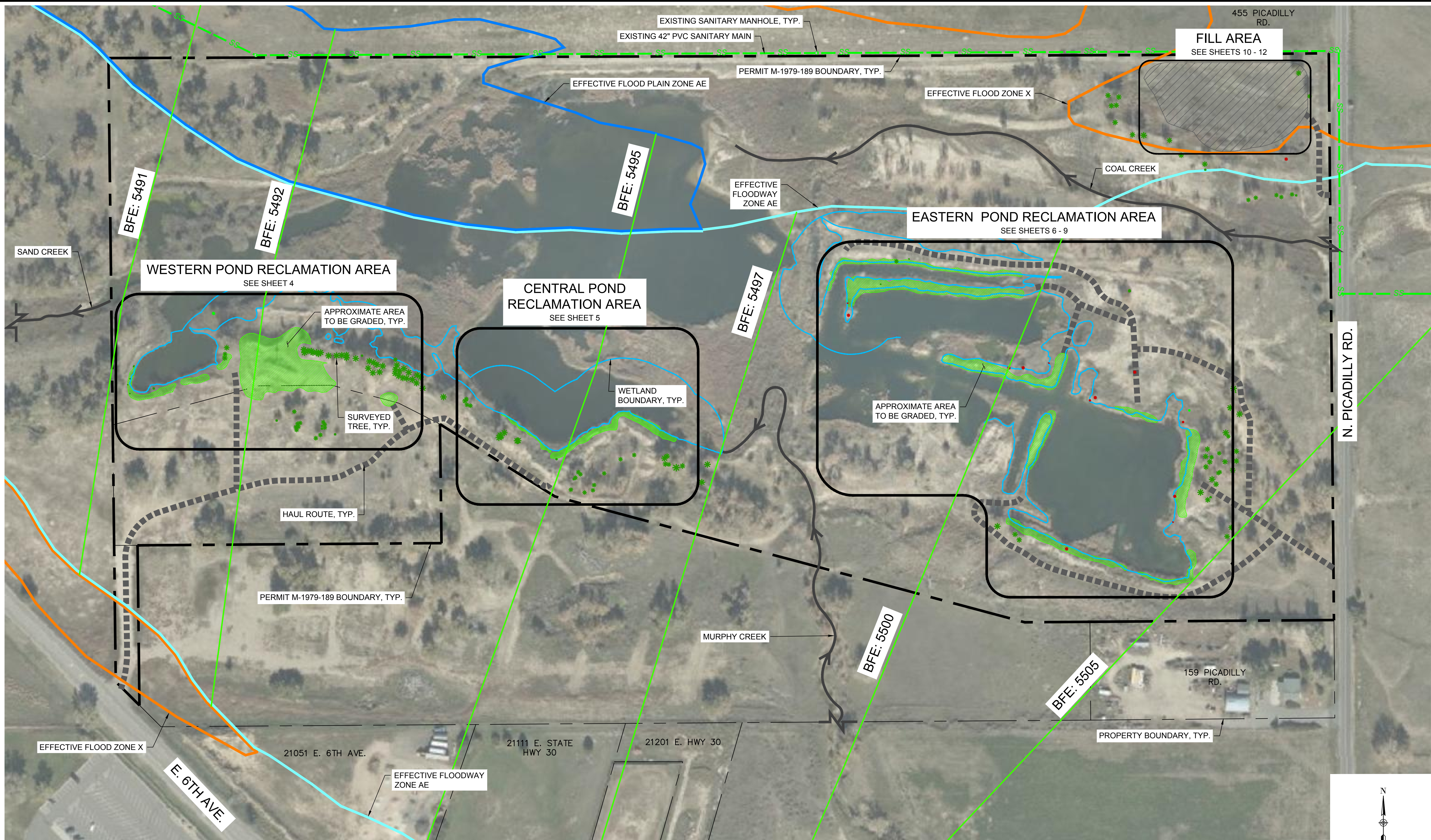


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No.	DATE	REVISIONS	APPR.

DRAWN BY:	JIM
DESIGNED BY:	JIM
APPROVED BY:	AB



PREPARED FOR:



Parks, Recreation & Open Space

PREPARED BY:

ICON
ENGINEERING

7000 S. Yosemite Street, Suite 120
Centennial, CO 80112
Phone (303) 221-0802



CONFLUENCE NATURAL AREA RESTORATION

CONSTRUCTION DRAWINGS

OVERALL SITE & ACCESS PLAN

DATE

NOV 2020

SHEET

3 OF 19

AURORA PARKS, RECREATION & OPEN SPACE

CONFLUENCE NATURAL AREA RESTORATION

CONSTRUCTION PLANS

ICON PROJECT NO.: 20-020

COA PROJECT NO.: _____

ANNEXATION DISCLAIMER

THE SUBJECT SITE IS CURRENTLY UNDERGOING AN ANNEXATION PROCESS FROM UNINCORPORATED ARAPAHOE COUNTY INTO THE CITY OF AURORA. IT IS ANTICIPATED THAT CONSTRUCTION WILL NOT COMMENCE UNTIL ANNEXATION IS COMPLETE AND THEREFORE NO REVIEW OF THESE PLANS AND ASSOCIATED REPORTS OR CONTRACT DOCUMENTS ARE SUBJECT TO REVIEW BY ARAPAHOE COUNTY. APPROVALS OF THESE PLANS AND ASSOCIATED DOCUMENTS ARE TO BE GOVERNED BY CITY OF AURORA

MINERALS PROGRAM INFORMATION:

COLORADO DIVISION OF RECLAMATION MINING AND SAFETY
RIO GRANDE SAND PIT - (S-4)
SUPERIOR S&G PIT
MINE ID No. M-1979-189

LOCATED IN THE NE 1/4 OF SECTION 11, T 4 S,
R66 W, 6TH PM COUNTY OF ARAPAHOE, STATE
OF COLORADO

CONSULTANTS

ICON ENGINEERING

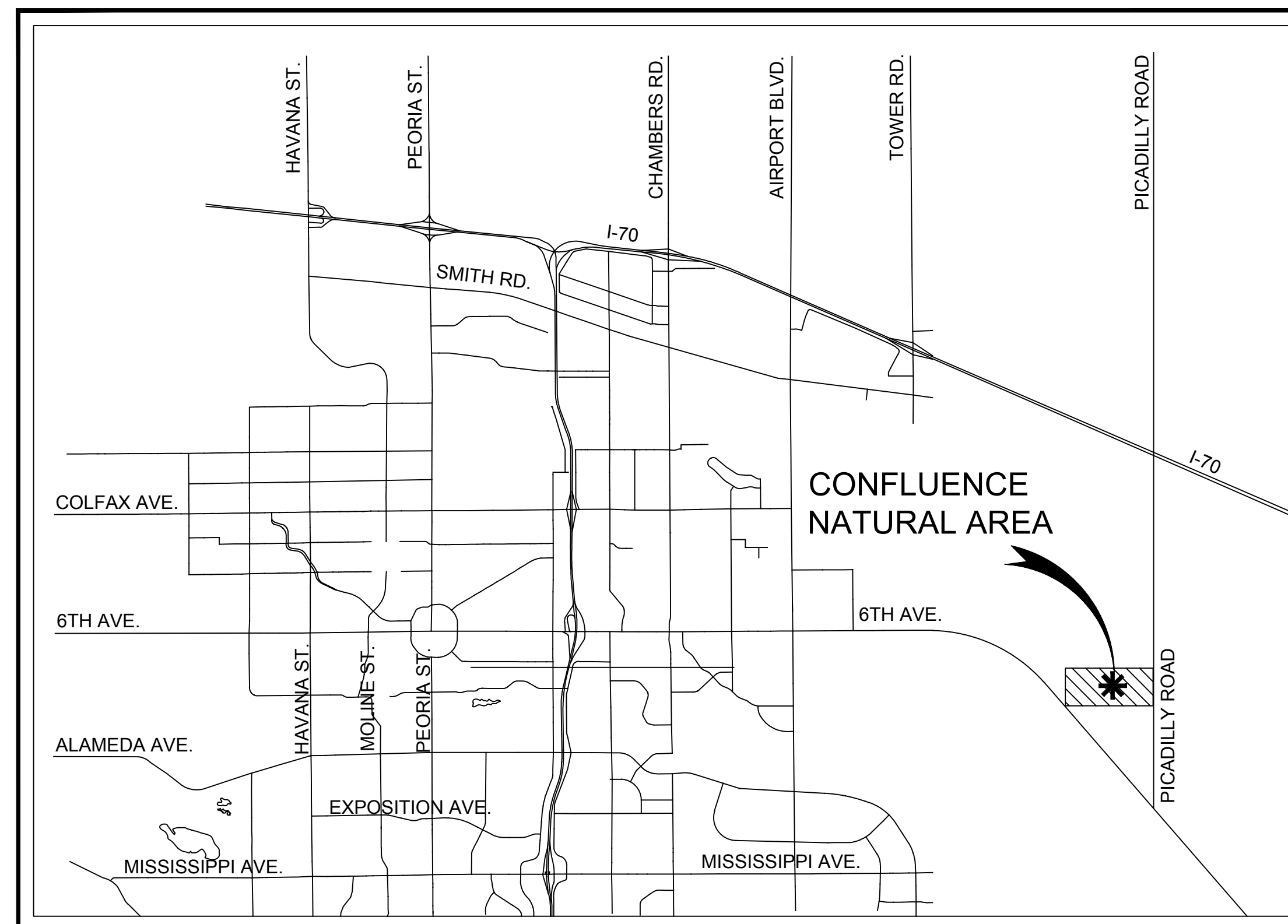
AARON BOUSSELOT
7000 S. YOSEMITE STREET, SUITE 120
CENTENNIAL, CO 80112
PHONE (303) 221-0802

GREAT ECOLOGY

JOSHUA ELDRIDGE
1435 LARIMER STREET, SUITE 200
DENVER, CO 80202
PHONE (303) 872-0927

APPLIED DESIGN SERVICES

MIKE HOLWEGER
9721 BAYOU RIDGE TRAIL
PARKER, CO 80134
PHONE (303) 841-7077



LOCATION MAP

NOT TO SCALE



PLOT DATE: Monday, February 1, 2021

STORMWATER MANAGEMENT PLAN APPROVAL BLOCK

PROJECT OWNER/DEVELOPER

I HAVE REVIEWED THE INFORMATION CONTAINED WITHIN THE STORMWATER MANAGEMENT PLAN AND ACCEPT RESPONSIBILITY FOR THE REQUIREMENTS SET FORTH.

BRIAN GREEN, OPEN SPACE AND NATURAL RESOURCES SUPERINTENDENT,
CITY OF AURORA

DATE

PLAN PREPARER

I ACKNOWLEDGE MY RESPONSIBILITY FOR THE PREPARATION OF THE STORMWATER MANAGEMENT PLAN.

JACOB MCMILLEN, PE / ICON ENGINEERING



02.21.2021

DATE



Parks, Recreation &
Open Space

ICON
ENGINEERING

7000 S. YOSEMITE STREET SUITE 120
CENTENNIAL, CO 80112
PHONE (303) 221-0802



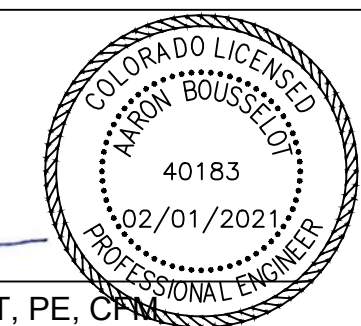
Know what's below.
Call before you dig.

INDEX OF SHEETS

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SHEET NUMBER	SHEET TITLE
1	COVER
2	NOTES
3	OVERALL SITE & ACCESS PLAN
4	WESTERN POND RECLAMATION AREAS
5	CENTRAL POND RECLAMATION AREAS
6	EASTERN POND RECLAMATION AREAS (1)
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9	EASTERN POND RECLAMATION AREAS (4)
10	FILL AREA
11	FILL AREA (2)
12	FILL AREA (3)
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FOR AND ON BEHALF OF
ICON ENGINEERING, INC.

Aaron Busselot
PROJECT MANAGER: AARON BOUSSELOT, PE, CPE



02.21.2021
DATE

Jacob McMillen
PROJECT ENGINEER: JACOB MCMILLEN, PE



02.01.2021
DATE

APPROVED FOR ONE YEAR FROM THIS DATE

CITY ENGINEER	DATE
PARKS, RECREATION, AND OPEN SPACE	DATE
WATER DEPARTMENT	DATE

NOTE:

FLOODPLAIN DEVELOPMENT
PERMIT IS REQUIRED PRIOR
TO START OF CONSTRUCTION.

P:\P20-020 Confluence Natural Area Restoration\06 DWG\04 CIVIL\04 PLAN SET\Grading Plans\COVER.dwg, J:\miller, Page Setup, 2/1/2021 11:58 AM

PROJECT SPECIFIC NOTES:

- HAUL TRUCKS LEAVING EITHER THE WESTERN OR CENTRAL RECLAMATION AREAS SHALL EXIT THE CONFLUENCE NATURAL AREA PROJECT ONTO E. 6TH AVE. VIA HAUL ROUTES SHOWN ON PLANS. ONCE ON E. 6TH AVE., HAUL TRUCKS SHALL TRAVEL SOUTHEAST TO N. PICADILLY RD. AND NORTH TO THE DESIGNATED FILL AREA AT THE NORTHEAST CORNER OF THE PROJECT SITE.
- HAUL TRUCKS AND OTHER CONSTRUCTION EQUIPMENT SHALL NOT CROSS MURPHY CREEK OR COAL CREEK. HAUL TRUCKS SHALL REMAIN ON HAUL ROUTES AS SHOWN ON THE OVERALL SITE AND ACCESS PLAN.
- HAUL ROUTES SHALL BE LIMITED TO 20' WIDTH. ALL CONSTRUCTION ACTIVITIES SHALL REMAIN WITHIN THE DESIGNATED WORK LIMITS. IF ANY OF THE DESIGNATED HAUL ROUTES ARE INACCESSIBLE DUE TO GRADES, EXISTING VEGETATION, OR OTHER OBSTRUCTION THE CITY ENGINEER SHALL BE NOTIFIED IN ORDER TO DETERMINE ALTERNATE ROUTE.
- CONTRACTOR SHALL REMAIN OUTSIDE OF THE DESIGNATED WETLAND AREAS AT ALL TIMES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND/OR RESTORING ALL DISTURBED SURFACES AND RELATED STRUCTURES, INCLUDING BUT NOT LIMITED TO: TRAILS, ROADS, CURB, GUTTERS, WALKS, FENCES, DITCHES, RECREATIONAL AREAS, LANDSCAPING, AND PAVEMENTS TO ORIGINAL CONDITIONS OR BETTER.
- THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AS REQUIRED. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN TO AURORA PARKS, RECREATION, & OPEN SPACE FOR REVIEW AND APPROVAL AT LEAST 5 BUSINESS DAYS PRIOR TO GRADING OPERATIONS.
- ALL GRADES SHOWN ARE FINISHED GRADES, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY FIELD CONDITION NOT CONSISTENT WITH THE DRAWINGS AND CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL SEED AND MULCH/BLANKET ALL DISTURBED AREAS IN ACCORDNACE WITH THE DRAWINGS AND ECOLOGICAL ASSESSMENT PROVIDED BY GREAT ECOLOGY FOR ALL WETLAND AND UPLAND RESTORATION AREAS. ADDITION OF SOIL AMENDMENTS SHALL BE INCIDENTAL TO SEEDING.
- CONSTRUCTION EROSION AND SEDIMENT CONTROL BMP'S SHALL BE INSTALLED IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL DRAWINGS, CITY PERMIT, AND STATE PERMIT REQUIREMENTS.
- ALL FILL AREA SUBGRADE SHALL BE PREPARED BY SCARIFYING TO A DEPTH OF 6 INCHES (MIN) AND REMOVING UNSUITABLE MATERIAL AND DEBRIS. ALL PROPOSED FILL SHALL BE PLACED IN 12 INCH LIFTS AND COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH THE CITY OF AURORA SPECIFICATIONS.
- ALL TREE TRUNKS, BRANCHES, AND BIOMASS SHALL REMAIN ON-SITE. LARGE LOGS SHALL BE PLACED FOR HABITAT ENHANCEMENT AS DIRECTED BY OWNER. SMALLER WOOD SHALL BE PROCESSED INTO WOOD CHIPS AND INCORPORATED INTO TOPSOIL OR BURIED IN DESIGNATED FILL AREA.
- PROPOSED CONTOURS AND SLOPES SHOWN ON THE PLAN HAVE BEEN SIMPLIFIED FOR CLARITY. CONTRACTOR SHALL PROVIDE A FINISHED SURFACE WITH NATURAL APPEARANCE THAT COMPLIMENTS EXISTING SITE VARIABILITY. GRADING OPERATIONS SHALL INCLUDE IRREGULAR AND UNDULATING SLOPES, CUSTOM "WAVY" GRADING WITH OCCASIONAL DEPRESSIONS AND MOUNDS, ROLLING HILLS, AND SMOOTH TRANSITIONS TO EXISTING GRADES.
- ALL SITE ACCESS AND GRADING OPERATIONS WILL REQUIRE EXTREME CARE BY THE CONTRACTOR TO MINIMIZE CONSTRUCTION FOOTPRINT AND SITE IMPACTS, AND TO PROTECT EXISTING WETLANDS AND ESTABLISHED HABITAT TO THE GREATEST EXTENT PRACTICABLE.
- SOIL REMOVAL, LOADING AND TRANSPORT WILL BE CHALLENGING AT THIS SITE. SEVERAL LOCATIONS WILL REQUIRE EXCAVATION AND GRADING ON LONG AND NARROW SAND FEATURES THAT WILL BE INACCESSIBLE BY LARGE CONSTRUCTION EQUIPMENT. IT IS ANTICIPATED THAT SMALL PRECISION EARTHWORK EQUIPMENT WILL BE REQUIRED. THIS COULD INCLUDE: SHOVELS, MINI LOADERS, MINI SKID STEERS, MINI EXCAVATORS, LONG REACH GRADALL EXCAVATORS, DUMP CARTS, CONVEYOR BELTS, AND OTHER SPECIAL EQUIPMENT. CONTRACTOR SHALL PREPARE AN EARTHWORK EQUIPMENT AND PROCEDURE PLAN FOR CITY REVIEW PRIOR TO STARTING WORK.

CITY OF AURORA GENERAL NOTES:

2.03.6.01 CITY OF AURORA PLAN REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH CITY OF AURORA DESIGN CRITERIA AND THE CITY CODE. THE CITY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND ELEVATIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE. THE CITY OF AURORA, THROUGH THE APPROVAL OF THIS DOCUMENT, ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

2.03.6.02 ALL ROADWAY CONSTRUCTION SHALL CONFORM TO CITY OF AURORA "ROADWAY DESIGN & CONSTRUCTION SPECIFICATIONS," LATEST EDITION.

2.03.6.03 ALL WATER DISTRIBUTION, SANITARY SEWER, AND STORM DRAINAGE CONSTRUCTION SHALL CONFORM TO CITY OF AURORA "STANDARDS AND SPECIFICATIONS REGARDING WATER, SANITARY SEWER AND STORM DRAINAGE INFRASTRUCTURE," LATEST REVISION.

2.03.6.04 ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE CITY. THE CITY RESERVES THE RIGHT TO ACCEPT OR REJECT ANY MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO THE CITY STANDARDS AND SPECIFICATIONS.

2.03.6.05 THE CONTRACTOR SHALL NOTIFY THE CITY PUBLIC IMPROVEMENT INSPECTIONS DIVISION, 303-739-7420, 24 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.

2.03.6.06 LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ACTUAL CONSTRUCTION. FOR INFORMATION, CONTACT UTILITY NOTIFICATION CENTER OF COLORADO, 1-800-922-1987 OR 811.

2.03.6.07 THE CONTRACTOR SHALL HAVE ONE SIGNED COPY OF THE PLANS (APPROVED BY THE CITY OF AURORA), ONE COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED AT THE JOB SITE AT ALL TIMES.

2.03.6.08 IT IS THE CONSULTANT'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ON-SITE, AND OFF-SITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NEEDED DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS EITHER ON-SITE OR OFF-SITE, WHICH ARISE IN THE FIELD, WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY. THE COST TO RECTIFY ANY ADVERSE SITUATION TO MEET THE CITY STANDARDS AND SPECIFICATIONS AND THE CITY CODE SHALL BE BORNE SOLELY BY THE DEVELOPER.

2.03.6.09 THE OWNER/DEVELOPER MUST OBTAIN THE WRITTEN PERMISSION OF THE ADJACENT PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE GRADING OR CONSTRUCTION.

2.03.6.10 CONCRETE SHALL NOT BE PLACED UNTIL THE FORMS HAVE BEEN INSPECTED BY PUBLIC IMPROVEMENTS INSPECTIONS.

2.03.6.11 PAVING OF PUBLIC STREETS SHALL NOT START UNTIL A SOIL REPORT AND PAVEMENT DESIGN IS APPROVED BY THE CITY ENGINEER, PROOF ROLLING, AND SUBGRADE AND TRENCH COMPACTION TESTS TAKEN BY THE DEVELOPER'S GEOTECH ARE APPROVED BY PUBLIC IMPROVEMENTS INSPECTIONS/MATERIALS LAB.

2.03.6.12 STANDARD CITY OF AURORA CURB RAMPS SHALL BE CONSTRUCTED AT ALL CURB RETURNS, AT ALL "T" INTERSECTIONS AND AT ALL CURBSIDE KIOSKS OR CLUSTERS, UNLESS OTHERWISE MODIFIED BY THESE PLANS.

2.03.6.13 ALL STATIONING IS BASED ON CENTERLINE OF ROADWAYS UNLESS OTHERWISE NOTED.

2.03.6.14 ALL ELEVATIONS ARE (INDICATE TOP OF CURB OR FLOW LINE) UNLESS OTHERWISE NOTED.

2.03.6.15 THE CITY OF AURORA SHALL NOT BE LIABLE FOR THE MAINTENANCE OF _____(INSERT NAME OF SPECIFIC PRIVATE IMPROVEMENT(S).) THESE FACILITIES MAY NOT MEET CITY STANDARDS AND SHALL REMAIN IN PRIVATE MAINTENANCE BY _____(INSERT NAME OF ENTITY TO BE RESPONSIBLE FOR THE MAINTENANCE) IN PERPETUITY. THESE PRIVATE FACILITIES INCLUDE, IF PROVIDED, THE PRIVATE UNDERDRAIN SYSTEM PLACED WITHIN THE PUBLIC RIGHT-OF-WAY.

2.03.6.16 THE CONTRACTOR/DEVELOPER IS RESPONSIBLE FOR CONTACTING CDOT TO ENSURE ALL WORK ON OR ADJACENT TO STATE HIGHWAYS OR CDOT R.O.W. MEETS CDOT REQUIREMENTS.

2.03.6.17 THE STREETLIGHT OR PEDESTRIAN LIGHT INSTALLATION WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE DESIGNED, FUNDED, AND CONSTRUCTED BY THE DEVELOPER/OWNER. OWNERSHIP AND MAINTENANCE OF THE STREET/PEDESTRIAN LIGHTS SHALL BE THE RESPONSIBILITY OF THE CITY OF AURORA ONCE THEY HAVE BEEN ACCEPTED. STREET LIGHT AND/OR PEDESTRIAN LIGHTING PLANS SHALL BE PREPARED AND SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL AND SHALL BECOME A PART OF THE APPROVED CIVIL CONSTRUCTION PLANS FOR THE PROJECT. CERTIFICATE OF OCCUPANCIES WILL NOT BE ISSUED UNTIL THE STREET AND/OR PEDESTRIAN LIGHTING PLANS ARE APPROVED, CONSTRUCTED, AND INITIALLY ACCEPTED.

2.03.6.18 THE OWNER/CONTRACTOR MUST OBTAIN A C.D.P.S. STORM WATER DISCHARGE PERMIT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, IF REQUIRED.

2.03.6.19 THE OWNER/CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE ARMY CORP OF ENGINEERS FOR WETLAND MITIGATION OR WORK WITHIN THE WATERS OF THE U.S., IF REQUIRED. IT IS THE RESPONSIBILITY OF THE OWNER/CONTRACTOR TO PROVIDE A COPY OF THE ARMY CORP OF ENGINEER'S REQUIREMENTS TO THE CITY OF AURORA. IF THERE ARE NO REQUIREMENTS BY THE ARMY CORP OF ENGINEERS, THEN A WRITTEN NOTIFICATION FROM THE ARMY CORP OF ENGINEERS SHALL BE SUBMITTED TO THE CITY OF AURORA STATING SUCH. CITY APPROVAL OF THE CONSTRUCTION PLANS IS SUBJECT TO THE OWNER/CONTRACTOR OBTAINING A 404 PERMIT, IF APPLICABLE. A COPY OF THIS PERMIT SHALL BE SUBMITTED TO THE CITY OF AURORA PRIOR TO ANY PERMITS BEING ISSUED.

2.03.6.20 ALL SIGNAGE AND STRIPING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, UNLESS OTHERWISE NOTED BY THE CITY OF AURORA.

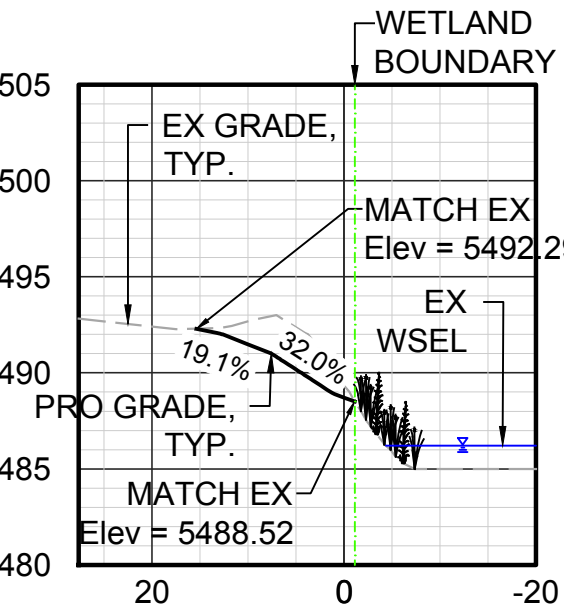
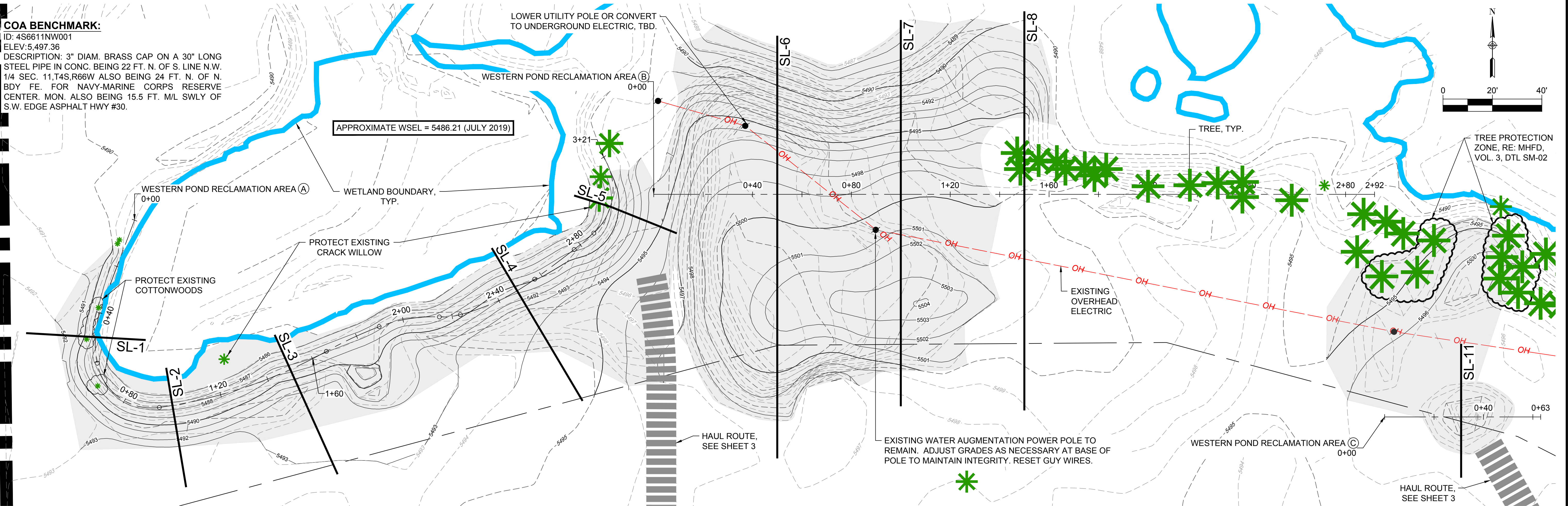
2.03.6.21 PRIVATE UNDERDRAIN SYSTEMS FOR GROUNDWATER DISCHARGES FROM FOUNDATION DRAINS SHALL BE OWNED AND MAINTAINED BY THE HOA/METRO DISTRICT (SELECT ONE).

2.03.6.22 PROJECT SHALL COMPLY WITH SUBSURFACE UTILITY ENGINEERING REQUIREMENTS PER CRS 9-1.5 WHEN PROJECT INCLUDES EXCAVATION, INCLUDING BUT NOT LIMITED TO ELECTRONICALLY TRACEABLE MARKERS OR TRACING WIRE PER AURORA WATER STANDARDS AND SPECIFICATIONS FOR ALL SUBSURFACE UTILITIES. BY STAMPING THE PLAN THE ENGINEER OF RECORD IS CERTIFYING THE PLAN MEETS THE STANDARDS ESTABLISHED BY THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE 38-02) FOR DEFINING THE ACCURACY OF AN UNDERGROUND FACILITY).

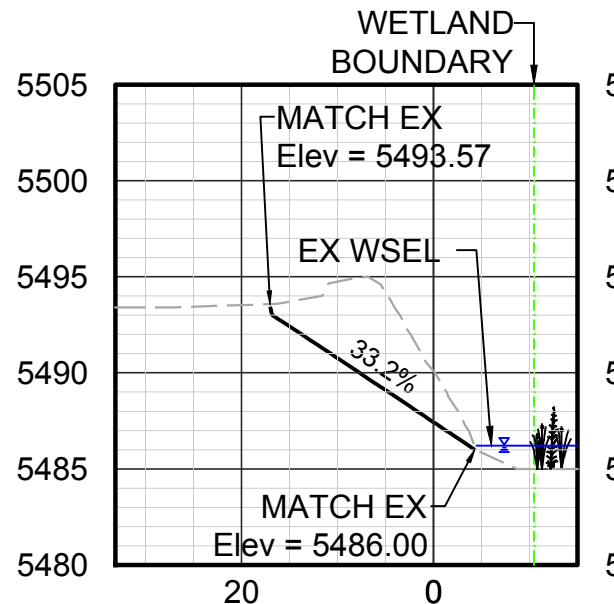
				DRAWN BY: JIM		PREPARED FOR: 	PREPARED BY:  7000 S. Yosemite Street, Suite 120 Centennial, CO 80112 Phone (303) 221-0802		CONFLUENCE NATURAL AREA RESTORATION	DATE
				DESIGNED BY: JIM					CONSTRUCTION DRAWINGS	NOV 2020
				APPROVED BY: AB						SHEET
No.	DATE	REVISIONS	APPR.						NOTES	2 OF 19

COA BENCHMARK:

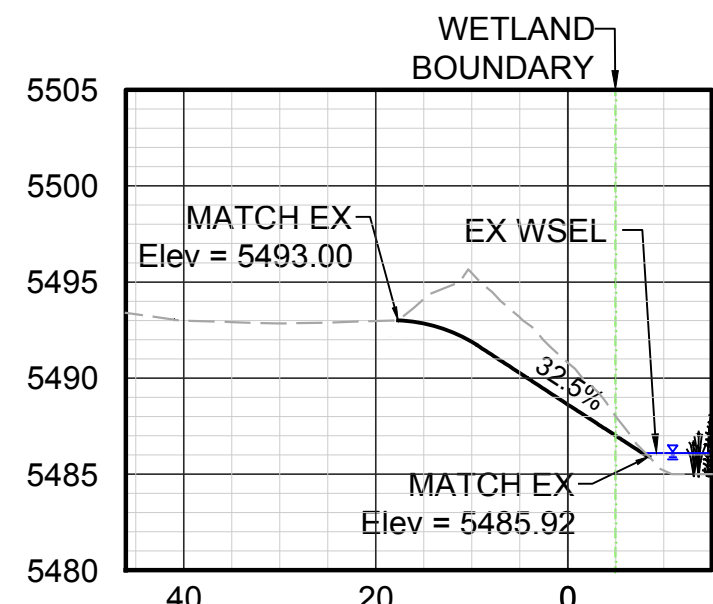
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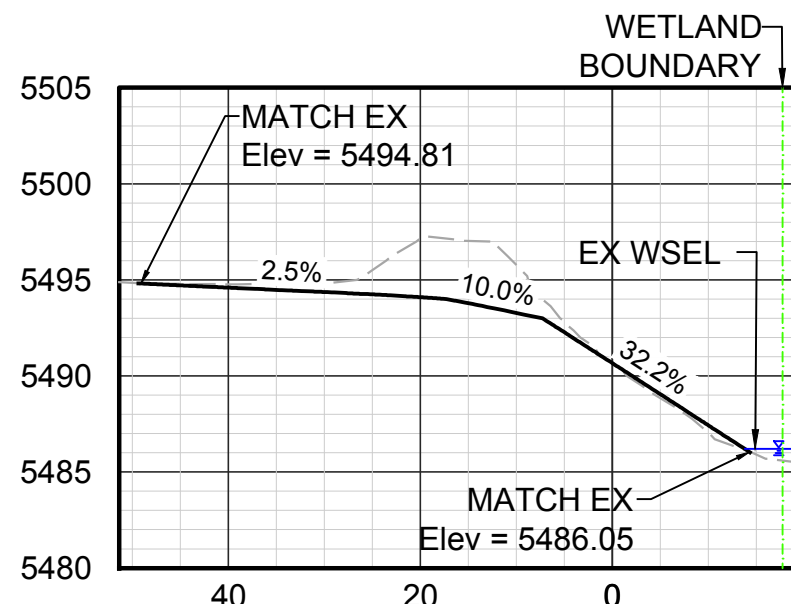
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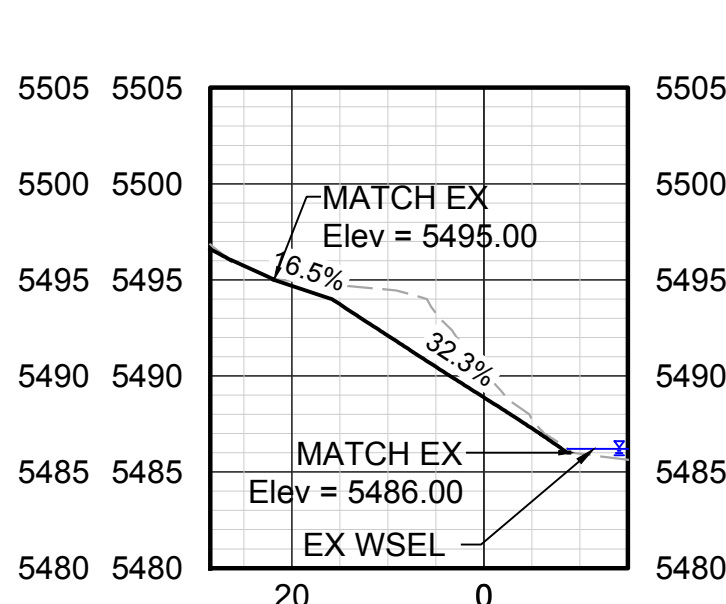
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SL-3 @ STA 1+50.00

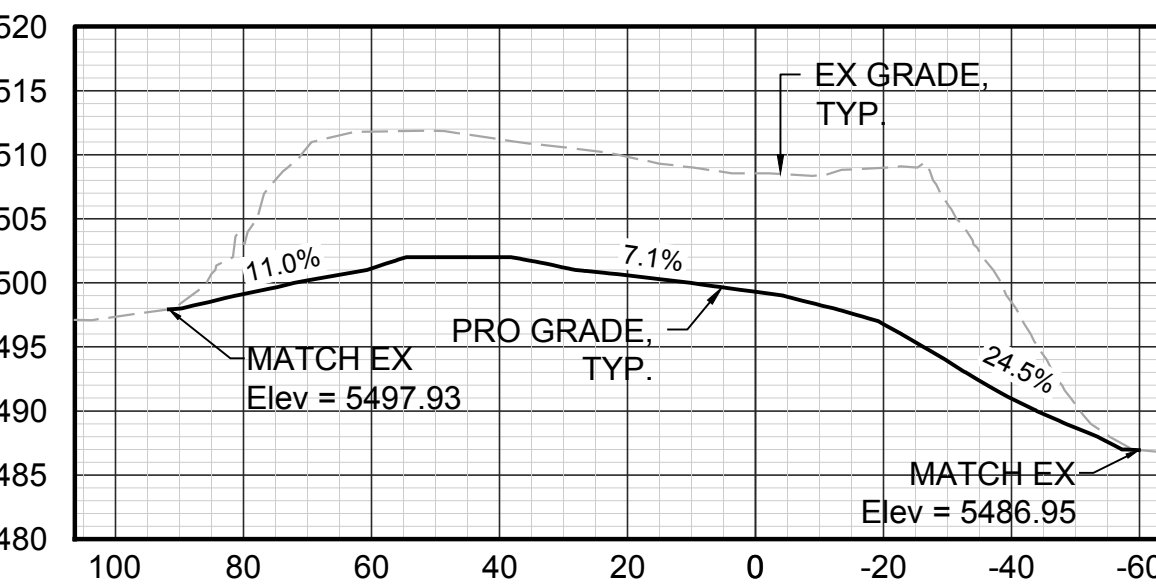


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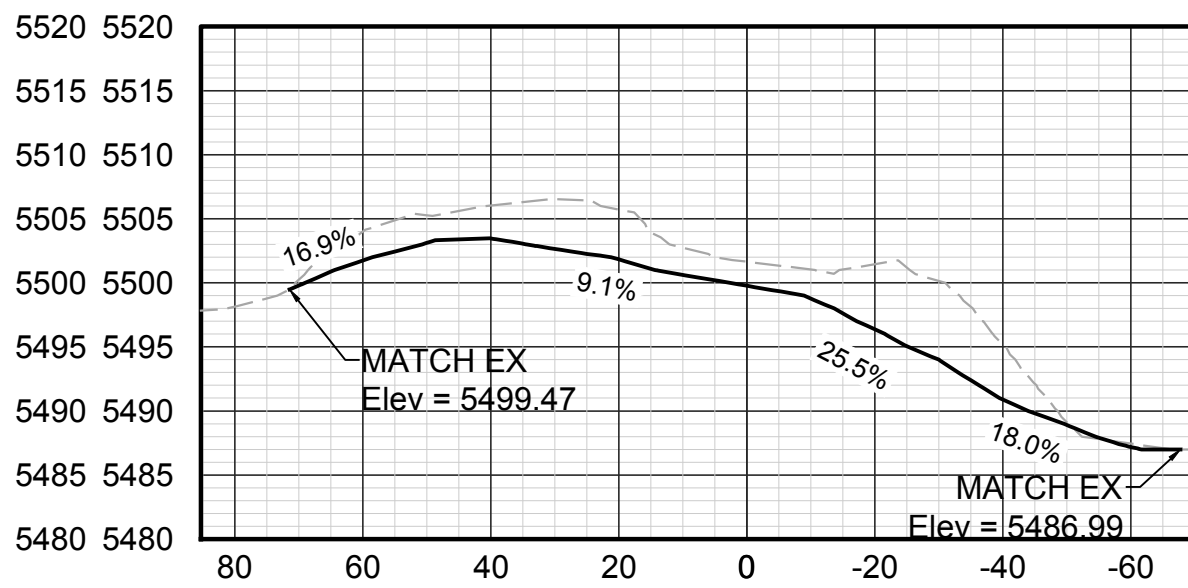


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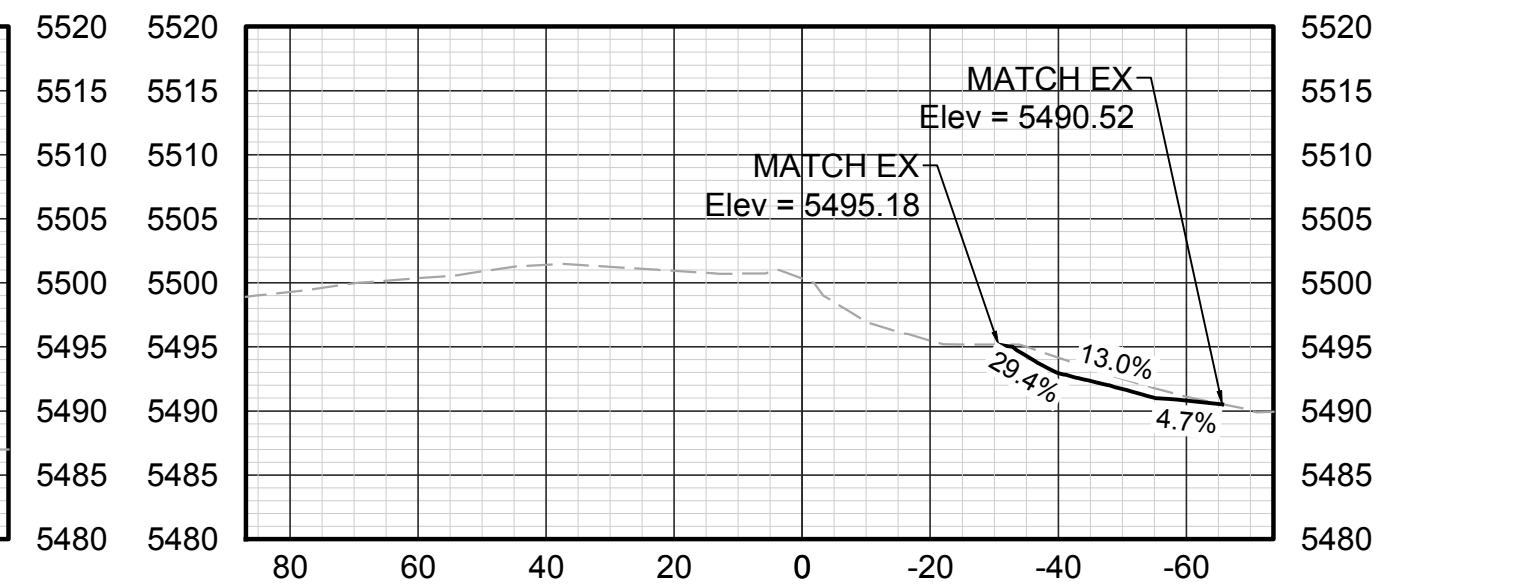
A WESTERN POND RECLAMATION AREA



SL-6 @ STA 0+50.00



SL-7 @ STA 1+00.00



SL-8 @ STA 1+50.00

B WESTERN POND RECLAMATION AREA

No.	DATE	REVISIONS	APPR.

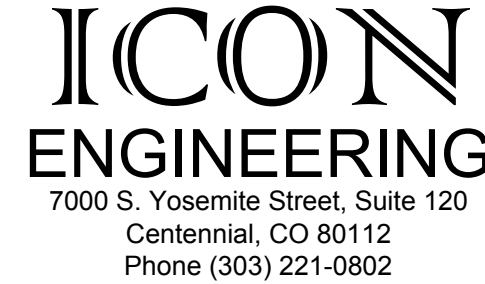
DRAWN BY:	JIM
DESIGNED BY:	JIM
APPROVED BY:	AB



PREPARED FOR:



PREPARED BY:



C WESTERN POND RECLAMATION AREA

Horizontal Scale: 1" = 20' / Vertical Scale: 1" = 10'

CONFLUENCE NATURAL AREA RESTORATION

CONSTRUCTION DRAWINGS

WESTERN POND RECLAMATION AREAS

DATE

NOV 2020

SHEET

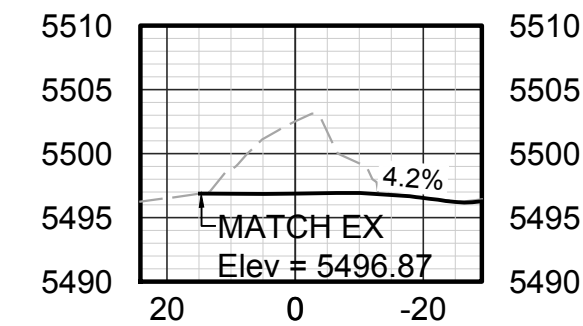
4 OF 19

LEGEND

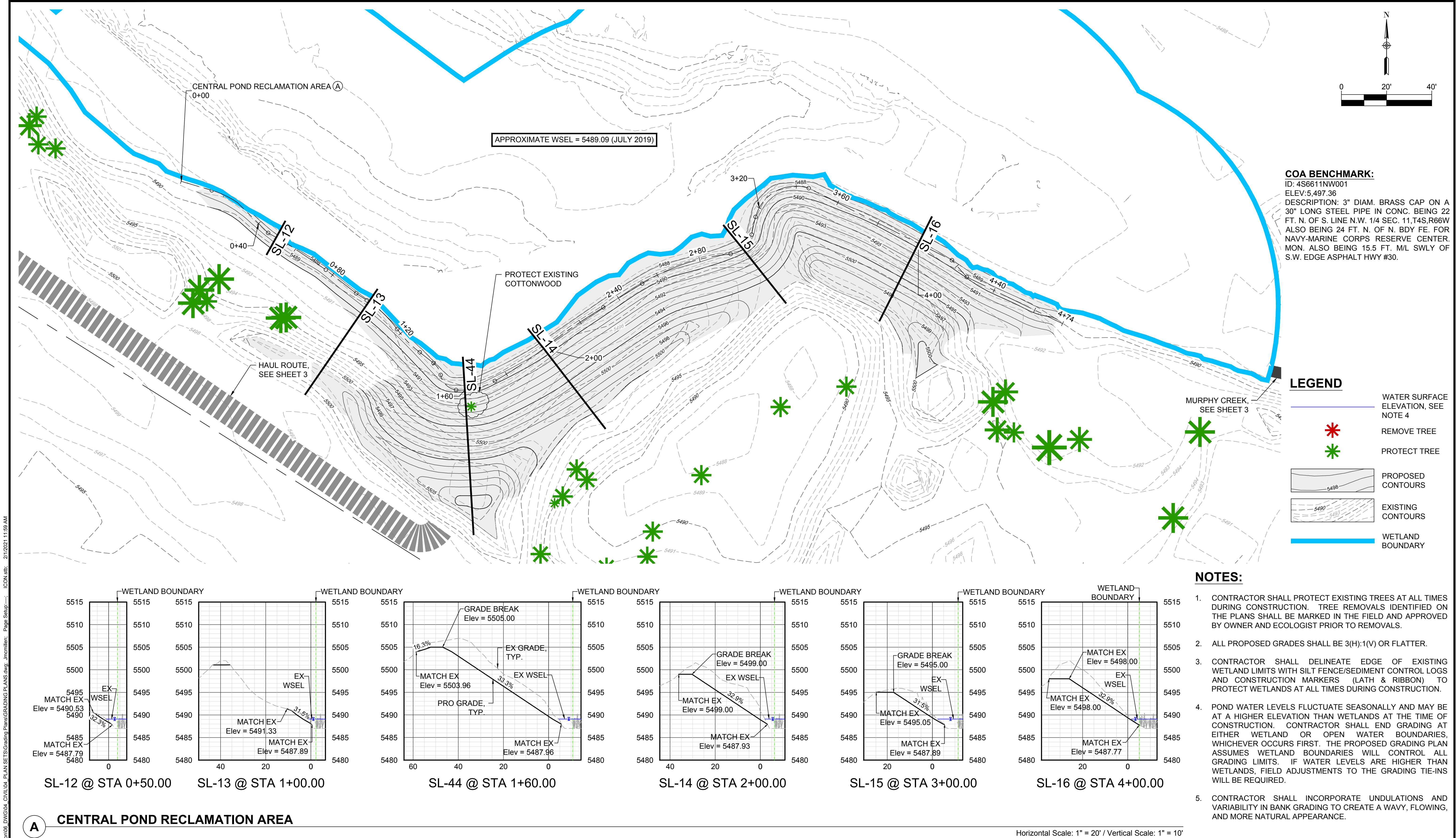
- WATER SURFACE ELEVATION, SEE NOTE 4
- REMOVE TREE
- PROTECT TREE
- PROPOSED CONTOURS
- EXISTING CONTOURS
- WETLAND BOUNDARY

NOTES:

- CONTRACTOR SHALL PROTECT EXISTING TREES AT ALL TIMES DURING CONSTRUCTION. TREE REMOVALS IDENTIFIED ON THE PLANS SHALL BE MARKED IN THE FIELD AND APPROVED BY OWNER AND ECOLOGIST PRIOR TO REMOVALS.
- ALL PROPOSED GRADES SHALL BE 3(H):1(V) OR FLATTER.
- CONTRACTOR SHALL DELINEATE EDGE OF EXISTING WETLAND LIMITS WITH SILT FENCE/ SEDIMENT CONTROL LOGS AND CONSTRUCTION MARKERS (LATH & RIBBON) TO PROTECT WETLANDS AT ALL TIMES DURING CONSTRUCTION
- POND WATER LEVELS FLUCTUATE SEASONALLY AND MAY BE AT A HIGHER ELEVATION THAN WETLANDS AT THE TIME OF CONSTRUCTION. CONTRACTOR SHALL END GRADING AT EITHER WETLAND OR OPEN WATER BOUNDARIES, WHICHEVER OCCURS FIRST. THE PROPOSED GRADING PLAN ASSUMES WETLAND BOUNDARIES WILL CONTROL ALL GRADING LIMITS. IF WATER LEVELS ARE HIGHER THAN WETLANDS, FIELD ADJUSTMENTS TO THE GRADING TIE-INS WILL BE REQUIRED.
- CONTRACTOR SHALL INCORPORATE UNDULATIONS AND VARIABILITY IN BANK GRADING TO CREATE A WAVY, FLOWING AND MORE NATURAL APPEARANCE.

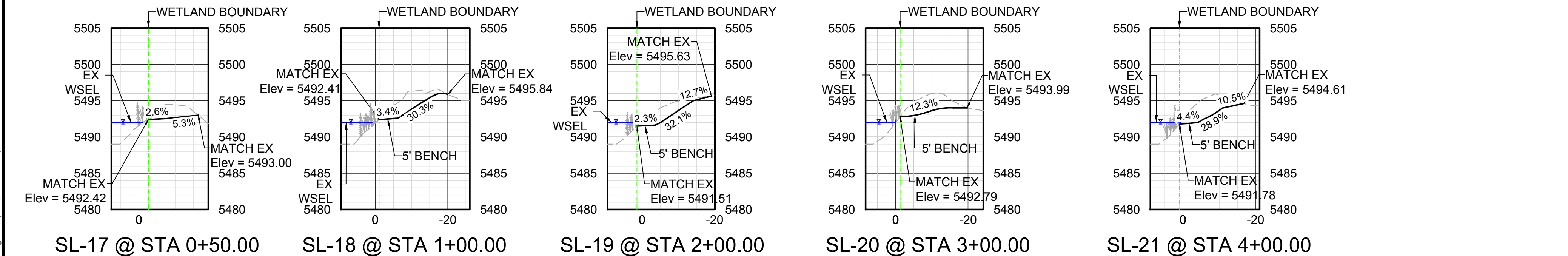
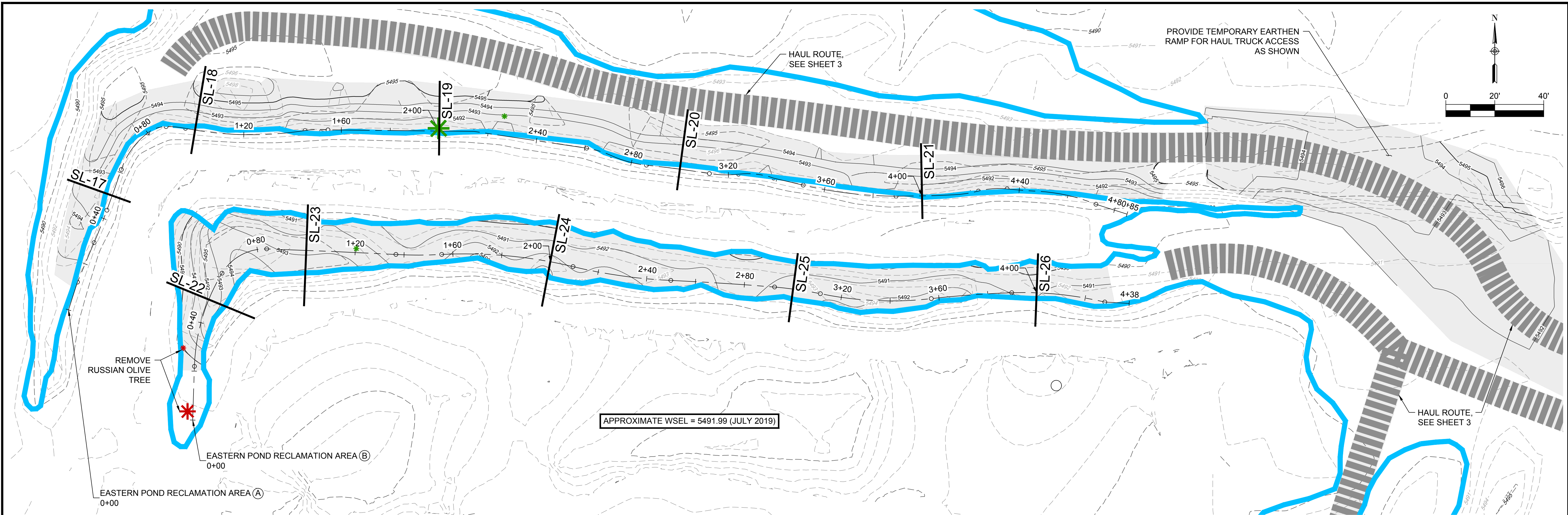


SL-11 @ STA 00+30.00

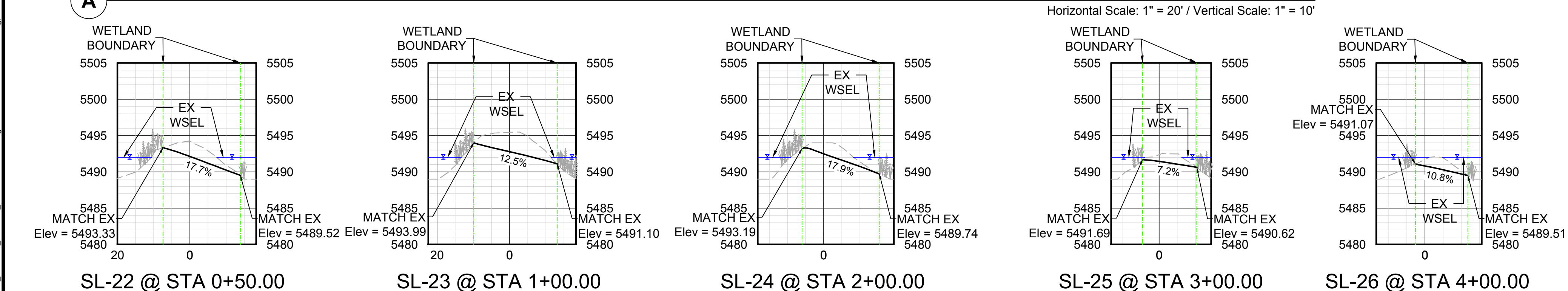


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A EASTERN POND RECLAMATION AREA



B EASTERN POND RECLAMATION AREA

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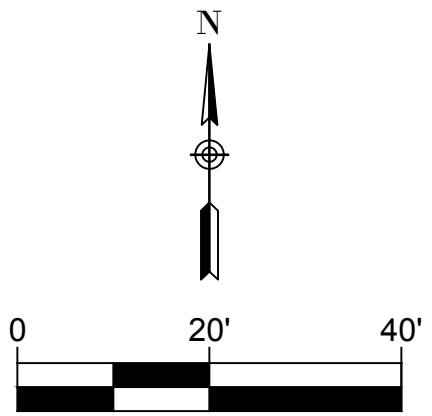
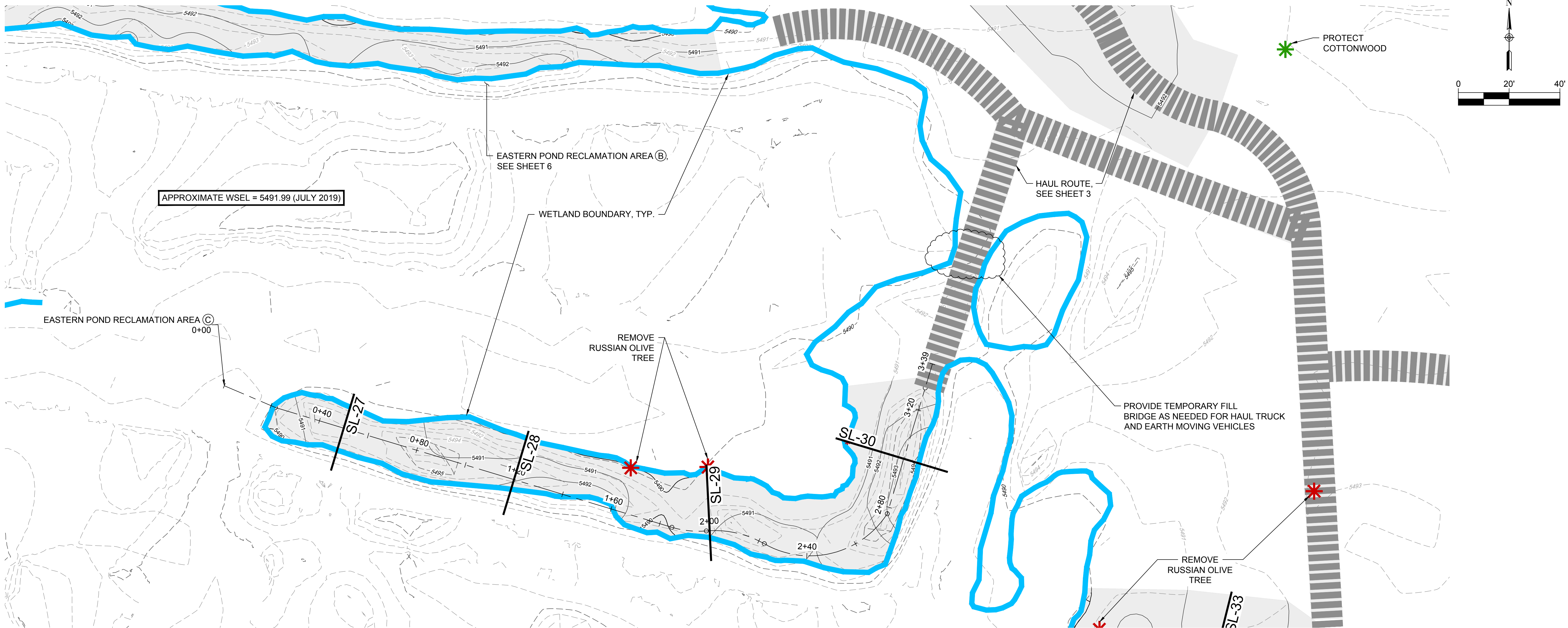
LEGEND

- WATER SURFACE ELEVATION, SEE NOTE 4
- REMOVE TREE
- PROTECT TREE
- PROPOSED CONTOURS
- EXISTING CONTOURS
- WETLAND BOUNDARY

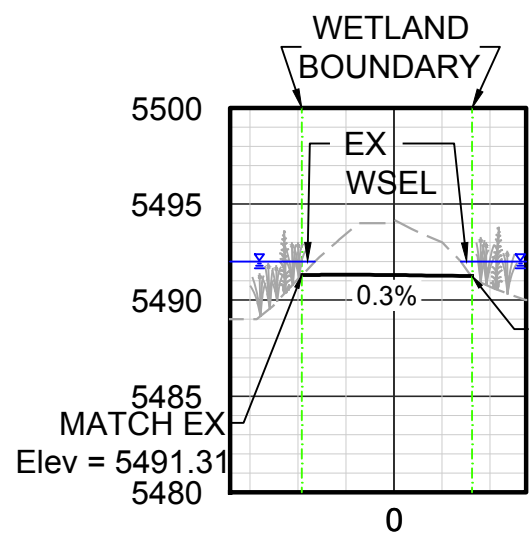
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ELEV: 5,497.36
DESCRIPTION: 3" DIAM. BRASS CAP ON A 30" LONG STEEL PIPE IN CONC. BEING 22 FT. N. OF S. LINE N.W. 1/4 SEC. 11, T4S, R66W ALSO BEING 24 FT. N. OF N. BDY. FE. FOR NAVY-MARINE CORPS RESERVE CENTER. MON. ALSO BEING 15.5 FT. M/L SWLY OF S.W. EDGE ASPHALT HWY #30.

				DRAWN BY: JIM	 Know what's below. Call before you dig.	 Parks, Recreation & Open Space	PREPARED BY:  7000 S. Yosemite Street, Suite 120 Centennial, CO 80112 Phone (303) 221-0802		CONFLUENCE NATURAL AREA RESTORATION CONSTRUCTION DRAWINGS	20-020	EASTERN POND RECLAMATION AREAS (1)	DATE NOV 2020
				DESIGNED BY: JIM								SHEET
				APPROVED BY: AB								6 OF 19
No.	DATE	REVISIONS			APPR.							

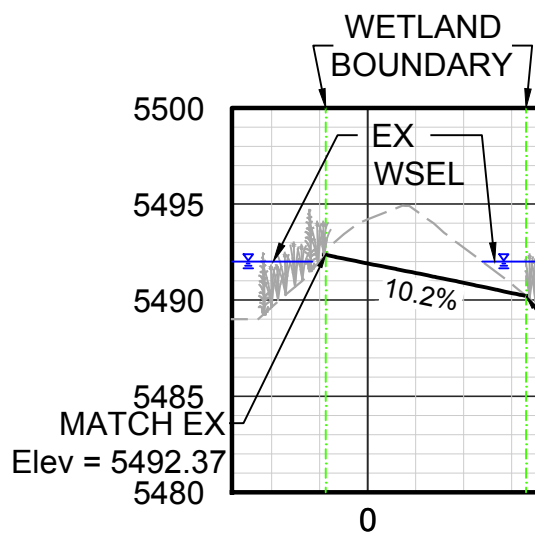
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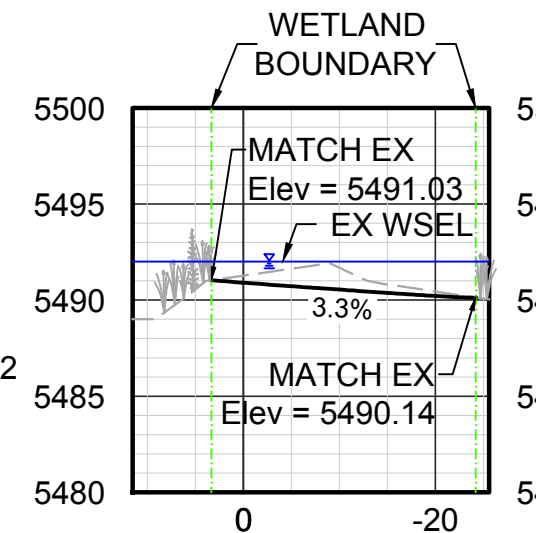
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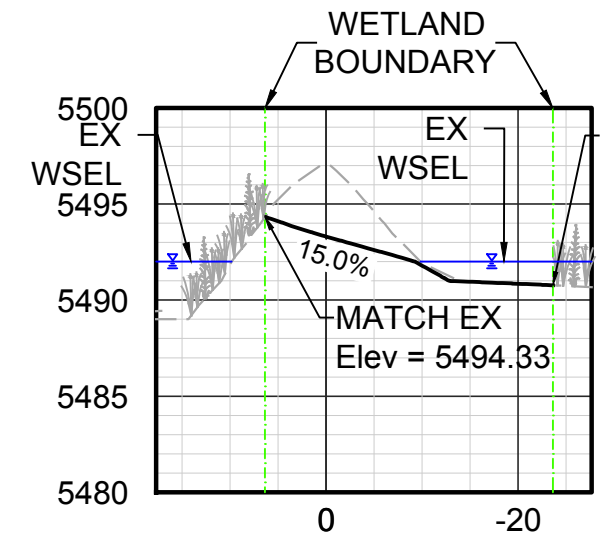
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SL-28 @ STA 1+20.00



SL-29 @ STA 2+00.00



SL-30 @ STA 3+00.00

Horizontal Scale: 1" = 20' / Vertical Scale: 1" = 10'

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LEGEND

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- REMOVE TREE
- PROTECT TREE
- PROPOSED CONTOURS
- EXISTING CONTOURS
- WETLAND BOUNDARY

C EASTERN POND RECLAMATION AREA

No.	DATE	REVISIONS	APPR.

DRAWN BY:	JIM
DESIGNED BY:	JIM
APPROVED BY:	AB



PREPARED FOR:



Parks, Recreation & Open Space

PREPARED BY:

ICON ENGINEERING
7000 S. Yosemite Street, Suite 120
Centennial, CO 80112
Phone (303) 221-0802



CONFLUENCE NATURAL AREA RESTORATION

CONSTRUCTION DRAWINGS

EASTERN POND RECLAMATION AREAS (2)

DATE

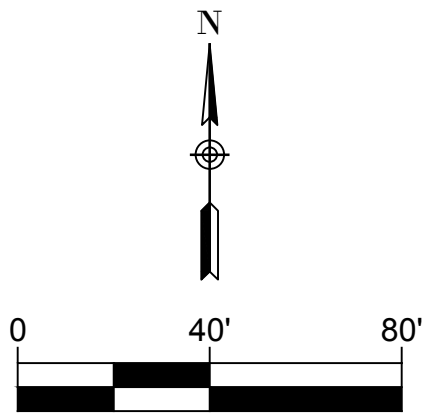
NOV 2020

SHEET

7 OF 19

COA BENCHMARK:

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ELEV: 5,497.36
DESCRIPTION: 3" DIAM. BRASS CAP ON A 30" LONG STEEL PIPE IN CONC. BEING 22 FT. N. OF S. LINE N.W. 1/4 SEC. 11,T4S,R66W ALSO BEING 24 FT. N. OF N. BDY FE. FOR NAVY-MARINE CORPS RESERVE CENTER. MON. ALSO BEING 15.5 FT. M/L SWLY OF S.W. EDGE ASPHALT HWY #30.



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LEGEND

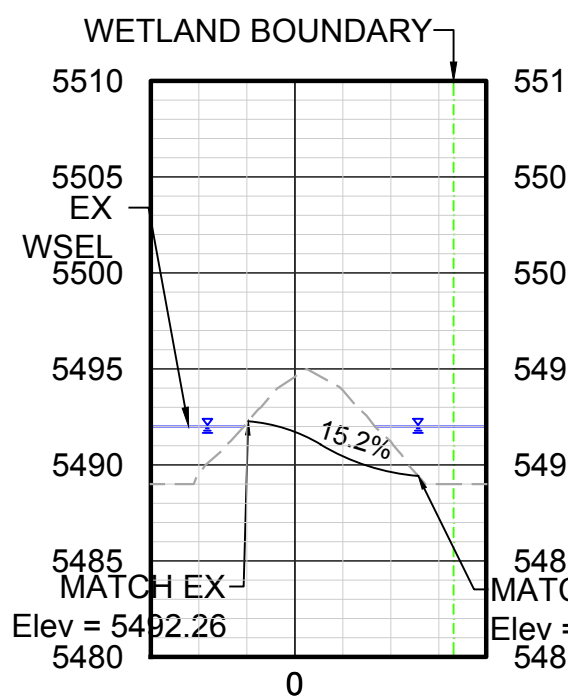
- WATER SURFACE ELEVATION, SEE NOTE 4
- REMOVE TREE
- PROTECT TREE
- PROPOSED CONTOURS
- EXISTING CONTOURS
- WETLAND BOUNDARY

PROVIDE TEMPORARY FILL AS NEEDED FOR ACCESS, GRADING, AND SOIL TRANSPORT. ALL TEMPORARY FILL MATERIAL SHALL BE REMOVED UPON COMPLETION OF WORK IN THIS AREA.

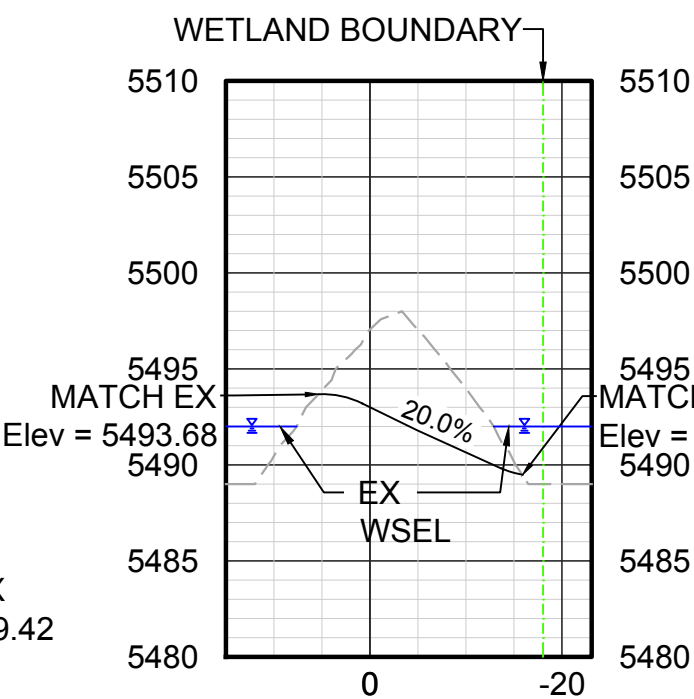
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REMOVE RUSSIAN OLIVE TREE

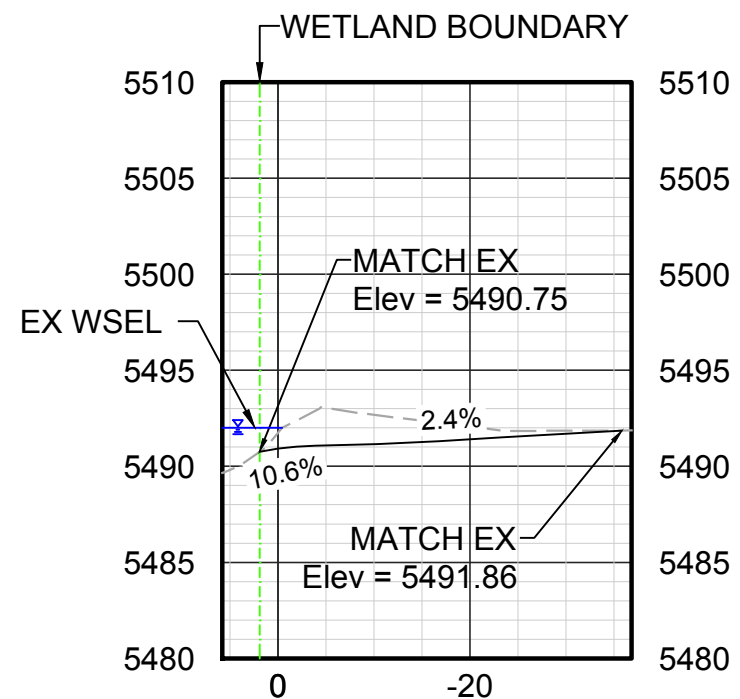
HAUL ROUTE, SEE SHEET 3



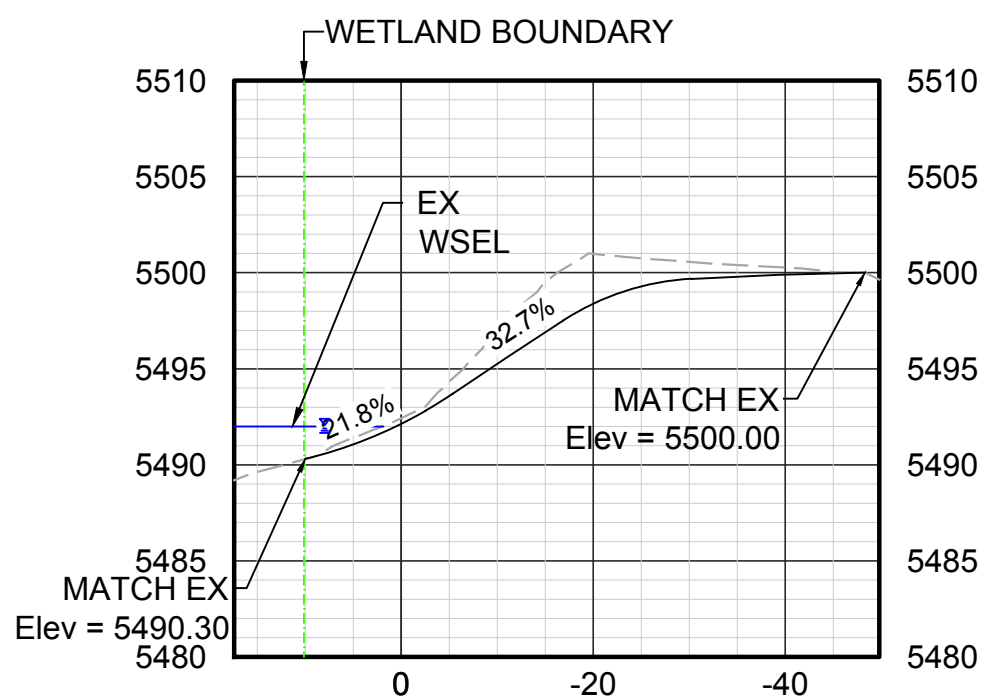
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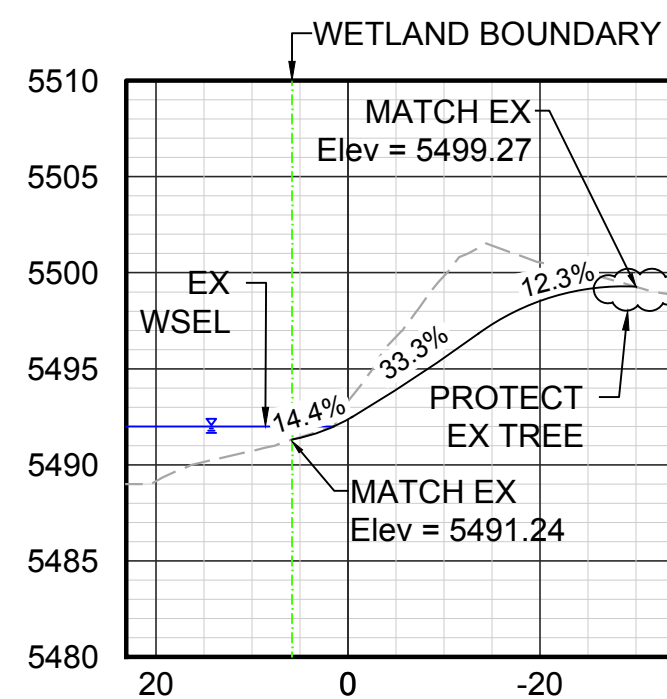
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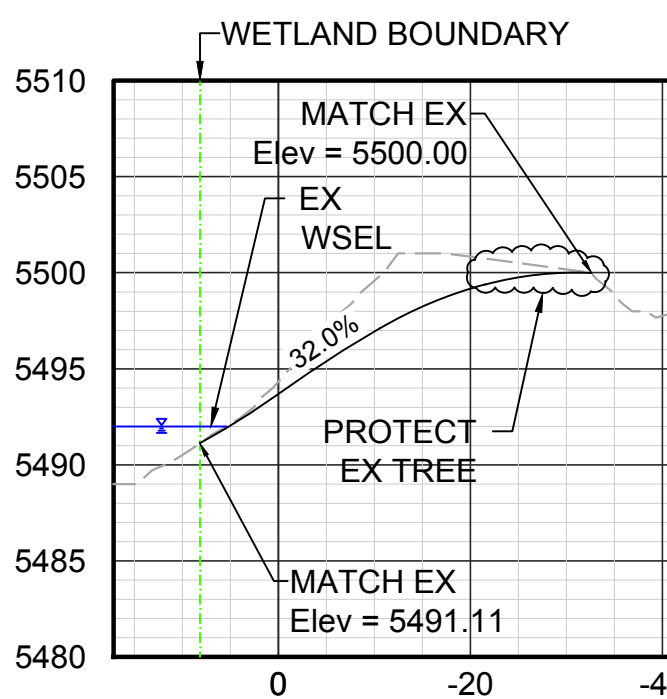
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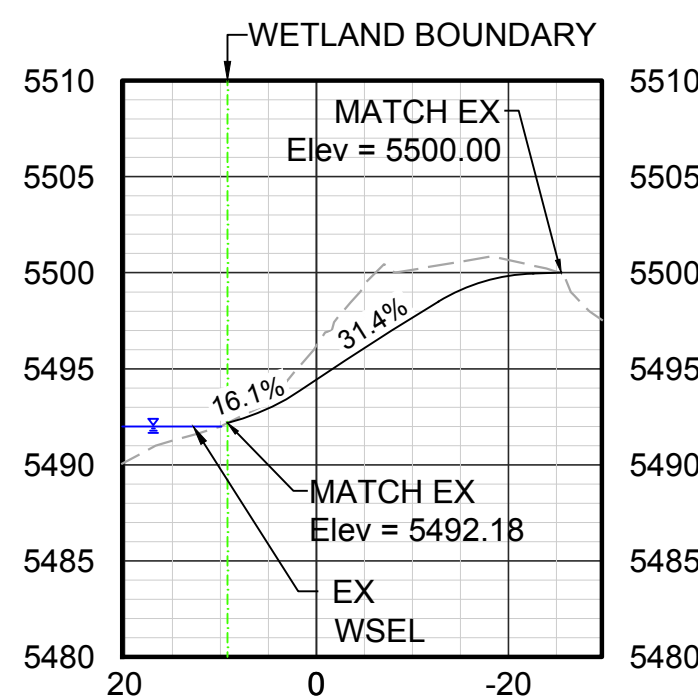
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SL-35 @ STA 1+00.00



SL-36 @ STA 1+50.00



SL-37 @ STA 2+00.00

D EASTERN POND RECLAMATION AREA
Horizontal Scale: 1" = 20' / Vertical Scale: 1" = 10'

E EASTERN POND RECLAMATION AREA
Horizontal Scale: 1" = 20' / Vertical Scale: 1" = 10'

F EASTERN POND RECLAMATION AREA
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No.	DATE	REVISIONS	APPR.

DRAWN BY: JIM
DESIGNED BY: JIM
APPROVED BY: AB



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PREPARED FOR:



Parks, Recreation &
Open Space

PREPARED BY:

ICON
ENGINEERING

7000 S. Yosemite Street, Suite 120
Centennial, CO 80112
Phone (303) 221-0802



CONFLUENCE NATURAL AREA RESTORATION

CONSTRUCTION DRAWINGS

EASTERN POND RECLAMATION AREAS (3)

DATE

NOV 2020

SHEET

8 OF 19

EARTHWORK/FILL
AREA NOTES:

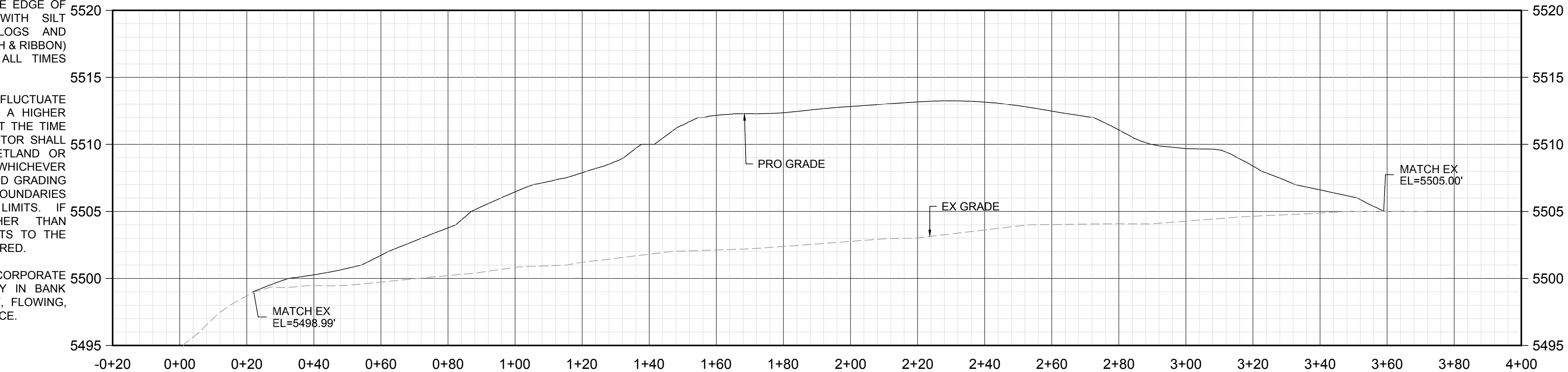
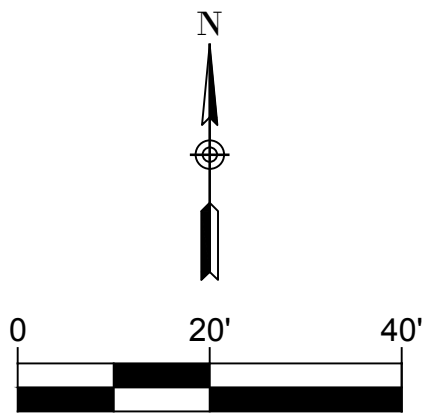
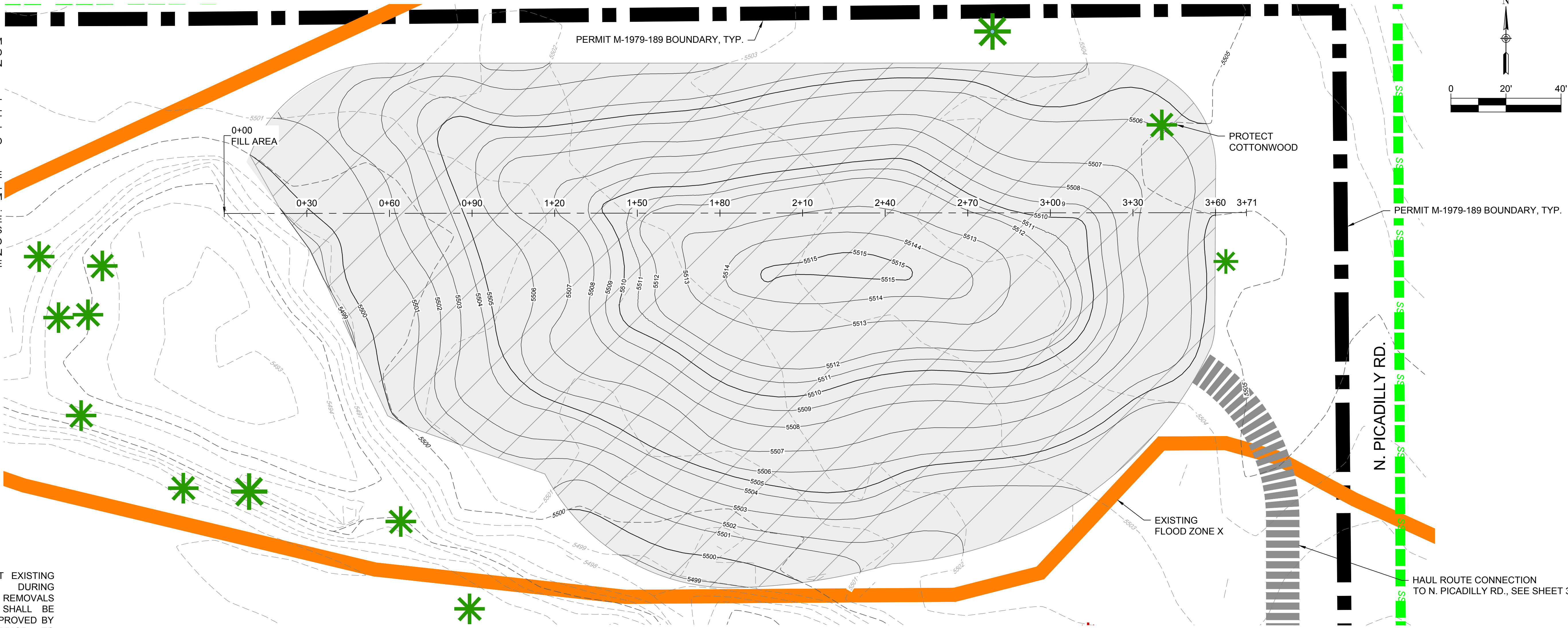
1. TOTAL CUT VOLUME FROM WESTERN, CENTRAL, AND EASTERN POND RECLAMATION AREAS: ~8600 CY.
2. DESIGNATED FILL AREA SHALL USE EXCAVATED MATERIAL FROM POND RECLAMATION CUT AREAS. NO IMPORT OR EXPORT OF SOILS FROM OR TO OFF-SITE LOCATIONS.
3. EXCAVATED MATERIAL TO BE USED IN DESIGNATED FILL AREA SHALL BE FREE FROM LARGE RECLAIMED LOGS. SMALLER WOOD SHALL BE PROCESSED INTO WOOD CHIPS AND INCORPORATED INTO TOPSOIL OR BURIED IN DESIGNATED FILL AREA. SEE NOTES ON PAGE 2

COA BENCHMARK:

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ELEV: 5,497.36
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LEGEND

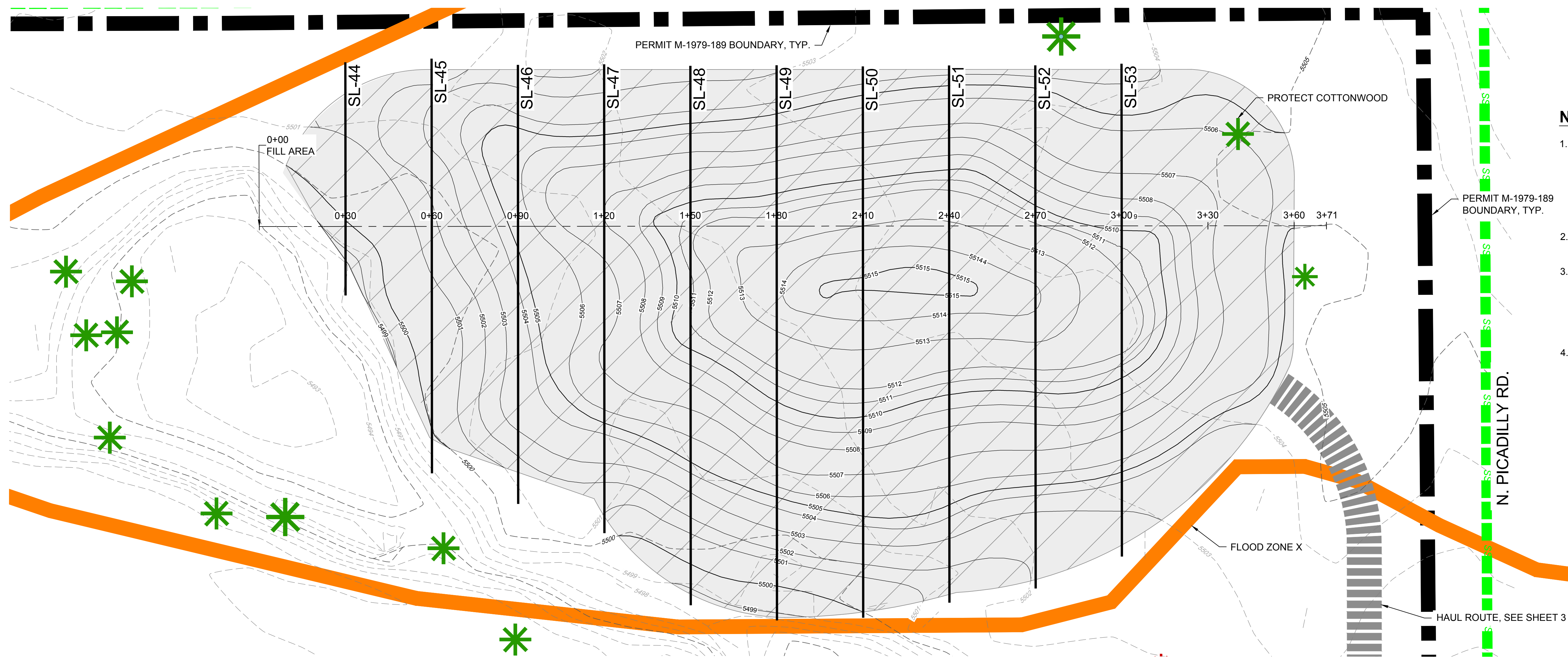
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G EASTERN POND RECLAMATION AREA

Horizontal Scale: 1" = 20' / Vertical Scale: 1" = 10'

				DRAWN BY: JIM		PREPARED FOR: 	PREPARED BY: ICON ENGINEERING 7000 S. Yosemite Street, Suite 120 Centennial, CO 80112 Phone (303) 221-0802		CONFLUENCE NATURAL AREA RESTORATION		DATE
				DESIGNED BY: JIM					CONSTRUCTION DRAWINGS		NOV 2020
				APPROVED BY: AB							SHEET
No.	DATE	REVISIONS							APPR.		

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NOTES:

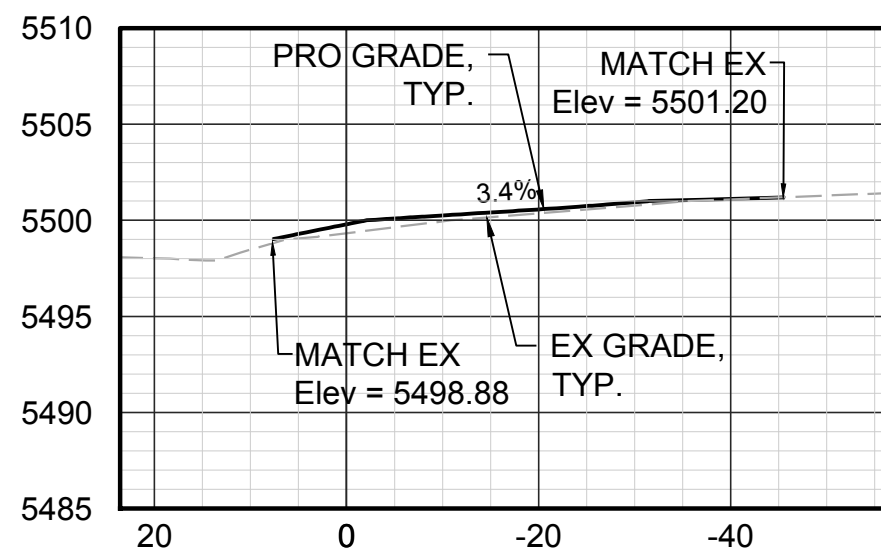
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COA BENCHMARK:

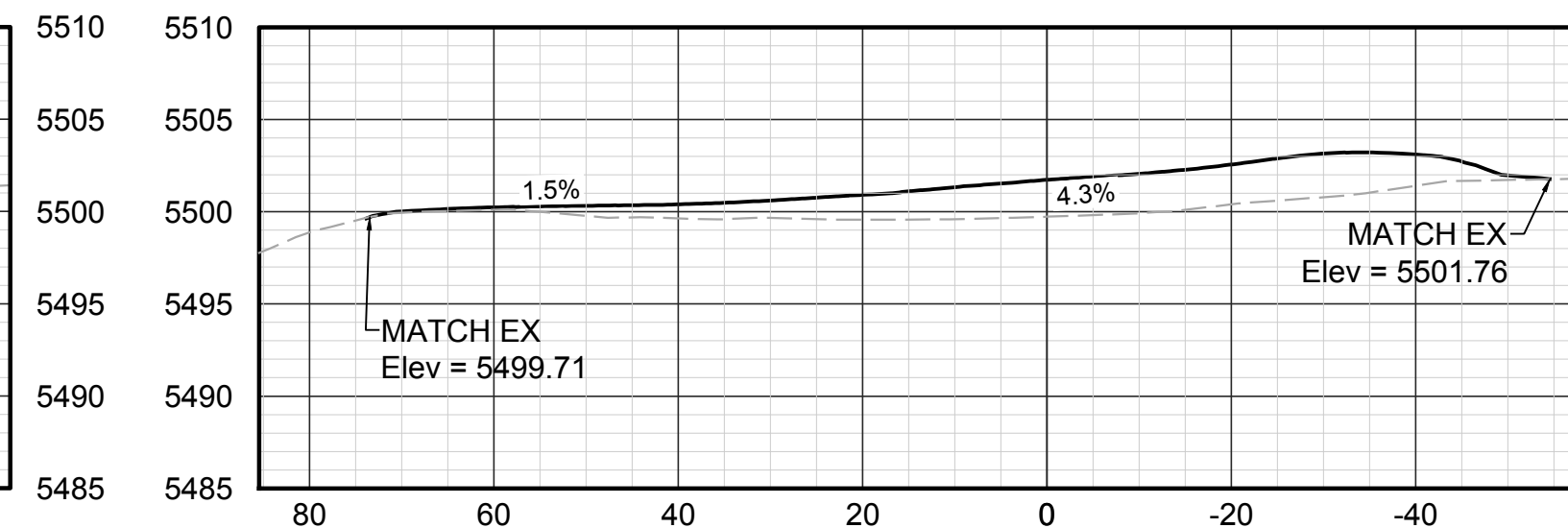
ID: 4S6611NW001
ELEV: 5,497.36
DESCRIPTION: 3" DIAM. BRASS CAP ON A 30" LONG STEEL PIPE IN CONC. BEING 22 FT. N. OF S. LINE N.W. 1/4 SEC. 11, T4S, R66W ALSO BEING 24 FT. N. OF N. BDY FE. FOR NAVY-MARINE CORPS RESERVE CENTER. MON. ALSO BEING 15.5 FT. M/L SWLY OF S.W. EDGE ASPHALT HWY #30.

LEGEND

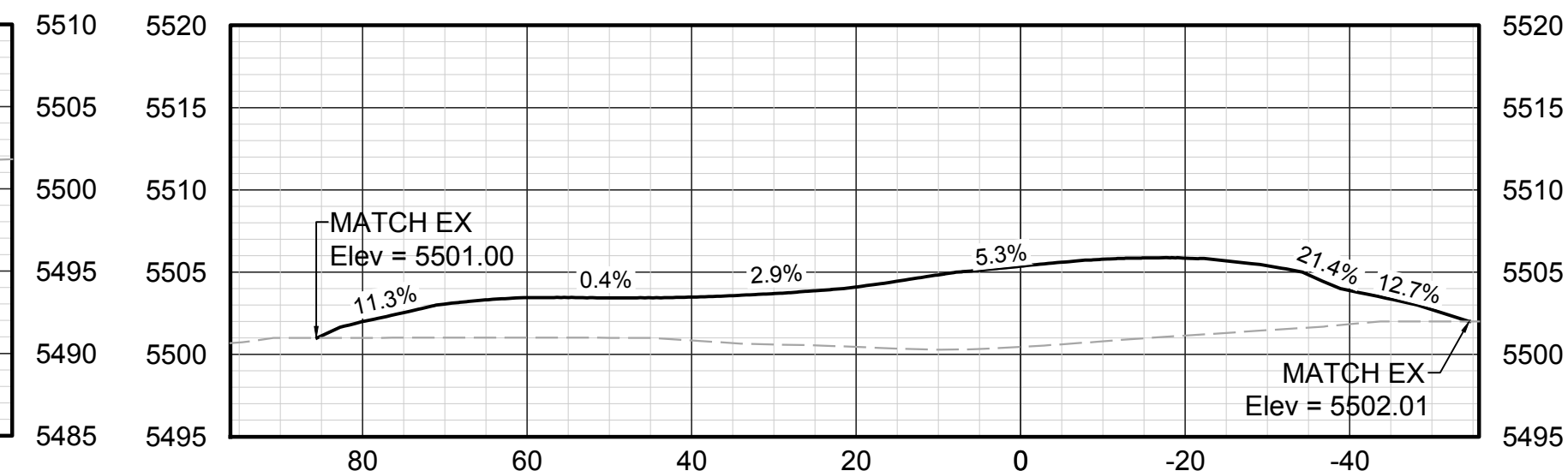
- WATER SURFACE ELEVATION, SEE NOTE 4
- REMOVE TREE
- PROTECT TREE
- PROPOSED CONTOURS
- EXISTING CONTOURS
- WETLAND BOUNDARY



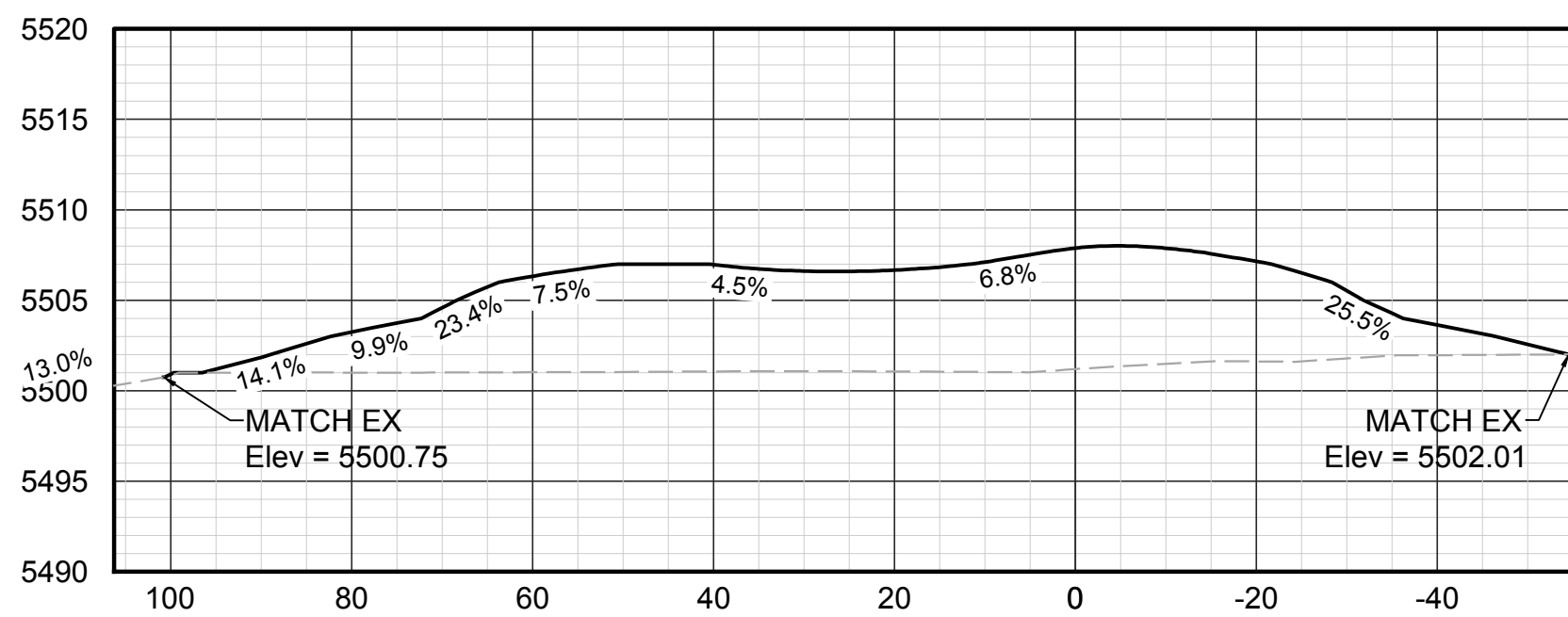
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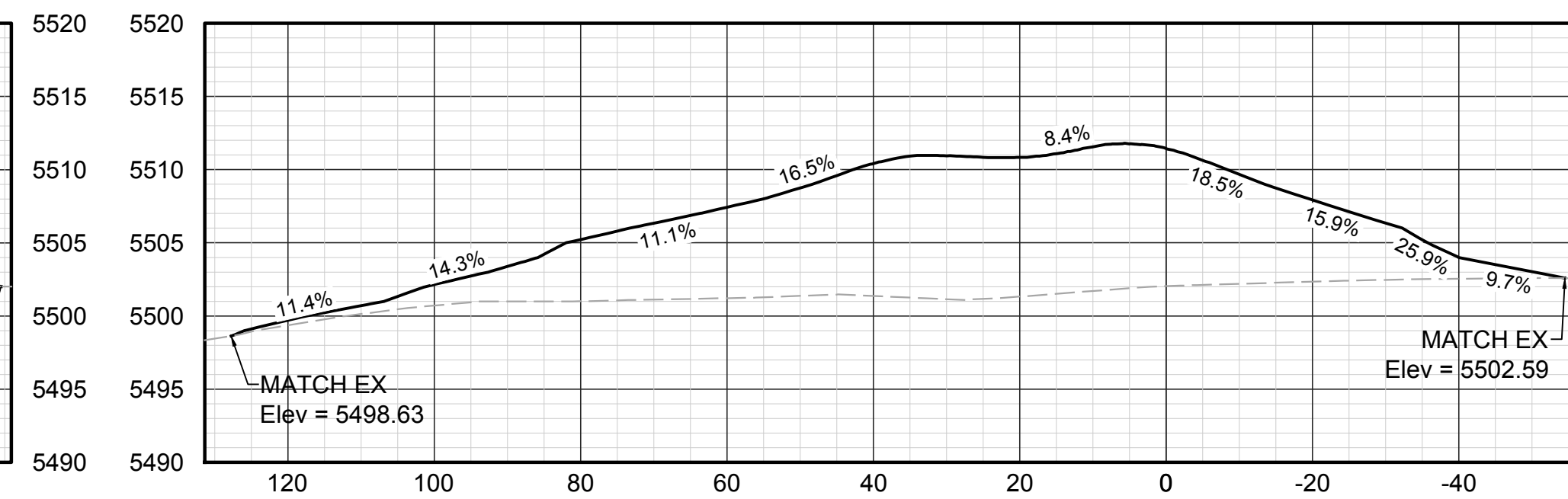
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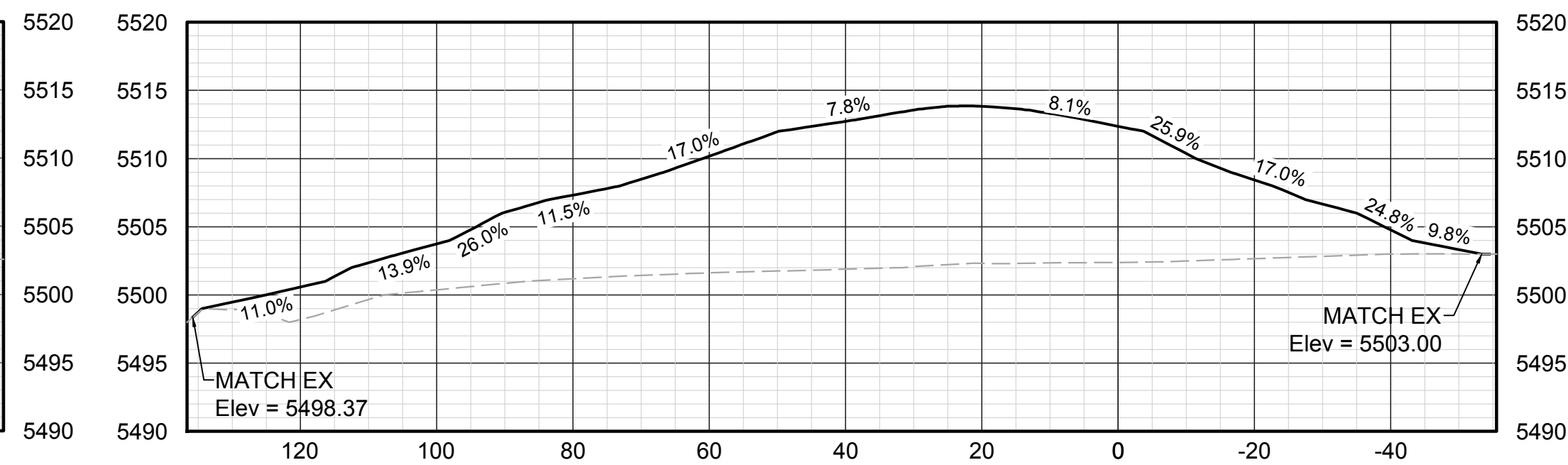
SL-46 @ STA 0+90.00



SL-47 @ STA 1+20.00



SL-48 @ STA 1+50.00



SL-49 @ STA 1+80.00

No.	DATE	REVISIONS	APPR.

DRAWN BY:	JIM
DESIGNED BY:	JIM
APPROVED BY:	AB



PREPARED FOR:



PREPARED BY:

ICON ENGINEERING
7000 S. Yosemite Street, Suite 120
Centennial, CO 80112
Phone (303) 221-0802



CONFLUENCE NATURAL AREA RESTORATION

CONSTRUCTION DRAWINGS

20-020

FILL AREA (2)

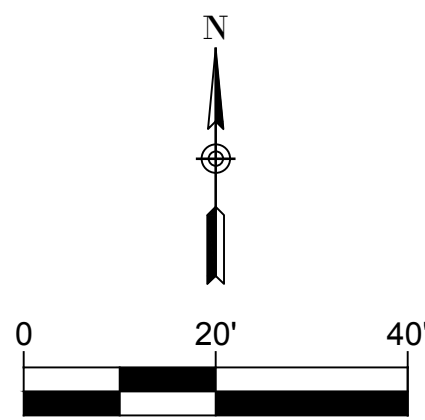
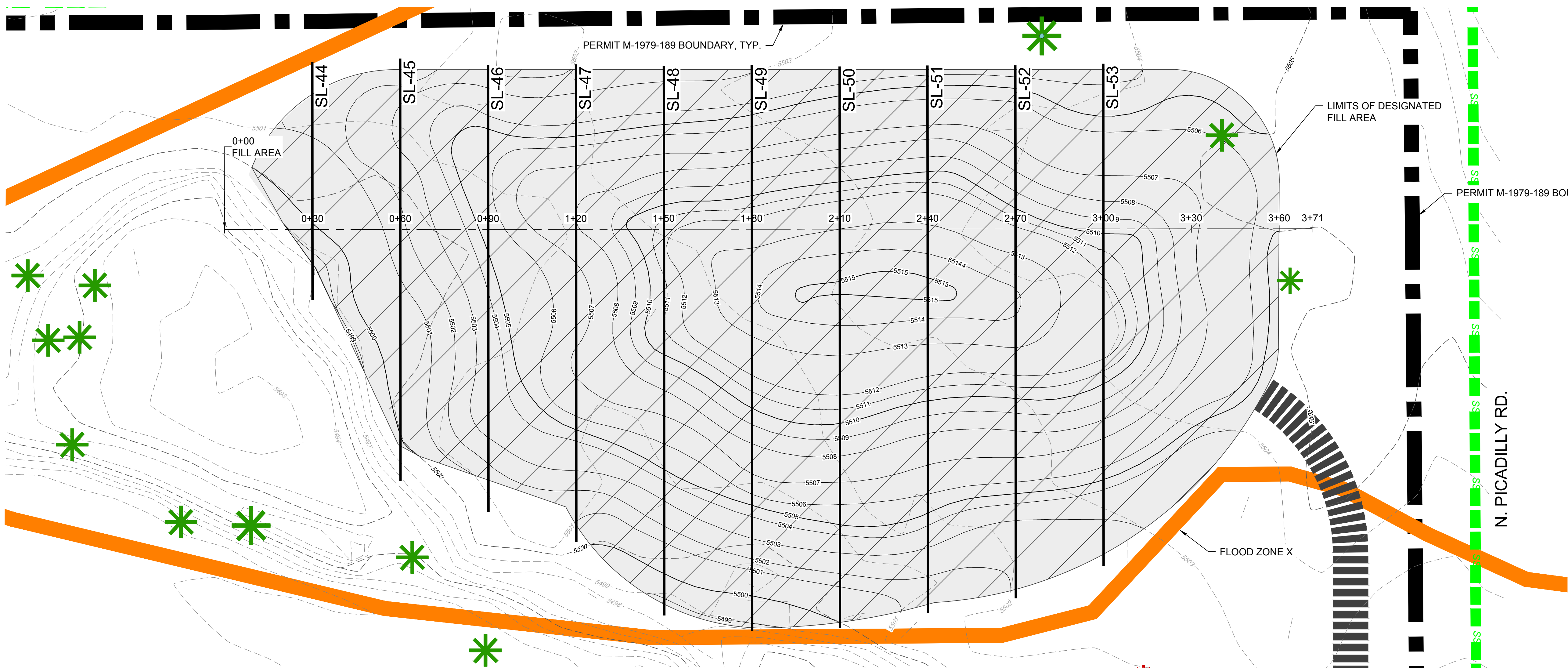
DATE

NOV 2020

SHEET

11 OF 19

P:\2020-2029 Confluence Natural Area Restoration\06 DWG\04 CIVIL\04 PLAN SET\Grading Plans\Grading Plans.dwg, Jrcmillan, Page Setup:---, ICON.sab, 2/12/2021 12:01 PM

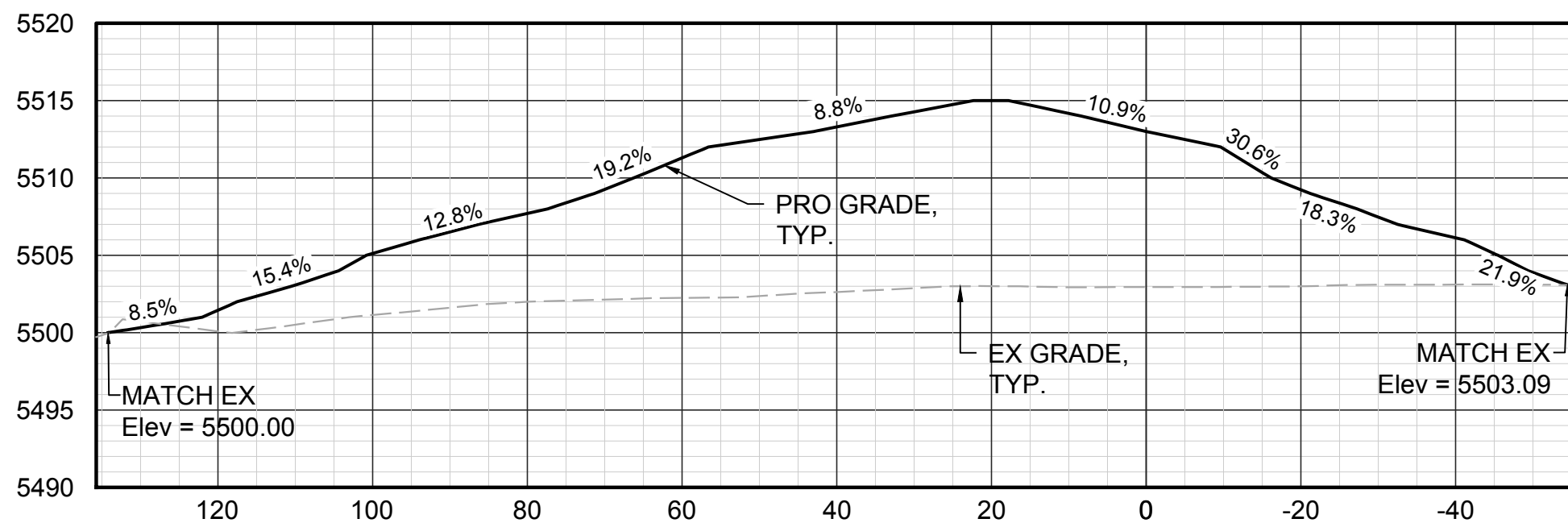


NOTES:

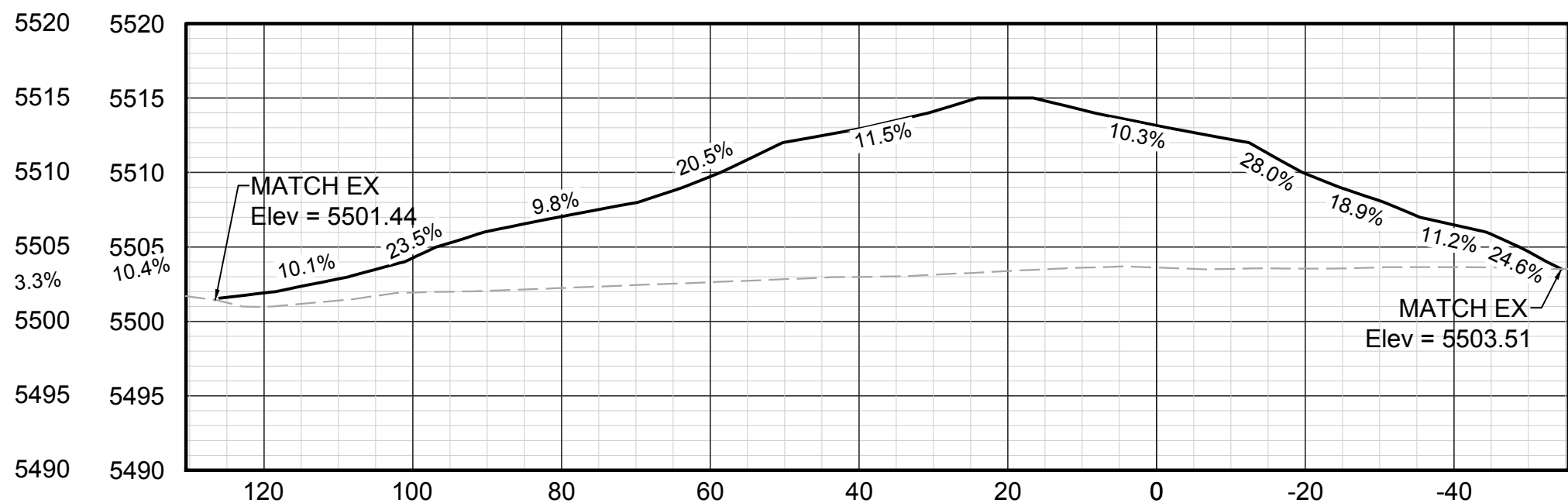
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LEGEND

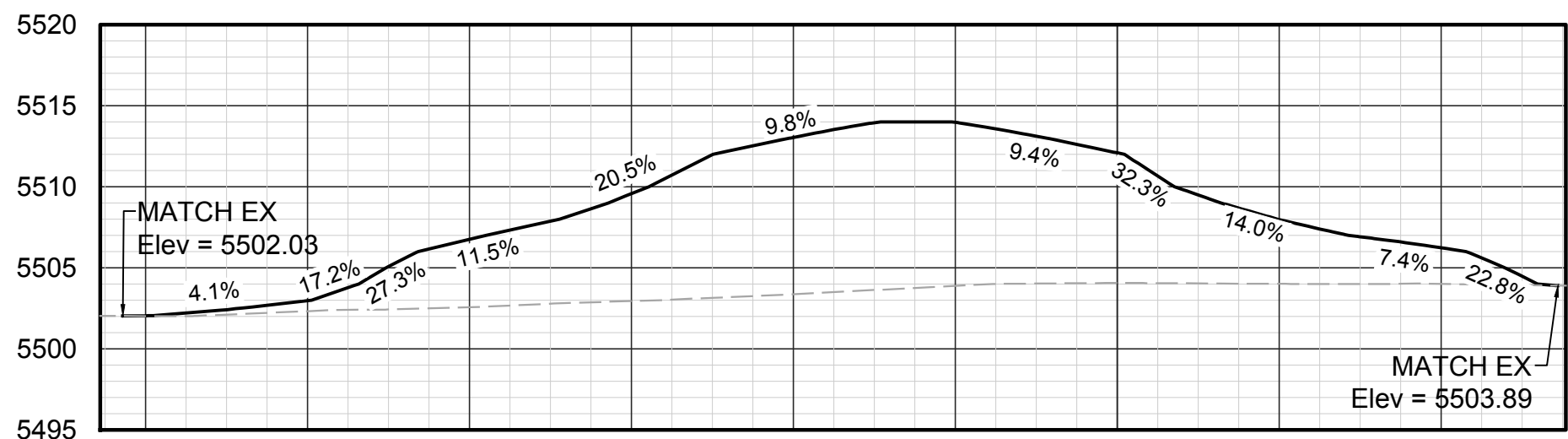
- WATER SURFACE ELEVATION, SEE NOTE 4
- REMOVE TREE
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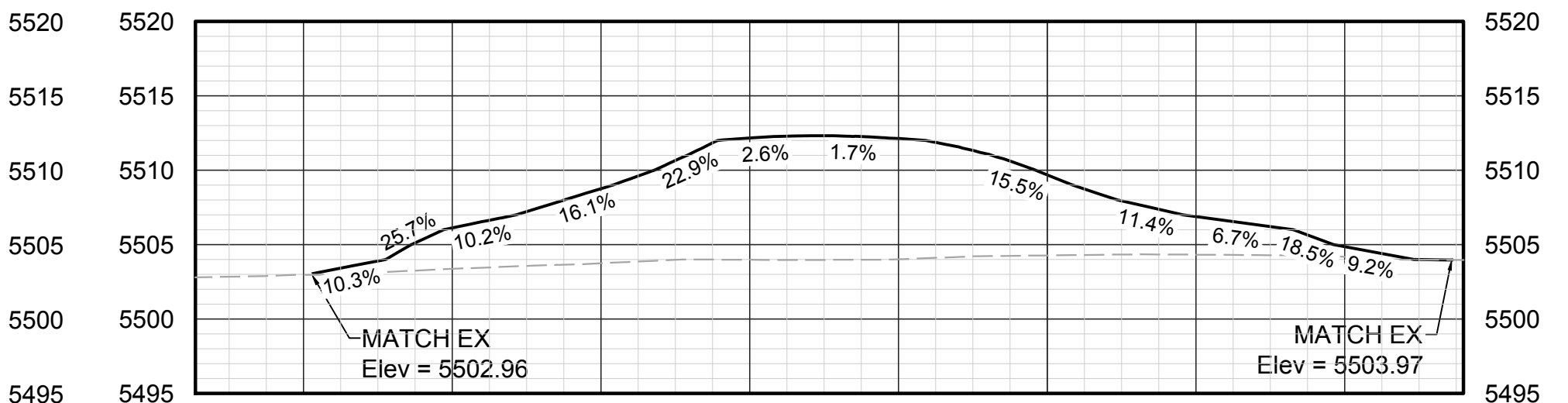
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SL-51 @ STA 2+40.00



SL-52 @ STA 2+70.00

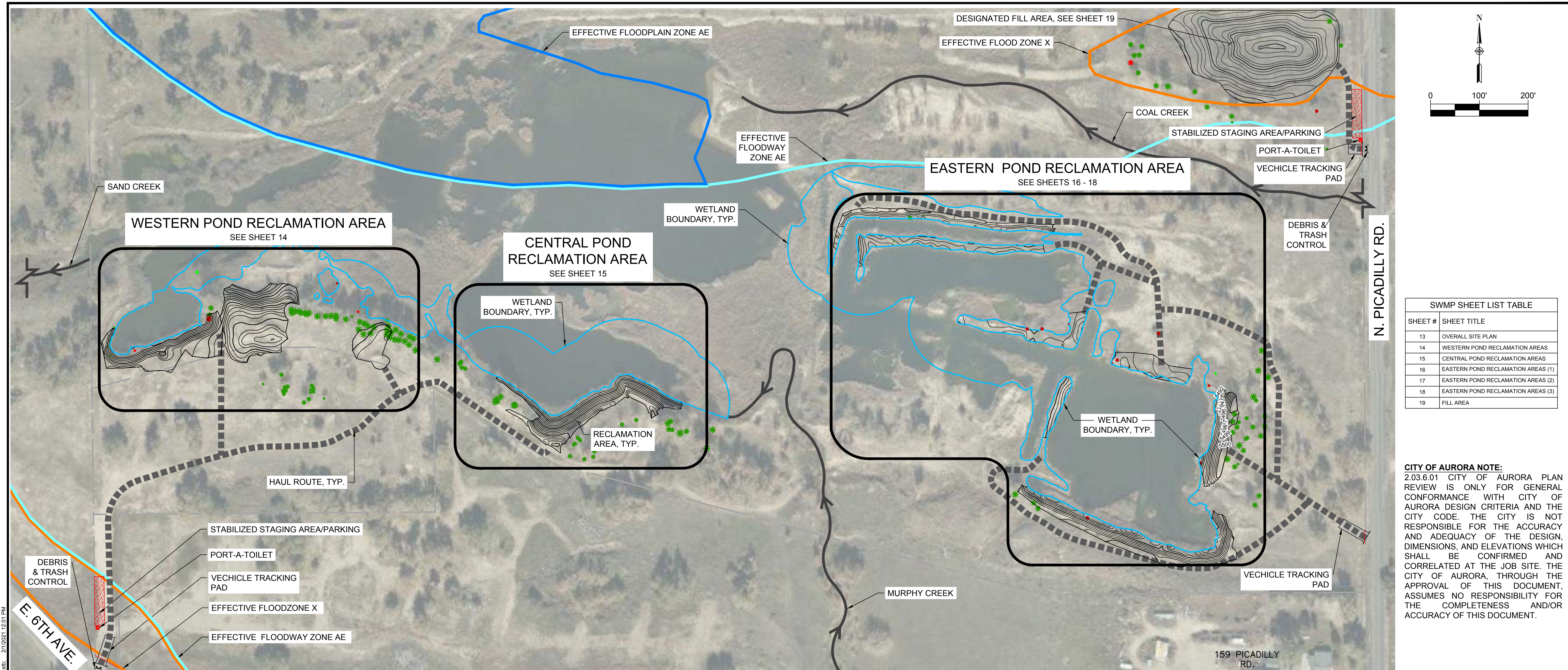


SL-53 @ STA 3+00.00

COA BENCHMARK:

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ELEV: 5,497.36
DESCRIPTION: 3" DIAM. BRASS CAP ON A 30" LONG STEEL PIPE IN CONC. BEING 22 FT. N. OF S. LINE N.W. 1/4 SEC. 11, T4S, R66W ALSO BEING 24 FT. N. OF N. BDY FE. FOR NAVY-MARINE CORPS RESERVE CENTER. MON. ALSO BEING 15.5 FT. M/L SWLY OF S.W. EDGE ASPHALT HWY #30.

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SWMP SHEET LIST TABLE	
SHEET #	SHEET TITLE
13	OVERALL SITE PLAN
14	WESTERN POND RECLAMATION AREAS
15	CENTRAL POND RECLAMATION AREAS
16	EASTERN POND RECLAMATION AREAS (1)
17	EASTERN POND RECLAMATION AREAS (2)
18	EASTERN POND RECLAMATION AREAS (3)
19	FILL AREA

STANDARD STATEMENT AND NOTES FOR SWMP DESIGN DRAWINGS "PURSUANT TO SECTIONS 138-440 AND 138-442 OF THE AURORA MUNICIPAL CODE, THE PERMITTEE SHALL LOCATE, INSTALL, AND MAINTAIN ALL BEST MANAGEMENT PRACTICES, INCLUDING, BUT NOT LIMITED TO, EROSION CONTROLS, SEDIMENT CONTROLS, DRAINAGE CONTROLS, AND WATER QUALITY BMPs AS INDICATED IN THE APPROVED STORMWATER MANAGEMENT PLAN (SWMP). THE FOLLOWING NOTES ARE A REQUIREMENT AND SHALL BE INCLUDED ON THE SWMP DESIGN DRAWINGS DEVELOPED FOR THIS PROJECT AND SUBMITTED FOR APPROVAL BY THE CITY. BMP INSTALLATIONS SHALL BE INSTALLED PER THE COA STANDARD DETAIL IN EFFECT AT THE TIME OF INSTALLATION OR PER THE APPROVED SWMP DESIGN DRAWING, A COA APPROVED VARIANCE, OR A COA APPROVED DESIGN DRAWING PLAN AMENDMENT."

FEMA NOTE:
FLOOD INSURANCE RATE MAP (FIRM) NUMBER 08005C0201L
VERSION NO. 2.3.3.2, MAP REVISION DATE: FEBRUARY 17, 2017

COMMUNITY	NUMBER	PANEL	SUFFIX
ARAPAHOE COUNTY	080011	0201	L
AURORA, CITY OF	080002	0201	L

PROJECT OWNER/DEVELOPER SIGNATURE BLOCK
I HAVE REVIEWED THE INFORMATION CONTAINED WITHIN
THE STORMWATER MANAGEMENT PLAN AND ACCEPT
RESPONSIBILITY FOR THE REQUIRES SET FORTH

PLAN PREPARER SIGNATURE BLOCK
I ACKNOWLEDGE MY RESPONSIBILITY FOR THE
PREPARATION OF THE STORMWATER MANAGEMENT PLAN

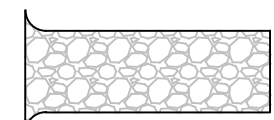
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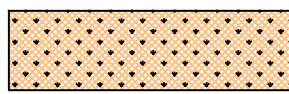
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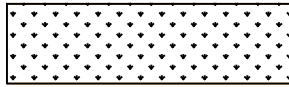
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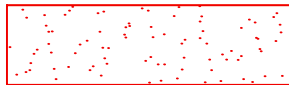
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FINAL

SEEDING AND MULCHING



SM
FINAL

STABILIZED STAGING AREA



SSA
INITIAL/INTERIM

PORT A TOILET



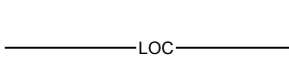
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DEBRIS & TRASH CONTROL



DTC
INITIAL/INTERIM

LIMITS OF CONSTRUCTION



LOC
INITIAL/INTERIM

REINFORCED SILT FENCE



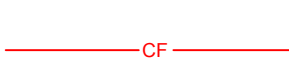
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INITIAL/INTERIM

SILT FENCE



SF
INITIAL/INTERIM

CONSTRUCTION FENCE



CF
INITIAL/INTERIM

SEDIMENT CONTROL LOG



SCL
INITIAL/INTERIM

CITY OF AURORA NOTE:

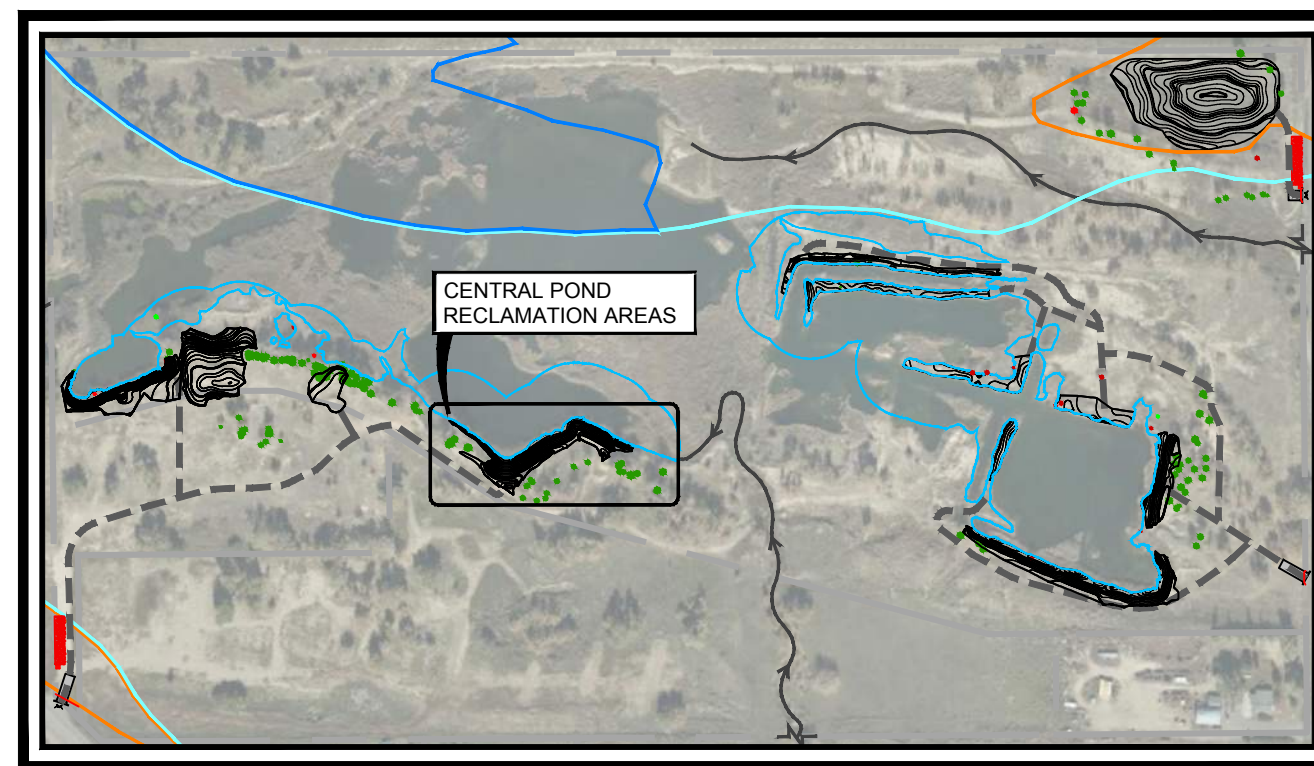
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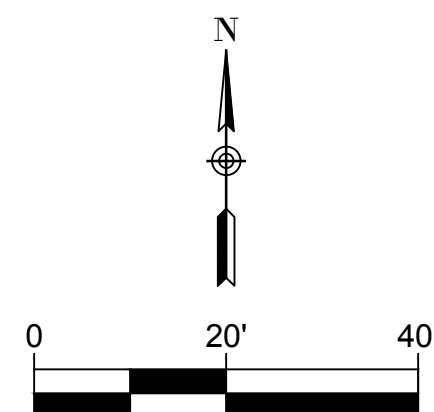
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VERSION NO. 2.3.3.2, MAP REVISION DATE: FEBRUARY 17, 2017

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AURORA, CITY OF	080002	0201	L

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KEY MAP
SCALE: 1" = 400'



No.	DATE	REVISIONS	APPR.

DRAWN BY:	JIM
DESIGNED BY:	JIM
APPROVED BY:	AB



PREPARED FOR:



PREPARED BY:

**ICON
ENGINEERING**
7000 S. Yosemite Street, Suite 120
Centennial, CO 80112
Phone (303) 221-0802



CONFLUENCE NATURAL AREA RESTORATION

SWMP

CENTRAL POND RECLAMATION AREAS

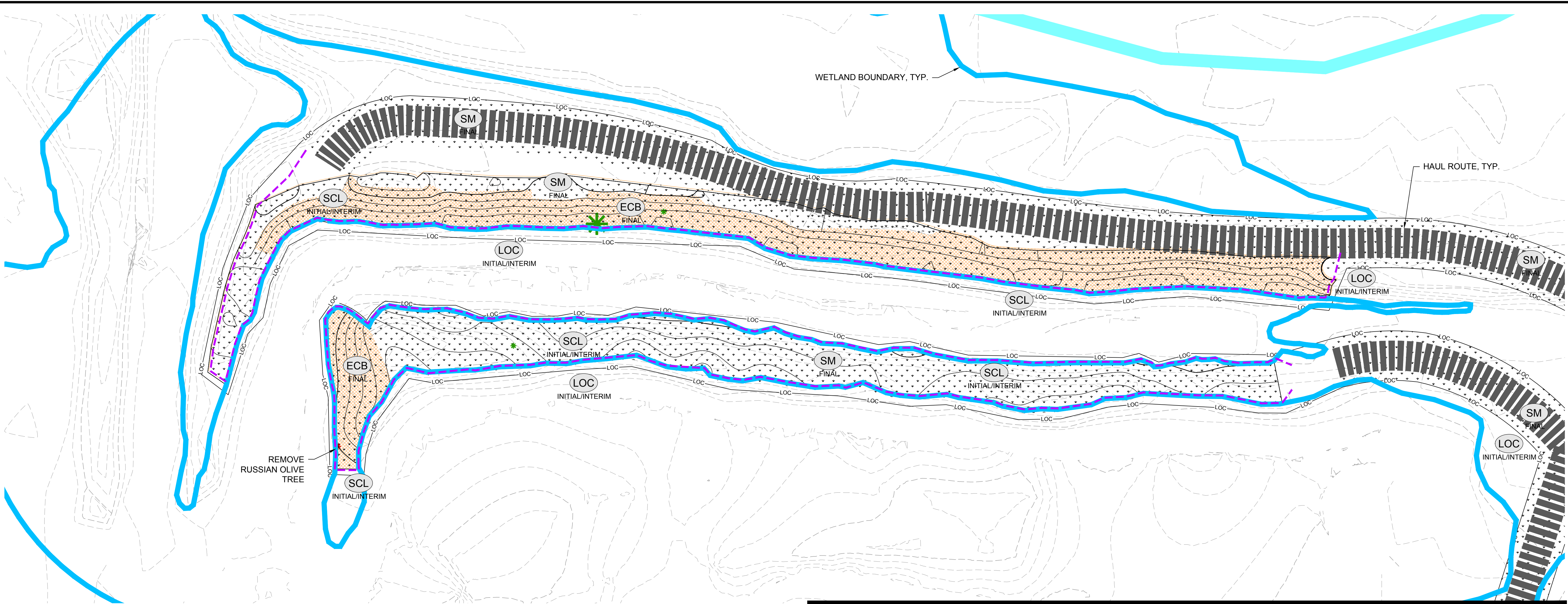
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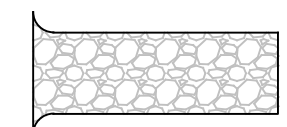
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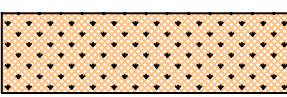
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VEHICLE TRACKING CONTROL



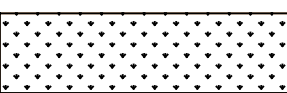
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INITIAL/INTERIM

SEEDED EROSION CONTROL
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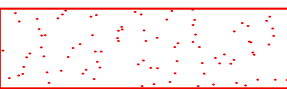
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FINAL

SEEDING AND MULCHING



SM
FINAL

STABILIZED STAGING AREA



SSA
INITIAL/INTERIM

PORT A TOILET



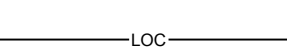
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INITIAL/INTERIM

DEBRIS & TRASH CONTROL



DTC
INITIAL/INTERIM

LIMITS OF CONSTRUCTION



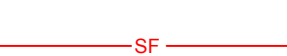
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REINFORCED SILT FENCE



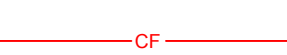
RSF
INITIAL/INTERIM

SILT FENCE



SF
INITIAL/INTERIM

CONSTRUCTION FENCE



CF
INITIAL/INTERIM

SEDIMENT CONTROL LOG



SCL
INITIAL/INTERIM

CITY OF AURORA NOTE:

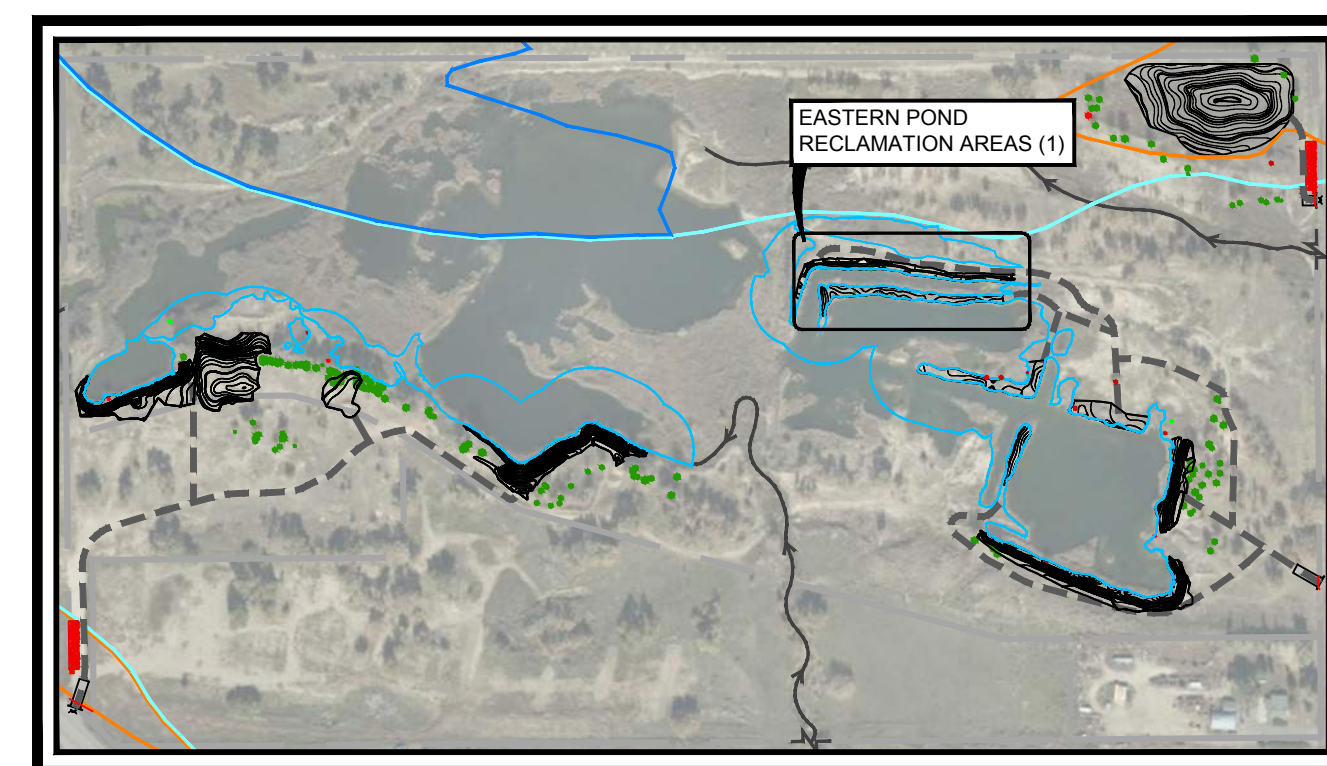
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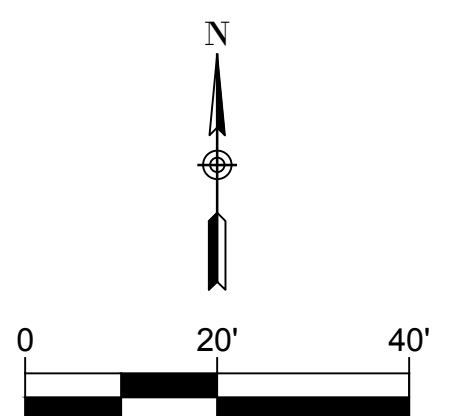
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KEY MAP
SCALE: 1" = 400'



DRAWN BY:

JIM

DESIGNED BY:

JIM

APPROVED BY:

AB

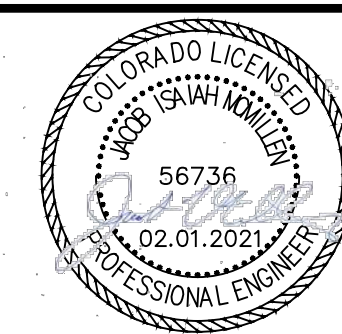


PREPARED FOR:



PREPARED BY:

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ENGINEERING
7000 S. Yosemite Street, Suite 120
Centennial, CO 80112
Phone (303) 221-0802



CONFLUENCE NATURAL AREA RESTORATION

SWMP

EASTERN POND RECLAMATION AREAS (1)

DATE

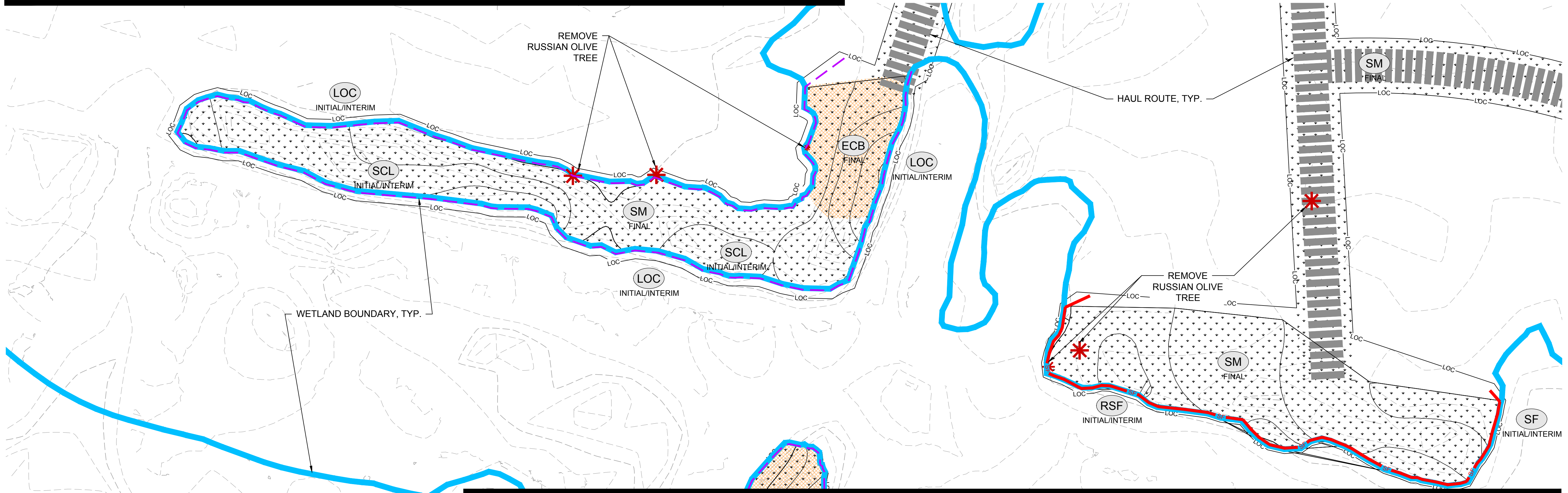
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SHEET

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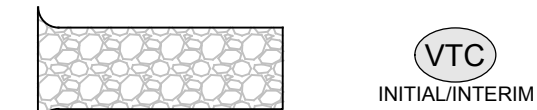
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MATCHLINE, SEE SHEET 18

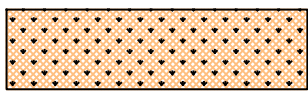
BMP LEGEND

VEHICLE TRACKING CONTROL



(VTC)
INITIAL/INTERIM

SEEDED EROSION CONTROL
BLANKET



(ECB)
FINAL

SEEDING AND MULCHING



(SM)
FINAL

STABILIZED STAGING AREA



(SSA)
INITIAL/INTERIM

PORT A TOILET



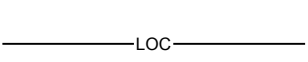
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INITIAL/INTERIM

DEBRIS & TRASH CONTROL



(DTC)
INITIAL/INTERIM

LIMITS OF CONSTRUCTION



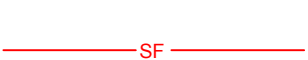
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INITIAL/INTERIM

REINFORCED SILT FENCE



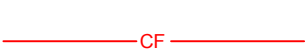
(RSF)
INITIAL/INTERIM

SILT FENCE



(SF)
INITIAL/INTERIM

CONSTRUCTION FENCE



(CF)
INITIAL/INTERIM

SEDIMENT CONTROL LOG



(SCL)
INITIAL/INTERIM

CITY OF AURORA NOTE:

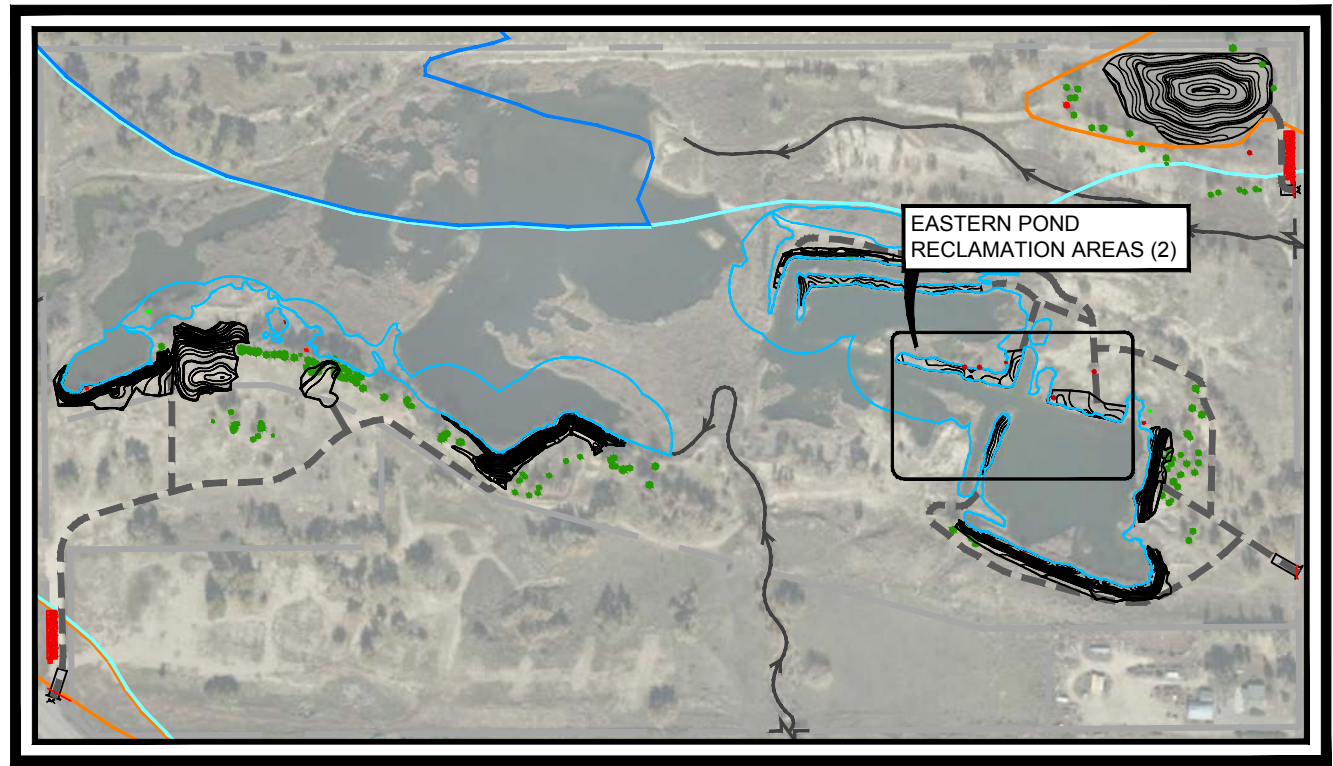
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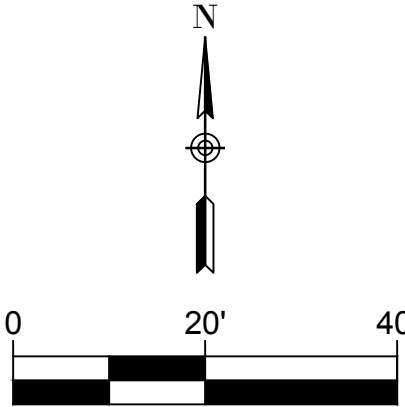
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KEY MAP
SCALE: 1" = 400'



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No.	DATE	REVISIONS	APPR.

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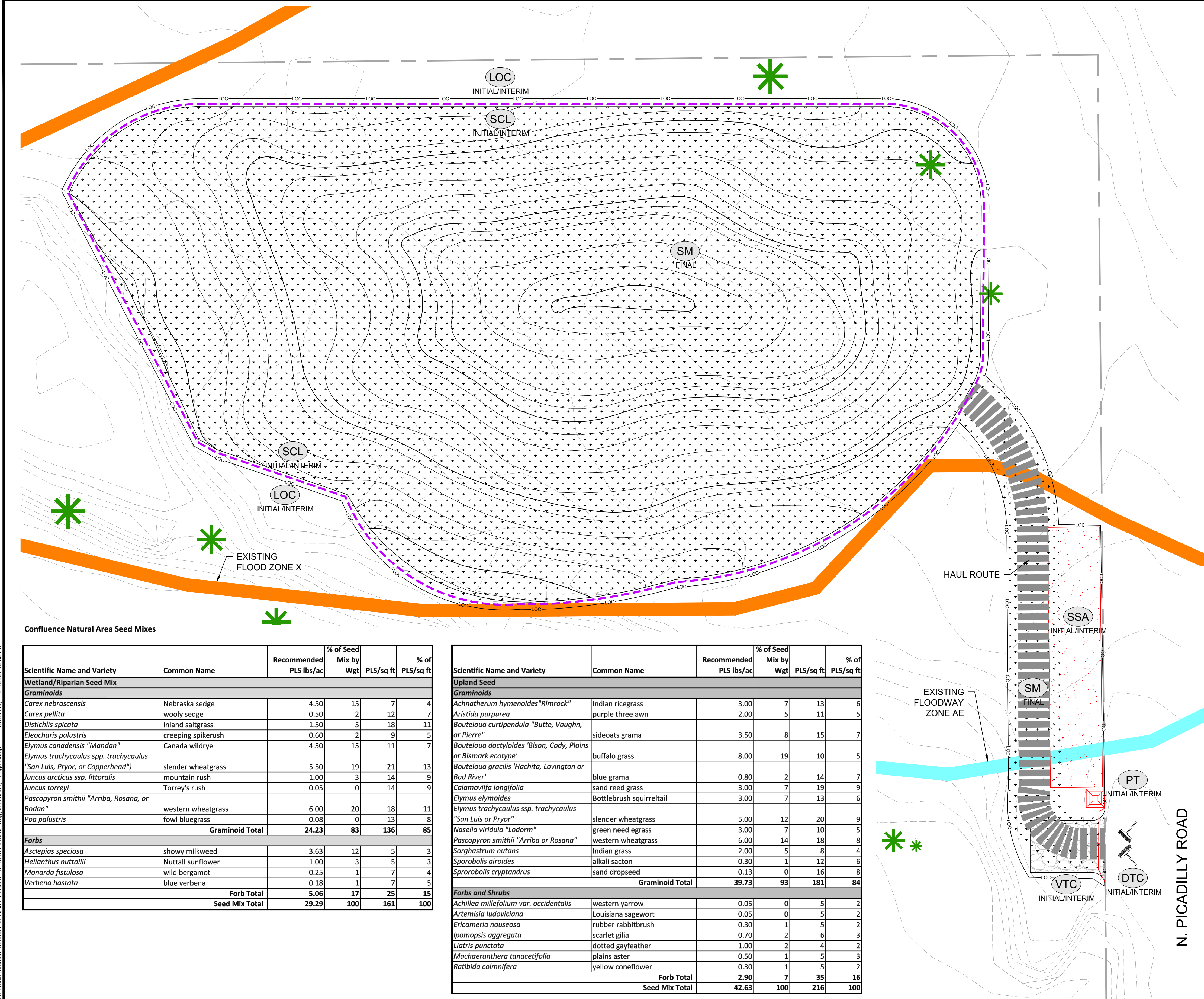


PREPARED BY:

ICON ENGINEERING
7000 S. Yosemite Street, Suite 120
Centennial, CO 80112
Phone (303) 221-0802



CONFLUENCE NATURAL AREA RESTORATION	DATE
SWMP	NOV 2020
EASTERN POND RECLAMATION AREAS (2)	SHEET
20-020	17 OF 19



BMP LEGEND

VEHICLE TRACKING CONTROL		VTC INITIAL/INTERIM
SEEDED EROSION CONTROL BLANKET		ECB FINAL
SEEDING AND MULCHING		SM FINAL
STABILIZED STAGING AREA		SSA INITIAL/INTERIM
PORT A TOILET		PT INITIAL/INTERIM
DEBRIS & TRASH CONTROL		DTC INITIAL/INTERIM
LIMITS OF CONSTRUCTION		LOC INITIAL/INTERIM
REINFORCED SILT FENCE		RSF INITIAL/INTERIM
SILT FENCE		SF INITIAL/INTERIM
CONSTRUCTION FENCE		CF INITIAL/INTERIM
SEDIMENT CONTROL LOG		SCL INITIAL/INTERIM

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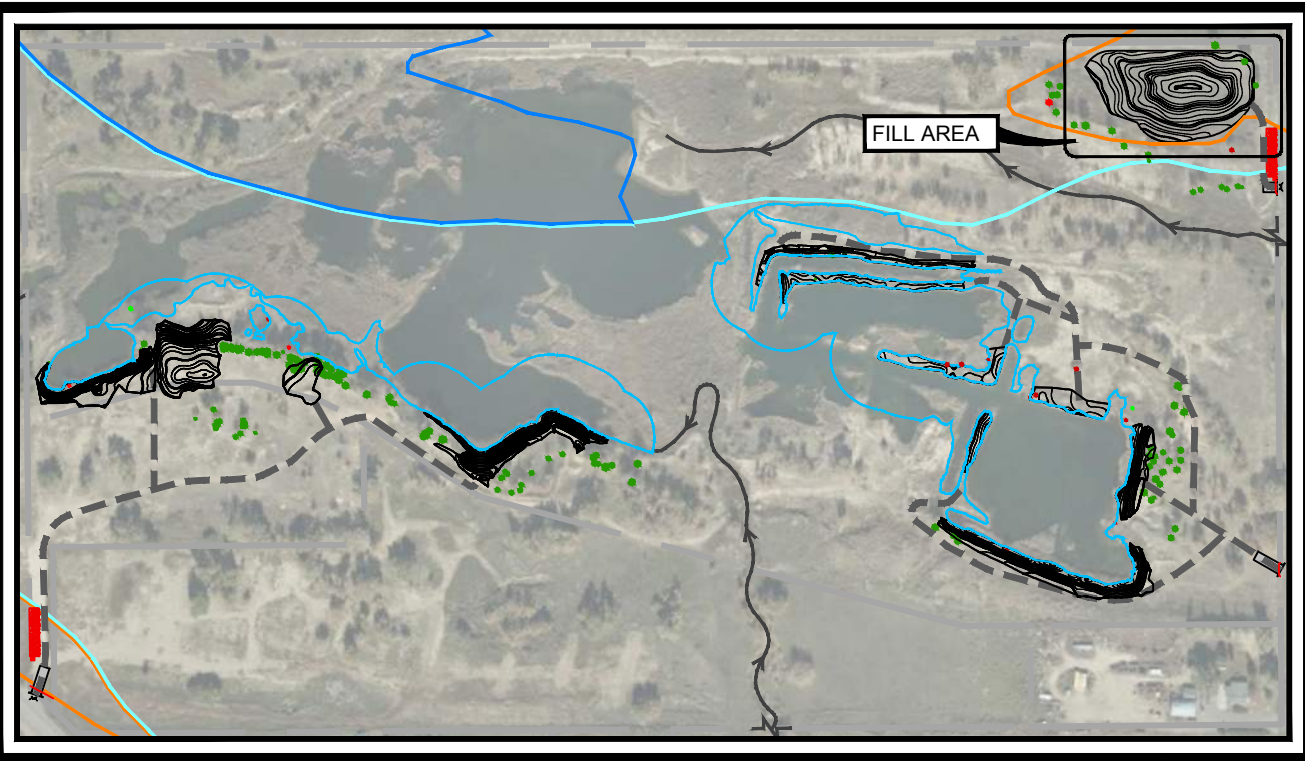
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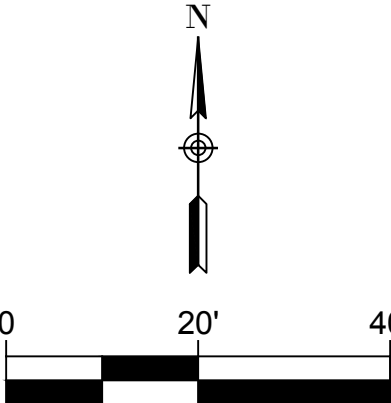
Confluence Natural Area Seed Mixes

Scientific Name and Variety	Common Name	Recommended PLS lbs/ac	% of Seed Mix by Wgt	PLS/sq ft	% of PLS/sq ft
Wetland/Riparian Seed Mix					
Graminoids					
<i>Carex nebrascensis</i>	Nebraska sedge	4.50	15	7	4
<i>Carex pellita</i>	wooly sedge	0.50	2	12	7
<i>Distichlis spicata</i>	inland saltgrass	1.50	5	18	11
<i>Eleocharis palustris</i>	creeping spikerush	0.60	2	9	5
<i>Elymus canadensis</i> "Mandan"	Canada wildrye	4.50	15	11	7
<i>Elymus trachycaulus</i> spp. <i>trachycaulus</i> "San Luis, Pryor, or Copperhead")	slender wheatgrass	5.50	19	21	13
<i>Juncus arcticus</i> ssp. <i>littoralis</i>	mountain rush	1.00	3	14	9
<i>Juncus torreyi</i>	Torrey's rush	0.05	0	14	9
<i>Pascopyron smithii</i> "Arriba, Rosana, or Rodan"	western wheatgrass	6.00	20	18	11
<i>Poa palustris</i>	fowl bluegrass	0.08	0	13	8
Graminoid Total		24.23	83	136	85
Forbs					
<i>Asclepias speciosa</i>	showy milkweed	3.63	12	5	3
<i>Helianthus nuttallii</i>	Nuttall sunflower	1.00	3	5	3
<i>Monarda fistulosa</i>	wild bergamot	0.25	1	7	4
<i>Verbena hastata</i>	blue verbena	0.18	1	7	5
Forb Total		5.06	17	25	15
Seed Mix Total		29.29	100	161	100

Scientific Name and Variety	Common Name	Recommended PLS lbs/ac	% of Seed Mix by Wgt	PLS/sq ft	% of PLS/sq ft
Upland Seed					
Graminoids					
<i>Achnatherum hymenoides</i> "Rimrock"	Indian ricegrass	3.00	7	13	6
<i>Aristida purpurea</i>	purple three awn	2.00	5	11	5
<i>Bouteloua curtipendula</i> "Butte, Vaughn, or Pierre"	sideoats grama	3.50	8	15	7
<i>Bouteloua dactyloides</i> "Bison, Cody, Plains or Bismark ecotype"	buffalo grass	8.00	19	10	5
<i>Bouteloua gracilis</i> "Hachita, Lovington or Bad River"	blue grama	0.80	2	14	7
<i>Calamovilfa longifolia</i>	sand reed grass	3.00	7	19	9
<i>Elymus elymoides</i>	Bottlebrush squirreltail	3.00	7	13	6
<i>Elymus trachycaulus</i> ssp. <i>trachycaulus</i> "San Luis or Pryor"	slender wheatgrass	5.00	12	20	9
<i>Nasella viridula</i> "Lodorm"	green needlegrass	3.00	7	10	5
<i>Pascopyron smithii</i> "Arriba or Rosana"	western wheatgrass	6.00	14	18	8
<i>Sorghastrum nutans</i>	Indian grass	2.00	5	8	4
<i>Sporobolus airoides</i>	alkali sacaton	0.30	1	12	6
<i>Sporobolus cryptandrus</i>	sand dropseed	0.13	0	16	8
Graminoid Total		39.73	93	181	84
Forbs and Shrubs					
<i>Achillea millefolium</i> var. <i>occidentalis</i>	western yarrow	0.05	0	5	2
<i>Artemisia ludoviciana</i>	Louisiana sagewort	0.05	0	5	2
<i>Ericameria nauseosa</i>	rubber rabbitbrush	0.30	1	5	2
<i>Ipomopsis aggregata</i>	scarlet gilia	0.70	2	6	3
<i>Liatris punctata</i>	dotted gayfeather	1.00	2	4	2
<i>Machaeranthera tanacetifolia</i>	plains aster	0.50	1	5	3
<i>Ratibida colmanifera</i>	yellow coneflower	0.30	1	5	2
Forb Total		2.90	7	35	16
Seed Mix Total		42.63	100	216	100



KEY MAP
SCALE: 1" = 400'



No.	DATE	REVISIONS	APPR.

DRAWN BY:	JIM
DESIGNED BY:	JIM
APPROVED BY:	AB



PREPARED FOR:



PREPARED BY:

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CONFLUENCE NATURAL AREA RESTORATION		DATE
SWMP		NOV 2020
FILL AREA		SHEET
20-020		19 OF 19