

VICINITY MAP
SCALE: NTS

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 CONSTRUCTION. 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:

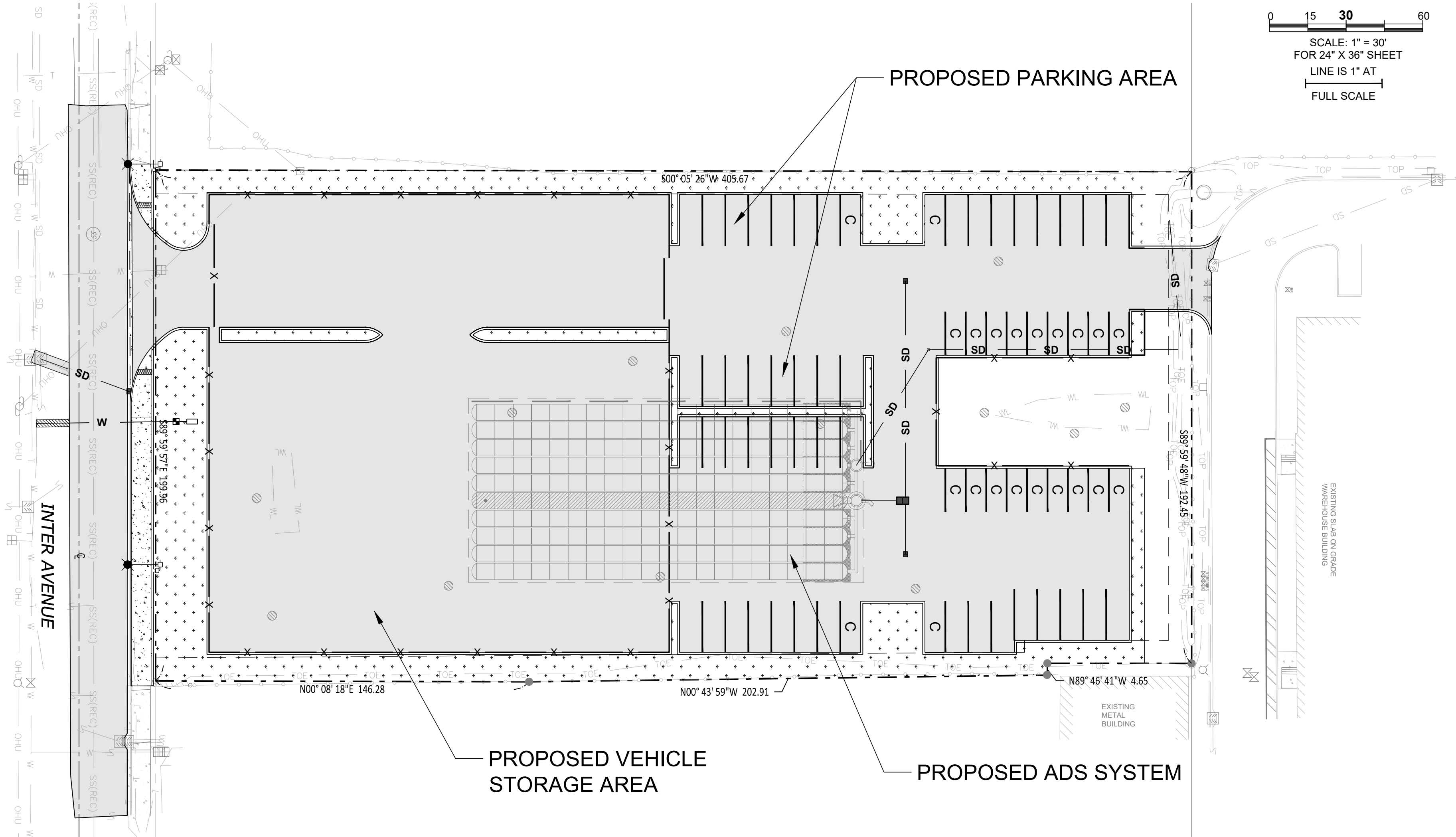
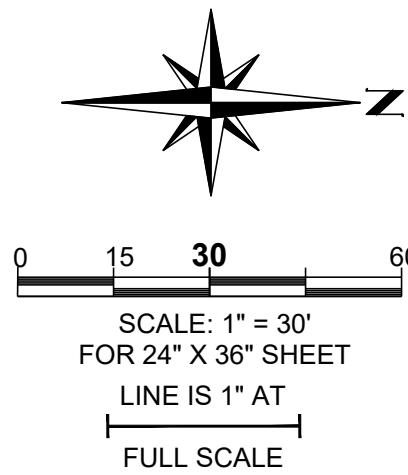
THIS SURVEY WAS PERFORMED VIA CONVENTIONAL AND RADIAL TRAVERSE METHODS WITH A TOPCON PS103 3" SECOND TOTAL STATION AND A GEOMAX ZOOM 95 3" SECOND TOTAL STATION TOGETHER WITH RTK NETWORK/ROVER TECHNIQUES UTILIZING TOPCON GR-3 RECEIVER AND CARLSON GRX7 RECEIVER AND MEET OR EXCEED ACCURACY REQUIREMENTS CONTAINED IN WAC 332.130.090

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

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
8-13	C8-C13	NOTES AND DETAILS



PROPOSED VEHICLE
STORAGE AREA

PROPOSED ADS SYSTEM

LEGEND

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

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 80F 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 80F 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 POINT 5 FEET FROM THE WESTERLY FACE OF THE EXISTING 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 763 SQUARE FEET MORE OR LESS.
CONTAINING 80436 SQUARE FEET (1.85 ACRES) MORE OR LESS.

EXISTING LEGEND

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

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@EJPULTRY.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:

- NO DEED CORNERS WERE SET THIS SURVEY
- THIS SURVEY DOES NOT PURPORT TO SHOW ALL OR ANY EASEMENTS OF RECORD. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF TITLE REPORT.
- THE PURPOSE OF THIS SURVEY IS TO SHOW CURRENT CONDITIONS OF SITE FOR DESIGN PURPOSES
- 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 DEPICED 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.
- CONTOUR INTERVAL SHOWN HEREON IS AT A 1' INTERVAL.
- 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.
- THIS SURVEY DOES NOT RESOLVE ANY POSSIBLE UNWRITTEN RIGHTS DUE TO ADVERSE POSSESSION OR OTHER OCCUPATIONAL INDICATORS SUCH AS FENCES.
- 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.
- 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.
- 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.

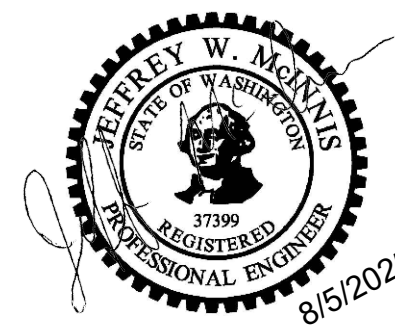
CALL BEFORE YOU DIG
1-800-424-5555 OR 811

mcinnisengineering.com
253.414.1992

McInnis
ENGINEERING

2401 INTER
COVER SHEET

2401 INTER AVE SE
PUYALLUP, WA 98372



DESCRIPTION	DATE	NUM	SCALE
INITIAL RELEASE	01/24/25	V1	1"=30'
SECOND RELEASE	06/23/25	V2	
DESIGNED			
W. MCINNIS			
DRAWN			
W. MCINNIS			
CHECKED			
J. MCINNIS			
DATE			
8/5/2025			
APPROVED			
J. MCINNIS			
JOB NO.			
24-166			
SHEET			
C1 OF C13			
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.
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.

mcinnisengineering.com
253.414.1992

202 East 34th Street
Tacoma, Washington 98404

McInnis
ENGINEERING

2401 INTER
SITE PLAN

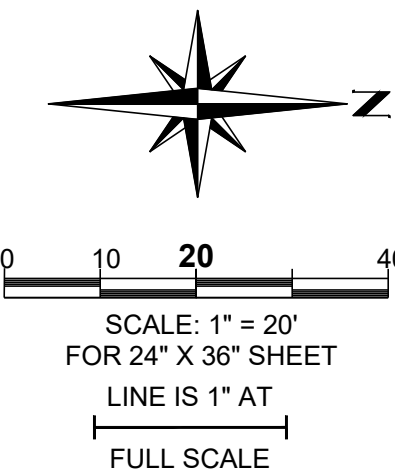
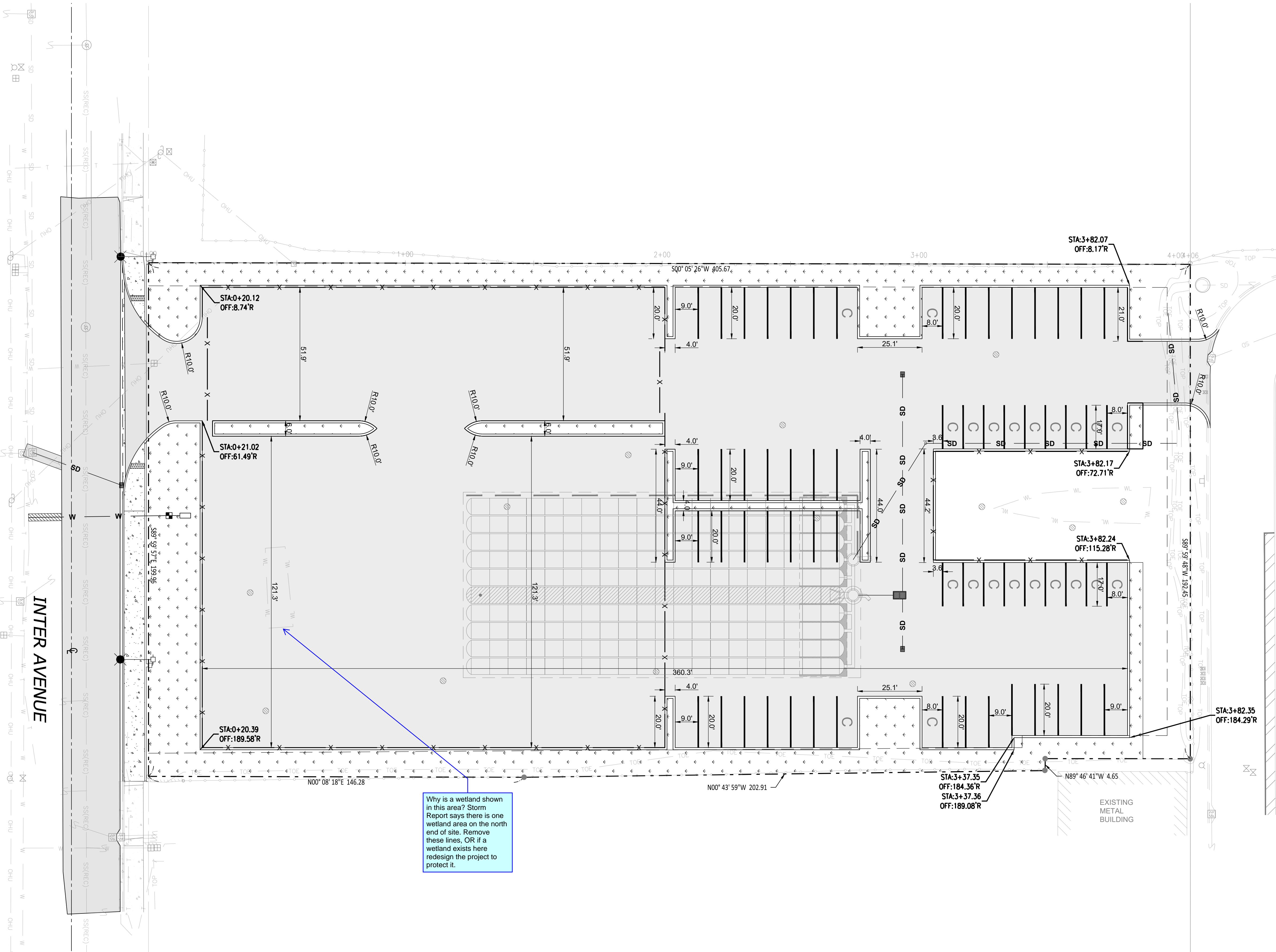
2401 INTER AVE SE
PUYALLUP, WA 98372



DESCRIPTION		DATE		NUM		DESIGNED		SCALE	
INITIAL RELEASE		01/24/25		V1		W. MCINNIS		1"=20'	
SECOND RELEASE		06/23/25		V2		J. MCINNIS		CHECKED	
						J. MCINNIS		APPROVED	
						J. MCINNIS		JOB NO.	
								24-166	
								SHEET	
								C2 OF C13	
								C2	

LEGEND

	PROPERTY LINE
	SETBACK
	PROPOSED CONCRETE
	PROPOSED ASPHALT
	PROPOSED LANDSCAPE
	PROPOSED ADS SYSTEM
	TRENCH BACKFILL
	PAVING PATCH
	STORM DRAIN
	WATER LINE
	PROPOSED FENCE
	CATCH BASIN
	CLEAN OUT
	WATER METER
	DOUBLE CHECK VALVE ASSEMBLY
	PROPOSED CONTOUR LINES
	WETLAND MARGIN



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

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:

- 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.
- 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.
- 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.
- 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.
- TESC LEAD RESPONSIBLE FOR NOTIFYING ENGINEER IF ADDITIONAL MEASURES ARE WARRANTED.

PERMANENT STABILIZATION NOTES:

- ALL EXPOSED SOILS AND SLOPES SHALL BE SEEDED OR OTHERWISE STABILIZED IMMEDIATELY AFTER CONSTRUCTION AND GRADING ACTIVITIES HAVE BEEN COMPLETED.
- SILT FENCE, IF DEEMED APPROPRIATE, SHALL REMAIN FOR A MINIMUM OF 30 DAYS AFTER THE FINAL STABILIZATION OF THE SLOPES HAS OCCURRED.
- ALL TEMPORARY EROSION CONTROL BMPs SHALL BE REMOVED 30 DAYS AFTER FINAL STABILIZATION HAS OCCURRED AS DIRECTED BY CITY OR COUNTY INSPECTOR.
- 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:
 - 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](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.
 - 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
- LEAVE NATIVE VEGETATION AND SOIL UNDISTURBED, AND PROTECT FROM COMPACTION DURING CONSTRUCTION
- 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
- 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
- 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:
 - 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.
 - SOIL SHOULD BE PLANTED AND MULCHED AFTER INSTALLATION.
 - PLANT DEBRIS OR ITS EQUIVALENT SHOULD BE LEFT ON THE SOIL SURFACE TO REPLENISH ORGANIC MATTER.
 - 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:

- 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).
- MULCH SHALL BE APPLIED IN ALL AREAS WITH EXPOSED SLOPES GREATER THAN 2: 1.
- MULCHING SHALL BE USED IMMEDIATELY AFTER SEEDING OR IN AREAS WHICH CANNOT BE SEEDED BECAUSE OF THE SEASON.
- ALL AREAS NEEDING MULCH SHALL BE COVERED BY NOVEMBER 1.

CONTRACTOR NOTES:

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- SEDIMENT LADEN RUNOFF SHALL NOT BE ALLOWED TO DISCHARGE BEYOND THE LIMITS OF THE IMPROVEMENTS. ADDITIONAL MEASURES SHALL BE INSTALLED AS NEEDED.
- 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.
- TREES WITHIN WORKING LIMITS TO BE SAVED, SHALL BE MARKED AS SUCH ON SITE AND PROTECTION FENCE PLACED AROUND EACH TREE.

SEEDING NOTES:

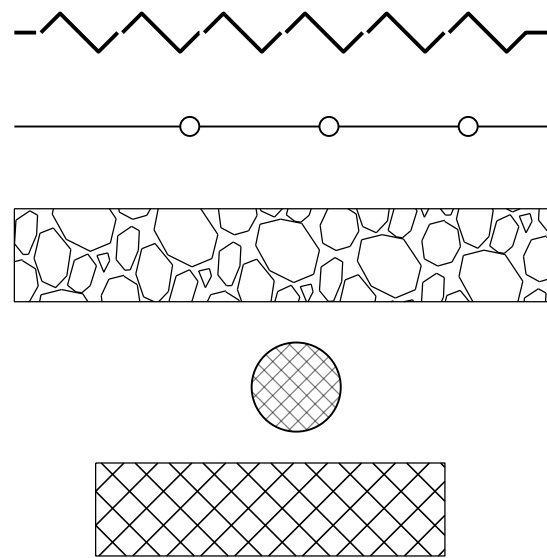
- THE FOLLOWING SEED MIXTURE SHALL BE AS BELOW AND SHALL BE APPLIED AT THE RATE RECOMMENDED BY THE SUPPLIER.

TABLE D.3.2.B TEMPORARY EROSION CONTROL SEED MIX			
	% WEIGHT	% PURITY	% GERMINATION
CHEVINGS 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

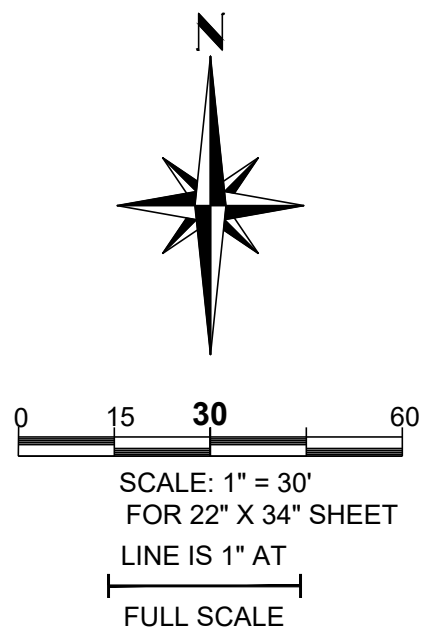
- SEED BEDS PLANTED BETWEEN MAY 1 AND OCTOBER 31 WILL REQUIRE IRRIGATION AND OTHER MAINTENANCE AS NECESSARY TO FOSTER AND PROTECT THE ROOT STRUCTURE.
- FOR SEED BEDS PLANTED BETWEEN OCTOBER 31 AND APRIL 30, ARMORING OF THE SEED BED WILL BE NECESSARY. (E.G., GEOTEXTILES, JUTE MAT, CLEAR PLASTIC COVERING).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

STORMTECH
DETENTION LOCATION
@56'

TESC LEGEND:



- CL CLEARING/ GRADING/ DISTURBED LIMITS
- FF FILTER FABRIC FENCE SEE DETAIL
- CE CONSTRUCTION ENTRANCE
- IP INLET PROTECTION
- DR DEMO AND REMOVE



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.

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

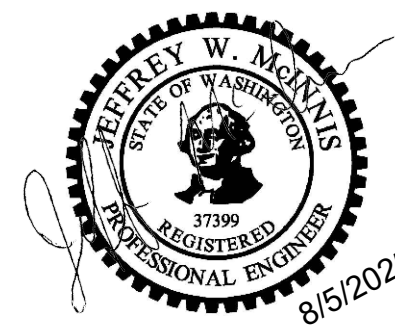
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253.414.1992

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ENGINEERING

202 East 34th Street
Tacoma, Washington 98404

2401 INTER
TESC PLAN

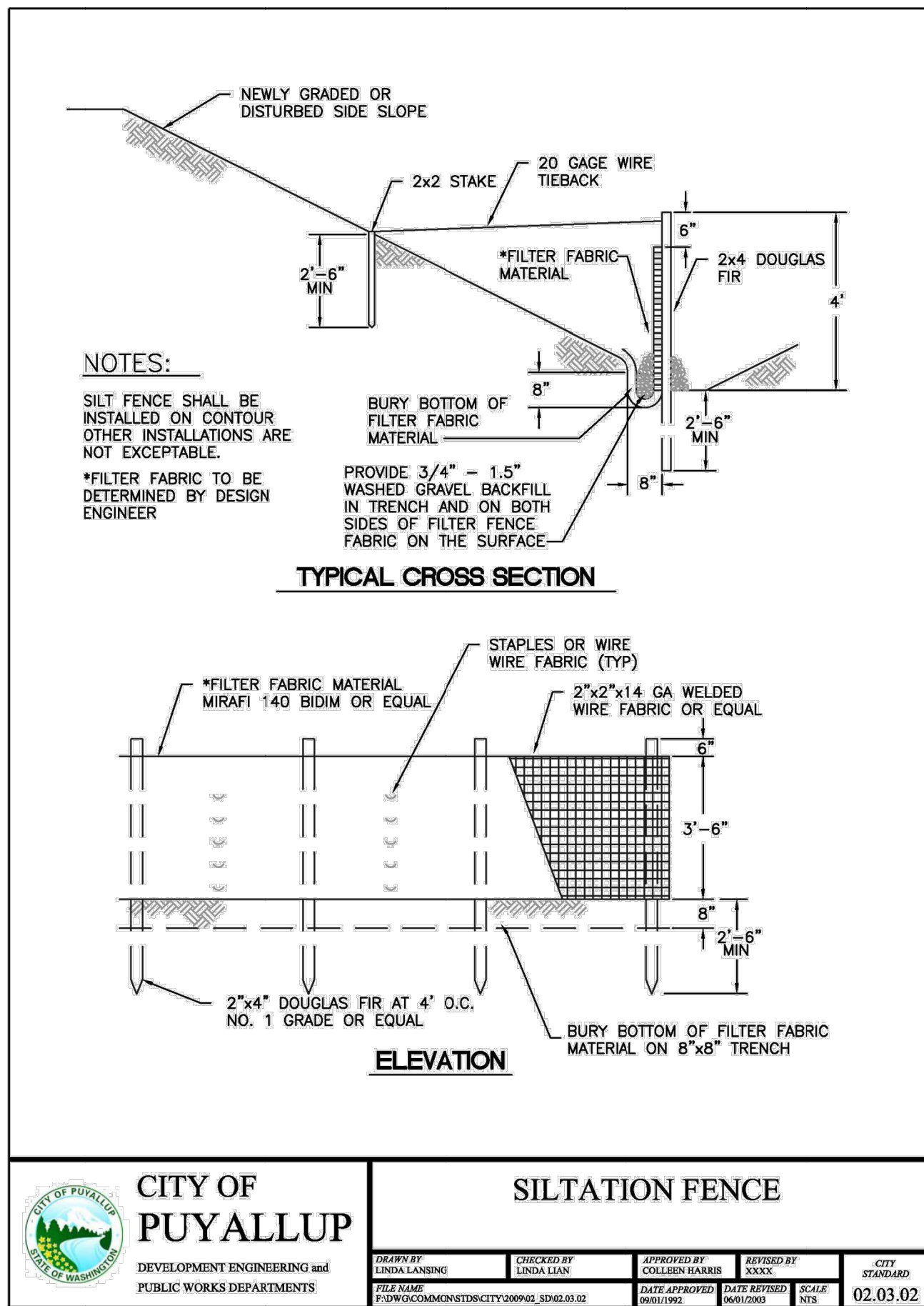
2401 INTER AVE SE
PUYALLUP, WA 98372



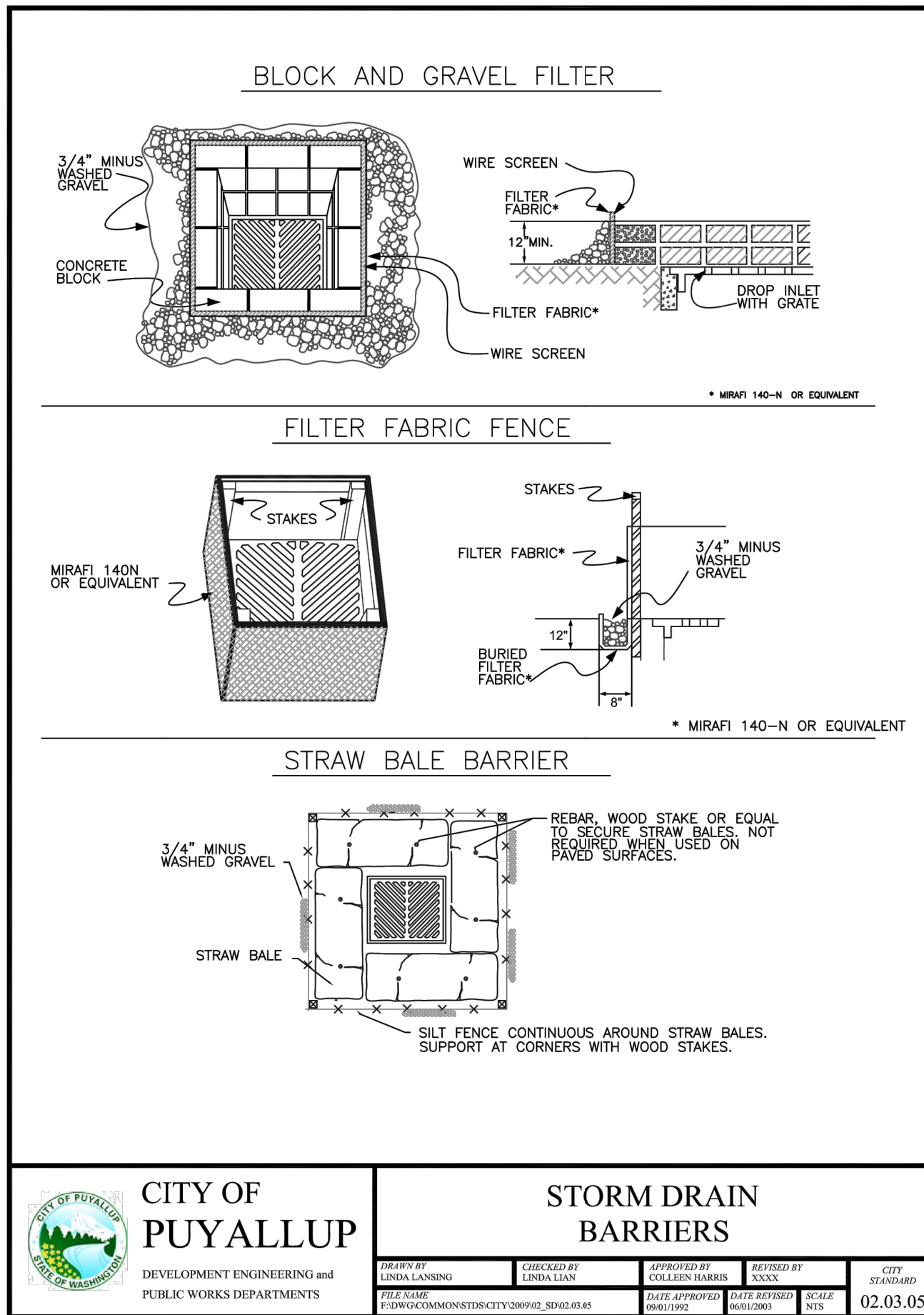
DESCRIPTION		DATE		NUM		SCALE	
INITIAL RELEASE		01/24/25		V1		1"=30'	
SECOND RELEASE		06/23/25		V2			
DESIGNED W. MCINNIS		DRAWN W. MCINNIS		DATE 8/5/2025		CHECKED J. MCINNIS	
JOB NO.		24-166		SHEET C3 OF C13		C3	

2401 INTER TESC NOTES AND DETAILS

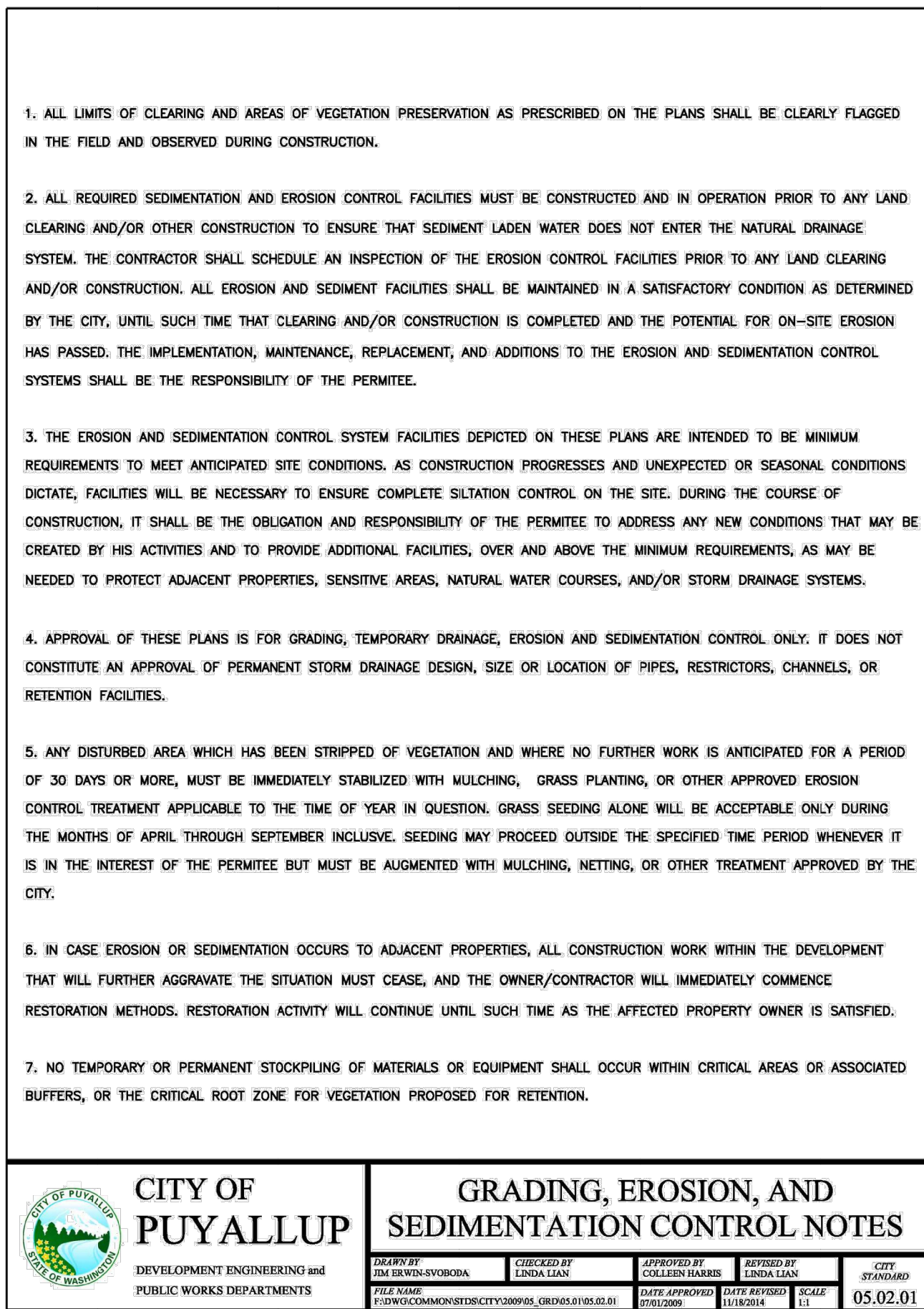
A PORTION OF THE SW 1/4 OF SECTION 26, TOWNSHIP 20 N, RANGE 4 E, W.M. PIERCE COUNTY, WA



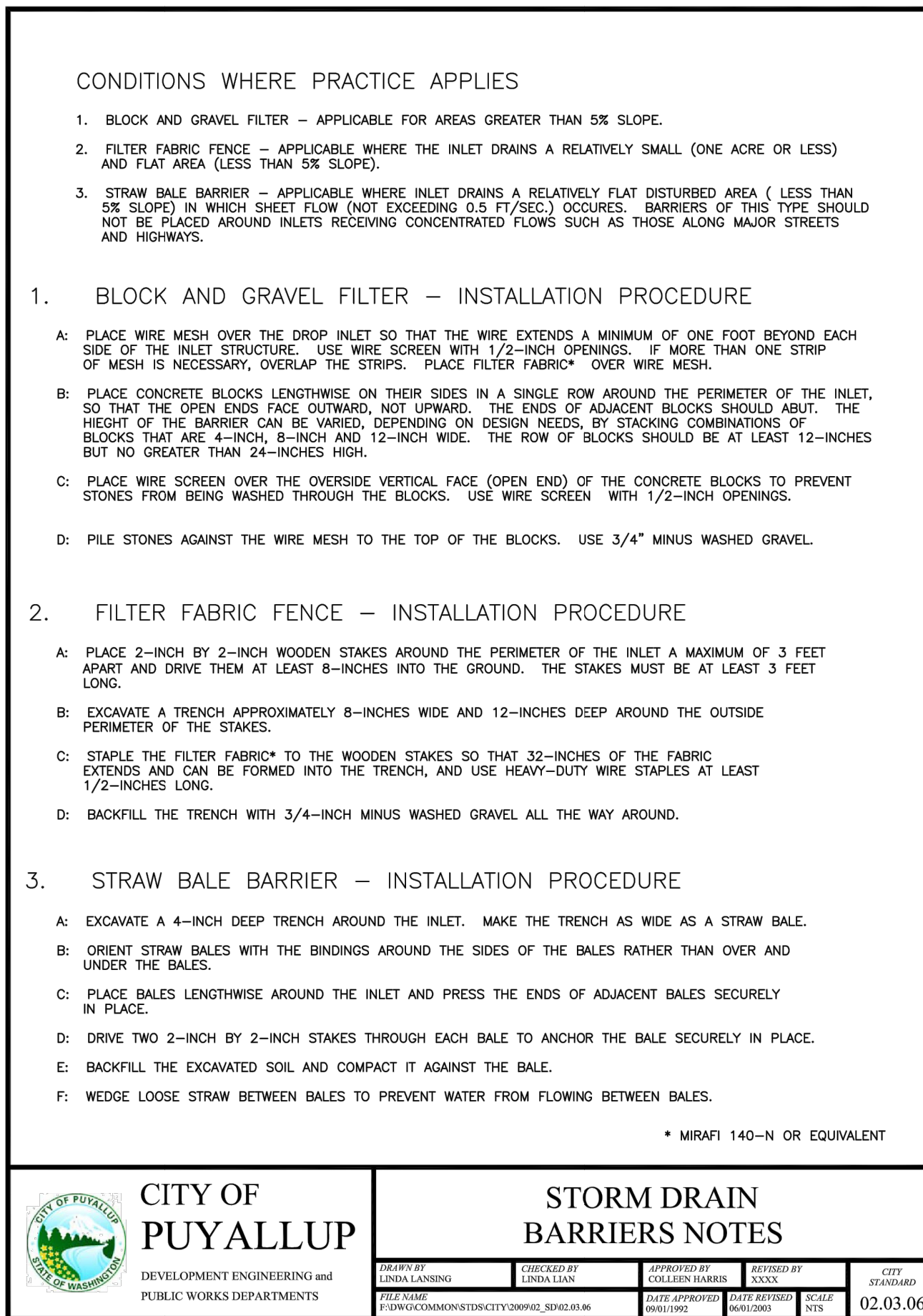
1 SILTATION FENCE SCALE: 1/8"



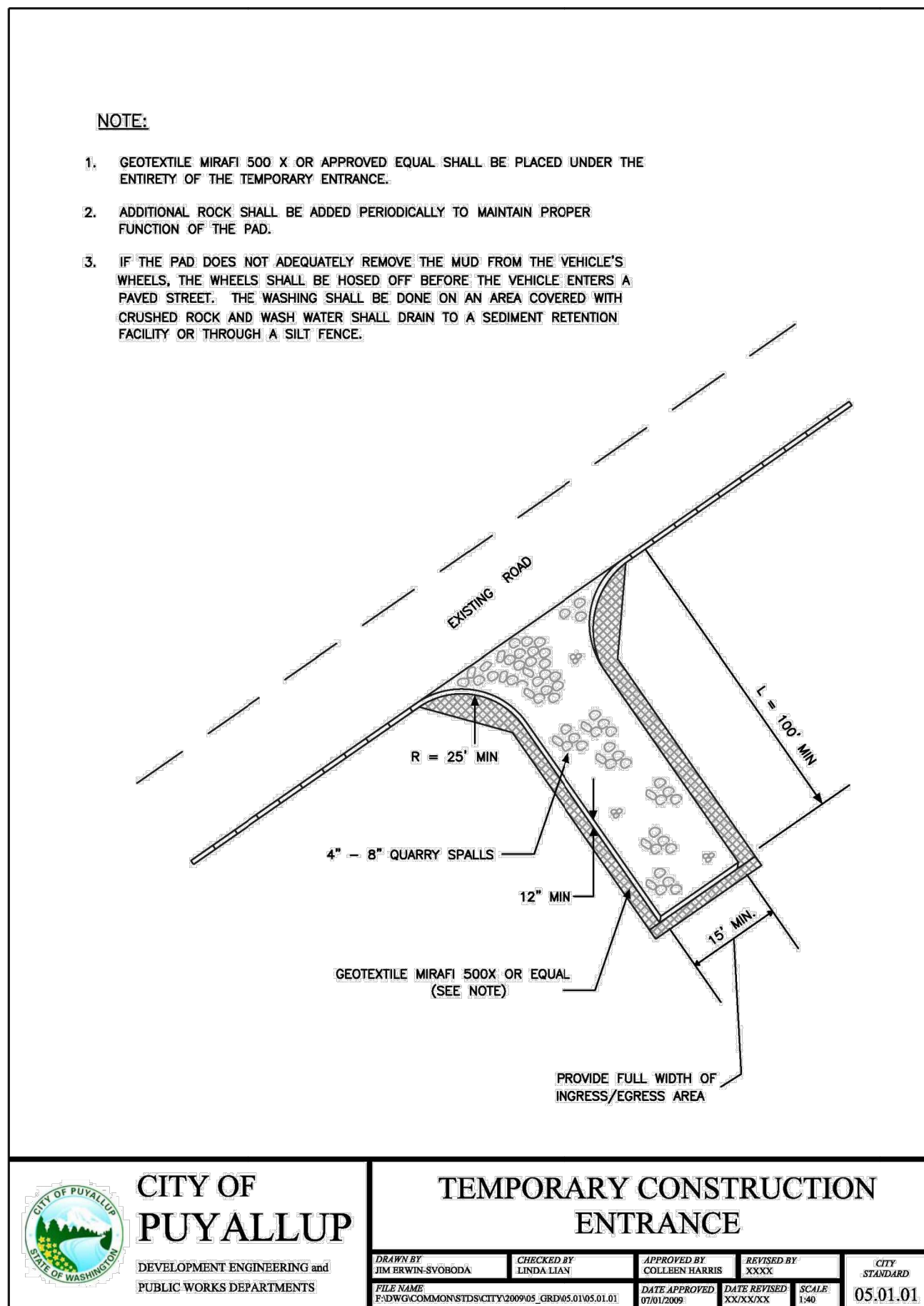
4 STORM DRAINAGE BARRIERS SCALE: 1/8"



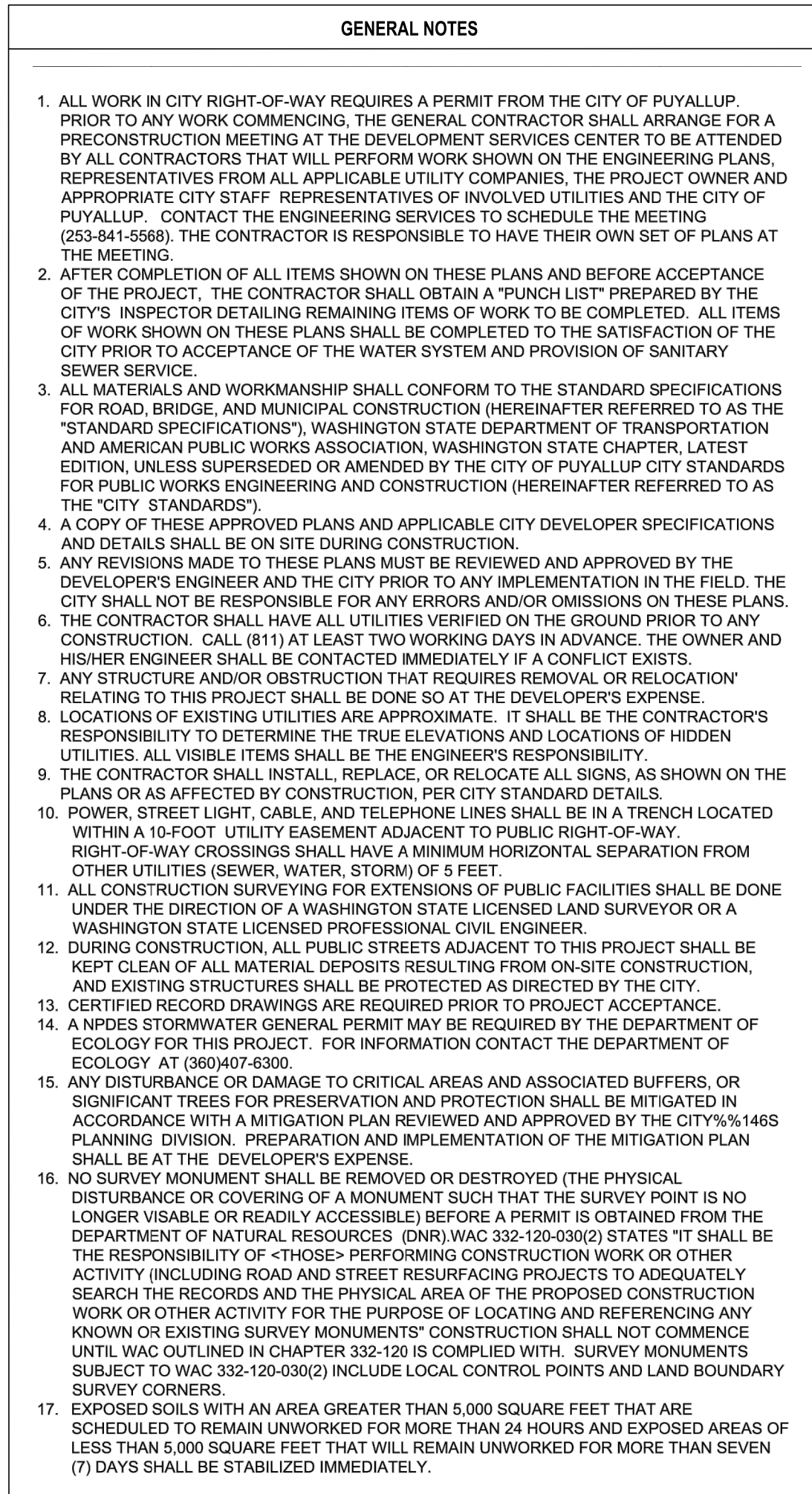
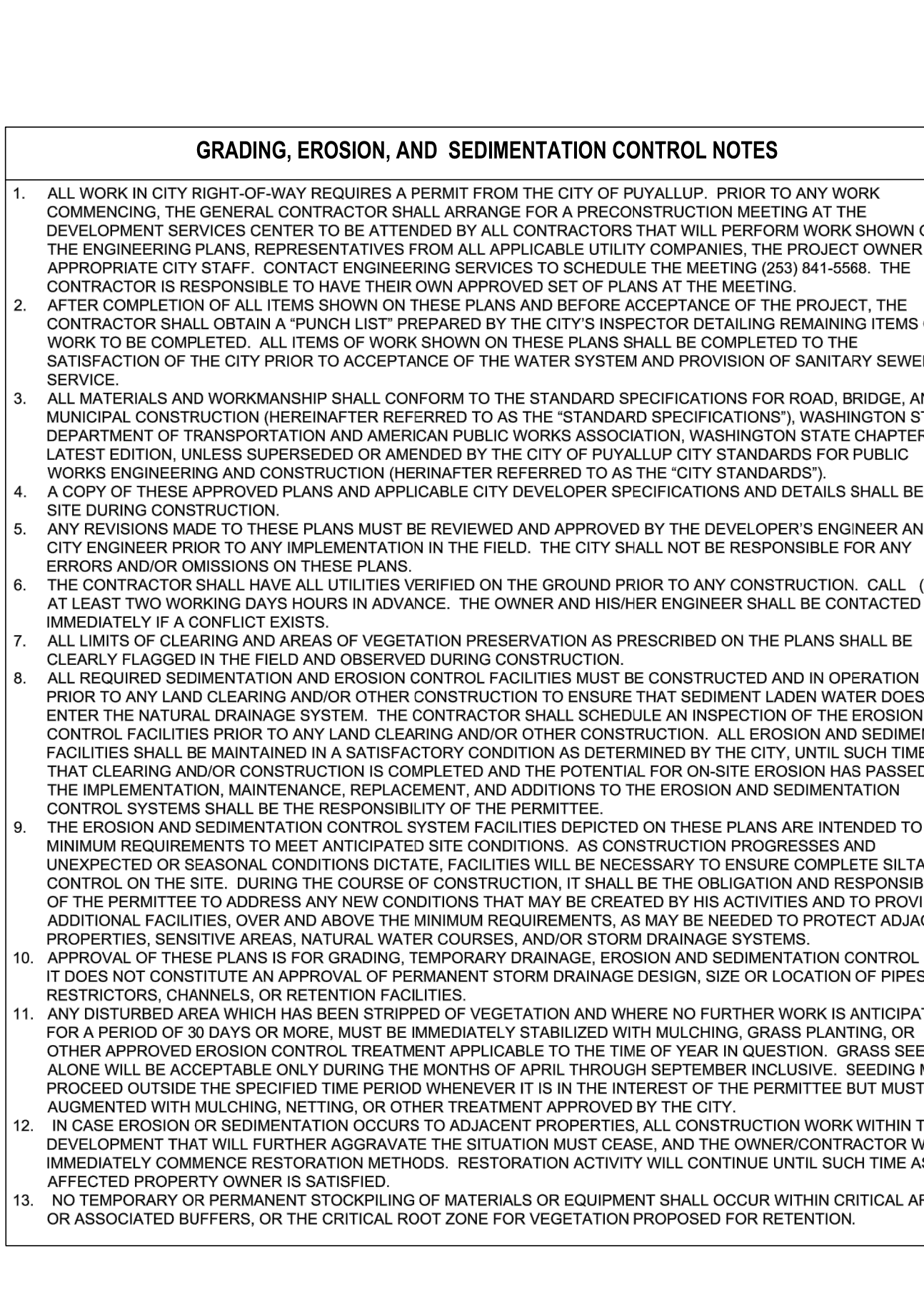
2 GRADING, EROSION, AND SEDIMENTATION CONTROL NOTES SCALE: 1/8"



5 STORM DRAINAGE BARRIERS NOTES SCALE: 1/8"



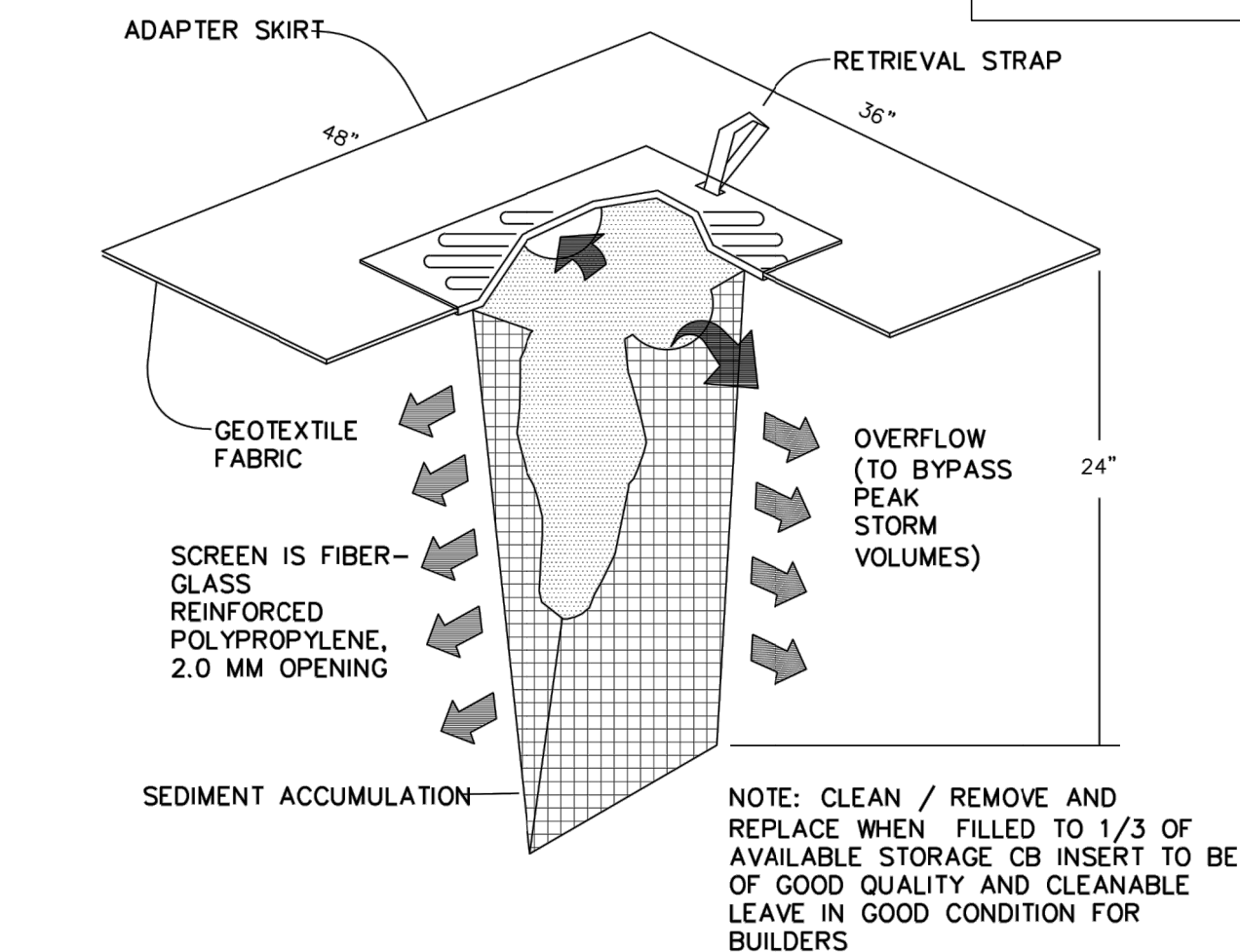
3 TEMPORARY CONSTRUCTION ENTRANCE SCALE: 1/8"



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.



6 CATCH BASIN INSERT SCALE: 1/8"

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.

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2401 INTER
TESC NOTES AND DETAILS



DESCRIPTION	DATE	NUM	SCALE
INITIAL RELEASE	01/24/25	V1	N.T.S.
SECOND RELEASE	06/23/25	V2	CHECKED J. MCINNIS
			APPROVED J. MCINNIS
			DATE 8/5/2025
			JOB NO. 24-166
			SHEET C4 OF C13
			C4

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

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

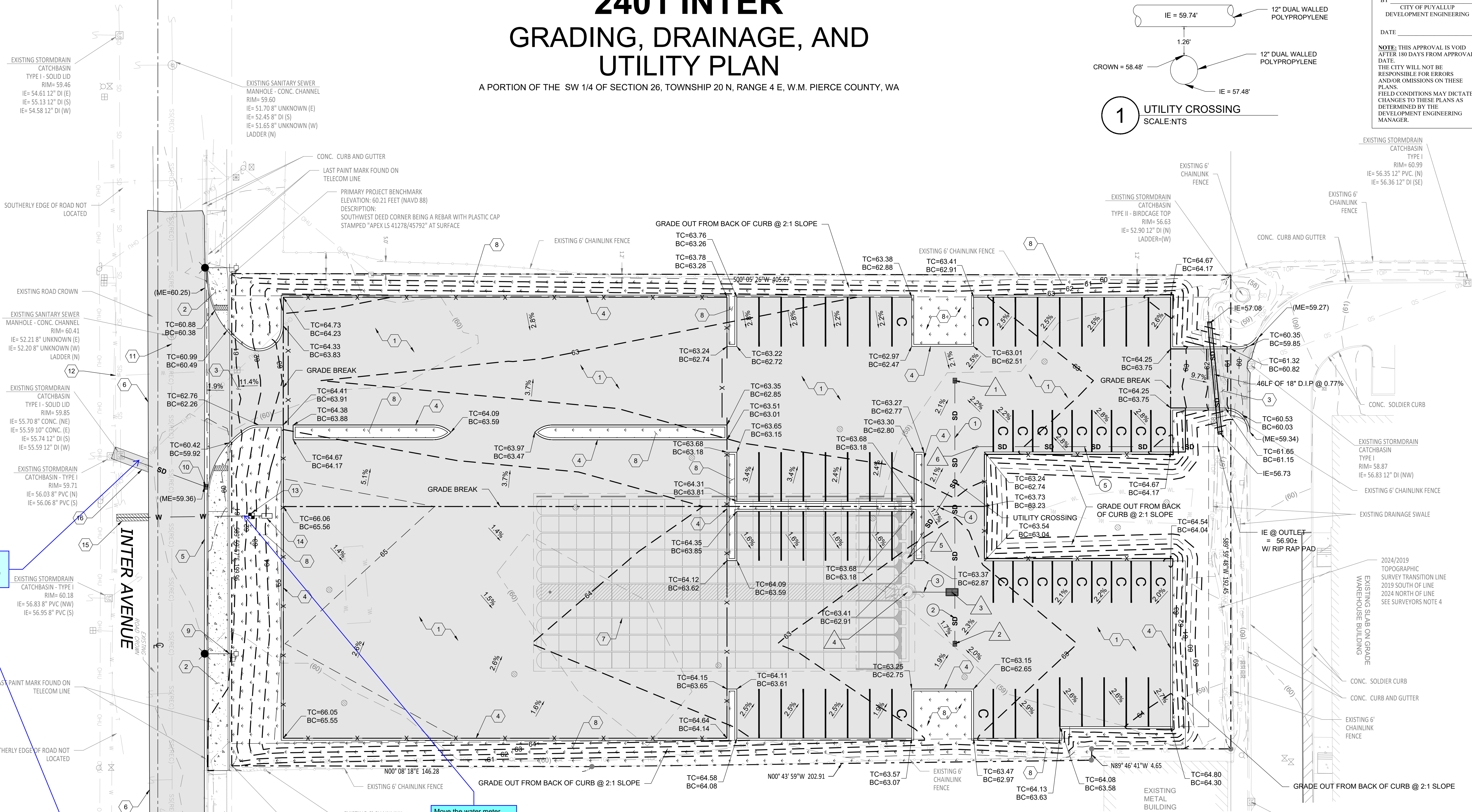
APPROVED

BY
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE

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DATE.
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DETERMINED BY THE
DEVELOPMENT ENGINEERING
MANAGER.

1 UTILITY CROSSING
SCALENTS



Include lineal feet and
pipe size for this storm
pipe in Storm Drain Pipe
Sections table.

Move the water meter
flush up against the back
of the sidewalk

STORM DRAIN PIPE SECTIONS

- | # | DESCRIPTION |
|---|--|
| 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 |

STORM STRUCTURE DETAILS:

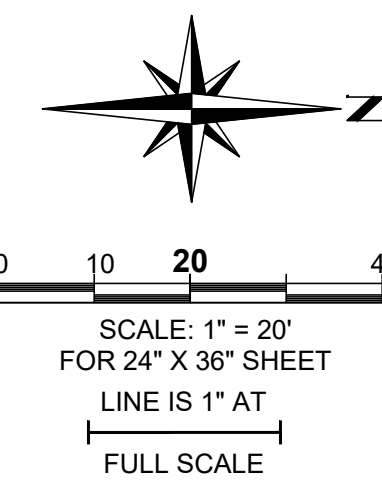
- | # | DESCRIPTION |
|---|--|
| 1 | TYPE 1 CATCH BASIN
RIM = 62.11
IE 12" E = 59.98 |
| 2 | TYPE 1 CATCH BASIN
RIM = 62.28
IE 12" W = 58.32 |
| 3 | CONTECH WATER QUALITY
SYSTEM
RIM = 62.51
IE 12" W = 59.55
IE 12" E = 58.22
IE 12" S = 57.72 |
| 4 | MANHOLE
RIM = 62.77
IE 12" NE = 57.66 |
| 5 | FLOW CONTROL
MANHOLE
RIM = 62.96
IE 12" NE = 57.66 |
| 6 | CLEAN OUT
RIM = 62.68
IE 12" E = 57.39 |

KEYNOTES

- | | |
|----|--|
| 1 | PROPOSED ASPHALT PAVEMENT |
| 2 | PROPOSED CONCRETE PAVEMENT PER
FRONTAGE IMPROVEMENT PLAN SEE SHEET C6 |
| 3 | PROPOSED MINOR DRIVEWAY APPROACH |
| 4 | PROPOSED EXTRUDED CURB |
| 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 |
| 8 | PROPOSED LANDSCAPE |
| 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 CORPORATION STOP ON THE WATER
MAIN AND INSTALL A BRASE PLUG |
| 13 | PROPOSED 1" WATER
SERVICE CONNECTION |
| 14 | PROPOSED 2" AND SMALLER DOUBLE
CHECK VALVE ASSEMBLY INSTALLATION |
| 15 | PROPOSED TRENCH BACKFILL |
| 16 | PROPOSED PAVING PATCH |

LEGEND

- | | |
|-----|-----------------------------|
| --- | PROPERTY LINE |
| --- | SETBACK |
| --- | PROPOSED CONCRETE |
| --- | 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 |
| --- | PROPOSED CONTOUR LINES |



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

2401 INTER GRADING, DRAINAGE, AND UTILITY PLAN

2401 INTER AVE SE
PUYALLUP, WA 98372



DESCRIPTION	INITIAL RELEASE	SECOND RELEASE	DATE	NUM	DESIGNED	SCALE
			01/24/25	V1	W. MCINNIS	1"=20'
			06/23/25	V2		
					DRAWN	CHECKED
					W. MCINNIS	J. MCINNIS
					DATE	APPROVED
					8/5/2025	J. MCINNIS
					JOB NO.	
					24-166	
					SHEET	
					C5 OF C13	
					C5	

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Tacoma, Washington 98404

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

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE _____

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.
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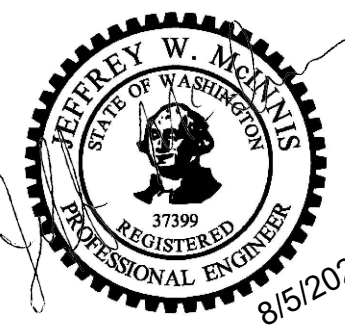
mcinnisengineering.com
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202 East 34th Street
Tacoma, Washington 98404

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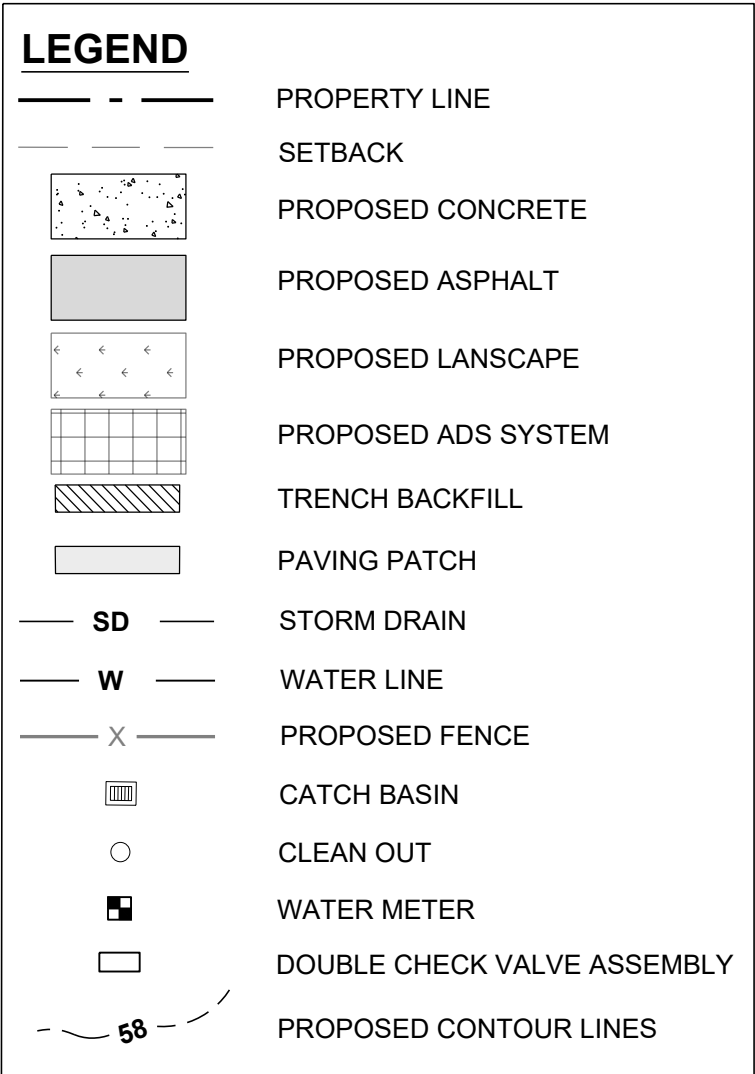
2401 INTER FRONTAGE IMPROVEMENT PLAN

2401 INTER AVE SE
PUYALLUP, WA 98372



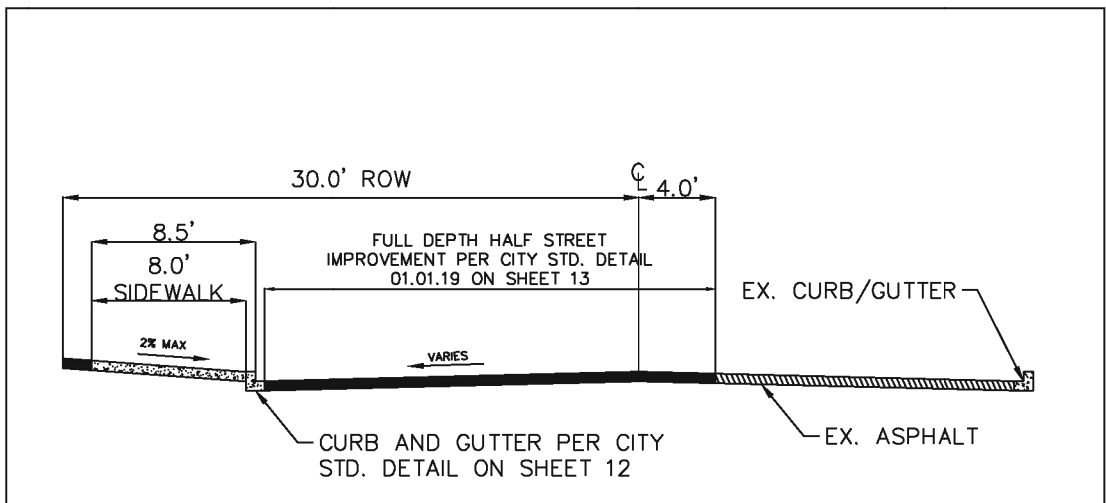
8/5/2025

DESIGNED W. MCINNIS		NUM V1	DATE 01/24/25	DESCRIPTION INITIAL RELEASE SECOND RELEASE					
DRAWN W. MCINNIS		V2	06/23/25						
DATE 8/5/2025		APPROVED J. MCINNIS		SCALE 1"=20'					
JOB NO.									
24-166									
SHEET C6 OF C13									
C6									



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

C6

Plotted: 8/5/25

Plotted By: ---

File: P:\MCINNIS ENGINEERING\PROJECTS\ PROJECT 2025\2401 Inter\ DRAWINGS\SDEV Sheets\24-166 - SDEV - 2401 INTER - C6 - FRONTAGE PLAN.dwg

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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AFTER 180 DAYS FROM APPROVAL
DATE.
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MANAGER.

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Tacoma, Washington 98404

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2401 INTER
STREET LIGHTING PLAN

2401 INTER AVE SE
PUYALLUP, WA 98372

Jeff McInnis
8/5/2025

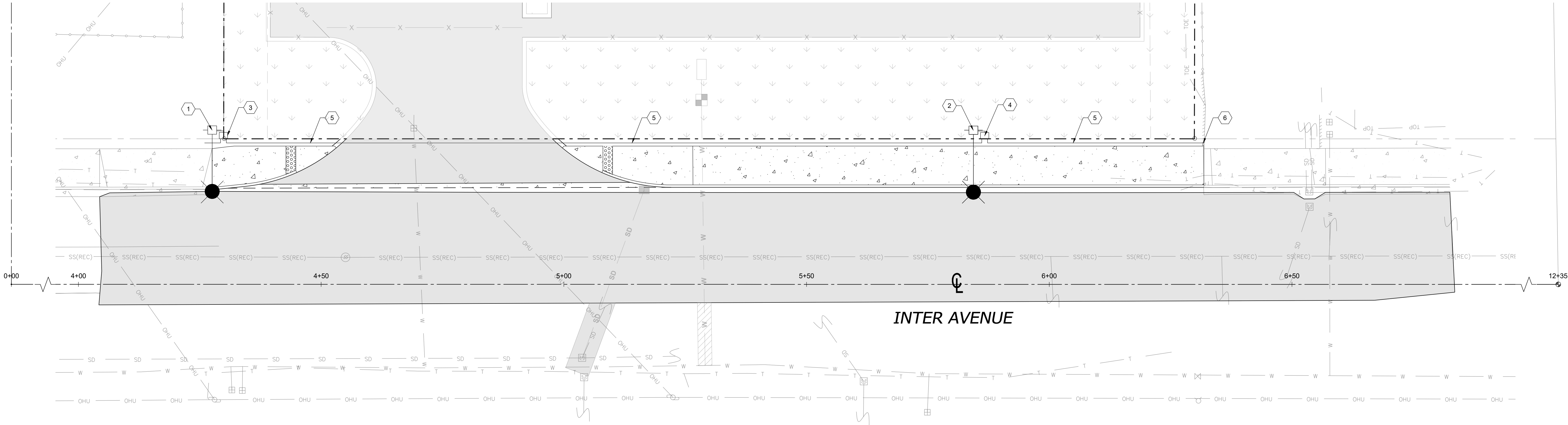
DESCRIPTION	INITIAL RELEASE	SECOND RELEASE
DATE	01/24/25	06/23/25
NUM	V1	V2

DESIGNED W. MCINNIS	SCALE 1"=10'
DRAWN W. MCINNIS	CHECKED J. MCINNIS
DATE 8/5/2025	APPROVED J. MCINNIS

JOB NO.
24-166

SHEET
C7 OF C13

C7



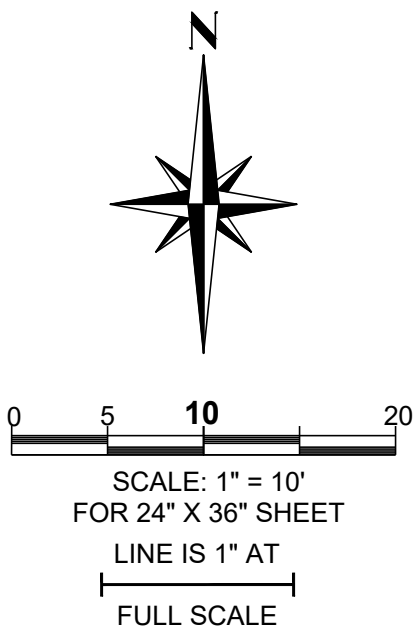
KEYNOTES

- STREET LIGHTING POLE, STA. 4+27.56 , 31.81' LT PER CITY STD DETAIL 01.05.04 SEE DETAIL
- STREET LIGHTING POLE, STA. 5+84.37 , 31.78' LT PER CITY STD DETAIL 01.05.04 SEE DETAIL
- 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
- PROVIDE TYPE 1 JUNCTION BOX 5+86.69 , 30.83' LT WITH SLIP RESISTANT COATING AND 6" X 6" CONCRETE COLLAR PER CITY STANDARD DETAIL 01.06.01 SEE DETAIL
- 2" PVC SCHEDULE 80 - (2) #8 CU AND (1) #10 CU GRD
2" PVC SCHEDULE 80 - SPARE W/ PULLSTRING
- CONNECT TO EXISTING TESCO SERVICE CABINET LOCATED APPROX. 500' EAST OF SITE AT 2526 INTER AVENUE
- 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 LANDSCAPE
- PROPOSED ADS SYSTEM
- TRENCH BACKFILL
- PAVING PATCH
- STORM DRAIN
- WATER LINE
- PROPOSED FENCE
- CATCH BASIN
- CLEAN OUT
- WATER METER
- DOUBLE CHECK VALVE ASSEMBLY

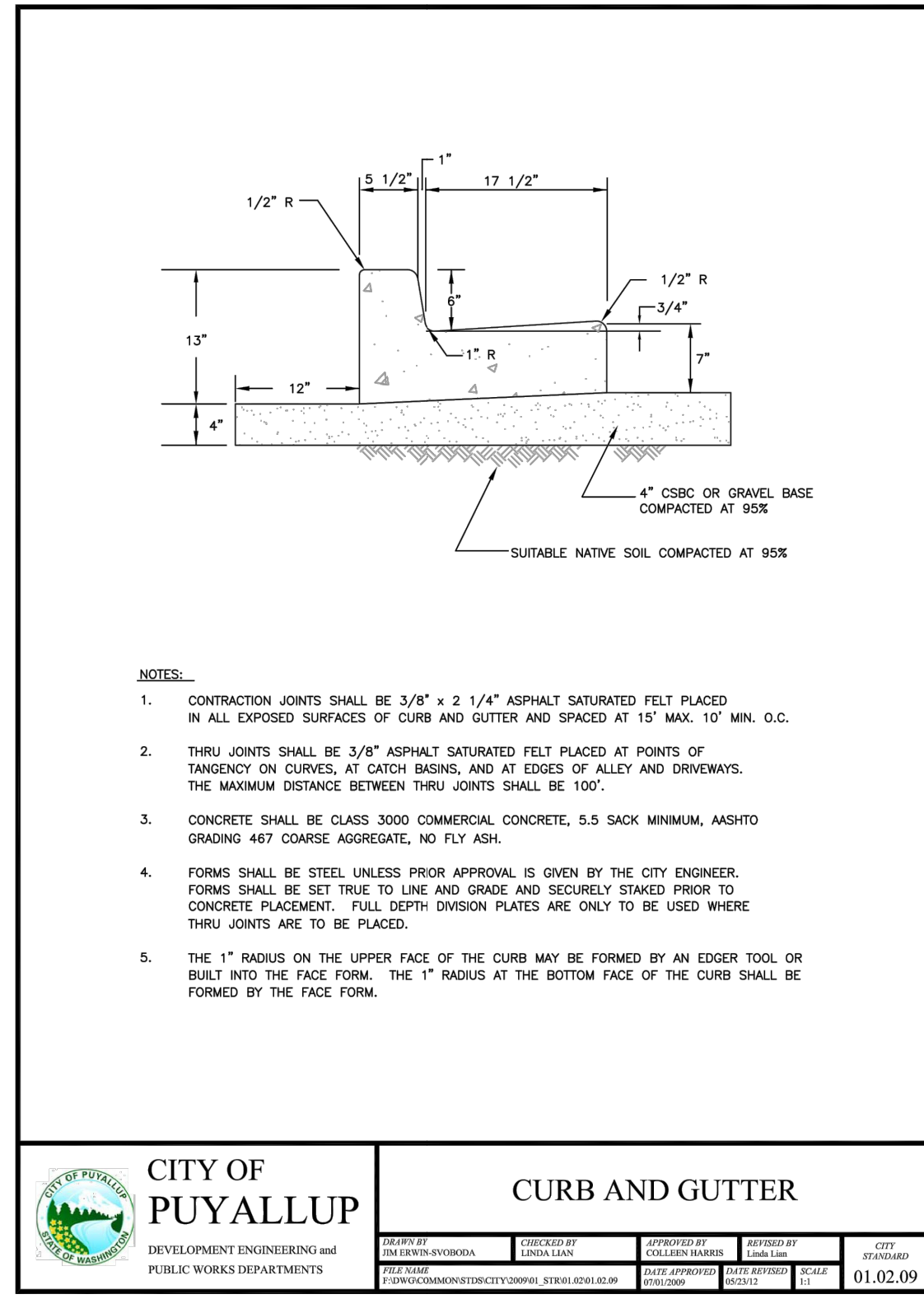
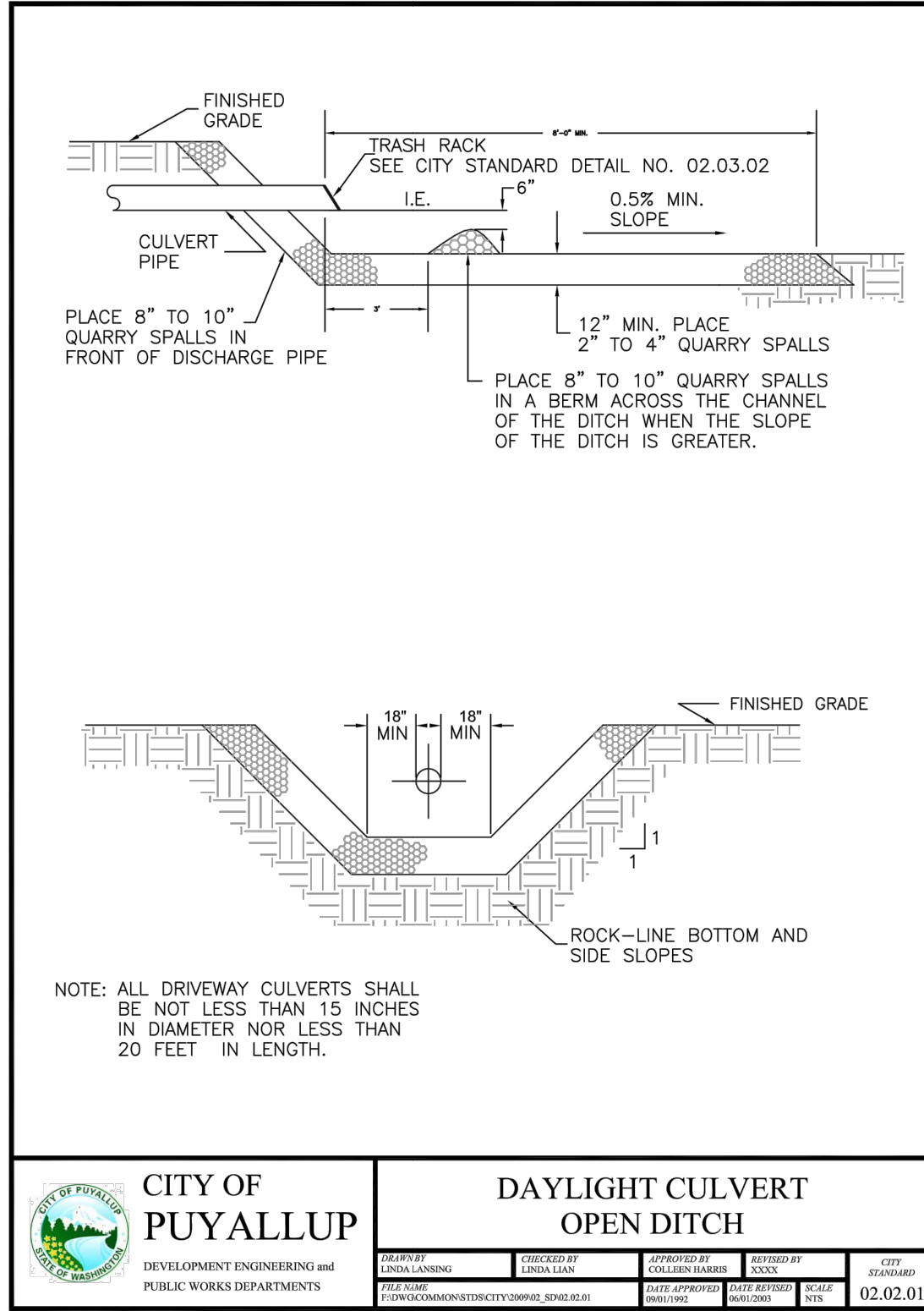
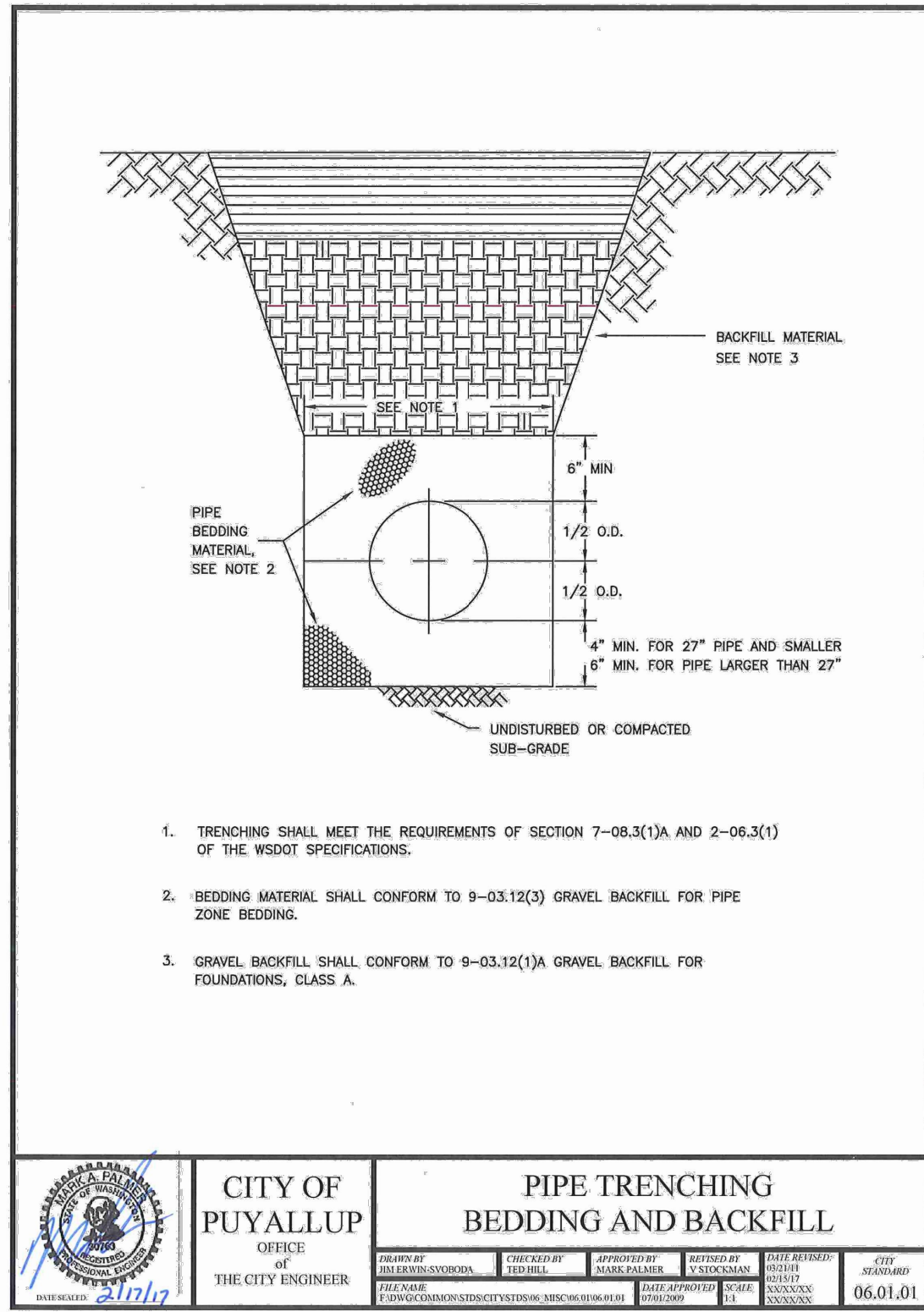
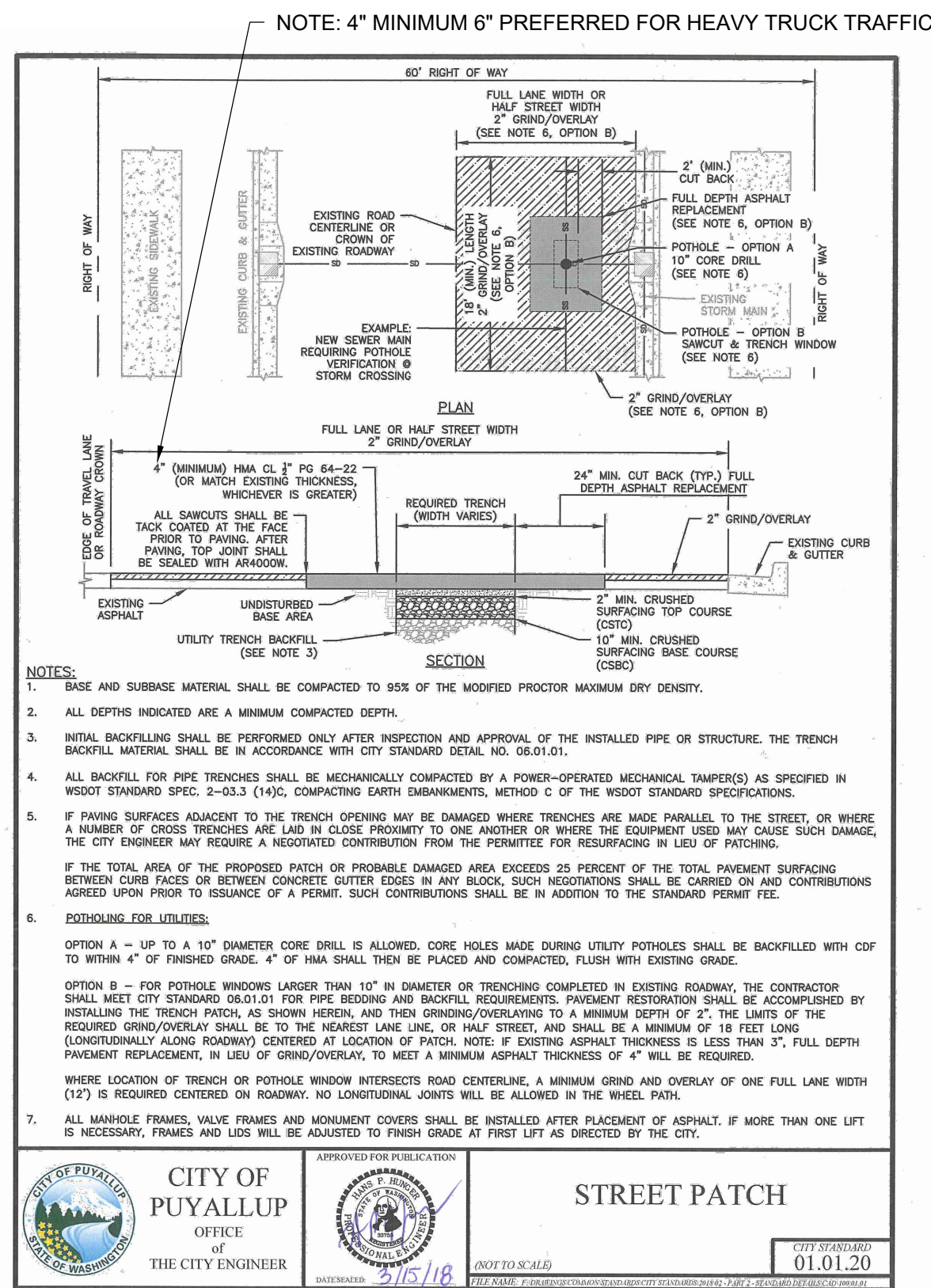
Revise note to say that connection is to be made at new J Box at the west property line of the neighbor to the east. Project needs to confirm proper wire size and voltage for this length of run. City can provide details of recent installation.



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

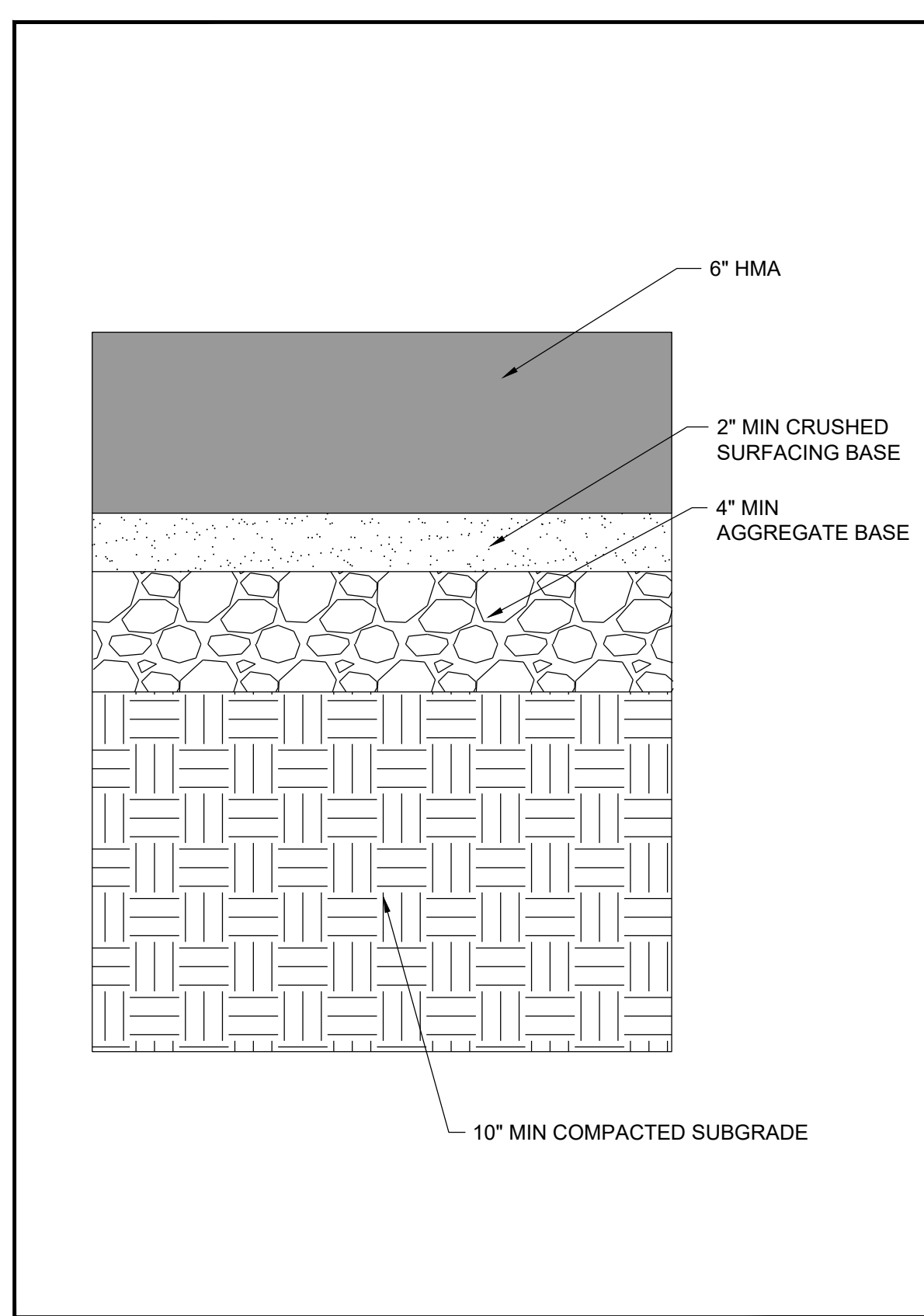
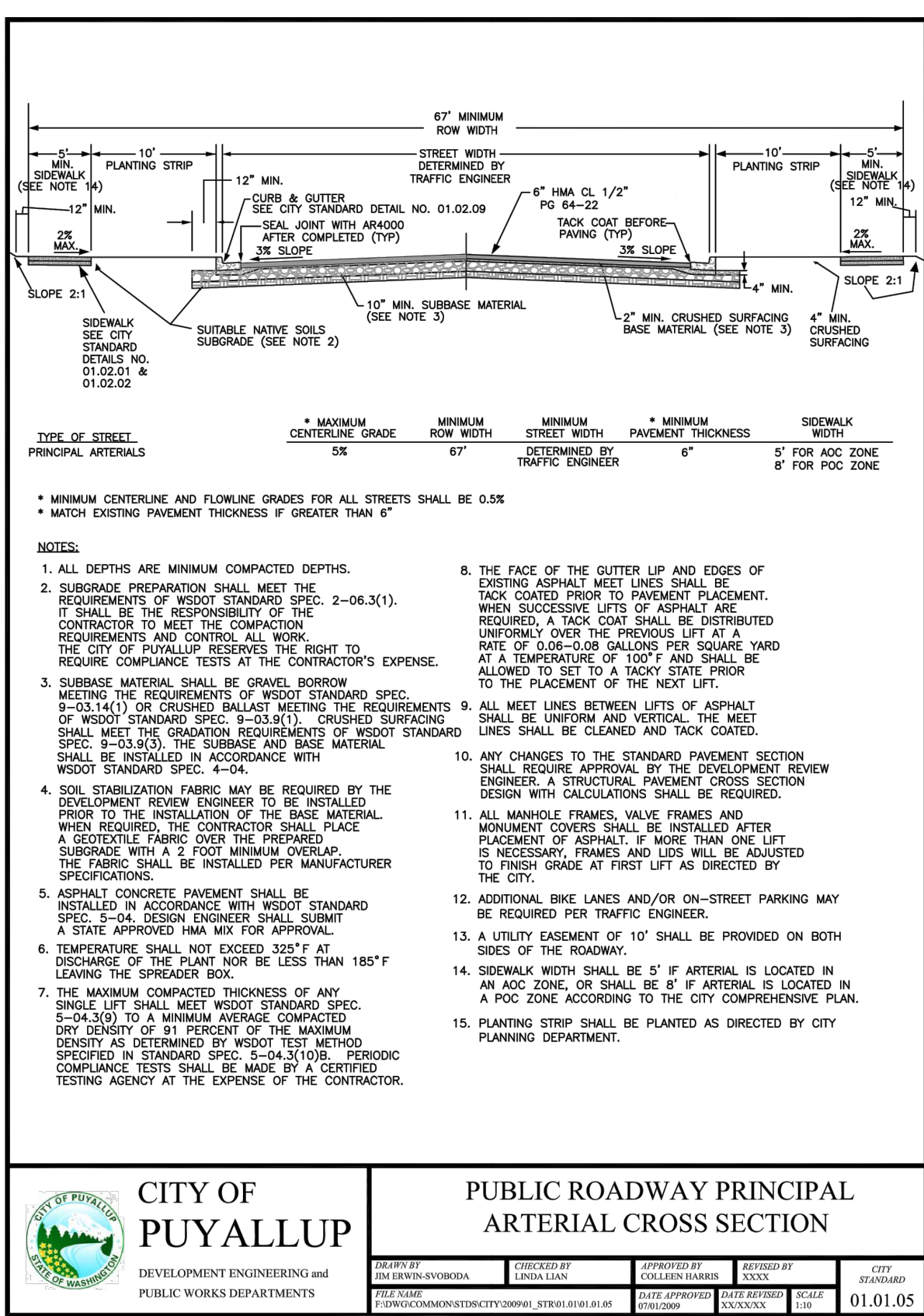
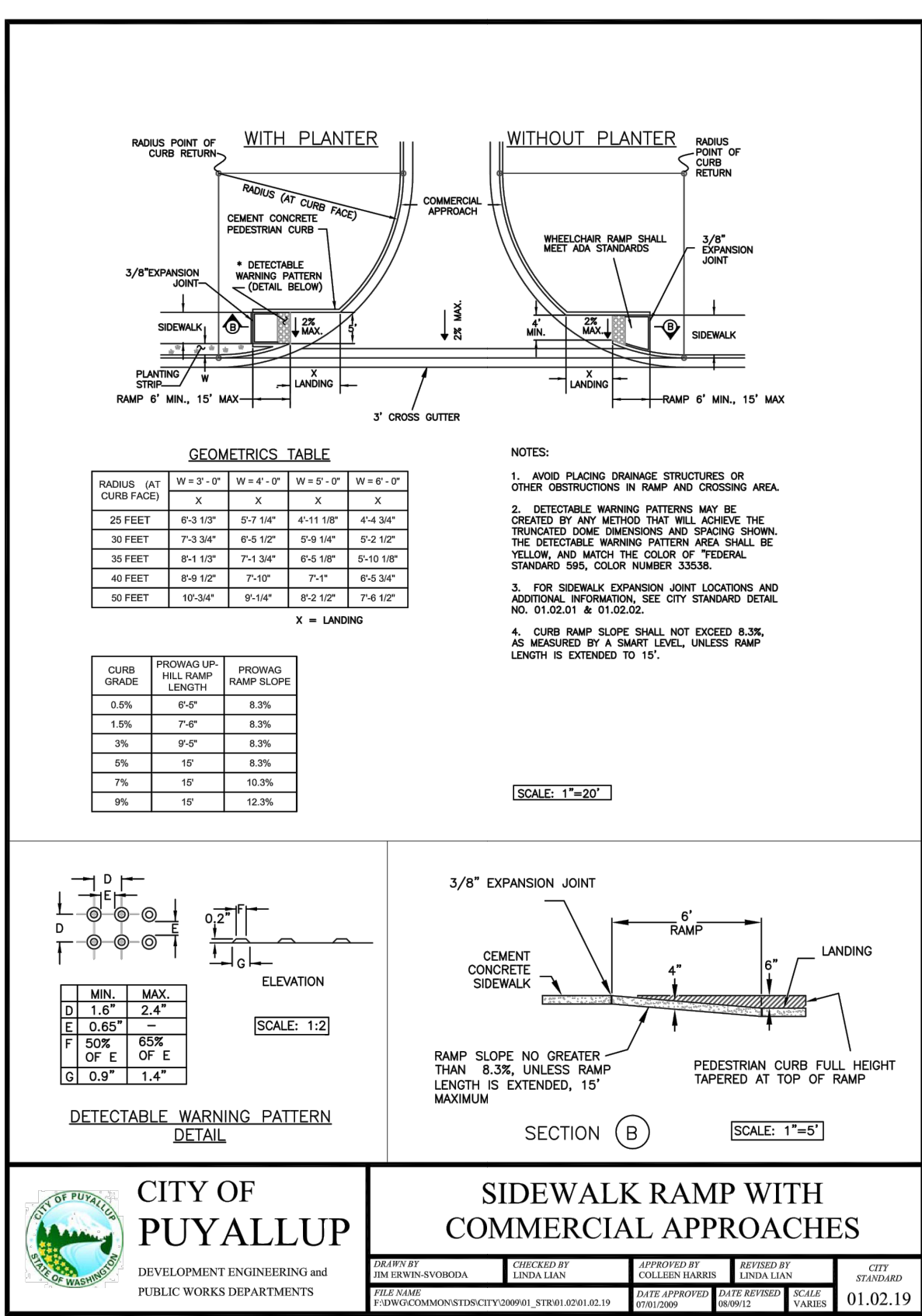
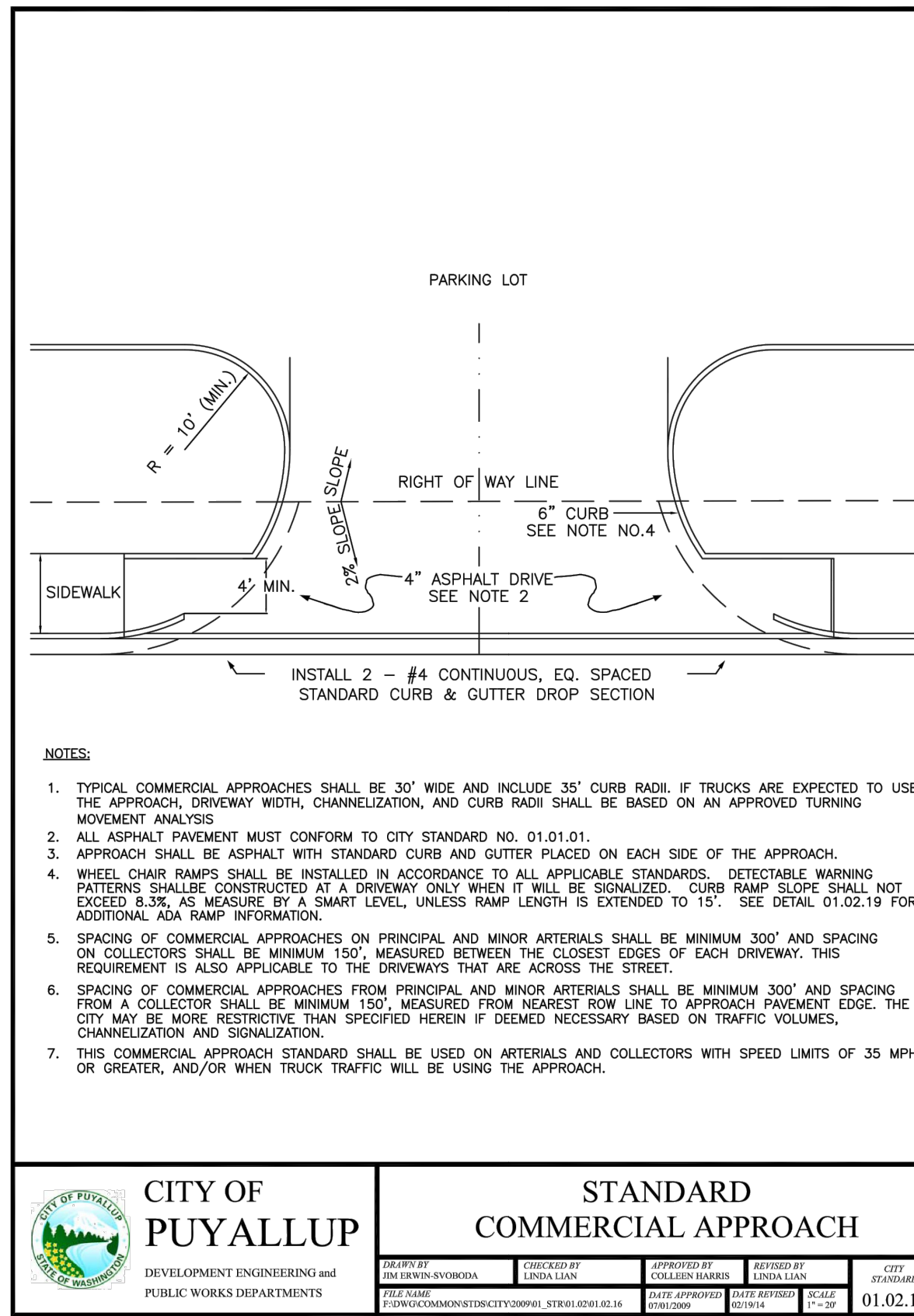


1 STREET PATCH
SCALE:NTS

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: _____
NOTE: THIS APPROVAL IS VOID
AFTER 180 DAYS FROM APPROVAL
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RESPONSIBLE FOR ERRORS
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PLANS.
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DEVELOPMENT ENGINEERING
MANAGER.

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202 East 34th Street
Tacoma, Washington 98404

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ENGINEERING

2401 INTER
NOTES AND DETAILS

2401 INTER AVE SE
PUYALLUP, WA 98372

DESCRIPTION	DATE	SCALE
INITIAL RELEASE	01/24/25	N.T.S.
SECOND RELEASE	06/23/25	

NUM	DATE	SCALE
V1	01/24/25	N.T.S.
V2	06/23/25	

DESIGNED	CHECKED
W. MCINNIS	J. MCINNIS

DRAWN	APPROVED
J. MCINNIS	J. MCINNIS

DATE	SCALE
8/5/2025	

JOB NO.	SCALE
24-166	N.T.S.

SHEET	OF
C8	C13

C8

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

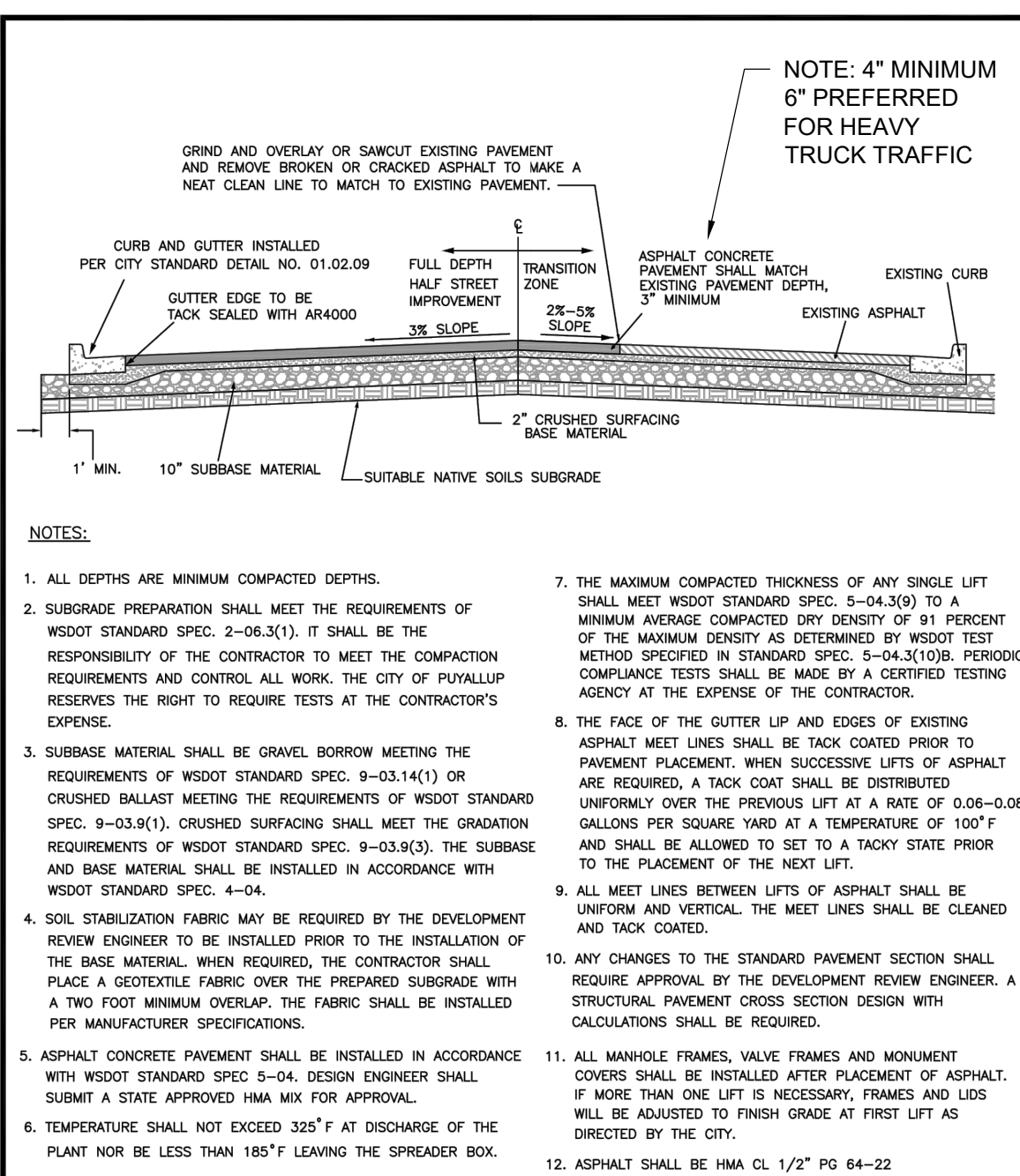
Plotted: 8/5/25 Plotted By: _____

2401 INTER NOTES AND DETAILS

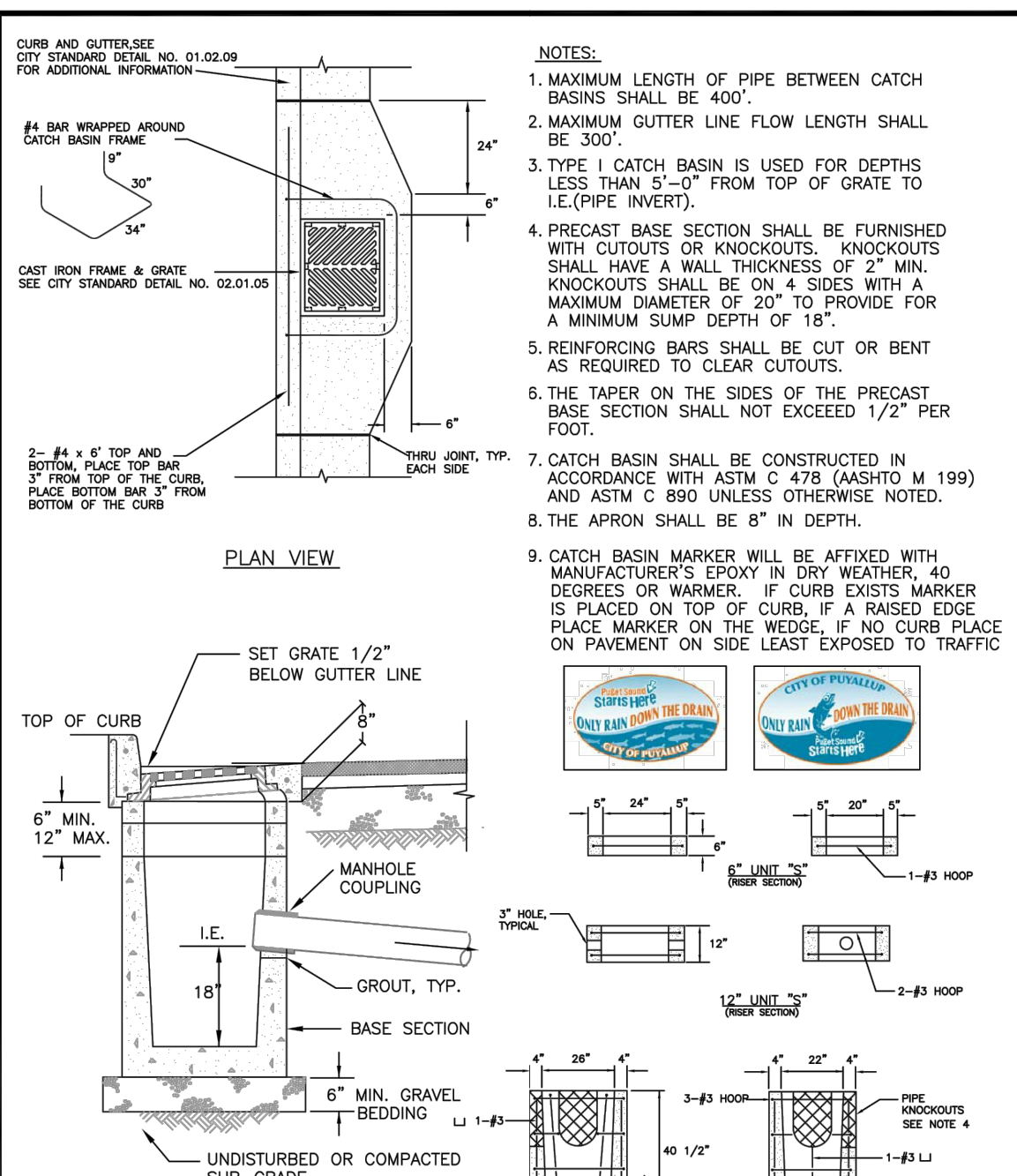
A PORTION OF THE SW 1/4 OF SECTION 26, TOWNSHIP 20 N, RANGE 4 E, W.M. PIERCE COUNTY, WA

CITY OF PUYALLUP ROADWAY PLAN NOTES

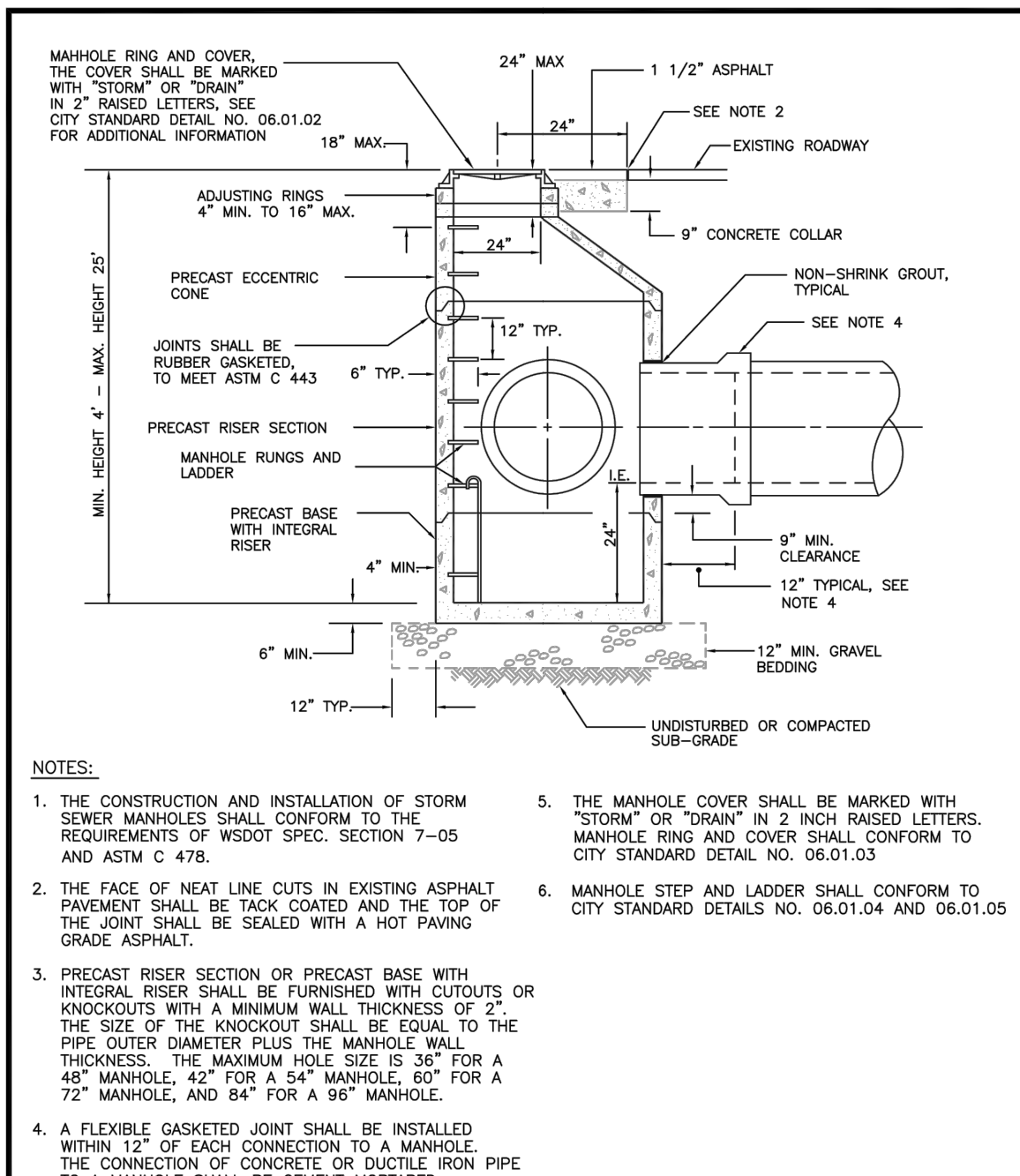
- ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS. REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF, CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
- AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
- A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE ENGINEERING SERVICES STAFF PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT, SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- 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.
- CURB AND GUTTER INSTALLATION SHALL CONFORM TO CITY STANDARD DETAIL 01.02.09.
- 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 CURBS AND GUTTER, THE REPAIR SHALL CONFORM TO CITY STANDARD DETAIL 01.02.10.
- 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.
- 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. 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).
- 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.
- 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.



CITY OF PUYALLUP	HALF STREET IMPROVEMENT
DESIGNED BY: LINDA LANDSHOFF	DESIGNED BY: LINDA LANDSHOFF
CHECKED BY: LINDA LANDSHOFF	CHECKED BY: LINDA LANDSHOFF
APPROVED BY: COLLEEN HARRIS	APPROVED BY: COLLEEN HARRIS
DATE: 01.01.19	DATE: 01.01.19



CITY OF PUYALLUP	CATCH BASIN TYPE 1 (GUTTER DRAIN)
DESIGNED BY: LINDA LANDSHOFF	DESIGNED BY: LINDA LANDSHOFF
CHECKED BY: LINDA LANDSHOFF	CHECKED BY: LINDA LANDSHOFF
APPROVED BY: COLLEEN HARRIS	APPROVED BY: COLLEEN HARRIS
DATE: 02.01.03	DATE: 02.01.03



CITY OF PUYALLUP	STORM SEWER MANHOLE
DESIGNED BY: LINDA LANDSHOFF	DESIGNED BY: LINDA LANDSHOFF
CHECKED BY: LINDA LANDSHOFF	CHECKED BY: LINDA LANDSHOFF
APPROVED BY: COLLEEN HARRIS	APPROVED BY: COLLEEN HARRIS
DATE: 02.01.01	DATE: 02.01.01

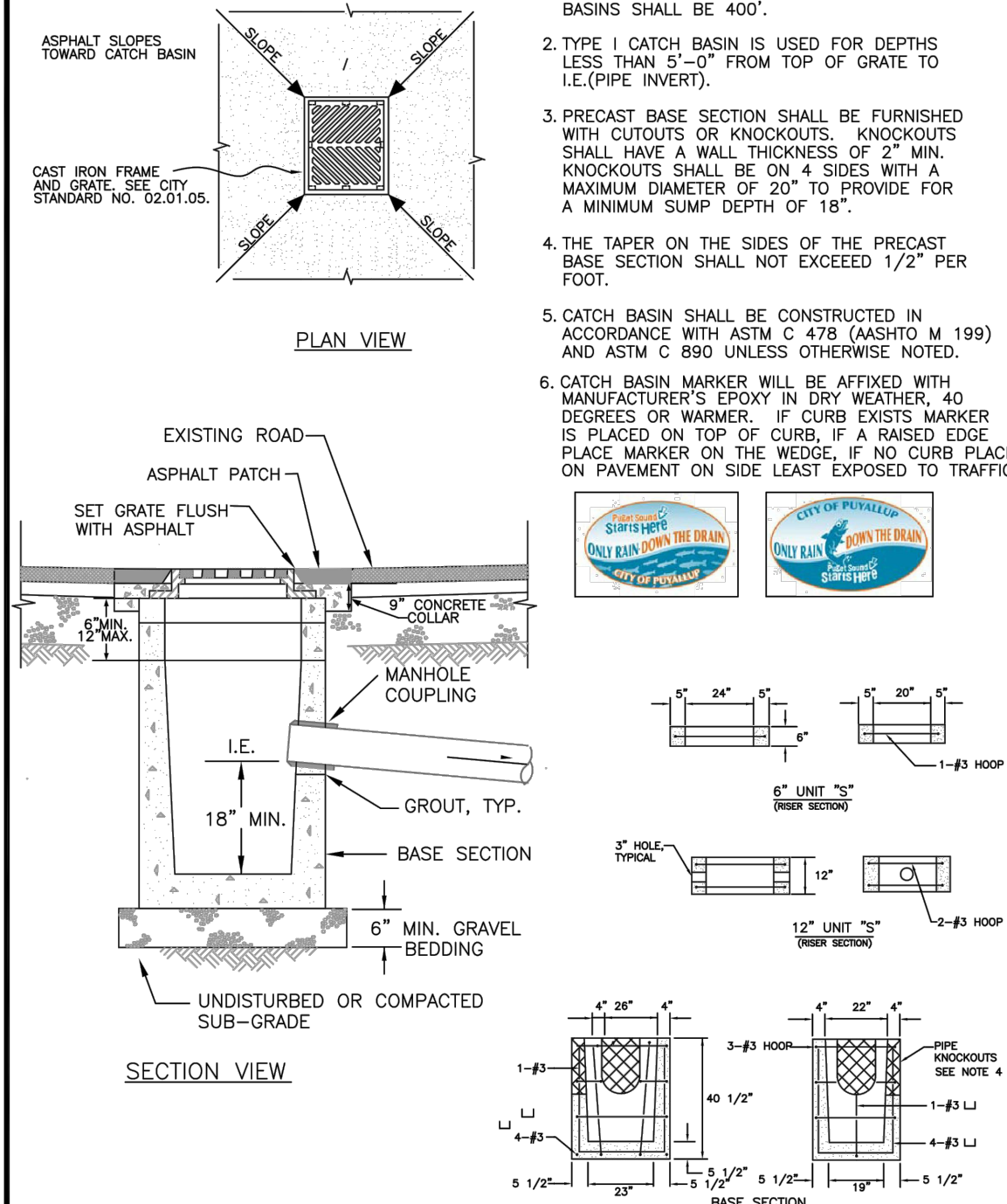
1 HALF STREET IMPROVEMENT SCALE:NTS

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

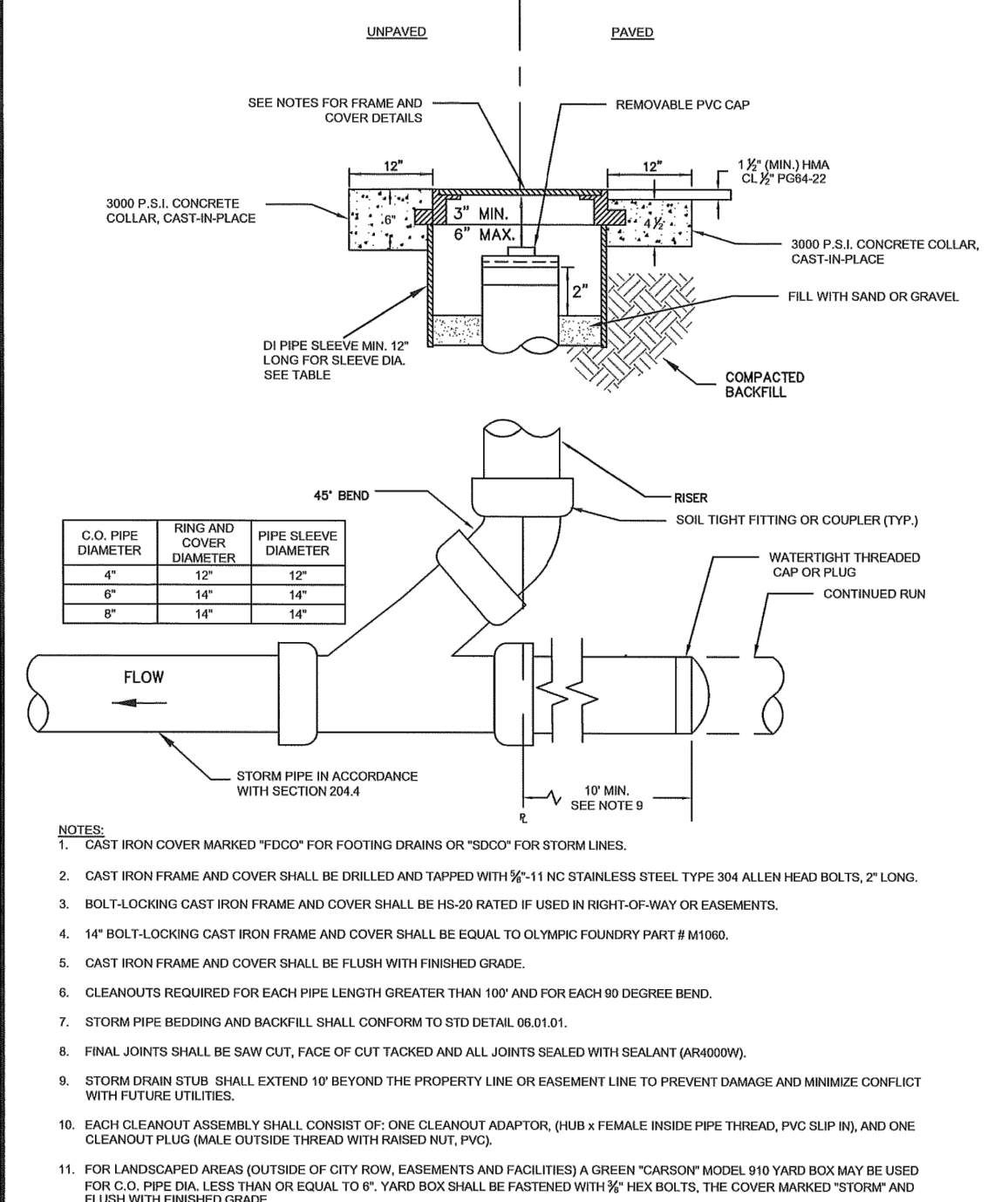
3 STORM SEWER MANHOLE SCALE:NTS

- NOTES FOR FLOW CONTROL MANHOLE:**
- NEAT LINE CUTS SHALL BE AT TOP WITH A HOT PAVING GRADE ASPHALT AND FACE OF CUT TACKED.
 - FLOW CONTROL MANHOLES SHALL BE USED AS A SINGLE USE STRUCTURE.
 - MANHOLE RUNG SHALL CONFORM TO SECTION R, ASTM C 478 (ASHTO M-199) 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.
 - PRECAST CONCRETE MANHOLE COMPONENTS SHALL CONFORM TO ASTM C 478.
 - 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.
 - 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.
 - 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.
 - FLOW CONTROL UNIT SHALL BE MADE FROM PVC PIPE AND SHALL CONFORM TO THE STANDARD PIPE SPECIFICATIONS.

CITY OF PUYALLUP	FLOW CONTROL MANHOLE NOTES
DESIGNED BY: LINDA LANDSHOFF	DESIGNED BY: LINDA LANDSHOFF
CHECKED BY: LINDA LANDSHOFF	CHECKED BY: LINDA LANDSHOFF
APPROVED BY: COLLEEN HARRIS	APPROVED BY: COLLEEN HARRIS
DATE: 02.01.08	DATE: 02.01.08



CITY OF PUYALLUP	CATCH BASIN TYPE 1 (AREA DRAIN)
DESIGNED BY: LINDA LANDSHOFF	DESIGNED BY: LINDA LANDSHOFF
CHECKED BY: LINDA LANDSHOFF	CHECKED BY: LINDA LANDSHOFF
APPROVED BY: COLLEEN HARRIS	APPROVED BY: COLLEEN HARRIS
DATE: 02.01.02	DATE: 02.01.02

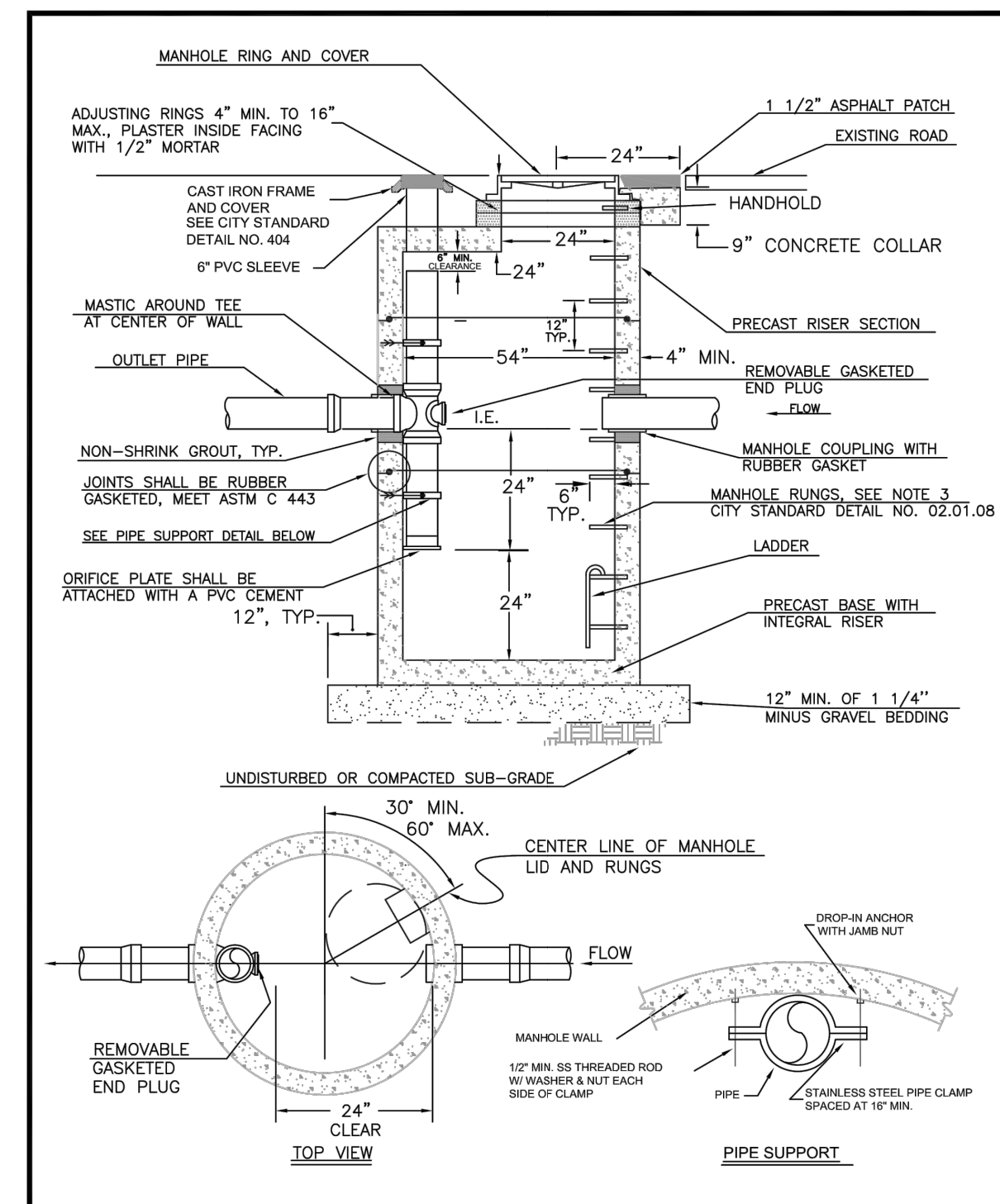


CITY OF PUYALLUP	STORM DRAIN CLEANOUT
DESIGNED BY: LINDA LANDSHOFF	DESIGNED BY: LINDA LANDSHOFF
CHECKED BY: LINDA LANDSHOFF	CHECKED BY: LINDA LANDSHOFF
APPROVED BY: COLLEEN HARRIS	APPROVED BY: COLLEEN HARRIS
DATE: 02.01.09	DATE: 02.01.09

5 FLOW CONTROL MANHOLE NOTES SCALE:NTS

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

7 STORM DRAIN CLEANOUT SCALE:NTS



CITY OF PUYALLUP	FLOW CONTROL MANHOLE WITH FLAT TOP
DESIGNED BY: LINDA LANDSHOFF	DESIGNED BY: LINDA LANDSHOFF
CHECKED BY: LINDA LANDSHOFF	CHECKED BY: LINDA LANDSHOFF
APPROVED BY: COLLEEN HARRIS	APPROVED BY: COLLEEN HARRIS
DATE: 02.01.07	DATE: 02.01.07

4 FLOW CONTROL MANHOLE WITH FLAT TOP 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

- ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF, CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
- AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
- A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE ENGINEERING SERVICES STAFF PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRE REMOVAL OR RELOCATION RELATING TO THIS PROJECT, SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- DURING CONSTRUCTION, ALL EXISTING AND NEWLY INSTALLED DRAINAGE STRUCTURES SHALL BE PROTECTED FROM SEDIMENTS.
- 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.
- 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.
- CATCH BASINS TYPE I SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.02 AND 02.01.03. SHALL BE USED ONLY FOR DEPTHS LESS THAN 5 FEET FROM TOP OF THE GRATE TO THE INVERT OF THE STORM PIPE.
- 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.
- 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).
- STORMWATER PIPE SHALL BE ONLY PVC, CONCRETE OR DUCTILE IRON PIPE.
- THE USE OF ANY OTHER TYPE SHALL BE REVIEWED AND APPROVED BY THE ENGINEERING SERVICES STAFF PRIOR TO INSTALLATION.
- PVC PIPE SHALL BE PER ASTM D3034, SDR 35 FOR PIPE SIZE 15-INCH AND SMALLER AND B79 FOR PIPE SIZES 18 TO 27 INCH. MINIMUM COVER ON PVC PIPE SHALL BE 3.0 FEET.
- 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.
- DUCTILE IRON PIPE SHALL BE CLASS 50, CONFORMING TO AWWA C151. MINIMUM COVER ON DUCTILE IRON PIPE SHALL BE 1.0 FOOT.
- 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 ASHTO M330, TYPE S, OR TYPE D. 36-INCH THROUGH 60-INCH PIPE SHALL MEET OR EXCEED ASTM F2881 AND ASHTO M330, TYPE S, OR TYPE D. TESTING SHALL BE PER ASTM F1417. MINIMUM COVER OVER POLYPROPYLENE PIPE SHALL BE 3-FEET.
- TRENCHING, BEDDING, AND BACKFILL FOR PIPE SHALL CONFORM TO CITY STANDARD DETAIL NO. 06.01.01.
- STORM PIPE SHALL BE A MINIMUM OF 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.
- 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.
- ALL STORM DRAIN MAINS SHALL BE MANDRELLED.
- 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

mcinnisengineering.com
253.414.1992

202 East 34th Street
Tacoma, Washington 98404

McInnis
ENGINEERING

2401 INTER
NOTES AND DETAILS

2401 INTER AVE SE
PUYALLUP, WA 98372

DESIGNED
W. MCINNIS

DRAWN
W. MCINNIS

DATE
8/5/2025

SCALE
N.T.S.

CHECKED
J. MCINNIS

APPROVED
J. MCINNIS

JOB NO.
24-166

SHEET
C9 OF C13

C9

DESCRIPTION

INITIAL RELEASE

SECOND RELEASE

DATE

01/24/25

06/23/25

NUM

V1

V2

Plotted: 8/5/25

Plotted By: ---

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.

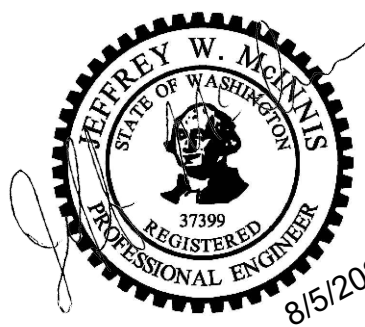
mcinnisengineering.com
253.414.1992

202 East 34th Street
Tacoma, Washington 98404

McInnis
ENGINEERING

2401 INTER
NOTES AND DETAILS

2401 INTER AVE SE
PUYALLUP, WA 98372



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

DESIGNED	W. MCINNIS	SCALE	N.T.S.
DRAWN	J. MCINNIS	CHECKED	J. MCINNIS
DATE	8/5/2025	APPROVED	J. MCINNIS
JOB NO.	24-166		
SHEET	C10	OF	C13
	C10		

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

File: P:\MCINNIS ENGINEERING\PROJECTS\PROJECT 2025\2401 Inter_DRAWINGS\SDV Sheets\24-166 - SDV - 2401 INTER - C8 - C13 NOTES & DETAILS.dwg

Plotted: 8/5/25

Plotted By: —

STREET LIGHTING SPECIFICATIONS

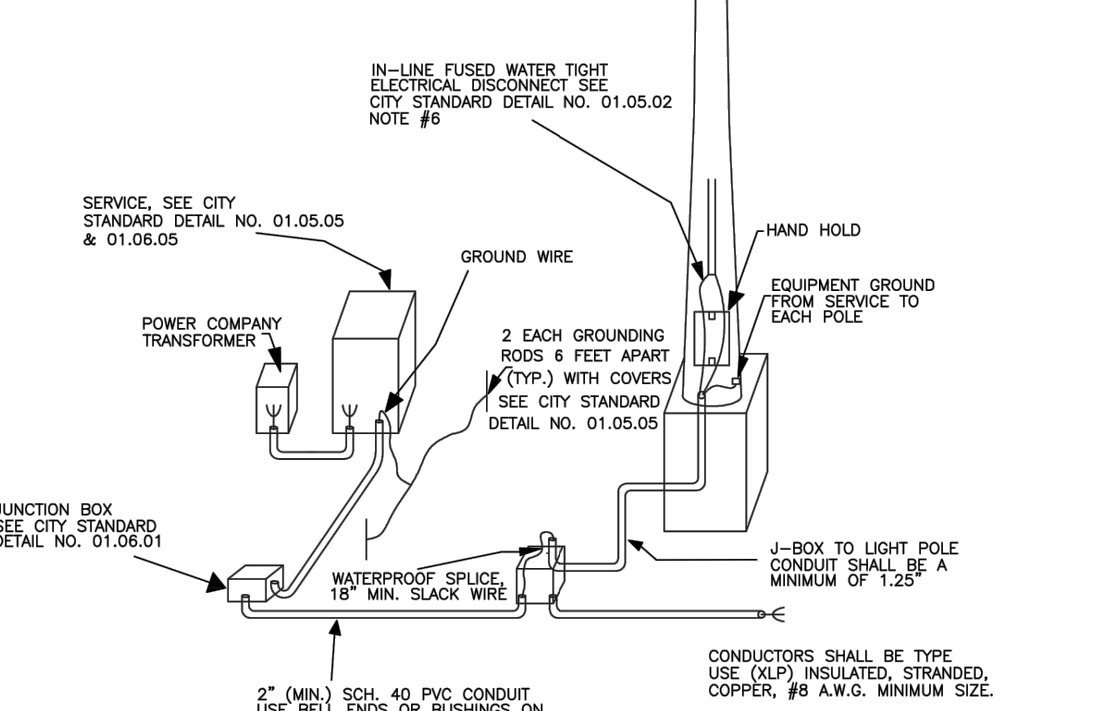
- 30-FOOT STEEL STREETLIGHT STANDARD
 - DIMENSIONS
STREETLIGHT STANDARDS SHALL PROVIDE A FIXTURE MOUNTING HEIGHT OF 30'0" PLUS OR MINUS 6" WITH A TYPICAL 12 FOOT MAST ARM WITH A THREE FOOT OVERHANG.
BASE PLATE SHALL HAVE SLOTTED HOLES TO ACCOMMODATE 1-INCH ANCHOR BOLTS, AND 1 1/2" BOLT CIRCLE WITH MINIMUM 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.
 - 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.
 - FINISH
THE POLES AND ALL HARDWARE SHALL BE HOT DIPPED GALVANIZED, MINIMUM 3 MIL THICKNESS.
MAST ARM ATTACHMENT SHALL BE SECURED BY 3 BOLTS.
 - EACH POLE SHALL HAVE HANDHOLE (WITH COVER), GROUND LUG AND REMOVABLE POLE CAP.
 - EACH CITY POLE SHALL HAVE A BLACK 4" TO 6" LETTER C STENCILED ON ROADWAY SIDE OF POLE 14" ABOVE GRADE.
 - ANCHORAGE
 - POLES SHALL BE ANCHORED WITH 4 BOLTS, 1"X3/8"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.
 - 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.
 - 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 8-29 OF WSDOT STANDARD SPECIFICATIONS. SCHEDULE 80 PVC MAY BE USED IN LOCATIONS OTHER THAN ROADWAY CROSSINGS.

(STR LIGHT SPECS CONTINUED)

- 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 GROUNDING. THE LETTERS "J" 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.
- 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 BALUST AND IN-LINE FUSES SHALL BE ROME 20 AWG 10 STRANDED POLE AND BRACKET WIRE OR APPROVED EQUAL. SPACES WILL BE ALLOWED IN JUNCTION BOXES AND POLE BASES ONLY. NO MORE THAN 2 CONDUITS WILL BE ALLOWED INSIDE THE STREET POLE.
- FUSES
LUMINAIRE FUSING AND ELECTRICAL CONNECTIONS AT LIGHT STANDARD BASES SHALL CONFORM TO SECTION 8-29.7 OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS AND AS SHOWN ON THE UNIFORM LUMINAIRE WIRING DETAIL IN THE APPENDIX. IN-LINE FUSE HOLDERS SHALL BE SEC. MODEL 1791-SF WITH FPM-5 FUSES OR APPROVED EQUAL. (REFER TO CITY STANDARD DETAIL NO. 01.06.01)
- LUMINAIRES AND LAMPS
RESIDENTIAL STREETS AND NEIGHBORHOOD COLLECTORS.
LETTER LED CCL-40E-W-MW-2-530 (51 WATT LED)
ARTISANAL AND COMMERCIAL COLLECTORS.
GE EXOLVE LED CSE-E-3-10-35-5-40 (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.
- SAFE WIRING LABELS
THE CONTRACTOR IS ADVISED THAT SAFE WIRING LABELS REQUIRED BY LABOR AND INDUSTRIES SHALL APPLY ON THIS PROJECT. (ELECTRICAL INSPECTION STICKER)
- 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.
- LOCATION
SEE CITY STANDARD SECTION 01.01 ROADWAY DESIGN.

NOTES:

- A METER SERVICE DISCONNECT IS REQUIRED FOR EACH BRANCH CIRCUIT. SEE CITY STANDARD DETAIL NO. 01.05.05
- INSTALLATION SHALL CONFORM TO NATIONAL ELECTRICAL CODE, WSDOT, AND CITY STANDARDS.
- PHASING TAPE IS NOT ALLOWED.
- ALL WIRES SHALL BE INSTALLED IN CONDUIT AS SPECIFIED ABOVE.
- ALL SPLICES SHALL BE MADE IN A JUNCTION BOX. WIRE NUTS WILL NOT BE ALLOWED. SPLICES SHALL BE CENTERED AND ENCASED IN 3M SCOTCHCAST EPOXY KIT TYPE EC-24, EC-21, EC-21, OR CITY APPROVED EQUAL OTHER GEL TAP SPACE NTS AND DIRECT BURNAL AND SUBMERISABLE SPLICES TO BE ALLOWED IF APPROVED BY THE CITY.
- GROUND ROD COVER SHALL BE UTILITY VAULT #818-924 OR APPROVED EQUIVALENT.

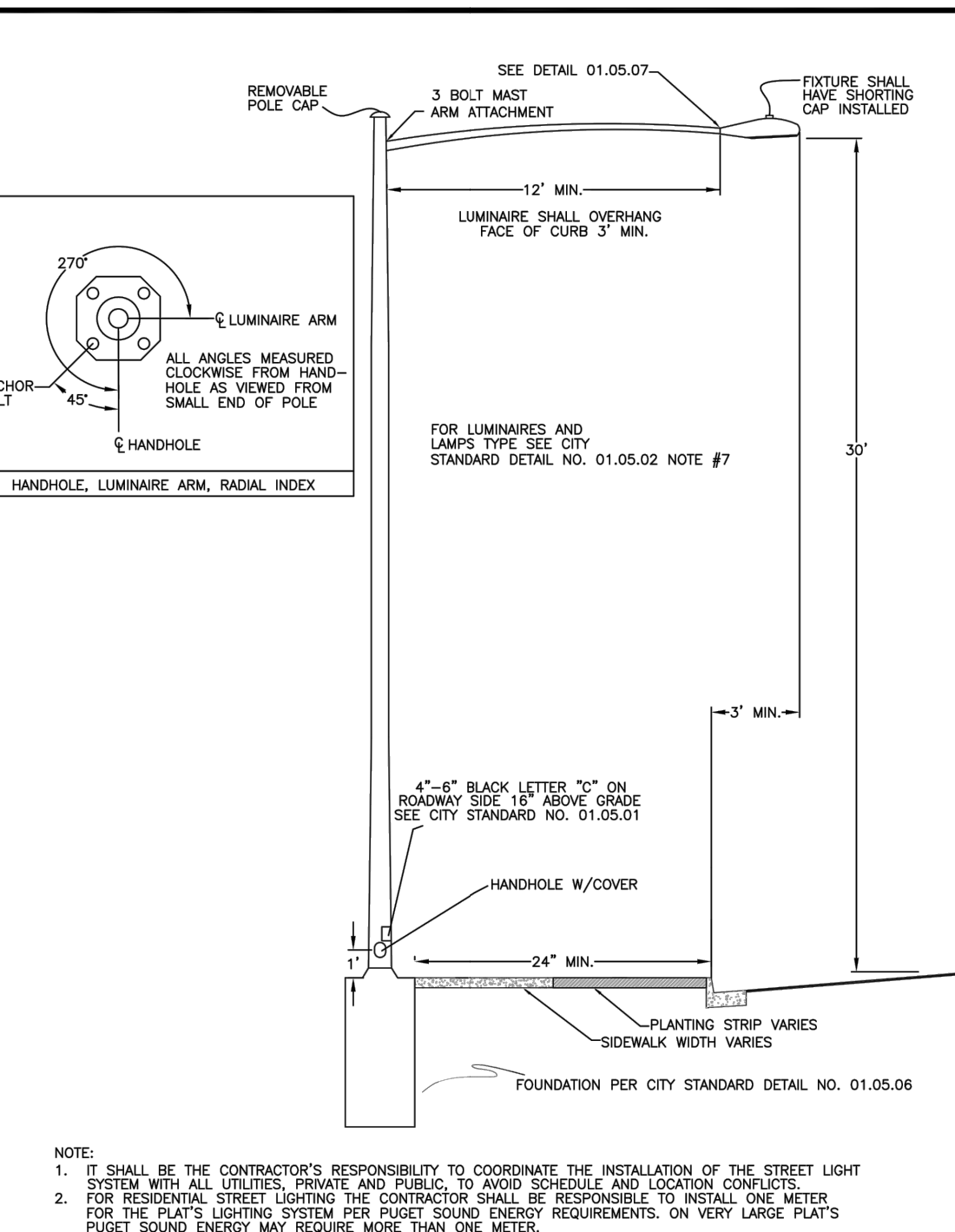


CITY OF
PUYALLUP

STREET LIGHT
SPECIFICATIONS (CONT.)

DESIGNED BY	W. MCINNIS	CHECKED BY	J. MCINNIS	APPROVED BY	J. MCINNIS	DATE	01.05.05
DATE	01.05.05	DATE	01.05.05	DATE	01.05.05	DATE	01.05.05

3 TYPICAL STREET LIGHT INSTALLATION SCALE: NTS



- NOTE:
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE INSTALLATION OF THE STREET LIGHT SYSTEM WITH ALL UTILITIES, PRIVATE AND PUBLIC, TO AVOID SCHEDULE AND LOCATION CONFLICTS.
 - FOR RESIDENTIAL STREET LIGHTING THE CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL ONE METER FOR THE PLANT LIGHTING SYSTEM PER HOUSE. SOUND ENERGY REQUIREMENTS ON VERY LARGE PLAYS PULSED SOUND ENERGY MAY REQUIRE MORE THAN ONE METER.
 - LUMINAIRE TO BE FLAT LENS GLASS WITH CUT OFF. 150W FOR SIGNALIZED INTERSECTIONS. 150W OR 200W FOR COMMERCIAL AREA AND 100W FOR RESIDENTIAL.

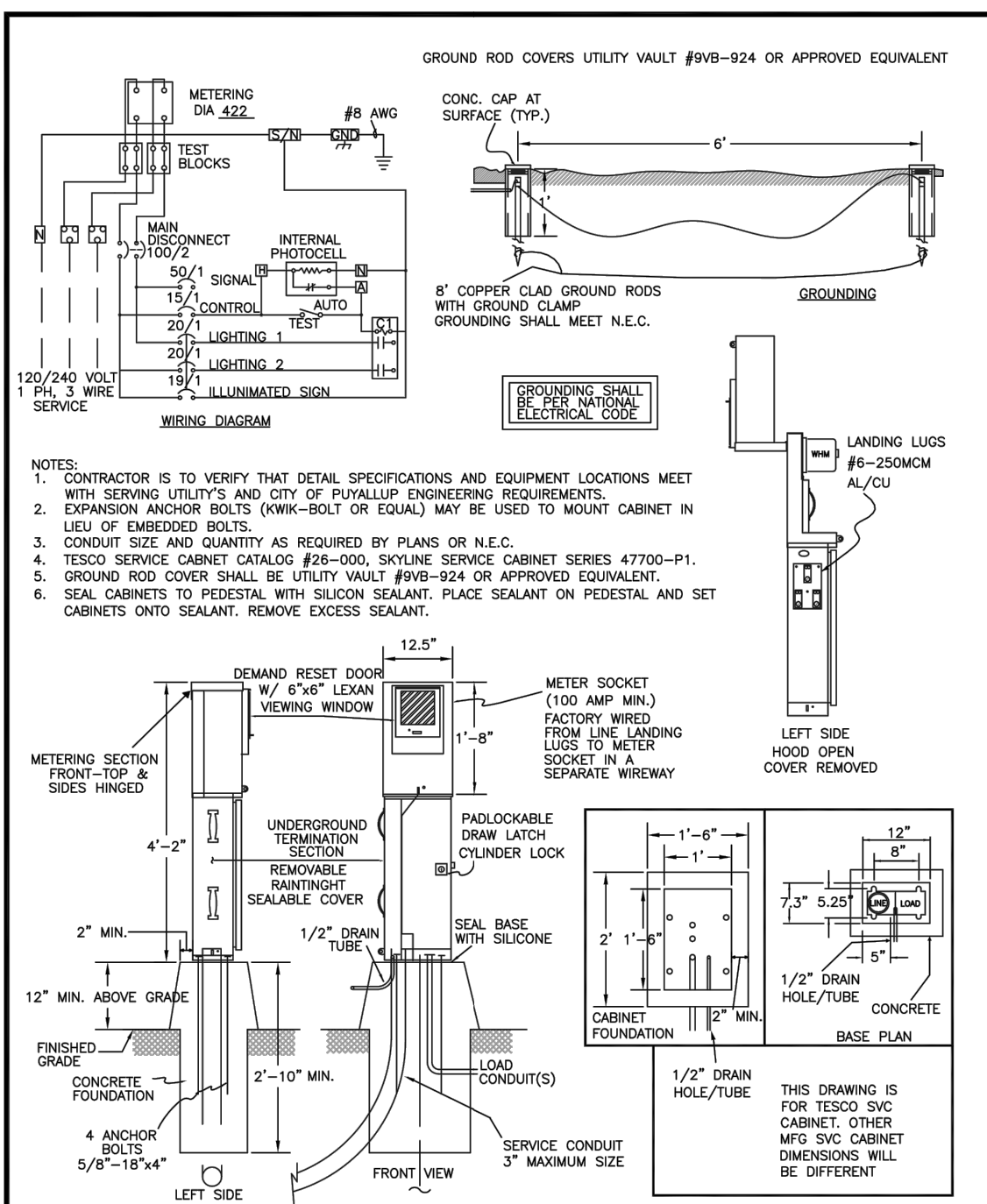
CITY OF
PUYALLUP

STREET LIGHT

DESIGNED BY	W. MCINNIS	CHECKED BY	J. MCINNIS	APPROVED BY	J. MCINNIS	DATE	01.05.05
DATE	01.05.05	DATE	01.05.05	DATE	01.05.05	DATE	01.05.05

4 STREET LIGHT SCALE: NTS

1 STREET LIGHT SPECIFICATIONS SCALE: NTS

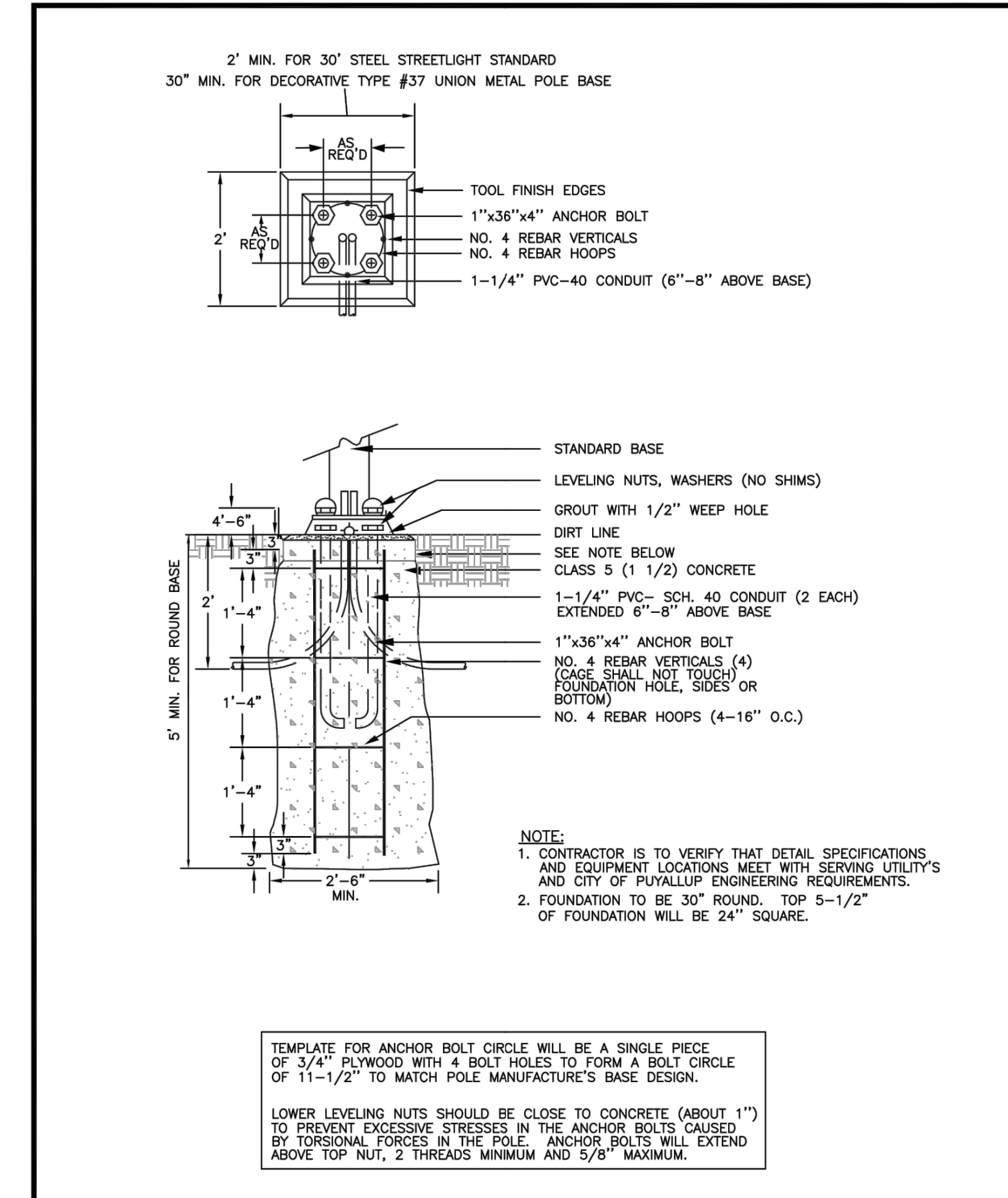


CITY OF
PUYALLUP

STREET LIGHT SERVICE METER
CABINET FOUNDATION

DESIGNED BY	W. MCINNIS	CHECKED BY	J. MCINNIS	APPROVED BY	J. MCINNIS	DATE	01.05.05
DATE	01.05.05	DATE	01.05.05	DATE	01.05.05	DATE	01.05.05

2 STREET LIGHT SPECIFICATIONS (CONT.) SCALE: NTS

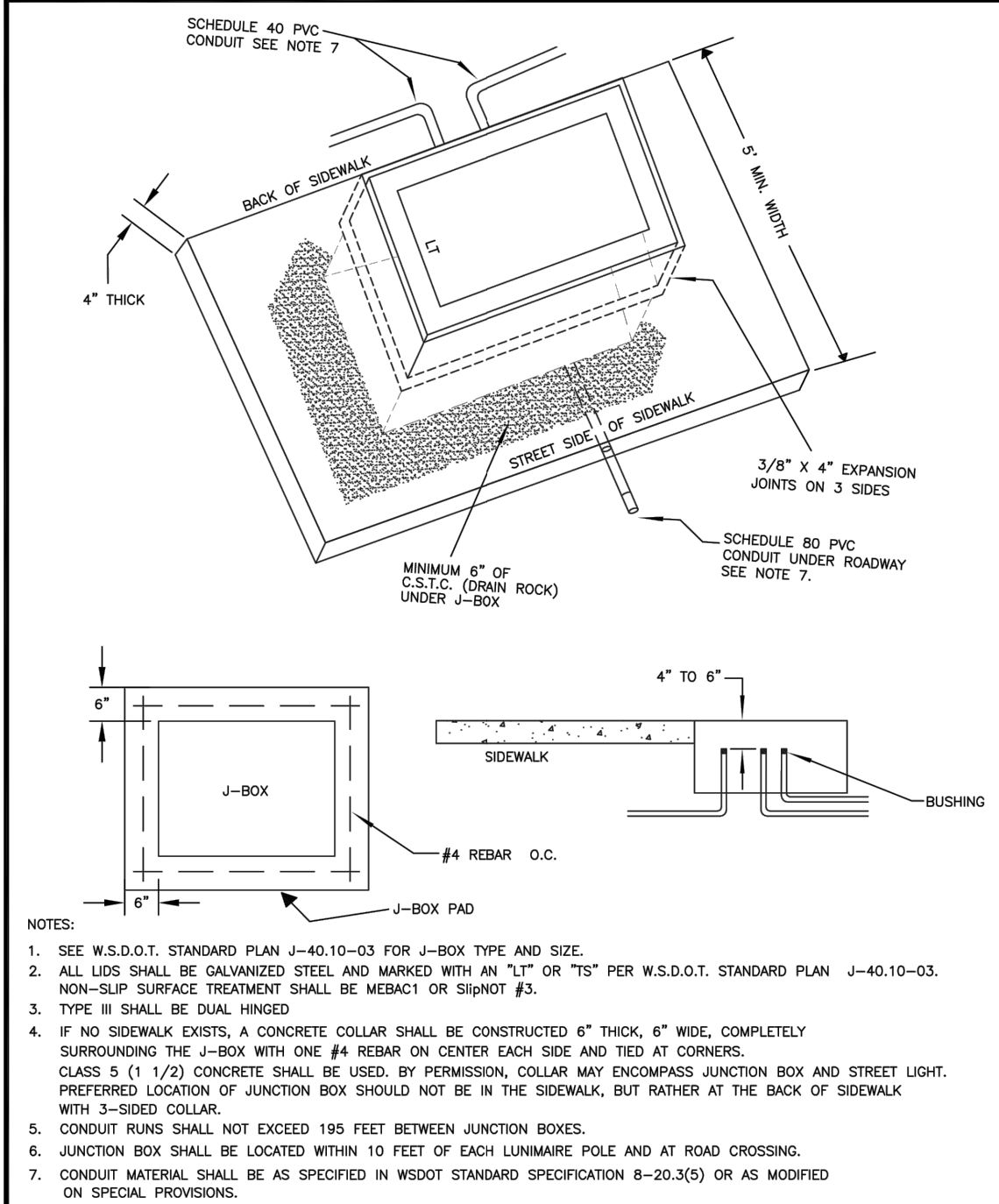


CITY OF
PUYALLUP

CONCRETE STREETLIGHT
FOUNDATION TYPICAL

DESIGNED BY	W. MCINNIS	CHECKED BY	J. MCINNIS	APPROVED BY	J. MCINNIS	DATE	01.05.06
DATE	01.05.06	DATE	01.05.06	DATE	01.05.06	DATE	01.05.06

7 JUNCTION BOX SCALE: NTS

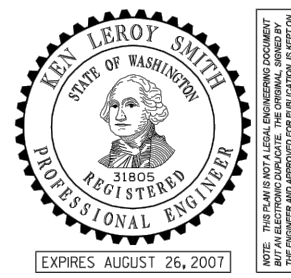
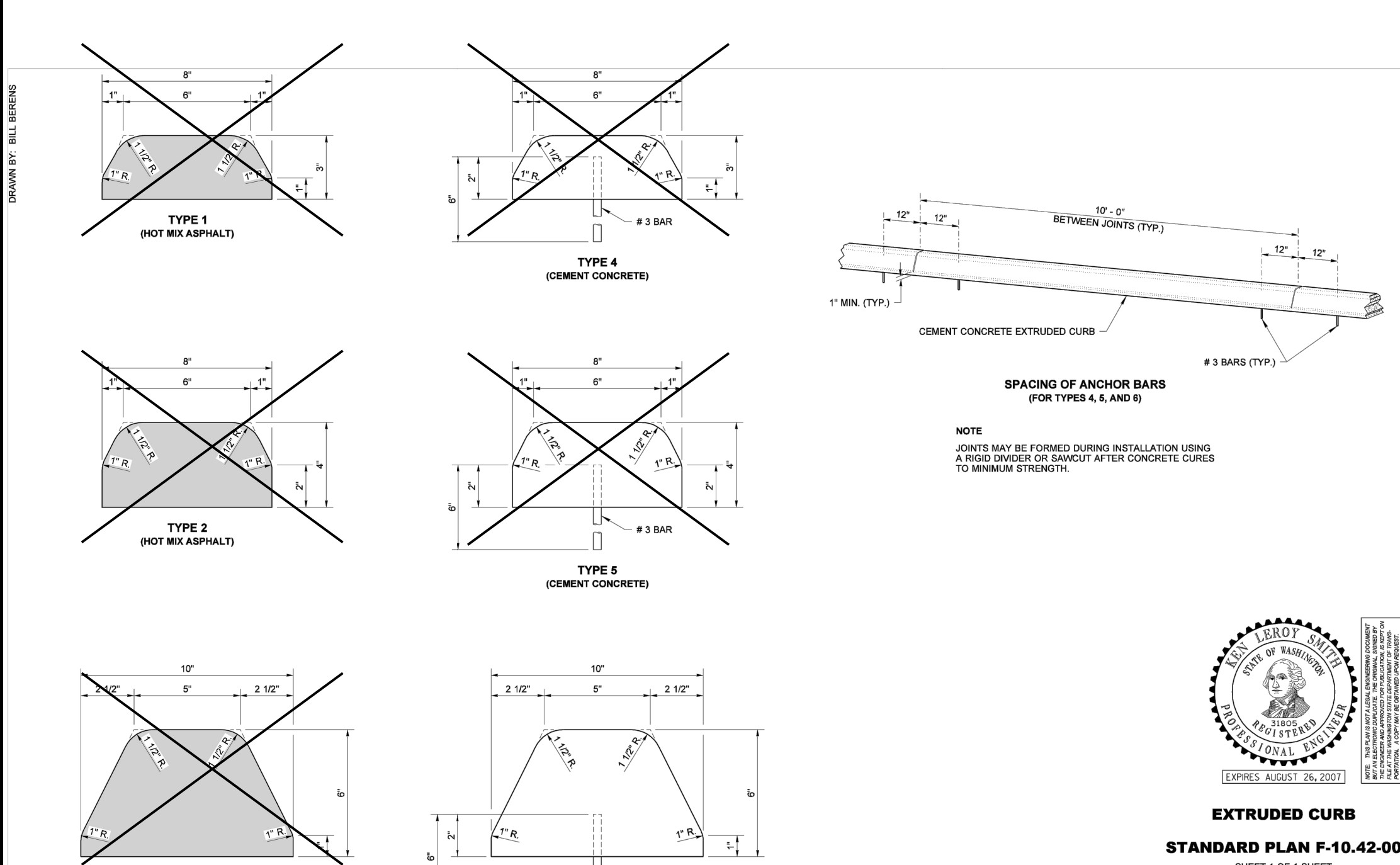


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PUYALLUP

JUNCTION BOX

DESIGNED BY	W. MCINNIS	CHECKED BY	J. MCINNIS	APPROVED BY	J. MCINNIS	DATE	01.06.01
DATE	01.06.01	DATE	01.06.01	DATE	01.06.01	DATE	01.06.01

8 EXTRUDED CURB DETAILS SCALE: NTS



EXTRUDED CURB
STANDARD PLAN F-10.42-00

SHEET 1 OF 1 SHEET
APPROVED FOR PUBLICATION
Kevin L. Smith
01-23-07
Washington State Department of Transportation

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

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CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

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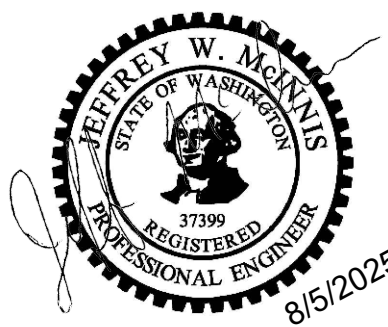
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Tacoma, Washington 98404

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2401 INTER NOTES AND DETAILS

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PUYALLUP, WA 98372



8/5/2025

NUM	DATE	DESCRIPTION
V1	01/24/25	INITIAL RELEASES
V2	06/23/25	SECOND RELEASES
DESIGNED W. MCINNIS		SCALE N.T.S.
DRAWN W. MCINNIS		CHECKED J. MCINNIS
DATE 8/5/2025		APPROVED J. MCINNIS

24-166

SHEET
C11 OF C13

C11

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Plotted: 8/5/2



Plotted By: ---

PROJECT INFORMATION

ENGINEERED PRODUCT	AVERY SCOTT 87-227-0864 AVERY SCOTT@aospfpe.com
ADS SALES REP:	JOE SHEELY 253-255-4302 JOE.SHEELY@ADSPIPE.COM
PROJECT NO:	330928



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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 4VS-1000 DESIGNATION 3S.
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPIDE 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 LONG-DURATION 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 STACING LOGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 1".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LB/FT². THE ASD IS DEFINED IN SECTION 6.2.4 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PROVIDED FROM REFLECTIVE GOLD OR YELLOW COLORED.
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 SIGNED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.5 FOR DEAD LOAD AND 1.75 FOR LIVE LOADS, 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-3500MC-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:
 - STONE/ROCK LAYERED ON TOP OF 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 HDS OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELLED 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 "EXTENSOMAT CATCH" 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-3500MC-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-3500MC-4500 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500MC-4500 CONSTRUCTION GUIDE".
3. FILL 30" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL, OR DUMPING.
4. 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 1-888-892-2894 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

1) STORMTECH DETAIL 1 OF 6
SCALE: NTS

[illegible]

3 STORMTECH DETAIL 3 OF 6
SCALE:NTS

PROPOSED LAYOUT

20.00	STORMTECH MC-3500 CHAMBERS
20	STORMTECH MC-3500 END CAPS
12	STONE ABOVE (in)
8	STONE BELOW (in)
40	% STONE VOID
34,621	INSTALLED SYSTEM VOLUME (CF) (EXCLUDES STORAGE VOLUME FROM STONE BELOW BOTTOM OF CHAMBER)
11863	SYSTEM AREA (sq ft)
454	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS

66.75	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
59.50	12" TOP MANHOLE INVERT
57.10	24" ISOLATOR ROW PLUS CONNECTION INVERT
57.00	BOTTOM OF MC-3500 CHAMBER
57.00	UNDERDRAIN INVERT
56.25	BOTTOM OF STONE

NOTES

- MANHOLE SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANHOLE 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 MANHOLE 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 INSTALLED SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.

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TACOMA, WA
PROJECT # : 330968
DESIGNED: RWD

2 OF **6**

2) STORMTECH DETAIL 2 OF 6
SCALE: NTS

ACCEPTABLE FILL MATERIALS: STORMSEAL MC-3500 CHAMBER SYSTEMS			
MATERIAL LOCATION	DESCRIPTION	ASHTO 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 SOLIDBOD MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEERS' 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) UP 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 <3% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	ASHTO M14 ¹ A-1, A-2, A-3 OR ASHTO M3 ² 3, 3S7, 4, 4E7, 5, 5E, 5F, 6, 6E, 7, 7E, 8, 8E, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX. LIFT TO A MIN. 90% 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	ASHTO M3 ² 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	ASHTO M3 ² 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{3,4}

PLEASE NOTE:

- THE LISTED ASHTO 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 (ASHTO M3) STONE".
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR ALL LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 8" (200 mm) MAX LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
- WHERE INFILTRATION SURFACES ARE REQUIRED BY COMPACTOR, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL, LOAD DEMANDS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
- ONCE LAYER 'C' IS PLACED, ANY SOLI/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 ENGINEERS DISCRETION.

ADS GEOSYNTHETICS 8011 NON-WOVEN GEOTEXTILE ALL AROUND, CLEAN, CRUSHED, ANGULAR STONE IN A & B LAYERS

The diagram illustrates the cross-section of the stormwater collection system. It shows four distinct layers: Layer A (Foundation Stone), Layer B (Embedment Stone), Layer C (Initial Fill), and Layer D (Final Fill). The chamber itself is made of corrugated polypropylene (PP) and has a depth of 12 inches (300 mm). The top of the chamber is covered by a 6-inch (150 mm) thick end cap. The excavation wall surrounding the chamber is also 6 inches (150 mm) thick. The foundation stone (Layer A) is at least 12 inches (300 mm) deep. The embedment stone (Layer B) is at least 4 inches (100 mm) thick. The initial fill (Layer C) is at least 12 inches (300 mm) thick above the embedment stone. The final fill (Layer D) starts from the top of the initial fill and goes up to the finished grade. The diagram also shows the placement of geosynthetic materials (ADS 8011 Non-Woven Geotextile) around the chamber and between the layers. Dimensions are given in both inches and millimeters. Notes indicate that the stone used must be clean, crushed, angular, and meet specific ASHTO specifications. The diagram also shows the placement of the chamber relative to the excavation wall and the foundation stone.

PERIMETER STONE
(SEE NOTE 4)

EXCAVATION WALL
(CAN BE SLOPED OR VERTICAL)

MC-3500 END CAP

SUBGRADE SOILS
(SEE NOTE 3)

NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHANNELS"
- CHAMBER CLASSIFICATION BOTH DESIGNATION BS
- MC-3500 SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F287 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHANNELS".
- 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.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING ULS.
 - 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, IF THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.3 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LB/SQ.FT. AND IN THE RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 7° F/ 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

4) STORMTECH DETAIL 4 OF 6
SCALE:NTS

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



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

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 RIGHTS-OF-WAY 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 WILL HAVE 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. SUBSOLS 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 77.30: 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 ABOVE 20 TO 65%, AND THE 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 ANALYSIS 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 REQUIRED RATES.
- 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 WHEN ESTABLISHED, PROTECT FROM COMPACTION, SUCH AS FROM LARGE MACHINERY USE, 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. MONITOR AND ADJUST, WHEN POSSIBLE, THE USE OF IRRIGATION, FERTILIZERS, HERBICIDES AND PESTICIDES, RATHER THAN 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 _____

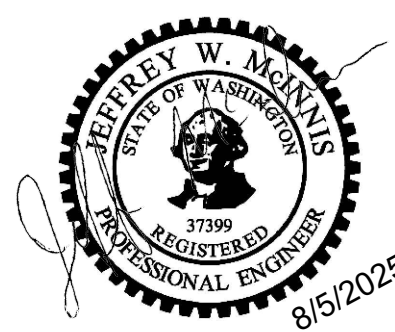
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2401 INTER NOTES AND DETAILS

2401 INTER AVE SE
PUYALLUP, WA 98372



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

DESIGNED	SCALE
W. MCINNIS	N.T.S.

DRAWN	CHECKED
W. MCINNIS	J. MCINNIS

DATE	APPROVED
8/5/2025	J. MCINNIS

JOB NO.

24-166

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

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