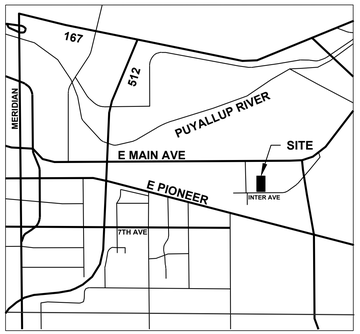
2401 INTER
COVER SHEET

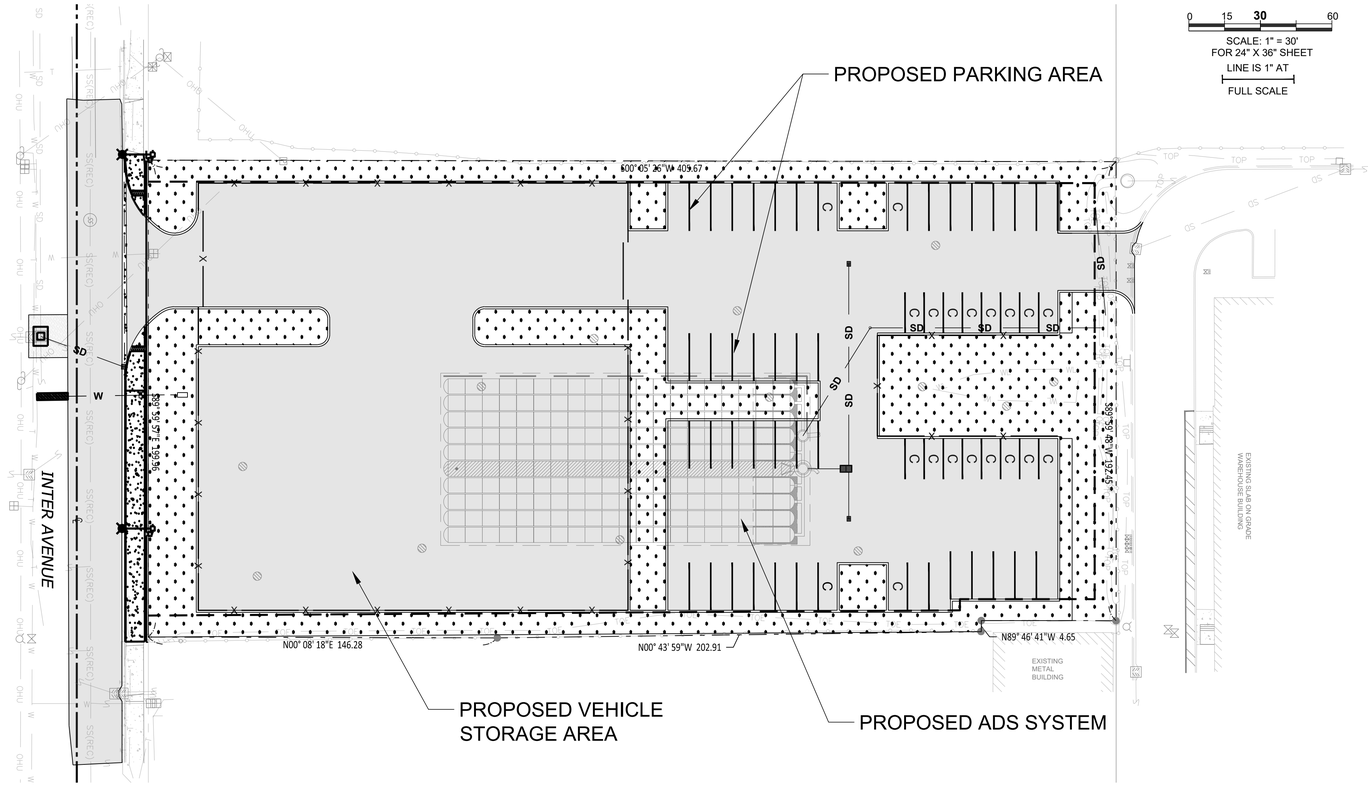
A PORTION OF THE SW 1/4 OF SECTION 26, TOWNSHIP 20 N, RANGE 4 E, W.M. PIERCE COUNTY, WA



VICINITY MAP
SCALE: NTS

SHEET INDEX

SHEET NUMBER	SHEET NAME	DESCRIPTION
1	C-1	COVER SHEET
2	C-2	SITE PLAN
3	C-3	TESC PLAN
4	C-4	TESC NOTES AND DETAILS
5	C-5	GRADING PLAN
6	C-6	FRONTAGE IMPROVEMENT PLAN
7	C-7	STREET LIGHTING PLAN
8-14	C8-C14	NOTES AND DETAILS



N

0 15 30 60
SCALE: 1" = 30'
FOR 24" X 36" SHEET
LINE IS 1" AT
FULL SCALE

SITE SPECIFICATIONS

SITE DATA:
ASSESSORS/TAX PARCEL NUMBER(S): 2105200150
PARCEL/SITE SIZE: 80,436 SF / 1.85 ACRES
SECTION/TOWNSHIP/RANGE: 26/20/04
DEVELOPMENT JURISDICTION: CITY OF PUYALLUP
SITE ADDRESS: 2401 INTER AVE SE
PUYALLUP, WA 98372
ZONING: LIMITED MANUFACTURING
DENSITY: X
PRESENT USE: LIMITED MANUFACTURING
SENSITIVE AREAS: NO
WETLANDS: UNDER CURRENT REVIEW
FLOOD PLAIN HAZARD AREAS: NO
EROSION HAZARD AREAS: NO
LANDSLIDE HAZARD AREAS: NO
COAL MINE HAZARD AREAS: NO
SEISMIC HAZARD AREAS: NO
CREEKS/STREAMS: NO
LAKES: NO
STEEP SLOPES(10% OR GREATER): NO
VOLCANIC: NO
WILDLIFE HABITAT: NO
SHORELINE CLASSIFICATION: NO

NORTH: LIMITED MANUFACTURING
SOUTH: LIMITED MANUFACTURING
EAST: LIMITED MANUFACTURING
WEST: LIMITED MANUFACTURING

VERIFICATION NOTE

ALL EXISTING UTILITIES IN THE CONSTRUCTION AREA SHALL BE IDENTIFIED AND VERIFIED FOR DEPTH AND LOCATION PRIOR TO ANY CONSTRUCTION ACTIVITIES SO TO IDENTIFY ANY POTENTIAL CONFLICTS WITH PROPOSED CONSTRICTION. CONTACT PROJECT ENGINEER IMMEDIATELY IF ANY CONFLICTS ARE IDENTIFIED.

PRIOR TO ANY CONSTRUCTION ACTIVITIES, VERIFY EXISTING TOPOGRAPHY IS CONSISTENT WITH WHAT IS SHOWN ON PLANS AND IF THERE ARE ANY POTENTIAL CONFLICTS WITH PROPOSED CONSTRUCTION ACTIVITIES. CONTACT PROJECT ENGINEER IMMEDIATELY IF ANY CONFLICTS ARE IDENTIFIED.

FIRE SPRINKLER NOTE

FIRE LINE SHALL BE SIZED BY A LICENSED FIRE PROTECTION ENGINEER. A SEPARATE, DETAILED PLAN SHALL BE APPROVED BY THE FIRE MARSHALL AND INSTALLED BY A WASHINGTON CERTIFIED LEVEL "U" CONTRACTOR IN ACCORDANCE WITH WAC 212-80-010. A POST INDICATOR VALVE SHALL BE INSTALLED ON THE SPRINKLER LINE TO ISOLATE THE FIRE SYSTEM FROM THE WATER SYSTEM WHEN REQUIRED.

FILL SPECIFICATIONS

FILL MATERIAL SHALL NOT CONTAIN PETROLEUM PRODUCTS, OR SUBSTANCES WHICH ARE HAZARDOUS, DANGEROUS, TOXIC, OR WHICH OTHERWISE VIOLATE ANY STATE, FEDERAL. OR LOCAL LAW, ORDINANCE, CODE, REGULATION, RULE, ORDER, OR STANDARD.

TOPOGRAPHIC NOTE

THE EXISTING CULTURAL AND TOPOGRAPHICAL DATA SHOWN ON THESE DRAWINGS HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, MCINNIS ENGINEERING CANNOT ENSURE ACCURACY AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OF THAT INFORMATION OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.

PROJECT BENCHMARK

ELEVATION: 60.21 FEET
DESCRIPTION:
SOUTHWEST DEED CORNER BEING A REBAR WITH PLASTIC CAP STAMPED "APEX LS 41278/45792" AT SURFACE

SECONDARY PROJECT BENCHMARK

ELEVATION:61.41 FEET
DESCRIPTION:
SOUTHEAST DEED CORNER BEING A REBAR WITH PLASTIC CAP STAMPED "APEX LS 41278/45792" AT SURFACE

METHODOLOGY:

THIS SURVEY WAS PERFORMED VIA CONVENTIONAL AND RADIAL TRAVERSE METHODS WITH A TOPCON PS103 3" SECOND TOTAL STATION AND A GEOMAX ZOOM 95 3" SECOND TOTAL STATION TOGETHER WITH RTK NETWORK/ROVER TECHNIQUES UTILIZING TOPCON GR-3 RECEIVER AND CARLSON GRx7 RECIEVER AND MEET OR EXCEED ACCURACY REQUIREMENTS CONTAINED IN WAC 332.130.090

LEGAL DESCRIPTION

PER BOUNDARY LINE RESOLUTION PURSUANT TO RCW 58.04.007 AND QUIT CLAIM RECORDED UNDER PIERCE COUNTY AFN 201705310130

LOT 8, ACKERSON'S 2ND ADDITION TO PUYALLUP, ACCORDING TO PLAT RECORDED IN BOOK 8OF PLATS, AT PAGE 25, PIERCE COUNTY, WASHINGTON; SITUATE IN THE CITY OF PUYALLUP, COUNTY OF PIERCE, STATE OF WASHINGTON.

EXCEPT THAT OF LOT 8, ACKERSON'S 2ND ADDITION TO PUYALLUP, ACCORDING TO PLAT RECORDED IN BOOK 8OF PLATS, AT PAGE 25, PIERCE COUNTY, WASHINGTON LAYING EASTERLY OF THE FOLLOWING DESCRIBED LINE;
BEGINNING AT THE SOUTHEAST CORNER OF SAID LOT 8 THENCE NORTH 0° 18' 18" EAST ALONG THE EAST LINE OF LOT 8 A DISTANCE OF 146.28 FEET TO THE INTERSECTION OF THE CYCLONE FENCE AS IT EXISTS AS OF FEBRUARY 17, 2017;
THENCE NORTH 0° 43' 59" WEST ALONG THE EXISTING CYCLONE FENCE A DISTANCE OF 202.91 FEET TO A POINT 5.00 FEET SOUTHERLY OF THE SOUTH FACE OF THE METAL BUILDING AS IT EXISTS AS OF FEBRUARY 17, 2017;
THENCE NORTH 89° 46' 41" WEST PARALLEL WITH THE EXISTING METAL BUILDING A DISTANCE OF 4.65 FEET TO A PONT 5 FEET FROM THE WESTERLY FACE OF THE EXITING METAL BUILDING;
THENCE NORTH 0° 01' 42" EAST PARALLEL WITH THE WESTERLY FACE OF THE EXISTING METAL BUILDING A DISTANCE OF 56.50 FEET TO A POINT ON THE NORTHERLY LINE OF SAID LOT 8, SAID POINT LAYS SOUTH 89° 59' 48" WEST AND 7.85 FEET DISTANT FROM THE NORTHEAST CORNER OF SAID LOT 8;
AREA OF EXCEPTION BEING 753 SQUARE FEET MORE OR LESS.
CONTAINING 80436 SQUARE FEET (1.85 ACRES) MORE OR LESS.

EXISTING LEGEND

- EXISTING SURFACE SPOT ELEVATION
- EXISTING STORM DRAIN CATCH BASIN
- SANITARY SEWER MANHOLE
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING IRRIGATION CONTROL VALVE
- EXISTING POWER METER
- EXISTING UTILITY POLE
- EXISTING UTILITY JUNCTION BOX
- EXISTING SIGN AS NOTED
- EXISTING GROUND SPOT ELEVATION
- POWER JUNCTION BOX
- PROPERTY LINE MARKER
- CENTERLINE
- RIGHT OF WAY
- (481) MAJOR CONTOUR
- (481) MINOR CONTOUR
- TOP EXISTING TOP OF SLOPE
- TOE EXISTING TOE OF SLOPE
- BUILDING
- FLOW LINE CURB
- EXTRUDED CURB
- STANDARD CURB
- EDGE OF CONCRETE
- EDGE OF GRAVEL
- SS(REC) EXISTING SANITARY SEWER LINE RECORD POSITION
- SD EXISTING STORMDRAIN LINE
- W EXISTING WATER LINE
- T EXISTING SUBTERRANEAN TELECOMMUNICATIONS LINE
- OHU EXISTING OVERHEAD UTILITY LINE
- EXISTING CHAINLINK FENCE AS NOTED
- WL WETLAND MARGIN
- EDGE EXISTING ASPHALT PAVING
- EXISTING CONCRETE SURFACE
- EXISTING ASPHALT SURFACE
- EXISTING GRAVEL SURFACE
- BUILDING HATCH

LEGEND

- PROPERTY LINE
- SETBACK
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED LANSCAPE
- PROPOSED ADS SYSTEM
- TRENCH BACKFILL
- PAVING PATCH
- SD STORM DRAIN
- W WATER LINE
- X PROPOSED FENCE
- CATCH BASIN
- CLEAN OUT
- WATER METER
- DOUBLE CHECK VALVE ASSEMBLY
- 58 PROPOSED CONTOUR LINES

APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE _____

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

CIVIL ENGINEER
MCINNIS ENGINEERING
202 E 34TH ST
TACOMA, WA 98404
CONTACT: WILL MCINNIS
OFFICE: 253-414-1992

OWNER/CLIENT:
2401 INTER INC
BOX P.O.252
PUYALLUP, WA 98371
(253) 841-1388
MIKE@EJPOULTRY.COM

SURVEYOR
MCINNIS ENGINEERING
202 E 34TH ST
TACOMA, WA 98404
CONTACT: LARRY WALKER
OFFICE: 253-414-1992

PROJECT SPECIFICATIONS

PARCEL NO: 2105200150
ADDRESS: 2401 INTER AVE SE PUYALLUP, WA 98372
ZONING: LIMITED MANUFACTURING
PARCEL SIZE: 1.85 AC
PROPOSED LOT USE: LM
NO. OF DWELLING UNITS: 0
DOMESTIC WATER SOURCE: PUBLIC
SEWAGE DISPOSAL SYSTEM: PUBLIC
EXISTING PARKING TOTAL: 0
PROPOSED PARKING TOTAL: 3

BASIS OF BEARINGS

HELD BEARING OF SOUTH 89° 59 57 " EAST ALONG THE CENTER LINE OF INTER AVENUE AS SHOWN ON RECORD OF SURVEY FOR BOUNDARY LINE RESOLUTION UNDER PIERCE COUNTY AUDITOR'S FILE NUMBER 201705315001

VERTICAL DATUM

NAVD 88.

THE BENCHMARKS SHOWN HEREON WERE DERIVED BY GPS 15 MINUTE OBSERVATIONS CONSTRAINING TO THE WSRN (WASHINGTON STATE REFERENCE NETWORK) AND EMPLOYING THE 2012a GEOID MODEL.

HORIZONTAL DATUM

ASSUMED

SURVEYORS NOTES:

1. NO DEED CORNERS WERE SET THIS SURVEY
2. THIS SURVEY DOES NOT PURPORT TO SHOW ALL OR ANY EASEMENTS OF RECORD. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF TITLE REPORT.
3. THE PURPOSE OF THIS SURVEY IS TO SHOW CURRENT CONDITIONS OF SITE FOR DESIGN PURPOSES
4. THIS SURVEY SHOWN HEREON IS A CONGLOMERATION OF DATA OBSERVED BY THIS SURVEYOR FROM TWO DIFFERENT COMPANIES. ALL WORK SHOWN HEREON WAS PERFORMED BY THIS SURVEYOR. DATA SHOWN HEREON NORTH OF THE SOUTHERLY BANK OF THE NORTHERLY DEPICTED EAST/WEST DRAINAGE SWALE WAS OBSERVED IN 2024 UNDER MCINNIS ENGINEERING. ALL DATA SOUTHERLY OF SAID SOUTHERLY DRAINAGE SWALE BANK WAS OBSERVED IN 2019 UNDER ABBEY ROAD GROUP. SAID ABBEY ROAD GROUP DATA MAY NOT REFLECT CURRENT CONDITIONS.
   DATES OF SURVEY: MAY 07, 2019 AND DECEMBER 13TH AND 20TH, 2024.
5. CONTOUR INTERVAL SHOWN HEREON IS AT A 1' INTERVAL.
6. THE SUBSURFACE UTILITIES OF POWER, NATURAL GAS, AND TELECOMMUNICATIONS WERE DEMARCATED BY 811 ONE CALL SERVICE IN APRIL OF 2019 AND FIELD LOCATED BY ABBEY ROAD GROUP IN MAY OF 2019. ABBEY ROAD GROUP DOES NOT WARRANT NOR CERTIFY THE ACCURACY OR COMPLETENESS OF SAID UTILITIES. NO UTILITY LOCATES WERE REQUESTED FOR THE 2024 TOPOGRAPHIC SURVEY AREA. THERE MAY EXIST UTILITIES NOT SHOWN HEREON.
7. THIS SURVEY DOES NOT RESOLVE ANY POSSIBLE UNWRITTEN RIGHTS DUE TO ADVERSE POSSESSION OR OTHER OCCUPATIONAL INDICATORS SUCH AS FENCES.
8. INVESTIGATION OF SUBSURFACE UTILITIES AS CONTRACTED BETWEEN ABBEY ROAD GROUP AND CLIENT WAS LIMITED TO 811 ONE CALL LOCATES. THERE MAY BE OTHER UTILITIES NOT DEPICTED. IF CONSTRUCTION IS TAKE PLACE WITHIN THE DEPICTED TOPOGRAPHY, ONE MUST BE CAUTIOUS AND MAY HAVE TO PERFORM ADDITIONAL RESEARCH FOR RECORD LOCATIONS OF UTILITIES IN THE AREA.
9. SEWER LATERALS AS DEPICTED WERE DERIVED THROUGH 811 UTILITY MARKING AND ABBEY ROAD GROUP DOES NOT WARRANT NOR CERTIFY THE ACCURACY OR COMPLETENESS OF SAID UTILITIES.
10. FOR A COMPLETE BOUNDARY BREAKDOWN, PLEASE REFERENCE RECORD OF SURVEY FOR BOUNDARY LINE RESOLUTION UNDER PIERCE COUNTY AUDITOR'S FILE NUMBER 201705315001

CUT AND FILL

FILL: 0 CY
CUT: 10,857CY

PLEASE NOTE THAT CUT AND FILL NUMBERS ARE ESTIMATES AND MAY NOT REFLECT THE FINAL IMPORT/EXPORT.

CALL BEFORE YOU DIG
1-800-424-5555 OR 811

McInnis ENGINEERING
mcinnisengineering.com
253.414.1992
202 East 34th Street
Tacoma, Washington 98404

2401 INTER
COVER SHEET

2401 INTER AVE SE
PUYALLUP, WA 98372

JEFFREY W. McINNIS
STATE OF WASHINGTON
37399
REGISTERED
PROFESSIONAL ENGINEER
9/17/2025

NUM	DATE	DESCRIPTION
V1	01/24/25	INITIAL RELEASE
V2	06/23/25	SECOND RELEASE

DESIGNED W. MCINNIS	SCALE 1"=30'
DRAWN W. MCINNIS	CHECKED J. MCINNIS
DATE 9/17/2025	APPROVED J. MCINNIS

JOB NO. 24-166

SHEET C1 OF C14

C1

2401 INTER
SITE PLAN

A PORTION OF THE SW 1/4 OF SECTION 26, TOWNSHIP 20 N, RANGE 4 E, W.M. PIERCE COUNTY, WA

APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE _____

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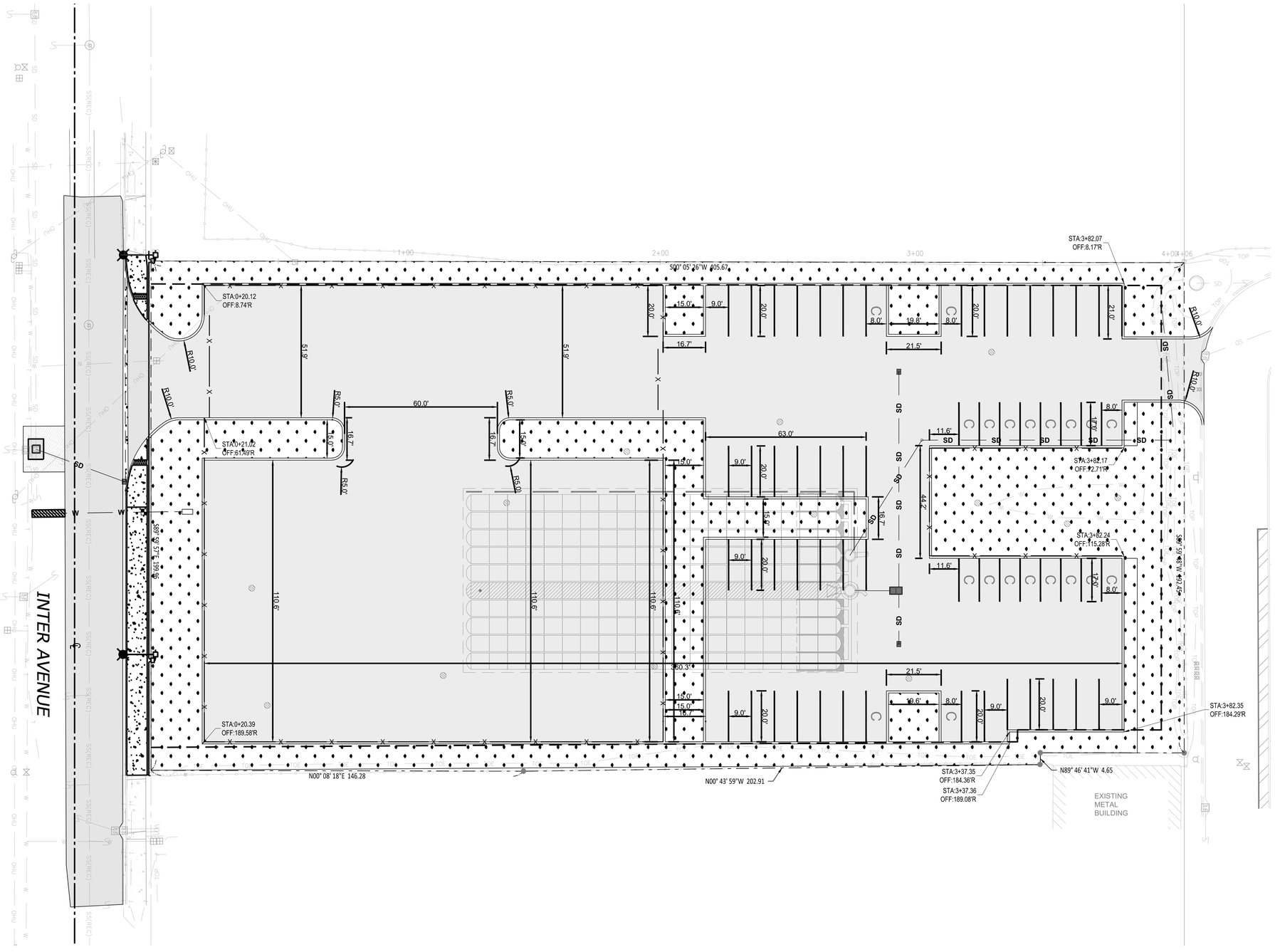

LEGEND

- PROPERTY LINE
- SETBACK
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED LANSCAPE
- PROPOSED ADS SYSTEM
- TRENCH BACKFILL
- PAVING PATCH
- SD — STORM DRAIN
- W — WATER LINE
- X — PROPOSED FENCE
- CATCH BASIN
- CLEAN OUT
- WATER METER
- DOUBLE CHECK VALVE ASSEMBLY
- 58 — PROPOSED CONTOUR LINES
- WL — WETLAND MARGIN

0 10 **20** 40

SCALE: 1" = 20'
FOR 24" X 36" SHEET
LINE IS 1" AT
FULL SCALE

CALL BEFORE YOU DIG
1-800-424-5555 OR 811

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2401 INTER
SITE PLAN

2401 INTER AVE SE
PUYALLUP, WA 98372

JEFFREY W. McINNIS
STATE OF WASHINGTON
37399
REGISTERED
PROFESSIONAL ENGINEER
9/17/2025

NUM	DATE	DESCRIPTION
V1	01/24/25	INITIAL RELEASE
V2	06/23/25	SECOND RELEASE

DESIGNED W. MCINNIS	SCALE 1"=20'
DRAWN W. MCINNIS	CHECKED J. MCINNIS
DATE 9/17/2025	APPROVED J. MCINNIS

JOB NO.
24-166

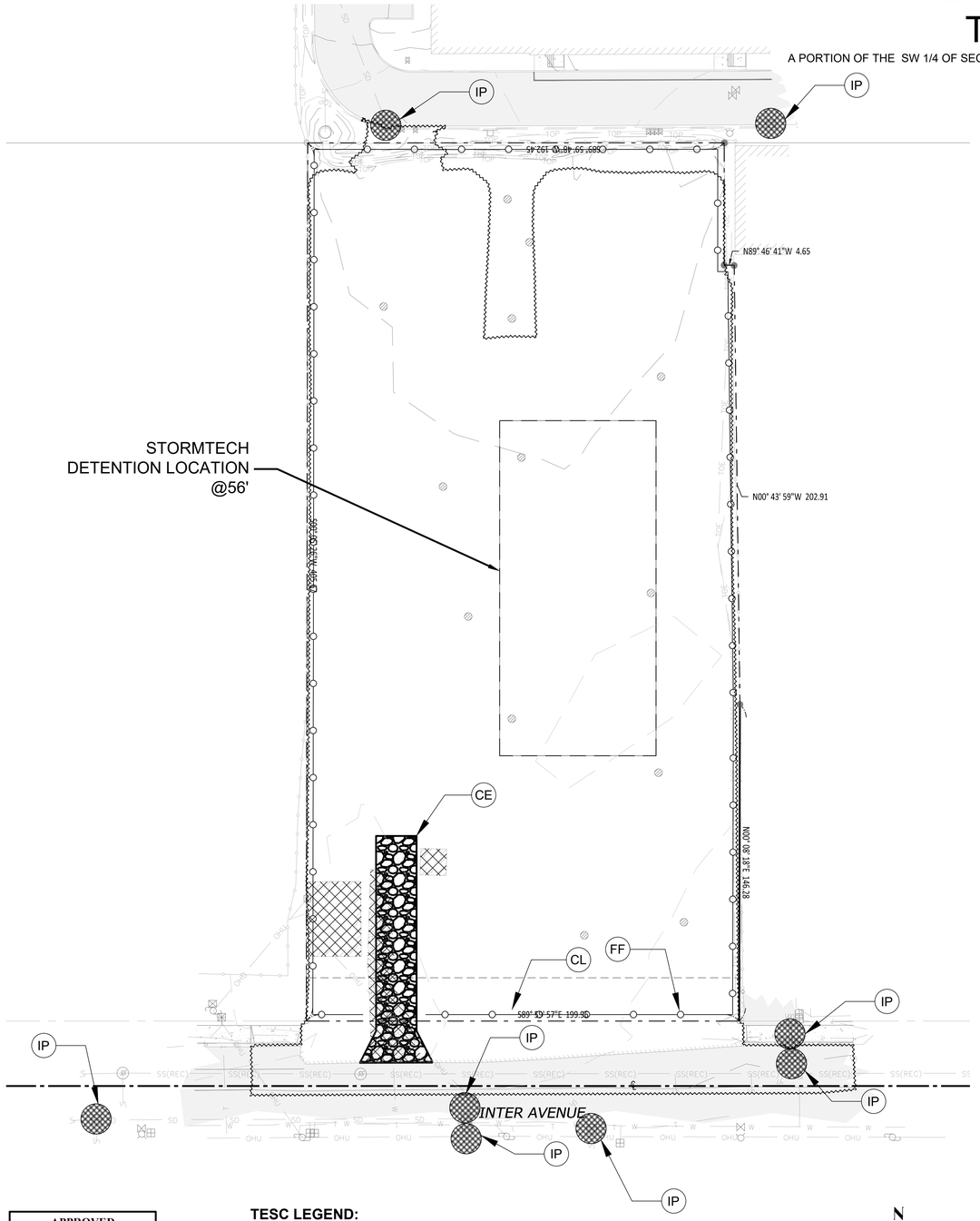
SHEET
C2 OF C14

C2

File: Z:\Shared\McInnis Engineering Files\2024 Proposals-Projects\24-166 - 2401 Inter - Redesign Project\Engineering\CAD\ME\24-166 - SDEV - 2401 INTER (2) (1)\24-166 - SDEV - 2401 INTER - C2 - SITE PLAN.dwgPlotted: 9/17/25 Plotted By: ----

2401 INTER
TESC PLAN

A PORTION OF THE SW 1/4 OF SECTION 26, TOWNSHIP 20 N, RANGE 4 E, W.M. PIERCE COUNTY, WA



TESC INSPECTION NOTES:

1. INSPECT ALL INLET PROTECTION ON CATCH BASINS. CLEAN OR REPLACE IF FULL OF SEDIMENT /DEBRIS AND REPAIR/REPLACE AS NEEDED IF DAMAGED TO MAINTAIN PROTECTION.
2. INSPECT ALL PERMANENT AND TEMPORARY STABILIZED SLOPES. REPAIR ANY DAMAGED SECTIONS AND RE-VEGETATE AS NEEDED TO ENSURE THE ESTABLISHMENT OF VEGETATION AND THAT NO EROSION OF THE SLOPES OCCUR.
3. INSPECT ALL FILTER FABRIC FENCING FOR SIGNS OF EROSION, DAMAGE OR FAILURES. REPAIR AND/OR REPLACE AS NEEDED. SEE FILTER FABRIC NOTES. SEDIMENT BUILD-UP ALONG FENCE SHALL BE REMOVED WHEN REACHES 1/3 THE FENCE HEIGHT. IF EROSION IS OCCURRING, CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS NEEDED TO PREVENT EROSION.
4. ANY FILL/CUT SLOPES SHALL BE INSPECTED FOR EROSION. IF SIGNS OF EROSION ARE PRESENT, INSTALL APPROPRIATE BMPS AS NEEDED TO STOP EROSION AND STABILIZE SLOPES.
5. TESC LEAD RESPONSIBLE FOR NOTIFYING ENGINEER IF ADDITIONAL MEASURES ARE WARRANTED.

PERMANENT STABILIZATION NOTES:

1. ALL EXPOSED SOILS AND SLOPES SHALL BE SEEDED OR OTHERWISE STABILIZED IMMEDIATELY AFTER CONSTRUCTION AND GRADING ACTIVITIES HAVE BEEN COMPLETED.
2. SILT FENCE, IF DEEMED APPROPRIATE, SHALL REMAIN FOR A MINIMUM OF 30 DAYS AFTER THE FINAL STABILIZATION OF THE SLOPES HAS OCCURRED.
3. ALL TEMPORARY EROSION CONTROL BMP'S SHALL BE REMOVED 30 DAYS AFTER FINAL STABILIZATION HAS OCCURRED AS DIRECTED BY CITY OR COUNTY INSPECTOR.
4. CONTRACTOR SHALL REFER TO THE CONSTRUCTION SWPP FOR APPLICABLE BMPS.

AMENDED SOILS NOTES:

- SOIL AMENDMENTS ARE REQUIRED FOR ALL DISTURBED AREAS IN ACCORDANCE WITH CS 01.02.0A AND DEPTH OF THE 2019 SURFACE WATER MANAGEMENT MANUAL
- AMENDED SOILS SHALL BE A MINIMUM OF 8" (NON-COMPACTED) WITH SUBSOILS SCARIFIED AT LEAST 4" WITH INCORPORATION OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYERS, WHERE FEASIBLE.
- QUALITY OF COMPOST AND OTHER MATERIALS USED TO MEET THE ORGANIC CONTENT REQUIREMENTS ARE AS FOLLOWS:

a. THE ORGANIC CONTENT FOR "PRE-APPROVED" AMENDMENT RATES CAN BE MET ONLY USING COMPOST THAT MEETS THE DEFINITION OF "COMPOSTED MATERIALS" IN WAC 173-350-220. THE WAC IS AVAILABLE ONLINE AT: HTTP://WWW.ECY.WA.GOV/PROGRAMS/SWFA/FACILITIES/350.HTML THE COMPOST MUST ALSO HAVE AN ORGANIC MATTER CONTENT OF 35% TO 65%, AND A CARBON TO NITROGEN RATIO BELOW 25:1. THE CARBON TO NITROGEN RATIO MAY BE AS HIGH AS 35: 1 FOR PLANTINGS COMPOSED ENTIRELY OF PLANTS NATIVE TO THE PUGET SOUND LOWLANDS REGION.
b. CALCULATED AMENDMENT RATES MAY BE MET THROUGH USE OF COMPOSTED MATERIALS AS DEFINED ABOVE; OR OTHER ORGANIC MATERIALS AMENDED TO MEET THE CARBON TO NITROGEN RATIO REQUIREMENTS, AND MEETING THE CONTAMINANT STANDARDS OF GRADE A COMPOST.

- USE ONE OF THE FOLLOWING OPTIONS TO MEET THE POST CONSTRUCTION SOIL QUALITY AND DEPTH REQUIREMENTS. USE THE MOST RECENT VERSION OF "GUIDELINES FOR RESOURCES FOR IMPLEMENTING SOIL QUALITY AND DEPTH BMP T5.13" TO MEET THE REQUIREMENTS OF THIS BMP. THIS GUIDANCE CAN BE FOUND ONLINE AT:WWW.SOILSFORSALMON.ORG

a. LEAVE NATIVE VEGETATION AND SOIL UNDISTURBED, AND PROTECT FROM COMPACTION DURING CONSTRUCTION
b. AMEND EXISTING SITE TOPSOIL OR SUBSOIL EITHER AT DEFAULT "PRE-APPROVED" RATES, OR AT CUSTOM CALCULATED RA TES BASED ON SPECIFIC TESTS OF THE SOIL AND AMENDMENT
c. STOCKPILE EXISTING TOPSOIL DURING GRADING, AND REPLACE IT PRIOR TO PLANTING. STOCKPILED TOPSOIL MUST ALSO BE AMENDED IF NEEDED TO MEET THE ORGANIC MATTER OR DEPTH REQUIREMENTS, EITHER AT A DEFAULT "PRE-APPROVED" RATE OR AT A CUSTOM CALCULATED RATE.
d. IMPORT TOPSOIL MIX OF SUFFICIENT ORGANIC CONTENT AND DEPTH TO MEET THE REQUIREMENTS. MORE THAN ONE METHOD MAY BE USED ON DIFFERENT PORTIONS OF THE SAME SITE. SOIL THAT ALREADY MEETS THE DEPTH AND ORGANIC MATTER QUALITY STANDARDS, AND IS NOT COMPACTED, DOES NOT NEED TO BE AMENDED.

- AMENDED SOILS SHALL BE MAINTAINED AS FOLLOWS:

a. SOIL QUALITY AND DEPTH SHOULD BE ESTABLISHED TOWARD THE END OF CONSTRUCTION AND ONCE ESTABLISHED, SHOULD BE PROTECTED FROM COMPACTION, SUCH AS FROM LARGE MACHINERY USE, AND FROM EROSION.
b. SOIL SHOULD BE PLANTED AND MULCHED AFTER INSTALLATION.
c. PLANT DEBRIS OR ITS EQUIVALENT SHOULD BE LEFT ON THE SOIL SURFACE TO REPLENISH ORGANIC MA TIER.
d. IT SHOULD BE POSSIBLE TO REDUCE USE OF IRRIGATION, FERTILIZERS, HERBICIDES AND PESTICIDES. THESE ACTIVITIES SHOULD BE ADJUSTED WHERE POSSIBLE,RATHER THAN CONTINUING TO IMPLEMENT FORMERLY ESTABLISHED PRACTICES.

- SEE PROJECT CONSTRUCTION SWPPP FOR ADDITIONAL INFORMATION OR SECTION 2.2.1.4 OF CHAPTER 2 OF VOLUME 6 OF THE 2021 SURFACE WATER MANAGEMENT MANUAL

MULCHING NOTES:

1. MULCH MATERIALS USED SHALL BE STRAW OR HAY, AND SHALL BE APPLIED AT THE RATE OF 75-100 POUNDS PER 1000 SQ. FT. (APPX 2" THICK).
2. MULCH SHALL BE APPLIED IN ALL AREAS WITH EXPOSED SLOPES GREATER THAN 2: 1.
3. MULCHING SHALL BE USED IMMEDIATELY AFTER SEEDING OR IN AREAS WHICH CANNOT BE SEEDED BECAUSE OF THE SEASON.
4. ALL AREAS NEEDING MULCH SHALL BE COVERED BY NOVEMBER 1.

CONTRACTOR NOTES:

1. INLET PROTECTION SHALL BE INSTALLED IN ALL NEWLY CONSTRUCTED CATCH BASINS AND ALONG ALL IMPACTED FRONTAGE AND OFFSITE AREAS PER THE REQUIREMENTS OF THE CITY INSPECTOR PER DETAIL 3 ON THIS SHEET.
2. CONSTRUCTION FENCE CAN BE UTILIZED IN PLACE OF FILTER FABRIC FENCE ONLY IN AREAS WHERE THE GRADES DO NOT ALLOW THE POTENTIAL FOR ANY STORMWATER TO LEAVE THE SITE.
3. ALL DEMOLISHED MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT A CITY APPROVED LOCATION AND IN A MANNER CONSISTENT WITH CURRENT REGULATIONS AND REQUIREMENTS.
4. ALL AREAS THAT WILL BE UNWORKED FOR MORE THAN SEVEN (7) DAYS DURING THE DRY SEASON OR TWO (2) DAYS DURING THE WET SEASON, SHALL BE COVERED WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, OR OTHER EQUIVALENT PER CURRENT CITY OR COUNTY STANDARDS. SEE SEEDING NOTES AND MULCHING NOTES ON THIS SHEET.
5. CONTRACTOR SHALL DESIGNATE A WASHINGTON DEPT OF ECOLOGY CERTIFIED EROSION CONTROL LEAD PERSON, AND SHALL COMPLY WITH THE CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THE PROJECT.
6. AT ANY TIME DURING CONSTRUCTION IT IS DETERMINED BY THE CITY OR COUNTY THAT MUD AND DEBRIS ARE BEING TRACKED ONTO PUBLIC STREETS WITH INSUFFICIENT CLEANUP, ALL WORK SHALL CEASE ON THE PROJECT UNTIL THIS CONDITION IS CORRECTED. THE CONTRACTOR AND/OR THE OWNER SHALL IMMEDIATELY TAKE ALL STEPS NECESSARY TO PREVENT FUTURE TRACKING OF MUD AND DEBRIS INTO THE PUBLIC ROW, WHICH MAY INCLUDE THE INSTALLATION OF A WHEEL WASH FACILITY ON-SITE.
7. SEDIMENT LADEN RUNOFF SHALL NOT BE ALLOWED TO DISCHARGE BEYOND THE LIMITS OF THE IMPROVEMENTS. ADDITIONAL MEASURES SHALL BE INSTALLED AS NEEDED.
8. SAND BAGS SHALL BE SECURELY PLACED AROUND INSTALLED CATCH BASINS WITH INLET PROTECTION AS FIELD AND WEATHER CONDITIONS WARRANT SO TO PROTECT ALL DISPERSION AND INFILTRATION TRENCHES SEDIMENT LADEN RUNOFF.
9. TREES WITHIN WORKING LIMITS TO BE SAVED, SHALL BE MARKED AS SUCH ON SITE AND PROTECTION FENCE PLACED AROUND EACH TREE.

SEEDING NOTES:

1. THE FOLLOWING SEED MIXTURE SHALL BE AS BELOW AND SHALL BE APPLIED AT THE RATE RECOMMENDED BY THE SUPPLIER.

TABLE D.3.2.B TEMPORARY EROSION CONTROL SEED MIX

	% WEIGHT	% PURITY	% GERMINATION
CHEWINGS OR RED FESCUE FESTUCA *RUBRA VAR. COMMUTATA OR FESTUCA RUBRA*	40	98	90
ANNUAL OR PERENNIAL RYE *LOLIUM MULTIFLORUM OR LOLIUM PERENNE*	40	98	90
REDTOP OR COLONIAL BENTGRASS *AGROSTIS ALBA OR AGROSTIS TENUIS*	10	92	85
WHITE DUTCH CLOVER *TRIFOLIUM REPENS*	10	98	90

2. SEED BEDS PLANTED BETWEEN MAY 1 AND OCTOBER 31 WILL REQUIRE IRRIGATION AND OTHER MAINTENANCE AS NECESSARY TO FOSTER AND PROTECT THE ROOT STRUCTURE.
3. FOR SEED BEDS PLANTED BETWEEN OCTOBER 31 AND APRIL 30, ARMORING OF THE SEED BED WILL BE NECESSARY. (E.G., GEOTEXTILES, JUTE MAT, CLEAR PLASTIC COVERING).
4. BEFORE SEEDING, INSTALL NEEDED SURFACE RUNOFF CONTROL MEASURES SUCH AS GRADIENT TERRACES, INTERCEPTOR DIKES, SWALES, LEVEL SPREADERS AND SEDIMENT BASINS.
5. THE SEEDBED SHALL BE FIRM WITH A FAIRLY FINE SURFACE, FOLLOWING SURFACE ROUGHENING. PERFORM ALL OPERATIONS ACROSS OR AT RIGHT ANGLES TO THE SLOPE.
6. FERTILIZERS ARE TO BE USED ACCORDING TO SUPPLIER'S RECOMMENDATIONS. AMOUNTS USED SHOULD BE MINIMIZED, ESPECIALLY ADJACENT TO WATER BODIES AND WETLANDS.

CALL BEFORE YOU DIG
1-800-424-5555 OR 811

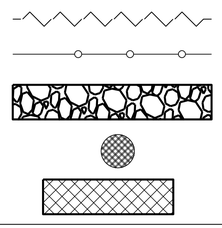
APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

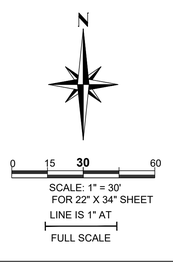
DATE _____

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

TESC LEGEND:



- CL — CLEARING/ GRADING/ DISTURBED LIMITS
- FF — FILTER FABRIC FENCE SEE DETAIL (1 / C4)
- CE — CONSTRUCTION ENTRANCE (3 / C4)
- IP — INLET PROTECTION (4 / C4)
- DR — DEMO AND REMOVE



SCALE: 1" = 30'
FOR 22" X 34" SHEET
LINE IS 1" AT
FULL SCALE

McInnis ENGINEERING
mcinnisengineering.com
253.414.1992
202 East 34th Street
Tacoma, Washington 98404

2401 INTER
TESC PLAN

2401 INTER AVE SE
PUYALLUP, WA 98372

JEFFREY W. McINNIS — STATE OF WASHINGTON — 37399 — REGISTERED PROFESSIONAL ENGINEER — 9/17/2025

NUM	DATE	DESCRIPTION
V1	01/24/25	INITIAL RELEASE
V2	06/23/25	SECOND RELEASE

DESIGNED W. MCINNIS	SCALE 1"=30'
DRAWN W. MCINNIS	CHECKED J. MCINNIS
DATE 9/17/2025	APPROVED J. MCINNIS

JOB NO. 24-166

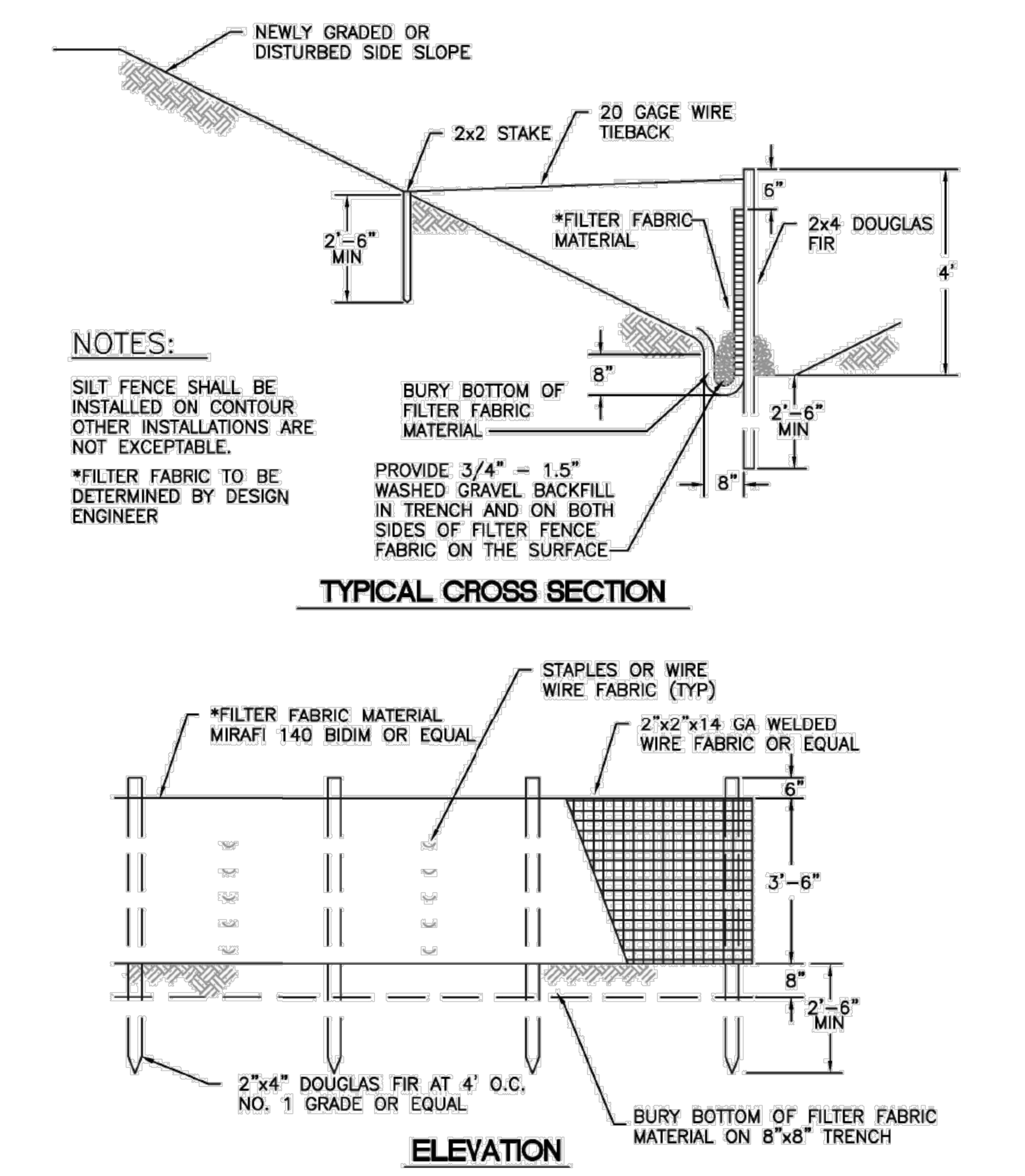
SHEET C3 OF C14

C3

2401 INTER

TESC NOTES AND DETAILS

A PORTION OF THE SW 1/4 OF SECTION 26, TOWNSHIP 20 N, RANGE 4 E, W.M. PIERCE COUNTY, WA



CITY OF PUYALLUP — DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

SILTATION FENCE — CITY STANDARD 02.03.02

1 SILTATION FENCE
SCALE:NTS

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.

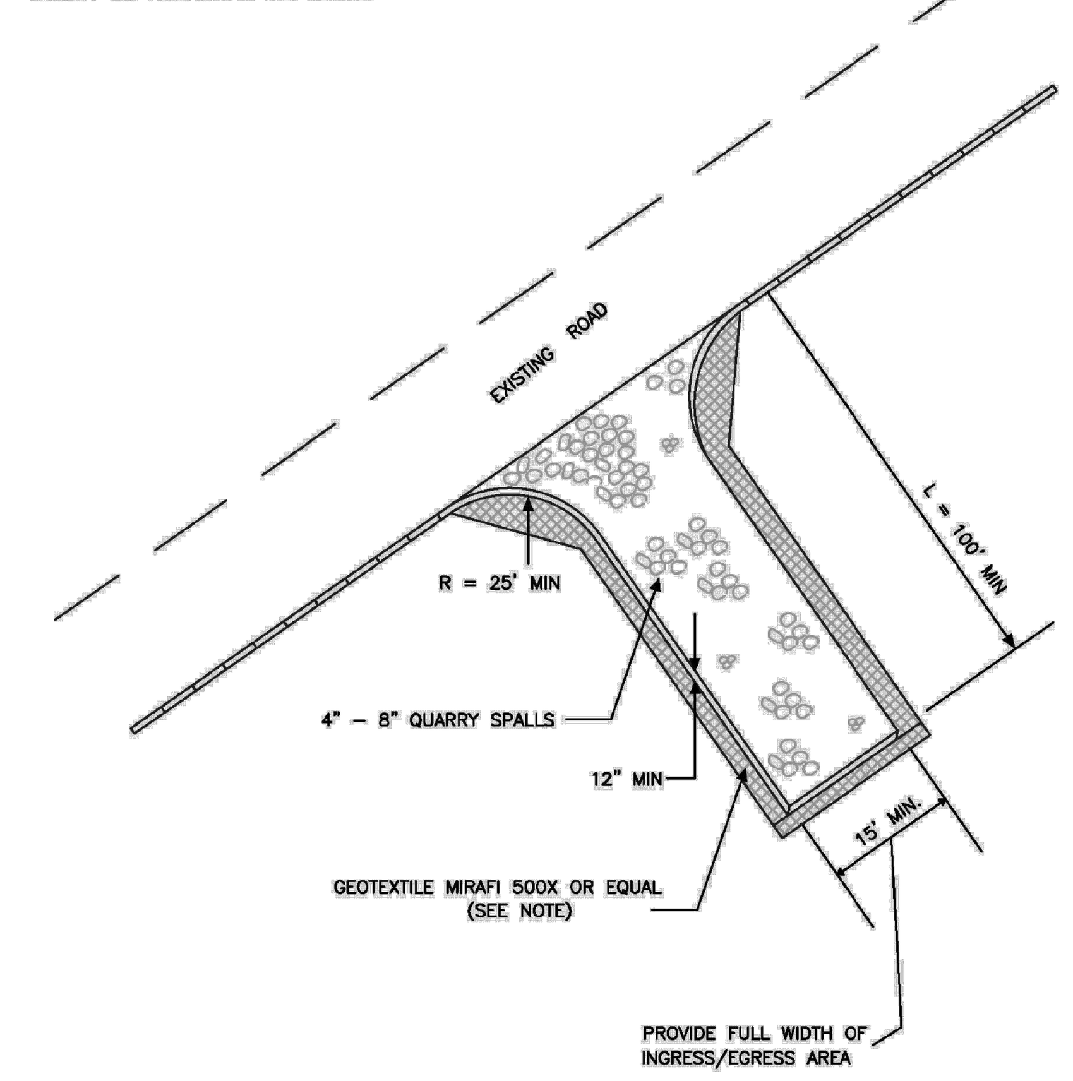
CITY OF PUYALLUP — DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

GRADING, EROSION, AND SEDIMENTATION CONTROL NOTES — CITY STANDARD 05.02.01

2 GRADING, EROSION, AND SEDIMENTATION CONTROL NOTES
SCALE:NTS

NOTE:

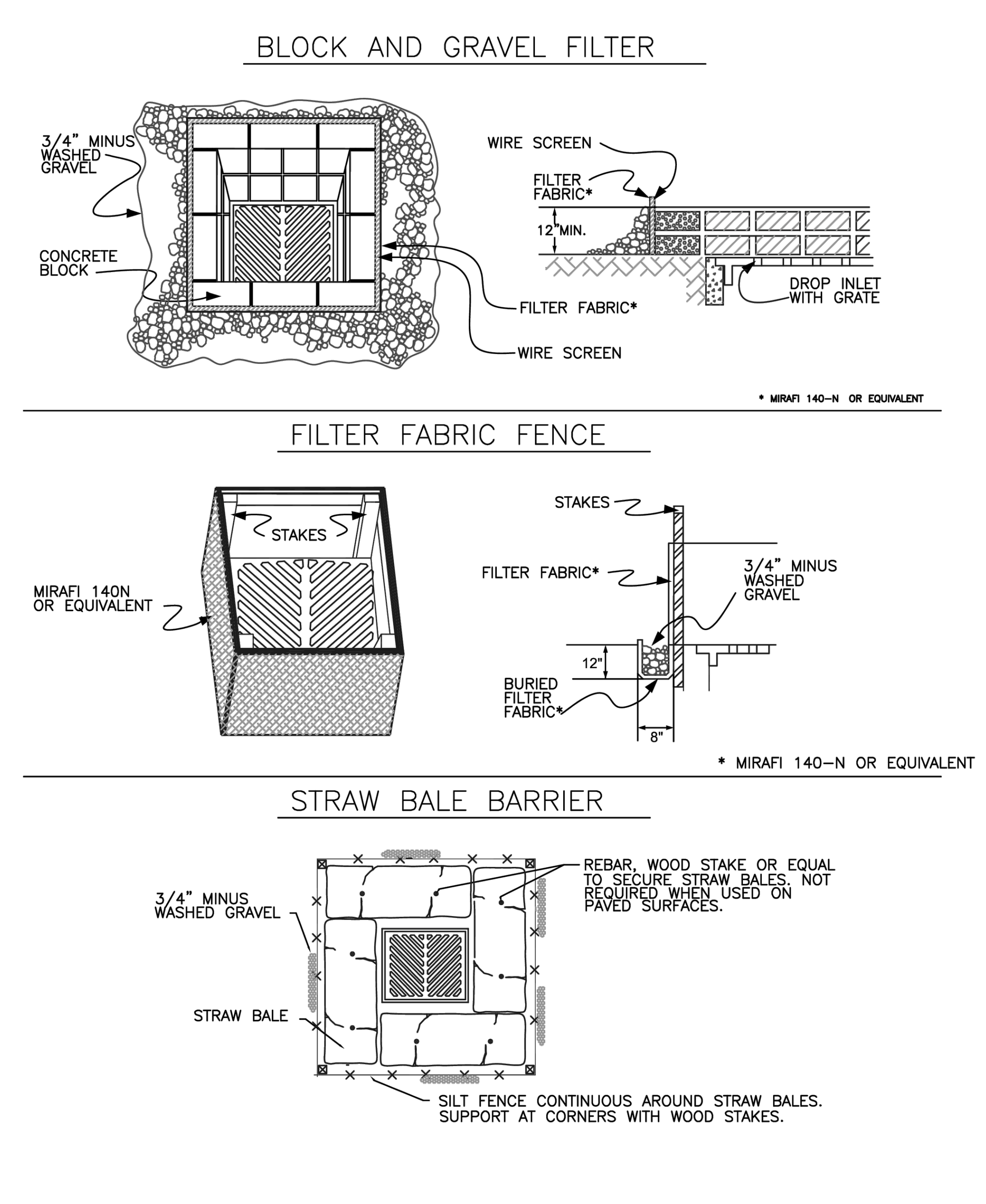
1. GEOTEXTILE MIRAFI 500 X OR APPROVED EQUAL SHALL BE PLACED UNDER THE ENTIRETY OF THE TEMPORARY ENTRANCE.
2. ADDITIONAL ROCK SHALL BE ADDED PERIODICALLY TO MAINTAIN PROPER FUNCTION OF THE PAD.
3. IF THE PAD DOES NOT ADEQUATELY REMOVE THE MUD FROM THE VEHICLE'S WHEELS, THE WHEELS SHALL BE HOSED OFF BEFORE 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 — CITY STANDARD 05.01.01

3 TEMPORARY CONSTRUCTION ENTRANCE
SCALE:NTS



CITY OF PUYALLUP — DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

STORM DRAIN BARRIERS — CITY STANDARD 02.03.05

4 STORM DRAINAGE BARRIERS
SCALE:NTS

CONDITIONS WHERE PRACTICE APPLIES

1. BLOCK AND GRAVEL FILTER – APPLICABLE FOR AREAS GREATER THAN 5% SLOPE.
2. FILTER FABRIC FENCE – APPLICABLE WHERE THE INLET DRAINS A RELATIVELY SMALL (ONE ACRE OR LESS) AND FLAT AREA (LESS THAN 5% SLOPE).
3. STRAW BALE BARRIER – APPLICABLE WHERE INLET DRAINS A RELATIVELY FLAT DISTURBED AREA (LESS THAN 5% SLOPE) IN WHICH SHEET FLOW (NOT EXCEEDING 0.5 FT/SEC.) OCCURES. BARRIERS OF THIS TYPE SHOULD NOT BE PLACED AROUND INLETS RECEIVING CONCENTRATED FLOWS SUCH AS THOSE ALONG MAJOR STREETS AND HIGHWAYS.

1. BLOCK AND GRAVEL FILTER – INSTALLATION PROCEDURE

A: PLACE WIRE MESH OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF ONE FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. USE WIRE SCREEN WITH 1/2-INCH OPENINGS. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, OVERLAP THE STRIPS. PLACE FILTER FABRIC* OVER WIRE MESH.

B: PLACE CONCRETE BLOCKS LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET, SO THAT THE OPEN ENDS FACE OUTWARD, NOT UPWARD. THE ENDS OF ADJACENT BLOCKS SHOULD ABUT. THE HIEGHT OF THE BARRIER CAN BE VARIED, DEPENDING ON DESIGN NEEDS, BY STACKING COMBINATIONS OF BLOCKS THAT ARE 4-INCH, 8-INCH AND 12-INCH WIDE. THE ROW OF BLOCKS SHOULD BE AT LEAST 12-INCHES BUT NO GREATER THAN 24-INCHES HIGH.

C: PLACE WIRE SCREEN OVER THE OVERSIDE VERTICAL FACE (OPEN END) OF THE CONCRETE BLOCKS TO PREVENT STONES FROM BEING WASHED THROUGH THE BLOCKS. USE WIRE SCREEN WITH 1/2-INCH OPENINGS.

D: PILE STONES AGAINST THE WIRE MESH TO THE TOP OF THE BLOCKS. USE 3/4" MINUS WASHED GRAVEL.

2. FILTER FABRIC FENCE – INSTALLATION PROCEDURE

A: PLACE 2-INCH BY 2-INCH WOODEN STAKES AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3 FEET APART AND DRIVE THEM AT LEAST 8-INCHES INTO THE GROUND. THE STAKES MUST BE AT LEAST 3 FEET LONG.

B: EXCAVATE A TRENCH APPROXIMATELY 8-INCHES WIDE AND 12-INCHES DEEP AROUND THE OUTSIDE PERIMETER OF THE STAKES.

C: STAPLE THE FILTER FABRIC* TO THE WOODEN STAKES SO THAT 32-INCHES OF THE FABRIC EXTENDS AND CAN BE FORMED INTO THE TRENCH, AND USE HEAVY-DUTY WIRE STAPLES AT LEAST 1/2-INCHES LONG.

D: BACKFILL THE TRENCH WITH 3/4-INCH MINUS WASHED GRAVEL ALL THE WAY AROUND.

3. STRAW BALE BARRIER – INSTALLATION PROCEDURE

A: EXCAVATE A 4-INCH DEEP TRENCH AROUND THE INLET. MAKE THE TRENCH AS WIDE AS A STRAW BALE.

B: ORIENT STRAW BALES WITH THE BINDINGS AROUND THE SIDES OF THE BALES RATHER THAN OVER AND UNDER THE BALES.

C: PLACE BALES LENGTHWISE AROUND THE INLET AND PRESS THE ENDS OF ADJACENT BALES SECURELY IN PLACE.

D: DRIVE TWO 2-INCH BY 2-INCH STAKES THROUGH EACH BALE TO ANCHOR THE BALE SECURELY IN PLACE.

E: BACKFILL THE EXCAVATED SOIL AND COMPACT IT AGAINST THE BALE.

F: WEDGE LOOSE STRAW BETWEEN BALES TO PREVENT WATER FROM FLOWING BETWEEN BALES.

* MIRAFI 140-N OR EQUIVALENT

CITY OF PUYALLUP — DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

STORM DRAIN BARRIERS NOTES — DRAWN BY LINDA LANSING; CHECKED BY LINDA LIAN; APPROVED BY COLLEEN HARRIS; REVISED BY XXXX — CITY STANDARD 02.03.06

5 STORM DRAINAGE BARRIERS NOTES
SCALE:NTS

GRADING, EROSION, AND SEDIMENTATION CONTROL 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 (HERINAFTER 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 ENGINEER 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 HOURS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.

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 ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF REPRESENTATIVES OF INVOLVED UTILITIES AND THE CITY OF PUYALLUP. CONTACT THE ENGINEERING SERVICES TO SCHEDULE THE MEETING (253-841-5568). THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN 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 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 STANDARD DETAILS.
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, 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 AT (360)407-6300.
15. ANY DISTURBANCE OR DAMAGE TO CRITICAL AREAS AND ASSOCIATED BUFFERS, OR SIGNIFICANT TREES FOR PRESERVATION AND PROTECTION SHALL BE MITIGATED IN ACCORDANCE WITH A MITIGATION PLAN REVIEWED AND APPROVED BY THE CITY%%146S PLANNING DIVISION. PREPARATION AND IMPLEMENTATION OF THE MITIGATION PLAN SHALL BE AT THE DEVELOPER'S EXPENSE.
16. NO SURVEY MONUMENT SHALL BE REMOVED OR DESTROYED (THE PHYSICAL DISTURBANCE OR COVERING OF A MONUMENT SUCH THAT THE SURVEY POINT IS NO LONGER VISABLE OR READILY ACCESSIBLE) BEFORE A PERMIT IS OBTAINED FROM THE DEPARTMENT OF NATURAL RESOURCES (DNR).WAC 332-120-030(2) STATES "IT SHALL BE THE RESPONSIBILITY OF <THOSE> PERFORMING CONSTRUCTION WORK OR OTHER ACTIVITY (INCLUDING ROAD AND STREET RESURFACING PROJECTS TO ADEQUATELY SEARCH THE RECORDS AND THE PHYSICAL AREA OF THE PROPOSED CONSTRUCTION WORK OR OTHER ACTIVITY FOR THE PURPOSE OF LOCATING AND REFERENCING ANY KNOWN OR EXISTING SURVEY MONUMENTS" CONSTRUCTION SHALL NOT COMMENCE UNTIL WAC OUTLINED IN CHAPTER 332-120 IS COMPLIED WITH. SURVEY MONUMENTS SUBJECT TO WAC 332-120-030(2) INCLUDE LOCAL CONTROL POINTS AND LAND BOUNDARY SURVEY CORNERS.
17. EXPOSED SOILS WITH AN AREA GREATER THAN 5,000 SQUARE FEET THAT ARE SCHEDULED TO REMAIN UNWORKED FOR MORE THAN 24 HOURS AND EXPOSED AREAS OF LESS THAN 5,000 SQUARE FEET THAT WILL REMAIN UNWORKED FOR MORE THAN SEVEN (7) DAYS SHALL BE STABILIZED IMMEDIATELY.

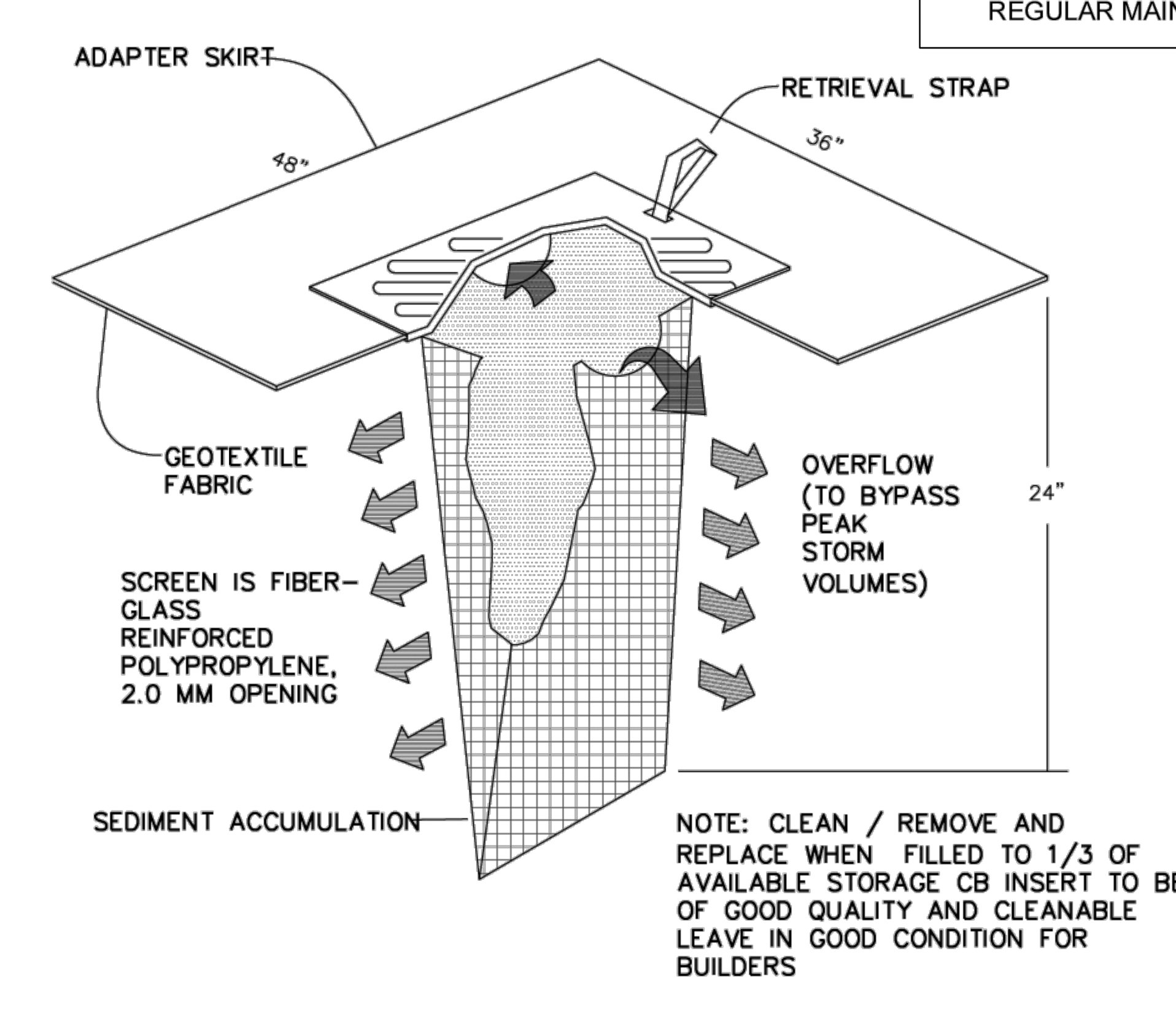
SEDIMENTATION NOTE

AT ANY TIME DURING CONSTRUCTION IT IS DETERMINED BY THE CITY THAT MUD AND DEBRIS ARE BEING TRACKED ONTO PUBLIC STREETS WITH INSUFFICIENT CLEANUP, ALL WORK SHALL CEASE ON THE PROJECT UNTIL THIS CONDITION IS CORRECTED. THE CONTRACTOR AND/OR THE OWNER SHALL IMMEDIATELY TAKE ALL STEPS NECESSARY TO PREVENT FUTURE TRACKING OF MUD AND DEBRIS INTO THE PUBLIC ROW, WHICH MAY INCLUDE THE INSTALLATION OF A WHEEL WASH FACILITY ON-SITE.

SEDIMENT LADEN RUNOFF SHALL NOT BE ALLOWED TO DISCHARGE BEYOND THE CONSTRUCTION LIMITS IN ACCORDANCE WITH CITY REGULATIONS.

CONSTRUCTION SEQUENCE

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 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.



DETAIL CBI-1
CATCH BASIN INSERT FOR TRASH & DEBRIS

6 CATCH BASIN INSERT
SCALE:NTS

CALL BEFORE YOU DIG
1-800-424-5555 OR 811

APPROVED

BY ____________ CITY OF PUYALLUP DEVELOPMENT ENGINEERING

DATE ____________

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

McInnis ENGINEERING
mcinnisengineering.com
253.414.1992
202 East 34th Street
Tacoma, Washington 98404

2401 INTER
TESC NOTES AND DETAILS
2401 INTER AVE SE
PUYALLUP, WA 98372

JEFFREY W. McINNIS — STATE OF WASHINGTON — 37390 — REGISTERED PROFESSIONAL ENGINEER — 8/22/2025

NUM	DATE	DESCRIPTION
V1	01/24/25	INITIAL RELEASE
V2	06/23/25	SECOND RELEASE

DESIGNED W. MCINNIS	SCALE N.T.S.
DRAWN W. MCINNIS	CHECKED J. MCINNIS
DATE 9/17/2025	APPROVED J. MCINNIS

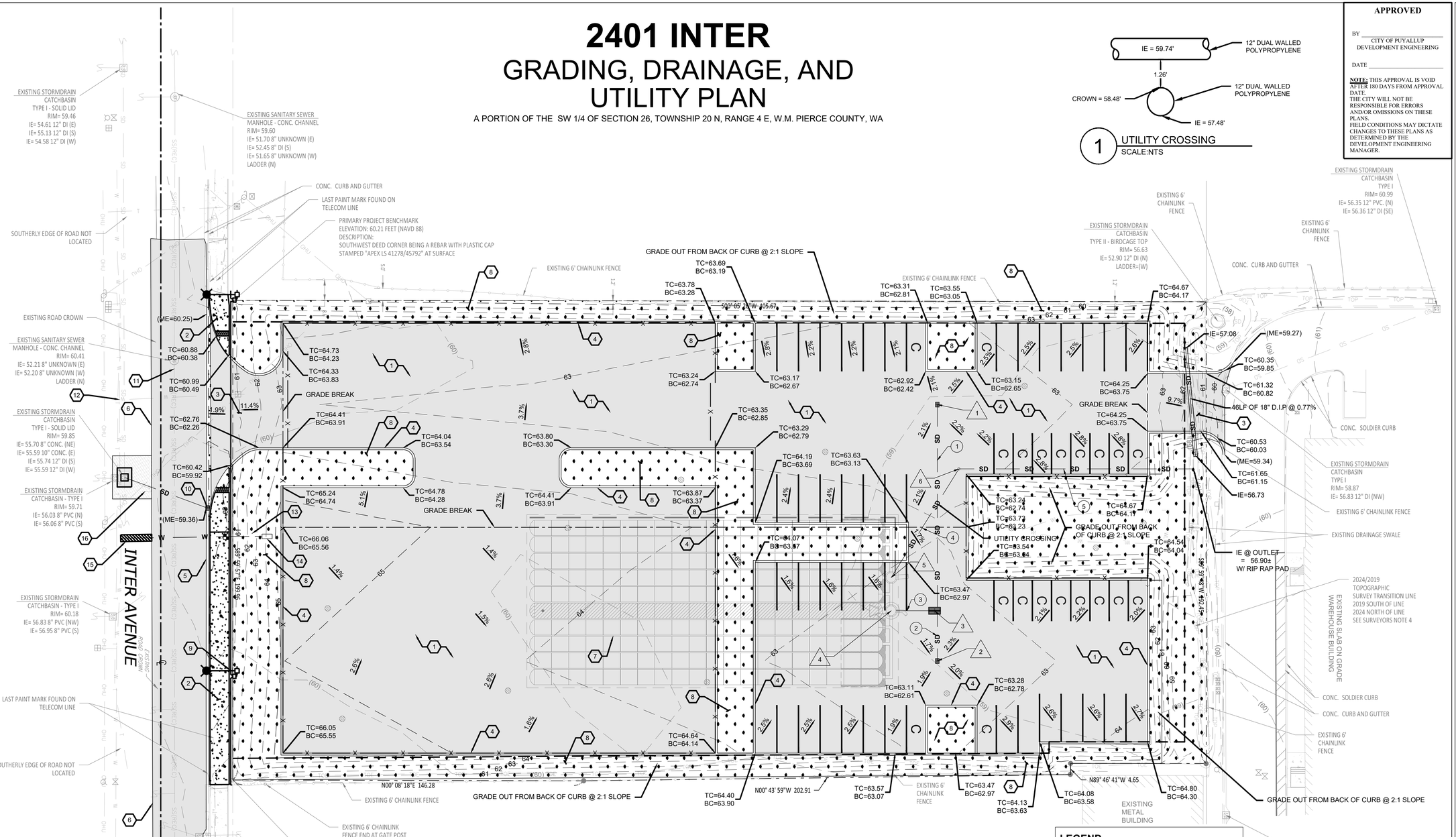
JOB NO. 24-166

SHEET C4 OF C14

C4

2401 INTER
GRADING, DRAINAGE, AND UTILITY PLAN

A PORTION OF THE SW 1/4 OF SECTION 26, TOWNSHIP 20 N, RANGE 4 E, W.M. PIERCE COUNTY, WA



1 UTILITY CROSSING
SCALE:NTS

APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

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STORM DRAIN PIPE SECTIONS

- (#) EACH PIPE SECTION IS NUMBERED IN A BUBBLE AND THE ASSOCIATED LENGTHS AND SLOPES ARE PROVIDED BELOW
- (1) 85 LF 12" DUAL WALLED POLYPROPYLENE @ 0.5% SLOPE
- (2) 20 LF 12" DUAL WALLED POLYPROPYLENE @ 0.5% SLOPE
- (3) 13 LF 12" DUAL WALLED POLYPROPYLENE @ 0.5% SLOPE
- (4) 53 LF 12" DUAL WALLED POLYPROPYLENE @ 0.5% SLOPE
- (5) 99 LF 12" DUAL WALLED POLYPROPYLENE @ 0.5% SLOPE
- (6) 37 LF 12" DUAL WALLED POLYPROPYLENE @ 0.5% SLOPE

STORM STRUCTURE DETAILS:

- (#) EACH STORM STRUCTURE IS NUMBERED IN A TRIANGLE BUBBLE AND THE ASSOCIATED INVERTS AND RIM ELEVATIONS ARE PROVIDED BELOW
- (1) TYPE 1 CATCH BASIN RIM = 62.11 IE 12" E = 59.98 — 6/C9
- (2) TYPE 1 CATCH BASIN RIM = 62.28 IE 12" W = 58.32 — 6/C9
- (3) CONTECH WATER QUALITY SYSTEM RIM = 62.51 IE 12" W = 59.55 IE 12" E = 58.22 IE 12" S = 57.72 — 4-5-6/C13
- (4) MANHOLE RIM = 62.77 IE 12" NE = 57.66 — 3/C9
- (5) FLOW CONTROL MANHOLE RIM = 62.96 IE 12" NE = 57.66 — 4-5/C9
- (6) CLEAN OUT RIM = 62.68 IE 12" = 57.39 — 7/C9

KEYNOTES

1. PROPOSED ASPHALT PAVEMENT — 8/C8
2. PROPOSED CONCRETE PAVEMENT PER FRONTAGE IMPROVEMENT PLAN SEE SHEET C6
3. PROPOSED MINOR DRIVEWAY APPROACH — 6/C8
4. PROPOSED EXTRUDED CURB — 8/C10
5. PROPOSED CURB AND GUTTER PER FRONTAGE IMPROVEMENT PLAN SEE SHEET C6
6. PROPOSED SAW CUT AND ASPHALT RESTORATION PER FRONTAGE IMPROVEMENT PLAN SEE SHEET C6
7. PROPOSED STORM TECH SYSTEM — 1-4/C11, 1-2/C12
8. PROPOSED LANDSCAPE — 3/C12
9. PROPOSED STREET LIGHTING PER STREET LIGHTING PLAN SEE SHEET C7
10. PROPOSED TYPE 1 CATCH BASIN PER FRONTAGE IMPROVEMENT PLAN SEE SHEET C6
11. EXISTING SANITARY LATERAL TAP TO BE CUT AND CAPPED AT THE MAIN LINE
12. REMOVE THE CORPORATON STOP ON THE WATER MAIN AND INSTALL A BRASE PLUG
13. PROPOSED 1" WATER SERVICE CONNECTION — 1/C13
14. PROPOSED 2" AND SMALLER DOUBLE CHECK VALVE ASSEMBLY INSTALLATION — 2/C13
15. PROPOSED TRENCH BACKFILL — 2/C8
16. PROPOSED PAVING PATCH — 1/C8

LEGEND

- PROPERTY LINE
- SETBACK
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED LANSCAPE
- PROPOSED ADS SYSTEM
- TRENCH BACKFILL
- PAVING PATCH
- SD — STORM DRAIN
- W — WATER LINE
- X — PROPOSED FENCE
- CATCH BASIN
- CLEAN OUT
- WATER METER
- DOUBLE CHECK VALVE ASSEMBLY
- 58 — PROPOSED CONTOUR LINES

SCALE: 1" = 20'
FOR 24" X 36" SHEET
LINE IS 1" AT
FULL SCALE

CALL BEFORE YOU DIG 1-800-424-5555 OR 811

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202 East 34th Street
Tacoma, Washington 98404

2401 INTER GRADING, DRAINAGE, AND UTILITY PLAN

2401 INTER AVE SE PUYALLUP, WA 98372

JEFFREY W. MCINNIS — STATE OF WASHINGTON — 37799 — REGISTERED PROFESSIONAL ENGINEER
9/17/2025

NUM	DATE	DESCRIPTION
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V2	06/23/25	SECOND RELEASE

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DRAWN W. MCINNIS	CHECKED J. MCINNIS
DATE 9/17/2025	APPROVED J. MCINNIS

JOB NO. 24-166

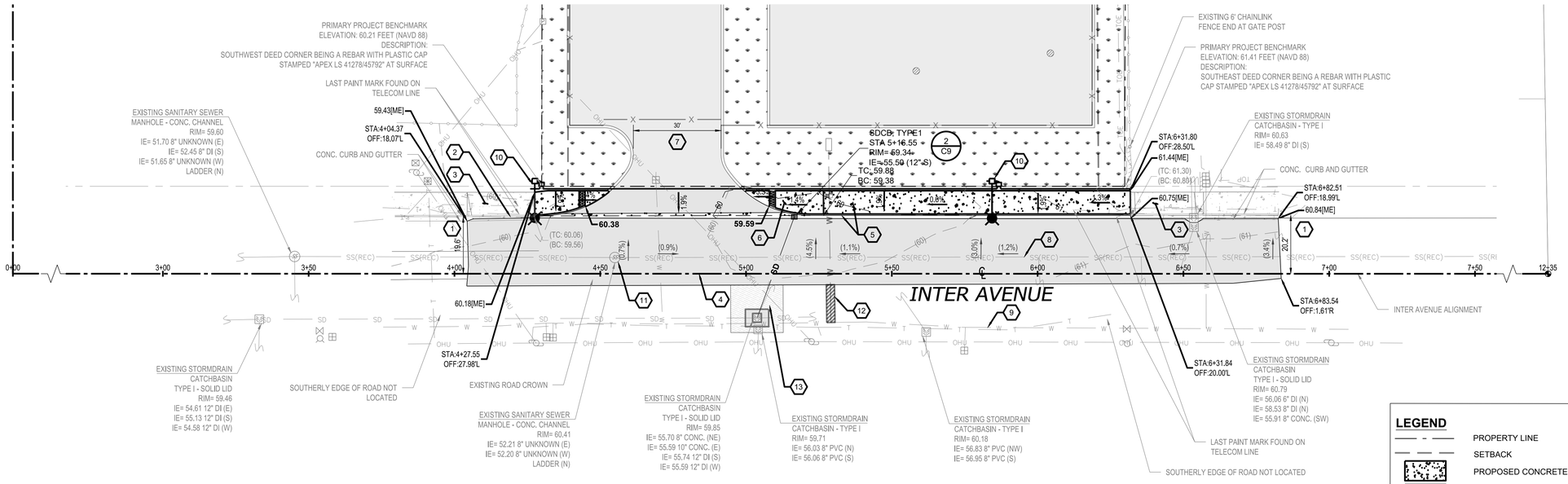
SHEET C5 OF C14

C5

File: Z:\Shared\McInnis Engineering Files\2024 Proposals-Projects\24-166 - 2401 Inter - Redesign Project\Engineering\CADIME\24-166 - SDEV - 2401 INTER (2) (1)\24-166 - SDEV - 2401 INTER - C5 - GRADING PLAN.dwg Printed: 9/17/25 Plotted By: ----

2401 INTER
FRONTAGE IMPROVEMENT PLAN

A PORTION OF THE SW 1/4 OF SECTION 26, TOWNSHIP 20 N, RANGE 4 E, W.M. PIERCE COUNTY, WA



APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE _____

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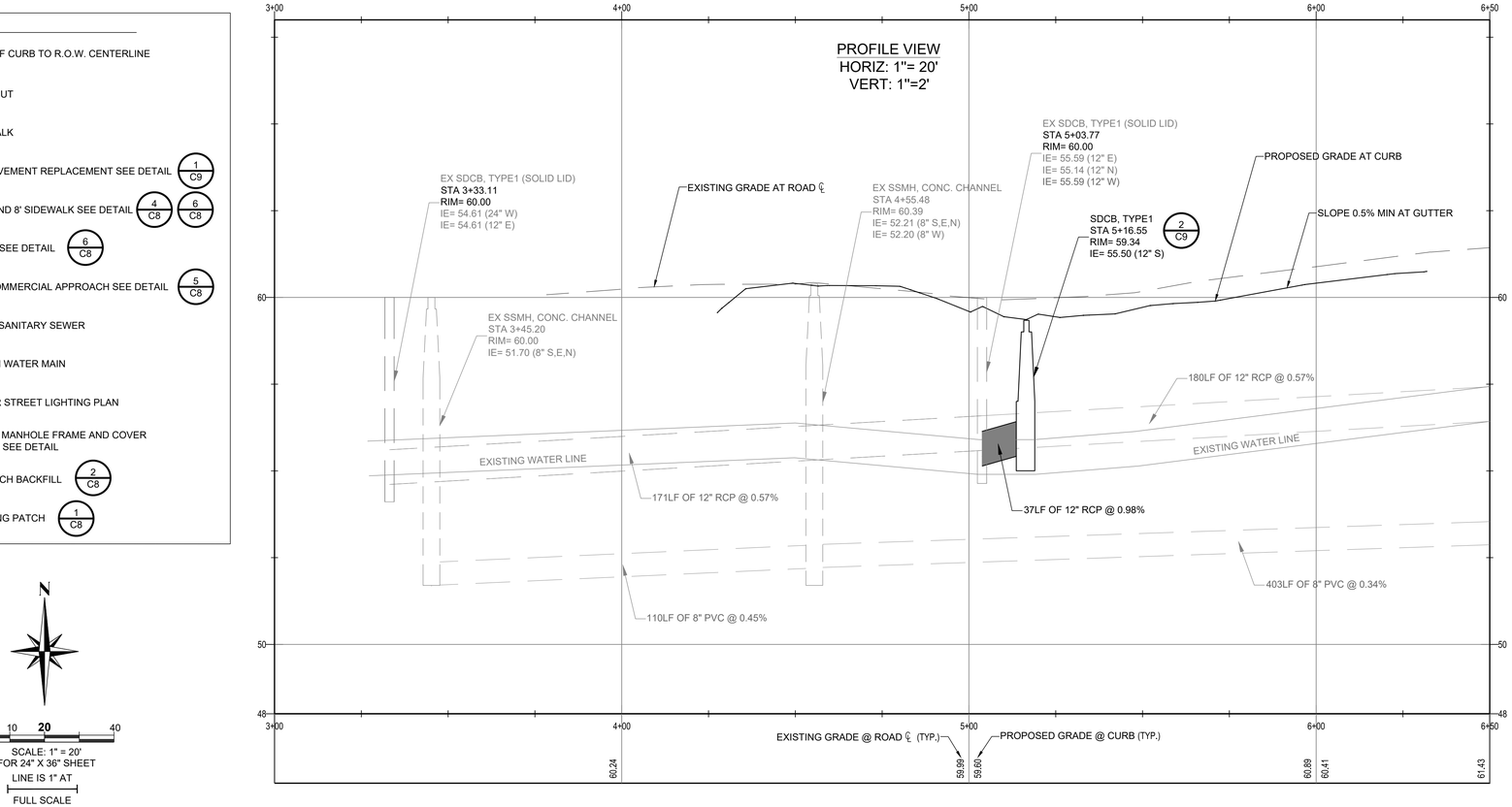
KEYNOTES

1. EXISTING FACE OF CURB TO R.O.W. CENTERLINE
2. EXISTING CURB CUT
3. EXISTING SIDEWALK
4. HALF-STREET PAVEMENT REPLACEMENT SEE DETAIL 1/C9
5. CURB, GUTTER AND 8' SIDEWALK SEE DETAIL 4/C8 6/C8
6. SIDEWALK RAMP SEE DETAIL 6/C8
7. 30 FOOT WIDE COMMERCIAL APPROACH SEE DETAIL 5/C8
8. EXISTING 8-INCH SANITARY SEWER
9. EXISTING 12-INCH WATER MAIN
10. SEE SHEET 6 FOR STREET LIGHTING PLAN
11. EXISTING SEWER MANHOLE FRAME AND COVER TO BE REPLACED SEE DETAIL
12. PROPOSED TRENCH BACKFILL 2/C8
13. PROPOSED PAVING PATCH 1/C8



LEGEND

- PROPERTY LINE
- SETBACK
- PROPOSED CONCRETE
- PROPOSED GRIND & OVERLAY
- PROPOSED ASPHALT
- PROPOSED LANDSCAPE
- PROPOSED ADS SYSTEM
- TRENCH BACKFILL
- PAVING PATCH
- SD — STORM DRAIN
- W — WATER LINE
- X — PROPOSED FENCE
- CATCH BASIN
- CLEAN OUT
- WATER METER
- DOUBLE CHECK VALVE ASSEMBLY
- 58 — PROPOSED CONTOUR LINES

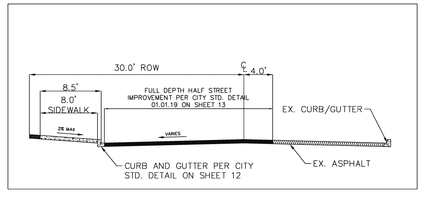
GENERAL NOTES

1. STORMWATER PIPE:
   A. PVC PIPE SHALL BE PER ASTM D3034, SDR 35.
   B. DUCTILE IRON PIPE SHALL BE CLASS 50, CONFORMING TO AWWA C151.

2. WATER MAINS:
   A. PIPE FOR WATER MAINS SHALL BE DUCTILE IRON CONFORMING TO SECTION 7-09 OF THE STANDARD SPECIFICATIONS AND SHALL BE THICKNESS SPECIAL CLASS 52 OR GREATER

3. SEWER PIPE
   A. PVC PIPE SHALL BE PER ASTM D3034, SDR 35.

4. STREET PLANTER
   A. TREES TO BE INSTALLED 3' BEHIND SIDEWALK. SEE LANDSCAPE PLAN.



SECTION A–A
HALF STREET IMPROVEMENTS
N.T.S.

CALL BEFORE YOU DIG
1-800-424-5555 OR 811

N

0 10 **20** 40

SCALE: 1" = 20'
FOR 24" X 36" SHEET
LINE IS 1" AT
FULL SCALE

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Tacoma, Washington 98404

2401 INTER FRONTAGE IMPROVEMENT PLAN

2401 INTER AVE SE PUYALLUP, WA 98372

JEFFREY W. McINNIS — STATE OF WASHINGTON — 37399 — REGISTERED PROFESSIONAL ENGINEER — 9/17/2025

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JOB NO. 24-166

SHEET C6 OF C14

C6

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2401 INTER
STREET LIGHTING PLAN

A PORTION OF THE SW 1/4 OF SECTION 26, TOWNSHIP 20 N, RANGE 4 E, W.M. PIERCE COUNTY, WA

APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE _____

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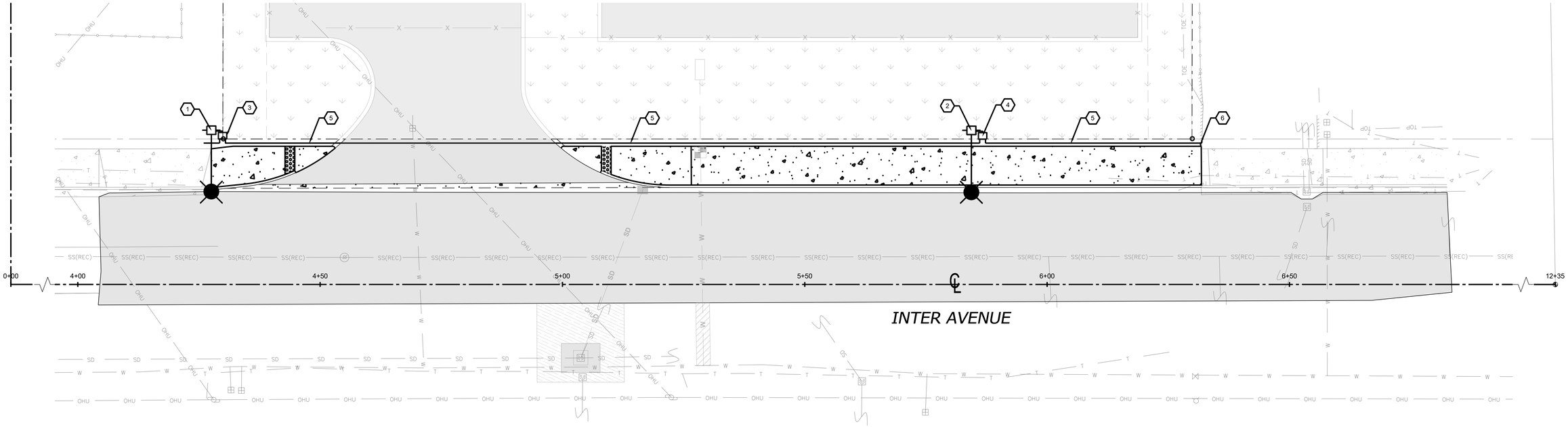

KEYNOTES

1. STREET LIGHTING POLE, STA. 4+27.56 , 31.81' LT PER CITY STD DETAIL 01.05.04 SEE DETAIL (4/C10)
2. STREET LIGHTING POLE, STA. 5+84.37 , 31.78' LT PER CITY STD DETAIL 01.05.04 SEE DETAIL (4/C10)
3. PROVIDE TYPE 1 JUNCTION BOX 4+29.87 , 30.67' LT WITH SLIP RESISTANT COATING AND 6" X 6" CONCRETE COLLAR PER CITY STANDARD DETAIL 01.06.01 SEE DETAIL (7/C10)
4. PROVIDE TYPE 1 JUNCTION BOX 5+86.69 , 30.63' LT WITH SLIP RESISTANT COATING AND 6" X 6" CONCRETE COLLAR PER CITY STANDARD DETAIL 01.06.01 SEE DETAIL (7/C10)
5. 2" PVC SCHEDULE 80 - (2) #8 CU AND (1) #10 CU GRD
   2" PVC SCHEDULE 80 - SPARE W/ PULLSTRING
6. CONNECT TO NEW CITY J-BOX AT THE WEST PROPERTY LINE OF THE ADJACENT PARCEL TO THE EAST. VERIFY VOLTAGE AND REQUIRED CONDUCTOR SIZE FOR THE RUN LENGTH. CITY TO PROVIDE RECENT INSTALLATION DETAILS. FIELD VERIFY.
7. ELECTRICAL CONTRACTOR SHALL MAINTAIN 150 FT SPACING REQUIREMENT BETWEEN STREET LIGHTING POLES PER CITY OF PUYALLUP STANDARDS. FIELD VERIFY AND COORDINATE LIGHTPOLE LOCATION WITH PSE AND CITY OF PUYALLUP PRIOR TO ROUGH IN.

LEGEND

- PROPERTY LINE
- SETBACK
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED LANSCAPE
- PROPOSED ADS SYSTEM
- TRENCH BACKFILL
- PAVING PATCH
- SD — STORM DRAIN
- W — WATER LINE
- X — PROPOSED FENCE
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- CLEAN OUT
- WATER METER
- DOUBLE CHECK VALVE ASSEMBLY

N

0 5 10 20

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2401 INTER
STREET LIGHTING PLAN

2401 INTER AVE SE
PUYALLUP, WA 98372

9/17/2025

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SHEET C7 OF C14

C7

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2401 INTER

NOTES AND DETAILS

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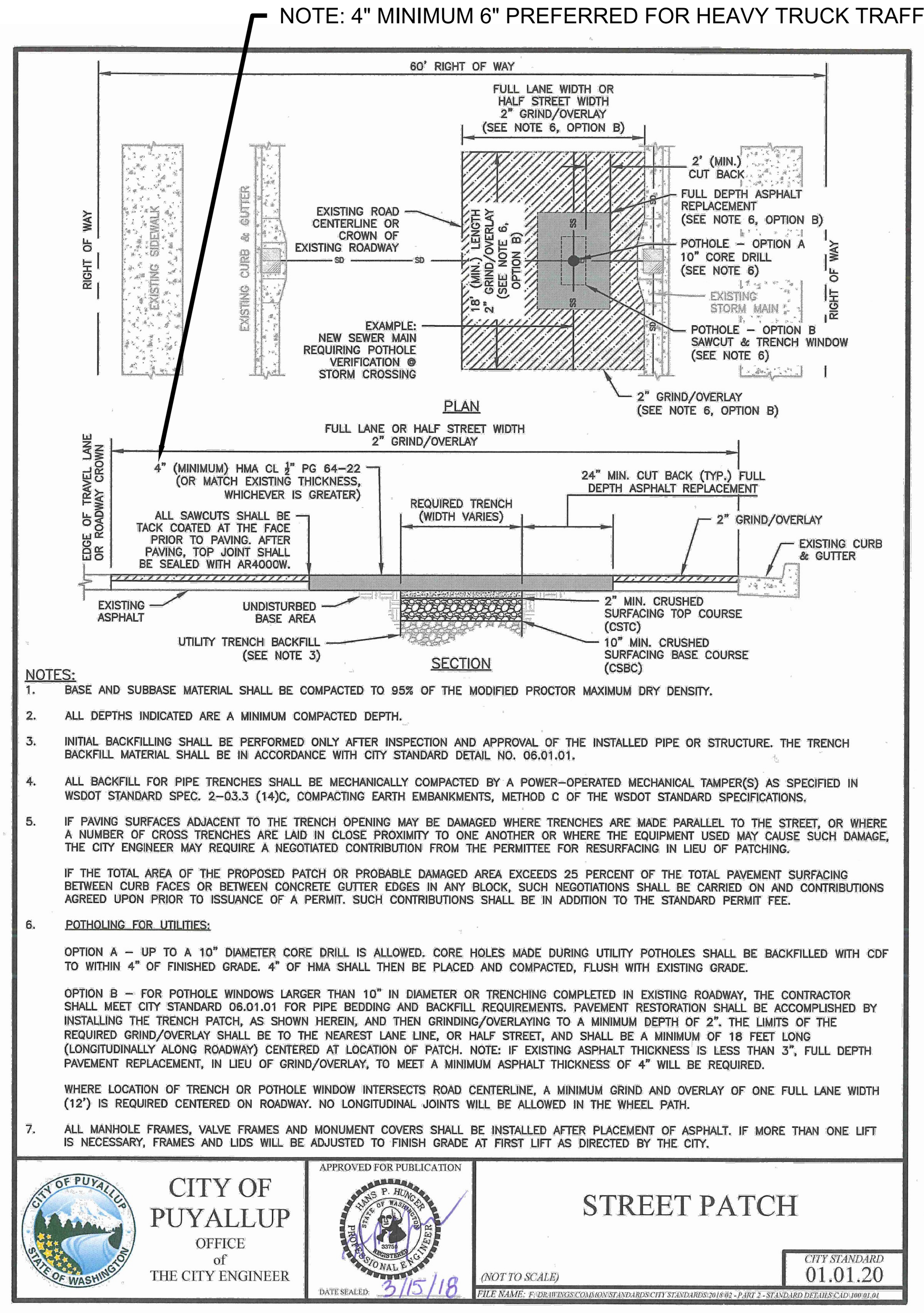
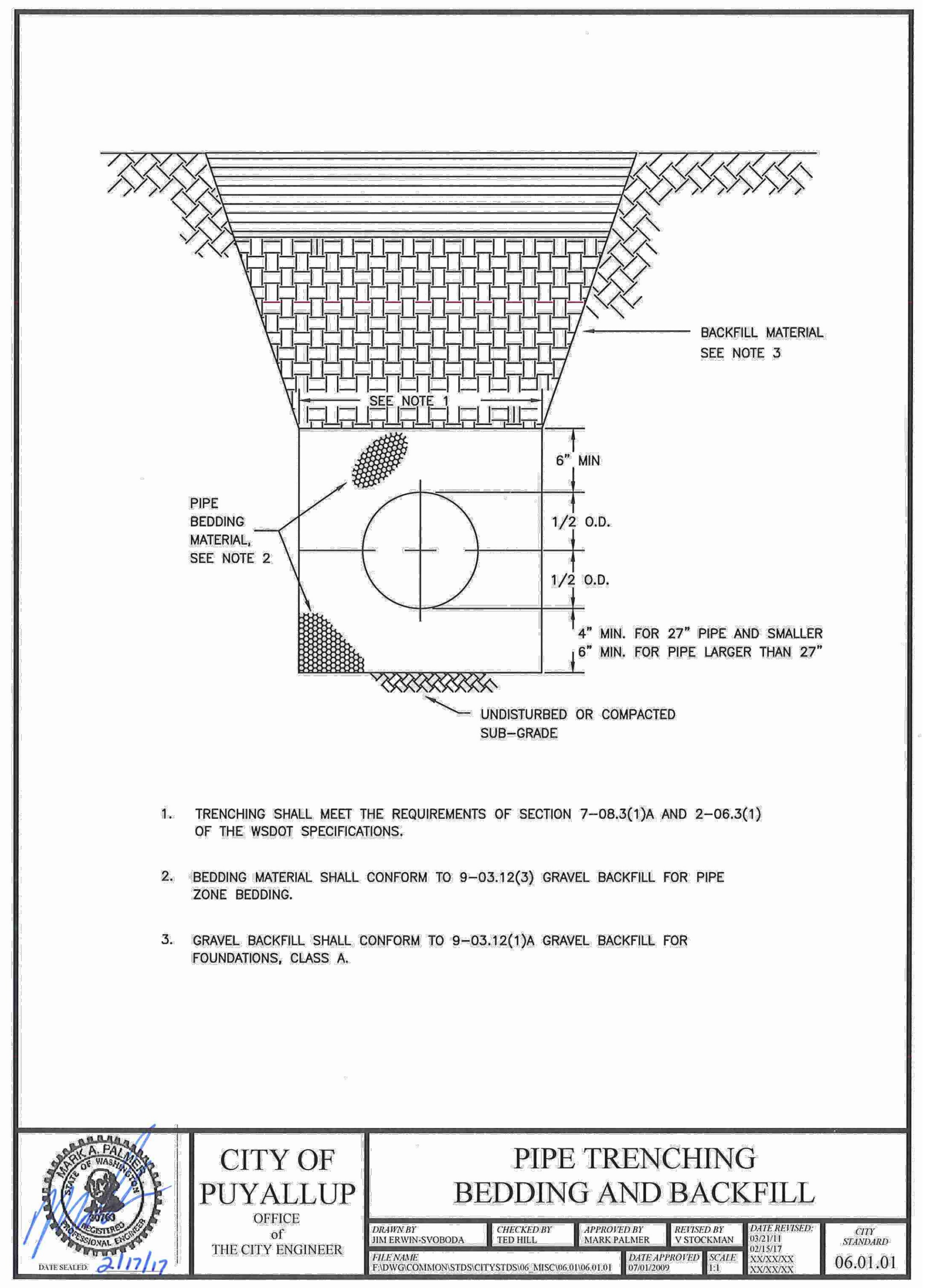
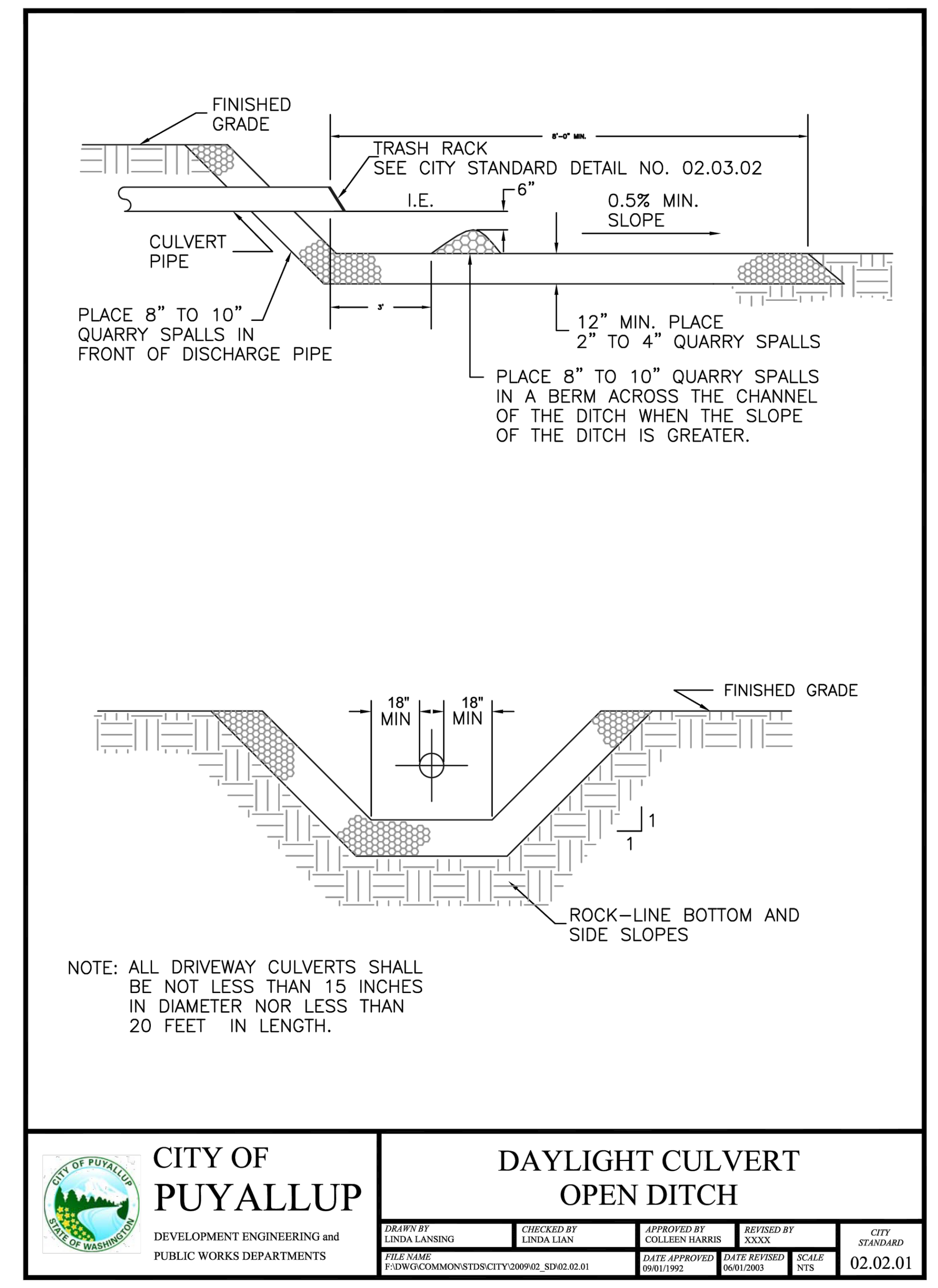


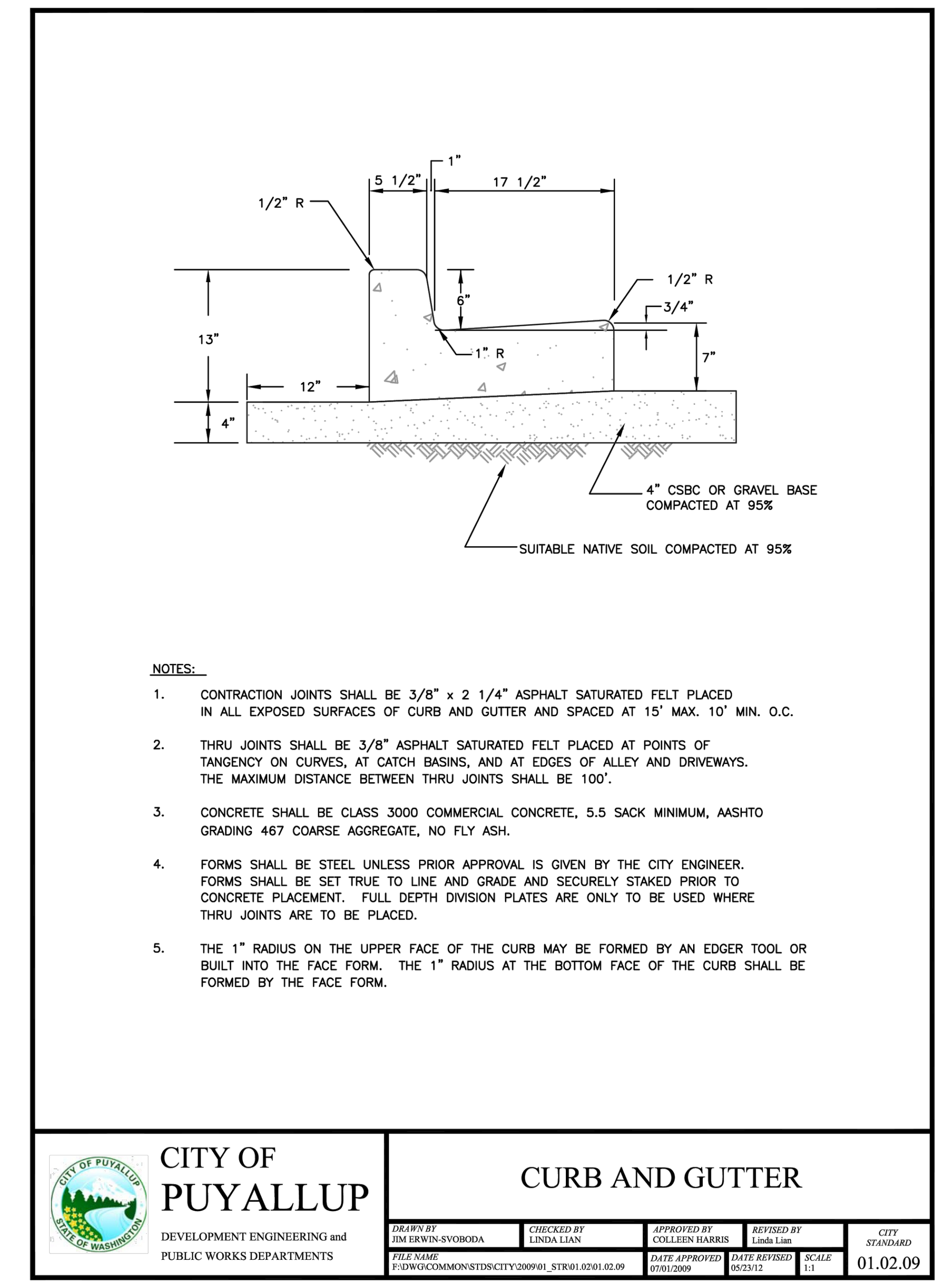
1 STREET PATCH
SCALE:NTS



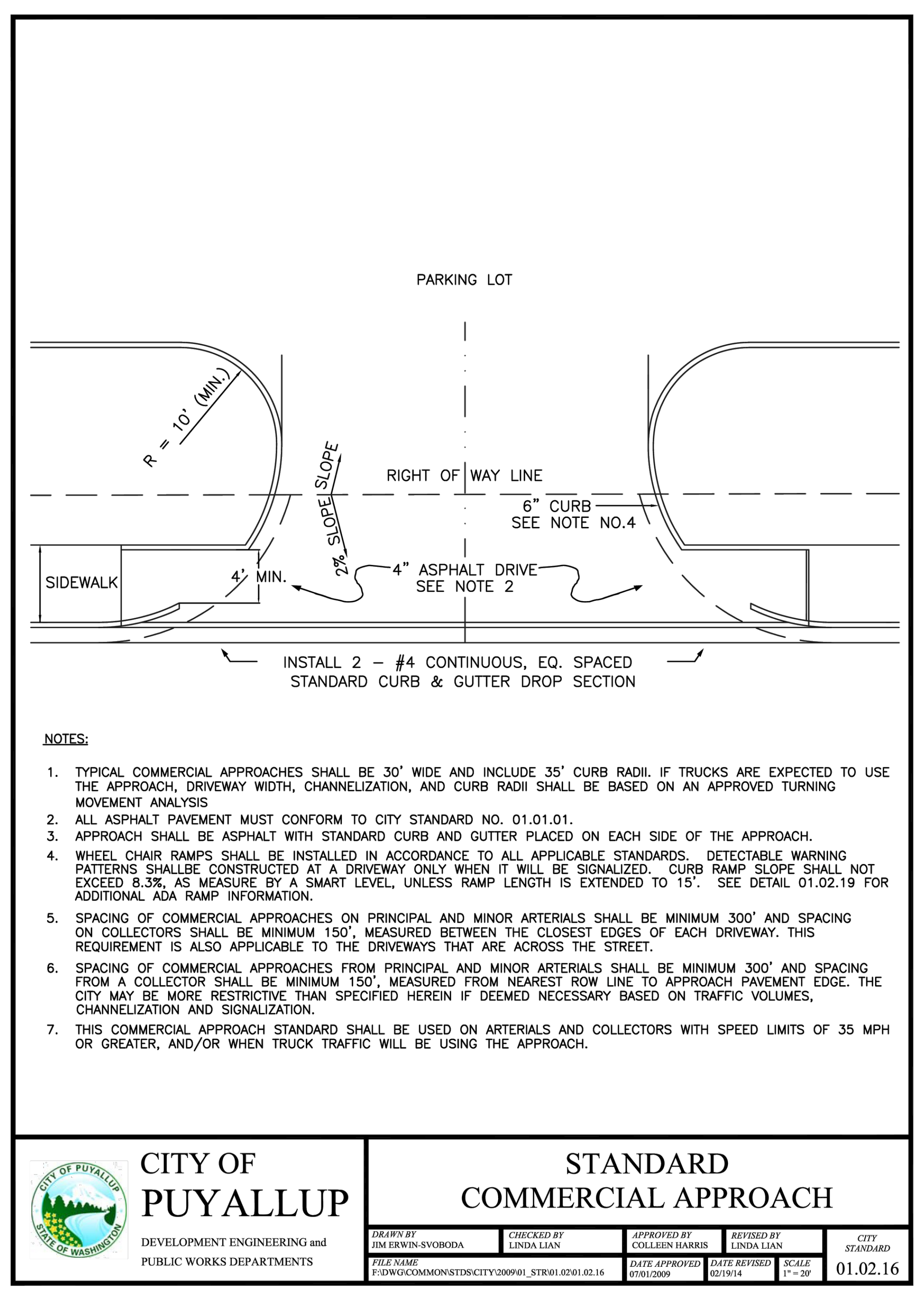
2 PIPE TRENCHING BEDDING AND BACKFILL
SCALE:NTS



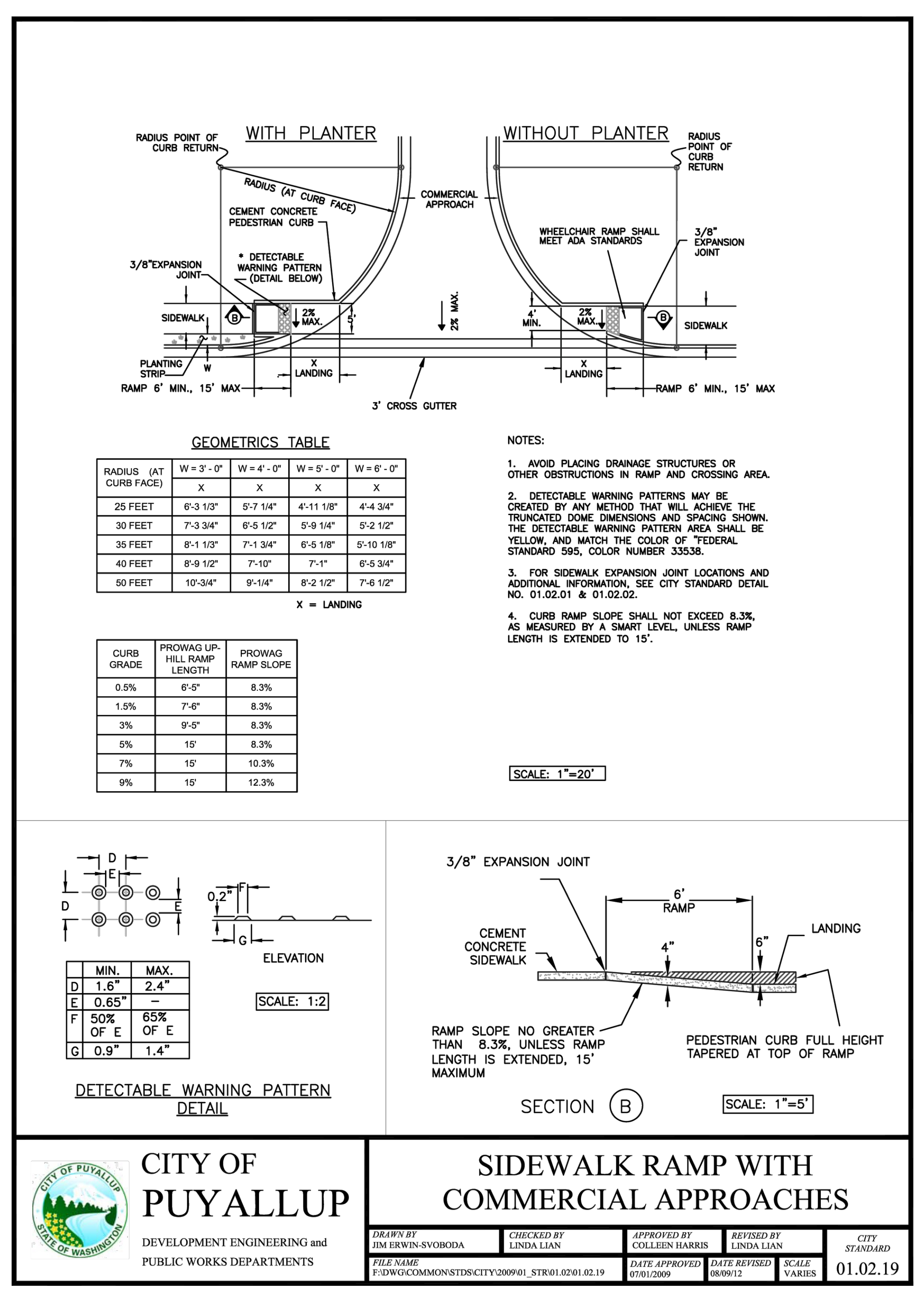
3 DAYLIGHT CULVERT OPEN DITCH
SCALE:NTS



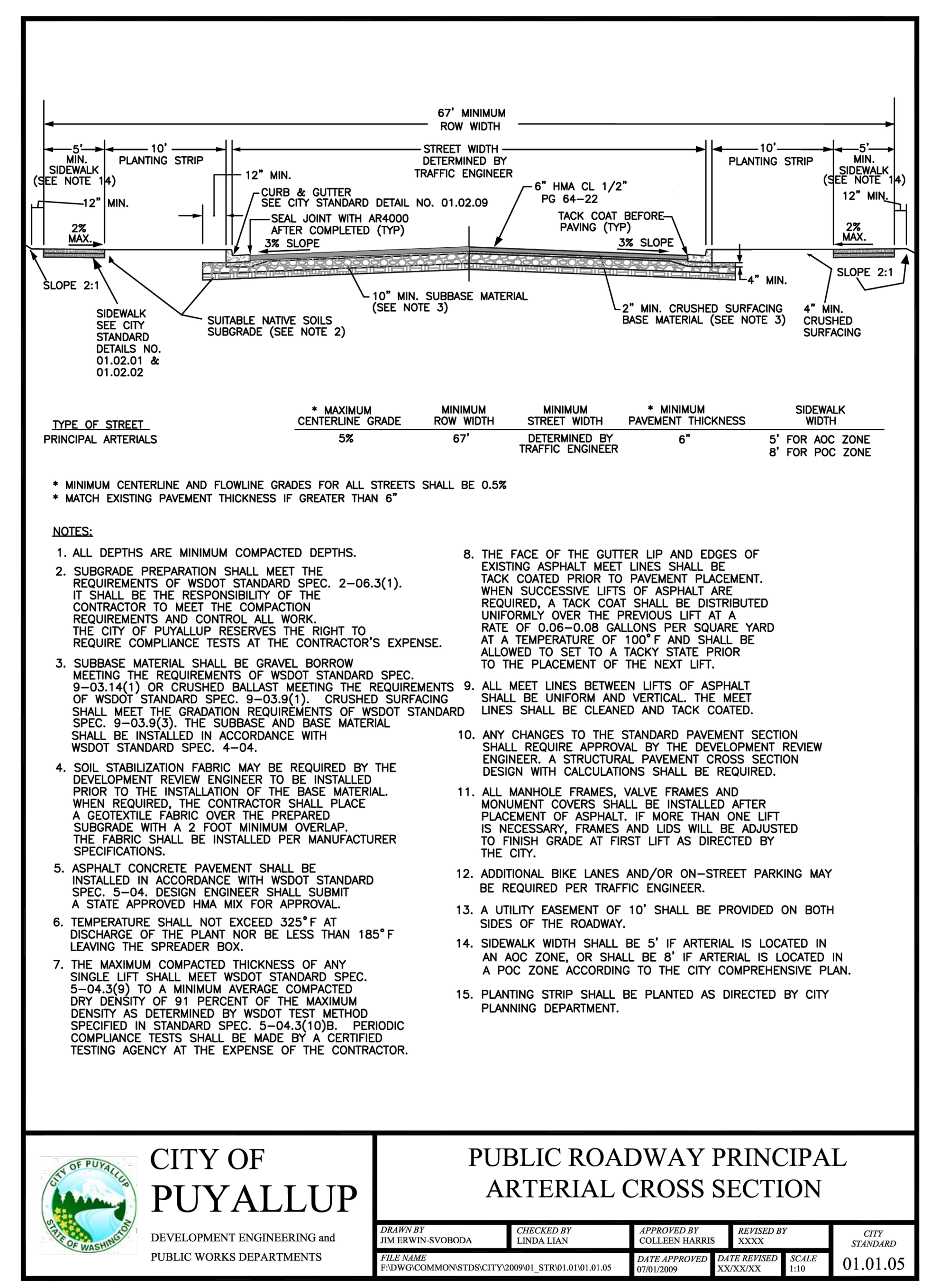
4 CURB AND GUTTER
SCALE:NTS



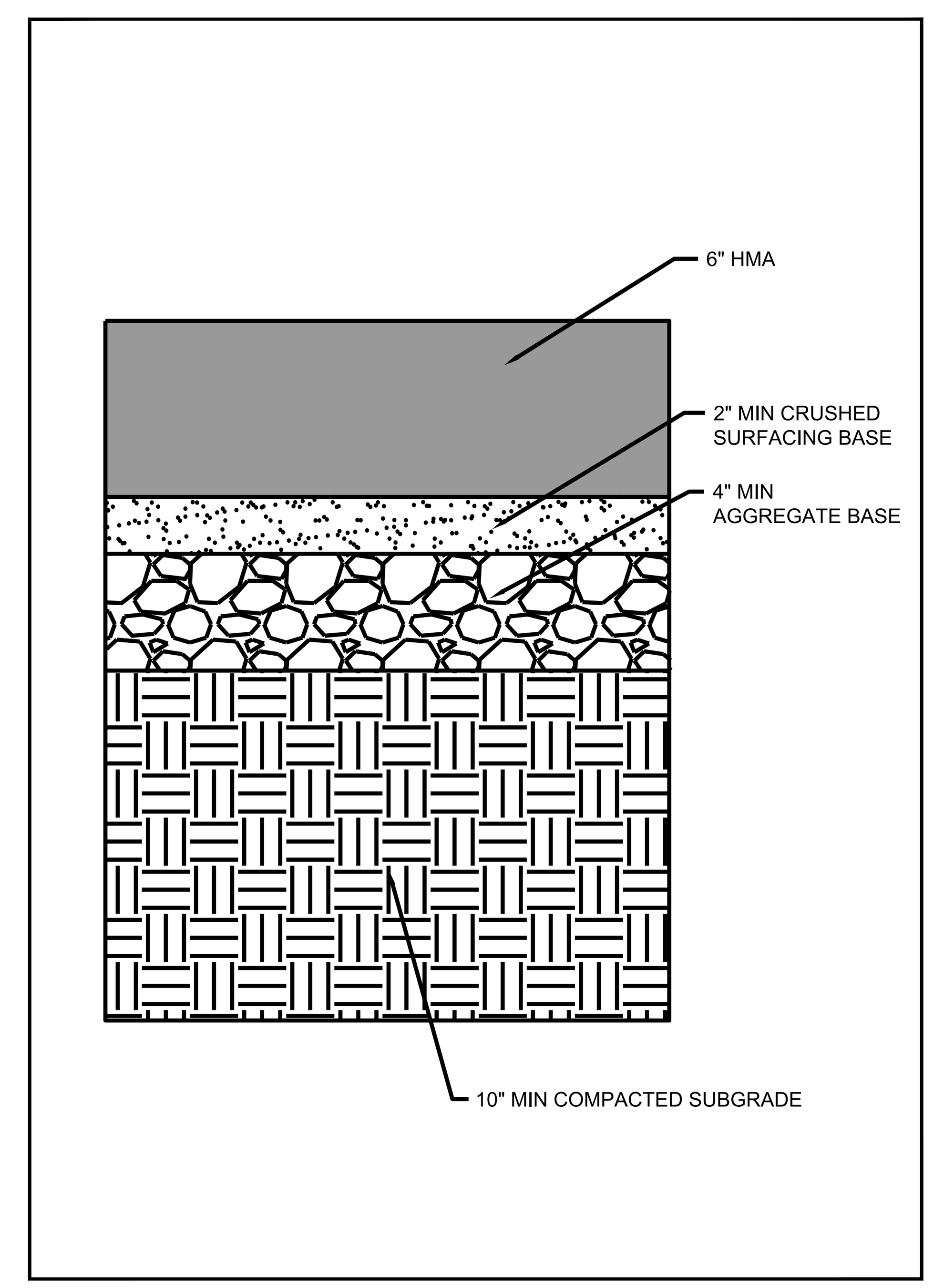
5 STANDARD COMMERCIAL APPROACH
SCALE:NTS



6 SIDEWALK RAMP WITH COMMERCIAL APPROACHES
SCALE:NTS



7 PUBLIC ROADWAY PRINCIPAL ARTERIAL CROSS SECTION
SCALE:NTS



8 ASPHALT CROSS SECTION
SCALE:NTS

APPROVED

BY ______
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE ______

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2401 INTER
NOTES AND DETAILS

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PUYALLUP, WA 98372

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JOB NO. 24-166

SHEET C8 OF C14

C8

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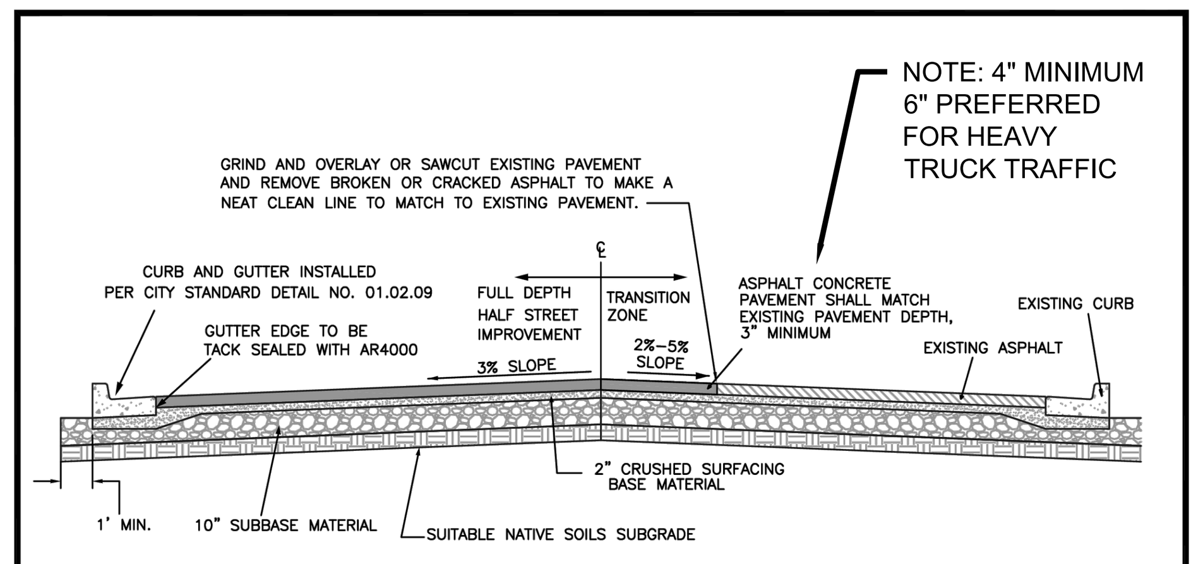
1-800-424-5555 OR 811

2401 INTER
NOTES AND DETAILS

A PORTION OF THE SW 1/4 OF SECTION 26, TOWNSHIP 20 N, RANGE 4 E, W.M. PIERCE COUNTY, WA

CITY OF PUYALLUP ROADWAY PLAN 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 REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT, SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
8. MONUMENTS SHALL BE INSTALLED AT ALL STREET INTERSECTIONS, AT ANGLE POINTS, AND POINTS OF CURVATURE IN EACH STREET. ALL BOUNDARY MONUMENTS MUST BE INSTALLED ACCORDING TO THE WASHINGTON STATE SUBDIVISION LAWS.
9. CURB AND GUTTER INSTALLATION SHALL CONFORM TO CITY STANDARD DETAIL 01.02.09.
10. SIDEWALKS AND DRIVEWAYS SHALL BE INSTALLED AS LOTS ARE BUILT ON. SIDEWALKS AND DRIVEWAYS SHALL CONFORM TO CITY STANDARD DETAIL 01.02.01, 01.02.02 AND 01.02.12. IF ASPHALT IS DAMAGED DURING REPLACEMENT OF CURB AND GUTTER, THE REPAIR SHALL CONFORM TO CITY STANDARD DETAIL 01.02.10.
11. THE SURROUNDING GROUND (5 FEET BEYOND THE BASE) FOR ALL POWER TRANSFORMERS, TELEPHONE/TV PEDESTALS, AND STREET LIGHT MAIN DISCONNECTS SHALL BE GRADED TO A POSITIVE 2 PERCENT SLOPE FROM TOP OF CURB.
12. SIGNAGE AND TRAFFIC CONTROL DEVICES ARE SAFETY ITEMS AND SHALL BE INSTALLED PRIOR TO ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY OR PLAT APPROVAL. HOWEVER, IN LARGER DEVELOPMENTS, EXACT LOCATIONS OF STOP AND YIELD SIGNS MAY NEED TO BE DETERMINED AFTER FULL BUILDOUT WHEN TRAFFIC PATTERNS HAVE BEEN ESTABLISHED. IN THIS CASE, CONTRACTOR SHALL PROVIDE INDICATED "CITY-PLACED" SIGNS, SIGNPOSTS, AND BRACKETS TO THE CITY SIGN SPECIALIST (253) 841-5471 FOR LATER INSTALLATION BY THE CITY. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
13. PRIOR TO ANY SIGN OR STRIPING INSTALLATION OR REMOVAL THE CONTRACTOR SHALL CONTACT THE CITY SIGN SPECIALIST (253) 841-5471 TO ARRANGE FOR AN ON-SITE MEETING TO DISCUSS PLACEMENT AND UNIFORMITY.
14. NEW OR REVISED STOP SIGNS OR YIELD SIGNS SHALL BE ADVANCE WARNED USING THE PROCEDURES OUTLINED IN THE MUTCD. ADVANCE WARNING SIGNS AND FLAGS SHALL BE MAINTAINED BY INSTALLER FOR 30 DAYS AND THEN REMOVED.



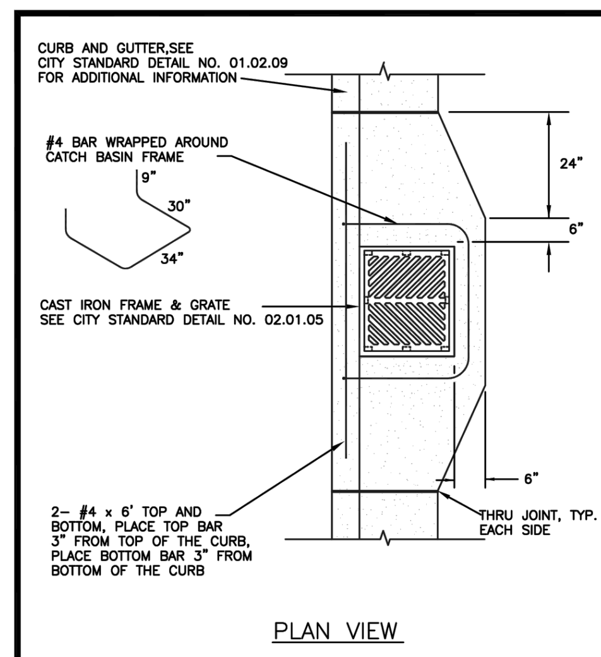
NOTES:

1. ALL DEPTHS ARE MINIMUM COMPACTED DEPTHS.
2. SUBGRADE PREPARATION SHALL MEET THE REQUIREMENTS OF WSDOT STANDARD SPEC. 2–06.3(1). IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MEET THE COMPACTION REQUIREMENTS AND CONTROL ALL WORK. THE CITY OF PUYALLUP RESERVES THE RIGHT TO REQUIRE TESTS AT THE CONTRACTOR'S EXPENSE.
3. SUBBASE MATERIAL SHALL BE GRAVEL BORROW MEETING THE REQUIREMENTS OF WSDOT STANDARD SPEC. 9–03.14(1) OR CRUSHED BALLAST MEETING THE REQUIREMENTS OF WSDOT STANDARD SPEC. 9–03.9(1). CRUSHED SURFACING SHALL MEET THE GRADATION REQUIREMENTS OF WSDOT STANDARD SPEC. 9–03.9(3). THE SUBBASE AND BASE MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH WSDOT STANDARD SPEC. 4–04.
4. SOIL STABILIZATION FABRIC MAY BE REQUIRED BY THE DEVELOPMENT REVIEW ENGINEER TO BE INSTALLED PRIOR TO THE INSTALLATION OF THE BASE MATERIAL. WHEN REQUIRED, THE CONTRACTOR SHALL PLACE A GEOTEXTILE FABRIC OVER THE PREPARED SUBGRADE WITH A TWO FOOT MINIMUM OVERLAP. THE FABRIC SHALL BE INSTALLED PER MANUFACTURER SPECIFICATIONS.
5. ASPHALT CONCRETE PAVEMENT SHALL BE INSTALLED IN ACCORDANCE WITH WSDOT STANDARD SPEC 5–04. DESIGN ENGINEER SHALL SUBMIT A STATE APPROVED HMA MIX FOR APPROVAL.
6. TEMPERATURE SHALL NOT EXCEED 325°F AT DISCHARGE OF THE PLANT NOR BE LESS THAN 185°F LEAVING THE SPREADER BOX.
7. THE MAXIMUM COMPACTED THICKNESS OF ANY SINGLE LIFT SHALL MEET WSDOT STANDARD SPEC. 5–04.3(9) TO A MINIMUM AVERAGE COMPACTED DRY DENSITY OF 91 PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY WSDOT TEST METHOD SPECIFIED IN STANDARD SPEC. 5–04.3(10)B. PERIODIC COMPLIANCE TESTS SHALL BE MADE BY A CERTIFIED TESTING AGENCY AT THE EXPENSE OF THE CONTRACTOR.
8. THE FACE OF THE GUTTER LIP AND EDGES OF EXISTING ASPHALT MEET LINES SHALL BE TACK COATED PRIOR TO PAVEMENT PLACEMENT. WHEN SUCCESSIVE LIFTS OF ASPHALT ARE REQUIRED, A TACK COAT SHALL BE DISTRIBUTED UNIFORMLY OVER THE PREVIOUS LIFT AT A RATE OF 0.06–0.08 GALLONS PER SQUARE YARD AT A TEMPERATURE OF 100°F AND SHALL BE ALLOWED TO SET TO A TACKY STATE PRIOR TO THE PLACEMENT OF THE NEXT LIFT.
9. ALL MEET LINES BETWEEN LIFTS OF ASPHALT SHALL BE UNIFORM AND VERTICAL. THE MEET LINES SHALL BE CLEANED AND TACK COATED.
10. ANY CHANGES TO THE STANDARD PAVEMENT SECTION SHALL REQUIRE APPROVAL BY THE DEVELOPMENT REVIEW ENGINEER. A STRUCTURAL PAVEMENT CROSS SECTION DESIGN WITH CALCULATIONS SHALL BE REQUIRED.
11. 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.
12. ASPHALT SHALL BE HMA CL 1/2" PG 64–22

CITY OF PUYALLUP — DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS — HALF STREET IMPROVEMENT

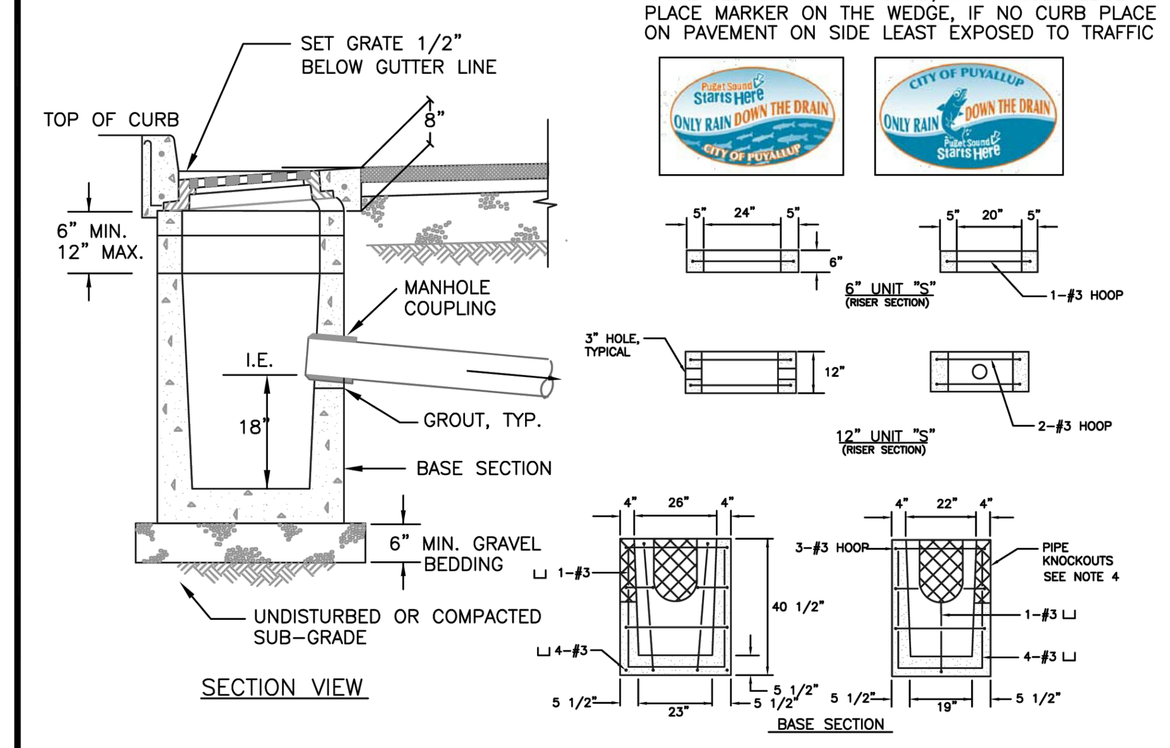
DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
JIM ERWIN-SVOBODA	LINDA LIAN	COLLEEN HARRIS	XXXX	01.01.19
FILE NAME F:\DWG\COMMON\STDS\CITY\2009\01_STR\01.01\01.01.19		DATE APPROVED 07/01/2009	DATE REVISED XX/XX/XX	SCALE 1:5

1 HALF STREET IMPROVEMENT
SCALE:NTS



NOTES:

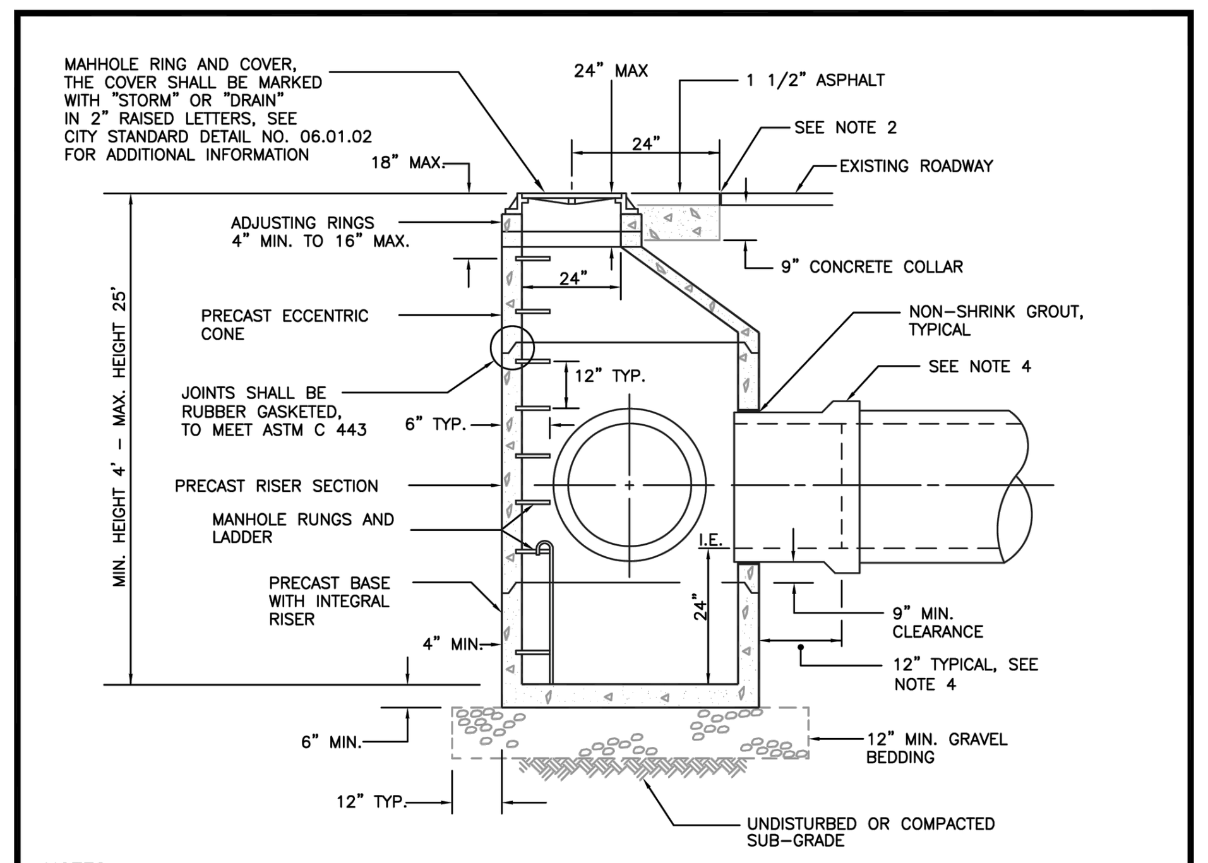
1. MAXIMUM LENGTH OF PIPE BETWEEN CATCH BASINS SHALL BE 400'.
2. MAXIMUM GUTTER LINE FLOW LENGTH SHALL BE 300'.
3. TYPE I CATCH BASIN IS USED FOR DEPTHS LESS THAN 5'–0" FROM TOP OF GRATE TO I.E.(PIPE INVERT).
4. PRECAST BASE SECTION SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A 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

2 CATCH BASIN TYPE 1 (GUTTER DRAIN)
SCALE:NTS



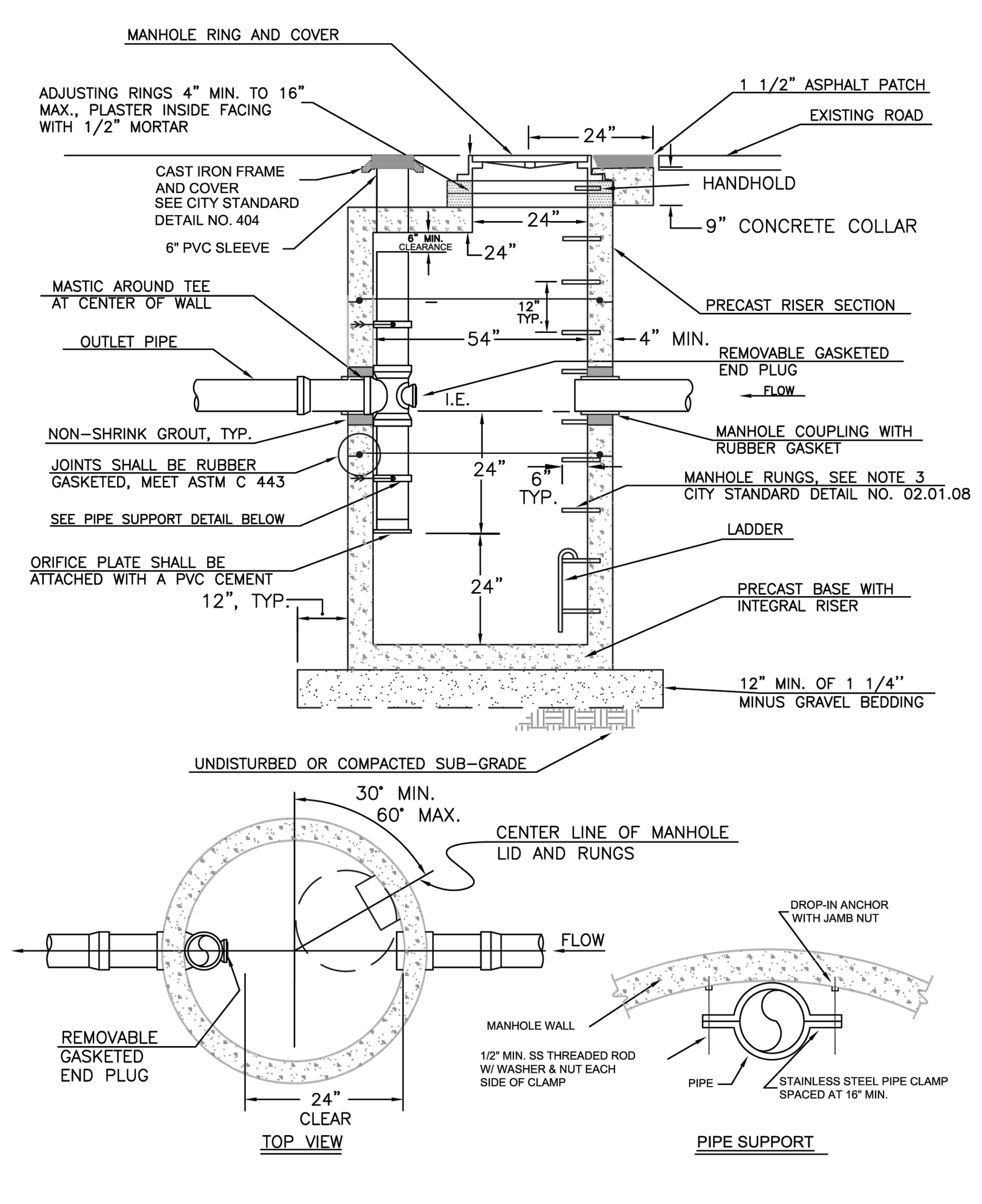
NOTES:

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

3 STORM SEWER MANHOLE
SCALE:NTS



CITY OF PUYALLUP — DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS — FLOW CONTROL MANHOLE WITH FLAT TOP

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
LINDA LANSING	LINDA LIAN	COLLEEN HARRIS	XXXX	02.01.07
FILE NAME F:\DWG\COMMON\STDS\CITY\2009\02_SD\02.01.07		DATE APPROVED 09/01/1992	DATE REVISED 06/01/2003	SCALE NTS

4 FLOW CONTROL MANHOLE WITH FLAT TOP
SCALE:NTS

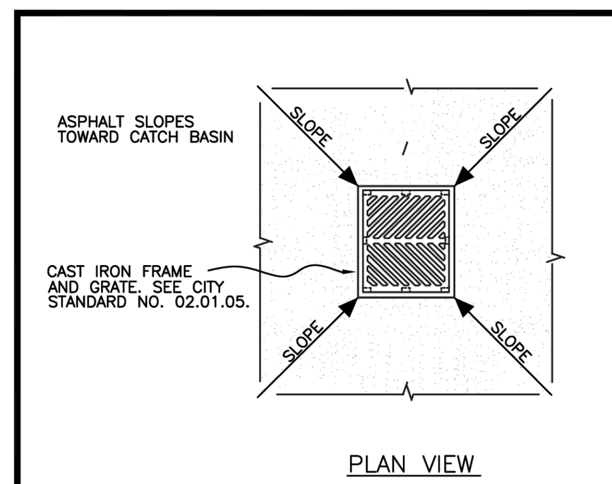
NOTES FOR FLOW CONTROL MANHOLE:

1. NEAT LINE CUTS SHALL BE AT TOP WITH A HOT PAVING GRADE ASPHALT AND FACE OF CUT TACKED.
2. FLOW CONTROL MANHOLES SHALL BE USED AS A SINGLE USE STRUCTURE.
3. MANHOLE RUNG SHALL CONFORM TO SECTION R, ASTM C 478 (ASSHTO M–199) AND MEET ALL WISHA 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 RUNG LEG IS PROHIBITED. SEE MANHOLE STEP AND LADDER DETAIL, CITY STANDARD DETAIL NO. 06.01.04.
4. PRECAST RISER SECTION SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE WALL THICKNESS OF TWO (2) INCHES MINIMUM. KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAMETER PLUS MANHOLE WALL THICKNESS. MINIMUM DISTANCE BETWEEN HOLES IS EIGHT (8) INCHES.
5. PRECAST CONCRETE MANHOLE COMPONENTS SHALL CONFORM TO ASTM C 478.
6. FLEXIBLE JOINTS SHALL BE RUBBER GASKETED IN ACCORDANCE WITH THE WSDOT STANDARD SPECIFICATIONS. MORTARED, DRY–PACKED, OR CAST–IN–PLACE JOINTS WILL BE PERMITTED FOR CONNECTIONS TO OR THROUGH MANHOLES. A FLEXIBLE GASKETED JOINT SHALL BE INSTALLED WITHIN ONE (1) FOOT OF EACH CONNECTION TO OR THROUGH SAID MANHOLES. CONNECTIONS TO MANHOLE WITH PVC PIPE SHALL UTILIZE A MANHOLE COUPLING AND RUBBER GASKET.
7. THE COVER ON THE MANHOLE SHALL BE MARKED WITH "STORM" OR "DRAIN" IN TWO (2) INCH RAISED LETTERS. SEE MANHOLE RING AND COVER DETAIL, CITY STANDARDS DETAIL NO. 06.01.02 AND 06.01.03.
8. STAINLESS STEEL PIPE CLAMP WITH 1/2" DIAMETER STAINLESS STEEL THREADED ROD WITH WASHER AND NUT EACH SIDE OF CLAMP. PROVIDE 1/2" DIAMETER DROP–IN ANCHOR WITH JAMB NUT AT WALL. PIPE CLAMPS SHALL BE PLACED AT SIXTEEN (16) INCHES ON CENTER.
9. FLOW CONTROL UNIT SHALL BE MADE FROM PVC PIPE AND SHALL CONFORM TO THE STANDARD PIPE SPECIFICATIONS.

CITY OF PUYALLUP — DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS — FLOW CONTROL MANHOLE NOTES

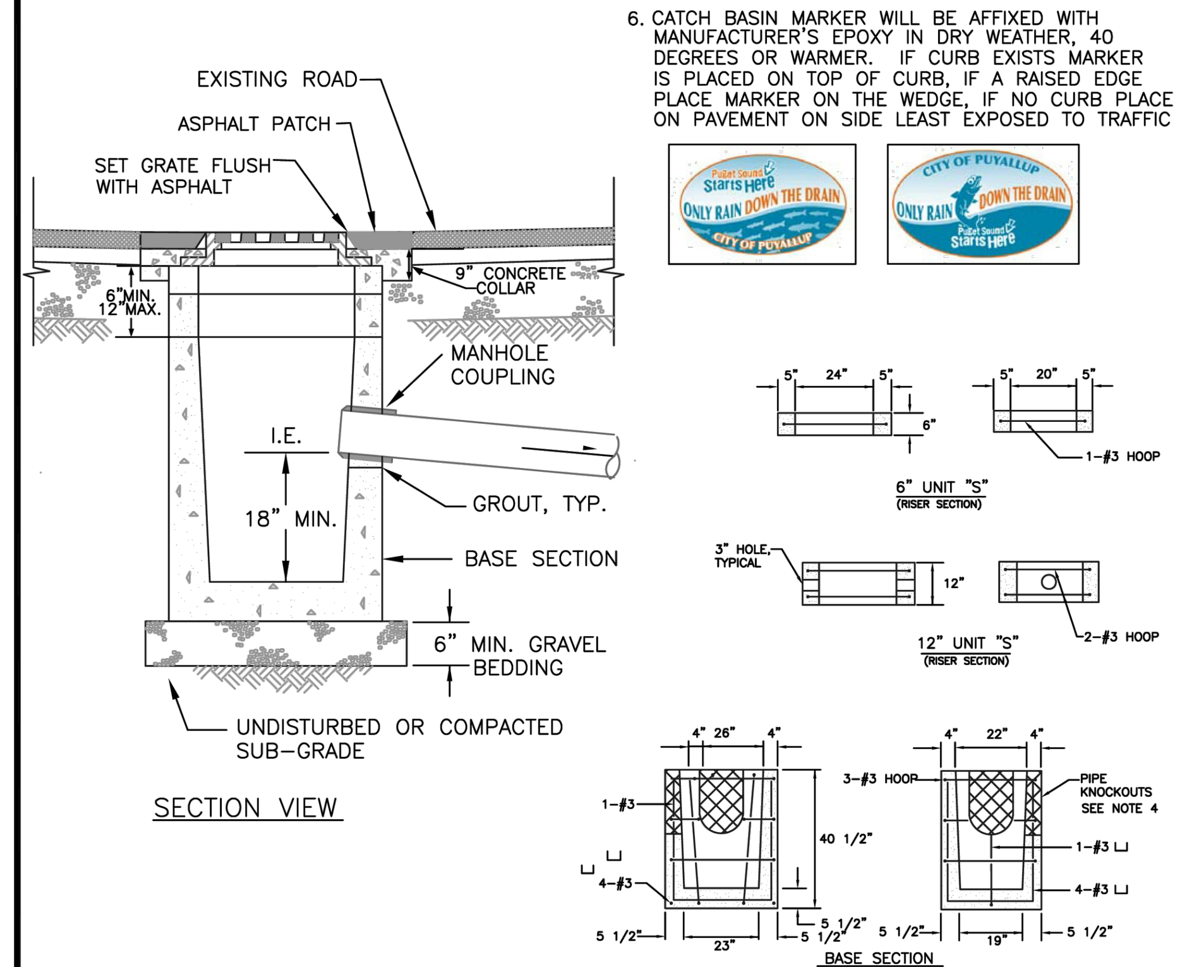
DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
LINDA LANSING	LINDA LIAN	COLLEEN HARRIS	XXXX	02.01.08
FILE NAME F:\DWG\COMMON\STDS\CITY\2009\02_SD\02.01.08		DATE APPROVED 09/01/1992	DATE REVISED 06/01/2003	SCALE NTS

5 FLOW CONTROL MANHOLE NOTES
SCALE:NTS



NOTES:

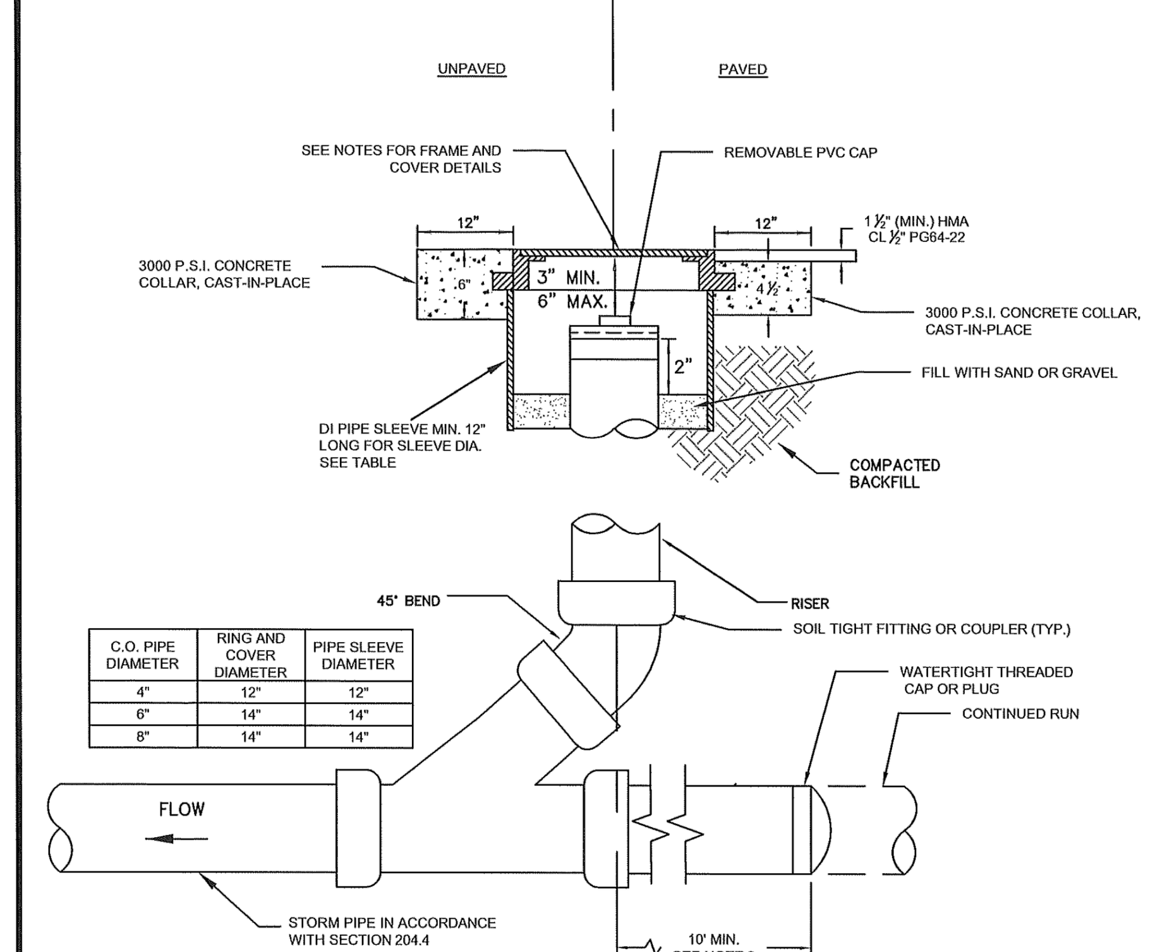
1. MAXIMUM LENGTH OF PIPE BETWEEN CATCH BASINS SHALL BE 400'.
2. TYPE I CATCH BASIN IS USED FOR DEPTHS LESS THAN 5'–0" FROM TOP OF GRATE TO I.E.(PIPE INVERT).
3. PRECAST BASE SECTION SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN. KNOCKOUTS SHALL BE ON 4 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

6 CATCH BASIN TYPE 1 (AREA DRAIN)
SCALE:NTS



C.O. PIPE DIAMETER	RING AND COVER DIAMETER	PIPE SLEEVE DIAMETER
4"	12"	12"
6"	14"	14"
8"	14"	14"

NOTES:

1. CAST IRON COVER MARKED "FDCO" FOR FOOTING DRAINS OR "SDCO" FOR STORM LINES.
2. CAST IRON FRAME AND COVER SHALL BE DRILLED AND TAPPED WITH ⅝"-11 NC STAINLESS STEEL TYPE 304 ALLEN HEAD BOLTS, 2" LONG.
3. BOLT-LOCKING CAST IRON FRAME AND COVER SHALL BE HS-20 RATED IF USED IN RIGHT-OF-WAY OR EASEMENTS.
4. 14" BOLT-LOCKING CAST IRON FRAME AND COVER SHALL BE EQUAL TO OLYMPIC FOUNDRY PART # M1060.
5. CAST IRON FRAME AND COVER SHALL BE FLUSH WITH FINISHED GRADE.
6. CLEANOUTS REQUIRED FOR EACH PIPE LENGTH GREATER THAN 100' AND FOR EACH 90 DEGREE BEND.
7. STORM PIPE BEDDING AND BACKFILL SHALL CONFORM TO STD DETAIL 06.01.01.
8. FINAL JOINTS SHALL BE SAW CUT, FACE OF CUT TACKED AND ALL JOINTS SEALED WITH SEALANT (AR4000W).
9. STORM DRAIN STUB SHALL EXTEND 10' BEYOND THE PROPERTY LINE OR EASEMENT LINE TO PREVENT DAMAGE AND MINIMIZE CONFLICT WITH FUTURE UTILITIES.
10. EACH CLEANOUT ASSEMBLY SHALL CONSIST OF: ONE CLEANOUT ADAPTOR, (HUB x FEMALE INSIDE PIPE THREAD, PVC SLIP IN), AND ONE CLEANOUT PLUG (MALE OUTSIDE THREAD WITH RAISED NUT, PVC).
11. FOR LANDSCAPED AREAS (OUTSIDE OF CITY ROW, EASEMENTS AND FACILITIES) A GREEN "CARSON" MODEL 910 YARD BOX MAY BE USED FOR C.O. PIPE DIA. LESS THAN OR EQUAL TO 6". YARD BOX SHALL BE FASTENED WITH ⅜" HEX BOLTS, THE COVER MARKED "STORM" AND FLUSH WITH FINISHED GRADE.

CITY OF PUYALLUP — PUBLIC WORKS AND DEVELOPMENT ENGINEERING — APPROVED FOR PUBLICATION — DATE SEALED: 2/28/23 — STORM DRAIN CLEANOUT

SCALE	DATE REVISED	CITY STANDARD
NTS	01/06/2023	02.01.09
FILE NAME: Y:\Shared\Drawings\City Standards\2018\02 - PART 2 - STANDARD DETAILS\CAD\200\02.01.09		

7 STORM DRAIN CLEANOUT
SCALE:NTS

APPROVED

BY ______________
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE ______________

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

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 AND 06.01.03. THE COVER SHALL BE MARKED WITH "STORM" OR "DRAIN" IN 2-INCH RAISED LETTERS. MINIMUM WEIGHT OF THE FRAME SHALL BE 210 POUNDS. MINIMUM WEIGHT OF THE COVER SHALL BE 150 POUNDS.

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-2 (OLYMPIC FOUNDRY NO. SM60 OR EQUAL). VANED GRATES SHALL CONFORM TO WSDOT STANDARD PLAN B-2A (OLYMPIC FOUNDRY NO. SM60V OR EQUAL).

14. STORMWATER PIPE SHALL BE ONLY PVC, CONCRETE OR DUCTILE IRON 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 VIDEO INSPECTED BY THE CITY OF PUYALLUP COLLECTIONS DIVISION PRIOR TO FINAL ACCEPTANCE BY THE CITY.

18. AFTER ALL OTHER UTILITIES ARE INSTALLED AND PRIOR TO ASPHALT WORK, ALL STORM PIPE SHALL PASS A LOW PRESSURE AIR TEST IN ACCORDANCE WITH SECTION 7-04.3(4)D OF THE STANDARD SPECIFICATIONS. PRODUCTS USED TO SEAL THE INSIDE OF THE PIPE ARE NOT TO BE USED TO OBTAIN THE AIR TEST.

19. ALL STORM DRAIN MAINS SHALL BE MANDRELLED.

20. 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.

CALL BEFORE YOU DIG
1-800-424-5555 OR 811

McInnis ENGINEERING
mcinnisengineering.com
253.414.1992
202 East 34th Street
Tacoma, Washington 98404

2401 INTER
NOTES AND DETAILS

2401 INTER AVE SE
PUYALLUP, WA 98372

JEFFREY W. McINNIS — STATE OF WASHINGTON — 37399 — REGISTERED PROFESSIONAL ENGINEER — 8/22/2025

NUM	DATE	DESCRIPTION
V1	01/24/25	INITIAL RELEASE
V2	06/23/25	SECOND RELEASE

DESIGNED W. MCINNIS	SCALE N.T.S.
DRAWN W. MCINNIS	CHECKED J. MCINNIS
DATE 9/17/2025	APPROVED J. MCINNIS

JOB NO. 24-166

SHEET C9 OF C14

C9

2401 INTER

NOTES AND DETAILS

A PORTION OF THE SW 1/4 OF SECTION 26, TOWNSHIP 20 N, RANGE 4 E, W.M. PIERCE COUNTY, WA

STREET LIGHTING SPECIFICATIONS

1. 30–FOOT STEEL STREETLIGHT STANDARD

   a. DIMENSIONS

   STREETLIGHT STANDARDS SHALL PROVIDE A FIXTURE MOUNTING HEIGHT OF 30'0" PLUS OR MINUS 6" WITH A TYPICAL 12 FOOT MAST ARM WITH A THREE FOOT OVERHANG.

   BASE PLATE SHALL HAVE SLOTTED HOLES TO ACCOMMODATE 1–INCH ANCHOR BOLTS, AND 11 1/2" BOLT CIRCLE WITH MINIMUM CLEARANCE OF 1" BETWEEN BOLT AND POLE.

   HANDHOLE CENTER SHALL BE LOCATED APPROXIMATELY 12 INCHES FROM THE BASE PLATE, ROTATED 270 DEGREES FROM MAST ARM SO AS THE HANDHOLE IS LOCATED ON THE SIDE OPPOSING ONCOMING TRAFFIC.

   b. STRENGTH

   POLES SHALL MEET ALL STRENGTH REQUIREMENTS OF AASHTO FOR 90 MPH ISOTACH WHEN USED WITH A LUMINAIRE WEIGHING 48 POUNDS WITH A E.P.A. OF 1.1 SQUARE FEET. ALL ATTACHING BOLTS AND SCREWS THAT ARE NOT GALVANIZED SHALL BE STAINLESS STEEL.

   c. FINISH

   THE POLES AND ALL HARDWARE SAHALL BE HOT DIPPED GALVANIZED, MINIMUM 3 MIL THICKNESS.

   d. MAST ARM ATTACHMENT SHALL BE SECURED BY 3 BOLTS.

   e. EACH POLE SHALL HAVE HANDHOLE (WITH COVER), GROUND LUG AND REMOVABLE POLE CAP.

   f. EACH CITY POLE SHALL HAVE A BLACK 4" TO 6" LETTER C STENCILED ON ROADWAY SIDE OF POLE 16" ABOVE GRADE.

2. ANCHORAGE

   a. POLES SHALL BE ANCHORED WITH 4 BOLTS, 1"X36"X4" #8UNC WITH HOT DIPPED GALVANIZING AFTER THREADS ARE CUT. GALVANIZED AREA SHALL EXTEND FROM THREADED END FOR A MINIMUM OF 12 INCHES. BOLTS SHALL BE PROVIDED WITH 2 GALVANIZED NUTS AND FLAT WASHERS FOR LEVELING. SHIMS WILL NOT BE USED.

   b. A NON–SHRINKING GROUT SHALL BE INSTALLED WITH ONE 1/2" DRAIN HOLE UNDER THE BASE PLATE AFTER THE ENGINEER HAS APPROVED THE POLE INSTALLATION.

3. CONDUIT

   ALL CONDUIT SHALL BE BURIED A MINIMUM OF 24 INCHES DEEP. ALL ROADWAY CROSSINGS SHALL BE RIGID METALLIC OR SCHEDULE 80 PVC. CONDUIT SHALL CONFORM TO SECTION 9–29 OF WSDOT STANDARD SPECIFICATIONS. SCHEDULE 80 PVC MAY BE USED IN LOCATIONS OTHER THAN ROADWAY CROSSINGS.

CITY OF PUYALLUP — DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS — STREET LIGHT SPECIFICATIONS — DRAWN BY JIM ERWIN-SVOBODA; CHECKED BY LINDA LIAN; APPROVED BY COLLEEN HARRIS; REVISED BY LINDA LIAN — CITY STANDARD 01.05.01

1 STREET LIGHT SPECIFICATIONS
SCALE:NTS

(STR LIGHT SPECS CONTINUED)

4. JUNCTION BOXES (WHEN REQUIRED)

   JUNCTION BOXES SHALL BE INSTALLED AT LOCATIONS AS SHOWN ON THE PLANS. THEY WILL CONFORM TO WSDOT STANDARD PLAN J–40.10–02, TYPE 1. THEY SHALL BE LEVEL WITH THE SIDEWALK GRADE AND FIRMLY BEDDED TO PREVENT FUTURE SETTLING. JUNCTION BOXES ARE PREFERRED NOT TO BE INSTALLED IN THE SIDEWALK. THE COVER SHALL BE GALVANIZED AND GROUNDED. THE LETTERS "LT" SHALL BE ETCHED ON THE COVER. (SEE CITY STANDARD DETAIL NO. 01.06.01). IF THE JUNCTION BOX IS NOT IN THE SIDEWALK THEN IT SHALL HAVE A CONCRETE COLLAR. IF THE JUNCTION BOX IS IN THE SIDEWALK THEN IT SHALL HAVE A NON–SLIP SURFACE TREATMENT. SEE CITY STANDARD DETAIL NO. 01.06.01.

5. CONDUCTORS, WIRES, ETC.

   WIRE CONDUCTORS FOR UNDERGROUND FEEDER RUNS AND FOR CIRCUITRY FROM THE IN–LINE FUSE IN THE POLES TO THE JUNCTION BOX SHALL BE 600 VOLT, SINGLE CONDUCTOR STRANDED COPPER AND INSULATED WITH USE GRADE POLYVINYL CHLORIDE COMPOUND (XLP) OR APPROVED EQUAL IN ACCORDANCE WITH THE INSULATED POWER CABLE ENGINEER'S ASSOCIATION SPECIFICATIONS. AN AWG NO. 8 GREEN INSULATED STRANDED COPPER WIRE WILL BE RUN TO THE SERVICE GROUND LUG ON EACH POLE. FEEDERS SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. WIRES INSIDE THE POLE BETWEEN BALLAST AND IN–LINE FUSES SHALL BE ROME 2C AWG 10 STRANDED POLE AND BRACKET WIRE OR APPROVED EQUAL. SPLICES WILL BE ALLOWED IN JUNCTION BOXES AND POLE BASES ONLY. NO MORE THAN 2 CONDUITS WILL BE ALLOWED INSIDE THE STREET POLE.

6. FUSES

   LUMINARE FUSING AND ELECTRICAL CONNECTIONS AT LIGHT STANDARD BASES SHALL CONFORM TO SECTION 9–29.7 OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS AND AS SHOWN ON THE UNIFORM LUMINARE WIRING DETAIL IN THE APPENDIX. IN–LINE FUSE HOLDERS SHALL BE SEC MODEL 1791–SF WITH FNM–5 FUSES OR APPROVED EQUAL. (REFER TO CITY STANDARD DETAIL NO. 01.06.01)

7. LUMINAIRES AND LAMPS

   RESIDENTIAL STREETS AND NEIGHBORHOOD COLLECTORS:
   LEOTEK LED GC1–40E–MV–NW–2–530 (67 WATT LED)

   ARTERIALS AND COMMERCIAL COLLECTORS:
   GE EVOLVE LED ERS2–E–0–HX–EX–5–40 (130 WATT LED)

   THE CITY WILL ENERGIZE THE STREET LIGHTS WHEN A HOME IS OCCUPIED ADJACENT TO A STREET LIGHT OR IMMEDIATELY ACROSS THE STREET. AT THE DEVELOPER'S REQUEST, STREET LIGHTS MAY BE ENERGIZED PRIOR TO OCCUPANCY OF HOMES. HOWEVER, THE DEVELOPER OR BUILDER SHALL ASSUME FULL RESPONSIBILITY FOR ELECTRICAL POWER COSTS AND REPAIR COSTS DUE TO VANDALISM, THEFT, OR CONSTRUCTION.

8. SAFE WIRING LABELS

   THE CONTRACTOR IS ADVISED THAT SAFE WIRING LABELS REQUIRED BY LABOR AND INDUSTRIES SHALL APPLY ON THIS PROJECT. (ELECTRICAL INSPECTION STICKER)

9. GUARANTEE

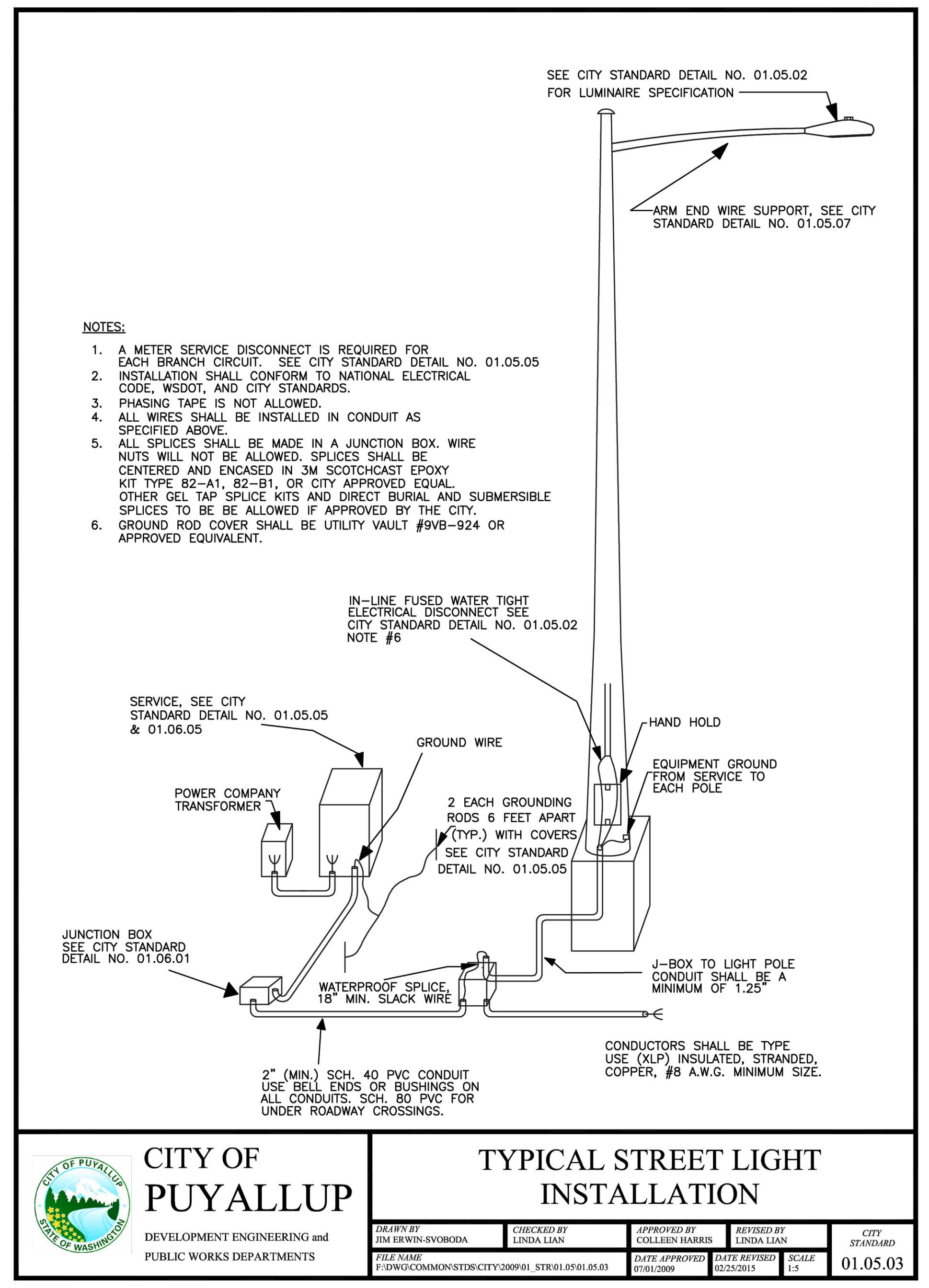
   THE CONTRACTOR SHALL SURRENDER TO THE CITY OF PUYALLUP ANY GUARANTEE OR WARRANTY ACQUIRED BY HIM AS A NORMAL TRADE PRACTICE IN CONNECTION WITH THE PURCHASE OF ANY MATERIALS OR ITEMS USED IN THE CONSTRUCTION OF THE ILLUMINATION.

10. LOCATION

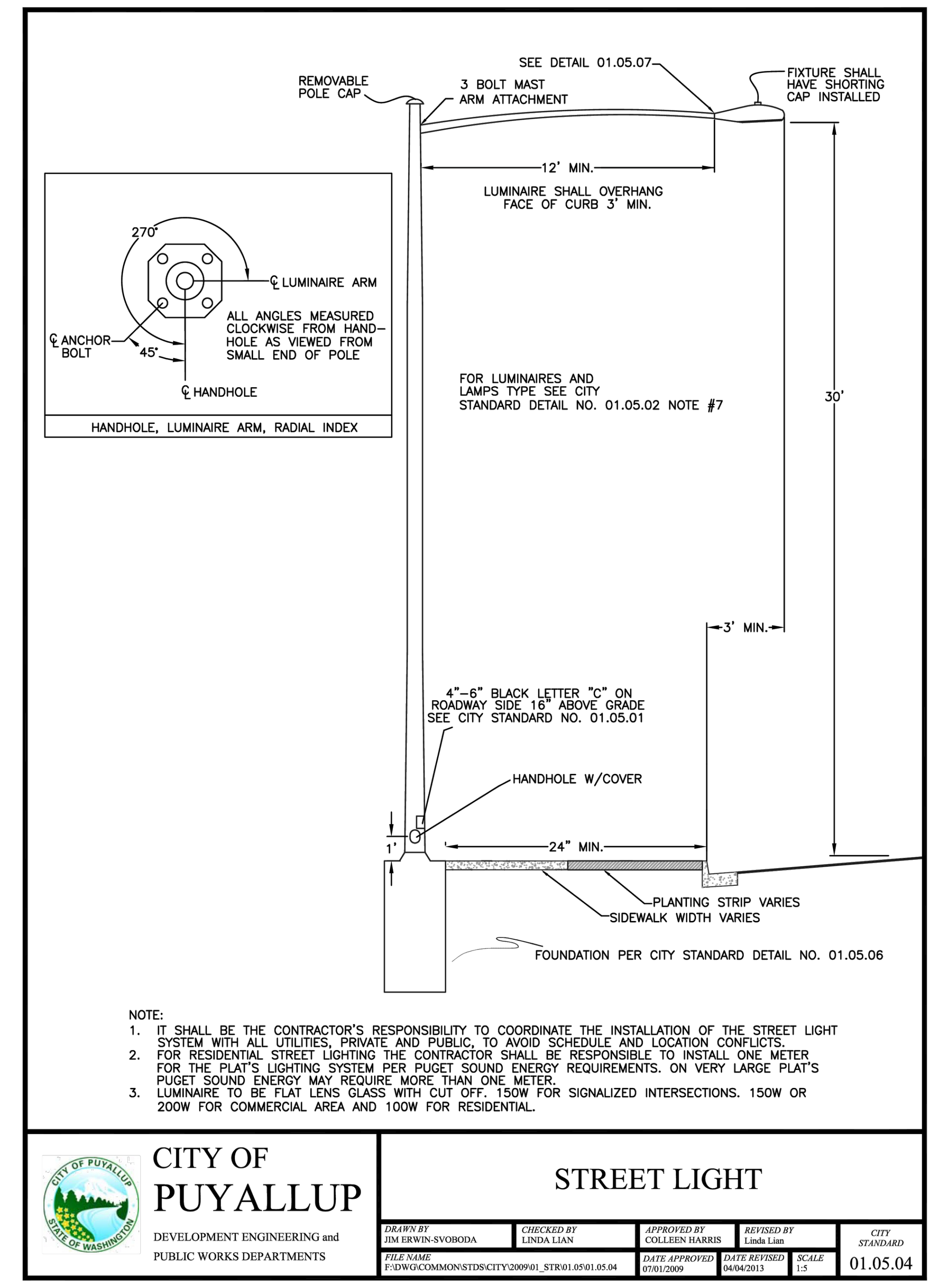
   SEE CITY STANDARD SECTION 01.01 ROADWAY DESIGN.

CITY OF PUYALLUP — DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS — STREET LIGHT SPECIFICATIONS (CONT.) — DRAWN BY JIM ERWIN-SVOBODA; CHECKED BY LINDA LIAN; APPROVED BY COLLEEN HARRIS; REVISED BY LINDA LIAN — CITY STANDARD 01.05.02

2 STREET LIGHT SPECIFICATIONS (CONT.)
SCALE:NTS



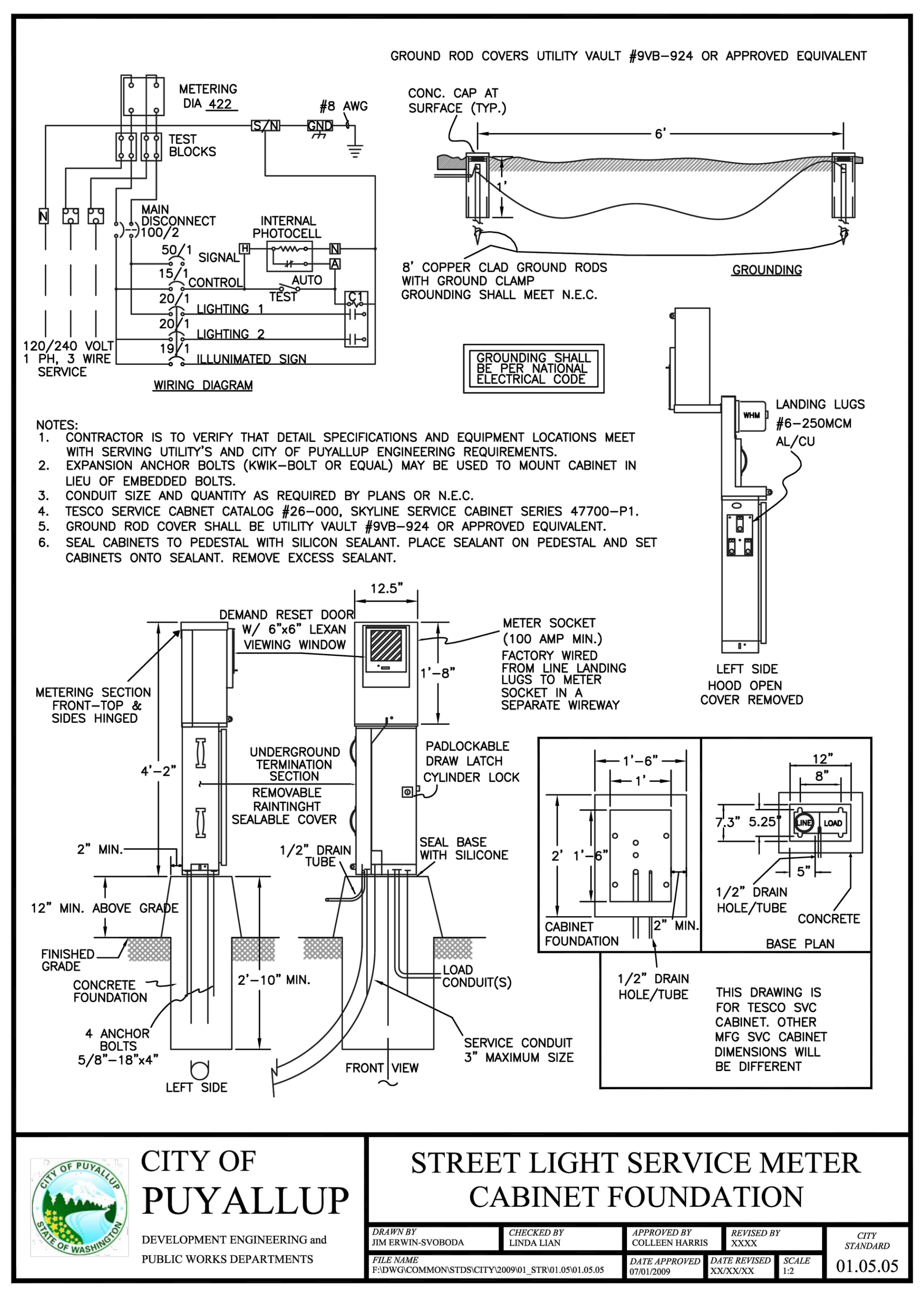
3 TYPICAL STREET LIGHT INSTALLATION
SCALE:NTS



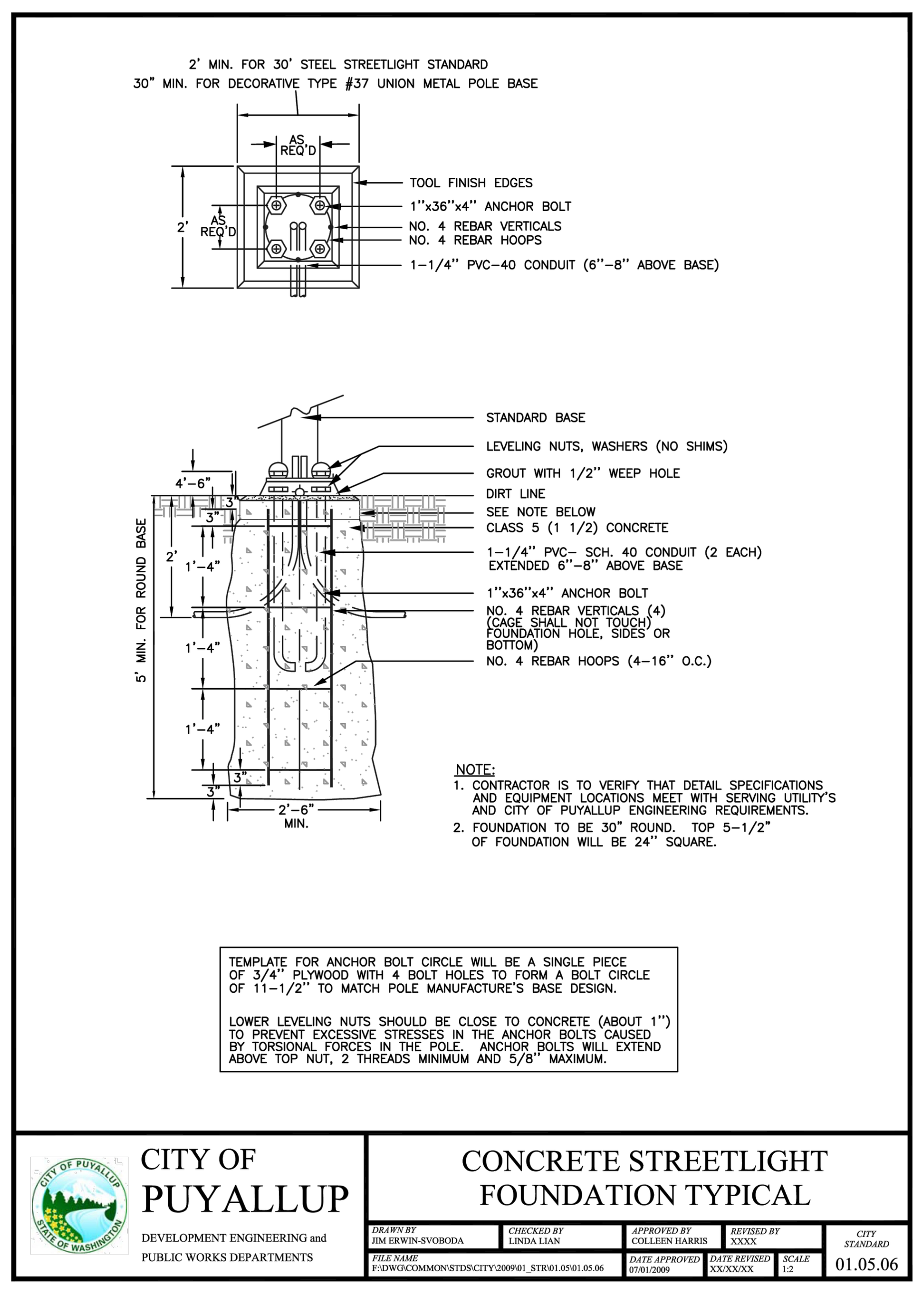
4 STREET LIGHT
SCALE:NTS

ILLUMINATION NOTES:

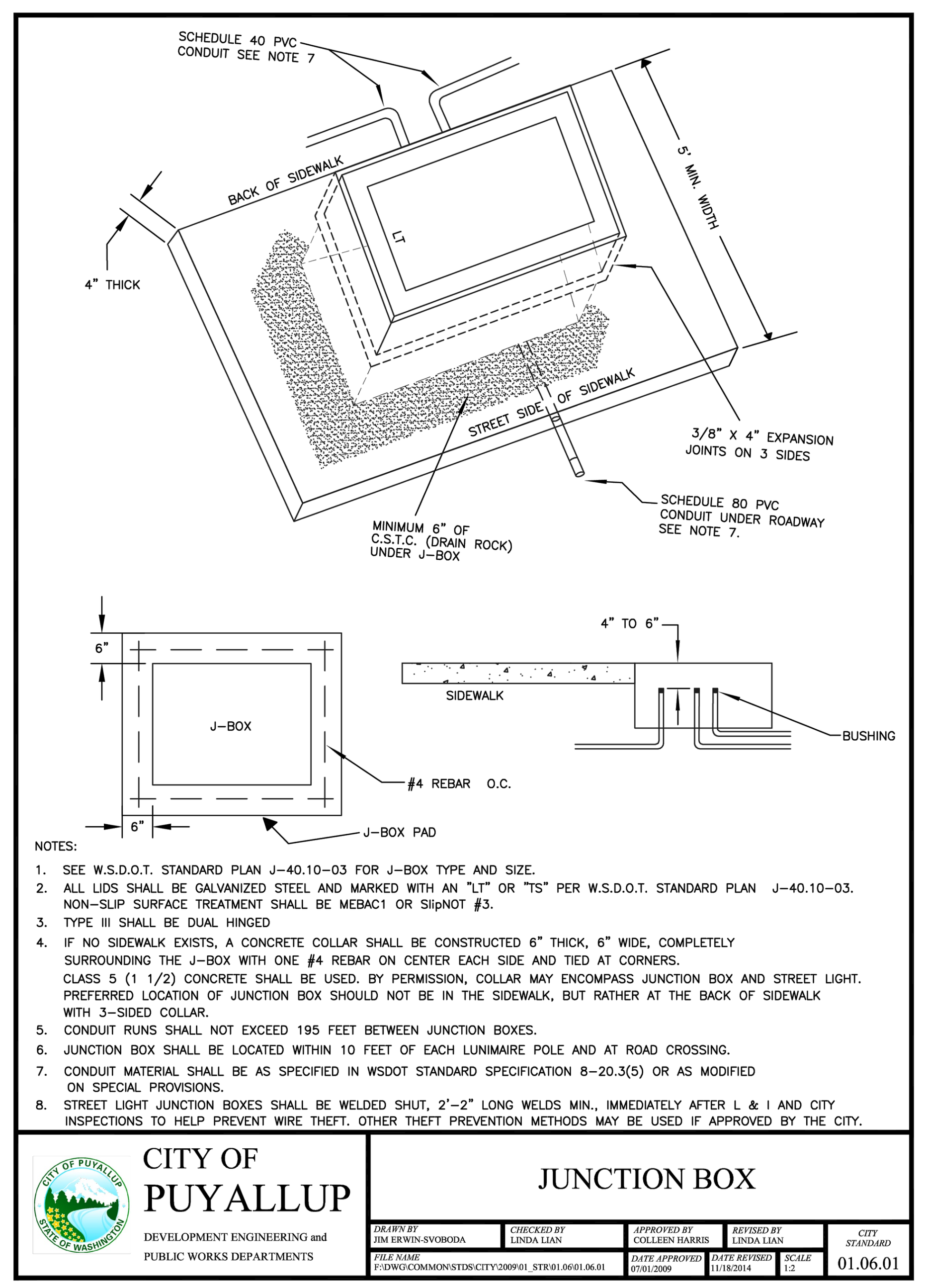
1. ALL WORK SHALL BE IN ACCORDANCE WITH CITY OF PUYALLUP PUBLIC WORKS STANDARDS AND WSDOT STANDARDS AND SPECIFICATIONS.
2. THE LOCATIONS OF FEATURES SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION START.
3. UTILITY LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ANY ILLUMINATION WORK.
4. ALL WORK SHALL BE CONSISTENT WITH UTILITY AGENCY REQUIREMENTS. THE CONTRACTOR SHALL COORDINATE WITH AFFECTED UTILITY AGENCIES THROUGHOUT THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES.
5. CONDUIT LOCATIONS ARE SHOWN FOR ILLUSTRATIVE PURPOSES. ACTUAL LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD.
6. CONTRACTOR SHALL COORDINATE WITH THE CITY SIGNAL/ILLUMINATION TECHNICIAN AT 253.405.4390 PRIOR TO CONSTRUCTION.
7. THE LOCATION OF ALL CONDUITS, JUNCTION BOXES, POLES, AND CABINETS SHOWN ON THIS PLAN MAY BE ADJUSTED IN THE FIELD TO AVOID CONFLICTS AND MEET ADA REQUIREMENTS. ALL FINAL LOCATIONS SHALL BE APPROVED BY THE CITY TRAFFIC ENGINEER PRIOR TO CONSTRUCTION.
8. JUNCTION BOX LOCATIONS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. JUNCTION BOXES SHALL BE FIELD LOCATED BY THE CONTRACTOR WITH DIRECTION FROM THE CITY.
9. CONTRACTOR SHALL ADJUST JUNCTION BOX LIDS TO BE FLUSH WITH TOP OF SIDEWALK.
10. ANY NEW JUNCTION BOX WHICH WILL BE LOCATED WITHIN OR PARTIALLY WITHIN SIDEWALK SHALL HAVE LIDS AND FRAMES WITH A NON-SLIP COATING ON THE TOP SURFACE EQUAL TO MEBAC1 OR SLIPNOT#3.



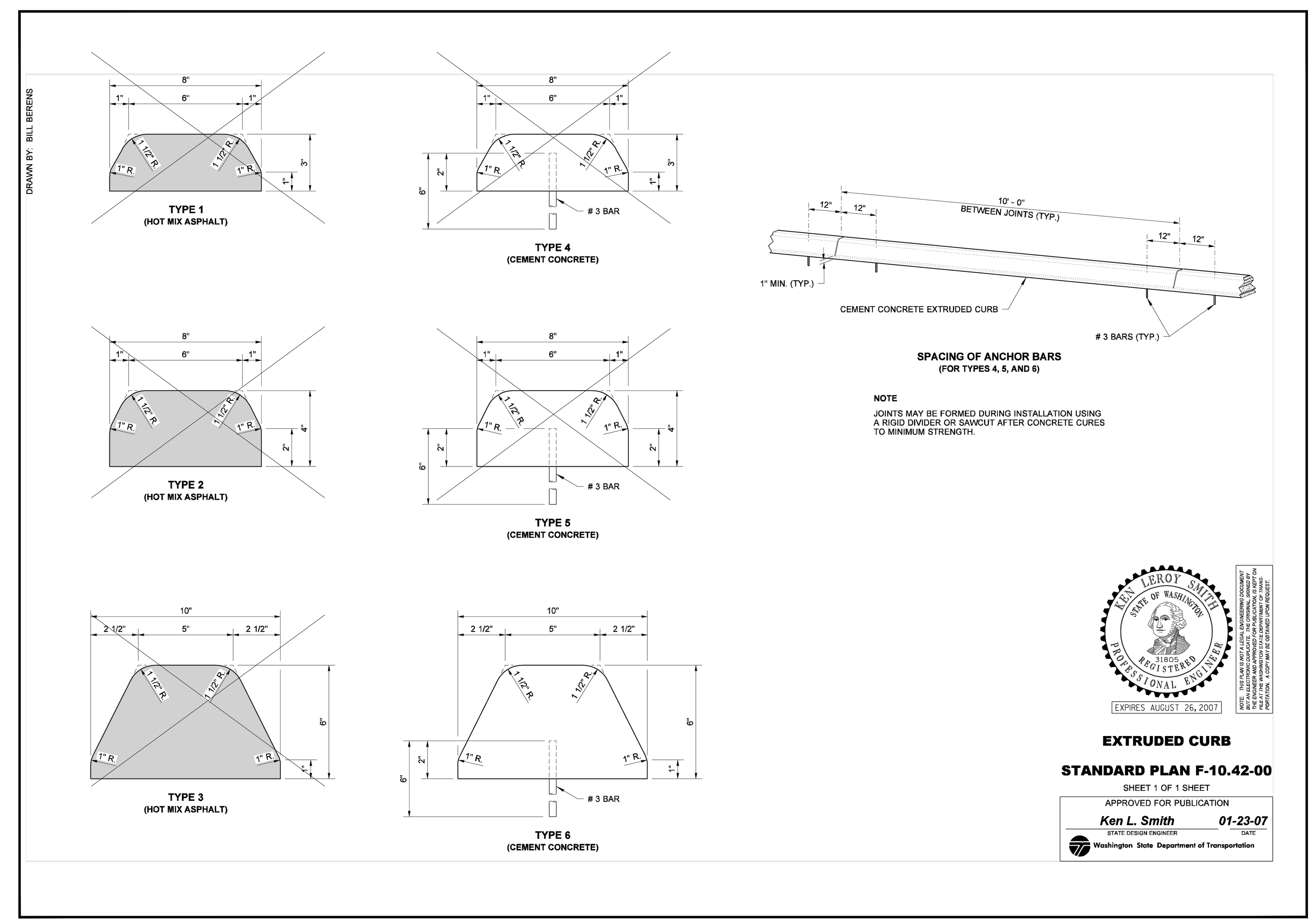
5 STREET LIGHT SERVICE METER CABINET FOUNDATION
SCALE:NTS



6 CONCRETE STREETLIGHT FOUNDATION TYPICAL
SCALE:NTS



7 JUNCTION BOX
SCALE:NTS



8 EXTRUDED CURB DETAILS
SCALE:NTS

APPROVED

BY ______ CITY OF PUYALLUP DEVELOPMENT ENGINEERING

DATE ______

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

McInnis ENGINEERING
mcinnisengineering.com
253.414.1992
202 East 34th Street
Tacoma, Washington 98404

2401 INTER NOTES AND DETAILS

2401 INTER AVE SE PUYALLUP, WA 98372

JEFFREY W. McINNIS, STATE OF WASHINGTON, 37390, REGISTERED PROFESSIONAL ENGINEER, 8/22/2025

NUM	DATE	DESCRIPTION
V1	01/24/25	INITIAL RELEASE
V2	06/23/25	SECOND RELEASE

DESIGNED W. MCINNIS	SCALE N.T.S.
DRAWN W. MCINNIS	CHECKED J. MCINNIS
DATE 9/17/2025	APPROVED J. MCINNIS

JOB NO. 24-166

SHEET C10 OF C14

C10

CALL BEFORE YOU DIG
1-800-424-5555 OR 811

2401 INTER

NOTES AND DETAILS

A PORTION OF THE SW 1/4 OF SECTION 26, TOWNSHIP 20 N, RANGE 4 E, W.M. PIERCE COUNTY, WA

PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER:	AVERY SCOTT 971-227-0854 AVERY.SCOTT@ADSPIPE.COM
ADS SALES REP:	JOE SHEEHY 253-255-6302 JOE.SHEEHY@ADSPIPE.COM
PROJECT NO:	S309928

Advanced Drainage Systems, Inc.

SiteAssist® FOR STORMTECH INSTALLATION INSTRUCTIONS VISIT OUR APP

2401 INTER

TACOMA, WA

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, "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 SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. 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 - 6" (150 mm) 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.

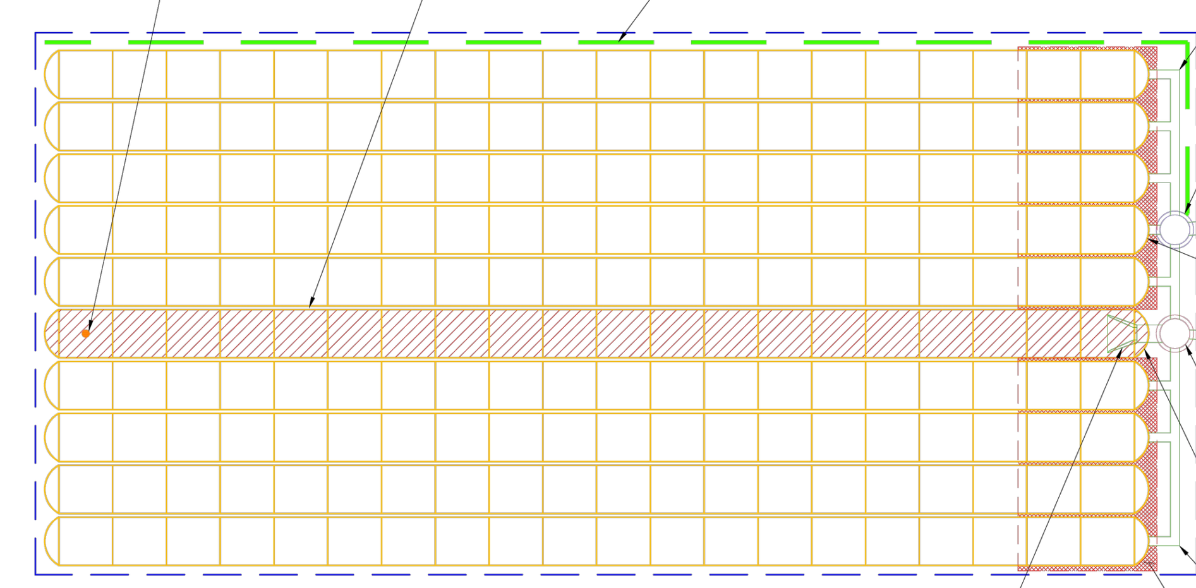
CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

1 STORMTECH DETAIL 1 OF 6
SCALE:NTS

PROPOSED LAYOUT	
200	STORMTECH MC-3500 CHAMBERS
20	STORMTECH MC-3500 END CAPS
12	STONE ABOVE (in)
9	STONE BELOW (in)
40	% STONE VOID
34,621	**INSTALLED SYSTEM VOLUME (CF) (EXCLUDES STORAGE VOLUME FROM STONE BELOW BOTTOM OF CHAMBER)**
11183	SYSTEM AREA (ft²)
454	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS	
68.75	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
62.75	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
62.25	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
62.25	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
62.25	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
61.75	TOP OF STONE
60.75	TOP OF MC-3500 CHAMBER
59.20	12" TOP MANIFOLD INVERT
57.17	24" ISOLATOR ROW PLUS CONNECTION INVERT
57.00	BOTTOM OF MC-3500 CHAMBER
57.00	UNDERDRAIN INVERT
56.25	BOTTOM OF STONE

NOTES
- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.



INSPECTION PORT
ISOLATOR ROW PLUS (SEE DETAIL)
6" ADS N-12 DUAL WALL PERFORATED HDPE UNDERDRAIN (SIZE TBD BY ENGINEER / SOLID OUTSIDE PERIMETER STONE)
12" X 12" ADS N-12 BOTTOM MANIFOLD INVERT 1.35" ABOVE CHAMBER BASE (SEE NOTES)
OUTLET STRUCTURE PER PLAN MAXIMUM OUTLET FLOW 6.0 CFS (DESIGN BY ENGINEER / PROVIDED BY OTHERS)
12" ADS N-12 TOP CONNECTION INVERT 26.36" ABOVE CHAMBER BASE (SEE NOTES)
ADS 45° N12 BEND
PROPOSED STRUCTURE W/ELEVATED BYPASS MANIFOLD MAXIMUM INLET FLOW 13.5 CFS (DESIGN BY ENGINEER / PROVIDED BY OTHERS)
24" PARTIAL CUT END CAP, PART# MC3500IEPP24BC OR MC3500IEPP24BW TYP OF ALL MC-3500 24" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS
12" X 12" ADS N-12 TOP MANIFOLD INVERT 26.36" ABOVE CHAMBER BASE (SEE NOTES / TYP 2 PLACES)
INSTALL FLAMP ON 24" ACCESS PIPE PART# MC350024RAMP
PLACE MINIMUM 17.5' OF ADSPLUS175 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

2401 INTER · TACOMA, WA · StormTech® Chamber System · 4640 TRUEMAN BLVD HILLIARD, OH 43026 · SHEET 2 OF 6

2 STORMTECH DETAIL 2 OF 6
SCALE:NTS

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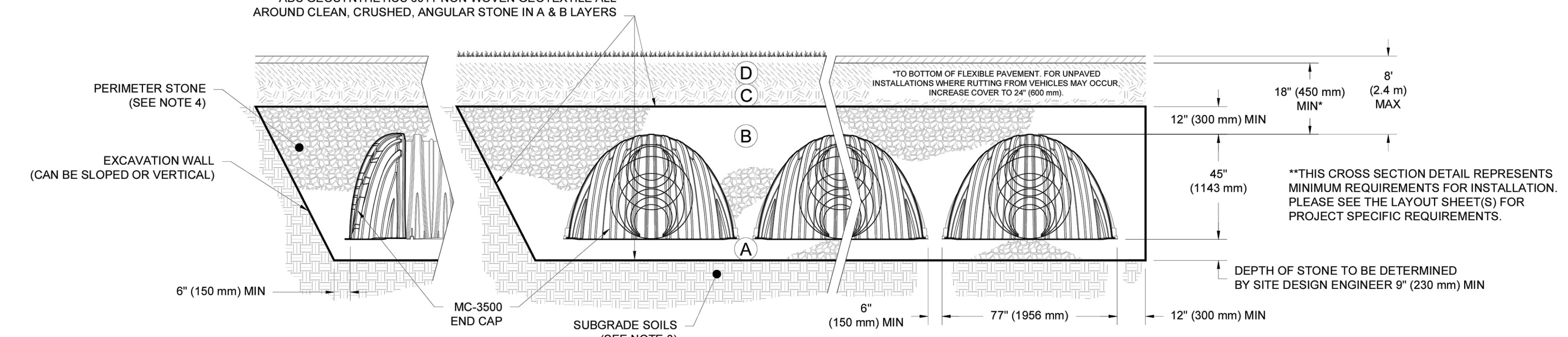
3 STORMTECH DETAIL 3 OF 6
SCALE:NTS

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.



ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE ALL AROUND CLEAN, CRUSHED, ANGULAR STONE IN A & B LAYERS
PERIMETER STONE (SEE NOTE 4)
EXCAVATION WALL (CAN BE SLOPED OR VERTICAL)
D
C
B
A
*TO BOTTOM OF FLEXIBLE PAVEMENT. FOR UNPAVED INSTALLATIONS WHERE RUTTING FROM VEHICLES MAY OCCUR, INCREASE COVER TO 24" (600 mm).
18" (450 mm) MIN*
8' (2.4 m) MAX
12" (300 mm) MIN
45" (1143 mm)
**THIS CROSS SECTION DETAIL REPRESENTS MINIMUM REQUIREMENTS FOR INSTALLATION. PLEASE SEE THE LAYOUT SHEET(S) FOR PROJECT SPECIFIC REQUIREMENTS.
DEPTH OF STONE TO BE DETERMINED BY SITE DESIGN ENGINEER 9" (230 mm) MIN
6" (150 mm) MIN
MC-3500 END CAP
SUBGRADE SOILS (SEE NOTE 3)
6" (150 mm) MIN
77" (1956 mm)
12" (300 mm) MIN

NOTES:
1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "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/FT/%. 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.

2401 INTER · TACOMA, WA · StormTech® Chamber System · 4640 TRUEMAN BLVD HILLIARD, OH 43026 · SHEET 4 OF 6

4 STORMTECH DETAIL 4 OF 6
SCALE:NTS

APPROVED

BY ______ CITY OF PUYALLUP DEVELOPMENT ENGINEERING

DATE ______

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

McINNIS ENGINEERING
mcinnisengineering.com
253.414.1992
202 East 34th Street
Tacoma, Washington 98404

2401 INTER NOTES AND DETAILS

2401 INTER AVE SE PUYALLUP, WA 98372

JEFFREY W. McINNIS · STATE OF WASHINGTON · 37390 · REGISTERED PROFESSIONAL ENGINEER · 8/22/2025

NUM	DATE	DESCRIPTION
V1	01/24/25	INITIAL RELEASE
V2	06/23/25	SECOND RELEASE

DESIGNED W. MCINNIS	SCALE N.T.S.
DRAWN W. MCINNIS	CHECKED J. MCINNIS
DATE 9/17/2025	APPROVED J. MCINNIS

JOB NO. 24-166

SHEET C11 OF C14

C11

CALL BEFORE YOU DIG
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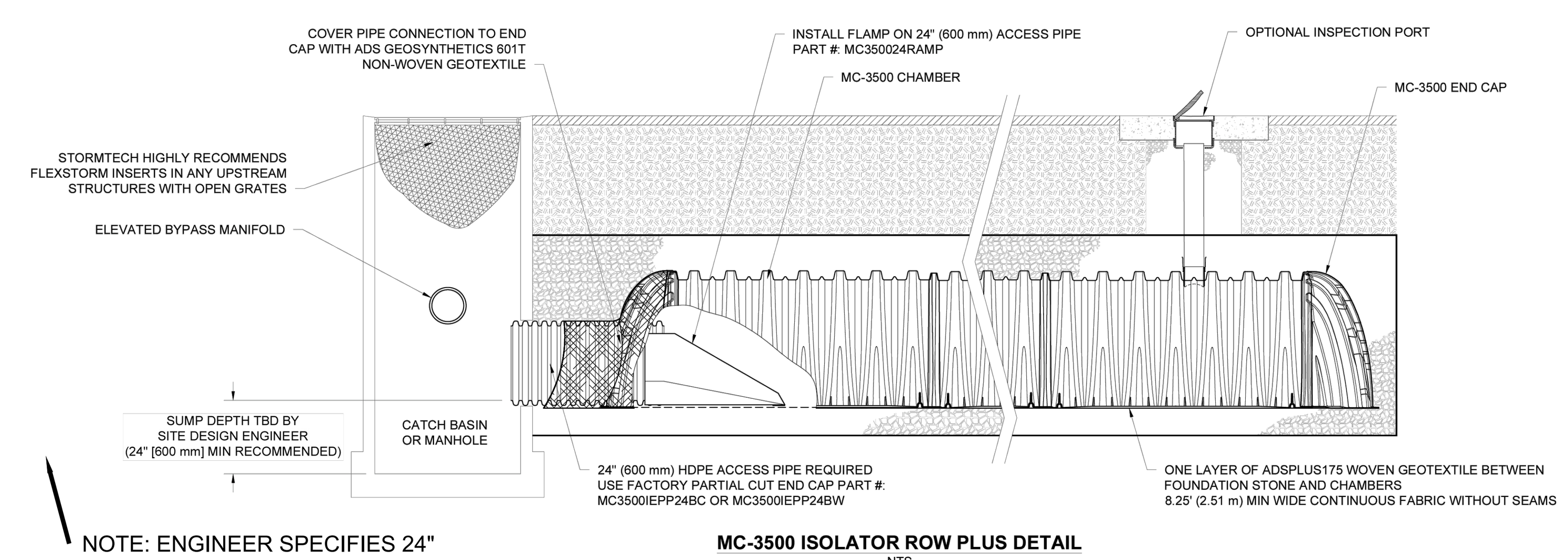
2401 INTER
NOTES AND DETAILS

A PORTION OF THE SW 1/4 OF SECTION 26, TOWNSHIP 20 N, RANGE 4 E, W.M. PIERCE COUNTY, WA



NOTE: ENGINEER SPECIFIES 24"

MC-3500 ISOLATOR ROW PLUS DETAIL
NTS

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.

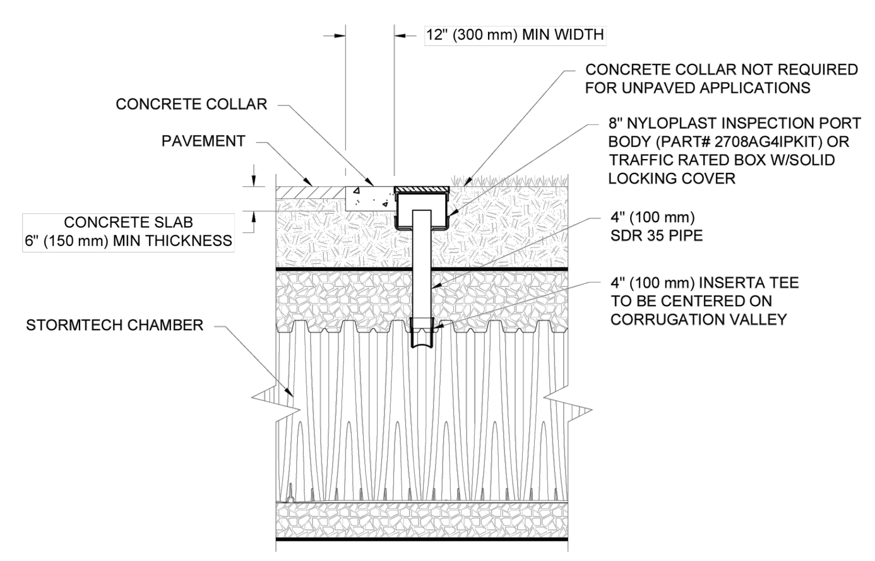
STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

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.



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

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

2401 INTER — TACOMA, WA — DATE: 9/21/22 — DRAWN: HAK — PROJECT #: S309928 — CHECKED: RWD

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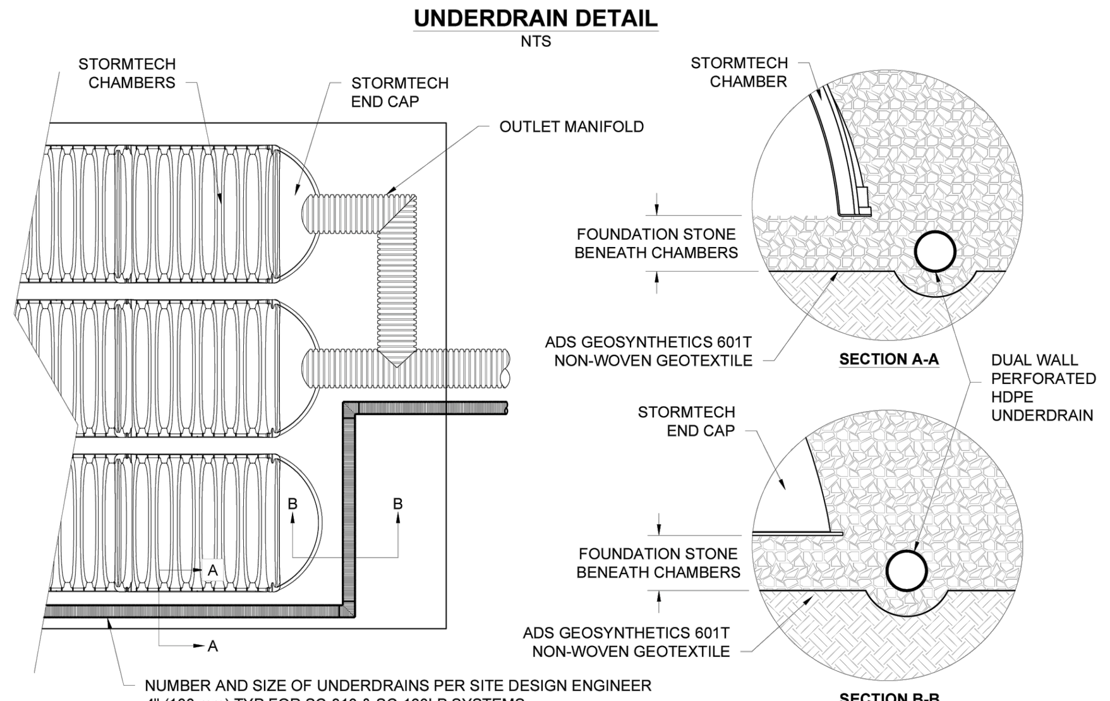
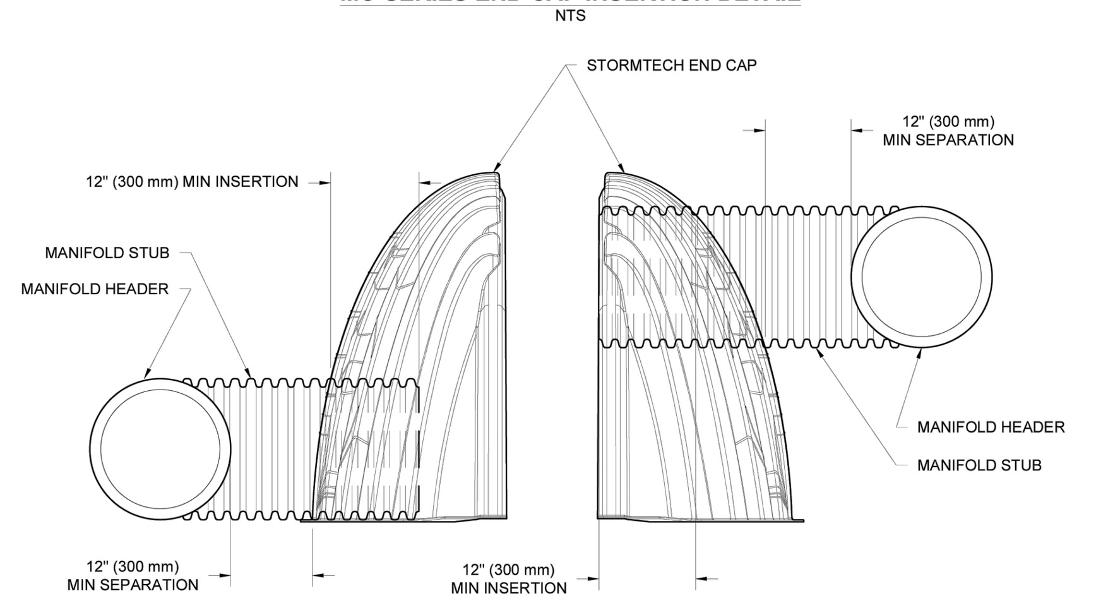
SHEET 5 OF 6

1 — STORMTECH DETAIL 5 OF 6
SCALE:NTS

UNDERDRAIN DETAIL
NTS

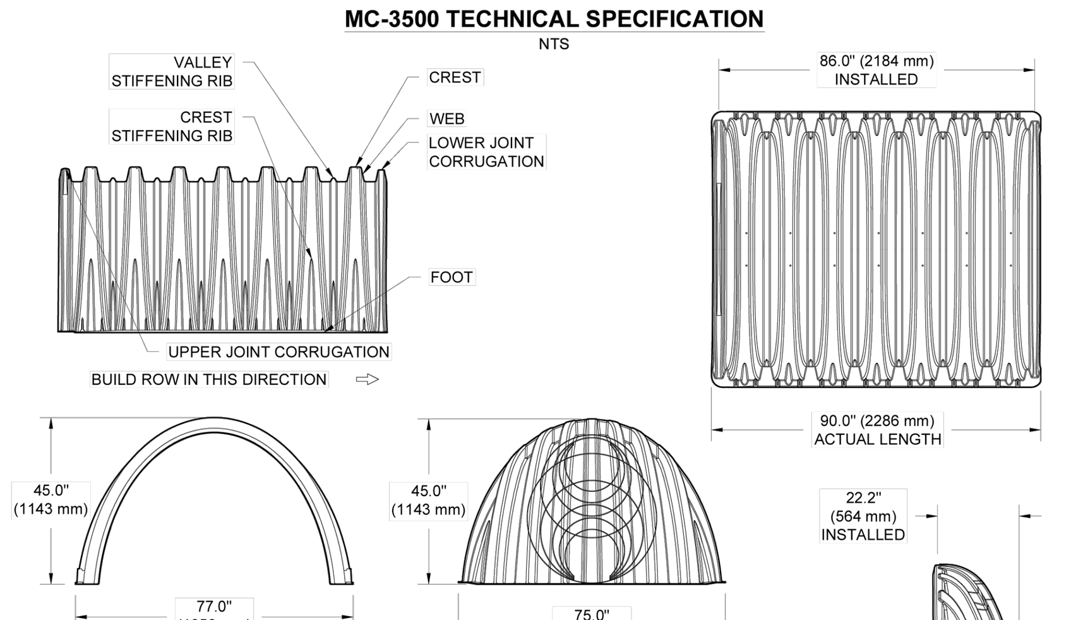


MC-SERIES END CAP INSERTION DETAIL
NTS



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

MC-3500 TECHNICAL SPECIFICATION
NTS



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.

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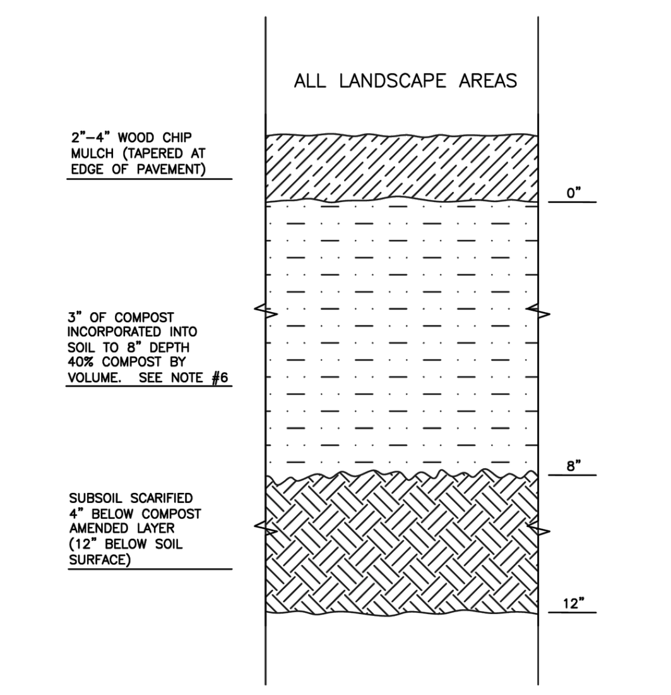
SHEET 6 OF 6

2 — STORMTECH DETAIL 6 OF 6
SCALE:NTS

PARTS LIST
20 - ENDCAPS (INCLUDING ISOLATOR ROW)
200 - MC-3500 CHAMBERS (INCLUDING ISOLATOR ROW)
1 - INSPECTION PORT
8 - OUTLET MANIFOLD
4 - 6" HDPE UNDERDRAIN



NOTES:
1. ALL SOIL AREAS DISTURBED OR COMPACTED DURING CONSTRUCTION, AND NOT COVERED BY BUILDINGS OR PAVEMENT, SHALL BE AMENDED WITH COMPOST AS DESCRIBED BELOW.
2. SUBSOIL SHOULD BE SCARIFIED (LOOSENED) 4 INCHES BELOW AMENDED LAYER, TO PRODUCE 12–INCH DEPTH OF UN–COMPACTED SOIL, EXCEPT WHERE SCARIFICATION WOULD DAMAGE TREE ROOTS OR AS DETERMINED BY THE ENGINEER. SEE NOTE BELOW REGARDING PLANTING STEPS FOR STREET TREES.
3. COMPOST SHALL BE TILLED IN TO 8 INCH DEPTH INTO EXISTING SOIL, OR PLACE 8 INCHES OF COMPOST–AMENDED SOIL, PER SOIL SPECIFICATION.
4. PLANTING BEDS SHALL RECEIVE 3 INCHES OF COMPOST TILLED IN TO 8–INCH DEPTH, OR MAY SUBSTITUTE 8" OF IMPORTED SOIL CONTAINING 35–40% COMPOST BY VOLUME. MULCH AFTER PLANTING, WITH 4 INCHES OF ARBORIST WOOD CHIP MULCH OR APPROVED EQUAL (6" OF LOOSE WOOD CHIPS AT THE TIME OF PLANTING TO ALLOW SETTLING TO 4").
5. SETBACKS: TO PREVENT UNEVEN SETTLING, DO NOT COMPOST–AMEND SOILS WITHIN 3 FEET OF UTILITY INFRASTRUCTURES (POLES, VAULTS, METERS ETC.). WITHIN ONE FOOT OF PAVEMENT EDGE, CURBS AND SIDEWALKS SOIL SHOULD BE COMPACTED TO APPROXIMATELY 95% PROCTOR TO ENSURE A FIRM SURFACE.
6. SEE SECTION 8.2(B) OF THE VMS FOR SOIL AMENDMENT AND INSTRUCTION PROCEDURES FOR STREET TREE PLANTER STRIPS. ALL STREET TREE PLANTER STRIPS SHALL RECEIVE 40% COMPOST AMENDED SOIL TO THE FULL DEPTH OF THE STREET TREE ROOTBALL.

CITY OF PUYALLUP — DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

SOIL AMENDMENT AND DEPTH

DRAWN BY LINDA LIAN — CHECKED BY CHRIS BEALE — APPROVED BY COLLEEN HARRIS — REVISED BY XXXX — CITY STANDARD 01.02.08a

3 — SOIL AMENDMENT AND DEPTH
SCALE:NTS

SOIL AMENDMENT NOTES

1. SOIL RETENTION. RETAIN IN A UNDISTURBED STATE, THE DUFF LAYER AND NATIVE TOPSOIL TO THE MAXIMUM EXTENT PRACTICABLE. IN ANY AREAS REQUIRING GRADING REMOVE AND STOCKPILE THE DUFF LAYER AND TOPSOIL ON SITE IN A DESIGNATED, CONTROLLED AREA, NOT ADJACENT TO PUBLIC RESOURCES AND CRITICAL AREAS, TO BE REAPPLIED TO OTHER PORTIONS OF THE SITE WHERE FEASIBLE.
2. SOIL QUALITY. ALL AREAS SUBJECT TO CLEARING AND GRADING THAT HAVE NOT BEEN COVERED BY IMPERVIOUS SURFACE, INCORPORATED INTO A DRAINAGE FACILITY OR ENGINEERED AS STRUCTURAL FILL OR SLOPE SHALL, AT PROJECT COMPLETION, DEMONSTRATE THE FOLLOWING:
   - A. THE TOPSOIL LAYER WITH A MINIMUM ORGANIC MATTER CONTENT OF 10% DRY WEIGHT IN PLANTING BEDS, AND 5% ORGANIC MATTER CONTENT IN TURF AREAS, AND A PH FROM 6.0 TO 8.0 OR MATCHING THE PH OF THE UNDISTURBED SOIL. THE TOPSOIL LAYER SHALL HAVE A MINIMUM DEPTH OF EIGHT INCHES EXCEPT WHERE TREE ROOTS LIMIT THE DEPTH OF INCORPORATION OF AMENDMENTS NEEDED TO MEET THE CRITERIA. SUBSOILS BELOW THE TOPSOIL LAYER SHOULD BE SCARIFIED AT LEAST 4 INCHES WITH SOME INCORPORATION OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYERS, WHERE FEASIBLE.
   - B. MULCH PLANTING BEDS WITH 2 INCHES OF ORGANIC MATERIAL.
   - C. USE COMPOST AND OTHER MATERIALS THAT MEET THESE ORGANIC CONTENT REQUIREMENTS:
     - THE ORGANIC CONTENT FOR "PRE-APPROVED" AMENDMENT RATES CAN BE MET ONLY USING COMPOST MEETING THE COMPOST SPECIFICATION FOR BMP T7.30: BIORETENTION CELLS, SWALES, AND PLANTER BOXES, WITH THE EXCEPTION THAT THE COMPOST MAY HAVE UP TO 35% BIOSOLIDS OR MANURE. THE COMPOST MUST ALSO HAVE AN ORGANIC MATTER CONTENT OF 40% TO 65%, AND A CARBON TO NITROGEN RATIO BELOW 25:1. THE CARBON TO NITROGEN RATIO MAY BE AS HIGH AS 35:1 FOR PLANTINGS COMPOSED ENTIRELY OF PLANTS NATIVE TO THE PUGET SOUND LOWLANDS REGION.
     - CALCULATED AMENDMENT RATES MAY BE MET THROUGH USE OF COMPOSTED MATERIAL MEETING ABOVE; OR OTHER ORGANIC MATERIALS AMENDED TO MEET THE CARBON TO NITROGEN RATIO REQUIREMENTS, AND NOT EXCEEDING THE CONTAMINANT LIMITS IDENTIFIED ON TABLE 220-B, TESTING PARAMETERS, IN WAC 173-350-220.

   THE RESULTING SOIL SHOULD BE CONDUCTIVE TO THE TYPE OF VEGETATION TO BE ESTABLISHED.
3. IMPLEMENTATION OPTIONS: THE SOIL QUALITY DESIGN GUIDELINES LISTED ABOVE CAN BE MET BY USING ONE OF THE METHODS LISTED BELOW:
   - A. LEAVE UNDISTURBED NATIVE VEGETATION AND SOIL, AND PROTECT FROM COMPACTION DURING CONSTRUCTION.
   - B. AMEND EXISTING SITE TOPSOIL OR SUBSOIL EITHER AT DEFAULT "PRE-APPROVED" RATES, OR AT CUSTOM CALCULATED RATES BASED ON TESTS OF THE SOIL AND AMENDMENT.
   - C. STOCKPILE EXISTING TOPSOIL DURING GRADING, AND REPLACE IT PRIOR TO PLANTING. STOCKPILED TOPSOIL MUST ALSO BE AMENDED IF NEEDED TO MEET THE ORGANIC MATTER OR DEPTH REQUIREMENTS, EITHER AT A DEFAULT "PRE-APPROVED" RATE OR AT A CUSTOM CALCULATED RATE.
   - D. IMPORT TOPSOIL MIX OF SUFFICIENT ORGANIC CONTENT AND DEPTH TO MEET THE REQUIREMENTS.

   MORE THAN ONE METHOD MAY BE USED ON DIFFERENT PORTIONS OF THE SAME SITE. SOIL THAT ALREADY MEETS THE DEPTH AND ORGANIC MATTER QUALITY STANDARDS, AND IS NOT COMPACTED, DOES NOT NEED TO BE AMENDED.
4. MAINTENANCE
   - A. ESTABLISH SOIL QUALITY AND DEPTH TOWARD THE END OF CONSTRUCTION AND ONE ESTABLISHED, PROTECT FROM COMPACTION, SUCH AS FROM LARGE MACHINERY USE, AND FROM EROSION.
   - B. PLANT VEGETATION AND MULCH THE AMENDED SOIL AREA AFTER INSTALLATION.
   - C. LEAVE PLANT DEBRIS OR ITS EQUIVALENT ON THE SOIL SURFACE TO REPLENISH ORGANIC MATTER.
   - D. REDUCE AND ADJUST, WHERE POSSIBLE, THE USE OF IRRIGATION, FERTILIZERS, HERBICIDES AND PESTICIDES, RATHER THAT CONTINUING TO IMPLEMENT FORMERLY ESTABLISHED PRACTICES.

REFERENCE
VOLUME V-5.3.1, BMP T5.13 OF THE 2014 STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON.

APPROVED

BY ____________________
CITY OF PUYALLUP DEVELOPMENT ENGINEERING

DATE ____________________

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2401 INTER NOTES AND DETAILS

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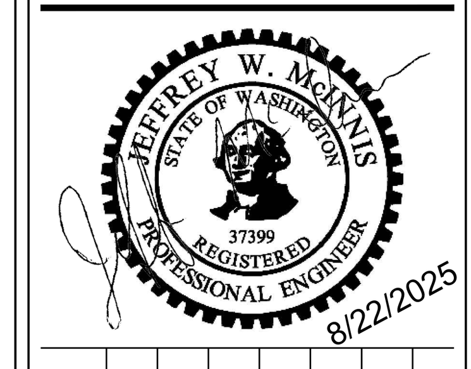

NUM	DATE	DESCRIPTION
V1	01/24/25	INITIAL RELEASE
V2	06/23/25	SECOND RELEASE

DESIGNED W. MCINNIS	SCALE N.T.S.
DRAWN W. MCINNIS	CHECKED J. MCINNIS
DATE 9/17/2025	APPROVED J. MCINNIS

JOB NO. 24-166

SHEET C12 OF C14

C12

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2401 INTER
NOTES AND DETAILS

A PORTION OF THE SW 1/4 OF SECTION 26, TOWNSHIP 20 N, RANGE 4 E, W.M. PIERCE COUNTY, WA

APPROVED

BY ______ CITY OF PUYALLUP DEVELOPMENT ENGINEERING

DATE ______

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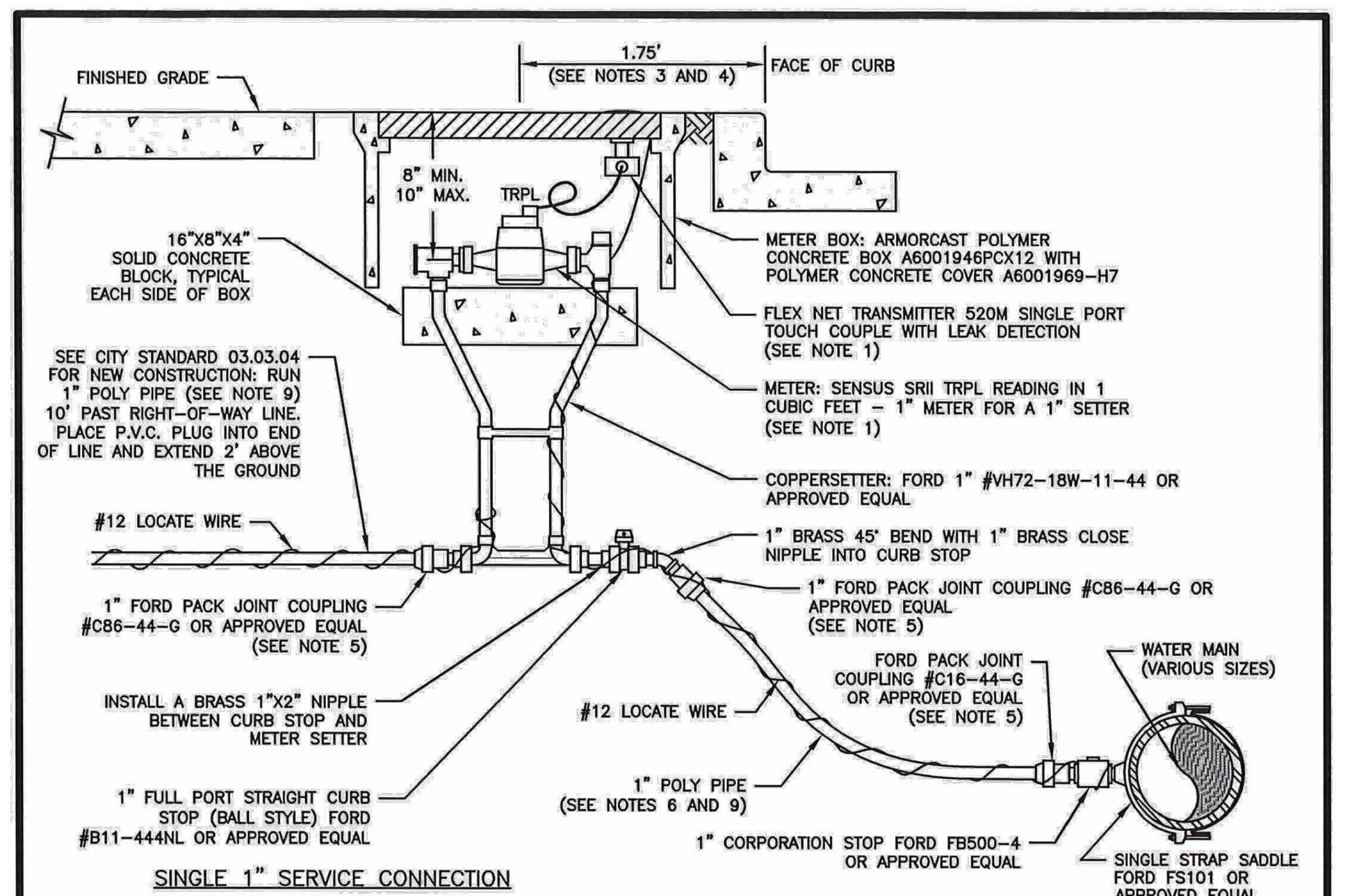
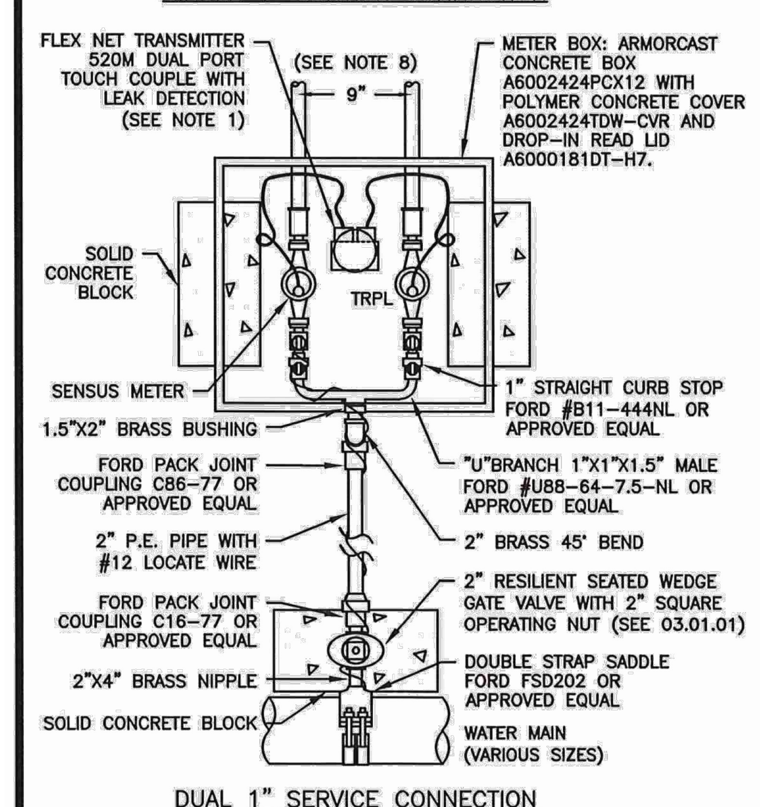




NOTES:

1. FOR SINGLE FAMILY RESIDENTIAL CONSTRUCTION, THE CITY SHALL SUPPLY AND INSTALL THE WATER METER AND TRANSMITTER AT THE TIME OF OCCUPANCY. FOR COMMERCIAL CONSTRUCTION, THE CONTRACTOR SHALL SUPPLY AND INSTALL THE METER AND TRANSMITTER.
2. ALL MATERIAL AND FITTINGS SHALL BE AS SPECIFIED OR AN APPROVED EQUAL.
3. NORMALLY THE WATER METER BOX SHOULD BE LOCATED IN THE PLANTING STRIP. IF SIDEWALK IS AGAINST THE CURB, PLACE METER BOX DIRECTLY BEHIND THE SIDEWALK.
4. THE WATER METER BOX SHALL NOT BE LOCATED IN HARD SURFACES. WHEN UNAVOIDABLE, EXCEPTIONS CAN BE MADE AT END OF CUL-DE-SACS OR PAN HANDLED LOTS. ANSI TIER 22 RATING REQ.
5. ALL COUPLINGS SHALL USE PIPE INSERT STIFFENERS.
6. THE WATER SERVICE LINE SHALL BE BEDDED IN WASHED SAND WITH 36" OF COVER BELOW FINISHED GRADE WITHIN THE RIGHT-OF-WAY. THE WATER SERVICE LINE SHALL BE ONE CONTINUOUS PIECE WITH NO SPLICES.
7. WATER MAIN SHALL HAVE A MINIMUM COVER OF 36" IN IMPROVED RIGHT-OF-WAY AND IMPROVED EASEMENTS, AND A MINIMUM COVER OF 48" IN UNIMPROVED RIGHT-OF-WAY AND UNIMPROVED EASEMENTS.
8. DUAL SERVICE SHALL BE CENTERED ON PROPERTY LINE.
9. ALL POLY PIPE SHALL BE HIGH DENSITY POLY (IRON PIPE SIZE) MEETING ASTM D-2239-SIDR 7, BLUE IN COLOR, 200 PSI MINIMUM.
10. ALL WATER SERVICE LINES SHALL BE INSTALLED PERPENDICULAR (90 DEGREES) TO THE POINT OF CONNECTION TO THE WATER MAIN.

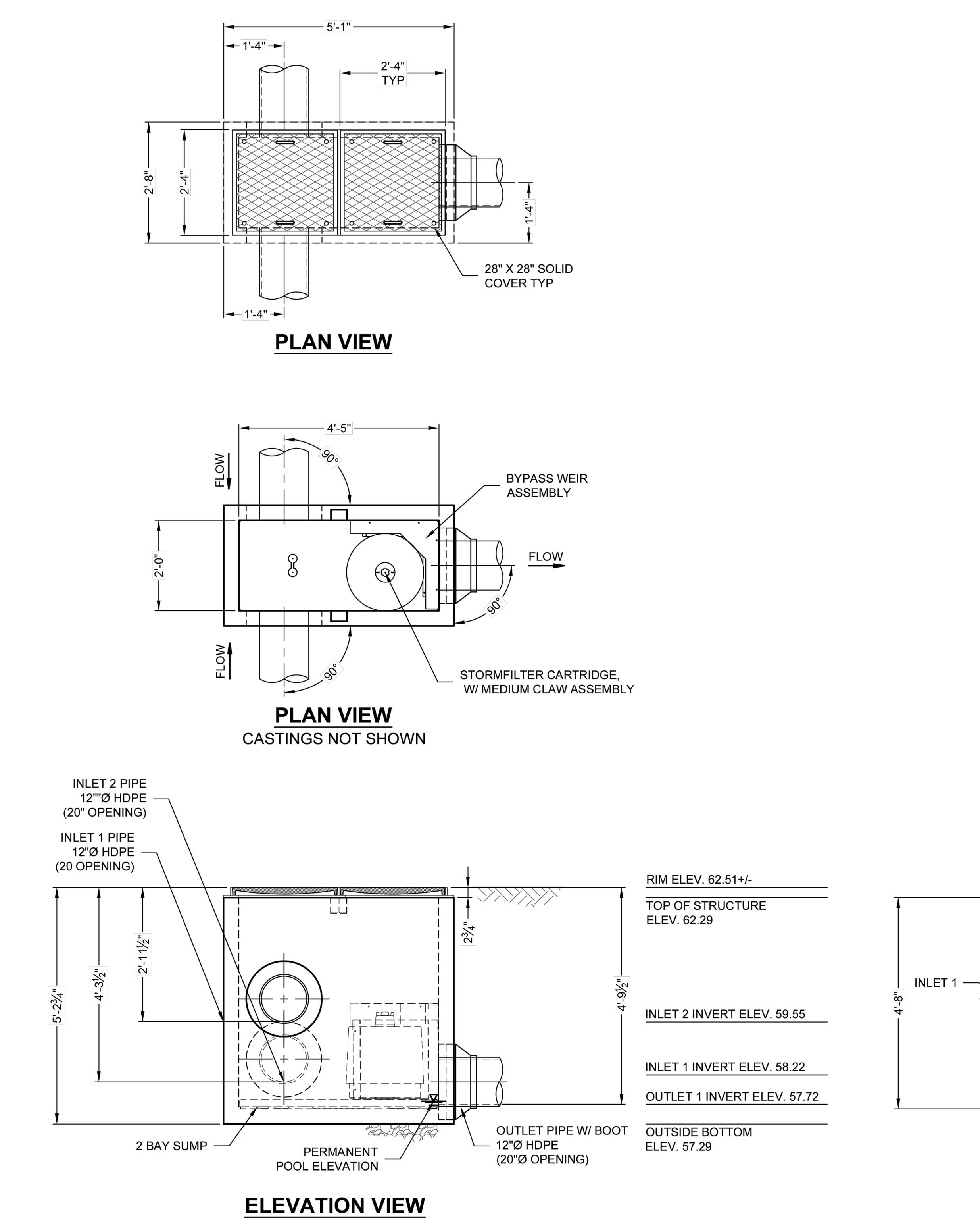
CITY OF PUYALLUP
PUBLIC WORKS AND DEVELOPMENT ENGINEERING

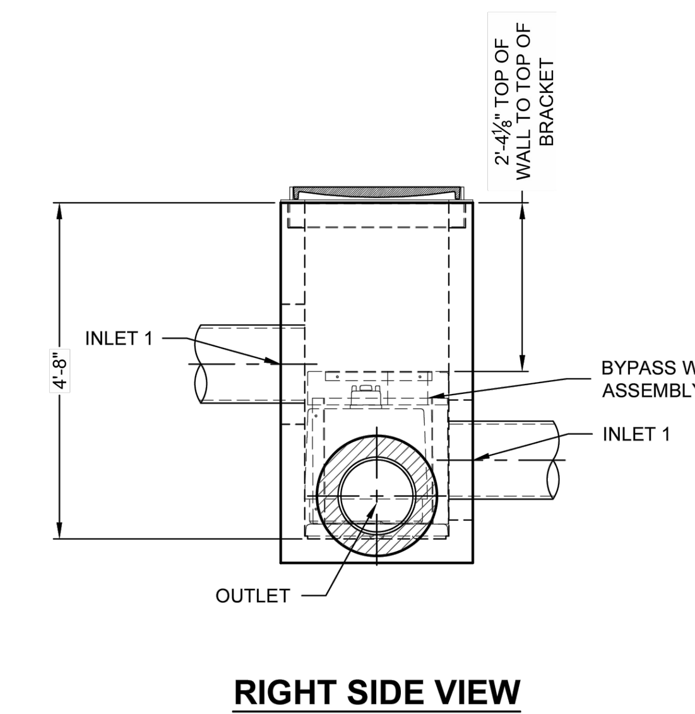
APPROVED FOR PUBLICATION

1"
WATER SERVICE CONNECTION
(NOT TO SCALE)
CITY STANDARD 03.03.01-2

1 — 1" WATER SERVICE CONNECTION
SCALE:NTS

2 — 2" AND SMALLER DOUBLE CHECK VALVE ASSEMBLY INSTALLATION
SCALE:NTS





MATERIAL LIST

COUNT	DESCRIPTION	INSTALLED BY
1	18", 7.5 gpm, ZPG, CARTRIDGE	CONTECH
1	RESTRICTOR DISK (BLUE POLY), 7.5 gpm	CONTECH
1	CLAW ASSEMBLY, MEDIUM	CONTECH
1	PLASTIC 2 BAY SUMP, WITH CONNECTORS	CONTECH
1	ALUMINUM 18" BYPASS WEIR	CONTECH
1	ALUMINUM BAFFLE	CONTECH
2	ALUMINUM BAFFLE SUPPORT	CONTECH
1	12" HDPE OUTLET PIPE BOOT S106-20BWP-EX	CONTECH
1	61" x 32" GALV. STEEL VAULT FRAME, EJ #00820990	CONTRACTOR
2	28" X 28" SOLID COVER, EJ #00820920	CONTRACTOR
1	SFCB-C SINGLE HARDWARE KIT	CONTECH

SITE DESIGN DATA

WATER QUALITY FLOW RATE	0.02 CFS
PEAK FLOW RATE	0.27 CFS
RETURN PERIOD OF PEAK FLOW	100 YRS
FILTER MEDIA TYPE	ZPG

PERFORMANCE SPECIFICATION
FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. **RADIAL MEDIA DEPTH SHALL BE 7-INCHES**. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST **38 SECONDS**. SPECIFIC FLOW RATE SHALL BE **1.00 GPM/SF (MAXIMUM)**. SPECIFIC FLOW RATE IS THE MEASURE OF THE FLOW (GPM) DIVIDED BY THE MEDIA SURFACE CONTACT AREA (SF). MEDIA VOLUMETRIC FLOW RATE SHALL BE **6 GPM/CF OF MEDIA (MAXIMUM).**

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
3. STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. STORMFILTER STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING WITH ASTM C-857 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 PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS AS SHOWN ON DRAWINGS.
D. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.

STRUCTURE WEIGHT
APPROXIMATE HEAVIEST PICK = 5000 LBS
MAX. FOOTPRINT: 5.08' x 2.67'.

STORMFILTER CATCHBASIN - CONCRETE
SFCBC-1 - 861482-15
2401 INTER AVE SE
PUYALLUP, WA
SITE DESIGNATION:

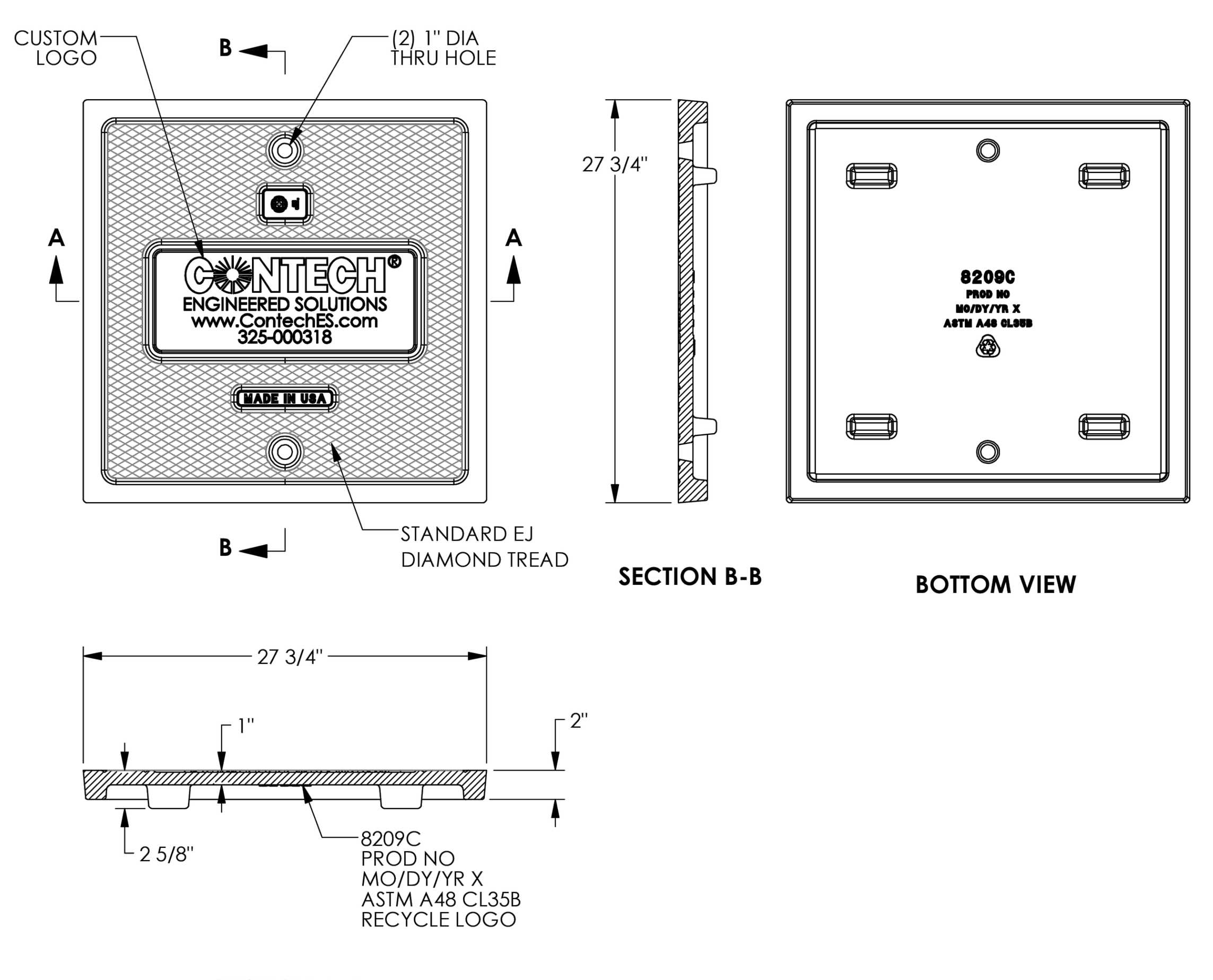
CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
StormFilter

DATE: 7/31/25
DESIGNED: JTN | DRAWN: JTN
CHECKED: JTN | APPROVED: JTN
PROJECT No.: 861482 | SEQUENCE No.: 15
SHEET: 1 OF 2

CONTECH PROPOSAL DRAWING
TBD
XXXX / XXXXXX

3 — CONTECH FILTER
SCALE:NTS

8209C Cover



Product Number
00820920

Design Features
-Materials
Gray Iron (CL35B)
-Load Rating
Heavy Duty HS25
-Open Area
n/a
-Coating
Undipped
-√ Designates Machined Surface

Certification
-ASTM A48
-
-
-Country of Origin: USA

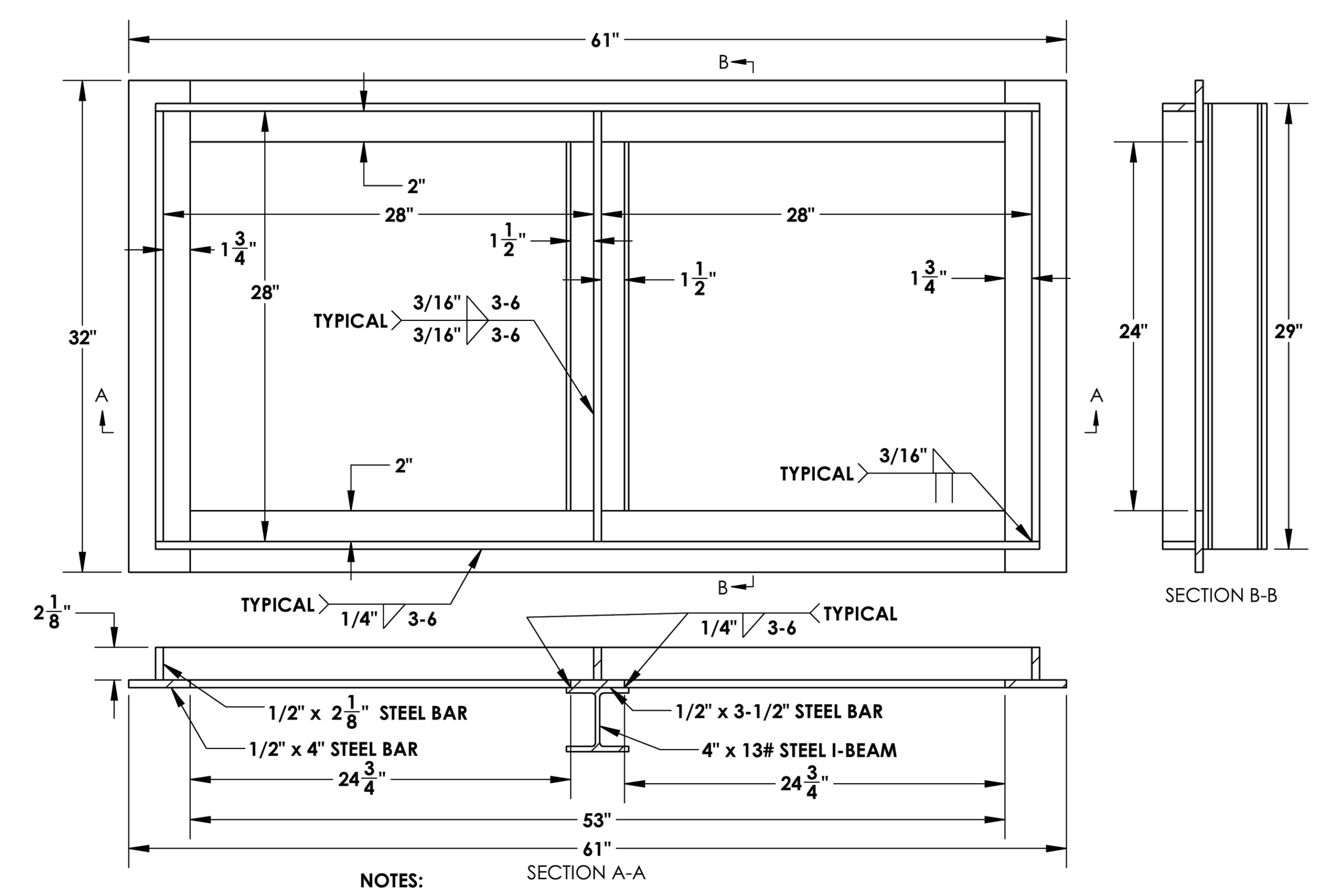
Drawing Revision
05/02/2019 Designer: DJH
07/22/2019 Revised By: DJH

Disclaimer
Weights (lbs/kg), dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

Contact
800 626 4653
ejco.com

4 — CONTECH FILTER
SCALE:NTS

Galvanized Steel Vault Frame



NOTES:

1.) FRAME MATERIAL SHALL BE HOT ROLLED STEEL CONFORMING TO ASTM A36.

2.) I-BEAM MATERIAL SHALL BE HOT ROLLED STEEL CONFORMING TO ASTM A572, GR. 50.

3.) FRAME, INCLUDING ENDS OF I-BEAM, MUST BE SUPPORTED BY CONCRETE SUFFICIENT FOR H25 LOADING.

4.) FRAME SUPPLIED WITH 1/4" x 4" NEOPRENE GASKET FOR USE DURING INSTALLATION. SUPPLIED IN PRE-CUT LENGTHS TO MATCH FRAME DIMENSIONS.

Product Number
00820990

Design Features
-Materials
Steel-See Notes
-Design Load
H25 - Heavy Duty - See Notes
-Open Area

-Coating
Galvanized
-√ Designates Machined Surface

Reference Material
-19-003516
-201910-12906
-Estimated Weight: 210 lbs
-Country of Origin: USA
-Revision Level: E

Drawing Revision
10/16/2019 Designer: ARO
06/24/2020 Revised By: TYM
06/26/2020 Revised By: ARO
06/30/2020 Revised By: ARO
07/09/2020 Revised By: ARO

Disclaimer
Weights (lbs/kg), dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

Quality is very important for EJ, and it includes compliance to measurements and features in this drawing. We are constantly looking at innovation with optimized designs and materials. Please check our website ejco.com for more information. Technical information contained in this drawing represents intellectual property of EJ. If you are using it in other documents please contact EJ, us.sales@ejco.com.

Contact
800 626 4653
ejco.com

5 — CONTECH FILTER
SCALE:NTS

CALL BEFORE YOU DIG
1-800-424-5555 OR 811

McInnis ENGINEERING
mcinnisengineering.com
253.414.1992
202 East 34th Street
Tacoma, Washington 98404

2401 INTER
NOTES AND DETAILS

2401 INTER AVE SE
PUYALLUP, WA 98372

JEFFREY W. McINNIS, STATE OF WASHINGTON, 37199, REGISTERED PROFESSIONAL ENGINEER
8/22/2025

NUM	DATE	DESCRIPTION
V1	01/24/25	INITIAL RELEASE
V2	06/23/25	SECOND RELEASE

DESIGNED W. MCINNIS	SCALE N.T.S.
DRAWN W. MCINNIS	CHECKED J. MCINNIS
DATE 9/17/2025	APPROVED J. MCINNIS

JOB NO. 24-166

SHEET C13 OF C14

C13

2401 INTER

NOTES AND DETAILS

A PORTION OF THE SW 1/4 OF SECTION 26, TOWNSHIP 20 N, RANGE 4 E, W.M. PIERCE COUNTY, WA

APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE _____

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

1. **SITE INFORMATION:**
   - TOTAL SITE AREA: 80,436 S.F
   - TOTAL SITE PAVED AREA: 57,237 S.F

2. **PARKING STALL COUNT FOR RED DOT AND EJ POULTRY**
   - TOTAL PARKING AREA (TO BACK OF CURB): 29,706 S.F
   - TOTAL PAVED AREA: 25,086 S.F
   - REQUIRED PARKING STALL COUNT:
     + CALCULATE: (29,706/1,000) + 4 + (29,706/10,000) = 36.67
     + MINIMUM REQUIRED PARKING STALL COUNT: 37
   - PROPOSED PARKING STALL COUNT: 42

3. **COMPACT PARKING STALL COUNT:**
   - 30% TOTAL MINIMUM REQUIRED PARKING STALL COUNT:
     + CALCULATE: 30% X 37 = 11.1
     + MINIMUM REQUIRED PARKING STALL COUNT: 12
     + PROPOSED PARKING STALL COUNT: 20

4. **TRUCK PARKING:**
   - TOTAL AREA: 33,437 S.F
   - TOTAL PAVED AREA: 32,151 S.F

5. **LANDSCAPING REQUIREMENTS FOR RED DOT AND EJ POULTRY**
   - INTERNAL LANDSCAPING:
     + CALCULATE: 10% X (134,401 + 57,562) = 19,196 S.F
     + MINIMUM REQUIRED: 19,196 S.F
     + PROPOSED: 20,364 S.F
     + PERCENT LANDSCAPE: (20,364 S.F/191,963 S.F) = 10.61%

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mcinnisengineering.com
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202 East 34th Street
Tacoma, Washington 98404

2401 INTER
NOTES AND DETAILS

2401 INTER AVE SE
PUYALLUP, WA 98372

JEFFREY W. MCINNIS
STATE OF WASHINGTON
37799
REGISTERED
PROFESSIONAL ENGINEER
9/4/2025

NUM	DATE	DESCRIPTION
V1	01/24/25	INITIAL RELEASE
V2	06/23/25	SECOND RELEASE

DESIGNED W. MCINNIS	SCALE N.T.S.
DRAWN W. MCINNIS	CHECKED J. MCINNIS
DATE 9/17/2025	APPROVED J. MCINNIS

JOB NO. 24-166

SHEET C14 OF C14

C14