### NW 1/4 SECTION 8, TOWNSHIP 23 N, RANGE 4 E, W.M. BEVERLY PARK ELEMENTARY SCHOOL SEWER EXTENSION

<u>NATURAL GAS LINE</u> CONFIRM LOCATION

BEFORE YOU DIG

BEVERLY PARK

ELEMENTARY

FROM EXCAVATION (TYP)

0798000457

0798000472

T.E.S.C. LEGEND.

DUST CONTROL (BMP C140)

STREET SWEEPING & VACUUMING

INLET PROTECTION (BMP C220)

STABILIZED CONSTRUCTION ENTRANCE (BMP C105)

PAVEMENT

(DC)-

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. .

BASIS OF BEARINGS: (BY BHC CONSULTANTS, LLC)

116TH ST. & 3RD AVE. S.

SEPTIC ABANDONMENT:

SUBMIT TO KING COUNTY HEALTH DEPARTMENT.

INSTALLER IN ACCORDANCE WITH KCBOH 13.04.054.B.

KC SHORT PLAT S90S0058 RECORDING NO. 9111229015; CENTERLINE S. 120TH ST. ROTATED TO

EXISTING SEWAGE TANKS SHALL BE ABANDONED IN ACCORDANCE WITH KCBOH 13.04.054.A AND WAC

246-272A-0300. TANKS SHALL HAVE ALL SEPTAGE REMOVED BY A KING COUNTY APPROVED PUMPER, SHALL HAVE

GRAVEL. A RECEIPT FROM THE PUMPER SHOWING THE PUMPERS NAME AND REGISTRATION NUMBER, TANK LOCATION,

DEPARTMENT. THE CONTRACTOR SHALL ALSO COMPLETE A SEPTIC TANK ABANDONMENT FORM FOR EACH TANK AND

EXISTING SEPTIC DRAIN FIELDS TO BE ABANDONED IN PLACE OR REMOVED. ALL CONTAMINATED ROCK, SAND, GRAVEL

OR OTHER MATERIAL FROM SEPTIC SYSTEM REMOVAL SHALL BE PROPERLY DISPOSED OF BY TRANSPORTING IT TO AN APPROVED SANITARY LANDFILL. THE PROCESS OF DISPOSAL SHALL BE SUPERVISED BY A LICENSED MASTER SEPTIC

THEIR LIDS REMOVED OR DESTROYED, AND SHALL BE CRUSHED IN PLACE OR FILLED COMPLETELY WITH SOIL OR

AND VOLUME OF SEPTAGE REMOVED SHALL BE MADE AVAILABLE TO THE ENGINEER AND THE COUNTY HEALTH

PUMPS AND APPARATUS (INCLUDING ELECTRICAL CONTROL PANELS, CONDUITS, AND PUMP ALARMS) SHALL BE

REMOVED. ELECTRICAL CONNECTIONS SHALL BE TERMINATED BY A LICENSED ELECTRICAL CONTRACTOR.

FOUND MONUMENTS AT INTERSECTION 1ST AVE. S. & S. 120TH ST., AND INTERSECTION OF S.

TAKEN ON JANUARY 8, 2014, UNLESS OTHERWISE INDICATED.

ALL DISTANCES SHOWN ARE GROUND DISTANCES UNLESS OTHERWISE NOTED. 2. THE LOCATION AND DESCRIPTION OF ALL SURVEY MARKERS SHOWN HEREON ARE BASED ON FIELD OBSERVATIONS

3. THE PRIMARY MEASUREMENT EQUIPMENT UTILIZED IN THE PERFORMANCE OF THIS SURVEY IS A TRIMBLE 5700 GPS RECEIVER IN RTK MODE. THE SECONDARY MEASUREMENT EQUIPMENT IS A 3" TRIMBLE S6 SERIES TOTAL STATION. ALL SECONDARY MEASUREMENT EQUIPMENT UTILIZED HAS BEEN COMPARED TO AND ADJUSTED AGAINST A NATIONAL GEODETIC SURVEY CALIBRATED BASELINE WITHIN THE PREVIOUS 12 MONTHS. THE RELATIVE LOCATION OF ALL SURVEY MONUMENTS AND MARKERS SHOWN ON THIS MAP ARE BASED ON A CLOSED LOOP FIELD TRAVERSE. THE LINEAR ERROR OF CLOSURE. AFTER ADJUSTMENT OF ANGLES, IS EQUAL TO OR BETTER THAN 1 PART IN 10,000. THE METHOD OF ADJUSTMENT USED WAS LEAST SQUARES ADJUSTMENT. SURVEY ACCURACY MEETS OR EXCEEDS W.A.C. 332-130-090.

4. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT AND DOES NOT PURPORT TO SHOW ALL

5. THIS TOPOGRAPHIC SURVEY DRAWING ACCURATELY PRESENTS SURFACE FEATURES LOCATED DURING THE COURSE OF THIS SURVEY. UNDERGROUND UTILITIES SHOWN HEREON ARE BASED SOLELY UPON INFORMATION PROVIDED BY OTHERS AND PACE ENGINEERS, INC. BHC CONSULTANTS, LLC, AND THE OWNER DO NOT ACCEPT RESPONSIBILITY OR ASSUME LIABILITY FOR THEIR ACCURACY OR COMPLETENESS. CONTRACTOR/ENGINEERS SHALL VERIFY EXACT SIZE AND LOCATION PRIOR TO CONSTRUCTION. CALL FOR LOCATE: UTILITY LOCATION SERVICE: 1-800-424-5555.

GENERAL NOTES:

THAN PRIOR TO CONSTRUCTION.

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. THE OWNER OR HIS REPRESENTATIVE, SOUTHWEST SUBURBAN SEWER DISTRICT (SWSSD) AND THE ENGINEER, SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS. ALL UTILITIES DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION SPECIFICALLY STATED. ALL UTILITY RESTORATION WORK SHALL BE CONSIDERED INCIDENTAL TO THE WORK PERFORMED FOR SEWER PIPE NSTALLATION AND, THEREFORE, NO EXTRA COMPENSATION SHALL BE ALLOWED.

2. WHERE WATER MAIN CROSSES ABOVE THE SANITARY SEWER AND LESS THAN 36" OF VERTICAL CLEARANCE EXISTS BETWEEN THE TOP OF THE SEWER AND THE BOTTOM OF THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED WITH DUCTILE IRON PIPE (CLASS 52). FOR A MINIMUM HORIZONTAL DISTANCE OF 20 FEET. CENTERED UNDERNEATH THE WATER MAIN CROSSING. THIS ITEM OF WORK, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF THE SECTION OF DUCTILE IRON PIPE, ALONG WITH PART OF THE BID ITEM FOR PVC SEWER PIPE. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR D.I. SEWER PIPE.

3. FOR CONNECTIONS INTO EXISTING MANHOLES. ONLY APPROVED COUPLINGS OR ADAPTERS AND MATERIALS SHALL BE USED.

4. ANY CHANGES TO THIS DESIGN SHALL APPROVED BY SWSSD AND THE ENGINEER PRIOR TO INSTALLATION. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO CONDITIONS EQUAL TO OR BETTER

6. ALL WORK WITHIN RIGHT-OF-WAY SHALL CONFORM WITH ALL APPLICABLE REQUIREMENTS AS SET FORTH BY CITY OF BURIEN AND KING COUNTY. ALL RIGHT-OF-WAY CONSTRUCTION SHALL COMPLY WITH REQUIREMENTS OF PERMITS OBTAINED FOR THIS PROJECT.

7. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH SWSSD STANDARDS AND REQUIREMENTS EXCEPT AS

8. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD PRIOR TO THE START OF CONSTRUCTION AND SHALL BE ATTENDED BY THE CONTRACTOR, SWSSD REPRESENTATIVES, UTILITIES AND OTHER INTERESTED AGENCIES.

9. ALL SEWER PIPE INSTALLED SHALL BE INSPECTED BY C.C.T.V. PER SOUTHWEST SUBURBAN SEWER DISTRICT

10. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST FIVE (5) WORKING DAYS IN ADVANCE OF THE NEED

11. THE CONTRACTOR SHALL PERFORM WORK IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, AND HE SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK, NOT JUST LIMITED TO NORMAL WORKING DAYS AND HOURS. THE DISTRICT WILL NOT BE RESPONSIBLE FOR DETERMINING THE ADEQUACY OF ANY SAFETY SYSTEM USED BY THE CONTRACTOR, AND PAYMENT FOR TRENCH SAFETY SYSTEMS WILL NOT IMPLY OWNER'S APPROVAL OF ADEQUACY.

12. WHETHER REFLECTED ON THE PROJECT PLANS, OR LATER DETERMINED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL POTHOLE ALL CONFLICTING UTILITY LINES PRIOR TO THE START OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF A CONFLICT EXISTS. SEWER DESIGN WILL

13. SIDE SEWER STUBS (SEE SPECIFICATIONS FOR DETAILS). A.. SIDE SEWER STUBS FOR RECONNECTING EXISTING SEWER SERVICES SHALL BE PER STANDARD DETAIL

B SIDE SEWER STUBS SHALL BE 6" MINIMUM DIAMETER AT 2% MINIMUM SLOPE.

C. SIDE SEWER STUBS SHALL BE INSPECTED BY C.C.T.V. AT THE SAME TIME THE SEWER MAIN LINE IS

D. SIDE SEWER STUBS TO VACANT LOTS SHALL EXTEND TO THE PROPERTY LINE ONLY AND THE ENDS MARKED PER STANDARD DETAIL 10, EXCEPT AS MODIFIED HEREIN.

14. THE CONTRACTOR SHALL PROVIDE EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED TO PREVENT SILTATION OF STORM DRAINAGE SYSTEMS OR NATURAL WATER COURSES. FACILITIES SHALL BE MAINTAINED, MOVED OR UPGRADED AS CONSTRUCTION PROGRESSES AND DEPENDENT ON WEATHER AND CLIMATIC CONDITIONS. MINIMUM FACILITIES SHALL INCLUDE SILT FENCE DOWNSTREAM OF CONSTRUCTION. COVERING OF STOCKPILED MATERIALS. FILTER FABRIC AT CATCH BASIN GRATES AND WADDLE-TUBES WITH PEA BAGS IN DRAINAGE SWALES.

INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND WITH GOOD CONSTRUCTION PRACTICES AND SHALL BE INSPECTED DAILY TO ASSURE PROPER OPERATION. ALL DISTURBED AREAS SHALL BE STABILIZED AGAINST EROSION PROMPTLY AND THOROUGHLY DURING PERIODS OF WET WEATHER WHEN WORK IS NOT BEING PERFORMED.

15. THE CONTRACTOR IS CAUTIONED THAT OVERHEAD ELECTRICAL SERVICE LINES ARE GENERALLY NOT SHOWN ON THE DRAWINGS. ELECTRICAL LINES, IF SHOWN ON THE DRAWINGS ARE LOCATED BY POINT-TO-POINT, POWER-POLE-TO-POWER-POLE CONNECTION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXTENT OF ANY HAZARD CREATED BY OVERHEAD ELECTRICAL POWER IN ALL AREAS AND SHALL FOLLOW PROCEDURES DURING CONSTRUCTION AS REQUIRED BY LAW AND REGULATION. THE CONTRACTOR SHALL BE REQUIRED TO PLAN AND IMPLEMENT SUITABLE SUPPORT SYSTEMS FOR ANY EXISTING POWER POLES THAT ARE WITHIN 10 FEET OF

16. ALL DISTURBED ON-SITE AND OFF-SITE IMPROVEMENTS (FENCES, ROCKERIES, ETC) SHALL BE REPLACED IN KIND, OR IN ACCORDANCE WITH CONDITIONS AS INCLUDED IN THE SPECIFICATIONS.

17. TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION PUBLISHED BY WSDOT AND APWA, OR ADDITIONALLY REQUIRED BY THE CITY OF BURIEN, OR OTHER JURISDICTION RIGHT-OF-WAY PERMITS AS ISSUED FOR THE WORK. FLAGGERS AND OTHER TRAFFIC CONTROL DEVICES SHALL BE EMPLOYED AS NECESSARY DURING CONSTRUCTION. TRAFFIC DETOURS AND STREET CLOSURES REQUIRE AT LEAST 10 DAYS FOR CITY OF BURIEN AND KING COUNTY REVIEW AND APPROVAL.

18. CONSTRUCTION SHALL PREVENT EXCAVATED MATERIALS, SILT OR DEBRIS FROM ENTERING STORM DRAIN CATCH BASINS, OR THE SANITARY SEWER. ANY WATER CAPTURED AS PART OF DEWATERING SHALL BE DISPOSED OF IN ACCORDANCE WITH CONTRACTOR'S DEWATERING PLAN AS APPROVED BY THE ENGINEER. CONTRACTOR SHALL PREVENT STORM WATER, SURFACE WATER AND GROUND WATER FROM ENTERING THE SANITARY SEWER SYSTEM.

19. CONTRACTOR SHALL PROVIDE INGRESS AND EGRESS FOR RESIDENTS DURING CONSTRUCTION ACTIVITIES. SEE SPECIFICATIONS FOR SPECIAL CONDITIONS.

20. CONTRACTOR SHALL PROVIDE IMMEDIATE INGRESS AND EGRESS FOR EMERGENCY VEHICLES AT ALL TIMES.

21. THE LOCATIONS OF EXISTING SIDE SEWERS ARE TAKEN FROM AVAILABLE CONSTRUCTION RECORDS, MAY NOT BE COMPLETE OR ACCURATE AND ARE SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EACH SIDE SEWER SERVICE LINE AND PROVIDING THE NECESSARY LABOR AND MATERIALS TO MAKE THE NECESSARY CONNECTIONS IN ACCORDANCE WITH THE SPECIFICATIONS AND ACCEPTABLE TO SWSSD AND THE

22. SEE SPECIFICATIONS FOR SPECIAL CONDITIONS.

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.

24. 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.

25. FOR CONNECTIONS INTO EXISTING MANHOLES, WALL AND SHELF MUST BE CORE DRILLED.

26. ALL NEW MANHOLES SHALL HAVE ALL JOINTS ENCAPSULATED USING AN 18-INCH WIDE STRIP OF "WRAPIDSEAL"

27. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EQUIPMENT AND MATERIAL STAGING, INCLUDING THE USE OF OFF-SITE FACILITIES IF REQUIRED BY PERMITS.

VICINITY MAP

..SW SUBURBAN SEWER DISTRICT

NORTH

PROJECT DESCRIPTION:

ADDRESS OF THE PROPERTY:..11427 3RD AVENUE S, BURIEN, WA 98168 PARCEL NUMBER.... .. 0798000500

WATER DISTRICT:. KING COUNTY WATER DISTRICT 20

SCHOOL DISTRICT:. ..HIGHLINE NO. 401

...NORTH HIGHLINE FIRE DISTRICT FIRE DISTRICT:..

PROJECT CONTACTS:

SEWER DISTRICT:....

..HIGHLINE SCHOOL DISTRICT 401 .15675 AMBAUM BLVD SW . SEATTLE, WASHINGTON 98166 . (206) 631–3000 D.R. STRONG CONSULTING ENGINEERS, INC. .620 7TH AVENUE

. KIRKLAND, WASHINGTON 98033 . (425) 827-3063 .. CONTACT: LUAY R. JOUDEH, P.E.

### HORIZONTAL DATUM: (BY BHC CONSULTANTS, LLC)

. LUAY.JOUDEH@DRSTRONG.COM

NAD '83 '03, WASHINGTON COORDINATE SYSTEM NORTH ZONE. BASED ON RTK GPS MEASUREMENTS CONSTRAINED TO THE WASHINGTON STATE REFERENCE NETWORK.

VERTICAL DATUM: (BY BHC CONSULTANTS, LLC) NAVD 88 BASED ON RTK GPS MEASUREMENTS CONSTRAINED TO THE WASHINGTON STATE

SHEET INDEX:

COVER SHEET AND T.E.S.C. PLAN SANITARY SEWER PLAN AND PROFILE SANITARY SEWER DETAILS C1 THRU C3 KCDPER APPROVED PERMIT SET SEPTIC AS-BUILTS

REFERENCE NETWORK AND GEOID 2003 MODEL.

SANITARY SEWER RECORD DRAWINGS IN 3RD AVE S.

LEGEND:

SECTION CORNER AS NOTED FOUND MONUMENT AS NOTED

FOUND 1/2" REBAR WITH YELLOW PLASTIC CAP

SET 5/8" X 24" REBAR AND PLASTIC CAP PROPERTY LINE MONITOR WELL

ROAD SIGNAGE MAIL BOX POWER METER

POWER POLE LIGHT POLE NO ARM

WATER METER WATER VALVE FIRE HYDRANT

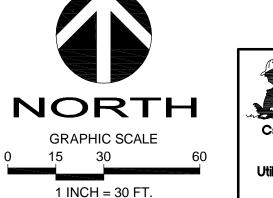
DECIDUOUS TREE

ROCKERY GAS VALVE GAS METER

EVERGREEN TREE OVERHEAD POWER

EDGE OF PAVEMENT CHAIN LINK FENCE AS NOTED *GRA VEL* 

CONCRETE



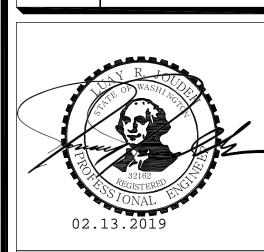
Call 2 Working Days Before You Dig **Utilities Underground Location Center** (ID,MT,ND,OR,WA)

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CONSULTING ENGINEERS ENGINEERS PLANNERS SURVEYORS 620 - 7th AVENUE KIRKLAND, WA 98033

O 425.827.3063 F 425.827.2423

SCHOOL NO. 401

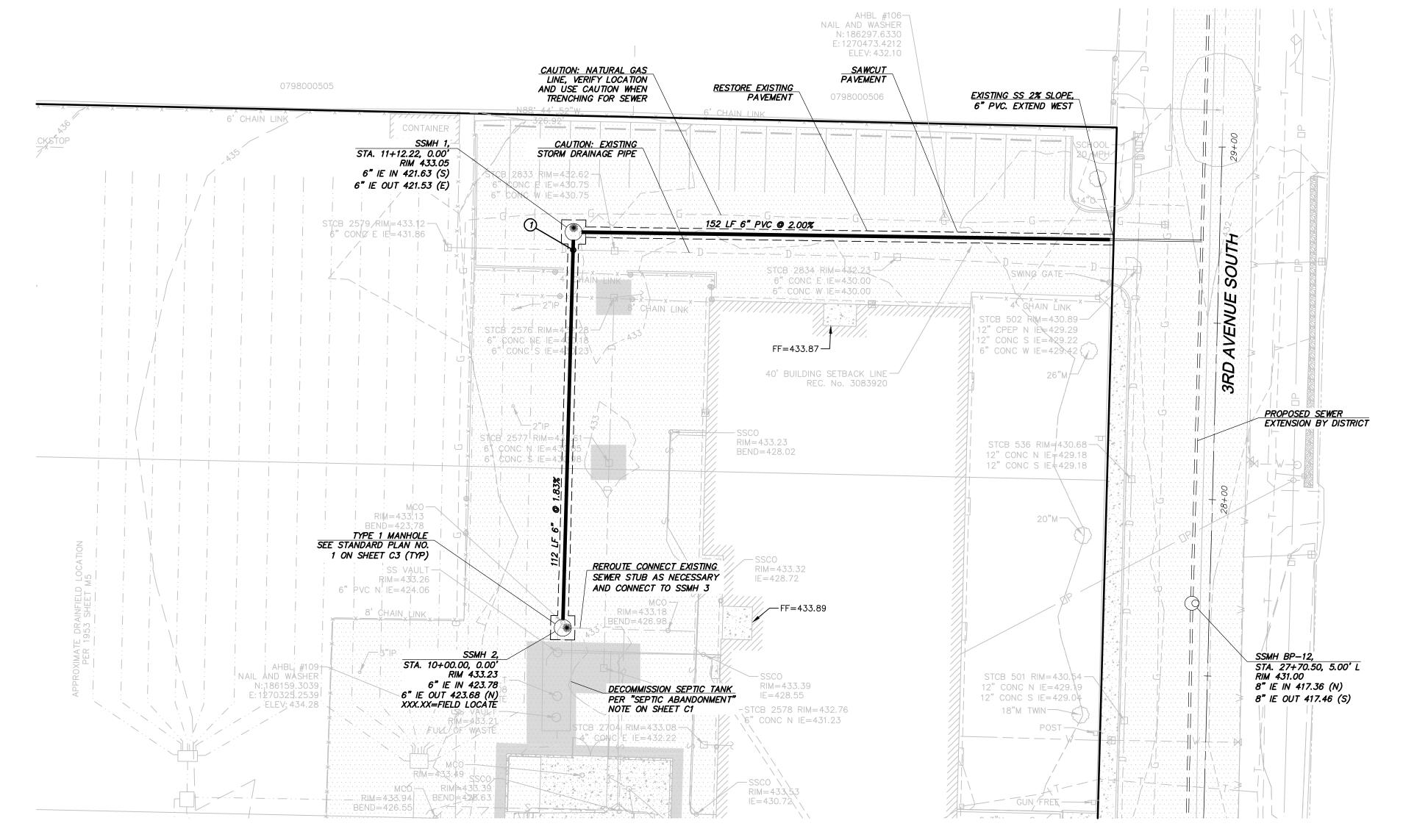


DRAFTED BY: CWA DESIGNED BY: LRJ DATE: **10.26.18** PROJECT NO.: 18123

DRAWING: C1 SHEET: 1 OF 3

PROJECT ENGINEER: LRJ

## NW 1/4 SECTION 8, TOWNSHIP 23 N, RANGE 4 E, W.M. BEVERLY PARK ELEMENTARY SCHOOL SEWER EXTENSION



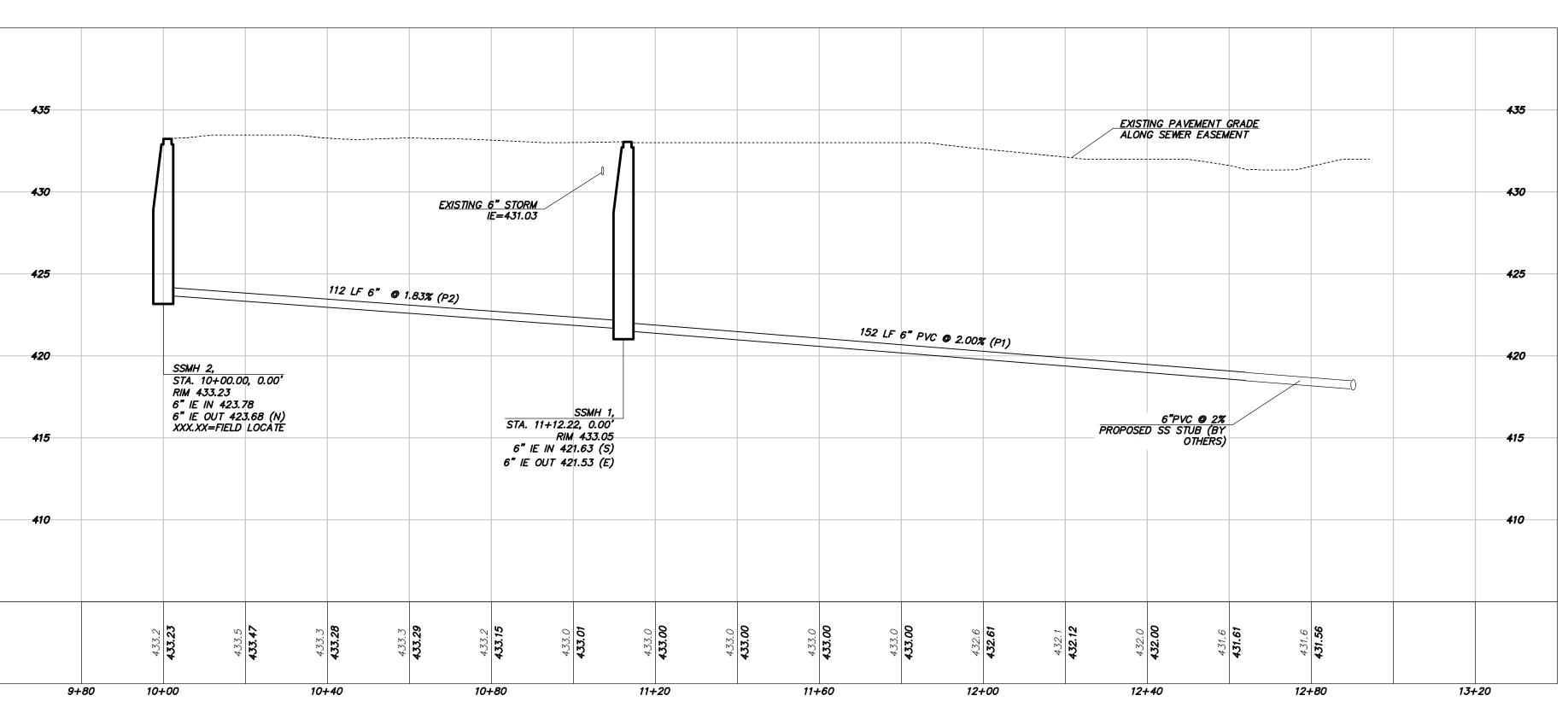
UTILITY CROSSING TABLE							
CROSSING #	UTILITY	PIPE DIAMETER (IN)	PIPE IE	BOTTOM OF PIPE	TOP OF PIPE	CLEARANCE	EG
1	EXISTING SD	6	431.03	431.03	431.53	9.42	433.03
	SS	6	421.61	421.61	422.11		

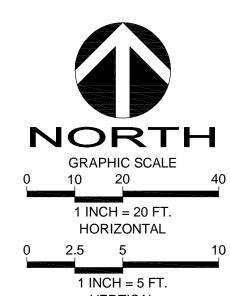
ALL SANITARY SEWER INFORMATION FOR 3RD AVENUE SOUTH WAS DERIVED FROM A PDF BY BHC CONSULTANTS, LLC DATED 10.26.2018

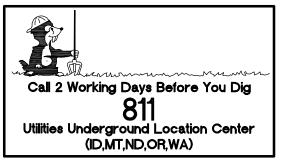
### SITE VOLUME CALCULATIONS

EXCAVATION VOLUME SELECT FILL VOLUME EXPORT VOLUME (CU. YDS.) (CU. YDS.)

"ALL VOLUMES ARE APPROXIMATE AND REPRESENT FINISH GRADE TO EXISTING GRADE AS SHOWN. THE VOLUMES DO NOT INCLUDE STRIPPING, STRUCTURAL EXCAVATION, EXPANSION FACTOR OR ANY SOIL TYPE
RESTRICTIONS." CONTRACTOR SHALL RELY ON THEIR OWN







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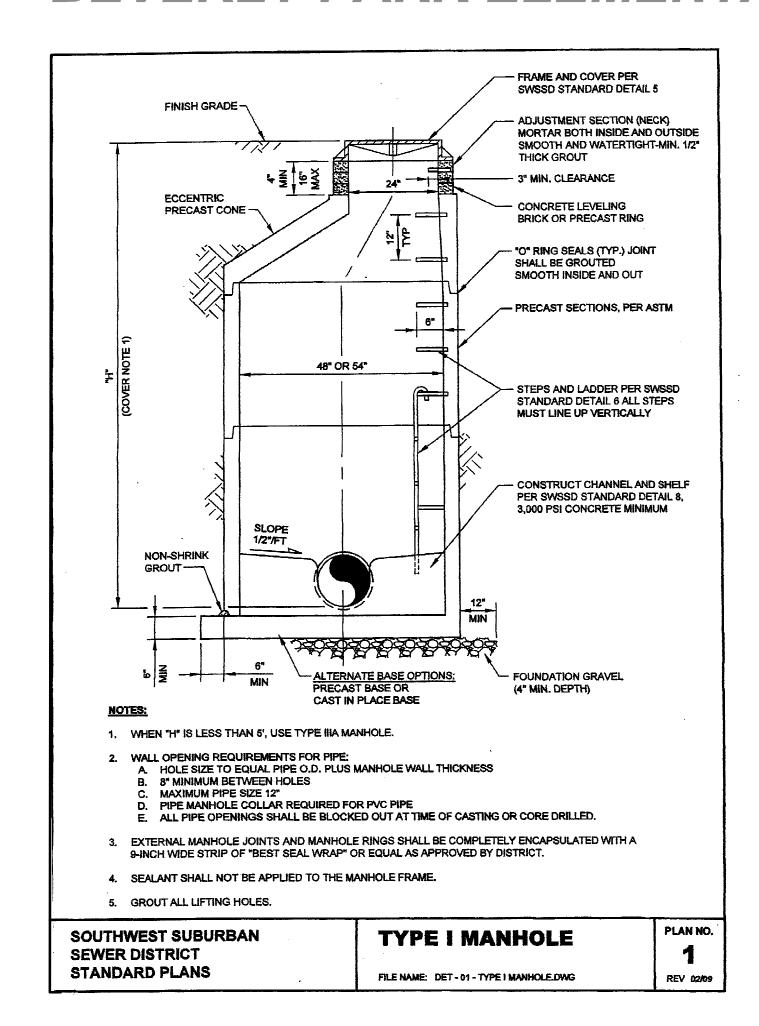
*SCHOOL NO. 401* 

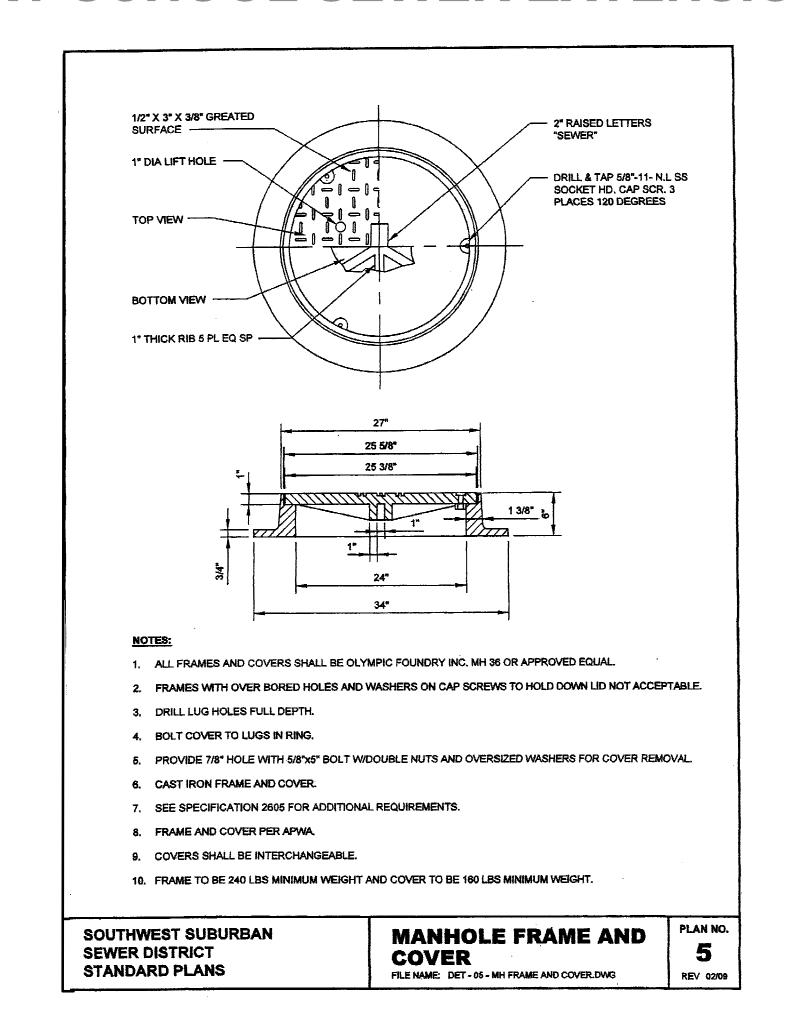


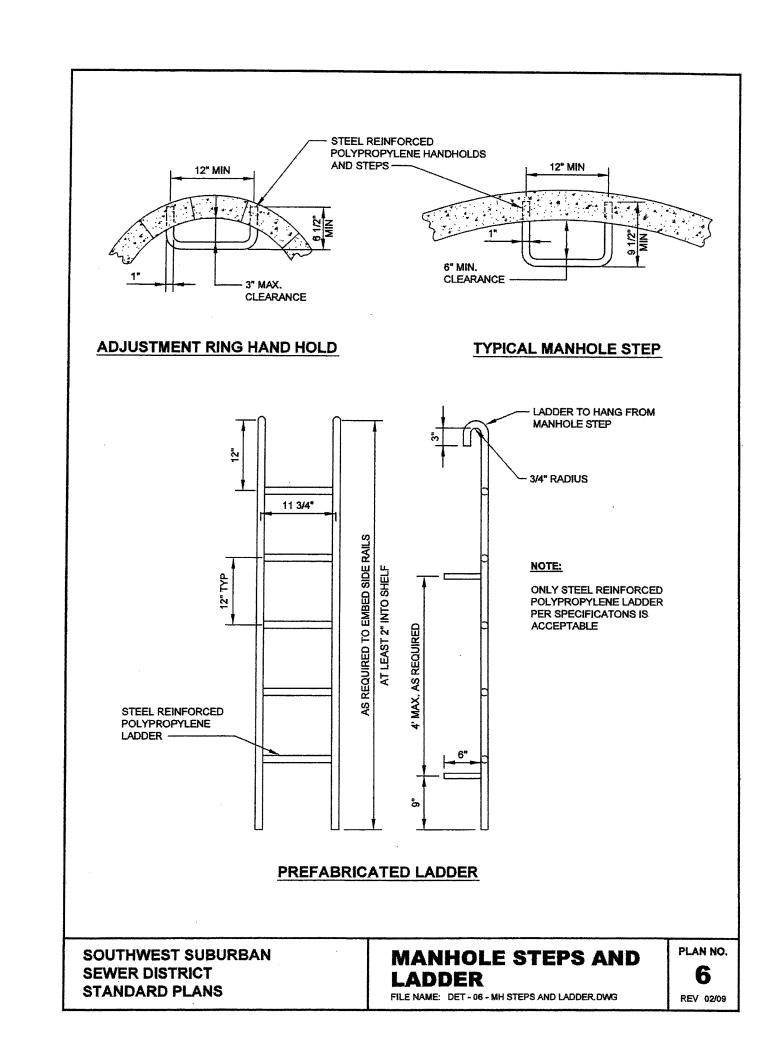
DRAFTED BY: CWA DESIGNED BY: LRJ PROJECT ENGINEER: LRJ DATE: 10.26.18 PROJECT NO.: **18123** 

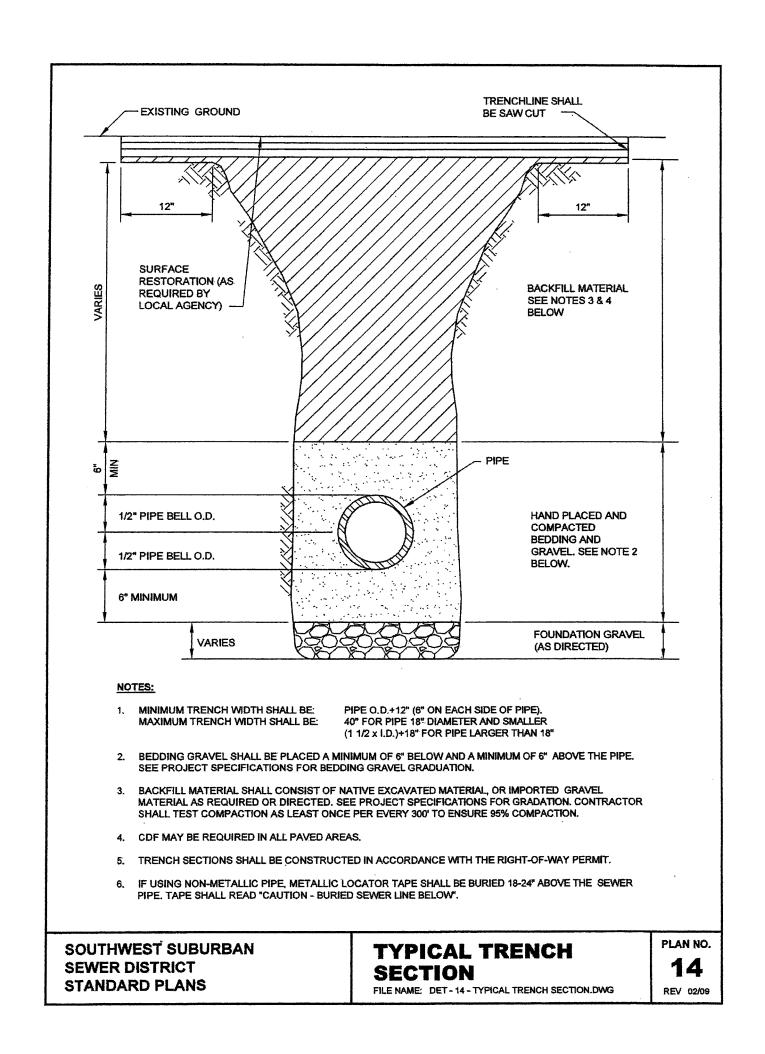
DRAWING: C2 SHEET: 2 OF 3

# NW 1/4 SECTION 8, TOWNSHIP 23 N, RANGE 4 E, W.M. BEVERLY PARK ELEMENTARY SCHOOL SEWER EXTENSION











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SCHOOL NO. 401



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DRAWING: C3 SHEET:  $\boldsymbol{3}$  OF  $\boldsymbol{3}$ 

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