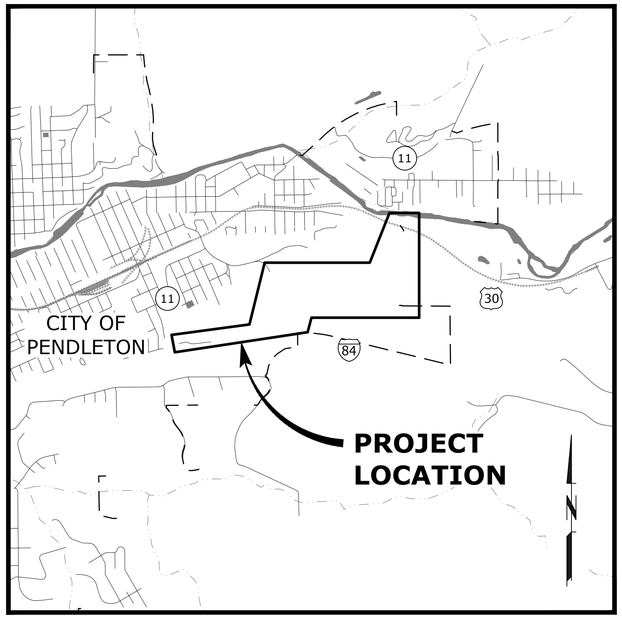
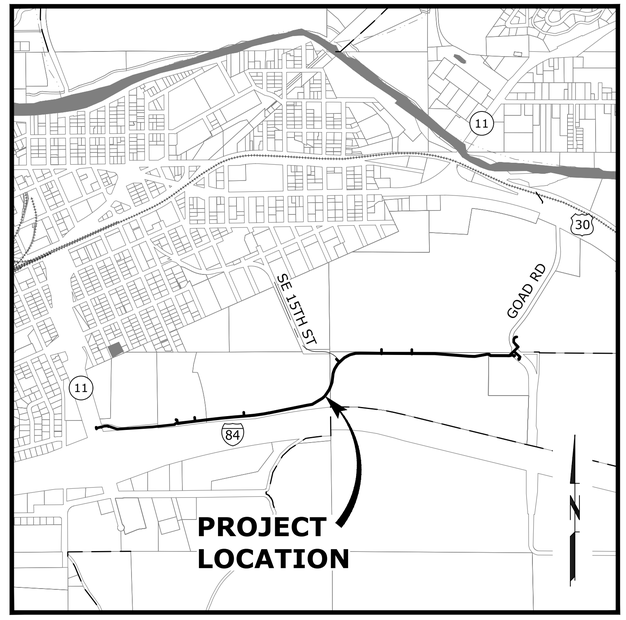
SCHEDULE A & B:
CONNECTOR ROAD WATERLINES

JUNE 2023



LOCATION MAP
SCALE: 1"=2,000'

INDEX OF DRAWINGS



VICINITY MAP
SCALE: 1"=1,000'

consor
ONE SW COLUMBIA STREET, SUITE 1700
PORTLAND, OREGON 97204
P 503.225.9010

ATTENTION: OREGON LAW REQUIRES THE CONTRACTOR TO FOLLOW THE RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. THE CONTRACTOR MAY OBTAIN COPIES OF THE RULES BY CALLING THE UTILITY NOTIFICATION CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS 503-246-6699.)

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

GENERAL NOTES

1. THE CONTRACTOR SHALL POTHOLE AND VERIFY LOCATIONS, ELEVATIONS, TYPES AND SIZES OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTING NEW PIPING FAR ENOUGH IN ADVANCE TO ALLOW NECESSARY ADJUSTMENTS IN GRADE AND SHALL NOTIFY OWNER'S REPRESENTATIVE OF NEED TO ADJUST PIPING INSTALLATION ACCORDINGLY. POTHOLING SHALL SUFFICIENTLY PRECEDE LAYING OF PIPE TO ALLOW REQUIRED ELEVATION ADJUSTMENTS TO BE ACCOMPLISHED WITHOUT REWORK. ELEVATION ADJUSTMENTS SHALL BE EXPECTED AND ARE INCIDENTAL TO THE WORK. DEFLECT PIPE AS REQUIRED AND WITHIN SPECIFIED TOLERANCES TO AVOID EXISTING UTILITIES AND COMPLETE TIE-INS.

2. LOCATIONS OF EXISTING UTILITIES ARE BASED ON INFORMATION SUPPLIED BY THE UTILITIES AND CONSIDERED APPROXIMATE ONLY. AS REQUIRED BY STATE LAW, THE CONTRACTOR SHALL OBTAIN UTILITY LOCATES PRIOR TO COMMENCING CONSTRUCTION.

3. CONTRACTOR SHALL PROVIDE OWNER'S REPRESENTATIVE WITH MINIMUM 24 HOURS NOTICE WHEN POTHOLING WILL BE COMPLETE. COORDINATE WITH OWNER'S REPRESENTATIVE TO REVIEW UTILITY INVESTIGATIONS AND TO MAKE APPROPRIATE ADJUSTMENTS FOR ANY ALIGNMENT CONFLICTS WHERE CONNECTING TO EXISTING UTILITIES.

4. OREGON LAW REQUIRES THE CONTRACTOR TO FOLLOW THE RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. THE CONTRACTOR MAY OBTAIN COPIES OF THE RULES BY CALLING THE UTILITY NOTIFICATION CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS 503-246-6699.)

5. EXISTING OVERHEAD POWER LINES OCCUR ALONG THE TRANSMISSION MAIN ALIGNMENT. CONTRACTOR TO CONFORM TO CONDITIONS IN VICINITY OF OVERHEAD LINES AND COORDINATE ALL CONSTRUCTION ACTIVITIES WITH PACIFIC LIGHT AND POWER REPRESENTATIVES.

6. PROVIDE "AS CONSTRUCTED" DRAWINGS INDICATING ALL CHANGES IN GRADE, ALIGNMENT, FITTINGS AND MATERIALS INSTALLED AND ANY OTHER UTILITIES OR OBSTACLES NOT SO INDICATED ON THESE PLANS.

7. AT THE END OF EACH WORK DAY, ALL OPEN TRENCHES SHALL BE BACKFILLED AND ALL TRENCHES SHALL EITHER BE TEMPORARILY PAVED OR FILLED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.

8. CONTRACTOR SHALL PROTECT ALL PROPERTY CORNERS, SURVEY MONUMENTS, AND CONTROL SURVEY MONUMENTS. ALL ITEMS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED AT CONTRACTOR'S EXPENSE, WITH APPROPRIATE SURVEY FILED WITH COUNTY SURVEYOR.

9. CONTRACTOR SHALL SUPPORT AND PROTECT AS NECESSARY ANY PIPE OR CONDUIT EXPOSED AS PART OF THE NEW PIPE TRENCH EXCAVATION. CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES IN SERVICE AT ALL TIMES AND SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES TO MAINTAIN AND PROTECT SERVICES.

10. SUBSURFACE EXPLORATORY TEST PITS CONDUCTED ALONG TRANSMISSION MAIN ALIGNMENTS ARE REFERENCED IN A GEOTECHNICAL INVESTIGATION REPORT DATED JANUARY 2023. THE REPORT IS INCLUDED AS SUPPLEMENTARY INFORMATION FOR CONTRACTOR REFERENCE ONLY AND ARE NOT A PART OF THE CONTRACT DOCUMENTS.

11. ALL WORK SHALL BE CONFINED TO RIGHT-OF-WAY OR CITY PROPERTY, AS GENERALLY SHOWN IN THE DRAWINGS AS AREA OF PROJECT IMPROVEMENTS.

12. ALL CONCRETE SHALL BE A MINIMUM OF 3000 PSI 28 DAY COMPRESSION STRENGTH, UNLESS OTHERWISE NOTED.

13. ALL EXISTING FEATURES INCLUDING, BUT NOT LIMITED TO, ROADWAYS, STRUCTURES, LOTS, CURBS, SIDEWALKS, FENCES, WALLS, PLANTING, DITCHES, MAILBOXES, SIGNS, PIPING AND UTILITIES DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO AS GOOD OR BETTER THAN EXISTING CONDITION UNLESS OTHERWISE SPECIFIED. IF A UTILITY IS DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT OWNER OF UTILITY FOR INSPECTION OF DAMAGE PRIOR TO REPAIRS. CONTRACTOR SHALL REPAIR ALL UTILITY SERVICES DAMAGED DURING CONSTRUCTION AND SUCH REPAIR SHALL BE CONSIDERED INCIDENTAL.

14. CONTRACTOR TO OBTAIN AND COMPLY WITH APPLICABLE CITY OF PENDLETON, UMATILLA COUNTY, AND OREGON DEPARTMENT OF TRANSPORTATION PERMITS AND REQUIREMENTS FOR WORK IN, AND RESTORATION OF, CITY, COUNTY, AND STATE ROADWAYS.

16. DO NOT REMOVE TREES UNLESS THEY HAVE BEEN PREVIOUSLY IDENTIFIED IN THE FIELD FOR REMOVAL PER OWNER'S REPRESENTATIVE. CONTRACTOR SHALL COORDINATE REMOVAL OF IMPACTED TREES WITH ADJACENT HOMEOWNER WITH REGARDS TO TREE CUTTING, REMOVAL, FIREWOOD RETENTION AND TREE REPLACEMENT.

WATER NOTES

1. RESTRAIN ALL VALVES, TEES, BENDS, AND FITTINGS UNLESS OTHERWISE NOTED. ALL FITTINGS TO BE MECHANICAL JOINT UNLESS OTHERWISE NOTED.

2. ALL FLANGED CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF AWWA C115 AND C207, LATEST EDITION.

3. PROVIDE POLYETHYLENE ENCASEMENT FOR ALL DUCTILE IRON PIPING ACCORDING TO ANSI/AWWA C105/A21.5 AND WHEN NEW PIPING IS WITHIN 10' HORIZONTALLY OF EXISTING GAS LINES.

4. ALL COATINGS AND MATERIALS SPECIFIED HEREIN THAT COME IN CONTACT WITH POTABLE WATER SHALL BE NATIONAL SANITATION FOUNDATION (NSF) APPROVED.

5. ALL PIPING SHALL BE TESTED UNDER A HYDROSTATIC TEST PRESSURE OF 150 PERCENT OF THE DESIGN PRESSURE, BUT NOT LESS THAN 150 PSI (± 5 PSI), MEASURED FROM THE LOWEST POINT ALONG THE TEST SECTION OR AS SHOWN ON THE PLANS. SEE SPECIFICATIONS. ALL VALVES, FITTINGS, AND PIPING SHALL BE SUITABLE FOR TEST PRESSURES.

6. WHERE VERTICAL BENDS ARE NOT SHOWN, CONTRACTOR IS TO DEFLECT PIPE TO ACHIEVE VERTICAL ADJUSTMENTS AS NEEDED. THE MAXIMUM ALLOWABLE DEFLECTION SHALL NOT EXCEED ONE-HALF OF THE MAXIMUM INSTALL DEFLECTION SPECIFIED.

7. CONTRACTOR SHALL PROVIDE TEMPORARY TAPS, BLOW-OFFS, AND THRUST BLOCKING AS REQUIRED TO FACILITATE FLUSHING, TESTING, AND DISINFECTION OF WATERLINES. REMOVE TEMPORARY TEST TAPS UPON COMPLETION OF DISINFECTION, AND REPLACE WITH STERILIZED TEMPORARY PLUGS. TEMPORARY PLUGS SHALL BE REMOVED TO MAKE FINAL CONNECTIONS TO SERVICE LINES.

8. CONNECTIONS TO CITY WATERLINES MAY REQUIRE TEMPORARY SHUTDOWNS OF CITY FACILITIES. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CITY AND PROVIDE A MINIMUM OF 72 HOURS ADVANCE NOTICE PRIOR TO PERFORMING WATERLINE TIE-IN WORK. CONTRACTOR TO VERIFY WITH THE CITY IF CITY WATER LINES ARE TO BE TAKEN OUT OF SERVICE PRIOR TO PERFORMING THIS WORK. OPERATION OF VALVES SHALL BE BY CITY PERSONNEL ONLY.

9. WHERE A WATERLINE CROSSES A SANITARY SEWER LINE, ONE PIPE LENGTH OF THE WATERLINE MUST BE CENTERED AT THE CROSSING.

TOPOGRAPHIC SURVEY NOTES

1. SURVEY WAS COMPLETED BY THE CITY OF PENDLETON. ELEVATIONS ARE BASED ON NGVD 1929 DATUM. HORIZONTAL COORDINATES ARE LOCAL CITY OF PENDLETON GRID SYSTEM.

2. UTILITY INFORMATION SHOWN HEREIN IS COMPILED FROM FIELD OBSERVED SURFACE FEATURES, AND FIELD LOCATED PAINT MARK "LOCATES" PERFORMED BY OTHERS. SURVEYOR MAKES NO GUARANTEE THAT UTILITIES SHOWN HEREIN COMPRISE ALL POSSIBLE UTILITIES IN THE AREA NOR WARRANTS THAT UTILITIES ARE IN THE EXACT LOCATIONS INDICATED.

3. THIS TOPOGRAPHIC SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT, AND THEREFORE DOES NOT PURPORT TO TO SHOW ALL EASEMENTS, ENCUMBRANCES, OR RESTRICTIONS OF RECORD, IF ANY.

EROSION CONTROL NOTES

1. CITY WILL OBTAIN AN OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ) 1200-C EROSION CONTROL PERMIT. PRIOR TO BEGINNING ANY SITE DISTURBING ACTIVITY, PERMIT SHALL BE TRANSFERRED TO CONTRACTOR.

2. CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION/SEDIMENTATION CONTROL DURING CONSTRUCTION (ANY TIME OF YEAR) IN ACCORDANCE WITH THE DEQ EROSION PREVENTION AND SEDIMENT CONTROL REQUIREMENTS, THE STANDARD CONSTRUCTION SPECIFICATIONS FOR THIS PROJECT, AND THE EROSION CONTROL NOTES INCLUDED BELOW AND WITHIN THESE PLANS. IF DISCREPANCIES BETWEEN STANDARDS OCCUR, THE MORE STRINGENT REGULATION SHALL APPLY.

3. APPROVAL OF THIS EROSION AND SEDIMENT CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTIONS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC).

4. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.

5. THE BOUNDARIES OF THE LIMITS OF WORK SHOWN ON THESE PLANS SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED LIMITS OF WORK SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.

6. THE ESC FACILITIES SHOWN ON THESE PLANS MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.

7. THE ESC FACILITIES SHOWN ON THESE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT LEAVE THE SITE.

8. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONALITY.

9. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN 24 HOURS FOLLOWING A STORM EVENT.

10. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT. SEE PLANS FOR GRAVEL CONSTRUCTION ENTRANCE.

11. CONTRACTOR SHALL MAINTAIN PROPER DUST CONTROL MEASURES AT ALL TIMES. SPECIAL ATTENTION SHALL BE GIVEN TO MAINTAINING DUST CONTROL MEASURES ON OLD AIRPORT ROAD AT ALL TIMES, ESPECIALLY DURING TIMES OF HAULING EXCAVATED MATERIALS FROM THE RESERVOIR SITE SOUTH TO WESTGATE.

12. NOTIFY OWNER'S REPRESENTATIVE 24 HOURS PRIOR TO ANY WORK ON SITE.

13. CONTRACTOR SHALL PROVIDE CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL).

PROJECT CONTACTS

OWNER:
CITY OF PENDLETON, DEPT OF PUBLIC WORKS
500 SW DORIAN AVENUE
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OWNER'S REPRESENTATIVE:
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CIVIL ENGINEER:
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F: 503-225-9022

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P: 541-966-0243
F: 541-966-0251

NO.	DATE	BY	REVISION

NOTICE
0 ½ 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

MDP DESIGNED
JSD DRAWN
LLA CHECKED

REGISTERED PROFESSIONAL ENGINEER 76386 OREGON DECEMBER 29, 2006 LAEL L. ALDERMAN RENEWS 12/31/2023

consor

CITY OF PENDLETON INCORPORATED 1880 OREGON

SCHEDULE A & B: CONNECTOR ROAD WATERLINES

GENERAL

GENERAL NOTES

PROJECT NO.: 22-3530 | SCALE: AS SHOWN | DATE: JUNE 2023

SHEET G-2

@	AT
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS
AB	ANCHOR BOLT
ABAN(D)	ABANDON(ED)
ABS	ACRYLONITRILE BUTADIENE STYRENE
ABV	ABOVE / ALCOHOL BY VOLUME
AC	ASPHALTIC CONCRETE
ACP	ASPHALTIC CONCRETE PAVING
ADJ	ADJUSTABLE
ADJC	ADJACENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHR	ANCHOR
AL	ALUMINUM
ALT	ALTERNATE
AMP	AMPERE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
APPVD	APPROVED
APWA	AMERICAN PUBLIC WORKS ASSOCIATION
ARCH	ARCHITECTURAL
ARV	AIR RELEASE VALVE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASSN	ASSOCIATION
ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
ATM	ATMOSPHERE
AUTO	AUTOMATIC
AUX	AUXILIARY
AVE	AVENUE
AVG	AVERAGE
AWWA	AMERICAN WATER WORKS ASSOCIATION
B&S	BELL & SPIGOT
BC	BOLT CIRCLE
BD	BOARD
BETW	BETWEEN
BF	BOTH FACE
BFD	BACKFLOW PREVENTION DEVICE
BFILL	BACKFILL
BFV	BUTTERFLY VALVE
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BLK	BLOCK
BLVD	BOULEVARD
BM	BENCHMARK / BEAM
BMP	BEST MANAGEMENT PRACTICES
BO	BLOWOFF
BOC	BACK OF CURB
BOT	BOTTOM
BS	BOTH SIDES
BSMT	BASEMENT
BTF	BOTTOM FACE
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BW	BOTH WAYS
C	CELSIUS
C TO C	CENTER TO CENTER
CARV	COMBINATION AIR RELEASE VALVE
CATV	CABLE TELEVISION
CB	CATCH BASIN
CCP	CONCRETE CYLINDER PIPE
CCW	COUNTER CLOCKWISE
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CHAN	CHANNEL
CHEM	CHEMICAL
CHFR	CHAMFER
CHKV	CHECK VALVE
CI	CAST IRON
CIP	CAST IRON PIPE
CIPC	CAST IN PLACE CONCRETE
CISP	CAST IRON SOIL PIPE
CJ	CONSTRUCTION JOINT
CL OR C/L	CENTER LINE
CL2	CHLORINE
CLG	CEILING
CLJ	CONTROL JOINT
CLR	CLEAR
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CND	CONDUIT

CO	CLEANOUT
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS / CONTINUATION
CONTR	CONTRACT(OR)
COORD	COORDINATE
COP	COPPER
CORP	CORPORATION
CORR	CORRUGATED
CP	CONTROL POINT
CPLG	COUPLING
CPVC	CHLORINATED POLYVINYL CHLORIDE
CR	CRUSHED ROCK
CS	COMBINED SEWER
CSP	CONCRETE SEWER PIPE
CT	COURT
CTR	CENTER
CU	CUBIC
CULV	CULVERT
CV	CONTROL VALVE
CW	CLOCKWISE / COLD WATER
CY	CUBIC YARDS
CYL	CYLINDER LOCK
D	DRAIN
DC	DIRECT CURRENT
DEFL	DEFLECTION
DET	DETAIL
DI	DUCTILE IRON
DIA	DIAMETER
DIM	DIMENSION
DIR	DIRECTION
DIST	DISTANCE
DN	DOWN
DR	DRIVE
DS	DOWNSPOUT
DWG	DRAWING
DWL	DOWEL
DWV	DRAIN WASTE AND VENT
DWY	DRIVEWAY
EA	EACH
ECC	ECCENTRIC
EF	EACH FACE
EL	ELEVATION
ELB	ELBOW
ELEC	ELECTRICAL
ENCL	ENCLOSURE
EOP	EDGE OF PAVEMENT
EQ	EQUAL
EQL SP	EQUALLY SPACED
EQUIP	EQUIPMENT
EW	EACH WAY
EXC	EXCAVATE
EXIST	EXIST
EXP	EXPANSION
EXP BT	EXPANSION BOLT
EXP JT	EXPANSION JOINT
EXT	EXTERIOR
F	FAHRENHEIT
F TO F	FACE TO FACE
FAB	FABRICATE
FB	FLAT BAR
FCA	FLANGED COUPLING ADAPTER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDN	FOUNDATION
FEXT	FIRE EXTINGUISHER
FF	FINISHED FLOOR / FAR FACE
FGL	FIBERGLASS
FH	FIRE HYDRANT
FIN	FINISH(ED)
FIPT	FEMALE IRON PIPE THREAD
FITP	FITTING
FL	FLOOR LINE
FLEX	FLEXIBLE
FLG	FLANGE
FLL	FLOW LINE
FLR	FLOOR
FM	FORCE MAIN
FO	FIBER OPTIC
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH

FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FEET / FOOT
FTG	FOOTING
FUT	FUTURE
FXTR	FIXTURE
G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GROOVED COUPLING
GFA	GROOVED FLANGE ADAPTER
GI	GALVANIZED IRON
GIP	GALVANIZED IRON PIPE
GJ	GRIP JOINT
GL	GLASS
GLV	GLOBE VALVE
GND	GROUND
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPS	GALLONS PER SECOND
GR	GRADE
GR LN	GRADE LINE
GRTG	GRATING
GV	GATE VALVE
GRVL	GRAVEL
GYP	GYPSUM
HB	HOSE BIBB
HC	HOLLOW CORE
HDPE	HIGH DENSITY POLYETHYLENE
HDR	HEADER
HDWE	HARDWARE
HGR	HANGER
HGT	HEIGHT
HH	HANDHOLD
HM	HOLLOW METAL
HNDRL	HAND RAIL
HOA	HAND-OFF-AUTO
HOR	HAND-OFF-REMOTE
HORIZ	HORIZ
HP	HIGH PRESSURE / HORSEPOWER
HPG	HIGH PRESSURE GAS
HPT	HIGH POINT
HR	HOUR
HSB	HIGH STRENGTH BOLT
HV	HOSE VALVE
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HWL	HIGH WATER LINE
HWY	HIGHWAY
HYD	HYDRANT
HYDR	HYDRAULIC
I&C	INSTRUMENTATION & CONTROL
IAW	IN ACCORDANCE WITH
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IF	INSIDE FACE
IMPVT	IMPROVEMENT
IN	INCH
INCC	INCLUDE(D)(ING)
INFL	INFLUENT
INJ	INJECTION
INSTL	INSTALLATION / INSTALL
INSUL	INSULATION
INTER	INTERCEPTOR
INTR	INTERIOR
INV	INVERT
IP	IRON PIPE
IPT	IRON PIPE THREAD
IR	IRON ROD
IRRIG	IRRIGATION
JT	JOINT
JUNC	JUNCTION
KPL	KICK PLATE
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWY	KEYWAY
L	LENGTH

LAB	LABORATORY
LAV	LAVATORY
LB	POUND
LF	LINEAR FOOT
LIN	LINEAL
LN	LANE
LOC	LOCATION
LONG	LONGITUDINAL
LP	LOW PRESSURE
LPT	LOW POINT
LRG	LARGE
LS	LONG SLEEVE / LUMP SUM
LT	LEFT
LVL	LEVEL
LWL	LOW WATER LINE
MAN	MANUAL
MAT	MATERIAL
MAX	MAX
MCC	MOTOR CONTROL CENTER
MCP	MASTER CONTROL PANEL
MECH	MECHANICAL
MET	METAL
MFR	MANUFACTURER
MGD	MILLION GALLONS PER DAY
MH	MANHOLE
MIN	MIN
MIPT	MALE IRON PIPE THREAD
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MON	MONUMENT / MONOLITHIC
MOT	MOTOR
MP	MILEPOST
MSL	MEAN SEAL LEVEL
MTD	MOUNTED
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NF	NEAR FACE
NIC	NOT IN CONTRACT
NO / NO.	NORMALLY OPEN / NUMBER
NOM	NOMINAL
NORM	NORMAL
NRS	NON-RISING STEM
NTS	NOT TO SCALE
O TO O	OUT TO OUT
OC	ON CENTER
OD	OUTSIDE DIAMETER
ODOT	OREGON DEPARTMENT OF TRANSPORTATION
OF	OVERFLOW / OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
ORIG	ORIGINAL
OVHD	OVERHEAD
P&ID	PROCESS & INSTRUMENTATION DIAGRAM
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PCVC	POINT OF CURVATURE ON VERTICAL CURVE
PE	PLAIN END
PERF	PERFORATED
PERM	PERMANENT
PERP	PERPENDICULAR
PG	PRESSURE GAUGE
PH	PIPE HANGER
PI	POINT OF INTERSECTION
PIVC	POINT OF INTERSECTION ON VERTICAL CURVE
PL OR P/L	PROPERTY LINE / PLATE / PLASTIC
PLBG	PLUMBING
PNL	PANEL
POC	POINT OF CURVATURE
POLY	POLYETHYLENE
POT	POINT OF TANGENCY
PP	POWER POLE
PRC	POINT OF REVERSE CURVATURE
PRCST	PRECAST
PREP	PREPARATION
PRESS	PRESSURE
PRKG	PARKING
PROP	PROPOSED / PROPERTY
PRV	PRESSURE REDUCING VALVE
PS	PUMP STATION
PSIG	POUNDS PER SQUARE INCH GAUGE

PSL	PIPE SLEEVE
PSPT	PIPE SUPPORT
PT	POINT OF TANGENCY
PTVC	POINT OF TANGENCY ON VERTICAL CURVE
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PWR	POWER
QTY	QUANTITY
RAD	RADIUS
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD / ROOF DRAIN
RDCR	REDUCER
REF	REFERENCE
REINF	REINFORCE(D)(ING)(MENT)
REQ'D	REQUIRED
RESTR	RESTRAINED
RFCA	RESTRAINED FLANGE COUPLING ADAPTER
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
R/W	RIGHT-OF-WAY
RPBPD	REDUCED PRESSURE BACKFLOW PREVENTION DEVICE
RPM	REVOLUTIONS PER MINUTE
RR	RAILROAD
RST	REINFORCED STEEL
RT	RIGHT
SALV	SALVAGE
SAN	SANITARY
SC	SOLID CORE
SCHED	SCHEDULE
SD	STORM DRAIN
SDL	SADDLE
SDR	STANDARD DIMENSION RATIO
SECT	SECTION
SHLDR	SHOULDER
SHT	SHEET
SIM	SIMILAR
SLP	SLOPE
SLV	SLEEVE
SOLN	SOLUTION
SP	SOIL PIPE / SEWER PIPE
SPCL	SPECIAL
SPEC(S)	SPECIFICATION(S)
SPG	SPACING
SPL	SPOOL
SPRT	SUPPORT
SQ	SQUARE
SQ FT	SQUARE FOOT
SQ IN	SQUARE INCH
SQ YD	SQUARE YARD
SS	SANITARY SEWER
SST	STAINLESS STEEL
ST	STREET
STA	STATION
STD	STANDARD
STL	STEEL
STOR	STORAGE
STR	STRAIGHT
STRUCT	STRUCTURE / STRUCTURAL
SUBMG	SUBMERGED
SUCT	SUCTION
SV	SOLENOID VALVE
S/W	SIDEWALK
SWD	SIDEWATER DEPTH
SWGR	SWITCH GEAR
SYMM	SYMMETRICAL
SYS	SYSTEM
T OR TEL	TELEPHONE
T&B	TOP & BOTTOM
TAN	TANGENCY
TB	THRUST BLOCK
TBM	TEMPORARY BENCH MARK
TC	TOP OF CONCRETE / TOP OF CURB
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE / TEMPORARY
T&G	TONGUE & GROOVE
THK	THICKNESS
THRD	THREAD (ED)

THRU	THROUGH
TP	TEST PIT / TOP OF PAVEMENT / TURNING POINT
TRANS	TRANSITION
TSP	TRI-SODIUM PHOSPHATE
TST	TOP OF STEEL
TW	TOP OF WALL
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UN	UNION
UON	UNLESS OTHERWISE NOTED
USGS	UNITED STATES GEOLOGIC SURVEY
V	VENT / VOLT
VAC	VACUUM
VB	VACUUM BREAKER
VBOX	VALVE BOX
VC	VERTICAL CURVE
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VCP	VITRIFIED CLAY PIPE
VTR	VENT THROUGH ROOF
W	WATER
W/	WITH
W/O	W/O
W/W	WALL TO WALL
WD	WOOD
WF	WIDE FLANGE
WH	WATER HEATER
WI	WROUGHT IRON
WM	WATER METER
WP	WORKING POINT / WATERPROOFING
WS	WATER SERVICE
WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
WT	WEIGHT
WTP	WATER TREATMENT PLANT
WTRT	WATERTIGHT
WWF	WELDED WIRE FABRIC
WWTF	WASTEWATER TREATMENT FACILITY
WWTP	WASTEWATER TREATMENT PLANT
X SECT	CROSS SECTION
XFMR	TRANSFORMER
YD	YARD DRAIN / YARD
YH	YARD HYDRANT
YR	YEAR
ZN	ZINC

NO.	DATE	BY	REVISION

NOTICE

0 ½ 1

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MDP DESIGNED

JSD DRAWN

LLA CHECKED

REGISTERED PROFESSIONAL ENGINEER 76386 OREGON DECEMBER 29, 2006 LAEL L. ALDERMAN RENEWS 12/31/2023

consor

CITY OF PENDLETON OREGON INCORPORATED 1880

SCHEDULE A & B: CONNECTOR ROAD WATERLINES

GENERAL

ABBREVIATIONS

SHEET G-3

PROJECT NO.: 22-3530 | SCALE: AS SHOWN | DATE: JUNE 2023

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PIPE & FITTING SYMBOLS

PLANT	SCHEMATIC	
		WELDED JOINT
		FLANGED JOINT
		GROOVED END JOINT
		MECHANICAL JOINT
		PUSH-ON JOINT (RUBBER GASKET)
		FLANGED COUPLING ADAPTER
		DOUBLE BALL FLEXIBLE EXTENSION COUPLING
		FLEXIBLE COUPLING W/ THRUST RING
		90° BEND UP
		90° BEND DOWN
		TEE UP
		TEE DOWN
		LATERAL UP
		LATERAL DOWN
		CONCENTRIC REDUCER
		ECCENTRIC REDUCER
		UNION
		BLIND FLANGE
		CAP
		LONG SLEEVE
		FLEXIBLE COUPLING
		FITTING (45°)

VALVE SYMBOLS

PLANT	SCHEMATIC		VALVE NUMBER
		BUTTERFLY VALVE	V-100
		BALL VALVE	V-200
		PLUG VALVE (TOP)	V-300
		PLUG VALVE (SIDE)	V-300
		SWING CHECK VALVE	V-400
		BALL CHECK	V-401
		GATE VALVE	V-500
	K	KNIFE GATE VALVE	V-501
		NEEDLE VALVE	V-600
		GLOBE VALVE	V-700
		RELIEF VALVE	V-800
		REDUCED PRESSURE BACKFLOW PREVENTER W/ GATE VALVES	V-900
		HOSE VALVE	V-1000
		PRESSURE REDUCING VALVE	V-1100
		SOLENOID VALVE	V-1200
		HOSE BIBB	

SECTION AND DETAIL DESIGNATIONS

SECTION DESIGNATIONS

SECTION LETTER DESIGNATION

A / 2

SHEET WHERE SECTION IS SHOWN *

SECTION

SCALE:

A / 2

SECTION LETTER DESIGNATION

SHEET FROM WHICH SECTION IS TAKEN *

DETAIL DESIGNATIONS

DETAIL

SCALE:

2 / 2

DETAIL NUMBER

SHEET FROM WHICH DETAIL IS TAKEN *

DETAIL CALL OUT

** DETAIL NUMBER

C010

STANDARD DETAIL CALL OUT

* NOTE: IF PLAN AND SECTION FOR DETAIL CALL-OUT AND DETAIL ARE SHOWN ON THE SAME DRAWING, DRAWING NUMBER IS REPLACED WITH A DASH.
** NOTE: STANDARD DETAILS ARE ON DETAIL SHEETS.

EXAMPLE PIPE CALL OUT

PIPE SIZE FLOW STREAM

8"-LPA

EXAMPLE VALVE CALL OUT

VALVE SIZE VALVE NUMBER

8" V-100

FLOW STREAM ABBREVIATIONS

S	GRAVITY SANITY SEWER
SS	SANITARY SEWER SERVICE
FM	PRESSURIZED SANTIARY SEWER
W	WATER WS WATER SERVICE

EQUIPMENT CALL OUT

CORRESPONDS TO P&ID

MIX-542

PIPE MATERIAL TRANSITION

PIPE MATERIAL THIS SIDE — SS / PE — PIPE MATERIAL THIS SIDE

PICTURE DETAILS

X — DENOTES PICTURE NUMBER AND DIRECTION OF PHOTO.

PLAN AND PROFILE SYMBOLS

COMPACTED NATIVE TRENCH BACKFILL AND NATIVE SURFACE RESTORATION	N
COMPACTED GRANULAR TRENCH BACKFILL AND GRANULAR SURFACE RESTORATION	GR

TOPOGRAPHIC LEGEND

	EXIST	PROPOSED
WATERLINE	10"W	12"DI W
ELECTRICITY	E	E
GAS	4"G	4"G
TELEPHONE/TELEMETRY	T	T
CABLE TELEVISION	CATV	CATV
SANITARY SEWER LINE	8"SS	8"SS
SANITARY SEWER FORCE MAIN	6"FM	6"FM
STORM DRAIN	8"SD	8"SD
CULVERT	18"D	18"D
OVERHEAD ELECTRICITY	OVHD E	
ABANDON PIPE		
DRAINAGE DITCH		
BARBWIRE FENCE		
CHAIN LINK FENCE		
TEMPORARY SILT FENCE		
GUARDRAIL		
TREE/BUSH LINE		
CENTERLINE		
EASEMENT/PROPERTY LINE		
RIGHT-OF-WAY		
EDGE OF PAVEMENT/AC		
EDGE OF GRAVEL		
CURB		
SIDEWALK	S/W	
STRUCTURE OR FACILITY		
CONTOUR MINOR		
CONTOUR MAJOR	200	200
MANHOLE		
CLEAN-OUT		
CATCH BASIN/FIELD INLET		
THRUST BLOCK		
VALVE		
AIR INJECTION ASSEMBLY		
BLOW-OFF ASSEMBLY		
AIR RELEASE ASSEMBLY		
FIRE HYDRANT ASSEMBLY		
WATER METER		
PULL BOX/JUNCTION BOX		
UTILITY POLE		
GUY WIRE		
LIGHT POST		
MAILBOX		
SIGN		
BENCHMARK		
TREE DECIDUOUS		
TREE CONIFEROUS		
TREE TO BE REMOVED		
SURFACE ELEVATION	+ 176.63	+ 176.63

NO.	DATE	BY	REVISION

NOTICE

0 ½ 1

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MDP DESIGNED

JSD DRAWN

LLA CHECKED

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consor

CITY OF PENDLETON — INCORPORATED 1880 — OREGON

SCHEDULE A & B: CONNECTOR ROAD WATERLINES

GENERAL

SYMBOLS AND LEGEND

PROJECT NO.: 22-3530 | SCALE: AS SHOWN | DATE: JUNE 2023

SHEET G-4

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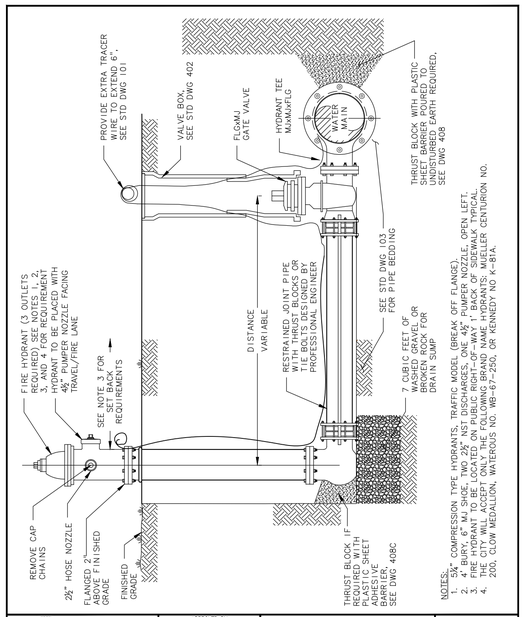
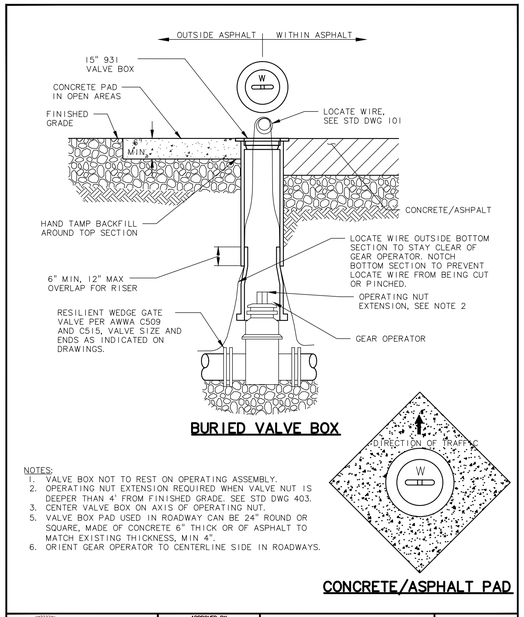


NOTES:
1. 5¼" COMPRESSION TYPE HYDRANTS, TRAFFIC MODEL (BREAK OFF FLANGE).
2. 4" BURY, 6" MJ SHOE, TWO 2½" NST DISCHARGES, ONE 4½" PUMPER NOZZLE, OPEN LEFT.
3. FIRE HYDRANT TO BE LOCATED ON PUBLIC RIGHT-OF-WAY 1' BACK OF SIDEWALK TYPICAL.
4. 200, CLOW MEDALLION, WATEROUS NO. WB-67-250, OR KENNEDY NO K-81A.

CITY OF PENDLETON OREGON	ENGINEERING DEPARTMENT 500 S.W. DORION AVENUE PENDLETON, OREGON 97801 VOICE: (541) 966-0203 FAX: (541) 966-0251	APPROVED BY	FEBRUARY 2019 APPROVAL DATE	REVISED DATE	HYDRANT ASSEMBLY	NO SCALE DWG NO. 400

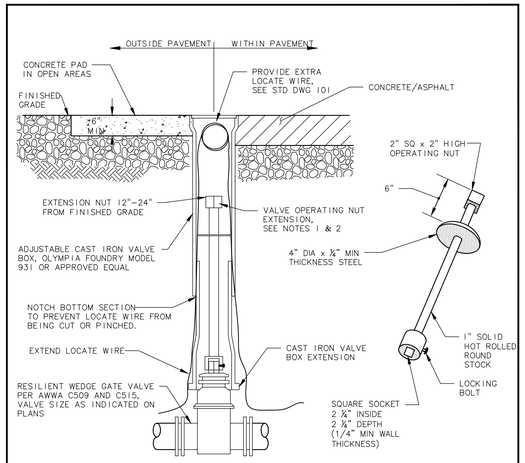


BURIED VALVE BOX

NOTES:
1. VALVE BOX NOT TO REST ON OPERATING ASSEMBLY.
2. OPERATING NUT EXTENSION REQUIRED WHEN VALVE NUT IS DEEPER THAN 4' FROM FINISHED GRADE. SEE STD DWG 403.
3. CENTER VALVE BOX ON AXIS OF OPERATING NUT.
5. VALVE BOX PAD USED IN ROADWAY CAN BE 24" ROUND OR SQUARE, MADE OF CONCRETE 6" THICK OR OF ASPHALT TO MATCH EXISTING THICKNESS, MIN 4".
6. ORIENT GEAR OPERATOR TO CENTERLINE SIDE IN ROADWAYS.

CONCRETE/ASPHALT PAD

CITY OF PENDLETON OREGON	ENGINEERING DEPARTMENT 500 S.W. DORION AVENUE PENDLETON, OREGON 97801 VOICE: (541) 966-0203 FAX: (541) 966-0251	APPROVED BY	FEBRUARY 2019 APPROVAL DATE	REVISED DATE	BURIED VALVE AND BOX	NO SCALE DWG NO. 402

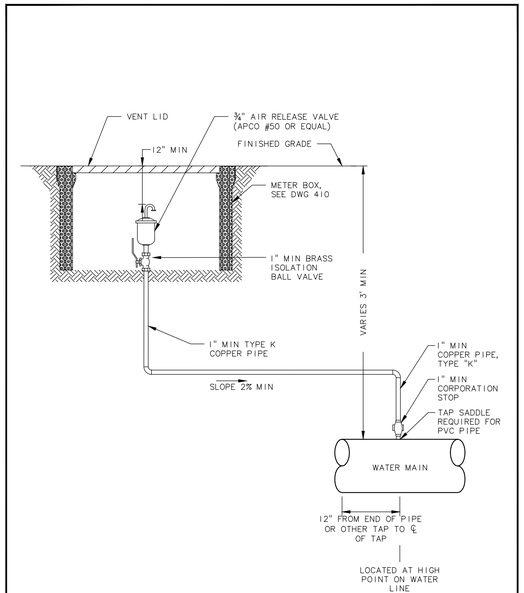


VALVE BOX AND EXTENSION

VALVE OPERATING NUT EXTENSION

NOTES:
1. VALVE OPERATING NUT EXTENSIONS ARE REQUIRED WHEN THE VALVE NUT IS MORE THAN 4' BELOW FINISHED GRADE.
2. ALL VALVE OPERATING NUT EXTENSIONS ARE TO BE MADE OF STEEL, SIZED AS NOTED, AND PAINTED WITH 2 COATS OF METAL PAINT.
3. MUST CONFORM TO ALL NOTES ON STD DWG 402.

CITY OF PENDLETON OREGON	ENGINEERING DEPARTMENT 500 S.W. DORION AVENUE PENDLETON, OREGON 97801 VOICE: (541) 966-0203 FAX: (541) 966-0251	APPROVED BY	FEBRUARY 2019 APPROVAL DATE	REVISED DATE	VALVE OPERATING NUT AND EXTENSION	NO SCALE DWG NO. 403



CITY OF PENDLETON OREGON	ENGINEERING DEPARTMENT 500 S.W. DORION AVENUE PENDLETON, OREGON 97801 VOICE: (541) 966-0203 FAX: (541) 966-0251	APPROVED BY	FEBRUARY 2019 APPROVAL DATE	REVISED DATE	TYPICAL AIR RELEASE VALVE ASSEMBLY OUT OF STREET	NO SCALE DWG NO. 405

NO.	DATE	BY	REVISION

NOTICE
0 ½ 1
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CITY OF PENDLETON INCORPORATED 1880 OREGON

SCHEDULE A & B: CONNECTOR ROAD WATERLINES

GENERAL

CITY OF PENDLETON STANDARD DETAILS - 1

PROJECT NO.: 22-3530 | SCALE: AS SHOWN | DATE: JUNE 2023

SHEET GD-1

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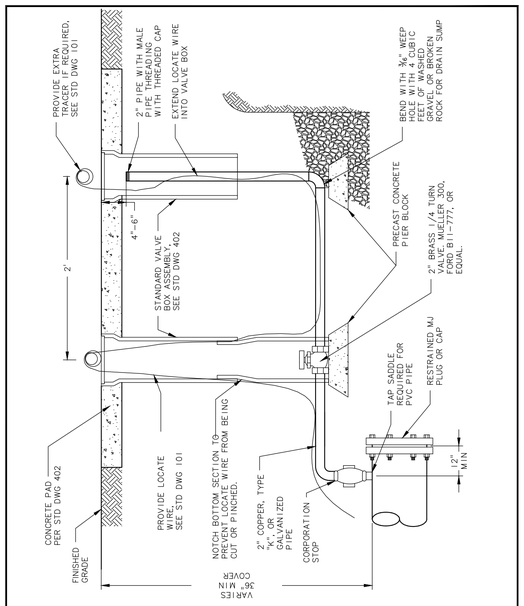
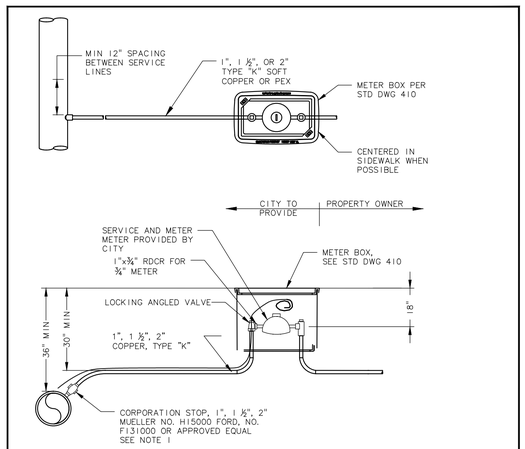
G:\pdx_projects\22\3530 - Pendleton, City Of, Or - To23 Connector Road Waterlines\CAD\Sheets\22-3530-OR-G.dwg GD-1 4/19/2023 4:03 PM TAYLOR.SPENCER 23.0s (LMS Tech)



CITY OF PENDLETON OREGON	ENGINEERING DEPARTMENT 500 S.W. DORION AVENUE PENDLETON, OREGON 97801 VOICE: (541) 966-0203 FAX: (541) 966-0251	APPROVED BY	BLOW-OFF ASSEMBLY	NO SCALE
		FEBRUARY 2019 APPROVAL DATE		DWG NO. 404
		REVISED DATE		

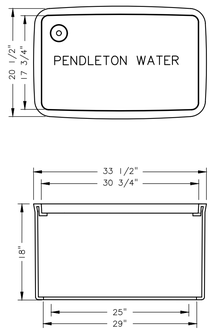


TYPICAL SERVICE

NOTES:
1. SADDLE TEE SHALL BE USED ON PVC MAIN PIPE.
2. INSULATE METER WITH MIN R13 INSULATION WITH ADEQUATE WATER PROOFING.
3. METER TO BE INSTALLED IN SIDEWALK UNLESS OTHERWISE APPROVED.

DEVELOPER/CUSTOMER NOTES:
1. IF PRESSURE IS GREATER THAN 80 PSI, A PRESSURE REDUCING VALVE IS REQUIRED TO BE INSTALLED FOLLOWING THE METER.
2. PROPERTY OWNER TO PROVIDE SHUT OFF VALVE AFTER METER.
3. ALL SERVICES SUPPLYING IRRIGATION MUST HAVE AN APPROVED BACK FLOW DEVICE.
4. SUBDIVISION: CONTRACTOR IS TO PROVIDE TRENCH AND BACKFILL FOR CITY CREWS TO INSTALL SADDLE TEE, CORP. STOP, PIPING, METER, AND BOX.

CITY OF PENDLETON OREGON	ENGINEERING DEPARTMENT 500 S.W. DORION AVENUE PENDLETON, OREGON 97801 VOICE: (541) 966-0203 FAX: (541) 966-0251	APPROVED BY	TYPICAL SERVICE LATERAL INSTALLATION	NO SCALE
		FEBRUARY 2019 APPROVAL DATE		DWG NO. 409
		REVISED DATE		



18"x30"x18"

NOTES:
1. ALL METER BOX INSTALLATIONS SHALL BE IN SIDEWALK OR PAVED AREA UNLESS APPROVED BY CITY.
2. ALL ¾", 1", 1½", AND 2" METER BOX INSTALLATIONS SHALL BE ARMORCAST WATER AA66001640PCx18" METER BOX.
3. METER BOX SHALL HAVE AMORCAST AA6001947TH LID.

CITY OF PENDLETON OREGON	ENGINEERING DEPARTMENT 500 S.W. DORION AVENUE PENDLETON, OREGON 97801 VOICE: (541) 966-0203 FAX: (541) 966-0251	APPROVED BY	WATER METER BOX	NO SCALE
		FEBRUARY 2019 APPROVAL DATE		DWG NO. 410
		REVISED DATE		

NO.	DATE	BY	REVISION

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0 ½ 1
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REGISTERED PROFESSIONAL ENGINEER 76386 OREGON DECEMBER 29, 2020 LAEL L. ALDERMAN
RENEWS 12/31/2023

consor

CITY OF PENDLETON INCORPORATED 1880 OREGON

SCHEDULE A & B: CONNECTOR ROAD WATERLINES

GENERAL

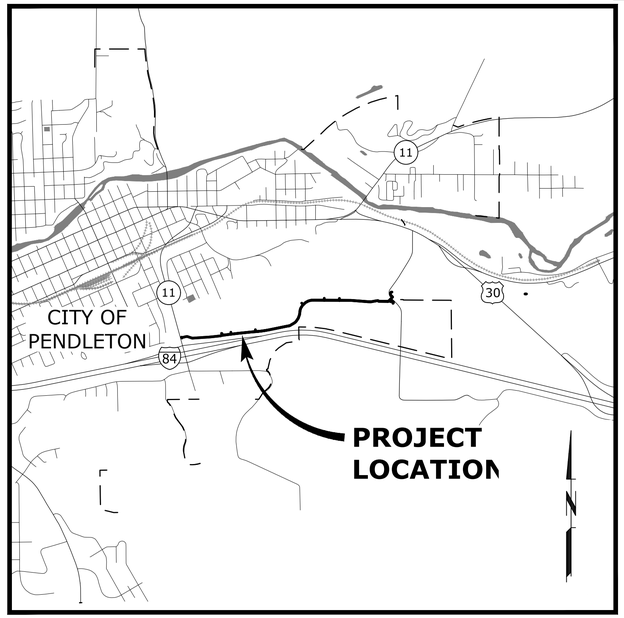
CITY OF PENDLETON STANDARD DETAILS - 2

PROJECT NO.: 22-3530 | SCALE: AS SHOWN | DATE: JUNE 2023

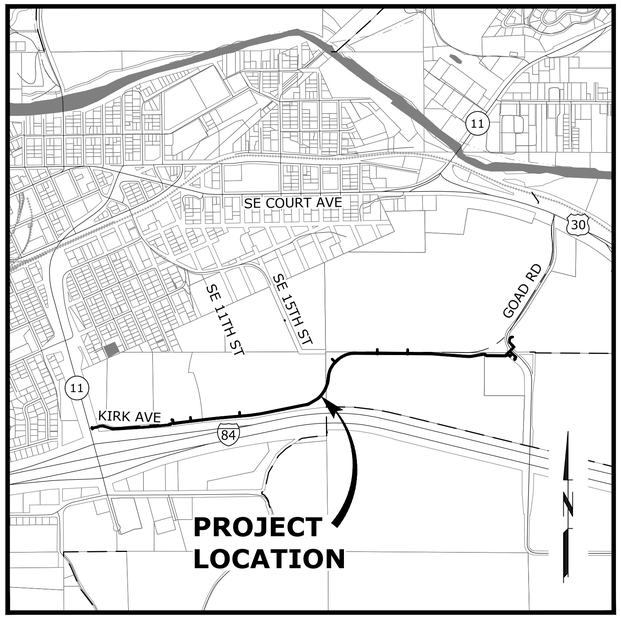
SHEET GD-2

G:\pdx_projects\22\3530 - Pendleton, City Of, Or - To23 Connector Road Waterlines\CAD\Sheets\22-3530-OR-G.dwg GD-2 4/19/2023 4:03 PM TAYLOR.SPENCER 23.0s (LMS Tech)

ESC PLAN FOR 1200-C SITES



LOCATION MAP
SCALE: 1"=2,000'



VICINITY MAP
SCALE: 1"=1,000'

SHEET INDEX

EROSION AND SEDIMENT CONTROL PLANS

RAIN GAUGE:

EASTERN OREGON REGIONAL AIRPORT AT PENDLETON AT (KPDT), NOAA RAIN GAUGE
HYPERLINK: HTTPS://W1.WEATHER.GOV/DATA/OBHISTORY/KPDT.HTML

POLLUTANT-GENERATING ACTIVITIES:

1. EARTHWORK AND TRENCHING (ENTIRE PROJECT SITE)
2. CHLORINATION (ALL PIPE LINES)
5. PAVING (DRIVEWAY, PARKING LOT, ROW EXPANSION)

PROJECT LOCATIONS:

ALONG KIRK RD FOLLOWING THE UGB WITHIN CITY RIGHT-OF-WAY TOWARD GOAD RD.

PROPERTY DESCRIPTIONS:

SCHEDULE A – TRANSMISSION MAIN – WITHIN CITY OF PENDLETON ROADWAYS AND EASEMENTS IN SECTION 5 OF TOWNSHIP 2 NORTH, RANGE 32 EAST.

NARRATIVE DESCRIPTIONS:

EXISTING SITE CONDITIONS

* UNDEVELOPED SITE; CITY OF PENDLETON OWNED LIGHT INDUSTRIAL; UMATILLA COUNTY ROADWAYS AND RIGHTS-OF-WAY

DEVELOPED CONDITIONS

* ROADWAY SUB GRADE FOR FUTURE ROADWAY CONSTRUCTION

NATURE OF CONSTRUCTION ACTIVITY AND ESTIMATED TIME TABLE

* CLEARING (OCTOBER 2023)
* MASS GRADING (OCTOBER 2023)
* UTILITY INSTALLATION (OCTOBER 2023 – JANUARY 2024)
* STREET CONSTRUCTION (NOT APPLICABLE)
* FINAL STABILIZATION (NOT APPLICABLE)

TOTAL SITE AREA:
APPROXIMATELY 20 ACRES

TOTAL DISTURBED AREA:
APPROXIMATELY 16 ACRES

SITE SOIL CLASSIFICATION
LICKSKILLET VERY STONY LOAM, 7 TO 40 PERCENT SLOPES; NANSENE SILT LOAM, 35 TO 75 PERCENT SLOPES, PILOT ROCK SILT LOAM, 1 TO 20 PERCENT SLOPES; WALLA WALLA SILT LOAM, 7 TO 40 PERCENT SLOPES

ATTENTION EXCAVATORS:

OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL 503-246-6699.

* HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE INSPECTOR TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS. (SCHEDULE A.8.C.I.(3))
* ALL INSPECTIONS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-C PERMIT REQUIREMENTS.
* INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-C PERMIT REQUIREMENTS.
* RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. DURING INACTIVE PERIODS OF GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS, RETAIN THE ESCP AT THE CONSTRUCTION SITE OR AT ANOTHER LOCATION. (SCHEDULE B.2.A)

STANDARD EROSION AND SEDIMENT CONTROL PLAN DRAWING NOTES:

1. ONCE KNOWN, INCLUDE A LIST OF ALL CONTRACTORS THAT WILL ENGAGE IN CONSTRUCTION ACTIVITIES ON SITE, AND THE AREAS OF THE SITE WHERE THE CONTRACTOR(S) WILL ENGAGE IN CONSTRUCTION ACTIVITIES. REVISE THE LIST AS APPROPRIATE UNTIL PERMIT COVERAGE IS TERMINATED (SECTION 4.4.C.I). IN ADDITION, INCLUDE A LIST OF ALL PERSONNEL (BY NAME AND POSITION) THAT ARE RESPONSIBLE FOR THE DESIGN, INSTALLATION AND MAINTENANCE OF STORMWATER CONTROL MEASURES (E.G. ESCP DEVELOPER, BMP INSTALLER (SEE SECTION 4.10), AS WELL AS THEIR INDIVIDUAL RESPONSIBILITIES. (SECTION 4.4.C.II)
2. VISUAL MONITORING INSPECTION REPORTS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-C PERMIT REQUIREMENTS. (SECTION 6.5)
3. INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-C PERMIT REQUIREMENTS. (SECTION 6.5.6)
4. RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. (SECTION 4.7)
5. THE PERMIT REGISTRANT MUST IMPLEMENT THE ESCP. FAILURE TO IMPLEMENT ANY OF THE CONTROL MEASURES OR PRACTICES DESCRIBED IN THE ESCP IS A VIOLATION OF THE PERMIT. (SECTIONS 4 AND 4.11)
6. THE ESCP MUST BE ACCURATE AND REFLECT SITE CONDITIONS. (SECTION 4.8)
7. SUBMISSION OF ALL ESCP REVISIONS IS NOT REQUIRED. SUBMITTAL OF THE ESCP REVISIONS IS ONLY UNDER SPECIFIC CONDITIONS. SUBMIT ALL NECESSARY REVISION TO DEQ OR AGENT WITHIN 10 DAYS. (SECTION 4.9)
8. SEQUENCE CLEARING AND GRADING TO THE MAXIMUM EXTENT PRACTICAL TO PREVENT EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION. (SECTION 2.2.2)
9. CREATE SMOOTH SURFACES BETWEEN SOIL SURFACE AND EROSION AND SEDIMENT CONTROLS TO PREVENT STORMWATER FROM BYPASSING CONTROLS AND PONDING. (SECTION 2.2.3)
10. IDENTIFY, MARK, AND PROTECT (BY CONSTRUCTION FENCING OR OTHER MEANS) CRITICAL RIPARIAN AREAS AND VEGETATION INCLUDING IMPORTANT TREES AND ASSOCIATED ROOTING ZONES, AND VEGETATION AREAS TO BE PRESERVED. IDENTIFY VEGETATIVE BUFFER ZONES BETWEEN THE SITE AND SENSITIVE AREAS (E.G., WETLANDS), AND OTHER AREAS TO BE PRESERVED, ESPECIALLY IN PERIMETER AREAS. (SECTION 2.2.1)
11. PRESERVE EXISTING VEGETATION WHEN PRACTICAL AND RE-VEGETATE OPEN AREAS. RE-VEGETATE OPEN AREAS WHEN PRACTICABLE BEFORE AND AFTER GRADING OR CONSTRUCTION. IDENTIFY THE TYPE OF VEGETATIVE SEED MIX USED. (SECTION 2.2.5)
12. MAINTAIN AND DELINEATE ANY EXISTING NATURAL BUFFER WITHIN THE 50-FEET OF WATERS OF THE STATE. (SECTION 2.2.4)
13. INSTALL PERIMETER SEDIMENT CONTROL, INCLUDING STORM DRAIN INLET PROTECTION AS WELL AS ALL SEDIMENT BASINS, TRAPS, AND BARRIERS PRIOR TO LAND DISTURBANCE. (SECTIONS 2.1.3)
14. CONTROL BOTH PEAK FLOW RATES AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS AND DOWNSTREAM CHANNELS AND STREAM BANKS. (SECTIONS 2.1.1. AND 2.2.16)
15. CONTROL SEDIMENT AS NEEDED ALONG THE SITE PERIMETER AND AT ALL OPERATIONAL INTERNAL STORM DRAIN INLETS AT ALL TIMES DURING CONSTRUCTION, BOTH INTERNALLY AND AT THE SITE BOUNDARY. (SECTIONS 2.2.6 AND 2.2.1.3)
16. ESTABLISH CONCRETE TRUCK AND OTHER CONCRETE EQUIPMENT WASHOUT AREAS BEFORE BEGINNING CONCRETE WORK. (SECTION 2.2.14)
17. APPLY TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS AS GRADING PROGRESSES. TEMPORARY OR PERMANENT STABILIZATIONS MEASURES ARE NOT REQUIRED FOR AREAS THAT ARE INTENDED TO BE LEFT UNVEGETATED, SUCH AS DIRT ACCESS ROADS OR UTILITY POLE PADS.(SECTIONS 2.2.20 AND 2.2.21)
18. ESTABLISH MATERIAL AND WASTE STORAGE AREAS, AND OTHER NON-STORMWATER CONTROLS. (SECTION 2.3.7)
19. KEEP WASTE CONTAINER LIDS CLOSED WHEN NOT IN USE AND CLOSE LIDS AT THE END OF THE BUSINESS DAY FOR THOSE CONTAINERS THAT ARE ACTIVELY USED THROUGHOUT THE DAY. FOR WASTE CONTAINERS THAT DO NOT HAVE LIDS, PROVIDE EITHER (1) COVER (E.G., A TARP, PLASTIC SHEETING, TEMPORARY ROOF) TO PREVENT EXPOSURE OF WASTES TO PRECIPITATION, OR (2) A SIMILARLY EFFECTIVE MEANS DESIGNED TO PREVENT THE DISCHARGE OF POLLUTANTS (E.G., SECONDARY CONTAINMENT). (SECTION 2.3.7)
20. PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADS USING BMPS SUCH AS: CONSTRUCTION ENTRANCE, GRAVELED (OR PAVED) EXITS AND PARKING AREAS, GRAVEL ALL UNPAVED ROADS LOCATED ONSITE, OR USE AN EXIT TIRE WASH. THESE BMPS MUST BE IN PLACE PRIOR TO LAND- DISTURBING ACTIVITIES. (SECTION 2.2.7)
21. WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER USE WATER-TIGHT TRUCKS OR DRAIN LOADS ON SITE. (SECTION 2.2.7.F)
22. CONTROL PROHIBITED DISCHARGES FROM LEAVING THE CONSTRUCTION SITE, I.E., CONCRETE WASH-OUT, WASTEWATER FROM CLEANOUT OF STUCCO, PAINT AND CURING COMPOUNDS. (SECTIONS 1.5 AND 2.3.9)
23. ENSURE THAT STEEP SLOPE AREAS WHERE CONSTRUCTION ACTIVITIES ARE NOT OCCURRING ARE NOT DISTURBED. (SECTION 2.2.10)
24. PREVENT SOIL COMPACTION IN AREAS WHERE POST-CONSTRUCTION INFILTRATION FACILITIES ARE TO BE INSTALLED. (SECTION 2.2.12)
25. USE BMPS TO PREVENT OR MINIMIZE STORMWATER EXPOSURE TO POLLUTANTS FROM SPILLS; VEHICLE AND EQUIPMENT FUELING, MAINTENANCE, AND STORAGE; OTHER CLEANING AND MAINTENANCE ACTIVITIES; AND WASTE HANDLING ACTIVITIES. THESE POLLUTANTS INCLUDE FUEL, HYDRAULIC FLUID, AND OTHER OILS FROM VEHICLES AND MACHINERY, AS WELL AS DEBRIS, FERTILIZER, PESTICIDES AND HERBICIDES, PAINTS, SOLVENTS, CURING COMPOUNDS AND ADHESIVES FROM CONSTRUCTION OPERATIONS. (SECTIONS 2.2.15 AND 2.3)
26. PROVIDE PLANS FOR SEDIMENTATION BASINS THAT HAVE BEEN DESIGNED PER SECTION 2.2.17 AND STAMPED BY AN OREGON PROFESSIONAL ENGINEER. (SEE SECTION 2.2.17.A)
27. IF ENGINEERED SOILS ARE USED ON SITE, A SEDIMENTATION BASIN/IMPOUNDMENT MUST BE INSTALLED. (SEE SECTIONS 2.2.17 AND 2.2.18)
28. PROVIDE A DEWATERING PLAN FOR ACCUMULATED WATER FROM PRECIPITATION AND UNCONTAMINATED GROUNDWATER SEEPAGE DUE TO SHALLOW EXCAVATION ACTIVITIES. (SEE SECTION 2.4)
29. IMPLEMENT THE FOLLOWING BMPS WHEN APPLICABLE: WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURES, EMPLOYEE TRAINING ON SPILL PREVENTION AND PROPER DISPOSAL PROCEDURES, SPILL KITS IN ALL VEHICLES, REGULAR MAINTENANCE SCHEDULE FOR VEHICLES AND MACHINERY, MATERIAL DELIVERY AND STORAGE CONTROLS, TRAINING AND SIGNAGE, AND COVERED STORAGE AREAS FOR WASTE AND SUPPLIES. (SECTION 2.3)
30. USE WATER, SOIL-BINDING AGENT OR OTHER DUST CONTROL TECHNIQUE AS NEEDED TO AVOID WIND-BLOWN SOIL. (SECTION 2.2.9)
31. THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS TO MINIMIZE NUTRIENT RELEASES TO SURFACE WATERS. EXERCISE CAUTION WHEN USING TIME-RELEASE FERTILIZERS WITHIN ANY WATERWAY RIPARIAN ZONE. (SECTION 2.3.5)
32. IF AN ACTIVE TREATMENT SYSTEM (FOR EXAMPLE, ELECTRO-COAGULATION, FLOCCULATION, FILTRATION, ETC.) FOR SEDIMENT OR OTHER POLLUTANT REMOVAL IS EMPLOYED, SUBMIT AN OPERATION AND MAINTENANCE PLAN (INCLUDING SYSTEM SCHEMATIC, LOCATION OF SYSTEM, LOCATION OF INLET, LOCATION OF DISCHARGE, DISCHARGE DISPERSION DEVICE DESIGN, AND A SAMPLING PLAN AND FREQUENCY) BEFORE OPERATING THE TREATMENT SYSTEM. OBTAIN ENVIRONMENTAL MANAGEMENT PLAN APPROVAL FROM DEQ BEFORE OPERATING THE TREATMENT SYSTEM. OPERATE AND MAINTAIN THE TREATMENT SYSTEM ACCORDING TO MANUFACTURER'S SPECIFICATIONS. (SECTION 1.2.9)
33. TEMPORARILY STABILIZE SOILS AT THE END OF THE SHIFT BEFORE HOLIDAYS AND WEEKENDS, IF NEEDED. THE REGISTRANT IS RESPONSIBLE FOR ENSURING THAT SOILS ARE STABLE DURING RAIN EVENTS AT ALL TIMES OF THE YEAR. (SECTION 2.2)
34. AS NEEDED BASED ON WEATHER CONDITIONS, AT THE END OF EACH WORKDAY SOIL STOCKPILES MUST BE STABILIZED OR COVERED, OR OTHER BMPS MUST BE IMPLEMENTED TO PREVENT DISCHARGES TO SURFACE WATERS OR CONVEYANCE SYSTEMS LEADING TO SURFACE WATERS. (SECTION 2.2.8)
35. SEDIMENT FENCE: REMOVE TRAPPED SEDIMENT BEFORE IT REACHES ONE THIRD OF THE ABOVE GROUND FENCE HEIGHT AND BEFORE FENCE REMOVAL. (SECTION 2.1.5.B)
36. OTHER SEDIMENT BARRIERS (SUCH AS BIOBAGS): REMOVE SEDIMENT BEFORE IT REACHES TWO INCHES DEPTH ABOVE GROUND HEIGHT AND BEFORE BMP REMOVAL. (SECTION 2.1.5.C)
37. CATCH BASINS: CLEAN BEFORE RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT. SEDIMENT BASINS AND SEDIMENT TRAPS: REMOVE TRAPPED SEDIMENTS BEFORE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT AND AT COMPLETION OF PROJECT. (SECTION 2.1.5.D)
38. WITHIN 24 HOURS, SIGNIFICANT SEDIMENT THAT HAS LEFT THE CONSTRUCTION SITE, MUST BE REMEDIATED. INVESTIGATE THE CAUSE OF THE SEDIMENT RELEASE AND IMPLEMENT STEPS TO PREVENT A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN-UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DEPARTMENT OF STATE LANDS REQUIRED TIMEFRAME. (SECTION 2.2.19.A)
39. THE INTENTIONAL WASHING OF SEDIMENT INTO STORM SEWERS OR DRAINAGE WAYS MUST NOT OCCUR. VACUUMING OR DRY SWEEPING AND MATERIAL PICKUP MUST BE USED TO CLEANUP RELEASED SEDIMENTS. (SECTION 2.2.19)
40. DOCUMENT ANY PORTION(S) OF THE SITE WHERE LAND DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED OR WILL BE TEMPORARILY INACTIVE FOR 14 OR MORE CALENDAR DAYS. (SECTION 6.5.F.)
41. PROVIDE TEMPORARY STABILIZATION FOR THAT PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITIES CEASE FOR 14 DAYS OR MORE WITH A COVERING OF BLOWN STRAW AND A TACKIFIER, LOOSE STRAW, OR AN ADEQUATE COVERING OF COMPOST MULCH UNTIL WORK RESUMES ON THAT PORTION OF THE SITE. (SECTION 2.2.20)
42. DO NOT REMOVE TEMPORARY SEDIMENT CONTROL PRACTICES UNTIL PERMANENT VEGETATION OR OTHER COVER OF EXPOSED AREAS IS ESTABLISHED. ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED, ALL TEMPORARY EROSION CONTROLS AND RETAINED MOVED AND DISPOSED OF PROPERLY, UNLESS NEEDED FOR LONG TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE. (SECTION 2.2.21)

BMP MATRIX FOR CONSTRUCTION PHASES:

REFER TO DEQ GUIDANCE MANUAL FOR A COMPREHENSIVE LIST OF AVAILABLE BMP'S.

YEAR	2022				
PHASE/BMP	CLEARING	MASS GRADING	UTILITY INSTALLATION	VERTICAL CONSTRUCTION	FINAL STABILIZATION
EROSION PREVENTION					
BUFFER ZONE (FROM RAVINE)	X	X	X	X	
GROUND COVER	X	X	X		
PLASTIC SHEETING	X	X	X		
DUST CONTROL	X	X	X		
TEMPORARY STABILIZATION		X	X	X	
PERMANENT STABILIZATION					X
SEDIMENT CONTROL					
SEDIMENT FENCE (PERIMETER)	X				
SEDIMENT FENCE (INTERIOR)	X				
STRAW WATTLES	X	X	X	X	
INLET PROTECTION	X	X	X	X	
DEWATERING (GENERAL)		X	X		
RUN-OFF CONTROL					
CONSTRUCTION ENTRANCE	X	X	X		
EXISTING OUTLET PROTECTION	X	X	X	X	
NEW OUTLET PROTECTION		X	X	X	
EXISTING CURB INLET CHECK DAMS	X	X	X	X	
POLLUTION PREVENTION					
HAZ WASTE MGMT				X	
SPILL KIT ON-SITE				X	
CONCRETE WASH OUT AREA	X	X	X	X	

RATIONALE STATEMENT:

A COMPREHENSIVE LIST OF AVAILABLE BEST MANAGEMENT PRACTICES (BMP) OPTIONS BASED ON DEQ's GUIDANCE MANUAL HAS BEEN REVIEWED TO COMPLETE THIS EROSION AND SEDIMENT CONTROL PLAN. SOME OF THE ABOVE LISTED BMP's WERE NOT CHOSEN BECAUSE THEY WERE DETERMINED TO NOT EFFECTIVELY MANAGE EROSION PREVENTION AND SEDIMENT CONTROL FOR THIS PROJECT BASED ON SPECIFIC SITE CONDITIONS, INCLUDING SOIL CONDITIONS TOPOGRAPHIC CONSTRAINTS, ACCESSIBILITY TO THE SITE, AND OTHER RELATED CONDITIONS, AS THE PROJECT PROGRESSES AND THERE IS A NEED TO REVISE THE ESC PLAN, AN ACTION PLAN WILL BE SUBMITTED.

INITIAL

PERMITTEE'S SITE INSPECTOR: _____

COMPANY/AGENCY:
PHONE:
FAX:
E-MAIL:

THE PERMITTEE IS REQUIRED TO MEET ALL THE CONDITIONS OF THE 1200C PERMIT. THIS ESCP AND GENERAL CONDITIONS HAVE BEEN DEVELOPED TO FACILITATE COMPLIANCE WITH THE 1200C PERMIT REQUIREMENTS. IN CASES OF DISCREPANCIES OR OMISSIONS, THE 1200C PERMIT REQUIREMENTS SUPERCEDE REQUIREMENTS OF THIS PLAN.

OWNER/SURVEYOR:

CITY OF PENDLETON,
DEPT OF PUBLIC WORKS
500 SW DORIAN AVENUE
PENDLETON, OR 97801
CONTACT: BOB PATTERSON, P.E.,
CITY PUBLIC WORKS MANAGER
PHONE: (541) 966-0202

DESIGN ENGINEER:

CONSOR NORTH AMERICA, INC
ONE SW COLUMBIA STREET, SUITE
1700 PORTLAND, OREGON 97204
CONTACT: LAEL ALDERMAN, P.E.
PHONE: (503) 225-9010
FAX: (503) 225-9022

SITE CONTRACTOR:

XXXX
XXXXXX
XXXX
XXXX

INSPECTION FREQUENCY:

SITE CONDITION	MINIMUM FREQUENCY
1. ACTIVE PERIOD	ON INITIAL DATE THAT LAND DISTRURBANCE ACTIVITIES COMMENCE. WITHIN 24 HOURS OF ANY STORM EVENT, INCLUDING RUNOFF FROM SNOW MELT, THAT RESULTS IN DISCHARGE FROM SITE. AT LEAST ONCE EVERY 14 DAYS, REGARDLESS OF WHETHER STORMWATER RUNOFF IS OCCURING.
2. INACTRIVE PERIODS GREATER THAN FOURTEEN (14) DAYS	THE INSPECTOR MAY REDUCE THE FREQUENCY OF INSPECTIONS IN ANY AREA OF THE SITE WHERE THE STABILIZATION STEPS IN SECTION 2.2.20 HAVE BEEN COMPLETED TO TWICE PER MONTH FOR THE FIRST MONTH, NO LESS THAN 14 CALENDAR DAYS APART, THEN ONCE PER MONTH.
3. PERIODS DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER	IF SAFE, ACCESSIBLE AND PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT DISCHARGE POINT OR DOWNSTREAM LOCATION OF THE RECEIVING WATERBODY.
4. PERIODS DURING WHICH CONSTRUCTION ACTIVITIES ARE SUSPENDED AND RUNOFF IS UNLIKELY DUE TO FROZEN CONDITIONS.	VISUAL MONITORING INSPECTIONS MAY BE TEMPORARILY SUSPENDED. IMMEDIATELY RESUME MONITORING UPON THAWING, OR WHEN WEATHER CONDITIONS MAKE DISCHARGES LIKELY.
5. PERIODS DURING WHEN CONSTRUCTION ACTIVITIES ARE CONDUCTED AND RUNOFF IS UNLIKELY DURING FROZEN CONDITIONS.	VISUAL MONITORING INSPECTIONS MAY BE REDUCED TO ONCE A MONTH. IMMEDIATELY RESUME MONITORING UPON THAWING, OR WHEN WEATHER CONDITIONS MAKE DISCHARGES LIKELY.

NO.	DATE	BY	REVISION

NOTICE
0 ½ 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

MDP DESIGNED
JSD DRAWN
LLA CHECKED

REGISTERED PROFESSIONAL ENGINEER 76386 OREGON DECEMBER 29, 2009 LAEL L. ALDERMAN RENEWS 12/31/2023

consor

CITY OF PENDLETON INCORPORATED 1880 OREGON

SCHEDULE A & B: CONNECTOR ROAD WATERLINES

EROSION AND SEDIMENT CONTROL

EROSION AND SEDIMENT CONTROL PLAN COVER SHEET

PROJECT NO.: 22-3530 | SCALE: AS SHOWN | DATE: JUNE 2023

SHEET
ESC-1
7 of 28

G:\pdx_projects\22\3530 - Pendleton, City Of, Or - To23 Connector Road Waterlines\CAD\Sheets\22-3530-OR-ESC.dwg ESC-1 6/23/2023 9:23 AM TAYLOR.SPENCER 23.0s (LMS Tech)

EROSION AND SEDIMENT CONTROL BMP IMPLEMENTATION:

1. ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC). MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

2. "STOCK PILE AREA" SHALL BE DESIGNATED PRIOR TO EXCAVATION CUT ACTIVITIES. ALL EXCAVATED MATERIALS SHALL BE HAULED OFFSITE.

3. ALL "SEDIMENT BARRIERS (TO BE INSTALLED AFTER GRADING)" SHALL BE INSTALLED IMMEDIATELY FOLLOWING ESTABLISHMENT OF FINISHED GRADE AS SHOWN ON THESE PLANS.

4. LONG TERM SLOPE STABILIZATION MEASURES "INCLUDING SEEDING, JUTE MATTING, WATTLES, AND ROCK CHECK DAMS" SHALL BE IN-PLACE OVER ALL EXPOSED SOILS BY OCTOBER 1.

5. THE STORM WATER FACILITIES SHALL BE CONSTRUCTED AND LANDSCAPED PRIOR TO THE STORM WATER SYSTEM FUNCTIONING AND SITE PAVING.

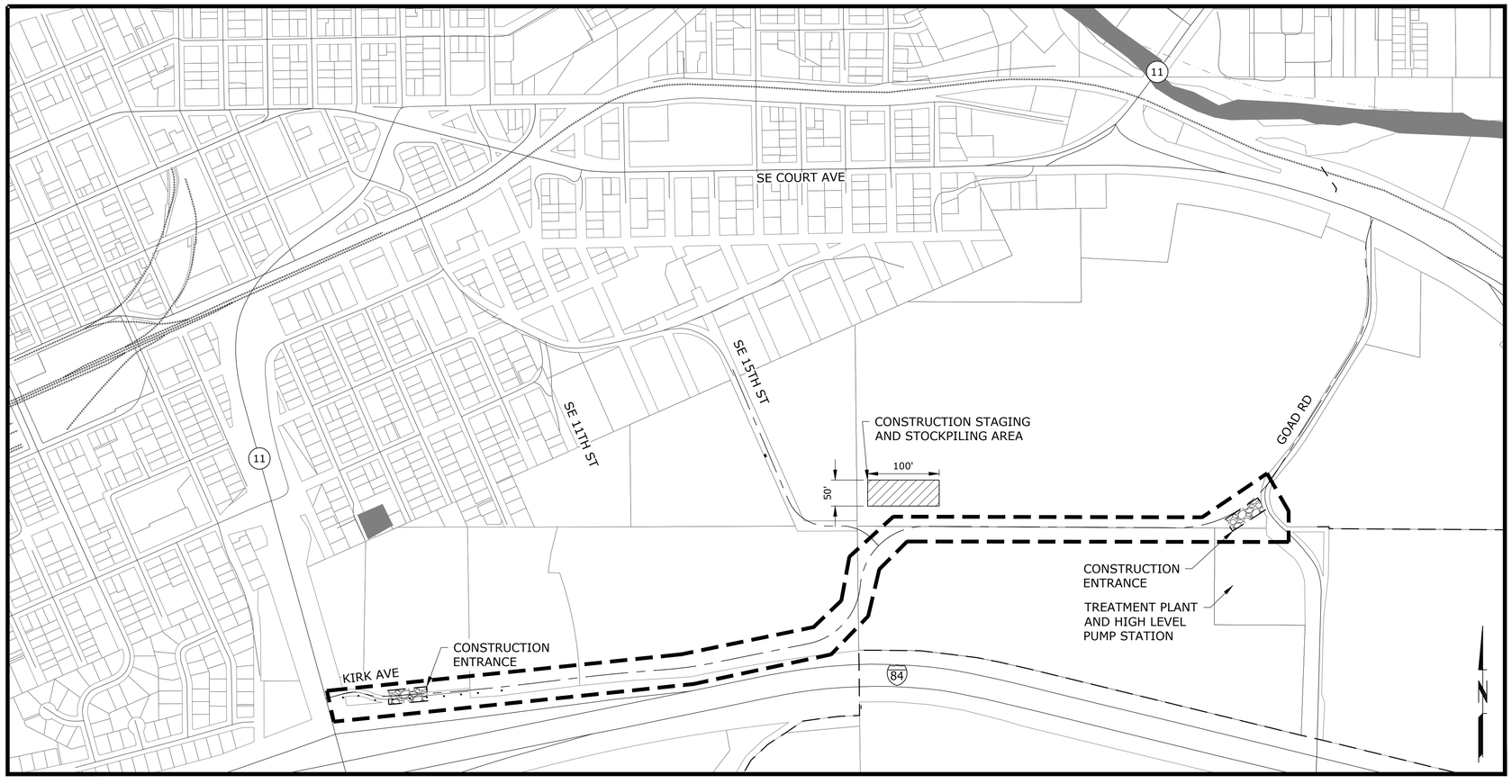
6. INLET PROTECTION SHALL BE IN-PLACE IMMEDIATELY FOLLOWING PAVING ACTIVITIES.

EROSION CONTROL NOTES

1. EMERGENCY EROSION CONTROL MATERIALS MUST BE KEPT ON SITE AT ALL TIMES.
2. INSTALL, INSPECT, CLEAN, AND MAINTAIN TEMPORARY SEDIMENT FENCE TO PREVENT SEDIMENT LADEN WATER FROM LEAVING THE SITE THROUGHOUT CONSTRUCTION. TEMPORARY SEDIMENT FENCE SHALL BE INSTALLED PARALLEL TO SLOPE CONTOURS OR AS SHOWN. ADDITIONAL TEMPORARY SEDIMENT FENCE MAY BE REQUIRED BASED ON SITE CONDITIONS AND MEANS AND METHODS DEVELOPED BY CONTRACTOR. OVERLAY TEMPORARY SEDIMENT FENCE 6" MINIMUM AND TURN LAST 6 FEET OF FENCE UPSLOPE (TYPICAL).
3. INSPECT, CLEAN, AND MAINTAIN GRAVEL CONSTRUCTION ENTRANCE TO PREVENT SEDIMENT AND SEDIMENT LADEN WATER FROM LEAVING THE SITE THROUGHOUT CONSTRUCTION.
4. ADDITIONAL TRACKING CONTROL MEASURES SUCH AS A WHEEL WASH MAY BE NECESSARY IF CONSTRUCTION ENTRANCE IS NOT SUFFICIENT. SEE ODOT STANDARD DRAWING RD1060, SHEET ESC-5B.
5. INSTALL TEMPORARY SLOPE MATTING AND PLASTIC SHEETING ON ALL SLOPES 2:1 OR GREATER.
6. ON-SITE RUNOFF ACCUMULATION INTO LOW POINTS SHALL BE PUMPED BY THE CONTRACTOR TO A SUITABLE LOCATION, IF REQUIRED.

LEGEND

- AREA OF PROJECT IMPROVEMENTS
- COMMERCIAL CONST ENTRANCE SEE DET DWG 4-13, SHT ESC-5
- CONSTRUCTION STAGING AND STOCKPILING AREA



PLAN
SCALE: 1" = 400'

GRADING, EROSION, AND SEDIMENT CONSTRUCTION NOTES:

1. SEED USED FOR TEMPORARY OR PERMANENT SEEDING SHALL BE COMPOSED OF ONE OF THE FOLLOWING MIXTURES, UNLESS OTHERWISE AUTHORIZED:
   - A. VEGETATED CORRIDOR AREAS REQUIRE NATIVE SEED MIXES. SEE RESTORATION PLAN FOR APPROPRIATE SEED MIX.
   - B. DWARF GRASS MIX (MINIMUM 100 LB/AC)
     - i. DWARF PERENNIAL RYEGRASS (80% BY WEIGHT)
     - ii. CREEPING RED FESCUE (20% BY WEIGHT)
   - C. STANDARD HEIGHT GRASS MIX (MINIMUM 100 LB/AC)
     - i. ANNUAL RYEGRASS (40% BY WEIGHT)
     - ii. TURF-TYPE FESCUE (60% BY WEIGHT)

2. SLOPES AND DISTURBED AREA TO RECEIVE TEMPORARY OR PERMANENT SEEDING SHALL HAVE THE SURFACE ROUGHENED BY MEANS OF TRACK-WALKING OR THE USE OF OTHER APPROVED IMPLEMENTS. SURFACE ROUGHENING IMPROVES SEED BEDDING AND REDUCES RUN-OFF VELOCITY.

3. LONG TERM SLOPE AND DISTURBED AREAS STABILIZATION MEASURES SHALL INCLUDE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER VIA SEEDING WITH APPROVED MIX AND APPLICATION RATE. SEE SPECIFICATIONS. IN ADDITION, ALL SLOPES OF 2:1 OR GREATER SHALL RECEIVE MATTING.

4. TEMPORARY SLOPE AND DISTURBED AREA STABILIZATION MEASURES SHALL INCLUDE: COVERING EXPOSED SOIL WITH PLASTIC SHEETING, STRAW MULCHING, WOOD CHIPS, OR OTHER APPROVED MEASURES, IN ACCORDANCE WITH SECTION 31 22 13, ROUGH GRADING.

5. DURING "WET WEATHER" PERIODS, STOCKPILES SHALL BE COVERED WITH PLASTIC SHEETING OR STRAW MULCH. SEDIMENT FENCE IS REQUIRED AROUND THE PERIMETER OF THE STOCKPILE.

6. EXPOSED CUT OR FILL AREAS SHALL BE STABILIZED THROUGH THE USE OF TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS OR MATS, MID-SLOPE SEDIMENT FENCES OR WATTLES, OR OTHER APPROPRIATE MEASURES. SLOPES EXCEEDING 25% MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES.

7. AREAS SUBJECT TO WIND EROSION SHALL USE APPROPRIATE DUST CONTROL MEASURES INCLUDING THE APPLICATION OF A FINE SPRAY OF WATER, PLASTIC SHEETING, STRAW MULCHING, OR OTHER APPROVED MEASURES.

8. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, TIRE WASHES, STREET SWEEPING, AND VACUUMING MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS IN THE VICINITY OF THE SITE USED FOR HAULING SOIL ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

9. ACTIVE INLETS TO STORM WATER SYSTEMS SHALL BE PROTECTED THROUGH THE USE OF APPROVED INLET PROTECTION MEASURES. ALL INLET PROTECTION MEASURES ARE TO BE REGULARLY INSPECTED AND MAINTAINED AS NEEDED.

10. SATURATED MATERIALS THAT ARE HAULED OFF-SITE MUST BE TRANSPORTED IN WATER-TIGHT TRUCKS TO ELIMINATE SPILLAGE OF SEDIMENT AND SEDIMENT-LADEN WATER.

11. AN AREA SHALL BE PROVIDED FOR THE WASHING OUT OF CONCRETE TRUCKS IN A LOCATION THAT DOES NOT PROVIDE RUN-OFF THAT CAN ENTER THE STORM WATER SYSTEM. IF THE CONCRETE WASH-OUT AREA CAN NOT BE CONSTRUCTED GREATER THAN 50' FROM ANY DISCHARGE POINT, SECONDARY MEASURES SUCH AS BERM OR TEMPORARY SETTLING PITS MAY BE REQUIRED. THE WASH-OUT SHALL BE LOCATED WITHIN SIX FEET OF TRUCK ACCESS AND BE CLEANED WHEN IT REACHES 50% OF THE CAPACITY.

12. SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE SHALL NOT BE TRANSFERRED TO THE STORM WATER SYSTEM. SWEEPINGS SHALL BE PICKED UP AND DISPOSED IN THE TRASH.

13. AVOID PAVING IN WET WEATHER WHEN PAVING CHEMICALS CAN RUN-OFF INTO THE STORM WATER SYSTEM.

14. USE BMPS SUCH AS CHECK-DAMS, BERMS, AND INLET PROTECTION TO PREVENT RUN-OFF FROM REACHING DISCHARGE POINTS.

15. COVER CATCH BASINS, MANHOLES, AND OTHER DISCHARGE POINTS WHEN APPLYING SEAL COAT, TACK COAT, ETC TO PREVENT INTRODUCING THESE MATERIALS TO THE STORM WATER SYSTEM.

16. FOLLOWING CLEARING ACTIVITIES, CONTRACTOR SHALL COVER ENTIRE SCHEDULES B & C SITE (RESERVOIR AND BOOSTER STATION) WITH PERMANENT DEPTH OF 2 INCHES OF 3/4"-0" CRUSHED ROCK FOR WEED AND DUST CONTROL. CRUSHED ROCK SURFACING SHALL EXTEND 2 FEET BEYOND SITE PERIMETER FENCING.

NO.	DATE	BY	REVISION

NOTICE
0 ½ 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

MDP DESIGNED
JSD DRAWN
LLA CHECKED

REGISTERED PROFESSIONAL ENGINEER 76386 OREGON DECEMBER 29, 2009 LAEL L. ALDERMAN RENEWS 12/31/2023

consor

CITY OF PENDLETON INCORPORATED 1880 OREGON

SCHEDULE A & B: CONNECTOR ROAD WATERLINES

EROSION AND SEDIMENT CONTROL

EROSION AND SEDIMENT CONTROL PLAN OVERVIEW AND NOTES

PROJECT NO.: 22-3530 | SCALE: AS SHOWN | DATE: JUNE 2023

SHEET ESC-2
8 of 28

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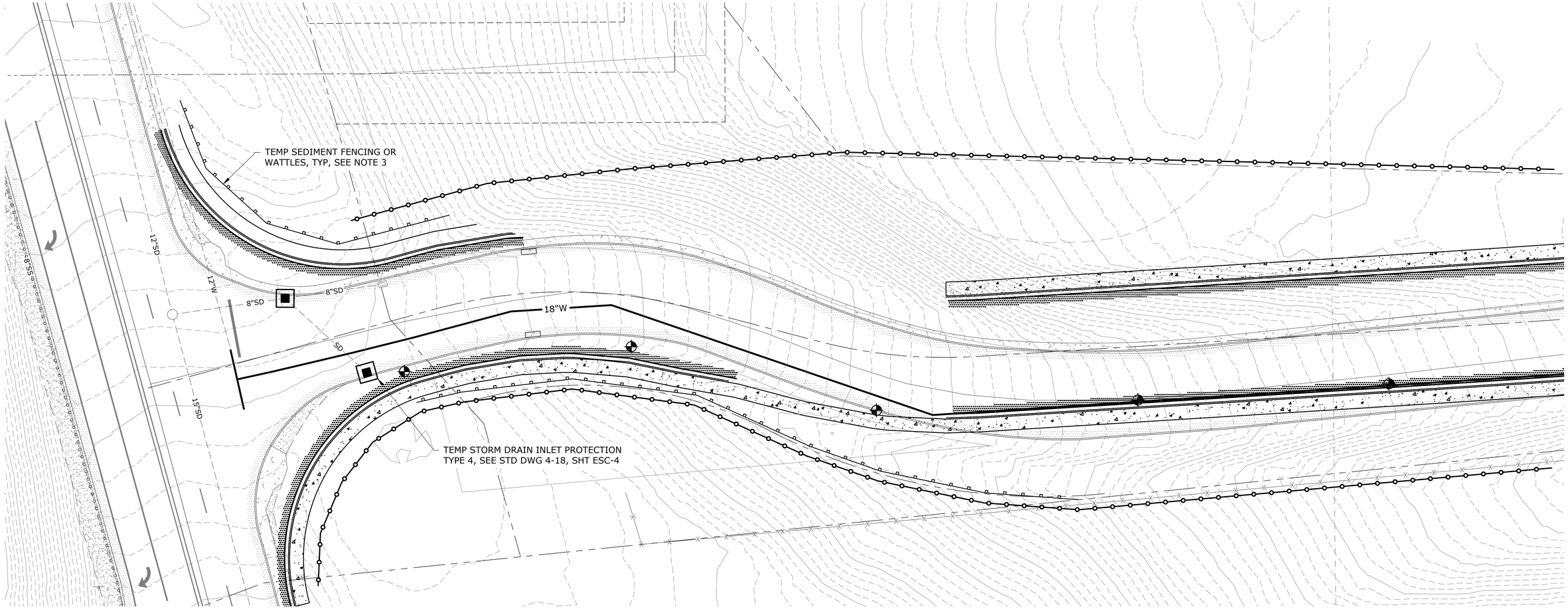

NOTES:

1. SEED USED FOR TEMPORARY OR PERMANENT SEEDING SHALL BE COMPOSED OF ONE OF THE FOLLOWING MIXTURES, UNLESS OTHERWISE AUTHORIZED:

   A. VEGETATED CORRIDOR AREAS REQUIRE NATIVE SEED MIXES. SEE RESTORATION PLAN FOR APPROPRIATE SEED MIX.
   B. DWARF GRASS MIX (MINIMUM 100 LB/AC)
      i. DWARF PERENNIAL RYEGRASS (80% BY WEIGHT)
      ii. CREEPING RED FESCUE (20% BY WEIGHT)
   C. STANDARD HEIGHT GRASS MIX (MINIMUM 100 LB/AC)
      i. ANNUAL RYEGRASS (40% BY WEIGHT)
      ii. TURF-TYPE FESCUE (60% BY WEIGHT)

2. BEST MANAGEMENT PRACTICES (BMP) SHOWN ARE THOSE OF A TYPICAL PIPE ALIGNMENT ADJACENT TO A ROADWAY. PROVIDE BMP AS NECESSARY TO SATISFY REQUIREMENTS OF THE 1200-C PERMIT.

3. INSTALLATION OF SEDIMENT FENCING MAY NOT BE FEASIBLE GIVEN SHALLOW DEPTH OF SOLID ROCK (APPROXIMATELY 18-INCHES BELOW EXISTING GRADE). WHERE INSTALLATION OF SEDIMENT FENCING IS NOT POSSIBLE, CONTRACTOR SHALL INSTALL WATTLES. SEE STANDARD DETAILS 4-23 AND 4-27 ON SHEET ESC-4.

4. BEST MANAGEMENT PRACTICES (BMPs) SHOWN ARE THOSE OF A TYPICAL PIPE ALIGNMENT AWAY FROM DEVELOPED ROADWAYS. PROVIDE BMP AS NECESSARY TO SATISFY REQUIREMENTS OF THE 1200-C PERMIT.

5. FOR EROSION AND SEDIMENT CONTROL BMP IMPLEMENTATION NOTES, SEE SHEET ESC-2. FOR GRADING, UTILITY, EROSION, AND SEDIMENT CONSTRUCTION NOTES, SEE SHEET ESC-2. FOR EROSION AND SEDIMENT CONTROL NOTES, SEE SHEET ESC-2.

LEGEND

- EXISTING CONTOURS (1') — 289
- EXISTING CONTOURS (5') — 290
- GRADE / SLOPE DIRECTION
- BIODEGRADABLE WATTLES
- PLASTIC MESH FENCE
- CONSTRUCTION ENTRANCE

TYPICAL EROSION CONTROL MEASURES FOR TRANSMISSION MAIN IMPROVEMENTS

PLAN

SCALE: 1"=40'

N

NO.	DATE	BY	REVISION

NOTICE
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

MDP DESIGNED
JSD DRAWN
LLA CHECKED

REGISTERED PROFESSIONAL ENGINEER 76386 OREGON DECEMBER 29, 2006 LIAEL L. ALDERMAN RENEWS 12/31/2023

consor

CITY OF PENDLETON INCORPORATED 1880 OREGON

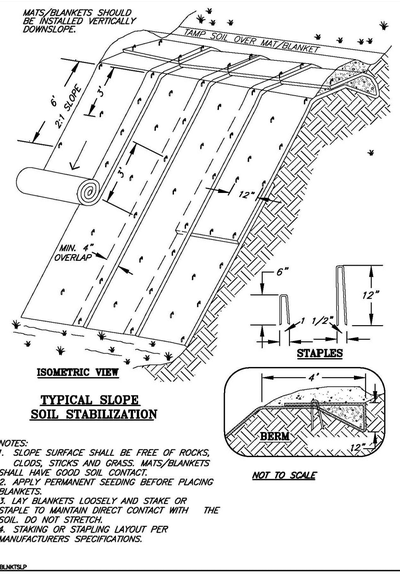
SCHEDULE A & B: CONNECTOR ROAD WATERLINES

EROSION AND SEDIMENT CONTROL

EROSION AND SEDIMENT CONTROL PLAN TRANSMISSION MAIN IMPROVEMENTS

PROJECT NO.: 22-3530 | SCALE: AS SHOWN | DATE: JUNE 2023

SHEET ESC-3



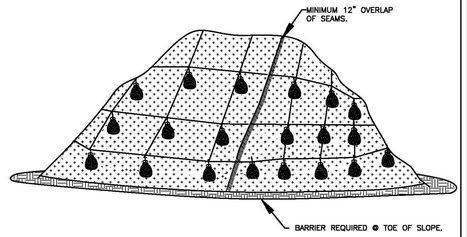
TYPICAL SLOPE SOIL STABILIZATION

NOTES:
1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
2. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
3. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
4. STAKING OR STAPLING LAYOUT PER MANUFACTURERS SPECIFICATIONS.

FILE: BLNKTSLP

MATTING - SLOPE INSTALLATION

DETAIL DRAWING 4–1 REVISED 01–09

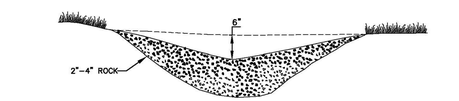


PLASTIC SHEETING

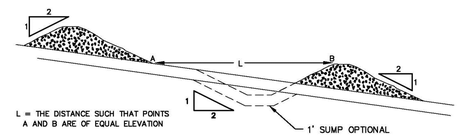
NOTES:
1. MINIMUM 12" OVERLAP OF ALL SEAMS REQUIRED.
2. BARRIER REQUIRED @ TOE OF STOCK PILE.
3. COVERING MAINTAINED TIGHTLY IN PLACE BY USING SANDBAGS OR TIRES ON ROPES WITH A MAXIMUM 10' GRID SPACING IN ALL DIRECTIONS.

PLASTIC SHEETING

DETAIL DRAWING 4–3 REVISED 01–09



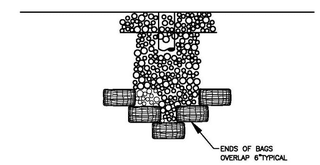
ROCK CHECK DAM



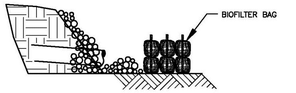
SPACING BETWEEN CHECK DAMS

CHECK DAM - ROCK

DETAIL DRAWING 4–4 REVISED 01–09



PLAN VIEW
NTS

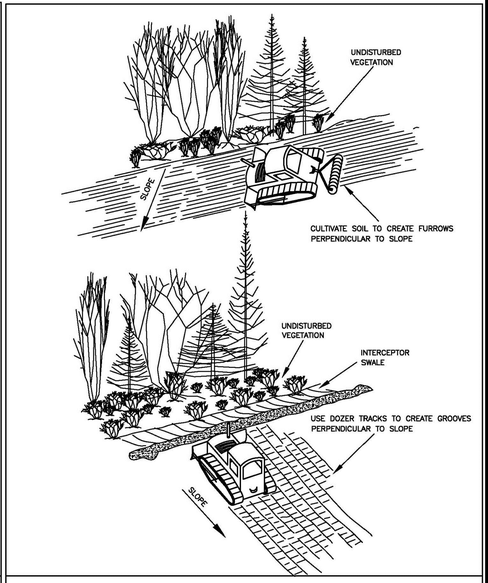


PROFILE

NOTE:
1. BIO BAGS ONLY REQUIRED WHEN DISCHARGING SEDIMENT LADEN WATER.
2. STAKING OF BAGS REQUIRED WITH EITHER METHOD USING (2) 1"x 2" WOOD STAKES OR APPROVED EQUAL PER BAG.

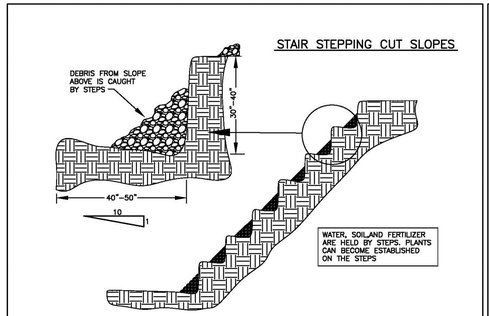
OUTLET PROTECTION - RIP RAP

DETAIL DRAWING 4–7 REVISED 01–09



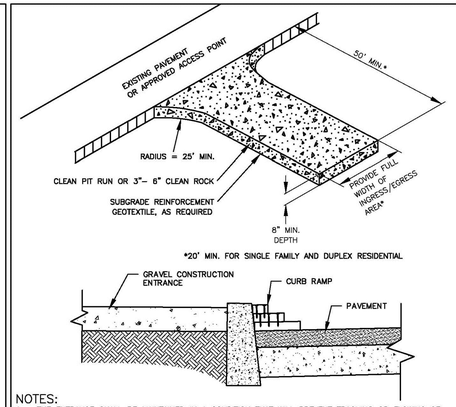
SURFACE ROUGHENING - CAT TRACKING

DETAIL DRAWING 4–10 REVISED 01–09



SURFACE ROUGHENING - STAIR STEPPING/GROOVING

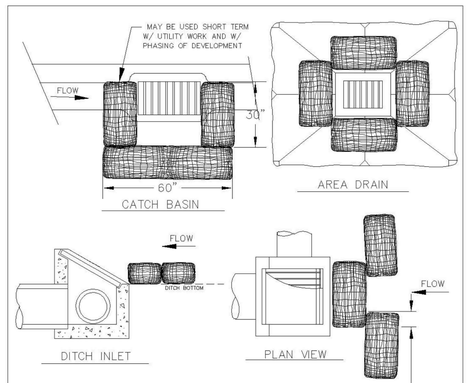
DETAIL DRAWING 4–11 REVISED 01–09



NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT–OF–WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT–OF– WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
4. WHERE RUNOFF CONTAINING SEDIMENT LADEN WATER IS LEAVING THE SITE VIA THE CONSTRUCTION ENTRANCE, OTHER MEASURES SHALL BE IMPLEMENTED TO DIVERT RUNOFF THROUGH AN APPROVED FILTERING SYSTEM.
5. DIMENSIONS
   SINGLE FAMILY
   20' LONG BY 20' WIDE 8" DEEP OF ¾" MINUS CLEAN ROCK.
   COMMERCIAL
   50' LONG BY 20' WIDE 3–6" CLEAN ROCK, GOVERNING AUTHORITY MAY REQUIRE GEOTEXTILE FABRIC TO PREVENT SUB–SOIL PUMPING.

CONSTRUCTION ENTRANCE

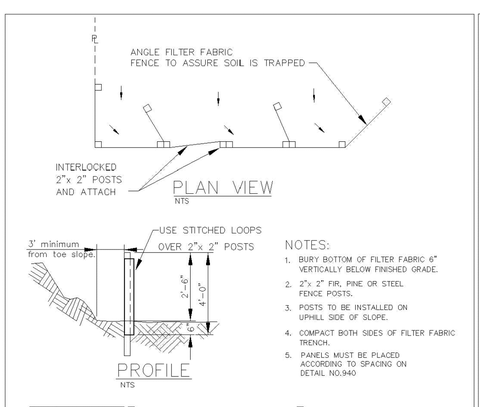
DETAIL DRAWING 4–13 REVISED 01–09



NOTES:
1. ADDITIONAL MEASURES MUST BE CONSIDERED DEPENDING ON SOIL TYPES.
2. BIO–FILTER BAGS SHOULD BE STAKED WHERE APPLICABLE USING (2) 1"x2"WOODEN STAKES OR APPROVED EQUAL PER BAG.
3. WHEN USING 30" BIO–BAGS TO PROTECT A CATCH BASIN YOU MUST HAVE 4 BAGS AND THEY SHALL BE OVERLAPPED BY 6".

INLET PROTECTION TYPE 4

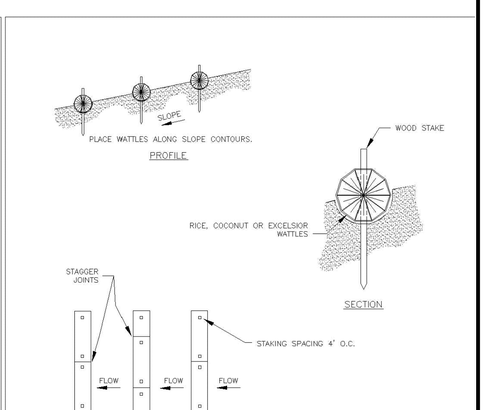
DETAIL DRAWING 4–18 REVISED 01–09



NOTES:
1. BURY BOTTOM OF FILTER FABRIC 6" VERTICALLY BELOW FINISHED GRADE.
2. 2"x 2" FIR, PINE OR STEEL FENCE POSTS.
3. POSTS TO BE INSTALLED ON UPHILL SIDE OF SLOPE.
4. COMPACT BOTH SIDES OF FILTER FABRIC TRENCH.
5. PANELS MUST BE PLACED ACCORDING TO SPACING ON DETAIL NO.940

SEDIMENT FENCE

DETAIL DRAWING 4–23 REVISED 01–09



NOTES:
1. STAKING SPECIFICATIONS:
   a. 1"X2" WOODEN STAKES
   b. ADDITIONAL STAKES MAY BE INSTALLED ON DOWNHILL SIDE OF WATTLES, ON STEEP SLOPE OR HIGHLY EROSIVE SOILS.
2. SPACING IN ACCORDANCE WITH DETAIL 940.

WATTLES

DETAIL DRAWING 4–27 REVISED 01–09

NO.	DATE	BY	REVISION

NOTICE
0 ½ 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

MDP DESIGNED
JSD DRAWN
LLA CHECKED

REGISTERED PROFESSIONAL ENGINEER 76386 OREGON DECEMBER 29, 2006 LAEL L. ALDERMAN
RENEWS 12/31/2023

consor

CITY OF PENDLETON INCORPORATED 1880 OREGON

SCHEDULE A & B: CONNECTOR ROAD WATERLINES

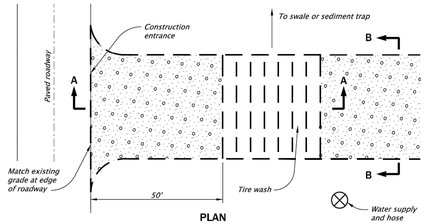
EROSION AND SEDIMENT CONTROL

EROSION AND SEDIMENT CONTROL DETAILS - 1

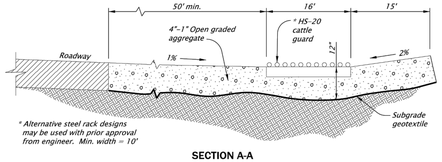
PROJECT NO.: 22-3530 | SCALE: AS SHOWN | DATE: JUNE 2023

SHEET
ESC-4
10 of 28

G:\pdx_projects\22\3530 - Pendleton, City Of, Or - To23 Connector Road Waterlines\CAD\Sheets\22-3530-OR-ESC.dwg ESC-4 6/23/2023 9:23 AM TAYLOR.SPENCER 23.0s (LMS Tech)

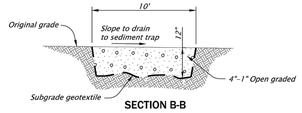


PLAN



* Alternative steel rack designs may be used with prior approval from engineer. Min. width = 10'

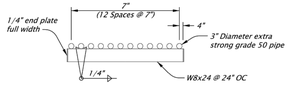
SECTION A-A



SECTION B-B

TIRE WASH - TYPE 1 (MANUAL HOSE WASH)

NOT TO SCALE



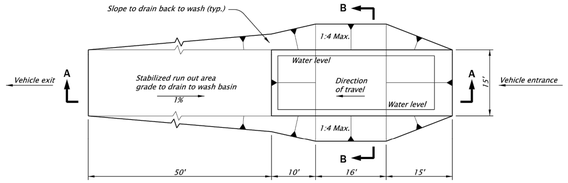
HS-20 CATTLE GUARD

NOT TO SCALE

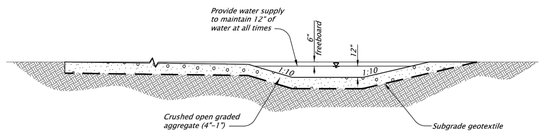
RD1060

07-01-2020

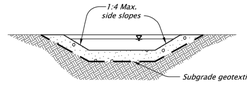
rd1060.dgn



PLAN



SECTION A-A



SECTION B-B

TIRE WASH - TYPE 2

NOT TO SCALE

CALC. BOOK NO. 6403, 6404, 6405	SDR DATE July, 2020
The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications **OREGON STANDARD DRAWINGS** **TIRE WASH FACILITY TYPE 1 AND 2** 2021

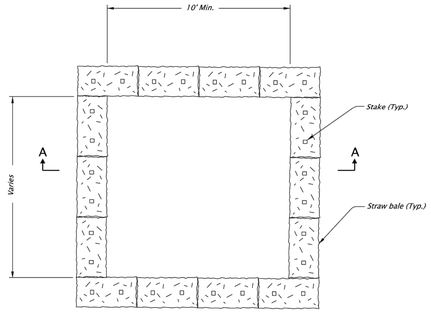
DATE	REVISION DESCRIPTION

Effective Date: December 1, 2020 - May 31, 2021

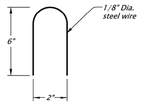
RD1060

06-01-2017

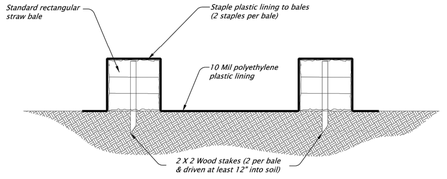
rd1070.dgn



PLAN



STAPLE DETAIL



SECTION A–A

CONCRETE TRUCK WASH OUT FACILITY

RD1070

CALC. BOOK NO. 6403, 6404, 6405	BASELINE REPORT DATE July 2014
The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications **OREGON STANDARD DRAWINGS** **CONCRETE TRUCK WASH OUT** 2018

DATE	REVISION DESCRIPTION

Effective Date: June 1, 2020 - November 30, 2020

RD1070

G:\pdx_projects\22\3530 - Pendleton, City Of, Or - To23 Connector Road Waterlines\CAD\Sheets\22-3530-OR-ESC.dwg ESC-5 6/23/2023 9:23 AM TAYLOR.SPENCER 23.0s (LMS Tech)

NO.	DATE	BY	REVISION

NOTICE

0 ½ 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

MDP DESIGNED

JSD DRAWN

LLA CHECKED

REGISTERED PROFESSIONAL ENGINEER #76386 OREGON DECEMBER 29, 2009 LAEL L. ALDERMAN RENEWS 12/31/2023

consor

CITY OF PENDLETON OREGON INCORPORATED 1880

SCHEDULE A & B: CONNECTOR ROAD WATERLINES

EROSION AND SEDIMENT CONTROL

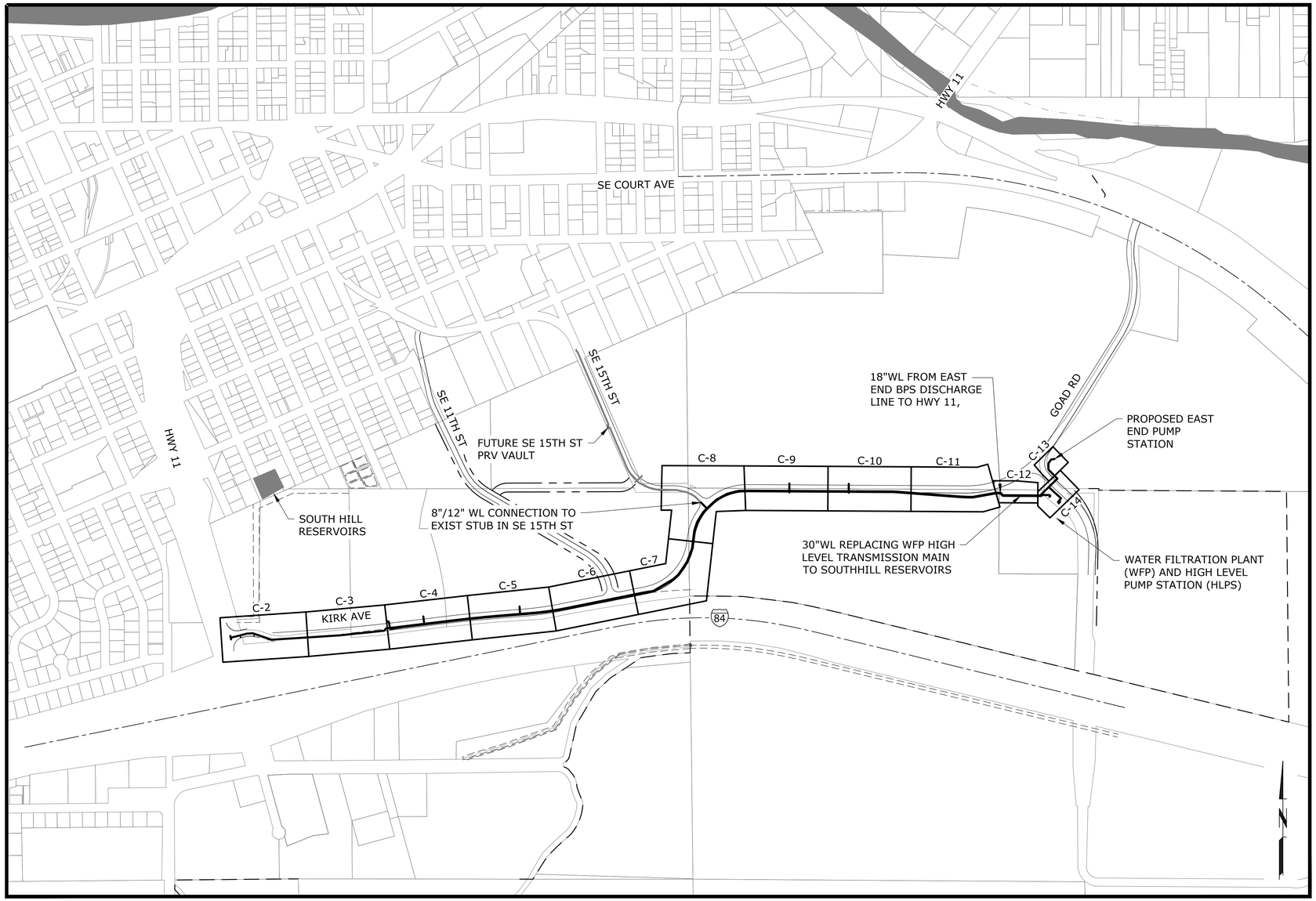
EROSION AND SEDIMENT CONTROL DETAILS - 2

PROJECT NO.: 22-3530 | SCALE: AS SHOWN | DATE: JUNE 2023

SHEET

ESC-5

11 of 28



PLAN
SCALE: 1"=400'

NOTES:

1. THIS SHEET FOR INFORMATIONAL PURPOSES ONLY TO PROVIDE OVERVIEW OF EXISTING ROADWAYS, EASEMENTS, AND FEATURES IN RELATION TO PROJECT AREA AND DOES NOT IDENTIFY WORK OR MATERIALS REQUIRED FOR CONSTRUCTION.

2. NO CONSTRUCTION TRUCK STAGING OR PARKING SHALL BE ALLOWED OUTSIDE OF PROJECT LIMITS.

3. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE PROJECT SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING AND IN RELATION TO PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING PROJECT CONSTRUCTION AREAS CLEAN OF DEBRIS, SAFE & SECURE AT ALL TIMES. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

4. EXISTING 30" WFP HIGH LEVEL TRANSMISSION MAIN IS FOUND ON SHEETS C-3 THROUGH C-7.

NO.	DATE	BY	REVISION

NOTICE
0 ½ 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

MDP DESIGNED
JSD DRAWN
LLA CHECKED

REGISTERED PROFESSIONAL ENGINEER
76386
OREGON
DECEMBER 29, 2006
LAEL L. ALDERMAN
RENEWS 12/31/2023

consor

CITY OF PENDLETON
INCORPORATED 1880
OREGON

SCHEDULE A & B: CONNECTOR ROAD WATERLINES

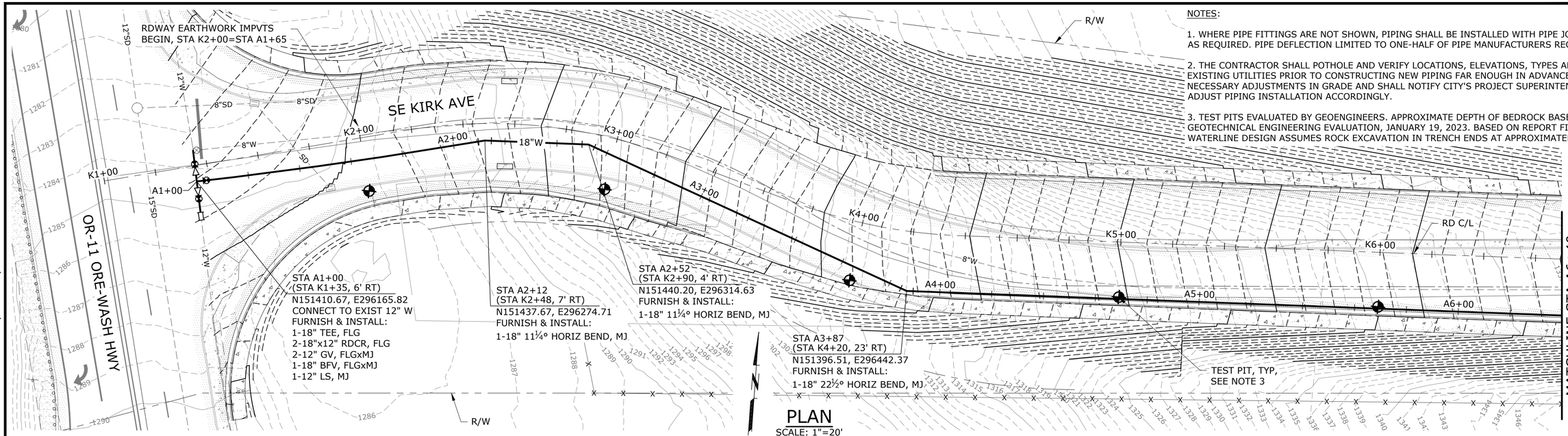
CIVIL

SITE MAPPING AND GENERAL PROJECT OVERVIEW

PROJECT NO.: 22-3530 | SCALE: AS SHOWN | DATE: JUNE 2023

SHEET
C-1
12 of 28

G:\pdx_projects\22\3530 - Pendleton, City Of, Or - To23 Connector Road Waterlines\CAD\Sheets\22-3530-OR-C1.dwg C-1 4/20/2023 9:41 AM TAYLOR.SPENCER 23.0s (LMS Tech)



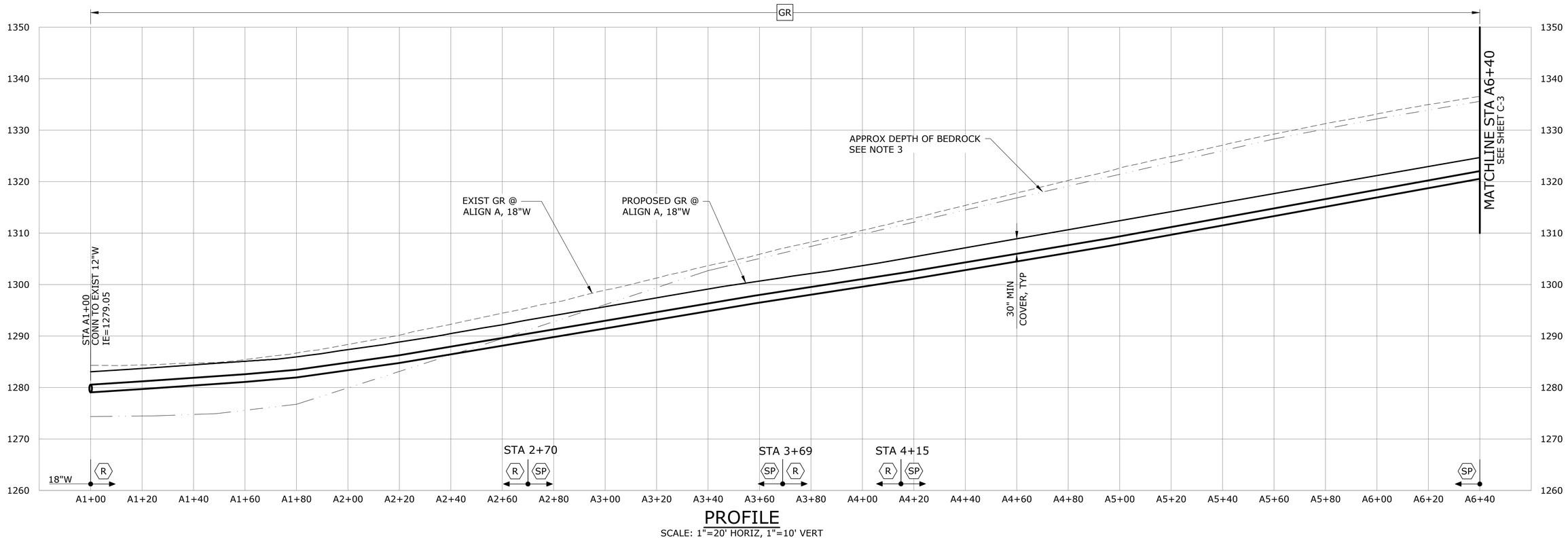
PLAN
SCALE: 1"=20'

NOTES:

1. WHERE PIPE FITTINGS ARE NOT SHOWN, PIPING SHALL BE INSTALLED WITH PIPE JOINT DEFLECTION AS REQUIRED. PIPE DEFLECTION LIMITED TO ONE-HALF OF PIPE MANUFACTURERS RECOMMENDATIONS.

2. THE CONTRACTOR SHALL POTHOLE AND VERIFY LOCATIONS, ELEVATIONS, TYPES AND SIZES OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTING NEW PIPING FAR ENOUGH IN ADVANCE TO ALLOW NECESSARY ADJUSTMENTS IN GRADE AND SHALL NOTIFY CITY'S PROJECT SUPERINTENDENT OF NEED TO ADJUST PIPING INSTALLATION ACCORDINGLY.

3. TEST PITS EVALUATED BY GEOENGINEERS. APPROXIMATE DEPTH OF BEDROCK BASED ON GEOTECHNICAL ENGINEERING EVALUATION, JANUARY 19, 2023. BASED ON REPORT FINDINGS, WATERLINE DESIGN ASSUMES ROCK EXCAVATION IN TRENCH ENDS AT APPROXIMATELY STA A11+60.



PROFILE
SCALE: 1"=20' HORIZ, 1"=10' VERT

G:\pdx_projects\22\3530 - Pendleton, City Of, Or - To23 Connector Road Waterlines\CAD\Sheets\22-3530-OR-C2-5.dwg C-2 6/23/2023 8:59 AM TAYLOR.SPENCER 23.0s (LMS Tech)

NO.	DATE	BY	REVISION

NOTICE
0 ½ 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

MDP DESIGNED
JSD DRAWN
LLA CHECKED

REGISTERED PROFESSIONAL ENGINEER 76386 OREGON DECEMBER 29, 2006 LYELL L. ALDERMAN RENEWS 12/31/2023

consor

CITY OF PENDLETON INCORPORATED 1880 OREGON

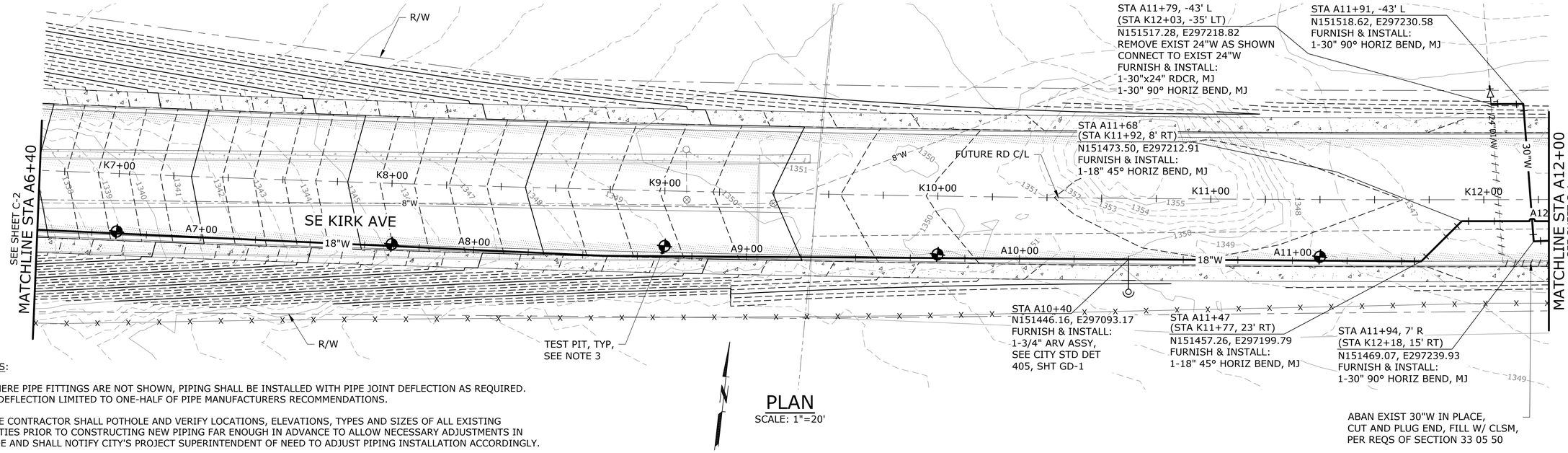
SCHEDULE A & B: CONNECTOR ROAD WATERLINES

CIVIL

PLAN AND PROFILE
STA A1+00 TO STA A6+40

PROJECT NO.: 22-3530 | SCALE: AS SHOWN | DATE: JUNE 2023

SHEET
C-2
13 of 28



PLAN

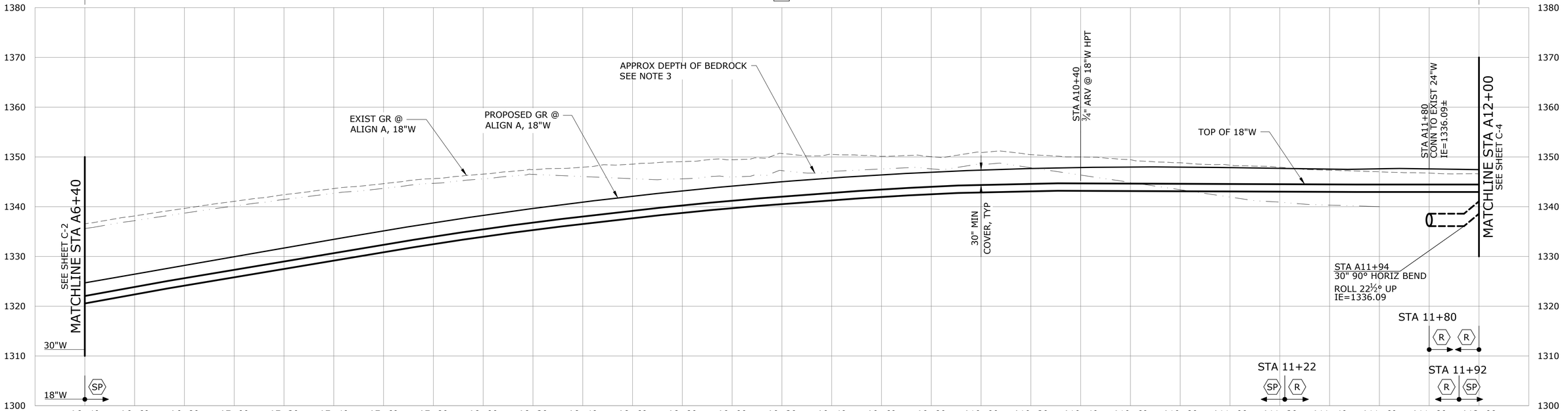
SCALE: 1"=20'

NOTES:

1. WHERE PIPE FITTINGS ARE NOT SHOWN, PIPING SHALL BE INSTALLED WITH PIPE JOINT DEFLECTION AS REQUIRED. PIPE DEFLECTION LIMITED TO ONE-HALF OF PIPE MANUFACTURERS RECOMMENDATIONS.

2. THE CONTRACTOR SHALL POTHOLE AND VERIFY LOCATIONS, ELEVATIONS, TYPES AND SIZES OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTING NEW PIPING FAR ENOUGH IN ADVANCE TO ALLOW NECESSARY ADJUSTMENTS IN GRADE AND SHALL NOTIFY CITY'S PROJECT SUPERINTENDENT OF NEED TO ADJUST PIPING INSTALLATION ACCORDINGLY.

3. TEST PITS EVALUATED BY GEOENGINEERS. APPROXIMATE DEPTH OF BEDROCK BASED ON GEOTECHNICAL ENGINEERING EVALUATION, JANUARY 19, 2023. BASED ON REPORT FINDINGS, WATERLINE DESIGN ASSUMES ROCK EXCAVATION IN TRENCH ENDS AT APPROXIMATELY STA A11+60.



PROFILE

SCALE: 1"=20' HORIZ, 1"=10' VERT

NO.	DATE	BY	REVISION

NOTICE

0 ½ 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

MDP DESIGNED

JSD DRAWN

LLA CHECKED

REGISTERED PROFESSIONAL ENGINEER 76386 OREGON DECEMBER 19, 2008 LAEL L. ALDERMAN RENEWS 12/31/2023

consor

CITY OF PENDLETON INCORPORATED 1880 OREGON

SCHEDULE A & B: CONNECTOR ROAD WATERLINES

CIVIL

PLAN AND PROFILE STA A6+40 TO STA A12+00

PROJECT NO.: 22-3530 | SCALE: AS SHOWN | DATE: JUNE 2023

SHEET C-3

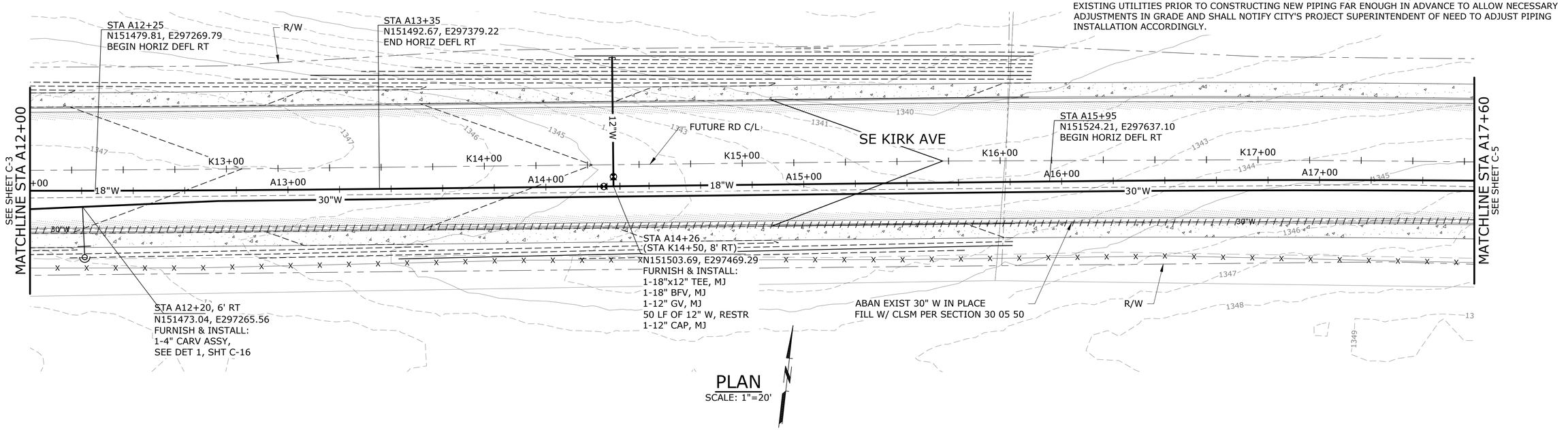
14 of 28

G:\pdx_projects\22\3530 - Pendleton, City Of, Or - To23 Connector Road Waterlines\CAD\Sheets\22-3530-OR-C2-5.dwg C-3 6/23/2023 8:59 AM TAYLOR.SPENCER 23.0s (LMS Tech)

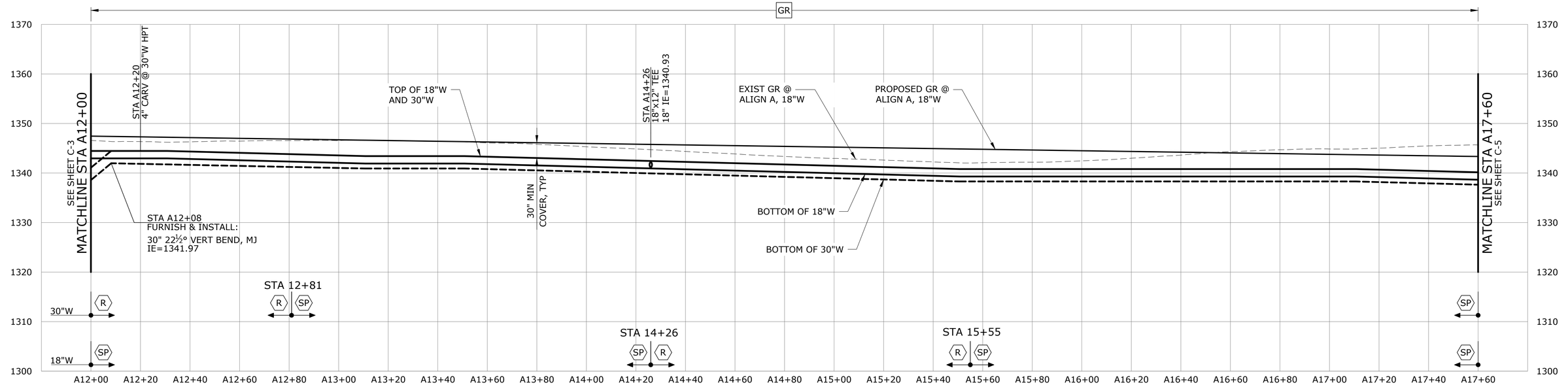
NOTES:

1. WHERE PIPE FITTINGS ARE NOT SHOWN, PIPING SHALL BE INSTALLED WITH PIPE JOINT DEFLECTION AS REQUIRED. PIPE DEFLECTION LIMITED TO ONE-HALF OF PIPE MANUFACTURERS RECOMMENDATIONS.

2. THE CONTRACTOR SHALL POTHOLE AND VERIFY LOCATIONS, ELEVATIONS, TYPES AND SIZES OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTING NEW PIPING FAR ENOUGH IN ADVANCE TO ALLOW NECESSARY ADJUSTMENTS IN GRADE AND SHALL NOTIFY CITY'S PROJECT SUPERINTENDENT OF NEED TO ADJUST PIPING INSTALLATION ACCORDINGLY.



PLAN
SCALE: 1"=20'



PROFILE
SCALE: 1"=20' HORIZ, 1"=10' VERT

NO.	DATE	BY	REVISION

NOTICE
0 ½ 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

MDP DESIGNED
JSD DRAWN
LLA CHECKED

REGISTERED PROFESSIONAL ENGINEER 76386 OREGON DECEMBER 19, 1986 LAEL L. ALDERMAN RENEWS 12/31/2023

consor

CITY OF PENDLETON INCORPORATED 1880 OREGON

SCHEDULE A & B: CONNECTOR ROAD WATERLINES

CIVIL

PLAN AND PROFILE
STA A12+00 TO STA A17+60

PROJECT NO.: 22-3530 | SCALE: AS SHOWN | DATE: JUNE 2023

SHEET
C-4
15 of 28

G:\pdx_projects\22\3530 - Pendleton, City Of, Or - To23 Connector Road Waterlines\CAD\Sheets\22-3530-OR-C2-5.dwg C-4 6/23/2023 8:59 AM TAYLOR.SPENCER 23.0s (LMS Tech)

NOTES:

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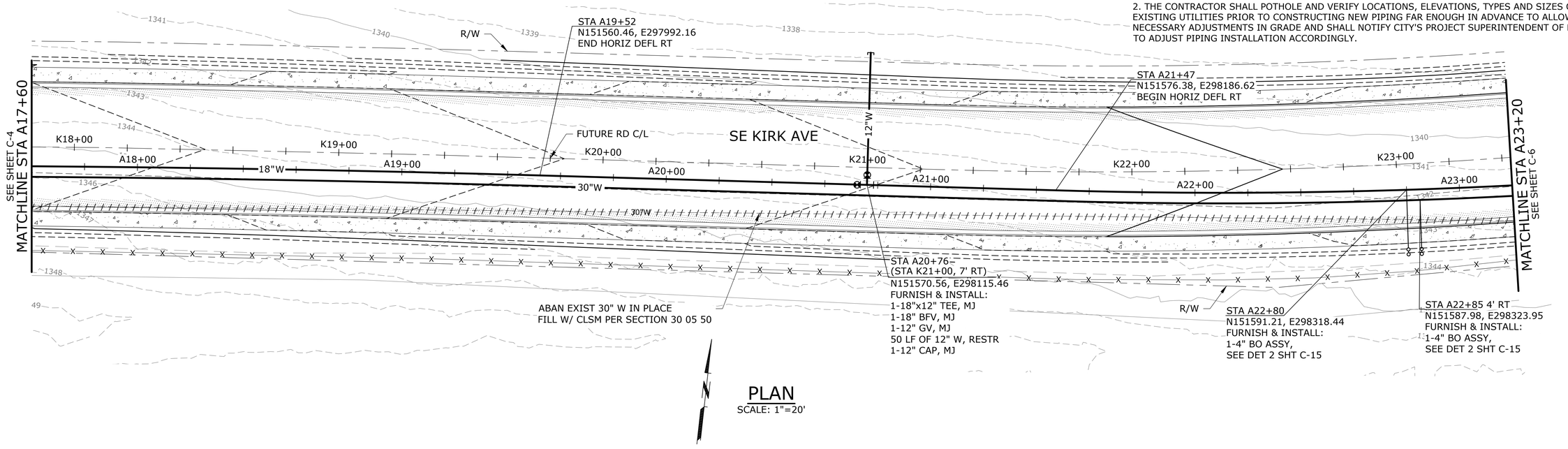
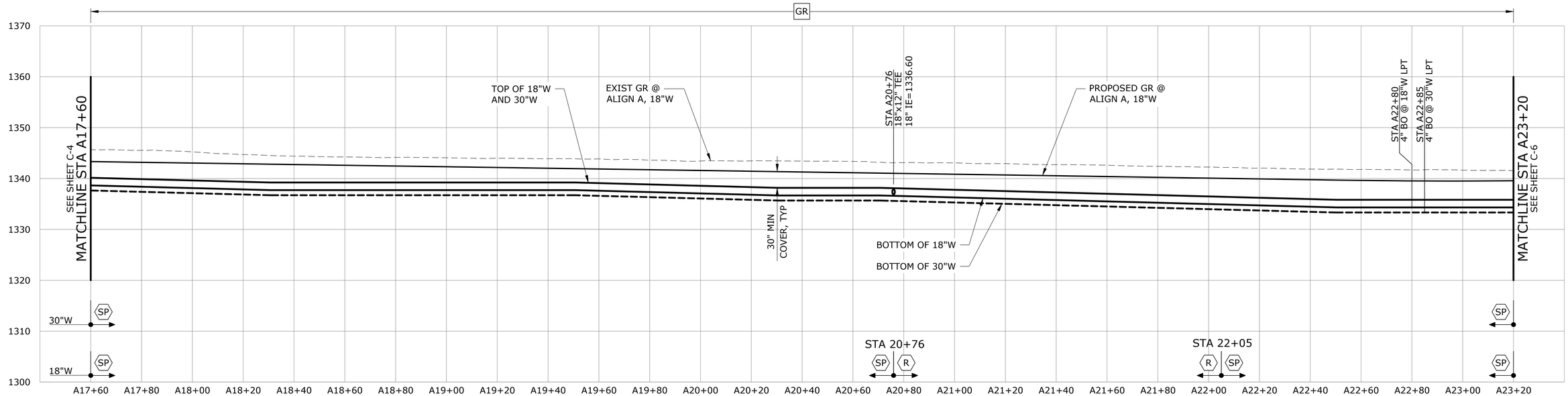


PLAN
SCALE: 1"=20'



PROFILE
SCALE: 1"=20' HORIZ, 1"=10' VERT

NO.	DATE	BY	REVISION

NOTICE
0 ½ 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

MDP DESIGNED
JSD DRAWN
LLA CHECKED

REGISTERED PROFESSIONAL ENGINEER 76386 OREGON DECEMBER 29, 2006 LIAEL L. ALDERMAN RENEWS 12/31/2023

consor

CITY OF PENDLETON OREGON INCORPORATED 1880

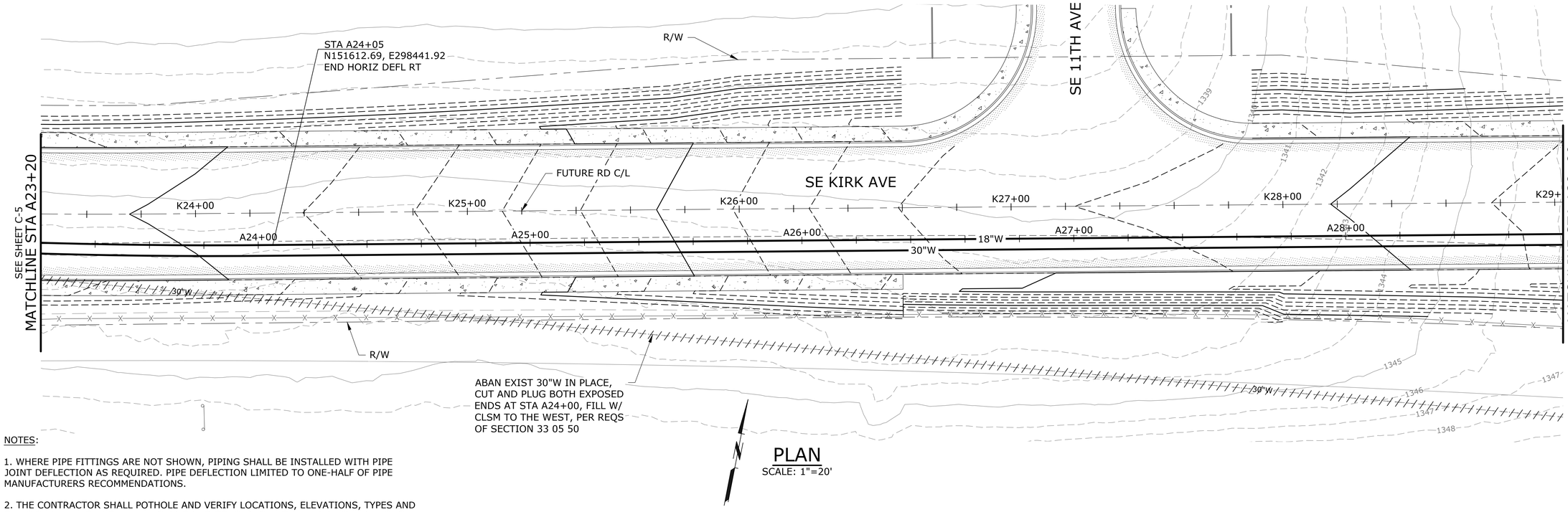
SCHEDULE A & B: CONNECTOR ROAD WATERLINES

CIVIL

PLAN AND PROFILE
STA A17+60 TO STA A23+20

PROJECT NO.: 22-3530 | SCALE: AS SHOWN | DATE: JUNE 2023

SHEET
C-5
16 of 28



PLAN
SCALE: 1"=20'

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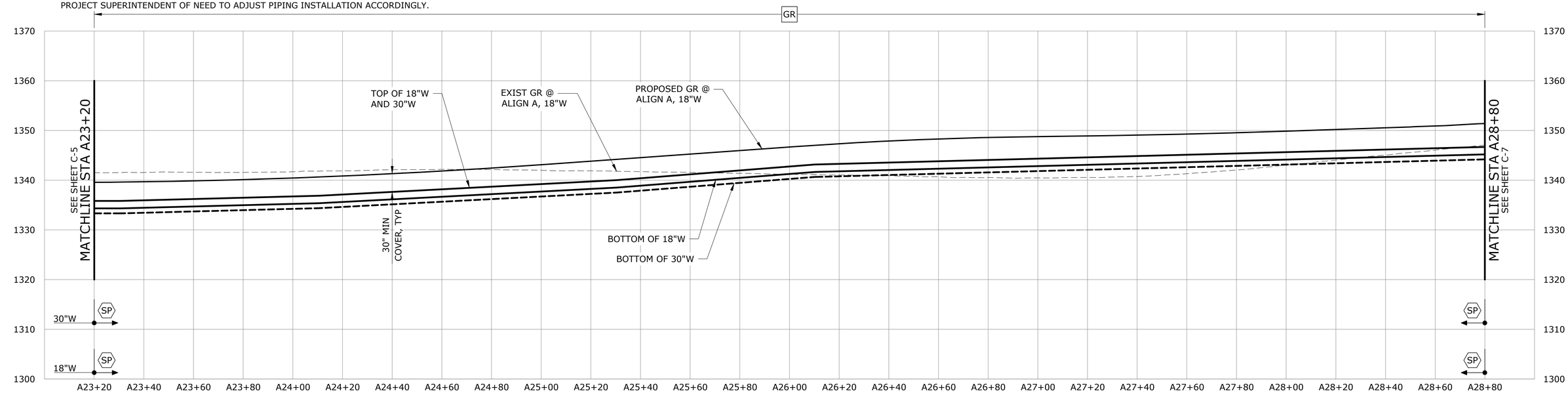

PROFILE
SCALE: 1"=20' HORIZ, 1"=10' VERT

NO.	DATE	BY	REVISION

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REGISTERED PROFESSIONAL ENGINEER
76386
OREGON
DECEMBER 29, 2006
LAEL L. ALDERMAN
RENEWS 12/31/2023

consor

CITY OF PENDLETON
INCORPORATED 1880
OREGON

SCHEDULE A & B: CONNECTOR ROAD WATERLINES

CIVIL

PLAN AND PROFILE
STA A23+20 TO STA A28+80

PROJECT NO.: 22-3530 | SCALE: AS SHOWN | DATE: JUNE 2023

SHEET
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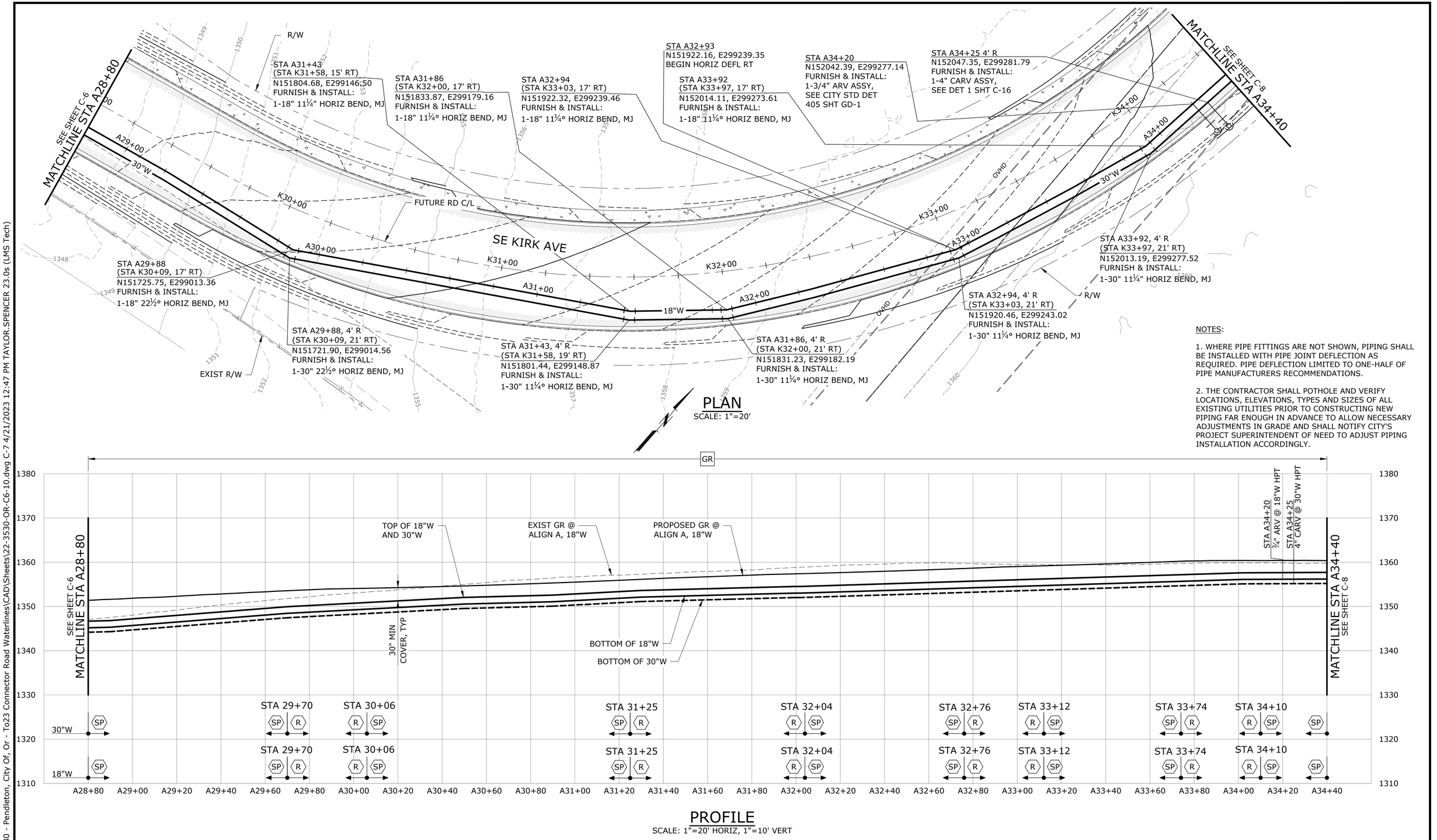

PLAN
SCALE: 1"=20'

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SCALE: 1"=20' HORIZ, 1"=10' VERT

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REGISTERED PROFESSIONAL ENGINEER 76386 OREGON DECEMBER 29, 2006 LAEL L. ALDERMAN RENEWS 12/31/2023

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CITY OF PENDLETON INCORPORATED 1880 OREGON

SCHEDULE A & B: CONNECTOR ROAD WATERLINES

CIVIL

PLAN AND PROFILE
STA A28+80 TO STA A34+40

PROJECT NO.: 22-3530 | SCALE: AS SHOWN | DATE: JUNE 2023

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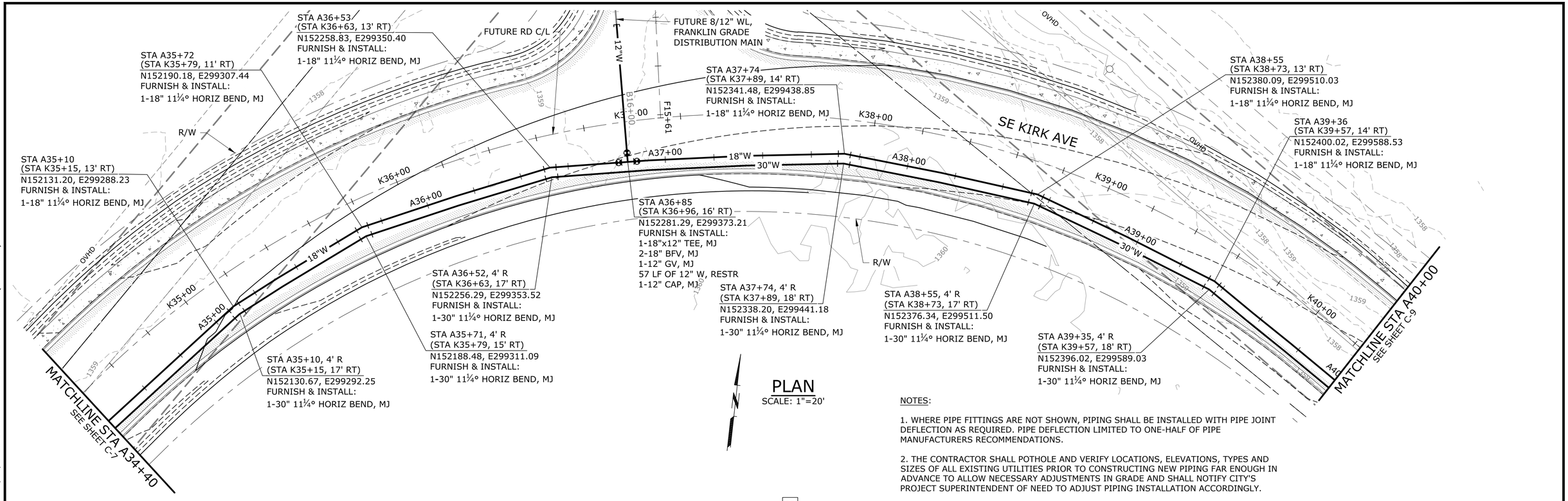
G:\pdx_projects\22\3530 - Pendleton, City Of, Or - To23 Connector Road Waterlines\CAD\Sheets\22-3530-OR-C6-10.dwg C-7 4/21/2023 12:47 PM TAYLOR.SPENCER 23.0s (LMS Tech)



PLAN
SCALE: 1"=20'

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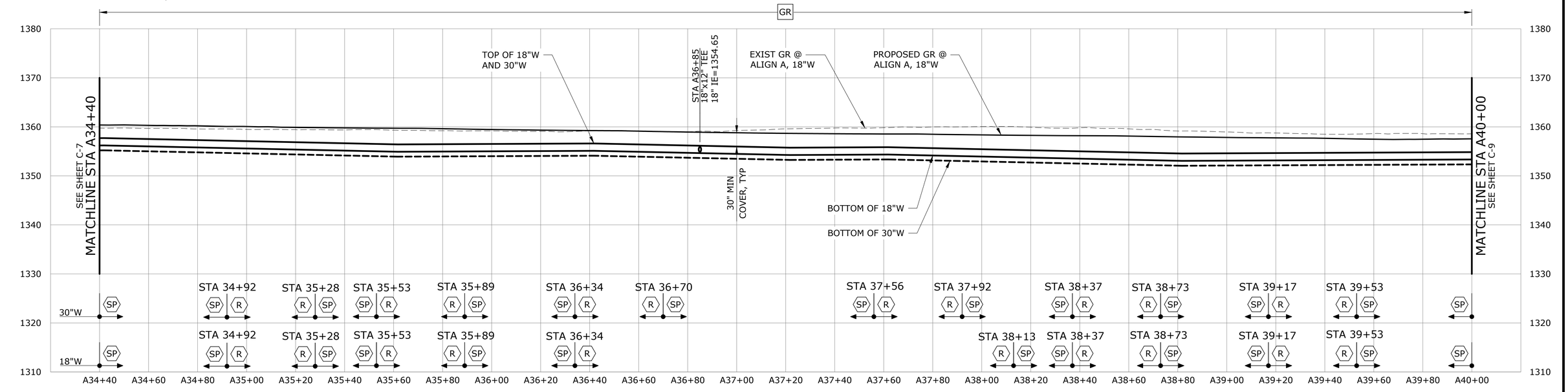

PROFILE
SCALE: 1"=20' HORIZ, 1"=10' VERT

NO.	DATE	BY	REVISION

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REGISTERED PROFESSIONAL ENGINEER 76386 OREGON DECEMBER 29, 2006 LUELL L. ALDERMAN RENEWS 12/31/2023

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CITY OF PENDLETON OREGON INCORPORATED 1880

SCHEDULE A & B: CONNECTOR ROAD WATERLINES

CIVIL

PLAN AND PROFILE
STA A34+40 TO STA A40+00

PROJECT NO.: 22-3530 | SCALE: AS SHOWN | DATE: JUNE 2023

SHEET
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G:\pdx_projects\22\3530 - Pendleton, City Of, Or - To23 Connector Road Waterlines\CAD\Sheets\22-3530-OR-C6-10.dwg C-8 4/21/2023 12:47 PM TAYLOR.SPENCER 23.0s (LMS Tech)

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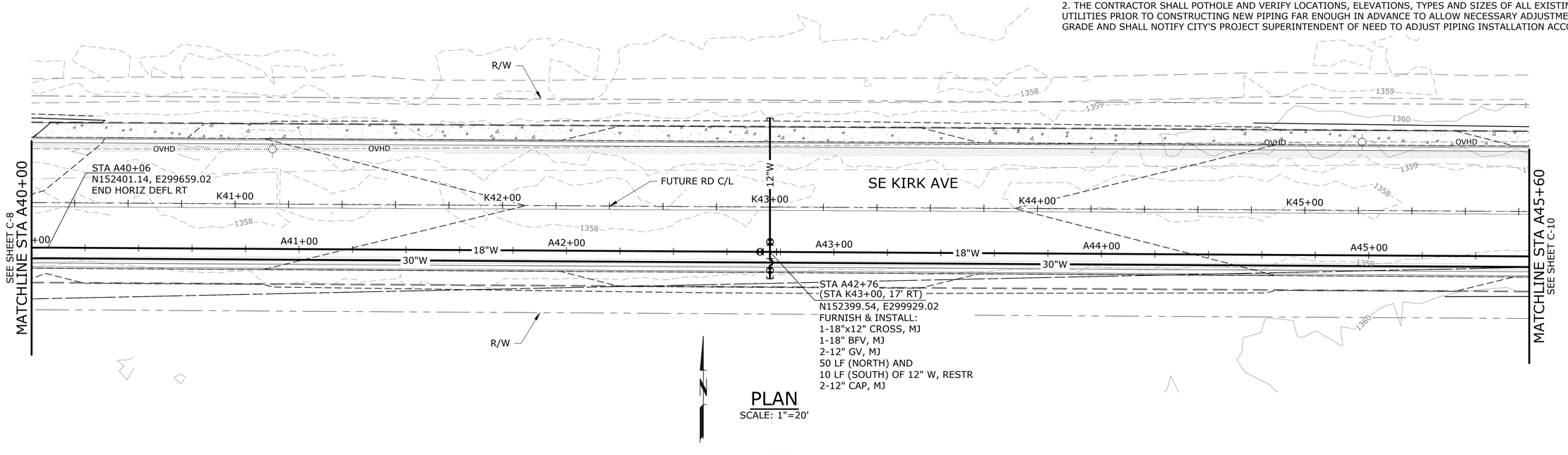

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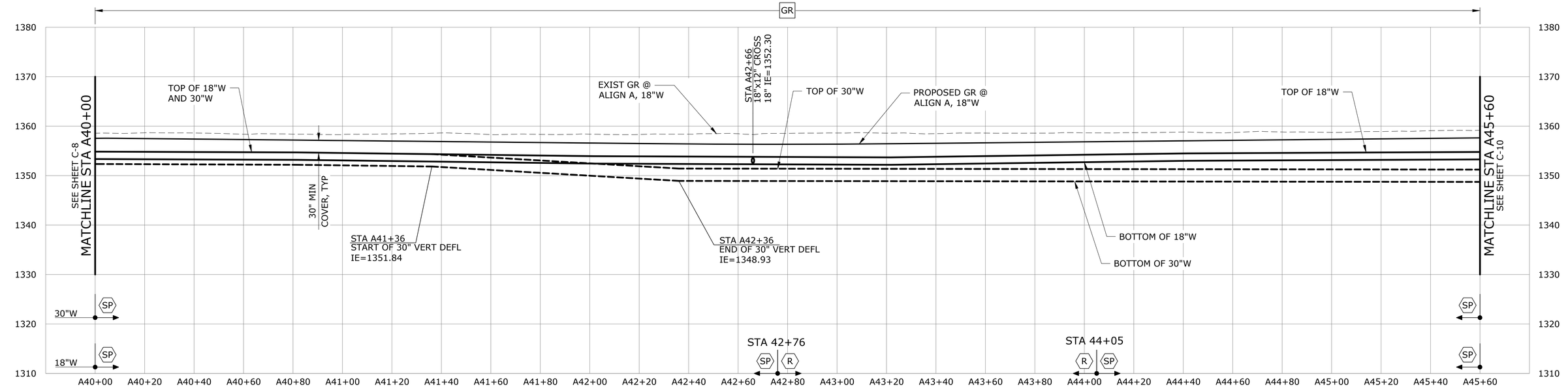

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REGISTERED PROFESSIONAL ENGINEER
76386
OREGON
DECEMBER 19, 2008
LAEL L. ALDERMAN
RENEWS 12/31/2023

consor

CITY OF PENDLETON
INCORPORATED 1880
OREGON

SCHEDULE A & B: CONNECTOR ROAD WATERLINES

CIVIL

PLAN AND PROFILE
STA A40+00 TO STA A45+60

PROJECT NO.: 22-3530 | SCALE: AS SHOWN | DATE: JUNE 2023

SHEET
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20 of 28

G:\pdx_projects\22\3530 - Pendleton, City Of, Or - To23 Connector Road Waterlines\CAD\Sheets\22-3530-OR-C6-10.dwg C-9 4/21/2023 12:47 PM TAYLOR.SPENCER 23.0s (LMS Tech)

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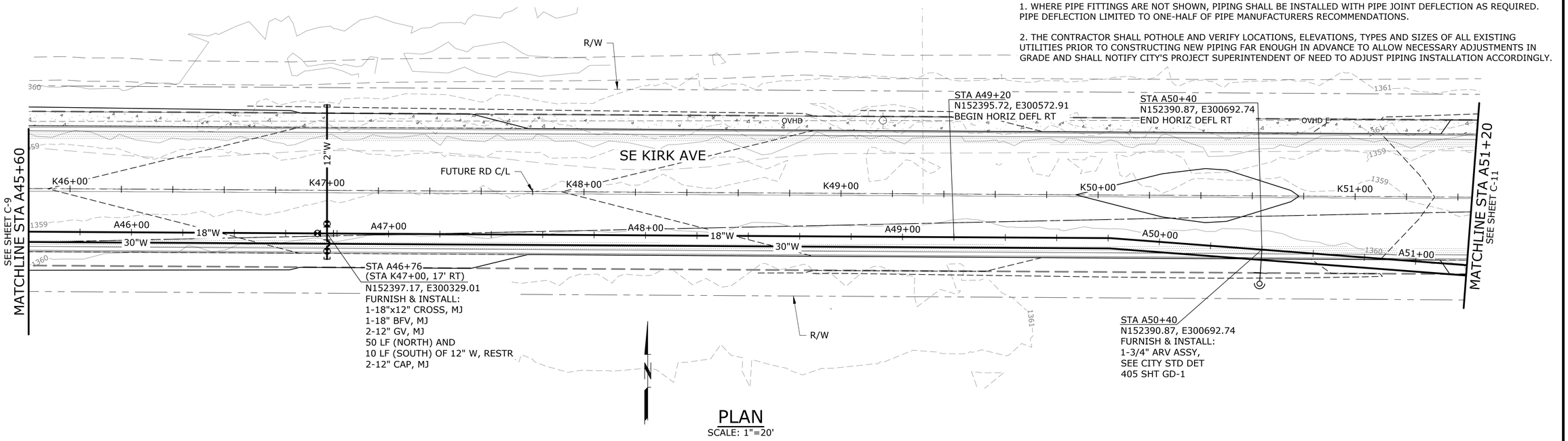

PLAN
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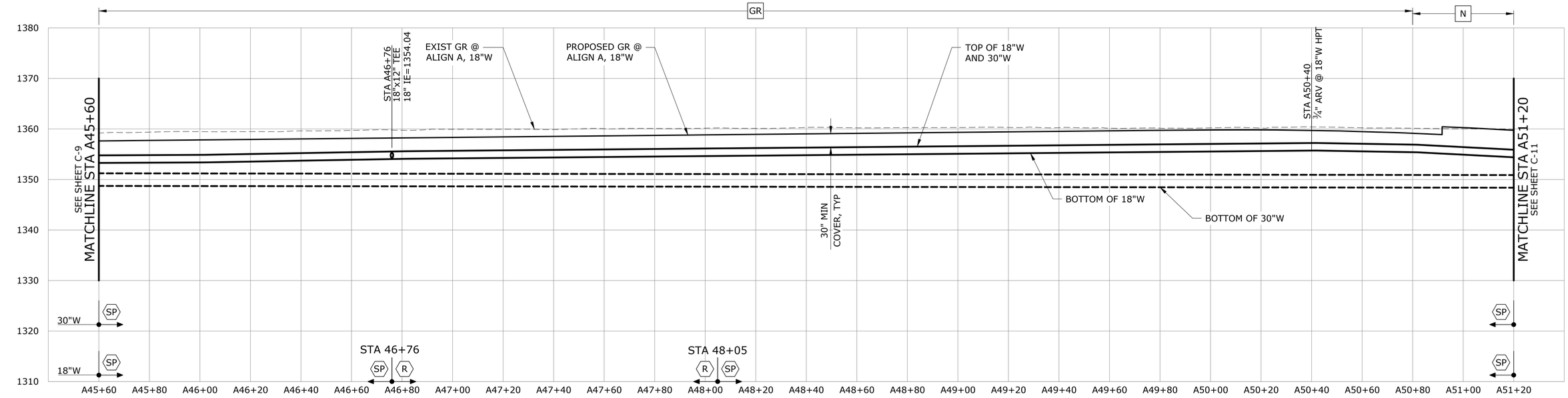

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REGISTERED PROFESSIONAL ENGINEER 76386 OREGON DECEMBER 29, 2006 LIAEL L. ALDERMAN RENEWS 12/31/2023

consor

CITY OF PENDLETON INCORPORATED 1880 OREGON

SCHEDULE A & B: CONNECTOR ROAD WATERLINES

CIVIL

PLAN AND PROFILE STA A45+60 TO STA A51+20

PROJECT NO.: 22-3530 | SCALE: AS SHOWN | DATE: JUNE 2023

SHEET C-10

21 of 28

G:\pdx_projects\22\3530 - Pendleton, City Of, Or - To23 Connector Road Waterlines\CAD\Sheets\22-3530-OR-C6-10.dwg C-10 4/21/2023 12:47 PM TAYLOR.SPENCER 23.0s (LMS Tech)

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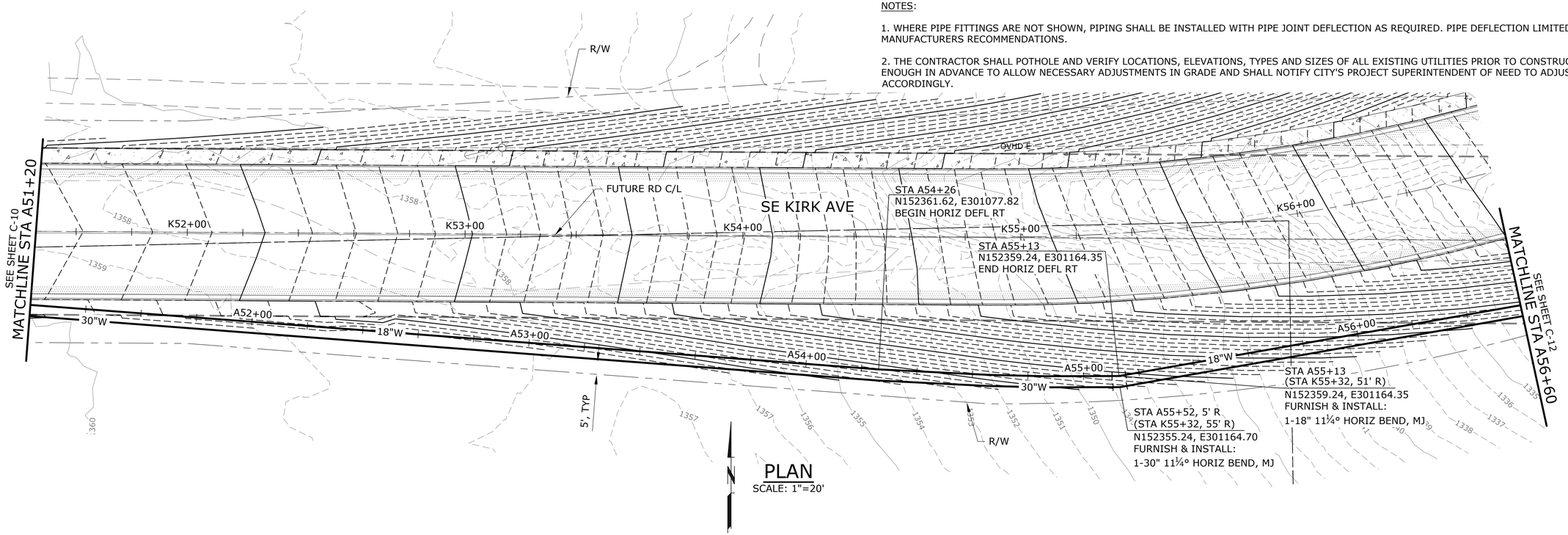
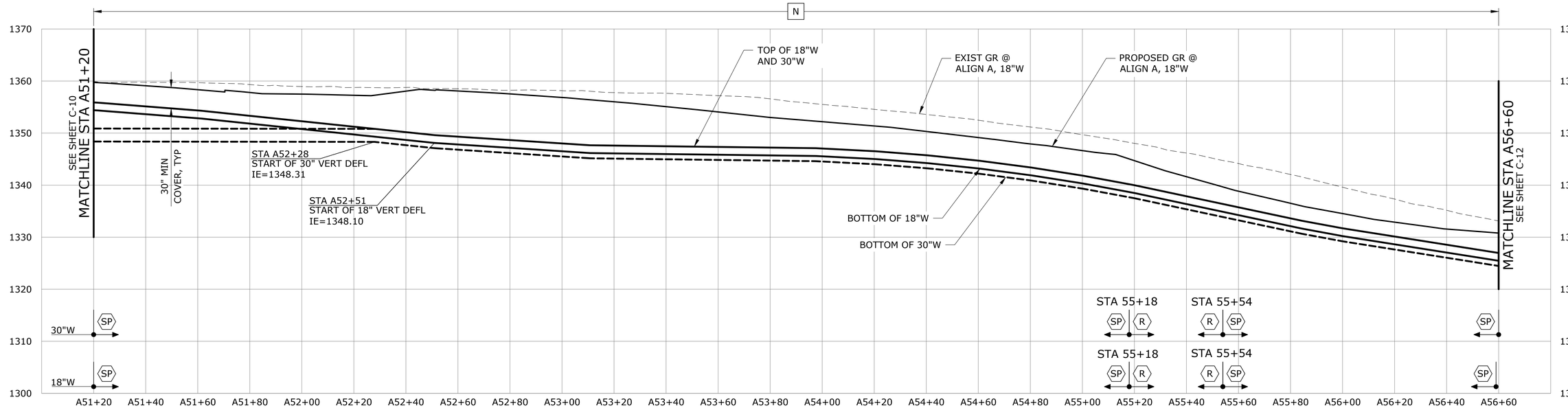


PLAN
SCALE: 1"=20'



PROFILE
SCALE: 1"=20' HORIZ, 1"=10' VERT

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REGISTERED PROFESSIONAL ENGINEER 76386 OREGON DECEMBER 19, 2008 LAEL L. ALDERMAN RENEWS 12/31/2023

consor

CITY OF PENDLETON INCORPORATED 1880 OREGON

SCHEDULE A & B: CONNECTOR ROAD WATERLINES

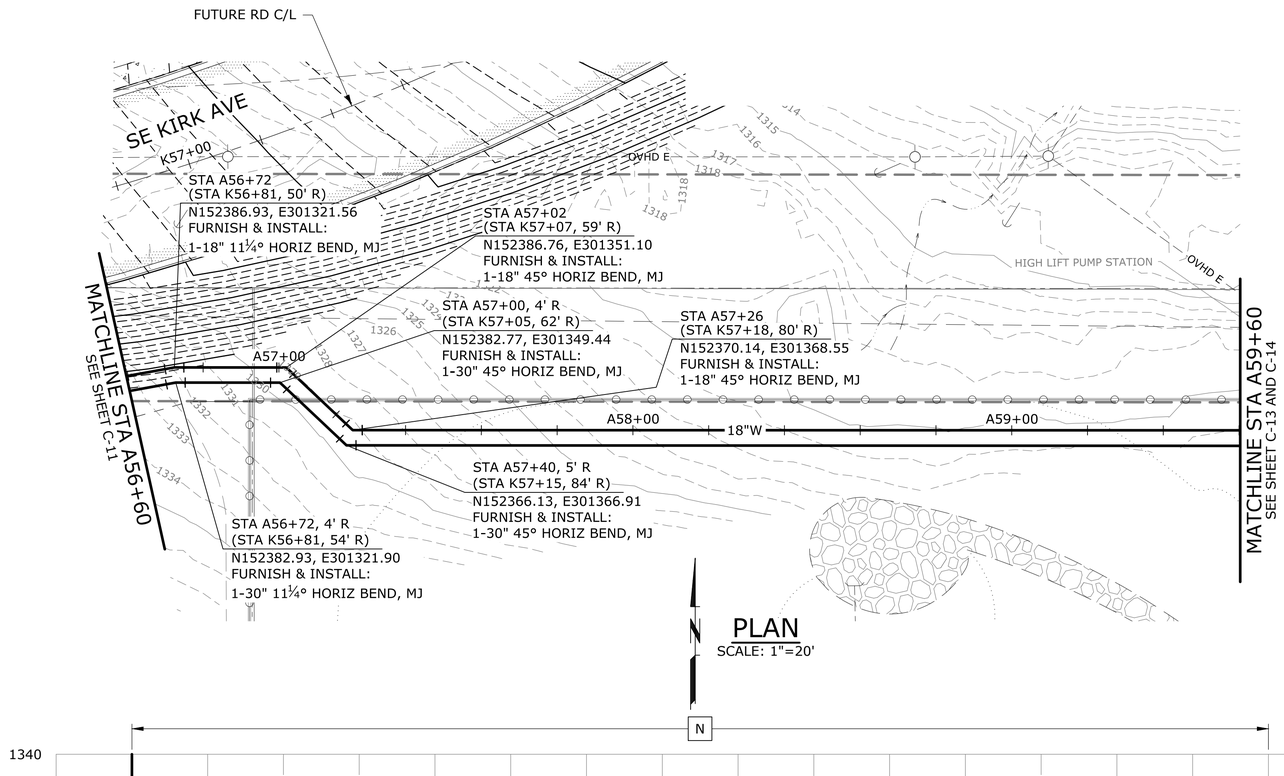
CIVIL

PLAN AND PROFILE
STA A51+20 TO STA A56+60

PROJECT NO.: 22-3530 | SCALE: AS SHOWN | DATE: JUNE 2023

SHEET C-11
22 of 28

G:\pdx_projects\22\3530 - Pendleton, City Of, Or - To23 Connector Road Waterlines\CAD\Sheets\22-3530-OR-C11-15.dwg C-11 4/21/2023 1:43 PM TAYLOR.SPENCER 23.0s (LMS Tech)



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REGISTERED PROFESSIONAL ENGINEER 76386 OREGON DECEMBER 29, 2006 LIAEL L. ALDERMAN RENEWS 12/31/2023

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CITY OF PENDLETON INCORPORATED 1880 OREGON

SCHEDULE A & B: CONNECTOR ROAD WATERLINES

CIVIL

PLAN AND PROFILE
STA A56+60 TO STA A59+60

PROJECT NO.: 22-3530 | SCALE: AS SHOWN | DATE: JUNE 2023

SHEET
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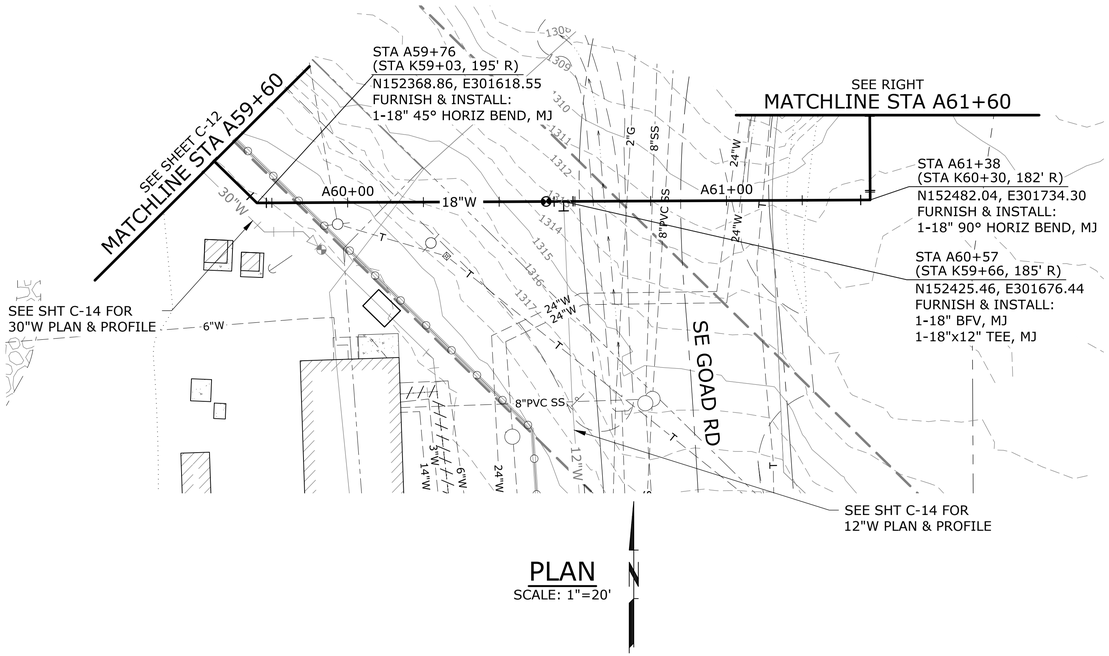
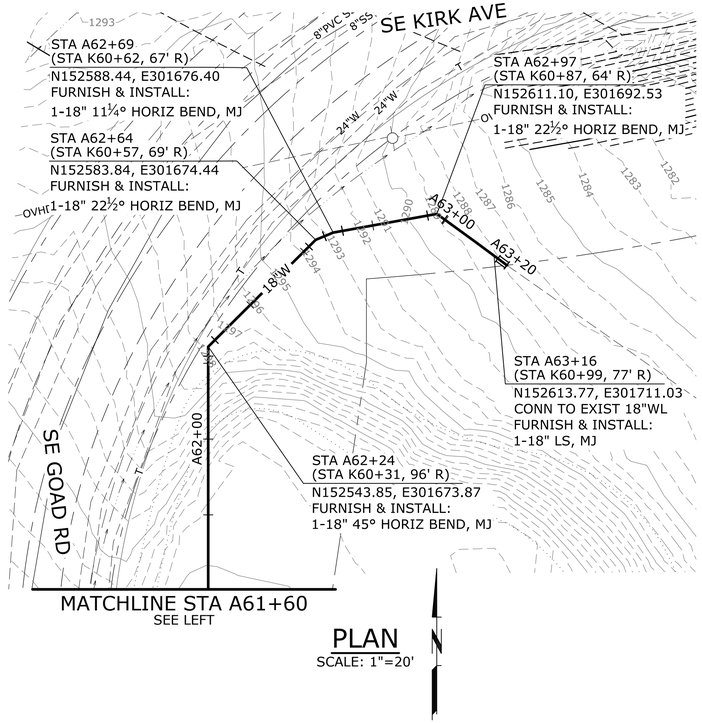
23 of 28

G:\pdx_projects\22\3530 - Pendleton, City Of, Or - To23 Connector Road Waterlines\CAD\Sheets\22-3530-OR-C11-15.dwg C-12 4/21/2023 1:43 PM TAYLOR.SPENCER 23.0s (LMS Tech)



PLAN
SCALE: 1"=20'



PLAN
SCALE: 1"=20'

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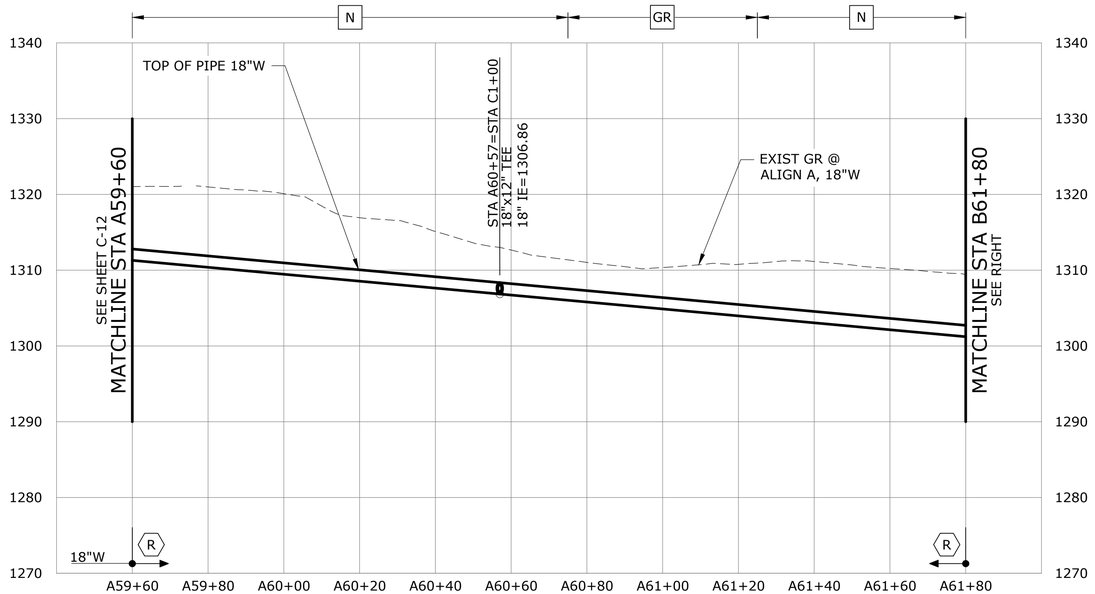
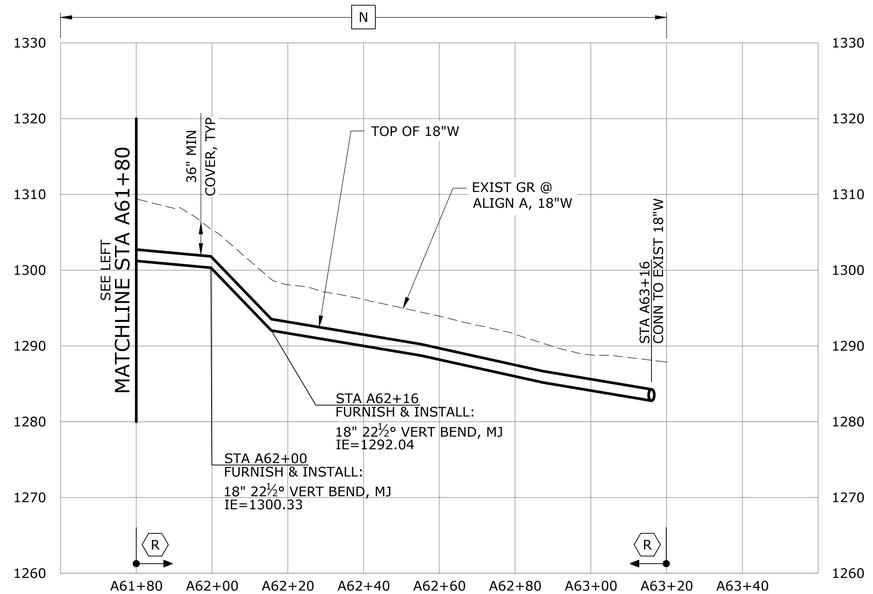


PROFILE
SCALE: 1"=20' HORIZ, 1"=10' VERT



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LLA CHECKED

REGISTERED PROFESSIONAL ENGINEER 76386 OREGON DECEMBER 29, 2006 LIAEL L. ALDERMAN RENEWS 12/31/2023

consor

CITY OF PENDLETON OREGON INCORPORATED 1880

SCHEDULE A & B: CONNECTOR ROAD WATERLINES

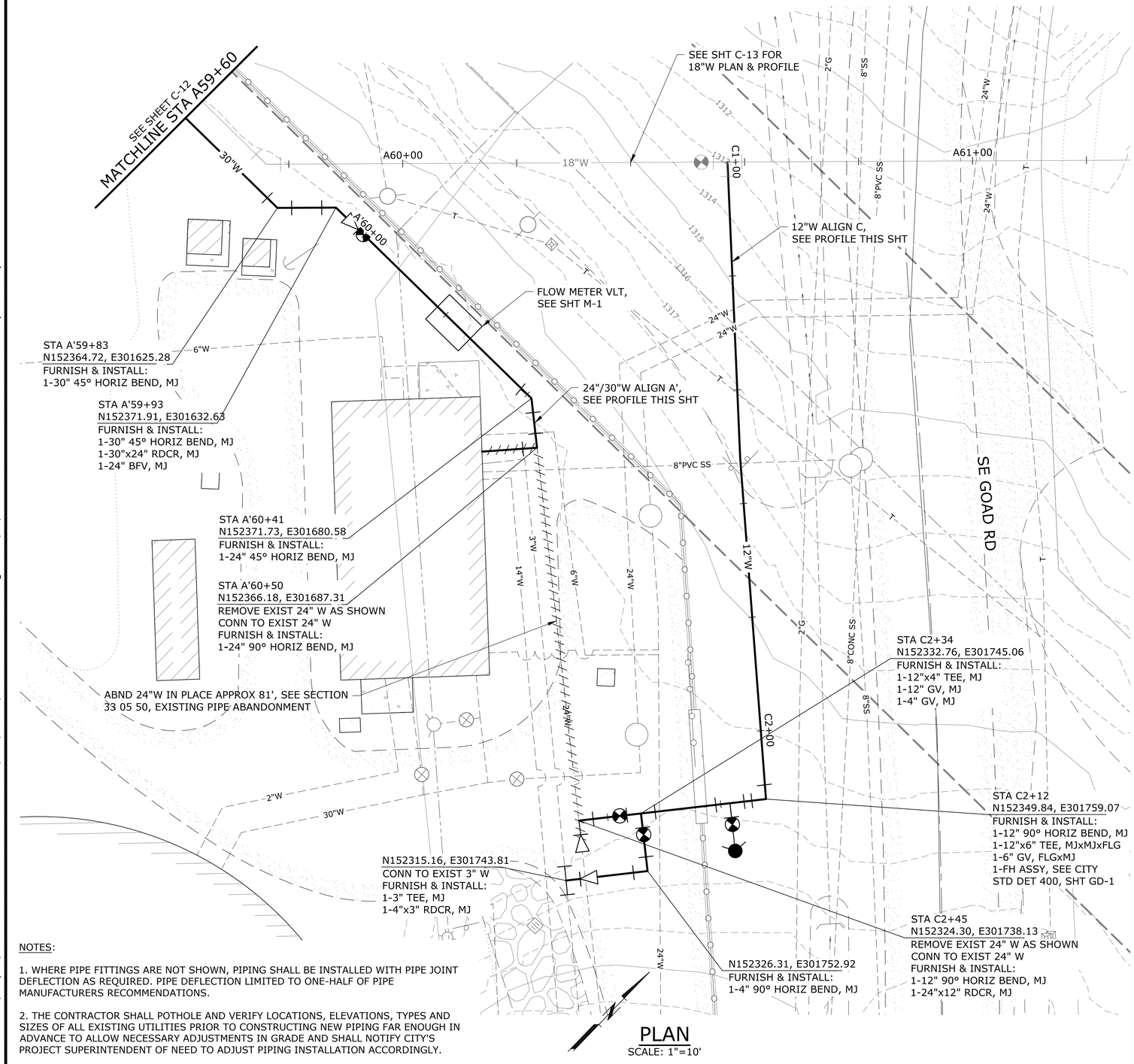
CIVIL

PLAN AND PROFILE
STA A59+60 TO STA A61+80

PROJECT NO.: 22-3530 | SCALE: AS SHOWN | DATE: JUNE 2023

SHEET
C-13
24 of 28

G:\pdx_projects\22\3530 - Pendleton, City Of, Or - To23 Connector Road Waterlines\CAD\Sheets\22-3530-OR-C11-15.dwg C-13 4/21/2023 1:43 PM TAYLOR.SPENCER 23.0s (LMS Tech)



PLAN
SCALE: 1"=10'

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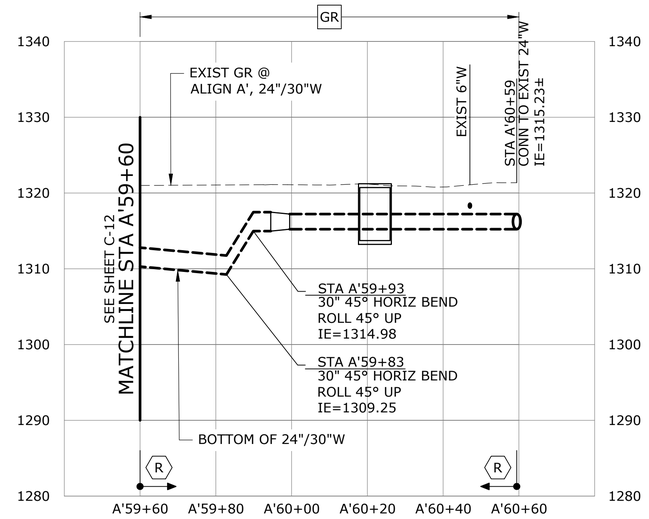
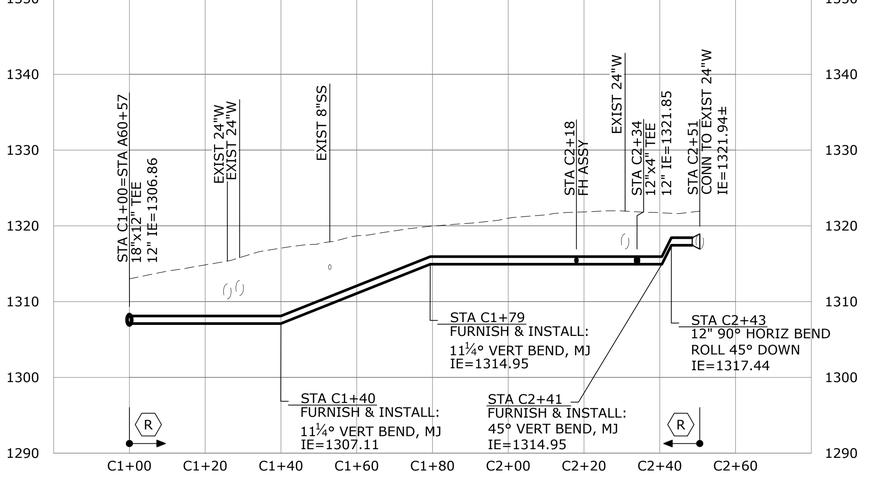


ALIGNMENT A', 24"/30"W
PROFILE
SCALE: 1"=20' HORIZ, 1"=10' VERT



ALIGNMENT C, 12"W
PROFILE
SCALE: 1"=20' HORIZ, 1"=10' VERT

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JSD DRAWN
LLA CHECKED

REGISTERED PROFESSIONAL ENGINEER 76386 OREGON DECEMBER 29, 2006 LIAEL L. ALDERMAN RENEWS 12/31/2023

consor

CITY OF PENDLETON INCORPORATED 1880 OREGON

SCHEDULE A & B: CONNECTOR ROAD WATERLINES

CIVIL

HIGH LEVEL PUMP STATION SITE PLAN & PROFILES

PROJECT NO.: 22-3530 | SCALE: AS SHOWN | DATE: JUNE 2023

SHEET C-14

25 of 28

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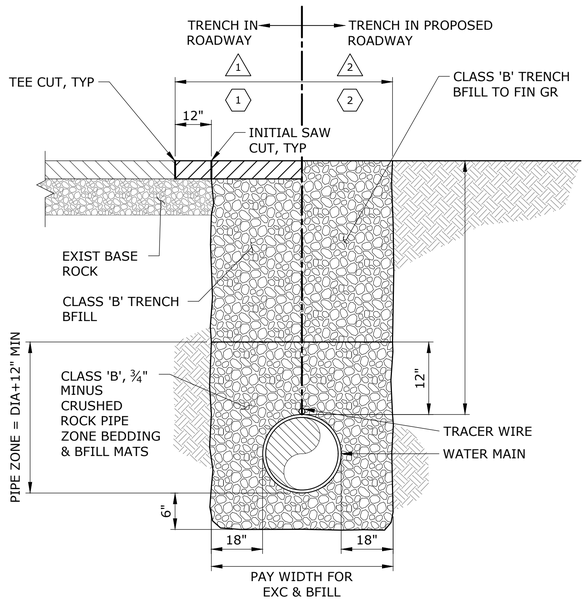
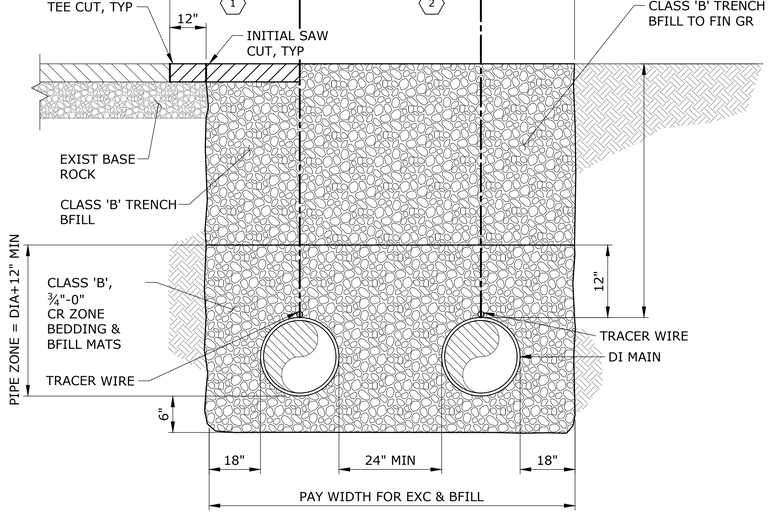




TYPICAL PIPE TRENCH DETAILS

SCALE: NTS

1 / -

SYMBOL — SURFACE RESTORATION REQUIREMENTS

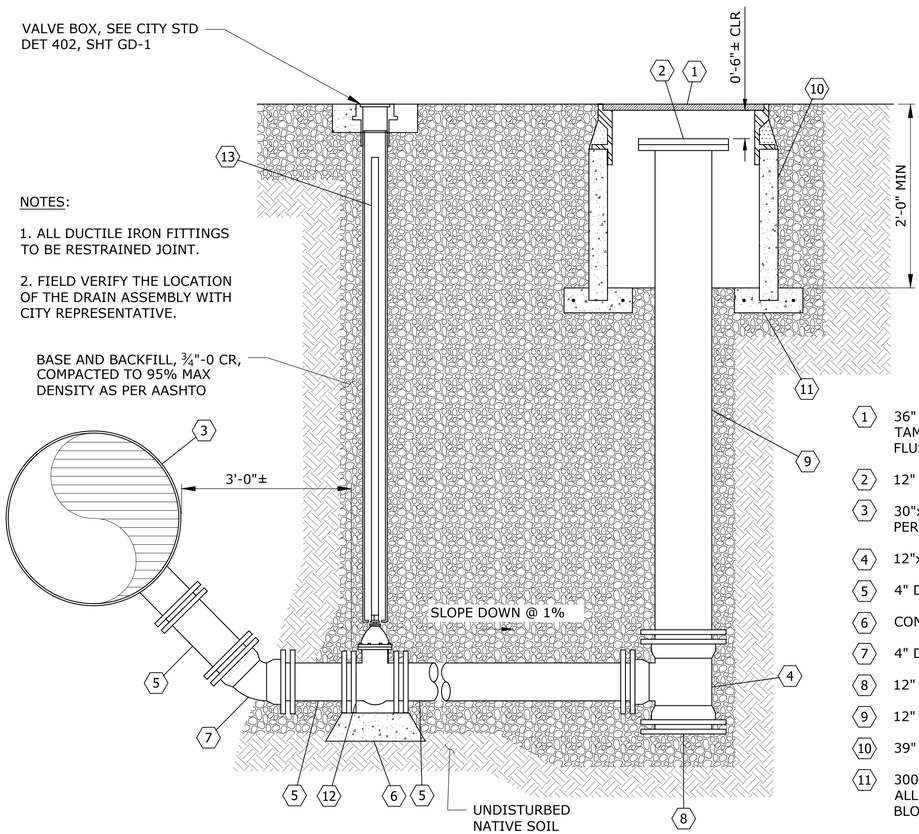
1. REPLACE REMOVED ASPHALT WITH A MINIMUM DEPTH OF 4", LEVEL 3 AC OR MATCH EXIST PAVEMENT DEPTH, WHICHEVER IS GREATER, TO A MAXIMUM DEPTH OF 6". SEE SPECIFICATIONS.

2. REPLACE TOPSOIL AND BACKFILL WITH CLASS 'A' NATIVE MATERIAL. FINISH TRENCH SURFACE TO MATCH ORIGINAL CONTOURS WITH FINAL 6" LIFT OF TOPSOIL, RESEED AS REQUIRED.

BACKFILL REQUIREMENTS

1. FURNISH AND INSTALL CLASS 'B' ¾"-0" IMPORTED GRANULAR BEDDING, PIPE ZONE AND TRENCH BACKFILL MATERIAL TO PAVEMENT BASE. COMPACT MATERIAL IN LIFTS TO ACHIEVE 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH AASHTO T-99.

2. FURNISH AND INSTALL CLASS 'B' ¾"-0" IMPORTED GRANULAR BEDDING AND PIPE ZONE BACKFILL MATERIAL COMPACTED TO 95% OF MAXIMUM DENSITY PER AASHTO T-99. FURNISH AND INSTALL CLASS 'B' 3/4"-0" IMPORTED GRANULAR TRENCH BACKFILL TO FINISH GRADE COMPACTED TO 95% MAXIMUM DENSITY PER AASHTO T-99.



NOTES:

1. ALL DUCTILE IRON FITTINGS TO BE RESTRAINED JOINT.

2. FIELD VERIFY THE LOCATION OF THE DRAIN ASSEMBLY WITH CITY REPRESENTATIVE.

4" BLOW-OFF ASSEMBLY

SCALE: NTS

2 / -

MATERIAL LIST

1. 36" H-20 TRAFFIC RATED TAMPER-PROOF MH COVER & FRAME, INSTALL FLUSH W/ CONC SLAB
2. 12" DI BLIND FLG
3. 30"x4" OR 18"x4" DI TEE, MJ, ROLLED DOWN 45°, PER PLAN
4. 12"x4" DI TEE, MJ
5. 4" DI PIPING & BENDS AS REQ'D, SEE NOTE 1
6. CONC PIER BLOCK, 12"x12"x6" (LxWxH)
7. 4" DI 45° BEND, MJ
8. 12" DI PLUG
9. 12" DI SPL, FLGxPE, LENGTH AS REQ'D
10. 39" CONC PIPE C-76 CLASS III
11. 3000 PSI CONC CONT FTG W/ 2-#5 REBAR HOOP ALL AROUND OR ENGINEER APPVD PRECAST CONC BLOCKING
12. 4" GV, MJ
13. VALVE STEM EXTENSION

NO.	DATE	BY	REVISION

NOTICE
0 ½ 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

MDP DESIGNED
MDP DRAWN
LLA CHECKED

REGISTERED PROFESSIONAL ENGINEER — 76386 — OREGON — DECEMBER 19, 2008 — LAEL L. ALDERMAN — RENEWS 12/31/2023

consor

CITY OF PENDLETON — INCORPORATED 1880 — OREGON

SCHEDULE A & B: CONNECTOR ROAD WATERLINES

CIVIL

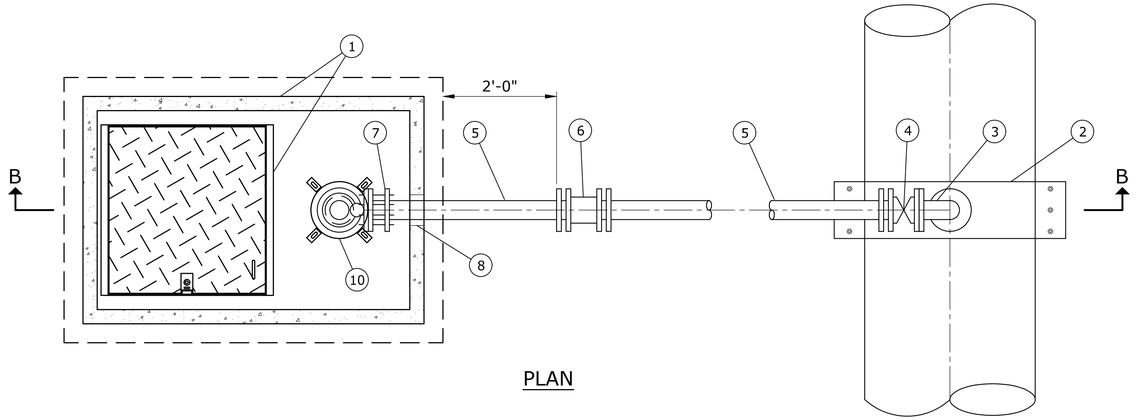
CIVIL DETAILS - 1

PROJECT NO.: 22-3530 | SCALE: AS SHOWN | DATE: JUNE 2023

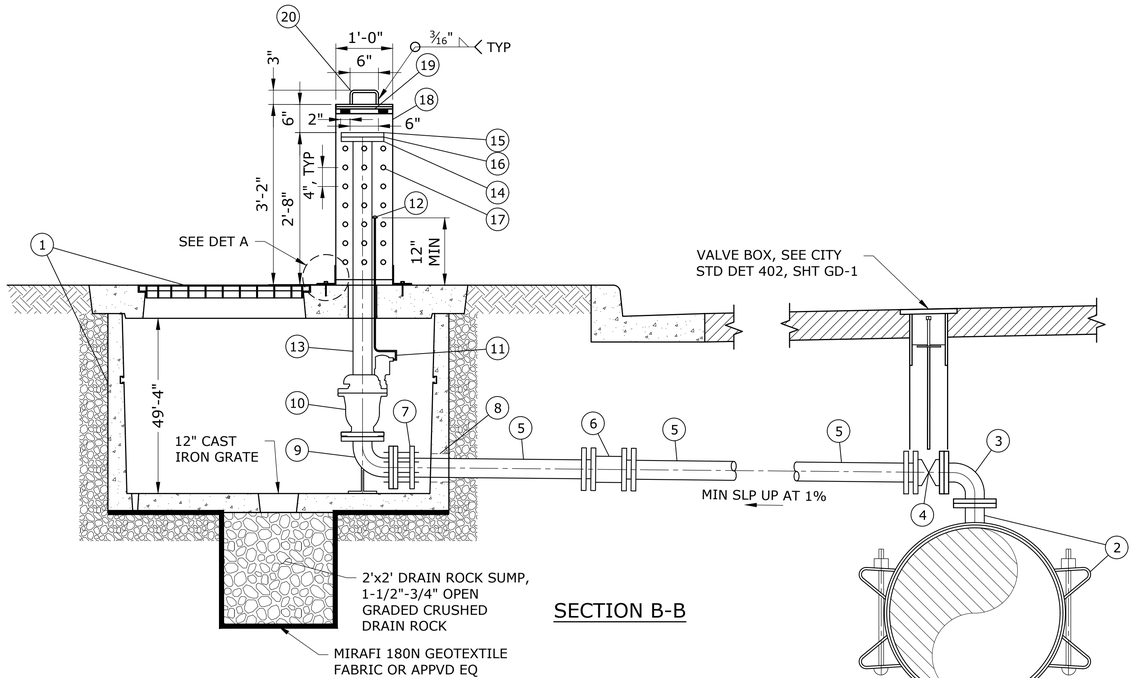
SHEET C-15

NOTES:

1. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE RESTRAINED.
2. VERIFY LOCATION OF VAULT AND VENT STAND PIPE WITH CITY.
3. ALL VAULT PENETRATIONS SHALL BE SEALED WITH WALL SEALS. USE LINK SEAL IN HOLES AROUND PIPE.
4. HOT DIP GALVANIZE ALL STEEL PARTS AFTER FABRICATION.
5. EXTERIOR TO BE UNPAINTED GALVANIZED STEEL.



PLAN



SECTION B-B

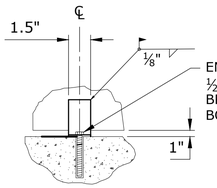
4" COMBINATION AIR RELEASE VACUUM (CARV) VALVE

SCALE: 3/4"=1'-0"

1
-

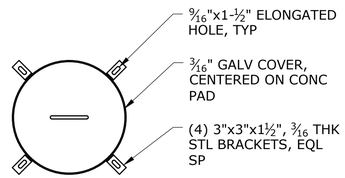
MATERIAL LIST

1. UTILITY VAULT, OLDCASTLE MODEL 644-LA W/ HATCH OFFSET, MODEL 64-332P, GALV STL OR APPVD EQ
2. 4" TAPPING SADDLE, FLG, ROMAC FTS420 W/ EPOXY COATING OR APPVD EQ
3. 4" DI 90° BEND, FLG
4. 4" GV, FLGxMJ
5. 4" DI SPL, PE
6. 4" DI LS, MJ
7. 4" MEGAFLANGE OR APPVD EQ
8. LINK-SEAL W/ NON-SHRINK GROUT, SEE NOTE 3
9. 4" DI 90° BEND, FLG W/ BASE, CONNECT BASE TO VAULT FLR W/ MFR RECOMMENDED BOLTS AND EMBEDMENT
10. 4" AIR/VAC VALVE, ARI D-060-C HF, OR APPVD EQ
11. 1" COP TUBING
12. 1" DBL OUTLET VENT
13. VENT PIPE, 4" GALV STL SCH 80, MIPTxMIPT
14. 4" GALV STL CLASS A FLG, FIPT
15. 4" GALV STL CLASS A RING FLG
16. #20 SCREEN, 1/8" 316 SST FASTENED BETWEEN CLASS A RING FLG AND PIPE FLG
17. 1½" DIA HOLES, (63) - EQL SP, 9 HOLES PER ROW, 7 ROWS TOTAL, TOTAL ORIFICE AREA SHOWN (HOLES, BOTTOM GAP AND TOP GAP) IS 0.50 SF
18. 3/16" THK, GALV COVER
19. (4) VENT OPENINGS, 6" WIDE x 1" TALL VENT OPENING WITH (4) EVENLY SPACED 2" WIDE SUPPORTS, FULL CIRCUMFERENCE
20. ½" DIA STL HANDLE



DETAIL A

SCALE: 1"=1'-0"



TOP VIEW

SCALE: 1"=1'-0"

NO.	DATE	BY	REVISION

NOTICE

0 ½ 1

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MDP DESIGNED

MDP DRAWN

LLA CHECKED

REGISTERED PROFESSIONAL ENGINEER 76386 OREGON DECEMBER 29, 2006 LAEL L. ALDERMAN RENEWS 12/31/2023

consor

CITY OF PENDLETON INCORPORATED 1880 OREGON

SCHEDULE A & B: CONNECTOR ROAD WATERLINES

CIVIL

CIVIL DETAILS - 2

PROJECT NO.: 22-3530 | SCALE: AS SHOWN | DATE: JUNE 2023

SHEET C-16

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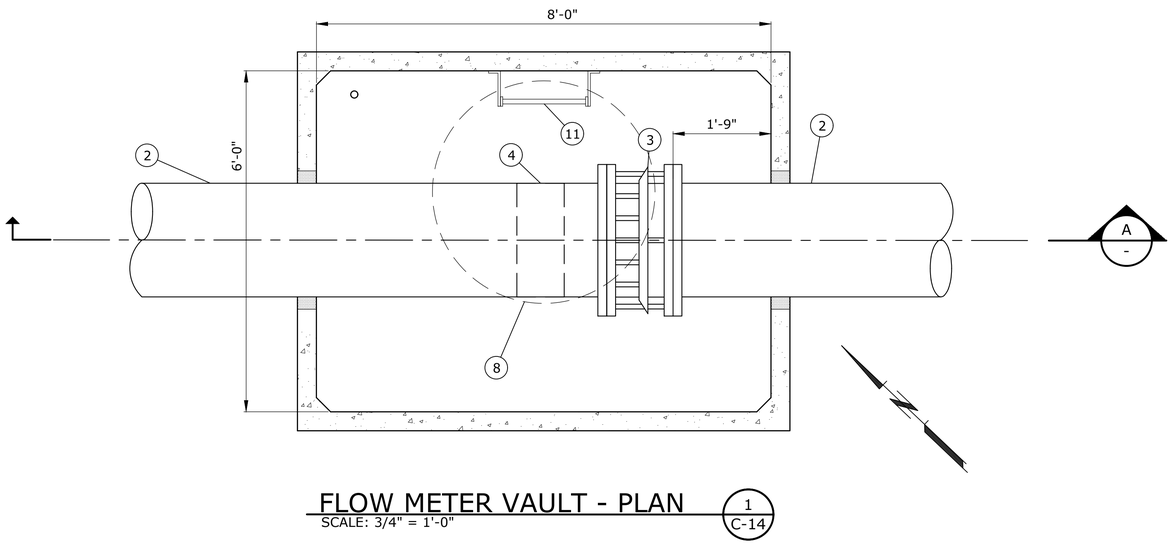
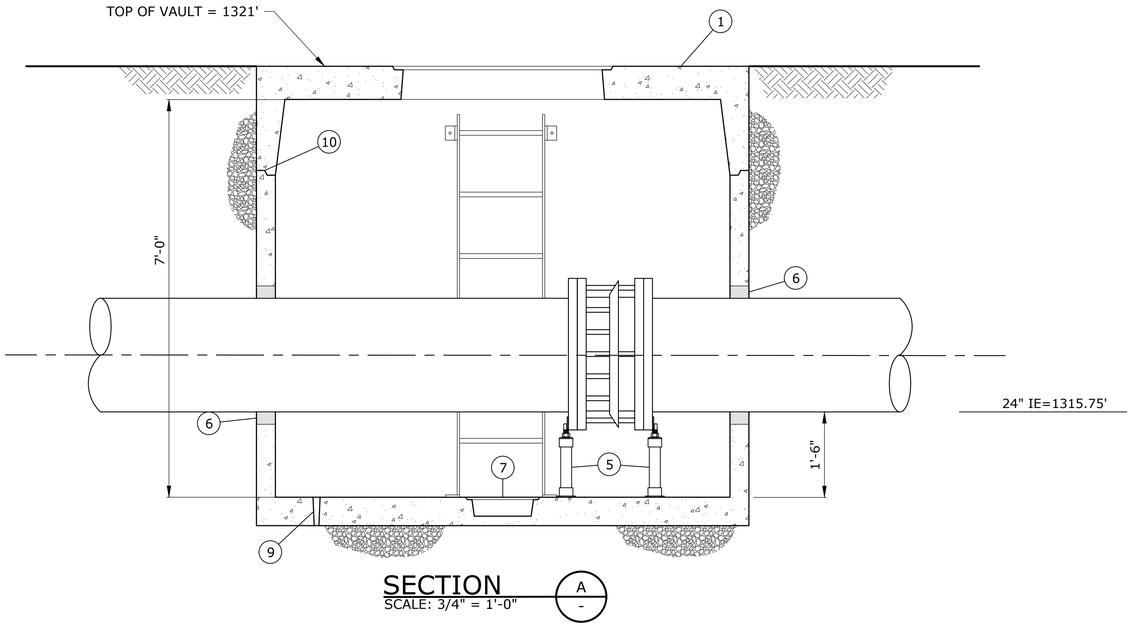
G:\pdx_projects\22\3530 - Pendleton, City Of, Or - To23 Connector Road Waterlines\CAD\Sheets\22-3530-OR-C-15-16.dwg C-16 4/20/2023 12:35 PM TAYLOR.SPENCER 23.0s (LMS Tech)



FLOW METER VAULT - PLAN (1 / C-14)
SCALE: 3/4" = 1'-0"



SECTION (A / -)
SCALE: 3/4" = 1'-0"

MATERIAL LIST

1. OLD CASTLE PRECAST VAULT, 687-LA OR APPVD EQ
2. 24" DI SPL, FLGxPE, LENGTH AS REQ'D
3. 24" DISMANTLING JT
4. 24" CLAMP-ON ULTRASONIC METER, FURNISHED AND INSTALLED BY OWNER
5. PIPE SUPPORT, STANDON MODEL S89 OR APPVD EQ
6. LINK-SEAL W/NON-SHRINK GROUT, TYP
7. 12" DIA FLOOR DRAIN
8. 42" DIA ACCESS MH LID
9. 1" DIA GROUND ROD KNOCKOUT
10. BUTYL RESIN SEALANT
11. ACCESS LADDER

NOTES:

1. PROVIDE RESTRAINED JOINT ON PIPING, 2' FROM OUTSIDE EDGE OF VAULTS, TYPICAL.

2. WALL PENETRATIONS FOR PIPING TO BE PRECAST IN VAULTS, PROVIDE NON-SHRINK GROUT SEAL AROUND PIPE.

3. LADDER TO BE SECURED TO VAULT FLOOR AND WALL. USE CINCH ANCHORS ON LADDER AND PIPE STANDS.

4. POSITION ACTIVE LEAF OF ACCESS DOOR OVER LADDER.

5. PAINT PIPING AND SPECIALS IN VAULT. SEE SPECIFICATIONS.

6. FOR ALL FLANGES NEAR WALL PENETRATIONS FOR WHICH NO DIMENSION IS GIVEN, FLANGE FACE MUST BE 6" MINIMUM FROM WALL.

7. PIPE SUPPORTS ARE SHOWN IN SOME LOCATIONS. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION AND NUMBER OF ALL ADDITIONAL SUPPORTS TO PROPERLY SUPPORT PIPING, VALVES AND EQUIPMENT CONNECTIONS TO PREVENT DEFLECTION AND STRESSES.

NO.	DATE	BY	REVISION

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0 ½ 1
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CITY OF PENDLETON — INCORPORATED 1880 — OREGON

SCHEDULE A & B: CONNECTOR ROAD WATERLINES

MECHANICAL

HIGH LEVEL PUMP STATION FLOW METER VAULT PLAN AND SECTION

PROJECT NO.: 22-3530 | SCALE: AS SHOWN | DATE: JUNE 2023

SHEET M-1

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