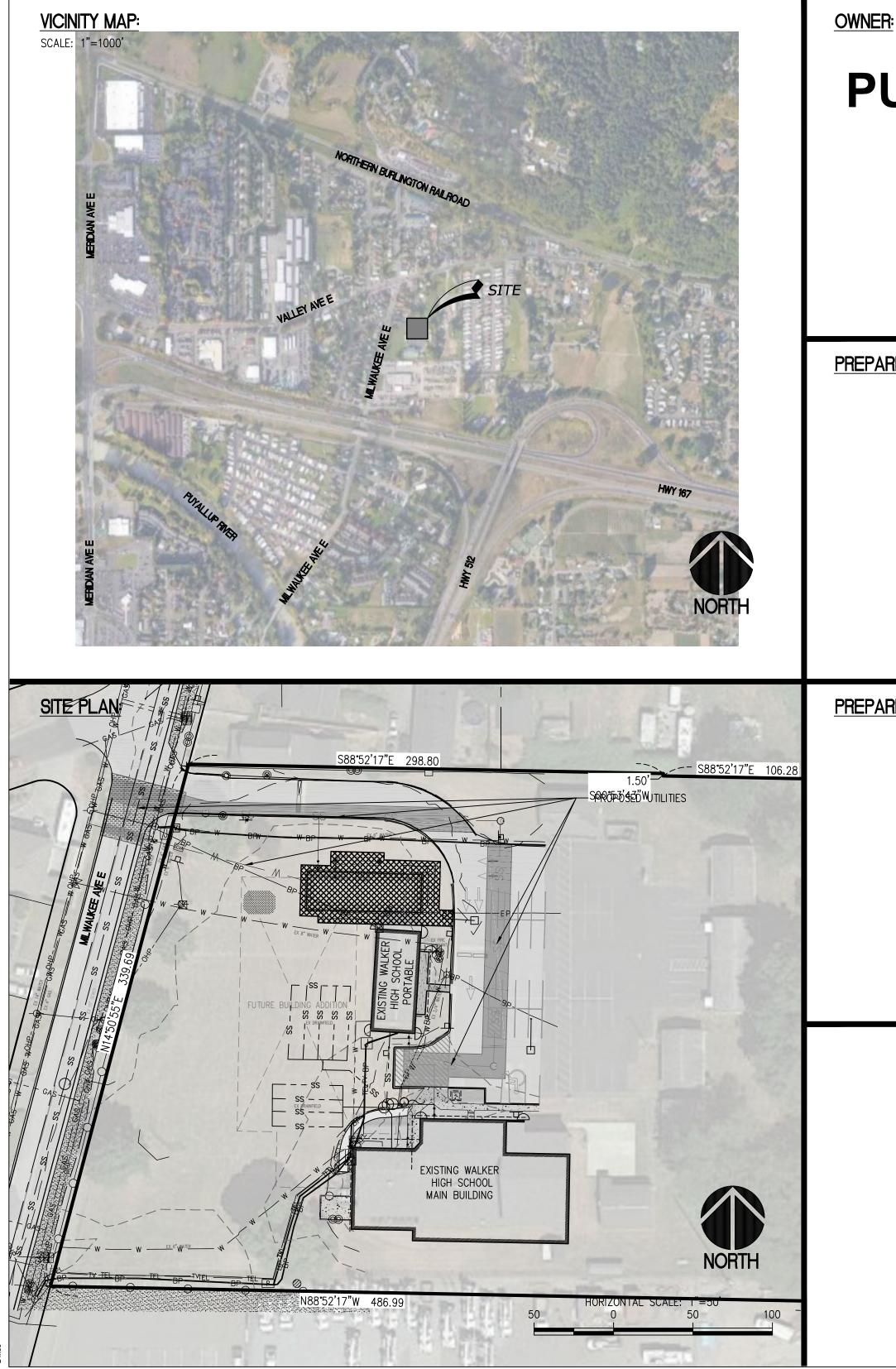
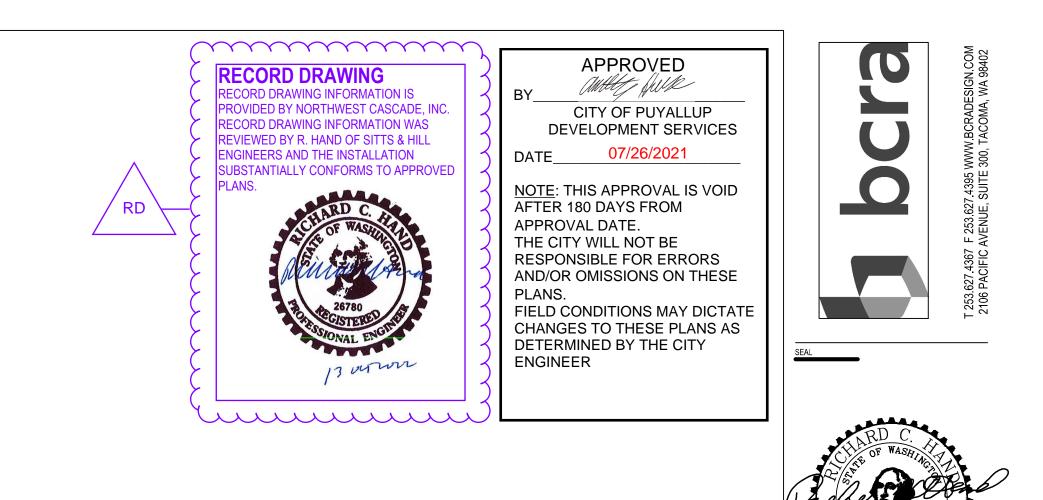
WALKER HIGH SCHOOL SITE UTILITIES PROJECT



5715 MILWAUKEE AVE E PUYALLUP, WA 98374

INDEX OF DRAWINGS: DRAWING No. SHEET **PUYALLUP SCHOOL DISTRICT NO. 3** ORTABLE RELOCATION DR. SHEET SHEET 323 12TH ST NW SHEET PUYALLUP, WA 98371 SHEET CONTACT: FRANKIE TOPASNA, (253) 841-8641 SHEET 3 OW SHEET SHEET SHEET PREPARED BY: SHEET SHEET 6.0W SHEET SHEET C6.3W SHEET CIVIL • STRUCTURAL • SURVEYING 4815 CENTER STREET. TACOMA, WA. 98409 (253) 474-9449 FAX (253) 474-0153 CONTACT: RICK HAND, SENIOR PROJECT MANAGER PREPARED FOR: **PROJECT INFORMATION:** SITE ADDRESS: PARCEL NO. **1** bcra ZONING: OWNER CONTACT: LAND USE: 2106 PACIFIC AVE, SUITE 300 SCOPE OF WORK: TACOMA, WA 98402 IMPERVIOUS SURFACE: CONTACT: CHRISTINE PHILLIPS, (253) 627-4367 ONLY WATER AND SEWER UTILITIES ARE BEING REVIEWED BY THE CITY OF PUYALLUP FOR THIS PLAN SET THE CITY OF PUYALLUP IS NOT REVIEWING COMPLIANCY FOR THE GENERAL NOTES AND KEY NOTES ON SHEETS C13.0W AND C14.0W



| | | | | · · · · · · · · · · · · · · · · · · · | 51 |
|---------------|--|-------------------|------------------------|--|--|
| T No. | TITLE – DESCRIPTION | DRAWING No. | SHEET No. | TITLE - DESCRIPTION | 5 |
| RAWING SET (P | IERCE COUNTY) | site utilities di | RAWING SET (CITY OF PU | IYALLUP) | $\langle $ |
| T 1 OF 27 | PORTABLE RELOCATION COVER SHEET | C10.0W | SHEET 14 OF 27 | SITE UTILITIES COVER SHEET | { |
| ET 2 OF 27 | PIERCE COUNTY GENERAL NOTES | C11.0W | SHEET 15 OF 27 | CITY OF PUYALLUP GENERAL NOTES | } |
| T 3 OF 27 | LEGEND AND ABBREVIATIONS | C11.1W | SHEET 16 OF 27 | CITY OF PUYALLUP GENERAL | 3 |
| T 4 OF 27 | TOPOGRAPHIC SURVEY | C11.2W | SHEET 17 OF 27 | NOTES CITY OF PUYALLUP GENERAL | } |
| T 5 OF 27 | OVERALL PROJECT DEMOLITION AND TESC PLAN | 011.21 | SHEET IT OF 27 | NOTES | Ś |
| T 6 OF 27 | PORTABLE RELOCATION DEMOLITION | C11.3W | SHEET 18 OF 27 | LEGEND AND ABBREVIATIONS | S |
| 1 0 UF 27 | AND TESC PLAN | C12.0W | SHEET 19 OF 27 | TOPOGRAPHIC SURVEY | Ш |
| T 7 OF 27 | OVERALL PROJECT SURFACING AND LAYOUT PLAN | C13.0W | SHEET 20 OF 27 | SITE UTILITIES DEMOLITION AND - TESC PLAN | UTILITIE |
| T 8 OF 27 | PORTABLE RELOCATION SURFACING AND LAYOUT PLAN | C14.0W | SHEET 21 OF 27 | SITE UTILITIES SURFACING AND | |
| T 9 OF 27 | PORTABLE RELOCATION GRADING AND DRAINAGE PLAN | C15.0W | SHEET 22 OF 27 | SITE UTILITIES WATER PLAN | N |
| T 10 OF 27 | PORTABLE RELOCATION DETAILS | C16.0W | SHEET 23 OF 27 | SITE UTILITIES SANITARY SEWER | (1) 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| T 11 OF 27 | PORTABLE RELOCATION DETAILS | C16.1W | SHEET 24 OF 27 | SITE UTILITIES SANITARY SEWER PROFILE 2 | SITE |
| ET 12 OF 27 | PORTABLE RELOCATION DETAILS | C17.0W | NOT USED | | < 1 |
| ET 13 OF 27 | PORTABLE RELOCATION DETAILS | C17.1W | SHEET 25 OF 27 | SITE UTILITIES DETAILS | loo |
| | | C17.2W | SHEET 26 OF 27 | - | |
| | | C17.3W | SHEET 27 OF 27 | SITE UTILITIES DETAILS |) <u>さ</u> |
| للللل | | تتتتب | مميميم | - TIIIIIIIIIII |) v |
| | | | | | DISTRIC |
| | | | | | |
| | | | | | |
| | | | | | |
| | N: | | | | |
| | 5715 MILWAUKEE AVE E, PUYALLUP, WA | A 98374 | | | ROJECT JYALLUP VALK 715 MILW |
| | 7705000171 (3.38 ACRES) | | | | |

5715 MILWAUKEE AVE E, PUYALLUP, WA 98374 7705000171 (3.38 ACRES) EC (EMPLOYMENT CENTER) PUYALLUP SCHOOL DISTRICT NO. 3 323 12TH ST NW PUYALLUP, WA 98371

HIGH SCHOOL 100-YEAR FLOODPLAIN: N/A - ZONE 'X' PER FEMA MAP PANEL NUMBER 53053C0600E

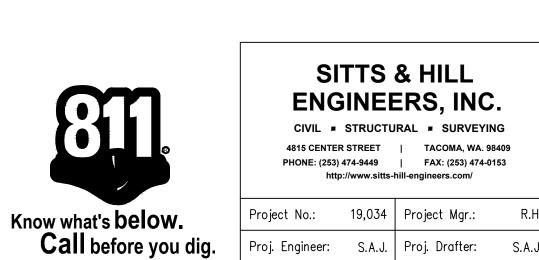
> INSTALLATION OF SITE UTILITIES FOR PORTABLE CLASSROOM CONNECTION TO PUBLIC SEWER AND WATER

PORTABLE BUILDING RELOCATION PROJECT ROOF 1,728 S.F. <u>180 S.F.</u> 1,908 S.F. NEW HARD SURFACE

SANITARY SEWER PROJECT (ALL SURFACES ARE REPLACED IN KIND)

ASPHALT CONCRETE LANDSCAPE/GRAVEL 6,346 S.F TOTAL 12,089 S.F







REVISIONS

1.19.2021

20160.00.00

BCRA NO.

DRAWN BY:

REVIEWED BY:

SITE UTILITIES

COVER SHEET

5-10-21 PERMIT SUBMITTA 6-14-21 PERMIT RESUBMITTA

6-25-21 CITY RESUBMITTA

7-23-21 CITY RESUBMITTAL

0-04-22 RECORD DRAW

6-23-21 BID SET

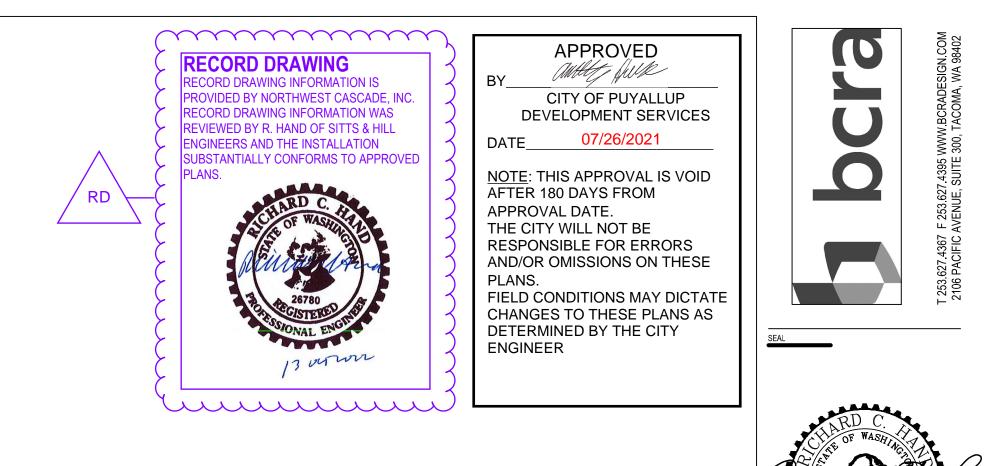


CITY OF PUYALLUP GENERAL NOTES

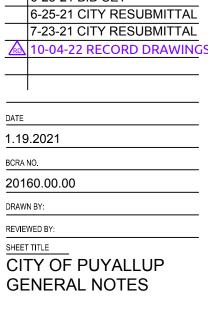
- 1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE APPROVED ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES AT (253-841-5568) TO SCHEDULE THE MEETING. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN SET OF APPROVED PLANS AT THE MEETING.
- 2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT THE CONTRACTOR SHALL OBTAIN A PUNCH LIST' PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
- 3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
- 4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- 5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE CITY PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- 6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- 7. ANY STRUCTURE AND/OR OBSTRUCTION THAT REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- 8. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE TRUE ELEVATIONS AND LOCATIONS OF HIDDEN UTILITIES. ALL VISIBLE ITEMS SHALL BE THE ENGINEER'S RESPONSIBILITY.
- 9. THE CONTRACTOR SHALL INSTALL, REPLACE, OR RELOCATE ALL SIGNS, AS SHOWN ON THE PLANS OR AS AFFECTED BY CONSTRUCTION, PER CITY STANDARDS.
- 10. POWER, STREET LIGHT, CABLE, AND TELEPHONE LINES SHALL BE IN A TRENCH LOCATED WITHIN A 10-FOOT UTILITY EASEMENT ADJACENT TO PUBLIC RIGHT-OF-WAY. RIGHT-OF-WAY CROSSINGS SHALL HAVE A MINIMUM HORIZONTAL SEPARATION FROM OTHER UTILITIES (SEWER, WATER, AND STORM) OF 5 FEET.
- 11. ALL CONSTRUCTION SURVEYING FOR EXTENSIONS OF PUBLIC FACILITIES SHALL BE DONE UNDER THE DIRECTION OF A WASHINGTON STATE LICENSED LAND SURVEYOR OR A WASHINGTON STATE LICENSED PROFESSIONAL CIVIL ENGINEER.
- 12. DURING CONSTRUCTION, ALL PUBLIC STREETS ADJACENT TO THIS PROJECT SHALL BE KEPT CLEAN OF ALL MATERIAL DEPOSITS RESULTING FROM ON-SITE CONSTRUCTION, AND EXISTING STRUCTURES SHALL BE PROTECTED AS DIRECTED BY THE CITY.
- 13. CERTIFIED RECORD DRAWINGS ARE REQUIRED PRIOR TO PROJECT ACCEPTANCE.
- 14. A NPDES STORMWATER GENERAL PERMIT MAY BE REQUIRED BY THE DEPARTMENT OF ECOLOGY FOR THIS PROJECT. FOR INFORMATION CONTACT THE DEPARTMENT OF ECOLOGY, SOUTHWEST REGION OFFICE AT (360)407-6300.
- 15. ANY DISTURBANCE OR DAMAGE TO CRITICAL AREAS AND ASSOCIATED BUFFERS, OR SIGNIFICANT TREES DESIGNATED FOR PRESERVATION AND PROTECTION SHALL BE MITIGATED IN ACCORDANCE WITH A MITIGATION PLAN REVIEWED AND APPROVED BY THE CITY'S PLANNING DIVISION. PREPARATION AND IMPLEMENTATION OF THE MITIGATION PLAN SHALL BE AT THE DEVELOPER'S EXPENSE.

CONSTRUCTION SEQUENCE

- 1. OBTAIN SITE DEVELOPMENT PERMIT FROM PIERCE COUNTY. SCHEDULE PRE-CONSTRUCTION MEETINGS WITH THE COUNTY INSPECTOR, OWNER, CONTRACTOR AND DESIGN TEAM. SUBMIT ALL SUBMITTALS TO ARCHITECT.
- 2. WHEN MORE THAN ONE CONTRACTOR IS ONSITE PERFORMING CONSTRUCTION ACTIVITIES, THE TWO CONTRACTORS SHALL COORDINATE WORK TO ENSURE NO CONFLICTS OCCUR BETWEEN THE TWO CONSTRUCTION WORK SITES.
- 3. CONTRACTOR TO MAINTAIN AT LEAST ONE LANE ACCESS TO SCHOOL SITE AT ALL TIMES.
- 4. CONTRACTOR TO MAINTAIN EMERGENCY VEHICLE ACCESS TO THE SCHOOL SITE AT ALL TIMES.
- 5. PROVIDE TESC MEASURES (EROSION CONTROL PLANS AND DETAIL SHEETS). COORDINATE WITH PROJECT WORK TIME PERIODS & PROJECT MILESTONE COMPLETION DATES.
- 6. CONTRACTOR SHALL KEEP EXISTING ONSITE SEWER SYSTEM OPERATIONAL UNTIL NEW GRAVITY SEWER IS INSTALLED AND CERTIFICATE OF OCCUPANCY HAS BEEN ISSUED.
- 7. OBTAIN APPROVED TRAFFIC CONTROL PLAN FROM PIERCE COUNTY.
- 8. PERFORM REQUIRED SITE DEMOLITION WORK.
- 9. PROVIDE TEMPORARY UTILITIES AND SERVICES NECESSARY FOR CONSTRUCTION ACTIVITIES.
- 10. CONTRACTOR TO POTHOLE EX UTILITIES AND SANITARY SEWER IN FRONT OF MAIN BUILDING PRIOR TO INSTALLATION OF NEW UTILITIES.
- 11. REPORT HORIZONTAL AND VERTICAL POSITIONS TO ENGINEER. ALLOW 3 BUSINESS DAYS TIME FOR ENGINEER DESIGN VERIFICATION PRIOR TO COMMENCING SANITARY SEWER WORK.
- 12. COMMENCE SANITARY SEWER AND CONSTRUCTION ACTIVITIES.
- 13. COORDINATE WORK WITH THE PORTABLE CONTRACTOR
- 14. COMPLETE SANITARY SEWER INSTALLATION
- 15. COMPLETE SURFACING RESTORATION.
- 16. CLEAN SEDIMENTS FROM EXISTING STORM DRAINAGE STRUCTURES AND PIPING IF AFFECTED. PROVIDE DOCUMENTATION CLEANING WAS PERFORMED BY A LICENSED/BONDED COMPANY.
- 17. FINAL SITE INSPECTIONS. SEE CONTRACT PLANS FOR MILESTONE INSPECTIONS REQUIRED BY OWNER AND PERMITTING AGENCY.
- 18. CERTIFICATE OF OCCUPANCY ISSUED.
- 19. DECOMMISSION EXISTING SEPTIC TANK SYSTEM IN ACCORDANCE TO PIERCE COUNTY HEALTH DEPARTMENT REQUIREMENTS.



| | PUYALLUP SCHOOL DISTRICT | WALKER HIGH SCHOOL SITE UTILITIES | 5715 MILWAUKEE AVE E | PUYALLUP, WA 98372 | | | |
|---|------------------------------|---|--------------------------------|-----------------------------|-------------------|------------------------|---------------|
| s | ONS | | | | | | - |
| | 6-14 6-23 6-25 7-23 | 0-21 P 4-21 P 3-21 B 5-21 C 3-21 C 04-22 | ERM ID SI ITY I ITY I | IIT R ET RESI RESI | ESU UBM UBM | BMIT ITTAL ITTAL | TAL - - |

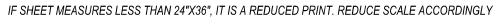






SITTS & HILL ENGINEERS, INC. CIVIL • STRUCTURAL • SURVEYING M15 CENTER STREET | TACOMA, WA. 98409 PHONE: (253) 474-9449 | FAX: (253) 474-0153 Http://www.sitts-hill-engineers.com/

Project No.:19,034Project Mgr.:R.H.Proj. Engineer:S.A.J.Proj. Drafter:S.A.J.



CITY OF PUYALLUP SANITARY SEWER NOTES:

- 1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
- 2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT. THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE SEWER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
- 4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- 5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE ENGINEERING SERVICES STAFF PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- 6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- 7. ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRE REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- 8. MINIMUM GRADE ON ALL 4 INCH RESIDENTIAL SIDE SEWERS SHALL BE 2 PERCENT AND 6 INCH COMMERCIAL SIDE SEWERS SHALL BE 1 PERCENT; MAXIMUM SHALL BE 8 PERCENT. ALL SIDE SEWERS SHALL BE 6 INCHES WITHIN CITY RIGHT-OF-WAY.
- 9. SIDE SEWERS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD NOS. 04.03.01, 04.03.02, 04.03.03 AND 04.03.04. SIDE SEWER INSTALLATION WORK SHALL BE DONE IN ACCORDANCE WITH THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT (WISHA).
- 10. ALL SEWER PIPE SHALL BE PVC, POLYPROPYLENE, OR DUCTILE IRON. PVC SEWER PIPE SHALL CONFORM TO ASTM D-3034, SDR35 FOR PIPE SIZES 15-INCH AND SMALLER AND ASTM F679 FOR PIPE SIZES 18- TO 27-INCH, DUCTILE IRON PIPE SHALL BE CLASS 51 OR GREATER, LINED WITH PROTECTO 401TM EPOXY LINING OR EQUIVALENT, UNLESS OTHERWISE NOTED. 12-INCH THROUGH 30-INCH POLYPROPYLENE PIPE (PP) SHALL BE DUAL WALLED, HAVE A SMOOTH INTERIOR AND EXTERIOR CORRUGATIONS AND MEET WSDOT 9-05.24(2). IT SHALL MEET OR EXCEED ASTM F2764. 36-INCH THROUGH 60-INCH PP PIPE SHALL BE TRIPLE WALLED AND MEET WSDOT 9-05.24(2). IT SHALL MEET OR EXCEED ASTM F2764. PP SHALL HAVE A MINIMUM PIPE STIFFNESS OF 46 PII WHEN TESTED IN ACCORDANCE WITH ASTM D2412. TESTING SHALL BE PER ASTM F1417. TRENCHING, BEDDING, AND BACKFILL SHALL BE IN ACCORDANCE WITH CITY STANDARD NO. 06.01.01. MINIMUM COVER ON PVC AND PP PIPE SHALL BE 3.0 FEET. MINIMUM COVER ON DUCTILE IRON PIPE SHALL BE 1.0 FOOT.
- 11. SANITARY SEWER MANHOLE FRAMES AND COVERS SHALL CONFORM TO CITY STANDARD NO. 06.01.02.
- 12. SANITARY SEWER MANHOLES SHALL CONFORM TO CITY STANDARD NOS. 04.01.01, 04.01.02, 04.01.03 AND 04.01.04. ALL MANHOLES SHALL BE CHANNELED FOR FUTURE LINES AS SPECIFIED ON THESE PLANS. MANHOLE STEPS AND LADDER SHALL CONFORM TO STANDARD NO. 06.01.03.
- 13. SANITARY SEWER PIPE AND SIDE SEWERS SHALL BE 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES WITH THE EXCEPTION OF SIDE SEWERS THAT PROVIDE SERVICE TO A SINGLE-FAMILY RESIDENCE. AT THE DISCRETION OF THE REVIEW ENGINEER, A LICENSED PROFESSIONAL ENGINEER WILL BE REQUIRED TO STAMP THE DESIGN TO ACCOUNT FOR DEPTH OR PROXIMITY TO FOUNDATION, STEEP SLOPES, OR OTHER FACTORS.
- 14. NO SIDE SEWERS SHALL BE CONNECTED TO ANY HOUSE OR BUILDING UNTIL ALL MANHOLES ARE ADJUSTED TO THE FINISHED GRADE OF THE COMPLETED ASPHALT ROADWAY AND THE ASPHALT PATCH AND SEAL AROUND THE RING ARE ACCEPTED.
- 15. FOR COMMERCIAL DEVELOPMENTS IN WHICH SOURCES OF GREASE AND/OR OILS MAY BE INTRODUCED TO THE CITY SANITARY SEWER SYSTEM, A CITY APPROVED GREASE INTERCEPTOR SHALL BE INSTALLED DOWNSTREAM FROM THE SOURCE.
- 16. ONCE SEWER AND ALL OTHER UTILITY CONSTRUCTION IS COMPLETED, ALL SANITARY SEWER MAINS AND SIDE SEWERS SHALL BE TESTED PER SECTION 406 OF THE CITY STANDARDS.

PLAN SET SANITARY SEWER NOTE REVISIONS NOTE 9: DETAILS 04.03.01 AND 04.03.03 ARE NOT APPLICABLE NOTE 12: DETAILS 04.01.02, 04.01.03 AND 04.01.04 ARE NOT APPLICABLE

CITY OF PUYALLUP SANITARY SEWER NOTES:

<u>SECTION 406 – TESTING REQUIREMENTS</u>

GRAVITY SANITARY SEWER CLEANING AND TESTING REQUIREMENTS SHALL BE AS OUTLINED IN WSDOT SECTION 7-17.3(2). SANITARY SEWER CLEANING AND TESTING SHALL BE COMPLETED TO THE SATISFACTION OF THE OFFICE OF THE CITY ENGINEER AND/OR PUBLIC WORKS DEPARTMENT PRIOR TO FINAL ACCEPTANCE. AFTER COMPLETION OF ALL PROJECT UTILITY WORK (SEWER, WATER, STORM, ETC.) AND ASSOCIATED UTILITY TRENCH BACKFILL AND COMPACTION. SEWER LINES SHALL BE CLEANED AND TESTED BY THE CONTRACTOR PRIOR TO FINAL PROJECT ACCEPTANCE, AS OUTLINED IN SECTION 406.1 THROUGH 406.4. AT THE END OF THE MAINTENANCE AND WARRANTY PERIOD, THE CITY WILL PERFORM A FINAL CCTV INSPECTION PER 406.4 TO VERIFY THAT THE WORK PERFORMED CONFORMS TO CITY STANDARDS PRIOR TO BOND RELEASE.

406.1 CLEANING

PHYSICAL CONNECTION TO THE EXISTING CITY SEWER SYSTEM SHALL NOT BE ALLOWED UNTIL ALL PIPES HAVE BEEN THOROUGHLY CLEANED BY JETTING AND/OR PIGGING TO REMOVE ANYSOLIDS OR CONSTRUCTION DEBRIS THAT MAY HAVE ENTERED THE PIPE.

THE CONTRACTOR SHALL ARRANGE TO HAVE THE WATER ACCUMULATED DURING CONSTRUCTION AND SANITARY SYSTEM CLEANING OPERATIONS REMOVED FROM THE SEWER SYSTEM BY A VACTOR TRUCK

WATER FROM THE NEW SEWER EXTENSION SHALL NOT BE PERMITTED TO ENTER THE EXISTING CITY SYSTEM UNTIL FINAL PROJECT APPROVAL. SEDIMENT OR DEBRIS INTRODUCED TO EXISTING CITY SEWERS AS A RESULT OF ANY CONSTRUCTION ACTIVITY SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR IN CONFORMANCE WITH WSDOT SECTION 7-17.

406.2 DEFLECTION TESTING

GRAVITY SANITARY SEWERS SHALL BE TESTED FOR DEFLECTION PRIOR TO VISUAL INSPECTION. THERMOPLASTIC PIPE SHALL BE TESTED FOR DEFLECTION NOT LESS THAN 30 DAYS AFTER THE TRENCH BACKFILL AND COMPACTION HAS BEEN COMPLETED. DEFLECTION TESTING SHALL BE CONDUCTED BY PULLING A MANDREL (RIGID OR ADJUSTABLE) WITH A DIAMETER NOT LESS THAN 95 PERCENT OF THE NORMAL DIAMETER OF THE PIPE BEING TESTED. MANDREL TESTING SHALL BE CONDUCTED IN CONFORMANCE WITH WSDOT SECTION 7-17.3(2)G.

406.3 LEAKAGE TESTING

ALL NEW GRAVITY SANITARY SEWER MAINS AND THE RIGHT-OF-WAY LATERALS SHALL BE SUBJECT TO A LOW-PRESSURE AIR TEST PER WSDOT SECTION 7-17.3(2)F. LOW PRESSURE AIR TESTING SHALL BE CONDUCTED AFTER BACKFILLING IS COMPLETED AND THE BACKFILL MATERIAL HAS BEEN COMPACTED IN CONFORMANCE WITH THE APPROVED PLANS. CONFORMING COMPACTION SHALL BE VERIFIED BY NUCLEAR GAUGE TESTING AND/OR PROOF ROLLING AT THE DISCRETION OF ENGINEERING STAFF. THE CITY ENGINEER OR DESIGNEE SHALL OBSERVE ALL TESTING TO VERIFY SATISFACTORY COMPLETION. THE CITY ENGINEER OR DESIGNEE MAY REQUIRE THAT AIR TEST PRESSURE BE MAINTAINED AT 4.0 PSIG WITH NO DROP FOR 15 MINUTES FOR A PASSING LEAKAGE TEST WHERE GROUNDWATER PRESSURE IS DEEMED NEGLIGIBLE, OR AT THE CITY ENGINEER'S OR DESIGNEE'S DISCRETION.

THE CONTRACTOR SHALL FURNISH ALL NECESSARY EQUIPMENT AND PERSONNEL FOR CONDUCTING THE PRESSURE TEST. THE CONTRACTOR SHALL PROVIDE CERTIFICATION FROM A CERTIFIED/ACCREDITED LABORATORY THAT TESTING EQUIPMENT IS ACCURATE. ALL EQUIPMENT AND PERSONNEL SHALL BE SUBJECT TO APPROVAL BY THE CITY ENGINEER OR DESIGNEE.

IF ANY PORTION OF THE SANITARY SYSTEM FAILS TO MEET THE TESTING REQUIREMENTS, THE CONTRACTOR SHALL DETERMINE, AT THEIR OWN EXPENSE, THE SOURCE OF LEAKAGE AND SHALL REPAIR OR REPLACE ALL DEFECTIVE MATERIALS OR WORKMANSHIP. THE COMPLETED PIPE INSTALLATION SHALL MEET THE MINIMUM TESTING REQUIREMENTS BEFORE BEING CONSIDERED ACCEPTABLE.

406.4 TELEVISION INSPECTION

ALL NEW GRAVITY SANITARY SEWER EXTENSIONS SHALL BE VISUALLY INSPECTED IN CONFORMANCE WITH WSDOT SECTION 7-17.3(2)H, FOLLOWING SATISFACTORY TRENCH COMPACTION TESTING, FLUSHING, LOW PRESSURE AIR TESTING, AND DEFLECTION TESTING. ALL MANHOLES SHALL BE CHANNELED AND GRADE RINGS SET IN PLACE PRIOR TO SEWER VIDEO INSPECTION.

THE REMOTE CAMERA USED IN SEWER VISUAL INSPECTION SHALL BE ONE SPECIFICALLY DESIGNED FOR SUCH AN APPLICATION, WITH THE ABILITY TO ROTATE THE CAMERA 180 DEGREES AND LIGHTING SUITABLE TO ALLOW A CLEAR PICTURE OF THE ENTIRE PERIPHERY OF THE PIPE. THE CAMERA SHALL PROCEED THROUGH THE PIPE AT A SUFFICIENTLY SLOW VELOCITY TO ALLOW ADEQUATE INSPECTION OF ALL PIPE JOINTS. ALL SEWER LATERAL FITTINGS AND JOINTS AND SUSPECT PIPE JOINTS SHALL BE CLOSELY INSPECTED BY ROTATING THE CAMERA AS NEEDED TO PROVIDE A CLEAR VIEW.

THE WITHIN THE SEWER PIPE.

TELEVISION INSPECTION ACCEPTANCE CRITERIA:

ANY PONDING WITHIN A PIPE SHALL BE LESS THAN ONE-HALF INCH (1/2") IN DEPTH. 2. THE TOTAL ACCUMULATED PONDING LENGTH, REGARDLESS OF DEPTH, FROM MANHOLE TO MANHOLE SHALL BE LESS THAN TEN (10) PERCENT OF THE TOTAL LENGTH FROM MANHOLE TO MANHOLE. ANY SEWER PIPE THAT EXCEEDS EITHER OF THE ABOVE ACCEPTANCE CRITERIA WILL BE REJECTED AND REQUIRE REPAIR AND/OR REPLACEMENT BY THE CONTRACTOR.

THE CONTRACTOR SHALL BEAR ALL COSTS FOR THE CORRECTION OF ANY DEFICIENCIES FOUND DURING TV INSPECTION, INCLUDING THE COSTS FOR ADDITIONAL TV INSPECTION AND LEAKAGE TESTING NEEDED TO VERIFY THE DEFICIENCIES WERE CORRECTED. ALL COMPONENTS OF THE VIDEO AND RECORDING EQUIPMENT SHALL BE SUFFICIENT TO PROVIDE PICTURE QUALITY TO THE SATISFACTION OF THE CITY ENGINEER OR DESIGNEE.

UPON COMPLETION OF THE VIDEO INSPECTION, THE DIGITAL VIDEO, OF COMMON FORMAT, AND WRITTEN INSPECTION REPORT SHALL BE SUBMITTED TO THE CITY FOR REVIEW. AT A MINIMUM, THE INSPECTION REPORT SHALL CONTAIN THE FOLLOWING INFORMATION:

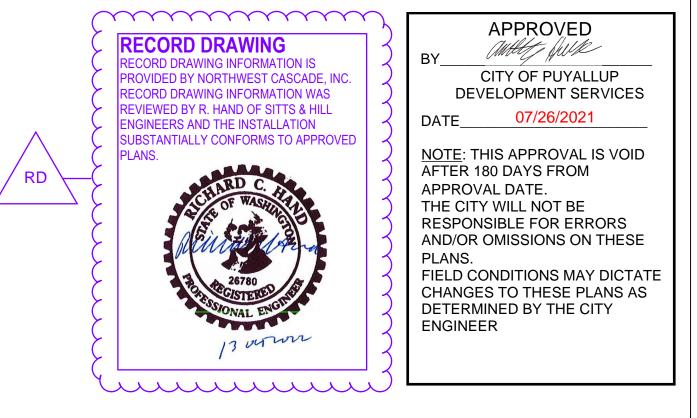
• SIZE, LENGTH, AND MATERIAL TYPE OF THE SEWER MAIN. • LOCATION OF ALL LATERAL CONNECTIONS.

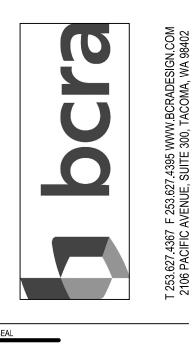
SECTION 406: TESTING REQUIREMENTS

THE CONTRACTOR SHALL INTRODUCE WATER TO THE NEW SEWER SYSTEM IMMEDIATELY PRIOR TO

VISUAL INSPECTION BY ADDING WATER TO THE UPSTREAM MANHOLE UNTIL WATER IS SEEN FLOWING IN THE LOWEST MANHOLE. VIDEO INSPECTION OF THE LINE SHALL BEGIN WHEN FLOW IN THE LOWEST MANHOLE HAS STOPPED. A 1-INCH SEWER BALL SHALL BE ATTACHED TO THE FRONT OF THE CAMERA TO PROVIDE A BASIS FOR ESTIMATING THE DEPTH OF THE PONDING

• ESTIMATED DEPTH AND LOCATION OF ALL PONDING OVER 1/4 INCH IN DEPTH • MANHOLE NUMBERS THAT CORRESPOND TO THE APPROVED PLANS • STREET NAME AND/OR LOCATION OF SEWER MAIN











1 1 V V





Proj. Engineer: S.A.J. Proj. Drafter: S.A.J.

Project No.: 19,034 | Project Mgr.:

CITY OF PUYALLUP WATER NOTES:

- 1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THEMEETING.
- 2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT. THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS"), OR AS DIRECTED BY FRUITLAND MUTUAL WATER COMPANY (FMWC), VALLEY WATER (VW), OR TACOMA CITY WATER (TCW) IS THE PURVEYOR.
- 4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- 5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER. THE ENGINEERING SERVICES STAFF. AND THE FMWC. VW OR TCW WHEN SERVED BY THAT PURVEYOR, PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- 6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- 7. ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- 8. BACTERIOLOGICAL (COLIFORM AND IRON BACTERIA) TEST SAMPLES WILL BE TAKEN BY THE CITY (OR FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR) AND PAID FOR BY THE CONTRACTOR, EXCEPT FOR CAPITAL IMPROVEMENT PROJECTS (CIP) WHICH SHALL BE PAID FOR BY THE CITY.
- 9. WATER MAINS SHALL HAVE A MINIMUM COVER OF 36 INCHES FROM PAVED FINAL GRADE IN IMPROVED RIGHT-OF-WAY AND IMPROVED EASEMENTS, AND A MINIMUM OF 48 INCHES IN UNIMPROVED RIGHT-OFWAY AND UNIMPROVED EASEMENTS.
- 10. PIPE FOR WATER MAINS SHALL BE DUCTILE IRON CONFORMING TO SECTION 7-09 OF THE STANDARD SPECIFICATIONS, CLASS 52 WITH TYTON OR APPROVED EQUAL JOINTS. PIPE SHALL BE CEMENT LINED IN ACCORDANCE WITH A.S.A. SPECIFICATION A 21.4-1964.
- 11. CONNECTIONS TO EXISTING WATER MAINS TYPICALLY SHALL BE WET TAPS THROUGH A TAPPING TEE AND TAPPING VALVE AND SHALL BE MADE BY A CITY APPROVED CONTRACTOR. THE TAPPING SLEEVE SHALL BE ROMAC SST ALL STAINLESS STEEL TAPPING SLEEVE OR APPROVED EQUAL. A TWO-PIECE EPOXY COATED OR DUCTILE IRON TAPPING SLEEVE MAY BE USED ON DUCTILE IRON PIPE, WHEN THE TAP IS SMALLER THAN THE WATER MAIN SIZE I.E. 6-INCH TAP ON 8-INCH PIPE. THE CITY (OR FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR) SHALL APPROVE THE TIME AND LOCATION FOR THESE CONNECTIONS.
- 12. ALL WATER MAINS AND APPURTENANCES SHALL BE HYDROSTATICALLY TESTED AT 200 PSI IN ACCORDANCE WITH STANDARD SPECIFICATION 7-09.3(23). PRESSURE TESTING SHALL NOT BE PERFORMED UNTIL SATISFACTORY PURITY SAMPLES HAVE BEEN RECEIVED, EXCEPT WHEN NEW WATER MAINS ARE INSTALLED INDEPENDENTLY FROM THE WATER SYSTEM PIPING.
- 13. FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD DETAIL 03.05.01 AND AS DIRECTED BY THE CITY OF PUYALLUP FIRE CODE OFFICIAL.
- 14. VALVE MARKER POSTS SHALL BE INSTALLED WHERE VALVE BOXES ARE HIDDEN FROM VIEW OR IN UNPAVED AREAS THE INSTALLATION SHALL BE IN ACCORDANCE WITH CITY STANDARD DETAIL 03.01.02.
- 15. RESILIENT SEATED WEDGE GATE VALVES SHALL BE USED FOR 10-INCH MAINS AND SMALLER. BUTTERFLY VALVES SHALL BE USED FOR MAINS GREATER THAN 10 INCHES.
- 16. PIPE FITTING FOR WATER MAINS SHALL BE DUCTILE IRON AND SHALL BE MECHANICAL JOINT CONFORMING TO AWWA SPECIFICATION C111-72.
- 17. WATER MAIN PIPE AND SERVICE CONNECTIONS SHALL BE A MINIMUM OF 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.
- 18. WHERE A WATER MAIN CROSSES THE NORTHWEST GAS PIPELINE, THE WATER LINE SHALL BE CASED WITH PVC PIPE A MINIMUM OF 10 FEET BEYOND EACH SIDE OF THE GAS LINE EASEMENT. CONTACT WILLIAMS NORTHWEST PIPELINE BEFORE THE CROSSING IS MADE.
- 19. TRENCHING, BEDDING, AND BACKFILL FOR WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD DETAIL 06.01.01.
- 20. ALL COMMERCIAL AND INDUSTRIAL DEVELOPMENTS, IRRIGATION SYSTEMS, AND MULTI-FAMILY WATER SERVICE CONNECTIONS SHALL BE PROTECTED BY A DOUBLE CHECK VALVE ASSEMBLY OR A REDUCED PRESSURE BACKFLOW ASSEMBLY AS DIRECTED BY THE CITY (OR FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR) CONFORMING TO CITY STANDARD DETAILS 03.04.01, 03.04.02, AND 03.04.03.
- 21. ANY LEAD JOINT FITTING DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH A MECHANICAL JOINT FITTING AT THE CONTRACTOR'S EXPENSE.
- 22. WHEN HYDRAULIC FIRE FLOW MODELING IS REQUIRED FOR A PROJECT, THE CITY WILL ISSUE A PERMIT. THE HYDRAULIC MODELING CRITERIA IS BASED ON THE PROJECTED 2030 WATER DEMAND, WHILE MAINTAINING A MINIMUM SYSTEM PRESSURE OF 20 POUNDS PER SQUARE INCH AND A MAXIMUM VELOCITY OF 10 FEET PER SECOND.
- 23. WHEN USING A FIRE HYDRANT FOR NON-FIREFIGHTING PURPOSES, A CITY HYDRANT METER MUST BE USED. COORDINATE THE ACQUISITION OF THE HYDRANT METER WITH THE CITY'S UTILITY BILLING DIVISION AT PUYALLUP CITY HALL. A CITY APPROVED BACKFLOW PROTECTION ASSEMBLY SHALL BE INSTALLED BY THE PERSON REQUESTING USE OF A FIRE HYDRANT. THE ASSEMBLY SHALL BE ACCOMPANIED BY A CURRENT BACKFLOW ASSEMBLY TEST REPORT. THE TEST REPORT SHALL BE AVAILABLE AT THE SITE FOR THE DURATION OF THE HYDRANT USE.
- 24. SHOULD A BREAK OCCUR ON ANY CITY WATER MAIN, THE CONTRACTOR SHALL FOLLOW THE CITY'S ADOPTED "WATER MAIN BREAK PROCEDURE" ISSUED TO THEM AT THE PRE-CONSTRUCTION MEETING AND NOTIFY THOSE CONNECTED TO THE SYSTEM IN THE IMPACTED AREA AS OUTLINED IN THE PROCEDURE.
- 25. WATER MAIN REPAIRS (REFERENCES: AWWA C651-14 AND WSDOT STANDARD SPECIFICATION SECTION 7-09)

(NOTE: A PLANNED WATER MAIN REPAIR SHALL BE APPROVED BY THE CITY INSPECTOR AND/OR WATER DIVISION SUPERVISOR PRIOR TO COMMENCING WORK.)

CITY OF PUYALLUP WATER NOTES:

REPAIR WITHOUT DEPRESSURIZATION - SMALL LEAKS SHALL BE REPAIRED USING REPAIR 25.1 BANDS WHILE MAINTAINING POSITIVE PRESSURE IN THE WATER MAIN. VALVES SURROUNDING THE LEAK WILL BE PARTIALLY SHUT BY THE CITY WATER DEPARTMENT TO REDUCE THE FLOW AND PRESSURE TO THE AREA. BLOWOFFS AND HYDRANTS IN THE REDUCED PRESSURE AREA MAY BE OPENED AS NEEDED TO FURTHER REDUCE THE PRESSURE. THE WATER MAIN TRENCH SHALL BE OVER-EXCAVATED TO ALLOW WATER IN THE TRENCH TO BE PUMPED OUT AND MAINTAINED BELOW THE LEVEL OF THE WATER MAIN. THE REPAIR SHALL BE COMPLETED WITH THE WATER MAIN PRESSURE REMAINING POSITIVE. AFTER THE REPAIR IS MADE, THE SYSTEM SHALL BE FULLY PRESSURIZED AND A VISUAL LEAK INSPECTION WILL BE COMPLETED. THE WATER MAIN IN THE AFFECTED AREA SHALL BE FLUSHED TO ACHIEVE THREE PIPE VOLUMES PULLED FROM THE PIPE (DISTANCE MEASURED FROM VALVE OPENED FOR FLUSHING TO THE EXIT HYDRANT OR BLOWOFF). REPAIR/CUT-IN WITH DEPRESSURIZATION - TRENCH SHALL BE OVER EXCAVATED AND 25.2 DEWATERED BELOW THE WATER MAIN. FLUSH WATER FROM PIPE FROM EACH DIRECTION UNTIL IT RUNS CLEAR. IMMEDIATELY PRIOR TO INSTALLATION OF A NEW PIPE SECTION FOR REPAIR OR CUT IN TEE, ALL NEW FITTINGS AND PIPE SPOOLS SHALL BE SWABBED WITH A FIVE PERCENT (5%) CHLORINE SOLUTION (MINIMUM). THE INTERIOR OF THE EXISTING PIPE SHALL BE SWABBED WITH A FIVE PERCENT (5%) CHLORINE SOLUTION AT LEAST 6 FEET IN EACH DIRECTION FROM EXPOSED CUT ENDS. THE WATER MAIN IN THE AFFECTED AREA SHALL BE FLUSHED TO ACHIEVE THREE PIPE VOLUMES PULLED FROM THE PIPE (DISTANCE MEASURED FROM THE VALVE OPENED FOR FLUSHING TO THE EXIT HYDRANT OR BLOWOFF). CUSTOMERS SHALL BE NOTIFIED AFTER THE WATER MAIN IS FLUSHED AND REPAIRS HAVE BEEN COMPLETED, AS OUTLINED IN THE "WATER MAIN BREAK PROCEDURE." 26 NEW WATER MAIN INSTALLATION: 26.1 EACH NEW WATER MAIN SECTION SHALL BE DELIVERED, STACKED AND STORED ONSITE WITH ENDS PLUGGED. THE PLUGS SHALL REMAIN IN THE PIPE UNTIL EACH PARTICULAR SECTION IS INSTALLED. NATIONAL SANITATION FOUNDATION (NSF) APPROVED SIXTY-FIVE PERCENT (65%) CALCIUM HYPOCHLORITE SHALL BE ADDED TO THE UPSTREAM END OF EACH PIPE SECTION, AND AT EACH HYDRANT TEE IN THE AMOUNT GIVEN IN THE TABLE BELOW (OR PER APPROVED MANUFACTURER SPECIFICATIONS). THE MINIMUM AMOUNT OF CALCIUM HYPOCHLORITE ADDED SHOULD BE SUFFICIENT TO ACHIEVE A 50 MG/L CONCENTRATION WITHIN THE IMPACTED AREA.

PIPE DIAMETER (INCHES) 4 6 8 12 16 THE EXISTING WATER SYSTEM.

STANDARDS ARE MET.

A NEW WATER MAIN FOR MORE THAN 5 DAYS. 26.4 PRESSURE TESTING INCLUDES TESTING AGAINST NEW VALVES AND HYDRANTS. EACH VALVE SHALL BE TESTED BY CLOSING EACH IN TURN AND REDUCING THE PRESSURE BEYOND THE VALVE. THE PRESSURE ON THE BACK SIDE OF THE VALVE SHOULD NOT BE ELIMINATED. CARE MUST BE TAKEN THAT, DURING THIS PROCESS, POSITIVE PRESSURE REMAINS THROUGHOUT THE SYSTEM BEING TESTED AT ALL TIMES. ALL HYDRANT FOOT VALVES SHALL BE OPEN DURING PRESSURE TESTING SO THAT THE PRESSURE TEST IS AGAINST THE HYDRANT VALVE. PRESSURE TESTING WILL NOT BE ALLOWED AGAINST ANY EXISTING VALVES.

26.5 AFTER SUCCESSFUL PRESSURE TESTING, THE WATER MAIN SHALL BE THOROUGHLY FLUSHED TO REMOVE ALL "SUPER" CHLORINATED WATER FROM THE NEW WATER MAIN. FLUSHING OF NEW OR EXTENDED WATER MAINS SHALL BE CONDUCTED PER WSDOT SPECIFICATION 7-09.3(24)A WITH A MINIMUM VELOCITY DEVELOPED WITHIN THE PIPE WHILE FLUSHING OF 2.5 FEET PER SECOND (FPS). ALL FLUSHED WATER SHALL BE DECHLORINATED PRIOR TO DISPOSAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL CHLORINATED WATER FLUSHED FROM MAINS. THE CITY SHALL APPROVE THE DISPOSAL METHOD PRIOR TO **IMPLEMENTATION IN THE FIELD.** THE CONTRACTOR SHALL UTILIZE ONSITE DISPOSAL METHODS IF AVAILABLE. DISPOSAL OF FLUSH WATER TO THE SANITARY SEWER SYSTEM SHALL NOT BE ALLOWED WITHOUT WRITTEN PERMISSION FROM THE WATER POLLUTION CONTROL PLANT (WPCP) SUPERVISOR. ANY PLANNED DISCHARGE TO A STORMWATER SYSTEM SHALL BE DECHLORINATED TO A CONCENTRATION OF 0.1 PPM OR LESS, PH ADJUSTED (IF NECESSARY) TO BE BETWEEN 6.5 AND 8.5, AND VOLUMETRICALLY AND VELOCITY CONTROLLED TO PREVENT ANY RESUSPENSION OF SEDIMENTS. THE CITY WILL REQUIRE INDEPENDENT TESTING THROUGHOUT THE WATER DISCHARGE PROCESS TO ENSURE COMPLIANCE OF THESE

26.6 SAMPLES FOR BACTERIOLOGICAL ANALYSIS SHALL BE COLLECTED AFTER FLUSHING AND AGAIN 24 HOURS AFTER THE FIRST SET OF SAMPLES.

26.7 ALL CLOSURE/FINAL CONNECTION FITTINGS SHALL BE SPRAYED CLEAN AND THEN SWABBED WITH A FIVE PERCENT (5%) CHLORINE SOLUTION IMMEDIATELY PRIOR TO INSTALLATION PER AWWA STANDARD C651. ADDITIONAL SAMPLES FOR BACTERIOLOGICAL ANALYSIS SHALL BE COLLECTED FROM THE IMMEDIATE VICINITY OF THE NEW OR REPLACED WATER MAIN AND ANALYZED AFTER THE FINAL CONNECTIONS ARE MADE. IF NECESSARY, ADDITIONAL FLUSHING SHALL BE CONDUCTED AND ADDITIONAL SAMPLES SHALL BE COLLECTED UNTIL SATISFACTORY RESULTS ARE OBTAINED.

(CONTINUED)

65% CALCIUM HYPOCHLORITE ADDITION PER PIPE SECTION

| | PIPE VOLUME | 5–GRAM TABLETS | HYPOCH GRAN | MAXIMUM | |
|--|-------------------------|---------------------|---------------------------|------------------------------|--------------------|
| | PER 18 FEET (GAL) | PER PIPE SECTION | OUNCES PER 500 FEET | TEASPOO NS PER 18 FEET | FILL RATE (GPM) |
| | 35 | 1 | 1.70 | 0.20 | 40 |
| | 53 | 1 | 3.80 | 0.10 | 90 |
| | 70 | 2 | 6.70 | 0.70 | 150 |
| | 106 | 4 | 15.10 | 1.40 | 350 |
| | 141 | 6 | 27 | 2.50 | 600 |
| | | | | | |

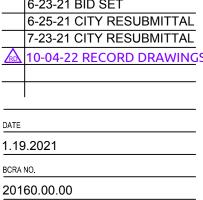
26.2 NEW WATER MAINS SHALL BE FILLED USING AN APPROVED BACKFLOW PREVENTION ASSEMBLY. THE WATER MAIN SHALL BE FILLED FROM THE LOWER ELEVATION END SO THAT AS THE WATER MAIN IS FILLED, THE CHORINE IS CONTACTED, DISSOLVED AND SPREAD RELATIVELY UNIFORM THROUGH THE LENGTH OF THE NEW WATER MAIN. THE FILL RATE SHALL BE MINIMIZED SO THAT THE VELOCITY OF THE WATER IS LESS THAN 1 FT/SEC (SEE TABLE ABOVE). SUCCESSFUL PRESSURE TEST AND BACTERIOLOGICAL TESTS SHALL BE COMPLETED AND PROVIDED TO THE CITY PRIOR TO ANY NEW MATER MAIN CONNECTION TO

26.3 THE CHLORINATED WATER WILL BE ALLOWED TO REMAIN IN CONTACT WITH THE NEW WATER MAIN SYSTEM FOR 24 TO 72 HOURS. AFTER 24 HOURS, WATER MAY BE ADDED TO THE WATER MAIN FOR THE PURPOSES OF PRESSURE TESTING. THE WATER IN THE MAIN USED FOR PRESSURE TESTING MUST REMAIN IN THE WATER MAIN UNTIL PRESSURE TEST IS COMPLETED. IF NECESSARY, LIQUID CHLORINE SHALL BE INJECTED INTO THE WATER MAIN WITH FILL WATER TO MAINTAIN A CONCENTRATION IN THE WATER MAIN ABOVE 50 MG/L. UNDER NO CIRCUMSTANCE SHALL "SUPER" CHLORINATED WATER BE ALLOWED TO SIT WITHIN









| 1.19.2021 |
|-------------|
| BCRA NO. |
| 20160.00.00 |
| 22444 |

REVIEWED BY SHEET TITLE

CITY OF PUYALLUP GENERAL NOTES







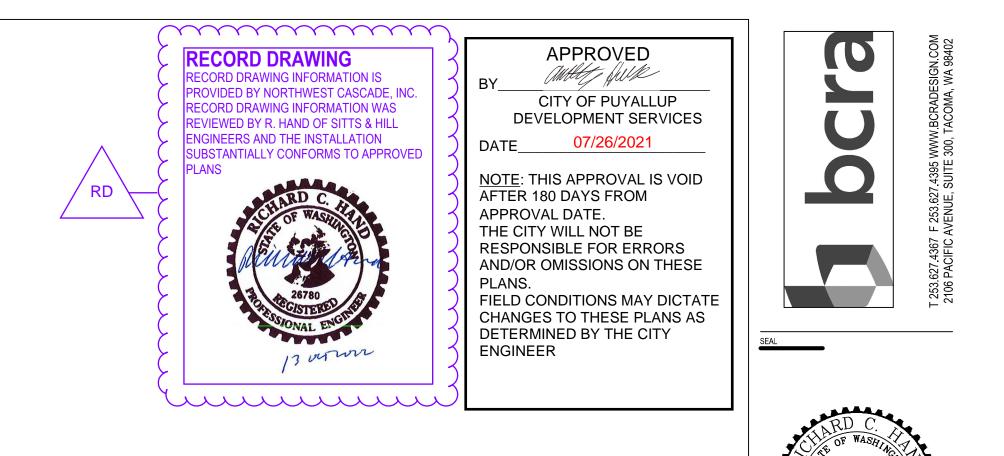
| Project No.: | 19,034 | Project Mgr.: | R.H. |
|-----------------|--------|----------------|--------|
| Proj. Engineer: | S.A.J. | Proj. Drafter: | S.A.J. |

| ACP | AL ABBREVIATIONS ASBESTOS CEMENT PIPE | N | NORTH | LEGENI EXISTING FEA |
|---------------------|--|--------------------|--|--|
| ABND ADA | ABANDON AMERICAN DISABILITIES ACT | NE NC | NORTHEAST NORMALLY CLOSED | |
| Т | ALTERNATE | NTS | NOT TO SCALE | |
| STM | AMERICAN SOCIETY FOR TESTING MATERIAL AND | N.I.C. NRO | NOT IN CONTRACT NATIVE RECESSIONAL OUTWASH | |
| PROX CH'L | APPROXIMATE ARCHITECTURAL | NW | NORTHWEST | |
| PH | ASPHALT | 0.C. | ON CENTER | - |
| ;) | ASPHALTIC CONCRETE AT | OHP OSHA | OVERHEAD POWER OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION | |
| IX 'G | AUXILIARY AVERAGE | OT | OPEN TRENCH | |
| S | HDPE STORM PIPING TRADE NAME | P | PANEL, POLE, POWER | |
| | BOTTOM OF CURB | % PP | PERCENT POWER POLE | |
| M. T | BENCH MARK BETWEEN | PAV PCC | PAVEMENT PORTLAND CEMENT CONCRETE | |
| TUM | BITUMINOUS | PCF | POUND PER CUBIC FOOT | |
| TC V | BOTTOM OF STRUCTURE BOTTOM WALL | PT P.C. | POINT POINT OF CURVATURE | |
| D | BEGINNING POINT | P.C.R. P.C.V.C. | POINT OF CURB RETURN POINT OF CURVATURE – VERTICAL CURVE | |
|) | CALCULATED CATCH BASIN | P.T.V.C. | POINT OF TANGENCY – VERTICAL CURVE | |
| B EM | CEMENT | P.I. P.I.V. | POINT OF INTERSECTION POST INDICATOR VALVE | |
| IP .I.P. | CAST IRON PIPE CAST IN PLACE | P.I.V.C. P.O.C. | POINT OF INTERSECTION FOR VERTICAL CURVE POINT ON CURVE | |
| J _ | CONSTRUCTION JOINT CENTERLINE | P.R.C. | POINT OF REVERSE CURVE | |
| <i>I</i> P | CORRUGATED METAL PIPE | P.T. PREFAB | POINT OF TANGENCY PREFABRICATED | |
| UN D | CONCRETE MASONRY UNIT CLEANOUT | PROJ | PROJECT | |
| ONC OND | CONCRETE CONDUIT | PSF PSI | POUND PER SQUARE FOOT POUND PER SQUARE INCH | |
| ONST | CONSTRUCTION | PVC PVMT | POLYVINYL CHLORIDE PAVEMENT | |
| ONT ONTR | CONTINUOUS CONTRACTOR | PWR | POWER | |
| C | CONCRETE PIPE | R | RADIUS OR RECORD | |
| PEP .R. | CORRUGATED POLYETHYLENE PIPE CRUSHED ROCK | R | RIGHT | |
| STC J.FT. | CRUSHED SURFACE TOP COURSE CUBIC FOOT | RD RP | ROOF DRAIN OR RECORD DRAWINGS RADIUS POINT | |
| U.YD. | CUBIC YARD | RCP REQD | REINFORCED CONCRETE PIPE REQUIRED | |
| | DRAIN (STORM DRAIN) | REV | REVISION/REVISED | |
| IA OR Ø | DEGREE OF CURVATURE DIAMETER | RGS REF | RIGID GALVANIZED STEEL REFERENCE | |
| IM IP | DIMENSION DUCTILE IRON PIPE | R/W | RIGHT OF WAY | |
| Ν | DOWN | S SC | SOUTH OR SLOPE SEGMENTAL CONCRETE | |
| .P. R | DISABILITY PARKING PIPE DIMENSION RATIO | SCH | SCHEDULE | |
| S WG | Downspout Drawing | SD SDCO | STORM DRAIN STORM DRAIN CLEANOUT | |
| WGS | DRAWINGS | SDMH SE | STORM DRAIN MANHOLE SOUTHEAST | |
| WV | DRAIN, WASTE AND VENT | SEC. SHT | SECTION SHEET | |
| В | EAST EXPLORATORY BORING | SPEC | SPECIFICATION(S) | SD SD SS SS |
| LEC | ELECTRIC/ELECTRICAL | SQ SF | SQUARE SQUARE FOOT/FEET | % % % % % |
| IL OR ELEV P | ELEVATION EDGE PAVEMENT | SI SIM. | SQUARE INCH/INCHES SIMILAR | ——— GAS ——— GAS —— |
| TM Q | ELAPSED TIME METER EQUAL | SS | SANITARY SEWER | |
| QUIV | EQUIVALENT | SSCO SSFM | SANITARY SEWER CLEANOUT SANITARY SEWER FORCEMAIN | |
| X XIST. | EXISTING EXISTING | SSMH | SANITARY SEWER MANHOLE | |
| XJ NGR | EXPANSION JOINT ENGINEER | STA STM | STATION STEAM | |
| ST | ESTIMATED | STL ST | STEEL STREET | |
| D | FOOTING DRAIN | STR | STRUCTURAL | SD SD SD SD |
| F G | FINISH FLOOR ELEVATION FINISH GRADE | STD SW | STANDARD SOUTHWEST | |
| м IN | FORCE MAIN FINISHED | SY/SQ. YD. | SQUARE YARD/YARDS | |
| IPT | FEMALE IRON PIPE THREAD | TAN TC | TANGENT TOP OF CURB | |
| T TG | FOOT (FEET) FOOTING | TEL | TELEPHONE | |
| Ή L | FIRE HYDRANT FLOWLINE | TEMP T.E. | TEMPORARY TOP ELEVATION | |
| L. | GAS | THRU T.O.C. | THROUGH TOP OF CONCRETE | |
| | GASKET | T.C. | TOP OF CURB | |
| ALV S | GALVANIZED GALVANIZED STEEL | T.O.P. T.P. | TOP OF PAVEMENT TURNING POINT | |
| ND PM | GROUND GALLONS PER MINUTE | TR., TRANS | TRANSFORMER OR TOP RAMP | $[\frac{1}{2},1$ |
| PR | GROUND PENETRATING RADAR | TSSFM TYP | TEMPORARY SANITARY SEWER FORCE MAIN TYPICAL | |
| R S | GRADE GROUND SHOT | TV TW | TELEVISION TOP WALL / TOP WALK | |
| | HUB | UBC | UNIFORM BUILDING CODE | |
| DD P | HORIZONTAL DIRECTIONAL DRILL | UMC | UNIFORM MECHANICAL CODE | |
| C | HIGH POINT HORSEPOWER | UPC | UNIFORM PLUMBING CODE | |
| ORIZ DPE | HORIZONTAL HIGH DENSITY POLYETHYLENE PIPE | V | VOLTS | |
| IMA | HOT MIX ASPHALT | V VC | VENT VERTICAL CURVE | |
| WR WS | HOT WATER RETURN HOT WATER SUPPLY | VD | VAULT DRAIN | |
| IV | INVERT | VERT VOL | VERTICAL VOLUME | |
| | INVERT ELEVATION | VPC VPI | VERTICAL POINT OF CURVATURE VERTICAL POINT OF INTERSECTION | |
| Г | JOINT | VPT | VERTICAL POINT OF TANGENCY | |
| | VERTICAL CURVE GRADIENT VALUE | WD | WALL DRAINAGE | |
| | LENGTH LEFT | WP WWF | WEATHERPROOF WELDED WIRE FABRIC | |
| 3 | POUND | WT W | WEIGHT WATER | |
| - N | LINEAL FEET/FOOT LINEAR | W | WEST | |
| DNGIT IG | LONGITUDE LIGHTING | WISHA WSDOT | WASHINGTON INDUSTRIAL SAFETY AND HEALTH ADMINISTRATION WASHINGTON STATE DEPARTMENT OF TRANSPORATION | |
| | MEASURED | WS W/ | WATER SERVICE OR WATER SURFACE WITH | |
| B | MAILBOX MATCH EXISTING | XFMR | TRANSFORMER | |
| Н | MANHOLE | | | |
| J ECH | MECHANICAL JOINT MECHANICAL | | | |
| EG EMB | MATCH EXISTING GRADE MEMBRANE | | | |
| AΧ | MAXIMUM | | | |
| IN | MINIMUM | | | |
| IPT | MALE IRON PIPE THREAD | | | |
| AIPT AISC AON | MALE IRON PIPE THREAD MISCELLANEOUS MONUMENT | | | |

LEGEND

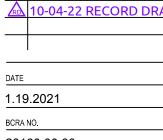
| EXISTING FEATURES | |
|-------------------|---|
| • | |
| \oplus | CALCULATED MONUMENT POSITION |
| 0 | FOUND REBAR / IRON PIPE AS NOTED |
| ٠ | SET REBAR & CAP LS 44639 |
| $+ \otimes$ | SURVEY CONTROL POINT, AS NOTED |
| 0 | SANITARY SEWER MANHOLE / SEPTIC LID AS NOTED |
| 0 | SANITARY SEWER CLEAN OUT |
| | STORM CATCH BASIN |
| _ | ROOF DRAIN |
| | |
| | WATER VALVE WATER METER |
| | |
| | FIRE HYDRANT |
| k3 | IRRIGATION CONTROL VALVE |
| | GAS VALVE |
| \bigcirc | GAS METER |
| -0- | UTILITY POLE |
| | GUY ANCHOR |
| J | JUNCTION BOX |
| Ρ | POWER VAULT |
| \boxtimes | ELECTRICAL METER |
| • | COLUMN |
| © | BOLLARD |
| Ø | GATE POST |
| Д | SIGN |
| | MAILBOX |
| \oslash | MONITORING WELL |
| \bigcirc | DECIDUOUS TREE |
| TPN | TAX PARCEL NUMBER |
| FFE | FINISH FLOOR ELEVATION |
| | BOUNDARY LINE |
| | LOT LINE |
| | SECTION LINE |
| | ROAD CENTERLINE |
| D SD | STORM DRAIN LINE |
| s —— ss —— | SANITARY SEWER LINE |
| — w — w — | BURIED WATER LINE |
| AS ——— GAS ——— | BURIED GAS LINE |
| TEL | BURIED TELECOM LINE |
| — – OHP – ——— | OVERHEAD POWER LINE |
| O | CHAIN LINK FENCE |
| | WOOD FENCE |
| SD SD | RECORD STORM LINE |
| ss – – – ss — | RECORD SANITARY LINE |
| - w w | RECORD WATER LINE |
| - GAS GAS | RECORD GAS LINE |
| — — — T — — — T — | RECORD TELECOM LINE |
| | ASPHALT SURFACE |
| | CONCRETE SURFACE |
| | GRAVEL SURFACE |
| | |

| \bigotimes | CATCH BASIN PROTECTION, PER DETAIL A2/C6.0 | |
|--------------|---|--|
| [] | DEMOLITION OF DESIGNATED ITEM | |
| X | DEMOLISH FEATURE | |
| | TEMPORARY SOIL STOCKPILE | |
| | SAWCUT PAVEMENT | |
| | LIMITS OF WORK | |
| — TP —— | TREE PROTECTION FENCE, PER DETAIL B1/C6.0W | |
| | SILT FENCE, PER DETAIL B3/C6.0W | |
| | ASPHALT DEMOLITION | |
| | GRASS REMOVAL | |
| | CONCRETE REMOVAL | |
| | AC GRIND | |
| ਤਤਤਤ | | |
| | LANDSCAPE REMOVAL CONCRETE CURB | |
| X | CHAINLINK FENCE | |
| | SIGNAGE | |
| 0 | GATE POST | |
| | FLAG POLE | |
| | SPEED BUMP | |
| | PAVEMENT STRIPING | |
| | HEAVY DUTY ASPHALT RESTORATION | |
| ····· | LIGHT DUTY ASPHALT RESTORATION | |
| | CONCRETE WALK RESTORATION | |
| | PERVIOUS ASPHALT PAVEMENT | |
| | GRAVEL PAD | |
| | GRAVEL FAD | |
| | | |
| | 2" HMA OVERLAY | |
| | PLANTING BED INFILTRATION TRENCH | |
| | | |
| | CATCH BASIN, TYPE 1 | |
| | CATCH BASIN, TYPE 2 | |
| • | | |
| Ø | | |
| — SD — | PERF PVC PIPE | |
| - RD | ROOF DRAIN | |
| XXX | PROPOSED CONTOUR | |
| | EXISTING CONTOUR MAJOR | |
| | EXISTING CONTOUR MINOR | |
| — w — | 1" WATER PIPE | |
| | WATER METER | |
| DCVA | DOUBLE CHECK VALVE ASSEMBLY | |
| — SS — | SANITARY SEWER PIPE, SEE SHEETS C12.1W AND 12.2W | |
| B | TYPE 1 SEWER MANHOLE | |
| • | 6" SEWER CLEANOUT | |





111





REVIEWED BY:

ABBREVIATIONS



C11.3W



Know what's **below. Call** before you dig.

SITTS & HILL **ENGINEERS, INC.** CIVIL = STRUCTURAL = SURVEYING 4815 CENTER STREET | TACOMA, WA. 98409 PHONE: (253) 474-9449 | FAX: (253) 474-0153 http://www.sitts-hill-engineers.com/

Project No.: 19,034 Project Mgr.: Proj. Engineer: S.A.J. Proj. Drafter: S.A.J.

HORIZONTAL DATUM

WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83/2011 BASED ON GPS OBSERVATION UTILIZING THE WASHINGTON STATE REFERENCE NETWORK (WSRN)

VERTICAL DATUM

NAVD 88 BASED ON GPS OBSERVATION UTILIZING THE WSRN WITH NGS GEOID2018 LOADED

SITE TEMPORARY BENCHMARK (T.B.M.) MAG NAIL IN ASPHALT, NORTH OF MAIN BUILDING N: 687636.23 E: 1197398.27 ELEV: 56.52

BASIS OF BEARING

MEASURED NORTH 15°57'37" EAST BETWEEN TWO FOUND MONUMENTS ALONG MILWAUKEE AVE E.

SITE DATA

TAX PARCEL NO. 7705000171 ADDRESS: 5715 MILWAUKEE AVE E, PUYALLUP, WA 98372 LAND AREA: 3.38 AC \pm

NOTES

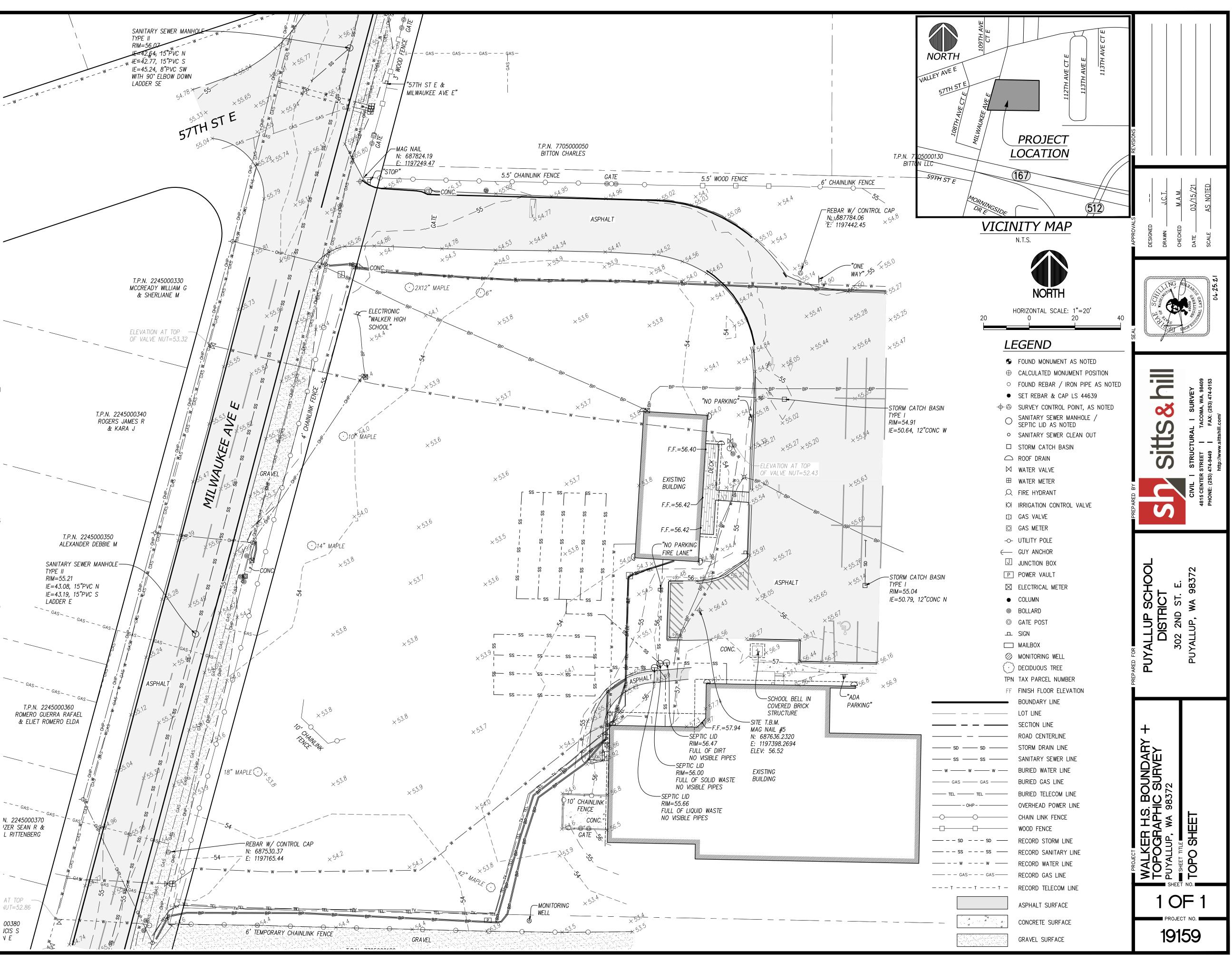
- I. EQUIPMENT USED: TOPCON QS AND/OR CARLSON CR2+ ROBOTIC TOTAL STATION AND TOPCON GR3 RTK/GPS
- 2. THIS SURVEY WAS PERFORMED BY FIELD TRAVERSE WITH THE FINAL RESULTS MEETING OR EXCEEDING THE CURRENT TRAVERSE STANDARDS CONTAINED IN W.A.C. 332–130–090. ALL MEASUREMENTS WERE MADE WITH A TOPCON QS ROBOTIC TOTAL STATION IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
- 3. IN ACCORDANCE WITH THE REVISED CODE OF WASHINGTON (R.C.W.) 58.09 AND THE WASHINGTON ADMINISTRATIVE CODE (W.A.C.) 332–130, THIS SURVEY MAY DEPICT OCCUPATIONAL INDICATORS THAT DIFFER FROM THE DEEDED LOT LINES. THESE INDICATORS, IF AT ALL PRESENT, MAY REPRESENT A POTENTIAL FOR CLAIMS OF UNWRITTEN TITLE. THIS SURVEY DOES NOT PURPORT TO RESOLVE SUCH ITEMS.
- 4. FIELD WORK PERFORMED IN FEBRUARY 2021, UNDER SITTS & HILL JOB NUMBER 19159.
- 5. UTILITIES AS SHOWN HEREON ARE BASED ON FIELD SURVEY OBSERVATION OF UTILITY LOCATE SERVICES PERFORMED BY MT. VIEW LOCATING SERVICES LLC IN FEBRUARY 2021 FOR THIS SURVEY. THIS HAS BEEN SUPPLEMENTED BY RECORD INFORMATION PROVIDED BY PUGET SOUND ENERGY, CITY OF PUYALLUP WATER DIVISION, AND PIERCE COUNTY GIS. RECORD UTILITY LINES SHOWN HEREON ARE DEPICTED WITH A DASHED LINETYPE AS SHOWN IN THE LEGEND. UTILITIES OTHER THAN SHOWN MAY EXIST ON THE SITE. THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE SURVEYOR DOES CERTIFY THAT THEY ARE SHOWN AS ACCURATELY AS POSSIBLE FROM FIELD SURVEY AND PAINTED UTILITY LOCATE LINES. COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA IS CONSISTENT WITH QUALITY LEVEL B OF THE ASCE STANDARD GUIDELINES 38–02.
- 6. SITTS & HILL ENGINEERS, INC. HAS RELIED UPON TITLE INFORMATION NOTED IN COMMITMENT FOR TITLE INSURANCE PREPARED BY CHICAGO TITLE INSURANCE COMPANY, GUARANTEE/CERTIFICATE NUMBER 210529-TC, DATED FEBRUARY 11, 2021. IN PREPARATION OF THIS SURVEY, SITTS AND HILL ENGINEERS, INC. HAS CONDUCTED NO INDEPENDENT TITLE SEARCH NOR IS SITTS AND HILL ENGINEERS, INC. AWARE OF ANY TITLE ISSUES AFFECTING THE SURVEYED PROPERTY OTHER THAN THOSE SHOWN ON THE MAP AND/OR DISCLOSED BY SAID TITLE COMPANY'S ORDER. SITTS & HILL ENGINEERS, INC. HAS RELIED WHOLLY ON SAID TITLE COMPANY'S REPORT AND THEREFORE QUALIFIES THE MAP'S ACCURACY AND COMPLETENESS TO THAT EXTENT.
- 7. THIS SURVEY COMPLIES WITH W.A.C. 332–130–145. THE CONTOURS DEPICTED HEREON ARE BASED ON DATA FROM DIRECT FIELD MEASUREMENTS. SPOT ELEVATIONS ARE BASED ON DIRECT FIELD MEASUREMENTS ARE DEPICTED FOR REFERENCE. THE PURPOSE OF THIS TOPOGRAPHIC SURVEY MAP IS TO SERVE AS A BASE MAP FOR CONTEMPLATED SITE IMPROVEMENTS AND DESIGN.

LEGAL DESCRIPTION

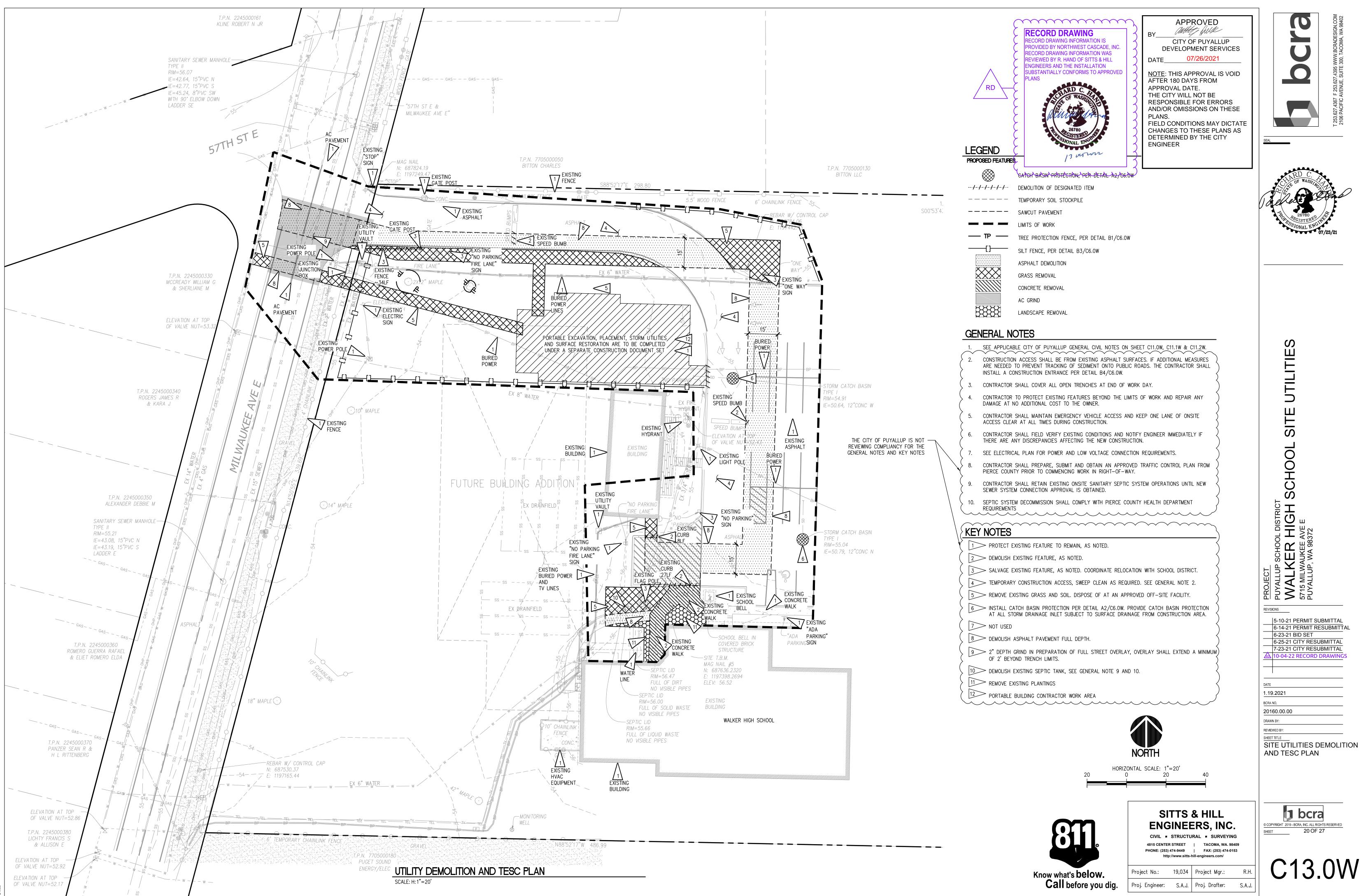
THAT PORTION OF LOTS 4 AND 5, SNELL'S PLAT OF PART OF THE ADAM BENSTON D.C., ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 7 OF PLATS, PAGE 87, RECORDS OF PIERCE COUNTY, DESCRIBED AS FOLLOWS:

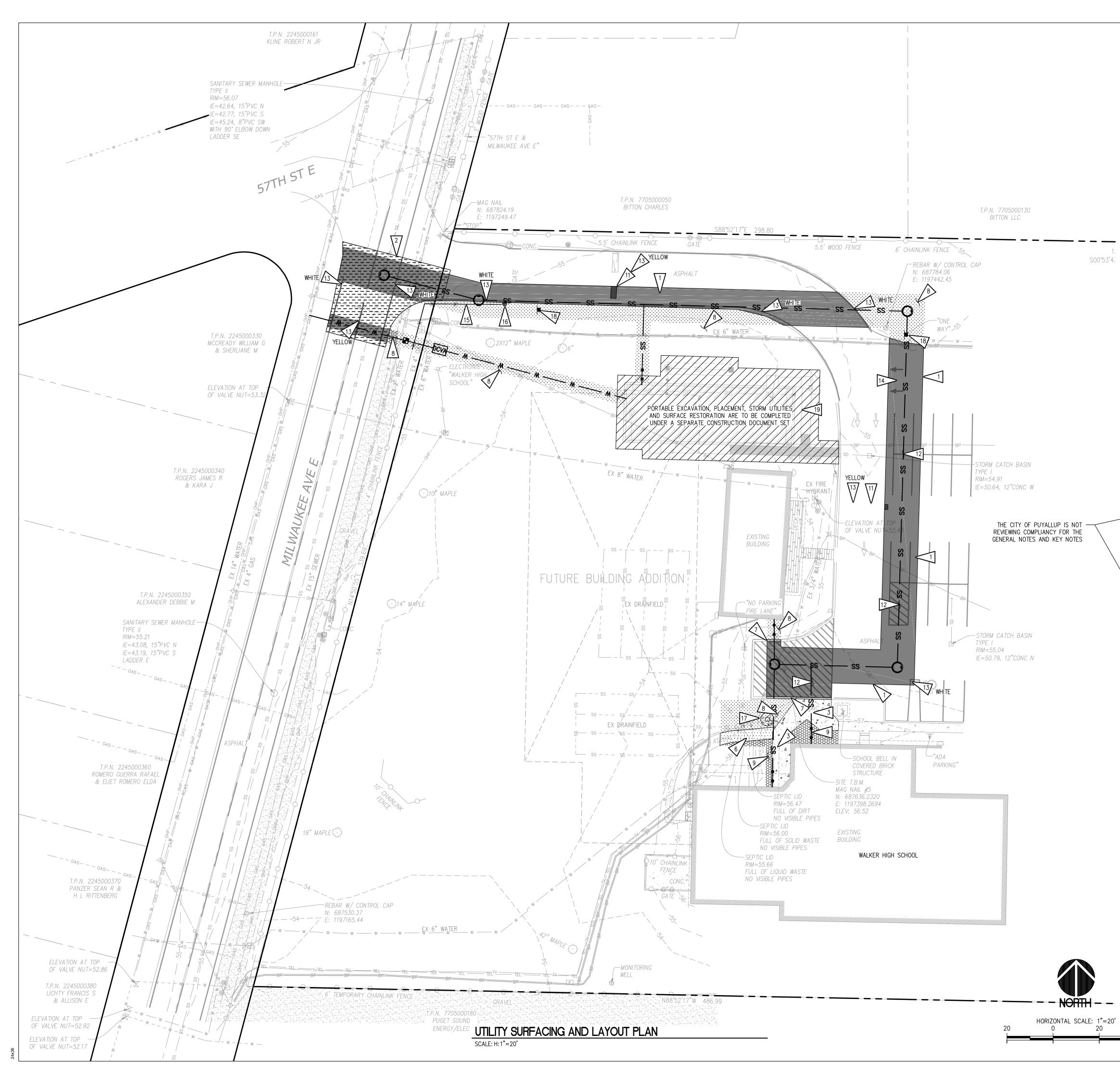
BEGINNING AT A POINT ON THE SOUTH LINE OF SAID LOT 5, 229.72 FEET WEST OF THE SOUTHEAST CORNER THEREOF; THENCE CONTINUING WEST ALONG THE SOUTH LINE OF SAID LOT 5, 490.38 FEET, MORE OR LESS, TO THE WESTERLY OF MILWAUKEE AVENUE;

THENCE NORTHEASTERLY ALONG THE EASTERLY LINE OF SAID MILWAUKEE AVENUE 342 FEET; THENCE EAST ALONG A LINE PARALLEL WITH THE SOUTH LINE OF SAID LOT 5, 402 FEET; THENCE SOUTH ALONG A LINE PARALLEL WITH THE EAST LINE OF SAID LOT 5, 330 FEET TO THE POINT OF BEGINNING.



C12.0W SHEET 5 of 15



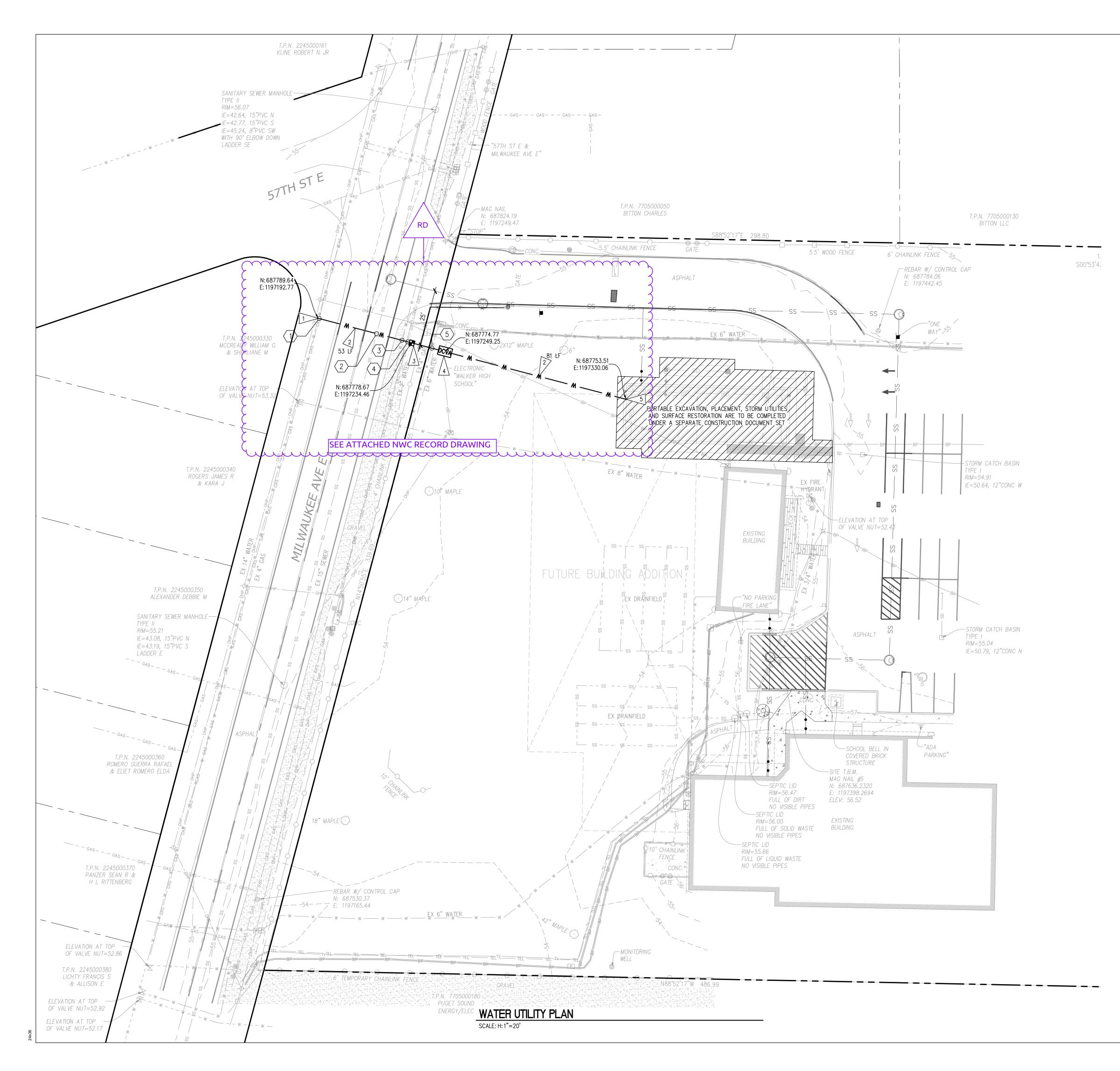


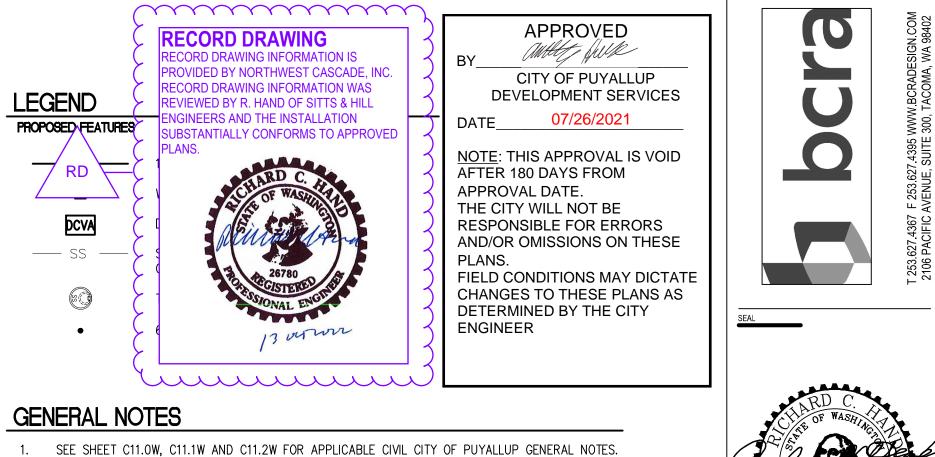
| RD RD PROPOSED FEATUR | RECORD DRAWING INFORMATION IS PROVIDED BY NORTHWEST CASCADE, INC. RECORD DRAWING INFORMATION WAS REVIEWED BY R. HAND OF SITTS & HILL ENGINEERS AND THE INSTALLATION SUBSTANTIALLY CONFORMS TO APPROVED PLANS | APPROVED BY | Tage Tage <t< th=""></t<> |
|---------------------------------------|--|--|---|
| X_ | CHAINLINK FENCE | \sim Length 1.5 Length | RD C. |
| | SIGNAGE | | CHASH INCA T |
| | GATE POST | | A destated |
| Ó | FLAG POLE | | 73 26780 |
| ······ | SPEED BUMP | | PEGISTERED NE |
| | PAVEMENT STRIPING | | 07/23/21 |
| | HEAVY DUTY ASPHALT RESTORATION | | |
| · · · · · · · · · · · · · · · · · · · | LIGHT DUTY ASPHALT RESTORATION | | |
| | CONCRETE WALK RESTORATION | | |
| | GRASS RESTORATION | | |
| | 2" HMA OVERLAY | | |
| | PLANTING BED | | |
| GENERAL N | NOTES | | |
| 1. SEE APPLIC | ABLE CITY OF PUYALLUP GENERAL CIVIL NOTES ON | SHEET C11.0W, C11.1W AND C11.2W. | S |
| 2. SEE APPLIC | ABLE PIERCE COUNTY GENERAL CIVIL NOTES ON SHE | ET C1.1W. | |
| (SUCH AS I | R IS RESPONSIBLE TO PROTECT EXISTING UTILITY/CO METAL PLATES, ETC.) DURING INSTALLATION. DAMAGE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL (| ED SURFACE FEATURES OR UTILITIES < | |
| 4. SEE ELECTR | RICAL FOR BURIED POWER AND COMMUNICATION CONE | DUIT AND TRENCH INSTALLATION | E |
| 5. CONTRACTO | R SHALL RESTORE ALL SURFACES DISTURBED AS A EXCLUDING THE BUILDING, GRAVEL PAD, ASPHALT OF | R GRAVEL SURFACES, AND | |
| 6. CONTRACTO | PROVIDE 8" DEPTH COMPOST AMENDED TOPSOIL PER | | SIT |
| \mathbf{b} | TATION IS ESTABLISHED. | | |
| | R TO USE HORIZONTAL AND VERTICAL DATUM AS OU | JILINED ON SHEET CI2.0W. | |
| | 8 |) | Ĭ |
| HEAVY D | UTY ASPHALT PAVEMENT RESTORATION, SEE DETAIL | A1/C17.1W | S S S |
| 2 2" AC 0" | VERLAY, SEE DETAIL A3/C17.1W | \langle | |
| CONCRET | E WALK RESTORATION, SEE DETAIL B1/C17.1W & B2, | /C17.1W | D T T T |
| A NOT USE | | $\left\{ \right.$ | |
| 5 NOT USE | | $\langle \rangle$ | |
| | ITY ASPHALT RESTORATION, SEE DETAIL A2/C17.1W |) | ALKEF ALKEF MILWAUKE ALLUP, WA |
| | E CURB, MATCH EXISTING, SEE DETAIL B4/C17.1W | \langle | |
| \geq | DISTURBED LANDSCAPE AREA, SEE DETAIL C4/C17.1 | | PROJECT PUYALLU WALI 5715 MILV PUYALLU |
| 9 PROVIDE | PLANTING AND 4" BARK MULCH, PLANTING SIZE AND |) SPACING TO MATCH EXISTING. | |
| | D BUMP, MATCH EXISTING, SEE DETAIL B3/C17.1W | \langle | REVISIONS |
| | IT STRIPING, SEE DETAIL D3/C17.1W | $\langle \rangle$ | 5-10-21 PERMIT SUBMITTAL |
| \geq | IT STRIFING, SEE PLANS FOR COLOR, SEE DETAIL D2 |) /C17.1W | 6-23-21 BID SET 6-25-21 CITY RESUBMITTAL |
| | IT STRIPING, SEE PLANS FOR COLOR, SEE DETAIL DZ, | / Si / | 7-23-21 CITY RESUBMITTAL |
| $\langle \rangle$ | L SALVAGED 4' HIGH CHAIN LINK FENCE, SEE DETAIL | C2/C17.1W | A 10-04-22 RECORD DRAWINGS |
| | L SALVAGED 4 HIGH CHAIN LINK FENCE, SEE DETAIL L SALVAGED GATE POST, SEE DETAIL C1/C17.1W | - 02/01/.1W | |
| $\langle \boldsymbol{k} \rangle$ | L SALVAGED FLAG POLE, MATCH EXISTING | \langle | DATE 1.19.2021 |
| | L SALVAGED FLAG FOLE, MATCH EXISTING | \langle | BCRA NO. |
| | E BUILDING CONTRACTOR WORK AREA | \langle | 20160.00.00 |
| FURTABL | | m | DRAWN BY: REVIEWED BY: |
| | | | SITE UTILITIES SURFACING |
| | | | AND LAYOUT PLAN |





Know what's **below. Call** before you dig. Proj. Engineer: S.A.J. Proj. Drafter: S.A.J.





- TYPICAL UTILITY TRENCH, EXCAVATION, BEDDING AND BACKFILL SHALL COMPLY WITH CITY OF
- PUYALLUP STANDARD DETAIL 06.01.01/C17.3W.
- ADJUST OR SET FRAMES OF EXISTING AND PROPOSED UTILITY GRATES AND COVERS AS NECESSARY TO MATCH THE CROSS SLOPE OF THE PROPOSED FINISHED GRADE AND SUCH THAT NO PONDING OCCURS AROUND UTILITY GRATES AND COVERS.
- 4. COMPLY WITH WATER MAIN CLEARANCE REQUIREMENTS IN PER CITY OF PUYALLUP STANDARD DETAIL 03.01.03-1/C13.0W AND CITY OF PUYALLUP STANDARD DETAIL 03.01.03-2/C17.2W.
- 5. PROVIDE 3'-0" MINIMUM COVER OVER WATER PIPELINES UNLESS OTHERWISE SPECIFIED.
- 6. THE MINIMUM DISTANCE BETWEEN WATER AND SEWER LINES SHALL BE 10 FEET HORIZONTALLY AND 18" VERTICALLY. IF THIS CRITERION CANNOT BE MET, THE CONTRACTOR SHALL ISOLATE SEWER AND WATER LINES BY ENCASEMENT, SHIELDING, OR OTHER APPROVED METHODS.
- 7. THE CONTRACTOR SHALL EXPOSE THE 14 INCH CAST IRON WATER MAIN AND VERIFY THE PIPE O.D. THIS PIPE MAY BE UNDERSIZED WHERE A STANDARD TAPPING SADDLE FOR 14 INCH CAST IRON WILL NOT FIT.
- 8. CONTRACTOR TO USE HORIZONTAL AND VERTICAL DATUM AS OUTLINED ON SHEET C12.0W.

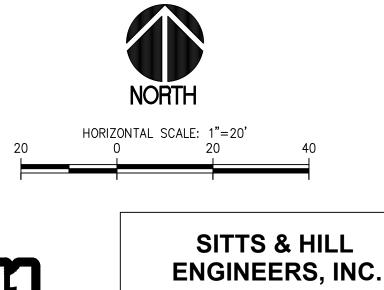
KEY NOTES

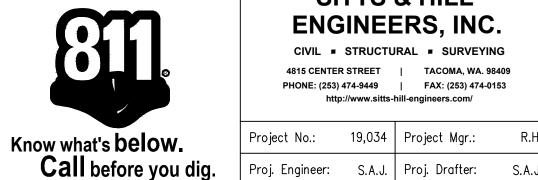
1 CONNECT TO EXISTING 14" WATER MAIN, PER CITY OF PUYALLUP STANDARD DETAIL 03.01.01/C17.2W

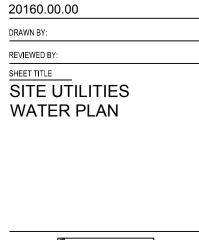
- 2 > 1" WATER SERVICE LINE, SEE PLANS FOR LENGTH.
- 3 1" WATER METER, SEE CITY OF PUYALLUP STANDARD DETAIL 03.03.01/C17.2W.
- 4 1" DOUBLE CHECK VALVE ASSEMBLY, PER CITY OF PUYALLUP STANDARD DETAIL
- 03.04.01/C17.2W.
- 5 WATER SERVICE CONNECTION, PER CITY OF PUYALLUP STANDARD DETAIL 03.03.04/C17.2W

UTILITY CROSSING

- TOP OF 1" WATER=52.73 ESTIMATED BTM OF 4" GAS=55.88 SEPARATION=3.17'
- TOP OF 15" SEWER=42.89 $\langle 2 \rangle$ BTM 1" WATER=52.72 SEPARATION=9.85'
- TOP OF 1" WATER=51.95 $\overline{3}$ ESTIMATED BTM OF EX 2" WATER=52.48 SEPARATION=0.53'
- TOP OF 1" WATER=51.90ESTIMATED BTM OF EX 4" GAS=52.59SEPARATION=0.69'
- TOP OF 1" WATER=51.85 5 ESTIMATED BTM OF EX 6" WATER=52.41 SEPARATION=0.44'







07/23/2

S С

TILITIE

 \supset

Ш

-

S

 \overline{O}

 \cap

PROJECT PUYALLUP SCHOOL DISTRICT WALKER HIGH SCH(5715 MILWAUKEE AVE E 5715 MILWAUKEE AVE E

REVISIONS

1.19.2021

BCRA NO.

5-10-21 PERMIT SUBMITTAL

6-23-21 BID SET 6-25-21 CITY RESUBMITTAL

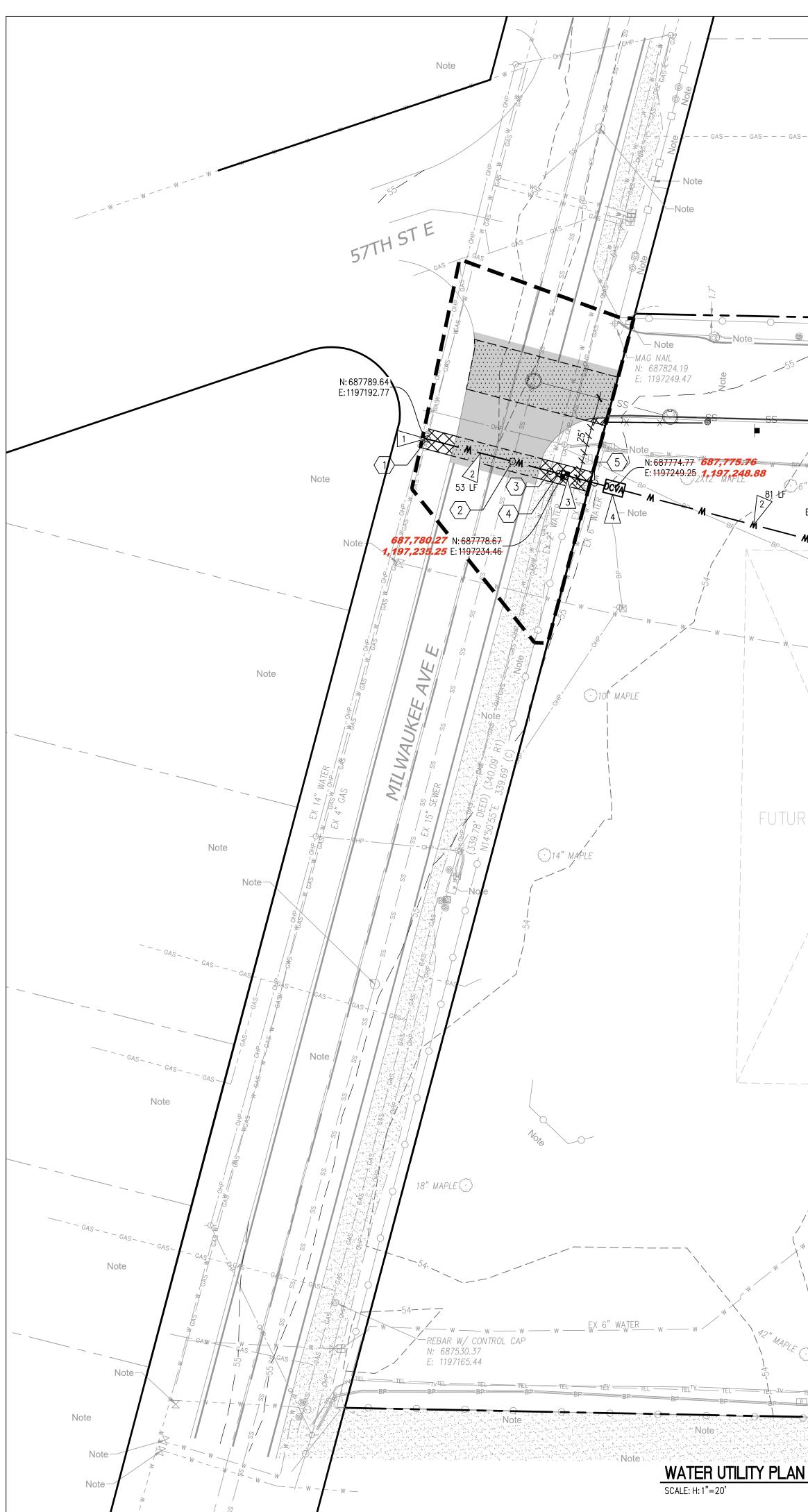
7-23-21 CITY RESUBMITTAL

10-04-22 RECORD DRAW

6-14-21 PERMIT RESUBMITTAL



C15.0W



Record Drawings

AMERICAN SURVEYING & ENVIRONMENTAL, LLC CONDUCTED THE FINAL ASBUILT SURVEY ON AUGUST 31, SEPTEMBER 19,2022 2022 AND PREPARED THESE FINAL RECORD DRAWINGS WITH AVAILABLE INFORMATION FROM A FIELD SURVEY. THE INFORMATION SHOWN ON THESE DRAWINGS REFLECTS THE AS-CONSTRUCTED DATA AT THE TIME OF SURVEY AND SHOULD BE FIELD VERIFIED FOR ANY FUTURE USE. THE HORIZONTAL POSITIONS AND ELEVATIONS REPORTED HEREON FOR THE SANITARY SEWER STRUCTURES WERE FIELD SURVEYED AS STATED. As Builts Note (297.49'R1) S88°52'17"E 298.80'(CALC) _ _ _ Note Note Note S00°53'4 Note /---REBAR W/ CONTROL CAP N: 687784.06 1197442.45 EX 6" WATER - w 🦯 — w — N:687753.51 E:1197330.06 PÓRŤABĹE EXĆAVATÍON, PĹAĆEMENŤ, ŚTÓRM UŤILIŤIEŚ AND SURFACE RESTORATION ARE TO BE COMPLETED UNDER A SEPARATE CONSTRUCTION DOCUMENT EX 8" WATER \backslash EX FIRE Note $-SS - T - SS - - - \beta S -$ FUTURE BULLDING ADDITION EX DRAINFIELD -Note -Note Note --SS_____ SS _ _ _ _ $ss' - - ss - - \sqrt{ss'}$ ex Ørainfield 12 SS - - -- – ss – – — └── ss - - - s⁄s - - - ss - --Note -Note -Note -Note Note Note Note Note Note –Note ∴N88°52'17"W 486.99

| | PRIVATE IMPROVEMENTS |
|-------------------|----------------------|
| LEGEND | |
| PROPOSED FEATURES | DEVELOPMENT ENGINEER |

| | PERMIT # |
|---|---|
| | BY |
| DEVELOPMENT ENGINEER PIERCE COUNTY ORDINANCE NUMBER | CITY OF PUKALLUP DEVELOPMENT ENGINEERING |
| 1 ^{"1} WATERCPIPE, THE AREA INSPECTOR, AT 253-798- AND COUNTY INSPECTIONS. PRE-CONSTRUCTION MEETING SHALL BE REQUES | DATE OORDINATE THE PRE CONSTRUCTION MEETING TED AT LEAST 48-HOURS IN ADVANCE OF THE START OF |
| CONSTRUCTION. WATER METER 2. APPOINT A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD WHO SHALL F | NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL EPPONTED A COPY OF THE SWPPP, EROSION CONTROL DATE. |
| PLAN & INSPECTION SCHEDULE. DOUBLE CHECK VALVE ASSEMBLY 3. FAILURE TO OBTAIN REQUIRED INSPECTIONS MAY ENDANGER OR DELAY PRO | THE CITY WILL NOT BE |
| SANITARYOREWERPERGEEGEGEGE-SHEEGGRES A GENERAL RIGHT-OF-W C12.1W ^{OR} AND 12.2W | |
| TYPE 1 SEWER MANHOLE | FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE |
| 6" SEWER CLEANOUT | DEVELOPMENT ENGINEERING MANAGER. |
| | PIERCE COUNTY ORDINANCE NUMBER 1" 1WATERCPIPE, THE AREA INSPECTOR, AT 253-798 |

APPROVED



GENERAL NOTES

- SEE SHEET C11.0W, C11.1W AND C11.2W FOR APPLICABLE CIVIL CITY OF PUYALLUP GENERAL NOTES.
- TYPICAL UTILITY TRENCH, EXCAVATION, BEDDING AND BACKFILL SHALL COMPLY WITH CITY OF PUYALLUP STANDARD DETAIL 06.01.01/C17.3W.
- ADJUST OR SET FRAMES OF EXISTING AND PROPOSED UTILITY GRATES AND COVERS AS NECESSARY TO MATCH THE CROSS SLOPE OF THE PROPOSED FINISHED GRADE AND SUCH THAT NO PONDING OCCURS AROUND UTILITY GRATES AND COVERS.
- 4. COMPLY WITH WATER MAIN CLEARANCE REQUIREMENTS IN PER CITY OF PUYALLUP STANDARD DETAIL 03.01.03-1/C13.0W AND CITY OF PUYALLUP STANDARD DETAIL 03.01.03-2/C17.2W.
- 5. PROVIDE 3'-0" MINIMUM COVER OVER WATER PIPELINES UNLESS OTHERWISE SPECIFIED.
- 6. THE MINIMUM DISTANCE BETWEEN WATER AND SEWER LINES SHALL BE 10 FEET HORIZONTALLY AND 18" VERTICALLY. IF THIS CRITERION CANNOT BE MET, THE CONTRACTOR SHALL ISOLATE SEWER AND WATER LINES BY ENCASEMENT, SHIELDING, OR OTHER APPROVED METHODS.
- 7. THE CONTRACTOR SHALL EXPOSE THE 14 INCH CAST IRON WATER MAIN AND VERIFY THE PIPE O.D. THIS PIPE MAY BE UNDERSIZED WHERE A STANDARD TAPPING SADDLE FOR 14 INCH CAST IRON WILL NOT FIT.
- 8. CONTRACTOR TO USE HORIZONTAL AND VERTICAL DATUM AS OUTLINED ON SHEET C12.0W.

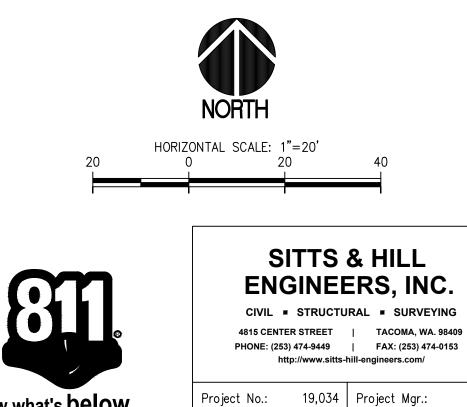
KEY NOTES

CONNECT TO EXISTING 14" WATER MAIN, PER CITY OF PUYALLUP STANDARD DETAIL 03.01.01/C17.2W

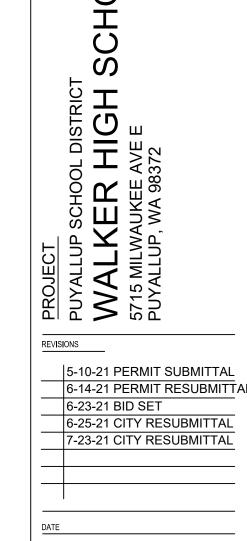
- 2 > 1" water service line, see plans for length.
- 3 > 1" water meter, see city of puyallup standard detail 03.03.01/C17.2W.
- |4>> 1" DOUBLE CHECK VALVE ASSEMBLY, PER CITY OF PUYALLUP STANDARD DETAIL
- 03.04.01/C17.2W.
- 5 WATER SERVICE CONNECTION, PER CITY OF PUYALLUP STANDARD DETAIL 03.03.04/C17.2W

UTILITY CROSSING

- TOP OF 1" WATER=52.73 ESTIMATED BTM OF 4" GAS=55.88 SEPARATION=3.17'
- TOP OF 15" SEWER=42.89BTM 1" WATER=52.72SEPARATION=9.85'
- TOP OF 1" WATER=51.95 $\overline{3}$ ESTIMATED BTM OF EX 2" WATER=52.48 SEPARATION=0.53'
- TOP OF 1" WATER=51.90ESTIMATED BTM OF EX 4" GAS=52.59SEPARATION=0.69'
- 5 TOP OF 1" WATER=51.85 ESTIMATED BTM OF EX 6" WATER=52.41 SEPARATION=0.44'



| Know what's below. | | | | | | |
|---------------------------|--|--|--|--|--|--|
| Call before you dig. | | | | | | |



ဟ

ITILITE:

 \Box

Щ

S

 \mathbf{O}

 \cap

| ΓE | | | |
|----|--|--|--|
| | | | |

1.19.2021 BCRA NO.

20160.00.00

DRAWN BY: REVIEWED BY:

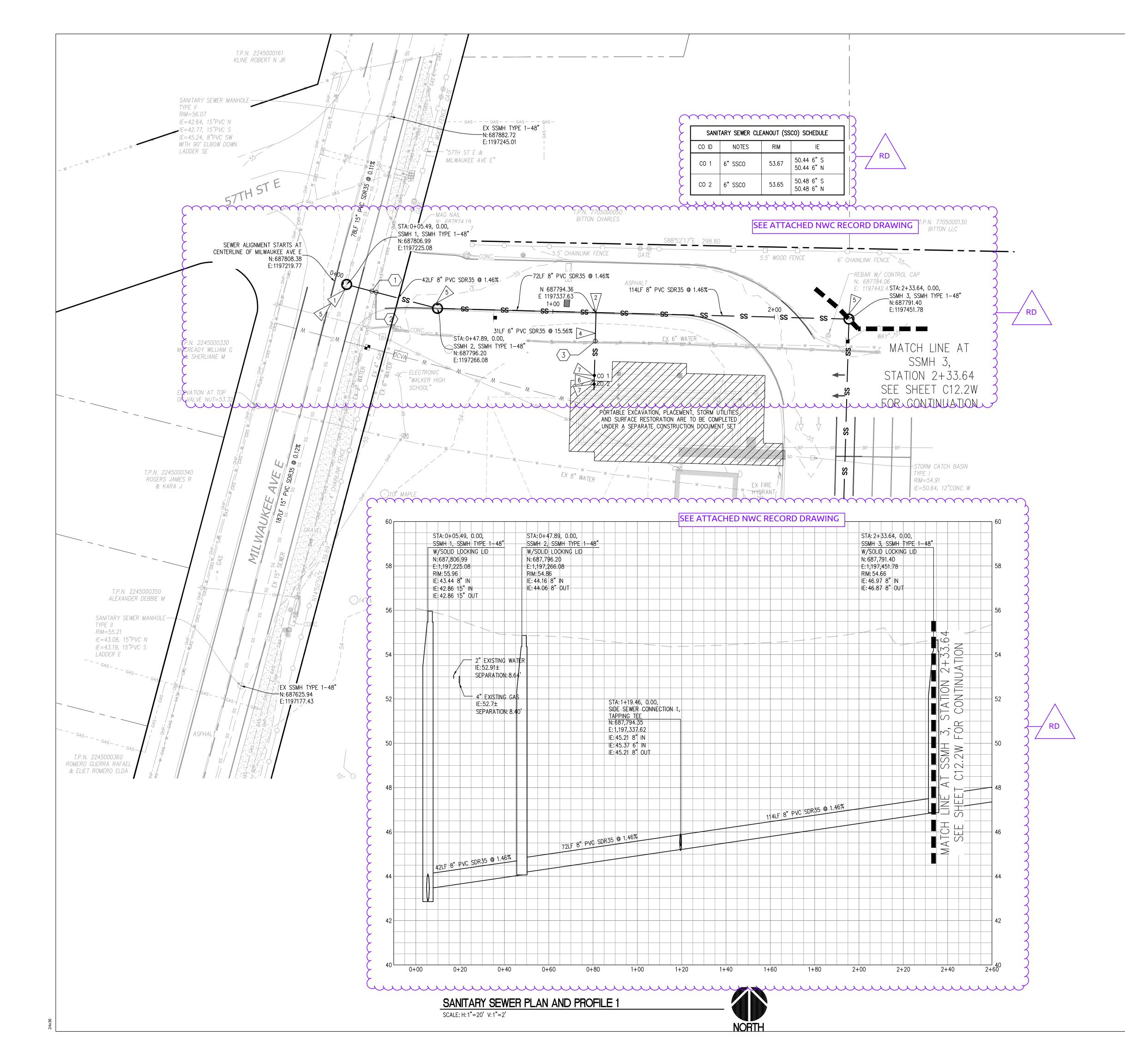
SHEET TITLE WATER PLAN

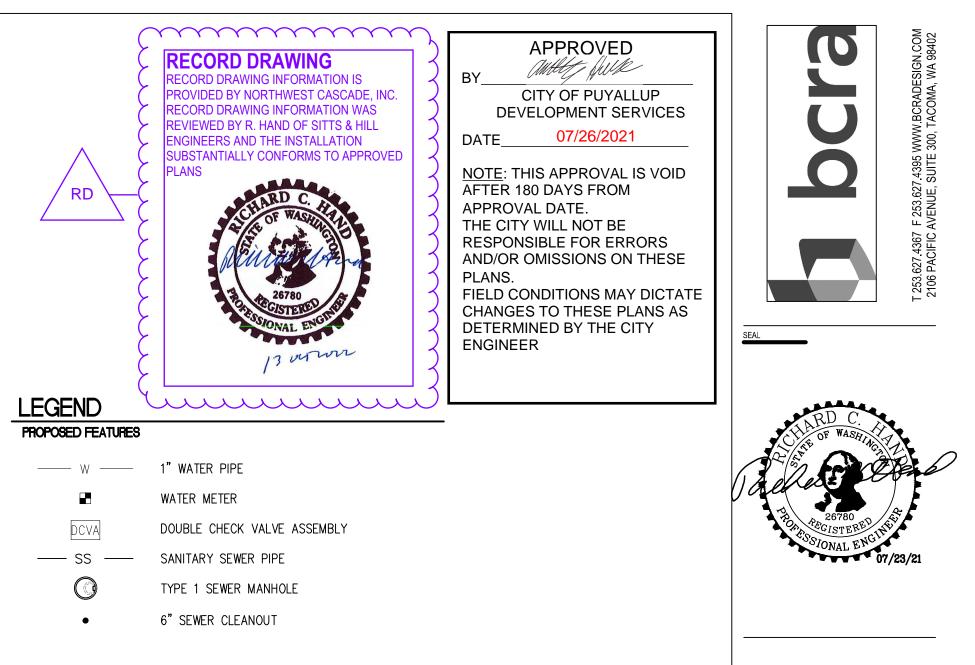




IF SHEET MEASURES LESS THAN 24"X36", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY

Proj. Engineer: S.A.J. Proj. Drafter: S.A.J



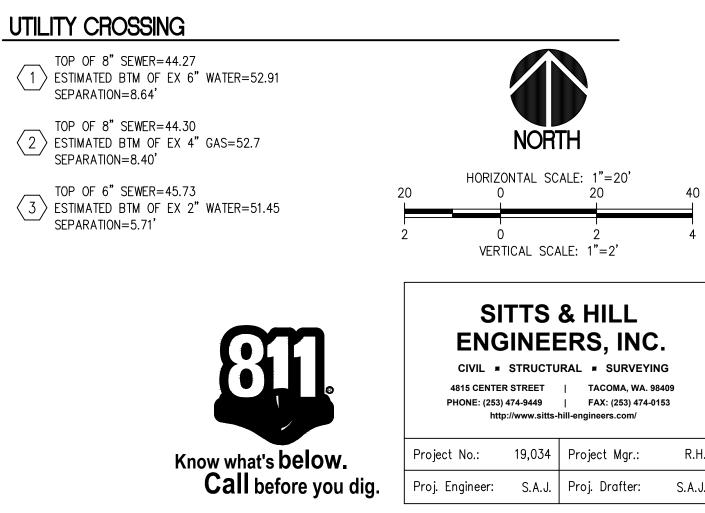


GENERAL NOTES

- SEE SHEET C11.0W, C11.1W AND C11.2W FOR APPLICABLE CIVIL CITY OF PUYALLUP GENERAL NOTES.
- TYPICAL UTILITY TRENCH, EXCAVATION, BEDDING AND BACKFILL SHALL COMPLY WITH CITY OF PUYALLUP STANDARD DETAIL 06.01.01 REQUIREMENTS. SEE CITY OF PUYALLUP STANDARD DETAIL 06.01.01/C17.3W.
- 3. ALL SEWER MANHOLE COMPONENTS SHALL BE PER CITY OF PUYALLUP STANDARD DETAILS SANITARY SEWER MANHOLE: 04.01.01/C17.3W 06.01.02/C17.4W FRAME AND COVER: 06.01.03/C17.4W STEPS AND HANDHOLD:
- 4. ADJUST OR SET FRAMES OF EXISTING AND PROPOSED UTILITY GRATES AND COVERS AS NECESSARY TO MATCH THE CROSS SLOPE OF THE PROPOSED FINISHED GRADE AND SUCH THAT NO PONDING OCCURS AROUND UTILITY GRATES AND COVERS.
- COMPLY WITH WATER MAIN CLEARANCE REQUIREMENTS IN PER CITY OF PUYALLUP STANDARD DETAIL 03.01.03-1/C17.2W AND CITY OF PUYALLUP STANDARD DETAIL 03.01.03-2/C17.2W.
- 6. NOT USED
- THE MINIMUM DISTANCE BETWEEN WATER AND SEWER LINES SHALL BE 10 FEET HORIZONTALLY AND 18" VERTICALLY. IF THIS CRITERION CANNOT BE MET, THE CONTRACTOR SHALL ISOLATE SEWER AND WATER LINES BY ENCASEMENT, SHIELDING, OR OTHER APPROVED METHODS.
- 8. CONTRACTOR SHALL USE HORIZONTAL AND VERTICAL DATUM AS OUTLINED ON SHEET C12.0W.
- CONTRACTOR SHALL POTHOLE EX UTILITIES IN FRONT OF MAIN BUILDING PRIOR TO INSTALLATION OF NEW UTILITIES. REPORT HORIZONTAL AND VERTICAL POSITIONS OF SANITARY SEWER TO ENGINEER. ALLOW 3 BUSINESS DAYS TIME FOR ENGINEER DESIGN VERIFICATION PRIOR TO COMMENCING SANITARY SEWER WORK
- 10. CONTRACTOR SHALL LOCATE HORIZONTAL AND VERTICAL POSITION OF EXISTING SEWER SERVICES. UTILIZE GPR DIE TESTING, TRACER WIRE AND POTHOLE EXCAVATION METHODS.
- 11. SIDE SEWER SERVICE INSTALLATION PER DETAIL 04.03.02/C17.3W UNLESS OTHERWISE STATED.

KEY NOTES

- 1 CONNECT TO EXISTING 15" SEWER MAIN.
- 2 TAPPING TEE, SEE CITY OF PUYALLUP STANDARD DETAIL 04.02.01/C17.3W.
- 3 NOT USED
- $4 \rightarrow 6$ " SIDE SEWER PIPE, SEE PLANS FOR LENGTH.
- 5 TYPE 1 48" SEWER MANHOLE, SEE CITY OF PUYALLUP STANDARD DETAIL 04.01.01/C17.3W
- 6 SIDE SEWER SAMPLING STATION, SEE CITY OF PUYALLUP STANDARD DETAIL 04.03.04/C17.3W
- $7 \rightarrow 6$ " CLEANOUT, SEE DETAIL C3/C17.3W.



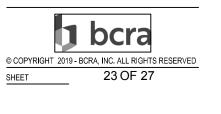
IF SHEET MEASURES LESS THAN 24"X36", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY

| PROJECT | PUYALLUP SCHOOL DISTRICT | WALKER HIGH SCHOOL SITE | 5715 MILWAUKEE AVE E | PUYALLUP, WA 98372 | | | | |
|-------------|--------------------------|-------------------------|----------------------|--------------------|------------|-----|-------------|---|
| REVIS | ONS | | | | | | | |
| | 5-10 6-14 | 4-21 P | | 1IT I | SUE RES | | rtai Mit | |
| | 6-23 | 3-21 B | | ET | 2110 | | - | - |
| | 7-23 | 5-21 C 3-21 C | ITY | RES | SUB | MIT | TAL | - |
| RD | |)4-22 I | | | | | | |
| | | | | | | | | - |
| DATE | | | | | | | | _ |
| .19.2021 | | | | | | | | |
| CRA NO. | | | | | | | | |
| 20160.00.00 | | | | | | | | |
| RAWN BY: | | | | | | | | _ |
| | | | | | | | | |
| | | /: | | | | | | - |
| SHEET | T TITLE | | ITIE | ES | | | | - |
| | | | | | /EF | 2 | | _ |

ဟ

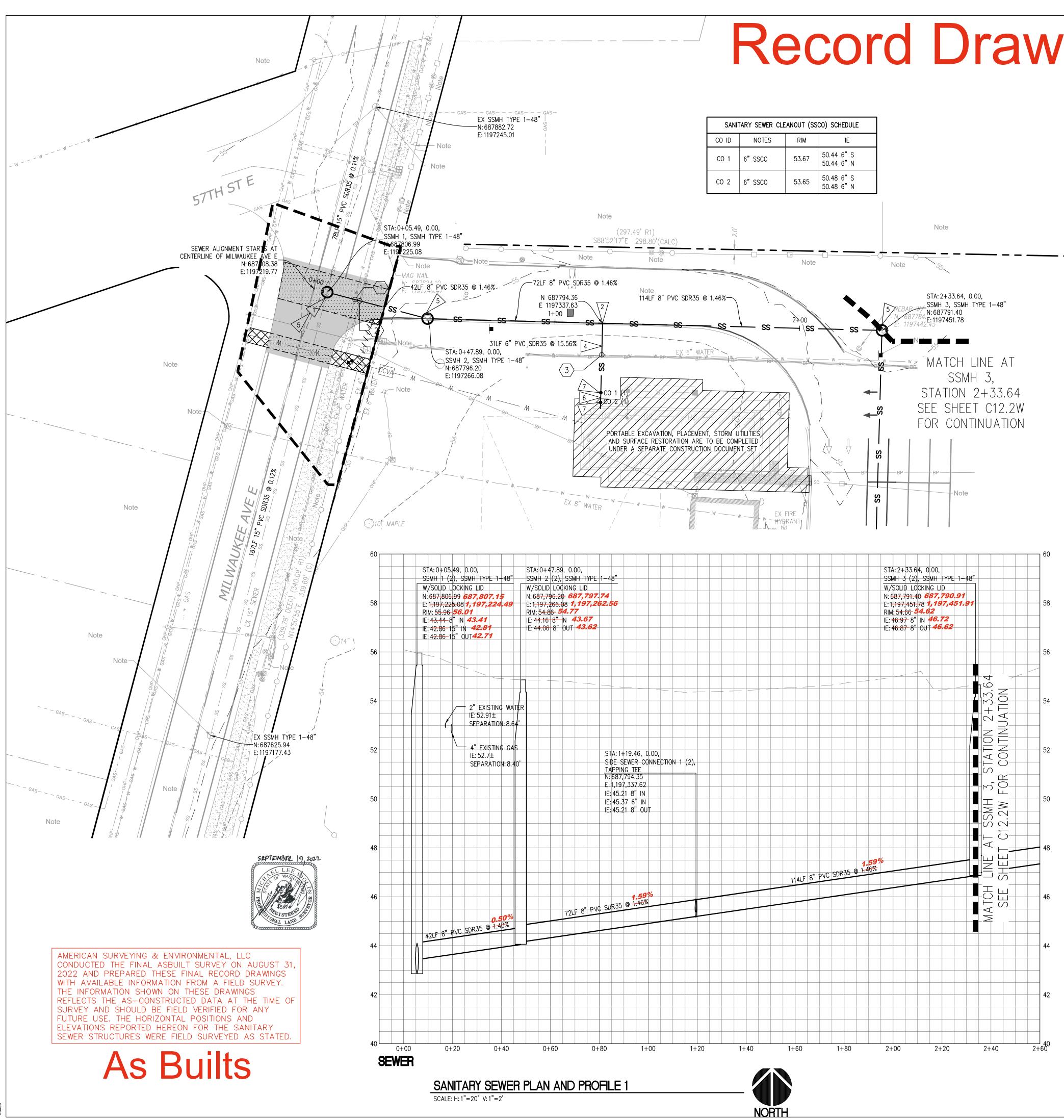
TILITIE

 \supset



C16.0W

40



Record Drawings

PRIVATE IMPROVEMENTS

DEVELOPMENT ENGINEER

PLAN & INSPECTION SCHEDULE.

CONTACT

CONSTRUCTION.

PIERCE COUNTY ORDINANCE NUMBER

APPROVED

PERMIT # CITY OF PUNALLUP DEVELOPMENT ENGINEERING CONTACT ______, THE AREA INSPECTOR, AT 253-798-_____ AND COUNTY INSPECTIONS. PRE-CONSTRUCTION MEETING SHALL BE REQUES DATE OOR DINATE THE PRE CONSTRUCTION ME D AT LEAST 48-HOURS IN ADVANCE OF THE START OI NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL APPOINT A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD WHO SHALL DATE. THE CITY WILL NOT BE FAILURE TO OBTAIN REQUIRED INSPECTIONS MAY ENDANGER OR DELAY RESPONSIBLE FOR ERRORS Y FAND / ORM OMISSIONS PONNTHESEPUB 4. ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-

PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.



LEGEND

PROPOSED FEATURES

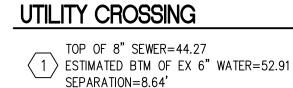
| — W — | 1" WATER PIPE |
|------------|-----------------------------|
| | WATER METER |
| DCVA | DOUBLE CHECK VALVE ASSEMBLY |
| — SS — | SANITARY SEWER PIPE |
| \bigcirc | TYPE 1 SEWER MANHOLE |
| • | 6" SEWER CLEANOUT |

GENERAL NOTES

- SEE SHEET C11.0W, C11.1W AND C11.2W FOR APPLICABLE CIVIL CITY OF PUYALLUP GENERAL NOTES.
- TYPICAL UTILITY TRENCH, EXCAVATION, BEDDING AND BACKFILL SHALL COMPLY WITH CITY OF PUYALLUP STANDARD DETAIL 06.01.01 REQUIREMENTS. SEE CITY OF PUYALLUP STANDARD DETAIL 06.01.01/C17.3W.
- 3. ALL SEWER MANHOLE COMPONENTS SHALL BE PER CITY OF PUYALLUP STANDARD DETAILS SANITARY SEWER MANHOLE: 04.01.01/C17.3W 06.01.02/C17.4W FRAME AND COVER: 06.01.03/C17.4W STEPS AND HANDHOLD:
- 4. ADJUST OR SET FRAMES OF EXISTING AND PROPOSED UTILITY GRATES AND COVERS AS NECESSARY TO MATCH THE CROSS SLOPE OF THE PROPOSED FINISHED GRADE AND SUCH THAT NO PONDING OCCURS AROUND UTILITY GRATES AND COVERS.
- COMPLY WITH WATER MAIN CLEARANCE REQUIREMENTS IN PER CITY OF PUYALLUP STANDARD DETAIL 03.01.03-1/C17.2W AND CITY OF PUYALLUP STANDARD DETAIL 03.01.03-2/C17.2W.
- 6. NOT USED
- THE MINIMUM DISTANCE BETWEEN WATER AND SEWER LINES SHALL BE 10 FEET HORIZONTALLY AND 18" VERTICALLY. IF THIS CRITERION CANNOT BE MET, THE CONTRACTOR SHALL ISOLATE SEWER AND WATER LINES BY ENCASEMENT, SHIELDING, OR OTHER APPROVED METHODS.
- 8. CONTRACTOR SHALL USE HORIZONTAL AND VERTICAL DATUM AS OUTLINED ON SHEET C12.0W.
- CONTRACTOR SHALL POTHOLE EX UTILITIES IN FRONT OF MAIN BUILDING PRIOR TO INSTALLATION OF NEW UTILITIES. REPORT HORIZONTAL AND VERTICAL POSITIONS OF SANITARY SEWER TO ENGINEER. ALLOW 3 BUSINESS DAYS TIME FOR ENGINEER DESIGN VERIFICATION PRIOR TO COMMENCING SANITARY SEWER WORK
- 10. CONTRACTOR SHALL LOCATE HORIZONTAL AND VERTICAL POSITION OF EXISTING SEWER SERVICES. UTILIZE GPR DIE TESTING, TRACER WIRE AND POTHOLE EXCAVATION METHODS.
- 11. SIDE SEWER SERVICE INSTALLATION PER DETAIL 04.03.02/C17.3W UNLESS OTHERWISE STATED.

KEY NOTES

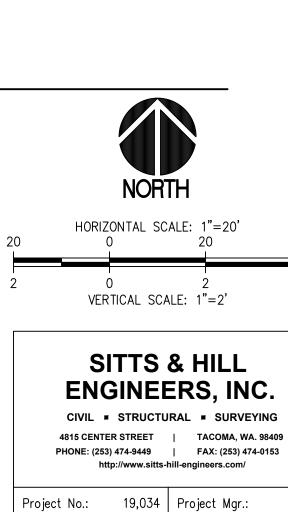
- 1 CONNECT TO EXISTING 15" SEWER MAIN.
- 2 TAPPING TEE, SEE CITY OF PUYALLUP STANDARD DETAIL 04.02.01/C17.3W.
- 3 NOT USED
- $4 \rightarrow 6$ " SIDE SEWER PIPE, SEE PLANS FOR LENGTH.
- 5 TYPE 1 48" SEWER MANHOLE, SEE CITY OF PUYALLUP STANDARD DETAIL 04.01.01/C17.3W
- 6 SIDE SEWER SAMPLING STATION, SEE CITY OF PUYALLUP STANDARD DETAIL 04.03.04/C17.3W
- $7 \rightarrow 6$ " CLEANOUT, SEE DETAIL C3/C17.3W.



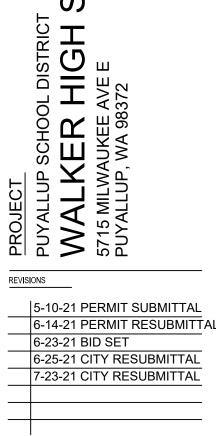
- TOP OF 8" SEWER=44.30 $\langle 2 \rangle$ ESTIMATED BTM OF EX 4" GAS=52.7 SEPARATION=8.40'
- TOP OF 6" SEWER=45.73 $\langle 3 \rangle$ estimated btm of ex 2" water=51.45 SEPARATION=5.71'



Know what's below. **Call** before you dig.



Proj. Engineer: S.A.J. Proj. Drafter: S.A.J



S

TILITIE:

 \supset

SITE

Р

Ο

 \mathbf{O}

S



DRAWN BY:

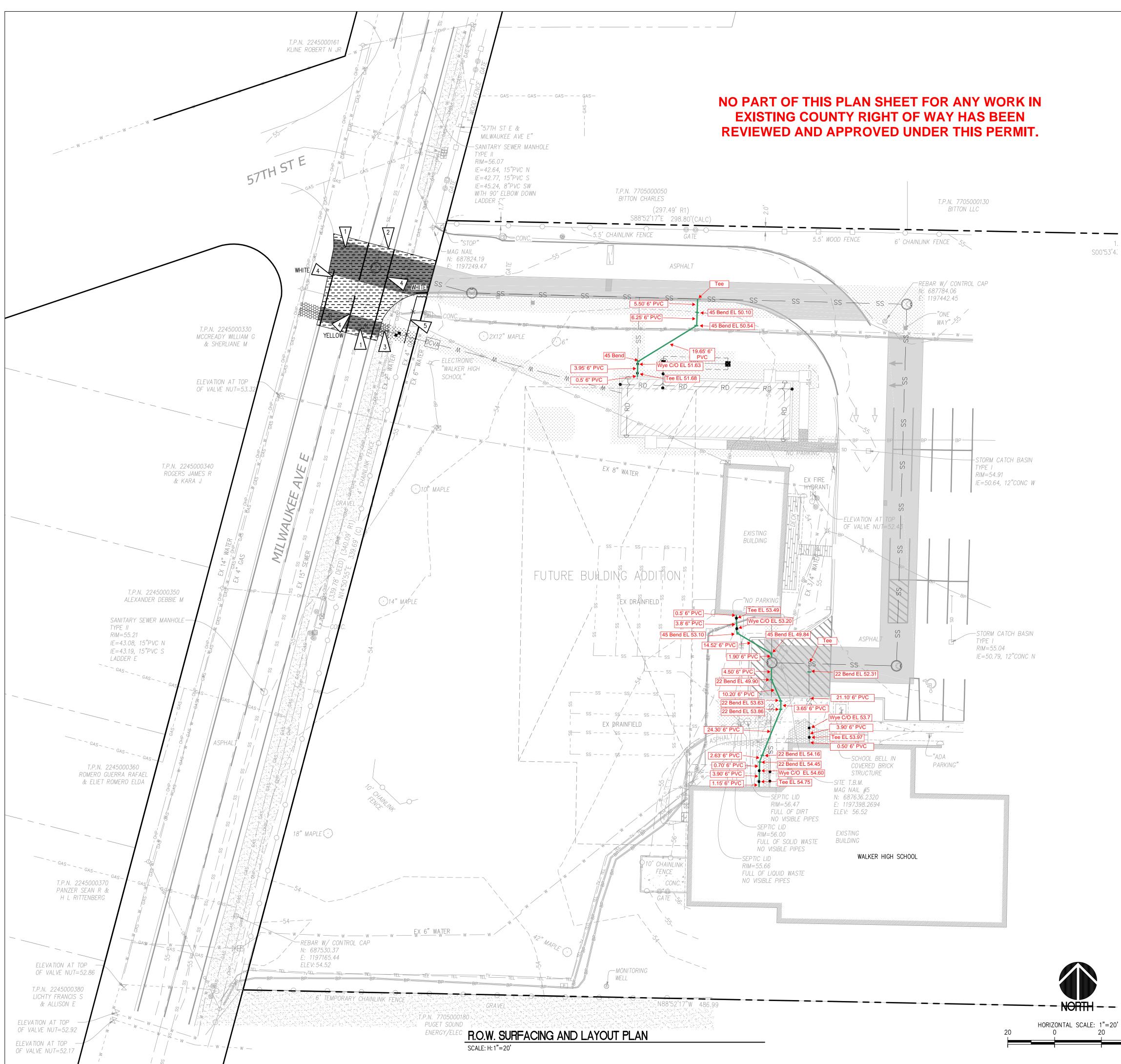
40

REVIEWED BY: SHEET TITLE SITE UTILITIES

SANITARY SEWER PLAN AND PROFILE 1







PRIVATE IMPROVEMENTS

- DEVELOPMENT ENGINEER PIERCE COUNTY ORDINANCE NUMBER
- CONTACT THE AREA INSPECT TO COORDINATE THE PRE-CONSTRUCTION MEETIN AND COUNTY INSPECTIONS. PRE-CONSTRUCTION M ALL BE REQUESTED AT LEAST 48-HOURS IN ADVANCE OF THE START OF

DATE

- CONSTRUCTION. APPOINT A CERTIFIED EROS T CONTROL LEAD WHO SHALL BE PROVIDED A COPY OF THE SWPPP, EROSION CONTROL
- PLAN & INSPECTION SCHEE 8. FAILURE TO EQUIRED INSPECTIONS MAY ENDANGER OR DELAY PROJECT APPROVAL.
- ORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-OF-WAY PERMIT FROM PIERCE COUNTY PLANNING AND PUBLIC

LEGEND

| PROPOSED FEATURES | |
|-------------------|------------------|
| X | CHAINLINK FENCE |
| | PAVEMENT STRIPIN |
| | GRASS RESTORATIO |
| | HEAVY DUTY ASPH |
| | 2" HMA OVERLAY |

ENCE TRIPING ORATION ASPHALT RESTORATION

GENERAL NOTES

- 1. SEE APPLICABLE PIERCE COUNTY GENERAL CIVIL NOTES ON SHEET C1.0W
- 2. SEE SHEETS 1–13 FOR PRIVATE ONSITE IMPROVEMENTS
- CONSTRUCTION ACCESS SHALL BE FROM EXISTING ASPHALT SURFACES. IF ADDITIONAL MEASURES ARE NEEDED TO PREVENT TRACKING OF SEDIMENT ONTO PUBLIC ROADS. THE CONTRACTOR SHALL INSTALL A CONSTRUCTION ENTRANCE PER DETAIL B4/C6.0W.
- 4. CONTRACTOR SHALL COVER ALL OPEN TRENCHES AT END OF WORK DAY.
- CONTRACTOR TO PROTECT EXISTING FEATURES BEYOND THE LIMITS OF WORK AND REPAIR ANY DAMAGE AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE ACCESS AND KEEP ONE LANE OF ONSITE ACCESS CLEAR AT ALL TIMES DURING CONSTRUCTION.
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER IMMEDIATELY IF THERE ARE ANY DISCREPANCIES AFFECTING THE NEW CONSTRUCTION.
- SEE ELECTRICAL PLAN FOR POWER AND LOW VOLTAGE CONNECTION REQUIREMENTS.
- CONTRACTOR SHALL PREPARE, SUBMIT AND OBTAIN AN APPROVED TRAFFIC CONTROL PLAN FROM PIERCE COUNTY PRIOR TO COMMENCING WORK IN RIGHT-OF-WAY.
- 10. CONTRACTOR SHALL RESTORE ALL SURFACES DISTURBED AS A RESULTS OF CONSTRUCTION ACTIVITIES, EXCLUDING THE BUILDING, GRAVEL PAD, ASPHALT OR GRAVEL SURFACES, AND LANDINGS. PROVIDE 8" DEPTH COMPOST AMENDED TOPSOIL PER DETAIL D1/C6.1W PRIOR TO SEEDING.
- 11. CONTRACTOR SHALL USE HORIZONTAL AND VERTICAL DATUM AS OUTLINED ON SHEET C2.0W
- 12. COMPLY WITH PIERCE COUNTY ROW PERMIT REQUIREMENTS

KEY NOTES

1 HEAVY DUTY ASPHALT PAVEMENT RESTORATION, SEE DETAIL A1/C6.3W

- 2 2" AC OVERLAY, SEE DETAIL A3/C6.3W
- 3 RESTORE DISTURBED LANDSCAPE AREA, SEE DETAIL D1/C6.1W & C4/C6.3W
- 4 PAVEMENT STRIPING, SEE PLANS FOR COLOR, SEE DETAIL D3/C6.3W
- 5 REINSTALL SALVAGED 4' HIGH CHAINLINK FENCE, SEE DETAIL C2/C6.3W



| 811. | ENC CIVIL = 4815 CENTER PHONE: (253) | STRUCTU STRUCTU R STREET 474-9449 | & HILL ERS, INC IRAL = SURVEYIN TACOMA, WA. 98 FAX: (253) 474-01 hill-engineers.com/ | IG 409 |
|----------------------------|---|--|---|-----------|
| Know what's below . | Project No.: | 19,034 | Project Mgr.: | R.H. |
| Call before you dig. | Proj. Engineer: | S.A.J. | Proj. Drafter: | S.A.J. |

IF SHEET MEASURES LESS THAN 24"X36", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY

| bCC | T 253.627.4367 F 253.627.4395 WWW BCRADESIGN CC |
|------|---|
| | T 253 627 4367 F 2 |
| RD C | • |



Ш ORTABL Δ \mathbf{O} \cap SCH PROJECT PUYALLUP SCHOOL DISTRICT WALKER HIGH S 5715 MILWAUKEE AVE E REVISIONS

| | 5-10-21 | PERMIT SUBMITTAL | |
|------|----------|------------------|-----|
| | 6-14-21 | PERMIT RESUBMITT | AL |
| | 6-23-21 | BID SET | |
| | 7-09-21 | COUNTY RESUBMIT | TAL |
| | 8-05-21 | COUNTY RESUBMIT | TAL |
| | | | |
| | | | |
| | | | |
| | | | |
| ATE | | | |
| .19 | .2021 | | |
| CRAI | NO. | | |
| 04 | ~~ ~~ ~~ | | |

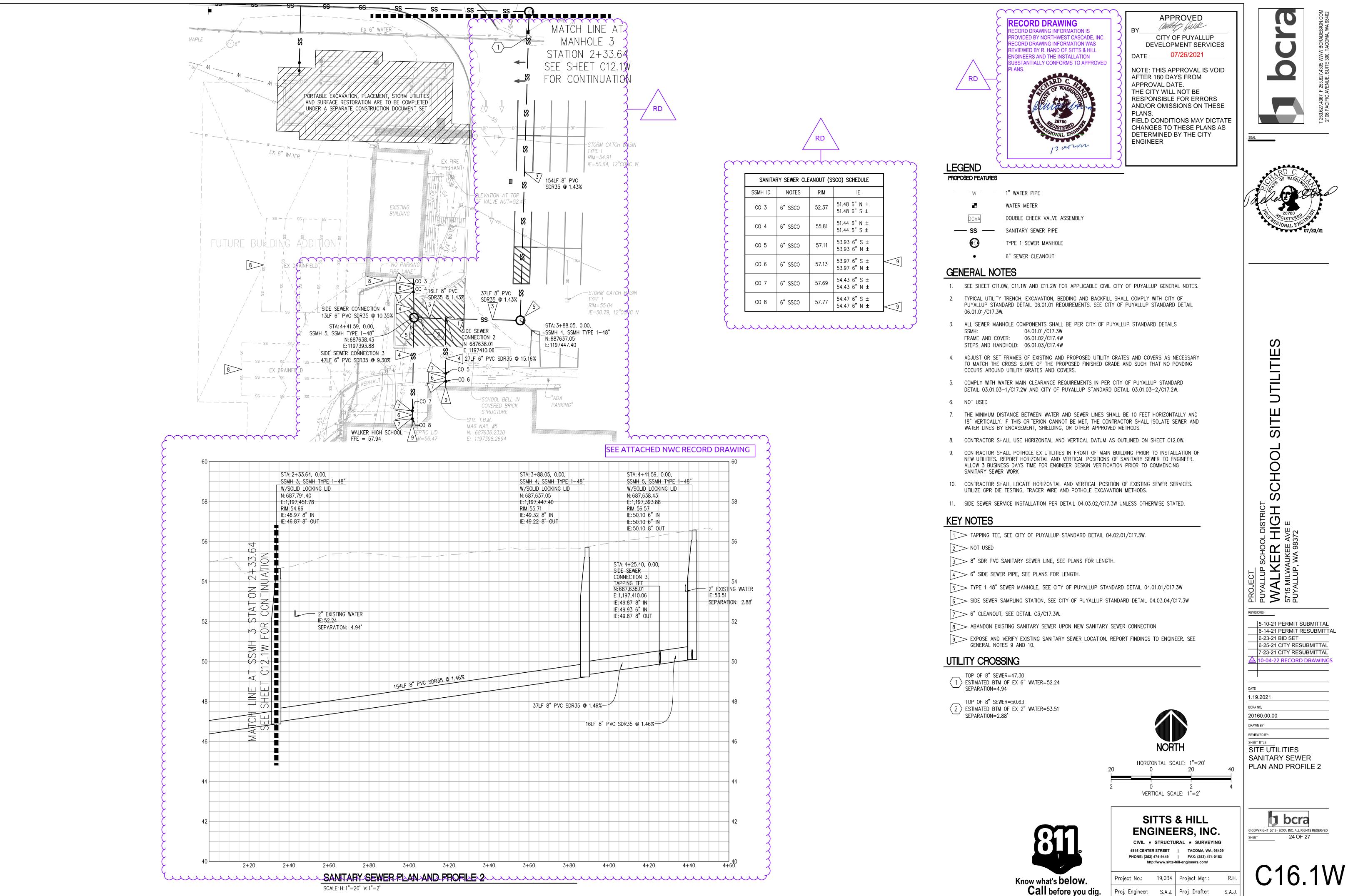
20160.00.00 DRAWN BY: REVIEWED BY:

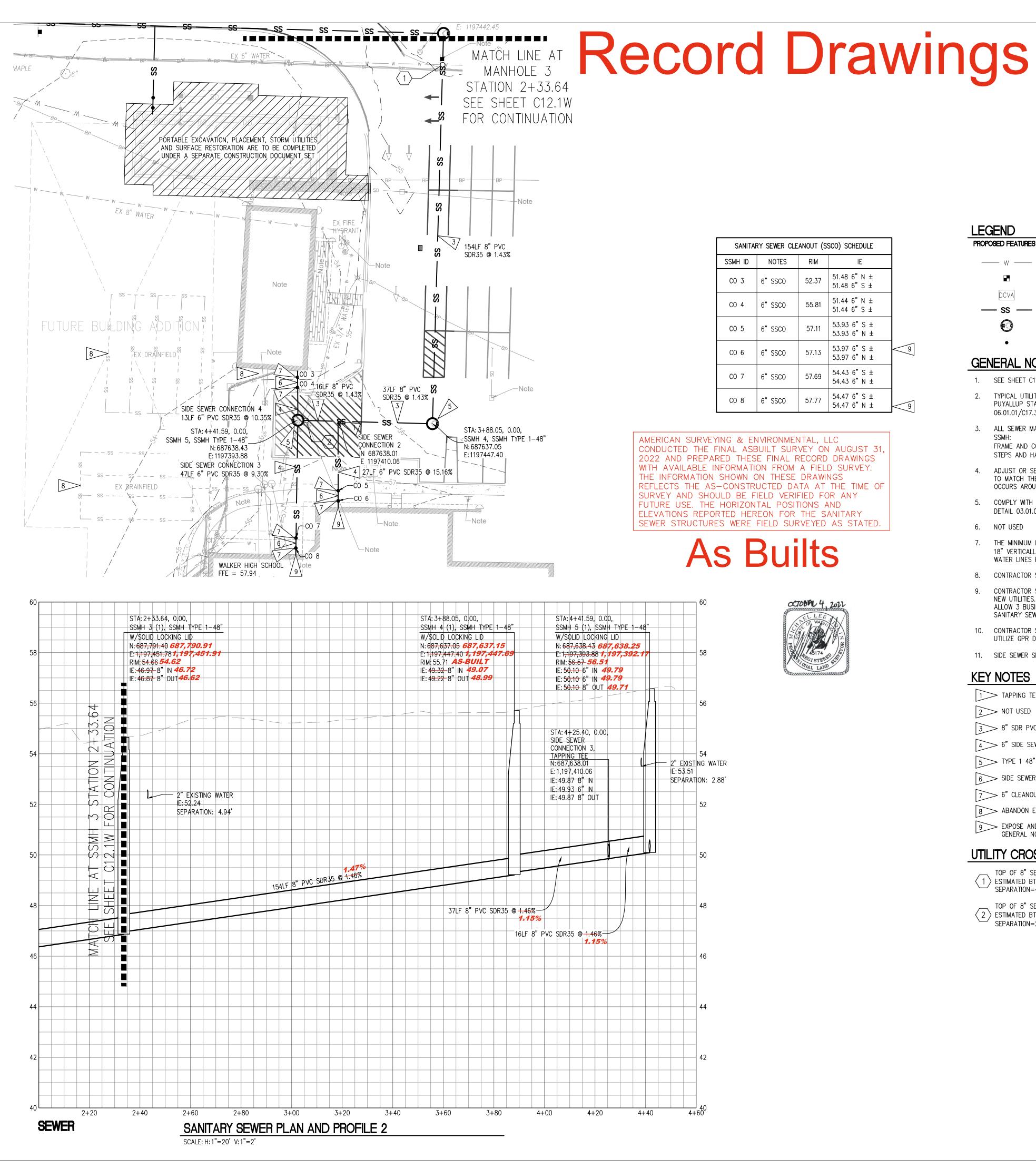
SHEET TITLE

R.O.W. SURFACING AND LAYOUT PLAN



C8.2W





PRIVATE IMPROVEMENTS

APPOINT A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD WHO SHALL

FAILURE TO OBTAIN REQUIRED INSPECTIONS MAY ENDANGER OR DELAY

A. ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-OF-

, THE AREA INSPECTOR. AT 253-798-

DEVELOPMENT ENGINEER

PLAN & INSPECTION SCHEDULE.

CONTACT

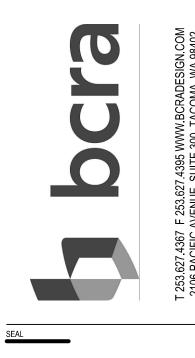
CONSTRUCTION.

PIERCE COUNTY ORDINANCE NUMBER

APPROVED PERMIT #

CITY OF PUXALLUP DEVELOPMENT ENGINEERING DATE OOR DINATE THE PRE CONSTRUCTION MEE AND COUNTY INSPECTIONS. PRE-CONSTRUCTION MEETING SHALL BE REQUES D AT LEAST 48-HOURS IN ADVANCE OF THE START OF NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE THE CITY WILL NOT BE CRESPONSIBLE FOR ERRORS Y FAND / ORM OMISSIONS PONNTHESEPUBL PLANS.

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.



LEGEND PROPOSED FEATURES

| W | 1" WATER PIPE |
|--------|-----------------------------|
| | WATER METER |
| DCVA | DOUBLE CHECK VALVE ASSEMBLY |
| — ss — | SANITARY SEWER PIPE |
| Ø | TYPE 1 SEWER MANHOLE |
| • | 6" SEWER CLEANOUT |

GENERAL NOTES

- SEE SHEET C11.0W, C11.1W AND C11.2W FOR APPLICABLE CIVIL CITY OF PUYALLUP GENERAL NOTES.
- TYPICAL UTILITY TRENCH, EXCAVATION, BEDDING AND BACKFILL SHALL COMPLY WITH CITY OF PUYALLUP STANDARD DETAIL 06.01.01 REQUIREMENTS. SEE CITY OF PUYALLUP STANDARD DETAIL 06.01.01/C17.3W.
- 3. ALL SEWER MANHOLE COMPONENTS SHALL BE PER CITY OF PUYALLUP STANDARD DETAILS SSMH: 04.01.01/C17.3W FRAME AND COVER: 06.01.02/C17.4W STEPS AND HANDHOLD: 06.01.03/C17.4W
- 4. ADJUST OR SET FRAMES OF EXISTING AND PROPOSED UTILITY GRATES AND COVERS AS NECESSARY TO MATCH THE CROSS SLOPE OF THE PROPOSED FINISHED GRADE AND SUCH THAT NO PONDING OCCURS AROUND UTILITY GRATES AND COVERS.
- 5. COMPLY WITH WATER MAIN CLEARANCE REQUIREMENTS IN PER CITY OF PUYALLUP STANDARD DETAIL 03.01.03-1/C17.2W AND CITY OF PUYALLUP STANDARD DETAIL 03.01.03-2/C17.2W.
- 6. NOT USED
- THE MINIMUM DISTANCE BETWEEN WATER AND SEWER LINES SHALL BE 10 FEET HORIZONTALLY AND 18" VERTICALLY. IF THIS CRITERION CANNOT BE MET, THE CONTRACTOR SHALL ISOLATE SEWER AND WATER LINES BY ENCASEMENT, SHIELDING, OR OTHER APPROVED METHODS.
- CONTRACTOR SHALL USE HORIZONTAL AND VERTICAL DATUM AS OUTLINED ON SHEET C12.0W.
- CONTRACTOR SHALL POTHOLE EX UTILITIES IN FRONT OF MAIN BUILDING PRIOR TO INSTALLATION OF NEW UTILITIES. REPORT HORIZONTAL AND VERTICAL POSITIONS OF SANITARY SEWER TO ENGINEER. ALLOW 3 BUSINESS DAYS TIME FOR ENGINEER DESIGN VERIFICATION PRIOR TO COMMENCING SANITARY SEWER WORK
- 10. CONTRACTOR SHALL LOCATE HORIZONTAL AND VERTICAL POSITION OF EXISTING SEWER SERVICES. UTILIZE GPR DIE TESTING, TRACER WIRE AND POTHOLE EXCAVATION METHODS.
- 11. SIDE SEWER SERVICE INSTALLATION PER DETAIL 04.03.02/C17.3W UNLESS OTHERWISE STATED.

KEY NOTES

1 TAPPING TEE, SEE CITY OF PUYALLUP STANDARD DETAIL 04.02.01/C17.3W.

2 NOT USED

- 3 > 8" SDR PVC SANITARY SEWER LINE, SEE PLANS FOR LENGTH.
- $4 \rightarrow 6$ " SIDE SEWER PIPE, SEE PLANS FOR LENGTH.
- 5 TYPE 1 48" SEWER MANHOLE, SEE CITY OF PUYALLUP STANDARD DETAIL 04.01.01/C17.3W
- 6 SIDE SEWER SAMPLING STATION, SEE CITY OF PUYALLUP STANDARD DETAIL 04.03.04/C17.3W
- $7 \rightarrow 6$ " CLEANOUT, SEE DETAIL C3/C17.3W.
- 8 ABANDON EXISTING SANITARY SEWER UPON NEW SANITARY SEWER CONNECTION

9 EXPOSE AND VERIFY EXISTING SANITARY SEWER LOCATION. REPORT FINDINGS TO ENGINEER. SEE GENERAL NOTES 9 AND 10.

UTILITY CROSSING

| TOP OF 8" SEWER=47.30 ESTIMATED BTM OF EX 6" WATER=52.24 SEPARATION=4.94 | DAT |
|---|--|
| TOP OF 8" SEWER=50.63 ESTIMATED BTM OF EX 2" WATER=53.51 SEPARATION=2.88' | 1.1 BCR 20 DRA REV SHE |
| | NORTH HORIZONTAL SCALE: 1"=20' 20 0 20 40 2 0 2 4 VERTICAL SCALE: 1"=2' |
| 811. | SITTS & HILL ENGINEERS, INC. CIVIL - STRUCTURAL - SURVEYING 4815 CENTER STREET TACOMA, WA. 98409 PHONE: (253) 474-9449 FAX: (253) 474-0153 http://www.sitts-hill-engineers.com/ |
| Know what's below. Call before you dig. | Project No.:19,034Project Mgr.:R.H.Proj. Engineer:S.A.J.Proj. Drafter:S.A.J. |

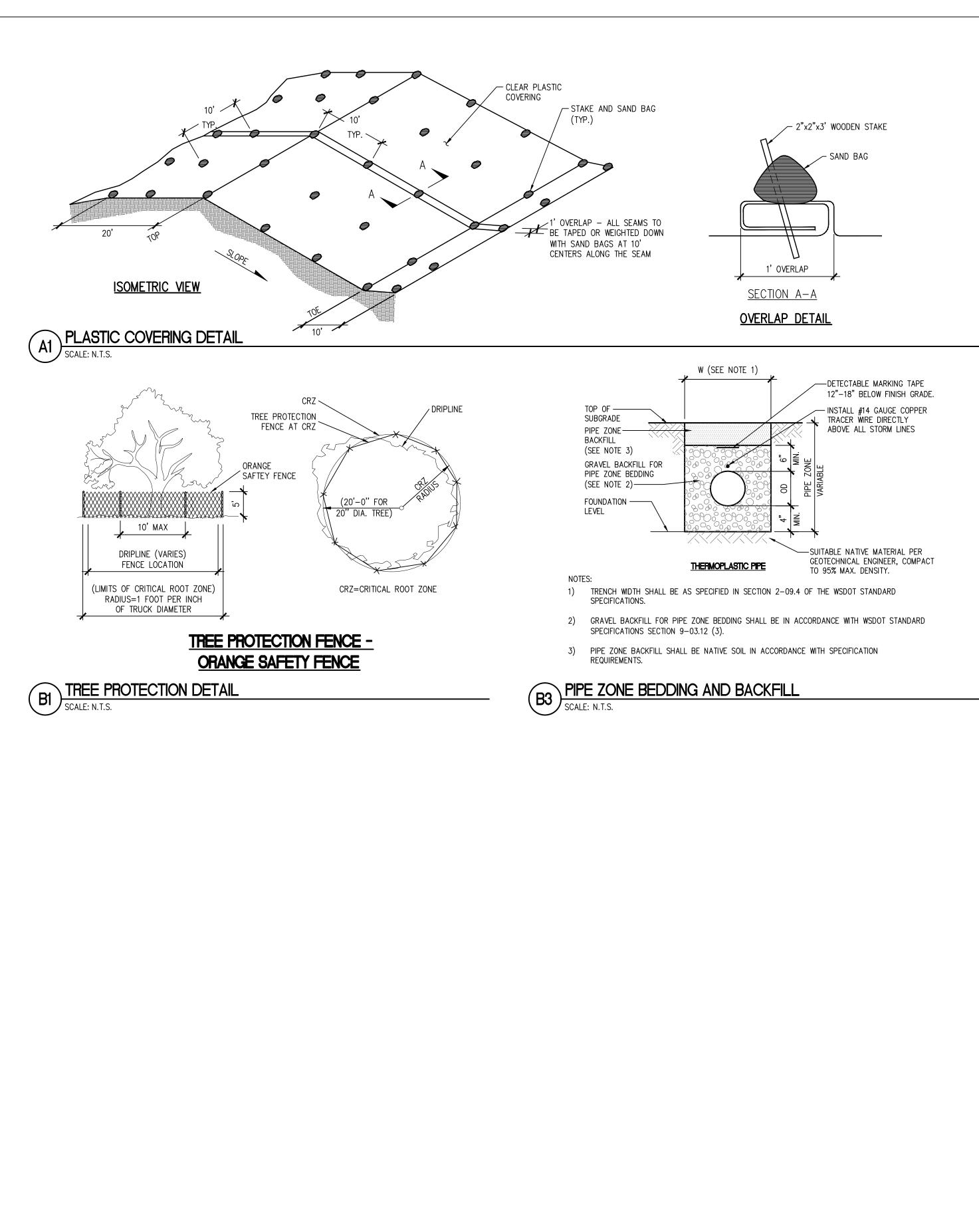
IF SHEET MEASURES LESS THAN 24"X36", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY

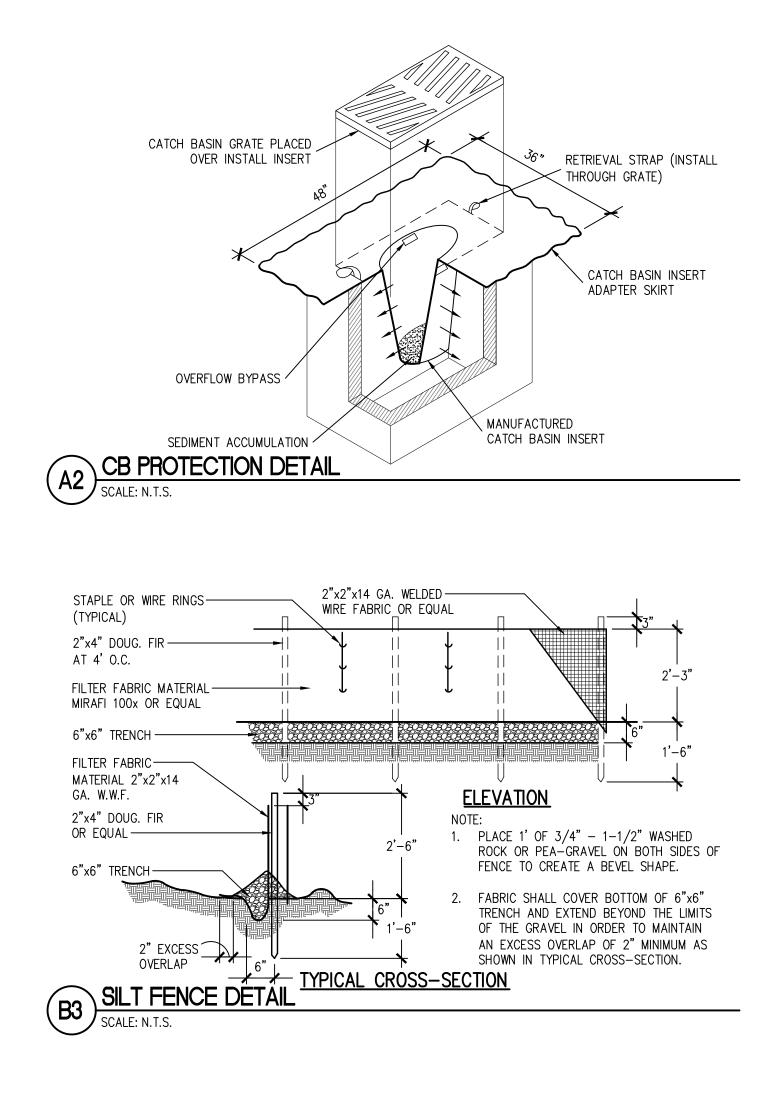
| | PUYALLUP SCHOOL DISTRICT | WALKER HIGH SCHOOL SITE UTILITIES | 5715 MILWAUKEE AVE E | PUYALLUP, WA 98372 | | | | |
|------|--------------------------|--|----------------------|--------------------|------------|-------------|-------------|--|
| EVIS | | | | | | | | |
| | 6-14 6-23 6-25 | D-21 P 4-21 P 3-21 B 5-21 C 3-21 C | ERN ID S ITY | /IT ET RE | RES SUE | SUB BMIT | MITT TAL | |
| ATE | | | | | | | | |
| .19 | .202 | 21 | | | | | | |
| CRA | NO. | | | | | | | |
| 01 | 60.0 | 0.00 | | | | | | |

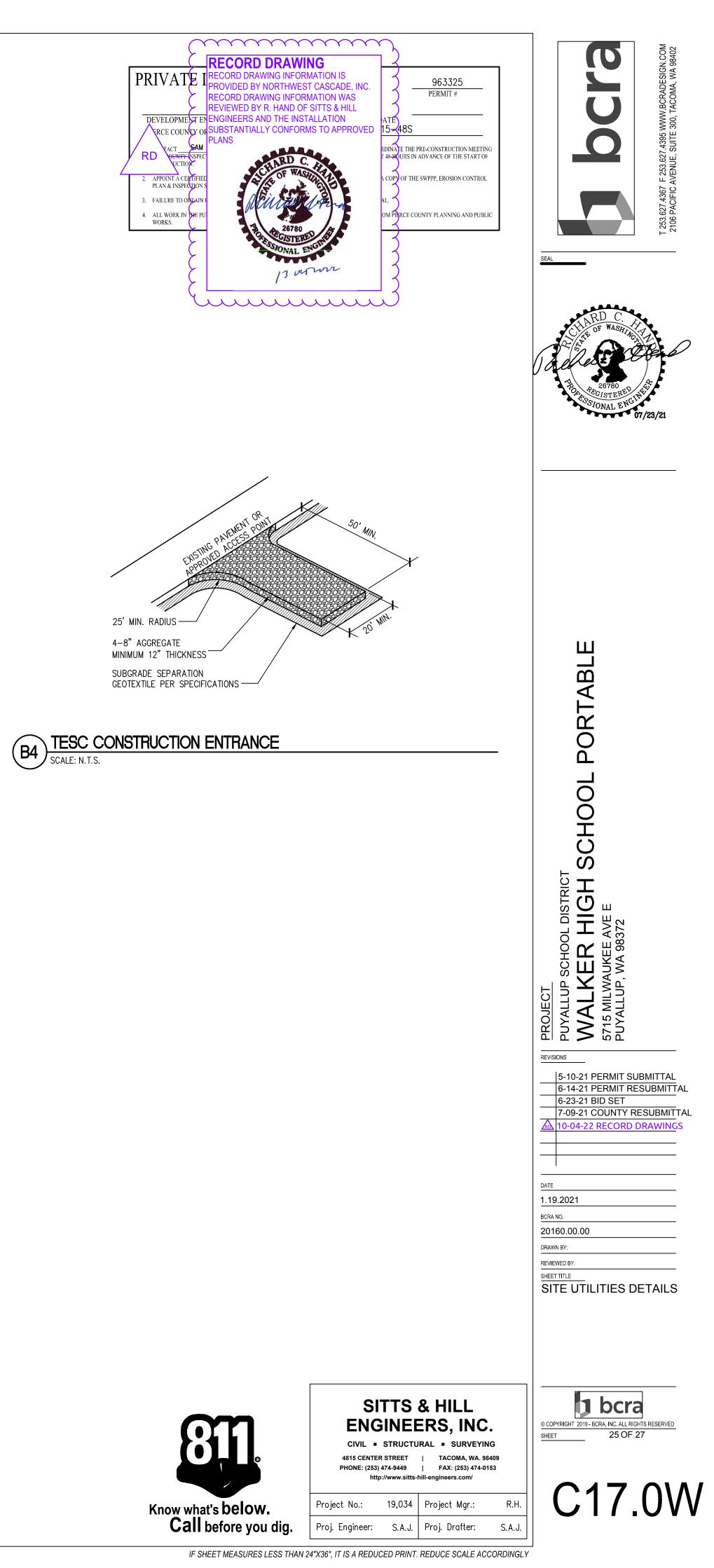
REVIEWED BY: HEET TITLE SITE UTILITIES SANITARY SEWER **PLAN AND PROFILE 2**

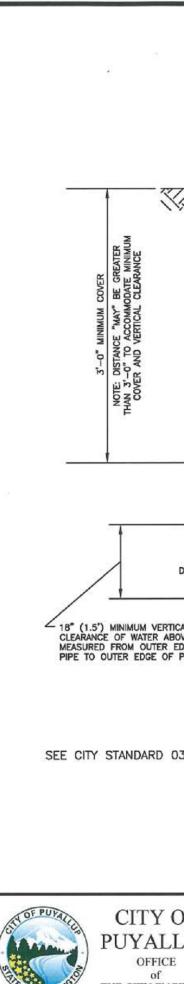


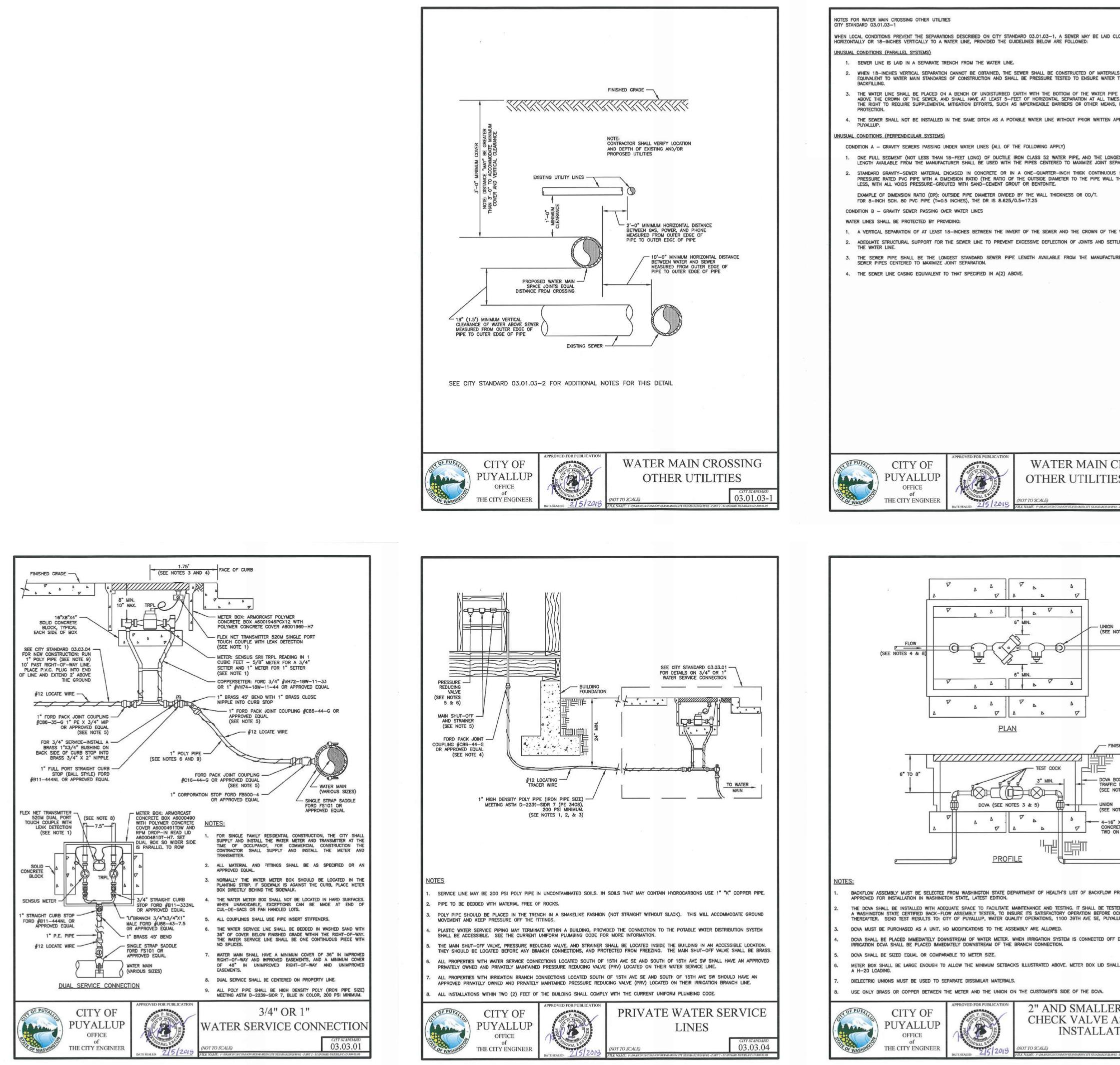
C16.1W



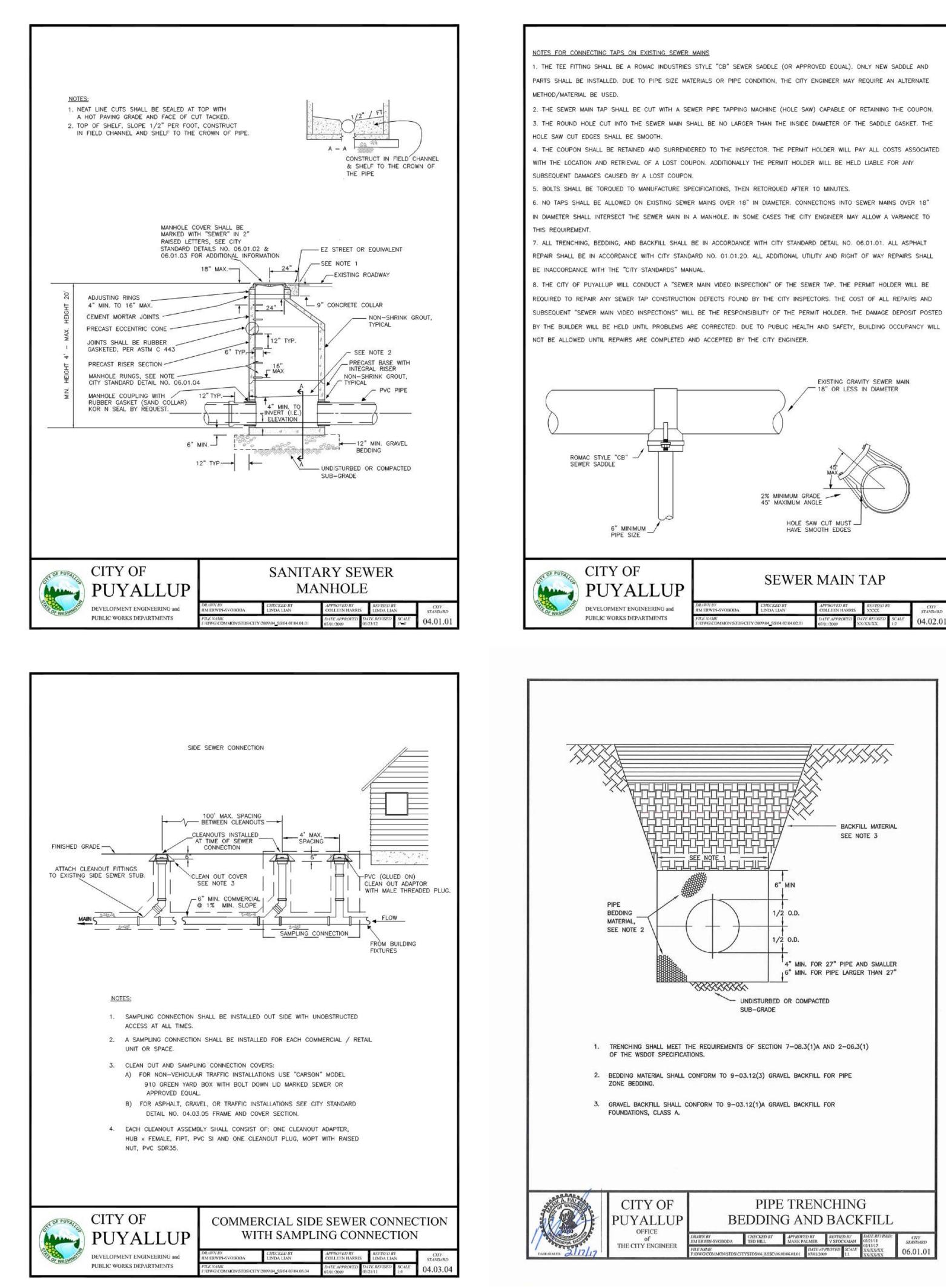




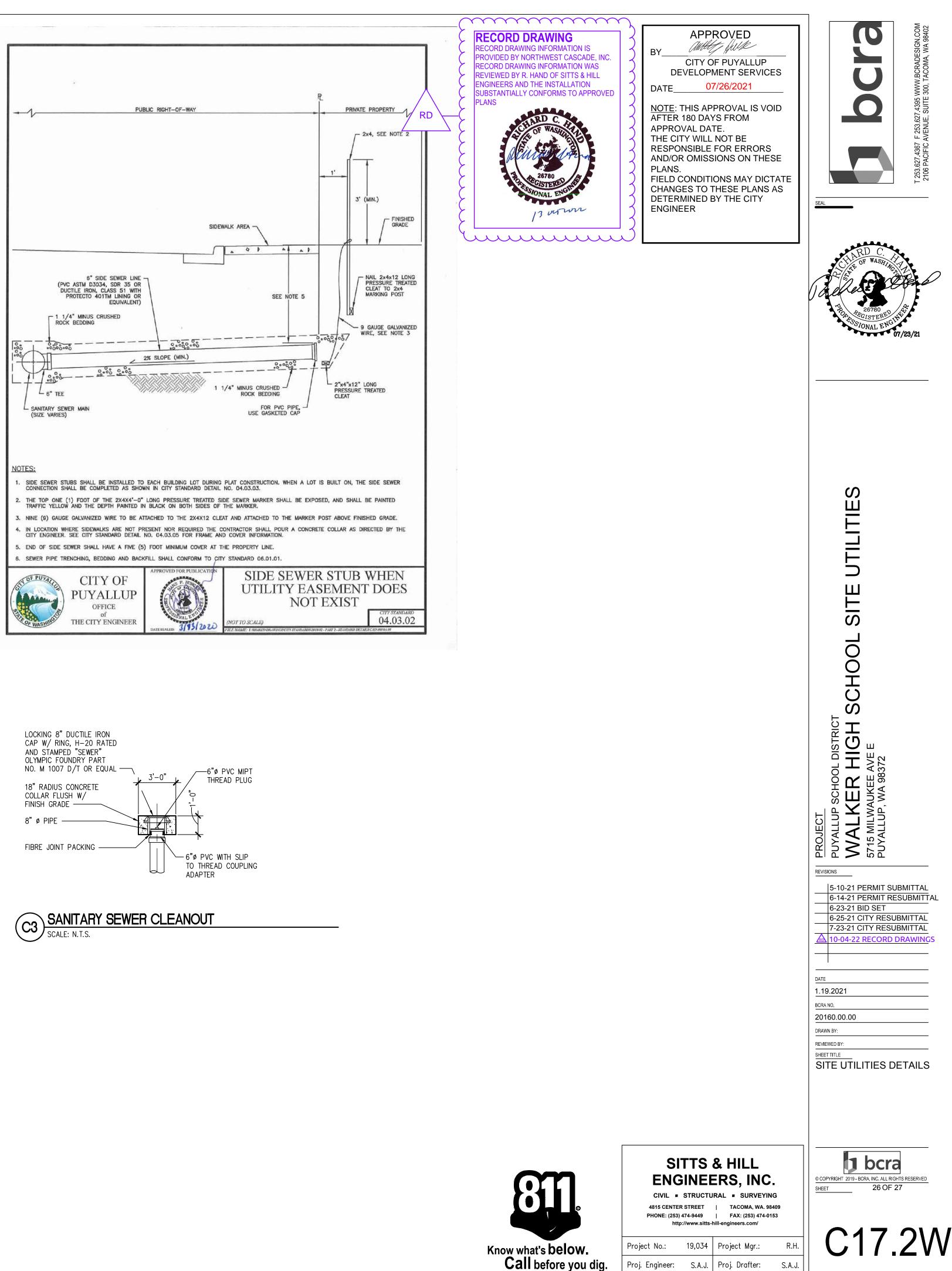


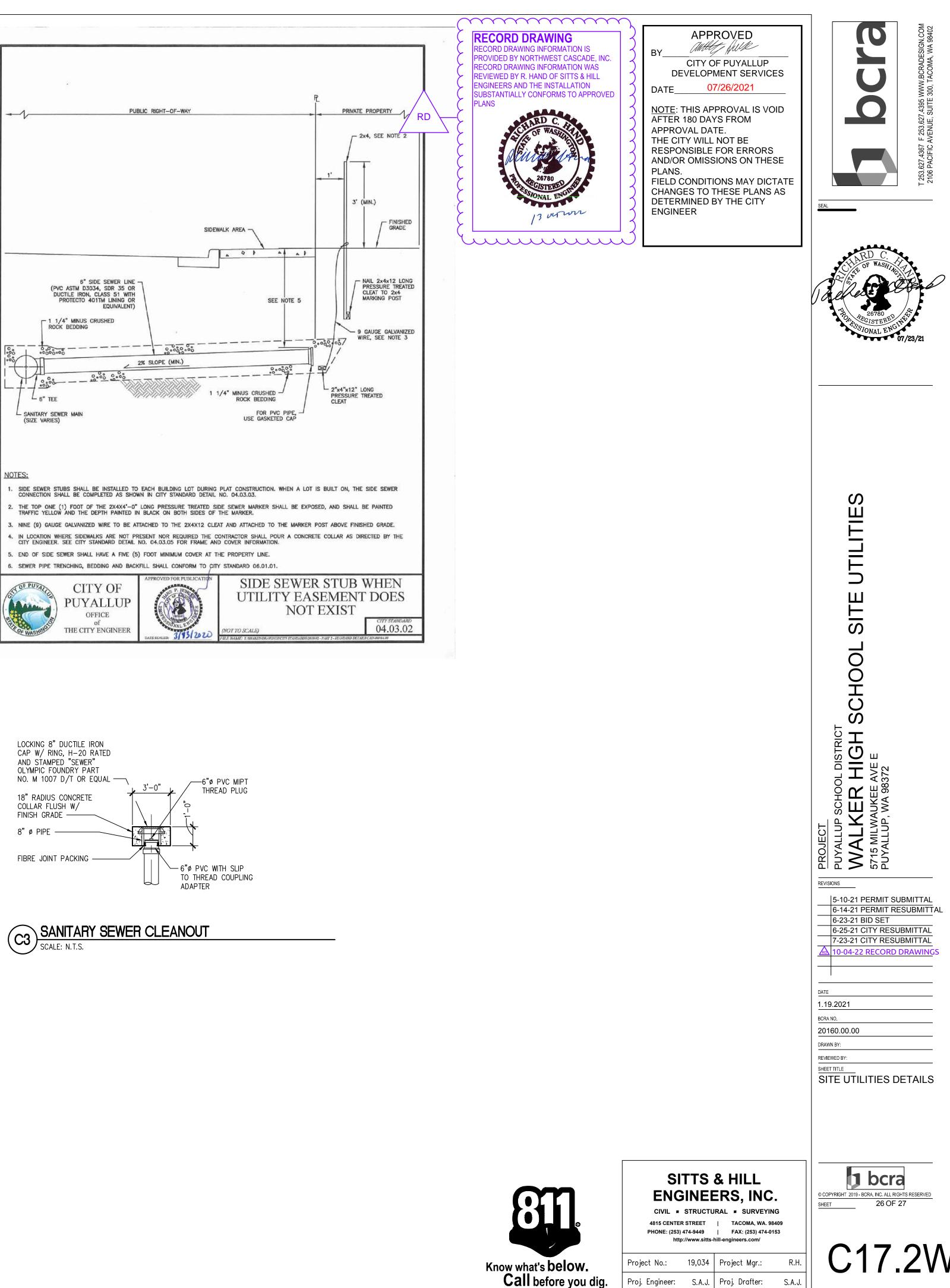


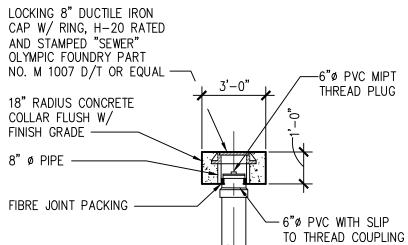
| OSER THAN 10-FEET | RECORD DRAWING RECORD DRAWING INFORMATION IS PROVIDED BY NORTHWEST CASCADE, INC. RECORD DRAWING INFORMATION WAS | APPROVED BY | 1 1 |
|--|--|--|---|
| | REVIEWED BY R. HAND OF SITTS & HILL ENGINEERS AND THE INSTALLATION SUBSTANTIALLY CONFORMS TO APPROVED | DEVELOPMENT SERVICES DATE 07/26/2021 | 5 WWW.BCRA |
| S AND JOINTS THAT ARE TIGHTNESS PRIOR TO RD | PLANS. | NOTE: THIS APPROVAL IS VOIDAFTER 180 DAYS FROMAPPROVAL DATE. | 53.627,439! NUE, SUIT |
| AT LEAST 18-INCHES 5. THE CITY RESERVES FOR ADDITIONAL | | THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS | 1367 F 2 |
| PROVAL BY THE CITY OF | The second states and second s | AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE | T 253.627.2106 PAC |
| ST STANDARD SEWER PIPE ARATION. | 13 verver | CHANGES TO THESE PLANS AS DETERMINED BY THE CITY ENGINEER | SEAL |
| STEEL, DUCTILE IRON, OR HICKNESS) OF 18 OR | ¿L | | - PARA |
| = | | | CHARD C. CHARD OF WASHING |
| WATER LINE. ING ON AND BREAKING OF | | | Jacker 26780 |
| ER WITH THE WATER AND | | | POREGISTERED 143 SSIONAL ENGINE 07/23/21 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | UTILITIES |
| | | | |
| ROSSING S (NOTES) | | | |
| CITY STANDARD 03.01.03-2 | | | SITE |
| PART 2 - STANDARD DETAILS CAD 309 03.01 | | | |
| | | | CHOOL |
| | | | U T C T |
| | | | H S |
| DTE 7) | | | |
| 3 | | | SCHOOL DI ER H UKEE AVE WA 98372 |
| | | | |
| | | | PROJECT PUYALLU VVAL 5715 MILV PUYALLU |
| | | | REVISIONS |
| SHED GRADE | | | 5-10-21 PERMIT SUBMITTAL 6-14-21 PERMIT RESUBMITTAL 6-23-21 BID SET 6-25-21 CITY RESUBMITTAL |
| DX: FOGTITE 3 WITH SOLID LID, OR APPROVED EQUAL. ITES 2 & 6) | | | 7-23-21 CITY RESUBMITTAL |
| TES 7 & 8) | | | DATE |
| X 8" X 4" SOLID TE BLOCKS, TYPICAL N EACH SIDE OF BOX | | | 1.19.2021 BCRA NO. |
| 3 | | | 20160.00.00 DRAWN BY: |
| REVENTION ASSEMBLIES | | | REVIEWED BY: SHEET TITLE SITE UTILITIES DETAILS |
| ED AFTER INSTALLATION, BY CUPANCY, AND ANNUALLY JUP, WA 98374. | | | |
| DOMESTIC WATER LINE, | | | |
| l be a traffic LID with | | SITTS & HILL | 1 bcra |
| | \mathbf{n} | ENGINEERS, INC. | © COPYRIGHT 2019 - BCRA, INC. ALL RIGHTS RESERVED SHEET 25 OF 27 |
| R DOUBLE SSEMBLY | | CIVIL STRUCTURAL SURVETING 4815 CENTER STREET TACOMA, WA. 98409 PHONE: (253) 474-9449 FAX: (253) 474-0153 http://www.sitts-hill-engineers.com/ | |
| CITY STANDARD 03.04.01 | Know what's below. | Project No.: 19,034 Project Mgr.: R.H. | C17.1W |
| PART 2 - STANDARD DETAILS/CAD/30603.04 | Call before you dig. | Proj. Engineer: S.A.J. Proj. Drafter: S.A.J. | |



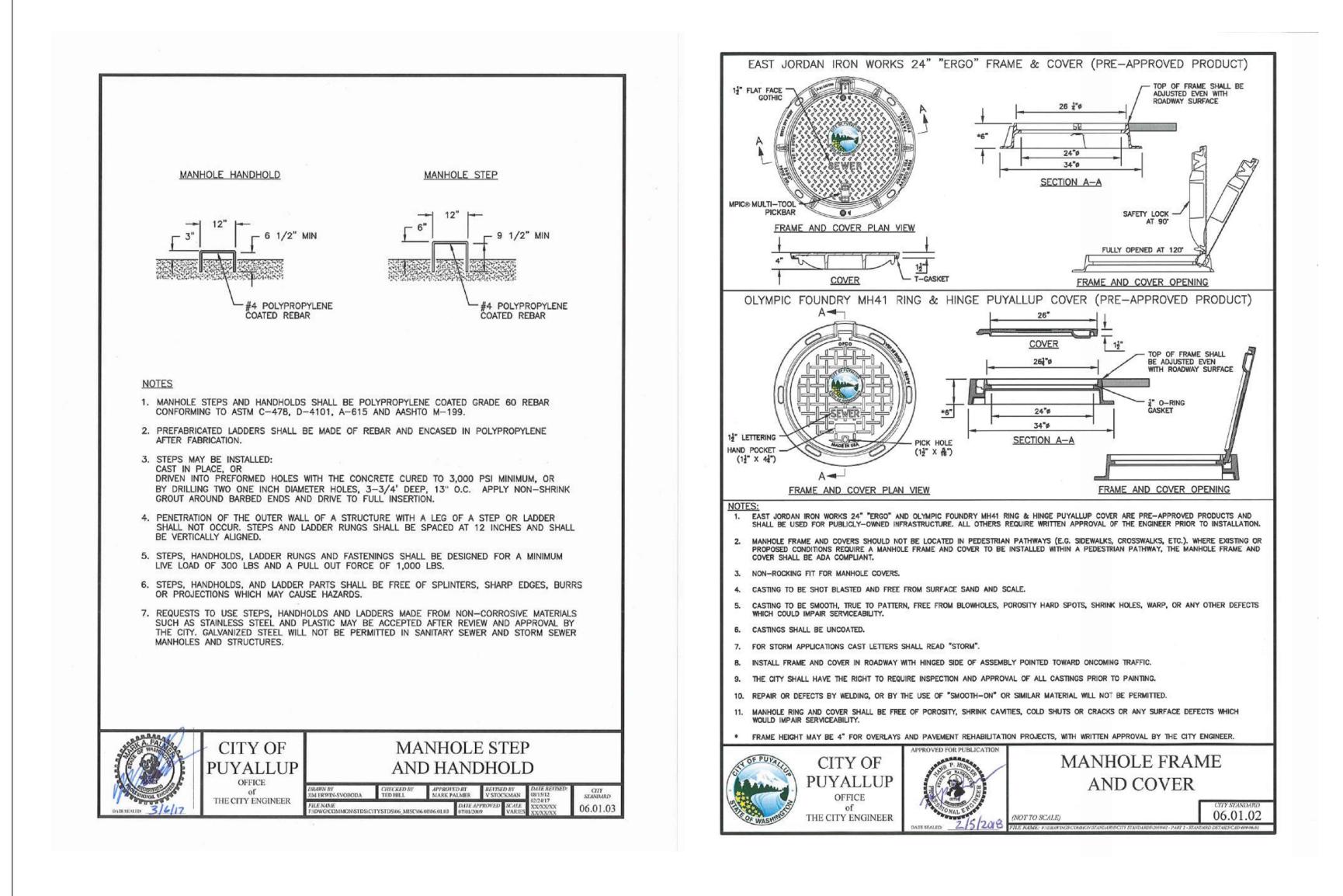


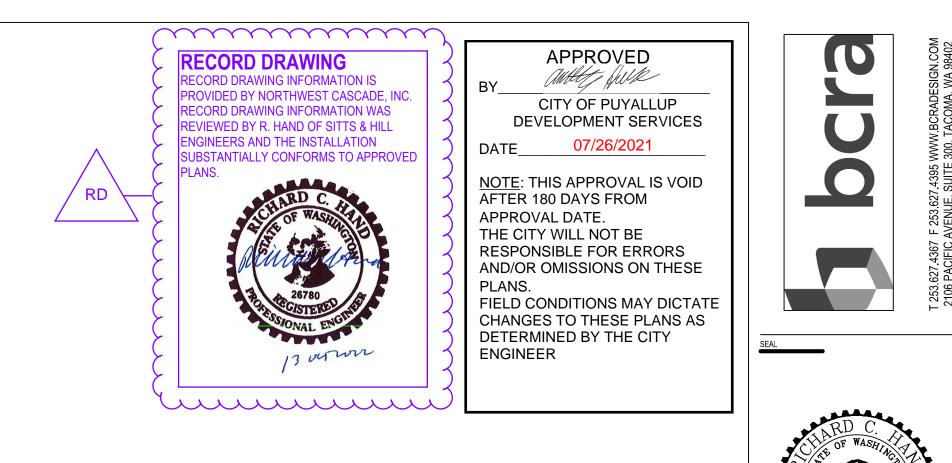


















Proj. Engineer: S.A.J. Proj. Drafter: S.A.J.

| 1 bcra | |
|---|----------|
| © COPYRIGHT 2019 - BCRA, INC. ALL RIGHTS RESERVED | |
| SHEET | 27 OF 27 |
| | |
| | |

SHEET TITLE

20160.00.00

DRAWN BY:

C17.3W