AGGREGATE INDUSTRIES

LYONS QUARRY
RECLAMATION PROJECT

PROJECT VICINITY
SCALE: NTS

INDEX OF DRAWINGS

GENERAL

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00G-02	GENERAL NOTES & LEGEND
00G-03	PLAN OF EXISTING CONDITIONS & SURVEY CONTROL

CIVIL

01C-01	SITE ACCESS & STAGING AREAS
01C-02	FLOODPLAIN SOIL REMOVAL AND SITE GRADING PLAN
01C-03	FINAL GRADING PROFILE, SECTION, & DETAILS
01C-04	DRAINAGE & EROSION CONTROL PLAN
01C-05	SCOUR BERM SECTION & DETAILS
01C-06	DRAINAGE & EROSION CONTROL DETAILS
01C-07	DRAINAGE & EROSION CONTROL DETAILS
01C-08	OVERALL RECLAMATION PLAN & DETAILS

C:\pwworking\central01\d2130103\00G-01.dwg 06/02/23 10:56am RNALLEY

ISSUE	DATE	DESCRIPTION
REV 2	6/02/2023	FINAL DESIGN
REV 1	6/29/2021	FINAL DESIGN
100%	4/16/2021	FINAL DESIGN
90%	2/12/2021	PRE-FINAL DESIGN
60%	1/22/2021	INTERMEDIATE DESIGN PACKAGE

PROJECT MANAGER TRAVIS SNYDER
DRAWN BY R. NALLEY
PROJECT NUMBER 10092468

AGGREGATE INDUSTRIES
LYONS QUARRY
RECLAMATION PROJECT

GENERAL
COVER &
DRAWING INDEX

FILENAME 00G-01.dwg
SCALE AS NOTED
SHEET 00G-01

MATERIALS IN PLAN/SECTION

- ASPHALT (PLAN OR SMALL-SCALE SECTION)
- CONCRETE (PLAN AND/OR SECTION)
- DEMOLITION (PLAN AND/OR SECTION)
- EARTH (SECTION)
- BEDROCK
- GRANULAR FILL (SECTION)
- GROUT (SECTION)
- METAL (SECTION)
- PLYWOOD (LARGE-SCALE SECTION)
- PRECAST CONCRETE (PLAN AND/OR SECTION)
- RIPRAP (PLAN AND/OR SECTION)
- HYDROMULCH
- SAND (SECTION)
- ROCKFALL DEBRIS/MUCK

GENERAL SYMBOLOGY

ARROW INDICATES DIRECTION OF PLAN NORTH

N

PLAN

TITLE

PLAN TITLE

SECTION LETTER

FLAG INDICATES DIRECTION OF SECTION CUT

X

XXX

SHEET WHERE SECTION IS LOCATED

SECTION CUT MARKER

SECTION LETTER

SECTION

TITLE

X

XXX

SHEET WHERE SECTION VIEW IS FIRST CUT *

SECTION TITLE

DETAIL NUMBER

#

XXX

SHEET WHERE DETAIL IS LOCATED *

DETAIL MARKER

FOR REFERENCING DETAILS INCLUDED IN DRAWING SET.

XXXXXXXXX

DETAIL MARKER

FOR REFERENCING DETAILS BOUND IN SPECIFICATIONS OR SEPARATE VOLUME.

DETAIL NUMBER

DETAIL

TITLE

#

XXX

SHEET WHERE DETAIL WAS CALLED OUT *

DETAIL TITLE

ELEVATION NUMBER

ARROW INDICATES POINT OF VIEW

X

XXX

SHEET WHERE ELEVATION IS LOCATED *

SINGLE ELEVATION OR PHOTO MARKER

A

B

C

D

ELEVATION NUMBER

ARROW INDICATES POINT OF VIEW ELEVATION

X

XXX

INDICATES SHEET WHERE ELEVATION IS LOCATED

MULTIPLE ELEVATION OR PHOTO MARKER

ELEVATION IDENTIFICATION NUMBER

ELEVATION

TITLE

X

XXX

SHEET WHERE POINT OF VIEW MARKER CAN BE FOUND *

ELEVATION TITLE

* EXCEPTIONS WHERE THE SHEET NUMBER IS REPLACED BY A DASH (-).
1) FOR COMMON DETAILS, SECTIONS, ELEVATIONS OR DETAILS THAT ARE CUT OR CALLED OUT ON MULTIPLE SHEETS.
2) SECTIONS, ELEVATIONS OR DETAILS THAT ARE LOCATED ON THE SAME SHEET THEY ARE CUT OR CALLED OUT ON.

- MINING
- US HIGHWAY SYMBOL (XXX)
- INTERSTATE HIGHWAY SYMBOL (XXX)
- CENTERLINE
- PROPERTY LINE
- EMBANKMENT SLOPE (CUT)
- EMBANKMENT SLOPE (FILL)
- SOIL SURFACE
- BEDROCK SURFACE
- BREAKLINE
- WATER LEVEL IN SECTION/PROFILE
- CULVERT
- BRIDGE
- SEDIMENT CONTROL LOG
- STRAW BALE BARRIER
- SLOPE LABEL (2 / 1)
- DIMENSION (CIVIL - EARTHWORKS) (1.5')
- DIMENSION (CIVIL - CONCRETE STRUCTURES) (1'-6")
- CONTROL POINT

60 0 60 120

SCALE IN FEET

BARSCALE

GENERAL LINE SYMBOLOGY

- EXISTING CONTOUR (MINOR)
- EXISTING CONTOUR W/ELEVATION (MAJOR) (25)
- NEW CONTOUR (MINOR)
- NEW CONTOUR (MAJOR) (25)
- ROADS (UNIMPROVED)
- ROADS (PAVED)
- CENTERLINE
- HIDDEN LINE
- PHANTOM LINE (NOT IN SECTION)
- PROPERTY LINE
- MATCH LINE
- RAILROAD
- WATERLINE/SURFACE DRAINAGE
- HDPE / LDPE LINER
- GEOTEXTILE
- GEOCOMPOSITE
- POWER LINE ALIGNMENT
- GAS LINE ALIGNMENT
- WATER LINE ALIGNMENT
- STORM WATER LINE ALIGNMENT
- FENCELINE (X)
- LIMITS OF DISTURBED AREA (LDA)
- EARTH DIKE & DRAINAGE SWALE
- SILT FENCE (SF)

GENERAL NOTES:

1. THIS IS A STANDARD SHEET SHOWING COMMON SYMBOLOGY. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.
2. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.

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ISSUE	DATE	DESCRIPTION
REV 1	6/02/2023	FINAL DESIGN
100%	4/16/2021	FINAL DESIGN
90%	2/12/2021	PRE-FINAL DESIGN
60%	1/22/2021	INTERMEDIATE DESIGN PACKAGE

PROJECT MANAGER TRAVIS SNYDER

DRAWN BY R. NALLEY

PROJECT NUMBER 10092468

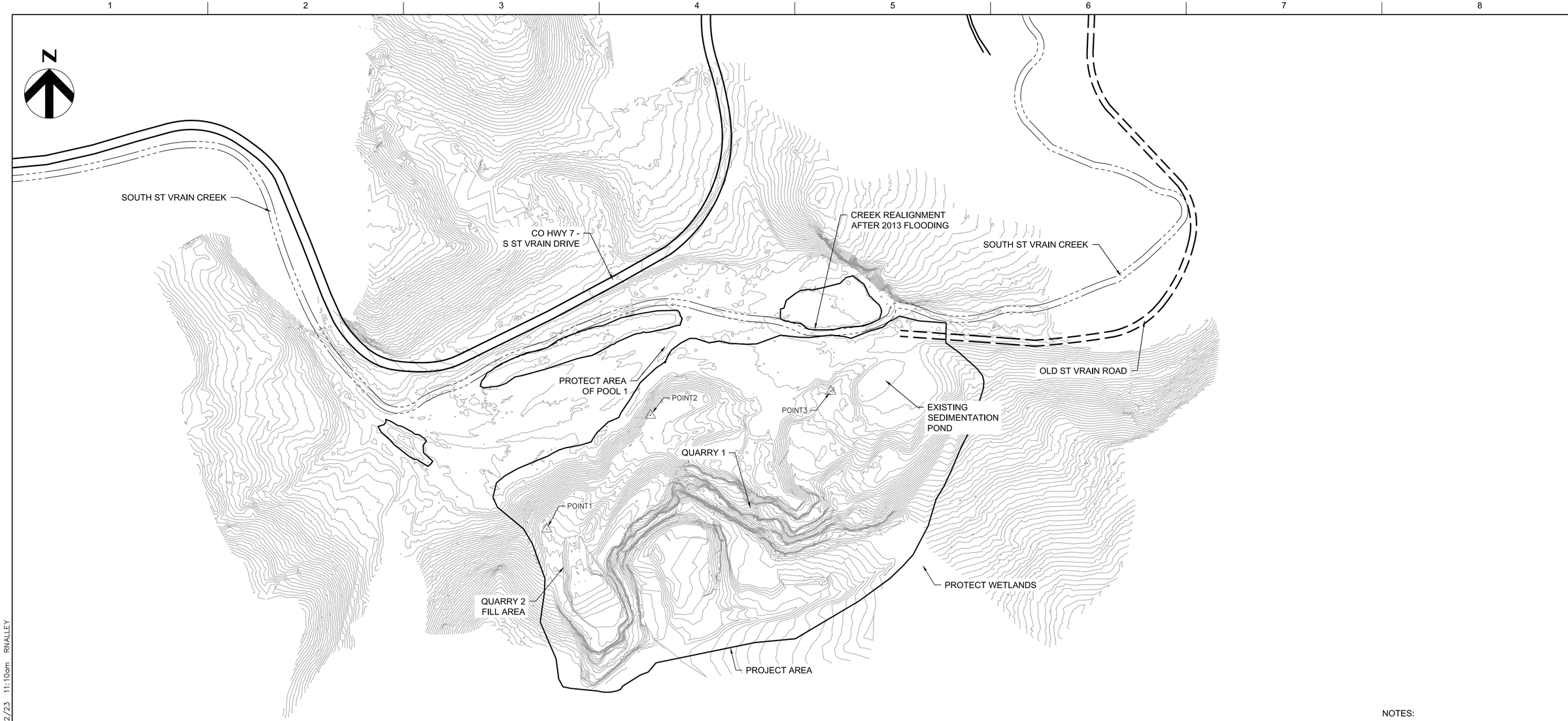
AGGREGATE INDUSTRIES
LYONS QUARRY
RECLAMATION PROJECT

GENERAL NOTES & LEGEND

FILENAME 00G-02.dwg

SCALE AS NOTED

SHEET **00G-02**



NOTES:

1. AREA OF POOL 1 IS DEPICTED IN LETTER FROM BOULDER COUNTY PARKS AND OPEN SPACE TO COLORADO DIVISION OF RECLAMATION MINING AND SAFETY DATED SEPTEMBER 6, 2016, REGARDING NORTHERN LEOPARD FROGS AND BAT SPECIES: HISTORIC AND CURRENT USE OF RETENTION POND AND POOLS AT AGGREGATE MINE SITE ON HAUL II.

SURVEY CONTROL POINT TABLE

POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1315538.88	3055208.16	5655.33	POINT1
2	1315997.87	3055627.15	5582.42	POINT2
3	1316094.89	3056355.29	5539.47	POINT3

200 100 0 200 400
SCALE IN FEET

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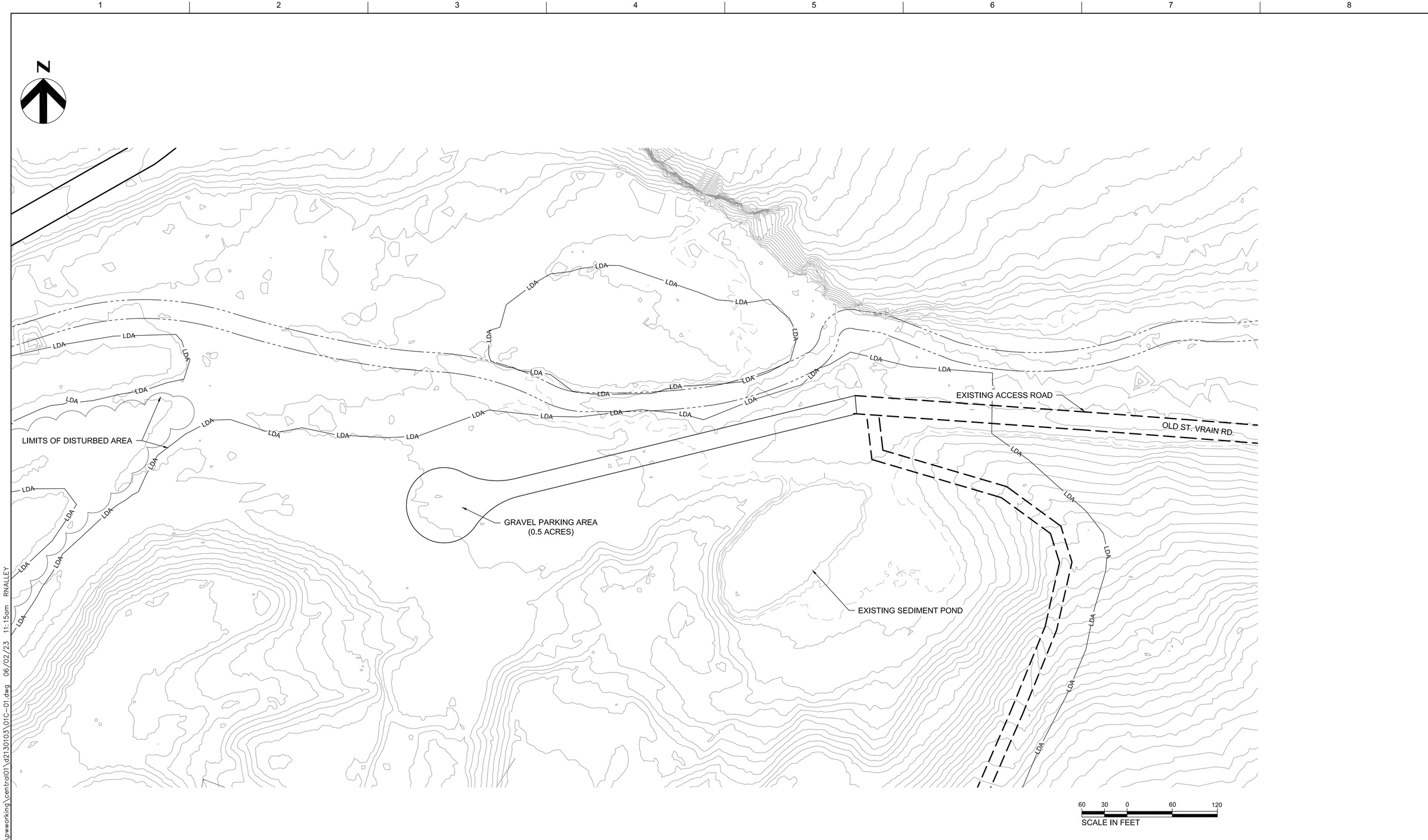
ISSUE	DATE	DESCRIPTION
100%	4/16/2021	FINAL DESIGN
90%	2/12/2021	PRE-FINAL DESIGN
60%	1/22/2021	INTERMEDIATE DESIGN PACKAGE

PROJECT MANAGER TRAVIS SNYDER
DRAWN BY R. NALLEY
PROJECT NUMBER 10092468

AGGREGATE INDUSTRIES
LYONS QUARRY
RECLAMATION PROJECT

GENERAL
PLAN OF EXISTING CONDITIONS
& SURVEY CONTROL

FILENAME 00G-03.dwg
SCALE AS NOTED
SHEET **00G-03**



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ISSUE	DATE	DESCRIPTION
100%	4/16/2021	FINAL DESIGN
90%	2/12/2021	PRE-FINAL DESIGN
60%	01/22/2021	INTERMEDIATE DESIGN PACKAGE

PROJECT MANAGER	TRAVIS SNYDER
DRAWN BY	R. NALLEY
PROJECT NUMBER	10092468

AGGREGATE INDUSTRIES
LYONS QUARRY
RECLAMATION PROJECT

CIVIL
SITE ACCESS &
STAGING AREAS

FILENAME	01C-01.dwg
SCALE	AS NOTED

SHEET
01C-01

QUANTITIES TABLE

ITEM	CUT (CU. YD.)	FILL (CU. YD.)
SLOPE GRADING	245,080	125,300
CATCHMENT BERM	-	14,278
NORTHWEST BERM	-	21,133
SEDIMENTATION POND	-	2,222
SCOUR BERM	-	19,033
FLOODPLAIN SOIL REMOVAL	23,300	
FLOODPLAIN SOIL EXPORT	10,000	-
NET CUT/FILL: 96,414 CU. YD. (CUT)		

N

LEGEND

- PROPOSED SCOUR BERM
- PROPOSED DRAINAGE CHANNEL
- PROPOSED FILL SLOPE
- EXCESS SPOIL MATERIAL
- PROPOSED MAJOR CONTOUR (5700)
- PROPOSED MINOR CONTOUR
- LIMITS OF DISTURBANCE
- PROPOSED FENCE
- PROPOSED GATE
- PROPOSED CULVERT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR

NOTES:

1. PERFORM ROCK SCALING IN ACCORDANCE WITH GROUND CONTROL SPECIFICATIONS (SECTION 31 72 16).
2. SOIL RIPRAP BACKFILL SHALL BE PLACED IN HORIZONTAL LIFTS NOT EXCEEDING 12 INCHES IN THICKNESS, DEPENDING OF THE FILL MATERIALS.
3. FINAL GRADING OF ALL FILL SLOPES, BENCHES, CREST AREAS, AND TOE AREAS SHOULD ENSURE THAT WATER IS NOT ALLOWED TO POND ON OR ADJACENT TO THE FILL SLOPES.

100 50 0 100 200
SCALE IN FEET

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ISSUE	DATE	DESCRIPTION
REV 6	06/02/2023	FINAL DESIGN
REV 5	03/30/2023	FINAL DESIGN
REV 4	02/02/2023	FINAL DESIGN
REV 3	02/04/2022	FINAL DESIGN
REV 2	11/04/2021	FINAL DESIGN
REV 1	06/29/2021	FINAL DESIGN
100%	4/16/2021	FINAL DESIGN
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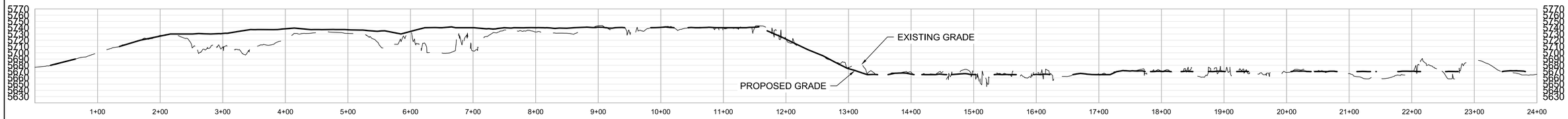
60%	01/22/2021	INTERMEDIATE DESIGN PACKAGE

PROJECT MANAGER TRAVIS SNYDER
DRAWN BY R. NALLEY
PROJECT NUMBER 10092468

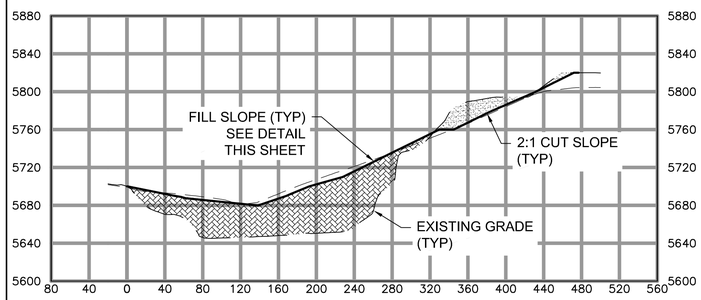
AGGREGATE INDUSTRIES
LYONS QUARRY
RECLAMATION PROJECT

CIVIL
FLOODPLAIN SOIL REMOVAL AND SITE GRADING PLAN

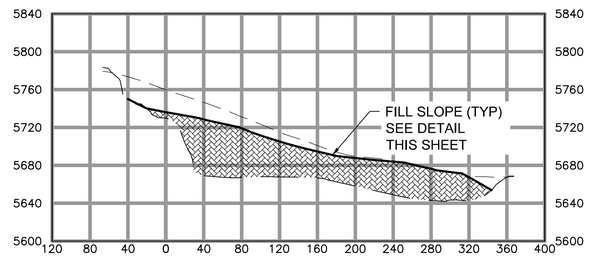
FILENAME 01C-02.dwg
SCALE AS NOTED
SHEET **01C-02**



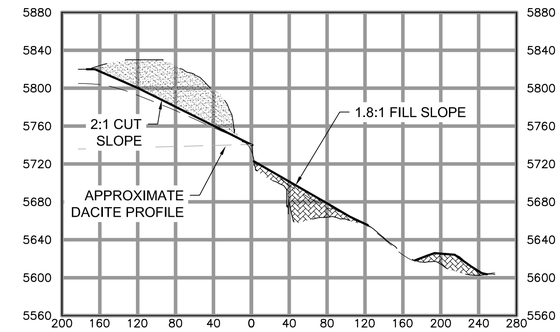
STATION
EXCAVATION BASE PROFILE
1" = 80' 01C-02



STATION 1+00
SECTION A 01C-02
1" = 80'

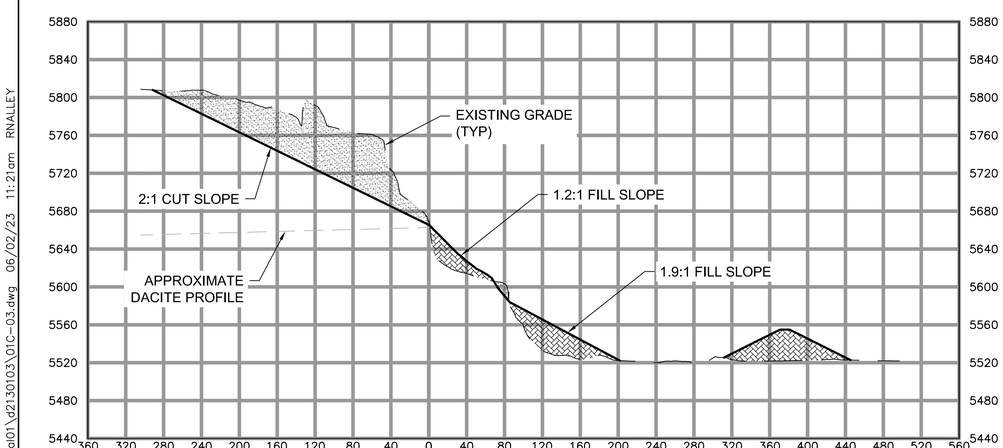


STATION 5+24
SECTION B 01C-02
1" = 80'

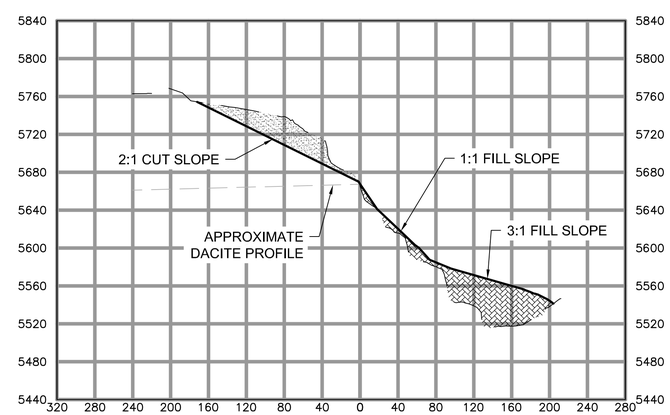


STATION 10+75
SECTION C 01C-02
1" = 80'

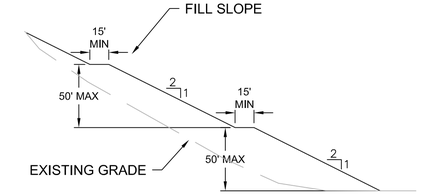
STATION
SLOPE FILL PROFILE
1" = 80' 01C-02



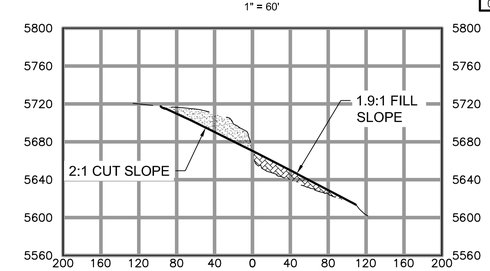
STATION 16+00
SECTION D 01C-02
1" = 80'



STATION 19+50
SECTION E 01C-02
1" = 80'



FILL SLOPE DETAIL 1 01C-03
1" = 60'



STATION 22+00
SECTION F 01C-02
1" = 80'

80 40 0 80 160
SCALE IN FEET

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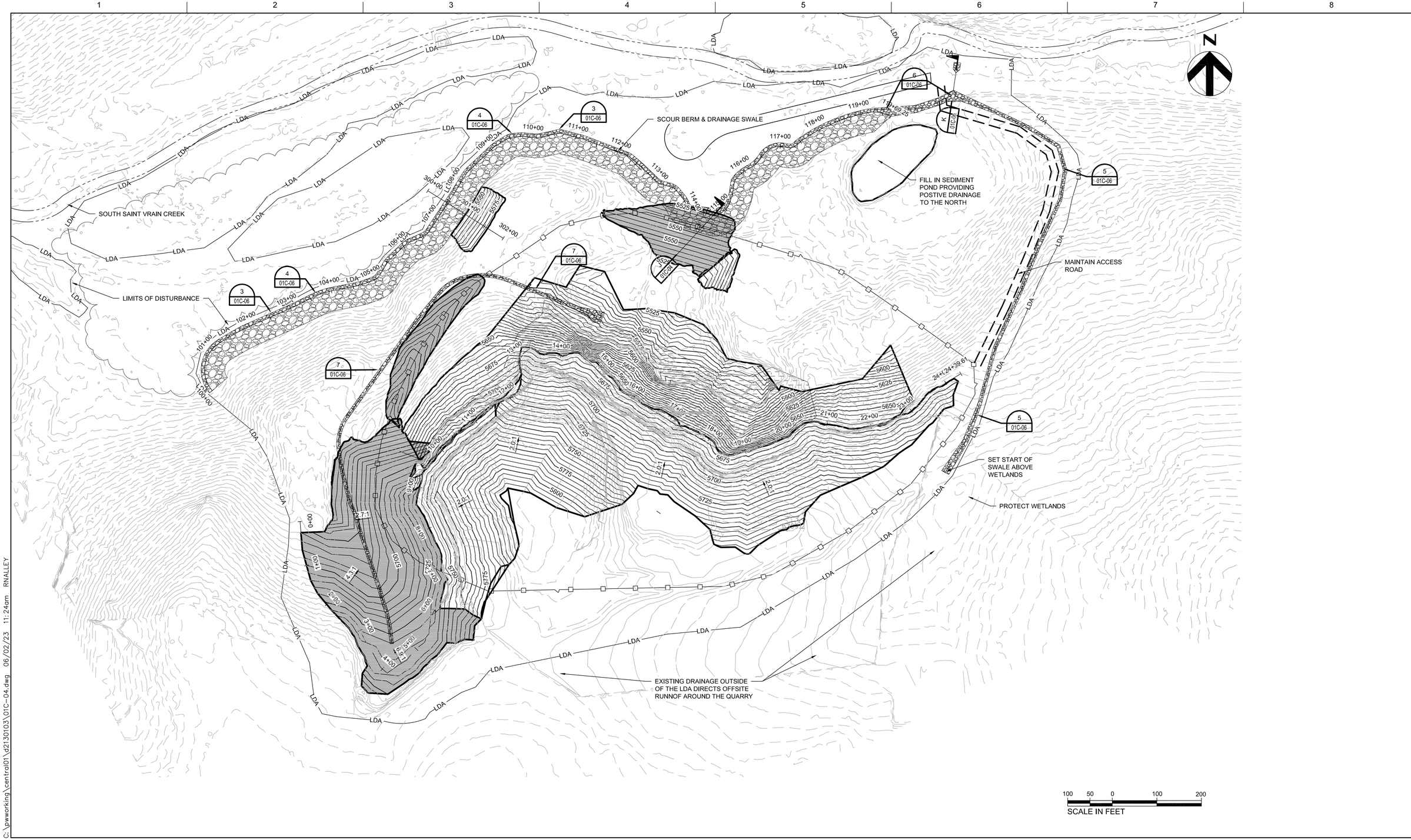
ISSUE	DATE	DESCRIPTION
REV 3	06/02/2023	FINAL DESIGN
REV 2	03/30/2023	FINAL DESIGN
REV 1	06/29/2021	FINAL DESIGN
100%	4/16/2021	FINAL DESIGN
90%	2/12/2021	PRE-FINAL DESIGN
60%	01/22/2021	INTERMEDIATE DESIGN PACKAGE

PROJECT MANAGER	TRAVIS SNYDER
DRAWN BY	R. NALLEY
PROJECT NUMBER	10092468

AGGREGATE INDUSTRIES
LYONS QUARRY
RECLAMATION PROJECT

CIVIL
FINAL GRADING PROFILE, SECTION, & DETAILS

FILENAME	01C-03.dwg	SHEET	01C-03
SCALE	AS NOTED		



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ISSUE	DATE	DESCRIPTION
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REV 4	04/05/2023	FINAL DESIGN
REV 3	02/04/2022	FINAL DESIGN
REV 2	11/04/2022	FINAL DESIGN
REV 1	06/29/2021	FINAL DESIGN
100%	4/16/2021	FINAL DESIGN
90%	2/12/2021	PRE-FINAL DESIGN
60%	01/22/2021	INTERMEDIATE DESIGN PACKAGE

PROJECT MANAGER	TRAVIS SNYDER
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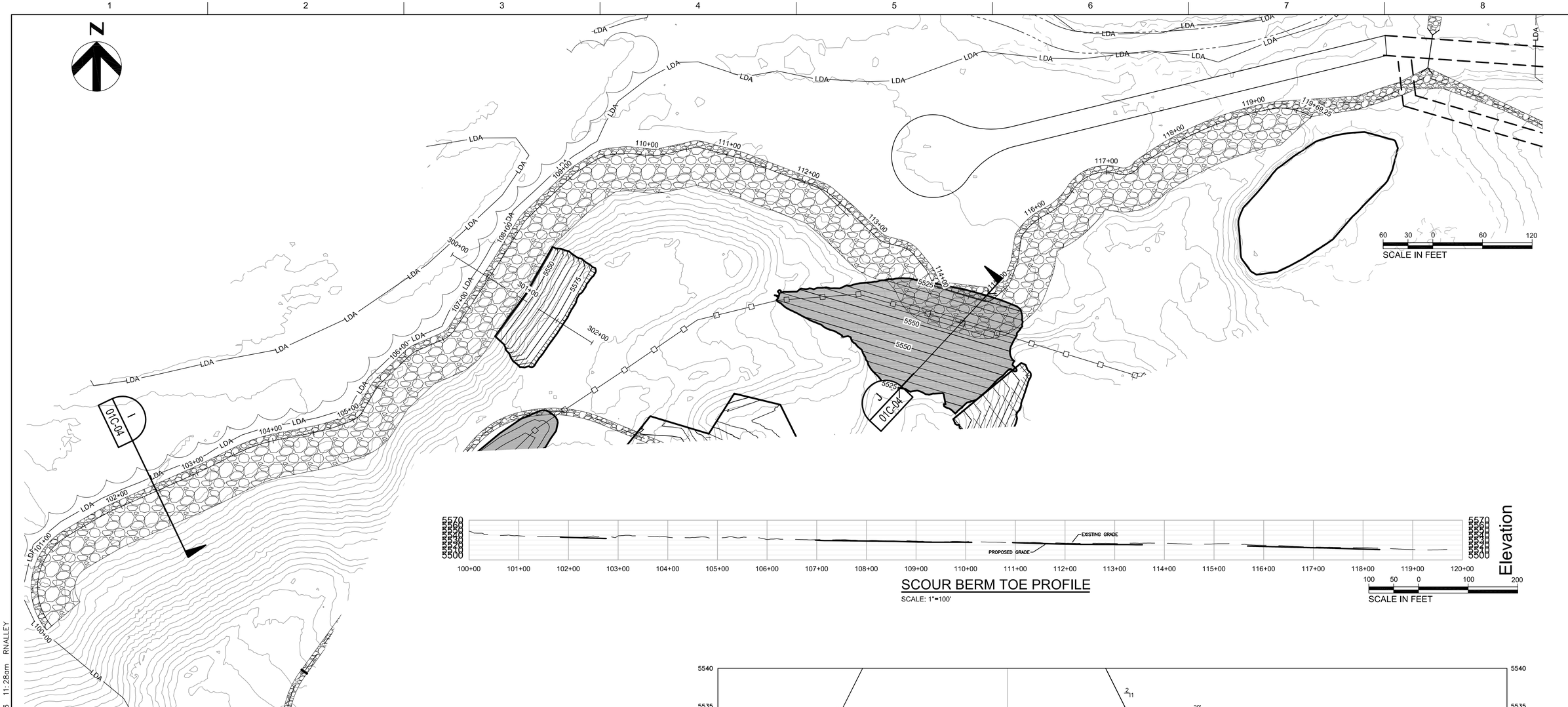
AGGREGATE INDUSTRIES
LYONS QUARRY
RECLAMATION PROJECT

CIVIL
DRAINAGE & EROSION CONTROL PLAN

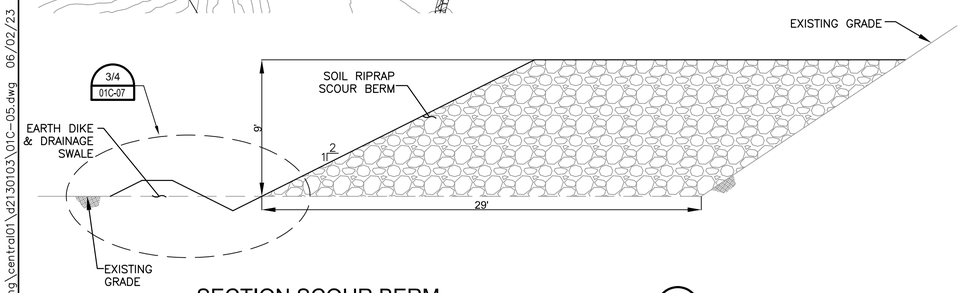
FILENAME	01C-04.dwg
SCALE	AS NOTED

SHEET **01C-04**



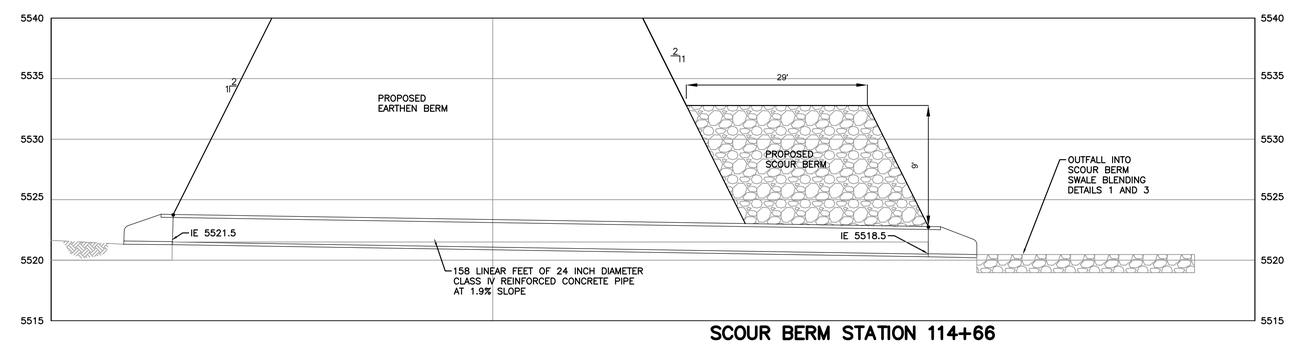
SCOUR BERM TOE PROFILE

SCALE: 1"=100'



SECTION SCOUR BERM

I
01C-04



SCOUR BERM STATION 114+66

SECTION STORM DRAIN PIPE

J
01C-04

C:\pwworking\central01\d2130103\01C-05.dwg 06/02/23 11:28am RNALLEY

ISSUE	DATE	DESCRIPTION
REV 4	06/02/2023	FINAL DESIGN
REV 3	02/04/2022	FINAL DESIGN
REV 2	11/04/2022	FINAL DESIGN
REV 1	06/29/2021	FINAL DESIGN
100%	4/16/2021	FINAL DESIGN
90%	2/12/2021	PRE-FINAL DESIGN
60%	01/22/2021	INTERMEDIATE DESIGN PACKAGE

PROJECT MANAGER TRAVIS SNYDER

DRAWN BY R. NALLEY

PROJECT NUMBER 10092468

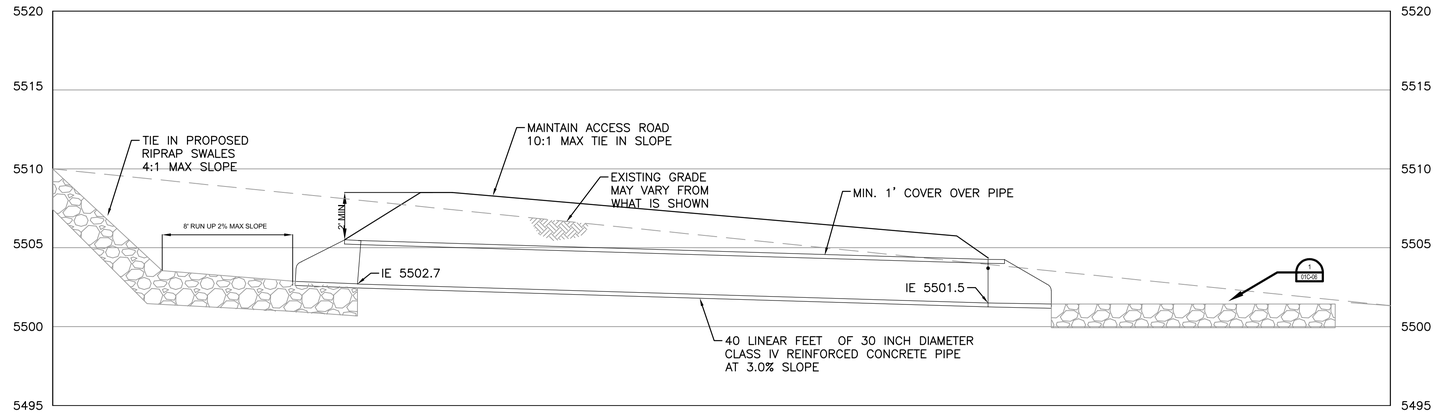
AGGREGATE INDUSTRIES
LYONS QUARRY
RECLAMATION PROJECT

CIVIL
SCOUR BERM
SECTION & DETAILS

FILENAME 01C-05.dwg

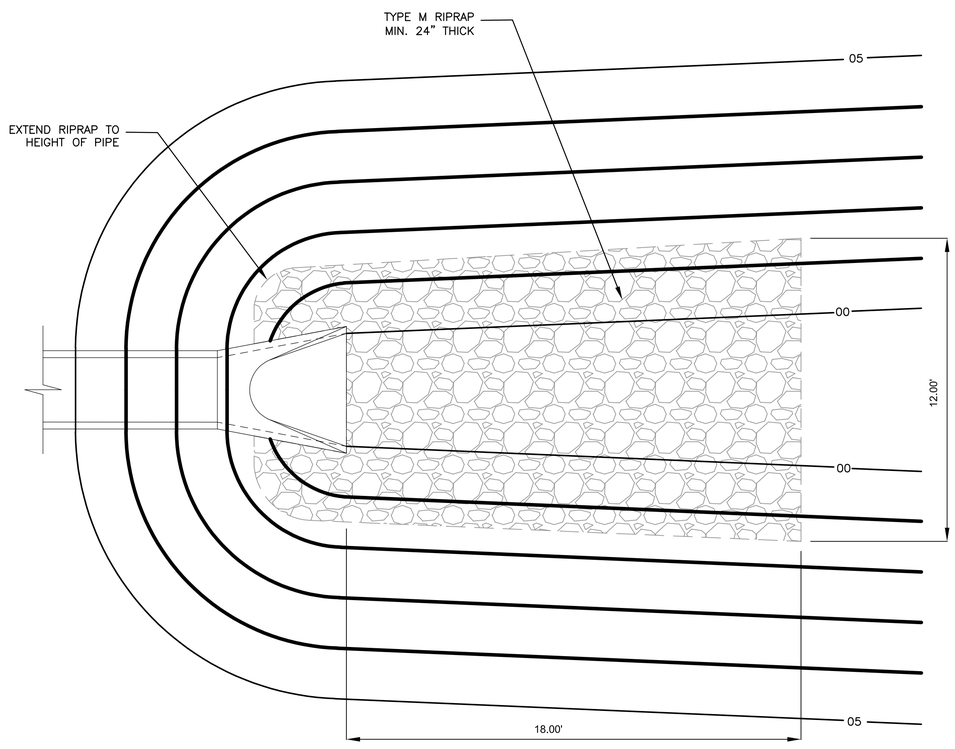
SCALE AS NOTED

SHEET
01C-05



SECTION STORM DRAIN PIPE

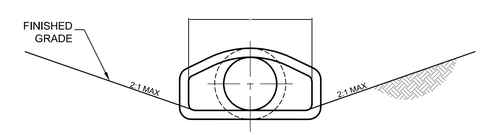
K
01C-05



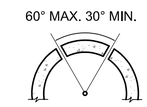
DETAIL

STORM DRAIN OUTFALL PROTECTION

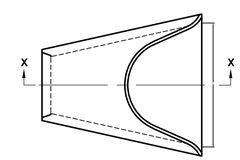
1
01C-04/06



END VIEW

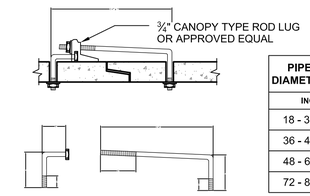


¾" GALVANIZED ANCHOR BOLTS, NUTS, AND WASHERS, MILD STEEL, ASTM A 307.
ROD LUG SHALL BE GALVANIZED OR APPROVED EQUAL.



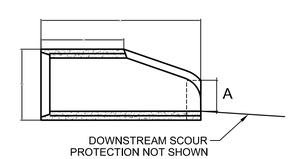
PLAN

PIPE I.D.	DIMENSIONS			
	A	C	L	E
	INCHES			
18	10	48	78	36
24	12	48	78	48
30	14	36	96	60
36	18	36	96	72
42	24	36	96	78
48	28	24	96	84
54	USE HEADWALL / WINGWALL			
60				
72				



CONCRETE JOINT FASTENER
(TWO PER JOINT)
NTS

PIPE DIAMETER	F
INCHES	
18 - 30	5
36 - 42	6
48 - 60	7
72 - 84	9



SECTION X-X

GENERAL NOTES:

1. DIMENSIONS OF END SECTIONS MAY VARY SLIGHTLY FROM THOSE SHOWN ON THE TABLES DUE TO DIFFERENT MANUFACTURERS' CONFIGURATIONS.
2. CONCRETE END SECTIONS SHALL BE FURNISHED WITH TONGUE OR GROOVE AS REQUIRED.
3. THE INSIDE CONFIGURATION AND THE JOINT OF CONCRETE END SECTION AND PIPE SHALL MATCH.
4. CONCRETE PIPE JOINT FASTENERS SHALL BE INSTALLED SO THAT A MINIMUM OF 20 LINEAR FEET OF THE OUTLET END OF THE PIPE ARE MECHANICALLY LOCKED TOGETHER. END SECTION LENGTHS WHEN USED, SHALL BE INCLUDED IN THE 20 LF REQUIREMENT.
5. PLASTIC END SECTIONS SHALL NOT BE USED.

DETAIL

REINFORCED CONCRETE PIPE END SECTION
NOT TO SCALE

2
01C-04/06

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ISSUE	DATE	DESCRIPTION
REV 3	06/02/2023	FINAL DESIGN
REV 2	07/26/2021	FINAL DESIGN
REV 1	06/29/2021	FINAL DESIGN
100%	4/16/2021	FINAL DESIGN
90%	2/12/2021	PRE-FINAL DESIGN
60%	01/22/2021	INTERMEDIATE DESIGN PACKAGE

PROJECT MANAGER TRAVIS SNYDER

DRAWN BY J. MCANALLY

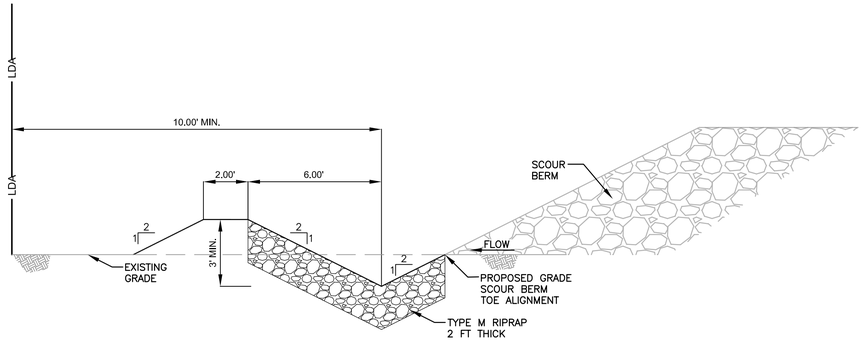
PROJECT NUMBER 10092468

AGGREGATE INDUSTRIES
LYONS QUARRY
RECLAMATION PROJECT

CIVIL
DRAINAGE & EROSION
CONTROL DETAILS

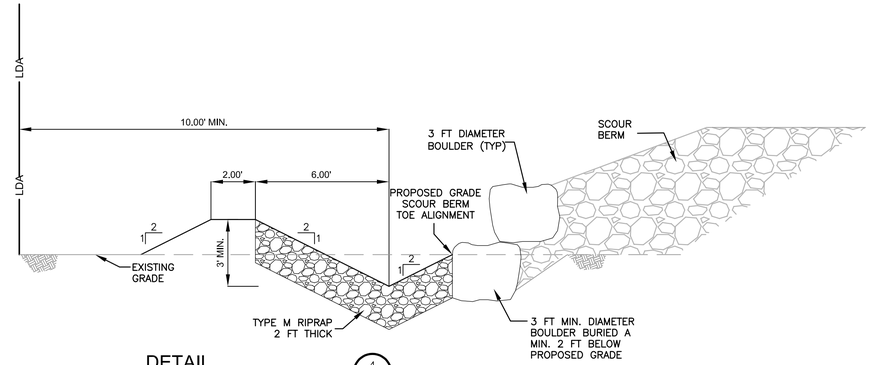
FILENAME 01C-06.dwg
SCALE 1"=3'

SHEET
01C-06



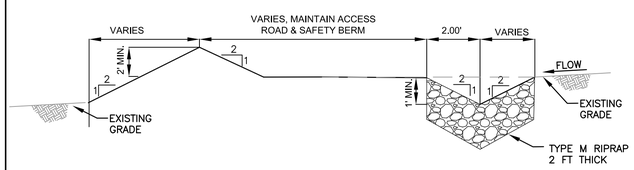
DETAIL 3 / 01C-04

EARTH DIKE & DRAINAGE SWALE
STA 100+00 TO STA 103+00
AND STA 110+00 TO STA 119+69



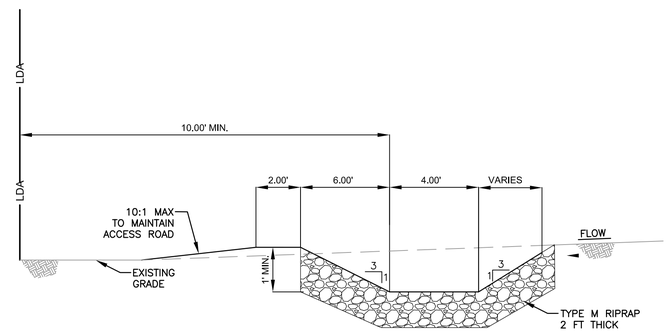
DETAIL 4 / 01C-04

EARTH DIKE & DRAINAGE SWALE
STA 103+00 TO STA 110+00



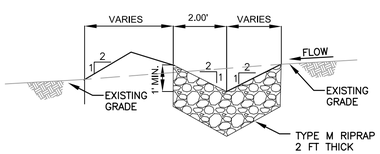
DETAIL 5 / 01C-04

EARTH DIKE & DRAINAGE SWALE
(DIVERSION AROUND DISTURBED AREAS)



DETAIL 6 / 01C-05

EARTH DIKE & DRAINAGE SWALE
BETWEEN SCOUR BERM AND CULVERT



DETAIL 7 / 01C-04

DRAINAGE SWALE
(DIVERSION AROUND DISTURBED AREAS)

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ISSUE	DATE	DESCRIPTION
REV 5	06/02/2023	FINAL DESIGN
REV 4	04/05/2023	FINAL DESIGN
REV 3	02/04/2022	FINAL DESIGN
REV 2	11/04/2022	FINAL DESIGN
REV 1	06/29/2021	FINAL DESIGN
100%	4/16/2021	FINAL DESIGN
90%	2/12/2021	PRE-FINAL DESIGN
60%	01/22/2021	INTERMEDIATE DESIGN PACKAGE

PROJECT MANAGER	TRAVIS SNYDER
DRAWN BY	J. MCANALLY
PROJECT NUMBER	10092468

AGGREGATE INDUSTRIES
LYONS QUARRY
RECLAMATION PROJECT

CIVIL
DRAINAGE & EROSION CONTROL DETAILS

FILENAME 01C-07.dwg
SCALE NTS
SHEET **01C-07**

SLOPE	RECLAMATION DESCRIPTION	SYMBOL	PLAN AREA
VARIES	MULCH		24.3 ACRES
2.0H:1V	HYDRO MULCH		11.5 ACRES
VARIES	TYPE M RIPRAP		1.0 ACRES

N

100 50 0 100 200
SCALE IN FEET

NOTES:
1. PERMIT APPLICANT: AGGREGATE INDUSTRIES-WCR, INC.
2. PERMIT BOUNDARY FROM CURRENT PERMIT EXHIBIT F DATED SEPT. 2002.
3. AREAS OF RE-VEGETATION AS SHOWN ARE APPROXIMATE. RE-VEGETATION AREAS WILL BE BASED OFF OF FINAL TOPOGRAPHIC SURVEY.

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ISSUE	DATE	DESCRIPTION
REV 5	06/02/2023	FINAL DESIGN
REV 4	03/30/2023	FINAL DESIGN
REV 3	02/04/2022	FINAL DESIGN
REV 2	11/04/2022	FINAL DESIGN
REV 1	06/29/2021	FINAL DESIGN
100%	4/16/2021	FINAL DESIGN
90%	2/12/2021	PRE-FINAL DESIGN
60%	01/22/2021	INTERMEDIATE DESIGN PACKAGE

PROJECT MANAGER TRAVIS SNYDER
DRAWN BY R. NALLEY
PROJECT NUMBER 10092468

AGGREGATE INDUSTRIES
LYONS QUARRY
RECLAMATION PROJECT

CIVIL
OVERALL RECLAMATION
PLAN & DETAILS

FILENAME 01C-08.dwg
SCALE AS NOTED
SHEET 01C-08