

AURORA PARKS, RECREATION & OPEN SPACE

CONFLUENCE NATURAL AREA RESTORATION

CONSTRUCTION PLANS

ICON PROJECT NO.: 20-020

COA PROJECT NO.: _____

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

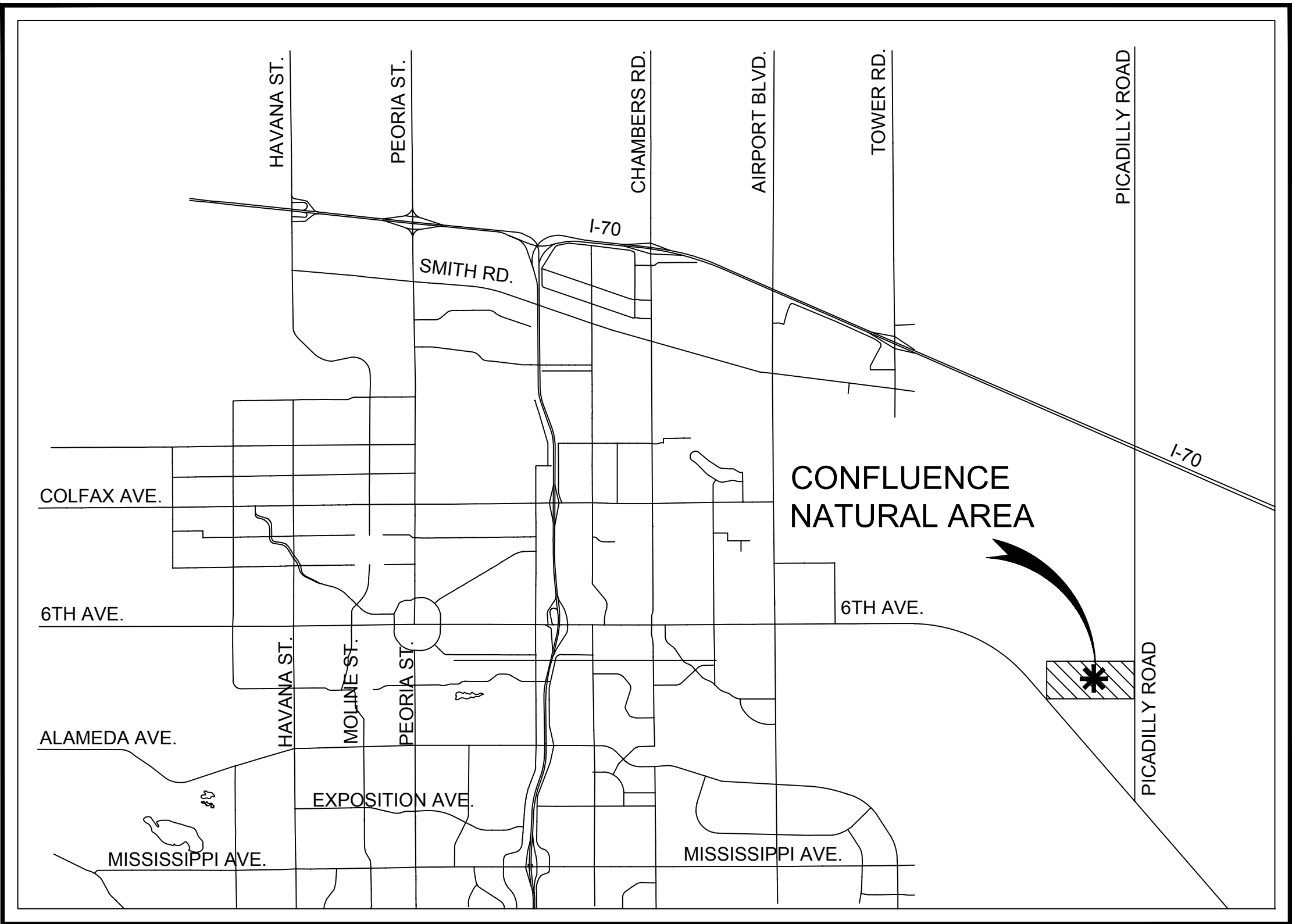
AARON BOUSSELOT
7000 S. YOSEMITE STREET, SUITE 120
CENTENNIAL, CO 80112
PHONE (303) 221-0802

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

INDEX OF SHEETS

SHEET LIST TABLE	
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)
7	EASTERN POND RECLAMATION AREAS (2)
8	EASTERN POND RECLAMATION AREAS (3)
9	EASTERN POND RECLAMATION AREAS (4)
10	FILL AREA
11	FILL AREA (2)
12	FILL AREA (3)
13 - 19	SWMP

FOR AND ON BEHALF OF
ICON ENGINEERING, INC.

PROJECT MANAGER: AARON BOUSSELOT, PE, CFM

DATE

PROJECT ENGINEER: JACOB MCMILLEN, PE

DATE

PLOT DATE: Thursday, November 12, 2020



APPROVED FOR ONE YEAR FROM THIS DATE

CITY ENGINEER

DATE

PARKS, RECREATION, AND OPEN SPACE

DATE

P:\P20-020 Confluence Natural Area Restoration\06 DWG\04 CIVIL\04 PLAN SETS\Grading Plans\COVER.dwg, J:\mcmiller, Page Setup:..., ICON.snb, 11/12/2020 12:09 PM

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 MURPHEY 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 CONTACTOR 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 PREAPRED 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 ACCORDNACE 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 CLARIFTY. CONTRACTOR SHALL PROVIDE A FINISHED SURFACE WITH NAUTRAL APPEARANCE THE COMPLIMENTS EXISITNG SITE VARIABILITY. GRADING OPERATIONS SHALL INCLUDE IRREGULAR AND UNDLATING 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 TRASPORT 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: SHOBELS, 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:

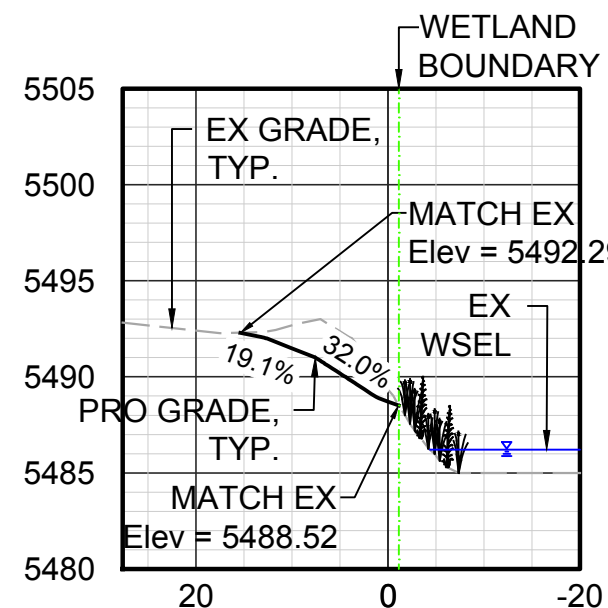
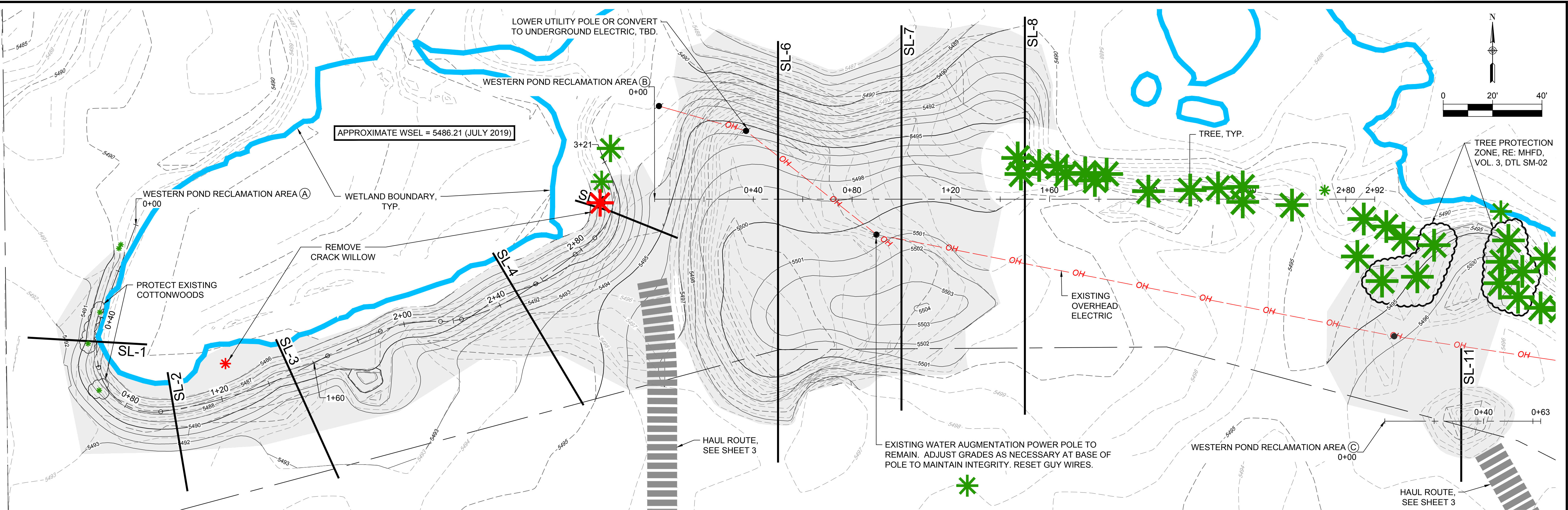
- 2.03.6.01** CITY OF AURORA PLAN REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH CITY OF AURORA DESIGN CRITERIA AND THE CITY CODE. THE CITY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND ELEVATIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE. THE CITY OF AURORA, THROUGH THE SUBMITTAL REQUIREMENTS AND PROCEDURES 2-12 10.2016 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 AND A POUR SLIP ISSUED.
- 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 SUBMITTAL REQUIREMENTS AND PROCEDURES 2-13 10.2016 COMPACTION TESTS TAKEN BY THE DEVELOPER'S GEOTECH ARE APPROVED BY PUBLIC

IMPROVEMENTS INSPECTIONS/MATERIALS LAB.

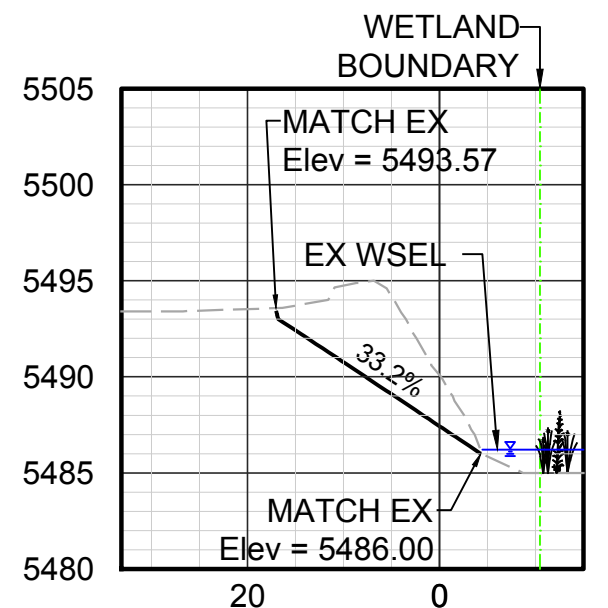
- 2.03.6.12** STANDARD CITY OF AURORA CURB RAMPS SHALL BE CONSTRUCTED AT ALL CURB RETURNS, AT ALL "T" INTERSECTIONS AND AT ALL CURBSIDE KIOSKS OR CLUSTERS, UNLESS OTHERWISE MODIFIED BY THESE PLANS.
- 2.03.6.13** ALL STATIONING IS BASED ON CENTERLINE OF ROADWAYS UNLESS OTHERWISE NOTED.
- 2.03.6.14** ALL 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.) 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 INSTALLATION COST IS FUNDED BY THE DEVELOPER/OWNER. COORDINATE THE STREETLIGHT LOCATIONS AND INSTALLATION WITH XCEL ENERGY USING THE APPROVED SITE PLANS/CIVIL PLANS THAT SHOW THE PROPOSED STREET LIGHT LOCATIONS.
- 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. SUBMITTAL REQUIREMENTS AND PROCEDURES 2-14 10.2016
- 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).
- 2.03.7** WHERE APPLICABLE LABEL ADJACENT SUBDIVISION NAMES AND THEIR CITY OF AURORA SIX DIGIT ENGINEERING DRAWING NUMBER (EDN).

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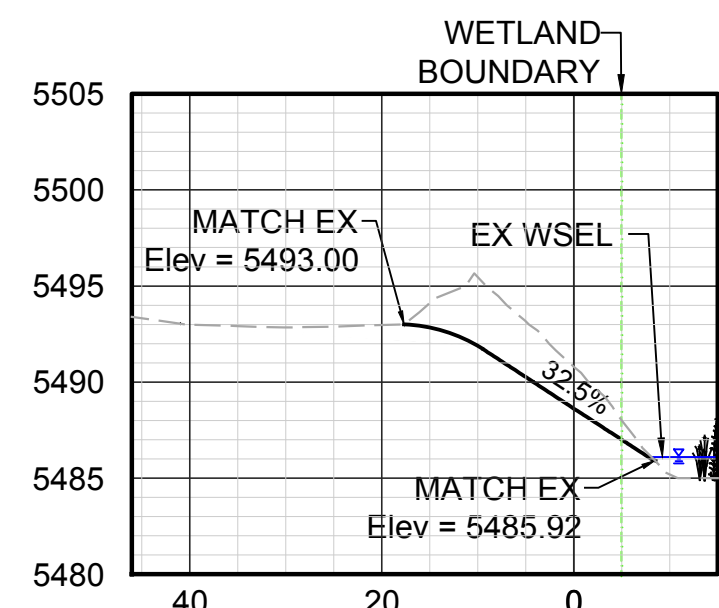
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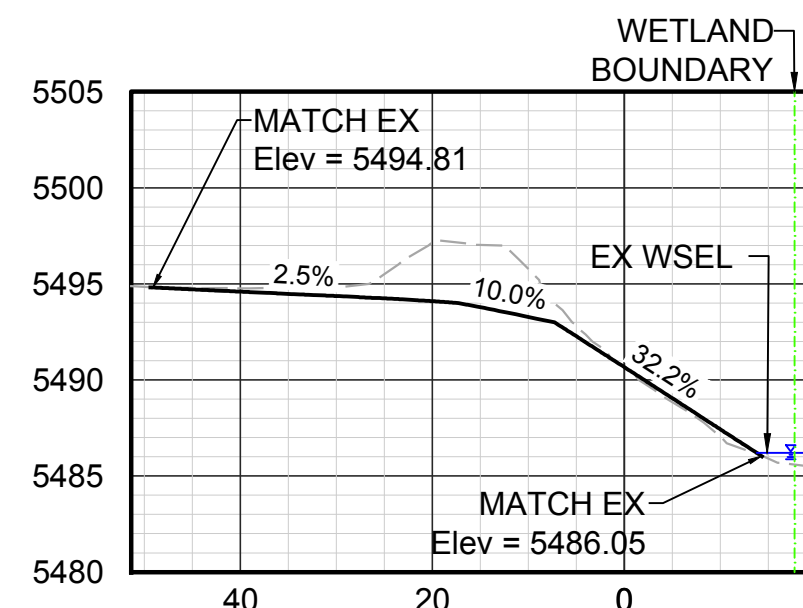
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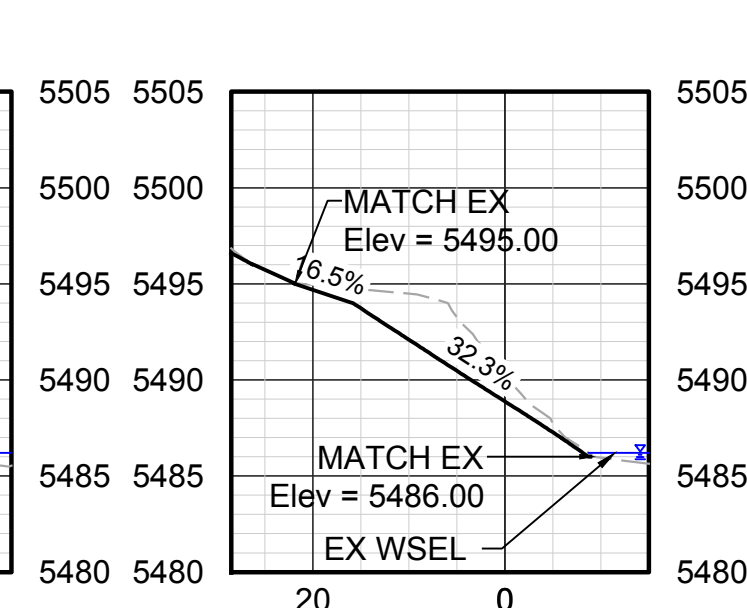
SL-2 @ STA 1+00.00



SL-3 @ STA 1+50.00



SL-4 @ STA 2+15.00



SL-5 @ STA 3+00.00

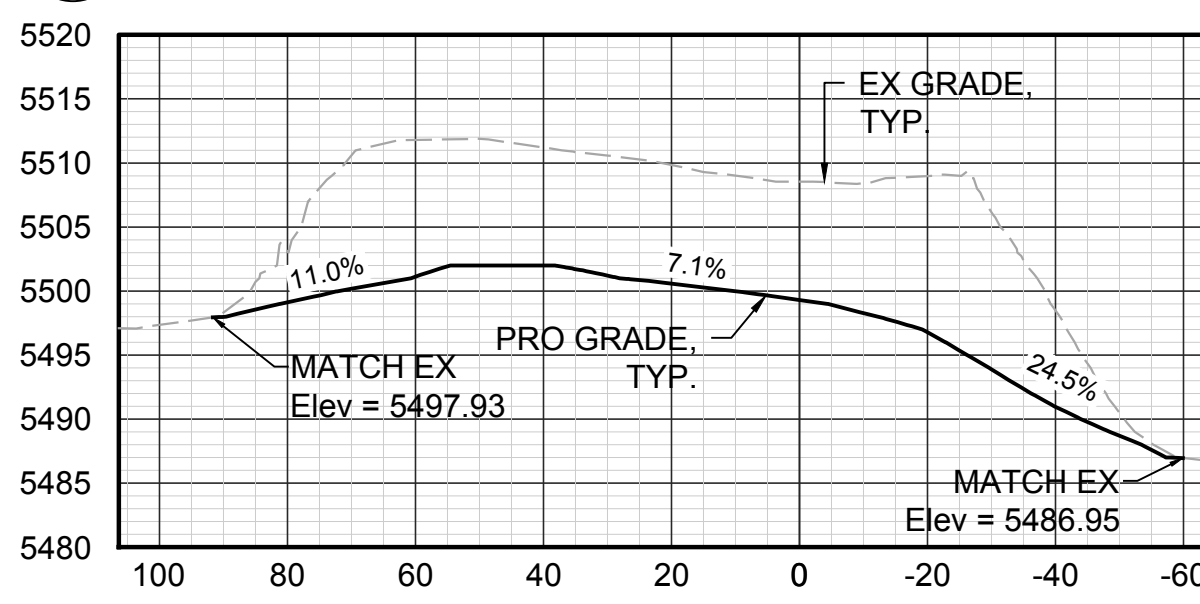
LEGEND

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

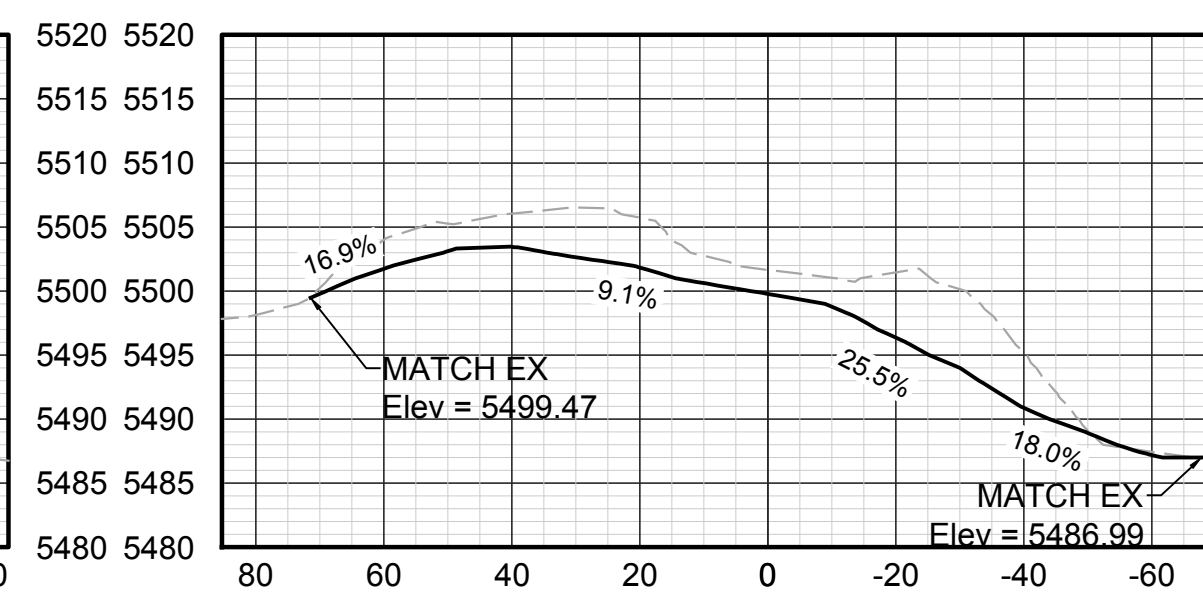
NOTES:

- 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.

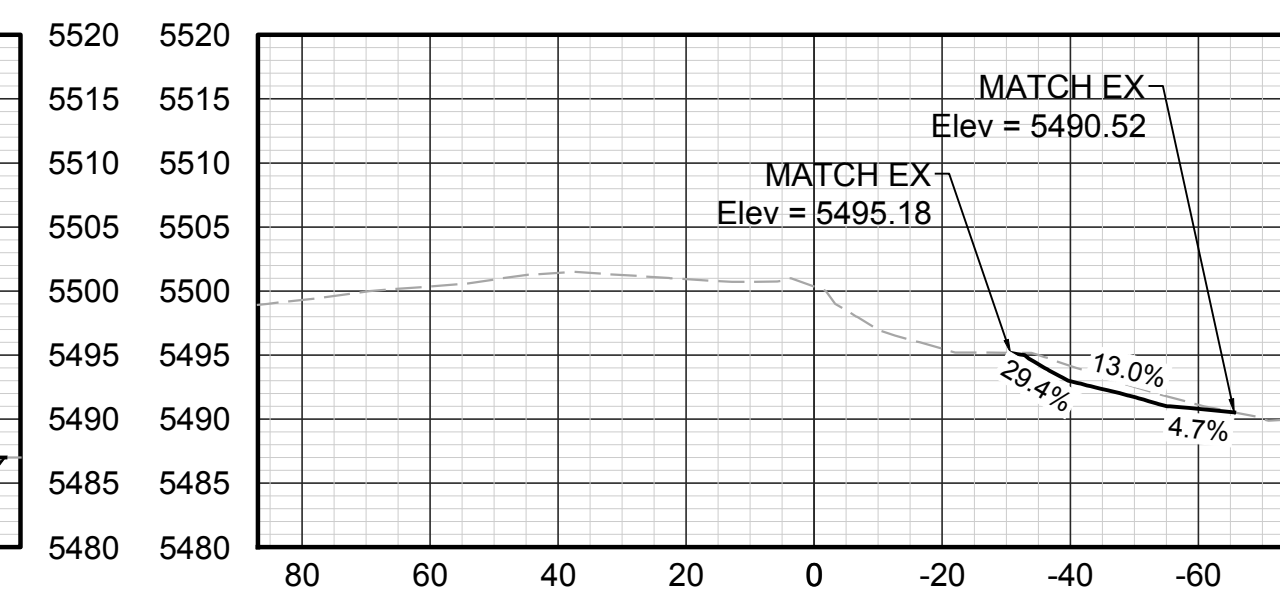
A WESTERN POND RECLAMATION AREA



SL-6 @ STA 0+50.00



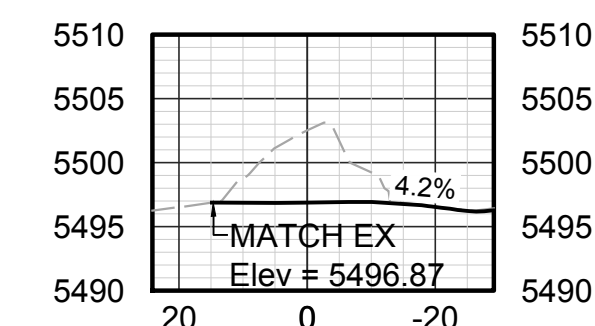
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SL-8 @ STA 1+50.00

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




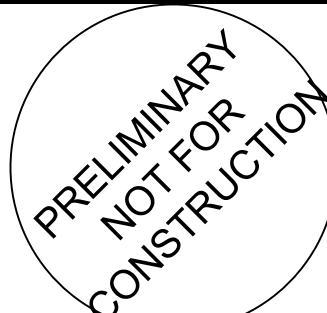
B WESTERN POND RECLAMATION AREA

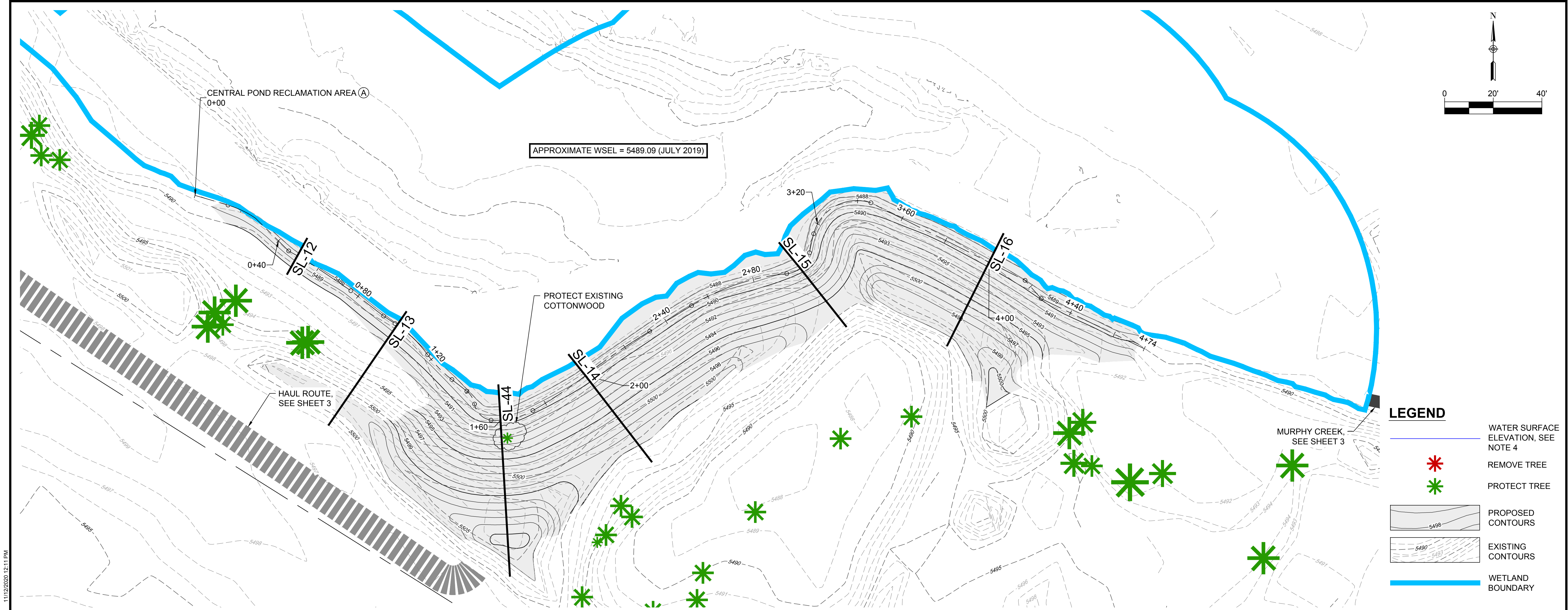


SL-11 @ STA 00+30.00

C WESTERN POND RECLAMATION AREA

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

					DRAWN BY: JIM	 Know what's below. Call before you dig.	PREPARED FOR:  Parks, Recreation & Open Space	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					WESTERN POND RECLAMATION AREAS		SHEET
No.	DATE	REVISIONS				APPR.						4 OF 19

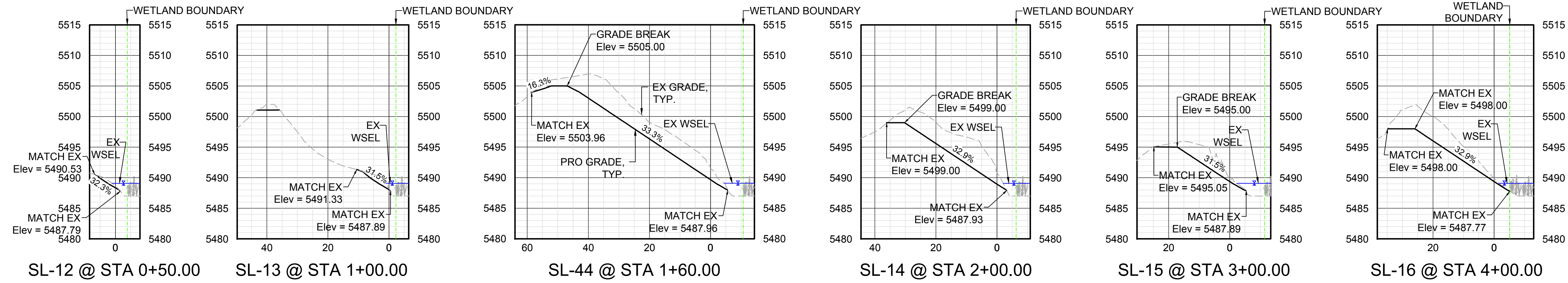


LEGEND

- 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.
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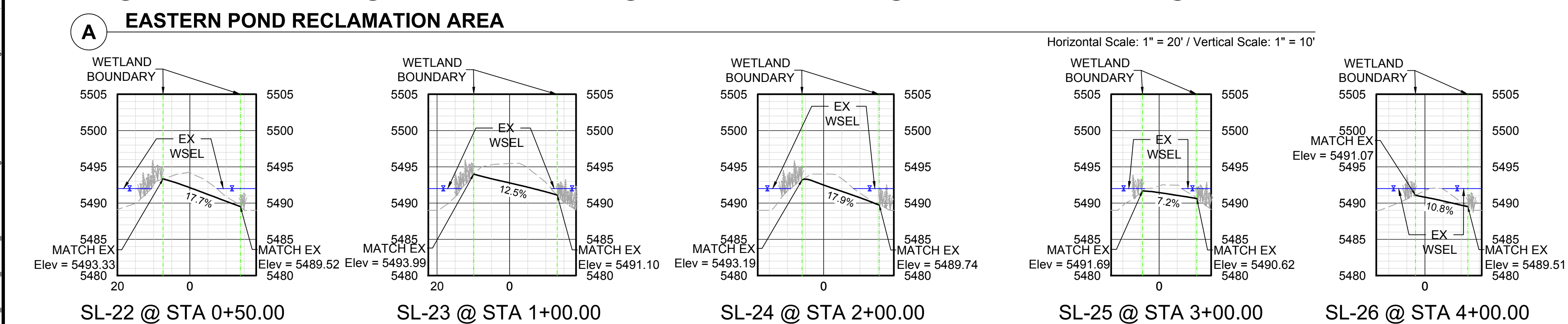
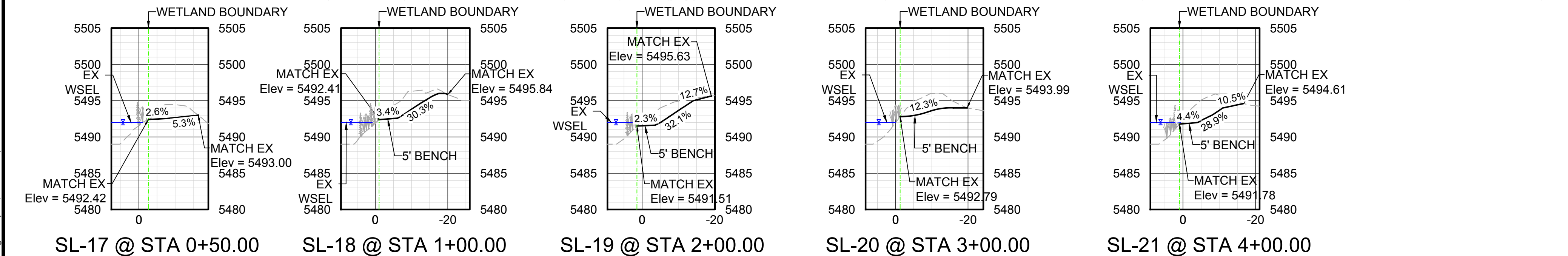
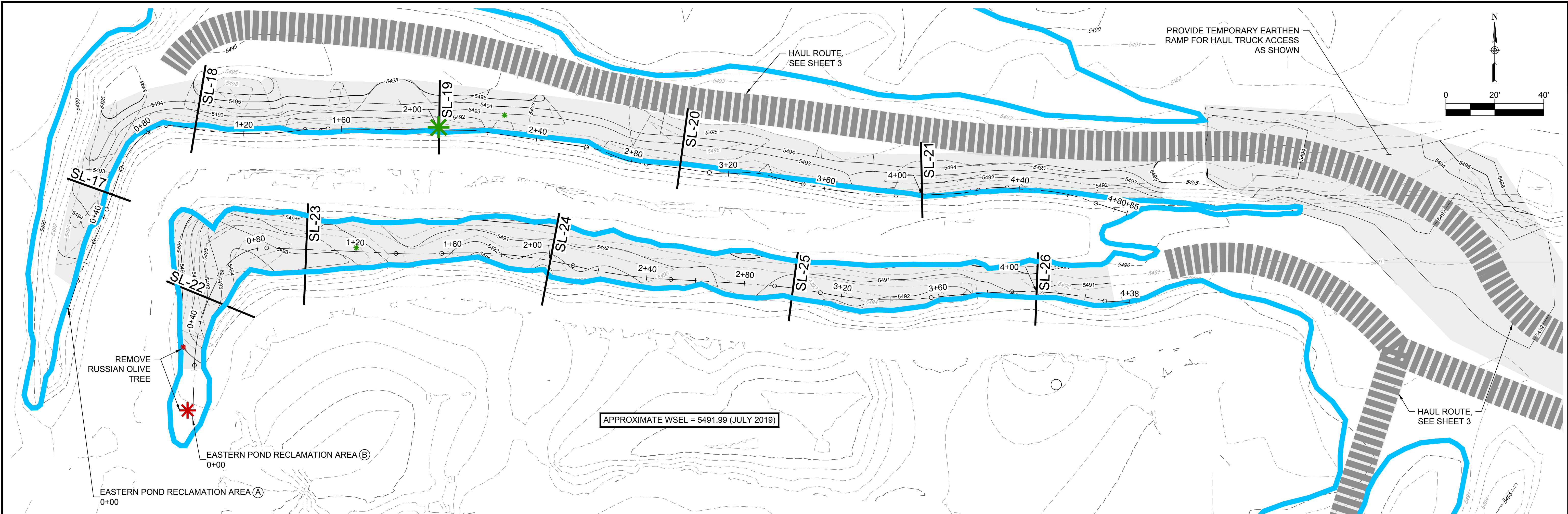


A CENTRAL POND RECLAMATION AREA

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

			DRAWN BY: JIM		 Know what's below. Call before you dig.	 Parks, Recreation & Open Space	 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						CENTRAL POND RECLAMATION AREAS		SHEET	
No.	DATE	REVISIONS	APPR.							20-020	5 OF 19	

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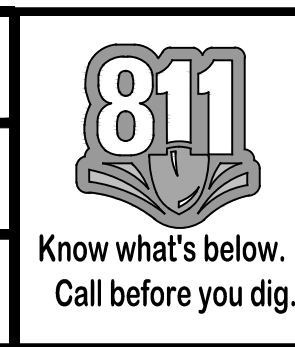
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LEGEND

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

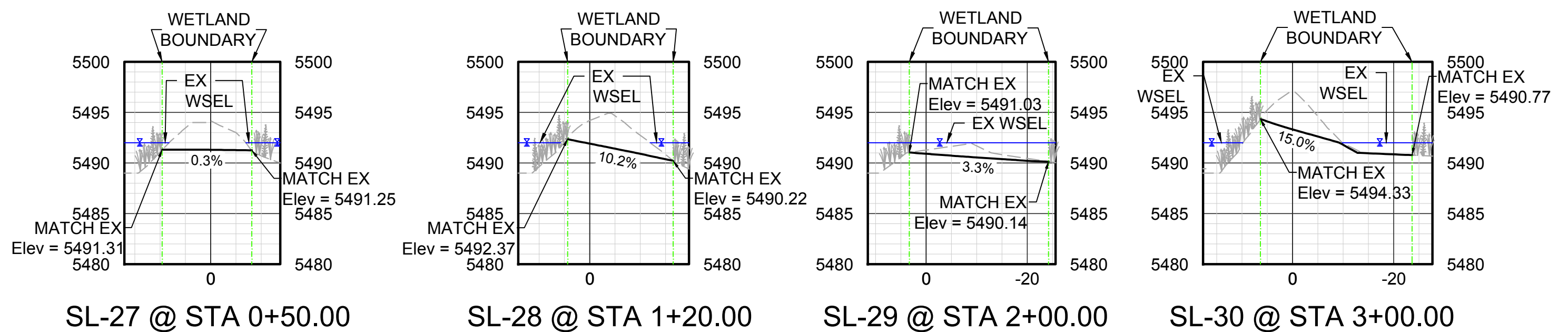
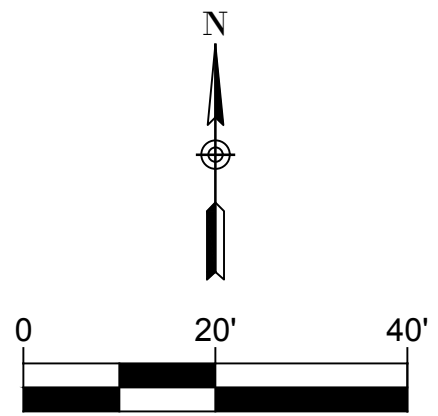
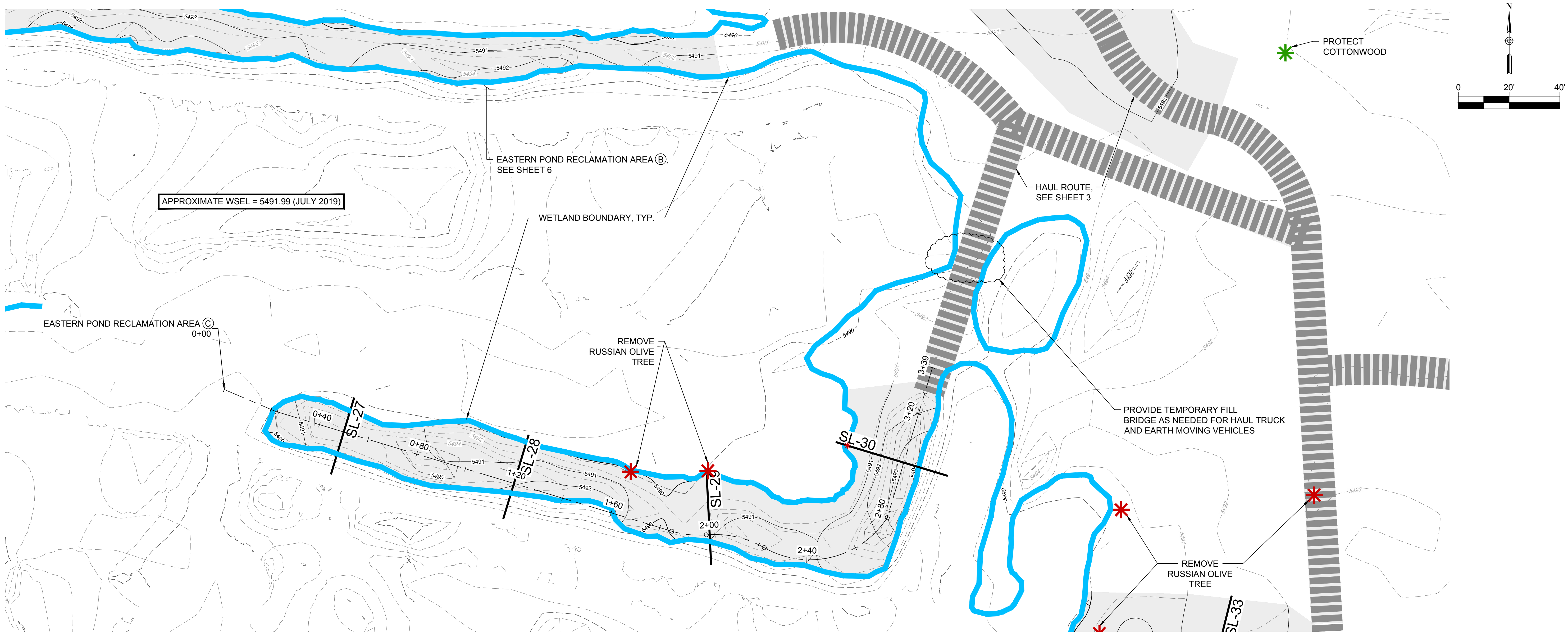
No.	DATE	REVISIONS	APPR.

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



CONFLUENCE NATURAL AREA RESTORATION		DATE
CONSTRUCTION DRAWINGS		NOV 2020
EASTERN POND RECLAMATION AREAS (1)		SHEET
20-020		6 OF 19

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C EASTERN POND RECLAMATION AREA

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

NOTES:

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

No.	DATE	REVISIONS	APPR.

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



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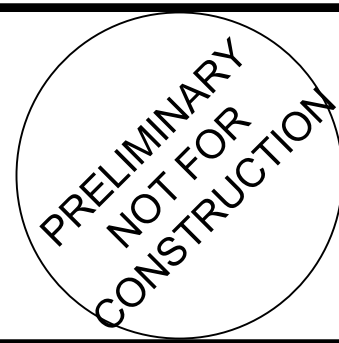


Parks, Recreation & Open Space

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)

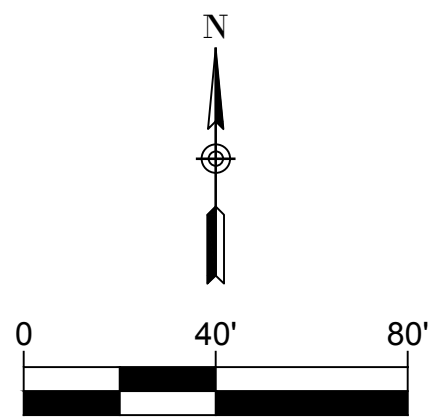
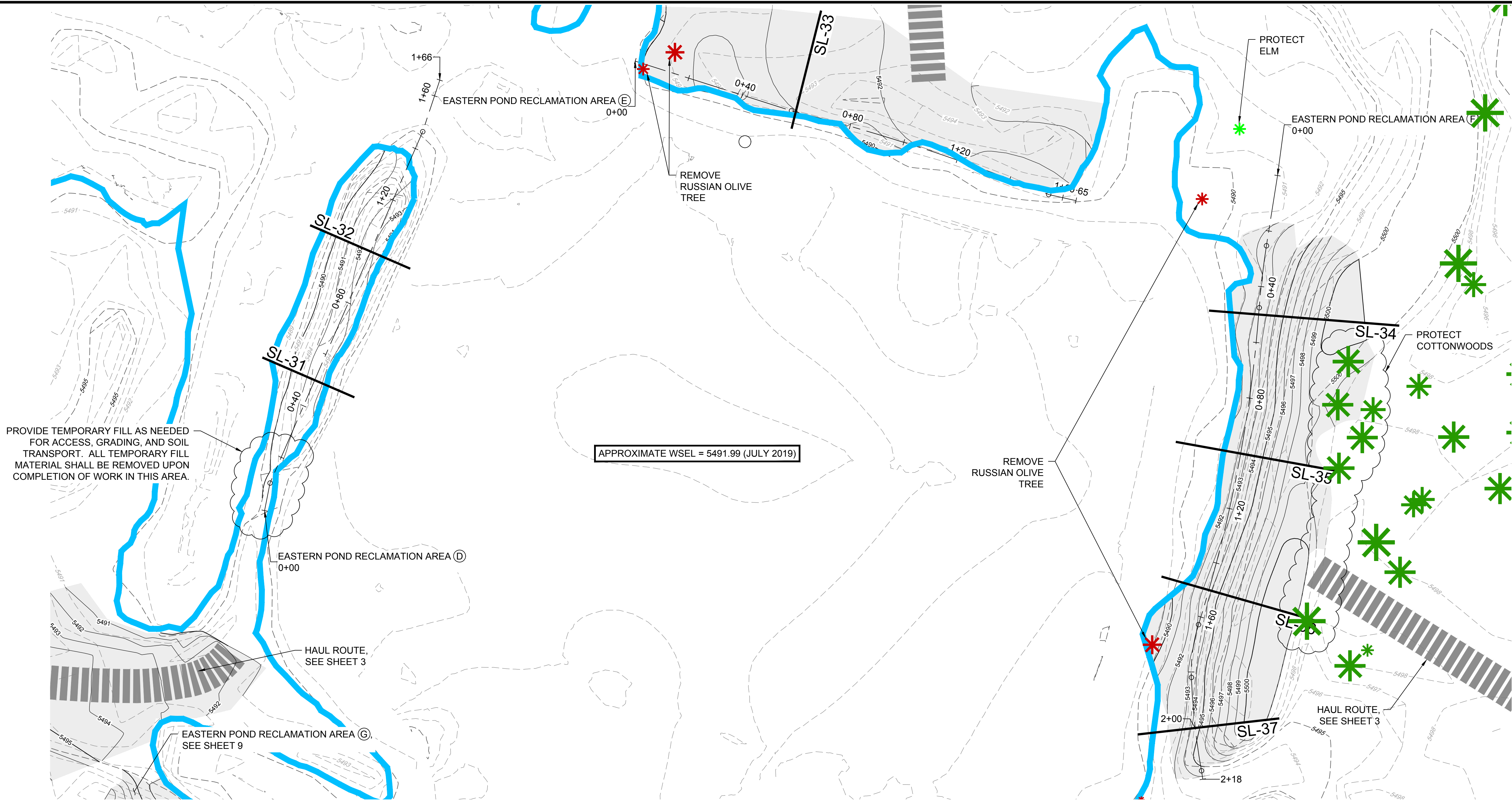
DATE

NOV 2020

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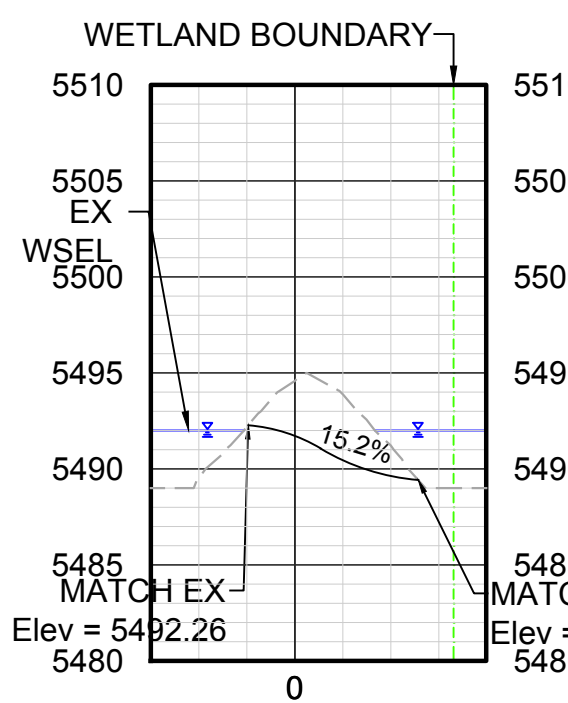


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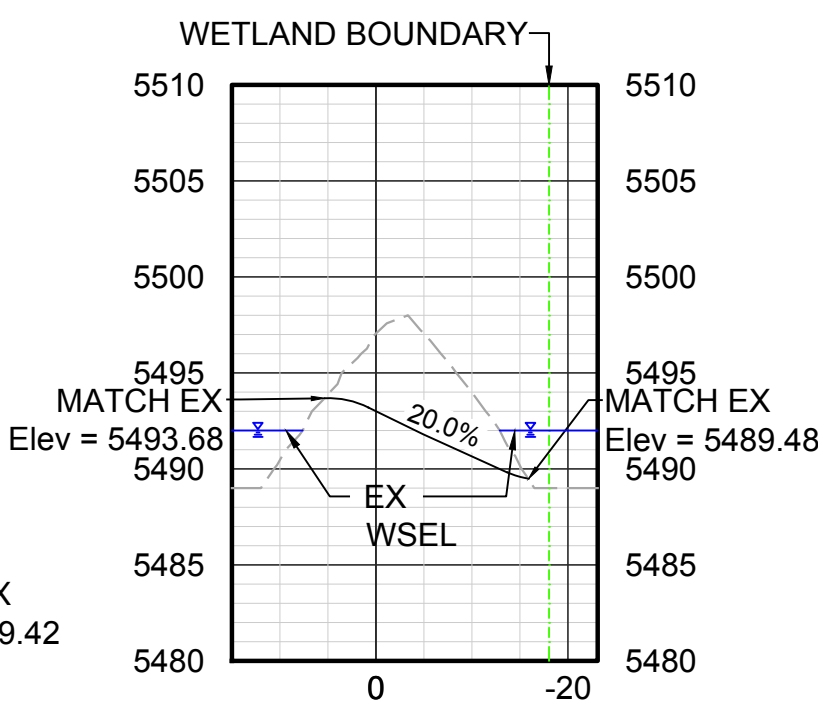
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LEGEND

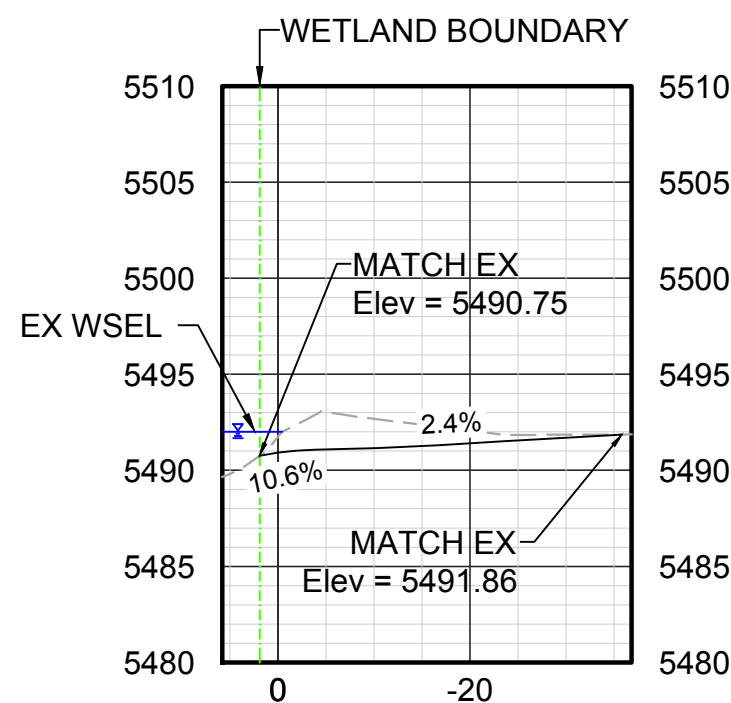
- WATER SURFACE ELEVATION, SEE NOTE 4
- REMOVE TREE
- PROTECT TREE
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- EXISTING CONTOURS
- WETLAND BOUNDARY



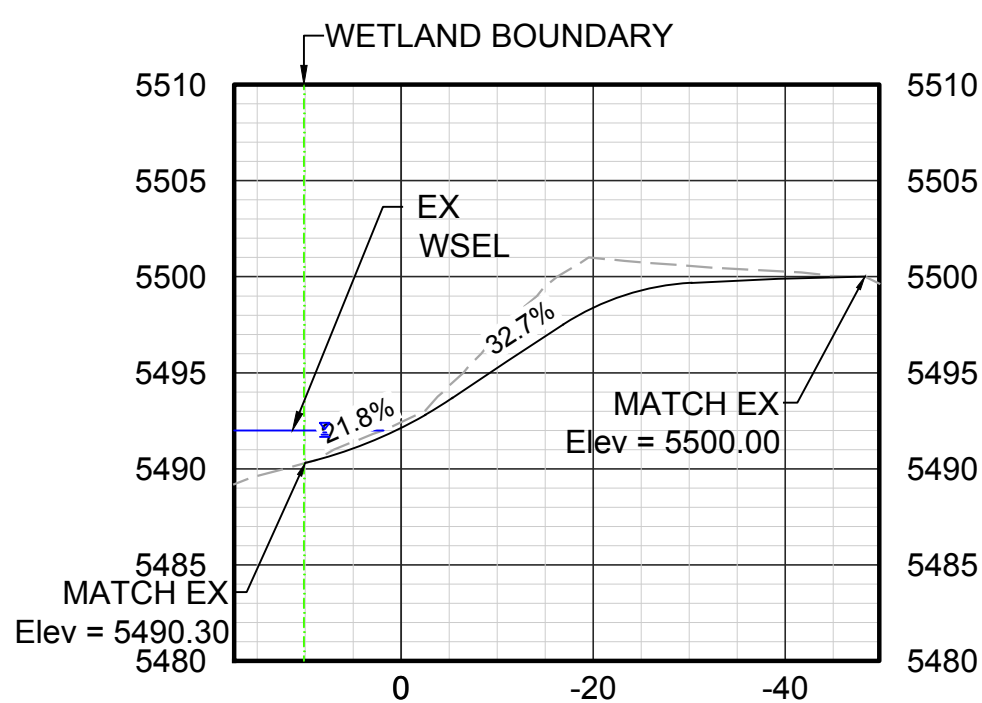
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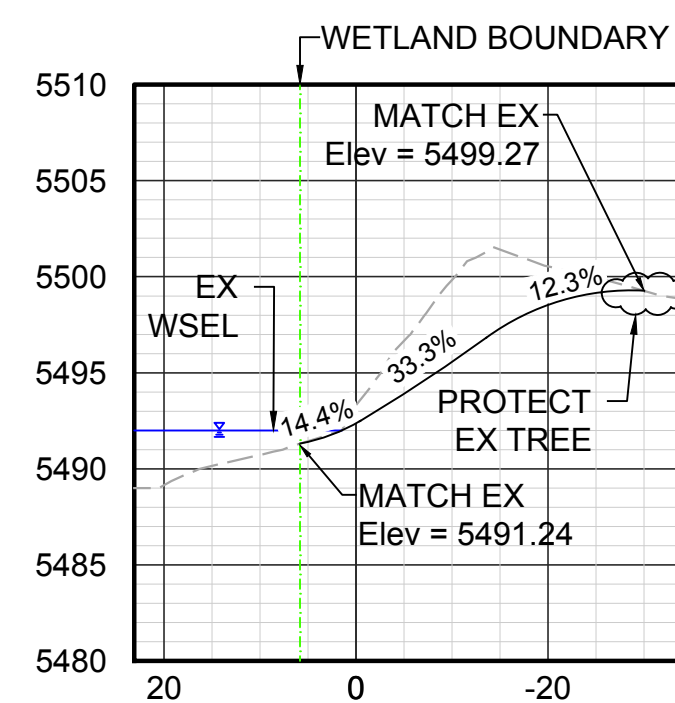
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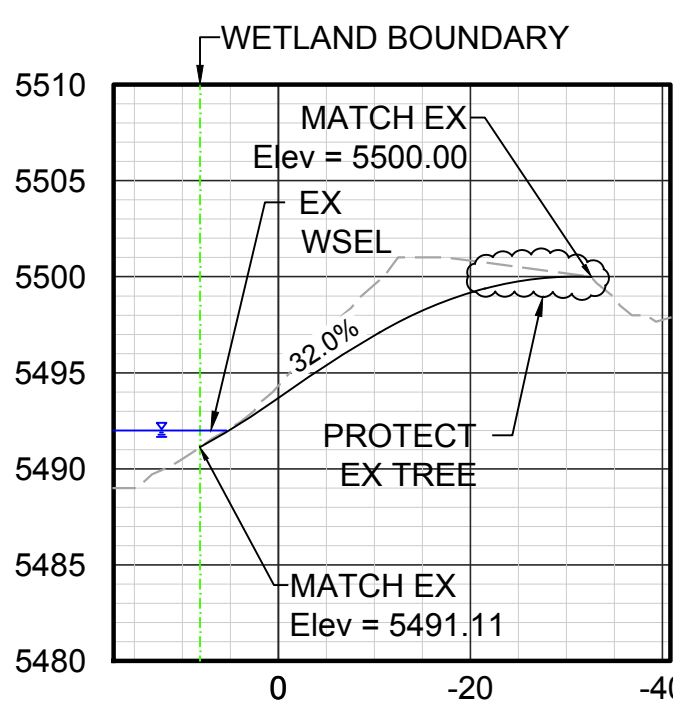
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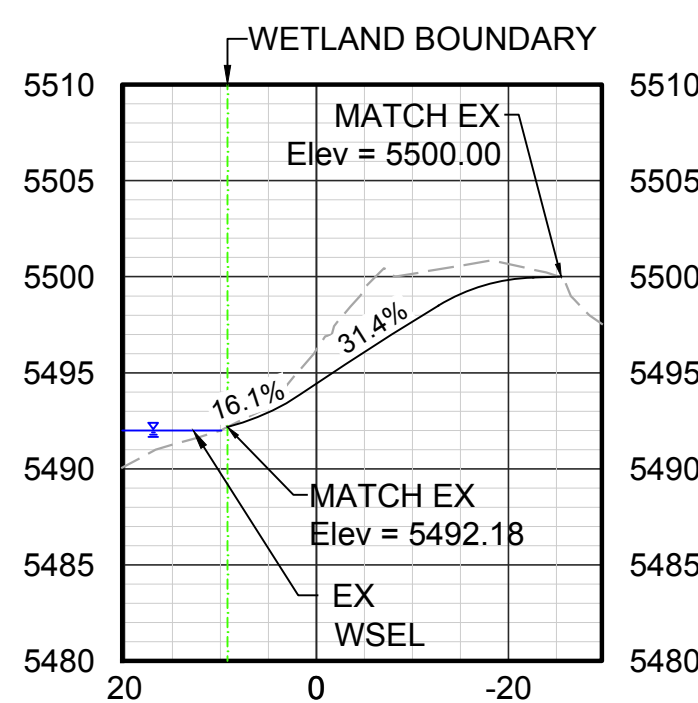
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SL-35 @ STA 1+00.00



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

No.	DATE	REVISIONS	APPR.

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



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Parks, Recreation &
Open Space

PREPARED BY:

ICON
ENGINEERING

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Centennial, CO 80112
Phone (303) 221-0802



CONFLUENCE NATURAL AREA RESTORATION

CONSTRUCTION DRAWINGS

EASTERN POND RECLAMATION AREAS (3)

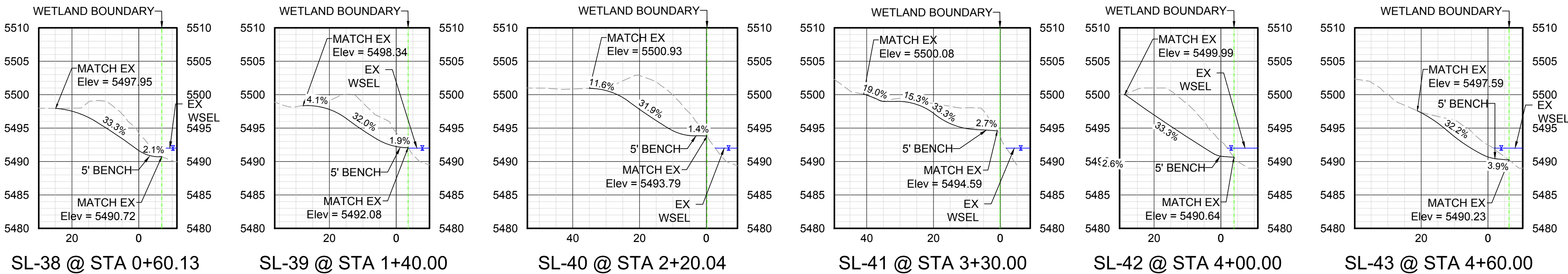
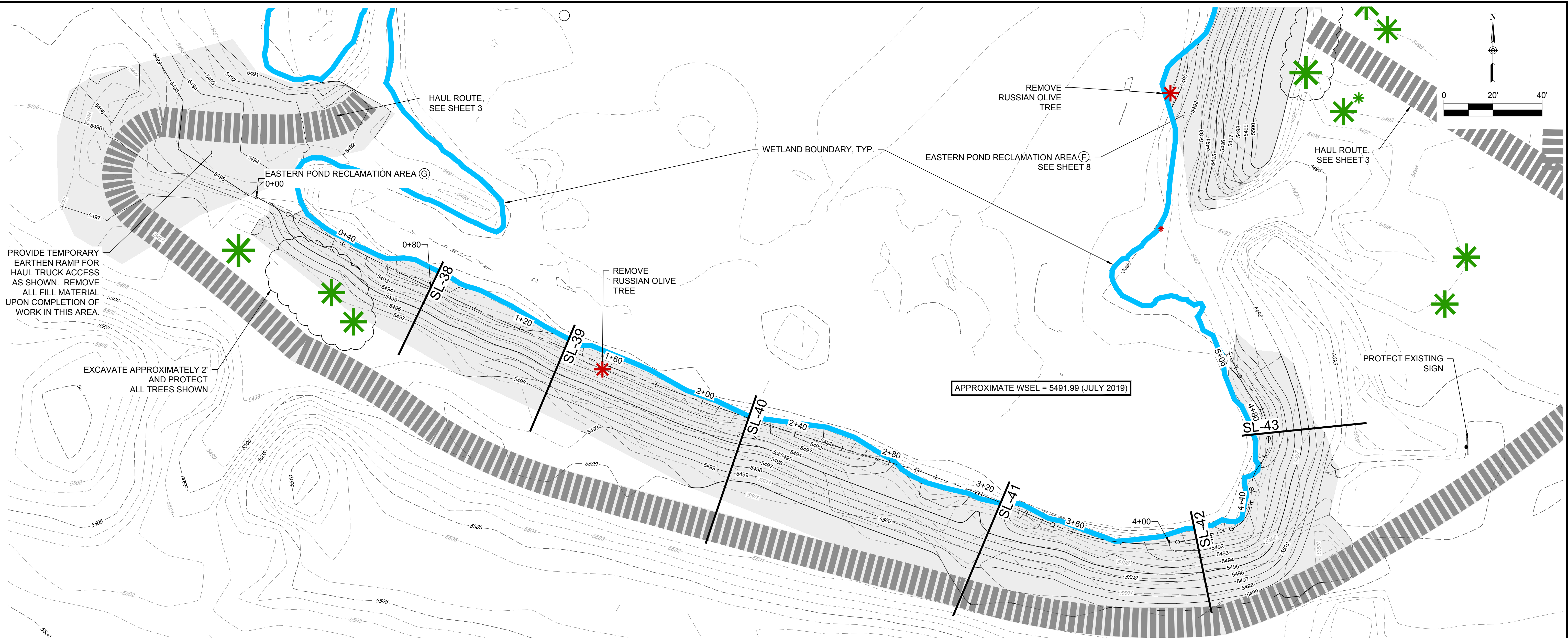
DATE

NOV 2020

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8 OF 19

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NOTES:

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LEGEND

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

G EASTERN POND RECLAMATION AREA

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

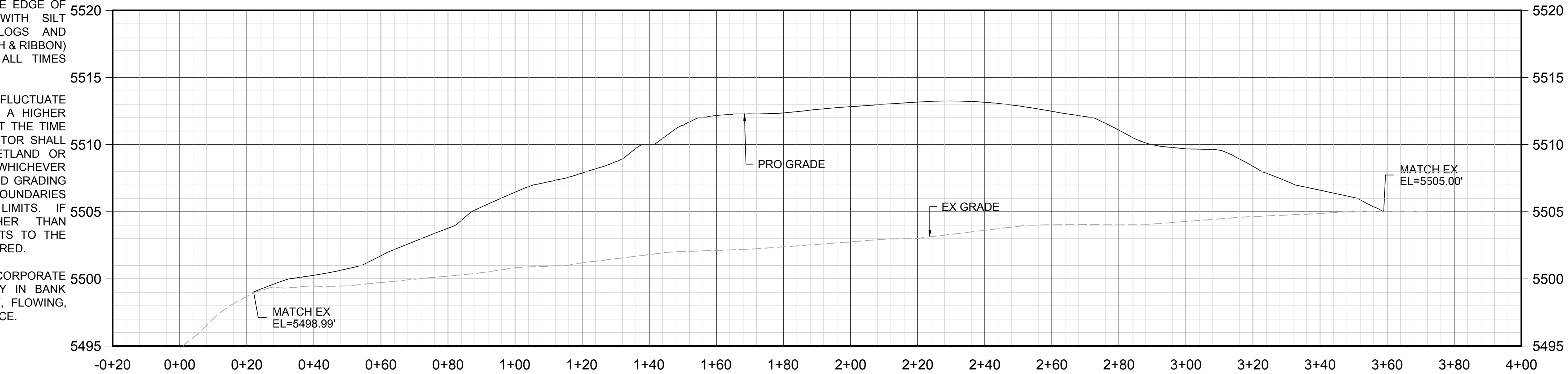
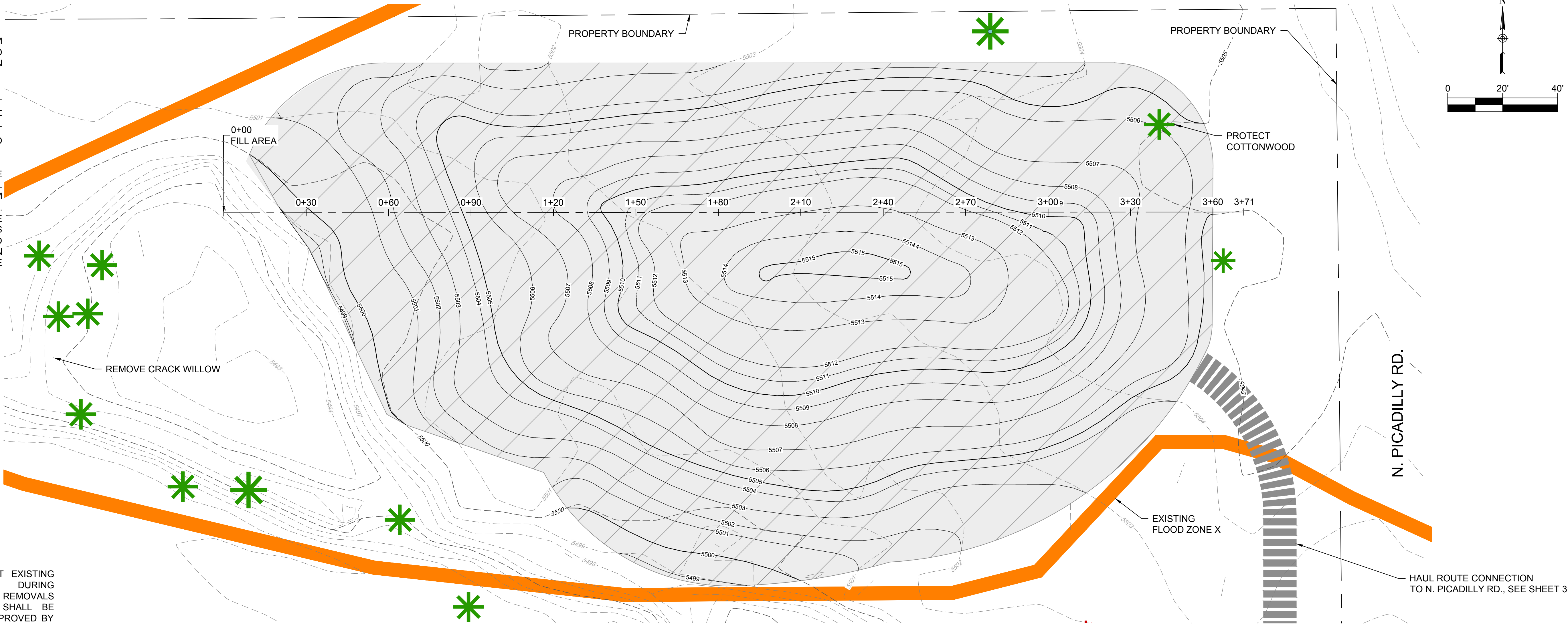
				DRAWN BY: JIM	 Know what's below. Call before you dig.	PREPARED FOR:  Parks, Recreation & Open Space	PREPARED BY:  7000 S. Yosemite Street, Suite 120 Centennial, CO 80112 Phone (303) 221-0802		CONFLUENCE NATURAL AREA RESTORATION		DATE
				DESIGNED BY: JIM					CONSTRUCTION DRAWINGS		NOV 2020
				APPROVED BY: AB					EASTERN POND RECLAMATION AREAS (4)		SHEET
No.	DATE	REVISIONS	APPR.	9 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

NOTES:

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LEGEND

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

G EASTERN POND RECLAMATION AREA

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

No.	DATE	REVISIONS	APPR.

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



PREPARED FOR:

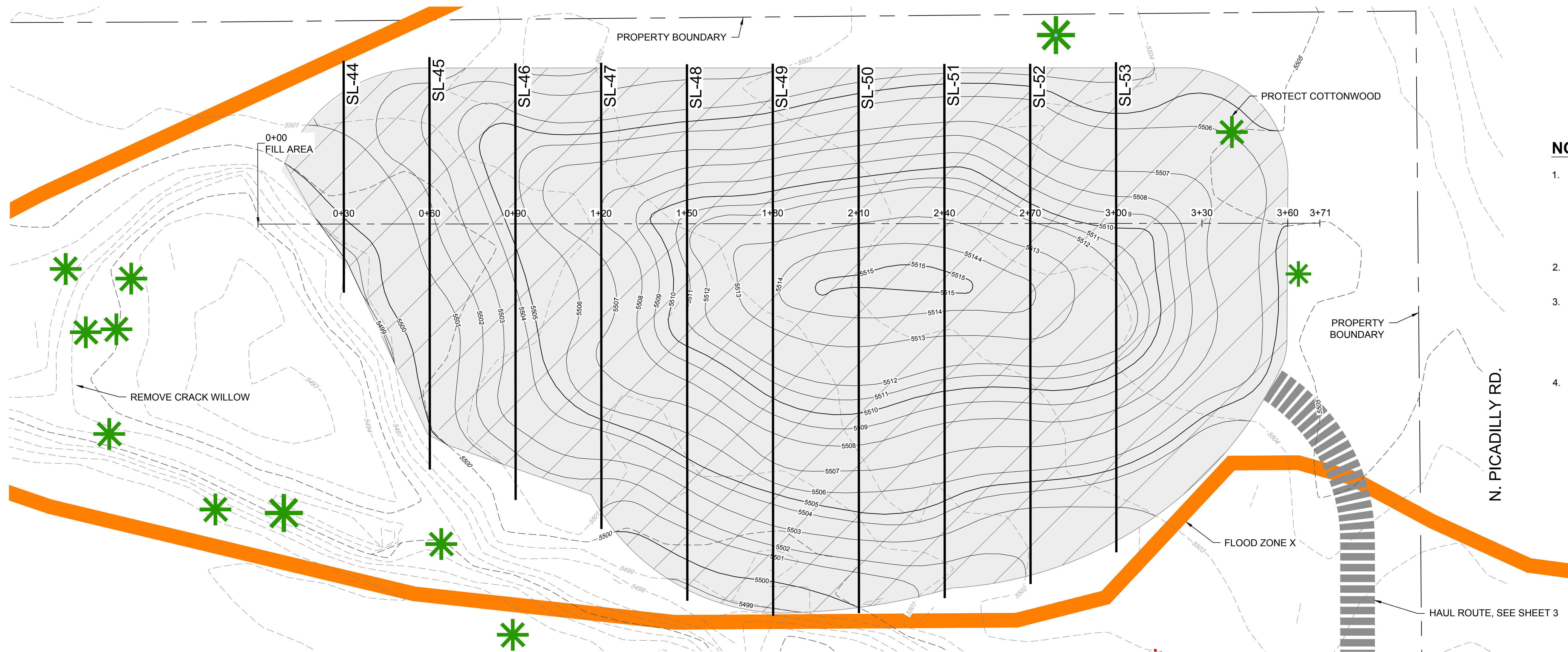


PREPARED BY:



CONFLUENCE NATURAL AREA RESTORATION	DATE
CONSTRUCTION DRAWINGS	NOV 2020
	SHEET
	10 OF 19

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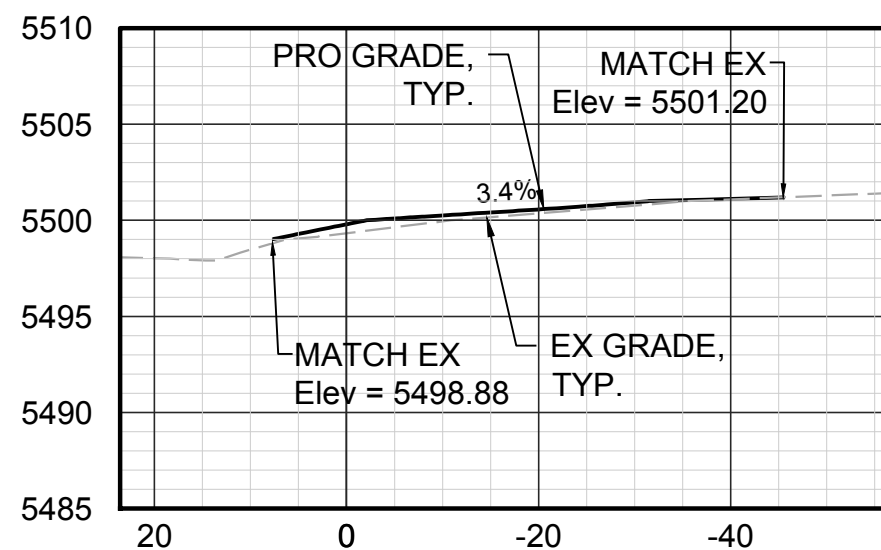


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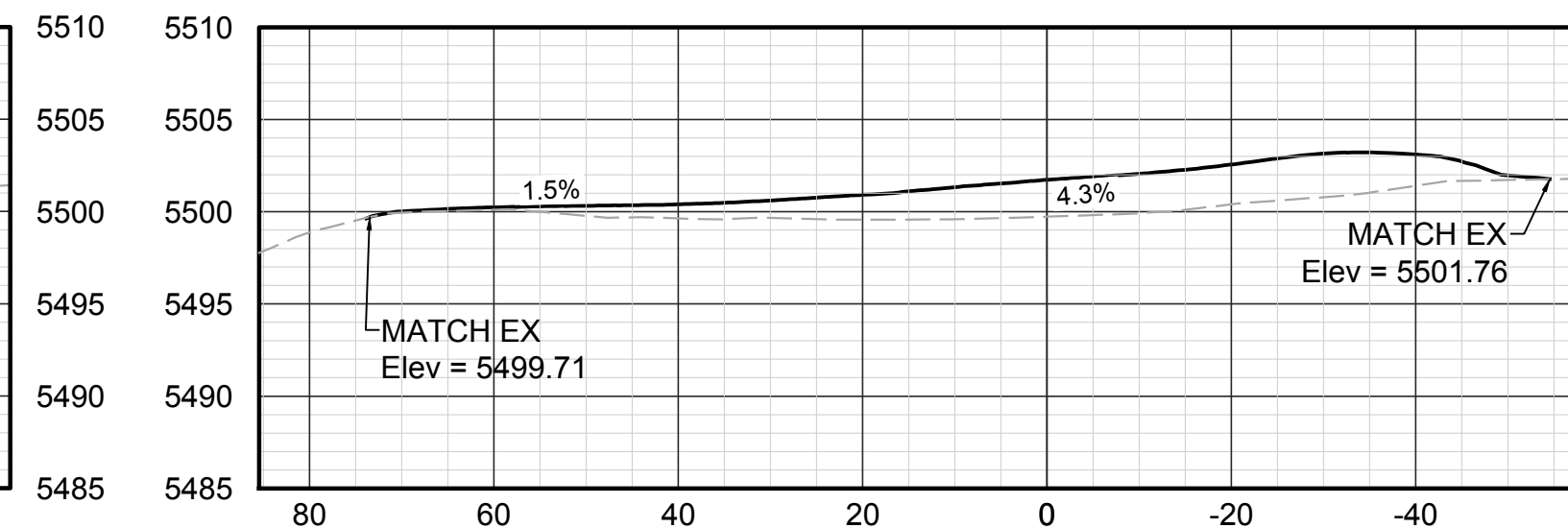
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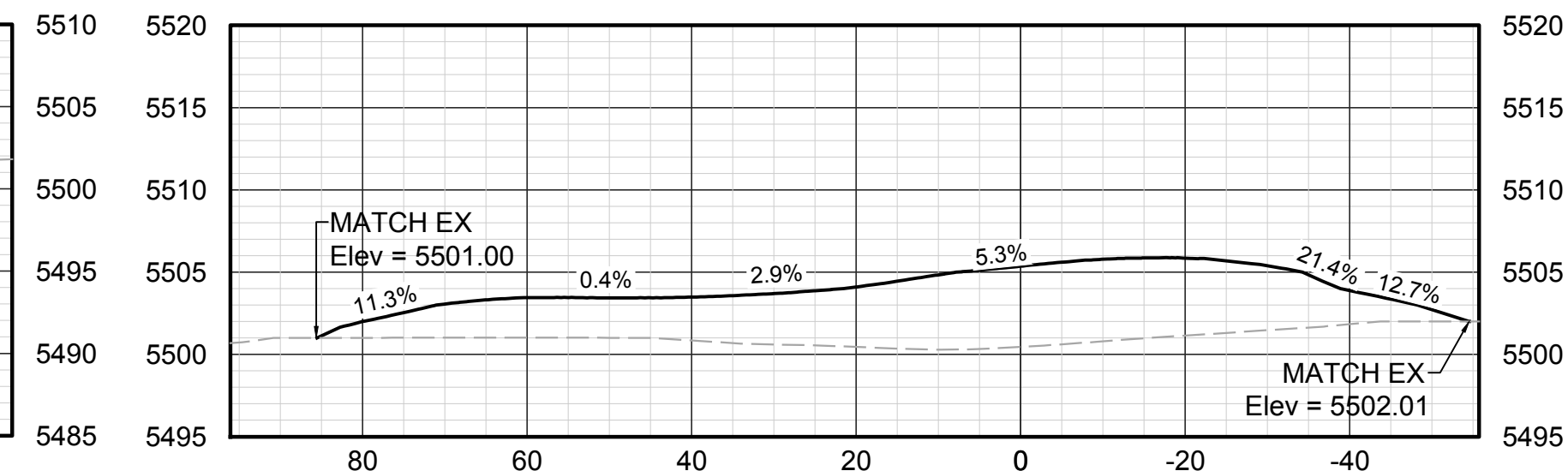
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- WETLAND BOUNDARY



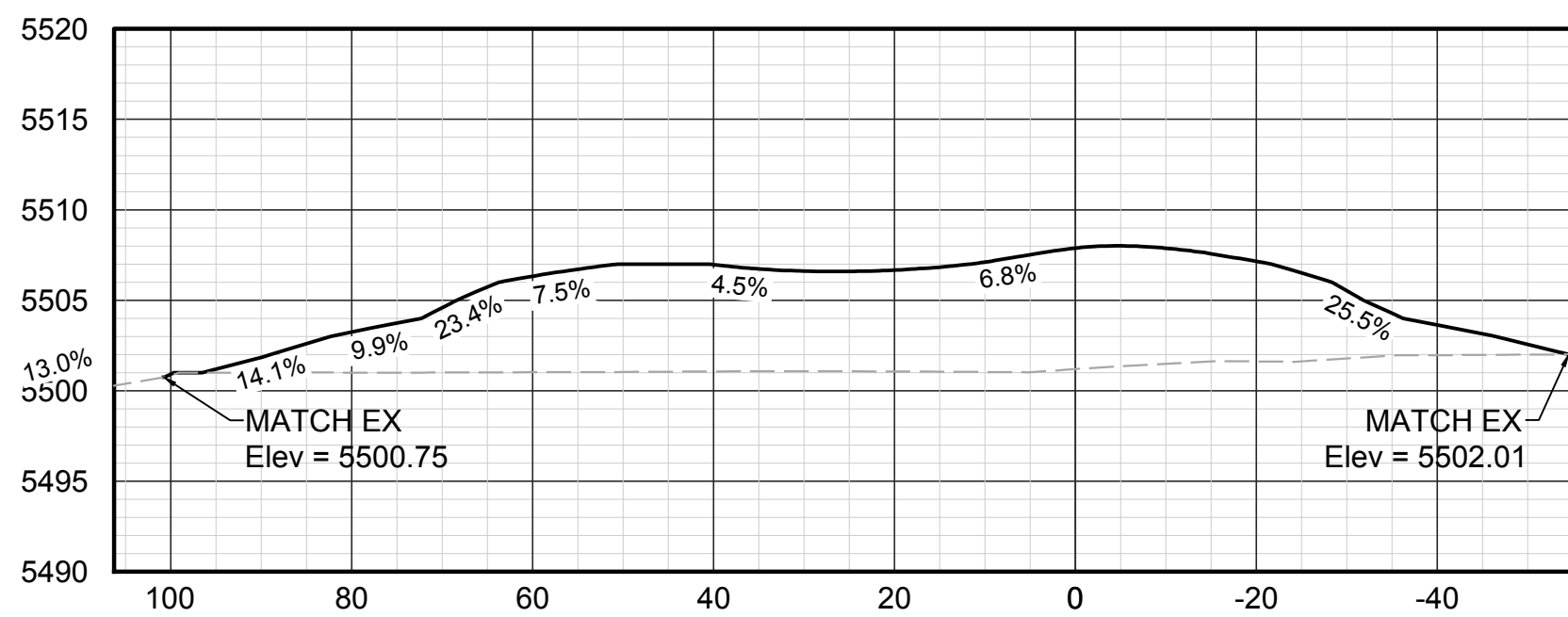
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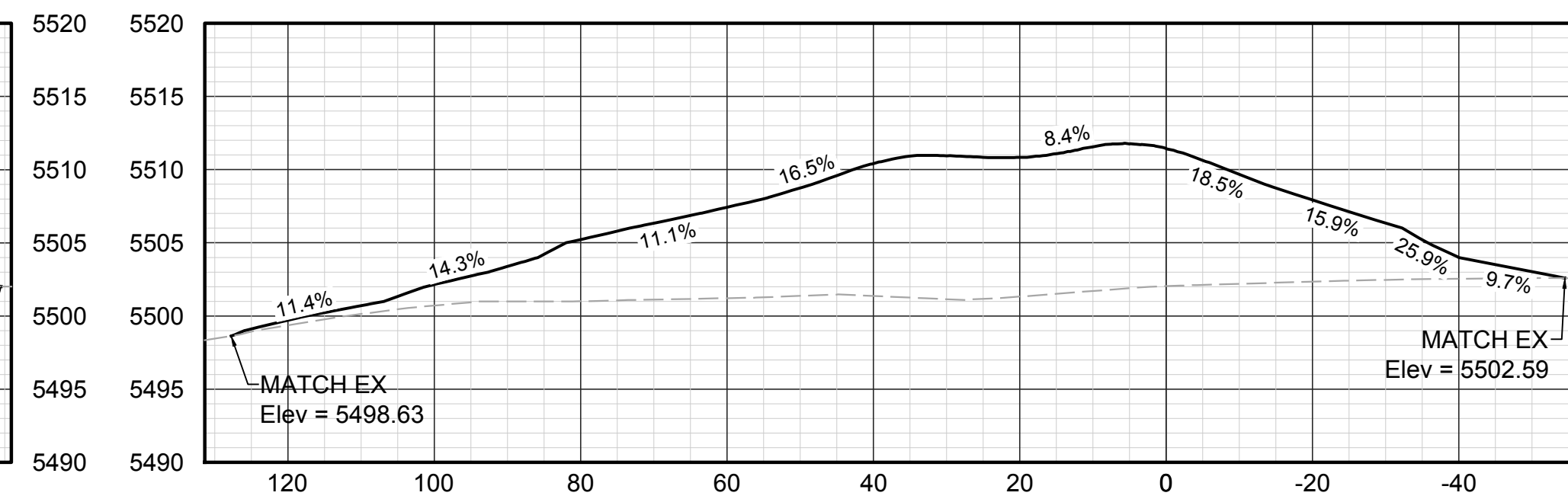
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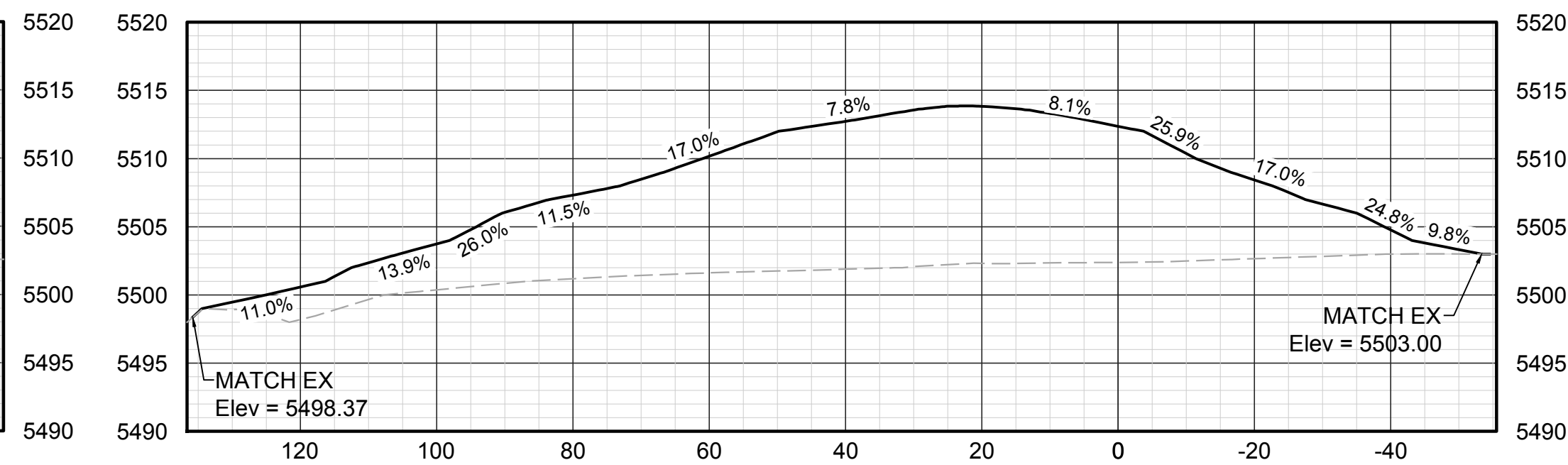
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SL-47 @ STA 1+20.00



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

PRELIMINARY
NOT FOR
CONSTRUCTION

CONFLUENCE NATURAL AREA RESTORATION
CONSTRUCTION DRAWINGS

20-020

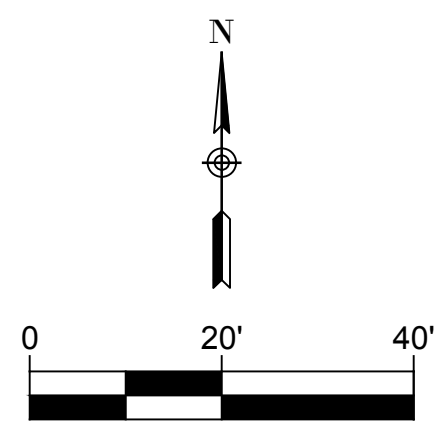
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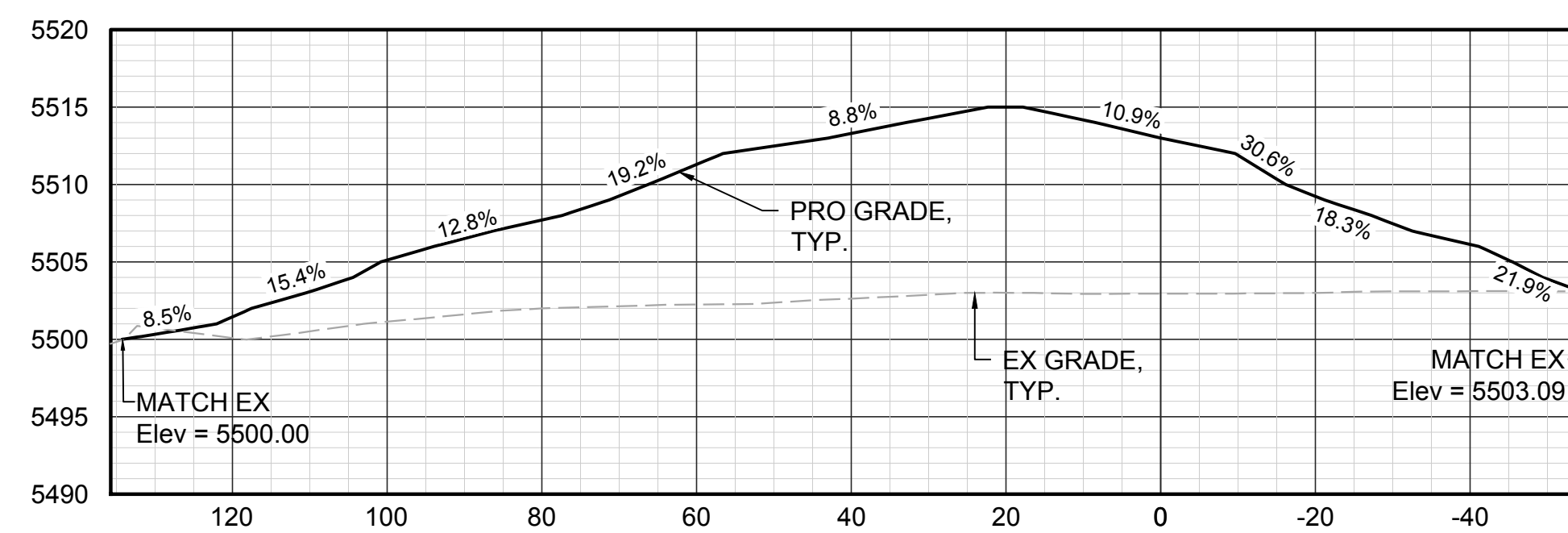
NOV 2020

SHEET

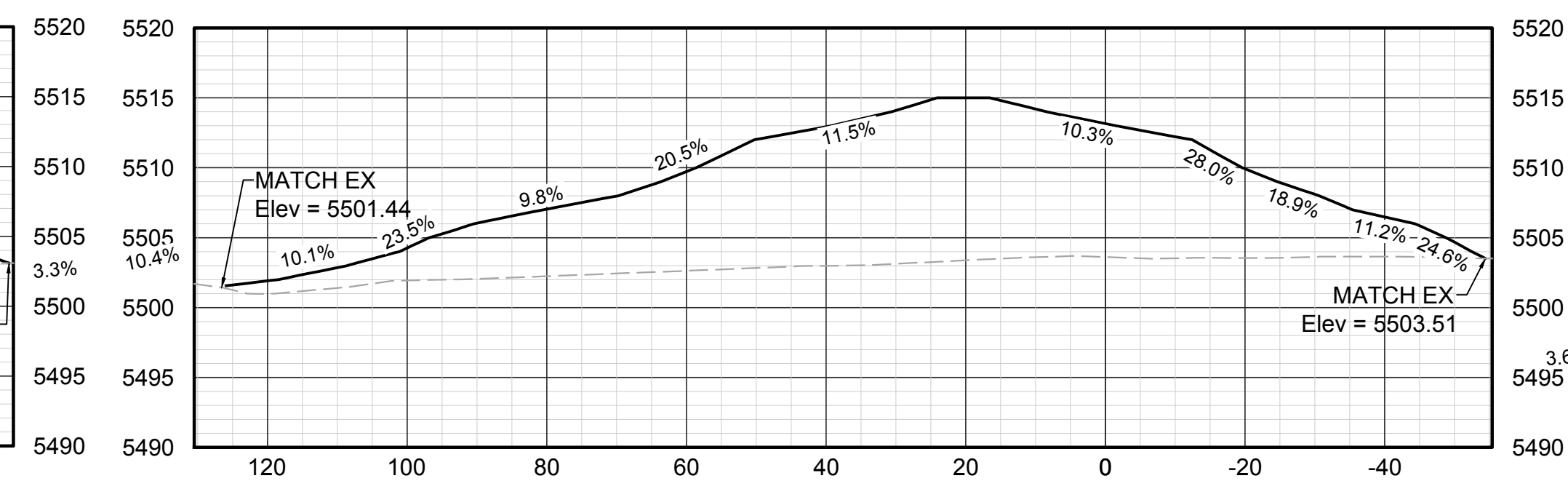
11 OF 19



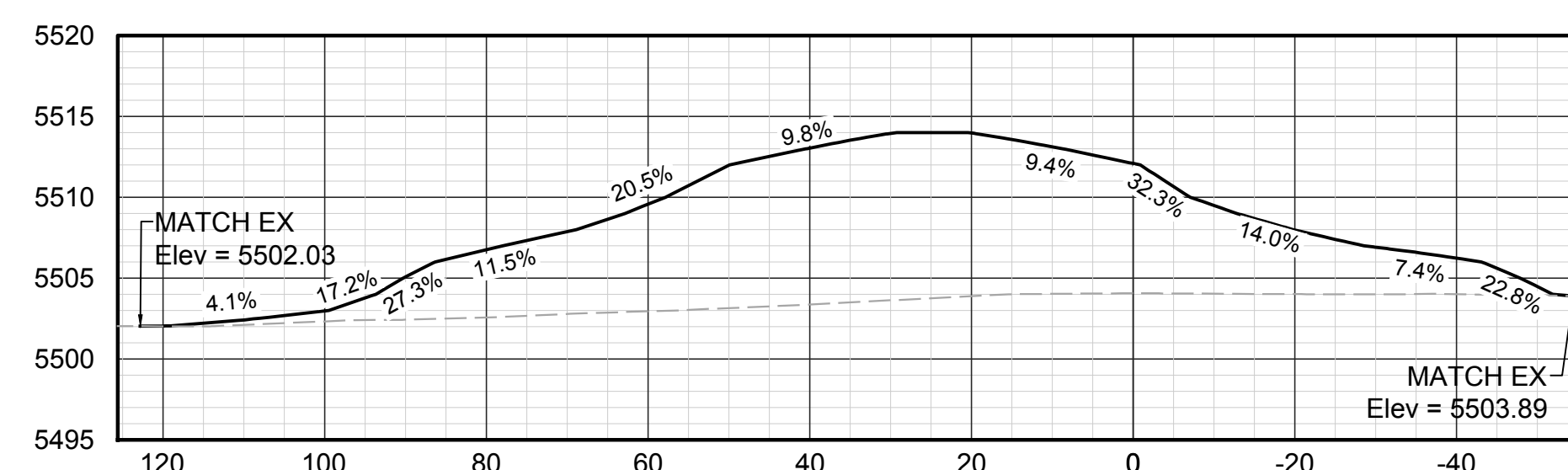
1. CONTRACTOR SHALL PROTECT EXISTING TREES AT ALL TIMES DURING CONSTRUCTION. TREE REMOVALS IDENTIFIED ON THE PLANS SHALL BE MARKED IN THE FIELD AND APPROVED BY OWNER AND ECOLOGIST PRIOR TO REMOVALS.
2. ALL PROPOSED GRADES SHALL BE 3(H):1(V) OR FLATTER.
3. CONTRACTOR SHALL DELINEATE EDGE OF EXISTING WETLAND LIMITS WITH SILT FENCE/SEDIMENT CONTROL LOGS AND CONSTRUCTION MARKERS (LATH & RIBBON) TO PROTECT WETLANDS AT ALL TIMES DURING CONSTRUCTION.
4. 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.



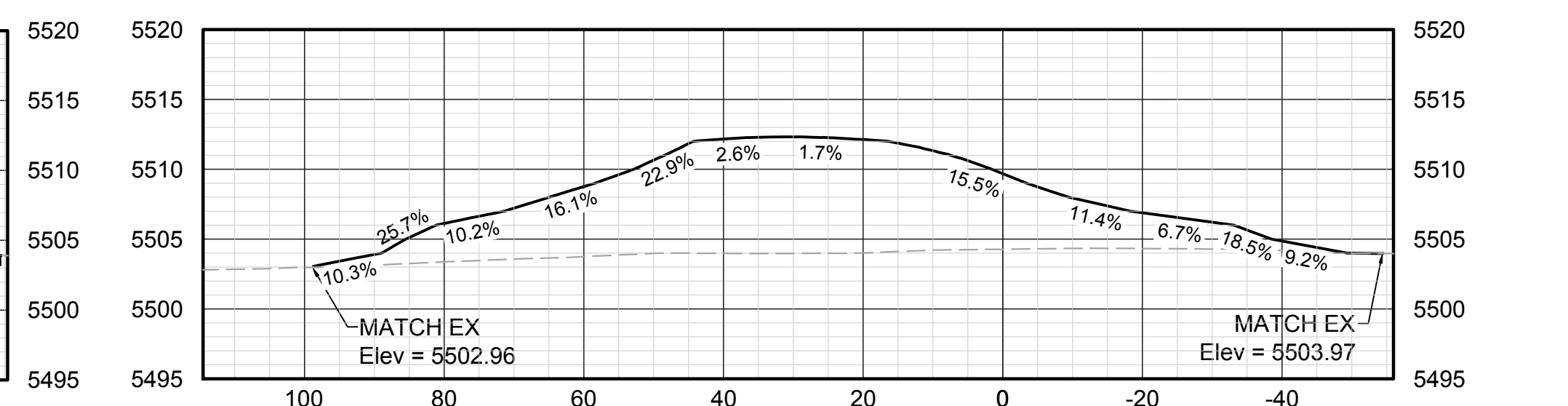
SL-50 @ STA 2+10.00



SL-51 @ STA 2+40.00



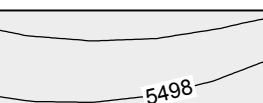
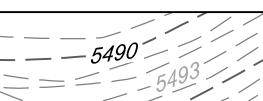



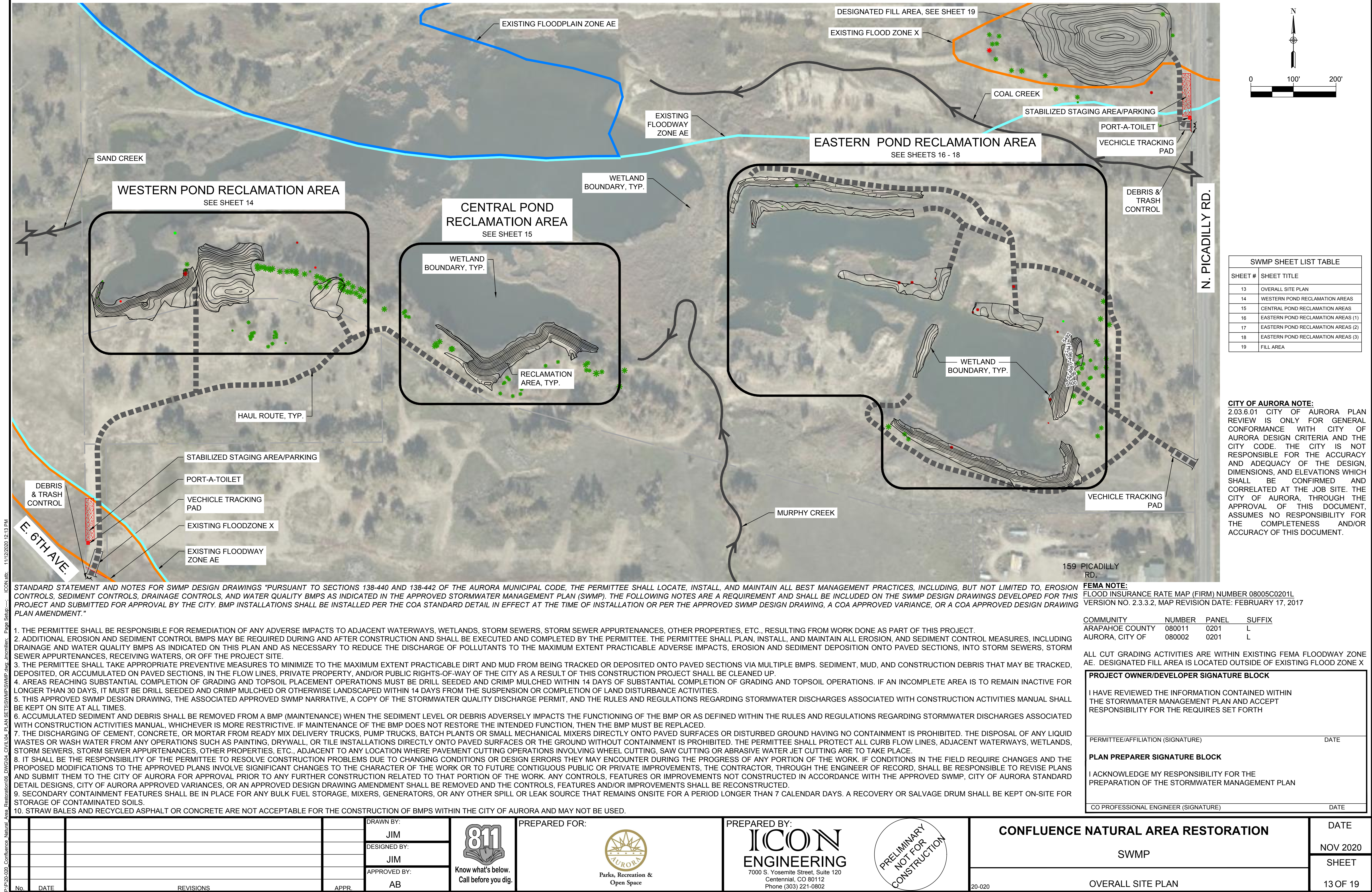
SL-52 @ STA 2+70.00



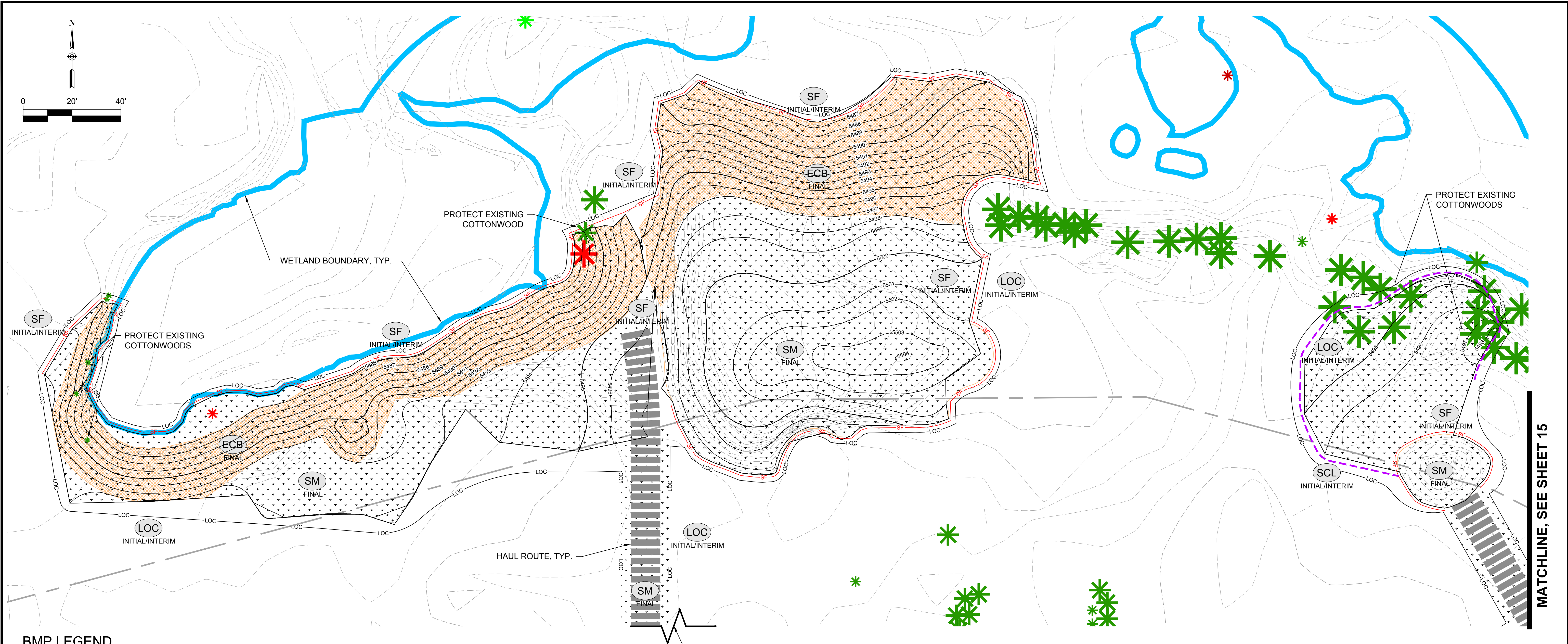
SL-53 @ STA 3+00.00

LEGEND

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

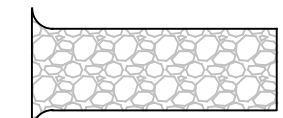


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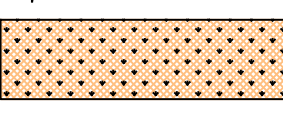
BMP LEGEND

VEHICLE TRACKING CONTROL



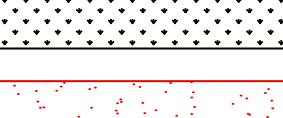
VTC
INITIAL/INTERIM

SEEDED EROSION CONTROL
BLANKET



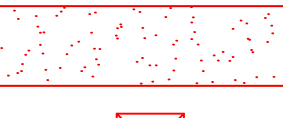
ECB
FINAL

SEEDING AND MULCHING



SM
FINAL

STABILIZED STAGING AREA



SSA
INITIAL/INTERIM

PORT A TOILET



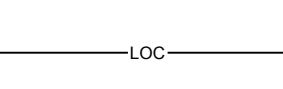
PT
INITIAL/INTERIM

DEBRIS & TRASH CONTROL



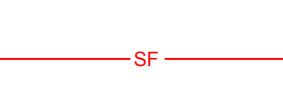
DTC
INITIAL/INTERIM

LIMITS OF CONSTRUCTION



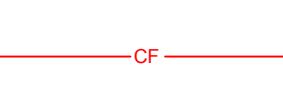
LOC
INITIAL/INTERIM

SILT FENCE



SF
INITIAL/INTERIM

CONSTRUCTION FENCE



CF
INITIAL/INTERIM

SEDIMENT CONTROL LOG



SCL
INITIAL/INTERIM

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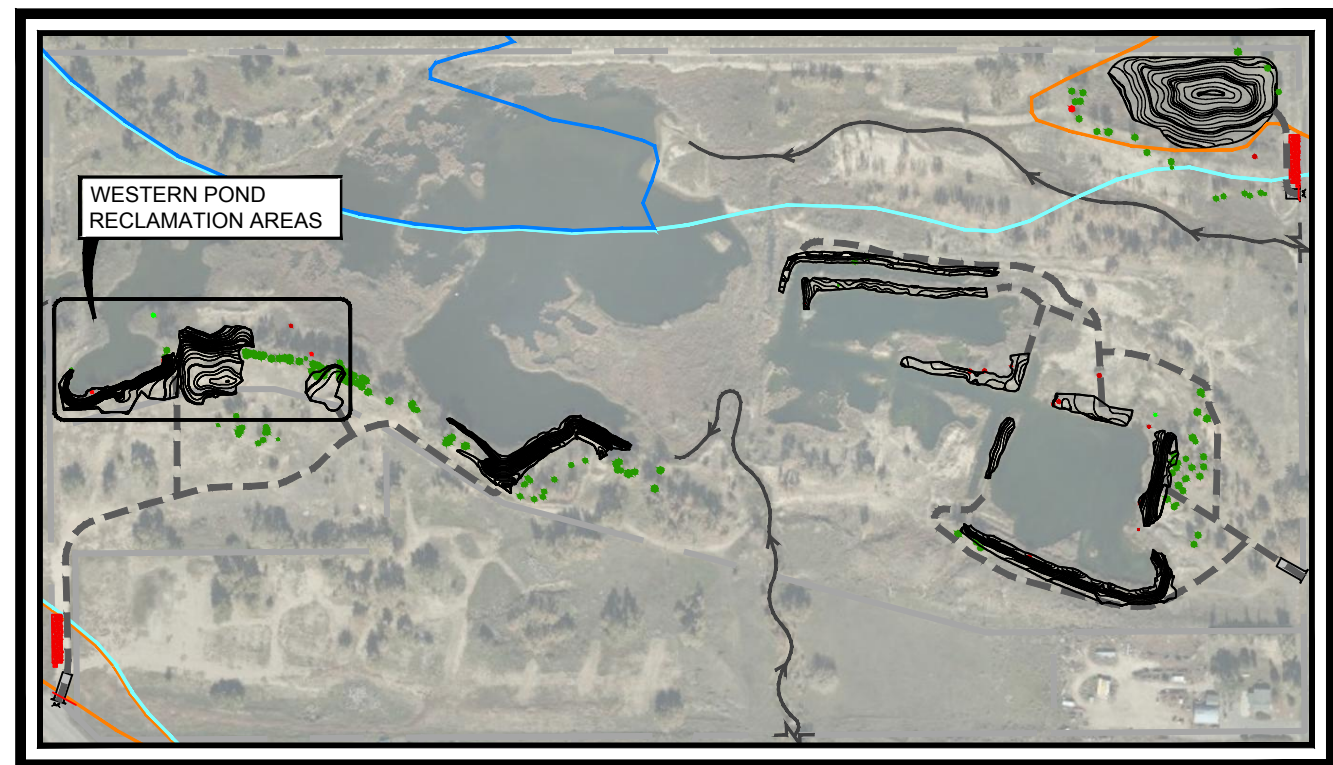
FEMA NOTE:

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

ALL CUT GRADING ACTIVITIES ARE WITHIN EXISTING FEMA FLOODWAY ZONE AE. DESIGNATED FILL AREA IS LOCATED OUTSIDE OF EXISTING FLOOD ZONE X

SEE SHEET 13 FOR CONTINUATION OF HAUL ROUTE & BMPs AT CONSTRUCTION ENTRANCE OFF E. 6TH AVE.



KEY MAP
SCALE: 1" = 400'

No.	DATE	REVISIONS	APPR.

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

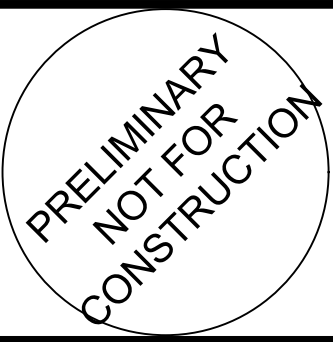
811
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ENGINEERING
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Centennial, CO 80112
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CONFLUENCE NATURAL AREA RESTORATION

SWMP

WESTERN POND RECLAMATION AREAS

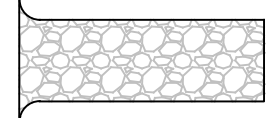
DATE	NOV 2020
SHEET	14 OF 19

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MATCHLINE, SEE SHEET 14

BMP LEGEND

VEHICLE TRACKING CONTROL



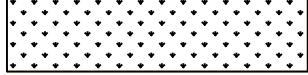
VTC
INITIAL/INTERIM

SEEDED EROSION CONTROL
BLANKET



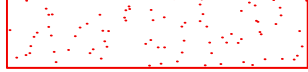
ECB
FINAL

SEEDING AND MULCHING



SM
FINAL

STABILIZED STAGING AREA



SSA
INITIAL/INTERIM

PORT A TOILET



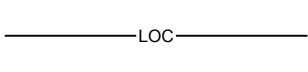
PT
INITIAL/INTERIM

DEBRIS & TRASH CONTROL



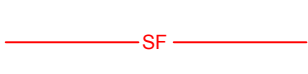
DTC
INITIAL/INTERIM

LIMITS OF CONSTRUCTION



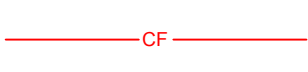
LOC
INITIAL/INTERIM

SILT FENCE



SF
INITIAL/INTERIM

CONSTRUCTION FENCE



CF
INITIAL/INTERIM

SEDIMENT CONTROL LOG



SCL
INITIAL/INTERIM

CITY OF AURORA NOTE:

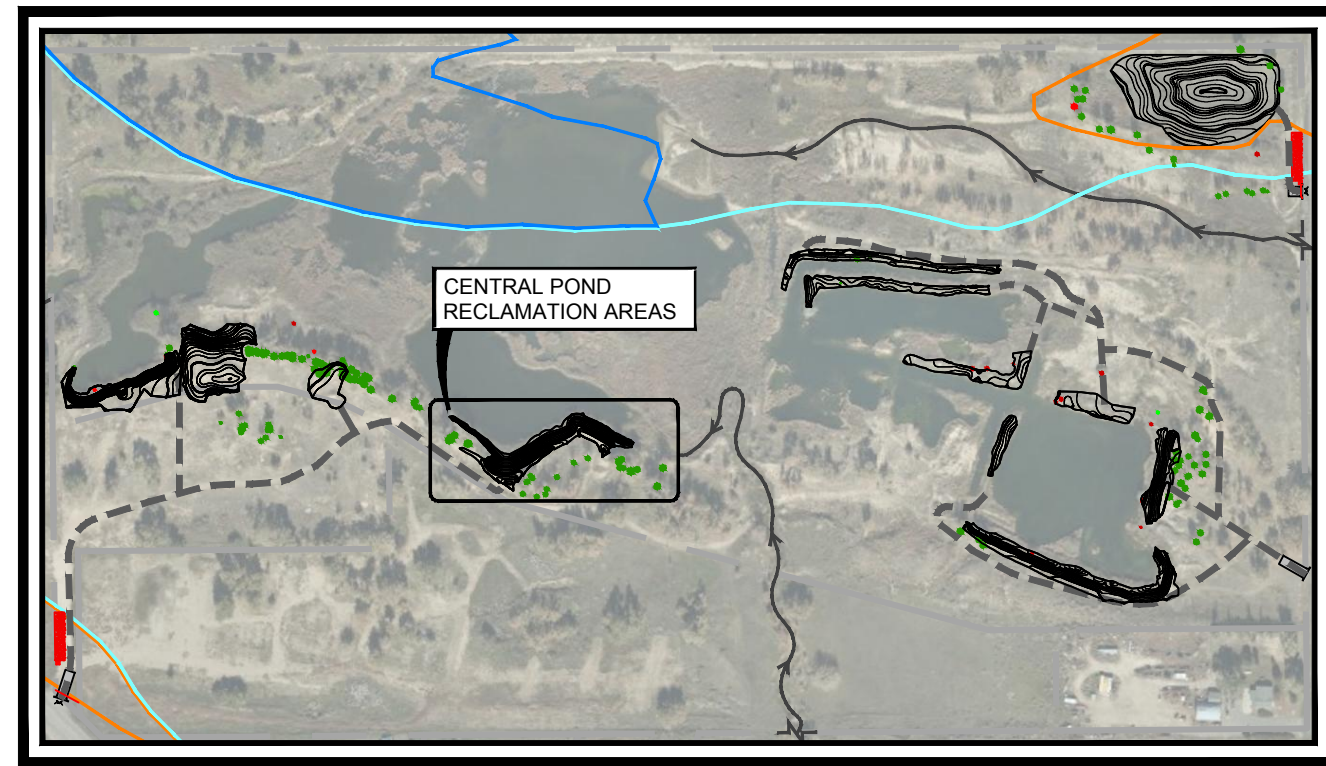
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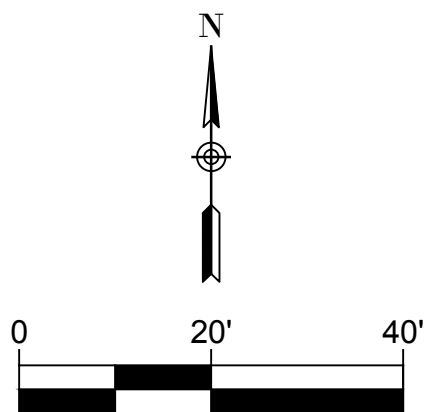
FLOOD INSURANCE RATE MAP (FIRM) NUMBER 08005C0201L
VERSION NO. 2.3.3.2, MAP REVISION DATE: FEBRUARY 17, 2017

COMMUNITY	NUMBER	PANEL	SUFFIX
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AURORA, CITY OF	080002	0201	L

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DESIGNATED FILL AREA IS LOCATED OUTSIDE OF EXISTING FLOOD ZONE X



KEY MAP
SCALE: 1" = 400'



No.	DATE	REVISIONS	APPR.

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DESIGNED BY:	JIM
APPROVED BY:	AB



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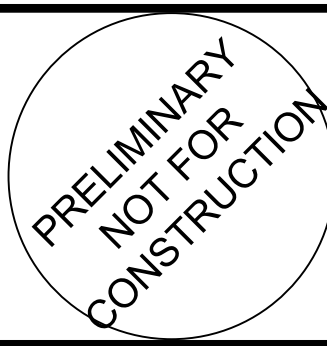


Parks, Recreation &
Open Space

PREPARED BY:

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ENGINEERING

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Centennial, CO 80112
Phone (303) 221-0802



CONFLUENCE NATURAL AREA RESTORATION

SWMP

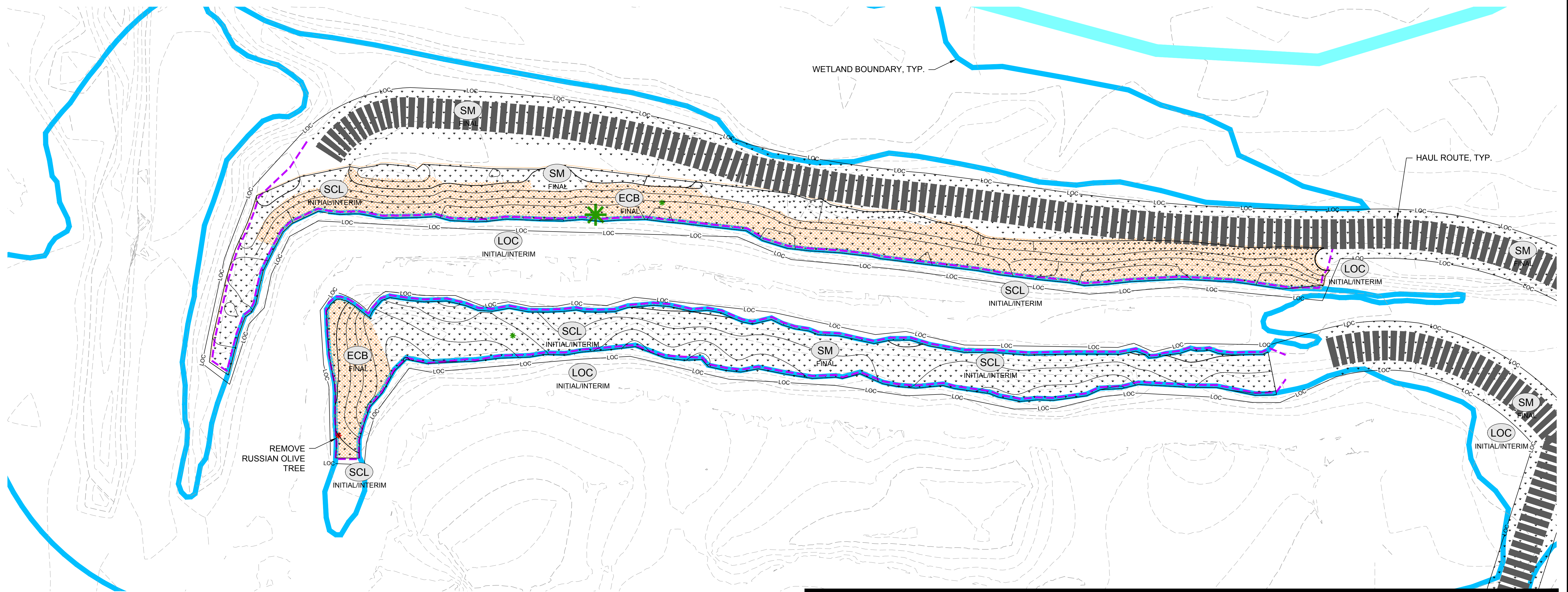
CENTRAL POND RECLAMATION AREAS

DATE

NOV 2020

SHEET

15 OF 19

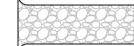
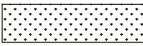
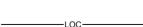
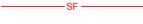


This map illustrates the proposed wetland area, including various zones and boundaries. Key features include:

- Wetland Boundary, TYP.:** Indicated by a thick blue line.
- LOC (Initial/Interim):** Labeled in several locations, indicating the initial/interim location of the wetland.
- LOC (Final):** Labeled in several locations, indicating the final location of the wetland.
- SCL (Initial/Interim):** Labeled in several locations, indicating the initial/interim location of the wetland.
- SM (Final):** Labeled in several locations, indicating the final location of the wetland.
- ECB (Final):** Labeled in one location, indicating the final location of the wetland.
- SF (Initial/Interim):** Labeled in one location, indicating the initial/interim location of the wetland.
- REMOVE RUSSIAN OLIVE TREE:** Indicated by red star symbols.
- HAUL ROUTE, TYP.:** Indicated by a dashed line.

BMP LEGEND

VEHICLE TRACKING CONTROL			INITIAL/INTERIM
SEEDED EROSION CONTROL BLANKET			FINAL
SEEDING AND MULCHING			FINAL
STABILIZED STAGING AREA			INITIAL/INTERIM
PORT A TOILET			INITIAL/INTERIM
DEBRIS & TRASH CONTROL			INITIAL/INTERIM
LIMITS OF CONSTRUCTION			INITIAL/INTERIM
SILT FENCE			

VEHICLE TRACKING CONTROL		 INITIAL/INTERIM
SEEDED EROSION CONTROL BLANKET		 FINAL
SEEDING AND MULCHING		 FINAL
STABILIZED STAGING AREA		 INITIAL/INTERIM
PORT A TOILET		 INITIAL/INTERIM
DEBRIS & TRASH CONTROL		 INITIAL/INTERIM
LIMITS OF CONSTRUCTION		 INITIAL/INTERIM
SILT FENCE		 INITIAL/INTERIM
CONSTRUCTION FENCE		 INITIAL/INTERIM
SEDIMENT CONTROL LOG		 INITIAL/INTERIM





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

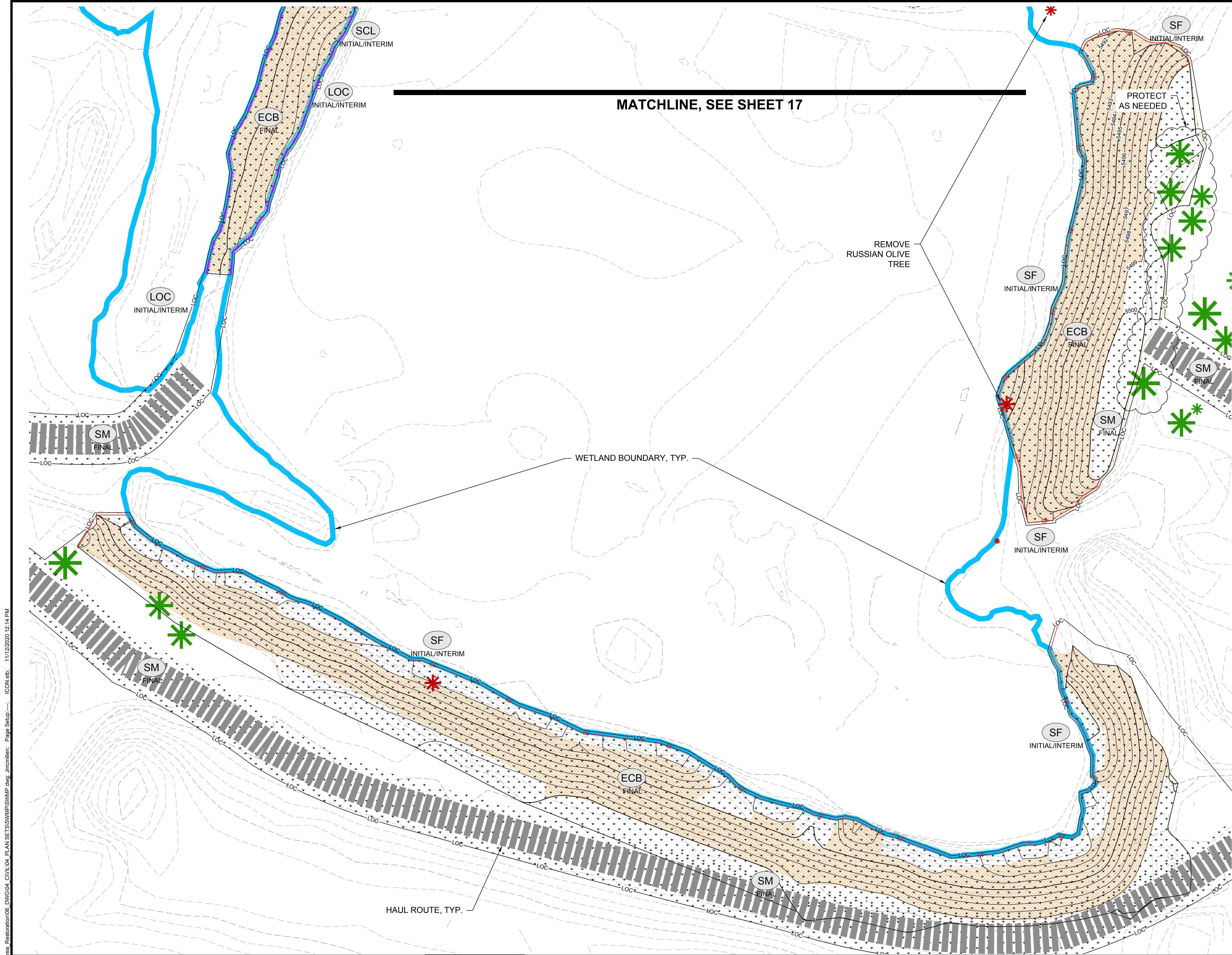
COMMUNITY	NUMBER	PANEL	SUFFIX
ARAPAHOE COUNTY	080011	0201	L
AURORA, CITY OF	080002	0201	L

This aerial map displays the Eastern Pond Reclamation Areas (2). The map includes a large body of water in the upper left, a winding road or path in the center, and several smaller ponds or wetlands. A dashed line outlines a specific area, and a solid line indicates a boundary. A small inset map in the top right corner shows a detailed view of a specific area. A scale bar is located in the bottom right corner.

A north arrow pointing upwards, labeled 'N' at the top. Below the arrow is a scale bar with markings at 0, 20, and 40 meters.

				DRAWN BY: JIM		 Know what's below. Call before you dig.	PREPARED FOR:  Parks, Recreation & Open Space	PREPARED BY:  7000 S. Yosemite Street, Suite 120 Centennial, CO 80112 Phone (303) 221-0802		CONFLUENCE NATURAL AREA RESTORATION		DATE		
				DESIGNED BY: JIM								SWMP		NOV 2020
				APPROVED BY: AB										SHEET
No.	DATE	REVISIONS		APPR.						20-020		EASTERN POND RECLAMATION AREAS (2)	17 OF 19	

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BMP LEGEND

VEHICLE TRACKING CONTROL		VTC INITIAL/INTERIM
SEEDER 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
SILT FENCE		SF INITIAL/INTERIM
CONSTRUCTION FENCE		CF INITIAL/INTERIM
SEDIMENT CONTROL LOG		SCL INITIAL/INTERIM

CITY OF AURORA NOTE:

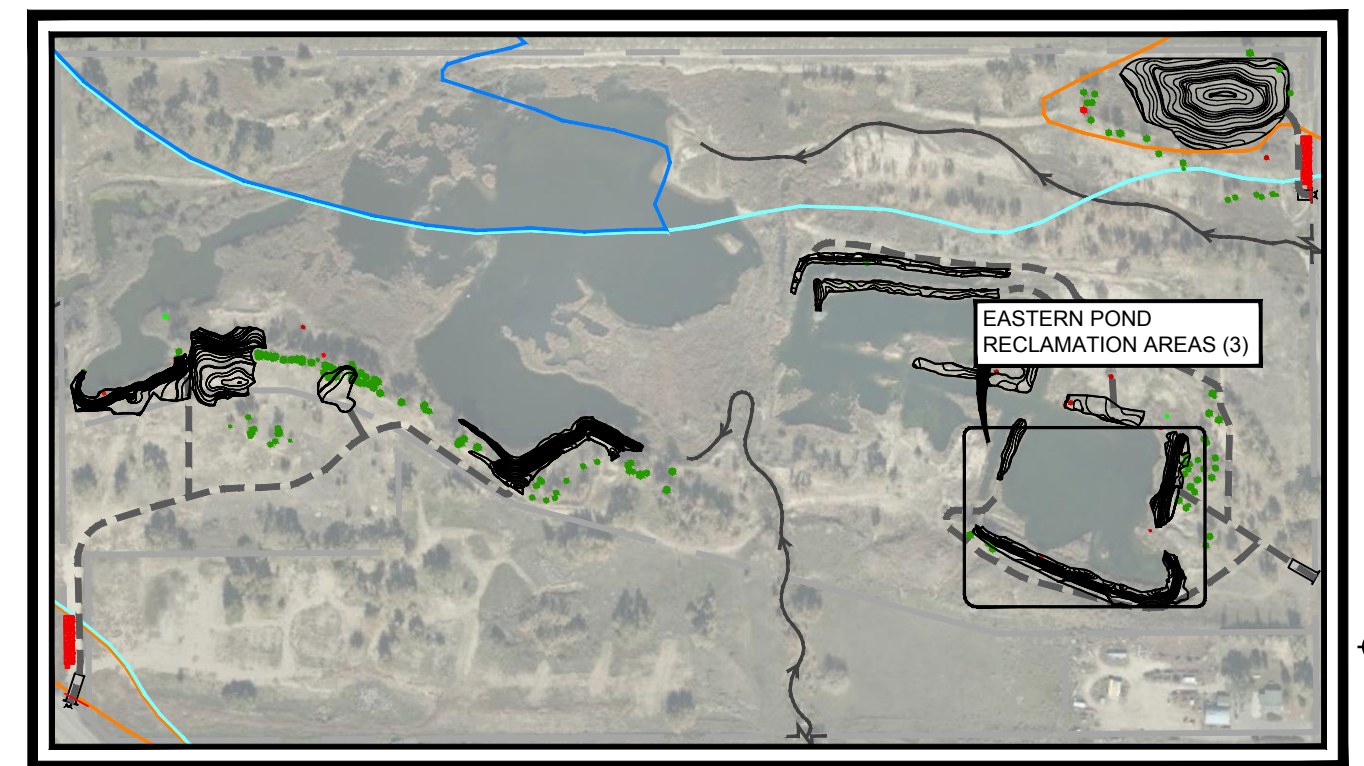
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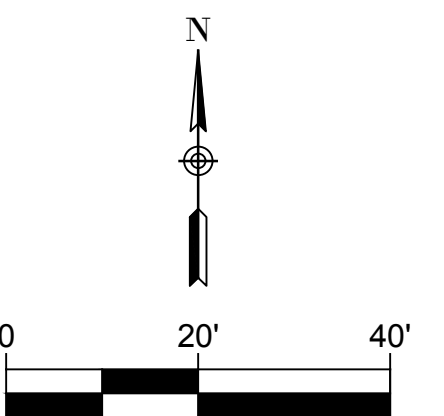
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KEY MAP
SCALE: 1" = 400'



No.	DATE	REVISIONS	APPR.

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

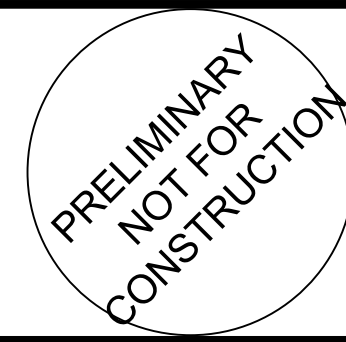


PREPARED FOR:



PREPARED BY:

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7000 S. Yosemite Street, Suite 120
Centennial, CO 80112
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CONFLUENCE NATURAL AREA RESTORATION

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EASTERN POND RECLAMATION AREAS (3)

DATE

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								20-020		19 OF 19	