

"Exhibit A"

URBAN DRAINAGE AND FLOOD CONTROL DISTRICT  
ADAMS COUNTY, COLORADO

OWNER

URBAN DRAINAGE AND FLOOD CONTROL DISTRICT  
2480 WEST 26TH AVENUE, SUITE 156B  
DENVER, CO 80211

TELEPHONE: (303)455-6277

CONTACT: DAVID BENNETTS

OWNER

ADAMS COUNTY PARKS AND OPEN SPACE  
9755 HENDERSON ROAD  
BRIGHTON, CO 80601

TELEPHONE: (303)637-8014

CONTACT: MARC PEDRUCCI

ENGINEER

CDM SMITH

555 17TH STREET, SUITE 500  
DENVER, CO 80202

TELEPHONE: (303)383-2300

CONTACT: BRIAN MURPHY P.E.

LANDSCAPE ARCHITECT

DHM DESIGN

900 SOUTH BROADWAY, SUITE 300  
DENVER, CO 80209

TELEPHONE: (303)829-5566

CONTACT: MARK WILCOX



1-800-922-1987  
CALL 2 (TWO) BUSINESS DAYS IN ADVANCE  
BEFORE YOU DIG, GRADE, OR EXCAVATE  
FOR THE MARKING OF UNDERGROUND  
MEMBER UTILITIES

88TH AVENUE  
OPEN SPACE IMPROVEMENTS  
DECEMBER 2017

DRAFT FINAL DESIGN - NOT FOR CONSTRUCTION  
URBAN DRAINAGE CONTRACT NUMBER: 105546



LIST OF DRAWINGS

G1.01	COVER SHEET
G1.02	GENERAL NOTES, LEGEND
G1.03	SITE OVERVIEW
SC1.01	SURVEY CONTROL
C1.01	EXISTING CONDITIONS, DEMOLITION/SITE PREPARATION, TREE PROTECTION
C1.02	EXISTING CONDITIONS, DEMOLITION/SITE PREPARATION, TREE PROTECTION
C1.03	EXISTING CONDITIONS, DEMOLITION/SITE PREPARATION, TREE PROTECTION
C1.04	EXISTING CONDITIONS, DEMOLITION/SITE PREPARATION, TREE PROTECTION
C2.01	EROSION AND SEDIMENT CONTROL PLANS
C2.02	EROSION AND SEDIMENT CONTROL PLANS
C2.03	EROSION AND SEDIMENT CONTROL PLANS
C2.04	EROSION AND SEDIMENT CONTROL PLANS
C3.01	SITE LAYOUT PLAN
C3.02	SITE LAYOUT PLAN
C3.03	SITE LAYOUT PLAN
C3.04	SITE LAYOUT PLAN
C3.05	SITE LAYOUT PLAN
C4.01	SITE GRADING PLAN
C4.02	SITE GRADING PLAN
C4.03	SITE GRADING PLAN
C4.04	SITE GRADING PLAN
C4.05	SITE GRADING PLAN
C4.06	SITE GRADING PLAN
C4.07	SITE GRADING PLAN
C4.08	SITE GRADING PLAN
C5.01	CIVIL DETAILS
C5.02	CIVIL DETAILS
C5.03	CONCRETE TRAIL CENTERLINE GEOMETRY
L1.00	MATERIALS AND LAYOUT PLANS OVERVIEW
L1.01	MATERIALS AND LAYOUT PLANS
L1.02	MATERIALS AND LAYOUT PLANS
L1.03	MATERIALS AND LAYOUT PLANS
L1.04	MATERIALS AND LAYOUT PLANS
L1.05	MATERIALS AND LAYOUT PLANS
L1.06	MATERIALS AND LAYOUT PLANS
L1.07	MATERIALS AND LAYOUT PLANS
L1.08	MATERIALS AND LAYOUT PLANS
L1.09	PARKING LOT ENLARGEMENT
L1.10	ROCK JETTY ENLARGEMENT
L2.01	PARKING LOT GRADING ENLARGEMENT
L2.02	ROCK JETTY GRADING ENLARGEMENT
L3.00	LANDSCAPE/ECOLOGY PLANS OVERVIEW
L3.01	LANDSCAPE/ECOLOGY PLANS
L3.02	LANDSCAPE/ECOLOGY PLANS
L3.03	LANDSCAPE/ECOLOGY PLANS
L3.04	LANDSCAPE/ECOLOGY PLANS
L3.05	LANDSCAPE/ECOLOGY PLANS
L3.06	LANDSCAPE/ECOLOGY PLANS
L3.07	LANDSCAPE/ECOLOGY PLANS
L3.08	LANDSCAPE/ECOLOGY PLANS
L4.01	LANDSCAPE NOTES AND DETAILS
L4.02	LANDSCAPE NOTES AND DETAILS
L4.03	LANDSCAPE NOTES AND DETAILS
L4.04	LANDSCAPE NOTES AND DETAILS
L5.01	SITE DETAILS
L5.02	SITE DETAILS
L5.03	SITE DETAILS
L5.04	SITE DETAILS
L5.05	SITE DETAILS
L5.06	SITE DETAILS
L5.07	SITE DETAILS
L7.01	OVERALL WETLAND RESTORATION PLAN
L7.02	WETLAND RESTORATION PLAN
L7.03	WETLAND RESTORATION PLAN
L7.04	WETLAND RESTORATION PLAN
L7.05	WETLAND RESTORATION PLAN
L7.06	WETLAND RESTORATION PLAN
S1.01	STRUCTURAL GENERAL NOTES AND DRAWING LIST
S1.02	FISHING DOCK GENERAL LAYOUT
S1.03	ABUTMENT PLAN, ELEVATION AND DETAILS
S1.04	HELICAL PIER LAYOUT AND FRAMING PLANS
S1.05	HANDRAIL LAYOUT AND DETAILS

-- APPROVALS--  
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT

KEN A. MACKENZIE \_\_\_\_\_ Date \_\_\_\_\_

DAVID BENNETTS \_\_\_\_\_ Date \_\_\_\_\_

ADAMS COUNTY \_\_\_\_\_

MARC PEDRUCCI \_\_\_\_\_ Date \_\_\_\_\_

DHM DESIGN

CDM  
Smith  
DENVER, CO

Water

Environment

Transportation

Energy

Facilities



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#### SITE PLAN LEGEND

	LIMITS OF CONSTRUCTION
	100 YEAR FLOODPLAIN
	PROPERTY LINE
	EDGE OF ASPHALT
	FENCE
	STORM SEWER
	WATER
	GAS
	ELECTRICAL LINES
	ELECTRICAL TRANSMISSION TOWER
	POWER POLE
	UTILITY BOLLARD
	EXISTING MAJOR TOPO LINES
	EXISTING MINOR TOPO LINES
	PROPOSED MAJOR TOPO LINES
	PROPOSED MINOR TOPO LINES
	DETAIL CALLOUT
	SOIL BORING LOCATION
	SOIL SAMPLE LOCATION

#### ABBREVIATIONS

APPROX - APPROXIMATELY  
MWRD - METRO WASTEWATER RECLAMATION DISTRICT  
TYP - TYPICAL

#### MATERIALS LEGEND

	EXISTING VEGETATION
	RIFLE STRUCTURE (UNDER SEPARATE CONTRACT)
	EXISTING WETLANDS
	SOIL RIPRAP (UNDER SEPARATE CONTRACT)
	EXISTING CRUSHER FINES TRAIL
	EXISTING CONCRETE TRAIL
	PROPOSED CRUSHER FINE TRAIL
	PROPOSED CONCRETE TRAIL
	COIR MAT
	COCONUT BLANKET
	REMOVE EXISTING CONCRETE
	BOULDER EDGE
	PARKING LOT
	RETAINING WALL
	PICNIC TABLE
	SHADE STRUCTURE
	TOILET ENCLOSURE

#### GENERAL NOTES

1. SCALES SHOWN ARE FOR FULL SIZE SHEETS (22" x 34") AND REQUIRES ADJUSTMENT FOR HALF (11" x 17") SIZE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
3. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE OWNER. THE OWNER RESERVE THE RIGHT TO ACCEPT OR REJECT ANY MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO THEIR STANDARDS AND SPECIFICATIONS.
4. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED DRAWINGS AND PERMITS AT THE JOB SITE AT ALL TIMES.
5. TOPOGRAPHICAL MAPPING ON THESE DRAWINGS WAS GENERATED FROM 2013 FEMA/USGS LIDAR DATA AND SUPPLEMENTAL FIELD SURVEY BY CDM SMITH AND FLATIRON SURVEYING. THE FOLLOWING STEPS WERE TAKEN TO GENERATE EXISTING GROUND CONTOURS:
  - A. LIDAR SURFACE POINTS WERE ACQUIRED FOR EXTENTS OF THE PROJECT.
  - B. THE PROJECT COORDINATES ARE COLORADO STATE PLANE CENTRAL ZONE 83(2011) COORDINATES.
  - C. SUPPLEMENTAL FIELD SURVEY WAS COMPLETED BY CDM SMITH IN 2016 AND FLATIRON SURVEYING IN 2017. WITHIN THE FIELD SURVEY LIMITS, CDM SMITH REPLACED THE LIDAR DATA WITH THE FIELD SURVEY DATA AND THEN MERGED THE FIELD SURVEY DATA WITH THE REMAINING LIDAR DATA TO CREATE A SINGLE SURFACE MODEL.
6. EXISTING GRADES LINES, AND ANY EXISTING VERTICAL DATA ARE PROVIDED AS THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING GRADES AND NOTIFY THE ENGINEER OF ANY SUBSTANTIAL VARIATIONS PRIOR TO INSTALLATION OF A STRUCTURE AND CONFORMANCE WITH THE GRADES/ELEVATIONS.
7. ALL GRADES SHOWN ARE FINISHED GRADES, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
8. THE LOCATION OF ANY PROPERTY LINES SHOWN ON THE DRAWINGS IS APPROXIMATE.
9. THE TYPE, SIZE, LOCATION, AND NUMBER OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THE DRAWING, UNLESS OTHERWISE NOTED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ALONG THE ROUTE OF THE WORK BEFORE COMMENCING NEW CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH COMPANIES TRYING TO COORDINATE THE RELOCATION EFFORT. LINES NOT RELOCATED SHALL BE PROTECTED BY THE CONTRACTOR IN PLACE. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO TOLL FREE AT 1-800-922-1987, AT LEAST 2 WORKING DAYS PRIOR TO BEGINNING EXCAVATING OR GRADING.
10. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING STABLE EXCAVATIONS AND TEMPORARY SLOPES AND FOR SATISFYING ALL APPLICABLE OSHA, FEDERAL, STATE, AND LOCAL REGULATIONS. TEMPORARY EXCAVATIONS SHALL PROVIDE, AT MINIMUM, THE TRENCH DIMENSIONS AND CLEARANCES SHOWN OR SPECIFIED. TEMPORARY CONSTRUCTION SLOPES SHALL BE SLOPED, SHORED, SHEETED, AND/OR BRACED IN ACCORDANCE WITH STABILITY REQUIREMENTS AND APPLICABLE REGULATIONS, AND SHALL BE NO STEEPER THAN THE SLOPES SHOWN OR SPECIFIED WITHOUT THE APPROVAL OF THE ENGINEER. ANY SUCH APPROVALS BY THE ENGINEER WILL NOT RELIEVE THE CONTRACTOR FROM SOLE RESPONSIBILITY FOR PROVIDING STABLE EXCAVATIONS AND TEMPORARY SLOPES.
11. EXISTING FACILITIES NOT INDICATED TO BE REMOVED SHALL BE PROTECTED IN PLACE OR REMOVED AND REPLACED IN KIND, AS APPROVED BY ENGINEER.
12. THE WORK WILL TAKE PLACE IN AND AROUND A STREAM, SUBJECT TO PERIODIC FLOODING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF SURFACE AND SUBSURFACE WATER DURING THE COURSE OF THE WORK. ANY DAMAGE TO THE WORK RESULTING FROM SURFACE FLOWS, BASE FLOWS OR FLOOD FLOWS SHALL BE CORRECTED BY THE CONTRACTOR AT THE CONTRACTOR'S SOLE COST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND SATISFYING THE REQUIREMENTS OF ANY APPLICABLE PERMITS PERTAINING TO WATER AND EROSION CONTROL.
13. ALL STRUCTURES SHALL BE CONSTRUCTED IN DEWATERED CONDITIONS. GROUNDWATER SHALL BE MAINTAINED A MINIMUM OF 2 FEET BELOW THE LOWEST POINT OF EXCAVATION FOR ANY GIVEN STRUCTURE.
14. TOPSOIL SHALL BE STRIPPED PRIOR TO GRADING, STOCKPILED DURING GRADING, AND REDISTRIBUTED OVER GRADED AREAS PRIOR TO SEEDING.
15. CONTRACTOR SHALL FIELD VERIFY THE LOCATION (HORIZONTAL AND VERTICAL) AT CONNECTIONS TO ALL EXISTING INFRASTRUCTURE. THIS INFORMATION SHALL BE COLLECTED AND SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION AND/OR PRIOR TO INSTALLATION OF ANY NEW FACILITIES SHOWN ON THESE CONTRACT DRAWINGS. THE ENGINEER WILL DETERMINE IF ANY MINOR MODIFICATIONS TO THE NEW FACILITIES SHOWN ON THE CONTRACT DRAWINGS ARE NECESSARY SUCH AS HORIZONTAL AND VERTICAL ADJUSTMENTS.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL PERMITS, LICENSE, FEES, AND BONDS THAT ARE NECESSARY AS REQUIRED BY URBAN DRAINAGE AND FLOOD CONTROL DISTRICT OR OTHER AGENCIES REQUIRED TO CONSTRUCT THE PROJECT.
17. CONTRACTOR SHALL CONFINE WORK TO THE CONSTRUCTION LIMITS SHOWN ON THE PLANS.
18. MUCK EXCAVATION SHALL BE USED ONLY AS APPROVED BY THE ENGINEER.
19. CONTRACTOR SHALL SUBMIT AN ACCESS CONTROL PLAN AND PEDESTRIAN TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY ADAMS COUNTY AND THE CITY OF THORNTON PRIOR TO THE START OF CONSTRUCTION.
20. OUTSIDE THE AREAS REQUIRING EARTHWORK, THE CONTRACTOR SHALL NOT DEFACE, INJURE, OR DESTROY TREES OR SHRUBS, NOR REMOVE OR CUT THEM WITHOUT PRIOR APPROVAL. NO ROPES, CABLES, OR GUYS SHALL BE FASTENED TO OR ATTACHED TO ANY EXISTING NEARBY TREES FOR ANCHORAGE UNLESS SPECIFICALLY AUTHORIZED BY THE CONSTRUCTION MANAGER.
21. BEFORE BEGINNING OPERATIONS NEAR TREES, PROTECT TREES THAT MAY POSSIBLY BE DEFAUCED, BRUISED, INJURED, OR OTHERWISE DAMAGED BY THE CONSTRUCTION EQUIPMENT, DUMPING OR OTHER OPERATIONS, BY PLACING BOARDS, PLANKS, OR POLES AROUND THEM. REPAIRING DAMAGE TO TREES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
22. IF ANY DIRECT OR INDIRECT DAMAGE IS DONE TO PUBLIC OR PRIVATE PROPERTY RESULTING FROM ANY ACT, OMISSION, NEGLIGENCE, OR MISCONDUCT, THE CONTRACTOR SHALL RESTORE THE DAMAGED PROPERTY TO A CONDITION EQUAL TO OR BETTER THAN EXISTING BEFORE THE DAMAGE AT NO ADDITIONAL COST TO THE COMPANY. REPAIR, REBUILD, OR RESTORE PROPERTY AS DIRECTED OR MAKE GOOD SUCH DAMAGE IN AN ACCEPTABLE MANNER.
23. CONTRACTOR SHALL HANDLE AND DISPOSE OF SOLID WASTES IN SUCH A MANNER THAT WILL PREVENT CONTAMINATION OF THE ENVIRONMENT. PLACE SOLID WASTES IN CONTAINERS THAT ARE EMPTIED ON A REGULAR SCHEDULE. TRANSPORT ALL SOLID WASTE OFF SITE AND DISPOSE OF WASTE IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REQUIREMENTS. STORE CHEMICAL WASTE AWAY FROM THE WORK AREAS IN CORROSION RESISTANT CONTAINERS AND DISPOSE OF WASTE IN ACCORDANCE WITH FEDERAL STATE, AND LOCAL REQUIREMENTS.
24. REMOVE ALL SIGNS OF TEMPORARY CONSTRUCTION FACILITIES SUCH AS HAUL ROADS, WORK AREAS, STRUCTURES, FOUNDATIONS OF TEMPORARY STRUCTURES, STOCKPILES OF EXCESS OF WASTE MATERIALS, OR ANY OTHER VESTIGES OF CONSTRUCTION AS DIRECTED BY THE ENGINEER. IT IS ANTICIPATED THAT EXCAVATION, FILLING AND PLOWING OF ROADWAYS WILL BE REQUIRED TO RESTORE THE AREA TO NEAR NATURAL CONDITIONS WHICH WILL PERMIT THE GROWTH OF VEGETATION THEREON. THE DISTURBED AREAS SHALL BE PREPARED AND SEEDED AS DESCRIBED IN THE EROSION AND SEDIMENT CONTROL PLAN, OR AS APPROVED BY THE ENGINEER.
25. ALL DEBRIS AND EXCESS MATERIAL WILL BE DISPOSED OF OUTSIDE WATERBODIES, WETLAND OR FLOODPLAIN AREAS.
26. ON COMPLETION OF CONSTRUCTION AND AFTER REMOVAL OF ALL DEBRIS, RUBBISH, AND TEMPORARY CONSTRUCTION, CONTRACTOR SHALL LEAVE THE CONSTRUCTION AREA IN A CLEAN CONDITION SATISFACTORY TO THE ENGINEER. CLEANING SHALL INCLUDE DISPOSAL OF ALL ITEMS AND MATERIALS NOT REQUIRED TO BE SALVAGED, AS WELL AS DEBRIS AND RUBBISH RESULTING FROM THE CONSTRUCTION ACTIVITIES.
27. "CONTRACT DOCUMENTS FOR CONSTRUCTION OF 88TH AVENUE OPEN SPACE IMPROVEMENTS" ARE THE GOVERNING SPECIFICATIONS FOR THIS PROJECT.

#### EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL ADHERE TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, REGULATIONS, AND ORDINANCES THAT APPLY TO EROSION AND SEDIMENT CONTROL. ADHERENCE TO THESE LAWS, REGULATIONS, AND ORDINANCES MAY INVOLVE THE PREPARATION OF EROSION AND SEDIMENT CONTROL PLANS, SUBMITTAL OF PERMIT APPLICATIONS AND SUBSEQUENT APPROVALS.
2. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH SEDIMENT CONTROL PLANS PRIOR TO, DURING, AND AFTER ANY GROUND DISTURBANCE RELATED TO CONSTRUCTION IN ORDER TO PROTECT EXISTING WETLANDS AND SURFACE WATER QUALITY.
3. DISTURBED AREAS SHALL BE PREPARED AND SEEDED AS DESCRIBED IN THE DRAWINGS, OR AS APPROVED BY THE ENGINEER.
4. THE CONTRACTOR SHALL PREVENT PROJECT-RELATED SEDIMENTS FROM ENTERING SOUTH PLATTE RIVER, ASSOCIATED TRIBUTARIES, OR PONDS. IF PROJECT-RELATED SEDIMENTS ENTER ANY WATERBODY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REMOVAL AND ASSOCIATED TIME.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. HINDS  
DRAWN BY: M. WAINWRIGHT  
SHEET CHK'D BY: J. HINDS  
CROSS CHK'D BY: B. MURPHY  
APPROVED BY: B. MURPHY  
DATE: DECEMBER 2017

**CDM Smith**  
555 17th Street, Suite 500  
Denver, CO 80202  
Tel: (303) 383-2300

**DHM DESIGN**



URBAN DRAINAGE AND FLOOD CONTROL DISTRICT  
88TH AVENUE  
OPEN SPACE IMPROVEMENTS  
ADAMS COUNTY, COLORADO



GENERAL NOTES  
LEGEND

PROJECT NO. 33335-113757  
FILE NAME: CGENT001.dwg  
SHEET NO.  
G1.02



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REV.	NO.	DATE	DRWN	CHKD	REMARKS

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DRAWN BY: M. WAINWRIGHT  
SHEET CHK'D BY: J. HINDS  
CROSS CHK'D BY: B. MURPHY  
APPROVED BY: B. MURPHY  
DATE: DECEMBER 2017

**CDM Smith**  
555 17th Street, Suite 500  
Denver, CO 80202  
Tel: (303) 385-2500

**DHM DESIGN**

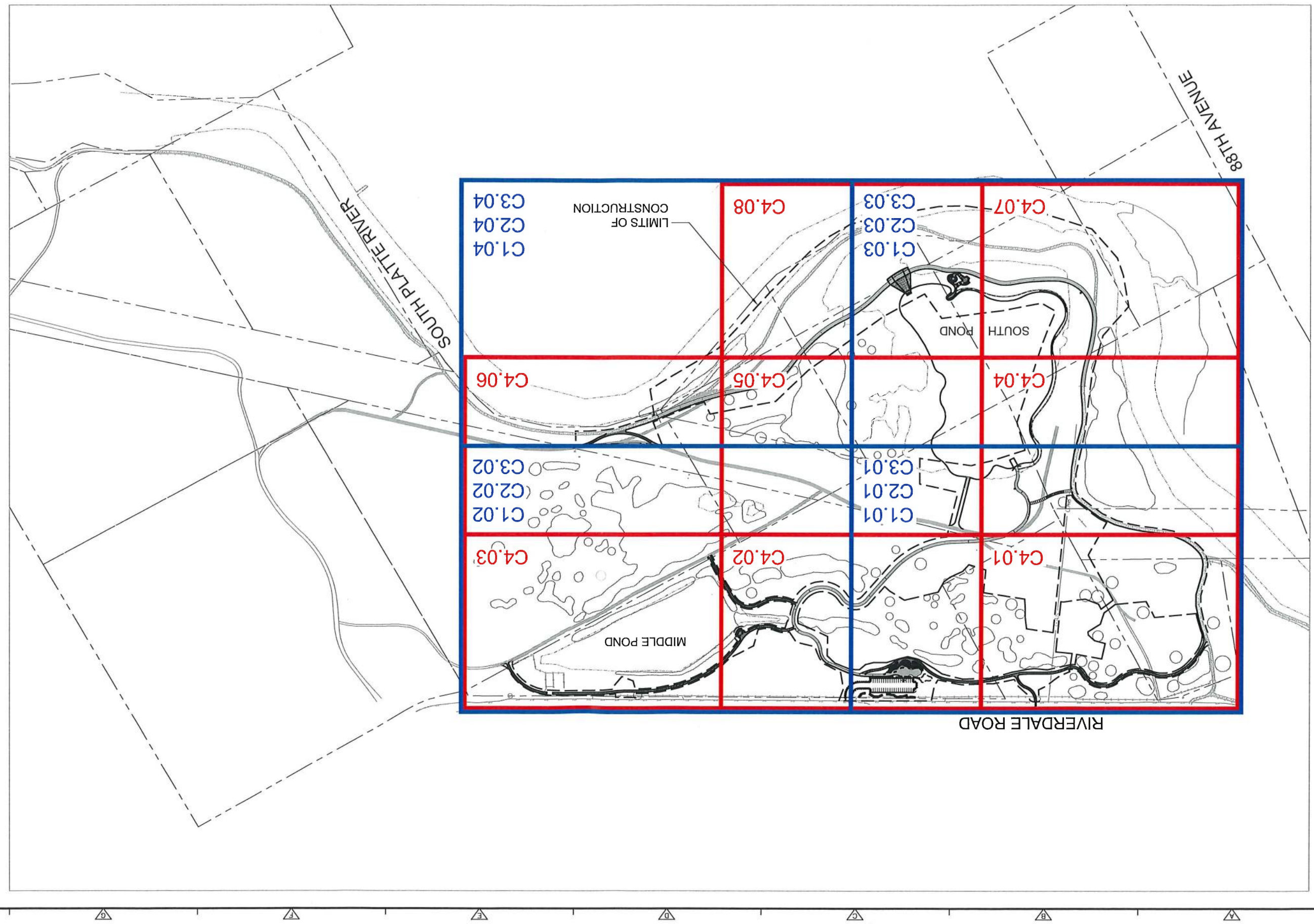


URBAN DRAINAGE AND FLOOD CONTROL DISTRICT  
88TH AVENUE  
OPEN SPACE IMPROVEMENTS  
ADAMS COUNTY, COLORADO



SITE OVERVIEW

PROJECT NO. 33335-113757  
FILE NAME: G103.dwg  
SHEET NO. G1.03

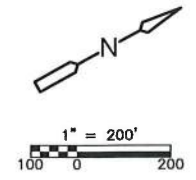
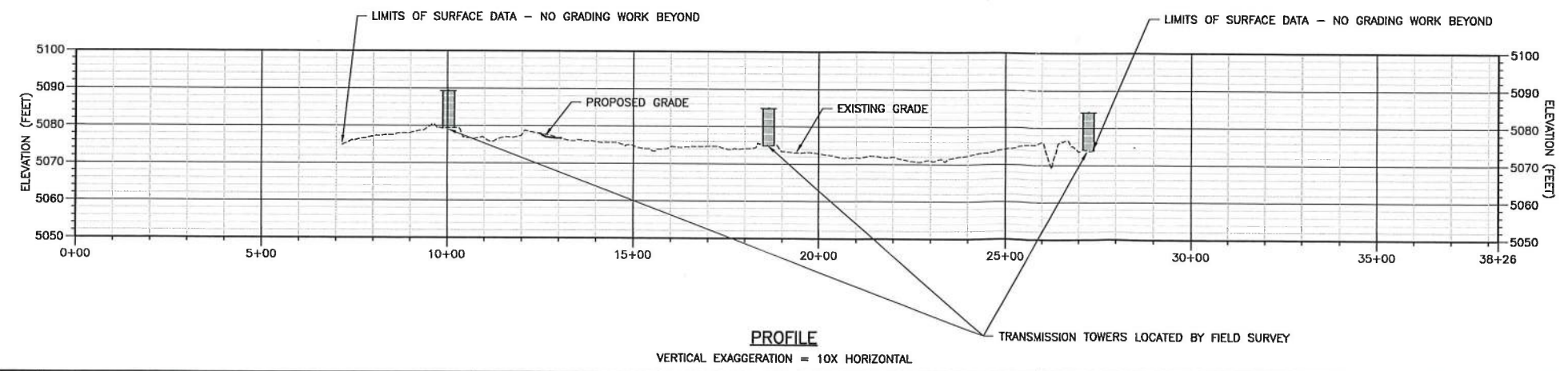
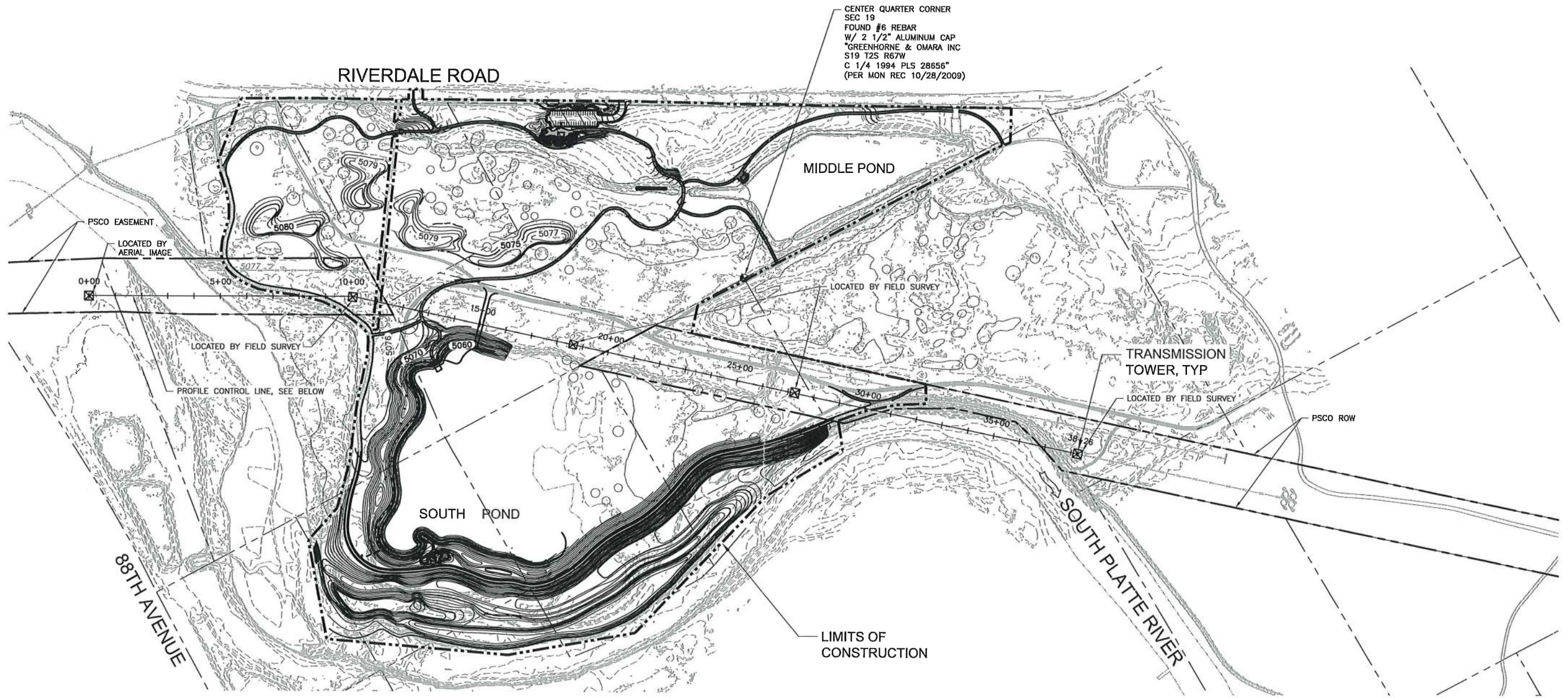


DRAFT FINAL DESIGN - NOT FOR CONSTRUCTION



6-19-18

EXHIBIT A



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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
SHEET CHK'D BY: \_\_\_\_\_  
CROSS CHK'D BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_  
DATE: APRIL 2018

555 17th Street, Suite 500  
Denver, CO 80202  
Tel: (303) 383-2300

URBAN DRAINAGE AND FLOOD CONTROL DISTRICT  
88TH AVENUE  
OPEN SPACE IMPROVEMENTS  
ADAMS COUNTY, COLORADO

XCEL ENERGY TRANSMISSION SYSTEMS  
PLAN AND PROFILE

PROJECT NO. 33335-113757
FILE NAME: HVE.DWG
SHEET NO. 1



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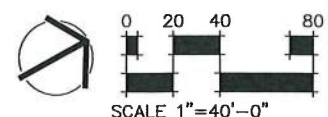


### ECOLOGICAL LEGEND

- LOWER RIVER BANK SEED
- ZONE 1 SEED
- ZONE 2 SEED
- ZONE 3 SEED
- ZONE 4 SEED
- EXISTING WETLANDS
- EXISTING FENCE
- EXISTING VEGETATION
- PRESERVATION AREA
- EXISTING VEGETATION TO BE REMOVED
- ECOLOGICAL BOULDER

### PLANT SCHEDULE

TREES	CODE	BOTANICAL NAME / COMMON NAME	CONT	CAL
PP	PP	Pinus ponderosa / Ponderosa Pine	B&B	2"
PA	PA	Populus angustifolia / Narrowleaf Cottonwood	#5	
PS	PS	Populus deltoides monilifera / Plains Cottonwood	#5	
PS4	PS4	Populus deltoides monilifera / Plains Cottonwood (Planted <2' Deep)	#5	
PS6	PS6	Populus deltoides monilifera / Plains Cottonwood GW Test Pit	B&B	3"
PS3	PS3	Populus deltoides monilifera / Plains Cottonwood	B&B	3"
PS8	PS8	Populus deltoides monilifera / Plains Cottonwood	Poles	
SA	SA	Salix amygdaloides / Peach Leaf Willow	#5	
SHRUBS	CODE	BOTANICAL NAME / COMMON NAME	CONT	
CR	CR	Chrysothamnus nauseosus / Rubber Rabbitbrush	#5	
PA2	PA2	Prunus americana / Wild Plum	#5	
PC	PC	Prunus virginiana / Chokecherry	#5	
RA	RA	Rhus aromatica / Fragrant Sumac	#5	
RG	RG	Ribes cereum / Golden Currant	#5	
SE	SE	Salix exigua / Sandbar Willow	Stakes	
SW	SW	Salix sericea / Red Osier Dogwood	#5	
SO	SO	Symphoricarpos occidentalis / Western Snowberry	#5	



REV.	DATE	DRWN	CHKD	REMARKS
1	1/31/18			COST REDUCTION

DESIGNED BY: E. GIBERSON  
DRAWN BY: E. GIBERSON  
SHEET CHK'D BY: M. WILCOX  
CROSS CHK'D BY: M. WILCOX  
APPROVED BY: M. WILCOX  
DATE: 05-31-2018

555 17th Street, Suite 500  
Denver, CO 80202  
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URBAN DRAINAGE AND FLOOD CONTROL DISTRICT  
88TH AVENUE  
OPEN SPACE IMPROVEMENTS  
ADAMS COUNTY, COLORADO

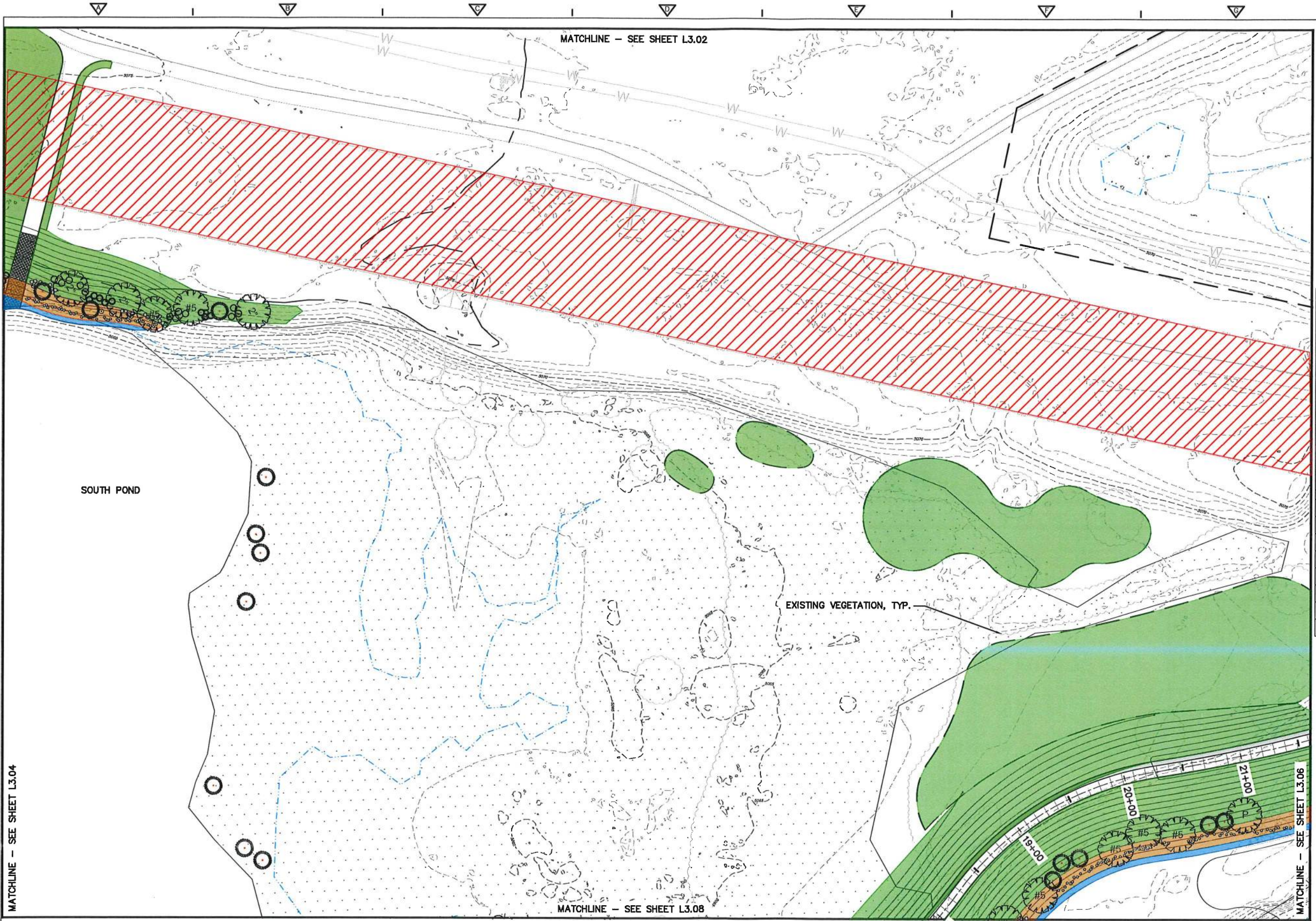
LANDSCAPE AND ECOLOGY PLAN

PROJECT NO. 33335-113757  
FILE NAME:   
SHEET NO. L3.04

ISSUED FOR CONSTRUCTION



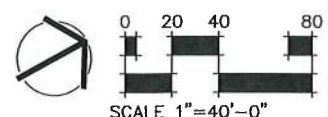
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### ECOLOGICAL LEGEND

- LOWER RIVER BANK SEED
- ZONE 1 SEED
- ZONE 2 SEED
- ZONE 3 SEED
- ZONE 4 SEED
- EXISTING WETLANDS
- EXISTING FENCE
- EXISTING VEGETATION
- PRESERVATION AREA
- EXISTING VEGETATION TO BE REMOVED
- ECOLOGICAL BOULDER

PLANT SCHEDULE				
TREES	CODE	BOTANICAL NAME / COMMON NAME	CONT	CAL
	PP	Pinus ponderosa / Ponderosa Pine	B&B	2"
	PA	Populus angustifolia / Narrowleaf Cottonwood	#5	
	PS	Populus deltoides monilifera / Plains Cottonwood	#5	
	PS4	Populus deltoides monilifera / Plains Cottonwood (Planted < 2' Deep)	#5	
	PS6	Populus deltoides monilifera / Plains Cottonwood GW Test Pit	B&B	3"
	PS3	Populus deltoides monilifera / Plains Cottonwood	B&B	3"
	PS5	Populus deltoides monilifera / Plains Cottonwood	Poles	
	SA	Salix amygdaloides / Peach Leaf Willow	#5	
SHRUBS	CODE	BOTANICAL NAME / COMMON NAME	CONT	
	CR	Chrysothamnus nauseosus / Rubber Rabbitbrush	#5	
	PA2	Prunus americana / Wild Plum	#5	
	PC	Prunus virginiana / Chokecherry	#5	
	RA	Rhus aromatica / Fragrant Sumac	#5	
	RO	Ribes aureum / Golden Currant	#5	
	SE	Salix edulis / Sandbar Willow	Stakes	
	SW	Selida sericea / Red Oiler Dogwood	#5	
	SO	Symphoricarpos occidentalis / Western Snowberry	#5	



REV.	DATE	DRWN	CHKD	REMARKS
1	1/31/18			COST REDUCTION

DESIGNED BY: E. GIBERSON  
DRAWN BY: E. GIBERSON  
SHEET CHK'D BY: M. WILCOX  
CROSS CHK'D BY: M. WILCOX  
APPROVED BY: M. WILCOX  
DATE: 05-31-2018

**CDM Smith**  
555 17th Street, Suite 500  
Denver, CO 80202  
Tel: (303) 383-2300

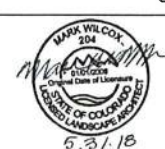
**DHM DESIGN**



URBAN DRAINAGE AND FLOOD CONTROL DISTRICT  
88TH AVENUE  
OPEN SPACE IMPROVEMENTS  
ADAMS COUNTY, COLORADO



LANDSCAPE AND  
ECOLOGY PLAN

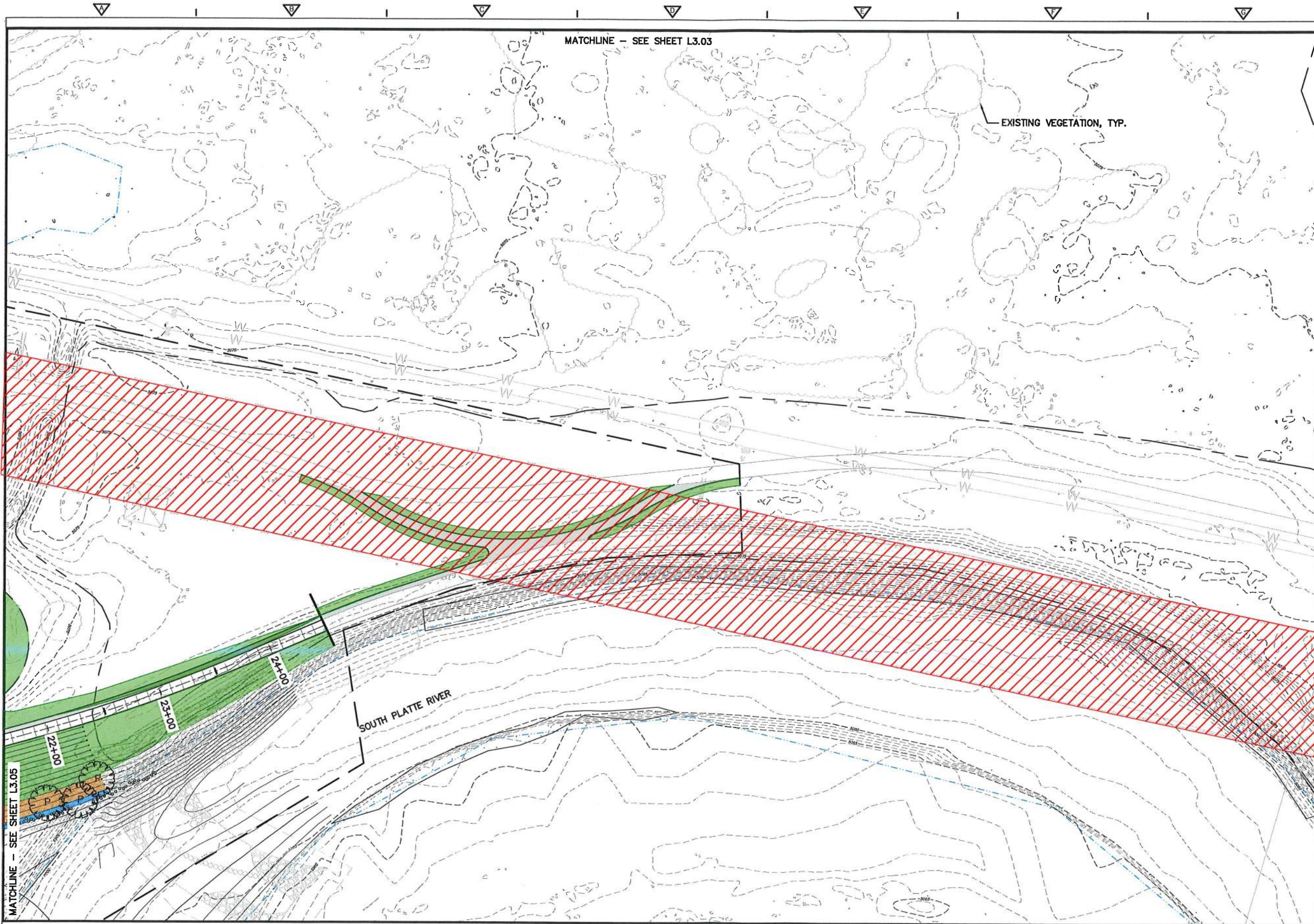


PROJECT NO. 33335-113757  
FILE NAME:  
SHEET NO.  
L3.05

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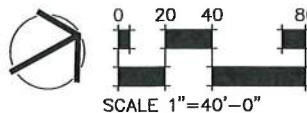


# ECOLOGICAL LEGEND

- LOWER RIVER BANK SEED
- ZONE 1 SEED
- ZONE 2 SEED
- ZONE 3 SEED
- ZONE 4 SEED
- EXISTING WETLANDS
- EXISTING FENCE
- EXISTING VEGETATION
- PRESERVATION AREA
- EXISTING VEGETATION TO BE REMOVED
- ECOLOGICAL BOULDER

## PLANT SCHEDULE

TREES	CODE	BOTANICAL NAME / COMMON NAME	CONT	CAL
PP		Pinus ponderosa / Ponderosa Pine	B&B	2"
PA		Populus angustifolia / Narrowleaf Cottonwood	#5	
PS		Populus deltoides monilifera / Plains Cottonwood	#5	
PS4		Populus deltoides monilifera / Plains Cottonwood (Planted <2' Deep)	#5	
PS6		Populus deltoides monilifera / Plains Cottonwood GW Test Pit	B&B	3"
PS3		Populus deltoides monilifera / Plains Cottonwood	B&B	3"
PS5		Populus deltoides monilifera / Plains Cottonwood	Poles	
SA		Salix amygdaloides / Peach Leaf Willow	#5	
SHRUBS	CODE	BOTANICAL NAME / COMMON NAME	CONT	
OR		Chrysothamnus nauseosus / Rubber Rabbitbrush	#5	
PA2		Prunus americana / Wild Plum	#5	
PC		Prunus virginiana / Chokecherry	#5	
RA		Rhus aromatica / Fragrant Sumac	#5	
RG		Ribes cereum / Golden Currant	#5	
SE		Salix exigua / Sandbar Willow	Stakes	
SN		Solidago sericea / Red Ostr Dogwood	#5	
SO		Symphoricarpos occidentalis / Western Snowberry	#5	



REV.	DATE	DRWN	CHKD	REMARKS
1	1/31/18			

DESIGNED BY:	E. GIBERSON
DRAWN BY:	E. GIBERSON
SHEET CHK'D BY:	M. WILCOX
CROSS CHK'D BY:	M. WILCOX
APPROVED BY:	M. WILCOX
DATE:	05-31-2018

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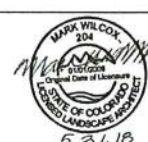
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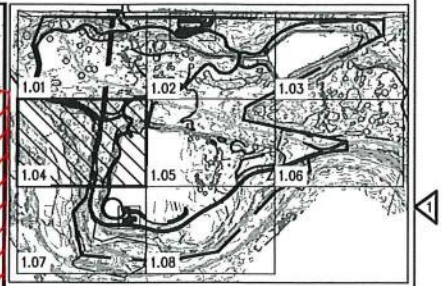
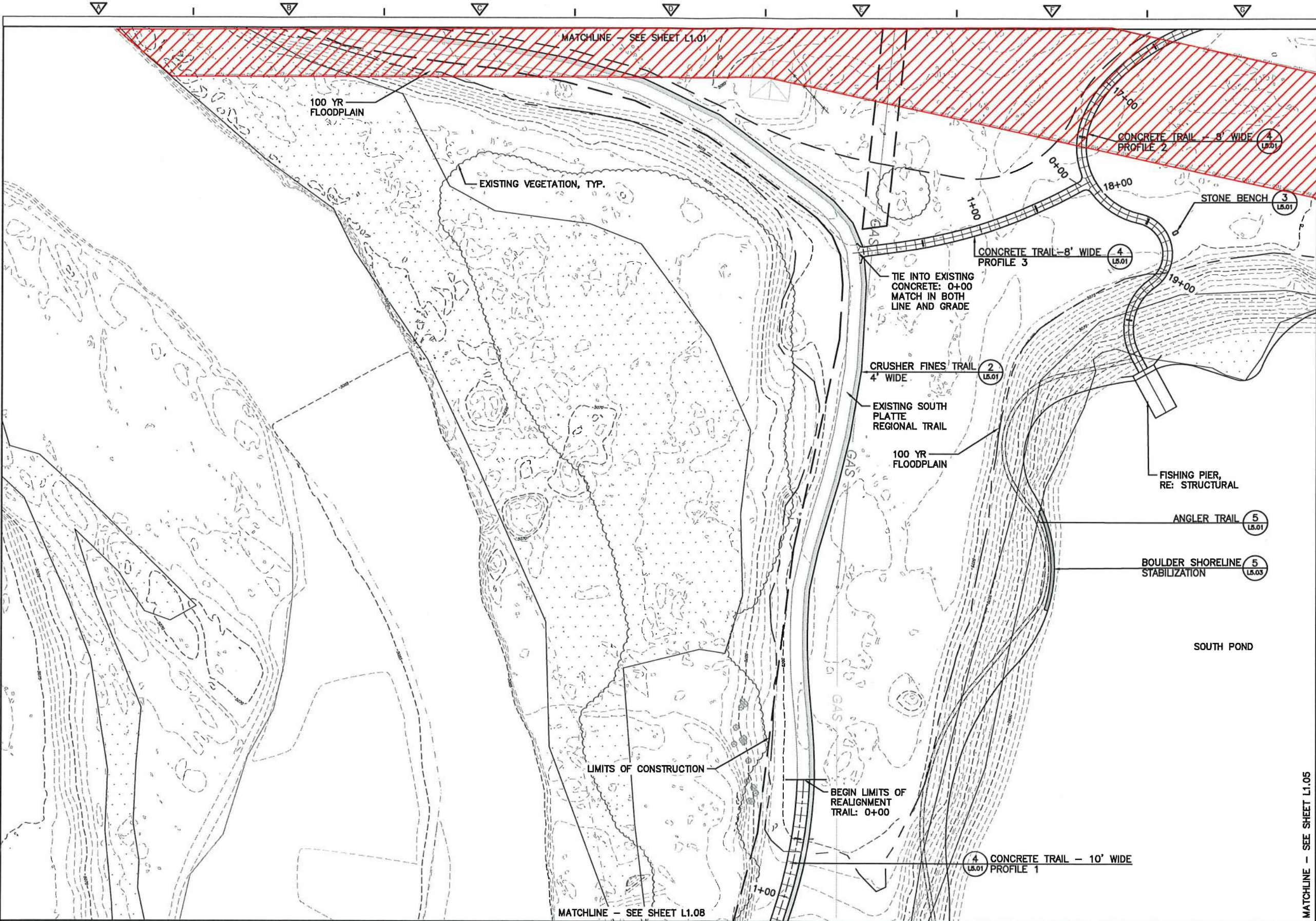


PROJECT NO. 33335-113757  
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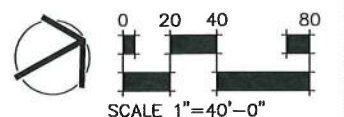
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- LEGEND**
- CRUSHER FINES
  - CONCRETE TRAIL
  - EXISTING CONCRETE TRAIL
  - EXISTING WETLANDS
  - EXISTING FENCE
  - EXISTING VEGETATION
  - BOULDER
  - PRESERVATION AREA
  - EXISTING VEGETATION TO BE REMOVED



REV. NO.	DATE	DRWN	CHKD	REMARKS
1/31/16				COST REDUCTION

DESIGNED BY: E. GIBERSON  
DRAWN BY: E. GIBERSON  
SHEET CHK'D BY: M. WILCOX  
CROSS CHK'D BY: M. WILCOX  
APPROVED BY: M. WILCOX  
DATE: 05-31-2018

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Tel: (303) 383-2300

**DHM DESIGN**

URBAN DRAINAGE AND FLOOD CONTROL DISTRICT  
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MATERIALS AND LAYOUT PLAN

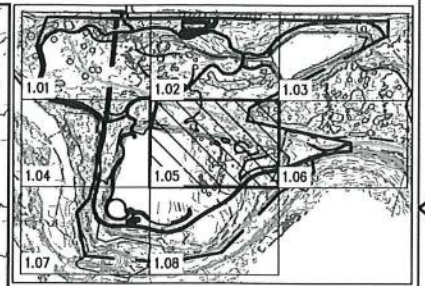
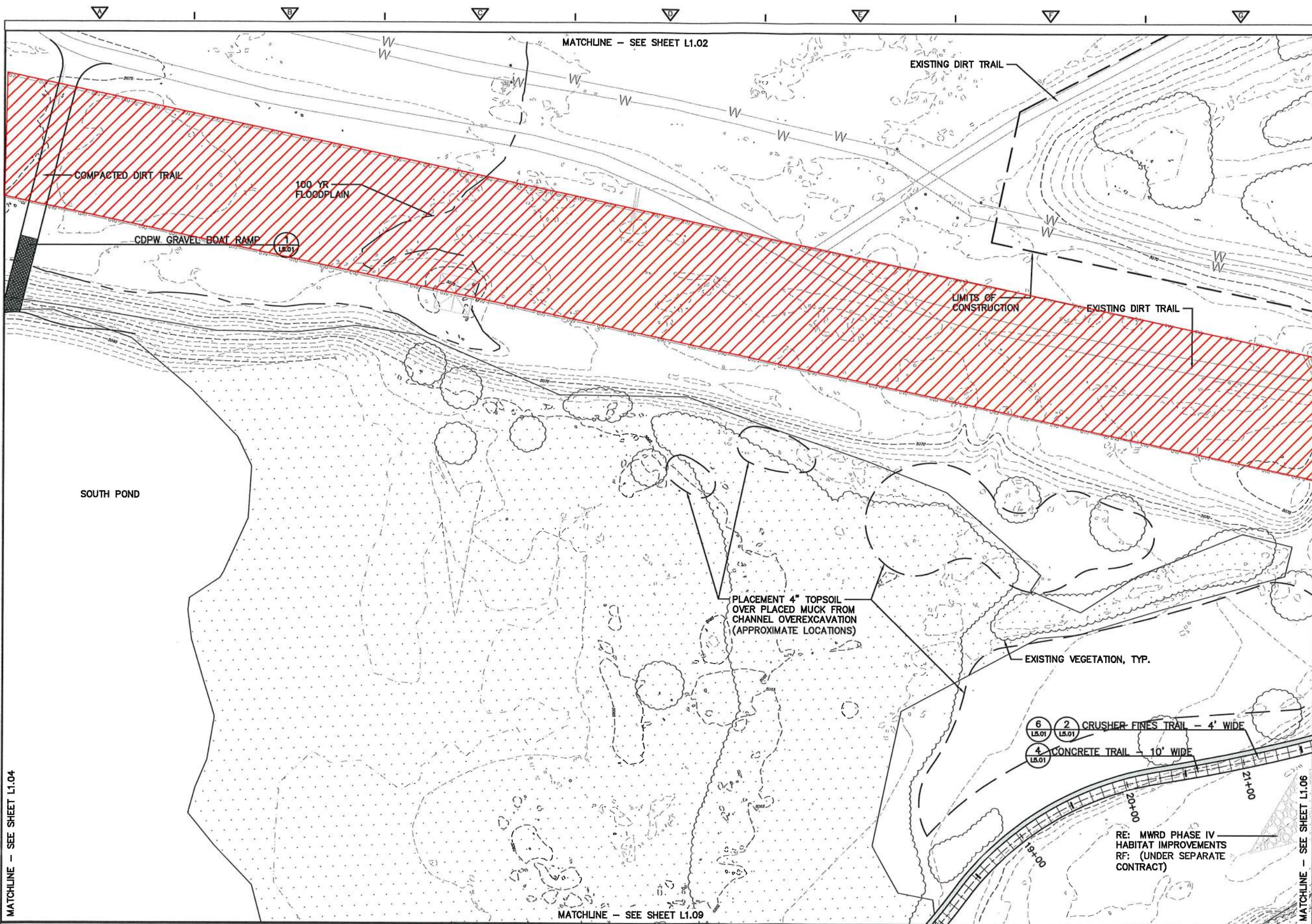
PROJECT NO. 33335-113757  
FILE NAME:  
SHEET NO. L1.04

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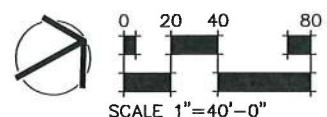


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MATCHLINE - SEE SHEET L1.04



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1	1/31/16			COST REDUCTION

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DRAWN BY: E. GIBERSON  
SHEET CHK'D BY: M. WILCOX  
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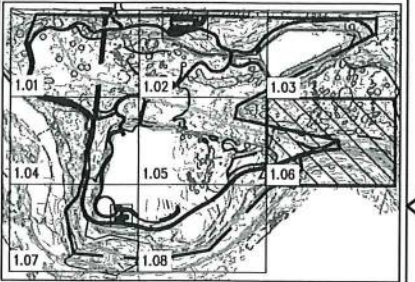
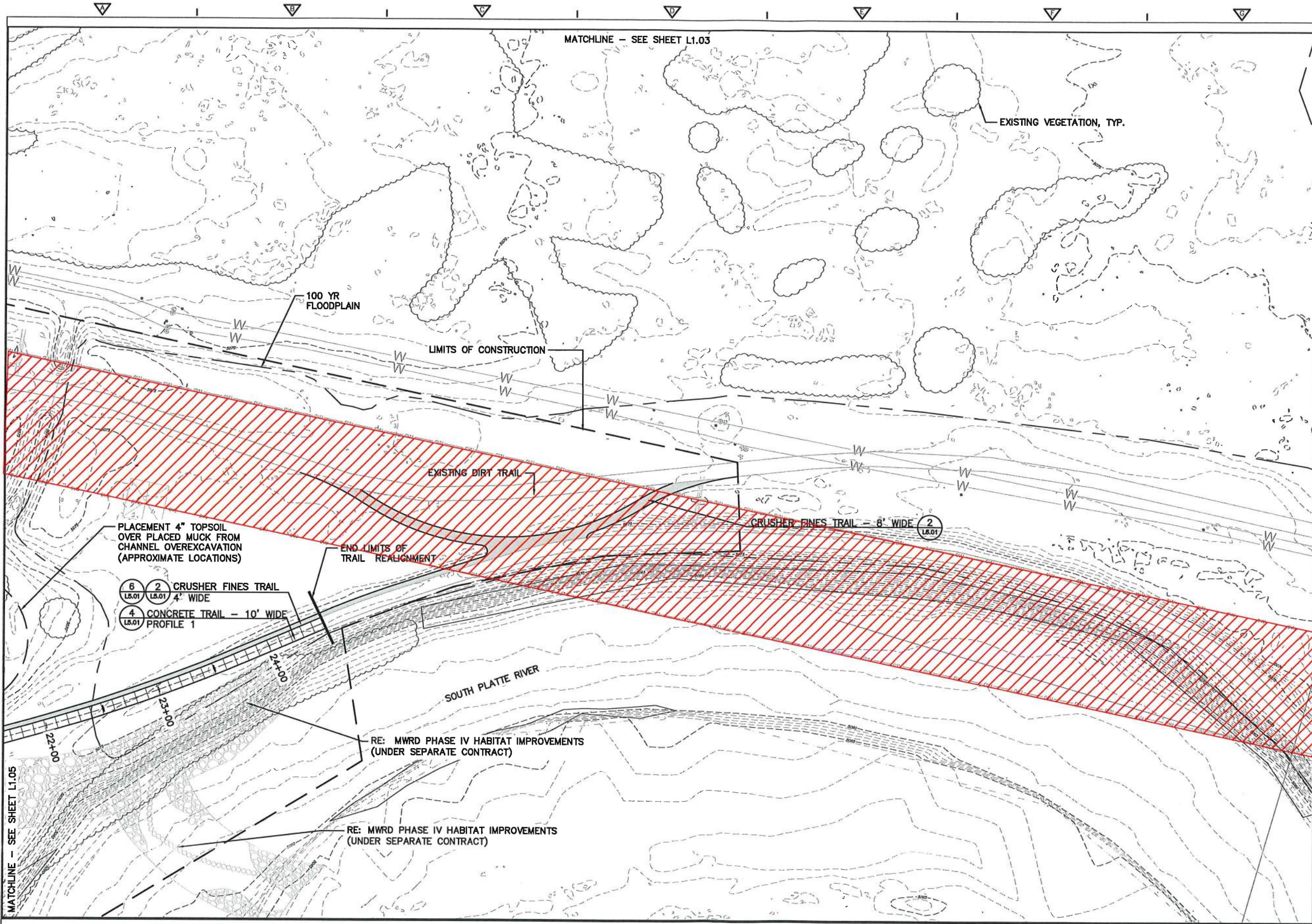
MATERIALS AND LAYOUT PLAN

PROJECT NO. 33335-113757  
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SHEET NO. L1.05

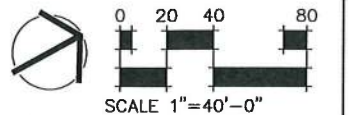
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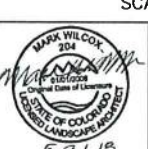
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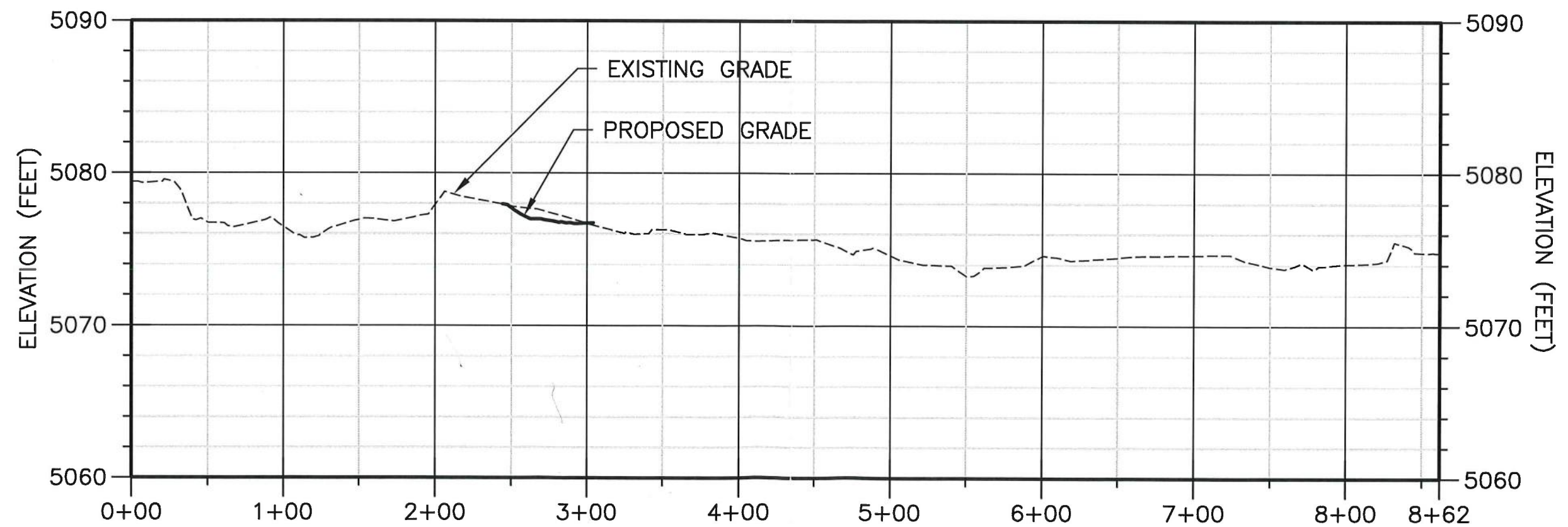
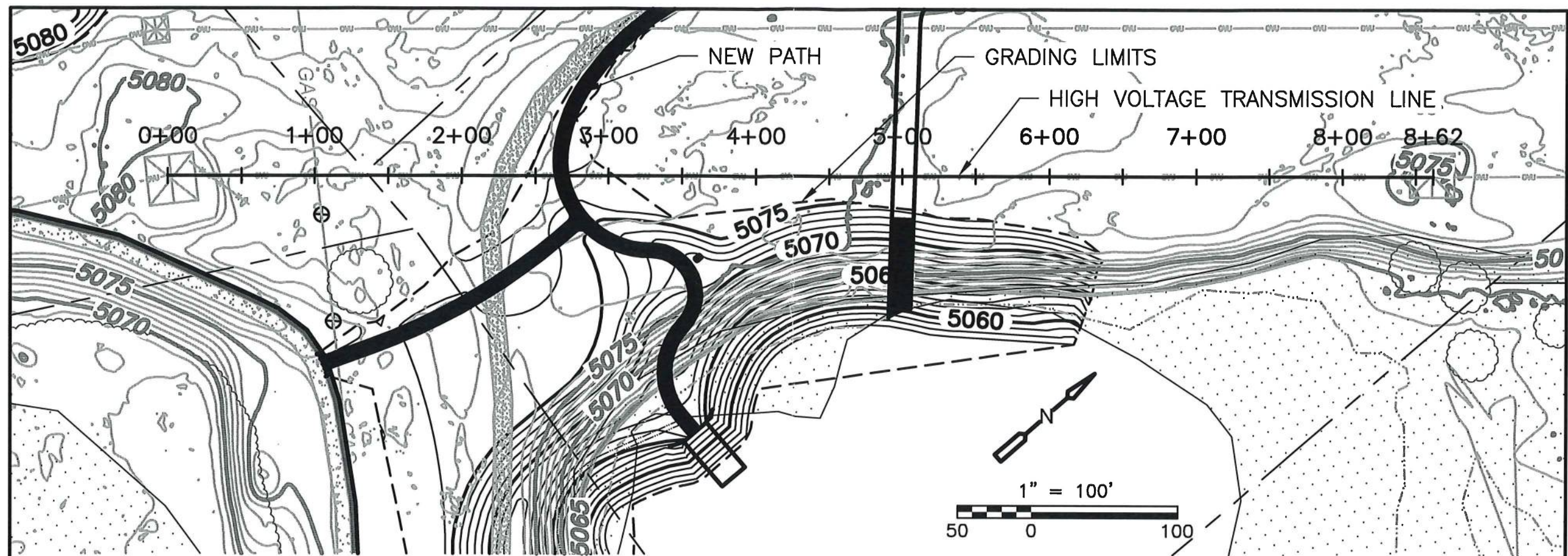
MATERIALS AND LAYOUT PLAN



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L1.06

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**PROFILE ALONG HIGH VOLTAGE TRANSMISSION LINE**