LEWIS COUNTY RAINIER SITE IMPROVEMENTS
LEWIS COUNTY FACILITIES DEPARTMENT
351 NW NORTH STREET, CHEHALIS, WA 98532
J2037C

PROJECT INFORMATION

LEWIS COUNTY FACILITIES DEPARTMENT

351 NW NORTH STREET
CHEHALIS, WA 98532
DOUG CAREY
CONTACT EMAIL: DOUG.CAREY@LEWISCOUNTY WA.GOV
PHONE #: (360) 740-1337

PROJECT LOCATION

COUNTY SITE PARKING
CHEHALIS, WA 98532
DOUG CAREY
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PHONE #: (360) 740-1337

AUTHORITY HAVING JURISDICTION

CITY OF CHEHALIS BUILDING & PLANNING DEPARTMENT
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CHEHALIS, WA 98532
CONTACT PERSON: CHELBI BROWNE
CONTACT EMAIL: CBROWNE@CI.CHEHALIS.WA.US
PHONE# (360) 748-0271

DESIGN TEAM - SHEET

ARCHITECT

KMB ARCHITECTS
906 COLUMBIA STREET SW, SUITE 400
OLYMPIA, WASHINGTON 98501
JAMES HILL, RA- PRINCIPAL
360.352.8883

CIVIL

RB ENGINEER
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PHONE #: (360) 740-8919

ELECTRICAL

HARGIS
1201 THIRD AVENUE, STE 600
SEATTLE, WA 98101
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EMAIL: ERIK.STEARNS@HARGIS.BIZ
PHONE #: (206) 448-3376

PROJECT DESCRIPTION

THIS PROJECT INCORPORATES SITE IMPROVEMENTS TO THE RAINIER BLOCK BUILDINGS ADJACENT SITE AND DEVELOPMENT OF IMPROVEMENTS TO SIDEWALKS, SITE PARKING AND LANDSCAPING.

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY IN THE AREA OF WORK IN ACCORDANCE WITH ALL SAFETY CODES AND REQUIREMENTS.
2. KEEP ALL AREAS UNDER CONSTRUCTION CLEAN OF DEBRIS CAUSED BY THIS SCOPE OF WORK. STORE CONSTRUCTION MATERIALS AND EQUIPMENT IN DESIGNATED AREAS.
3. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING THE SITE CONDITIONS AND THE PLANS AND TO NOTIFY THE OWNER'S REP / ARCHITECT OF ANY ERRORS OR OMISSIONS PRIOR TO THE START OF CONSTRUCTION.
4. DO NOT SCALE DRAWINGS. NOTIFY ARCHITECT FOR CLARIFICATION WHERE NECESSARY.
5. CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED BY LOCAL AND STATE GOVERNING AUTHORITIES.
6. ALL WORK SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE LOCAL AND STATE GOVERNING AUTHORITIES. REFERENCE CODES, STANDARDS AND AMENDMENTS SHALL BE THE EDITION MOST RECENTLY ADOPTED OR IN USE IN THE JURISDICTION.
7. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD AND SHALL COORDINATE INSTALLATION OF ALL MATERIAL AND/OR EQUIPMENT WHOSE DIMENSIONS ARE FIXED.
8. CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES REQUIRED TO PERFORM THE WORK. WHERE INSTALLATION AND/OR CONNECTION OF EQUIPMENT IS NOT SPECIFIED AND WHERE SUCH CONNECTION AND/OR INSTALLATION IS REQUIRED FOR A COMPLETE AND OPERABLE FACILITY, THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR SUCH INSTALLATION AND/OR CONNECTION.
9. CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THIS WORK.
10. NO PORTION OF THE WORK REQUIRING A SHOP DRAWING OR SAMPLE SUBMISSION SHALL BE COMMENCED UNTIL THE SUBMISSION HAS BEEN APPROVED BY THE ARCHITECT. ALL SUCH PORTIONS OF THE WORK SHALL BE IN ACCORDANCE WITH APPROVED SHOP DRAWINGS AND SAMPLE.
11. ALL SUBCONTRACTORS ARE RESPONSIBLE FOR REVIEWING ENTIRE SET OF DRAWINGS AND BRINGING ANY DISCREPANCIES TO CONTRACTOR'S AND ARCHITECT'S NOTICE DURING BIDDING.

SHEET INDEX

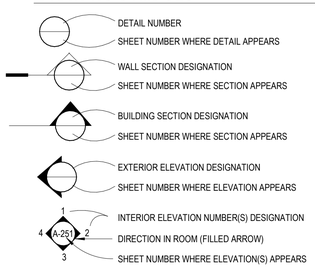
GENERAL
GI001 COVER SHEET

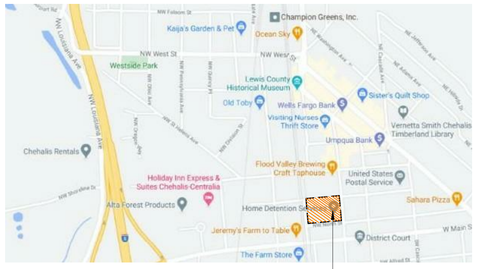
CIVIL
CVR CIVIL COVER SHEET & SITE LAYOUT
C-0.1 CONSTRUCTION PHASING PLAN
C-0.2 EXISTING SITE TOPO, UTILITIES, & DEMOLITION PLAN (RAINIER)
C-1.1 HORIZONTAL CONTROL PLAN (RAINIER BUILDING PARKING)
C-1.4 HORIZONTAL CONTROL DETAILS & NOTES
C-2.1 GRADING PLAN - RAINIER PARKING LOT
C-2.4 DRAINAGE PLAN - RAINIER BUILDING PARKING LOT
C-2.5 DRAINAGE DETAILS & NOTES
C-2.6 INTERSECTION DETAILS
C-3.1 CENTER STREET ROAD AND STORM PLAN AND PROFILE
C-3.3 NORTH STREET ROAD AND STORM PLAN AND PROFILE
C-3.4 CHEHALIS AVENUE ROAD AND STORM PLAN AND PROFILE
C-3.5 FRONTAGE IMPROVEMENT DETAILS AND NOTES
C-3.7 WATER AND SEWER SERVICES DETAILS AND NOTES

LANDSCAPE
L-100 COVER SHEET
L-200 LANDSCAPE PLAN- L-200
L-201 IRRAGATION PLAN - L-201
L-202 LARGE SCALE PLAN - L-202
L-600 SITE DETAILS - L-600
L-601 LANDSCAPE DETAILS - L-500
L-602 IRRAGATION DETAILS - L-602

ELECTRICAL
E0.01 ELECTRICAL LEGEND AND DRAWING INDEX
E0.02 ELECTRICAL NOTES AND ABBREVIATIONS
E1.01 RAINIER BUILDING ELECTRICAL SITE PLAN
E1.01a RAINIER BUILDING LIGHTING CONTROL ZONE SITE PLAN
E7.01 RAINIER BUILDING ELECTRICAL DETAILS
E9.01 RAINER BUILDING ELECTRICAL ONE-LINE DIAGRAM

DRAWING SYMBOLS





VICINITY MAP
SCALE: 1" = 400'-0"



AREA MAP
SCALE: N. T. S.

KMB architects
906 Columbia Street SW, Suite 400
Olympia, Washington 98501
360.352.8883

REGISTERED ARCHITECT
STATE OF WASHINGTON

KMB Project # J2037C

LEWIS COUNTY RAINIER SITE IMPROVEMENTS
LEWIS COUNTY FACILITIES DEPARTMENT
351 NW NORTH STREET, CHEHALIS, WA 98532
Facilities Department

ORIGINAL SHEET SIZE = 24 x 36
HALF SIZE REDUCTIONS = 11 x 17
REVISIONS:

DATE: 05-25-2023
CHECK SET
SHEET NO. GI001
COVER SHEET

PLOT DATE: 5/25/2023 2:14:40 PM

LEWIS COUNTY DOWNTOWN PROJECTS

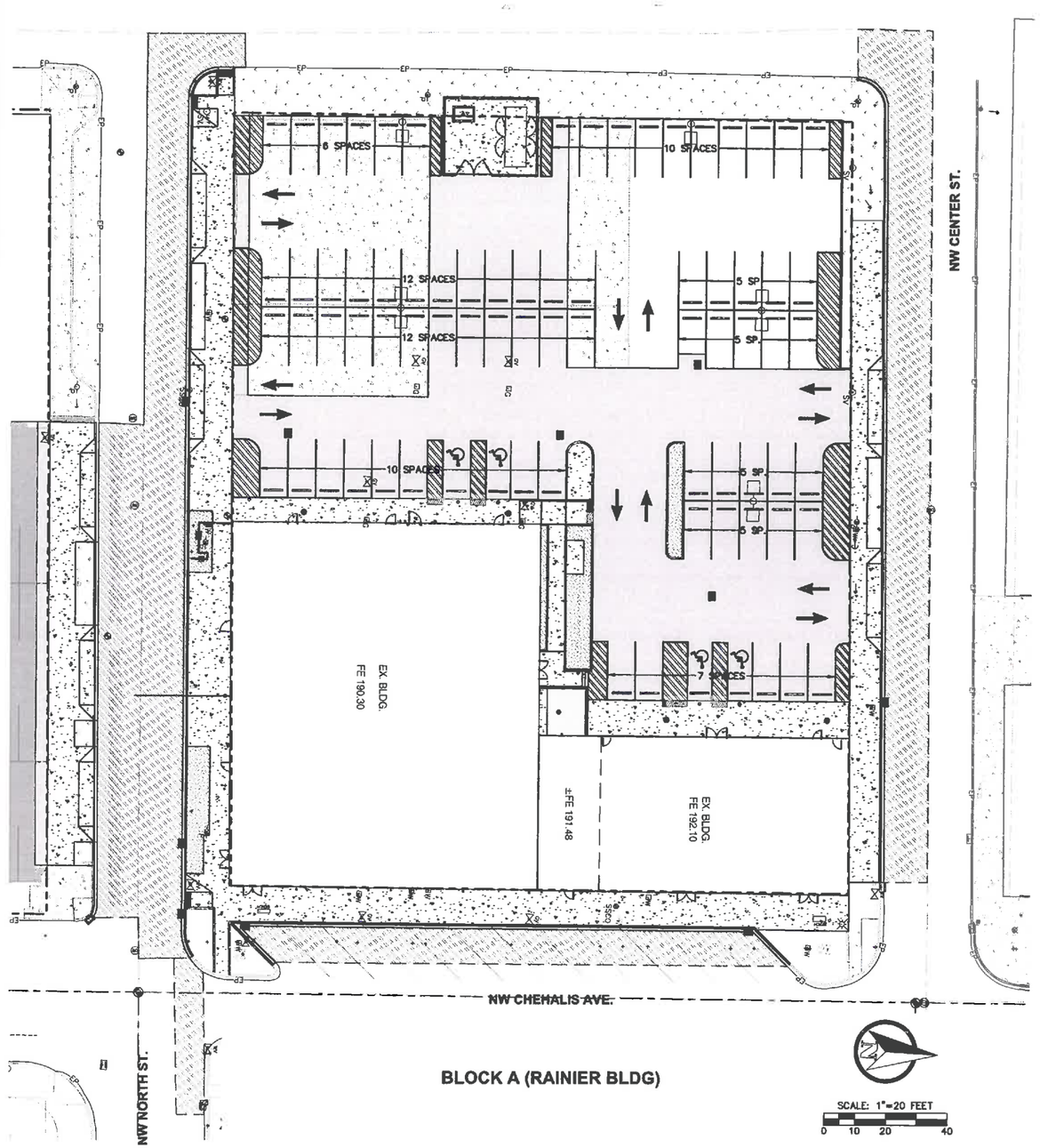
SECTION 32, TOWNSHIP 14 NORTH, RANGE 02 WEST WM

LEWIS COUNTY, WASHINGTON

LEGEND

EXISTING	PROPOSED	
W	W	WATER MAIN
SS	SS	SANITARY SEWER MAIN
FM	FM	FORCE MAIN
SD	SD	STORM MAIN
RD	RD	ROOF DRAIN
FD	FD	FOOTING DRAIN
G	G	GAS LINE
UGP	UGP	POWER LINE
T	T	TELEPHONE LINE
TV	CATV	CABLE TV LINE
		ROADWAY CENTERLINE
		RIGHT-OF-WAY LINE
		EASEMENT LINE
		FRONT/BACK OF CURB
		EDGE OF GRAVEL SHOULDER
EP		EDGE OF PAVEMENT
BO		BLOWOFF ASSEMBLY
		FIRE HYDRANT
		GATE VALVE
		THRUST BLOCKING
W		WATER METER BOX
		CAP/PLUG
		STORM DRAIN CATCH BASIN
D		STORM DRAIN MANHOLE
CO		CLEANOUT
S		SEWER MANHOLE
CO		SEWER CLEANOUT
		POWER POLE
		POLE ANCHOR
T	T	TELEPHONE RISER
		SIGN

NEW PAVEMENT
RESURFACED PAVEMENT
GRASS
LANDSCAPE AREA
CONCRETE
GRAVEL



VICINITY MAP

N.T.S.



PROJECT INFORMATION

APPLICANT:	DOUG CAREY LEWIS COUNTY FACILITIES DEPARTMENT 351 NW NORTH STREET CHEHALIS, WA 98532 DOUG.CAREY@LEWISCOUNTYWA.GOV
TPN:	003744002000 003752000000
SITE ADDRESS:	351 NW NORTH ST CHEHALIS WA, 98532
ZONING:	EPF – INSTITUTION
SITE AREA:	1.15 ACRES (COMBINED PARCEL AREA)
SOILS:	118 – LACAMAS SILT LOAM, C/D 0–3% SLOPES

SHEET INDEX

CVR – CIVIL COVER & SITE LAYOUT
C0.1 – CONSTRUCTION PHASING PLAN
C0.2 – EXIST. SITE & DEMO PLAN (RAINIER BLOCK)
C0.3 – NOT USED
C0.4 – NOT USED
C1.1 – HORIZONTAL CONTROL PLAN
C1.2 – NOT USED
C1.3 – NOT USED
C1.4 – HORIZONTAL CONTROL DETAILS & NOTES
C2.1 – GRADING & DRAINAGE PLAN
C2.2 – NOT USED
C2.3 – NOT USED
C2.4 – GRADING & DRAINAGE PLAN
C2.5 – DRAINAGE DETAILS & NOTES
C2.6 – INTERSECTION DETAILS
C3.1 – FRONTAGE IMPROVEMENT PLAN & PROFILE
C3.2 – NOT USED
C3.3 – FRONTAGE IMPROVEMENT PLAN & PROFILE
C3.4 – FRONTAGE IMPROVEMENT PLAN & PROFILE
C3.5 – FRONTAGE IMPROVEMENT DETAILS & NOTES
C3.6 – NOT USED
C3.7 – WATER & SEWER SERVICE DETAILS & NOTES

SURVEY INFORMATION

BASIS OF BEARING

WASHINGTON STATE PLANE COORDINATE SYSTEM SOUTH ZONE 'GRID NORTH'

NAD 83/11 HORIZONTAL AND NAVD 88 VERTICALDATUMS FROM TIES TO WSDOT MON'S CHE–4, CHE–16. GP21005–71

APPROVED FOR CONSTRUCTION
BY: _____ DATE: 5/16/23
DIRECTOR OF PUBLIC WORKS
APPROVAL EXPIRES: 5/16/24 PW _____

KMB architects
906 Columbia Street SW, Suite 400
Olympia, Washington 98501
360.352.8883

KMB Project # J2037C
RBE Project # 20095

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Engineering
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360.740.8619

ROBERT W. BAYLEY II — EXPIRES 10/16/2023 — REGISTERED PROFESSIONAL ENGINEER

811 Know what's below. Call 811 before you dig.

LEWIS COUNTY SITE DEVELOPMENT
LEWIS COUNTY FACILITIES DEPARTMENT
351 NW NORTH STREET, CHEHALIS, WA 98532
Facilities Department

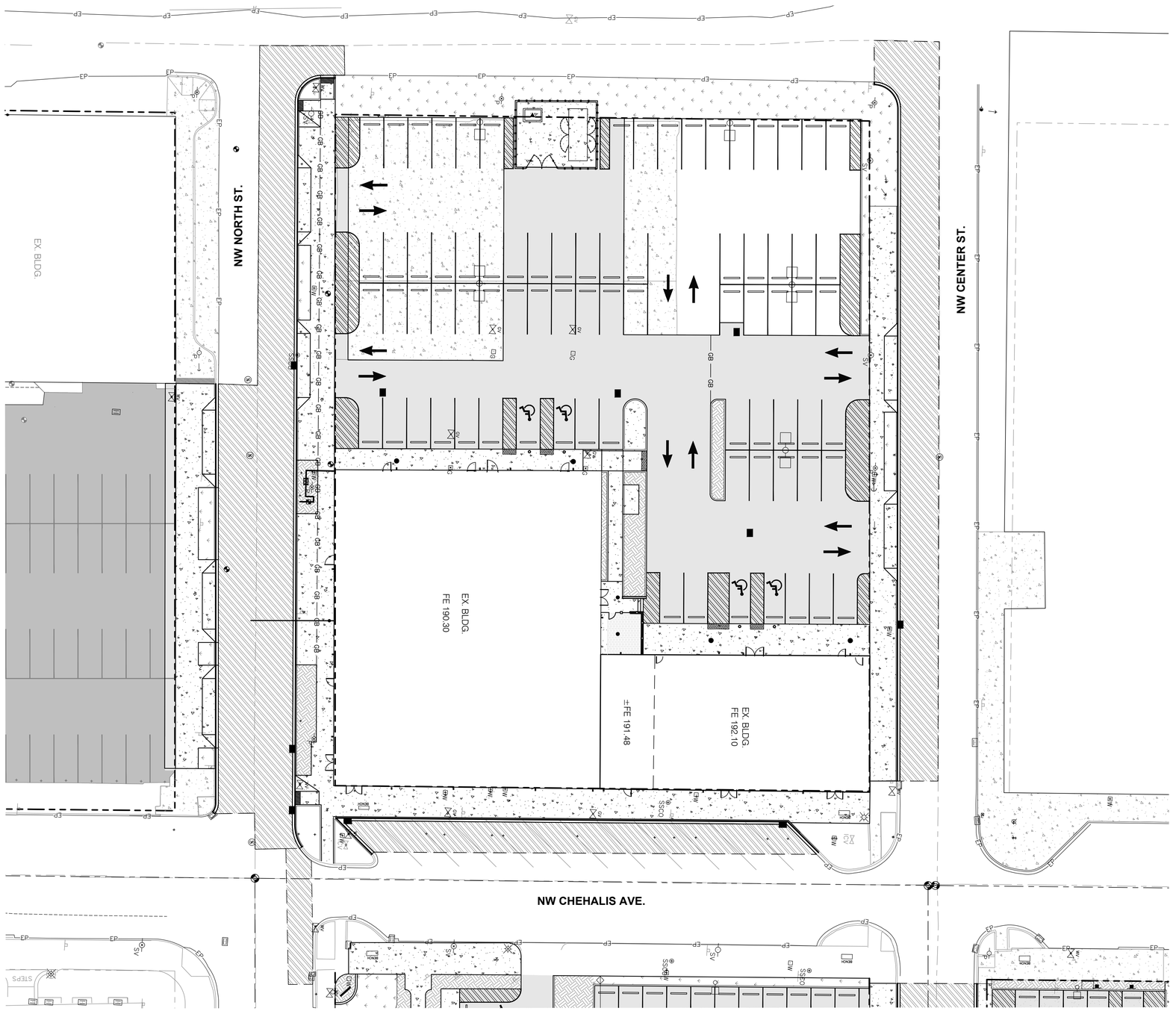
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HALF SIZE REDUCTIONS = 11 x 17

REVISIONS:
1 RAINIER PARKING 2-20-2023
2 RAINIER PATIO / PARKING 5-16-2023

DATE: 03-10-2023
RAINIER BLOCK BID SET

SHEET NO.
CVR
CIVIL COVER SHEET AND SITE LAYOUT

LAST SAVE: amandap, 20095_C0.1_COVR.dwg - May 16, 2023 (7:51 AM)
PLOT: _AutoCAD PDF (General Documentation).pc3, ARCH full bleed D (24.00 x 36.00 Inches), RBE Pub.ctb - May 16, 2023 (7:53 AM)



PHASE 1 CONSTRUCTION (RAINIER BLDG – BLOCK A)

CONSTRUCTION TO INCLUDE ALL FRONTAGE IMPROVEMENTS ALONG THE NORTH AND SOUTH SIDE OF NW NORTH STREET, THE SOUTH SIDE OF NW CENTER STREET, THE WEST SIDE OF NW CHEHALIS AVE, AND THE STORM CROSSING NW CHEHALIS AVE.

SCALE: 1"=20 FEET
0 10 20 40

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ROBERT W. BAKER — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

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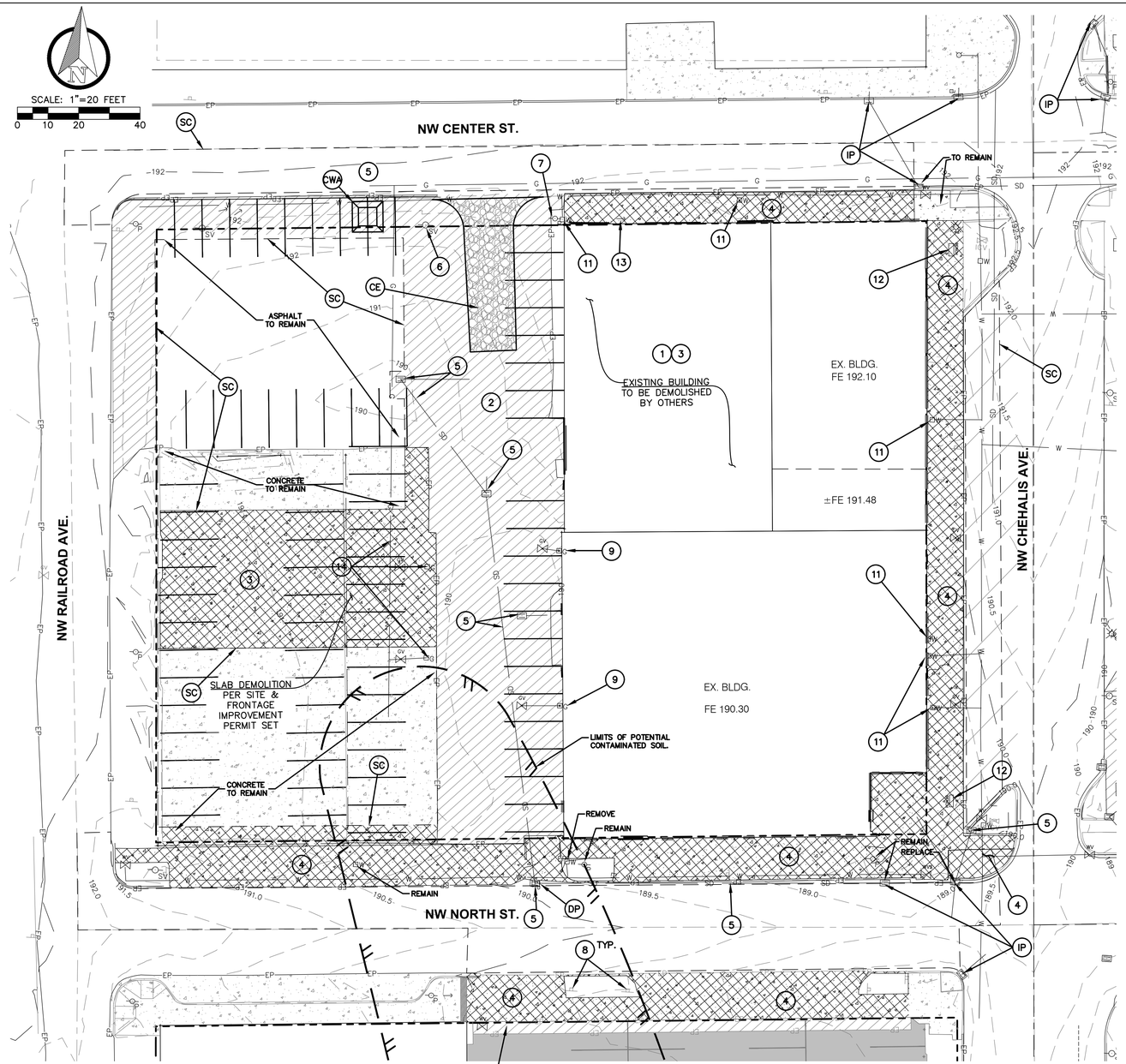
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2 RAINIER PATIO / PARKING 5-16-2023

DATE: 03-10-2023

RAINIER BLOCK BID SET

SHEET NO.
C-0.1
CONSTRUCTION PHASING PLAN

LAST SAVE: amanday, 20095_C0.1_COVR.dwg - May 16, 2023 (8:04 AM)
PLOT: _AutoCAD PDF (General Documentation) pc3, ARCH full bleed D (24.00 x 36.00 Inches), RBE Full.ctb - May 16, 2023 (9:51 AM)



ASPHALT PAVEMENT TO REMAIN

PAVEMENT TO BE REMOVED

CONCRETE SLAB AND SIDEWALK TO BE REMOVED

EXISTING BUILDING TO BE REMOVED BY OTHERS

CONCRETE TO REMAIN

SOIL MANAGEMENT WITHIN CONTAMINATED SOIL AREAS:

AREA SHOWN ON SITE MAY HAVE POSSIBLE BENZENE AND GAS–RANGE HYDROCARBON CONTAMINATED SOILS.
1. REMOVAL OF EXISTING CONCRETE SLAB SHALL NOT INCLUDE UNDERLYING SOILS. CONCRETE SHALL BE REMOVED FROM SITE TO APPROVED DISPOSAL AREA. MINIMIZE REMOVAL OF EXISTING ASPHALT IN PROPOSED TRENCH LOCATIONS.
2. WORK BELOW GRADE SHALL BE MINIMIZED. EXCAVATED MATERIAL SHALL NOT BE STOCKPILED OR STORED ON–SITE. PLACE EXCAVATED MATERIAL DIRECTLY INTO TRUCKS FOR REMOVAL FROM SITE. THIS MATERIAL SHALL BE HANDLED BY HAZARDOUS MATERIAL OR REMEDIATION COMPANY AND PLACED IN APPROVED LANDFILL.
3. INSTALL NEW DRAINS AND STRUCTURES IN A FASHION THAT MINIMIZES EXPOSURE OF OPEN TRENCHING. TRENCHES SHALLB E BACKFILLED WITH CLEAN APPROVED FILL AND COMPACTED. ANY RUNOFF FROM TRENCHES OR SUBGRADE COLLECTED ABOVE TEMPORARY PLUG SHALL BE REMOVED VIA A HAZARDOUS MATERIAL OR REMEDIATION COMPANY USING A VACTOR SYSTEM AND DISPOSED IN APPROVED LANDFILL.
4. PRPOSED SITE GRADING INVOLVES ADJUSTMENT OF EXISTING BASE MATERIAL OR ASPHALT SURFACING (GROUND–IN–PLACE). GRADING SHALL BE MINIMIZED. AFTER REMOVAL OR GRINDING, SITE GRADING AND REPAVING SHALL BE PERFORMED TO MINIMIZE EXPOSURE OF BASE COURSE MATERIALS. EXPOSED SUBGRADES SHALL BE TEMPORARILY DIIRECTED TO DRAINAGE STRUCTURE IN NW CENTER STREE ABOVE DRAIN PLUG. PERFORM GRADING ACTIVITIES IN THIS AREA DURING DRY WEATHER ONLY.
5. IF CONTAMINATED SOILS ARE FOUND DURING SITE WORK CONTACT EVAN WOOD AT WSDOE SWRO, 360.706.4599. STOP WORK IN THE AREA OF CONTAMINANTS UNTIL A REMOVAL PLAN IS APPROVED.

WSDOE BMP LIST:

CONTRACTOR SHALL HAVE A COPY OF THE PROJECT SWPPP ONSITE AT ALL TIMES DURING CONSTRUCTION. SEE SWPPP FOR LISTED BMPS.

(CE) CONSTRUCTION ENTRANCE – BMP C105

CONTRACTOR SHALL INSTALL 15 FT WIDE CONSTRUCTION ENTRANCE/EXIT USING 4 TO 8 INCH MINUS QUARRY ROCK 12 INCHES THICK PER WSDOE FIGURE II–4.2.12. CRUSHED CONCRETE WILL NOT BE ALLOWED. PLACE A WOVEN GEOTEXTILE WITH A GRAB TENSILE STRENGTH OF 200 PSI IF SOFT SOILS ARE ENCOUNTERED. PROVIDE LENGTH PER PLAN. CONTRACTOR SHALL REMOVE ALL SILT FENCING ONCE THE PROJECT IS COMPLETED OR DETERMINED TO BE STABILIZED BY THE PROJECT ENGINEER.

(SC) SAWCUTTING AND SURFACING POLLUTION PREVENTION – BMP C152

CONTRACTOR SHALL PROTECT ALL DRAINS FROM PROCESS WATER USED FOR SAWCUTTING ASPHALT AND CONCRETE PAVEMENTS. ALL PROCESS WATER SLURRY SHALL BE COLLECTED AND REMOVED FROM THE SITE AND DISPOSE PROCESS WATER IN A MANNER THAT DOES NOT VIOLATE GROUND OR SURFACE WATER QUALITY STANDARDS.

(CWA) CONCRETE WASHOUT AREA – BMP C154

CONTRACTOR SHALL PROVIDE THE CONCRETE WASHOUT AREA AT THE LOCATION SHOWN ON THE APPROVED TESC PLANS. CONTRACTOR SHALL USE ONE OF THE TWO OPTIONS SHOWN ON WSDOE FIGURE II–4.1.7A. WASHOUT AREA SHALL BE A MINIMUM 10–FOOT X 10–FOOT SQUARE. CONTRACTOR SHALL MAINTAIN THE BMP THROUGHOUT CONSTRUCTION AND REMOVE WASHOUT WATER AS NEEDED DURING THE WINTER MONTHS. CLEAN ALL CONCRETE TOOLS OVER THE WASHOUT AREA. NO WASHOUT AREA WATER MAY ENTER THE GROUND, SURFACE OR ONSITE STORMWATER SYSTEM.

(IP) STORM DRAIN INLET PROTECTION – BMP C220

CONTRACTOR TO PROVIDE INLET PROTECTION ON ALL NEW CATCH BASIN INLETS IMMEDIATELY AFTER INSTALLATION. ALL EXISTING CATCH BASINS WITHIN 500 FEET OF THE SITE CONSTRUCTION ENTRANCE SHALL ALSO RECEIVE INLET PROTECTION. SEE DETAIL ON APPROVED PLANS. REMOVE THE BMP'S ONCE THE SITE IS DETERMINED TO BE STABILIZED BY THE PROJECT ENGINEER. REFERENCE CITY OF CHEHALIS STANDARD DRAWING 3–5 FOR DETAILS.

(DP) TEMPORARY DRAIN PLUG – INSTALL AIR BLADDER PLUG IN OUTBOUND PIPE THIS STRUCTURE.

CONTRACTOR STANDARD NOTES:

ALL CONCRETE AND ASPHALT DEMO MATERIAL SHALL BE DISPOSED AT A LEWIS COUNTY APPROVED CONCRETE RECYCLING FACILITY SELECTED BY CONTRACTOR. CONTRACTOR TO PROVIDE RECYCLING SITE APPROVAL TO LEWIS COUNTY PRIOR TO CONSTRUCTION START.

ALL METAL AND PIPING REMOVED SHALL BE DISPOSED AT AN A LEWIS COUNTY APPROVED LAND FILL.

DEMO OF EXISTING ASPHALT AND CONCRETE THAT ABUTS EXISTING FINISHED CONCRETE AND ASPHALT SHALL BE REMOVED WITHOUT DAMAGE TO THE EXISTING CONCRETE OR ASPHALT. ANY DAMAGE DURING REMOVAL OF THE CONCRETE AND ASPHALT SHALL BE REPAIRED TO MATCH EXISTING PRE–CONSTRUCTION CONDITION AT THE CONTRACTORS EXPENSE.

EXISTING UTILITY VALVES TO BE PROTECTED DURING DEMOLITION UNLESS OTHERWISE SPECIFIED FOR REMOVAL.

PROTECT, RELOCATE OR SALVAGE ALL STREET SIGNS WITHIN THE CITY RIGHT–OF–WAY AND IDENTIFIED CONSTRUCTION AREA. COORDINATE ALL SIGNAGE WITH ARCHITECTURAL AND LANDSCAPE PLANS WHERE NOT IDENTIFIED.

ANY HISTORICAL HORSE–TIE RINGS FOUND ON SITE ARE TO BE REMOVED AND SALVAGED FOR USE BY OWNER. COORDINATE WITH ARCHITECT FOR DETAILS.

TESC BMP CONSTRUCTION SEQUENCE:

BEFORE ANY SITE GRADING ACTIVITIES BEGIN:

1. INSTALL PERIMETER SILT FENCES AND HIGH VISIBILE FENCING.
2. INSTALL STORM DRAINAGE INLET PROTECTION ON OFFSITE STREETS INCLUDING DOWNSTREAM DRAIN PLUG.
3. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AND EXITS.

AFTER ONSITE GRADING BEGINS:

4. COVER OR MULCH ONSITE TEMPORARY SOIL STOCKPILES (SEE SOIL MANAGEMENT WTIHIN CONTAMINATION AREAS).
5. PROVIDE TEMPRORARY AND PERMANENT SEEDING AS NEEDED.
6. INSTALL UNDERGROUND UTILITES.
7. INSTALL GRAVEL PAVEMENT AND INLET PROTECTION IN NEW CATCH BASINS.
8. FINAL GRADE AND PAVE ROAD AND PARKING AREAS.
9. PERFORM PERMANENT SEEDING AND LANDSCAPING TO STABILIZE THE SITE.
10. REMOVE ALL TEMPRORY CONTROL BMPS.
11. MONITOR STABILIZED AREAS UNTIL FINAL STABILIZATION.

DEMOLITION CONSTRUCTION NOTES:

1. EXISTING BUILDING TO BE DEMOLISHED BY OTHERS. DEMO BUILDING CONCRETE FOUNDATION.
2. DEMO EXISTING ASPHALT PAVEMENT.
3. DEMO EXISTING CONCRETE FOUNDATION SLAB AND FOUNDATIONS. ASSUME SLABS ARE 10 INCHES THICK.
4. DEMO EXISTING CONCRETE SIDEWALK AND CURB AND GUTTER PER LIMITS SHOWN.
5. EXISTING STORM DRAIN PIPE AND STRUCTURES TO BE REMOVED AS PART OF DRAINAGE IMPROVEMENTS.
6. REMOVE EXISTING POWER POLE.
7. POWER POLES TO REMAIN.
8. COORDINATE WITH CITY FOR EXISTING STREET SIGN REMOVAL AND RE–INSTALLATION. SEE CITY STANDARD SIGN INSTALL DETAIL ON SHEET C3.5.
9. GAS METER TO BE RELOCATED. SEE MECHANICAL PLANS FOR NEW LOCATION. EXTRA METER TO BE REMOVED.
10. GUARD RAIL TO REMOVED.
11. COORDINATE WITH CITY OF CHEHALIS TO REMOVE EXISTING WATER METER AND SERVICE LINE TO WATER MAIN. PLUG SERVICE AT MAIN WITH THREADED BRASS PLUG AT SADDLE.
12. CONTRACTOR TO REMOVE EXISTING BENCHES AND ±3 HISTORIC HORSE TIE–DOWN RINGS AND COORDINATE WITH PROJECT ARCHITECT FOR RE–INSTALLATION.
13. POWER POLE GUY WIRE TO BE MOVED WEST 14 FT. COORDINATE WITH LEWIS COUNTY P.U.D
14. POSSIBLE LOCATION OF EXISTING AND/OR ABANDONED GAS SERVICE AND METERS FOR PREVIOUSLY DEMOLISHED BUILDING. CONTRACTOR TO REMOVE IF SERVICES EXIST.

LEGEND

EXISTING	PROPOSED	
W	W	WATER MAIN
SS	SS	SANITARY SEWER MAIN
FM	FM	FORCE MAIN
SD	SD	STORM MAIN
RD	RD	ROOF DRAIN
		FOOTING DRAIN
G	G	GAS LINE
UGP	UGP	POWER LINE
T	T	TELEPHONE LINE
TV	CATV	CABLE TV LINE
		ROADWAY CENTERLINE
		RIGHT–OF–WAY LINE
		EASEMENT LINE
		FRONT/BACK OF CURB
		EDGE OF GRAVEL SHOULDER
EP		EDGE OF PAVEMENT
BO		BLOWOFF ASSEMBLY
		FIRE HYDRANT
W		GATE VALVE
		THRUST BLOCKING
W		WATER METER BOX
		CAP/PLUG
		STORM DRAIN CATCH BASIN
D		STORM DRAIN MANHOLE
CO		CLEANOUT
S		SEWER MANHOLE
CO		SEWER CLEANOUT
		POWER POLE
		POLE ANCHOR
T	T	TELEPHONE RISER
		SIGN

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Facilities Department

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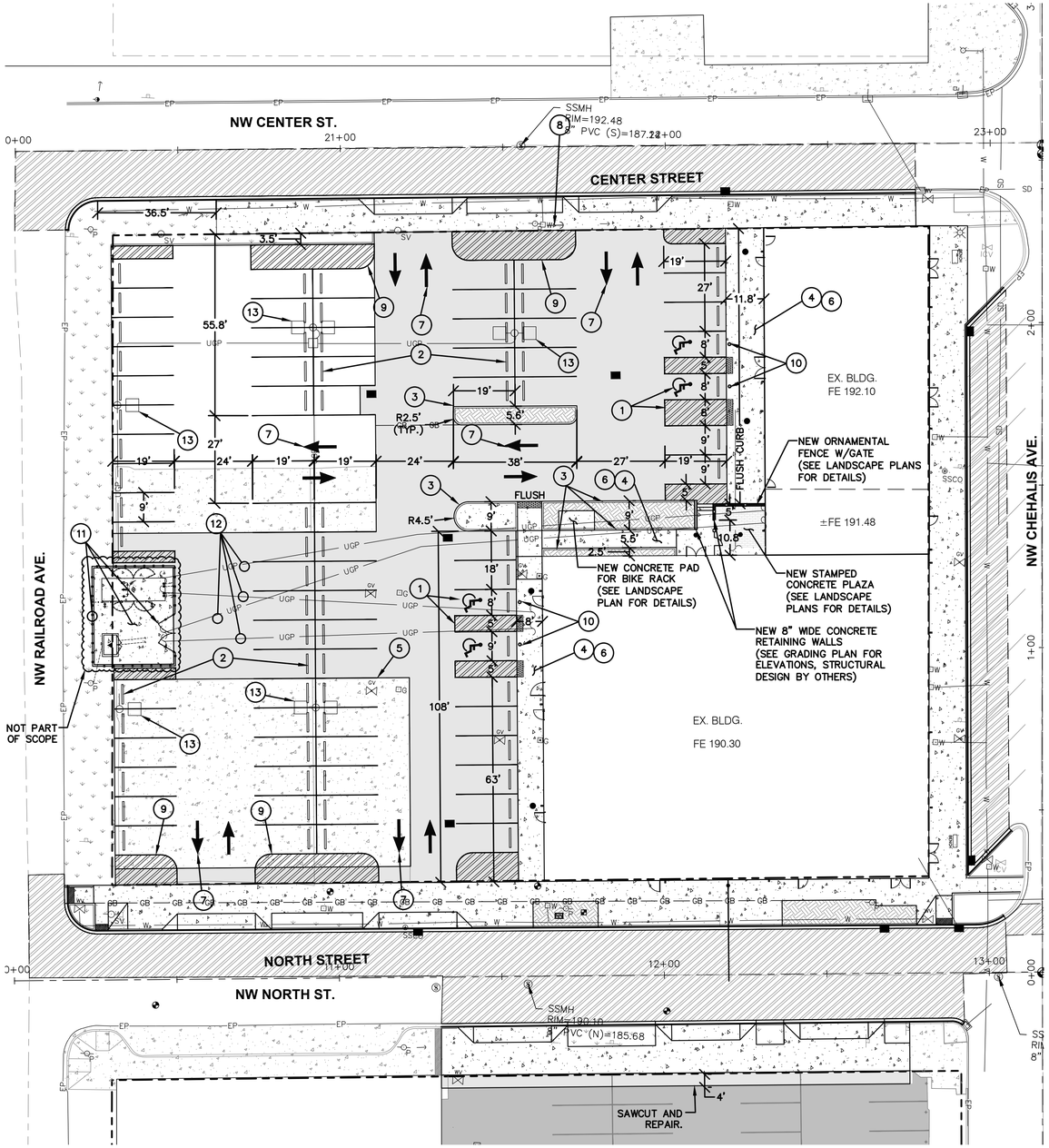
RAINIER BLOCK BID SET

SHEET NO.
C-0.2
EXISTING SITE TOPO, UTILITIES AND DEMOLITION PLAN (RAINIER)

LAST SAVE: amandap, 20095_C0.2-C0.4_ESDP.dwg - May 8, 2023 (1:06 PM)
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LEGEND

EXISTING	PROPOSED	
W	W	WATER MAIN
SS	SS	SANITARY SEWER MAIN
FM	FM	FORCE MAIN
SD	SD	STORM MAIN
RD	RD	ROOF DRAIN
FW	FW	FOOTING DRAIN
G	G	GAS LINE
UGP	UGP	POWER LINE
T	T	TELEPHONE LINE
TV	CATV	CABLE TV LINE
		ROADWAY CENTERLINE
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		EASEMENT LINE
		FRONT/BACK OF CURB
		EDGE OF GRAVEL SHOULDER
EP		EDGE OF PAVEMENT
BO		BLOWOFF ASSEMBLY
		FIRE HYDRANT
W		GATE VALVE
		THRUST BLOCKING
W		WATER METER BOX
		CAP/PLUG
		STORM DRAIN CATCH BASIN
D		STORM DRAIN MANHOLE
CO		CLEANOUT
S		SEWER MANHOLE
CO		SEWER CLEANOUT
		POWER POLE
		POLE ANCHOR
T	T	TELEPHONE RISER
		SIGN



SCALE: 1"=20 FEET
0 10 20 40

ADA NOTE:

ALL NEW SIDEWALKS SHALL NOT EXCEED 2% SIDE SLOPE AND ADA PARKING STALLS AND RAMP LANDINGS SHALL NOT EXCEED 2 PERCENT SLOPE IN ALL DIRECTIONS. ALL ADA ACCESSIBLE ROUTES IDENTIFIED ON THE PLANS SHALL NOT EXCEED 5% LONGITUDINAL GRADE. ALL ADA RAMPS SHALL NOT EXCEED 8% GRADE AND 2% CROSS SLOPE. CONTRACTOR IS RESPONSIBLE TO CHECK GRADES PRIOR TO CONCRETE AND PAVING WORK. ANY GRADES EXCEEDING THE ABOVE LIMITS WILL BE REQUIRED TO BE CORRECTED AT THE SOLE EXPENSE OF THE CONTRACTOR.

STAKING NOTE:

CONTRACTOR SHALL CALL RB ENGINEERING 48 HOUR PRIOR TO POURING CONCRETE CURB FOR INSPECTION.

HORIZONTAL CONTROL NOTES:

1. CONSTRUCT NEW ADA PARKING STALLS AND STRIPING PER PLAN AND DETAILS ON SHEET C1.4.
2. INSTALL CONCRETE WHEEL STOPS AT ALL PARKING STALLS PER PLAN. SEE DETAIL ON SHEET C1.4. (79 TOTAL).
3. CONSTRUCT NEW EXTRUDED CURB PER DETAILS ON SHEET C1.4.
4. CONSTRUCT NEW CONCRETE SIDEWALK PER DETAILS ON SHEET C.1.4.
5. STRIPE NEW PARKING LOT STALLS PER DETAIL ON SHEET C1.4.
6. CONSTRUCT NEW BUILDING PERIMETER CONCRETE SIDEWALKS, PROVIDE CRACK CONTROL AND EXPANSION MATERIALS AT ALL BUILDING/CONCRETE CONNECTIONS.
7. PAINT WHITE PAVEMENT MARKING ARROWS PER PLAN AND MUTCD STANDARDS.
8. NEW GUY WIRE ANCHOR LOCATION.
9. HATCH NO PARKING AREAS WITH WHITE CROSS-HATCH PER MUTCD STANDARDS.
10. INSTALL ADA SIGN POST SYSTEM BY SETON FLEXBOLLARD. ADA PARKING SIGN MODEL L3146-COM. (4 TOTAL)
11. ~~GENERATOR & TRANSFORMER PAD. SEE ELECTRICAL PLANS FOR DETAILS. INSTALL 6' 9 GAUGE CHAINLINK FENCING W/SLATS. PROVIDE 12' WIDE DOUBLE SWING CHAINLINK GATE W/CENTER PIN AND LOCKING HARDWARE.SEE DETAIL THIS SHEET.~~ NOT PART OF SCOPE
12. ~~UNDERGROUND POWER & ELECTRICAL CONDUIT. SEE ELECTRICAL PLANS FOR SIZE, QUANTITY, AND CONNECTION DETAILS.~~ NOT PART OF SCOPE
13. PROPOSED SITE LIGHTING. SEE ELECTRICAL PLANS FOR DETAILS.

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ROBERT W. BAKER — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

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KMB Project # J2037C
RBE Project # 20095

LEWIS COUNTY SITE DEVELOPMENT
LEWIS COUNTY FACILITIES DEPARTMENT
351 NW NORTH STREET, CHEHALIS, WA 98532
Facilities Department

ORIGINAL SHEET SIZE = 24 x 36
HALF SIZE REDUCTIONS = 11 x 17

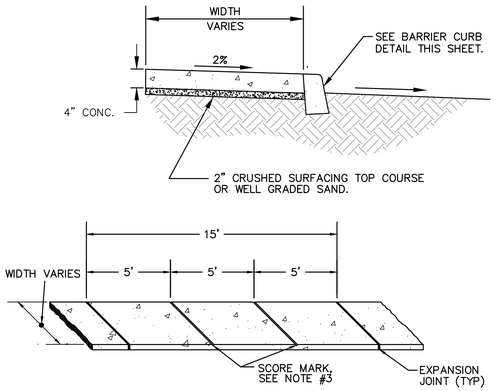
REVISIONS:
1 RAINIER PARKING 2-20-2023
2 RAINIER PATIO / PARKING 5-16-2023

DATE: 03-10-2023

RAINIER BLOCK BID SET

SHEET NO.
C-1.1
HORIZONTAL CONTROL PLAN
RAINIER BUILDING PARKING

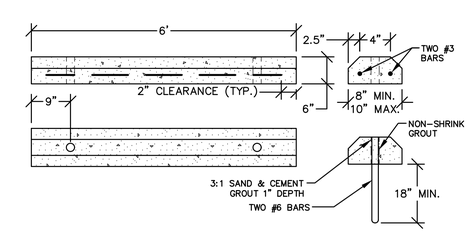
LAST SAVE: amandap, 20095_C1.1-C1.4_HCP-LDT.dwg - May 15, 2023 (1:17 PM)
PLOT: _AutoCAD PDF (General Documentation).pc3, ARCH full bleed D (24.00 x 36.00 inches), RBE Full.ctb - May 16, 2023 (9:52 AM)



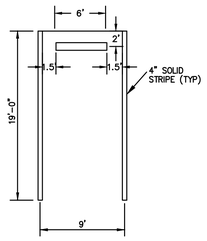
GENERAL NOTES:

1. EXPANSION JOINT MATERIAL TO BE 3/8" THICK PREMOLDED JOINT FILLER FULL THICKNESS OF CONCRETE.
2. FORM AND SUBGRADE INSPECTION REQUIRED BEFORE POURING CONCRETE.
3. SCORE MARKS SHALL BE ±1/8" WIDE BY ±1/4" DEEP. FOR SIDEWALKS OVER 8' IN WIDTH, A LONGITUDINAL SCORE MARK SHALL BE MADE ALONG CENTER OF WALK.
4. EXPANSION JOINTS SHALL BE INSTALLED IN CURB AND GUTTER AND IN SIDEWALK AT PC AND PT AT ALL CURB RETURNS. EXPANSION JOINTS SHALL BE PLACED IN SIDEWALK AT SAME LOCATIONS AS THOSE IN CURB AND GUTTER WHEN SIDEWALK IS ADJACENT TO CURB AND GUTTER, UNLESS OTHERWISE DIRECTED BY ENGINEER.

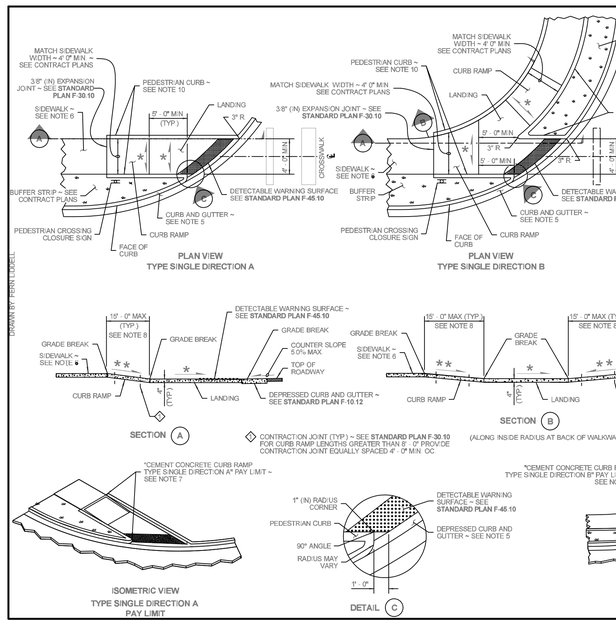
ONSITE SIDEWALK DETAIL — N.T.S. | RB ENGINEERING | ONSITE SIDEWALK.dwg



PRECAST CEMENT CONCRETE WHEELSTOP — N.T.S. | RB ENGINEERING | WHEELSTOP.dwg



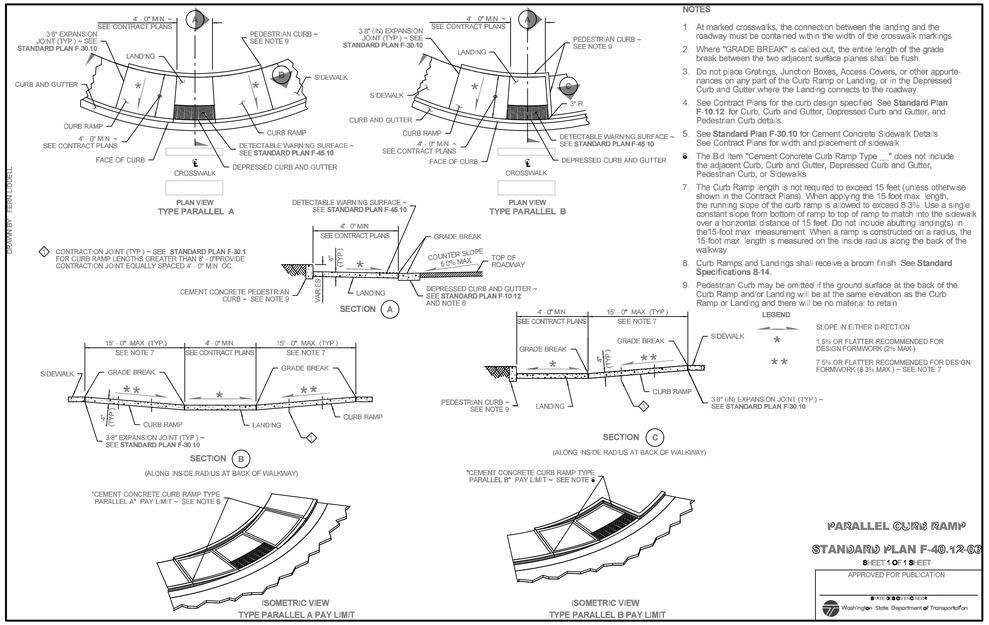
WHEEL STOP/PARKING STALL INSTALLATION DETAIL — N.T.S. | RB ENGINEERING | PARKING STALL W-WHEEL STOP.dwg



NOTES

1. This plan is to be used where pedestrian crossing in one direction is not permitted.
2. At marked crosswalks, the connection between the Landing and the roadway must be contained within the width of the crosswalk markings.
3. Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
4. Do not place Gratings, Junction Boxes, Access Covers, or other appurtenances on any part of the Curb Ramp or Landing or in the Depressed Curb and Gutter where the Landing connects to the roadway.
5. See Contract Plans for the curb design specified. See **Standard Plan F-10.12** for Curb, Curb and Gutter, Depressed Curb, Gutter and Pedestrian Curb details.
6. See **Standard Plan F-30.10** for Cement Concrete Sidewalk Details. See Contract Plans for width and placement of sidewalk.
7. The Bid Item "Cement Concrete Curb Ramp Type ___" does not include the adjacent Curb, Curb and Gutter, Depressed Curb and Gutter, Pedestrian Curb, or Sidewalks.
8. The Curb Ramp length is not required to exceed 15 feet (unless shown otherwise in the Contract Plans). When applying the 15-foot max. length (measured from back of sidewalk) the running slope of the curb ramp is allowed to exceed 8.3%. Use a single constant slope from bottom of ramp to top of ramp to match into the sidewalk over a horizontal distance of 15 feet.
9. Curb Ramps and Landings shall receive a broom finish. See **Standard Specifications 8-14.**
10. Pedestrian Curb may be omitted if the ground surface at the back of the Curb Ramp and/or Landing will be at the same elevation as the Curb Ramp or Landing and there will not be material to retain.

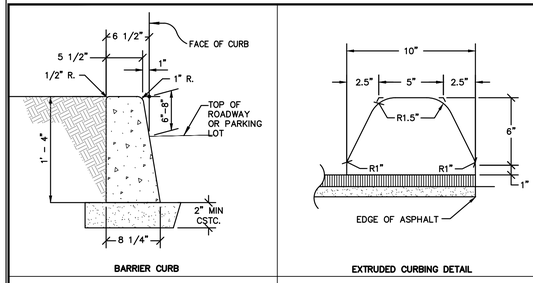
SINGLE DIRECTION CURB RAMP
STANDARD PLAN F-40.16-03
8 SHEET 1 OF 1 8 SHEET
APPROVED FOR PUBLICATION
DATE REVISIONS
Washington State Department of Transportation



NOTES

1. At marked crosswalks, the connection between the landing and the roadway must be contained within the width of the crosswalk markings.
2. Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
3. Do not place Gratings, Junction Boxes, Access Covers, or other appurtenances on any part of the Curb Ramp or Landing, or in the Depressed Curb and Gutter where the Landing connects to the roadway.
4. See Contract Plans for the curb design specified. See **Standard Plan F-10.12** for Curb, Curb and Gutter, Depressed Curb and Gutter, and Pedestrian Curb details.
5. See **Standard Plan F-30.10** for Cement Concrete Sidewalk Details. See Contract Plans for width and placement of sidewalk.
6. The Bid Item "Cement Concrete Curb Ramp Type ___" does not include the adjacent Curb, Curb and Gutter, Depressed Curb and Gutter, Pedestrian Curb, or Sidewalks.
7. The Curb Ramp length is not required to exceed 15 feet (unless otherwise shown in the Contract Plans). When applying the 15-foot max. length, the running slope of the curb ramp is allowed to exceed 8.3%. Use a single constant slope from bottom of ramp to top of ramp to match into the sidewalk over a horizontal distance of 15 feet. Do not include abutting landing(s) in the15-foot max. measurement. When a ramp is constructed on a radius, the 15-foot max. length is measured on the inside radius along the back of the walkway.
8. Curb Ramps and Landings shall receive a broom finish. See **Standard Specifications 8-14.**
9. Pedestrian Curb may be omitted if the ground surface at the back of the Curb Ramp and/or Landing will be at the same elevation as the Curb Ramp or Landing and there will be no material to retain.

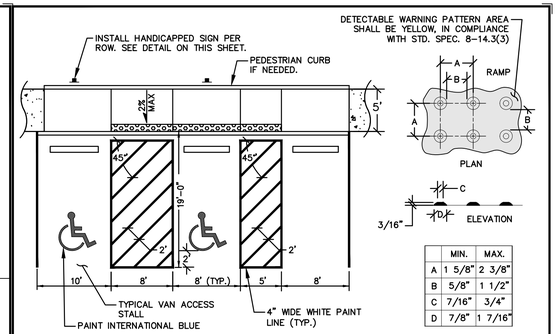
PARALLEL CURB RAMP
STANDARD PLAN F-40.12-03
8 SHEET 1 OF 1 8 SHEET
APPROVED FOR PUBLICATION
DATE REVISIONS
Washington State Department of Transportation



NOTES:

1. EXPANSION JOINT MATERIAL TO BE 3/8" THICK PREMOLDED JOINT FILLER FULL THICKNESS OF CONCRETE SPACING.
2. FORM AND SUBGRADE INSPECTION REQUIRED BEFORE POURING CONCRETE.
3. WHEN CHECKED WITH A 10 FOOT STRAIGHTEDGE, GRADE SHALL NOT DEVIATE MORE THAN 1/8 INCH, AND ALIGNMENT SHALL NOT VARY MORE THAN 1/4 INCH.

CONCRETE CURB DETAILS — N.T.S. | RB ENGINEERING | CONC_CURB_DT.dwg



	MIN.	MAX.
A	1 5/8"	2 3/8"
B	5/8"	1 1/2"
C	7/16"	3/4"
D	7/8"	1 7/16"

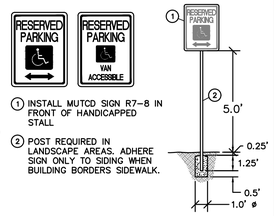
NOTES:

DETECTABLE WARNING SURFACE

1. THE DETECTABLE WARNING SURFACE (DWS) SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP (EXCLUSIVE OF FLARES) OR THE LANDING.
2. THE DETECTABLE WARNING SURFACE SHALL BE PLACED AT THE BACK OF CURB, AND NEED NOT FOLLOW THE RADIUS.
3. THE ROWS OF TRUNCATED DOMES SHALL BE ALIGNED TO BE PERPENDICULAR TO GRADE BREAK AT THE BACK OF CURB.
4. THE ROWS OF TRUNCATED DOMES SHALL BE ALIGNED TO BE PARALLEL TO THE DIRECTION OF TRAVEL.
5. IF CURB AND GUTTER ARE NOT PRESENT, SUCH AS A SHARED-USE PATH CONNECTION, THE DETECTABLE WARNING SURFACE SHALL BE PLACED AT THE PAVEMENT EDGE.

SIDEWALK AND CURB RAMP

6. SEE STANDARD PLANS FOR SIDEWALK AND CURB RAMP DETAILS.
7. IF A CURB RAMP IS REQUIRED, THE LOCATION OF THE DETECTABLE WARNING SURFACE MUST BE AT THE BOTTOM OF THE RAMP AND WITHIN THE REQUIRED DISTANCE FORM THE RAIL.
8. WHEN THE GRADE BREAK BETWEEN THE CURB RAMP AND THE LANDING IS LESS THAN OR EQUAL TO 5 FT. FROM THE BACK OF CURB AT ALL POINTS, PLACE THE DETECTABLE WARNING SURFACE ON THE BOTTOM OF THE CURB RAMP.



ADA STALL AND ACCESSIBILITY SIGN DETAIL — N.T.S. | RB ENGINEERING | ADD_SIGN&STALL.dwg

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RBE Project # 20095

LEWIS COUNTY SITE DEVELOPMENT
LEWIS COUNTY FACILITIES DEPARTMENT
351 NW NORTH STREET, CHEHALIS, WA 98532
Facilities Department

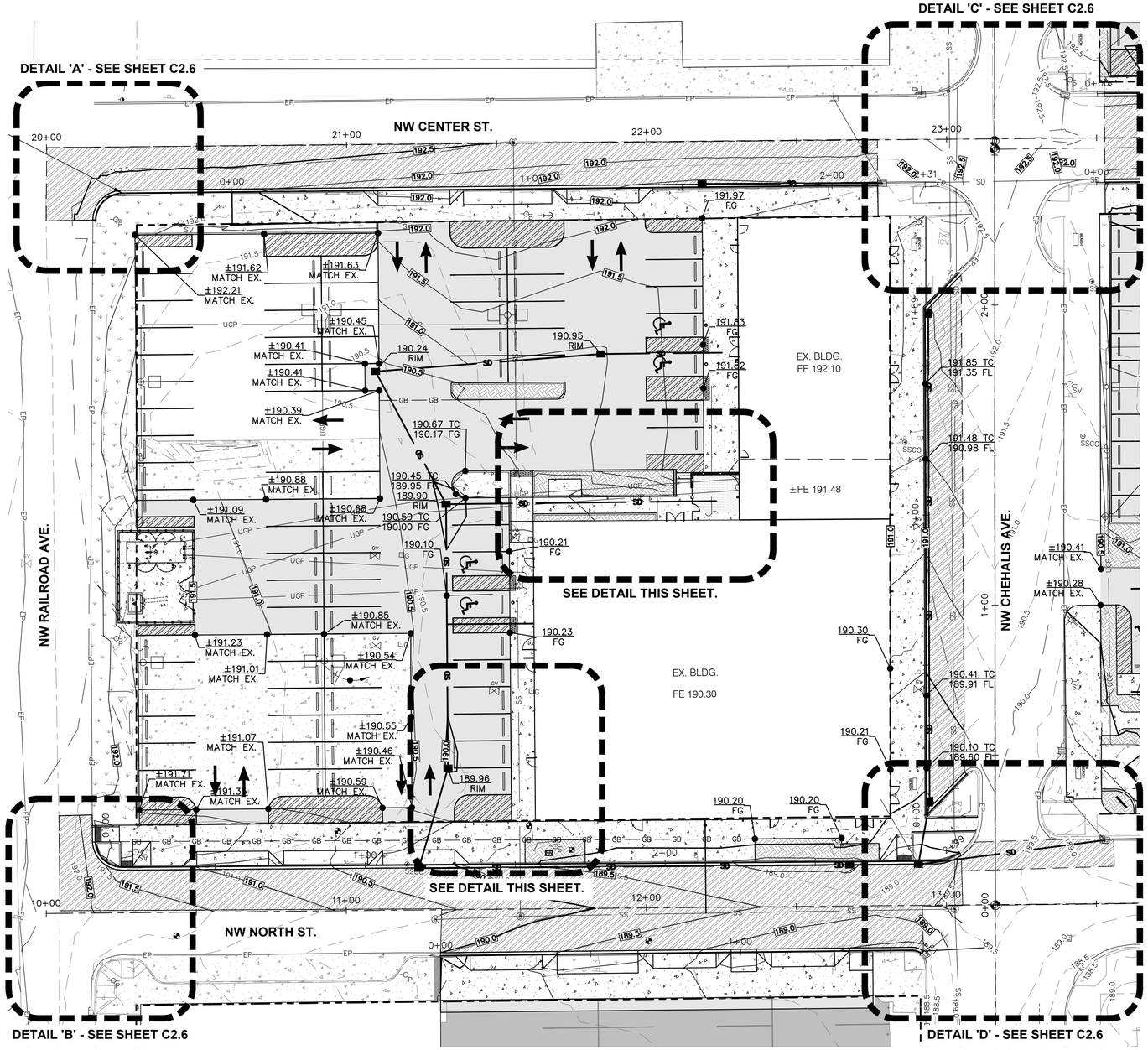
ORIGINAL SHEET SIZE = 24 x 36
HALF SIZE REDUCTIONS = 11 x 17

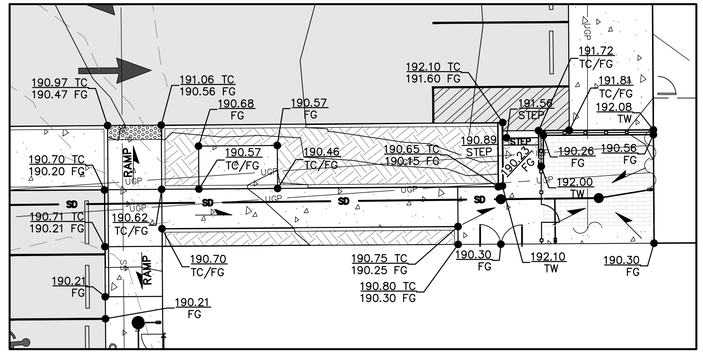
REVISIONS:
1 RAINIER PARKING 2-20-2023
2 RAINIER PATIO / PARKING 5-16-2023

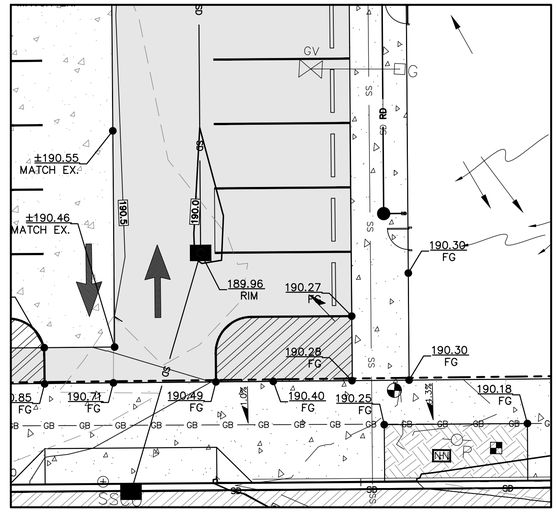
DATE: 03-10-2023
RAINIER BLOCK BID SET

SHEET NO.
C-1.4
HORIZONTAL CONTROL DETAILS & NOTES

LAST SAVE: amandap, 20095_C1-1-C1-4_HCPLDT.dwg - May 15, 2023 (1:17 PM)
PLOT: - AutoCAD PDF (General Documentation).pc3, ARCH full bleed D (24.00 x 36.00 Inches), RBE Full.ctb - May 16, 2023 (9:52 AM)







LEGEND

EXISTING	PROPOSED		EXISTING	PROPOSED	
W	W	WATER MAIN	BO		BLOWOFF ASSEMBLY
SS	SS	SANITARY SEWER MAIN			FIRE HYDRANT
FM	FM	FORCE MAIN	W		GATE VALVE
SD	SD	STORM MAIN			THRUST BLOCKING
RD	RD	ROOF DRAIN	W		WATER METER BOX
		FOOTING DRAIN			CAP/PLUG
G	G	GAS LINE			STORM DRAIN CATCH BASIN
UGP	UGP	POWER LINE	D		STORM DRAIN MANHOLE
T	T	TELEPHONE LINE	CO		CLEANOUT
TV	CATV	CABLE TV LINE	S		SEWER MANHOLE
		ROADWAY CENTERLINE	CO		SEWER CLEANOUT
		RIGHT-OF-WAY LINE			POWER POLE
		EASEMENT LINE			POLE ANCHOR
		FRONT/BACK OF CURB	T		TELEPHONE RISER
		EDGE OF GRAVEL SHOULDER			SIGN
EP		EDGE OF PAVEMENT			

LEGEND

EXISTING	PROPOSED	
		NEW PAVEMENT
		RESURFACED PAVEMENT
		GRASS
		LANDSCAPE AREA
		CONCRETE
		GRAVEL

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ROBERT W. BAKER — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER

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KMB Project # J2037C
RBE Project # 20095

LEWIS COUNTY SITE DEVELOPMENT
LEWIS COUNTY FACILITIES DEPARTMENT
351 NW NORTH STREET, CHEHALIS, WA 98532
Facilities Department

ORIGINAL SHEET SIZE = 24 x 36
HALF SIZE REDUCTIONS = 11 x 17

REVISIONS:
1. RAINIER PARKING 2-20-2023
2. RAINIER PATIO / PARKING 5-16-2023

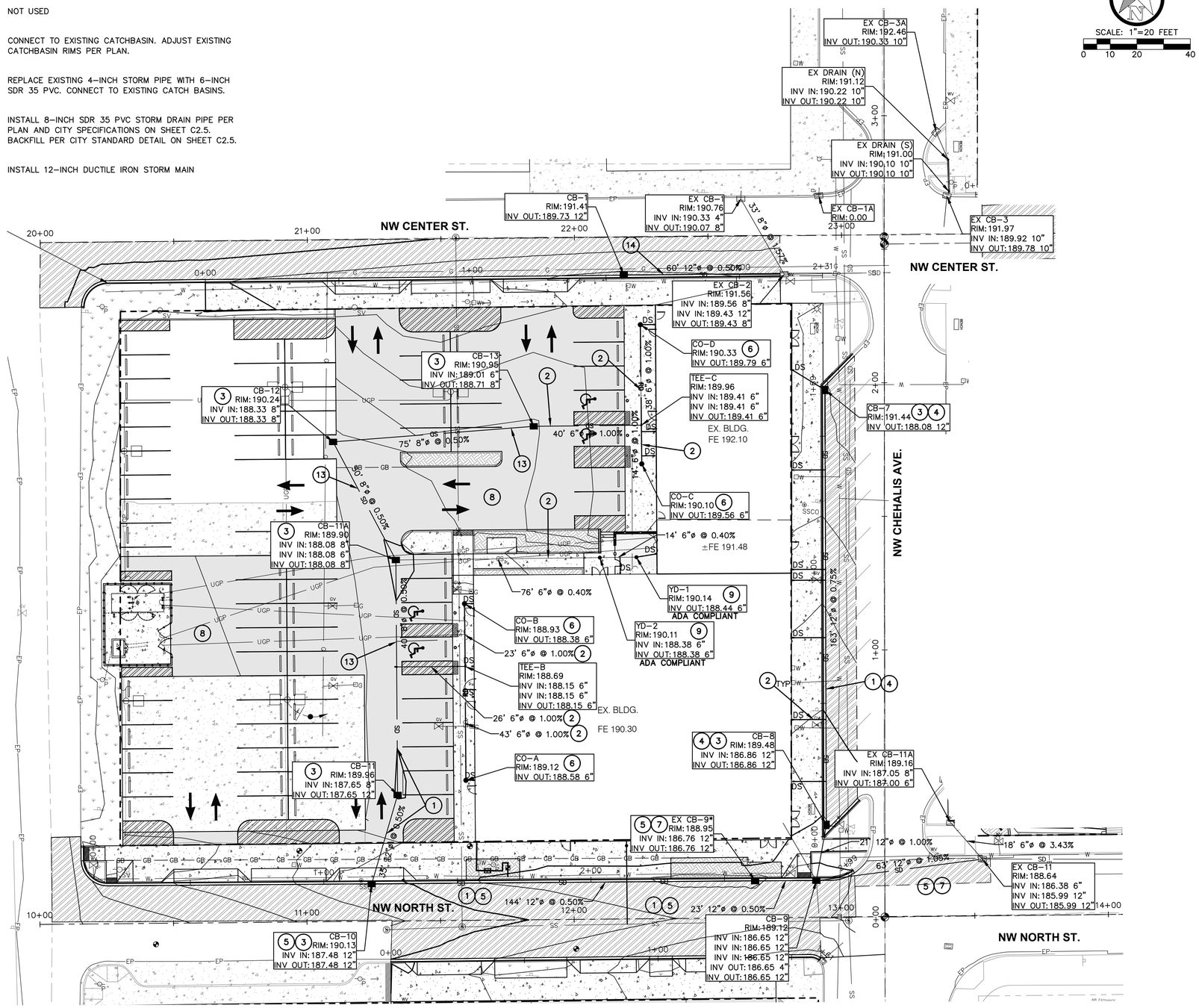
DATE: 03-10-2023
RAINIER BLOCK BID SET

SHEET NO.
C-2.1
GRADING PLAN
RAINIER BUILDING PARKING LOT

LAST SAVE: amandap 20095_C2.1-C2.5_GDPLDT (Aug - May 16, 2023 (9:50 AM)
PLOT: _AutoCAD PDF (General Documentation).pc3_ARCH full bleed D (24.00 x 36.00 Inches)_RBE Full.ctb - May 16, 2023 (8:53 AM)

GRADING AND DRAINAGE CONSTRUCTION NOTES:

1. INSTALL 12–INCH STORM DRAIN PIPE PER PLAN AND CITY SPECIFICATIONS ON SHEET C2.5. BACKFILL PER CITY STANDARD DETAIL ON SHEET C2.5.
2. INSTALL 6–INCH SDR 35 PVC STORM ROOF DRAIN PIPE PER PLAN. BACKFILL PER CITY STANDARD DETAIL ON SHEET C2.5.
3. INSTALL TYPE 1 CATCHBASINS PER PLAN AND DETAIL ON SHEET C2.5. PROVIDE HERRINGBONE RING AND COVER.
4. SEE SHEET C3.4 FOR STORM LINE PROFILE AND GRADES.
5. SEE SHEET C3.3 FOR STORM LINE PROFILE AND GRADES.
6. INSTALL ROOF DRAIN CLEANOUTS, TYPICAL OF 6, PER PLAN AND DETAIL ON SHEET C2.5. CLEANOUT RIM SHALL BE FLUSH WITH FINAL GRADE.
7. ADJUST EXISTING CATCHBASIN RIMS PER PLAN. SEE SHEET C3.3 FOR FINAL GRADES AND INVERTS.
8. CONSTRUCT NEW ASPHALT PARKING LOT PER STRUCTURAL PAVEMENT SECTION ON SHEET C2.5.
9. INSTALL NYLOPLAST AREA DRAIN BASIN AND ADA COMPLIANT INLET GRATE. PROVIDE 1 6" RISER.
10. NOT USED
11. CONNECT TO EXISTING CATCHBASIN. ADJUST EXISTING CATCHBASIN RIMS PER PLAN.
12. REPLACE EXISTING 4–INCH STORM PIPE WITH 6–INCH SDR 35 PVC. CONNECT TO EXISTING CATCH BASINS.
13. INSTALL 8–INCH SDR 35 PVC STORM DRAIN PIPE PER PLAN AND CITY SPECIFICATIONS ON SHEET C2.5. BACKFILL PER CITY STANDARD DETAIL ON SHEET C2.5.
14. INSTALL 12–INCH DUCTILE IRON STORM MAIN



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KMB Project # J2037C
RBE Project # 20095

LEWIS COUNTY SITE DEVELOPMENT
LEWIS COUNTY FACILITIES DEPARTMENT

351 NW NORTH STREET, CHEHALIS, WA 98532
Facilities Department

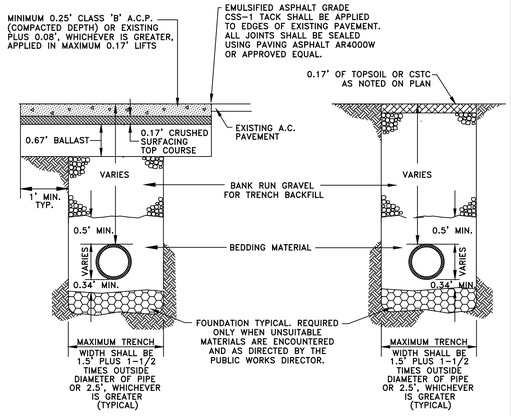
ORIGINAL SHEET SIZE = 24 x 36
HALF SIZE REDUCTIONS = 11 x 17

REVISIONS:
1. RAINIER PARKING 2-20-2023
2. RAINIER PATIO / PARKING 5-16-2023

DATE: 03-10-2023
RAINIER BLOCK BID SET

SHEET NO.
C-2.4
DRAINAGE PLAN
RAINIER BUILDING PARKING LOT

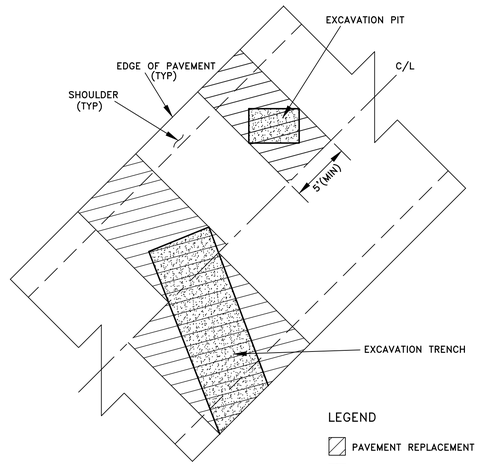
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PLOT: _AutoCAD PDF (General Documentation).pc3, ARCH full bleed D (24.00 x 36.00 Inches), RBE Full.ctb - May 16, 2023 (9:53 AM)



NOTES:
1. ALL MATERIALS EXCEPT A.C.P. AND BEDDING MATERIAL SHALL BE COMPACTED IN 6-INCH MAXIMUM LIFTS TO 95% DENSITY.
2. BEDDING SHALL CONFORM TO SECTION 9-03.16 OF STANDARD SPECIFICATIONS AS AMENDED BY CITY OF CHEHALIS STANDARDS.
3. COMPACTION: BEDDING SHALL BE COMPACTED TO 95% MAX. AS DETERMINED BY ASTM D1557. BACKFILL SHALL BE COMPACTED TO 85% IN UNPAVED AREA, AND 95% IN PAVED OR SHOULDER AREAS AS DETERMINED BY ASTM D1557.
4. ALL MATERIALS, WORKMANSHIP, AND INSTALLATION SHALL BE IN CONFORMANCE WITH THE MOST RECENT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AS AMENDED BY CITY OF CHEHALIS PUBLIC WORKS STANDARDS.
5. KEEP TRENCH BOTTOM COMPACTED WITH UNIFORM GRADE. A BELL JOINT SHALL BE REQUIRED AT EACH JOINT FOR PROPER SUPPORT. NO TEMPORARY SUPPORTS, I.E. BLOCKS, WILL BE ALLOWED TO SUPPORT PIPE. TRENCH BOTTOM SHALL BE TO GRADE PRIOR TO PIPE INSTALLATION.

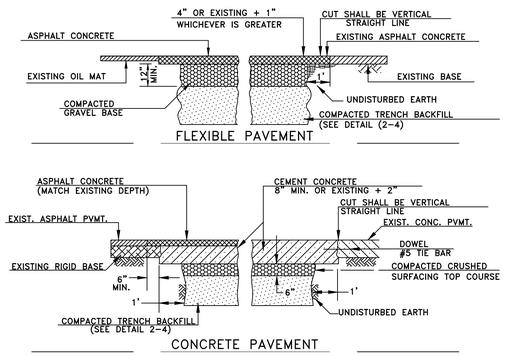
Drawing Not to Scale

City of Chehalis	
TRENCH PAVEMENT RESTORATION DETAIL	
APPROVED BY	DWG. NO. 2-4
	REVISED DATE
CITY ENGINEER	1/02/2003



NOTE:
1. MINIMUM RESTORATION WIDTH = 5 FEET

City of Chehalis	
PAVEMENT RESTORATION	
APPROVED BY	DWG. NO. 2-5
	REVISED DATE
CITY ENGINEER	1/02/2003



CEMENT CONCRETE REPLACEMENT WIDTH	DOWEL BAR LENGTH	SPACING
LESS THAN 4'	16"	18" O.C.
4' – 6'	24"	18" O.C.
GREATER THAN 6'	30"	18" O.C.

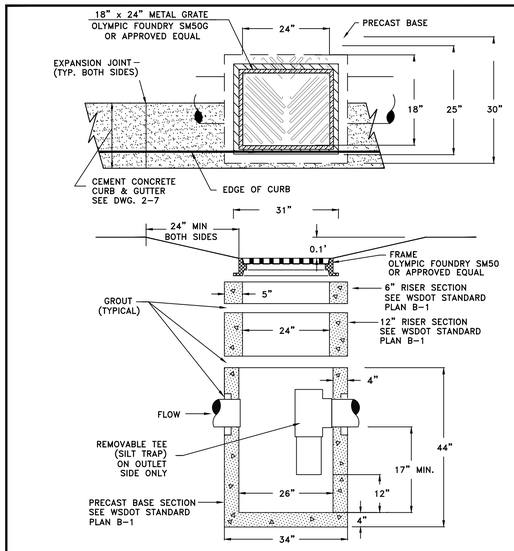
NOTES:
1. CONCRETE MIX SHALL BE CLASS 3000 CEMENT CONCRETE.
2. WHEN CUT LINE IS LESS THAN 3' FROM ANOTHER CUTLINE, CURB, OR PAVEMENT EDGE, THE EXISTING PAVEMENT SHALL BE REMOVED TO THE CUTLINES, CURB, OR EDGE.
3. DOWELS ARE NOT REQUIRED ON THE SIDE BORDERING CURBS, LONGITUDINAL EXPANSION JOINTS, OR TRAVERSE CONSTRUCTION JOINTS.
4. DOWELS ARE TO BE INSTALLED A MINIMUM OF 6" INTO EXISTING CONCRETE PAVEMENT.
5. ALL EXISTING PAVEMENT & CONCRETE LOOSENED DURING CONSTRUCTION SHALL BE REMOVED BEFORE PATCH IS INSTALLED.

Drawing Not to Scale

City of Chehalis	
PAVEMENT PATCH	
APPROVED BY	DWG. NO. 2-6
	REVISED DATE
CITY ENGINEER	1/02/2003

GENERAL NOTES (STORM DRAIN CONSTRUCTION)

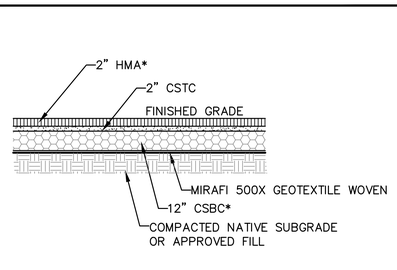
1. ALL WORKMANSHIP AND MATERIALS WILL BE IN ACCORDANCE WITH THE *CITY OF CHEHALIS PUBLIC WORKS STANDARDS* AND THE MOST RECENT COPY OF THE *STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION* (WSDOT/APWA).
2. TEMPORARY EROSION/WATER POLLUTION MEASURES WILL BE REQUIRED IN ACCORDANCE WITH THE *STORMWATER MANAGEMENT PLAN* AND *SECTION 1-07.15* OF THE *STANDARD SPECIFICATIONS*.
3. COMPLY WITH ALL OTHER PERMITS AND REQUIREMENTS OF THE CITY OF CHEHALIS AND/OR OTHER GOVERNING AUTHORITIES OR AGENCIES.
4. A PRE-CONSTRUCTION MEETING WILL BE HELD WITH THE PUBLIC WORKS DEPARTMENT **PRIOR** TO THE START OF CONSTRUCTION.
5. ALL STORM MAINS AND RETENTION/DETENTION AREAS WILL BE STAKED FOR GRADE AND ALIGNMENT BY AN ENGINEERING OR SURVEYING FIRM CAPABLE OF PERFORMING SUCH WORK.
6. STORM DRAINPIPE WILL MEET THE FOLLOWING REQUIREMENTS:
   a. PLAIN CONCRETE PIPE CONFORMING TO THE REQUIREMENTS OF AASHTO M 86, CLASS 2.
   b. REINFORCED CONCRETE PIPE CONFORMING TO THE REQUIREMENTS OF AASHTO M 170.
   c. PVC PIPE CONFORMING TO ASTM D 3034 SDR 35 OR ASTM F794 OR ASTM F679 TYPE 1 WITH JOINTS AND GASKETS CONFORMING TO ASTM D 3212 AND ASTM F 477.
   d. DUCTILE IRON PIPE CONFORMING TO THE REQUIREMENTS OF AWWA C 151, THICKNESS CLASS AS SHOWN ON THE PLANS.
   e. HIGH-DENSITY POLYETHYLENE SMOOTH INTERIOR PIPE CONFORMING TO AASHTO M252 TYPES OR AASHTO M294 TYPE S, WITH A GASKETED BELL AND SPIGOT JOINTS.
   f. ALUMINIZED STEEL HELICAL OR SPIRAL RIB PIPE IN DIAMETERS OF THIRTY (30) INCHES OR GREATER, WITH A MANNING'S VALUE OF 0.020 OR LESS.
7. SPECIAL STRUCTURES, OIL/WATER SEPARATORS AND OUTLET CONTROLS WILL BE INSTALLED PER PLANS AND MANUFACTURERS RECOMMENDATIONS.
8. PROVIDE TRAFFIC CONTROL PLAN(S) AS REQUIRED IN ACCORDANCE WITH *MUTCD* TO THE PUBLIC WORKS DEPARTMENT. TRAFFIC CONTROL PLANS MUST BE APPROVED **PRIOR** TO THE START OF CONSTRUCTION.
9. CALL THE UTILITIES UNDERGROUND LOCATION CENTER AT 1-800-424-5555 A MINIMUM OF TWO (2) BUSINESS DAYS **PRIOR** TO ANY EXCAVATIONS.
10. WHERE CONNECTIONS REQUIRE "FIELD VERIFICATIONS", THE CONTRACTOR WILL EXPOSE CONNECTION POINTS AND VERIFY NECESSARY FITTINGS TWO (2) BUSINESS DAYS **PRIOR** TO INITIATING THE WORK.
11. ALL STORM LINES AND CATCHBASINS WILL BE HIGH-VELOCITY CLEANED AND PRESSURE TESTED IN ACCORDANCE WITH *DIVISON 7* OF THE *STANDARD SPECIFICATIONS* **PRIOR** TO PAVING. HYDRANT FLUSHING OF THE LINES IS NOT AN ACCEPTABLE CLEANING METHOD. TESTING OF THE STORM MAIN WILL INCLUDE TELEVISION INSPECTION AT THE CONTRACTOR'S EXPENSE. THE DIRECTOR OF PUBLIC WORKS WILL DETERMINE WHETHER THE INSPECTION WILL BE PERFORMED BY THE CITY OR BY A REPRESENTATIVE OF THE CONTRACTOR UNDER THE CITY'S DIRECTION. TESTING WILL TAKE PLACE AFTER ALL UNDERGROUND UTILITIES ARE INSTALLED AND COMPACTION OF THE ROADWAY SUBGRADE IS COMPLETED.
12. FILL PLACEMENT WILL NOT BE ALLOWED IN ANY OPEN CHANNEL USED FOR STORM CONVEYANCE WITHOUT WRITTEN APPROVAL FROM THE PUBLIC WORKS DIRECTOR.



NOTES:
1. CATCH BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS IN WSDOT STANDARD PLAN B-1.
2. OLYMPIC FOUNDRY GRATES SM50VG OR SM50S (OR APPROVED EQUAL), MAY BE REQUIRED WHEN CONDITIONS WARRANT, AS DETERMINED BY THE PUBLIC WORKS DIRECTOR.

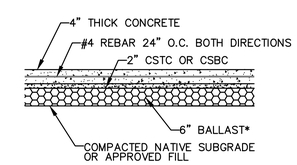
Drawing Not to Scale

City of Chehalis	
CATCH BASIN WITH SILT TRAP TEE	
APPROVED BY	DWG. NO. 3-1
	REVISED DATE
CITY ENGINEER	1/02/2003



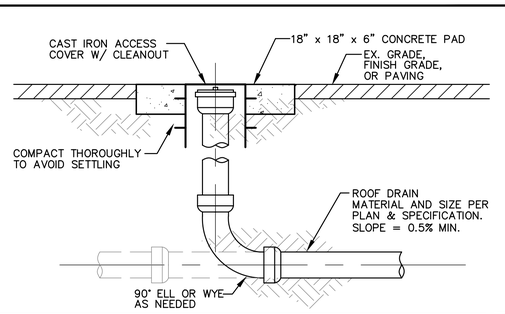
* ALL THICKNESSES ARE COMPACTED DEPTHS.

TYPICAL STRUCTURAL PAVING SECTION N.T.S. — RB ENGINEERING — PAVING SECTION.dwg



* ALL THICKNESSES ARE COMPACTED DEPTHS.

TYPICAL CONCRETE SECTION N.T.S. — RB ENGINEERING — CONC_XSEC.dwg



ROOF DRAIN CLEANOUT DETAIL N.T.S. — RB ENGINEERING — ROOF DRAIN CLEANOUT.dwg

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LEWIS COUNTY SITE DEVELOPMENT
LEWIS COUNTY FACILITIES DEPARTMENT
351 NW NORTH STREET, CHEHALIS, WA 98532
Facilities Department

ORIGINAL SHEET SIZE = 24 x 36
HALF SIZE REDUCTIONS = 11 x 17

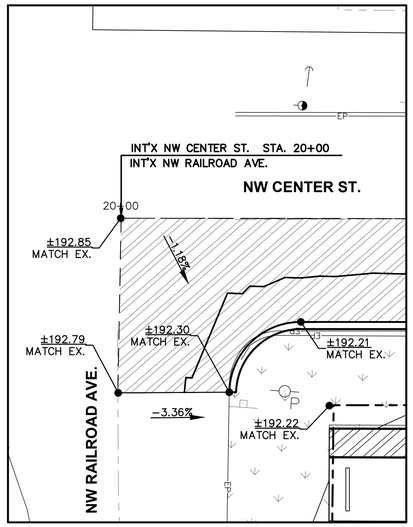
REVISIONS:
1. RAINIER PARKING 2-20-2023
2. RAINIER PATIO / PARKING 5-16-2023

DATE: 03-10-2023

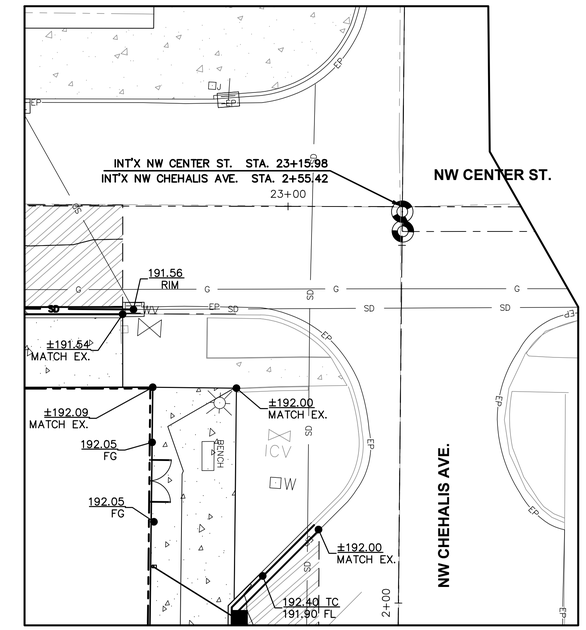
RAINIER BLOCK BID SET

SHEET NO. **C-2.5**
DRAINAGE DETAILS AND NOTES

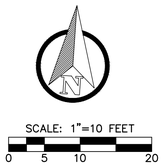
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PLOT: _AutoCAD PDF (General Documentation).pc3, ARCH full bleed D (24.00 x 36.00 Inches), RBE Full.ctb - May 16, 2023 (9:53 AM)

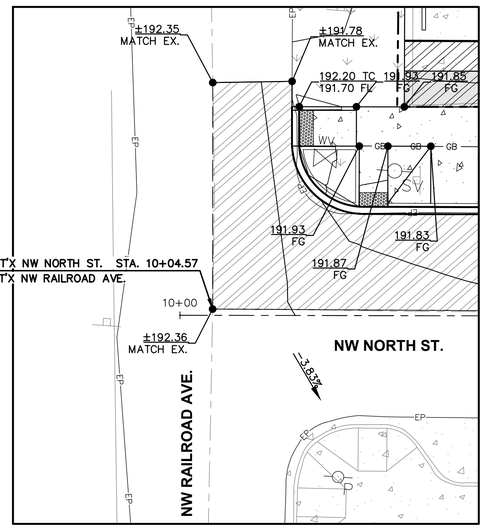


INTERSECTION DETAIL - NW CENTER ST. & NW RAILROAD AVE.
1" = 10'

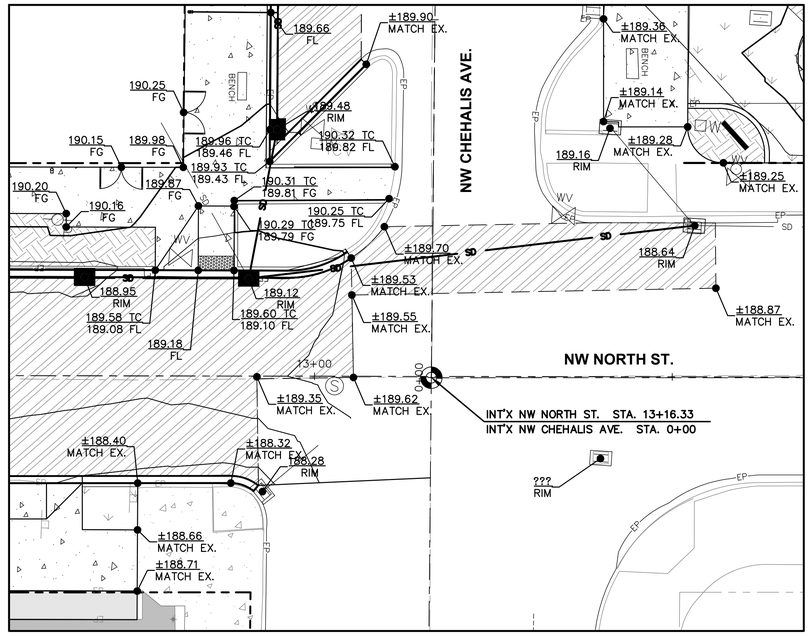


INTERSECTION DETAIL - NW CENTER ST. & NW CHEHALIS AVE.
1" = 10'





INTERSECTION DETAIL - NW NORTH ST. & NW RAILROAD AVE.
1" = 10'



INTERSECTION DETAIL - NW NORTH ST. & NW CHEHALIS AVE.
1" = 10'

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HALF SIZE REDUCTIONS = 11 x 17

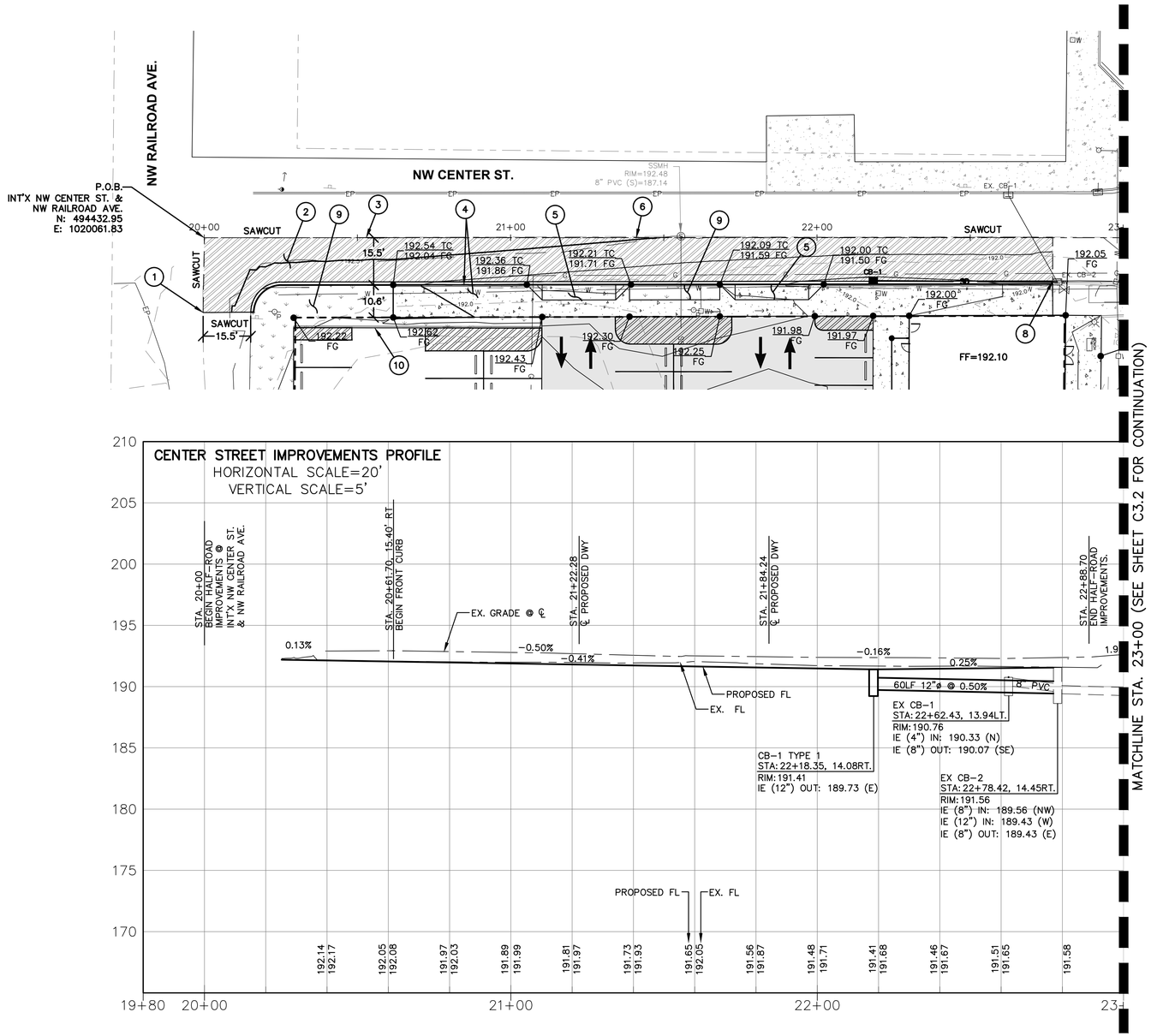
REVISIONS:
1 RAINIER PARKING 2-20-2023
2 RAINIER PATIO / PARKING 5-16-2023

DATE: 03-10-2023

RAINIER BLOCK BID SET

SHEET NO.
C-2.6
INTERSECTION DETAILS

LAST SAVE: amandap, 20095_C2.6_INTDT.dwg - May 8, 2023 (12:39 PM)
PLOT: _AutoCAD PDF (General Documentation).pc3, ARCH full bleed D (24.00 x 36.00 Inches), RBE Full.ctb - May 16, 2023 (8:53 AM)



SCALE: 1"=20 FEET
0 10 20 40

FRONTAGE CONSTRUCTION NOTES:

1. BEGIN CONSTRUCTION OF NEW HALF-ROAD IMPROVEMENTS,
   STA. 20+00, 24.30' RT
2. GRIND HALF-LANE 0.17' AND PROVIDE 0.17' HMA OVERLAY.
3. SAWCUT EX. ASPHALT ALONG EX. CROWN TO PROVIDE SMOOTH TRANSITION.
4. INSTALL NEW CONCRETE CURB, GUTTER AND SIDEWALK ALONG NW CENTER STREET PER PLAN AND PROFILE AND DETAIL ON SHEET C1.4.
5. CONSTRUCT NEW 24-FOOT WIDE TYPE 4 CONCRETE DRIVEWAY PER PLAN AND DETAILS ON SHEET C3.5. MAX 5-FOOT RAMP DEPTH.
6. SEAL ALL NEW ASPHALT JOINTS WITH EMULSIFIED ASPHALT PER CITY OF CHEHALIS ROAD STANDARDS ON SHEET C3.5.
7. CONTRACTOR SHALL CALL RB ENGINEERING AT (360) 740-8919 48 HOURS PRIOR TO POURING CONCRETE CURB AND GUTTER FOR GRADE INSPECTION OF CONCRETE CURB. NO EXCEPTIONS ALLOWED.
8. END CONSTRUCTION OF NEW HALF-ROAD IMPROVEMENTS,
   STA. 22+88.70, 15.10' RT
9. GRADE LANDSCAPE AREA IN RIGHT OF WAY PER GRADES SHOWN. HYDROSEED ALL EXPOSED SLOPES NOT COVERED IN LANDSCAPE PLAN.
10. INSTALL ±84LF EXTRUDED CURB

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Facilities Department

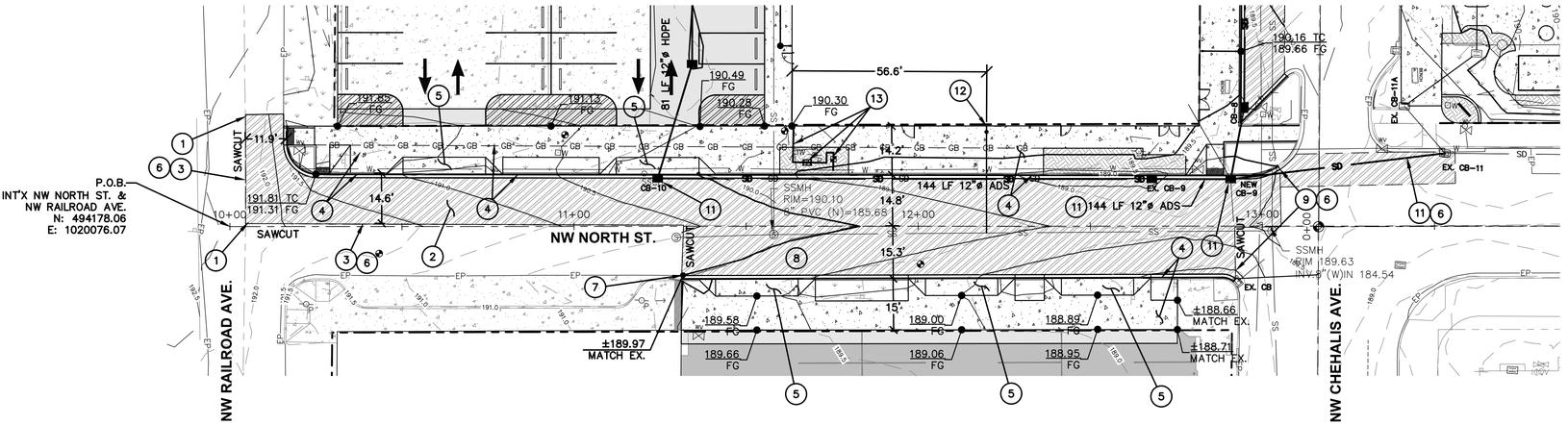
ORIGINAL SHEET SIZE = 24 x 36
HALF SIZE REDUCTIONS = 11 x 17

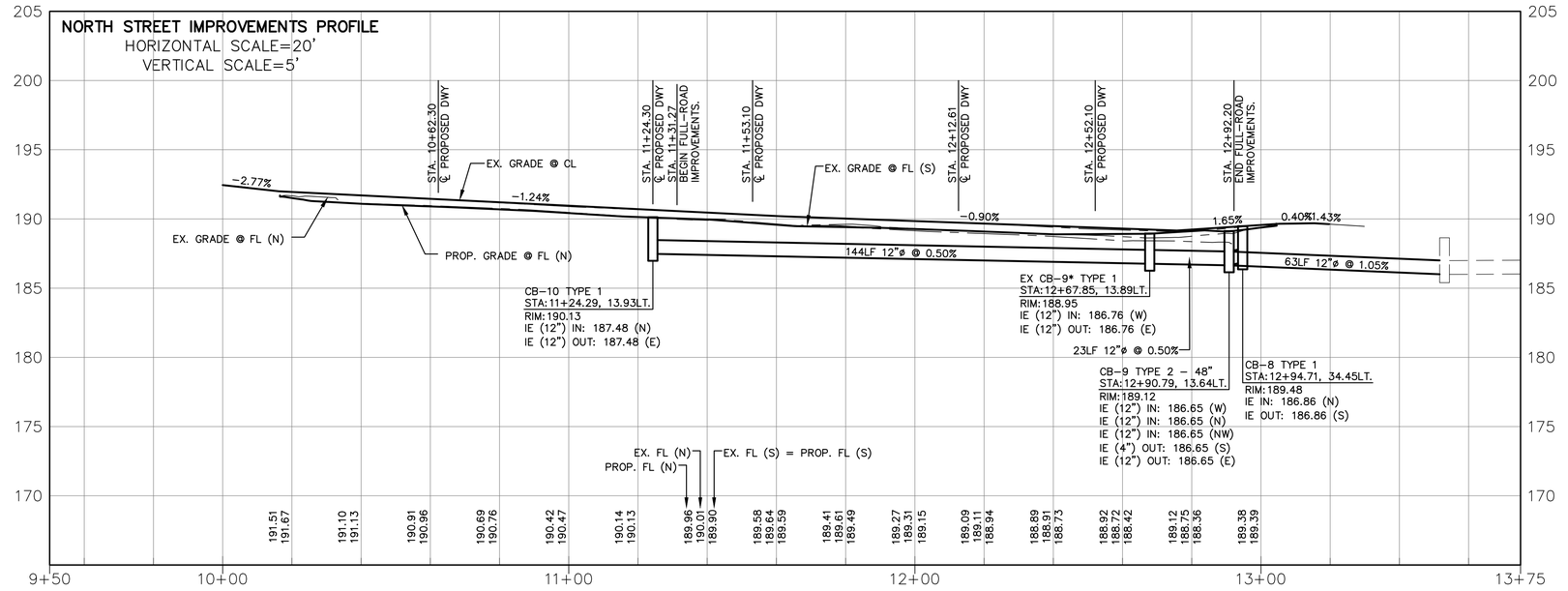
REVISIONS:
1. RAINIER PARKING 2-20-2023
2. RAINIER PATIO / PARKING 5-16-2023

DATE: 03-10-2023
RAINIER BLOCK BID SET

SHEET NO.
C-3.1
CENTER STREET ROAD AND STORM PLAN AND PROFILE

LAST SAVE: amandap, 20095, C3.1-C3.6, FIPLOT.dwg - May 8, 2023 (1:05 PM)
PLOT: , AutoCAD PDF (General Documentation).pc3, ARCH full bleed D (24.00 x 36.00 Inches), RBE Full.ctb - May 16, 2023 (8:53 AM)





FRONTAGE CONSTRUCTION NOTES:

1. BEGIN CONSTRUCTION OF NEW HALF-ROAD IMPROVEMENTS,
   STA. 10+04.51, 32.53' LT
   STA. 10+04.57, 0.87' LT
2. GRIND HALF-LANE WIDTH 0.17' AND PROVIDE 0.17' HMA OVERLAY.
3. SAWCUT EX. ASPHALT ALONG EX. CROWN TO PROVIDE SMOOTH TRANSITION.
4. INSTALL NEW CONCRETE CURB, GUTTER AND SIDEWALK ALONG NW NORTH STREET PER PLAN AND PROFILE. SEE DETAILS ON SHEET C3.5.
5. CONSTRUCT NEW 24-FOOT WIDE TYPE 4 CONCRETE DRIVEWAY PER PLAN AND DETAILS ON SHEET C3.5. MAX RAMP LENGTH 6 FT.
6. SEAL ALL NEW ASPHALT JOINTS WITH EMULSIFIED ASPHALT PER CITY OF CHEHALIS ROAD STANDARDS.
7. BEGIN CONSTRUCTION OF NEW FULL-ROAD IMPROVEMENTS,
   STA. 11+31.27, 15.24' RT
8. GRIND FULL-ROAD WIDTH 0.17' AND PROVIDE 0.17' HMA OVERLAY.
9. END CONSTRUCTION OF NEW FULL-ROAD IMPROVEMENTS,
   STA. 12+92.17, 15.15' RT
   STA. 13+05.10, 16.68' LT
10. CONTRACTOR SHALL CALL RB ENGINEERING AT (360) 740-8919 48 HOURS PRIOR TO POURING CONCRETE CURB AND GUTTER FOR GRADE INSPECTION OF CONCRETE CURB. NO EXCEPTIONS ALLOWED.
11. INSTALL NEW STORM DRAINAGE PIPE AND CATCH BASINS PER CITY STANDARDS AND DETAILS ON SHEET C2.5. RESTORE ROAD PER CITY DETAIL ON SHEET C2.5.
12. INSTALL 6" SANITARY SEWER WITH CLEANOUT 24" CLEAR AT INV OUT = 186.07 (VERIFY WITH BUILDING PLUMBER). INSTALL 31 L.F. 6" SEWER LATERAL AT S=0.010 MIN AND CONNECT TO EXISTING 8"ø SEWER MAIN IE = ±185.20.
13. REMOVE EXISTING METER AND CAP AT SERVICE TAP AT MAIN. INSTALL 1.5" SERVICE SADDLE, LINE TO NEW WATER METER.INSTALL 1.5" DOMESTIC WATER METER AND RPBA. SEE DETAIL ON SHEET C3.7. PROVIDE 2" SERVICE LINE TO BUILDING, COORDINATE CONNECTION WITH BUILDING PLUMBER.

SCALE: 1"=20 FEET
0 10 20 40

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Facilities Department

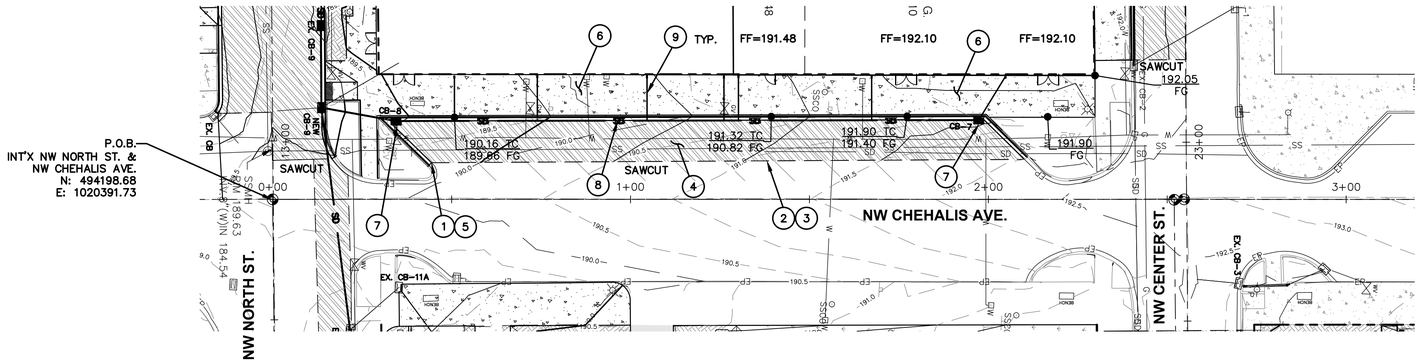
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HALF SIZE REDUCTIONS = 11 x 17

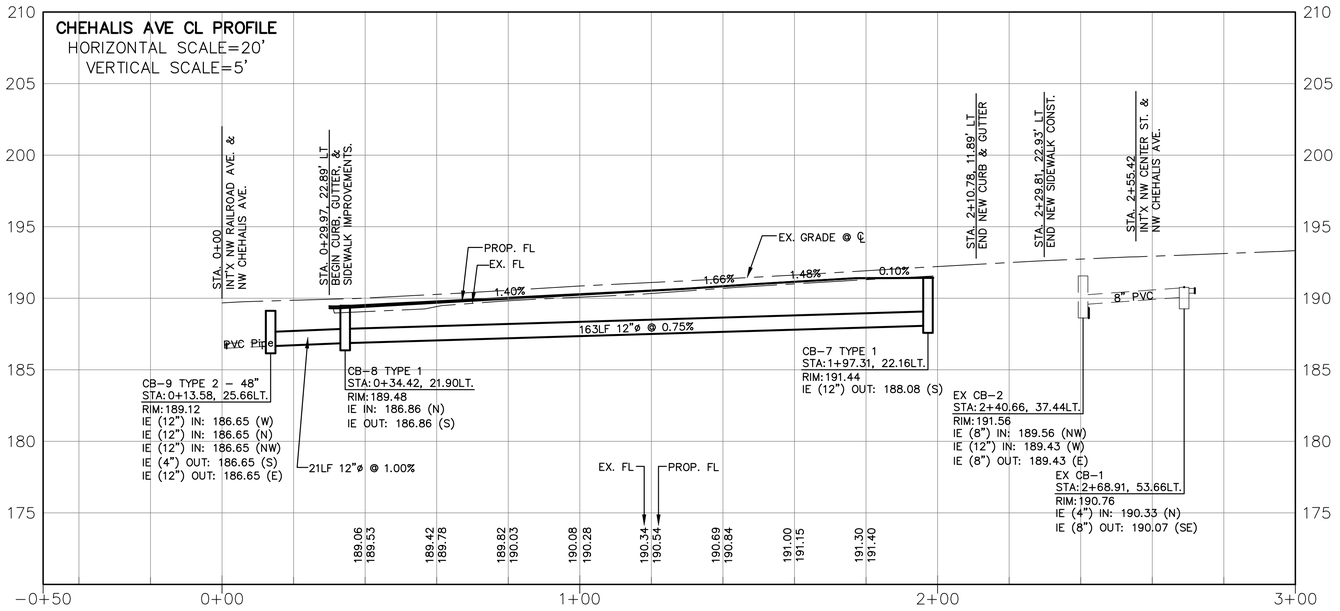
REVISIONS:
1 RAINIER PARKING 2-20-2023
2 RAINIER PATIO / PARKING 5-16-2023

DATE: 03-10-2023
RAINIER BLOCK BID SET

SHEET NO.
C-3.3
NORTH STREET ROAD AND STORM PLAN AND PROFILE

LAST SAVE: amanda (20095_C3.1-C3.6_FIPLOT.dwg - May 8, 2023, (1:05 PM))
PLOT: - AutoCAD PDF (General Documentation).pc3, ARCH full bleed D (24.00 x 36.00 Inches), RBE Full.ctb - May 16, 2023 (9:54 AM)





FRONTAGE CONSTRUCTION NOTES:

1. BEGIN CONSTRUCTION OF NEW CONCRETE CURB, GUTTER AND SIDEWALK PER PLAN AND PROFILE.
2. SAWCUT EX. ASPHALT PER PLAN TO PROVIDE SMOOTH TRANSITION.
3. SEAL ALL NEW ASPHALT JOINTS WITH EMULSIFIED ASPHALT PER CITY OF CHEHALIS ROAD STANDARDS.
4. REMOVE ASPHALT, GRADE AND PROVIDE MIN. 0.17' HMA OVERLAY.
5. CONTRACTOR SHALL CALL RB ENGINEERING AT (360) 740-8919 48 HOURS PRIOR TO POURING CONCRETE CURB AND GUTTER FOR GRADE INSPECTION OF CONCRETE CURB. NO EXCEPTIONS ALLOWED.
6. CONSTRUCT NEW CONCRETE SIDEWALK PER PLAN AND DETAIL ON SHEET C3.5.
7. INSTALL NEW TYPE 1 CATCH BASIN PER PLAN AND DETAILS ON SHEET C2.5.
8. INSTALL NEW 12"ø N12 PIPE PER PLAN WITH 12x4 TEES FOR ROOF LEADERS.
9. INSTALL 4"ø SDR35 ROOF DRAIN LEADERS AND STUB UP AT DOWNSPOUTS 2" ABOVE NEW SIDEWALK GRADE. VERIFY BLDG DOWNSPOUT LOCATIONS WITH ARCHITECT ROOF PLAN.

SCALE: 1"=20 FEET
0 10 20 40

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LEWIS COUNTY FACILITIES DEPARTMENT
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Facilities Department

ORIGINAL SHEET SIZE = 24 x 36
HALF SIZE REDUCTIONS = 11 x 17

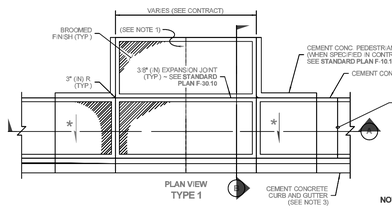
REVISIONS:
1. RAINIER PARKING 2-20-2023
2. RAINIER PATIO / PARKING 5-16-2023

DATE: 03-10-2023

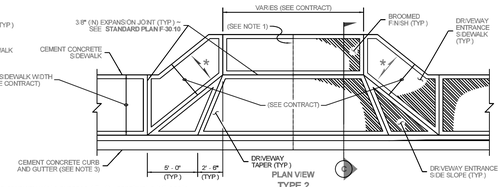
RAINIER BLOCK BID SET

SHEET NO.
C-3.4
CHEHALIS AVENUE ROAD AND STORM PLAN AND PROFILE

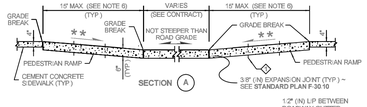
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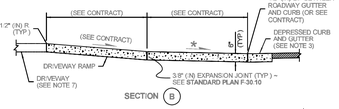
PLAN VIEW
TYPE 1



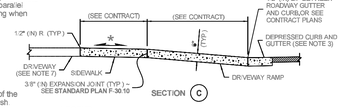
PLAN VIEW
TYPE 2



SECTION (A)



SECTION (B)



SECTION (C)

NOTES

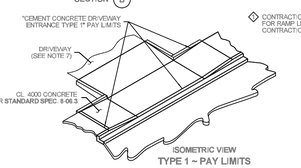
1. When the driveway width exceeds 15' (ft), construct a full depth expansion joint with 3/8" (in) joint filler along the driveway centerline. See **Standard Plan F-30.10**. Construct expansion joints parallel with the centerline as required at 15' (ft) maximum spacing when driveway widths exceed 30' (ft).
2. See **Standard Plan F-30.10** for sidewalk details.
3. Curb and Gutter shown, see the Contract Plans for the curb design specified. See **Standard Plan F-10.12** for Curb Details.
4. Avoid placing drainage structures, junction boxes or other obstructions in front of driveway entrances.
5. Where "GRADE BREAK" is called out, the entire length of the line between the two adjacent surface planes shall be flush.
6. The Pedestrian Ramp length is not required to exceed 15 feet (unless otherwise shown in the Contract Plans). When applying the 15-foot max. length (measured from back of sidewalk) the running slope of the pedestrian ramp is allowed to exceed 8.3%. Use a single constant slope from bottom of ramp to top of ramp to match into the sidewalk over a horizontal distance of 15 feet.
7. Beyond limits shown. Pay item does not include driveway. See Contract Plans.

LEGEND

SLOPE IN EITHER DIRECTION

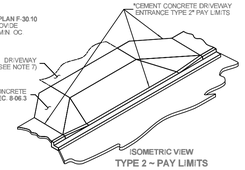
* 1.5% OR FLATTER RECOMMENDED FOR DESIGN FORMWORK (2% MAX.)

** 7.5% OR FLATTER RECOMMENDED FOR DESIGN FORMWORK (8.3% MAX.) (SEE NOTE 6)



ISOMETRIC VIEW
TYPE 1 ~ PAY LIMITS

◇ CONTRACTION JOINT (TYP.) ~ SEE **STANDARD PLAN F-30.10** FOR RAMP LENGTHS GREATER THAN 8' - 0" PROVIDE CONTRACTION JOINT EQUALLY SPACED 4' - 0" MIN. OC



ISOMETRIC VIEW
TYPE 2 ~ PAY LIMITS

CEMENT CONCRETE DRIVEWAY ENTRANCE
TYPES 1, 2, 3, & 4
STANDARD PLAN F-80.10-04
SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION
DATE SIGNATURE
Washington State Department of Transportation

DRAWN BY: FERN LODELL

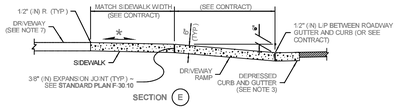


PLAN VIEW
TYPE 3

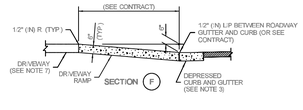


PLAN VIEW
TYPE 4*

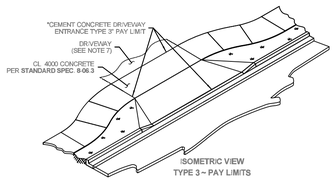
*THIS ENTRANCE TYPE SHALL NOT BE USED ALONG A PEDESTRIAN ROUTE



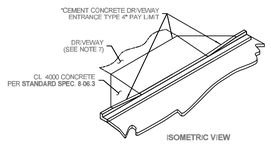
SECTION (E)



SECTION (F)



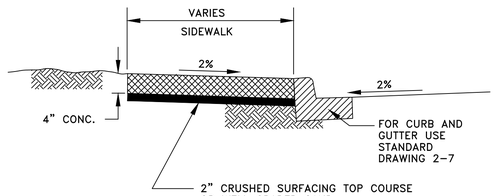
ISOMETRIC VIEW
TYPE 3 ~ PAY LIMITS

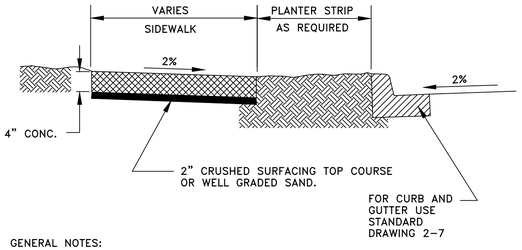


ISOMETRIC VIEW
TYPE 4 ~ PAY LIMITS

CEMENT CONCRETE DRIVEWAY ENTRANCE
TYPES 1, 2, 3, & 4
STANDARD PLAN F-80.10-04
SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION
DATE SIGNATURE
Washington State Department of Transportation





GENERAL NOTES:

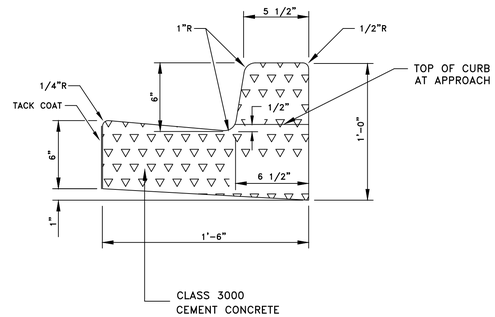
1. REFER TO STANDARD DRAWING 2-10 FOR INFORMATION ON JOINTS AND SCORING.
2. SIDEWALK ACROSS CONCRETE DRIVEWAYS REQUIRE A MINIMUM DEPTH OF 6" FOR RESIDENTIAL DRIVES & 8" FOR ALL OTHER DRIVES.
3. WHEN CHECKED WITH A 10' STRAIGHTEDGE, GRADE SHALL NOT DEVIATE MORE THAN 1/8 INCH & ALIGNMENT SHALL NOT VARY MORE THAN 1/4 INCH.

Drawing Not to Scale

City of Chehalis

SIDEWALK

APPROVED BY	DWG. NO. 2-9
	REVISED DATE 1/02/2003
CITY ENGINEER	



GENERAL NOTES:

1. EXPANSION JOINT MATERIAL TO BE 3/8" THICK PREMOLDED JOINT FILLER FULL THICKNESS OF CONCRETE.
2. FORM AND SUBGRADE INSPECTION REQUIRED BEFORE POURING CONCRETE.
3. SUBGRADE AND BASE REQUIREMENTS SHALL BE THE SAME AS FOR PAVEMENT RESTORATION.

Drawing Not to Scale

City of Chehalis

CEMENT CONCRETE CURB & GUTTER

APPROVED BY	DWG. NO. 2-7
	REVISED DATE 1/02/2003
CITY ENGINEER	

GENERAL NOTES (STREET CONSTRUCTION)

1. ALL WORKMANSHIP AND MATERIALS WILL BE IN ACCORDANCE WITH CITY OF CHEHALIS STANDARDS AND THE MOST RECENT EDITION OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.

2. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL IN ACCORDANCE WITH MUTCD. PRIOR TO DISRUPTION OF ANY TRAFFIC, TRAFFIC CONTROL PLANS MUST BE PREPARED AND SUBMITTED TO THE CITY FOR APPROVAL. NO WORK WILL COMMENCE UNTIL ALL APPROVED TRAFFIC CONTROL PLANS ARE IN PLACE.

3. ALL CURB AND GUTTER, STREET GRADES, SIDEWALK GRADES, AND ANY OTHER VERTICAL AND/OR HORIZONTAL ALIGNMENT, WILL BE STAKED BY AN ENGINEERING OR SURVEYING FIRM CAPABLE OF PERFORMING SUCH WORK.

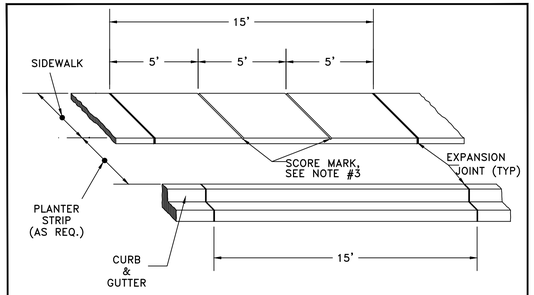
4. WHERE NEW ASPHALT JOINS EXISTING, THE EXISTING ASPHALT WILL BE CUT TO A NEAT VERTICAL EDGE AND TACKED WITH ASPHALT EMULSION TYPE CSS-1 IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE NEW ASPHALT WILL BE FEATHERED BACK OVER EXISTING TO PROVIDE FOR A SEAL AT THE SAW CUT LOCATION AND THE JOINT SEALED WITH GRADE AR-4000W PAVING ASPHALT.

5. COMPACTION OF SUBGRADE, ROCK AND ASPHALT WILL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

6. FORM AND SUBGRADE INSPECTION BY THE PUBLIC WORKS DEPARTMENT IS REQUIRED BEFORE POURING CONCRETE. TWENTY-FOUR HOURS (ONE WORK DAY) ADVANCE NOTICE IS REQUIRED FOR FORM INSPECTION.

7. TESTING AND SAMPLING FREQUENCIES ARE DESCRIBED IN THESE STANDARDS.

8. THE PUBLIC WORKS DEPARTMENT WILL INSTALL OR OVERSEE THE INSTALLATION OF STREET NAME AND REGULATORY SIGNS AT THE CONTRACTOR'S AND/OR THE DEVELOPER'S EXPENSE. ALL STREET NAME AND REGULATORY SIGNS WILL BE REQUESTED AND APPROVED BY THE CITY PRIOR TO THE START OF CONSTRUCTION.



GENERAL NOTES:

1. EXPANSION JOINT MATERIAL TO BE 3/8" THICK PREMOLDED JOINT FILLER FULL THICKNESS OF CONCRETE.
2. FORM AND SUBGRADE INSPECTION REQUIRED BEFORE POURING CONCRETE.
3. SCORE MARKS SHALL BE ±1/8" WIDE BY ±1/4" DEEP. FOR SIDEWALKS OVER 8' IN WIDTH, A LONGITUDINAL SCORE MARK SHALL BE MADE ALONG CENTER OF WALK.
4. EXPANSION JOINTS SHALL BE INSTALLED IN CURB AND GUTTER AND IN SIDEWALK AT PC AND PT AT ALL CURB RETURNS. EXPANSION JOINTS SHALL BE PLACED IN SIDEWALK AT SAME LOCATIONS AS THOSE IN CURB AND GUTTER WHEN SIDEWALK IS ADJACENT TO CURB AND GUTTER, UNLESS OTHERWISE DIRECTED BY ENGINEER.

City of Chehalis

SIDEWALK SPACING
EXPANSION JOINTS & SCORE MARKS

APPROVED BY	DWG. NO. 2-10
	REVISED DATE 1/02/2003
CITY ENGINEER	

KMB architects
906 Columbia Street SW, Suite 400
Olympia, Washington 98501
360.352.8883

KMB Project # J2037C
RBE Project # 20095

RB Engineering
• DESIGN
• PERMIT
• MANAGE
91 SW 13th Street
PO Box 923
Chehalis, WA 98532
360.740.8919

811 Know what's below. Call 811 before you dig.

LEWIS COUNTY SITE DEVELOPMENT
LEWIS COUNTY FACILITIES DEPARTMENT

351 NW NORTH STREET, CHEHALIS, WA 98532
Facilities Department

ORIGINAL SHEET SIZE = 24 x 36
HALF SIZE REDUCTIONS = 11 x 17

REVISIONS:
1. RAINIER PARKING 2-20-2023
2. RAINIER PATIO / PARKING 5-16-2023

DATE: 03-10-2023

RAINIER BLOCK BID SET

SHEET NO.
C-3.5
FRONTAGE IMPROVEMENT DETAILS AND NOTES

LAST SAVE: amandap 20095_C3.1-C3.6_FIP.DT.dwg - May 8, 2023 (1:05 PM)
PLOT: _AutoCAD PDF (General Documentation).pc3_ARCH full bleed D (24.00 x 36.00 Inches)_RBE Full.ctb - May 16, 2023 (8:54 AM)

General Notes (Watermain Installation)

1. All workmanship and material will be in accordance with *City of Chehalis Standards* and the most recent copy of the *WSDOT/APWA Standard Specifications for Road, Bridge and Municipal Construction, American Water Works Association (AWWA) Standards* and *ANSI/NSF Standard 60* or *61*.

2. A pre-construction meeting will be held with the Public Works Department **prior** to the start of construction.

3. All watermains will be ductile iron cement mortar lined thickness Class 52.

4. Gate valves will be resilient wedge, NRS (non-rising stem) with O-rings seals. Valve ends will be mechanical joint or ANSI flanges. Valves will conform to AWWA 509-80. Valves will be Mueller, M & H, Kennedy, Clow R/W or Waterous Series 500. Existing valves and all valves installed directly to and connected to a portion of the active water system are to be operated by city employees only.

5. Fire hydrants will be Mueller Centurion A-423, M & H Reliant style 129, Clow Medallion, or Kennedy Guardian K81D. Hydrants will be installed in accordance with the most recent version of the *Uniform Fire Code*. Hydrants will be bagged and the connecting gate valves left closed until the system has been approved. Hydrants must be painted with sunburst yellow high-grade enamel after installation.

6. All lines will be chlorinated and tested in conformance with the above referenced specifications. (see *Note 1*)

7. All pipes and services will be installed with continuous tracer tape placed twelve (12) to eighteen (18) inches under the proposed finished subgrade. The marker will be of plastic non-biodegradable, metal core, or backing marked "WATER" that can be detected by a standard metal detector. Tape will be Terra Tape "D" or approved equal. In addition to tracer tape, toning wire will be installed over all pipe and services. Toning wire will be UL listed, type UF, fourteen (14) gauge solid coated copper wire, taped to the top of the pipe to prevent movement during backfilling and laid loose enough to prevent stretching and damage before being brought up and tied off at the valve operating nut or valve box. If the operating nut is not easily accessible from the ground surface, the copper wire will be tied off at the valve box in such a way that the wire is easily accessible from the ground surface. Two (2) feet of slack will be provided to allow for connection to the locator.

   A 1-lb magnesium anode will be buried with the pipe every 1,000 linear feet maximum for cathodic protection of the toning wire. Toning wire splices and connections to anodes will join wires both mechanically and electrically and will employ epoxy resin or heat-shrink tape insulation. Toning wire will be tested **prior** to acceptance of the pipe system. A written notice from the contractor to the city must be received two (2) business days **prior** to when testing is required.

8. The contractor will provide traffic control plan(s) as required in accordance with *MUTCD*.

9. All watermains will be staked for grades and alignment by an engineering or surveying firm capable of performing such work. Staking will be maintained throughout construction.

10. All service line and water valve locations will be marked on the face of the adjacent curb with a "W" or "WV" embossed ¼-inch into the concrete.

11. All water system connections serving buildings or properties with domestic potable water, fire sprinkler or irrigations systems will comply with the minimum backflow prevention requirements established by the *Department of Health* (*DOH*) and the *City of Chehalis Cross-Connection Control Program*.

12. Call *Utilities Underground Location Center* at *1-800-424-5555* a minimum of two (2) business days **prior** to any excavations.

13. The city will be notified five (5) business days **prior** to scheduling a water system shutdown. The city's Water Division will perform all water system shutdowns. When connections require "field verification," connection points will be exposed by the contractor and fittings verified by the city two (2) business days **prior** to the distribution of shutdown notices. Customers involved with or affected by water service interruptions will be notified at least forty-eight (48) hours in **advance**. Shutdowns will not be permitted on Fridays, weekends, or holidays without written authorization from the Director of Public Works.

14. When connecting to an existing waterline where a new valve is not to be installed, the existing valve must be pressure tested to these *Standards* by the contractor **prior** to connection. If an existing valve fails to pass the test, the contractor will make the necessary additional provisions to test the new line **prior** to connecting to the existing system or will install a new valve. New lines will not be connected to the existing system until all required tests have been passed.

General Notes (Sanitary Sewer Main Installation)

1. All workmanship and materials will be in accordance with *City of Chehalis Standards* and the most recent copy of the State of *Washington Standard Specifications for Road, Bridge and Municipal Construction (WSDOT/APWA)*.

2. City of Chehalis datum will be used for all vertical control. A list of benchmarks is available at the Public Works Department.

3. All approvals and permits required by the City of Chehalis, will be obtained by the contractor **prior** to the start of construction.

4. If construction is to take place in the County right-of-way, the contractor will notify the County and obtain all the required approvals and permits.

5. A pre-construction meeting will be held with a Public Works Department representative **prior** to the start of construction.

6. The Public Works Department will be notified a minimum of two (2) business days in **advance** of a tap connection to an existing main. A Public Works representative will be present at the time of the tap.

7. The contractor will be fully responsible for the location and protection of all existing utilities. The contractor will verify all utility locations **prior** to construction by calling the *Utilities Underground Location Center* at *1-800-424-5555* a minimum of two (2) business days **prior** to any excavation.

8. All sewer mains will be field staked for grades and alignment by a licensed engineering or surveying firm qualified to perform such work. Staking will be maintained throughout construction.

9. All pipe and services will be installed with continuous tracer tape placed twelve (12) to eighteen (18) inches under the proposed finished subgrade. The marker will be of plastic non-biodegradable, metal core or backing marked "SEWER" that can be detected by a standard metal detector. If visibility cannot be maintained between structures along the straight alignment of a sewer, toning wire will be installed above the sewer line at a depth no greater than 48 inches. Tape will be Terra Tape "D" or an approved equal. In addition, STEP mains, force mains, and curvilinear sewers will be installed with toning wire taped to the top of the pipe to prevent movement during backfill.

   If toning wire is required, it will be UL listed, type UF, 14-gauge copper. The wire will be laid loosely enough to prevent stretching and damage. The wire will be wrapped to a manhole or cleanout rings on gravity sewer or valve body on STEP mains.

   A 1-lb magnesium anode will be buried with the pipe every 1,000 linear feet maximum for cathodic protection of the wire. Toning wire splices and connections to anodes will join wires both mechanically and electrically and will employ epoxy resin or heat-shrink tape insulation. Toning wire will be tested **prior** to acceptance of the pipe system. A written notice from the contractor to the city two (2) business days **prior** to testing is required. On a curvilinear sewer, the wire will be brought up, bared and wrapped three (3) times around the manhole ring. The tape and wire will be furnished and installed by the contractor.

10. Bedding of the sewer main and compaction of the backfill material will be required in accordance with the above specification. (See *General Note 1*)

11. All manholes and cleanouts outside the paved area will be installed in accordance with *Standard Drawings 5.3* and *5.5*.

12. When temporary street patching is allowed by the city, cold mix asphalt will be placed to a maximum depth of one (1) inch. The contractor will be responsible for maintenance as required by the city.

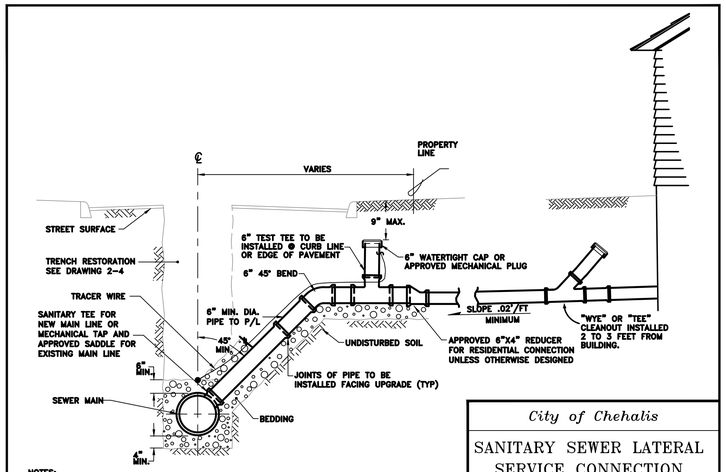
13. Erosion control measures conforming to the most recent version of the *City of Chehalis Stormwater Management Plan* and *Chapter 3* of these *Standards* will be taken by the contractor during construction to prevent infiltration of existing and proposed storm drainage facilities and roadways.

14. Provide traffic control plan(s) in accordance with the *Manual on Uniform Traffic Control Devices (MUTCD)* as required.

15. It will be the responsibility of the contractor to have a copy of the approved construction plans on-site at all times. "Approved" plans, are typically signified by the signature of the Director of Public Works.

16. Any changes to the design will first be reviewed and approved by the developer's project engineer and then the Director of Public Works **prior** to implementation.

17. **Prior** to backfill, all mains and appurtenances will be inspected and approved by a Public Works representative. Approval does constitute final acceptance of the sewer line. The contractor will retain responsibility to repair all deficiencies and failures revealed during all required testing for acceptance and throughout the duration of the warranty. It is the contactor's responsibility to notify the Public Works Department in **advance** of all required inspections. Any main or appurtenance backfilled **prior** to inspection will be re-excavated for inspection at no cost to the city.



NOTES:

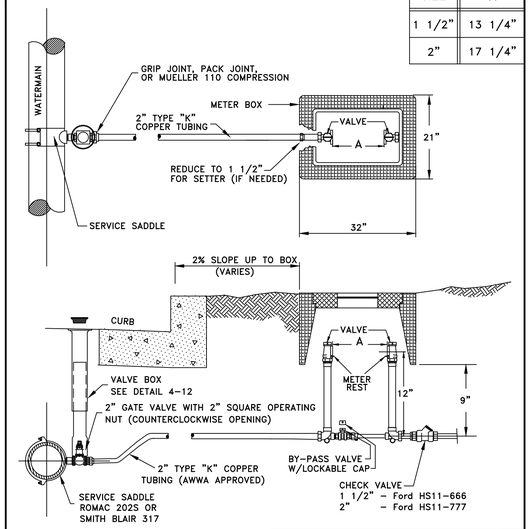
1. SIDE SEWER PIPE TO BE PVC ASTM D3034.
2. ALL JOINTS & CONNECTIONS TO BE RUBBER GASKETED TYPE CONFORMING TO ASTM D3212.
3. BEDDING AND GRADE SHALL BE ESTABLISHED PRIOR TO PIPE BEING PLACED IN TRENCH.

City of Chehalis

SANITARY SEWER LATERAL SERVICE CONNECTION

APPROVED BY	DWG. NO. 5-10
CITY ENGINEER	REVISED DATE 1/02/2003

SIZE	A
1 1/2"	13 1/4"
2"	17 1/4"



NOTES:

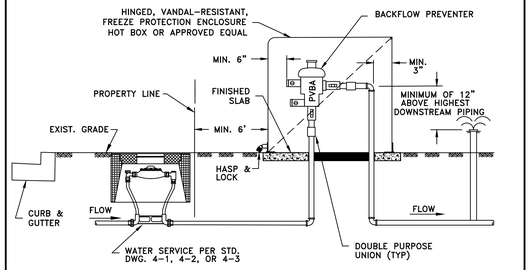
1. ALL SERVICE SADDLES SHALL HAVE RUBBER GASKET, I.P. THREADS, & STAINLESS STEEL DOUBLE STRAPS.
2. CITY STANDARD FOR COPPER SETTERS ARE:
   1 1/2" - FORD VVF76-12B-13-11-66
   2" - FORD VVF77-12B-17-11-77

DRAWING NOT TO SCALE

City of Chehalis

1 1/2"-2" WATER SERVICE WITH BYPASS

APPROVED BY	DWG. NO. 4-3
CITY ENGINEER	REVISED DATE 1/02/2003



NOTES:

1. BACKFLOW ASSEMBLY SHALL BE WASHINGTON STATE DEPT. OF HEALTH APPROVED MODEL.
2. THE BACKFLOW ASSEMBLY SHALL BE TESTED AFTER INSTALLATION AND PRIOR TO ACCEPTANCE BY A CERTIFIED BACKFLOW ASSEMBLY TESTER. ANNUAL TESTING IS REQUIRED THEREAFTER. TEST RESULTS SHALL BE SENT TO THE CHEHALIS WATER SUPT.
3. ALL MATERIALS TO BE BRASS OR COPPER AS APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
4. THE BACKFLOW ASSEMBLY SHALL BE PROTECTED FROM FREEZING AND FLOODING.
5. FINISHED SLAB SHALL BE SLOPED TO DRAIN.
6. ALL VAULTS SHALL BE PRE-APPROVED PRIOR TO INSTALLATION.

DRAWING NOT TO SCALE

City of Chehalis

1/2"-2" PVBA/SVBA BACKFLOW PREVENTER

APPROVED BY	DWG. NO. 4-17
CITY ENGINEER	REVISED DATE 1/02/2003

KMB architects
906 Columbia Street SW, Suite 400
Olympia, Washington 98501
360.352.8883

KMB Project # J2037C
RBE Project # 20095

RB Engineering
• DESIGN
• PERMIT
• MANAGE
91 SW 13th Street
PO Box 923
Chehalis, WA 98532
360.740.8919

811 Know what's below. Call 811 before you dig.

LEWIS COUNTY SITE DEVELOPMENT
LEWIS COUNTY FACILITIES DEPARTMENT
351 NW NORTH STREET, CHEHALIS, WA 98532
Facilities Department

ORIGINAL SHEET SIZE = 24 x 36
HALF SIZE REDUCTIONS = 11 x 17

REVISIONS:
1. RAINIER PARKING 2-20-2023
2. RAINIER PATIO / PARKING 5-16-2023

DATE: 03-10-2023

RAINIER BLOCK BID SET

SHEET NO. C-3.7

WATER AND SEWER SERVICE DETAILS AND NOTES

LAST SAVE: amanday, 20095_C3.1-C3.6_FIP.LDT.dwg - May 8, 2023 (1:05 PM)
PLOT: _AutoCAD PDF (General Documentation).pc3, ARCH full bleed D (24.00 x 36.00 Inches), RBE Full.ctb - May 16, 2023 (9:54 AM)

LEWIS COUNTY DOWNTOWN PROJECTS

SECTION 32, TOWNSHIP 14 NORTH, RANGE 02 WEST, W.M.

LEWIS COUNTY, WA

GENERAL IRRIGATION NOTES

1. This plan is schematic & diagrammatic. The intent of plan is to indicate basic components, locations and scope of proposed irrigation system. Landscape Contractor may make minor field adjustments as needed as a "design-build" effort to successfully complete a fully operational system.
2. The contractor shall assure full and even water coverage to all planting areas, adjustments may be required. Plan components are schematic.
3. An electrical permit must be obtained from the City of Chehalis.
4. The ex. static & operating water pressure shall be verified by the City of Chehalis prior to construction as seasonal pressure variation may occur.
5. Install PVC sleeving as shown at all pavement, sidewalk & wall locations. Place in straight-line segments prior to pavement installation. Extend all sleeving 12" beyond edge of pavement crossing.
6. Adhere to all applicable codes, install all components per manufacturer's instructions. Verify codes, water scheduling & tests w/ City of Chehalis.
7. Install 24-volt wiring (UF 600 volt) direct burial, 14 GA., solid copper wire or strand. Splice in valve boxes only. Route all wiring in 4" elect. conduit to the controller. Run (1) "hot" wire to each valve and (1) common wire through each valve. Provide (1) spare wire at the end of the mainline run. The control wire shall be red, ground wire white & the spare blue.
8. Irrigation controller shall be set for this site to avoid irrigation between the hours of 9:00 AM to 10:00 PM. In addition, irrigation system should not be operated during times of moderate-high wind, excessive or adequate soil moisture or during active precipitation.
9. Provide a minimum of 3 quick coupler valves. The entire system shall be winterized prior to the first freeze by using compressed air. Install a teflon seated ball valve w/ brass body & T-fitting for winterization.
10. The contractor shall inspect, prevent, detect & repair any irrigation system damage which shall include excessive leakage or wear on system. Any future repairs or adjustments shall have the same system components.
11. The irrigation contractor shall provide an irrigation as-built plan submitted on a 24" x 36" mylar plan sheet to the landscape architect for review and approval and to the owner and city for record storage.
12. The irrigation contractor shall provide a written summary of the system design, including any hydraulic calculations, operating instructions and submit to the landscape architect and owner. The irrigation installer shall arrange a site visit with the owner to review operational procedures.

LANDSCAPE SET SHEET INDEX

L-100	COVER SHEET
L-200	LANDSCAPE PLAN
L-201	IRRIGATION PLAN
L-202	LARGE-SCALE PLAN
L-600	SITE DETAILS
L-601	LANDSCAPE DETAILS
L-602	IRRIGATION DETAILS

VICINITY MAP



GENERAL LANDSCAPE NOTES

1. Plant material shall conform to guidelines established by the American Nurseryman's Association by the American Standard for Nursery Stock.
2. Defective/dead plants shall be replaced w/in 6 months after notification from City w/living plants of equal size to original plant. Plants are under a 1-year warranty from date of Substantial Completion.
3. Landscape contractor shall field locate all utility lines prior to the start of construction. The use of on-site utility plans as a part of this contract are available for review.
4. All plants shall be balled & burlapped or container grown as specified. No container grown stock will be accepted if deemed to be root-bound. All plastic root wrapping material shall be removed. No bare root stock will be accepted unless submitted in writing for approval.
5. Plants shall originate from established nurseries located w/in region of project . Plants that are not available in size specified or quantity may be secured from outside the region if submitted for review and approval.
6. All plants shall meet the minimum size specified on the plan. One plant from each grouping shall be labeled, indicating the plant name and size. Tags shall then be removed after review.
7. All plants shall be sprayed w/a anti-dessicant w/in the first 24 hours.
8. All plants shall be installed per the planting details. Alternate staking methods may be proposed for review and approval.
9. Stockpile plant material upon delivery to the site in a shady location, embedded in sawdust or mulch. Stockpile all plants near a source of water - water at least once a day to maintain healthy plant stock.
10. A pre & post-emergent herbicide shall be applied except at Storm Swale and Street Trees. Herbicide shall be Surflan A.S. tank-mixed w/Roundup (4 qt's. / acre. Adhere to all product manufacturer's directions in addition to all environmental regulations. Do not apply in areas that drain directly to critical sensitive areas. Do not apply when wind speed exceeds 5 mph.
11. An insecticide and fungicide application shall be performed w/ type to be selected by contractor and submitted in writing for review & approval.
12. Planting beds shall have a mix of 2"(d) layer of medium-ground bark, or gravel rock mulch where indicated. Rake beds smooth. Tamp-down areas adjacent to conc. pads/walks to compact, then add additional bark to 1/4"-1/2" below finish grade of conc. surface. (where occuring)
13. Install all plant material during favorable weather and within seasonal planting limitations. Do not install plants when daily high temperatures exceed 90°(F) degrees or low temperatures are below 32°(F) degrees. Flowering fruit trees may need to be dug after 3 consecutive nights of temperatures less than 45 (f) degrees in the Fall or as determined by local nursery. Weather data will be from the nearest airport location to project site (Chehalis - Centralia Airport)
14. Apply fertilizer tablets as indicated in the following table:

1 gallon	= 2 tablets
2-5 gallon	= 3 tablets
1.5" cal. - 2.0" cal.	= 6 tablets
2.0" cal. - 4.0" cal.	= 8 tablets
6.0' - 8.0' + high	= 7 tablets

15. Lack of maintenance shall constitute a violation of local Municipal Code.
16. Landscaped areas on private property shall be reasonably maintained by Owner or Lessee of the property as to pruning, watering or other requirements to create an attractive, safe appearance for development. Landscape Contractor shall submit a "Maintenance Manual" that will identify weekly, monthly, annual & biennial maintenance regimes.
17. On-site tree locations that are 4' or less to a utility structure, pipe, curb sidewalk or asphalt, a root barrier panel shall be added on the side of the root ball that is closest to item that is to be protected. Barriers shall shall be Deep Root UB-24-2 24"(w) x 24"(d) ribbed panels w/intermittent panel breaks as needed to allow groundwater to flow freely and not oversaturate rootball. Place root barrier panels in trench with vertical ribs facing toward rootball and align in a straight fashion. Keep top of root barrier's double-top edge at least 1/2" above finish grade.
18. Landscape Contractor shall provide watering of plants every other day after installation for 2 weeks. Thereafter, Owner is responsible to hire a Landscape Maintenance firm to maintain a healthy landscape.
19. Construct water saucers at each large shrub & tree location to assist in capturing rainwater toward root zone. Add Soil-Moist polymers at plant pits at a rate recommended by manufacturer.

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KMB Project # J2037C

LEWIS COUNTY SITE DEVELOPMENT
LEWIS COUNTY FACILITIES DEPARTMENT
351 NW NORTH STREET, CHEHALIS, WA 98532
Facilities Department

ORIGINAL SHEET SIZE = 24 x 36
HALF SIZE REDUCTIONS = 11 x 17

REVISIONS:
1 05/19/2023 Parking - Patio Revision

DATE:
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RAINIER BLOCK BID SET

SHEET NO.
L-100
COVER SHEET

CENTER STREET

NORTH STREET

CHEHALIS AVENUE

EX. BLDG.

EX. BLDG.

MATCHLINE - FAR WEST PARKING LOT

MATCHLINE - FAR WEST PARKING LOT

ECO-TURF LAWN, 3,238 s.f.

REMOVE 8" OF EX. SOIL & HAUL TO AN OFF-SITE DUMP LOCATION. SCARIFY SUBGRADE. ADD 8" TOPSOIL. GRADE AT MIN. 2% SLOPE

EX. ASPHALT TO REMAIN

NEW ASPHALT PAVEMENT

EX. CONCRETE TO REMAIN

DECORATIVE ROCK BED, 17 s.f.

BOULDER

SM, 19 s.f.

SM, 19 s.f.

SM, 22 s.f.

SM, 56 s.f.

SM, 37 s.f.

SM, 27 s.f.

BENCH

BENCH

LANDSCAPE SCHEDULE

SEE SHEET L-100 FOR GENERAL LANDSCAPE NOTES
SEE SHEET L-600 FOR COMPLETE LANDSCAPE SCHEDULE

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CONTACT: PAUL J. DIX

STATE OF WASHINGTON
REGISTERED LANDSCAPE ARCHITECT
PAUL J. DIX
CERTIFICATE NO. 620

SHEET TITLE

LANDSCAPE PLAN
SCALE: 1" = 10.0'

NORTH

10 6 2 10
8 4 0 20
GRAPHIC SCALE (IN FEET)

LEWIS COUNTY SITE DEVELOPMENT
LEWIS COUNTY FACILITIES DEPARTMENT

351 NW NORTH STREET, CHEHALIS, WA 98532
Facilities Department

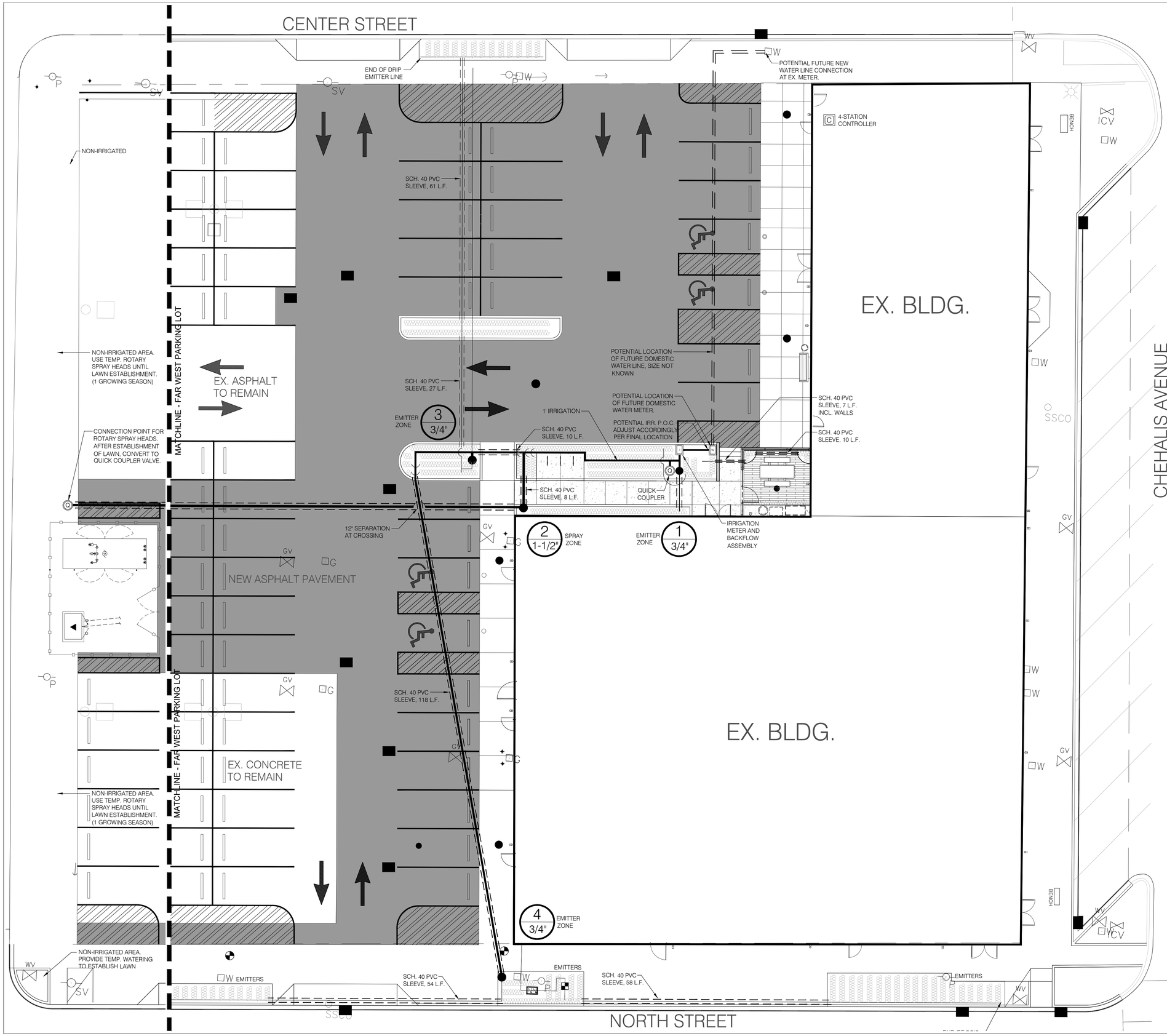
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REVISIONS:
△05/19/2023 Parking - Patio Revision

DATE: 03/10/2023

RAINIER BLOCK BID SET

SHEET NO.
L-200
LANDSCAPE PLAN - L-200



GENERAL IRRIGATION NOTES

1. GENERAL SYSTEM LAYOUT AND COMPONENTS ARE SHOWN AS PART OF A DESIGN-BUILD INSTALLATION. LANDSCAPE CONTRACTOR SHALL VERIFY AND ADJUST COMPONENT SCHEDULE AS REQUIRED FOR A FULL, COMPLETE SYSTEM.
2. SEE SHEET L-100 FOR GENERAL IRRIGATION NOTES

IRRIGATION SCHEDULE

MISC. ITEMS

SYMBOL	MANUFACTURER/ DESCRIPTION	MODEL	HOUSING	COMMENTS
M	3/4" WATER METER			VERIFY PSI / STATIC PRESSURE w/ CITY.
BF	1" BACKFLOW PREVENTOR			
MV	HUNTER 1" MASTER VALVE	IBV-101G-FS	VALVE BOX	WIRE DIRECTLY TO CONTROLLER
FS	HUNTER 1" FLOW SENSOR	HFS W/ FCT-100	VALVE BOX	WIRE DIRECTLY TO CONTROLLER
	LINE SIZE BALL VALVE		VALVE BOX	
	HUNTER - REMOTE CONTROL VALVE W/ ADJUSTABLE PRESSURE REGULATOR	ICV-XX-FS-AS-ADJ	VALVE BOX	SIZE PER PLAN
	HUNTER DRIP CONTROL ZONE KIT	ICZ-101-LF-25 (.5-15 GPM) ICZ-101-25 (16-20 GPM)	VALVE BOX	SIZE PER PLAN
	HUNTER - TWO WIRE 4-STATION IRRIGATION CONTROLLER	ACC-99D-PP W/ WSS-SEN, SOIL CLIK, AND ICD-HP	PLASTIC PEDESTAL	2-WIRE JACKET TO BE BLUE (ID1BLU)
	HUNTER 1 STATION DECODER	ICD-100	SEE DETAIL FOR STAKING	NOT APPLICABLE

ROTARY NOZZLES (FOR TEMPORARY LAWN ZONES)

SYMBOL	MANUFACTURER / DESCRIPTION	MODEL	RAD.	BODY	GPM 360°	180°	120°	90°	45°	PSI
○ ◒ ◔ ◔ ◔	HUNTER - POP-UP ROTARY SPRAY	MP800	6'-16'	PROS-12-PRS40-CV	3.64	1.82	1.39	.86		40

SPRAY NOZZLES

SYMBOL	MANUFACTURER / DESCRIPTION	MODEL	RAD.	BODY	GPM 360°	180°	120°	90°	45°	PSI
○ ◒ ◔ ◔ ◔	HUNTER - POP-UP SPRAY	6A ADJ.	6'	PROS-12-SI PROS-06-SI	1.26	.60	.44	.37	.18	30
○ ◒ ◔ ◔ ◔	HUNTER - POP-UP SPRAY	12A ADJ.	12'	PROS-12-PRS30-CV PROS-06-PRS30-CV	2.52	1.26	.84	.63	.32	30
LEFT ◫ CENTER ◫ RIGHT ◫	HUNTER - POP-UP STRIP SPRAY	LCS-515 (5' x 15') SS-530 (5' x 30') RCS-515 (5' x 15')	PROS-12-PRS30-CV PROS-06-PRS30-CV	LEFT .65 LCS-515	CENTER 1.30 SS-530	RIGHT .65 RCS-515			30

DRIP IRRIGATION TUBING (Below-Grade)

PIPE

SYMBOL	MANUFACTURER/ DESCRIPTION	MODEL	COMMENTS
	IRRIGATION MAIN LINE 1"	SCH 40 PVC	
	IRRIGATION LATERAL LINE SIZE VARIES - SEE PLAN	SCH 40 PVC	
	PIPE AND WIRE SLEEVING	SCH 40 PVC	DIAMETER TO BE TWICE THE SIZE OF THE PIPE BEING SLEEVED

PIPE SIZING MATRIX

PIPE SIZING		
A	3/4" SCH 40 PVC	(0-8 GPM)
B	1" SCH 40 PVC	(8-12 GPM)
C	1-1/4" SCH 40 PVC	(12-22 GPM)
D	1-1/2" SCH 40 PVC	(22-30 GPM)
E	2" SCH 40 PVC	(30-50 GPM)

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SHEET TITLE

IRRIGATION PLAN
SCALE: 1" = 10.0'

NORTH

10 6 2 0 10 20
8 4
GRAPHIC SCALE (IN FEET)

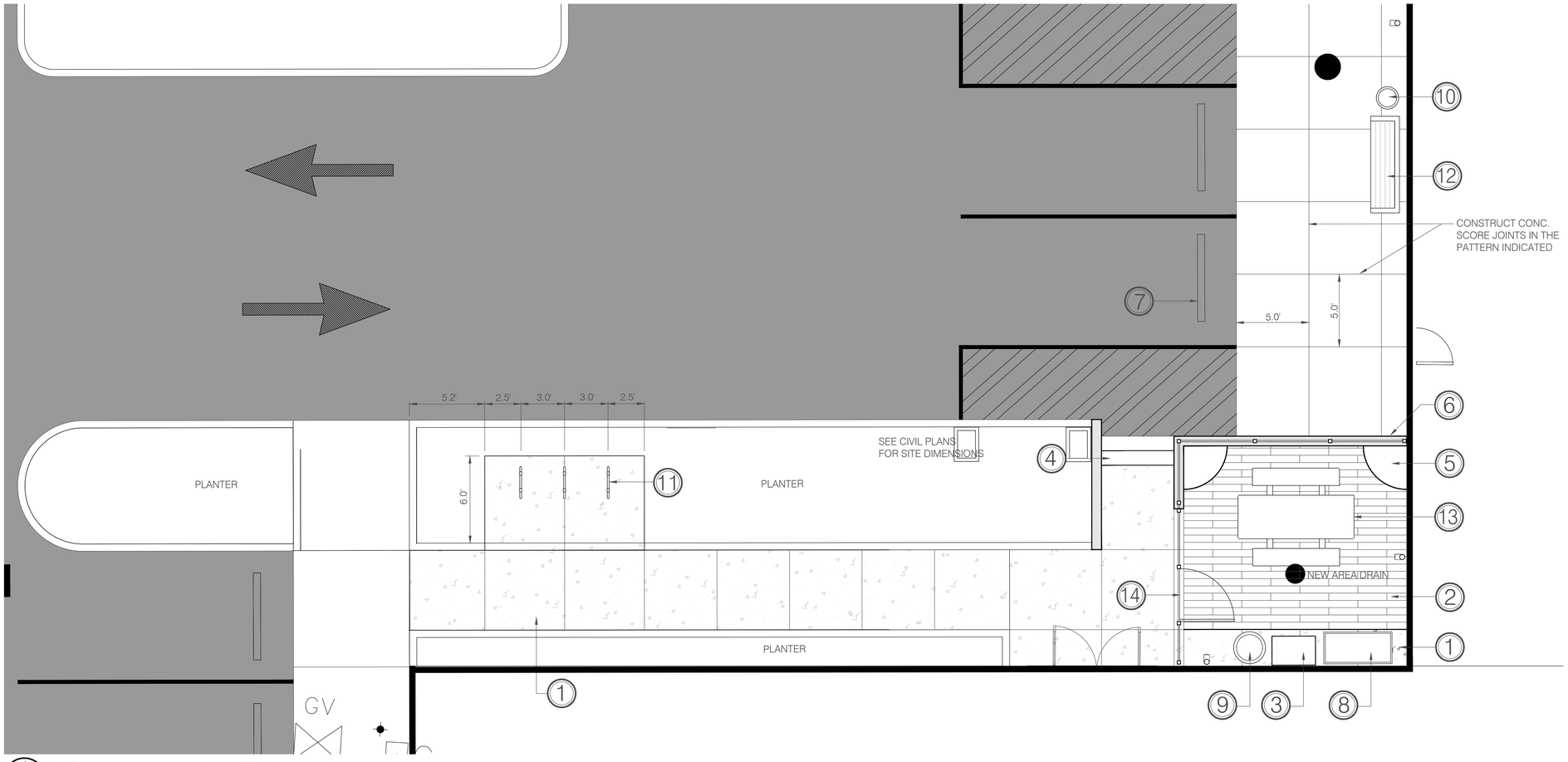
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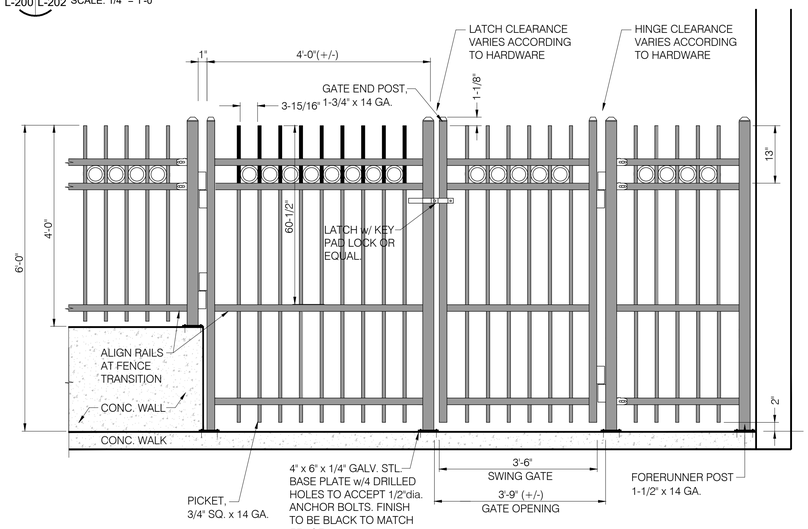
REVISIONS:
2 05/19/2023 Parking - Patio Revision

DATE: 03/10/2023
RAINIER BLOCK BID SET

SHEET NO. L-201
IRRIGATION PLAN - L-201



1 LARGE-SCALE PLAN - CENTRAL PLAZA
L-200 L-202 SCALE: 1/4" = 1'-0"



NOTES:
1. POSTS AT 4'-0" HIGH FENCE TO BE THE SAME AS 6'-0" FENCE TO MAINTAIN VISUAL CONTINUITY.
2. PROVIDE SHOP DRAWING FOR REVIEW & APPROVAL.
3. FENCE SHALL BE "CLASSIC PANEL MONTAGE II" BY AMERISTAR FENCING PRODUCTS.
4. A STRUCTURAL ENGINEERING REVIEW OF ANCHOR BOLT / PLATE CONNECTION OF FENCE POSTS MUST BE PERFORMED PRIOR TO INSTALLATION TO DETERMINE BOLT SIZE, DEPTH, ETC.
5. CONFIRM WITH OWNER THE PREFERRED LOCKING MECHANISM FOR SWING GATE.
6. ALL FENCING COMPONENTS AND INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
7. DO NOT SCALE DRAWING.

2 ORNAMENTAL IRON FENCE
L-200 L-202 SCALE: NONE

AMERISTAR FENCE PRODUCTS
Montage II® - Heavy Industrial Steel Ornamental Fence System – Fusion Welded and Rackable
CONSTRUCTION SPECIFICATION - SECTION 32 31 00

PART 1 - GENERAL
1.01 WORK INCLUDED
The contractor shall provide all labor, materials and appurtenances necessary for installation of the welded ornamental steel fence system defined herein at The Rainier Block / Chehalis Downtown Site Improvements..

1.02 RELATED WORK
Section - Earthwork
Section - Concrete

1.03 SYSTEM DESCRIPTION
The manufacturer shall supply a total fence system of Montage II® ***Welded and Rackable*** (ATF – All Terrain Flexibility) Ornamental Steel (Classic) design. The system shall include all components (i.e., panels, posts, gates and hardware) required.

1.04 QUALITY ASSURANCE
The contractor shall provide laborers and supervisors who are thoroughly familiar with the type of construction involved and materials and techniques specified.

1.05 REFERENCES
- ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvannealed) by the Hot-Dip Process.
- ASTM B117 - Practice for Operating Salt-Spray (Fog) Apparatus.
- ASTM D523 - Test Method for Specular Gloss.
- ASTM D714 - Test Method for Evaluating Degree of Blistering in Paint.
- ASTM D822 - Practice for Conducting Tests on Paint and Related Coatings and Materials using Filtered Open-Flame Carbon-Arc Light and Water Exposure Apparatus.
- ASTM D1654 - Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments.
- ASTM D2244 - Test Method for Calculation of Color Differences from Instrumentally Measured Color Coordinates.
- ASTM D2794 - Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact).
- ASTM D3359 - Test Method for Measuring Adhesion by Tape Test.
- ASTM F2408 – Ornamental Fences Employing Galvanized Steel Tubular Pickets.

1.06 SUBMITTAL
The manufacturer's literature shall be submitted prior to installation.

1.07 PRODUCT HANDLING AND STORAGE
Upon receipt at the job site, all materials shall be checked to ensure that no damage occurred during shipping or handling. Materials shall be stored in such a manner to ensure proper ventilation and drainage, and to protect against damage, weather, vandalism and theft.

PART 2 - MATERIALS
2.01 MANUFACTURER
The fence system shall conform to Montage II® ***Welded and Rackable*** (ATF – All Terrain Flexibility) Ornamental Steel, (Classic) design, (extended picket) bottom rail treatment, (3-Rail and 4-Rail) style manufactured by Ameristar Fence Products, Inc., in Tulsa, Oklahoma.

2.02 MATERIAL
A. Steel material for fence panels and posts shall conform to the requirements of ASTM A653/A653M, with a minimum yield strength of 45,000 psi (310 MPa) and a minimum zinc (hot-dip galvanized) coating weight of 0.90 oz/ft2 (276 g/m2), Coating Designation G-90.

B. Material for pickets shall be 1" square x 14 Ga. tubing. The rails shall be steel channel, 1.75" x 1. 75" x .105". Picket holes in the rail shall be spaced 4.715" o.c. Fence posts and gate posts shall meet the minimum size requirements of Table 1.

2.03 FABRICATION
A. Pickets, rails and posts shall be pre-cut to specified lengths. Rails shall be pre-punched to accept pickets.

B. Pickets shall be inserted into the pre-punched holes in the rails and shall be aligned to standard spacing using a specially calibrated alignment fixture. The aligned pickets and rails shall be joined at each picket-to-rail intersection by Ameristar's proprietary fusion welding process, thus completing the rigid panel assembly.

C. The manufactured panels and posts shall be subjected to an inline electrodeposition coating (E-Coat) process consisting of a multi-stage pretreatment/wash (with zinc phosphate), followed by a duplex application of an epoxy primer and an acrylic topcoat. The minimum cumulative coating thickness of epoxy and acrylic shall be 2 mils (0.058 mm). The color shall be (specify Black or Bronze). The coated panels and posts shall be capable of meeting the performance requirements for each quality characteristic shown in Table 2 (Note: The requirements in Table 2 meet or exceed the coating performance criteria of ASTM F2408).

D. The manufactured fence system shall be capable of meeting the vertical load, horizontal load, and infill performance requirements for Industrial weight fences under ASTM F2408.

E. Swing gates shall be fabricated using 1.75" x 14ga Forerunner double channel rail, 2" sq. x 11ga. gate ends, and 1" sq. x 14ga. pickets. Gates that exceed 6' in width will have a 1.75" sq. x 14ga. intermediate upright. All rail and upright intersections shall be joined by welding. All picket and rail intersections shall also be joined by welding. Gusset plates will be welded at each upright to rail intersection. Cable kits will be provided for additional trussing for all gates leaves over 6'.

PART 3 - EXECUTION
3.01 PREPARATION
All new installation shall be laid out by the contractor in accordance with the construction plans.

3.02 FENCE INSTALLATION
Fence post shall be spaced according to Table 3, plus or minus ½". For installations that must be raked to follow sloping grades, the post spacing dimension must be measured along the grade. Fence panels shall be attached to posts with brackets supplied by the manufacturer. Posts shall be anchor-bolted to concrete site wall and concrete walk with 4" x 6" galvanized steel plate setting.

3.03 FENCE INSTALLATION MAINTENANCE
When cutting/drilling rails or posts adhere to the following steps to seal the exposed steel surfaces; 1) Remove all metal shavings from cut area. 2) Apply zinc-rich primer to thoroughly cover cut edge and/or drilled hole; let dry. 3) Apply 2 coats of custom finish paint matching fence color. Failure to seal exposed surfaces per steps 1-3 above will negate warranty. Ameristar spray cans or paint pens shall be used to prime and finish exposed surfaces; it is recommended that paint pens be used to prevent overspray. Use of non-Ameristar parts or components will negate the manufactures' warranty.

3.04 GATE INSTALLATION
Gate posts shall be spaced according to the manufacturers' gate drawings, dependent on standard out-to-out gate leaf dimensions and gate hardware selected. Type and quantity of gate hinges shall be based on the application; weight, height, and number of gate cycles. The manufacturers' gate drawings shall identify the necessary gate hardware required for the application. Gate hardware shall be provided by the manufacturer of the gate and shall be installed per manufacturer's recommendations.

3.05 CLEANING
The contractor shall clean the jobsite of excess materials; post-hole excavations shall be scattered uniformly away from posts.

PLAN NOTES

1. CONC. SIDEWALK w/ LIGHT BROOM FINISH SEE CIVIL PLANS FOR CONC. SECTION.
2. LITHOTEX PAVECRAFTER 6" WOOD PLANK PATTERN. 18" x 72" PATTERN S7370 PER SCOFIELD / SIKA, INC. OR APPROVED EQUAL. COLOR: INTEGRAL COLOR SG-677-4 "ROAST CHESTNUT" w/ EXTERIOR INTEGRAL COLOR SEALANT. SUBMIT PRODUCT DATA AND PROPOSED SUBSTITUTION IF APPLICABLE.
3. BARBEQUE TABLE TO BE PROVIDED / INSTALLED BY OWNER.
4. CONC. STAIRS PER CIVIL PLANS.
5. QUARTER-CIRCLE PLANTER w/ RADIUS OF 3'-0". ADD PLANTING TOPSOIL AT THESE TWO PLANTERS TO A DEPTH OF 12".
6. CONC. RETAINING WALL PER STRUCTURAL ENGINEER PLANS. w/ ORNAMENTAL IRON FENCE CENTERED AT TOP OF WALL. SEE DETAIL NO. 2 / SHEET L202 FOR FENCE DETAIL.
7. CONC. WHEEL STOP PER CIVIL PLANS.
8. BARBEQUE UNIT TO BE PROVIDED / INSTALLED BY OWNER.
9. TRASH RECEPTACLE SEE DETAIL NO. 4, SHEET L-600
10. ASH SNUFFER / RECEPTACLE, SEE DETAIL NO. 3, SHEET L-600. NOTE: REQUIRED 25'-0" DISTANCE FROM BUILDING DOORS IS
11. 3-LOOP BIKE RACK SET INTO CONC. AS SHOWN. SEE DETAIL NO. 1, SHEET L-600
12. 6'-0" LONG BENCH SEE DETAIL NO. 2, SHEET L-600
13. 8'-0" LONG RECTANGULAR OUTDOOR DINING TABLE. SEE DETAIL NO. 5, L-600 TO MATCH SITE FURNISHING STYLE. THE OWNER HAS OPTION TO SUBSTITUTE WITH ANOTHER TABLE TYPE AS AN OWNER PROVIDED / OWNER INSTALLED TABLE. ASSURE PEDESTRIAN CLEARANCES ARE MET IN ADDITION TO A.D.A ACCESSIBILITY.

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SHEET TITLE

LARGE-SCALE PLAN / DETAILS
SCALE: 1" = 10.0'

NORTH

10 8 6 4 2 0 10 20
GRAPHIC SCALE (IN FEET)

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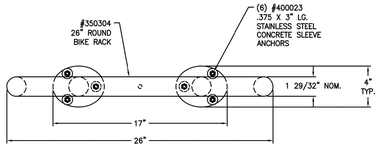
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RAINIER BLOCK BID SET

SHEET NO.
L-202
LARGE-SCALE PLANS - L-202



NOTES:

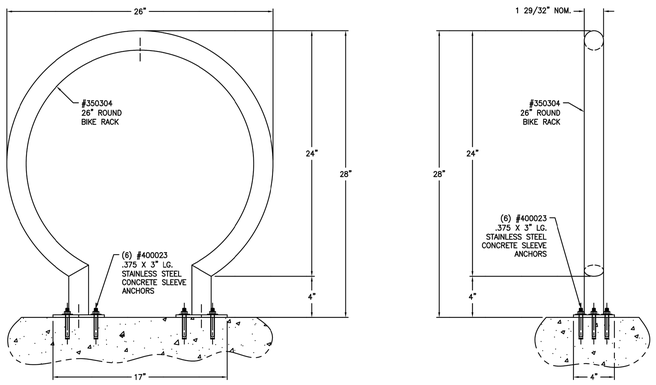
MANUFACTURER:	WAUSAU TILE, INC. www.WAUSAUTILE.com
MODEL NO:	MF-9022
HEIGHT:	28"
DIAMETER:	26"
COLOR:	S48 - "COBALT BLUE"
FINISH:	POWDERCOAT
ANCHORING:	PROVIDE ANCHOR KIT 7212

NOTES:

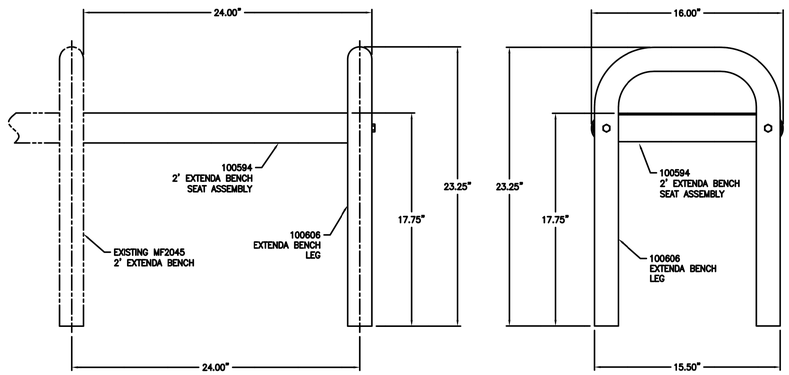
MANUFACTURER:	WAUSAU TILE, INC. www.WAUSAUTILE.com
MODEL NO:	MF-2045 AND MF-2046 - EXTENDA BENCH
HEIGHT:	24"
LENGTH:	24" (16" DEEP) PROVIDE FOR 4-SEAT CAPACITY
COLOR:	S72 - "SILVER" (LEGS), S48 - "COBALT BLUE" (BENCH)
FINISH:	POWDERCOAT
ANCHORING:	PROVIDE OPTIONAL ANCHORING KIT

NOTES:

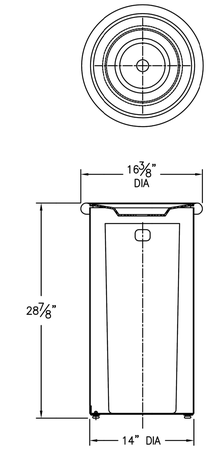
MANUFACTURER:	WAUSAU TILE, INC.
MODEL NO:	MF-4001
HEIGHT:	28 - 7/8"
DIAMETER:	16-3/8"
COLOR:	S48 - "COBALT BLUE" CONTAINER, 8 - "BLACK" TOP
FINISH:	POWDERCOAT



1 L-200 L-600 BIKE RACK
SCALE: NOT TO SCALE



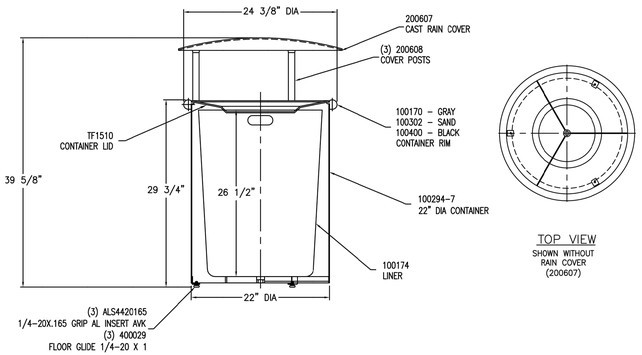
2 L-200 L-600 6'-0' BENCH
SCALE: NOT TO SCALE



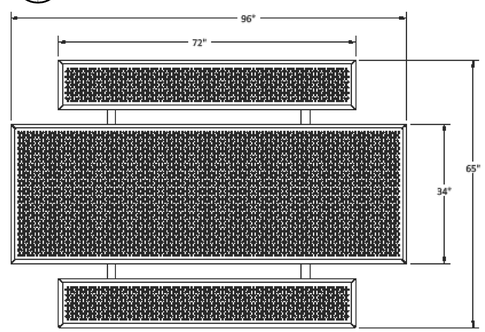
3 L-200 L-600 ASH SNUFFER
SCALE: NOT TO SCALE

NOTES:

MANUFACTURER:	WAUSAU TILE, INC. www.WAUSAUTILE.com
MODEL NO:	MF-3002
HEIGHT:	39 - 5/8"
DIAMETER:	22" w/ 24-3/8" TOP RAIN HOOD
COLOR:	S48 - "COBALT BLUE" CONTAINER, 8 - "BLACK" TOP
FINISH:	POWDERCOAT
ANCHORING:	PROVIDE SINGLE-POINT ANCHOR



4 L-200 L-600 TRASH RECEPTABLE
SCALE: NOT TO SCALE

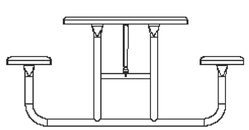


NOTE: OWNER MAY SELECT SIMILAR SIZED TABLE

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	600026	TABLE LEG ASSEMBLY	2
2	600067	ASSY 8-FT PERF TABLE TOP	1
3	600063	TABLE LEG BRACE	2
4	600062	72 X 12 PERF SEAT	2

NOTES:

MANUFACTURER:	WAUSAU TILE, INC. www.WAUSAUTILE.com
MODEL NO:	MF-1059
SIZE:	30" x 64" x 96"
COLOR:	SEATS: S48 - "COBALT BLUE", LEGS: 8 BLACK
FINISH:	POWDERCOAT
ANCHORING:	PROVIDE ANCHOR KIT (#7210)



5 L-200 L-600 8'-0" A.D.A. PICNIC TABLE (OWNER PURCHASED, OWNER INSTALLED)
SCALE: NOT TO SCALE

LANDSCAPE SCHEDULE

TREES

GRAPHIC	ABBR.	BOTANICAL NAME	COMMON NAME	SIZE	QTY.	SPACING	DROUGHT	COMMENTS
	MA	MAACKIA AMUR	AMUR MAACKIA	2.00" cal	3	N/A	GOOD	6.0' CLEAR, SINGLE TRUNK FORM
	NS	NYSSA SYLVATICA 'WILDFIRE'	WILDFIRE SOURGUM	2.00" cal.	2	N/A	GOOD	6.0 CLEAR, MUST USE CULTIVAR.
	PS	PRUNUS SARGENTII 'COLUMNARIS'	COLUMNAR SARGENT'S CHERRY	1.75" cal	4	N/A	AVERAGE	MATCH SIZE & FORM IN ROW

SHRUBS

GRAPHIC	ABBR.	BOTANICAL NAME	COMMON NAME	SIZE	QTY.	SPACING	DROUGHT	COMMENTS
	BT	BERBERIS THUNBERGIANA 'CONCORDE'	CONCORDE BARBERRY	2 gal.	11	AS SHOWN	EXCELLENT	SELECT GOOD COLOR
	CC	COTINUS COGGYGRIA 'LILLA'	LILLA SMOKE BUSH	5 gal.	10	AS SHOWN	EXCELLENT	MUST USE DWARF CULTIVAR
	EA	EUONYMUS ALATA 'COMPACTA'	DWARF BURNING BUSH	5 gal.	13	AS SHOWN	GOOD	MATCH FORM IN ROW
	HM	HEUCHERA 'LIME MARMALADE'	LIME MARMALADE 'CORAL BELLS'	1 gal.	12	AS SHOWN	AVERAGE	
	IC	ILEX CRENATA 'SKY PENCIL'	SKY PENCIL HOLLY	36"(h)	5	2'-3" o.c.	AVERAGE	MATCH FORM IN ROW
	LA	LAVANDULA ANGUSTIFOLIO 'MUNSTEAD'	MUNSTEAD ENGLISH LAVENDER	1 gal.	23	AS SHOWN	EXCELLENT	FULL, WELL-SHAPED
	ND	NANDINA DOMESITCA 'GULFSTREAM'	GULFSTREAM HEAVENLY BAMBOO	5 gal.	3	AS SHOWN	AVERAGE	FULL, WELL-SHAPED
	PG	PICEA GLAUCA 'CONICA'	DWARF ALBERTA SPRUCE	36"(h)	2	AS SHOWN	AVERAGE	MATCH SHAPE
	PL	PRUNUS LAURACERACUS 'OTTO LUYKEN'	OTTO LUYKEN LAUREL	3 gal.	2	AS SHOWN	GOOD	FULL, WELL-SHAPED
	PM	PINUS MUGO 'SHERWOOD COMPACT'	DWARF MUGO PINE	18"(w)	16	N/A	EXCELLENT	ONLY USE DWARF CULTIVARS
	SH	SARCOCOCCA HOOKERI 'HUMILIS'	SWEETBOX	5 gal.	3	AS SHOWN	AVERAGE	FULL, WELL-SHAPED
	SJ	SPIRAEA JAPONICA 'MAGIC CARPET'	MAGIC CARPET SPIRAEA	3 gal.	26	AS SHOWN	AVERAGE	MAY SUB. w/ 'LEMON PRINCESS'
	TC	TAXUS CUSPIDATA 'NANA'	DWARF YEW	2 gal.	15	18" o.c.	AVERAGE	FULL, WELL-SHAPED

GROUNDCOVER

GRAPHIC	ABBR.	BOTANICAL NAME	COMMON NAME	SIZE	QTY.	SPACING	DROUGHT	COMMENTS
	AR	AJUGA REPTANS 'PINK LIGHTINING'	PINK LIGHTNING BUGLEWEED	1 gal.	25 s.f.	24" o.c.	GOOD	TRIANGULAR SPACING
	SM	SEDUM MAKINOI 'OGON'	OGON STONECROP	1 gal.	199 s.f.	18" o.c.	EXCELLENT	TRIANGULAR SPACING

ORNAMENTAL GRASSES, VINES, ETC.

GRAPHIC	ABBR.	BOTANICAL NAME	COMMON NAME	SIZE	QTY.	SPACING	DROUGHT	COMMENTS
	CA	CALAMAGROSTIS ACUTI. 'KARL FOERSTER'	K. FOERSTER FEATHER REED GRASS	1 gal.	37	AS SHOWN	EXCELLENT	FULL TUFT
	HA	HAKONECHLORA MACRA 'ALL GOLD'	ALL GOLD JAPANESE FOREST GRASS	1 gal.	2	AS SHOWN	GOOD	FULL TUFT
	LM	LIRIOPE MUSCARI 'SILVERY SUNPROOF'	SILVERY SUNPROOF LILYTURF	1 gal.	8	AS SHOWN	GOOD	FULL TUFT
	RF	RUDBECKIA FUGILDA 'GOLDSTRUM'	GOLDSTRUM BLACK-EYED SUSAN	1 gal.	14	AS SHOWN	EXCELLENT	FULL-BODIED

NOTES:

a) THE PREFERRED PLANT PURVEYOR IS PUGET SOUND PLANTS, (360) 943-0480, JOE@PSPLANTS.com
b) ENCOURAGE PLANT PURCHASES EARLY TO AVOID UNAVAILABILITY OF PLANTS IN QUANTITY OR SIZE.
c) SUBMIT PROPOSED SUBSTITUTIONS IN WRITING FOR REVIEW AND APPROVAL.
d) IF 1 GALLON GROUNDCOVER PLANTS ARE NOT AVAILABLE, USE 4" CONTAINERS AT 12" o.c.
e) SUBMIT RECEIPTS OF PURCHASE, IN PARTICULAR THE DWARF MUGO PINE.

DESIGN CONSULTANT

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Paul J. Dix
STATE OF WASHINGTON
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KMB Project # J2037C

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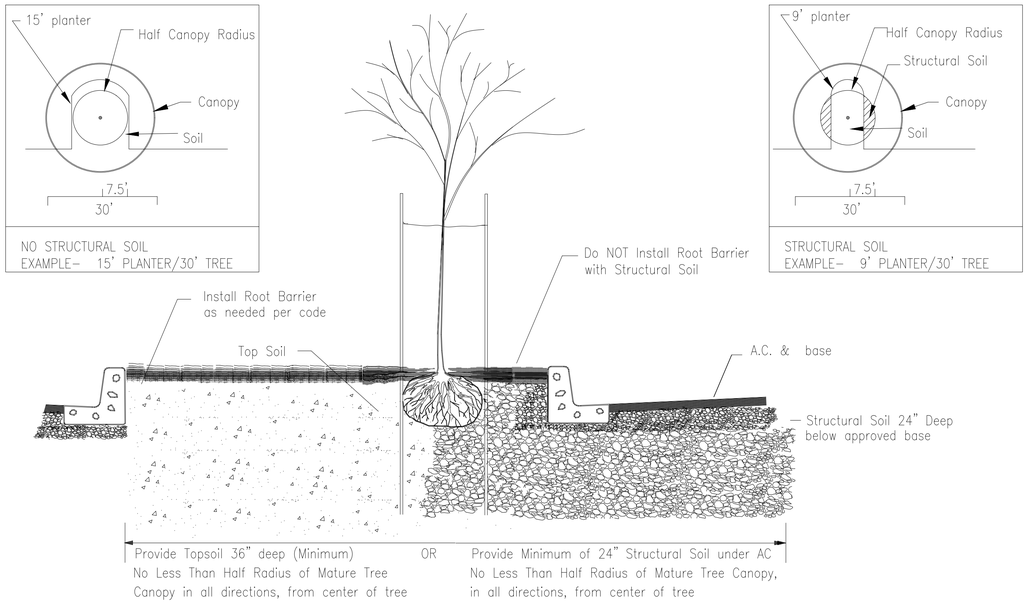
ORIGINAL SHEET SIZE = 24 x 36
HALF SIZE REDUCTIONS = 11 x 17

REVISIONS:
⚠ 05/19/2023 Parking - Patio Revision

DATE:
03/10/2023

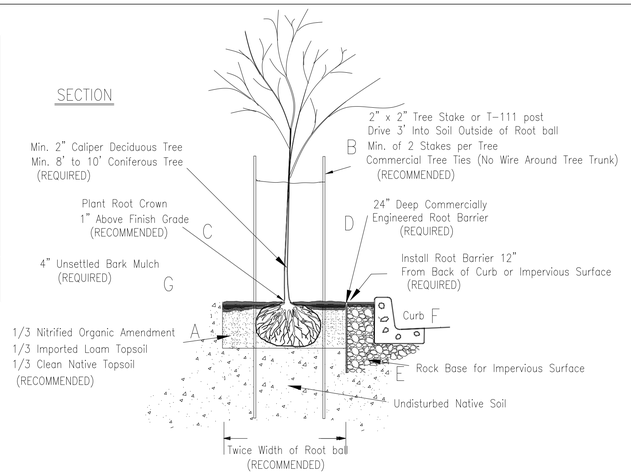
RAINIER BLOCK BID SET

SHEET NO.
L-600
SITE DETAILS - L-600

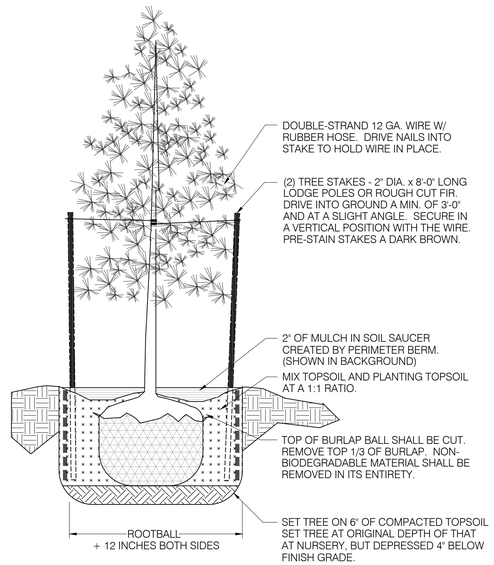


PROVIDE TREES WITH ADEQUATE TOPSOIL TO THRIVE.
PLANTER WIDTH MUST BE A MINIMUM OF 1/4 DIAMETER OF MATURE TREE CANOPY, IN ALL DIRECTIONS, FROM CENTER OF TREE; OR
STRUCTURAL SOILS MAY BE INSTALLED UNDER PAVING TO MEET THIS REQUIREMENT
STRUCTURAL SOIL SPECIFICATIONS PER CORNELL UNIVERSITY OR EQUAL

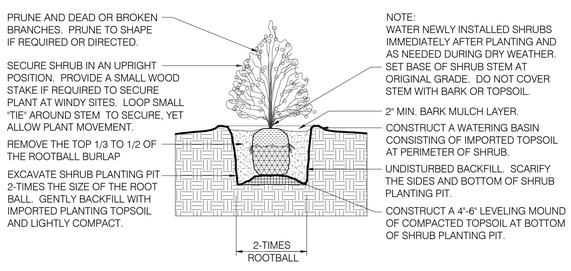
1 PARKING LOT TREE INSTALLATION
L-200 L-601 NO SCALE



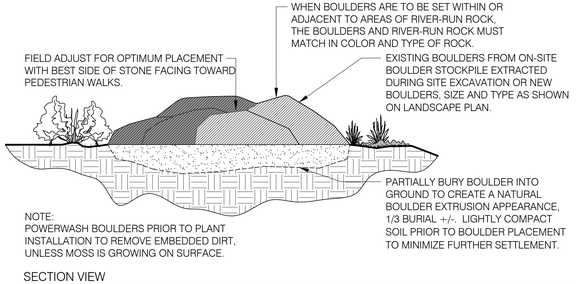
2 DECIDUOUS TREE INSTALLATION
L-200 L-601 NO SCALE



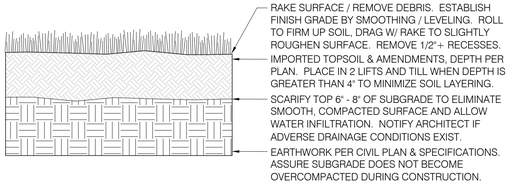
3 CONIFEROUS TREE INSTALLATION
L-200 L-601 NO SCALE



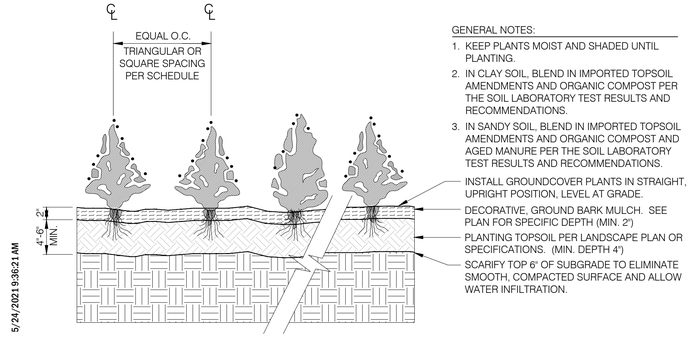
4 SHRUB INSTALLATION
L-200 L-601 NO SCALE



5 BOULDER / DECORATIVE ROCK INSTALLATION
L-200 L-601 NO SCALE



6 LAWN SECTION
L-200 L-601 NO SCALE



GENERAL NOTES:

1. KEEP PLANTS MOIST AND SHADED UNTIL PLANTING.
2. IN CLAY SOIL, BLEND IN IMPORTED TOPSOIL AMENDMENTS AND ORGANIC COMPOST PER THE SOIL LABORATORY TEST RESULTS AND RECOMMENDATIONS.
3. IN SANDY SOIL, BLEND IN IMPORTED TOPSOIL AMENDMENTS AND ORGANIC COMPOST AND AGED MANURE PER THE SOIL LABORATORY TEST RESULTS AND RECOMMENDATIONS.

INSTALL GROUNDCOVER PLANTS IN STRAIGHT, UPRIGHT POSITION, LEVEL AT GRADE.
DECORATIVE, GROUND BARK MULCH. SEE PLAN FOR SPECIFIC DEPTH (MIN. 2")
PLANTING TOPSOIL PER LANDSCAPE PLAN OR SPECIFICATIONS. (MIN. DEPTH 4")
SCARIFY TOP 6" OF SUBGRADE TO ELIMINATE SMOOTH, COMPACTED SURFACE AND ALLOW WATER INFILTRATION.

7 GROUNDCOVER INSTALLATION
L-200 L-601 NO SCALE

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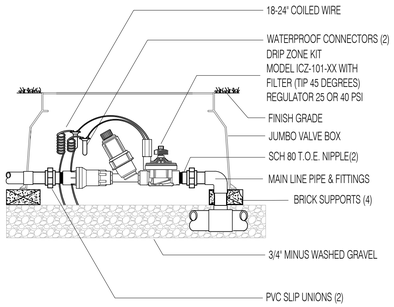
SHEET TITLE

LANDSCAPE DETAILS

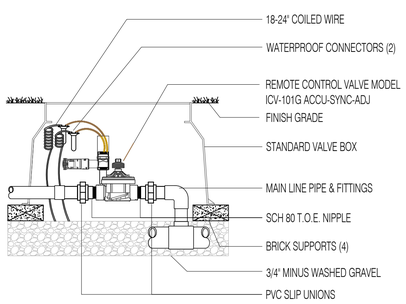
NORTH

DATE:
03/10/2023
RAINIER BLOCK BID SET

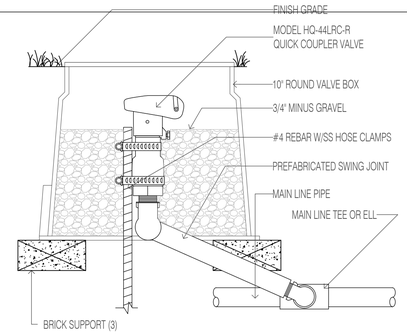
SHEET NO.
L-601
LANDSCAPE DETAILS - L-500



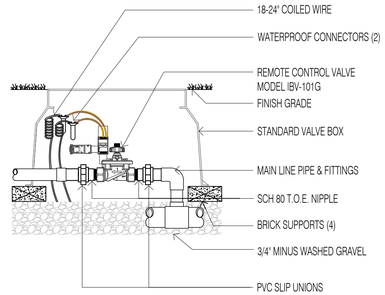
1 L-202 L-602 DRIP CONTROL ZONE VALVE — IRRIGATION DETAIL
SCALE: NOT TO SCALE



2 L-202 L-602 SPRAY CONTROL ZONE VALVE — IRRIGATION DETAIL
SCALE: NOT TO SCALE



3 L-202 L-602 QUICK COUPLER VALVE — IRRIGATION DETAIL
SCALE: NOT TO SCALE



4 L-202 L-602 MASTER BALL VALVE — IRRIGATION DETAIL
SCALE: NOT TO SCALE

NOTES:

A. NOT USED.

B. DO NOT INSTALL AT LOW POINTS OF A PROJECT SITE WHERE WATER MAY ACCUMULATE OR IN AN AREA SUBJECT TO FLOODING.

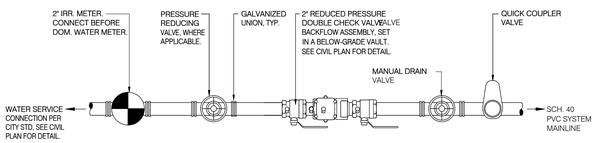
C. THOROUGHLY FLUSH SERVICE LINE PRIOR TO INSTALLATION OF ASSEMBLY.

D. THE BACKFLOW ASSEMBLY MUST BE INSTALLED AS A SINGLE UNIT.

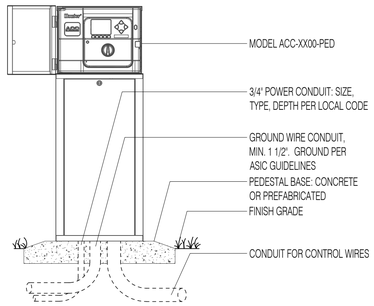
E. THE ASSEMBLY SHALL BE TESTED AFTER INITIAL INSTALLATION, ANNUALY, AFTER REPAIRS OR AFTER RELOCATION OR REINSTALLATION. CONTACT THE LOCAL WATER DISTRICT FOR INSPECTION OF ALL NEWLY INSTALLED ASSEMBLIES.

F. ASSEMBLY SHALL BE STATE APPROVED W/ O, S & Y R.W. GATE VALVE.

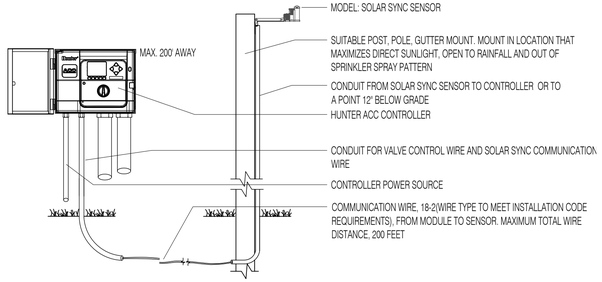
G. IN ADDITION TO STATE APPROVAL, ALL LOCAL MUNICIPAL AND/OR COUNTY CODES SHALL BE MET, INCLUDING WATER DISTRICT STANDARDS.



5 L-202 L-602 REDUCED PRESSURE BACKLOW ASSEMBLY
SCALE: NOT TO SCALE

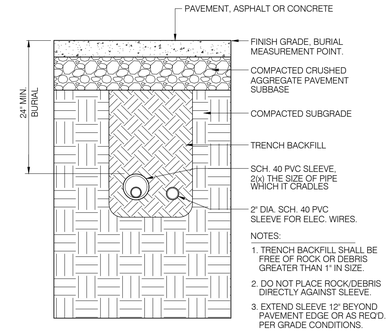


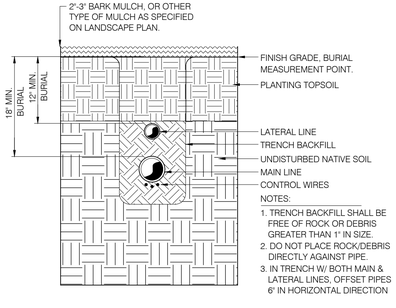
6 L-202 L-602 IRRIGATION CONTROLLER — IRRIGATION DETAIL
SCALE: NOT TO SCALE



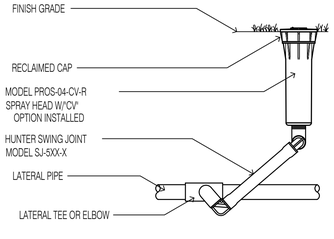
7 L-202 L-602 SOLAR SYNC — IRRIGATION DETAIL
SCALE: NOT TO SCALE

8 L-202 L-602 (NOT USED)
SCALE: NOT TO SCALE

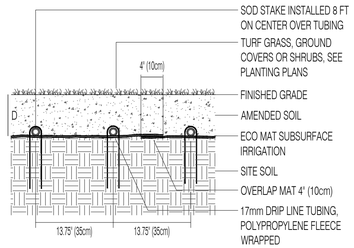




10 L-202 L-602 TRENCH SECTIONS
SCALE: NOT TO SCALE



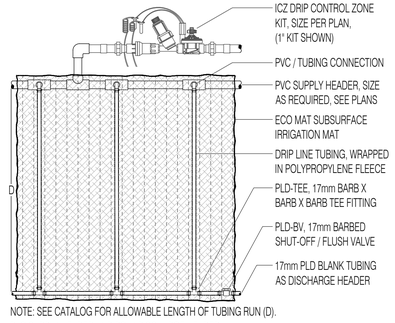
9 L-202 L-602 POP-UP SPRAY — IRRIGATION DETAIL
SCALE: NOT TO SCALE



RECOMMENDED ECO MAT INSTALLATION DEPTH (D):

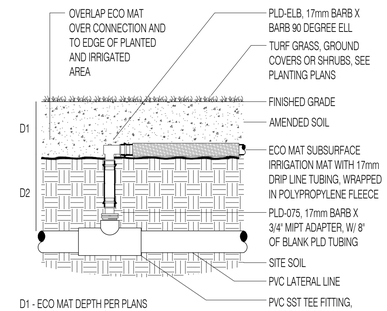
TURF AREAS:	4" - 8"	(10cm - 20cm)
GROUND COVER AREAS:	8"	(20cm)
SHRUB AREAS:	12"	(30CM)

SECTION



NOTE: SEE CATALOG FOR ALLOWABLE LENGTH OF TUBING RUN (D).
PVC SUPPLY HEADER AND POLY DISCHARGE HEADER.

PLAN



D1 - ECO MAT DEPTH PER PLANS
D2 - 12" OR PER PLANS

CONNECTION

11 L-202 L-602 ECO-MAT — IRRIGATION DETAIL
SCALE: NOT TO SCALE

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CERTIFICATE NO. 620

SHEET TITLE

IRRIGATION DETAILS
SCALE: 1" = 10.0'

NORTH

10 6 2 10
8 4 0 20
GRAPHIC SCALE (IN FEET)

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RAINIER BLOCK BID SET

SHEET NO.
L-602
IRRIGATION DETAILS - L-602

GENERAL

- EXISTING ELECTRICAL TO BE REMOVED
- EXISTING ELECTRICAL TO REMAIN
- NEW ELECTRICAL WORK
- MATCHLINE OR PROPERTY LINE
- ENLARGED PLAN BOUNDARY
- 1 / E1.1 — DETAIL/PLAN IDENTIFIER
- A / E1.1 — SECTION IDENTIFIER
- A / E1.1 — ELEVATION IDENTIFIER
- REVISION DEFINITION AREA, AREA ENCIRCLED CONTAINS CHANGES MADE SUBSEQUENT TO PREVIOUS ISSUE
- 1 — REVISION CALLOUT
- 1 — FLAG NOTE TAG
- 1 — DEMOLITION NOTE TAG
- 1 — EQUIPMENT TAG
- AHU-01 — MECHANICAL EQUIPMENT TAG
- N — NORTH ARROW
- 1 — LOCATION WHERE PICTURE WAS TAKEN AND DIRECTION

LIGHTING

- A / 12 / a — DEVICE SUBSCRIPTS (LIGHT FIXTURE TYPE) (SWITCHLEG) (CIRCUIT NUMBER)
- LIGHTING FIXTURES (REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION)
- STRIP LIGHTING FIXTURE
- WALL-MOUNTED LIGHTING FIXTURE
- EMERGENCY LIGHTING FIXTURES (REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION)
- POLE-MOUNTED LIGHTING FIXTURE, QUANTITY OF HEADS AS INDICATED
- DOUBLE HEAD, POLE-MOUNTED, LIGHTING FIXTURE
- LIGHTING TRACK WITH FIXTURES
- SELF-CONTAINED BATTERY-POWERED EMERGENCY LIGHTING FIXTURE
- EXIT SIGN, UNIVERSAL MOUNTING (SHADED AREA INDICATES DIRECTION ARROWS)
- EXIT SIGN, WALL-MOUNTED (SHADED AREA INDICATES DIRECTION ARROWS)

POWER

- SWITCHBOARD/SWITCHGEAR
- PANELBOARD, FLUSH-MOUNTED
- PANELBOARD, SURFACE-MOUNTED
- T — (FRONT) TRANSFORMER
- MOTOR CONNECTION
- DISCONNECT SWITCH, NON-FUSED
- DISCONNECT SWITCH, FUSED
- ENCLOSED CIRCUIT BREAKER
- VFD — VARIABLE FREQUENCY DRIVE
- S M — MANUAL MOTOR STARTER WITH THERMAL OVERLOADS
- COMBINATION STARTER/DISCONNECT
- MAGNETIC STARTER
- EQUIPMENT CONNECTION - CONFIRM CONNECTION WITH EQUIPMENT MANUFACTURER
- F/S — FIRE/SMOKE DAMPER
- PUSHBUTTON CONTROLLER (SINGLE OR MULTIPLE BUTTONS)
- EMERGENCY POWER OFF PUSHBUTTON

RECEPTACLES

- P1A-12 / +42" / GF — DEVICE SUBSCRIPTS (CIRCUIT NUMBER) (AC,CR,D,EM,GB,GF,IG,SB,TP,USB,WP OR OTHER SUBSCRIPT) (NON-STANDARD MOUNTING HEIGHT OR AC)
- SPECIAL RECEPTACLE
- DUPLEX RECEPTACLE
- FOURPLEX RECEPTACLE
- SPLIT WIRED DUPLEX RECEPTACLE
- SIMPLEX RECEPTACLE
- CORD DROP CORD RECEPTACLE
- RETRACTABLE CORD REEL RECEPTACLE

LIGHTING CONTROL

- S — SWITCH, AS DEFINED BY SUBSCRIPT
  - # = SWITCH LOCATED WITHIN THE SPACE IT IS CONTROLLING
  - a = SWITCH LOCATED REMOTE FROM THE SPACE IT IS CONTROLLING
  - MW = LINE VOLTAGE THREE-WAY OR FOUR-WAY
  - OSD = OCCUPANCY SENSOR OR VACANCY SENSOR WITH DIMMER
  - OS = OCCUPANCY SENSOR OR VACANCY SENSOR
  - K = KEYED; LH = LIGHTED HANDLE
  - P = PILOT LIGHT; T = TIMER

  SEE SWITCH SCHEDULE FOR ADDITIONAL INFORMATION

  REFER TO LIGHTING ZONE CONTROL PLAN FOR OCCUPANCY SENSOR OR VACANCY SENSOR REQUIREMENTS.
- OCCUPANCY/VACANCY SENSOR, CEILING-MOUNTED WHERE INDICATED, SUBSCRIPT INDICATES TYPE
- OCCUPANCY/VACANCY SENSOR, WALL-MOUNTED
- P — PHOTOSENSOR
- X / # - # — LIGHTING CONTROL TAG
- 10 FC — LIGHT LEVEL SET POINT TAG
- LCP — LIGHTING CONTROL PANEL
- RC — ROOM CONTROLLER

ONE-LINE DIAGRAM

- EQUIPMENT ENCLOSURE
- BUS
- WIRE
- TERMINAL / LUG
- CONNECTION
- DELTA
- WYE
- CURRENT TRANSFORMER
- TRANSFER SWITCH
- CIRCUIT BREAKER, FIXED
- CIRCUIT BREAKER, DRAWOUT
- DISCONNECT SWITCH
- FUSED SWITCH
- FUSE
- FUSED CUTOUTS
- GF — CIRCUIT BREAKER WITH GROUND FAULT PROTECTION
- ST — CIRCUIT BREAKER WITH SHUNT TRIP OPERATOR
- K — CIRCUIT BREAKER WITH KIRK KEY
- GF — FUSED SWITCH WITH GROUND FAULT PROTECTION
- MOTOR CONNECTION
- G — GENERATOR
- X — METERING DEVICE (M = METER) (WH = WATT HOUR METER) (A = AMMETER) (V = VOLTMETER)
- ST — SHUNT TRIP
- GF — GROUND FAULT PROTECTION
- EPM — ELECTRONIC POWER METER
- SPD — SURGE PROTECTIVE DEVICE
- GROUND
- 12,241 — AVAILABLE FAULT CURRENT (SYMMETRICAL) TAG
- 225 — FEEDER TAG
- PAD-MOUNT TRANSFORMER
- 480V / 208Y / 120V — TRANSFORMER
- PANELBOARD - MAIN LUGS ONLY
- PANELBOARD - MAIN CIRCUIT BREAKER

RACEWAYS AND BOXES

- J — JUNCTION BOX
- J F — FURNITURE WALL FEED OUTLET BOX
- PB XX — PULL BOX (WHERE INDICATED, SUBSCRIPT INDICATES PULL BOX TYPE)
- HH XX — HANDHOLE (WHERE INDICATED, SUBSCRIPT INDICATES VAULT TYPE)
- XX — VAULT (WHERE INDICATED, SUBSCRIPT INDICATES VAULT TYPE)
- A — FLOORBOX (WHERE INDICATED, SUBSCRIPT INDICATES FLOOR BOX TYPE)
- A — POKE-THRU (WHERE INDICATED, SUBSCRIPT INDICATES POKE-THRU TYPE)
- POWER POLE, FLOOR TO CEILING
- SURFACE METAL RACEWAY
- RACEWAY CONCEALED IN WALL OR IN CEILING (EXPOSED IN UNFINISHED AREAS)
- RACEWAY RUN BELOW FLOOR OR BELOW GRADE
- FLEXIBLE RACEWAY
- RACEWAY (CIRCLE DENOTES VERTICAL TRANSITION)
- RACEWAY CONTINUATION
- RACEWAY STUB WITH BUSHING
- RACEWAY SLEEVE WITH BUSHING
- FIRE STOPPING SLEEVE
- CABLE TRAY, 12"W x 4"H OVERHEAD, UNLESS OTHERWISE NOTED
- CABLE TRAY, OVERHEAD LADDER TYPE
- HA-3 — HOMERUN TO PANEL (INDICATES PANEL DESIGNATION AND CIRCUIT NUMBER)
- #10 — (GAUGE OF WIRE OTHER THAN AWG#12) NUMBER OF CONDUCTORS (GROUND CONDUCTOR) (PHASE CONDUCTORS) (NEUTRAL CONDUCTOR)

GROUNDING

- G — GROUNDING CONDUCTOR
- GROUND ROD
- GROUNDING BUSBAR
- EQUIPMENT GROUNDING CONNECTION
- GROUNDING STRAP

DRAWING INDEX

E0.01	ELECTRICAL LEGEND AND DRAWING INDEX
E0.02	ELECTRICAL NOTES AND ABBREVIATIONS
E1.01	RAINIER BUILDING ELECTRICAL SITE PLAN
E1.01a	RAINIER BUILDING LIGHTING CONTROL ZONE SITE PLAN
E7.01	RAINIER BUILDING ELECTRICAL DETAILS
E9.01	RAINIER BUILDING ELECTRICAL ONE-LINE DIAGRAM
E10.01	PANEL SCHEDULES

NOT ALL SYMBOLS MAY APPEAR ON THE DRAWINGS

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KMB Project # J2037C

ERIK S. STEARNS — STATE OF WASHINGTON — 36181 — REGISTERED PROFESSIONAL ENGINEER — 03/07/2023

LCDD RAINIER BLOCK
LEWIS COUNTY FACILITIES DEPARTMENT
351 NW NORTH STREET, CHEHALIS, WA 98532
Facilities Department

ORIGINAL SHEET SIZE = 24 x 36
HALF SIZE REDUCTIONS = 11 x 17

REVISIONS:

DATE: 3/10/23

BID SET

SHEET NO.

E0.01

ELECTRICAL LEGEND AND DRAWING INDEX

GENERAL NOTES

1. PERFORM WORK IN ACCORDANCE WITH APPLICABLE NATIONAL AND STATE CODES AS AMENDED LOCALLY AND ENFORCED BY THE AHJ.
2. OBTAIN AND PAY FOR PERMITS REQUIRED FOR INSTALLATION OF WORK. ARRANGE AND SCHEDULE REQUIRED INSPECTIONS.
3. COORDINATE WITH UTILITY COMPANIES FURNISHING SERVICES TO PROJECT. INSTALLATION OF UTILITY SERVICES SHALL BE IN ACCORDANCE WITH UTILITY REQUIREMENTS. VERIFY APPLICABLE INSTALLATION STANDARDS AND REQUIREMENTS. PROVIDE AND SUBMIT ELECTRICAL DRAWINGS TO UTILITY FOR APPROVAL PRIOR TO ROUGH-IN AND PRIOR TO ORDERING EQUIPMENT.
4. DEVICE LOCATIONS ARE APPROXIMATE. COORDINATE DEVICE LOCATIONS AND ELEVATIONS WITH APPROPRIATE DOCUMENTS INCLUDING CASEWORK SHOP DRAWINGS AND ARCHITECT'S INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
5. COORDINATE ELECTRICAL WORK WITH THAT OF OTHER TRADES. REFER TO MECHANICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, AND LANDSCAPE DRAWINGS AND SPECIFICATIONS. COORDINATION SHALL OCCUR PRIOR TO FABRICATION, PURCHASE, AND INSTALLATION OF WORK.
6. COORDINATE LOCATION OF LIGHT FIXTURES AND CEILING-MOUNTED DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS.
7. PROVIDE RATED ENCLOSURES AROUND ALL LIGHT FIXTURES PENETRATING RATED CEILINGS. COORDINATE WITH ARCHITECTURAL.
8. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION/SEISMIC JOINTS. PROVIDE RACEWAY EXPANSION/SEISMIC JOINTS FOR RACEWAYS CROSSING BUILDING EXPANSION/SEISMIC JOINTS.
9. DEMOLISH EXISTING SYSTEMS AS INDICATED ON PLANS OR AS REQUIRED FOR INSTALLATION OF NEW WORK. MATERIAL SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF OFF SITE UNLESS OTHERWISE DIRECTED. RETURN ITEMS TO OWNER IN EXISTING CONDITION WHEN DIRECTED BY OWNER.
10. COMPLETION OF WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE PROJECT SCHEDULE. SCHEDULE INSTALLATION WITH OTHER TRADES TO ENSURE PROJECT MILESTONES ARE MET.
11. DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION. PROVIDE COMPONENTS REQUIRED FOR COMPLETE AND OPERATIONAL SYSTEMS INCLUDING RACEWAYS, CONDUCTORS, BOXES, SUPPORTS AND SIMILAR ITEMS.
12. BRANCH CIRCUIT HOMERUNS ARE SHOWN TO INDICATE CIRCUIT PROPERTIES AND CONFIGURATION. SINGLE-CIRCUIT HOMERUNS SERVED FROM THE SAME PANELBOARD MAY BE COMBINED IN ACCORDANCE WITH THE DIVISION 26 SPECIFICATIONS, UNLESS INDICATED OTHERWISE. EXTEND AND CONNECT BRANCH CIRCUIT RACEWAY AND WIRING FROM HOMERUN TO DEVICES AND EQUIPMENT WITH CIRCUIT NUMBERS INDICATED. CONDUCTOR QUANTITIES AND SIZES ARE INDICATED AT HOMERUNS ONLY. SHOW ACTUAL RACEWAY ROUTING AND CIRCUITING ON RECORD DRAWINGS. MINIMUM CONDUCTOR SIZE #12 AWG.
13. LIGHT FIXTURES MOUNTED IN CONTINUOUS ROWS SHALL BE THROUGH-WIRED VIA FIXTURE INTERNAL WIREWAYS. CIRCUITS AS INDICATED ON DRAWINGS. FIXTURES NOT LISTED FOR THROUGH WIRING SHALL BE WIRED VIA SEPARATE RACEWAY AND WIRING SYSTEM EXTERNAL TO THE FIXTURES. PROVIDE RACEWAYS, WIRING AND CONNECTIONS FOR A COMPLETE AND OPERATIONAL SYSTEM.
14. LOCATIONS OF RACEWAY, PATHWAY AND SIMILAR ITEMS ARE SHOWN SCHEMATICALLY. COORDINATE INSTALLATION, INCLUDING BUT NOT LIMITED TO CABLING, TELECOMMUNICATION PATHWAYS AND SPACES, AND EXACT LOCATION OF HORIZONTAL AND BACKBONE CABLING WITH LOCATIONS OF FIXED CASEWORK AND BUILDING CONDITIONS AFFECTING THE WORK OF THIS CONTRACT.

NON-STRUCTURAL ELECTRICAL NOTES

1. THE FOLLOWING ITEMS ARE TAKEN DIRECTLY FROM THE 2018 INTERNATIONAL BUILDING CODE AND FROM THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) STANDARD 7. THE CONTRACTOR SHALL REFER TO THE ABOVE FOR ADDITIONAL INFORMATION, EXCEPTIONS, AND FURTHER DESCRIPTIONS. THE CONTRACTOR SHALL ADHERE TO REQUIREMENTS AND AS SUCH, SHALL BE INCLUDED WITHIN BID. ALSO REFER TO SPECIFICATIONS.
2. 2018 IBC, 1613.1, SCOPE: ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND NON-STRUCTURAL COMPONENTS THAT ARE PERMANENTLY ATTACHED TO STRUCTURES AND THEIR SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST THE EFFECTS OF EARTHQUAKE MOTIONS IN ACCORDANCE WITH WITH CHAPTERS 11, 12, 13, 15, 17 AND 18 OF ASCE 7.
3. ASCE 7 CONTRACTOR RESPONSIBILITY: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF A SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR COMPONENT LISTED IN THE QUALITY ASSURANCE PLAN AND SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE REGULATORY AUTHORITY HAVING JURISDICTION AND TO THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL INCLUDE THE FOLLOWING:
   A. ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE QUALITY ASSURANCE PLAN;
   B. ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE AUTHORITY HAVING JURISDICTION;
   C. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS; AND
   D. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.
4. DIVISION 26 RESPONSIBILITIES:
   A. HANGERS AND SEISMIC BRACING FOR ELECTRICAL SYSTEMS SHALL BE DESIGNED AND SPECIFIED BY DIVISION 26. DIVISION 26 SHALL REFER TO THE ELECTRICAL DRAWINGS FOR LOCATIONS OF EQUIPMENT AND ELECTRICAL SYSTEMS AS STRUCTURAL DRAWINGS DO NOT SHOW THE LOCATIONS OF ELECTRICAL EQUIPMENT, RACEWAYS, AND OTHER COMPONENTS.
   B. DIVISION 26 SHALL COORDINATE THE SUPPORT SYSTEMS AND DESIGN LOADS FOR HUNG RACEWAYS AND OTHER ELECTRICAL SYSTEMS (INCLUDING COMBINED MULTIPLE RACEWAY RUNS) WITH THE GENERAL CONTRACTOR AND THE STEEL AND WOOD JOIST MANUFACTURERS IN ADDITION TO OTHER TRADES THAT MAY BE IMPACTED.

ENERGY CODE NOTES

1. RECORD DRAWINGS: SUBMIT TO THE BUILDING OWNER PER ENERGY CODE ENFORCED BY THE LOCAL AHJ.
2. OPERATION AND MAINTENANCE MANUALS: SUBMIT TO THE BUILDING OWNER PER ENERGY CODE ENFORCED BY THE LOCAL AHJ.
3. THIS BUILDING AND ITS ENERGY SYSTEMS HAVE BEEN DESIGNED TO COMPLY WITH ENERGY CODE ENFORCED BY THE LOCAL AHJ. CONTRACTOR IS RESPONSIBLE FOR CORRECT INSTALLATION OF ENERGY CONSERVATION MEASURES.
4. LIGHTING CONTROL SYSTEMS COMMISSIONING AND COMPLETION REQUIREMENTS: TEST SYSTEMS TO ENSURE THAT BUILDING SYSTEMS HAVE BEEN INSTALLED AND FUNCTION PROPERLY AND EFFICIENTLY, AND CAN BE MAINTAINED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND OPERATIONAL REQUIREMENTS PER ENERGY CODE ENFORCED BY THE AHJ. REFER TO SPECIFICATIONS FOR ADDITIONAL COMMISSIONING REQUIREMENTS.

ABBREVIATIONS

A	AMPERE
AC	AIR CONDITIONING; ALTERNATING CURRENT; ABOVE COUNTER
AF	AMP FUSE; AMP FRAME
AFC	AVAILABLE FAULT CURRENT
AFF	ABOVE FINISHED FLOOR
AG	ABOVE GRADE
AHJ	AUTHORITIES HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CURRENT
AL	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AS	AMP SWITCH
AT	AMP TRIP
ATM	ASYNCHRONOUS TRANSFER MODE
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BATT	BATTERIES
BIL	BASIC IMPULSE INSULATION LEVEL
BKBD	BACKBOARD
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT; DEGREES CELSIUS
CAB	CABINET
CAT	CATEGORY
CATV	COMMUNITY ANTENNA TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CLG	CEILING
CM	CEILING-MOUNTED
CO	CONDUIT ONLY
COW	COMPUTER ON WHEELS
CR	CONTROLLED RECEPTACLE
CT	CURRENT TRANSFORMER
CU	COPPER
D	DEDICATED
DDC	DIRECT DIGITAL CONTROL
DEMARC	DEMARCATION POINT
DISC	DISCONNECT
DIST	DISTRIBUTION
DSL	DIGITAL SUBSCRIBER LINE
DWG	DRAWING
(E)	EXISTING
EA	EACH
EF	EXHAUST FAN
EIA	ELECTRONIC INDUSTRIES ASSOCIATION
ELEV	ELEVATION
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EPM	ELECTRONIC POWER METER
EPO	EMERGENCY POWER OFF
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
F	FUSE; DEGREES FAHRENHEIT
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OWNER
FC	FOOT-CANDLE
FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR
FOIO	FURNISHED BY OWNER INSTALLED BY OWNER
FSD	FIRE SMOKE DAMPER
G	GROUND
GB	GROUND FAULT CIRCUIT BREAKER
GF	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GND	GROUND
GRS	GALVANIZED RIGID STEEL
HC	HORIZONTAL CROSS CONNECT
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HTR	HEATER
Hz	HERTZ
IBC	INTERNATIONAL BUILDING CODE
IC	INTERMEDIATE CROSS CONNECT
IDF	INTERMEDIATE DISTRIBUTION FRAME
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
IG	ISOLATED GROUND
IMC	INTERMEDIATE METALLIC CONDUIT
ISDN	INTEGRATED SERVICES DIGITAL NETWORK
J	JUNCTION
K	KIRK KEY
KCMIL	THOUSAND CIRCULAR MILS
kVA	KILOVOLT AMPERE
KVAR	KILOVOLT AMPERE REACTIVE
kW	KILOWATT
LAN	LOCAL AREA NETWORK
LCP	LIGHTING CONTROL PANEL
LEC	LOCAL EXCHANGE CARRIER
LT	LIGHT
LTG	LIGHTING
M	METER
MAN	METROPOLITAN AREA NETWORK
MAX	MAXIMUM
MC	MAIN CROSS CONNECT; METAL CLAD (CABLE)
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MM	MULTIMODE
MPOE	MAIN POINT OF ENTRY
MPOP	MAIN POINT OF PRESENCE
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
(N)	NEW
N	NEUTRAL
NAC	NOTIFICATION APPLIANCE CIRCUIT
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NF	NON-FUSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
OFC	OPTICAL FIBER CABLE
OHL	OVERHEAD LINE
OL	OVERLOAD
OS	OCCUPANCY SENSOR
OSP	OUTSIDE PLANT
P	POLE
PBX	PRIVATE BRANCH EXCHANGE
PF	POWER FACTOR
PH	PHASE
PIR	PASSIVE INFRARED
PIV	POST INDICATING VALVE
PNL	PANEL
PP	PATCH PANEL
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
RC	ROOM CONTROLLER
RCP	REFLECTED CEILING PLAN
REC	RECEPTACLE
REF	REFER TO
REV	REVISION
RM	ROOM
RTRC	REINFORCED THERMORESETTING RESIN CONDUIT
RU	RACK UNIT
SB	STANDBY
SHT	SHEET
SLC	SIGNALING LINE CIRCUIT
SM	SINGLEMODE
SMFC	SURFACE-MOUNTED OPTICAL FIBER CABINET
SMR	SURFACE METAL RACEWAY
SONET	SYNCHRONOUS OPTICAL NETWORK
SP	SERVICE PROVIDER
SPD	SURGE PROTECTIVE DEVICE
SPEC	SPECIFICATIONS
SPST	SINGLE POLE SINGLE THROW
ST	SHUNT TRIP
STP	SHIELDED TWISTED PAIR
SVGA	SUPER VIDEO GRAPHICS ARRAY
SW	SWITCH
SWBD	SWITCHBOARD
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TEL	TELEPHONE
TELCO	TELEPHONE COMPANY
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TP	TAMPERPROOF
TR	TELECOMMUNICATIONS ROOM
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
USB	UNIVERSAL SERIAL BUS
UTP	UNSHIELDED TWISTED PAIR
UV	UNIT VENTILATOR
V	VOLTS
VA	VOLT AMPERES
VFD	VARIABLE FREQUENCY DRIVE
W	WATT; WIRE
W/	WITH
W/O	WITHOUT
WA	WORKSTATION AREA
WAN	WIDE AREA NETWORK
WG	WIRE GUARD
WH	WATT HOUR METER
WP	WEATHERPROOF
XMFR	TRANSFORMER
Y	WYE
Z	IMPEDANCE

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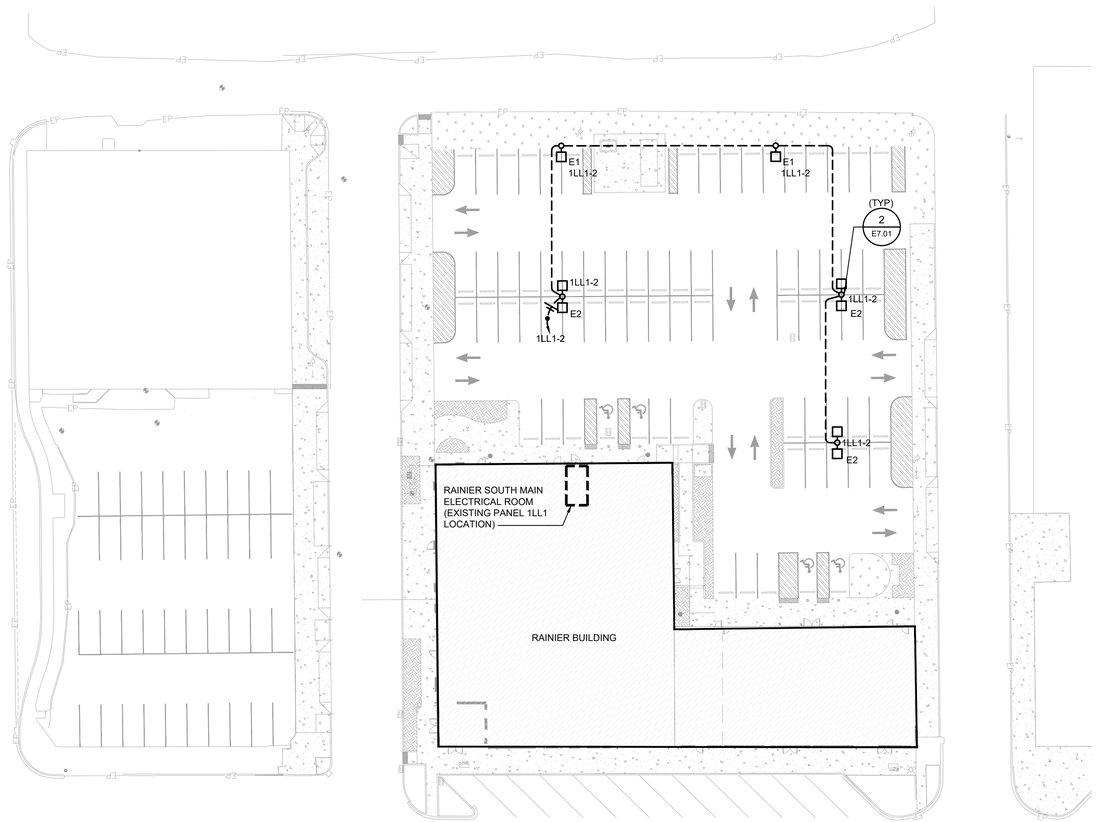
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E0.02
ELECTRICAL NOTES AND ABBREVIATIONS

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL SERIES	LIGHT SOURCE	COLOR TEMP	DELIVERED LUMENS	INPUT WATTS	VOLTAGE	POWER SUPPLY	OPTICS	SHIELDING	FINISH	REMARKS
EXTERIOR - SITE													
E1	SINGLE HEAD DIE CAST ALUMINUM SITE FIXTURE WITH TYPE III DISTRIBUTION, STANDARD MOUNTING ARM, NON-DIMMING ELECTRONIC DRIVERS FOR DUAL LEVEL LIGHTING AT 50% AND 100%, 10k SURGE PROTECTION AND INTEGRAL MOTION SENSOR	INVUE LIGHTING	EMM SERIES	LED	4000K	5873	52	120		TYPE III DISTRIBUTION		BY OWNER	
E1-POLE	5" DIAMETER ROUND STRAIGHT STEEL POLE WITH ONE-PIECE SHAFT AND BASE COVER	EATON OR APPROVED EQUAL	RSS SERIES	-	-	-	-	-				BY OWNER	SEE NOTE 2
		LITHONIA LIGHTING	RSS										
E2	DUAL HEAD DIE CAST ALUMINUM SITE FIXTURE WITH TYPE III DISTRIBUTION, STANDARD MOUNTING ARM, NON-DIMMING ELECTRONIC DRIVERS FOR DUAL LEVEL LIGHTING AT 50% AND 100%, 10k SURGE PROTECTION AND INTEGRAL MOTION SENSOR	INVUE LIGHTING	EMM SERIES	LED	4000K	11746	104	120		TYPE III DISTRIBUTION		BY OWNER	
E2-POLE	5" DIAMETER ROUND STRAIGHT STEEL POLE WITH ONE-PIECE SHAFT AND BASE COVER	EATON OR APPROVED EQUAL	RSS SERIES	-	-	-	-	-				BY OWNER	SEE NOTE 2
		LITHONIA LIGHTING	RSS										

REMARKS:
1. CONFIRM FINISHES WITH ARCHITECT.
2. PROVIDE 20'-0" POLE. SEE SHEET E7.01 FOR POLE BASE DETAILS AND ADDITIONAL INFORMATION.



1 / E1.01 **RAINIER BUILDING ELECTRICAL SITE PLAN**
SCALE: 1" = 30'

SHEET NOTES

1. REFER TO CIVIL, LANDSCAPE AND SURVEY DRAWINGS FOR ADDITIONAL INFORMATION.
2. COORDINATE PLACEMENT OF SITE LIGHTING, VAULTS AND RACEWAY WITH DIVISION 31, CIVIL AND DIVISION 32, LANDSCAPE CONTRACTORS. COORDINATE WITH TREE PROTECTION PLANS AND AVOID CRITICAL ROOT ZONES OF EXISTING TREES. CONFLICTS SHALL BE COMMUNICATED TO THE ARCHITECT FOR RESOLUTION PRIOR TO COMMENCEMENT OF SITE WORK.
3. MINIMUM CONDUIT SIZE SHALL BE 1 INCH. MINIMUM CONDUCTOR SIZE SHALL BE #10 AWG FOR BRANCH CIRCUIT WORK SHOWN ON THIS SHEET.
4. REFER TO LIGHT FIXTURE SCHEDULE, THIS SHEET, FOR ADDITIONAL INFORMATION.
5. PROVIDE #8 AWG CONDUCTORS FOR LIGHTING BRANCH CIRCUIT WORK SHOWN ON THIS SHEET.
6. ROUTE SITE LIGHTING CIRCUITS TO PANELS INDICATED VIA ASSOCIATED LIGHTING CONTROL PANELS. REFER TO E1.01A DRAWINGS FOR SITE LIGHTING CONTROL REQUIREMENTS. PROVIDE WIRING AND CONTROL DEVICES REQUIRED FOR COMPLETE SYSTEM.
7. REFER TO DETAILS 1, SHEET E7.01 FOR TRENCHING DETAILS.
8. REFER TO ONE-LINE DIAGRAM ON SHEET E9.01 AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
9. PANEL 1LL1 ARE LOCATED IN THE RAINIER SOUTH MAIN ELECTRICAL ROOM.

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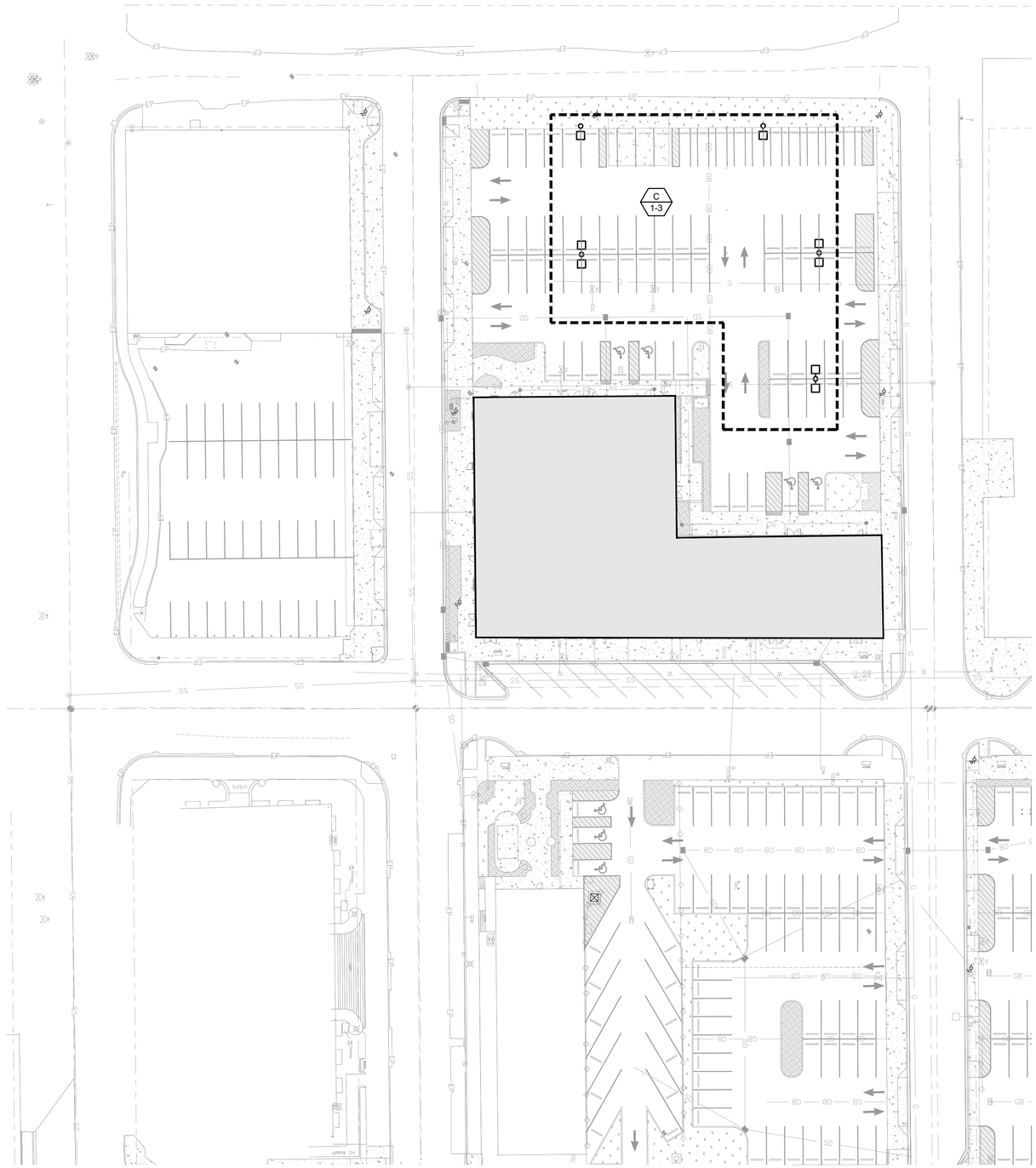
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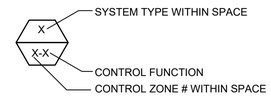
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E1.01
RAINIER BUILDING
ELECTRICAL SITE PLAN



LIGHTING CONTROL LEGEND



SYSTEM TYPE:
C = DIGITAL NETWORKED DEVICE

CONTROL FUNCTIONS:
1 = ON/OFF
2 = ON/OFF/DIMMING
3 = ON/OFF & NETWORK CONTROL

AREA
ALL FIXTURES IN AREA SHALL FUNCTION TOGETHER VIA AUTOMATIC AND/OR MANUAL CONTROL INDICATED

SEQUENCE OF OPERATIONS

EXTERIOR (ZONES 1) - SEQUENCE OF OPERATIONS

- PROVIDE CONNECTION TO EXISTING LIGHTING CONTROL PANEL IN THE RAINIER SOUTH BUILDING.
- LIGHTING CONTROL PANELS SHALL BE SET TO HAVE NORMAL HOURS OF OPERATION DURING OCCUPIED HOURS. LIGHTING CONTROL PANELS SHALL DISABLE SITE LIGHTING OUTSIDE NORMAL HOURS OF OPERATION.
- LIGHTING CONTROL PANELS SHALL BE CONFIGURED TO INTEGRATE SIGNAL FROM EXTERIOR PHOTOCELL.
- INTEGRATE LIGHTING ZONE TO EXISTING LIGHTING ZONE OVERRIDE SWITCHES LOCATED IN MAIN ELECTRICAL ROOM, VESTIBULE 100, AND HALL 00B SHALL TURN ON THE LIGHT FIXTURES OUTSIDE NORMAL HOURS OF OPERATION. OVERRIDE SWITCH SHALL ENABLE/DISABLE FOR A 2-HOUR TIME PERIOD.

N

1 E1.01a **LIGHTING CONTROL ZONE SITE PLAN**
SCALE: 1" = 30'

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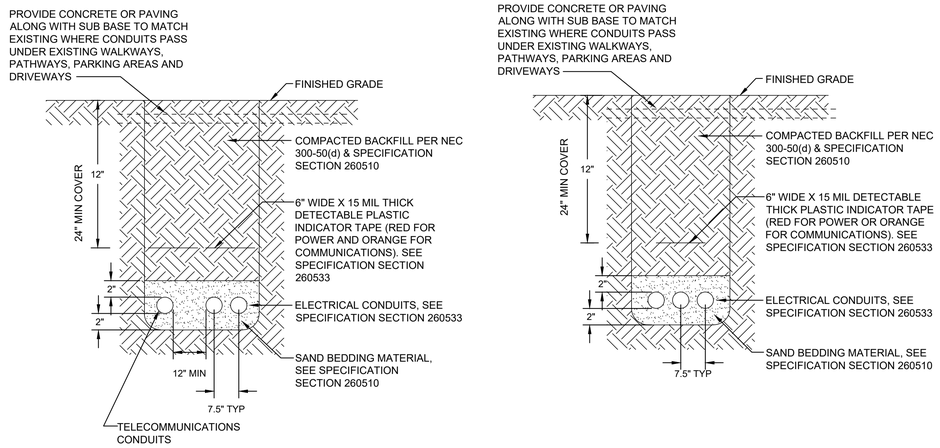
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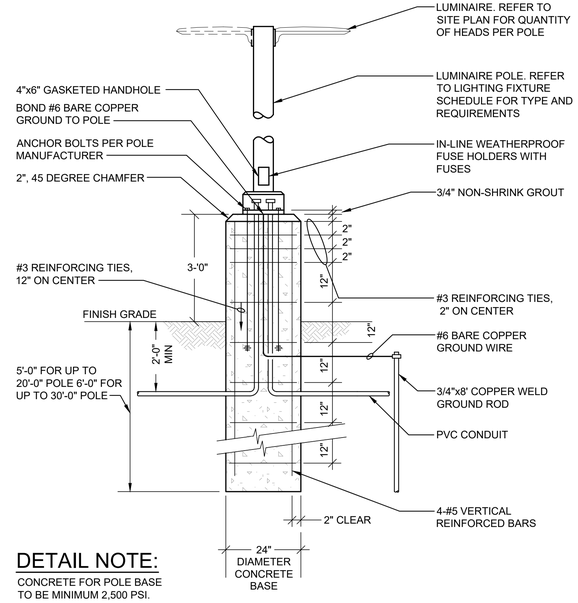
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SHEET NO.
E1.01a
RAINIER BUILDING
LIGHTING CONTROL
ZONE SITE PLAN



1 E7.01 **ELECTRICAL TRENCHING DETAIL**

SCALE: NONE



DETAIL NOTE:

CONCRETE FOR POLE BASE TO BE MINIMUM 2,500 PSI.

2 E7.01 **CONCRETE POLE BASE DETAIL**

SCALE: NONE

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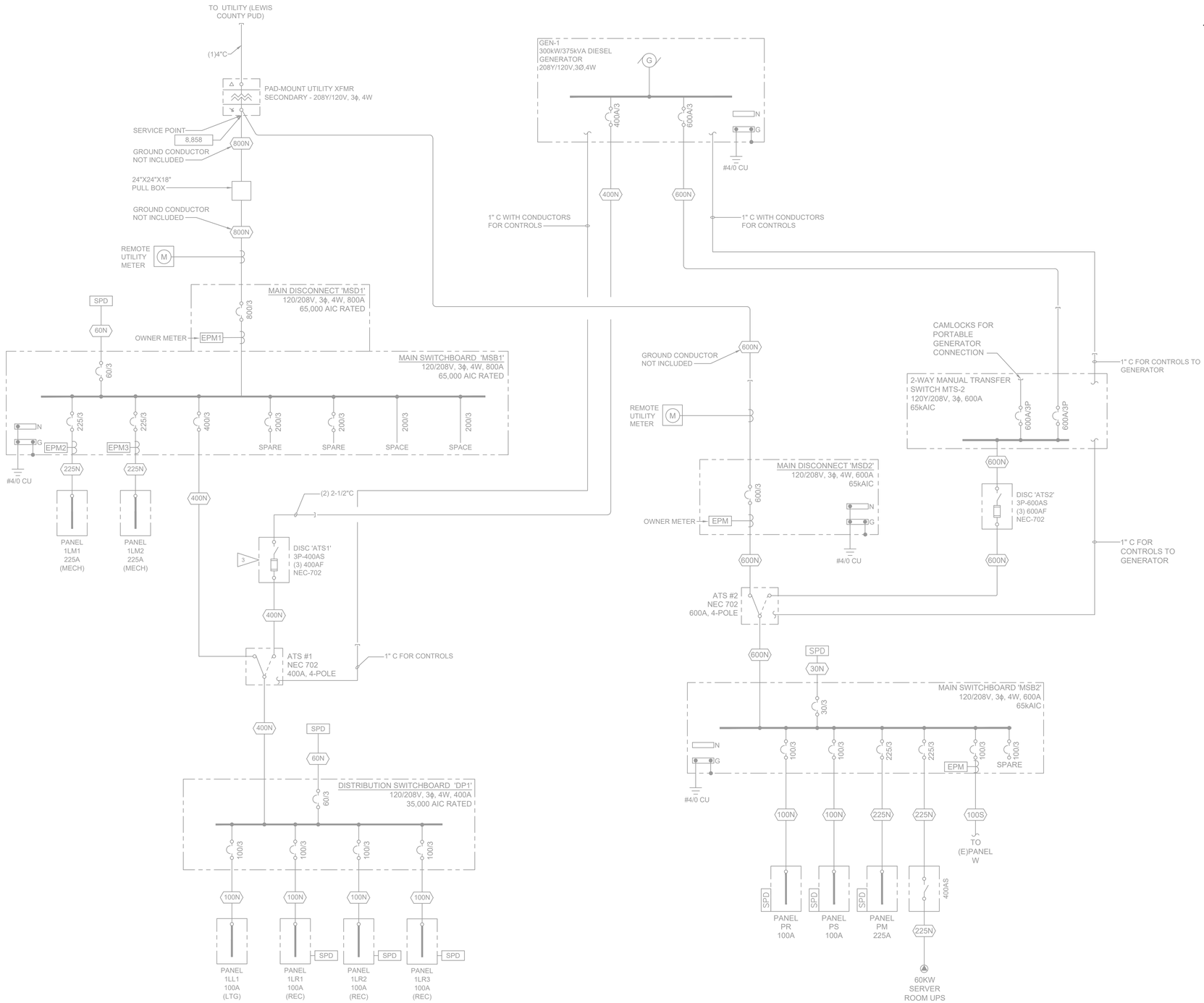
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E7.01
RAINIER BUILDING
ELECTRICAL DETAILS



SHEET NOTES

1. NO NEW WORK. FOR REFERENCE ONLY.

1 E9.01 **RAINIER BUILDING ELECTRICAL ONE-LINE DIAGRAM**

SCALE: NO SCALE

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RAINIER BUILDING
ELECTRICAL ONE-LINE
DIAGRAM

PANEL SCHEDULE : 09/15/2022 — **(E) PANEL '1LL1'** — **PROJECT: Lewis County Site Lighting**

CLASSIFICATION: NORMAL
FED FROM: DP-1
MOUNTING: SURFACE

VOLTAGE: 208Y/120V 3Ø, 4-WIRE
MAINS: 100A MAIN LUGS ONLY
NEUTRAL: 100% RATED
SECTION: 1 OF 1

LOCATION: RAINIER SOUTH BUILDING

NOTE	ITEM DESCRIPTION	CKT NO.	BREAKER AMPS	BREAKER POLE	LOAD (VA)	Ø	LOAD (VA)	BREAKER AMPS	BREAKER POLE	CKT NO.	ITEM DESCRIPTION	NOTE
	LIGHTING - OPEN OFFICE	1	20	1	1643	A	**272**	**20**	**1**	**2**	**LIGHTING - SITE**	**1**
	LIGHTING - OFFICE/LOBBY/WAITING	3	20	1	1690	B	500	20	1	4	LIGHTING CONTROL PANEL	
	LIGHTING - STORAGE/OFFICE/TOILET	5	20	1	1221	C		20	1	6	SPARE	
	LIGHTING - ELEC/BOH/BREAK	7	20	1	1505	A		20	1	8	SPARE	
	LIGHTING - EXTERIOR	9	20	1	360	B		20	1	10	SPARE	
	SPARE	11	20	1		C		20	1	12	SPARE	
	SPARE	13	20	1		A		20	1	14	SPARE	
	SPARE	15	20	1		B		20	1	16	SPARE	
	SPARE	17	20	1		C		20	1	18	SPARE	
	SPACE	19	-	-		A		-	-	20	SPACE	
	SPACE	21	-	-		B		-	-	22	SPACE	
	SPACE	23	-	-		C		-	-	24	SPACE	
	SPACE	25	-	-		A		-	-	26	SPACE	
	SPACE	27	-	-		B		-	-	28	SPACE	
	SPACE	29	-	-		C		-	-	30	SPACE	
	SPACE	31	-	-		A		-	-	32	SPACE	
	SPACE	33	-	-		B		-	-	34	SPACE	
	SPACE	35	-	-		C		-	-	36	SPACE	
	SPACE	37	-	-		A		-	-	38	SPACE	
	SPACE	39	-	-		B		-	-	40	SPACE	
	SPACE	41	-	-		C		-	-	42	SPACE	

LOAD CALCULATIONS

LOAD DESCRIPTION	CONN. (VA)	DEMAND FACTOR	CALC. (VA)
MISCELLANEOUS CONTINUOUS	-	125%	-
EQUIPMENT & MISCELLANEOUS	-	100%	-
LIGHTING	7191	125%	8989
LARGEST MOTOR	-	125%	-
MOTORS	-	100%	-
RECEPTACLE	-	100%	-
RECEPTACLES OVER 10kVA	-	50%	-
TOTALS:	**7,191**		**8,989**

LOAD SUMMARY

TOTAL CONNECTED LOAD — **AMPS**

PHASE A: 3,420 VA — 29 A

PHASE B: 2,550 VA — 21 A

PHASE C: 1,221 VA — 10 A

TOTAL CALCULATED LOAD: 8,989 VA

TOTAL CALCULATED AMPS: 25 A

NOTES:
1. UTILIZE EXISTING PANEL SPARE TO SERVE EXTERIOR LIGHTING LOADS.
2.
3.
4.
5.

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KMB Project # J2037C

ERIK S. STEARNS — STATE OF WASHINGTON — 38181 — REGISTERED PROFESSIONAL ENGINEER — 03/07/2023

LCDD RAINIER BLOCK
LEWIS COUNTY FACILITIES DEPARTMENT
351 NW NORTH STREET, CHEHALIS, WA 98532
Facilities Department

ORIGINAL SHEET SIZE = 24 x 36
HALF SIZE REDUCTIONS = 11 x 17

REVISIONS:

DATE:
3/10/23

BID SET

SHEET NO.
E10.01
PANEL SCHEDULES