



Know what's below. Call before you dig.

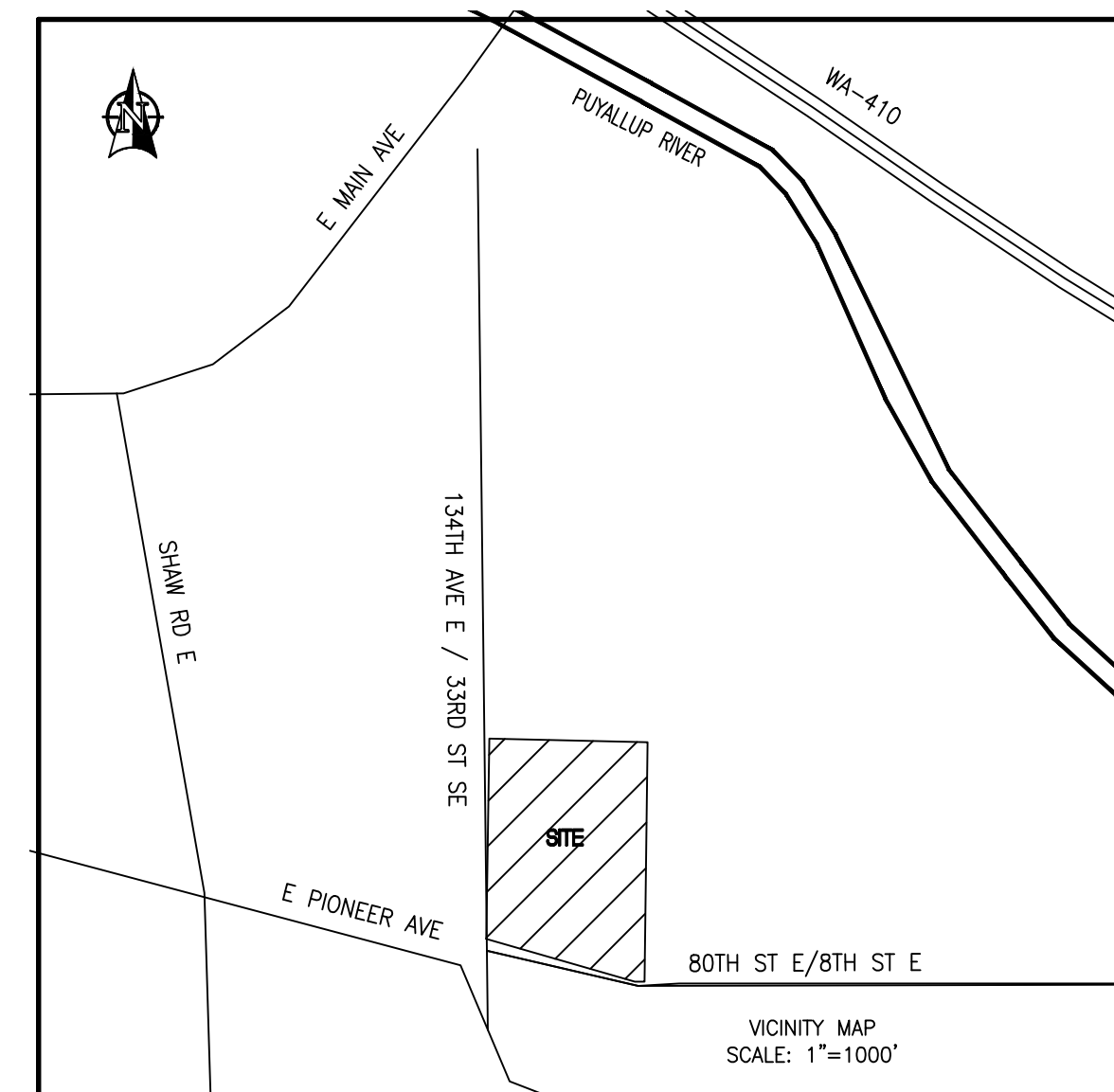
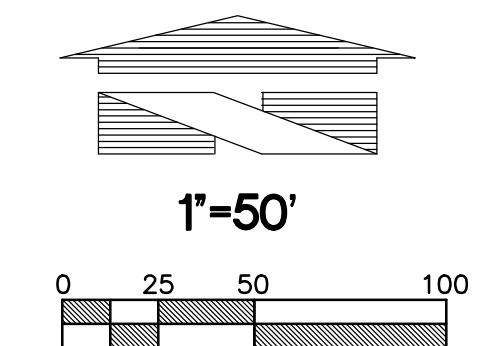
BCE GENERAL NOTES:

- 1. THE CONTRACTOR SHALL OBTAIN AND HAVE AVAILABLE COPIES OF THE APPLICABLE GOVERNING AGENCY STANDARDS AT THE JOB SITE DURING THE RELATED CONSTRUCTION OPERATIONS.
2. CONTRACTOR SHALL ASSURE THAT ALL NECESSARY PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCING WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION...

- NOTE:
1. SANITARY SEWER CONNECTION SHALL NOT OCCUR UNTIL THE EXISTING SEPTIC SYSTEM HAS BEEN DECOMMISSIONED IN ACCORDANCE WITH TPCHD REQUIREMENTS.
2. SEPARATE UTILITY CONNECTION PERMIT REQUIRED PRIOR TO CONNECTION TO THE NEW SEWER MAIN.

SEWER COVER SHEET FOR GERMAINE KORUM CENTER

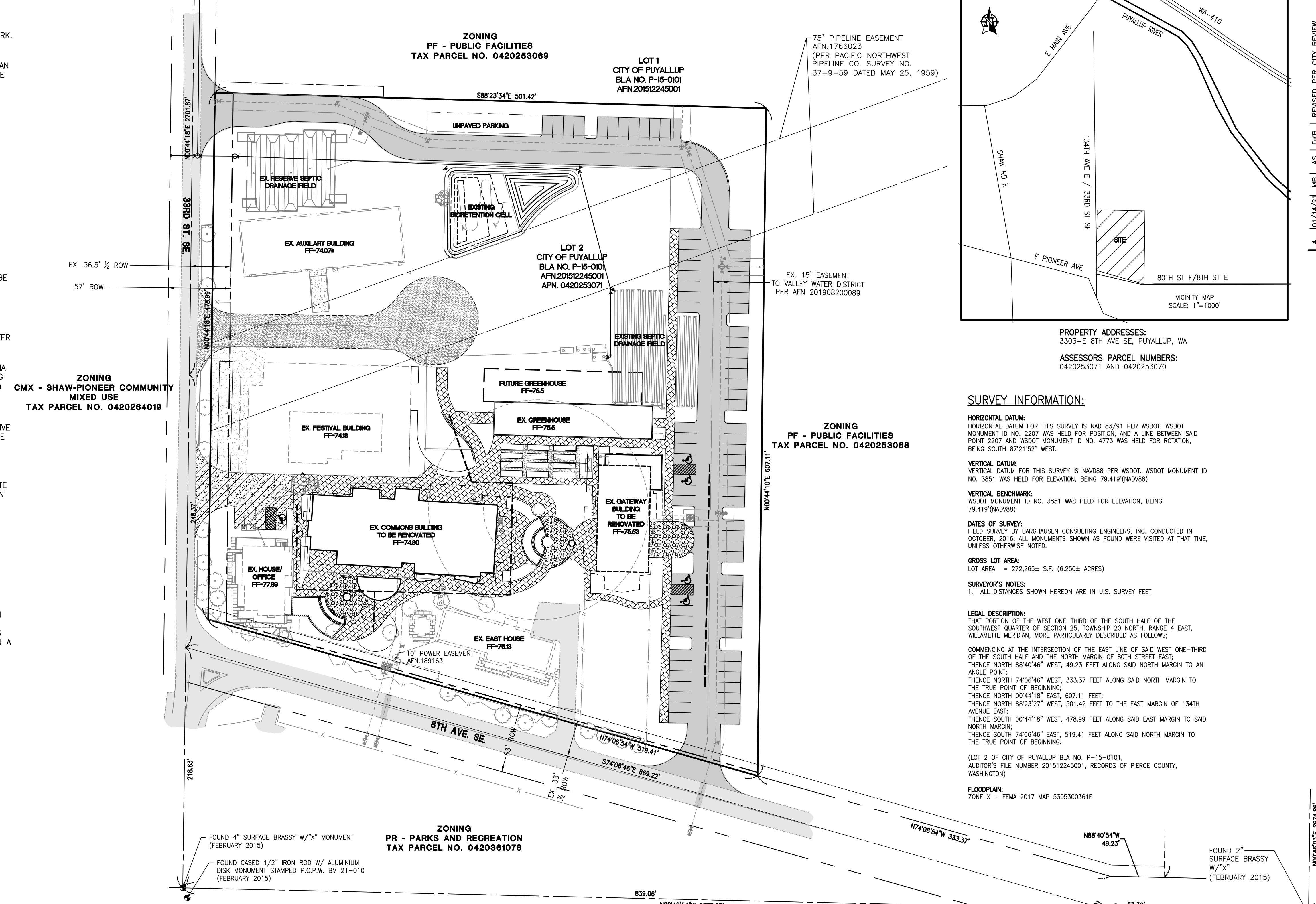
A PORTION OF THE SW 1/4 OF THE SW 1/4 OF SEC. 25, TWP. 20 NORTH, RGE. 4 EAST, W.M. CITY OF PUYALLUP PIERCE COUNTY WASHINGTON



PROPERTY ADDRESSES: 3303-E 8TH AVE SE, PUYALLUP, WA
ASSESSORS' PARCEL NUMBERS: 0420253071 AND 0420253070

SURVEY INFORMATION:

HORIZONTAL DATUM: HORIZONTAL DATUM FOR THIS SURVEY IS NAD 83/91 PER WSDOT. WSDOT MONUMENT ID NO. 2207 WAS HELD FOR POSITION, AND A LINE BETWEEN SAID POINT 2207 AND WSDOT MONUMENT ID NO. 4773 WAS HELD FOR ROTATION...
VERTICAL DATUM: VERTICAL DATUM FOR THIS SURVEY IS NAVD88 PER WSDOT. WSDOT MONUMENT ID NO. 3851 WAS HELD FOR ELEVATION, BEING 79.419'(NAVD88)...



LEGEND: Table listing symbols for various utilities and features such as Survey Monument, EX. POWER METER, EX. LUMINAIRE (LUM.), EX. POWER POLE, EX. JUNCTION BOX, EX. CATCH BASIN (CB), EX. CATCH BASIN (CB) TYPE 2, EX. SANITARY SEWER MANHOLE (SSMH), EX. GAS METER, EX. GAS VALVE, EX. WATER VALVE (WV), EX. FIRE HYDRANT (FH), MAIL BOX, EX. WATER METER, EX. WATER FAUCET, EX. WATER LINE, EX. SIGN, PROPOSED SIGN, EX. SANITARY SEWER LINE, EX. STORM DRAINAGE LINE, EX. POWER UNDERGROUND, EX. POWER OVERHEAD, EX. GAS LINE, EX. METAL FENCE, EX. WOOD FENCE, EX. GUARD RAIL, EX. TELEPHONE, EXISTING CURB, PROPOSED CURB.

CONSTRUCTION SEQUENCE:

- 1. SCHEDULE AND ATTEND PRE-CONSTRUCTION MEETING WITH CITY OF PUYALLUP OFFICIALS.
2. FLAG ALL TREES TO REMAIN, CLEARING AND GRADING LIMITS FOR PROJECT.
3. INSTALL TEMPORARY FILTER FABRIC FENCE AND CB PROTECTION AS NEEDED.
4. SCHEDULE AN EROSION CONTROL INSPECTION WITH THE CITY OF PUYALLUP.
5. REMOVE ALL EXISTING MATERIAL AS NEEDED FOR THE INSTALLATION OF THE NEW SEWER MAIN.

- INDEX TO SHEETS:
S1 OF 4 SEWER COVER SHEET
S2 OF 4 SANITARY SEWER AND STORM DRAIN MODIFICATION PLAN
S3 OF 4 CONSTRUCTION NOTES AND DETAILS
S4 OF 4 CONSTRUCTION NOTES AND DETAILS

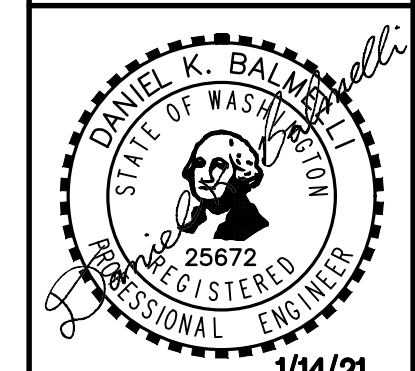
UTILITY CONFLICT NOTE: CAUTION: THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POT-HOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION...

CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR OBTAINING PERMITS FROM THE WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES FOR REMOVING AND REPLACING ALL SURVEY MONUMENTATION THAT MAY BE AFFECTED BY CONSTRUCTION ACTIVITY...
WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES
PUBLIC LAND SURVEY OFFICE
1111 WASHINGTON STREET S.E.
P.O. BOX 47060
OLYMPIA, WASHINGTON 98504-7060

APPROVED BY: CITY OF PUYALLUP DEVELOPMENT SERVICES
DATE:
NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.
THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.
FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

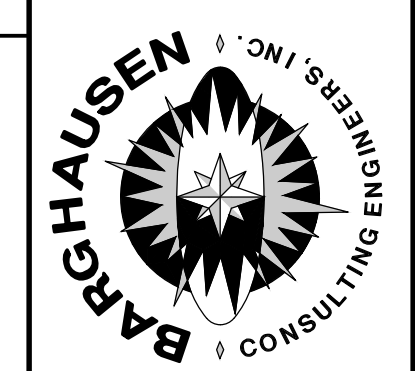
SEWER COVER SHEET FOR GERMAINE KORUM CENTER

STEP BY STEP PO BOX 488 MILTON, WA 98354 PHONE: 253-896-0903



Scale: Horizontal 1 inch = 50 feet, Vertical 1 inch = 10 feet
Designed: AS, Draw: ZTW, Checked: ZTW, Approved: DKB, Date: 11/23/21

18215 72ND AVENUE SOUTH KENT, WA 98032 (425)251-6222 (425)251-8752 FAX CIVIL ENGINEERING, LAND PLANNING, SURVEYING, ENVIRONMENTAL SERVICES



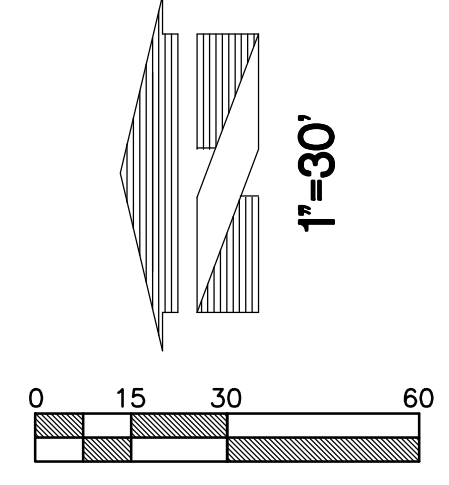
Job Number 17376 Sheet 4 of 4



Know what's below.  
Call before you dig.

# SANITARY SEWER AND STORM DRAIN MODIFICATION PLAN

FOR  
**GERMAINE KORUM CENTER**  
A PORTION OF THE SW<sup>1</sup>/<sub>4</sub> OF THE SW<sup>1</sup>/<sub>4</sub> OF SEC. 25, TWP. 20 NORTH, RGE. 4 EAST, W.M.  
CITY OF PUYALLUP PIERCE COUNTY WASHINGTON

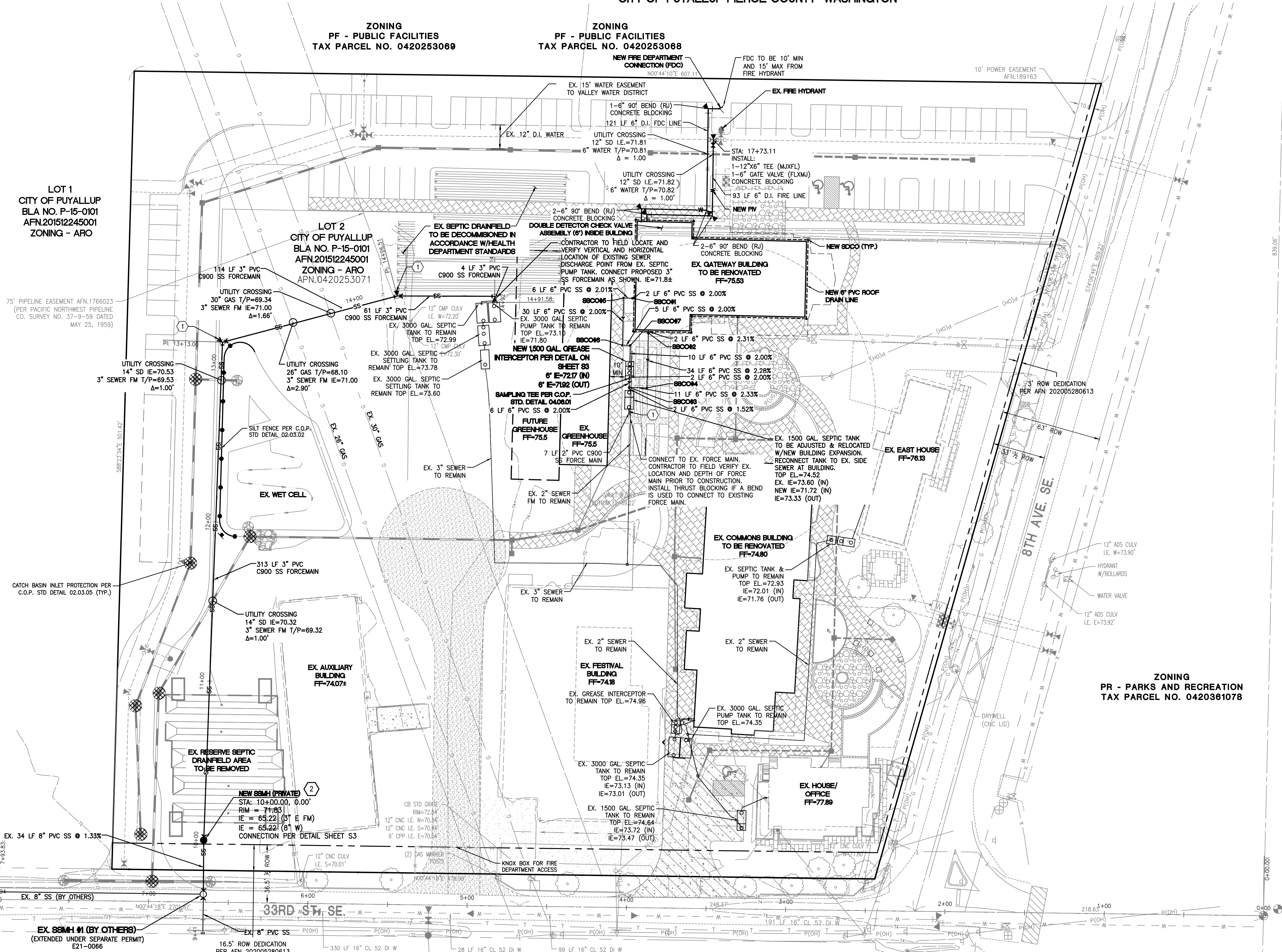


ZONING  
PF - PUBLIC FACILITIES  
TAX PARCEL NO. 0420253089

ZONING  
PF - PUBLIC FACILITIES  
TAX PARCEL NO. 0420253088

ZONING  
PR - PARKS AND RECREATION  
TAX PARCEL NO. 0420361078

ZONING  
CMX - SHAW-PIONEER COMMUNITY MIXED USE  
TAX PARCEL NO. 0420264019



### SANITARY SEWER STRUCTURE TABLE

EX. SSMH #1 (BY OTHERS), TYPE 1-48"	STA = 6+65.65, 4.98 RT
	RIM = 72.93
	IE=64.77 (8" IN W)
	IE=64.77 (8" IN E)
	IE=64.67 (8" OUT N)
NEW SSMH (PRIVATE), TYPE 1-48"	STA = 10+00.00, 0.00
	RIM = 71.83
	IE=65.32 (3" IN E W/DOWNTURNED ELBOW)
	IE=65.22 (8" OUT W)
	CONNECTION PER DETAIL SHEET S3
SSCO#1,	RIM = 75.49
	IE=72.52 (6" S)
	IE=72.52 (6" N)
SSCO#2,	RIM = 75.48
	IE=72.16 (6" E)
	IE=72.16 (6" W)
SSCO#3,	RIM = 75.20
	IE=71.12 (6" S)
	IE=71.12 (6" E)
	IE=71.12 (6" W)
SSCO#4,	RIM = 75.03
	IE=71.38 (6" E)
	IE=71.38 (6" N)
SSCO#5,	RIM = 75.48
	IE=72.41 (6" S)
	IE=72.41 (6" W)
SSCO#6,	RIM = 75.50
	IE=71.82 (6" E)
	IE=71.82 (6" S)
SSCO#7,	RIM = 75.47
	IE=71.72 (6" N)
	IE=71.72 (6" W)

### KEYNOTES

- CONTRACTOR TO INSTALL A CLEANOUT UPSTREAM OF BEND AS A FLUSHING POINT. INSTALL THRUST BLOCKING AT BEND.
- PRIOR TO OPERATION OF THE NEW ONSITE SEWER SYSTEM, A SEPARATE UTILITY CONNECTION PERMIT SHALL BE OBTAINED FROM THE CITY.

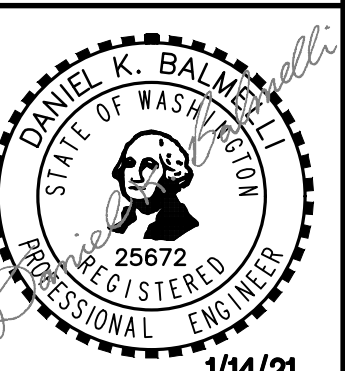
### WETWELL LINING NOTE

INTERIOR OF FORCEMAIN DISCHARGE MANHOLE SHALL BE LINED WITH RAVEN 45 EPOXY OR APPROVED ALTERNATIVE.

Revision  
4. [01/14/21] MB AS DKB REVISED PER CITY REVIEW

Title:  
**SANITARY SEWER AND STORM DRAIN MODIFICATION PLAN**  
FOR  
**GERMAINE KORUM CENTER**

STEP BY STEP  
PO BOX 488  
MILTON, WA 98354  
PHONE: 253-896-0903



Scale:  
Horizontal 1"=30'  
Vertical 1"=30'

Designed AS  
Drawn ZTW  
Checked ZTW  
Approved DKB  
Date 11/23/21

For:  
18215 72ND AVENUE SOUTH  
KENT, WA 98032  
(425)251-6222  
(425)251-8752 FAX  
CIVIL ENGINEERING, LAND PLANNING,  
SURVEYING, ENVIRONMENTAL SERVICES



Job Number  
**17376**  
Sheet  
**4**  
S2 of 4

### APPROVED

BY \_\_\_\_\_  
CITY OF PUYALLUP  
UTILITIES SERVICES  
DATE \_\_\_\_\_

NOTE:  
THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.  
THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.  
FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

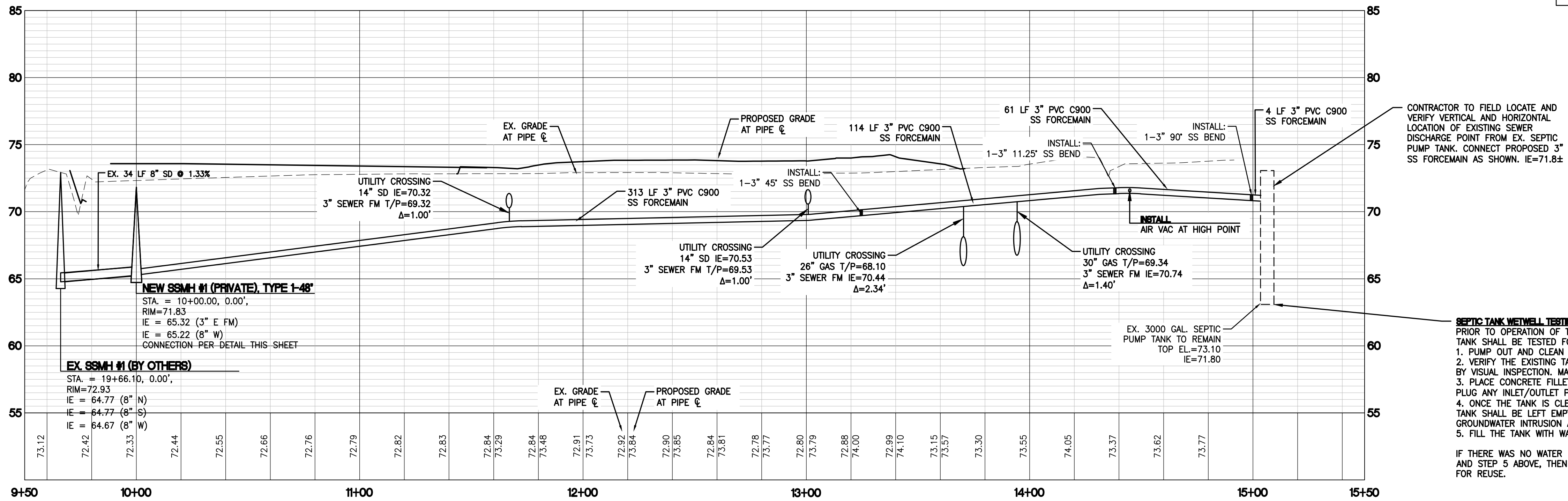
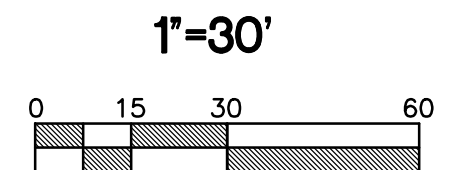


Know what's below. Call before you dig.

# SANITARY SEWER MODIFICATION PLAN

## FOR GERMAINE KORUM CENTER

A PORTION OF THE SW<sup>1</sup>/<sub>4</sub> OF THE SW<sup>1</sup>/<sub>4</sub> OF SEC. 25, TWP. 20 NORTH, RGE. 4 EAST, W.M.  
CITY OF PUYALLUP PIERCE COUNTY WASHINGTON



### SANITARY SEWER STRUCTURE TABLE

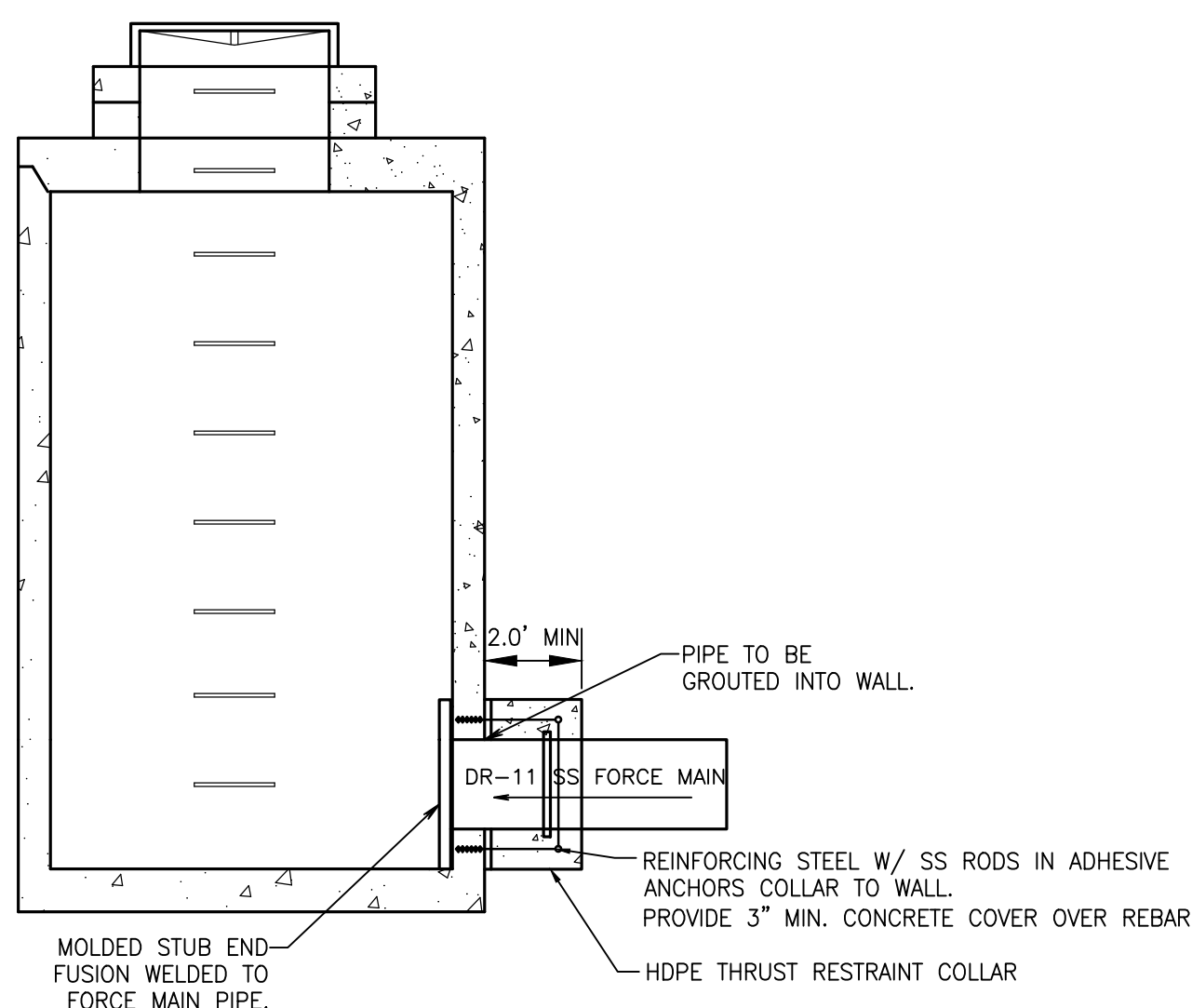
EX. SSMH #1 (BY OTHERS), TYPE 1-48"  
STA = 6+65.66, 4.98 RT  
RIM = 72.93  
IE = 64.77 (8" IN W)  
IE = 64.77 (8" IN E)  
IE = 64.67 (8" OUT N)

NEW SSMH (PRIVATE), TYPE 1-48"  
STA = 10+00.00, 0.00  
RIM = 71.83  
IE = 65.32 (3" E FM)  
IE = 65.22 (8" W)  
CONNECTION PER DETAIL THIS SHEET

EX. SSMH #1 (BY OTHERS)  
STA = 19+66.10, 0.00  
RIM = 72.93  
IE = 64.77 (8" N)  
IE = 64.77 (8" S)  
IE = 64.67 (8" W)

CONTRACTOR TO FIELD LOCATE AND VERIFY VERTICAL AND HORIZONTAL LOCATION OF EXISTING SEWER DISCHARGE POINT FROM EX. SEPTIC PUMP TANK. CONNECT PROPOSED 3" SS FORCEMAIN AS SHOWN. IE=71.8±

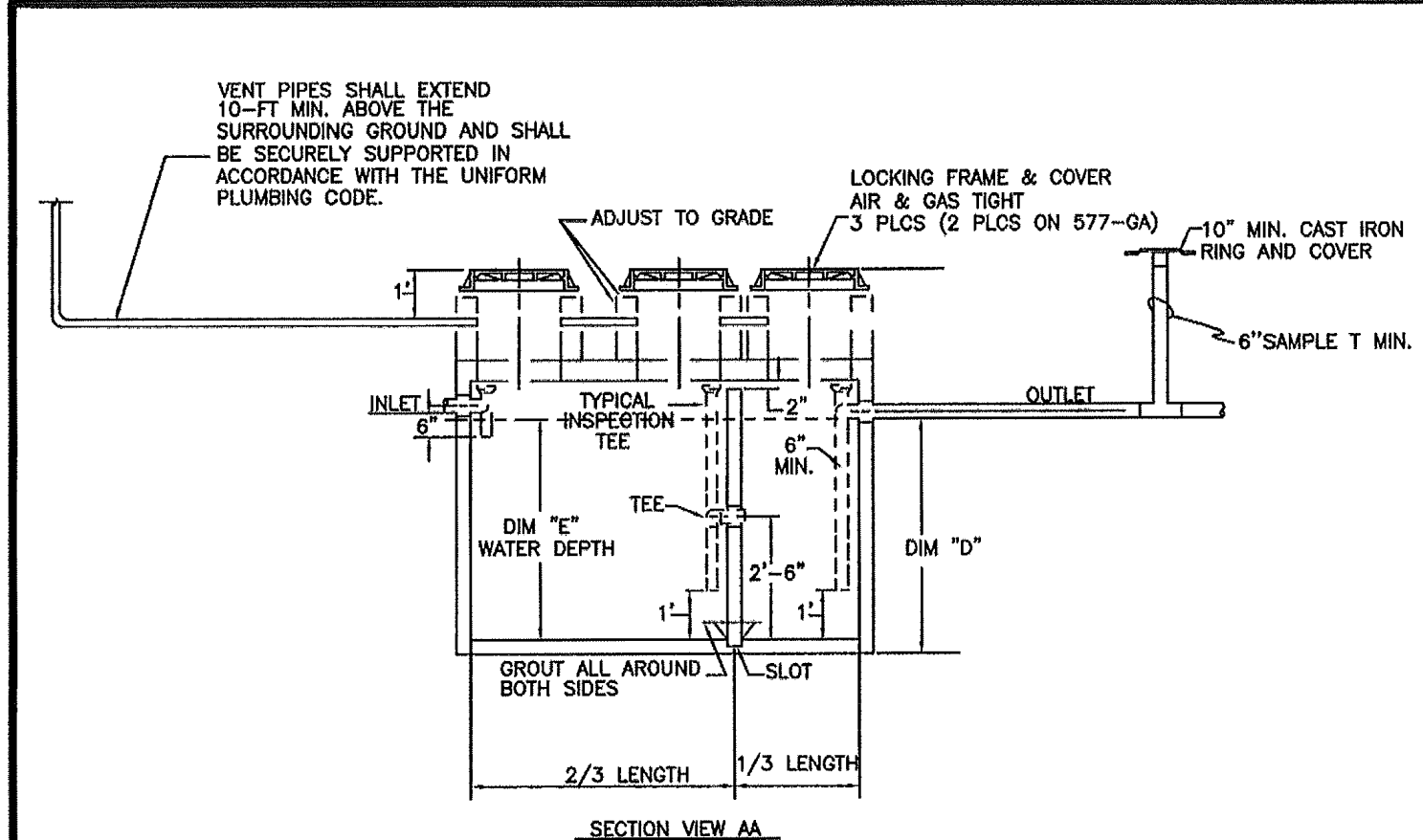
**SEPTIC TANK WETWELL TESTING**  
PRIOR TO OPERATION OF THE NEW FORCEMAIN SYSTEM, THE EXISTING TANK SHALL BE TESTED FOR INFILTRATION AND EXFILTRATION:  
1. PUMP OUT AND CLEAN THE SEPTIC TANK.  
2. VERIFY THE EXISTING TANK IS ACCEPTABLE FOR CONTINUED USE BY VISUAL INSPECTION. MAKE ANY NECESSARY REPAIRS.  
3. PLACE CONCRETE FILLET AROUND THE BASE OF THE TANK AND PLUG ANY INLET/OUTLET PIPES TO BE ABANDONED.  
4. ONCE THE TANK IS CLEANED AND PREPPED PER THE ABOVE, THE TANK SHALL BE LEFT EMPTY FOR 2 HOURS. ASSUMING NO GROUNDWATER INTRUSION AFTER 2 HOURS GO TO STEP 5.  
5. FILL THE TANK WITH WATER AND LEAVE STATIC FOR 2 HOURS.  
IF THERE WAS NO WATER INFILTRATION OR EXFILTRATION PER STEP 4 AND STEP 5 ABOVE, THEN THE TANK MAY BE DEEMED ACCEPTABLE FOR REUSE.



NOTES:  
1. LOCATE INLET AT SAME ELEVATION AS THE OUTLET W/ CHANNELIZATION

### FORCE MAIN TO EXISTING MANHOLE CONNECTION

NOT TO SCALE



NOTES:

- CONCRETE: 28 DAY COMPRESSIVE STRENGTH  $f_c = 4500$  psi
- REBAR: ASTM A-615 GRADE 60
- MESH: ASTM A-185 GRADE 65
- DESIGN: ACI-318-83 BUILDING CODE  
ASTM C-857 "MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES"
- MINIMUM VAULT DIMENSIONS BASED ON UTILITY VAULT. OTHER MANUFACTURER'S SIZING MAY VARY.  
\* SEE CITY STANDARD DETAIL NO. 04.06.02 FOR ADDITIONAL NOTES

CAPACITY	DIM "A"	DIM "B"	DIM "C"	DIM "D"	WATER DEPTH DIM "E"
750	7'-0"	4'-8"	7'-0"	4'-3"	3'-11"
1000	9'-0"	5'-0"	7'-2"	4'-2"	3'-10"
1500	11'-2"	5'-8"	7'-2"	4'-3"	3'-11"
2000	12'-8"	6'-8"	8'-0"	4'-7"	3'-10"
2500	12'-8"	6'-8"	8'-0"	5'-6"	4'-9"
3000	13'-1"	8'-0"	8'-7"	5'-1"	4'-8"
4000	13'-1"	8'-0"	8'-7"	6'-8"	6'-3"
5000	15'-7"	9'-7"	10'-0"	7'-4"	6'-1"
6000	19'-11"	9'-11"	10'-5"	7'-1"	5'-8"
7000	19'-11"	9'-11"	10'-5"	8'-0"	6'-7"

### NOTES FOR GREASE INTERCEPTORS:

- THE PLANS & SPECIFICATIONS SHALL ILLUSTRATE PROPERTY BOUNDARIES, PIPING/DRAINAGE DETAILS AND CONNECTIONS TO THE SANITARY SEWER. DETAIL AND ELEVATION DRAWINGS OF THE GREASE INTERCEPTOR SHALL INCLUDE SIZING CALCULATIONS IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE CURRENTLY ADOPTED BY THE CITY OF PUYALLUP.
- VENTING OF THE INTERCEPTOR SHALL BE IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE CURRENTLY ADOPTED BY THE CITY OF PUYALLUP.
- EFFLUENT FROM GREASE INTERCEPTORS SHALL NOT EXCEED 100 mg/L FAT, OIL, AND/OR GREASE DISCHARGED TO THE DOWNSTREAM SANITARY SEWER SYSTEM.
- GREASE INTERCEPTORS INSTALLED IN PAVED AREAS SHALL COMPLY WITH H-20 LOADING CRITERIA.
- THE GREASE INTERCEPTOR SHALL BE INSTALLED AND CONNECTED SUCH THAT IT SHALL BE EASILY ACCESSIBLE FOR INSPECTION, CLEANING, AND REMOVAL AT ALL TIMES. MANHOLE COVERS SHALL BE GAS TIGHT AND HAVE A MINIMUM OPENING OF 24-INCHES IN DIAMETER.
- NO SANITARY WASTEWATER SHALL BE CONVEYED TO THE SEPARATOR. A SEPARATE SIDE SEWER SHALL BE REQUIRED TO CARRY SANITARY WASTEWATER TO THE SEWER MAIN AND SHALL BE PLACED AS CLOSE TO THE SERVICE AREA AS PRACTICAL.
- PLUMBING/PIPING SHALL BE CONSTRUCTED TO ESTABLISH "PARALLEL FLOW" (90-DEGREES TO THE TANK BAFFLE) THROUGH THE GREASE INTERCEPTOR. NO RADIUS, BEND, OR ELBOW SHALL BE ALLOWED IN THE INLET PIPE UPSTREAM OF THE INTERCEPTOR FOR A MINIMUM OF 10-FEET, OR 20-PIPE DIAMETERS, WHICHEVER IS GREATER.
- ANY PUMP MECHANISM SHALL BE INSTALLED DOWNSTREAM OF THE INTERCEPTOR TO PREVENT FAT, OIL, AND GREASE EMULSIFICATION. A "TEE" CONNECTION SHALL BE INSTALLED IN THE DISCHARGE PIPING TO PROVIDE FOR SAMPLE COLLECTION
- ALL GREASE INTERCEPTORS SHALL BE FILLED WITH CLEAN WATER BEFORE USE.
- THE DESIGN ENGINEER SHALL PROVIDE ENGINEERING SERVICES STAFF WITH A LETTER OF INSPECTION CERTIFYING THAT THE INSTALLATION WAS PERFORMED IN ACCORDANCE WITH ALL REGULATIONS AND THE APPROVED PLAN.
- FINAL INSPECTION IS REQUIRED BY ENGINEERING SERVICES STAFF PRIOR TO CONNECTING TO THE SANITARY SEWER.
- THE PROPERTY OWNER SHALL RETAIN OWNERSHIP OF THE GREASE INTERCEPTOR AND SIDE SEWER LINES AND SHALL BE RESPONSIBLE FOR THEIR OPERATION AND MAINTENANCE. A SERVICE/MAINTENANCE RECORD SHALL BE KEPT ON THE PREMISES AT ALL TIMES AND SHALL BE IMMEDIATELY AVAILABLE TO CITY OF PUYALLUP STAFF UPON REQUEST.
- THE PROPERTY OWNER SHALL REPORT IMMEDIATELY TO THE CITY'S INDUSTRIAL PRETREATMENT SPECIALIST ANY SPILL, SURCHARGE, BYPASS, OR MECHANICAL FAULT AND/OR FAILURE WHICH INTERRUPTS, OR OTHERWISE REDUCES THE CAPACITY OR REMOVAL EFFICIENCY OF THE GREASE INTERCEPTOR BY CALLING (253) 841-5523.

CITY OF PUYALLUP OFFICE OF THE CITY ENGINEER  
GREASE INTERCEPTOR  
DATE: 11/30/16

CITY OF PUYALLUP OFFICE OF THE CITY ENGINEER  
GREASE INTERCEPTOR (NOTES)  
DATE: 11/30/16

APPROVED  
BY: \_\_\_\_\_  
CITY OF PUYALLUP DEVELOPMENT SERVICES  
DATE: \_\_\_\_\_  
NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.  
THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.  
FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

Revision: 4  
No. 10/14/21  
Date: 11/23/21  
By: [Signature]  
Cld: [Signature]  
Appr: [Signature]  
REVISED PER CITY REVIEW

Title: SANITARY SEWER MODIFICATION PLAN FOR GERMAINE KORUM CENTER

For: [Signature]  
DANIEL K. BALMEY  
STATE OF WASHINGTON  
25672  
REGISTERED PROFESSIONAL ENGINEER  
1/14/21

Scale: Horizontal 1"=30' Vertical 1"=30'

Designed: [Signature]  
Drawn: [Signature]  
Checked: [Signature]  
Approved: [Signature]  
Date: 11/23/21

18215 72ND AVENUE SOUTH  
KENT, WA 98032  
(425)251-6222  
(425)251-8752 FAX  
CIVIL ENGINEERING, LAND PLANNING,  
SURVEYING, ENVIRONMENTAL SERVICES

Job Number: 17376  
Sheet: 4 of 4  
Scale: 1"=30'



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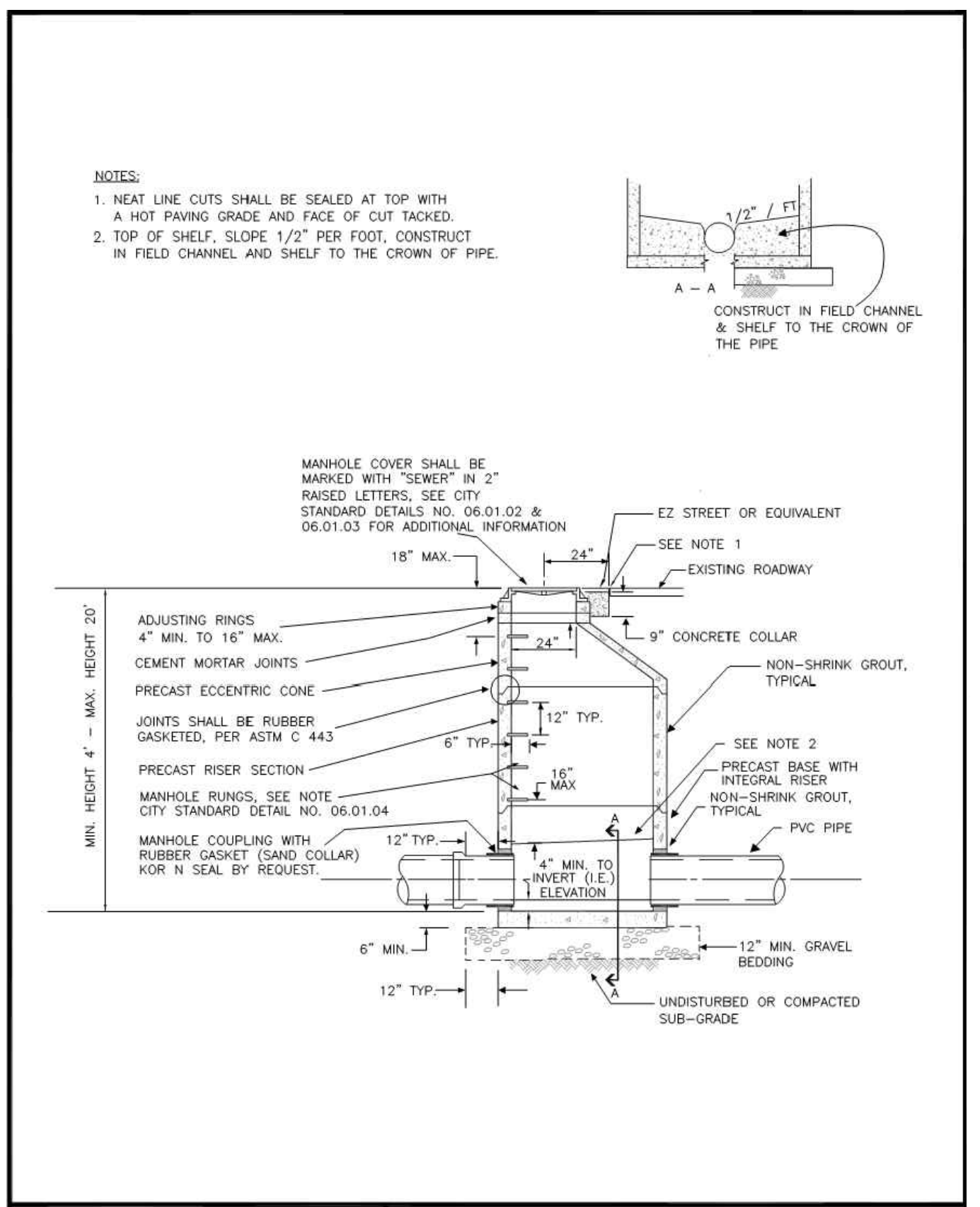
# CONSTRUCTION NOTES AND DETAILS

## FOR GERMAINE KORUM CENTER

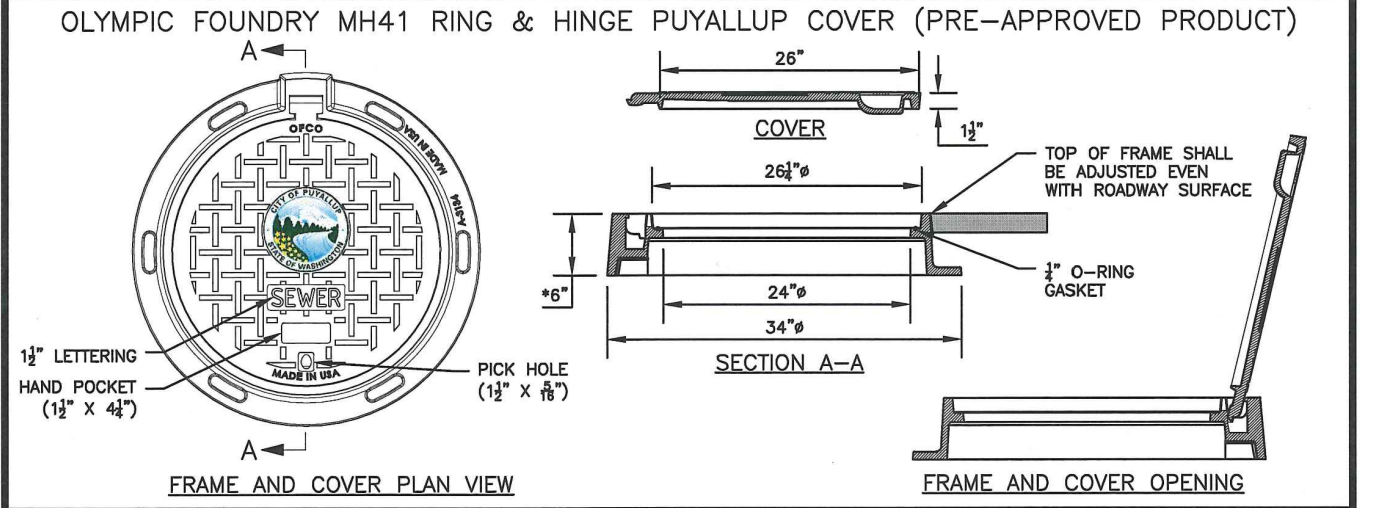
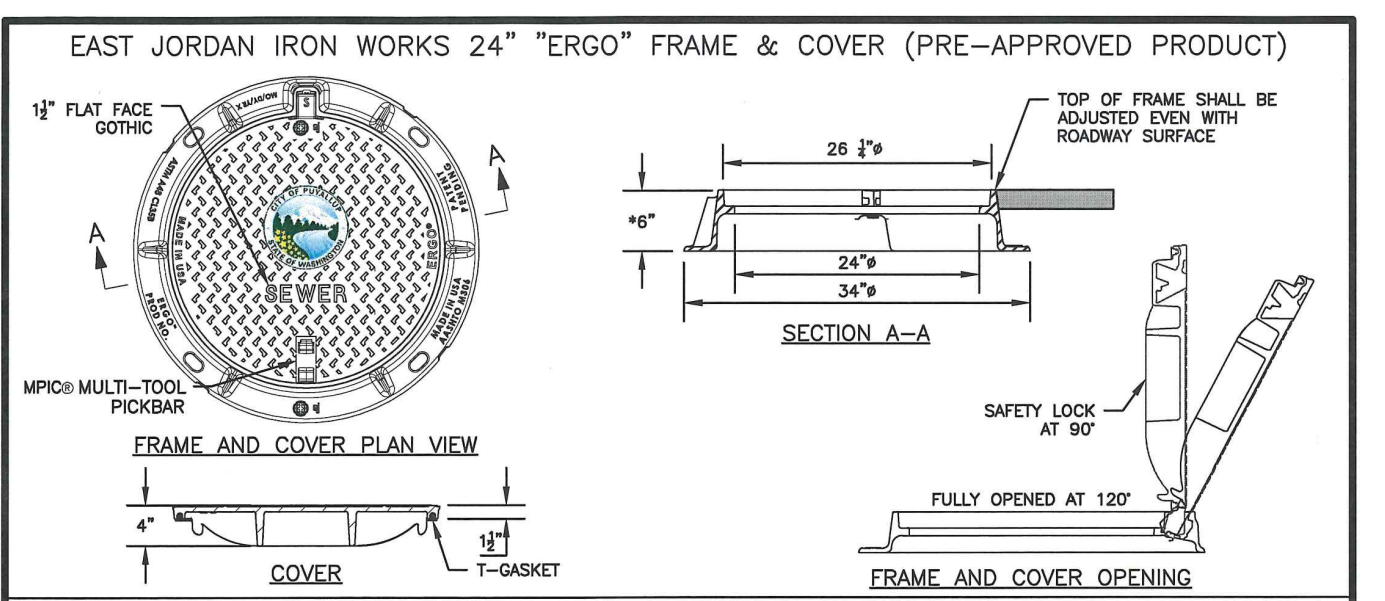
A PORTION OF THE SW 1/4 OF THE SW 1/4 OF SEC. 25, TWP. 20 NORTH, RGE. 4 EAST, W.M. CITY OF PUYALLUP PIERCE COUNTY WASHINGTON

### GENERAL NOTES:

- 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.
- 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').
- A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- 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.
- 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.
- ANY STRUCTURE AND/OR OBSTRUCTION THAT REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- 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.
- THE CONTRACTOR SHALL INSTALL, REPLACE, OR RELOCATE ALL SIGNS, AS SHOWN ON THE PLANS OR AS AFFECTED BY CONSTRUCTION, PER CITY STANDARDS.
- 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.
- 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.
- 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.
- CERTIFIED RECORD DRAWINGS ARE REQUIRED PRIOR TO PROJECT ACCEPTANCE.
- 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.
- 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.

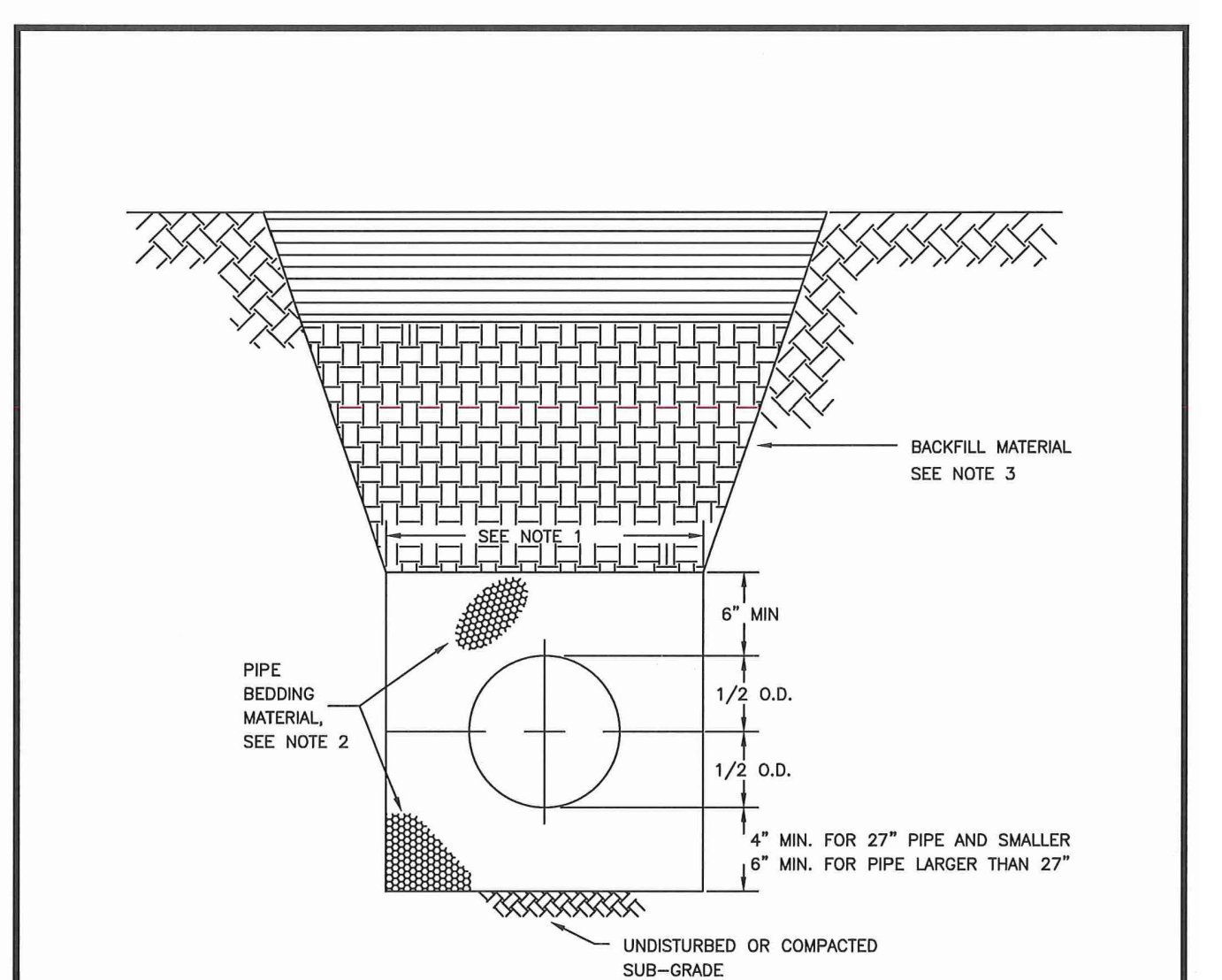


	<b>CITY OF PUYALLUP</b> DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	<b>SANITARY SEWER MANHOLE</b>	CITY STANDARD 06.01.01 DATE: 04.01.01
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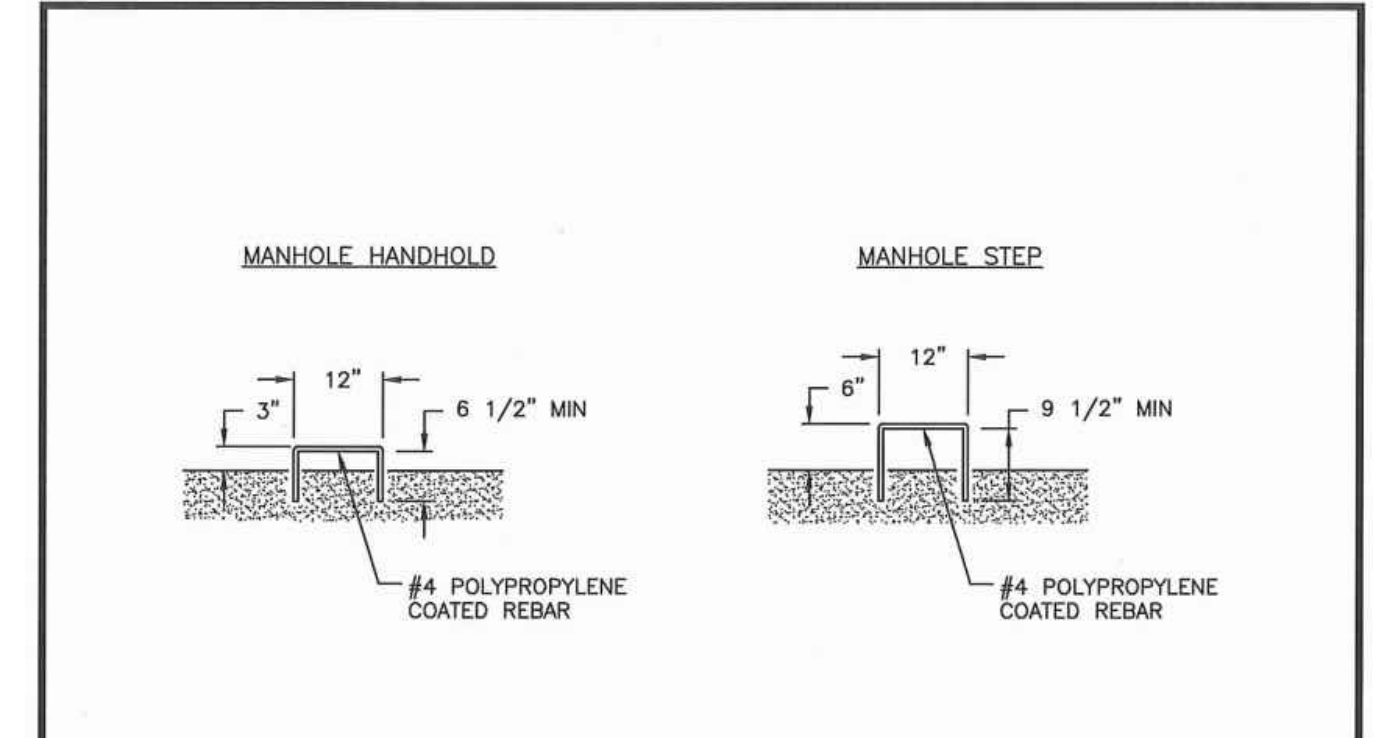
- NOTES:**
- EAST JORDAN IRON WORKS 24" "ERGO" and OLYMPIC FOUNDRY MH41 RING & HINGE PUYALLUP COVER ARE PRE-APPROVED PRODUCTS AND SHALL BE USED FOR PUBLICLY-OWNED INFRASTRUCTURE. ALL OTHERS REQUIRE WRITTEN APPROVAL OF THE ENGINEER PRIOR TO INSTALLATION.
  - MANHOLE FRAME AND COVERS SHOULD NOT BE LOCATED IN PEDESTRIAN PATHWAYS (E.G. SIDEWALKS, CROSSWALKS, ETC.), WHERE EXISTING OR PROPOSED CONDITIONS REQUIRE A MANHOLE FRAME AND COVER TO BE INSTALLED WITH A PEDESTRIAN PATHWAY. THE MANHOLE FRAME AND COVER SHALL BE ADA COMPLIANT.
  - NON-ROOFING FIT FOR MANHOLE COVERS.
  - CASTING TO BE SHOT BLASTED AND FREE FROM SURFACE SAND AND SCALE.
  - CASTING TO BE SMOOTH, TRUE TO PATTERN, FREE FROM BLOWHOLES, POROSITY, SHRIEK HOLES, WARP, OR ANY OTHER DEFECTS WHICH WOULD IMPAIR SERVICEABILITY.
  - CASTINGS SHALL BE UNCOATED.
  - FOR STORM APPLICATIONS CAST LETTERS SHALL READ "STORM".
  - INSTALL FRAME AND COVER IN ROADWAY WITH HINGED SIDE OF ASSEMBLY POINTED TOWARD ONCOMING TRAFFIC.
  - THE CITY SHALL HAVE THE RIGHT TO REQUIRE INSPECTION AND APPROVAL OF ALL CASTINGS PRIOR TO PAINTING.
  - REPAIR OR DEFECTS BY WELDING, OR BY THE USE OF "SMOOTH-ON" OR SIMILAR MATERIAL WILL NOT BE PERMITTED.
  - MANHOLE RING AND COVER SHALL BE FREE OF POROSITY, SHRINK CAVITIES, COLD SHUTS OR CRACKS OR ANY SURFACE DEFECTS WHICH WOULD IMPAIR SERVICEABILITY.
  - FRAME HEIGHT MAY BE 4" FOR OVERLAYS AND PAVEMENT REHABILITATION PROJECTS, WITH WRITTEN APPROVAL BY THE CITY ENGINEER.

	<b>CITY OF PUYALLUP</b> OFFICE OF THE CITY ENGINEER	<b>MANHOLE FRAME AND COVER</b>	CITY STANDARD 06.01.02 DATE: 06.01.02
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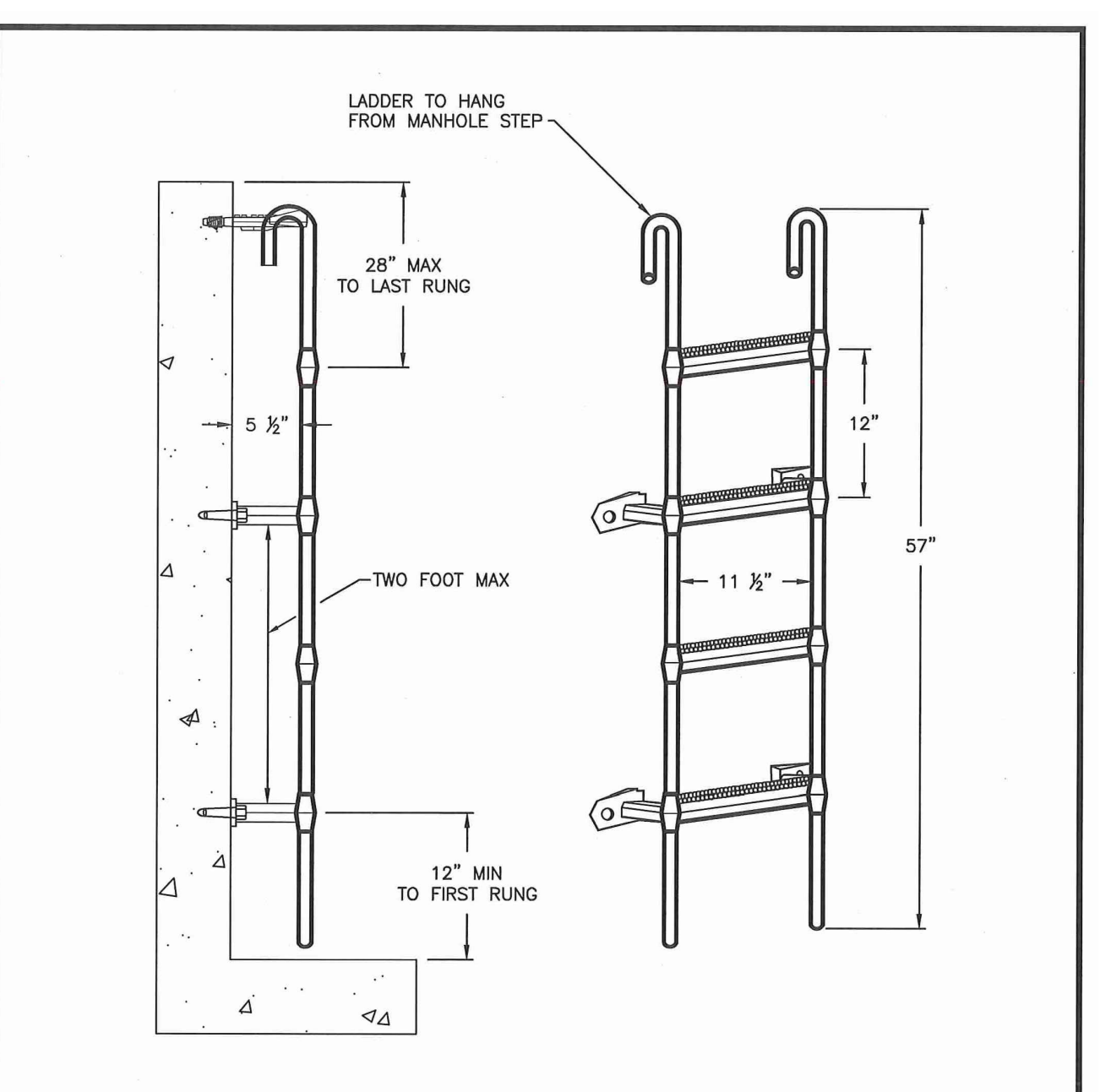
- TRENCHING SHALL MEET THE REQUIREMENTS OF SECTION 7-08.3(1)A AND 2-06.3(1) OF THE WSDOT SPECIFICATIONS.
- BEDDING MATERIAL SHALL CONFORM TO 9-03.12(3) GRAVEL BACKFILL FOR PIPE ZONE BEDDING.
- GRAVEL BACKFILL SHALL CONFORM TO 9-03.12(1)A GRAVEL BACKFILL FOR FOUNDATIONS, CLASS A.

	<b>CITY OF PUYALLUP</b> OFFICE OF THE CITY ENGINEER	<b>PIPE TRENCHING BEDDING AND BACKFILL</b>	CITY STANDARD 06.01.01 DATE: 06.01.01
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- NOTES:**
- MANHOLE STEPS AND HANDHOLDS SHALL BE POLYPROPYLENE COATED GRADE 60 REBAR CONFORMING TO ASTM C-478, D-4101, A-615 AND AASHTO M-199.
  - PREFABRICATED LADDERS SHALL BE MADE OF REBAR AND ENCASED IN POLYPROPYLENE AFTER FABRICATION.
  - STEPS MAY BE INSTALLED: CAST IN PLACE, OR DRIVEN INTO PREFORMED HOLES WITH THE CONCRETE CURED TO 3,000 PSI MINIMUM, OR BY DRILLING TWO ONE INCH DIAMETER HOLES 3-3/4" DEEP, 13" O.C. APPLY NON-SHRINK GROUT AROUND BARBED ENDS AND DRIVE TO FULL INSERTION.
  - PENETRATION OF THE OUTER WALL OF A STRUCTURE WITH A LEG OF A STEP OR LADDER SHALL NOT OCCUR. STEPS AND LADDER RUNGS SHALL BE SPACED AT 12 INCHES AND SHALL BE VERTICALLY ALIGNED.
  - STEPS, HANDHOLDS, LADDER RUNGS AND FASTENINGS SHALL BE DESIGNED FOR A MINIMUM LIVE LOAD OF 300 LBS AND A PULL OUT FORCE OF 1,000 LBS.
  - STEPS, HANDHOLDS, AND LADDER PARTS SHALL BE FREE OF SPLINTERS, SHARP EDGES, BURRS OR PROJECTIONS WHICH MAY CAUSE HAZARDS.
  - REQUESTS TO USE STEPS, HANDHOLDS AND LADDERS MADE FROM NON-CORROSIVE MATERIALS SUCH AS STAINLESS STEEL AND PLASTIC MAY BE ACCEPTED AFTER REVIEW AND APPROVAL BY THE CITY. GALVANIZED STEEL WILL NOT BE PERMITTED IN SANITARY SEWER AND STORM SEWER MANHOLES AND STRUCTURES.

	<b>CITY OF PUYALLUP</b> OFFICE OF THE CITY ENGINEER	<b>MANHOLE STEP AND HANDHOLD</b>	CITY STANDARD 06.01.03 DATE: 06.01.03
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	<b>CITY OF PUYALLUP</b> OFFICE OF THE CITY ENGINEER	<b>MANHOLE LADDER</b>	CITY STANDARD 06.01.04 DATE: 06.01.04
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### SEWER NOTES:

- 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.
- 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').
- A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- 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.
- 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.
- ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRE REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- 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.
- 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).
- 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,

- SANITARY SEWER MANHOLE FRAMES AND COVERS SHALL CONFORM TO CITY STANDARD NO. 06.01.02.
- 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.
- 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.
- 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.
- 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.
- 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.

**APPROVED**

BY: \_\_\_\_\_  
CITY OF PUYALLUP  
DEVELOPMENT SERVICES

DATE: \_\_\_\_\_

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.

THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.

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

Revision

4	01/14/21	MB	By	Date	Appr.	AS	DWG	REVISED PER CITY REVIEW
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Title: CONSTRUCTION NOTES AND DETAILS FOR GERMAINE KORUM CENTER

For: STEP BY STEP PO BOX 488 MILTON, WA 98354 PHONE: 253-896-0903

Scale: Horizontal Vertical

Designed AS: \_\_\_\_\_  
Drawn ZTK  
Checked ZTK  
Approved DKB  
Date 11/23/21

18215 72ND AVENUE SOUTH  
KENT, WA 98032  
(425)251-6222 FAX  
(425)251-8782

CIVIL ENGINEERING, LAND PLANNING,  
SURVEYING, ENVIRONMENTAL SERVICES

Job Number: 17376  
Sheet: S4 of 4

