#20 COMMENTS
1		02/05/20	ORIGINAL SUBMITTAL

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MARA A. VELDER STATE OF WASHINGTON 24711 REGISTERED PROFESSIONAL ENGINEER
2/28/2020

KING COUNTY
WATER DISTRICT NO. 20
WATER MAIN EXTENSION

Greenbridge

SCALE	DES. FLD. BK.	CST. FLD. BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

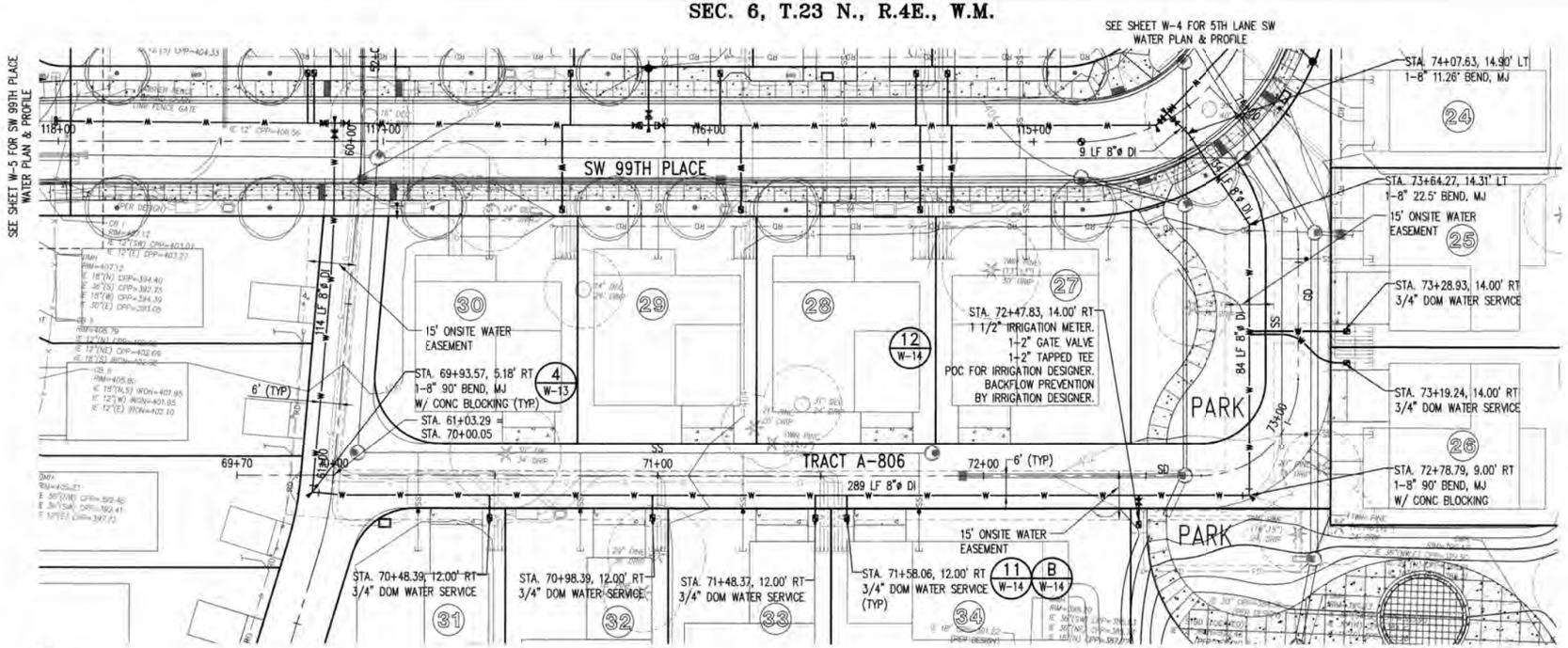
DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
SW 98TH PLACE PLAN AND PROFILE

BASE MAP
SHEET 10 OF 16
DRAWING
W-8

Feb 27, 2020 - 1:10pm bhanks
Z:\1600001-1600999\1602065 (Greenbridge)\CAD\Design\02-Design Development\W\02010\06-08 W020 8 SW 98TH PL.dwg

SEC. 6, T.23 N., R.4E., W.M.



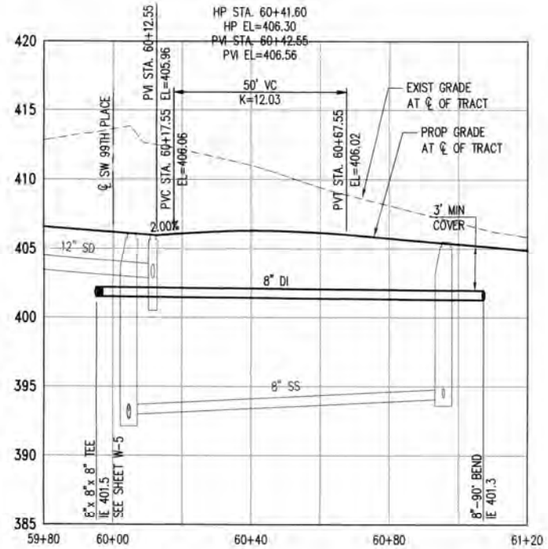


KEY MAP
NTS

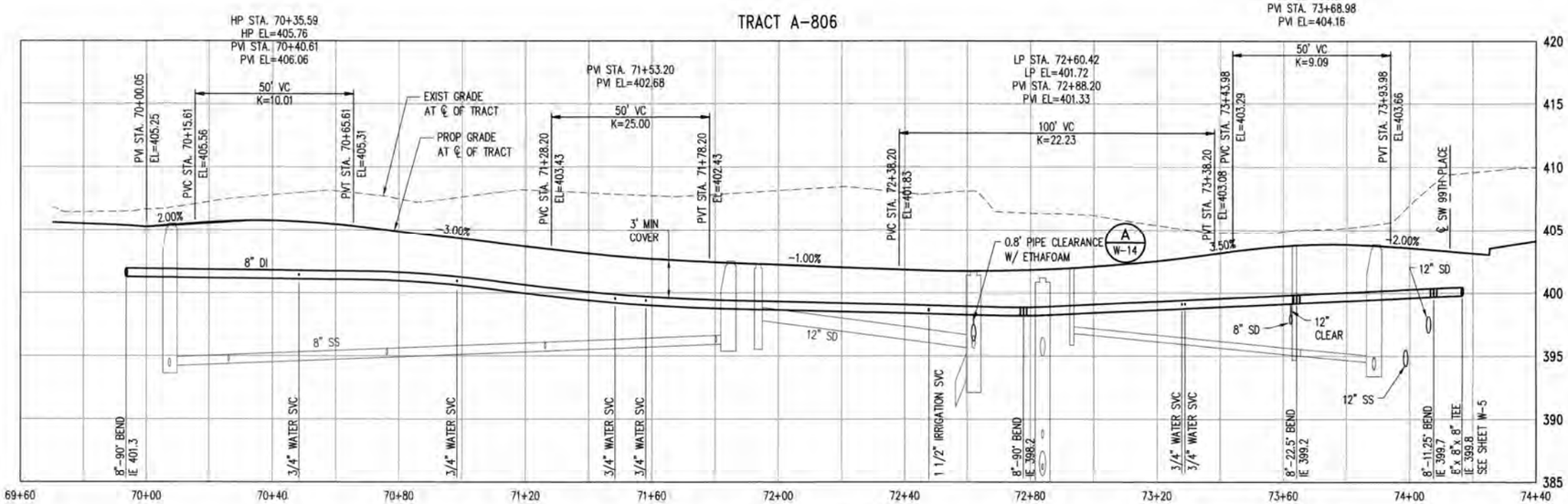
CONSTRUCTION NOTES:

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TRACT A-806 (WEST)



TRACT A-806





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Water District 20 KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: DATE 3/5/20

DEA #25270.5

NO.	BY	DATE	REVISIONS: DESCRIPTION
2		02/27/20	REVISED PER KCWD20 COMMENTS
1		02/05/20	ORIGINAL SUBMITTAL

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MARK J. VELDE STATE OF WASHINGTON DATE REGISTERED PROFESSIONAL ENGINEER
2/28/2020

KING COUNTY WATER DISTRICT NO. 20

WATER MAIN EXTENSION

Greenbridge

SCALE	DES. FLD. BK.	CST. FLD. BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

GREENBRIDGE DIVISION 8

TRACT A-806 PLAN AND PROFILE

BASE MAP
SHEET 11 OF 16
DRAWING
W-9

Feb 27, 2020 - 1:00pm brooks Z:\1600201 - 1600999\1600206 (Greenbridge)\CAD\Design\02- Design Development\W2020\08-cdr W2020 10 ALLEY C.dwg

SEC. 6, T.23 N., R.4E., W.M.

STA. 602+24.21, 20.00' LT
3/4" DOM WATER METER

STA. 602+33.55, 20.00' LT
3/4" DOM WATER METER

STA. 602+88.55, 20.00' LT
3/4" DOM WATER METER

STA. 602+21.68
22.50' LT
CENTER OF FH

STA. 601+99.86, 20.00' LT
3/4" DOM WATER METER (TYP)

STA. 601+63.25, 20.00' LT
3/4" DOM WATER METER

5TH PLACE SW

141 LF 8"ø DI

STA. 603+43.56, 20.00' LT
3/4" DOM WATER METER

5' (TYP)

MATCHLINE: STA 603+60.00
SEE SHEET W-11

STA. 603+47.98, 20.00' RT
3/4" DOM WATER METER

STA. 602+77.98, 20.00' RT
3/4" DOM WATER METER

STA. 602+68.30, 20.00' RT
3/4" DOM WATER METER

STA. 602+20.68, 5.20' LT
1-FH ASSEMBLY, MJ

17 LF 8"ø DI

STA. 602+05.62,
8.99' LT
1-8" 45° BEND, MJ
W/ CONC BLOCKIING

STA. 601+58.27, 8.99' LT
1-8" 45° BEND, MJ
W/ CONC BLOCKING (TYP)

STA. 601+19.26, 20.00' LT
3/4" DOM WATER METER

STA. 601+13.42, 20.00' LT
3/4" DOM WATER METER

STA. 600+61.55, 20.00' LT
1" IRRIGATION METER.
POC FOR IRRIGATION DESIGNER.
BACKFLOW PREVENTION
BY IRRIGATION DESIGNER.

STA. 600+33.44, 5.00' LT
1-8" 11.25° BEND, MJ
W/ CONC BLOCKING

SW 100TH PLACE

601+00

127 LF 8"ø DI

STA. 600+01.56, 11.34' LT
1-8" 11.25° BEND, MJ
W/ CONC BLOCKING

STA. 599+95.00, 11.34' LT
POINT OF CONNECTION
CUT INTO EXIST 8" DI WATER LINE W/
1-8"x8" TEE, FLxFL
3-8" GATE VALVES, FLxMJ
2-8" DI SPOOLS (LENGTH AS REQ'D)
2-8" SLEEVES, MJ
W/ CONC BLOCKING
SEE CONSTRUCTION NOTE #1

SW 100TH STREET

32 LF 8"ø DI

7 LF 8"ø DI

STA. 600+00.00
=STA 705+77.70

5TH AVENUE SW

707+00

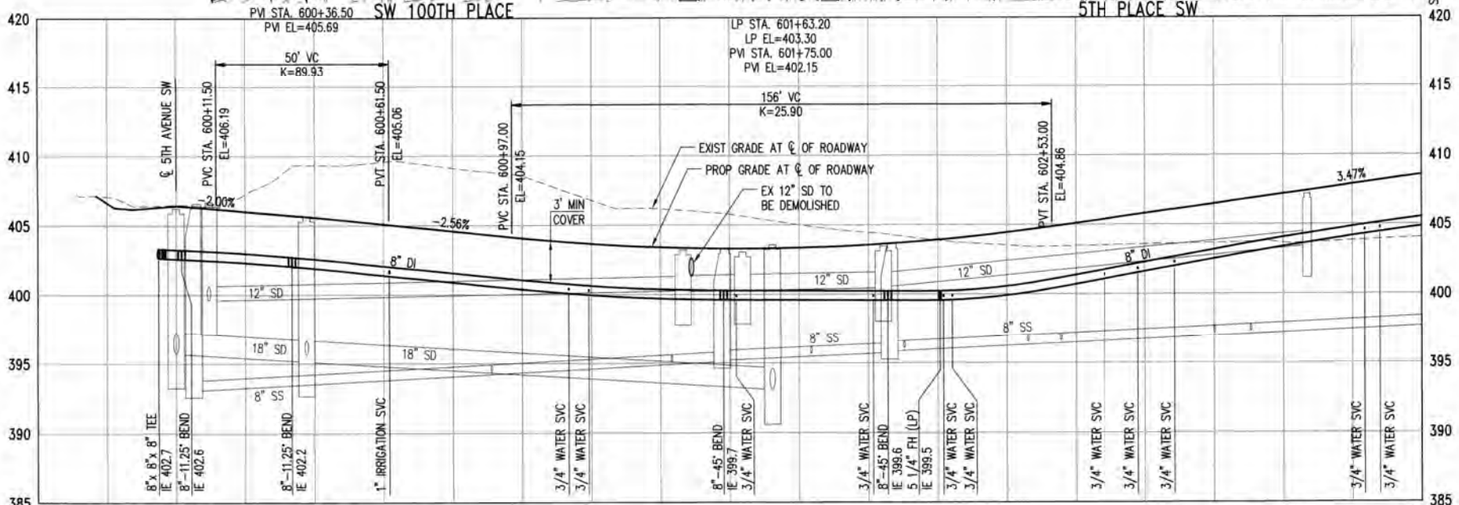
SEE SHEET W-12 FOR 5TH AVENUE SW
WATER PLAN & PROFILE

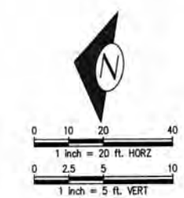


KEY MAP
NTS

CONSTRUCTION NOTES:

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Water District 20
KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: Michael D. Martin DATE 3/6/20

DEA #25270.5

NO.	BY	DATE	DESCRIPTION
			REVISIONS
2		02/27/20	REVISED PER KCWD#20 COMMENTS
1		02/05/20	ORIGINAL SUBMITTAL

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MARK A. FELDER
STATE OF WASHINGTON
24781
REGISTERED
PROFESSIONAL ENGINEER
2/28/2020

KING COUNTY
WATER DISTRICT NO. 20
WATER MAIN EXTENSION

Greenbridge

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

SCALE	DES. FLD. BK.	CST. FLD. BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

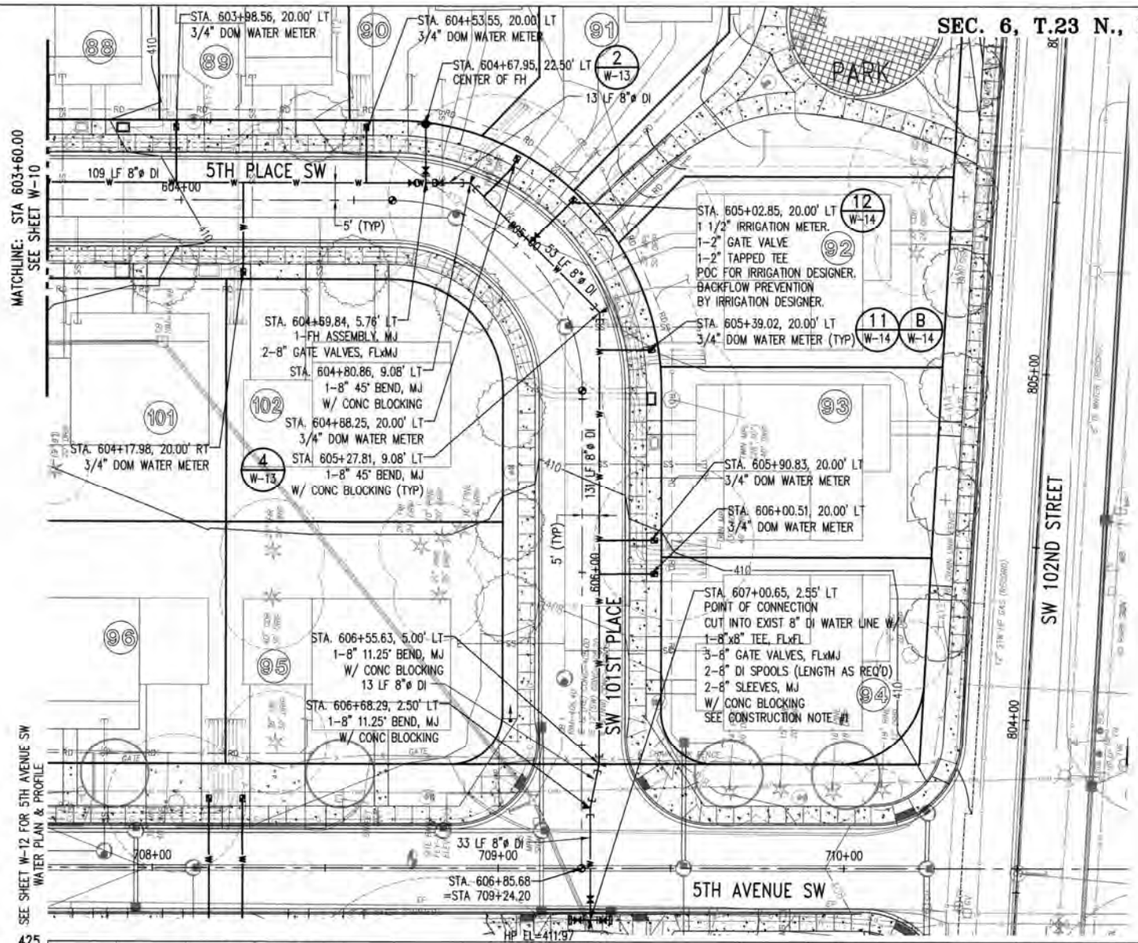
GREENBRIDGE DIVISION 8

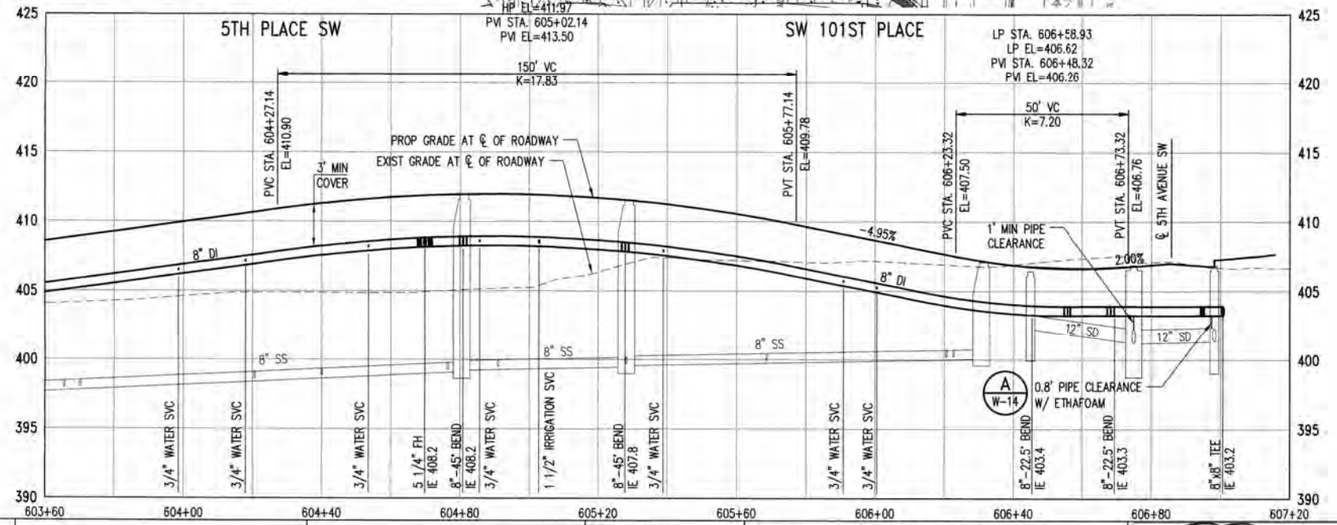
SW 100TH PLACE AND 5TH PLACE SW PLAN AND PROFILE

BASE MAP:
SHEET: 12 OF 16
DRAWING
W-10

Feb 27, 2020 - 1:01pm bnorth Z:\1600001-1600999\1600206 (Greenbridge)\CAD\01 Design\02 - Design Development\W2001.09 - GB W8020 11 ROAD E-N.dwg

SEC. 6, T.23 N., R.4E., W.M.







KEY MAP
NTS

CONSTRUCTION NOTES:

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N

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1 inch = 5 ft. VERT

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Water District 20
KING COUNTY
APPROVED CONSTRUCTION DRAWINGS
DATE 2/5/20

DEA #25270.5

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MARK A. VELDEE STATE OF WASHINGTON 24711 REGISTERED PROFESSIONAL ENGINEER
2/28/2020

KING COUNTY WATER DISTRICT NO. 20

WATER MAIN EXTENSION

Greenbridge

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HORIZ:	NO.	NO.
VERT:	PG.	PG.

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

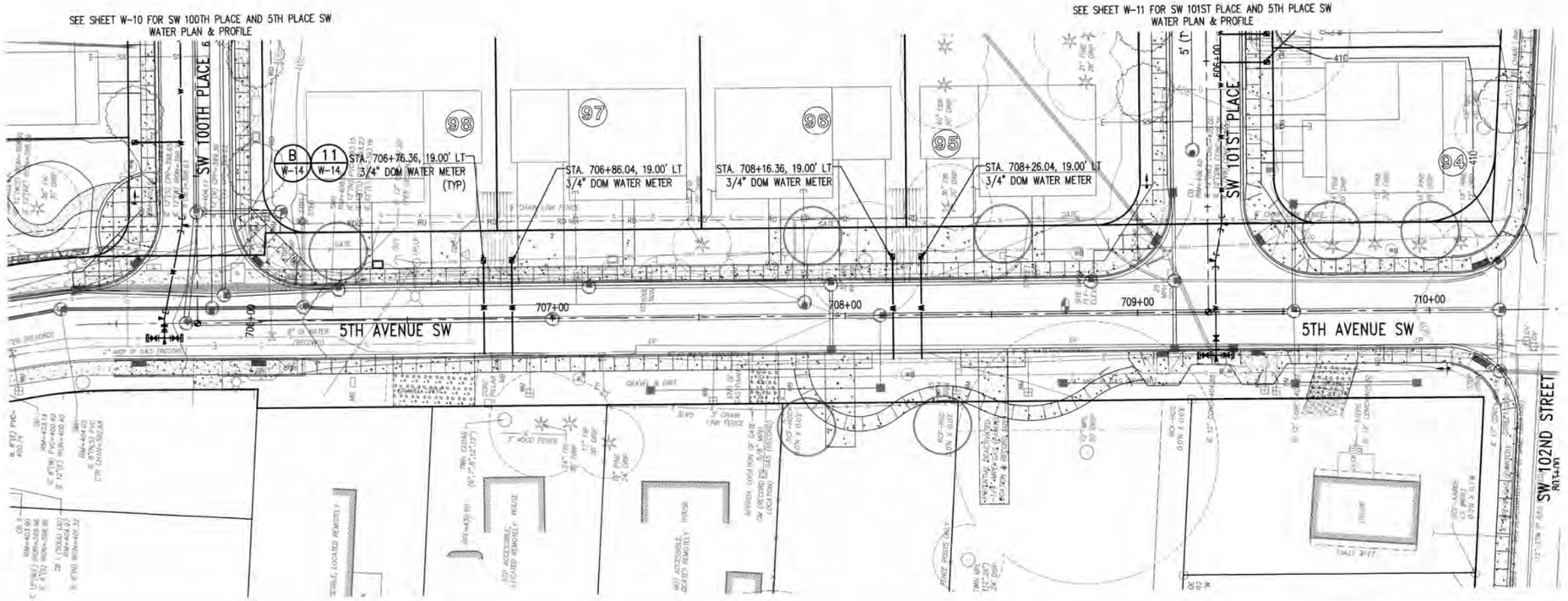
GREENBRIDGE DIVISION 8

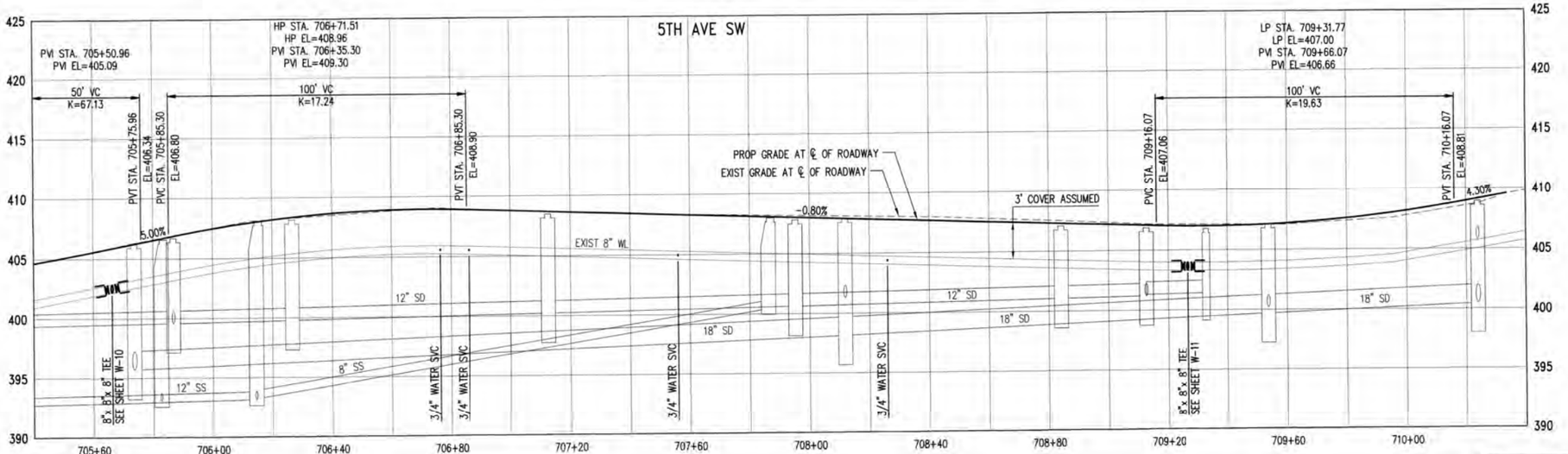
5TH PLACE SW AND SW 101ST PLACE PLAN AND PROFILE

BASE MAP
SHEET 13 OF 16
DRAWING
W-11

Feb 27, 2020 - 1:01pm brandi
Z:\1600001-1600999\1600206 (Greenbridge)\Design\04XX\Design\02-Design Development\W20\09-GB W020 11 ROAD E-fig.dwg

SEC. 6, T.23 N., R.4E., W.M.







KEY MAP
NTS

CONSTRUCTION NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE AND MATERIAL OF EXISTING WATERMAIN IN THE PRESENCE OF WD#20 INSPECTOR. PREPARE A SKETCH REFLECTING SEQUENCE FOR SHUTTING DOWN AND CONNECTING TO EXIST. WATERMAINS FOR APPROVAL BY WD#20 INSPECTOR.
2. NO CONNECTION TO THE EXISTING SYSTEM SHALL BE MADE UNTIL AFTER PRESSURE AND PURITY TEST ACCEPTANCE AND AUTHORIZATION BY WD#20.
3. EXISTING FEATURES ARE NOT SHOWN FOR CLARITY. CONTRACTOR SHALL REFER TO THE SURVEY PLANS AND FIELD OBSERVATION FOR UTILITIES AND EXIST. STRUCTURES THAT MAY BE ENCOUNTERED DURING TRENCHING.

N

0 10 20 40
1 inch = 20 ft. HORZ
0 2.5 5 10
1 inch = 5 ft. VERT

811 Call 811 two business days before you dig

Water District 20, KING COUNTY
APPROVED CONSTRUCTION DRAWINGS Michael D Mutti DATE 7/5/20

DEA #25270.5

NO.	BY	DATE	REVISIONS
2		02/27/20	REVISED PER KCHD#20 COMMENTS
1		02/05/20	ORIGINAL SUBMITTAL

kpff
1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com

DARIA A. VELDER — STATE OF WASHINGTON — 24731 — REGISTERED PROFESSIONAL ENGINEER
2/28/2020

KING COUNTY WATER DISTRICT NO. 20
WATER MAIN EXTENSION

Greenbridge

SCALE	DES. FLD. BK.	CST. FLD. BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

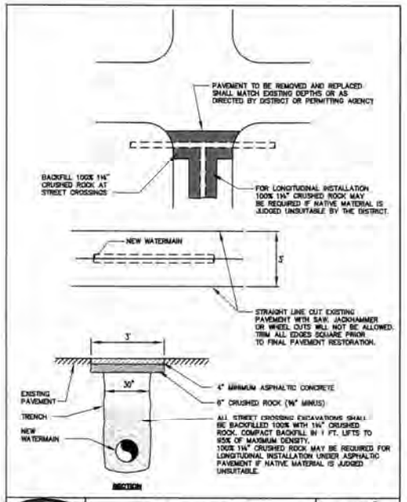
KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

GREENBRIDGE DIVISION 8

5TH AVENUE SW PLAN AND PROFILE

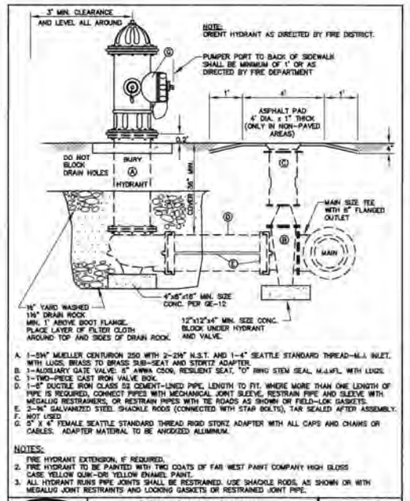
BASE MAP
SHEET 14 OF 16
DRAWING
W-12

Feb 27, 2020 - 10:02pm jwoods Z:\1600001 - 1600999\1600206 (Greenbridge)\CAD\Design\02-Design Development\MD07\09-08 WD20 11 ROAD E-N.dwg



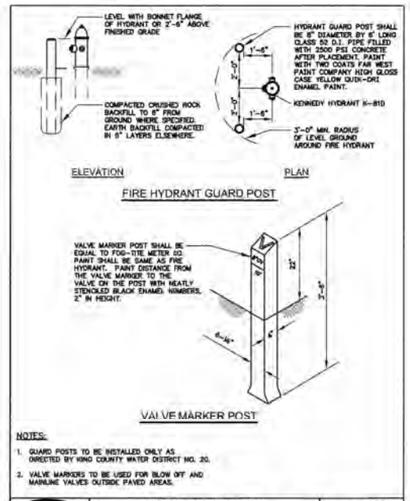
STANDARD DETAIL
PAVEMENT RESTORATION
DWG. NO. W-01

PAVEMENT RESTORATION
NTS
1



STANDARD DETAIL
SHORT SIDE
FIRE HYDRANT ASSEMBLY
DWG. NO. W-02

SHORT SIDE
FIRE HYDRANT ASSEMBLY
NTS
2

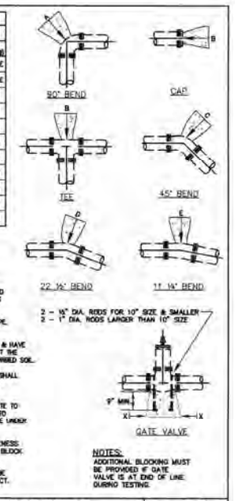


STANDARD DETAIL
FIRE HYDRANT GUARD POST
AND VALVE MARKER POST
DWG. NO. W-03

FIRE HYDRANT GUARD POST
AND VALVE MARKER POST
NTS
3

THRUST BLOCK – TABLE
MINIMUM BEARING AREA AGAINST UNDISTURBED SOIL, SQUARE FEET

PIPE SIZE	A	B	C	D	E	∠ (DEG)
4"	3	2	2	2	2	NONE
6"	4	4	2	2	2	NONE
8"	7	6	4	2	2	4
10"	11	10	6	3	2	6
12"	16	14	9	5	3	9
14"	22	19	12	6	3	12
16"	29	25	16	8	4	16
18"	36	31	20	10	5	20
20"	45	39	24	13	6	24
22"	54	47	29	15	6	28
24"	64	56	35	18	9	35



NOTES:
1. BEARING AREA CONCRETE THRUST–BLOCK BASED ON 200 PSI PRESSURE AND SAFE SOIL BEARING LOAD OF 2000 POUNDS PER SQUARE FOOT.
2. AREAS MUST BE ADJUSTED FOR OTHER SIZE PIPE, PRESSURES & SOIL CONDITIONS.
3. CONCRETE BLOCKING SHALL BE CAST IN PLACE & HAVE MINIMUM OF 1½ SQUARE FOOT BEARING AGAINST THE FITTING AND BE POURED AGAINST FIRM UNDISTURBED SOIL.
4. BLOCK SHALL BEAR AGAINST FITTINGS ONLY & SHALL BE CLEAR OF JOINTS TO PERMIT TAKING UP OR DISMANTLING JOINT.
5. CONTRACTOR SHALL INSTALL BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE AS WELL AS TO CONTINUOUSLY RESISTING OPERATING PRESSURE UNDER ALL CONDITIONS OF SERVICE.
6. CONTRACTOR TO PROVIDE 4 MIL MIN. THICKNESS POLYETHYLENE SHEET BETWEEN CONCRETE BLOCK AND FITTING.
7. 2X2X3 HALF–SIZE ECOLOGY BLOCKS MAY BE SUBSTITUTED AS APPROVED BY THE DISTRICT.

NOTES:
ADDITIONAL BLOCKING MUST BE PROVIDED IF GATE VALVE IS AT END OF LINE DURING TESTING.

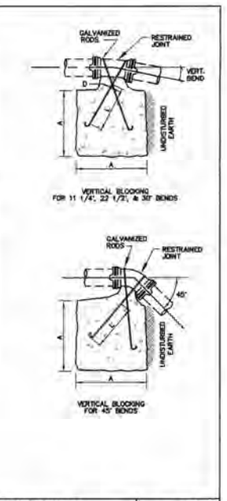
STANDARD DETAIL
HORIZONTAL
CONCRETE BLOCKING
DWG. NO. W-04

HORIZONTAL
CONCRETE BLOCKING
NTS
4

VERTICAL BLOCKING
FOR 11 1/4°, 22 1/2°, 30° BENDS

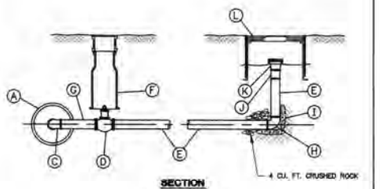
PIPE SIZE	V	S	D	T	A	D	L
4"	11 1/4°	8	2.0'	3/4"	1.5'		
	22 1/2°	11	2.2'				
	30°	17	2.5'				
6"	11 1/4°	11	2.5'	3/4"	2.0'		
	22 1/2°	25	2.9'				
	30°	41	3.5'				
8"	11 1/4°	16	3.0'	3/4"	2.0'		
	22 1/2°	47	3.6'				
	30°	70	4.1'	3/4"	2.5'		
12"	11 1/4°	32	3.2'	3/4"	2.5'		
	22 1/2°	88	4.5'	7/8"	3.0'		
	30°	132	5.1'				
16"	11 1/4°	70	4.1'	7/8"	3.0'		
	22 1/2°	184	5.7'	1 1/8"	4.0'		
	30°	275	6.6'	1"	4.0'		
20"	11 1/4°	91	4.5'	7/8"	3.0'		
	22 1/2°	235	6.1'	1 1/4"	4.0'		
	30°	350	6.8'	3/8"	4.5'		
24"	11 1/4°	128	5.0'	1"	3.5'		
	22 1/2°	330	6.8'	3/8"	4.0'		
	30°	480	7.9'	5/8"	5.5'		
VERTICAL BLOCKING FOR 45° BENDS							
4"	45°	30	3.1'	3/4"	2.0'		
6"		60	4.1'				
8"		133	5.0'				
12"		232	6.1'	3/4"	2.5'		
16"		476	7.8'	1 /8"	4.0'		
20"		560	8.2'	1 /4"			
24"		820	9.4'	3/8"	4.5'		

NOTES:
1. CONCRETE BLOCKING BASED ON 200 PSI PRESSURE AND 2500 PSI CONCRETE.



STANDARD DETAIL
VERTICAL
CONCRETE BLOCKING
DWG. NO. W-05

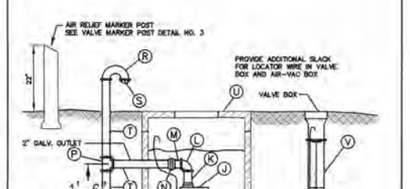
VERTICAL
CONCRETE BLOCKING
NTS
5



MARK	QUANTITY	ITEM DESCRIPTION
A	1	CAST IRON CAP OR PLUG WITH 2" I.P.T. TAP
B	1	2" CLOSE NIPPLE – BRASS
C	1	2" 90° ELBOW – THREADED – BRASS
D	1	2" GATE VALVE – RESILIENT SEAT
E	2	2" GALV. IRON PIPE – LENGTH AS REQUIRED
F	1	VALVE BOX
G	1	2" BRASS PIPE – 12" TO 18" LONG
H	1	2" 90° ELBOW WITH ¼" DRAIN HOLE – THREADED – GALV.
I	2	CONCRETE THRUST BLOCK – POURED IN PLACE
J	1	2" ADAPTER – F.I.P. x F.I.P. – GALV.
K	1	2" M.I.P. x 2½" M.I.P. HOSE CONNECTION AND 2½" CAP
L	1	MID–STATES METER BOX AND LID 1324–18

STANDARD DETAIL
BLOW–OFF ASSEMBLY
DWG. NO. W-06

BLOW OFF ASSEMBLY
NTS
6



SHEET 1 OF 2

STANDARD DETAIL
AIR VACUUM AND RELIEF
VALVE ASSEMBLY
DWG. NO. W-07

AIR VACUUM AND RELIEF
VALVE ASSEMBLY
NTS
7

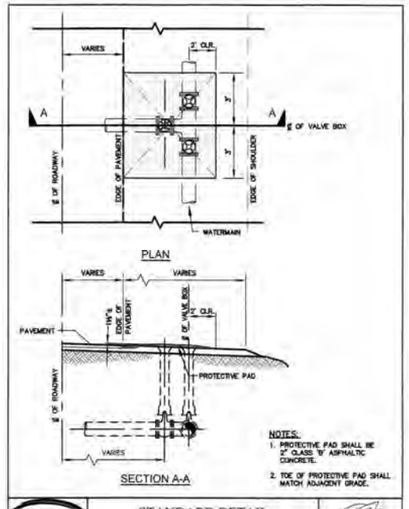
AIR AND VACUUM RELIEF MATERIAL

MARK	QUANTITY	ITEM DESCRIPTION
A	2	2" BRASS NIPPLE, LENGTH AS REQUIRED
B	1	M.J. TAPPING SLEEVE ON NEW MAIN OR FORD DOUBLE STRAP STAINLESS STEEL SADDLE
C	1	2" FORD CORP STOP FB1600 AWWA x F.I.P.
D	2	2" BRASS 90° STREET ELBOW (2 REQUIRED)
E	1	2" HDPE DR 9 CTS .300 PSI ASTM D2737 WITH 14 GAUGE LOCATING WIRE
F	1	2" RESILIENT SEAT GATE VALVE WITH 2" OPERATING NUT AND VALVE BOX
G	1	2" BRASS 90° BEND F.I.P. x F.I.P.
H	1	2" BRASS ADAPTER FXRD CB4 PACK x MIP
J	1	2" APCO AIR–VAC VALVE 143C
K	1	2" GALV. IRON PIPE – LENGTH = 6" OR LENGTH NEEDED
L	1	2" GALV. IRON 90° ELBOW
M	1	2" GALV. NIPPLE, LENGTH = 3"
N	1	2" GROUND JOINT UNION, GRINNEL FIG. 463
P	1	2" GALV. TEE
Q	1	2" GALV. CAP, WITH ¼" HOLE FOR DRAINAGE
R	1	2" GALV. RETURN BEND, OPEN PATTERN, PAINT BLUE ABOVE SUBGRADE
S	1	2" BEEHIVE STRAINER
T	3	2" GALV. IRON PIPE, LENGTH AS REQUIRED, PAINT BLUE ABOVE SUBGRADE
U	1	MID–STATES METER BOX 1730–18 WITH LID
V	1	VALVE BOX WITH LID

SHEET 2 OF 2

STANDARD DETAIL
AIR VACUUM AND RELIEF
VALVE ASSEMBLY
DWG. NO. W-08

AIR VACUUM AND RELIEF
VALVE ASSEMBLY
NTS
8



NOTES:
1. PROTECTIVE PAD SHALL BE 2" CLASS 'B' ASPHALTIC CONCRETE.
2. TOE OF PROTECTIVE PAD SHALL MATCH ADJACENT GRADE.

STANDARD DETAIL
VALVE BOX PROTECTIVE PAD
DWG. NO. W-09

VALVE BOX PROTECTIVE PAD
NTS
9

811 Call 811 two business days before you dig

Water District 20, KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: Michael D. Hopkins DATE: 3/5/20

DEA #25270.5

NO.	BY	DATE	REVISIONS
2		02/27/20	REVISED PER KCWD#20 COMMENTS
1		02/05/20	ORIGINAL SUBMITTAL

kpff
1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com

ALEX A. VELDER, STATE OF WASHINGTON, 24711, REGISTERED PROFESSIONAL ENGINEER, 2/28/2020

KING COUNTY
WATER DISTRICT NO. 20
WATER MAIN EXTENSION

Greenbridge

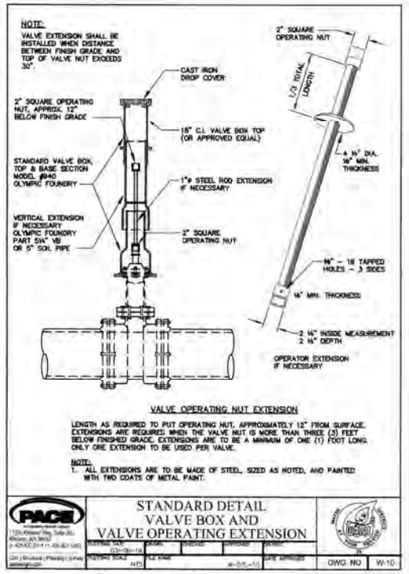
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HORIZ:	NO.	NO.
VERT:	PG.	PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
STANDARD DETAILS

BASE MAP
SHEET 15 OF 16
DRAWING
W–13

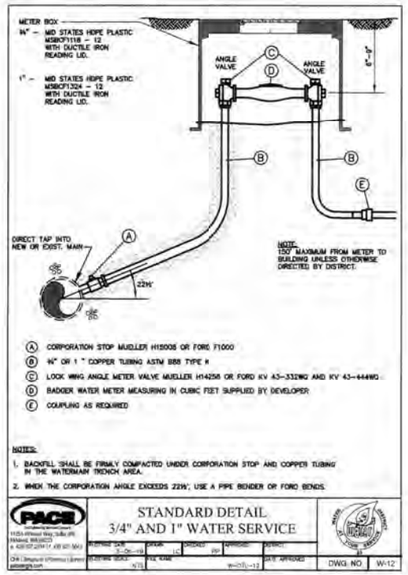
Feb 27, 2020 - 10:02am bhess
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VALVE BOX AND VALVE OPERATING EXTENSION

NTS

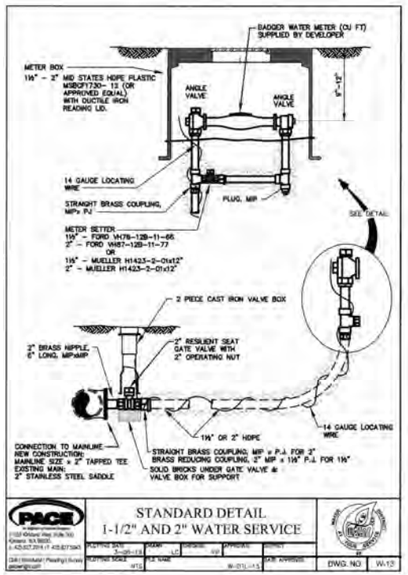
10



3/4" AND 1" WATER SERVICE

NTS

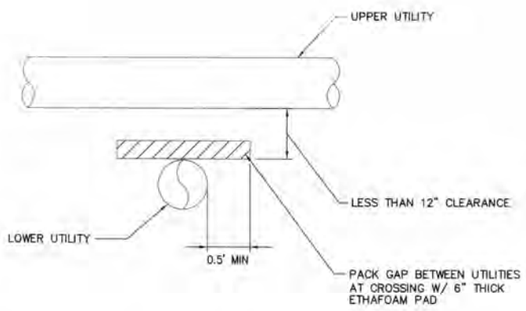
11



1-1/2" AND 2" WATER SERVICE

NTS

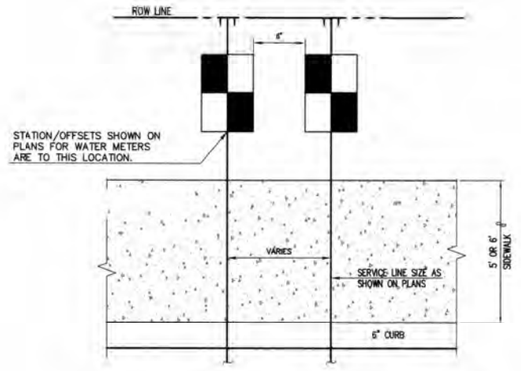
12



ETHAFOAM DETAIL

NTS

A



WATER METER DETAIL

NTS

B

811 Call 811 two business days before you dig

20 Water District KING COUNTY
APPROVED CONSTRUCTION DRAWINGS Michael D. Martin DATE 3/5/20

DEA #25270.5

NO.	BY	DATE	REVISIONS
2		02/27/20	REVISED PER KCWD20 COMMENTS
1		02/05/20	ORIGINAL SUBMITTAL

kpff 1601 5th Avenue, Suite 1600 Seattle, WA 98101 206.622.5822 www.kpff.com

BRAD J. VELEZ STATE OF WASHINGTON 24711 REGISTERED PROFESSIONAL ENGINEER 2/28/2020

KING COUNTY WATER DISTRICT NO. 20

WATER MAIN EXTENSION

Greenbridge

SCALE	DES. FLD. BK.	CST. FLD. BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	BJB
CHECKED	JCG
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

GREENBRIDGE DIVISION 8

STANDARD DETAILS

BASE MAP

SHEET 16 OF 16

DRAWING W-14

Feb 27, 2020 - 10:02am kmass Z:\1600001 - 1600999\1600206 (Greenbridge)\CAD\Design\07-design (Development\WD20\1)-GB WD20 12 DTL1.dwg

Department of Local Services
Permitting Division
35030 SE Douglas St., Ste. 210
Snoqualmie, WA 98065-9266
206-296-6600 TTY Relay 711

FIRE PERMIT - SYSTEMS & EVENTS

Permit type, Subtype:	Fire Permit Systems, Hydrant
Title:	3RD EXT ISS-GREENBRIDGE DIV VIII FIRE SYSTEM PERMIT
Description:	INSTALLATION FIRE HYDRANT/WATERMAIN EXTENSION FOR NEW PLAT (L03P0022, STRV17-0006)
List of Parcels:	2434900130
Site Address:	9800 4TH AVE NE 98115
Valuation:	$0.00
Applicant Name:	KING COUNTY HOUSING AUTHORITY
Applicant Address:	600 ANDOVER PARK WEST SEATTLE, WA 98188

Permit Number:	FIRP17-0397
Date Issued:	10/18/2017
Expiration Date:	10/18/2021
Permit Status:	Permit Extended

Comments and Conditions

1. Work Subject to Approved Plans and Conditions. Work Authorized by this permit is subject to the approved plans and corrections shown thereon and the attached conditions of permit approval. Failure to comply with all conditions once construction is begun may necessitate an immediate work stoppage until such time as compliance with the stipulated conditions is attained.

2. Posting on the job site. This permit must be posted on the job site at all times in a visible and readily accessible location.

3. Inspections Scheduling, Estimated Arrival Times* & Results. (*Building only)

Online: aca-prod.accela.com/kingco/ **IVR:** 206-971-9780 **Text:** 1-844-413-2653
For IVR Codes & Instructions: https://www.kingcounty.gov/depts/local-services/permits/permits-inspections/inspections.aspx

Inspection cutoff: 3:00 pm for next day inspections. Fire Inspection and land use requests will be confirmed and scheduled by a return phone call.

4. Expiration. Please note the expiration date on this permit located in the upper right corner. Permits are valid for one year from date of issuance or date of extension. Work must be substantially commenced within two years of permit issuance. Extensions beyond the third year shall only be granted to allow completion of the structure.

5. Compliance with State and Federal laws and the Endangered Species Act. The applicant is responsible for making a diligent inquiry regarding the need for concurrent state or federal permits to engage in the Work requested under this permit, and to obtain the required permits prior to issuance of this permit. It is understood that the granting of this permit shall not be construed as satisfying the requirements of other applicable Federal, State or Local laws or regulations. In addition this permit does not authorize the violation of regulations. In addition, the granting of this permit does not authorize the violation such "take" restrictions would be violated by work done pursuant to this permit, and is precluded by Federal law from undertaking work authorized by this permit if that work would violate the "take" restrictions set forth at 16 U.S.C. 8, 50 C.F.R. §17.21, 50 C.F.R. §223 and 50 C.F.R §224.

King County

Department of Local Services
Permitting Division

35030 SE Douglas St., Ste. 210
Snoqualmie, WA 98065-9266

206-296-6600 TTY Relay 711

Permit: FIRP17-0397
Date Issued: 10/18/2017
Expiration Date: 10/18/2021
Permit Status: Permit Extended

FIRE INSPECTION REPORT CARD

New Construction Fire Inspection 24-Hour Request Line **206-971-9780**
New Construction Fire Inspection General Information 206-296-6630

APPROVALS: (Followed by 3-digit inspection codes for use with the inspection Request Line)

1. Placement - Tank (291)	**2. Device Placement (259)**	**3. Nozzle/Head Placement (283)**	**4. Flow/Trip Test (273)**
By: _____	By: _____	By: _____	By: _____
5. Device/Panel Test (261)	**6. Flush Test (274)**	**7. Run Test (191)**	**8. Pressure Test (168)**
By: _____	By: _____	By: _____	By: _____
9. Insulation Cover (280)	**10. Rack/Pile Inspection (298)**	**11. Emergency Shut Off (067)**	**12. Underground (235)**
By: _____	By: _____	By: _____	By: _____
13. Hydrant/Watermain (245)	**14. Other (134)**	**15. Final Acceptance (077)**	
By: _____	By: _____	By: _____	

Notes:

ALL PERMITS:

a) Responsibility for the building's compliance with the provisions of the applicable King County Codes and for maintenance of the building rests exclusively with the permit applicants and their agents and the property owners.

b) King County inspection of the building and real property are spot checks designed to foster and encourage compliance with the applicable codes. Neither the approvals above nor the issuance of a Certificate of Occupancy guarantees or assures compliance with all applicable codes.

c) The Owner/Applicant's copy of any applicable manufacturer's installation instructions, the approved set of plans, and the permit shall be available at the time of inspection.

King County Local Services

PERMITS

Permit Issuance Package

- All documents must be available on site.
- Maintain documents to ensure durability through project completion.
- If documents are not available for scheduled inspections, re-inspection fees may be charged.

Before construction

1. Make sure to review your approved permit, plans, and conditions where applicable.
    a. Note the allowed working hours. See guidelines for construction noise: www.kingcounty.gov/noise
    b. Note the right-of-way connection detail.
    c. Note the erosion & sediment control plan.
2. Obtain any permits required by other agencies and follow the conditions. (ex. NPDES, FPA, & HPA)
3. Always call 811 before you dig.

Inspections

- 3 pm cut-off for next day inspection requests. Vashon – Thursdays only
- See Inspection Scheduling Instructions on page 2 for self-help options.
- Ensure your construction site is fully accessible throughout your scheduled inspection day.

Inspection scheduling instructions

New Self-help Tools Now Available

Schedule – Cancel - Reschedule – Get Results

Get estimated arrival time

Please see King County Construction Guidance for up-to-date inspection re-start guidelines information.

King County Permitting Inspection Services		
By phone *IVR (automated touch-tone)* **(206) 971-9780**	Make a choice from the voice menu.	Follow the voice prompts to enter your permit number, inspection code, contact number, and other details.
By Text **(844) 413-2653**	Text "*Schedule*" "*Cancel*", "*Reschedule*" or "*Results*". Text "*List*" for available inspection codes.	Follow the text prompts to enter your permit number, inspection code, and other details.
Online King County Permitting Portal No user account required	Go to www.kingcounty.gov/permits Click on Schedule Inspection Online	Search by permit number. . Click on Record Info drop down. . Select Inspections, then Schedule Inspections.

Scheduling Inspections:

Leave a contact phone number so the inspector can provide updated scheduling if needed.

Inspection Arrival Window:

Building permits - See instructions above to check online or by IVR automated phone after 7:30am.

Fire permits - You will receive a call back from the inspector with expected arrival date and time.

Turnaround Time:

Response time is contingent on several factors including but not limited to, the number of inspection requests, staff availability, site location, and inspection type. Foundation, mechanical/furnace permits, and missed previous-day appointments are considered top priority.

Ensure your construction site is fully accessible throughout your scheduled inspection day.

IVR Inspection Scheduling Codes

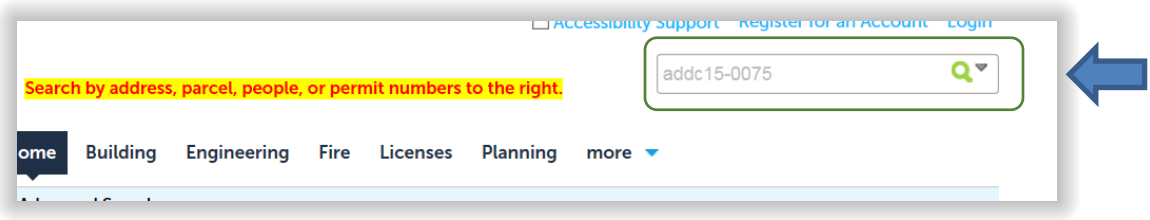
Building		Building		Fire	
Structure Removed	222	Temporary Occupancy	299	Placement - Tank	291
Pole Hole and Punch Pad	292	Other	134	Device Placement	259
Pad Placement	142	Pool Structure	293	Nozzle/Head Placement	283
Foundation Footing	086	Barrier Fence	027	Flow/Trip Test	273
Foundation Walls	089	Structural	220	Device/Panel Test	261
Foundation	087	Structure Removed	222	Flush Test	274
Hold Downs and Skirting	277	Insulation/Energy	060	Run Test	191
Under floor Inspection	300	**Site Inspection**		Pressure Test	168
Exterior Shear Wall	200	Pre-Construction Conference	160	Insulation Cover	280
Framing	090	Drainage BMP Installation	150	Rack/Pile Inspection	298
Mech./HVAC Inspection	282	Permit Extension Inspection	165	Emergency Shut Off	067
Interior Shear Wall	281	Wet Season Construction	375	Final Acceptance	077
Fire Rated Construction	082	Final Inspection-Critical	350	Other	134
Fire Inspection	266	Site Preparation	215		
Final Inspection	075	Final site	355		

Texting **Express Commands**	
Schedule S [permit number] [inspection code] [date]	*Cancel* C [permit number] [inspection code]
Reschedule RESCH [permit number] [inspection code] [date]	*Inspection Results* R [permit number] [inspection Code]

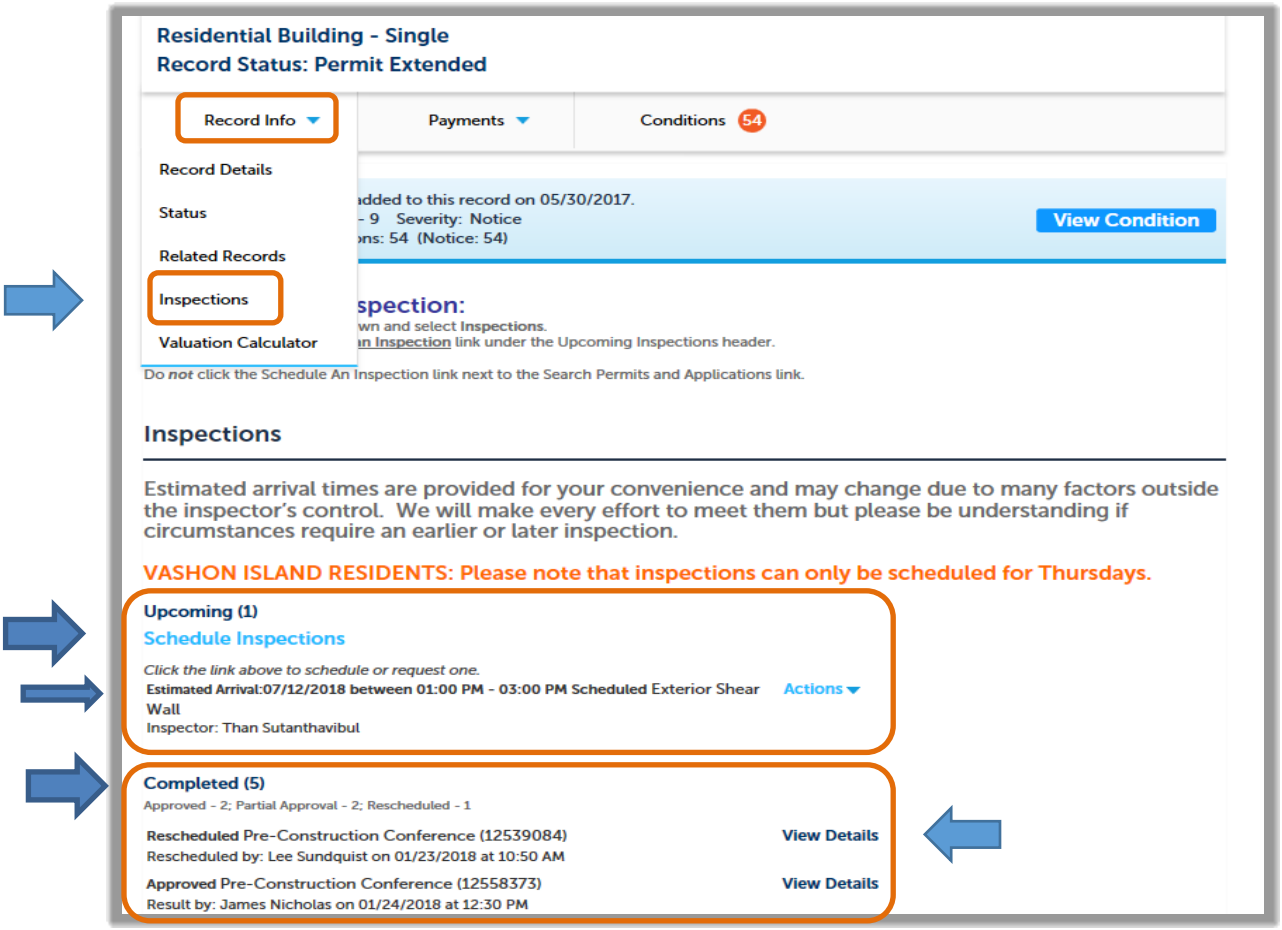
Permit issuance package, continued

Online Inspection Scheduling

1. Go to https://aca-prod.accela.com/kingco/
2. **Enter permit number** in top right corner and **click** . (Log in not required.)



3. Click the down arrow next to *Record Info*, then Click *Inspections*.
4. Click *Schedule Inspections*. Follow the prompts to select the desired inspection type.



Confirm Estimated Arrival Times & Obtain Inspection Results

- View estimated arrival times, inspector name, and results by following steps 1-2 above.
- Click on View Details for more information about a completed inspection.

Permit issuance package, continued

Other Permitting Agencies

Seattle – King County Public Health Department		
Plumbing & gas piping	On-site septic (OSS) & private wells	Public pools & spas
206-263-9566 Permit status	206-477-8050 OSS permit status	206-263-9566 Permit status

Washington State, Department of Labor & Industries	Puget Sound Energy
425-990-1430 Bellevue office or 206-835-1000 Tukwila office, or online Electrical inspections	1-888-321-7779 Electrical and gas hookups

Water, Sewer and Fire Districts	King County Districts Report (by address or parcel number)

Additional Resources and Information

King County

- Department of Local Services, Permitting Division (www.kingcounty.gov/permits)
- Permit Fees
- Interactive Mapping, iMap and Parcel Viewer
- On-line Permit Status, Invoice Payment and Inspection Scheduling
- IVR Inspection Scheduling, phone number and codes



King County Local Services

PERMITS

Inspection scheduling instructions

New Self-help Tools Now Available

Schedule – Cancel - Reschedule – Get Results

Get estimated arrival time

Please see King County Construction Guidance for up-to-date inspection re-start guidelines information.

King County Permitting Inspection Services		
By phone *IVR (automated touch-tone)* **(206) 971-9780**	Make a choice from the voice menu.	Follow the voice prompts to enter your permit number, inspection code, contact number, and other details.
By Text **(844) 413-2653**	Text "*Schedule*" "*Cancel*", "*Reschedule*" or "*Results*". Text "*List*" for available inspection codes.	Follow the text prompts to enter your permit number, inspection code, and other details.
Online King County Permitting Portal No user account required	Go to King County Permitting Portal	Search by permit number Click on *Record Info* drop down Select *Inspections*, then *Schedule Inspections*

Scheduling Inspections:

Leave a contact phone number so the inspector can provide updated scheduling if needed.

Inspection Arrival Window:

Building permits - See instructions above to check online or by IVR automated phone after 7:30am.

Fire permits - You will receive a call back from the inspector with expected arrival date and time.

Turnaround Time:

Response time is contingent on several factors including but not limited to, the number of inspection requests, staff availability, site location, and inspection type. Foundation, mechanical/furnace permits, and missed previous-day appointments are considered top priority.

Ensure your construction site is fully accessible throughout your scheduled inspection day.

Inspection scheduling instructions, continued

IVR Inspection Scheduling Codes

Building		Building		Fire	
Structure Removed	222	Temporary Occupancy	299	Placement - Tank	291
Pole Hole and Punch Pad	292	Other	134	Device Placement	259
Pad Placement	142	Pool Structure	293	Nozzle/Head Placement	283
Foundation Footing	086	Barrier Fence	027	Flow/Trip Test	273
Foundation Walls	089	Structural	220	Device/Panel Test	261
Foundation	087	Structure Removed	222	Flush Test	274
Hold Downs and Skirting	277	Insulation/Energy	060	Run Test	191
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Reschedule RESCH [permit number] [inspection code] [date]	*Inspection Results* R [permit number] [inspection Code]

Other Permitting Agencies

Inspection scheduling instructions, continued

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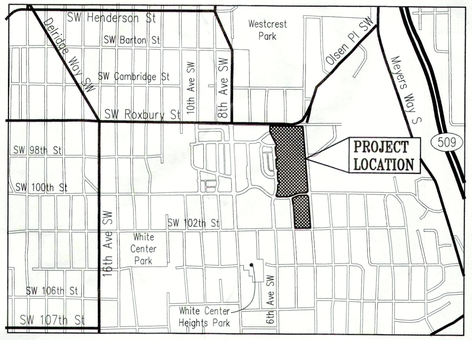
GREENBRIDGE DIVISION 8
FIRE PERMIT APPLICATION

SEC. 6, T.23 N., R.4E., W.M.

King County, Washington

SEPTEMBER 2017

PERMIT SUBMITTAL



VICINITY MAP

N.T.S.

APPROVED
OCT 05 2017
KING COUNTY
FIRE ENGINEERING

Contract No.

PROJECT DEVELOPER

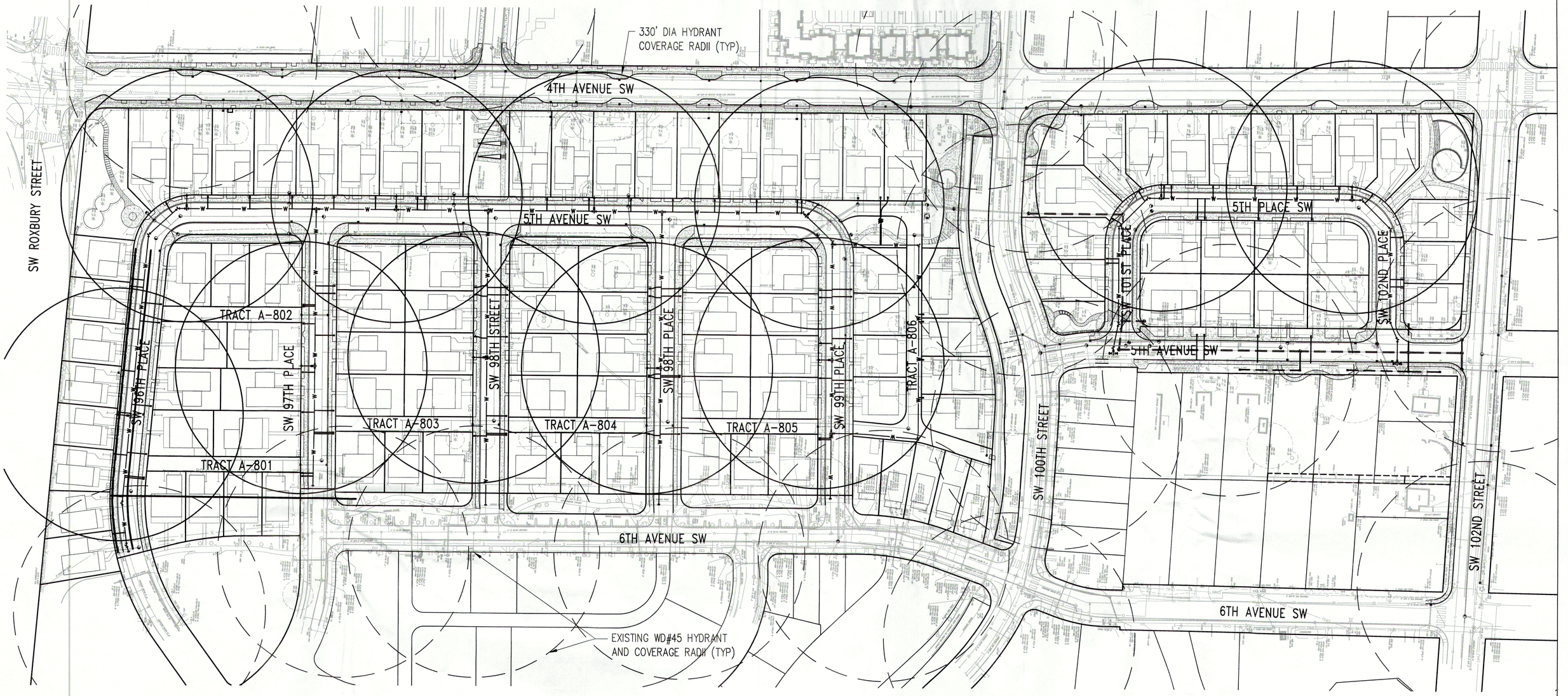
KING COUNTY HOUSING AUTHORITY
600 ANDOVER PARK WEST
SEATTLE, WA. 98188-3326
TELEPHONE: (206) 574-1196
CONTACT PERSON : JOHN ELIASON

Greenbridge

King County Housing Authority

Sep 18, 2017 - 1:17pm BhanB Z:\1600001-1600999\1600206 (Greenbridge)\CADD\Exhibits\GB WDA5 COVER KC FIRE PERMIT.dwg

SEC. 6, T.23 N., R.4E., W.M.



LEGEND

- PROPOSED WD#45 FIRE HYDRANT
- EXISTING WD#45 FIRE HYDRANT

N

0 30 60 120

1 inch = 60 feet

Sep 19, 2017 - 1:05pm Brian8 Z:\1600001-1600999\1600206 (Greenbridge)\CAD\Exhibits\GB WD#45 COVER KC FIRE EXHIBIT.dwg

NO.	BY	DATE	DESCRIPTION
			REVISIONS

kpff
1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com

MARK A VEUDER STATE OF WASHINGTON 24711 REGISTERED PROFESSIONAL ENGINEER 11/7/17

811 Call 811 two business days before you dig

Greenbridge

SCALE	DES.FLD.BK.	CST.FLD.BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

DATE APPROVED	
PRINCIPAL APPROVAL	
DESIGN	BJB
DRAWN	TAD
CHECKED	AGC
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

GREENBRIDGE DIVISION 8
FIRE HYDRANT COVERAGE EXHIBIT

BASE MAP
SHEET OF
DRAWING EX

SEC. 6, T.23 N., R.4E., W.M.

LEGEND AND ABBREVIATIONS

X / X-X	DETAIL REFERENCE NUMBER/SECTION SHEET
B/W	BACK OF WALK
CB	CATCH BASIN
CL	CENTERLINE
CTR	CENTER
DI	DUCTILE IRON
EL, ELEV.	ELEVATION
EX, EXIST	EXISTING
FL	FLANGE JOINT
FH	FIRE HYDRANT
G	GAS
GD	GREEN DRAINAGE
GV	GATE VALVE
EX, EXIST.	EXISTING
IE	INVERT ELEVATION
MJ	MECHANICAL JOINT
PL	PROPERTY LINE
PE	PLAIN END
P.O.C.	POINT OF CONNECTION
R/W, ROW	RIGHT OF WAY
RJ	RESTRAINED JOINT
RS	RESILIANT SEATED
SCL	SEATTLE CITY LIGHT
SD	STORM DRAINAGE
SL	SLEEVE
SS	SANITARY SEWER
STD(S)	STANDARD(S)
SVC	SERVICE
TB	THRUST BLOCK
WL	WATER LINE
WTR	WATER
W/	WITH
	SURVEY MONUMENT
	FIRE HYDRANT
	HORIZONTAL BEND W/ BLOCKING
	GATE VALVE
	TEE W/ BLOCKING
	WATER METER
	PROPOSED WATER SYSTEM
	SLEEVE
E—w—S	EXISTING WD#45 WATER MAIN
8" SS	SANITARY SEWER LINE
12" SD	STORM DRAIN LINE
12" GD	GREEN DRAIN LINE

GENERAL NOTES

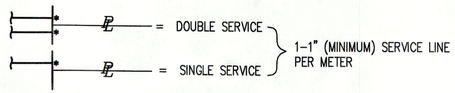
1. A COPY OF THE APPROVED PLANS, AND KING COUNTY WATER DISTRICT #45 (KCWD #45) SPECIFICATIONS SHALL BE ON SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
2. THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR WORK WITHIN THE PUBLIC RIGHT OF WAY.
3. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL SCHEDULE AND ATTEND A PRE-CONSTRUCTION CONFERENCE WITH THE KING COUNTY WATER DISTRICT #45. THE CONTRACTOR SHALL NOTIFY THE OWNER'S PROFESSIONAL ENGINEERING CONSULTANT OF THE PRE-CONSTRUCTION MEETING TIME AND LOCATION.
4. VERTICAL DATUM: NAVD 88

   BENCH MARK "B"
   SOUTHERLY TOP FLANGE BOLT BETWEEN THE LETTERS E & L IN THE WORD MUELLER, ON FIRE HYDRANT AT S.W. CORNER OF 8TH AVE S.W. & S.W. 102ND ST.
   ELEVATION = 407.61'

   BENCH MARK "C"
   CHISELED SQUARE AT INTERSECTION OF BACK OF CONCRETE WALKS AND BACK OF CURBS AT N.E. CORNER OF 4TH AVE. S.W. & S.W. 102ND ST.
   ELEVATION = 423.37'
5. THE CONTRACTOR SHALL NOTIFY KING COUNTY FIRE DEPARTMENT DISPATCHER (386-1495) TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL WATER SERVICE INTERRUPTIONS, HYDRANT SHUTOFFS, AND STREET CLOSURES OR OTHER ACCESS BLOCKAGE. THE CONTRACTOR SHALL ALSO NOTIFY THE DISPATCHER OF ALL NEW, RELOCATED, OR ELIMINATED HYDRANTS RESULTING FROM THIS WORK.
6. ALL LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN.
7. THE CONTRACTOR SHALL LOCATE AND PROTECT ALL CASTINGS AND UTILITIES DURING CONSTRUCTION AND SHALL CONTACT THE UNDERGROUND UTILITIES LOCATOR SERVICE (1-800-424-5555) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
8. THE CONTRACTOR SHALL ADJUST ALL EXISTING MANHOLE RIMS, DRAINAGE STRUCTURE LIDS, VALVE BOXES, AND UTILITY ACCESS STRUCTURES TO FINISH GRADE WITHIN AREAS AFFECTED BY THE PROPOSED IMPROVEMENTS.
9. ALL WORK PERFORMED BY SEATTLE CITY LIGHT, SPU/WATER DEPARTMENT, AND OTHER PUBLIC/ PRIVATE UTILITIES TO REMOVE OR RELOCATE EXISTING UTILITIES AT THE DEVELOPER'S EXPENSE, SHALL BE COORDINATED BY THE CONTRACTOR.
10. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL POSITION OF ALL PROPOSED UTILITY POINTS OF CONNECTION, AND SHALL POTHOLE ALL CROSSINGS WITH EXISTING UTILITIES PRIOR TO THE START OF DEMOLITION AND INSTALLATION OF PROPOSED UTILITIES.

WATER DISTRICT #45 GENERAL WATER NOTES

1. PROJECT TO BE CONSTRUCTED IN ACCORDANCE WITH KING COUNTY WATER DISTRICT NO. 45 STANDARD SPECIFICATIONS AND DETAILS.
2. PIPE DEFLECTION AT JOINTS NOT TO EXCEED MANUFACTURER'S RECOMMENDATIONS.
3. MAINTAIN A MINIMUM OF 10 FEET HORIZONTAL SEPARATION BETWEEN WATER MAIN AND SANITARY SEWER AT ALL LOCATIONS, EXCEPT AS ALLOWED PER SECTION C1-9.1 OF THE CRITERIA FOR SEWAGE WORKS DESIGN AS PUBLISHED BY THE DEPARTMENT OF ECOLOGY IN DECEMBER 1998.
4. NOTIFY THE DISTRICT OFFICE IN WRITING A MINIMUM OF 72 HOURS PRIOR TO PROCEEDING WITH CONSTRUCTION.
5. WATER WORKS TESTING
   SHUT DOWN VALVE(S) TO EXISTING WATER SYSTEM. PUMP UP MAIN TO 150 P.S.I. OVER NORMAL WORKING PRESSURE AS DETERMINED BY ACCURATE PRESSURE GAUGE ON PUMP. MINIMUM PRESSURE SHALL BE 250 P.S.I. LET SIT 30 MINUTES. THERE SHALL NOT BE AN APPRECIABLE OR ABRUPT LOSS IN PRESSURE IN THE 30 MINUTES. REDUCE PRESSURE TO 50 P.S.I. PUMP UP MAIN TO "REQUIRED" PRESSURE AND TEST FOR TEN (10) MORE MINUTES. (CONTRACTOR TESTING GAUGE MAY BE COMPARED TO DISTRICT PRESSURE GAUGE FOR ACCURACY)

   PRIOR TO CALLING OUT THE DISTRICT TO WITNESS THE PRESSURE TEST, THE CONTRACTOR SHALL HAVE ALL EQUIPMENT SET UP AND COMPLETELY READY FOR OPERATION AND SHALL HAVE SUCCESSFULLY PERFORMED THE TEST TO ASSURE HIMSELF/HERSELF THAT THE PIPE IS IN SATISFACTORY CONDITION.
6. THE CONTRACTOR SHALL NOT OPERATE ANY GATE VALVES OR MAKE ANY CONNECTIONS TO THE EXISTING WATER SYSTEM WITHOUT PRIOR WRITTEN APPROVAL FROM THE DISTRICT INSPECTOR OR SUPERINTENDENT.
7. WATER SERVICE LOCATIONS ARE SHOWN AT APPROXIMATE LOCATION ONLY. ALL FINAL LOCATIONS SHALL BE FIELD STAKED BY THE DEVELOPER'S ENGINEER AND THEN COORDINATED AND FIELD VERIFIED WITH THE DISTRICT INSPECTOR OR SUPERINTENDENT PRIOR TO INSTALLATION. ALL TAPS TO THE WATERMAIN SHALL BE MADE AT THE SAME HORIZONTAL STATION ALONG THE PIPE THAT THE METER IS PLACED UNLESS OTHER ARRANGEMENTS ARE MADE WITH THE DISTRICT.
8. 

   DOUBLE SERVICES SHALL NOT BE LOCATED WHERE THERE WILL BE CONFLICTS WITH OTHER UTILITY BOXES. ANY CHANGES TO THE DESIGN LOCATIONS SHALL BE APPROVED BY DISTRICT MANAGER OR SUPERINTENDENT PRIOR TO INSTALLATION.
9. AFTER CLEARING, AND A MINIMUM OF 4 WEEKS PRIOR TO WATERLINE INSTALLATION, THE DEVELOPER OR CONTRACTOR SHALL COORDINATE WITH THE DISTRICT SO THAT SOILS TESTING CAN BE COMPLETED BY THE DISTRICT. THE DISTRICT SHALL THEN DETERMINE WHERE POLYETHYLENE LINING SHALL BE INSTALLED ON THE WATERLINE.
10. THE CONTRACTOR SHALL PIG THE NEW WATER MAIN PRIOR TO FLUSHING AND TESTING THE NEW WATER MAIN. OWNER SHALL FURNISH PIGS. CONTRACTOR SHALL COORDINATE WITH OWNER AND RESIDENT PROJECT REPRESENTATIVE FOR PIGGING LOCATIONS. IF PIG GETS STUCK INSIDE WATER MAIN, CONTRACTOR SHALL LOCATE AND REMOVE PIG AND ANY OBSTRUCTIONS. THE PIGGING PROCESS SHALL THEN BE REPEATED UNTIL THE ENTIRE LINE HAS BEEN SUCCESSFULLY PIGGED. THE CONTRACTOR SHALL THEN SUCCESSFULLY FLUSH AND TEST THE NEW WATER MAIN FOR PRESSURE AND PURITY. THE PROCESS SHALL BE REPEATED UNTIL THE NEW WATER MAIN HAS BEEN SUCCESSFULLY PIGGED, FLUSHED AND TESTED. THE OWNER SHALL BE RESPONSIBLE FOR COLLECTING PURITY SAMPLES AND OBTAINING BACTERIOLOGICAL TEST.

DRAWING INDEX

SHEET	DRAWING TITLE
W-1	NOTES AND LEGEND
W-1A	OVERALL PLAN
W-2	SW 96TH PLACE PLAN AND PROFILE
W-3	5TH AVENUE SW PLAN AND PROFILE
W-4	5TH AVENUE SW PLAN AND PROFILE
W-5	SW 99TH PLACE PLAN AND PROFILE
W-6	SW 97TH PLACE PLAN AND PROFILE
W-7	SW 98TH STREET PLAN AND PROFILE
W-8	SW 98TH PLACE PLAN AND PROFILE
W-9	TRACT A-806 PLAN AND PROFILE
W-10	SW 101ST PLACE AND 5TH PLACE SW PLAN AND PROFILE
W-11	5TH PLACE SW AND SW 102ND PLACE PLAN AND PROFILE
W-12	5TH AVENUE SW PLAN AND PROFILE
W-13	STANDARD DETAILS
W-14	STANDARD DETAILS

Water District 45 KING COUNTY

APPROVED CONSTRUCTION DRAWINGS: _____ DATE: _____

(W.D. #45, PHASE XX)

DEA #__-__

NO.	BY	DATE	DESCRIPTION
1		04/05/17	ORIGINAL SUBMITTAL

REVISIONS

kpff
1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com

ALBERTO G. CISNEROS — STATE OF WASHINGTON — 32120 REGISTERED PROFESSIONAL ENGINEER

KING COUNTY WATER DISTRICT NO. 45

WATER MAIN EXTENSION

Greenbridge

SCALE	DES. FLD. BK.	CST. FLD. BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	TAD
CHECKED	AGC
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY

GREENBRIDGE DIVISION 8

NOTES AND LEGEND

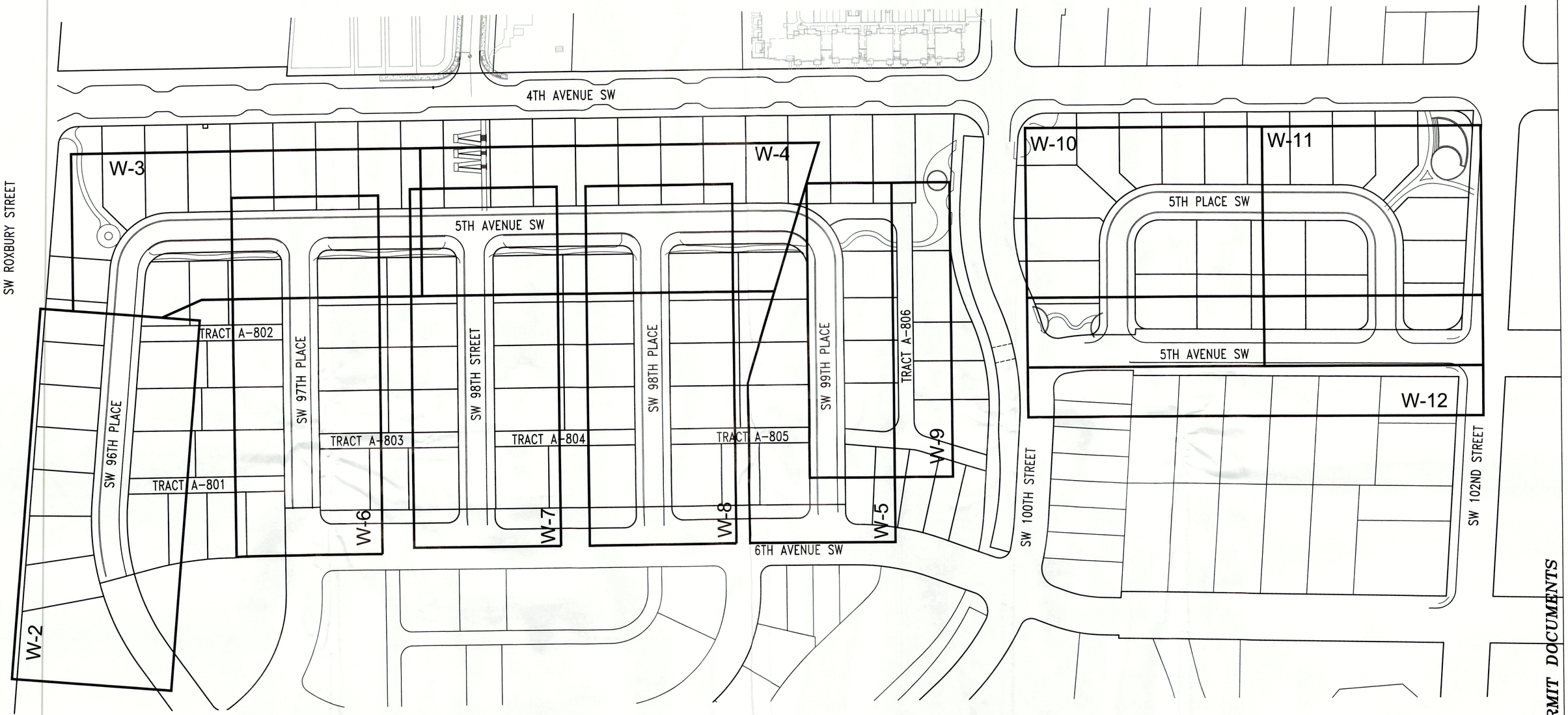
BASE MAP

SHEET 2 OF 16

DRAWING W-1

Apr 05, 2017 - 1:57pm BrianB Z:\1600001-1600999\1600206 (Greenbridge)\CAD\Design\CAD\WD45\01-GB WD45 1 NOTES.dwg

SEC. 6, T.23 N., R.4E., W.M.



0 30 60 120
1 inch = 60 feet

811 Call 811 two business days before you dig

Water District 45 KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: _____ DATE: _____

(W.D. #45, PHASE XX)

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APRIL 2017 PERMIT DOCUMENTS

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KING COUNTY
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WATER MAIN EXTENSION

Greenbridge

SCALE	DES. FLD. BK.	CST. FLD. BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

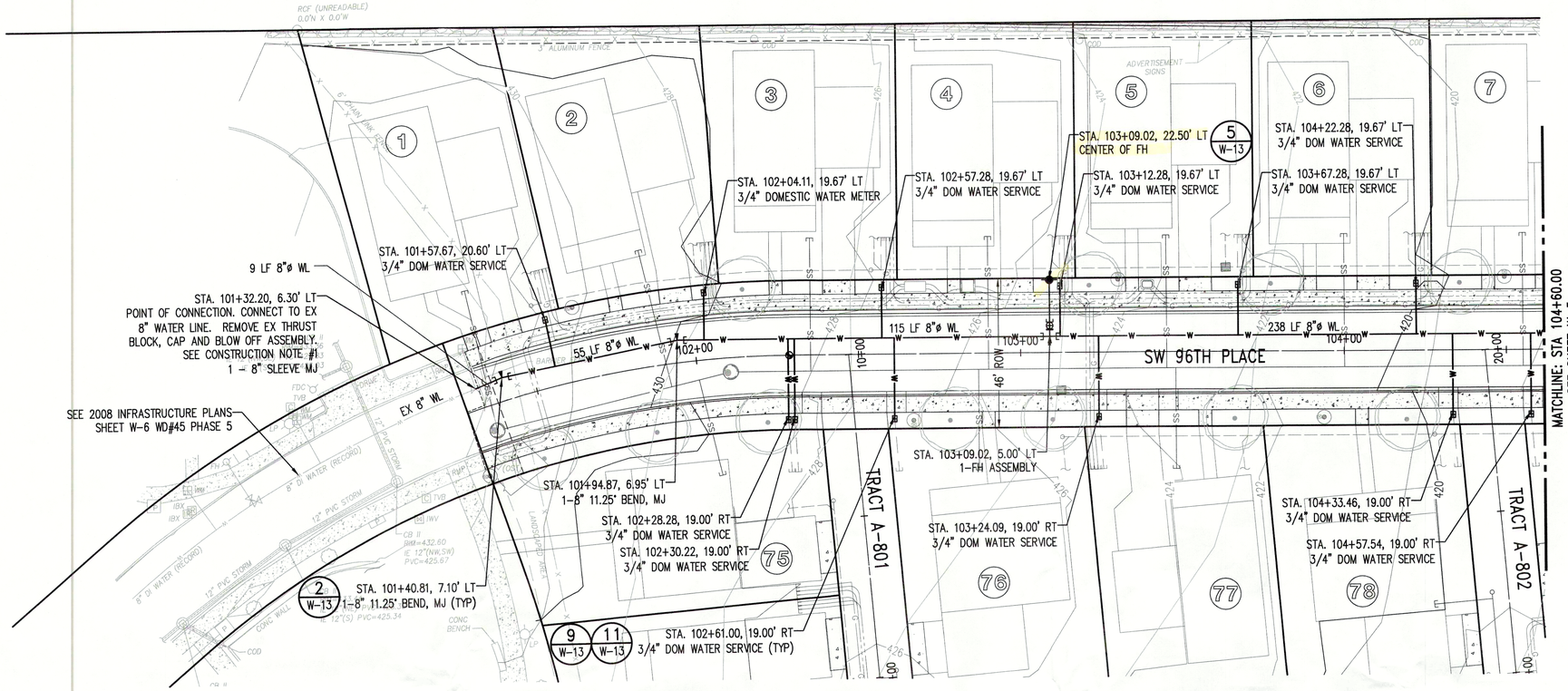
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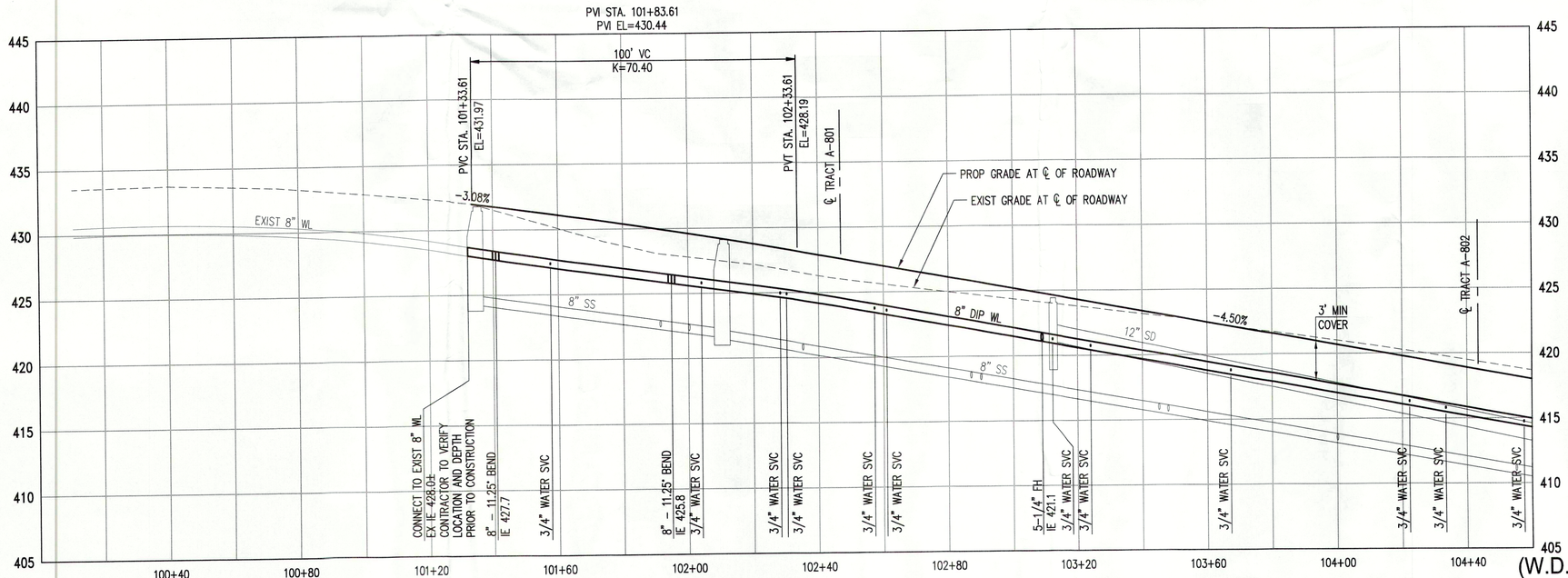
KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
OVERALL WATER KEY PLAN

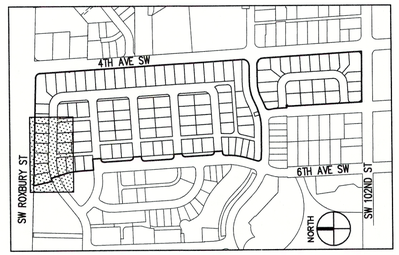
BASE MAP
SHEET 3 OF 16
DRAWING
W-1A

Apr 05, 2017 - 2:07pm BrianB Z:\1600001-1600999\1600206 (Greenbridge)\CADD\Design\UD\WD45\02-08 WD45 1a OVERALL WD45.dwg

SEC. 6, T.23 N., R.4E., W.M.







KEY MAP
NTS

CONSTRUCTION NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE AND MATERIAL OF EXISTING WATERMAIN IN THE PRESENCE OF WD#45 INSPECTOR. PREPARE A SKETCH REFLECTING SEQUENCE FOR SHUTTING DOWN AND CONNECTING TO EXIST. WATERMAINS FOR APPROVAL BY WD#45 INSPECTOR.
2. NO CONNECTION TO THE EXISTING SYSTEM SHALL BE MADE UNTIL AFTER PRESSURE AND PURITY TEST ACCEPTANCE AND AUTHORIZATION BY WD#45.
3. EXISTING FEATURES ARE NOT SHOWN FOR CLARITY. CONTRACTOR SHALL REFER TO THE SURVEY PLANS AND FIELD OBSERVATION FOR UTILITIES AND EXIST. STRUCTURES THAT MAY BE ENCOUNTERED DURING TRENCHING.

N

0 10 20 40
1 inch = 20 ft. HORZ
0 2.5 5 10
1 inch = 5 ft. VERT

811 Call 811 two business days before you dig

Water District 45 KING COUNTY

APPROVED CONSTRUCTION DRAWINGS: _____ DATE: _____

DEA #__-__

(W.D. #45, PHASE XX)

APRIL 2017 PERMIT DOCUMENTS

NO.	BY	DATE	REVISIONS
1		04/05/17	ORIGINAL SUBMITTAL

kpff
1601 5th Avenue, Suite 1600
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ALBERTO G. CISNEROS STATE OF WASHINGTON 32120 REGISTERED PROFESSIONAL ENGINEER

KING COUNTY WATER DISTRICT NO. 45

WATER MAIN EXTENSION

Greenbridge

SCALE HORIZ: VERT:	DES.FLD.BK. NO. PG.	CST.FLD.BK. NO. PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	TAD
CHECKED	AGC
JOB NO.	1600206

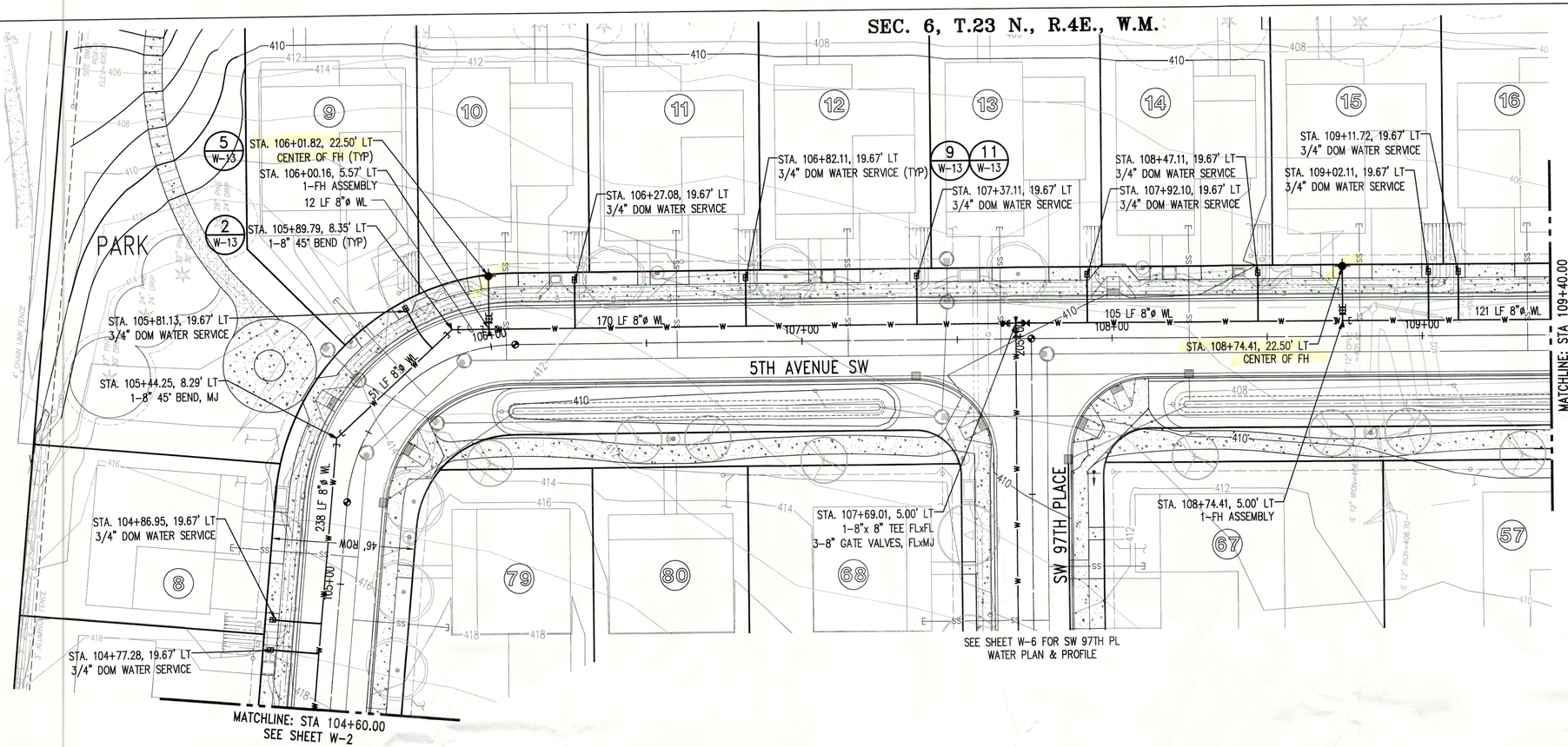
KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

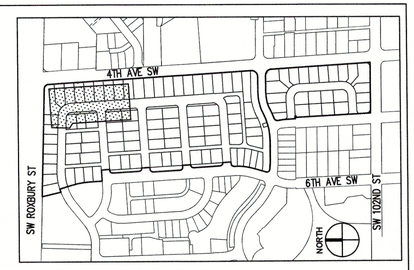
GREENBRIDGE DIVISION 8

SW 96TH PLACE PLAN AND PROFILE

BASE MAP
SHEET 4 OF 16
DRAWING W-2

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Apr 05, 2017 - 1:27pm Brond

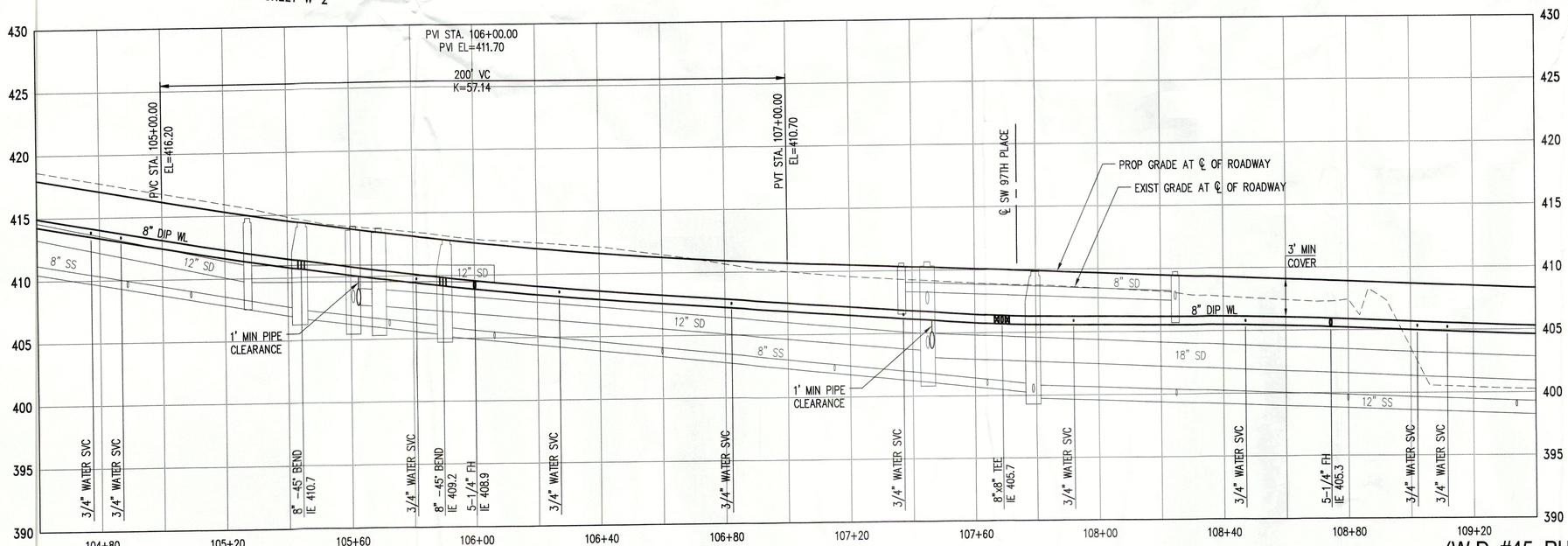


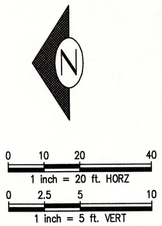


KEY MAP
NTS

CONSTRUCTION NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE AND MATERIAL OF EXISTING WATERMAIN IN THE PRESENCE OF WD#45 INSPECTOR. PREPARE A SKETCH REFLECTING SEQUENCE FOR SHUTTING DOWN AND CONNECTING TO EXIST. WATERMAINS FOR APPROVAL BY WD#45 INSPECTOR.
2. NO CONNECTION TO THE EXISTING SYSTEM SHALL BE MADE UNTIL AFTER PRESSURE AND PURITY TEST ACCEPTANCE AND AUTHORIZATION BY WD#45.
3. EXISTING FEATURES ARE NOT SHOWN FOR CLARITY. CONTRACTOR SHALL REFER TO THE SURVEY PLANS AND FIELD OBSERVATION FOR UTILITIES AND EXIST. STRUCTURES THAT MAY BE ENCOUNTERED DURING TRENCHING.





811 Call 811 two business days before you dig

45 Water District KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: _____ DATE: _____

DEA #__-__

(W.D. #45, PHASE XX)

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NO.	BY	DATE	DESCRIPTION
1		04/05/17	ORIGINAL SUBMITTAL

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206.622.5822
www.kpff.com

ALBERTO G. CISNEROS STATE OF WASHINGTON 32120 REGISTERED PROFESSIONAL ENGINEER

KING COUNTY WATER DISTRICT NO. 45

WATER MAIN EXTENSION

Greenbridge

SCALE HORIZ: VERT:	DES. FLD. BK. NO. PG.	CST. FLD. BK. NO. PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	TAD
CHECKED	AGC
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

GREENBRIDGE DIVISION 8

5TH AVENUE SW PLAN AND PROFILE

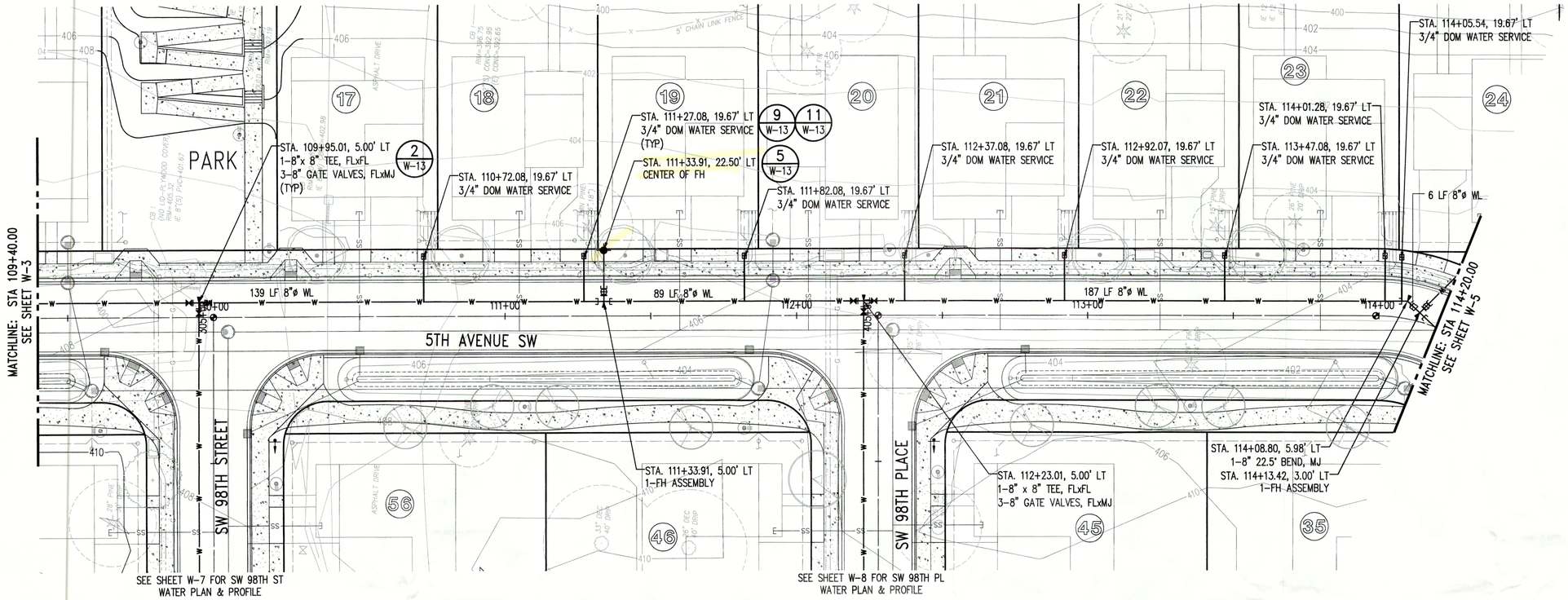
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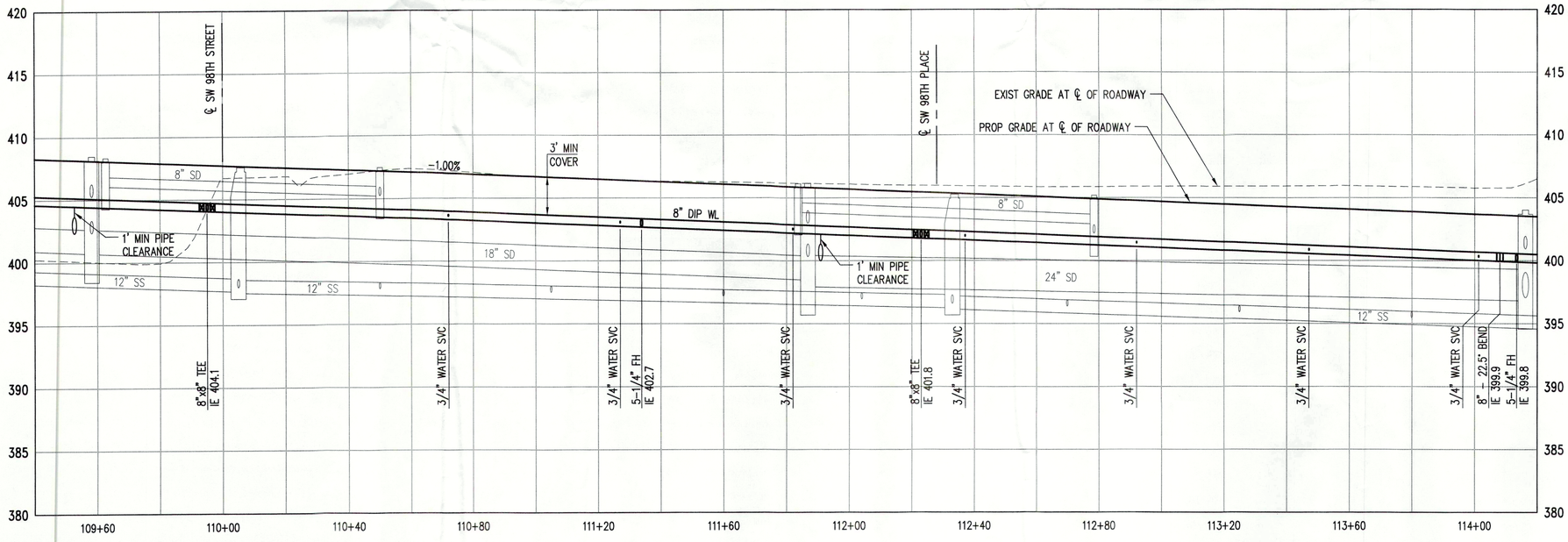
SHEET 5 OF 16

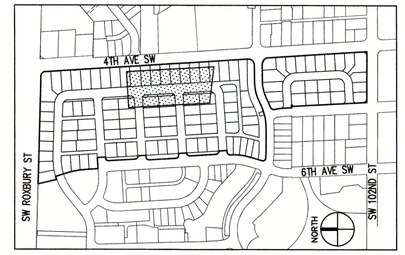
DRAWING W-3

Z:\1600001 - 1600999\1600206 (Greenbridge)\CAD\Design\100\WD#45 2 5TH AVE SW.dwg
Apr 05, 2017 - 1:42pm BrianB

SEC. 6, T.23 N., R.4E., W.M.







KEY MAP
NTS

CONSTRUCTION NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE AND MATERIAL OF EXISTING WATERMAIN IN THE PRESENCE OF WD#45 INSPECTOR. PREPARE A SKETCH REFLECTING SEQUENCE FOR SHUTTING DOWN AND CONNECTING TO EXIST. WATERMAINS FOR APPROVAL BY WD#45 INSPECTOR.
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3. EXISTING FEATURES ARE NOT SHOWN FOR CLARITY. CONTRACTOR SHALL REFER TO THE SURVEY PLANS AND FIELD OBSERVATION FOR UTILITIES AND EXIST. STRUCTURES THAT MAY BE ENCOUNTERED DURING TRENCHING.

N

0 10 20 40
1 inch = 20 ft. HORZ
0 2.5 5 10
1 inch = 5 ft. VERT

811 Call 811 two business days before you dig

45 Water District KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: _____ DATE: _____

(W.D. #45, PHASE XX)

DEA #__-__

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ALBERTO G. CISNEROS — STATE OF WASHINGTON — 52120 — REGISTERED PROFESSIONAL ENGINEER

KING COUNTY WATER DISTRICT NO. 45

WATER MAIN EXTENSION

Greenbridge

SCALE	DES. FLD. BK.	CST. FLD. BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	TAD
CHECKED	AGC
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

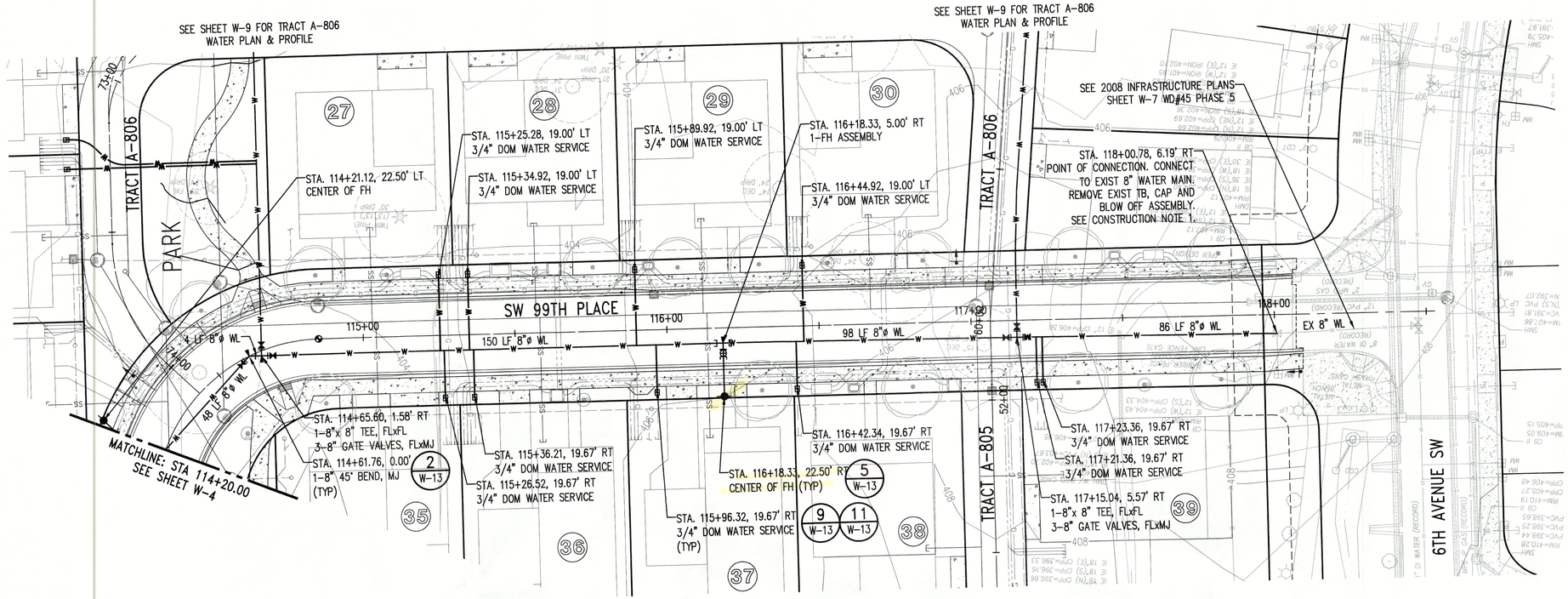
GREENBRIDGE DIVISION 8

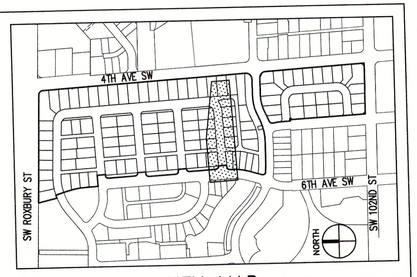
5TH AVENUE SW PLAN AND PROFILE

BASE MAP
SHEET 6 OF 16
DRAWING
W-4

Apr 05, 2017 - 1:47pm BrianB Z:\1600001-1600999\1600206 (Greenbridge)\CADD\Design\DD\WD45\03-08 WD45 2 5TH AVE SW.dwg

SEC. 6, T.23 N., R.4E., W.M.

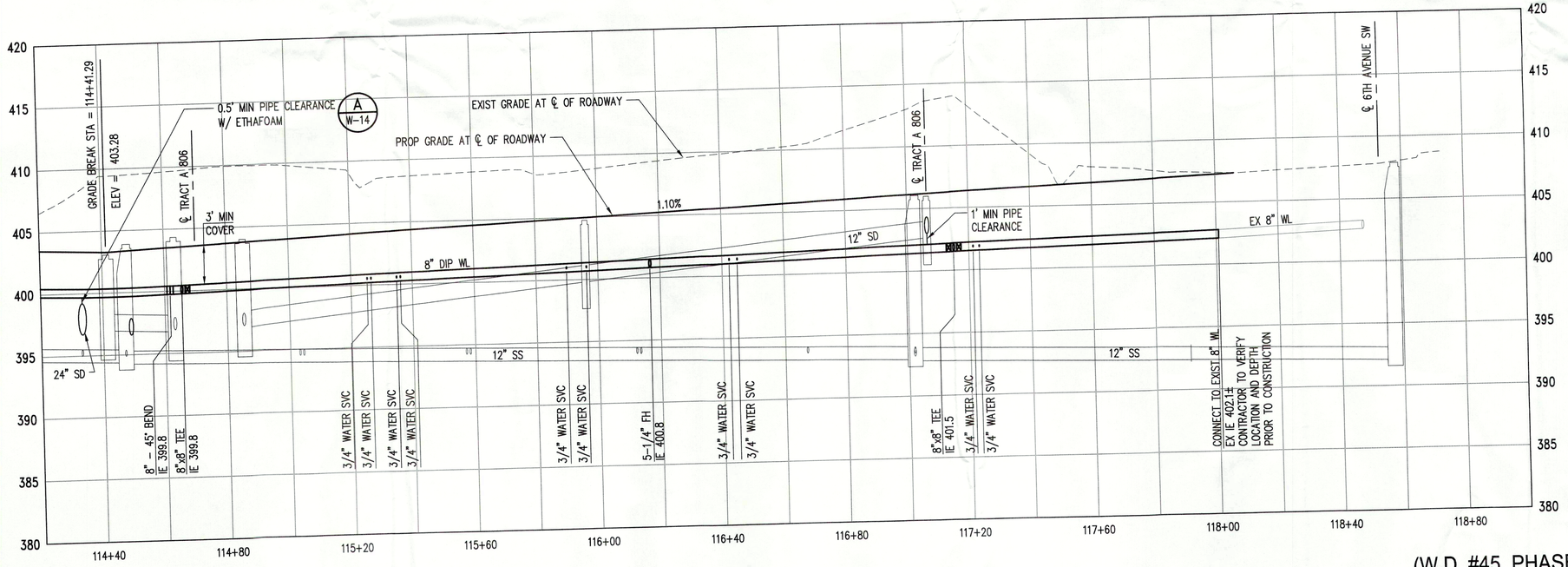




KEY MAP
NTS

CONSTRUCTION NOTES:

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(W.D. #45, PHASE XX)

N

0 10 20 40
1 inch = 20 ft. HORZ
0 2.5 5 10
1 inch = 5 ft. VERT

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Water District 45 KING COUNTY

APPROVED CONSTRUCTION DRAWINGS: _____ DATE: _____

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ALBERTO G. CISNEROS STATE OF WASHINGTON 32120 REGISTERED PROFESSIONAL ENGINEER

KING COUNTY WATER DISTRICT NO. 45

WATER MAIN EXTENSION

Greenbridge

SCALE HORIZ:	DES. FLD. BK. NO. PG.
VERT:	CST. FLD. BK. NO. PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	TAD
CHECKED	AGC
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

GREENBRIDGE DIVISION 8

SW 99TH PLACE PLAN AND PROFILE

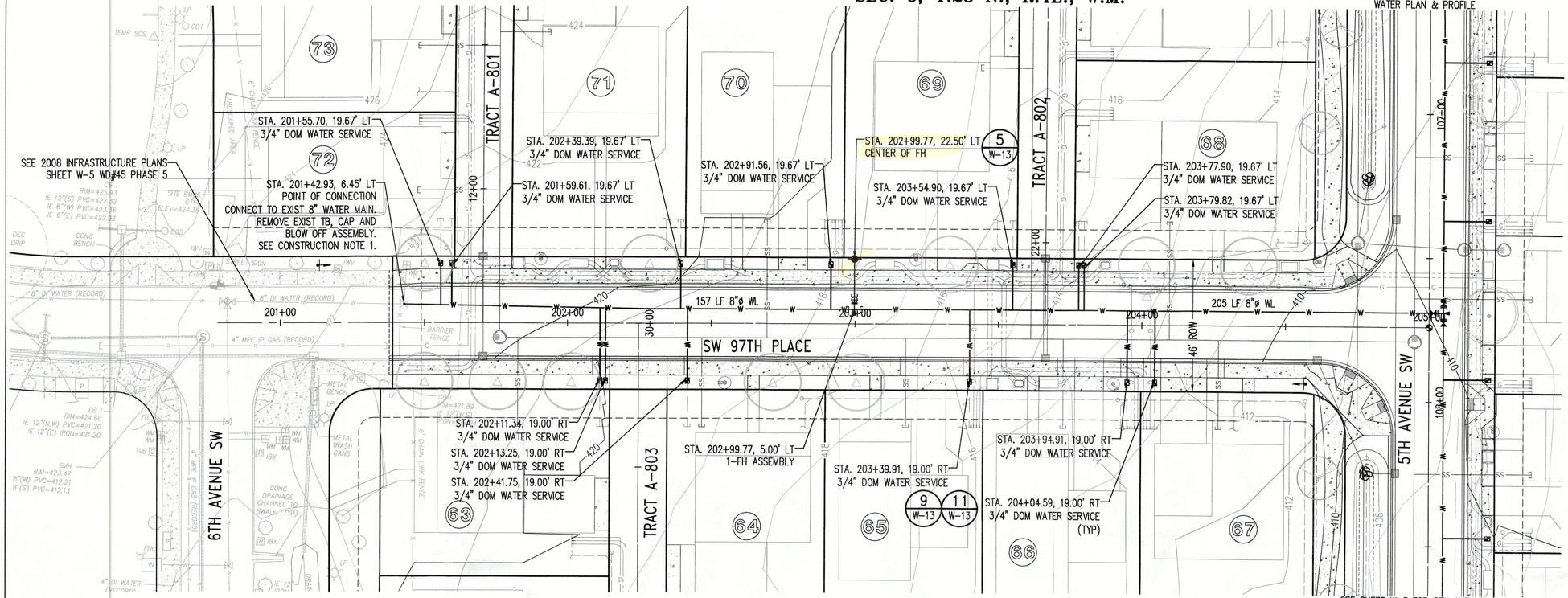
BASE MAP

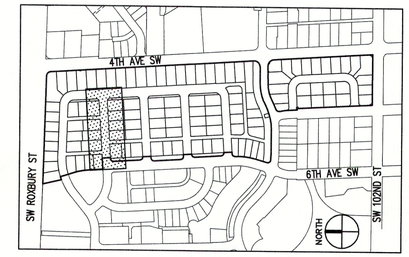
SHEET 7 OF 16

DRAWING W-5

Apr 05, 2017 - 1:49pm BrentB Z:\1600001-1609999\1600206 (Greenbridge)\CAD\Design\20\WD45\03-GB WD45 2 5TH AVE SW.dwg

SEC. 6, T.23 N., R.4E., W.M.

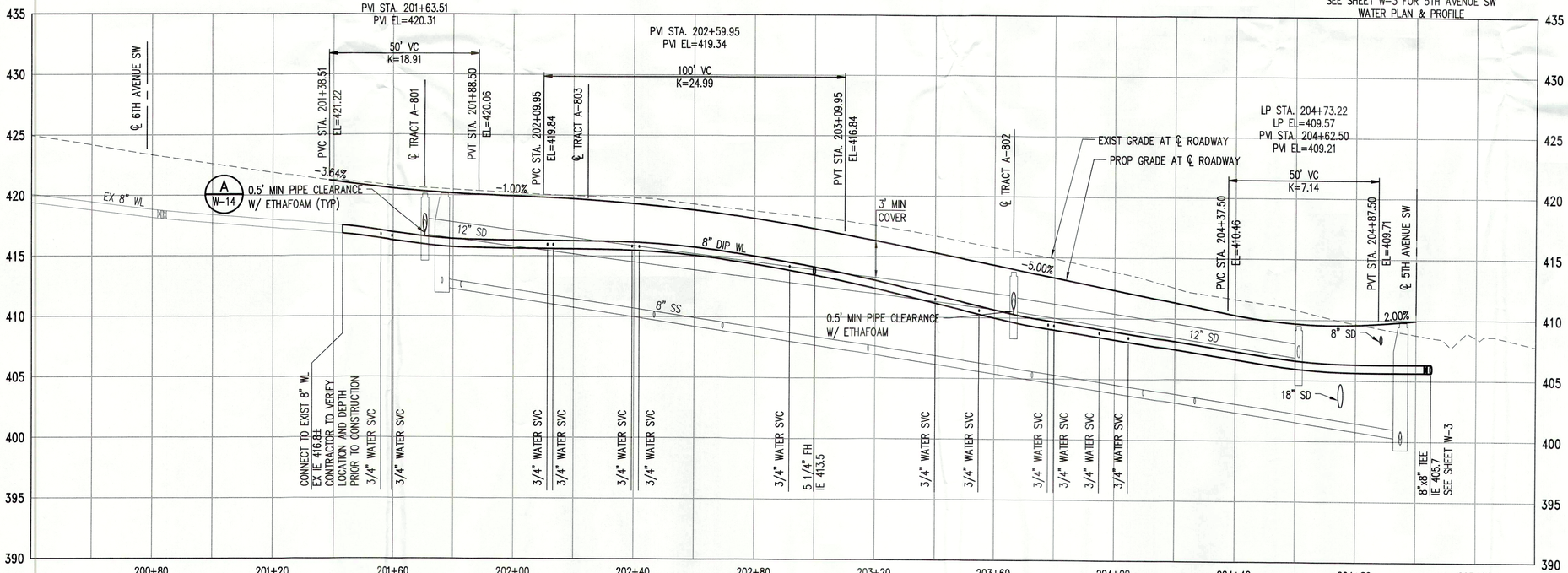


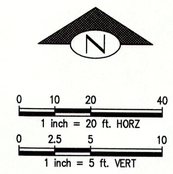


KEY MAP
NTS

CONSTRUCTION NOTES:

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Water District 45
KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: _____ DATE: _____

(W.D. #45, PHASE XX)

DEA #__-__

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ALBERTO G. CISNEROS STATE OF WASHINGTON 32120 REGISTERED PROFESSIONAL ENGINEER

KING COUNTY WATER DISTRICT NO. 45

WATER MAIN EXTENSION

Greenbridge

SCALE	DES. FLD. BK.	CST. FLD. BK.	
HORIZ:	NO.	NO.	
VERT:	PG.	PG.	

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	TAD
CHECKED	AGC
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

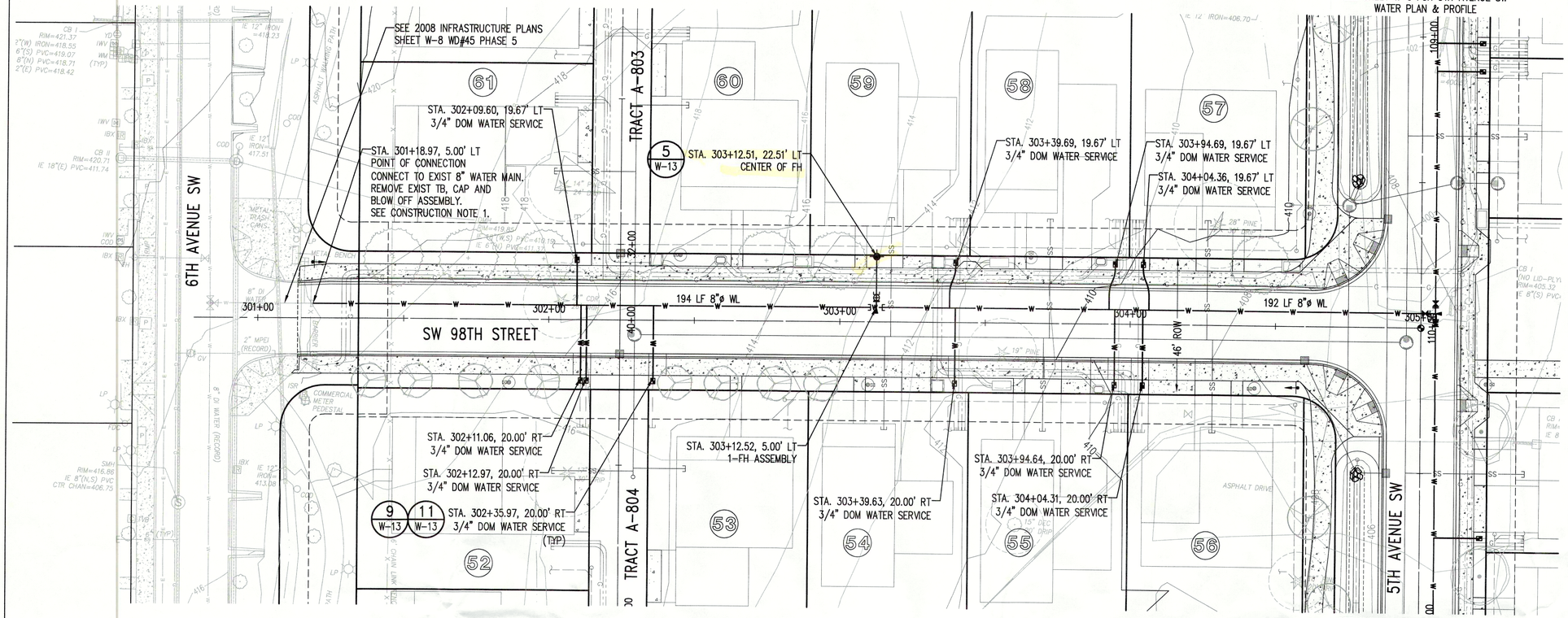
GREENBRIDGE DIVISION 8

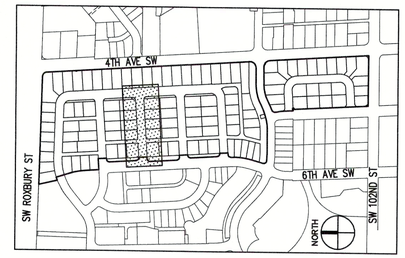
SW 97TH PLACE PLAN AND PROFILE

BASE MAP
SHEET 8 OF 16
DRAWING
W-6

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Apr 05, 2017 - 2:07pm BrianB

SEC. 6, T.23 N., R.4E., W.M.

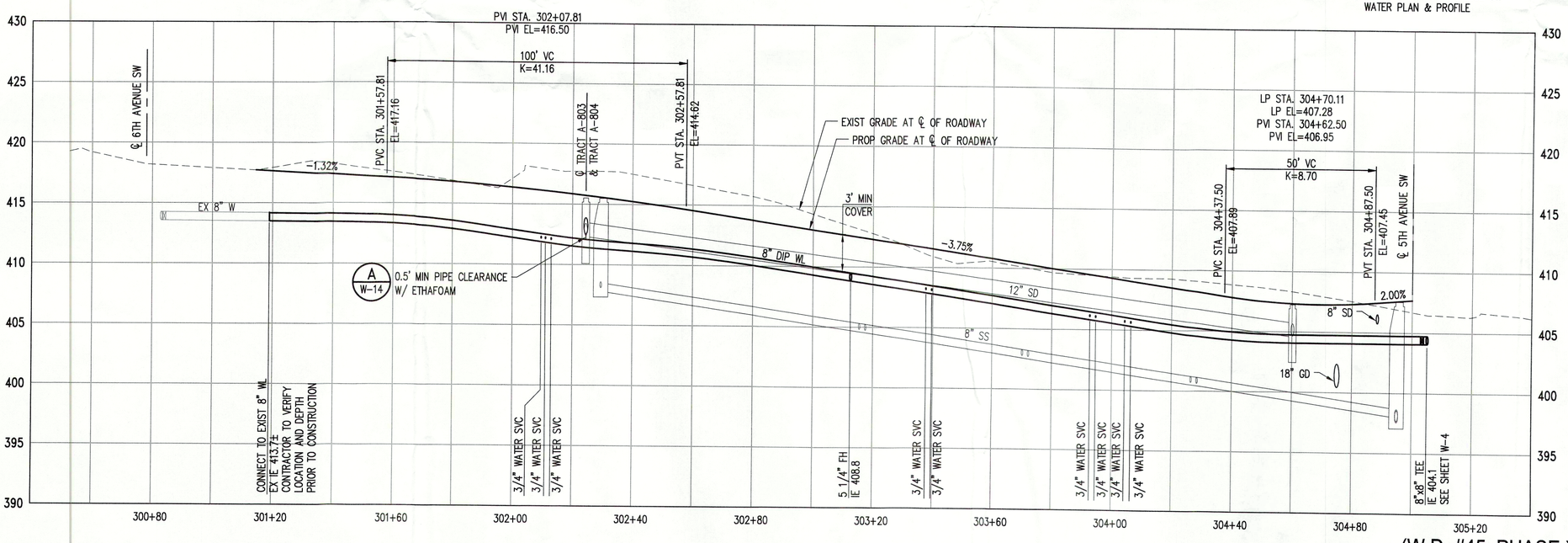




KEY MAP
NTS

CONSTRUCTION NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE AND MATERIAL OF EXISTING WATERMAIN IN THE PRESENCE OF WD#45 INSPECTOR. PREPARE A SKETCH REFLECTING SEQUENCE FOR SHUTTING DOWN AND CONNECTING TO EXIST. WATERMAINS FOR APPROVAL BY WD#45 INSPECTOR.
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(W.D. #45, PHASE XX)

DEA #__-__

APRIL 2017 PERMIT DOCUMENTS

0 10 20 40
1 inch = 20 ft. HORZ
0 2.5 5 10
1 inch = 5 ft. VERT

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Water District 45 KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: _____ DATE: _____

NO.	BY	DATE	DESCRIPTION
1		04/05/17	ORIGINAL SUBMITTAL

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ALBERTO G. CISNEROS STATE OF WASHINGTON 32120 REGISTERED PROFESSIONAL ENGINEER

KING COUNTY WATER DISTRICT NO. 45

WATER MAIN EXTENSION

Greenbridge

SCALE HORIZ: VERT:	DES.FLD.BK. NO. PG.	CST.FLD.BK. NO. PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	TAD
CHECKED	AGC
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

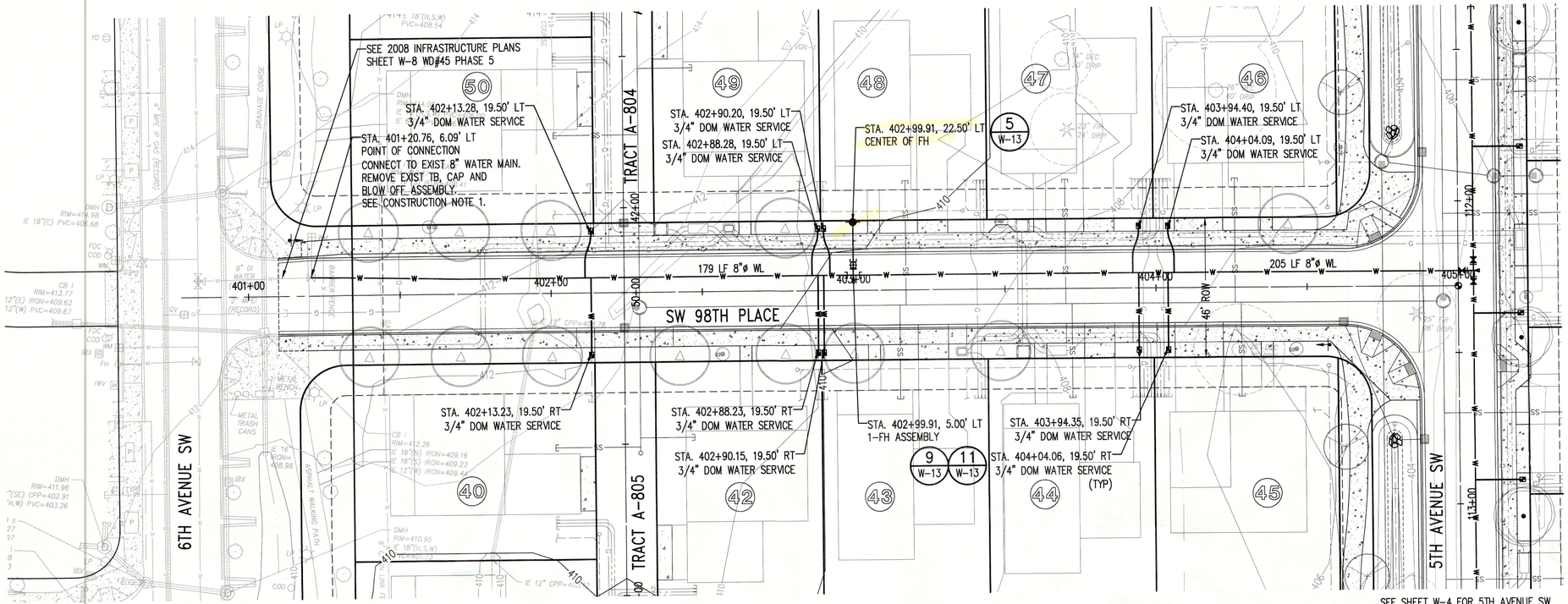
GREENBRIDGE DIVISION 8

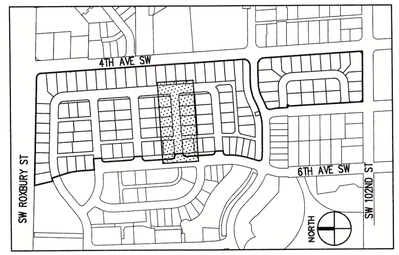
SW 98TH STREET PLAN AND PROFILE

BASE MAP
SHEET 9 OF 16
DRAWING
W-7

Apr 05, 2017 - 2:09pm BrianB
Z:\1600001-1600999\1600206 (Greenbridge)\CADD\Design\DD\WD45\05-08 WD45 7 SW 98TH ST.dwg

SEC. 6, T.23 N., R.4E., W.M.

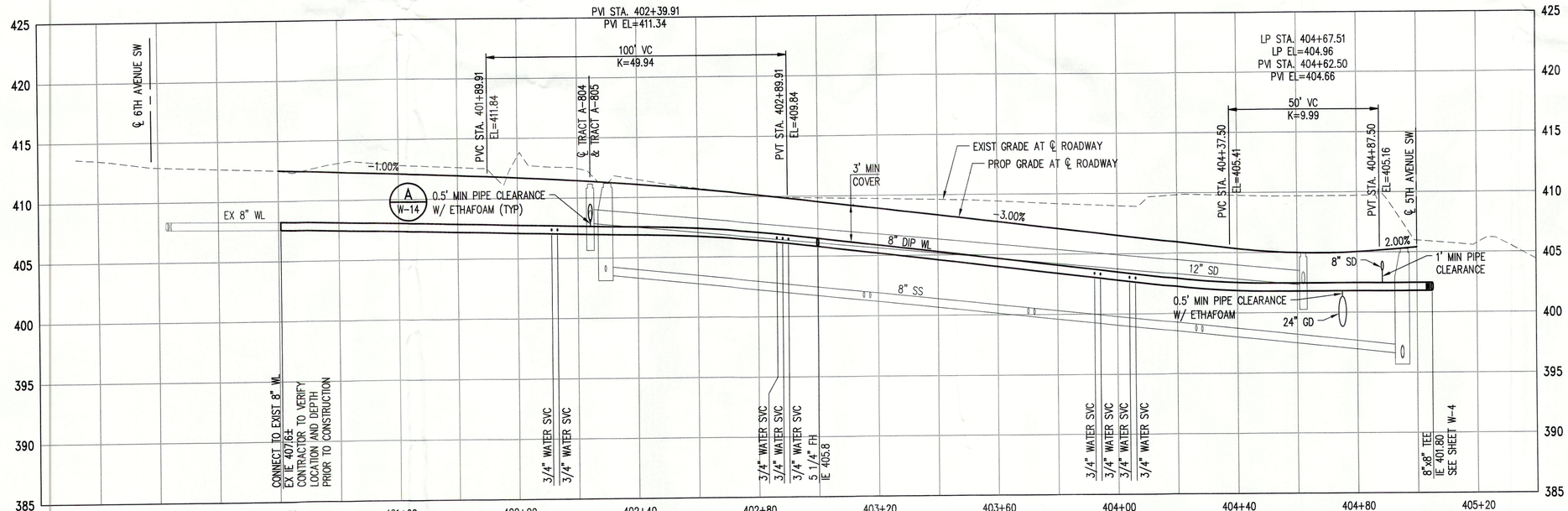


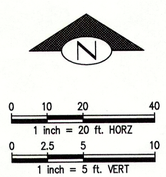


KEY MAP
NTS

CONSTRUCTION NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE AND MATERIAL OF EXISTING WATERMAIN IN THE PRESENCE OF WD#45 INSPECTOR. PREPARE A SKETCH REFLECTING SEQUENCE FOR SHUTTING DOWN AND CONNECTING TO EXIST. WATERMAINS FOR APPROVAL BY WD#45 INSPECTOR.
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Water District 45 KING COUNTY

APPROVED CONSTRUCTION DRAWINGS: _____ DATE: _____

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(W.D. #45, PHASE XX)

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ALBERT G. OSNEROS STATE OF WASHINGTON 22120 REGISTERED PROFESSIONAL ENGINEER

KING COUNTY WATER DISTRICT NO. 45

WATER MAIN EXTENSION

Greenbridge

SCALE HORIZ: VERT:	DES. FLD. BK. NO. PG.	CST. FLD. BK. NO. PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	TAD
CHECKED	AGC
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

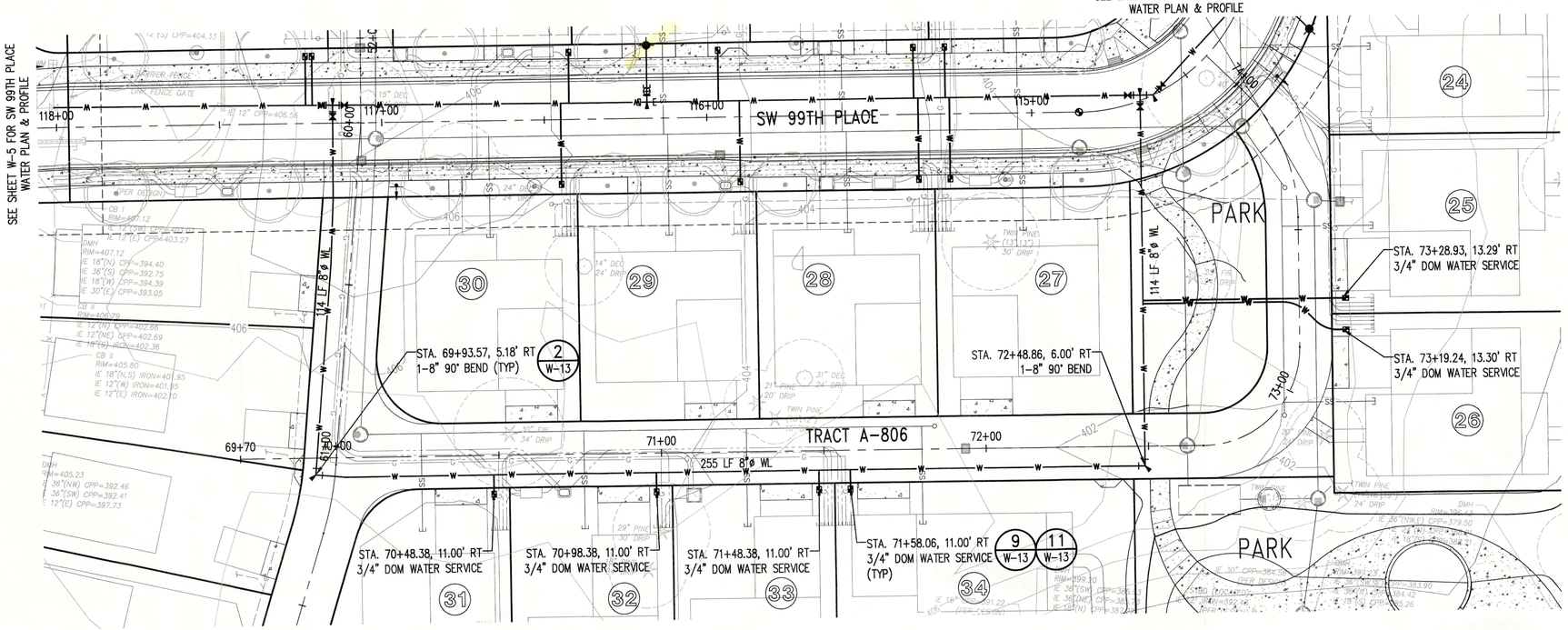
GREENBRIDGE DIVISION 8

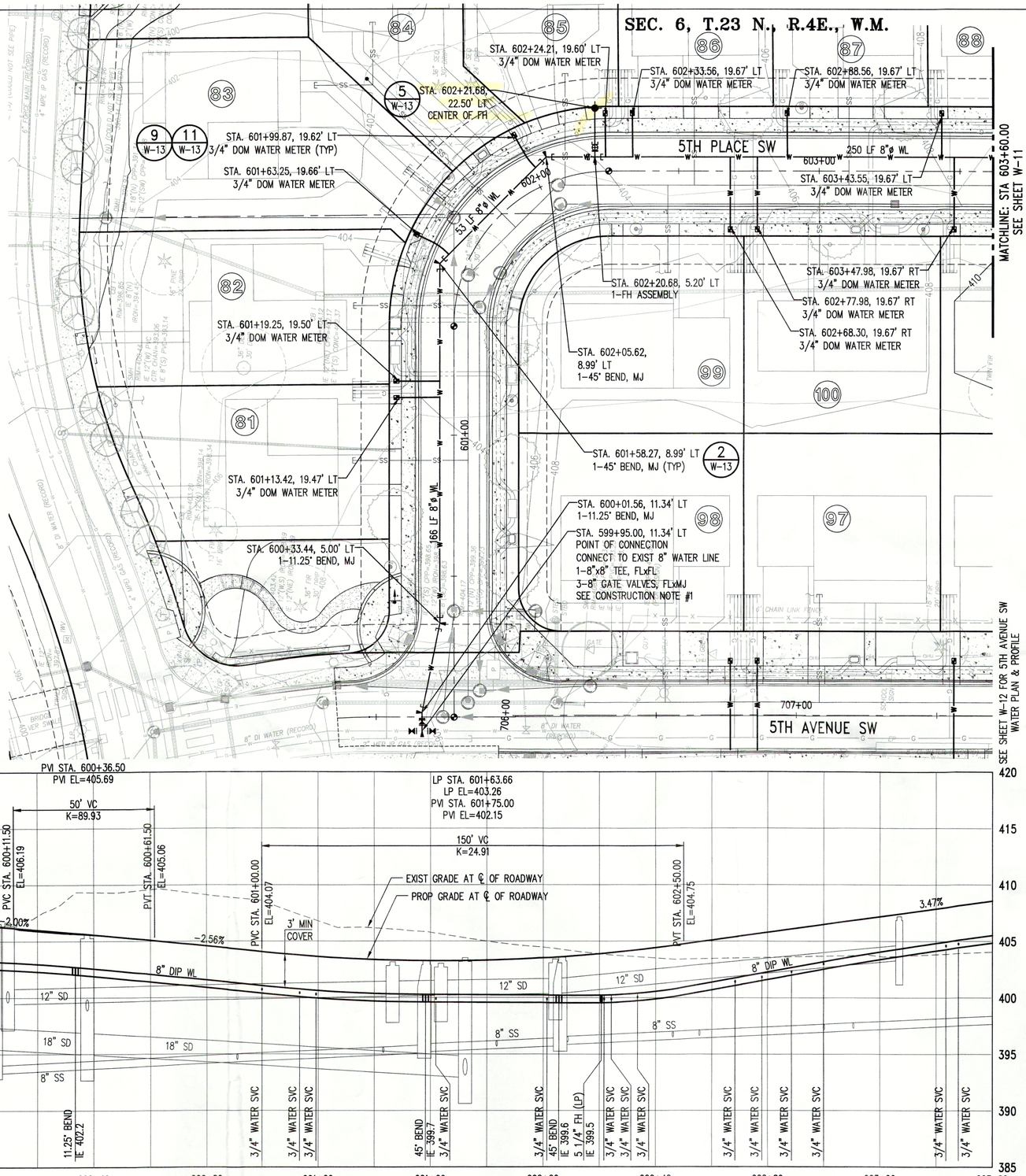
SW 98TH PLACE PLAN AND PROFILE

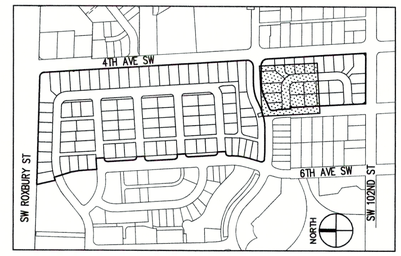
BASE MAP
SHEET 10 OF 16
DRAWING
W-8

Z:\1600001-1600999\1600206 (Greenbridge)\CAD\Design\D01\WD45\06-GB WD45 & SW 98TH PL.dwg
Apr 05, 2017 - 2:09pm BrianB

SEC. 6, T.23 N., R.4E., W.M.


SEE SHEET W-5 FOR SW 99TH PLACE WATER PLAN & PROFILE
SEE SHEET W-4 FOR 5TH AVENUE SW WATER PLAN & PROFILE
SW 99TH PLACE
118+00
117+00
116+00
115+00
60'-00"
TRACT A-806
PARK
PARK
24
25
26
27
28
29
30
31
32
33
34
69+70
70+00
71+00
72+00
73+00
114 LF 8"ø WL
255 LF 8"ø WL
STA. 69+93.57, 5.18' RT
1-8" 90° BEND (TYP)
2
W-13
STA. 72+48.86, 6.00' RT
1-8" 90° BEND
STA. 73+28.93, 13.29' RT
3/4" DOM WATER SERVICE
STA. 73+19.24, 13.30' RT
3/4" DOM WATER SERVICE
STA. 70+48.38, 11.00' RT
3/4" DOM WATER SERVICE
STA. 70+98.38, 11.00' RT
3/4" DOM WATER SERVICE
STA. 71+48.38, 11.00' RT
3/4" DOM WATER SERVICE
STA. 71+58.06, 11.00' RT
3/4" DOM WATER SERVICE (TYP)
9
W-13
11
W-13
CB I
RIM=407.12
IE 12"(E) CPP=403.27
DMH
RIM=407.12
IE 18"(N) CPP=394.40
IE 36"(S) CPP=392.75
IE 18"(W) CPP=394.39
IE 30"(E) CPP=393.05
CB II
RIM=406.79
IE 12"(N) CPP=402.66
IE 12"(NE) CPP=402.69
IE 18"(S) IRON=402.36
CB II
RIM=405.80
IE 18"(N,S) IRON=401.95
IE 12"(W) IRON=401.95
IE 12"(E) IRON=402.10
DMH
RIM=405.23
IE 36"(NW) CPP=392.46
IE 36"(SW) CPP=392.41
IE 12"(E) CPP=397.73
DMH
RIM=399.10
IE 36"(NW,E) CPP=379.10
IE 36"(SW) CPP=380.03
IE 36"(NE) CPP=380.03
IE 18"(S) CPP=382.90
IE 18"(N) CPP=382.26
CB II
RIM=391.22
IE 12"(N) IRON=383.90
IE 12"(S) IRON=384.42
IE 12"(E) IRON=384.26
TWIN PINE (13",13")
30' DRIP
31" DEG
24" DRIP
21" PINE
20' DRIP
34" DRIP
29" PINE
30' DRIP
24" DRIP
TWIN PINE
24' DRIP
TWIN PINE
24' DRIP
TWIN PINE
24'





KEY MAP
NTS

CONSTRUCTION NOTES:

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N

0 10 20 40
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45 Water District KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: _____ DATE: _____

DEA #__-__

APRIL 2017 PERMIT DOCUMENTS

(W.D. #45, PHASE XX)

NO.	BY	DATE	REVISIONS
1		04/05/17	ORIGINAL SUBMITTAL

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KING COUNTY
WATER DISTRICT NO. 45
WATER MAIN EXTENSION

Greenbridge

SCALE	DES. FLD. BK.	CST. FLD. BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	TAD
CHECKED	AGC
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

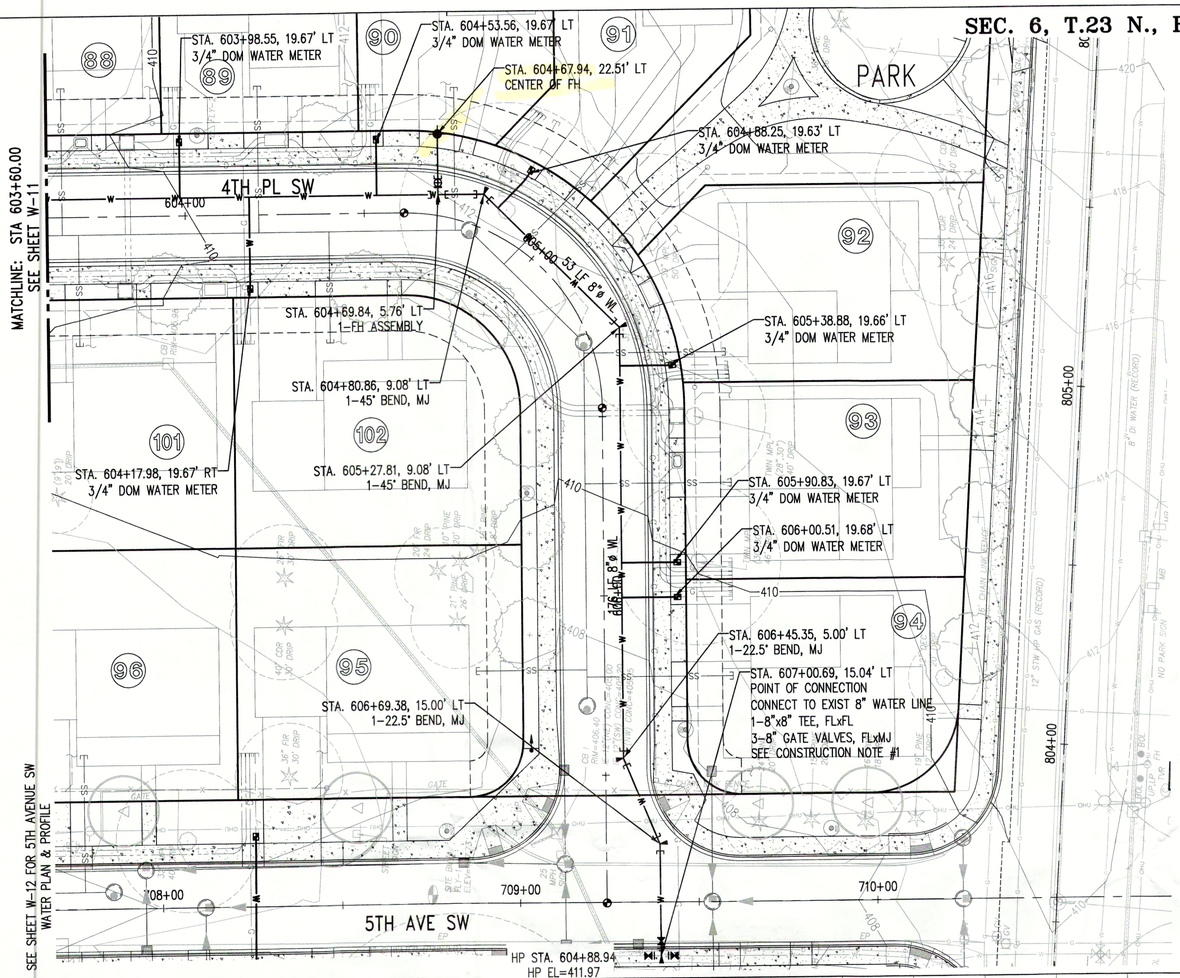
GREENBRIDGE DIVISION 8

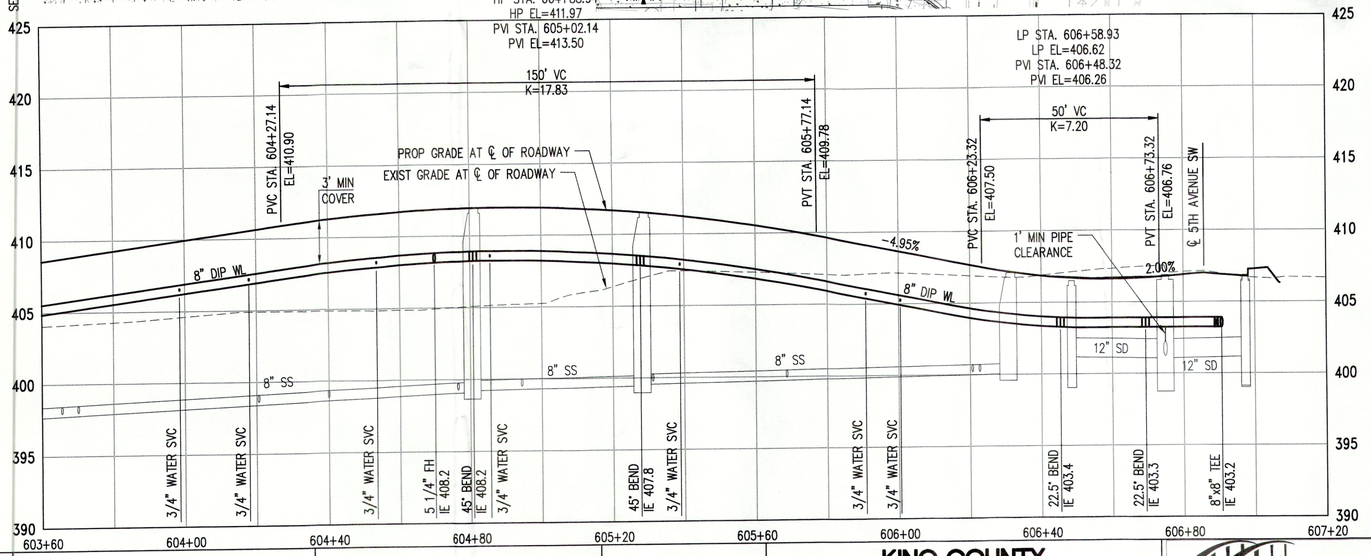
SW 101ST PLACE AND 5TH PLACE SW PLAN AND PROFILE

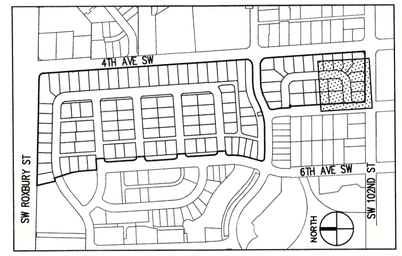
BASE MAP
SHEET 12 OF 16
DRAWING
W-10

Apr 05, 2017 - 2:03pm BrianB
Z:\1600001-1600999\1600206 (Greenbridge)\CAD\Design\100\WD45\09-GB WD45 11 ROAD E-N.dwg

SEC. 6, T.23 N., R.4E., W.M.







KEY MAP
NTS

CONSTRUCTION NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE AND MATERIAL OF EXISTING WATERMAIN IN THE PRESENCE OF WD#45 INSPECTOR. PREPARE A SKETCH REFLECTING SEQUENCE FOR SHUTTING DOWN AND CONNECTING TO EXIST. WATERMAINS FOR APPROVAL BY WD#45 INSPECTOR.
2. NO CONNECTION TO THE EXISTING SYSTEM SHALL BE MADE UNTIL AFTER PRESSURE AND PURITY TEST ACCEPTANCE AND AUTHORIZATION BY WD#45.
3. EXISTING FEATURES ARE NOT SHOWN FOR CLARITY. CONTRACTOR SHALL REFER TO THE SURVEY PLANS AND FIELD OBSERVATION FOR UTILITIES AND EXIST. STRUCTURES THAT MAY BE ENCOUNTERED DURING TRENCHING.

0 10 20 40
1 inch = 20 ft. HORZ
0 2.5 5 10
1 inch = 5 ft. VERT

811 Call 811 two business days before you dig

Water District 45 KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: _____ DATE: _____

DEA #__-__

APRIL 2017 PERMIT DOCUMENTS

(W.D. #45, PHASE XX)

NO.	BY	DATE	REVISIONS
1		04/05/17	ORIGINAL SUBMITTAL

kpff
1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com

ALBERTO G. SANTOS
STATE OF WASHINGTON
32120
REGISTERED
PROFESSIONAL ENGINEER

KING COUNTY WATER DISTRICT NO. 45

WATER MAIN EXTENSION

Greenbridge

SCALE HORIZ: VERT:	DES.FLD.BK. NO. PG.	CST.FLD.BK. NO. PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	TAD
CHECKED	AGC
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

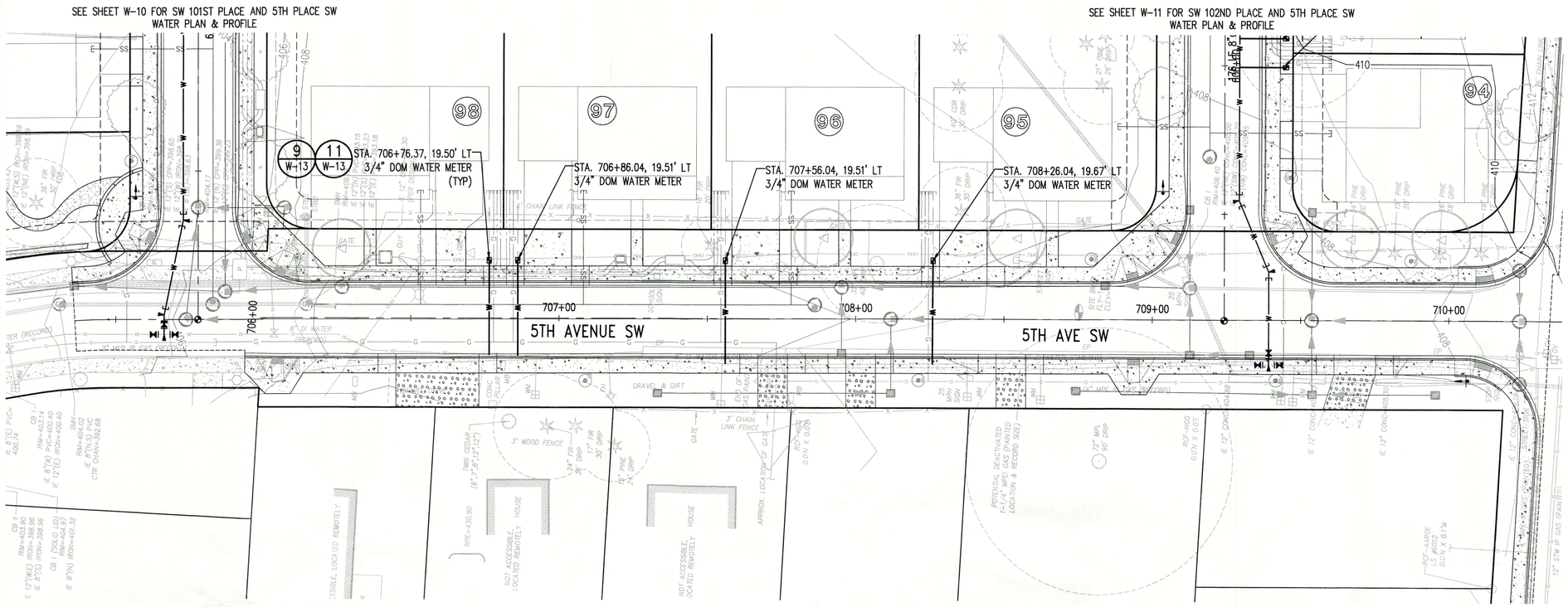
GREENBRIDGE DIVISION 8

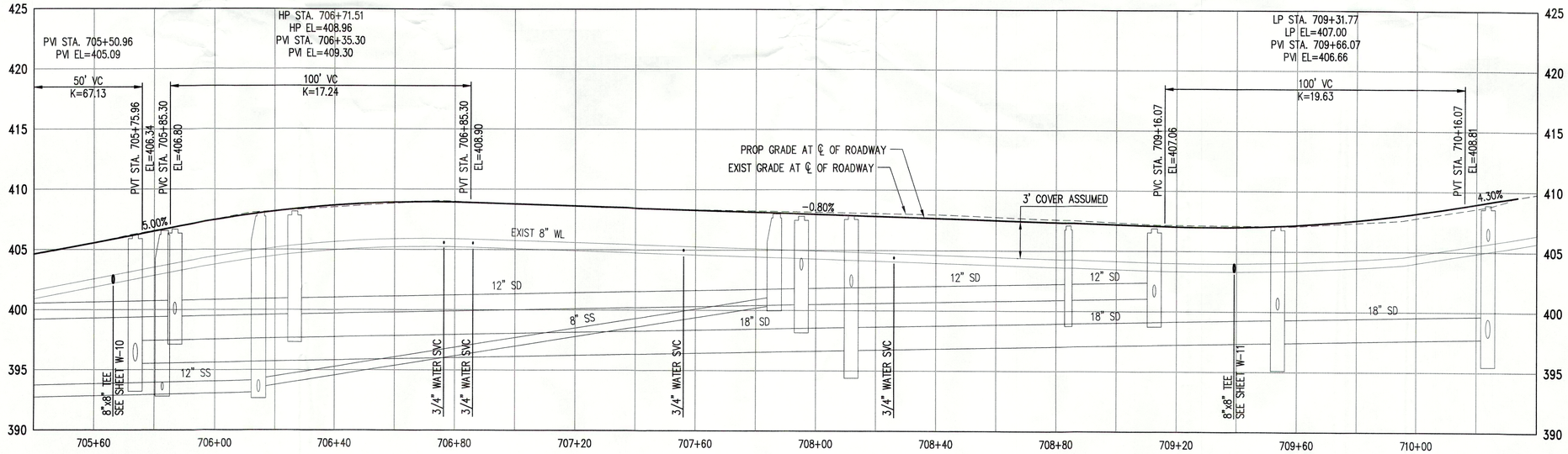
5TH PLACE SW AND SW 102ND PLACE PLAN AND PROFILE

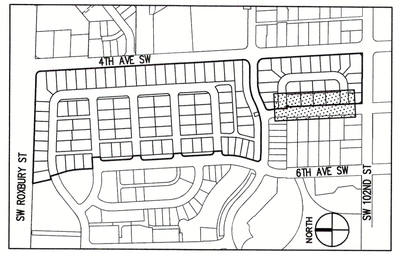
BASE MAP
SHEET 13 OF 16
DRAWING
W-11

Apr 05, 2017 - 2:05pm BrianB
Z:\1600001-1600999\1600206 (Greenbridge)\CAD\Design\D01\WD45\09-GB WDMS 11 ROAD E-N.dwg

SEC. 6, T.23 N., R.4E., W.M.







KEY MAP
NTS

CONSTRUCTION NOTES:

1. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE AND MATERIAL OF EXISTING WATERMAIN IN THE PRESENCE OF WD#45 INSPECTOR. PREPARE A SKETCH REFLECTING SEQUENCE FOR SHUTTING DOWN AND CONNECTING TO EXIST. WATERMAINS FOR APPROVAL BY WD#45 INSPECTOR.
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N

0 10 20 40
1 inch = 20 ft. HORZ
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811 Call 811 two business days before you dig

Water District 45
KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: _____ DATE: _____

(W.D. #45, PHASE XX)

DEA #__-__

APRIL 2017 PERMIT DOCUMENTS

NO.	BY	DATE	DESCRIPTION
1		04/05/17	ORIGINAL SUBMITTAL

REVISIONS

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1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
www.kpff.com

ALBERTO G. CISNEROS STATE OF WASHINGTON 32120 REGISTERED PROFESSIONAL ENGINEER

KING COUNTY WATER DISTRICT NO. 45

WATER MAIN EXTENSION

Greenbridge

SCALE	DES.FLD.BK.	CST.FLD.BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	TAD
CHECKED	AGC
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

GREENBRIDGE DIVISION 8

5TH PLACE SW AND SW 102ND PLACE PLAN AND PROFILE

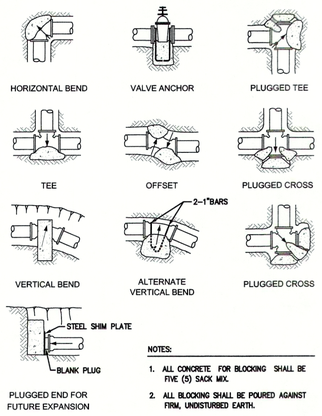
BASE MAP

SHEET 14 OF 16

DRAWING W-12

Apr 05, 2017 - 2:06pm BrianB Z:\1600001-1600999\1600206 (Greenbridge)\CADD\Design\00\W045\09-GB W045 11 ROAD E-N.dwg

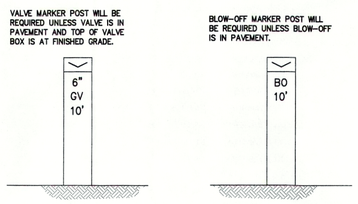
SEC. 6, T.23 N., R.4E., W.M.



NOTES:

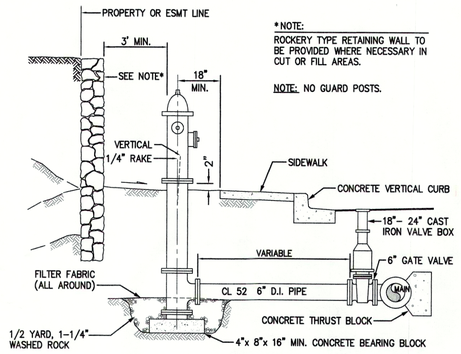
1. ALL CONCRETE FOR BLOCKING SHALL BE FIVE (5) SACK MIX.
2. ALL BLOCKING SHALL BE POURED AGAINST FIRM, UNDISTURBED EARTH.

2 — CONCRETE BLOCKING DETAIL
NTS



NOTE: MARKER POST PAINTED WITH 2 COATS OF WHITE PAINT, LETTERS SHALL BE 2" HIGH AND STENCILED IN BLACK PAINT.

3 — POST DETAILS
NTS



*NOTE:
ROCKERY TYPE RETAINING WALL TO BE PROVIDED WHERE NECESSARY IN CUT OR FILL AREAS.

NOTE: NO GUARD POSTS.

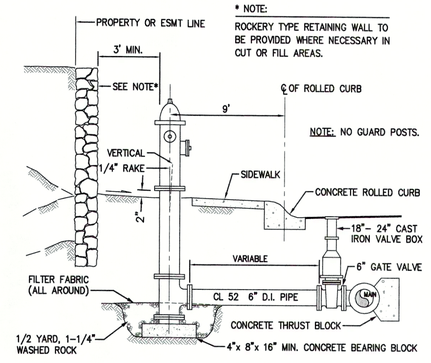
HYDRANT RUN:

1. LENGTH ESTABLISHED ON JOB, APPROVED BY ENGINEER.
   - A. USE 6" DI PIPE, FLANGED, (SHORT RUNS ONLY),
   - B. OR 6" DI PIPE, MJ WITH MEG-A-LUG OR UNI-FLANGE ONLY.

HYDRANT:

1. SHALL BE STD. 5-1/4" MVO W/ TWO 2-1/2" PORTS AND ONE 4" STEAMER PORT. ALL THREADS ON PORTS SHALL BE SEATTLE. OPERATING NUT AND PORT CAP OPERATING NUT SHALL BE 1-1/4'.
2. SHALL BE CLEANSED & PRIME COATED WITH HEAVY DUTY BRUSH TYPE PRIMER OR APPROVED EQUAL. ALL HYDRANTS SHALL BE PAINTED FARWEST PAINT MFG. CO. #X-3472 CASE YELLOW. TWO TOP COATS SHALL BE OIL RESISTANT ENAMEL, BRUSH TYPE OR APPROVED EQUAL.
3. AREA GROUND SURFACE TO BE GRADED UNIFORMLY AROUND HYDRANT (3' RADIUS). CENTURION" ONLY & SHALL CONFORM TO AWWA C-502 EXCEPT
4. SHALL BE CLOW "MEDALLION", M&H "929", MUELLER "SUPER AS HEREIN MODIFIED.
5. INSTALL STIMSONITE MODEL 88-A/BLUE REFLECTIVE PAVEMENT MARKER, OR EQUAL, ON HYDRANT SIDE OF THE CENTER LINE OF THE ADJACENT STREET IN DIRECT LINE WITH THE HYDRANT.

4 — FIRE HYDRANT DETAIL-VERTICAL CURB
NTS



* NOTE:
ROCKERY TYPE RETAINING WALL TO BE PROVIDED WHERE NECESSARY IN CUT OR FILL AREAS.

NOTE: NO GUARD POSTS.

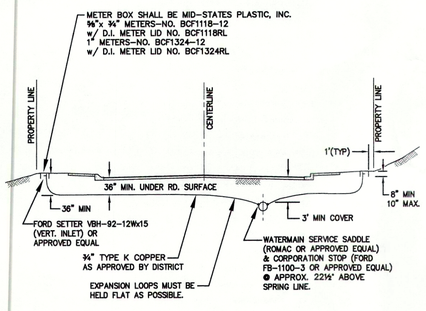
HYDRANT RUN:

1. LENGTH ESTABLISHED ON JOB, APPROVED BY ENGINEER.
   - A. USE 6" DI PIPE, FLANGED, (SHORT RUNS ONLY),
   - B. OR 6" DI PIPE, MJ WITH MEG-A-LUG OR UNI-FLANGE ONLY.

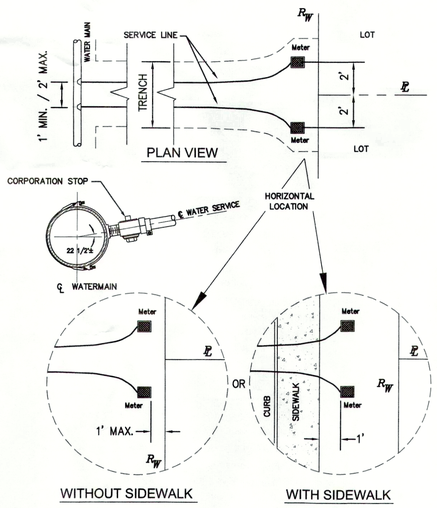
HYDRANT:

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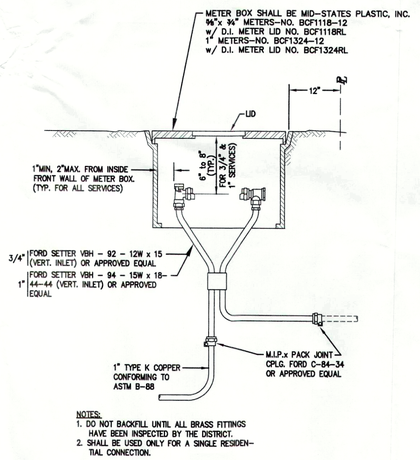
5 — FIRE HYDRANT DETAIL-ROLLED CURB
NTS



7 — TYPICAL ROAD SECTION ALT. NO. 1
NTS



9 — METER BOX LOCATION
NTS



NOTES:
1. DO NOT BACKFILL UNTIL ALL BRASS FITTINGS HAVE BEEN INSPECTED BY THE DISTRICT.
2. SHALL BE USED ONLY FOR A SINGLE RESIDENTIAL CONNECTION.

11 — WATER SERVICE DETAIL w/ SETTER
NTS

Call 811 two business days before you dig

45 Water District KING COUNTY

APPROVED CONSTRUCTION DRAWINGS: _____ DATE: _____

(W.D. #45, PHASE XX)

DEA #__-__

NO.	BY	DATE	REVISIONS
1		04/05/17	ORIGINAL SUBMITTAL

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ALBERTO G. CISNEROS — STATE OF WASHINGTON — 32120 — REGISTERED PROFESSIONAL ENGINEER

KING COUNTY WATER DISTRICT NO. 45

WATER MAIN EXTENSION

Greenbridge

SCALE	DES.FLD.BK.	CST.FLD.BK.
HORIZ:	NO.	NO.
VERT:	PG.	PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	TAD
CHECKED	AGC
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON

GREENBRIDGE DIVISION 8

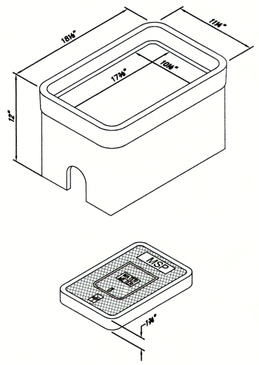
STANDARD DETAILS

BASE MAP

SHEET 15 OF 16

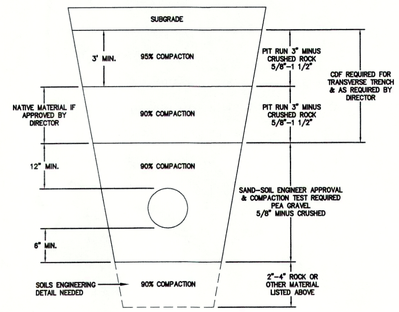
DRAWING W-13

Apr 05, 2017 - 1:58pm BruceB Z:\1600001-1602999\1600206 (Greenbridge)\CADD\Design\D01\WD45\10-08 WD45 12 DTLS.dwg



DI METER LID w/READER
NO. BCF1118RL

26 – MID-STATES HDPE METER BOX
NO. BCF1118-12 FOR 5/8"x 3/4" METER
NTS



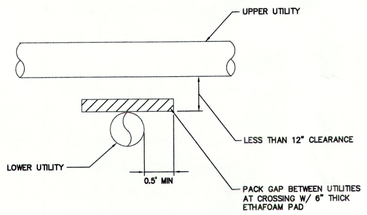
NOTES:

1. BEDDING-IN RIGHT OF WAY, DRIVEWAY PARKING LOTS, PAVED AREAS.
2. BEDDING FOR RIGID PIPE-NATIVE MATERIAL UNLESS JUDGED UNSUITABLE BY THE CITY CONSTRUCTION INSPECTOR.

TRENCH WIDTHS			
NOMINAL PIPE DIAMETER	MINIMUM EARTH	MINIMUM ROCK	MAXIMUM
2	18	24	36
3	18	24	36
4	18	24	36
6	21	24	36
8	24	24	36
12	28	28	40

(IN INCHES)

30 – TYPICAL TRENCH IN PAVED AREAS & AREA WITHIN THE RIGHT-OF-WAY
NTS



A – ETHAFOAM DETAIL

Call 811 two business days before you dig

45 Water District KING COUNTY
APPROVED CONSTRUCTION DRAWINGS: _____ DATE: _____

(W.D. #45, PHASE XX)

DEA #__-__

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SCALE HORIZ: VERT:	DES.FLD.BK. NO. PG.	CST.FLD.BK. NO. PG.

DATE APPROVED	
PRINCIPAL APPROVAL	MAV
DESIGN	BJB
DRAWN	TAD
CHECKED	AGC
JOB NO.	1600206

KING COUNTY HOUSING AUTHORITY
WHITE CENTER, WASHINGTON
GREENBRIDGE DIVISION 8
STANDARD DETAILS

BASE MAP
SHEET 16 OF 16
DRAWING
W-14

Apr 05, 2017 - 1:59pm BhanB Z:\1600001-1600999\1600206 (Greenbridge)\CAD\Design\100\WD45\10-GB WD45 12 DTLS.dwg