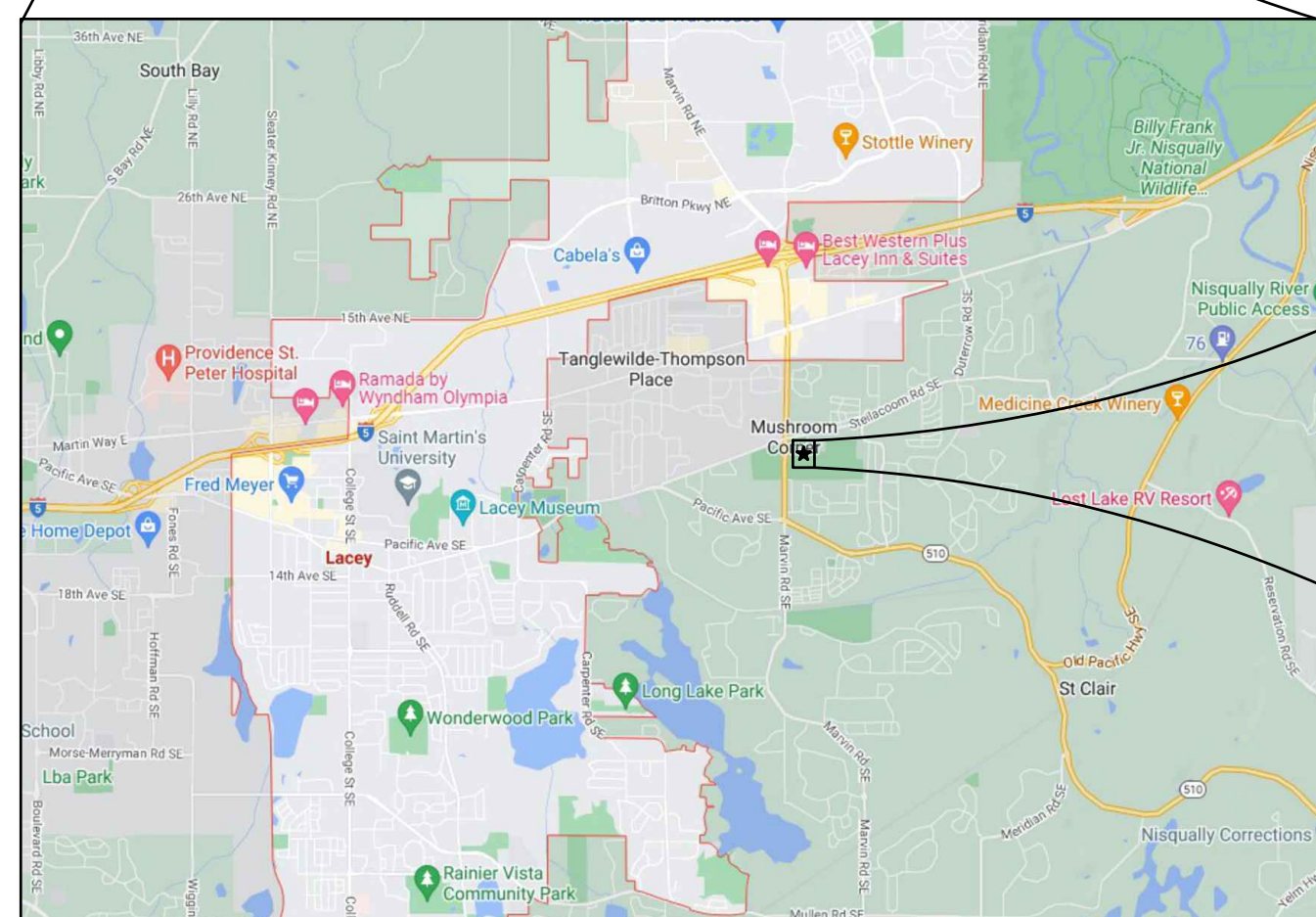
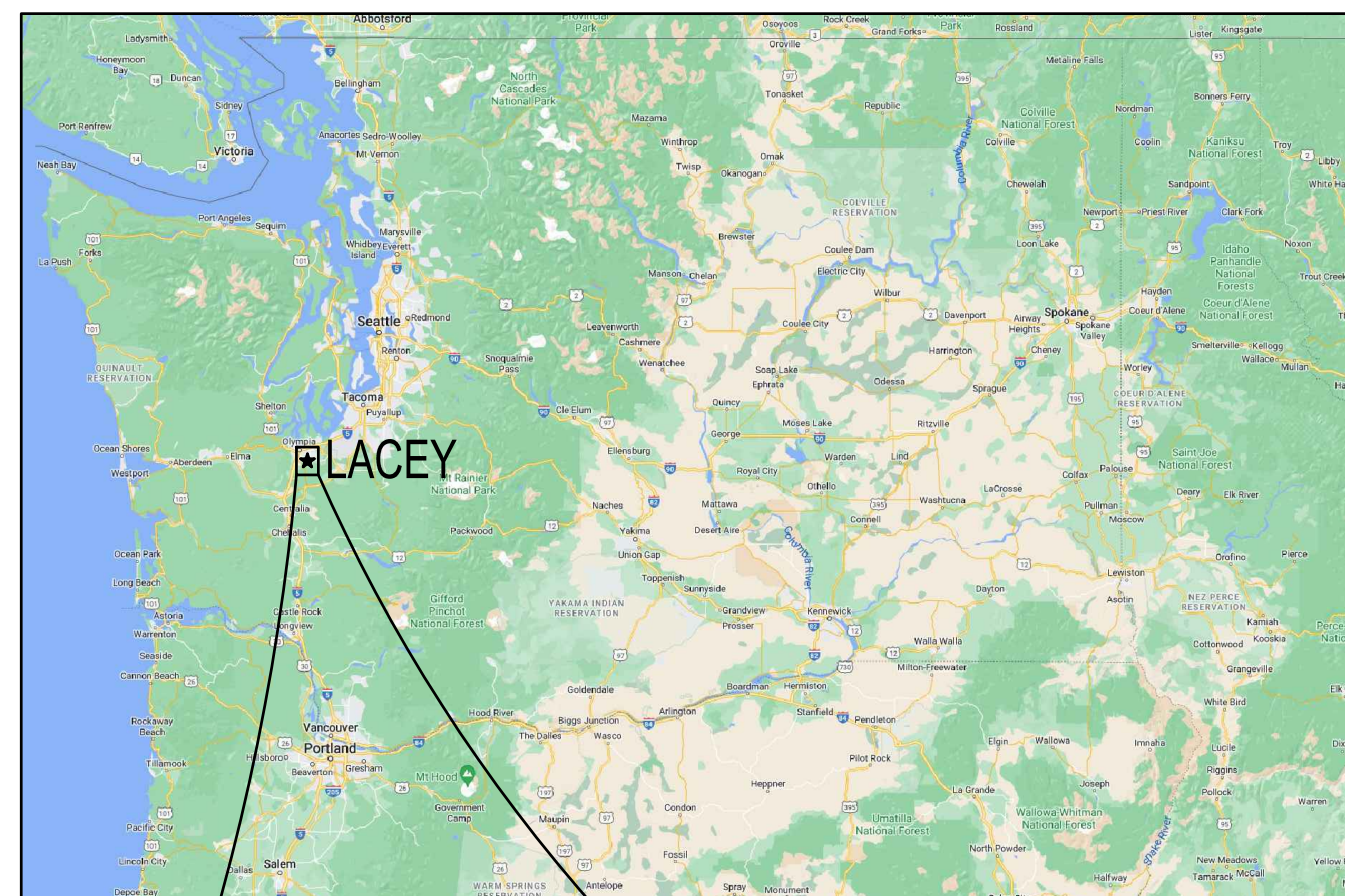


SEC. 14, T 18N., R 1W., W.M.  
**RAC PARKING LOT EXPANSION**  
**90% CONSTRUCTION PLANS**  
 LACEY, WA



**OWNER / APPLICANT**

CITY OF LACEY  
 420 COLLEGE ST SE  
 LACEY, WA 98503  
 PHONE: 360.413.4340  
 CONTACT: ASHLEY SMITH

**CONSULTANTS**

SCJ ALLIANCE  
 8730 TALLON LANE NE, SUITE 200  
 LACEY, WA 98516  
 PHONE: 360.352.1465  
 CONTACT: WHITNEY HOLM, PE

**SITE INFORMATION**

PARCEL NUMBER: 11814410200; 11814410300  
 ACRES: ±6.28

**SITE ADDRESS:**

8345 STEILACOOM RD SE  
 LACEY, WA 98513

**BASIS OF BEARINGS:**

MERIDIAN IS WASHINGTON COORDINATE SYSTEM OF 1983/91  
 - SOUTH ZONE DERIVED FROM TIES TO HPGN STATIONS  
 SANDERSON, MCKENNA AND CBL1110 AND TO WSDOT GPS  
 STATIONS C2599, GP34005-2, GP34005-4, GP34101-32,  
 GP34101-39, HC34-2, LUHR RM2, TS34-33, TS34-59 AND  
 TO THURSTON COUNTY GPS STATIONS U-531, AT-194,  
 AT-352, AT-355, AT-447, AT449 AND AT-478.  
 DISTANCES SHOWN ARE GROUND SCALE U.S. SURVEY  
 FEET. COMBINED SCALE FACTOR (GROUND TO GRID) IS  
 0.999935701. SURVEY AF# 3111152 DATED 09-24-1997.

**DATUM:**

THE CITY OF LACEY BENCHMARKS ARE BASED ON NGVD  
 29 DATUM FROM PRIMARY CONTROL ESTABLISHED BY  
 FEDERAL AND STATE AGENCIES TO FIRST OR SECOND  
 ORDER ACCURACY. THE CITY OF LACEY'S BENCHMARKS  
 ARE GENERALLY TO THIRD ORDER ACCURACY.

**LEGAL DESCRIPTION:**

SECTION 13 / 14 TOWNSHIP 18 RANGE 1W QUARTER NW SW / NE SE  
 BLA13101203 TR A DOCUMENT 4335765

SECTION 13 / 14 TOWNSHIP 18 RANGE 1W QUARTER NW SW / NE SE  
 BLA13101203LA TR B DOCUMENT 4335765

**UTILITIES**

**STORMWATER/SEWER:**  
 CITY OF LACEY  
 UTILITY SERVICES  
 PO BOX 3400  
 420 COLLEGE STREET SE  
 LACEY, WA 98509-3400  
 PH: 360.491.5616

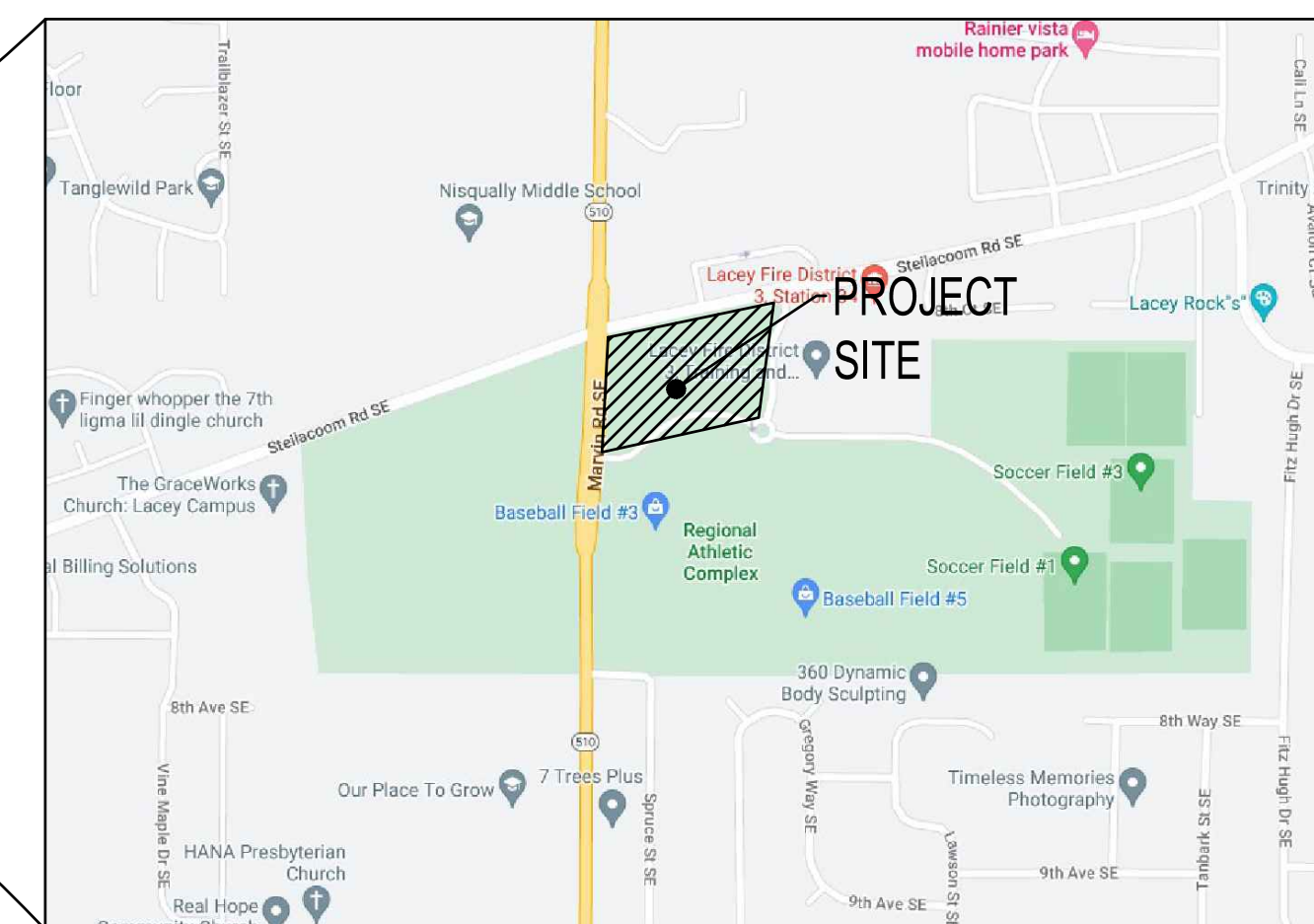
**WATER/SOLID WASTE:**  
 CITY OF LACEY  
 UTILITY SERVICES  
 PO BOX 3400  
 420 COLLEGE STREET SE  
 LACEY, WA 98509-3400  
 PH: 360.491.5616

**ELECTRIC/NATURAL GAS:**  
 PUGET SOUND ENERGY - PSE  
 10885 NE 4TH STREET  
 BELLEVUE, WA 98009  
 PH: 425.452.1234  
 EMERGENCY SERVICE: 888.225.5773  
 CONTACT: DAVE LESINSKI  
 ENGINEERING SPECIALIST, CONSTRUCTION SERVICES  
 PH: 253.476.6425

**CUSTOMER CONSTRUCTION**  
 3130 S 38TH ST  
 TACOMA, WA 98409  
 PH: 888.321.7779

**TELEPHONE:**  
 QWEST COMMUNICATIONS  
 711 CAPITOL WAY S, STE 307  
 OLYMPIA, WA 98501  
 PH: 360.754.5912  
 CONTACT: WAYDE HOLMQUIST  
 SR DESIGN ENGINEER

**CABLE:**  
 COMCAST  
 410 VALLEY AVE NW, STE 307  
 PUYALLUP, WA 98371  
 PH: 253.261.0945  
 FX: 253.864.4215  
 CONTACT: ERIC PARTON  
 COMCAST BUSINESS SERVICES GROUP



NTS

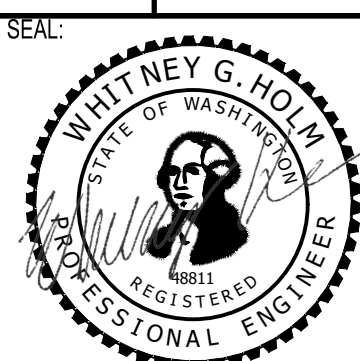
A PORTION OF SEC 14, T 18N., R 1W., W.M.  
 LACEY, WA

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02	GN-01	GENERAL NOTES
03	EX-01	EXISTING CONDITIONS MAP COVER SHEET
04	EX-02	EXISTING CONDITIONS MAP
05	EX-03	EXISTING CONDITIONS MAP
06	EC-01	DEMOLITION AND TESC PLAN
07	EC-02	EROSION CONTROL NOTES & DETAILS
08	SP-01	SITE & PAVING PLAN
09	SP-02	SITE PLAN NOTES & DETAILS
10	SP-03	SITE PLAN DETAILS
11	HC-01	HORIZONTAL CONTROL PLAN
12	CG-01	GRADING PLAN
13	CG-02	ENLARGED GRADING PLAN
14	CG-03	ENLARGED GRADING PLAN
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COVER SHEET  
 PROJECT NAME:  
**RAC PARKING LOT EXPANSION**  
 8345 STEILACOOM RD SE  
 LACEY, WA



DESIGNER:  
 W. HOLM  
 DRAWN BY:  
 K. GANS  
 APPROVED BY:  
 W. HOLM  
 DATE:  
 MARCH 1, 2023  
 JOB NO:  
 22-000313  
 DRAWING FILE NO:  
 22-000313 CV-01  
 DRAWING NO:  
 CV-01  
 SHEET NO:  
 01 OF 44

Mr. 01, 0703, 1:30, 20pm - User: jacob.mitchell  
 WA PROJECTS \0623\0703\01 - LACEY\22-000313 RAC PARKING LOT DESIGN\CADD\22-000313 CV-01.DWG

**CALL BEFORE YOU DIG**  
 THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION  
 AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL  
 VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING  
 THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A  
 MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.



SCJ ALLIANCE  
GENERAL CONSTRUCTION NOTES:

- ALL WORK, WORKMANSHIP AND MATERIALS FOR THIS PROJECT SHALL MEET OR EXCEED THE PROJECT SPECIFICATIONS, CITY OF LACEY ENGINEERING DESIGN AND DEVELOPMENT STANDARDS AND MAY INCLUDE REFERENCES TO THE MOST CURRENT VERSION OF THE \$\$\$-WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION-\$\$\$ IF THERE IS A CONFLICT BETWEEN THE SPECIFICATION TYPES, THE MOST RESTRICTIVE REFERENCE SHALL BE ADHERED TO.
- ALL GOVERNMENTAL SAFETY REGULATIONS SHALL BE STRICTLY ADHERED TO INCLUDING OSHA, WISHA AND THE WASHINGTON DEPARTMENT OF LABOR AND INDUSTRY.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DULY NOTIFY THE CITY IN ADVANCE OF THE COMMENCEMENT OF ANY AUTHORIZED WORK AND TO SCHEDULE REQUIRED INSPECTIONS. ALL REQUIRED INSPECTION TESTS WILL BE PERFORMED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL PROVIDE A TWO-YEAR WARRANTY ON ALL WORKMANSHIP AND MATERIAL FOLLOWING ACCEPTANCE OF THE PROJECT BY THE OWNER.
- THE APPROVAL OF THESE PLANS BY THE CITY OF LACEY DOES NOT RELIEVE THE CONTRACTOR OR DEVELOPER OF THE RESPONSIBILITY TO COMPLY WITH THE REQUIREMENTS OF OTHER GOVERNING AGENCIES.
- CAUTION - NOTICE TO CONTRACTOR**  
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON THE PROJECT SURVEY AND OTHER RECORDS OF UTILITIES. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL CALL 1-800-424-5555 48 HOURS PRIOR TO PLANNED EXCAVATIONS.
- THE DESIGN SHOWN IS BASED UPON THE ENGINEER'S UNDERSTANDING OF THE EXISTING CONDITIONS. THE EXISTING CONDITIONS SHOWN ON THIS PLAN SHEET ARE BASED UPON COMPILED SURVEY DATA. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIELD CONDITIONS PRIOR TO BIDDING THE PROPOSED WORK IMPROVEMENTS. IF CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER OR OWNERS REPRESENTATIVE.
- EXISTING UTILITIES ARE SHOWN FOR REFERENCE ONLY. PRIOR TO CONNECTION TO EXISTING UTILITIES THE CONTRACTOR SHALL VERIFY EXACT LOCATION, DIA, LENGTH, CONDITION, PIPE TYPE, SLOPE AND VERTICAL AND HORIZONTAL ALIGNMENT OF THE EXISTING UTILITY AND PROPOSED POINT OF CONNECTION. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO ENGINEER PRIOR TO CONSTRUCTION.
- PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY LOCAL, STATE, AND FEDERAL APPROVALS AND PERMITS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A COPY OF THE APPROVED PLANS, SPECIFICATIONS, AND CONTRACT DOCUMENTS AT THE CONSTRUCTION SITE AT ALL TIMES.
- THE CONTRACTOR SHALL PROVIDE SLOPE PROTECTION FOR SLOPES OF 5:1 OR GREATER ACCORDING TO ASSOCIATED GENERAL CONTRACTORS (AGC) STANDARD GUIDELINES AND BEST MANAGEMENT PRACTICES (BMP'S).
- THE CONTRACTOR SHALL MAINTAIN EROSION CONTROL FACILITIES IN ACCORDANCE WITH THE CITY OF LACEY, DEPARTMENT OF ECOLOGY STORMWATER MANUAL, THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP), AND PER THE EROSION CONTROL PLAN.
- THE CONTRACTOR SHALL SAFELY MAINTAIN TRAFFIC AND CONTINUOUS ACCESS TO PRIVATE AND/OR PUBLIC PROPERTY.
- CONSTRUCTION SIGNING AND TRAFFIC CONTROL SHALL BE PER THE CURRENT COPY OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- ALL VEHICLES AND EQUIPMENT SHALL BE KEPT WITHIN THE WORK AREAS ESTABLISHED FOR THAT WORK SHIFT UNLESS TRAVELING TO OR FROM THE SITE. UNDER NO CIRCUMSTANCES SHALL VEHICLES OR EQUIPMENT BE PARKED OR STORED OUTSIDE OF THESE AREAS.
- OTHER CONSTRUCTION PROJECTS MAY OCCUR NEAR THE PROJECT SITE AND MAY BE IN PROGRESS CONCURRENT WITH THE PROJECT. THE CONTRACTOR SHALL COOPERATE AS NECESSARY AND NOT INTERFERE OR HINDER THE PROGRESS OR COMPLETION OF WORK BEING PERFORMED BY OTHER CONTRACTORS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHOWN ON THESE DRAWINGS AND TO OBTAIN ACCEPTANCE BY THE CITY OF LACEY AND THE PROJECT OWNER.
- ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL "PRE CONSTRUCTION" STATE OR BETTER.
- DRIVEWAY ACCESS AND UTILITY SERVICE TO EXISTING HOMES AND BUSINESSES SHALL BE MAINTAINED AT ALL TIMES.
- SEE LANDAU DRAFT TECHNICAL MEMORANDUM DATED SEPTEMBER 1, 2022 FOR ADDITIONAL INFORMATION INCLUDING GROUNDWATER

SEC. 14, T 18N., R 1W., W.M.

CITY OF LACEY GENERAL CONSTRUCTION NOTES

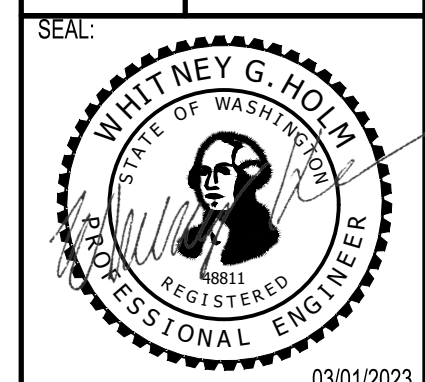
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF LACEY STANDARDS AND THE MOST CURRENT EDITION OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (WSDOT/APWA). IN CASES OF CONFLICT, THE MOST STRINGENT STANDARD SHALL APPLY.
- THE CONTRACTOR SHALL BE IN COMPLIANCE WITH ALL SAFETY STANDARDS AND REQUIREMENTS AS SET FORTH BY OSHA, WISHA AND THE STATE OF WASHINGTON, DEPARTMENT OF LABOR AND INDUSTRIES.
- ALL APPROVALS AND PERMITS REQUIRED BY THE CITY OF LACEY SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- IF CONSTRUCTION IS TO TAKE PLACE IN THE COUNTY RIGHT-OF-WAY, THE CONTRACTOR SHALL NOTIFY THE COUNTY AND OBTAIN ALL THE REQUIRED APPROVALS AND PERMITS.
- A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE CITY OF LACEY CONSTRUCTION INSPECTOR A MINIMUM 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
- THE CITY OF LACEY CONSTRUCTION INSPECTOR SHALL BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE OF A TAP CONNECTION TO AN EXISTING MAIN. THE INSPECTOR SHALL BE PRESENT AT THE TIME OF THE TAP.
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 NOT LESS THAN TWO BUSINESS DAYS AND NOT MORE THAN 10 BUSINESS DAYS PRIOR TO ANY EXCAVATION. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR MAINTAINING ALL LOCATE MARKS ONCE THE UTILITIES HAVE BEEN LOCATED.
- TEMPORARY STREET PATCHING SHALL BE ALLOWED FOR AS APPROVED BY THE CITY ENGINEER. TEMPORARY STREET PATCHING SHALL BE PROVIDED BY PLACEMENT AND COMPACTION OF 1-INCH MAXIMUM ASPHALT CONCRETE COLD MIX. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AS REQUIRED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL IN ACCORDANCE WITH THE WSDOT/APWA STANDARD PLANS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (ALL APPLICABLE "K" PLANS) AND/OR THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). PRIOR TO DISRUPTION OF ANY TRAFFIC, A TRAFFIC CONTROL PLAN SHALL BE PREPARED AND SUBMITTED TO THE CITY FOR APPROVAL. NO WORK SHALL COMMENCE UNTIL ALL APPROVED TRAFFIC CONTROL IS IN PLACE.
- EROSION CONTROL/WATER POLLUTION MEASURES SHALL BE REQUIRED IN ACCORDANCE WITH SECTION 1-07.15 OF THE WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AND THE CITY OF LACEY STORMWATER DESIGN MANUAL. AT NO TIME WILL SILTS AND DEBRIS BE ALLOWED TO DRAIN INTO AN EXISTING OR NEWLY INSTALLED FACILITY UNLESS SPECIAL PROVISIONS HAVE BEEN DESIGNED.
- ALL SURVEYING AND STAKING SHALL BE PERFORMED PER THE CORRESPONDING CHAPTER OF THE CITY OF LACEY DEVELOPMENT GUIDELINES AND PUBLIC WORKS STANDARDS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A COPY OF AN APPROVED SET OF PLANS ON THE CONSTRUCTION SITE AT ALL TIMES.
- ANY CHANGES TO THE DESIGN SHALL FIRST BE REVIEWED AND APPROVED BY THE PROJECT ENGINEER AND THE CITY OF LACEY.
- IF CONSTRUCTION IS TO TAKE PLACE IN OTHER JURISDICTION'S RIGHT-OF-WAY (I.E., THE COUNTY, THE STATE, THE CITY OF OLYMPIA, OR OTHER ADJACENT MUNICIPALITIES), THE CONTRACTOR SHALL NOTIFY THE JURISDICTION AND OBTAIN ALL THE REQUIRED APPROVALS AND PERMITS.
- PRIOR TO BACKFILL ALL MAINS AND APPURTENANCES SHALL BE INSPECTED AND APPROVED BY THE CITY OF LACEY CONSTRUCTION INSPECTOR. APPROVAL SHALL NOT RELIEVE THE CONTRACTOR FOR CORRECTION OF ANY DEFICIENCIES AND/OR FAILURES AS DETERMINED BY SUBSEQUENT TESTING AND INSPECTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY OF LACEY FOR THE REQUIRED INSPECTIONS.
- THE CITY WILL BE GIVEN 72-HOURS' NOTICE PRIOR TO SCHEDULING A SHUTDOWN. WHERE CONNECTIONS REQUIRE "FIELD VERIFICATION", CONNECTION POINTS SHALL BE EXPOSED BY THE CONTRACTOR AND FITTINGS VERIFIED 72 HOURS PRIOR TO DISTRIBUTING SHUT-DOWN NOTICES.

ABBREVIATIONS

&	AND	L	LENGTH
±	ANGLE	LB(S)	POUND(S)
±	APPROXIMATELY	LF	LINEAR FEET
@	AT	LP	LOW POINT ELEVATION
⊕	CENTERLINE	LT	LEFT
'	DEGREE		
=	EQUALS	MAX	MAXIMUM
>	FOOT	MFR	MANUFACTURER
>	GREATER THAN	MH	MANHOLE
"	INCH	MIN	MINIMUM, MINUTE
#	NUMBER	MISC	MISCELLANEOUS
%	PERCENT	MON	MONUMENT IN CASE
AC	ASPHALTIC CONCRETE	N	NORTH, NORTHING
ADD'L	ADDITIONAL	N/A	NOT APPLICABLE
ADJT	ADJACENT	NE	NORTHEAST
AFF	ABOVE FINISH FLOOR	NEMA	NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION
AP	ANGLE POINT	NIC	NOT IN CONTRACT
APPROX	APPROXIMATE	NO, NO	NUMBER
ARCH	ARCHITECT	NTS	NOT TO SCALE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	NW	NORTHWEST
ATB	ASPHALT TREATED BASE COURSE		
AVE	AVENUE	OC, OC	ON CENTER
		OD	OUTSIDE DIAMETER
		OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
BCR	BEGIN CURB RETURN		
BFV	BUTTERFLY VALVE	P	POWER, POWER VAULT
BGS	BELOW GROUND SURFACE	PC	POINT OF CURVATURE
BLK	BLOCK(S)	PCC	POINT OF COMPOUND CURVE
BLDG	BUILDING		OR PORTLAND CEMENT CONCRETE
BM	BENCHMARK	PED	PEDESTAL
BVC	BEGIN VERTICAL CURB	PI	POINT OF INTERSECTION
		R	PROPERTY LINE
C	CONDUIT	POC	POINT OF CONNECTION
CB	CATCH BASIN	PP	POWER POLE
CF	CUBIC FEET	PRC	POINT OF REVERSE CURVATURE
CIRC	CIRCUIT, CIRCULE(R, TION)	PROP	PROPERTY
CIP	CAST-IN-PLACE	PSI	POUNDS PER SQUARE INCH
CIP MON	CAST-IN-PLACE MONUMENT	PT	POINT OF TANGENCY
CJ	CENTER JOINT	PVC	POINT OF VERTICAL CURVE
⊕	CENTER LINE	PVI	POINT OF VERTICAL INTERSECTION
CL	CROWNLINE	PVT	POINT OF VERTICAL TANGENT
CLR	CLEAR	PWMT	PAVEMENT
CO	CLEANOUT	PWR	POWER
COMM	COMMUNICATION		
COMPT	COMPACTED	QTY	QUANTITY
CONC	CONCRETE		
CONST	CONSTRUCT	R	RADIUS
CONT	CONTINUE(E, ED, OUS, ATION)	RD	ROAD, ROADWAY
COORD	COORDINATE	REF	REFERENCE
CSBC	CRUSHED SURFACING BASE COURSE	REINF	REINFORC(E, ED, ING, MENT)
CSTC	CRUSHED SURFACING TOP COURSE	REQ'D	REQUIRED
CULV	CULVERT	REV	REVISION
CU YD	CUBIC YARD	RIM	STRUCTURE RIM ELEVATION
		RT	RIGHT TURN
		R/W, ROW	RIGHT OF WAY
D/W	DRIVEWAY	S	SOUTH OR SLOPE
DEF	DEFLECTION	SCHED	SCHEDULE
DEG	DEGREE	SD, SDMH	STORM DRAIN, STORM DRAIN MANHOLE
DEMO	DEMOLISH/DEMOLITION	SE	SOUTHEAST
DIA	DIAMETER	SECT	SECTION(S)
DIM	DIMENSION(S)	SHT	SHEET
DIP	DUCTILE IRON PIPE	SP	SPRINKLER
DR	DRIVE	SQ	SQUARE
DWG(S)	DRAWING(S)	SQ FT	SQUARE FEET
		SQ IN	SQUARE INCH
E	EAST OR ELECTRICAL	SS	SANITARY SEWER
EA	EACH	SSMH	SANITARY SEWER MANHOLE
ECR	END CURB RETURN	ST	STREET
EHH	ELECTRICAL HANDHOLE	STA	STATION
EL, ELEV	ELEVATION	STD	STANDARD
ELEC	ELECTRIC(AL)	STRUCT	STRUCTURE(E, AL)
ENGR	ENGINEER	SW	SOUTHWEST
EOP	EDGE OF PAVEMENT	SYS	SYSTEM
EQ	EQUAL(LY)		
EQUIP	EQUIPMENT	T	TELEPHONE OR TELEPHONE VAULT
ESMT	EASEMENT	TBD	TO BE DETERMINED
EVC	END VERTICAL CURVE	TBM	TEMPORARY BENCH MARK
EX, EXIST	EXISTING EXP EXPANSION	TC	TOP OF CURB ELEVATION
EXP	EXPANSION	TELE	TELEPHONE
		TEMP	TEMPORARY
FDC	FIRE DEPARTMENT CONNECTION	TOW	TOP OF WALL ELEVATION
FDN	FOUNDATION	TP, T/P	TOP OF PIPE
FF	FINISH FLOOR	TYP	TYPICAL
FG	FINISH GRADE ELEVATION		
FH	FIRE HYDRANT	UDG	UNDERGROUND
FIN	FINISH(ED)	VAP	VERTICAL ANGLE POINT
FL	FIRE LINE/FLANGE	VC	VERTICAL CURVE
FT	FOOT/FEET	VERT	VERTICAL
		VOL	VOLUME
G	GAS		
GALV	GALVANIZED	W	WEST, WIDTH, WIDE OR WATER
GRND	GROUND	W/	WITH
GV	GATE VALVE	W/O	WITHOUT
		WM	WATER MAIN OR WILLAMETTE MERIDIAN
		WV	WATER VALVE
		XFMR	TRANSFORMER
HH	HANDHOLE		
HORIZ	HORIZONTAL		
HT	HEIGHT		
IE	INVERT ELEVATION		
IN	INCH		
JB, J-BOX	JUNCTION BOX		
JT	JOINT TRENCH		
KV	KILOVOLTS		
KW	KILOWATT		
KWH	KILOWATT HOURS		

**SCJ ALLIANCE**  
CONSULTING SERVICES  
8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516  
P: 360.352.1465 F: 360.352.1509  
SCJALLIANCE.COM

GENERAL NOTES  
PROJECT NAME:  
RAC PARKING LOT EXPANSION  
8345 STEILACOOM RD SE  
LACEY, WA



DESIGNER: W. HOLM  
DRAWN BY: K. GANS  
APPROVED BY: W. HOLM  
DATE: MARCH 1, 2023  
JOB NO: 22-000313  
DRAWING FILE NO: 22-000313 GN-01  
DRAWING NO: GN-01  
SHEET NO: 02 OF 44

Mr. 01\_0723 1:30:27pm - User: jacob.machuga  
\\V:\PROJECTS\2022\0117 OF LACEY\22-000313 RAC PARKING LOT DESIGN\CADD\22-000313 GN-01.DWG

**CALL BEFORE YOU DIG**  
THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.



# TOPOGRAPHIC SURVEY OF REGIONAL ATHLETIC COMPLEX

EAST 1/2, SEC. 14, T18N, R1W, W.M.

**BASIS OF BEARING**  
MERIDIAN IS WASHINGTON COORDINATE SYSTEM OF 1983/91 - SOUTH ZONE DERIVED FROM TIES TO HPGN STATIONS SANDERSON, MCKENNA AND CBL1110 AND TO WSDOT GPS STATIONS G259H, GP34005-2, GP34005-4, GP34101-32, GP34101-39, HC34-2, LUHR RM2, TS34-33, TS34-59 AND TO THURSTON COUNTY GPS STATIONS U-531, AT-194, AT-352, AT-355, AT-447, AT449 AND AT-478.  
DISTANCES SHOWN ARE GROUND SCALE U.S. SURVEY FEET. COMBINED SCALE FACTOR (GROUND TO GRID) IS 0.999935701. SURVEY AF# 3111152 DATED 09-24-1997.

**METHOD OF SURVEY**  
SURVEY PERFORMED BY CONVENTIONAL FIELD TRAVERSE USING A LEICA TS-16 (THREE SECOND TOTAL STATION), LINEAR AND ANGULAR CLOSURE OF THE TRAVERSE MEET THE STANDARDS OF WAC 332-130-090.

**BOUNDARY**  
THE BOUNDARY WAS COMPILED USING PHYSICAL FEATURES TIED IN THE FIELD AND DOCUMENTS OF RECORD AS SHOWN BELOW.

**BLA REFERENCED**  
AFN-4335756

**VERTICAL**  
THE CITY OF LACEY BENCHMARKS ARE BASED ON NGVD 29 DATUM FROM PRIMARY CONTROL ESTABLISHED BY FEDERAL AND STATE AGENCIES TO FIRST OR SECOND ORDER ACCURACY. THE CITY OF LACEY'S BENCHMARKS ARE GENERALLY TO THIRD ORDER ACCURACY.

**BENCHMARK**  
CITY OF LACEY BM#993  
2" SURFACE MONUMENT AT THE C/L OF VINE MAPLE DR SE, 80' +/- SOUTH OF STELLACOOM RD SE  
ELEV.=218.711'

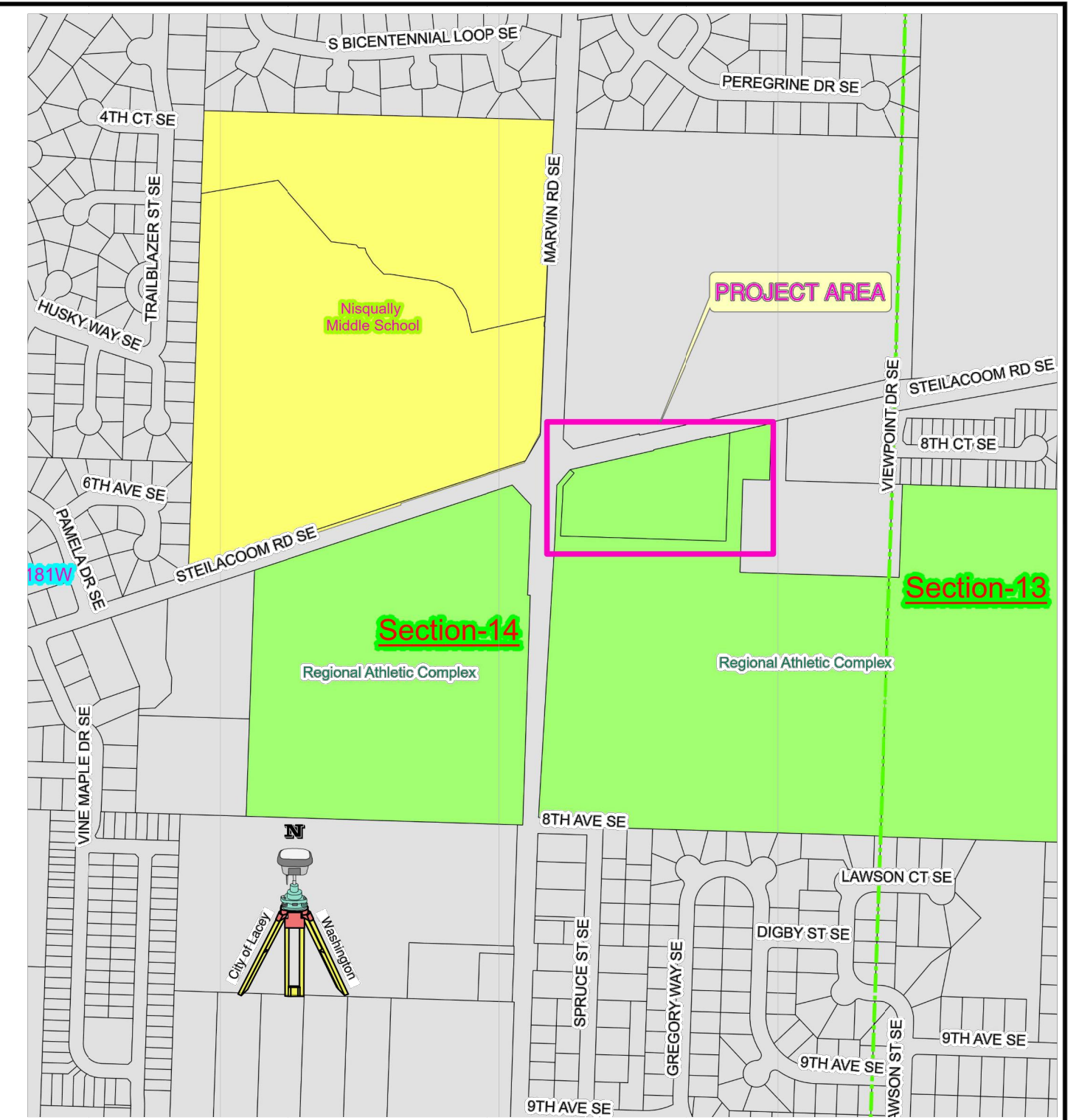
**SOURCE OF CONTOURS**  
COMPILE FIELD MEASUREMENTS USING AUTOCAD CIVIL 3D-2020

**SOURCE OF UTILITY MARKINGS**  
SURFACE MARKINGS PROVIDED BY UTILITY NOTIFICATION CENTER (callbeforeyoudig.org) TICKET # 21189894  
\*COMMUNICATION UTILITY WAS NOT PROPERLY MARKED IN FIELD\*

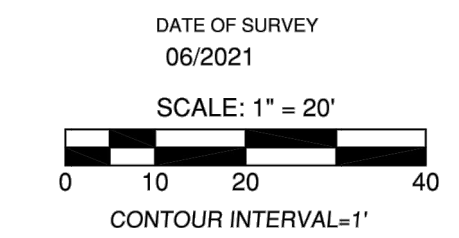
**FIELD SURVEYOR & FIELD BOOK**  
MIKE BREDESON & 256

	BARB WIRE FENCE
	CHAIN LINK FENCE
	CONCRETE FENCE
	ROCK FENCE
	WIRE FENCE
	WOOD FENCE
	GRAVEL
	TOE OF SLOPE
	TOP OF SLOPE
	DITCH
	STORM (PAINTED)
	SEWER (PAINTED)
	RIGHT OF WAY
	OVERHEAD CABLE
	UNDERGROUND CABLE (PAINTED)
	GAS (PAINTED)
	OVERHEAD PHONE
	OVERHEAD FIBER OPTIC
	UNDER GROUND PHONE (PAINTED)
	UNDERGROUND FIBER OPTIC (PAINTED)
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC (PAINTED)
	WATER (PAINTED)
	RECLAIMED WATER (PAINTED)

	CONCRETE
	BUILDING
	GRAVEL
	ASPHALT



**VICINITY MAP**  
(NTS)



**PURPOSE OF TOPOGRAPHIC SURVEY:**  
TO PROVIDE CITY OF LACEY ENGINEERS TOPOGRAPHIC INFORMATION FOR A PROPOSED PARKING LOT.

**NOTE:**  
The Topographic Survey depicts the physical features that were visible at the time of the survey. The City of Lacey is not responsible for the location of underground utilities that are marked or not marked in the field by other utility providers. All feature locations should be independently verified prior to design or construction.

**SURVEY SYMBOL LEGEND**

	Axle		Bike Symbol		Sewer Meter		Reduce Pressure Backflow Assem.		Gate		PVC Pipe		Alder Tree				
	Brass Disk		Handicap		Sewer Pump		Water Service		Guy Pole		Rock		Birch Tree		Cedar Tree		
	Boatspike		Left turn		Sewer Valve		Water Service-Reclaimed		Headstone		Service Disconnect		Cherry Tree		Conifer Tree		Cottonwood Tree
	Cased Monument		Only Text		Blowoff		Water Tank		Junction Box type 1		Service Pole		Deciduous Tree		Fir Tree		Fruit Tree
	Concrete Monument		Parallel Park End		Blowoff-Reclaimed		Water Valve		Junction Box type 2		Sign		Hemlock tree		Holly Tree		Madrona Tree
	Hub & Tack		Parallel Park Tic		Hydrant		Water Valve-Reclaimed		Junction Box type 3		Sign (Large)		Maple Tree		Oak Tree		Pine Tree
	Iron Pipe		Railroad Crossing		Hydrant-Reclaimed		Water Vault		Light Pole		Signal Control Cabinet		Spruce Tree		Poplar Tree		Willow Tree
	Magnail w/ flasher		Right turn		Irrigation Valve		Water Vault-Reclaimed		Light Standard		Signal Pole		Stump				
	Magnail		Straight Thru		Irrigation Valve-Reclaimed		Well		Luminaire		Street Light						
	PKnail w/flasher		Straight Thru and Left Turn		Post Indicator Valve		Anchor		Mailbox		Telephone Booth						
	PKnail		Straight thru and Right Turn		Sampling Station		Basketball Hoop		Pedestrian Head		Telephone Manhole						
	Rebar no/cap		Catch Basin		Sampling Station-Reclaimed		BBQ		Pile		Telephone Pedestal						
	1/2" or #4 Rebar w/cap		Catch Basin w/EJW inlet		Sprinkler head		Dumpster		Pinic Table		Telephone Vault						
	5/8" or #5 Rebar w/cap		Culvert		Sprinkler head-Reclaimed		Filler Cap		Pole		Trash Can						
	Railroad Spike		Storm C/O		Water Air Release		Flag Pole		Post		TV Pedestal						
	Scribe		Storm Manhole		Water Manhole		Gas Manhole		Power Meter		Utility Pole						
	Traverse Point		Storm Strip Drain		Water Manhole-Reclaimed		Gas Meter		Power Pole w/drop		Yard Light						
	Non Standard Curb Return		Lift Station		Water Meter		Gas pump		Power Pole w/Luminaire		Water Air Release-Reclaimed						
	Truncated Domes		Sewer C/O		Water Meter-Reclaimed		Gas Vavle		Tree Grate		Tree Grate						
			Sewer Manhole		Water Pump												

**CITY OF LACEY, WASHINGTON**  
DEPARTMENT OF PUBLIC WORKS  
420 COLLEGE STREET S.E.  
LACEY, WA 98503 (360) 491-5600



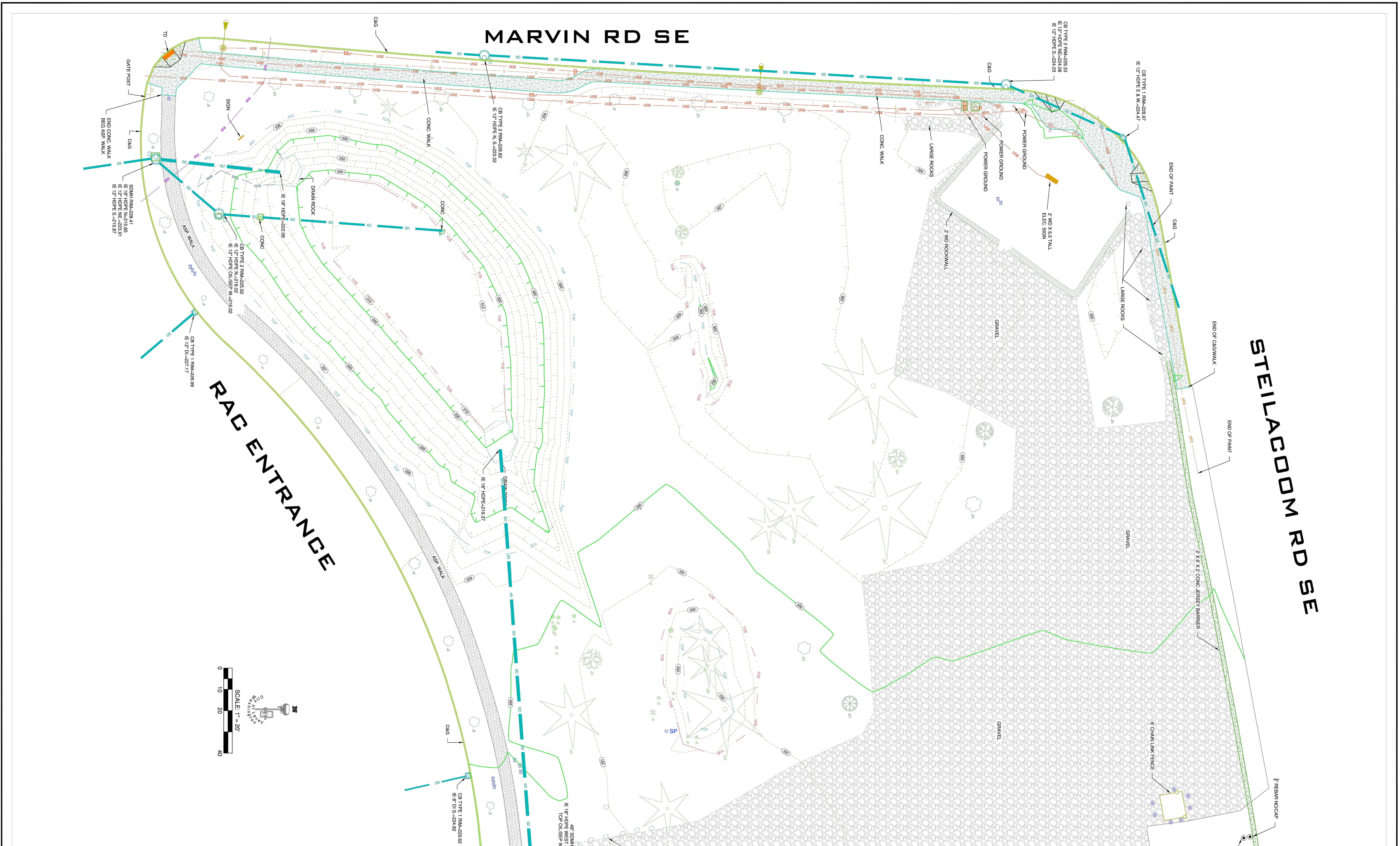
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TOPOGRAPHIC SURVEY

REVISION BLOCK			DWG. NO.
NO.	DATE	DESCRIPTION	
			2 of 27





**CITY OF LACEY, WASHINGTON**  
 DEPARTMENT OF PUBLIC WORKS  
 420 COLLEGE STREET S.E.  
 LACEY, WA 98503 (360) 491-5600



DATE: 06-07-2021  
 DRAFTED: MKB  
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**TOPOGRAPHIC SURVEY**

REVISION BLOCK		
NO.	DATE	DESCRIPTION

DWG. NO.  
 3 of 27





CITY OF LACEY, WASHINGTON  
 DEPARTMENT OF PUBLIC WORKS  
 420 COLLEGE STREET S.E.  
 LACEY, WA 98503 (360) 491-5600



DATE: 06-07-2021  
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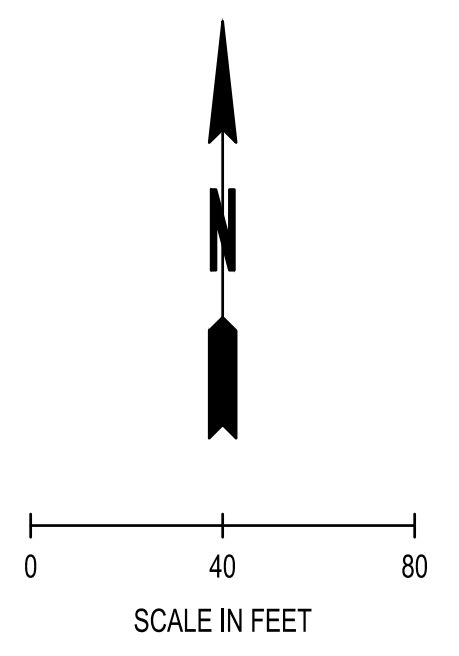
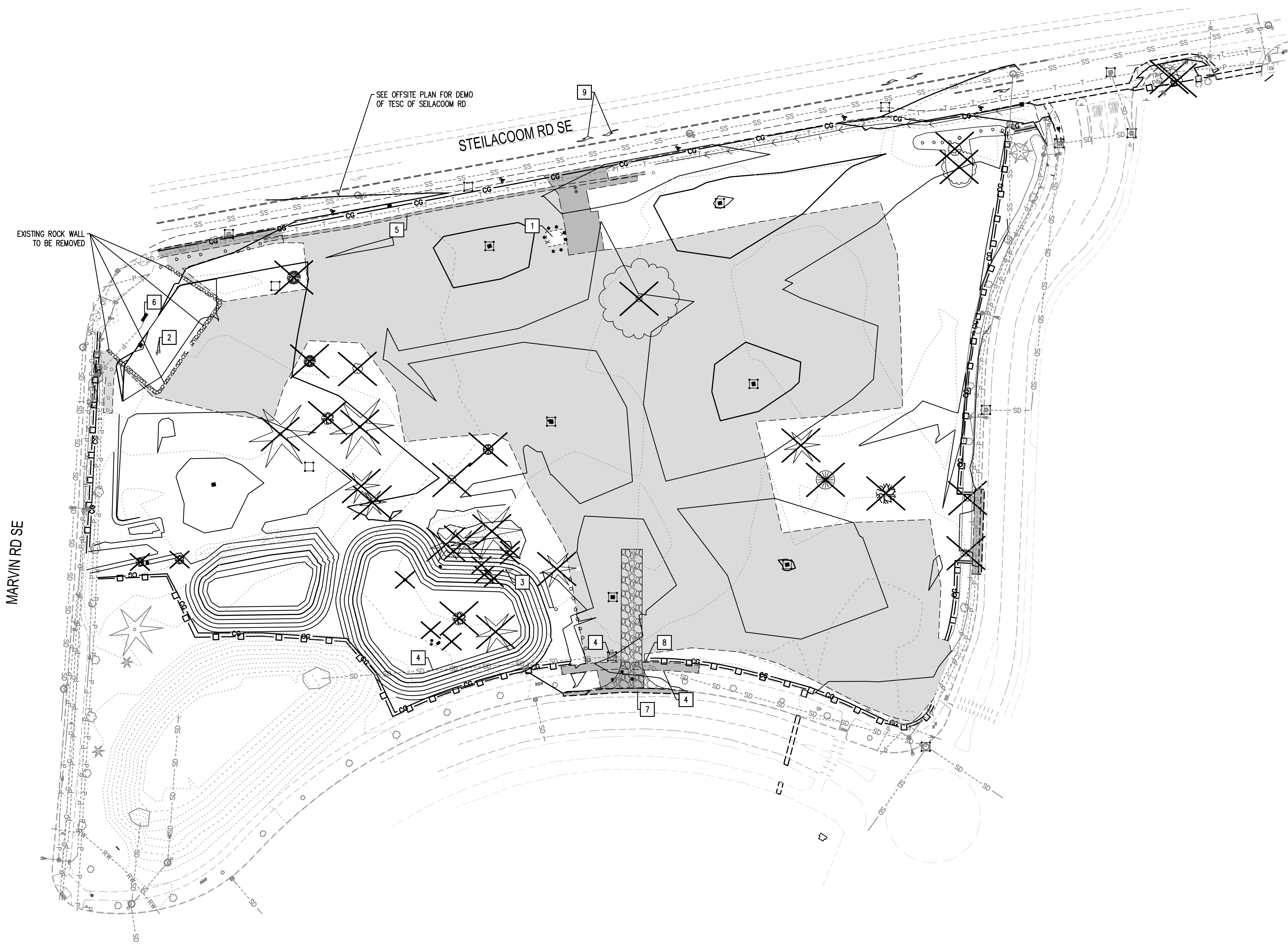
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NO.	DATE	DESCRIPTION

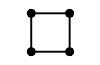
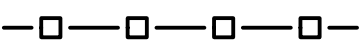

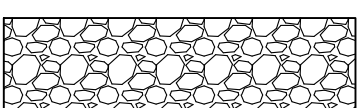
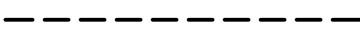
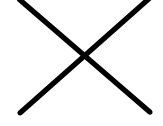


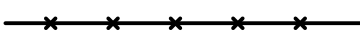
DWG. No.  
 4 of 27



SEC. 14, T 18N., R 1W., W.M.



LEGEND

-  INLET SEDIMENT PROTECTION: SEE EC-02
-  SILT FENCE: SEE EC-02
-  CLEARING AND GRUBBING LIMITS
-  STABILIZED CONSTRUCTION ENTRANCE: SEE EC-02
-  SAWCUT
-  EXISTING TREE AND ROOT BALL TO BE REMOVED AND BACK FILLED
-  EXISTING GRAVEL TO BE REMOVED
-  EXISTING ASPHALT/CONCRETE TO BE REMOVED
-  TREE PROTECTION FENCING SEE EC-02

DEMOLITION NOTES:

1. PSE GAS AND ELECTRICAL EQUIPMENT AND ASSOCIATED FENCE AND BOLLARDS SHALL BE REMOVED: CONTRACTOR SHALL COORDINATE WITH PSE
2. IRRIGATION VALVES TO BE REMOVED AND RELOCATED: SEE LANDSCAPE PLANS
3. SPRINKLER HEAD TO BE REMOVED AND RELOCATED: SEE LANDSCAPE PLANS
4. PROTECT-IN-PLACE EXISTING STORM LINE AND STRUCTURES
5. REMOVE EXISTING ECOLOGY BLOCKS AND RETURN TO CITY OF LACEY. CONTRACTOR SHALL COORDINATE WITH CITY OF LACEY ON DELIVERY LOCATION
6. PROTECT-IN-PLACE DIGITAL MESSAGE BOARD AND ASSOCIATED WIRING
7. SAWCUT
8. SIGN REMOVAL
9. LEFT TURN POCKET ARROWS PER CITY OF LACEY DWG NO. 4-28.21. SEE SHEET FR-04

EXISTING ROCK WALL TO BE REMOVED

SEE OFFSITE PLAN FOR DEMO OF TESC OF STEILACOOM RD

STEILACOOM RD SE

MARVIN RD SE

No. 01, 0703, 1:32, 20/21 - User: jacob.machuga  
 PROJECT: 0029 CITY OF LACEY T22-000313 RAC PARKING LOT DESIGN (CADD) 22-000313 EC-01.DWG

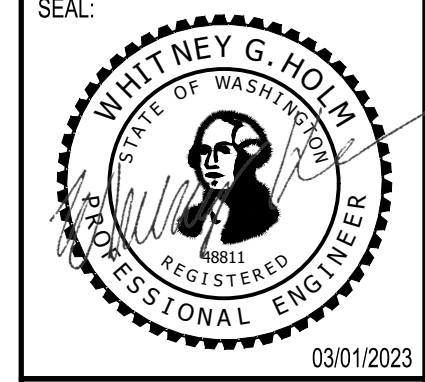
CALL BEFORE YOU DIG

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

REVISIONS	DATE	BY

**SCJ ALLIANCE**  
 CONSULTING SERVICES  
 8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516  
 P: 360.352.1465 F: 360.352.1509  
 SCJALLIANCE.COM

SHEET TITLE: **DEMOLITION AND TESC PLAN**  
 PROJECT NAME: **RAC PARKING LOT EXPANSION**  
 8345 STEILACOOM RD SE  
 LACEY, WA



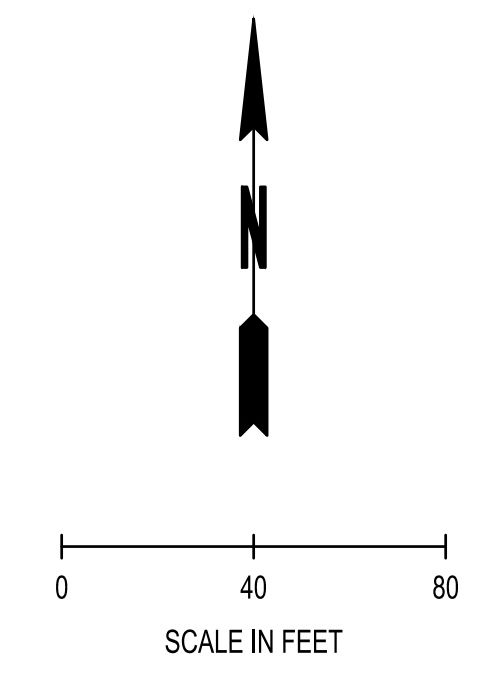
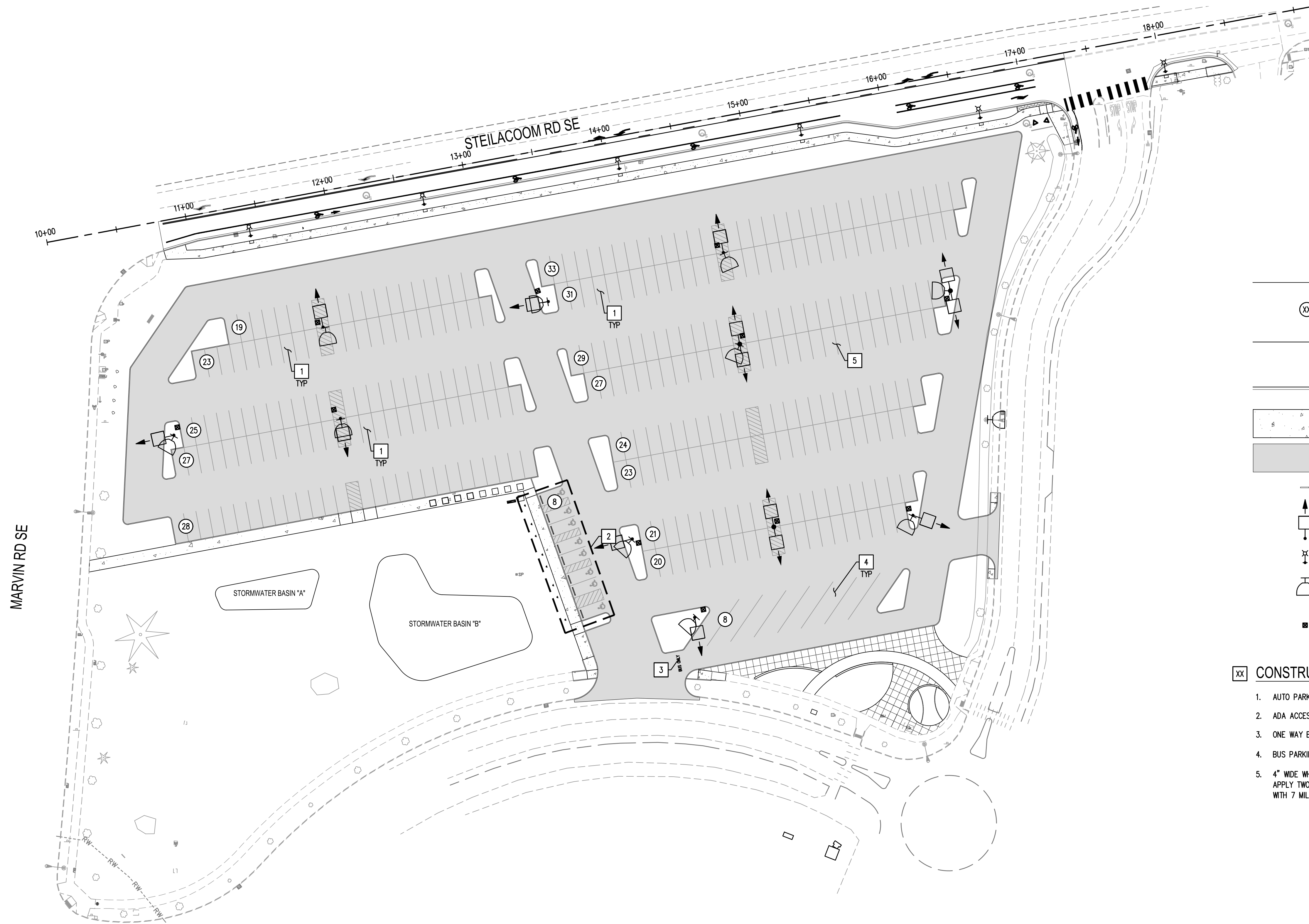
DESIGNER: W. HOLM
DRAWN BY: K. GANS
APPROVED BY: W. HOLM
DATE: MARCH 1, 2023
JOB NO: 22-000313
DRAWING FILE NO: 22-000313 EC-01
DRAWING NO: EC-01
SHEET NO: 06 OF 44







SEC. 14, T 18N., R 1W., W.M.



LEGEND

- (XX) STALL COUNT
- CEMENT CONCRETE TRAFFIC CURB  
PER WSDOT STD. PLAN F.10.12.04  
SEE SP-03
- CEMENT CONCRETE CURB AND GUTTER  
PER CITY OF LACEY STD. DWG. 4-14  
SEE SP-03
- Concrete Sidewalk (stippled pattern) CONCRETE SIDEWALK PER CITY OF LACEY STD.  
DWG. 4-9: SEE SP-03
- Light Duty Asphalt Paving (hatched pattern) LIGHT DUTY ASPHALT PAVING: SEE SP-02
- Precast Concrete Wheelstop: SEE SP-02
- ↑ Parking Lot Light Pole Fixture (arrow) PARKING LOT LIGHT POLE FIXTURE (ARROW  
INDICATES DIRECTION OF AIMING FOR OPTICS)  
SEE BCE ELECTRICAL PLAN DATED 2-21-2023
- ⊕ Street Light Fixture
- ⊕ Fixed Pole Mounted Camera (square) FIXED POLE MOUNTED CAMERA -- MOUNT AT  
+30' AFG. SEE BCE ELECTRICAL PLAN DATED  
2-21-2023
- Site Handhole

CONSTRUCTION NOTES:

1. AUTO PARKING STALL: 9'x20' (TYP): SEE SP-03
2. ADA ACCESSIBLE PARKING STALLS: SEE SP-02
3. ONE WAY BUS ONLY DRIVE AISLE
4. BUS PARKING STALL: 12'x40' (TYP)
5. 4" WIDE WHITE PAINT LINES  
APPLY TWO (2) COATS OF TRAFFIC WHITE PAINT  
WITH 7 MIL DFT PER COAT (TYP)

MARVIN RD SE

STORMWATER BASIN "A"

STORMWATER BASIN "B"

STEILACOOM RD SE

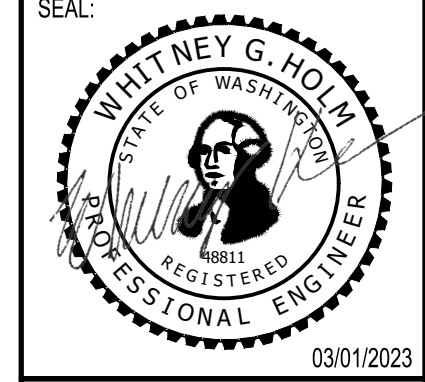
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**CALL BEFORE YOU DIG**  
 THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION  
 AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL  
 VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING  
 THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A  
 MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

REVISIONS	DATE	BY

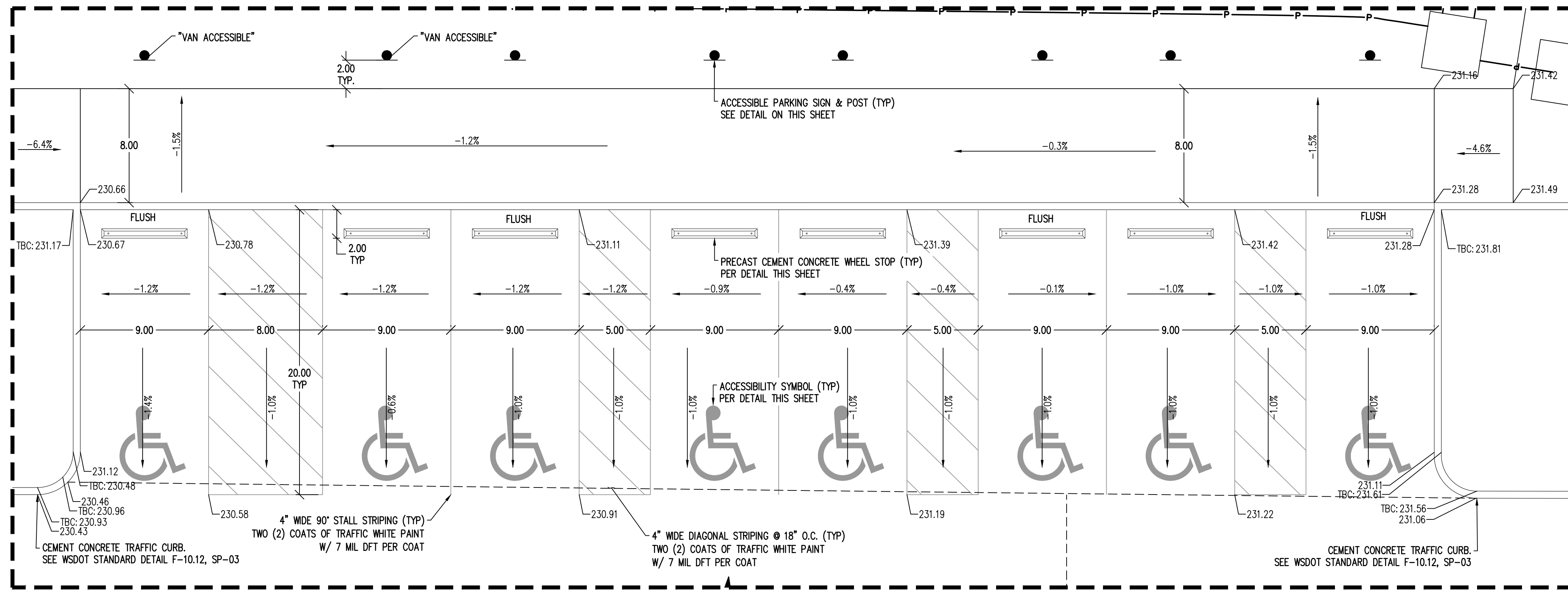
**SCJ ALLIANCE**  
 CONSULTING SERVICES  
 8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516  
 P: 360.352.1465 F: 360.352.1509  
 SCJALLIANCE.COM

SHEET TITLE: **SITE & PAVING PLAN**  
 PROJECT NAME: **RAC PARKING LOT EXPANSION**  
 8345 STEILACOOM RD SE  
 LACEY, WA

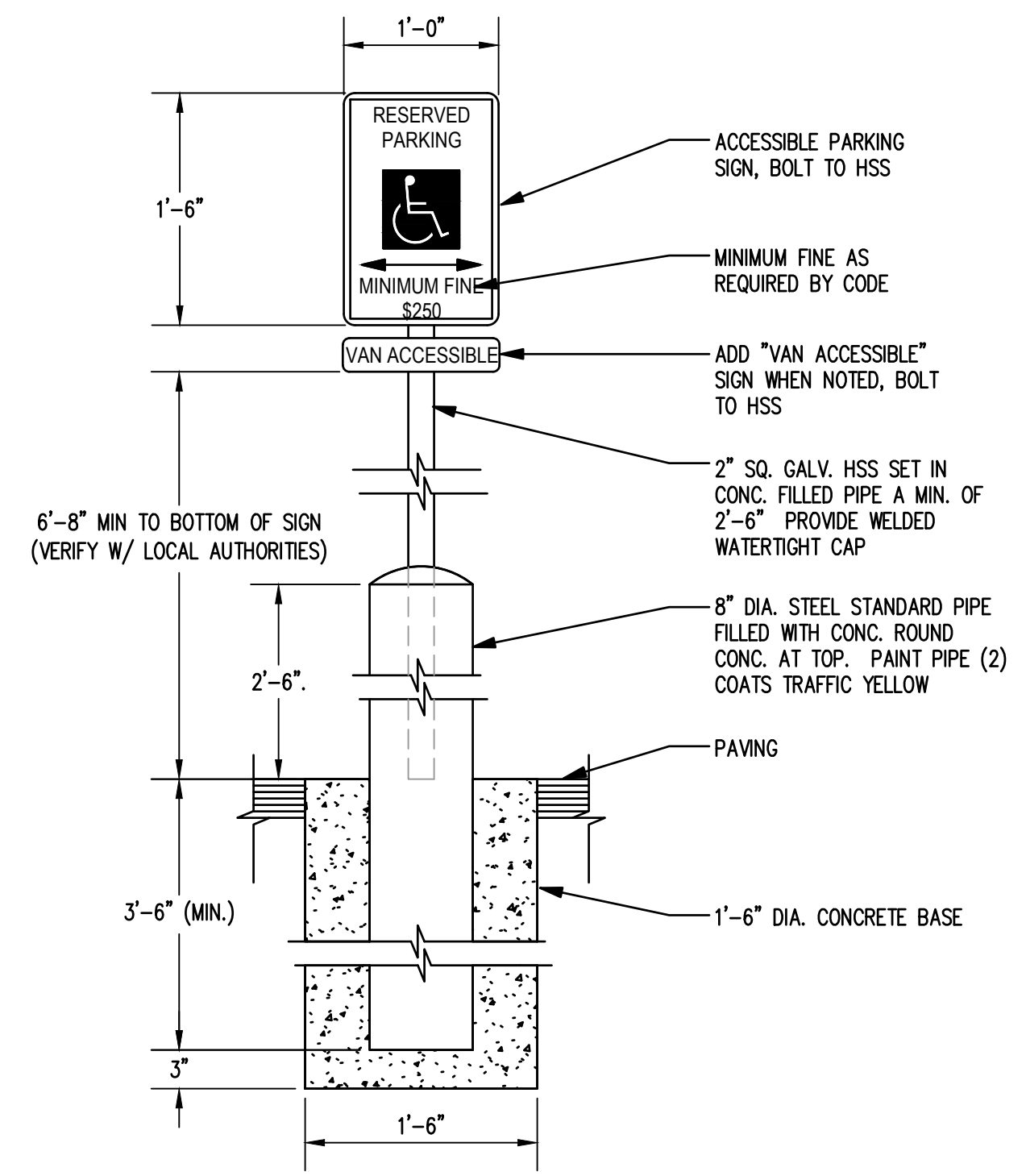


DESIGNER:	W. HOLM
DRAWN BY:	K. GANS
APPROVED BY:	W. HOLM
DATE:	MARCH 1, 2023
JOB NO:	22-000313
DRAWING FILE NO:	22-000313 SP-01
DRAWING NO:	SP-01
SHEET NO:	08 OF 44

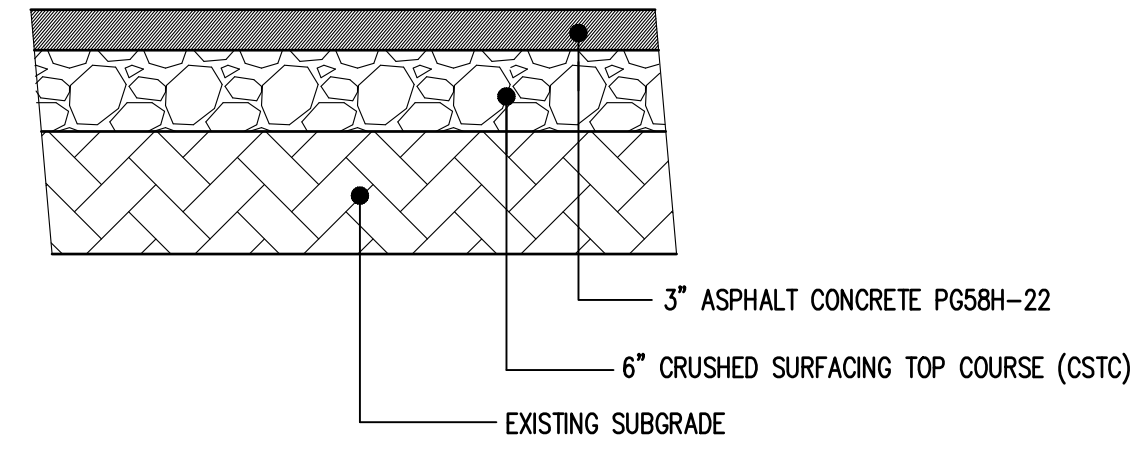




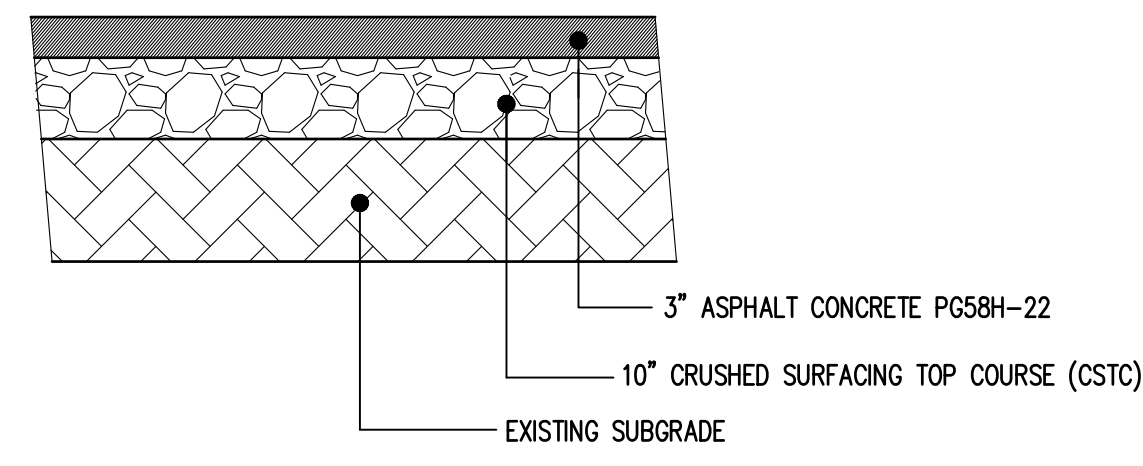
**ACCESSIBLE PARKING STALLS**  
1" = 5'



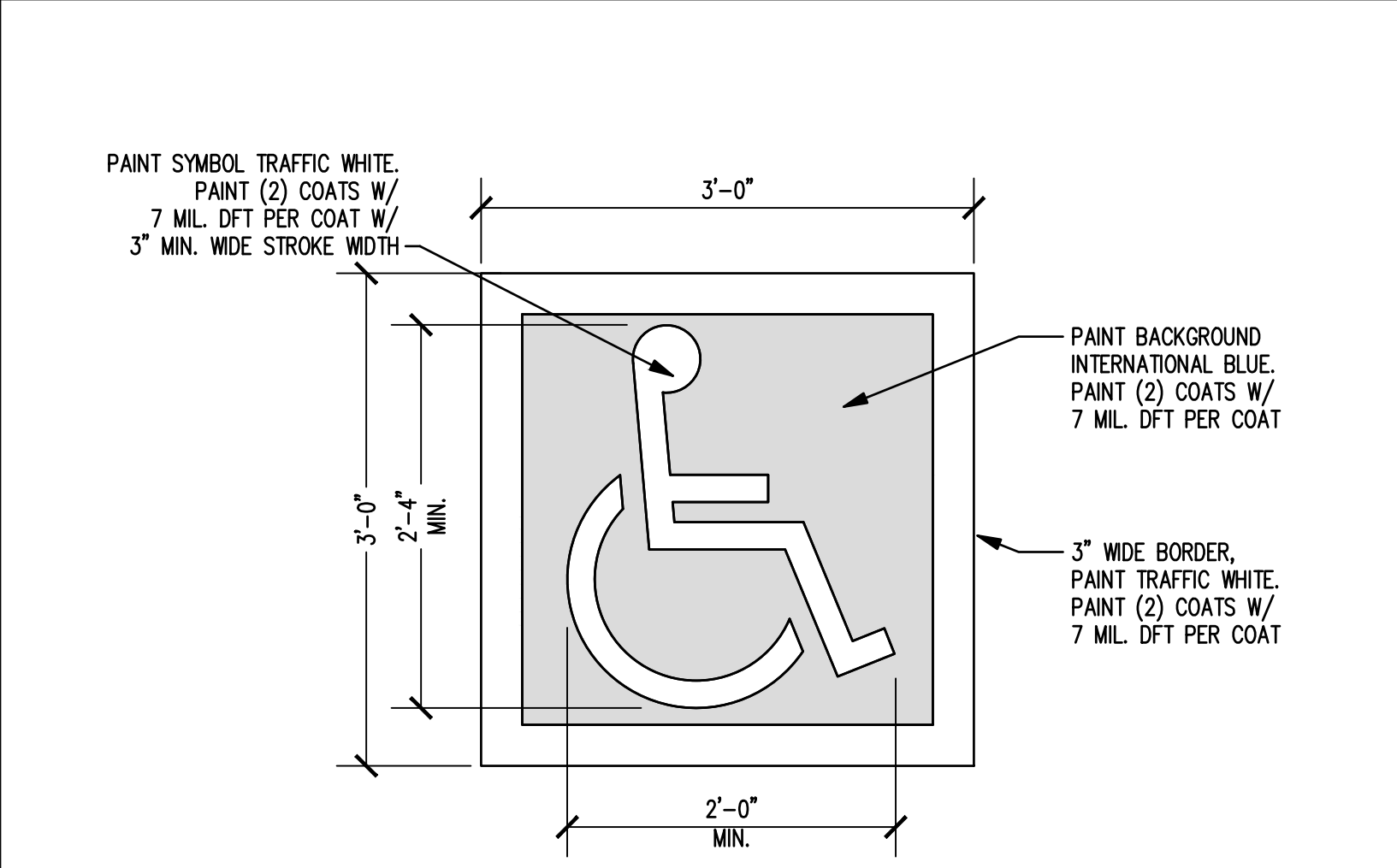
**ACCESSIBLE PARKING SIGN AND POST**  
NTS



**LIGHT DUTY ASPHALT PAVING**  
NTS



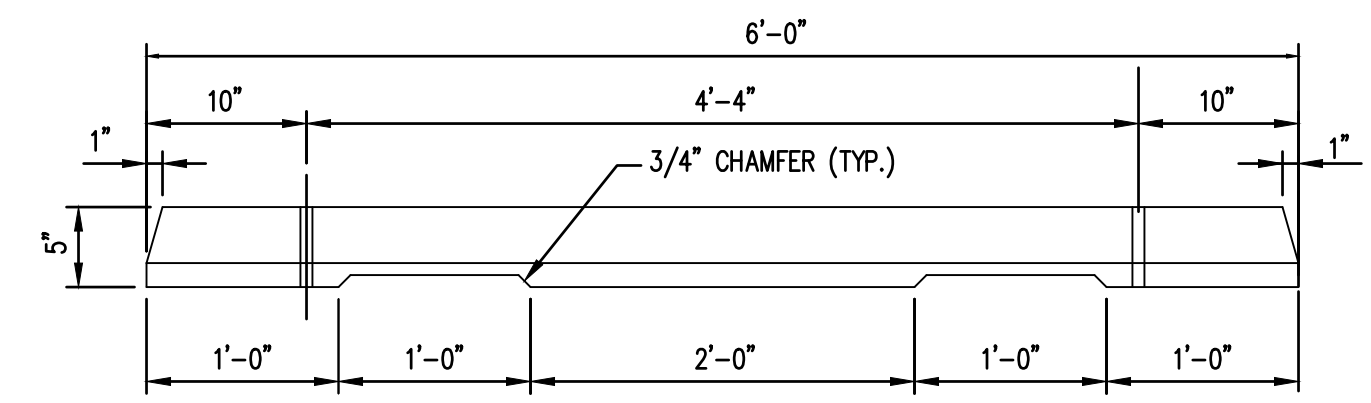
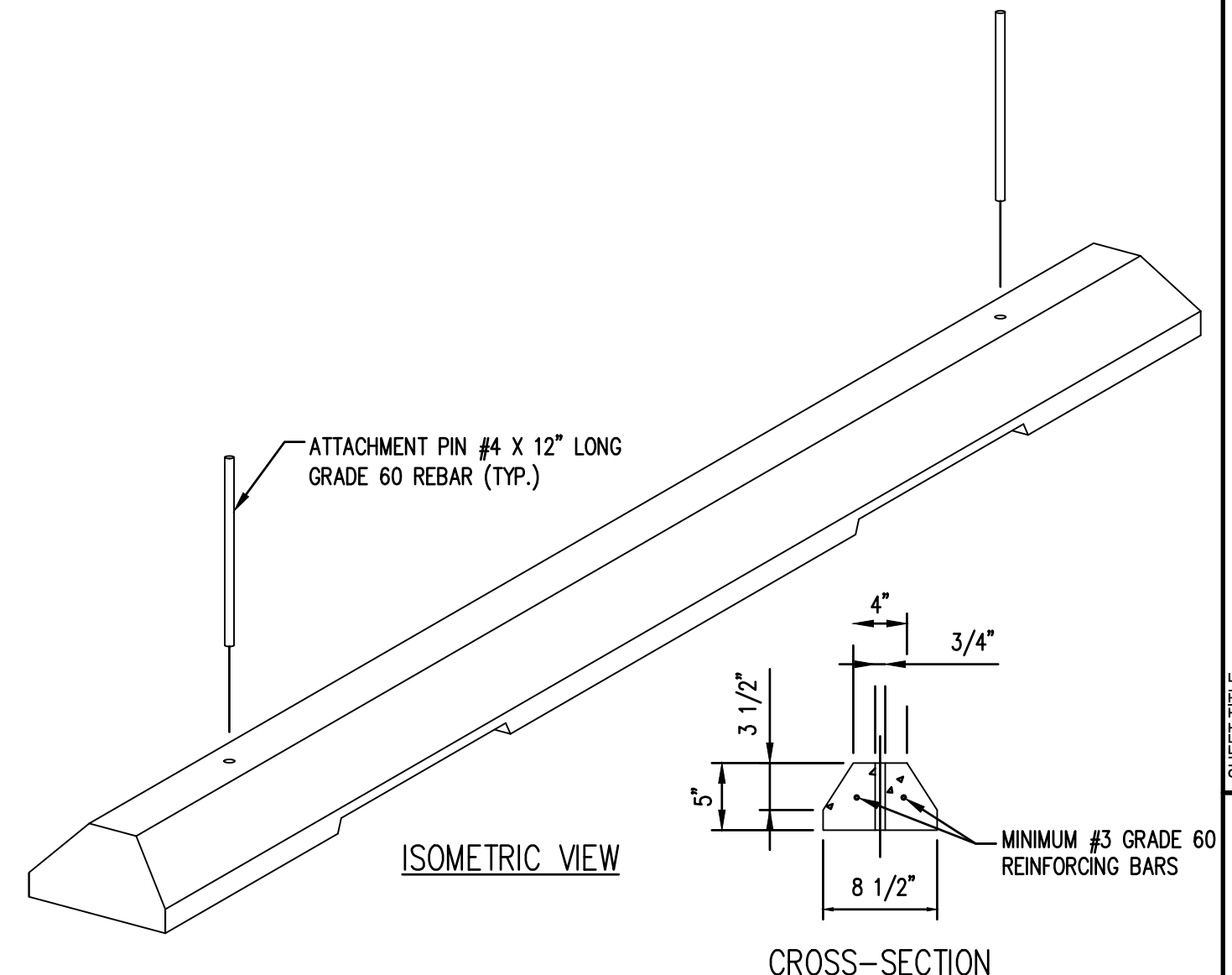
**HEAVY DUTY ASPHALT PAVING**  
NTS



**ACCESSIBILITY SYMBOL**  
NTS

- NOTES**
1. THE ASPHALT MIXTURE AND ASPHALT CEMENT SHALL CONFORM TO THE 2023 WSDOT STANDARD SPECIFICATION SECTION 5-04 FOR 1/2-INCH HMA PG58H-22 ASPHALT BINDER.
  2. MATERIALS SHALL MEET THE 2023 WSDOT STANDARD SPECIFICATION PROVIDED IN THE GEOTECHNICAL REPORT.
  3. MATERIALS AND CONSTRUCTION OF PAVEMENTS FOR PROJECT SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE GEOTECHNICAL ENGINEERING REPORT THAT WAS FINALIZED BY LANDAU ASSOCIATES INC, ON SEPTEMBER 1ST 2022.
  4. THE AGGREGATE BASE COURSE MATERIALS SHOULD BE PLACED ON A STABLE SUBGRADE AND COMPACTED TO AT LEAST 95 PERCENT OF THE MATERIAL'S MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557)

**TYPICAL ASPHALT PAVEMENT SECTIONS**  
NTS



- GENERAL NOTES:**
1. CONCRETE FOR WHEEL STOP: MINIMUM 3,000 PSI IN 28 DAYS
  2. REINFORCING STEEL: PER ASTM A615, GRADE 60
  3. ATTACHMENT PINS SHALL HAVE 7 INCH EMBEDMENT.

**PRECAST CONCRETE WHEEL STOP**  
NTS

NO.	DATE	BY	REVISIONS

**SCJ ALLIANCE**  
CONSULTING SERVICES  
8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516  
P: 360.352.1465 F: 360.352.1509  
SCJALLIANCE.COM

**SITE PLAN NOTES & DETAILS**  
PROJECT NAME:  
**RAC PARKING LOT EXPANSION**  
8845 STEILACOOM RD SE  
LACEY, WA

SEAL:  
**WHITNEY G. HOLM**  
REGISTERED PROFESSIONAL ENGINEER  
03/01/2023

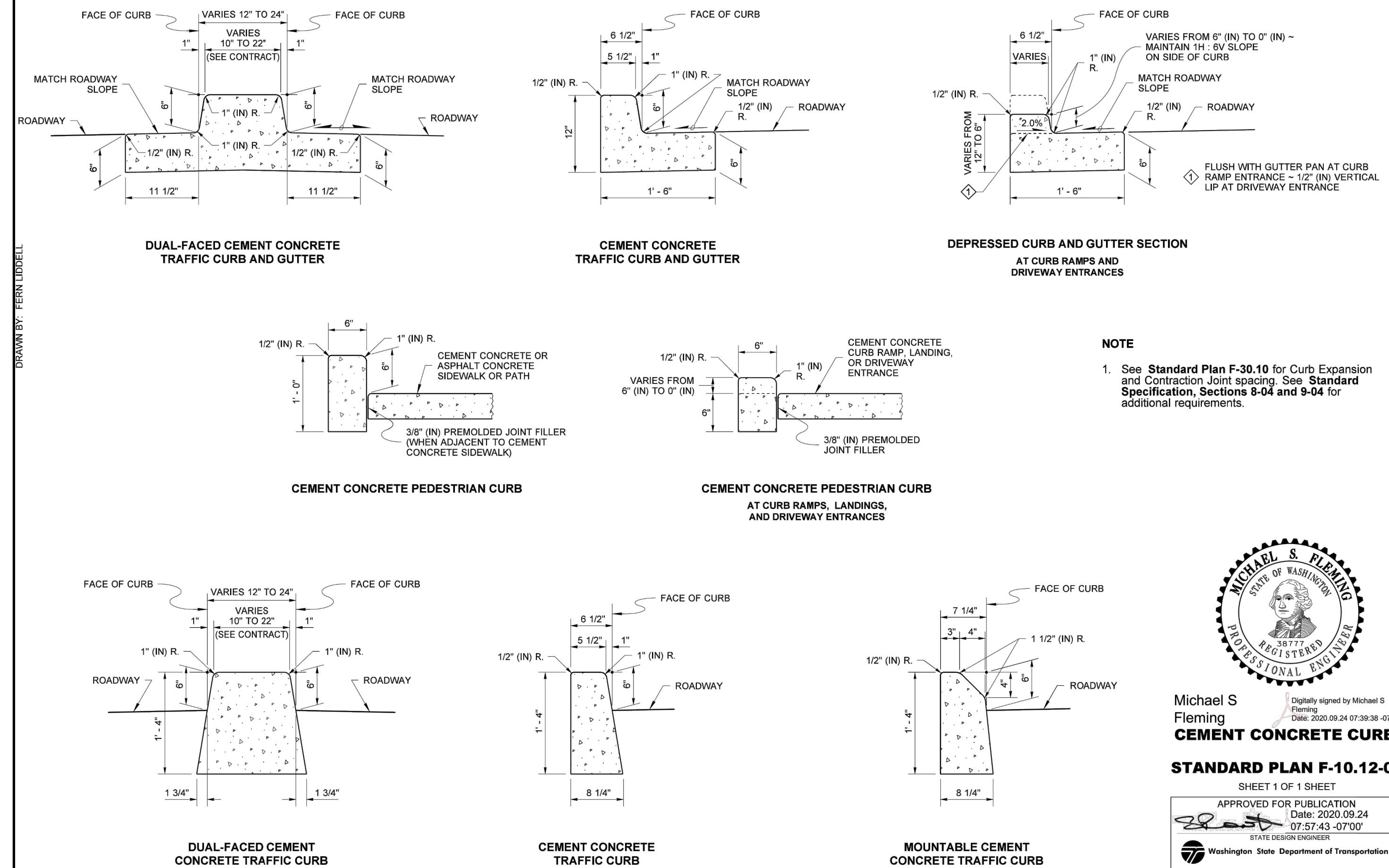
DESIGNER:  
W. HOLM  
DRAWN BY:  
K. GANS  
APPROVED BY:  
W. HOLM  
DATE:  
MARCH 1, 2023  
JOB NO:  
22-000313  
DRAWING FILE NO:  
22-000313 SP-02  
DRAWING NO:  
SP-02  
SHEET NO:  
09 OF 44

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DRAWN BY: FERN LUDWELL



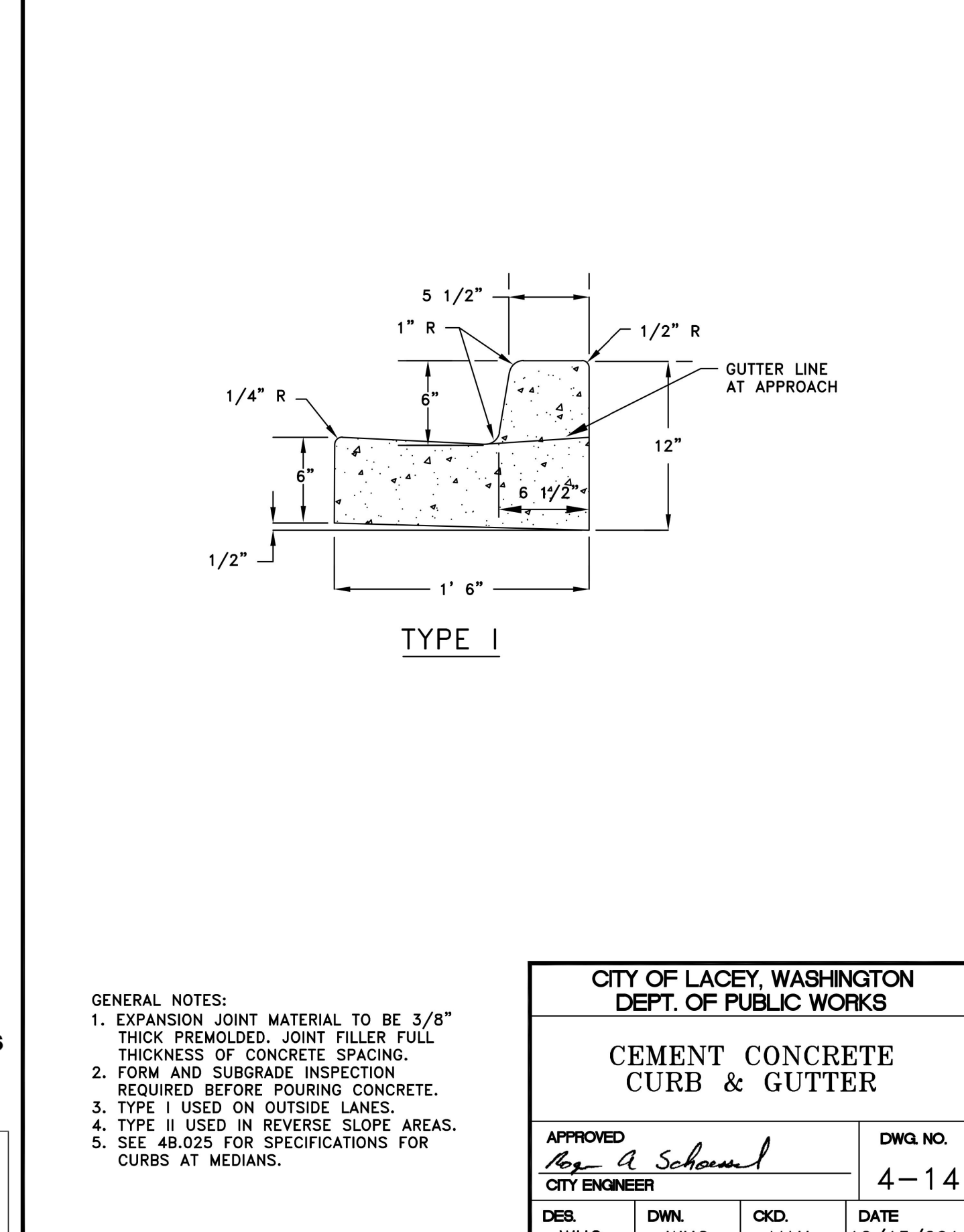
**MICHAEL S. FLEMING**  
 STATE OF WASHINGTON  
 REGISTERED PROFESSIONAL ENGINEER  
 38177

Michael S. Fleming  
 Digitally signed by Michael S. Fleming  
 Date: 2020.09.24 07:39:38 -0700

**CEMENT CONCRETE CURBS**  
 STANDARD PLAN F-10.12-04  
 SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION Date: 2020.09.24 07:57:43 -0700  
 STATE DESIGN ENGINEER  
 Washington State Department of Transportation

D04-14.DWG

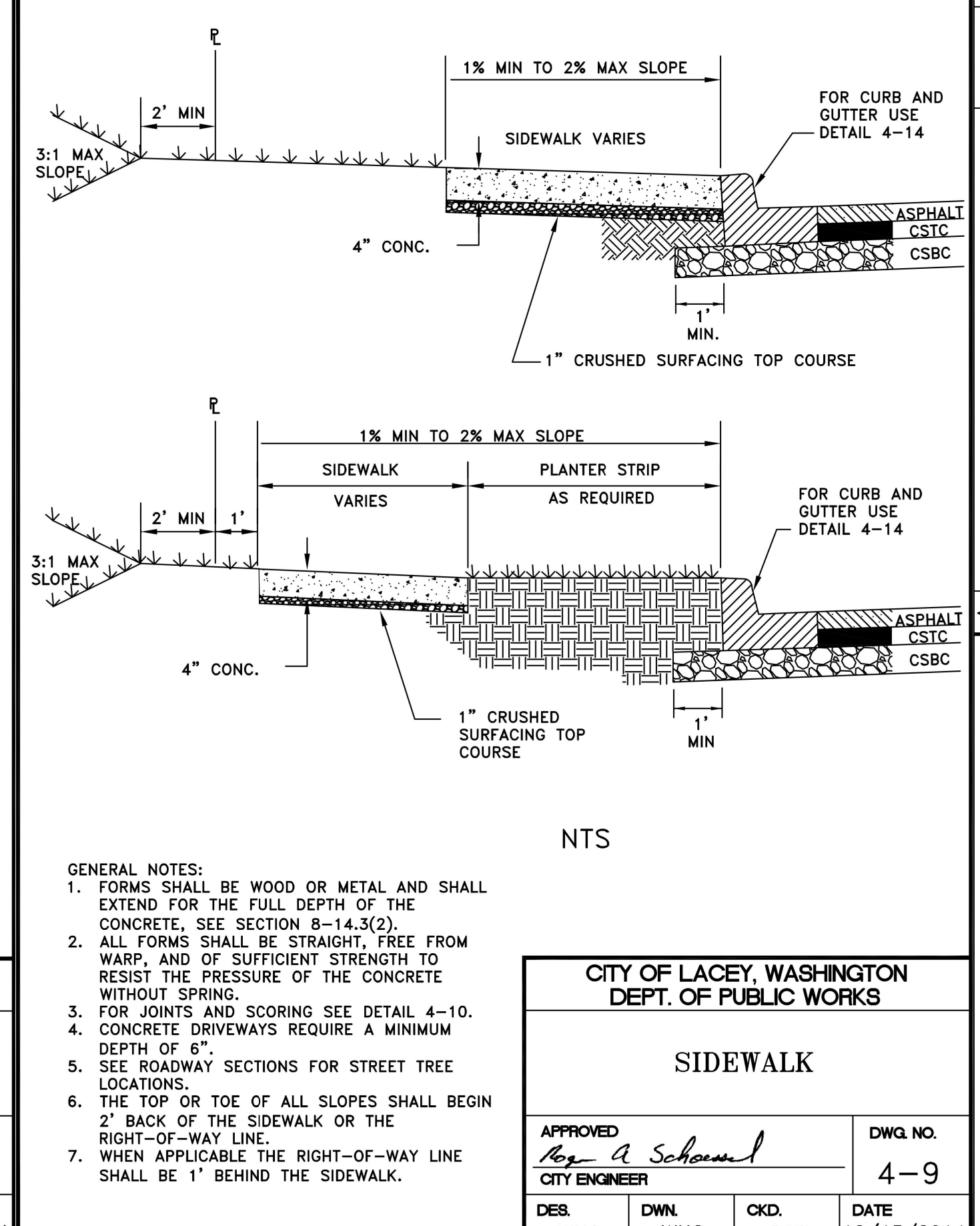


**CITY OF LACEY, WASHINGTON**  
 DEPT. OF PUBLIC WORKS

**CEMENT CONCRETE CURB & GUTTER**

APPROVED <i>Reg. A. Schmitt</i> CITY ENGINEER	DWG. NO. 4-14
DES. WHO	DWN. WHO
CKD. MAH	DATE 12/15/2014

D04-9.DWG



D04-9.DWG

BY	
DATE	
REVISIONS	

**SCJ ALLIANCE**  
 CONSULTING SERVICES  
 8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516  
 P: 360.352.1465 F: 360.352.1509  
 SCJALLIANCE.COM

**CITY OF LACEY, WASHINGTON**  
 DEPT. OF PUBLIC WORKS

**SIDEWALK**

APPROVED <i>Reg. A. Schmitt</i> CITY ENGINEER	DWG. NO. 4-9
DES. WHO	DWN. WHO
CKD. RAS	DATE 12/15/2014

**WHITNEY G. HOLM**  
 STATE OF WASHINGTON  
 REGISTERED PROFESSIONAL ENGINEER  
 03/01/2023

DESIGNER: W. HOLM  
 DRAWN BY: K. GANS  
 APPROVED BY: W. HOLM  
 DATE: MARCH 1, 2023  
 JOB NO: 22-000313  
 DRAWING FILE NO: 22-000313 SP-02  
 DRAWING NO: SP-03  
 SHEET NO: 10 OF 44

SHEET TITLE: SITE PLAN DETAILS  
 PROJECT NAME: RAC PARKING LOT EXPANSION  
 8345 STEILACOOM RD SE LACEY, WA



















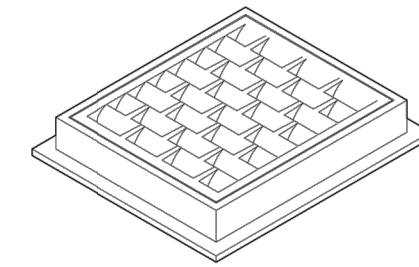




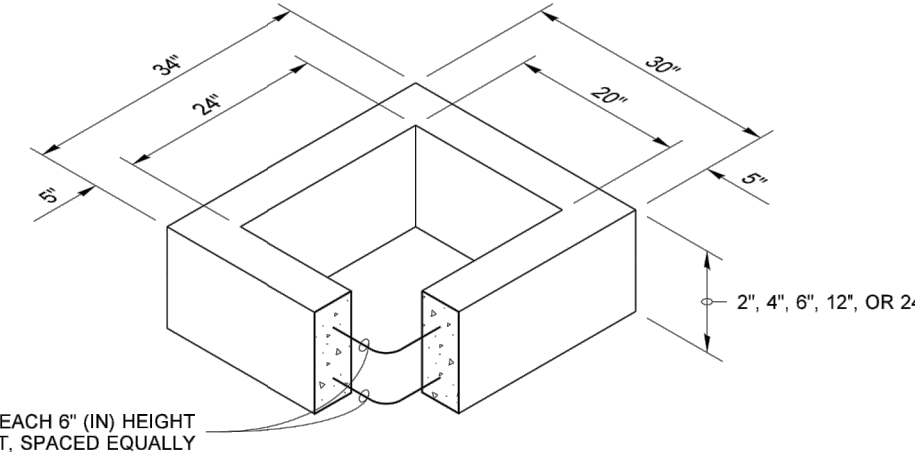
**CITY OF LACEY GENERAL STORM DRAIN CONSTRUCTION NOTES**

- ALL APPROVALS AND PERMITS REQUIRED BY THE CITY OF LACEY SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. A GRADING PERMIT FOR STORM POND CONSTRUCTION MAY BE REQUIRED.
- STORM DRAIN PIPE MATERIAL SHALL BE ON THE WSDOT QUALIFIED PRODUCTS LIST FOR THE SPECIFICATION LISTED BELOW AND APPROVED BY THE CITY PRIOR TO INSTALLATION:
  - PLAIN CONCRETE STORM SEWER PIPE OR REINFORCED CONCRETE STORM SEWER PIPE PER WSDOT STANDARD SPECIFICATION 9-05.7.
  - SOLID WALL PVC STORM SEWER PIPE PER WSDOT STANDARD SPECIFICATION 9-05.12(1).
  - DUCTILE IRON SEWER PIPE PER WSDOT STANDARD SPECIFICATION 9-05.13.
  - HANCOR BLUE SEAL™ AND ADVANCED DRAINAGE SYSTEMS (ADS/HANCOR) N-12 HDPE AND (ADS/HANCOR) SANITITE UP TO 36 INCH IN DIAMETER PER WSDOT STANDARD SPECIFICATIONS 9-05.20 AND 9-05.24.
  - ADVANCE DRAINAGE SYSTEMS (ADS) CORRUGATED POLYPROPYLENE PIPE (CPEP) FROM 42" TO 60" IN DIAMETER PER WSDOT 9-05.24 (1) FOR USE NOT IN RIGHT OF WAY.
  - F. CONTECH DUROMAXX STEEL RIB REINFORCED POLYETHYLENE PIPE, IN DIAMETERS FROM 24 INCH TO 60 INCH PER WSDOT STANDARD SPECIFICATION 9-05.22.
- ALL STORM DRAINAGE SYSTEMS SHALL BE TESTED PER WSDOT STANDARD SPECIFICATION SECTION 7-04.3. TESTING SHALL BE DONE BY THE CONTRACTOR.
- TESTING OF THE STORM SEWER SHALL INCLUDE VIDEO RECORDING OF THE MAIN BY THE CONTRACTOR, IMMEDIATELY PRIOR TO VIDEO RECORDING, ENOUGH WATER SHALL BE RUN DOWN THE LINE SO IT COMES OUT THE LOWER CATCH BASIN. A COPY OF THE VIDEO RECORDING SHALL BE SUBMITTED TO THE CITY OF LACEY. ACCEPTANCE OF THE LINE WILL NOT BE MADE UNTIL AFTER THE RECORDING HAS BEEN REVIEWED AND APPROVED BY THE CITY. TESTING SHALL TAKE PLACE AFTER ALL UNDERGROUND UTILITIES ARE INSTALLED AND COMPACTION OF THE ROADWAY SUBGRADE IS COMPLETE.
- SPECIAL STRUCTURES, OIL/WATER SEPARATORS, AND OUTLET CONTROLS SHALL BE INSTALLED PER PLANS AND MANUFACTURERS' RECOMMENDATIONS. WHERE OIL/WATER SEPARATORS ARE CONNECTED TO A SEWER SYSTEM, THEY SHALL BE INSTALLED WITH A P-TRAP OR CHECK VALVE TO PREVENT ODORS.
- ALL DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH CORE REQUIREMENT 2 OF THE CURRENT CITY OF LACEY STORMWATER DESIGN MANUAL. FOR SITES WHERE VEGETATION HAS BEEN PLANTED THROUGH HYDROSEEDING, THE FINANCIAL GUARANTEE WILL NOT BE RELEASED UNTIL THE VEGETATION HAS BEEN THOROUGHLY ESTABLISHED.
- WHERE CONNECTIONS REQUIRE "FIELD VERIFICATIONS", CONNECTION POINTS WILL BE EXPOSED BY CONTRACTOR AND FITTINGS VERIFIED 48 HOURS PRIOR TO DISTRIBUTING SHUT-DOWN NOTICES.
- ALL CATCH BASINS/MANHOLES SHALL HAVE PADS PER LACEY STANDARD DETAIL.
- ANY CHANGES TO THE DESIGN SHALL FIRST BE REVIEWED AND APPROVED IN WRITING BY THE PROJECT ENGINEER AND THE CITY OF LACEY.
- ALL STORM PIPE SHALL BE A MINIMUM OF 12-INCH DIAMETER FOR MAINS AND 8-INCH DIAMETER FOR LATERALS CROSSINGS. WHEN PRIVATE STORMWATER (I.E. ROOF, LOT, OR FOOTING DRAINS) CANNOT BE INFILTRATED ON INDIVIDUAL LOTS, THE MINIMUM STANDARD PIPING CONNECTION TO THE PUBLIC SYSTEM SHALL BE 8-INCH PVC. THE 8-INCH MAIN USED FOR CONNECTION SHALL BEGIN AT THE RIGHT OF-WAY. THE CONNECTION TO THE CATCH BASIN OR MANHOLE SHALL BE CORED.
- ALL STORM MAINS AND STORMWATER TREATMENT AND/OR FLOW CONTROL BMPS/FACILITIES AREAS SHALL BE STAKED FOR GRADE AND ALIGNMENT BY AN ENGINEERING OR SURVEY FIRM LICENSED TO PERFORM SUCH WORK.
- THE MINIMUM STAKING OF STORM SEWER SYSTEMS SHALL BE AS FOLLOWS:
  - STAKE LOCATION OF ALL CATCH BASINS, MANHOLES, AND OTHER FIXTURES FOR GRADE AND ALIGNMENT.
  - STAKE LOCATION, SIZE, AND DEPTH OF STORMWATER TREATMENT AND/OR FLOW CONTROL BMPS/FACILITIES.
  - STAKE FINISHED GRADE OF ALL STORMWATER FEATURES, INCLUDING BUT NOT LIMITED TO CATCH BASIN/MANHOLE RIM ELEVATIONS, OVERFLOW STRUCTURES, WEIRS, AND INVERT ELEVATIONS OF ALL PIPES IN CATCH BASINS, MANHOLES, AND PIPES THAT DAYLIGHT.
- PIPE SIZE, SLOPE, COVER, ETC., SHALL BE AS SPECIFIED IN THE CITY OF LACEY DEVELOPMENT GUIDELINES AND PUBLIC WORKS STANDARDS.
- ALL DRIVEWAY CULVERTS SHALL BE OF SUFFICIENT LENGTH TO PROVIDE A MINIMUM 3:1 SLOPE FROM THE EDGE OF THE DRIVEWAY TO THE BOTTOM OF THE DITCH AT THE CULVERT END. CULVERTS SHALL HAVE BEVELED END SECTIONS TO MATCH THE SIDE SLOPE.
- IF DRAINAGE OUTLETS (STUB-OUTS) ARE TO BE PROVIDED FOR EACH INDIVIDUAL LOT, THE STUB-OUTS SHALL CONFORM TO THE FOLLOWING:
  - EACH OUTLET SHALL BE SUITABLY LOCATED AT THE LOWEST ELEVATION ON THE LOT, SO AS TO SERVICE ALL FUTURE ROOF DOWNSPOUTS, FOOTING DRAINS, DRIVEWAYS, YARD DRAINS, AND ANY OTHER SURFACE OR SUBSURFACE DRAINS NECESSARY TO RENDER THE LOTS SUITABLE FOR THEIR INTENDED USE. EACH OUTLET SHALL HAVE FREE-FLOWING, POSITIVE DRAINAGE TO AN APPROVED STORM WATER CONVEYANCE SYSTEM OR TO AN APPROVED OUTFALL LOCATION.
  - OUTLETS ON EACH LOT SHALL BE LOCATED WITH A FIVE-FOOT-HIGH, 2-INCH BY 4-INCH STAKE MARKED "STORM" OR "DRAIN." THE STUB-OUT SHALL VISIBLY EXTEND ABOVE SURFACE LEVEL AND BE SECURED TO THE STAKE.
  - DRAINAGE EASEMENTS ARE REQUIRED FOR DRAINAGE SYSTEMS DESIGNED TO CONVEY FLOWS THROUGH INDIVIDUAL LOTS.
  - THE DEVELOPER AND/OR CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATIONS OF ALL STUB-OUT CONVEYANCE LINES WITH RESPECT TO THE UTILITIES (E.G., POWER, GAS, TELEPHONE, TELEVISION).
  - ALL INDIVIDUAL STUB-OUTS SHALL BE PRIVATELY OWNED AND MAINTAINED BY THE LOT HOMEOWNER.
- THE STORM DRAINAGE SYSTEM SHALL BE CONSTRUCTED ACCORDING TO APPROVED PLANS ON FILE WITH THE CITY. ANY MATERIAL DEVIATION FROM THE APPROVED PLANS WILL REQUIRE WRITTEN APPROVAL FROM THE CITY AND SHALL BE CORRECTED IN THE AS-BUILT DRAWINGS.
- ALL AREAS SUBJECT TO CLEARING AND GRADING THAT HAVE NOT BEEN COVERED BY IMPERVIOUS SURFACE, INCORPORATED INTO A DRAINAGE FACILITY, OR ENGINEERED AS STRUCTURAL FILL OR SLOPE SHALL BE AMENDED IN ACCORDANCE WITH THE CURRENT CITY OF LACEY STORMWATER DESIGN MANUAL AND THEN SEEDED, PLANTED, AND MULCHED OR SIMILARLY STABILIZED AFTER CONSTRUCTION TO THE SATISFACTION OF THE CITY. FOR SITES WHERE GRASS HAS BEEN PLANTED THROUGH HYDROSEEDING, THE PERFORMANCE BOND WILL NOT BE RELEASED UNTIL THE GRASS HAS BEEN THOROUGHLY ESTABLISHED, UNLESS OTHERWISE APPROVED BY THE CITY.
- ALL EROSION CONTROL AND STORMWATER FACILITIES SHALL BE REGULARLY INSPECTED AND MAINTAINED BY THE CONTRACTOR DURING THE CONSTRUCTION PHASE OF THE DEVELOPMENT PROJECT.
- NO FINAL CUT OR FILL SLOPE SHALL EXCEED 2:1 WITHOUT STABILIZATION BY ROCKERY OR BY A STRUCTURAL RETAINING WALL.
- THE PROJECT ENGINEER SHALL VERIFY THE LOCATIONS, WIDTHS, THICKNESSES, AND ELEVATIONS OF ALL EXISTING PAVEMENTS AND STRUCTURES, INCLUDING UTILITIES AND OTHER FRONTAGE IMPROVEMENTS, WHICH ARE TO INTERFACE WITH NEW WORK. THE CONTRACTOR SHALL PROVIDE ALL TRIMMING, CUTTING, SAW CUTTING, GRADING, LEVELING, SLOPING, COATING, AND OTHER WORK, INCLUDING MATERIALS AS NECESSARY TO CAUSE THE INTERFACE WITH EXISTING WORKS TO BE PROPER, WITHOUT CONFLICT, ACCEPTABLE TO THE ENGINEER AND THE CITY, COMPLETE IN PLACE, AND READY TO USE.
- COMPACTION OF ALL FILL AREAS SHALL BE PER CURRENT APWA SPECIFICATIONS. FILL SHALL BE PROVIDED IN 6-INCH MAXIMUM LIFTS AND SHALL BE COMPACTED TO 95 PERCENT OF ITS MAXIMUM RELATIVE DENSITY. DEVIATION FROM THIS STANDARD MAY BE APPROVED BY THE DIRECTOR, OR DESIGNER, WHERE RECOMMENDED BY THE LICENSED PROFESSIONAL ENGINEER FOR PLANNED OR EXISTING INFILTRATION FACILITIES.

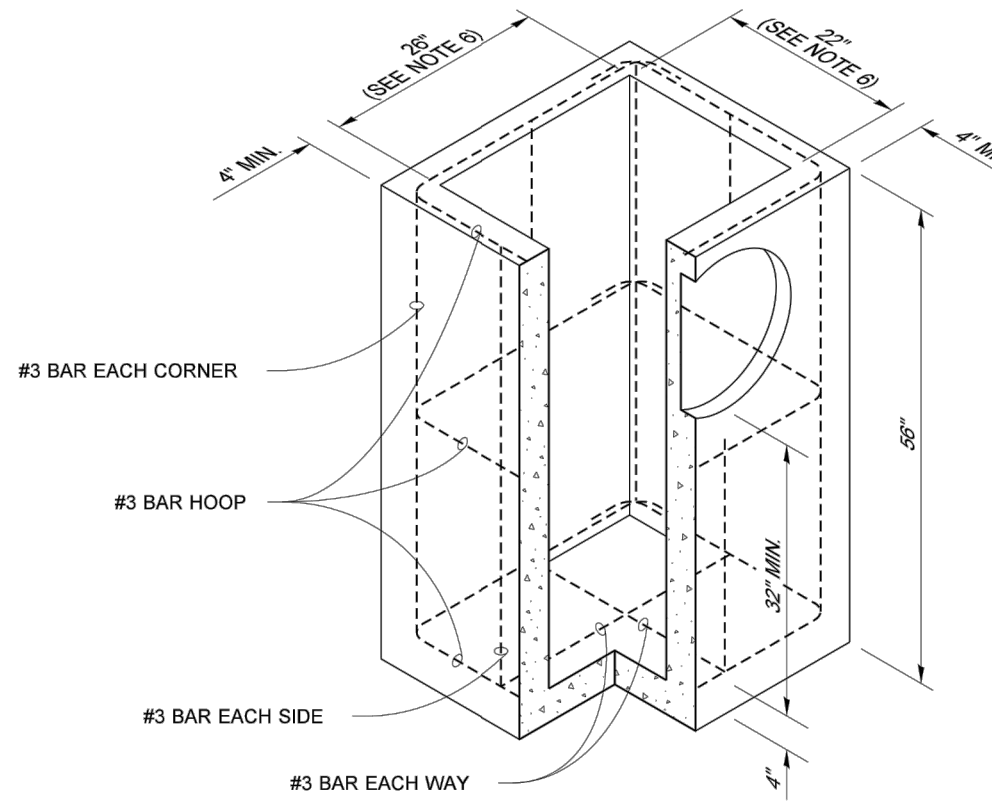
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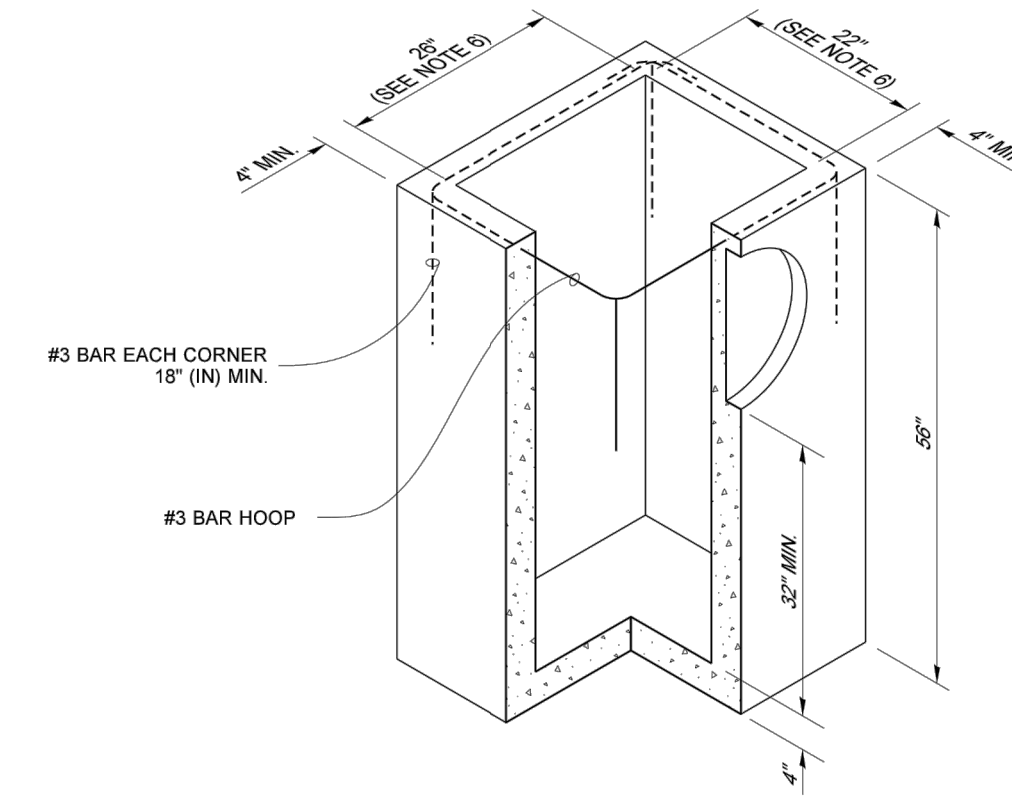
FRAME AND VANED GRATE



RECTANGULAR ADJUSTMENT SECTION



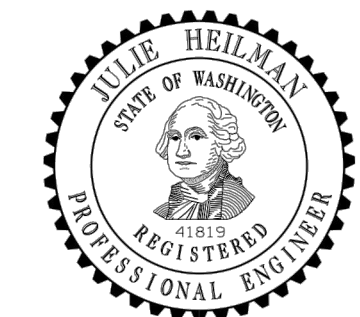
PRECAST BASE SECTION



ALTERNATIVE PRECAST BASE SECTION

**NOTES**

- As acceptable alternatives to the rebar shown in the PRECAST BASE SECTION, fibers (placed according to the Standard Specifications), or wire mesh having a minimum area of 0.12 square inches per foot, shall be used with the minimum required rebar shown in the ALTERNATIVE PRECAST BASE SECTION. Wire mesh shall not be placed in the knockouts.
- The knockout diameter shall not be greater than 18" (in). Knockouts shall have a wall thickness of 2" (in) minimum to 2.5" (in) maximum. Provide a 1.5" (in) minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification Section 9-04.3.
- The maximum depth from the finished grade to the lowest pipe invert shall be 5' (ft).
- The frame and grate may be installed with the flange down, or integrally cast into the adjustment section with flange up.
- The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1 : 24 or steeper.
- The opening shall be measured at the top of the Precast Base Section.
- All pickup holes shall be grouted full after the basin has been placed.



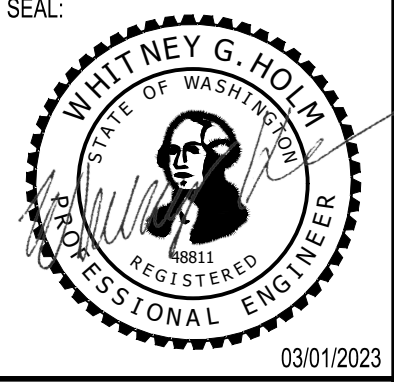
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**CATCH BASIN TYPE 1P  
 (FOR PARKING LOT)**  
**STANDARD PLAN B-5.60-02**  
 SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION  
 Engineer, JGH  
 Jan 26 2017 6:49 AM  
 STATE DESIGN ENGINEER  
 Washington State Department of Transportation

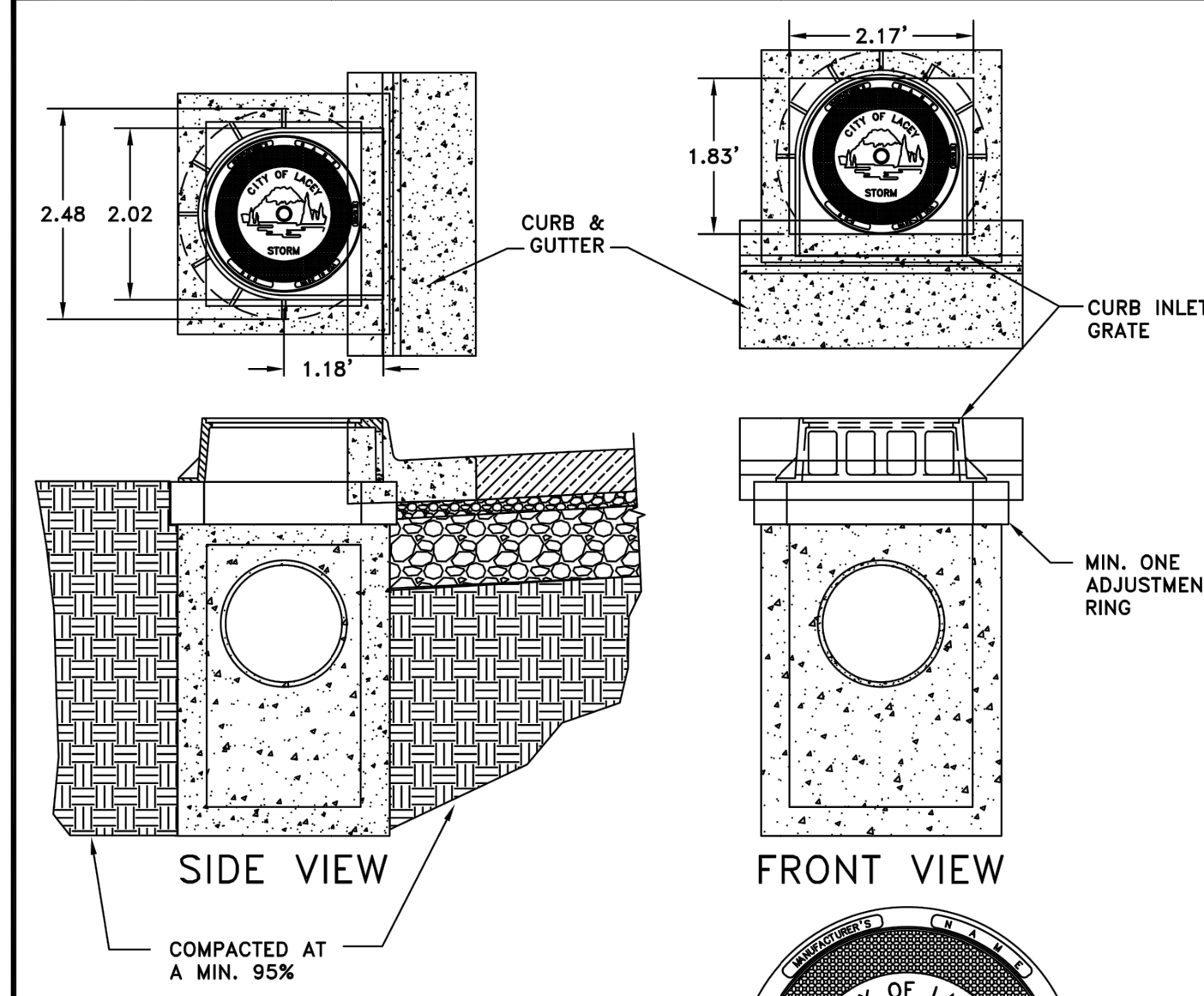
REVISIONS	DATE	BY

**SCJ ALLIANCE**  
 CONSULTING SERVICES  
 8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516  
 P: 360.352.1465 F: 360.352.1509  
 SCJALLIANCE.COM

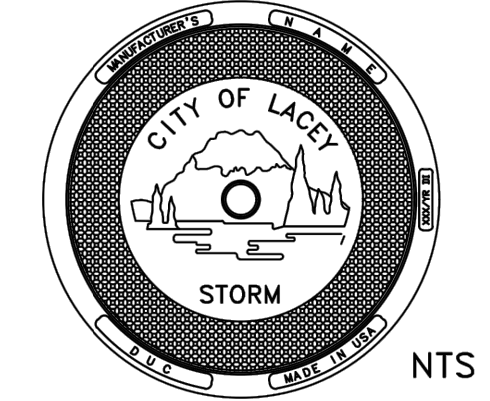
**STORM DRAINAGE NOTES & DETAILS**  
 PROJECT NAME:  
**RAC PARKING LOT EXPANSION**  
 8345 STEILACOOM RD SE  
 LACEY, WA



DESIGNER:  
 W. HOLM  
 DRAWN BY:  
 K. GANS  
 APPROVED BY:  
 W. HOLM  
 DATE:  
 MARCH 1, 2023  
 JOB NO:  
 22-000313  
 DRAWING FILE NO:  
 22-000313 SD-02  
 DRAWING NO:  
 SD-02  
 SHEET NO:  
 16 OF 44



- GENERAL NOTES:**
- CONCRETE PADS FOR ALL CURB INLET BASINS SHALL BE A MINIMUM OF 3' X 3' X 8".
  - ALL STORM MANHOLE LID AND RING ASSEMBLIES SHALL BE EAST JORDAN IRON WORKS OR OLYMPIC FOUNDRY WITH CITY OF LACEY LOGO LIDS WHEN AVAILABLE.
  - ALL STORM MANHOLE LID AND RING ASSEMBLIES SHALL BE DUCTILE IRON AND MANUFACTURED IN THE USA.
  - THIS APPLICATION SHALL BE USED FOR INSTALLATIONS ON ARTERIALS AND BOULEVARDS OR WHEN STORM PIPING IS TOO SHALLOW TO MEET THE MINIMUM 2" OF COVER WHERE THE STORM PIPE ENDS UP IN THE ROADWAY STRUCTURE REGARDLESS OF THE TYPE OF PIPE BEING USED.
  - USE A 2" RECTANGULAR ADJUSTMENT SECTION TURNED LENGTHWISE TO ELIMINATE THE GAP UNDER THE FRAME.
  - DEVIATION FROM THE COMPACTION STANDARDS MAY BE APPROVED BY THE DIRECTOR, OR DESIGNER, WHERE RECOMMENDED BY THE LICENSED PROFESSIONAL ENGINEER FOR PLANNED OR EXISTING INFILTRATION FACILITIES.



THE CITY OF LACEY LOGO LIDS SHALL BE USED WHEN AVAILABLE

**CITY OF LACEY, WASHINGTON  
 DEPT. OF PUBLIC WORKS**

**CURB INLET GRATE &  
 CATCH BASIN INSTALLATION**

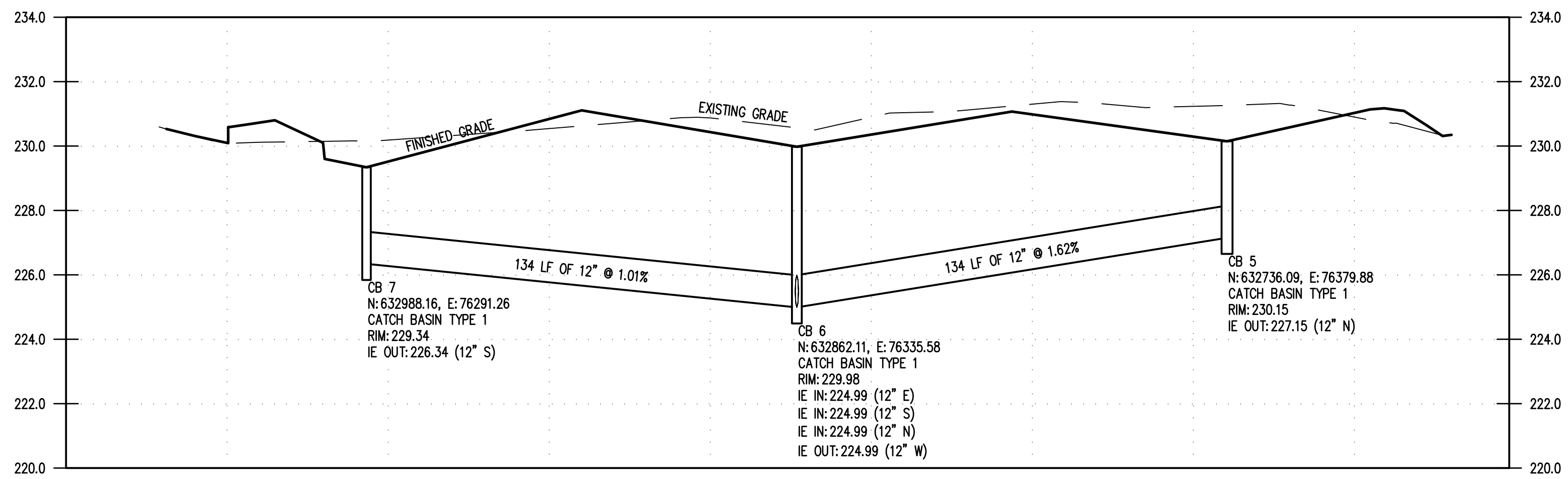
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 CITY ENGINEER  
 DWG. NO.: 5-5  
 DATE: 08/24/2017

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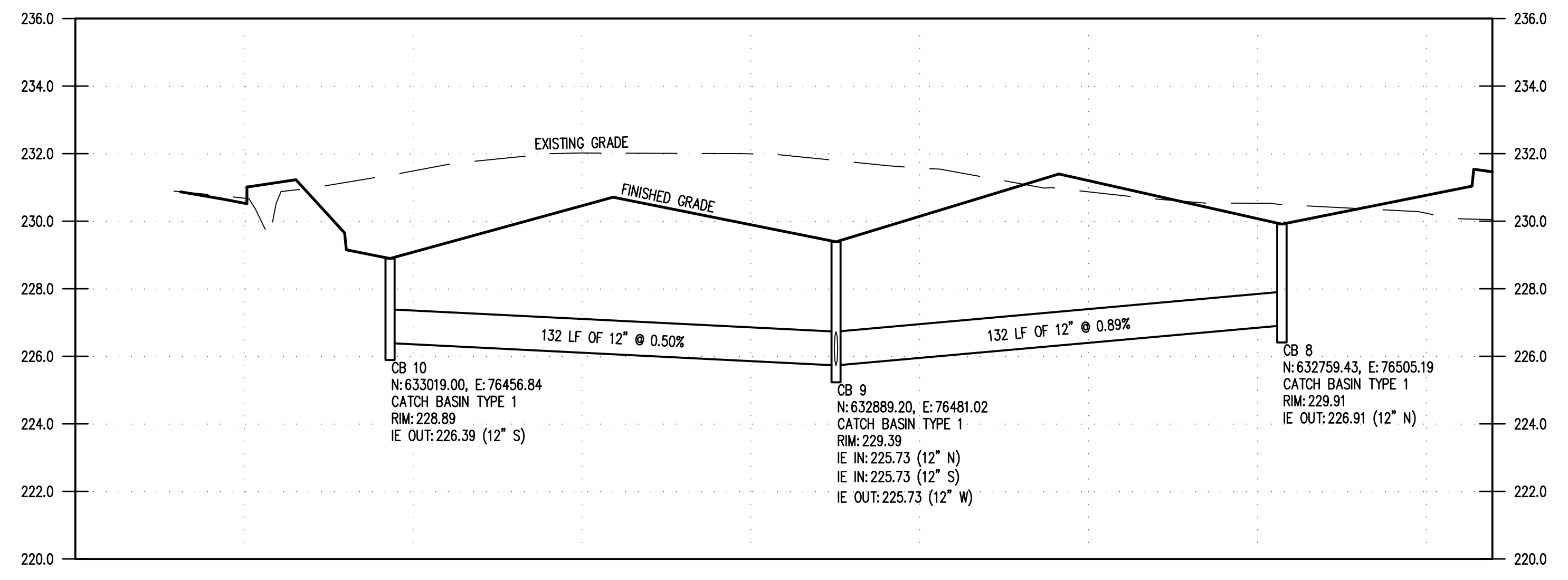




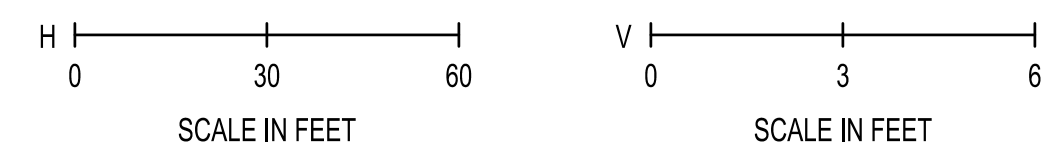




STORM PROFILE 1



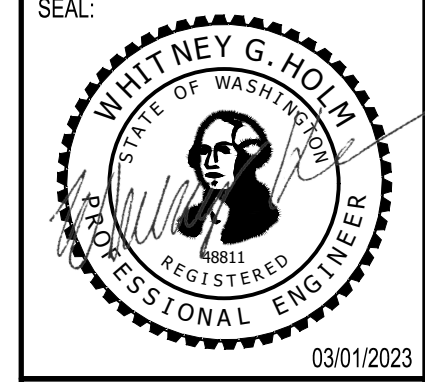
STORM PROFILE 2



REVISIONS	DATE	BY

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 8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516  
 P: 360.352.1465 F: 360.352.1509  
 SCJALLIANCE.COM

SHEET TITLE: STORM PIPE PROFILES  
 PROJECT NAME: RAC PARKING LOT EXPANSION  
 8345 STEILACOOM RD SE  
 LACEY, WA



DESIGNER:	W. HOLM
DRAWN BY:	K. GANS
APPROVED BY:	W. HOLM
DATE:	MARCH 1, 2023
JOB NO:	22-000313
DRAWING FILE NO:	22-000313 SD-04
DRAWING NO:	SD-04
SHEET NO:	18 OF 44

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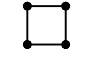


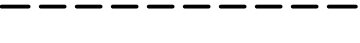
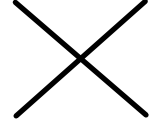




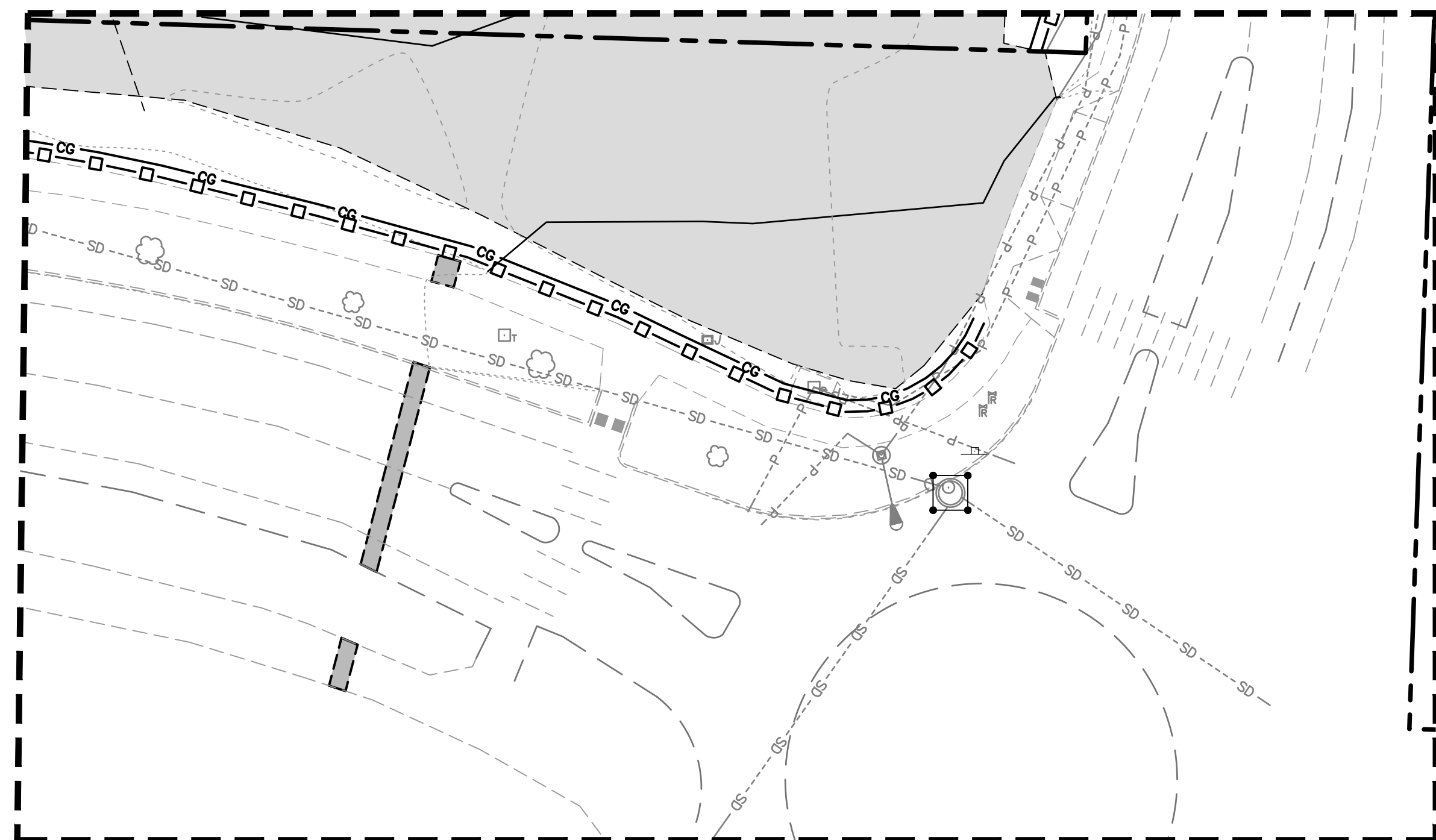
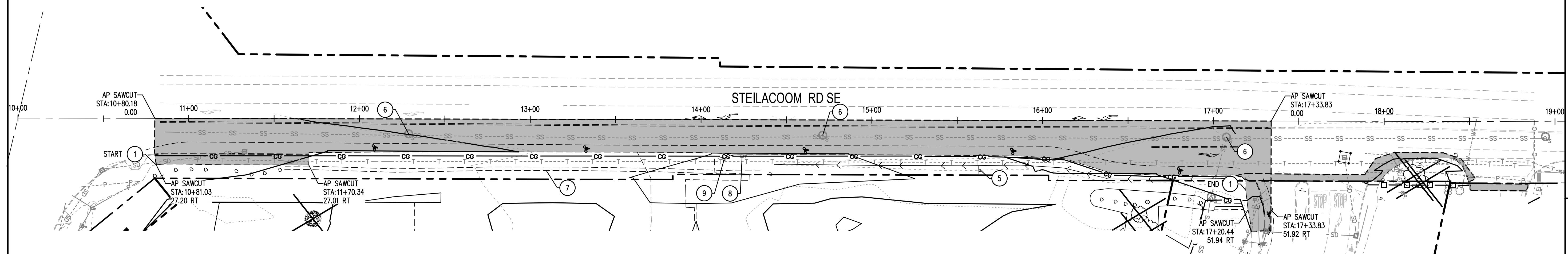
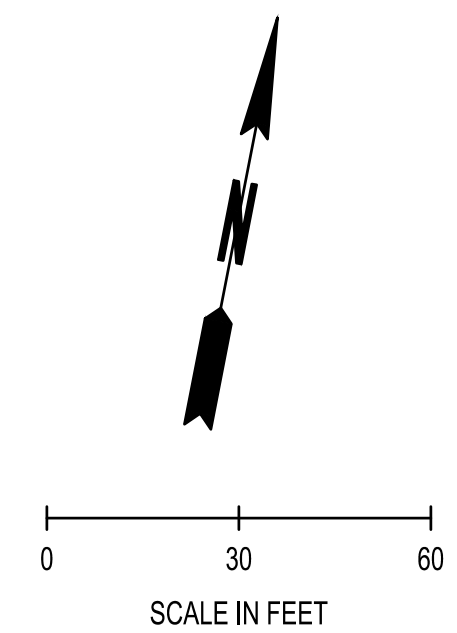
SEC. 14, T 18N., R 1W., W.M.

DEMOLITION NOTES:

1. SAWCUT
2. RELOCATE EXISTING COMMUNICATION VAULT, CONTRACTOR SHALL COORDINATE WITH  $\$-\$$  FOR LOCATION
3. RELOCATE EXISTING SPEED LIMIT SIGN, SEE  $\$-\$$  FOR LOCATION
4. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ASPHALT/CONCRETE AND REMOVE AS NEEDED
5. REMOVE FIRE STATION SIGN, POST AND FOUNDATION. RELOCATE SIGN AND POST ON NEW FOUNDATION, SEE  $\$-\$$  FOR LOCATION
6. ADJUST SANITARY SEWER FRAME AND GRATE TO GRADE
7. REMOVE ECOLOGY BLOCKS, CONTRACTOR SHALL SALVAGE BLOCKS AND DELIVER TO CITY OF LACEY PROPERTY. CONTRACTOR SHALL COORDINATE LOCATION AND SCHEDULE WITH THE CITY OF LACEY
8. CONTRACTOR SHALL COORDINATE WITH UTILITY PURVEYOR ON RELOCATION OF PHONE PEDESTAL
9. COORDINATE WITH INTERCITY TRANSIT ON REMOVAL OF BUS SIGN, POST AND FOUNDATION. SIGN AND POST SHALL BE RETURNED TO INTERCITY TRANSIT.

LEGEND

-  INLET SEDIMENT PROTECTION: SEE EC-02
-  SILT FENCE: SEE EC-02
-  CLEAR AND GRUBBING LIMITS
-  SAWCUT
-  EXISTING TREE AND ROOT BALL TO BE REMOVED
-  EXISTING ASPHALT/CONCRETE AND BASE TO BE REMOVED
-  CEMENT CONCRETE CURB AND GUTTER PER CITY OF LACEY STD. DWG. 4-14 SEE SP-03



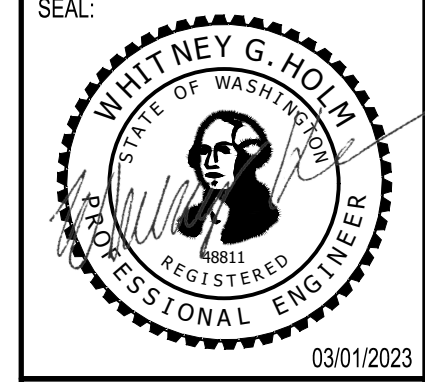
SOUTHERN PAVEMENT REMOVAL & RESTORATION

1" = 20'

REVISIONS	DATE	BY

**SCJ ALLIANCE**  
CONSULTING SERVICES  
8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516  
P: 360.352.1465 F: 360.352.1509  
SCJALLIANCE.COM

SHEET TITLE: STEILACOOM TESC & DEMO PLAN  
PROJECT NAME: RAC PARKING LOT EXPANSION  
8345 STEILACOOM RD SE  
LACEY, WA



DESIGNER:	W. HOLM
DRAWN BY:	K. GANS
APPROVED BY:	W. HOLM
DATE:	MARCH 1, 2023
JOB NO:	22-000313
DRAWING FILE NO:	22-000313 FR-01
DRAWING NO:	FR-01
SHEET NO:	20 OF 44

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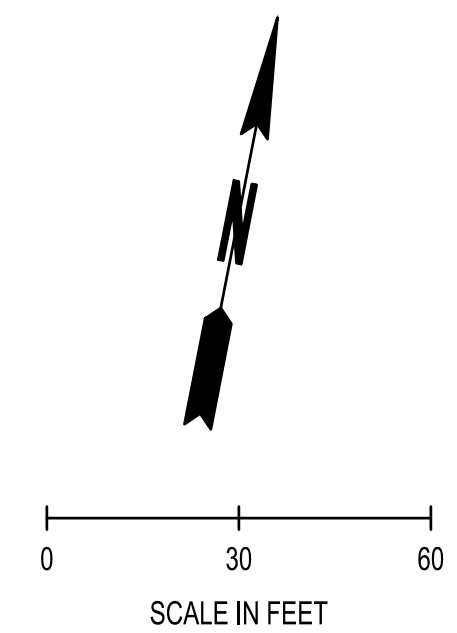
**CALL BEFORE YOU DIG**  
THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.



SEC. 14, T 18N., R 1W., W.M.

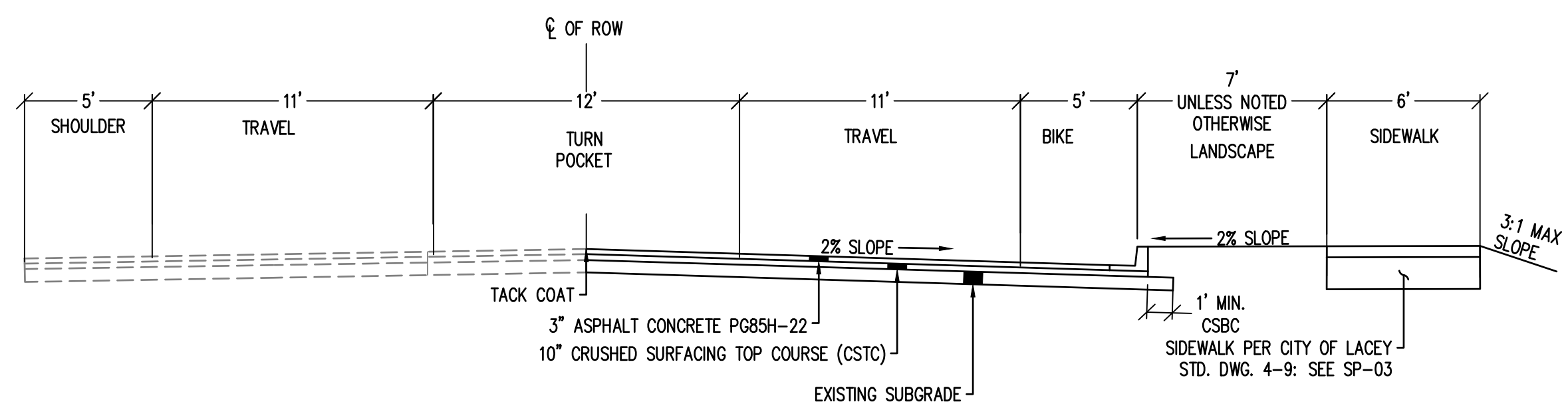
LEGEND

- CEMENT CONCRETE TRAFFIC CURB PER WSDOT STD. PLAN F.10.12.04 SEE SP-03
- CEMENT CONCRETE CURB & GUTTER PER CITY OF LACEY STD. DWG. 4-14 SEE SP-03
- SIDEWALK PER CITY OF LACEY STD. DWG. 4-9; SEE SP-03
- HEAVY DUTY ASPHALT PAVING SEE SP-02
- STORM PIPE (ASTM D3034 SDR35 OR APPROVED EQUAL UNLESS NOTED OTHERWISE. SIZE PER PLAN)
- TYPE 1 CATCH BASIN WITH CURB INLET GRATE, PER CITY OF LACEY STD. DWG. 5-6; SEE SD-02

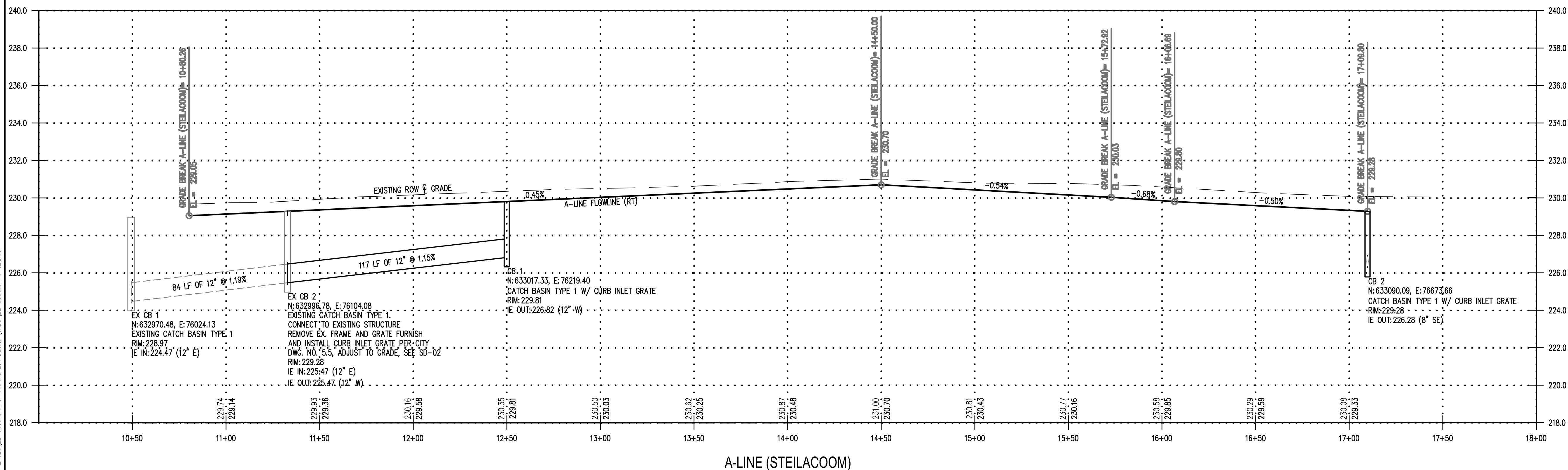
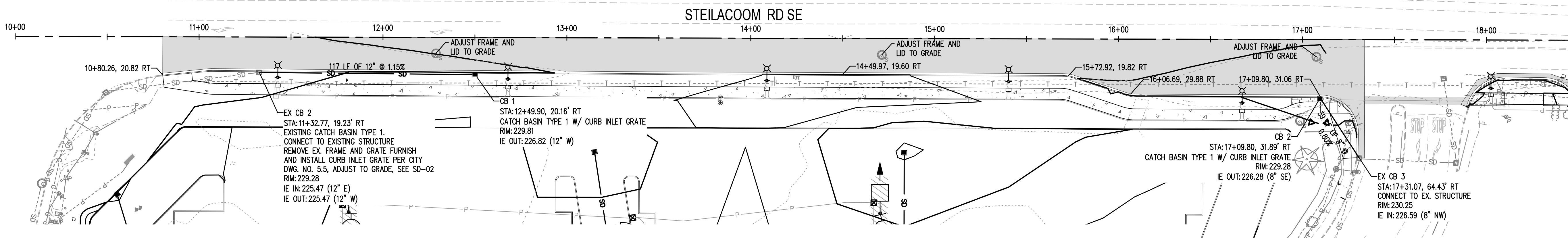


CONSTRUCTION NOTES:

1. SIDEWALK & ADA RAMP ENLARGEMENT: SEE FR-04

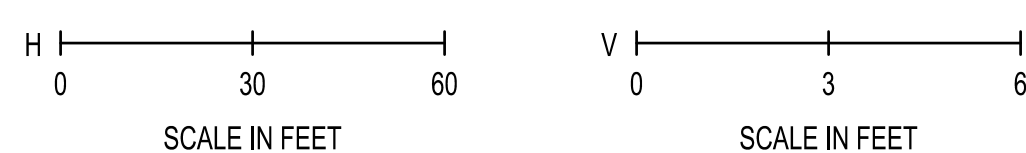


ROAD SECTION  
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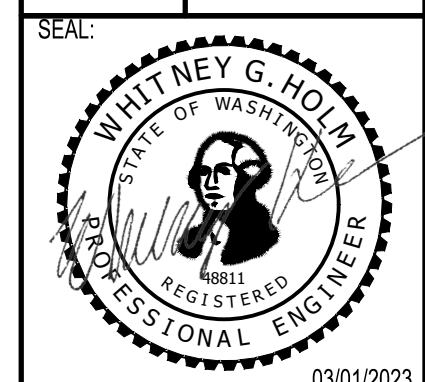
CALL BEFORE YOU DIG

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STEILACOOM ROADWAY PLAN  
RAC PARKING LOT EXPANSION  
8345 STEILACOOM RD SE  
LACEY, WA



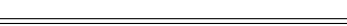







DESIGNER:	W. HOLM
DRAWN BY:	K. GANS
APPROVED BY:	W. HOLM
DATE:	MARCH 1, 2023
JOB NO.:	22-000313
DRAWING FILE NO.:	22-000313 FR-02
DRAWING NO.:	FR-02
SHEET NO.:	21 OF 44

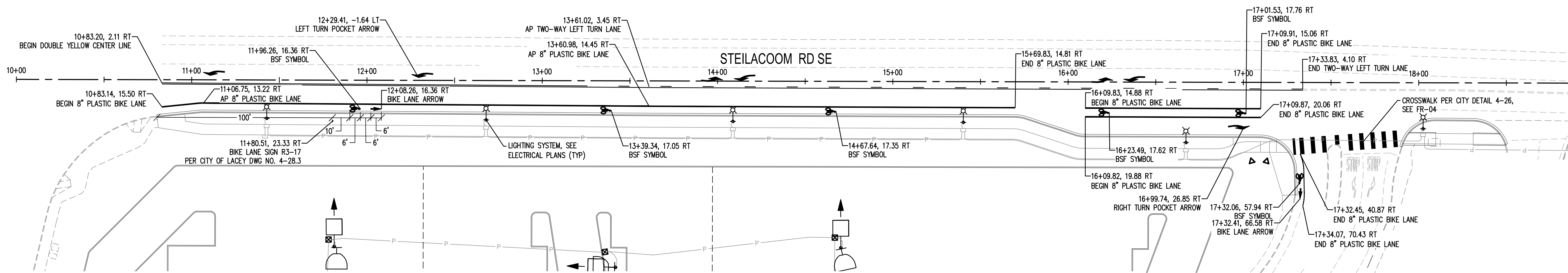
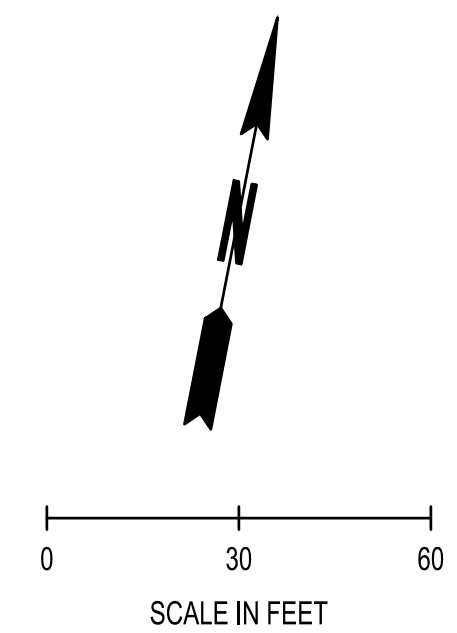
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SEC. 14, T 18N., R 1W., W.M.

LEGEND

-  CEMENT CONCRETE TRAFFIC CURB  
PER WSDOT STD. PLAN F.10.12.04  
SEE SP-03
-  CEMENT CONCRETE CURB AND GUTTER  
PER CITY OF LACEY STD. DWG. 4-14  
SEE SP-03
-  8" SOLID DOUBLE YELLOW CENTER LINES  
PER CITY OF LACEY STD. DWG. 4-27 &  
4-28.5; SEE FR-04
-  8" SOLID AND BROKEN YELLOW CENTER LINES  
PER CITY OF LACEY STD. DWG. 4-27 &  
4-28.5; SEE FR-04
-  8" SOLID WHITE BIKE LINES  
PER CITY OF LACEY STD. DWG. 4-27  
SEE FR-04
-  LEFT AND RIGHT TURN POCKET ARROWS  
PER CITY OF LACEY DWG NO. 4-28.1  
SEE FR-04
-  BSF SYMBOL & BIKE LANE ARROW  
PER CITY OF LACEY DWG NO. 4-28.2  
SEE FR-04
-  CROSSWALK  
PER CITY OF LACEY DWG NO. 4-26  
SEE FR-04



REVISIONS	DATE	BY

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SCJALLIANCE.COM

SHEET TITLE: **STEILACOOM STRIPING PLAN**  
PROJECT NAME: **RAC PARKING LOT EXPANSION  
8345 STEILACOOM RD SE  
LACEY, WA**

SEAL:

DESIGNER:	W. HOLM
DRAWN BY:	K. GANS
APPROVED BY:	W. HOLM
DATE:	MARCH 1, 2023
JOB NO:	22-000313
DRAWING FILE NO:	22-000313 FR-03
DRAWING NO:	FR-03
SHEET NO:	22 OF 44

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 THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.







**REFERENCE NOTES SCHEDULE**

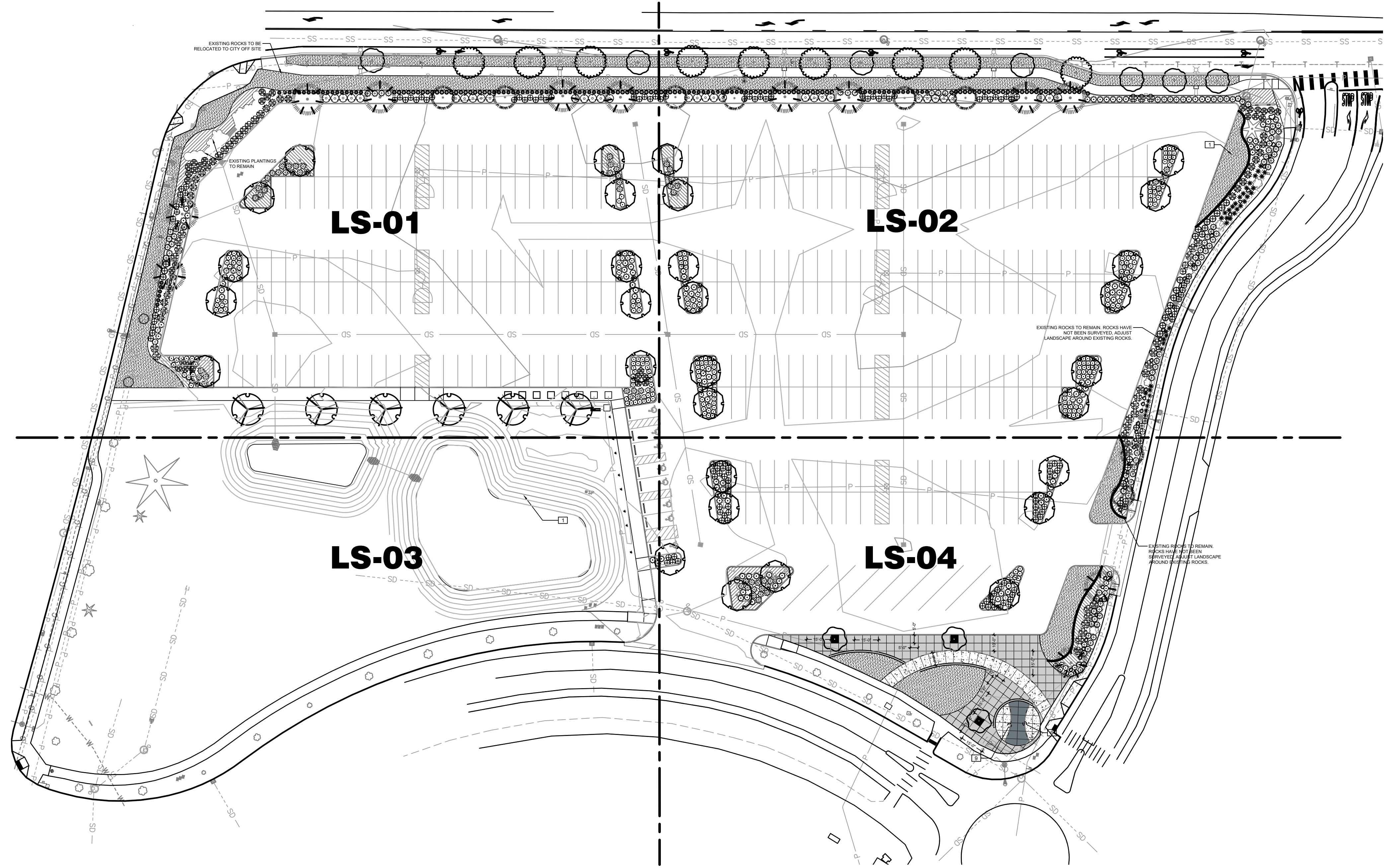
SYMBOL	DESCRIPTION	DETAIL
	1 HYDROSEED STANDARD LAWN MIX, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION	
	2 COLORED & STAMPED CONCRETE UTILIZING MEDIUM GRAY COLOR WITH CHARGREEN RELEASE AGENT WITH SAND BLAST FINISH. TOOLED CONTROL JOINTS AS NOTED IN DETAIL.	
	3 COLORED CONCRETE WITH BOMANITE - COBBLESTONE GRAY (OR APPROVED EQUAL) WITH 5' O.C. TOOLED SCORING - SEE CIVIL PLANS FOR CONCRETE DETAILS.	
	4 STANDARD CONCRETE	
	5 PLAZA SEAT WALL	5/LS-05
	6 LAWN EDGE	7/LS-05
	7 6" MOW STRIP	9/LS-05
SYMBOL	DESCRIPTION	DETAIL
	8 5' X 5' KIVA TREE GRATE AS AVAILABLE FROM URBAN ACCESSORIES (PH: 877-487-0488) OR APPROVED EQUAL	6/LS-05
	9 BASEBALL STITCHING - CLAY BRICKS SET ON IN WITH RED EPOXY OVER EXPANSION JOINT	8/LS-05
	10 CAULKED EXPANSION JOINT - AT 15' O.C. OR AS SHOWN	2/LS-04
	11 TOOLED CONTROL JOINT, SEE DETAIL FOR ADDITIONAL INFORMATION.	1/LS-04

**GENERAL NOTES (ALL SHEETS)**

- SOIL PREPARATION - (LAWN AND ALL LANDSCAPE AREAS). SPREAD TOPSOIL 'A' TO A DEPTH OF 12" IN ALL BEDS AND 3" DEPTH IN LAWN AREAS. SPREAD 100 LBS./1000 S.F. OF DOLOMITE LIME (IN LAWN AREAS ONLY), 150 LBS./1000 S.F. OF AGRICULTURAL GYPSUM AND 15 LBS./1000 S.F. OF 16-8-8 COMMERCIAL FERTILIZER OVER SOIL AMENDMENT. ROTO-TILL ALL OF THE ABOVE TO A 6"-8" DEPTH AND GRADE SMOOTH, COMPACTING AS REQUIRED AND REMOVING ALL ROCKS, CLODS AND DEBRIS.
- ALL PLANTING BEDS TO BE DRESSED WITH 3" OF BARK MULCH.

**SHEET NOTES**

- REFER TO DETAILS AND SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
- ALL PLANTS MUST BE APPROVED BY PROJECT ENGINEER PRIOR TO INSTALLATION.
- NO PLANT SUBSTITUTIONS SHALL BE PERMITTED WITHOUT PRIOR APPROVAL OF PROJECT ENGINEER.
- PLANT LIST QUANTITIES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES IN LIST WITH ACTUAL PLAN CALL-OUTS, AND INSTALLING PLANTINGS PER THE LANDSCAPE PLAN. GROUNDCOVER QUANTITIES SHALL BE ADJUSTED AS REQUIRED FOR FIELD CONDITIONS AT THE SPECIFIED SPACING.
- ALL WORK SHALL BE PERFORMED TO THE SATISFACTION OF THE PROJECT ENGINEER.



Mr. 01\_0723 1:37:30pm - User: jacob.machuga  
 W:\PROJECTS\2022\CITY OF LACEY\22-000313 RAC PARKING LOT DESIGN\CADD\22-000313 X-LS.DWG

**CALL BEFORE YOU DIG**

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

BY	DATE

**SCJ ALLIANCE**  
 CONSULTING SERVICES  
 8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516  
 P: 360.352.1465 F: 360.352.1509  
 SCJALLIANCE.COM

SHEET TITLE: **OVERALL LANDSCAPE PLAN**  
 PROJECT NAME: **RAC PARKING LOT EXPANSION**  
 8345 STEILACOOM RD SE  
 LACEY, WA

SEAL: 
 03/01/2023

DESIGNER:	T. GRANTHAM
DRAWN BY:	T. GRANTHAM
APPROVED BY:	J. GLANDER
DATE:	MARCH 1, 2023
JOB NO:	22-000313
DRAWING FILE NO:	22-000313 X-LS
DRAWING NO:	LS-00
SHEET NO:	24 OF 44



**PLANT SCHEDULE LS-02**

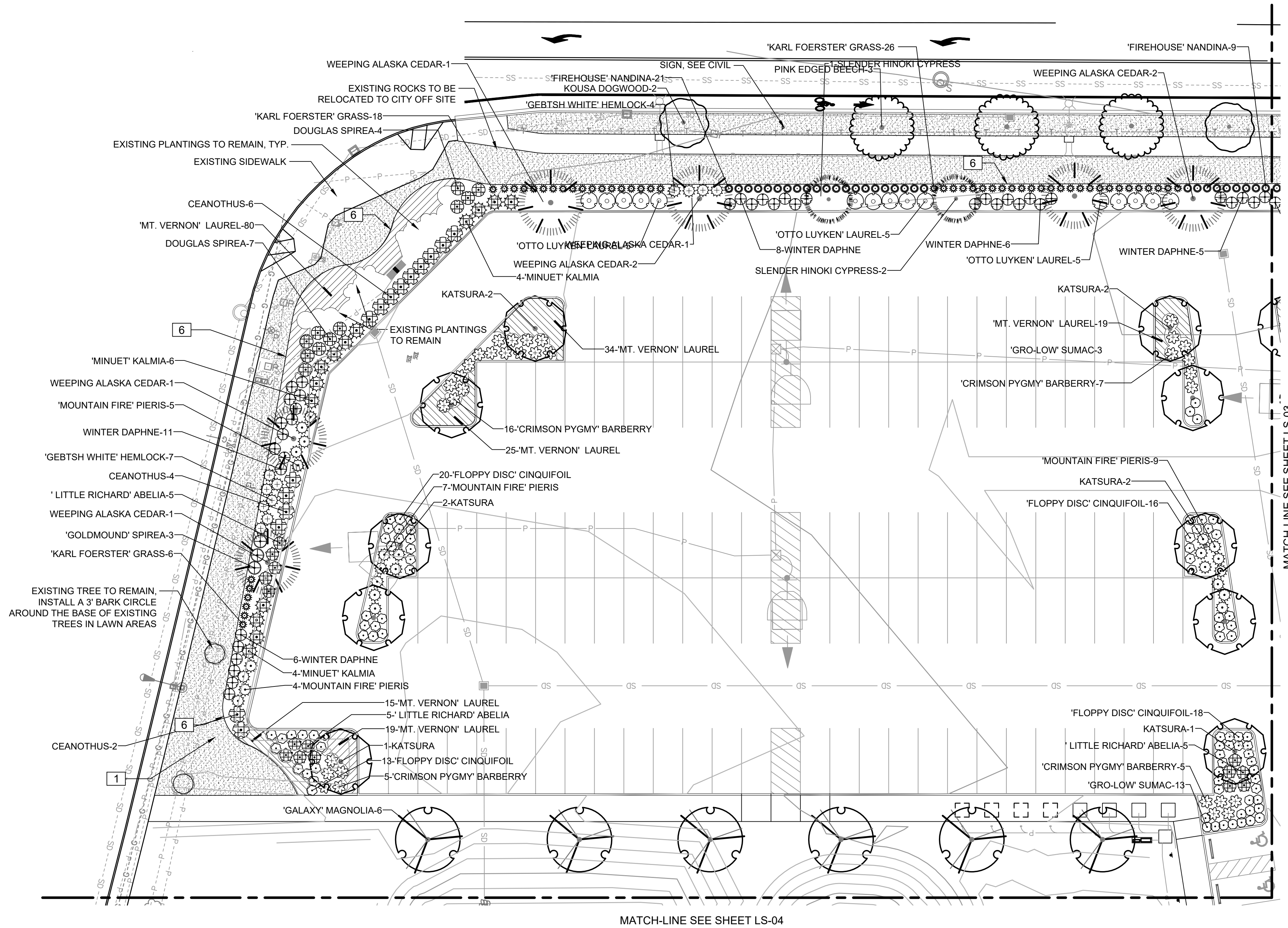
TREES	BOTANICAL / COMMON NAME	SIZE	DESC.
10	CERCIDIPHYLLUM JAPONICUM KATSURA	2" CAL., B&B/ CONT.	12'-14' HT.
6	CHAMAECYPARIS NOOTKATENSIS 'PENDULA' WEeping ALASKA CEDAR	8' HT. MIN.	B&B/ CONT.
2	CHAMAECYPARIS OBTUSA 'GRACILIS' SLENDER HINOKI CYPRESS	8' HT. MIN.	B&B/ CONT.
2	CORNUS KOUSA KOUSA DOGWOOD	1 1/2" CAL	6'-8' HT., B&B
3	FAGUS SYLVATICA 'ROSEOMARGINATA' PINK EDGED BEECH	2" CAL., B&B/ CONT.	12'-14' HT.
6	MAGNOLIA X 'GALAXY' 'GALAXY' MAGNOLIA	2" CAL., B&B-SINGLE STEM	8'-10' HT.

SHRUBS	BOTANICAL / COMMON NAME	SIZE	SPACING
15	ABELIA X GRANDIFLORA ABELIA	5 GAL	4' O.C.
33	BERBERIS THUNBERGII 'CRIMSON PYGMY' 'CRIMSON PYGMY' BARBERRY	2 GAL	3.5' O.C.
50	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' 'KARL FOERSTER' GRASS	2 GAL	3' O.C.
15	CEANOTHUS X 'JULIA PHELPS' CEANOTHUS	5 GAL	6' O.C.
38	DAPHNE ODORA WINTER DAPHNE	2 GAL	3.5' O.C.
14	KALMIA LATIFOLIA 'MINUET' 'MINUET' KALMIA	5 GAL	5' O.C.
30	NANDINA DOMESTICA 'FIREHOUSE' 'FIREHOUSE' NANDINA	2 GAL	2-1/2' O.C.
25	PIERIS JAPONICA 'MOUNTAIN FIRE' 'MOUNTAIN FIRE' PIERIS	5 GAL	4' O.C.
67	POTENTILLA FRUTICOSA 'FLOPPY DISC' 'FLOPPY DISC' CINQUIFOIL	1 GAL	3' O.C.
15	PRUNUS LAUROCERASUS 'OTTO LUYKEN' 'OTTO LUYKEN' LAUREL	21"-24" HT., B&B	5' O.C.
16	RHUS AROMATICA 'GRO-LOW' 'GRO-LOW' SUMAC	5 GAL	3' O.C.
11	SPIRAEA DOUGLASII DOUGLAS SPIREA	5 GAL	4' O.C.
3	SPIRAEA JAPONICA 'GOLDMOUND' 'GOLDMOUND' SPIREA	3 GAL	4' O.C.
11	TSUGA CANADENSIS 'GENTSH WHITE' 'GENTSH WHITE' HEMLOCK	5 GAL	4' O.C.

GROUND COVERS	BOTANICAL / COMMON NAME	SIZE	SPACING
192	PRUNUS LAUROCERASUS 'MOUNT VERNON' 'MT. VERNON' LAUREL	1 GAL	2-1/2' O.C.

**REFERENCE NOTES SCHEDULE LS-01**

SYMBOL	DESCRIPTION	DETAIL
[1]	HYDROSEED STANDARD LAWN MIX, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION	
[6]	LAWN EDGE	7/LS-05



NO.	DATE	BY

**SCJ ALLIANCE**  
CONSULTING SERVICES  
8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516  
P: 360.352.1465 F: 360.352.1509  
SCJALLIANCE.COM

**NORTHWEST LANDSCAPE PLAN**  
PROJECT NAME:  
**RAC PARKING LOT EXPANSION**  
8345 STEILACOOM RD SE  
LACEY, WA

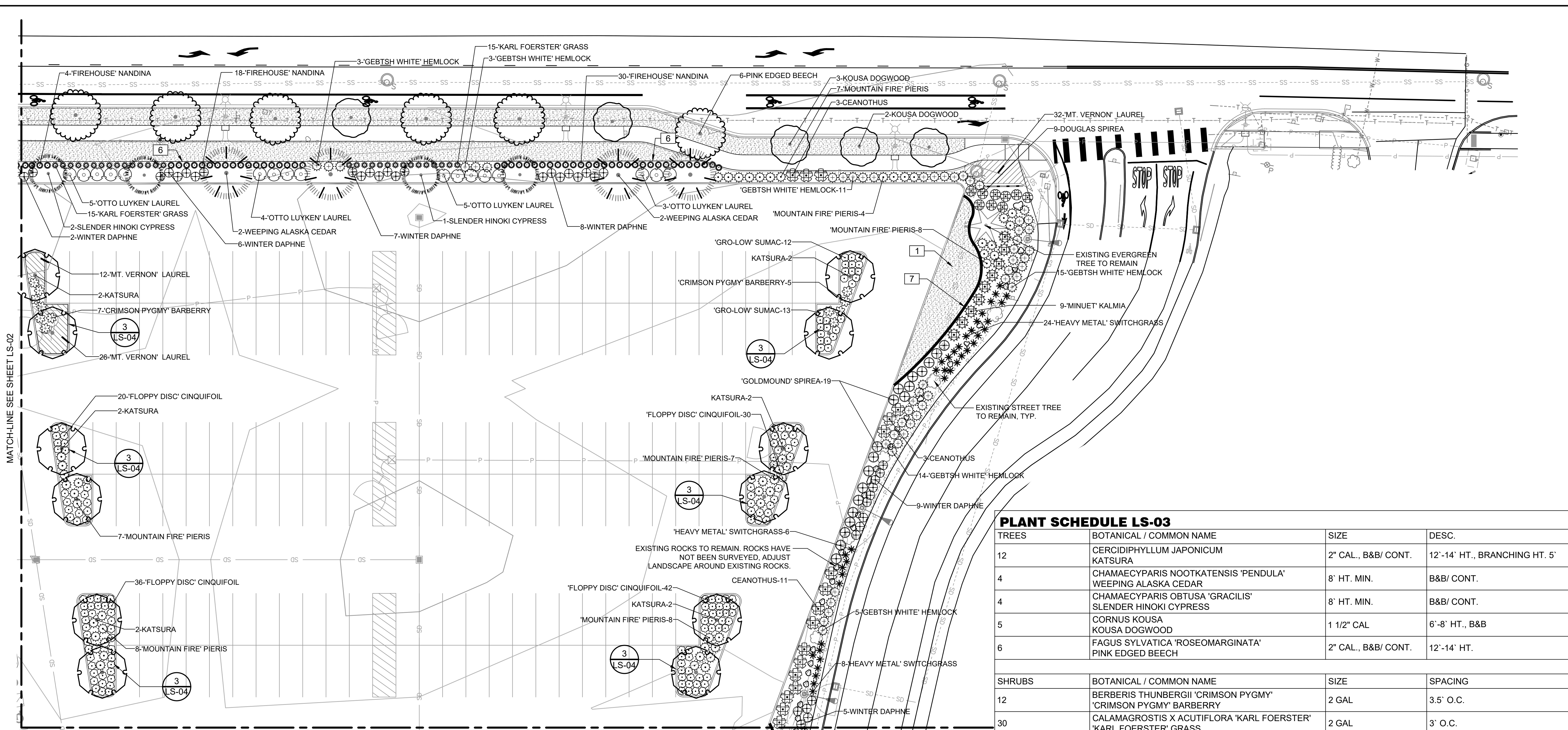
SEAL:   
03/01/2023

DESIGNER:  
T. GRANTHAM  
DRAWN BY:  
T. GRANTHAM  
APPROVED BY:  
J. GLANDER  
DATE:  
MARCH 1, 2023  
JOB NO:  
22-000313  
DRAWING FILE NO:  
22-000313 X-LS  
DRAWING NO:  
**LS-01**  
SHEET NO:  
25 OF 44

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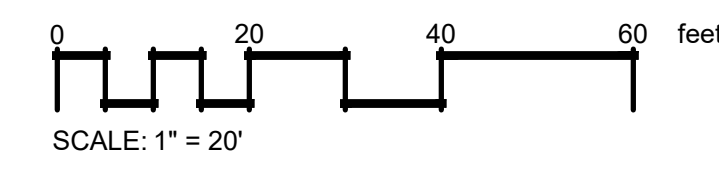
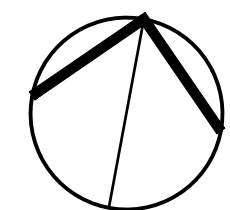


MATCH-LINE SEE SHEET LS-02

MATCH-LINE SEE SHEET LS-05

**REFERENCE NOTES SCHEDULE LS-02**

SYMBOL	DESCRIPTION	DETAIL
	1 HYDROSEED STANDARD LAWN MIX, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION	
	6 LAWN EDGE	7/LS-05
	7 6" MOW STRIP	9/LS-05



**PLANT SCHEDULE LS-03**

TREES	BOTANICAL / COMMON NAME	SIZE	DESC.
12	CERCIDIPHYLLUM JAPONICUM KATSURA	2" CAL., B&B/ CONT.	12'-14' HT., BRANCHING HT. 5'
4	CHAMAECYPARIS NOOTKATENSIS 'PENDULA' WEeping ALASKA CEDAR	8' HT. MIN.	B&B/ CONT.
4	CHAMAECYPARIS OBTUSA 'GRACILIS' SLENDER HINOKI CYPRESS	8' HT. MIN.	B&B/ CONT.
5	CORNUS KOUSA KOUSA DOGWOOD	1 1/2" CAL	6'-8' HT., B&B
6	FAGUS SYLVATICA 'ROSEOMARGINATA' PINK EDGED BEECH	2" CAL., B&B/ CONT.	12'-14' HT.
SHRUBS	BOTANICAL / COMMON NAME	SIZE	SPACING
12	BERBERIS THUNBERGII 'CRIMSON PYGMY' 'CRIMSON PYGMY' BARBERRY	2 GAL	3.5' O.C.
30	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' 'KARL FOERSTER' GRASS	2 GAL	3' O.C.
17	CEANOTHUS X 'JULIA PHELPS' CEANOTHUS	5 GAL	6' O.C.
37	DAPHNE ODORA WINTER DAPHNE	2 GAL	3.5' O.C.
9	KALMIA LATIFOLIA 'MINUET' 'MINUET' KALMIA	5 GAL	5' O.C.
52	NANDINA DOMESTICA 'FIREHOUSE' 'FIREHOUSE' NANDINA	2 GAL	2-1/2' O.C.
38	PANICUM VIRGATUM 'HEAVY METAL' 'HEAVY METAL' SWITCHGRASS	3 GAL	3' O.C.
49	PIERIS JAPONICA 'MOUNTAIN FIRE' 'MOUNTAIN FIRE' PIERIS	5 GAL	4' O.C.
128	POTENTILLA FRUTICOSA 'FLOPPY DISC' 'FLOPPY DISC' CINQUIFOIL	1 GAL	3' O.C.
17	PRUNUS LAUROCERASUS 'OTTO LUYKEN' 'OTTO LUYKEN' LAUREL	21"-24" HT., B&B	5' O.C.
25	RHUS AROMATICA 'GRO-LOW' 'GRO-LOW' SUMAC	5 GAL	3' O.C.
9	SPIRAEA DOUGLASII DOUGLAS SPIREA	5 GAL	4' O.C.
19	SPIRAEA JAPONICA 'GOLDMOUND' 'GOLDMOUND' SPIREA	3 GAL	4' O.C.
52	TSUGA CANADENSIS 'GENTSH WHITE' 'GEBTSH WHITE' HEMLOCK	5 GAL	4' O.C.
GROUND COVERS	BOTANICAL / COMMON NAME	SIZE	SPACING
70	PRUNUS LAUROCERASUS 'MOUNT VERNON' 'MT. VERNON' LAUREL	1 GAL	2-1/2' O.C.

Mr. 01, 2023 1:37:53pm User: jacob.machlye  
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REVISIONS	DATE	BY

**SCJ ALLIANCE**  
CONSULTING SERVICES  
8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516  
P: 360.352.1465 F: 360.352.1509  
SCJALLIANCE.COM

**NORTHEAST LANDSCAPE PLAN**

**RAC PARKING LOT EXPANSION**  
8345 STEILACOOM RD SE  
LACEY, WA

SHEET TITLE: NORTHEAST LANDSCAPE PLAN  
PROJECT NAME: RAC PARKING LOT EXPANSION

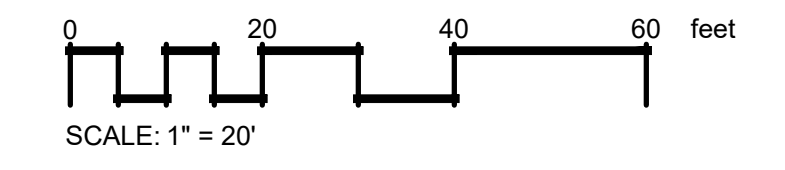
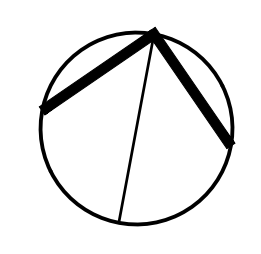
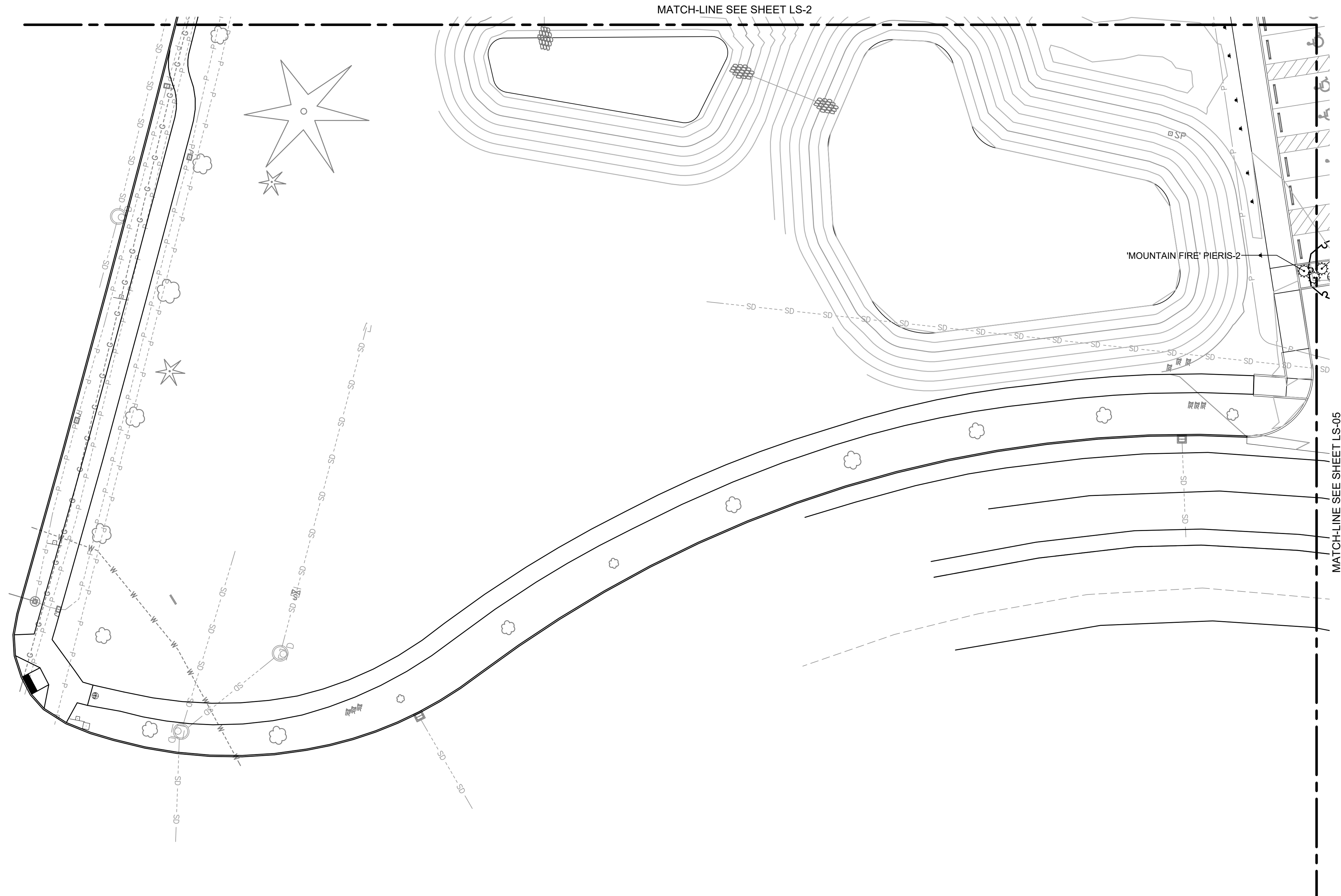
DESIGNER: T. GRANTHAM  
DRAWN BY: T. GRANTHAM  
APPROVED BY: J. GLANDER  
DATE: MARCH 1, 2023  
JOB NO: 22-000313  
DRAWING FILE NO: 22-000313 X-LS  
DRAWING NO: LS-02  
SHEET NO: 26 OF 44



PLANT SCHEDULE LS-04			
SHRUBS	BOTANICAL / COMMON NAME	SIZE	SPACING
2	PIERIS JAPONICA 'VALLEY FIRE' 'VALLEY FIRE' PIERIS	5 GAL	4' O.C.

**REFERENCE NOTES SCHEDULE LS-03**

SYMBOL	DESCRIPTION
1	HYDROSEED STANDARD LAWN MIX, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION



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**CALL BEFORE YOU DIG**  
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REVISIONS	DATE	BY

**SCJ ALLIANCE**  
 CONSULTING SERVICES  
 8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516  
 P: 360.352.1465 F: 360.352.1509  
 SCJALLIANCE.COM

SHEET TITLE: **SOUTHWEST LANDSCAPE PLAN**  
 PROJECT NAME: **RAC PARKING LOT EXPANSION**  
 8345 STEILACOOM RD SE  
 LACEY, WA



DESIGNER:	T. GRANTHAM
DRAWN BY:	T. GRANTHAM
APPROVED BY:	J. GLANDER
DATE:	MARCH 1, 2023
JOB NO:	22-000313
DRAWING FILE NO:	22-000313-X-LS
DRAWING NO:	LS-03
SHEET NO:	27 OF 44



**PLANT SCHEDULE LS-05**

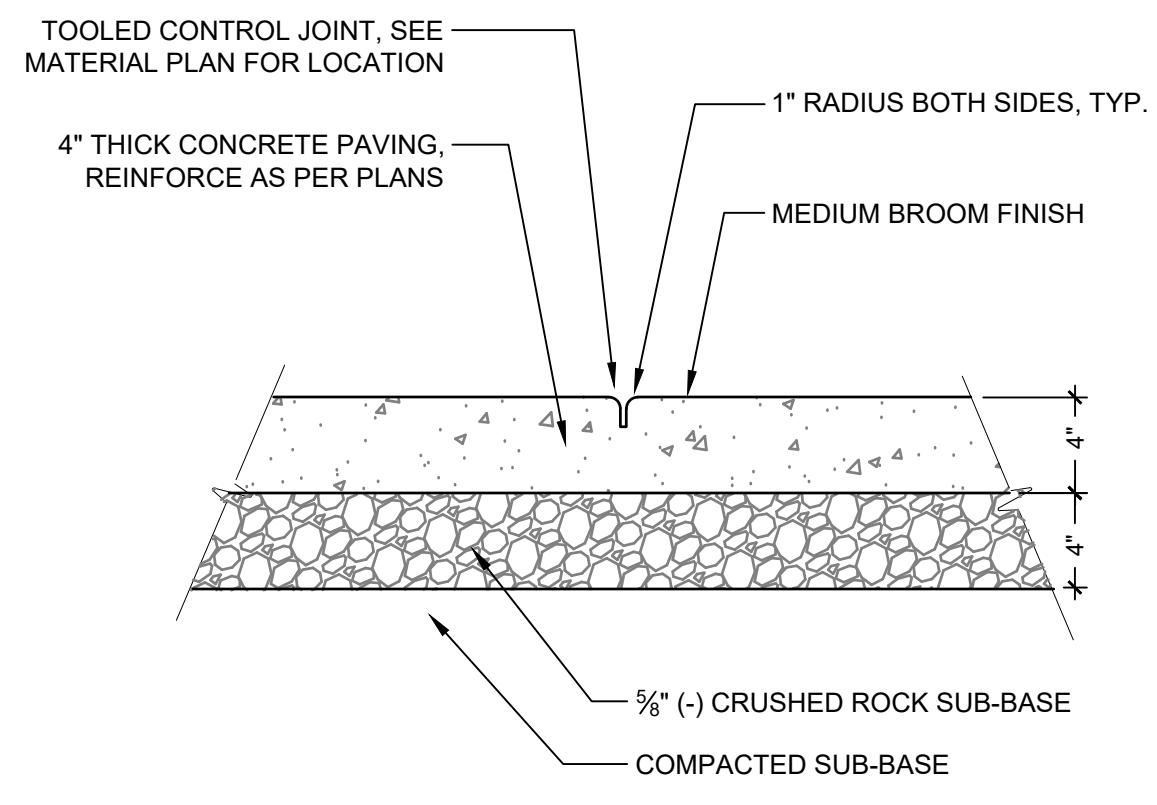
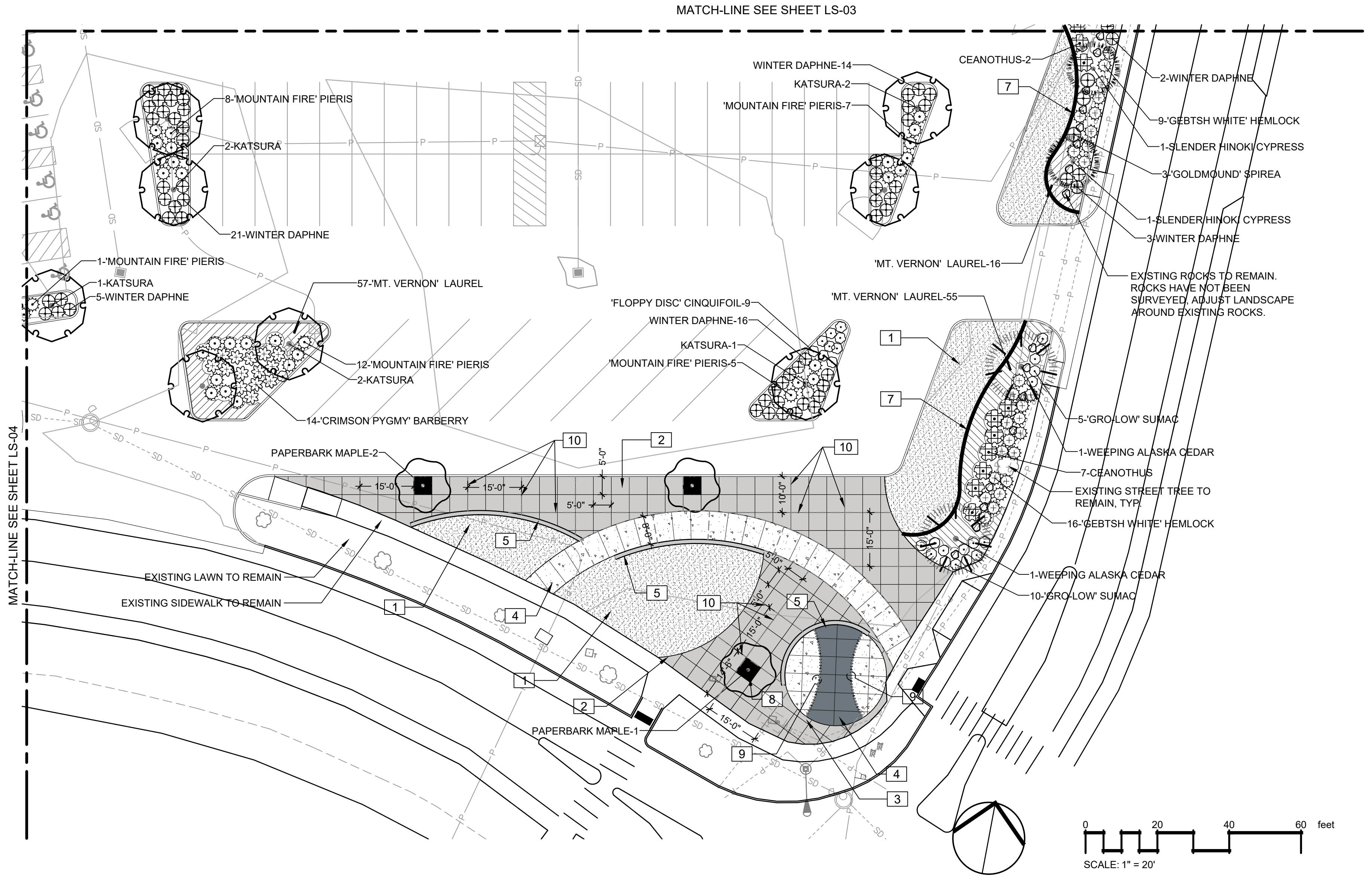
TREES	BOTANICAL / COMMON NAME	SIZE	DESC.
3	ACER GRISEUM PAPERBARK MAPLE	2" CAL., B&B/ CONT.	8'-10' HT.
8	CERCIDIPHYLLUM JAPONICUM KATSURA	2" CAL., B&B/ CONT.	12'-14' HT., BRANCHING HT. 5'
2	CHAMAECYPARIS NOOTKATENSIS 'PENDULA' WEeping ALASKA CEDAR	8' HT. MIN.	B&B/ CONT.
2	CHAMAECYPARIS OBTUSA 'GRACILIS' SLENDER HINOKI CYPRESS	8' HT. MIN.	B&B/ CONT.

SHRUBS	BOTANICAL / COMMON NAME	SIZE	SPACING
14	BERBERIS THUNBERGII 'CRIMSON PYGMY' 'CRIMSON PYGMY' BARBERRY	2 GAL	3.5' O.C.
9	CEANOTHUS X 'JULIA PHELPS' CEANOTHUS	5 GAL	6' O.C.
61	DAPHNE ODORA WINTER DAPHNE	2 GAL	3.5' O.C.
33	PIERIS JAPONICA 'MOUNTAIN FIRE' 'MOUNTAIN FIRE' PIERIS	5 GAL	4' O.C.
10	POTENTILLA FRUTICOSA 'FLOPPY DISC' 'FLOPPY DISC' CINQUIFOIL	1 GAL	3' O.C.
16	RHUS AROMATICA 'GRO-LOW' 'GRO-LOW' SUMAC	5 GAL	3' O.C.
3	SPIRAEA JAPONICA 'GOLDMOUND' 'GOLDMOUND' SPIREA	3 GAL	4' O.C.
25	TSUGA CANADENSIS 'GENTSH WHITE' 'GEBTSH WHITE' HEMLOCK	5 GAL	4' O.C.

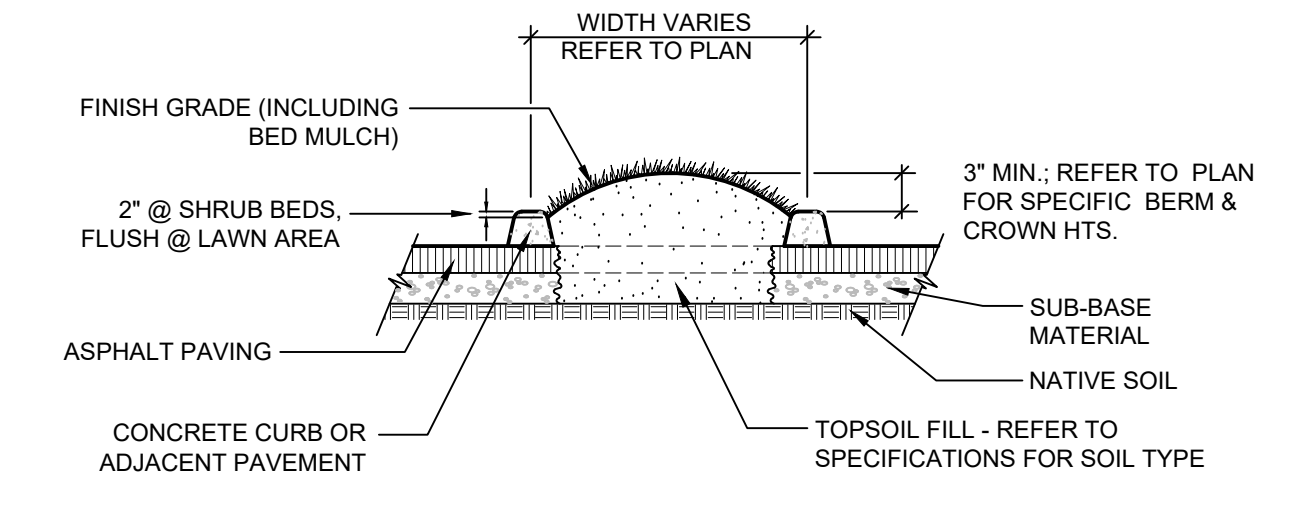
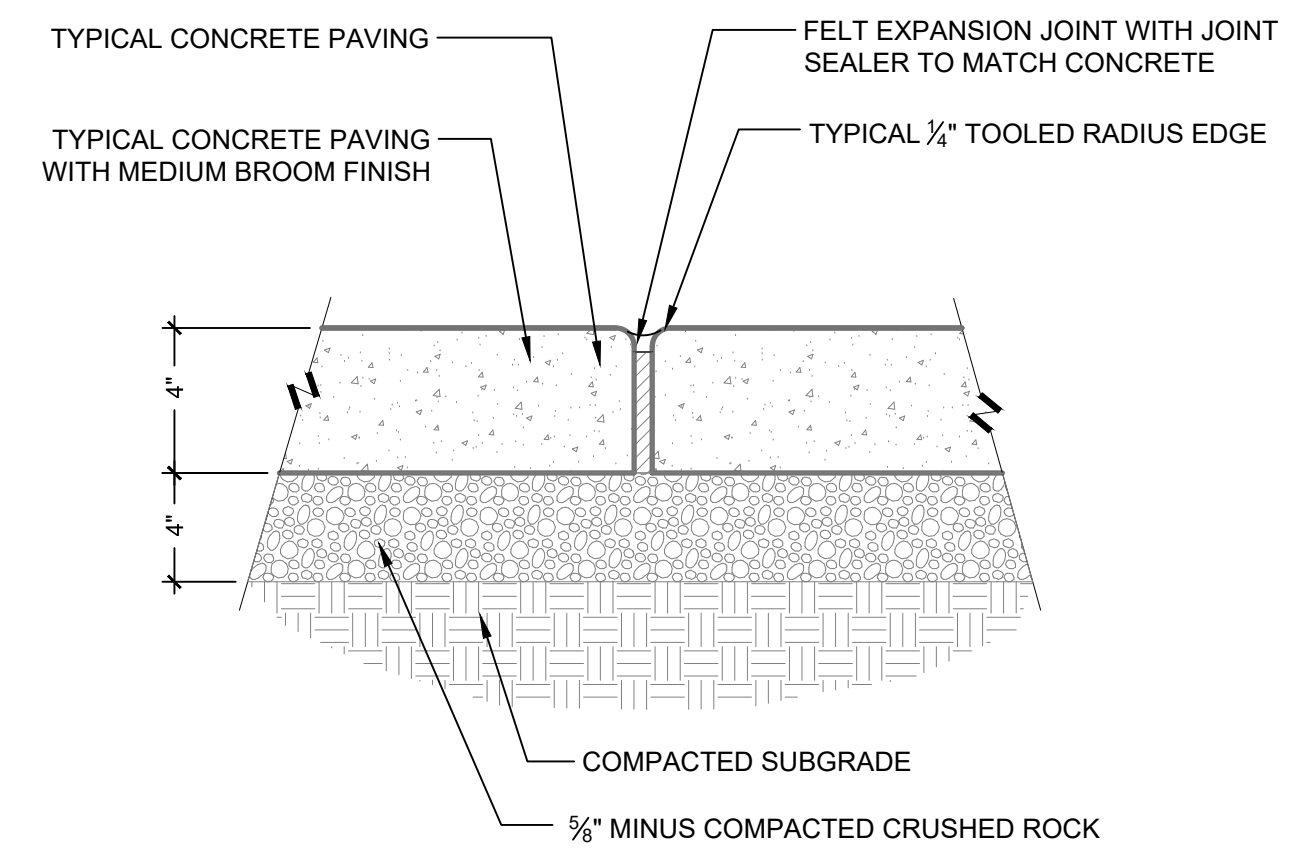
GROUND COVERS	BOTANICAL / COMMON NAME	SIZE	SPACING
132	PRUNUS LAUROCERASUS 'MOUNT VERNON' 'MT. VERNON' LAUREL	1 GAL	2-1/2' O.C.

**REFERENCE NOTES SCHEDULE LS-04**

SYMBOL	DESCRIPTION	DETAIL
	1 HYDROSEED STANDARD LAWN MIX, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION	
	2 COLORED & STAMPED CONCRETE UTILIZING MEDIUM GRAY COLOR WITH CHARGREEN RELEASE AGENT WITH SAND BLAST FINISH. TOOLED CONTROL JOINTS AS NOTED IN DETAIL.	
	3 COLORED CONCRETE WITH BOMANITE - COBBLESTONE GRAY (OR APPROVED EQUAL), WITH 5' O.C. TOOLED SCORING - SEE CIVIL PLANS FOR CONCRETE DETAILS.	
	4 STANDARD CONCRETE	
	5 PLAZA SEAT WALL	5/LS-05
	7 6" MOW STRIP	9/LS-05
	8 5' X 5' KIVA TREE GRATE AS AVAILABLE FROM URBAN ACCESSORIES (PH: 877-487-0488) OR APPROVED EQUAL	6/LS-05
	9 BASEBALL STITCHING - CLAY BRICKS SET ON IN WITH RED EPOXY OVER EXPANSION JOINT	8/LS-05
	10 CAULKED EXPANSION JOINT - AT 15' O.C. OR AS SHOWN	2/LS-04
	11 TOOLED CONTROL JOINT, SEE DETAIL FOR ADDITIONAL INFORMATION.	1/LS-04



NOTE: CONTROL JOINTS AS SHOWN ON PLANS. IF NOT INDICATED ON PLANS LOCATE AT 5'-0" O.C. - VERIFY WITH LANDSCAPE ARCHITECT



NOTE: GENERAL CONTRACTOR SHALL REMOVE EXCESS ASPHALT PAVEMENT AND SUB-BASE MATERIAL DOWN TO NATIVE SOIL.

**1 CONTROL JOINT IN CONCRETE PAVING**  
1" = 1" P-PU-RAC-30

**2 CAULKED CONSTRUCTION JOINT**  
NTS P-PU-RAC-31

**3 PARKING ISLAND PLANTER DETAIL**  
NTS P-PU-RAC-32

Mr. 01, 2023 1:37:53pm User: jacob.mitchell  
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BY	DATE	REVISIONS

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CONSULTING SERVICES  
8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516  
P: 360.352.1465 F: 360.352.1509  
SCJALLIANCE.COM

SHEET TITLE: **SOUTHEAST LANDSCAPE PLAN**  
PROJECT NAME: **RAC PARKING LOT EXPANSION**  
8345 STEILACOOM RD SE  
LACEY, WA



DESIGNER:	T. GRANTHAM
DRAWN BY:	T. GRANTHAM
APPROVED BY:	J. GLANDER
DATE:	MARCH 1, 2023
JOB NO.:	22-000313
DRAWING FILE NO.:	22-000313 X-LS
DRAWING NO.:	LS-04
SHEET NO.:	28 OF 44

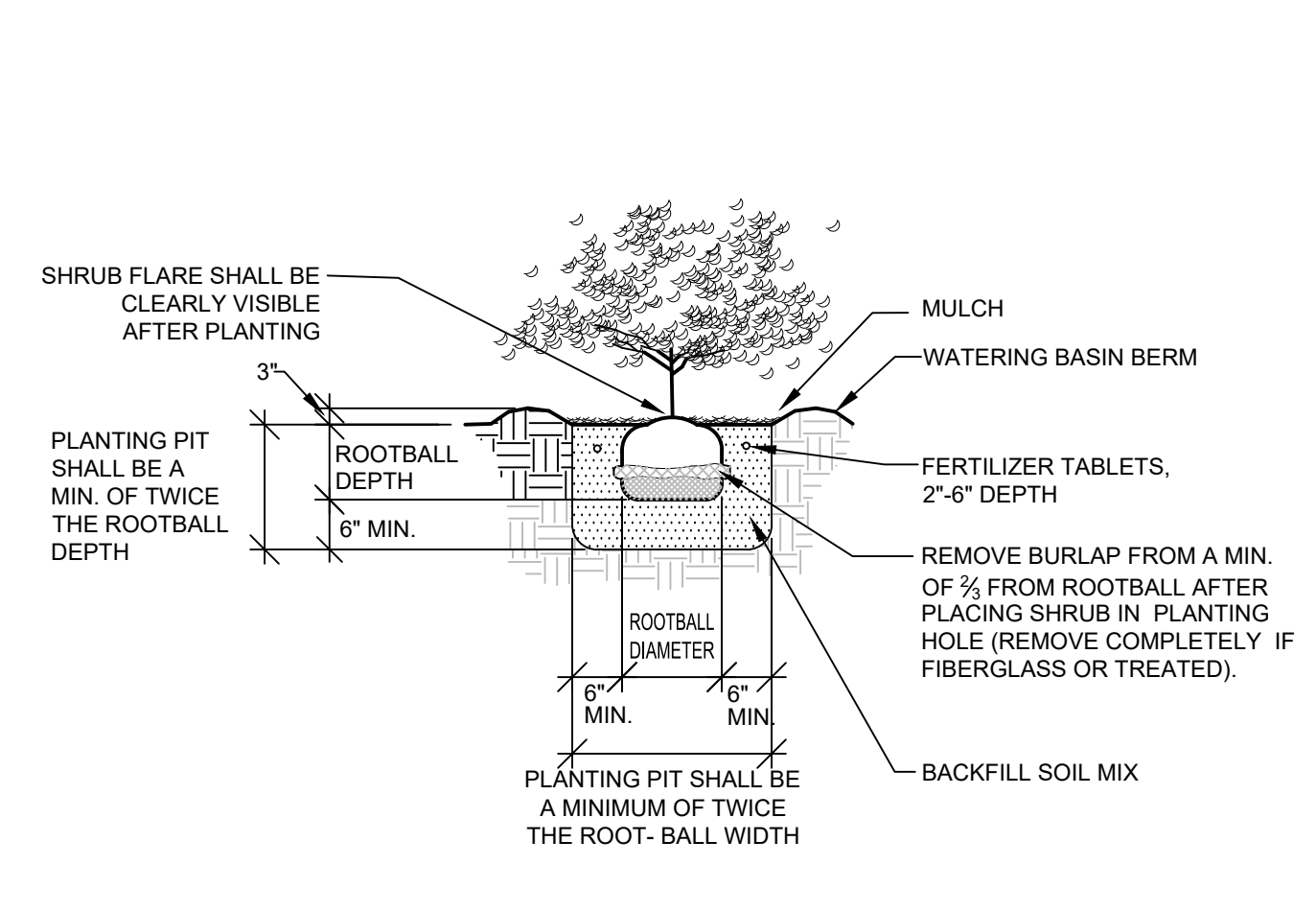


**LANDSCAPE SPECIFICATIONS**

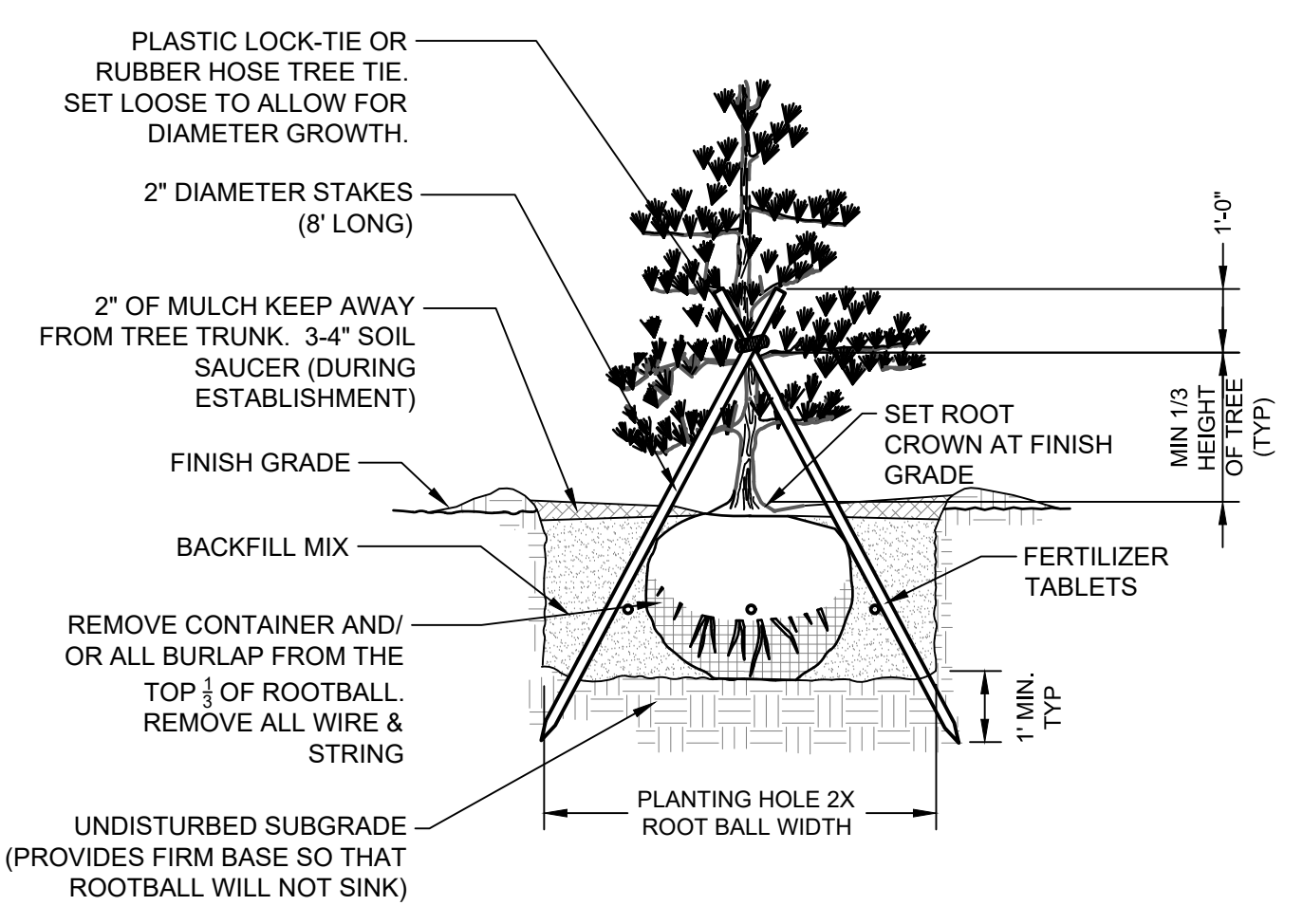
- REFER TO DETAILS FOR ADDITIONAL INFORMATION.
- CHEMICALLY KILL AND REMOVE FROM SITE ALL EXISTING WEEDS AND VEGETATION NOT SHOWN TO REMAIN ON PLANS.
- DISTRIBUTE IMPORTED SANDY LOAM TOPSOIL (APPROVED BY THE LANDSCAPE ARCHITECT) IN AREAS SHOWN AND AT DEPTHS INDICATED FOR CROWNING AND BERMING OF LANDSCAPE AREAS, AND BACKFILL OF RETAINING WALLS (IF REQUIRED). DOTTED LINES INDICATE 1' CONTOUR INTERVALS. ALL LANDSCAPE AREAS SHALL RECEIVE TOPSOIL, WHETHER INDICATED ON PLANS OR NOT, SO THAT FINISH GRADES OF ALL SHRUB BEDS SHALL BE 2" BELOW TOPS OF ADJACENT CURBS AND PAVEMENT, AND LAWN AREAS SHALL BE 1/2" BELOW TOPS OF ADJACENT CURBS AND PAVEMENT. STRUCTURAL FILL AREAS: ANY LANDSCAPE AREAS OCCURRING WITHIN STRUCTURAL FILL ZONES SHALL HAVE SAID STRUCTURAL FILL MATERIALS EXCAVATED TO A DEPTH OF 12" BELOW FINISH GRADES IN SHRUB AREAS AND 6" BELOW GRADE IN LAWN AREAS, AND REPLACED WITH SPECIFIED TOPSOIL. DISPOSE OF EXCAVATED MATERIAL OFF SITE.
- FINE GRADE ALL LANDSCAPE BEDS PRIOR TO PLANTING OPERATIONS.
- NO PLANT SUBSTITUTIONS SHALL BE PERMITTED WITHOUT PRIOR APPROVAL OF LANDSCAPE ARCHITECT/OWNER.
- ALL PLANTS SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK.
- ALL PLANT MATERIALS AND PLANT LOCATIONS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- ROOT BARRIER SHALL BE INCORPORATED ADJACENT AND PARALLEL TO PAVING, CURB AND SIDEWALK, A MINIMUM OF 15 LINEAR FEET (7.5' ON EITHER SIDE OF TRUNK), 24" DEEP, WHERE ANY TREE IS WITHIN 8' OF PAVING, CURB OR SIDEWALK. ROOT BARRIER SHALL BE DEEPROOT UB-24 AS AVAILABLE FROM EWING IRRIGATION PRODUCTS, 2901 S TACOMA WAY, TACOMA, WA 98409 (253) 476-9530 OR APPROVED EQUAL.
- SOIL AMENDMENT FOR SOIL PREPARATION AND PLANTING BACKFILL SHALL BE A SCREENED 5/8" MINUS NITRIFIED WOOD RESIDUAL COMPOST EQUAL TO:
  - "SILVER SPRINGS TOP GRADE COMPOST" BRAND COMPOST AS AVAILABLE FROM CORLISS RESOURCES LAKE TAPPS, WA (253) 279-9102.
  - "CEDAR GROVE COMPOST" BRAND COMPOST AS AVAILABLE FROM CEDAR GROVE COMPOST, MAPLE VALLEY, WA (877) 764-5748.
  - PREP/LRI COMPOST AS AVAILABLE FROM RANDELS SAND AND GRAVEL, INC., PUYALLUP, WA (253) 537-6828.
- SOIL PREPARATION - (ALL LANDSCAPE AREAS). SPREAD 9 C.Y. OF SPECIFIED SOIL AMENDMENT PER 1000 S.F. (APPROX. 3" DEPTH) OF AREA. SPREAD 100 LBS./1000 S.F. OF DOLOMITE LIME (IN LAWN AREAS ONLY), 150 LBS./1000 S.F. OF AGRICULTURAL GYPSUM AND 15 LBS./1000 S.F. OF 16-8-8 COMMERCIAL FERTILIZER OVER SOIL AMENDMENT. ROTO-TILL ALL OF THE ABOVE TO A 6"-8" DEPTH AND GRADE SMOOTH, COMPACTING AS REQUIRED AND REMOVING ALL ROCKS, CLODS AND DEBRIS.
- LAWN AREAS (SEED OR SOD REFER TO PLANS) SHALL CONSIST OF ONE OF THE FOLLOWING TURF TYPES:
 

60% TURF-TYPE PERENNIAL RYE GRASS VARIETIES	60% TURF-TYPE PERENNIAL RYE GRASS VARIETIES
20% BLUEGRASS	40% TURF-TYPE FESCUE
20% HARD FESCUE	
- SEED AND SOD SHALL BE EQUAL TO THAT AS GROWN BY COUNTRY GREEN TURF FARMS: OLYMPIA, WA OR JB INSTANT LAWN, REDMOND, WA. SEED SHALL BE APPLIED AT 7 LBS./1000 S.F. AND INCLUDE 10 LBS./1000 S.F. OF UNITED HORTICULTURE 15-5-10 FERTILIZER IN ALL LAWN AREAS.
- ALL TREES IN LAWN AREAS SHALL BE PLANTED IN A 3' DIAMETER CIRCLE OF BED MULCH.
 

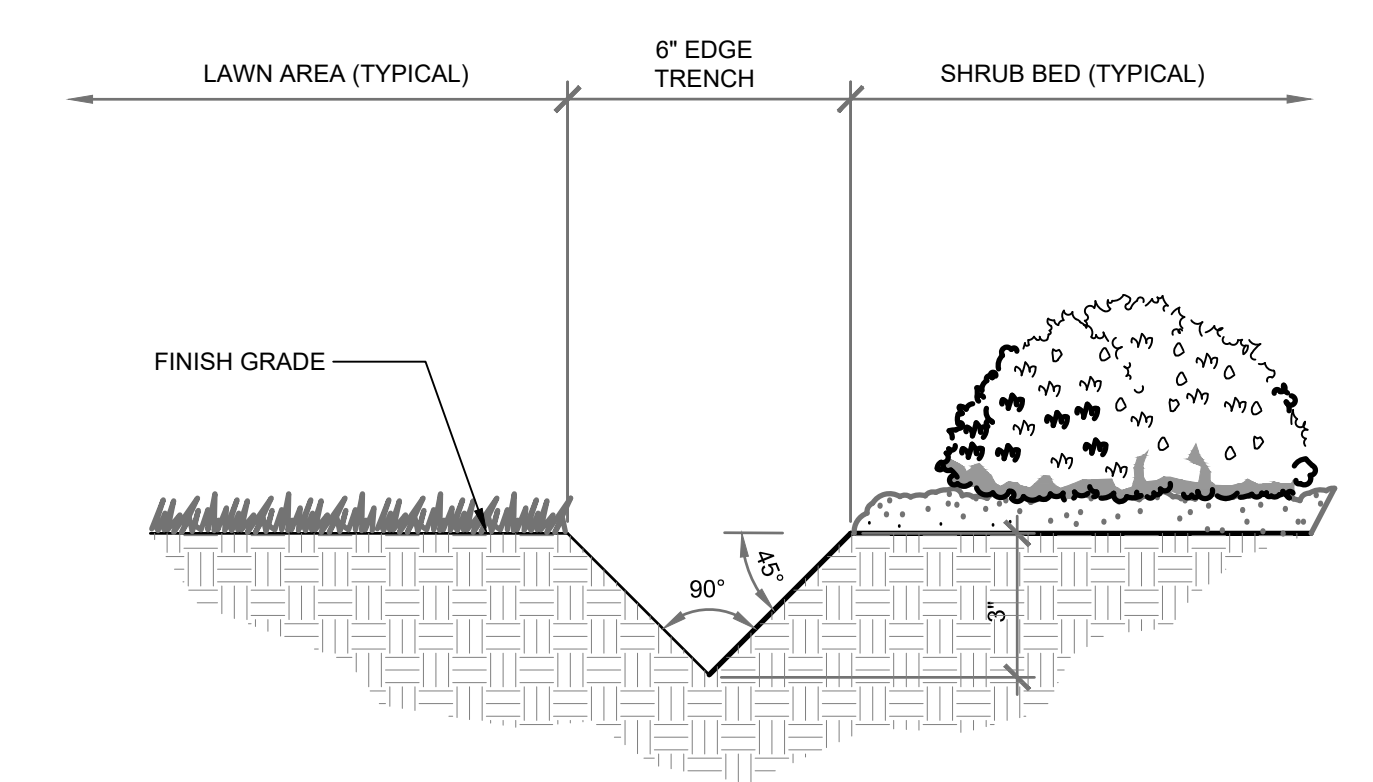
TREES OVER 10' HEIGHT	2 CUPS	TREES UNDER 10' HEIGHT:	1 CUP
ALL SHRUBS EXCEPT 1 GALLONS:	1/2 CUP	1 GALLON PLANTS:	1/4 CUP
GROUND COVERS:	1/4 CUP		
- FERTILIZER TABLETS FOR ALL PLANTS SHALL BE AGRIFORM (20-10-5) 21 GRAM OR 10 GRAM TABLETS DISTRIBUTED AS FOLLOWS: ALL TREES: 4-21 GRAM TABLETS, ALL SHRUBS (EXCEPT 1 GALLONS): 3-21 GRAM TABLETS, ALL 1 GALLONS: 1-21 GRAM TABLET, ALL 2-1/4" AND 4" POT GROUND COVERS: 1-10 GRAM TABLET EACH. SET TABLETS DIRECTLY NEXT TO ROOTBALL.
- ALL SHRUB AND GROUND COVER BEDS SHALL RECEIVE A 2" DEPTH (6 C.Y. PER 1000 S.F.) OF "FINE GRIND" HEM/FIR BARK MULCH AS TOP DRESSING.
- APPLY A GRANULAR PRE-EMERGENT HERBICIDE TO ALL SHRUB AND GROUND COVER BEDS AT THE CONCLUSION OF THE MAINTENANCE PERIOD. DO NOT USE CASARON OR NORASAC BRANDS.
- ALL WORK SHALL BE PERFORMED TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT/OWNER.
- ALL PLANTS SHALL BE GUARANTEED FOR ONE FULL YEAR FROM DATE OF PROJECT ACCEPTANCE. ALL REPLACED PLANTS SHALL BE RE-GUARANTEED. ALL REPLACEMENTS SHALL BE MADE WITHIN 21 DAYS OF RECEIVING WRITTEN NOTICE FROM THE OWNER. CONTRACTOR SHALL NOT BE RESPONSIBLE FOR PLANTS DYING DUE TO OWNER NEGLECT OR VANDALISM, AFTER THE MAINTENANCE PERIOD.
- PLANT LIST QUANTITIES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES IN LIST WITH ACTUAL PLAN CALL-OUTS, AND INSTALLING PLANTINGS PER THE LANDSCAPE PLAN. GROUND COVER AND/OR MASS SHRUB QUANTITIES SHALL BE ADJUSTED AS REQUIRED FOR FIELD CONDITIONS AT THE SPECIFIED SPACING.
- FINAL INSPECTION SHALL OCCUR AT THE CONCLUSION OF A 60-DAY MAINTENANCE & PLANT ESTABLISHMENT PERIOD. MAINTENANCE PERIOD SHALL COMMENCE UPON COMPLETION OF ALL LANDSCAPE INSTALLATION ACTIVITIES AND SHALL INCLUDE THE FOLLOWING:
  - MOW LAWNS ONCE PER WEEK.
  - REMOVE ALL WEEDS OVER 1" IN HEIGHT.
  - REPLACE DEAD OR UNHEALTHY PLANTS.
  - ENSURE PROPER FUNCTION OF IRRIGATION SYSTEM.
  - ENSURE ADEQUATE MOISTURE IS DELIVERED TO ALL LANDSCAPE BEDS INCLUDING NON-IRRIGATED AREAS.
  - FERTILIZE ALL LAWNS AT CONCLUSION OF MAINTENANCE AND PLANT ESTABLISHMENT PERIOD.



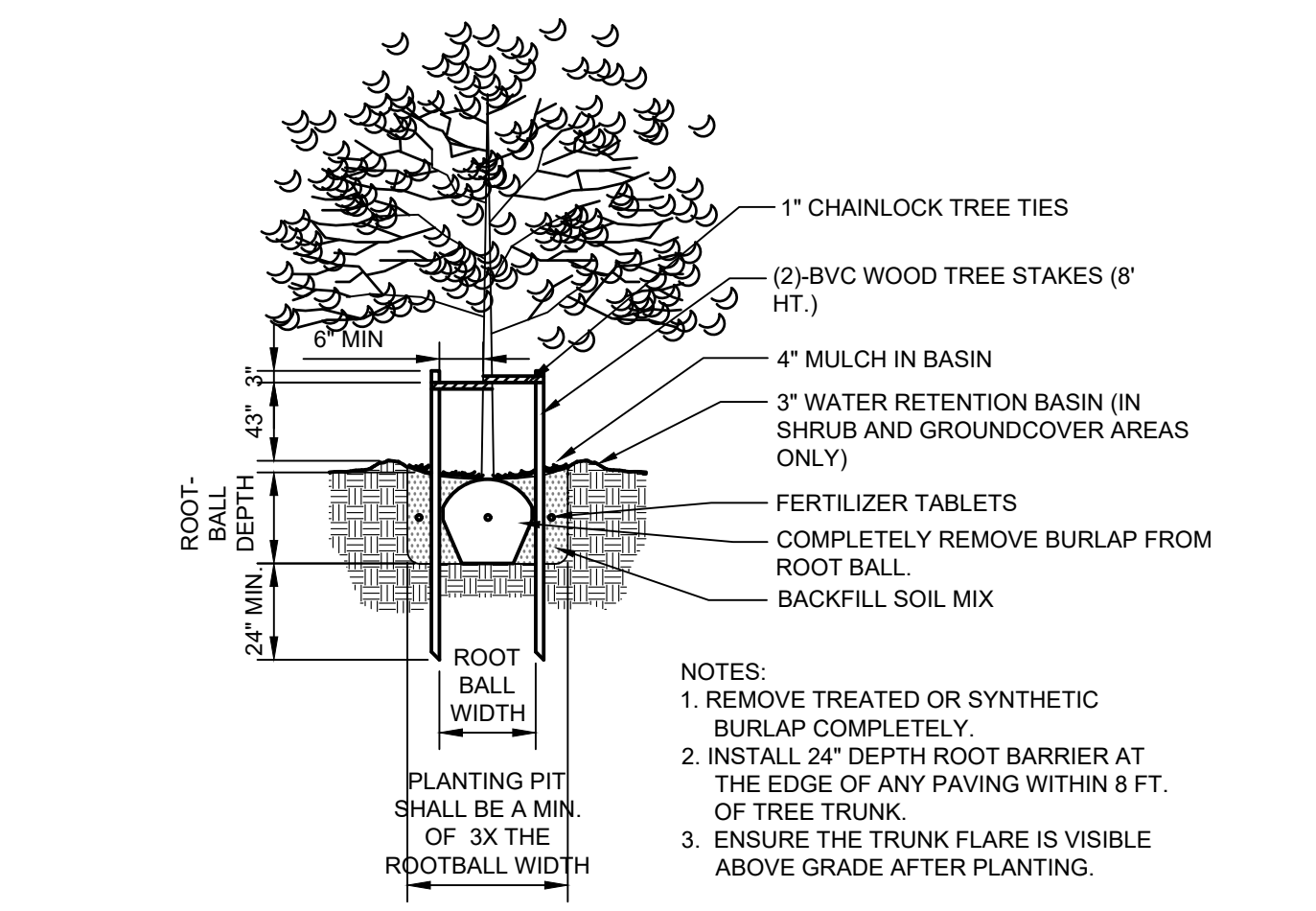
**1 SHRUB PLANTING DETAIL (B&B OR CONT.)**  
 NTS P-PU-RAC-15



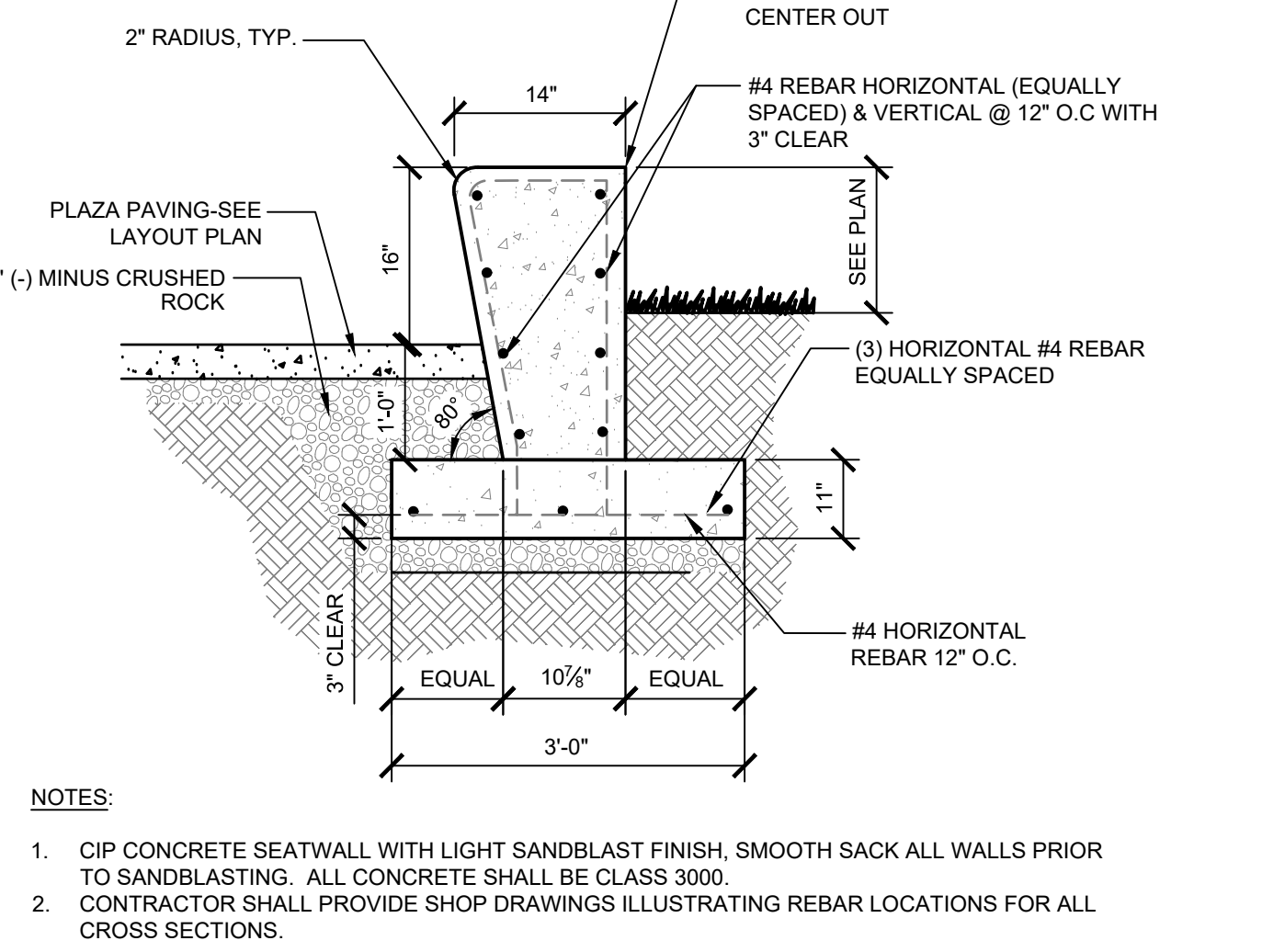
**4 EVERGREEN TREE PLANTING DETAIL**  
 3/4" = 1'-0" P-PU-RAC-19



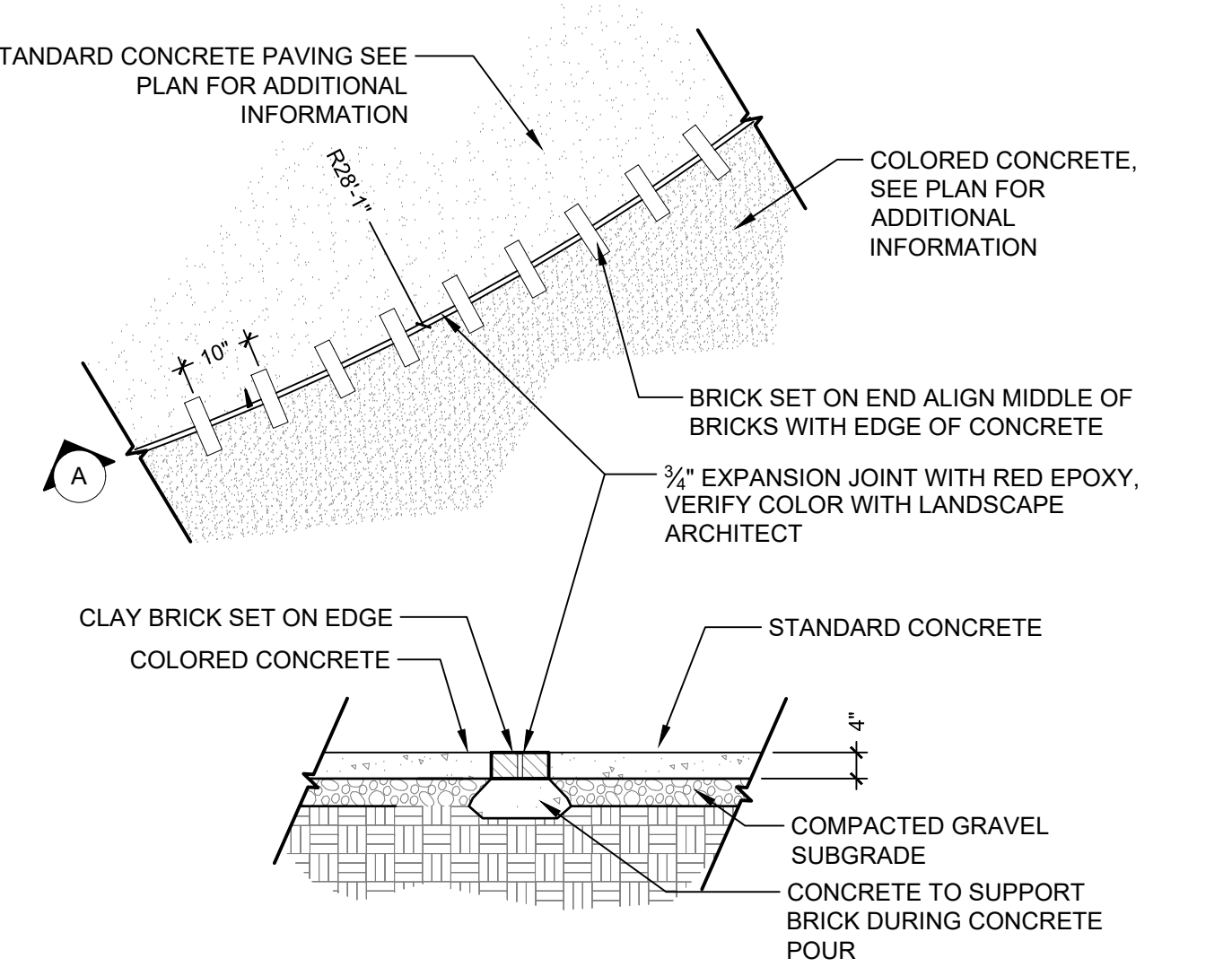
**7 LAWN EDGE DETAIL**  
 3" = 1'-0" P-PU-RAC-26



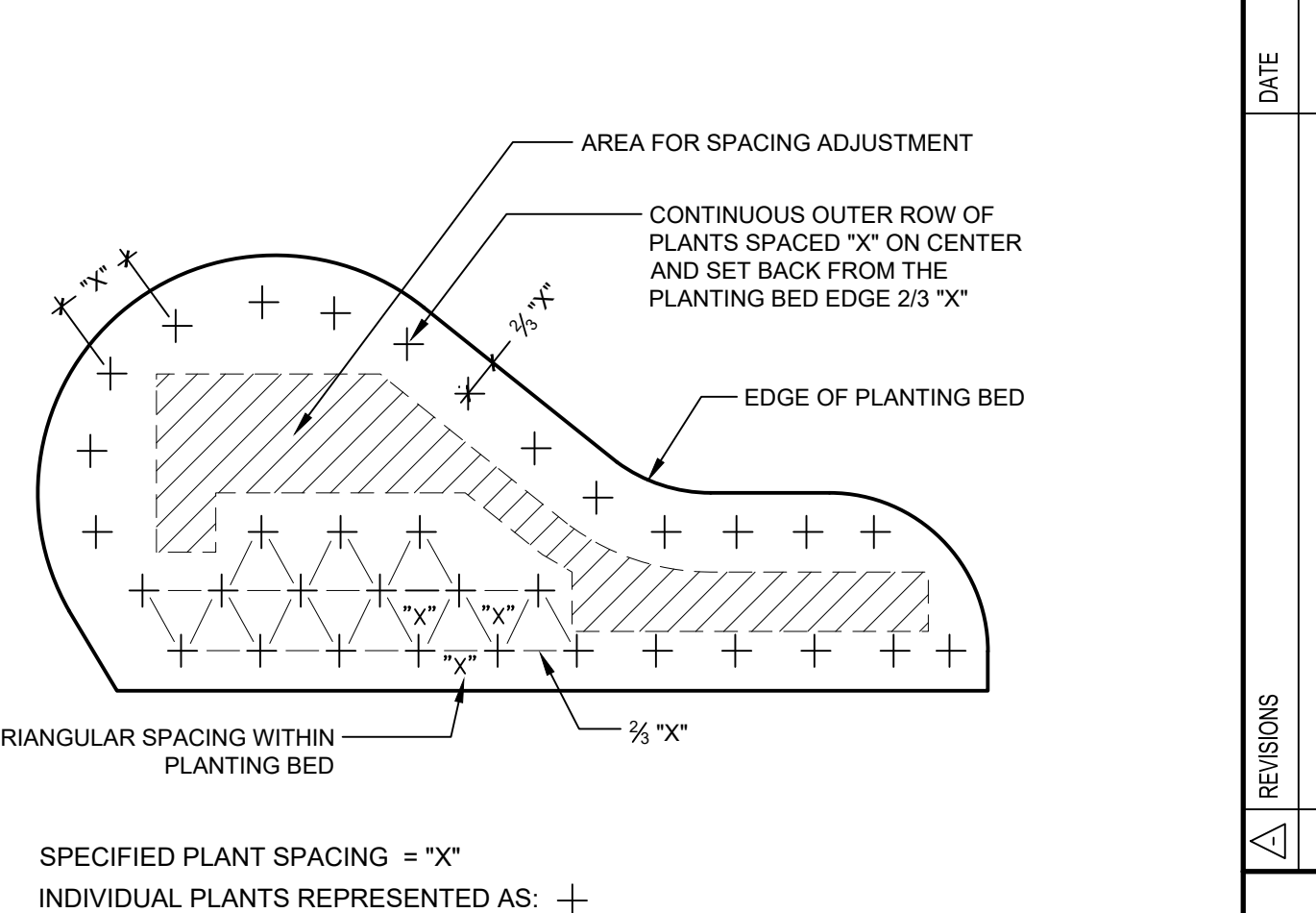
**2 TREE PLANTING & STAKING DETAIL**  
 N.T.S. P-PU-RAC-17



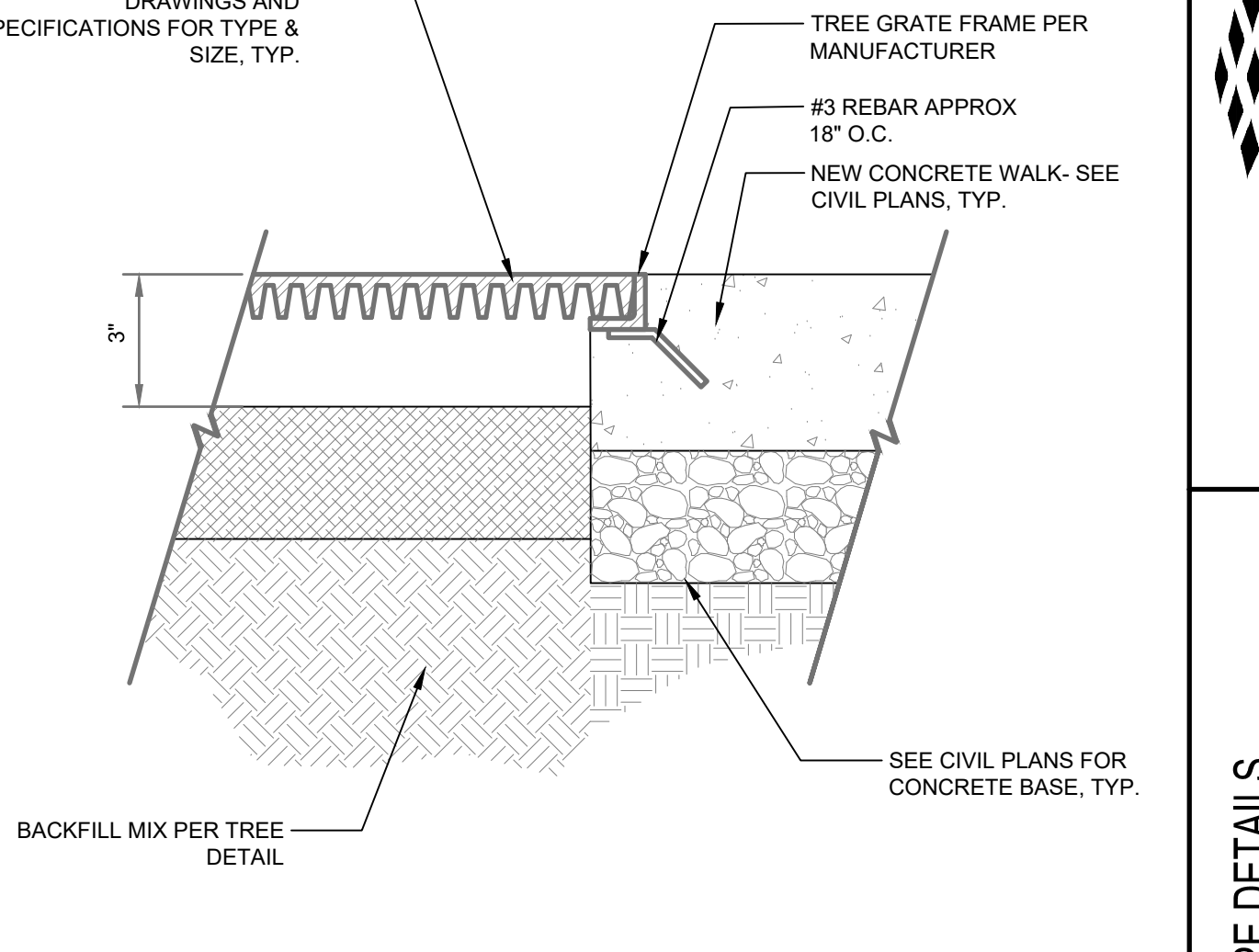
**5 PLAZA SEAT WALL**  
 N.T.S. P-PU-RAC-24



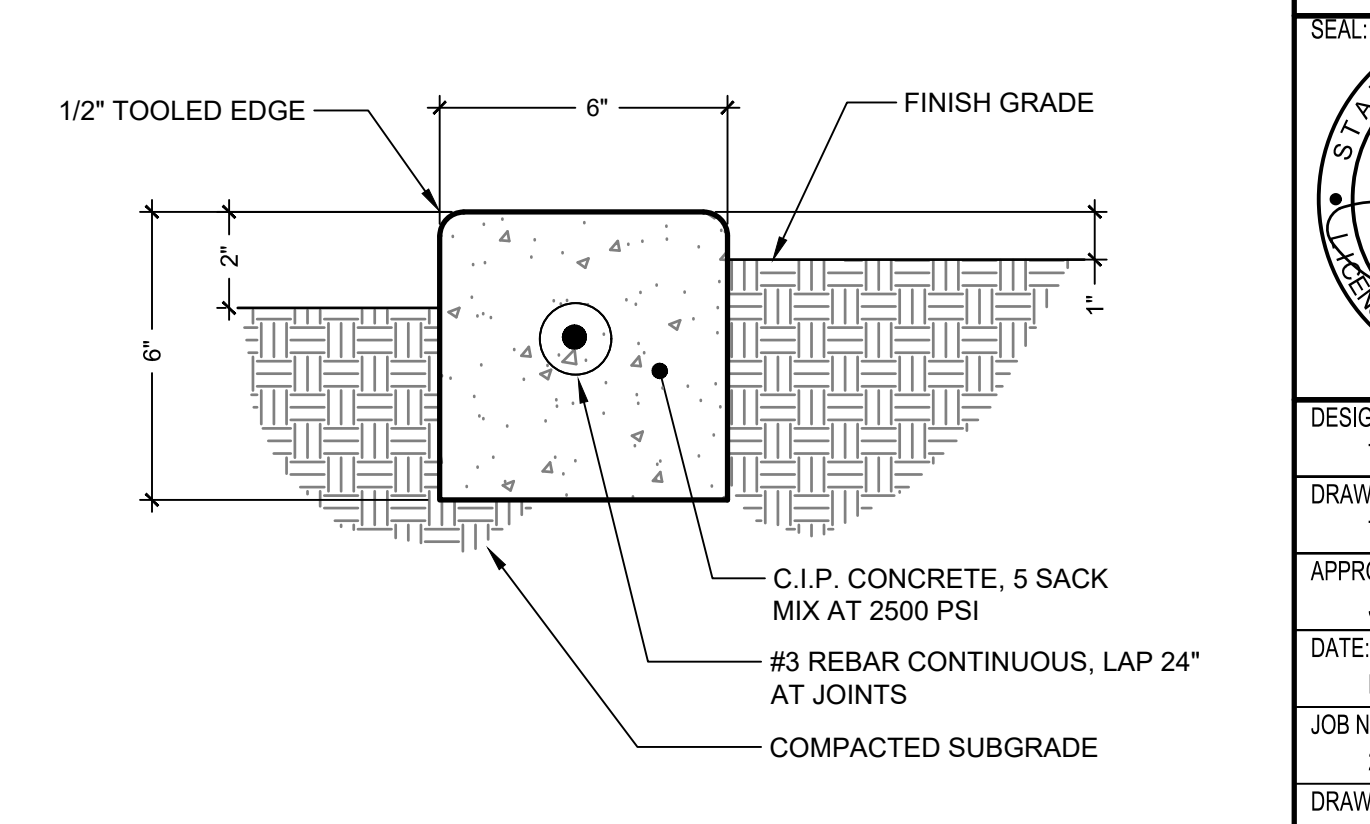
**8 INLAID CLAY PAVER (BASEBALL STITCHING)**  
 1/2" = 1'-0" P-PU-RAC-27



**3 PLANT SPACING DETAIL**  
 NTS P-PU-RAC-10



**6 TREE GRATE DETAIL**  
 3" = 1'-0" P-PU-RAC-23



**9 6\"/>**

Mr. 01, 2023, 1:37:55pm - User: jacob.mechly  
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BY	
DATE	
REVISIONS	

**SCJ ALLIANCE**  
 CONSULTING SERVICES  
 8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516  
 P: 360.352.1465 F: 360.352.1509  
 SCJALLIANCE.COM

**LANDSCAPE DETAILS**

RAC PARKING LOT EXPANSION  
 8345 STEILACOOM RD SE  
 LACEY, WA

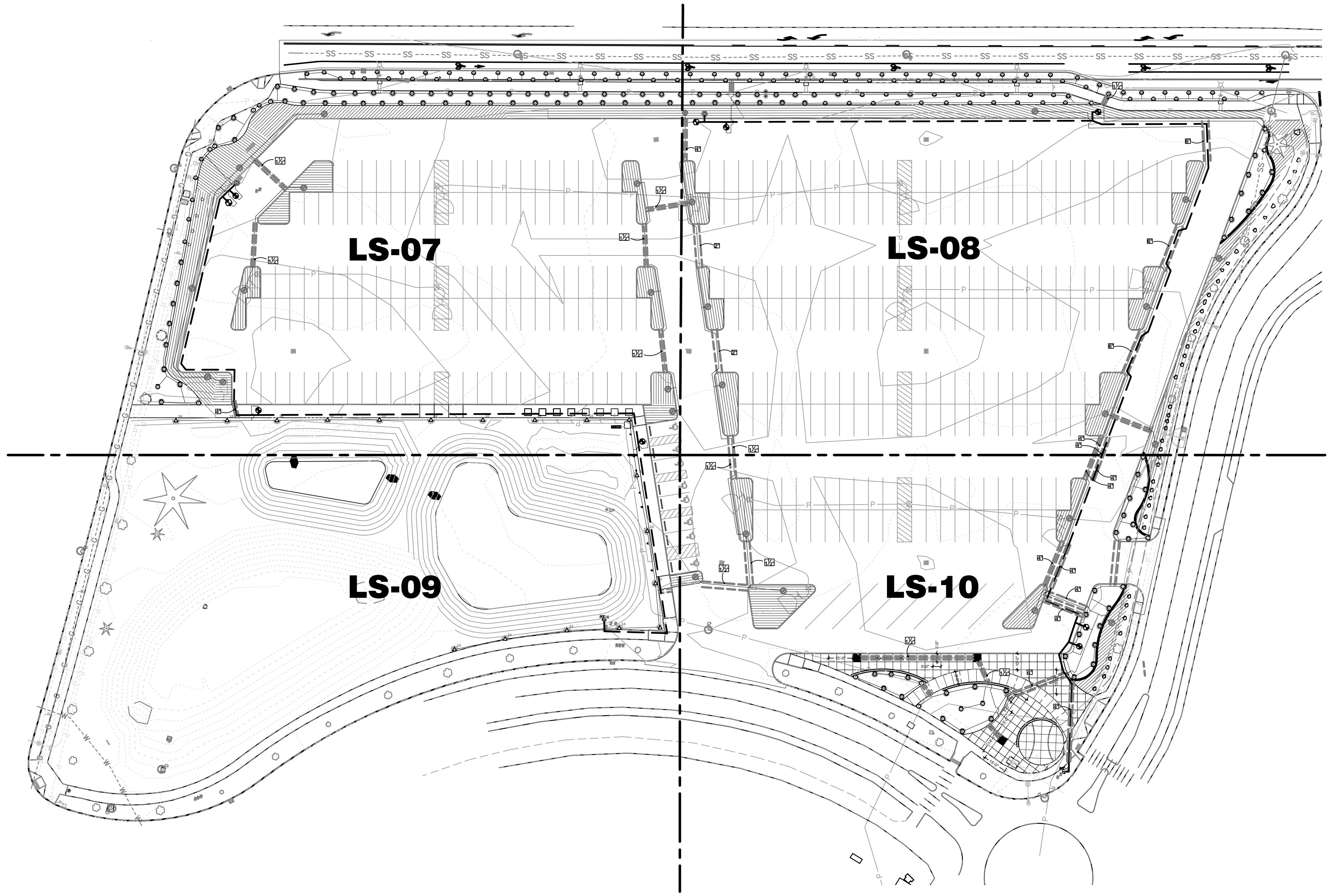
PROJECT NAME

SEAL: STATE OF WASHINGTON  
 JEFFREY B. GLANDER  
 LICENSED LANDSCAPE ARCHITECT  
 405 EXP 02/08/25  
 03/01/2023

DESIGNER: T. GRANTHAM  
 DRAWN BY: T. GRANTHAM  
 APPROVED BY: J. GLANDER  
 DATE: MARCH 1, 2023  
 JOB NO: 22-000313  
 DRAWING FILE NO: 22-000313 X-LS  
 DRAWING NO: LS-05  
 SHEET NO: 29 OF 44



IRRIGATION SCHEDULE			
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
Ⓢ	HUNTER MP CORNER PROS-04-PRS40-CV TURF ROTATOR, 4IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE. T=TURQUOISE ADJ ARC 45-105 ON PRS40 BODY.	40	3/LS-11
Ⓢ LST SST RST	HUNTER MP STRIP PROS-04-PRS40-CV TURF ROTATOR, 4IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. LST=IVORY LEFT STRIP, SST=BROWN SIDE STRIP, RST=COPPER RIGHT STRIP.	45	3/LS-11
Ⓢ M L O	HUNTER MP1000 PROS-04-PRS40-CV TURF ROTATOR, 4IN. POP-UP WITH CHECK VALVE, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.	40	3/LS-11
Ⓢ K G R	HUNTER MP2000 PROS-04-PRS40-CV TURF ROTATOR, 4IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360 ARC.	40	3/LS-11
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
△ <sup>1.5</sup>	HUNTER I-20-06 1.5 TURF ROTOR, 6IN. POP-UP, ADJUSTABLE AND FULL CIRCLE. PLASTIC RISER. DRAIN CHECK VALVE. STANDARD NOZZLE.	35	4/LS-11
△ <sup>3.0</sup>	HUNTER I-20-06 3.0 TURF ROTOR, 6IN. POP-UP, ADJUSTABLE AND FULL CIRCLE. PLASTIC RISER. DRAIN CHECK VALVE. STANDARD NOZZLE.	35	4/LS-11
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
Ⓢ	PIPE TRANSITION POINT PIPE TRANSITION POINT FROM PVC LATERAL TO DRIP TUBING WITH RISER TO INSTALLATION 2" BELOW TOPSOIL FINISH GRADE.		5/LS-11
Ⓢ	DOUBLE DRIP RING 2 DRIP RINGS USING 12" EMITTER SPACING @ 0.53 GPH. FIRST RING SHALL BE 12 INCHES FROM TRUNK SECOND RING SHALL BE 30" FROM TRUNK.	30	/
Ⓢ	AREA TO RECEIVE DRIPLINE NETAFIM TLCV-06-18 TECHLINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH CHECK VALVE. 0.6 GPH EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. 17MM.	30	7/LS-11
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION		DETAIL
Ⓢ	WEATHERMATIC MAX-DW PLASTIC REMOTE CONTROL VALVE, 1IN., 1-1/2IN., 2IN. SIZE AS NOTED.		1/LS-11
Ⓢ	WEATHERMATIC MAX-DW-XPR DFXX-140 PLASTIC REMOTE CONTROL VALVE WITH PRESSURE REGULATOR, AND NETAFIM 140 MESH DISK FILTER, MATCH VALVE SIZE. 1IN., 1-1/2IN., 2IN. SIZE AS NOTED. FOR USE AS A DRIP ZONE CONTROL VALVE.		2/LS-11
Ⓢ	MANUAL DRAIN VALVE CHAMPION #200 3/4" ANGLE VALVE FOR MANUAL DRAIN ASSEMBLY WITH KEY EXTENSION		3/LS-11
POC-1 Ⓢ	POINT OF CONNECTION 3" IRRIGATION POC 1 AT TEE OFF EXISTING 3" MAINLINE "D", FIELD VERIFY LOCATION. VERIFY WITH OWNER'S REPRESENTATIVE PRIOR TO CONNECTION. VERIFY AND PRESERVE (2) EXISTING SPARE WIRES FOR USE, THIS INSTALLATION. 70N PSI EXISTING STATIC PRESSURE PER CITY OF LACEY REP.		
POC-2 Ⓢ	POINT OF CONNECTION 3" IRRIGATION POC 2 AT TEE OFF EXISTING 3" MAINLINE "A", FIELD VERIFY LOCATION. VERIFY WITH OWNER'S REPRESENTATIVE PRIOR TO CONNECTION. IRRIGATION POC 2 AT TEE OFF EXISTING 3" MAINLINE. FIELD VERIFY LOCATION. VERIFY WITH OWNER'S REPRESENTATIVE PRIOR TO CONNECTION. VERIFY AND PRESERVE (5) EXISTING SPARE WIRES FOR USE, THIS INSTALLATION. 70 PSI STATIC PRESSURE PER CITY OF LACEY REP.		
---	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21		
---	IRRIGATION MAINLINE: PVC SCHEDULE 40		
---	PIPE SLEEVE: PVC CLASS 200 SDR 21		



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BY	DATE	REVISIONS

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 CONSULTING SERVICES  
 8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516  
 P: 360.352.1465 F: 360.352.1509  
 SCJALLIANCE.COM

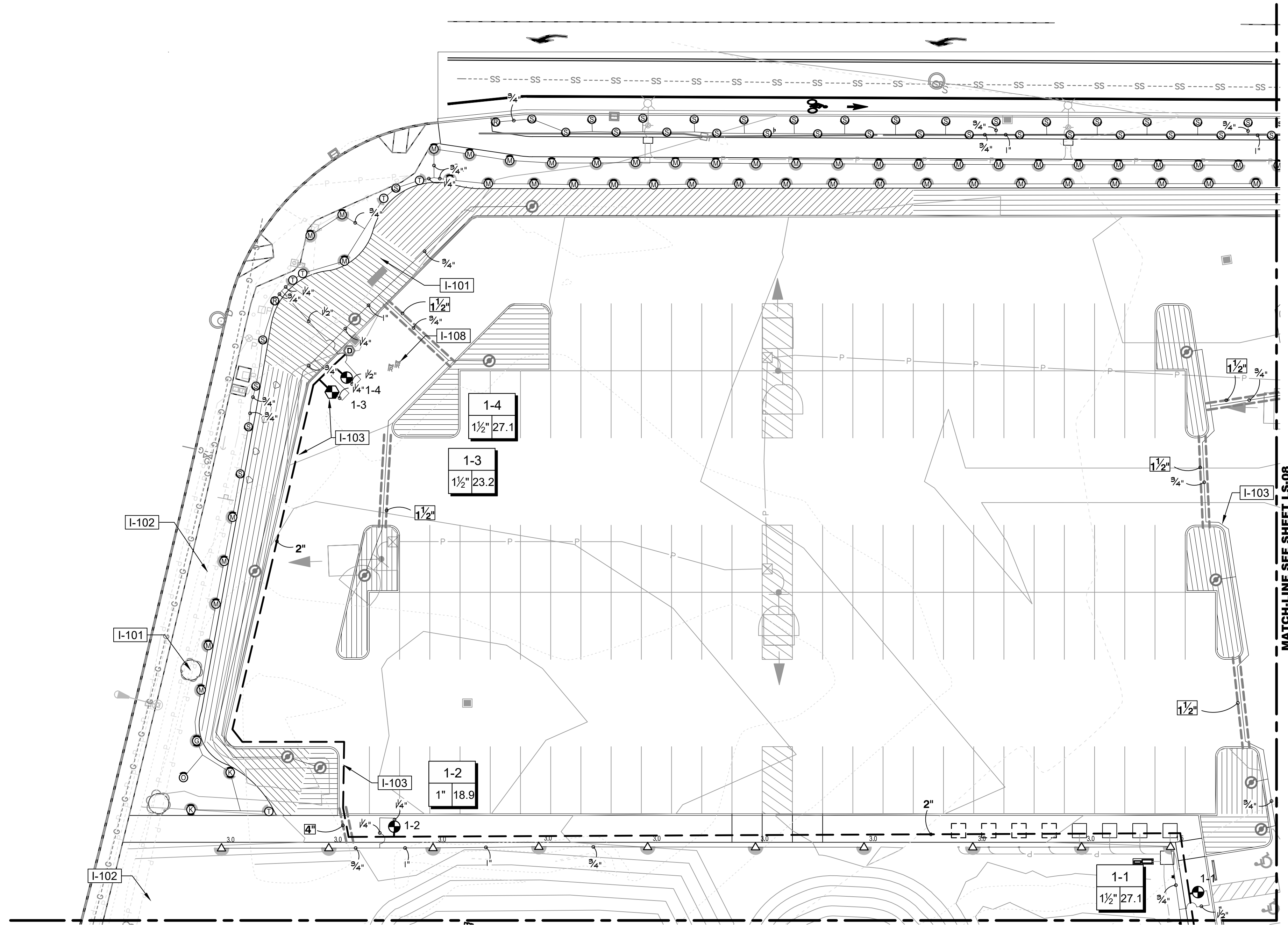
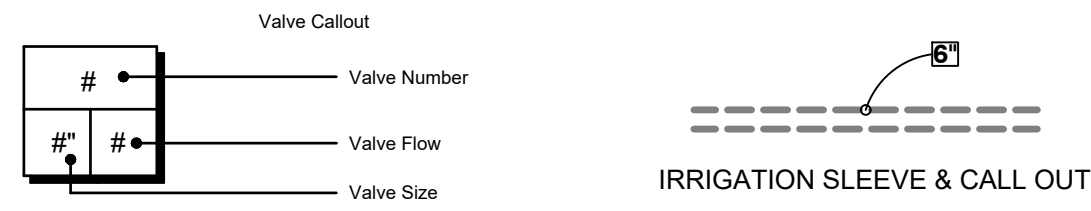
**OVERALL IRRIGATION PLAN**  
**RAC PARKING LOT EXPANSION**  
 8345 STEILACOOM RD SE  
 LACEY, WA

DESIGNER: J. MCFARLAND  
 DRAWN BY: J. MCFARLAND  
 APPROVED BY: J. GLANDER  
 DATE: MARCH 1, 2023  
 JOB NO: 22-000313  
 DRAWING FILE NO: 22-000313-XLS  
 DRAWING NO: **LS-06**  
 SHEET NO: 30 OF 44

Mr. 01\_0723 1:38:11pm User: jacob.mcmahon  
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IRRIGATION SCHEDULE LS-07		
SYMBOL	MANUFACTURER/MODEL	DETAIL
Ⓜ	HUNTER MP CORNER PROS-04-PRS40-CV	3/LS-11
Ⓜ Ⓜ Ⓜ LST SST RST	HUNTER MP STRIP PROS-04-PRS40-CV	3/LS-11
Ⓜ Ⓜ Ⓜ	HUNTER MP1000 PROS-04-PRS40-CV	3/LS-11
Ⓜ Ⓜ Ⓜ	HUNTER MP2000 PROS-04-PRS40-CV	3/LS-11
SYMBOL	MANUFACTURER/MODEL	DETAIL
△ <sup>1.5</sup>	HUNTER I-20-06 1.5	4/LS-11
△ <sup>3.0</sup>	HUNTER I-20-06 3.0	4/LS-11
SYMBOL	MANUFACTURER/MODEL	DETAIL
Ⓟ	PIPE TRANSITION POINT	5/LS-11
	AREA TO RECEIVE DRIPLINE NETAFIM TLCV-06-18	7/LS-11
SYMBOL	MANUFACTURER/MODEL	DETAIL
Ⓜ	WEATHERMATIC MAX-DW	1/LS-11
Ⓜ	WEATHERMATIC MAX-DW-XPR DFXX-140	2/LS-11
Ⓜ	MANUAL DRAIN VALVE	3/LS-11
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21	
	IRRIGATION MAINLINE: PVC SCHEDULE 40	
	PIPE SLEEVE: PVC CLASS 200 SDR 21	

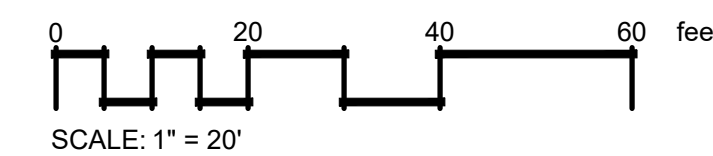
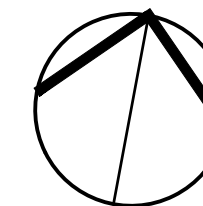


### IRRIGATION SHEET NOTES

- SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PLAN IS DIAGRAMMATIC. ALL PIPING, LATERALS, AND WIRE TO BE LOCATED IN BED OR LAWN AREAS WHERE APPROPRIATE.
- PIPE SIZES ARE TO REMAIN CONSTANT BETWEEN PIPE SIZE CALL-OUTS. PIPES ARE LABELED TO SMALLEST PIPE SIZE ONLY (3/4").
- ALL IRRIGATION HEADS LOCATED IN LAWN AREAS SHALL BE 4" POP-UPS AND HEADS IN SHRUB AREAS SHALL BE 12" POP-UPS.
- ALL DRIP TUBING SHALL BE INSTALLED BELOW THE FINISH SOIL GRADE UNLESS NOTED OTHERWISE. INSTALL TUBING AT A CONSISTENT DEPTH OF 2" BELOW TOP OF TOPSOIL.
- ALL PIPES AND SLEEVES UNDER PAVED AREAS SHALL BE 24" DEEP. ALL MAINLINE SHALL BE 18" DEEP IN ALL UNPAVED AREAS, 24" IN PAVED AREAS. ALL LATERALS SHALL BE 12" DEEP IN ALL UNPAVED AREAS AND 24" DEEP IN PAVED AREAS.
- LOCATE ALL MAINLINES WITHIN THE PROJECT LIMITS. INSTALL #14-AWG DIRECT BURIAL LOW VOLTAGE WIRE ALONG MAINLINE; TAPE AND BUNDLE WIRE EVERY 20' FT. PROVIDE RED COLOR WIRE FOR SIGNAL AND WHITE COLOR WIRE FOR COMMON. PROVIDE A MINIMUM OF ONE SPARE WIRE FOR EVERY 10 VALVES FOR A MAXIMUM OF FIVE SPARE WIRES.
- ALL WORK SHALL BE PERFORMED TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT/OWNER.

### IRRIGATION SCHEDULE LS-07

SYMBOL	DESCRIPTION
I-101	PRESERVE AND PROTECT EXISTING TREES AND/OR LANDSCAPE PLANTINGS TO REMAIN, THIS AREA. PRESERVE AND PROTECT EXISTING IRRIGATION LINES AND HEADS TO REMAIN ALONG EXISTING PAVING/WALKS. FIELD VERIFY EXTENTS OF EXISTING LANDSCAPE TO REMAIN AND ADJUST IRRIGATION EQUIPMENT AS NEEDED.
I-102	PRESERVE AND PROTECT EXISTING IRRIGATION VALVES AND EQUIPMENT, THIS AREA. ENSURE THAT THE OPERATION AND FUNCTION OF EXISTING IRRIGATION ZONES IN THIS AREA ARE PRESERVED.
I-103	IRRIGATION PLAN IS DIAGRAMMATIC, TYP. ALL LINES, HEADS, VALVES AND OTHER IRRIGATION EQUIPMENT SHALL BE INSTALLED IN LANDSCAPE AREAS WHERE POSSIBLE AND WITHIN PROJECT LIMITS UNLESS OTHERWISE NOTED.
I-108	TWO EXISTING CONTROL VALVES HERE, AND RELATED EQUIPMENT, TO BE REMOVED AND A USABLE LENGTH OF THE CONTROL WIRES RETAINED (MIN. 6'), NEAR POINT OF CONNECTION '1'. CONFIRM LOCATION OF VALVES WITH OWNER'S REPRESENTATIVE.



REVISIONS	DATE	BY

**SCJ ALLIANCE**  
CONSULTING SERVICES  
8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516  
P: 360.352.1465 F: 360.352.1509  
SCJALLIANCE.COM

SHEET TITLE: **NORTHEAST IRRIGATION PLAN**  
PROJECT NAME: **RAC PARKING LOT EXPANSION**  
8345 STEILACOOM RD SE  
LACEY, WA



DESIGNER:	J. MCFARLAND
DRAWN BY:	J. MCFARLAND
APPROVED BY:	J. GLANDER
DATE:	MARCH 1, 2023
JOB NO.:	22-000313
DRAWING FILE NO.:	22-000313-XLS
DRAWING NO.:	LS-07
SHEET NO.:	31 OF 44

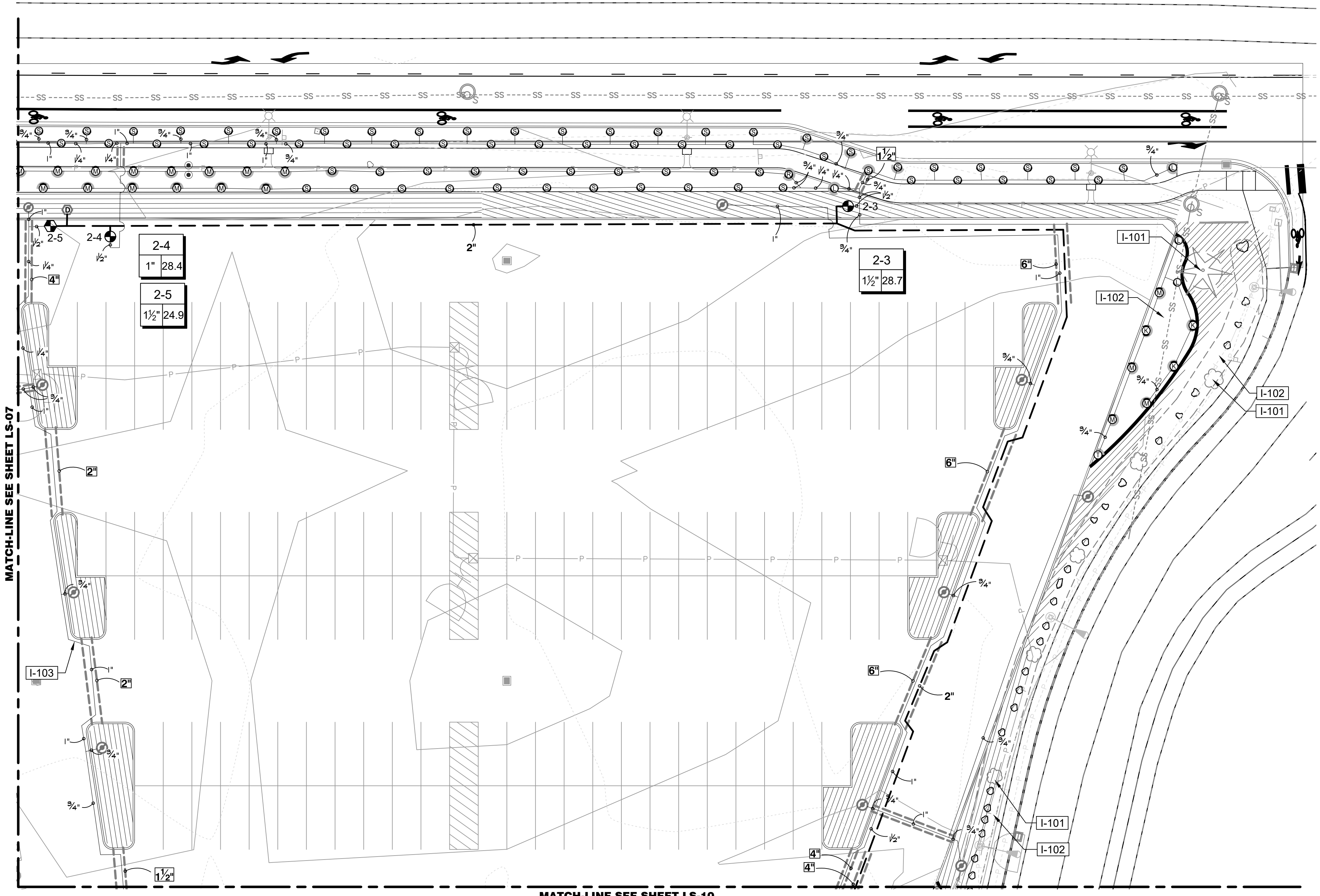
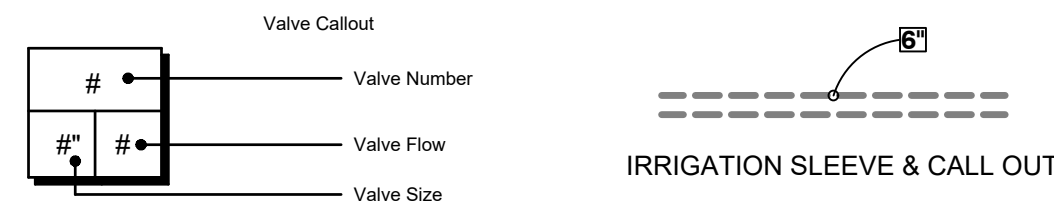
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IRRIGATION SCHEDULE LS-08		
SYMBOL	MANUFACTURER/MODEL	DETAIL
⊙	HUNTER MP CORNER PROS-04-PRS40-CV	3/LS-11
⊙ ⊙ ⊙ LST SST RST	HUNTER MP STRIP PROS-04-PRS40-CV	3/LS-11
⊙ ⊙ ⊙	HUNTER MP1000 PROS-04-PRS40-CV	3/LS-11
⊙ ⊙ ⊙	HUNTER MP2000 PROS-04-PRS40-CV	3/LS-11
SYMBOL	MANUFACTURER/MODEL	DETAIL
⊙	PIPE TRANSITION POINT	5/LS-11
	AREA TO RECEIVE DRIPLINE NETAFIM TLCV-06-18	7/LS-11
SYMBOL	MANUFACTURER/MODEL	DETAIL
⊙	WEATHERMATIC MAX-DW	1/LS-11
⊙	WEATHERMATIC MAX-DW-XPR DFX-140	2/LS-11
⊙	MANUAL DRAIN VALVE	3/LS-11
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21	
	IRRIGATION MAINLINE: PVC SCHEDULE 40	
	PIPE SLEEVE: PVC CLASS 200 SDR 21	

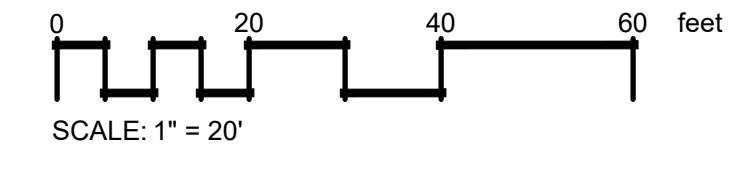
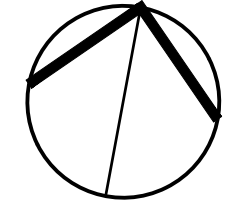


**IRRIGATION SHEET NOTES**

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- PLAN IS DIAGRAMMATIC. ALL PIPING, LATERALS, AND WIRE TO BE LOCATED IN BED OR LAWN AREAS WHERE APPROPRIATE.
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- LOCATE ALL MAINLINES WITHIN THE PROJECT LIMITS. INSTALL #14-AWG DIRECT BURIAL LOW VOLTAGE WIRE ALONG MAINLINE; TAPE AND BUNDLE WIRE EVER 20' FT. PROVIDE RED COLOR WIRE FOR SIGNAL AND WHITE COLOR WIRE FOR COMMON. PROVIDE A MINIMUM OF ONE SPARE WIRE FOR EVERY 10 VALVES FOR A MAXIMUM OF FIVE SPARE WIRES.
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**IRRIGATION SCHEDULE LS-08**

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I-102	PRESERVE AND PROTECT EXISTING IRRIGATION VALVES AND EQUIPMENT, THIS AREA. ENSURE THAT THE OPERATION AND FUNCTION OF EXISTING IRRIGATION ZONES IN THIS AREA ARE PRESERVED.
I-103	IRRIGATION PLAN IS DIAGRAMMATIC, TYP. ALL LINES, HEADS, VALVES AND OTHER IRRIGATION EQUIPEMENT SHALL BE INSTALLED IN LANDSCAPE AREAS WHERE POSSIBLE AND WITHIN PROJECT LIMITS UNLESS OTHERWISE NOTED.



Mr. 01\_0723 1:38:25pm User: jmcintosh  
 W:\PROJECTS\2022\011 OF LACEY\22-000313 RAC PARKING LOT DESIGN\CADD\22-000313 X-IR.DWG

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BY	DATE

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 SCJALLIANCE.COM

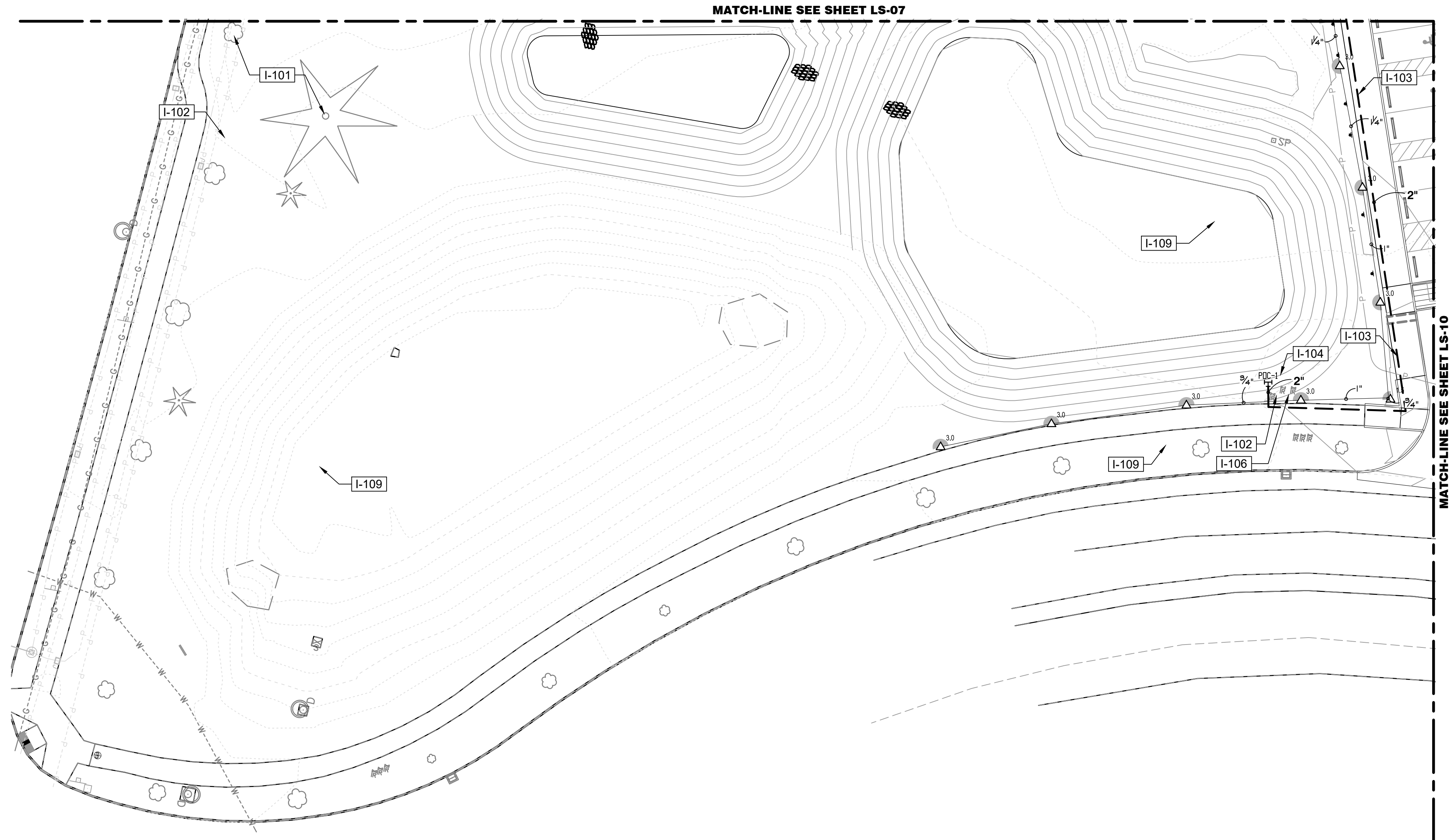
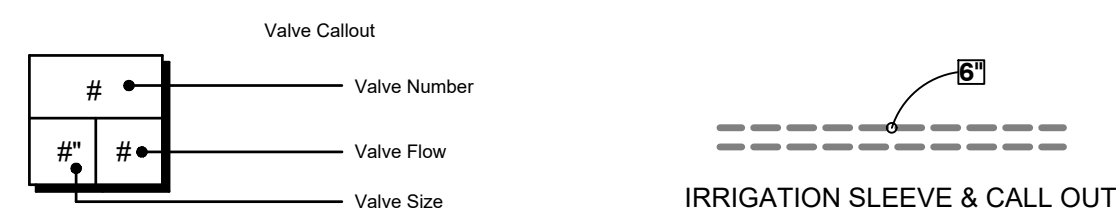
**SHEET TITLE:** NORTHEAST IRRIGATION PLAN  
**PROJECT NAME:** RAC PARKING LOT EXPANSION  
 8345 STEILACOOM RD SE  
 LACEY, WA



DESIGNER: J. MCFARLAND
DRAWN BY: J. MCFARLAND
APPROVED BY: J. GLANDER
DATE: MARCH 1, 2023
JOB NO: 22-000313
DRAWING FILE NO: 22-000313 X-LS
DRAWING NO: LS-08
SHEET NO: 32 OF 44



IRRIGATION SCHEDULE LS-09			
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
$\triangle^{1.5}$	HUNTER I-20-06 1.5 TURF ROTOR, 6IN. POP-UP. ADJUSTABLE AND FULL CIRCLE. PLASTIC RISER. DRAIN CHECK VALVE. STANDARD NOZZLE.	35	4/LS-11
$\triangle^{3.0}$	HUNTER I-20-06 3.0 TURF ROTOR, 6IN. POP-UP. ADJUSTABLE AND FULL CIRCLE. PLASTIC RISER. DRAIN CHECK VALVE. STANDARD NOZZLE.	35	4/LS-11
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
	AREA TO RECEIVE DRIPLINE NETAFIM TLCV-06-18 TECHLINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH CHECK VALVE. 0.6 GPH EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. 17MM.	30	7/LS-11
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION		DETAIL
$\square^{POC-1}$	POINT OF CONNECTION 3" IRRIGATION POC 1 AT TEE OFF EXISTING 3" MAINLINE "D", FIELD VERIFY LOCATION. VERIFY WITH OWNER'S REPRESENTATIVE PRIOR TO CONNECTION. VERIFY AND PRESERVE (2) EXISTING SPARE WIRES FOR USE. THIS INSTALLATION. 70N PSI EXISTING STATIC PRESSURE PER CITY OF LACEY REP.		
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21		
	IRRIGATION MAINLINE: PVC SCHEDULE 40		
	PIPE SLEEVE: PVC CLASS 200 SDR 21		

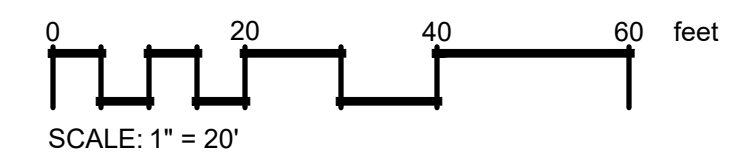
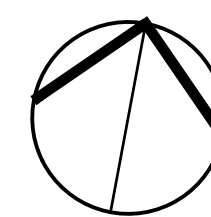


### IRRIGATION SHEET NOTES

- SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PLAN IS DIAGRAMMATIC. ALL PIPING, LATERALS, AND WIRE TO BE LOCATED IN BED OR LAWN AREAS WHERE APPROPRIATE.
- PIPE SIZES ARE TO REMAIN CONSTANT BETWEEN PIPE SIZE CALL-OUTS. PIPES ARE LABELED TO SMALLEST PIPE SIZE ONLY (3/4").
- ALL IRRIGATION HEADS LOCATED IN LAWN AREAS SHALL BE 4" POP-UPS AND HEADS IN SHRUB AREAS SHALL BE 12" POP-UPS.
- ALL DRIP TUBING SHALL BE INSTALLED BELOW THE FINISH SOIL GRADE UNLESS NOTED OTHERWISE. INSTALL TUBING AT A CONSISTENT DEPTH OF 2" BELOW TOP OF TOPSOIL.
- ALL PIPES AND SLEEVES UNDER PAVED AREAS SHALL BE 24" DEEP. ALL MAINLINE SHALL BE 18" DEEP IN ALL UNPAVED AREAS, 24" IN PAVED AREAS. ALL LATERALS SHALL BE 12" DEEP IN ALL UNPAVED AREAS AND 24" DEEP IN PAVED AREAS.
- LOCATE ALL MAINLINES WITHIN THE PROJECT LIMITS. INSTALL #14-AWG DIRECT BURIAL LOW VOLTAGE WIRE ALONG MAINLINE; TAPE AND BUNDLE WIRE EVER 20' FT. PROVIDE RED COLOR WIRE FOR SIGNAL AND WHITE COLOR WIRE FOR COMMON. PROVIDE A MINIMUM OF ONE SPARE WIRE FOR EVERY 10 VALVES FOR A MAXIMUM OF FIVE SPARE WIRES.
- ALL WORK SHALL BE PERFORMED TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT/OWNER.

### IRRIGATION SCHEDULE LS-09

SYMBOL	DESCRIPTION
I-101	PRESERVE AND PROTECT EXISTING TREES AND/OR LANDSCAPE PLANTINGS TO REMAIN, THIS AREA. PRESERVE AND PROTECT EXISTING IRRIGATION LINES AND HEADS TO REMAIN ALONG EXISTING PAVING/WALKS. FIELD VERIFY EXTENTS OF EXISTING LANDSCAPE TO REMAIN AND ADJUST IRRIGATION EQUIPMENT AS NEEDED.
I-102	PRESERVE AND PROTECT EXISTING IRRIGATION VALVES AND EQUIPMENT, THIS AREA. ENSURE THAT THE OPERATION AND FUNCTION OF EXISTING IRRIGATION ZONES IN THIS AREA ARE PRESERVED.
I-103	IRRIGATION PLAN IS DIAGRAMMATIC, TYP. ALL LINES, HEADS, VALVES AND OTHER IRRIGATION EQUIPMENT SHALL BE INSTALLED IN LANDSCAPE AREAS WHERE POSSIBLE AND WITHIN PROJECT LIMITS UNLESS OTHERWISE NOTED.
I-104	IRRIGATION POINT OF CONNECTION 1 AT TEE OFF OF EXISTING 3" IRRIG. MAINLINE "D". FIELD VERIFY LOCATION AND EQUIPMENT AND CONFIRM CONNECTION WITH OWNER'S REPRESENTATIVE. STATIC PRESSURE IS 70 PSI PER CITY OF OLYMPIA.
I-106	PRESERVE TWO (2) EXISTING SPARE WIRES AT EXISTING CONTROL VALVE TO REMAIN, THIS LOCATION. FIELD VERIFY CONDITION AND OPERATION. SPARE WIRES SHALL BE USED FOR CONNECTION TO PROPOSED CONTROL VALVES CONNECTED TO POC 1
I-109	NO WORK THIS AREA



Mr. D. 07/23 1:38:27pm - User: jacob.machlye  
 W:\PROJECTS\2022\0711 OF LACEY\22-000313 RAC PARKING LOT DESIGN\CADD\22-000313 X-IR.DWG

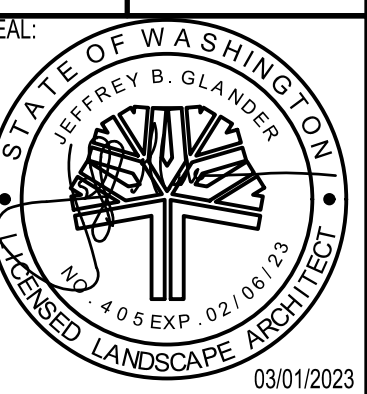
### CALL BEFORE YOU DIG

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

REVISIONS	DATE	BY

**SCJ ALLIANCE**  
 CONSULTING SERVICES  
 8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516  
 P: 360.352.1465 F: 360.352.1509  
 SCJALLIANCE.COM

SHEET TITLE: **SOUTHWEST IRRIGATION PLAN**  
 PROJECT NAME: **RAC PARKING LOT EXPANSION**  
 8345 STEILACOOM RD SE  
 LACEY, WA

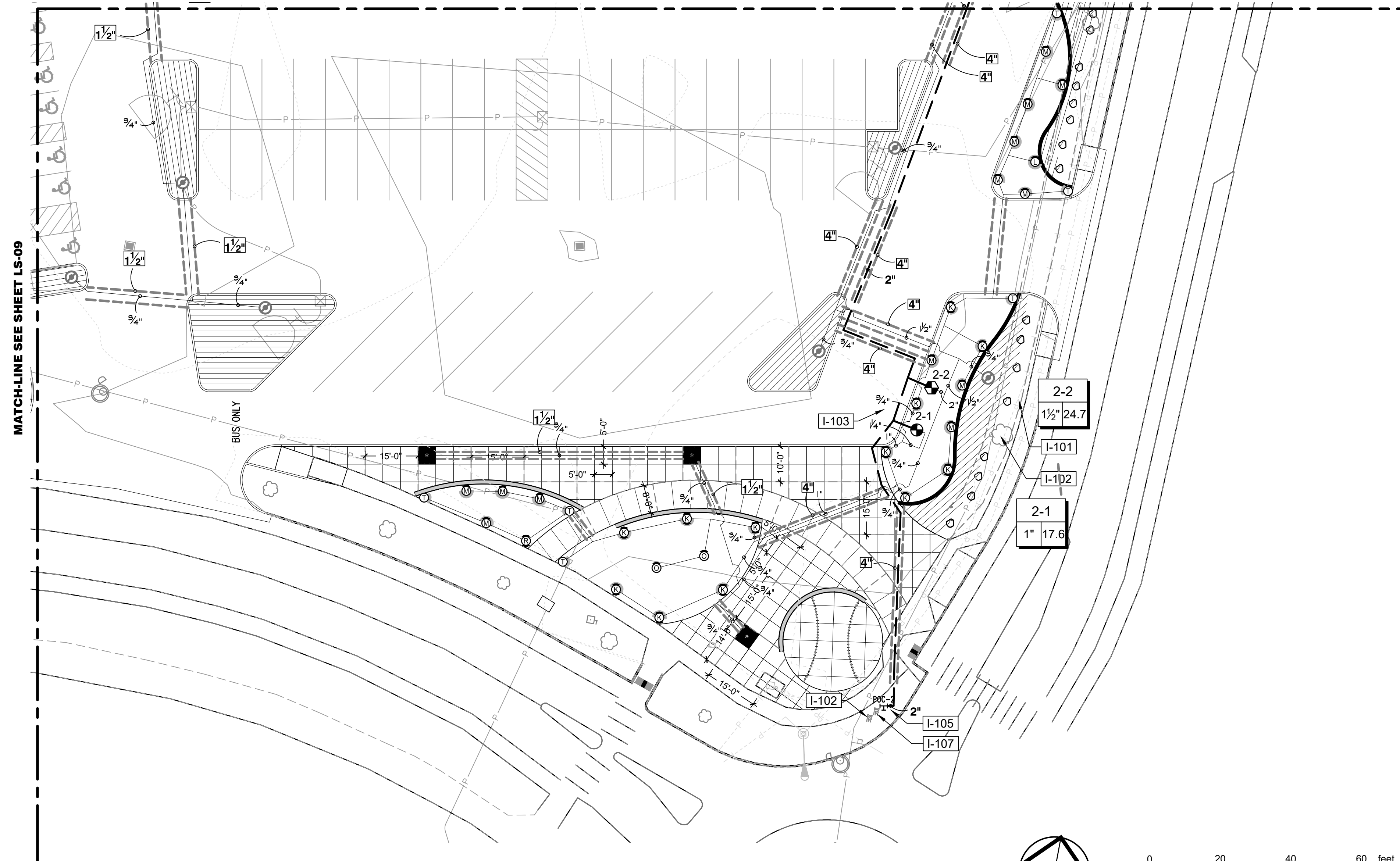
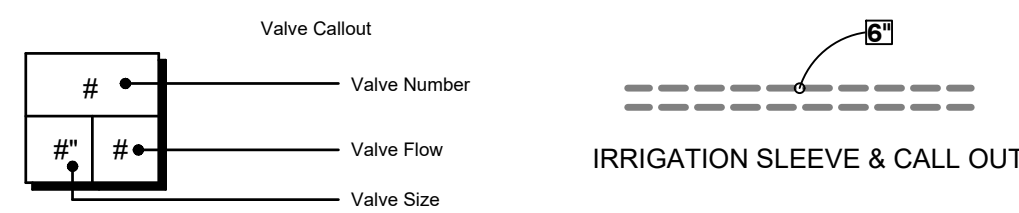


DESIGNER:	J. MCFARLAND
DRAWN BY:	J. MCFARLAND
APPROVED BY:	J. GLANDER
DATE:	MARCH 1, 2023
JOB NO:	22-000313
DRAWING FILE NO:	22-000313-X-LS
DRAWING NO:	LS-09
SHEET NO:	33 OF 44



MATCH-LINE SEE SHEET LS-08

IRRIGATION SCHEDULE LS-10			
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
①	HUNTER MP CORNER PROS-04-PRS40-CV TURF ROTATOR, 4IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE. T=TURQUOISE ADJ ARC 45-105 ON PRS40 BODY.	40	3/LS-11
Ⓜ Ⓛ Ⓞ	HUNTER MP1000 PROS-04-PRS40-CV TURF ROTATOR, 4IN. POP-UP WITH CHECK VALVE, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.	40	3/LS-11
Ⓚ Ⓛ Ⓜ Ⓡ	HUNTER MP2000 PROS-04-PRS40-CV TURF ROTATOR, 4IN. POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360 ARC.	40	3/LS-11
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
Ⓟ	PIPE TRANSITION POINT PIPE TRANSITION POINT FROM PVC LATERAL TO DRIP TUBING WITH RISER TO INSTALLATION 2" BELOW TOPSOIL FINISH GRADE.		5/LS-11
Ⓢ	DOUBLE DRIP RING 2 DRIP RINGS USING 12" EMITTER SPACING @ 0.53 GPH. FIRST RING SHALL BE 12 INCHES FROM TRUNK SECOND RING SHALL BE 30" FROM TRUNK.	30	/
	AREA TO RECEIVE DRIPLINE NETAFIM TLCV-06-18 TECHLINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH CHECK VALVE. 0.6 GPH EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. 17MM.	30	7/LS-11
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION		DETAIL
	WEATHERMATIC MAX-DW PLASTIC REMOTE CONTROL VALVE, 1IN., 1-1/2IN., 2IN. SIZE AS NOTED.		1/LS-11
	WEATHERMATIC MAX-DW-XPR DFXX-140 PLASTIC REMOTE CONTROL VALVE WITH PRESSURE REGULATOR, AND NETAFIM 140 MESH DISK FILTER, MATCH VALVE SIZE. 1IN., 1-1/2IN., 2IN. SIZE AS NOTED. FOR USE AS A DRIP ZONE CONTROL VALVE.		2/LS-11
PDC-2 	POINT OF CONNECTION 3" IRRIGATION POC 2 AT TEE OFF EXISTING 3" MAINLINE 'A', FIELD VERIFY LOCATION. VERIFY WITH OWNER'S REPRESENTATIVE PRIOR TO CONNECTION. IRRIGATION POC 2 AT TEE OFF EXISTING 3" MAINLINE, FIELD VERIFY LOCATION. VERIFY WITH OWNER'S REPRESENTATIVE PRIOR TO CONNECTION. VERIFY AND PRESERVE (5) EXISTING SPARE WIRES FOR USE, THIS INSTALLATION. 70 PSI STATIC PRESSURE PER CITY OF LACEY REP.		
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21		
	IRRIGATION MAINLINE: PVC SCHEDULE 40		
	PIPE SLEEVE: PVC CLASS 200 SDR 21		



**IRRIGATION SHEET NOTES**

- SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PLAN IS DIAGRAMMATIC. ALL PIPING, LATERALS, AND WIRE TO BE LOCATED IN BED OR LAWN AREAS WHERE APPROPRIATE.
- PIPE SIZES ARE TO REMAIN CONSTANT BETWEEN PIPE SIZE CALL-OUTS. PIPES ARE LABELED TO SMALLEST PIPE SIZE ONLY (3/4").
- ALL IRRIGATION HEADS LOCATED IN LAWN AREAS SHALL BE 4" POP-UPS AND HEADS IN SHRUB AREAS SHALL BE 12" POP-UPS.
- ALL DRIP TUBING SHALL BE INSTALLED BELOW THE FINISH SOIL GRADE UNLESS NOTED OTHERWISE. INSTALL TUBING AT A CONSISTENT DEPTH OF 2" BELOW TOP OF TOPSOIL.
- ALL PIPES AND SLEEVES UNDER PAVED AREAS SHALL BE 24" DEEP. ALL MAINLINE SHALL BE 18" DEEP IN ALL UNPAVED AREAS, 24" IN PAVED AREAS. ALL LATERALS SHALL BE 12" DEEP IN ALL UNPAVED AREAS AND 24" DEEP IN PAVED AREAS.
- LOCATE ALL MAINLINES WITHIN THE PROJECT LIMITS. INSTALL #14-AWG DIRECT BURIAL LOW VOLTAGE WIRE ALONG MAINLINE; TAPE AND BUNDLE WIRE EVER 20' FT. PROVIDE RED COLOR WIRE FOR SIGNAL AND WHITE COLOR WIRE FOR COMMON. PROVIDE A MINIMUM OF ONE SPARE WIRE FOR EVERY 10 VALVES FOR A MAXIMUM OF FIVE SPARE WIRES.
- ALL WORK SHALL BE PERFORMED TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT/OWNER.

**IRRIGATION SCHEDULE LS-10**

SYMBOL	DESCRIPTION
I-101	PRESERVE AND PROTECT EXISTING TREES AND/OR LANDSCAPE PLANTINGS TO REMAIN, THIS AREA. PRESERVE AND PROTECT EXISTING IRRIGATION LINES AND HEADS TO REMAIN ALONG EXISTING PAVING/WALKS. FIELD VERIFY EXTENTS OF EXISTING LANDSCAPE TO REMAIN AND ADJUST IRRIGATION EQUIPMENT AS NEEDED.
I-102	PRESERVE AND PROTECT EXISTING IRRIGATION VALVES AND EQUIPMENT, THIS AREA. ENSURE THAT THE OPERATION AND FUNCTION OF EXISTING IRRIGATION ZONES IN THIS AREA ARE PRESERVED.
I-103	IRRIGATION PLAN IS DIAGRAMMATIC, TYP. ALL LINES, HEADS, VALVES AND OTHER IRRIGATION EQUIPMENT SHALL BE INSTALLED IN LANDSCAPE AREAS WHERE POSSIBLE AND WITHIN PROJECT LIMITS UNLESS OTHERWISE NOTED.
I-105	IRRIGATION POINT OF CONNECTION 2 AT TEE OFF EXISTING 3" IRRIG. MAINLINE 'A'. FIELD VERIFY EQUIPMENT AND LOCATION, AND CONFIRM CONNECTION WITH OWNER'S REPRESENTATIVE. STATIC PRESSURE IS 70 PSI PER CITY OF OLYMPIA.
I-107	PRESERVE FIVE (5) EXISTING SPARE WIRES AT EXISTING CONTROL VALVE TO REMAIN, THIS LOCATION. FIELD VERIFY CONDITION AND OPERATION. SPARE WIRES SHALL BE USED FOR CONNECTION TO PROPOSED CONTROL VALVES CONNECTED TO POC 2.

Mr. D. 0723 1:38:50pm - User: jacob.machlye  
 W:\PROJECTS\2023\0117 OF LACEY\22-000313 RAC PARKING LOT DESIGN\CADD\22-000313 X-IRR.DWG

**CALL BEFORE YOU DIG**

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 OR 1.800.424.5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

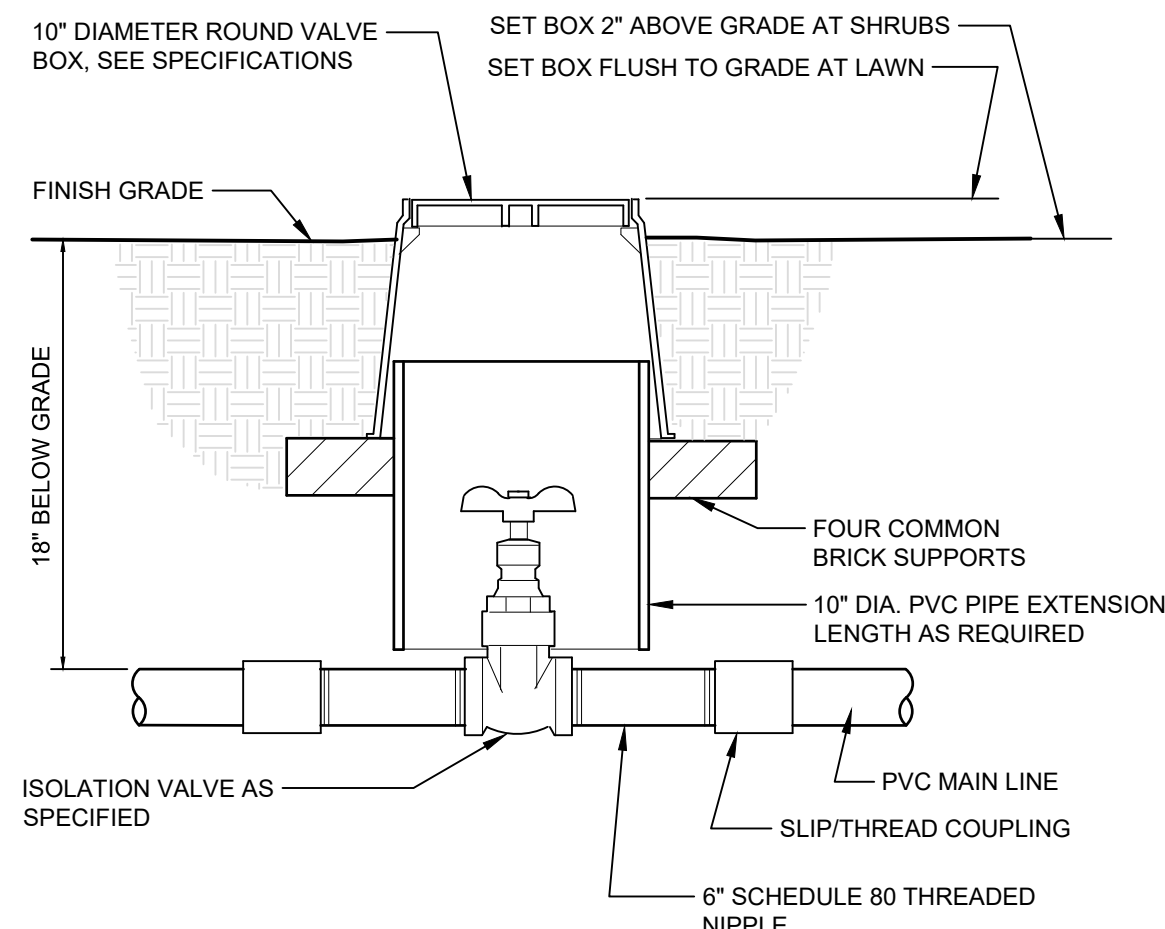
REVISIONS	DATE	BY

**SCJ ALLIANCE**  
 CONSULTING SERVICES  
 8730 TALLON LANE NE, SUITE 200, LACEY, WA 98516  
 P: 360.352.1465 F: 360.352.1509  
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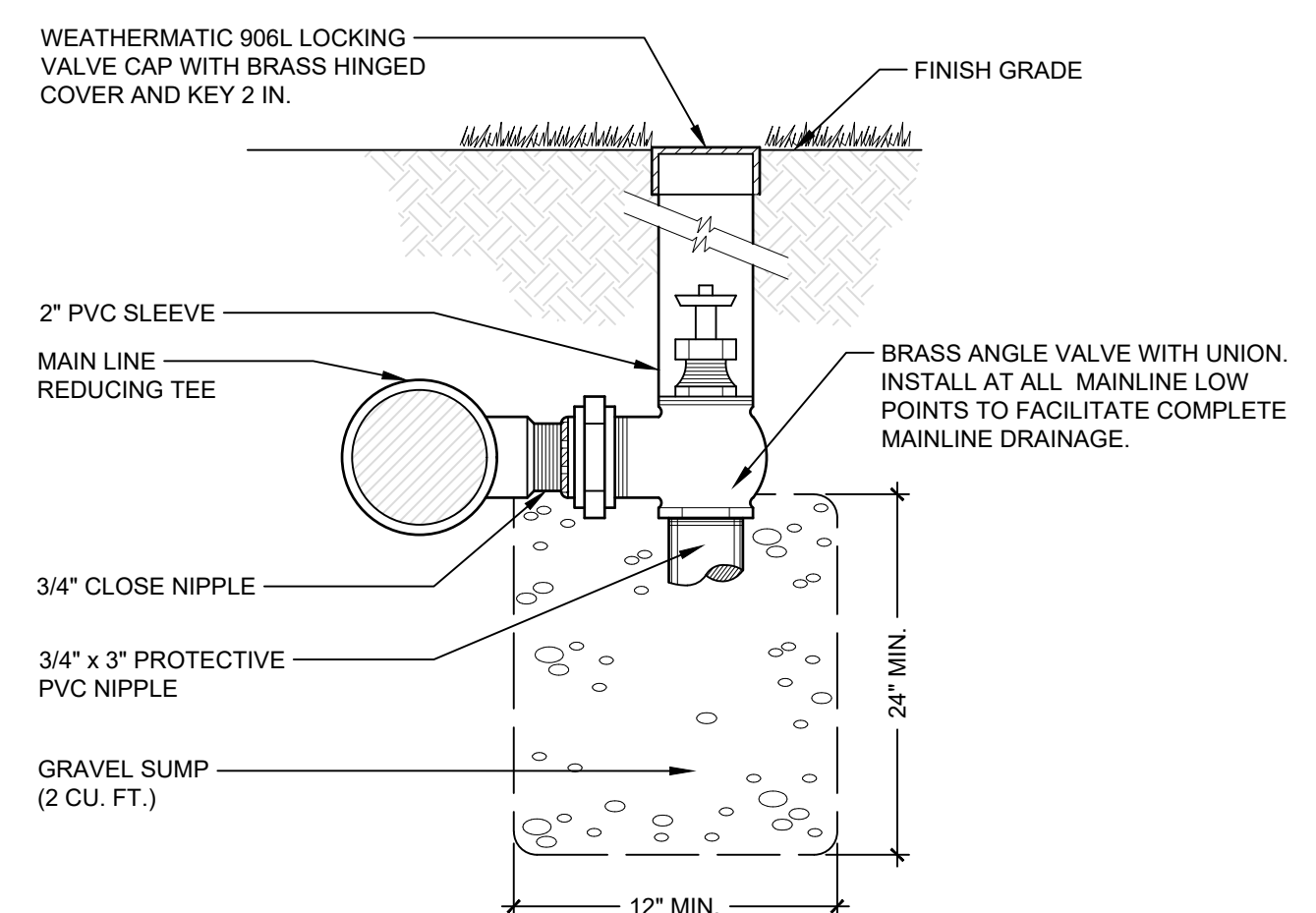
**SOUTHEAST IRRIGATION PLAN**  
 RAC PARKING LOT EXPANSION  
 8345 STEILACOOM RD SE  
 LACEY, WA

DESIGNER: J. MCFARLAND  
 DRAWN BY: J. MCFARLAND  
 APPROVED BY: J. GLANDER  
 DATE: MARCH 1, 2023  
 JOB NO: 22-000313  
 DRAWING FILE NO: 22-000313 X-LS  
 DRAWING NO: LS-10  
 SHEET NO: 34 OF 44

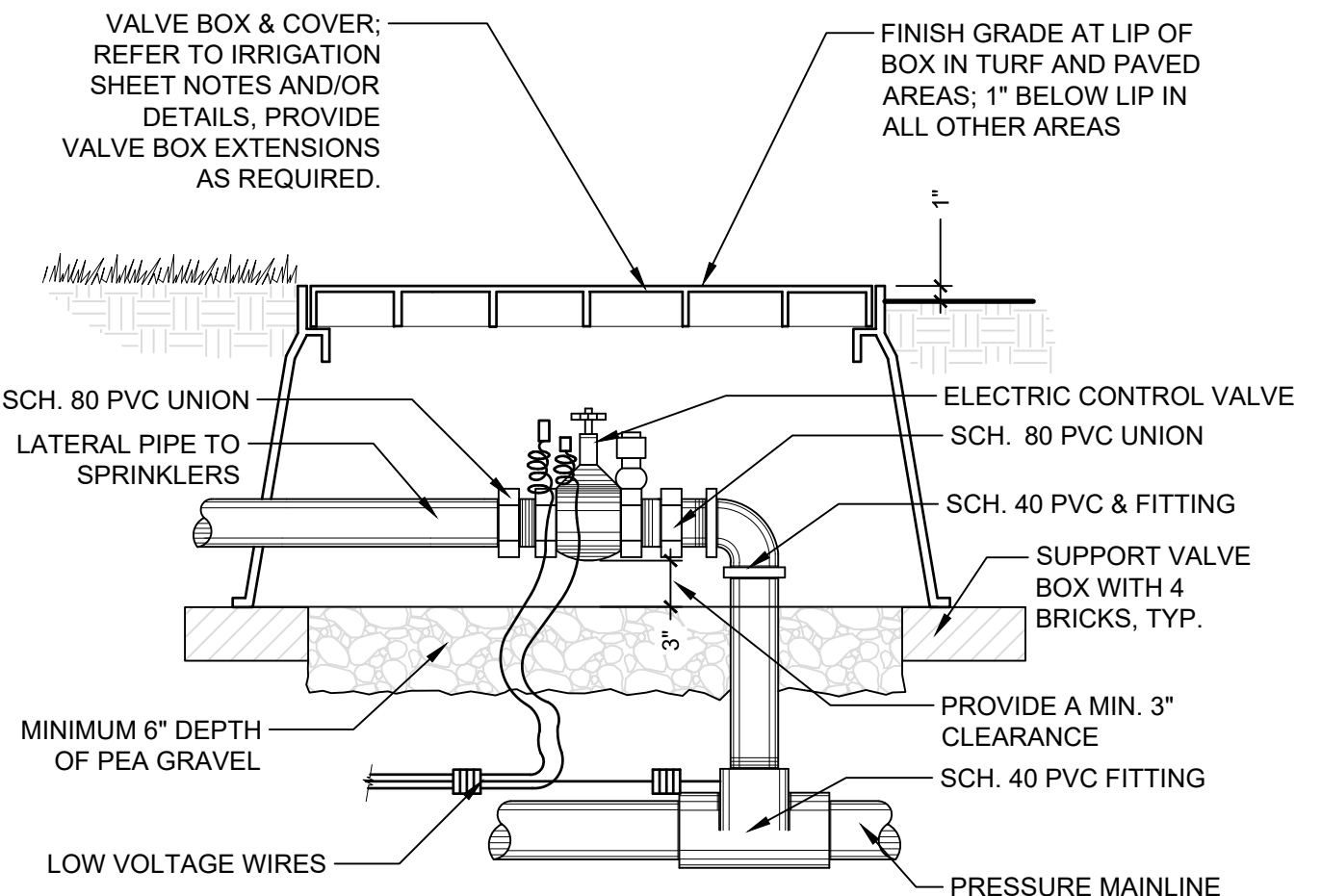




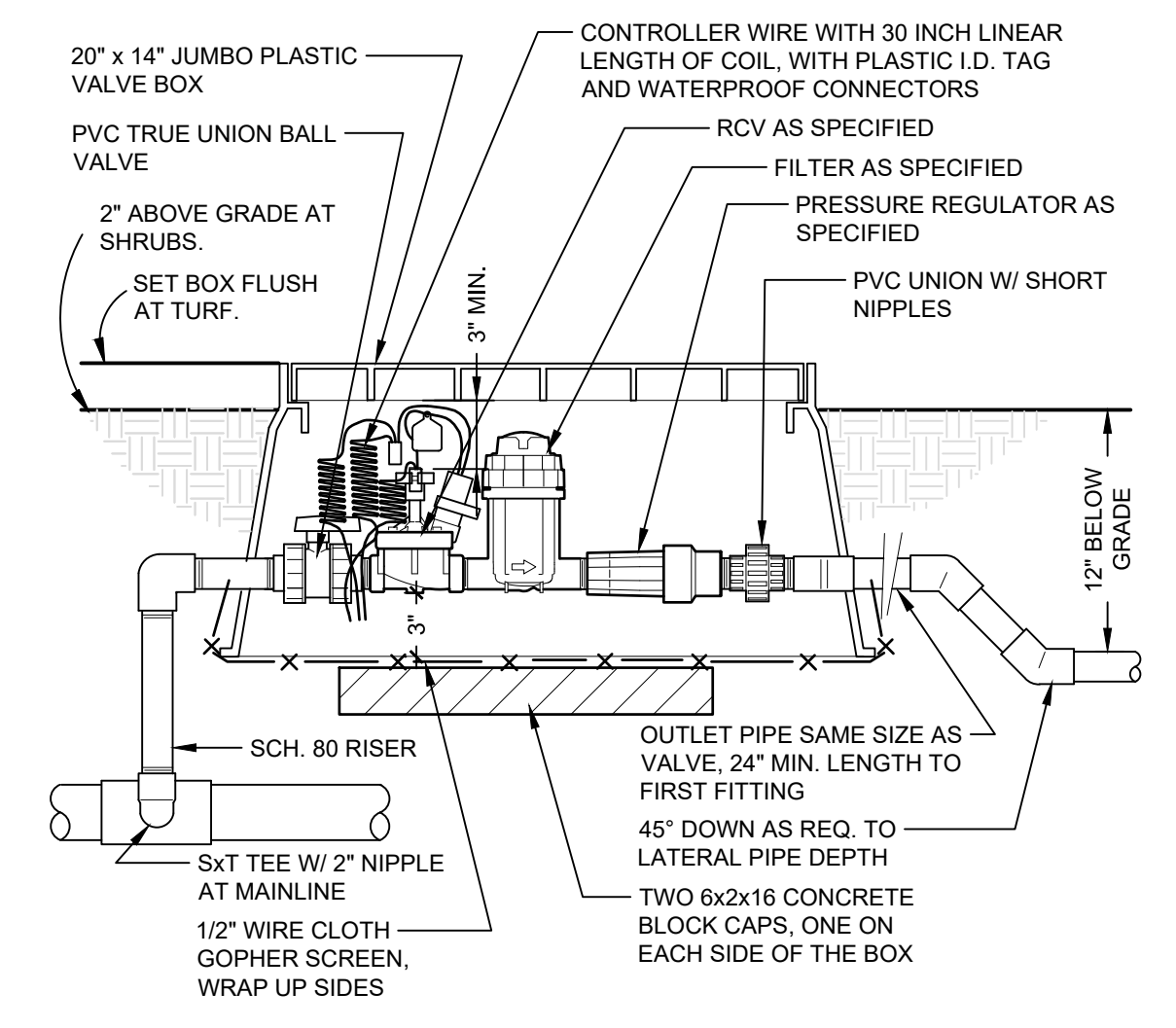
**1 SHUT OFF VALVE**  
1 1/2" = 1'-0" P-PU-RAC-06



**3 MANUAL DRAIN VALVE DETAIL**  
N.T.S. P-PU-RAC-04



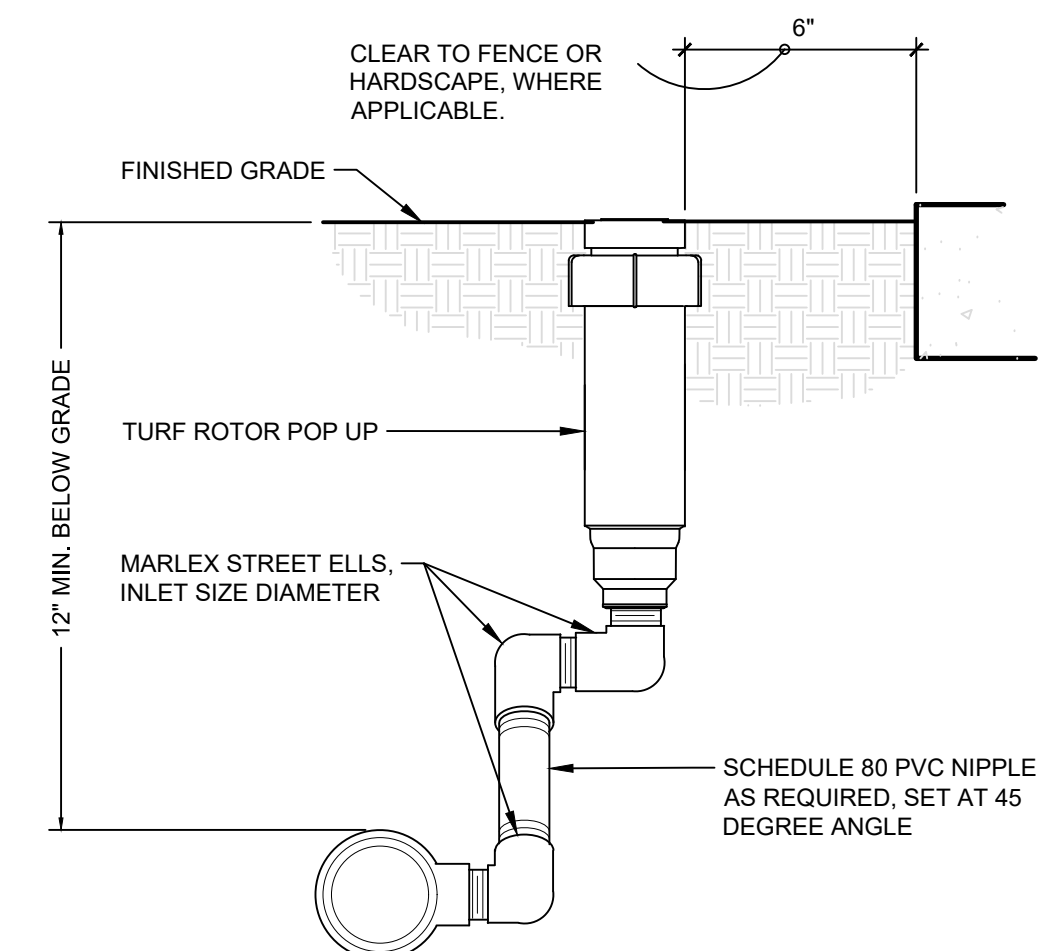
**1 ELECTRONIC CONTROL VALVE**  
1" = 1'-0" P-PU-RAC-12



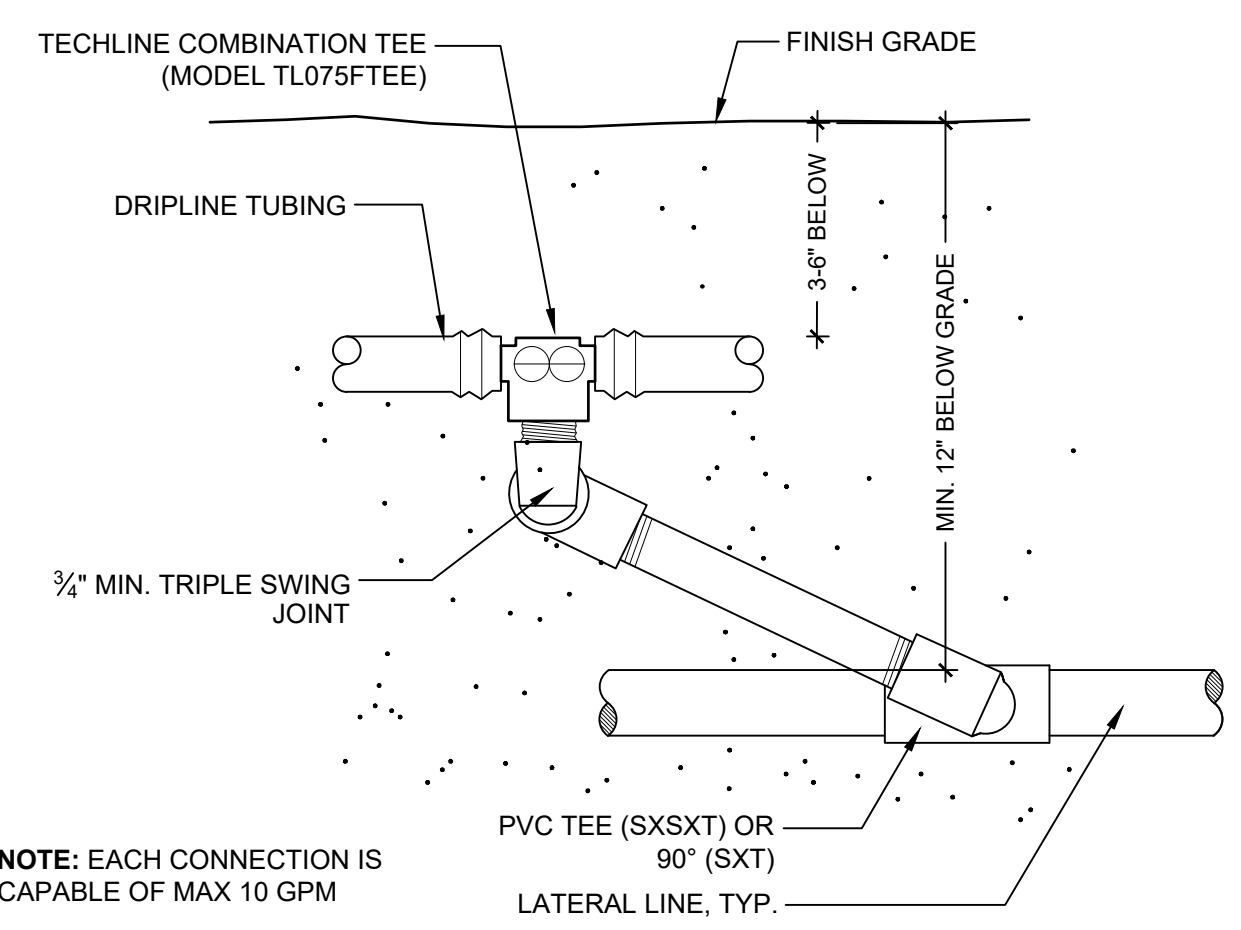
**2 1" DRIP VALVE W/BASKET FILTER**  
1 1/2" = 1'-0" P-PU-RAC-08

**IRRIGATION SPECIFICATIONS**

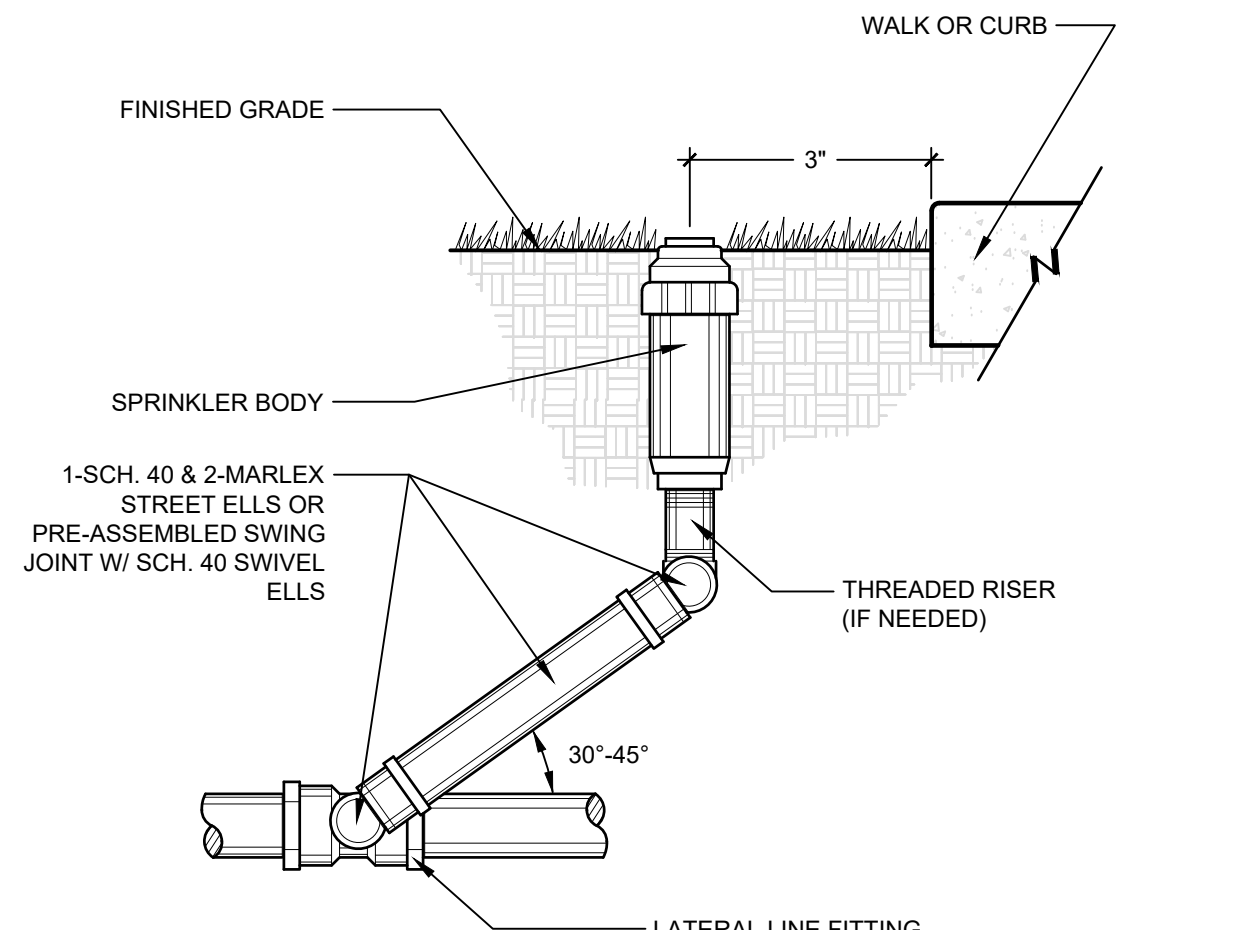
- THIS PLAN IS DIAGRAMMATIC; ALL PIPING, VALVES, ETC. SHALL BE INSTALLED IN SHRUB BEDS WHERE POSSIBLE AND SHALL FOLLOW THE PLAN AS CLOSE AS IS PRACTICAL.
- LOCATE ALL MAINLINES WITHIN THE PROJECT LIMITS.
- PIPE SIZES ARE CONSTANT BETWEEN PIPE SIZE CALL-OUTS. ALL LATERAL PIPES SHALL BE INSTALLED AT 12" DEPTH AND 24" DEPTH UNDER PAVED AREAS. MAINLINE PIPE SHALL BE INSTALLED AT 18" BELOW GRADE AND 24" BELOW PAVED AREAS.
- REFER TO DETAILS FOR ADDITIONAL INFORMATION.
- ALL PIPING AND WIRING UNDER PAVED AREAS SHALL BE HOUSED IN CLASS 200 PVC SLEEVES INSTALLED AT A 24" DEPTH. SIZE SLEEVES AS NEEDED TO ACCOMMODATE PIPE AND WIRES, UNLESS OTHERWISE SPECIFIED ON DRAWING.
- CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED TO OBTAIN FULL COVERAGE. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO MAKE NOZZLE CHANGES AS NEEDED AT NO ADDITIONAL COST. ADJUST HEAD POSITIONS AND ADD OR DELETE HEADS AS NEEDED DEPENDING ON ACTUAL FIELD CONDITIONS.
- ALL MANUAL, GATE AND ELECTRICAL VALVES AND OTHER UNDERGROUND EQUIPMENT SHALL BE HOUSED IN NELSON, AMETEK OR EQUAL RECTANGULAR VALVE BOXES.
- NO IN-LINE WIRE SPLICES ALLOWED. SUPPLY VALVE BOXES AT ALL ELECTRICAL JUNCTIONS. TAPE AND BUNDLE WIRES EVERY 25 LINEAR FEET.
- CONTRACTOR IS RESPONSIBLE FOR COMPLETE SYSTEM DRAINAGE. INSTALL KING BROS. 1/2" AUTOMATIC DRAIN VALVES AT LATERAL LINE LOW POINT(S). INSTALL MANUAL DRAINS AT ALL MAINLINE LOW POINT(S) AND WHERE INDICATED ON PLAN. CONTRACTOR SHALL PROVIDE ADJUSTABLE CHECK VALVES ON ANY IRRIGATION HEAD THAT EXPERIENCES LOW HEAD DRAINAGE.
- ALL THREADED PIPE CONNECTIONS SHALL BE MADE USING TEFLON TAPE WRAPPED AT LEAST THREE TIMES AROUND PIPE THREADS.
- ALL GATE AND ELECTRIC VALVES SHALL BE INSTALLED WITH UNIONS ON THE DOWNSTREAM END OF THE VALVE (REFER TO DETAILS).
- ALL PIPE SHALL HAVE A FIRM UNIFORM BEARING FOR THE ENTIRE LENGTH OF EACH LINE, FREE OF ROCKS OR DEBRIS. ALL TRENCHES CONTAINING PIPE AND/OR WIRES SHALL BE BACKFILLED WITH CLEAN TOPSOIL, FREE OF ALL LUMBER, RUBBISH AND ROCKS OVER 1" IN SIZE, OR CLEAN SAND IF CLEAN TOPSOIL IS NOT AVAILABLE.
- CONTRACTOR SHALL PROVIDE OWNER WITH ONE SET OF AS-BUILT RECORD DRAWINGS SHOWING EXACT ACTUAL LOCATIONS OF ALL SPRINKLER EQUIPMENT. CONTRACTOR SHALL ORIENT OWNER WITH COMPLETE SYSTEM AND CONTROLLER OPERATIONS, AND WINTERIZATION PROCEDURES.
- CONTRACTOR SHALL SUPPLY AND INSTALL ALL EQUIPMENT SHOWN ON THE PLANS AND INDICATED IN THE SPECIFICATIONS TO ACHIEVE PROPER OPERATION OF SAID EQUIPMENT. ALL EQUIPMENT INSTALLATIONS, ELECTRICAL AND PLUMBING CONNECTIONS SHALL BE IN CONFORMANCE WITH ALL APPLICABLE CODES AND ORDINANCES, THESE SPECIFICATIONS, AND THE MANUFACTURERS RECOMMENDATIONS WHETHER INDICATED ON THE DRAWINGS OR NOT.
- CONTRACTOR SHALL INCLUDE IN HIS BID ONE FALL WINTERIZATION AND ONE SPRING ACTIVATION OF IRRIGATION SYSTEM. THESE ACTIVITIES SHALL BE INCLUDED AS PART OF OWNER ORIENTATION PROCEDURES. ANY DAMAGE TO THE IRRIGATION SYSTEM OR THE LANDSCAPE AS A RESULT OF FAILURE TO COMPLY WITH THESE REQUIREMENTS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL GUARANTEE IN WRITING ON HIS COMPANY LETTERHEAD ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE FULL YEAR FOLLOWING ACCEPTANCE OF SYSTEM INSTALLATION.
- BACKFLOW PREVENTOR SHALL BE INSPECTED AND TESTED BY A CERTIFIED BACKFLOW DEVICE INSPECTOR. PROVIDE OWNER WITH ONE COPY OF APPROVAL CERTIFICATE.



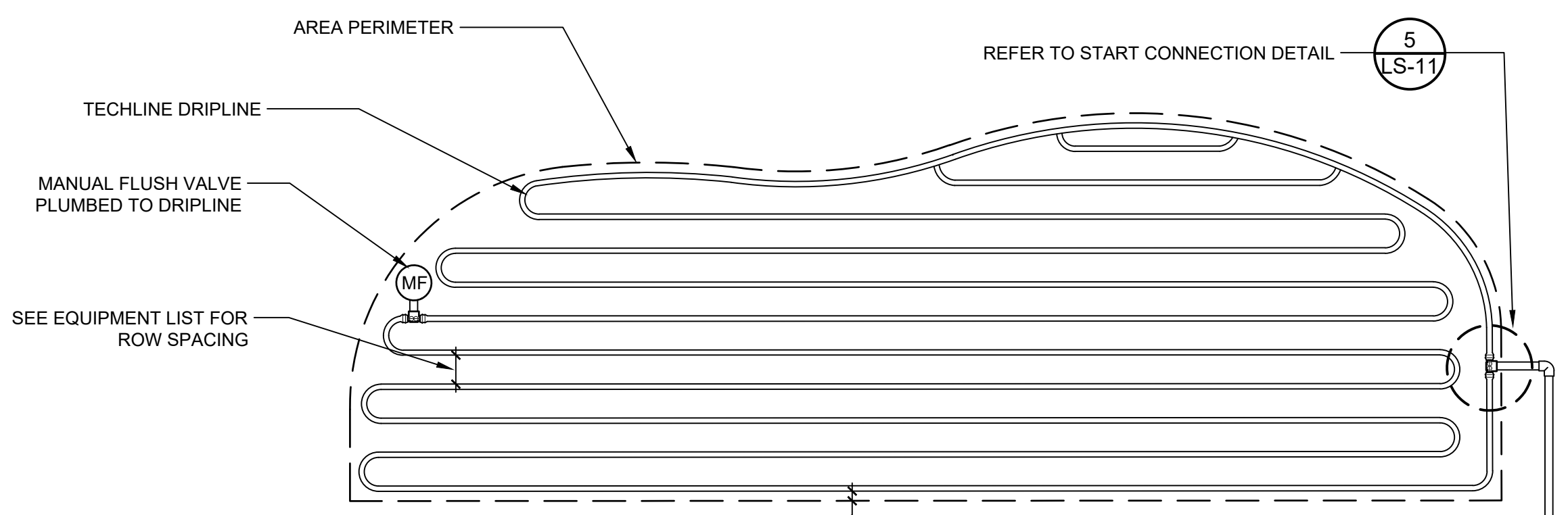
**4 TURF ROTOR MARLEX ASSEMBLY**  
3" = 1'-0" P-PU-RAC-20



**5 TECHLINE START CONNECTION (SWING JOINT RISER)**  
N.T.S. P-PU-RAC-07

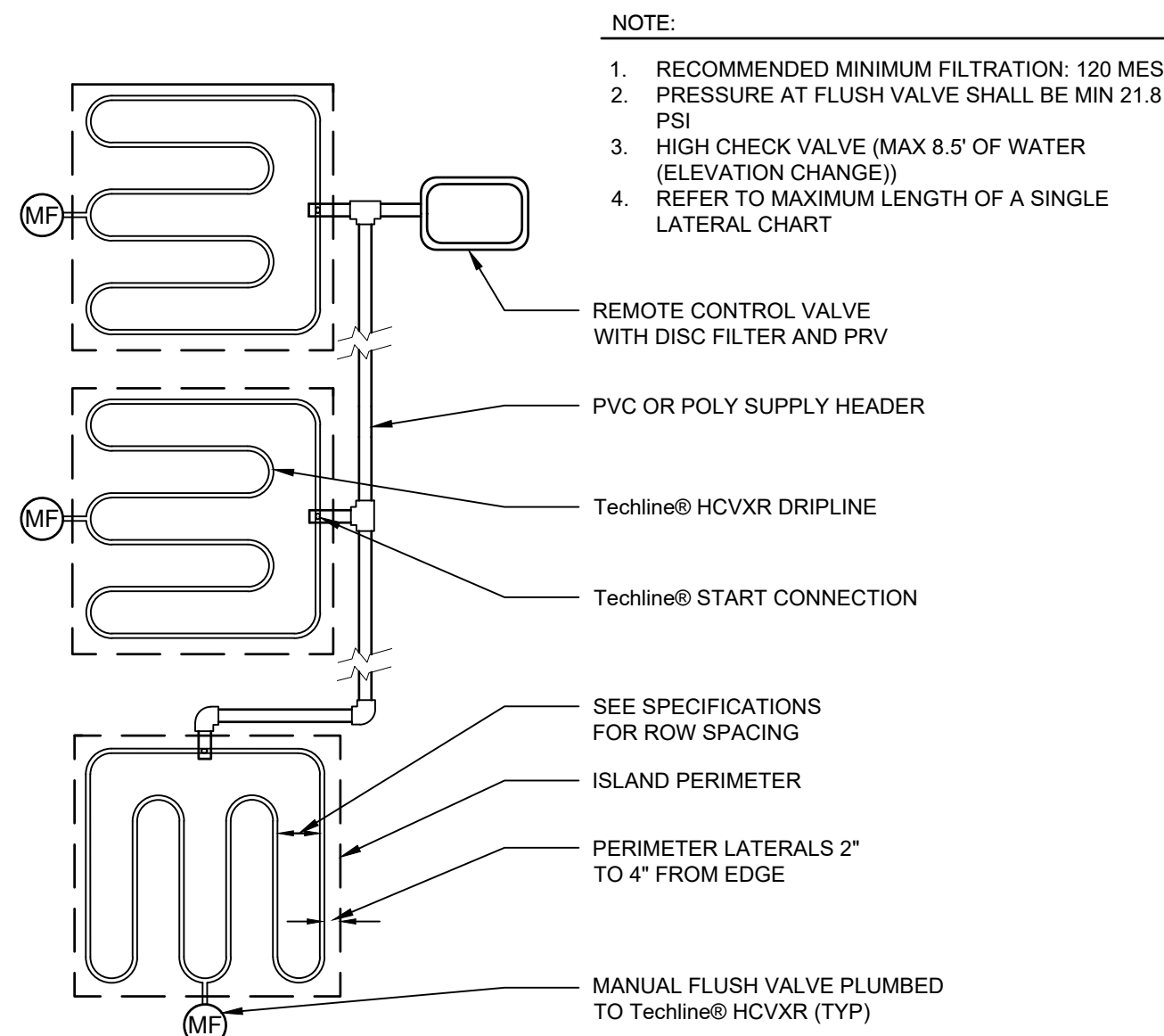


**3 POP-UP SPRINKLER HEAD**  
N.T.S. P-PU-RAC-05



- NOTES:**
- CENTER FEED LITE LAYOUTS ALLOW 2X MAX TUBING LENGTH OF STANDARD LAYOUTS.
  - CHECK VALVE HOLDS BACK 8.5' OF WATER MAX LINE DISTANCE FOR CENTER FEED LITE LAYOUT @ 57 PSI INLET; REFER TO FULL CHART FOR ALTERNATE PRESSURES:
- |                         |                        |
|-------------------------|------------------------|
| .33 @ 12" o.c. = 1,056' | .77 @ 12" o.c. = 606'  |
| .33 @ 18" o.c. = 1,504' | .77 @ 18" o.c. = 864'  |
| .53 @ 12" o.c. = 774'   | 1.16 @ 12" o.c. = 460' |
| .53 @ 18" o.c. = 1,104' | 1.16 @ 18" o.c. = 658' |

**7 TECHLINE HCVXR LITE IRREGULAR AREAS**  
N.T.S. P-PU-RAC-21



**6 HCVXR LITE ISLAND LAYOUT**  
N.T.S. P-PU-RAC-21

Mr. D. 07/23 1:38:35pm User: jacob.mitchell  
N:\PROJECTS\2022\0711 OF LACEY\22-000313 RAC PARKING LOT DESIGN\CADD\22-000313\_X-IR.DWG

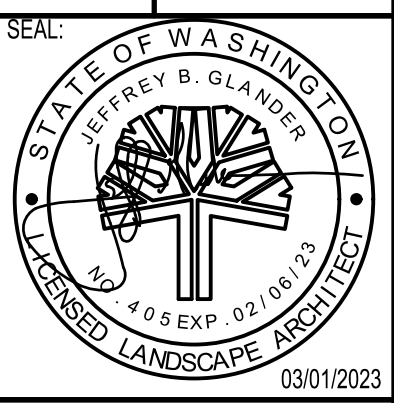
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**IRRIGATION NOTES AND DETAILS**  
RAC PARKING LOT EXPANSION  
8345 STEILACOM RD SE  
LACEY, WA



DESIGNER:	J. MCFARLAND
DRAWN BY:	J. MCFARLAND
APPROVED BY:	J. GLANDER
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DRAWING NO:	LS-11
SHEET NO:	35 OF 44



SEC. 14, T 18N., R 1W., W.M.

GENERAL CONSTRUCTION NOTES

- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL BE FAMILIAR WITH THE SITE AND CONDITIONS, AND SHALL NOT RELY SOLELY ON REVIEW OF THE DOCUMENTS IN DETERMINING THE EXTENT OF WORK REQUIRED. COORDINATION OF THESE DRAWINGS WITH REQUIREMENTS FOR CONTRACT WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND UTILITY FEES.
- SEE EACH SHEET FOR ADDITIONAL GENERAL NOTES THAT ARE SPECIFIC TO AN AREA OR SHEET.
- MATERIALS AND WORKMANSHIP SHALL FULLY COMPLY WITH THE REQUIREMENT OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (N.F.P.A. #70), THE LAWS AND REGULATION OF WASHINGTON STATE, AND THE LOCAL AHJ OF ALL WORK AND MATERIAL TO BUILDING STANDARDS AND CODE UNLESS NOTED OTHERWISE.
- ALL PVC CONDUITS SHALL CONTAIN EQUIPMENT GROUNDING CONDUCTOR. ALL CONDUITS UNDER THE ROADWAY SHALL BE PVC SCHEDULE 80.

STREET LIGHTING CONSTRUCTION NOTES

- ALL WORK TO BE PROVIDED AND INSTALLED PER THE CITY OF LACEY AND WSDOT STANDARDS.
- PROVIDE POLE AND BRACKET CABLE UP EACH POLE.
- ALL LUMINARIES SHALL HAVE FUSES LOCATED AT THE POLE BASE.
- ALL SPLICES SHALL BE MADE IN JUNCTION BOXES.
- PROVIDE NUMBERING ON EACH POLE PER CITY OF LACEY STANDARDS.
- E.C. TO CONTACT THE LACEY PLANNING DEPARTMENT FOR THE MAXIMUM ALLOWED POLE HEIGHT PRIOR TO ORDERING.

ADDITIVE ALTERNATES

- 1** **ADDITIVE ALTERNATE #1:**  
**BASE**  
 UNDER BASE BID, PROVIDE ROUGH-IN ONLY FOR FUTURE EV CHARGING STATION #5, AS NOTED IN THESE DRAWINGS.  
**ALTERNATE:**  
 UNDER ALTERNATE BID, FURNISH AND INSTALL EV CHARGING STATION #5, CHARGEPOINT CPE250, 480V/3P EV CHARGING STATION, COMPLETE WITH ALL HARDWARE, TERMINATIONS, APPURTENANCES, AND COMMISSIONING FOR A FULLY FUNCTIONAL SYSTEM. PROVIDE WITH 5-YEAR SERVICE AGREEMENT AND CLOUD PLAN.
- 2** **ADDITIVE ALTERNATE #2:**  
**BASE**  
 UNDER BASE BID, PROVIDE ROUGH-IN ONLY FOR FUTURE EV CHARGING STATION #6, AS NOTED IN THESE DRAWINGS.  
**ALTERNATE:**  
 UNDER ALTERNATE BID, FURNISH AND INSTALL EV CHARGING STATION #6, CHARGEPOINT CPE250, 480V/3P EV CHARGING STATION, COMPLETE WITH ALL HARDWARE, TERMINATIONS, APPURTENANCES, AND COMMISSIONING FOR A FULLY FUNCTIONAL SYSTEM. PROVIDE WITH 5-YEAR SERVICE AGREEMENT AND CLOUD PLAN.

**ELECTRICAL LEGEND**

SYMBOL	DESCRIPTION
<b>LIGHTING</b>	
	PARKING LOT POLE LIGHT FIXTURE (ARROW INDICATES DIRECTION OF AIMING FOR OPTICS)
	STREET LIGHT FIXTURE (ARROW INDICATES DIRECTION OF AIMING FOR OPTICS)
<b>EQUIPMENT, WIRING AND RACEWAYS</b>	
	CONDUIT STUB OUT (PROVIDE CONCRETE MARKER ON EXTERIOR)
	DEDICATED CONDUIT HOMERUN TO PANEL & CIRCUIT NUMBERS AS INDICATED ON PLANS
	RACEWAY CONCEALED IN WALL OR CEILING
	RACEWAY CONCEALED UNDERGROUND OR UNDER FLOOR SLAB, P = PRIMARY, S = SECONDARY
	MARKS INDICATE NUMBER OF #12 AWG UNLESS NOTED OTHERWISE
	GROUNDING CONDUCTOR
	JUNCTION BOX - SIZE PER CODE
	SITE HANDHOLE
<b>MISCELLANEOUS</b>	
	CONSTRUCTION NOTES
	DEMOLITION NOTES
W	W INDICATES WEATHERPROOF FOR ALL DEVICES, PROVIDE LOCKING COVER ON RECEPTACLES.
WG	WG INDICATES WIRE GUARD
	ALL DEVICES WITH LIGHT LINE WEIGHT INDICATES EXISTING TO BE RETAINED
	ALL DEVICES WITH DASH LINE INDICATES EXISTING TO BE REMOVED
	DETAIL CALL OUT - A INDICATES DETAIL IDENTIFICATION, X INDICATES SHEET DRAWN ON
<b>CCTV SYSTEM</b>	
	FIXED POLE MOUNT CAMERA - MOUNT AT +30' AFG. PROVIDE CAMERA AND ACCESSORIES AS SPECIFIED FOR EACH LOCATION.

ELECTRICAL ABBREVIATIONS	
AIC	AMPERE INTERRUPTING CAPACITY
AFC	AVAILABLE FAULT CURRENT
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C.	CONDUIT
CO	CONDUIT ONLY
CU	COPPER
EMT	ELECTRICAL METALLIC TUBING
FLA	FULL LOAD AMPERE(S)
G	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GR	GROUND
KVA	KILOVOLT-AMPERE(S)
KW	KILOWATT(S)
LCP	LIGHTING CONTROL PANEL
LED	LIGHT-EMITTING DIODE(S)
LTG	LIGHTING
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NTS	NOT TO SCALE
PH	PHASE
SCH	SCHEDULE
SPD	SURGE PROTECTION DEVICE
UG	UNDER GROUND
V	VOLT(S)
VA	VOLT-AMPERE(S)
WR	WIRE(S)
XFMR	TRANSFORMER

**LIGHTING FIXTURE SCHEDULE**

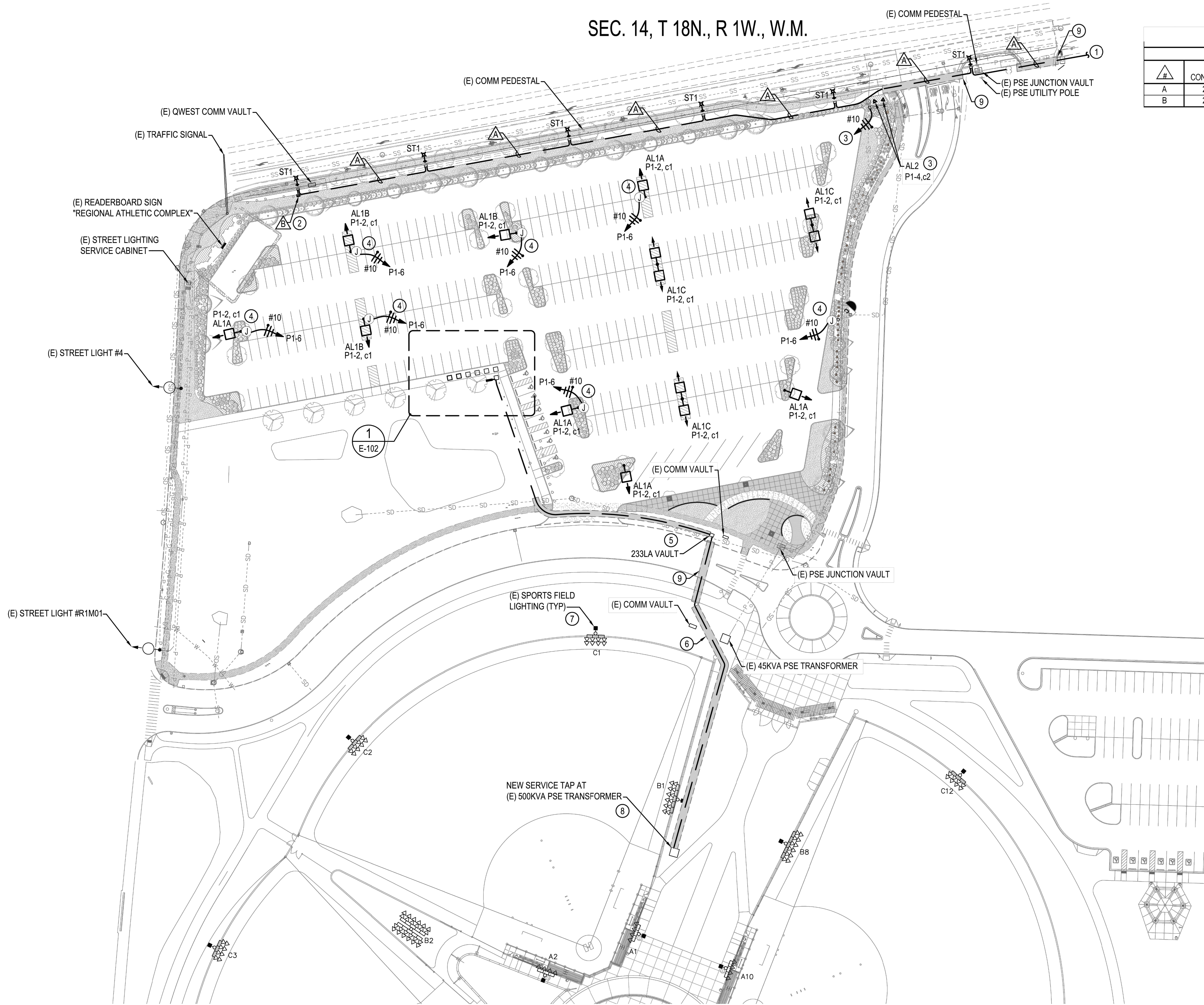
SYMBOL	FIXTURE DESCRIPTION	MANUFACTURER/MODEL #	LAMPS	V	W	MOUNTING & REMARKS
AL1A	SINGLE HEAD LED PARKING LOT FIXTURE	LITHONIA #: HEAD: DSX2 LED-XX-40K-70CRI-XXX-MVOLT-RPA-NLTAIR2-PIRH-N-DLX POLE: RSS-5B-DM19-TP-DBLBXD	LED 4000K	120/277	160	PROVIDE WITH 5" DIAMETER 30' STEEL ROUND POLE
AL1B	SINGLE HEAD LED PARKING LOT FIXTURE	LITHONIA #: HEAD: DSX2 LED-XX-40K-70CRI-XXX-MVOLT-RPA-NLTAIR2-PIRH-N-DLX POLE: RSS-5B-DM19-TP-DBLBXD	LED 4000K	120/277	160	PROVIDE WITH 5" DIAMETER 30' STEEL ROUND POLE
AL1C	DOUBLE HEAD LED PARKING LOT FIXTURE	LITHONIA #: HEAD: DSX2 LED-XX-40K-70CRI-XXX-MVOLT-RPA-NLTAIR2-PIRH-N-DLX POLE: RSS-5B-DM28-TP-DBLBXD	LED 4000K	120/277	320	PROVIDE WITH 5" DIAMETER 30' STEEL ROUND POLE
AL2	LED WIDE BEAM FLOOD LIGHT	BEGA # 77479-K40 (BLK)	LED 4000K	120/277	17.9	PROVIDE WITH DIRECT BURIAL WIRING BOX AND 180-DEGREE GLARE SHIELD. SEE 5/E-701 FOR BASE DETAIL. INSTALL FIXTURES 4FT FROM BASE OF WALL AND AIM FOR EVEN DISTRIBUTION OF LIGHT.
ST1	CITY OF LACEY STREET LIGHTING FIXTURE	PHILLIPS LUMEC #: STREET LIGHT: RFM-72W32LED4K-G2-R3M-UNIV-RCD PEDESTRIAN LIGHT: L80-STYLE LANTERN BASE: OLYMPIC FOUNDARY FG3548-BK  FINISH: TEXTURED BLACK POWDER COAT	LED 70 CRI 4000K 8780 DELIVERED LUMENS BUG RATING B2-U0-G2 INPUT DESIGNATOR "B"	240	70	PROVIDE 30'-0" ROUND TAPERED ALUMINUM POLE WITH HANDHOLE AT BASE LOCATED 90-DEGREES FROM BRACKET ARM.  PROVIDE 6'-0" LONG TAPERED ARM FOR STREET LIGHT AND AN SFS ADAPTER AT 15'-0" FOR PEDESTRIAN SCALE FIXTURE.

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SHEET TITLE: <b>ELECTRICAL LEGEND AND LIGHTING SCHEDULE</b> PROJECT NAME: <b>RAC PARKING LOT EXPANSION</b> 8345 STELLACOOM RD SE LACEY, WA	
DESIGNER:	XX
DRAWN BY:	JM
APPROVED BY:	XX
DATE:	FEBRUARY 2023
JOB NO:	22-000313
DRAWING FILE NO:	222-147_E-001
DRAWING NO:	E-001
SHEET NO:	36 OF 44



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STREET LIGHTING FEEDER SCHEDULE				
#	CONDUIT SIZE	Copper		CIRCUIT NUMBER (EXISTING CABINET)
		CONDUCTOR SIZE & QUANTITY	CIRCUIT TYPE	
A	2" PVC	(2) #8 & (1) #8 GND	ILLUMINATION	1
B	2" PVC	PULLSTRING	SPARE	-

GENERAL NOTES

- COORDINATE ALL WORK WITH THE CITY OF LACEY PROJECT MANAGER. COORDINATE ALL OUTAGES A MINIMUM OF 2 WEEKS IN ADVANCE.
- COORDINATE ALL UTILITY WORK WITH PSE PRIOR TO STARTING.
- PROVIDE AND INSTALL A COMPLETE STREET LIGHTING SYSTEM PER THE CITY OF LACEY STANDARDS.
- REFER TO E-702 FOR STREET LIGHTING DETAILS.
- REFER TO E-601 ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL CONDUIT AND FEEDER INFORMATION.
- PROVIDE ANY UTILITY LOCATES AND POTHOLING REQUIRED TO AVOID CONFLICTS WITH EXISTING UNDERGROUND INFRASTRUCTURE.

CONSTRUCTION NOTES

- INTERCEPT, SPLICE, AND EXTEND EXISTING STREET LIGHTING CIRCUIT FROM NEAREST HANDHOLE LOCATED APPROXIMATELY 100FT EAST. COORDINATE OUTAGE WITH THE OWNER PRIOR TO STARTING WORK. EXISTING STREET LIGHTING CABINET IS LOCATED AT THE INTERSECTION OF STEELACOOM RD AND VIEWPORT RD.
- PROVIDE SPARE CONDUIT STUB ROUTED OUTSIDE THE FOOTPRINT OF THE SIDEWALK FOR FUTURE EXPANSION. PROVIDE WITH THREADED CAP AND REBAR MARKER BURIED 6" BELOW GRADE.
- PROVIDE NEW FLOODLIGHTING AT EXISTING MONUMENT SIGN. MOUNT 4FT FROM FACE OF SIGN AND AIM FOR EVEN ILLUMINATION. PROVIDE 1" C. WITH (2) #10 CU & (1) #10 CU GND FROM NEW TYPE 2 HANDHOLE LOCATED ADJACENT TO SIGN TO NEW PANEL "P1".
- PROVIDE NEMA 3R 277V-120V TRANSFORMER AND CONNECTION TO NEW CCTV ENCLOSURE. MOUNT TRANSFORMER INSIDE ENCLOSURE AND ROUTE CONDUIT AND WIRE CONCEALED IN POLE. SEE DETAIL 1/E-703 FOR ADDITIONAL INFORMATION. COORDINATE WITH CCTV INSTALLING VENDOR FOR ADDITIONAL REQUIREMENTS PRIOR TO ROUGH-IN.
- PROVIDE NEW VAULT WITH SLIP RESISTANT LID IN EXISTING LANDSCAPING STRIP. MATCH RIM ELEVATION TO EXISTING ADJACENT GRADE.
- PROVIDE POTHOLING AND/OR UTILITY LOCATES, AS REQUIRED, TO AVOID CONFLICTS WITH ANY EXISTING UNDERGROUND UTILITIES, THIS AREA.
- EXISTING SPORTS FIELD LIGHTING TO REMAIN.
- COORDINATE WITH PSE FOR SHUTDOWN AND CONNECTION OF SECONDARY FEEDER TAP AT EXISTING TRANSFORMER.
- CUT, PATCH, AND REPAIR EXISTING ROADWAY. COORDINATE SCHEDULING WITH THE OWNER TO MINIMIZE TRAFFIC INTERRUPTIONS.

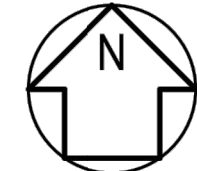
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**ELECTRICAL SITE PLAN**  
 RAC PARKING LOT EXPANSION  
 8345 STEELACOOM RD SE  
 LACEY, WA

SHEET TITLE:  
 PROJECT NAME:  
 SEAL:

DESIGNER: MM  
 DRAWN BY: JM  
 APPROVED BY: BH  
 DATE: FEBRUARY 2023  
 JOB NO: 22-000313  
 DRAWING FILE NO: 222-147\_E-101  
 DRAWING NO: E-101  
 SHEET NO: 37 OF 44

**1 ELECTRICAL SITE PLAN**  
 SCALE: 1" = 50'-0"

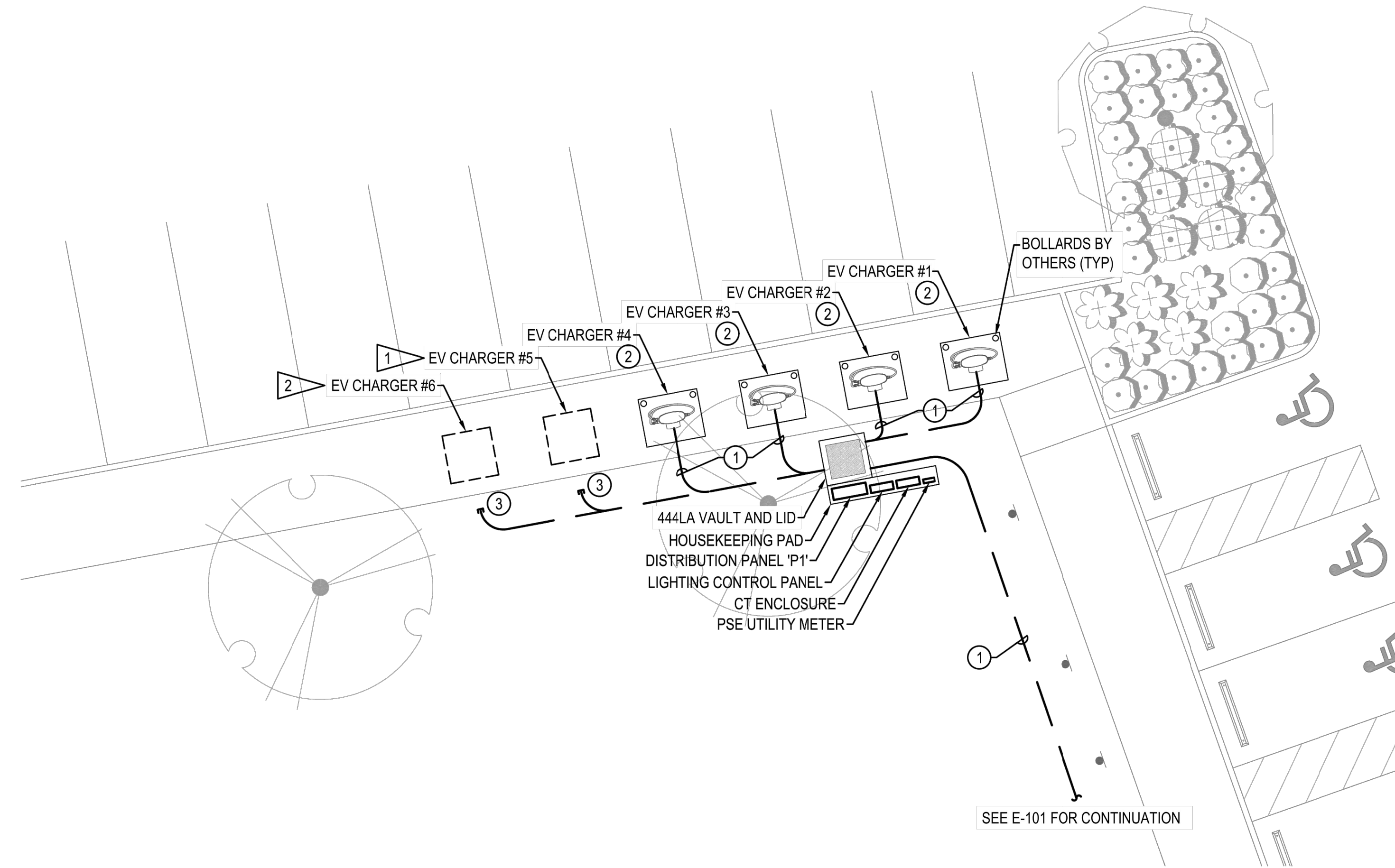


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GENERAL NOTES

- REFER TO E-601 ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL CONDUIT AND FEEDER INFORMATION.

CONSTRUCTION NOTES

- REFER TO E-601 ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL CONDUIT AND FEEDER INFORMATION.
- PROVIDE CHARGEPOINT CPE250, 480V/3P EV CHARGING STATION, COMPLETE WITH ALL HARDWARE, TERMINATIONS, APPURTENANCES, AND COMMISSIONING FOR A FULLY FUNCTIONAL SYSTEM. PROVIDE WITH 5-YEAR SERVICE AGREEMENT AND CLOUD PLAN.
- UNDER BASE BID, PROVIDE 1-1/2" CONDUIT STUB WITH PULLSTRING AND THREADED CAP. PROVIDE WITH REBAR MARKER BURIED 6" BELOW GRADE. LOCATE STUB 12" BEHIND SIDEWALK EDGE.

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SHEET TITLE: ELECTRICAL SITE PLAN  
 PROJECT NAME: RAC PARKING LOT EXPANSION  
 8345 STEILACOOM RD SE  
 LACEY, WA

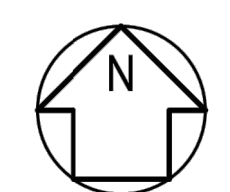
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 DRAWN BY: JM  
 APPROVED BY: BH  
 DATE: FEBRUARY 2023  
 JOB NO: 22-000313  
 DRAWING FILE NO: 222-147\_E-102  
 DRAWING NO: E-102  
 SHEET NO: 38 OF 44

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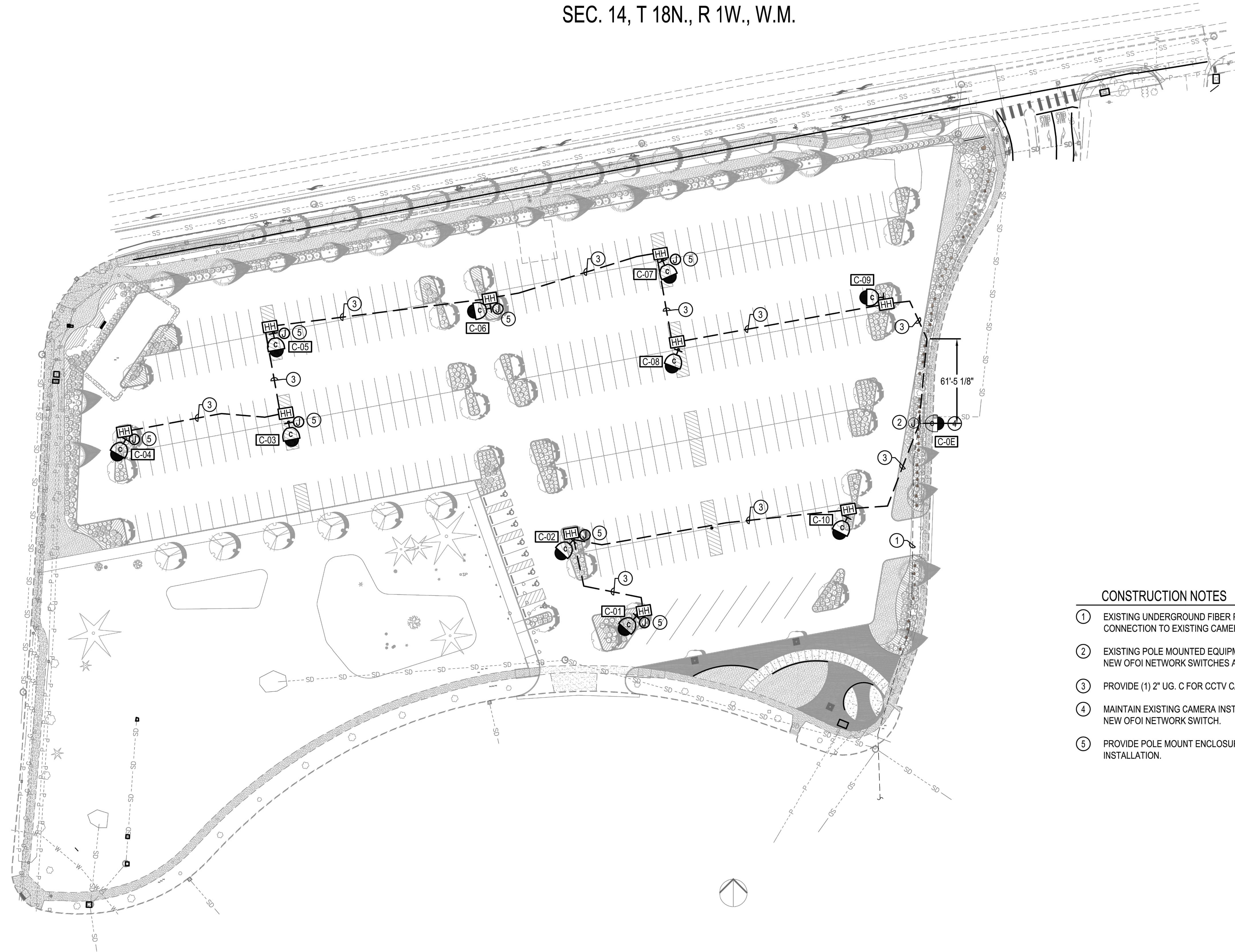
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1 ENLARGED POWER PLAN  
 SCALE: 1/8" = 1'-0"





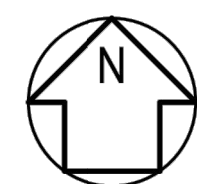
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**CONSTRUCTION NOTES**

- ① EXISTING UNDERGROUND FIBER PATHWAY TO REMAIN. MAINTAIN FIBER CONNECTION TO EXISTING CAMERA LOCATION.
- ② EXISTING POLE MOUNTED EQUIPMENT ENCLOSURE. UTILIZE FOR INSTALLATION OF NEW OFOI NETWORK SWITCHES AND CFCI FIBER MEDIA CONVERTERS.
- ③ PROVIDE (1) 2" UG. C FOR CCTV CABLING PATHWAY.
- ④ MAINTAIN EXISTING CAMERA INSTALLATION. PROVIDE CAT6 CONNECTION FROM NEW OFOI NETWORK SWITCH.
- ⑤ PROVIDE POLE MOUNT ENCLOSURE AS SPECIFIED FOR MEDIA CONVERTER INSTALLATION.

1 SECURITY SITE PLAN  
SCALE: 1" = 40'-0"



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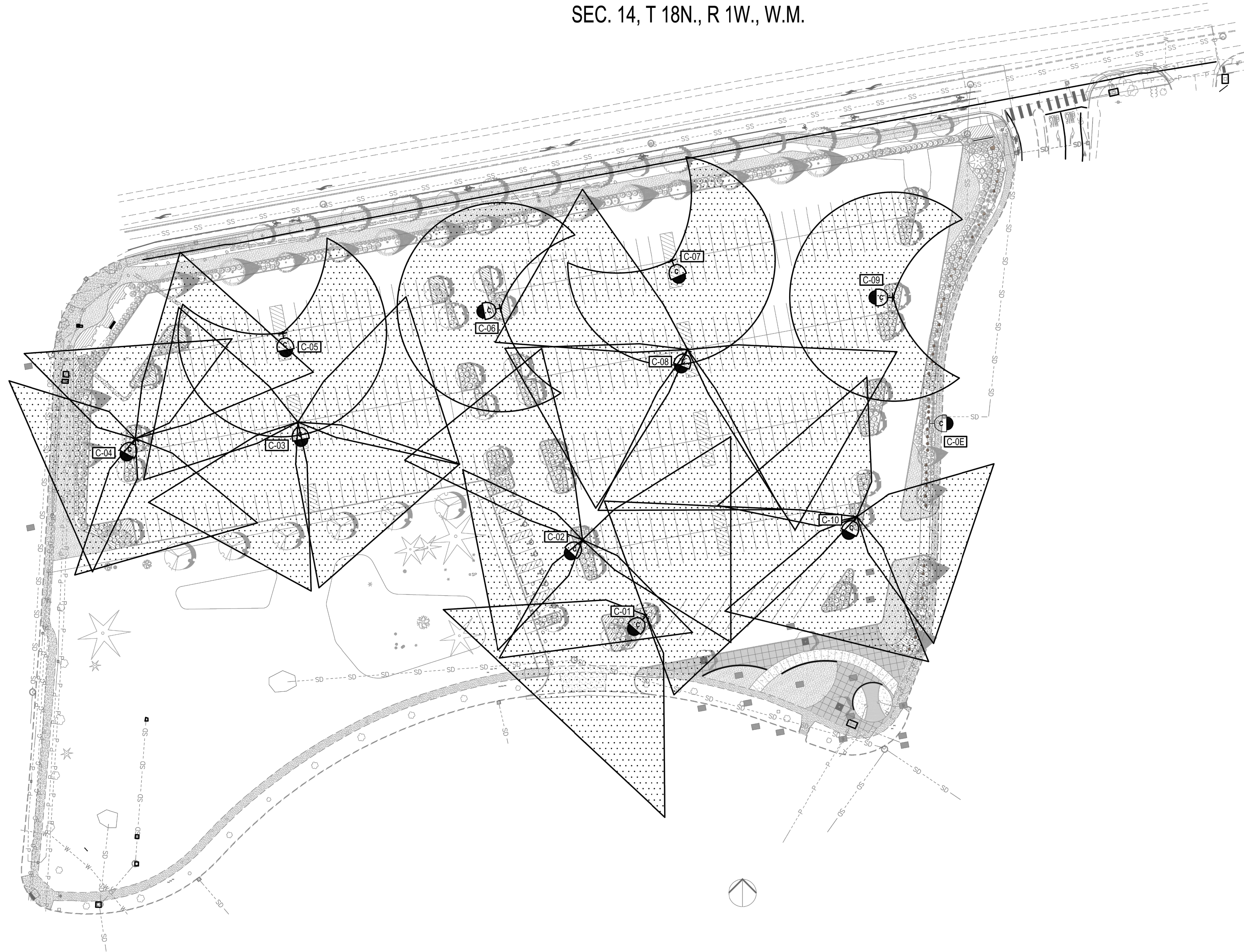
  
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 P: 360.352.1465 F: 360.367.1509  
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SHEET TITLE: SECURITY SITE PLAN  
 PROJECT NAME: RAC PARKING LOT EXPANSION  
 8345 STEILACOOM RD SE  
 LACEY, WA

DESIGNER: JR
DRAWN BY: JR
APPROVED BY: BH
DATE: FEBRUARY 2023
JOB NO: 22-000313
DRAWING FILE NO: 222-147_E-104
DRAWING NO: E-104
SHEET NO: 39 OF 44



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SHEET TITLE: SECURITY COVERAGE SITE PLAN  
 PROJECT NAME: RAC PARKING LOT EXPANSION  
 8345 STEILACOOM RD SE  
 LACEY, WA

SEAL:

DESIGNER: JR  
 DRAWN BY: JR  
 APPROVED BY: BH  
 DATE: FEBRUARY 2023  
 JOB NO: 22-000313  
 DRAWING FILE NO: 222-147\_E-105  
 DRAWING NO: E-105  
 SHEET NO: 40 OF 44



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GENERAL NOTES

- COORDINATE ALL WORK WITH THE CITY OF LACEY PROJECT MANAGER. COORDINATE ALL OUTAGES A MINIMUM OF 2 WEEKS IN ADVANCE.
- COORDINATE ALL UTILITY WORK WITH PSE PRIOR TO STARTING.
- REFER TO PANEL SCHEDULES FOR PANEL CONFIGURATION, ADDITIONAL SPARES / SPACES, AND OTHER REQUIREMENTS.
- ALL EQUIPMENT TO BE RATED NEMA 3R MINIMUM.

CONSTRUCTION NOTES

- PROVIDE SECONDARY SERVICE TAP IN EXISTING PSE TRANSFORMER. COORDINATE WITH PSE AND THE OWNER FOR ALL OUTAGES.
- PROVIDE NEW METER BASE AND ALL ASSOCIATED HARDWARE AND COMPONENTS PER PSE STANDARDS.
- PROVIDE NEW LOCKABLE CURRENT TRANSFORMER ENCLOSURE PER PSE STANDARDS.
- PROVIDE NEW LIGHTING CONTROL PANEL CAPABLE OF WIRELESSLY COMMUNICATING WITH EXISTING MUSCO CONTROL LINK CABINET LOCATED IN MAINTENANCE BUILDING APPROXIMATE 1000FT EAST OF PROJECT SITE. PROVIDE, AT A MINIMUM, SWITCHING ZONES NOTED IN THE CONTACTOR SCHEDULE THIS SHEET.
- UNDER BASE BID, PROVIDE SPARE BREAKER, SIZED AS NOTED.

PANEL: P1		3 PH		4 WIRE		VOLTAGE: 480Y/277V		600A MCB						
LOC: NORTHWEST PARKING LOT		MOUNT: FLUSH		FEED: BOTTOM		SF MAINS: NO		22,000AIC MINIMUM						
TYPE: NEMA 3R		POLES: 42												
LOAD TYPE	LOAD	CIRCUIT DIRECTORY	CIR. NO.	CIR. BRKR. P	AMP	A	B	C	CIR. BRKR. P	AMP	CIR. NO.	CIRCUIT DIRECTORY	LOAD	LOAD TYPE
D	22160		1	3		24400			1	20	2	PARKING LOT LIGHTING	2240	L
D	22160	EV CHARGER #1	3				22178		1	20	4	MONUMENT SIGN LIGHTING	18	L
D	22160		5		100			22660	1	20	6	CCTV POWER	500	L
D	22160		7	3		22160			1	20	8	SPARE		
D	22160	EV CHARGER #2	9				22160		1	20	10	SPARE		
D	22160		11		100			22160	1	20	12	SPARE		
D	22160		13	3		22160					14	SPARE		
D	22160	EV CHARGER #3	15				22160				16	SPARE		
D	22160		17		100			22160			18	SPARE		
D	22160		19	3		22160					20	SPARE		
D	22160	EV CHARGER #4	21				22160				22	SPARE		
D	22160		23		100			22160			24	SPARE		
D	22160		25	3							26	SPARE		
D	22160	EV CHARGER #5	27								28	SPARE		
D	22160		29		100						30	SPARE		
D	22160		31	3							32	SPARE		
D	22160	EV CHARGER #6	33								34	SPARE		
D	22160		35		100						36	SPARE		
D	22160	SPARE	37		3						38	SPD		
D	22160		39								40	SPD		
D	22160		41		100						42	SPD		
TOTAL			THIS PANEL			90880	88658	89140	TOTAL			2758		
TOTAL			THIS PANEL			90880	88658	89140	TOTAL CONNECTED LOAD (VA):			268,677.90		
TOTAL			THIS PANEL			90880	88658	89140	TOTAL CONNECTED CURRENT (A):			323.17		
TOTAL			THIS PANEL			90880	88658	89140	TOTAL DEMAND LOAD (VA):			269,367.38		
TOTAL			THIS PANEL			90880	88658	89140	TOTAL DEMAND CURRENT (A):			324.00		

5 1  
5 2

FEEDER SCHEDULE

ID	Ampacity	# Each	Conduit	#	AWG	GND
20S	20A	1	1"	2	#12 Cu	#12 Cu
60	60A	1	1"	4	#6 Cu	#10 Cu
100	100A	1	1 1/2"	4	#2 Cu	#8 Cu
600	600A	2	4"	4	#500 Al	-

NOTE:  
THE ABOVE TABLE IS BASED ON FILL FOR RIGID STEEL CONDUIT. OTHER TYPES OF CONDUITS MAY RESULT IN SIZE ADJUSTMENTS.

LIGHTING CONTACTOR SCHEDULE

CONT. ID	ZONE DESCRIPTION
c1	NORTHWEST PARKING LOT LIGHTING
c2	STEILACOOM RD MONUMENT SIGN
c3	SPARE
c4	SPARE

DATE	BY

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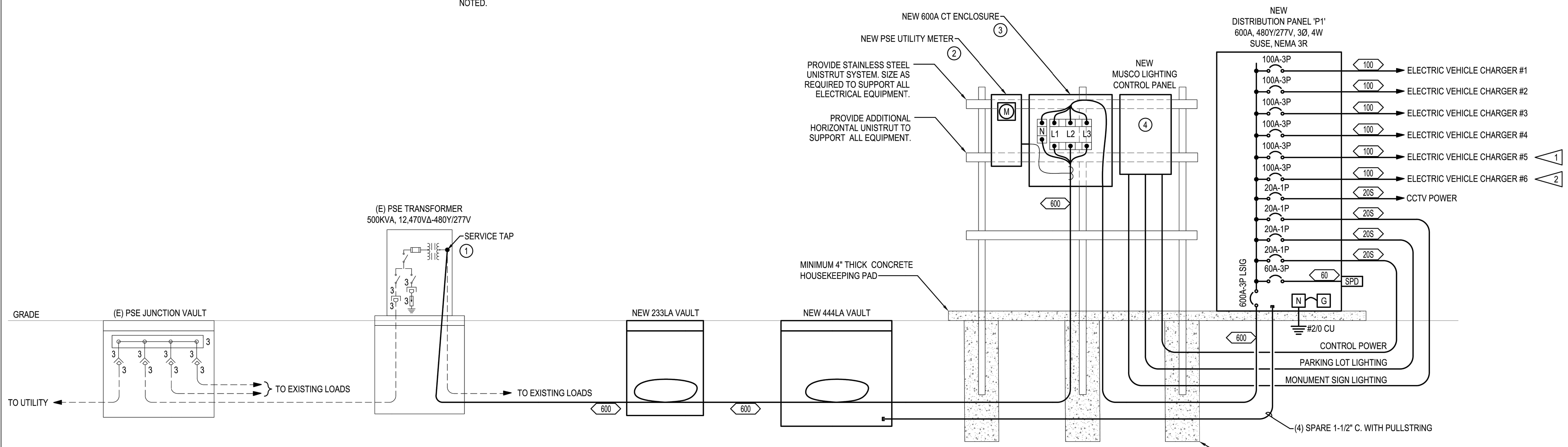
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SHEET TITLE: ONE-LINE DIAGRAM AND PANEL SCHEDULE  
PROJECT NAME: RAC PARKING LOT EXPANSION  
8345 STEILACOOM RD SE LACEY, WA

DESIGNER: MM  
DRAWN BY: MM  
APPROVED BY: BH  
DATE: FEBRUARY 2023  
JOB NO: 22-000313  
DRAWING FILE NO: 222-147\_E-601  
DRAWING NO: E-601  
SHEET NO: 41 OF 44

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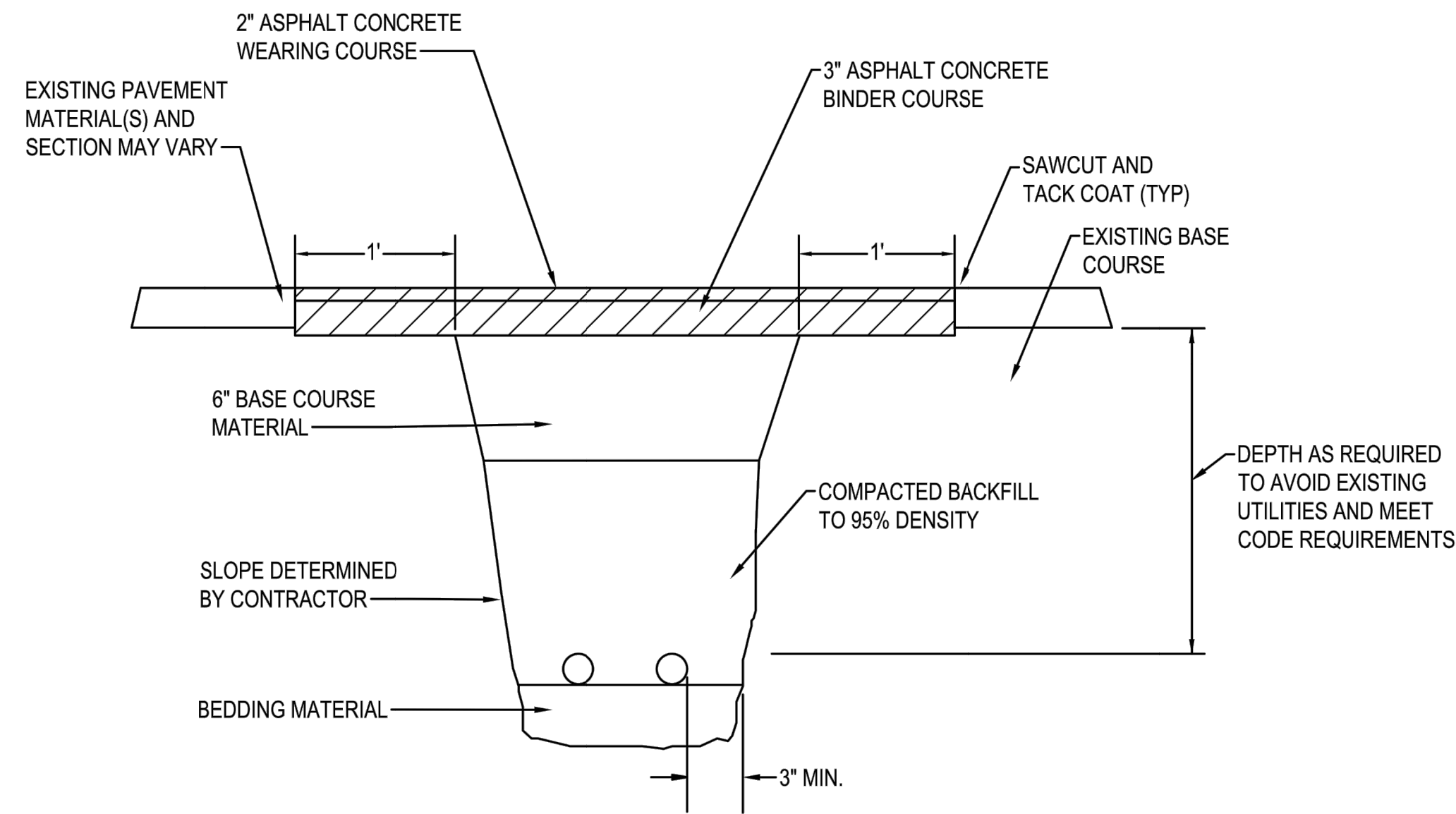
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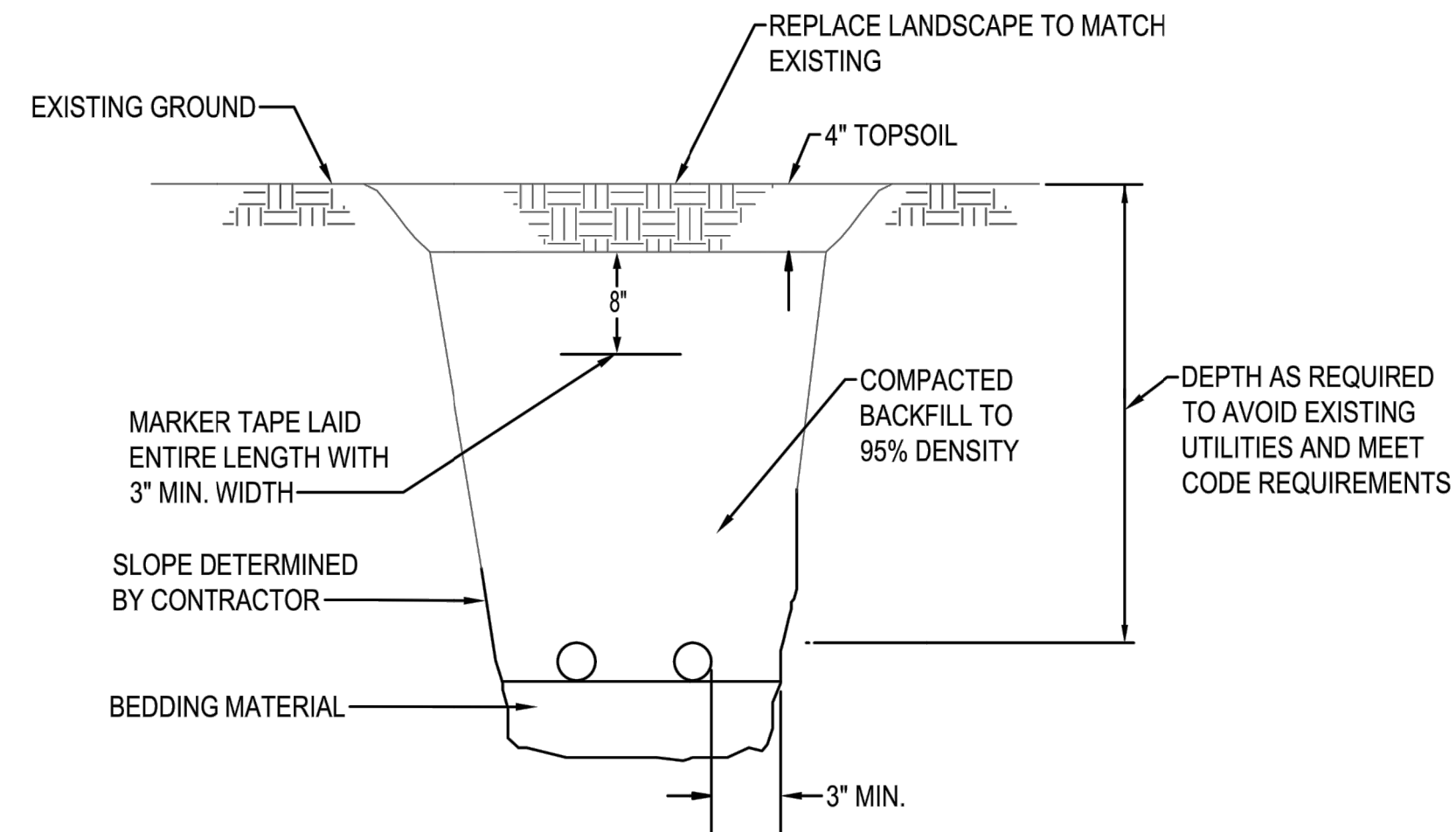
1 ONE-LINE DIAGRAM  
SCALE: DIAGRAMMATIC



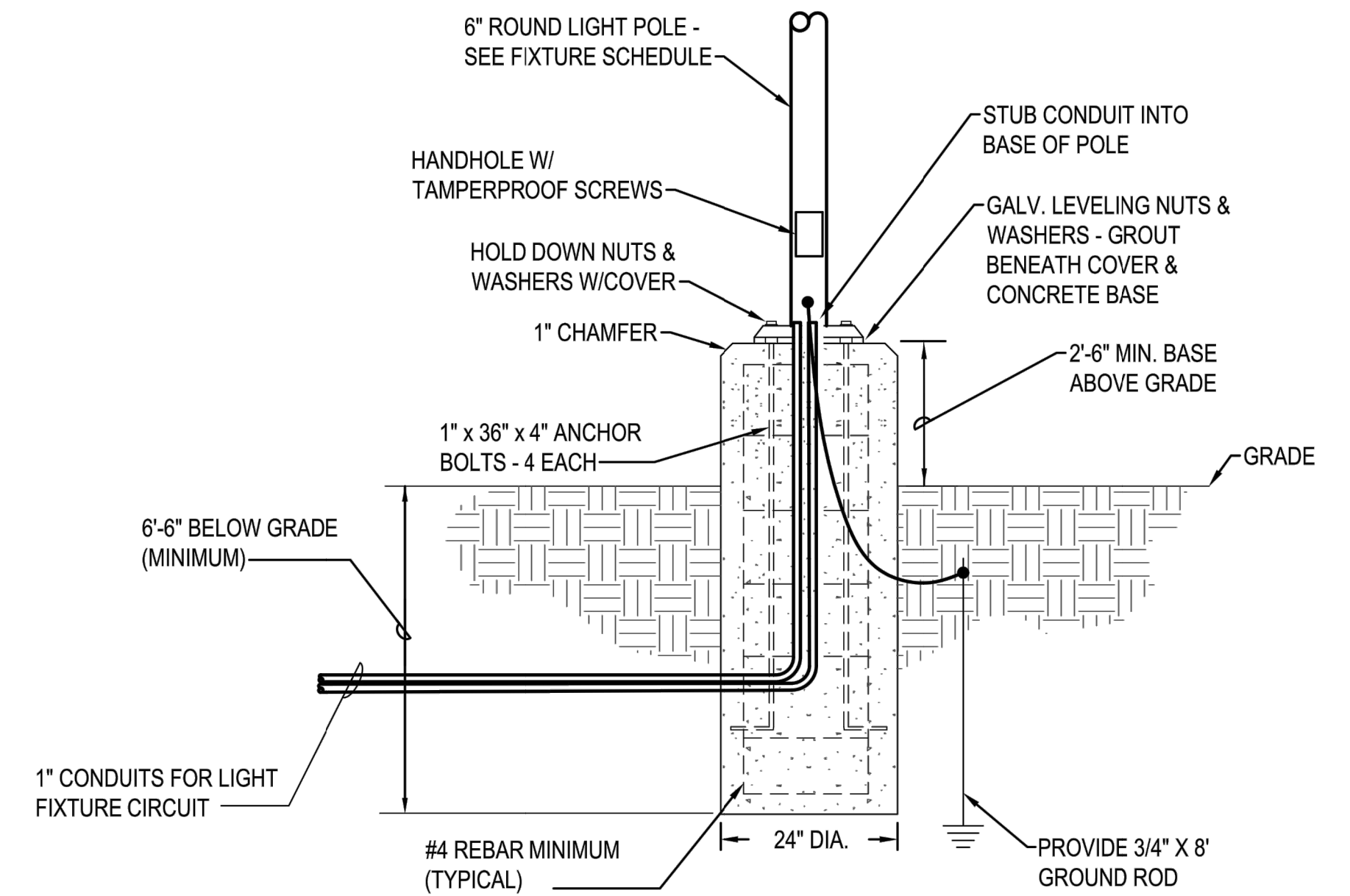
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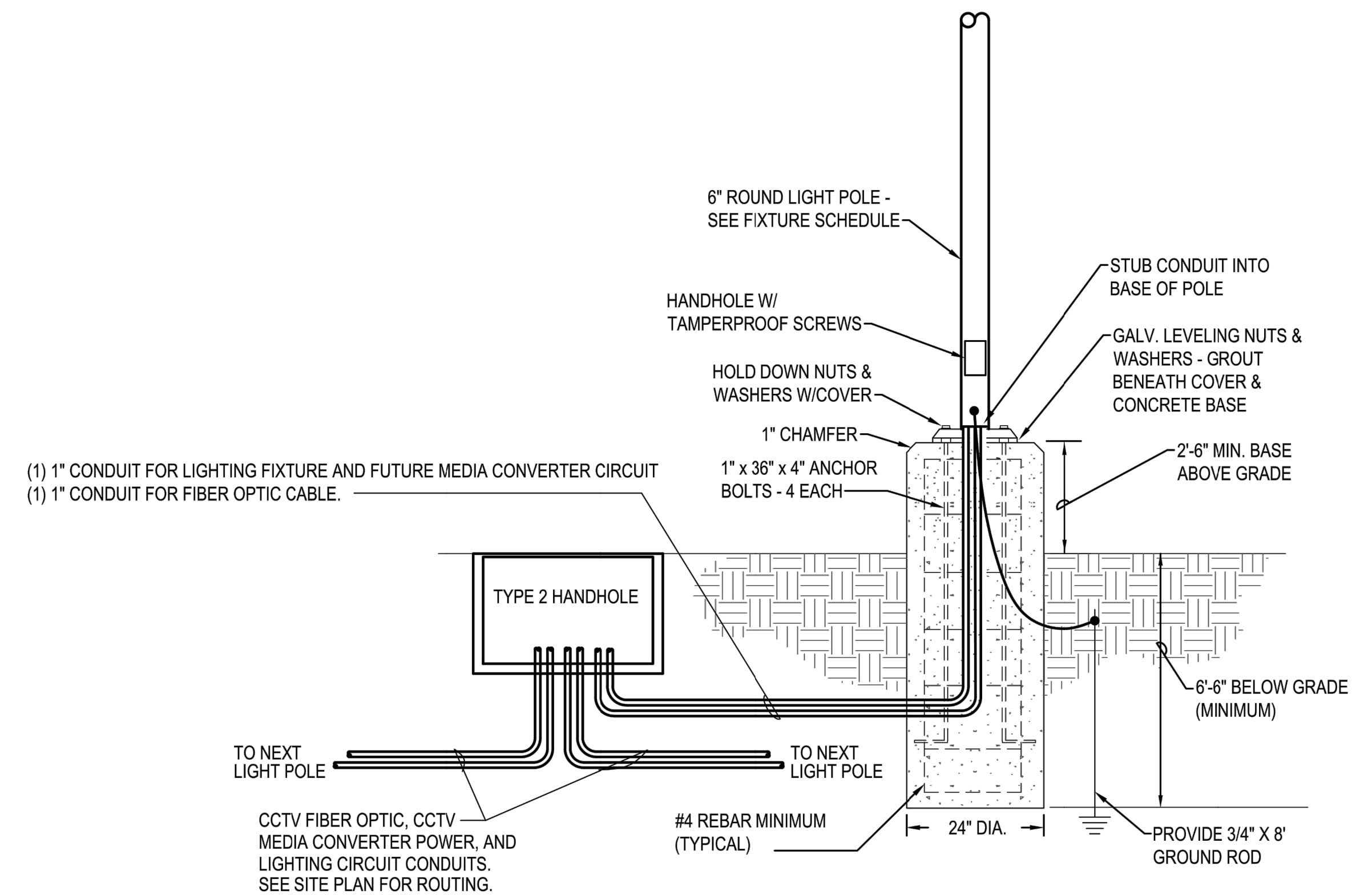
1 DIRECT BURY RACEWAY - ASPHALT AREAS  
SCALE: DIAGRAMMATIC



2 DIRECT BURY RACEWAY - LANDSCAPE AREAS  
SCALE: DIAGRAMMATIC



3 PARKING LOT POLE BASE DETAIL  
SCALE: DIAGRAMMATIC



4 PARKING LOT LIGHT POLE AT CCTV LOCATIONS  
SCALE: DIAGRAMMATIC

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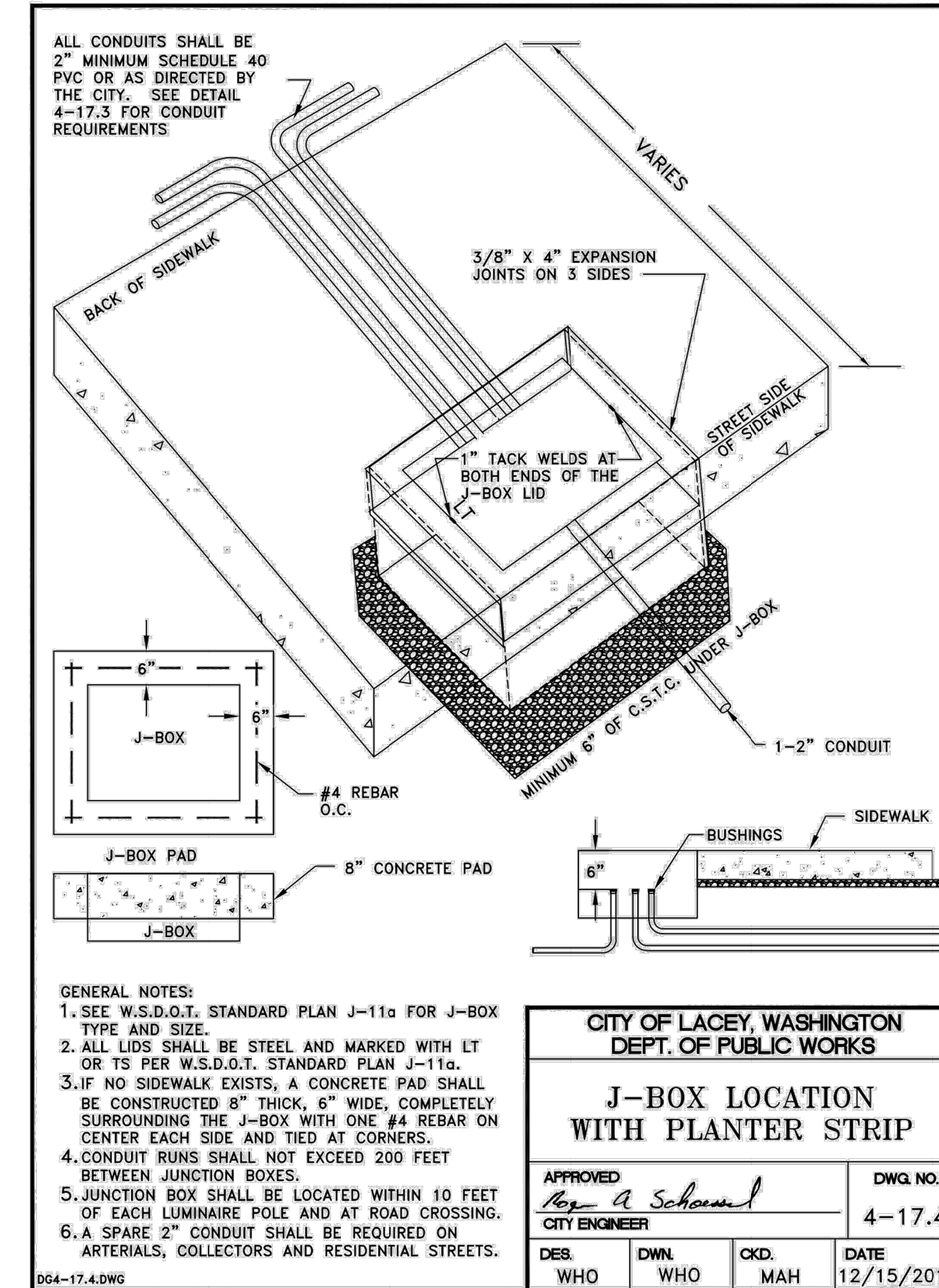
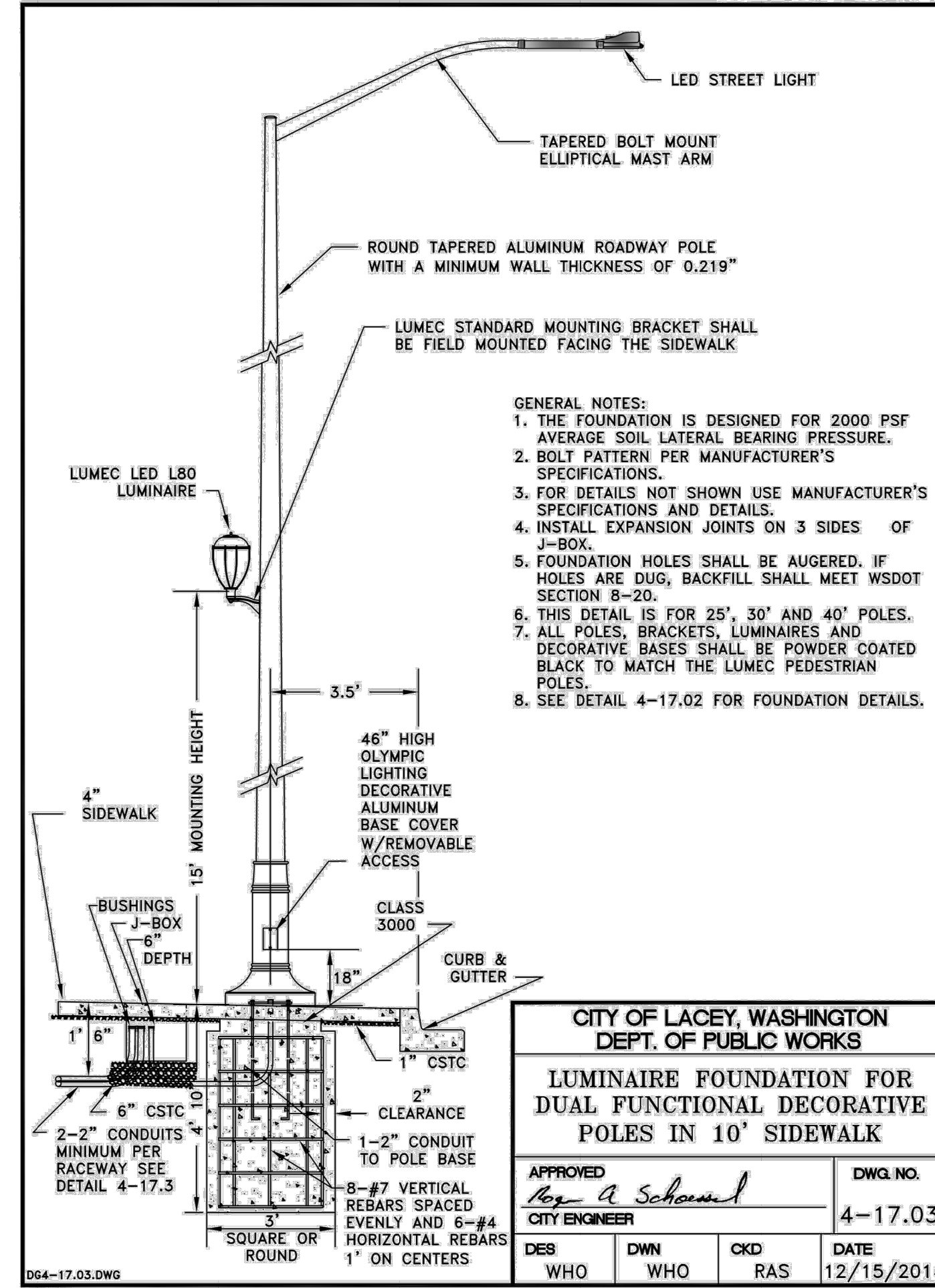
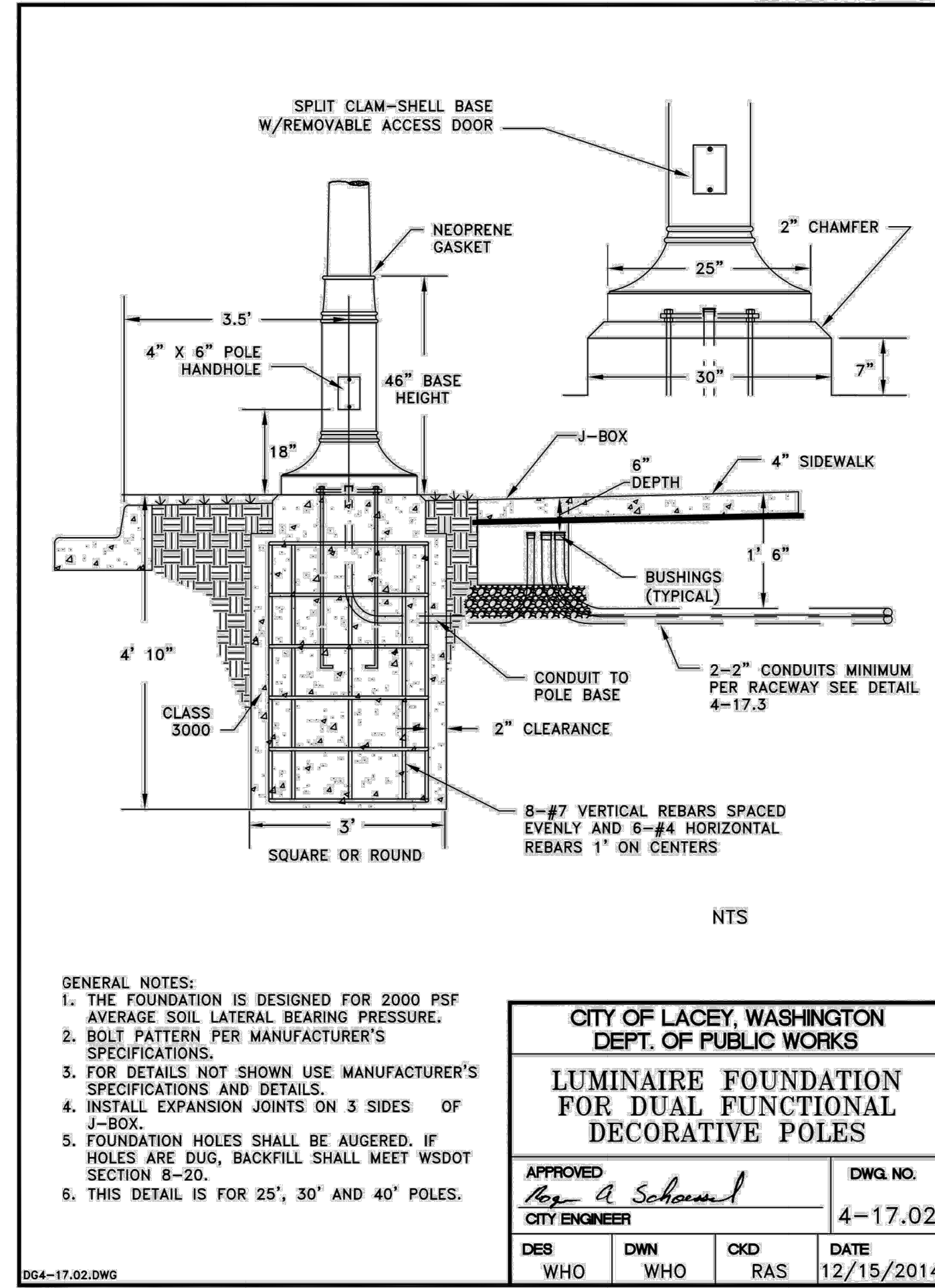
**ELECTRICAL DETAILS**  
PROJECT NAME:  
RAC PARKING LOT EXPANSION  
8345 STEILACOOM RD SE  
LACEY, WA

SHEET TITLE:  
SEAL:

DESIGNER:  
MM  
DRAWN BY:  
JM  
APPROVED BY:  
BH  
DATE:  
FEBRUARY 2023  
JOB NO:  
22-000313  
DRAWING FILE NO:  
222-147\_E-701  
DRAWING NO:  
E-701  
SHEET NO:  
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**STREET LIGHTING DETAILS**

PROJECT NAME:  
 RAC PARKING LOT EXPANSION  
 8345 STEILACOOM RD SE  
 LACEY, WA

DESIGNER:  
MM

DRAWN BY:  
MM

APPROVED BY:  
BH

DATE:  
FEBRUARY 2023

JOB NO:  
22-000313

DRAWING FILE NO:  
222-147\_E-702

DRAWING NO:  
E-702

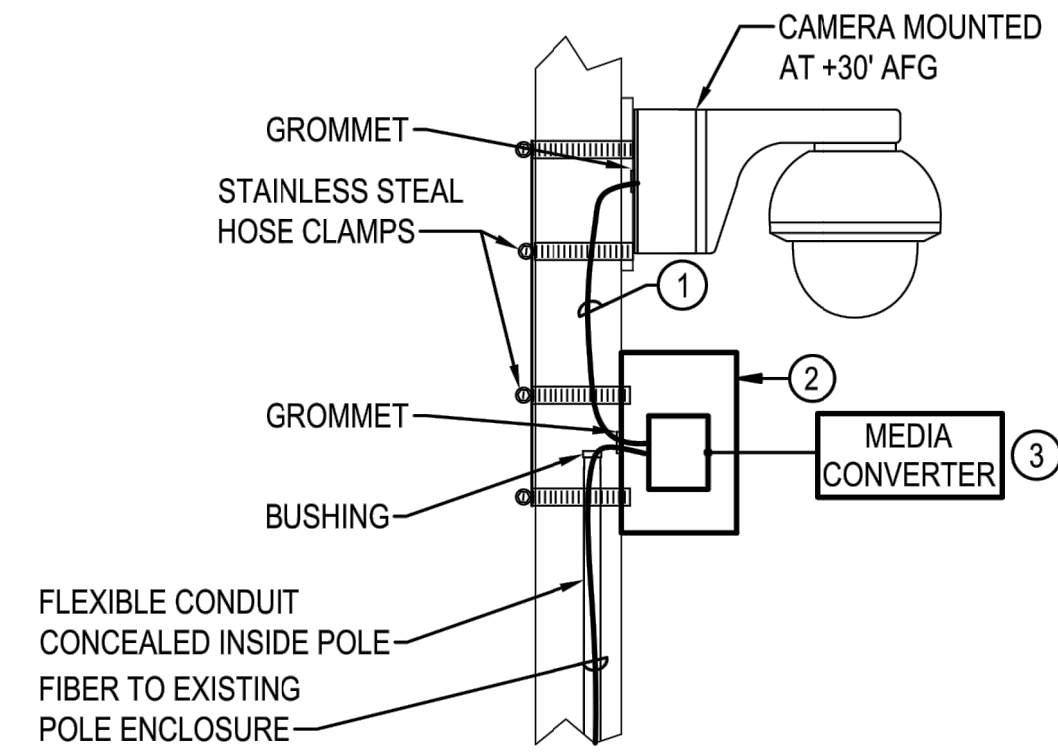
SHEET NO:  
43 OF 44

Mar 01, 2023 1:38:48pm - User: Michael Meyerdek  
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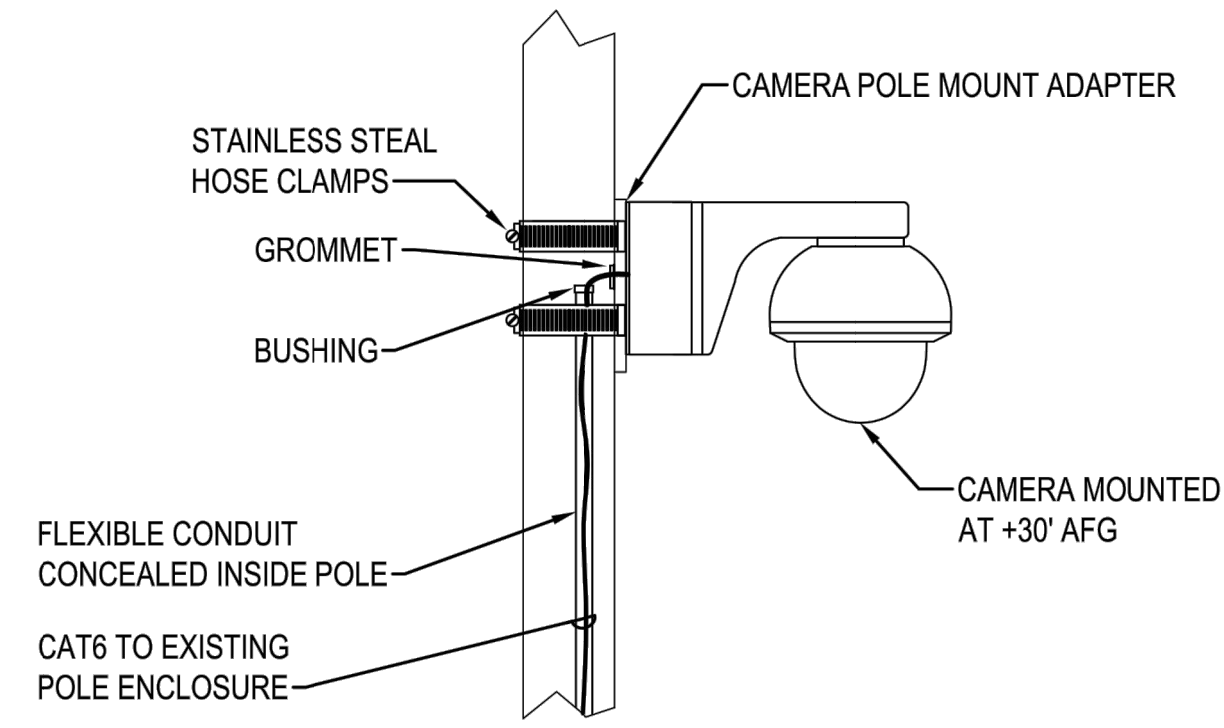
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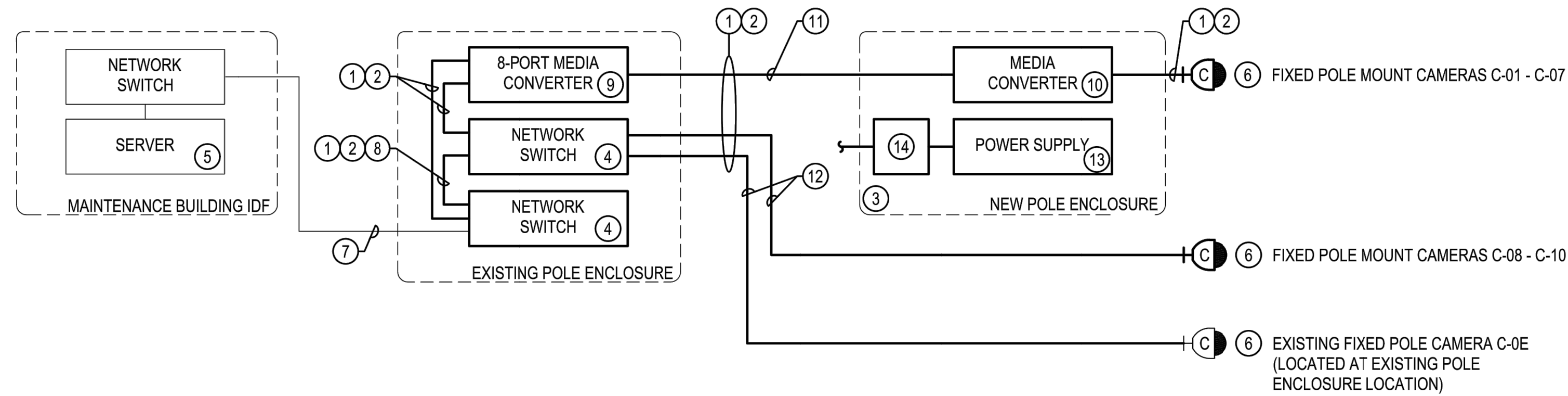
SEC. 14, T 18N., R 1W., W.M.



1 POLE MOUNT CCTV CAMERA (FIBER CONNECTION)  
DIAGRAMMATIC



2 POLE MOUNT CCTV CAMERA (CAT6 CONNECTION)  
DIAGRAMMATIC



3 CCTV SYSTEM RISER DIAGRAM  
DIAGRAMMATIC

CAMERA #	CAMERA TYPE	CAMERA MODEL	MOUNT TYPE	CONNECTION TYPE
C-01	SINGLE-SENSOR	AXIS Q3538-LVE	POLE	FIBER
C-02	360° MULTI-SENSOR	AXIS P3719-PLE	POLE	FIBER
C-03	360° MULTI-SENSOR	AXIS P3719-PLE	POLE	FIBER
C-04	360° MULTI-SENSOR	AXIS P3719-PLE	POLE	FIBER
C-05	180° MULTI-SENSOR	AXIS P3818-PVE	POLE	FIBER
C-06	180° MULTI-SENSOR	AXIS P3818-PVE	POLE	FIBER
C-07	180° MULTI-SENSOR	AXIS P3818-PVE	POLE	FIBER
C-08	360° MULTI-SENSOR	AXIS P3719-PLE	POLE	CAT6
C-09	180° MULTI-SENSOR	AXIS P3818-PVE	POLE	CAT6
C-10	360° MULTI-SENSOR	AXIS P3719-PLE	POLE	CAT6

4 CCTV SYSTEM CAMERA MATRIX  
DIAGRAMMATIC

POLE MOUNT CAMERA GENERAL NOTES

- FOR CLARITY, CONDUITS ARE NOT SHOWN, EXCEPT WHERE NOTED. SEE FLOOR PLANS FOR CONDUIT REQUIREMENTS.
- SECTION 27 20 00 SHALL PROVIDE THE TELECOMMUNICATIONS OUTLETS AND THE PATCH CABLES (SIZED TO FIT).

POLE MOUNT CAMERA CONSTRUCTION NOTES

- CAT6 PATCH CABLE (SIZED AS REQUIRED FOR EACH LOCATION).
- PROVIDE POLE-MOUNTED WEATHERPROOF NETWORK ENCLOSURE SPECIFIED IN 281300 TO HOUSE MEDIA CONVERTER FOR ALL POLE LOCATIONS. POWER MEDIA CONVERTER FROM 277VAC TO 115VAC TRANSFORMER AT THE POLE. SEE SITE PLANS FOR ADDITIONAL INFORMATION.

CCTV SYSTEM RISER DIAGRAM GENERAL NOTES

- THIS RISER DIAGRAM IS DIAGRAMMATIC IN NATURE.
- ALL EQUIPMENT SHOWN IS TYPICAL. SEE FLOOR PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE QUANTITIES AS REQUIRED.
- ALL EQUIPMENT, CCTV SYSTEM CABLING AND PROGRAMMING, SHALL BE THE RESPONSIBILITY OF ONE (1) INSTALLING VENDOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM. CLARIFICATION OF SCOPE OF WORK AND DEMARCATION POINT:
  - THE SECTION 27 20 00 DATA AND VOICE INFRASTRUCTURE INSTALLING VENDOR SHALL PROVIDE ALL CABLING AND EQUIPMENT AS IDENTIFIED IN CONSTRUCTION NOTE 2 (ON THIS SHEET). PATCH PANEL(S) AND DATA OUTLET(S) SHALL BE DEEMED THE DEMARCATION POINT. THE SECTION 282300 CLOSED CIRCUIT TELEVISION SYSTEM (CCTV) INSTALLING VENDOR SHALL PROVIDE ALL OTHER CABLING AND EQUIPMENT.

CCTV SYSTEM RISER DIAGRAM CONSTRUCTION NOTES

- CAT6 CABLES, FIBER CABLES, PATCH CORDS, CABLE LABELING SHALL BE INSTALLED, TERMINATED, AND TESTED BY SECTION 272000.
- PROVIDE WET RATED CABLES, AS REQUIRED BY CODE AND THE AHJ.
- PROVIDE POLE MOUNT ENCLOSURE FOR FIBER MEDIA CONVERTER INSTALLATION.
- PROVIDE POE++ NETWORK SWITCH FOR CCTV DATA CONNECTIONS.
- UTILIZE EXISTING/OFOI CCTV SERVER FOR PROGRAMMING OF NEW CAMERAS INTO EXISTING CCTV VMS. CAMERA LICENSES FOR ALL NEW CAMERAS SHALL BE OFCI.
- SEE THE CAMERA INSTALLATION DETAILS FOR ROUGH-IN AND TYPICAL INSTALLATION. REFER TO MANUFACTURERS RECOMMENDATIONS FOR ADDITIONAL REQUIREMENTS.
- UTILIZE EXISTING FIBER CABLING BETWEEN MAINTENANCE BUILDING AND EXISTING POLE ENCLOSURE FOR CONNECTION TO NEW OFOI POE NETWORK SWITCH.
- PROVIDE 2-STRAND MULTI-MODE FIBER PATCH CORD FOR CONNECTION BETWEEN POE++ NETWORK SWITCHES. PROVIDE SPECIFIED SFP TRANSCEIVERS AS NECESSARY.
- PROVIDE 8-PORT FIBER MEDIA CONVERTER IN THE EXISTING POLE ENCLOSURE FOR CCTV CAMERA LOCATIONS THAT EXCEED 295' RUN LENGTH OF NETWORK CABLING. PROVIDE SPECIFIED SFP TRANSCEIVERS AS NECESSARY.
- PROVIDE SINGLE PORT FIBER MEDIA CONVERTER IN THE NEW POLE ENCLOSURES FOR CCTV CAMERA LOCATIONS THAT EXCEED 295' RUN LENGTH OF NETWORK CABLING. PROVIDE SPECIFIED SFP TRANSCEIVERS AS NECESSARY.
- PROVIDE 2-STRAND MULTI-MODE FIBER FOR CONNECTION BETWEEN MEDIA CONVERTERS.
- PROVIDE CAT6 FOR CONNECTION BETWEEN NETWORK SWITCH AND CCTV CAMERAS.
- PROVIDE POWER SUPPLY AS SPECIFIED FOR MEDIA CONVERTERS.
- DEDICATED NON-SWITCHED 277V POWER TO BE PROVIDED AT EACH CCTV CAMERA DESIGNATED FOR FIBER MEDIA CONVERTER CONNECTIVITY. THE ELECTRICAL CONTRACTOR MUST PROVIDE A 277V TO 115VDC TRANSFORMER AT THE POLE MOUNT ENCLOSURE FOR CONNECTION TO THE FIBER MEDIA CONVERTER.

REVISIONS	DATE	BY

**SCJ ALLIANCE**  
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8730 TALLON LANE, SUITE 200, LACEY, WA 98516  
P: 360.352.1465 F: 360.352.1509  
SCJALLIANCE.COM

**SECURITY DETAILS**  
PROJECT NAME:  
RAC PARKING LOT EXPANSION  
8345 STEILACOOM RD SE  
LACEY, WA

DESIGNER: JR  
DRAWN BY: JR  
APPROVED BY: BH  
DATE: FEBRUARY 2023  
JOB NO: 22-000313  
DRAWING FILE NO: 222-147\_E-703  
DRAWING NO: E-703  
SHEET NO: 44 OF 44

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