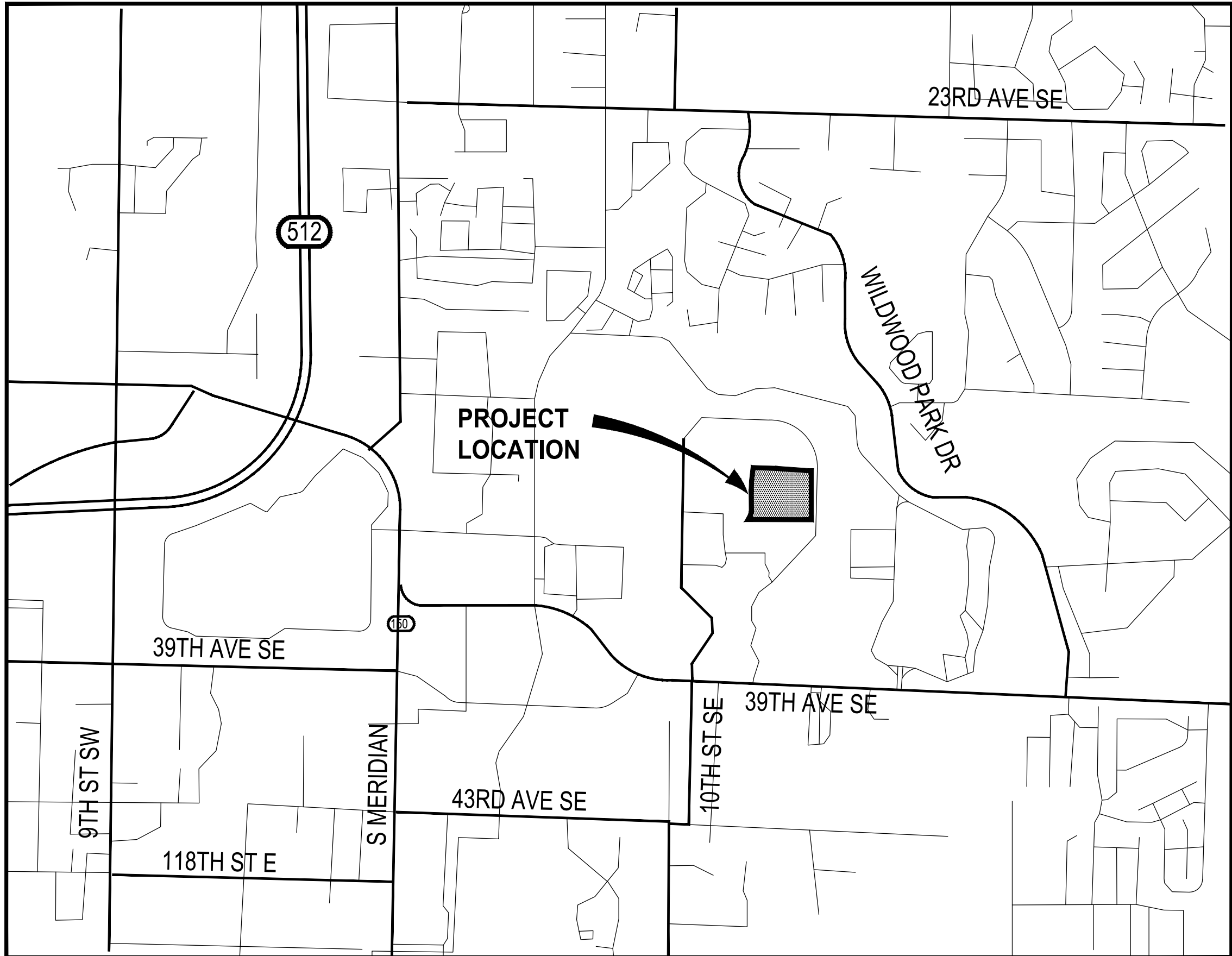


SOUTH HILL BUSINESS & TECHNOLOGY
CENTER PARKING EXPANSION

PUYALLUP, WASHINGTON
A PORTION OF THE NE 1/4, SE 1/4, NW 1/4 & SW 1/4 OF THE SE 1/4,
SEC. 3, T. 19 N., R. 4 E.W.M. PIERCE COUNTY, WASHINGTON



SITE INFORMATION:

APPLICANT: THE BENAROYA COMPANY
3600 136TH PLACE SE, SUITE 250
BELLEVUE, WA 98006
CONTACT: MARK JOHNSON

TAX PARCEL NUMBERS 0419034038, 0419034036

PROJECT ADDRESS: 1015, 1019-1021 39TH AVE SE
PUYALLUP, WA 98374

ZONING: BUSINESS PARK

PROJECT REPRESENTATIVE PARAMETRIX - PUYALLUP OFFICE
1019 39TH AVE SE, SUITE 100
PUYALLUP, WA 98374
T: 253.604.6600
PROJECT CONTACT: DARREN SANDENO

SERVICE PROVIDERS:

WATER: CITY OF PUYALLUP

SEWER: CITY OF PUYALLUP

POWER: PUGET SOUND ENERGY

FIRE PROTECTION: CENTRAL PIERCE FIRE & RESCUE

HORIZONTAL DATUM

NAD 83/96, WASHINGTON STATE PLANE COORDINATE SYSTEM SOUTH ZONE.
ARRIVED BY USING WASHINGTON STATE REFERENCE NETWORK (WSRN).

VERTICAL DATUM

NAVD 88 PER WSRN: (SEE TABLE BELOW FOR SITE BENCH MARKS)

PARAMETRIX CONTROL POINTS

POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1001	671192.08	1197842.54	483.86	SET MAG NAIL
1003	670883.39	1197896.60	488.16	SET PK NAIL
9001	670710.15	1197894.27	489.72	SET MAG NAIL
10000	670497.91	1197893.61	490.02	SET MAG NAIL
10540	670535.60	1197896.50	490.48	SET MAG NAIL
20002	671206.88	1198144.42	512.84	SET 60d NAIL
20004	670465.74	1198200.14	520.42	SET HUB & MAGNAIL
20006	670241.18	1197960.17	495.55	SET MAG NAIL

EARTH WORK QUANTITIES

CUT= 34,932.19 CU. YD.
FILL= 4,281.55 CU. YD.

NET= 30,650.64 CU. YD (CUT)

UTILITIES LOCATE NOTE

THE LOCATION OF EXISTING UTILITIES SHOWN HEREON IS BASED ON INFORMATION OBTAINED FROM THE FIELD AND FROM RECORDS. PARAMETRIX ASSUMES NO RESPONSIBILITY FOR EXACT LOCATION OF EXISTING UTILITIES SHOWN OR NOT SHOWN HEREON. CONTRACTOR SHALL VERIFY THE EXACT SIZE, DEPTH, AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CALL FOR UNDERGROUND LOCATE AT 811 PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE RELOCATION OF EXISTING UNDERGROUND UTILITIES DEPICTED OR NOT DEPICTED ON THESE PLANS.



Parametrix

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1019 39TH AVENUE SE, SUITE 100 | PUYALLUP, WA 98374
P 253.604.6600
WWW.PARAMETRIX.COM

PROJECT NAME

SOUTH HILL BUSINESS &
TECHNOLOGY CENTER
PARKING EXPANSION
PUYALLUP, WA

NOTE:
SYMBOLS NOT TO SCALE

100 % REVIEW SUBMITTAL

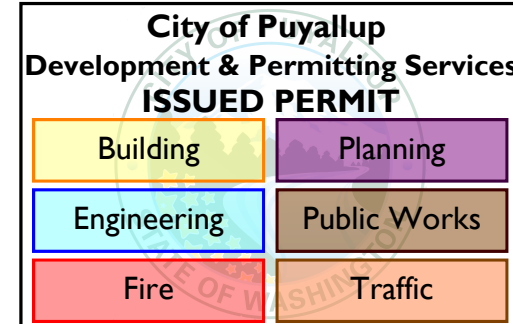
COVER SHEET

DRAWING NO.
01 OF 58

G-01



Know what's below.
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APPROVED

BY 
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 08/26/2022

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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01	G-01	COVER SHEET
02	G-02	LEGEND & ABBREVIATIONS
03	G-03	GENERAL NOTES
04	TS-01	TYPICAL ROADWAY SECTIONS
05	EX-01	EXISTING SITE PLAN
06	HC-00	HORIZONTAL CONTROL PLAN COMPOSITE
07	HC-01	HORIZONTAL CONTROL PLAN
08	HC-02	HORIZONTAL CONTROL PLAN
09	HC-03	HORIZONTAL CONTROL PLAN
10	HC-04	HORIZONTAL CONTROL PLAN
11	HC-05	HORIZONTAL CONTROL PLAN
12	DM-00	DEMOLITION, TESC, CLEARING & GRUBBING COMPOSITE PLAN
13	DM-01	DEMOLITION, TESC, CLEARING & GRUBBING PLAN
14	DM-02	DEMOLITION, TESC, CLEARING & GRUBBING PLAN
15	DM-03	DEMOLITION, TESC, CLEARING & GRUBBING PLAN
16	DM-04	DEMOLITION, TESC, CLEARING & GRUBBING PLAN
17	DM-05	DEMOLITION, TESC, CLEARING & GRUBBING PLAN
18	DM-06	DEMOLITION, TESC, CLEARING & GRUBBING DETAILS
19	SD-00	HARDSCAPE & STORM DRAINAGE PLAN COMPOSITE
20	SD-01	HARDSCAPE & STORM DRAINAGE PLAN
21	SD-02	HARDSCAPE & STORM DRAINAGE PLAN
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25	SD-06	HARDSCAPE STANDARD DETAILS
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52	LS-00	LANDSCAPE PLAN COMPOSITE
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58	LS-06	LANDSCAPE NOTES, DETAILS & PLANT SCHEDULE

LAYOUT: G-02 PATH: U:\P50\Projects\Clients\7312-Benova\217-7312-004-SHB&T\ParkingExpansion\995\es\CADD\DWG PLOTTED BY: patious DATE: Thursday, July 28, 2022 11:35:37 AM

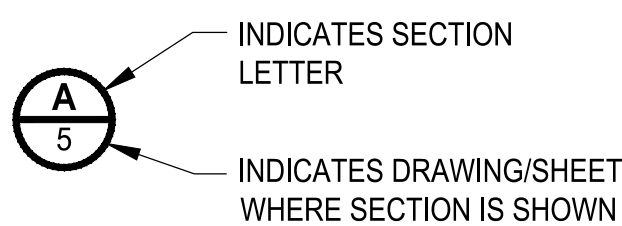
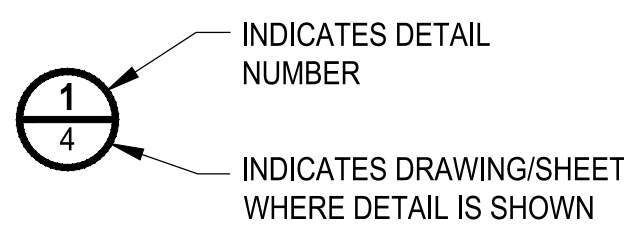
LEGEND - EXISTING

	BUILDING OUTLINE
	CATCH BASIN
	STORM MANHOLE
	GAS VALVE
	FIRE HYDRANT
	LUMINAIRE
	MAILBOX
	J-BOX
	POWER POLE ANCHOR
	POWER POLE
	POWER RISER
	POWER VAULT
	SANITARY CLEANOUT
	SANITARY SEWER MANHOLE
	SIGN
	SIGNAL LUMINAIRE
	SURVEY MONUMENT
	TELEPHONE MANHOLE
	TELEPHONE RISER
	WATER METER
	WATER VALVE
	ALIGNMENT RIGHT OF WAY LINE
	ASPHALT LINE
	DITCH CENTERLINE
	FENCE - WOOD
	EXISTING GRAVEL ROAD
	HIGH WATER MARK
	MINOR CONTOURS
	MAJOR CONTOURS
	SANITARY SEWER LINE
	STORM DRAIN LINE
	WATER BANK LINE
	WATER MAIN
	RIGHT-OF-WAY BOUNDARY
	PROPERTY BOUNDARY

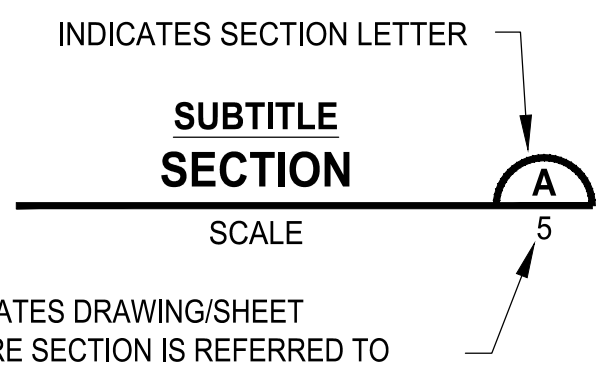
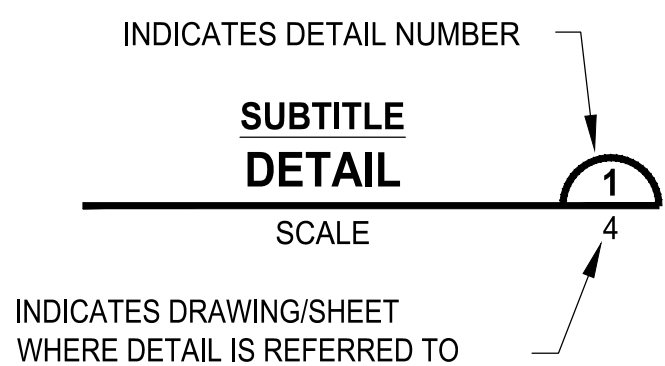
LEGEND - PROPOSED

	ALIGNMENT CENTERLINE
	WATER MAIN CAP
	WATER PIPE FITTING
	WATER VALVE
	WATER MAIN
	FIRE HYDRANT
	WATER SERVICE W/METER
	PRESSURE RELIEF VALVE

DETAIL AND SECTION DESIGNATION



15123 STANDARD DETAIL

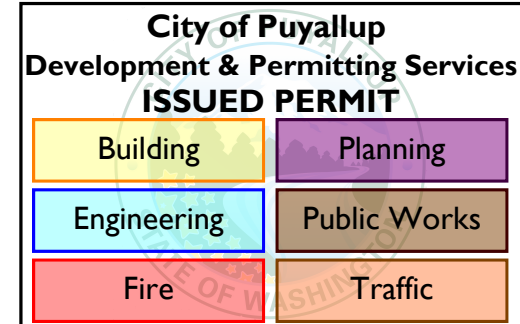


ABBREVIATIONS

ADDL	ADDITIONAL	LF	LINEAR FEET, LINEAR FOOT
ADJ	ADJUSTABLE	LG	LENGTH, LONG
AGG	AGGREGATE	LIN	LINEAR
ALLOW	ALLOWANCE, ALLOWABLE	LN	LANE
AMT	AMOUNT	LT	LEFT
ANG	ANGLE	LTG	LIGHTING
AP	ANGLE POINT	MAN	MANUAL
APPD	APPROVED	MATL	MATERIAL
APPROX	APPROXIMATE	MH	MANHOLE
APIWA	AMERICAN PUBLIC WORKS ASSOCIATION	MIN	MINIMUM, MINUTE
ARV	AIR RELEASE VALVE	MISC	MISCELLANEOUS
ASPH	ASPHALT	MON	MONUMENT
ASSY	ASSEMBLY	MPH	MILES PER HOUR
ATB	ASPHALT TREATED BASE	MTL	METAL
AVE	AVENUE	MW	MONITORING WELL
AVG	AVERAGE	N	NORTH, NORTHING
BC	BEGINNING OF CURVE, BOLT CIRCLE	NIC	NOT IN CONTRACT
BCR	BEGINNING OF CURVE CENTER	NO.	NUMBER
BF	BLIND FLANGE	NTS	NOT TO SCALE
BLDG	BUILDING	P	PUMP, POWER
BLVD	BOULEVARD	PC	POINT OF CURVATURE
BM	BEAM, BENCH MARK	PCC	PORTLAND CEMENT CONCRETE
BO	BLOW OFF	PCY	PRESSURE CONTROL VALVE
BOT	BOTTOM	PERF	PERFORATE, PERFORATED
BRG	BEARING	PH	PHASE
BVC	BEGIN VERTICAL CURVE	PI	POINT OF INTERSECTION, PRESSURE INDICATOR
CALC	CALCULATION	PIVC	POINT OF INTERSECTION FOR VERTICAL CURVE
CAP	CAPACITY	PP	POWER POLE
CB	CATCH BASIN	PRV	PRESSURE REGULATING VALVE, PRESSURE RELIEF VALVE,
CCP	CONCRETE CYLINDER PIPE		PRESSURE REDUCING VALVE
CCSP	CONCRETE LINED AND COATED STEEL PIPE		PRESSURE SWITCH
CEM	CEMENT	PSI	POUNDS PER SQUARE INCH
CHV	CHECK VALVE	PT	POINT OF TANGENCY, POINT
CI	CAST IRON	PV	PLUG VALVE
CIP	CAST IN PLACE, CAST IRON PIPE	PVI	POINT OF VERTICAL INTERSECTION
CLR	CLEAR, CLEARANCE	PVT	PAVEMENT, PAVING, PRIVATE
CND	CONDUIT	PWR	POWER
CO	COUNTY, CLEANOUT	QTY	QUANTITY
CONC	CONCRETE	QUAL	QUALITY
CONN	CONNECT, CONNECTION	R	RISER
CONST	CONSTRUCT, CONSTRUCTION	RAD	RADIUS
CONT	CONTINUE, CONTINUOUS	RCP	REINFORCED CONCRETE PIPE
CONTR	CONTRACTOR	RD	ROAD, ROOF DRAIN
COORD	COORDINATE	RED	REDUCER
CSBC	CRUSHED SURFACING BASE COURSE	REF	REFERENCE
CSTC	CRUSHED SURFACING TOP COURSE	REQD	REQUIRED
CTR	CENTER	RET	RETAINING, RETURN
CUFT	CUBIC FOOT, CUBIC FEET	REV	REVERSE, REVISE
CULV	CULVERT	ROT	ROTATE
CV	CONTROL VALVE	ROW	RIGHT OF WAY
CY	CUBIC YARD	RT	RIGHT
D	DEPTH, DENSITY, DRAIN, DRAINAGE	RV	RELIEF VALVE
DBL	DOUBLE	RW	RIGHT OF WAY
DEG	DEGREE	S	SOUTH
DEMO	DEMOLITION	SCH	SCHEDULE
DEPT	DEPARTMENT	SD	STORM DRAIN
DET	DETAIL	SDMH	STORM DRAIN MANHOLE
DI	DUCTILE IRON	SE	SPOT EVALUATION
DIA	DIAMETER	SECT	SECTION
DIM	DIMENSION	SEG	SEGMENT
DIP	DUCTILE IRON PIPE	SERV	SERVICE
DIST	DISTANCE, DISTRICT	SIG	SIGNAL
DSGN	DESIGN	SL	SLOPE, RAW SLUDGE
DWG	DRAWING	SPA	SPACE, SPACES
E	EAST, EASTING	SPEC	SPECIFICATION
EA	EACH	SPG	SPACING
EC	END OF CURVE	SQ	SQUARE
EL	ELEVATION	SQFT	SQUARE FOOT, SQUARE FEET
ELL	ELBOW	SQIN	SQUARE INCH, SQUARE INCHES
EOP	EDGE OF PAVEMENT	SQYD	SQUARE YARD, SQUARE YARDS
EQUIP	EQUIPMENT	SS	SANITARY SEWER
EVC	END VERTICAL CURVE	SSMH	SANITARY SEWER MANHOLE
EXIST	EXISTING	ST	STREET
EXL	EXCAVATE	STA	STATION
FCR	FINE CRUSHED ROCK	STD	STANDARD
FG	FINISH GRADE	SUR	SURFACE
FH	FIRE HYDRANT	SURV	SURVEY
FIN	FINISH, FINISHED	SYS	SYSTEM
FL	FLOW LINE	TAN	TANGENT
FLG	T FLANGE, FLANGED	TEL	TELEPHONE
FM	FORCE MAIN	TEMP	TEMPERATURE, TEMPORARY
G	GAS	THK	THICK, THICKNESS
GND	GROUND	THRU	THROUGH
GR	GRADE	TOB	TOP OF BANK
GV	GATE VALVE	TOC	TOP OF CONCRETE, TOP OF CURB
H	HIGH	TOT	TOTAL
HORIZ	HORIZONTAL	TOW	TOP OF WALL
HT	HEIGHT	TYP	TYPICAL
ID	INSIDE DIAMETER	UG	UNDERGROUND
IE	INVERT ELEVATION	UP	UTILITY POLE
IN	INCH	UPR	UPPER
INCL	INCLUDE, INCLUDING	V	VALVE, VENT, VOLT
INSTL	INSTALL, INSTALLATION	VAR	VARIABLE, VARIABLE
INT	INTERIOR, INTERSECTION	VERT	VERTICAL
INV	INVERT	VOL	VOLUME
JB	JUNCTION BOX	W	WATER, WATT, WEST, WIDTH
JCT	JUNCTION	WD	WIDE, WOOD
LAT	LATERAL, LATITUDE	WM	WATER METER
LB	POUND	WS	WATER SURFACE
LBL	LABEL	WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
		WT	WEIGHT
		XFMR	TRANSFORMER
		XSECT	CROSS-SECTION
		YD	YARD
		YR	YEAR



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APPROVED

BY:
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE: 08/26/2022

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.

NOTE:
SYMBOLS NOT TO SCALE

100 % REVIEW SUBMITTAL

REVISIONS	DATE	BY	DESIGNED WZG
			DRAWN RLP
			CHECKED DMS
			APPROVED DMS

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FILE NAME
01-PSO731200C-CV

JOB No.
217-7312-004

DATE
JULY 2022



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PROJECT NAME

SOUTH HILL BUSINESS &
TECHNOLOGY CENTER
PARKING EXPANSION
PUYALLUP, WA

LEGEND & ABBREVIATIONS

DRAWING NO.

02 OF 58

G-02

LAYOUT: G-03 P:\Rtr_U\PSO\Projects\Clients\7312-Benaraya\217-7312-004-SHB&TParkingExpansion\955ves\CAD\DWG PLOTTED BY: patiruse DATE: Thursday, July 26, 2022 11:33:40 AM

CITY OF PUYALLUP GENERAL NOTES

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

CITY OF PUYALLUP 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.
- 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.
- 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-30.20-04 (OLYMPIC FOUNDRY NO. SM60 OR EQUAL). VANED GRATES SHALL CONFORM TO WSDOT STANDARD PLAN B-30.30-03 (OLYMPIC FOUNDRY NO. SM60V OR EQUAL).
- STORMWATER PIPE SHALL BE ONLY PVC, CONCRETE, DUCTILE IRON, OR DUAL WALLED POLYPROPYLENE 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 1/4-INCH AND SMALLER AND F679 FOR PIPE SIZES 1/8 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 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.
- 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.
- ALL STORM DRAIN MAINS SHALL BE TESTED AND INSPECTED FOR ACCEPTANCE AS OUTLINED IN SECTION 406 OF THE CITY OF PUYALLUP SANITARY SEWER SYSTEM STANDARDS.
- 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.

CITY OF PUYALLUP WATER SYSTEM 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"), OR AS DIRECTED BY FRUITLAND MUTUAL WATER COMPANY (FMWC), VALLEY WATER (VW), OR TACOMA CITY WATER (TCW) IS THE PURVEYOR.
- 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, THE ENGINEERING SERVICES STAFF, AND THE FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR, PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- 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.
- BACTERIOLOGICAL (COLIFORM AND IRON BACTERIA) TEST SAMPLES WILL BE TAKEN BY THE CITY (OR FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR) AND PAID FOR BY THE CONTRACTOR, EXCEPT FOR CAPITAL IMPROVEMENT PROJECTS (CIP) WHICH SHALL BE PAID FOR BY THE CITY.
- WATER MAINS SHALL HAVE A MINIMUM COVER OF 36 INCHES FROM PAVED FINAL GRADE IN IMPROVED RIGHT-OF-WAY AND IMPROVED EASEMENTS, AND A MINIMUM OF 48 INCHES IN UNIMPROVED RIGHT-OF-WAY AND UNIMPROVED EASEMENTS.
- PIPE FOR WATER MAINS SHALL BE DUCTILE IRON CONFORMING TO SECTION 7-09 OF THE STANDARD SPECIFICATIONS, CLASS S2 WITH TYTON OR APPROVED EQUAL JOINTS. PIPE SHALL BE CEMENT LINED IN ACCORDANCE WITH A.S.A. SPECIFICATION A 21.4-1964.
- CONNECTIONS TO EXISTING WATER MAINS TYPICALLY SHALL BE WET TAPS THROUGH A TAPPING TEE AND TAPPING VALVE AND SHALL BE MADE BY A CITY APPROVED CONTRACTOR. THE TAPPING SLEEVE SHALL BE ROWAC SST ALL STAINLESS STEEL TAPPING SLEEVE OR APPROVED EQUAL, A TWO-Piece EPOXY COATED OR DUCTILE IRON TAPPING SLEEVE MAY BE USED ON DUCTILE IRON PIPE, WHEN THE TAP IS SMALLER THAN THE WATER MAIN SIZE I.E. 6-INCH TAP ON 8-INCH PIPE, THE CITY (OR FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR) SHALL APPROVE THE TIME AND LOCATION FOR THESE CONNECTIONS.
- ALL WATER MAINS AND APPURTENANCES SHALL BE HYDROSTATICALLY TESTED AT 200 PSI IN ACCORDANCE WITH STANDARD SPECIFICATION 7-09.3(23). PRESSURE TESTING SHALL NOT BE PERFORMED UNTIL SATISFACTORY PURITY SAMPLES HAVE BEEN RECEIVED, EXCEPT WHEN NEW WATER MAINS ARE INSTALLED INDEPENDENTLY FROM THE WATER SYSTEM PIPING.
- FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD DETAIL 03.05.01 AND AS DIRECTED BY THE CITY OF PUYALLUP FIRE CODE OFFICIAL.
- VALVE MARKER POSTS SHALL BE INSTALLED WHERE VALVE BOXES ARE HIDDEN FROM VIEW OR IN UNPAVED AREAS THE INSTALLATION SHALL BE IN ACCORDANCE WITH CITY STANDARD DETAIL 03.01.02.
- RESILIENT SEATED WEDGE GATE VALVES SHALL BE USED FOR 10-INCH MAINS AND SMALLER. BUTTERFLY VALVES SHALL BE USED FOR MAINS GREATER THAN 10 INCHES.
- PIPE FITTING FOR WATER MAINS SHALL BE DUCTILE IRON AND SHALL BE MECHANICAL JOINT CONFORMING TO AWWA SPECIFICATION C111-72.
- WATER MAIN PIPE AND SERVICE CONNECTIONS SHALL BE A MINIMUM OF 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.
- WHERE A WATER MAIN CROSSES THE NORTHWEST GAS PIPELINE, THE WATER LINE SHALL BE CASED WITH PVC PIPE A MINIMUM OF 10 FEET BEYOND EACH SIDE OF THE GAS LINE EASEMENT. CONTACT WILLIAMS NORTHWEST PIPELINE BEFORE THE CROSSING IS MADE.
- TRENCHING, BEDDING, AND BACKFILL FOR WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD DETAIL 06.01.01.
- ALL COMMERCIAL AND INDUSTRIAL DEVELOPMENTS, IRRIGATION SYSTEMS, AND MULTI-FAMILY WATER SERVICE CONNECTIONS SHALL BE PROTECTED BY A DOUBLE CHECK VALVE ASSEMBLY OR A REDUCED PRESSURE BACKFLOW ASSEMBLY AS DIRECTED BY THE CITY (OR FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR) CONFORMING TO CITY STANDARD DETAILS 03.04.01, 03.04.02, AND 03.04.03.
- ANY LEAD JOINT FITTING DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH A MECHANICAL JOINT FITTING AT THE CONTRACTOR'S EXPENSE.
- WHEN HYDRAULIC FIRE FLOW MODELING IS REQUIRED FOR A PROJECT, THE CITY WILL ISSUE A PERMIT. THE HYDRAULIC MODELING CRITERIA IS BASED ON THE PROJECTED 2030 WATER DEMAND, WHILE MAINTAINING A MINIMUM SYSTEM PRESSURE OF 20 POUNDS PER SQUARE INCH AND A MAXIMUM VELOCITY OF 10 FEET PER SECOND.
- WHEN USING A FIRE HYDRANT FOR NON-FIREFIGHTING PURPOSES, A CITY HYDRANT METER MUST BE USED. COORDINATE THE ACQUISITION OF THE HYDRANT METER WITH THE CITY'S UTILITY BILLING DIVISION AT PUYALLUP CITY HALL. A CITY APPROVED BACKFLOW PROTECTION ASSEMBLY SHALL BE INSTALLED BY THE PERSON REQUESTING USE OF A FIRE HYDRANT. THE ASSEMBLY SHALL BE ACCOMPANIED BY A CURRENT BACKFLOW ASSEMBLY TEST REPORT. THE TEST REPORT SHALL BE AVAILABLE AT THE SITE FOR THE DURATION OF THE HYDRANT USE.
- SHOULD A BREAK OCCUR ON ANY CITY WATER MAIN, THE CONTRACTOR SHALL FOLLOW THE CITY'S ADOPTED "WATER MAIN BREAK PROCEDURE" ISSUED TO THEM AT THE PRE-CONSTRUCTION MEETING AND NOTIFY THOSE CONNECTED TO THE SYSTEM IN THE IMPACTED AREA AS OUTLINED IN THE PROCEDURE.
- WATER MAIN REPAIRS (REFERENCES: AWWA C651-14 AND WSDOT STANDARD SPECIFICATION SECTION 7-09) (NOTE: A PLANNED WATER MAIN REPAIR SHALL BE APPROVED BY THE CITY INSPECTOR AND/OR WATER DIVISION SUPERVISOR PRIOR TO COMMENCING WORK).
 - REPAIR WITHOUT DEPRESSURIZATION - SMALL LEAKS SHALL BE REPAIRED USING REPAIR BANDS WHILE MAINTAINING POSITIVE PRESSURE IN THE WATER MAIN. VALVES SURROUNDING THE LEAK WILL BE PARTIALLY SHUT BY THE CITY WATER DEPARTMENT TO REDUCE THE FLOW AND PRESSURE TO THE AREA. BLOWOFFS AND HYDRANTS IN THE REDUCED PRESSURE AREA MAY BE OPENED AS NEEDED TO FURTHER REDUCE THE PRESSURE. THE WATER MAIN TRENCH SHALL BE OVER-EXCAVATED TO ALLOW WATER IN THE TRENCH TO BE PUMPED OUT AND MAINTAINED BELOW THE LEVEL OF THE WATER MAIN. THE REPAIR SHALL BE COMPLETED WITH THE WATER MAIN PRESSURE REMAINING POSITIVE. AFTER THE REPAIR IS MADE, THE SYSTEM SHALL BE FULLY PRESSURIZED AND A VISUAL LEAK INSPECTION WILL BE COMPLETED. THE WATER MAIN IN THE AFFECTED AREA SHALL BE FLUSHED TO ACHIEVE THREE PIPE VOLUMES PULLED FROM THE PIPE (DISTANCE MEASURED FROM VALVE OPENED FOR FLUSHING TO THE EXIT HYDRANT OR BLOWOFF).
 - REPAIR/CUT-IN WITH DEPRESSURIZATION - TRENCH SHALL BE OVER EXCAVATED AND DEWATERED BELOW THE WATER MAIN. FLUSH WATER FROM PIPE FROM EACH DIRECTION UNTIL IT RUNS CLEAR. IMMEDIATELY PRIOR TO INSTALLATION OF A NEW PIPE SECTION FOR REPAIR OR CUT IN TEE, ALL NEW FITTINGS AND PIPE SPOOLS SHALL BE SWABBED WITH A FIVE PERCENT (5%) CHLORINE SOLUTION (MINIMUM). THE INTERIOR OF THE EXISTING PIPE SHALL BE SWABBED WITH A FIVE PERCENT (5%) CHLORINE SOLUTION AT LEAST 6 FEET IN EACH DIRECTION FROM EXPOSED CUT ENDS. THE WATER MAIN IN THE AFFECTED AREA SHALL BE FLUSHED TO ACHIEVE THREE PIPE VOLUMES PULLED FROM THE PIPE (DISTANCE MEASURED FROM THE VALVE OPENED FOR FLUSHING TO THE EXIT HYDRANT OR BLOWOFF). CUSTOMERS SHALL BE NOTIFIED AFTER THE WATER MAIN IS FLUSHED AND REPAIRS HAVE BEEN COMPLETED, AS OUTLINED IN THE "WATER MAIN BREAK PROCEDURE."

- NEW WATER MAIN INSTALLATION:
 - EACH NEW WATER MAIN SECTION SHALL BE DELIVERED, STACKED AND STORED ONSITE WITH ENDS PLUGGED. THE PLUGS SHALL REMAIN IN THE PIPE UNTIL EACH PARTICULAR SECTION IS INSTALLED. NATIONAL SANITATION FOUNDATION (NSF) APPROVED SIXTY-FIVE PERCENT (65%) CALCIUM HYPOCHLORITE SHALL BE ADDED TO THE UPSTREAM END OF EACH PIPE SECTION, AND AT EACH HYDRANT TEE IN THE AMOUNT GIVEN IN THE TABLE BELOW (OR PER APPROVED MANUFACTURER SPECIFICATIONS). THE MINIMUM AMOUNT OF CALCIUM HYPOCHLORITE ADDED SHOULD BE SUFFICIENT TO ACHIEVE A 50 MG/L CONCENTRATION WITHIN THE IMPACTED AREA.

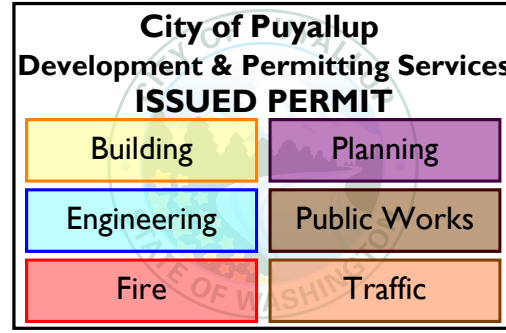
65% CALCIUM HYPOCHLORITE ADDITION PER PIPE SECTION

PIPE DIAMETER (INCHES)	PIPE VOLUME PER 18 FEET (GAL)	5-GRAM TABLETS PER PIPE SECTION	HYPOCHLORITE GRANULES OUNCES PER 500 FEET	TEASPOONS PER 18 FEET	MAXIMUM FILL RATE (GPM)
4	35	1	1.7	0.2	40
6	53	1	3.8	0.4	90
8	70	2	6.7	0.7	150
12	106	6	15.1	1.4	350
16	141	6	27	2.5	600

- NEW WATER MAINS SHALL BE FILLED USING AN APPROVED BACKFLOW PREVENTION ASSEMBLY. THE WATER MAIN SHALL BE FILLED FROM THE LOWER ELEVATION END SO THAT AS THE WATER MAIN IS FILLED, THE CHORINE IS CONTACTED, DISSOLVED AND SPREAD RELATIVELY UNIFORM THROUGH THE LENGTH OF THE NEW WATER MAIN. THE FILL RATE SHALL BE MINIMIZED SO THAT THE VELOCITY OF THE WATER IS LESS THAN 1 FT/SEC (SEE TABLE ABOVE). SUCCESSFUL PRESSURE TEST AND BACTERIOLOGICAL TESTS SHALL BE COMPLETED AND PROVIDED TO THE CITY PRIOR TO ANY NEW WATER MAIN CONNECTION TO THE EXISTING WATER SYSTEM.
- THE CHLORINATED WATER WILL BE ALLOWED TO REMAIN IN CONTACT WITH THE NEW WATER MAIN SYSTEM FOR 24 TO 72 HOURS. AFTER 24 HOURS, WATER MAY BE ADDED TO THE WATER MAIN FOR THE PURPOSES OF PRESSURE TESTING. THE WATER IN THE MAIN USED FOR PRESSURE TESTING MUST REMAIN IN THE WATER MAIN UNTIL PRESSURE TEST IS COMPLETED. IF NECESSARY, LIQUID CHLORINE SHALL BE INJECTED INTO THE WATER MAIN WITH FILL WATER TO MAINTAIN A CONCENTRATION IN THE WATER MAIN ABOVE 50 MG/L UNDER NO CIRCUMSTANCE SHALL "SUPER" CHLORINATED WATER BE ALLOWED TO SIT WITHIN A NEW WATER MAIN FOR MORE THAN 5 DAYS.
- PRESSURE TESTING INCLUDES TESTING AGAINST NEW VALVES AND HYDRANTS. EACH VALVE SHALL BE TESTED BY CLOSING EACH IN TURN AND REDUCING THE PRESSURE BEYOND THE VALVE. THE PRESSURE ON THE BACK SIDE OF THE VALVE SHOULD NOT BE ELIMINATED. CARE MUST BE TAKEN THAT, DURING THIS PROCESS, POSITIVE PRESSURE REMAINS THROUGHOUT THE SYSTEM BEING TESTED AT ALL TIMES. ALL HYDRANT FOOT VALVES SHALL BE OPEN DURING PRESSURE TESTING SO THAT THE PRESSURE TEST IS AGAINST THE HYDRANT VALVE. PRESSURE TESTING WILL NOT BE ALLOWED AGAINST ANY EXISTING VALVES.
- AFTER SUCCESSFUL PRESSURE TESTING, THE WATER MAIN SHALL BE THOROUGHLY FLUSHED TO REMOVE ALL "SUPER" CHLORINATED WATER FROM THE NEW WATER MAIN. FLUSHING OF NEW OR EXTENDED WATER MAINS SHALL BE CONDUCTED PER WSDOT SPECIFICATION 7-09.3(24) WITH A MINIMUM VELOCITY DEVELOPED WITHIN THE PIPE WHILE FLUSHING OF 2.5 FEET PER SECOND (FPS). ALL FLUSHED WATER SHALL BE DECHLORINATED PRIOR TO DISPOSAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL CHLORINATED WATER FLUSHED FROM MAINS. THE CITY SHALL APPROVE THE DISPOSAL METHOD PRIOR TO IMPLEMENTATION IN THE FIELD. THE CONTRACTOR SHALL UTILIZE ONSITE DISPOSAL METHODS, IF AVAILABLE. DISPOSAL OF FLUSH WATER TO THE SANITARY SEWER SYSTEM SHALL NOT BE ALLOWED WITHOUT WRITTEN PERMISSION FROM THE WATER POLLUTION CONTROL PLANT (WPCP) SUPERVISOR. ANY PLANNED DISCHARGE TO A STORMWATER SYSTEM SHALL BE DECHLORINATED TO A CONCENTRATION OF 0.1 PPM OR LESS, PH ADJUSTED (IF NECESSARY) TO BE BETWEEN 6.5 AND 8.5, AND VOLUMETRICALLY AND VELOCITY CONTROLLED TO PREVENT ANY RESUSPENSION OF SEDIMENTS. THE CITY WILL REQUIRE INDEPENDENT TESTING THROUGHOUT THE WATER DISCHARGE PROCESS TO ENSURE COMPLIANCE OF THESE STANDARDS ARE MET.
- SAMPLES FOR BACTERIOLOGICAL ANALYSIS SHALL BE COLLECTED AFTER FLUSHING AND AGAIN 24 HOURS AFTER THE FIRST SET OF SAMPLES.
- ALL CLOSURE/FINAL CONNECTION FITTINGS SHALL BE SPRAYED CLEAN AND THEN SWABBED WITH A FIVE PERCENT (5%) CHLORINE SOLUTION IMMEDIATELY PRIOR TO INSTALLATION PER AWWA STANDARD C651. ADDITIONAL SAMPLES FOR BACTERIOLOGICAL ANALYSIS SHALL BE COLLECTED FROM THE IMMEDIATE VICINITY OF THE NEW OR REPLACED WATER MAIN AND ANALYZED AFTER THE FINAL CONNECTIONS ARE MADE. IF NECESSARY, ADDITIONAL FLUSHING SHALL BE CONDUCTED AND ADDITIONAL SAMPLES SHALL BE COLLECTED UNTIL SATISFACTORY RESULTS ARE OBTAINED.



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APPROVED

BY:
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE: 08/26/2022

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.

CITY OF PUYALLUP GRADING, EROSION AND SEDIMENTATION CONTROL 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 CITY ENGINEER 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 HOURS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- NO TEMPORARY OR PERMANENT STOCKPIILING OF MATERIALS OR EQUIPMENT SHALL OCCUR WITHIN CRITICAL AREAS OR ASSOCIATED BUFFERS, OR THE CRITICAL ROOT ZONE FOR VEGETATION PROPOSED FOR RETENTION.

NOTE:
SYMBOLS NOT TO SCALE

100 % REVIEW SUBMITTAL



REVISIONS

DATE

BY

DESIGNED
WZG

DRAWN
RLP

CHECKED
DMS

APPROVED
DMS

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

FILE NAME
01-PSO731200C-CV

JOB No.
217-7312-004

DATE
JULY 2022



Parametrix

ENGINEERING • PLANNING • ENVIRONMENTAL SCIENCES

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P 253.604.6600

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PROJECT NAME

SOUTH HILL BUSINESS &
TECHNOLOGY CENTER
PARKING EXPANSION

PUYALLUP, WA

DRAWING NO.

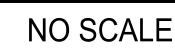
03 OF 58

G-03



City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

NO SCALE



1. WALLS OVER 48-INCHES FROM BOTTOM OF FOOTING TO TOP OF WALL REQUIRE SEPARATE BUILDING PERMIT.



▷	REVISIONS	DATE	BY	DESIGNED WZG
				DRAWN RLP
				CHECKED DMS
				APPROVED DMS

FILE NAME	01-PS0731200C-CV
JOB No.	217-7312-004
DATE	JULY 2022



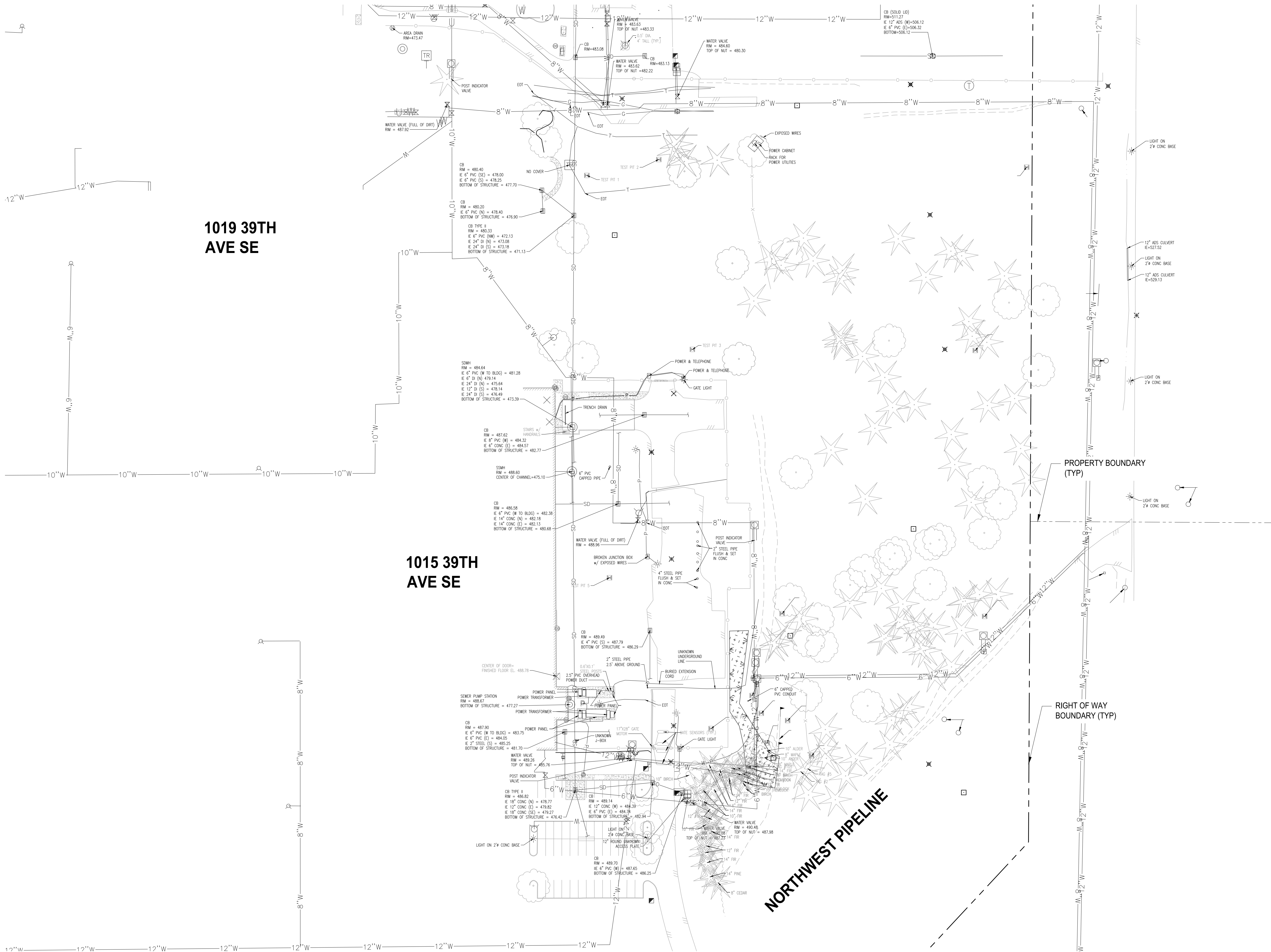
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**SOUTH HILL BUSINESS &
TECHNOLOGY CENTER
PARKING EXPANSION**
PUYALLUP, WA

TYPICAL SECTIONS

TS-01

LAYOUT: EX-01
PATH: u:\P50\Projects\Clients\312-Benaroya\217-7312-004-SHB&TParkingExpansion\995-cv\cadd\dwg PLOTTED BY: petrus DATE: Thursday, July 28, 2022 11:33:50 AM



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City of Puyallup Development & Permitting Services ISSUED PERMIT			
Building	Planning	Public Works	
Engineering			Traffic
Fire			

APPROVED
BY:
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE: 08/26/2022
NOTE: THIS APPROVAL IS VOID
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DEVELOPMENT ENGINEERING
MANAGER.

NOTE:
SYMBOLS NOT TO SCALE

100 % REVIEW SUBMITTAL

REVISIONS	DATE	BY	DESIGNED WZG
			DRAWN RLP
			CHECKED DMS
			APPROVED DMS

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY
FILE NAME
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DATE
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PROJECT NAME
**SOUTH HILL BUSINESS &
TECHNOLOGY CENTER
PARKING EXPANSION**
PUYALLUP, WA

EXISTING SITE PLAN

DRAWING NO.
05 OF 58
EX-01



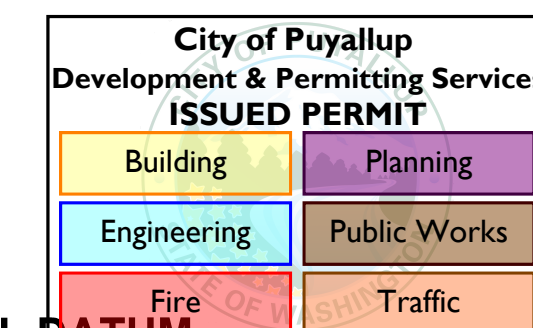
SCALE IN FEET



50 100



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HORIZONTAL DATUM

NAD 83/96, WASHINGTON STATE PLANE COORDINATE SYSTEM SOUTH ZONE.
ARRIVED BY USING WASHINGTON STATE REFERENCE NETWORK (WSRN).

VERTICAL DATUM

NAVD 88 PER WSRN: (SEE TABLE BELOW FOR SITE BENCH MARKS)

PARAMETRIX CONTROL POINTS

POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1001	671192.08	197842.54	483.86	SET MAG NAIL
1003	670883.39	197896.60	488.16	SET PK NAIL
9001	670710.15	197894.27	489.72	SET MAG NAIL
10000	670497.91	197893.61	490.02	SET MAG NAIL
10540	670535.60	197896.50	490.48	SET MAG NAIL
20002	671206.88	198144.42	512.84	SET 60d NAIL
20003	670904.74	198200.14	520.42	SET 6d B & MAGNAIL
10006	670243.78	197891.17	490.12	SET MAG NAIL

NOTE:
SYMBOLS NOT TO SCALE

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HORIZONTAL CONTROL PLAN COMPOSITE

DRAWING NO.
06 OF 58

HC-00

▽	REVISIONS	DATE	BY	DESIGNED WZG
				DRAWN RLP
				CHECKED DMS
				APPROVED DMS

ONE INCH AT FULL SCALE.
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FILE NAME	02-PS0731200C-HC
JOB No.	217-7312-004
DATE	11/11/2022



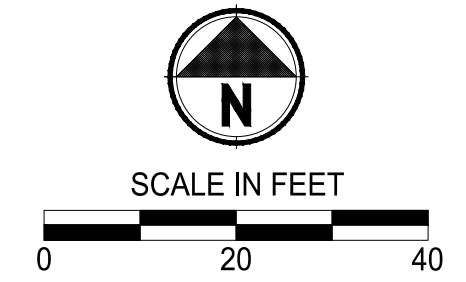
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PROJECT NAME

**SOUTH HILL BUSINESS &
TECHNOLOGY CENTER
PARKING EXPANSION**
PUYALLUP, WA



MATCHLINE SEE SHEET HC-03

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FILE NAME	02-PS0731200C-HC
JOB No.	217-7312-004
DATE	JULY 2022



NOTE:
SYMBOLS NOT TO SCALE

HORIZONTAL CONTROL PLAN

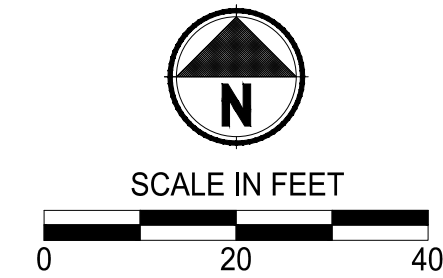
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MATCHLINE SEE SHEET HC-01

MATCHLINE SEE SHEET HC-01

MATCHLINE SEE SHEET HC-04

MATCHLINE SEE SHEET HC-04



City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

APPROVED

BY: *[Signature]*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE: 08/26/2022

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.

ALIGNMENT A
26' FIRE ACCESS ROUTE

ALIGNMENT K

ALIGNMENT L

ALIGNMENT M

ALIGNMENT E

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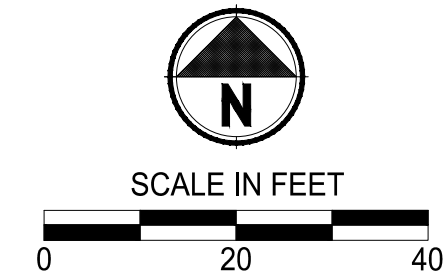
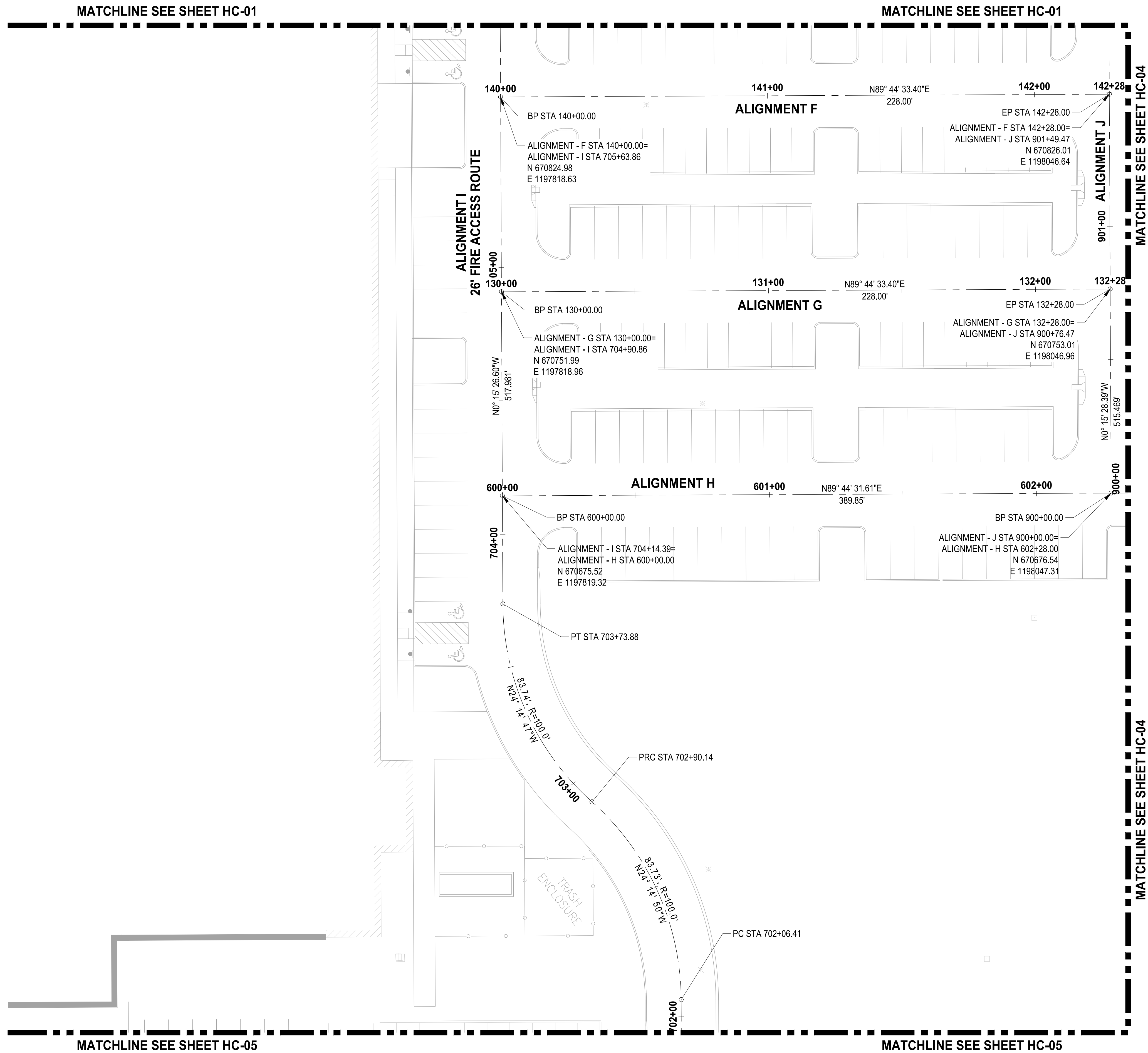
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PLOTTED BY: patitrus DATE: Thursday, July 28, 2022 11:34:47 AM



City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

APPROVED

BY: *[Signature]*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE: 08/26/2022

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NOTE:
SYMBOLS NOT TO SCALE

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REVISIONS	DATE	BY	DESIGNED WZG
			DRAWN RLP
			CHECKED DMS
			APPROVED DMS

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FILE NAME
02-PSO731200C-HC

JOB No.
217-7312-004

DATE
JULY 2022



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PROJECT NAME

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PARKING EXPANSION**

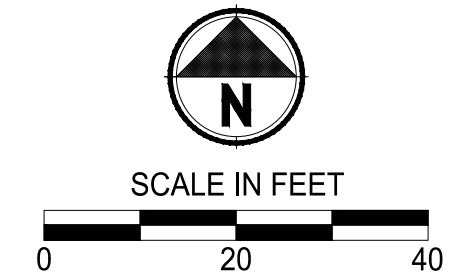
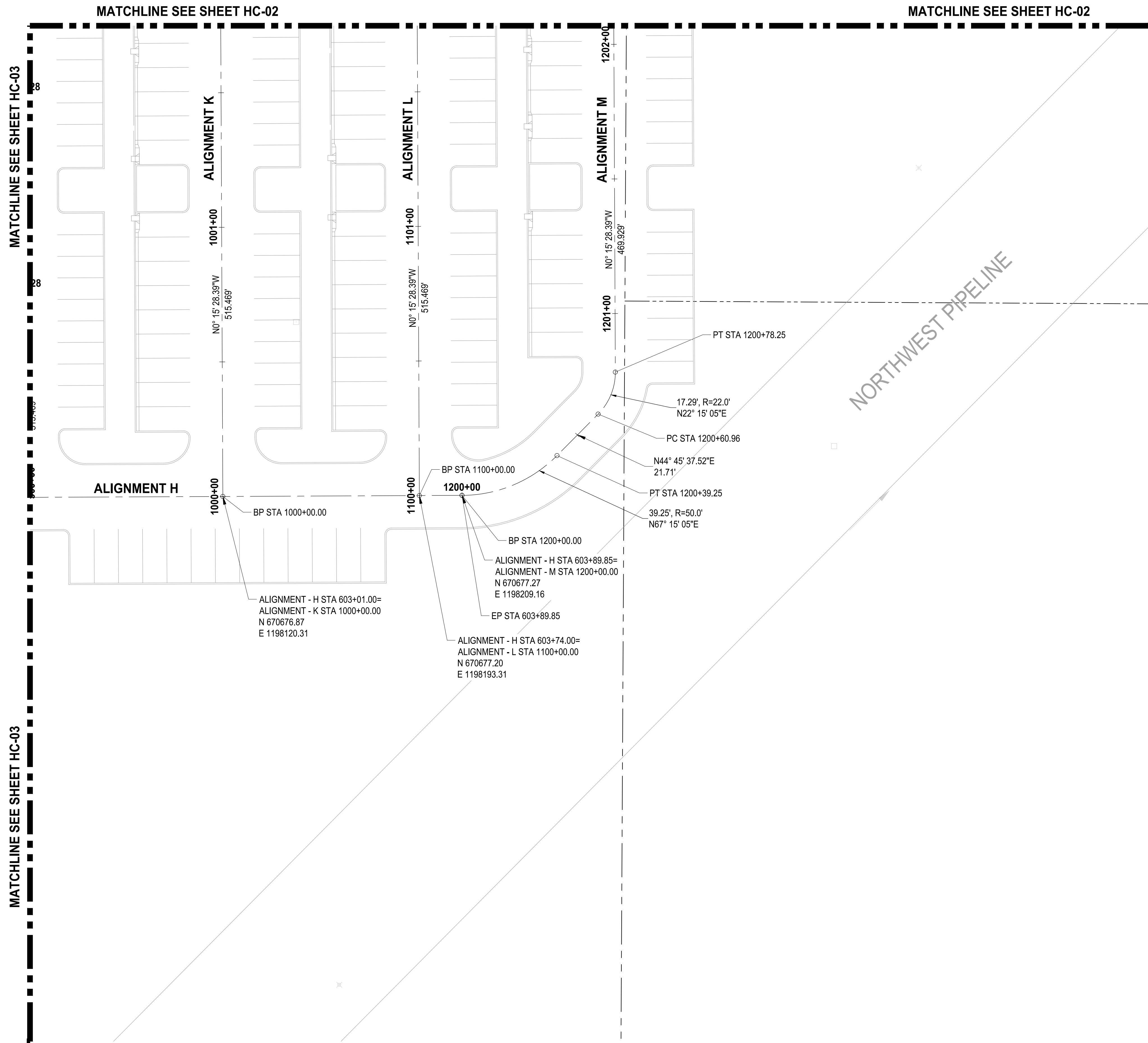
PUYALLUP, WA

HORIZONTAL CONTROL PLAN

DRAWING NO.
09 OF 58

HC-03

LAYOUT: HC-04 PATH: U:\PDS\Projects\Clients\217-7312-004-SHB&TParkingExpansion\995\cadd\DWG PLOTTED BY: petlitrus DATE: Thursday, July 28, 2022 11:34:51 AM



811
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Fire	Traffic

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CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

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REVISIONS	DATE	BY	DESIGNED WZG
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			APPROVED DMS

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FILE NAME
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PARKING EXPANSION**
PUYALLUP, WA

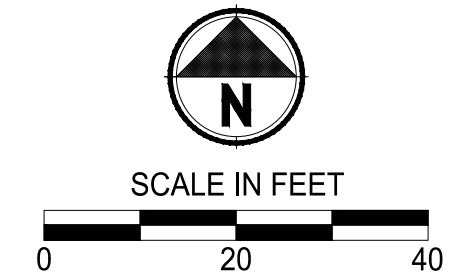
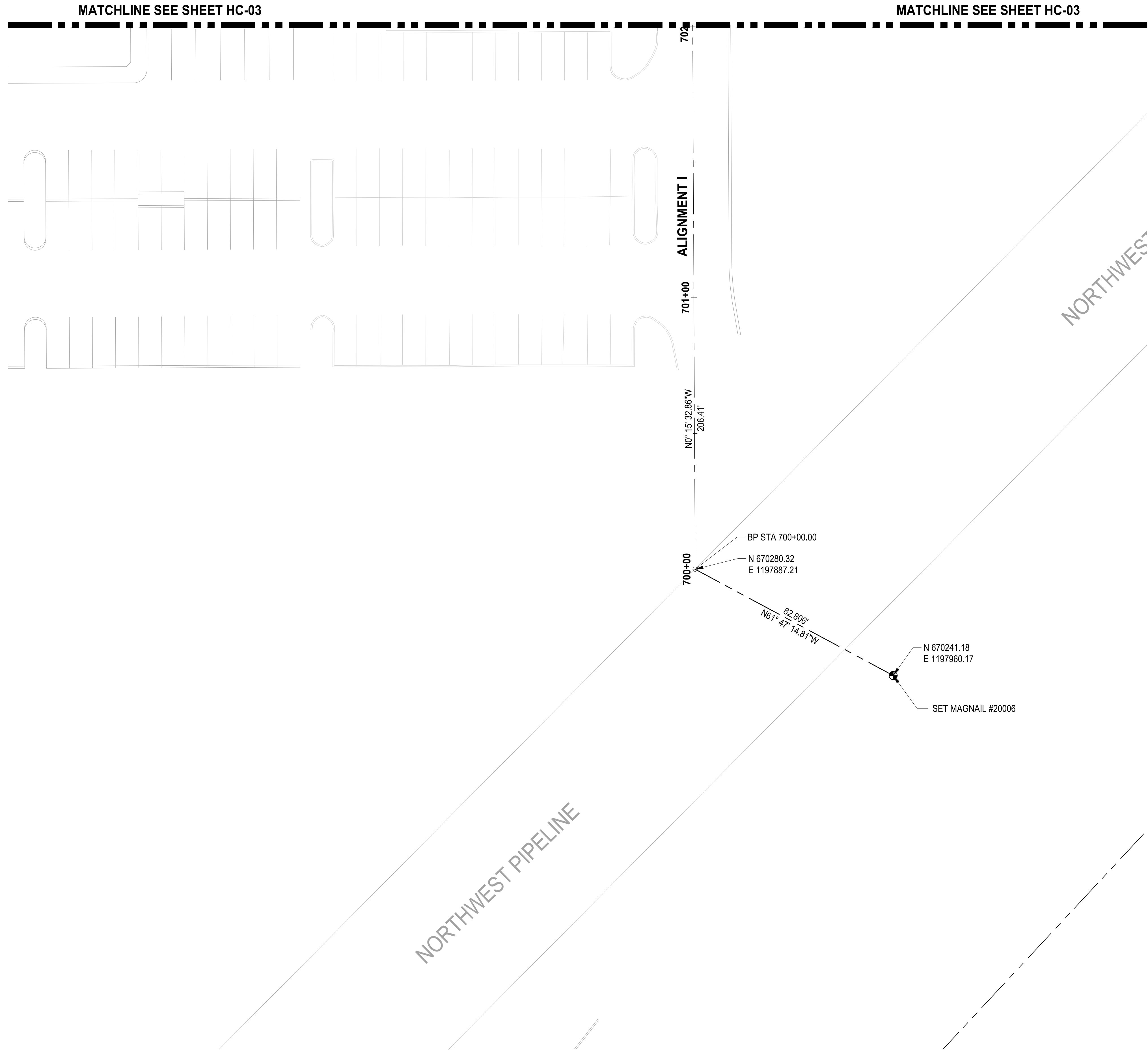
HORIZONTAL CONTROL PLAN


DRAWING NO.
10 OF 58
HC-04

NOTE:
SYMBOLS NOT TO SCALE

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LAYOUT: HC-05
PATH: U:\PDS\Projects\Clients\217-7312-004_SHB&TParkingExpansion\995ves\CADD\DWG
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City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

APPROVED

BY: 
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE: 08/26/2022

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FILE NAME
02-PSO731200C-HC

JOB No.
217-7312-004

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**SOUTH HILL BUSINESS & TECHNOLOGY CENTER
PARKING EXPANSION**

PUYALLUP, WA

NOTE:
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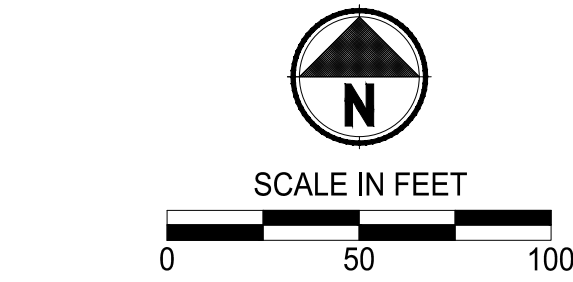
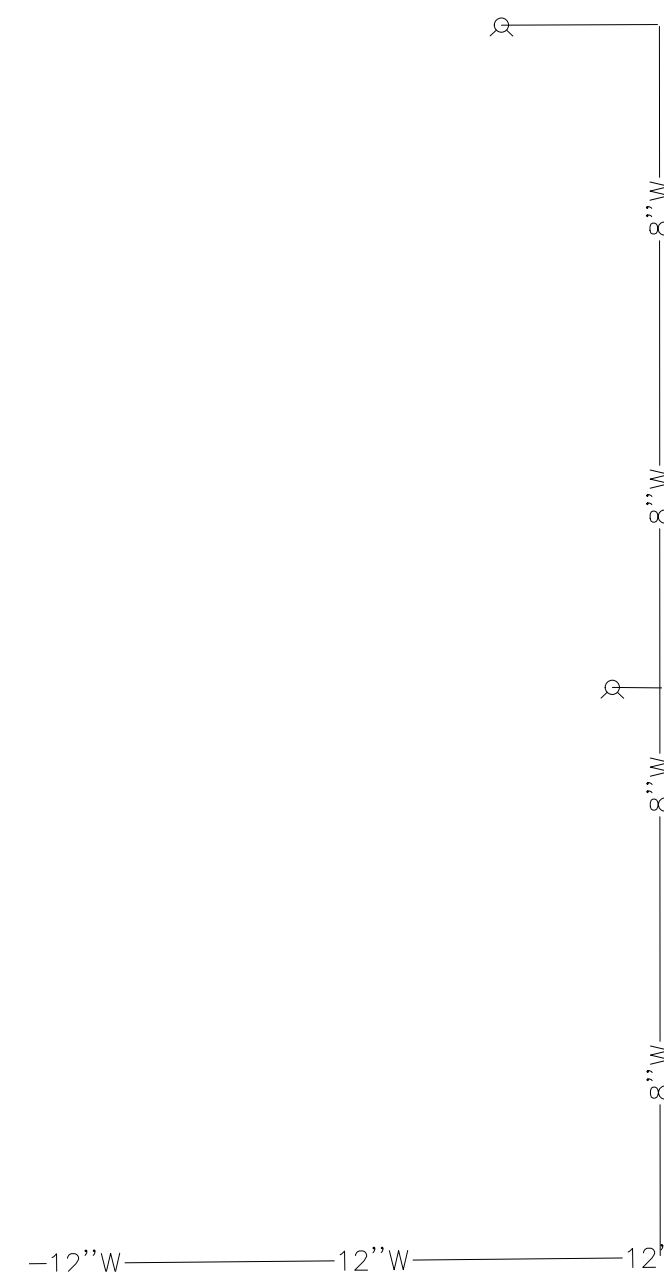
HORIZONTAL CONTROL PLAN

DRAWING NO.
11 OF 58

HC-05

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 CONTROL INSPECTION WITH THE CITY.
7. CONSTRUCT STORM DRAINAGE RETENTION/DETENTION (CONTROL AND STORAGE) FACILITIES. PROVIDE EMERGENCY OVERFLOW AS APPLICABLE.
8. ALL DITCHES AND SWALES AS SHOWN SHALL BE PROVIDED TO DIRECT ALL SURFACE WATER TO THE RETENTION/DETENTION AND SEDIMENTATION POND AS CLEARING AND GRADING PROGRESSES. NO UNCONTROLLED SURFACE WATER SHALL BE ALLOWED TO LEAVE THE SITE OR BE DISCHARGED TO A CRITICAL AREA AT ANY TIME DURING THE GRADING OPERATIONS.
9. CLEARING AND GRADING WILL NOT TAKE PLACE UNTIL AFTER EROSION CONTROL INSPECTION



Know what's below.
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LEGEND:

- HIGH VISIBILITY FENCE
 - SILTATION FENCE
 - SAWCUT LINE
 - DEMOLITION AND REMOVAL
 - TEMPORARY INTERCEPTOR SWALE
 - STORM DRAIN/INLET BARRIER PROTECTION
 - EXISTING STORMWATER FLOW
 - EXISTING GRAVEL AREA
 - CLEARING AND GRUBBING AREA
 - REMOVE EXISTING ASPHALT/CONCRETE
 - TEMPORARY SEDIMENT POND
- City of Puyallup Development & Permitting Services**
- FENCE ISSUED PERMIT**
- Building
 - Planning
 - Engineering
 - Public Works
 - Fire
 - Traffic

GENERAL NOTES:

1. ALL DISTURBED AREAS TO BE STABILIZED TO PRE-CONSTRUCTION CONDITION OR BETTER.
2. EXISTING PAVEMENT TO BE REMOVED AND MAY BE PULVERIZED AND USED AS BASE MATERIAL IF APPROVED BY GEOTECH AND CITY INSPECTOR.
3. CONTRACTOR TO POTHOLE ALL UTILITY LOCATIONS BEFORE PROPOSED CONNECTIONS ARE MADE.
4. EXISTING BUILDINGS TO BE PROTECTED AT ALL POINTS OF CONSTRUCTION.
5. BIORETENTION AREAS ARE TO BE PROTECTED FROM CONSTRUCTION SEDIMENT ENTERING AND COLLECTING DEBRIS FOLLOWING INITIAL GRADING.
6. HEAVY MACHINERY AND EXCAVATION IS TO BE LIMITED NEAR BIORETENTION AREAS TO PREVENT SOIL COMPACTION. HIGH VISIBILITY FENCING OR BUFFER ZONES MAY BE NECESSARY TO MARK CONSTRUCTION LIMITS.
7. 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.
8. CONTRACTOR SHALL DESIGNATE A WASHINGTON DEPARTMENT OF ECOLOGY CERTIFIED EROSION AND SEDIMENT CONTROL LEADPERSON, AND SHALL COMPLY WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THIS PROJECT.
9. SEDEIMENT- LADEN RUNOFF SHALL NOT BE ALLOWED TO DISCHARGE BEYOND THE CONSTRUCTION LIMITS IN ACCORDANCE WITH THE PROJECT'S NPDES GENERAL STORMWATER PERMIT.
10. ANY PERMANENT INFILTRATION SYSTEM SHALL NOT BE UTILIZED FOR TESC RUNOFF.

CONSTRUCTION NOTES:

1. MAINTAIN AND PROTECT EXISTING UTILITIES.
2. PRESERVE AND PROTECT EXISTING ASPHALT ROAD.
3. PRESERVE AND PROTECT EXISTING VEGETATION. SEE SHT TS-01 FOR DETAIL.
4. ADJUST EXISTING UTILITY TO FINISHED GRADE.
5. REMOVE SITE FEATURE.
6. INSTALL TEMPORARY CONSTRUCTION ENTRANCE SEE CITY OF PUYALLUP STANDARD NO. 05.01.01 ON SHEET DM-06.
7. INSTALL SILTATION FENCE SEE CITY OF PUYALLUP STANDARD NO. 02.03.02 ON SHEET DM-06.
8. EXISTING DRY UTILITY TO BE REMOVED AND REPLACED BY OTHERS.
9. INSTALL BARRIER WITH GRAVEL OUTLET SEE CITY OF PUYALLUP STANDARD NO. 02.03.04 ON SHEET DM-06.
10. INSTALL STORM DRAIN BARRIERS SEE CITY OF PUYALLUP STANDARD NO. 02.03.05 ON SHEET DM-06.

NOTE:
SYMBOLS NOT TO SCALE

100 % REVIEW SUBMITTAL

PATH: U:\P50\Projects\Clients\7312-Benaroya\217-7312-004-SHB&TParkingExpansion\995vca\CADD\DWG PLOTTED BY: pettitus DATE: Thursday, July 28, 2022 11:35:29 AM LAYOUT: DM-00

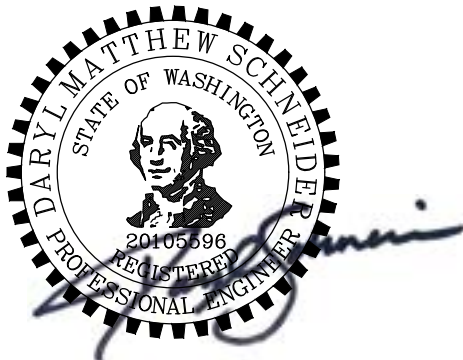
REVISIONS	DATE	BY	DESIGNED WZG
			DRAWN RLP
			CHECKED DMS
			APPROVED DMS

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FILE NAME
03-P50731200C-DM

JOB No.
217-7312-004

DATE
JULY 2022



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PROJECT NAME

**SOUTH HILL BUSINESS &
TECHNOLOGY CENTER
PARKING EXPANSION**
PUYALLUP, WA

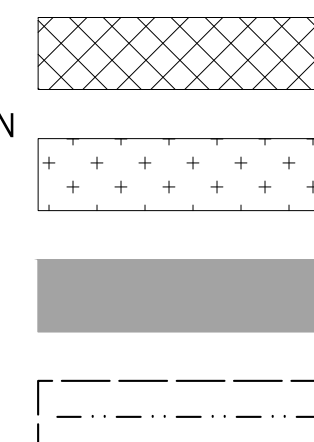
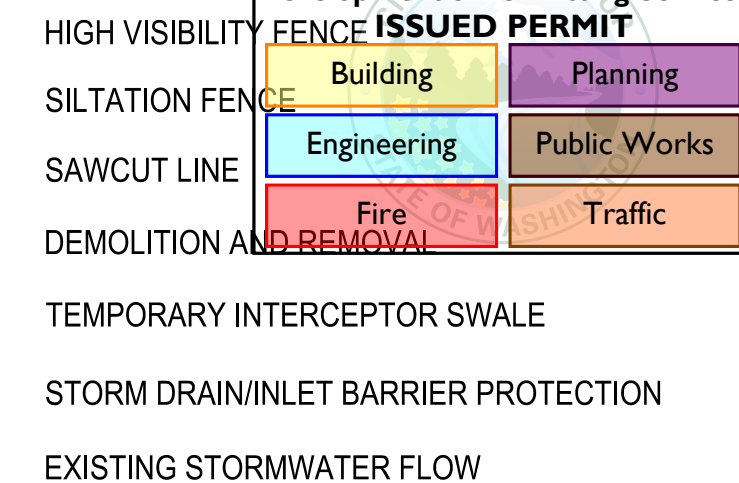
**DEMOLITION, TESC, CLEARING
& GRUBBING COMPOSITE PLAN**

DRAWING NO.
12 OF 58

DM-00



LEGEND:



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- 4 ADJUST EXISTING UTILITY TO FINISHED GRADE.
- 5 REMOVE SITE FEATURE.
- 6 INSTALL TEMPORARY CONSTRUCTION ENTRANCE SEE CITY OF PUYALLUP STANDARD NO. 05.01.01 ON SHEET DM-06.
- 7 INSTALL SILTATION FENCE SEE CITY OF PUYALLUP STANDARD NO. 02.03.02 ON SHEET DM-06.
- 8 EXISTING DRY UTILITY TO BE REMOVED AND REPLACED BY OTHERS.
- 9 INSTALL BARRIER WITH GRAVEL OUTLET SEE CITY OF PUYALLUP STANDARD NO. 02.03.04 ON SHEET DM-06.
- 10 INSTALL STORM DRAIN BARRIERS SEE CITY OF PUYALLUP STANDARD NO. 02.03.05 ON SHEET DM-06.

100% REVIEW SUBMITTAL

▽	REVISIONS	DATE	BY	DESIGNED WZG
				DRAWN RLP
				CHECKED DMS
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IF NOT, SCALE ACCORDINGLY.

FILE NAME
03-PS0731200C-DM
JOB No.
217-7312-004
DATE
JULY 2022



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PROJECT NAME

**SOUTH HILL BUSINESS &
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PARKING EXPANSION**

PUYALLUP, WA

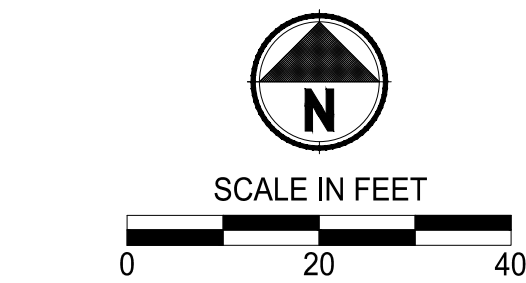
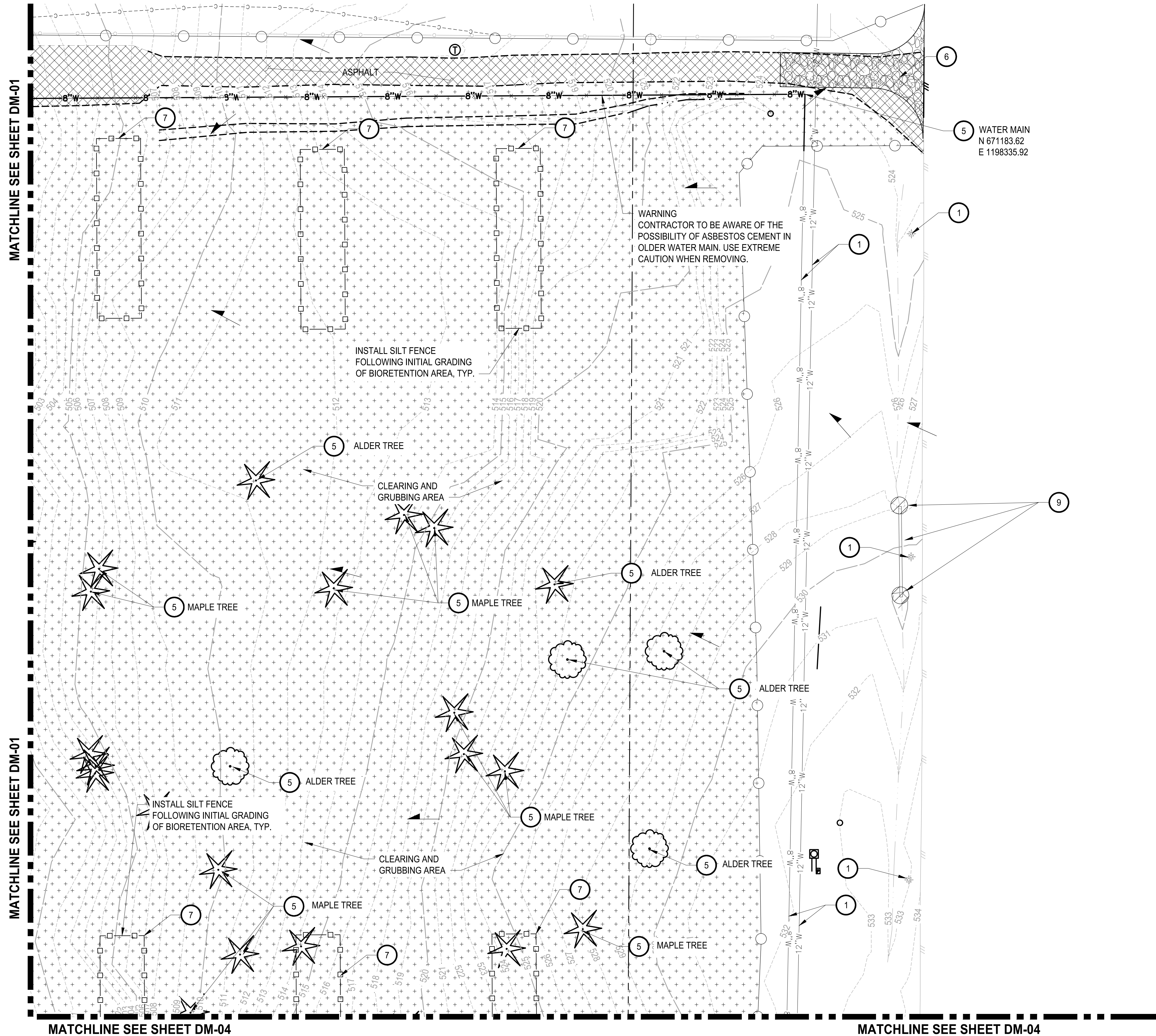
DEMOLITION, TESC, CLEARING & GRUBBING PLAN

DRAWING NO.
13 OF 58

DM-01

AYOUT: DM-01
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PLOTTED BY: pettirus DATE: Thursday, July 28, 2022 11:35:33 AM

LAYOUT: DM-02
PATH: U:\P50\Projects\Clients\7312-Benaroya\7312-7312-004-SHB&TParkingExpansion\995vca\CADD\DWG
PLOTTED BY: pettitus DATE: Thursday, July 28, 2022 11:35:38 AM



LEGEND:

- HIGH VISIBILITY FENCE
- SILTATION FENCE
- SAWCUT LINE
- DEMOLITION AND REMOVAL
- TEMPORARY INTERCEPTOR SWALE
- STORM DRAIN/INLET BARRIER PROTECTION
- EXISTING STORMWATER FLOW
- EXISTING GRAVEL AREA
- CLEARING AND GRUBBING AREA
- REMOVE EXISTING ASPHALT/CONCRETE
- TEMPORARY SEDIMENT POND

GENERAL NOTES:

- ALL DISTURBED AREAS TO BE STABILIZED TO PRE-CONSTRUCTION CONDITION OR BETTER.
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- CONTRACTOR SHALL DESIGNATE A WASHINGTON DEPARTMENT OF ECOLOGY CERTIFIED EROSION AND SEDIMENT CONTROL LEADPERSON, AND SHALL COMPLY WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THIS PROJECT.
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CONSTRUCTION NOTES:

- MAINTAIN AND PROTECT EXISTING UTILITIES.
- PRESERVE AND PROTECT EXISTING ASPHALT ROAD.
- PRESERVE AND PROTECT EXISTING VEGETATION. SEE SHT TS-01 FOR DETAIL.
- ADJUST EXISTING UTILITY TO FINISHED GRADE.
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- INSTALL TEMPORARY CONSTRUCTION ENTRANCE SEE CITY OF PUYALLUP STANDARD NO. 05.01.01 ON SHEET DM-06.
- INSTALL SILTATION FENCE SEE CITY OF PUYALLUP STANDARD NO. 02.03.02 ON SHEET DM-06.
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- INSTALL BARRIER WITH GRAVEL OUTLET SEE CITY OF PUYALLUP STANDARD NO. 02.03.04 ON SHEET DM-06.
- INSTALL STORM DRAIN BARRIERS SEE CITY OF PUYALLUP STANDARD NO. 02.03.05 ON SHEET DM-06.

NOTE:
SYMBOLS NOT TO SCALE

100 % REVIEW SUBMITTAL

APPROVED

BY: *[Signature]*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE: 08/26/2022

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.

**City of Puyallup
Development & Permitting Services
ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

REVISIONS	DATE	BY	DESIGNED WZG
			DRAWN RLP
			CHECKED DMS
			APPROVED DMS

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FILE NAME
03-P50731200C-DM
JOB No.
217-7312-004
DATE
JULY 2022



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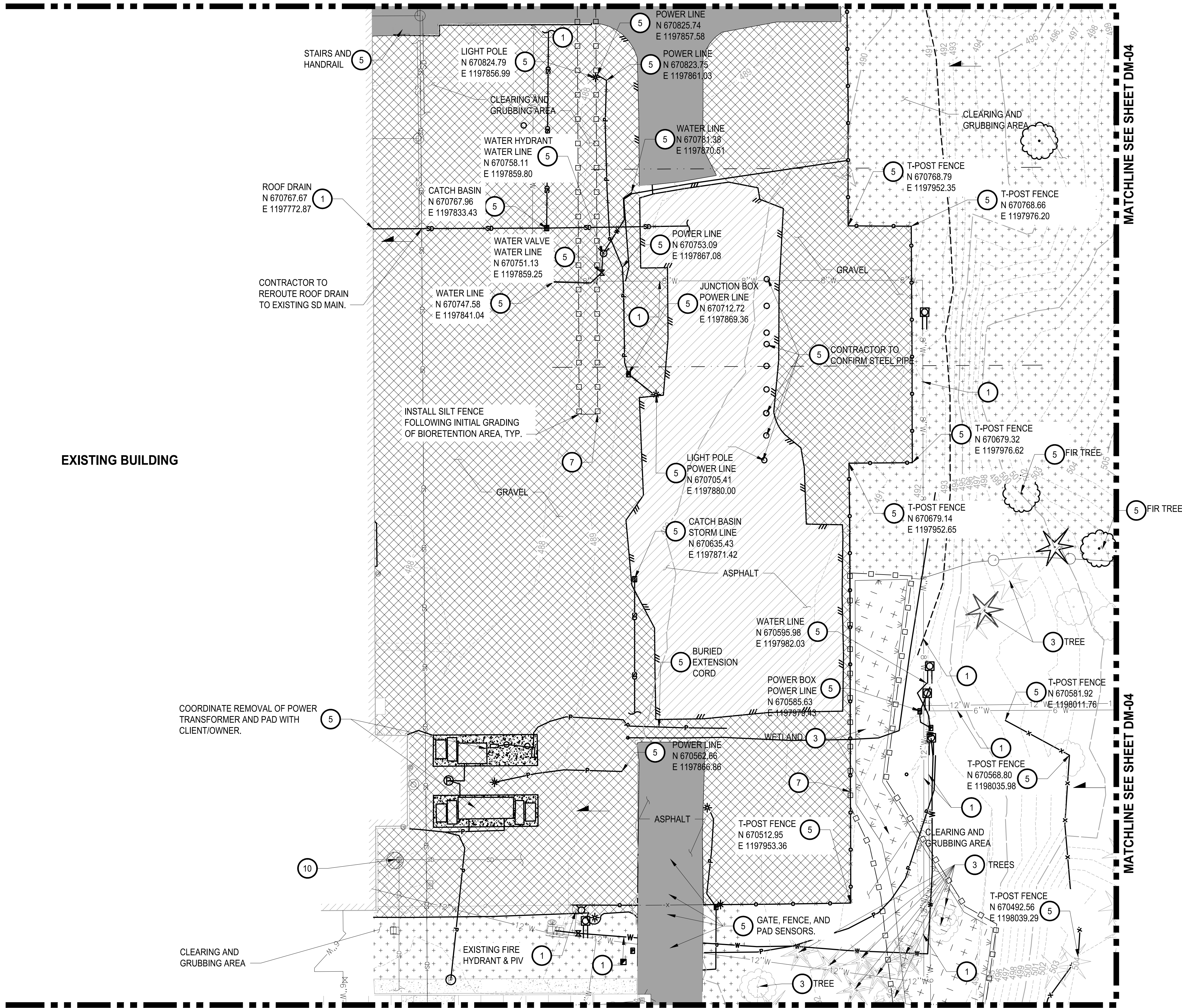
PROJECT NAME
**SOUTH HILL BUSINESS &
TECHNOLOGY CENTER
PARKING EXPANSION**
PUYALLUP, WA

**DEMOLITION, TESC, CLEARING
& GRUBBING PLAN**

DRAWING NO.
14 OF 58
DM-02

MATCHLINE SEE SHEET DM-01

MATCHLINE SEE SHEET DM-01



EXISTING BUILDING

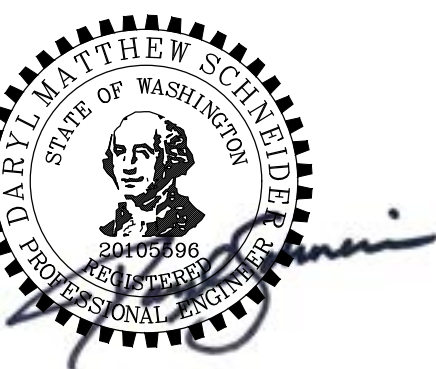
COORDINATE REMOVAL OF POWER TRANSFORMER AND PAD WITH CLIENT/OWNER.

CLEARING AND GRUBBING AREA

ROOF DRAIN
N 670767.67
E 1197772.87

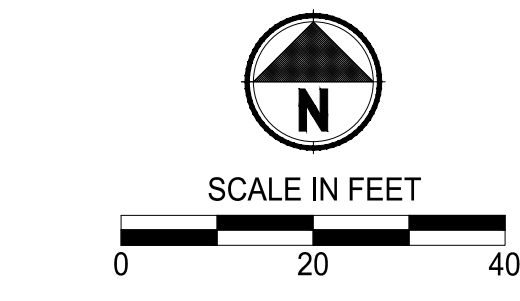
CONTRACTOR TO REROUTE ROOF DRAIN TO EXISTING SD MAIN.

INSTALL SILT FENCE FOLLOWING INITIAL GRADING OF BIORETENTION AREA, TYP.



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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
PUYALLUP, WA



APPROVED
BY: *[Signature]*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
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City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
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NOTE:
SYMBOLS NOT TO SCALE

100 % REVIEW SUBMITTAL

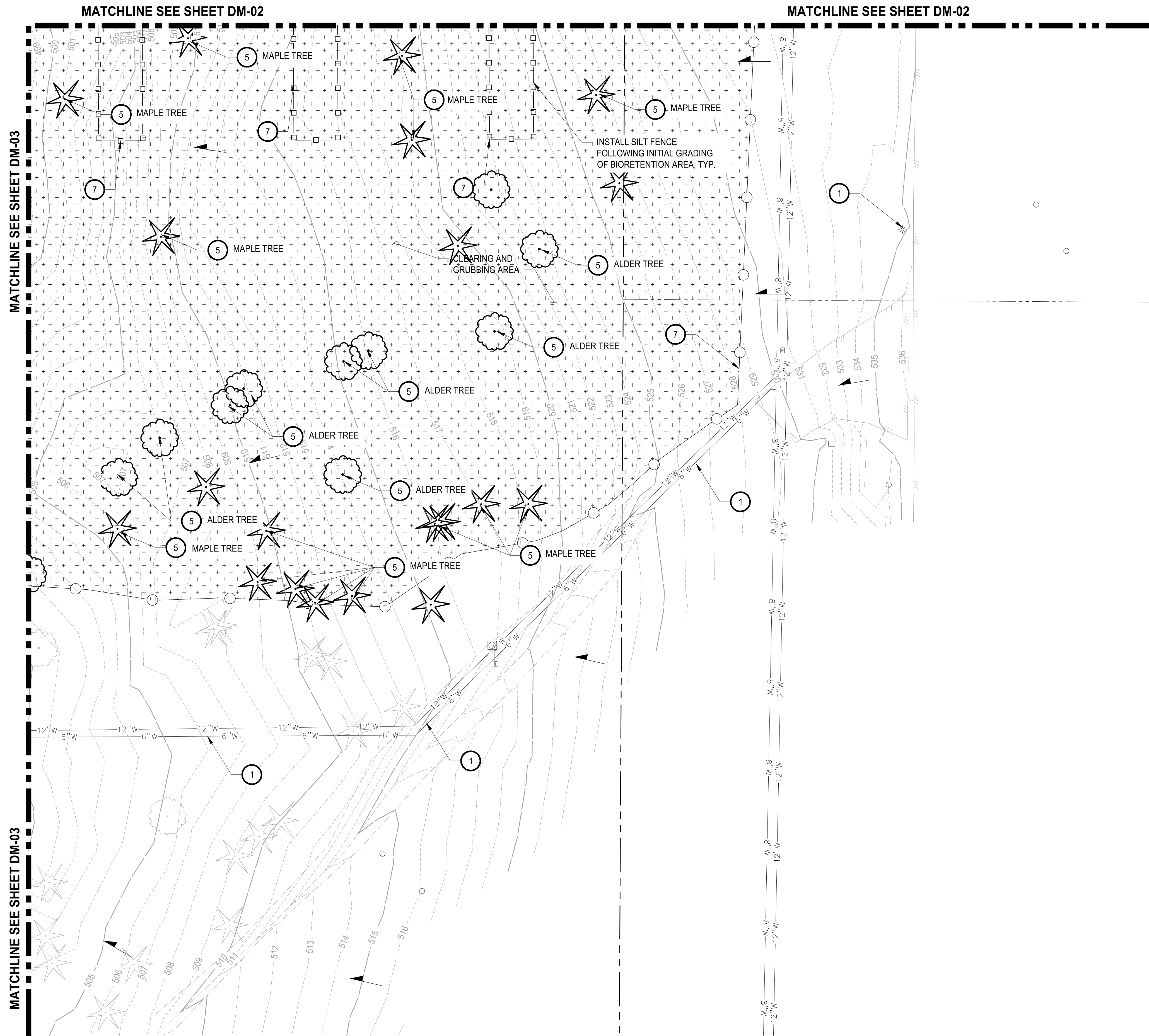
REVISIONS	DATE	BY	DESIGNED WZG
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FILE NAME
03-PSO731200C-DM
JOB No.
217-7312-004
DATE
JULY 2022

DRAWING NO.
15 OF 58
DM-03

LAYOUT: DM-04 PATH: U:\P50\Projects\Clients\7312-Benaroya\217-7312-004-SHB&TParkingExpansion\995vcs\CADD\DWG PLOTTED BY: petlitus DATE: Thursday, July 28, 2022 11:35:48 AM





APPROVED

BY: 
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

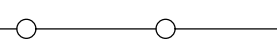
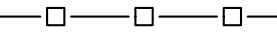
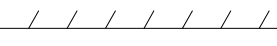

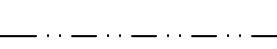


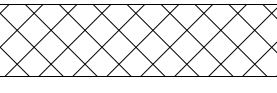
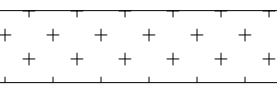

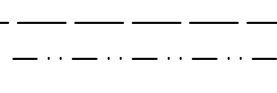
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**Know what's below.
Call before you dig.**


SCALE IN FEET
0 20 40

LEGEND:

-  HIGH VISIBILITY FENCE
-  SILTATION FENCE
-  SAWCUT LINE
-  DEMOLITION AND REMOVAL
-  TEMPORARY INTERCEPTOR SWALE
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REVISIONS	DATE	BY	DESIGNED WZG
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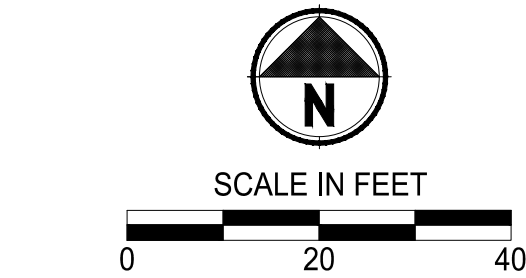
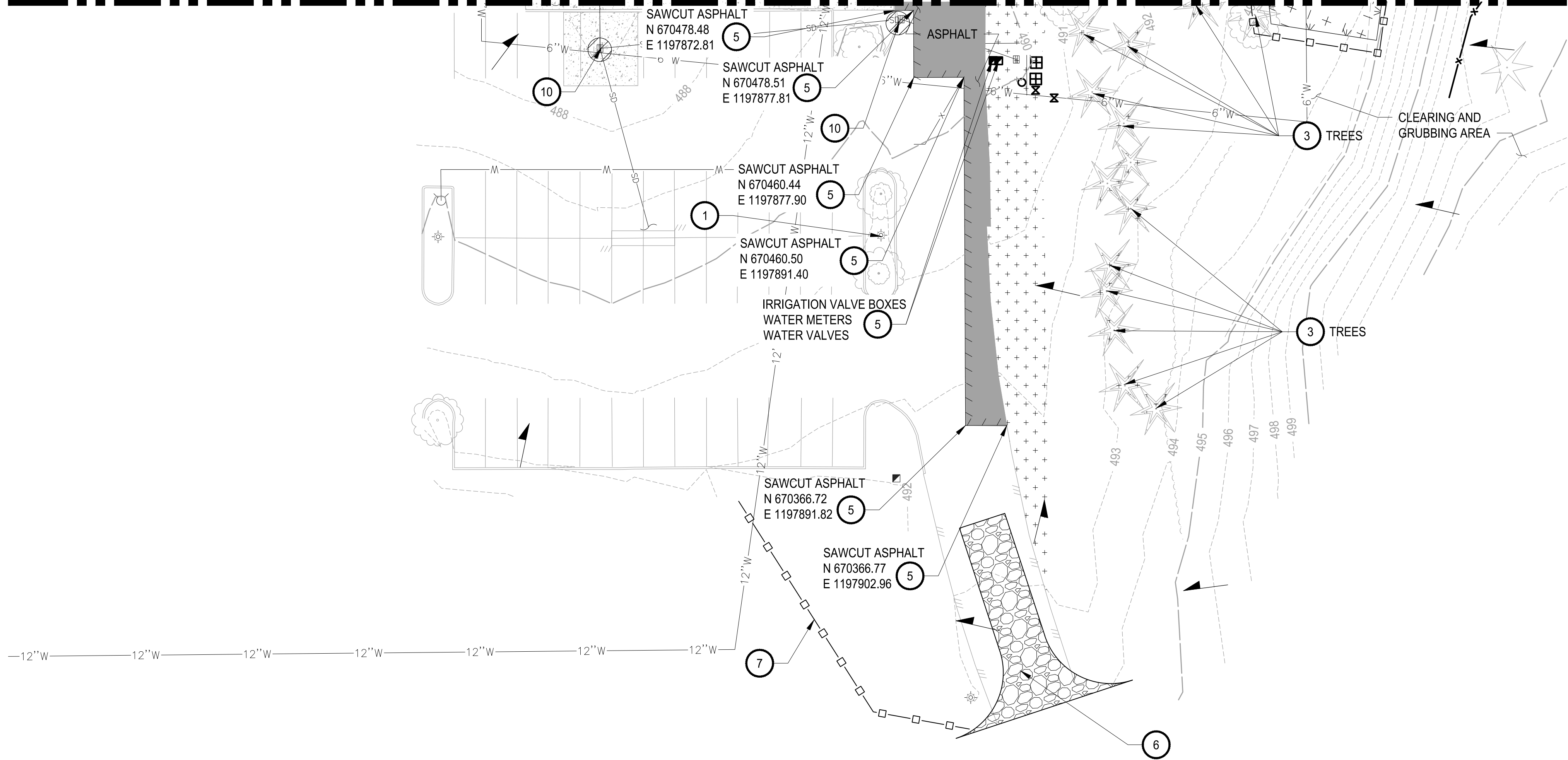
PROJECT NAME
**SOUTH HILL BUSINESS &
TECHNOLOGY CENTER
PARKING EXPANSION**
PUYALLUP, WA

**DEMOLITION, TESC, CLEARING
& GRUBBING PLAN**

DRAWING NO.
16 OF 58
DM-04

MATCHLINE SEE SHEET DM-03

MATCHLINE SEE SHEET DM-03



LEGEND:

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- SILTATION FENCE
- SAWCUT LINE
- DEMOLITION AND REMOVAL
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APPROVED

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DEVELOPMENT ENGINEERING

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City of Puyallup
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PROJECT NAME

SOUTH HILL BUSINESS &
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PARKING EXPANSION
PUYALLUP, WA

DEMOLITION, TESC, CLEARING
& GRUBBING PLAN

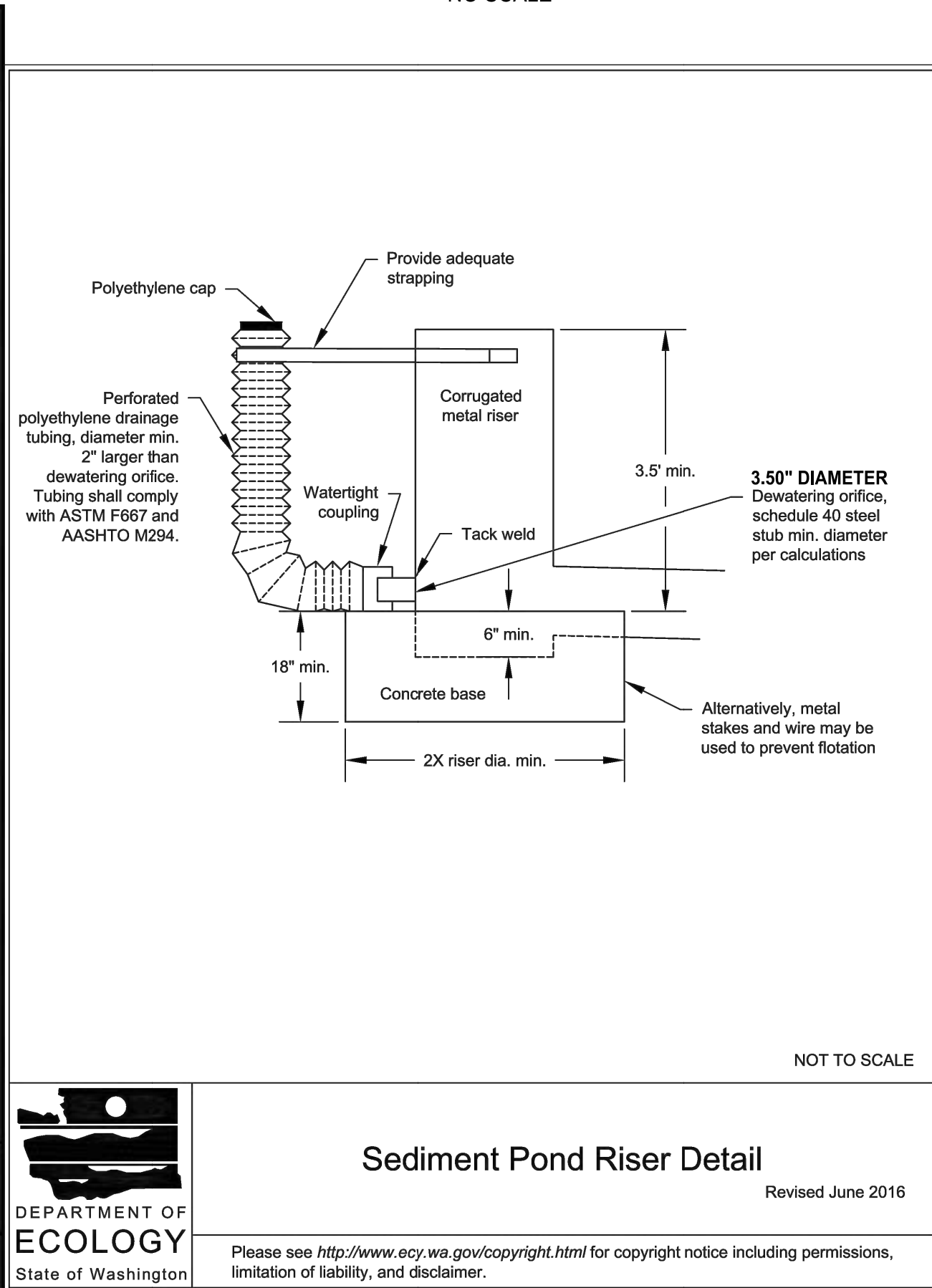
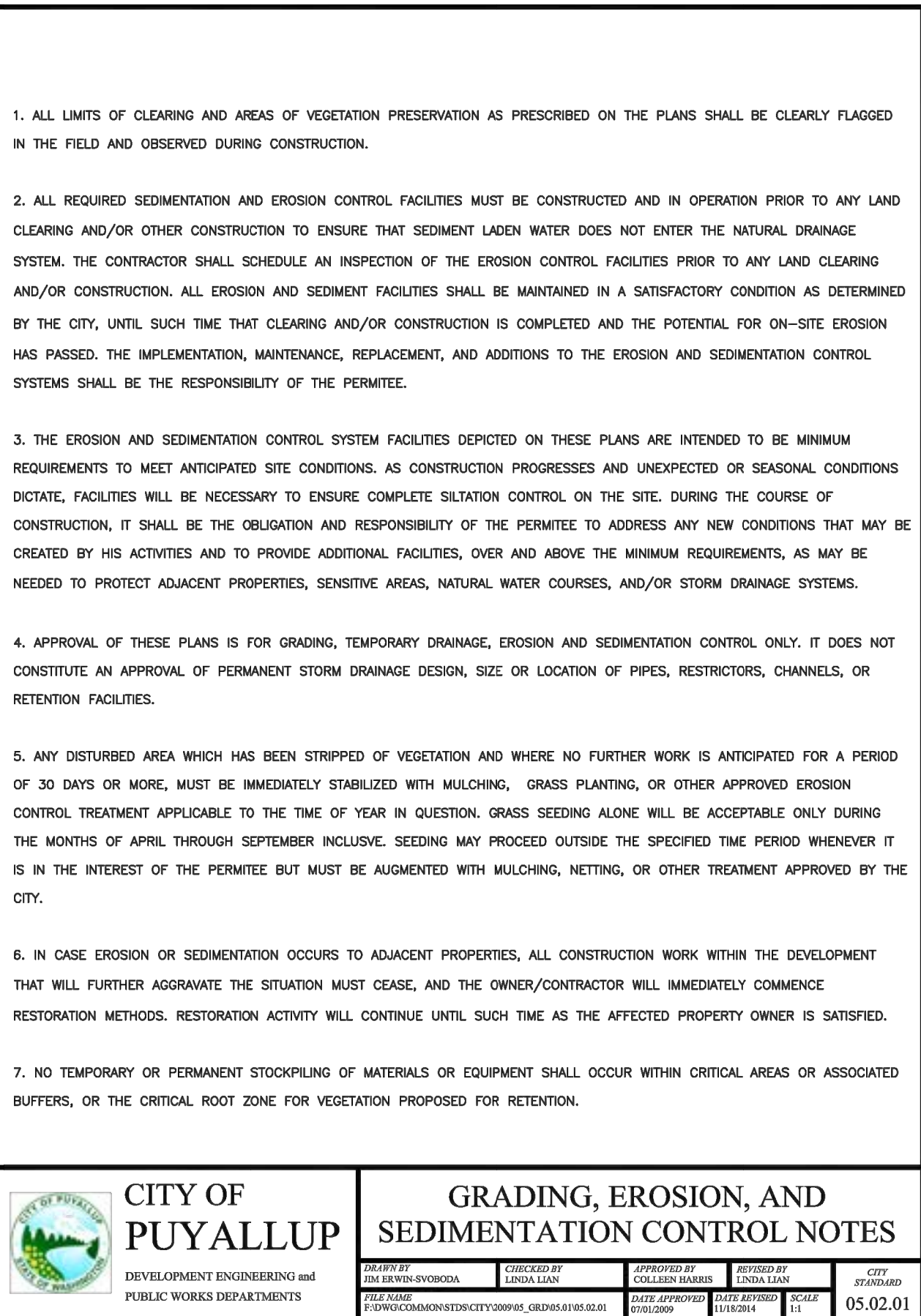
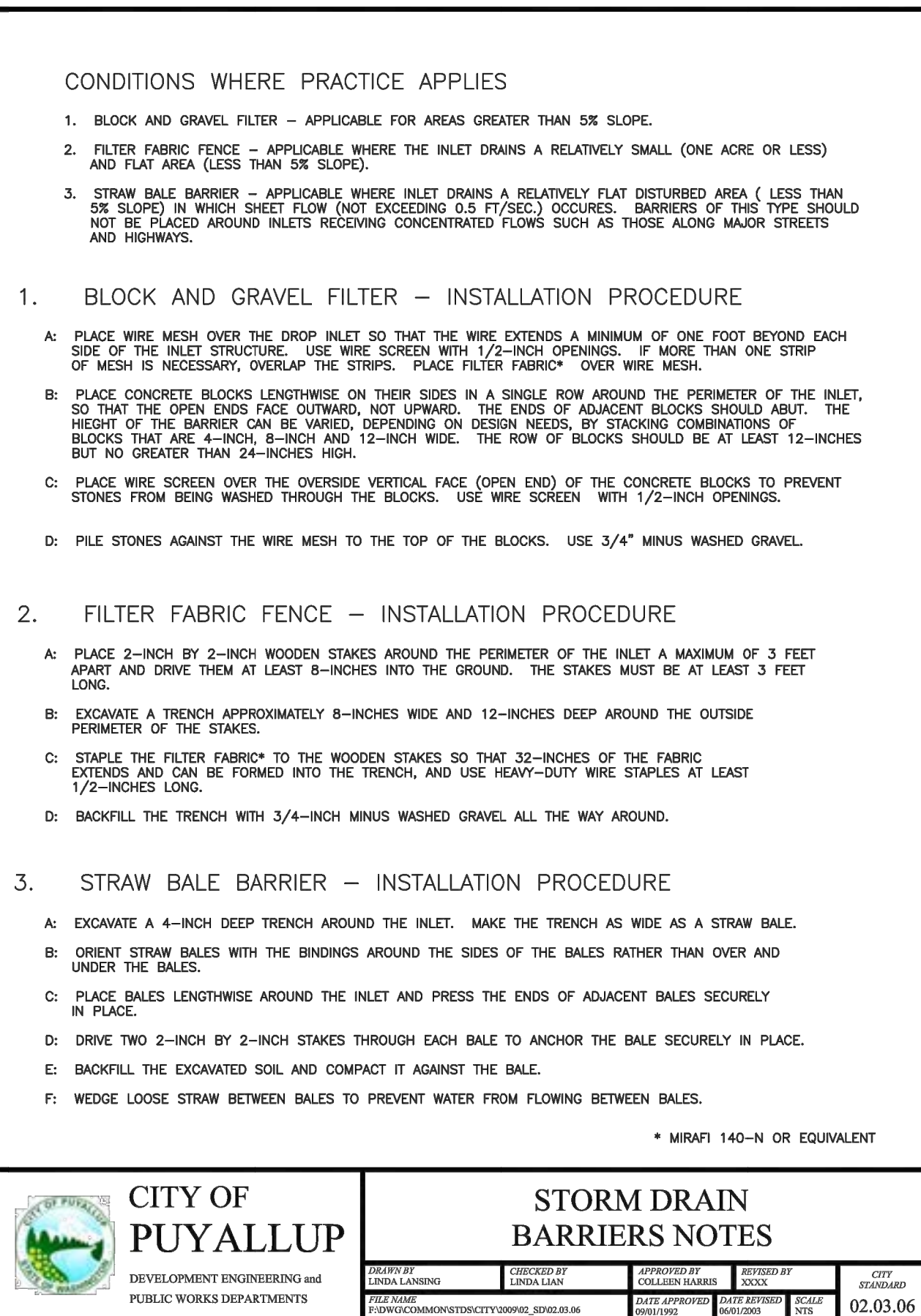
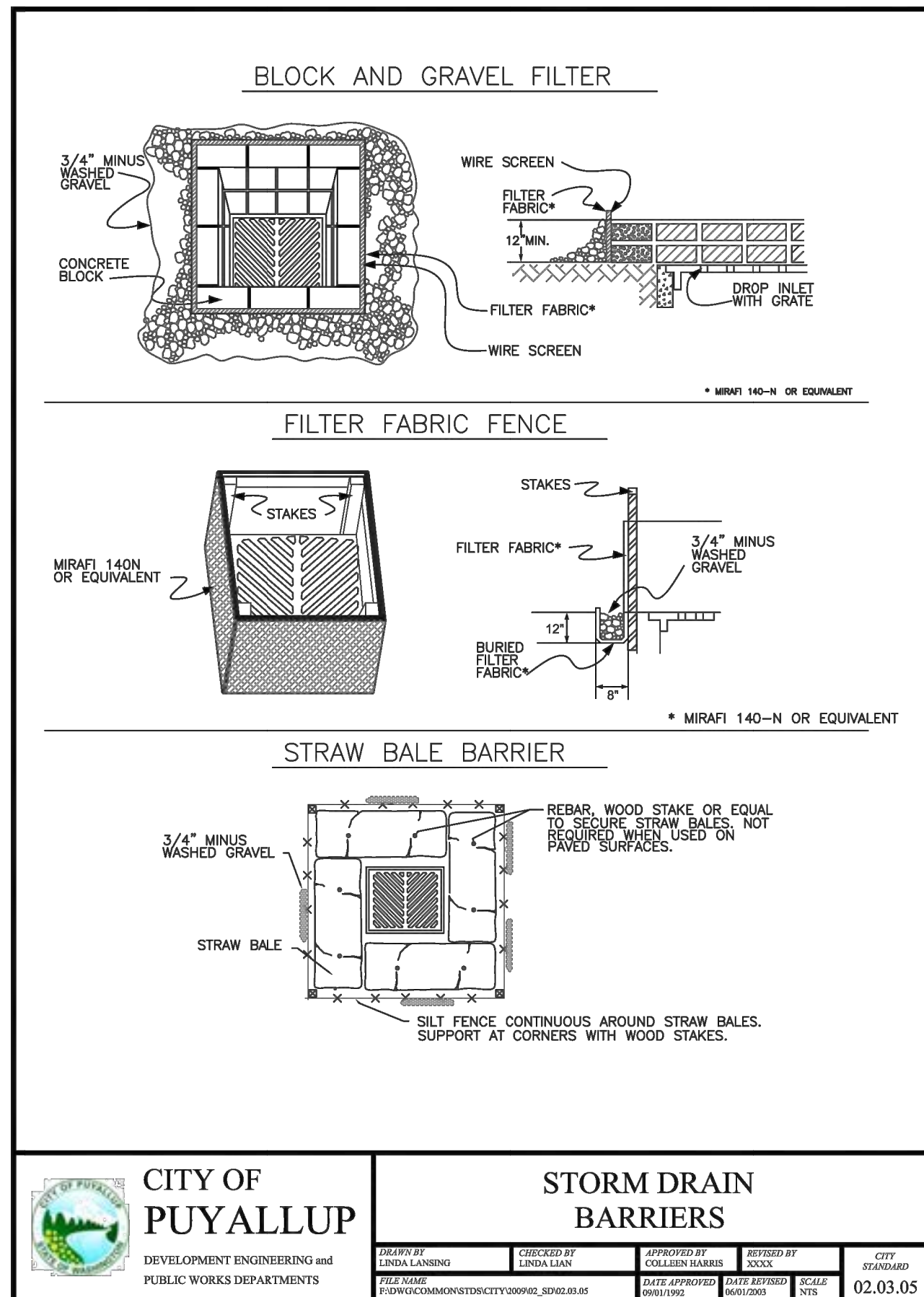
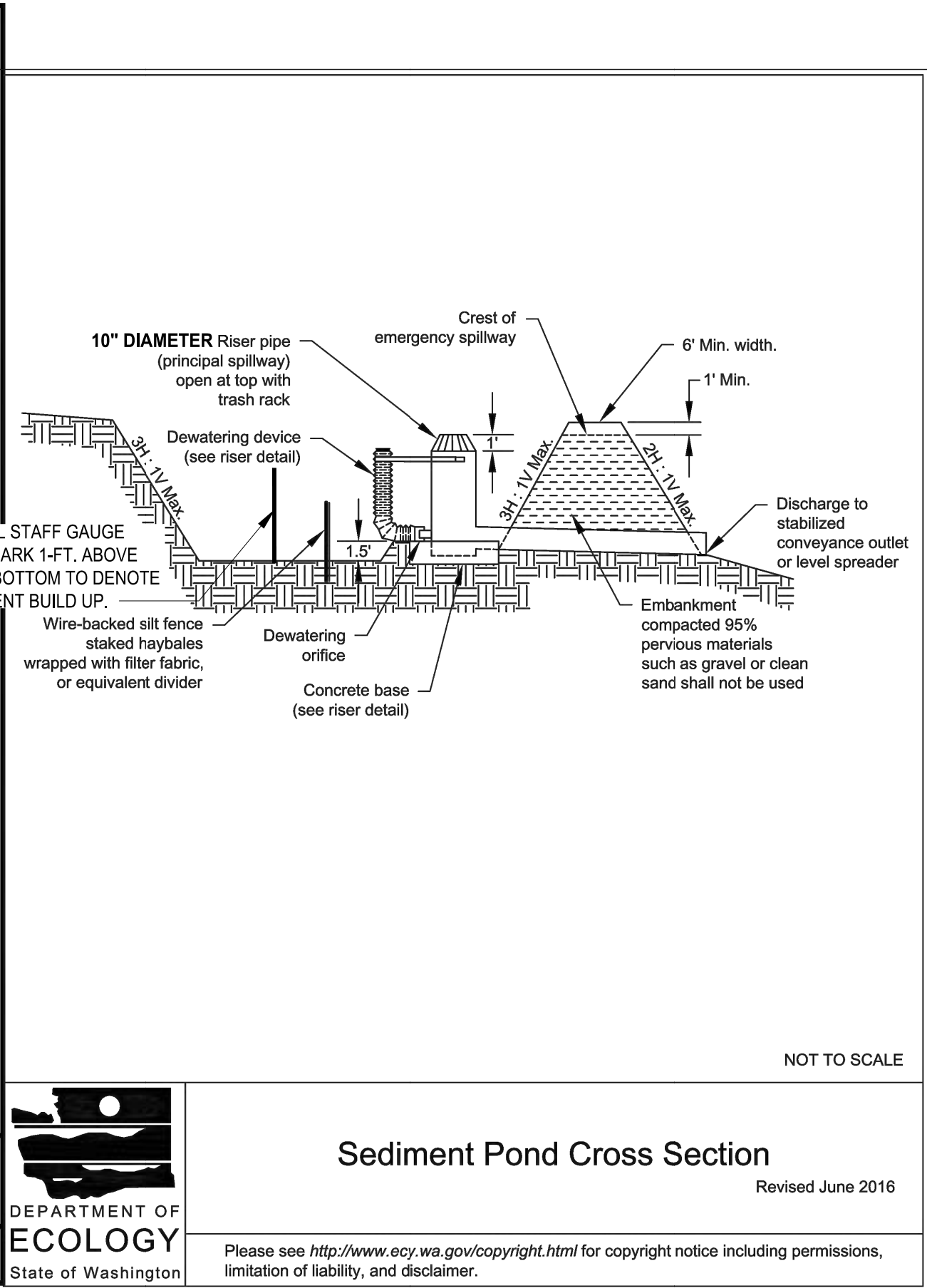
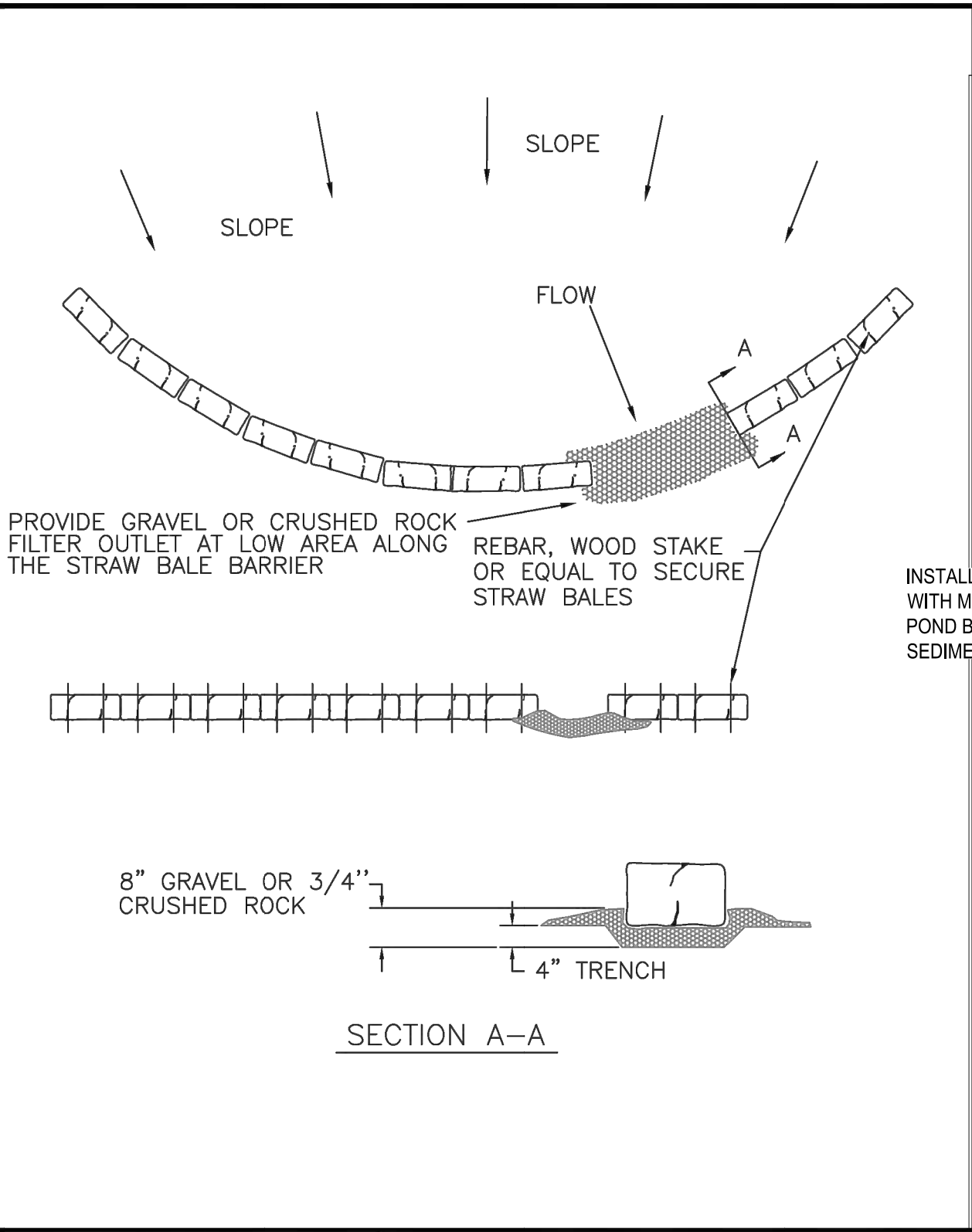
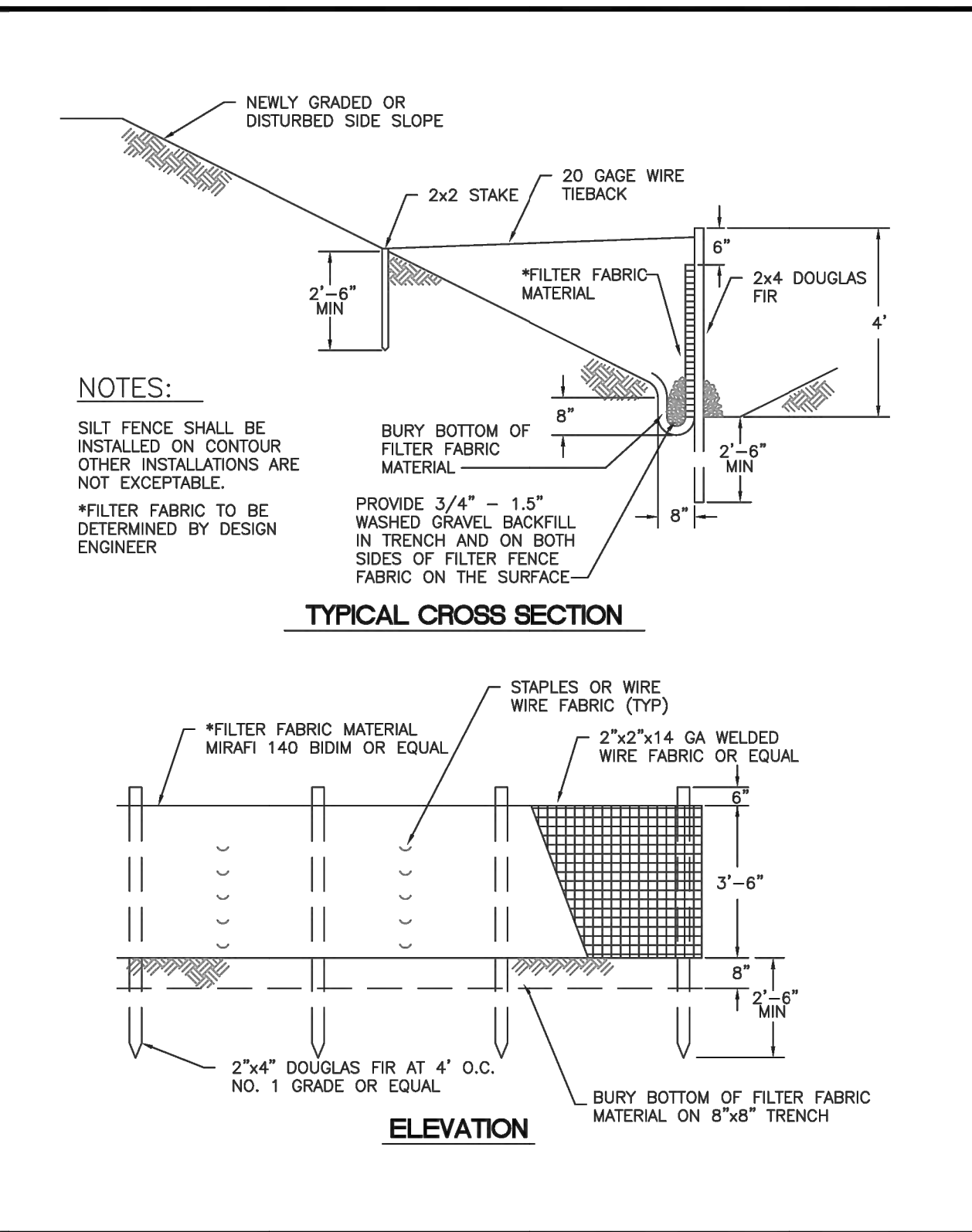
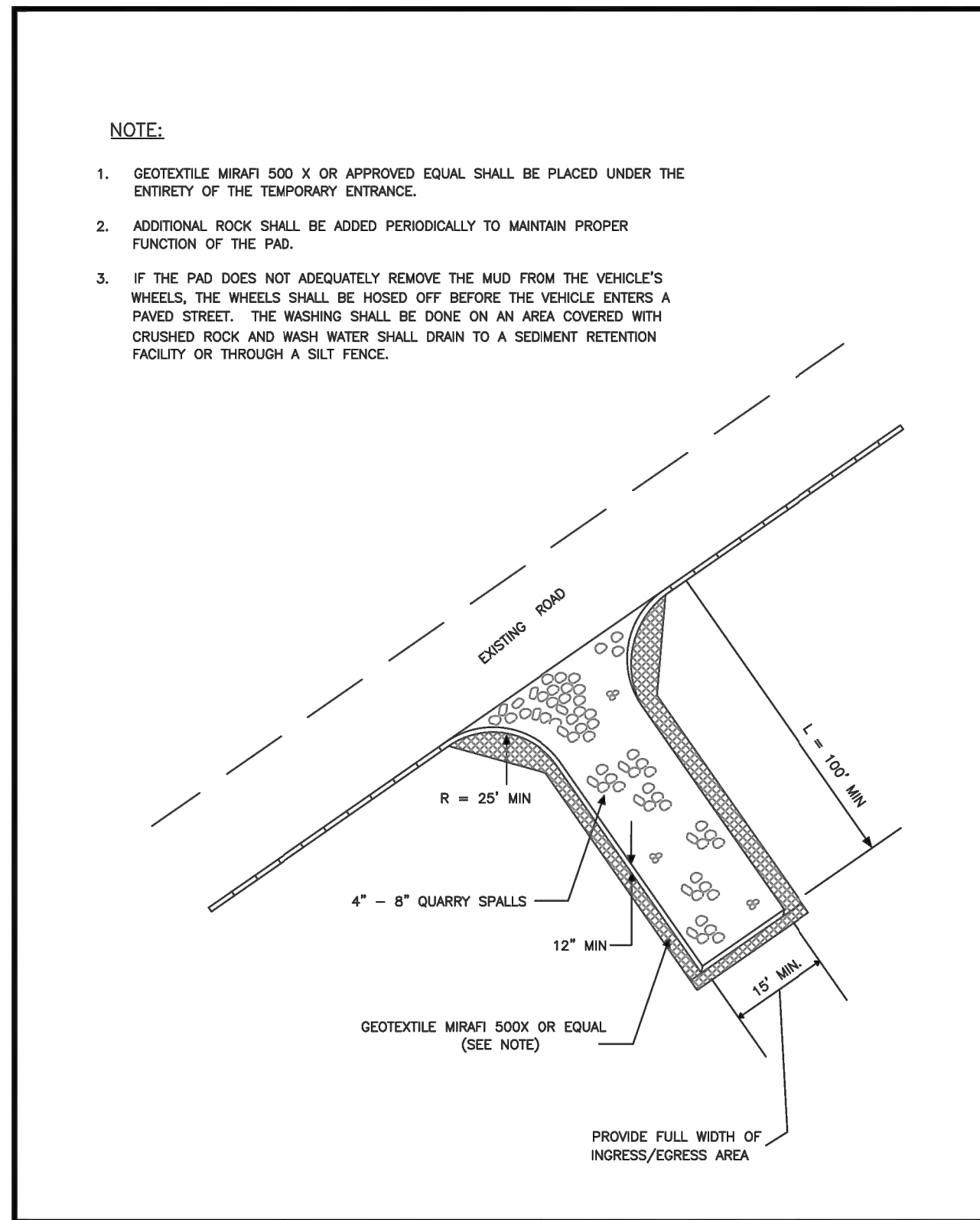
DRAWING NO.
17 OF 58

DM-05

LAYOUT: DM-05 PATH: U:\P50\Projects\Clients\7312-Benaroya\7312-Benaroya\217-7312-004-SHB&TParkingExpansion\985ves\CADD\DWG PLOTTED BY: pettitus DATE: Thursday, July 28, 2022 11:35:53 AM

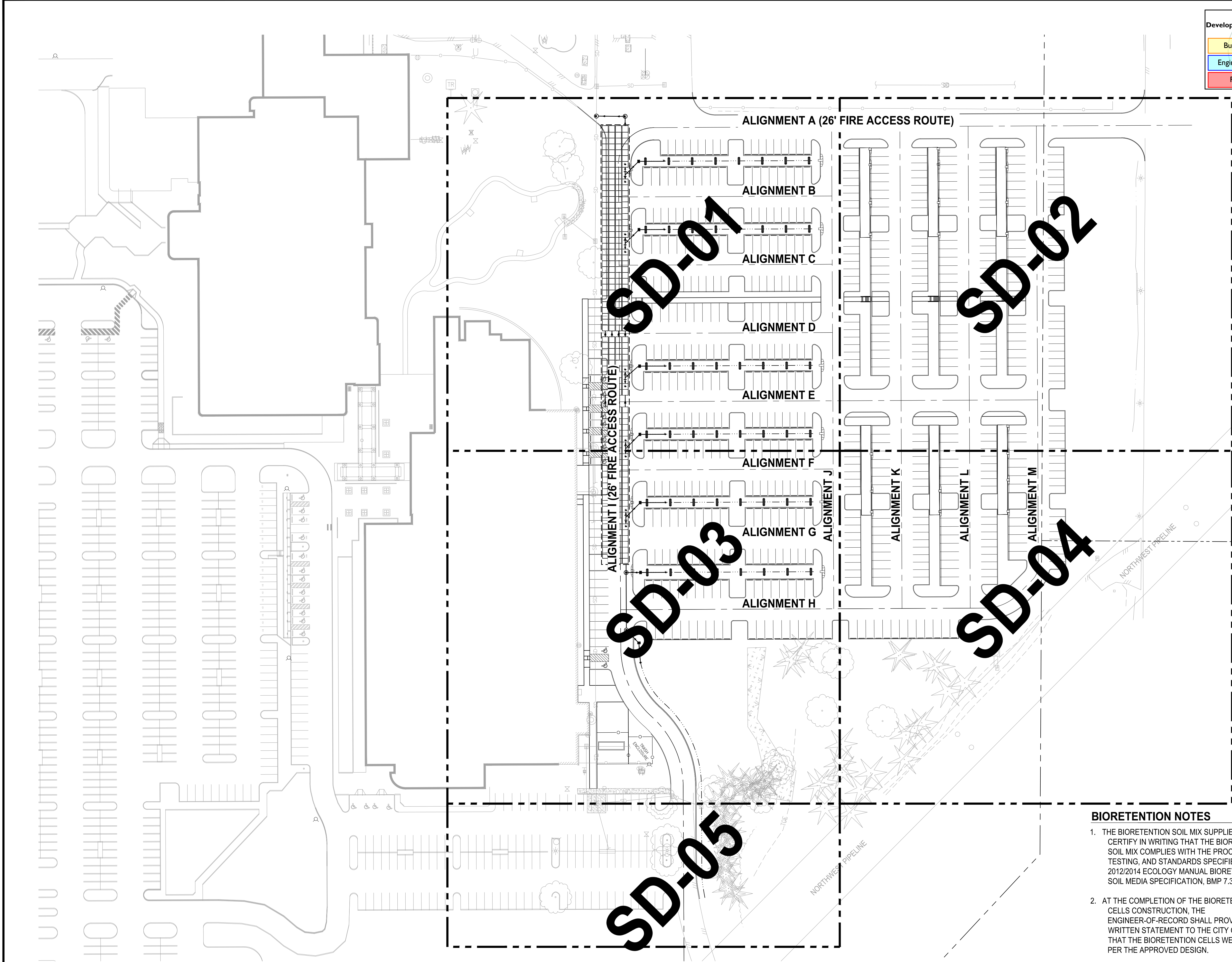
REVISIONS	DATE	BY	DESIGNED WZG
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ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY			
FILE NAME 03-PSO731200C-DM			
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DATE JULY 2022			



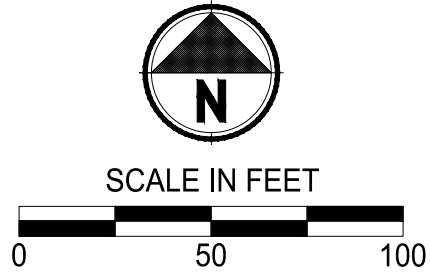
- ## ECOLOGICAL SILT FENCE NOTES PER BMP C23.3:
1. THE CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY SILT FENCES AT THE LOCATIONS SHOWN IN THE PLANS.
 2. CONSTRUCT SILT FENCES IN AREAS OF CLEARING, GRADING, OR DRAINAGE PRIOR TO STARTING THOSE ACTIVITIES.
 3. THE SILT FENCE SHALL HAVE A 2-FEET MIN. AND A 2½-FEET MAX. HEIGHT ABOVE THE ORIGINAL GROUND SURFACE.
 4. THE GEOTEXTILE FABRIC SHALL BE SEWN TOGETHER AT THE POINT OF MANUFACTURE TO FORM FABRIC LENGTHS AS REQUIRED. LOCATE ALL SEWN SEAMS AT SUPPORT POSTS. ALTERNATIVELY, TWO SECTIONS OF SILT FENCE CAN BE OVERLAPPED, PROVIDED THAT THE OVERLAP IS LONG ENOUGH AND THAT THE ADJACENT SILT FENCE SECTIONS ARE CLOSE ENOUGH TOGETHER TO PREVENT SILT LAIDEN WATER FROM ESCAPING THROUGH THE FENCE AT THE OVERLAP.
 5. ATTACH THE GEOTEXTILE FABRIC ON THE UP-SLOPE SIDE OF THE POSTS AND SECURE WITH STAPLES, WIRE, OR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ATTACH THE GEOTEXTILE FABRIC TO THE POSTS IN A MANNER THAT REDUCES THE POTENTIAL FOR TEARING.
 6. SUPPORT THE GEOTEXTILE FABRIC WITH WIRE OR PLASTIC MESH. DEPENDENT ON THE PROPERTIES OF THE GEOTEXTILE SELECTED FOR USE, IF WIRE OR PLASTIC MESH IS USED, FASTEN THE MESH SECURELY TO THE UP-SLOPE SIDE OF THE POSTS WITH THE GEOTEXTILE FABRIC UP-SLOPE OF THE MESH.
 7. MESH SUPPORT, IF USED, SHALL CONSIST OF STEEL WIRE WITH A MAXIMUM MESH SPACING OF 2- INCHES, OR A PREFABRICATED POLYMERIC MESH. THE STRENGTH OF THE WIRE OR POLYMERIC MESH SHALL BE EQUIVALENT TO OR GREATER THAN 180 LBS. GRAB TENSILE STRENGTH. THE POLYMERIC MESH MUST BE AS RESISTANT TO THE SAME LEVEL OF ULTRAVIOLET RADIATION AS THE GEOTEXTILE FABRIC IT SUPPORTS.
 8. BURY THE BOTTOM OF THE GEOTEXTILE FABRIC 4-INCHES MIN. BELOW THE GROUND SURFACE. BACKFILL AND TAMP SOIL IN PLACE OVER THE BURIED PORTION OF THE GEOTEXTILE FABRIC, SO THAT NO FLOW CAN PASS BENEATH THE SILT FENCE AND SCOURING CANNOT OCCUR. WHEN WIRE OR POLYMERIC BACK-UP SUPPORT MESH IS USED, THE WIRE OR POLYMERIC MESH SHALL EXTEND INTO THE GROUND 3-INCHES MIN.
 9. DRIVE OR PLACE THE SILT FENCE POSTS INTO THE GROUND 18-INCHES MIN. A 12-INCH MIN. DEPTH IS ALLOWED IF TOPSOIL, OR OTHER SOFT SUBGRADE SOIL IS NOT PRESENT AND 18-INCHES CANNOT BE REACHED. INCREASE FENCE POST MIN. DEPTHS BY 6 INCHES IF THE FENCE IS LOCATED ON SLOPES OF 3H:1V OR STEEPER AND THE SLOPE IS PERPENDICULAR TO THE FENCE. IF REQUIRED POST DEPTHS CANNOT BE OBTAINED, THE POSTS SHALL BE ADEQUATELY SECURED BY BRACING OR GUYING TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT LOADING.
 10. USE WOOD, STEEL OR EQUIVALENT POSTS. THE SPACING OF THE SUPPORT POSTS SHALL BE A MAXIMUM OF 6- FEET. POSTS SHALL BE MADE OF EITHER:
 - WOOD WITH MINIMUM DIMENSIONS OF 2 INCHES BY 2 INCHES BY 5 FEET. WOOD SHALL BE FREE OF DEFECTS SUCH AS KNOTS, SPLITS, OR GOUGES.
 - NO. 6 STEEL REBAR OR LARGER.
 - ASTM A 120 STEEL PIPE WITH A MINIMUM DIAMETER OF 1-INCH.
 - U, T, L, OR C SHAPE STEEL POSTS WITH A MINIMUM WEIGHT OF 1.35 LBS./FT.
 - OTHER STEEL POSTS HAVING EQUIVALENT STRENGTH AND BENDING RESISTANCE TO THE POST SIZES LISTED ABOVE.
 11. LOCATE SILT FENCES ON CONTOUR AS MUCH AS POSSIBLE, EXCEPT AT THE ENDS OF THE FENCE. WHERE THE FENCE SHALL BE TURNED UPHILL SUCH THAT THE SILT FENCE CAPTURES THE RUNOFF WATER AND PREVENTS WATER FROM FLOWING AROUND THE END OF THE FENCE.
 12. IF THE FENCE MUST CROSS CONTOURS, WITH THE EXCEPTION OF THE ENDS OF THE FENCE, PLACE CHECK DAMS PERPENDICULAR TO THE BACK OF THE FENCE TO MINIMIZE CONCENTRATED FLOW AND EROSION. THE SLOPE OF THE FENCE LINE WHERE CONTOURS MUST BE CROSSED SHALL NOT BE STEEPER THAN 3H:1V.
 - GRAVEL CHECK DAMS SHALL BE APPROXIMATELY 1-FOOT DEEP AT THE BACK OF THE FENCE. CHECK DAMS SHALL BE CONTINUED PERPENDICULAR TO THE FENCE AT THE SAME ELEVATION UNTIL THE TOP OF THE CHECK DAM INTERCEPTS THE GROUND SURFACE BEHIND THE FENCE.
 - GRAVEL CHECK DAMS SHALL CONSIST OF CRUSHED SURFACING BASE COURSE, GRAVEL BACKFILL FOR WALLS, OR SHOULDER BALLAST. CHECK DAMS SHALL BE LOCATED EVERY 10 FEET ALONG THE FENCE WHERE THE FENCE MUST CROSS CONTOURS.

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City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



APPROVED

BY  CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 08/26/2022

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.

- LEGEND:
- PROPERTY LINE
 - ROADWAY CENTERLINE
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 - CURB AND GUTTER PER WSDOT STD PLAN F-10.12-04
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 - CEMENT CONCRETE SIDEWALK
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 - COMPACT PARKING STALL 8'x17'
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 - STANDARD PARKING STALL 9'x20' WITH ELECTRIC VEHICLE CHARGING STATION

- GENERAL NOTES:
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NOTE: SYMBOLS NOT TO SCALE

100 % REVIEW SUBMITTAL

REVISIONS	DATE	BY	DESIGNED WZG
			DRAWN RLP
			CHECKED DCS
			APPROVED DCS

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

FILE NAME
04-PSO731200C-SD-HS

JOB No.
217-7312-004

DATE
JULY 2022



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PROJECT NAME

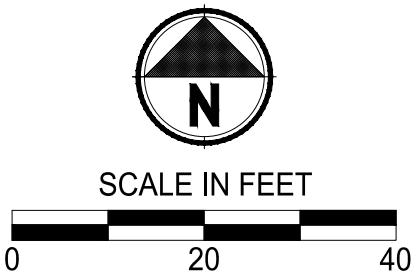
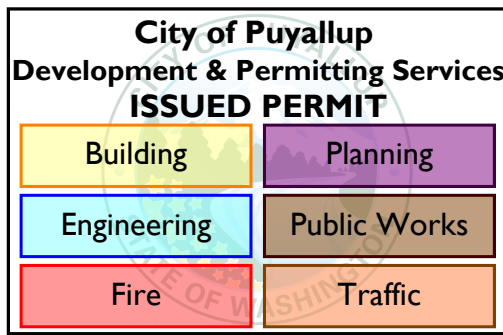
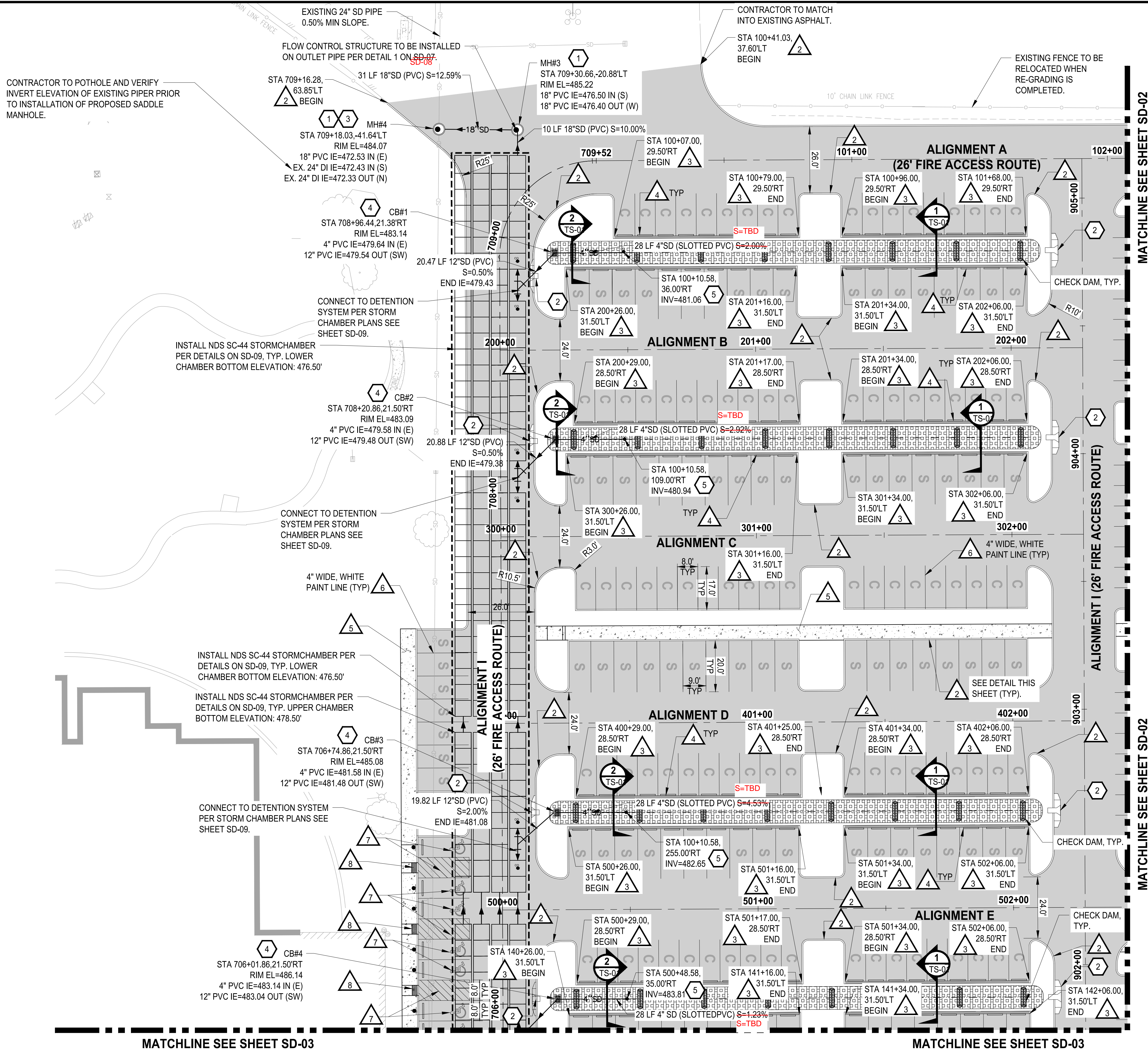
SOUTH HILL BUSINESS &
TECHNOLOGY CENTER
PARKING EXPANSION
PUYALLUP, WA

HARDSCAPE & STORM
DRAINAGE PLAN COMPOSITE

DRAWING NO.
19 OF 58

SD-00

LAYOUT: SD-01
PATH: U:\PDS\Projects\Client\312-Benaroya\312-Benaroya\04-SH&T\ParkingExpansion\995\CAAD\DWG
PLOTTED BY: petrus DATE: Thursday, July 28, 2022 11:38:35 AM



APPROVED

[Signature]
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE: 08/26/2022

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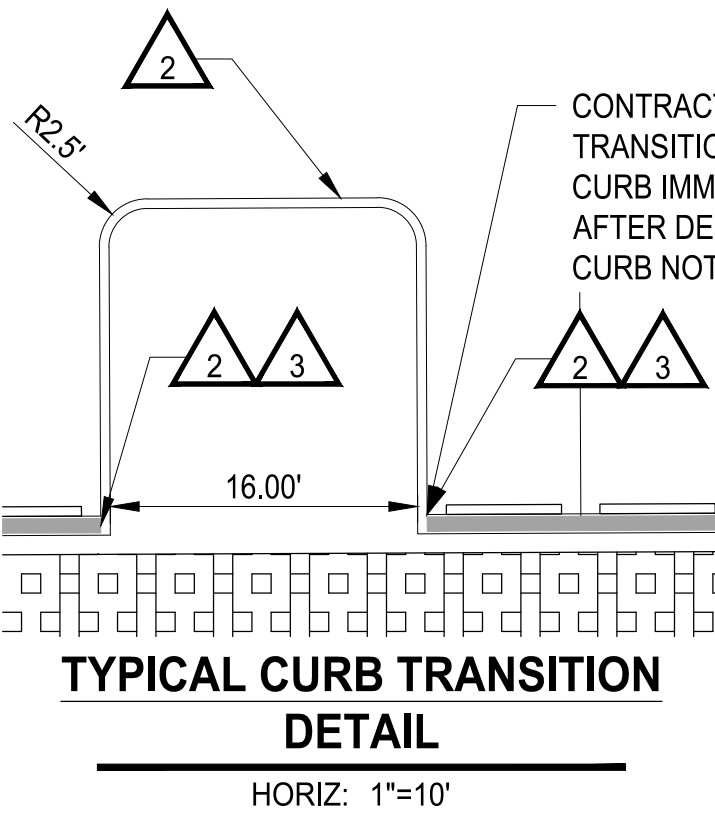
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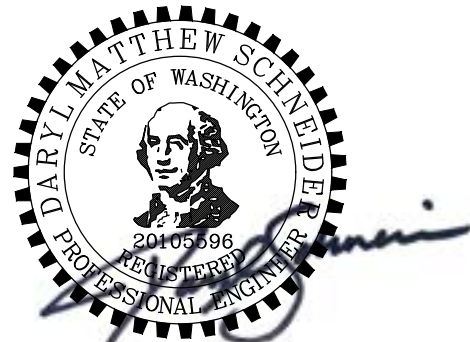
NOTE: SYMBOLS NOT TO SCALE

100 % REVIEW SUBMITTAL



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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
PUYALLUP, WA

HARDSCAPE & STORM DRAINAGE PLAN

DRAWING NO.
20 OF 58
SD-01

REVISIONS	DATE	BY	DESIGNED WZG
			DRAWN RLP
			CHECKED DCS
			APPROVED DCS

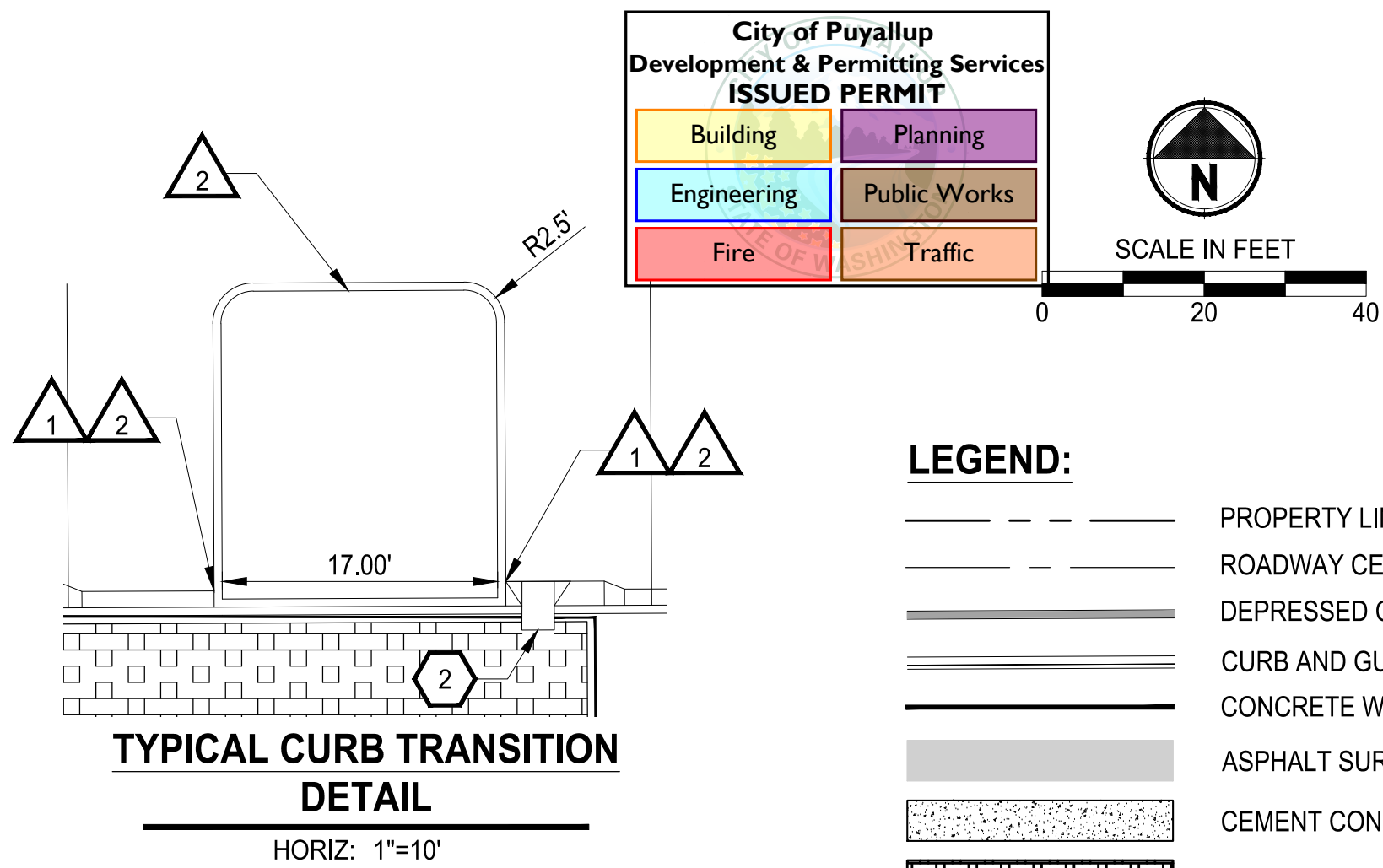
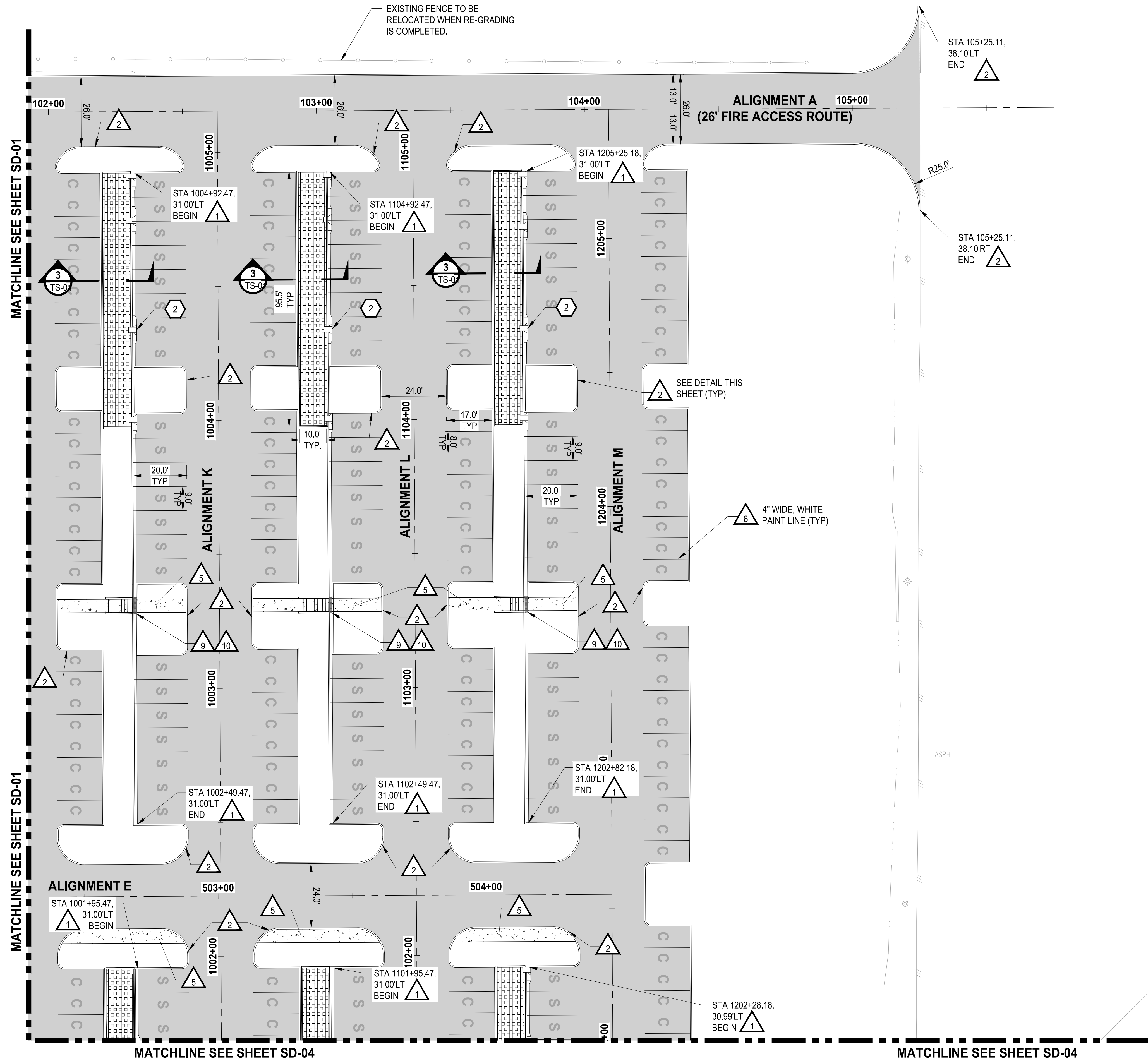
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FILE NAME: 04-PS0731200C-SD-HS

JOB NO: 217-7312-004

DATE: JULY 2022

\\P001\Projects\217-7312-004_South Hill Business & Technology Center Parking Expansion\995\CA\CA00.DWG PLOTTED BY: petrus DATE: Thursday, July 28, 2022 11:38:46 AM LAYOUT: SD-02



- LEGEND:**
- PROPERTY LINE
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NOTE: SYMBOLS NOT TO SCALE

100 % REVIEW SUBMITTAL

REVISIONS	DATE	BY	DESIGNED WZG	DRAWN RLP	CHECKED DCS	APPROVED DCS

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FILE NAME
04-PSO731200C-SD-HS

JOB No.
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DATE
JULY 2022



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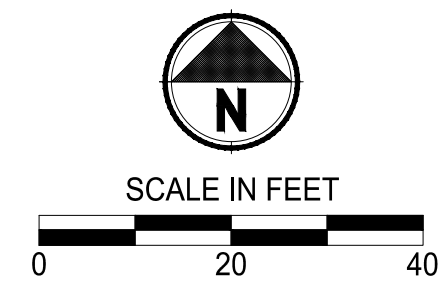
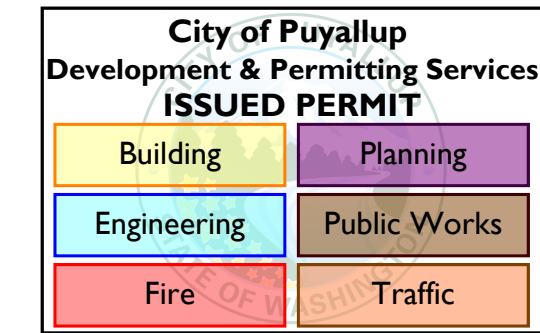
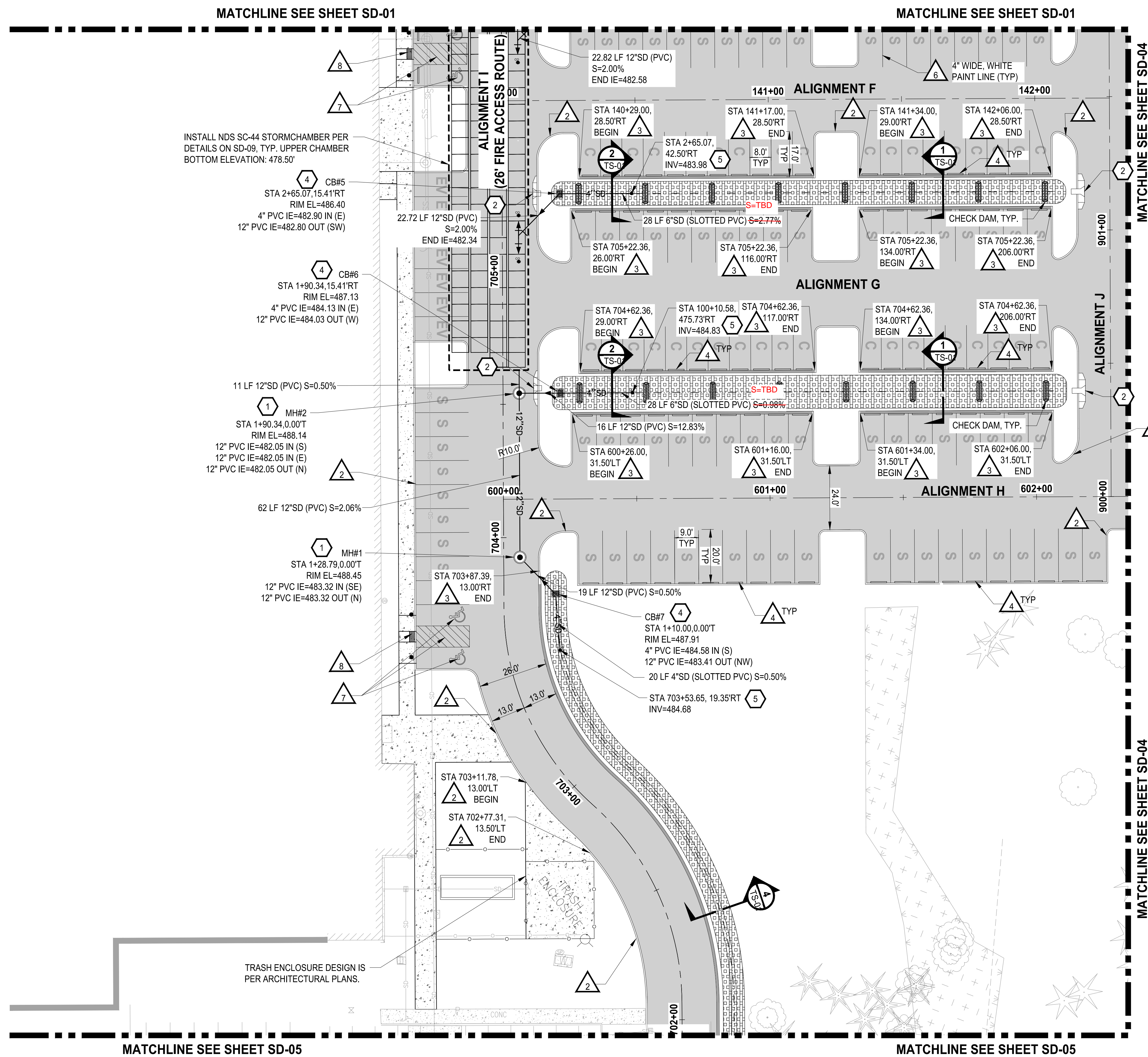
PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
PUYALLUP, WA

HARDSCAPE & STORM DRAINAGE PLAN


DRAWING NO.
21 OF 58

SD-02

PATH: U:\P50\Projects\City\217-7312-004_SHB&TParkingExpansion\995\va\0400.DWG PLOTTED BY: petlinus DATE: Thursday, July 28, 2022 11:38:56 AM LAYOUT: SD-03



APPROVED

BY  CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 08/26/2022

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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100 % REVIEW SUBMITTAL

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PROJECT NAME

SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION

PUYALLUP, WA

HARDSCAPE & STORM DRAINAGE PLAN

DRAWING NO.
22 OF 58

SD-03

REVISIONS	DATE	BY	DESIGNED WZG	DRAWN RLP	CHECKED DCS	APPROVED DCS

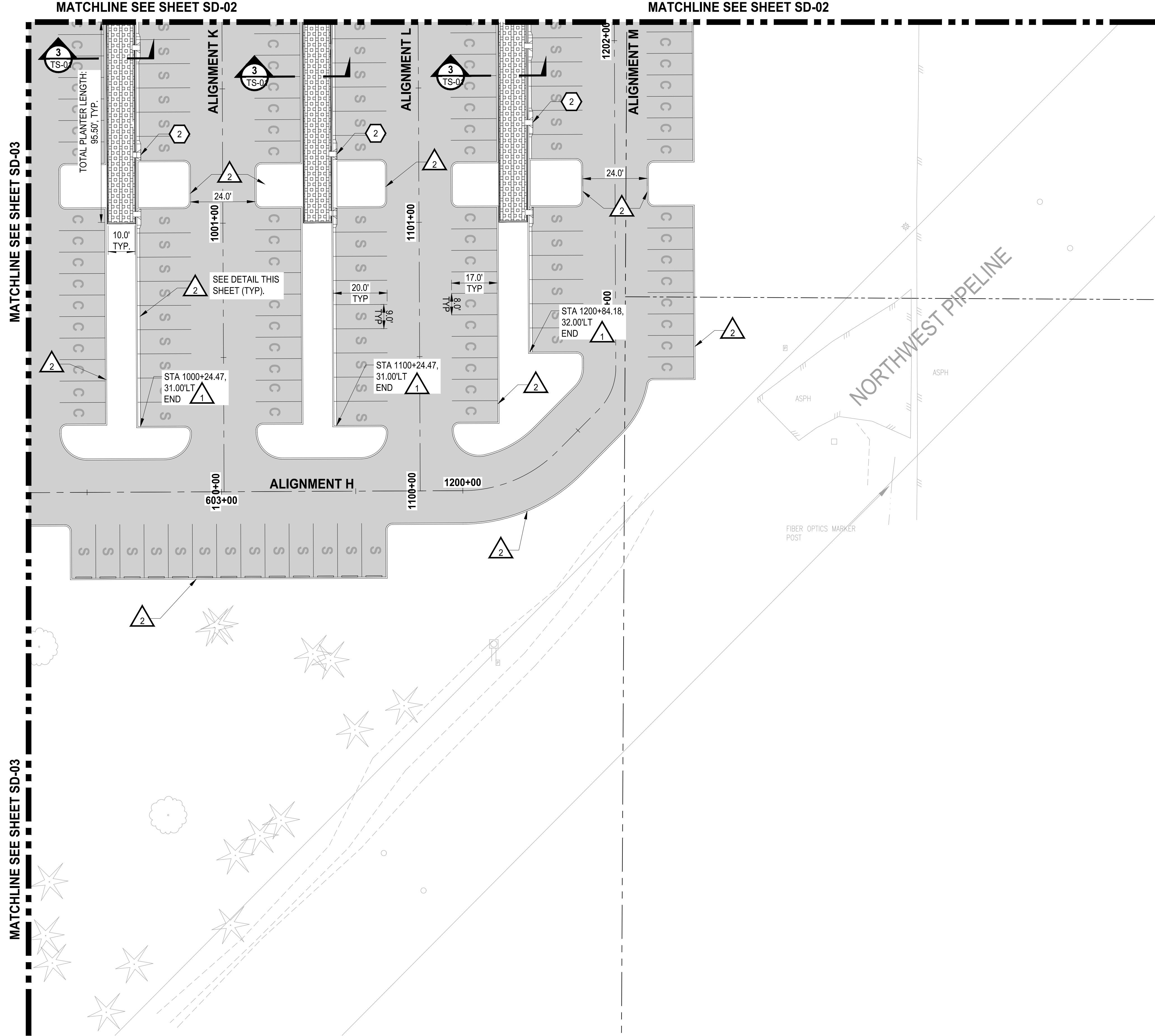
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FILE NAME
04-PS0731200C-SD-HS

JOB No.
217-7312-004

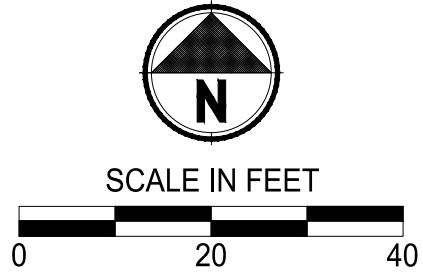
DATE
JULY 2022

U:\P\SD\Projects\Clients\217-7312-004-SH&T\Parking\Expansion\995\va\CA00.DWG PLOTTED BY: petrus DATE: Thursday, July 28, 2022 11:39:06 AM LAYOUT: SD-04



City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



APPROVED

BY: *[Signature]*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE: 08/26/2022

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.

- LEGEND:**
- PROPERTY LINE
 - ROADWAY CENTERLINE
 - DEPRESSED CURB PER WSDOT STD PLAN F-10.12-04
 - CURB AND GUTTER PER WSDOT STD PLAN F-10.12-04
 - CONCRETE WALL
 - ASPHALT SURFACE
 - CEMENT CONCRETE SIDEWALK
 - BIORETENTION SOIL MEDIA PER SWMM BMP T7.30
 - STORM DRAINAGE PIPE (SIZE PER PLAN)
 - CATCH BASIN (TYPE PER PLAN)
 - STORM SEWER MANHOLE
 - COMPACT PARKING STALL 8'x17'
 - STANDARD PARKING STALL 9'x20'
 - STANDARD PARKING STALL 9'x20' WITH ELECTRIC VEHICLE CHARGING STATION

- GENERAL NOTES:**
- CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THIS WORK.
 - ALL STORM DRAINAGE STRUCTURES CALL OUT TO CENTER OF STRUCTURE.
 - PIPE LENGTHS ARE FOR CALCULATION PURPOSES ONLY. BID QUANTITIES SHALL BE CALCULATED AS REQUIRED.

- ROADWAY CONSTRUCTION NOTES:**
- INSTALL CURB AND GUTTER, SEE CITY OF PUYALLUP STANDARD NO. 01.02.09 ON SHEET SD-06.
 - INSTALL TRAFFIC CURB, SEE WSDOT STANDARD PLAN F-10.12-04 ON SHEET SD-06.
 - INSTALL 1' WIDE DEPRESSED CURB, SEE WSDOT STANDARD PLAN F-10.12-04 ON SHEET SD-06.
 - INSTALL WHEEL STOP, SEE WSDOT STANDARD PLAN ~~M-17.10-02~~ **M-17.10-22** ON SHEET SD-06.
 - INSTALL SIDEWALK, SEE CITY OF PUYALLUP STANDARD NO. 01.02.01 ON SHEET SD-07.
 - INSTALL PARKING STALL PAINT MARKINGS, SEE WSDOT STANDARD PLAN M-17.10-02 ON SHEET SD-06.
 - INSTALL COMPLETE ADA PARKING STALLS CHANNELIZATION AND SIGNS, SEE WSDOT STANDARD PLAN M-17.10-02 ON SHEET SD-06. ALL SLOPES SHALL BE LESS THAN 2% IN ALL DIRECTIONS.
 - INSTALL CEMENT CONCRETE PARALLEL CURB RAMP, SEE WSDOT STANDARD PLAN F-40.12-03 ON SHEET SD-06.
 - CURB AND GUTTER TO CONTINUE BEHIND TRAFFIC CURB OF LANDSCAPE ISLAND.
 - INSTALL ZURN P12-PGR ANTI-SLIP ADA GRATE OR APPROVED EQUIVALENT PER DETAIL ON SD-07.

- BIORETENTION NOTES**
- THE BIORETENTION SOIL MIX SUPPLIER SHALL CERTIFY IN WRITING THAT THE BIORETENTION SOIL MIX COMPLIES WITH THE PROCESSES, TESTING, AND STANDARDS SPECIFIED BY THE 2012/2014 ECOLOGY MANUAL BIORETENTION SOIL MEDIA SPECIFICATION, BMP 7.30
 - AT THE COMPLETION OF THE BIORETENTION CELLS CONSTRUCTION, THE ENGINEER-OF-RECORD SHALL PROVIDE A WRITTEN STATEMENT TO THE CITY OF PUYALLUP THAT THE BIORETENTION CELLS WERE BUILT PER THE APPROVED DESIGN.

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 - INSTALL CATCH BASIN TYPE I WITH BIORETENTION OVERFLOW OUTLET STRUCTURE, SEE CITY OF PUYALLUP STANDARD NO 02.01.04 ON SHEET SD-07 AND NO.02.07.03 ON SD-07.
 - INSTALL STORM DRAIN CLEAN OUT.

NOTE: SYMBOLS NOT TO SCALE **100 % REVIEW SUBMITTAL**

REVISIONS	DATE	BY	DESIGNED WZG
			DRAWN RLP
			CHECKED DCS
			APPROVED DCS

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217-7312-004

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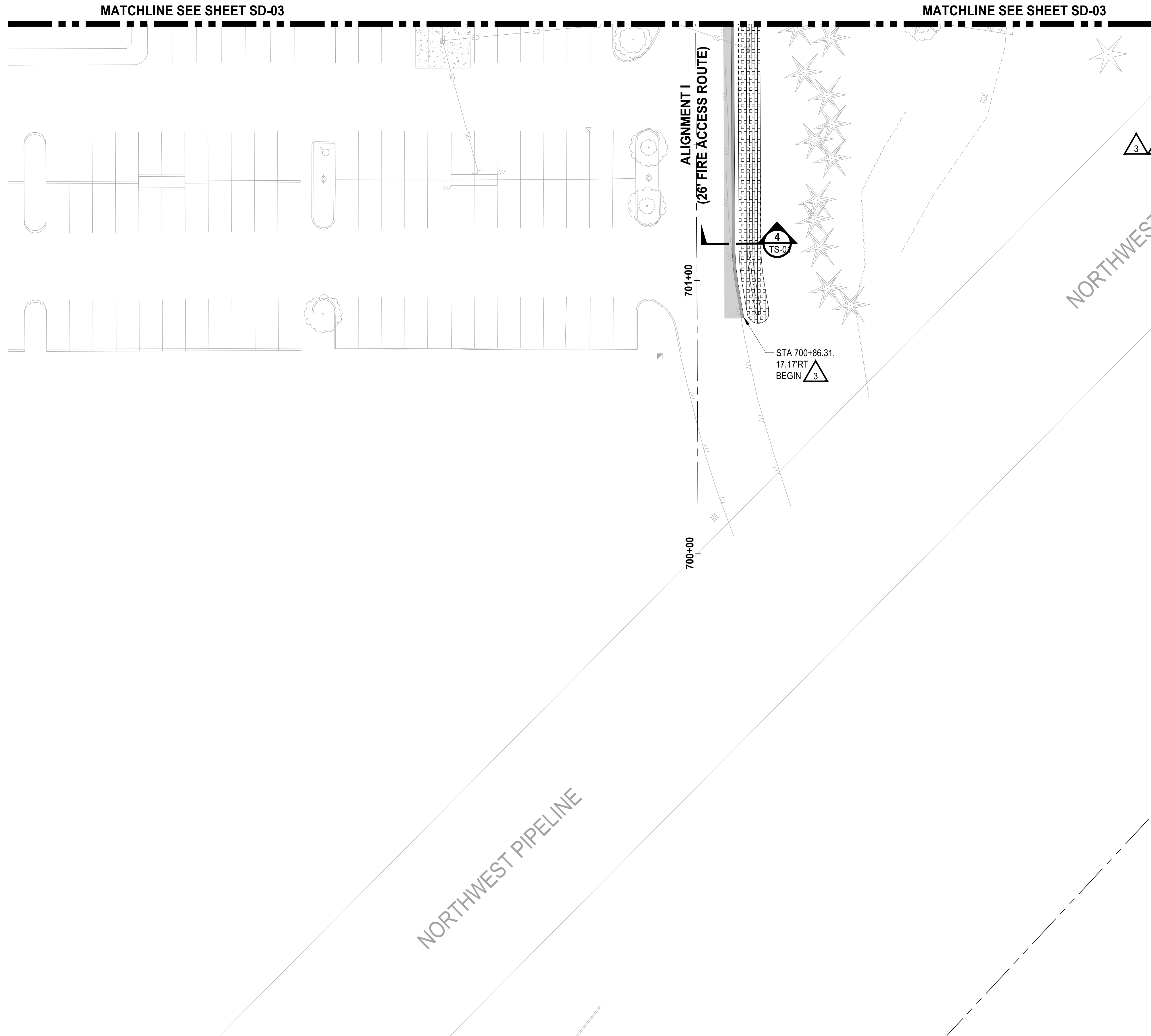
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P 253.604.6600
WWW.PARAMETRIX.COM

PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
PUYALLUP, WA

HARDSCAPE & STORM DRAINAGE PLAN

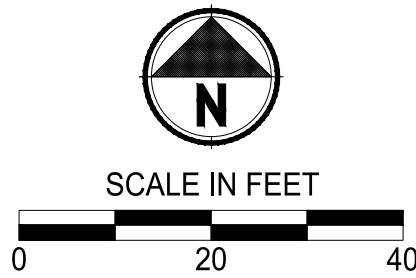
DRAWING NO.
23 OF 58
SD-04

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City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

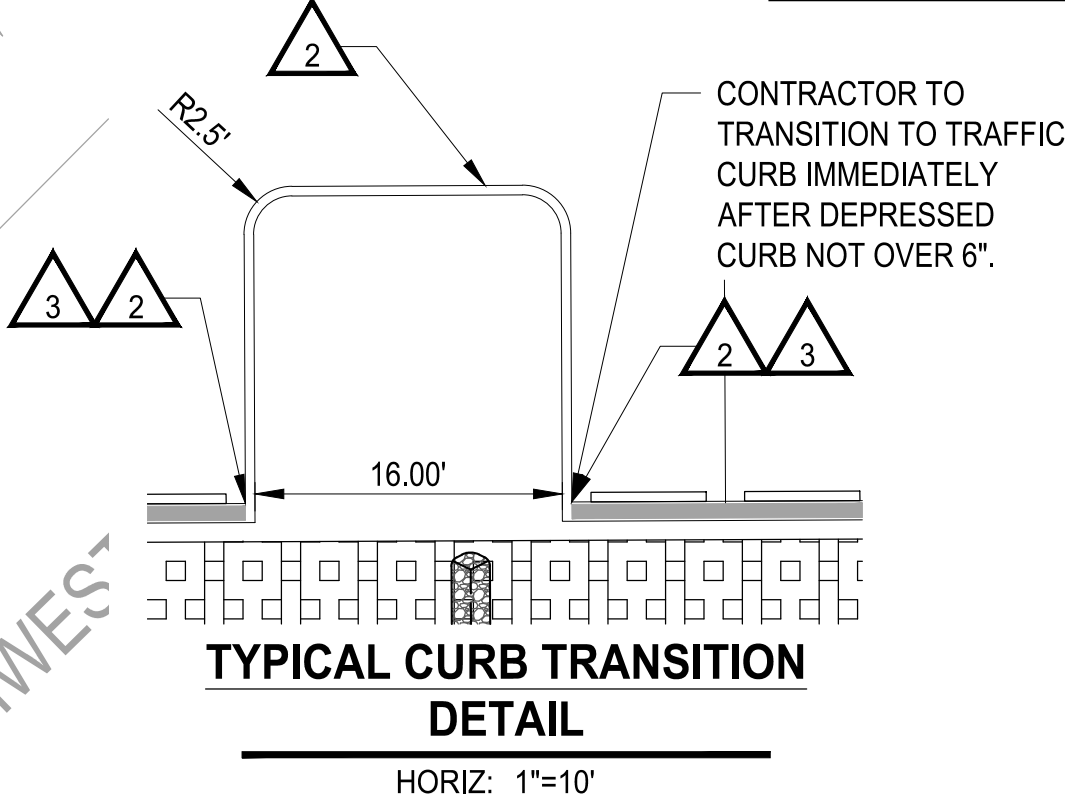


APPROVED

BY: *[Signature]*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE: **08/26/2022**

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 - C - COMPACT PARKING STALL 8'x17'
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NOTE: SYMBOLS NOT TO SCALE

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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
PUYALLUP, WA

HARDSCAPE & STORM DRAINAGE PLAN

DRAWING NO.
24 OF 58

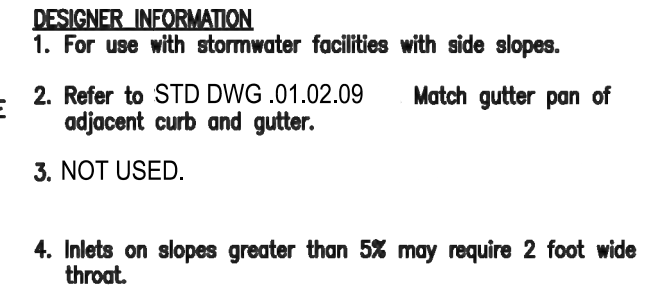
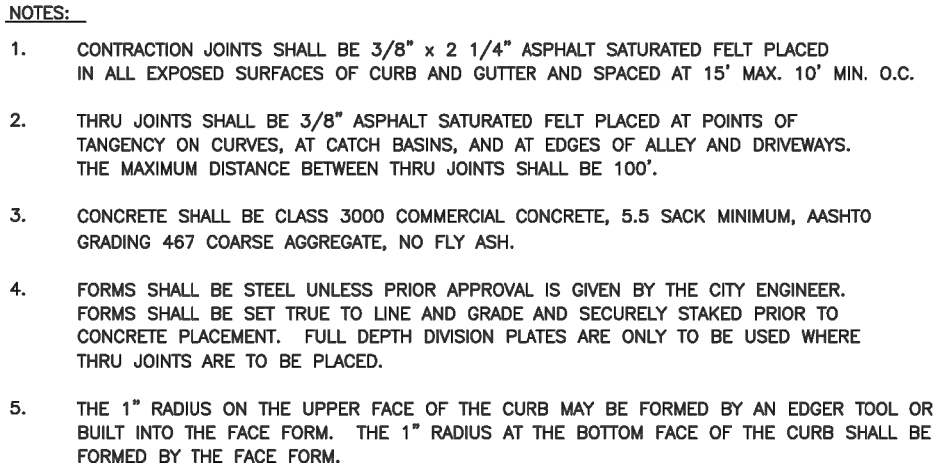
SD-05

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Building	Planning
Engineering	Public Works
Fire	Traffic


 Washington State Department of Transportation

Washington State Department of Transportation

 Washington State Department of Transportation

NO SCAL

100% REVIEW SUBMITTAL

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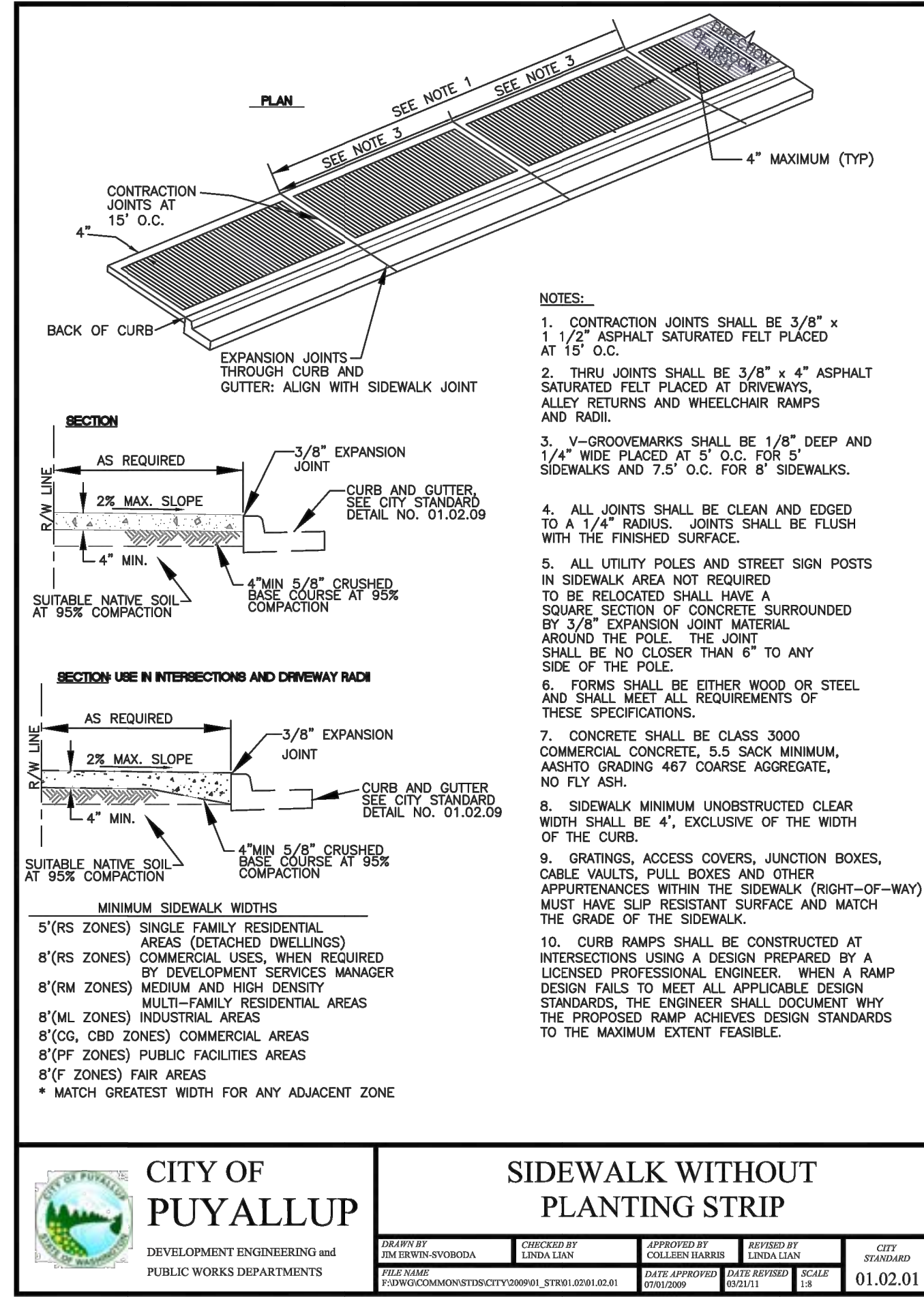
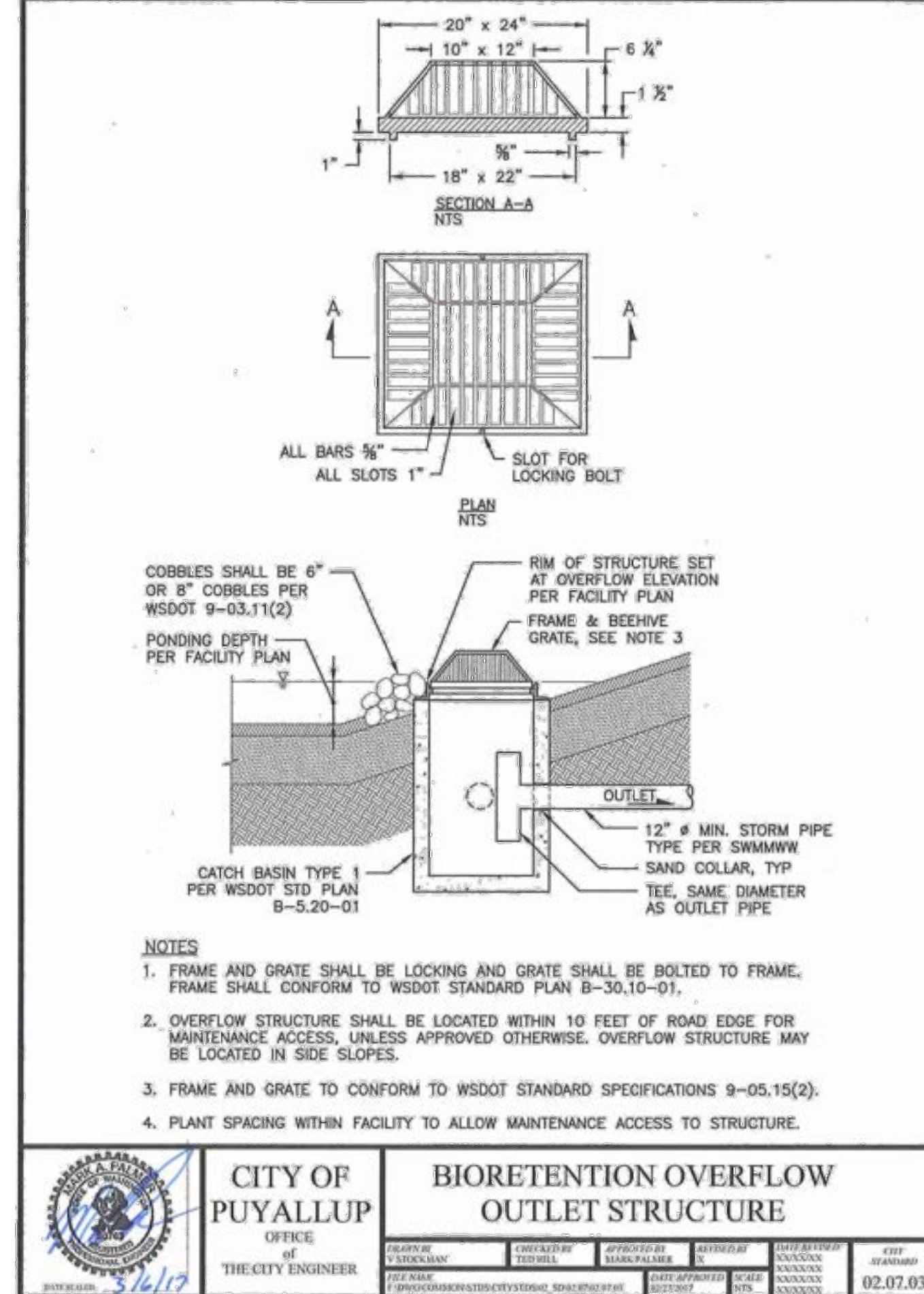
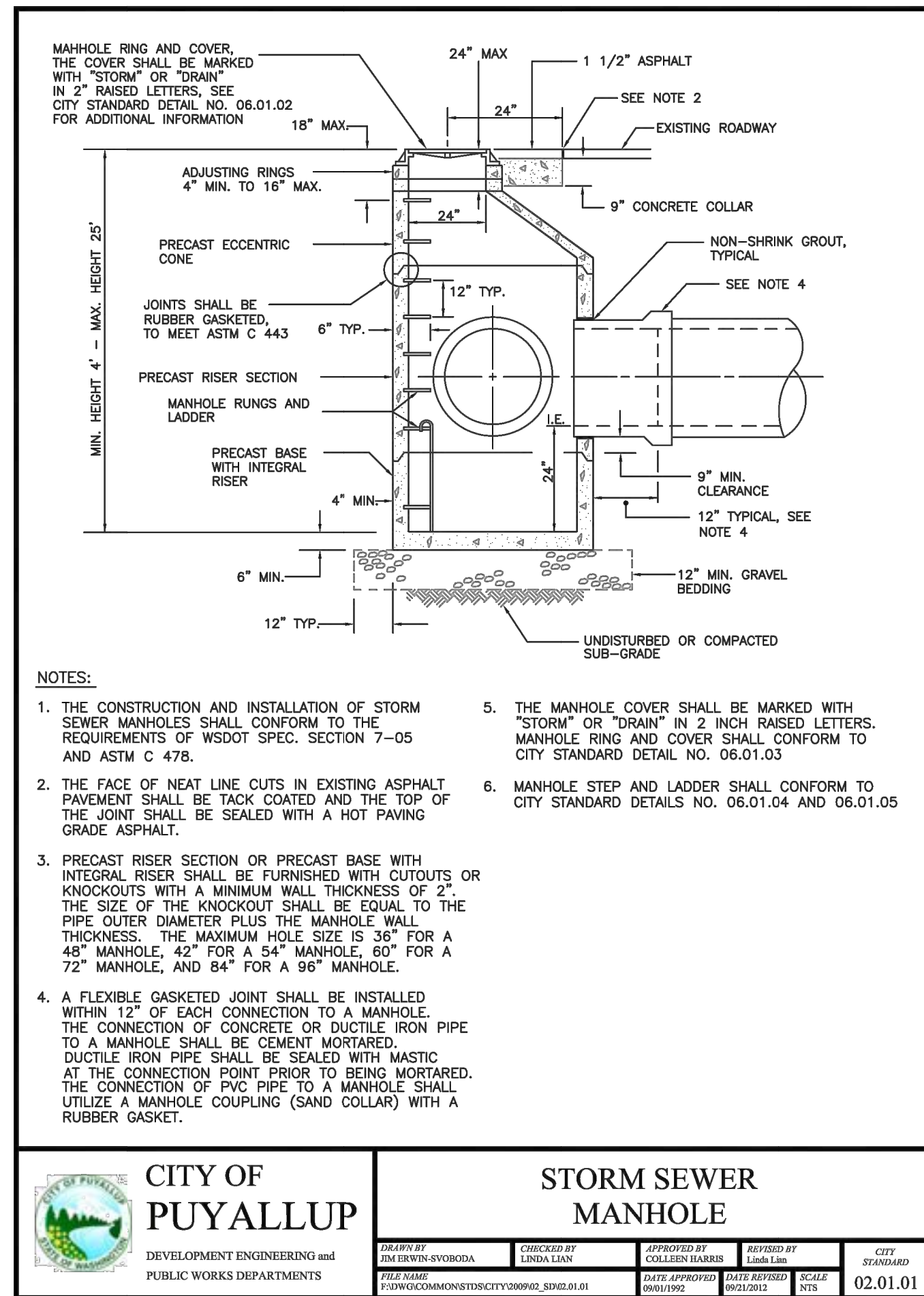
**SOUTH HILL BUSINESS &
TECHNOLOGY CENTER
PARKING EXPANSION**

PUYALLUP, WA

HARDSCAPE STANDARD DETAILS

DRAWING NO.
25 OF 58

SD-06



ZURN®

P12-PGR

12 [305] Wide Galvanized Steel Raised Perforated Anti-Slip ADA Grate

Dimensional data (Imperial and Metric) are subject to manufacturing tolerances and change without notice. Linear [mm], area [ft²]

Please Check ✓	Item No.	Part Number	Item I.D.
<input type="checkbox"/>	31	300572	P12-PGR

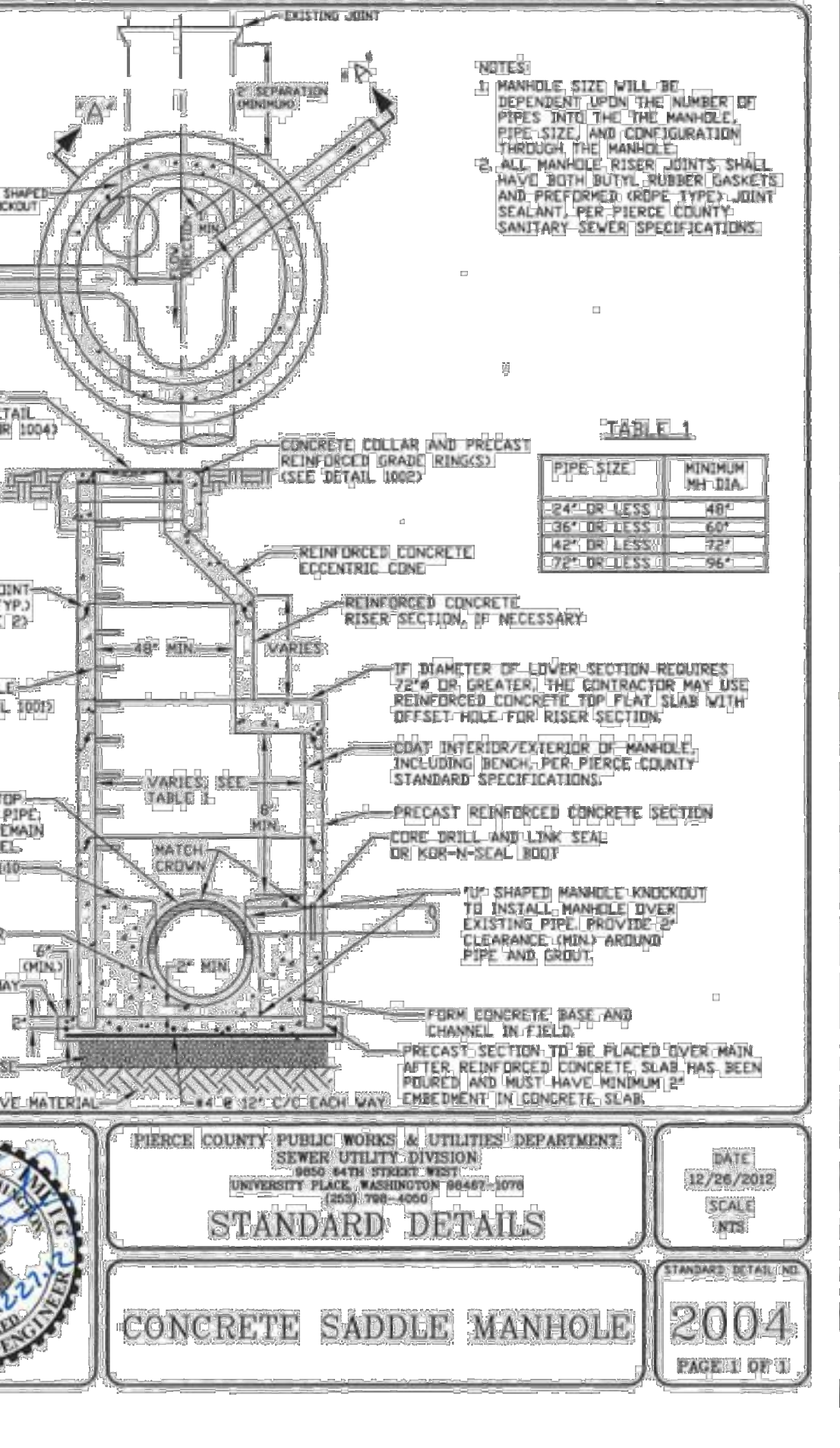
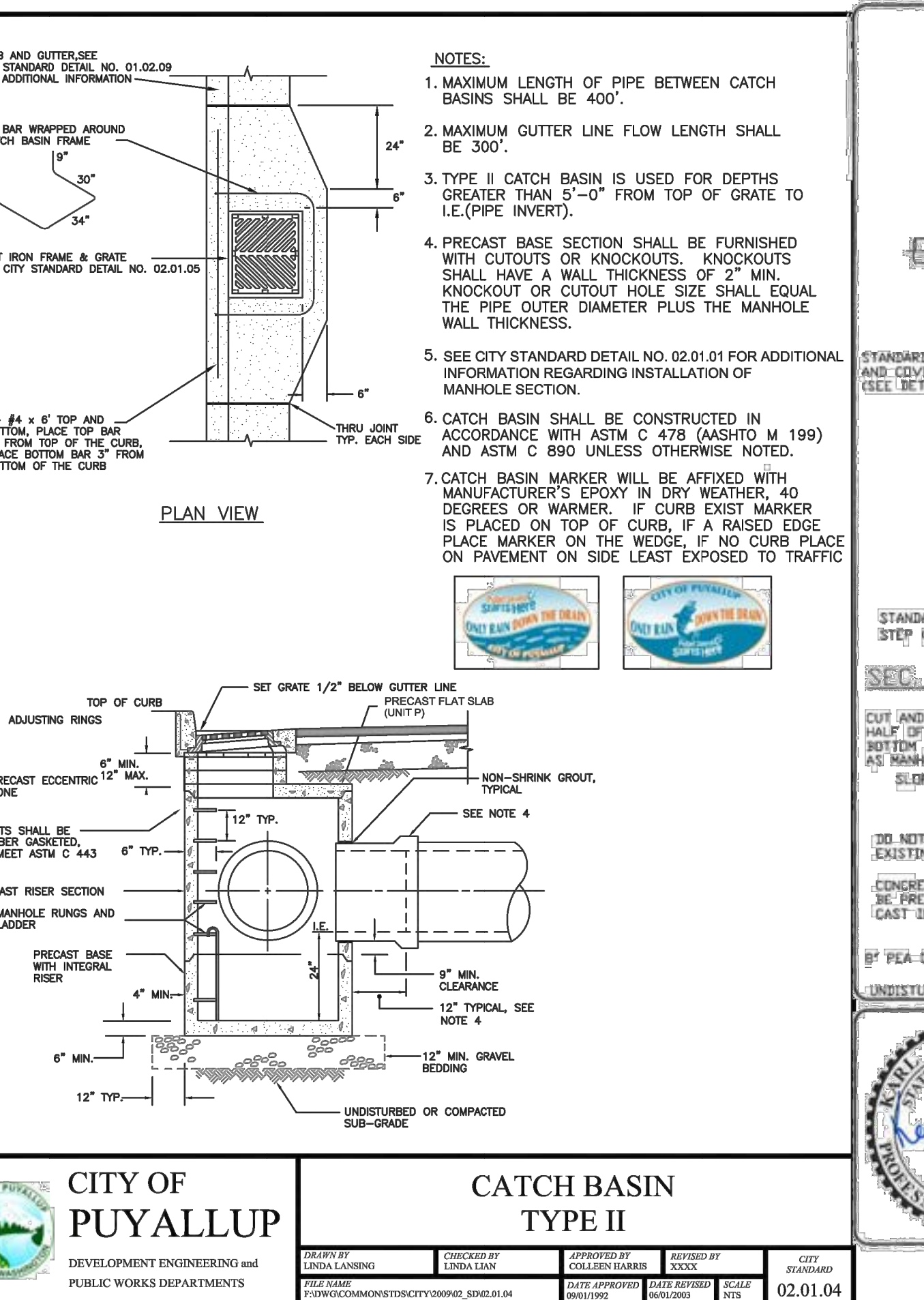
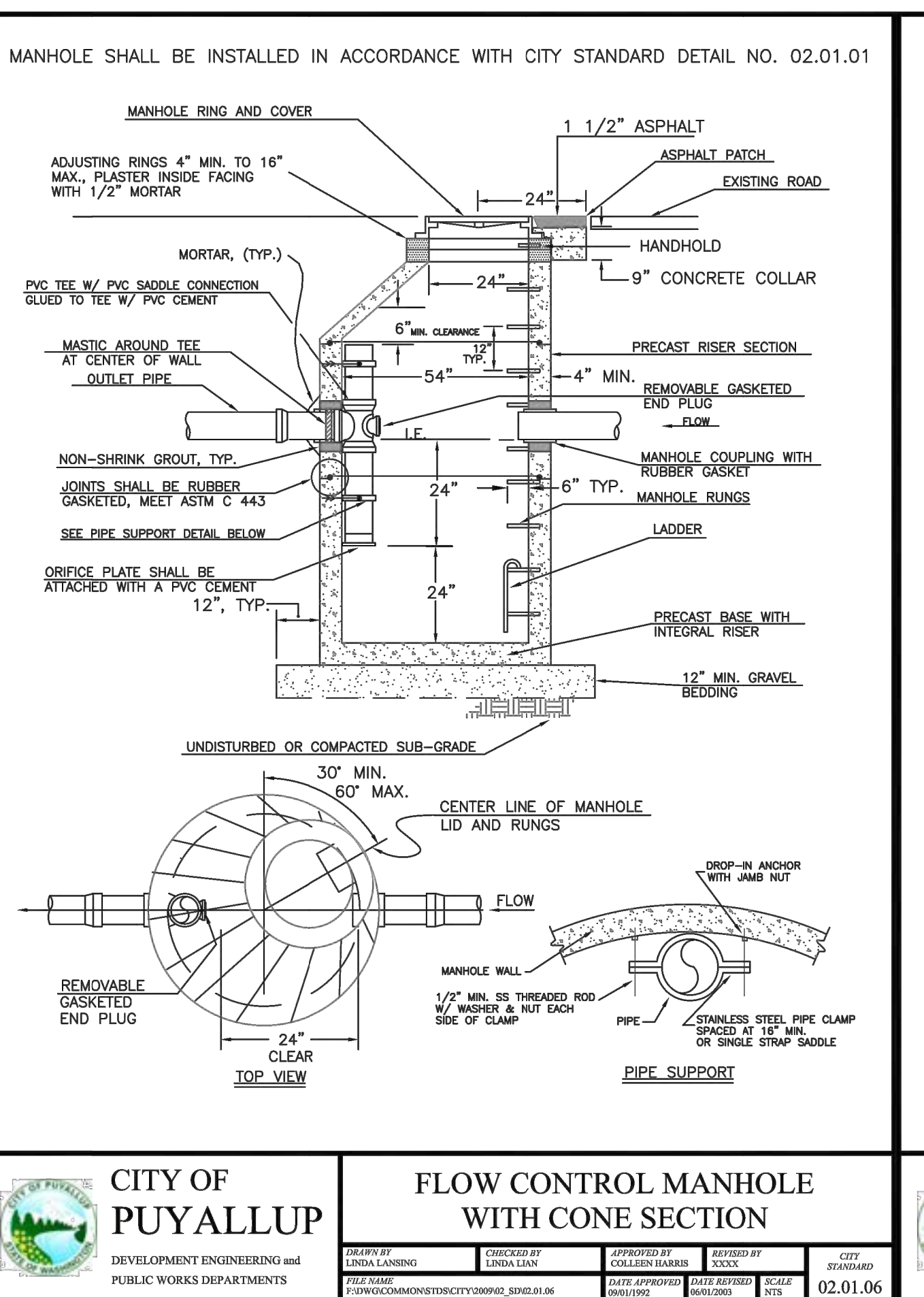
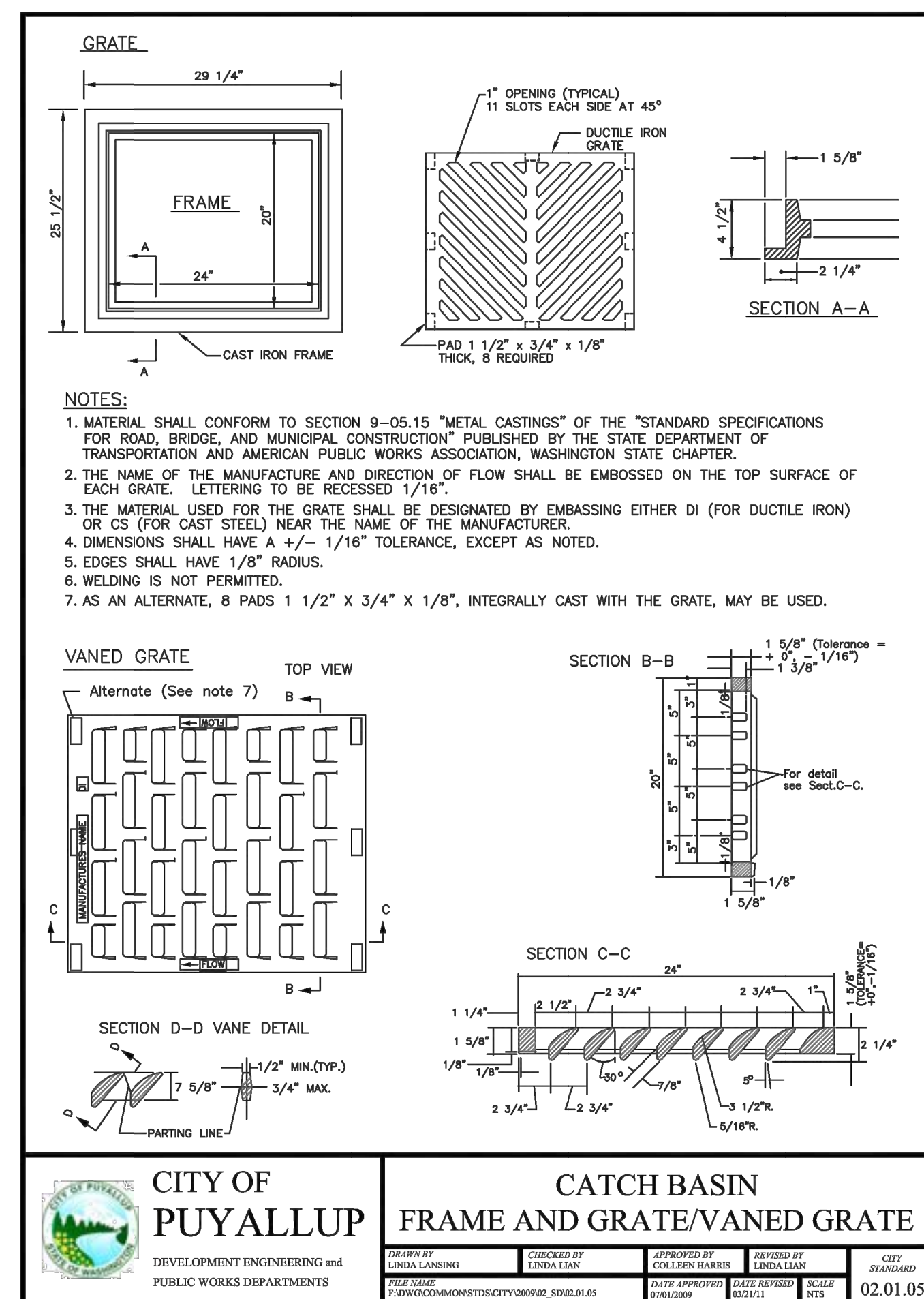
PGR GRATE ENGINEERING SPECIFICATION: The Zurn P12-PGR Galvanized Steel Raised Perforated Grate, is 11-3/8" [289mm] wide X 24" [610mm] long per linear foot [10kg/m]. The grate has an open area of 14.9 in² per linear foot [315 cm²/m]. ANSI Rating of Light-Duty, and ADA Compliant. Galvanized steel conforms to ASTM Sheet conforms to ASTM Specification A653, Galvanized Coating designation G60, min.

PGR - Raised Perforated
Material: Galvanized Steel
DIN Rating: Class A
Weight: 7.0 lbs/ft. [10 kg/m]
Open Area: 14.9 in²/ft. [315 cm²/m]
ANSI Rating: Light-Duty
Application: Heel-Proof & Pedestrian
Slot Width/Hole Size: 1/4 [6]
ADA: Yes
H-20: No
FAA: No

Zurn Industries, LLC | Light Commercial Plumbing Products
 1801 Pittsburgh Avenue, Erie, PA, U.S.A. 16502 • Ph: 814-654-7929, Fax 814-454-7929
 In Canada | Zurn Industries Limited
 5544 Nashua Drive, Mississauga, Ontario L4V 1L2 • Ph: 905-405-8272, Fax 905-405-1292

www.zurn.com

Rev. AA	Date: 01/11/18
C.N. No. 133393	Form # FT649



LEGEND

- LOW PERENNIALS/
GROUND COVERS
- LARGE SHRUBS/
DECIDUOUS TREES
- SHRUBS
- HERBACEOUS
PERENNIALS/
SMALL SHRUBS
- EMERGENTS
- HERBACEOUS
PERENNIALS
- FERNS

SECTION A-A
NTS

OVERFLOW
STRUCTURE
SEE NOTE 2

TOP OF FREEBOARD
MAXIMUM PONDING
LEVEL
SEE BIORETENTION
SECTION DETAIL
02.07.01

STREET
SIDEWALK

ZONE 3
ZONE 2
ZONE 1
ZONE 2
ZONE 3

LANDSCAPE/LAWN PER PLAN
EDGE OF WOOD CHIP
MULCH AREA AND
LANDSCAPE EDGING
MATERIAL
TOP OF FREEBOARD

ZONE 3 - UPPER SIDE
SLOPE, ABOVE PONDING
LEVEL, DRIEST PORTION
OF THE FACILITY

ZONE 2 - LOWER SIDE
SLOPE, PLANTS MUST
TOLERATE OCCASIONAL
STANDING WATER

ZONE 1 - RAIN GARDEN
FLAT BOTTOM AREA, WETTEST
PORTION OF THE FACILITY

NOTES

1. FOR GUIDANCE ON PLANTS
FOR EACH ZONE AND FOR
EXAMPLE PLANTING PLANS
SEE THE RAIN GARDEN
HANDBOOK FOR WESTERN
WASHINGTON AND REFERENCE
PLANT EXCLUSION LIST SECTION
(DESIGN STANDARD 600.X).
2. KEEP PLANTS CLEAR OF INLET,
OUTLET AND OVERFLOWS.
3. PLANTING ZONE PLAN SUBMITTED
FOR REVIEW SHALL DEPICT
PLANTS AT MATURE SIZE.
4. DISTRIBUTION OF PLANT TYPES
SHALL NOT EXCEED 25%
RHIZOMATOUS/SPREADING PLANT
TYPES.

SEE NOTE 2

**PLANT
NTS**

18" OR 24" MIN
SEE NOTES 1 & 2

CEMENT
TRAFFIC
CURB &
GUTTER

STREET

6"

TRANSITION ZONE,
SEE NOTE 1

MAX SIDE SLOPE 3:1

SEE NOTES 3 AND 4

2% MAX

TOP OF BANK
ELEVATION

ADJACENT SLOPE
WITH PLANTINGS

FREEBOARD
SEE NOTE 8

OVERFLOW STRUCTURE, PER STD. PLAN
OSI-13 UNLESS SPECIFIED OTHERWISE
RIM SET AT TOP OF PONDING, SEE NOTE 9

12" MAX

PONDING DEPTH

2% MAX

1" SIDEWALK

TRANSITION ZONE,
SEE NOTE 1

3" DEPTH WOOD CHIP
MULCH ON SIDE SLOPES
AND BOTTOM

16" MIN. BIORETENTION
SOIL MEDIA (BSM)
THICKNESS TO EXTEND
TO TOP OF PONDING
DEPTH

BSM

BOTTOM WIDTH
VARIES, 1' MIN.

NOTES

- TRANSITION ZONE
 - 1-INCH GRADE CHANGE FROM EDGE OF SIDEWALK, CURB AND/OR OTHER HARD SURFACE.
 - 2% MAX. SLOPE.
- TRANSITION SHALL BE A MINIMUM 18" AND INCLUDED T5.13 AMENDED SOILS PER BMP OR PER NOTE 3.
- 24-INCH MINIMUM REQUIRED WHERE ADJACENT TO PARKING.
- AVOID COMPACTION OF EXISTING SUBGRADE BELOW FACILITY.
- SCARIFY SUBGRADE 3-INCHES MINIMUM BEFORE BIORETENTION SOIL MEDIA INSTALLATION.
- PLANTINGS PER STANDARD DETAIL 02.07.05 AND PLANS.
- BIORETENTION CELLS ADJACENT TO PARKING SHALL BE SPACED TO ALLOW PEDESTRIAN ACCESS TO VEHICLES EVERY 30 FEET, AT MINIMUM.
- SIZING AND DESIGN OF FACILITY PER SWMMWW.
- FREEBOARD DEPTH VARIES (2-INCHES OR 6-INCHES) DEPENDING UPON SIZE OF DRAINAGE FOR FREEBOARD, PONDING AND OVERFLOW DEPTH. SEE SWMMWW.
- OVERFLOW TYPE DEPENDS ON PROJECT DESIGN. SEE STANDARD DETAIL 02.07.03.
- INLET ELEVATION SHALL BE ABOVE FREEBOARD ELEVATION.

ASPHALT SLOPES TOWARD CATCH BASIN

CAST IRON FRAME "I" AND GRATE: SEE CITY STANDARD NO. 02.01.05.

PLAN VIEW

EXISTING ROAD
ASPHALT PATCH
SET GRATE FLUSH WITH ASPHALT
SLOPE 1/2" MAX.
9" CONCRETE COLLAR
MANHOLE COUPLING
I.E.
18" MIN.
GROUT, TYP.
BASE SECTION
6" MIN. GRAVEL BEDDING
UNDISTURBED OR COMPACTED SUB-GRADE

SECTION VIEW

NOTES:

1. MAXIMUM LENGTH OF PIPE BETWEEN CATCH BASINS SHALL BE 400'.
2. TYPE 1 CATCH BASIN IS USED FOR DEPTHS LESS THAN 5'-0" FROM TOP OF GRATE TO I.P.(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 EXCEED 1/2" PER FOOT.
5. CATCH BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C 478 (CASTALO 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 EPOXY PLACE MARKER ON THE SIDE, IF NO CURB PLACED ON PAVEMENT ON SIDE LEAST EXPOSED TO TRAFFIC.

3" HOLE TOPICK
12" 1/2" UNIT "S" (BASE BEHIND)
2-3" HOOP
4" 20" 4" 3-3" HOOP
4" 20" 4" PIPE KNOCKOUTS SEE NOTE 4
1-3" LI 4-3" LI 1-3" LI
5 1/2" 25" 5 1/2" 5 1/2" 18" 5 1/2" BASE SECTION

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 RING SHALL CONFORM TO SECTION R, ASTM C 478 (ASSHTO M-199) AND MEET ALL WISHA REQUIREMENTS. MANHOLE RINGS 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-PAKED, 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 SADDLE 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.

12" OVERFLOW TEE
INLET EL: 481.40'

ELBOW WITH 2.75" ORIFICE PLATE
IE EL: 480.05'

ELBOW WITH 2.50" ORIFICE PLATE
IE EL: 479.15'

18" OUTLET PIPE
IE=476.40'


2.0' MIN. SUMP


18" INLET PIPE
IE EL: 476.50'

1.75" ORIFICE PLATE
ATTACHED WITH PVC CEMENT TO BOTTOM OF TEE

54" STORM SEWER MANHOLE

DEVELOPMENT ENGINEERING MANAGER.


	CITY OF PUYALLUP OFFICE OF THE CITY ENGINEER		BIORETENTION PLANTING ZONES			
	DRAWN BY J. STOKMAYER	CHECKED BY TED HELL	APPROVED BY MARK PALMER	REDESIGNED N/A	DATE APPROVED N/A	CITY ENGINEER CANDACE K. HARRIS




**CITY OF
PUYALLUP**
OFFICE
OF
THE CITY ENGINEER

BIORETENTION SECTION

DRAWN BY V STOCKMAN	CHECKED BY T DEBELL	APPROVED BY MARK PALMER	REVIEWED BY N	DATE REVIEWED XXXXXX/XX/XX	DATE 02.07.00
THE NAME OF THE SUBMITTER CITY OF PUYALLUP, CITY ENGINEER, MARK STOCKMAN		DATE APPROVED N		DATE REVIEWED N	

 CITY OF PUYALLUP DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	CATCH BASIN TYPE 1 (AREA DRAIN)				CITY STANDARD <div style="border: 1px solid black; width: 50px; height: 50px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> 02.01 </div>
	DRAWN BY LINDA LANSING	CHECKED BY LINDA LIAN	APPROVED BY COLLIER HARRIS	REVISED BY XXXXX	
	FILE NAME C:\PWS\COMMON\STD\B\CITY\020902_32402.B1.d2		DATE APPROVED 04/01/02	DATE TESTED 04/01/02	SCALE NTS

	<h1 style="margin: 0;">CITY OF PUYALLUP</h1>	<h1 style="margin: 0;">FLOW CONTROL MANHOLE NOTES</h1>					
	DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS						CITY STANDARD
		DRAWN BY LINDA LANSING	CHECKED BY LINDA LANSING	APPROVED BY COLLEEN HARRIS	REVISED BY XXXX		
		FILE NAME P:\SWC\COM\HONG\STC\2009\SD21.01.dwg			DATE APPROVED 06/01/09	DATE REVISION 06/01/09	SCALE 1"=20'
							02.01

GENERAL NOTE

1. WALLS OVER 48-INCHES FROM BOTTOM OF FOOTING TO SEPARATE WALL REQUIRE SEPARATE BUILDING PERMIT.

Diagram illustrating the cross-section of a trench or foundation structure, showing various layers and dimensions:

- BACKFILL MATERIAL** (SEE NOTE 3): The uppermost layer, indicated by a cross-hatch pattern.
- PIPE BEDDING MATERIAL** (SEE NOTE 2): The layer directly beneath the backfill, indicated by a brick pattern.
- UNDISTURBED OR COMPACTED SUB-GRADE**: The base layer, indicated by a wavy line pattern.
- Dimensions**:
 - 6" MIN. (Minimum thickness of the bedding material layer)
 - 1/2 O.D. (Half the outside diameter of the pipe)
 - 1/2 O.D. (Half the outside diameter of the pipe)
 - 4" MIN. FOR 27" PIPE AND SMALLER (Minimum thickness of the bedding material layer for smaller pipes)
 - 6" MIN. FOR PIPE LARGER THAN 27" (Minimum thickness of the bedding material layer for larger pipes)

1. TRENCHING SHALL MEET THE REQUIREMENTS OF SECTION 7-08.3(1)A AND 2-06.3(1) OF THE WSDOT SPECIFICATIONS.
2. BEDDING MATERIAL SHALL CONFORM TO 9-03.12(3) GRAVEL BACKFILL FOR PIPE ZONE BEDDING.
3. GRAVEL BACKFILL SHALL CONFORM TO 9-03.12(1)A GRAVEL BACKFILL FOR FOUNDATIONS, CLASS A.

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

12" FLAT FACE GASKETS

MPICO MULTI-TOOL PICKBAR

FRAME AND COVER PLAN VIEW

COVER

GASKET

SECTION A-A

TOP OF FRAME SHALL BE ADJUSTED EVEN WITH ROADWAY SURFACE

SAFETY LOCK AT 90°

FULLY OPENED AT 120°

FRAME AND COVER OPENING

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

12" LETTERING HAND POCKET (12" X 4")

PICK HOLE (12" X 4")

FRAME AND COVER PLAN VIEW

COVER

GASKET

SECTION A-A

TOP OF FRAME SHALL BE ADJUSTED EVEN WITH ROADWAY SURFACE

FRAME AND COVER OPENING

- NOTES:
1. EAST AGRICAN HORN WORKS 24" "ERO" AND OLYMPIC FOUNDRY M91 RING & HINGE FULL-UP COVER ARE PRE-APPROVED PRODUCTS AND SHALL BE USED FOR PUBLIC WORKS INFRASTRUCTURE. ALL OTHERS REQUIRE WRITTEN APPROVAL OF THE ENGINEER PRIOR TO INSTALLATION.
 2. MANHOLE FRAME AND COVER SHOULD NOT BE LOCATED IN PEDESTRIAN PATHWAYS (E.G. SIDEWALKS, CROSSWALKS, ETC.) WHERE EXISTING OR PROPOSED CONDITIONS REQUIRE A MANHOLE FRAME AND COVER TO BE INSTALLED WITHIN A PEDESTRIAN PATHWAY, THE MANHOLE FRAME AND COVER SHALL BE ADA COMPLIANT.
 3. NON-POSSING FIT FOR MANHOLE COVERS.
 4. CASTING TO BE SHOT BLENDED AND FREE FROM SURFACE SAND AND SCALE.
 5. CASTING TO BE SMOOTH, TRUE TO PATTERN, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINK HOLES, WARP, OR ANY OTHER DEFECTS WHICH COULD IMPAIR SERVICEABILITY.
 6. CASTINGS SHALL BE UNCOATED.
 7. FOR STORM APPLICATIONS CAST LETTERS SHALL READ "STORM".
 8. INSTALL FRAME AND COVER IN ROADWAY WITH HINGED SIDE OF ASSEMBLY POINTED TOWARD ONGOING TRAFFIC.
 9. THE CITY SHALL HAVE THE RIGHT TO REQUIRE INSPECTION AND APPROVAL OF ALL CASTINGS PRIOR TO PAINTING.
 10. REPAIR OR DEFECTS BY WELDING, OR BY THE USE OF "SMOOTH-ON" OR SIMILAR MATERIAL WILL NOT BE PERMITTED.
 11. MANHOLES AND COVER SHALL BE FREE OF POROSITY, SHRINK-CRAKES, COLD SHOTS OR CRACKS OR ANY SURFACE DEFECTS WHICH WOULD IMPAIR SERVICEABILITY.
 12. FRAME HEIGHT MAY BE 4" FOR OVERLAYS AND PAVEMENT RECONSTRUCTION PROJECTS, WITH WRITTEN APPROVAL BY THE CITY ENGINEER.

NOTES

1. MANHOLE STEPS AND HANDHOLDS SHALL BE POLYPROPYLENE COATED GRADE 60 REBAR CONFORMING TO ASTM C-478, D-4101, A-815 AND AISI M-199.
2. PREFABRICATED LADDERS SHALL BE MADE OF REBAR AND ENCASED IN POLYPROPYLENE AFTER FABRICATION.
3. STEPS MAY BE INSTALLED:
CAST IN PLACE, OR
DRIVEN INTO PREFORMED HOLES WITH THE CONCRETE CURED TO 3,000 PSI MINIMUM, OR
BY DRILLING TWO ONE INCH DIAMETER HOLES, 3-3/4" DEEP, 13" O.C. APPLY NON-SHRINK GROUT AROUND BAGED JOBS AND DRIVE TO FULL INSERTION

- NOTES**
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 4. PENETRATION OF THE OUTER WALL OF A STRUCTURE WITH A LEG OF A STEP OR LADDER SHALL NOT OCCUR. STEPS AND LADDER RUNGS SHALL BE SPACED AT 12 INCHES AND SHALL BE VERTICALLY ALIGNED.
 5. STEPS, HANDHOLDS, LADDER RUNGS AND FASTENINGS SHALL BE DESIGNED FOR A MINIMUM LIVE LOAD OF 300 LBS AND A PULL OUT FORCE OF 1,000 LBS.
 6. STEPS, HANDHOLDS, AND LADDER PARTS SHALL BE FREE OF SPLINTERS, SHARP EDGES, BURRS OR PROJECTIONS WHICH MAY CAUSE HAZARDS.
 7. REQUESTS TO USE STEPS, HANDHOLDS AND LADDERS MADE FROM NON-CORROSIVE MATERIALS SUCH AS STAINLESS STEEL AND PLASTIC MAY BE ACCEPTED AFTER REVIEW AND APPROVAL BY THE CITY OF GALVESTON. GALVANIZED STEEL WILL NOT BE PERMITTED IN SANITARY SEWER AND STORM SEWER MANHOLES AND STRUCTURES.

	<h1 style="margin: 0;">CITY OF PUYALLUP</h1> <p style="margin: 0;">OFFICE OF THE CITY ENGINEER</p>		<h1 style="margin: 0;">PIPE TRENCHING BEDDING AND BACKFILL</h1>					
	DRAWN BY SUELEWIS-COONDA FILE NAME C:\P\CONTRACT\ATD\TRENCHING\MISC\W060406.dwg	CHECKED BY TED HELL	APPROVED BY MARK PALMER	REVIEWED BY V. GOODMAN	DATE REVISION 06/01/01 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 			


MANHOLE FRAME AND COVER

CITY OF PUYALLUP
OFFICE OF THE CITY ENGINEER

APPROVED FOR PUBLICATION

DATE TO SCALE: 06.01.02

DATE: 06.01.02

 <p>CITY OF PUYALLUP OFFICE OF THE CITY ENGINEER</p>	<p>MANHOLE STEP AND HANDHOLD</p>	
	<p>DESIGNED BY T. BROWN/NOVORDNA</p>	<p>CHECKED BY TED REE</p>
<p>FILE NAME F:\NOVORDNA\CD\1001\1001\1001.DWG</p>	<p>DATE APPROVED 11/11/00</p>	<p>SCALE AS SHOWN</p>
<p>DATE 3/16/02</p>	<p>DATE 11/11/00</p>	<p>DATE 11/11/00</p>

NOTE:
SYMBOLS NOT TO SCALE

100 % REVIEW SUBMITTAL

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P 253.604.6600
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PROJECT NAME

**SOUTH HILL BUSINESS &
TECHNOLOGY CENTER
PARKING EXPANSION**

PUYALLUP, WA

STORM DRAINAGE STANDARD DETAILS

DRAWING NO.
27 OF 58

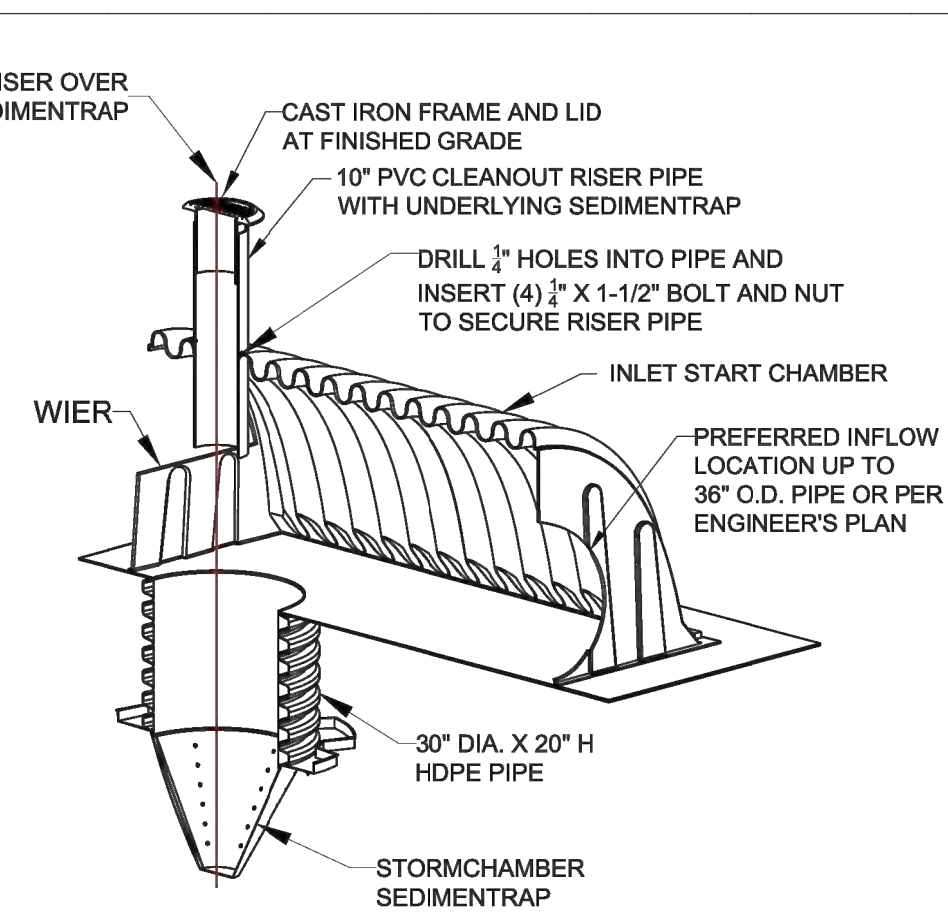
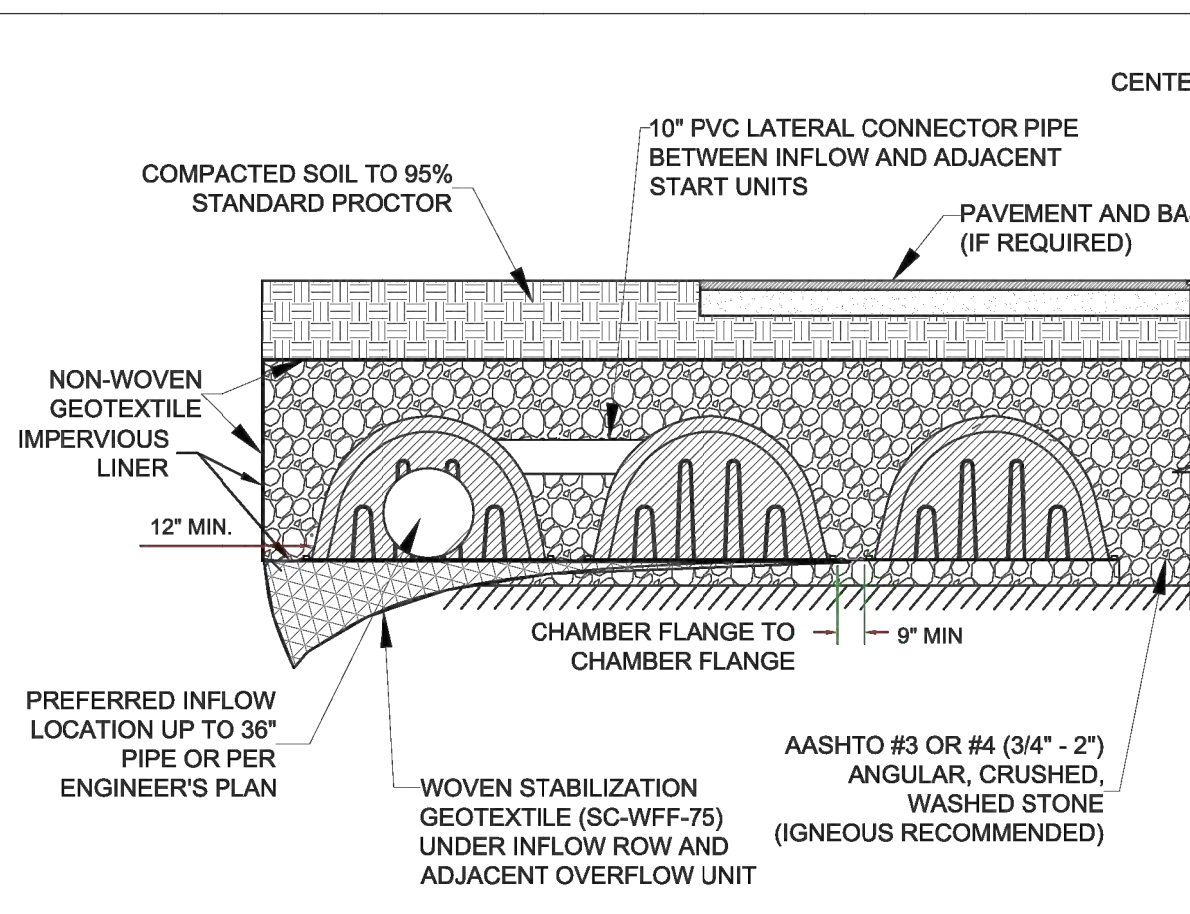
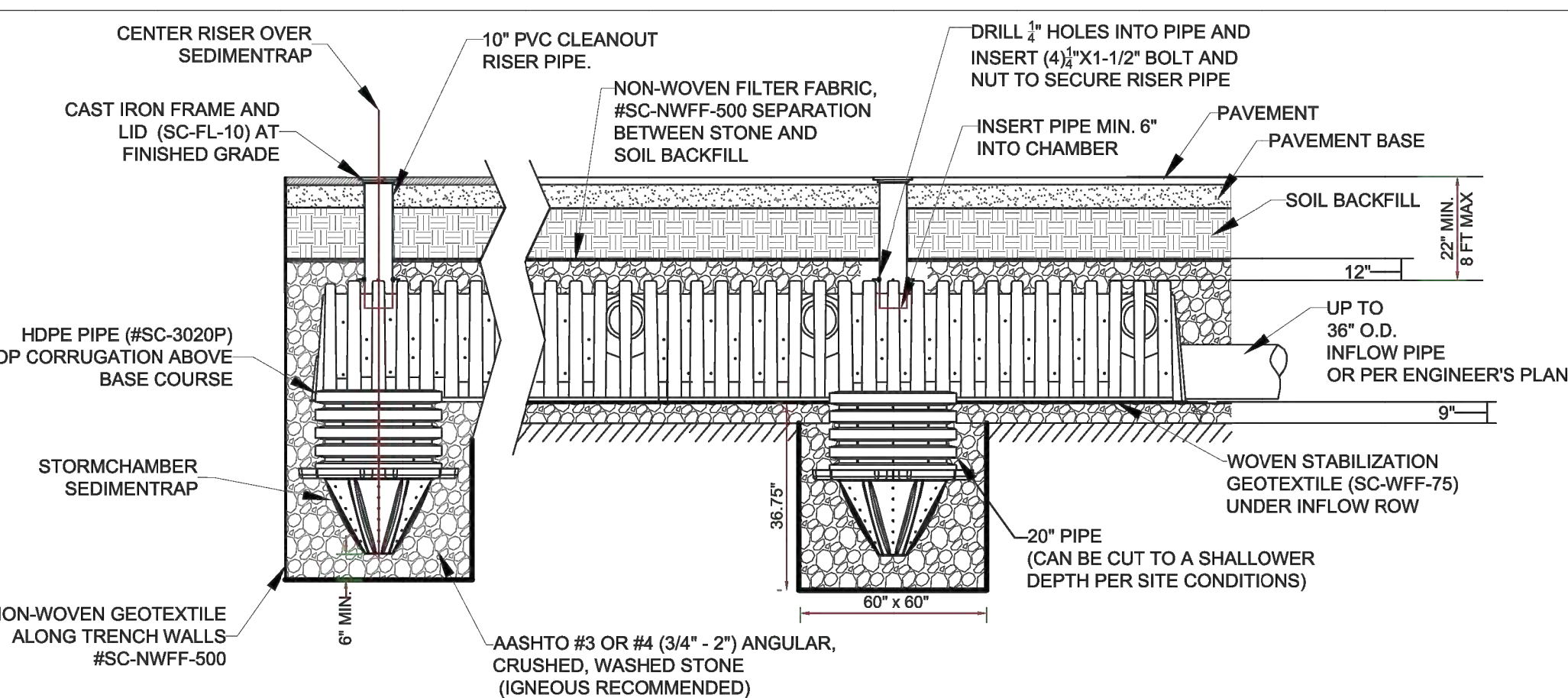
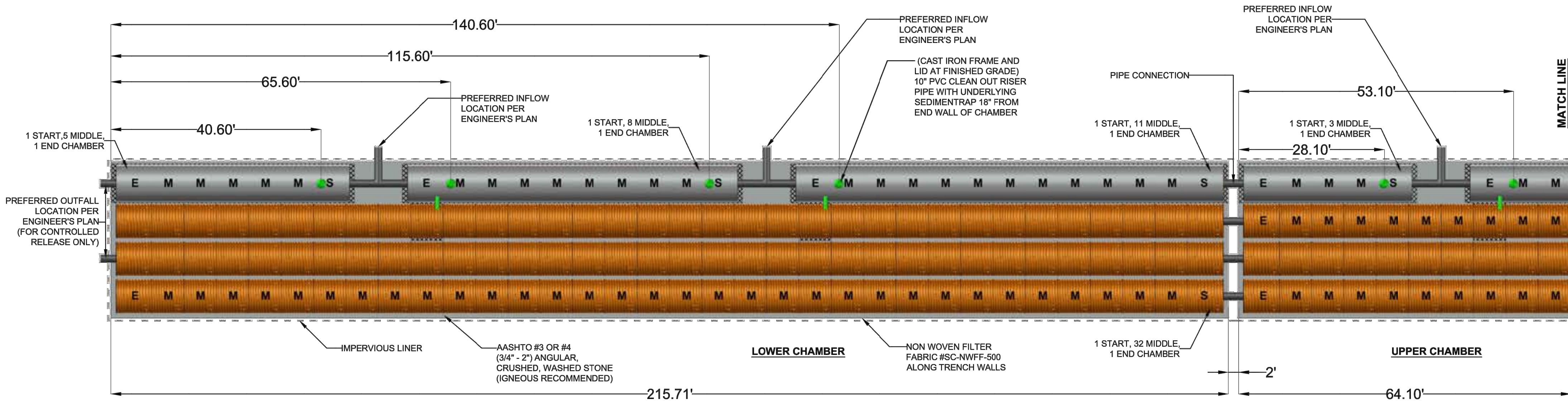
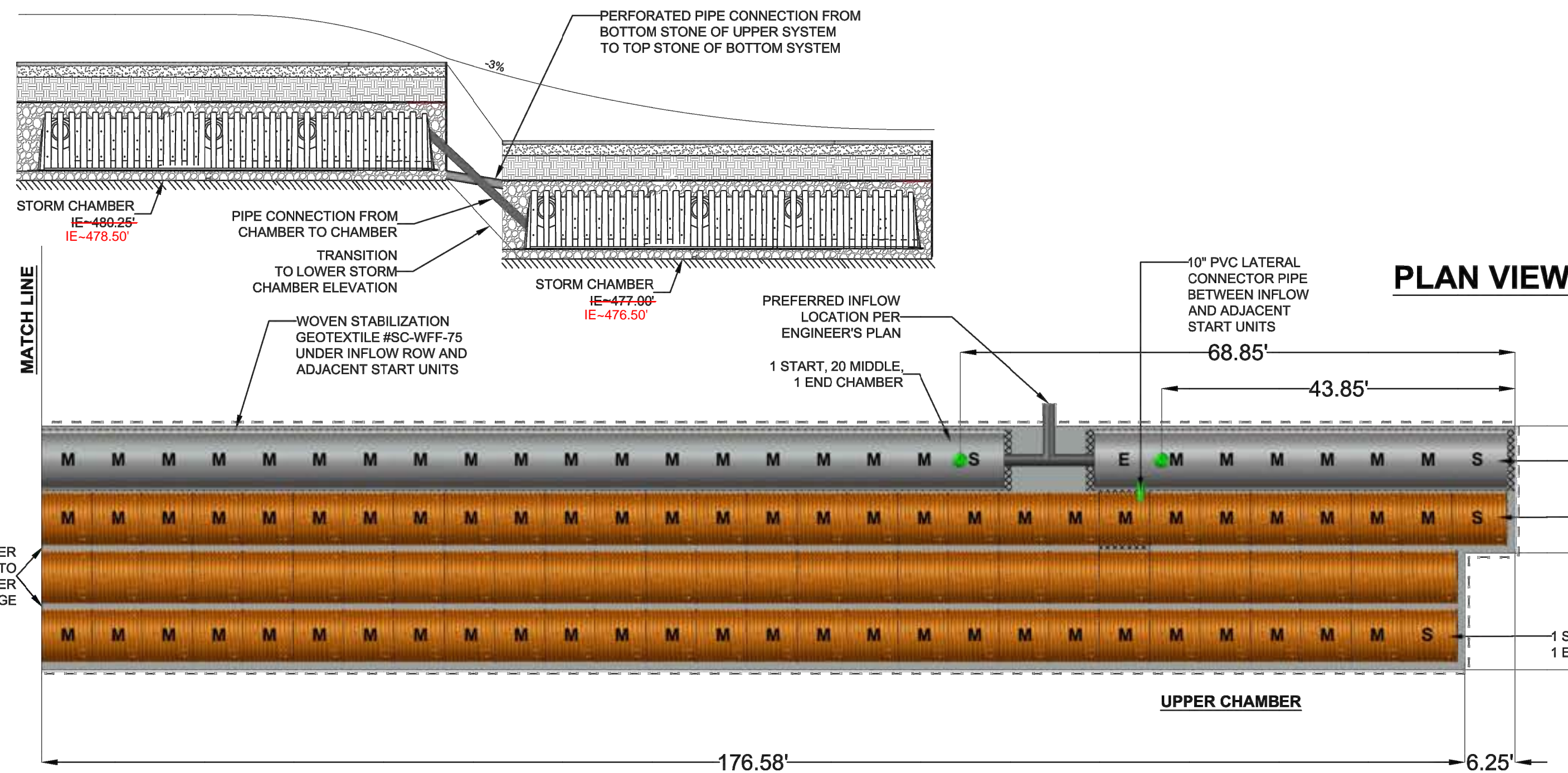
SD-08

▷	REVISIONS	DATE	BY	DESIGNED WZG
				DRAWN RLP
				CHECKED DCS
				APPROVED DCS

**ONE INCH AT FULL SCALE,
IF NOT, SCALE ACCORDINGLY**

FILE NAME
04-PS0731200C-SD-HS
JOB No.
217-7312-004
DATE
JULY 2022

LAYOUT: SD-09
PATH: U:\P50\Projects\City\1312-004-Storm\Drawings\1312-004-Storm.dwg
PLOTED BY: petrus DATE: Thursday, July 28, 2022 11:39:43 AM

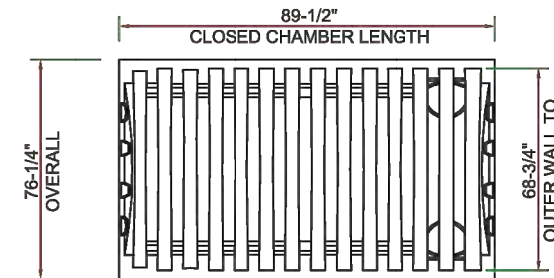


DISCLAIMER

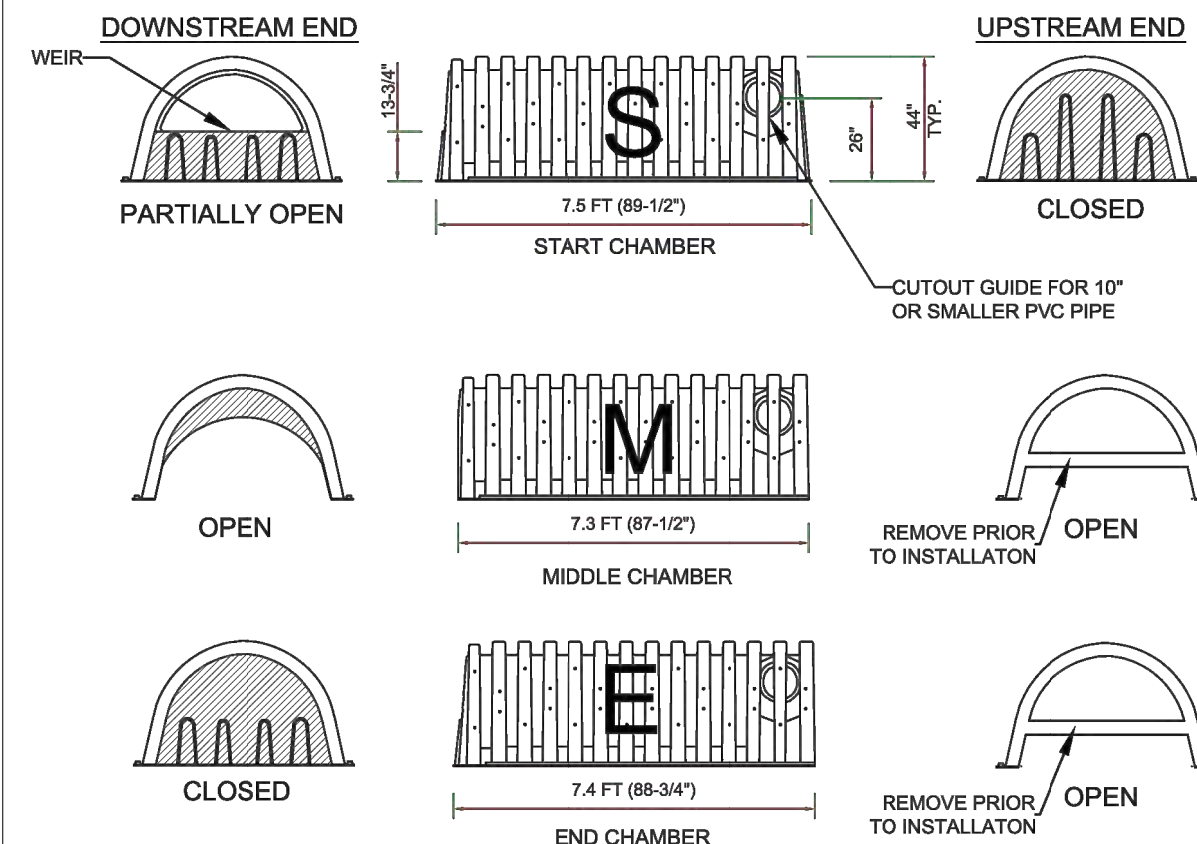
1. VENDOR CUT SHEET PROVIDED AS REFERENCE ONLY.
2. CONTRACTOR TO SUBMIT NEW CUT SHEET FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

SC-44105 DIMENSIONS

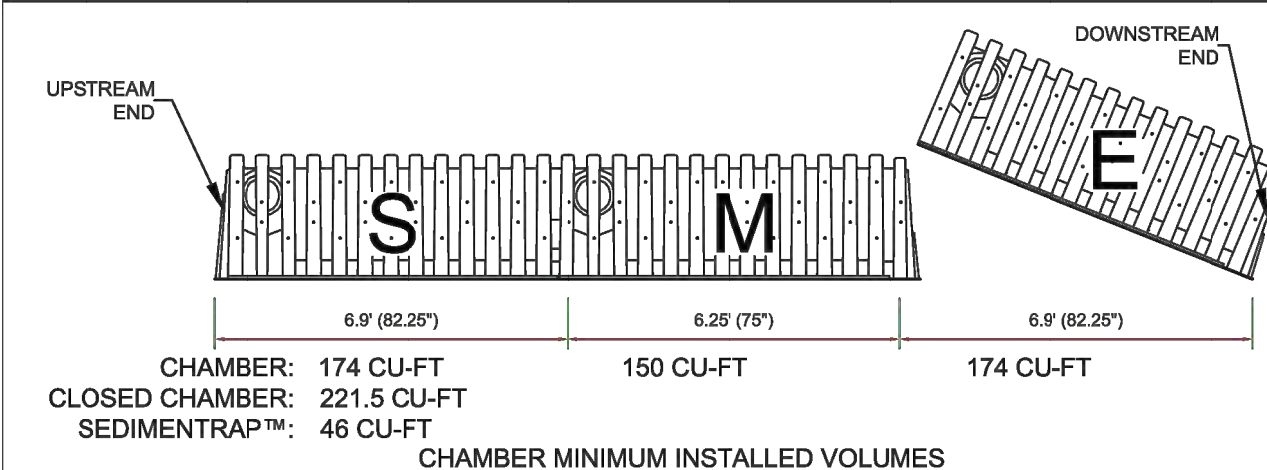
(DIMENSIONS MAY VARY SLIGHTLY)
WEIGHT: 120 LBS EA.



PLAN VIEW



DELIVERY LENGTHS ELEVATION VIEW



- NOTES:
1. START CHAMBERS (CLOSED AT THE SIDE PORTAL END) ARE PLACED AT THE INFLOW END OF THE ROWS.
 2. BEGIN PLACEMENTS WITH START CHAMBERS AND END ROWS WITH END CHAMBERS.
 3. PLACE FIRST RIB OF THE NEXT CHAMBER IN THE ROW OVER THE LAST RIB OF THE PREVIOUS CHAMBER.

INSTALLED LENGTHS ELEVATION VIEW

MATERIAL LIST

DESCRIPTION	STOCK CODE	QTY	UNITS
CHAMBERS AND ACCESSORIES:			
START CHAMBER	SC-44105-S-O	12	EACH
MIDDLE CHAMBER	SC-44105-M-O	258	EACH
END CHAMBER	SC-44105-E-O	12	EACH
CLOSED CHAMBER	SC-44105-C-O	N/A	EACH
SEDIMENTTRAP™	SC-ST	8	EACH
NON-WOVEN GEOTEXTILE	SC-NWFF-500	17	SQ FT
WOVEN STABILIZATION GEOTEXTILE	SC-WFF-75	6	SQ FT
30" X 20" HDPE PIPE FOR SEDIMENTTRAP™	SC-3020P	8	EACH
10" CAST IRON FRAME AND LID	SC-FL-10	8	EACH
MATERIALS BY OTHERS:			
10" DIAMETER RISER PIPE	OTHERS	8	EACH
10" DIAMETER LATERAL PIPE	OTHERS	4	EACH
IN-PLACE EXCAVATION (NO BULKING FACTOR)	OTHERS	2694.26	CU YD
STONE BACKFILL	OTHERS	1736.62	CU YD
1/4" X 1-1/2" NUT AND BOLT	OTHERS	32	EACH
3" SCREWS	OTHERS	32	EACH
IMPERVIOUS LINER	OTHERS	2655.15	SQ YD

PROJECT NAME : PUYALLUP, WA OFFICE PARK
PROJECT LOCATION : PUYALLUP, WA

PROJECT # 1362

DATE: 3/17/2021

REVISION: 2/16/2022

DRAWN BY: ARH



SC-44105 STORMCHAMBER LAYOUT

MEETS OR EXCEEDS ASTM F2922 AND ASTM F2787

NOTE:
SYMBOLS NOT TO SCALE

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REVISIONS	DATE	BY	DESIGNED WZG
			DRAWN RLP
			CHECKED DCS
			APPROVED DCS

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FILE NAME
04-P50731200C-SD-HS

JOB No.
217-7312-004

DATE
JULY 2022



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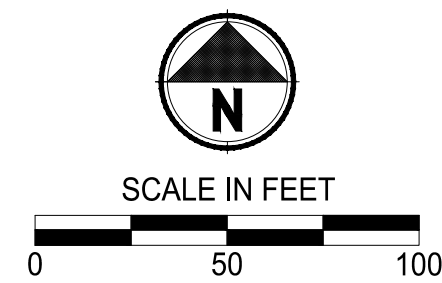
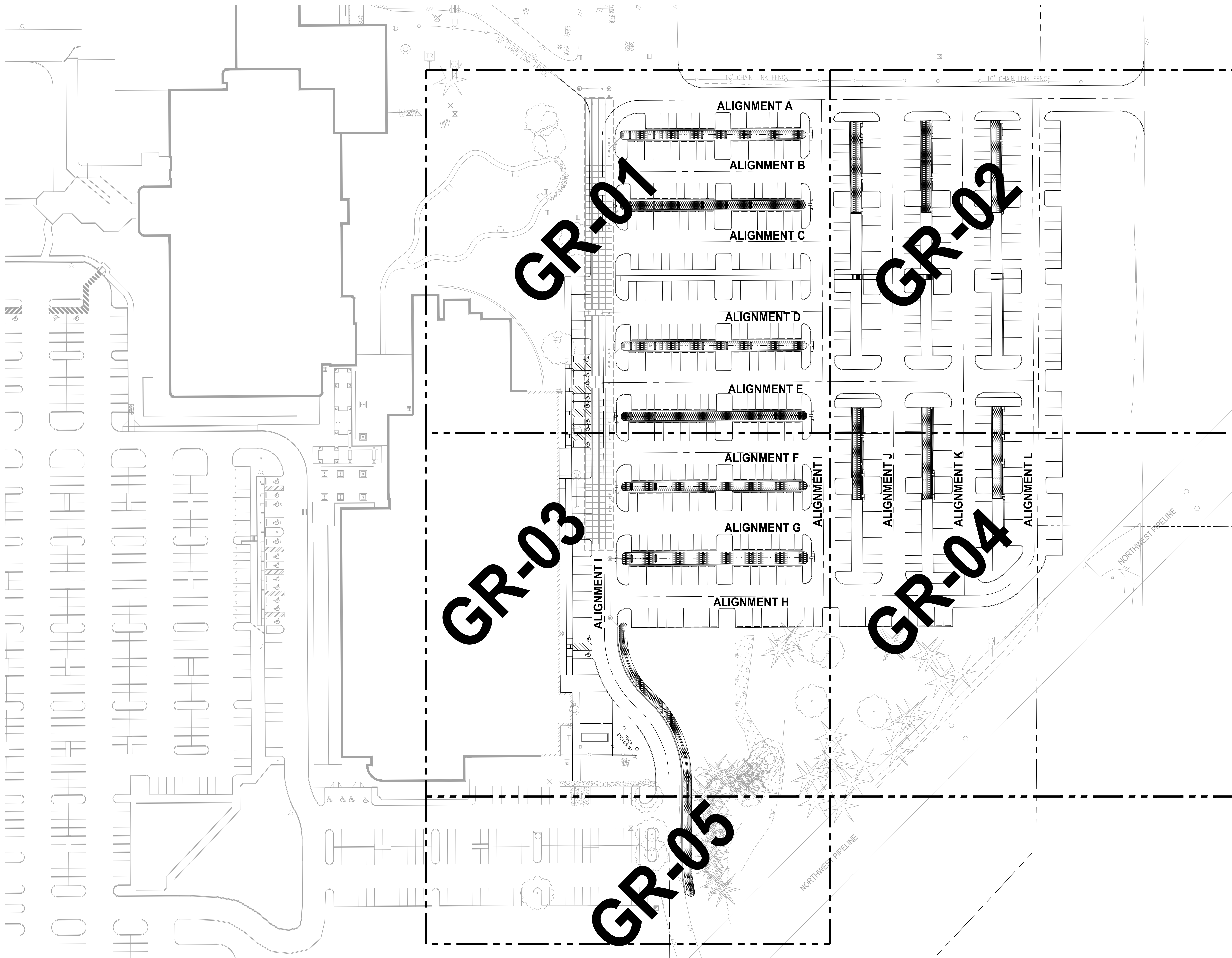
SOUTH HILL BUSINESS &
TECHNOLOGY CENTER
PARKING EXPANSION
PUYALLUP, WA

STORM DRAINAGE STANDARD
DETAILS

DRAWING NO.
28 OF 58

SD-09

U:\P\SD\Projects\Clients\217-7312-004 SHB&TParkingExpansion\995sca\CADD\DWG PLOTTED BY: petrus DATE: Thursday, July 28, 2022 11:40:42 AM LAYOUT: GR-00



APPROVED

BY  CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 08/26/2022

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.

- LEGEND:
- EXISTING MAJOR CONTOUR LINE
 - EXISTING MINOR CONTOUR LINE
 - PROPOSED MINOR CONTOUR LINE
 - PROPOSED MINOR CONTOUR LINE
 - ROADWAY CENTERLINE
 - PROPERTY BOUNDARY
 - CUT LIMITS
 - FILL LIMITS

- GENERAL NOTE:
- CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THIS WORK.
 - CONTRACTOR TO VERIFY ALL EXISTING ELEVATIONS AND GRADES.
 - TYPICAL ROAD SECTIONS ARE SHOWN ON SHEET TS-01.
 - GRADING POINT TABLES ARE SHOWN ON SHEETS GR-15 THROUGH GR-19.
 - INFILTRATION PLANTER WALL HEIGHTS IDENTIFIES DIMENSION FROM BOTTOM OF FOOTING TO TOP OF WALL.

- CONSTRUCTION NOTE:
- SEE SHEET GR-15 FOR STAIR GRADING DETAILS.
 - CONSTRUCT STAIRS AND HAND RAIL PER DETAIL ON SHEET GR-15.

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building

Planning

Engineering

Public Works

Fire

Traffic

NOTE:
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PROJECT NAME
SOUTH HILL BUSINESS &
TECHNOLOGY CENTER
PARKING EXPANSION
PUYALLUP, WA

GRADING PLAN
COMPOSITE

DRAWING NO.
29 OF 58
GR-00

REVISIONS	DATE	BY	DESIGNED WZG
			DRAWN RLP
			CHECKED DMS
			APPROVED DMS

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FILE NAME
05-PSO731200C-GR

JOB No.
217-7312-004

DATE
JULY 2022



Building	Planning
Engineering	Public Works
Fire	Traffic

_____ EXISTING MAJOR CONTOUR LINE
 _____ EXISTING MINOR CONTOUR LINE
 _____ PROPOSED MINOR CONTOUR LINE
 _____ PROPOSED MINOR CONTOUR LINE
 _____ ROADWAY CENTERLINE
 _____ PROPERTY BOUNDARY
 - - - - - C - - - - - C CUT LIMITS
 - - - - - F - - - - - F FILL LIMITS

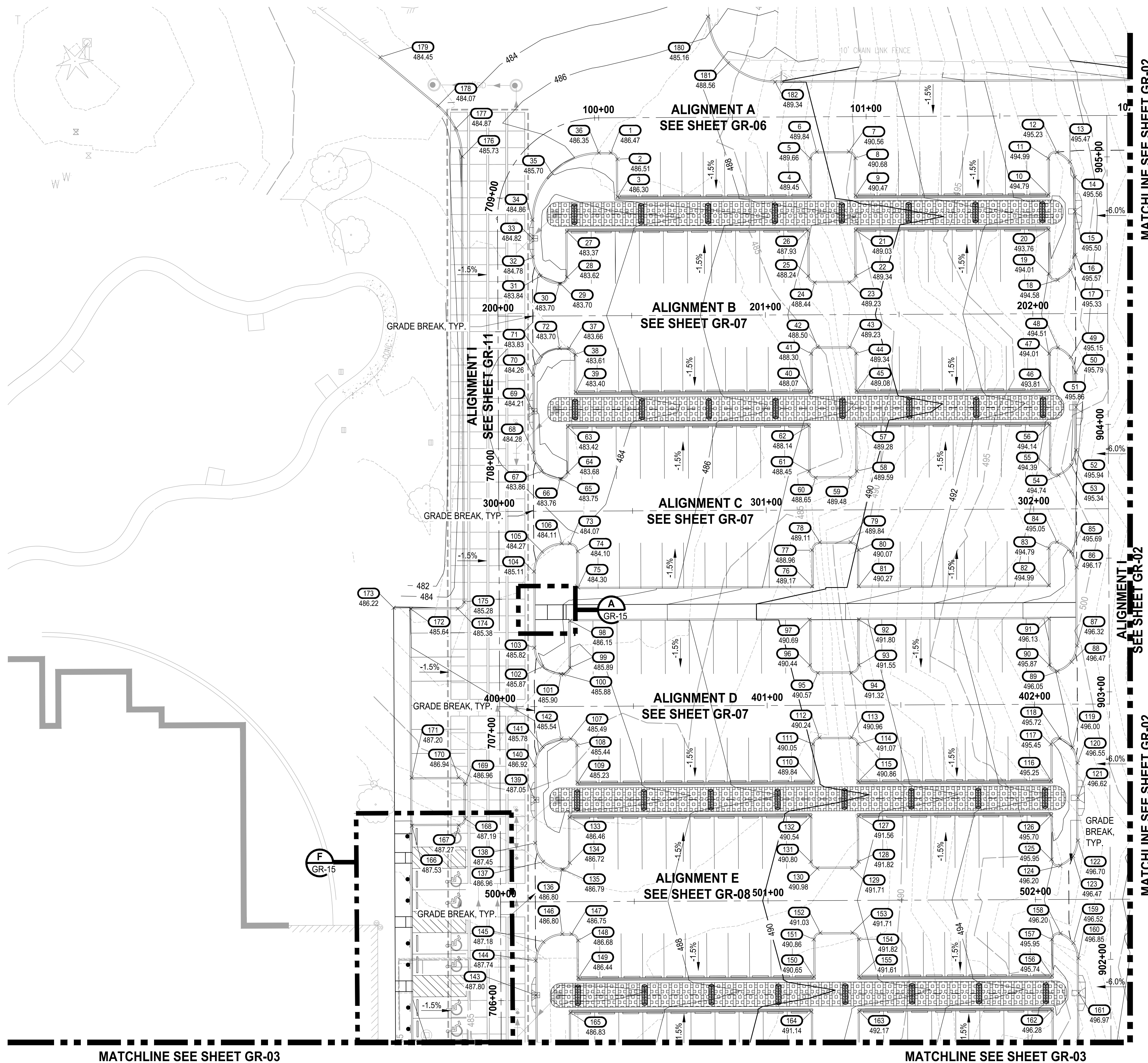
1. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THIS WORK.
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2 CONSTRUCT STAIRS AND HAND RAIL PER DETAIL ON SHEET GR-15.

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GR-01



▷	REVISIONS	DATE	BY	DESIGNED WZG
				DRAWN RLP
				CHECKED DMS
				APPROVED DMS

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FILE NAME
05-PS0731200C-GR
JOB No.
217-7312-004
DATE
JULY 2022



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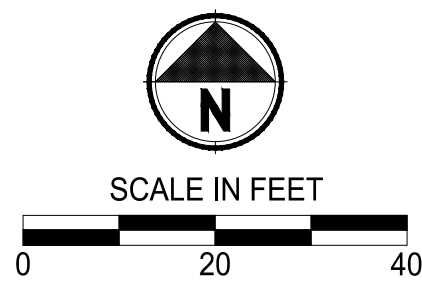
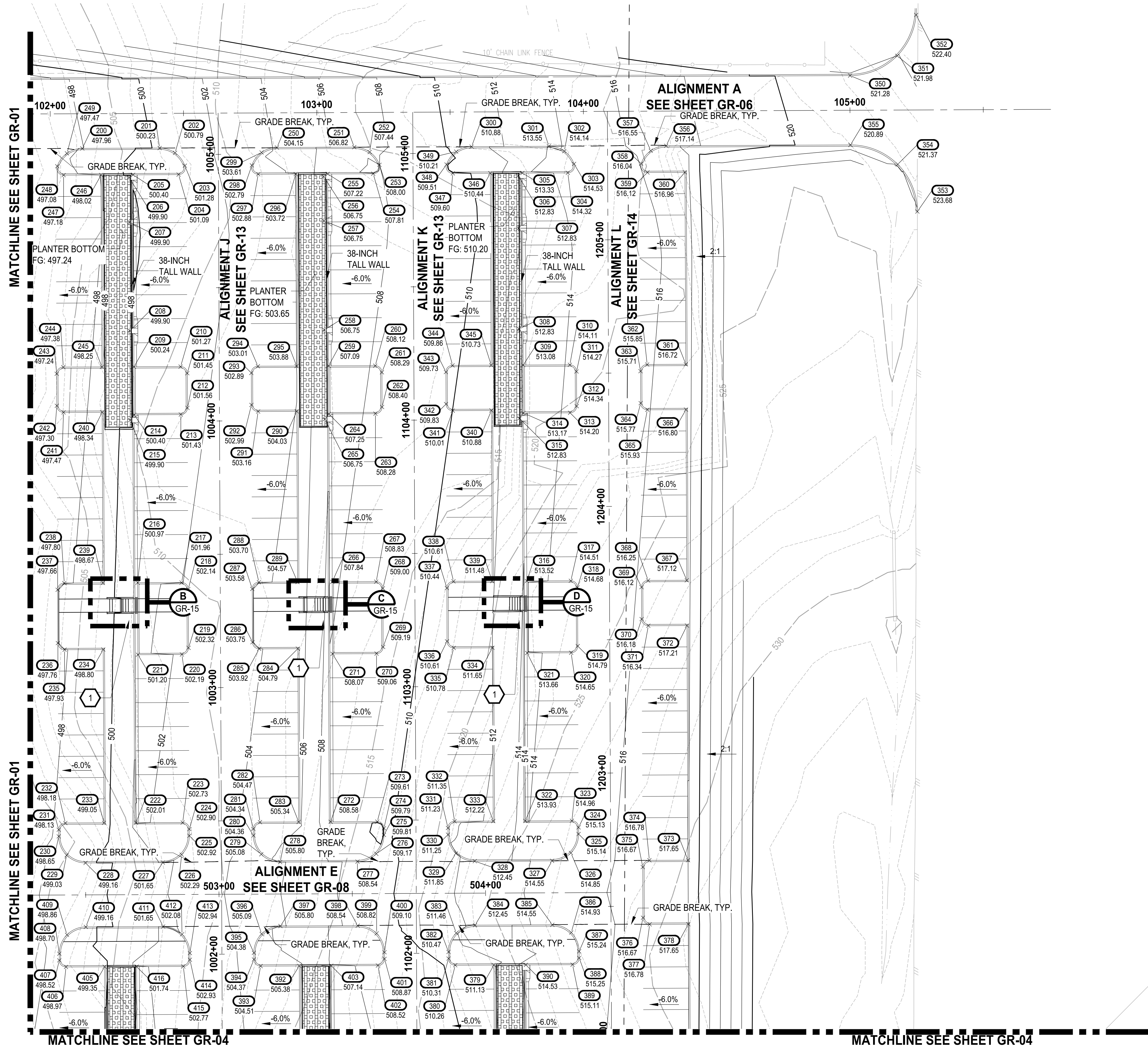
PROJECT NAME

**SOUTH HILL BUSINESS &
TECHNOLOGY CENTER
PARKING EXPANSION**

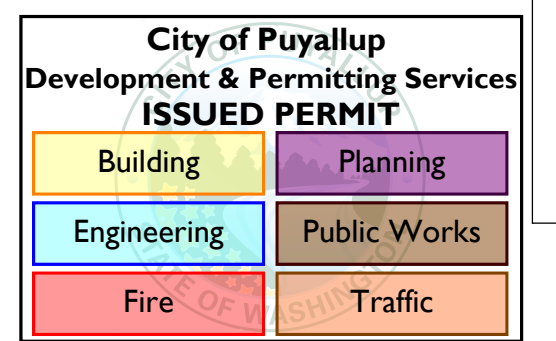
PUYALLUP, WA

GRADING PLAN

U:\PSD\Projects\Clients\217-7312-004_SHB&TParkingExpansion\995sca\CA04.DWG PLOTTED BY: petrus DATE: Thursday, July 28, 2022 11:40:59 AM LAYOUT: GR-02



Know what's below.
Call before you dig.



LEGEND:

- EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- PROPOSED MINOR CONTOUR LINE
- PROPOSED MINOR CONTOUR LINE
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- SEE SHEET GR-15 FOR STAIR GRADING DETAILS.
- CONSTRUCT STAIRS AND HAND RAIL PER DETAIL ON SHEET GR-15.

NOTE:
SYMBOLS NOT TO SCALE

100 % REVIEW SUBMITTAL



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PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
PUYALLUP, WA

GRADING PLAN

DRAWING NO.
31 OF 58

GR-02

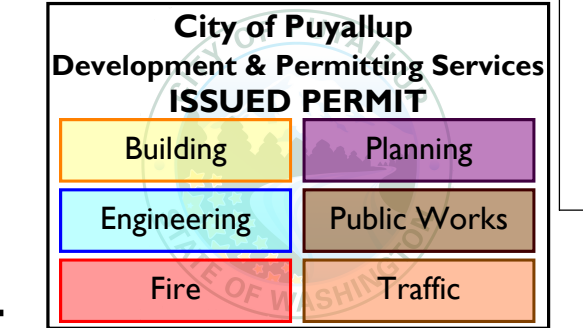
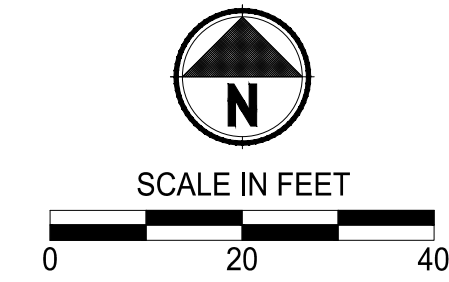
ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY
FILE NAME
05-PSO731200C-GR
JOB No.
217-7312-004
DATE
JULY 2022

REVISIONS	DATE	BY	DESIGNED WZG
			DRAWN RLP
			CHECKED DMS
			APPROVED DMS

U:\P\SO\Projects\Clients\217-7312-004_SHB&TParkingExpansion\995\cadd\CADD.DWG PLOTTED BY: petrus DATE: Thursday, July 28, 2022 11:41:08 AM LAYOUT: GR-03

MATCHLINE SEE SHEET GR-01

MATCHLINE SEE SHEET GR-01



APPROVED
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE: 08/26/2022
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.

LEGEND:

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- TYPICAL ROAD SECTIONS ARE SHOWN ON SHEET TS-01.
- GRADING POINT TABLES ARE SHOWN ON SHEETS GR-15 THROUGH GR-19.
- INFILTRATION PLANTER WALL HEIGHTS IDENTIFIES DIMENSION FROM BOTTOM OF FOOTING TO TOP OF WALL.

CONSTRUCTION NOTE:

- SEE SHEET GR-15 FOR STAIR GRADING DETAILS.
- CONSTRUCT STAIRS AND HAND RAIL PER DETAIL ON SHEET GR-15.

MATCHLINE SEE SHEET GR-05

MATCHLINE SEE SHEET GR-05

NOTE:
SYMBOLS NOT TO SCALE

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REVISIONS	DATE	BY	DESIGNED WZG
			DRAWN RLP
			CHECKED DMS
			APPROVED DMS

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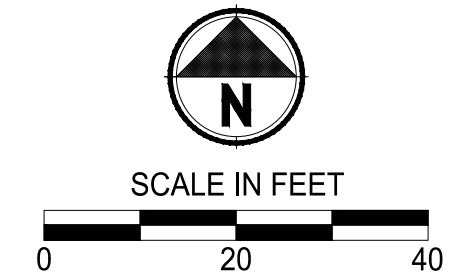
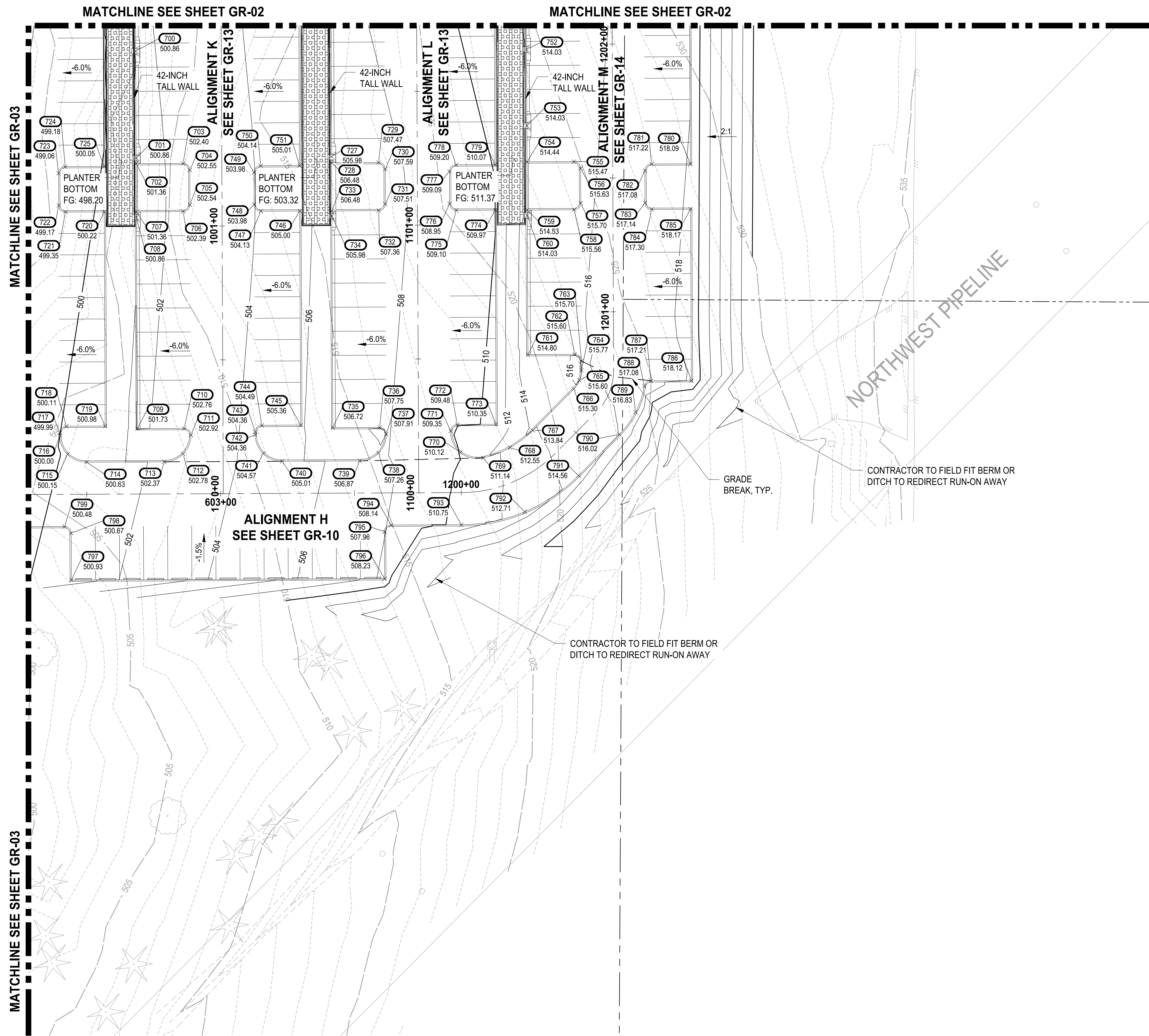
PROJECT NAME
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
PUYALLUP, WA

GRADING PLAN

DRAWING NO.
32 OF 58

GR-03

LAYOUT: GR-04 PATH: U:\PDS\Projects\Clients\217-7312-004_SHB&TParkingExpansion\995\scs\CADD\DWG PLOTTED BY: petrus DATE: Thursday, July 28, 2022 11:41:16 AM



City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

LEGEND:

- EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- PROPOSED MINOR CONTOUR LINE
- PROPOSED MINOR CONTOUR LINE
- ROADWAY CENTERLINE
- PROPERTY BOUNDARY
- CUT LIMITS
- FILL LIMITS

GENERAL NOTE:

- CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THIS WORK.
- CONTRACTOR TO VERIFY ALL EXISTING ELEVATIONS AND GRADES.
- TYPICAL ROAD SECTIONS ARE SHOWN ON SHEET TS-01.
- GRADING POINT TABLES ARE SHOWN ON SHEETS GR-15 THROUGH GR-19.
- INFILTRATION PLANTER WALL HEIGHTS IDENTIFIES DIMENSION FROM BOTTOM OF FOOTING TO TOP OF WALL.

CONSTRUCTION NOTE:

- SEE SHEET GR-15 FOR STAIR GRADING DETAILS.
- CONSTRUCT STAIRS AND HAND RAIL PER DETAIL ON SHEET GR-15.

NOTE:
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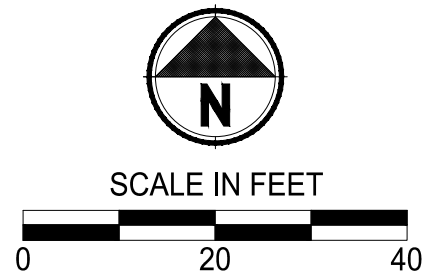
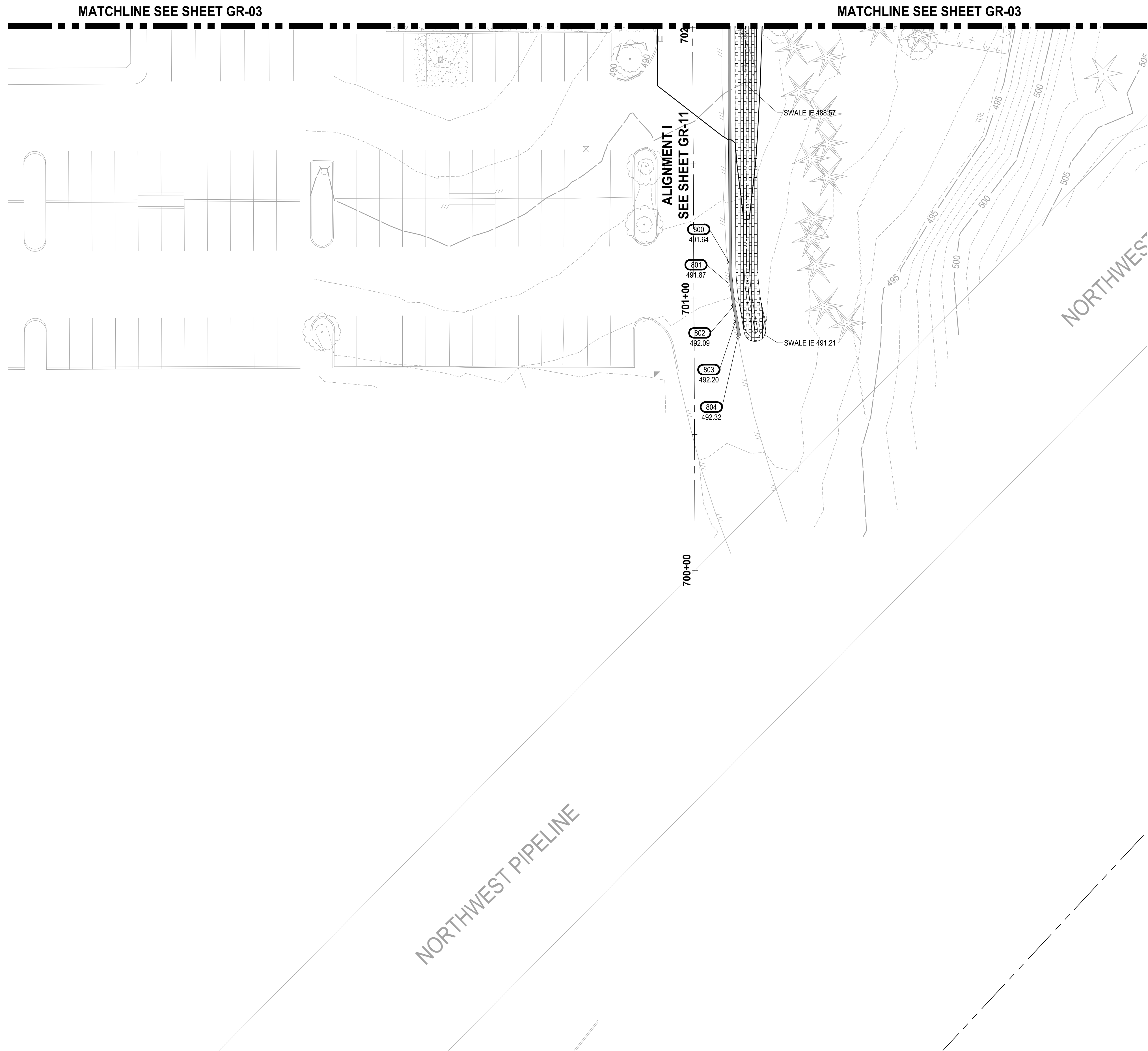
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PARKING EXPANSION**
PUYALLUP, WA

GRADING PLAN

DRAWING NO.
33 OF 58
GR-04

LAYOUT: GR-05 PATH: U:\P50\Projects\Clients\217-7312-004_SHB&TParkingExpansion\995vcs\CADD\DWG PLOTTED BY: petrus DATE: Thursday, July 28, 2022 11:41:23 AM



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Fire	Traffic

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- EXISTING MINOR CONTOUR LINE
- PROPOSED MINOR CONTOUR LINE
- PROPOSED MINOR CONTOUR LINE
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PUYALLUP, WA

GRADING PLAN

DRAWING NO.
34 OF 58
GR-05

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FILE NAME
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LAYOUT: GR-06
PATH: U:\P50\Projects\Clients\217-7312-004-SHB&TParkingExpansion\995vca\CADD\DWG
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Building

Planning

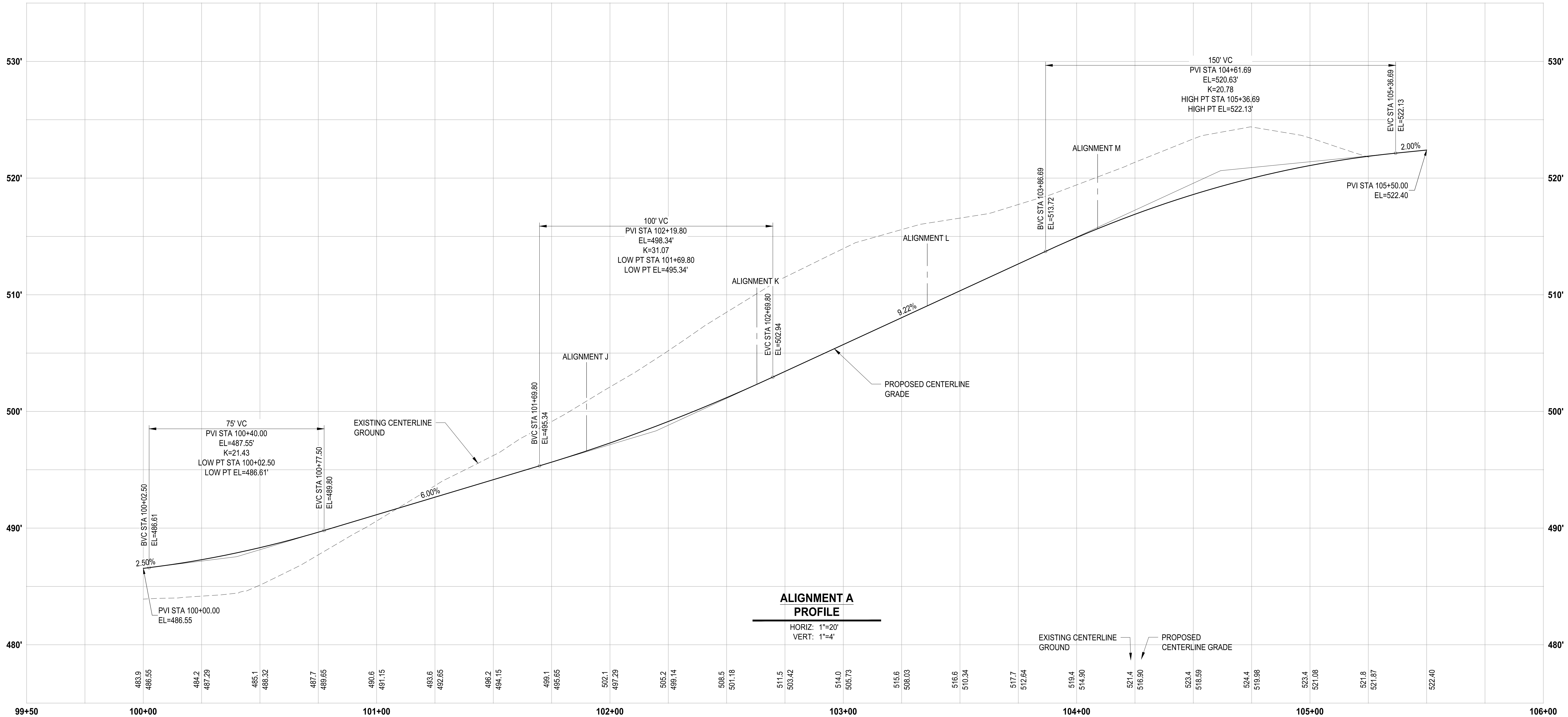
Engineering

Public Works

Fire

Traffic

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DATE: 08/26/2022
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DRAWING NO.
35 OF 58
GR-06

LAYOUT: GR-07
PATH: U:\PDS\Projects\Clients\217-7312-004-SHB&TParkingExpansion\995sca\CADD\DWG
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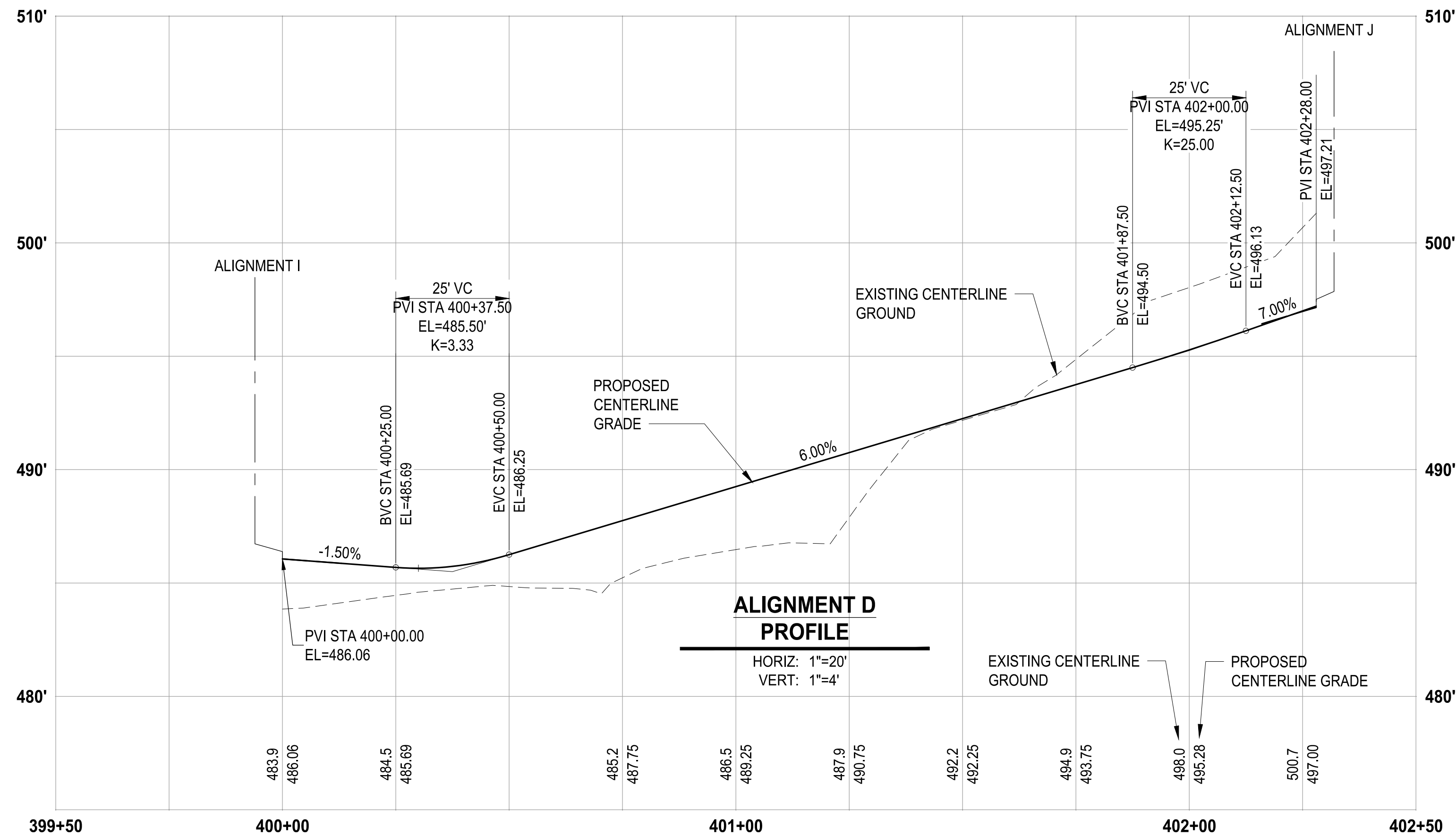
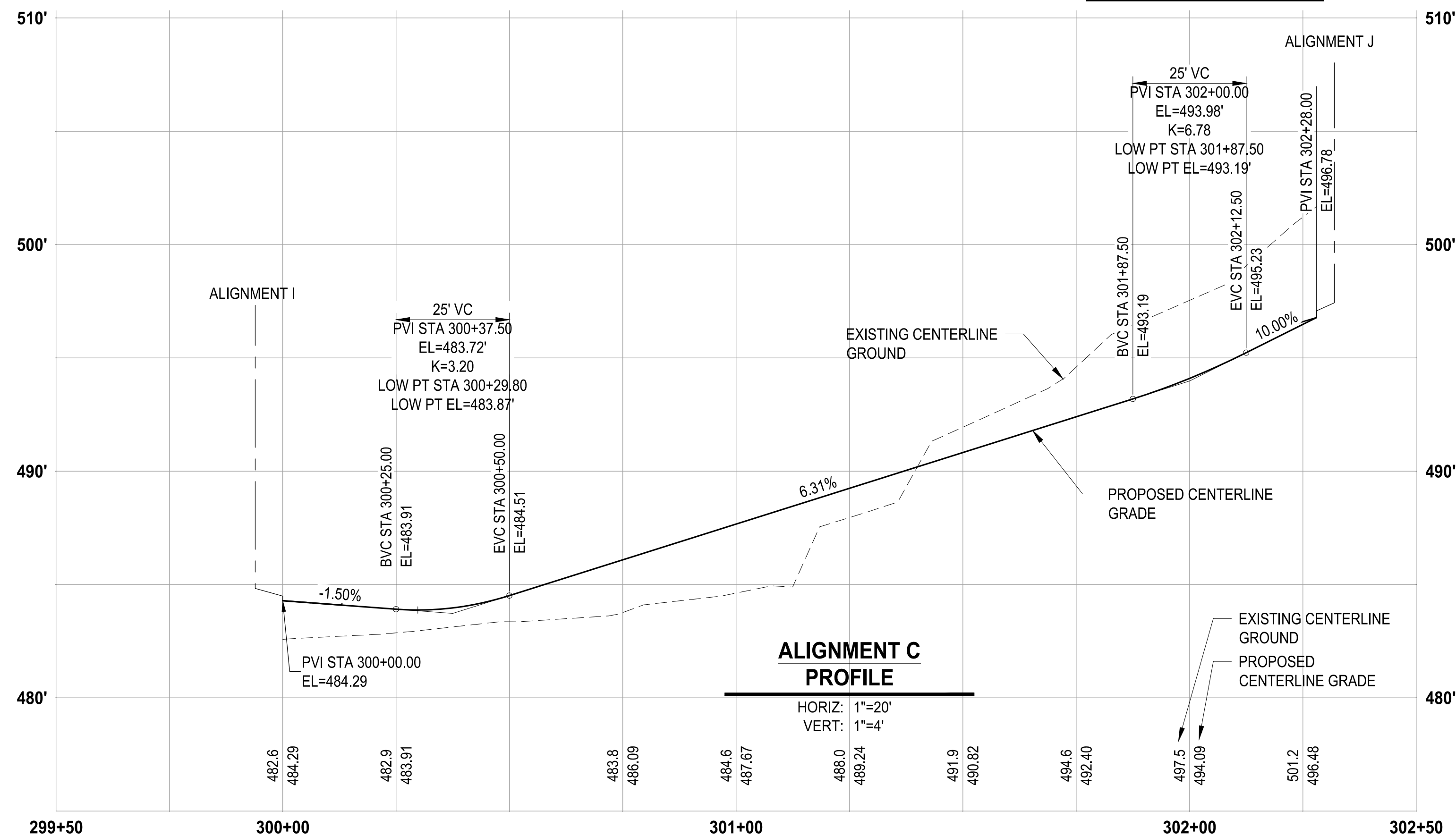
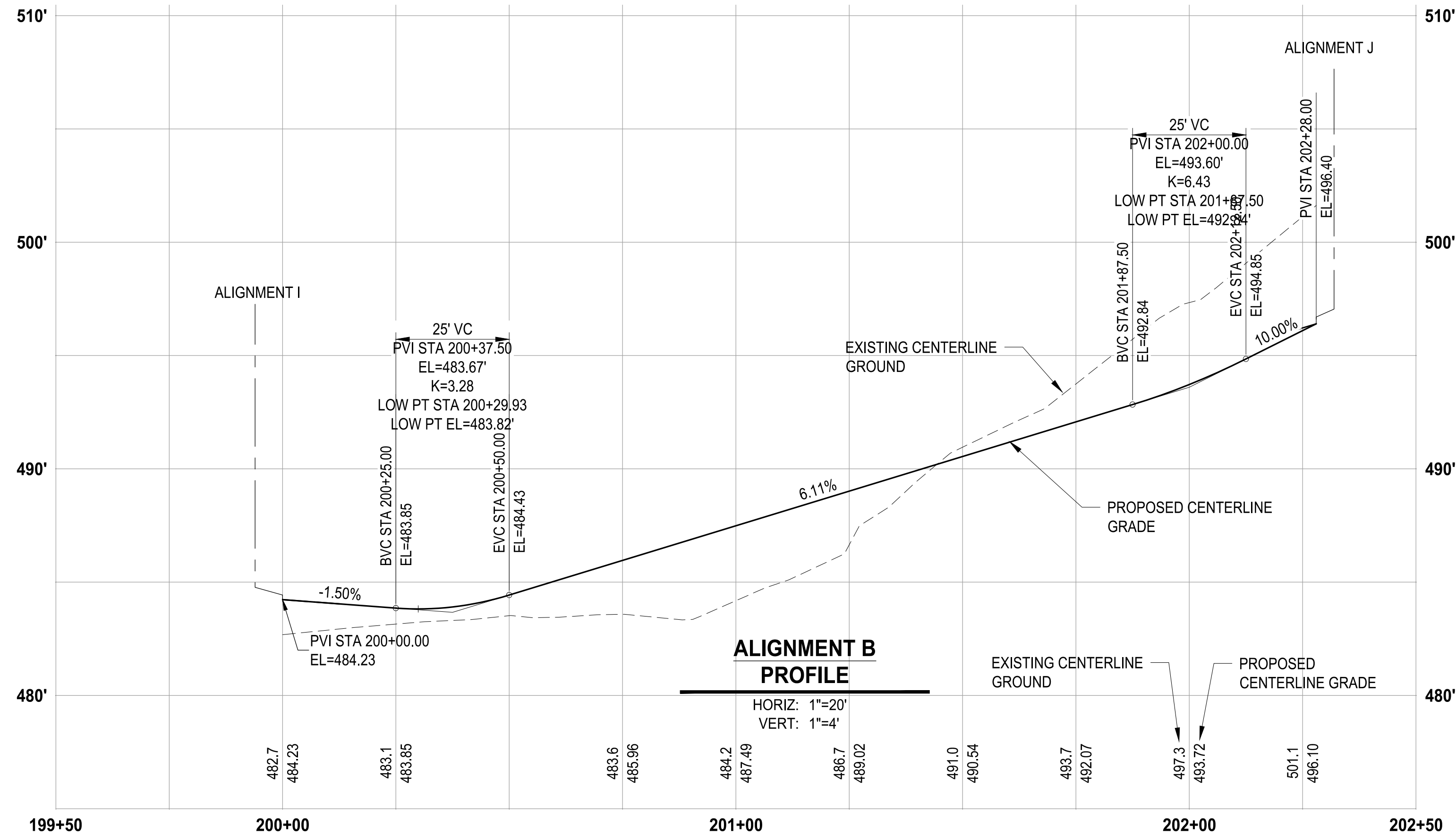


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Fire	Traffic

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PUYALLUP, WA

ALIGNMENT B, C & D PROFILES

DRAWING NO.
36 OF 58
GR-07

LAYOUT: GR-08 PATH: U:\PSD\Projects\Clients\217-7312-004_SHB&T\ParkingExpansion\995sca\CADD\DWG PLOTTED BY: petrus DATE: Thursday, July 28, 2022 11:41:39 AM



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Building

Planning

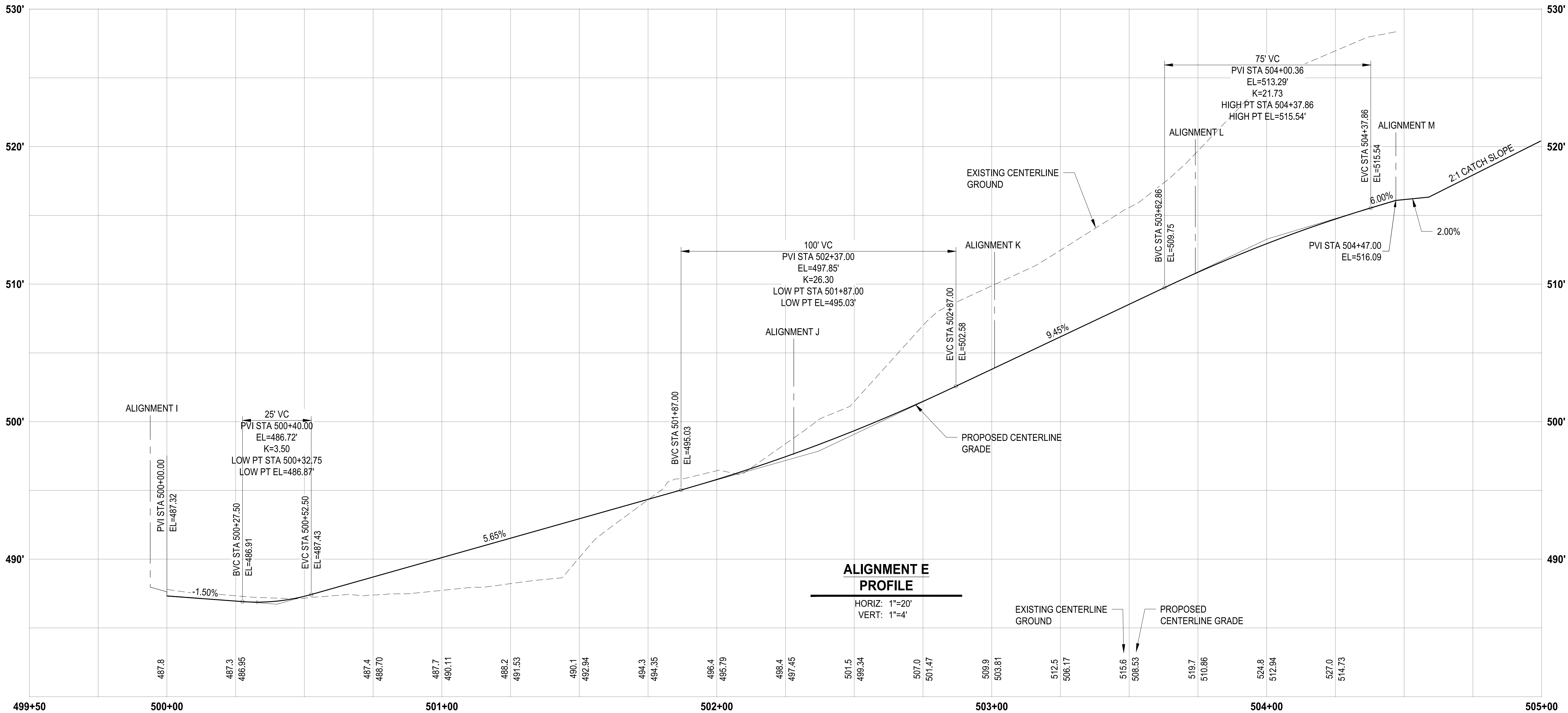
Engineering

Public Works

Fire

Traffic

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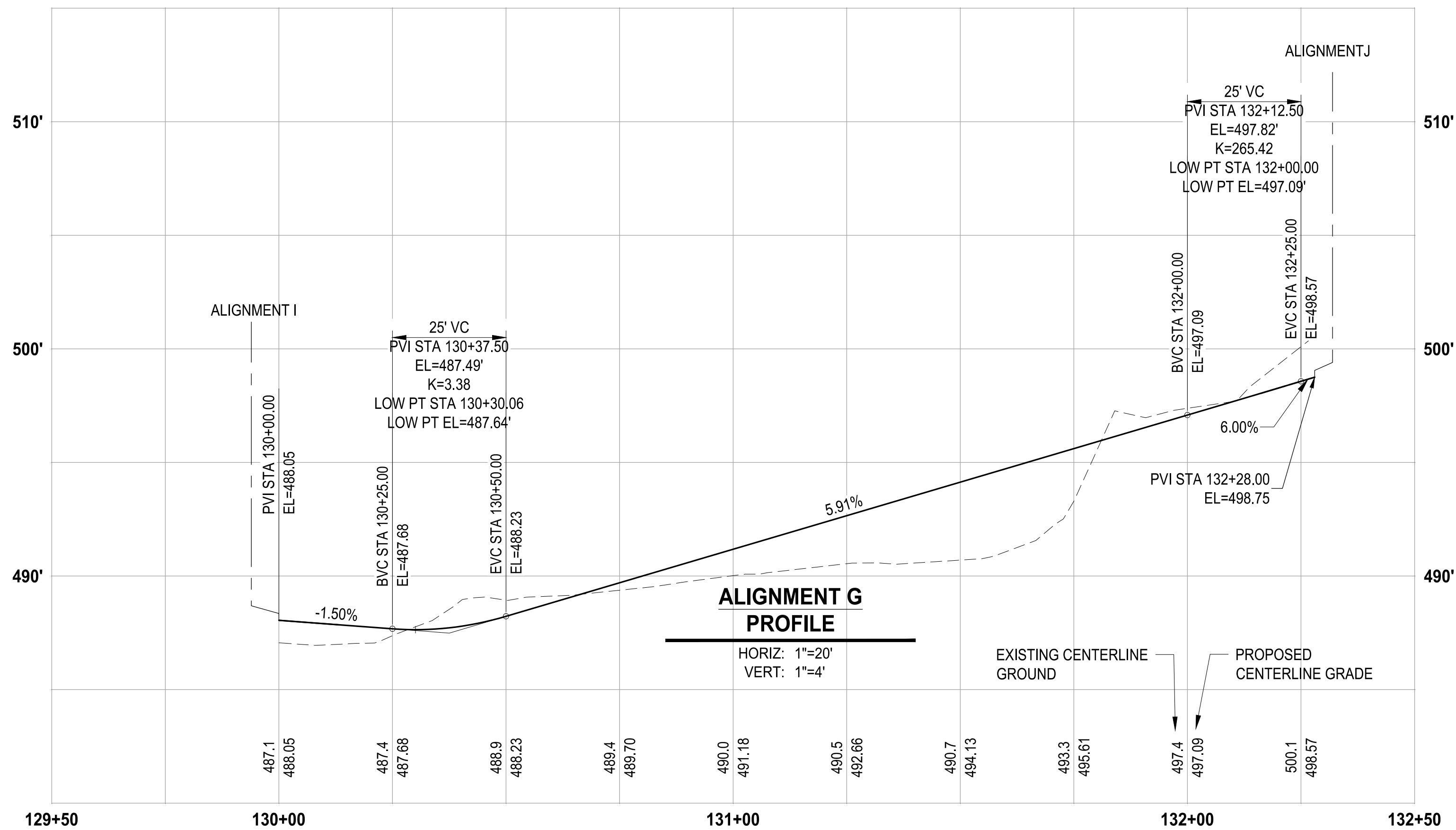
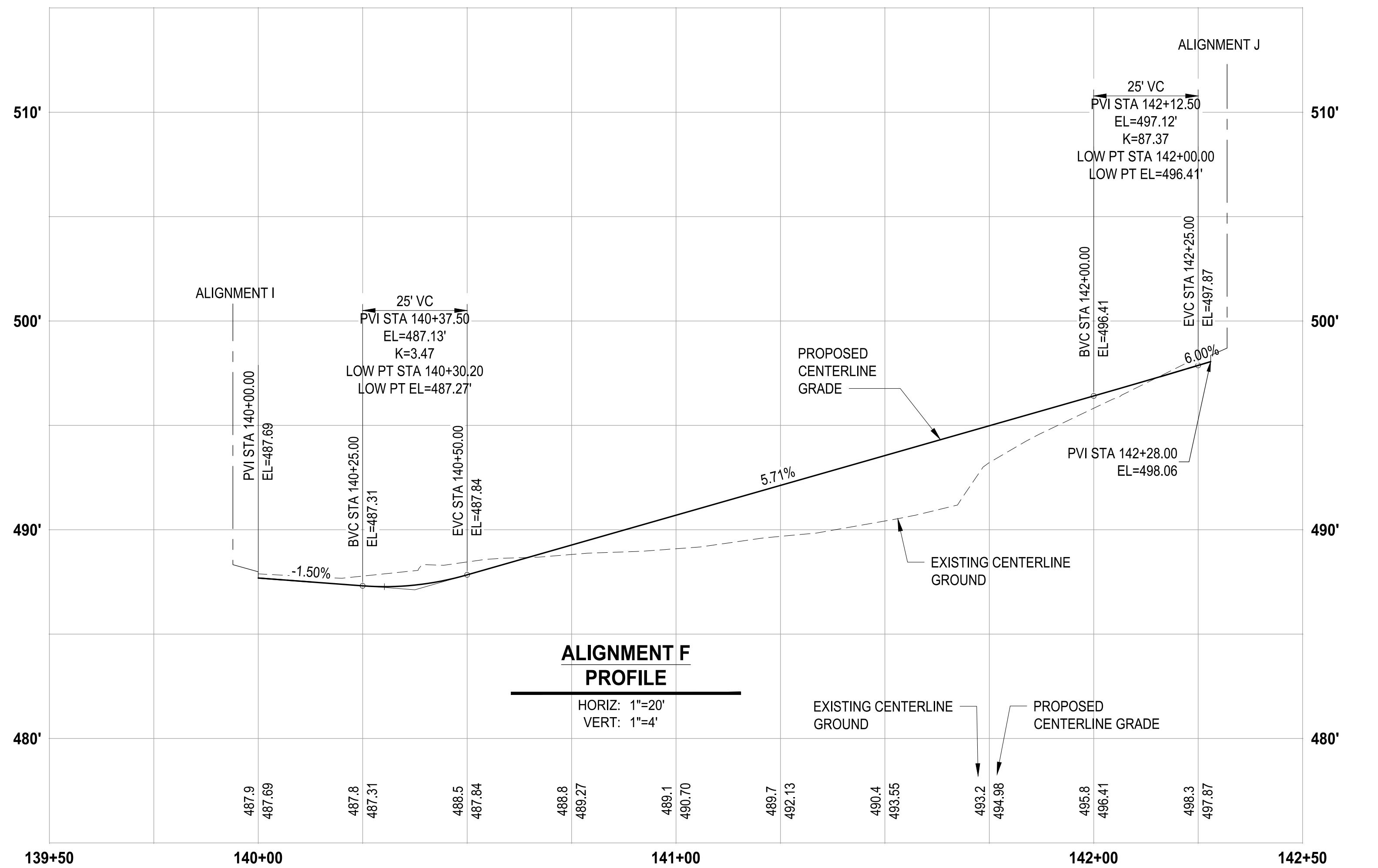
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ALIGNMENT E PROFILE

DRAWING NO.
37 OF 58
GR-08


LAYOUT: GR-09 PATH: U:\P50\Projects\Clients\217-7312-004_SHB&TParkingExpansion\095\cs\CAD\DWG PLOTTED BY: petrus DATE: Thursday, July 28, 2022 11:41:42 AM



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Engineering			
Fire		Traffic	

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PUYALLUP, WA

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38 OF 58

GR-09

LAYOUT: GR-10 PATH: U:\P50\Projects\Clients\312-Benaroya\312-217-004-SHB&TParkingExpansion\995\cs\CADD\DWG PLOTTED BY: patirius DATE: Thursday, July 28, 2022 11:41:48 AM



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Building

Planning

Engineering

Public Works

Fire

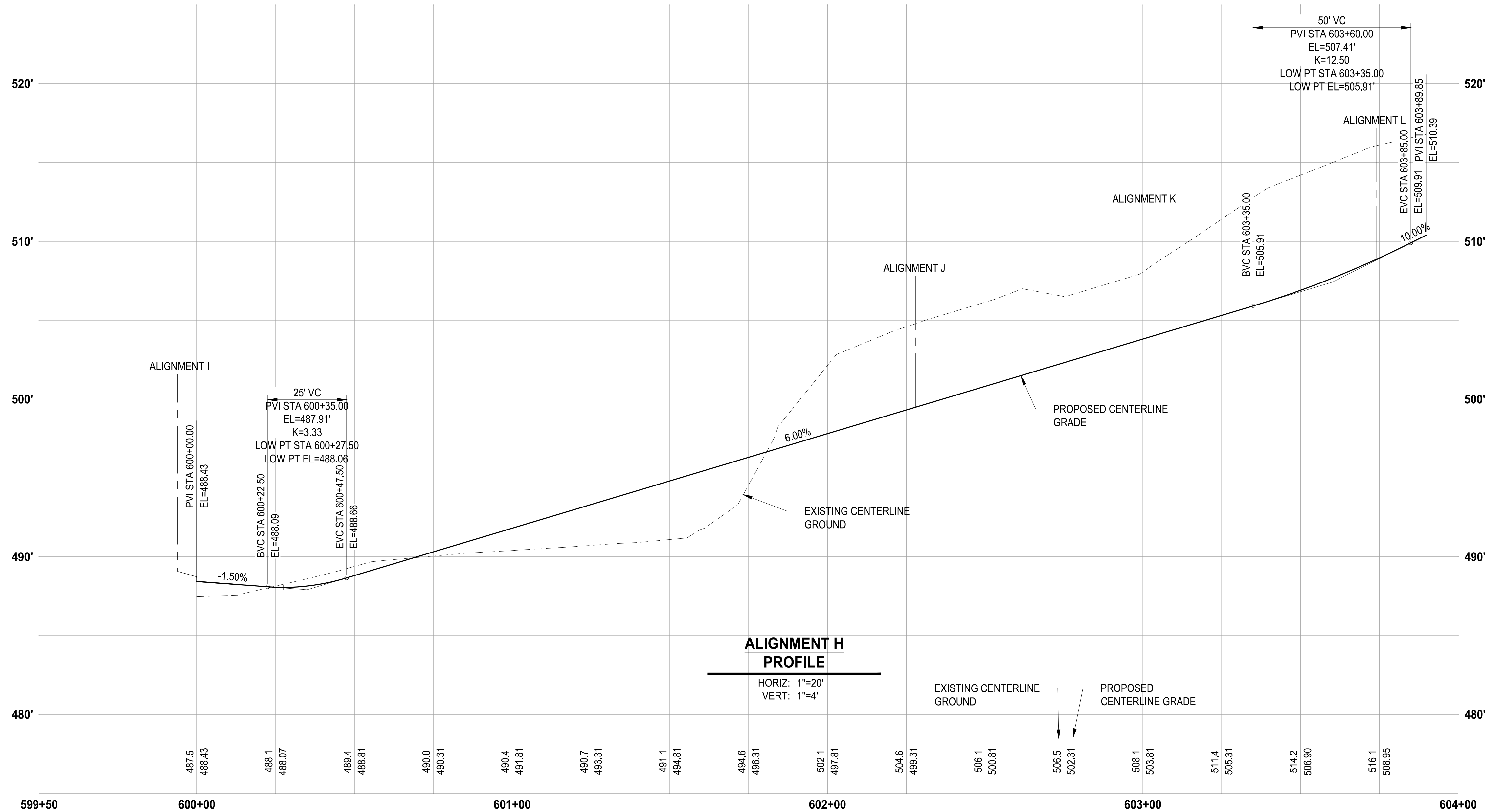
Traffic

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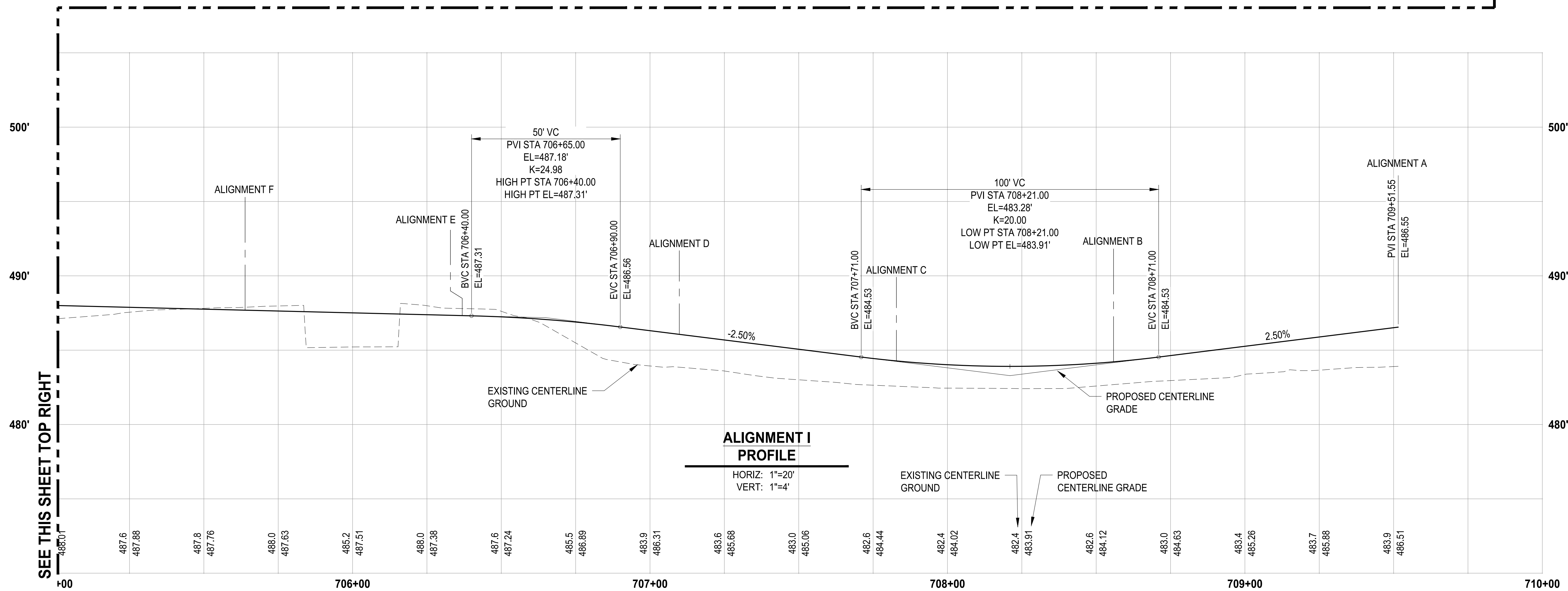
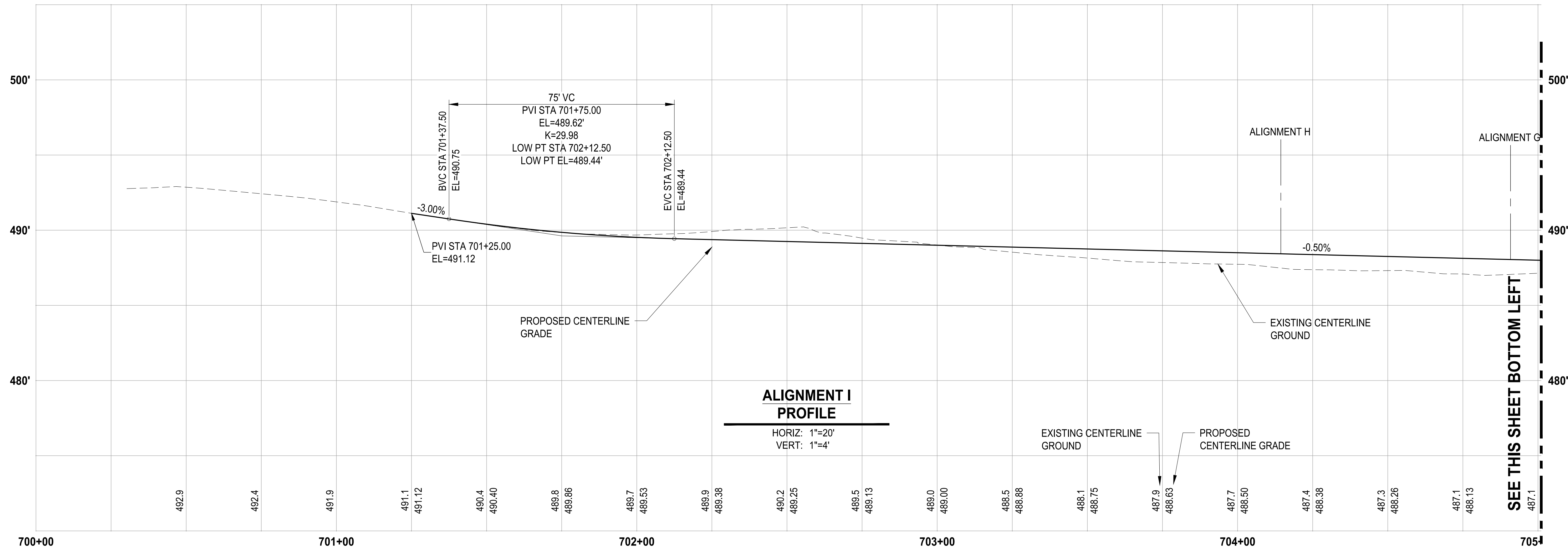
SOUTH HILL BUSINESS &
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PARKING EXPANSION
PUYALLUP, WA

ALIGNMENT H PROFILE

DRAWING NO.
39 OF 58

GR-10

LAYOUT: GR-11 PATH: U:\P50\Projects\Clients\7312-Benaroya\217-7312-004-SHB&TParkingExpansion\995\cadd\DWG PLOTTED BY: petrus DATE: Thursday, July 28, 2022 11:41:58 AM



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Fire	Traffic

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40 OF 58
GR-11

LAYOUT: GR-12 PATH: U:\P5D\Projects\Clients\312-Benaroya\217-7312-004-SHB&T\ParkingExpansion\995\cs\CADD\DWG PLOTTED BY: petrus DATE: Thursday, July 28, 2022 11:42:04 AM



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Fire

Planning

Public Works

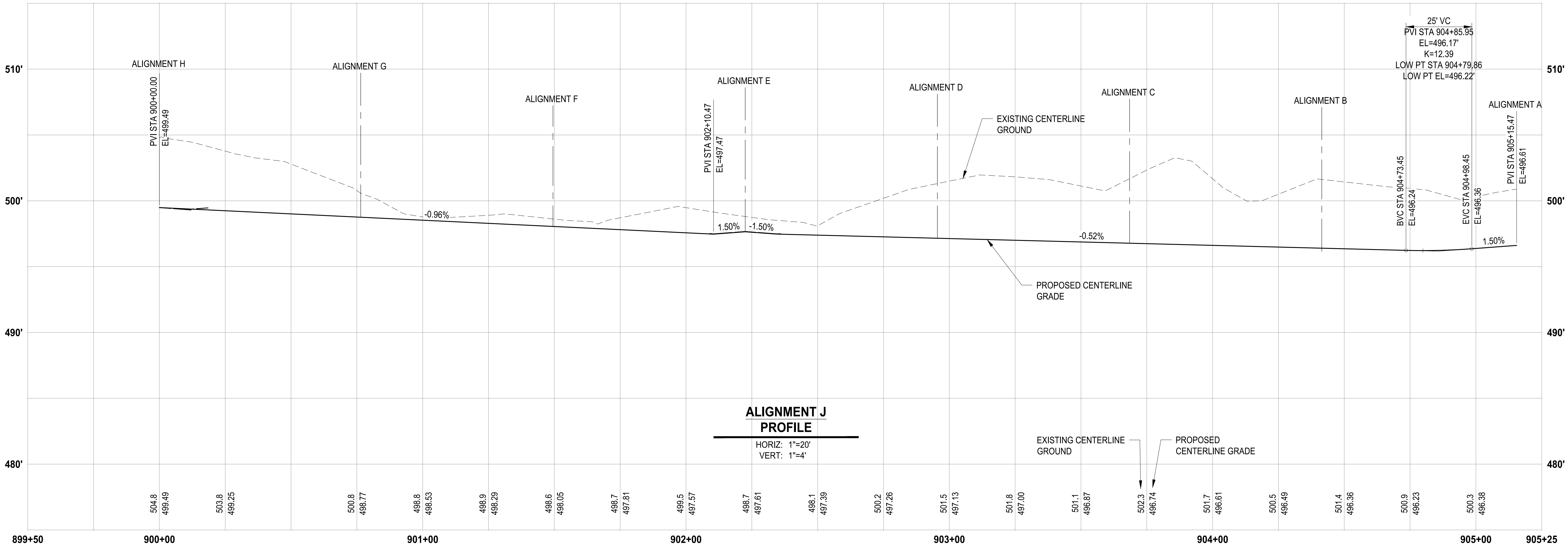
Traffic

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PUYALLUP, WA

ALIGNMENT J PROFILE

DRAWING NO.
41 OF 58

GR-12

LAYOUT: GR-13 PATH: U:\P50\Projects\Clients\312-Benaroya\217-7312-004-SHB&TParkingExpansion\995\cadd\CADD.DWG PLOTTED BY: petrus DATE: Thursday, July 28, 2022 11:42:10 AM

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Public Works

Fire

Traffic



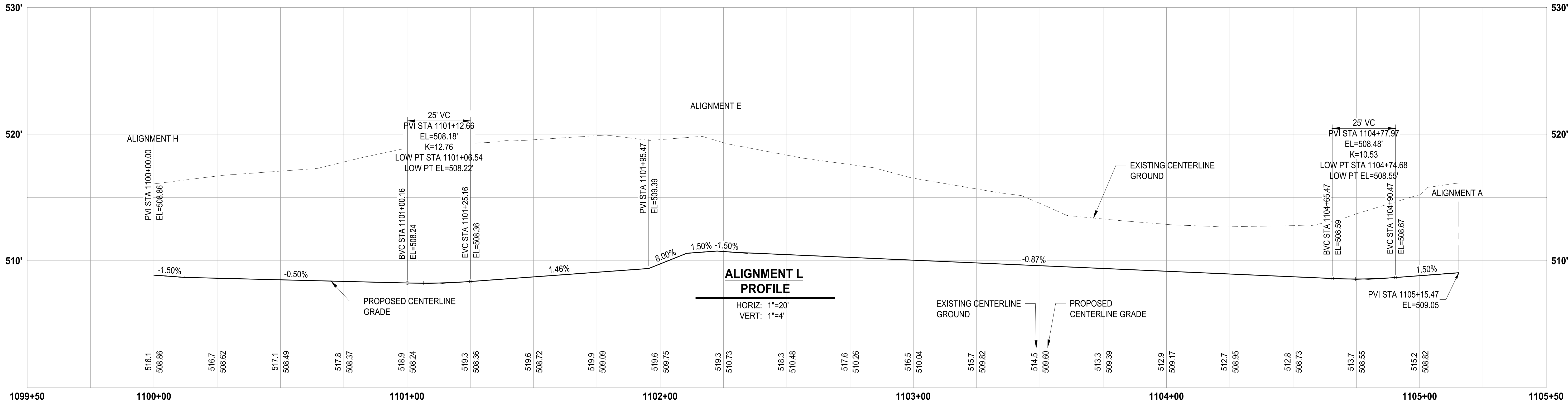
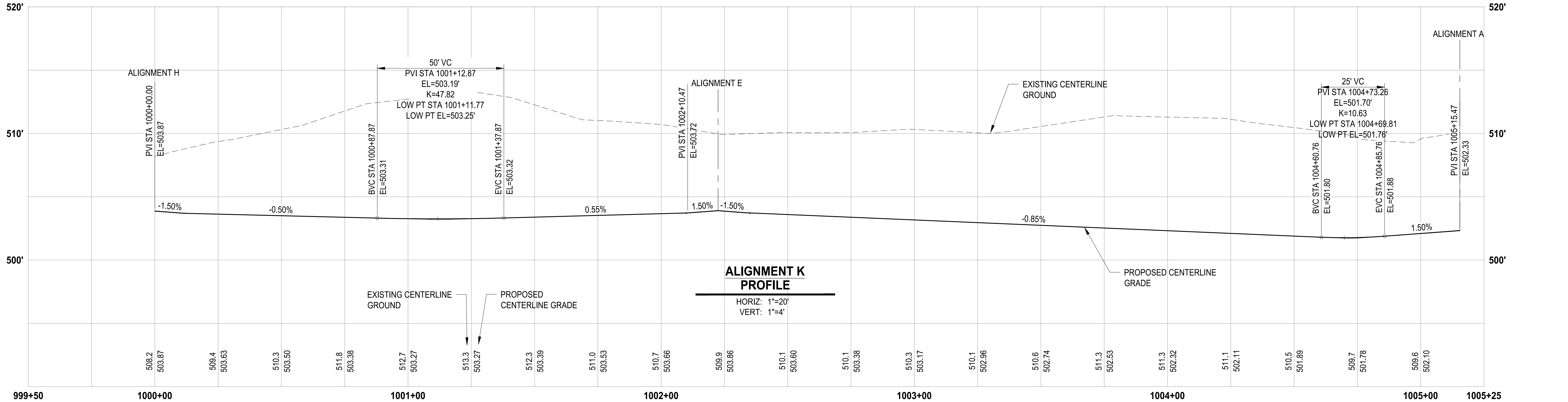
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DRAWING NO.
42 OF 58

GR-13

LAYOUT: GR-14 PATH: U:\P50\Projects\Clients\312-Benaroya\217-7312-004-SHB&T\ParkingExpansion\995\cs\CAAD\DWG PLOTTED BY: petirus DATE: Thursday, July 28, 2022 11:42:16 AM



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Building

Planning

Engineering

Public Works

Fire

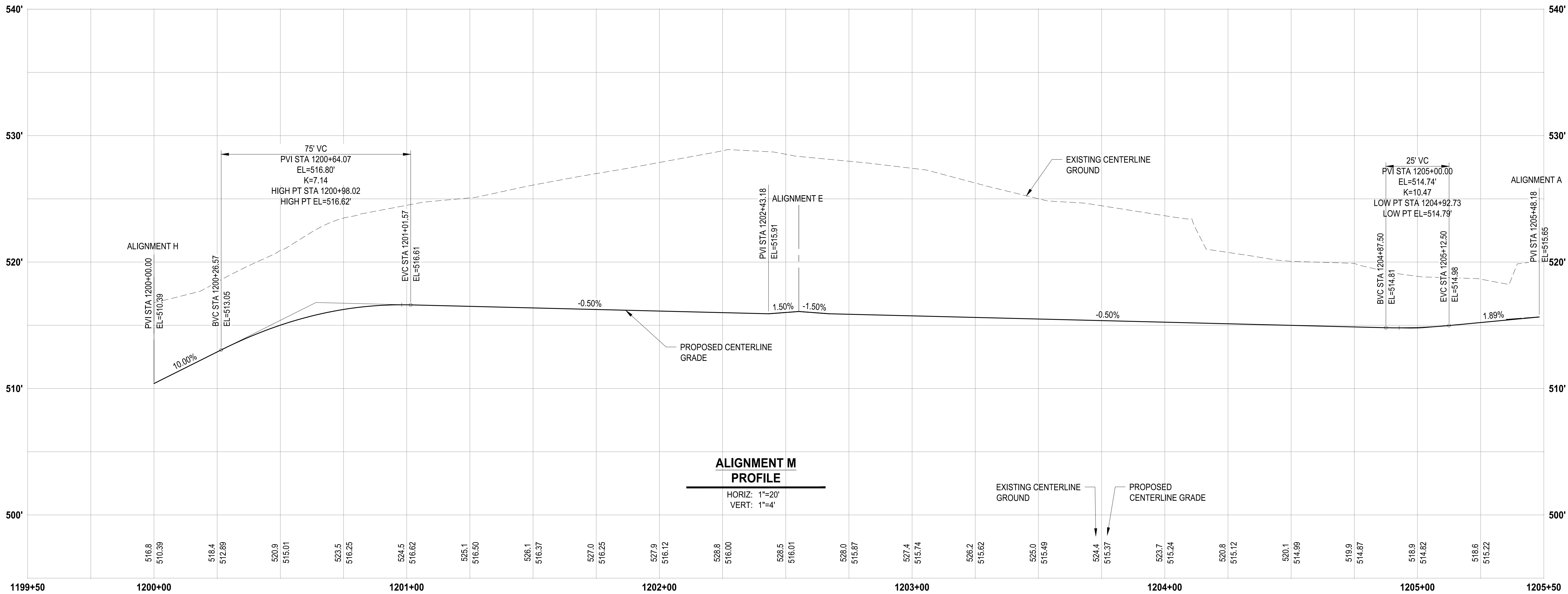
Traffic

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PROJECT NAME

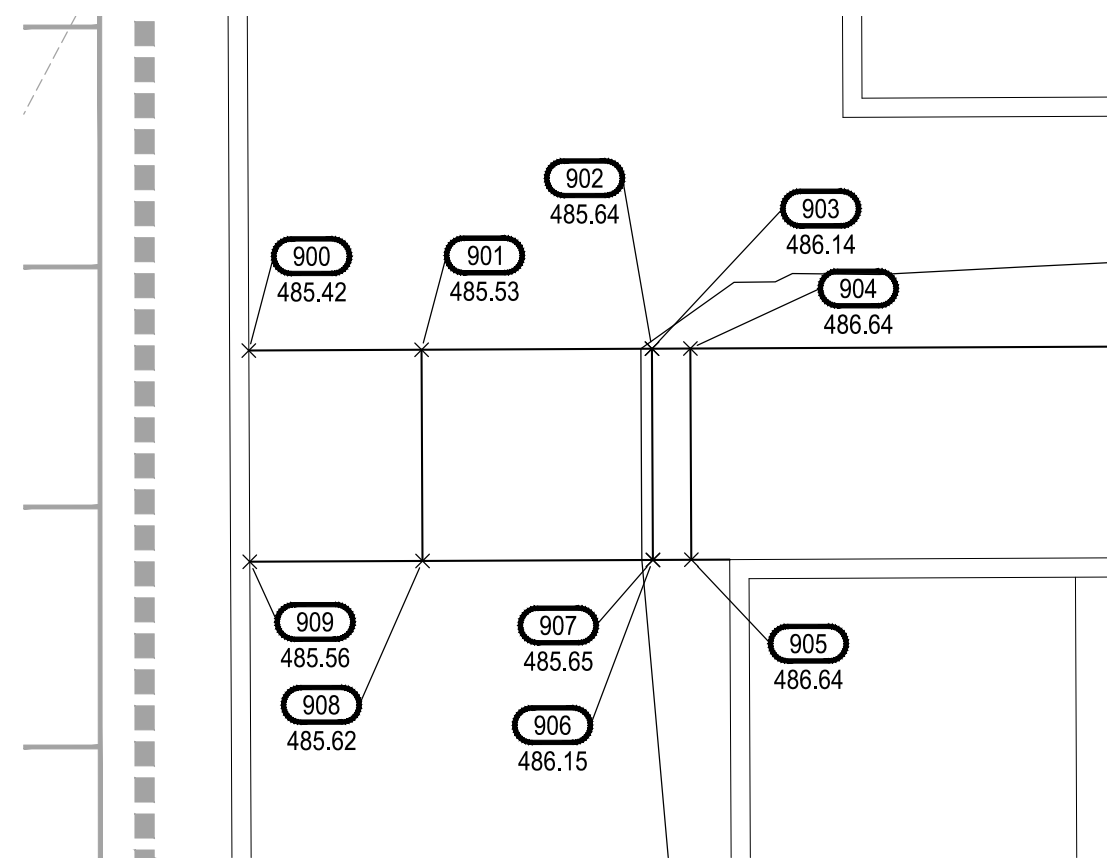
SOUTH HILL BUSINESS &
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PARKING EXPANSION
PUYALLUP, WA

ALIGNMENT M PROFILE

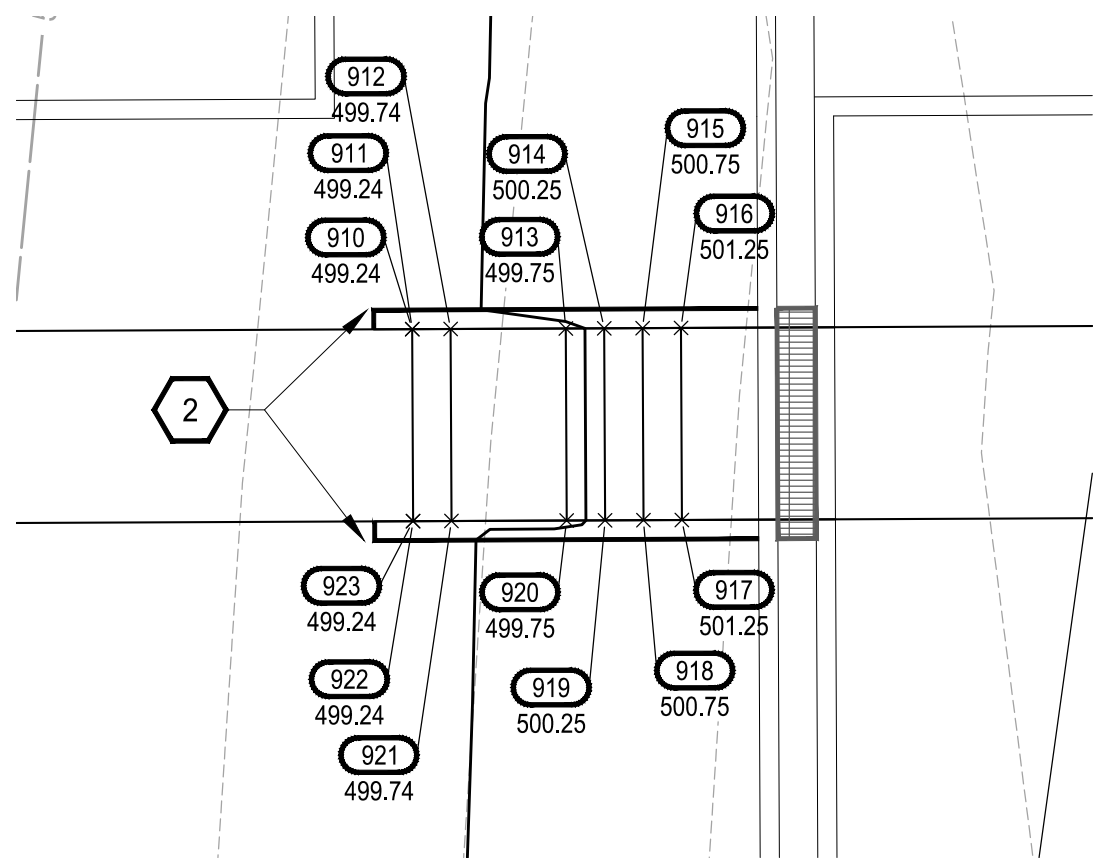
DRAWING NO.
43 OF 58

GR-14

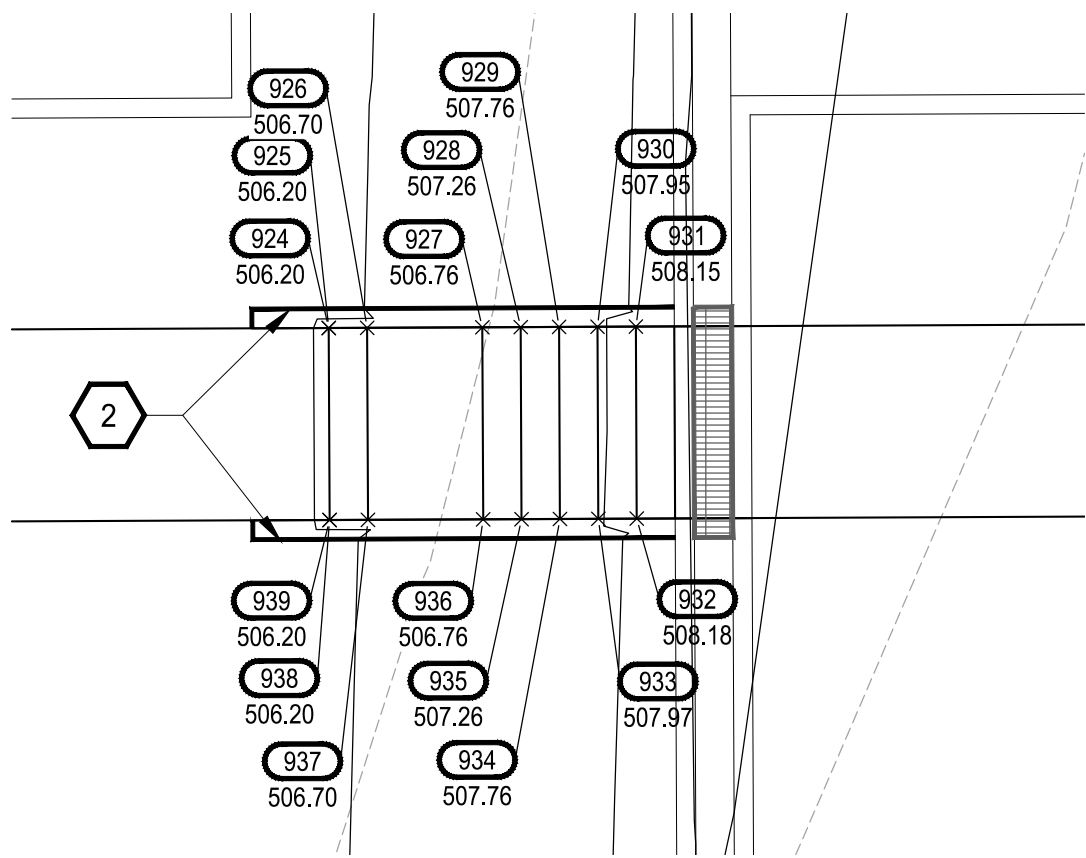
LAYOUT - GR-15
PATH: U:\P50\Projects\Client\A\312-Benaroya\217-7312-004-SH-B&T\ParkingExpansion\995\CA\DWG
PLOTTED BY: petrus DATE: Thursday, July 28, 2022 11:42:50 AM



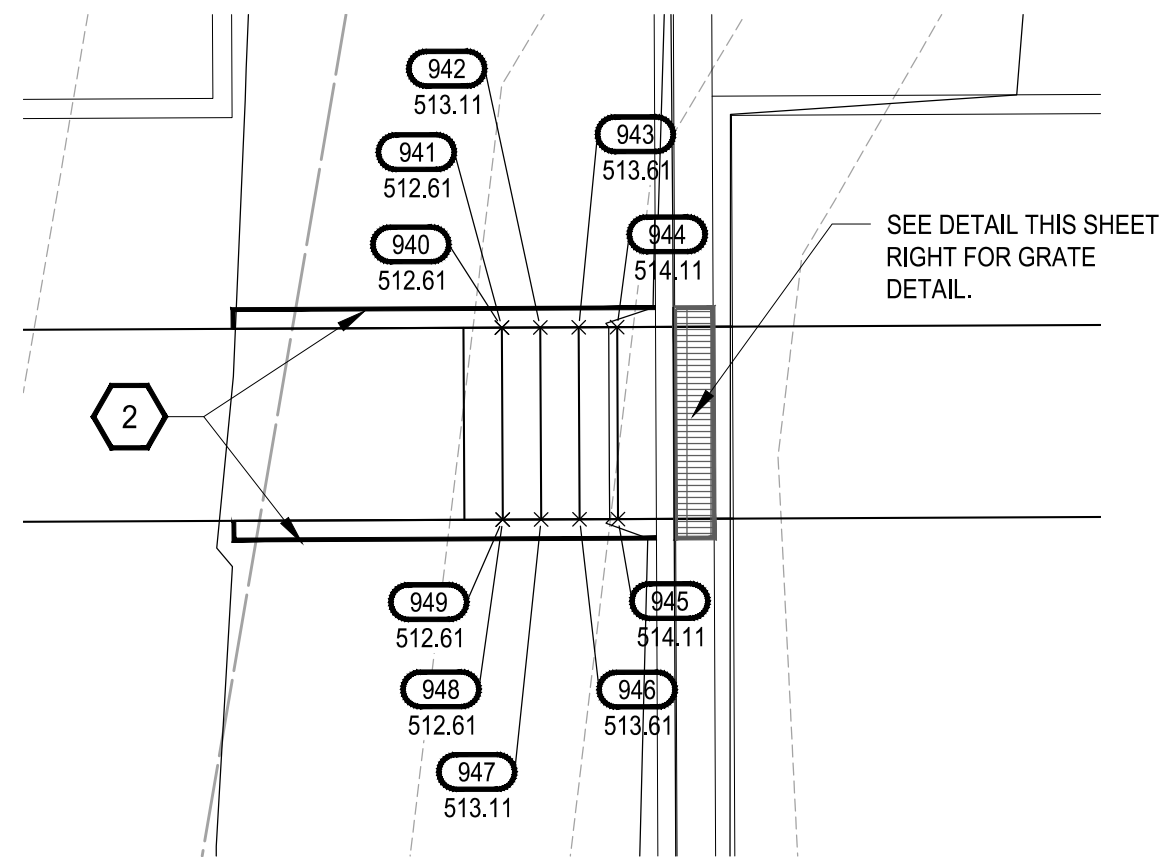
STAIR AND HAND RAIL
DETAIL
1"=5'



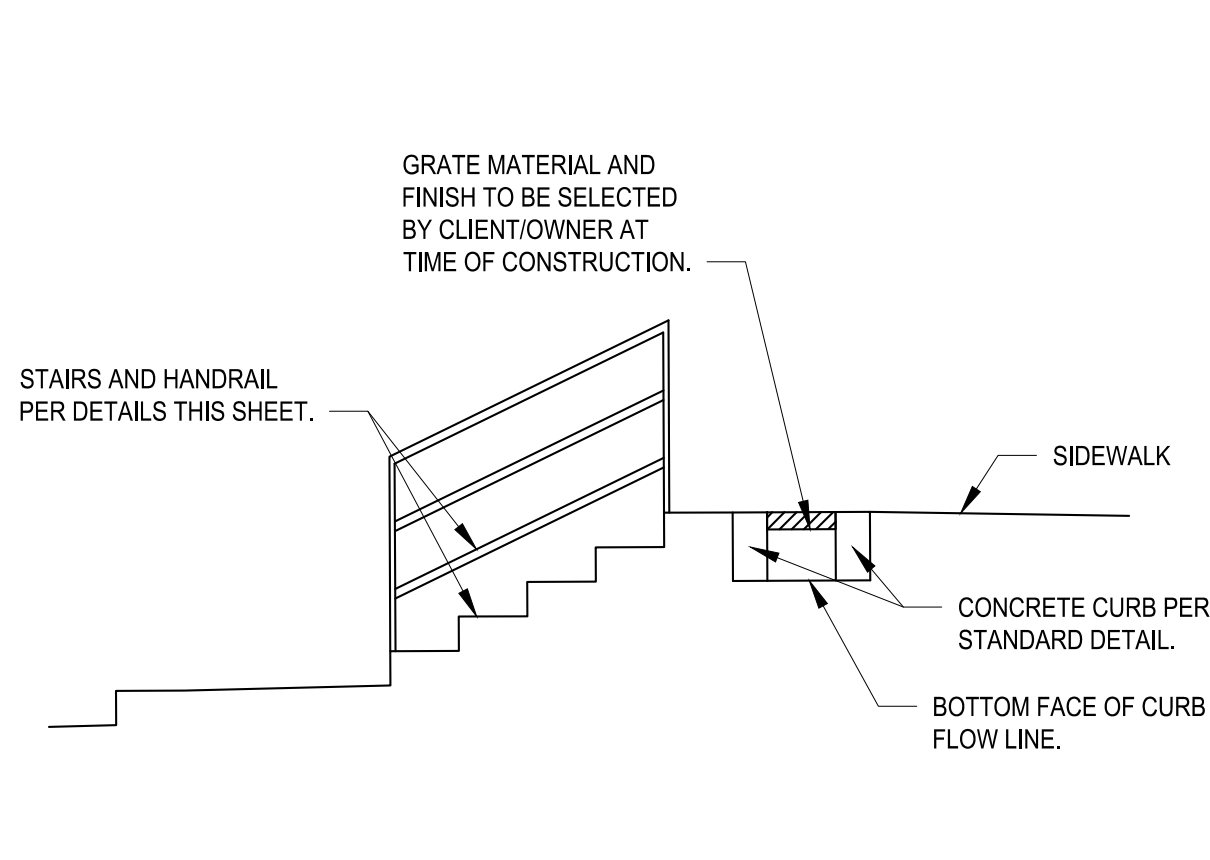
STAIR AND HAND RAIL
DETAIL
1"=5'



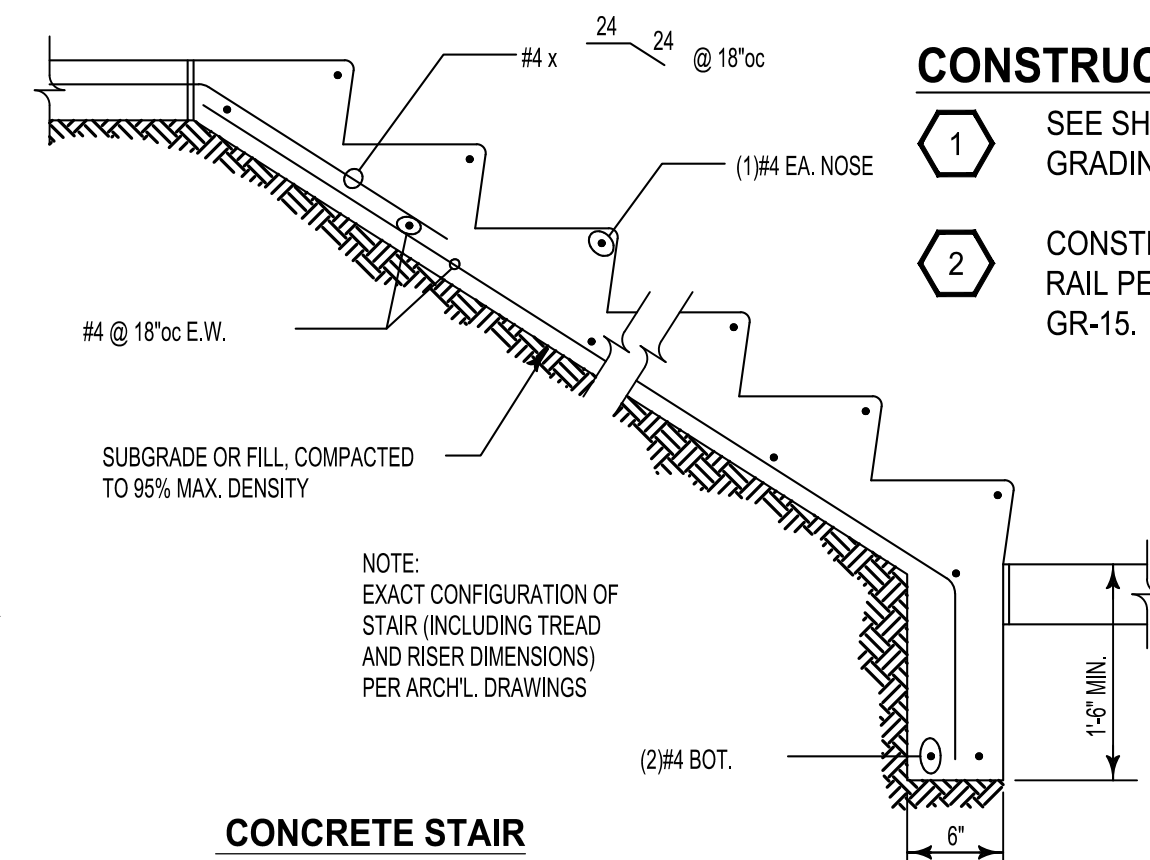
STAIR AND HAND RAIL
DETAIL
1"=5'



STAIR AND HAND RAIL
DETAIL
1"=5'



GUTTER & GRATE
DETAIL
1"=5'

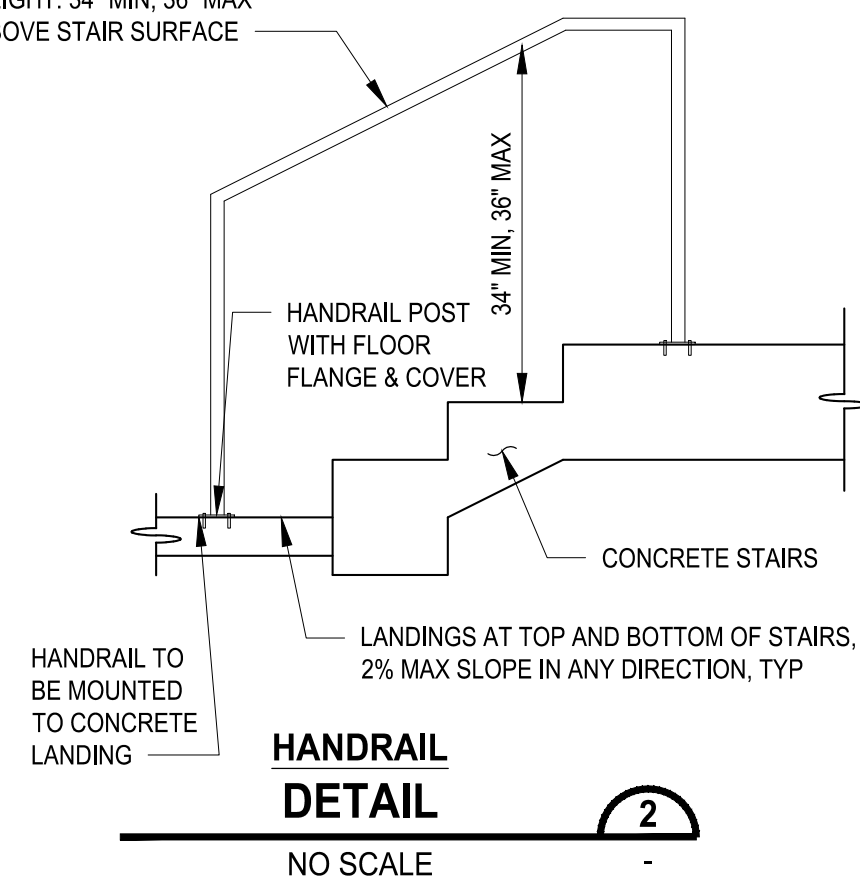


CONCRETE STAIR
DETAIL
NO SCALE

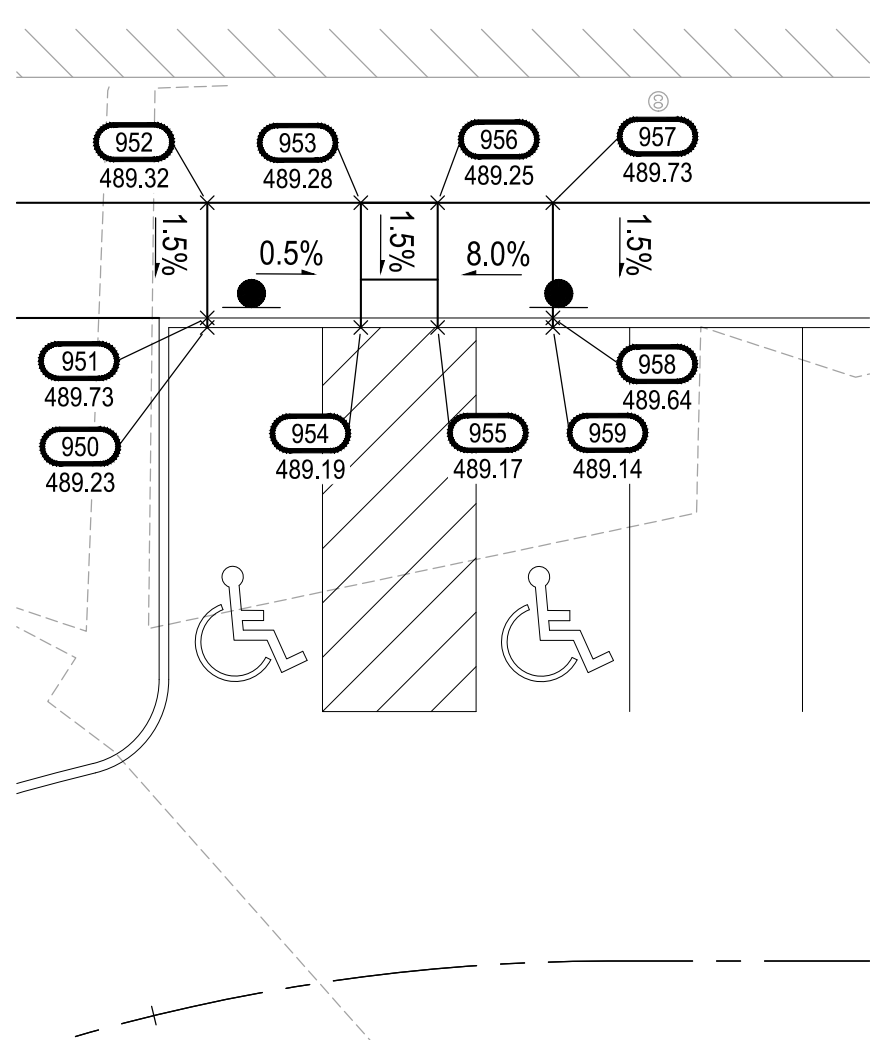
GENERAL NOTE:

- CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THIS WORK.
- CONTRACTOR TO VERIFY ALL EXISTING ELEVATIONS AND GRADES.
- TYPICAL ROAD SECTIONS ARE SHOWN ON SHEET TS-01.
- GRADING POINT TABLES ARE SHOWN ON SHEETS GR-15 THROUGH GR-19.
- INFILTRATION PLANTER WALL HEIGHTS IDENTIFIES DIMENSION FROM BOTTOM OF FOOTING TO TOP OF WALL.

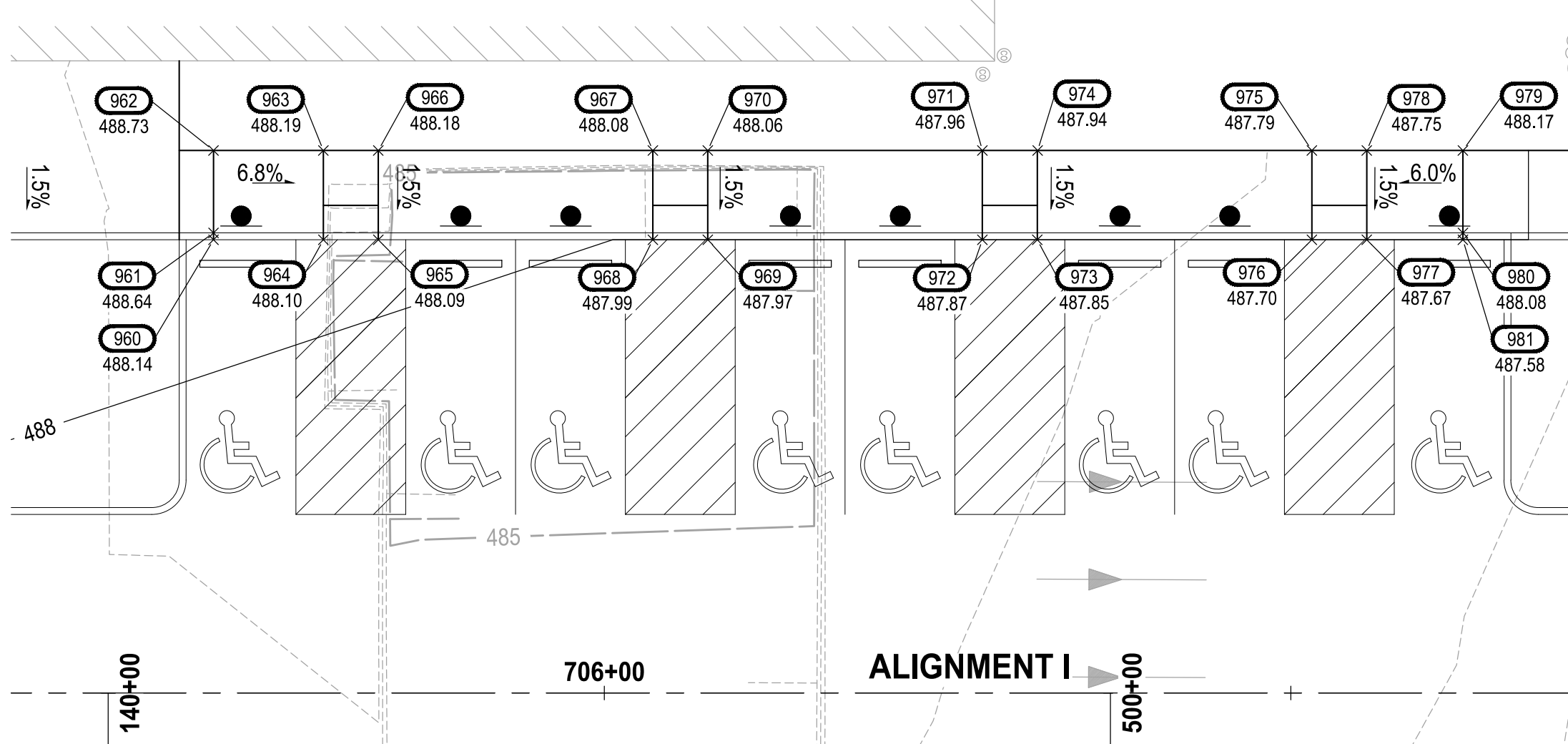
HANDRAIL MATERIAL PER
CLIENT OWNER. MOUNTING
HEIGHT: 34" MIN, 36" MAX
ABOVE STAIR SURFACE



HANDRAIL
DETAIL
NO SCALE



CURB RAMP
DETAIL
1"=10'



CURB RAMP AT ADA PARKING STALLS
DETAIL
1"=10'



LEGEND:

- EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- PROPOSED MINOR CONTOUR LINE
- PROPOSED MINOR CONTOUR LINE
- ROADWAY CENTERLINE
- PROPERTY BOUNDARY
- CUT LIMITS
- FILL LIMITS



Know what's below.
Call before you dig.

APPROVED

BY:
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE: 08/26/2022

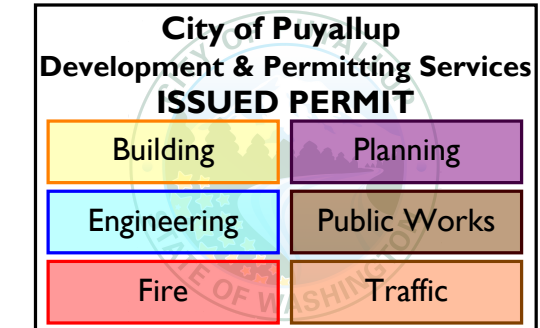
NOTE: THIS APPROVAL IS VOID
AFTER 180 DAYS FROM APPROVAL
DATE.
THE CITY WILL NOT BE
RESPONSIBLE FOR ERRORS
AND/OR OMISSIONS ON THESE
PLANS.
FIELD CONDITIONS MAY DICTATE
CHANGES TO THESE PLANS AS
DETERMINED BY THE
DEVELOPMENT ENGINEERING
MANAGER.

POINT TABLE FOR GR-15

POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
900	485.42	671009.04	1197831.31	TBC, ES
901	485.53	671009.06	1197835.81	ES
902	485.64	671009.09	1197841.81	BS
903	486.14	671009.09	1197841.81	TS
904	486.64	671009.09	1197842.81	TS
905	486.64	671003.59	1197842.83	TS
906	486.15	671003.59	1197841.83	TS
907	485.65	671003.59	1197841.83	BS
908	485.62	671003.56	1197835.83	ES
909	485.56	671003.54	1197831.33	TBC, ES
910	499.24	671010.15	1198077.31	BS
911	499.24	671010.15	1198077.31	TS
912	499.74	671010.15	1198078.31	TS
913	499.75	671010.17	1198081.31	TS
914	500.25	671010.17	1198082.31	TS
915	500.75	671010.18	1198083.31	TS
916	501.25	671010.18	1198084.31	TS
917	501.25	671005.18	1198084.33	TS
918	500.75	671005.18	1198083.33	TS
919	500.25	671005.17	1198082.33	TS
920	499.75	671005.17	1198081.33	TS
921	499.74	671005.15	1198078.33	TS
922	499.24	671005.15	1198077.33	TS
923	499.24	671005.15	1198077.33	BS
924	506.20	671010.48	1198150.31	BS
925	506.20	671010.48	1198150.31	TS
926	506.70	671010.48	1198151.31	TS
927	506.76	671010.50	1198154.31	TS
928	507.26	671010.50	1198155.31	TS
929	507.76	671010.51	1198156.31	TS
930	507.95	671010.51	1198157.31	TS
931	508.15	671010.51	1198158.31	TS
932	508.18	671005.52	1198158.33	TS
933	507.97	671005.51	1198157.33	TS
934	507.76	671005.51	1198156.33	TS
935	507.26	671005.50	1198155.33	TS
936	506.76	671005.50	1198154.33	TS
937	506.70	671005.48	1198151.33	TS
938	506.20	671005.48	1198150.33	TS
939	506.20	671005.48	1198150.33	BS
940	512.61	671010.83	1198228.31	BS
941	512.61	671010.83	1198228.31	TS
942	513.11	671010.83	1198229.31	TS
943	513.61	671010.84	1198230.31	TS
944	514.11	671010.84	1198231.31	TS
945	514.11	671005.84	1198231.33	TS
946	513.61	671005.84	1198230.33	TS
947	513.11	671005.83	1198229.33	TS
948	512.61	671005.83	1198228.33	TS
949	512.61	671005.83	1198228.33	BS
950	489.23	670613.98	1197786.59	BFC
951	489.73	670613.98	1197786.09	TBC

POINT TABLE FOR GR-15

POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
952	489.32	670613.96	1197780.09	BW, TR
953	489.28	670621.96	1197780.05	BW, BR
954	489.19	670621.98	1197786.55	BFC
955	489.17	670625.98	1197786.54	BFC
956	489.25	670625.96	1197780.04	BW, BR
957	489.73	670631.96	1197780.01	BW, TR
958	489.64	670631.98	1197786.01	TBC
959	489.14	670631.98	1197786.51	BFC
960	488.14	670832.51	1197785.61	BFC
961	488.64	670832.51	1197785.11	TBC
962	488.73	670832.48	1197779.11	BW, TR
963	488.19	670840.48	1197779.07	BW, BR
964	488.10	670840.51	1197785.57	BFC
965	488.09	670844.51	1197785.55	BFC
966	488.18	670844.48	1197779.05	BW
967	488.08	670864.48	1197778.96	BW
968	487.99	670864.51	1197785.46	BFC
969	487.97	670868.51	1197785.44	BFC
970	488.06	670868.48	1197778.94	BW
971	487.96	670888.48	1197778.85	BW
972	487.87	670888.51	1197785.35	BFC
973	487.85	670892.51	1197785.34	BFC
974	487.94	670892.51	1197778.84	BW
975	487.79	670912.48	1197778.75	BW
976	487.70	670912.51	1197785.25	BFC
977	487.67	670916.51	1197785.23	BFC
978	487.75	670916.48	1197778.73	BW, BR
979	488.17	670923.48	1197778.70	BW, TR
980	488.08	670923.51	1197784.70	TBC
981	487.58	670923.51	1197785.20	BFC



ABBREVIATION TABLE

AP	ANGLE POINT
BFC	BOTTOM FACE OF CURB
BFW	BOTTOM FACE OF WALL
BR	BOTTOM OF RAMP
BS	BOTTOM OF STAIR
BW	BACK OF WALK
CC	CURB CUT
CVF	CONTRACTOR TO VERIFY IN FIELD
EA	EDGE OF ASPHALT
EC	EDGE OF CONCRETE
ES	EDGE OF SIDEWALK
FL	FLOW LINE
MC	MIDDLE OF CURVE
ME	MATCH EXISTING
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENT
TBC	TOP BACK OF CURB
TBW	TOP BACK OF WALL
TR	TOP OF RAMP
TS	TOP OF STAIR

NOTE:
SYMBOLS NOT TO SCALE

100 % REVIEW SUBMITTAL



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PROJECT NAME

**SOUTH HILL BUSINESS &
TECHNOLOGY CENTER
PARKING EXPANSION**
PUYALLUP, WA

**GRADING PLAN
STAIR DETAILS**

DRAWING NO.
44 OF 58

GR-15

LAYOUT: GR-16 PATH: U:\P50\Projects\Clients\312-Benaroya\312-04-SH-B&T-Parking-Expansion\995\cadd\DWG PLOTTED BY: petlirus DATE: Thursday, July 28, 2022 11:42:57 AM

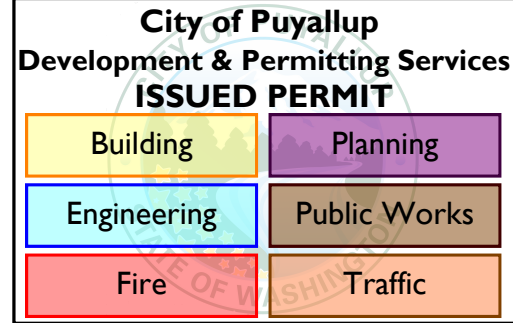
POINT TABLE FOR GR-01				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
1	486.47	671178.17	1197859.55	BFC, PC
2	486.51	671175.68	1197862.06	BFC, PT
3	486.30	671161.68	1197862.12	BFC, AP
4	489.45	671162.01	1197934.12	BFC, AP
5	489.66	671176.01	1197934.06	BFC, PC
6	489.84	671178.52	1197936.55	BFC, PT
7	490.56	671178.57	1197948.55	BFC, PC
8	490.68	671176.08	1197951.06	BFC, PT
9	490.47	671162.08	1197951.12	BFC, AP
10	494.79	671162.41	1198023.12	BFC, AP
11	494.99	671175.98	1198023.06	BFC, PC
12	495.23	671178.35	1198026.38	BFC, PCC
13	495.47	671174.72	1198031.23	BFC, MC
14	495.66	671168.95	1198033.09	BFC, PT
15	495.50	671156.18	1198033.15	FL, CC
16	495.57	671139.95	1198033.22	BFC, PC
17	495.33	671134.17	1198031.41	BFC, MC
18	494.58	671130.50	1198026.60	BFC, PCC
19	494.01	671132.84	1198023.25	BFC, PT
20	493.76	671149.41	1198023.18	BFC, AP
21	489.03	671149.08	1197951.18	BFC, AP
22	489.34	671132.08	1197951.26	BFC, PC
23	489.23	671129.57	1197948.77	BFC, PT
24	488.44	671129.51	1197935.77	BFC, PC
25	488.24	671132.00	1197933.26	BFC, PT
26	487.93	671149.00	1197933.18	BFC, AP
27	483.37	671148.60	1197843.18	BFC, AP
28	483.62	671131.60	1197843.26	BFC, PC
29	483.70	671129.09	1197840.77	BFC, PT
30	483.70	671129.08	1197840.27	BFC, PC
31	483.84	671131.98	1197833.18	BFC, MC
32	484.78	671139.04	1197830.22	BFC, PT
33	484.82	671146.04	1197830.19	FL, CC
34	484.86	671153.04	1197830.16	BFC, PC
35	485.70	671170.75	1197837.40	BFC, MC
36	486.35	671178.15	1197855.05	BFC, PT
37	483.66	671105.10	1197843.88	BFC, PC
38	483.61	671102.61	1197846.39	BFC, PT
39	483.40	671088.61	1197846.45	BFC, AP
40	488.07	671089.01	1197934.45	BFC, AP
41	488.30	671103.01	1197934.39	BFC, PC
42	488.50	671105.52	1197936.88	BFC, PT
43	489.23	671105.57	1197948.88	BFC, PC
44	489.34	671103.08	1197951.39	BFC, PT
45	489.08	671089.08	1197951.45	BFC, AP
46	493.81	671089.41	1198023.45	BFC, AP
47	494.01	671102.98	1198023.39	BFC, PC
48	494.51	671105.35	1198026.71	BFC, PCC
49	495.15	671101.72	1198031.56	BFC, MC
50	495.79	671095.95	1198033.42	BFC, PT
51	495.86	671082.93	1198033.48	FL, CC
52	495.94	671066.95	1198033.55	BFC, PC
53	495.34	671061.17	1198031.74	BFC, MC
54	494.74	671057.50	1198026.93	BFC, PCC
55	494.39	671059.84	1198023.58	BFC, PT
56	494.14	671076.41	1198023.51	BFC, AP
57	489.28	671076.08	1197951.51	BFC, AP
58	489.59	671059.09	1197951.59	BFC, PC
59	489.48	671056.57	1197949.10	BFC, PT
60	488.65	671056.52	1197936.10	BFC, PC
61	488.45	671059.00	1197933.59	BFC, PT

POINT TABLE FOR GR-01				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
62	488.14	671076.00	1197933.51	BFC, AP
63	483.42	671075.60	1197843.51	BFC, AP
64	483.68	671058.60	1197843.59	BFC, PC
65	483.75	671056.09	1197841.10	BFC, PT
66	483.76	671056.09	1197840.60	BFC, PC
67	483.86	671058.98	1197833.51	BFC, MC
68	484.28	671066.04	1197830.55	BFC, PT
69	484.21	671081.46	1197830.48	FL, CC
70	484.26	671095.04	1197830.42	BFC, PC
71	483.83	671102.12	1197833.32	BFC, MC
72	483.70	671105.08	1197840.38	BFC, PT
73	484.07	671032.10	1197844.21	BFC, PC
74	484.10	671029.11	1197847.22	BFC, PT
75	484.30	671015.62	1197847.28	BFC, AP
76	489.17	671016.01	1197934.78	BFC, AP
77	488.96	671029.51	1197934.72	BFC, PC
78	489.11	671032.52	1197937.70	BFC, PT
79	489.84	671032.57	1197949.20	BFC, PC
80	490.07	671029.59	1197952.22	BFC, PT
81	490.27	671016.09	1197952.28	BFC, AP
82	494.99	671016.41	1198023.28	BFC, AP
83	494.79	671030.26	1198023.22	BFC, PC
84	495.05	671032.68	1198026.37	BFC, PCC
85	495.69	671029.12	1198031.68	BFC, MC
86	496.17	671023.07	1198033.75	BFC, PT
87	496.32	670993.83	1198033.88	BFC, PC
88	496.47	670987.77	1198031.87	BFC, MC
89	496.05	670984.16	1198026.59	BFC, PCC
90	495.87	670986.56	1198023.41	BFC, PT
91	496.13	671003.91	1198023.33	BFC, AP
92	491.80	671003.59	1197952.33	BFC, AP
93	491.55	670986.59	1197952.41	BFC, PC
94	491.32	670983.57	1197949.42	BFC, PT
95	490.57	670983.52	1197936.93	BFC, PC
96	490.44	670986.50	1197933.91	BFC, PT
97	490.69	671003.50	1197933.84	BFC, AP
98	486.15	671003.10	1197844.34	BFC, AP
99	485.89	670985.60	1197844.41	BFC, PC
100	485.88	670983.09	1197841.93	BFC, PT
101	485.90	670983.09	1197840.93	BFC, PC
102	485.87	670985.98	1197833.84	BFC, MC
103	485.82	670993.04	1197830.88	BFC, PT
104	485.11	671021.54	1197830.75	BFC, PC
105	484.27	671028.98	1197833.80	BFC, MC
106	484.11	671032.09	1197841.21	BFC, PT
107	485.49	670959.10	1197844.53	BFC, PC
108	485.44	670956.61	1197847.05	BFC, PT
109	485.23	670942.61	1197847.11	BFC, AP
110	489.84	670943.01	1197935.11	BFC, AP
111	490.05	670957.01	1197935.04	BFC, PC
112	490.24	670959.52	1197937.53	BFC, PT
113	490.96	670959.57	1197949.53	BFC, PC
114	491.07	670957.09	1197952.04	BFC, PT
115	490.86	670943.09	1197952.11	BFC, AP
116	495.25	670943.41	1198024.11	BFC, AP
117	495.45	670956.98	1198024.05	BFC, PC
118	495.72	670959.35	1198027.37	BFC, PCC
119	496.00	670955.72	1198032.22	BFC, MC
120	496.55	670949.96	1198034.08	BFC, PT
121	496.62	670936.94	1198034.14	FL, CC
122	496.70	670920.96	1198034.21	BFC, PC

POINT TABLE FOR GR-01				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
123	496.47	670915.17	1198032.40	BFC, MC
124	496.20	670911.50	1198027.58	BFC, PCC
125	495.95	670913.84	1198024.24	BFC, PT
126	495.70	670930.41	1198024.17	BFC, AP
127	491.56	670930.09	1197952.17	BFC, AP
128	491.82	670913.09	1197952.24	BFC, PC
129	491.71	670910.58	1197949.75	BFC, PT
130	490.98	670910.52	1197936.75	BFC, PC
131	490.80	670913.01	1197934.24	BFC, PT
132	490.54	670930.01	1197934.17	BFC, AP
133	486.46	670929.60	1197844.17	BFC, AP
134	486.72	670912.60	1197844.24	BFC, PC
135	486.79	670910.09	1197841.75	BFC, PT
136	486.80	670910.09	1197841.26	BFC, PC
137	486.96	670912.98	1197834.17	BFC, MC
138	487.45	670920.04	1197831.21	BFC, PT
139	487.05	670936.16	1197831.14	FL, CC
140	486.92	670949.04	1197831.08	BFC, PC
141	485.78	670956.13	1197833.98	BFC, MC
142	485.54	670959.09	1197841.03	BFC, PT
143	487.80	670863.16	1197831.47	FL, CC
144	487.74	670876.04	1197831.41	BFC, PC
145	487.18	670883.13	1197834.31	BFC, MC
146	486.80	670886.09	1197841.36	BFC, PT
147	486.75	670886.10	1197844.86	BFC, PC
148	486.68	670883.61	1197847.37	BFC, PT
149	486.44	670869.61	1197847.44	BFC, AP
150	490.65	670870.01	1197935.44	BFC, AP
151	490.86	670884.01	1197935.37	BFC, PC
152	491.03	670886.52	1197937.86	BFC, PT
153	491.71	670886.58	1197949.86	BFC, PC
154	491.82	670884.09	1197952.37	BFC, PT
155	491.61	670870.09	1197952.44	BFC, AP
156	495.74	670870.41	1198024.44	BFC, AP
157	495.95	670883.98	1198024.37	BFC, PC
158	496.20	670886.35	1198027.70	BFC, PCC
159	496.52	670882.72	1198032.54	BFC, MC
160	496.85	670876.96	1198034.41	BFC, PT
161	496.97	670863.94	1198034.46	FL, CC
162	496.28	670857.41	1198024.49	BFC, AP
163	492.17	670857.09	1197952.49	BFC, AP
164	491.14	670857.01	1197934.49	BFC, AP
165	486.83	670856.60	1197844.50	BFC, AP
166	487.53	670926.51	1197785.18	BFC, AP
167	487.27	670926.59	1197802.68	BFC, PC
168	487.19	670929.10	1197805.17	BFC, PT
169	486.96	670942.10	1197805.12	BFC, PC
170	486.94	670944.59	1197802.60	BFC, PT
171	487.20	670944.51	1197785.10	BFC, AP
172	485.64	671007.51	1197784.82	BFC, AP
173	486.22	671007.98	1197778.32	BW
174	485.38	671007.59	1197802.32	BFC, PC
175	485.28	671010.10	1197804.81	BFC, PT
176	485.73	671176.68	1197804.05	BFC, PC
177	484.87	671187.23	1197801.67	BFC, MC
178	484.07	671195.78	1197795.05	BFC, PT
179	484.45	671213.83	1197773.36	BFC, ME
180	485.16	671228.93	1197895.85	BFC, PC, ME
181	488.56	671211.55	1197903.39	BFC, MC
182	489.34	671204.45	1197920.96	BFC, PT



Know what's below.
Call before you dig.



APPROVED


CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 08/26/2022

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.

ABBREVIATION TABLE	
AP	ANGLE POINT
BFC	BOTTOM FACE OF CURB
BFW	BOTTOM FACE OF WALL
BR	BOTTOM OF RAMP
BS	BOTTOM OF STAIR
BW	BACK OF WALK
CC	CURB CUT
CVF	CONTRACTOR TO VERIFY IN FIELD
EA	EDGE OF ASPHALT
EC	EDGE OF CONCRETE
ES	EDGE OF SIDEWALK
FL	FLOW LINE
MC	MIDDLE OF CURVE
ME	MATCH EXISTING
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENT
TBC	TOP BACK OF CURB
TBW	TOP BACK OF WALL
TR	TOP OF RAMP
TS	TOP OF STAIR

NOTE:
SYMBOLS NOT TO SCALE

100 % REVIEW SUBMITTAL



Parametrix

ENGINEERING · PLANNING · ENVIRONMENTAL SCIENCES

1019 39TH AVENUE SE, SUITE 100 | PUYALL

PATH: U:\P50\Projects\Clients\217-2312-004_SHB&TOParking&Expansion\995\cs\CAOD.DWG PLOTTED BY: patirius DATE: Thursday, July 28, 2022 11:43:05 AM LAYOUT: GR-17

POINT TABLE FOR GR-02				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
200	497.96	671179.11	1198067.05	BFC, PT
201	500.23	671179.24	1198096.05	BFC, PC
202	500.79	671177.43	1198101.83	BFC, MC
203	501.28	671172.61	1198105.50	BFC, PCC
204	501.09	671169.27	1198103.16	BFC, PT
205	500.40	671169.19	1198086.10	BFC, AP
206	499.90	671168.19	1198084.60	CC
207	499.90	671151.45	1198084.67	CC
208	499.90	671110.68	1198084.87	CC
209	500.24	671097.19	1198086.41	BFC, AP
210	501.27	671097.27	1198103.91	BFC, PC
211	501.45	671094.78	1198106.43	BFC, PT
212	501.56	671081.78	1198106.48	BFC, PC
213	501.43	671079.27	1198104.00	BFC, PT
214	500.40	671079.19	1198086.50	BFC, AP
215	499.90	671077.20	1198085.01	CC
216	500.97	671016.20	1198087.78	BFC, AP
217	501.96	671016.27	1198104.28	BFC, PC
218	502.14	671013.78	1198106.79	BFC, PT
219	502.32	670991.78	1198106.89	BFC, PC
220	502.19	670989.27	1198104.40	BFC, PT
221	501.20	670989.20	1198087.90	BFC, AP
222	502.01	670926.19	1198087.18	BFC, AP
223	502.73	670926.27	1198104.68	BFC, PC
224	502.90	670923.78	1198107.20	BFC, PT
225	502.92	670921.28	1198107.21	BFC, PC
226	502.29	670914.20	1198104.31	BFC, MC
227	501.65	670911.24	1198097.25	BFC, PT
228	499.16	670911.11	1198068.25	BFC, PC
229	499.03	670914.01	1198061.17	BFC, MC
230	498.65	670921.06	1198058.21	BFC, PT
231	498.13	670923.56	1198058.20	BFC, PC
232	498.18	670926.07	1198060.68	BFC, PT
233	499.05	670926.14	1198075.18	BFC, AP
234	498.80	670991.14	1198074.89	BFC, AP
235	497.93	670991.07	1198060.39	BFC, PC
236	497.76	670993.56	1198057.88	BFC, PT
237	497.66	671013.56	1198057.79	BFC, PC
238	497.80	671016.07	1198060.28	BFC, PT
239	498.67	671016.14	1198074.78	BFC, AP
240	498.34	671080.14	1198074.49	BFC, AP
241	497.47	671080.07	1198059.99	BFC, PC
242	497.30	671082.56	1198057.48	BFC, PT
243	497.24	671094.56	1198057.43	BFC, PC
244	497.38	671097.07	1198059.92	BFC, PT
245	498.25	671097.14	1198074.42	BFC, AP
246	498.02	671169.14	1198074.09	BFC, AP
247	497.18	671169.07	1198060.02	BFC, PC
248	497.08	671172.40	1198057.65	BFC, PCC
249	497.47	671177.24	1198061.28	BFC, MC
250	504.15	671179.43	1198140.05	BFC, PT
251	506.82	671179.57	1198169.05	BFC, PC
252	507.44	671177.76	1198174.83	BFC, MC
253	508.00	671172.94	1198178.50	BFC, PCC
254	507.81	671169.60	1198176.16	BFC, PT
255	507.22	671169.53	1198159.10	BFC, AP
256	506.75	671168.52	1198157.59	CC

POINT TABLE FOR GR-02				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
257	506.75	671151.91	1198157.67	506.31CC
258	506.75	671111.01	1198157.87	CC
259	507.09	671097.52	1198159.41	BFC, AP
260	508.12	671097.60	1198176.91	BFC, PC
261	508.29	671095.11	1198179.43	BFC, PT
262	508.40	671082.11	1198179.48	BFC, PC
263	508.28	671079.60	1198177.00	BFC, PT
264	507.25	671079.52	1198159.50	BFC, AP
265	506.75	671077.53	1198158.00	CC
266	507.84	671016.53	1198160.78	BFC, AP
267	508.83	671016.60	1198177.28	BFC, PC
268	508.00	671014.11	1198179.79	BFC, PT
269	509.19	670992.11	1198179.89	BFC, PC
270	509.06	670989.60	1198177.40	BFC, PT
271	508.07	670989.53	1198160.90	BFC, AP
272	508.58	670926.52	1198160.18	BFC, AP
273	509.61	670926.60	1198177.68	BFC, PC
274	509.79	670924.11	1198180.19	BFC, PT
275	509.81	670921.61	1198180.21	BFC, PC
276	509.17	670914.53	1198177.31	BFC, MC
277	508.54	670911.57	1198170.25	BFC, PT
278	505.80	670911.44	1198141.25	BFC, PC
279	505.08	670914.33	1198134.17	BFC, MC
280	504.36	670921.39	1198131.21	BFC, PT
281	504.34	670923.89	1198131.20	BFC, PC
282	504.47	670926.40	1198133.68	BFC, PT
283	505.34	670926.47	1198148.18	BFC, AP
284	504.79	670991.47	1198147.89	BFC, AP
285	503.92	670991.40	1198133.39	BFC, PC
286	503.75	670993.89	1198130.88	BFC, PT
287	503.58	671013.89	1198130.79	BFC, PC
288	503.70	671016.40	1198133.28	BFC, PT
289	504.57	671016.47	1198147.78	BFC, AP
290	504.03	671080.47	1198147.49	BFC, AP
291	503.16	671080.40	1198132.99	BFC, PC
292	502.99	671082.89	1198130.48	BFC, PT
293	502.89	671094.89	1198130.43	BFC, PC
294	503.01	671097.40	1198132.91	BFC, PT
295	503.88	671097.47	1198147.41	BFC, AP
296	503.72	671169.47	1198147.09	BFC, AP
297	502.88	671169.40	1198133.02	BFC, PC
298	502.79	671172.73	1198130.65	BFC, PCC
299	503.61	671177.57	1198134.28	BFC, MC
300	510.88	671179.76	1198213.04	BFC, PT
301	513.55	671179.89	1198242.04	BFC, PC
302	514.14	671178.08	1198247.83	BFC, MC
303	514.53	671173.27	1198251.50	BFC, PCC
304	514.32	671169.93	1198249.16	BFC, PT
305	513.33	671169.86	1198232.10	BFC, AP
306	512.83	671168.86	1198230.59	CC
307	512.83	671149.17	1198230.68	CC
308	512.83	671111.35	1198230.87	CC
309	513.08	671097.85	1198232.41	BFC, AP
310	514.11	671097.93	1198249.91	BFC, PC
311	514.27	671095.44	1198252.42	BFC, PT
312	514.34	671082.44	1198252.48	BFC, PC
313	514.20	671079.93	1198249.99	BFC, PT
314	513.17	671079.85	1198232.49	BFC, AP
315	512.83	671077.86	1198231.00	CC
316	513.52	671016.85	1198233.78	BFC, AP

POINT TABLE FOR GR-02				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
317	514.51	671016.93	1198250.28	BFC, PC
318	514.68	671014.44	1198252.79	BFC, PT
319	514.79	670992.44	1198252.89	BFC, PC
320	514.65	670989.93	1198250.40	BFC, PT
321	513.66	670989.85	1198233.90	BFC, AP
322	513.93	670926.85	1198233.18	BFC, AP
323	514.96	670926.93	1198250.68	BFC, PC
324	515.13	670924.44	1198253.19	BFC, PT
325	515.14	670921.94	1198253.21	BFC, PC
326	514.85	670914.86	1198250.31	BFC, MC
327	514.55	670911.90	1198243.25	BFC, PT
328	512.45	670911.77	1198214.25	BFC, PC
329	511.85	670914.66	1198207.17	BFC, MC
330	511.25	670921.72	1198204.21	BFC, PT
331	511.23	670924.22	1198204.19	BFC, PC
332	511.35	670926.73	1198206.68	BFC, PT
333	512.22	670926.80	1198221.18	BFC, AP
334	511.65	670991.80	1198220.85	BFC, AP
335	510.78	670991.73	1198206.35	BFC, PC
336	510.61	670994.22	1198203.84	BFC, PT
337	510.44	671014.22	1198203.79	BFC, PC
338	510.61	671016.73	1198206.28	BFC, PT
339	511.48	671016.80	1198220.78	BFC, AP
340	510.88	671080.80	1198220.49	BFC, AP
341	510.01	671080.73	1198205.99	BFC, PC
342	509.83	671083.22	1198203.48	BFC, PT
343	509.73	671095.22	1198203.43	BFC, PC
344	509.86	671097.73	1198205.91	BFC, PT
345	510.73	671097.80	1198220.41	BFC, AP
346	510.44	671169.79	1198220.09	BFC, AP
347	509.60	671169.73	1198206.02	BFC, PC
348	509.51	671173.05	1198203.65	BFC, PCC
349	510.21	671177.90	1198207.28	BFC, MC
350	521.28	671206.40	1198355.04	BFC, PC
351	521.98	671213.84	1198372.72	BFC, MC
352	522.40	671229.15	1198379.82	BFC, ME
353	523.68	671155.42	1198380.27	BFC, PC, ME
354	521.37	671173.12	1198372.90	BFC, MC
355	520.89	671180.40	1198355.16	BFC, PT
356	517.14	671180.09	1198286.04	BFC, PC
357	516.55	671178.23	1198280.28	BFC, MC
358	516.04	671173.38	1198276.65	BFC, PCC
359	516.12	671170.06	1198279.02	BFC, PT
360	516.96	671170.12	1198293.09	BFC, AP
361	516.72	671098.12	1198293.41	BFC, AP
362	515.85	671098.06	1198278.91	BFC, PC
363	515.71	671095.55	1198276.42	BFC, PT
364	515.77	671083.55	1198276.48	BFC, PC
365	515.93	671081.06	1198278.99	BFC, PT
366	516.80	671081.12	1198293.49	BFC, AP
367	517.12	671017.12	1198293.78	BFC, AP
368	516.25	671017.06	1198279.28	BFC, PC
369	516.12	671014.55	1198276.79	BFC, PT
370	516.18	671002.55	1198276.84	BFC, PC
371	516.34	671000.06	1198279.35	BFC, PT
372	517.21	671000.12	1198293.85	BFC, AP
373	517.65	670912.13	1198294.25	BFC, AP
374	516.78	670912.13	1198279.75	BFC, PC
375	516.67	670909.55	1198277.26	BFC, PT
376	516.67	670890.55	1198277.35	BFC, PC

POINT TABLE FOR GR-02				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
377	516.78	670888.06	1198279.86	BFC, PT
378	517.65	670888.13	1198294.36	BFC, AP
379	511.13	670872.80	1198221.43	BFC, AP
380	510.26	670872.73	1198206.93	BFC, PC
381	510.31	670875.22	1198204.42	BFC, PT
382	510.47	670877.72	1198204.40	BFC, PC
383	511.46	670884.81	1198207.30	BFC, MC
384	512.45	670887.77	1198214.36	BFC, PT
385	514.55	670887.90	1198243.36	BFC, PC
386	514.93	670885.00	1198250.44	BFC, MC
387	515.24	670877.94	1198253.40	BFC, PT
388	515.25	670875.44	1198253.41	BFC, PC
389	515.11	670872.93	1198250.93	BFC, PT
390	514.53	670872.85	1198233.43	BFC, AP
392	505.38	670872.47	1198148.43	BFC, AP
393	504.51	670872.40	1198133.93	BFC, PC
394	504.37	670874.89	1198131.42	BFC, PT
395	504.38	670877.39	1198131.40	BFC, PC
396	505.09	670884.48	1198134.30	BFC, MC
397	505.80	670887.44	1198141.36	BFC, PT
398	508.54	670887.57	1198170.36	BFC, PC
399	508.82	670884.67	1198177.44	BFC, MC
400	509.10	670877.61	1198180.40	BFC, PT
401	508.87	670875.11	1198180.42	BFC, PC
402	508.52	670872.60	1198177.93	BFC, PT
403	507.14	670872.52	1198160.43	BFC, AP
405	499.35	670872.14	1198075.43	BFC, AP
406	498.97	670872.08	1198060.93	BFC, PC
407	498.52	670874.56	1198058.42	BFC, PT
408	498.70	670877.06	1198058.41	BFC, PC
409	498.86	670884.15	1198061.30	BFC, MC
410	499.16	670887.11	1198068.36	BFC, PT
411	501.65	670887.24	1198097.36	BFC, PC
412	502.08	670884.34	1198104.44	BFC, MC
413	502.94	670877.28	1198107.40	BFC, PT
414	502.93	670874.78	1198107.42	BFC, PC
415	502.77	670872.27	1198104.93	BFC, PT
416	501.74	670872.19	1198087.43	BFC, AP

LAYOUT: GR-18 PATH: U:\P50\Projects\Client\312-Bentley\312-217-004-SH-B2\TopParkingExpansion\995\cscs\CADD\DWG PLOTTED BY: petirus DATE: Thursday, July 28, 2022 11:43:12 AM

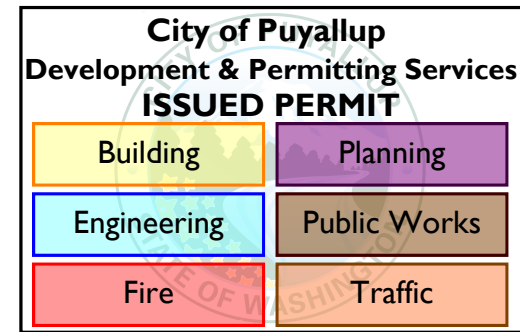
POINT TABLE FOR GR-03				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
500	497.12	670847.96	1198034.54	BFC, PC
501	496.99	670842.17	1198032.73	BFC, MC
502	496.76	670838.50	1198027.91	BFC, PCC
503	496.53	670840.84	1198024.57	BFC, PT
504	492.42	670840.09	1197952.57	BFC, PC
505	492.32	670837.58	1197950.08	BFC, PT
506	491.57	670837.52	1197937.08	BFC, PC
507	491.39	670840.01	1197934.57	BFC, PT
508	487.09	670839.60	1197844.57	BFC, PC
509	487.16	670837.09	1197842.08	BFC, PT
510	487.16	670837.09	1197841.58	BFC, PC
511	487.30	670839.98	1197834.50	BFC, MC
512	487.88	670847.04	1197831.54	BFC, PT
513	487.12	670813.10	1197845.19	BFC, PC
514	487.06	670810.61	1197847.70	BFC, PT
515	486.85	670796.62	1197847.77	BFC, AP
516	491.21	670797.01	1197935.76	BFC, AP
517	491.44	670811.01	1197935.70	BFC, PC
518	491.63	670813.52	1197938.19	BFC, PT
519	492.32	670813.58	1197950.19	BFC, PC
520	492.41	670811.09	1197952.70	BFC, PT
521	492.16	670797.09	1197952.76	BFC, AP
522	496.33	670797.41	1198024.76	BFC, AP
523	496.53	670810.98	1198024.70	BFC, PC
524	496.76	670813.35	1198028.03	BFC, PCC
525	497.31	670809.72	1198032.87	BFC, MC
526	497.55	670803.96	1198034.73	BFC, PT
527	497.67	670790.94	1198034.79	FL, CC
528	497.82	670774.96	1198034.86	BFC, PC
529	497.68	670769.18	1198033.06	BFC, MC
530	497.45	670765.50	1198028.24	BFC, PCC
531	497.22	670767.84	1198024.90	BFC, PT
532	496.97	670784.41	1198024.82	BFC, AP
533	492.72	670784.09	1197952.82	BFC, AP
534	492.97	670767.09	1197952.90	BFC, PC
535	492.86	670764.58	1197950.41	BFC, PT
536	492.09	670764.52	1197937.41	BFC, PC
537	491.91	670767.01	1197934.90	BFC, PT
538	491.65	670784.01	1197934.82	BFC, AP
539	487.19	670783.60	1197844.82	BFC, AP
540	487.45	670766.60	1197844.90	BFC, PC
541	487.52	670764.09	1197842.41	BFC, PT
542	487.53	670764.09	1197841.91	BFC, PC
543	487.64	670766.99	1197834.83	BFC, MC
544	488.25	670774.04	1197831.87	BFC, PT
545	487.89	670790.16	1197831.80	FL, CC
546	488.10	670803.04	1197831.74	BFC, PC
547	487.32	670810.13	1197834.63	BFC, MC
548	487.16	670813.09	1197841.69	BFC, PT
549	487.48	670740.10	1197845.52	BFC, PC
550	487.43	670737.62	1197848.03	BFC, PT
551	487.22	670723.62	1197848.09	BFC, AP
552	491.76	670724.01	1197936.09	BFC, AP
553	491.97	670738.01	1197936.03	BFC, PC
554	492.15	670740.52	1197938.52	BFC, PT
555	492.86	670740.58	1197950.52	BFC, PC
556	492.97	670738.09	1197953.03	BFC, PT
557	492.76	670724.09	1197953.09	BFC, AP
558	497.01	670724.41	1198025.09	BFC, AP
559	497.22	670737.98	1198025.03	BFC, PC

POINT TABLE FOR GR-03				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
560	497.45	670740.36	1198028.35	BC, PCC
561	497.68	670736.72	1198033.20	BFC, MC
562	498.25	670730.96	1198035.06	BFC, PT
563	498.39	670716.23	1198035.13	FL, CC
564	498.56	670698.49	1198035.21	BFC, PC
565	498.34	670692.71	1198033.40	BFC, MC
566	498.11	670689.03	1198028.58	BFC, PCC
567	497.94	670691.37	1198025.24	BFC, PT
568	497.69	670707.94	1198025.17	BFC, AP
569	493.34	670707.62	1197843.17	BFC, AP
570	493.62	670690.62	1197953.24	BFC, PC
571	493.52	670688.11	1197950.75	BFC, PT
572	492.74	670688.05	1197937.75	BFC, PC
573	492.54	670690.54	1197935.24	BFC, PT
574	492.27	670707.54	1197935.17	BFC, AP
575	487.59	670707.13	1197845.17	BFC, AP
576	487.84	670690.13	1197845.24	BFC, PC
577	487.91	670687.62	1197842.76	BFC, PT
578	487.92	670687.62	1197842.26	BFC, PC
579	488.02	670690.52	1197835.17	BFC, MC
580	488.13	670697.56	1197832.21	BFC, PT
581	488.53	670717.16	1197832.12	FL, CC
582	488.47	670730.04	1197832.07	BFC, PC
583	487.64	670737.13	1197834.96	BFC, MC
584	487.53	670740.09	1197842.02	BFC, PT
585	499.70	670664.55	1198047.98	BFC, PC
586	499.59	670662.03	1198045.49	BFC, PT
587	499.85	670644.53	1198045.57	BFC, AP
588	494.45	670644.13	1197955.57	BFC, AP
589	494.19	670661.63	1197955.49	BFC, PC
590	494.00	670664.12	1197952.98	BFC, PT
591	493.22	670664.06	1197939.98	BFC, PC
592	493.11	670661.55	1197937.49	BFC, PT
593	493.37	670644.05	1197937.57	BFC, AP
594	488.54	670643.64	1197847.57	BFC, AP
595	488.28	670661.14	1197847.49	BFC, PC
596	488.24	670663.63	1197844.98	BFC, PT
597	488.27	670663.63	1197842.36	BFC, PC
598	488.37	670660.66	1197835.31	BFC, MC
599	488.35	670653.57	1197832.41	BFC, PT
600	488.44	670635.06	1197832.49	BFC, PC
601	488.65	670599.73	1197840.16	BFC, MC
602	488.86	670570.56	1197861.54	BFC, PRC
603	489.06	670532.99	1197889.30	BFC, MC
604	489.28	670486.80	1197899.28	BFC, PT
605	489.67	670486.66	1197873.27	BFC, PC
606	489.95	670522.00	1197865.60	BFC, MC
607	489.25	670551.17	1197844.22	BFC, PRC
608	489.10	670577.12	1197822.71	BFC, MC
609	488.94	670608.27	1197809.81	BFC, PRC
610	488.97	670612.07	1197804.93	BFC, PT
611	489.24	670611.98	1197786.80	BFC, AP
612	488.72	670716.98	1197786.13	BFC, AP
613	488.46	670717.06	1197803.63	BFC, PC
614	488.41	670719.57	1197806.12	BFC, PT
615	488.34	670732.57	1197806.06	BFC, PC
616	488.37	670735.06	1197803.55	BFC, PT
617	488.63	670734.98	1197786.05	BFC, AP
618	488.32	670797.98	1197785.76	BFC, AP
619	488.05	670798.06	1197803.26	BFC, PC

POINT TABLE FOR GR-03				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
620	488.00	670800.57	1197805.75	BFC, PT
621	487.87	670828.10	1197805.63	BFC, PC
622	487.89	670830.59	1197803.12	BFC, PT
623	488.15	670830.51	1197785.62	BFC, AP
624	489.01	670594.87	1197814.03	BFC
625	488.78	670594.56	1197786.18	ES
626	488.87	670594.54	1197780.18	ES
627	488.97	670594.54	1197773.65	BW
628	488.96	670576.45	1197773.73	BW
629	488.90	670576.24	1197785.78	BW
630	488.82	670576.82	1197793.77	ES
631	487.55	670484.22	1197794.19	ES, ME
632	487.68	670484.24	1197786.19	ES, ME



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CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 08/26/2022

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ABBREVIATION TABLE	
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PROJECT NAME

SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION

PUYALLUP, WA

GRADING POINT TABLES

DRAWING NO.
47 OF 58

GR-18

PATH: U:\P50\Projects\Clients\312-Bentley\217-7312-004-SH-B&T\ParkingExpansion\995\cscs\CADD\DWG PLOTTED BY: petlirus DATE: Thursday, July 28, 2022 11:43:18 AM LAYOUT: GR-19

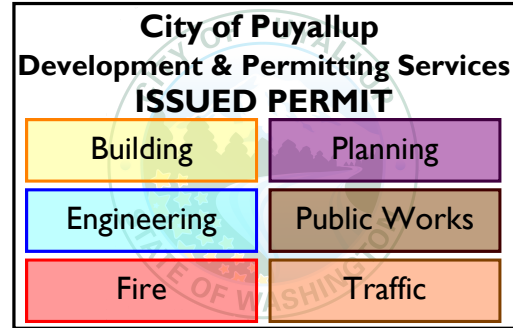
POINT TABLE FOR GR-04				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
700	500.86	670842.20	1198087.56	FL, CC
701	500.86	670802.28	1198087.74	CC
702	501.36	670800.20	1198087.75	BFC, AP
703	502.40	670800.27	1198105.29	BFC, PC
704	502.55	670797.79	1198107.80	BFC, PT
705	502.54	670784.79	1198107.82	BF, PC
706	502.39	670782.27	1198105.33	BFC, PT
707	501.36	670782.20	1198087.83	BFC, AP
708	500.86	670780.21	1198087.84	CC
709	501.73	670701.20	1198088.20	BFC, AP
710	502.76	670701.28	1198105.70	BFC, PC
711	502.92	670698.79	1198108.21	BFC, PCC
712	502.78	670691.73	1198105.31	BFC, MC
713	502.37	670688.77	1198098.25	BFC, PT
714	500.63	670688.64	1198069.25	BFC, PC
715	500.15	670691.54	1198062.17	BFC, MC
716	500.00	670698.60	1198059.21	BFC, PT
717	499.99	670699.57	1198059.20	BFC, PC
718	500.11	670702.08	1198061.69	BFC, PT
719	500.98	670702.14	1198076.19	BFC, AP
720	500.22	670782.14	1198075.83	BFC, AP
721	499.35	670782.08	1198061.33	BFC, PC
722	499.17	670784.56	1198058.82	BFC, PT
723	499.06	670796.56	1198058.77	BFC, PC
724	499.18	670799.08	1198061.26	BFC, PT
725	500.05	670799.14	1198075.76	BFC, AP
727	505.98	670802.77	1198160.69	CC
728	506.48	670800.52	1198160.75	BFC, AP
729	507.47	670800.60	1198178.29	BFC, PC
730	507.59	670798.11	1198180.80	BFC, PT
731	507.51	670785.11	1198180.82	BFC, PC
732	507.36	670782.60	1198178.33	BFC, PT
733	506.48	670782.52	1198160.83	BFC, AP
734	505.98	670780.54	1198160.84	CC
735	506.72	670701.52	1198161.20	BFC, AP
736	507.75	670701.60	1198178.70	BFC, PC
737	507.91	670699.10	1198181.21	BFC, PCC
738	507.26	670692.05	1198178.30	BFC, MC
739	506.87	670689.10	1198171.25	BFC, PT
740	505.01	670688.97	1198142.25	BFC, PC
741	504.57	670691.87	1198135.17	BFC, MC
742	504.36	670698.93	1198132.21	BFC, PT
743	504.36	670699.89	1198132.20	BFC, PC
744	504.49	670702.41	1198134.69	BFC, PT
745	505.36	670702.47	1198149.19	BFC, AP
746	505.00	670782.47	1198148.83	BFC, AP
747	504.13	670782.40	1198134.33	BFC, PC
748	503.98	670784.89	1198131.82	BFC, PT
749	503.98	670796.89	1198131.77	BFC, PC
750	504.14	670799.40	1198134.26	BFC, PT
751	505.01	670799.47	1198148.76	BFC, AP
752	514.03	670842.86	1198233.56	CC
753	514.03	670814.35	1198233.69	CC
754	514.44	670800.85	1198233.75	BFC, AP
755	515.47	670800.93	1198251.25	BFC, PC
756	515.63	670798.44	1198253.76	BFC, PT
757	515.70	670785.44	1198253.82	BFC, PC
758	515.56	670782.93	1198251.33	BFC, PT
759	514.53	670782.85	1198233.83	BFC, AP

POINT TABLE FOR GR-04				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
760	514.03	670780.86	1198233.84	CC
761	514.80	670728.85	1198234.07	BFC, AP
762	515.60	670728.93	1198251.57	BFC, PC
763	515.70	670726.44	1198254.09	BFC, PT
764	515.77	670723.01	1198254.10	BFC, PC
765	515.60	670719.18	1198253.36	BFC, MC
766	515.30	670715.93	1198251.20	BFC, PT
767	513.84	670700.51	1198235.92	BFC, PC
768	512.55	670694.06	1198227.41	BFC, MC
769	511.14	670690.24	1198217.44	BFC, PCC
770	510.12	670692.26	1198208.84	BFC, MC
771	509.35	670700.32	1198205.21	BFC, PCC
772	509.48	670702.73	1198207.70	BFC, PT
773	510.35	670702.80	1198222.19	BFC, AP
774	509.97	670782.80	1198221.83	BFC, AP
775	509.10	670782.73	1198207.33	BFC, PC
776	508.95	670785.22	1198204.82	BFC, PT
777	509.09	670797.22	1198204.77	BFC, PC
778	509.20	670799.73	1198207.26	BFC, PT
779	510.07	670799.80	1198221.75	BFC, AP
780	518.09	670800.13	1198294.75	BFC, AP
781	517.22	670800.06	1198280.25	BFC, PC
782	517.08	670797.55	1198277.77	BFC, PT
783	517.14	670785.55	1198277.82	BFC, PC
784	517.30	670783.06	1198280.33	BFC, PT
785	518.17	670783.13	1198294.83	BFC, AP
786	518.12	670719.13	1198295.12	BFC, AP
787	517.21	670719.06	1198280.02	BFC, PC
788	517.08	670717.00	1198277.57	BFC, PCC
789	516.83	670707.30	1198274.28	BFC, MC
790	516.02	670699.03	1198268.24	BFC, PT
791	514.56	670683.61	1198252.96	BFC, PC
792	512.71	670670.09	1198232.91	BFC, MC
793	510.75	670665.27	1198209.21	BFC, PT
794	508.14	670665.15	1198182.98	BFC, PC
795	507.96	670662.64	1198180.49	BFC, PT
796	508.23	670645.14	1198180.57	BFC, AP
797	500.93	670644.62	1198063.57	BFC, AP
798	500.67	670662.12	1198063.49	BFC, PC
799	500.48	670664.60	1198060.98	BFC, PT

POINT TABLE FOR GR-05				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
800	491.64	670393.85	1197899.69	BFC, PT, ME
801	491.87	670385.56	1197900.08	BFC, MC, ME
802	492.09	670377.32	1197901.15	BFC, PC, ME
803	492.20	670371.93	1197902.07	BFC, ME
804	492.32	670366.54	1197903.00	BFC, PT, ME



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BY CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 08/26/2022

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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NOTE:
SYMBOLS NOT TO SCALE

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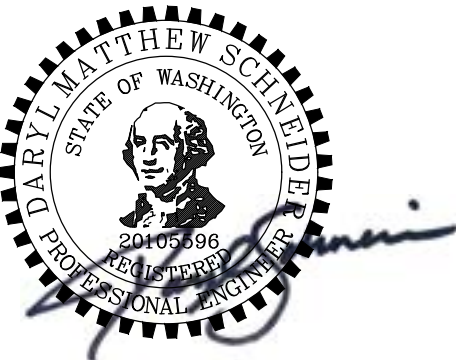
REVISIONS	DATE	BY	DESIGNED WZG
			DRAWN RLP
			CHECKED DMS
			APPROVED DMS

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

FILE NAME
05-PSO731200C-GR

JOB No.
217-7312-004

DATE
JULY 2022



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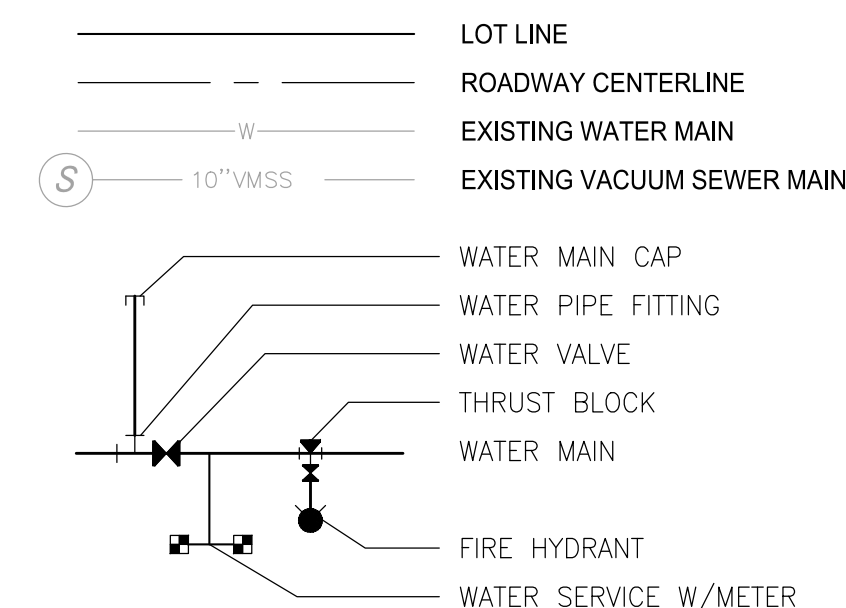
PROJECT NAME

SOUTH HILL BUSINESS &
TECHNOLOGY CENTER
PARKING EXPANSION
PUYALLUP, WA

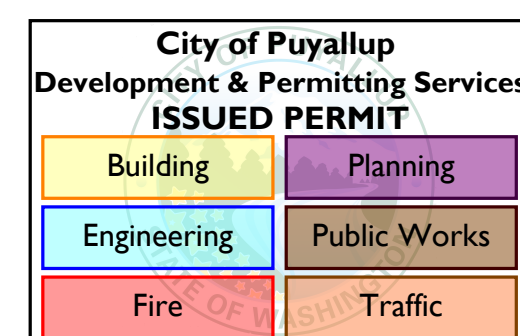
GRADING POINT TABLES

DRAWING NO.
48 OF 58

GR-19



1. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THIS WORK.
2. SYMBOLS ARE NOT TRUE SIZE
3. MAINTAIN 3' MIN COVER OVER WATER MAIN FROM FINISHED GRADE.
4. MAINTAIN 10' MIN HORIZONTAL AND 1.5' MIN VERTICAL SEPARATION BETWEEN WATER AND SEWER MAINS UNLESS OTHERWISE NOTED.
5. A MINIMUM 6-INCH SAND CUSHION IS REQUIRED FOR ANY UTILITY LINE WITHIN 6-INCHES OF ANOTHER UTILITY LINE AT CROSSING.
6. PIPE LENGTHS ARE FOR CALCULATION PURPOSES ONLY. BID QUANTITIES SHALL BE CALCULATED AS REQUIRED.
7. THE CONTRACTOR SHALL BE AWARE THAT WATER MAIN DEFLECTION MAY BE REQUIRED TO AVOID PROPOSED AND EXISTING UTILITIES. DEFLECTIONS SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS AND SHALL NOT CREATE ADDITIONAL HIGH OR LOW POINTS IN THE MAIN. THE CONTRACTOR SHALL VERIFY EXISTING UTILITY DEPTH, LOCATION, AND SHALL CALCULATE WATER DEFLECTIONS ACCORDINGLY. WATER MAIN PROFILES AS SHOWN ON THE PLANS ARE INFORMATIONAL AND DO NOT REPRESENT THE ACTUAL DEFLECTION TRANSITION LENGTHS. ANY DEFLECTION OTHER THAN THE MANUFACTURER'S STANDARD ALLOWANCE SHALL BE APPROVED BY THE CITY'S CONSTRUCTION INSPECTOR.
8. POTHOLE AND VERIFY EXACT LOCATIONS OF UTILITIES PRIOR TO INSTALLATION OF UTILITIES.
9. ALL WATER METER BOXES AND LIDS LOCATED WITHIN DRIVABLE SURFACES SHALL BE TRAFFIC RATED BOXES WITH LIDS.
10. CONTRACTOR TO USE VERTICAL AND HORIZONTAL BENDS AS NEEDED.
11. THRUST BLOCKING SHALL BE INSTALLED AT ALL TEES, BENDS AND DEAD ENDS PER STANDARD DETAIL ON SHEET WA-02.
12. ALL CONSTRUCTION MUST COMPLY WITH THE WSDOT STANDARD SPECIFICATION (LATEST EDITION) UNLESS OTHERWISE SUPERCEDED BY CITY STANDARDS.
13. VALVE OPERATION SHALL BE BY AUTHORIZED CITY PERSONNEL ONLY. A MINIMUM OF 24 HOUR NOTICE SHALL BE PROVIDED TO CITY PERSONNEL FOR VALVE OPERATION ACTIVITIES.
14. ALL MATERIAL USED FOR CONSTRUCTION OF IDENTIFIED IMPROVEMENTS SHALL BE REVIEWED AND APPROVED BY THE CITY PRIOR TO INSTALLATION.



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ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

FILE NAME	04-PS0731200C-WA
JOB No.	217-7312-004
DATE	JULY 2022



PROJECT NAME

**SOUTH HILL BUSINESS &
TECHNOLOGY CENTER
PARKING EXPANSION**

PUYALLUP, WA

DRAWING NO.
49 OF 58

WA-01

LAYOUT: WA-02
PATH: U:\P50\Projects\Clients\7312-004_SHE&T\Working\Expansion\9955ca\CAUD.DWG
PLOTTED BY: peltrius DATE: Thursday, July 28, 2022 11:44:55 AM

WATER SYSTEM NOTES:

1. All work in City right-of-way requires a permit from the City of Puyallup. Prior to any work commencing, the general contractor shall arrange for a preconstruction meeting at the Development Services Center to be attended by all contractors that will perform work shown on the engineering plans, representatives from all applicable Utility Companies, the project owner and appropriate City staff. Contact Engineering Services to schedule the meeting (253) 841-5568. The contractor is responsible to have their own approved set of plans at the meeting.
2. After completion of all items shown on these plans and before acceptance of the project, the contractor shall obtain a "punch list" prepared by the City's inspector detailing remaining items of work to be completed. All items of work shown on these plans shall be completed to the satisfaction of the City prior to acceptance of the water system and provision of sanitary sewer service.
3. All materials and workmanship shall conform to the Standard Specifications for Road, Bridge, and Municipal Construction (hereinafter referred to as the "Standard Specifications"), Washington State Department of Transportation and American Public Works Association, Washington State Chapter, latest edition, unless superseded or amended by the City of Puyallup City Standards for Public Works Engineering and Construction (hereinafter referred to as the "City Standards"), or as directed by Fruitland Mutual Water Company (FMWC), Valley Water (VW), or Tacoma City Water (TCW) is the purveyor.
4. A copy of these approved plans and applicable city developer specifications and details shall be on site during construction.
5. Any revisions made to these plans must be reviewed and approved by the developer's engineer, the Engineering Services Staff, and the FMWC, VW or TCW when served by that purveyor, prior to any implementation in the field. The City shall not be responsible for any errors and/or omissions on these plans.
6. The contractor shall have all utilities verified on the ground prior to any construction. Call (811) at least two working days in advance. The owner and his/her engineer shall be contacted immediately if a conflict exists.
7. Any structure and/or obstruction which requires removal or relocation relating to this project shall be done so at the developer's expense.
8. Bacteriological (Coliform and Iron Bacteria) test samples will be taken by the City (or FMWC, VW or TCW when served by that purveyor) and paid for by the contractor, except for Capital Improvement Projects (CIP) which shall be paid for by the City.
9. Water mains shall have a minimum cover of 36 inches from paved final grade in improved right-of-way and improved easements, and a minimum of 48 inches in unimproved right-of-way and unimproved easements.

10. Pipe for water mains shall be ductile iron conforming to Section 7-09 of the Standard Specifications, Class 52 with tyton or approved equal joints. Pipe shall be cement lined in accordance with A.S.A. Specification A 21.4-1964.
11. Connections to existing water mains typically shall be wet taps through a tapping tee and tapping valve and shall be made by a city approved contractor. The tapping sleeve shall be Romac SST all stainless steel tapping sleeve or approved equal. A two-piece epoxy coated or ductile iron tapping sleeve may be used on ductile iron pipe, when the tap is smaller than the water main size i.e. 6-inch tap on 8-inch pipe. The City (or FMWC, VW or TCW when served by that purveyor) shall approve the time and location for these connections.
12. All water mains and appurtenances shall be hydrostatically tested at 200 psi in accordance with Standard Specification 7-09.3(23). Pressure testing shall not be performed until satisfactory purity samples have been received, except when new water mains are installed independently from the water system piping.
13. Fire hydrants shall be installed in accordance with City Standard Detail 03.05.01 and as directed by the City of Puyallup Fire Code Official.
14. Valve marker posts shall be installed where valve boxes are hidden from view or in unpaired areas. The installation shall be in accordance with City Standard Detail 03.01.02.
15. Resilient seated wedge gate valves shall be used for 10-inch mains and smaller. Butterfly valves shall be used for mains greater than 10 inches.
16. Pipe fitting for water mains shall be ductile iron and shall be mechanical joint conforming to AWWA Specification C1111-72.
17. Water main pipe and service connections shall be a minimum of 10 feet away from building foundations and/or roof lines.
18. Where a water main crosses the Northwest Gas pipeline, the water line shall be cased with PVC pipe a minimum of 10 feet beyond each side of the gas line easement. Contact Williams Northwest Pipeline before the crossing is made.
19. Trenching, bedding, and backfill for water mains shall be installed in accordance with City Standard Detail 06.01.01.
20. All commercial and industrial developments, irrigation systems, and multi-family water service connections shall be protected by a double check valve assembly or a reduced pressure backflow assembly as directed by the City (or FMWC, VW or TCW when served by that purveyor) conforming to City Standard Details 03.04.01, 03.04.02, and 03.04.03.
21. Any lead joint fitting disturbed during construction shall be replaced with a mechanical joint fitting at the contractor's expense.
22. When hydraulic fire flow modeling is required for a project, the City will issue a permit. The hydraulic modeling criteria is based on the projected 2030 water demand, while maintaining a minimum system pressure of 20 pounds per square inch and a maximum velocity of 10 feet per second.

23. When using a fire hydrant for non-firefighting purposes, a city hydrant meter must be used. Coordinate the acquisition of the hydrant meter with the City's Utility Billing Division at Puyallup City Hall. A city approved backflow protection assembly shall be installed by the person requesting use of a fire hydrant. The assembly shall be accompanied by a current backflow assembly test report. The test report shall be available at the site for the duration of the hydrant use.
24. Should a break occur on any City water main, the Contractor shall follow the City's adopted "Water Main Break Procedure" issued to them at the Pre-Construction Meeting and notify those connected to the system in the impacted area as outlined in the Procedure.
25. Water Main Repairs (References: AWWA C651-14 and WSDOT Standard Specification Section 7-09)

(Note: A planned water main repair shall be approved by the City Inspector and/or Water Division Supervisor prior to commencing work.)

- a. Repair without depressurization – Small leaks shall be repaired using repair bands while maintaining positive pressure in the water main. Valves surrounding the leak will be partially shut by the City Water Department to reduce the flow and pressure to the area. Blowoffs and hydrants in the reduced pressure area may be opened as needed to further reduce the pressure. The water main trench shall be over-excavated to allow water in the trench to be pumped out and maintained below the level of the water main. The repair shall be completed with the water main pressure remaining positive. After the repair is made, the system shall be fully pressurized and a visual leak inspection will be completed. The water main in the affected area shall be flushed to achieve three pipe volumes pulled from the pipe (distance measured from valve opened for flushing to the exit hydrant or blowoff).
- b. Repair/cut-in with depressurization – Trench shall be over excavated and dewatered below the water main. Flush water from pipe from each direction until it runs clear. Immediately prior to installation of a new pipe section for repair or cut in tee, all new fittings and pipe spools shall be swabbed with a five percent (5%) chlorine solution (minimum). The interior of the existing pipe shall be swabbed with a five percent (5%) chlorine solution at least 6 feet in each direction from exposed cut ends. The water main in the affected area shall be flushed to achieve three pipe volumes pulled from the pipe (distance measured from the valve opened for flushing to the exit hydrant or blowoff). Customers shall be notified after the water main is flushed and repairs have been completed, as outlined in the "Water Main Break Procedure."

26. New Water Main Installation:

- a. Each new water main section shall be delivered, stacked and stored onsite with ends plugged. The plugs shall remain in the pipe until each particular section is installed. National Sanitation Foundation (NSF) approved sixty-five percent (65%) calcium hypochlorite shall be added to the upstream end of each pipe section, and at each hydrant tee in the amount given in the table below (or per approved manufacturer specifications). The minimum amount of calcium hypochlorite added should be sufficient to achieve a 50 mg/L concentration within the impacted area.



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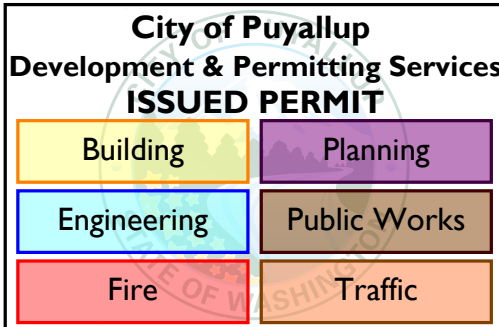
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PUYALLUP, WA

NOTE:
SYMBOLS NOT TO SCALE

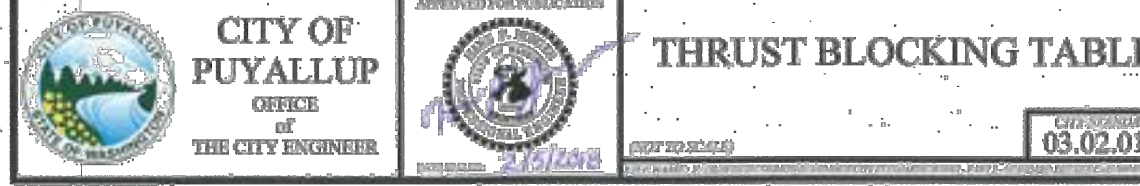
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DRAWING NO.
50 OF 58

WA-02



APPROVED
by *[Signature]*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE: **08/26/2022**
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.




65% Calcium Hypochlorite Addition per Pipe Section

Pipe Diameter (Inches)	Pipe Volume per 18 feet (gal)	5-gram tablets per pipe section	Hypochlorite Granules Ounces per 500 feet	Teaspoons per 18 feet	Maximum Fill Rate (gpm)
4	35	1	1.7	0.2	40
6	53	1	3.8	0.4	90
8	70	2	6.7	0.7	150
12	106	4	15.1	1.4	350
16	141	6	27	2.5	600

- a. New water mains shall be filled using an approved backflow prevention assembly. The water main shall be filled from the lower elevation end so that as the water main is filled, the chlorine is contacted, dissolved and spread relatively uniform through the length of the new water main. The fill rate shall be minimized so that the velocity of the water is less than 1 ft/sec (see table above). Successful pressure test and bacteriological tests shall be completed and provided to the City prior to any new water main connection to the existing water system.
- b. The chlorinated water will be allowed to remain in contact with the new water main system for 24 to 72 hours. After 24 hours, water may be added to the water main for the purposes of pressure testing. The water in the main used for pressure testing must remain in the water main until pressure test is completed. If necessary, liquid chlorine shall be injected into the water main with fill water to maintain a concentration in the water main above 50 mg/L. Under no circumstance shall "super" chlorinated water be allowed to sit within a new water main for more than 5 days.
- c. The chlorinated water will be allowed to remain in contact with the new water main system for 24 to 72 hours. After 24 hours, water may be added to the water main for the purposes of pressure testing. The water in the main used for pressure testing must remain in the water main until pressure test is completed. If necessary, liquid chlorine shall be injected into the water main with fill water to maintain a concentration in the water main above 50 mg/L. Under no circumstance shall "super" chlorinated water be allowed to sit within a new water main for more than 5 days.
- d. Pressure testing includes testing against new valves and hydrants. Each valve shall be tested by closing each in turn and reducing the pressure beyond the valve. The pressure on the back side of the valve should not be eliminated. Care must be taken that, during this process, positive pressure remains throughout the system being tested at all times. All hydrant foot valves shall be open during pressure testing so that the pressure test is against the hydrant valve. Pressure testing will not be allowed against any existing valves.
- e. After successful pressure testing, the water main shall be thoroughly flushed to remove all "super" chlorinated water from the new water main. Flushing of new or extended water mains shall be conducted per WSDOT Specification 7-09.3(24)A with a minimum velocity developed within the pipe while flushing of 2.5 feet per second (fps). All flushed water shall be dechlorinated prior to disposal. The Contractor shall be responsible for disposal of all chlorinated water flushed from mains. **The City shall approve the disposal method prior to implementation in the field.** The Contractor shall utilize on-site disposal methods, if available. Disposal of flush water to the sanitary sewer system shall not be allowed without written permission from the Water Pollution Control Plant (WPCP) Supervisor. Any planned discharge to a stormwater system shall be dechlorinated to a concentration of 0.1 ppm or less, pH adjusted (if necessary) to be between 6.5 and 8.5, and volumetrically and velocity controlled to prevent any resuspension of sediments. The City will require independent testing throughout the water discharge process to ensure compliance of these standards are met.
- f. Samples for bacteriological analysis shall be collected after flushing and again 24 hours after the first set of samples.
- g. All closure/final connection fittings shall be sprayed clean and then swabbed with a five percent (5%) chlorine solution immediately prior to installation per AWWA Standard C651. Additional samples for bacteriological analysis shall be collected from the immediate vicinity of the new or replaced water main and analyzed after the final connections are made. If necessary, additional flushing shall be conducted and additional samples shall be collected until satisfactory results are obtained.


LAYOUT: IL-00
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PLOTTED BY: petrus DATE: Thursday, July 28, 2022 11:45:46 AM









Catalog #:
Prepared By:
Project:
Date:
Type:

Mirada Post Top (MPP)

Outdoor LED Post Top





OVERVIEW	
Lumen Output Range	10,000 - 25,000
Wattage Range	67 - 191
Efficacy Range (LPW)	131 - 164
CCT (K)	3000, 4000, 5000
Controls	Standalone, Wireless
Weight lbs (kg) - AL14	55 (25)

QUICK LINKS

Ordering GuidePerformancePhotometricsDimensions

FEATURES & SPECIFICATIONS

Construction

- Rugged die-cast aluminum optical housing, cage, and fitter. Fitter contains factory pre-wired drivers and optional controls.
- Complete die-cast aluminum construction for maximum quality and surface finish.
- 1-PC die-cast aluminum cage with wire passages allows for IP66 full luminaire rating to protect integral components from harsh environments.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight: 55 lbs in carton.

Optical System

- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in IES Types 2, 3, 5W, FT.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93%.
- Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377.
- Minimum CRI of 70
- Integral louver (IL) and house-side shield (HS) options available for improved back-light control without sacrificing street side performance. See page 7 for more details.

Electrical

- High-performance programmable driver features over-voltage, undervoltage, short-circuit and over temperature protection. Custom lumen and wattage packages available.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High Voltage (347-480 Vac).
- L92 Calculated Life: >100K Hours (See Lumen Maintenance on Page 3)
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F). 72L Package is limited to 40°C.
- Power factor: >.90
- Input power stays constant over life.
- Field replaceable surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards.
- Internal power supplies and controls can be serviced via (2) integral fitter removable power trays.

Installation

- Designed to mount to 2-3/8"-3" OD x 3" to 4-1/2" tall tenon.
- Secures to tenon with 8 stainless steel set screws.
- 6" wire leads with strain relief zip-ties are provided in fitter for ease of wiring.


Warranty

- LSI luminaires carry a 5-year limited warranty. Refer to website for details.

Listings


- Listed to UL 1598 and UL 8750.
- Title 24 Compliant; see local ordinance for qualification information.
- Suitable for wet Locations
- IP66 rated Luminaire per IEC 60598.
- 3G rated for ANSI C136.31 high vibration applications.
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Specifications and dimensions subject to change without notice.



LSI Industries Inc. 10000 Alliance Rd. Cincinnati, OH 45242 • www.lsicorp.com
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Building

Planning


Engineering

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
APPROVED

BY: 
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE: 08/26/2022

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.

LEGEND:

 STREET LIGHT (33 TOTAL)

GENERAL NOTE:

- STREETLIGHTS SHALL BE LSI INDUSTRIES MIRADA POST TOP OUTDOOR LED POST TOP, TYPE 5 (MPP-LED-10L-SIL-5WW-40-70CRI) WITH THE FOLLOWING SPECIFICATIONS:
 - DELIVERED LUMENS: 9,619
 - WATTAGE: 73
 - COLOR TEMP: 4000 KELVIN, 70 CRI

CONSTRUCTION NOTE:

- CONSTRUCT LIGHT STANDARD FOUNDATION TYPE A PER WSDOT STANDARD PLAN J-28.30-03. INSTALL 20 FT TALL LIGHT STANDARD AND LUMINAIRE ON FOUNDATION.

NOTE TO REVIEWER:

PARKING LOT ILLUMINATION IS BASED ON IES RP-8-18, TABLE 17-2, WHICH RECOMMENDS A 0.46 FOOTCANDLE MINIMUM AND 15:1 (MAX:MIN) OR BETTER UNIFORMITY. THE PARKING LOT ILLUMINATION DESIGN SHOWN ON THIS SHEET HAS A 0.49 FOOTCANDLE MINIMUM AND 11:1 (MAX:MIN) UNIFORMITY.

POLES ARE 20' TALL AND ARE POST MOUNTED.

NOTE:
SYMBOLS NOT TO SCALE

100 % REVIEW SUBMITTAL

REVISIONS	DATE	BY	DESIGNED WZG
			DRAWN RLP
			CHECKED DMS
			APPROVED DMS


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FILE NAME
06-PSO731200C-ILL

JOB No.
217-7312-004

DATE
JULY 2022

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PROJECT NAME

SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION

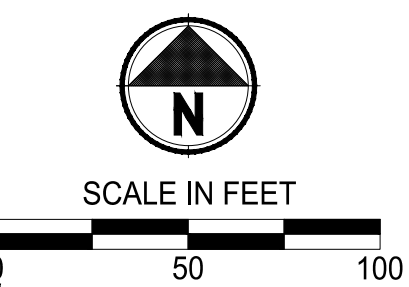
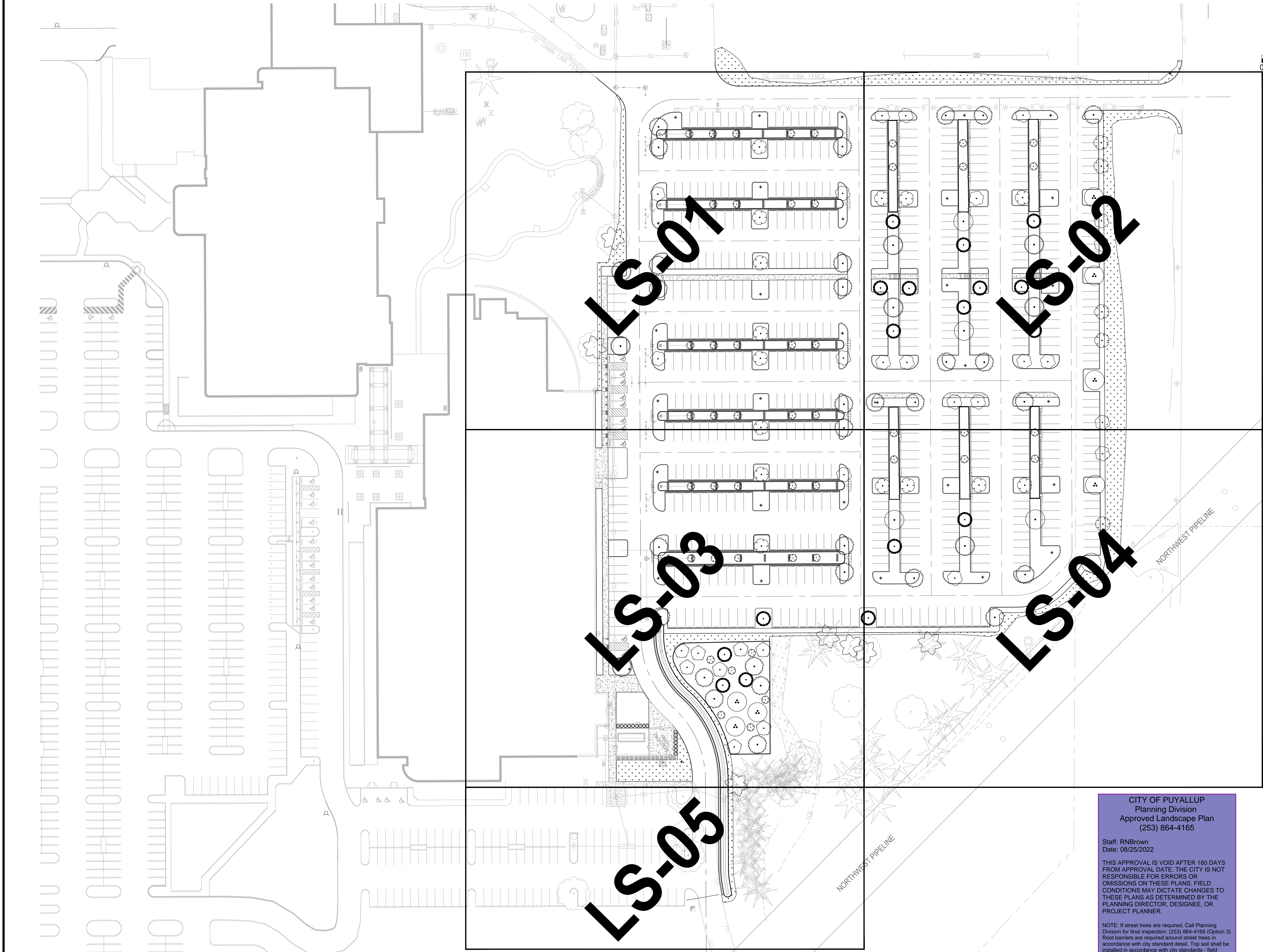
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ILLUMINATION PLAN COMPOSITE

DRAWING NO.
51 OF 58

IL-00

PATH: U:\PSD\Projects\Clients\312-Berroya\217-7312-004-SHB&OParkingExpansion\995\cs\CAAD\DWG PLOTTED BY: baileyd DATE: Thursday, July 28, 2022 12:37:02 PM LAYOUT: LS-00





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City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

LANDSCAPE LEGEND:

- RIVER BIRCH
- INCENSE CEDAR
- EUROPEAN HORNBEAM
- KOUSA DOGWOOD
- PACIFIC CRABAPPLE
- HONEYWOOD SERVICEBERRY
- PERSIAN PARROTIA
- BOULEVARD AMERICAN LINDEN
- WESTERN RED CEDAR
- EMERALD GREEN ARBORVITAE
- COMPACT CORAL BARBERRY
- RED TWIG DOGWOOD
- BLUE OAT GRASS
- COMPACT OREGON GRAPE
- FIREPOWER NANDINA
- DAVID VIBURNUM
- CHERRY BOMB BARBERRY
- ADAGIO GRASS
- SNOWBERRY
- GOLDFLAME SPIREA
- OCEANSPRAY

- STORMWATER PLANTING
- MEDITERRANEAN HEATH
- STELLA DE ORO DAYLILY
- MOUNT VERNON ENGLISH LAUREL
- RESTORATION PLANT MIX
- TURF GRASS HYDROSEED RESTORATION

NOTES:

- SEE SHEET LS-06 FOR LANDSCAPE SCHEDULE AND LANDSCAPE NOTES AND PLANTING DETAILS.
- LOCATE TREES NO CLOSER THAN 10' MINIMUM FROM UTILITY PIPES AT BIORETENTION CELLS.
- ALL RESTORATION AREAS SHOWN DIAGRAMMATICALLY ONLY. FIELD ADJUST AS NECESSARY TO MATCH ADJACENT EXISTING CONDITIONS. ALL AREAS DISTURBED BY CONSTRUCTION TO BE RESTORED.

CITY OF PUYALLUP
Planning Division
Approved Landscape Plan
(253) 864-4165

Staff: RNBrown
Date: 08/25/2022

THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY IS NOT RESPONSIBLE FOR ERRORS OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE PLANNING DIRECTOR, DESIGNEE, OR PROJECT PLANNER.

NOTE: If street trees are required, Call Planning Division for final inspection: (253) 864-4165 (Option 3) Root barriers are required around street trees in accordance with city standard detail. Top soil shall be installed in accordance with city standards - field verification required. Failure to install top soil and root barriers in accordance with the city standards may result in rejection of installation.

NOTE:
SYMBOLS NOT TO SCALE

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217-7312-004

DATE
JULY 2022



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PROJECT NAME

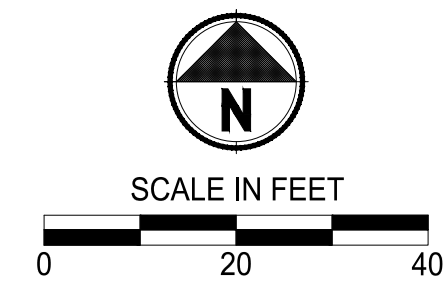
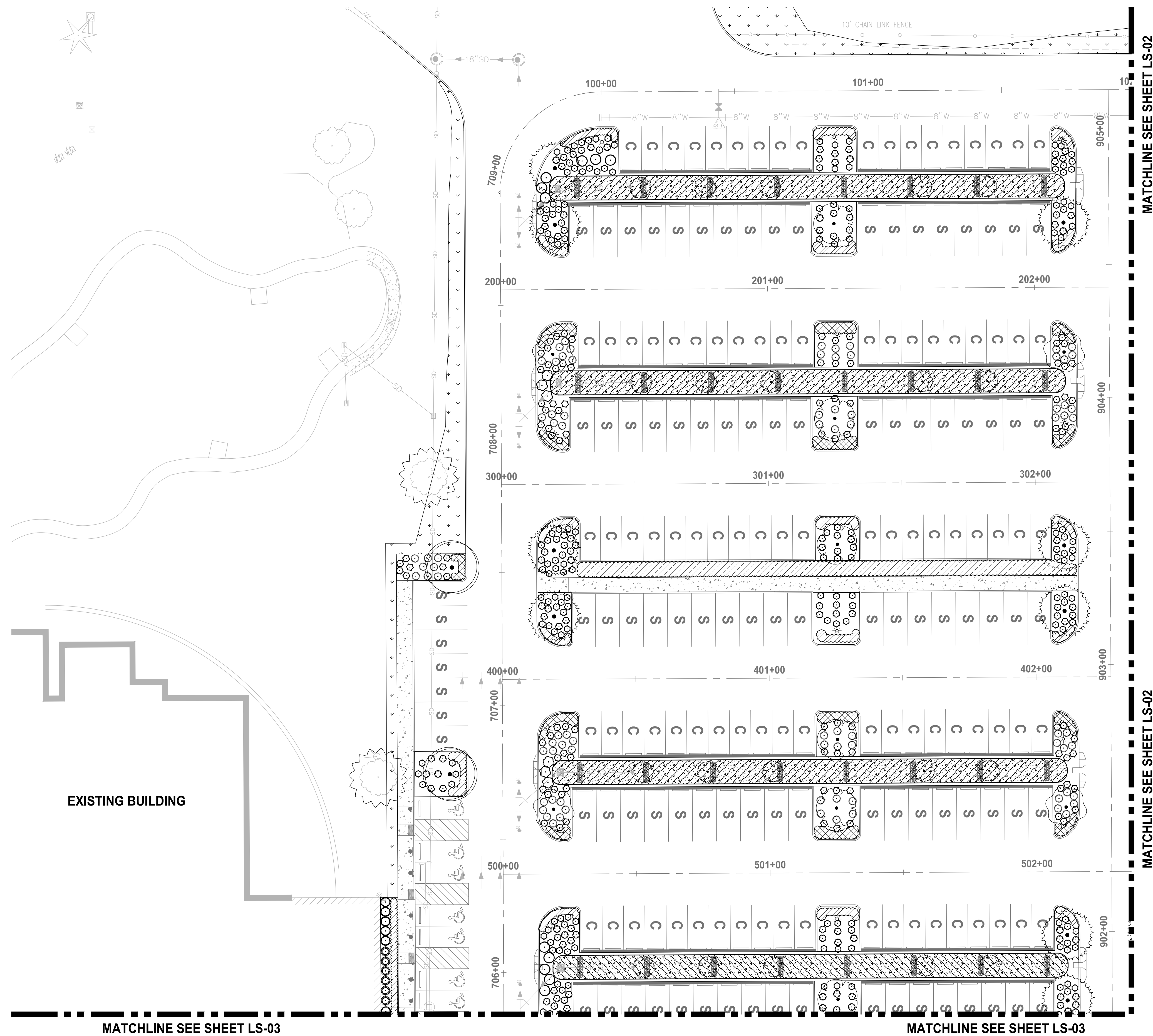
SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION

PUYALLUP, WA

LANDSCAPE PLAN COMPOSITE

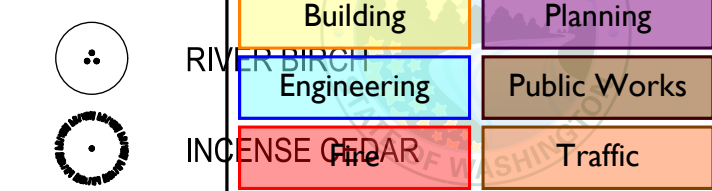
DRAWING NO.
52 OF 58


LS-00









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LANDSCAPE LEGEND



- | | |
|---|---------------------------|
|  | EUROPEAN HORNBEAM |
|  | KOUSA DOGWOOD |
|  | PACIFIC CRABAPPLE |
|  | HONEYWOOD SERVICEBERRY |
|  | PERSIAN PARROTIA |
|  | BOULEVARD AMERICAN LINDEN |
|  | WESTERN RED CEDAR |
|  | EMERALD GREEN ARBORVITAE |
|  | COMPACT CORAL BARBERRY |
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|  | CHERRY BOMB BARBERRY |
|  | ADAGIO GRASS |
|  | SNOWBERRY |
|  | GOLDFLAME SPIREA |
|  | OCEANSPRAY |


- | | |
|---|----------------------------------|
|  | STORMWATER PLANTING |
|  | MEDITERRANEAN HEATH |
|  | STELLA DE ORO DAYLILY |
|  | MOUNT VERNON ENGLISH LAUREL |
|  | RESTORATION PLANT MIX |
|  | TURF GRASS HYDROSEED RESTORATION |

NOTES:

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NOTE:
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**SOUTH HILL BUSINESS &
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PARKING EXPANSION**
PUYALLUP, WA

LANDSCAPE ENLARGEMENT PLAN

DRAWING NO.
53 OF 58

LS-01

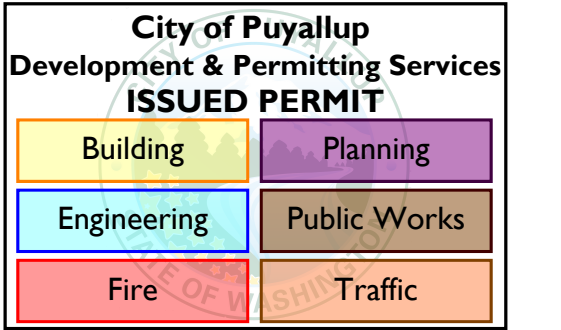
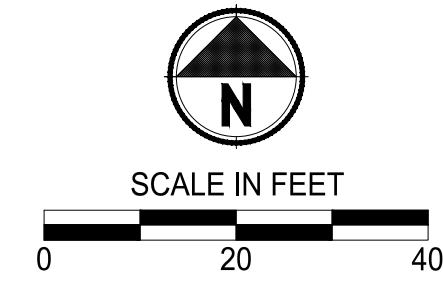
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MATCHLINE SEE SHEET LS-01

MATCHLINE SEE SHEET LS-01

MATCHLINE SEE SHEET LS-04

MATCHLINE SEE SHEET LS-04



CITY OF PUYALLUP
Planning Division
Approved Landscape Plan
(253) 864-4165
Staff: RNBrown
Date: 08/25/2022
THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY IS NOT RESPONSIBLE FOR ERRORS OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE PLANNING DIRECTOR, DESIGNER, OR PROJECT PLANNER.
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LANDSCAPE LEGEND:

- RIVER BIRCH
- INCENSE CEDAR
- EUROPEAN HORNBEAM
- KOUSA DOGWOOD
- PACIFIC CRABAPPLE
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SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION
PUYALLUP, WA

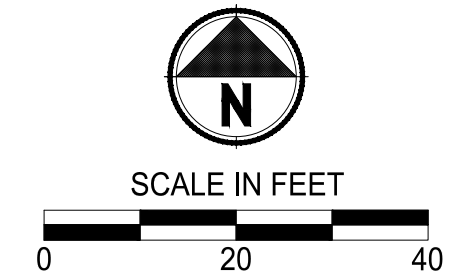
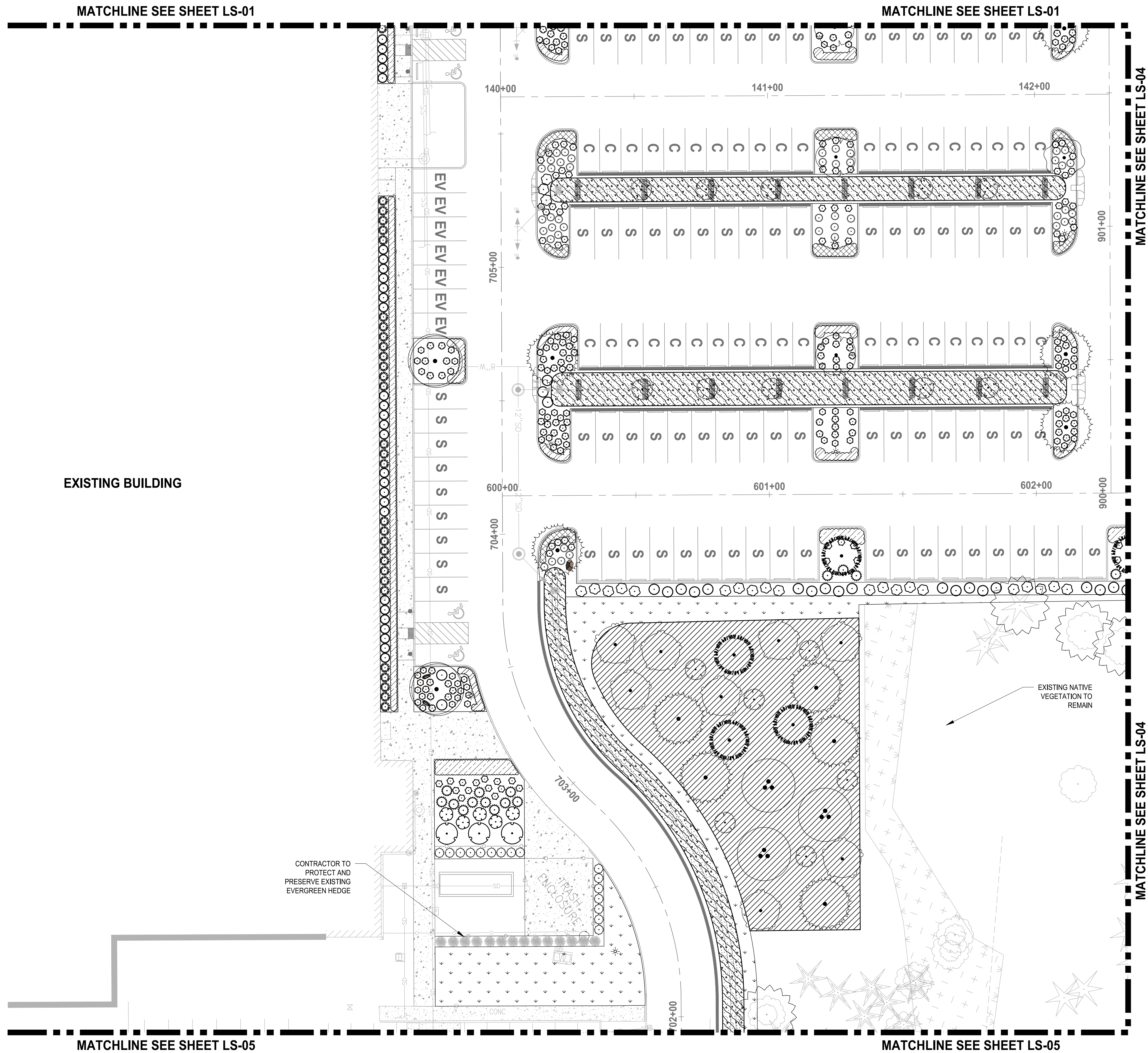
LANDSCAPE ENLARGEMENT PLAN

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54 OF 58
LS-02

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City of Puyallup
Development & Permitting Services
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Building	Planning
Engineering	Public Works
Fire	Traffic

LANDSCAPE LEGEND:

- RIVER BIRCH
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- TURF GRASS HYDROSEED RESTORATION

- NOTES:**
- SEE SHEET LS-06 FOR LANDSCAPE SCHEDULE AND LANDSCAPE NOTES AND PLANTING DETAILS.
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CITY OF PUYALLUP
Planning Division
Approved Landscape Plan
(253) 864-4165

Staff: RNBrown
Date: 08/25/2022

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PROJECT NAME

SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION

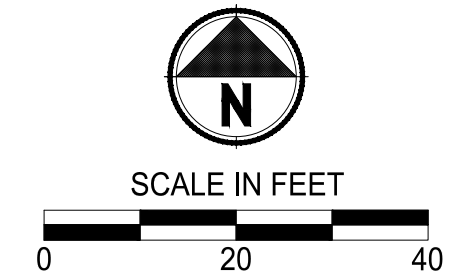
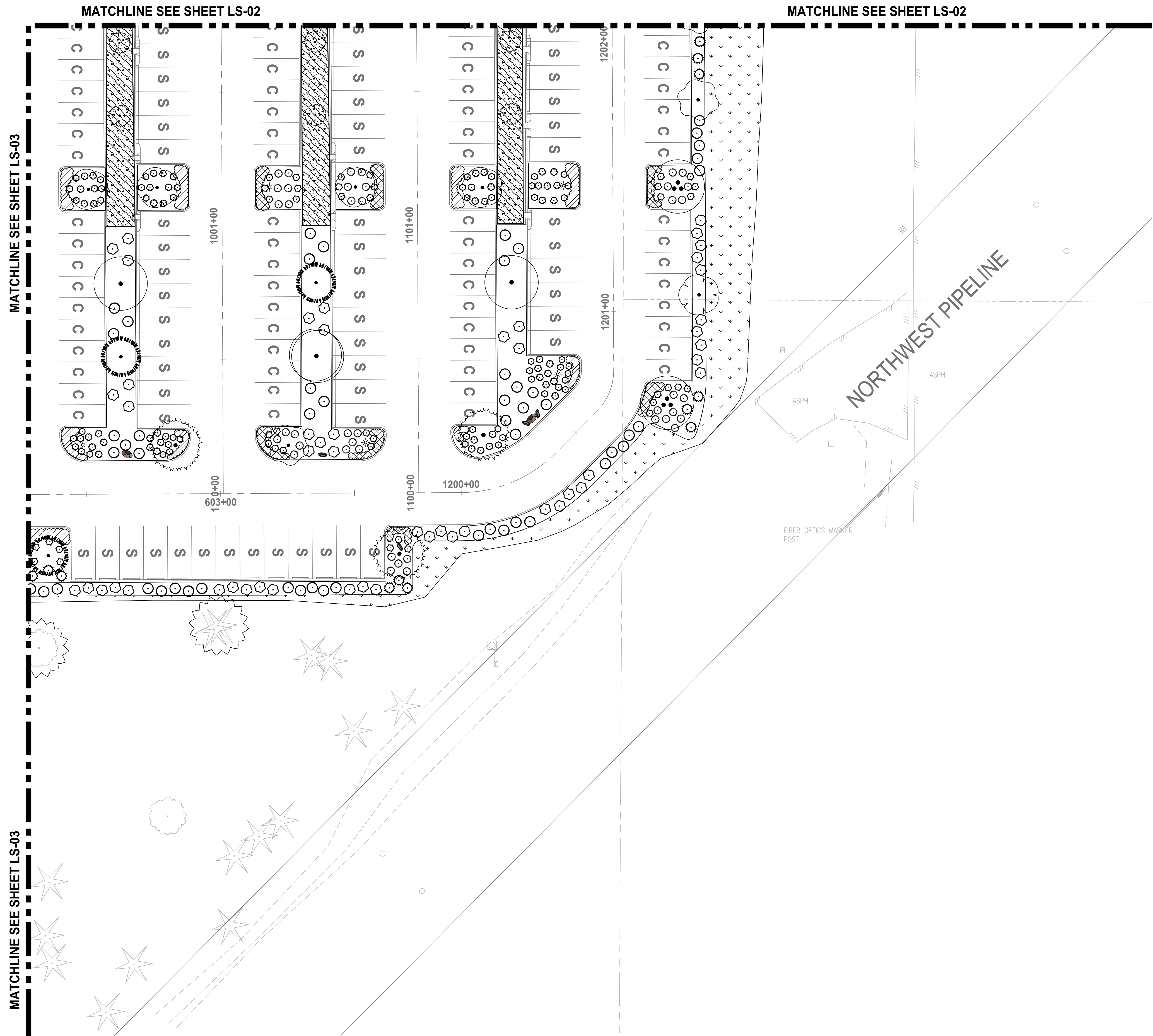
PUYALLUP, WA

LANDSCAPE ENLARGEMENT PLAN

DRAWING NO.
55 OF 58

LS-03

LAYOUT: LS-04 PATH: U:\P50\Projects\Clients\217-7312-Benaroya\217-7312-004-SH&T\ParkingExpansion\995\cs\CAAD\DWG PLOTTED BY: baileydjl DATE: Thursday, July 28, 2022 11:38:59 AM



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City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

- LANDSCAPE LEGEND:**
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 - MOUNT VERNON ENGLISH LAUREL
 - RESTORATION PLANT MIX
 - TURF GRASS HYDROSEED RESTORATION

- NOTES:**
- SEE SHEET LS-06 FOR LANDSCAPE SCHEDULE AND LANDSCAPE NOTES AND PLANTING DETAILS.
 - LOCATE TREES NO CLOSER THAN 10' MINIMUM FROM UTILITY PIPES AT BIORETENTION CELLS.
 - ALL RESTORATION AREAS SHOWN DIAGRAMMATICALLY ONLY. FIELD ADJUST AS NECESSARY TO MATCH ADJACENT EXISTING CONDITIONS. ALL AREAS DISTURBED BY CONSTRUCTION TO BE RESTORED.

CITY OF PUYALLUP
Planning Division
Approved Landscape Plan
(253) 864-4165

Staff: RNBrown
Date: 08/25/2022

THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY IS NOT RESPONSIBLE FOR ERRORS OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE PLANNING DIRECTOR, DESIGNEE, OR PROJECT PLANNER.

NOTE: If street trees are required, Call Planning Division for final inspection: (253) 864-4165 (Option 3) Root barriers are required around street trees in accordance with city standard detail. Top soil shall be installed in accordance with city standards - field verification required. Failure to install top soil and root barriers in accordance with the city standards may result in rejection of installation.

NOTE:
SYMBOLS NOT TO SCALE

100 % REVIEW SUBMITTAL

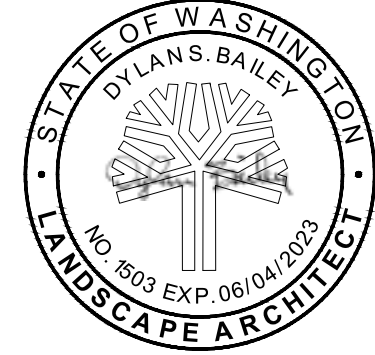
REVISIONS	DATE	BY	DESIGNED DSB	DRAWN DSB	CHECKED DMS	APPROVED DMS

**ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY**

FILE NAME
07-PSO731200C-LS

JOB No.
217-7312-004

DATE
JULY 2022



Parametrix
ENGINEERING · PLANNING · ENVIRONMENTAL SCIENCES

1019 39TH AVENUE SE, SUITE 100 | PUYALLUP, WA 98374
P 253.604.6600
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PROJECT NAME

SOUTH HILL BUSINESS & TECHNOLOGY CENTER PARKING EXPANSION

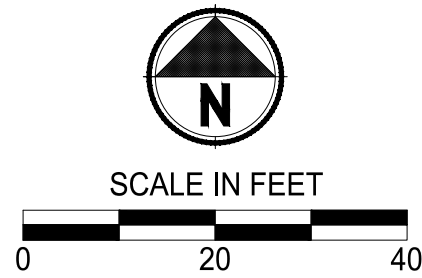
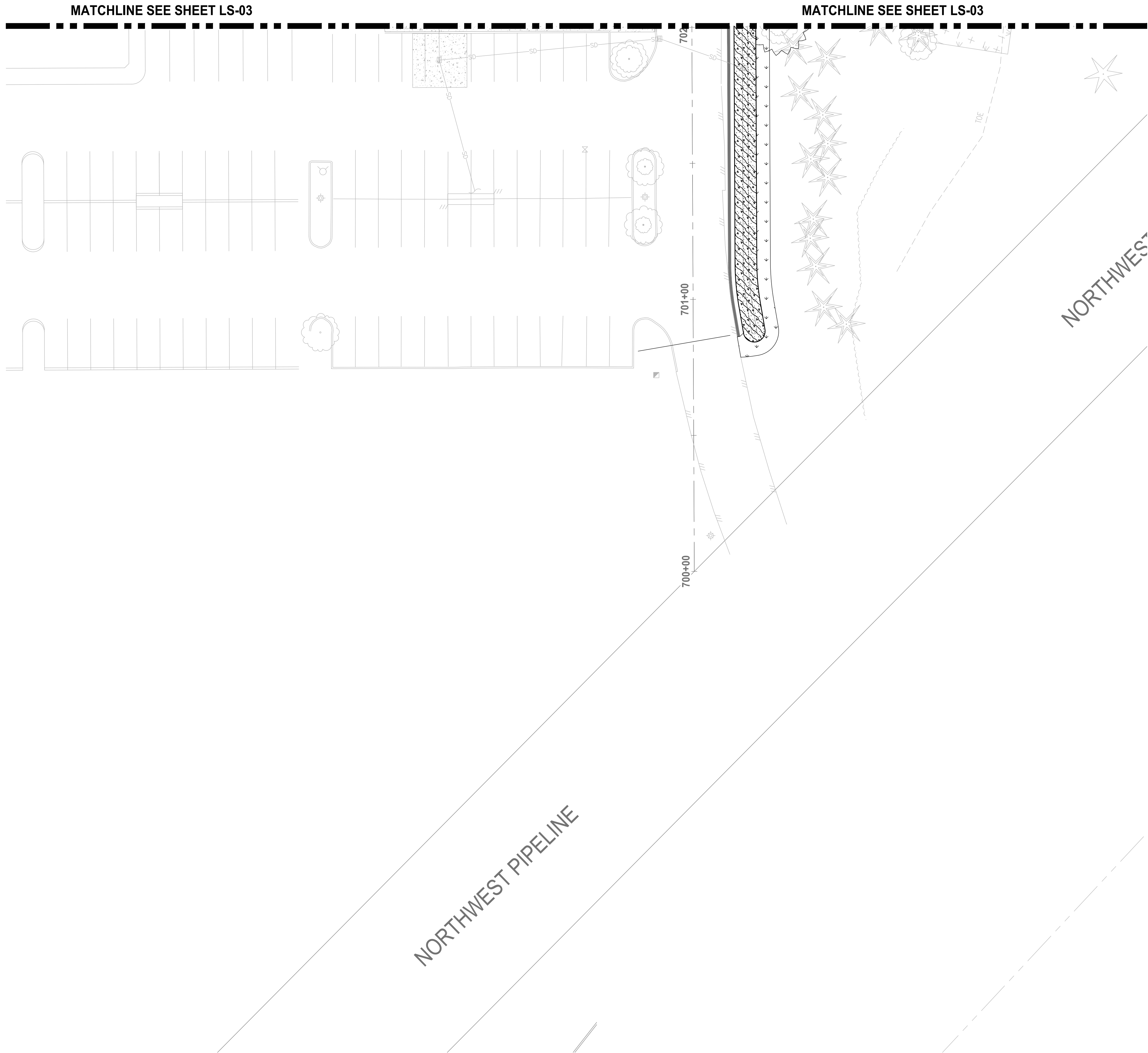
PUYALLUP, WA

LANDSCAPE ENLARGEMENT PLAN

DRAWING NO.
56 OF 58

LS-04

PATH: U:\PDS\Projects\Clients\312-Benaroya\217-7312-004-SHB2\TopParkingExpansion\995\cs\CAAD\DWG PLOTTED BY: baileyjl DATE: Thursday, July 28, 2022 11:39:12 AM LAYOUT: LS-05



City of Puyallup Development & Permitting Services ISSUED PERMIT			
Building	Planning		
Engineering	Public Works		
Fire	Traffic		

LANDSCAPE LEGEND:

- RIVER BIRCH
- INCENSE CEDAR
- EUROPEAN HORNBEAM
- KOUSA DOGWOOD
- PACIFIC CRABAPPLE
- HONEYWOOD SERVICEBERRY
- PERSIAN PARROTIA
- BOULEVARD AMERICAN LINDEN
- WESTERN RED CEDAR
- EMERALD GREEN ARBORVITAE
- COMPACT CORAL BARBERRY
- RED TWIG DOGWOOD
- BLUE OAT GRASS
- COMPACT OREGON GRAPE
- FIREPOWER NANDINA
- DAVID VIBURNUM
- CHERRY BOMB BARBERRY
- ADAGIO GRASS
- SNOWBERRY
- GOLDFLAME SPIREA
- OCEANSPRAY

- STORMWATER PLANTING
- MEDITERRANEAN HEATH
- STELLA DE ORO DAYLILY
- MOUNT VERNON ENGLISH LAUREL
- RESTORATION PLANT MIX
- TURF GRASS HYDROSEED RESTORATION

NOTES:

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PROJECT NAME

SOUTH HILL BUSINESS & TECHNOLOGY CENTER
PARKING EXPANSION
PUYALLUP, WA

LANDSCAPE
ENLARGEMENT PLAN

DRAWING NO.
57 OF 58

LS-05

LS-06