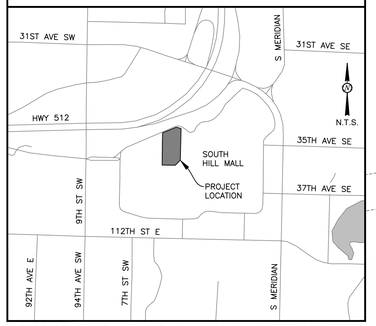
OVERALL SITE PLAN - ASBUILT
HOMEWOOD SUITES
A PORTION OF SECTION 04, TOWNSHIP 19 N., RANGE 04 E., W.M.
CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON

VICINITY MAP



A PART OF PARCEL NUMBER 6021590090, LOT 9, SECTION 04, TOWNSHIP 19N, RANGE 04 E, QUARTER 43 OF THE SOUTH HILL MALL PH II BSP SW OF SE 4–19–04E, CITY OF PUYALLUP, COUNTY OF PIERCE, AND STATE OF WASHINGTON.

NOTES:
1. DIMENSIONS ARE TO FLOWLINE UNLESS OTHERWISE NOTED.
2. ANY REVISION TO THE APPROVED DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE CITY UNDER A PLAN CHANGE REQUEST REGARDLESS OF IT BEING ONSITE OR OFFSITE. SEE CITY OF PUYALLUP ENGINEERING GENERAL NOTE 5 FOR MORE INFORMATION.
3. ALL ONSITE FENCES AND RETAINING WALL SECTIONS ~~SHALL BE~~ DESIGNED WITH MATERIALS AND COLORS COMPLEMENTARY TO THE SURROUNDING SOUTH HILL MALL DEVELOPMENT.

SITE STATISTICS

SITE COVERAGE		
ITEM	AREA (SF)	AREA (%)
BUILDING FOOTPRINT *	24,776	19.8
SITE IMPERVIOUS	102,381	81.8
SITE PERVIOUS	22,844	18.2
GROSS FLOOR AREA	103,879	83.0
TOTAL SITE AREA	125,225	100
MAXIMUM BUILDING HEIGHT	73' – 1 1/8" (5 STORIES)	
FLOOR AREA RATIO		0.83
ZONING:	CCX – COMMUNITY COMMERCIAL MIXED USE	
PARKING REQUIRED:		
1 SPACE PER EACH SLEEPING UNIT		108
1 SPACE PER EACH 2 EMPLOYEES ON LARGEST SHIFT		
1 EMPLOYEE PER 10 UNITS DIVIDED BY 2		6
1 SPACE PER 90 SF OF MEETING/BANQUET ROOMS		
1 MEETING ROOM (740 SF) DIVIDED BY 90 SF		8
TOTAL REQUIRED	122 MAX. / 104 MIN.	
PARKING PROVIDED:		
STANDARD STALLS (9' X 18')		97
ADA STALLS (8' X 18')		6
SHARED OFF–SITE PARKING (9' X 18')		19
TOTAL PROVIDED		122

* BUILDING COVERAGE INCLUDES FIRST FLOOR FOOTPRINT.

SHEET INDEX

SCALE: 1"=60'

4" CONCRETE SIDEWALK
3" ASPHALT PAVEMENT
6" CONCRETE PAVEMENT
PAVER PATIO OR DECORATIVE CONCRETE

OWNER
HERITAGE INN & SUITES OF PUYALLUP, LLC
4500 36TH AVE. S, SUITE 200
FARGO, ND 58104
PH: 701–293–4077
JEFF@DAKOTALG.COM

CIVIL ENGINEER
BARGHAUSEN CONSULTING ENGINEERS
18215 72ND AVENUE SOUTH
KENT, WA 98032
PH: 425–251–6222
DDAWES@BARGHAUSEN.COM

CALL BEFORE YOU DIG
ONE CALL - WASHINGTON
1-800-424-5555 or 811

APPROVED
BY_____
CITY OF PUYALLUP ENGINEERING SERVICES
DATE_____
NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.
THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.
FIELD CONDITIONS MAY DICTATE CHANGES TO THE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

FIRE HYDRANT/FDC LOCATION/ACCESS APPROVED
BY_____
CITY OF PUYALLUP FIRE CODE OFFICIAL
DATE_____
NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.
THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.
FIELD CONDITIONS MAY DICTATE CHANGES TO THE PLANS AS DETERMINED BY THE FIRE CODE OFFICIAL.

No.	Date	By	Chkd.	Appr.	Revision
1	2/10/25	DC	DD	DD	REVISED PER SITE PLAN CHANGES

Title: OVERALL SITE PLAN - ASBUILT

HOMEWOOD SUITES

For: HERITAGE INN & SUITES OF PUYALLUP, LLC
4500 36TH AVE. S, SUITE 200
FARGO, NE 58104

DON E. DAWES — STATE OF WASHINGTON — 42009 — REGISTERED PROFESSIONAL ENGINEER
8/29/25

Scale: Horizontal 1"=60' Vertical N/A

Designed DC Drawn DC Checked DD Approved DD Date 8/29/25

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

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Job Number 22507 Sheet C–1 of 8

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.
16. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES ON THE DRAWINGS, OR IN THE FIELD PRIOR TO BEGINNING WORK OR DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER & ENGINEER.
17. A COMPLETE SET OF APPROVED DRAWINGS MUST BE MAINTAINED ON SITE AT ALL TIMES BY THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS.
18. CHANGES TO APPROVED PLANS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE OWNER AND ENGINEER.
19. ALL SITE AND RIGHT–OF–WAY CONSTRUCTION SHALL MEET CITY OF PUYALLUP STANDARD SPECIFICATIONS LATEST REVISION. IN THE CASE OF A DISCREPANCY BETWEEN THE PLANS AND SPECIFICATIONS, THE CITY'S DESIGN AND TECHNICAL REQUIREMENTS SHALL GOVERN.
20. ANY WORK ON EXISTING CITY OWNED UTILITIES SHALL REQUIRE NOTIFICATION TO THE CITY BY THE CONTRACTOR 24 HOURS PRIOR TO COMMENCING WORK.
21. THE CONTRACTOR SHALL COMPLY WITH ALL RULES & REGULATIONS OF FEDERAL, STATE, COUNTY, & LOCAL AUTHORITIES.
22. THE CONTRACTOR IS REQUIRED TO MEET ALL APPLICABLE FEDERAL, OSHA, STATE, AND LOCAL REGULATIONS CONCERNING PROJECT SAFETY AND ASSUMES FULL RESPONSIBILITY FOR SAFETY ON THE PROJECT.
23. CONTRACTOR SHALL VERIFY THAT ALL NECESSARY PERMITS FOR CONSTRUCTION HAVE BEEN OBTAINED, ALL BONDS ARE POSTED, ALL FEES ARE PAID AND PROOF OF INSURANCE IS PROVIDED PRIOR TO THE START OF THE PROJECT.
24. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL HORIZONTAL AND VERTICAL CONTROLS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURVEY AND RELATED COSTS.
25. CONTRACTOR SHALL BE RESPONSIBLE FOR HIS/HER OWN MEASUREMENTS AND QUANTITIES. ENGINEER QUANTITIES ARE ESTIMATES ONLY.
26. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF UNDERGROUND UTILITIES BY THE APPROPRIATE UTILITY ENTITY. PROPER COORDINATION WITH THE RESPECTIVE UTILITY ENTITIES SHALL BE PERFORMED BY THE CONTRACTOR TO INSURE THAT ALL UTILITY ENTITY STANDARDS FOR MATERIAL AND METHODS ARE MET. THE GENERAL CONTRACTOR SHALL OVERSEE INSTALLATION OF UTILITIES AND COORDINATE WITH ALL SUBCONTRACTORS TO AVOID CONFLICTS.
27. THE CONTRACTOR SHALL PROVIDE AS–BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE OWNER FOLLOWING COMPLETION OF CONSTRUCTION ACTIVITIES.
28. THE CONTRACTOR SHALL PROVIDE TESTING, INSPECTIONS, AS–BUILT DRAWINGS, CERTIFICATIONS AND ANY OTHER PROCEDURES OR DOCUMENTATION REQUIRED BY THE GOVERNING AGENCIES TO CLOSE OUT THE PROJECT.
29. THE CONTRACTOR SHALL RESTORE ANY STRUCTURES, PIPE, UTILITY, PAVEMENT, CURBS SIDEWALKS, LANDSCAPED ARES, ETC. WITHIN THE SITE OR ADJOINING PROPERTIES DISTURBED DURING DEMOLITION OR CONSTRUCTION TO THEIR ORIGINAL CONDITION OF BETTER, AND TO THE SATISFACTION OF THE OWNER/JURISDICTIONAL AUTHORITY.
30. CONTRACTOR SHALL REFERENCE THE PROJECT GEOTECHNICAL REPORT AVAILABLE IN THE PROJECT MANUAL AND COMPLY WITH ALL REPORT REQUIREMENTS. IF A CONFLICT ARISES BETWEEN THE GEOTECHNICAL REPORT AND CIVIL DOCUMENTS, THE GEOTECHNICAL REPORT SHALL GOVERN.
31. FOR THE PURPOSES OF CONSTRUCTION SURVEY, ALL BUILDING DIMENSIONS SHALL BE VERIFIED WITH STRUCTURAL AND ARCHITECTURAL PLANS.
32. FIRE DEPARTMENT ACCESS ROADWAYS SHALL BE INSTALLED PRIOR TO VERTICAL CONSTRUCTION. FIRE ACCESS ROADWAYS SHALL BE INSTALLED AND MAINTAINED PER PUYALLUP FIRE DEPARTMENT REQUIREMENTS.
33. CONTRACTOR SHALL POST A FIRE DEPARTMENT ACCESS SIGN PER PUYALLUP FIRE DEPARTMENT REQUIREMENTS.
34. CONTRACTOR SHALL PROVIDE TEMPORARY FIRE EXTINGUISHERS ON SITE DURING CONSTRUCTION PER PUYALLUP FIRE DEPARTMENT REQUIREMENTS.
35. COMBUSTIBLE WASTE AND CONSTRUCTION DEBRIS SHALL BE KEPT TO A MINIMUM AND SHALL NOT BE LOCATED AS TO OBSTRUCT ANY ACCESS ROAD OR FIRE APPLIANCE.
36. ONCE VERTICAL CONSTRUCTION BEGINS OR ONCE COMBUSTIBLE MATERIALS ARE BROUGHT ONTO THE SITE, PER THE WASHINGTON FIRE CODE–CHAPTER 14, AN APPROVED WATER SUPPLY FOR FIRE PROTECTION SHALL BE INSTALLED AND APPROVED BY PUYALLUP FIRE DEPARTMENT, AND MAINTAINED OPERABLE THROUGHOUT THE CONSTRUCTION PROCESS.
37. APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF–SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS.
38. NON–STANDARD ITEMS (IE: PAVERS, IRRIGATION SYSTEMS, ETC.) IN THE RIGHT–OF–WAY REQUIRE A RIGHT–OF–WAY ENCROACHMENT AGREEMENT WITH THE PUYALLUP DEPARTMENT OF TRANSPORTATION/WASHINGTON DEPARTMENT OF TRANSPORTATION BEFORE INSTALLATION.

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.
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 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.
17. LOCATIONS AND TOP ELEVATIONS OF STRUCTURES MAY NEED TO BE ADJUSTED IN THE FIELD BY THE CONTRACTOR WHERE NECESSARY AND SHALL BE APPROVED BY THE ENGINEER. CONTRACTOR SHALL NOTE ALL CHANGES ON AS–BUILT DRAWINGS.
18. CONSTRUCTION OF THE SANITARY SEWER SYSTEM AND CONNECTION TO THE EXISTING SEWER SYSTEM SHALL MEET THE REQUIREMENTS OF AND SHALL BE INSTALLED UNDER THE DIRECTION OF THE CITY OF PUYALLUP.
19. CONTRACTOR SHALL CONFIRM LOCATION AND INVERT ELEVATION OF SEWER TIE–IN POINT PRIOR TO ANY SITE OR BUILDING CONSTRUCTION.
20. ROOF DRAINS, FOUNDATION DRAINS OR OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
21. SANITARY SEWER MAINS SHALL HAVE A 95% DIAMETER MANDREL PULLED TO CHECK FOR CRUSH.
22. PUBLIC SANITARY SEWER MAINS SHALL BE PRESSURE TESTED PER ASTM F–1417 (OR APPROVED EQUAL) IN THE PRESENCE OF THE ENGINEER.

WATER SYSTEM 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 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"), 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–OF–WAY 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 FILLING A NEW WATER MAIN FOR PURITY WITH HIGHLY CONCENTRATED CHLORINE WATER, THAT "SUPER" CHLORINATED WATER CANNOT SIT INSIDE THE NEW WATER MAIN FOR GREATER THAN 5 DAYS.
24. 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.
25. PVC WATER PIPE AND FITTINGS 4" AND LARGER SHALL MEET AWWA C–900.
26. FOR IRRIGATION MATERIALS AND REQUIREMENTS SEE IRRIGATION PLANS.
27. WATER METERS, BOXES, VAULTS AND BFP'S SHALL MEET THE REQUIREMENTS OF FRUITLAND MUTUAL WATER. CONTRACTOR SHALL CONFIRM ALL ITEMS AGAINST CURRENT LIST OF APPROVED DEVICES PRIOR TO ORDERING.
28. WATER WORK SHALL NOT BEGIN UNTIL AREAS OF WATERLINE CONSTRUCTION ARE ROUGH GRADED (WITHIN 1 FOOT OF FINISH GRADE) AND FILL AREAS ARE COMPLETED AND COMPACTED.
29. ALL PIPE AND APPURTENANCES INSTALLED ON A DEPRESSURIZED WATER MAIN ARE TO BE WIPED CLEAN AND ALL INTERIOR SURFACES SATURATED WITH A MINIMUM 1% CHLORINE SOLUTION.
30. CHLORINATED DISINFECTION WATER SHALL NOT BE DISCHARGED DIRECTLY INTO A STORM DRAINAGE SYSTEM OR SURFACE WATERS WITHOUT THE PRIOR USE OF APPROPRIATE DE–CHLORINATION METHODS.
31. SITE CONTRACTOR IS RESPONSIBLE FOR MAKING TIE–IN TO WATER AND SANITARY SEWER CONNECTIONS AT BUILDING. SEE ARCHITECTURAL AND MECHANICAL PLANS FOR EXACT LOCATIONS FOR BUILDING STUB OUTS AND FLOOR DRAINS.
32. ALL WATER LINES SHALL BE PRESSURE TESTED AT 150 PSI FOR TWO HOURS.

STORMWATER 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 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 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. DURING CONSTRUCTION, ALL EXISTING AND NEWLY INSTALLED DRAINAGE STRUCTURES SHALL BE PROTECTED FROM SEDIMENTS.
9. ALL STORM MANHOLES SHALL CONFORM TO CITY STANDARD DETAIL NO. 02.01.01. FLOW CONTROL MANHOLE/OIL WATER SEPARATOR SHALL CONFORM TO CITY STANDARD DETAIL NO. 02.01.06 AND 02.01.07.
10. MANHOLE RING AND COVER SHALL CONFORM TO CITY STANDARD DETAIL 06.01.02.
11. CATCH BASINS TYPE I SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.02 AND 02.01.03 AND SHALL BE USED ONLY FOR DEPTHS LESS THAN 5 FEET FROM TOP OF THE GRATE TO THE INVERT OF THE STORM PIPE.
12. CATCH BASINS TYPE II SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.04 AND SHALL BE USED FOR DEPTHS GREATER THAN 5 FEET FROM TOP OF THE GRATE TO THE INVERT OF THE STORM PIPE.
13. CAST IRON OR DUCTILE IRON FRAME AND GRATE SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.05. GRATE SHALL BE MARKED WITH "DRAINS TO STREAM". SOLID CATCH BASIN LIDS (SQUARE UNLESS NOTED AS ROUND) SHALL CONFORM TO WSDOT STANDARD PLAN B–30.20–04 (OLYMPIC FOUNDRY NO. SM60 OR EQUAL). VANED GRATES SHALL CONFORM TO WSDOT STANDARD PLAN B–30.30–03 (OLYMPIC FOUNDRY NO. SM60V OR EQUAL).
14. STORMWATER PIPE SHALL BE ONLY PVC, CONCRETE, DUCTILE IRON, OR DUAL WALLED POLYPROPYLENE PIPE.
    a. THE USE OF ANY OTHER TYPE SHALL BE REVIEWED AND APPROVED BY THE ENGINEERING SERVICES STAFF PRIOR TO INSTALLATION.
    b. PVC PIPE SHALL BE PER ASTM D3034, SDR 35 FOR PIPE SIZE 15–INCH AND SMALLER AND F679 FOR PIPE SIZES 18 TO 27 INCH. MINIMUM COVER ON PVC PIPE SHALL BE 3.0 FEET.
    c. CONCRETE PIPE SHALL CONFORM TO THE WSDOT STANDARD SPECIFICATIONS FOR CONCRETE UNDERDRAIN PIPE. MINIMUM COVER ON CONCRETE PIPE SHALL NOT LESS THAN 3.0 FEET.
    d. DUCTILE IRON PIPE SHALL BE CLASS 50, CONFORMING TO AWWA C151. MINIMUM COVER ON DUCTILE IRON PIPE SHALL BE 1.0 FOOT.
    e. POLYPROPYLENE PIPE (PP) SHALL BE DUAL WALLED, HAVE A SMOOTH INTERIOR AND EXTERIOR CORRUGATIONS AND MEET WSDOT 9–05.24(1). 12–INCH THROUGH 30–INCH PIPE SHALL MEET OR EXCEED ASTM F2736 AND AASHTO M330, TYPE S, OR TYPE D. 36–INCH THROUGH 60–INCH PIPE SHALL MEET OR EXCEED ASTM F2881 AND AASHTO M330, TYPE S, OR TYPE D. TESTING SHALL BE PER ASTM F1417. MINIMUM COVER OVER POLYPROPYLENE PIPE SHALL BE 3–FEET.
15. TRENCHING, BEDDING, AND BACKFILL FOR PIPE SHALL CONFORM TO CITY STANDARD DETAIL NO. 06.01.01.
16. STORM PIPE SHALL BE A MINIMUM OF 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.
17. ALL STORM DRAIN MAINS SHALL BE TESTED AND INSPECTED FOR ACCEPTANCE AS OUTLINED IN SECTION 406 OF THE CITY OF PUYALLUP SANITARY SEWER SYSTEM STANDARDS.
18. ALL TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES, AND PROTECTIVE MEASURES FOR CRITICAL AREAS AND SIGNIFICANT TREES SHALL BE INSTALLED PRIOR TO INITIATING ANY CONSTRUCTION ACTIVITIES.
19. POLY STORM SEWER SHALL BE ADS HP STORM "GRAY PIPE" OR APPROVED EQUAL.
20. INVERTS SHOWN ON PLAN DRAWINGS ARE PIPE INVERTS UNLESS NOTED OTHERWISE.
21. ANY SUBSTITUTION FOR MATERIALS OR PROCEDURES MUST HAVE PRIOR WRITTEN APPROVAL OF THE CITY AND THE PROJECT ENGINEER.
22. CONTRACTOR SHALL VERIFY LOCATION, TYPE, AND INVERTS OF EXISTING STORMWATER PIPES AND STRUCTURES AT TIE–IN LOCATIONS. CONTRACTOR IS RESPONSIBLE TO VERIFY BEFORE ORDERING MATERIALS TO MAKE THE NEW CONNECTIONS AND ADJUST EXISTING MANHOLE TO FINISHED GRADE. SHOULD FIELD CONDITIONS DIFFER FROM THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER & ENGINEER.

△1 CITY COMMENTS – 07–13–21
- REVISED PLAN APPROVAL NOTE PER CoP ENGINEERING GENERAL NOTE 5
- ADDED CoP STANDARD NOTES
- ADDED CoP APPROVAL STAMPS

APPROVED

BY______________________
CITY OF PUYALLUP
ENGINEERING SERVICES

DATE____________________

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.

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

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

No.	Date	By	Ckd.	Appr.	Revision
△1	2/10/25	DC	DD	DD	REVISED PER SITE PLAN CHANGES

Title: GENERAL NOTES - ASBUILT

HOMEWOOD SUITES

For: HERITAGE INN & SUITES OF PUYALLUP, LLC
4500 36TH AVE. S, SUITE 200
FARGO, NE 58104

8/29/25

Scale: Horizontal N/A; Vertical N/A

Designed DC
Drawn DC
Checked DD
Approved DD
Date 8/29/25

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number 22507

Sheet C-2 of 8

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GRADING, EROSION AND SEDIMENTATION CONTROL NOTES:

4. 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.
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6. 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 (HERINAFTER REFERRED TO AS THE "CITY STANDARDS").
7. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
8. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE CITY ENGINEER PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
9. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS HOURS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
10. ALL LIMITS OF CLEARING AND AREAS OF VEGETATION PRESERVATION AS PRESCRIBED ON THE PLANS SHALL BE CLEARLY FLAGGED IN THE FIELD AND OBSERVED DURING CONSTRUCTION.
11. ALL REQUIRED SEDIMENTATION AND EROSION CONTROL FACILITIES MUST BE CONSTRUCTED AND IN OPERATION PRIOR TO ANY LAND CLEARING AND/OR OTHER CONSTRUCTION TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE NATURAL DRAINAGE SYSTEM. THE CONTRACTOR SHALL SCHEDULE AN INSPECTION OF THE EROSION CONTROL FACILITIES PRIOR TO ANY LAND CLEARING AND/OR OTHER CONSTRUCTION. ALL EROSION AND SEDIMENT FACILITIES SHALL BE MAINTAINED IN A SATISFACTORY CONDITION AS DETERMINED BY THE CITY, UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED. THE IMPLEMENTATION, MAINTENANCE, REPLACEMENT, AND ADDITIONS TO THE EROSION AND SEDIMENTATION CONTROL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE PERMITTEE.
12. THE EROSION AND SEDIMENTATION CONTROL SYSTEM FACILITIES DEPICTED ON THESE PLANS ARE INTENDED TO BE MINIMUM REQUIREMENTS TO MEET ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND UNEXPECTED OR SEASONAL CONDITIONS DICTATE, FACILITIES WILL BE NECESSARY TO ENSURE COMPLETE SILTATION CONTROL ON THE SITE. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE PERMITTEE TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES, OVER AND ABOVE THE MINIMUM REQUIREMENTS, AS MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.
13. APPROVAL OF THESE PLANS IS FOR GRADING, TEMPORARY DRAINAGE, EROSION AND SEDIMENTATION CONTROL ONLY. IT DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT STORM DRAINAGE DESIGN, SIZE OR LOCATION OF PIPES, RESTRICTORS, CHANNELS, OR RETENTION FACILITIES.
14. ANY DISTURBED AREA WHICH HAS BEEN STRIPPED OF VEGETATION AND WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 30 DAYS OR MORE, MUST BE IMMEDIATELY STABILIZED WITH MULCHING, GRASS PLANTING, OR OTHER APPROVED EROSION CONTROL TREATMENT APPLICABLE TO THE TIME OF YEAR IN QUESTION. GRASS SEEDING ALONE WILL BE ACCEPTABLE ONLY DURING THE MONTHS OF APRIL THROUGH SEPTEMBER INCLUSIVE. SEEDING MAY PROCEED OUTSIDE THE SPECIFIED TIME PERIOD WHENEVER IT IS IN THE INTEREST OF THE PERMITTEE BUT MUST BE AUGMENTED WITH MULCHING, NETTING, OR OTHER TREATMENT APPROVED BY THE CITY.
15. IN CASE EROSION OR SEDIMENTATION OCCURS TO ADJACENT PROPERTIES, ALL CONSTRUCTION WORK WITHIN THE DEVELOPMENT THAT WILL FURTHER AGGRAVATE THE SITUATION MUST CEASE, AND THE OWNER/CONTRACTOR WILL IMMEDIATELY COMMENCE RESTORATION METHODS. RESTORATION ACTIVITY WILL CONTINUE UNTIL SUCH TIME AS THE AFFECTED PROPERTY OWNER IS SATISFIED.
16. NO TEMPORARY OR PERMANENT STOCKPILING OF MATERIALS OR EQUIPMENT SHALL OCCUR WITHIN CRITICAL AREAS OR ASSOCIATED BUFFERS, OR THE CRITICAL ROOT ZONE FOR VEGETATION PROPOSED FOR RETENTION.
17. LOCATION AND TOP ELEVATIONS OF INLETS AND STRUCTURES MAY NEED TO BE ADJUSTED IN THE FIELD BY THE CONTRACTOR WHERE NECESSARY AND SHALL BE APPROVED BY THE ENGINEER. CONTRACTOR SHALL NOTE ANY CHANGES IN AS-BUILT DRAWINGS.
18. IF UNSUITABLE SUBGRADE MATERIALS ARE ENCOUNTERED, THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT (FROM OFF-SITE BORROW MATERIAL) OF ALL UNSUITABLE MATERIAL TO CLASSIFIED AS MH, CH, OH, OL AND PEAT IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM, UNLESS APPROVED IN WRITING BY THE PROJECT GEOTECHNICAL ENGINEER. THE SITE ENGINEER AND GEOTECHNICAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY UPON ENCOUNTERING UNSUITABLE SUBGRADE MATERIAL.
19. THE CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATIONS AND GRADING INCLUDING FURNISHING OFF-SITE BORROW AND DISPOSING OF EXCESS MATERIAL AS REQUIRED TO MEET PLAN GRADES. OFF SITE BORROW SHALL MEET ALL REQUIREMENTS OF THE PROJECT GEOTECHNICAL REPORT (IF AVAILABLE) OR PER WSDOT STANDARD SPECIFICATIONS.
20. COMPACTION LIFTS AND TESTING SHALL BE PER WSDOT REQUIREMENTS IN TRENCHING, SUB-BASE, BASE, AND PAVING MATERIALS. SUB-BASE LIFTS SHALL NOT EXCEED 12". BASE LIFTS SHALL NOT EXCEED 6".
21. CONTRACTOR SHALL UNIFORMLY GRADE BEHIND CURBS TO MATCH EXISTING GRADES AT PROPERTY LINES.
22. GRADE TO ENSURE POSITIVE DRAINAGE. ALL FINISHED SURFACES SHALL BE FREE FROM SURFACE IRREGULARITIES.

PAVING NOTES:

1. ALL PAVEMENT SECTION MATERIALS AND INSTALLATION SHALL MEET THE REQUIREMENTS OF WSDOT.
2. AGGREGATE BASE COURSE SHALL MEET THE REQUIREMENTS OF WSDOT.
3. CONCRETE FOR FLAT WORK SHALL BE A BATCH PLANT MIX MEETING THE REQUIREMENTS OF THE WSDOT STANDARD SPECIFICATIONS. (MINIMUM 4,000 PSI)
4. HOT BITUMINOUS PAVEMENT SHALL BE A PLANT MIX MEETING THE REQUIREMENTS OF THE WSDOT STANDARD SPECIFICATIONS (LATEST EDITION).
5. PAINTED PARKING STRIPING SHALL BE WATER BASED 4" IN WIDTH YELLOW STRIPES AND BE LOCATED AS SHOWN ON THE PLANS. ACCESSIBLE PARKING STRIPING SHALL BE BLUE AND PER ADA REQUIREMENTS. GORE AREA LINES SHALL BE PAINTED AT 45 DEGREES AND SHALL HAVE A SPACING OF 3'. CURE COMPOUND SHALL BE REMOVED BY SANDBLASTING, GRINDING, OR OTHER APPROVED METHOD BEFORE INSTALLATION OF PAVEMENT MARKINGS ON CONCRETE TO ENSURE PROPER ADHESION OF THE PAINT. ALL WORK SHALL BE IN ACCORDANCE WITH THE WSDOT REQUIREMENTS.
6. SIDEWALK WITHIN THE CITY'S R/W THAT REQUIRES REPLACEMENT AS PART OF THE DEVELOPMENT AND/OR STREET IMPROVEMENTS SHOULD BE PHASED IN SUCH A WAY AS TO MINIMIZE THE DURATION OF THE SIDEWALK CLOSURE TO THE EXTENT FEASIBLE. THE DEVELOPER SHOULD MAKE EVERY ATTEMPT TO HAVE SIDEWALK REPAIRED AND REOPENED FOR PUBLIC USE WITHIN 30 DAYS OF REMOVAL.

TEMPORARY TRAFFIC CONTROL NOTES:

1. UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AN ATSSA CERTIFIED TRAFFIC CONTROL SUPERVISOR (TCS) AND ANY NECESSARY TEMPORARY TRAFFIC CONTROL DEVICES ON AND OFF-SITE INCLUDING OBTAINING ANY APPLICABLE PERMITS. THE CONTRACTOR SHALL IDENTIFY THE TCS AND PROVIDE PROOF OF CERTIFICATION AT A PRECONSTRUCTION MEETING.
2. CONTRACTOR IS RESPONSIBLE TO INSTALL, INSPECT, MAINTAIN, AND REMOVE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE LATEST STANDARDS AND REQUIREMENTS OF THE MUTCD, STANDARD HIGHWAY SIGNS AND MARKINGS BOOK PUBLISHED BY THE FHWA, AND LOCAL REGULATIONS.
3. CHANGES TO THE TEMPORARY TRAFFIC CONTROL PLAN SHALL NOT BE MADE WITHOUT APPROVAL FROM THE PERMITTING AUTHORITY.
4. RIGHT-OF-WAY CLOSURES LONGER THAN 30 DAYS REQUIRE A R/W LEASE AGREEMENT WHICH WILL INCLUDE THE SUBMITTAL OF A TRAFFIC CONTROL PLAN. TRAFFIC CONTROL PLANS REQUIRED THROUGH A LEASE AGREEMENT MAY BE DIFFERENT FROM THE ONE REQUIRED DURING THE LAND DEVELOPMENT PLAN REVIEW AND ARE SUBJECT TO REVISIONS. THE REVISED TRAFFIC CONTROL PLANS MUST BE SUBMITTED AS PART OF THE LEASE AGREEMENT PROCESS FOR APPROVAL PRIOR TO START OF R/W CLOSURES. CONTRACTOR SHALL CONTACT WSDOT AT (704) 336-8348.

LEGEND

EX. LIGHT POLE	BORING LOCATION	FO FO	EX. FIBER OPTIC
NEW LIGHT POLE	EX. SIGN	GAS	EX. GAS LINE
EX. POWER POLE	NEW SIGN	UGE	EX. ELECTRIC
NEW GREASE TRAP	NEW PROPERTY PIN SET	OHE	EX. OVERHEAD ELECTRIC
NEW CLEAN OUT	EX. PROPERTY PIN FOUND	CATV	EX. CABLE TV
EX. SANITARY MANHOLE	RIGHT OF WAY MARKER	T T	EX. TELEPHONE
NEW SANITARY MANHOLE	HIGH WATER LINE	2452	EX. CONTOUR
EX. STORM MANHOLE	PARKING COUNT	2455	NEW CONTOUR
NEW STORM MANHOLE	DS DOWN SPOUT		CENTER LINE/SECTION LINE
EX. STORM CATCH BASIN	EXPANSION JOINT (EJ)		GRADE BREAK/DRAINAGE AREAS
NEW STORM CATCH BASIN	X X EX. FENCE		NEW TRACKS
EX. CULVERT FLARE END	X X NEW FENCE		EX. TRACKS
NEW CULVERT FLARE END	EX. GUARDRAIL		EX. ASPHALT PAVEMENT
EX. HEADWALL	SET BACK		NEW ASPHALT PAVEMENT
NEW HEADWALL	EX. EASEMENT		EX. CONCRETE PAVEMENT
EX. GATE VALVE	NEW EASEMENT		NEW CONCRETE PAVEMENT
NEW GATE VALVE	EX. PROPERTY LINE		EX. GRAVEL SURFACE
EX. WATERLINE FITTINGS	NEW ROW/PROPERTY LINE		NEW GRAVEL SURFACE
NEW WATERLINE FITTINGS	PROPERTY BOUNDARY LINE		EX. SIDEWALK/FLATWORK
NEW TAPPING SLEEVE & VALVE	EX. CURB		NEW SIDEWALK/FLATWORK
EX. HYDRANT	NEW CURB(INFLOW)		ACCESSIBLE (ADA) RAMP
NEW HYDRANT & VALVE	NEW CURB(OUTFLOW)		STRIPING CROSSWALK
EX. STUMP	RW EX. RETAINING WALL		STRIPING ADA ACCESSIBLE
EX. SHRUB	RW NEW RETAINING WALL		STRIPING TURN ARROWS
EX. DECIDUOUS TREE	S S EX. SANITARY SEWER		SEEDING & HYDROMULCH
EX. CONIFEROUS TREE	S S NEW SANITARY SEWER		
NEW SHRUB	SFM EX. SANITARY FORCE MAIN		
NEW DECIDUOUS TREE	SFM NEW SANITARY FORCE MAIN		
NEW CONIFEROUS TREE	W W EX. WATER		
E.T. EX. ELECTRICAL TRANSFORMER	W W NEW WATER		
T.P. EX. TELEPHONE PEDESTAL	ST ST EX. STORM SEWER		
E.O. EX. ELECTRICAL OUTLET	ST ST NEW STORM SEWER		
U.P. EX. UTILITY PEDESTAL	DT DT EX. DRAIN TILE		
E ELEC MANHOLE EXIST	DT DT NEW DRAIN TILE		
	STFM EX. STORM FORCE MAIN		
	STFM NEW STORM FORCE MAIN		

ABBREVIATIONS

ADJ	ADJACENT	ELEV	ELEVATION	P.C.	PRECAST CONCRETE
ALT	ALTERNATE	ENCL	ENCLOSURE	PVIE	POINT OF VERTICAL INTERSECTION ELEVATION
ARCH	ARCHITECT	E.O.P.	END OF PROJECT	PVIS	POINT OF VERTICAL INTERSECTION STATION
ACP	ASBESTOS CEMENT PIPE	E.J.	EXPANSION JOINT	PREFAB	PREFABRICATED
BIT	BITUMINOUS	EX.	EXISTING	PSI	POUNDS PER SQUARE INCH
BLDG	BUILDING	EX.A.	EACH WAY	PVC	POLYVINYL CHLORIDE PIPE
BM	BENCHMARK	EVCE	END VERTICAL CURVE ELEVATION	PP	POWER POLE
B.O.	BY OWNER/BY OTHERS			R	RADIUS
B.O.P.	BEGINNING OF PROJECT	EVCS	END VERTICAL CURVE STATION	RCP	REINFORCED CONCRETE PIPE
BV	BUTTERFLY VALVE	FD	FIRE DEPARTMENT	RD	ROOF DRAIN
BVCE	BEGINNING VERTICAL CURVE ELEVATION	FFE	FIRST FLOOR ELEVATION	REQ'D	REQUIRED
		FO	FIBER OPTICS	RIM	RIM OF INLET OR CASTING
BVCS	BEGINNING VERTICAL CURVE STATION	FTG	FOOTING	ROW	RIGHT OF WAY
		G.C.	GENERAL CONTRACTOR	SAN	SANITARY
C	CIVIL	GALV	GALVANIZED	SS	SANITARY SEWER
B.P.	CAST IRON	GAL	GALLON	ST	STORM
CIP	CAST IRON PIPE	GRAN	GRANULAR	STD	STANDARD
CU	COPPER	GV	GATE VALVE	SB	SOIL BORING
CMP	CORRUGATED METAL PIPE	HDPE	HIGH DENSITY POLYETHYLENE	STRUCT	STRUCTURAL
CJ	CONTROL JOINT	HORZ	HORIZONTAL	SF	SQUARE FEET
CONC	CONCRETE	HB	HOSE BIB	SCH	SCHEDULE
CF	CUBIC FEET	HDCP	HANDICAPPED	SW	SIDEWALK
CS	CURB STOP	HYD	HYDRANT	T	TELEPHONE
C.O.	CLEAN OUT	I	INLET	TYP	TYPICAL
CNTR	CENTER	K	CURVATURE VALUE	UNEX	UN-EXCAVATED
CONST	CONSTRUCTION	M	MECHANICAL	UE	UTILITY EASEMENT
CONTR	CONTRACTOR	MH	MANHOLE	UGE	UNDERGROUND ELECTRIC
CY	CUBIC YARD	MAX	MAXIMUM	UNO	UNLESS NOTED OTHERWISE
DIA	DIAMETER	MIN	MINIMUM	VERT	VERTICAL
DIP	DUCTILE IRON PIPE	M.J.	MECHANICAL JOINT	V	VERIFY
DEMO	DEMOLITION	MISC.	MISCELLANEOUS	VCL	VERTICAL CURVE LENGTH
DTL	DETAIL	NC	NON-CORROSIVE	VOL	VOLUME
DIM	DIMENSION	NOM	NOMINAL	VCP	VITRIFIED CLAY PIPE
DOM	DOMESTIC	NIC	NOT IN CONTRACT	W/	WITH
D.S.	DOWN SPOUT	NTS	NOT TO SCALE	W/O	WITH OUT
DWG	DRAWING	OD	OUTSIDE DIMENSION	WTH	WIDTH
DWL	DOWEL	OCEW	ON CENTER EACH WAY	W	WATER
EA	EACH	OC	ON CENTER		
ELEC	ELECTRIC	OHE	OVERHEAD ELECTRIC		

1 CITY COMMENTS - 07-13-21
- REVISED PLAN APPROVAL NOTE PER CoP ENGINEERING GENERAL NOTE 5
- ADDED CoP STANDARD NOTES
- ADDED CoP APPROVAL STAMP

APPROVED

BY_____
CITY OF PUYALLUP
ENGINEERING SERVICES

DATE_____

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.

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

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

No.	Date	By	Chd.	Appr.	Revision
1	2/10/25	DC	DD	DD	REVISED PER SITE PLAN CHANGES

Title: GENERAL NOTES - ASBUILT

HOMEWOOD SUITES

For: HERITAGE INN & SUITES OF PUYALLUP, LLC
4500 36TH AVE. S, SUITE 200
FARGO, NE 58104

DON E. DAWES — STATE OF WASHINGTON — 42009 — REGISTERED PROFESSIONAL ENGINEER
8/29/25

Scale: Horizontal N/A Vertical N/A

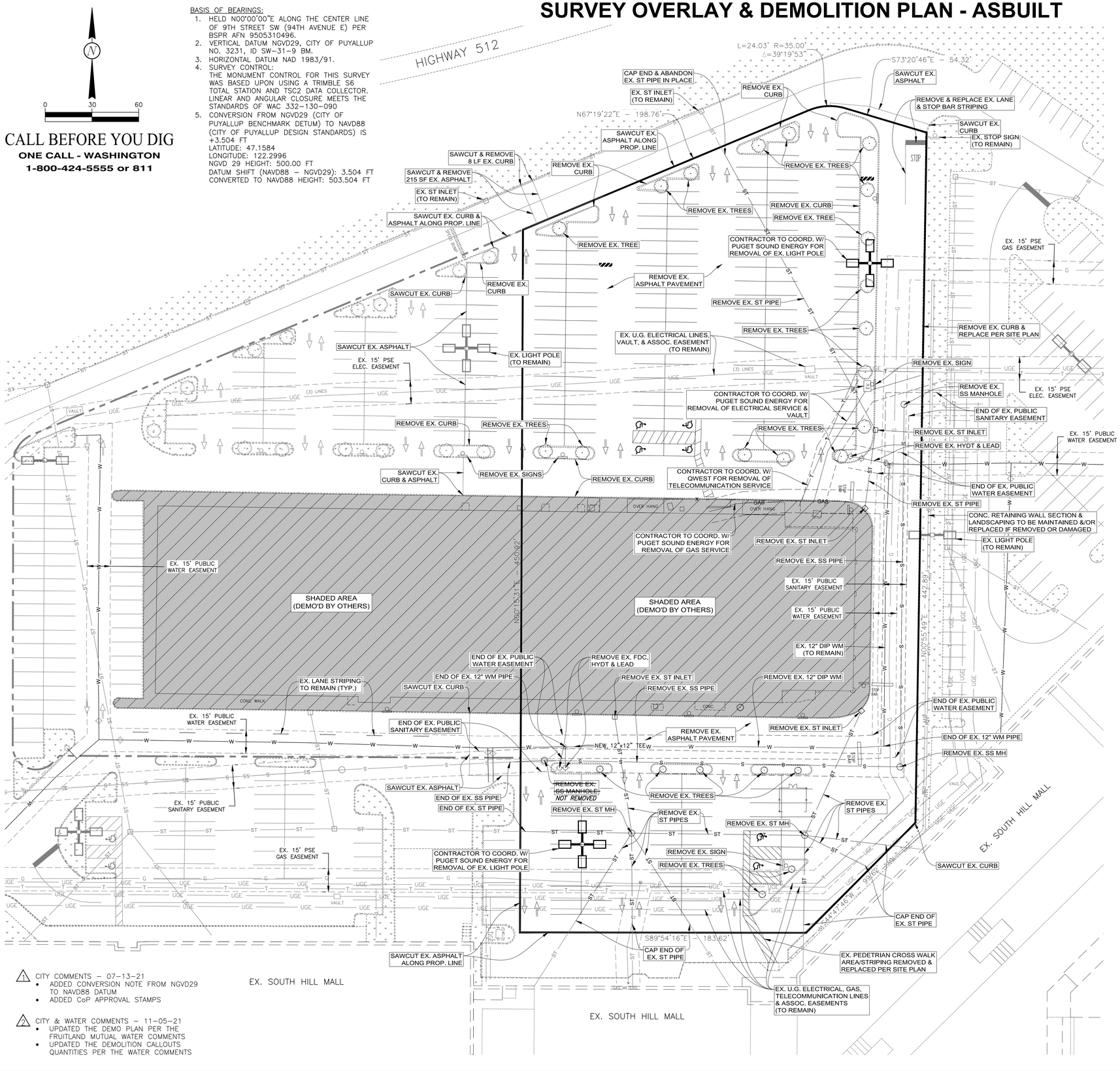
Designed DC Drawn DC Checked DD Approved DD Date 8/29/25

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222 barghausen.com

Job Number 22507

Sheet C-2.1 8 of

SURVEY OVERLAY & DEMOLITION PLAN - ASBUILT



BASIS OF BEARINGS:

1. HELD N00°00'00"E ALONG THE CENTER LINE OF 9TH STREET SW (94TH AVENUE E) PER BSPR AFN 9505310496.
2. VERTICAL DATUM NGVD29, CITY OF PUYALLUP NO. 3231, ID SW-31-9 BM.
3. HORIZONTAL DATUM NAD 1983/91.
4. SURVEY CONTROL:
   THE MONUMENT CONTROL FOR THIS SURVEY WAS BASED UPON USING A TRIMBLE S6 TOTAL STATION AND TSC2 DATA COLLECTOR. LINEAR AND ANGULAR CLOSURE MEETS THE STANDARDS OF WAC 332-130-090
5. CONVERSION FROM NGVD29 (CITY OF PUYALLUP BENCHMARK DETUM) TO NAVD88 (CITY OF PUYALLUP DESIGN STANDARDS) IS +3.504 FT
   LATITUDE: 47.1584
   LONGITUDE: 122.2996
   NGVD 29 HEIGHT: 500.00 FT
   DATUM SHIFT (NAVD88 - NGVD29): 3.504 FT
   CONVERTED TO NAVD88 HEIGHT: 503.504 FT

0 30 60

CALL BEFORE YOU DIG
ONE CALL - WASHINGTON
1-800-424-5555 or 811

DEMOLITION CALLOUTS		
ITEM	QUANTITY	UNIT
REMOVE EX. TREE	24	EA
REMOVE EX. ASPHALT PAVEMENT	10,556	SY
REMOVE EX. CURB	2,570	LF
REMOVE EX. SIGN	6	EA
REMOVE EX. LIGHT POLE	2	EA
REMOVE EX. GAS SERVICE	118	LF
REMOVE EX. TELEPHONE SERVICE	132	LF
REMOVE EX. ELECTRICAL SERVICE	113	LF
REMOVE EX. ELECTRICAL JUNCTION BOX	1	EA
REMOVE EX. WATER SERVICE	27	LF
REMOVE EX. 12" DIP WATER MAIN	204	LF
REMOVE EX. 6" GATE VALVE	2	EA
REMOVE EX. FIRE DEPARTMENT CONNECTION	1	EA
REMOVE EX. HYDRANT W/ LEAD	2	EA
REMOVE EX. 8" PVC SANITARY PIPE	483	LF
REMOVE EX. SANITARY MANHOLE	3	EA
REMOVE EX. 6" PVC STORM PIPE	348	LF
REMOVE EX. 12" PVC STORM PIPE	327	LF
REMOVE EX. 18" PVC STORM PIPE	267	LF
REMOVE EX. STORM INLET	4	EA
REMOVE EX. STORM MANHOLE	2	EA

REMOVAL AREAS BY OTHERS

DEMOLITION NOTES:

1. CONCRETE CURB AND GUTTER TO BE REMOVED SHALL BE SAW CUT IN FULL SECTIONS.
2. CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT FOR REMOVAL. PAVEMENT SHALL BE REMOVED IN FULL SECTIONS.
3. ALL STRUCTURES AND HARD SURFACES (CONCRETE & ASPHALT) INSIDE THE PROPERTY BOUNDARY AND EASEMENTS SHOWN SHALL BE REMOVED. THE CONTRACTOR IS ENCOURAGED TO VISIT THE SITE IN ORDER TO BID APPROPRIATELY.
4. QUANTITIES SHOWN AS ESTIMATES ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL QUANTITIES. THE CONTRACTOR SHALL BE AWARE THAT THE SURFACE OF THE SITE CONTAINS VARIOUS HARD SURFACES & ITEMS THAT ARE DIFFICULT TO SPECIFICALLY QUANTIFY.
5. IF ANY PAVEMENT THAT IS NOT SUPPOSED TO BE REMOVED IS DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL SAW CUT AND PATCH THE PAVEMENT AT OWN EXPENSE.
6. LIMITS OF STREET PATCHING AND PATCHING REQUIREMENTS SHALL BE VERIFIED WITH THE CITY OF PUYALLUP.
7. CONTRACTOR RESPONSIBLE FOR DISPOSING ALL WASTE MATERIALS OFFSITE IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL LAWS. THIS INCLUDES BUT IS NOT LIMITED TO" WASTE GENERATED FROM DEMOLITION AND REMOVALS, ORGANIC MATTER, METAL, ASPHALT, CONCRETE, AGGREGATE, ETC.
8. CONTRACTOR TO COORDINATE REMOVAL OF EXISTING LIGHT POLES & ELECTRICAL/GAS SERVICES WITH LOCAL UTILITY PROVIDER, PUGET SOUND ENERGY, (888)321-7779.
9. CONTRACTOR TO COORDINATE REMOVAL OF EXISTING TELECOMMUNICATION SERVICE WITH LOCAL UTILITY PROVIDER, QWEST, (800)526-3557.
10. CONTRACTOR TO COORDINATE REMOVAL & CAPPING AT THE MAIN OF EXISTING WATER SERVICE WITH LOCAL UTILITY PROVIDER, FRUITLAND MUTUAL WATER, (253)848-5519.
11. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AS REQUIRED ALONG ADJACENT ROADWAYS DURING EXCAVATION.
12. CONTRACTOR SHALL MAINTAIN THE EXISTING CONCRETE RETAINING WALL & ASSOCIATED LANDSCAPING ALONG THE EASTERN PROPERTY LINE DURING ALL CONSTRUCTION ACTIVITIES. IF THE EXISTING WALL &/OR LANDSCAPING IS DAMAGED OR REMOVED THE CONTRACTOR MUST REPLACE AT OWN EXPENSE.
13. SUBJECT PROPERTY LIES IN "OTHER AREAS-ZONE X" PER FEMA FLOOD INSURANCE RATE MAP No. 53053C0341E REVISED MARCH 7, 2017. "OTHER AREAS-ZONE X" IS DESCRIBED AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANGE FLOODPLAIN.
14. ALTA SURVEY CONDUCTED BY TRUE POINT SURVEYING ON 7/25/2018.

WATER SEQUENCING:

1. CONTRACTOR SHALL LIVE TAP AT BOTH ENDS OF EXISTING 12" DUCTILE IRON PIPE (DIP) WATER MAIN; SHUT OFF WATER; MAINTAIN EXISTING WATER LOOP AS NECESSARY.
2. CONTRACTOR SHALL CONSTRUCT PROPOSED WATER SYSTEM AS SHOWN ON THE WATER & SANITARY UTILITY PLAN SHEET C-4.
3. CONTRACTOR SHALL TEST NEW WATER SYSTEM FROM LIVE TAP TO LIVE TAP LOCATIONS PER FRUITLAND MUTUAL WATER'S STANDARDS. ONCE TESTING PASSES SHUT DOWN EXISTING LOOP. CAP JUST INSIDE EACH LIVE TAP LOCATION.
4. CONTRACTOR SHALL REMOVE/DECOMMISSION EXISTING WATER PIPE PER DEMOLITION PLAN.

APPROVED

BY_____
CITY OF PUYALLUP
ENGINEERING SERVICES

DATE_____

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.

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

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

APPROVED

BY_____
WATER PURVEYOR

DATE_____

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.

WATER PURVEYOR WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.

FIELD CONDITIONS MAY DICTATE CHANGES TO THE PLANS AS DETERMINED BY THE WATER PURVEYOR.

1 CITY COMMENTS - 07-13-21
- ADDED CONVERSION NOTE FROM NGVD29 TO NAVD88 DATUM
- ADDED CoP APPROVAL STAMPS

2 CITY & WATER COMMENTS - 11-05-21
- UPDATED THE DEMO PLAN PER THE FRUITLAND MUTUAL WATER COMMENTS
- UPDATED THE DEMOLITION CALLOUTS QUANTITIES PER THE WATER COMMENTS

No.	Date	By	Chd.	Appr.	Revision
2	2/10/25	DC	DD	DD	REVISED PER SITE PLAN CHANGES

Title: SURVEY OVERLAY & DEMOLITION PLAN - ASBUILT

HOMEWOOD SUITES

For: HERITAGE INN & SUITES OF PUYALLUP, LLC
4500 36TH AVE. S, SUITE 200
FARGO, NE 58104

DON E. DAWES — STATE OF WASHINGTON — 42009 — REGISTERED PROFESSIONAL ENGINEER
8/29/25

Scale: Horizontal 1"=60' Vertical N/A

Designed DC Drawn DC Checked DD Approved DD Date 8/29/25

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number 22507

Sheet C-3 of 8

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SANITARY & WATER UTILITY PLAN - ASBUILT

<u>BASIS OF BEARINGS:</u>

1. HELD N00°00'00"E ALONG THE CENTER LINE OF 9TH STREET SW (94TH AVENUE E) PER BSPR AFN 9505310496.
2. VERTICAL DATUM NGVD29, CITY OF PUYALLUP NO. 3231, ID SW-31-9 BM.
3. HORIZONTAL DATUM NAD 1983/91.
4. SURVEY CONTROL:
   THE MONUMENT CONTROL FOR THIS SURVEY WAS BASED UPON USING A TRIMBLE S6 TOTAL STATION AND TSC2 DATA COLLECTOR. LINEAR AND ANGULAR CLOSURE MEETS THE STANDARDS OF WAC 332-130-090
5. CONVERSION FROM NGVD29 (CITY OF PUYALLUP BENCHMARK DETUM) TO NAVD88 (CITY OF PUYALLUP DESIGN STANDARDS) IS +3.504 FT
   LATITUDE: 47.1584
   LONGITUDE: 122.2996
   NGVD 29 HEIGHT: 500.00 FT
   DATUM SHIFT (NAVD88 – NGVD29): 3.504 FT
   CONVERTED TO NAVD88 HEIGHT: 503.504 FT

N

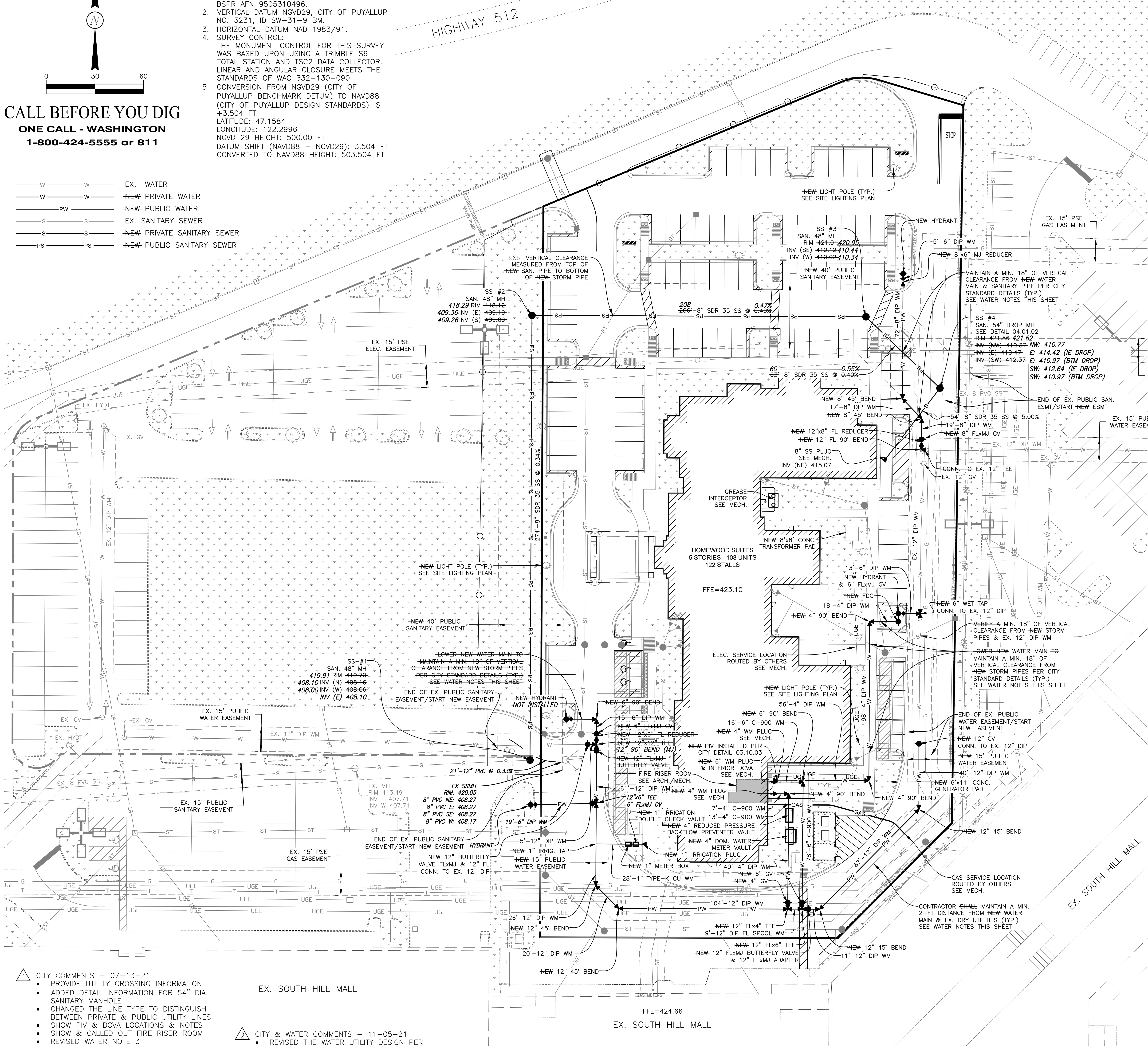
0 30 60

CALL BEFORE YOU DIG

ONE CALL - WASHINGTON

1-800-424-5555 or 811

——W——W——	EX. WATER
——W——W——	~~NEW~~ PRIVATE WATER
——PW——	~~NEW~~ PUBLIC WATER
——S——S——	EX. SANITARY SEWER
——S——S——	~~NEW~~ PRIVATE SANITARY SEWER
——PS——PS——	~~NEW~~ PUBLIC SANITARY SEWER



1 CITY COMMENTS – 07-13-21
- PROVIDE UTILITY CROSSING INFORMATION
- ADDED DETAIL INFORMATION FOR 54" DIA. SANITARY MANHOLE
- CHANGED THE LINE TYPE TO DISTINGUISH BETWEEN PRIVATE & PUBLIC UTILITY LINES
- SHOW PIV & DCVA LOCATIONS & NOTES
- SHOW & CALLED OUT FIRE RISER ROOM
- REVISED WATER NOTE 3
- ADDED CoP APPROVAL STAMPS

2 CITY & WATER COMMENTS – 11-05-21
- REVISED THE WATER UTILITY DESIGN PER THE FRUITLAND MUTUAL WATER REDLINES

ESTIMATED WATER QUANTITIES

ITEM	QUANTITY	UNIT
1" TYPE-K COPPER SERVICE	28	LF
4" DIP WM	212	LF
4" C-900 WM	27	LF
6" DIP WM	52	LF
6" C-900 WM	94	LF
8" DIP WM	108	LF
12" DIP WM	363	LF
8" 45° BEND	2	EA
12" 45° BEND	4	EA
4" 90° BEND	3	EA
6" 90° BEND	2	EA
12" 90° BEND	1	EA
12"x4" TEE	1	EA
12"x6" TEE	1	EA
12"x12" TEE	1	EA
4" GATE VALVE	1	EA
6" GATE VALVE	3	EA
8" GATE VALVE	1	EA
12" GATE VALVE	4	EA
8"x6" REDUCER	1	EA
12"x6" REDUCER	1	EA
12"x8" REDUCER	1	EA
12"x6" WET TAP	1	EA
REMOTE FDC	1	EA
FIRE HYDRANT	3	EA
POST INDICATOR VALVE	1	EA
1" IRRIGATION DOUBLE CHECK METER VAULT	1	EA
1" WATER METER BOX	1	EA
4" WATER SERVICE METER VAULT	1	EA
4" REDUCED PRESSURE BACKFLOW PREVENTER	1	EA
CONNECT TO EXISTING 12" WM	2	EA

ESTIMATED SANITARY QUANTITIES

ITEM	QUANTITY	UNIT
8" SDR-35 SANITARY SERVICE PIPE	597	LF
STANDARD SANITARY MANHOLE	3	EA
SANITARY DROP MANHOLE	1	EA
CONNECT TO EXISTING	2	EA

<u>WATER NOTES:</u>

1. BUILDING WATER CONNECTIONS PER MECHANICAL.
2. EXISTING WATER MAIN VALVE RIMS & STEMS ~~ARE TO BE~~ RAISED OR LOWERED TO FINAL GRADE, AS NEEDED.
3. ALL WATER INFRASTRUCTURE ~~SHALL BE~~ CONSTRUCTED IN ACCORDANCE WITH THE CITY OF PUYALLUP & FRUITLAND WATER STANDARD CONSTRUCTION DETAILS. SEE UTILITY DETAILS SHEETS FOR MORE INFO.
4. CONTRACTOR ~~SHALL~~ REQUEST AS-BUILT PLANS FROM THE CITY OF PUYALLUP & DRY UTILITY COMPANIES PRIOR TO EXCAVATING.
5. CONTRACTOR ~~TO~~ COORDINATE ALL WATER MAIN RELOCATES WITH FRUITLAND WATER & SOUTH HILL MALL MANAGEMENT STAFF. INSPECTION OF ~~INSTALLED~~ PUBLIC WATER MAIN ~~SHALL BE~~ COORDINATED WITH FRUITLAND WATER.
6. PIPE TRENCHING, BEDDING, & BACKFILL ~~SHALL BE~~ IN ACCORDANCE WITH CITY OF PUYALLUP STANDARD CONSTRUCTION DETAIL NO. 06.01.01.
7. WATER METER & BACKFLOW PREVENTER VAULTS ~~SHALL BE~~ INSTALLED PER CITY OF PUYALLUP STANDARD CONSTRUCTION DETAIL NO. 03.03.03, 03.03.04, & 03.11.01.
8. FIRE HYDRANTS ~~SHALL BE~~ INSTALLED PER CITY OF PUYALLUP STANDARD CONSTRUCTION DETAIL NO. 03.05.01
9. GATE VALVES ~~SHALL BE~~ INSTALLED PER CITY OF PUYALLUP STANDARD CONSTRUCTION DETAIL NO. 03.01.01.
10. FOR CONSTRUCTION SEQUENCING FOR WATER SEE SURVEY OVERLAY & DEMOLITION PLAN SHEET C-3 FOR MORE INFO.
11. ALL WATER MAIN CROSSING OTHER UTILITIES ~~SHALL BE~~ INSTALLED PER CITY OF PUYALLUP STANDARD CONSTRUCTION DETAIL NO. 03.01.03-1 & 03.01.03-2.
12. ALL MECHANICAL JOINT FITTINGS ~~SHALL~~ HAVE MEGA LUGS.
13. CONTRACTOR ~~SHALL~~ FIELD LOCK GASKET MINIMUM 2 JOINTS EACH WAY FROM ANY CHANGE IN DIRECTION OR DEAD END.
14. FIELD LOCK GASKETS TWO JOINTS BEFORE & AFTER ANY CHANGE IN DIRECTION
15. MEGALUGS ON ALL MECHANICAL JOINT FITTINGS.

<u>SANITARY SEWER NOTES:</u>

1. BUILDING SANITARY SEWER CONNECTION PER MECHANICAL.
2. EXISTING SEWER MAIN MANHOLES RIMS ~~ARE TO BE~~ RAISED OR LOWERED TO FINAL GRADE, AS NEEDED.
3. ALL SANITARY SEWER INFRASTRUCTURE ~~SHALL BE~~ CONSTRUCTED IN ACCORDANCE WITH THE CITY OF PUYALLUP STANDARD CONSTRUCTION DETAILS. SEE UTILITY DETAILS SHEETS FOR MORE INFO.
4. PIPE TRENCHING, BEDDING, & BACKFILL ~~SHALL BE~~ IN ACCORDANCE WITH CITY OF PUYALLUP STANDARD CONSTRUCTION DETAIL NO. 06.01.01.
5. SEWER MAIN TAPPING ~~SHALL BE~~ PER CITY OF PUYALLUP STANDARD CONSTRUCTION DETAIL NO. 01.02.01.

APPROVED

BY____________________
CITY OF PUYALLUP
ENGINEERING SERVICES

DATE____________________

<u>NOTE</u>: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.

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

FIRE HYDRANT/FDC
LOCATION/ACCESS APPROVED

BY____________________
CITY OF PUYALLUP
FIRE CODE OFFICIAL

DATE____________________

<u>NOTE</u>: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.

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FIELD CONDITIONS MAY DICTATE CHANGES TO THE PLANS AS DETERMINED BY THE FIRE CODE OFFICIAL.

APPROVED

BY____________________
WATER PURVEYOR

DATE____________________

<u>NOTE</u>: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.

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No.	Date	By	Ckd.	Appr.	Revision
1	2/10/25	DC	DD	DD	REVISED PER SITE PLAN CHANGES

Title: SANITARY & WATER UTILITY PLAN - ASBUILT
HOMEWOOD SUITES

For: HERITAGE INN & SUITES OF PUYALLUP, LLC
4500 36TH AVE. S, SUITE 200
FARGO, NE 58104

DON E. DAWES
STATE OF WASHINGTON
42009
REGISTERED PROFESSIONAL ENGINEER
[illegible]
8/29/25

Scale: Horizontal 1"=30' Vertical N/A

Designed DC
Drawn DC
Checked DD
Approved DD
Date 8/29/25

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number 22507
Sheet C-4 of 8

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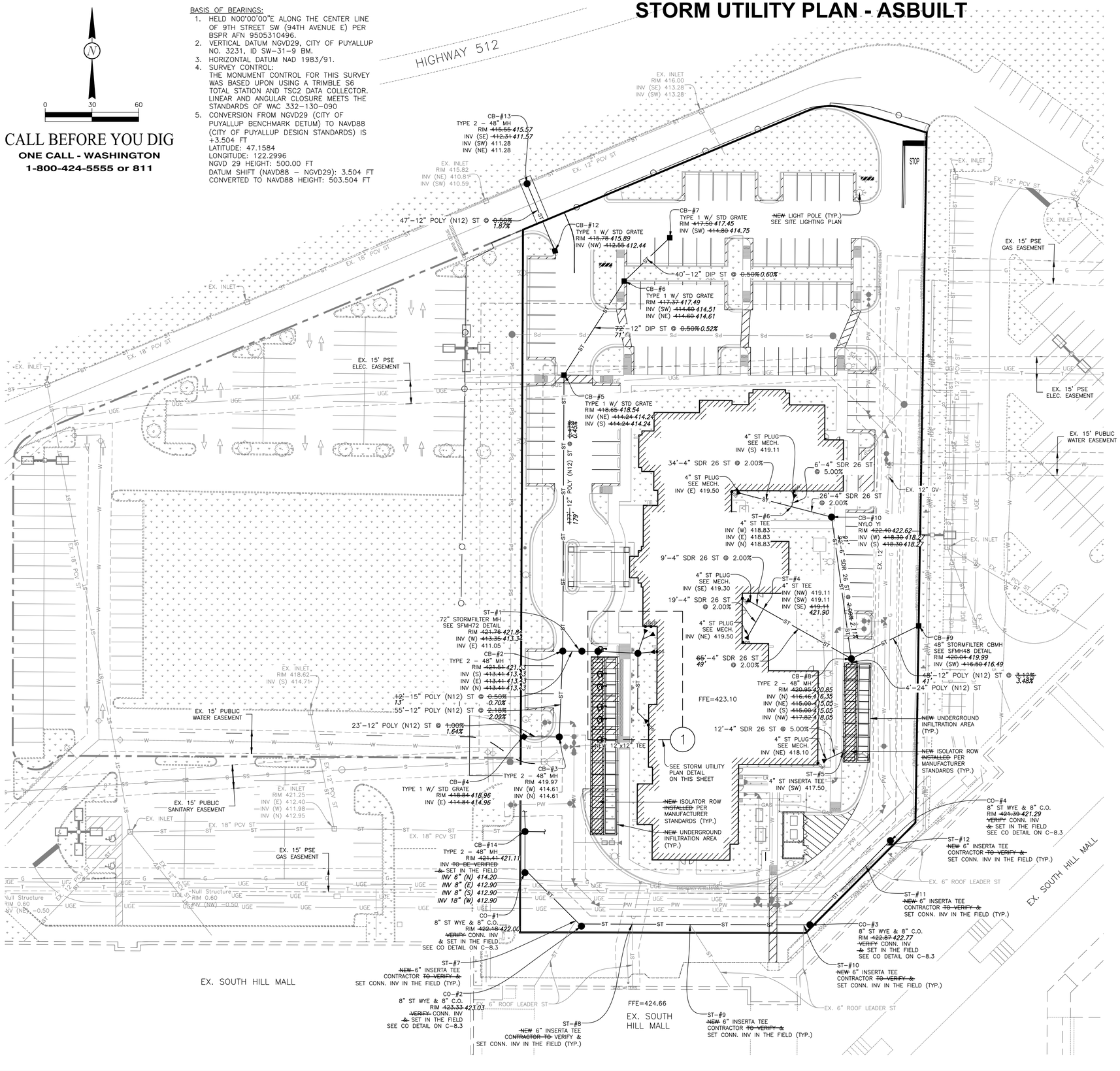
STORM UTILITY PLAN - ASBUILT



BASIS OF BEARINGS:

1. HELD N00°00'00"E ALONG THE CENTER LINE OF 9TH STREET SW (94TH AVENUE E) PER BSPR AFN 9505310496.
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   NGVD 29 HEIGHT: 500.00 FT
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   CONVERTED TO NAVD88 HEIGHT: 503.504 FT

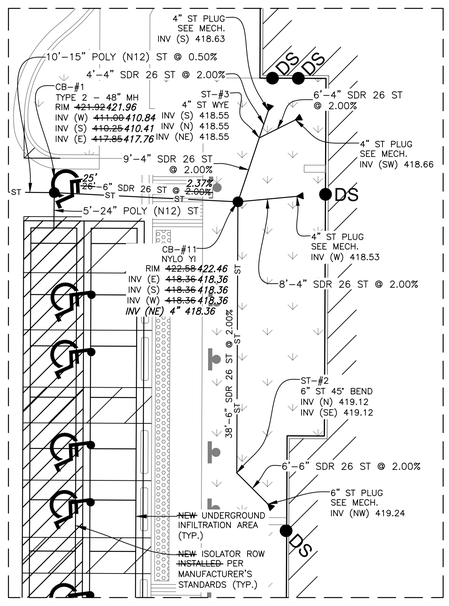
0 30 60

CALL BEFORE YOU DIG
ONE CALL - WASHINGTON
1-800-424-5555 or 811

ESTIMATED STORM QUANTITIES		
ITEM	QUANTITY	UNIT
4" HDPE STORM PIPE	198	LF
6" HDPE STORM PIPE	162	LF
8" HDPE STORM PIPE	296	LF
12" HDPE STORM PIPE	350	LF
12" DUCTILE IRON PIPE	112	LF
15" HDPE STORM PIPE	22	LF
24" HDPE STORM PIPE	9	LF
SINGLE BOX INLET (TYPE-1)	6	EA
STANDARD MANHOLE/INLET (TYPE-2)	7	EA
NYLOPLAST YARD INLET	2	EA
4" STORM WYE	1	EA
4" STORM TEE	2	EA
4" ADS INSERTA TEE	1	EA
6" 45° STORM BEND	1	EA
6" ADS INSERTA TEE	6	EA
8" STORM CLEANOUT	4	EA
8" STORM WYE	4	EA
DOWNSPOUT	9	EA
STORMFILTER DEVICE	2	EA
UNDERGROUND STORAGE/INFILTRATION FACILITY	2	EA

STORM SEWER & DRAINAGE NOTES:

1. BUILDING STORM ROOF LEADER/DOWNSPOUT CONNECTIONS PER MECHANICAL.
2. ALL STORM SEWER INFRASTRUCTURE ~~SHALL BE~~ CONSTRUCTED IN ACCORDANCE WITH THE CITY OF PUYALLUP STANDARD CONSTRUCTION DETAILS. SEE UTILITY DETAILS SHEETS FOR MORE INFO.
3. DOWNSPOUTS ~~SHALL BE~~ 8" NYLOPLAST DRAIN BASIN AND INLINE DRAIN OR APPROVED EQUAL.
4. CONNECT DOWNSPOUT DRAIN BASINS TO BELOW GRADE STORM DRAINS PER ARCHITECTURAL PLUMBING PLANS.
5. PROTECT ALL STORM INLETS, DOWNSPOUTS, AND OPEN PIPE FROM SEDIMENT AND DEBRIS DURING CONSTRUCTION.
6. CONTRACTOR ~~TO~~ SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO CONSTRUCTION.



1 STORM UTILITY PLAN DETAIL
SCALE: 1"=10'

1 CITY COMMENTS – 07-13-21
- UPDATED STORM UTILITY PLANS TO COORDINATE WITH THE STORMWATER ENGINEER'S DESIGN/CALCULATIONS
- ADDED CoP APPROVAL STAMP

2 CITY & WATER COMMENTS – 11-05-21
- UPDATED STORM UTILITY PLANS TO COORDINATE WITH THE STORMWATER ENGINEER'S DESIGN/CALCULATIONS
- UPDATED THE ESTIMATED STORM QUANTITIES PER THE STORM UPDATES

APPROVED

BY_____
CITY OF PUYALLUP
ENGINEERING SERVICES

DATE_____

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.

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

No.	Date	By	Chkd.	Appr.	Revision
2	2/10/25	DC	DD	DD	REVISED PER SITE PLAN CHANGES

Title: STORM UTILITY PLAN - ASBUILT

HOMEWOOD SUITES

HERITAGE INN & SUITES OF PUYALLUP, LLC
4500 36TH AVE. S, SUITE 200
FARGO, NE 58104

For:

DON E. DAWES
STATE OF WASHINGTON
42009
REGISTERED PROFESSIONAL ENGINEER
8/29/25

Scale: Horizontal 1"=30' Vertical N/A

Designed DC Drawn DC Checked DD Approved DD Date 8/29/25

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AOEHLER

Job Number 22507

Sheet C-4.1 8

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UTILITY PLAN SCHEDULES - ASBUILT

ST STRUCTURE SCHEDULE	
#/TYPE	DETAILS
CB–#1 TYPE 2 – 48" MH	RIM 421.92 15" POLY (N12) W 411.00 24" POLY (N12) S 410.25 6" SDR 26 E 417.85
CB–#2 TYPE 2 – 48" MH	~~RIM 421.51~~ *421.53* 12" POLY (N12) S ~~413.41~~ *413.43* 15" POLY (N12) E ~~413.41~~ *413.43* 12" POLY (N12) N ~~413.41~~ *413.43*
CB–#3 TYPE 2 – 48" MH	RIM 419.97 *419.97* 12" POLY (N12) W ~~414.61~~ *414.61* 12" POLY (N12) N ~~414.61~~ *414.61*
CB–#4 TYPE 1 W/ STD GRATE	RIM ~~418.84~~ *418.96* 12" POLY (N12) E ~~414.84~~ *414.96*
CB–#5 TYPE 1 W/ STD GRATE	RIM ~~418.65~~ *418.54* 12" DIP NE ~~414.24~~ *414.24* 12" POLY (N12) S ~~414.24~~ *414.24*
CB–#6 TYPE 1 W/ STD GRATE	RIM ~~417.37~~ *417.49* 12" DIP SW ~~414.60~~ *414.51* 12" DIP NE ~~414.60~~ *414.61*
CB–#7 TYPE 1 W/ STD GRATE	RIM ~~417.50~~ *417.45* 12" DIP SW ~~414.80~~ *414.75*
CB–#8 TYPE 2 – 48" MH	RIM ~~420.95~~ *420.85* 6" SDR 26 N ~~415.46~~ *416.35* 12" POLY (N12) NE ~~415.00~~ *415.05* 24" POLY (N12) S ~~415.00~~ *415.05* 4" SDR 26 NW ~~417.82~~ *418.05*
CB–#9 48" STORMFILTER CBMH SEE SFMH48 DETAIL	RIM ~~420.04~~ *419.99* 12" POLY (N12) SW ~~416.50~~ *416.49*
CB–#10 NYLO YI	RIM ~~422.40~~ *422.62* 4" SDR 26 W ~~418.30~~ *418.27* 6" SDR 26 S ~~418.30~~ *418.27*
CB–#11 NYLO YI	RIM 422.58 4" SDR 26 E 418.36 6" SDR 26 S 418.36 6" SDR 26 W 418.36
CB–#12 TYPE 1 W/ STD GRATE	RIM ~~415.78~~ *415.89* 12" POLY (N12) NW ~~412.55~~ *412.44*
CB–#13 TYPE 2 – 48" MH	RIM ~~415.55~~ *415.57* 12" POLY (N12) SE ~~412.31~~ *411.57* 12" POLY (N12) SW 411.28 12" POLY (N12) NE 411.28
CB–#14 TYPE 2 – 48" MH	RIM ~~421.41~~ *421.11* 18" POLY (N12) W ~~412.66~~ *412.90* *6" PVC N 414.20* *8" PVC E 412.90* *8" PVC S 412.90*
CO–#1 8" ST WYE & 8" C.O.	RIM ~~422.18~~ *422.00* 8" SDR 26 (SEE PLANS)
CO–#2 8" ST WYE & 8" C.O.	RIM ~~423.33~~ *423.03* 8" SDR 26 (SEE PLANS)
CO–#3 8" ST WYE & 8" C.O.	RIM ~~422.87~~ *422.77* 8" SDR 26 (SEE PLANS)
CO–#4 8" ST WYE & 8" C.O.	RIM ~~421.39~~ *421.29* 8" SDR 26 (SEE PLANS)
ST–#1 72" STORMFILTER MH SEE SFMH72 DETAIL	RIM ~~421.76~~ *421.84* 15" POLY (N12) W ~~413.35~~ *413.34* 15" POLY (N12) E 411.05
ST–#2 6" ST 45° BEND	6" SDR 26 N 419.12 6" SDR 26 SE 419.12

#/TYPE	DETAILS
ST–#3 4" ST WYE	4" SDR 26 S 418.55 4" SDR 26 N 418.55 4" SDR 26 NE 418.55
ST–#4 4" ST TEE	4" SDR 26 NW 419.11 4" SDR 26 SW 419.11 4" SDR 26 SE ~~419.11~~ *421.90*
ST–#5 4" ST INSERTA TEE	4" SDR 26 SW 417.50
ST–#6 4" ST TEE	4" SDR 26 W 418.83 4" SDR 26 E 418.83 4" SDR 26 N 418.83
ST–#7 ~~NEW~~ 6" INSERTA TEE CONTRACTOR ~~TO VERIFY &~~ SET CONN. INV IN THE FIELD (TYP.)	
ST–#8 ~~NEW~~ 6" INSERTA TEE CONTRACTOR ~~TO VERIFY &~~ SET CONN. INV IN THE FIELD (TYP.)	
ST–#9 ~~NEW~~ 6" INSERTA TEE CONTRACTOR ~~TO VERIFY &~~ SET CONN. INV IN THE FIELD (TYP.)	
ST–#10 ~~NEW~~ 6" INSERTA TEE CONTRACTOR ~~TO VERIFY &~~ SET CONN. INV IN THE FIELD (TYP.)	
ST–#11 ~~NEW~~ 6" INSERTA TEE CONTRACTOR ~~TO VERIFY &~~ SET CONN. INV IN THE FIELD (TYP.)	
ST–#12 ~~NEW~~ 6" INSERTA TEE CONTRACTOR ~~TO VERIFY &~~ SET CONN. INV IN THE FIELD (TYP.)	

SS STRUCTURE SCHEDULE	
#/DESC.	DETAILS
SS–#1 SAN. 48" MH	RIM ~~419.70~~ *419.91* 8" SDR 35 N ~~408.16~~ *408.10* 8" SDR 35 W ~~408.06~~ *408.00* *8" PVC E 408.10*
SS–#2 SAN. 48" MH	RIM ~~418.12~~ *418.29* 8" SDR 35 E ~~409.19~~ *409.36* 8" SDR 35 S ~~409.09~~ *409.26*
SS–#3 SAN. 48" MH	RIM ~~421.01~~ *420.95* 8" SDR 35 SE ~~410.12~~ *410.44* 8" SDR 35 W ~~410.02~~ *410.34*
SS–#4 SAN. 54" DROP MH SEE DETAIL 04.01.02	RIM ~~421.86~~ *421.62* 8" SDR 35 NW ~~410.37~~ *NW 410.77* 8" SDR 35 E ~~410.47~~ *E 414.42 (IE DROP)* 8" SDR 35 SW ~~412.37~~ *E 410.97 (BTM DROP)* *SW 412.64 (IE DROP)* *SW 410.97 (BTM DROP)*

1 CITY COMMENTS – 07–13–21
- UPDATED STORM UTILITY PLANS TO COORDINATE WITH THE STORMWATER ENGINEER'S DESIGN/CALCULATIONS
- ADDED CoP APPROVAL STAMP

2 CITY & WATER COMMENTS – 11–05–21
- UPDATED THE STORM STRUCTURE SCHEDULE PER THE STORM UPDATES

APPROVED

BY_____
CITY OF PUYALLUP
ENGINEERING SERVICES

DATE_____

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.

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

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

No.	Date	By	Chkd.	Appr.	Revision
2	2/10/25	DC	DD	DD	REVISED PER SITE PLAN CHANGES

Title: UTILITY PLAN SCHEDULES - ASBUILT

HOMEWOOD SUITES

For: HERITAGE INN & SUITES OF PUYALLUP, LLC
4500 36TH AVE. S, SUITE 200
FARGO, NE 58104

DON E. DAWES — STATE OF WASHINGTON — 42009 — REGISTERED PROFESSIONAL ENGINEER
8/29/25

Scale: Horizontal N/A Vertical N/A

Designed DC Drawn DC Checked DD Approved DD Date 8/29/25

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number 22507

Sheet C-4.2 8

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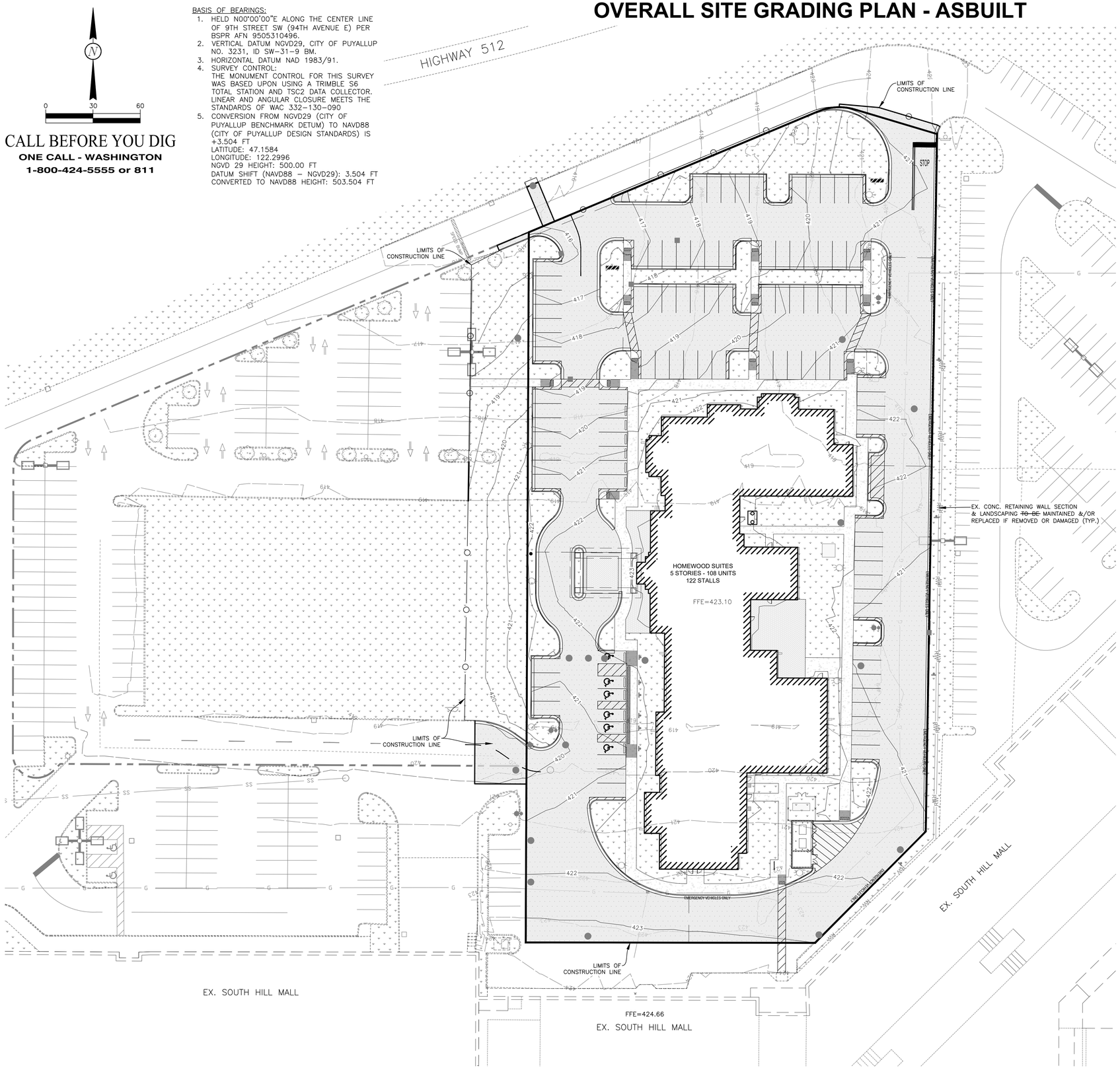
OVERALL SITE GRADING PLAN - ASBUILT



0 30 60

CALL BEFORE YOU DIG
ONE CALL - WASHINGTON
1-800-424-5555 or 811

BASIS OF BEARINGS:
1. HELD N00°00'00"E ALONG THE CENTER LINE OF 9TH STREET SW (94TH AVENUE E) PER BSPR AFN 9505310496.
2. VERTICAL DATUM NGVD29, CITY OF PUYALLUP NO. 3231, ID SW-31-9 BM.
3. HORIZONTAL DATUM NAD 1983/91.
4. SURVEY CONTROL:
   THE MONUMENT CONTROL FOR THIS SURVEY WAS BASED UPON USING A TRIMBLE S6 TOTAL STATION AND TSC2 DATA COLLECTOR. LINEAR AND ANGULAR CLOSURE MEETS THE STANDARDS OF WAC 332-130-090
5. CONVERSION FROM NGVD29 (CITY OF PUYALLUP BENCHMARK DETUM) TO NAVD88 (CITY OF PUYALLUP DESIGN STANDARDS) IS +3.504 FT
   LATITUDE: 47.1584
   LONGITUDE: 122.2996
   NGVD 29 HEIGHT: 500.00 FT
   DATUM SHIFT (NAVD88 – NGVD29): 3.504 FT
   CONVERTED TO NAVD88 HEIGHT: 503.504 FT

ONSITE ESTIMATED GRADING QUANTITIES		
ITEM	QUANTITY	UNIT
IMPORT	18,386	CY
AGGREGATE BASE COURSE	1,550	CY
SUBGRADE PREP	13,940	SY
THICKENED EDGE CONCRETE	772	LF
24" CURB	2,626	LF
NEW 4" CONCRETE SIDEWALK	1,013	SY
NEW 4" DECORATIVE STAMPED CONCRETE	259	SY
NEW 6" CONCRETE PAVEMENT	80	SY
ADA DOME PANELS	214	SF
NEW 3" ASPHALT PAVEMENT	6,737	SY
PAVEMENT MARKING – STRIPING	3,762	LF
PAVEMENT MARKING – ADA SYMBOL	6	EA

NOTES:
1. ELEVATIONS ARE FLOWLINE ELEVATIONS UNLESS OTHERWISE NOTED.
2. 2' OF STRIPPING ~~WAS~~ ASSUMED ~~TO ALLOW~~ FOR CLEARING OF EXISTING 5" ASPHALT & 1.5' GRAVEL FROM THE SITE.
3. FILL WITHIN THE BUILDING FOOTPRINT(S) ~~WAS~~ EXCLUDED. SEE STRUCTURAL AND ARCHITECTURAL FOR FILL REQUIREMENTS.
4. NO COMPACTION ~~WAS ASSUMED~~ IN THE QUANTITY FOR AGGREGATE BASE.
5. A FILL FACTOR OF 1.3 ~~WAS ASSUMED~~ FOR THE COMMON EXCAVATION & EXPORT QUANTITY.
6. ALL GRADES SHOWN ARE FINISH SURFACE GRADES. ANY LANDSCAPE ROCK IS ~~TO BE~~ PLACED ABOVE THE FINISHED GRADE SURFACE. RIP-RAP PROTECTION IS ~~TO BE~~ PLACED BELOW THE FINISHED GRADE SURFACE.
7. PAVEMENT MARKINGS QUANTITIES SHOWN ARE FOR NEW STALLS ONLY.
8. NEW ADA DOME PANEL ~~SHALL BE~~ 2' WIDE.
9. CONTRACTOR ~~SHALL~~ MATCH EXISTING CURB CROSS SECTION IN CLACKAMAS TOWN CENTER MALL'S PRIVATE ROADWAY.
10. CONTRACTOR ~~SHALL~~ COORDINATE PATTERN AND COLOR FOR STAMPED COLORED CONCRETE AT MAIN ENTRANCE WITH OWNER.

4" CONCRETE SIDEWALK
3" ASPHALT PAVEMENT
6" CONCRETE PAVEMENT
PAVER PATIO OR DECORATIVE CONCRETE

~~NEW~~ CURB (IN-FLOW)
~~NEW~~ CURB (OUT-FLOW)
GRADE BREAK: HIGH POINT

APPROVED

BY_____
CITY OF PUYALLUP
ENGINEERING SERVICES

DATE_____

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.

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1 CITY COMMENTS – 07-13-21
• ADDED CoP APPROVAL STAMP

No.	Date	By	Chkd.	Appr.	Revision
1	2/10/25	DC	DD	DD	REVISED PER SITE PLAN CHANGES

Title: OVERALL SITE GRADING PLAN - ASBUILT

HOMEWOOD SUITES

For: HERITAGE INN & SUITES OF PUYALLUP, LLC
4500 36TH AVE. S, SUITE 200
FARGO, NE 58104

DON E. DAMES
STATE OF WASHINGTON
42009
REGISTERED PROFESSIONAL ENGINEER
8/29/25

Scale: Horizontal 1"=30' Vertical N/A

Designed DC Drawn DC Checked DD Approved DD Date 8/29/25

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222 **barghausen.com**

Job Number 22507

Sheet C-5 of 8

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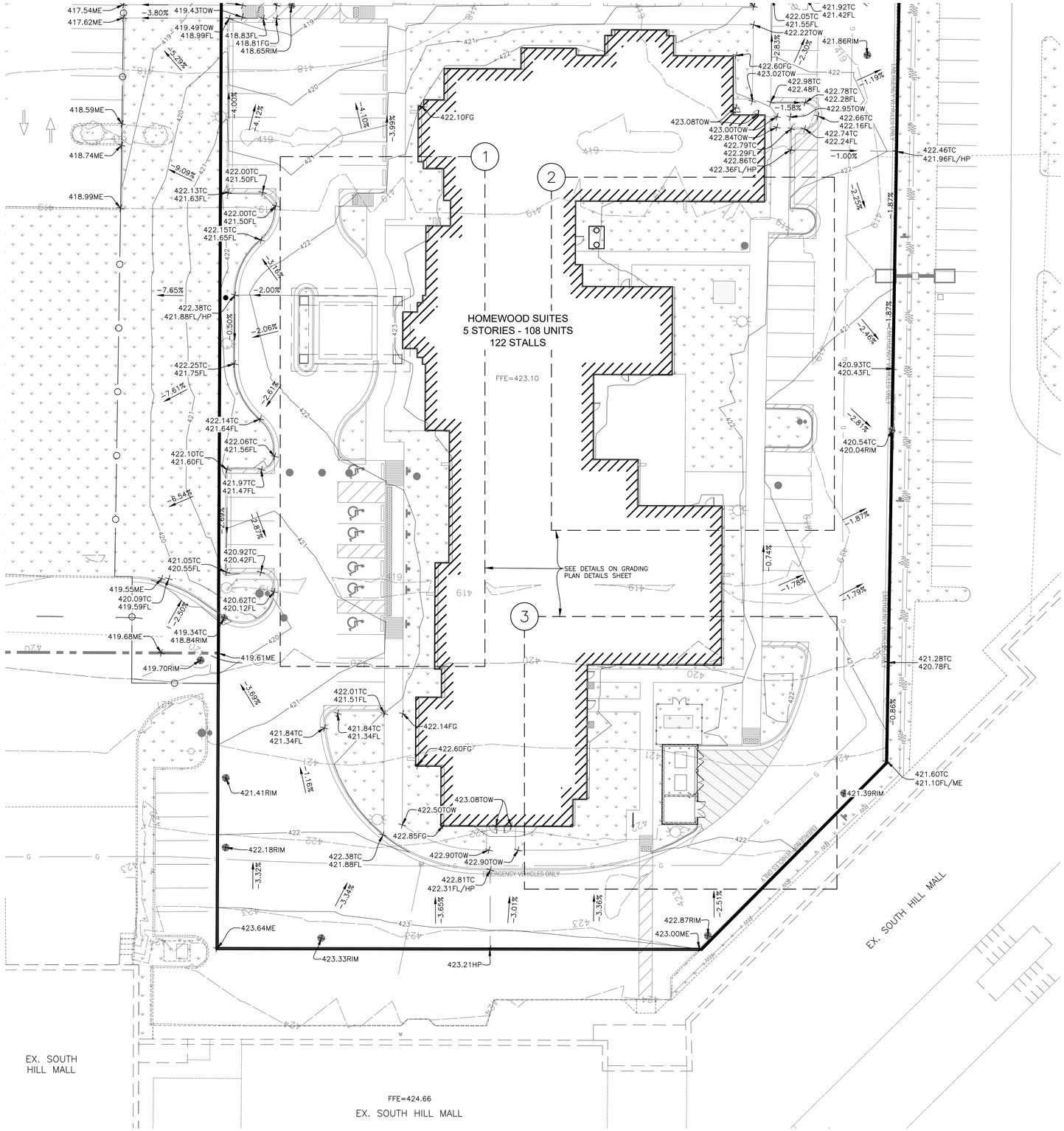
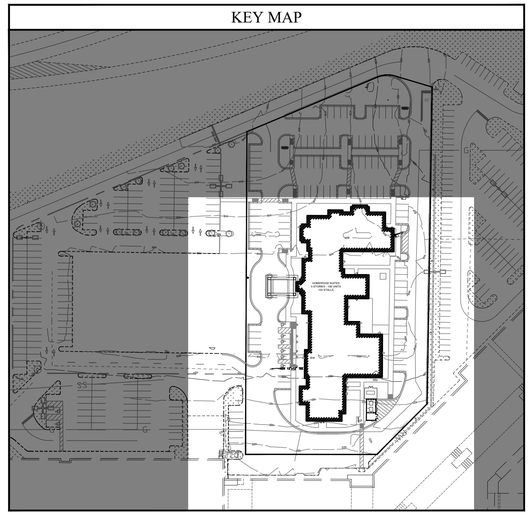
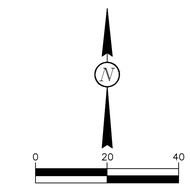
SOUTHERN GRADING PLAN - ASBUILT



KEY MAP



~~NEW~~ CURB	
GRADE BREAK: HIGH POINT	
FFE	FINISHED FLOOR ELEVATION
FG	FINISH GROUND
FL	FLOWLINE
HP	HIGH POINT
INV	STRUCTURE INVERT ELEVATION
LP	LOW POINT
ME	MATCH EXISTING GROUND
RIM	STRUCTURE RIM ELEVATION
TC	TOP OF CURB
TOC	TOP OF CONCRETE
TW	TOP OF WALK



CALL BEFORE YOU DIG

ONE CALL - WASHINGTON

1-800-424-5555 or 811

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APPROVED

BY_____
CITY OF PUYALLUP
ENGINEERING SERVICES

DATE_____

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⚠1 CITY COMMENTS – 07-13-21
- ADDED CoP APPROVAL STAMP

No.	Date	By	Ckd.	Appr.	Revision
1	2/10/25	DC	DD	DD	REVISED PER SITE PLAN CHANGES

Title: SOUTHERN GRADING PLAN - ASBUILT

HOMEWOOD SUITES

For: HERITAGE INN & SUITES OF PUYALLUP, LLC
4500 36TH AVE. S, SUITE 200
FARGO, NE 58104

DON E. DAVIES — STATE OF WASHINGTON — 42009 — REGISTERED PROFESSIONAL ENGINEER
8/29/25

Scale: Horizontal 1"=20' Vertical N/A

Designed DC Drawn DC Checked DD Approved DD Date 8/29/25

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number 22507

Sheet C-5.1 of 8

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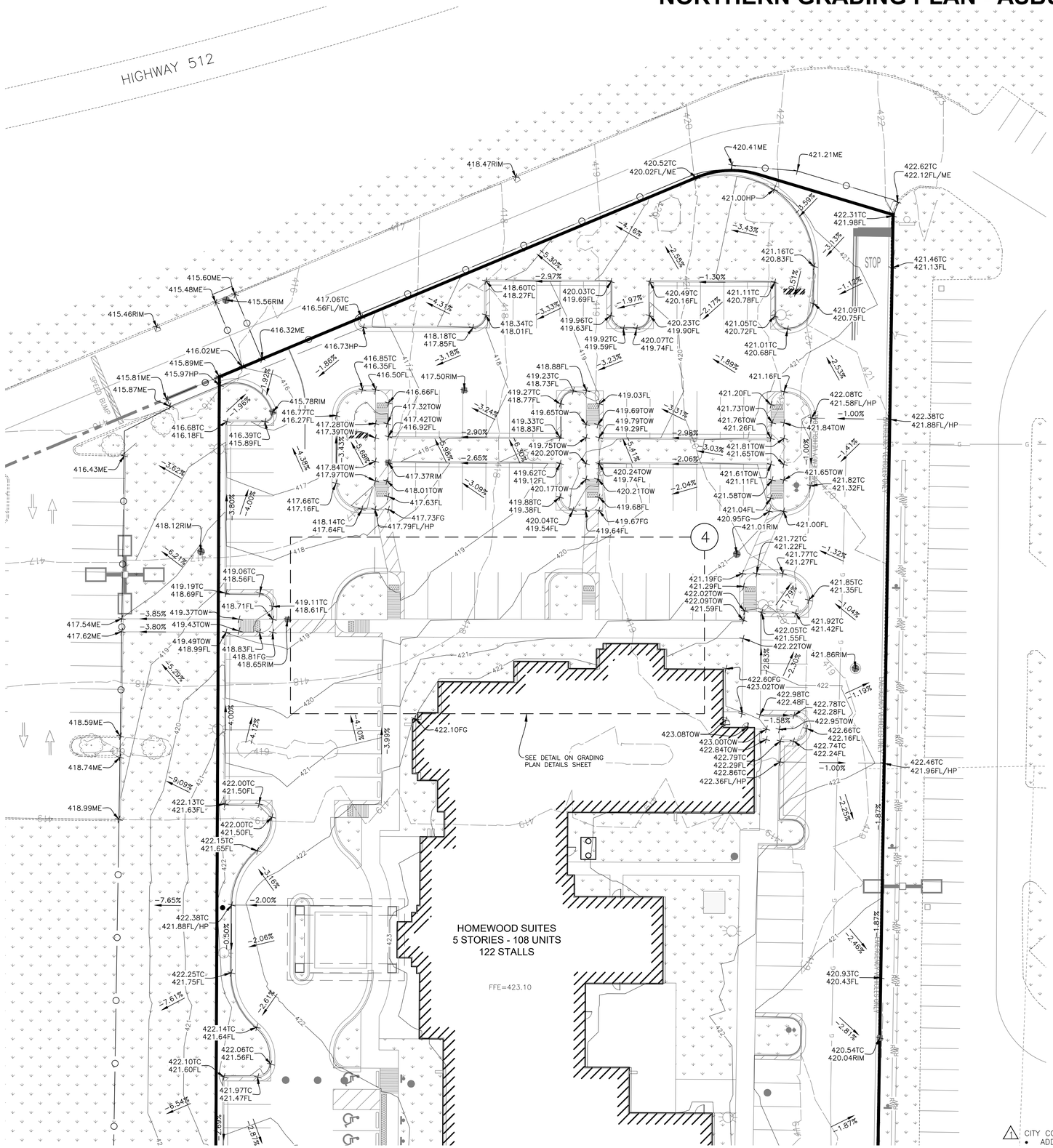
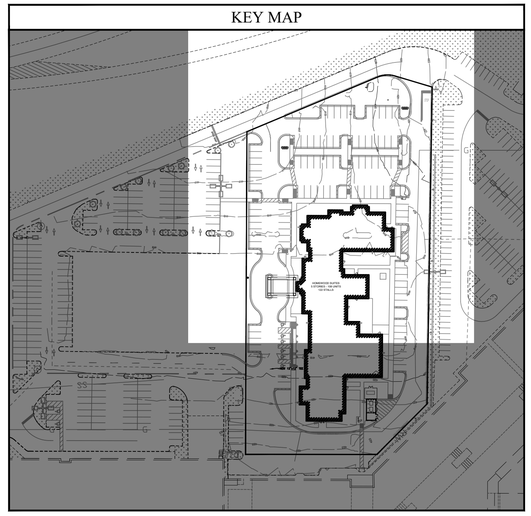
NORTHERN GRADING PLAN - ASBUILT



KEY MAP



~~NEW~~	CURB
	GRADE BREAK: HIGH POINT
FFE	FINISHED FLOOR ELEVATION
FG	FINISH GROUND
FL	FLOWLINE
HP	HIGH POINT
INV	STRUCTURE INVERT ELEVATION
LP	LOW POINT
ME	MATCH EXISTING GROUND
RIM	STRUCTURE RIM ELEVATION
TC	TOP OF CURB
TOC	TOP OF CONCRETE
TW	TOP OF WALK

N

0 20 40

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CITY OF PUYALLUP
ENGINEERING SERVICES

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- ADDED CoP APPROVAL STAMP

No.	Date	By	Chkd.	Appr.	Revision
1	2/10/25	DC	DD	DD	REVISED PER SITE PLAN CHANGES

Title: NORTHERN GRADING PLAN - ASBUILT

HOMEWOOD SUITES

For: HERITAGE INN & SUITES OF PUYALLUP, LLC
4500 36TH AVE. S, SUITE 200
FARGO, NE 58104

DON E. DAWES
STATE OF WASHINGTON
42009
REGISTERED
PROFESSIONAL ENGINEER
8/29/25

Scale: Horizontal 1"=20' Vertical N/A

Designed DC Drawn DC Checked DD Approved DD Date 8/29/25

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222 **barghausen.com**

Job Number 22507

Sheet C-5.2 of 8

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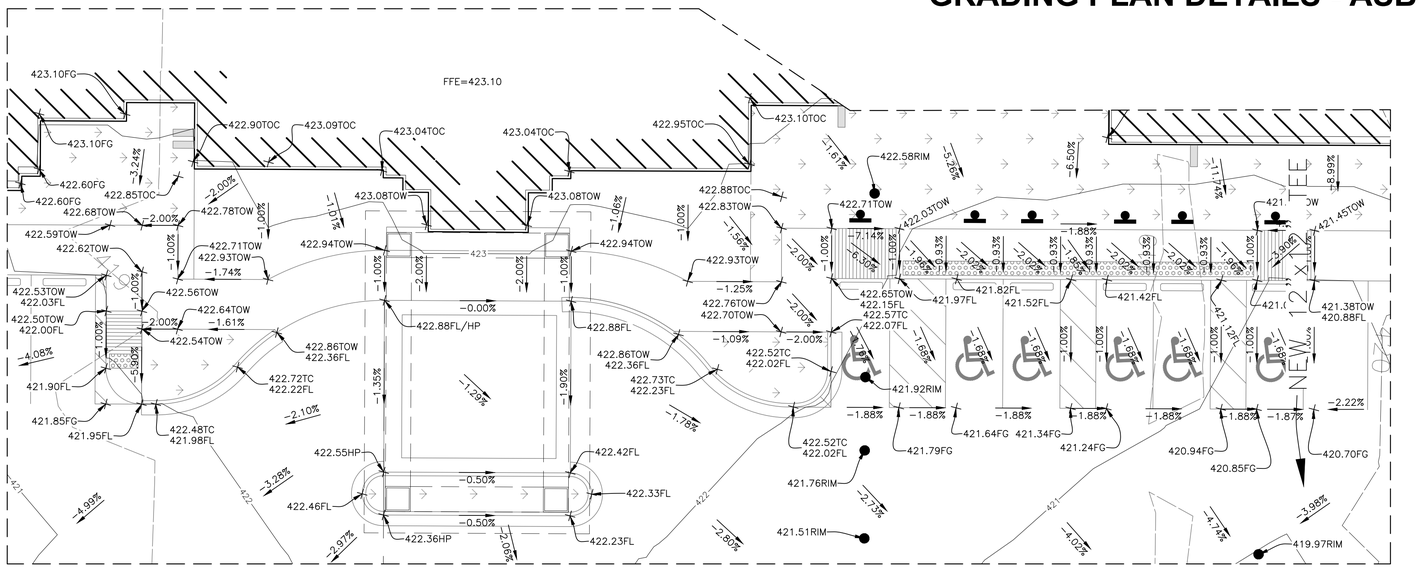
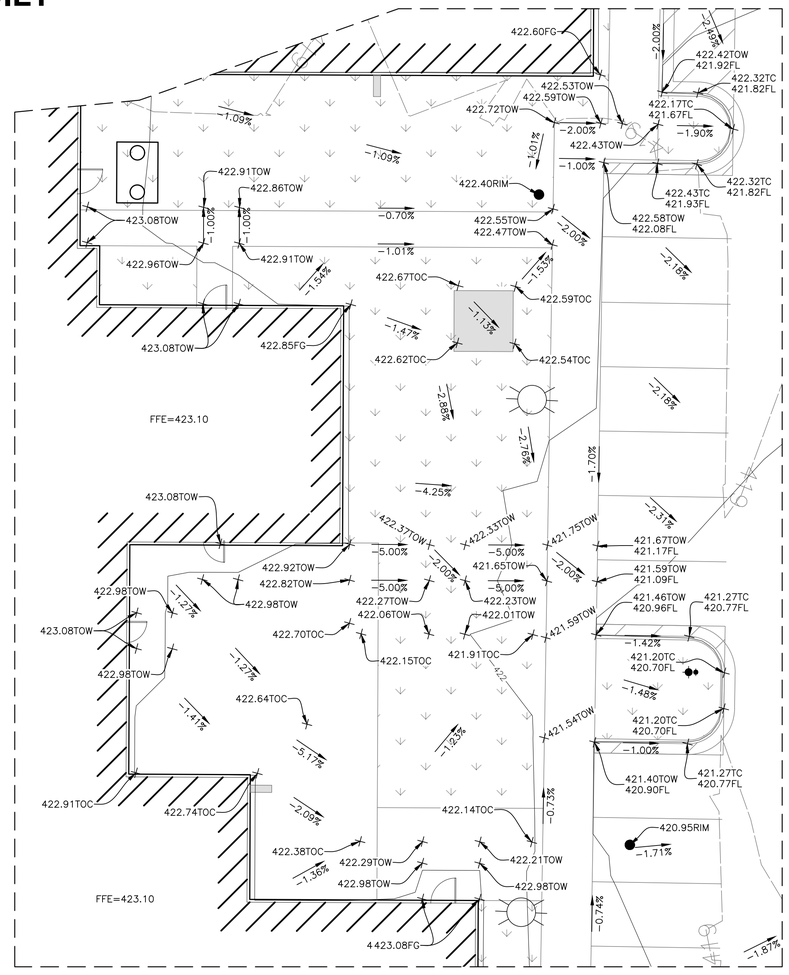
GRADING PLAN DETAILS - ASBUILT



1 GRADING PLAN DETAIL
SCALE: 1"=10'



2 GRADING PLAN DETAIL
SCALE: 1"=10'

	NEW CURB
	GRADE BREAK: HIGH POINT
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FG	FINISH GROUND
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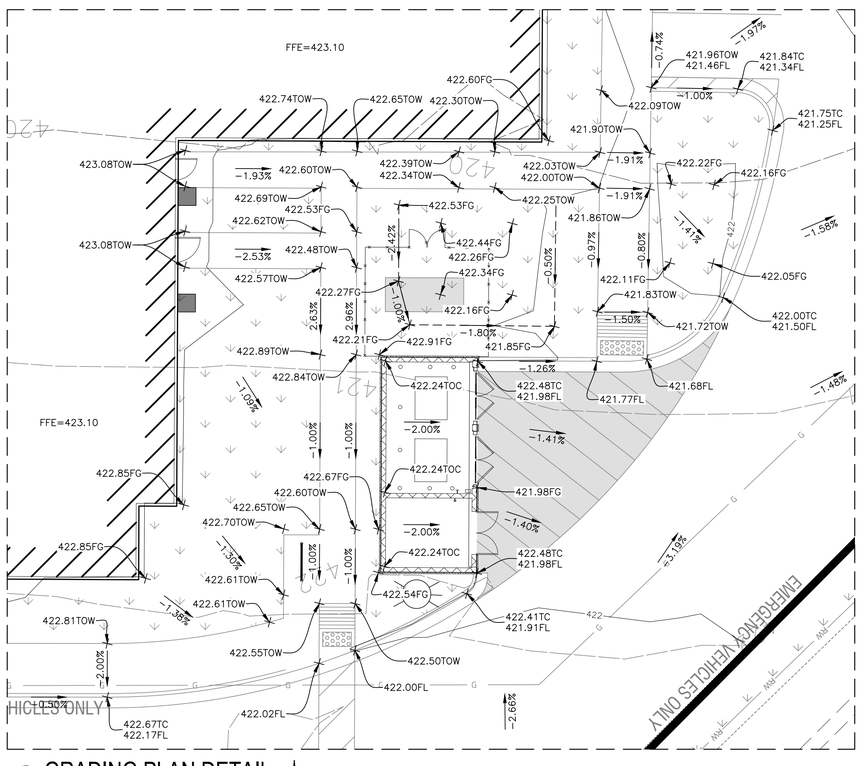
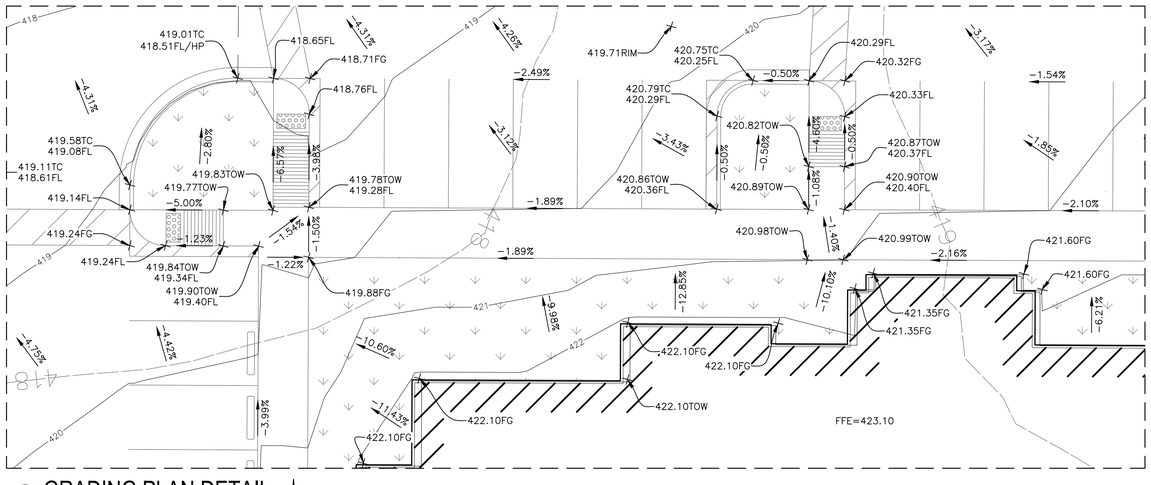


3 GRADING PLAN DETAIL
SCALE: 1"=10'



4 GRADING PLAN DETAIL
SCALE: 1"=10'

APPROVED

BY_____
CITY OF PUYALLUP
ENGINEERING SERVICES

DATE_____

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- ADDED CoP APPROVAL STAMP

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Title: GRADING PLAN DETAILS - ASBUILT

HOMEWOOD SUITES

For: HERITAGE INN & SUITES OF PUYALLUP, LLC
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FARGO, NE 58104

DON E. DAWES — STATE OF WASHINGTON — 42009 — REGISTERED PROFESSIONAL ENGINEER
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Job Number 22507

Sheet C-5.3 8

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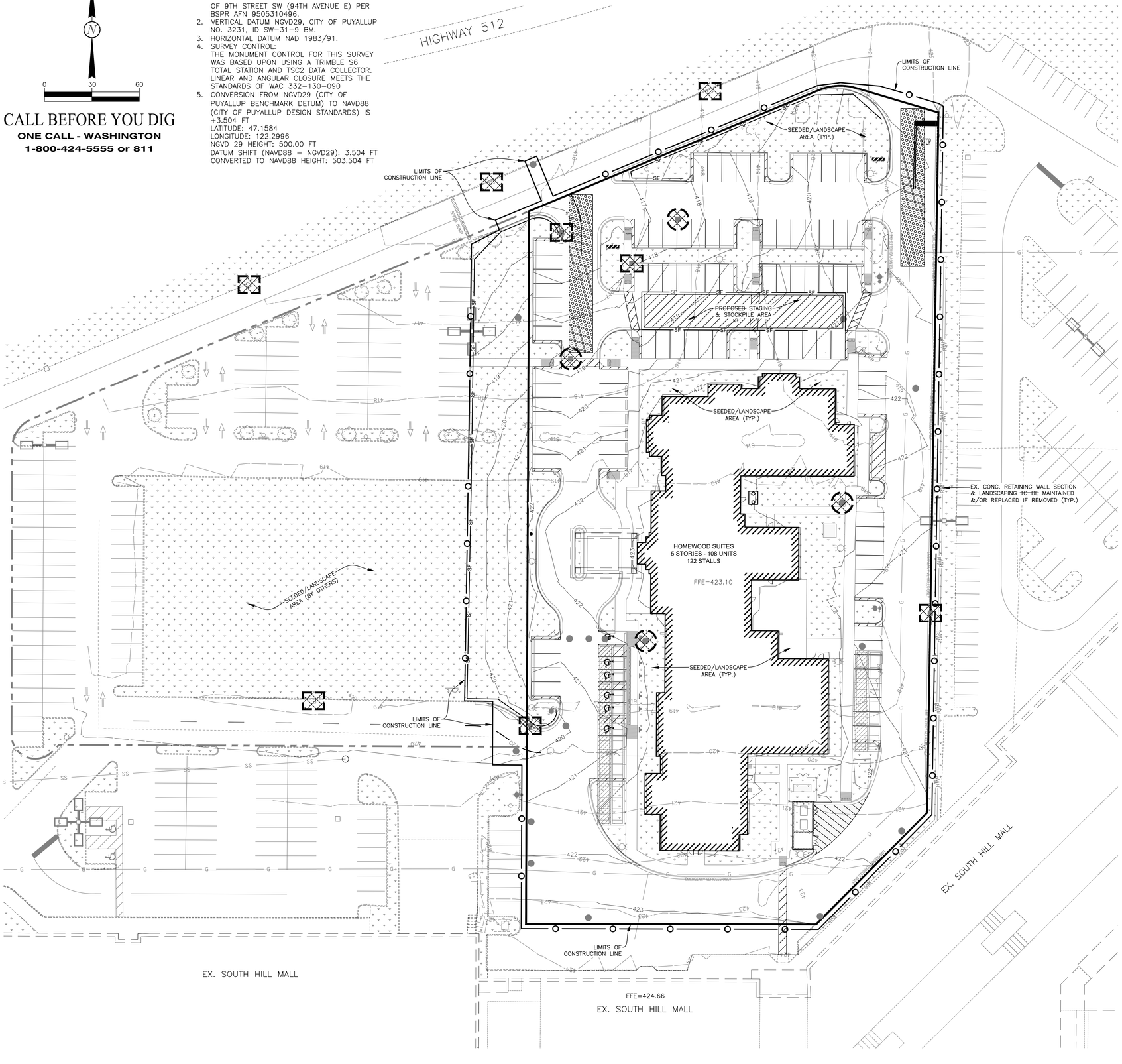
EROSION & SEDIMENT CONTROL PLAN - ASBUILT



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   DATUM SHIFT (NAVD88 – NGVD29): 3.504 FT
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EROSION CONTROL LEGEND			
—O—	LIMITS OF CONSTRUCTION	3.16	AC
—SF—	SILT FENCE	623	LF
	SEEDING & HYDROMULCH	3,757	SY
	CURB INLET PROTECTION	8	EA
	STANDARD INLET PROTECTION	4	EA
	STABILIZED CONSTRUCTION ENTRANCE	2	EA

NOTES:
1. CONTRACTOR ~~SHALL~~ FOLLOW CITY OF PUYALLUP AND DEPARTMENT OF ECOLOGY STORMWATER POLLUTION PREVENTION STANDARDS FOR ALL EROSION CONTROL DURING CONSTRUCTION.
2. SILT FENCE ~~SHALL BE~~ INSTALLED PER DEPARTMENT OF ECOLOGY DETAIL SHOWN ON THE EROSION & SEDIMENT CONTROL PLAN DETAILS SHEET C-6.1.
3. INLET PROTECTION ~~SHALL BE~~ INSTALLED PER DEPARTMENT OF ECOLOGY DETAILS SHOWN ON THE EROSION & SEDIMENT CONTROL PLAN DETAILS SHEET C-6.1.
4. CONTRACTOR ~~SHALL~~ PROVIDE APPROVED CONCRETE WASHOUT PER DEPARTMENT OF ECOLOGY DETAIL SHOWN ON THE EROSION & SEDIMENT CONTROL PLAN DETAILS SHEET C-6.1.
5. REFER TO LANDSCAPE PLAN FOR PERMANENT STABILIZATION AND SEEDING DETAILS.

CONSTRUCTION SEQUENCE:
ALL ESC PLANS ~~SHALL~~ INCLUDE A "CONSTRUCTION SEQUENCE" SCHEDULE WHICH OUTLINES THE PROPER SEQUENCE AND MAINTENANCE REQUIREMENTS FOR ESC IN CONJUNCTION WITH THE CONSTRUCTION OF THE PROJECT. THE FOLLOWING "CONSTRUCTION SEQUENCE" IS ~~TO BE~~ USED AS A GUIDE, ALTHOUGH EACH INDIVIDUAL PROJECT IS UNIQUE AND WILL REQUIRE ITS OWN "CONSTRUCTION SEQUENCE" SCHEDULE:
1. ~~HOLD A~~ PRECONSTRUCTION MEETING WITH THE CITY AND OBTAIN REQUIRED PERMITS.
2. ~~ESTABLISH~~ CLEARING AND GRADING LIMITS.
3. ~~CONSTRUCT~~ TEMPORARY CONSTRUCTION ENTRANCE.
4. ~~CONSTRUCT~~ PERIMETER DITCHES, SILT FENCES, AND OTHER EROSION CONTROL DEVICES AS SHOWN.
5. ~~CONSTRUCT~~ PROTECTION DEVICES FOR CRITICAL AREAS AND SIGNIFICANT TREES PROPOSED FOR RETENTION.
6. ~~SCHEDULE AN~~ EROSION CONTROL INSPECTION WITH THE CITY.
7. ~~CONSTRUCT~~ STORM DRAINAGE RETENTION/DETENTION (CONTROL AND STORAGE) FACILITIES. ~~PROVIDE~~ EMERGENCY OVERFLOW AS APPLICABLE.
8. ALL DITCHES AND SWALES AS SHOWN ~~SHALL BE~~ PROVIDED TO DIRECT ALL SURFACE WATER TO THE RETENTION/DETENTION AND SEDIMENTATION POND AS CLEARING AND GRADING PROGRESSES. NO UNCONTROLLED SURFACE WATER ~~SHALL BE~~ ALLOWED TO LEAVE THE SITE OR ~~BE~~ DISCHARGED TO A CRITICAL AREA AT ANY TIME DURING THE GRADING OPERATIONS.
9. CLEARLY STATE AT WHAT POINT GRADING ACTIVITIES CAN BEGIN, USUALLY ONLY AFTER ALL DRAINAGE AND EROSION CONTROL MEASURES ARE IN PLACE.
10. IDENTIFY EROSION CONTROL MEASURES WHICH REQUIRE REGULAR MAINTENANCE.

⚠1 CITY COMMENTS – 07-13-21
- ADDED CONSTRUCTION SEQUENCE WERE ADDED PER SECTION 501.6
- ADDED CoP APPROVAL STAMP

APPROVED

BY_____
CITY OF PUYALLUP
ENGINEERING SERVICES

DATE_____

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.

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

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

No.	Date	By	Chd.	Appr.	Revision
1	2/10/25	DC	DD	DD	REVISED PER SITE PLAN CHANGES

Title: EROSION & SEDIMENT CONTROL PLAN - ASBUILT

HOMEWOOD SUITES

For: HERITAGE INN & SUITES OF PUYALLUP, LLC
4500 36TH AVE. S, SUITE 200
FARGO, NE 58104

DON E. DAVIES — STATE OF WASHINGTON — 42009 — REGISTERED PROFESSIONAL ENGINEER
8/29/25

Scale: Horizontal 1"=30' Vertical N/A

Designed DC Drawn DC Checked DD Approved DD Date 8/29/25

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number 22507

Sheet C-6 of 8

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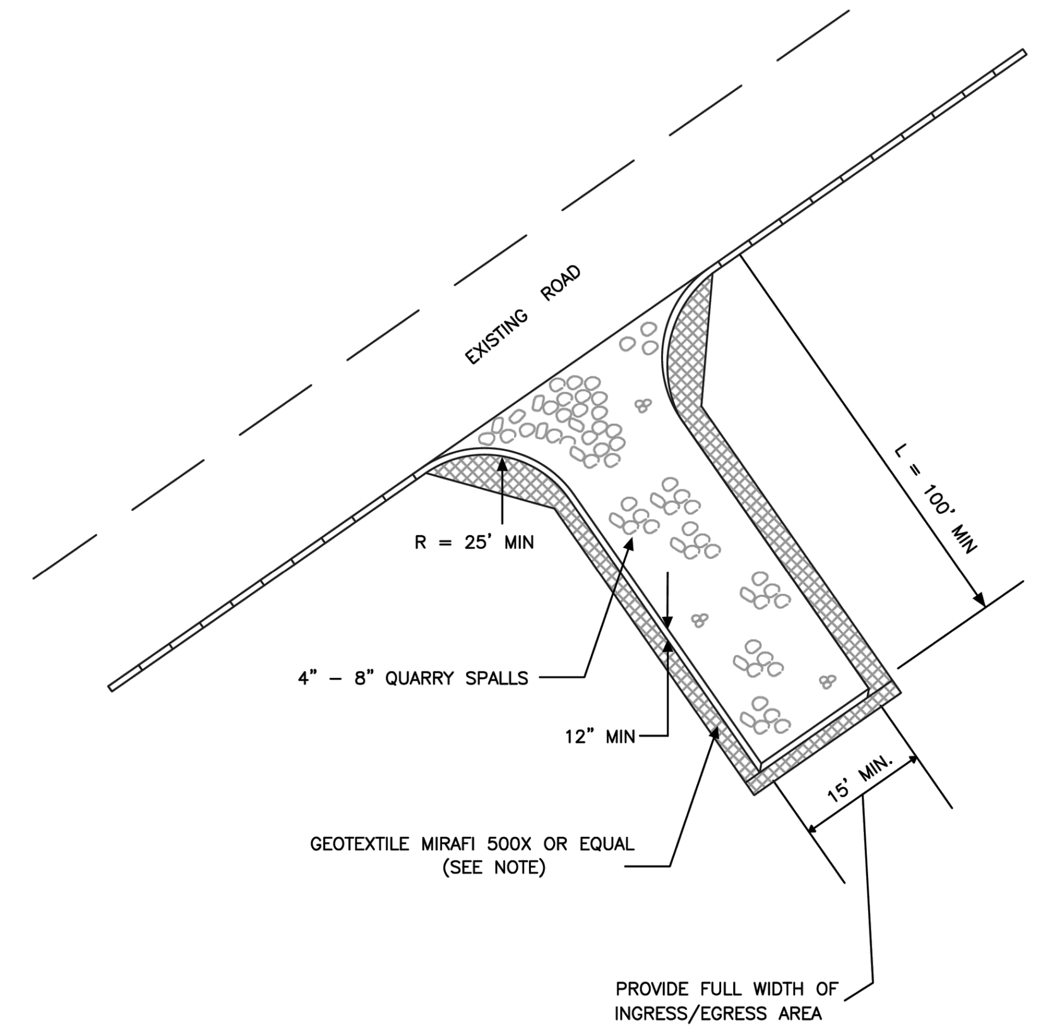
NOTE:

1. GEOTEXTILE MIRAFI 500 X OR APPROVED EQUAL SHALL BE PLACED UNDER THE ENTIRETY OF THE TEMPORARY ENTRANCE.
2. ADDITIONAL ROCK SHALL BE ADDED PERIODICALLY TO MAINTAIN PROPER FUNCTION OF THE PAD.
3. IF THE PAD DOES NOT ADEQUATELY REMOVE THE MUD FROM THE VEHICLE'S WHEELS, THE WHEELS SHALL BE HOSED OFF BEFORE THE VEHICLE ENTERS A PAVED STREET. THE WASHING SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK AND WASH WATER SHALL DRAIN TO A SEDIMENT RETENTION FACILITY OR THROUGH A SILT FENCE.



CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

TEMPORARY CONSTRUCTION ENTRANCE

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
JIM ERWIN-SVOBODA	LINDA LIAN	COLLEEN HARRIS	XXXX	05.01.01
FILE NAME F:\DWG\COMMON\STDS\CITY\2009\05_GRD\05.01\05.01.01		DATE APPROVED 07/01/2009	DATE REVISED XX/XX/XX	SCALE 1:40

1. ALL LIMITS OF CLEARING AND AREAS OF VEGETATION PRESERVATION AS PRESCRIBED ON THE PLANS SHALL BE CLEARLY FLAGGED IN THE FIELD AND OBSERVED DURING CONSTRUCTION.

2. ALL REQUIRED SEDIMENTATION AND EROSION CONTROL FACILITIES MUST BE CONSTRUCTED AND IN OPERATION PRIOR TO ANY LAND CLEARING AND/OR OTHER CONSTRUCTION TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE NATURAL DRAINAGE SYSTEM. THE CONTRACTOR SHALL SCHEDULE AN INSPECTION OF THE EROSION CONTROL FACILITIES PRIOR TO ANY LAND CLEARING AND/OR CONSTRUCTION. ALL EROSION AND SEDIMENT FACILITIES SHALL BE MAINTAINED IN A SATISFACTORY CONDITION AS DETERMINED BY THE CITY, UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED. THE IMPLEMENTATION, MAINTENANCE, REPLACEMENT, AND ADDITIONS TO THE EROSION AND SEDIMENTATION CONTROL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE PERMITEE.

3. THE EROSION AND SEDIMENTATION CONTROL SYSTEM FACILITIES DEPICTED ON THESE PLANS ARE INTENDED TO BE MINIMUM REQUIREMENTS TO MEET ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND UNEXPECTED OR SEASONAL CONDITIONS DICTATE, FACILITIES WILL BE NECESSARY TO ENSURE COMPLETE SILTATION CONTROL ON THE SITE. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE PERMITEE TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES, OVER AND ABOVE THE MINIMUM REQUIREMENTS, AS MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.

4. APPROVAL OF THESE PLANS IS FOR GRADING, TEMPORARY DRAINAGE, EROSION AND SEDIMENTATION CONTROL ONLY. IT DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT STORM DRAINAGE DESIGN, SIZE OR LOCATION OF PIPES, RESTRICTORS, CHANNELS, OR RETENTION FACILITIES.

5. ANY DISTURBED AREA WHICH HAS BEEN STRIPPED OF VEGETATION AND WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 30 DAYS OR MORE, MUST BE IMMEDIATELY STABILIZED WITH MULCHING, GRASS PLANTING, OR OTHER APPROVED EROSION CONTROL TREATMENT APPLICABLE TO THE TIME OF YEAR IN QUESTION. GRASS SEEDING ALONE WILL BE ACCEPTABLE ONLY DURING THE MONTHS OF APRIL THROUGH SEPTEMBER INCLUSVE. SEEDING MAY PROCEED OUTSIDE THE SPECIFIED TIME PERIOD WHENEVER IT IS IN THE INTEREST OF THE PERMITEE BUT MUST BE AUGMENTED WITH MULCHING, NETTING, OR OTHER TREATMENT APPROVED BY THE CITY.

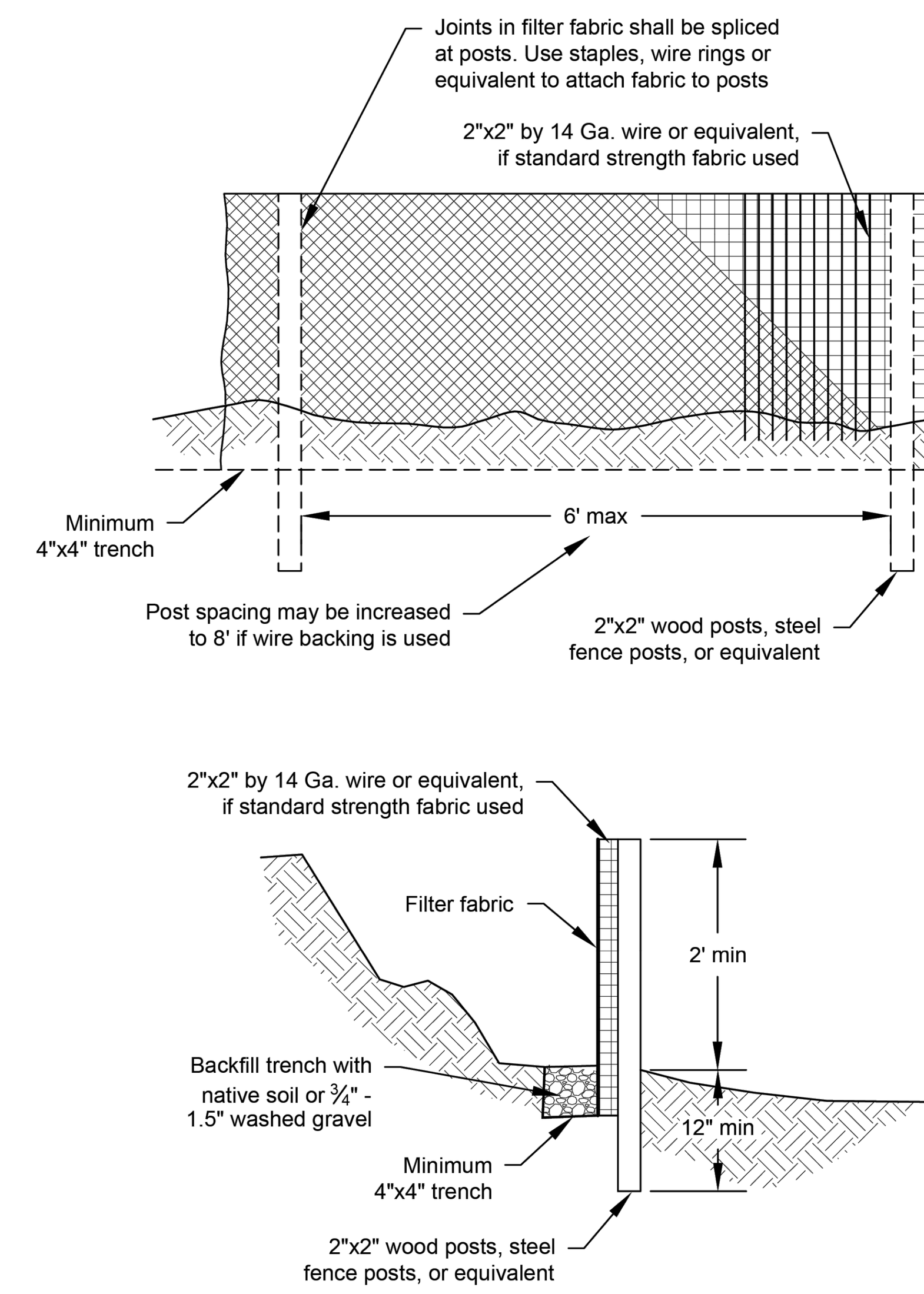
6. IN CASE EROSION OR SEDIMENTATION OCCURS TO ADJACENT PROPERTIES, ALL CONSTRUCTION WORK WITHIN THE DEVELOPMENT THAT WILL FURTHER AGGRAVATE THE SITUATION MUST CEASE, AND THE OWNER/CONTRACTOR WILL IMMEDIATELY COMMENCE RESTORATION METHODS. RESTORATION ACTIVITY WILL CONTINUE UNTIL SUCH TIME AS THE AFFECTED PROPERTY OWNER IS SATISFIED.

7. NO TEMPORARY OR PERMANENT STOCKPILING OF MATERIALS OR EQUIPMENT SHALL OCCUR WITHIN CRITICAL AREAS OR ASSOCIATED BUFFERS, OR THE CRITICAL ROOT ZONE FOR VEGETATION PROPOSED FOR RETENTION.

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

GRADING, EROSION, AND SEDIMENTATION CONTROL NOTES

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
JIM ERWIN-SVOBODA	LINDA LIAN	COLLEEN HARRIS	LINDA LIAN	05.02.01
FILE NAME F:\DWG\COMMON\STDS\CITY\2009\05_GRD\05.01\05.02.01		DATE APPROVED 07/01/2009	DATE REVISED 11/18/2014	SCALE 1:1



NOT TO SCALE

DEPARTMENT OF ECOLOGY
State of Washington

Figure II-4.2.12
Silt Fence

Revised October 2014

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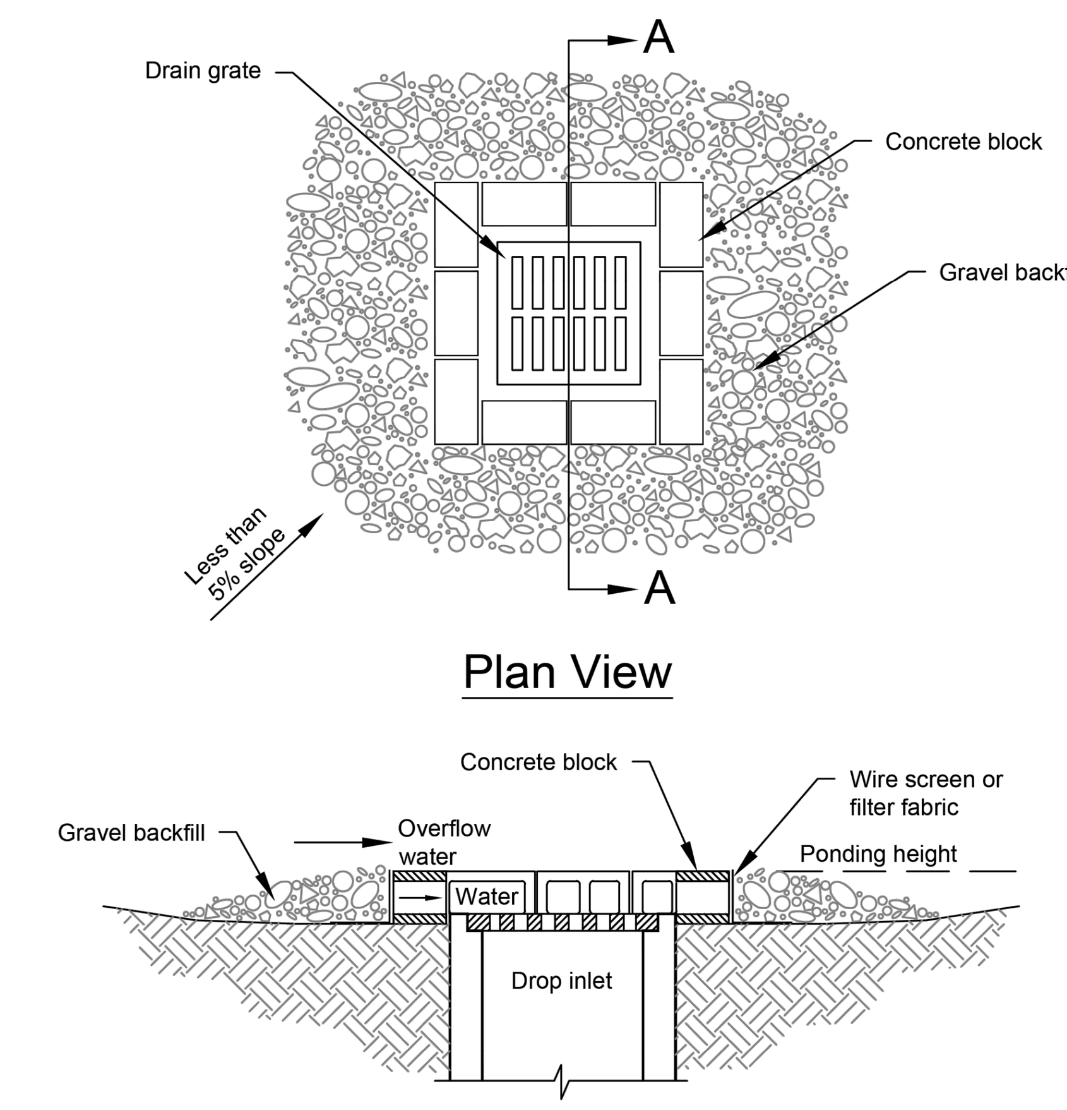

Notes:
1. Drop inlet sediment barriers are to be used for small, nearly level drainage areas. (less than 5%)
2. Excavate a basin of sufficient size adjacent to the drop inlet.
3. The top of the structure (ponding height) must be well below the ground elevation downslope to prevent runoff from bypassing the inlet. A temporary dike may be necessary on the downslope side of the structure.

NOT TO SCALE

DEPARTMENT OF ECOLOGY
State of Washington

Figure II-4.2.8
Block and Gravel Filter

Revised August 2015

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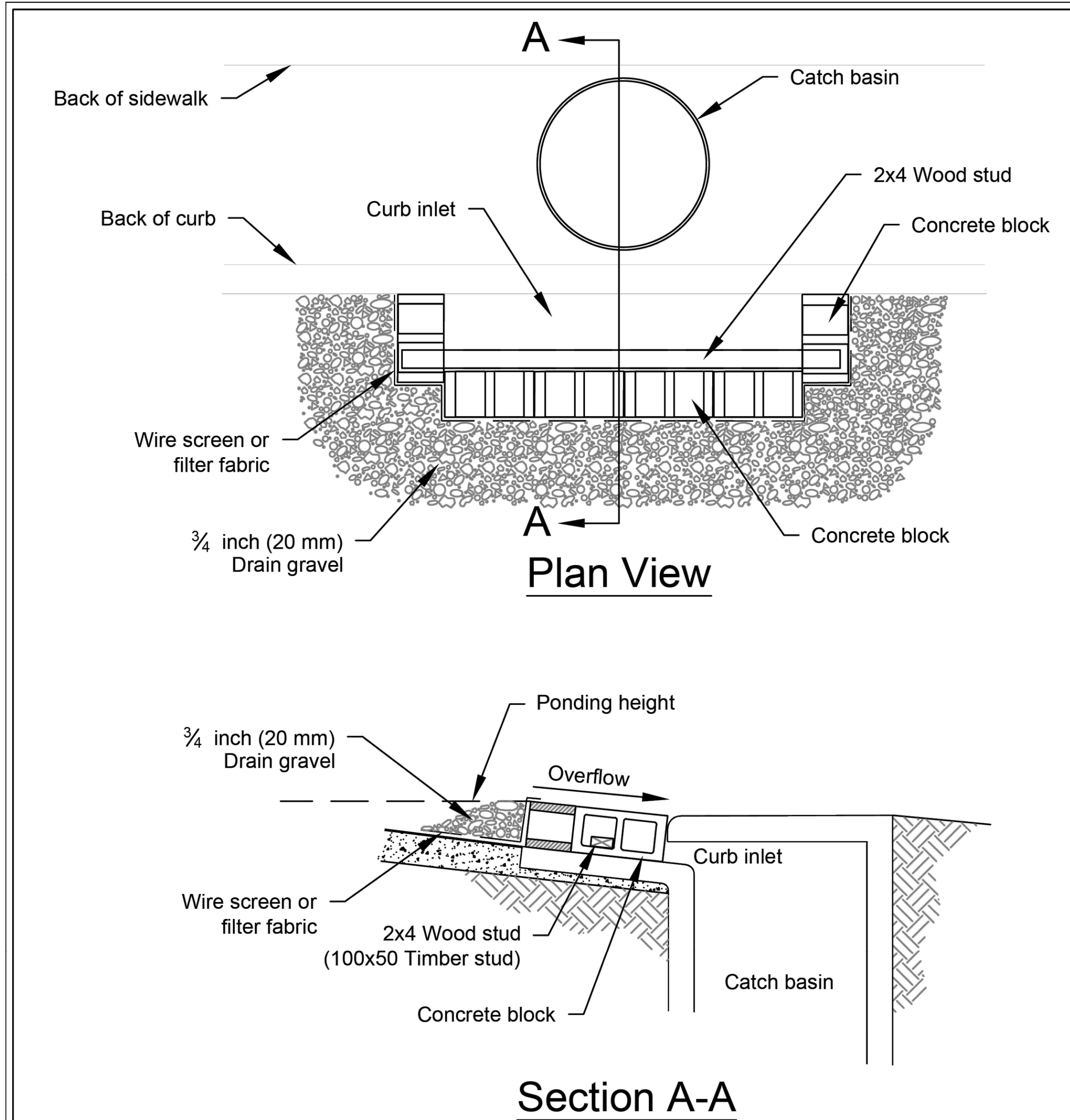

Notes:
1. Use block and gravel type sediment barrier when curb inlet is located in gently sloping street segment, where water can pond and allow sediment to separate from runoff.
2. Barrier shall allow for overflow from severe storm event.
3. Inspect barriers and remove sediment after each storm event. Sediment and gravel must be removed from the traveled way immediately.

NOT TO SCALE

DEPARTMENT OF ECOLOGY
State of Washington

Figure II-4.2.9
Block and Gravel Curb Inlet Protection

Revised August 2015

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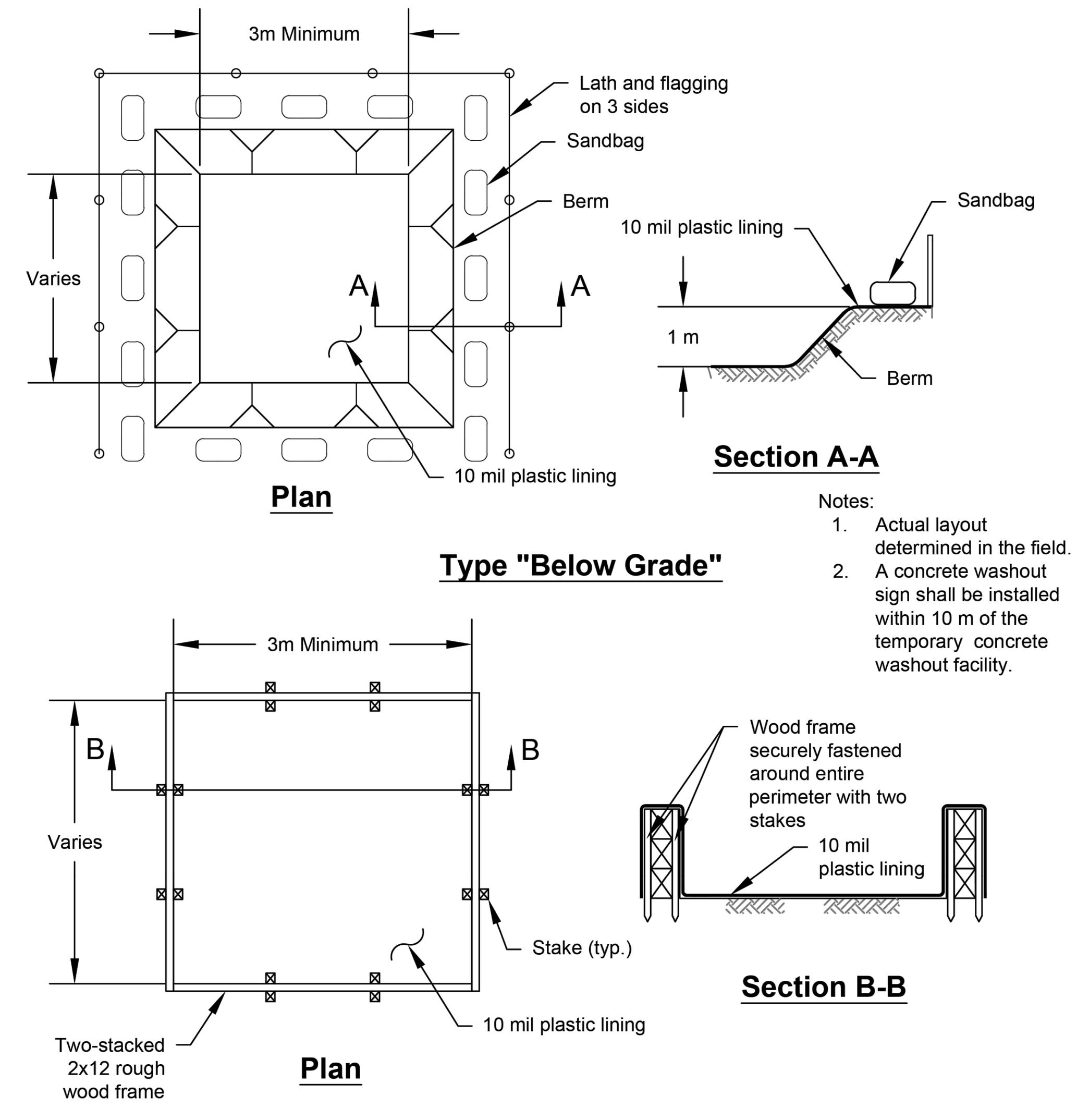

Notes:
1. Actual layout determined in the field.
2. A concrete washout sign shall be installed within 10 m of the temporary concrete washout facility.

NOT TO SCALE

DEPARTMENT OF ECOLOGY
State of Washington

Figure II-4.1.7a
Concrete Washout Area

Revised June 2015

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⚠1 CITY COMMENTS – 07-13-21
- ADDED DEPT. OF ECOLOGY BMP DETAILS
- ADDED CoP APPROVAL STAMP

APPROVED

BY______________________
CITY OF PUYALLUP
ENGINEERING SERVICES

DATE____________________

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.

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

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

No.	Date	By	Ckd.	Appr.	Revision
⚠1	2/10/25	DC	DD	DD	REVISED PER SITE PLAN CHANGES

Title: EROSION & SEDIMENT CONTROL PLAN DETAILS - ASBUILT
HOMEWOOD SUITES

For: HERITAGE INN & SUITES OF PUYALLUP, LLC
4500 36TH AVE. S, SUITE 200
FARGO, NE 58104

DON E. DAWES
STATE OF WASHINGTON
42009
REGISTERED PROFESSIONAL ENGINEER
[illegible]
8/29/25

Scale: Horizontal N/A Vertical N/A

Designed DC
Drawn DC
Checked DD
Approved DD
Date 8/29/25

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number 22507

Sheet C-6.1 of 8

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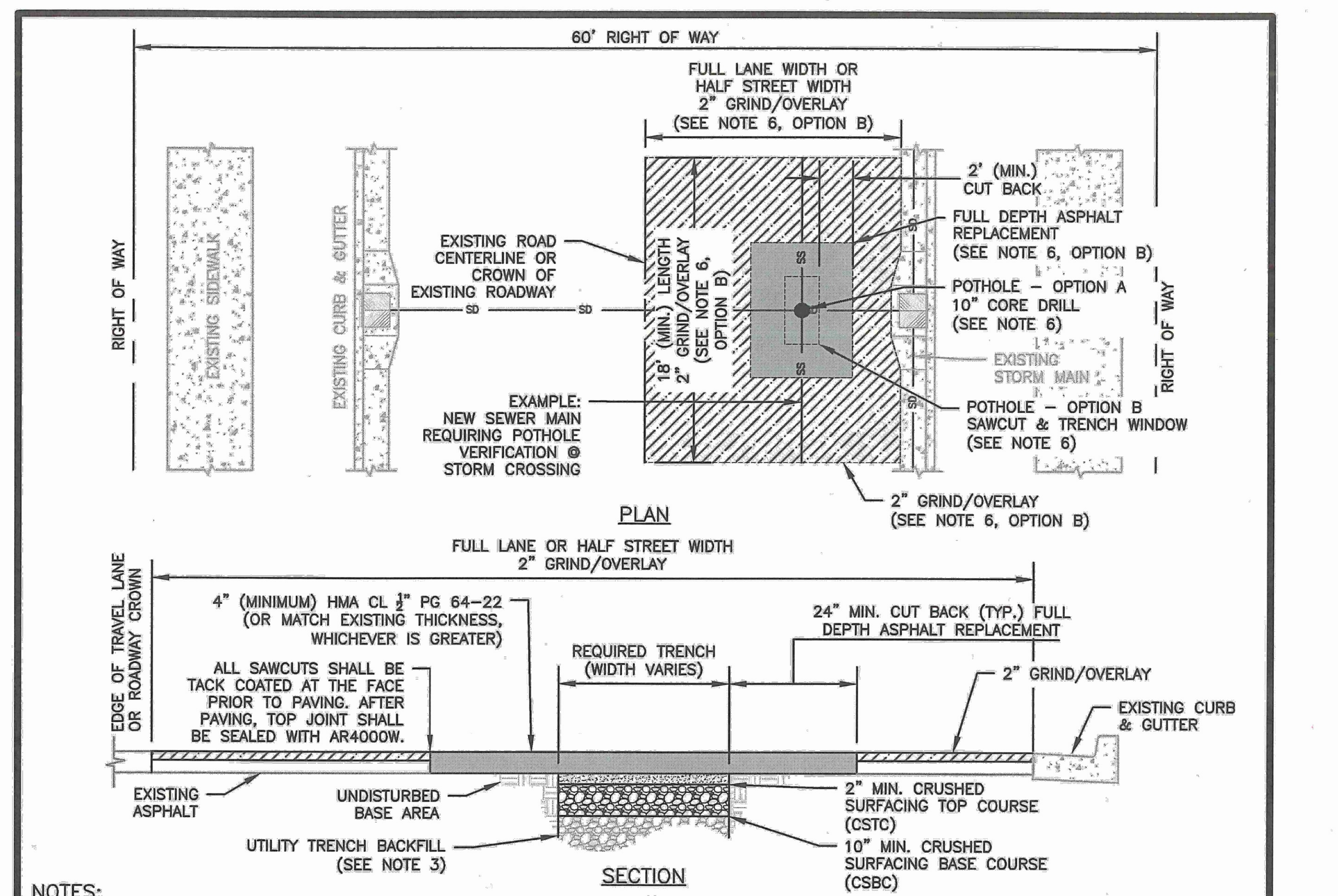


NOTES:
1. BASE AND SUBBASE MATERIAL SHALL BE COMPACTED TO 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY.
2. ALL DEPTHS INDICATED ARE A MINIMUM COMPACTED DEPTH.
3. INITIAL BACKFILLING SHALL BE PERFORMED ONLY AFTER INSPECTION AND APPROVAL OF THE INSTALLED PIPE OR STRUCTURE. THE TRENCH BACKFILL MATERIAL SHALL BE IN ACCORDANCE WITH CITY STANDARD DETAIL NO. 06.01.01.
4. ALL BACKFILL FOR PIPE TRENCHES SHALL BE MECHANICALLY COMPACTED BY A POWER–OPERATED MECHANICAL TAMPER(S) AS SPECIFIED IN WSDOT STANDARD SPEC. 2–03.3 (14)C, COMPACTING EARTH EMBANKMENTS, METHOD C OF THE WSDOT STANDARD SPECIFICATIONS.
5. IF PAVING SURFACES ADJACENT TO THE TRENCH OPENING MAY BE DAMAGED WHERE TRENCHES ARE MADE PARALLEL TO THE STREET, OR WHERE A NUMBER OF CROSS TRENCHES ARE LAID IN CLOSE PROXIMITY TO ONE ANOTHER OR WHERE THE EQUIPMENT USED MAY CAUSE SUCH DAMAGE, THE CITY ENGINEER MAY REQUIRE A NEGOTIATED CONTRIBUTION FROM THE PERMITTEE FOR RESURFACING IN LIEU OF PATCHING.

IF THE TOTAL AREA OF THE PROPOSED PATCH OR PROBABLE DAMAGED AREA EXCEEDS 25 PERCENT OF THE TOTAL PAVEMENT SURFACING BETWEEN CURB FACES OR BETWEEN CONCRETE GUTTER EDGES IN ANY BLOCK, SUCH NEGOTIATIONS SHALL BE CARRIED ON AND CONTRIBUTIONS AGREED UPON PRIOR TO ISSUANCE OF A PERMIT. SUCH CONTRIBUTIONS SHALL BE IN ADDITION TO THE STANDARD PERMIT FEE.
6. POTHOLING FOR UTILITIES:

OPTION A – UP TO A 10" DIAMETER CORE DRILL IS ALLOWED. CORE HOLES MADE DURING UTILITY POTHOLES SHALL BE BACKFILLED WITH CDF TO WITHIN 4" OF FINISHED GRADE. 4" OF HMA SHALL THEN BE PLACED AND COMPACTED, FLUSH WITH EXISTING GRADE.

OPTION B – FOR POTHOLE WINDOWS LARGER THAN 10" IN DIAMETER OR TRENCHING COMPLETED IN EXISTING ROADWAY, THE CONTRACTOR SHALL MEET CITY STANDARD 06.01.01 FOR PIPE BEDDING AND BACKFILL REQUIREMENTS. PAVEMENT RESTORATION SHALL BE ACCOMPLISHED BY INSTALLING THE TRENCH PATCH, AS SHOWN HEREIN, AND THEN GRINDING/OVERLAYING TO A MINIMUM DEPTH OF 2". THE LIMITS OF THE REQUIRED GRIND/OVERLAY SHALL BE TO THE NEAREST LANE LINE, OR HALF STREET, AND SHALL BE A MINIMUM OF 18 FEET LONG (LONGITUDINALLY ALONG ROADWAY) CENTERED AT LOCATION OF PATCH. NOTE: IF EXISTING ASPHALT THICKNESS IS LESS THAN 3", FULL DEPTH PAVEMENT REPLACEMENT, IN LIEU OF GRIND/OVERLAY, TO MEET A MINIMUM ASPHALT THICKNESS OF 4" WILL BE REQUIRED.

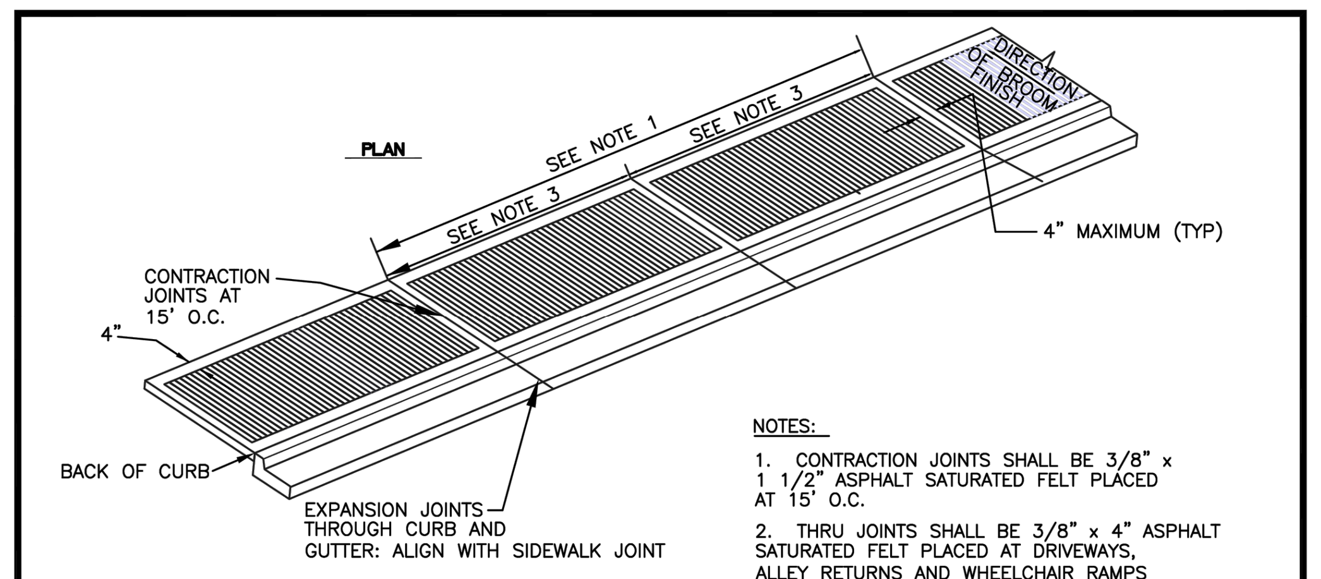
WHERE LOCATION OF TRENCH OR POTHOLE WINDOW INTERSECTS ROAD CENTERLINE, A MINIMUM GRIND AND OVERLAY OF ONE FULL LANE WIDTH (12') IS REQUIRED CENTERED ON ROADWAY. NO LONGITUDINAL JOINTS WILL BE ALLOWED IN THE WHEEL PATH.
7. ALL MANHOLE FRAMES, VALVE FRAMES AND MONUMENT COVERS SHALL BE INSTALLED AFTER PLACEMENT OF ASPHALT. IF MORE THAN ONE LIFT IS NECESSARY, FRAMES AND LIDS WILL BE ADJUSTED TO FINISH GRADE AT FIRST LIFT AS DIRECTED BY THE CITY.

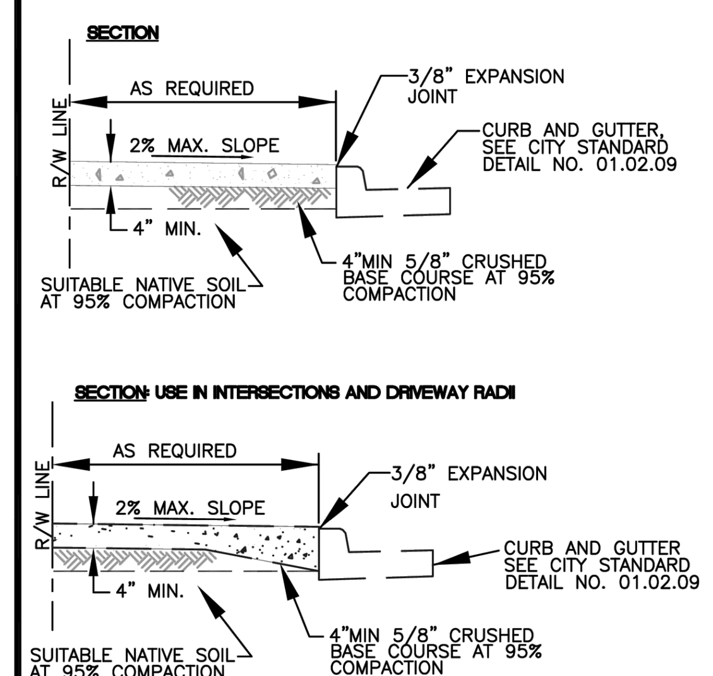
CITY OF PUYALLUP
OFFICE of THE CITY ENGINEER

APPROVED FOR PUBLICATION
HANS P. HUNGER — STATE OF WASHINGTON — 33753 — REGISTERED PROFESSIONAL ENGINEER
DATE SEALED: 3/15/18

STREET PATCH

(NOT TO SCALE)
CITY STANDARD 01.01.20
FILE NAME: F:\DRAWINGS\COMMON\STANDARDS\CITY STANDARDS\2018\02 - PART 2 - STANDARD DETAILS\CAD\100\01.01





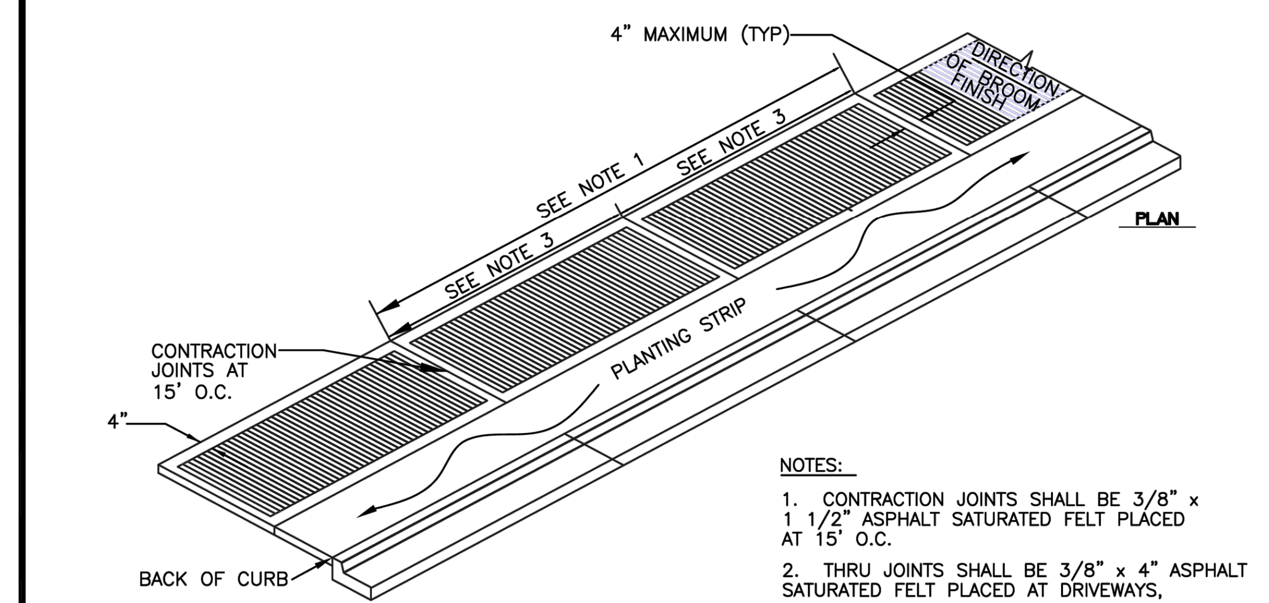
MINIMUM SIDEWALK WIDTHS
5'(RS ZONES) SINGLE FAMILY RESIDENTIAL AREAS (DETACHED DWELLINGS)
8'(RS ZONES) COMMERCIAL USES, WHEN REQUIRED BY DEVELOPMENT SERVICES MANAGER
8'(RM ZONES) MEDIUM AND HIGH DENSITY MULTI–FAMILY RESIDENTIAL AREAS
8'(ML ZONES) INDUSTRIAL AREAS
8'(CG, CBD ZONES) COMMERCIAL AREAS
8'(PF ZONES) PUBLIC FACILITIES AREAS
8'(F ZONES) FAIR AREAS
* MATCH GREATEST WIDTH FOR ANY ADJACENT ZONE

NOTES:
1. CONTRACTION JOINTS SHALL BE 3/8" x 1 1/2" ASPHALT SATURATED FELT PLACED AT 15' O.C.
2. THRU JOINTS SHALL BE 3/8" x 4" ASPHALT SATURATED FELT PLACED AT DRIVEWAYS, ALLEY RETURNS AND WHEELCHAIR RAMPS AND RADII.
3. V–GROOVEMARKS SHALL BE 1/8" DEEP AND 1/4" WIDE PLACED AT 5' O.C. FOR 5' SIDEWALKS AND 7.5' O.C. FOR 8' SIDEWALKS.
4. ALL JOINTS SHALL BE CLEAN AND EDGED TO A 1/4" RADIUS. JOINTS SHALL BE FLUSH WITH THE FINISHED SURFACE.
5. ALL UTILITY POLES AND STREET SIGN POSTS IN SIDEWALK AREA NOT REQUIRED TO BE RELOCATED SHALL HAVE A SQUARE SECTION OF CONCRETE SURROUNDED BY 3/8" EXPANSION JOINT MATERIAL AROUND THE POLE. THE JOINT SHALL BE NO CLOSER THAN 6" TO ANY SIDE OF THE POLE.
6. FORMS SHALL BE EITHER WOOD OR STEEL AND SHALL MEET ALL REQUIREMENTS OF THESE SPECIFICATIONS.
7. CONCRETE SHALL BE CLASS 3000 COMMERCIAL CONCRETE, 5.5 SACK MINIMUM, AASHTO GRADING 467 COARSE AGGREGATE, NO FLY ASH.
8. SIDEWALK MINIMUM UNOBSTRUCTED CLEAR WIDTH SHALL BE 4', EXCLUSIVE OF THE WIDTH OF THE CURB.
9. GRATINGS, ACCESS COVERS, JUNCTION BOXES, CABLE VAULTS, PULL BOXES AND OTHER APPURTENANCES WITHIN THE SIDEWALK (RIGHT–OF–WAY) MUST HAVE SLIP RESISTANT SURFACE AND MATCH THE GRADE OF THE SIDEWALK.
10. CURB RAMPS SHALL BE CONSTRUCTED AT INTERSECTIONS USING A DESIGN PREPARED BY A LICENSED PROFESSIONAL ENGINEER. WHEN A RAMP DESIGN FAILS TO MEET ALL APPLICABLE DESIGN STANDARDS, THE ENGINEER SHALL DOCUMENT WHY THE PROPOSED RAMP ACHIEVES DESIGN STANDARDS TO THE MAXIMUM EXTENT FEASIBLE.

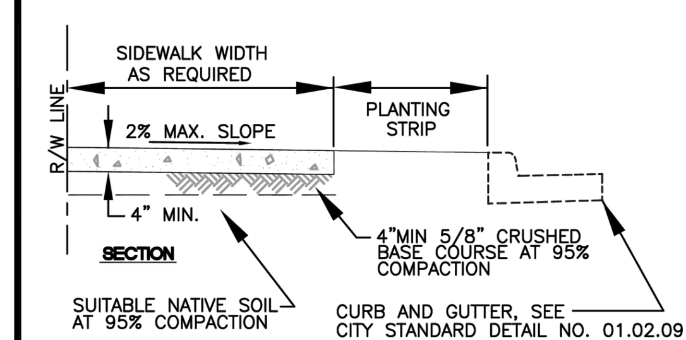
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

SIDEWALK WITHOUT PLANTING STRIP

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
JIM ERWIN-SVOBODA	LINDA LIAN	COLLEEN HARRIS	LINDA LIAN	01.02.01
FILE NAME F:\DWG\COMMON\STDS\CITY\2009\01_STR\01.02\01.02.01		DATE APPROVED 07/01/2009	DATE REVISED 03/21/11	SCALE 1:8



MINIMUM SIDEWALK WIDTHS
5'(RS ZONES) SINGLE FAMILY RESIDENTIAL AREAS (DETACHED DWELLINGS)
8'(RS ZONES) COMMERCIAL USES, WHEN REQUIRED BY DEVELOPMENT SERVICES MANAGER
8'(RM ZONES) MEDIUM AND HIGH DENSITY MULTI–FAMILY RESIDENTIAL AREAS
8'(ML ZONES) INDUSTRIAL AREAS
8'(CG, CBD ZONES) COMMERCIAL AREAS
8'(PF ZONES) PUBLIC FACILITIES AREAS
8'(F ZONES) FAIR AREAS
* MATCH GREATEST WIDTH FOR ANY ADJACENT ZONE

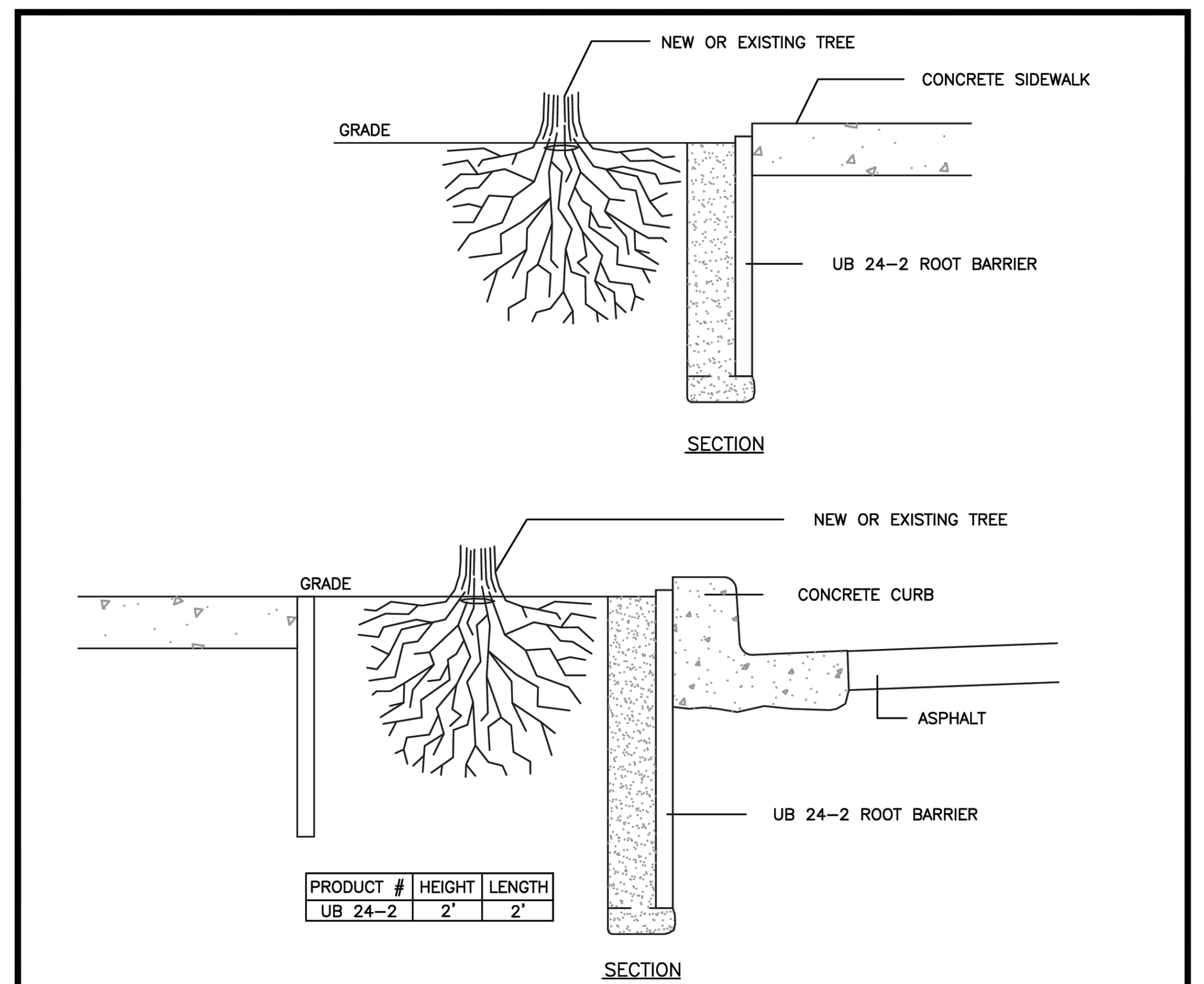


NOTES:
1. CONTRACTION JOINTS SHALL BE 3/8" x 1 1/2" ASPHALT SATURATED FELT PLACED AT 15' O.C.
2. THRU JOINTS SHALL BE 3/8" x 4" ASPHALT SATURATED FELT PLACED AT DRIVEWAYS, ALLEY RETURNS AND WHEELCHAIR RAMPS AND RADII.
3. V–GROOVEMARKS SHALL BE 1/8" DEEP AND 1/4" WIDE PLACED AT 5' O.C. FOR 5' SIDEWALKS AND 7.5' O.C. FOR 8' SIDEWALKS.
4. ALL JOINTS SHALL BE CLEAN AND EDGED TO A 1/4" RADIUS. JOINTS SHALL BE FLUSH WITH THE FINISHED SURFACE.
5. ALL UTILITY POLES AND STREET SIGN POSTS IN SIDEWALK AREA NOT REQUIRED TO BE RELOCATED SHALL HAVE A SQUARE SECTION OF CONCRETE SURROUNDED BY 3/8" EXPANSION JOINT MATERIAL AROUND THE POLE. THE JOINT SHALL BE NO CLOSER THAN 6" TO ANY SIDE OF THE POLE.
6. FORMS SHALL BE EITHER WOOD OR STEEL AND SHALL MEET ALL REQUIREMENTS OF THESE SPECIFICATIONS.
7. CONCRETE SHALL BE CLASS 3000 COMMERCIAL CONCRETE, 5.5 SACK MINIMUM, AASHTO GRADING 467 COARSE AGGREGATE, NO FLY ASH.
8. SIDEWALK MINIMUM UNOBSTRUCTED CLEAR WIDTH SHALL BE 4', EXCLUSIVE OF THE WIDTH OF THE CURB.
9. GRATINGS, ACCESS COVERS, JUNCTION BOXES, CABLE VAULTS, PULL BOXES AND OTHER APPURTENANCES WITHIN THE SIDEWALK (RIGHT OF WAY) MUST HAVE SLIP RESISTANT SURFACES AND MATCH THE GRADE OF THE SIDEWALK.
10. CURB RAMPS SHALL BE CONSTRUCTED AT INTERSECTIONS USING A DESIGN PREPARED BY A LICENSED PROFESSIONAL ENGINEER. WHEN A RAMP DESIGN FAILS TO MEET ALL APPLICABLE DESIGN STANDARDS, THE ENGINEER SHALL DOCUMENT WHY THE PROPOSED RAMP ACHIEVES DESIGN STANDARDS TO THE MAXIMUM EXTENT FEASIBLE.

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

SIDEWALK WITH PLANTING STRIP

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
JIM ERWIN-SVOBODA	LINDA LIAN	COLLEEN HARRIS	LINDA LIAN	01.02.02
FILE NAME F:\DWG\COMMON\STDS\CITY\2009\01_STR\01.02\01.02.02		DATE APPROVED 07/01/2009	DATE REVISED 03/21/11	SCALE 1:8



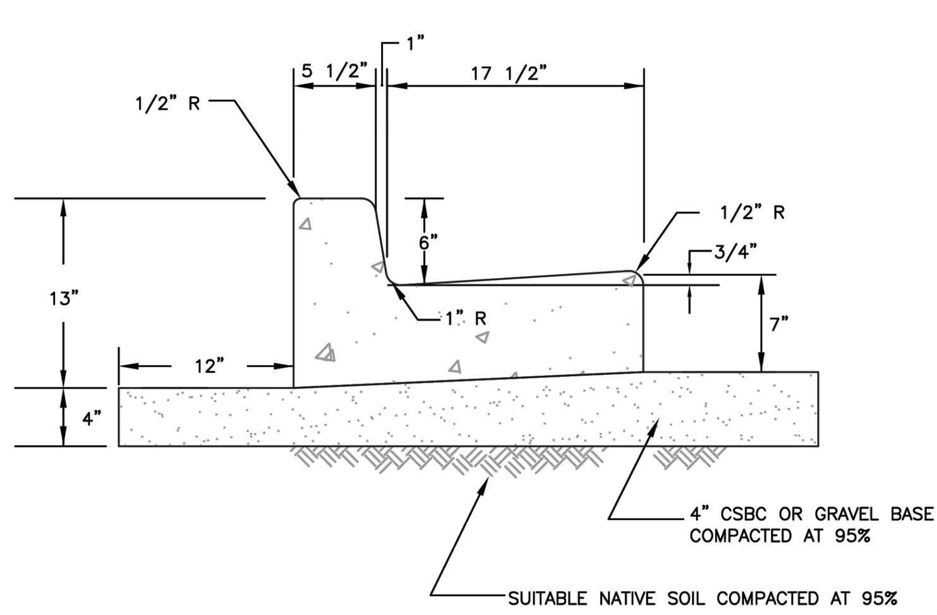
PRODUCT #	HEIGHT	LENGTH
UB 24–2	2'	2'

NOTES:
1. ROOT BARRIERS SHALL BE REQUIRED IN ALL STREET TREE PLANTING INSTALLATIONS WHETHER NEW OR EXISTING, WHEN STREET TREES ARE INSTALLED IN RIGHT–OF–WAY OR IN A PLANTING EASEMENT*.
2. ROOT BARRIERS USED SHALL BE DeepRoot ROOT BARRIERS OR EQUIVALENT.
3. UB – 24 SHALL BE USED
4. ROOT BARRIERS SHALL BE INSTALLED IF REQUIRED BY THE CITY.
5. INSTALLATION OF ROOT BARRIERS TO BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
6. THE PANEL SHALL BE INSTALLED SO THE VERTICAL RIBS FACE THE ROOTS OF THE TREE. A MINIMUM OF FOUR (4) PANELS SHALL BE INSTALLED ON EACH SIDE OF ROOT BALL FOR 8' OF PROTECTION.
7. FOR PRODUCT INFORMATION VISIT:
http://www.deeproot.com/template.php?sec=products&nav=treeRoot&content=rb_app&sub=2&lsel=1
*"PLANTING EASEMENT" SHALL MEAN THAT PORTION OF LAND MADE AVAILABLE AS A PUBLIC EASEMENT FOR THE PURPOSE OF PLANTING AND MAINTAINING CITY STREET TREES. ALL STREET TREES PLANTED WITHIN A PLANTING EASEMENT SHALL BE PLANTED WITHIN THREE FEET OF RIGHT–OF–WAY.

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

ROOT BARRIER DETAIL

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
JIM ERWIN-SVOBODA	CHRIS BEALE	COLLEEN HARRIS	LINDA LIAN	01.02.03
FILE NAME F:\DWG\COMMON\STDS\CITY\2009\01_STR\01.02\01.02.03		DATE APPROVED 07/01/2009	DATE REVISED 08/01/2015	SCALE 1:1

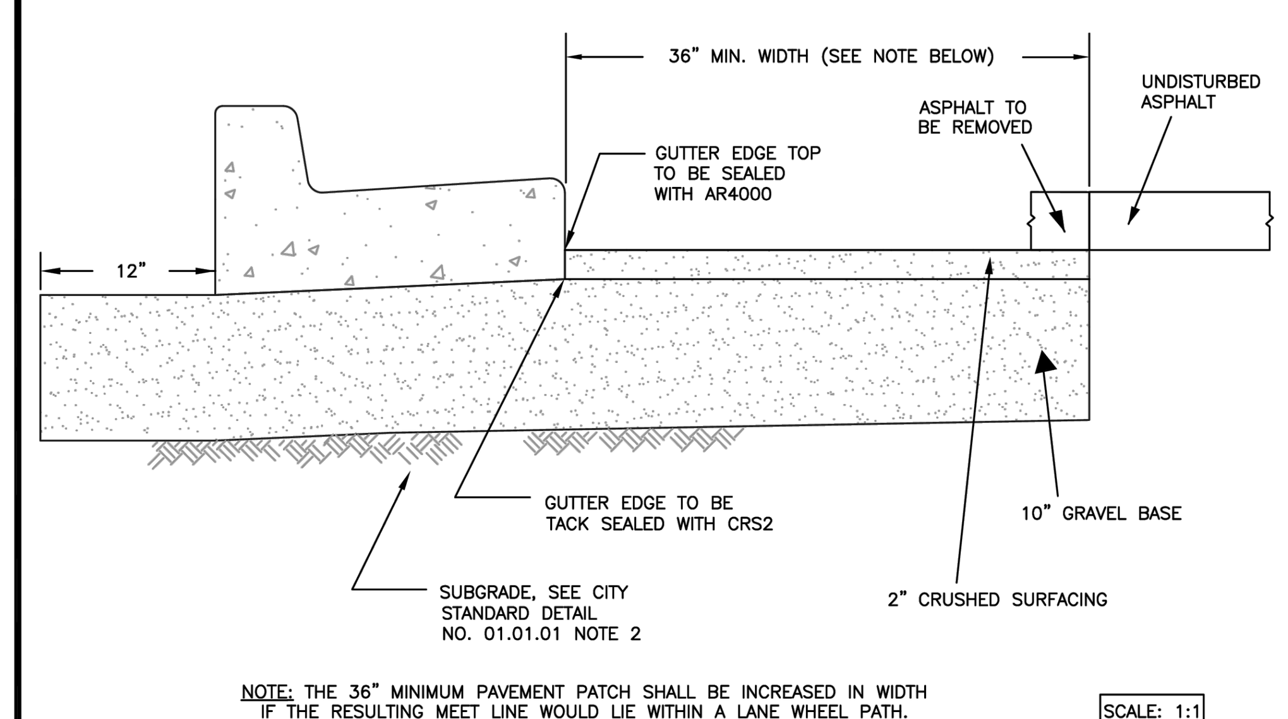


NOTES:
1. CONTRACTION JOINTS SHALL BE 3/8" x 2 1/4" ASPHALT SATURATED FELT PLACED IN ALL EXPOSED SURFACES OF CURB AND GUTTER AND SPACED AT 15' MAX. 10' MIN. O.C.
2. THRU JOINTS SHALL BE 3/8" ASPHALT SATURATED FELT PLACED AT POINTS OF TANGENCY ON CURVES, AT CATCH BASINS, AND AT EDGES OF ALLEY AND DRIVEWAYS. THE MAXIMUM DISTANCE BETWEEN THRU JOINTS SHALL BE 100'.
3. CONCRETE SHALL BE CLASS 3000 COMMERCIAL CONCRETE, 5.5 SACK MINIMUM, AASHTO GRADING 467 COARSE AGGREGATE, NO FLY ASH.
4. FORMS SHALL BE STEEL UNLESS PRIOR APPROVAL IS GIVEN BY THE CITY ENGINEER. FORMS SHALL BE SET TRUE TO LINE AND GRADE AND SECURELY STAKED PRIOR TO CONCRETE PLACEMENT. FULL DEPTH DIVISION PLATES ARE ONLY TO BE USED WHERE THRU JOINTS ARE TO BE PLACED.
5. THE 1" RADIUS ON THE UPPER FACE OF THE CURB MAY BE FORMED BY AN EDGER TOOL OR BUILT INTO THE FACE FORM. THE 1" RADIUS AT THE BOTTOM FACE OF THE CURB SHALL BE FORMED BY THE FACE FORM.

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

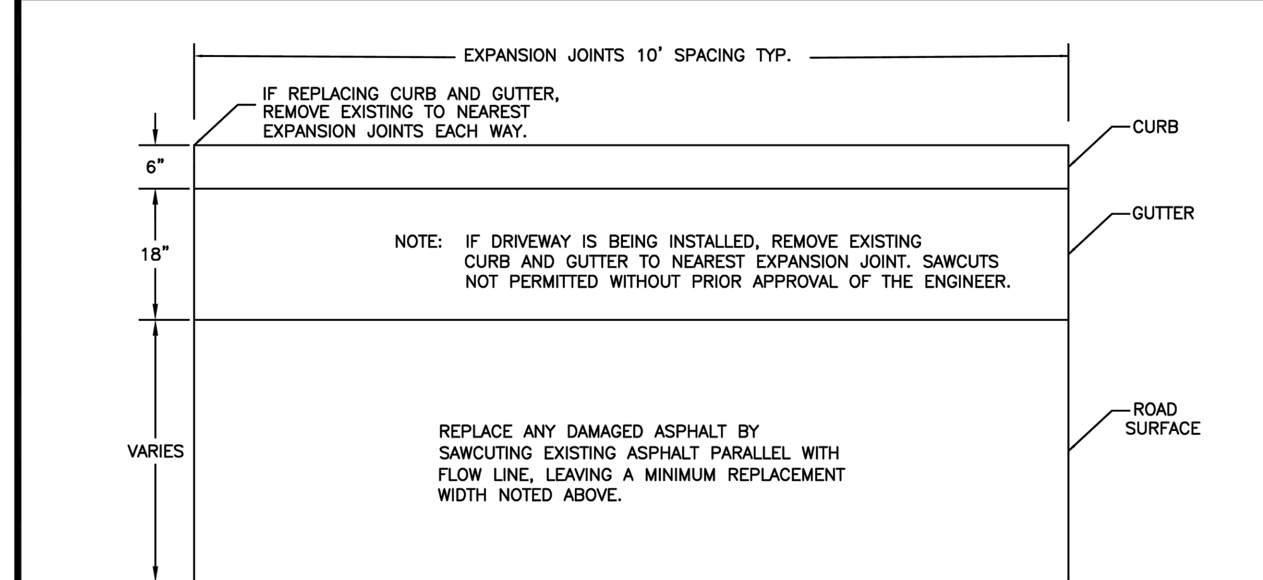
CURB AND GUTTER

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
JIM ERWIN-SVOBODA	LINDA LIAN	COLLEEN HARRIS	Linda Lian	01.02.09
FILE NAME F:\DWG\COMMON\STDS\CITY\2009\01_STR\01.02\01.02.09		DATE APPROVED 07/01/2009	DATE REVISED 05/23/12	SCALE 1:1



NOTE: THE 36" MINIMUM PAVEMENT PATCH SHALL BE INCREASED IN WIDTH IF THE RESULTING MEET LINE WOULD LIE WITHIN A LANE WHEEL PATH.

SCALE: 1:1



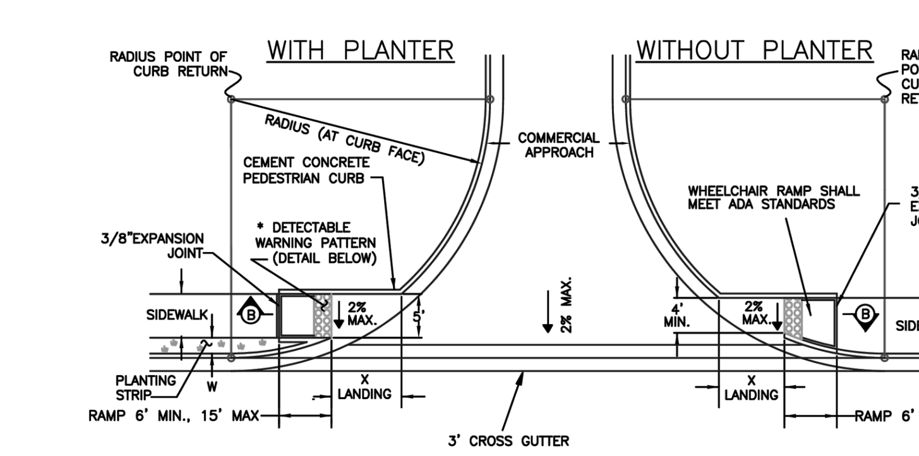
PLAN VIEW

SCALE: 1:2

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

CURB CUT

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
JIM ERWIN-SVOBODA	LINDA LIAN	COLLEEN HARRIS	XXXX	01.02.10
FILE NAME F:\DWG\COMMON\STDS\CITY\2009\01_STR\01.02\01.02.10		DATE APPROVED 07/01/2009	DATE REVISED XX/XX/XX	SCALE VARIES



GEOMETRICS TABLE

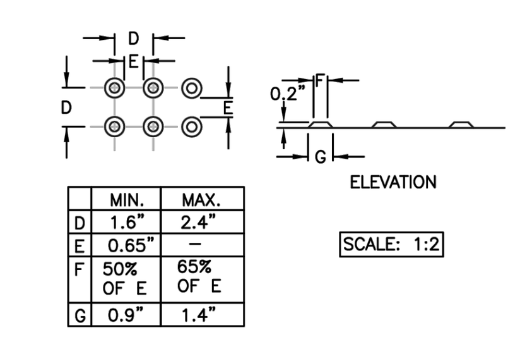
RADIUS (AT CURB FACE)	W = 3' - 0"	W = 4' - 0"	W = 5' - 0"	W = 6' - 0"
	X	X	X	X
25 FEET	6'-3 1/3"	5'-7 1/4"	4'-11 1/8"	4'-4 3/4"
30 FEET	7'-3 3/4"	6'-5 1/2"	5'-9 1/4"	5'-2 1/2"
35 FEET	8'-1 1/3"	7'-1 3/4"	6'-5 1/8"	5'-10 1/8"
40 FEET	8'-9 1/2"	7'-10"	7'-1"	6'-5 3/4"
50 FEET	10'-3/4"	9'-1/4"	8'-2 1/2"	7'-6 1/2"

X = LANDING

CURB GRADE	PROWAG UP-HILL RAMP LENGTH	PROWAG RAMP SLOPE
0.5%	6'-5"	8.3%
1.5%	7'-6"	8.3%
3%	9'-5"	8.3%
5%	15'	8.3%
7%	15'	10.3%
9%	15'	12.3%

NOTES:
1. AVOID PLACING DRAINAGE STRUCTURES OR OTHER OBSTRUCTIONS IN RAMP AND CROSSING AREA.
2. DETECTABLE WARNING PATTERNS MAY BE CREATED BY ANY METHOD THAT WILL ACHIEVE THE TRUNCATED DOME DIMENSIONS AND SPACING SHOWN. THE DETECTABLE WARNING PATTERN AREA SHALL BE YELLOW, AND MATCH THE COLOR OF "FEDERAL STANDARD 595, COLOR NUMBER 33538.
3. FOR SIDEWALK EXPANSION JOINT LOCATIONS AND ADDITIONAL INFORMATION, SEE CITY STANDARD DETAIL NO. 01.02.01 & 01.02.02.
4. CURB RAMP SLOPE SHALL NOT EXCEED 8.3%, AS MEASURED BY A SMART LEVEL, UNLESS RAMP LENGTH IS EXTENDED TO 15'.

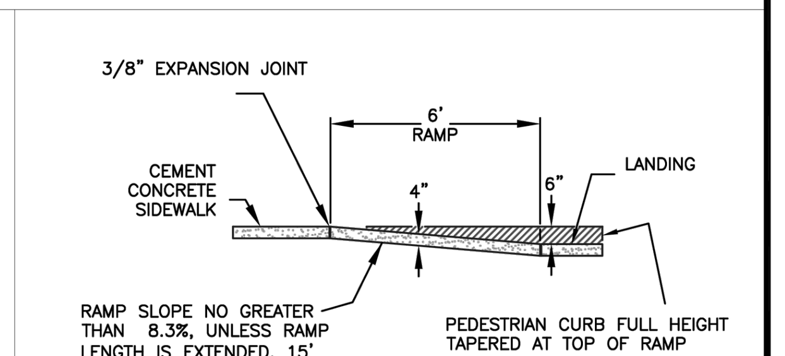
SCALE: 1"=20'



	MIN.	MAX.
D	1.6"	2.4"
E	0.65"	–
F	50% OF E	65% OF E
G	0.9"	1.4"

SCALE: 1:2

DETECTABLE WARNING PATTERN DETAIL



SECTION (B)

SCALE: 1"=5'

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

SIDEWALK RAMP WITH COMMERCIAL APPROACHES

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
JIM ERWIN-SVOBODA	LINDA LIAN	COLLEEN HARRIS	LINDA LIAN	01.02.19
FILE NAME F:\DWG\COMMON\STDS\CITY\2009\01_STR\01.02\01.02.19		DATE APPROVED 07/01/2009	DATE REVISED 08/09/12	SCALE VARIES

⚠1 CITY COMMENTS – 07–13–21
• ADDED CoP APPROVAL STAMP

APPROVED
BY________________________
CITY OF PUYALLUP ENGINEERING SERVICES
DATE______________________
NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.
THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.
FIELD CONDITIONS MAY DICTATE CHANGES TO THE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

No.	Date	By	Ckd.	Appr.	Revision
1	2/10/25	DC	DD	DD	REVISED PER SITE PLAN CHANGES

Title: GENERAL DETAILS - ASBUILT
HOMEWOOD SUITES

For: HERITAGE INN & SUITES OF PUYALLUP, LLC
4500 36TH AVE. S, SUITE 200
FARGO, NE 58104

DON E. DAWES — STATE OF WASHINGTON — 42009 — REGISTERED PROFESSIONAL ENGINEER
[illegible]
8/29/25

Scale: Horizontal N/A Vertical N/A

Designed DC
Drawn DC
Checked DD
Approved DD
Date 8/29/25

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number 22507
Sheet C-7 of 8

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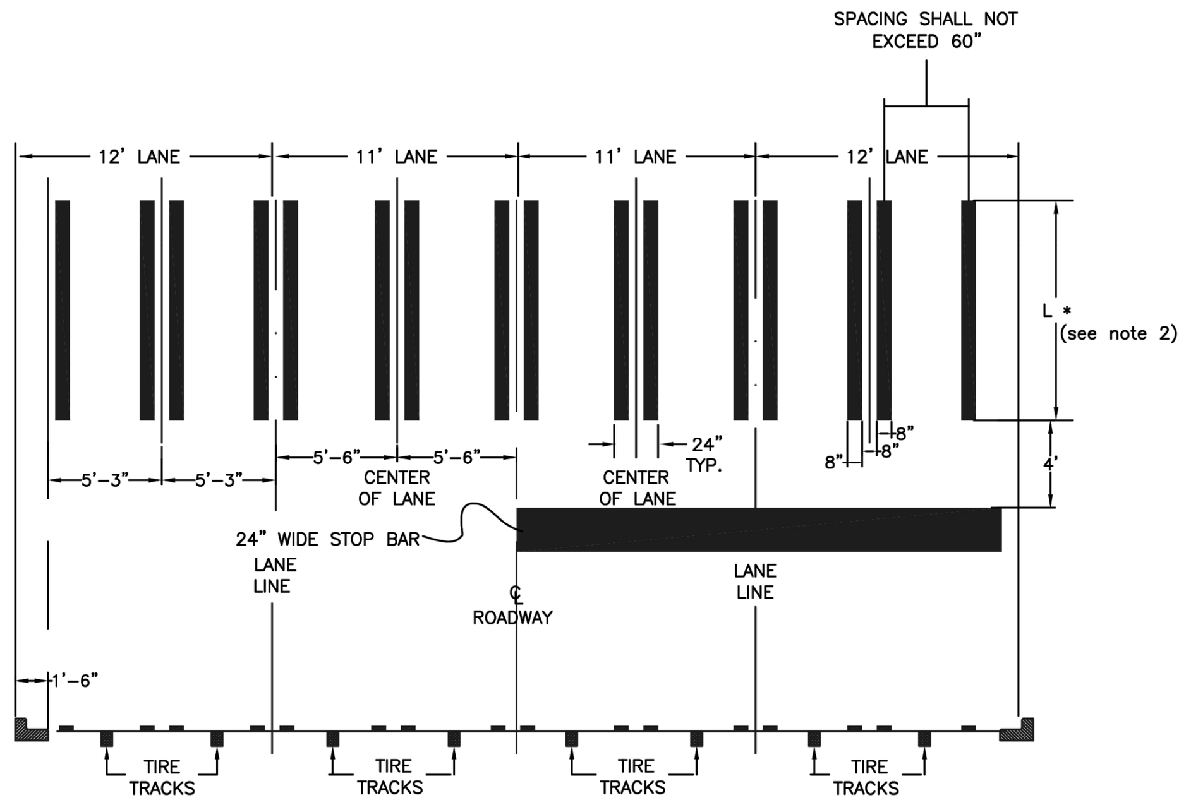


NOTES:

1) FOR ALL ROADWAYS, THE LONGITUDINAL LINES SHALL BE CENTERED ON THE LANE LINES AND IN THE CENTER OF THE TRAVELED PORTION OF THE LANE TO MINIMIZE TIRE WEAR. THE SPACING BETWEEN THE LONGITUDINAL LINES SHALL NOT EXCEED 60".

* 2) THE LENGTH OF A CROSSWALK SHALL BE 8' ACROSS RESIDENTIAL STREETS, 10' ACROSS COLLECTORS AND MINOR ARTERIALS AND 12' ACROSS PRINCIPAL ARTERIALS. HOWEVER, THE LENGTH OF A CROSSWALK SHALL BE 8' ACROSS SIDE STREETS ALONG COLLECTORS AND MINOR ARTERIALS AND 12' ACROSS SIDE STREETS ALONG PRINCIPAL ARTERIALS.

3) STOP BAR WHEN USED WITH A CROSSWALK SHALL BE PLACED FOUR FEET IN ADVANCE OF AND PARALLEL TO THE CROSSWALK ALL STOP BARS SHALL BE 24" WIDE.

4) PAVEMENT MARKINGS, INCLUDING CROSSWALKS, SHALL BE TYPE A LIQUID HOT APPLIED THERMOPLASTIC. PER STANDARD SPECIFICATIONS, SECTION 9-34 PAVEMENT MARKING MATERIAL, 9-34.1 GENERAL.

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

CROSSWALK DETAIL

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
JIM ERWIN-SVOBODA	LINDA LIAN	COLLEEN HARRIS	LINDA LIAN	01.03.11
FILE NAME F:\DWG\COMMON\STDS\CITY\2009\01_STR\01.03\01.03.11		DATE APPROVED 07/01/2009	DATE REVISED 09/11/2013	SCALE 1:8

NOTES:
1. CENTERLINE STRIPE FOR CHANNELIZATION SHALL BE DETAIL B OR DETAIL C AS DIRECTED BY CITY. CENTERLINE STRIPE FOR ALL COLLECTORS SHALL BE DETAIL D WITH TYPE 2YY RPM SPACED AT 80' INTERVALS ON TANGENTS AND HORZ. CURVES WITH A RADIUS OF 5000' OR MORE AND 40' INTERVALS ON HORZ. CURVES LESS THAN 5000'. CENTERLINE STRIPE FOR ARTERIALS SHALL BE DETAIL E WITH RPM SPACING AS PREVIOUSLY DEFINED.
2. ROADS, UNLESS OTHERWISE DETERMINED BY THE CITY, (ARTERIALS & COLLECTORS) LONGITUDINAL LINES SHALL BE PAINTED. APPLIED 14 MILS WHEN WET.
3. NO PASSING ZONES IN ONE DIRECTION OR BOTH SHALL BE CLEARLY MARKED WITH CENTERLINE STRIPE, DETAIL B OR DETAIL C OR COMBINATION OF DETAIL D AND DETAIL E.
4. ON WIDE INTERSECTIONS SPACE TYPE 1 OR 2 RPM 4 FEET ON CENTER.

RAISED PAVEMENT MARKERS

TYPE 2 RPM (REFLECTIVE)
RAISED FACE COLORS

TYPE 2WR	WHITE AND RED
TYPE 2YR	YELLOW AND RED
TYPE 2YY	YELLOW AND YELLOW
TYPE 2W	WHITE – ONE SIDE ONLY
TYPE 2Y	YELLOW – ONE SIDE ONLY

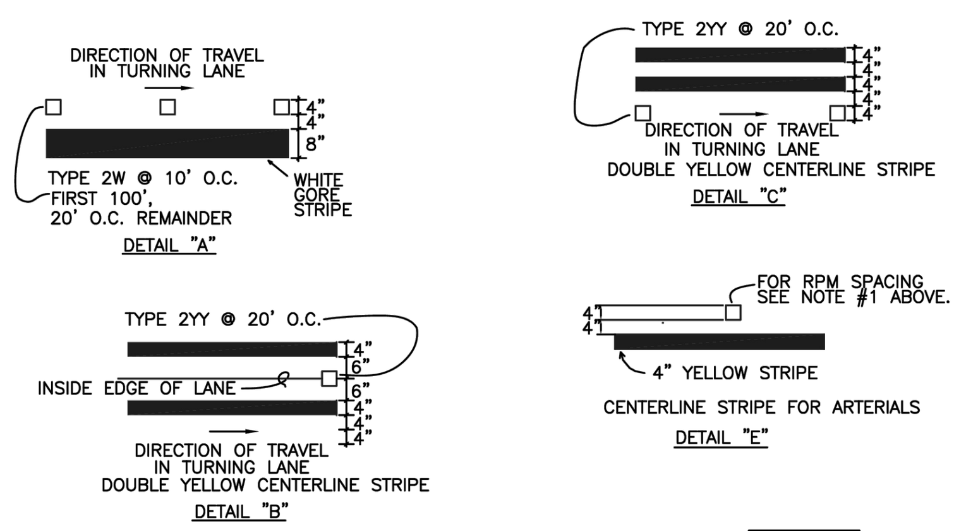
TYPE 1 RPM COLORS

TYPE 1W	WHITE
TYPE 1Y	YELLOW

*TYPE 3 RPM COLORS

TYPE 3W	8" RUMBLE BAR – WHITE
TYPE 3Y	8" RUMBLE BAR – YELLOW

* CITY MAY REQUIRE REFLECTIVE.



SCALE: 1:4

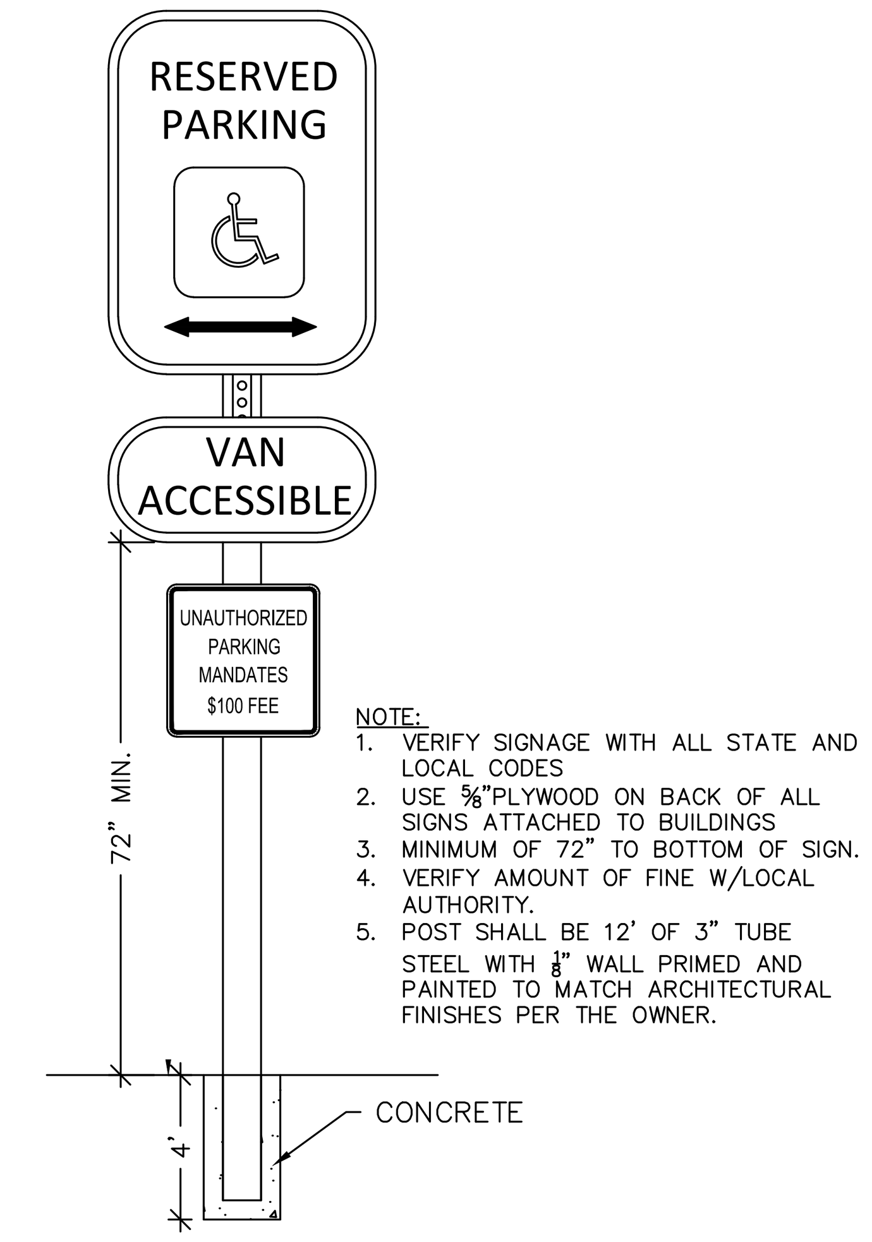
SKIP STRIPE PATTERN FOR CENTERLINES AND LANE LINES.
DETAIL "D"

SCALE: 1:20

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

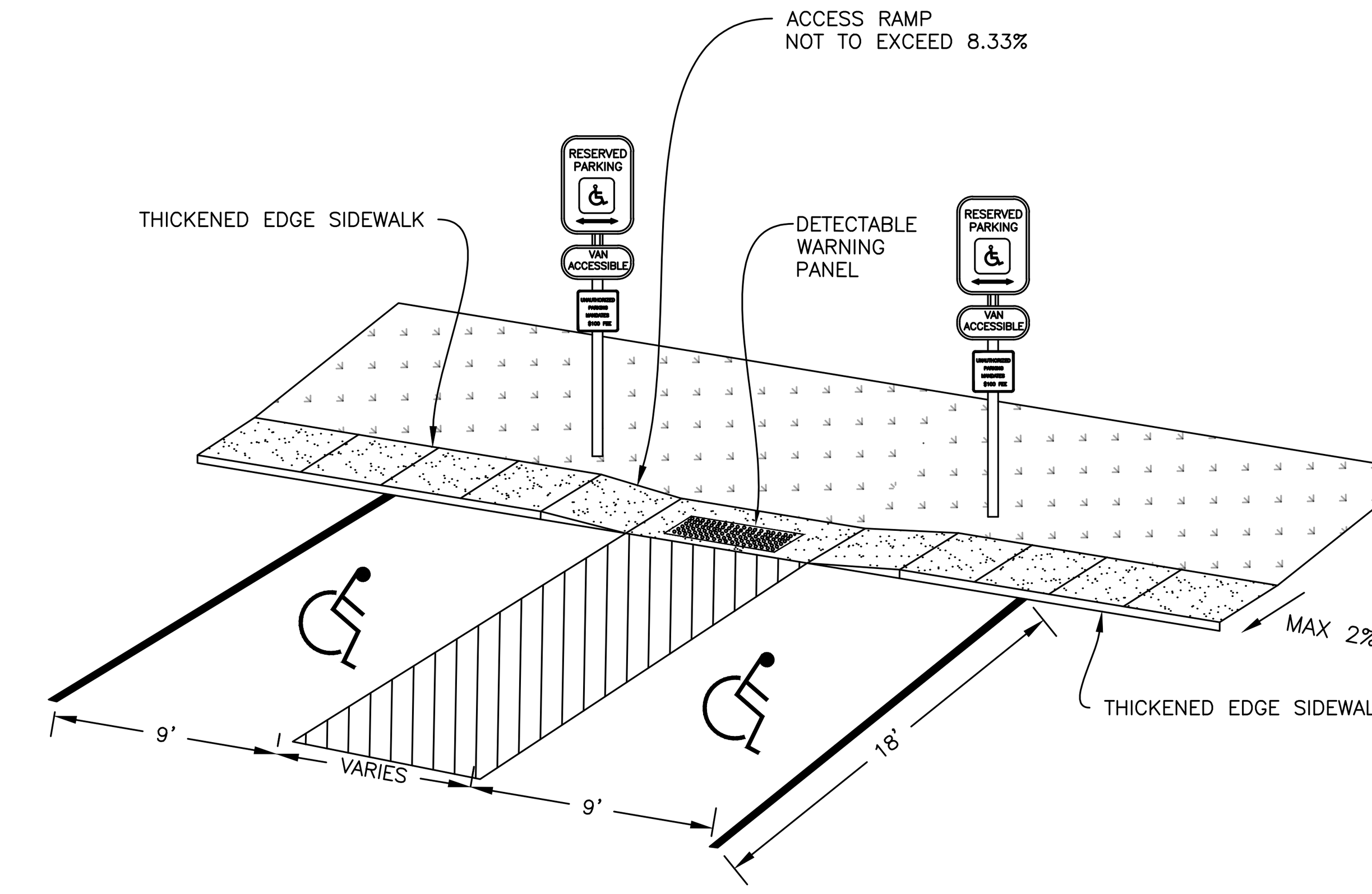
PAVEMENT MARKING DETAILS

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
JIM ERWIN-SVOBODA	LINDA LIAN	COLLEEN HARRIS	XXXX	01.03.10
FILE NAME F:\DWG\COMMON\STDS\CITY\2009\01_STR\01.03\01.03.10		DATE APPROVED 07/01/2009	DATE REVISED XX/XX/XX	SCALE VARIES

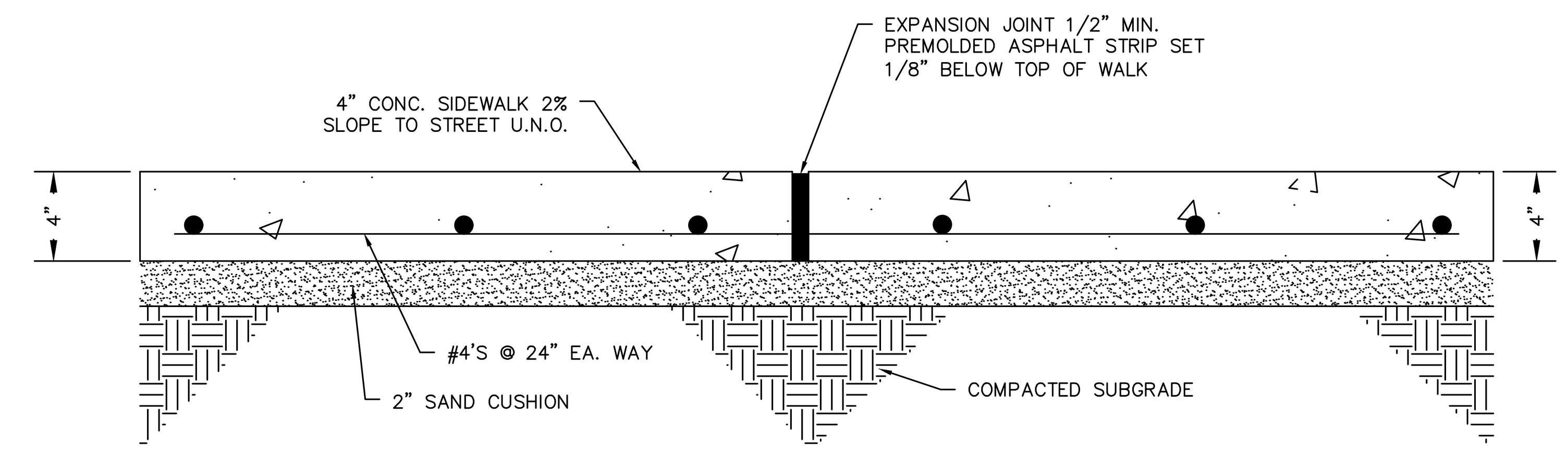


NOTE:
1. VERIFY SIGNAGE WITH ALL STATE AND LOCAL CODES
2. USE ⅝"PLYWOOD ON BACK OF ALL SIGNS ATTACHED TO BUILDINGS
3. MINIMUM OF 72" TO BOTTOM OF SIGN.
4. VERIFY AMOUNT OF FINE W/LOCAL AUTHORITY.
5. POST SHALL BE 12' OF 3" TUBE STEEL WITH ⅛" WALL PRIMED AND PAINTED TO MATCH ARCHITECTURAL FINISHES PER THE OWNER.

1 STANDARD ADA PARKING SIGN DETAIL
N.T.S.

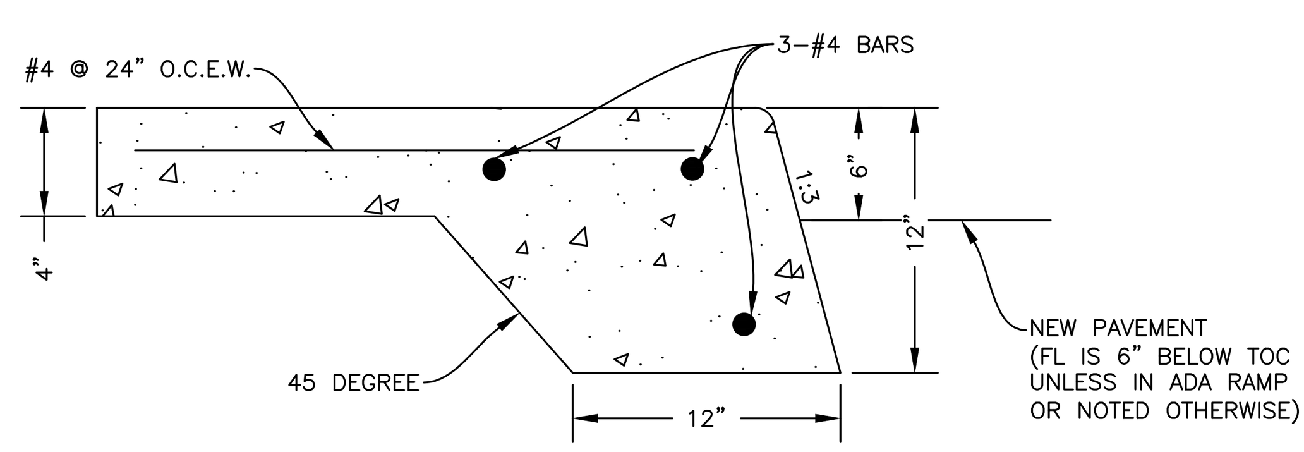


2 ADA RAMP
NTS



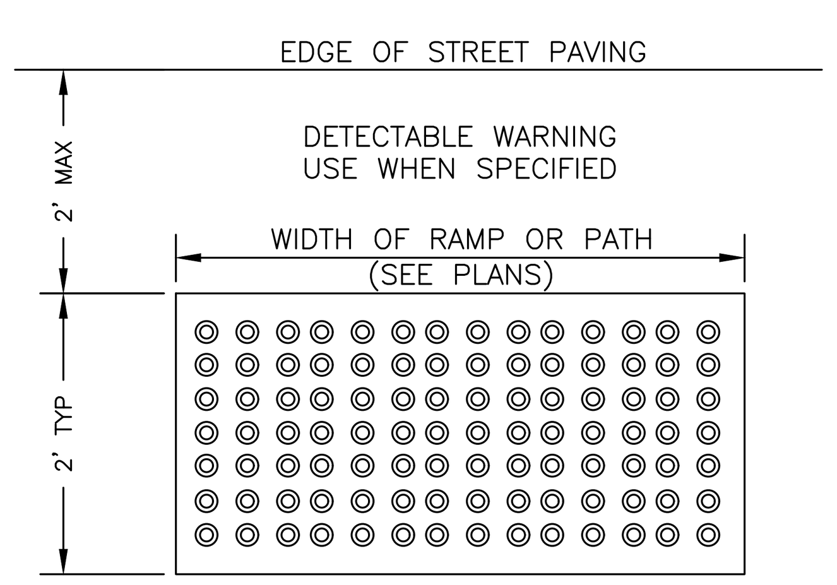
NOTES:
1. SAW CUT 1" DEEP EXPANSION JOINTS WITH #3 DOWELS 12" O.C. AT 6' INTERVALS OR LESS AND PROVIDE ½" EXPANSION MATERIAL AT ALL CONCRETE WALK INTERSECTIONS, DOOR OPENINGS, BUILDING WALLS, EXISTING CONCRETE JOINTS, & ADJACENT TO CURB AND GUTTER.
2. MAXIMUM CROSS SLOPE 2% FROM BUILDINGS, MAXIMUM LONGITUDINAL SLOPE 5%.
3. CONCRETE SHALL BE 4,000 (OR HIGHER) PSI AND PER CITY OF CONCORD SPECIFICATIONS.

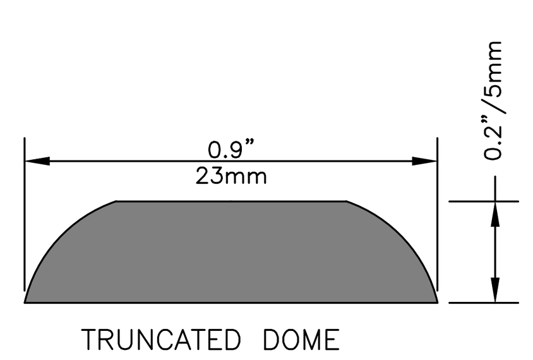
5 4" CONCRETE SIDEWALK DETAIL
N.T.S.

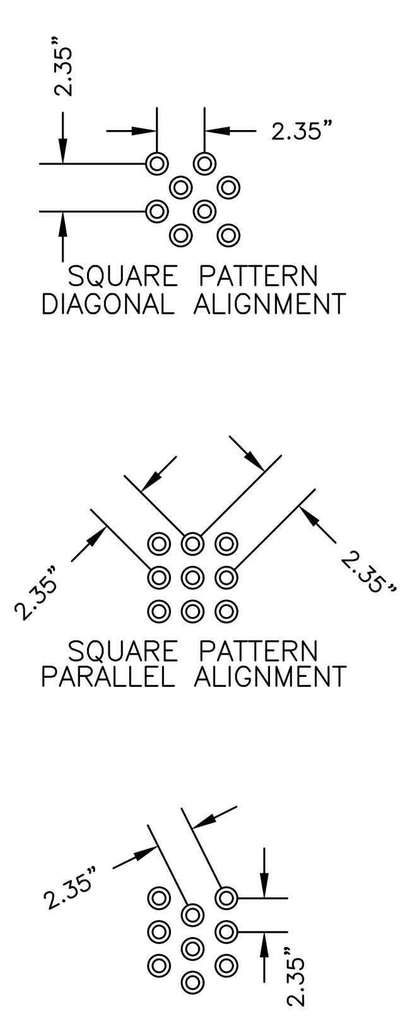


NOTES:
1. PROVIDE 1/2" EXPANSION MATERIAL AT EXISTING CONCRETE JOINTS, BUILDINGS & ADJACENT TO CURB AND GUTTER.
2. PROVIDE FULL DEPTH EXPANSION JOINT WITH 1/2" EXPANSION MATERIAL AT 60' INTERVALS.
3. SAWCUT 1" DEEP AT 6' INTERVALS OR LESS TO APPROXIMATE SQUARE DESIGN.
4. PROVIDE 2-1/2" SMOOTH DOWELS @ 24" O.C. AT EXPANSION JOINTS.
5. CONCRETE SHALL BE 4,000 (OR HIGHER) PSI.

4 THICKENED EDGE CONCRETE
N.T.S.

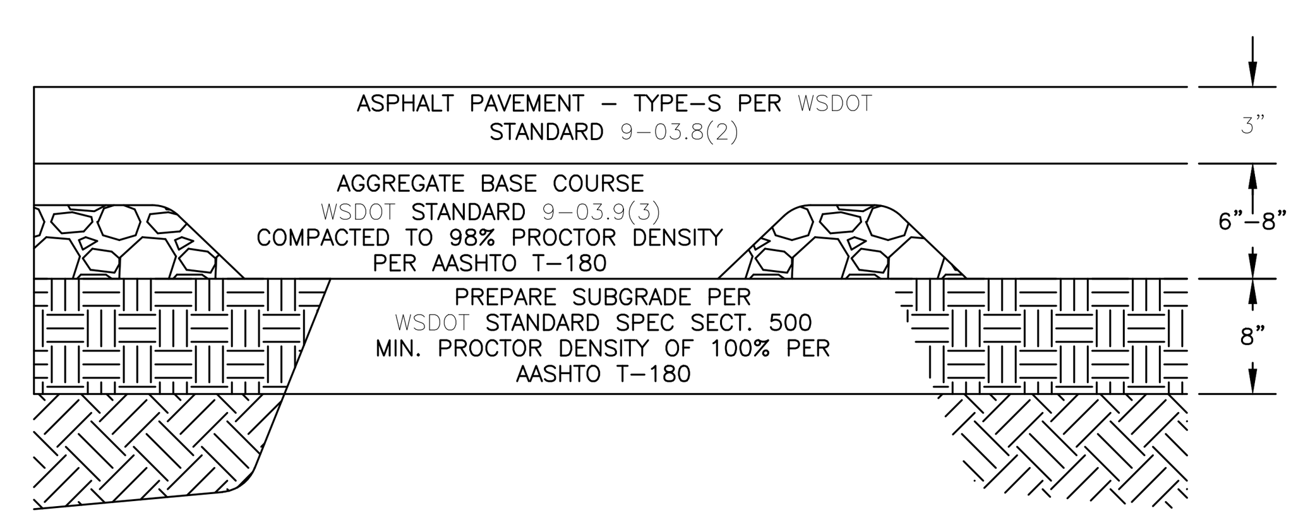






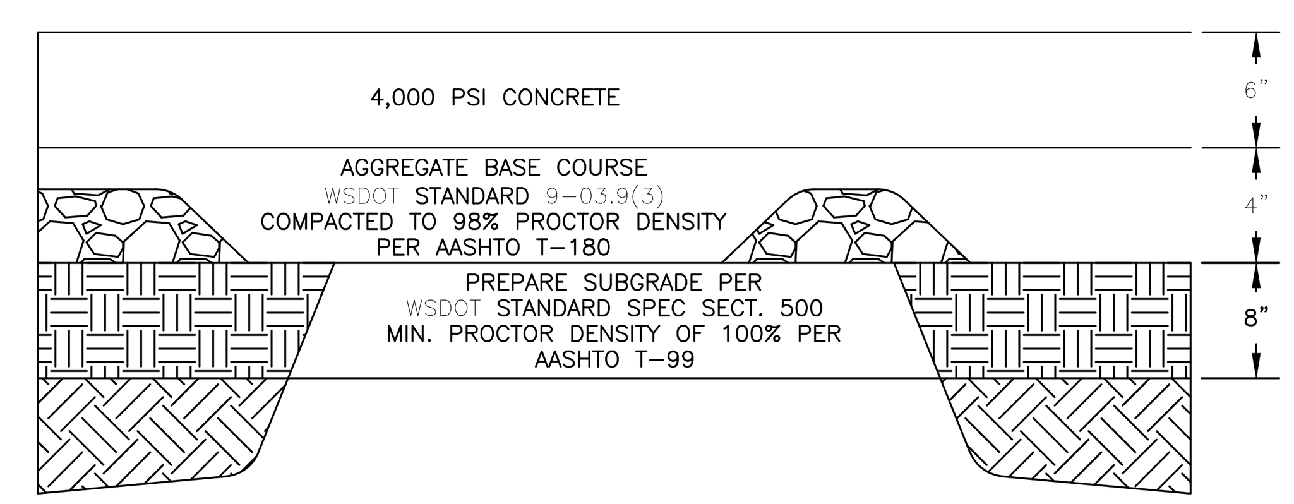
NOTES:
1. TRUNCATED DOME PANELS SHALL BE RED FIBERGLASS AND CAST IN PLACE OR EQUAL APPROVED IN WRITING BY THE PERMITTING AUTHORITY.
2. THE DETECTABLE WARNING SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON DARK, OR DARK-ON-LIGHT AND MEET THE CONFIGURATION AND DIMENSION SHOWN (PER ADAAG 4.29.2).

3 TRUNCATED DOME PANELS
N.T.S.



NOTES:
1. ALL PAVING MATERIALS AND CONSTRUCTION SHALL MEET WSDOT STANDARDS.
2. SITE ENTRY SHALL HAVE AN 8" AGGREGATE BASE COURSE, ALL REMAINING DRIVES AND PARKING SHALL HAVE A 6" AGGREGATE BASE COURSE.

6 3" ASPHALT PAVEMENT
N.T.S.



NOTES:
1. CONCRETE SHALL BE 4,000 (OR HIGHER) PSI AND PER WSDOT SPECIFICATIONS
2. INSTALL #4 REBAR STEEL REINFORCEMENT AT 24" ON CENTER EACH WAY THROUGHOUT CONCRETE PAVEMENT
3. REBAR SHALL BE INSTALLED AT MID DEPTH OF CONCRETE AND BE SUPPORTED BY "REBAR CHAIRS"
4. CONCRETE SHALL BE SAW CUT TO A DEPTH OF 1.5" IN A +/-10' GRID PATTERN
5. CONCRETE SHALL BE TIED TO ALL CURB AND GUTTER WITH 18"-#4 SMOOTH DOWEL AT 24" O.C. ONE END SHALL BE GREASED OR SLIP CAP PROVIDED.
6. ANY ORGANIC SOILS "BLACK DIRT" ENCOUNTERED SHALL BE REMOVED FROM BELOW PAVEMENT SECTION UNDER THE DIRECTION OF THE GEOTECHNICAL ENGINEER.

7 6" CONCRETE PAVEMENT
N.T.S.

1 CITY COMMENTS – 07-13-21
• ADDED CoP APPROVAL STAMP

APPROVED

BY________________________
CITY OF PUYALLUP
ENGINEERING SERVICES

DATE______________________

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.

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

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

No.	Date	By	Ckd.	Appr.	Revision
1	2/10/25	DC	DD	DD	REVISED PER SITE PLAN CHANGES

Title: GENERAL NOTES - ASBUILT
HOMEWOOD SUITES

For: HERITAGE INN & SUITES OF PUYALLUP, LLC
4500 36TH AVE. S, SUITE 200
FARGO, NE 58104

DON E. DAWES
STATE OF WASHINGTON
42009
REGISTERED PROFESSIONAL ENGINEER
[illegible]
8/29/25

Scale: Horizontal N/A Vertical N/A

Designed DC
Drawn DC
Checked DD
Approved DD
Date 8/29/25

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number 22507

Sheet C-7.1 of 8

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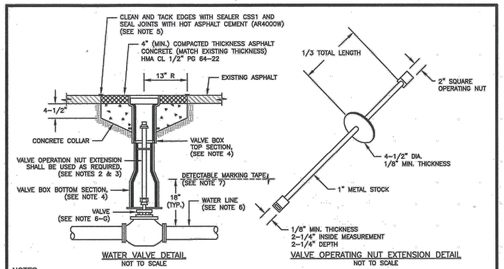


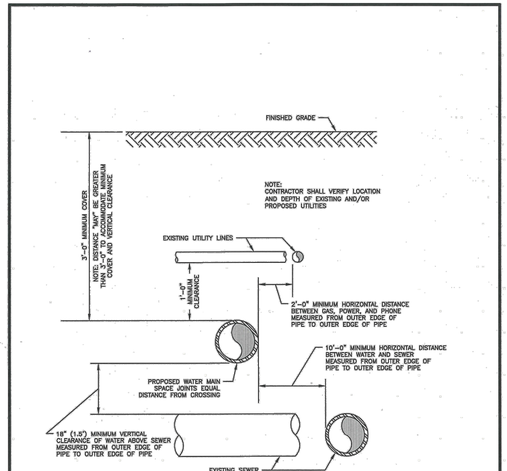
WATER VALVE DETAIL
NOT TO SCALE

VALVE OPERATING NUT EXTENSION DETAIL
NOT TO SCALE

NOTES:

1. WATER MAINS SHALL HAVE A MINIMUM COVER OF 36" FROM PAVED FINAL GRADE IN IMPROVED RIGHT-OF-WAY AND IMPROVED EASEMENTS, AND A MINIMUM OF 48" IN UNIMPROVED RIGHT-OF-WAY AND UNIMPROVED EASEMENTS.
2. VALVE OPERATING NUT EXTENSIONS ARE REQUIRED WHEN THE VALVE NUT IS MORE THAN FIVE (5) FEET BELOW FINISHED GRADE. EXTENSIONS ARE TO BE A MINIMUM OF TWO (2) FEET LONG, ONLY ONE EXTENSION TO BE USED PER VALVE. TOP OF EXTENSION SHALL BE 2 FEET 6 INCHES TO 3 FEET BELOW FINISHED GRADE.
3. ALL VALVE OPERATING NUT EXTENSIONS ARE TO BE MADE OF STEEL, SIZED AS NOTED, AND PAINTED WITH TWO COATS OF METAL PAINT.
4. VALVE BOXES SHALL BE TWO-PIECE, ADJUSTABLE, CAST IRON WITH EXTENSION PIECES (IF NECESSARY), AS MANUFACTURED BY THE VANRICH #940 SEATTLE OR APPROVED EQUAL. THE WORD "WATER" SHALL BE CAST IN RELIEF ON THE VALVE BOX COVER. VALVE BOX TOPS INSTALLED IN ARTERIAL ROADWAYS SHALL BE MANUFACTURED BY EAST JORDON (SJ) IRONWORKS MODEL 8550 WITH VALVE BOX COVER MODEL 8800 OR APPROVED EQUAL.
5. NEAT LINE CUTS SHALL BE SEALED WITH A HOT PAVING GRADE ASPHALT AND FACE OF CUT TACKED.
6. WATER MAINS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH DIVISION 7 OF THE WSDOT STANDARD SPECIFICATIONS SUPPLEMENTED WITH THE FOLLOWING:
   A. DUCTILE IRON PIPE SHALL CONFORM TO AWWA C 151, THICKNESS CLASS 52, AND THE EXTERIOR SHALL BE COATED WITH COAL TAR VARNISH. PIPE AND FITTINGS SHALL BE MORTOR LINED AND SHALL CONFORM TO AWWA C 104. THE THICKNESS OF THE LINING SHALL BE NOT LESS THAN 1/16" THICK FOR 3" TO 12" PIPE, 3/32" THICK FOR 14" TO 24" PIPE, AND 1/8" THICK FOR 30" TO 54" PIPE. THE CEMENT LINING SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 150.
   B. JOINTS SHALL BE TYTON PUSH-ON JOINTS, OR APPROVED EQUAL, OR MECHANICAL JOINT TYPE PER AWWA C 111 EXCEPT WHERE FLANGED JOINTS ARE REQUIRED TO CONNECT TO VALVES OR OTHER EQUIPMENT.
   C. BOLTS AND NUTS FOR BURIED FLANGES LOCATED OUTDOORS, ABOVE GROUND, OR IN OPEN VAULTS IN STRUCTURES SHALL BE TYPE 316 STAINLESS STEEL CONFORMING TO ASTM A 193, GRADE B8M FOR BOLTS, AND ASTM A 194, GRADE 8M FOR NUTS. BOLTS AND NUTS LARGER THAN ONE AND ONE-QUARTER (1-1/4) INCHES SHALL BE STEEL, ASTM A 307, GRADE B, WITH CADMIUM PLATING, ASTM A 165, TYPE NS.
   D. BOLTS USED IN FLANGE INSTALLATION SETS SHALL CONFORM TO ASTM B 193, GRADE B7. NUTS SHALL COMPLY WITH ASTM A 194, GRADE 2H.
   E. PROVIDE A WASHER FOR EACH NUT, WHERE NEEDED. WASHERS SHALL BE OF THE SAME MATERIAL AS THE NUTS.
   F. ALL FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF AWWA C 110 AND AWWA C 111.
   G. RESILIENT SEATED WEDGE GATE VALVES SHALL BE USED FOR TEN (10) INCH MAINS AND SMALLER. BUTTERFLY VALVES SHALL BE USED FOR MAINS GREATER THAN TEN (10) INCHES.
      1) RESILIENT SEATED WEDGE GATE VALVE: GATE VALVES SHALL CONFORM TO THE LATEST AWWA SPECIFICATIONS FOR COLD WATER, DOUBLE-DISK GATE VALVES, 200 PSI WORKING PRESSURE. THEY SHALL BE IRON-BODIED, BRONZE MOUNTED, NON-RISING STEM, WITH TWO (2) INCH SQUARE NUT. COUNTER-CLOCKWISE OPENING, MECHANICAL JOINT AND / OR FLANGED ENDS (6" VALVES ON FIRE HYDRANT LINES WHICH SHALL BE MECHANICAL JOINTS BY FLANGED). VALVE STEMS SHALL BE PROVIDED WITH O-RING SEALS AND SHALL BE AS MANUFACTURED BY THE MUELLER COMPANY OR APPROVED EQUAL.
      2) BUTTERFLY VALVES: BUTTERFLY VALVES CONFORMING WITH AWWA C 504, CLASS 150 AND SHALL HAVE STANDARD AWWA TWO (2) INCH SQUARE NUT.
7. DETECTABLE MARKING TAPE SHALL BE INSTALLED 18" ABOVE PIPE, BE BLUE IN COLOR, AND READ "CAUTION WATER LINE BELOW" MEETING WSDOT SPEC. 9-15.18.

CITY OF PUYALLUP OFFICE of THE CITY ENGINEER | APPROVED FOR PUBLICATION DATE SEALED 2/5/2019 | WATER VALVES AND MAINS | CITY STANDARD 03.01.01 | (NOT TO SCALE)



SEE CITY STANDARD 03.01.03-2 FOR ADDITIONAL NOTES FOR THIS DETAIL

CITY OF PUYALLUP OFFICE of THE CITY ENGINEER | APPROVED FOR PUBLICATION DATE SEALED 2/5/2019 | WATER MAIN CROSSING OTHER UTILITIES | CITY STANDARD 03.01.03-1 | (NOT TO SCALE)

NOTES FOR WATER MAIN CROSSING OTHER UTILITIES
CITY STANDARD 03.01.03-1

WHEN LOCAL CONDITIONS PREVENT THE SEPARATIONS DESCRIBED ON CITY STANDARD 03.01.03-1, A SEWER MAY BE LAID CLOSER THAN 10-FEET HORIZONTALLY OR 18-INCHES VERTICALLY TO A WATER LINE, PROVIDED THE GUIDELINES BELOW ARE FOLLOWED:

UNUSUAL CONDITIONS (PARALLEL SYSTEMS)

1. SEWER LINE IS LAID IN A SEPARATE TRENCH FROM THE WATER LINE.
2. WHEN 18-INCHES VERTICAL SEPARATION CANNOT BE OBTAINED, THE SEWER SHALL BE CONSTRUCTED OF MATERIALS AND JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION AND SHALL BE PRESSURE TESTED TO ENSURE WATER TIGHTNESS PRIOR TO BACKFILLING.
3. THE WATER LINE SHALL BE PLACED ON A BENCH OF UNDISTURBED EARTH WITH THE BOTTOM OF THE WATER PIPE AT LEAST 18-INCHES ABOVE THE CROWN OF THE SEWER, AND SHALL HAVE AT LEAST 5-FEET OF HORIZONTAL SEPARATION AT ALL TIMES. THE CITY RESERVES THE RIGHT TO REQUIRE SUPPLEMENTAL MITIGATION EFFORTS, SUCH AS IMPERMEABLE BARRIERS OR OTHER MEANS, FOR ADDITIONAL PROTECTION.
4. THE SEWER SHALL NOT BE INSTALLED IN THE SAME DITCH AS A POTABLE WATER LINE WITHOUT PRIOR WRITTEN APPROVAL BY THE CITY OF PUYALLUP.

UNUSUAL CONDITIONS (PERPENDICULAR SYSTEMS)

CONDITION A – GRAVITY SEWERS PASSING UNDER WATER LINES (ALL OF THE FOLLOWING APPLY)

1. ONE FULL SEGMENT (NOT LESS THAN 18-FEET LONG) OF DUCTILE IRON CLASS 52 WATER PIPE, AND THE LONGEST STANDARD SEWER PIPE LENGTH AVAILABLE FROM THE MANUFACTURER SHALL BE USED WITH THE PIPES CENTERED TO MAXIMIZE JOINT SEPARATION.
2. STANDARD GRAVITY-SEWER MATERIAL ENCASED IN CONCRETE OR IN A ONE-QUARTER-INCH THICK CONTINUOUS STEEL, DUCTILE IRON, OR PRESSURE RATED PVC PIPE WITH A DIMENSION RATIO (THE RATIO OF THE OUTSIDE DIAMETER TO THE PIPE WALL THICKNESS) OF 18 OR LESS, WITH ALL VOIDS PRESSURE-GROUTED WITH SAND-CEMENT GROUT OR BENTONITE.

   EXAMPLE OF DIMENSION RATIO (DR): OUTSIDE PIPE DIAMETER DIVIDED BY THE WALL THICKNESS OR OD/T.
   FOR 8-INCH SCH. 80 PVC PIPE (T=0.5 INCHES), THE DR IS 8.625/0.5=17.25

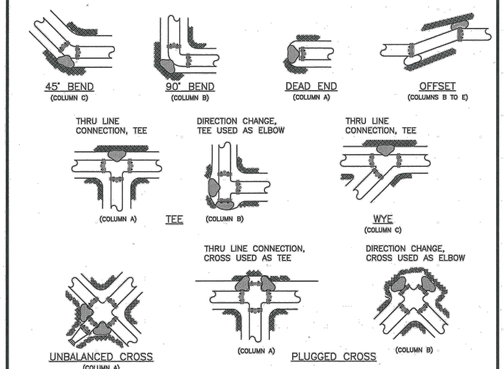
CONDITION B – GRAVITY SEWER PASSING OVER WATER LINES

WATER LINES SHALL BE PROTECTED BY PROVIDING:

1. A VERTICAL SEPARATION OF AT LEAST 18-INCHES BETWEEN THE INVERT OF THE SEWER AND THE CROWN OF THE WATER LINE.
2. ADEQUATE STRUCTURAL SUPPORT FOR THE SEWER LINE TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING ON AND BREAKING OF THE WATER LINE.
3. THE SEWER PIPE SHALL BE THE LONGEST STANDARD SEWER PIPE LENGTH AVAILABLE FROM THE MANUFACTURER WITH THE WATER AND SEWER PIPES CENTERED TO MAXIMIZE JOINT SEPARATION.
4. THE SEWER LINE CASING EQUIVALENT TO THAT SPECIFIED IN A(2) ABOVE.

CITY OF PUYALLUP OFFICE of THE CITY ENGINEER | APPROVED FOR PUBLICATION DATE SEALED 2/5/2019 | WATER MAIN CROSSING OTHER UTILITIES (NOTES) | CITY STANDARD 03.01.03-2 | (NOT TO SCALE)

NOTE: DRAWINGS DEPICT BLOCK LOCATION, NOT SIZE.
FOR SIZE SEE NOTES 3, 4, 5, AND CITY STD. 03.02.01-3



NOTES:

1. THE FOLLOWING PRECAUTIONS MUST BE OBSERVED WHEN CONSTRUCTING THRUST BLOCKS:
   A. BLOCKS MUST BE POURED OR PLACED AGAINST UNDISTURBED SOIL.
   B. THE PIPE FITTING(S) AND BOLTS MUST BE ACCESSIBLE. WRAP IN PLASTIC BEFORE POURING CONCRETE BLOCKING.
   C. CONCRETE SHOULD BE CURED FOR AT LEAST 5 DAYS AND SHOULD HAVE A MINIMUM COMPRESSION STRENGTH OF 3,000 PSI AT 28 DAYS.
   D. RESTRAINED JOINTS SHALL BE INSTALLED, IN ADDITION TO CONCRETE THRUST BLOCKING.
   E. BLOCKS MUST BE POSITIONED TO COUNTERACT THE DIRECTION OF THE RESULTANT THRUST FORCE.
2. ALL PIPE SHALL BE PROPERLY BEDDED, SEE CITY OF PUYALLUP STANDARD BEDDING DETAIL NO. 05.01.01.
3. CONTRACTOR TO PROVIDE BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE.
4. DIVIDE THRUST BY SAFE BEARING LOAD TO DETERMINE REQUIRED AREA (IN SQUARE FEET) OF CONCRETE TO DISTRIBUTE LOAD.
5. BEARING SURFACE AREAS TO BE ADJUSTED BY THE ENGINEER FOR OTHER PRESSURE AND/OR SOIL CONDITIONS.

CITY OF PUYALLUP OFFICE of THE CITY ENGINEER | APPROVED FOR PUBLICATION DATE SEALED 2/5/2019 | HORIZONTAL THRUST BLOCKING | CITY STANDARD 03.02.01-1 | (NOT TO SCALE)

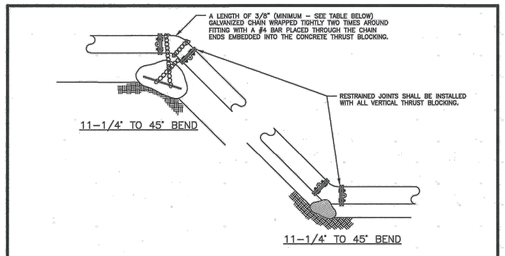


TABLE 1: CONCRETE BLOCKING FOR VERTICAL BENDS

PIPE DIAMETER (INCHES)	TEST PRESSURE (PSI)	BEND ANGLE (DEG)	CONCRETE VOLUME (FT³)	CUBE SIZE (FEET)	CHAIN SIZE (INCHES)	CHAIN EMBEDMENT (INCHES)
4"	200	11.25°	6	1.8	3/8"	17"
		22.5°	12	2.3		
		45°	22	2.8		
6"	200	11.25°	14	2.4	3/8"	17"
		22.5°	27	3.0		
		45°	50	3.7		
8"	200	11.25°	25	2.9	3/8"	17"
		22.5°	48	3.6		
		45°	89	4.5		
10"	200	11.25°	38	3.4	3/8"	17"
		22.5°	75	4.2		
		45°	139	5.2		
12"	200	11.25°	55	3.8	3/8"	17"
		22.5°	108	4.8		
		45°	200	5.8	1/2"	24"
14"	200	11.25°	75	4.2	3/8"	17"
		22.5°	147	5.3	1/2"	20"
		45°	272	6.5	1/2"	27"
16"	200	11.25°	98	4.6	3/8"	17"
		22.5°	192	5.8	1/2"	24"
		45°	355	7.1	3/4"	30"

ALL NOTES ON CITY STANDARD 03.02.01-1 SHALL APPLY TO THIS DETAIL.
SEE CITY STANDARD 03.02.01-3 FOR ADDITIONAL INFORMATION.

CITY OF PUYALLUP OFFICE of THE CITY ENGINEER | APPROVED FOR PUBLICATION DATE SEALED 2/5/2019 | VERTICAL THRUST BLOCKING | CITY STANDARD 03.02.01-2 | (NOT TO SCALE)

TABLE 2: THRUST AT FITTINGS AT 200 PSI

SIZE	TEST PRESSURE (PSI)	THRUST FITTINGS AT 200 PSI				
		A	B	C	D	E
		TEE AND DEAD ENDS	90° BEND	45° BEND	22.5° BEND	11.25° BEND
4"	200	3,140	4,440	2,405	1,225	615
6"	200	7,070	9,995	5,410	2,760	1,385
8"	200	12,565	17,770	9,620	4,905	2,465
10"	200	19,635	27,770	15,030	7,660	3,850
12"	200	28,275	39,985	21,640	11,030	5,545
14"	200	38,485	54,425	29,455	15,015	7,545
16"	200	50,265	71,085	38,470	19,615	9,855

TABLE 3: BEARING VALUE OF SOIL

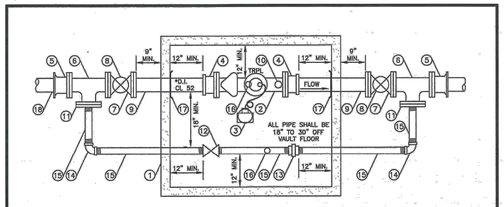
SOIL TYPE	SAFE BEARING LOAD LBS/SF
MUCK, PEAT, ETC.	0
SOFT CLAY/ALLUVIAL SOIL	1,000
SAND	2,000
SAND AND GRAVEL	3,000
SAND AND GRAVEL CEMENTED WITH CLAY	4,000
HARD SHALE	10,000

SEE CITY STANDARDS 03.02.01-1 AND 03.02.01-2 FOR ADDITIONAL INFORMATION.

NOTES:

1. TO DETERMINE THRUST AT PRESSURES OTHER THAN PSI SHOWN, MULTIPLY THE THRUST OBTAINED IN TABLE 2 BY THE RATIO OF THE PRESSURE TO 200 PSI.
   EXAMPLE:
   THE THRUST ON A 12 INCH, 90° BEND AT 300 PSI.
   39,985 X 300 PSI / 200 PSI = 59,978 LBS
2. TO DETERMINE THE BEARING AREA OF THE THRUST BLOCK IN SQUARE FEET (SF):
   SEE TABLE 3, BEARING VALUE OF SOIL
   EXAMPLE:
   FOR SAND AND GRAVEL BEARING VALUE FROM TABLE 3 IS 3,000 LBS/SF
   59,978 LBS ÷ 3000 LB/SF = 20 SF OF AREA
3. CONTRACTOR TO PROVIDE BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE
4. AREAS SHALL BE ADJUSTED FOR OTHER PRESSURE CONDITIONS.
5. NO WATER MAIN SHALL DEAD END AGAINST A MAIN LINE VALVE. DEAD END WATER MAINS SHALL BE BLOCKED AGAINST A RESTRAINED MECHANICAL JOINT (M.J.) PLUG OR CAP.

CITY OF PUYALLUP OFFICE of THE CITY ENGINEER | APPROVED FOR PUBLICATION DATE SEALED 2/5/2019 | THRUST BLOCKING TABLE | CITY STANDARD 03.02.01-3 | (NOT TO SCALE)



CONSTRUCTION NOTES

1. VAULT WITH STANDARD SUMP PIT THAT DRAINS TO DAYLIGHT IF POSSIBLE. UTILITY VAULT OR APPROVED EQUAL, SIZED TO MAINTAIN CLEARANCES. SEE CITY STANDARD 03.11.01. CUT 2" HOLE IN LID FOR METER TRANSMITTER.
2. * SENSUS FLANGED C2-DARI METER WITH BUILT-IN STRAINER WITH TRPL READING IN 1 CUBIC FEET. USE 3/4" DIAMETER 316 GRADE STAINLESS STEEL BOLTS AND TEFLON NUTS ON METER FLANGE CONNECTIONS.
3. FLEX NET TRANSMITTER 520M SINGLE PORT COUPLE WITH LEAK DETECTION. MOUNTED ON METER VAULT LID.
4. FLANGED COUPLING ADAPTOR.
5. * FLANGE x MECHANICAL JOINT ADAPTOR.
6. * FLANGED TEE.
7. * RESILIENT SEATED WEDGE GATE VALVE (FLGxFLG) WITH 2" SQUARE OPERATING NUT.
8. INSTALL TWO-PIECE, ADJUSTABLE, CAST IRON VALVE BOX AS SPECIFIED IN CITY STANDARD 03.01.01.
9. * FLANGE x PLAIN END SPOOL LENGTH AS REQUIRED.
10. REMOVE METER TEST PLUG AND INSTALL 2" x 4" BRASS NIPPLE, 2" BALL VALVE FORD B11-777W OR APPROVED EQUAL, 2-1/2" MALE (NST) x 2" MALE IPS THREADED BRASS FIRE HOSE ADAPTOR, 2-1/2" (NST) BRASS NOZZLE CAP.
11. * BLIND FLANGE WITH 2" THREADED OUTLET.
12. 2" LOCKING BALL VALVE FORD B11-777W OR APPROVED EQUAL.
13. 2" GALVANIZED UNION.
14. 2" GALVANIZED ELL.
15. 2" THREADED GALVANIZED PIPE – CUT TO LENGTH AS REQUIRED.
16. 2" ADJUSTABLE GALVANIZED PIPE SUPPORT.
17. MEGA LUG RING SECURED AGAINST VAULT WALL. MASTIC AND MORTAR SEAL WHERE PIPE PASSES THROUGH VAULT WALL.
18. AN ADDITIONAL * GATE VALVE IS REQUIRED AT THE WATER MAIN BRANCH CONNECTION.
    NOTE: * = 3" ,4" ,OR 6" DEPENDING ON SERVICE LINE SIZE.

GENERAL NOTES

1. ALL PIPE, VALVES, FITTINGS AND OTHER MATERIAL USED SHALL CONFORM TO AWWA STANDARDS (LATEST EDITION).
2. ALL CONSTRUCTION SHALL CONFORM TO WSDOT/APWA STANDARDS SPECIFICATIONS, CURRENT EDITION, AND CITY OF PUYALLUP STANDARDS.

CITY OF PUYALLUP OFFICE of THE CITY ENGINEER | APPROVED FOR PUBLICATION DATE SEALED 2/5/2019 | 3"-4"-6" WATER SERVICE | CITY STANDARD 03.03.03 | (NOT TO SCALE)

APPROVED

BY_____
CITY OF PUYALLUP
ENGINEERING SERVICES

DATE_____

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.

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

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

⚠ CITY COMMENTS – 07-13-21
• ADDED CoP APPROVAL STAMP

No.	Date	By	Ckd.	Appr.	Revision
1	2/10/25	DC	DD	DD	REVISED PER SITE PLAN CHANGES

Title: UTILITY DETAILS - ASBUILT

HOMEWOOD SUITES

For: HERITAGE INN & SUITES OF PUYALLUP, LLC
4500 36TH AVE. S, SUITE 200
FARGO, NE 58104

DON E. DAWES — STATE OF WASHINGTON — 42009 — REGISTERED PROFESSIONAL ENGINEER
8/29/25

Scale: Horizontal N/A | Vertical N/A

Designed DC | Drawn DC | Checked DD | Approved DD | Date 8/29/25

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number 22507 | Sheet C-8 of 8

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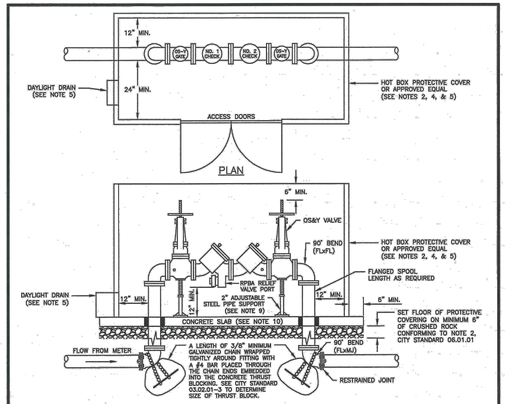
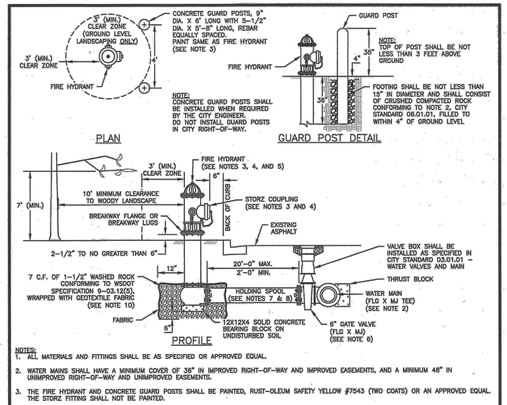


NOTES:

1. BACKFLOW ASSEMBLY MUST BE SELECTED FROM WASHINGTON STATE DEPARTMENT OF HEALTH'S LIST OF BACKFLOW PREVENTION ASSEMBLIES APPROVED FOR INSTALLATION IN WASHINGTON STATE, LASTEST EDITION.
2. THE RPBA SHALL BE INSTALLED WITH ADEQUATE SPACE TO FACILITATE MAINTENANCE AND TESTING. IT SHALL BE TESTED AFTER INSTALLATION, BY A WASHINGTON STATE CERTIFIED BACK–FLOW ASSEMBLY TESTER, TO INSURE ITS SATISFACTORY OPERATION BEFORE OCCUPANCY, AND ANNUALLY THEREAFTER. SEND TEST RESULTS TO CITY OF PUYALLUP, WATER QUALITY OPERATIONS, 1100 39TH AVE SE, PUYALLUP, WA 98374.
3. THE RPBA MUST BE PURCHASED AS A UNIT. NO MODIFICATIONS TO THE ASSEMBLY ARE ALLOWED.
4. THE RPBA SHALL NOT BE INSTALLED IN A PIT BELOW GROUND LEVEL.
5. THE PROTECTIVE COVERING FOR THE RPBA, WHICH PROTECTS THE ASSEMBLY FROM FREEZING, MUST INCLUDE A DAYLIGHT DRAIN. THE DRAIN MUST BE INSTALLED ABOVE GROUND OR ABOVE THE MAXIMUM FLOOD LEVEL, WHICHEVER IS HIGHER. THE DRAIN MUST BE A MINIMUM OF TWICE THE SIZE OF THE RPBA, TO BE ABLE TO HANDLE THE VOLUME OF WATER THAT POTENTIALLY COULD BE DISCHARGED FROM THE RELIEF VALVE PORT.
6. THE RPBA SHALL BE SIZED EQUAL OR COMPARABLE TO THE METER SIZE.
7. THE RPBA SHALL BE LOCATED IMMEDIATELY DOWN STREAM OF THE METER, AND CANNOT BE INSTALLED INSIDE OF A BUILDING, DUE TO THE SEVERE HAZARD FROM THE WATER THAT POTENTIALLY COULD BE DISCHARGED FROM THE RELIEF VALVE PORT DURING A FOULED CHECK VALVE SITUATION.
8. ALL ELECTRICAL SHALL BE INSPECTED BY A WASHINGTON STATE ELECTRICAL INSPECTOR.
9. PIPE SUPPORTS SHALL BE RUST–PROTECTED WITH ALUMINUM PAINT.
10. POUR A 4 INCH CONCRETE SLAB FOR RPBA PROTECTIVE COVER. PROVIDE A 2 INCH ANNULAR SPACE BETWEEN THE PIPE AND FLOOR. EXTEND THE CONCRETE SLAB 6 INCHES BEYOND THE PROTECTIVE COVERING TO PROVIDE ADEQUATE ANCHORING.
11. PROVIDE FREEZE PROTECTION AS DIRECTED BY OWNER.

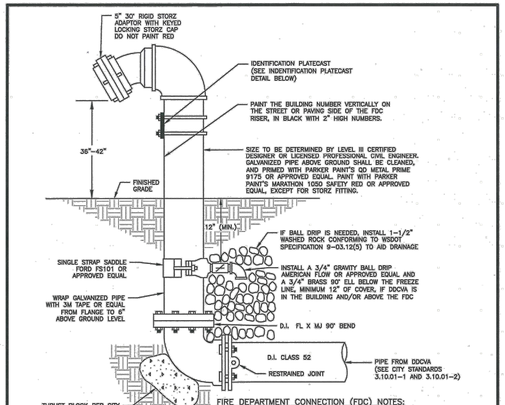
CITY OF PUYALLUP OFFICE of THE CITY ENGINEER | APPROVED FOR PUBLICATION 2/5/2019 | 3" AND ABOVE REDUCED PRESSURE BACKFLOW ASSEMBLY INSTALLATION | CITY STANDARD 03.04.03 | (NOT TO SCALE)



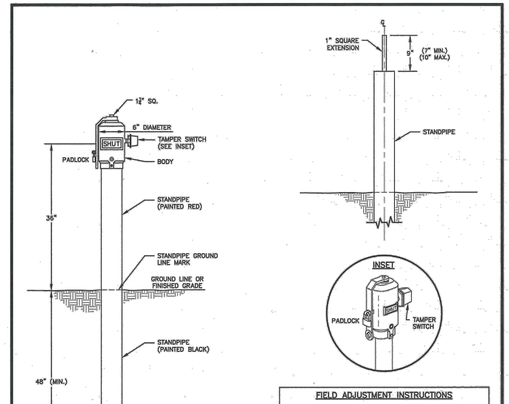
NOTES:

1. ALL MATERIALS AND FITTINGS SHALL BE AS SPECIFIED OR APPROVED EQUAL.
2. WATER MAINS SHALL HAVE A MINIMUM COVER OF 36" IN IMPROVED RIGHT–OF–WAY AND IMPROVED EASEMENTS, AND A MINIMUM 48" IN UNIMPROVED RIGHT–OF–WAY AND UNIMPROVED EASEMENTS.
3. THE FIRE HYDRANT AND CONCRETE GUARD POSTS SHALL BE PAINTED, RUST–OLEUM SAFETY YELLOW #7543 (TWO COATS) OR AN APPROVED EQUAL. THE STORZ FITTING SHALL NOT BE PAINTED.
4. FIRE HYDRANTS SHALL HAVE TWO 2–1/2" HOSE PORTS (NATIONAL STANDARD THREAD) WITH CAPS AND CHAINS AND ONE 4" PUMPER PORT (#8 TACOMA STEAMER PORT THREAD) WITH A 5" "STORZ" COUPLING AND BLIND CAP INSTALLED ON THE STEAMER PORT, (STEAMER PORT SHALL FACE THE STREET), 1–1/4" PENTAGONAL OPERATING NUT (COUNTER–CLOCKWISE OPENING), O–RING TYPE STUFFING BOX, AUTOMATIC BARREL DRAINS AND 5–1/4" MAIN VALVE OPENING. HYDRANTS SHALL BE DESIGNED IN A MANNER THAT WILL PREVENT BARREL BREAKAGE WHEN STRUCK BY A VEHICLE. HYDRANTS SHALL CONFORM TO THE LATEST REVISION OF AWWA SPECIFICATIONS NO. C 502–73 FOR FIRE HYDRANTS FOR ORDINARY WATER SERVICE. FIRE HYDRANTS SHALL INCLUDE THE ENTIRE ASSEMBLY COMPLETE, INCLUDING HYDRANT, GATE VALVE AND BOX, CONNECTING PIPING, FITTINGS, AND ACCESSORIES.
5. FIRE HYDRANTS SHALL BE AVK, CLOW MEDALLION, M & H 929, MUELLER CENTURION, OR WATEROUS.
6. GATE VALVES SHALL CONFORM TO THE LATEST AWWA SPECIFICATIONS FOR COLD WATER, RESILIENT SEATED WEDGE GATE VALVES, 200 PSI WORKING PRESSURE. THEY SHALL BE IRON–BODIED BRONZE–MOUNTED, NON–RISING STEM, COUNTER–CLOCKWISE OPENING, MECHANICAL JOINT BY FLANGED. VALVE STEMS SHALL BE PROVIDED WITH O–RING SEALS AND SHALL BE AS MANUFACTURED BY THE MUELLER COMPANY OR APPROVED EQUAL.
7. THE HOLDING SPOOL SHALL BE A MECHANICAL–JOINT (MJ) HOLDING SPOOL, WITH THE USE OF MEGA–LUG CONNECTORS OR APPROVED EQUAL WITH CLASS 52 DUCTILE IRON PIPE.
8. IF DISTANCE BETWEEN WATER MAIN AND FIRE HYDRANT IS GREATER THAN 17 FEET, A RESTRAINED JOINT IS REQUIRED ON ADDITIONAL JOINT. MAXIMUM HYDRANT RUN ALLOWED IS 20 FEET.
9. FIRE HYDRANTS SHALL BE LOCATED A MINIMUM OF 50 FEET FROM A BUILDING OR STRUCTURE.
10. THE CONTRACTOR SHALL PLACE A 6 OZ. GEOTEXTILE FABRIC AROUND THE WASHED ROCK AREA, ENDS TO OVERLAP.
11. A FLUORESCENT ORANGE BAG MUST COVER AND BE SECURED TO THE FIRE HYDRANT UNTIL APPROVED FOR USE BY CITY ENGINEER.
12. A MINIMUM THREE FOOT (3') RADIUS UNOBSTRUCTED CLEAR ZONE (WORK AREA) SHALL BE PROVIDED AROUND ALL FIRE HYDRANTS. ADDITIONALLY, NO WOODY LANDSCAPE SHALL BE PLANTED WITHIN TEN FEET (10') OF ANY FIRE HYDRANT, OVERREACHING BRANCHES OF TREES ADJACENT TO HYDRANTS SHALL HAVE A MAINTAINED VERTICAL CLEARANCE OF SEVEN (7') FEET ABOVE FINISHED GRADE OF THE FIRE HYDRANT.

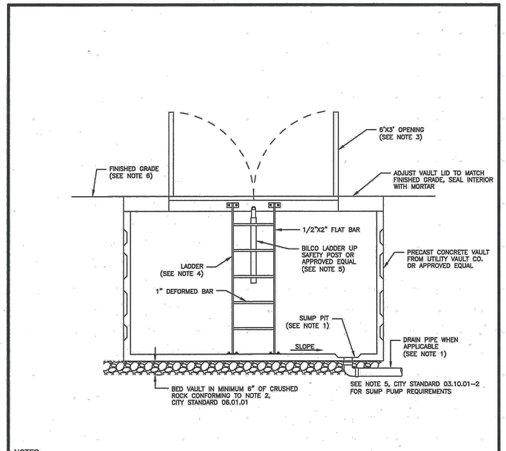
CITY OF PUYALLUP OFFICE of THE CITY ENGINEER | APPROVED FOR PUBLICATION 2/5/2019 | FIRE HYDRANT ASSEMBLY | CITY STANDARD 03.05.01 | (NOT TO SCALE)



CITY OF PUYALLUP OFFICE of THE CITY ENGINEER | APPROVED FOR PUBLICATION 2/5/2019 | FIRE DEPARTMENT CONNECTION (FDC) | CITY STANDARD 03.10.02 | (NOT TO SCALE)



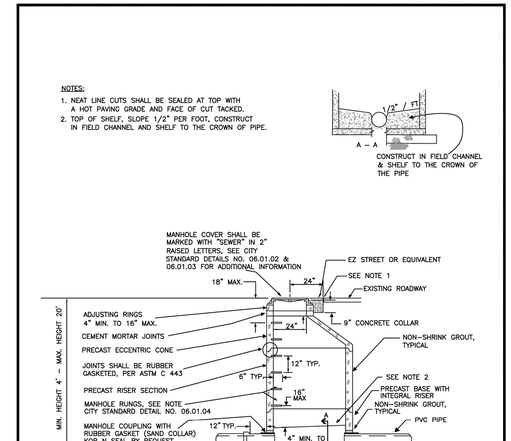
CITY OF PUYALLUP OFFICE of THE CITY ENGINEER | APPROVED FOR PUBLICATION 2/5/2019 | POST INDICATOR VALVE | CITY STANDARD 03.10.03 | (NOT TO SCALE)



NOTES:

1. IF POSSIBLE, DRAIN VAULT TO DAYLIGHT OR APPROVED STORM DRAINAGE STRUCTURE (2% MINIMUM SLOPE). VAULT DRAIN SHALL BE 4" SCH 80 PVC PIPE WITH 1/4" GALVANIZED MESH SCREEN OR APPROVED EQUAL AFFIXED TO PIPE INLET AND OUTFALL. MASTIC AND MORTAR SEAL WHERE DRAIN PIPE PASSES THROUGH SUMP PIT AT FLOOR OF VAULT. WHEN VAULT DRAIN IS INFEASIBLE, A SUMP PUMP SHALL BE INSTALLED MEETING THE REQUIREMENTS OF NOTE 5, CITY STANDARD 03.10.01–2
2. THE VAULT SHALL BE A PRECAST CONCRETE VAULT, SIZED TO MEET THE CLEARANCE REQUIREMENTS SHOWN ON DETAILS 03.03.03, 03.09.01, OR 03.10.01–1.
3. REMOVABLE DOORS SHALL BE A MINIMUM OF 6'–0" X 3'–0" ALUMINUM DIAMOND PLATE HINGED LOCKING DOORS, WITH HINGES LOCATED AT EACH END OF OPENING, AND WITH COVERED RECESSED PADLOCK HASP. DOORS SHALL BE SPRING LOADED AND LOCK IN THE OPEN POSITION. DOOR AND FRAME SHALL BE RATED FOR HS–20 LOADING.
4. A GALVANIZED LADDER SHALL BE SET INSIDE THE VAULT FOR ACCESS. IT SHALL BE SECURED TO THE VAULT WITH 1/2 " DIA. BOLTS EPOXIED TO THE VAULT LID AND FLOOR.
5. A BILCO LADDER UP SAFETY POST MODEL NO. 2 (OR APPROVED EQUAL) SHALL BE ATTACHED TO AND CENTERED ON THE LADDER STEPS.
6. THE VAULT SHALL BE PLACED IN A UTILITY EASEMENT OUT OF VEHICLE AND PEDESTRIAN TRAFFIC.
7. CAST–IN–PLACE VAULTS SHALL BE PERMITTED BY THE CITY'S BUILDING DIVISION PRIOR TO CONSTRUCTION.

CITY OF PUYALLUP OFFICE of THE CITY ENGINEER | APPROVED FOR PUBLICATION 2/5/2019 | WATER VAULT DETAILS | CITY STANDARD 03.11.01 | (NOT TO SCALE)



CITY OF PUYALLUP DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS | SANITARY SEWER MANHOLE | CITY STANDARD 04.01.01

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
JIM ERWIN-SVOBODA	LINDA LIAN	COLLEEN HARRIS	LINDA LIAN	
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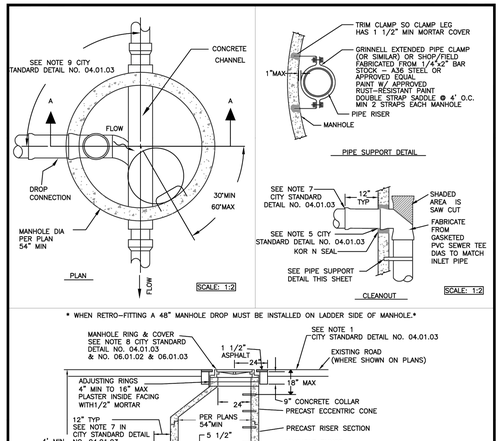

CITY OF PUYALLUP DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS | INSIDE DROP SANITARY SEWER MANHOLE | CITY STANDARD 04.01.02

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
JIM ERWIN-SVOBODA	LINDA LIAN	COLLEEN HARRIS	XXXX	
FILE NAME: F:\DWG\COMMON\STDS\CITY\2009\04_SEW.01.04.01.02	DATE APPROVED: 07/01/2009	DATE REVISED: XX/XX/XX	SCALE: VARIES	04.01.02

APPROVED

BY_____
CITY OF PUYALLUP
ENGINEERING SERVICES

DATE_____

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.

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

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

⚠ CITY COMMENTS – 07–13–21
- ADDED CoP APPROVAL STAMP

No.	Date	By	Chkd.	Appr.	Revision
2	2/10/25	DC	DD	DD	REVISED PER SITE PLAN CHANGES

Title: UTILITY DETAILS - ASBUILT

HOMEWOOD SUITES

For: HERITAGE INN & SUITES OF PUYALLUP, LLC
4500 36TH AVE. S, SUITE 200
FARGO, NE 58104

DON E. DAWES — STATE OF WASHINGTON — 42009 — REGISTERED PROFESSIONAL ENGINEER — 8/29/25

Scale: Horizontal N/A Vertical N/A

Designed DC Drawn DC Checked DD Approved DD Date 8/29/25

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number 22507 | Sheet C-8.1 8 of 8

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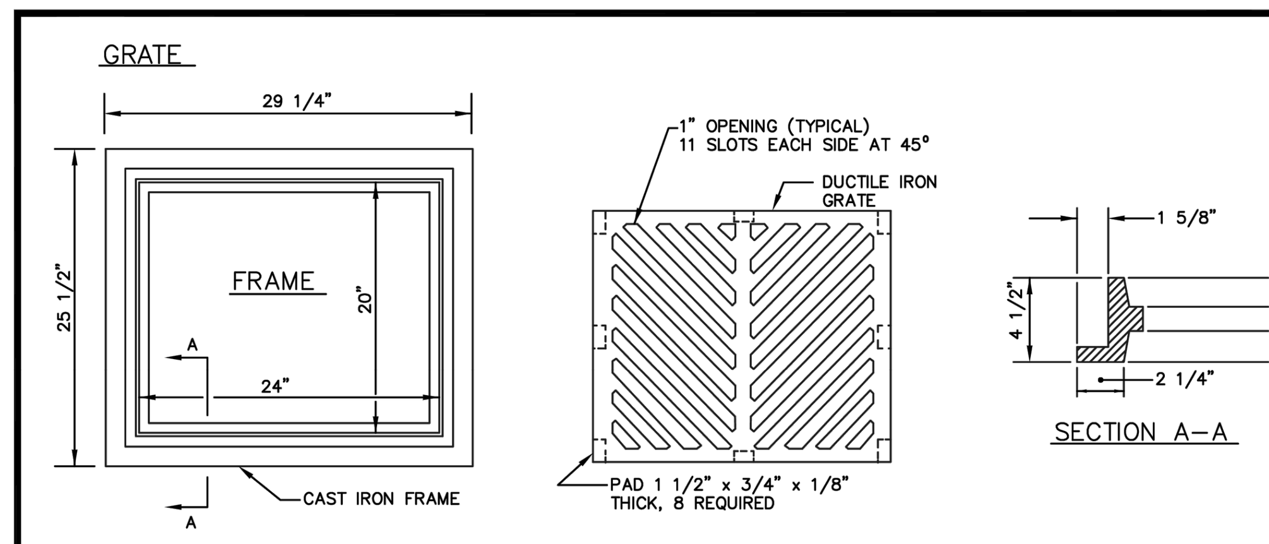
NOTES FOR: INSIDE DROP SANITARY SEWER MANHOLE

1. NEAT LINE CUTS SHALL BE SEALED AT TOP WITH A HOT PAVING GRADE ASPHALT AND FACE OF CUT TACKED. ASPHALT DEPTH TO MATCH EXISTING.
2. TOP OF SHELF, SLOPE 1/2" PER FOOT MINIMUM, CONSTRUCT IN FIELD CHANNEL AND SHELF TO THE CROWN OF PIPE.
3. MANHOLE RUNG SHALL CONFORM TO SECTION R, ASTM C 478 (AASHTO M-199) AND MEET ALL OSHA REQUIREMENTS. MANHOLE RUNGS SHALL BE PARALLEL OR APPROXIMATELY RADIAL AT THE OPTION OF THE MANUFACTURER, EXCEPT THAT ALL STEPS IN ANY MANHOLE SHALL BE SIMILAR. PENETRATION OF OUTER WALL BY A LEG IS PROHIBITED. SEE CITY STANDARD DETAIL NO. 06.01.04 & 06.01.05
4. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM. DROP INLET PIPE HOLE MAY BE FIIELD CONSTRUCTED.
5. KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAMETER PLUS MANHOLE WALL THICHNESS. MINIMUM DISTANCE BETWEEN HOLES IS 8".
6. PRECAST CONCRETE MANHOLE COMPONENTS SHALL CONFORM TO ASTM C 478.
7. FLEXIBLE JOINTS SHALL BE RUBBER GASKETED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. MORTARED, DRY-PACKED, OR CAST-IN-PLACE JOINTS WILL BE PERMITTED ONLY FOR CONNECTIONS TO OR THROUGH MANHOLES. A FLEXIBLE GASKETED JOINT SHALL BE INSTALLED WITHIN ONE (1) FOOT OF EACH CONNECTION TO MANHOLES. CONNECTIONS TO MANHOLE SHALL UTILIZE A KOR N SEAL CONNECTION MORTARED. CONNECTIONS TO THESE STRUCTURES WITH PVC PIPE SHALL UTILIZE A MANHOLE COUPLING AND RUBBER GASKET.
8. MANHOLE RING AND COVER: THE COVER SHALL BE MARKED WITH "SEWER" IN TWO (2) INCH RAISED LETTERS (SEE CITY STANDARD DETAILS NO. 06.01.02 AND 06.01.03 FOR ADDITIONAL INFORMATION).
9. THE MAXIMUM CHANGE IN FLOW DIRECTION IN MANHOLES SHALL BE 90 DEGREES. FOR ALL CHANGES IN FLOW DIRECTION GREATER THAN 45 DEGREES, A MINIMUM DROP OF 0.10 FEET BETWEEN INVERTS SHALL BE PROVIDED AND CHANNELIZATION PROVIDED.

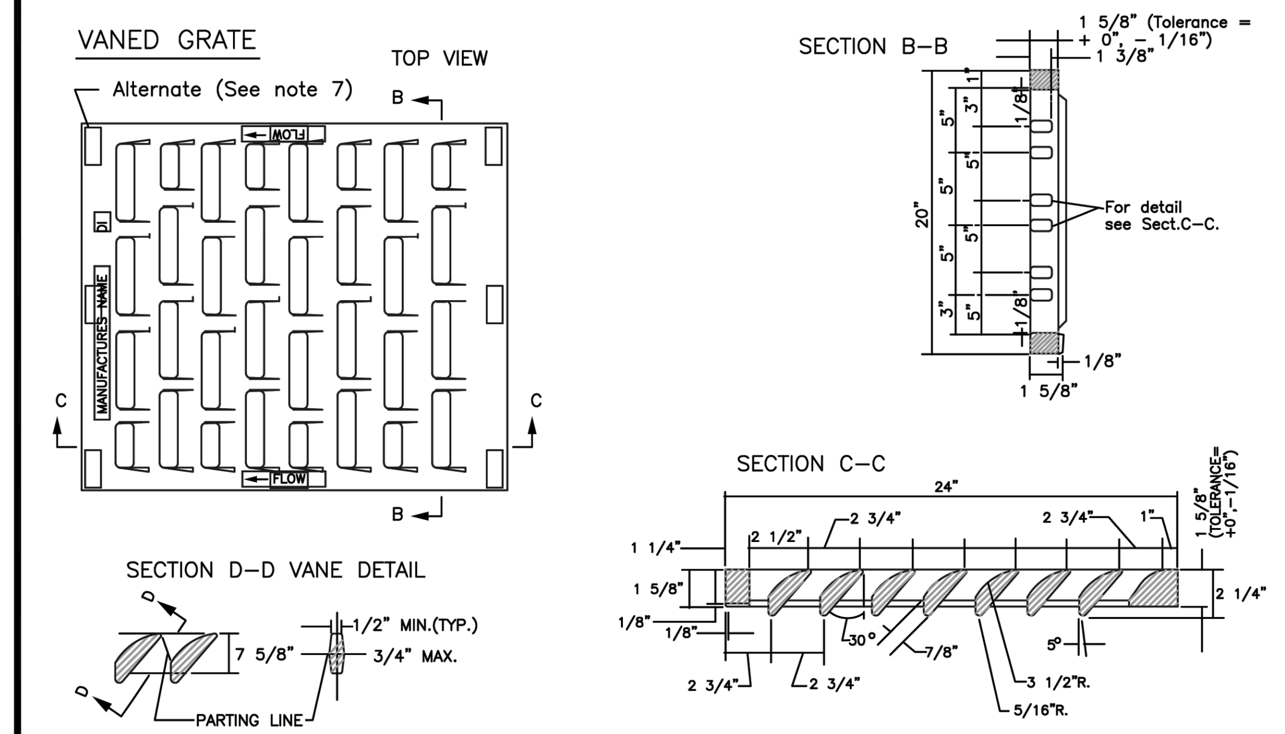
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

INSIDE DROP SANITARY SEWER MANHOLE (NOTES)

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
JIM ERWIN-SVOBODA	LINDA LIAN	COLLEEN HARRIS	XXXX	04.01.03
FILE NAME F:\DWG\COMMON\STDS\CITY\2009\04_SS\04.01\04.01.03		DATE APPROVED 07/01/2009	DATE REVISED XX/XX/XX	SCALE 1:1



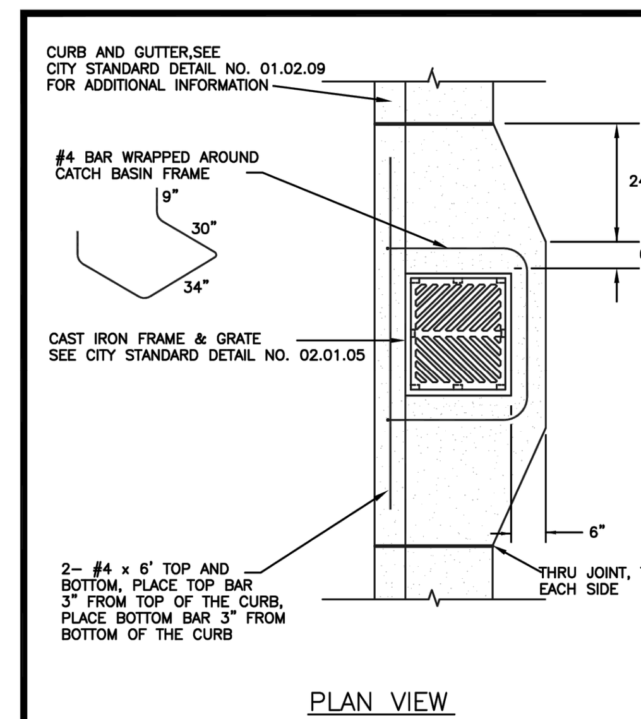
NOTES:
1. MATERIAL SHALL CONFORM TO SECTION 9–05.15 "METAL CASTINGS" OF THE "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION" PUBLISHED BY THE STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER.
2. THE NAME OF THE MANUFACTURE AND DIRECTION OF FLOW SHALL BE EMBOSSED ON THE TOP SURFACE OF EACH GRATE. LETTERING TO BE RECESSED 1/16".
3. THE MATERIAL USED FOR THE GRATE SHALL BE DESIGNATED BY EMBASSING EITHER DI (FOR DUCTILE IRON) OR CS (FOR CAST STEEL) NEAR THE NAME OF THE MANUFACTURER.
4. DIMENSIONS SHALL HAVE A +/– 1/16" TOLERANCE, EXCEPT AS NOTED.
5. EDGES SHALL HAVE 1/8" RADIUS.
6. WELDING IS NOT PERMITTED.
7. AS AN ALTERNATE, 8 PADS 1 1/2" X 3/4" X 1/8", INTEGRALLY CAST WITH THE GRATE, MAY BE USED.



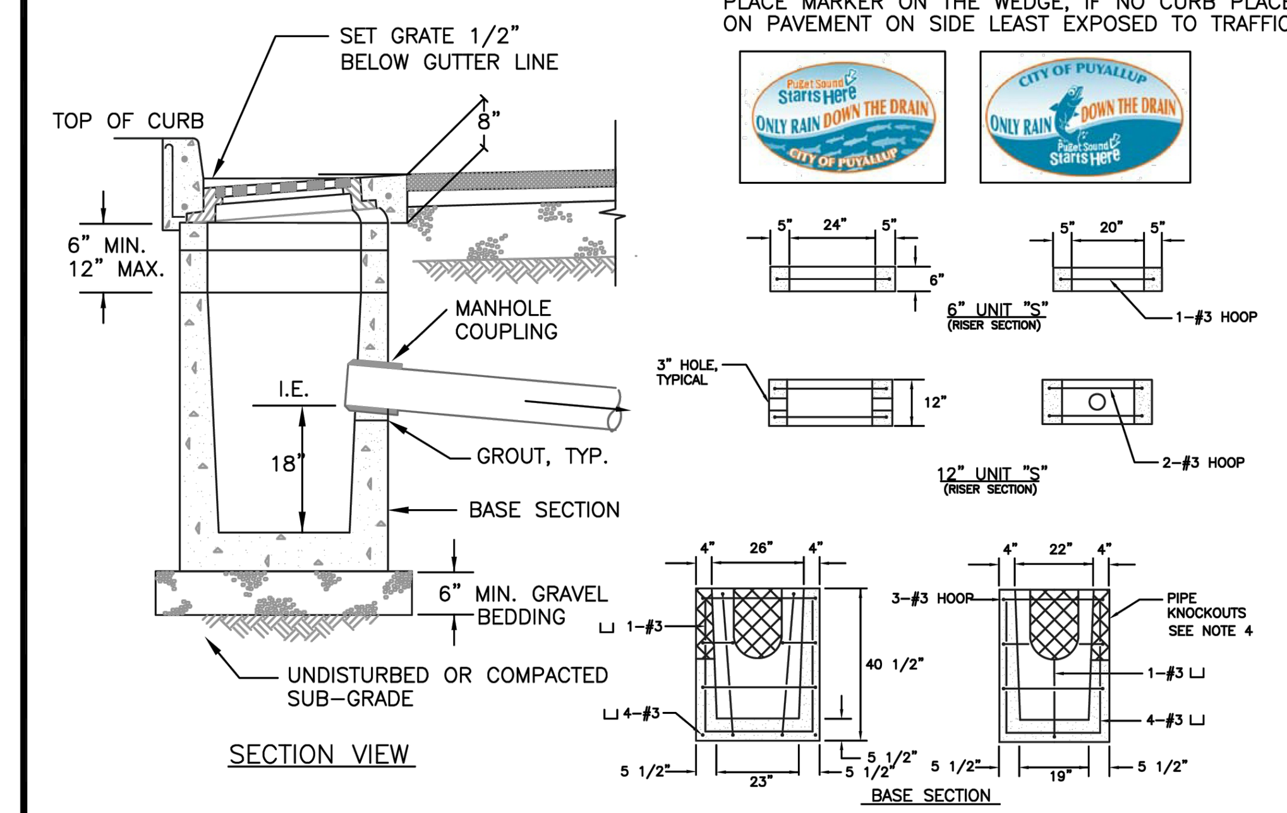
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

CATCH BASIN FRAME AND GRATE/VANED GRATE

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
LINDA LANSING	LINDA LIAN	COLLEEN HARRIS	LINDA LIAN	02.01.05
FILE NAME F:\DWG\COMMON\STDS\CITY\2009\02_SD\02.01.05		DATE APPROVED 07/01/2009	DATE REVISED 03/21/11	SCALE NTS



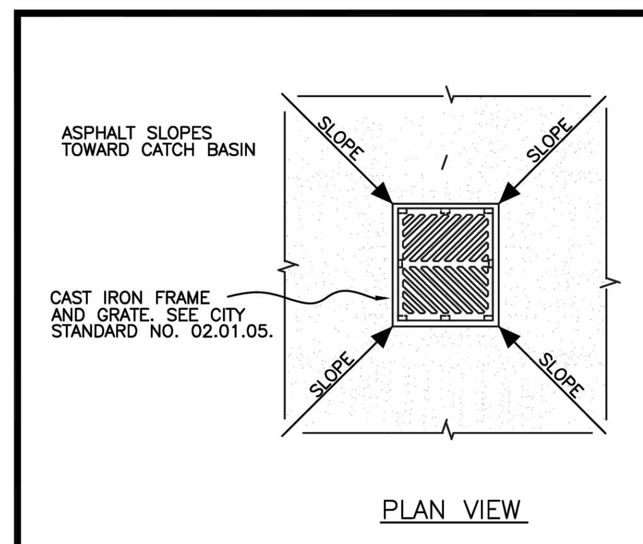
NOTES:
1. MAXIMUM LENGTH OF PIPE BETWEEN CATCH BASINS SHALL BE 400'.
2. MAXIMUM GUTTER LINE FLOW LENGTH SHALL BE 300'.
3. TYPE I CATCH BASIN IS USED FOR DEPTHS LESS THAN 5'–0" FROM TOP OF GRATE TO I.E.(PIPE INVERT).
4. PRECAST BASE SECTION SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN. KNOCKOUTS SHALL BE ON 4 SIDES WITH A MAXIMUM DIAMETER OF 20" TO PROVIDE FOR A MINIMUM SUMP DEPTH OF 18".
5. REINFORCING BARS SHALL BE CUT OR BENT AS REQUIRED TO CLEAR CUTOUTS.
6. THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION SHALL NOT EXCEEED 1/2" PER FOOT.
7. CATCH BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C 478 (AASHTO M 199) AND ASTM C 890 UNLESS OTHERWISE NOTED.
8. THE APRON SHALL BE 8" IN DEPTH.
9. CATCH BASIN MARKER WILL BE AFFIXED WITH MANUFACTURER'S EPOXY IN DRY WEATHER, 40 DEGREES OR WARMER. IF CURB EXISTS MARKER IS PLACED ON TOP OF CURB, IF A RAISED EDGE PLACE MARKER ON THE WEDGE, IF NO CURB PLACE ON PAVEMENT ON SIDE LEAST EXPOSED TO TRAFFIC



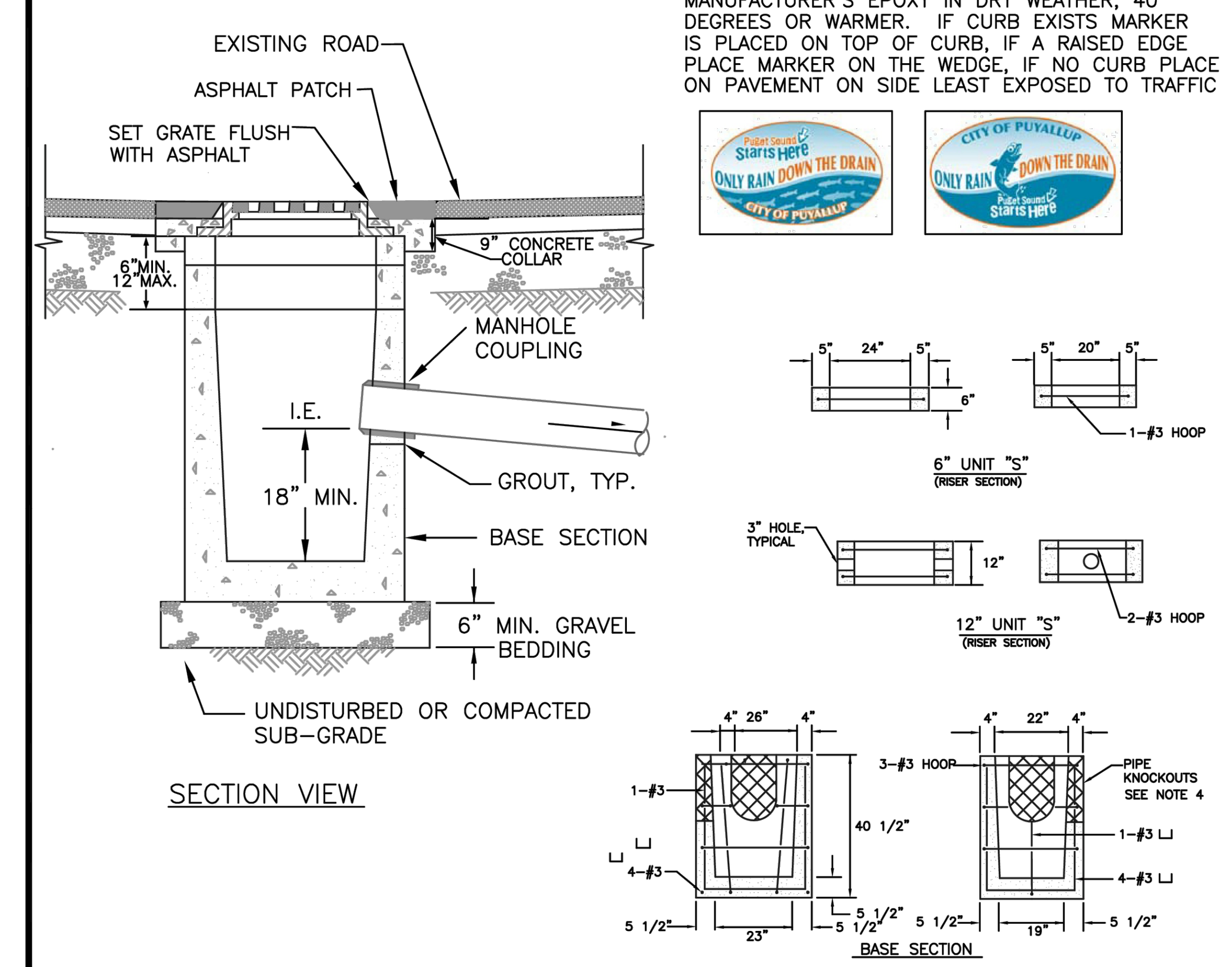
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

CATCH BASIN TYPE 1 (GUTTER DRAIN)

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
LINDA LANSING	LINDA LIAN	COLLEEN HARRIS	XXXX	02.01.03
FILE NAME F:\DWG\COMMON\STDS\CITY\2009\02_SD\02.01.03		DATE APPROVED 09/01/1992	DATE REVISED 06/01/2003	SCALE NTS



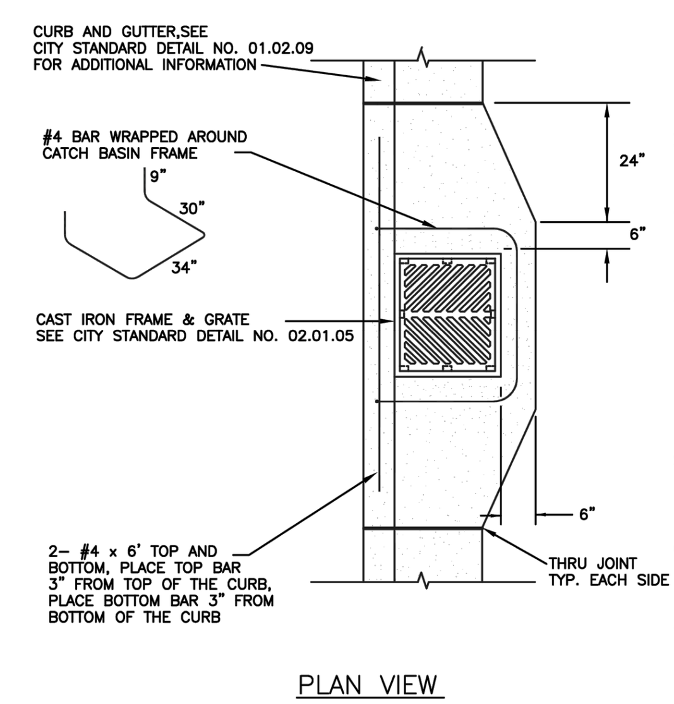
NOTES:
1. MAXIMUM LENGTH OF PIPE BETWEEN CATCH BASINS SHALL BE 400'.
2. TYPE I CATCH BASIN IS USED FOR DEPTHS LESS THAN 5'–0" FROM TOP OF GRATE TO I.E.(PIPE INVERT).
3. PRECAST BASE SECTION SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN. KNOCKOUTS SHALL BE ON 4 SIDES WITH A MAXIMUM DIAMETER OF 20" TO PROVIDE FOR A MINIMUM SUMP DEPTH OF 18".
4. THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION SHALL NOT EXCEEED 1/2" PER FOOT.
5. CATCH BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C 478 (AASHTO M 199) AND ASTM C 890 UNLESS OTHERWISE NOTED.
6. CATCH BASIN MARKER WILL BE AFFIXED WITH MANUFACTURER'S EPOXY IN DRY WEATHER, 40 DEGREES OR WARMER. IF CURB EXISTS MARKER IS PLACED ON TOP OF CURB, IF A RAISED EDGE PLACE MARKER ON THE WEDGE, IF NO CURB PLACE ON PAVEMENT ON SIDE LEAST EXPOSED TO TRAFFIC



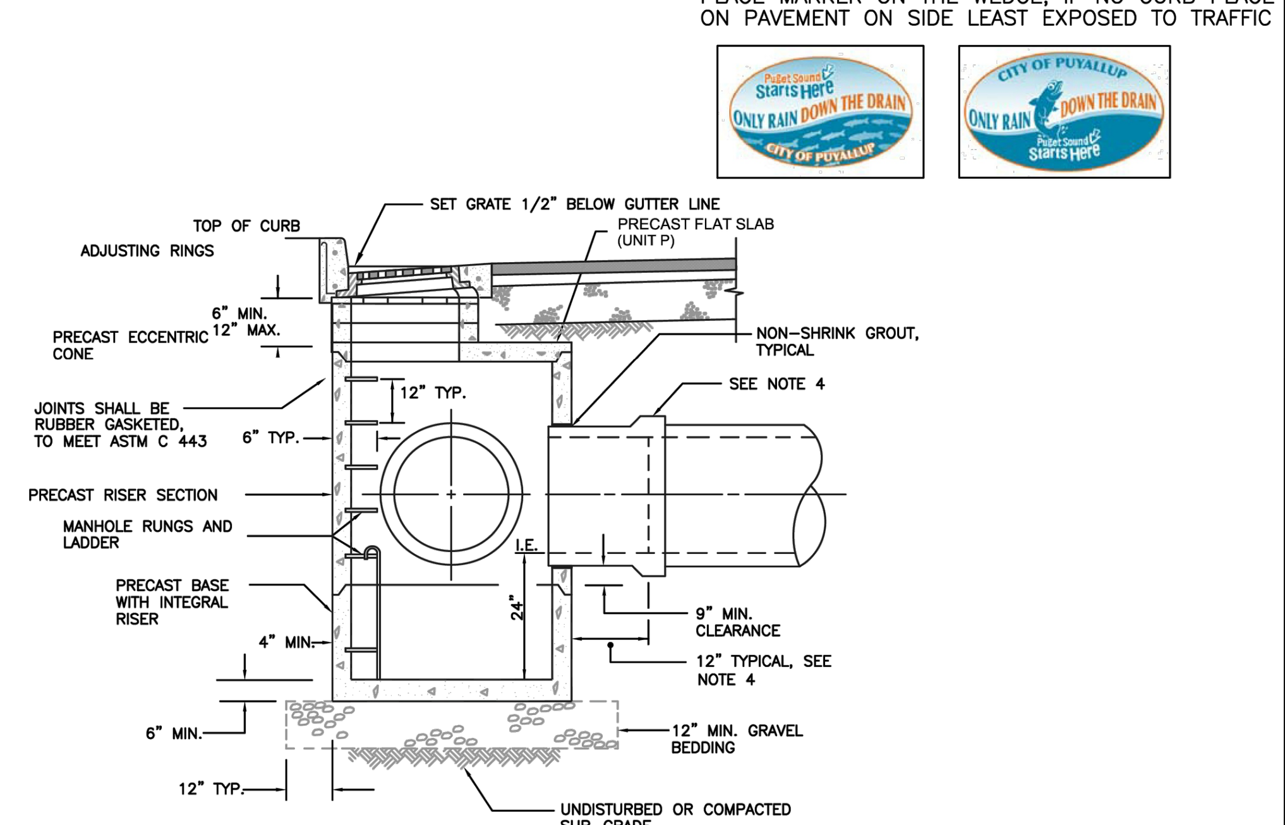
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

CATCH BASIN TYPE 1 (AREA DRAIN)

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
LINDA LANSING	LINDA LIAN	COLLEEN HARRIS	XXXX	02.01.02
FILE NAME F:\DWG\COMMON\STDS\CITY\2009\02_SD\02.01.02		DATE APPROVED 09/01/1992	DATE REVISED 06/01/2003	SCALE NTS



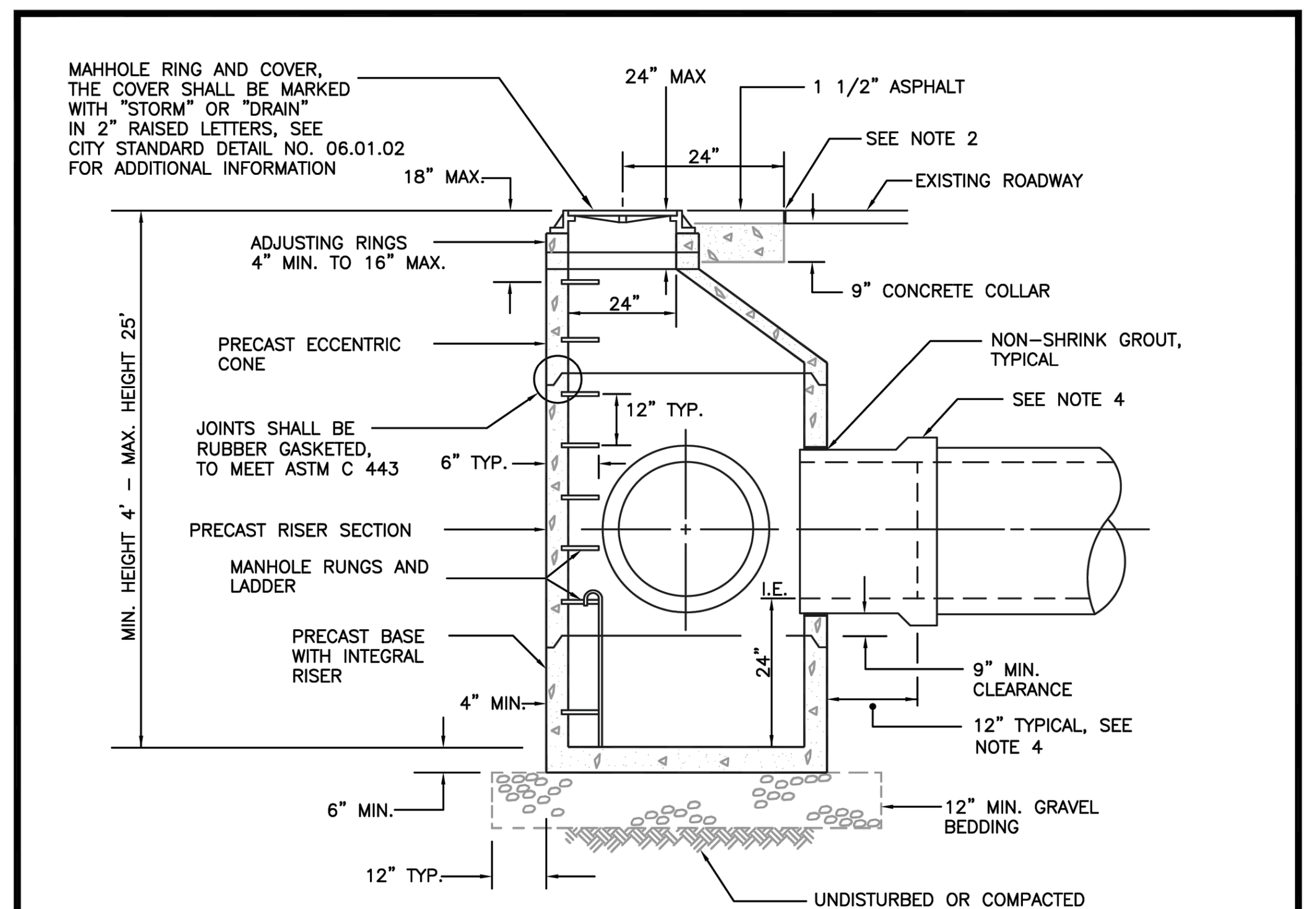
NOTES:
1. MAXIMUM LENGTH OF PIPE BETWEEN CATCH BASINS SHALL BE 400'.
2. MAXIMUM GUTTER LINE FLOW LENGTH SHALL BE 300'.
3. TYPE II CATCH BASIN IS USED FOR DEPTHS GREATER THAN 5'–0" FROM TOP OF GRATE TO I.E.(PIPE INVERT).
4. PRECAST BASE SECTION SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN. KNOCKOUT OR CUTOUT HOLE SIZE SHALL EQUAL THE PIPE OUTER DIAMETER PLUS THE MANHOLE WALL THICKNESS.
5. SEE CITY STANDARD DETAIL NO. 02.01.01 FOR ADDITIONAL INFORMATION REGARDING INSTALLATION OF MANHOLE SECTION.
6. CATCH BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C 478 (AASHTO M 199) AND ASTM C 890 UNLESS OTHERWISE NOTED.
7. CATCH BASIN MARKER WILL BE AFFIXED WITH MANUFACTURER'S EPOXY IN DRY WEATHER, 40 DEGREES OR WARMER. IF CURB EXIST MARKER IS PLACED ON TOP OF CURB, IF A RAISED EDGE PLACE MARKER ON THE WEDGE, IF NO CURB PLACE ON PAVEMENT ON SIDE LEAST EXPOSED TO TRAFFIC



CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

CATCH BASIN TYPE II

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
LINDA LANSING	LINDA LIAN	COLLEEN HARRIS	XXXX	02.01.04
FILE NAME F:\DWG\COMMON\STDS\CITY\2009\02_SD\02.01.04		DATE APPROVED 09/01/1992	DATE REVISED 06/01/2003	SCALE NTS



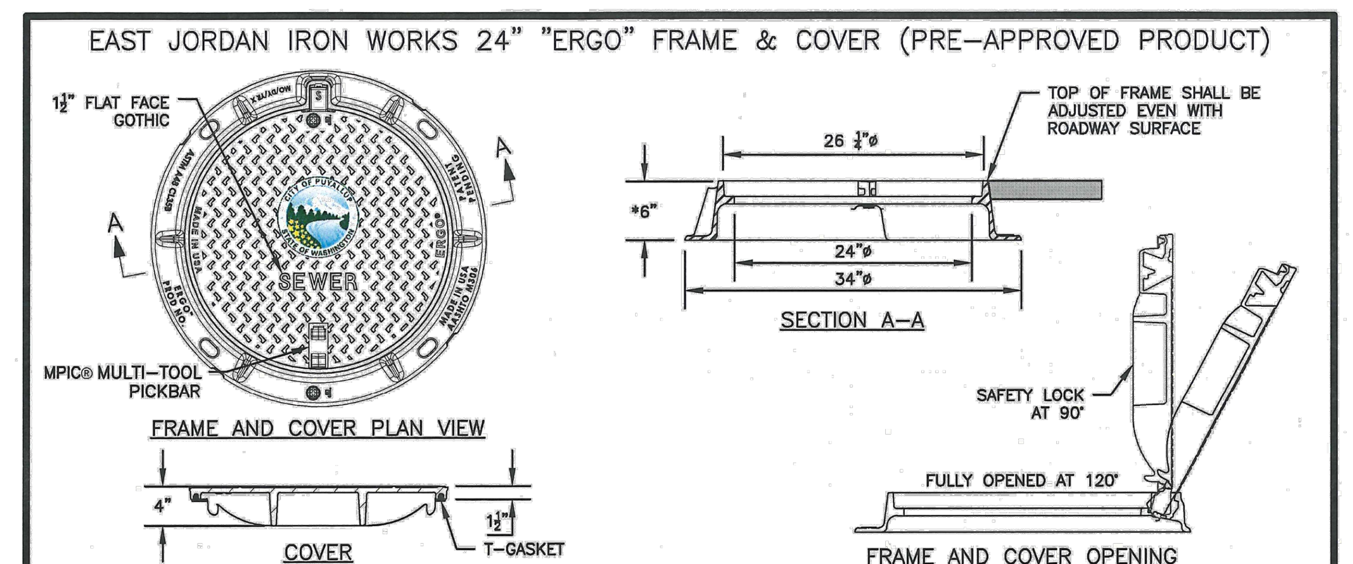
NOTES:
1. THE CONSTRUCTION AND INSTALLATION OF STORM SEWER MANHOLES SHALL CONFORM TO THE REQUIREMENTS OF WSDOT SPEC. SECTION 7–05 AND ASTM C 478.
2. THE FACE OF NEAT LINE CUTS IN EXISTING ASPHALT PAVEMENT SHALL BE TACK COATED AND THE TOP OF THE JOINT SHALL BE SEALED WITH A HOT PAVING GRADE ASPHALT.
3. PRECAST RISER SECTION OR PRECAST BASE WITH INTEGRAL RISER SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS WITH A MINIMUM WALL THICKNESS OF 2". THE SIZE OF THE KNOCKOUT SHALL BE EQUAL TO THE PIPE OUTER DIAMETER PLUS THE MANHOLE WALL THICKNESS. THE MAXIMUM HOLE SIZE IS 36" FOR A 48" MANHOLE, 42" FOR A 54" MANHOLE, 60" FOR A 72" MANHOLE, AND 84" FOR A 96" MANHOLE.
4. A FLEXIBLE GASKETED JOINT SHALL BE INSTALLED WITHIN 12" OF EACH CONNECTION TO A MANHOLE. THE CONNECTION OF CONCRETE OR DUCTILE IRON PIPE TO A MANHOLE SHALL BE CEMENT MORTARED. DUCTILE IRON PIPE SHALL BE SEALED WITH MASTIC AT THE CONNECTION POINT PRIOR TO BEING MORTARED. THE CONNECTION OF PVC PIPE TO A MANHOLE SHALL UTILIZE A MANHOLE COUPLING (SAND COLLAR) WITH A RUBBER GASKET.
5. THE MANHOLE COVER SHALL BE MARKED WITH "STORM" OR "DRAIN" IN 2 INCH RAISED LETTERS. MANHOLE RING AND COVER SHALL CONFORM TO CITY STANDARD DETAIL NO. 06.01.03
6. MANHOLE STEP AND LADDER SHALL CONFORM TO CITY STANDARD DETAILS NO. 06.01.04 AND 06.01.05

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

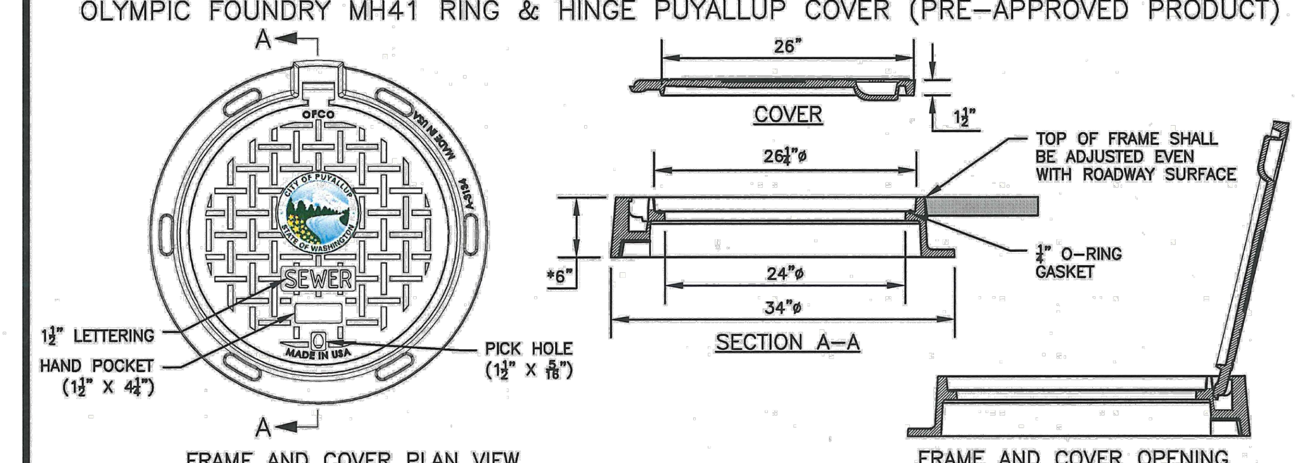
STORM SEWER MANHOLE

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
JIM ERWIN-SVOBODA	LINDA LIAN	COLLEEN HARRIS	Linda Lian	02.01.01
FILE NAME F:\DWG\COMMON\STDS\CITY\2009\02_SD\02.01.01		DATE APPROVED 09/01/1992	DATE REVISED 09/21/2012	SCALE NTS

EAST JORDAN IRON WORKS 24" "ERGO" FRAME & COVER (PRE–APPROVED PRODUCT)



OLYMPIC FOUNDRY MH41 RING & HINGE PUYALLUP COVER (PRE–APPROVED PRODUCT)



NOTES:
1. 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.
2. 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 WITHIN A PEDESTRIAN PATHWAY, THE MANHOLE FRAME AND COVER SHALL BE ADA COMPLIANT.
3. NON–ROCKING FIT FOR MANHOLE COVERS.
4. CASTING TO BE SHOT BLASTED AND FREE FROM SURFACE SAND AND SCALE.
5. CASTING TO BE SMOOTH, TRUE TO PATTERN, FREE FROM BLOWHOLES, POROSITY HARD SPOTS, SHRINK HOLES, WARP, OR ANY OTHER DEFECTS WHICH COULD IMPAIR SERVICEABILITY.
6. CASTINGS SHALL BE UNCOATED.
7. FOR STORM APPLICATIONS CAST LETTERS SHALL READ "STORM".
8. INSTALL FRAME AND COVER IN ROADWAY WITH HINGED SIDE OF ASSEMBLY POINTED TOWARD ONCOMING TRAFFIC.
9. THE CITY SHALL HAVE THE RIGHT TO REQUIRE INSPECTION AND APPROVAL OF ALL CASTINGS PRIOR TO PAINTING.
10. REPAIR OR DEFECTS BY WELDING, OR BY THE USE OF "SMOOTH–ON" OR SIMILAR MATERIAL WILL NOT BE PERMITTED.
11. 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.

CITY OF PUYALLUP
OFFICE of THE CITY ENGINEER

APPROVED FOR PUBLICATION
HANS P. HUNGER
STATE OF WASHINGTON
PROFESSIONAL ENGINEER
DATE SEALED: 2/5/2018

MANHOLE FRAME AND COVER

(NOT TO SCALE)
CITY STANDARD 06.01.02

APPROVED

BY______________________
CITY OF PUYALLUP
ENGINEERING SERVICES

DATE____________________

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.

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1 CITY COMMENTS – 07–13–21
- ADDED 06.01.02 SEWER DETAIL
- ADDED CoP APPROVAL STAMP

No.	Date	By	Ckd.	Appr.	Revision
1	2/10/25	DC	DD	DD	REVISED PER SITE PLAN CHANGES

Title: UTILITY DETAILS - ASBUILT
HOMEWOOD SUITES

For: HERITAGE INN & SUITES OF PUYALLUP, LLC
4500 36TH AVE. S, SUITE 200
FARGO, NE 58104

DON E. DAWES
STATE OF WASHINGTON
42009
REGISTERED PROFESSIONAL ENGINEER
8/29/25

Scale: Horizontal N/A Vertical N/A

Designed DC
Drawn DC
Checked DD
Approved DD
Date 8/29/25

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number 22507
Sheet C-8.2 of 8

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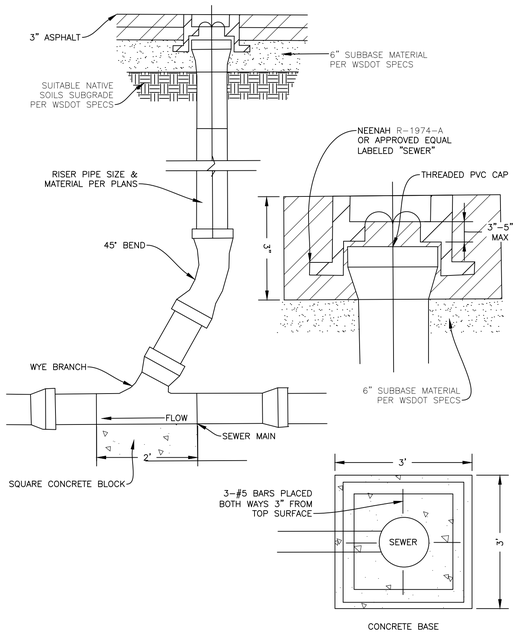
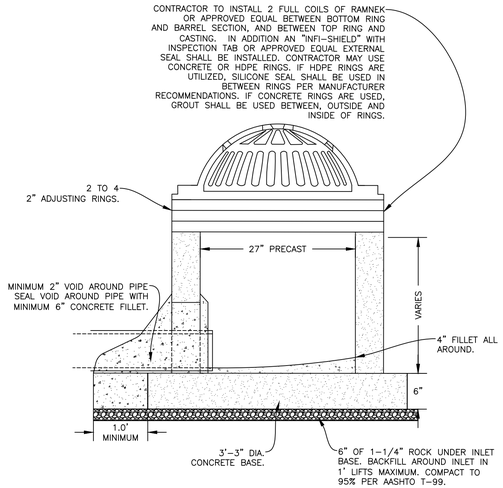
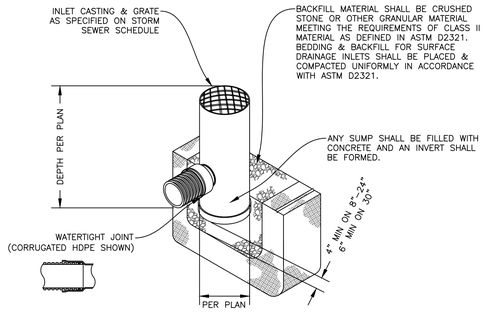


1 STORM SEWER CLEANOUT (IN PAVEMENT)
N.T.S.



NOTES:
1. BACKFILL AROUND INLET SHALL BE MAX 12" LIFTS. COMPACT TO 95% PER AASHTO T-99.
2. THE CONTRACTOR SHALL HAVE THE OPTION OF USING PRECAST OR POURED IN PLACE BASES. CLASS OF CONCRETE SHALL BE TYPE AE.
3. PRECAST RISERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M199.
4. CASTING TYPE PER MANHOLE SCHEDULE.
5. DOGHOUSE TO BE CONCRETED INSIDE AND OUT WITH CONCRETE TO BE VIBRATED AND TROWEL FINISHED.

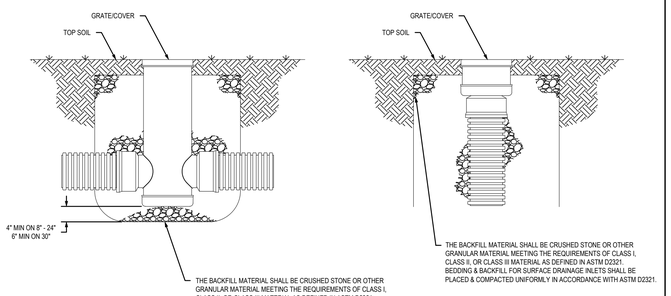
2 CONCRETE YARD INLET (YI)
NTS



NOTES:
1. CONTRACTOR SHALL CONTACT MANUFACTURER (ADS) FOR CORRECT SIZING OF STRUCTURES AND FOR INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS.

3 NYLOPLAST HDPE YARD INLET
N.T.S.

NON TRAFFIC INSTALLATION



DRAWN BY	CJA	MATERIAL	
DATE	9-30-99		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-11-16		
DWG SIZE	A	SCALE 1:25	SHEET 1 OF 1

Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2496
www.nyloplast-us.com

TITLE: DRAIN BASIN & INLINE DRAIN NON TRAFFIC INSTALLATION

DWG NO. 7001-110-111 REV E

APPROVED

BY_____
CITY OF PUYALLUP
ENGINEERING SERVICES

DATE_____

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.

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⚠ CITY COMMENTS – 07-13-21
- ADDED CoP APPROVAL STAMP

No.	Date	By	Chd.	Appr.	Revision
1	2/10/25	DC	DD	DD	REVISED PER SITE PLAN CHANGES

Title: UTILITY DETAILS - ASBUILT

HOMEWOOD SUITES

For: HERITAGE INN & SUITES OF PUYALLUP, LLC
4500 36TH AVE. S, SUITE 200
FARGO, NE 58104

DON E. DAWES — STATE OF WASHINGTON — 42009 — REGISTERED PROFESSIONAL ENGINEER
8/29/25

Scale: Horizontal N/A Vertical N/A

Designed DC Drawn DC Checked DD Approved DD Date 8/29/25

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222 barghausen.com

Job Number 22507

Sheet C-8.3 8

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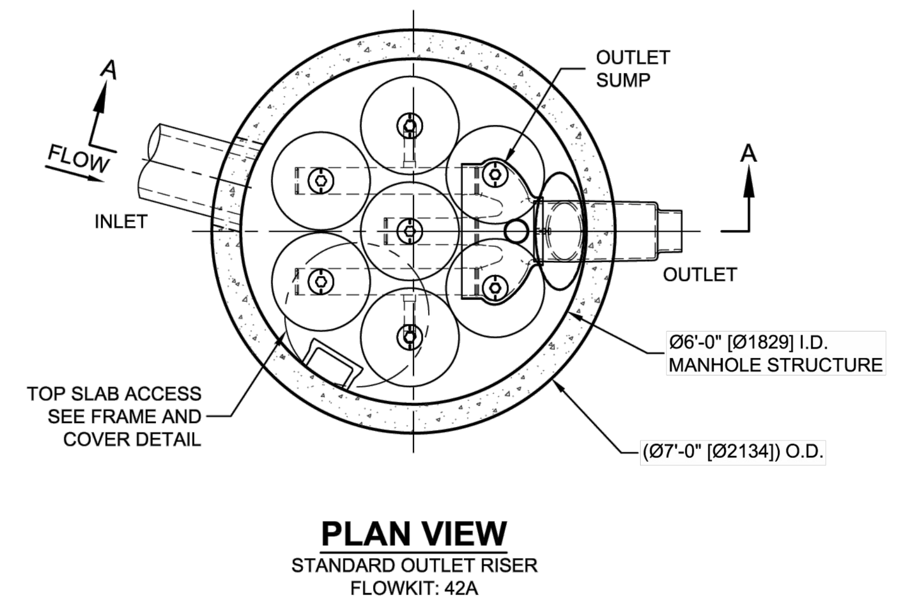
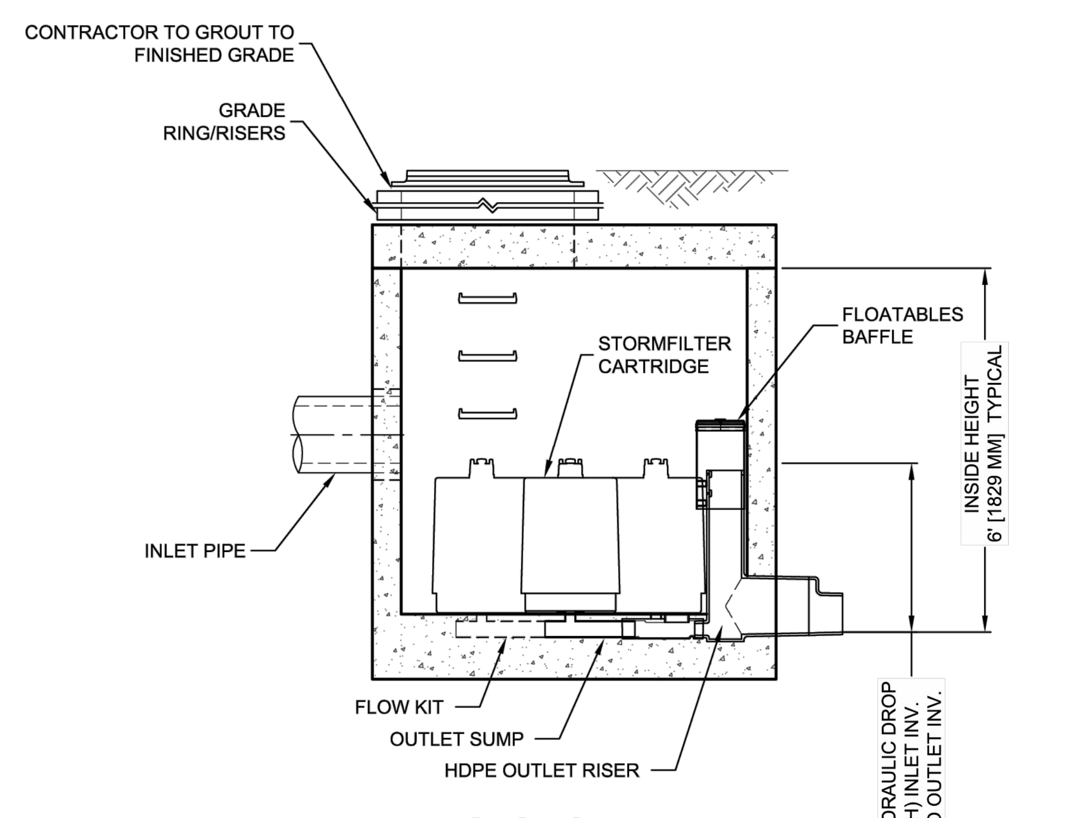


PLAN VIEW
STANDARD OUTLET RISER
FLOWKIT: 42A



SECTION A-A

The Stormwater Management StormFilter®
THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,322,629; 5,524,576; 5,707,527; 5,985,157; 6,027,639; 6,649,048; RELATED FOREIGN PATENTS, OR OTHER PATENTS PENDING.

STORMFILTER DESIGN NOTES

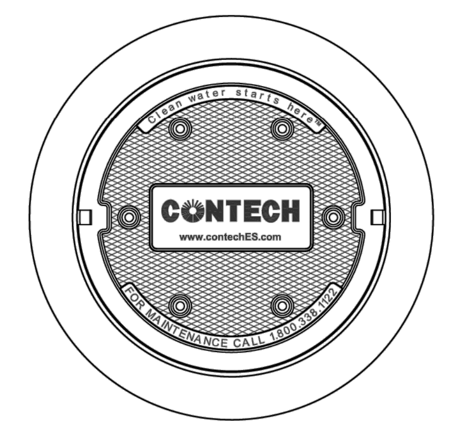
STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD MANHOLE STYLE IS SHOWN WITH THE MAXIMUM NUMBER OF CARTRIDGES (7). VOLUME SYSTEM IS ALSO AVAILABLE WITH MAXIMUM 7 CARTRIDGES. Ø6'-0" [1829 mm] MANHOLE STORMFILTER PEAK HYDRAULIC CAPACITY IS 1.5 CFS [42.5 L/s] . IF THE SITE CONDITIONS EXCEED 1.5 CFS [42.5 L/s] AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

PREFERRED STORM FILTER FOR WEST BASIN

CARTRIDGE SELECTION

CARTRIDGE HEIGHT	27" [686 mm]			18" [458 mm]			LOW DROP		
RECOMMENDED HYDRAULIC DROP (H)	3.05' [930 mm]			2.3' [700 mm]			1.8' [550 mm]		
SPECIFIC FLOW RATE (gpm/sf) [L/s/m²]	2 [1.30]	1.67* [1.08]	1 [0.65]	2 [1.30]	1.67* [1.08]	1 [0.65]	2 [1.30]	1.67* [1.08]	1 [0.65]
CARTRIDGE FLOW RATE (gpm) [L/s]	22.5 [1.42]	18.79 [1.19]	11.25 [0.71]	15 [0.95]	12.53 [0.79]	7.5 [0.44]	10 [0.63]	8.35 [0.54]	5 [0.32]

* 1.67 gpm/sf [1.08 L/s/m²] SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB® (PSORB) MEDIA ONLY



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	ST#1
WATER QUALITY FLOW RATE (cfs) [L/s]	0.1105
PEAK FLOW RATE (cfs) [L/s]	1.1031
RETURN PERIOD OF PEAK FLOW (yrs)	100
CARTRIDGE HEIGHT (SEE TABLE ABOVE)	18"
NUMBER OF CARTRIDGES REQUIRED	7
CARTRIDGE FLOW RATE	7.5
MEDIA TYPE (PERLITE, ZPG, PSORB)	ZPG

PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE #1	~~413.35~~	N-12	12"
INLET PIPE #2	413.34	*	*
OUTLET PIPE	411.05	N-12	12"

RIM ELEVATION	421.84

ANTI-FLOTATION BALLAST	WIDTH	HEIGHT
	*	*

NOTES/SPECIAL REQUIREMENTS:

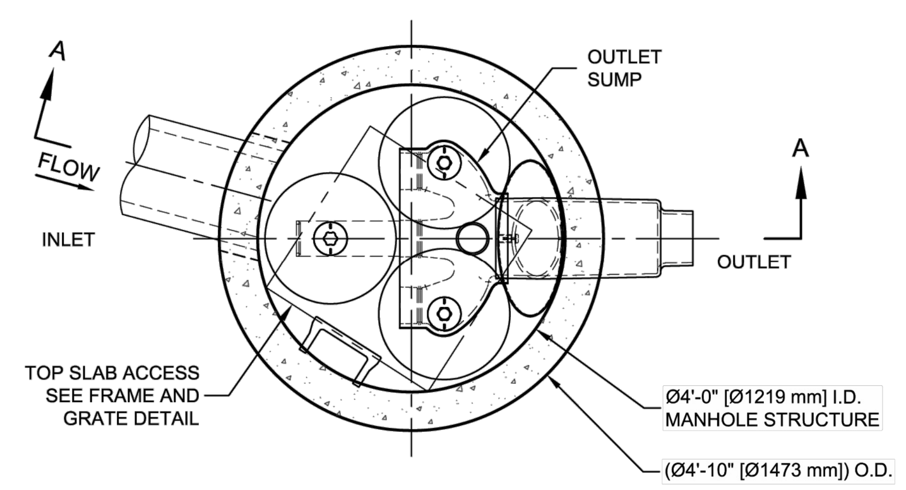
* PER ENGINEER OF RECORD

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR SITE SPECIFIC DRAWINGS WITH DETAILED VAULT DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
4. STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS-20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 5' [1524 mm] AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
6. FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES [178 mm]. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 38 SECONDS.
7. SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) [L/s] DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft)[m²].
8. STORMFILTER STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

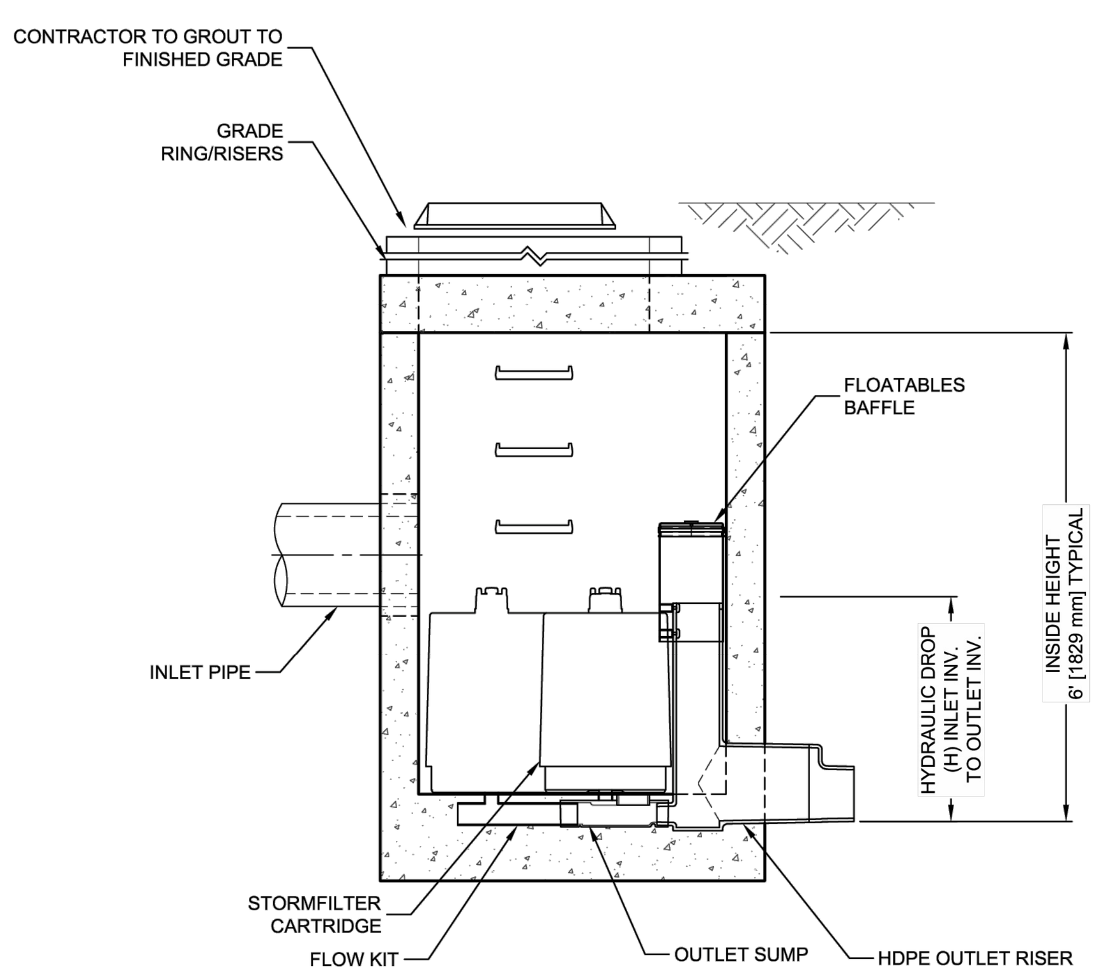
INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER STRUCTURE.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET PIPE(S).
E. CONTRACTOR TO PROVIDE AND INSTALL CONNECTOR TO THE OUTLET RISER STUB. STORMFILTER EQUIPPED WITH A DUAL DIAMETER HDPE OUTLET STUB AND SAND COLLAR. IF OUTLET PIPE IS LARGER THAN 8 INCHES [200 mm], CONTRACTOR TO REMOVE THE 8 INCH [200 mm] OUTLET STUB AT MOLDED-IN CUT LINE. COUPLING BY FERNCO OR EQUAL AND PROVIDED BY CONTRACTOR.
F. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.

CONTECH® ENGINEERED SOLUTIONS LLC
www.contechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

SFMH72
STORMFILTER
STANDARD DETAIL



PLAN VIEW
STANDARD OUTLET RISER
FLOWKIT: 40A



SECTION A-A

I:\COMMON\CAD\TREATMENT\10 STORMFILTER\40 STANDARD DRAWINGS\SF MH\DWG\METRIC - WIP\SFMH48M-DTL WITH GRATE.DWG 5/12/2017 4:18 PM

The Stormwater Management StormFilter®
THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,322,629; 5,524,576; 5,707,527; 5,985,157; 6,027,639; 6,649,048; RELATED FOREIGN PATENTS, OR OTHER PATENTS PENDING.

STORMFILTER DESIGN NOTES

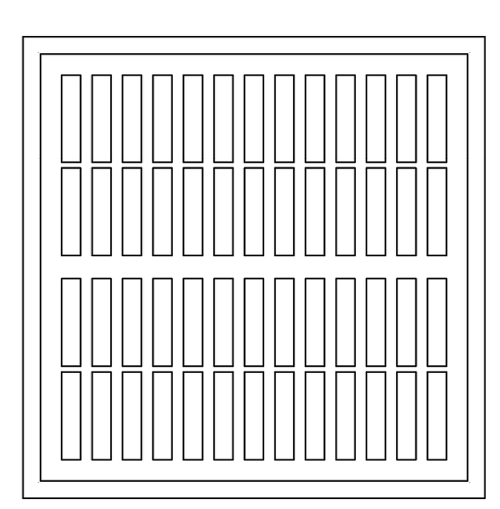
STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD MANHOLE STYLE IS SHOWN WITH THE MAXIMUM NUMBER OF CARTRIDGES (3). VOLUME SYSTEM IS ALSO AVAILABLE WITH MAXIMUM 3 CARTRIDGES. Ø4 [1219 mm] MANHOLE STORMFILTER PEAK HYDRAULIC CAPACITY IS 1.0 CFS [28.3 L/s] . IF THE SITE CONDITIONS EXCEED 1.0 CFS [28.3 L/s] AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

STORM FILTER FOR EAST BASIN

CARTRIDGE SELECTION

CARTRIDGE HEIGHT	27" [686 mm]			18" [458 mm]			LOW DROP		
RECOMMENDED HYDRAULIC DROP (H)	3.05' [930 mm]			2.3' [700 mm]			1.8' [550 mm]		
SPECIFIC FLOW RATE (gpm/sf) [L/s/m²]	2 [1.30]	1.67* [1.08]	1 [0.65]	2 [1.30]	1.67* [1.08]	1 [0.65]	2 [1.30]	1.67* [1.08]	1 [0.65]
CARTRIDGE FLOW RATE (gpm) [L/s]	22.5 [1.42]	18.79 [1.19]	11.25 [0.71]	15 [0.95]	12.53 [0.79]	7.5 [0.44]	10 [0.63]	8.35 [0.54]	5 [0.32]

* 1.67 gpm/sf [1.08 L/s/m²] SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB® (PSORB) MEDIA ONLY



30" [762] SQ. FRAME AND GRATE
(ALSO AVAILABLE IN ROUND)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	CB#9
WATER QUALITY FLOW RATE (cfs) [L/s]	0.0489
PEAK FLOW RATE (cfs) [L/s]	0.4898
RETURN PERIOD OF PEAK FLOW (yrs)	100
CARTRIDGE HEIGHT (SEE TABLE ABOVE)	18"
NUMBER OF CARTRIDGES REQUIRED	3
CARTRIDGE FLOW RATE	7.5
MEDIA TYPE (PERLITE, ZPG, PSORB)	ZPG

PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE #1	*	*	*
INLET PIPE #2	*	*	*
OUTLET PIPE	416.49 ~~416.60~~	N-12	12"

RIM ELEVATION	419.99

ANTI-FLOTATION BALLAST	WIDTH	HEIGHT
	*	*

NOTES/SPECIAL REQUIREMENTS:

* PER ENGINEER OF RECORD

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3. FOR SITE SPECIFIC DRAWINGS WITH DETAILED VAULT DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
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6. FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES [178 mm]. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 38 SECONDS.
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F. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.

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9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

SFMH48
STORMFILTER
STANDARD DETAIL

2 CITY & WATER COMMENTS – 11–05–21
- ADDED PLAN SHEET FOR STORMWATER PRODUCT MANUFACTURER DETAILS

APPROVED

BY________________________
CITY OF PUYALLUP
ENGINEERING SERVICES

DATE______________________

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.

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

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

No.	Date	By	Ckd.	Appr.	Revision
1	2/10/25	DC	DD	DD	REVISED PER SITE PLAN CHANGES

Title: UTILITY DETAILS - ASBUILT

HOMEWOOD SUITES

For: HERITAGE INN & SUITES OF PUYALLUP, LLC
4500 36TH AVE. S, SUITE 200
FARGO, NE 58104

DON E. DAWES
STATE OF WASHINGTON
42009
REGISTERED PROFESSIONAL ENGINEER
[illegible]
8/29/25

Scale: Horizontal N/A Vertical N/A

Designed DC
Drawn DC
Checked DD
Approved DD
Date 8/29/25

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number 22507

Sheet C-8.4 of 8

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ADVANCED DRAINAGE SYSTEMS, INC.

SiteASSIST StormTech
FOR STORMTECH INSTRUCTIONS, DOWNLOAD THE INSTALLATION APP

MC-3500 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH MC-3500.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

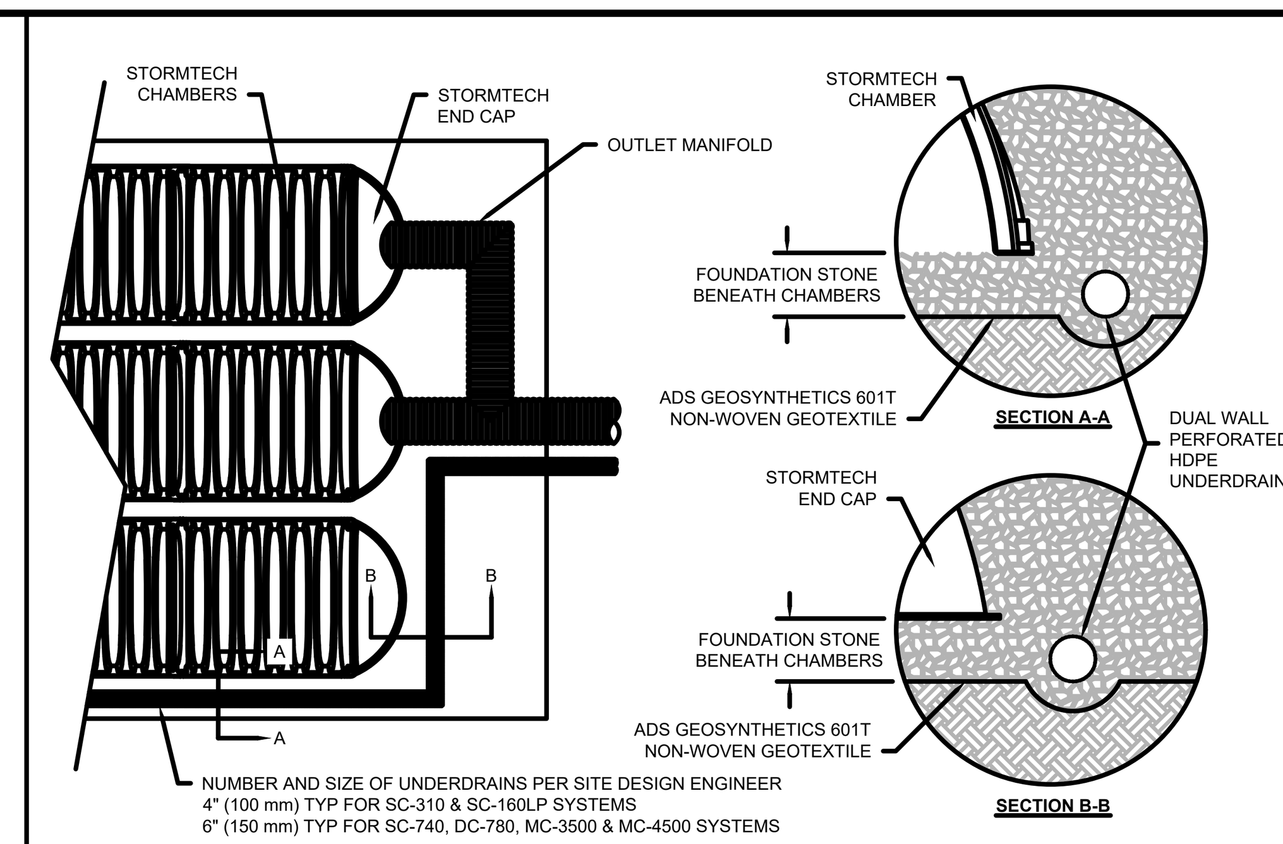
1. STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS.
   STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - SPACING BETWEEN THE CHAMBER ROWS.
7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
8. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
9. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
10. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
11. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

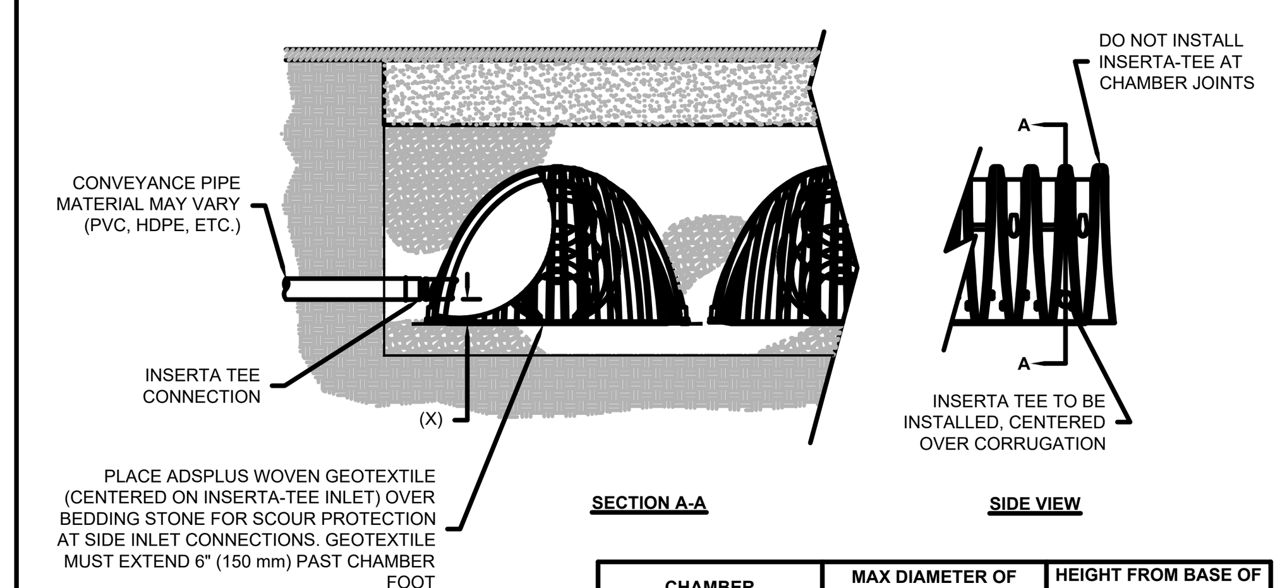
1. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
2. THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



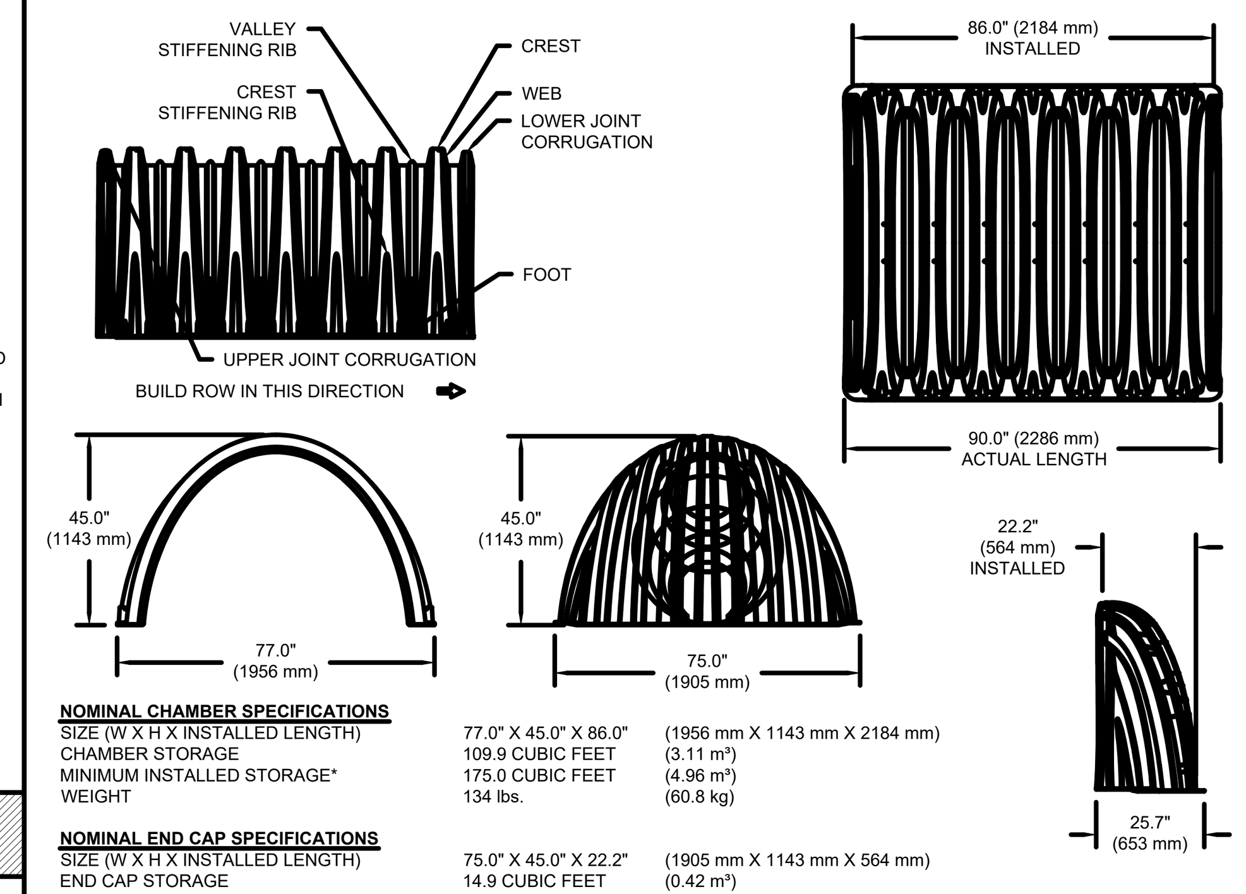
5 UNDERDRAIN DETAIL



CHAMBER	MAX DIAMETER OF INSERTA TEE	HEIGHT FROM BASE OF CHAMBER (X)
SC-310	6" (150 mm)	4" (100 mm)
SC-740	10" (250 mm)	4" (100 mm)
DC-780	10" (250 mm)	4" (100 mm)
MC-3500	12" (300 mm)	6" (150 mm)
MC-4500	12" (300 mm)	8" (200 mm)
INSERTA TEE FITTINGS AVAILABLE FOR SDR 26, SDR 35, SCH 40 IPS GASKETED & SOLVENT WELD, N-12, HP STORM, C-900 OR DUCTILE IRON		

NOTE:
PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS. CONTACT STORMTECH FOR MORE INFORMATION.

6 INSERTA-TEE SIDE INLET DETAIL



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	77.0" X 45.0" X 86.0"	(1956 mm X 1143 mm X 2184 mm)
CHAMBER STORAGE	109.9 CUBIC FEET	(3.11 m³)
MINIMUM INSTALLED STORAGE*	175.0 CUBIC FEET	(4.96 m³)
WEIGHT	134 lbs.	(60.8 kg)

NOMINAL END CAP SPECIFICATIONS

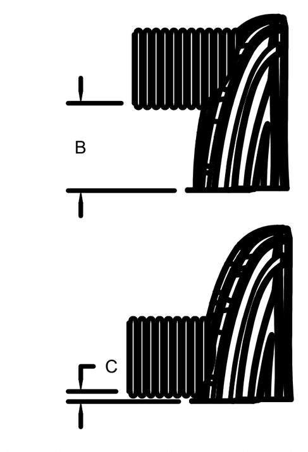
SIZE (W X H X INSTALLED LENGTH)	75.0" X 45.0" X 22.2"	(1905 mm X 1143 mm X 564 mm)
END CAP STORAGE	14.9 CUBIC FEET	(0.42 m³)
MINIMUM INSTALLED STORAGE*	45.1 CUBIC FEET	(1.28 m³)
WEIGHT	49 lbs.	(22.2 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION, 6" (152 mm) STONE BETWEEN CHAMBERS, 6" (152 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY.

PARTIAL CUT HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PARTIAL CUT HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"
END CAPS WITH A WELDED CROWN PLATE END WITH "C"

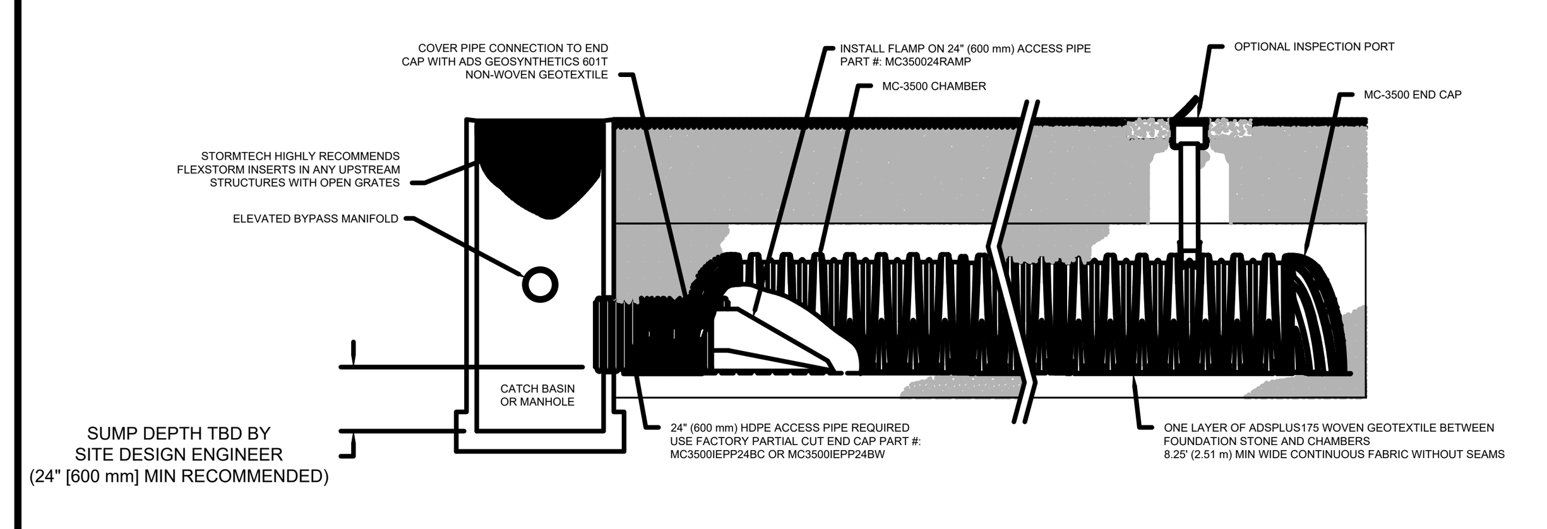
PART #	STUB	B	C
MC3500IEPP06T	6" (150 mm)	33.21" (844 mm)	---
MC3500IEPP06B		---	0.66" (17 mm)
MC3500IEPP08T	8" (200 mm)	31.16" (791 mm)	---
MC3500IEPP08B		---	0.81" (21 mm)
MC3500IEPP10T	10" (250 mm)	29.04" (738 mm)	---
MC3500IEPP10B		---	0.93" (24 mm)
MC3500IEPP12T	12" (300 mm)	26.36" (670 mm)	---
MC3500IEPP12B		---	1.35" (34 mm)
MC3500IEPP15T	15" (375 mm)	23.39" (594 mm)	---
MC3500IEPP15B		---	1.50" (38 mm)
MC3500IEPP18TC	18" (450 mm)	20.03" (509 mm)	---
MC3500IEPP18TW			
MC3500IEPP18BC		---	1.77" (45 mm)
MC3500IEPP18BW			
MC3500IEPP24TC	24" (600 mm)	14.48" (368 mm)	---
MC3500IEPP24TW			
MC3500IEPP24BC		---	2.06" (52 mm)
MC3500IEPP24BW			
MC3500IEPP30BC	30" (750 mm)	---	2.75" (70 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL



CUSTOM PARTIAL CUT INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

2 MC-3500 TECHNICAL SPECIFICATIONS



INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

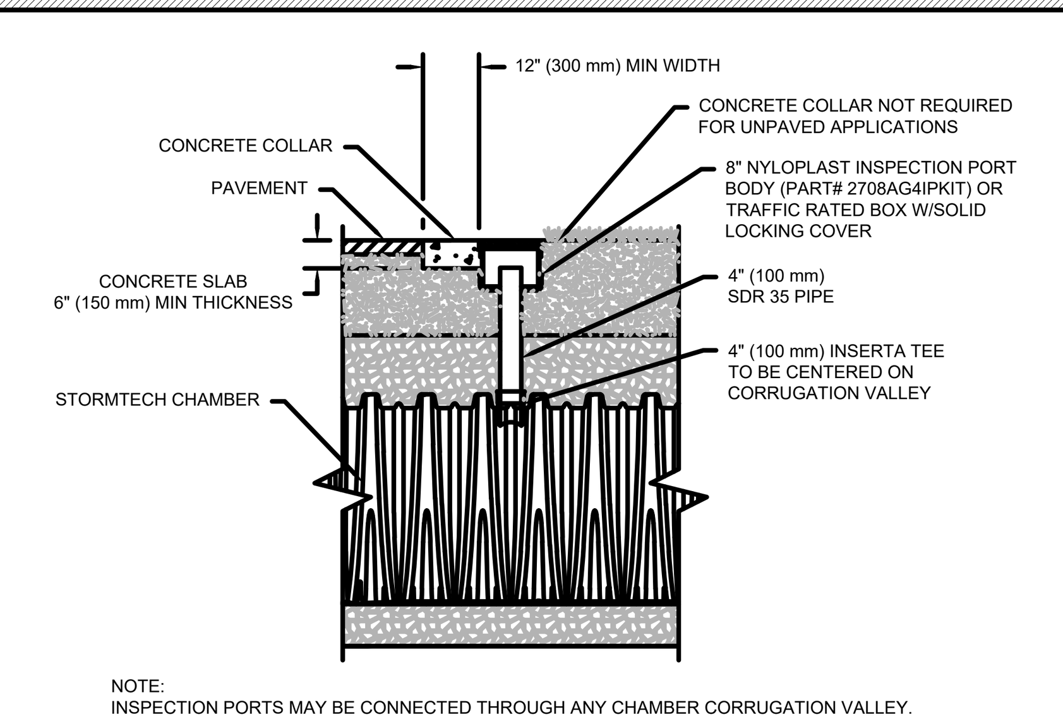
STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

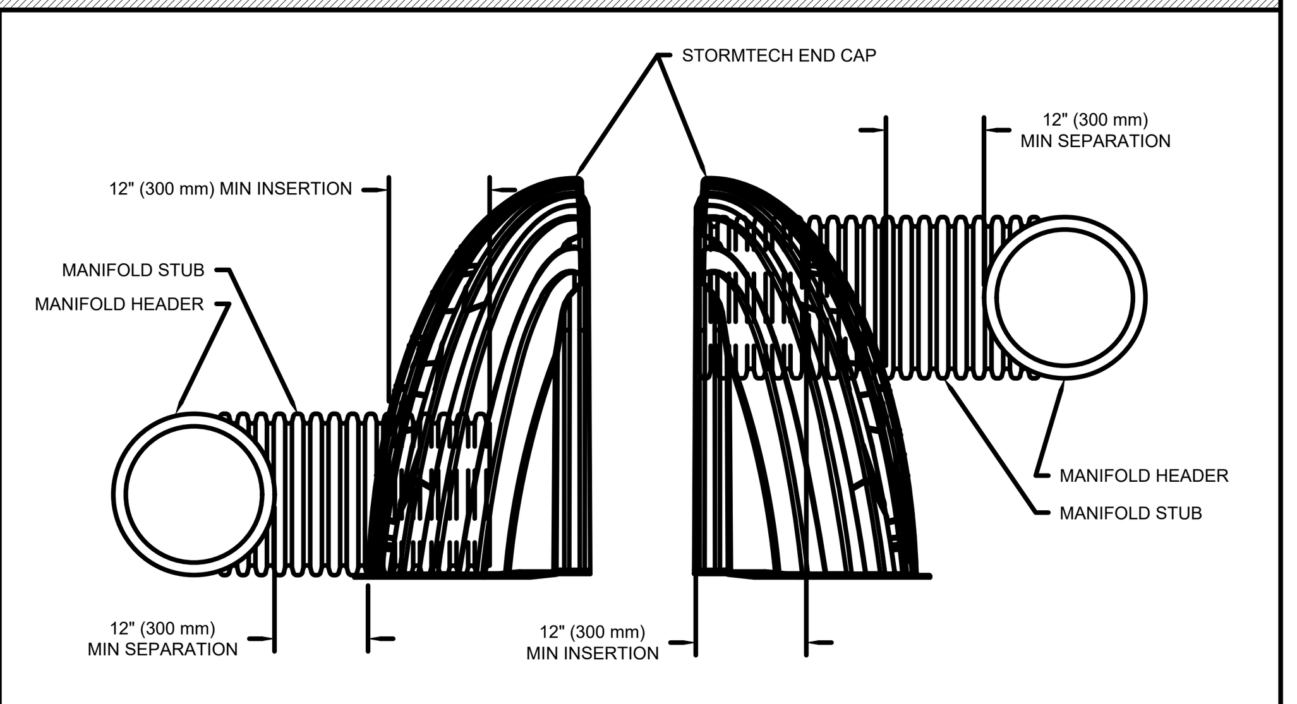
1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

3 MC-3500 ISOLATOR ROW PLUS DETAIL



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.

4 4" PVC INSPECTION PORT DETAIL (MC SERIES CHAMBER)



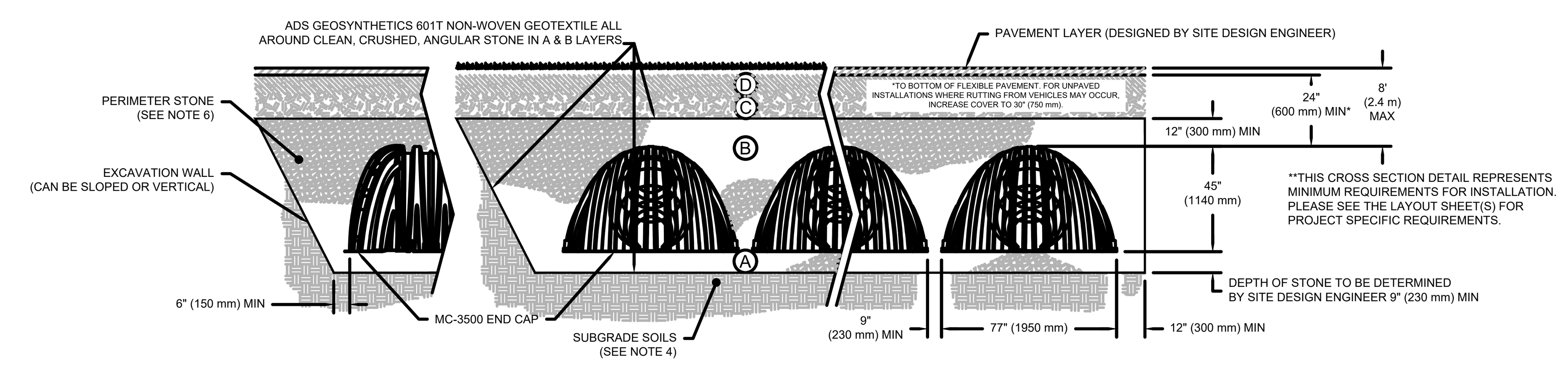
NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

7 MC-SERIES END CAP INSERTION DETAIL

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 4	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

1 MC-3500 CROSS SECTION DETAIL

DATE:
PROJECT NO:
NOT TO SCALE
DRAWN:
REVIEWED:
REV:

MC-3500 STANDARD DETAILS

StormTech Detention•Retention•Water Quality
70 INWOOD ROAD, SUITE 3 | ROCKY HILL | CT | 06067
860-529-8188 | 888-892-2694 | WWW.STORMTECH.COM

ADVANCED DRAINAGE SYSTEMS, INC.
4640 TRUEMAN BLVD
HILLIARD, OH 43026

SHEET

No.	Date	By	Ckd.	Appr.	Revision
1	2/10/25	DC	DD	DD	REVISED PER SITE PLAN CHANGES

Title: UTILITY DETAILS - ASBUILT
HOMEWOOD SUITES

For: HERITAGE INN & SUITES OF PUYALLUP, LLC
4500 36TH AVE. S, SUITE 200
FARGO, NE 58104

DON E. DAWES
STATE OF WASHINGTON
42009
REGISTERED PROFESSIONAL ENGINEER
[illegible]
8/29/25

Scale: Horizontal N/A Vertical N/A

Designed DC
Drawn DC
Checked DD
Approved DD
Date 8/29/25

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number 22507
Sheet C-8.5 of 8

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APPROVED

BY_______________________
CITY OF PUYALLUP ENGINEERING SERVICES

DATE_____________________

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.

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

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

2 CITY & WATER COMMENTS – 11-05-21
- ADDED PLAN SHEET FOR STORMWATER PRODUCT MANUFACTURER DETAILS