Exhibit A.5

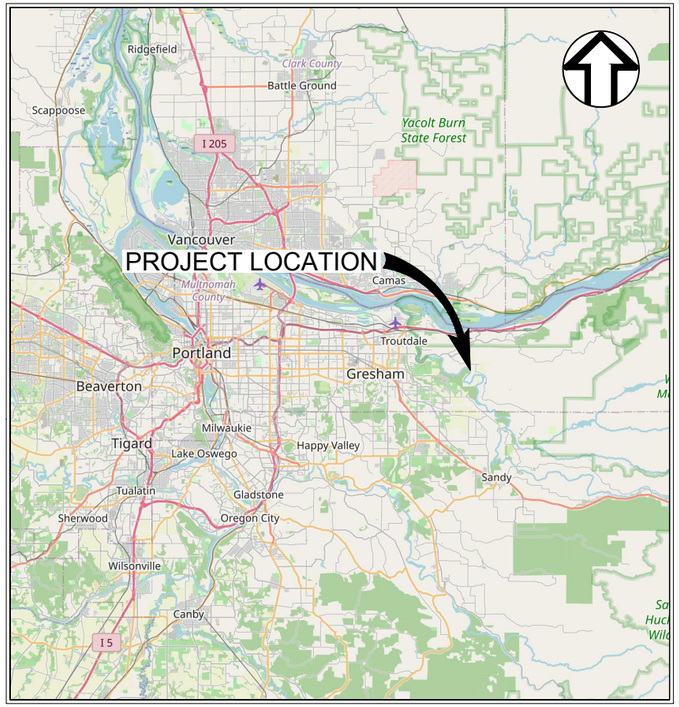
EXHIBIT 3a

METRO

OXBOW PARK WELCOME CENTER WATER SYSTEM

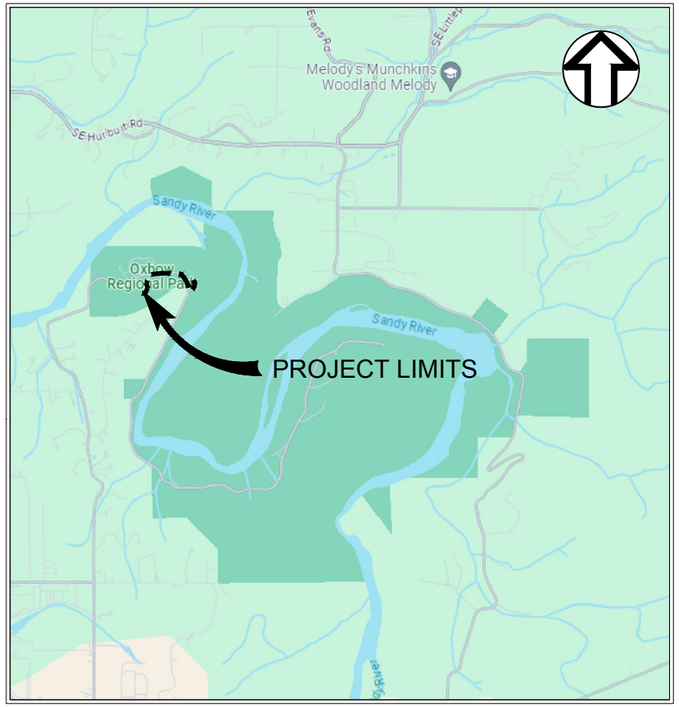
NOVEMBER 2023

PRELIMINARY



LOCATION MAP

NOT TO SCALE



PROJECT SITE MAP

NOT TO SCALE

wallis engineering

Civil Engineer: Wallis Engineering
215 W. 4th Ave., Suite 200
Vancouver, Washington 98660
Contact: Jane Vail, P.E.
(360) 852-9158
jane.vail@walliseng.net

Metro

Owner: Metro
600 NE Grand Ave.
Portland, Oregon 97232-2736
Contact: Ben Hedstrom, Senior Regional Planner
(503) 382-7635
Ben.Hedstrom@oregonmetro.gov

PRELIMINARY

NO.	REVISION	BY	DATE
XX	AP/TS	AP	

DESIGNED BY: AP
DRAWN BY: AP/TS
REV: XX

ONE INCH
0 1"
ONE INCH AT FULL SCALE
IF NOT ONE INCH ADJUST
SCALE ACCORDINGLY

COVER

wallis engineering

PROJECT NO: 1544C
DATE: 11/2023

OXBOW PARK
WELCOME CENTER
WATER SYSTEM

Metro

DRAWING NO:

G1

P:\1544C Oxbow Welcome Center Water System\500 DWG\501 Plan Sheets\1544C-Cover.dwg, 3/4/2024 2:20:28 PM, Chad Keys

INDEX TO SHEETS

PRELIMINARY

NO.	REVISION	BY	DATE

DESIGNED BY: AP
DRAWN BY: AP/TS
REV: XX

ONE INCH
0 1"
ONE INCH AT FULL SCALE.
IF NOT ONE INCH ADJUST
SCALE ACCORDINGLY

GENERAL NOTES

wallis engineering

PROJECT NO: 1544C
DATE: 11/2023

OXBOW PARK
WELCOME CENTER
WATER SYSTEM

Metro

DRAWING NO:
G2

LEGEND

EXISTING

- RIGHT OF WAY
- PROPERTY LINE
- EASEMENT
- ASPHALT
- CURB
- CONCRETE SIDEWALK
- GRAVEL
- BRICK
- FENCE
- STRIPING
- MAJOR CONTOUR
- MINOR CONTOUR
- BUILDING
- SANITARY SEWER, SIZE NOTED IF KNOWN
- STORM SEWER, SIZE NOTED IF KNOWN
- DITCH
- WATER, SIZE NOTED IF KNOWN
- OVERHEAD POWER
- UNDERGROUND POWER
- UNDERGROUND COMMUNICATIONS
- CATCH BASIN
- DOWNSPOUT
- SANITARY SEWER MANHOLE
- CLEANOUT
- WATER MANHOLE
- WATER VAULT
- WATER METER
- WATER VALVE
- IRRIGATION VALVE
- WATER SPIGOT
- WATER FOUNTAIN
- WATER PLAY STRUCTURE
- SINK
- ELECTRIC METER
- ELECTRICAL SWITCH
- TELEPHONE RISER
- COMMUNICATION JUNCTION BOX
- UTILITY VENT
- FUEL PUMP
- MANHOLE
- POLE MOUNTED LUMINAIRE
- LUMINAIRE
- GUY ANCHOR
- UTILITY POLE
- BOLLARD
- SIGN
- PILLAR
- PICNIC TABLES
- BBQ
- WHEEL STOP
- TRASH BIN
- FLAG POLE
- CHARCOAL BIN
- WETLAND
- BENCH MARK
- STUMP
- TREES
- HEDGE/BRUSH LINE

PROPOSED

- 6" W — WATERLINE, SIZE NOTED
- 4" IR — IRRIGATION LINE, SIZE NOTED
- WATER METER
- WATER VALVE
- FIRE HYDRANT
- REDUCER
- STRADDLE BLOCK
- THRUST BLOCK
- TEE
- BEND
- CAP
- AIR RELEASE VALVE
- WATER FOUNTAIN
- BOLLARD
- SAWCUT LIMITS
- ASPHALT RESTORATION
- SEEDING RESTORATION
- GRAVEL RESTORATION
- AC PATH RESTORATION

PRELIMINARY

NO.	REVISION	BY	DATE

DESIGNED BY: AP
DRAWN BY: AP/TS
REV: XX

ONE INCH AT FULL SCALE.
IF NOT ONE INCH ADJUST SCALE ACCORDINGLY
0 1"

LEGEND

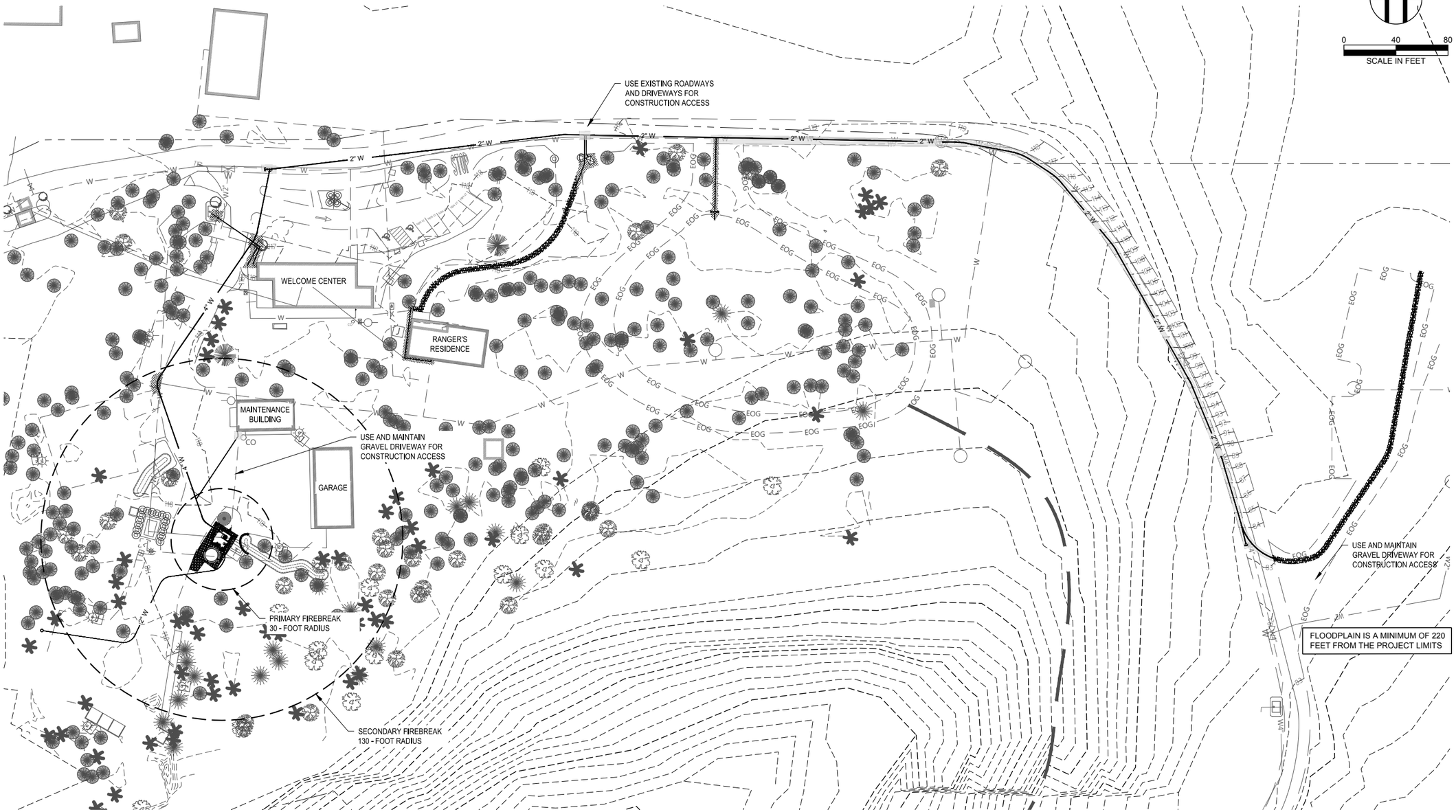
wallis engineering

PROJECT NO: 1544C
DATE: 11/2023

OXBOW PARK
WELCOME CENTER
WATER SYSTEM

Metro

DRAWING NO:
G3



PLAN

EROSION CONTROL LEGEND

- LIMITS OF DISTURBED GRAVEL SURFACE
- LIMITS OF DISTURBED VEGETATED SURFACE
- LIMITS OF DISTURBED IMPERVIOUS SURFACE
- INSTALL STRAW WATTLE OR SILT FENCE

DISTURBED SURFACE AREAS

3,050 S.F.	DISTURBED GRAVEL SURFACE
1,200 S.F.	DISTURBED VEGETATED SURFACE
3,250 S.F.	DISTURBED IMPERVIOUS SURFACE (TO BE REPLACED)
7,500 S.F.	TOTAL DISTURBED SURFACE AREA WITHIN PROJECT LIMITS

PRELIMINARY

NO.	REVISION	BY	DATE
XX	AP/TS		

DESIGNED BY: AP
DRAWN BY:
REV:

ONE INCH
0 1"
ONE INCH AT FULL SCALE.
IF NOT ONE INCH ADJUST SCALE ACCORDINGLY

EROSION CONTROL PLAN

wallis engineering

PROJECT NO: 1544C
DATE: 11/2023

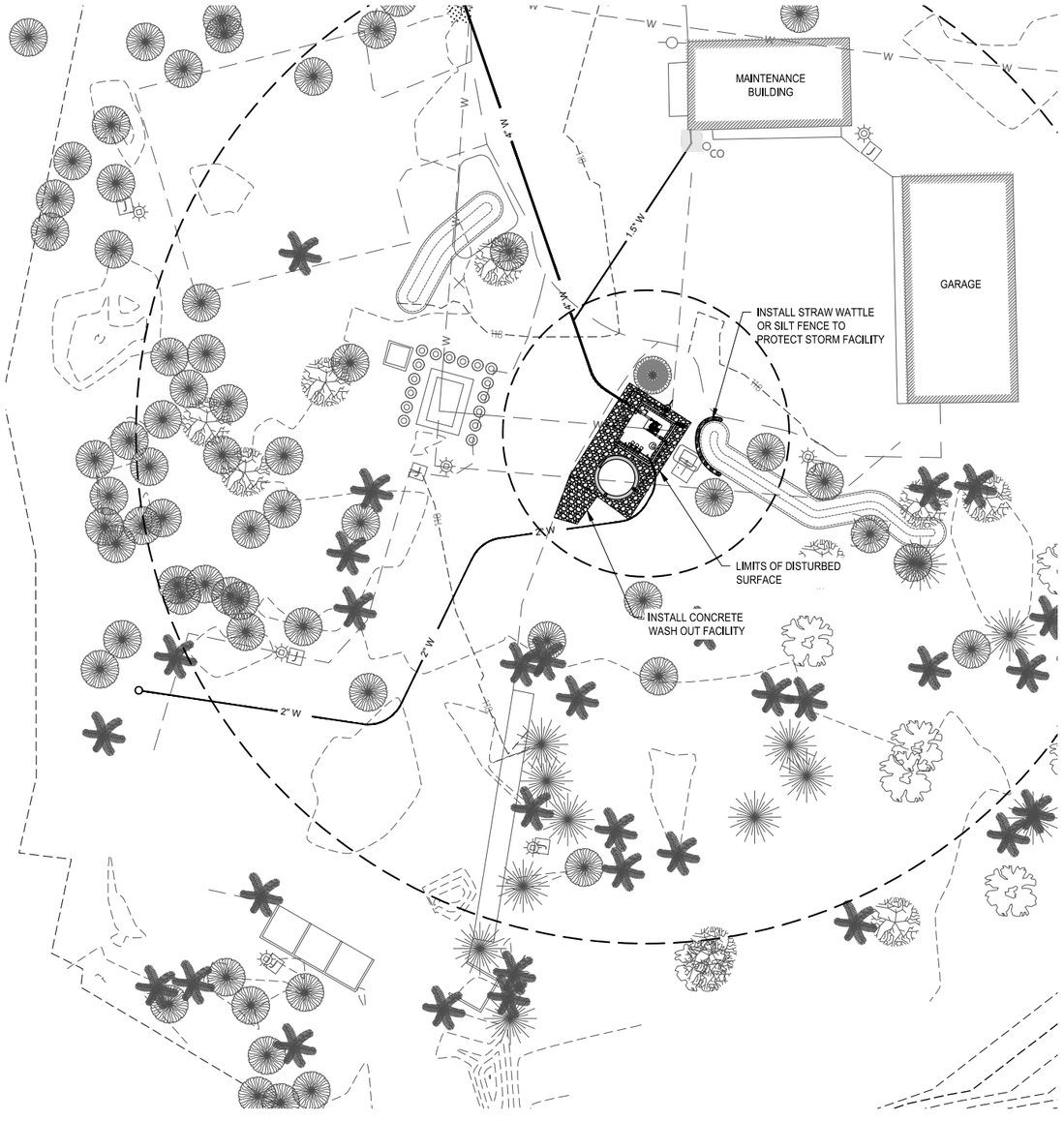
OXBOW PARK
WELCOME CENTER
WATER SYSTEM

Metro

DRAWING NO:
G4

STANDARD EROSION AND SEDIMENTATION CONTROL NOTES:

1. UNDER NO CONDITION SHALL SEDIMENT BE WASHED INTO STORM OR DRAINAGE FACILITIES.
2. STORM AND DRAINAGE FACILITIES SHALL BE PROTECTED USING THE APPROVED BEST MANAGEMENT PRACTICE (BMP) AT ALL TIMES DURING CONSTRUCTION.
3. EFFECTIVE EROSION CONTROL. DUST CONTROL, AND DRAINAGE CONTROL IS REQUIRED AT ALL TIMES. THE COUNTY MAY ORDER STOPPAGE OF WORK TO EFFECT CORRECTIVE ACTION AT ANY TIME.
4. APPLY TEMPORARY AND PERMANENT SOIL STABILIZATION MEASURES ON ALL DISTURBED AREAS AS GRADING PROGRESSES.
5. CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION AND CREATION OF BARE GROUND FROM OCTOBER 1 THROUGH MAY 31.
6. DURING WET WEATHER PERIODS TEMPORARY STABILIZATION OF THE SITE MUST OCCUR AT THE END OF EACH WORK DAY IF RAINFALL IS FORECAST IN THE NEXT 24 HOURS.
7. ALL EROSION AND SEDIMENT CONTROLS NOT IN THE DIRECT PATH OF WORK MUST BE INSTALLED PRIOR TO ANY LAND DISTURBANCE.
8. PRESERVE EXISTING VEGETATION AND RE-VEGETATE OPEN AREAS WHEN PRACTICAL BEFORE AND AFTER GRADING OR CONSTRUCTION.
9. ALL TEMPORARY SEDIMENT CONTROLS MUST REMAIN IN PLACE UNTIL PERMANENT VEGETATION OR OTHER PERMANENT COVERING OF EXPOSED SOIL IS ESTABLISHED.
10. SEDIMENT CONTROLS MUST BE INSTALLED AND MAINTAINED ON ALL DOWN GRADIENT SIDES OF THE CONSTRUCTION SITE AT ALL TIMES DURING CONSTRUCTION.
11. WATERTIGHT TRUCKS MUST BE USED TO TRANSPORT SATURATED SOILS FROM THE CONSTRUCTION SITE. AN APPROVED EQUIVALENT IS TO DRAIN THE SOIL ON-SITE AT A DESIGNATED LOCATION USING APPROPRIATE BMP's; SOIL MUST BE DRAINED SUFFICIENTLY FOR MINIMAL SPILLAGE.
12. TEMPORARY STABILIZATION OR COVERING OF SOIL STOCKPILES MUST OCCUR AT THE END OF EACH WORK DAY OR OTHER BMP's MUST BE IMPLEMENTED TO PREVENT TURBID DISCHARGES TO SURFACE WATERS.
13. DEVELOP AND MAINTAIN ONSITE A WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURE.
14. ANY USE OF TOXIC OR OTHER HAZARDOUS MATERIALS MUST INCLUDE PROPER STORAGE, APPLICATION, AND DISPOSAL.
15. THE PERMITEE MUST PROPERLY PREVENT AND MANAGE HAZARDOUS WASTE, USED OILS, CONTAMINATED SOILS, CONCRETE WASTE, SANITARY WASTE, LIQUID WASTE, OR OTHER TOXIC SUBSTANCES DISCOVERED OR GENERATED DURING CONSTRUCTION.
16. SIGNIFICANT AMOUNTS OF SEDIMENT WHICH LEAVE THE SITE MUST BE CLEANED UP WITHIN 24 HOURS AND PLACED BACK ON THE SITE AND STABILIZED OR PROPERLY DISPOSED. THE CAUSE OF THE SEDIMENT RELEASE MUST BE FOUND AND PREVENTED FROM CAUSING A REOCCURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DIVISION OF STATE LANDS REQUIRED TIME FRAME.
17. SEDIMENT MUST NOT BE INTENTIONALLY WASHED INTO STORM SEWERS, DRAINAGE WAYS, OR WATER BODIES. DRY SWEEPING MUST BE USED TO CLEAN UP RELEASED SEDIMENTS.
18. THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW THE MANUFACTURER'S RECOMMENDATIONS. NUTRIENT RELEASES FROM FERTILIZERS TO SURFACE WATERS MUST BE MINIMIZED. TIME RELEASE FERTILIZERS SHOULD BE USED AND CARE SHOULD BE TAKEN IN THE APPLICATION OF FERTILIZERS WITHIN ANY WATER WAY RIPARIAN ZONE.
19. SEDIMENT MUST BE REMOVED FROM BEHIND SEDIMENT FENCE WHEN VEGETATION HAS REACHED THE HEIGHT OF THE FENCE ABOVE THE GROUND, AND BEFORE FENCE REMOVAL.
20. SEDIMENT MUST BE REMOVED FROM BEHIND BIO BAGS AND OTHER BARRIERS WHEN IT HAS REACHED A HEIGHT OF TWO (2) INCHES AND BEFORE BMP REMOVAL.
21. CLEANING OF TRAPPED CATCH BASINS MUST OCCUR WHEN THE SEDIMENT RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY (50) PERCENT, AND AT COMPLETION OF PROJECT.
22. REMOVAL OF TRAPPED SEDIMENT IN A SEDIMENT BASIN OR SEDIMENT TRAP MUST OCCUR WHEN THE SEDIMENT RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY (50) PERCENT, AND AT COMPLETION OF PROJECT.
23. DEQ MUST APPROVE OF ANY TREATMENT SYSTEM AND OPERATIONAL PLAN THAT MAY BE NECESSARY TO TREAT CONTAMINATED CONSTRUCTION DEWATERING OR SEDIMENT AND TURBIDITY IN STORMWATER RUNOFF.
24. SHOULD ALL CONSTRUCTION ACTIVITIES CEASE FOR THIRTY (30) DAYS OR MORE, THE ENTIRE SITE MUST BE TEMPORARILY STABILIZED USING VEGETATION OR A HEAVY MULCH LAYER, TEMPORARY SEEDING, OR OTHER METHOD.
25. SHOULD CONSTRUCTION ACTIVITIES CEASE FOR FIFTEEN (15) DAYS OR MORE ON ANY SIGNIFICANT PORTION OF A CONSTRUCTION SITE, TEMPORARY STABILIZATION IS REQUIRED FOR THAT PORTION OF THE SITE WITH STRAW, COMPOST, OR OTHER COVERING THAT WILL PREVENT SOIL OR WIND EROSION UNTIL WORK RESUMES ON THAT PORTION OF THE SITE.



PLAN

0 20 40
SCALE IN FEET

PRELIMINARY

NO.	REVISION	BY	DATE

DESIGNED BY: AP
DRAWN BY: AP/TS
REV: XX

ONE INCH
0 1"
ONE INCH AT FULL SCALE. IF NOT ONE INCH ADJUST SCALE ACCORDINGLY

EROSION CONTROL PLAN

wallis engineering

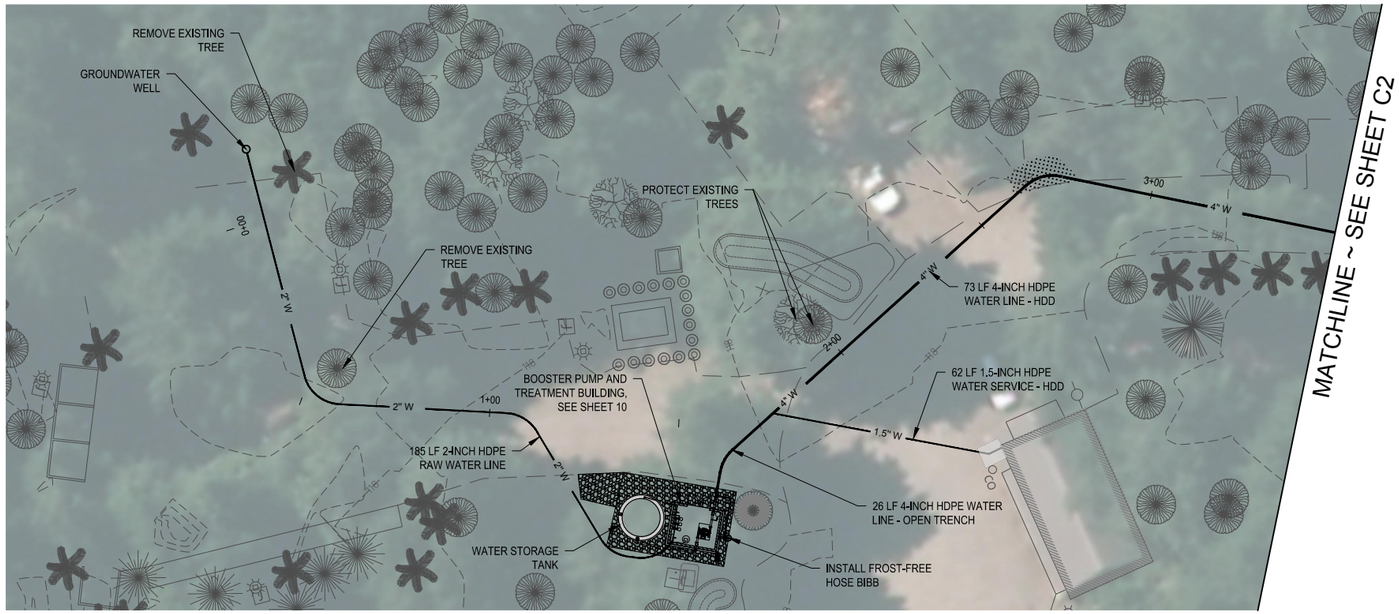
PROJECT NO: 1544C
DATE: 11/2023

OXBOW PARK
WELCOME CENTER
WATER SYSTEM

Metro

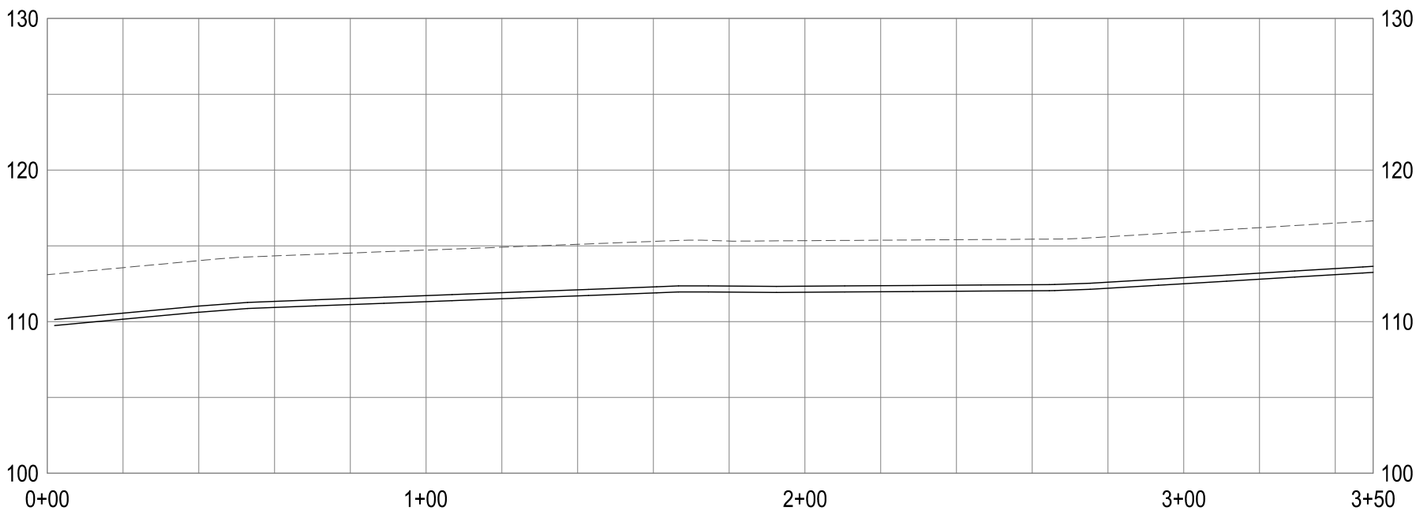
DRAWING NO:
G5
5 OF 12

P:\15\1544C Oxbow Welcome Center Water System\500 DWG\501 Plan Sheets\1544C-Erosion Control Plan.dwg, 3/4/2024 2:21:25 PM, Chad Kays



PLAN

0 20 40
SCALE IN FEET



PROFILE
SCALE: 1" = 20' HORIZ
1" = 5' VERT

PRELIMINARY

NO.	REVISION	BY	DATE

DESIGNED BY: AP
DRAWN BY: AP/TS
REV: XX

ONE INCH
0 1"
ONE INCH AT FULL SCALE.
IF NOT ONE INCH ADJUST
SCALE ACCORDINGLY

PLAN & PROFILE BEGIN
TO STA 3+50

wallis engineering

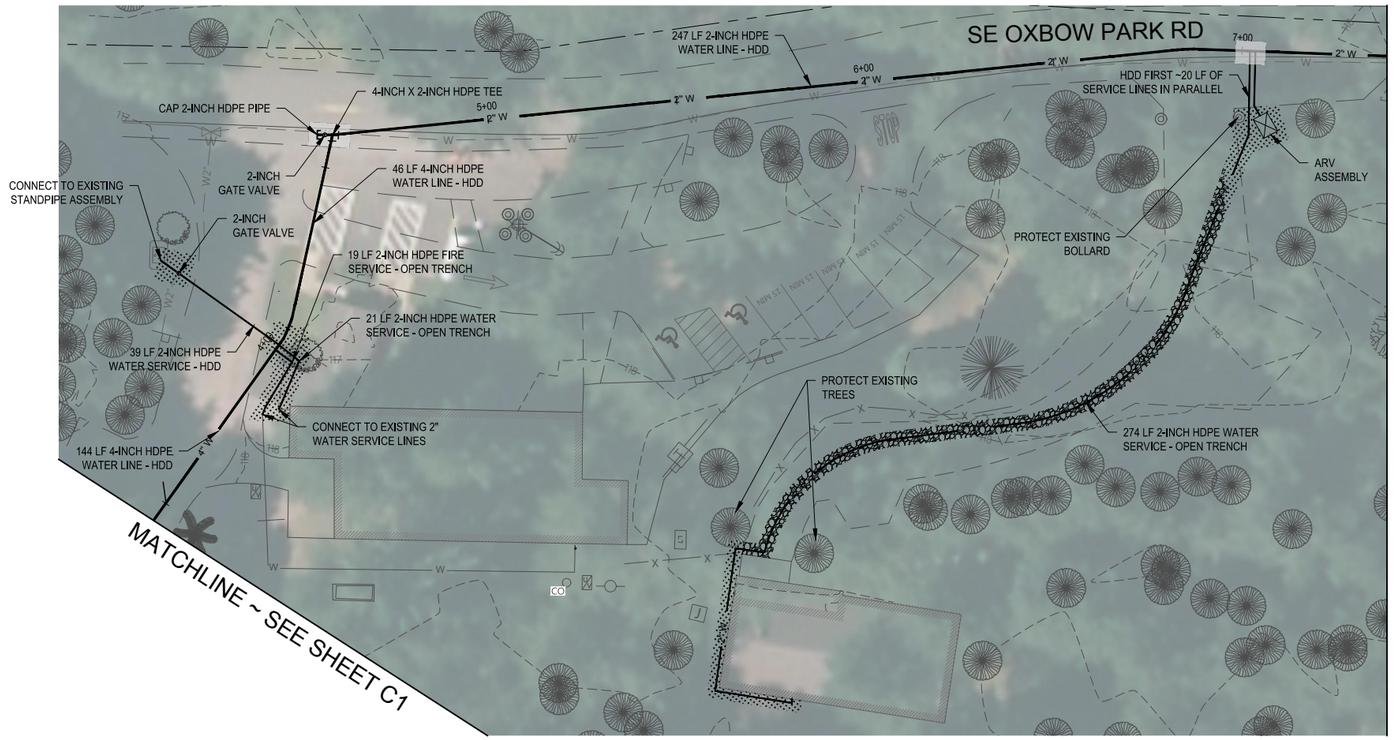
PROJECT NO: 1544C
DATE: 11/2023

OXBOW PARK
WELCOME CENTER
WATER SYSTEM

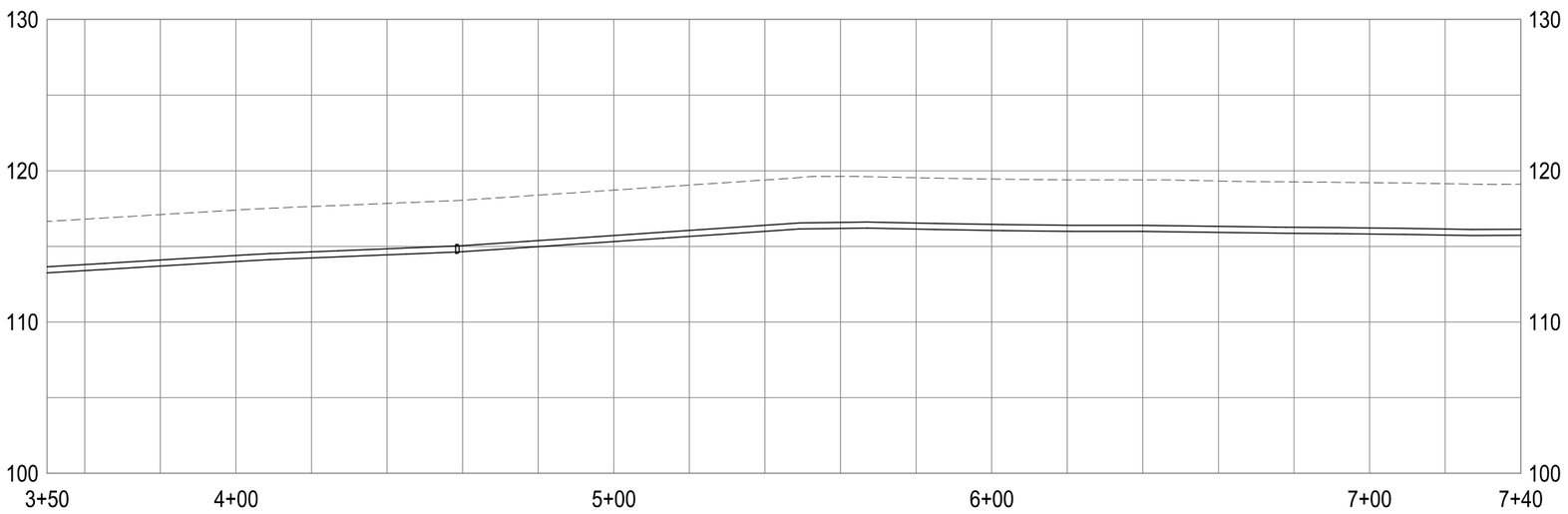
Metro

DRAWING NO:
C1
6 OF 12

P:\15\1544C Oxbow Welcome Center Water System\500 DWG\501 Plan Sheets\1544C-Plan & Profile Sheets.dwg, 3/4/2024 2:22:25 PM, Chad Kays



PLAN



PROFILE

SCALE: 1" = 20' HORIZ
1" = 5' VERT

0 20 40
SCALE IN FEET

PRELIMINARY

NO.	REVISION	BY	DATE

DESIGNED BY: AP
DRAWN BY: AP/TS
REV: XX

ONE INCH
0 1"
ONE INCH AT FULL SCALE.
IF NOT ONE INCH ADJUST
SCALE ACCORDINGLY

PLAN & PROFILE STA
3+50 TO 7+00

wallis engineering

PROJECT NO: 1544C
DATE: 11/2023

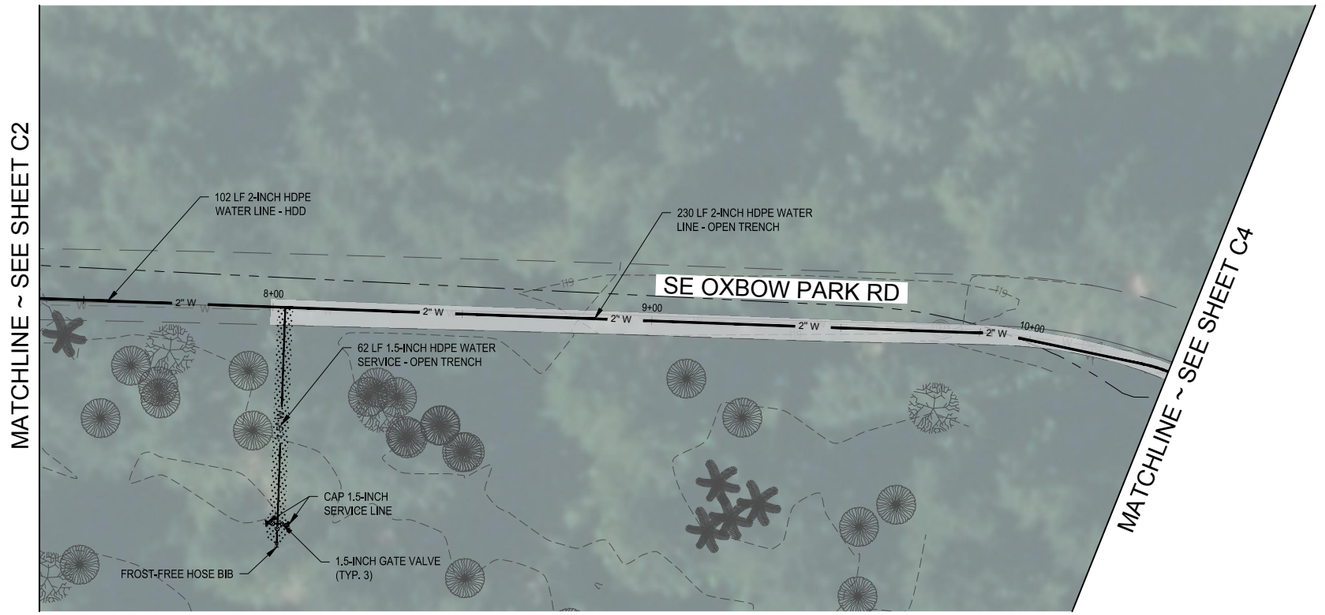
OXBOW PARK
WELCOME CENTER
WATER SYSTEM

Metro

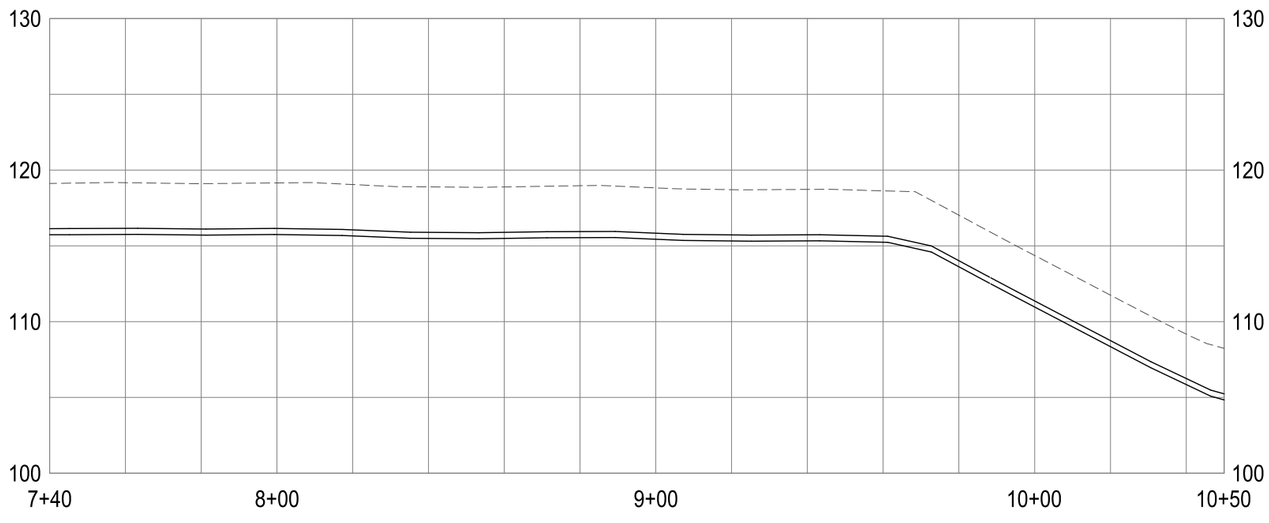
DRAWING NO:
C2

7 OF 12

P:\1544C Oxbow Welcome Center Water System\500 DWG\501 Plan Sheets\1544C-Plan & Profile Sheets.dwg, 3/4/2024 2:23:03 PM, Chad Kays



PLAN



PROFILE

SCALE: 1" = 20' HORIZ
1" = 5' VERT

0 20 40
SCALE IN FEET

PRELIMINARY

NO.	REVISION	BY	DATE

DESIGNED BY: AP
DRAWN BY: AP/TS
REV: XX

ONE INCH
0 1"
ONE INCH AT FULL SCALE.
IF NOT ONE INCH ADJUST
SCALE ACCORDINGLY

PLAN & PROFILE STA 7+00 TO 10+50

wallis engineering

PROJECT NO: 1544C
DATE: 11/2023

OXBOW PARK
WELCOME CENTER
WATER SYSTEM

Metro

DRAWING NO:
C3

8 OF 12

P:\15\1544C Oxbow Welcome Center Water System\500 DWG\501 Plan Sheets\1544C-Plan & Profile Sheets.dwg, 3/4/2024 2:23:42 PM, Chad Kays

PLAN

PROFILE
SCALE: 1" = 20' HORIZ
1" = 5' VERT

0 20 40
SCALE IN FEET

PRELIMINARY

NO.	REVISION	BY	DATE

DESIGNED BY: AP
DRAWN BY: AP/TS
REV: XX

ONE INCH
0 1"
ONE INCH AT FULL SCALE.
IF NOT ONE INCH ADJUST
SCALE ACCORDINGLY

PLAN & PROFILE STA
10+50 TO 14+00

wallis engineering

PROJECT NO: 1544C
DATE: 11/2023

OXBOW PARK
WELCOME CENTER
WATER SYSTEM

Metro

DRAWING NO:
C4

9 OF 12

P:\15\1544C Oxbow Welcome Center Water System\500 DWG\501 Plan Sheets\1544C-Plan & Profile Sheets.dwg, 3/4/2024 2:24:22 PM, Chad Kays

FOR CONTINUATION ~ SEE SHEET C4

PLAN

PROFILE
SCALE: 1" = 20' HORIZ
1" = 5' VERT

0 20 40
SCALE IN FEET

PRELIMINARY

NO.	REVISION	BY	DATE

DESIGNED BY: AP
DRAWN BY: AP/TS
REV: XX

ONE INCH
0 1"
ONE INCH AT FULL SCALE.
IF NOT ONE INCH ADJUST
SCALE ACCORDINGLY

PLAN & PROFILE STA
14+00 TO END

wallis engineering

PROJECT NO: 1544C
DATE: 11/2023

OXBOW PARK
WELCOME CENTER
WATER SYSTEM

Metro

DRAWING NO:
C5
10 OF 12

P:\15\1544C Oxbow Welcome Center Water System\500 DWG\501 Plan Sheets\1544C-Plan & Profile Sheets.dwg, 3/4/2024 2:25:01 PM, Chad Kays

PLAN

0 10 20
SCALE IN FEET

THE FLOODPLAIN IS A MINIMUM OF
2,849 FEET FROM THE PROJECT LIMITS

PRELIMINARY

NO.	REVISION	BY	DATE

DESIGNED BY: AP
DRAWN BY: AP/TS
REV: XX

ONE INCH
0 1"
ONE INCH AT FULL SCALE.
IF NOT ONE INCH ADJUST
SCALE ACCORDINGLY

SITE PLAN

wallis engineering

PROJECT NO: 1544C
DATE: 11/2023

OXBOW PARK
WELCOME CENTER
WATER SYSTEM

Metro

DRAWING NO:
C6

0 1 2
SCALE IN FEET

2" PIPING FROM WELL

14'

11'-6"

SAMPLE PORT

SODIUM HYPOCHLORITE TANK & METERING PUMP

SKID MOUNTED BOOSTER PUMP SYSTEM

IRON & MANGANESE FILTER (TYP 3)

BACKWASH DISCHARGE LOCATION TBD

HYDROPNEUMATIC TANK

4" WATER MAIN, SEE PLAN AND PROFILE SHEETS FOR CONTINUATION

PREFABRICATED BUILDING

4" OUTLET

4" OVERFLOW

2" INLET

10-FT DIA. 5,000 GALLON POTABLE WATER STORAGE TANK

REINFORCED CONCRETE FOUNDATION

PRELIMINARY

NO.	REVISION	BY	DATE

DESIGNED BY: AP
DRAWN BY: AP/TS
REV: XX

ONE INCH
0 1"
ONE INCH AT FULL SCALE.
IF NOT ONE INCH ADJUST
SCALE ACCORDINGLY

TREATMENT BUILDING FLOOR PLAN

wallis engineering

PROJECT NO: 1544C
DATE: 11/2023

OXBOW PARK
WELCOME CENTER
WATER SYSTEM

Metro

DRAWING NO:
M1

12 OF 12

P:\15\1544C Oxbow Welcome Center Water System\500 DWG\501 Plan Sheets\1544C-Floor Plan.dwg, 3/4/2024 2:36:15 PM, Chad Kays