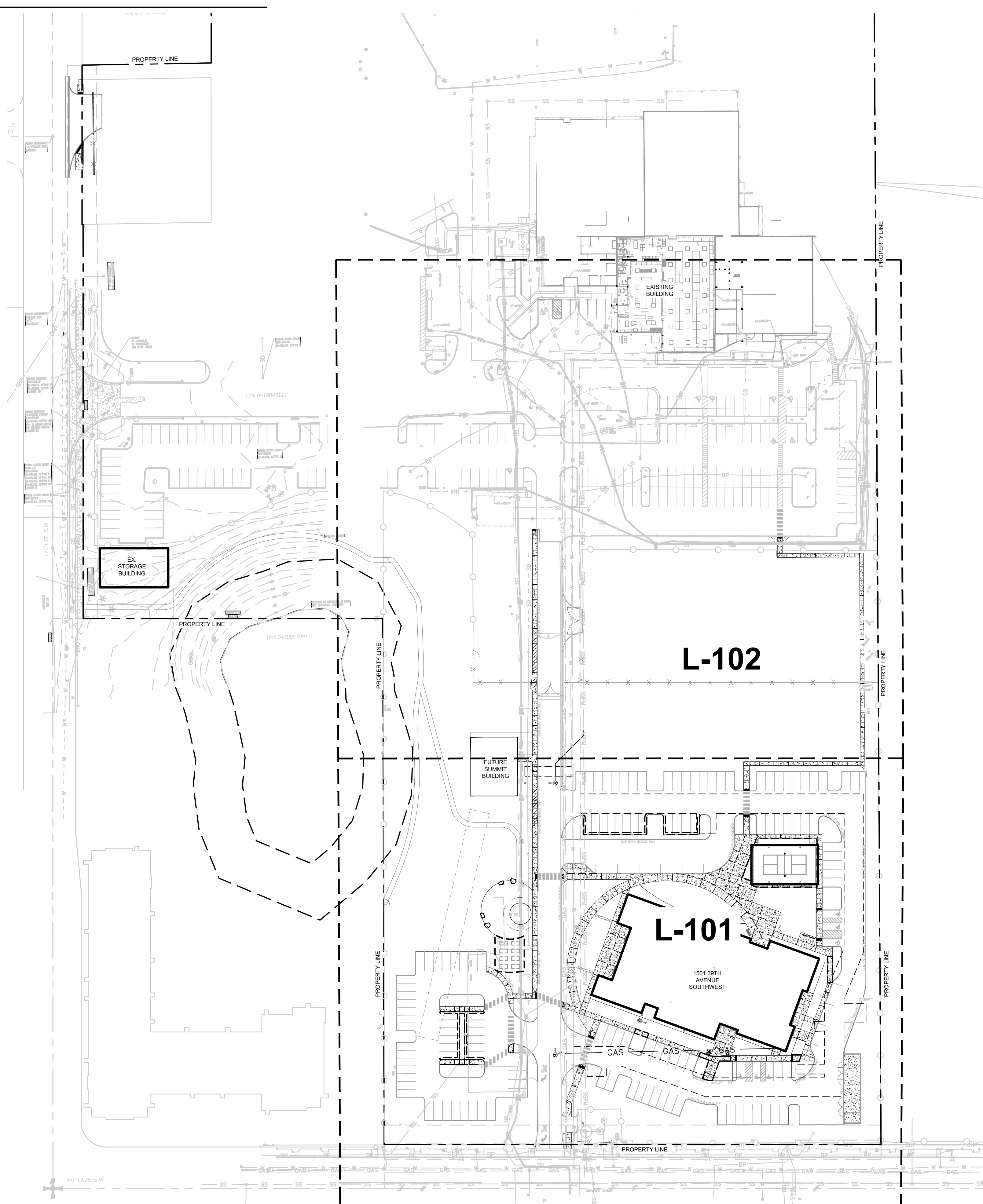
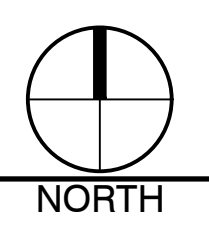
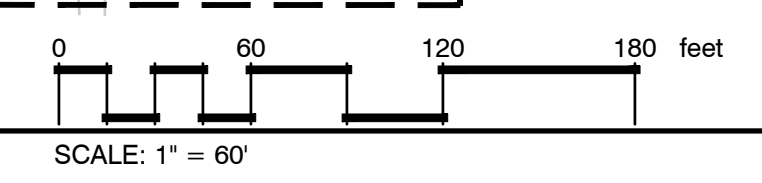


Date Plotted: Jun 03, 2020 - 11:16am Filename: L100\_LAYOUT.dwg By: ESTREEBY



- GENERAL NOTES:**
1. VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK. BE AWARE OF ANY UNDERGROUND UTILITIES. PROTECT ALL EXISTING SITE FEATURES TO RESIST POTENTIAL DAMAGE BY SITE CONSTRUCTION OPERATIONS. AVOID ANY WORK BEYOND SCOPE OF PROJECT AREA.
  2. COORDINATE ALL DISCIPLINES AND SITE CONSTRUCTION THAT WILL BE NEEDED TO COMPLETE THE PROJECT IN THE TIME FRAME GIVEN AND WITHIN BUDGET. ALL ACCESS TO SITE, USE OF UTILITIES, STORAGE, AND OTHER REQUIREMENTS SHALL BE COORDINATED PRIOR TO BEGINNING WORK.
  3. NOTIFY OWNER/LANDSCAPE ARCHITECT IMMEDIATELY UPON DISCOVERY OF UNFORESEEN SITE CONDITIONS OR PLAN DISCREPANCIES. NO CHANGE TO SPECIFIED WORK SHALL BE COMPLETED WITHOUT VERIFICATION OF EXISTING CONDITIONS AND WRITTEN APPROVAL OF MODIFICATION BY THE LANDSCAPE ARCHITECT.

1 L-100 LAYOUT PLAN - OVERALL



APPROVED FINAL  
LANDSCAPE PLAN  
BY Rebel Green  
PLANNING DIVISION  
DATE 6/8/2020

**NOTE**  
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FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE PLANNING DIRECTOR, DESIGNER OR PROJECT PLANNER.

**bcra**

STATE OF WASHINGTON  
REGISTERED  
LANDSCAPE ARCHITECT  
JON MCKAMARA  
LICENSE NO. 903  
EXPIRES ON 06/29/2020

**PROJECT**  
PUYALLUP SCHOOL DISTRICT  
**KESSLER CENTER**  
1501 39TH AVENUE SOUTHWEST  
PUYALLUP, WA 98375

**REVISIONS**

6-03-2020	CITY RESUBMITTAL

**DATE**  
2.26.2020

**BOOK NO.**  
18103

**CADD FILE**

**SHEET TITLE**  
LAYOUT PLAN - OVERALL

**bcra**

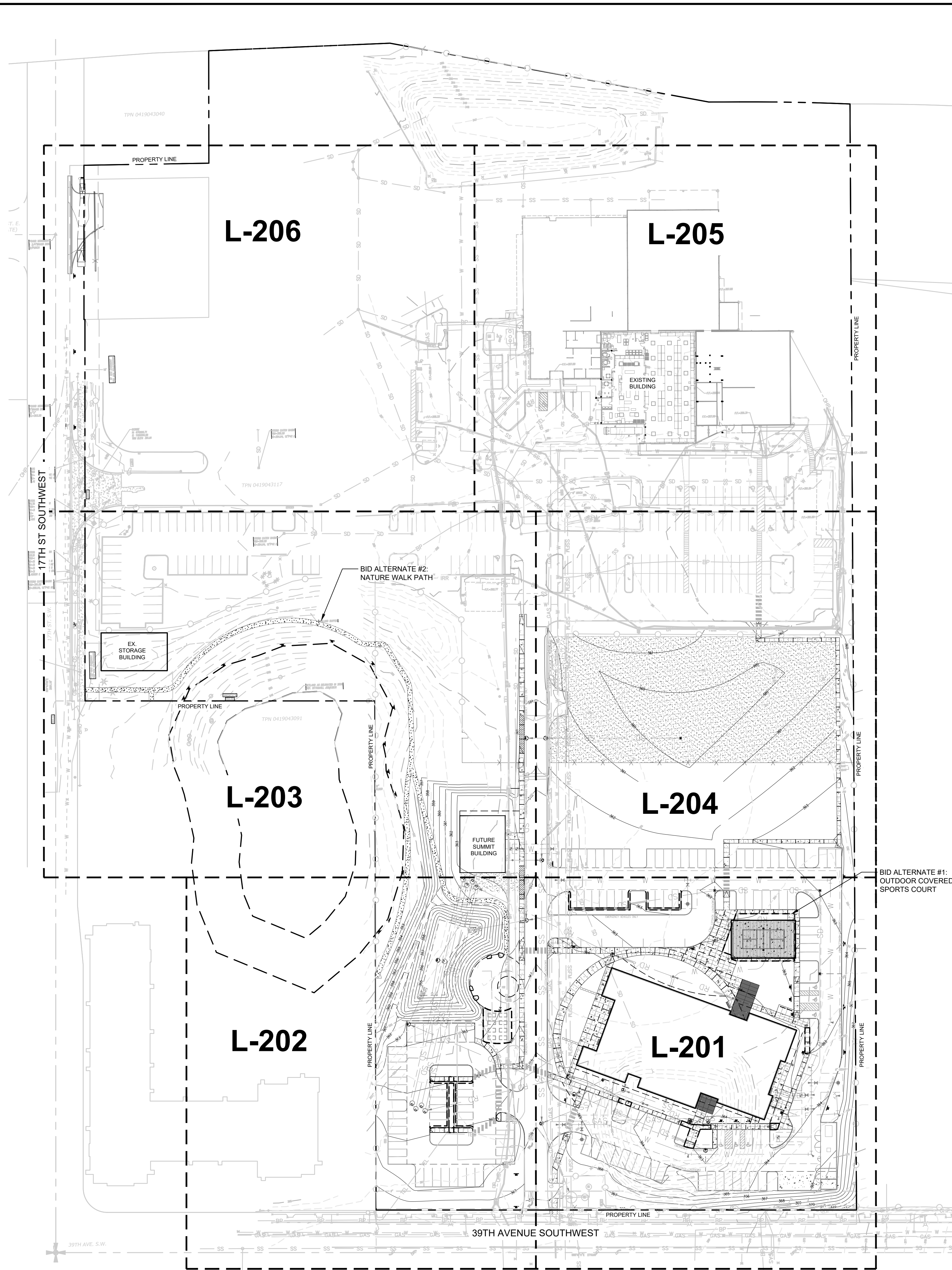
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**L-100**

PERMIT RESUBMITTAL



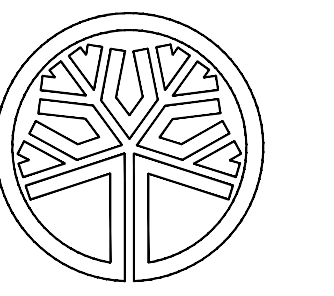
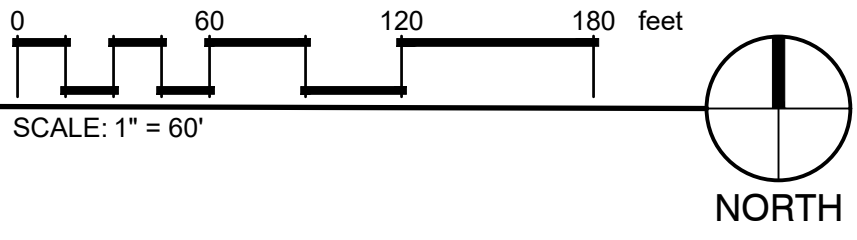




APPROVED FINAL  
LANDSCAPE PLAN  
BY *Robert A. ...*  
PLANNING DIVISION  
DATE 6/8/2020

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PLANNER.

1 MATERIAL PLAN - OVERALL KEY PLAN



STATE OF  
WASHINGTON  
REGISTERED  
LANDSCAPE ARCHITECT  
JOHN GNAMARA  
LICENSE NO. 903  
EXPIRES ON 06/29/2020

PROJECT  
PUYALLUP SCHOOL DISTRICT  
KESSLER CENTER  
1501 39TH AVENUE SOUTHWEST  
PUYALLUP, WA 98375

REVISIONS

6-03-2020	CITY RESUBMITTAL

DATE

2.26.2020

BCRA NO.

18103

QDD FILE

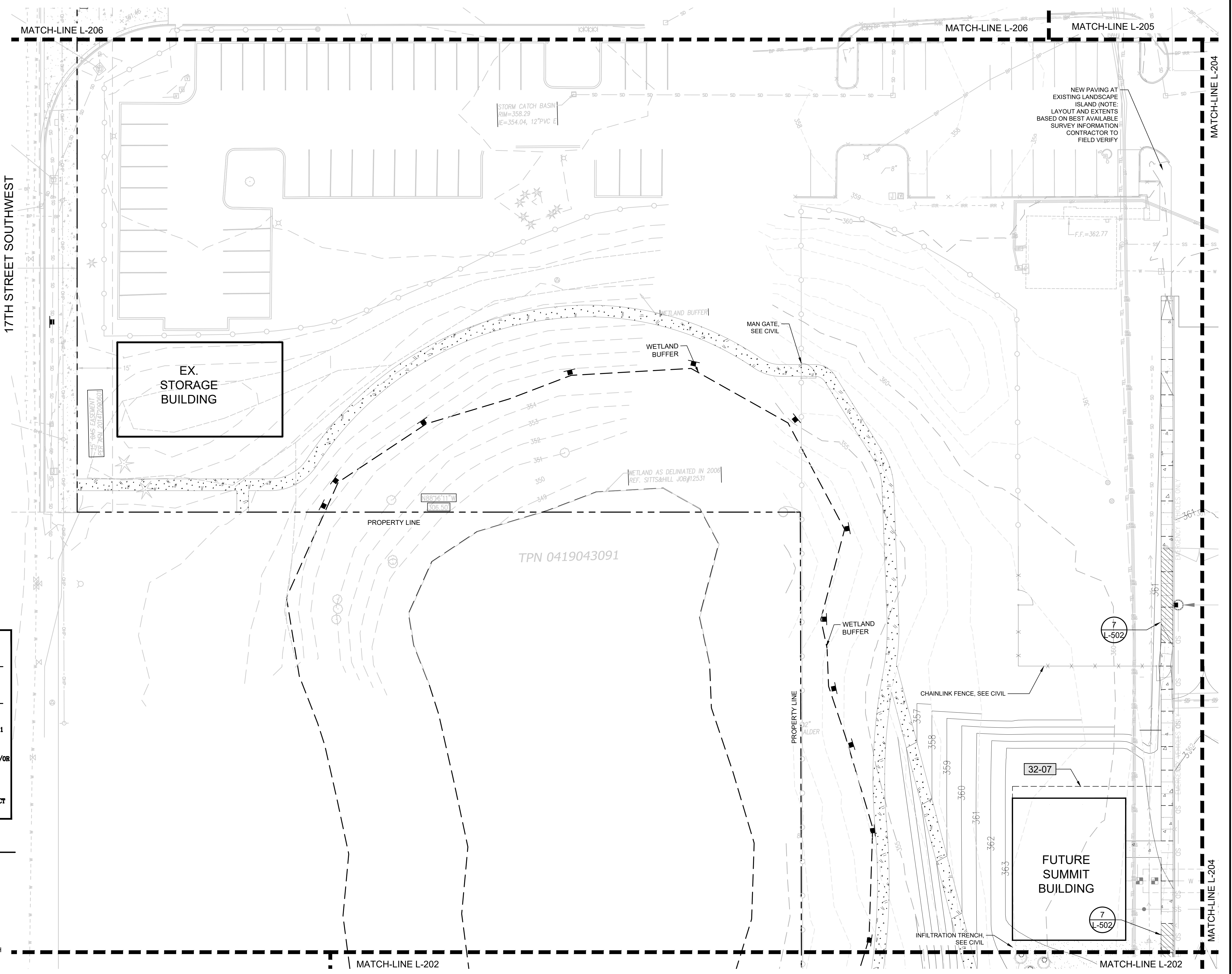
SHEET TITLE

MATERIAL

PLAN - OVERALL KEY PLAN







MATCH-LINE L-206

MATCH-LINE L-206

MATCH-LINE L-205

MATCH-LINE L-204

17TH STREET SOUTHWEST

EX. STORAGE BUILDING

PROPERTY LINE

TPN 0419043091

PROPERTY LINE

MATCH-LINE L-204

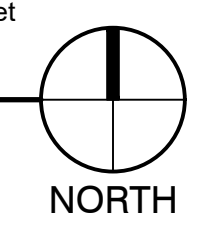
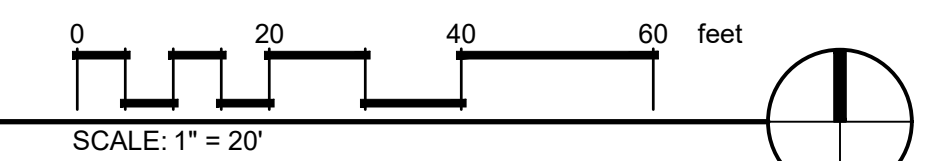
APPROVED FINAL LANDSCAPE PLAN  
 BY Rebel Area  
 PLANNING DIVISION  
 DATE 6/8/2020  
 NOTE:  
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MATERIALS SCHEDULE L-203

SYMBOL	DESCRIPTION
32-07	LANDSCAPE EDGING
32	EXTERIOR IMPROVEMENTS
4	CONCRETE PAVING
BID ALT #2	NATURE WALK PATH; WOOD CHIP, 4" DEPTH

NOTES: REFER TO SHEET 201 OVERALL MATERIALS SCHEDULE, FOR ALL DETAIL REFERENCES.

1 MATERIAL PLAN - FUTURE SUMMIT BUILDING & NATURE WALK PATH



PROJECT:  
 PUYALLUP SCHOOL DISTRICT  
**KESSLER CENTER**  
 1501 39TH AVENUE SOUTHWEST  
 PUYALLUP, WA 98375

REVISIONS

NO.	DATE	DESCRIPTION
1	6-03-2020	CITY RESUBMITTAL

DATE: 2.26.2020  
 BCRA NO.: 18103  
 QDD FILE

SHEET TITLE  
 MATERIAL PLAN - FUTURE SUMMIT BUILDING & NATURE WALK PATH

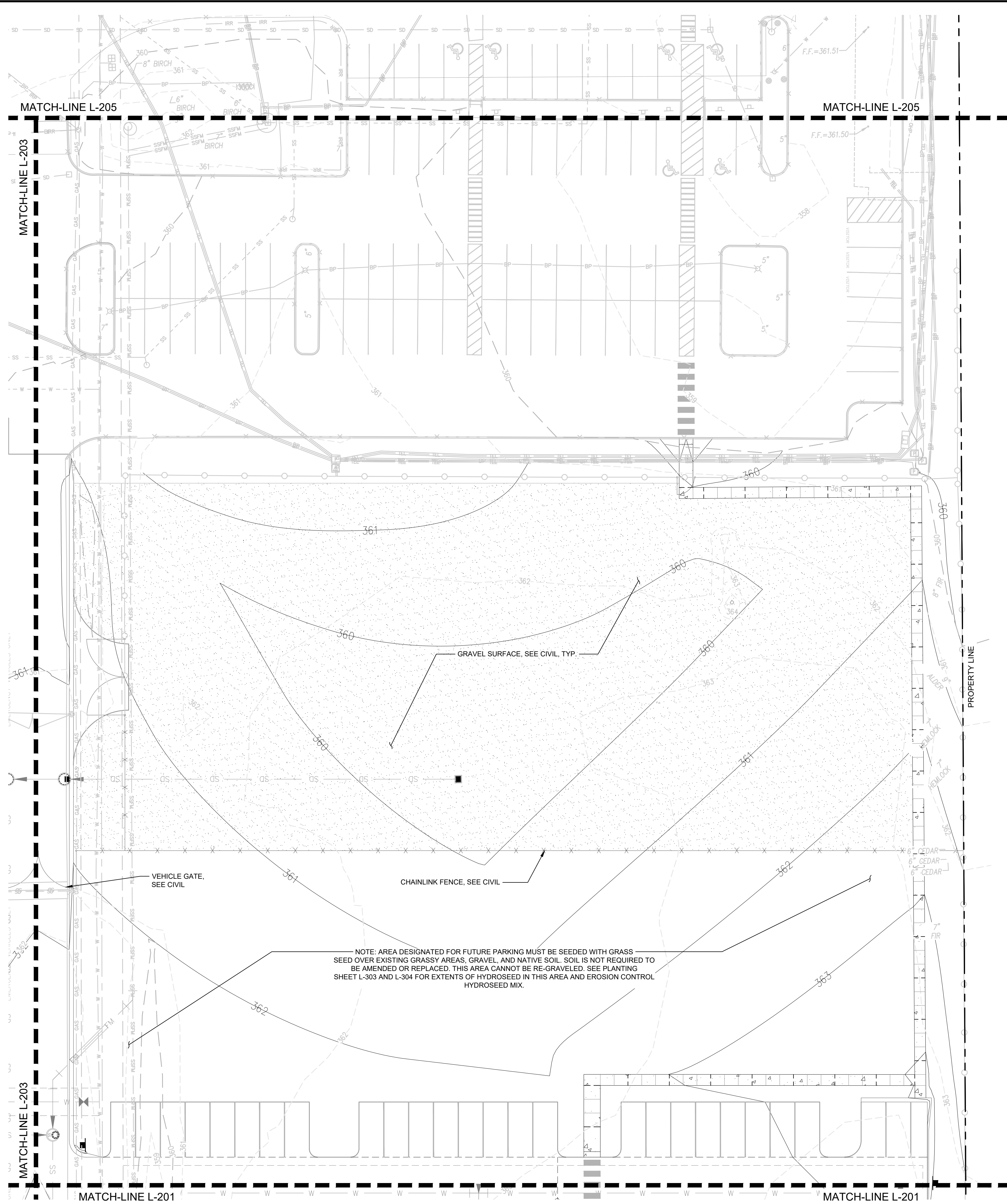


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L-203

PERMIT RESUBMITTAL

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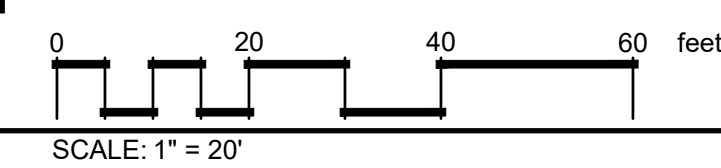
**MATERIALS SCHEDULE L-206**

SYMBOL	32 EXTERIOR IMPROVEMENTS DESCRIPTION
	CONCRETE PAVING

NOTES: REFER TO SHEET L-207, OVERALL MATERIALS SCHEDULE, FOR ALL DETAIL REFERENCES.

NOTE: ALL DISTURBED AREAS TO BE HYDROSEED TO LIMITS OF DISTURBANCE, TYP.

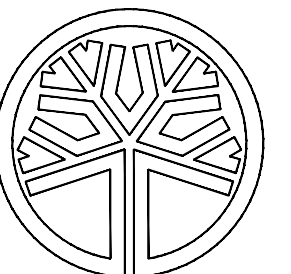
NOTE: AREA DESIGNATED FOR FUTURE PARKING MUST BE SEEDED WITH GRASS SEED OVER EXISTING GRASSY AREAS, GRAVEL, AND NATIVE SOIL. SOIL IS NOT REQUIRED TO BE AMENDED OR REPLACED. THIS AREA CANNOT BE RE-GRAVELED. SEE PLANTING SHEET L-303 AND L-304 FOR EXTENTS OF HYDROSEED IN THIS AREA AND EROSION CONTROL HYDROSEED MIX.



APPROVED FINAL  
LANDSCAPE PLAN  
BY: *Rebel Green*  
PLANNING DIVISION  
DATE: 6/8/2020  
NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.  
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2108 PACIFIC AVENUE, SUITE 300, TACOMA, WA 98402



STATE OF WASHINGTON  
REGISTERED  
LANDSCAPE ARCHITECT  
JONATHAN MAMARA  
LICENSE NO. 903  
EXPIRES ON 06/29/2020

PROJECT:  
PUYALLUP SCHOOL DISTRICT  
**KESSLER CENTER**  
1501 39TH AVENUE SOUTHWEST  
PUYALLUP, WA 98375

REVISIONS

NO.	DATE	DESCRIPTION
1	6-03-2020	CITY RESUBMITTAL

MATERIAL PLAN - NORTH  
PARKING & BUS TRAINING



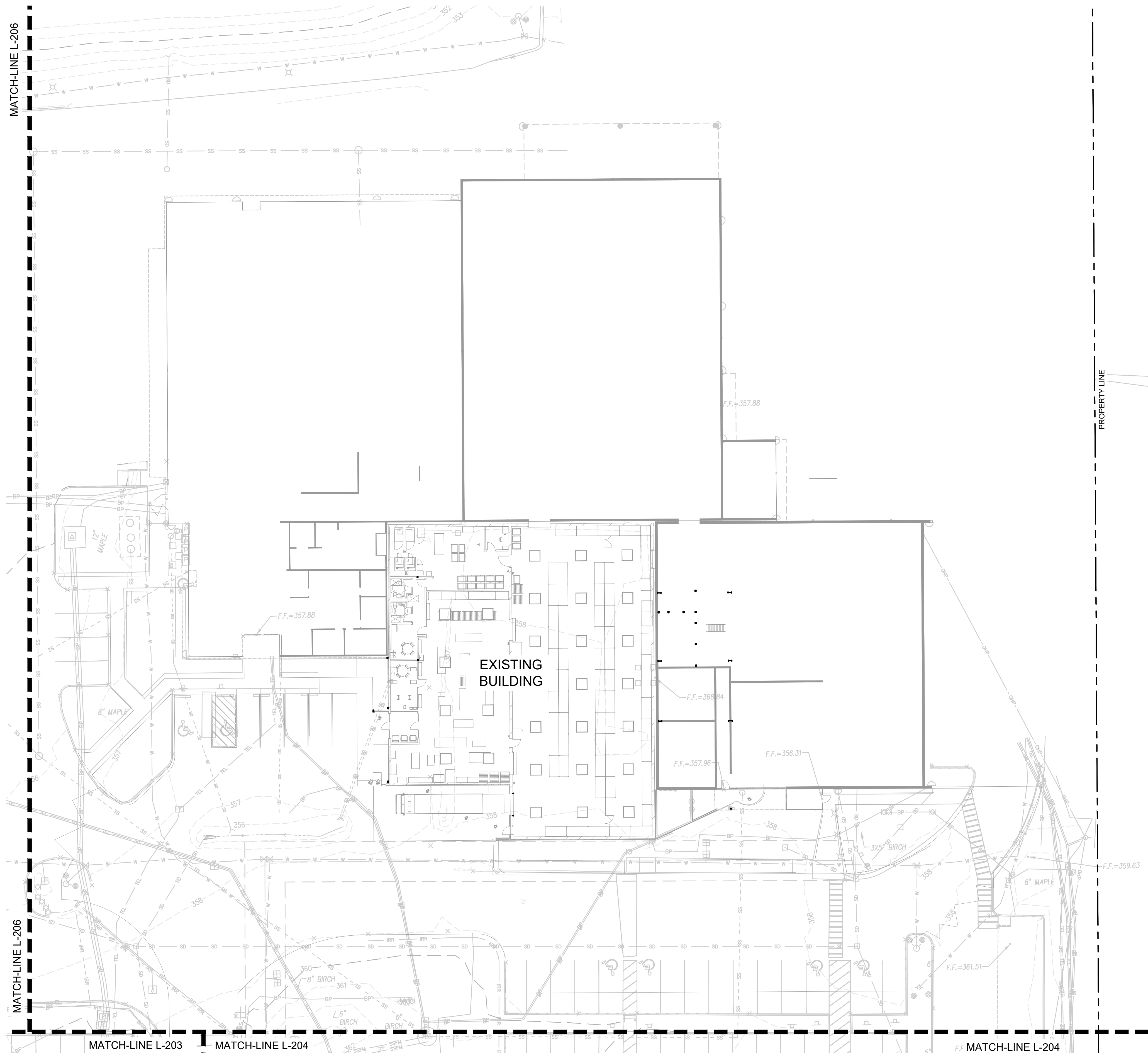
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**L-204**

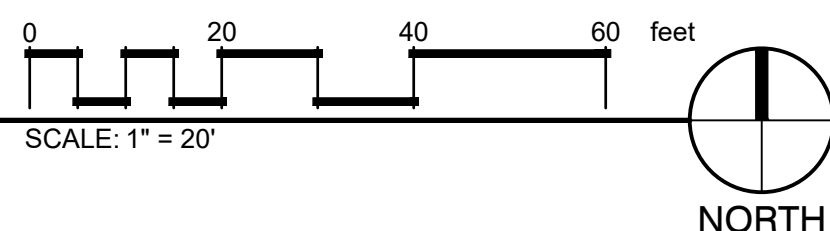
PERMIT RESUBMITTAL



Date Plotted: Jun 03, 2020 - 11:17am Filename: L200\_MATERIALS.dwg By: ESTREEBY



1 MATERIAL PLAN - NORTHEAST SITE (FOR REFERENCE ONLY - NO LANDSCAPE SCOPE WITHIN THIS REGION)



APPROVED FINAL LANDSCAPE PLAN  
BY: *Rebel Brown*  
PLANNING DIVISION  
DATE: 6/8/2020  
NOTE:  
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**bcra**  
T: 253.627.4397 F: 253.627.4395 WWW.BCRA.COM  
2108 PACIFIC AVENUE, SUITE 300, TACOMA, WA 98402

STATE OF WASHINGTON  
REGISTERED  
LANDSCAPE ARCHITECT  
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PROJECT:  
PUYALLUP SCHOOL DISTRICT  
**KESSLER CENTER**  
1501 39TH AVENUE SOUTHWEST  
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REVISIONS

6-03-2020	CITY RESUBMITTAL

DATE  
2.26.2020

BCRA NO.  
18103

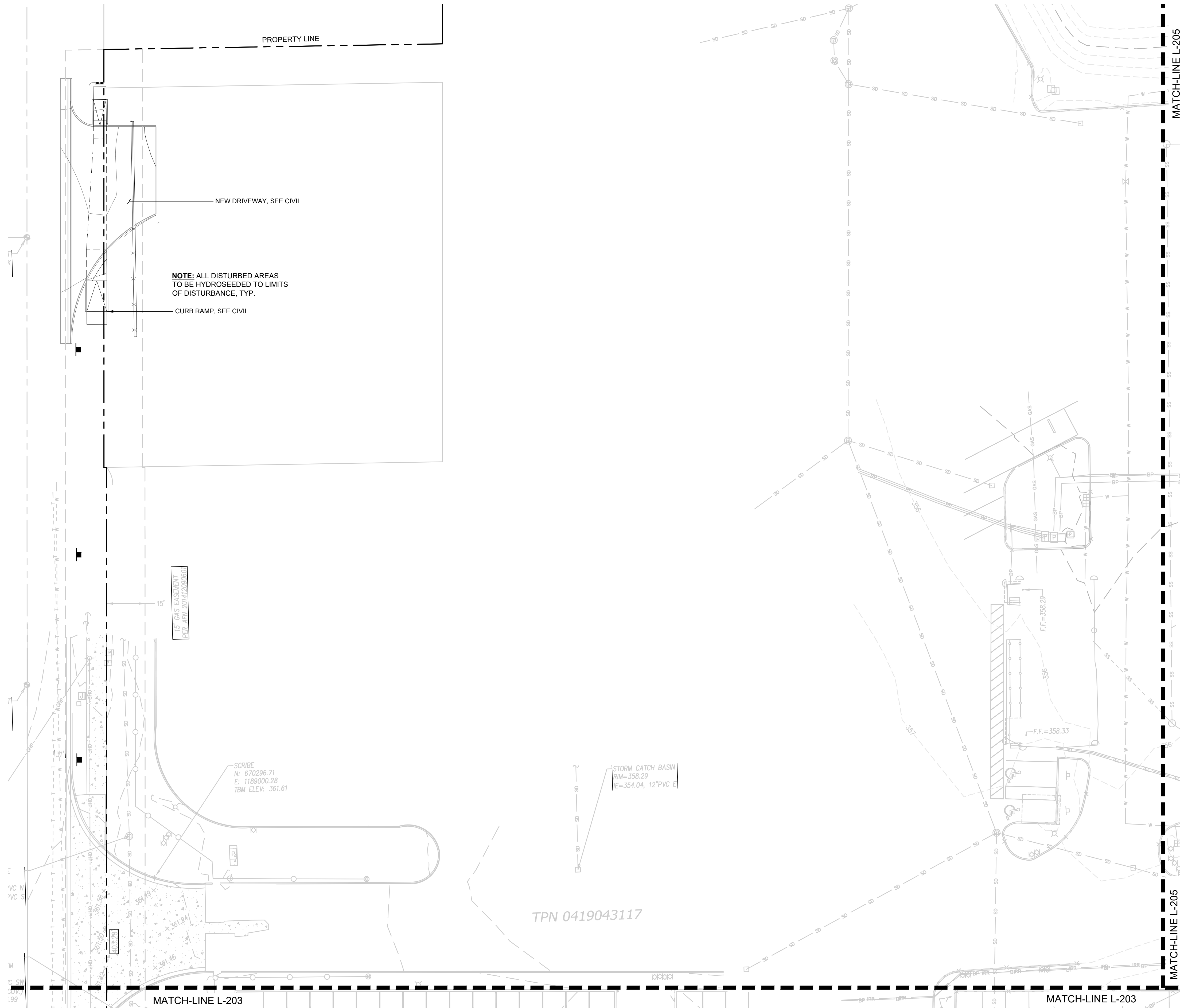
QDD FILE

SHEET TITLE  
MATERIAL PLAN - NORTHEAST SITE (FOR REFERENCE ONLY)

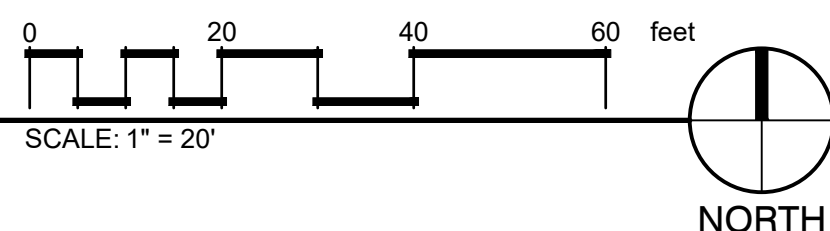
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1 MATERIAL PLAN - NORTHWEST SITE



MATERIALS SCHEDULE L-206

SYMBOL	32 EXTERIOR IMPROVEMENTS DESCRIPTION
	CONCRETE PAVING

APPROVED FINAL LANDSCAPE PLAN  
 BY Rebecka Brown  
 PLANNING DIVISION

DATE: 6/8/2020

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**bcra**

STATE OF WASHINGTON  
 REGISTERED LANDSCAPE ARCHITECT  
 JONATHAN MAMARA  
 LICENSE NO. 903  
 EXPIRES ON 06/29/2020

PROJECT  
 PUYALLUP SCHOOL DISTRICT  
**KESSLER CENTER**  
 1501 39TH AVENUE SOUTHWEST  
 PUYALLUP, WA 98375

REVISIONS

6-03-2020	CITY RESUBMITTAL

DATE  
 2.26.2020

BCRA NO.  
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QDD FILE

SHEET TITLE  
 MATERIAL PLAN - NORTHWEST SITE

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**L-206**


PERMIT RESUBMITTAL


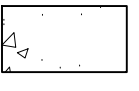
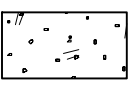

**OVERALL MATERIAL SCHEDULE**

SYMBOL	12 FURNISHINGS DESCRIPTION	QTY	DETAIL
12-01	BENCH; MAGLIN MBE1050-00077; IPE SEAT AND BACK; 70" L X 16.5" D X 30" H.	5	SEE SPECS
12-03	BID ALTERNATE #1: OUTDOOR COVERED SPORTS COURT, 36" PICKLEBALL POST WITH GROUND SLEEVE AND PLUGS	2	SEE SPECS
12-04	FLAG POLE	1	SEE SPECS

SYMBOL	32 EXTERIOR IMPROVEMENTS DESCRIPTION	QTY	DETAIL
32-03	CONCRETE PAVER; 2' X 2'	12	2/L-502
32-07	LANDSCAPE EDGING	696 LF	5/L-502 & 6/L-502
32-08	CU STRUCTURAL SOILS - AREA INSIDE DASHED LINES TO RECEIVE (PER PMC 28.58.005)		
32-10	BIKE RACK; U-LINE 5-LOOP	2	SEE SPECS

SYMBOL	ROCK DESCRIPTION	QTY	DETAIL
K-101	BOULDERS; GRANITE; 6-MAN (54"-60" AVG. WIDTH)	4	7/L-500

SYMBOL	03 CONCRETE DESCRIPTION	QTY	DETAIL
	BID ALTERNATE #1: OUTDOOR COVERED SPORTS COURT, ACRYLIC SPORT COURT SURFACING; 'PLEXIPAVE' OR APPROVED EQUAL; APPLY OVER CONCRETE PAVING PER MANUFACTURER'S SPECIFICATIONS	2,506 SF	SEE SPECS

SYMBOL	32 EXTERIOR IMPROVEMENTS DESCRIPTION	QTY	DETAIL
	CONCRETE PAVING; INTEGRAL COLOR	1,087 SF	1/L-502
	CONCRETE PAVING	20,640 SF	1/L-502
	BID ALT #2; NATURE WALK PATH; WOOD CHIP; 4" DEPTH	4,870 SF	8/L-500
	CONCRETE PAVING; HEAVY DUTY	382 SF	7/L-502

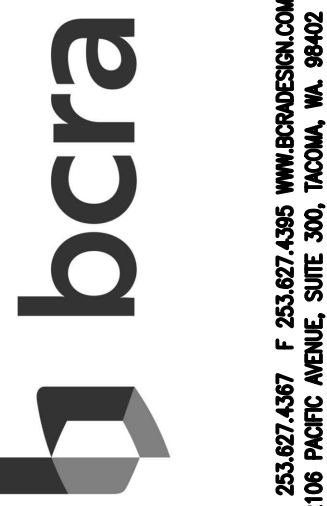
**GENERAL NOTES:**

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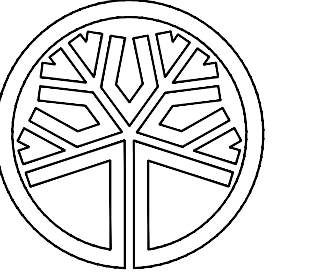
Date Plotted: Jun 03, 2020 - 11:17am Filename: L200 MATERIALS.dwg By: ESTREEBY

APPROVED FINAL  
LANDSCAPE PLAN  
BY Richard Brown  
PLANNING DIVISION  
DATE 6/8/2020

NOTE:  
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2108 PACIFIC AVENUE, SUITE 300, TACOMA, WA 98402



STATE OF WASHINGTON  
REGISTERED LANDSCAPE ARCHITECT  
JONATHAN NAMARA  
LICENSE NO. 903  
EXPIRES ON 06/29/2020

PROJECT  
PUYALLUP SCHOOL DISTRICT  
**KESSLER CENTER**  
1501 39TH AVENUE SOUTHWEST  
PUYALLUP, WA 98375

REVISIONS

6-03-2020	CITY RESUBMITTAL

DATE  
2.26.2020  
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SHEET TITLE  
OVERALL MATERIAL SCHEDULE & NOTES



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SHEET

**L-207**

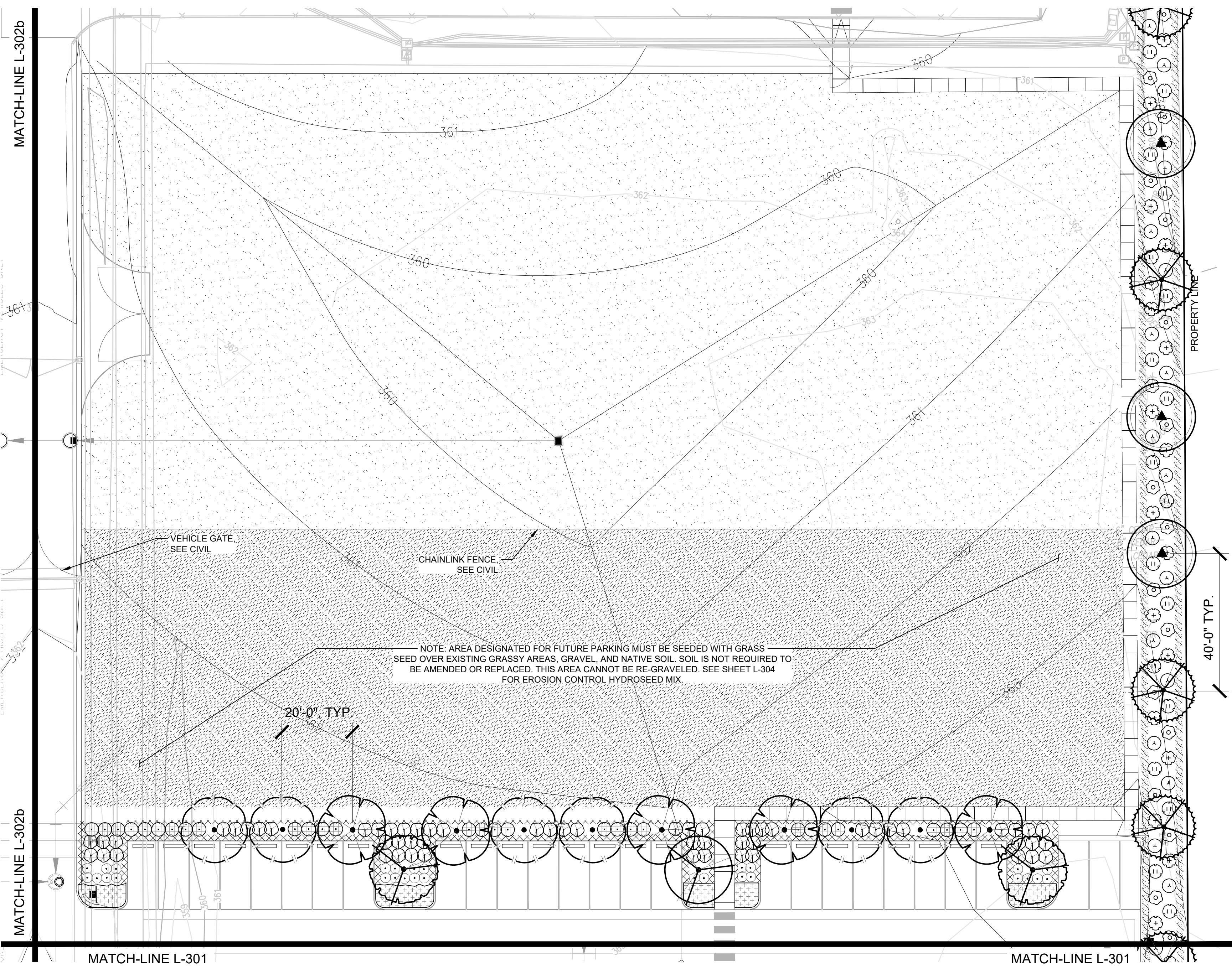
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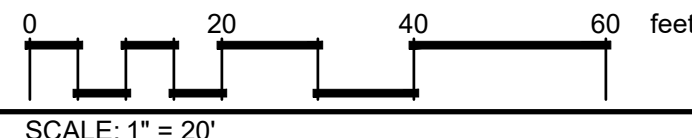


Date Plotted: Jun 03, 2020 - 11:17am Filename: L-300 PLANNING.dwg By: ESTREEBY



1 LANDSCAPE PLAN - NORTH PARKING & BUS TRAINING

NOTE: SEE SHEET L-304 FOR PLANT SCHEDULE.



APPROVED FINAL  
LANDSCAPE PLAN  
BY Rebel Brown  
PLANNING DIVISION

DATE 6/8/2020

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2108 PACIFIC AVENUE, SUITE 300, TACOMA, WA 98402

STATE OF WASHINGTON  
REGISTERED  
LANDSCAPE ARCHITECT

JONATHAN MAMARA

LICENSE NO. 903  
EXPIRES ON 06/29/2020

PROJECT  
PUYALLUP SCHOOL DISTRICT  
**KESSLER CENTER**  
1801 39TH AVENUE SOUTHWEST  
PUYALLUP, WA 98375

REVISIONS

6-03-2020	CITY RESUBMITTAL

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SHEET TITLE  
LANDSCAPE PLAN - NORTH  
PARKING & BUS TRAINING

**bcra**

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**L-303**

PERMIT RESUBMITTAL

# PLANT SCHEDULE

TREES	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	QTY	DETAIL	SHRUBS	BOTANICAL / COMMON NAME	SIZE	QTY	DETAIL
	ACER CIRCINATUM 'PACIFIC FIRE' / VINE MAPLE	B & B	MULTI-STEM	5'-6' HT.	9	5/L-500		COTONEASTER GLAUCOPHYLLUS / BRIGHT BEAD COTONEASTER	2 GAL	49	4/L-500
	ACER MACROPHYLLUM / BIG LEAF MAPLE	B & B	1" CAL		11	5/L-500		GAULTHERIA SHALLON 'SNOQUALMIE PASS' / DWARF SALAL	2 GAL	133	4/L-500
	CALOEDRUS DECURRENS / INCENSE CEDAR	B & B		6' MIN. HT	8	6/L-500		HOLODISCUS DISCOLOR / OCEAN-SPRAY	3 GAL	57	4/L-500
	CORNUS NUTTALLII 'EDDIE'S WHITE WONDER' / EDDIE'S WHITE WONDER DOGWOOD	B & B	1" CAL. MIN.		3	5/L-500		MAHONIA NERVOSA / OREGON GRAPE	3 GAL	150	4/L-500
	EXISTING TREE TO REMAIN	EXISTING			13	5/L-500		NANDINA DOMESTICA 'GULF STREAM' TM / HEAVENLY BAMBOO	2 GAL	705	4/L-500
	HALESIA CAROLINA / SNOWDROP TREE	B & B	1" CAL. MIN.		12	5/L-500		OEMLERIA CERASIFORMIS / INDIAN PLUM	3 GAL	57	4/L-500
	LIRIODENDRON TULIPIFERA 'FASTIGIATA' / TULIP TREE	B & B	1" CAL. MIN.		9	5/L-500		PHILADELPHUS X VIRGINALIS 'DWARF SNOWFLAKE' / DWARF SNOWFLAKE MOCKORANGE	5 GAL	3	4/L-500
	NYSSA SYLVATICA / SOUR GUM STRONG, CENTRAL SINGLE LEADER	B & B	1" CAL. MIN.		8	5/L-500		PHYSOCARPUS CAPITATUS / PACIFIC NINEBARK SMALL/MEDIUM SHRUB - NATIVE	3 GAL	177	4/L-500
	PICEA PUNGENS 'GLAUCA' / COLORADO BLUE SPRUCE	B & B		6' MIN. HT	10	6/L-500		POLYSTICHUM MUNITUM / WESTERN SWORD FERN	2 GAL	12	4/L-500
	PSEUDOTSUGA MENZIESII / DOUGLAS FIR	B & B		6' MIN. HT	11	6/L-500		RHAPHIOLEPIS INDICA NANA / DWARF INDIAN HAWTHORN	2 GAL	54	4/L-500
	STYRAX JAPONICUS / JAPANESE SNOWBELL	B & B	1" CAL. MIN.		6	5/L-500		RIBES SANGUINEUM / RED FLOWERING CURRANT	5 GAL	2	4/L-500
	BERBERIS THUNBERGII 'BAGATELLE' / BAGATELLE RED BARBERRY	2 GAL			107	4/L-500		ROSA NUTKANA / NOOTKA ROSE	3 GAL	135	4/L-500
	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' / FEATHER REED GRASS	2 GAL			173	4/L-500		SALIX PURPUREA 'NANA' / DWARF ARCTIC WILLOW	3 GAL	1	4/L-500
	CISTUS X HYBRIDUS / WHITE ROCKROSE	2 GAL			408	4/L-500		SARCOCOCCA HOOKERIANA HUMILIS / SWEET BOX	2 GAL	42	4/L-500
	CORNUS SERICEA 'KELSEY' / KELSEY DOGWOOD	3 GAL			146	4/L-500		SYMPHORICARPOS ALBUS / COMMON WHITE SNOWBERRY	3 GAL	74	4/L-500
								TAXUS X MEDIA 'HICKSII' / HICKS YEW	5 GAL	67	4/L-500
								VACCINIUM OVATUM / EVERGREEN HUCKLEBERRY	3 GAL	2	4/L-500
								VIBURNUM DAVIDII / DAVID VIBURNUM	3 GAL	76	4/L-500
								VIBURNUM TINUS 'SPRING BOUQUET' / SPRING BOUQUET LAURESTINUS	3 GAL	177	4/L-500

APPROVED FINAL LANDSCAPE PLAN  
 BY: *Rebecca*  
 PLANNING DIVISION  
 DATE: 6/8/2020  
 NOTE:  
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 FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE PLANNING DIRECTOR, DESIGNER OR PROJECT PLANNER.

## PLANTING NOTES:

- LANDSCAPE CONTRACTOR SHALL LOCATE ALL TREES, SHRUBS AND PLANTING BEDS ACCORDING TO LOCATIONS SHOWN ON DRAWINGS. ALL PLANTING LOCATIONS SHALL BE SUBJECT TO REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO THE START OF PLANTING OPERATIONS. LANDSCAPE CONTRACTOR SHALL MAKE MODIFICATIONS IN LOCATIONS AS DIRECTED BY LANDSCAPE ARCHITECT.
- THE PLANT SCHEDULE IS FOR CONTRACTOR'S CONVENIENCE ONLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND REPORTING IN WRITING TO THE LANDSCAPE ARCHITECT ANY CONFLICTS RELATIVE TO IMPLEMENTATION OF THE LANDSCAPE CONSTRUCTION DOCUMENTS. BCRA SHALL NOT ASSUME ANY ERRORS OR OMISSIONS IN THE PLANT SCHEDULE LISTED HEREIN. THE PLANT SYMBOLS SHOWN ON THE LANDSCAPE PLAN SHALL PREVAIL SHOULD THERE BE ANY DISCREPANCIES IN QUANTITIES BETWEEN THE PLAN AND PLANT SCHEDULE.
- LANDSCAPE CONTRACTOR SHALL PROVIDE PLANT PROTECTION AND MAINTENANCE THROUGHOUT INSTALLATION AND UNTIL FINAL ACCEPTANCE OF LANDSCAPE INSTALLATION AS FOLLOWS:
  - ALL PLANT MATERIAL SHALL BE PROTECTED, FROM TIME OF DIGGING TO TIME OF FINAL ACCEPTANCE, FROM INJURY, EXCESSIVE DRYING FROM WINDS, IMPROPER VENTILATION, OVER-WATERING, FREEZING, HIGH TEMPERATURES, OR ANY OTHER CONDITION DAMAGING TO PLANTS.
  - PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY IF POSSIBLE. ALL PLANTS NOT PLANTED ON THE DAY OF DELIVERY SHALL BE PLACED IN A TEMPORARY NURSERY AND KEPT MOIST, SHADED, AND PROTECTED FROM THE SUN AND WIND. EACH ROOTBALL SHALL BE COVERED ENTIRELY WITH MULCH. ALL PLANT MATERIALS SHALL BE INSTALLED PER THE PLAN DRAWINGS AND SPECIFICATIONS.
 LANDSCAPE CONTRACTOR SHALL PROVIDE PLANT MATERIALS THAT COMPLY WITH THE REQUIREMENTS OF THE MOST RECENT ANSI Z 60.1 "STANDARDS FOR NURSERY STOCK" UNLESS OTHERWISE SPECIFIED. CALIPER OF B&B TREES SHALL BE TAKEN 6 INCHES ABOVE THE GROUND UP TO AND INCLUDING 4 INCH CALIPER SIZE, AND 12 INCHES ABOVE THE GROUND FOR LARGER SIZES.
  - PLANTING MAINTENANCE SHALL INCLUDE WATERING, WEEDING, CULTIVATING, RESETTING PLANTS TO PROPER GRADES OR POSITION, RE-ESTABLISHING SETTLED GRADES. HERBICIDE IS NOT RECOMMENDED FOR ONE YEAR FOLLOWING LANDSCAPE INSTALLATION.
  - PLANT MAINTENANCE SHALL INCLUDE THOSE OPERATIONS NECESSARY TO PROPER GROWTH AND SURVIVAL OF ALL PLANT MATERIALS. CONTRACTOR SHALL PROVIDE THIS WORK IN ADDITION TO SPECIFIC WARRANTY/GUARANTEES.
- CONTRACTOR SHALL VERIFY AND MAINTAIN ALL SETBACKS, CLEAR ZONES AND SIGHT TRIANGLES REQUIRED BY ALL LOCAL AND MUNICIPAL CODES WHERE APPLICABLE.
- LANDSCAPE CONTRACTOR SHALL ENSURE THAT THE LANDSCAPE INSTALLATION IS COORDINATED WITH THE PLANS PREPARED BY OTHER CONSULTANTS SO THAT THE PROPOSED GRADING, STORM DRAINAGE OR OTHER PROPOSED CONSTRUCTION DOES NOT CONFLICT WITH NOR PRECLUDE INSTALLATION AND MAINTENANCE OF LANDSCAPE ELEMENTS AS DESIGNATED ON THIS PLAN.
- ALL PLANTING AREAS ARE TO RECEIVE 2" DEPTH OF WOOD CHIP MULCH..

## NOTE (RE DEVELOPMENT REVIEW TEAM LETTER):

- PARKING AREA, INCLUDING REQUIRED LANDSCAPING (APPROX. 75,000 SQUARE FEET) DOES NOT EXCEED 100,000 SQUARE FEET.

SHRUB AREAS	BOTANICAL / COMMON NAME	CONT	SPACING	QTY	DETAIL
	CALAMAGROSTIS X ACUTIFLORA 'OVERDAM' / OVERDAM FEATHER REED GRASS	1 GAL	24" o.c.	29	4/L-500
	CALLUNA VULGARIS 'SPRING TORCH' / SCOTCH HEATHER	2 GAL	24" o.c.	888	4/L-500
	CAREX OBNUPTA / SLOUGH SEDGE	4"POT	18" o.c.	405	4/L-500
	COTONEASTER DAMMERI 'CORAL BEAUTY' / BEARBERRY COTONEASTER	2 GAL	24" o.c.	4	4/L-500
GROUND COVERS	BOTANICAL / COMMON NAME	CONT	SPACING	QTY	DETAIL
	AJUGA REPTANS / CARPET BUGLE	1 GAL	24" o.c.	508 SF	3/L-500
	CALLUNA VULGARIS 'FIREFLY' / HEATHER	1 GAL	24" o.c.	1,003 SF	3/L-500
	EROSION CONTROL HYDROSEED MIX / EROSION CONTROL HYDROSEED MIX HYDROSEED MIX CONSISTING, BY WEIGHT, OF: 45% DWARF TALL FESCUE 30% DWARF PERENNIAL RYE (BARCLAY) 20% RED FESCUE 5% COLONIAL BENTGRASS	SEED		24,624 SF	3/L-500
	FRAGARIA CHILOENSIS / BEACH STRAWBERRY	1 GAL	24" o.c.	5,008 SF	3/L-500
	LIRIOPE MUSCARI / LILY TURF	1 GAL	18" o.c.	3,986 SF	3/L-500

## NOTE:

ALL CLEARED AND GRADED AREAS WITHIN THE PROJECT LIMITS BUT BEYOND THE EXTENTS OF THESE LANDSCAPE PLANS SHALL RECEIVE SOIL PREPARATION AND BE HYDROSEED FOR EROSION CONTROL..



PROJECT: PUYALLUP SCHOOL DISTRICT  
 KESSLER CENTER  
 1501 38TH AVENUE SOUTHWEST  
 PUYALLUP, WA 98375

REVISIONS
6-03-2020 CITY RESUBMITTAL

DATE: 2.26.2020  
 BCRA NO.: 18103  
 QAPP FILE:  
 SHEET TITLE:

LANDSCAPE SCHEDULE & NOTES



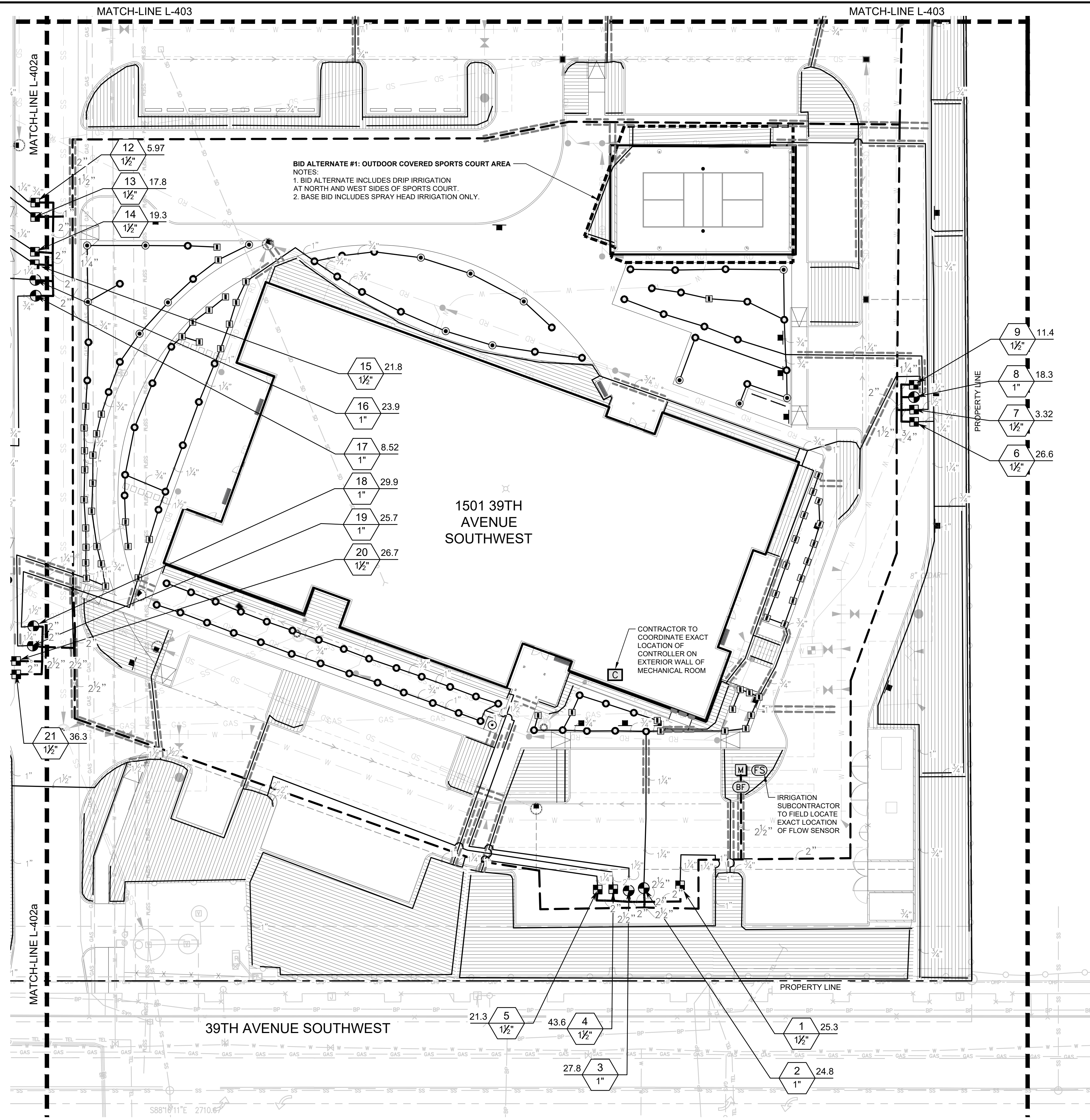
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SHEET  
**L-304**

PERMIT RESUBMITTAL







**BID ALTERNATE #1: OUTDOOR COVERED SPORTS COURT AREA**  
 NOTES:  
 1. BID ALTERNATE INCLUDES DRIP IRRIGATION AT NORTH AND WEST SIDES OF SPORTS COURT.  
 2. BASE BID INCLUDES SPRAY HEAD IRRIGATION ONLY.

1501 39TH AVENUE  
 SOUTHWEST

CONTRACTOR TO COORDINATE EXACT LOCATION OF CONTROLLER ON EXTERIOR WALL OF MECHANICAL ROOM

IRRIGATION SUBCONTRACTOR TO FIELD LOCATE EXACT LOCATION OF FLOW SENSOR

**IRRIGATION SCHEDULE L-401**

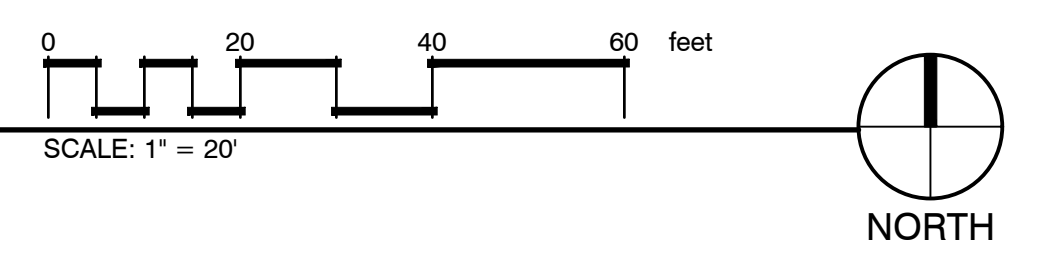
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
R-VAN14	RAIN BIRD R-VAN14 RD-04-SAM-P45 TURF ROTARY, 8'-14' 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/RD1800 TURF SPRAY BODY ON 4.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	45
R-VAN18	RAIN BIRD R-VAN18 RD-04-SAM-P45 TURF ROTARY, 13'-18' 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/RD1800 TURF SPRAY BODY ON 4.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	45
R-VAN24	RAIN BIRD R-VAN24 RD-04-SAM-P45 TURF ROTARY, 17'-24' 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/RD1800 TURF SPRAY BODY ON 4.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	45

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
[Symbol]	RAIN BIRD XCZ-150-LCS HIGH FLOW CONTROL ZONE KIT, FOR LARGE COMMERCIAL DRIP ZONES. 1-1/2" PEB GLOBE VALVE WITH SINGLE 1-1/2" PRESSURE REGULATING (40PSI) QUICK-CHECK BASKET FILTERS. FLOW RANGE: 15-62GPM.
[Symbol]	AREA TO RECEIVE DRIPLINE RAIN BIRD XFCV-09-18 (24) XFCV ON-SURFACE LANDSCAPE DRIPLINE WITH A HEAVY-DUTY 3.5 PSI CHECK VALVE, 0.9GPH EMITTERS AT 18.0" O.C. DRIPLINE LATERALS SPACED AT 18.0" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. GREAT FOR ELEVATION CHANGE.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
[Symbol]	RAIN BIRD PEB-PRS-D 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION, WITH PRESSURE REGULATOR MODULE.
[Symbol]	FEBCO 850 1-1/2" DOUBLE CHECK BACKFLOW PREVENTION, 1/2" TO 2"
[Symbol]	RAIN BIRD ESP8LXME WITH (01) ESPLXMSM12 20 STATION COMMERCIAL CONTROLLER. MOUNTED ON A PLASTIC WALL MOUNT, WITH FLOW SENSING.
[Symbol]	RAIN BIRD FS-100-P 1" FLOW SENSOR FOR USE WITH RAIN BIRD MAXICOM, SITECONTROL, AND ESP-LXD CENTRAL CONTROL SYSTEMS. PLASTIC (PVC) MODEL. SUGGESTED OPERATING RANGE OF 5.4 GPM TO 53.9 GPM. SENSORS SHOULD BE SIZED FOR FLOW RATHER THAN PIPE SIZE.
[Symbol]	WATER METER 1-1/2" IRRIGATION METER

- IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21
  - IRRIGATION MAINLINE: PVC SCHEDULE 40
  - PIPE SLEEVE: PVC SCHEDULE 40  
SIZE OF SLEEVE SHALL BE 2 TIMES THE SIZE OF THE PIPE GOING THROUGH IT.
- Valve Callout:  
 - Valve Number  
 - Valve Flow  
 - Valve Size

1 IRRIGATION PLAN - SOUTH PARKING  
 L-401



APPROVED FINAL LANDSCAPE PLAN  
 BY: *Robert Brown*  
 PLANNING DIVISION  
 DATE: 6/8/2020  
 NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.  
 THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.  
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**bcra**  
 STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT  
 JONATHAN MAMARA  
 LICENSE NO. 903  
 EXPIRES ON 06/29/2020

PROJECT: PUYALLUP SCHOOL DISTRICT  
**KESSLER CENTER**  
 1501 39TH AVENUE SOUTHWEST  
 PUYALLUP, WA 98375

REVISIONS

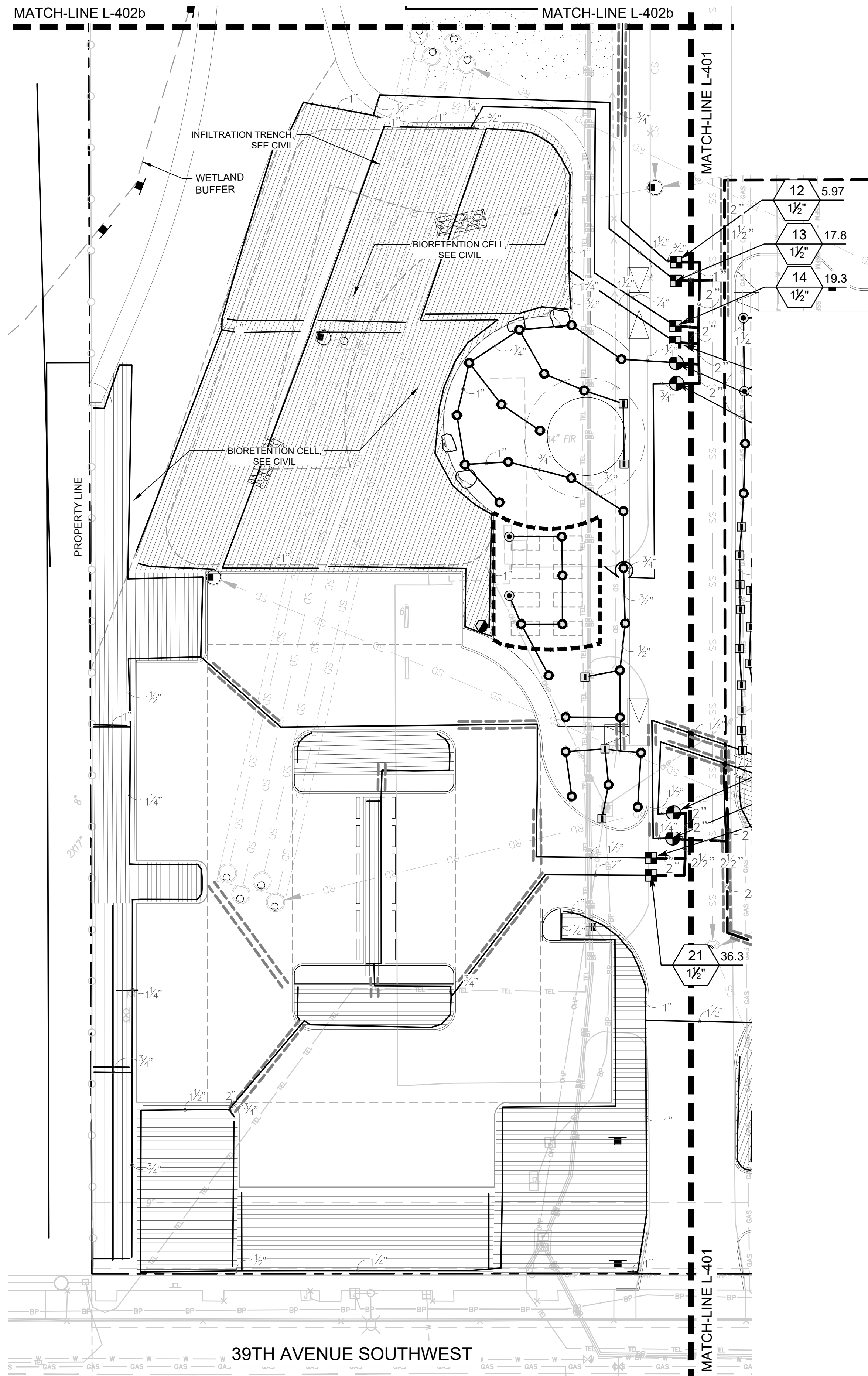
6-03-2020	CITY RESUBMITTAL

DATE: 2.26.2020  
 BCRA NO.: 18103  
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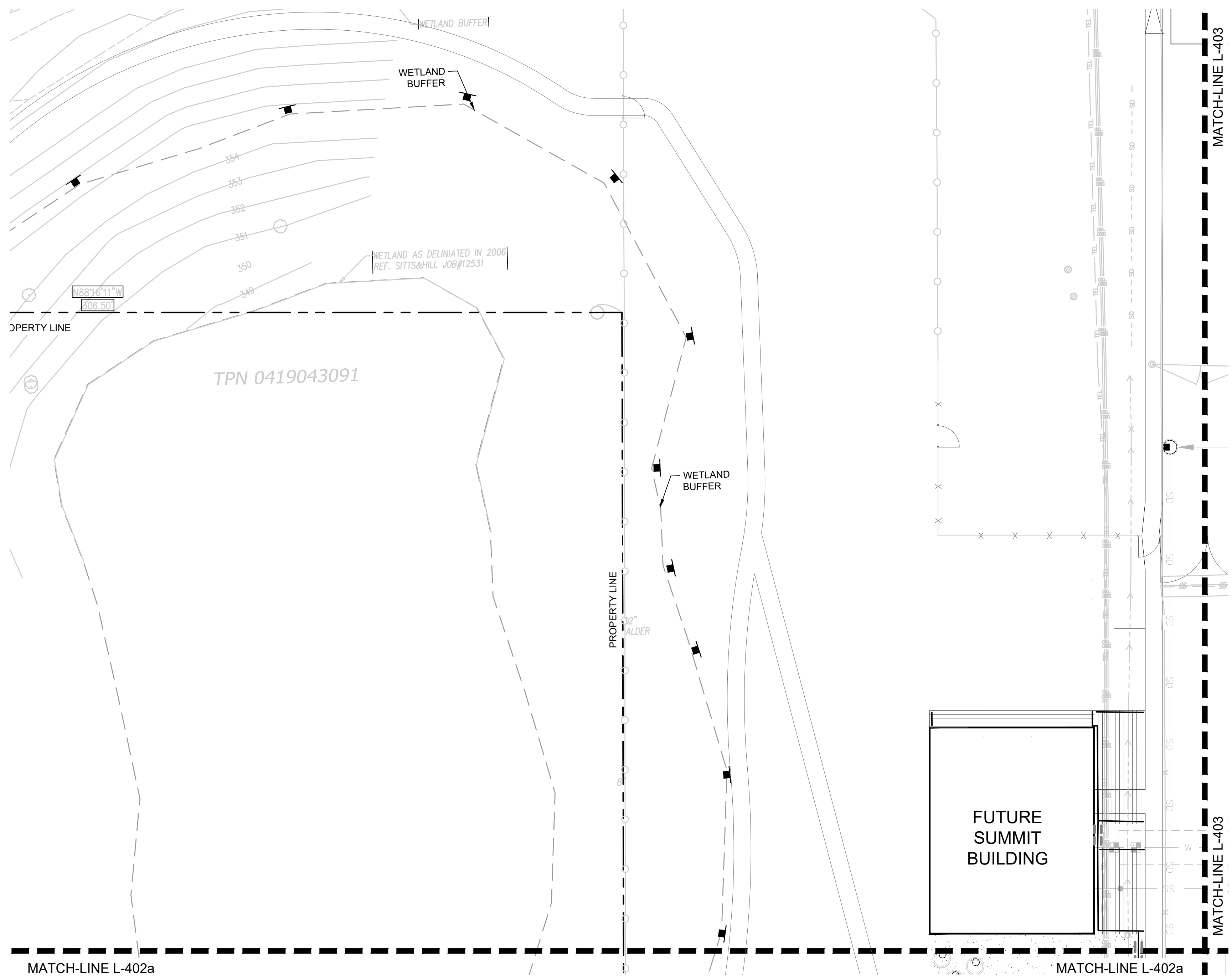
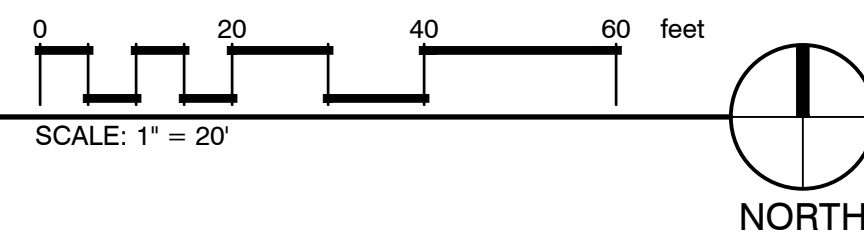
SHEET TITLE: IRRIGATION PLAN - SOUTH PARKING  
**bcra**  
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**L-401**  
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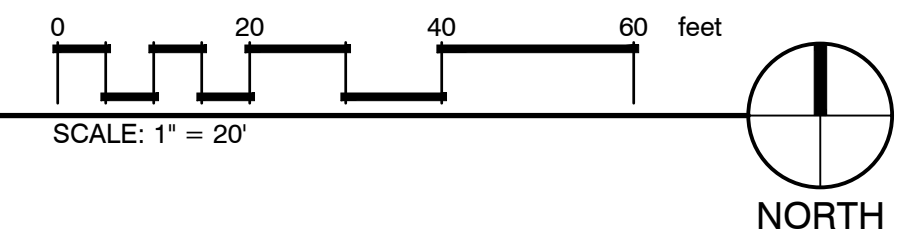
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1 IRRIGATION PLAN - WEST PARKING



1 IRRIGATION PLAN - FUTURE SUMMIT BUILDING & NATURE WALK PATH



IRRIGATION SCHEDULE L-402

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	RAIN BIRD R-VAN14 RD-04-SAM-P45 TURF ROTARY, 8'-14' 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/RD1800 TURF SPRAY BODY ON 4.0\"/>		RAIN BIRD PEB-PRS-D 1\", 1-1/2\", 2\"/>
	RAIN BIRD R-VAN18 RD-04-SAM-P45 TURF ROTARY, 13'-18' 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/RD1800 TURF SPRAY BODY ON 4.0\"/>		RAIN BIRD 33-DLRC (2) 3/4\"/>
	RAIN BIRD R-VAN24 RD-04-SAM-P45 TURF ROTARY, 17'-24' 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/RD1800 TURF SPRAY BODY ON 4.0\"/>		IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21
	RAIN BIRD XCZ-150-LCS HIGH FLOW CONTROL ZONE KIT, FOR LARGE COMMERCIAL DRIP ZONES. 1-1/2\"/>		IRRIGATION MAINLINE: PVC SCHEDULE 40
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFCV-09-18 (24) XFCV ON-SURFACE LANDSCAPE DRIPLINE WITH A HEAVY-DUTY 3.5 PSI CHECK VALVE. 0.9GPH EMITTERS AT 18.0\"/>		PIPE SLEEVE: PVC SCHEDULE 40 SIZE OF SLEEVE SHALL BE 2 TIMES THE SIZE OF THE PIPE GOING THROUGH IT.

APPROVED FINAL LANDSCAPE PLAN  
 BY: *Richard Brown*  
 PLANNING DIVISION  
 DATE: 6/8/2020  
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PROJECT: PUYALLUP SCHOOL DISTRICT  
**KESSLER CENTER**  
 1501 39TH AVENUE SOUTHWEST  
 PUYALLUP, WA 98375

REVISIONS

6-03-2020	CITY RESUBMITTAL

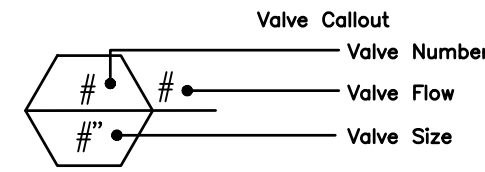
DATE: 2.26.2020  
 BCRA NO.: 18103  
 QDD FILE

SHEET TITLE: IRRIGATION PLAN - WEST PARKING, FUTURE SUMMIT BUILDING & NATURE WALK PATH



IRRIGATION SCHEDULE

	RAIN BIRD R-VAN18 RD-04-SAM-P45 TURF ROTARY, 13'-18" 45-270 DEGREES AND 360 DEGREES, HAND ADJUSTABLE MULTI-STREAM ROTARY W/RD1800 TURF SPRAY BODY ON 4.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR, 1/2" NPT FEMALE THREADED INLET.	104	45	8/L-501
	RAIN BIRD R-VAN24 RD-04-SAM-P45 TURF ROTARY, 17'-24" 45-270 DEGREES AND 360 DEGREES, HAND ADJUSTABLE MULTI-STREAM ROTARY W/RD1800 TURF SPRAY BODY ON 4.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR, 1/2" NPT FEMALE THREADED INLET.	17	45	8/L-501
	RAIN BIRD XZ-150-LCS HIGH FLOW CONTROL ZONE KIT, FOR LARGE COMMERCIAL DRIP ZONES, 1-1/2" PEB GLOBE VALVE WITH SINGLE 1-1/2" PRESSURE REGULATING (40PSI) QUICK-CHECK BASKET FILTERS, FLOW RANGE: 15-62GPM.	14		4/L-501
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFCV-09-18 (24) XFCV ON-SURFACE LANDSCAPE DRIPLINE WITH A HEAVY-DUTY 3.5 PSI CHECK VALVE, 0.9GPH EMITTERS AT 18.0" O.C. DRIPLINE LATERALS SPACED AT 18.0" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN, GREAT FOR ELEVATION CHANGE.	51,526 S.F.		6/L-501
	RAIN BIRD PEB-PRS-D 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES, LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION, WITH PRESSURE REGULATOR MODULE.	7		3/L-501
	RAIN BIRD 33-DLRC (2) 3/4" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, DOUBLE TRACK KEY LUG, AND 2-PIECE BODY.	1		7/L-501
	FEBCO 850 1-1/2" DOUBLE CHECK BACKFLOW PREVENTION, 1/2" TO 2"	1		
	RAIN BIRD ESP8XME WITH (01) ESPLXMSM12 20 STATION COMMERCIAL CONTROLLER, MOUNTED ON A PLASTIC WALL MOUNT, WITH FLOW SENSING.	1		1/L-501
	RAIN BIRD FS-100-P 1" FLOW SENSOR FOR USE WITH RAIN BIRD MAXICOM, SITECONTROL, AND ESP-LXD CENTRAL CONTROL SYSTEMS, PLASTIC (PVC) MODEL, SUGGESTED OPERATING RANGE OF 5.4 GPM TO 33.9 GPM, SENSORS SHOULD BE SIZED FOR FLOW RATHER THAN PIPE SIZE.	1		
	WATER METER 1-1/2" IRRIGATION METER	1		
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21	10,231 L.F.		2/L-501
	IRRIGATION MAINLINE: PVC SCHEDULE 40	1,455 L.F.		2/L-501
	PIPE SLEEVE: PVC SCHEDULE 40 SIZE OF SLEEVE SHALL BE 2 TIMES THE SIZE OF THE PIPE GOING THROUGH IT.	1,067 L.F.		5/L-501



CRITICAL ANALYSIS

Generated: 2020-02-06 15:04

P.O.C. NUMBER: 01  
Water Source Information: IRRIGATION METER

FLOW AVAILABLE  
Water Meter Size: 1-1/2"  
Flow Available: 75.00 gpm

PRESSURE AVAILABLE  
Static Pressure at POC: 70.00 psi  
Elevation Change: 5.00 ft  
Service Line Size: 3"  
Length of Service Line: 20.00 ft  
Pressure Available: 68.00 psi

DESIGN ANALYSIS  
Maximum Station Flow: 43.62 gpm  
Flow Available at POC: 75.00 gpm  
Residual Flow Available: 31.38 gpm

Critical Station: 18  
Design Pressure: 45.00 psi  
Friction Loss: 6.53 psi  
Fittings Loss: 0.65 psi  
Elevation Loss: 0.00 psi  
Loss through Valve: 5.58 psi  
Pressure Req. at Critical Station: 57.77 psi  
Loss for Fittings: 0.11 psi  
Loss for Main Line: 1.14 psi  
Loss for POC to Valve Elevation: 0.00 psi  
Loss for Backflow: 6.50 psi  
Loss for Water Meter: 1.79 psi  
Critical Station Pressure at POC: 67.31 psi  
Pressure Available: 68.00 psi  
Residual Pressure Available: 0.69 psi

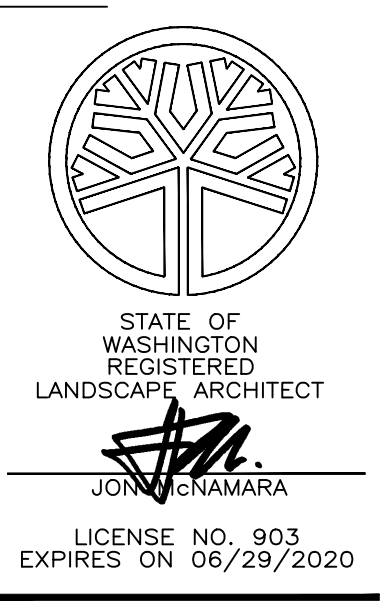
IRRIGATION NOTES:

- THE CONTRACTOR IS TO INSTALL AN AUTOMATIC IRRIGATION SYSTEM THAT WILL PROVIDE 100% COVERAGE FOR ALL LANDSCAPED AREAS.
- REFER TO SPECIFICATIONS AND DETAILS FOR INSTALLATION INSTRUCTIONS.
- MEET ALL APPLICABLE LOCAL AND MUNICIPAL CODES FOR WORK NECESSARY IN IRRIGATION SYSTEM INSTALLATION.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LICENSES, PERMITS, AND USE/SALES TAXES APPLICABLE TO THIS PROJECT.
- VERIFY ALL SITE INFORMATION PRIOR TO CONSTRUCTION. NOTIFY OWNER/LANDSCAPE ARCHITECT OF ANY DISCREPANCIES FROM PREPARED IRRIGATION PLANS.
- LOCATE ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO UNDERGROUND UTILITIES CAUSED BY INSTALLATION OF IRRIGATION SYSTEM.
- CONTRACTOR IS TO REFER TO AND COORDINATE IRRIGATION SYSTEM INSTALLATION WITH LANDSCAPE PLANS. AVOID CONFLICTING LOCATIONS BETWEEN PIPING AND LANDSCAPE MATERIAL, EDGING, ETC.
- TAP LOCATION ON PLAN IS SCHEMATIC, CONTRACTOR IS TO VERIFY LOCATION AND COORDINATE WITH OWNER AND ALL OTHER DISCIPLINES.
- CONTRACTOR IS TO PROVIDE ALL NECESSARY PIPE, VALVES, ETC. DOWNSTREAM FROM POINT OF CONNECTION NOT INSTALLED BY OTHER DISCIPLINES.
- CONTRACTOR IS TO VERIFY AVAILABLE PRESSURE AND FLOW AT POINT OF CONNECTION PRIOR TO INSTALLATION OF IRRIGATION SYSTEM EQUIPMENT AND NOTIFY LANDSCAPE ARCHITECT WITH VERIFICATION FIGURES. FAILURE TO NOTIFY LANDSCAPE ARCHITECT WILL RESULT IN CONTRACTOR TAKING RESPONSIBILITY FOR ANY ALTERATIONS TO THE PLAN DUE TO VARIATIONS OF PRESSURE OR FLOW AT HIS/HER OWN RISK.
- INSTALL MANUAL DRAIN VALVES AT ALL LOW POINTS TO ALLOW FOR SYSTEM WINTERIZATION.
- CONTRACTOR TO COORDINATE INSTALLATION OF SLEEVING WITH BUILDING CONSTRUCTION AND INSTALLATION OF PAVING AND SIDEWALKS. ALL SLEEVING UNDER PAVED SURFACES SHOWN ON PLANS IS BY CONTRACTOR UNLESS OTHERWISE NOTED. ALL MAINLINES, LATERAL LINES, DRIP LINES AND CONTROL WIRES UNDER PAVED SURFACES ARE TO BE INSTALLED IN SLEEVING. INSTALL SLEEVING AS PER DETAIL AND SPECIFICATIONS. ALL SLEEVING TO BE TWICE THE SIZE OF PIPING ROUTED THROUGH SLEEVE.
- ALL PIPING, PVC ELECTRICAL SLEEVES, ETC. UNDER PAVING SHALL BE INSTALLED PRIOR TO PAVING WORK. NO TEES, ELLS OR OTHER TURNS IN PIPING SHALL BE LOCATED UNDER PAVING EXCEPT WHERE SHOWN ON DRAWING. CAP ALL ENDS HAND TIGHT PRIOR TO BACKFILL. USE PVC SCHEDULE 40 PIPE FOR ALL NON-PRESSURE LATERAL LINE PIPING INSTALLED UNDER PAVED AREAS.
- CONTRACTOR IS TO PROVIDE ELECTRICAL POWER TO THE AUTOMATIC CONTROLLER. COORDINATE LOCATION WITH OWNER/LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL EXTEND SPARE CONTROL WIRES FROM EACH CONTROLLER TO THE END OF THE MAINLINE SERVING THAT CONTROLLER. SEE DETAILS AND SPECIFICATIONS FOR NUMBER OF SPARE WIRES AND INSTALLATION REQ.
- INSTALL ALL MATERIALS AND EQUIPMENT AS SHOWN IN DETAILS. USE TEFLON TAPE OR TEFLON PIPE DOPE ON ALL MALE PIPE THREADS ON ALL IRRIGATION SWING JOINT AND VALVE ASSEMBLIES.
- ALL TRENCHES TO BE PUDDLED AND COMPACTED TO THE SAME DENSITY AS THE UNDISTURBED ADJACENT SOIL.
- CONTRACTOR TO PERFORM IRRIGATION AUDIT FOR IRRIGATION ZONES AS PART OF FINAL IRRIGATION ACCEPTANCE.
- IT IS THE INTENT OF THIS DESIGN THAT ALL IRRIGATION EQUIPMENT BE INSTALLED IN LANDSCAPED AREAS AND WITHIN THE PROPERTY LIMITS. ANY EQUIPMENT SHOWN OUTSIDE OF THESE LIMITS IS SHOWN IN THAT LOCATION FOR GRAPHICAL CLARITY ONLY. ALL VALVE BOXES SHALL BE INSTALLED A MINIMUM OF 2'-0" FROM EDGE OF ANY PAVED SURFACES. AND A MINIMUM OF 3'-0" FROM THE CENTERLINE OF ANY DRAINAGE SWALES.
- IF PROPOSED IRRIGATION SYSTEM IS CONNECTING TO AN EXISTING SYSTEM, CONTRACTOR IS RESPONSIBLE FOR TESTING AND VERIFYING BOTH EXISTING AND NEW IRRIGATION SYSTEMS PROVIDE 100% COVERAGE.

Date Plotted: Jun 03, 2020 - 11:18am Filename: L400 IRRIGATION.dwg By: ESTREEBY

APPROVED FINAL LANDSCAPE PLAN  
BY: *Richard Brown*  
PLANNING DIVISION  
DATE: 6/8/2020

NOTE:  
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PROJECT: PUYALLUP SCHOOL DISTRICT  
KESSELER CENTER  
1801 39TH AVENUE SOUTHWEST  
PUYALLUP, WA 98375

REVISIONS

6-03-2020	CITY RESUBMITTAL

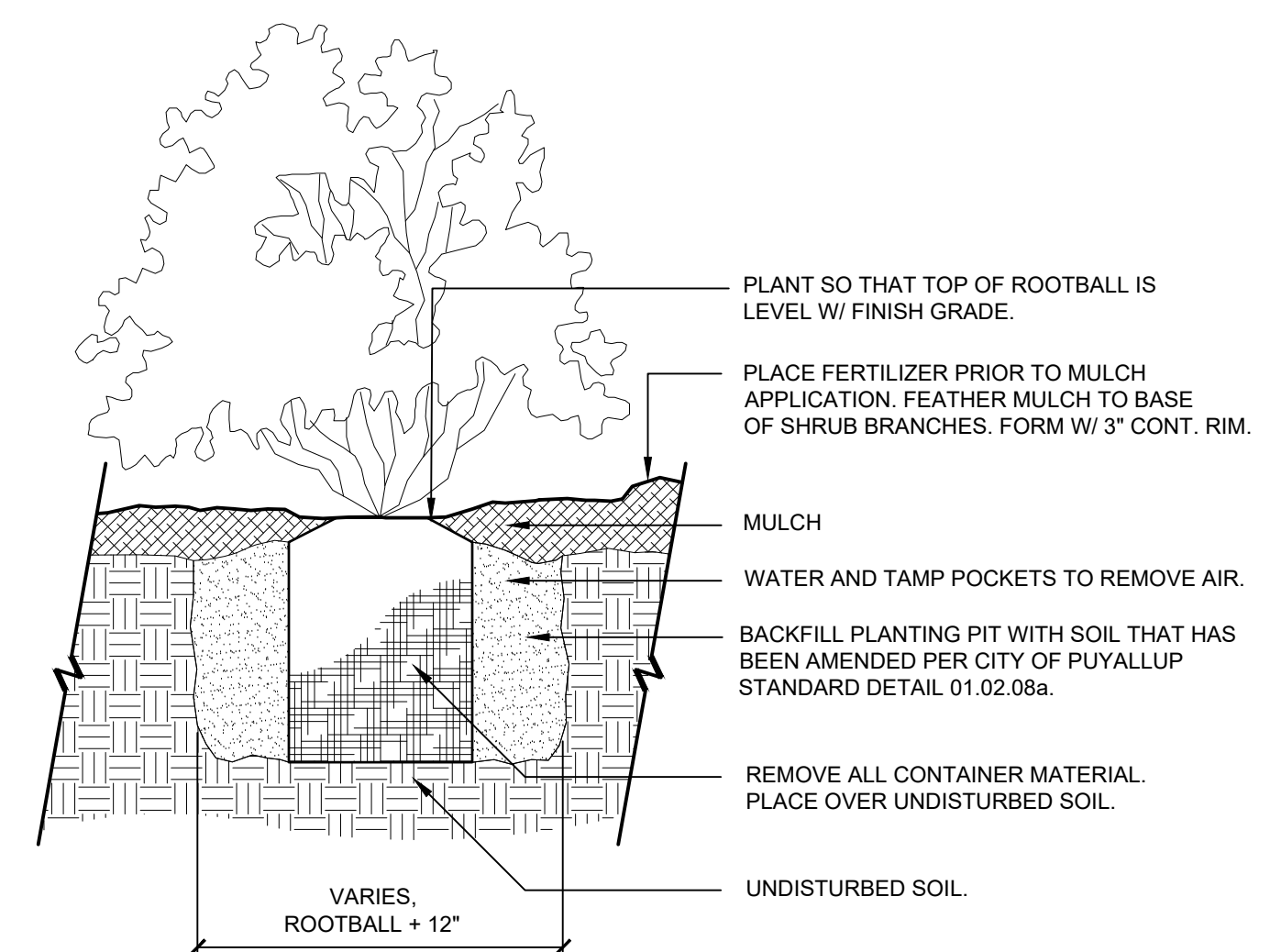
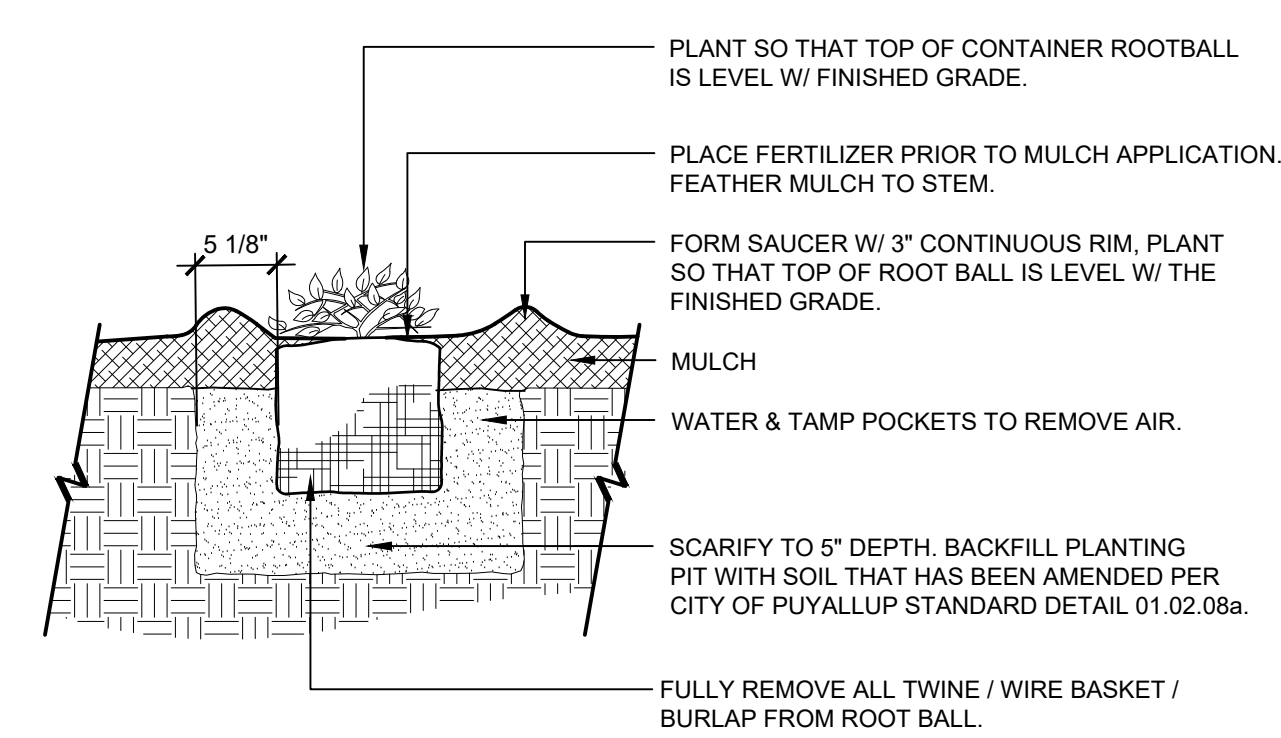
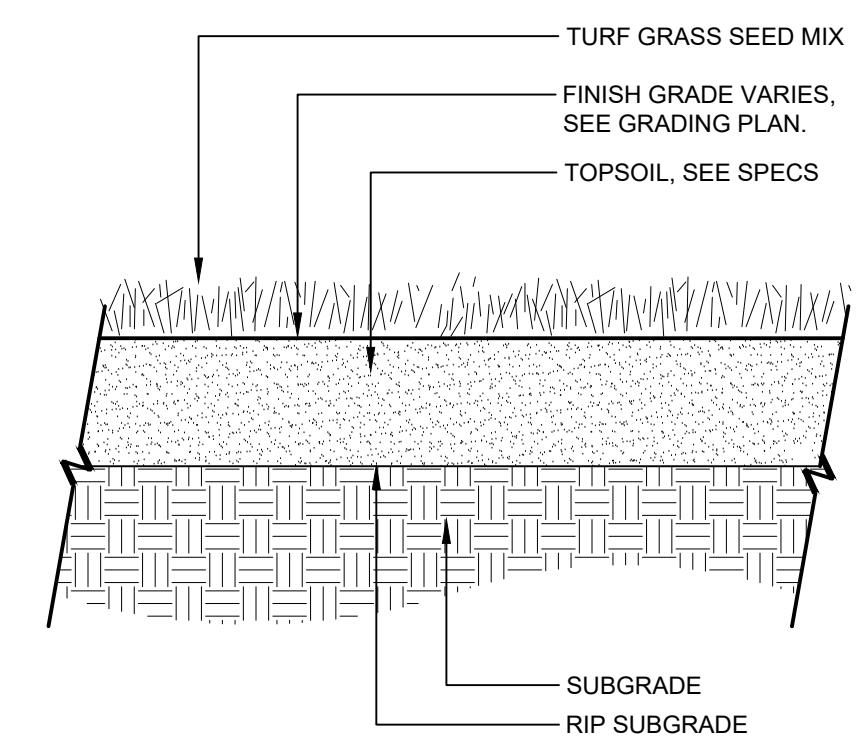
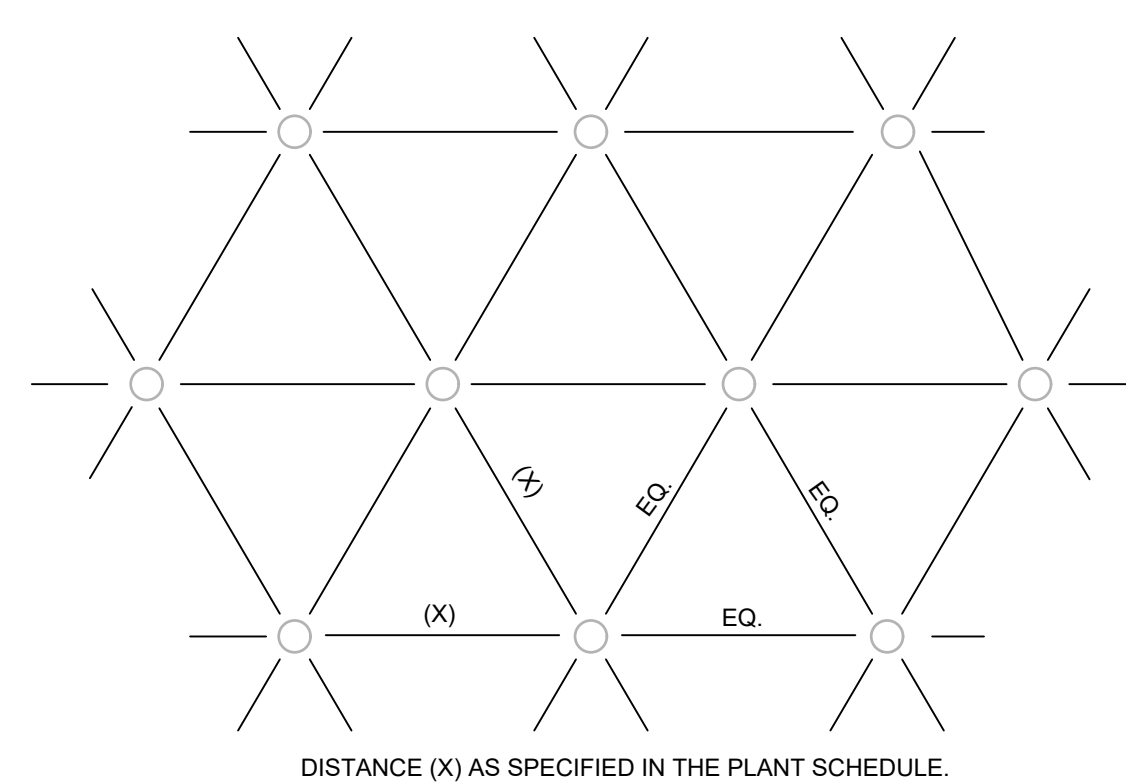
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BCRA NO.: 18103  
CDD FILE

SHEET TITLE: IRRIGATION SCHEDULE & NOTES



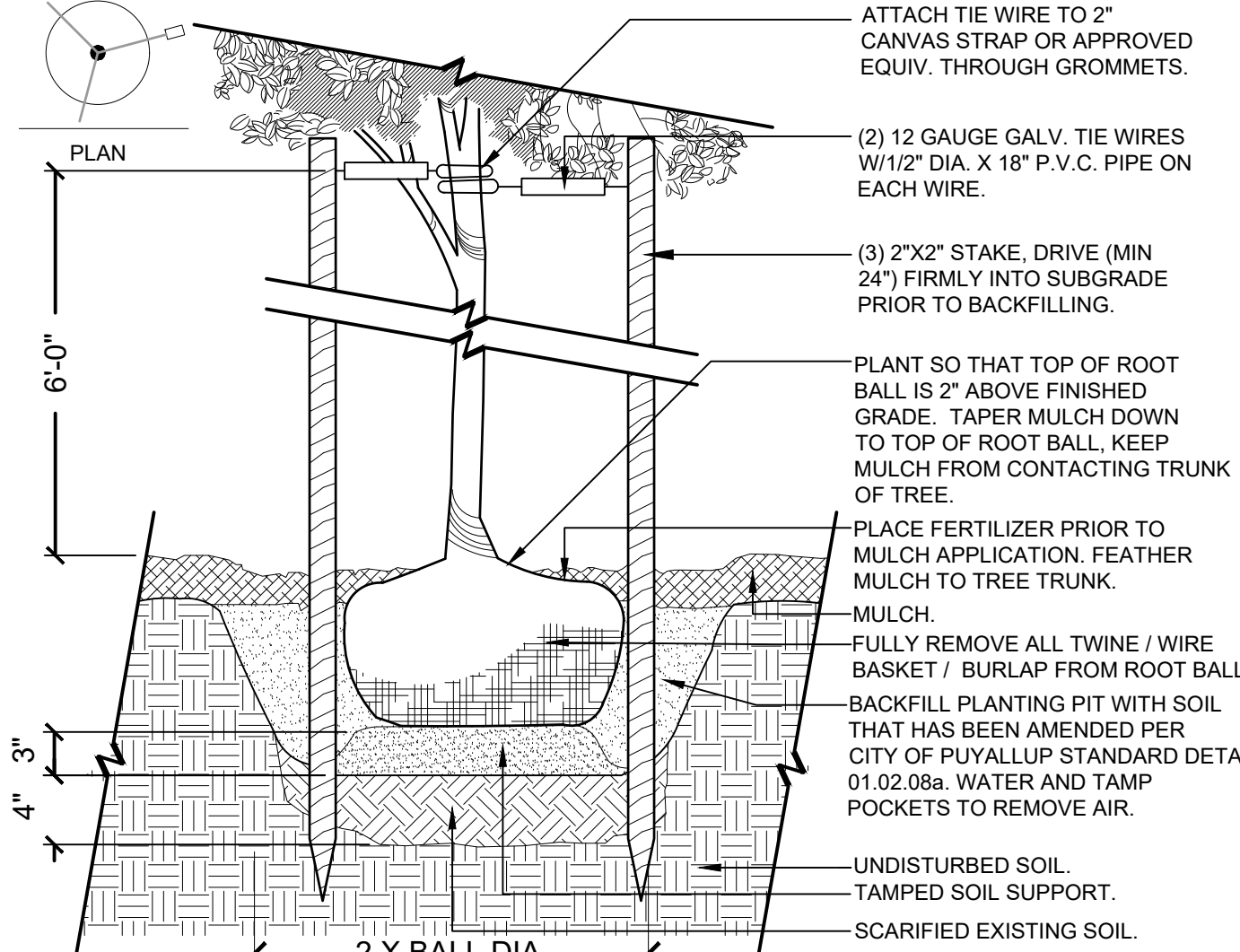
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SHEET: L-404  
PERMIT RESUBMITTAL



**1 PLANT SPACING**  
 1" = 1" 329300-03

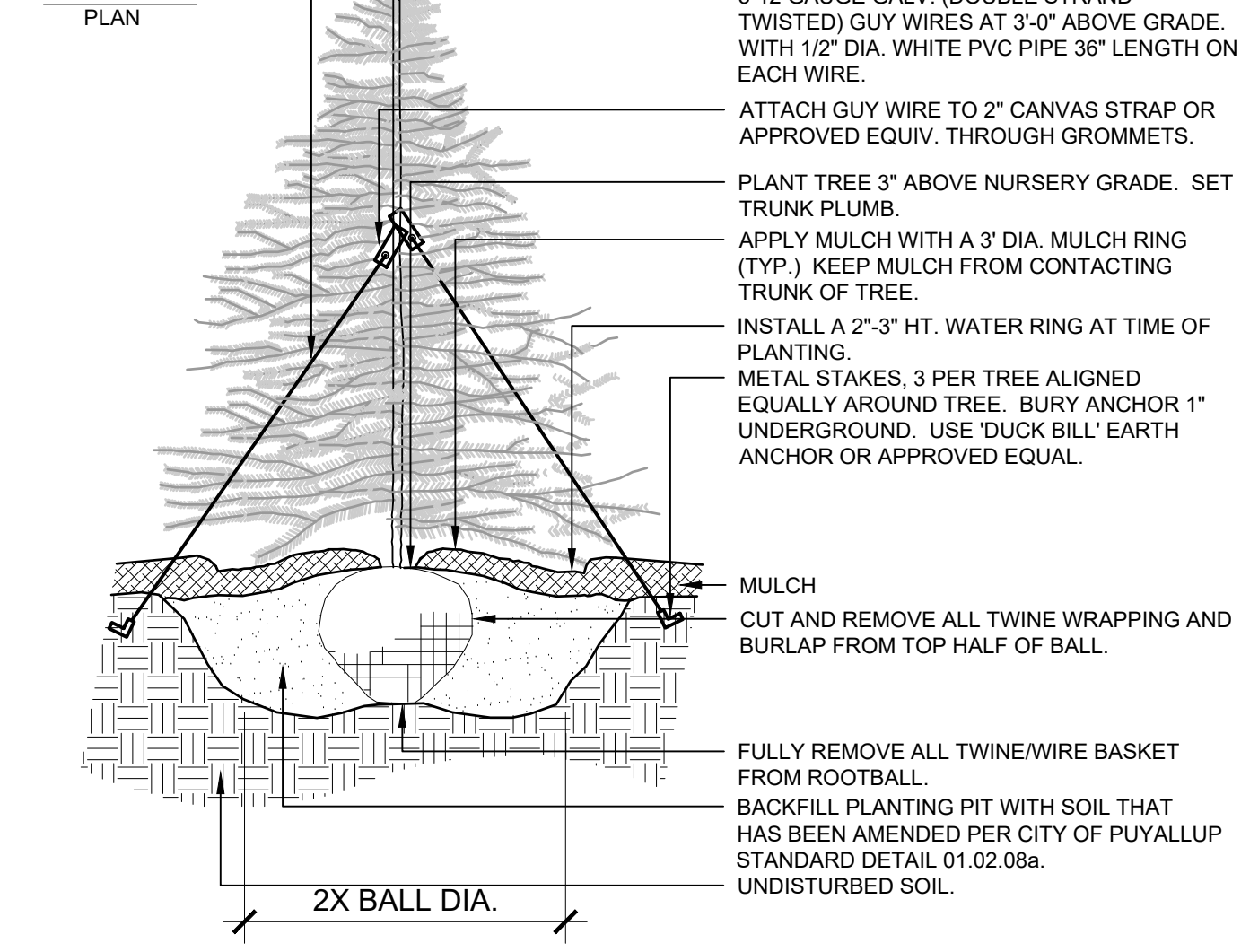
**NOTE:**  
 1. DO NOT CUT LEADER. PRUNE ALL DAMAGED OR DEAD WOOD AFTER PLANTING, STAKING AND MULCHING.  
 2. KEEP CROWN SHAPE TYPICAL OF SPECIES.  
 3. REMOVE ALL PLANTING LABELS AFTER FINAL ACCEPTANCE BY LANDSCAPE ARCHITECT.  
 4. PROVIDE TREE PROTECT FENCING AS NECESSARY TO PREVENT CONSTRUCTION DAMAGE.



**5 DECIDUOUS TREE PLANTING**  
 1" = 1" P-ED-KES-05

**2 TURF**  
 1" = 1" 329313-02

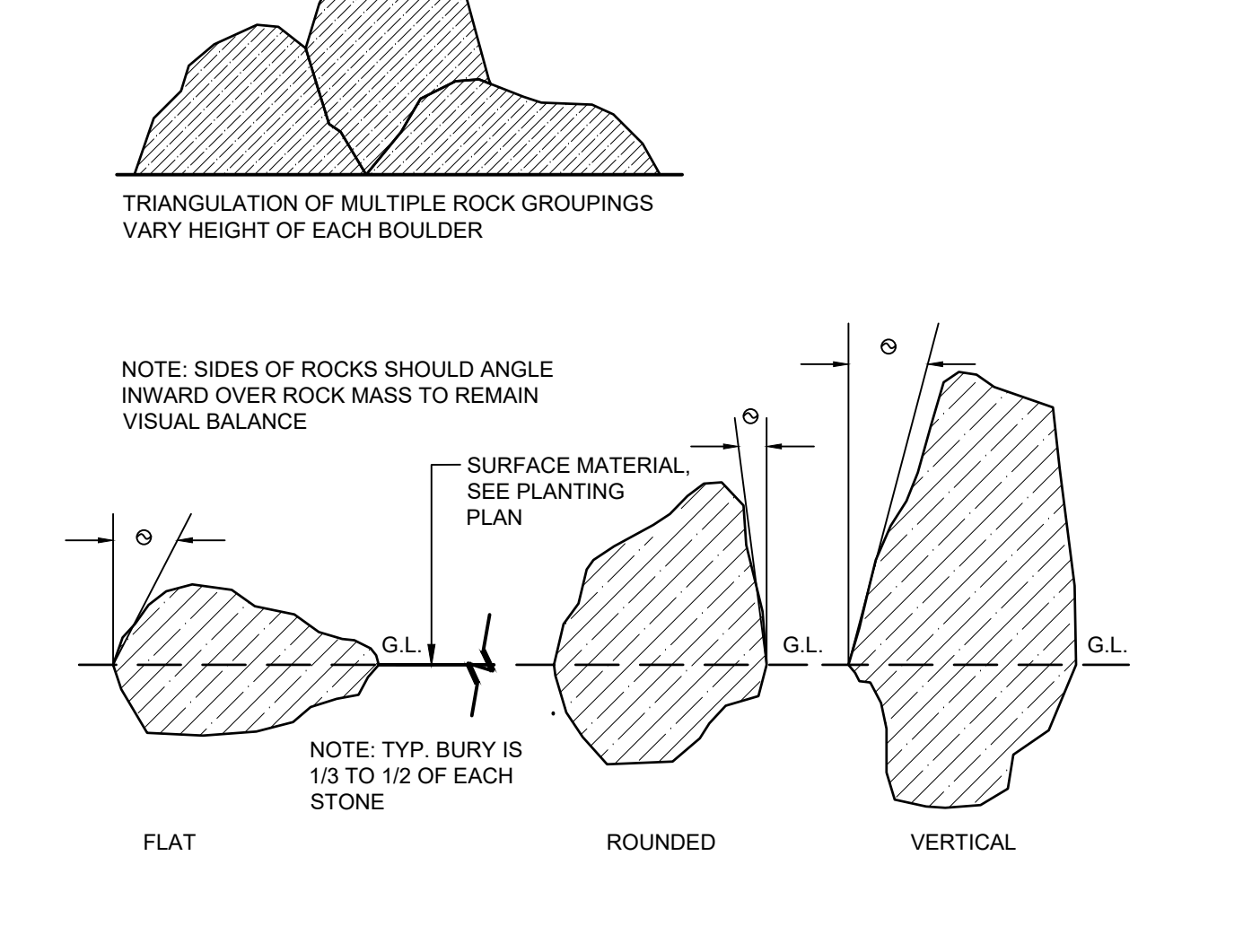
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**6 EVERGREEN TREE PLANTING**  
 1" = 1" P-ED-KES-06

**3 GROUNDCOVER PLANTING**  
 1" = 1" P-ED-YEL-24

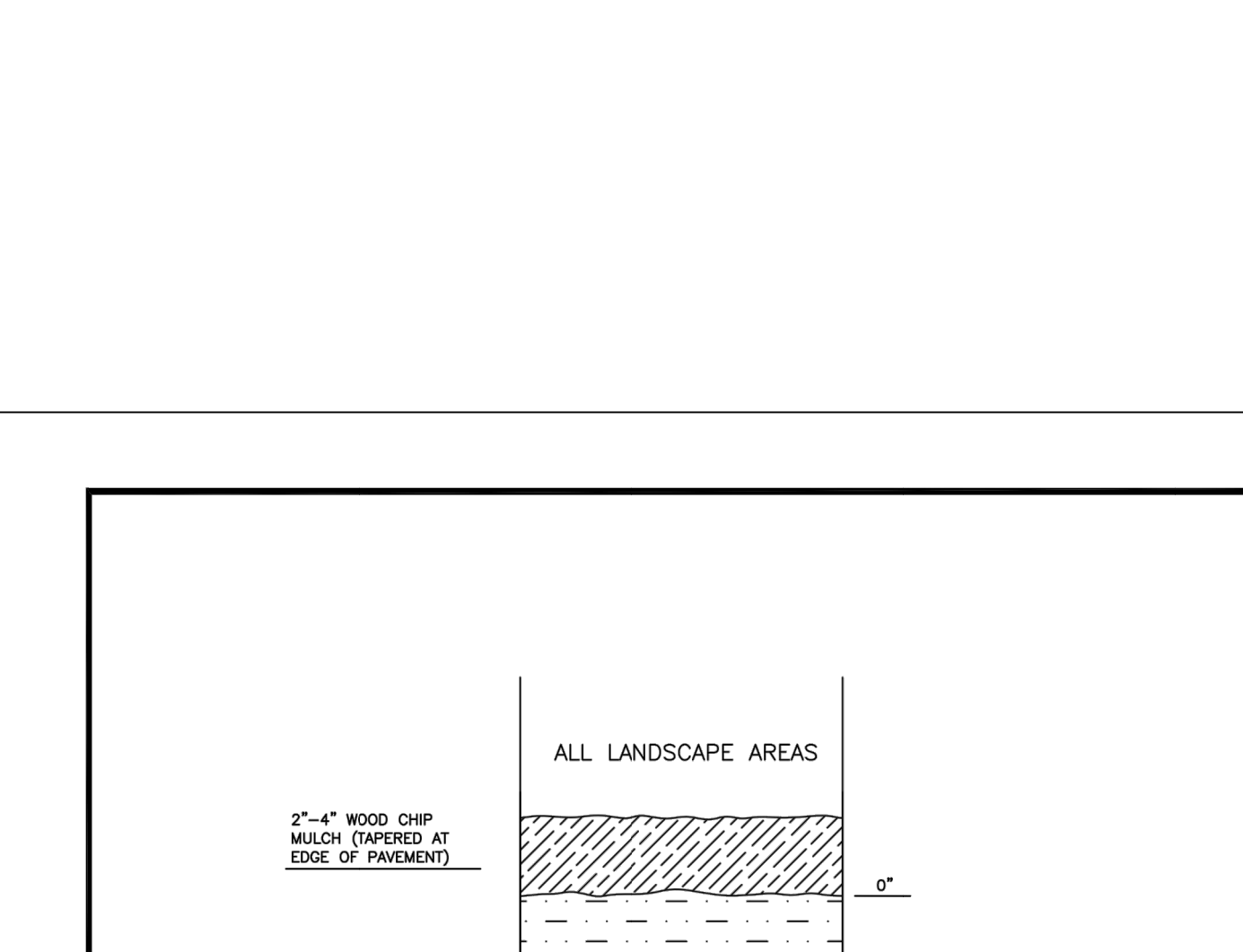
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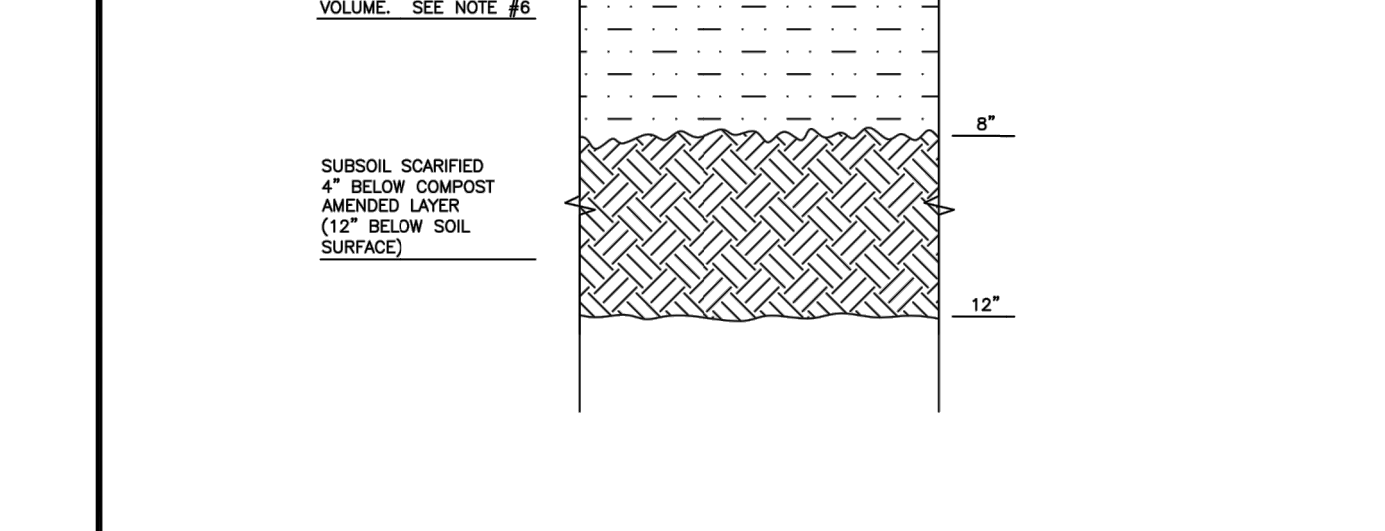
**7 BOULDER PLACEMENT**  
 1" = 1" 329499-01

**4 SHRUB PLANTING - CONTAINER**  
 1" = 1" P-ED-YEL-25

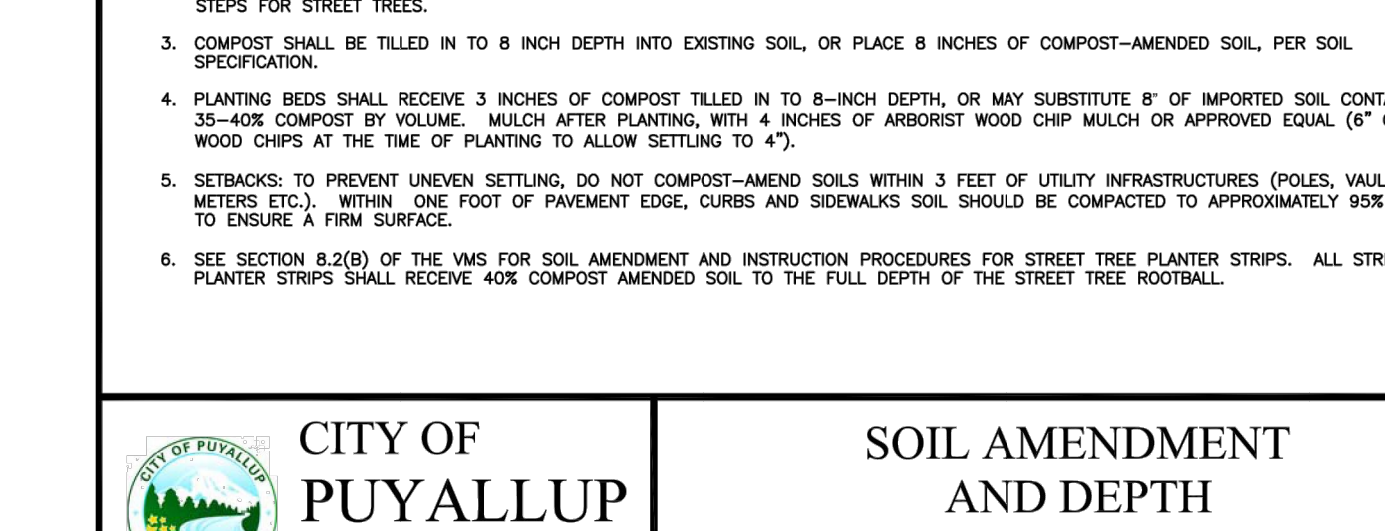
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**8 WOOD CHIP TRAIL**  
 3/4" = 1" P-ED-KES-01

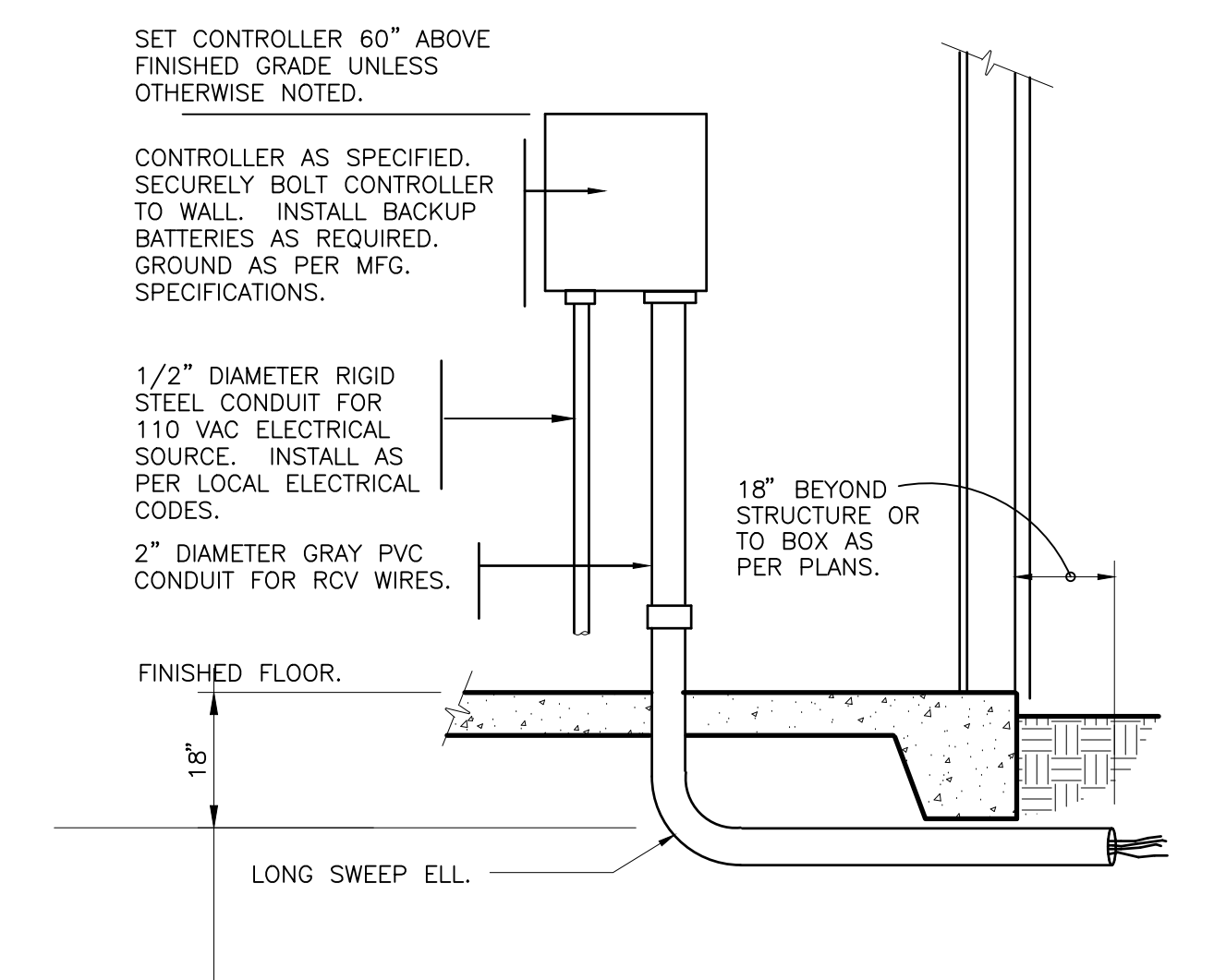


**9 EXISTING TREE PROTECTION**  
 1" = 1" 329343.90-99

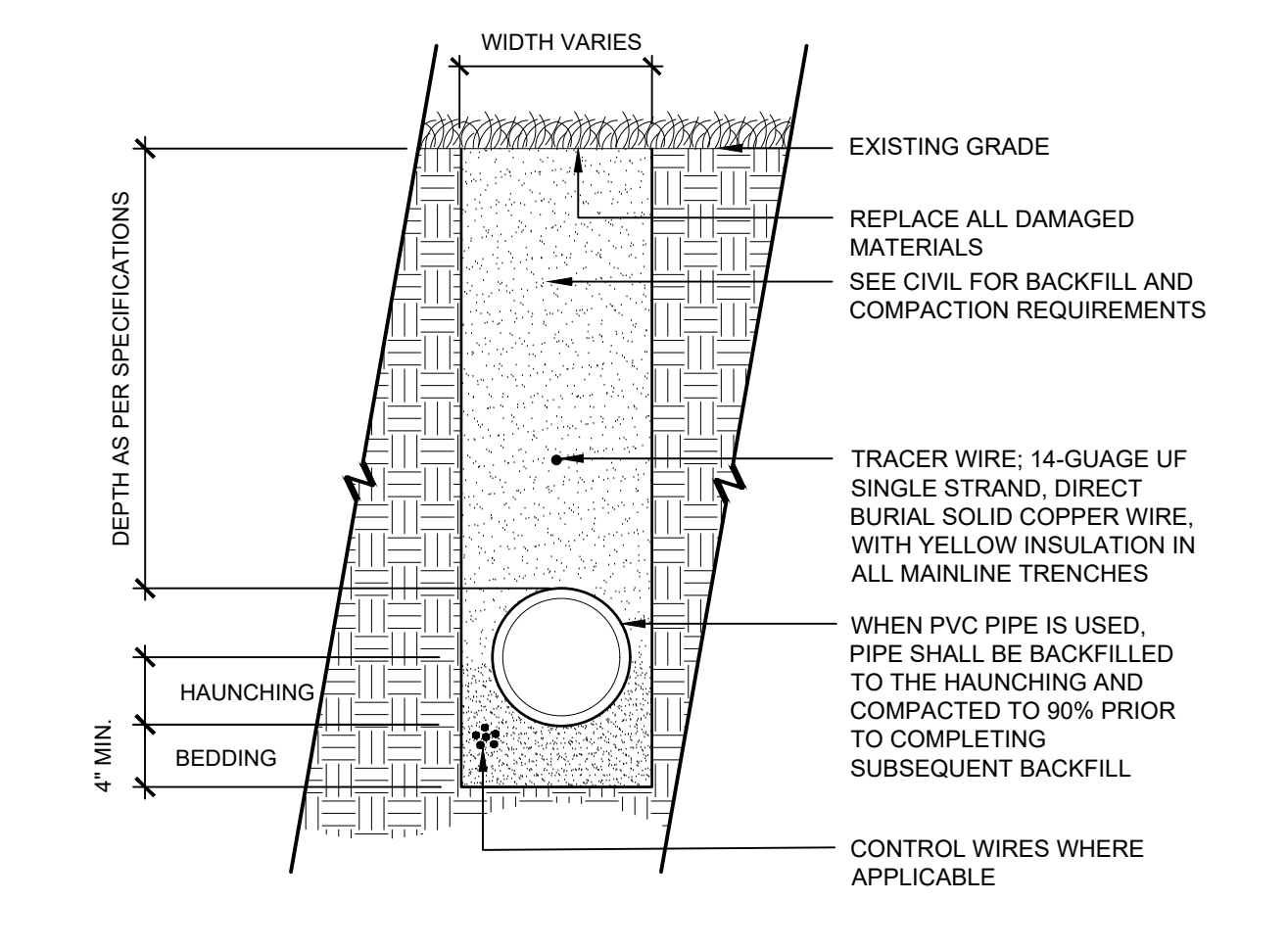


**APPROVED FINAL LANDSCAPE PLAN**  
 BY: [Signature]  
 PLANNING DIVISION  
 DATE: 6/8/2020  
**NOTE:**  
 THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL DATE.  
 THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.  
 FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE PLANNING DIRECTOR, DESIGNER OR PROJECT PLANNER.

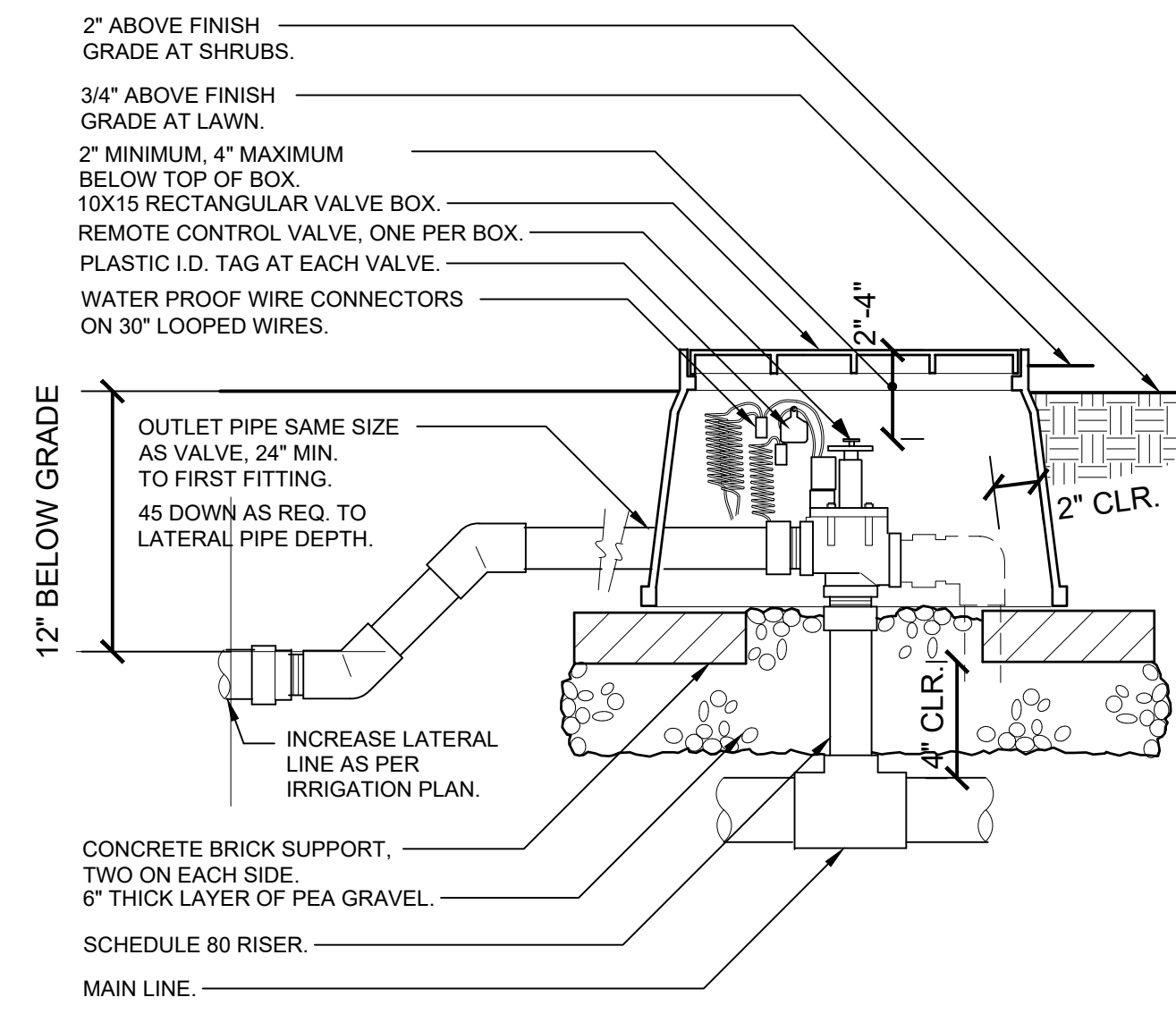
DATE	BY	REVISION



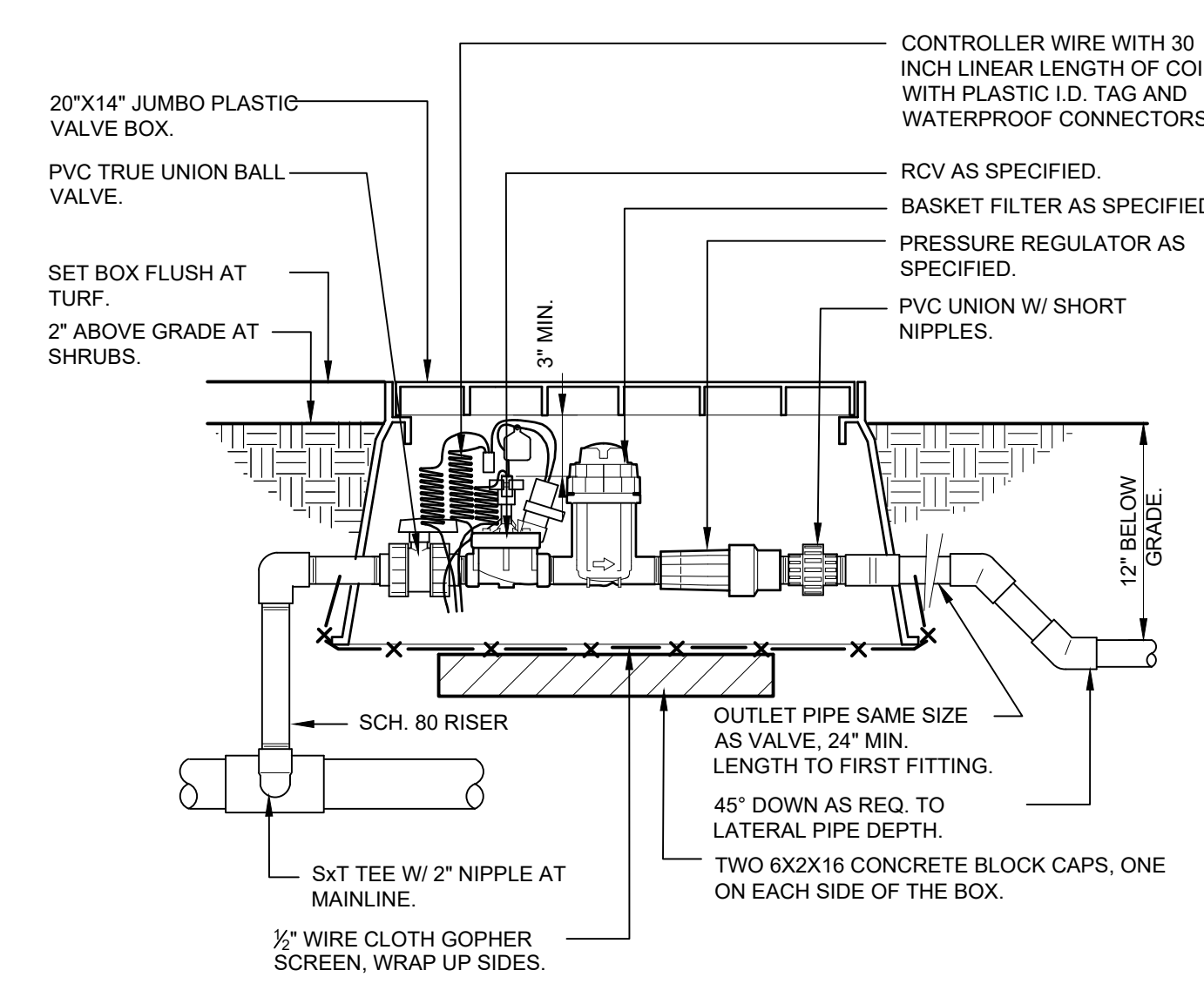
**1** INTERIOR WALL MOUNT CONTROLLER  
1" = 1'-0" 328409.13-08



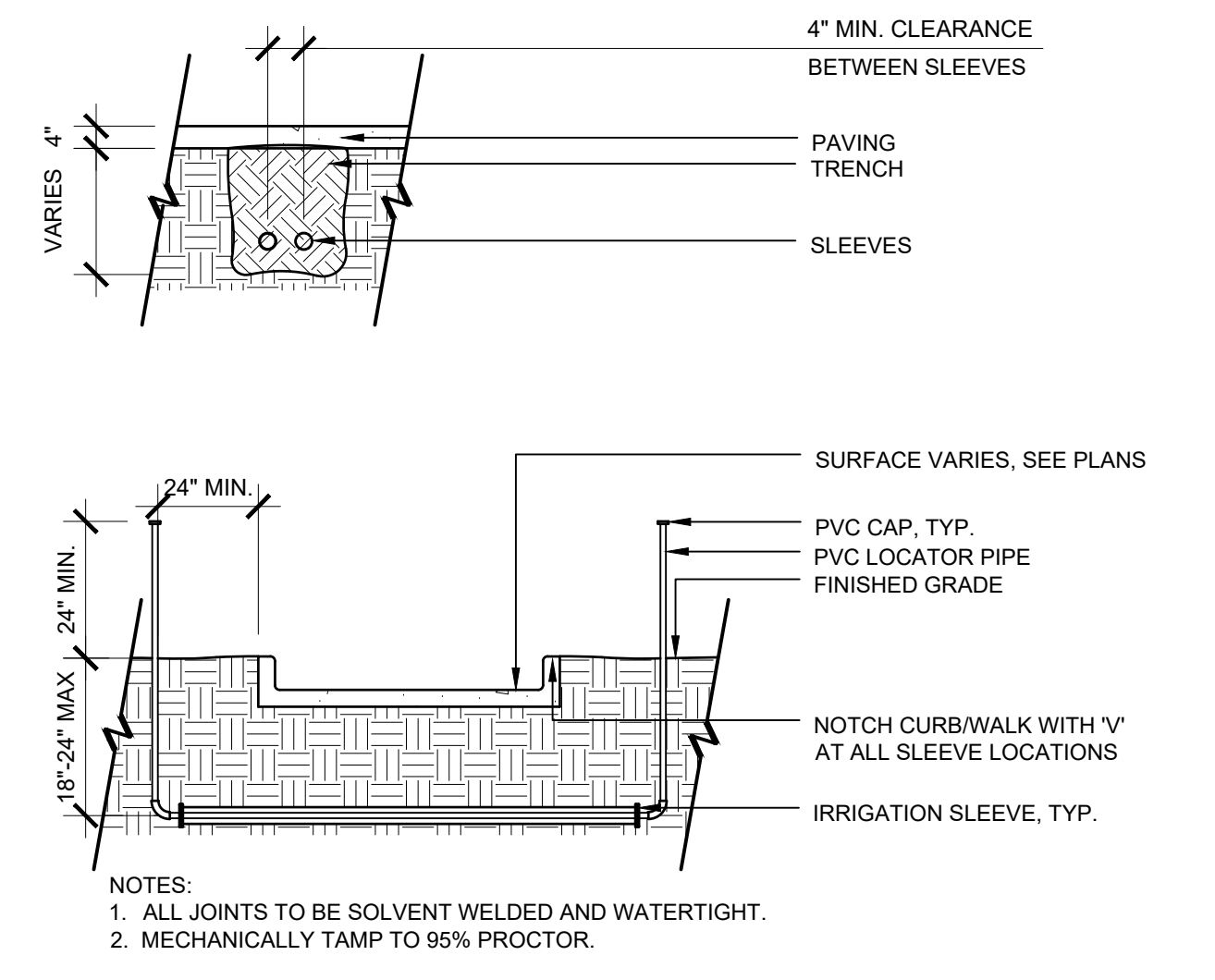
**2** TRENCH DETAIL WITH TRACER WIRE  
1" = 1'-0" 328409.76-12



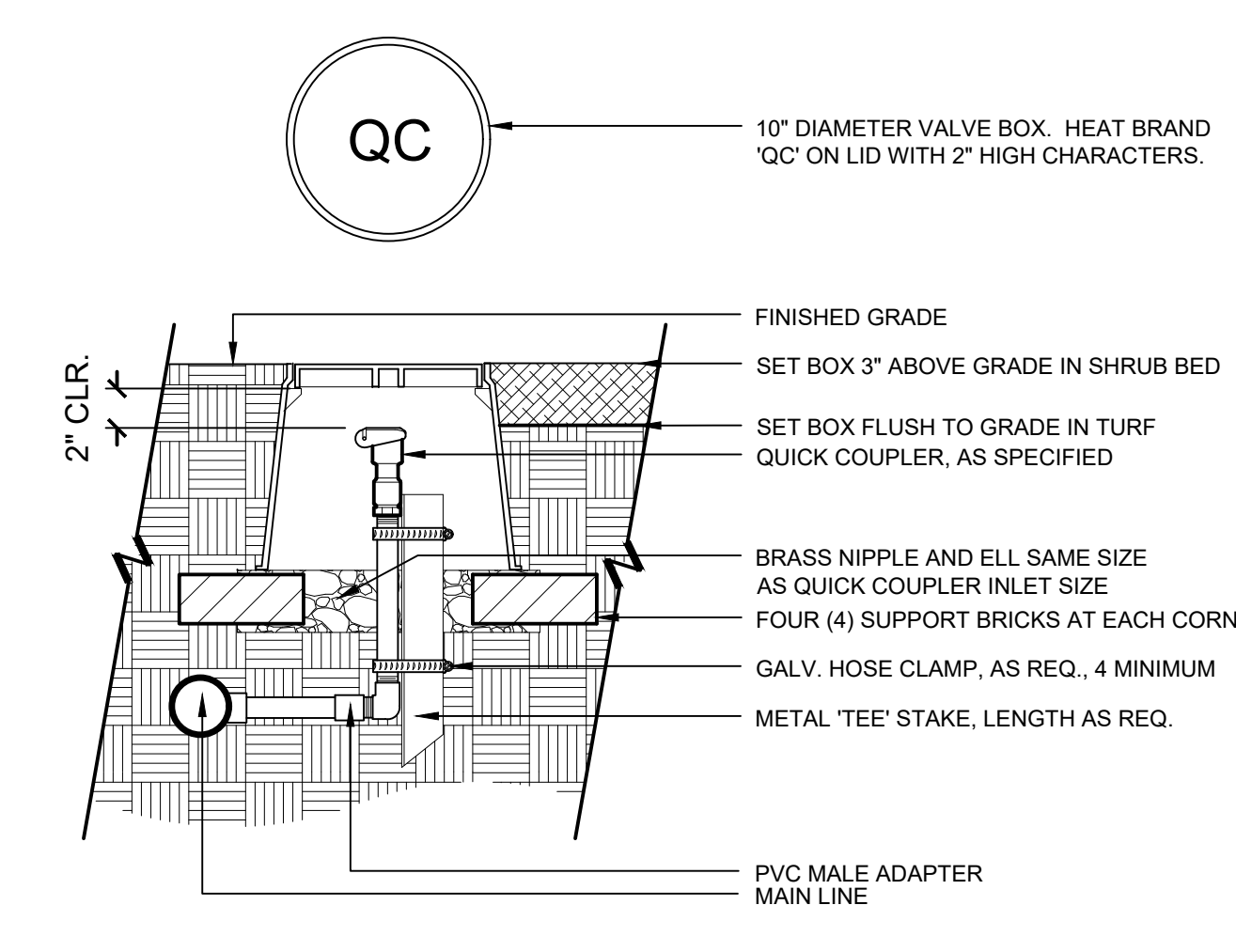
**3** ELECTRIC REMOTE CONTROL VALVE  
1 1/2" = 1'-0" 328406.13-01



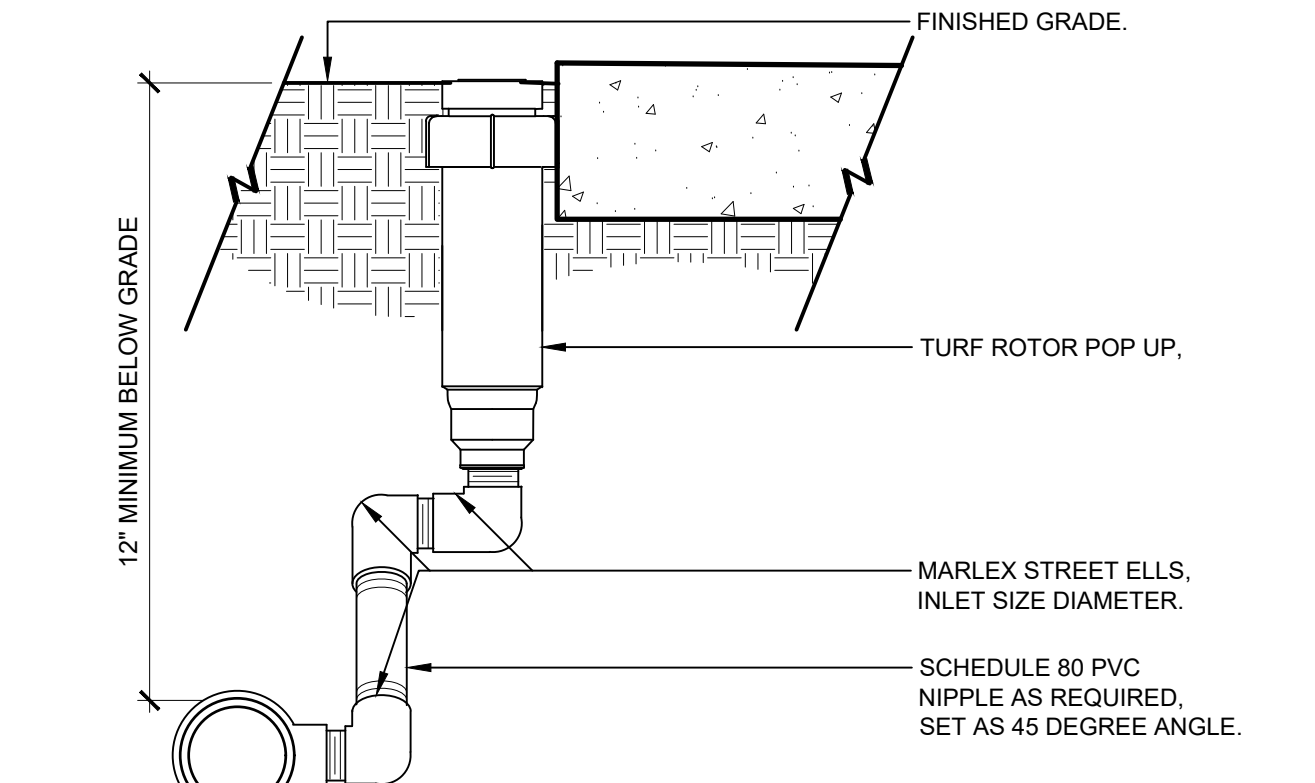
**4** DRIP VALVE W/ BASKET FILTER  
1 1/2" = 1'-0" 328413.76-28



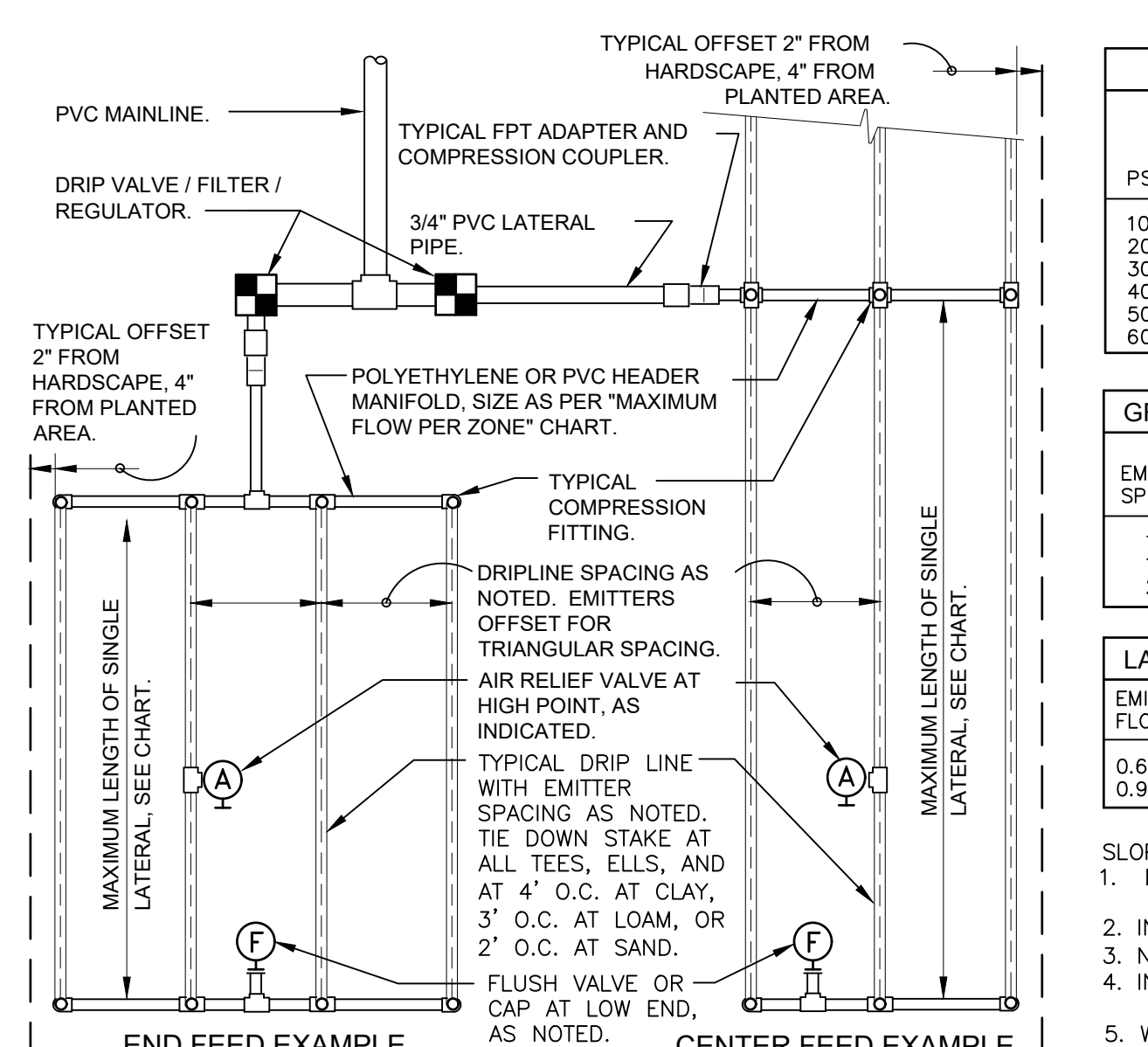
**5** IRRIGATION: SLEEVING  
3/8" = 1'-0" 328409.76-07



**7** QUICK COUPLING VALVE IN BOX  
1" = 1'-0" 328406.43-06



**8** TURF ROTOR MARLEX ASSEMBLY  
3" = 1'-0" P-ED-KES-03



**6** TYPICAL RAIN BIRD DRIPLINE REQUIREMENTS  
N.T.S. 328409.76-07

PSI	MAXIMUM LATERAL LENGTH (FEET)					
	12" SPACING		18" SPACING		24" SPACING	
10	125	96	175	135	218	171
20	249	191	350	171	442	340
30	307	236	434	333	550	422
40	350	268	495	380	627	171
50	125	96	175	135	218	171
60	125	96	175	135	218	171

EMITTER SPACING	GRID PRECIPITATION RATES (IN/HR)	
	LATERAL SPACING	EMITTER FLOW RATE
12	12	0.96
18	18	0.69
24	24	0.28

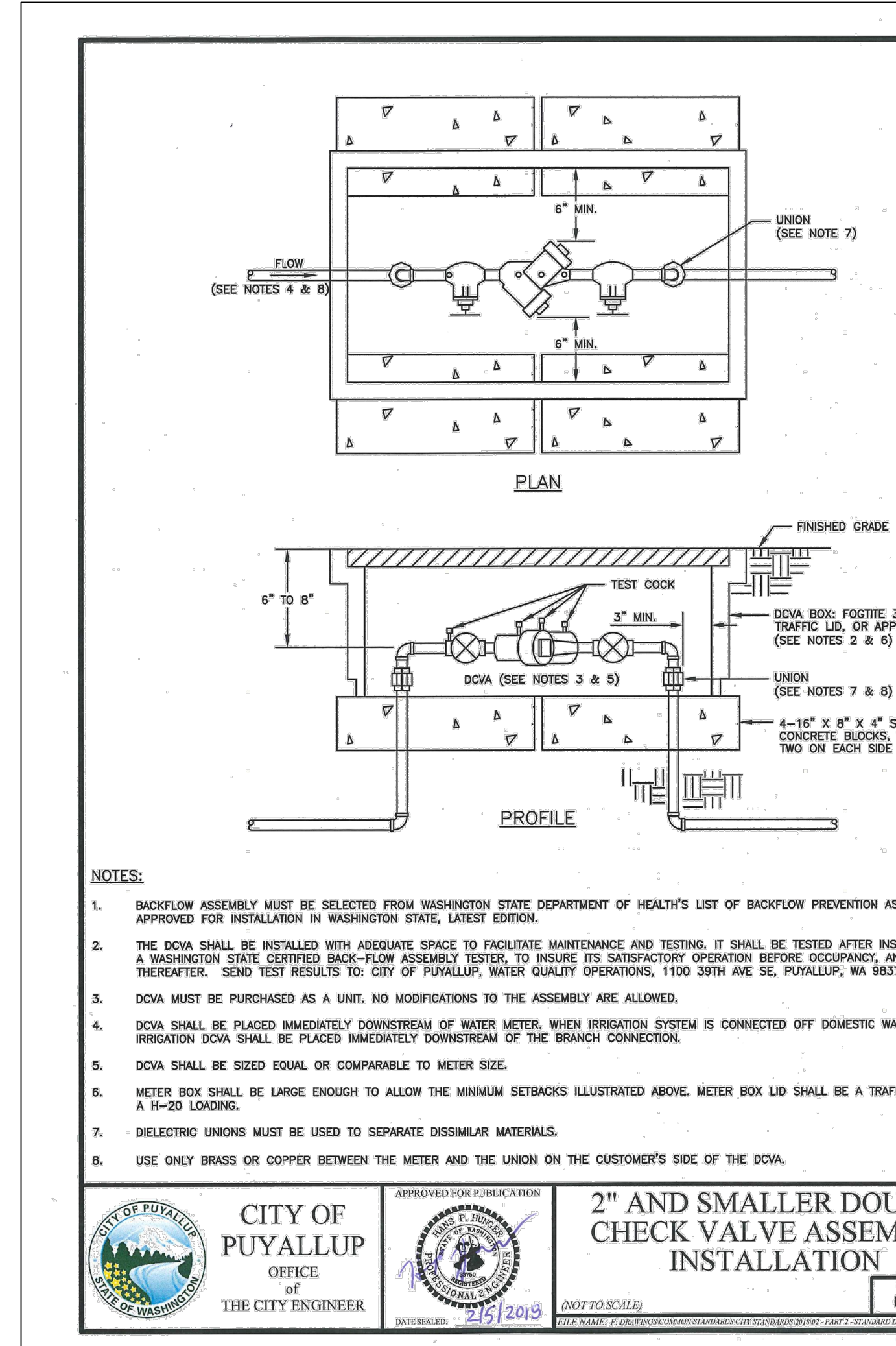
  

EMITTER FLOW	LATERAL FLOW PER 100 FT (GPM)		
	12" SPACING	18" SPACING	24" SPACING
0.6 GPM	1.0 GPM	0.67 GPM	0.50 GPM
0.9 GPM	1.5 GPM	1.0 GPM	0.75 GPM

SCHEDULE 40 PVC HEADER SIZE	MAXIMUM FLOW PER ZONE	
	MAX GPM	PSI LOSS
1/2"	4.7 GPM	7.7 PSI
3/4"	8.3 GPM	5.6 PSI
1"	13.5 GPM	4.2 PSI
1-1/2"	33.9 GPM	2.9 PSI
2"	52.4 GPM	1.9 PSI

**6** TYPICAL RAIN BIRD DRIPLINE REQUIREMENTS  
N.T.S. 328409.76-07



**9** DOUBLE CHECK BACKFLOW ASSEMBLY  
N.T.S. 328409.76-07

