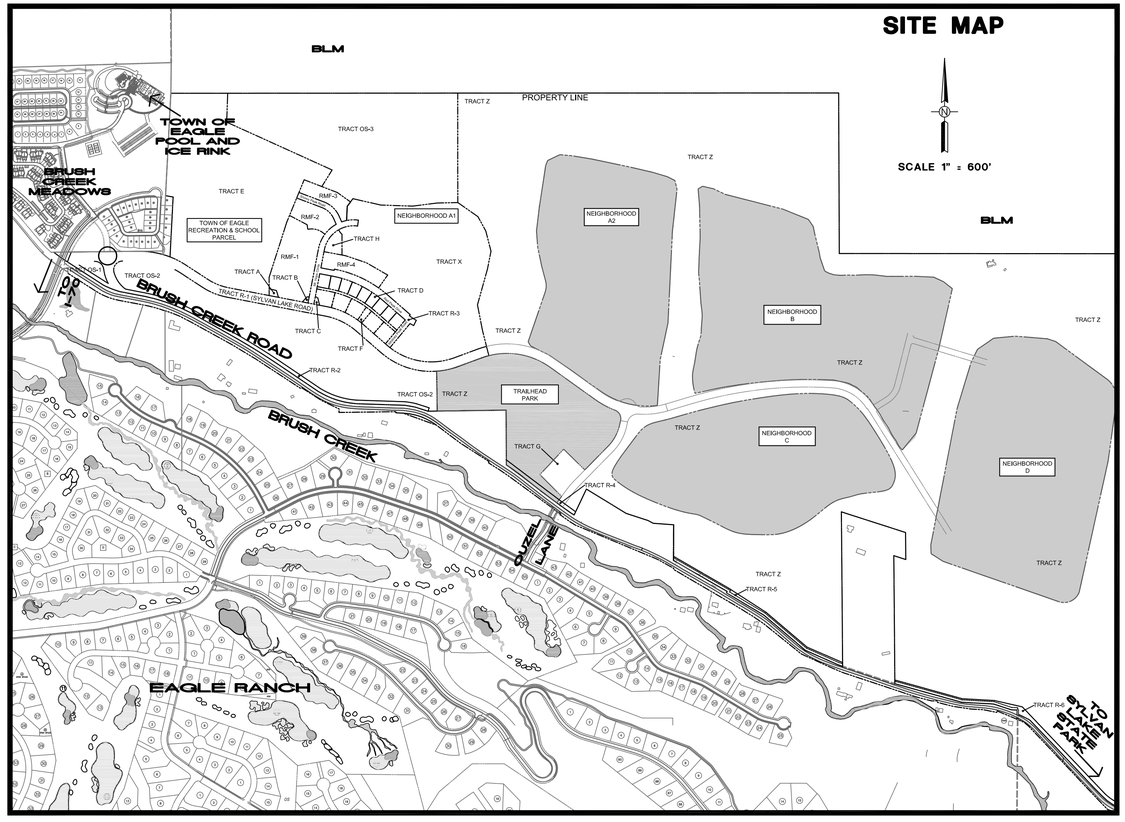
HAYMEADOW FILING 1
ACCESS AND INFRASTRUCTURE PLANS
EAGLE, COLORADO
FEBRUARY 2019

GENERAL NOTES

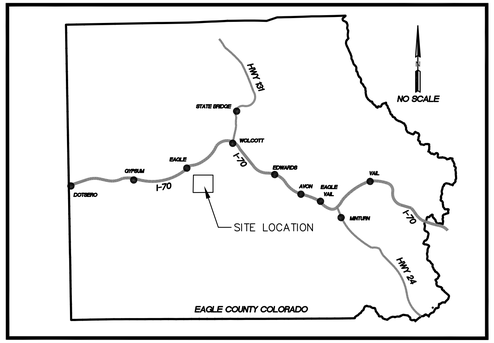
1. Alpine Engineering, Inc., assumes no responsibility for utility locations. It is the contractor's responsibility to field verify the location of all utilities prior to commencement of any construction.
2. The Contractor shall take all appropriate precautions to significantly reduce any potential pollution caused by his activities, including vehicle fueling, storage of fertilizers or chemicals, etc. The contractor shall have identified procedures for handling potential pollutants and have identified spill prevention and response procedures prior to any activities at the project site, and shall comply with the conditions and requirements of the cdphe stormwater management permit and plan.
3. The Contractor shall minimize all off site soil tracking. All soil tracked off site shall be immediately cleaned up to the satisfaction of the owner & town of eagle. Install stabilized construction entrance prior to commencement of any construction activities.
4. All excavating for roadway, retaining walls, drainage facilities and other trenches shall meet osha requirements.
5. The Contractor shall keep a set of contract drawings marked up to fully indicate asbuilt conditions. The drawings shall be provided to alpine engineering, inc. Upon completion of this work. Asbuilt information needs to be GPS and submitted to the Town in Autocad and GIS formats.
6. Safety is the responsibility of the contractor. The engineer is not responsible for safety in, on or about the project site, nor for compliance by the appropriate party with any regulations relating thereto.
7. Observations of the work in progress and on-site visits are not to be construed as a guarantee or warranty by the engineer of the contractor's contractual obligations.
8. If any groundwater is encountered the contractor shall contact Alpine Engineering, Inc. And H.P. Kumar immediately.
9. The Contractor shall maintain traffic at all times to the satisfaction of the owner and the Town of Eagle. The contractor shall minimize traffic disruptions and provide adequate safety precautions to ensure public safety. The Contractor must submit traffic control plan to Town of Eagle and receive approval prior to any construction.
10. The Contractor shall protect and preserve all trees, bushes, shrubs, and ground cover in a manner acceptable to the owner, and as defined within the pertinent permits.
11. The Contractor shall maintain existing drainage channels, culverts, and appurtenances during construction as necessary to protect roads and property.
12. The Contractor shall grade in order to provide positive drainage.
13. Retaining walls greater than 4 feet in height shall require a structural design by a structural engineer.
14. The Contractor shall adhere to all the terms, conditions & requirements contained within the U.S. Army Corps of Engineers 404 wetlands permit.

SITE MAP



SHEET INDEX

CIVIL COVER SHEET	C1.01
CIVIL NOTES	C1.02
OVERALL DEVELOPMENT PLAN	C1.03
EXISTING CONDITIONS PLAN	C1.04
ROAD PLAN AND PROFILES	C2.01-C2.07
RECREATION PATH AND DEBRIS FLOW CHANNEL PLAN	C2.08-C2.09
SYLVAN LAKE ROAD \ BRUSH CREEK ROAD ROUNDABOUT CURB PROFILES	C2.10
TYPICAL ROAD SECTIONS	C2.11
SIGNAGE AND STRIPING PLAN	C2.12-C2.14
CURB AND GUTTER PROFILES	C2.15-C2.18
ROUNDABOUT JOINTING PLAN	C2.19
OVERALL STORM PLAN	C3.00
STORM PLAN AND PROFILES	C3.01-C3.06
OVERALL WATER / SEWER PLAN	C4.00
SEWER PLAN AND PROFILES	C4.01-C4.05
WATER SYSTEM PLAN AND PROFILES	C5.01-C5.07
TEMPORARY IRRIGATION FLOW CUTOFF DITCH AND BERM	C6.00
NON-POTABLE PLAN AND PROFILES	C6.01-C6.05
SHALLOW UTILITY PLAN	C7.01-7.04
SEDIMENT CONTROL PLAN	C8.01-8.06
ROAD AND GRADING DETAILS	C9.01
ROAD, GRADING, STORM DETAILS	C9.02
POND STORM DETAILS	C9.03-C9.04
STORM DETAILS	C9.05
WATER DETAILS	C9.06
WATER AND SEWER DETAILS	C9.07-C9.08
SEDIMENT CONTROL DETAILS	C9.09-C9.10
SHALLOW UTILITY DETAILS	C9.09-C9.11
INTERSECTION DETAILS	C9.12
NON-POTABLE SYSTEM	NP-1 - NP-2
REVEGETATION PLANS	L1.0-L1.6
LIGHTING PLANS	E0.00-E0.03
ELECTRICAL SITE PLANS	E1.01-E1.02



LOCATION MAP

PROJECT CONTACTS

DEVELOPER, HAYMEADOW METRO DISTRICT: BRANDON COHEN (brandon@abrika.com)	(561) 271-6100
OWNER'S REPRESENTATIVE: SCOTT SCHLOSSER (scottes@vail.net)	(561) 271-6100
PLANNER, PYLMAN AND ASSOCIATES: RICK PYLMAN (Rick@pylman.com)	(970) 926-6065
CIVIL ENGINEER, ALPINE ENGINEERING: MATT WADEY (wadey@alpinecivil.com)	(970) 926-3373
LANDSCAPE ARCHITECT, DHM DESIGN: LAURA KIRK (lkirk@dhmdesigncom)	(970) 963-6520
ARCHITECT, 359 DESIGN, LLC: JOE COLEMAN (jcoleman@359designcom)	(970) 619-5195
NON-POTABLE ENGINEER, SGM INC: DAVE KOTZ (davek@sgm-inc.com)	(970) 384-9008
LIGHTING CONSULTANT, BG BUILDING WORKS: TIM McCABE (tmmccabe@bgbuildingworks.com)	(970) 949-6108
IRRIGATION DESIGN, GJ PIPE: MARK GIBBONS (mark.gibbons@gjpipe.com)	(561) 244-8141
SURVEYING, ALC: TED ARCHIBEQUE (ted@prolandsurvey.com)	(970) 328-6020
TOWN OF EAGLE, ENGINEERING: VERN BROCK (vern.brock@townofeagle.org)	(970) 328-6542
TOWN OF EAGLE, PUBLIC WORKS: BRYON McGINNIS (bryon@townofeagle.org)	(970) 328-6678
TOWN OF EAGLE, PUBLIC WORKS: JERAD PARKER (jerad@townofeagle.org)	(970) 328-6678
TOWN OF EAGLE, PUBLIC WORKS: JOHN BOYD (john@townofeagle.org)	(970) 328-6549
TOWN OF EAGLE, PUBLIC WORKS: DERON DIRCKSEN (deron@townofeagle.org)	(970) 328-6546
BLACK HILLS ENERGY: TODD ELLSWORTH (Todd.Ellsworth@blackhillscorp.com)	(970) 928-0418
HOLY CROSS ENERGY (ELECTRIC): KEITH HERNANDEZ (khernandez@holycross.com)	(970) 947-5439
CENTURY LINK (PHONE\CATV): JASON SHARPE (jason.sharpe@centurylink.com)	(970) 309-2973
GEOTECHNICAL ENGINEER, HP-KUMAR: DAVE YOUNG (dyoung@kumarusa.com)	(970) 384-4837

APPROVED BY THE TOWN OF EAGLE
BY: _____
DATE: _____

811 FOR BURIED UTILITY INFORMATION
THREE (3) BUSINESS DAYS BEFORE YOU DIG
CALL 811
(or 1-800-922-1987)
UTILITY NOTIFICATION CENTER OF COLORADO (UNCC)
www.uncc.org

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED MATTHEW C. WADEY 11-8-18 39865 PROFESSIONAL ENGINEER

HAYMEADOW FILING 1
CIVIL COVER SHEET

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C1.01

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Cover-Ph1.dwg, 2/21/2019 4:19:13 PM, foth

WATER SYSTEM NOTES:

1. Water construction shall conform to the standards and specifications per the Town of Eagle Public Works Manual.

SANITARY SEWER SYSTEM NOTES:

1. Sanitary Sewer construction shall conform to the standards and specifications per the Town of Eagle Public Works Manual.

DRAINAGE NOTES:

1. All storm drains and culverts shall be constructed in accordance with the Technical Specifications.

2. Types of structures refer to the Colorado Department of Transportation M and S Standards, CDOT Standard Specifications, or are included on the details sheets.

3. Alpine Engineering, Inc., assumes no responsibility for utility locations. It is the Contractor's responsibility to field verify the location of all utilities prior to commencement of any construction.

4. All drain pipes shall be installed with the required bedding.

5. Elevations shown are at pipe invert unless otherwise shown.

6. All standard storm drain structures are subject to modification by the Engineer to meet field requirements.

7. Contractor to provide Culvert Outlet Protection (see SD detail Sheet) at storm drain and culvert outfalls unless otherwise noted.

8. All storm drain and culvert outfalls to have End Sections or Endwalls unless they are to be extended in the future.

9. Inlet boxes to be oversized to accommodate pipe size where necessary. Provide AASHTO HS-20 truck load rated top slab to accommodate grate and frame for oversized boxes.

10. All Reinforced Concrete Pipe shall be Class 3 unless noted otherwise. All Reinforced Concrete Pipe Joints (RCP) shall utilize Type R-4 Rubber Gasket Joints which shall be in accordance with AASHTO M198 and ASTM C443 (standard specifications for joints for circular concrete pipe using rubber gaskets).

11. Pipe lengths indicated are slope lengths measured along the centerline of pipe from inside face of box (or manhole) to inside face of box (or manhole).

12. Pipe lengths for last run at outfalls do not include the Flared End Section.

13. Storm drainage facilities need to be periodically inspected and maintained in order to assure that they are functioning properly.

HOLY CROSS ENERGY NOTES:

TRENCH AND CONDUIT

I.

1. The developer or contractor will contact Holy Cross Energy before conduit and vault installation begins to schedule a pre-construction meeting with the project inspector.
2. Changes in power facility construction from that shown on the project plans will not be made without advance approval from the Holy Cross Energy inspector.
3. Holy Cross Energy material shall not be moved from the project to which it was assigned without the advance approval of the inspector and the completion of necessary paperwork. Holy Cross Energy material shall not be installed for any use other than construction of power facilities.
4. All roads will be built to subgrade and all drainages will be constructed to grade before any vaults or conduits are installed.
5. All trench will be excavated deep enough to ensure that the top of installed power facilities will be 48" below final grade. Special care must be taken to insure that the top of conduits will be 48" below the bottom of drainage ditches and all other low areas.
6. Trench will be as straight as possible between vaults and shall have a smooth bottom free from low and high spots. Six inches of road base will be placed the entire length of the trench and well compacted prior to conduit installation. When placed in the trench, the conduit shall be in continuous contact with the compacted road base with no hold down weight added. Twelve inches of road base, as measured from the top of the conduit, will be placed on the conduit and well compacted prior to returning any native backfill to the trench. Large rocks shall not be placed directly on the road base layer. Care must be taken to avoid conduit damage during backfill and compaction; conduits found to be unusable at the time of power cable installation will be repaired by the developer or contractor before power can be made available.
7. Power facilities to be placed parallel to deeper utilities will have a horizontal separation from the deeper utility greater than the depth of such utility below final grade less four feet (see attached drawing). When crossing a deeper utility is unavoidable, the crossing will be made as close to perpendicular as possible.
8. Power line conduits will be installed with a minimum separation of 12" from all other new or existing underground utility lines. Wherever possible, this separation will be horizontal. The power line separation from plastic gas lines will be greater than this minimum wherever practicable. Power line conduits will be located deeper in the trench than the facilities of all other utilities unless the inspector grants a waiver prior to the start of construction.
9. Backfill and compaction above the road base layer will be as required by the governmental entity or other party having jurisdiction. Conduit bell ends will not be allowed in the vaults. Holy Cross Energy will supply factory couplers, 90°, 45°, and 22-1/2° elbows as needed for job. Non-factory bends and heated bends will not be allowed. No more than two 90° elbows will be allowed in a conduit run of 500 feet. The conduit shall run straight between factory bends. Allowed bends must be further than 5' from a vault. Factory elbows supplied must be used intact; they cannot be cut to make a lesser bend. Bells will not be cut off conduit sticks to use as couplers. Holy Cross Energy elbows and pipe will be used only for the power facility installation.
10. The conduit will not be backfilled without the Holy Cross Energy inspector seeing all joints unless the inspector gives prior permission. All joints shall be completely seated to the line marked on the male end of the conduit after sufficient glue is applied to both conduits being jointed, even in areas where the trench cannot be excavated completely straight. Glue in the joint shall be allowed to completely dry prior to any stress being applied to the conduit on either side of the joint. Trench backfilled without the inspector viewing each joint or giving prior permission to cover the conduit will be re-excavated to expose the conduit, or the contractor will put a camera through each conduit in the span which was prematurely backfilled to The camera verification will be witnessed by the Holy Cross Energy inspector. Verify the joint seating and conduit condition.
11. Individual conduits shall enter each vault at a consistent location. There is to be no crossing of conduits in the trench.
12. Both ends of a conduit run shall be securely plugged at the time of installation with Holy Cross Energy supplied material. Conduit ending outside a vault shall be marked with a 4" x 4" post or other approved method.
13. Red trench marking tape will be supplied by Holy Cross Energy and shall be installed 18" to 24" above the conduit during backfill.
14. At completion of the job, the inspector will do a final inspection. If the job does not meet with Holy Cross Energy's specifications or the approval of inspector, service will not be provided until specifications are met.

II. VAULTS.

1. Vaults shall be installed as follows:
   - A. Splice vaults shall be installed with the manhole lid grade being slightly above final grade of the surrounding area, except when the vault is in a roadway, the manhole lid grade shall match the grade of the finished roadway surface.
   - B. Splice vaults located in roads or other sloped areas will be installed so that the concrete base and lid are at the slope of the surrounding area. Vaults placed in roads will not be located in areas normally traversed by vehicle wheels. The inspector must approve all vaults installed at a slope.
   - C. Transformer vaults and switchgear vaults will be installed with the bottom of the lid at final grade. The lid will be level.
   - D. Where transformer and switchgear vaults are set into hillsides or sloped cuts, the downhill side of the vault will be graded according to C above. The slope behind the vault will be laid back sufficiently to prohibit soil or rocks from sloughing onto the vault. If the slope cannot be laid back far enough, a retaining wall shall be constructed behind the vault at the direction of the inspector.
   - E. All vault pads will be placed on the vaults at the time of vault installation to protect the public and wildlife, unless otherwise instructed by the inspector. The holes through transformer and switchgear pads will be covered at the time of vault installation with concrete pieces supplied by Holy Cross Energy, unless otherwise instructed by the inspector.
   - F. Large vault pieces shall be jointed with a tar type sealant provided by Holy Cross Energy, with the exception of the vault lid, at the direction of the inspector.
2. Holes knocked in vaults for conduit installation shall be as small as possible and shall be grouted closed on the outside of the vault prior to backfill.
3. Conduit shall enter vaults perpendicular to the vault wall, at least 2" from any adjacent walls and at least 2" above the vault base. There shall be a minimum separation of 1" between conduits. See vault drawings.
4. Conduit will extend 4" into the vault (measured from the inside wall of the vault) after backfilling is complete.
5. Ground rods in vaults for underground cable installation shall be laid in the trench with the conduits. The end of the rod shall extend approximately 6" into the vault through the conduit knockout. The rod will have a 45° bend located approximately 3" from the vault end, with the bend going away from the conduits. The bent end of the rod must be far enough from the vault wall to allow crimping the grounding conductor onto the rod. The rod must be at least 2" from the conduit at its entrance into the vault. See vault drawings.
6. After the vault has been set, pipes extended in and grouted and the ground rod is in place, vaults shall be swept out removing all dirt or rocks. Cleanup shall be completed to the satisfaction of the inspector prior to cable installation being scheduled.
7. Pedestals for other utilities shall not be located closer than 10' to a vault on sides where transformers or switchgear will have access doors. Pedestals shall not be located closer than 5' to a vault on sides where the pad-mounted equipment will not have access doors.

CONSTRUCTION NOTES

1. TOE FD Knox Lock to be placed at each entrance for after hours FD access.
2. Temporary entrances to to have proper tracking pad, erosion control and signage accordingly.
3. Temporary toilets and trash to be added and subtracted throughout. Placement may be adjacent to current activities within the area of disturbance in order to ensure best practices.
4. Contractor to use water truck to reduce dust, and must pay special attention to dust around Soiell Homes.
5. Contractor to use future roads and recreation paths to best of their ability to reduce the need for additional temporary haul roads.
6. Contractor to operate within TOE standard construction hours and best practices. Additional working days, such as Sunday, contractor shall contact TOE for extended hours. Emergencies excluded such as broken utility pipe.

BLACK HILLS ENERGY SERVICE LINE EXCAVATION

1.) All sites will be required to provide sand or road base with no frost for bedding and shading of the installed gas service line during the winter months. Contact your local Utility Construction Specialist for further information.

Providing that the main gas line is on your side of the street, and not in the street, you need to have a contractor dig a trench meeting the following requirements:

2.) 4'x4' bell hole must be dug so that 4' of the main is exposed lengthwise, with a minimum of 1' clearance under the main and 1' behind the main, in order for the fusion tools to be used.

3.) In the event there is a stub, a 4'x4' bell hole must be dug around the stub.

4.) In the event the gas main is steel, a 6' square bell hole exposing the main must be dug, with a clearance of 16" under the main in order for welding equipment to be used.

5.) Trench to be 6" wide and a minimum of 24" deep (30" is preferred).

6.) Trenches must be dug to the foundation and the foundation completely exposed at the location of the service riser.

7.) A minimum clearance of 3' is required between the gas line and any other utility or underground structures.

8.) Service lines must be perpendicular from the main to the house. They may not cross adjoining properties.

9.) They may not cross driveways or be trenched under a proposed driveway, this can be handled on a case by case basis for custom applications.

ROADWAY DESIGN CRITERIA:

DESIGN CRITERIA	ARTERIAL	COLLECTOR	LOCAL
ROAD NAME	SYLVAN LAKE ROAD	SYLVAN LAKE ROAD & OUZEL LANE	ROADS A-E
(STATIONING)	(STA 0+00-22+00)	(STA 22+00- OUZEL INTERSECTION)	(ALL ROADS)
RIGHT OF WAY WIDTH	80 FEET	60 FEET	50 FEET
LANE WIDTH	11 FEET	11 FEET	11 FEET
SHOULDER TYPE\WIDTH	PAVED-5 FEET	PAVED-5 FEET	CURB & GUTTER
DESIGN SPEED	40 MPH	30 MPH	25 MPH
MAXIMUM CENTERLINE GRADE	8%	8%	8%
K VALUE (SAG CURVE)	40	40	20
K VALUE (CREST CURVE)	30	30	10
MIN CENTERLINE RADIUS	350 FEET	350 FEET	150 FEET
MIN TANGENT BETWEEN CURVES	200 FEET	85 FEET	85 FEET
MIN DISTANCE BETWEEN INTERSECTIONS	500 FEET	400 FEET	200 FEET

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. WEAVER
11-8-19
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

CIVIL NOTES

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED	MW, RL
DRAWN	RF
CHECKED	MCW
JOB NO.	53480.5
DATE	02/20/2019

SHEET
C1.02

O:\Eagle\Haymeadow-53480.5- 2016\dwg\Master\Cover-Ph1.dwg, 2/19/2019 8:41:21 AM, Lee

LEGEND

HAYMEADOW PROPERTY BOUNDARY
PROPOSED TRACT\LOT PROPERTY LINE

REFER TO HAYMEADOW FILING 1 FINAL PLAT
FOR ALL TRACT / LOT DESIGNATIONS

N

SCALE 1" = 300'

B.L.M.

TRACT Z

TRACT OS-3

TRACT E

TOWN OF EAGLE RECREATION PARCEL

POOL & RINK

SOLEIL HOMES

PARCEL A TOWN OF EAGLE

TOWN OF EAGLE RECREATION & SCHOOL PARCEL

RMF-1

RMF-2

RMF-3

RMF-4

Silvery Peak Road

Mt. Hayden Drive

Bird Peak Drive

Silvery Peak Court

NEIGHBORHOOD A1

NEIGHBORHOOD A2

NEIGHBORHOOD B

NEIGHBORHOOD C

NEIGHBORHOOD D

TRACT H

TRACT X

TRACT A

TRACT B

TRACT C

TRACT D

TRACT F

TRACT R-1 (SYLVAN LAKE ROAD)

TRACT R-2

TRACT R-3

TRACT R-4

TRACT R-5

TRACT R-6

TRACT OS-1

TRACT OS-2

TRAILHEAD PARK

TRACT G

BRUSH CREEK

BRUSH CREEK ROAD

EAGLE RANCH

EAGLE RANCH RD

QUZEL LANE

COLBY

TOWN OF EAGLE

BRUSH CREEK VALLEY RANCH AND OPEN SPACE

O:\Eagle\Haymeadow- 53480.5 - 2016\dwg\Xref\DEVO-OVERALL.dwg, 2/19/2019 8:49:44 AM, Lee

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS, COLORADO 81632
970.926.5717
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. WEW
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

OVERALL DEVELOPMENT PLAN

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET
C1.03

SCALE 1" = 400'

HAYMEADOW PROPERTY– ALTA SURVEY
(BY JOHNSON, KUNKEL & ASSOCIATES, INC)

LEGEND:

- Property Line
- Adjacent Property Line
- Section Line
- Tract Line
- Edge of Asphalt
- Dirt Road
- Fence Line
- Water Line (M.L.V.)
- Overhead Utility Line (OHEL)
- Easement Line
- Tie Line
- Ditch Flowline
- Water Manhole (M)
- Utility Pole
- Guy Wire
- Government Tract Corner as described
- Property Corner as described

Found, Iron Pin in Range Box
Town of Eagle Control Monument
Second and Broadway

Second Street

Broadway

S00°13'00"E, 1130.11' (tie)
Basis Of Bearings

Fifth Street

N50°26'50"W 5150.31' (tie)

Found, Iron Pin in Range Box
Town of Eagle Control Monument
Fifth and Broadway

SECTION 4

Brush Creek Meadows

Found, 2 1/2" USGLO brass cap on 1" iron pipe, 1917

Found, 1 1/2" aluminum cap on #5 rebar, PLS 22688

Found, 2" aluminum cap on #5 rebar, PLS 26967

Found, 2 1/2" aluminum cap on 2 1/2" aluminum pipe, PLS 26967 Meyer Land Systems, 1999

BLM

Set, 2 1/2" aluminum cap on #6 rebar, PE/PLS 23089, 2004

SECTION 3

Found, 2 1/2" USGLO brass cap on 1" iron pipe, 1917

Found, 1 1/2" aluminum cap on #5 rebar, LS 4551 (S10°32'06"W, 13.67' from record location)

TRACT 38

Found, 2 1/2" USGLO brass cap on 1" iron pipe, 1917

TRACT 37

SEC 4 SEC 3
SEC 9 SEC 10

TRACT 55

WETLANDS

TRACT 44

BRUSH CREEK ROAD
(R.O.W. Varies)

Found, 2 1/2" USGLO brass cap on 1" iron pipe, 1917

SECTION 9

Found, 2 1/2" aluminum cap on #6 rebar, PLS 26967 Meyer Land Systems, 2000

Alfred B. Colby
Book 405, Page 672
Book 405, Page 673

TRACT 58

Found, 1 1/2" aluminum cap on #5 rebar, PLS 4551

TRACT 59

Found, 1 1/2" aluminum cap on #5 rebar, PLS 14109

Area of apparent propane tank encroachment

Found, 1 1/2" aluminum cap on #5 rebar, illegible

Found, 1 1/2" aluminum cap on #5 rebar, PLS 20695

WETLANDS

Peters Subdivision
Book 524, Page 199

Found, 1 1/2" aluminum cap on #5 rebar, PLS 4551
SW Corner Peters Sub.
on-line, 13.55' from property corner

Found, Iron Pin Rehabilitated with 2 1/2" aluminum cap on #6 rebar, PE/PLS 23089, 2004

20' Water Line Easement
Reception No. 849703

Apparent Prescriptive Access Easement up to 40' wide

SECTION 10

Found, 3 1/2" aluminum cap on #6 rebar, PLS 23508

BRUSH CREEK ROAD
(R.O.W. Varies)

TRACT 60

Found, 2 1/2" USGLO brass cap on 1" iron pipe, 1920

SEC 10 SEC 11
SEC 15 SEC 14

Found, 2 1/2" USGLO brass cap on 1" iron pipe, 1917

BLM

SECTION 2

Found, 2 1/2" aluminum cap on 2 1/4" aluminum pipe, PLS 26967, Johnson, Kunkel & Assoc., 1992

1256.68' N00°27'52"W

Found, 1" iron pipe Rehabilitated with 2 1/2" aluminum cap on #6 rebar PE/PLS #23089, 2004

Set, 1 1/2" aluminum cap on #5 rebar, PE/PLS 23089

1240.2' (tie)

House w/ Deck

Corral

SEC 3 SEC 2
SEC 10 SEC 11

20' Electric Easement
Book 305, Page 584

TRACT 62

10' Electric Easement
Book 305, Page 584

Set, 1 1/2" aluminum cap on #5 rebar, PE/PLS 23089

Found, 2 1/2" aluminum cap on #6 rebar, PLS 26967 Johnson, Kunkel & Assoc., 1992

10' Electric Easement
Book 304, Page 201

10' Electric Easement
Book 304, Page 202

120' Road Easement
Book 544, Page 264
(easement agreement has likely expired)

1254.49'

HBE

TRACT 61

Found, 1 1/2" aluminum cap on #5 rebar, PLS 14109

Found, 1 1/2" aluminum cap on #5 rebar, PLS 26967

Found, 1 1/2" aluminum cap on #5 rebar, PLS 14109 (N76°46'12"W, 1.72' from record location)

Found, 1 1/2" aluminum cap on #5 rebar, PLS 14109 (N65°04'02"W, 1.85' from record location)

Norman Property
Book 272
Book 271
Page 437

371.17'

20' Water Line Easement
Reception No. 849704

Found, 3 1/2" aluminum cap in concrete, PLS 23508, STARBUCK

Set, 1 1/2" aluminum cap on #5 rebar, PE/PLS 23089

SECTION 11

Set, 1 1/2" aluminum cap on #5 rebar, PE/PLS 23089

TRACT 63

Set, 1 1/2" aluminum cap on #5 rebar, PE/PLS 23089

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EAGLE, COLORADO 81631
970.328.5331
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. WILLIAMS
T-8-18
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

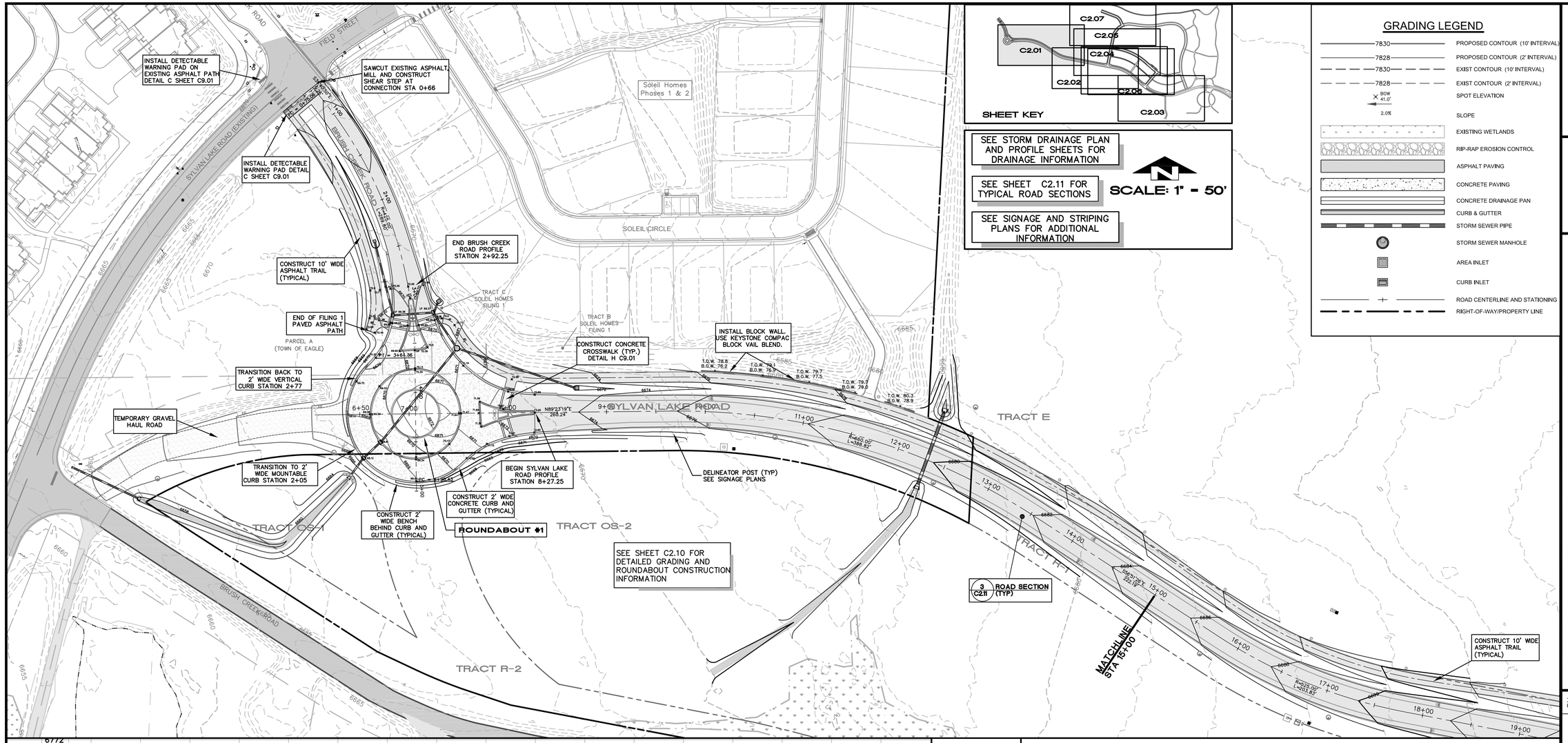
EXISTING CONDITIONS PLAN

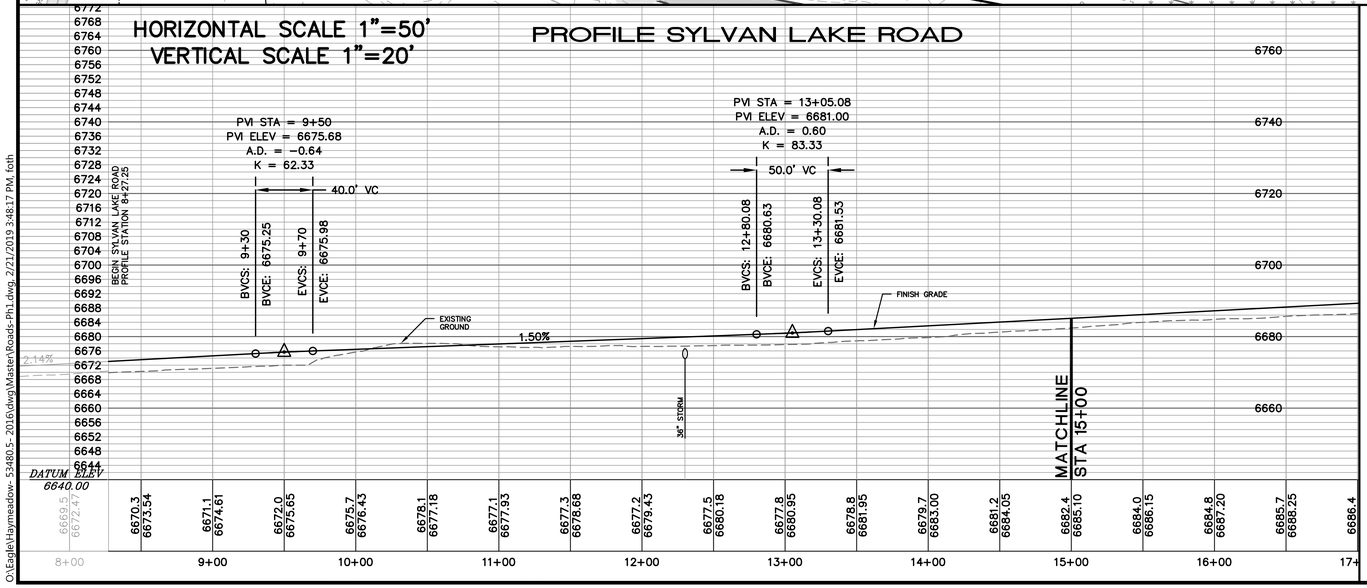
NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	GB
	02/20/2019	RESPONSE TO COMMENTS	

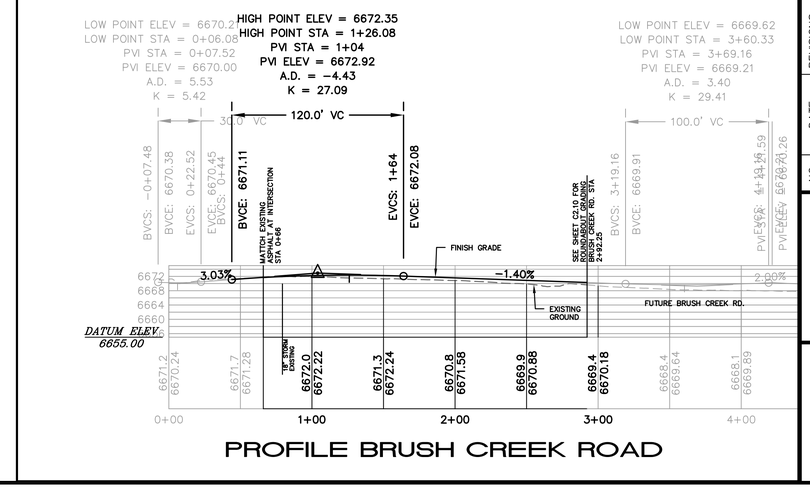
DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET
C1.04

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Existing Conditions Plan.dwg, 2/19/2019 8:43:35 AM, Lee







ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. BELL
11-8-16
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

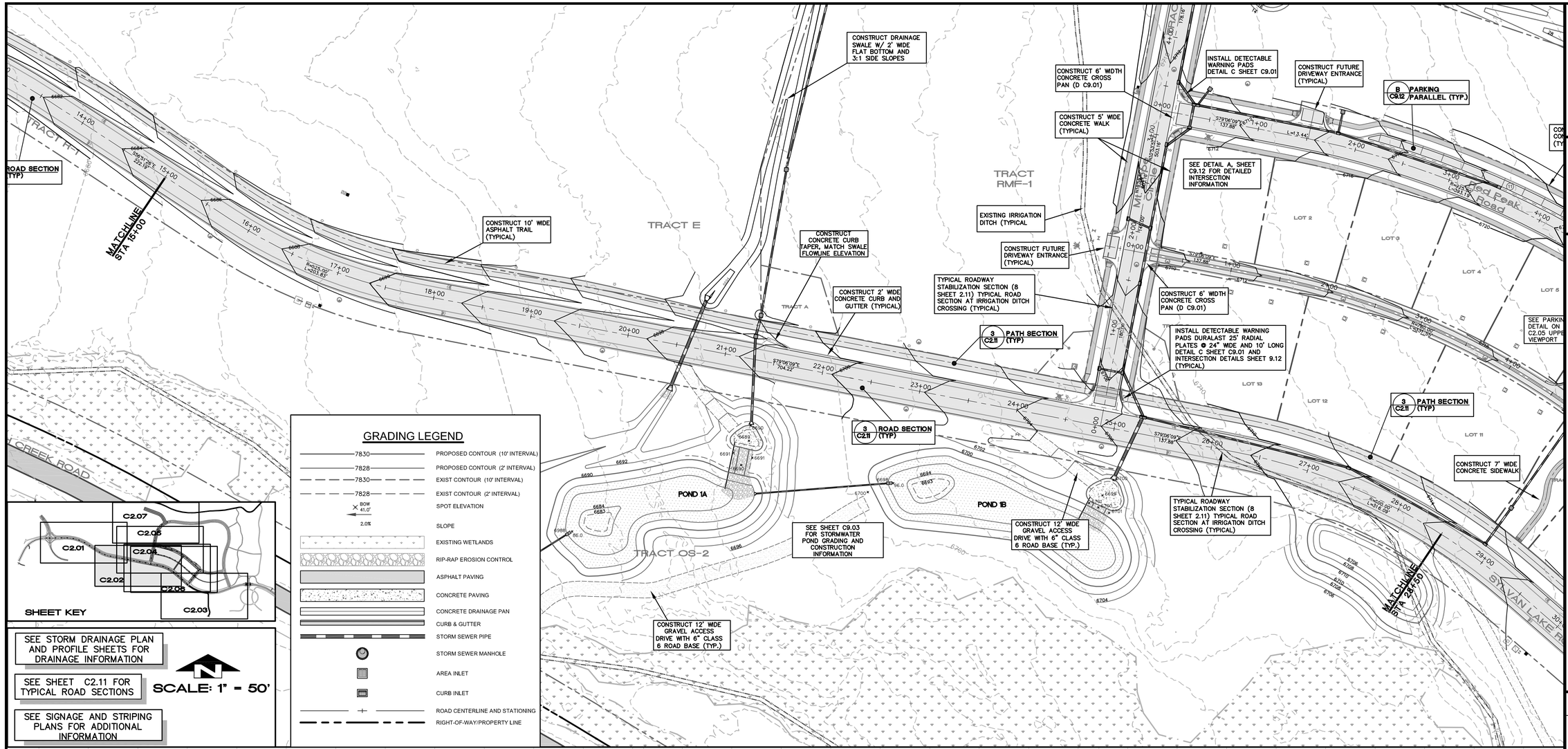
ROAD PLAN AND PROFILES

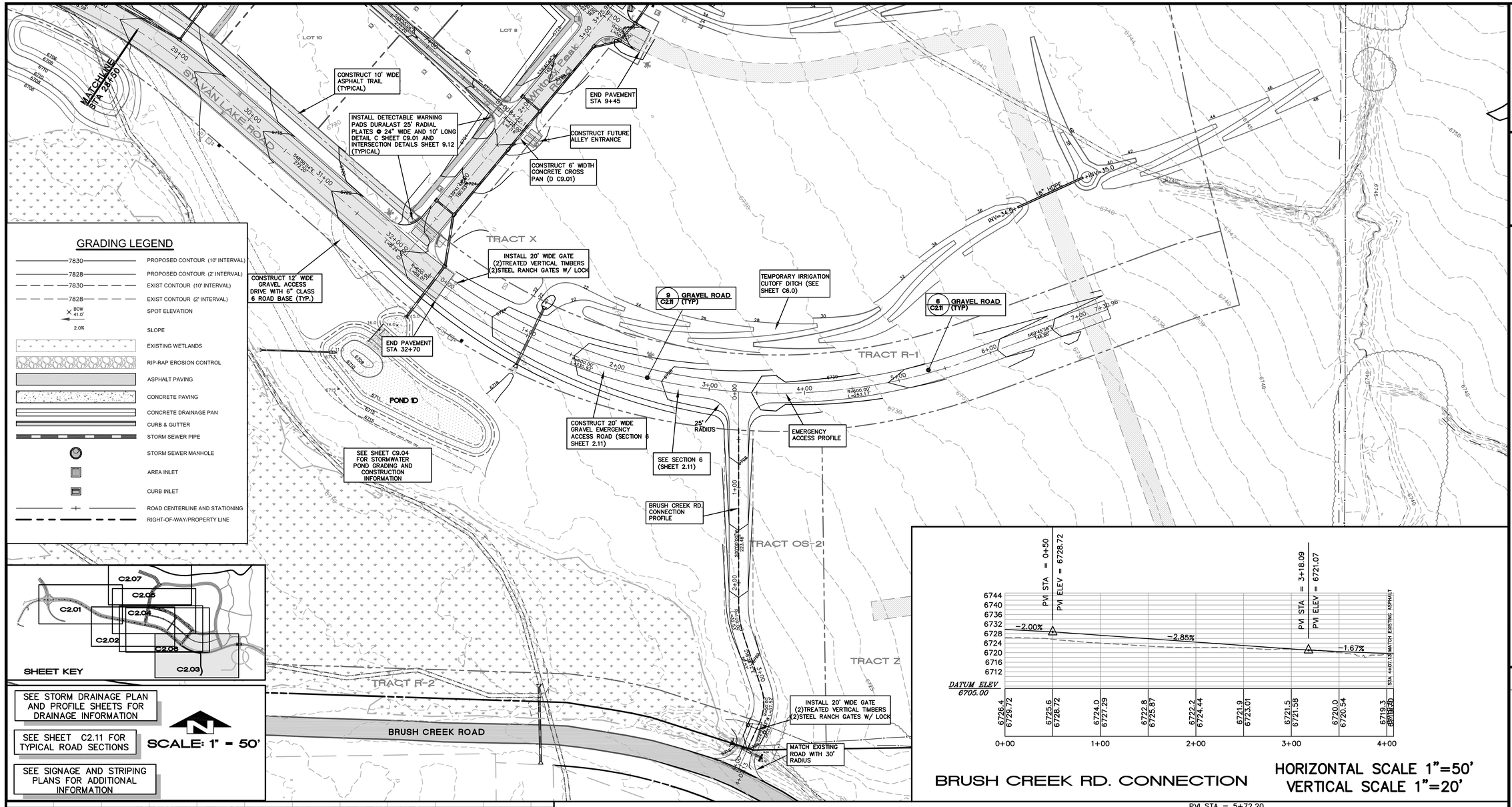
NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C2.01

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Roads-Ph1.dwg, 2/21/2019 3:48:17 PM, foth


CONSTRUCT DRAINAGE SWALE W/ 2' WIDE FLAT BOTTOM AND 3:1 SIDE SLOPES
CONSTRUCT 6' WIDTH CONCRETE CROSS PAN (D C9.01)
INSTALL DETECTABLE WARNING PADS DETAIL C SHEET C9.01
CONSTRUCT FUTURE DRIVEWAY ENTRANCE (TYPICAL)
8 C9.12 PARKING PARALLEL (TYP.)
CONSTRUCT 5' WIDE CONCRETE WALK (TYPICAL)
SEE DETAIL A, SHEET C9.12 FOR DETAILED INTERSECTION INFORMATION
CONSTRUCT 10' WIDE ASPHALT TRAIL (TYPICAL)
CONSTRUCT CONCRETE CURB TAPER, MATCH SWALE FLOWLINE ELEVATION
CONSTRUCT 2' WIDE CONCRETE CURB AND GUTTER (TYPICAL)
EXISTING IRRIGATION DITCH (TYPICAL
CONSTRUCT FUTURE DRIVEWAY ENTRANCE (TYPICAL)
TYPICAL ROADWAY STABILIZATION SECTION (8 SHEET 2.11) TYPICAL ROAD SECTION AT IRRIGATION DITCH CROSSING (TYPICAL)
CONSTRUCT 6' WIDTH CONCRETE CROSS PAN (D C9.01)
3 C2.11 PATH SECTION (TYP)
INSTALL DETECTABLE WARNING PADS DURALAST 25' RADIAL PLATES @ 24" WIDE AND 10' LONG DETAIL C SHEET C9.01 AND INTERSECTION DETAILS SHEET 9.12 (TYPICAL)
3 C2.11 ROAD SECTION (TYP)
3 C2.11 PATH SECTION (TYP)
CONSTRUCT 7' WIDE CONCRETE SIDEWALK
SEE SHEET C9.03 FOR STORMWATER POND GRADING AND CONSTRUCTION INFORMATION
CONSTRUCT 12' WIDE GRAVEL ACCESS DRIVE WITH 6" CLASS 6 ROAD BASE (TYP.)
TYPICAL ROADWAY STABILIZATION SECTION (8 SHEET 2.11) TYPICAL ROAD SECTION AT IRRIGATION DITCH CROSSING (TYPICAL)
CONSTRUCT 12' WIDE GRAVEL ACCESS DRIVE WITH 6" CLASS 6 ROAD BASE (TYP.)
MATCHLINE STA 15+00
MATCHLINE STA 28+50
TRACT H-1
TRACT E
TRACT RMF-1
TRACT A
TRACT OS-2
POND 1A
POND 1B
Mt Evans Blvd
Red Peak Road
SYLVAN LAKE ROAD
CREEK ROAD
LOT 2
LOT 3
LOT 4
LOT 5
LOT 11
LOT 12
LOT 13
SEE PARKIN DETAIL ON C2.05 UPPE VIEWPORT
R=525.00' L=203.83'
R=425.00' L=313.78'
R=280.00' L=316.98'
S79°06'09"E 704.22'
S79°06'09"E 137.88'
S79°06'09"E 137.88'
S79°06'09"E 137.88'
L=3.44'
R=25.00'
R=25.00'
R=25.00



GRADING LEGEND

- 7830 — PROPOSED CONTOUR (10' INTERVAL)
- 7828 — PROPOSED CONTOUR (2' INTERVAL)
- 7830 — EXIST CONTOUR (10' INTERVAL)
- 7828 — EXIST CONTOUR (2' INTERVAL)
- BOW 41.0' — SPOT ELEVATION
- 2.0% — SLOPE
- EXISTING WETLANDS
- RIP-RAP EROSION CONTROL
- ASPHALT PAVING
- CONCRETE PAVING
- CONCRETE DRAINAGE PAN
- CURB & GUTTER
- STORM SEWER PIPE
- STORM SEWER MANHOLE
- AREA INLET
- CURB INLET
- ROAD CENTERLINE AND STATIONING
- RIGHT-OF-WAY/PROPERTY LINE

SEE STORM DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE INFORMATION

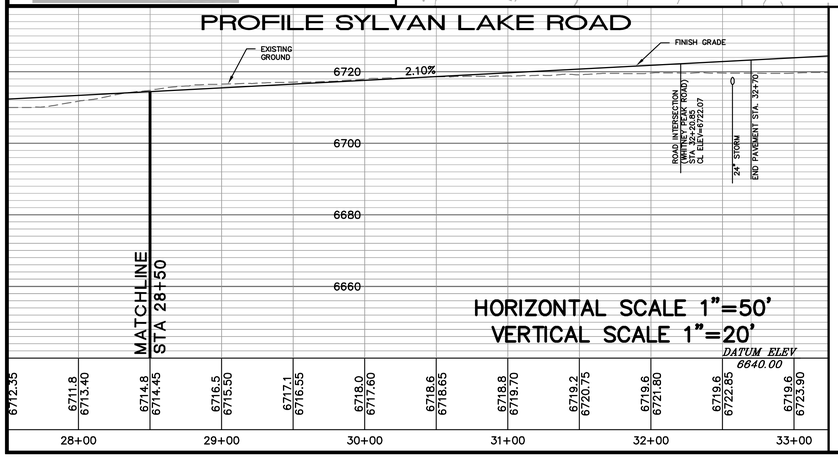
SEE SHEET C2.11 FOR TYPICAL ROAD SECTIONS

SEE SIGNAGE AND STRIPING PLANS FOR ADDITIONAL INFORMATION

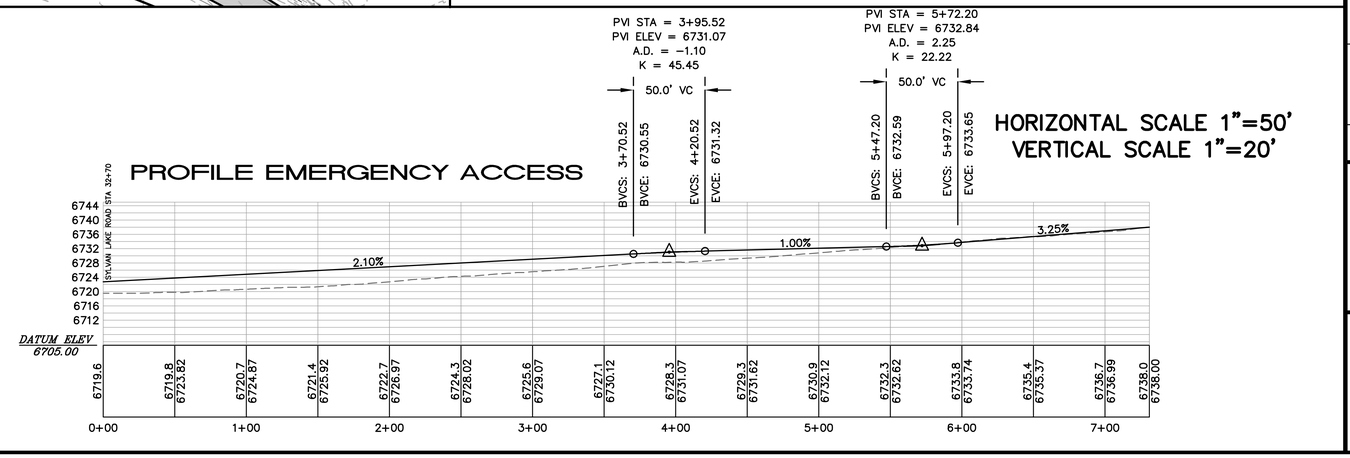
SCALE: 1" = 50'

BRUSH CREEK RD. CONNECTION

HORIZONTAL SCALE 1"=50'
VERTICAL SCALE 1"=20'



HORIZONTAL SCALE 1"=50'
VERTICAL SCALE 1"=20'



HORIZONTAL SCALE 1"=50'
VERTICAL SCALE 1"=20'

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED MATTHEW C. LEE 39865 PROFESSIONAL ENGINEER 7-8-19

HAYMEADOW FILING 1

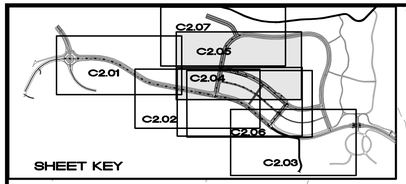
ROAD PLAN AND PROFILES

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C2.03

O:\Eagle\Haymeadow- 53480.5 - 2016\dwg\Master\Roads-Pln1.dwg, 2/20/2019 3:29:16 PM, Lee



SHEET KEY

SEE STORM DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE INFORMATION

SEE SHEET C2.11 FOR TYPICAL ROAD SECTIONS

SEE SIGNAGE AND STRIPING PLANS FOR ADDITIONAL INFORMATION

SCALE: 1" = 50'

GRADING LEGEND

- 7830 — PROPOSED CONTOUR (10' INTERVAL)
- 7828 — PROPOSED CONTOUR (2' INTERVAL)
- 7830 — EXIST CONTOUR (10' INTERVAL)
- 7828 — EXIST CONTOUR (2' INTERVAL)
- BOW 41.0' / 2.0% — SPOT ELEVATION / SLOPE
- EXISTING WETLANDS
- RIP-RAP EROSION CONTROL
- ASPHALT PAVING
- CONCRETE PAVING
- CONCRETE DRAINAGE PAN
- CURB & GUTTER
- STORM SEWER PIPE
- STORM SEWER MANHOLE
- AREA INLET
- CURB INLET
- ROAD CENTERLINE AND STATIONING
- RIGHT-OF-WAY/PROPERTY LINE

INSTALL DETECTABLE WARNING PADS DETAIL C SHEET C9.01 (TYP.)

END PAVEMENT STA 8+07

SEE DETAIL A, SHEET C9.12 FOR DETAILED INTERSECTION INFORMATION

CONSTRUCT 6' WIDTH CONCRETE CROSS PAN (D C9.01)

CONSTRUCT FUTURE DRIVEWAY ENTRANCE (TYPICAL)

CONSTRUCT TEMPORARY GRAVEL EMERGENCY VEHICLE HAMMERHEAD (6" CLASS 6)

TYPICAL ROADWAY STABILIZATION SECTION (8 SHEET 2.11) TYPICAL ROAD SECTION AT IRRIGATION DITCH CROSSING (TYPICAL)

EXISTING IRRIGATION (TYPICAL

TEMPORARY IRRIGATION CUTOFF DITCH (SEE SHEET C6.0)

CONSTRUCT 5' WIDE CONCRETE WALK (TYPICAL)

CONSTRUCT DRAINAGE SWALE W/ 2' WIDE FLAT BOTTOM AND 3:1 SIDE SLOPES

INSTALL DETECTABLE WARNING PADS DETAIL C SHEET C9.01

CONSTRUCT FUTURE DRIVEWAY ENTRANCE (TYPICAL)

B C9.12 PARKING PARALLEL (TYP.)

CONSTRUCT 6' WIDTH CONCRETE CROSS PAN (D C9.01)

CONSTRUCT 5' WIDE CONCRETE WALK (TYPICAL)

SEE DETAIL A, SHEET C9.12 FOR DETAILED INTERSECTION INFORMATION

CONSTRUCT 5' WIDE CONCRETE WALK (TYPICAL)

CONSTRUCT FUTURE DRIVEWAY ENTRANCE (TYPICAL)

B C9.12 WALKWAY RAMP (TYP)

CONSTRUCT 10' WIDE ASPHALT TRAIL (TYPICAL)

CONSTRUCT CONCRETE CURB TAPER, MATCH SWALE FLOWLINE ELEVATION

CONSTRUCT 2' WIDE CONCRETE CURB AND GUTTER (TYPICAL)

EXISTING IRRIGATION DITCH (TYPICAL

CONSTRUCT FUTURE DRIVEWAY ENTRANCE (TYPICAL)

TYPICAL ROADWAY STABILIZATION SECTION (8 SHEET 2.11) TYPICAL ROAD SECTION AT IRRIGATION DITCH CROSSING (TYPICAL)

CONSTRUCT 6' WIDTH CONCRETE CROSS PAN (D C9.01)

3 C2.11 PATH SECTION (TYP)

INSTALL DETECTABLE WARNING PADS DURALAST 25' RADIAL PLATES @ 24" WIDE AND 10' LONG DETAIL C SHEET C9.01 AND INTERSECTION DETAILS SHEET 9.12 (TYPICAL)

3 C2.11 ROAD SECTION (TYP)

SEE PARKING LOT DETAIL ON SHEET C2.05 UPPER RIGHT VIEWPORT

3 C2.11 ROAD SECTION (TYP)

INSTALL 3' WIDE CONCRETE V-PAN

3 C2.11 ALLEY SECTION

3 C2.11 PATH SECTION (TYP)

B C9.12 PARKING PARALLEL (TYP)

CONSTRUCT 7' WIDE CONCRETE SIDEWALK

CONSTRUCT FUTURE DRIVEWAY ENTRANCE (TYPICAL)

TRACT RMF-1 · TRACT RMF-2 · TRACT RMF-4 · TRACT X · TRACT E · TRACT A · TRACT C · TRACT F · TRACT R-2 · TRACT R-3 · TRACT F · LOT 2 · LOT 3 · LOT 4 · LOT 5 · LOT 6 · LOT 7 · LOT 11 · LOT 12 · LOT 13

Mt Hope Circle · Red Peak Road

HORIZONTAL SCALE 1"=50'
VERTICAL SCALE 1"=20'

PROFILE MT. HOPE CIRCLE

PVI STA = 1+84.92
PVI ELEV = 6709.18
A.D. = -0.82
K = 30.00
24.7' VC

PVI STA = 5+44.91
PVI ELEV = 6714.58
A.D. = 3.50
K = 30.00
105.0' VC

30.0' VC

ROAD INTERSECTION (SYLVAN LAKE RD) STA 0+19 EVCE: 6705.81

PVI STA = 0+19
PVI ELEV = 6705.41

PVI STA = 0+32
PVI ELEV = 6705.50

PVI STA = 0+55
PVI ELEV = 6706.16

BVCS: 1+72.58
BVCE: 6708.89
EVCS: 1+97.25
EVCE: 6709.36

ROAD INTERSECTION (MOUNTAIN VIEW DR) STA 3+25.00 CL ELEV=6711.11

BVCS: 4+92.41
BVCE: 6713.79

DRIVEWAY INTERSECTION STA 5+51.42 CL ELEV=6715.09

EVCS: 5+97.41
EVCE: 6717.20

ROAD INTERSECTION SNOW PEAK DRIVE STA 7+66.35 CL ELEV=6725.48

END PAVEMENT STA 8+07

BVCS: 9+09.22
BVCE: 6732.79
EVCS: 9+39.22
EVCE: 6734.14

EXISTING GROUND

FUTURE MT. HOPE CIRCLE PROFILE

FINISH GRADE

3.00% · 2.00% · 2.32% · 1.50% · 5.00%

DATUM ELEV 6695.00

ROAD INTERSECTION STA 1+80.00 CL ELEV=6708.89

0+00	1+00	2+00	3+00	4+00	5+00	6+00	7+00	8+00	9+00	10+00
6706.8 / 6705.98	6707.7 / 6706.06	6709.9 / 6707.21	6710.0 / 6708.37	6710.6 / 6709.40	6711.0 / 6710.15	6710.2 / 6710.90	6710.2 / 6711.65	6710.4 / 6712.40	6710.7 / 6713.15	6711.6 / 6713.91	6713.7 / 6715.21	6716.8 / 6717.33	6721.0 / 6719.83	6725.3 / 6722.33	6728.5 / 6724.83	6731.1 / 6727.33	6733.4 / 6728.83	6734.5 / 6732.33	6735.6 / 6734.58	6736.7 / 6736.58

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. LEE
11-8-19
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

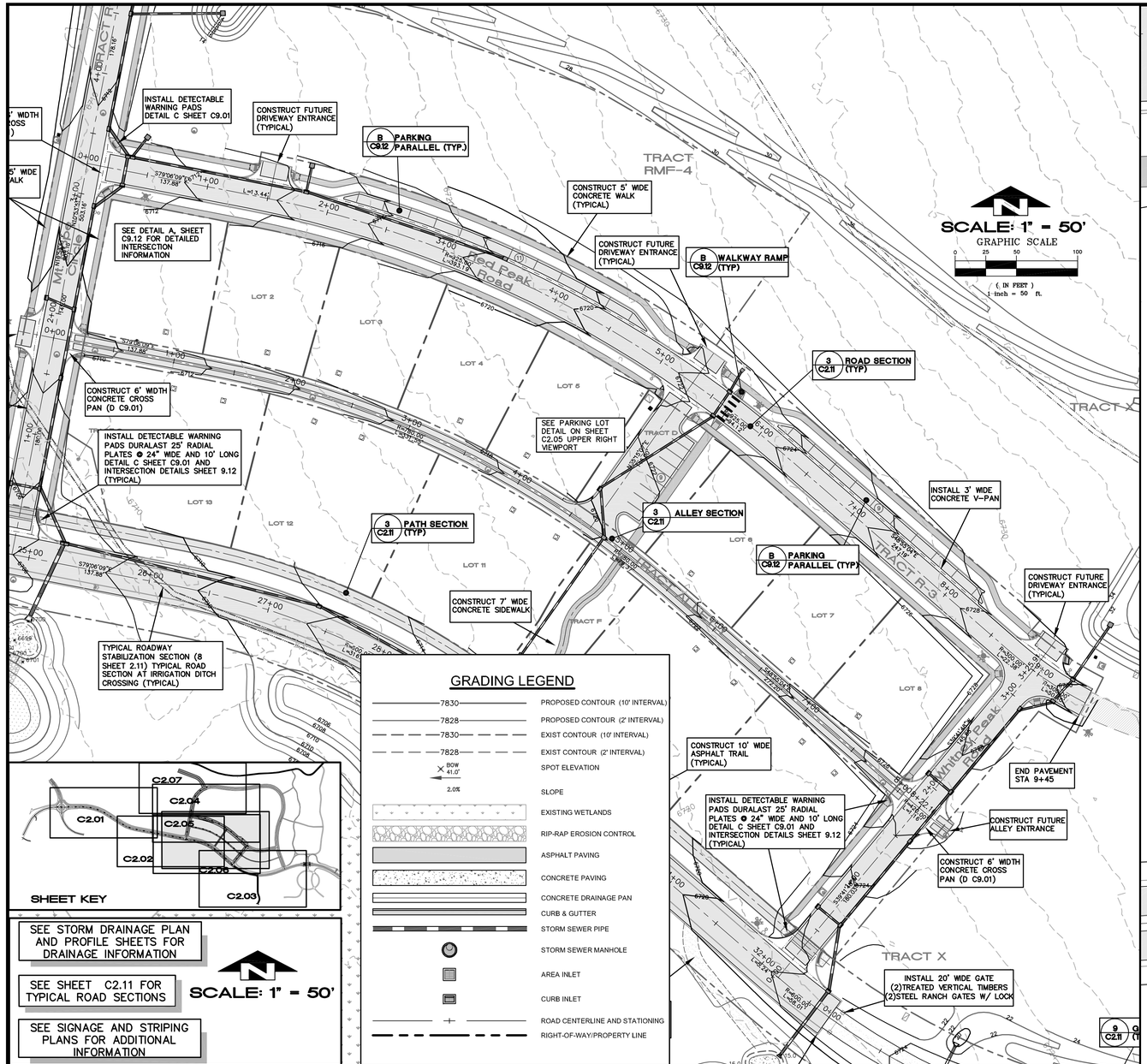
ROAD PLAN AND PROFILES

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C2.04

O:\Eagle\Haymeadow- 53480.5 - 2016\dwg\Master\Roads-Ph1.dwg, 2/20/2019 3:29:48 PM, Lee



GRADING LEGEND

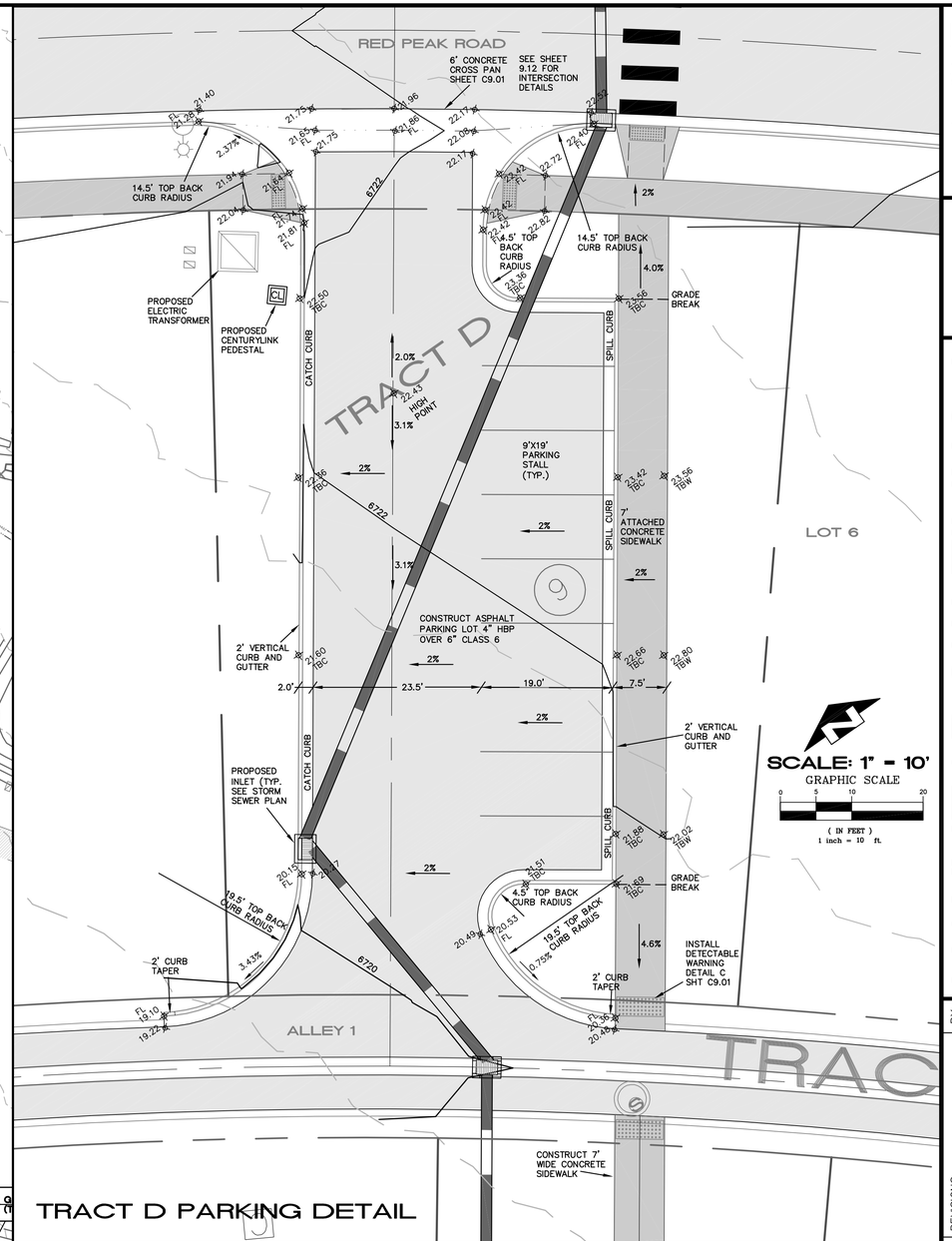
7830	PROPOSED CONTOUR (10' INTERVAL)
7828	PROPOSED CONTOUR (2' INTERVAL)
7830	EXIST CONTOUR (10' INTERVAL)
7828	EXIST CONTOUR (2' INTERVAL)
BOW 41.0'	SPOT ELEVATION
2.0%	SLOPE
	EXISTING WETLANDS
	RIP-RAP EROSION CONTROL
	ASPHALT PAVING
	CONCRETE PAVING
	CONCRETE DRAINAGE PAN
	CURB & GUTTER
	STORM SEWER PIPE
	STORM SEWER MANHOLE
	AREA INLET
	CURB INLET
	ROAD CENTERLINE AND STATIONING
	RIGHT-OF-WAY/PROPERTY LINE

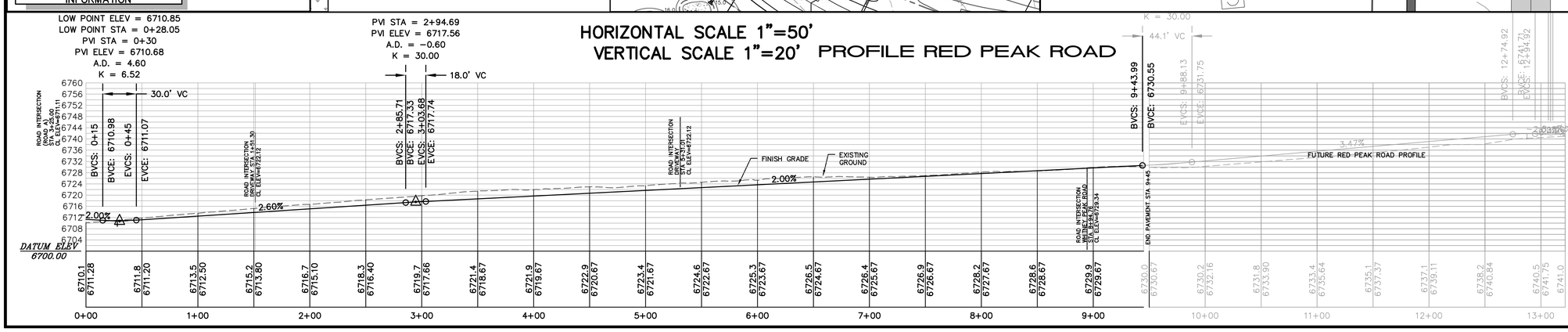
SEE STORM DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE INFORMATION

SEE SHEET C2.11 FOR TYPICAL ROAD SECTIONS

SEE SIGNAGE AND STRIPING PLANS FOR ADDITIONAL INFORMATION

SCALE: 1" = 50'





ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. MCW
11-8-19
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

ROAD PLAN AND PROFILES

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C2.05

O:\Eagle\Haymeadow- 53480.5 - 2016\dwg\Master\Roads-Ph1.dwg, 2/20/2019 3:31:01 PM, Lee

CONSTRUCT DRAINAGE SWALE W/ 2' WIDE FLAT BOTTOM AND 3:1 SIDE SLOPES

CONSTRUCT 6' WIDTH CONCRETE CROSS PAN (D C9.01)

CONSTRUCT 5' WIDE CONCRETE WALK (TYPICAL)

INSTALL DETECTABLE WARNING PADS DETAIL C SHEET C9.01

CONSTRUCT FUTURE DRIVEWAY ENTRANCE (TYPICAL)

B C9.12 PARKING PARALLEL (TYP.)

SEE DETAIL A, SHEET C9.12 FOR DETAILED INTERSECTION INFORMATION

CONSTRUCT 5' WIDE CONCRETE WALK (TYPICAL)

CONSTRUCT FUTURE DRIVEWAY ENTRANCE (TYPICAL)

B C9.12 WALKWAY RAMP (TYP)

EXISTING IRRIGATION DITCH (TYPICAL

CONSTRUCT CONCRETE CURB TAPER, MATCH SWALE FLOWLINE ELEVATION

CONSTRUCT FUTURE DRIVEWAY ENTRANCE (TYPICAL)

TYPICAL ROADWAY STABILIZATION SECTION (8 SHEET 2.11) TYPICAL ROAD SECTION AT IRRIGATION DITCH CROSSING (TYPICAL)

CONSTRUCT 2' WIDE CONCRETE CURB AND GUTTER (TYPICAL)

3 C2.11 PATH SECTION (TYP)

CONSTRUCT 6' WIDTH CONCRETE CROSS PAN (D C9.01)

INSTALL DETECTABLE WARNING PADS DURALAST 25' RADIAL PLATES @ 24" WIDE AND 10' LONG DETAIL C SHEET C9.01 AND INTERSECTION DETAILS SHEET 9.12 (TYPICAL)

3 C2.11 ROAD SECTION (TYP)

SEE PARKING LOT DETAIL ON SHEET C2.05 UPPER RIGHT VIEWPORT

3 C2.11 ALLEY SECTION

INSTALL 3' WIDE CONCRETE V-PAN

B C9.12 PARKING PARALLEL (TYP.)

3 C2.11 PATH SECTION (TYP)

3 C2.11 ROAD SECTION (TYP)

CONSTRUCT 7' WIDE CONCRETE SIDEWALK

CONSTRUCT FUTURE DRIVEWAY ENTRANCE (TYPICAL)

POND 18

SEE SHEET C9.03 FOR STORMWATER POND GRADING AND CONSTRUCTION INFORMATION

CONSTRUCT 12' WIDE GRAVEL ACCESS DRIVE WITH 6" CLASS 6 ROAD BASE (TYP.)

TYPICAL ROADWAY STABILIZATION SECTION (8 SHEET 2.11) TYPICAL ROAD SECTION AT IRRIGATION DITCH CROSSING (TYPICAL)

CONSTRUCT 10' WIDE ASPHALT TRAIL (TYPICAL)

INSTALL DETECTABLE WARNING PADS DURALAST 25' RADIAL PLATES @ 24" WIDE AND 10' LONG DETAIL C SHEET C9.01 AND INTERSECTION DETAILS SHEET 9.12 (TYPICAL)

END PAVEMENT STA 9+45

CONSTRUCT FUTURE ALLEY ENTRANCE

CONSTRUCT 6' WIDTH CONCRETE CROSS PAN (D C9.01)

CONSTRUCT 12' WIDE GRAVEL ACCESS DRIVE WITH 6" CLASS 6 ROAD BASE (TYP.)

INSTALL 20' WIDE GATE (2)TREATED VERTICAL TIMBERS (2)STEEL RANCH GATES W/ LOCK

9 C2.11 GRAVEL ROAD (TYP)

TEMPORARY IRRIGATION CUTOFF DITCH (SEE SHEET C6.0)

TRACT RMF-1

TRACT RMF-4

TRACT X

TRACT R-3

TRACT A

TRACT D

TRACT F

LOT 2 LOT 3 LOT 4 LOT 5 LOT 6 LOT 7 LOT 8 LOT 10 LOT 11 LOT 12 LOT 13

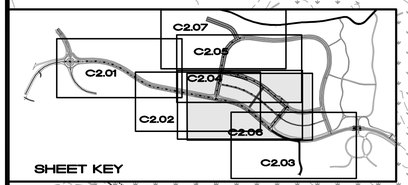
Red Peak Road

Whitney Peak Road

STY VAN LAKE ROAD

Mt. Crested Butte Drive

SHEET KEY



SEE STORM DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE INFORMATION

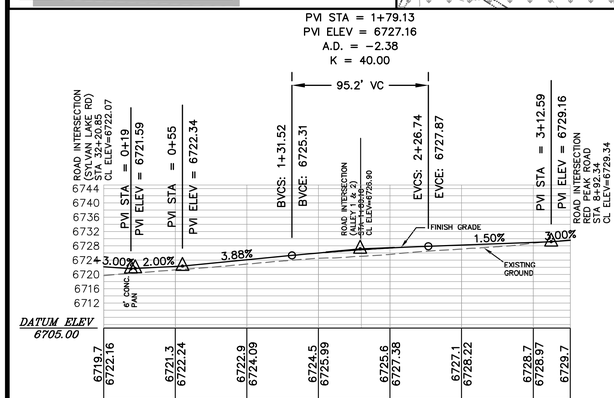
SEE SHEET C2.11 FOR TYPICAL ROAD SECTIONS

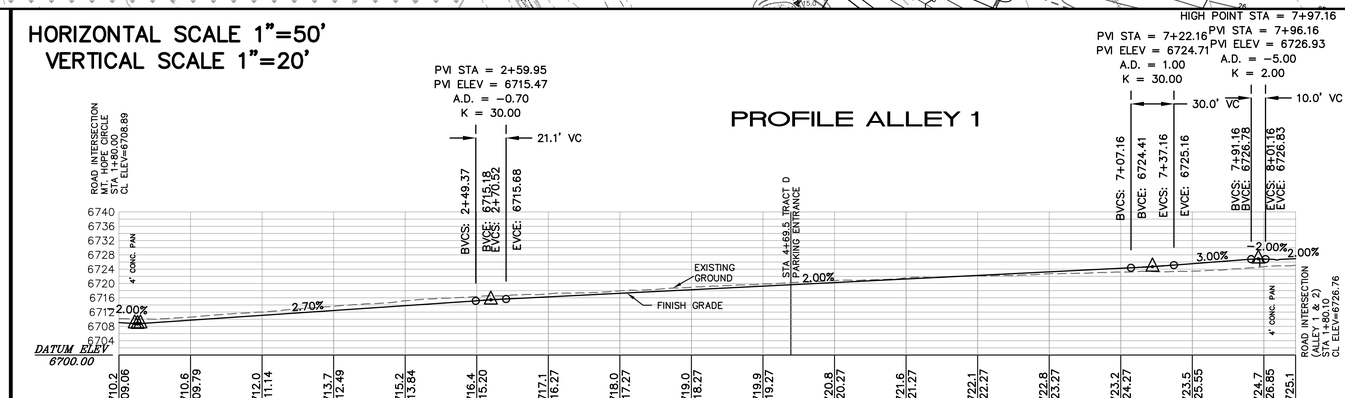
SEE SIGNAGE AND STRIPING PLANS FOR ADDITIONAL INFORMATION

SCALE: 1" = 50'

GRADING LEGEND

- 7830 — PROPOSED CONTOUR (10' INTERVAL)
- 7828 — PROPOSED CONTOUR (2' INTERVAL)
- 7830 — EXIST CONTOUR (10' INTERVAL)
- 7828 — EXIST CONTOUR (2' INTERVAL)
- BOW 41.0' — SPOT ELEVATION
- 2.0% — SLOPE
- EXISTING WETLANDS
- RIP-RAP EROSION CONTROL
- ASPHALT PAVING
- CONCRETE PAVING
- CONCRETE DRAINAGE PAN
- CURB & GUTTER
- STORM SEWER PIPE
- STORM SEWER MANHOLE
- AREA INLET
- CURB INLET
- ROAD CENTERLINE AND STATIONING
- RIGHT-OF-WAY/PROPERTY LINE





ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. GIBB
11-8-19
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

ROAD PLAN AND PROFILES

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	GB
	02/20/2019	RESPONSE TO COMMENTS	

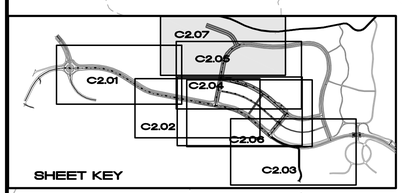
DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C2.06

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Roads-Ph1.dwg, 2/20/2019 3:31:32 PM, Lee

GRADING LEGEND

- 7830 — PROPOSED CONTOUR (10' INTERVAL)
- 7828 — PROPOSED CONTOUR (2' INTERVAL)
- 7830 — EXIST CONTOUR (10' INTERVAL)
- 7828 — EXIST CONTOUR (2' INTERVAL)
- SPOT ELEVATION (e.g. BOW 41.0')
- 2.0% — SLOPE
- EXISTING WETLANDS
- RIP-RAP EROSION CONTROL
- ASPHALT PAVING
- CONCRETE PAVING
- CONCRETE DRAINAGE PAN
- CURB & GUTTER
- STORM SEWER PIPE
- STORM SEWER MANHOLE
- AREA INLET
- CURB INLET
- ROAD CENTERLINE AND STATIONING
- RIGHT-OF-WAY/PROPERTY LINE



SHEET KEY

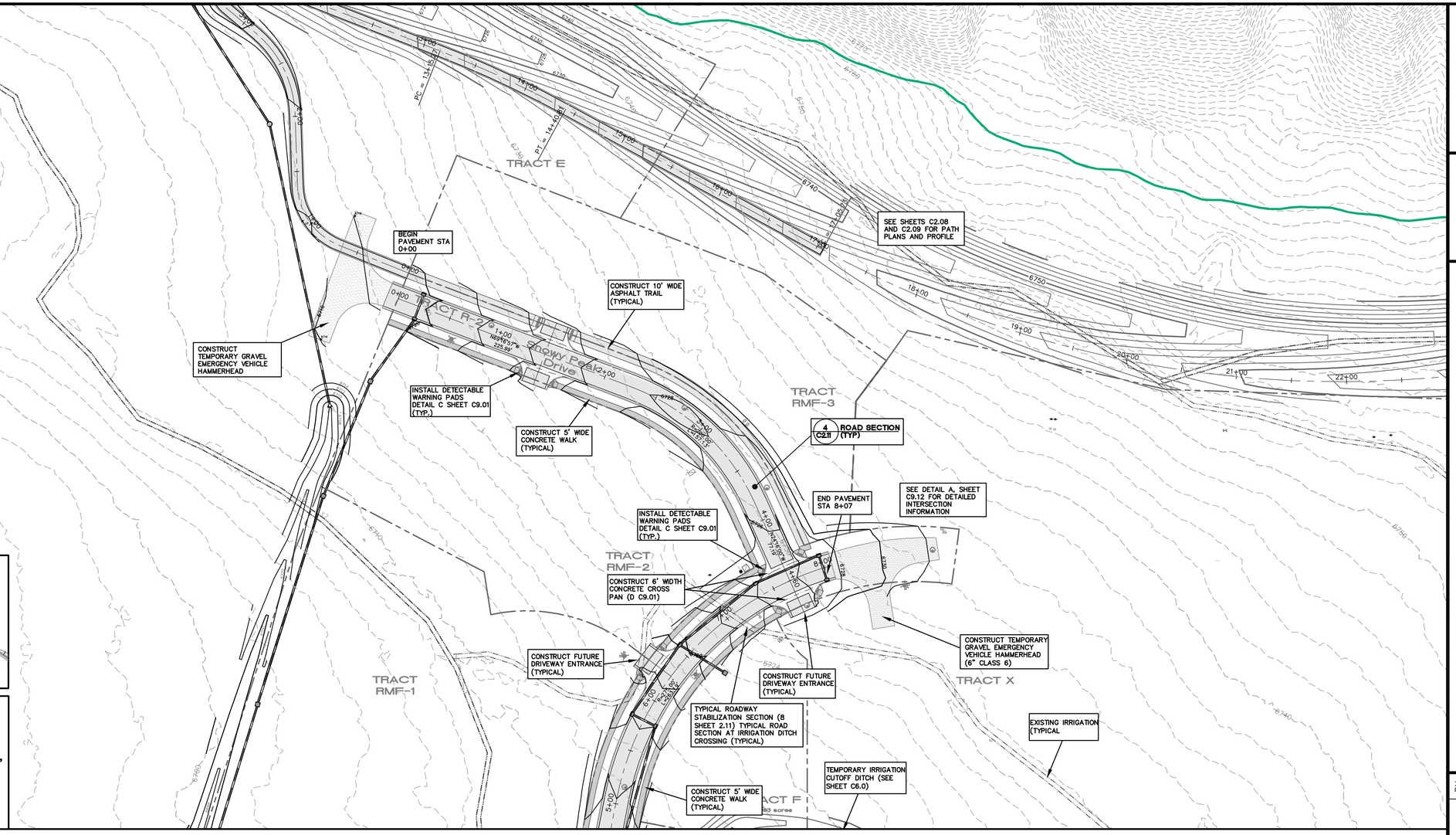
SEE STORM DRAINAGE PLAN AND PROFILE SHEETS FOR DRAINAGE INFORMATION

SEE SHEET C2.11 FOR TYPICAL ROAD SECTIONS

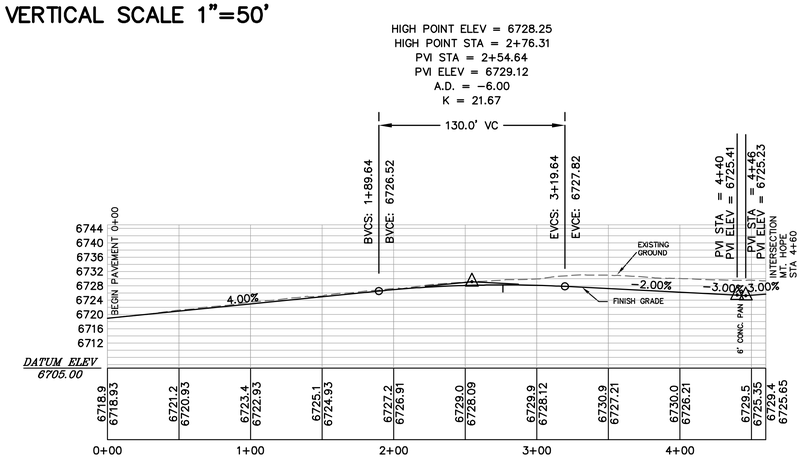
SEE SIGNAGE AND STRIPING PLANS FOR ADDITIONAL INFORMATION

N

SCALE: 1" = 50'



HORIZONTAL SCALE 1"=50'
VERTICAL SCALE 1"=50'



SNOWY PEAK DRIVE

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED MATTHEW C. LEE 11-8-19 39865 PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

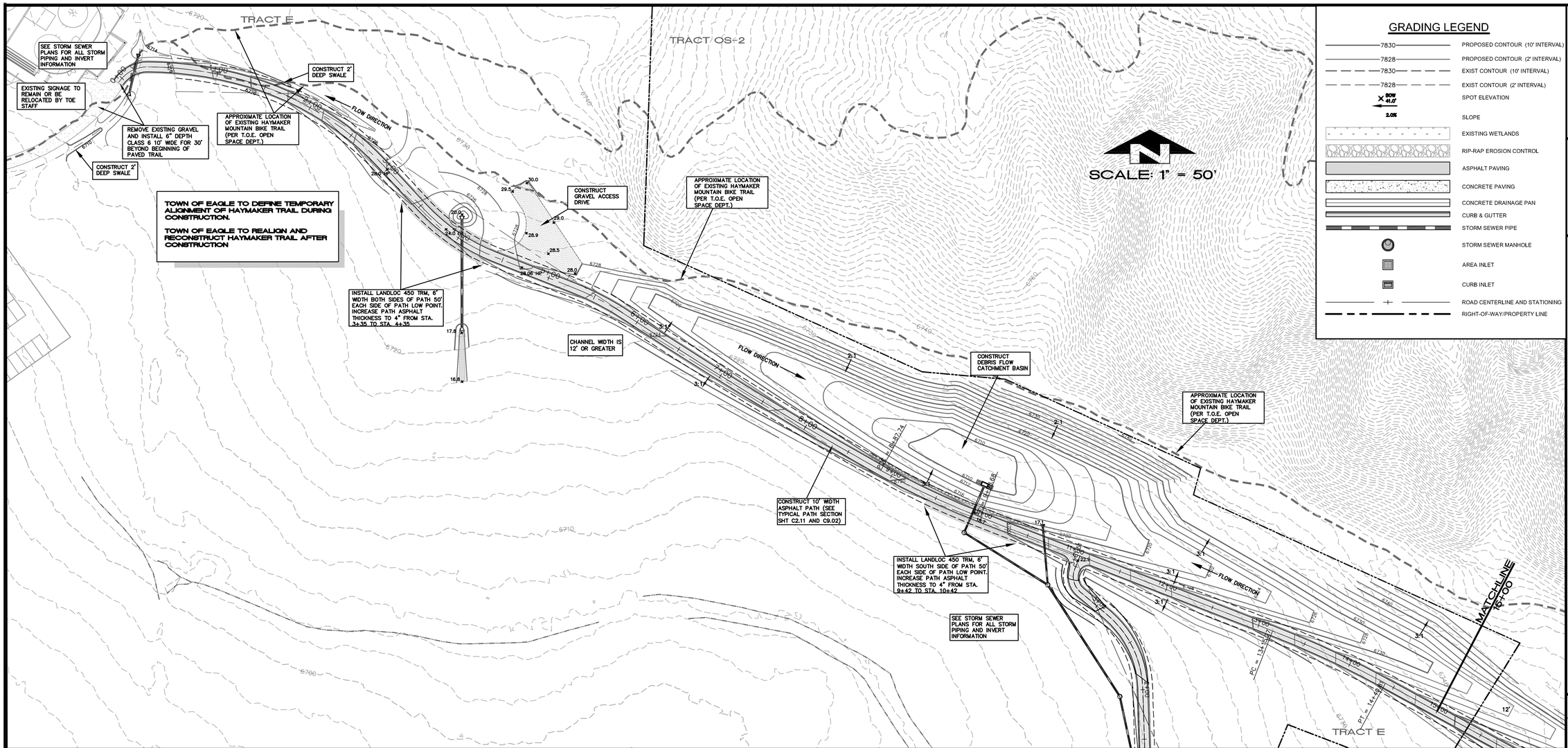
ROAD PLAN AND PROFILES

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

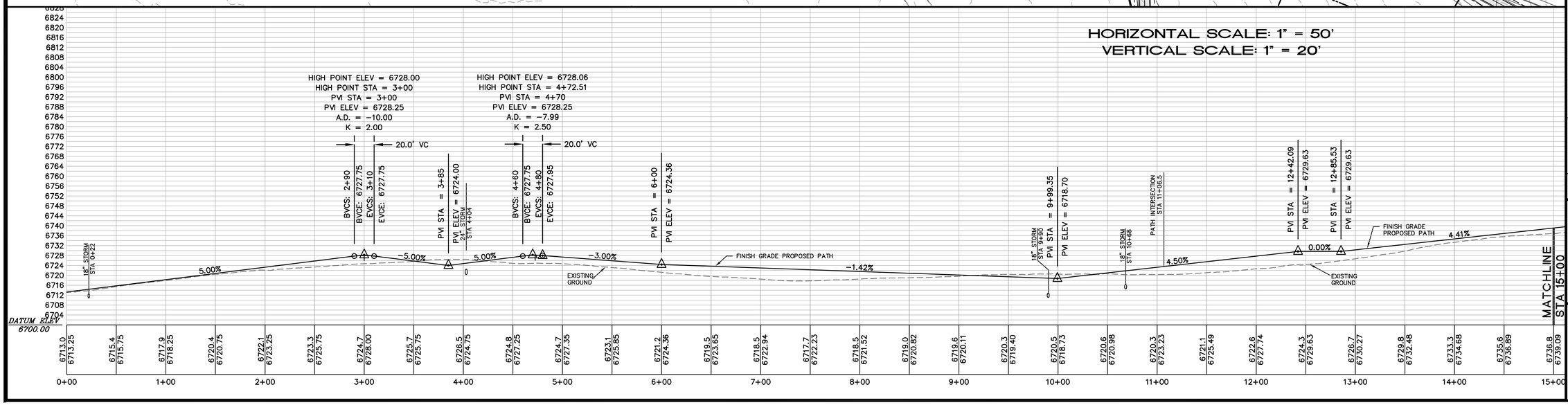
SHEET C2.07

O:\Eagle\Haymeadow- 534805- 2016\dwg\Master\Roads-Ph1.dwg, 2/20/2019 3:32:02 PM, Lee



GRADING LEGEND

- PROPOSED CONTOUR (10' INTERVAL) — 7830
- PROPOSED CONTOUR (2' INTERVAL) — 7828
- EXIST CONTOUR (10' INTERVAL) — 7830
- EXIST CONTOUR (2' INTERVAL) — 7828
- SPOT ELEVATION — FLOW 41.67
- SLOPE — 2.0%
- EXISTING WETLANDS
- RIP-RAP EROSION CONTROL
- ASPHALT PAVING
- CONCRETE PAVING
- CONCRETE DRAINAGE PAN
- CURB & GUTTER
- STORM SEWER PIPE
- STORM SEWER MANHOLE
- AREA INLET
- CURB INLET
- ROAD CENTERLINE AND STATIONING
- RIGHT-OF-WAY/PROPERTY LINE



ALPINE ENGINEERING INC.
345101 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. WEIR
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

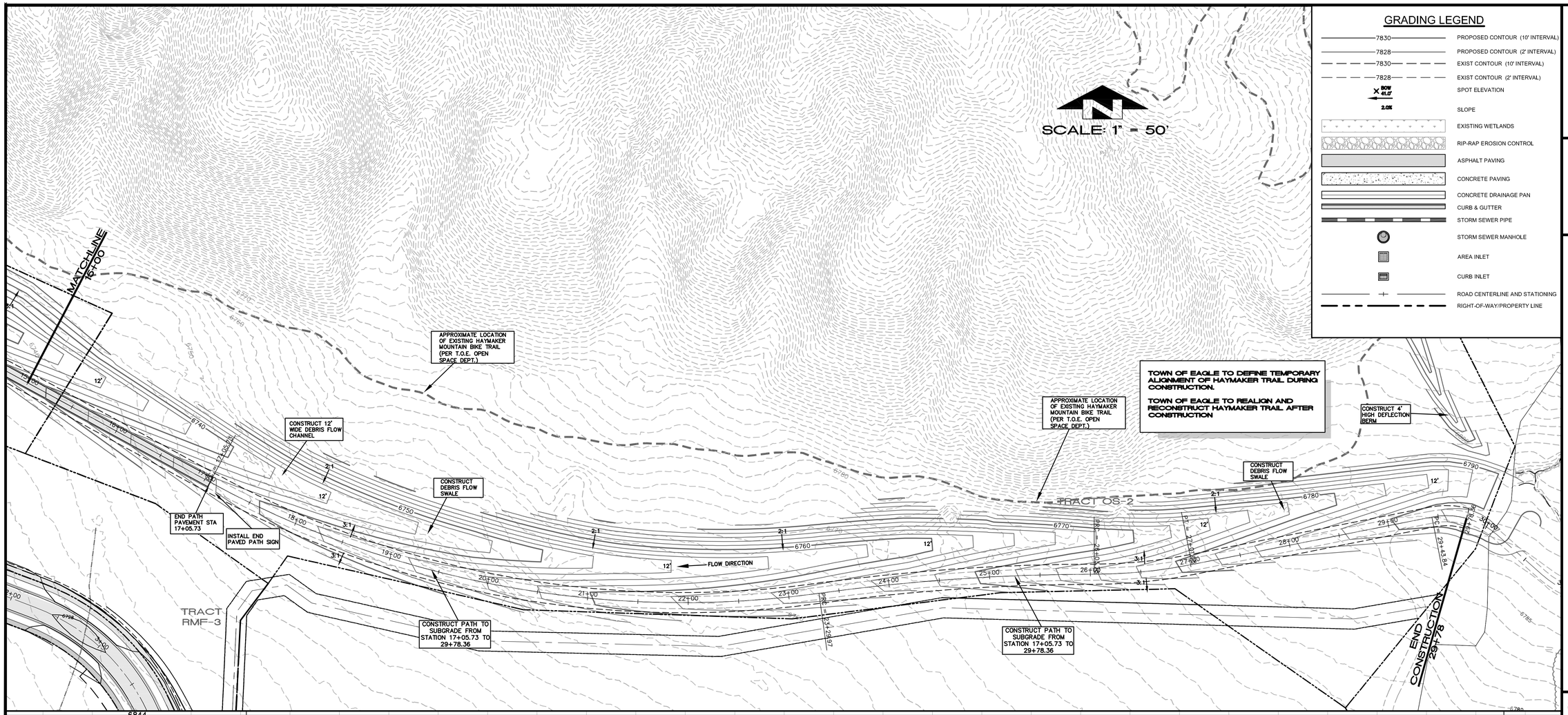
RECREATION PATH AND DEBRIS FLOW CHANNEL PLAN

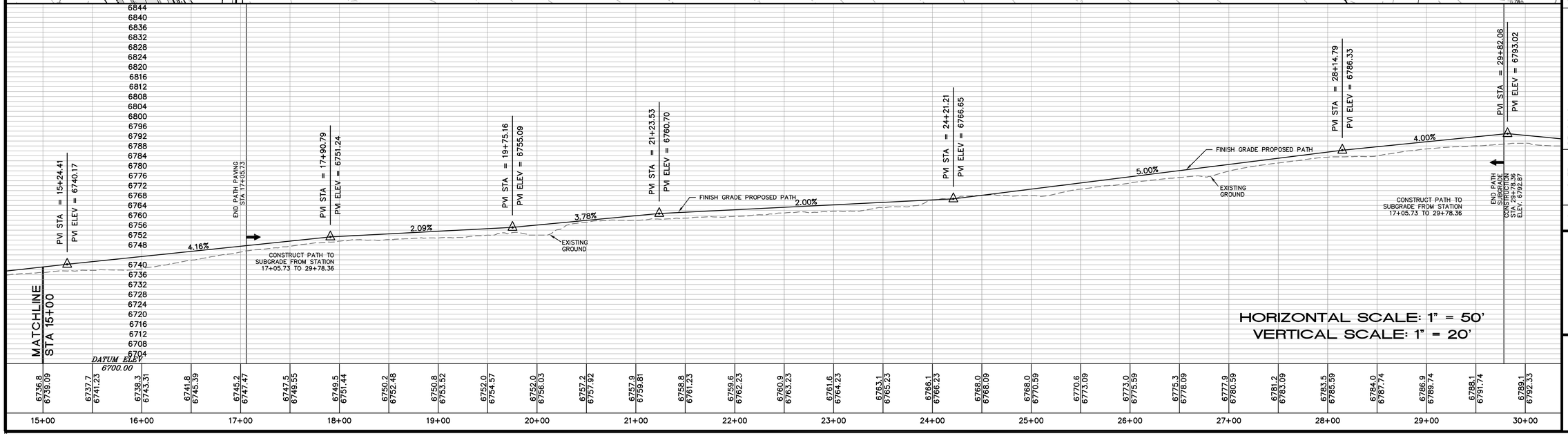
NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	GB
	02/20/2019	RESPONSE TO COMMENTS	

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET
C2.08

O:\Eagle\Haymeadow-53480.5-2016\dwg\Master\path-debris-flow-plan-ph1.dwg, 2/18/2019 11:35:55 AM, Lee





HAYMEADOW FILING 1
RECREATION PATH AND DEBRIS FLOW CHANNEL PLAN

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED MATTHEW C. WOLF 39965 PROFESSIONAL ENGINEER

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C2.09

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\path-debris-flow-plan-ph1.dwg, 2/18/2019 11:36:57 AM, Lee

GRADING LEGEND

- 7830 — CONTOUR (10' INTERVAL)
- 7828 — CONTOUR (2' INTERVAL)
- 7830 — EXIST CONTOUR (10' INTERVAL)
- 7828 — EXIST CONTOUR (2' INTERVAL)
- BOW 41.0' / 2.0% — SPOT ELEVATION
- SLOPE
- EXISTING WETLANDS
- RIP-RAP EROSION CONTROL
- ASPHALT PAVING
- CONCRETE PAVING
- CONCRETE DRAINAGE PAN
- CURB & GUTTER
- STORM SEWER PIPE
- STORM SEWER MANHOLE
- AREA INLET
- CURB INLET
- ROAD CENTERLINE AND STATIONING
- RIGHT-OF-WAY/PROPERTY LINE

CONSTRUCT 10' WIDE ASPHALT PATH

BRUSH CREEK ROAD

SEE BRUSH CREEK ROAD PLAN AND PROFILE, SHEET C2.01

END PROFILE RNDABT-NE

END PROFILE RNDABT-SW

SEE DETAIL A, SHEET C9.01 FOR SPLITTER ISLAND DETAILS.

TRACT C SOLEIL HOMES FILING 1

TRACT B SOLEIL HOMES FILING 1

SEE STORM SEWER PLANS FOR CURB INLET RIM ELEVATIONS

END FILING 1 PATH PAVING

CONCRETE CROSSWALK, DETAIL H, SHEET C9.01

PARCEL A (TOWN OF EAGLE)

RE: PROFILE RNDABT-NE

RE: PROFILE RNDABT-INNER

BEGIN PROFILE RNDABT-INNER

BEGIN PROFILE RNDABT-NE

TRANSITION BACK TO 2' WIDE VERTICAL CURB STATION 2+77

RE: PROFILE RNDABT-LNDSCP ISLAND

1.5' WIDE, 3" MOUNTABLE CATCH CURB

LANDSCAPED CENTER ISLAND, RE: LANDSCAPE PLAN (TYP)

LANDSCAPED SPLITTER ISLAND, RE: LANDSCAPE PLAN (TYP)

2' CURB TAPER

CONSTRUCT 2' DEEP DRAINAGE SWALE

BEGIN 2' CURB & GUTTER

CONCRETE CROSSWALK, DETAIL H, SHEET C9.01

PROPOSED STRIPING

SYLVAN LAKE ROAD

RE: DTL A, SHEET C9.01 FOR ROUNDABOUT DETAILS

24' WIDE TEMPORARY CONSTRUCTION ACCESS ROAD

RE: PROFILE RNDABT-SW

INSTALL 5' WIDE CURB CUT FOR LANDSCAPE MAINTENANCE ACCESS

SEE DETAIL A, SHEET C9.01 FOR SPLITTER ISLAND DETAILS.

2' CURB TAPER

END 2' CURB & GUTTER

BEGIN PROFILE RNDABT-LNDSCP ISLAND

PROPOSED SEWER MAIN

SEE SYLVAN LAKE ROAD SHEET C2.01 ROAD PLAN AND PROFILE

TRANSITION TO 2' WIDE MOUNTABLE CURB STATION 2+05

UTILITY EASEMENT

CONCRETE APRON, DTL. A, SHEET C9.01

BEGIN PROFILE RNDABT-SW

SEE SHEET C2.19 FOR ROUNDABOUT CONCRETE JOINTING PLAN

SEE SIGNAGE AND STRIPING PLANS C2.12 – C2.14

2' C/G, CATCH PAN (TYP)

CONSTRUCT A 2' WIDE BENCH BEHIND CURB

TRACT R1

PROPOSED SOFT PATH RE: LANDSCAPE

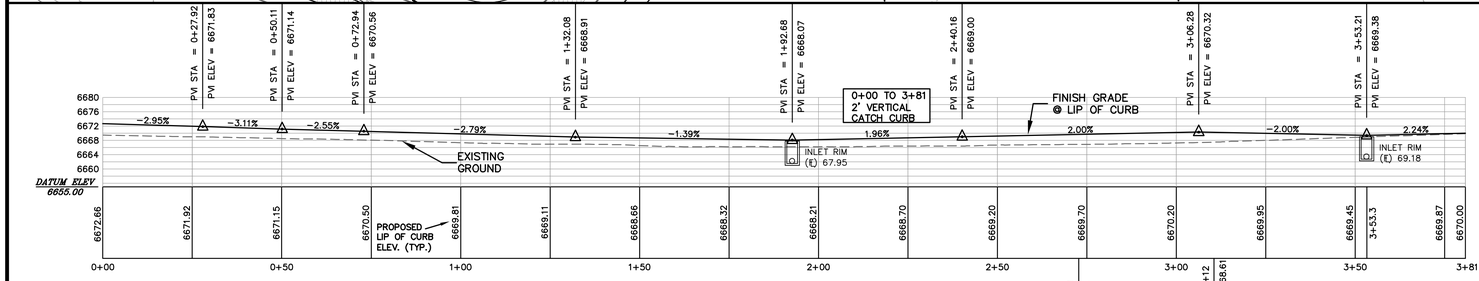
TRACT OS-1

TRACT OS-2

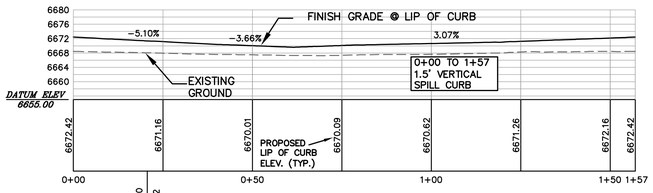
INSTALL DETECTABLE WARNING PLATES AT ALL CROSS-WALKS

SCALE: 1" = 20'

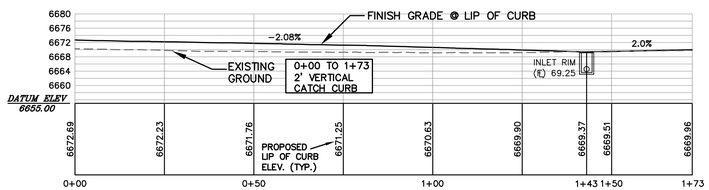
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'



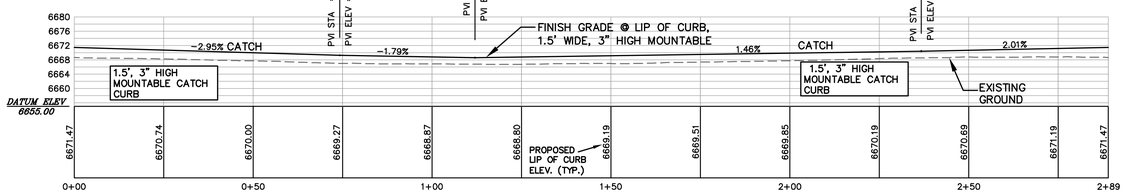
RNDABT-SW



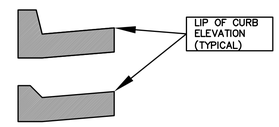
RNDABT-LNDSCP ISLAND



RNDABT-NE



RNDABT-INNER



ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED MATTHEW C. LEE 39865 PROFESSIONAL ENGINEER
11-8-18

HAYMEADOW FILING 1

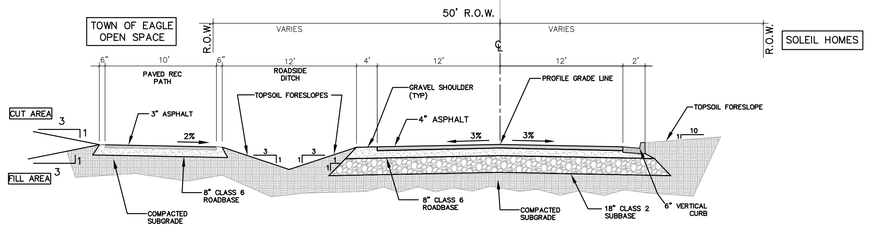
SYLVAN LAKE RD. / BRUSH CREEK RD. ROUNDABOUT CURB PROFILES

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	GB
	02/20/2019	RESPONSE TO COMMENTS	

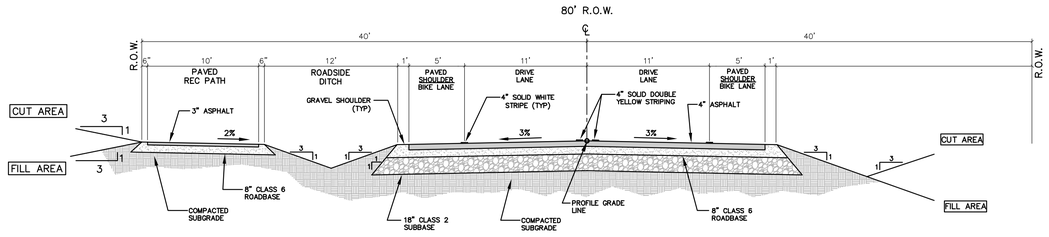
DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C2.10

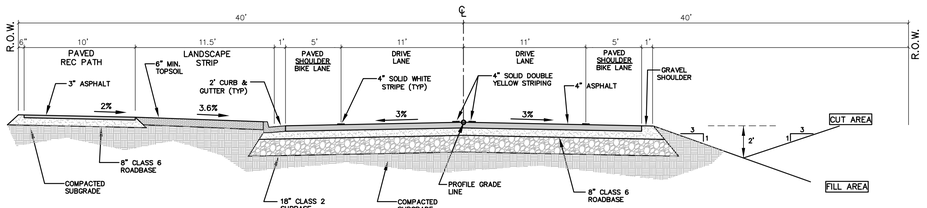
O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Roundabouts-20scale-Ph1.dwg, 2/19/2019 8:56:58 AM, Lee



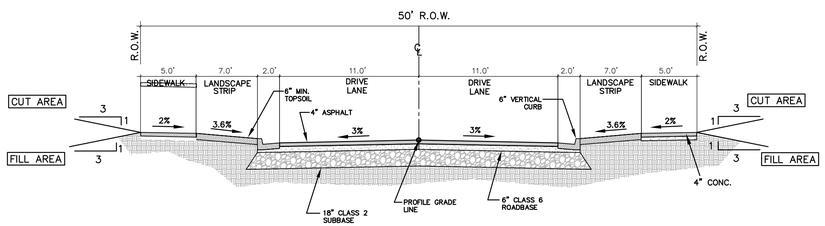
1 BRUSH CREEK ROAD



2 SYLVAN LAKE ROAD



3 SYLVAN LAKE ROAD

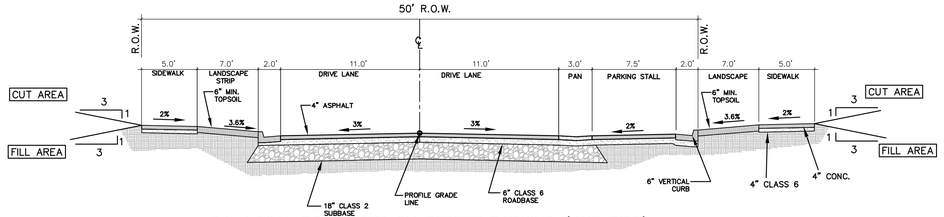


4 LOCAL ROAD W/ CURB, GUTTER & SIDEWALKS

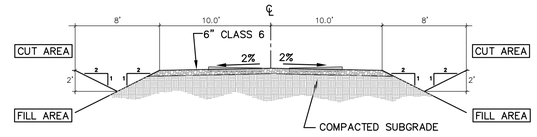
SECTION	ROAD NAME	STATION
1	BRUSH CREEK ROAD	0+66 TO 2+92
2	SYLVAN LAKE ROAD	8+27.25 TO 21+50
3	SYLVAN LAKE ROAD	21+50 TO 32+70
4	MT. HOPE CIRCLE	0+00 TO 8+00
4	RED PEAK ROAD	0+00–2+00; 8+40–9+43
5	RED PEAK ROAD	2+00 TO 8+40
4	WHITNEY PEAK ROAD	0+00 TO 3+26
4	SNOWY PEAK DRIVE	0+00 TO 4+50
7	ALLEY 1	0+00 TO 8+10
8	ALL ROADS	AS NEEDED
9	EMERGENCY ACCESS	0+00 TO 3+75

PAVEMENT SECTION:

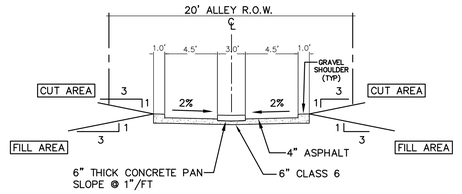
PER HP KUMAR SUPPLEMENTAL SUBSOIL STUDY FOR SITE GRADING AND PAVEMENT SECTION DESIGN PROJECT NO. 17-7-676 DATED 3-21-18 AND RECOMMENDATIONS FOR PAVEMENT DESIGN AND ROADWAY SUBGRADE STABILIZATION PROJECT NO. 17-7-676 DATED 1-31-19.



5 LOCAL ROAD WITH ON STREET PARKING (ONE SIDE)



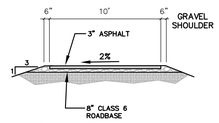
6 20' GRAVEL ROAD



7 ALLEY SECTION

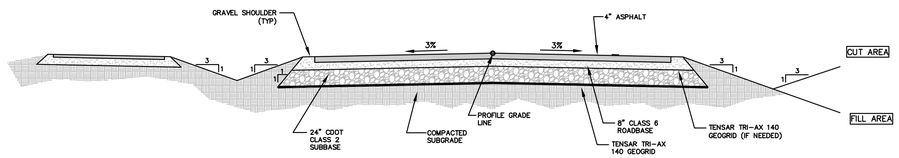
NOTE:

INCREASE ASPHALT THICKNESS TO 4" ON THE RECREATION PATH ON DEBRIS FLOW CHANNEL FROM STATION 3+35 TO 4+35 AND STA. 9+42 TO 10+42.

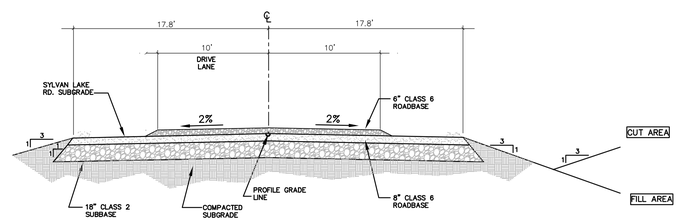


10' RECREATION PATH

80' R.O.W.



8 TYPICAL ROADWAY STABILIZATION SECTION
HP KUMAR FIGURE 1



9 EMERGENCY ACCESS RD.
STATION 0+00 TO 3+75

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EAGLE, COLORADO 81631
970.328.5373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. LEE
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

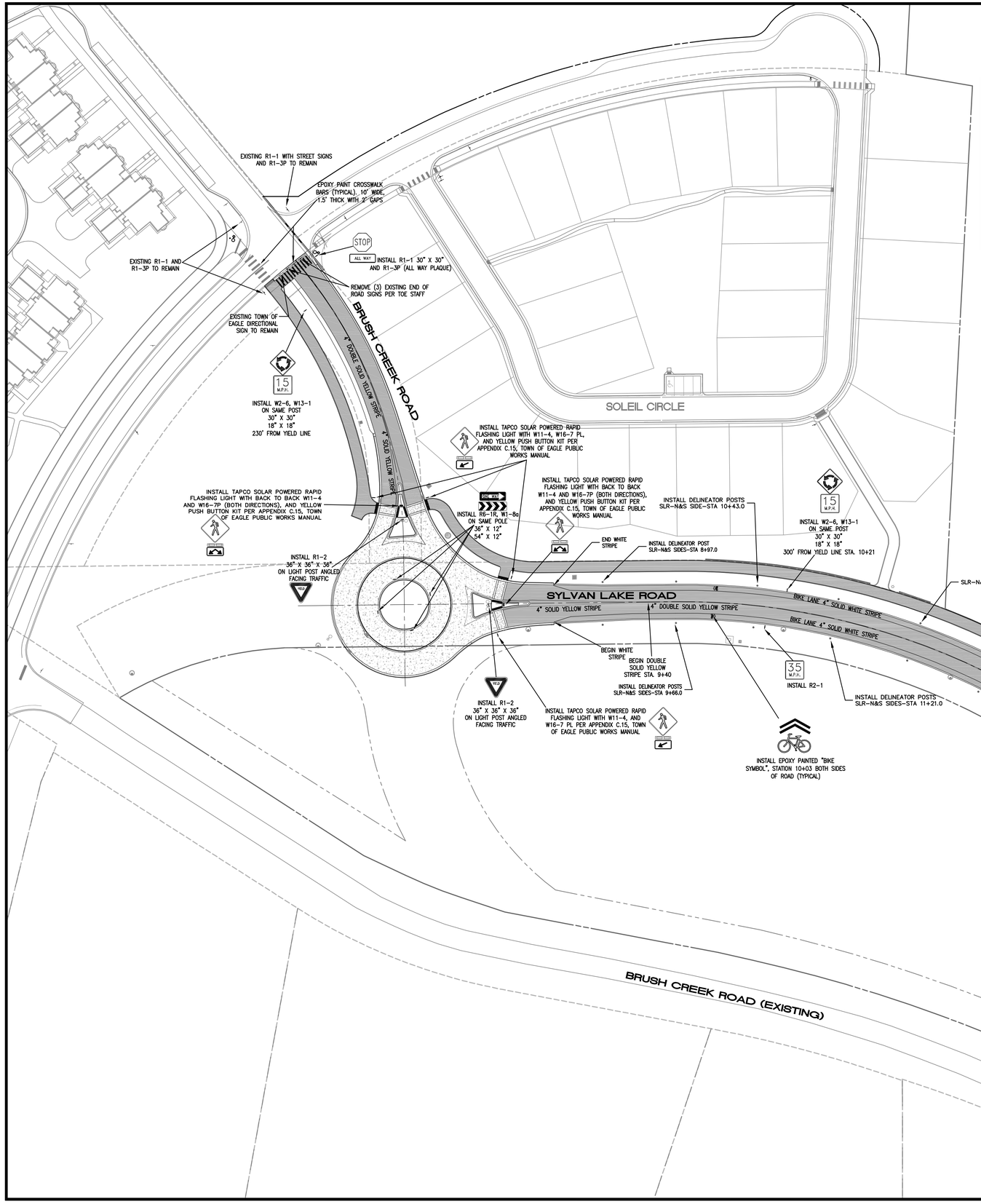
TYPICAL ROAD SECTIONS

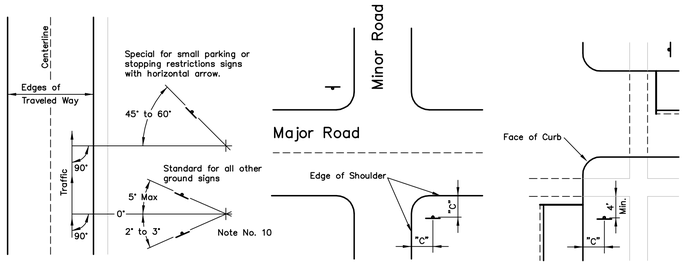
NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	GB
	02/20/2019	RESPONSE TO COMMENTS	

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C2.11

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Road-Typical Sections-Ph1.dwg, 2/18/2019 11:33:52 AM, Lee





General Notes:

1. The Engineer shall establish grades and locations for all signs post in accordance with details shown on plans.
2. Special care shall be taken in sign location to ensure an unobstructed view of each sign
3. Minimum lateral placement is measured from face of curb or from any surface prepared for normal or emergency travel of vehicles.
4. Normal lateral placement is measured from the edge of the travel lane.
5. In urban areas a lateral clearance of 1' from the curb face is permissible where sidewalk width is limited or where existing poles are close to the curb.
6. A minimum post length shall be maintained from bottom of sign panel to the ground or the top of footing.
7. "Educational Plaques" for symbol signs will not be considered when determining vertical placement.
8. When lateral placement is 30' or more for signs without a supplemental panel, vertical placement "D" may be reduced to 5'. When lateral placement is 30' or more for signs with a supplemental panel, vertical placement "F" does not apply – use only vertical placement "H".
9. Normal angular placement is 0°. Signs closer than 30' should be turned slightly away to minimize specular reflection. Signs placed 30' or more should be generally be turned toward the road.
10. The exit panel is mounted on the right hand side for right hand exits and the left side for left hand exits.

Vertical Placement (Minimum)			
Key	Freeways and Expressways	Conventional Streets and Highways	
		Urban	Rural
D	7'–0" or Note No. 9	7'–0"	5'–0"
E	6'–0"	7'–0"	5'–0"
F	8'–0" or Note No. 9	7'–0"	5'–0"
G	6'–0"	6'–0"	4'–0"
H	5'–0"	6'–0"	4'–0"

PLACEMENT TABLES

Lateral Placement		
Key	All Classes of Streets and Highways	
	Minimum	Normal
*A	2'–0" & Note No. 4	12'–0" plus Curb or Shoulder Width
*B	2'–0" & Note No. 4	30'–0" or more includes Curb or Shoulder
*C	2'–0" & Note No. 4	6'–0" plus Curb or Shoulder Width or if none 12'–0"

*See Note No. 6

NOTE: THE CONTRACTOR SHALL PLACE, CONSTRUCT AND INSTALL ALL SIGNAGE AND ROADWAY STRIPING IN CONFORMANCE WITH MUTCD AND TOWN OF EAGLE SPECIFICATIONS.

CONTRACTOR SHALL BE AWARE OF STORM SEWER PIPES AND SHALLOW UTILITIES WHEN INSTALLING SIGNS.

SCALE: 1" = 50'

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. RIEF
11-8-19
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

SIGNAGE AND STRIPING PLAN

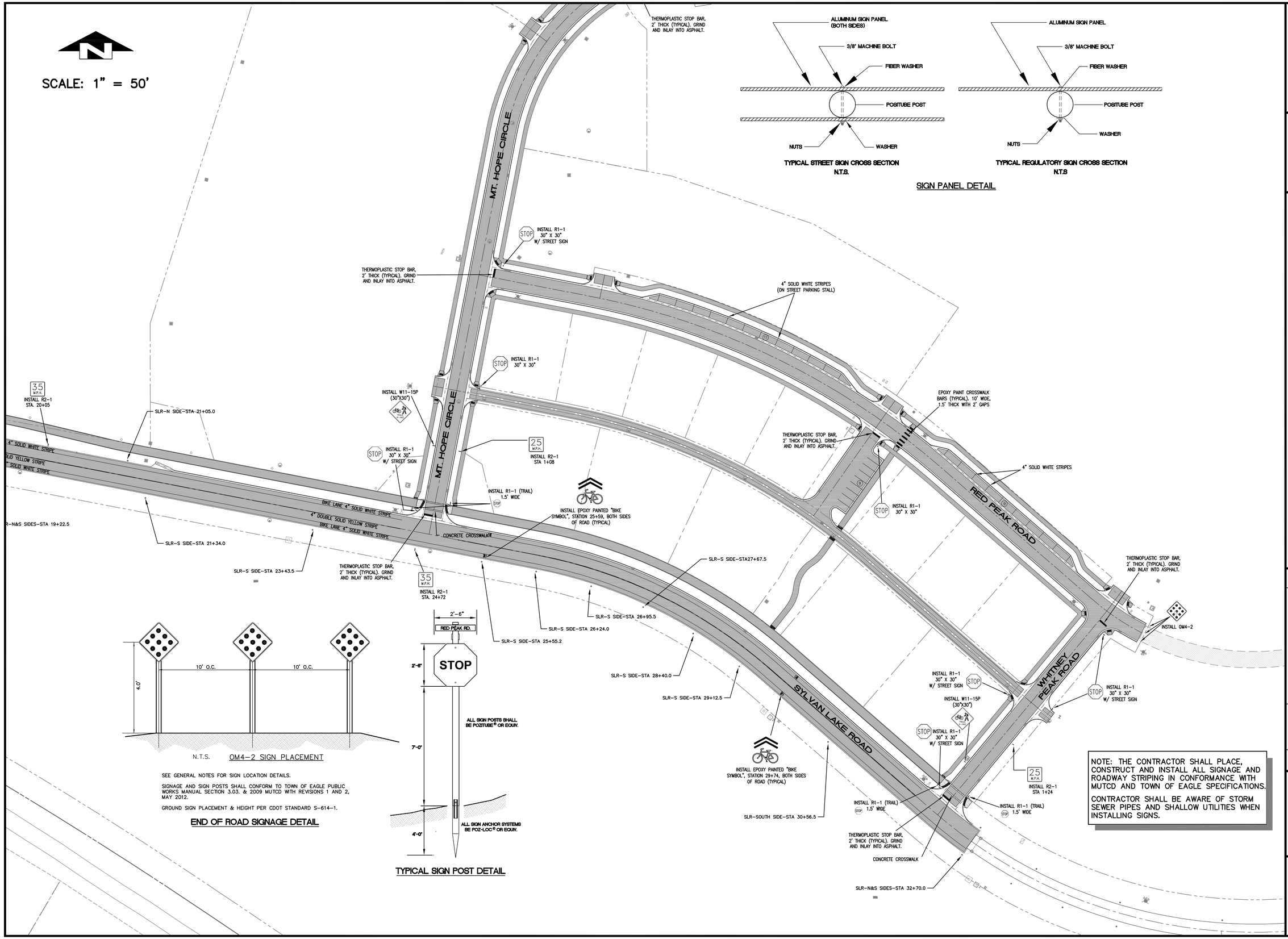
NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C2.12

O:\Eagle\Haymeadow+ 53480.5~ 2016\dwg\Master\Signage and Striping-Filing 1.dwg 2/20/2019 11:26:14 AM Brooks

SCALE: 1" = 50'



TYPICAL STREET SIGN CROSS SECTION
N.T.S.

TYPICAL REGULATORY SIGN CROSS SECTION
N.T.S

SIGN PANEL DETAIL

N.T.S. OM4-2 SIGN PLACEMENT

SEE GENERAL NOTES FOR SIGN LOCATION DETAILS.

SIGNAGE AND SIGN POSTS SHALL CONFORM TO TOWN OF EAGLE PUBLIC WORKS MANUAL SECTION 3.03. & 2009 MUTCD WITH REVISIONS 1 AND 2, MAY 2012.

GROUND SIGN PLACEMENT & HEIGHT PER CDOT STANDARD S-614-1.

END OF ROAD SIGNAGE DETAIL

TYPICAL SIGN POST DETAIL

NOTE: THE CONTRACTOR SHALL PLACE, CONSTRUCT AND INSTALL ALL SIGNAGE AND ROADWAY STRIPING IN CONFORMANCE WITH MUTCD AND TOWN OF EAGLE SPECIFICATIONS.

CONTRACTOR SHALL BE AWARE OF STORM SEWER PIPES AND SHALLOW UTILITIES WHEN INSTALLING SIGNS.

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. WEBER
11-8-19
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

SIGNAGE AND STRIPING PLAN

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED	MW, RL
DRAWN	RF
CHECKED	MCW
JOB NO.	53480.5
DATE	02/20/2019

SHEET C2.13

O:\Eagle\Haymeadow+ 53480.5+ 2016\Engr\Master\Signage and Striping-Filing 1.dwg, 2/20/2019 11:27:02 AM, Brooks

INSTALL R1-1 (TRAIL)
1.5" WIDE

INSTALL OM4-2

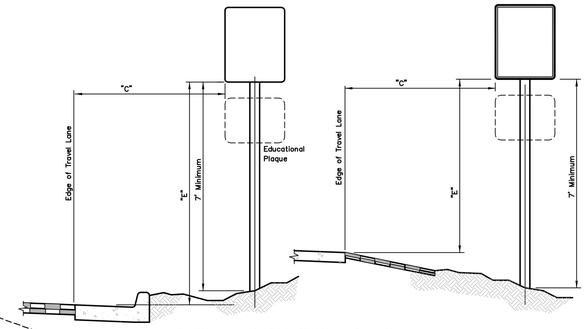
SNOWY PEAK DRIVE

INSTALL R1-1
30" X 30"
W/ STREET SIGN

INSTALL OM4-2

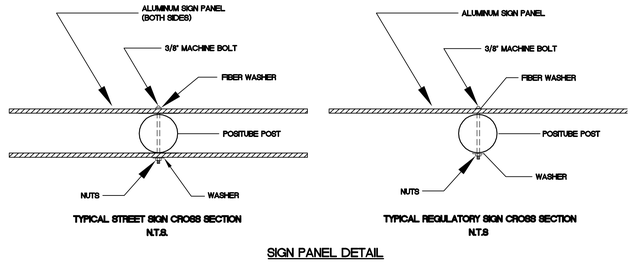
THERMOPLASTIC STOP BAR, 2' THICK (TYPICAL), GRIND AND INLAY INTO ASPHALT.

MT. HOPE CIRCLE



REGULATORY SIGN PLACEMENT
NOT TO SCALE

SCALE: 1" = 50'



TYPICAL STREET SIGN CROSS SECTION
N.T.S.

TYPICAL REGULATORY SIGN CROSS SECTION
N.T.S

SIGN PANEL DETAIL

INSTALL R1-1
30" X 30"
W/ STREET SIGN

THERMOPLASTIC STOP BAR, 2' THICK (TYPICAL), GRIND AND INLAY INTO ASPHALT.

4" SOLID WHITE STRIPES (ON STREET PARKING STALL)

INSTALL R1-1
30" X 30"

INSTALL W11-15P (30"X30")

INSTALL R2-1
STA 1+08

EPOXY PAINT CROSSWALK BARS (TYPICAL) 10' WIDE, 1.5' THICK WITH 2' GAPS

THERMOPLASTIC STOP BAR, 2' THICK (TYPICAL), GRIND AND INLAY INTO ASPHALT.

INSTALL R1-1
30" X 30"

4" SOLID WHITE STRIPES

RED PEAK ROAD

INSTALL R1-1 (TRAIL)
1.5' WIDE

INSTALL EPOXY PAINTED "BIKE SYMBOL", STATION 25+59, BOTH SIDES OF ROAD (TYPICAL)

CONCRETE CROSSWALK

THERMOPLASTIC STOP BAR, 2' THICK (TYPICAL), GRIND AND INLAY INTO ASPHALT.

INSTALL R2-1

SLR-S SIDE-STA27+67.5

THERMOPLASTIC STOP BAR, 2' THICK (TYPICAL), GRIND AND INLAY INTO ASPHALT.

A 17+06.0

R-N&S SIDES-STA 17+73.0

BOLLARD LIGHT (TYPICAL)

INSTALL R2-1
STA 20+05

SLR-N SIDE-STA 21+05.0

BIKE LANE 4" SOLID WHITE STRIPE
4" DOUBLE SOLID YELLOW STRIPE
BIKE LANE 4" SOLID WHITE STRIPE

Y PAINTED "BIKE
18+13 BOTH SIDES
D (TYPICAL)

SLR-N&S SIDES-STA 19+22.5

SLR-S SIDE-STA 21+34.0

SLR-S SIDE-STA 23+43.5

NOTE: THE CONTRACTOR SHALL PLACE, CONSTRUCT AND INSTALL ALL SIGNAGE AND ROADWAY STRIPING IN CONFORMANCE WITH MUTCD AND TOWN OF EAGLE SPECIFICATIONS.

CONTRACTOR SHALL BE AWARE OF STORM SEWER PIPES AND SHALLOW UTILITIES WHEN INSTALLING SIGNS.

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. WILSON
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

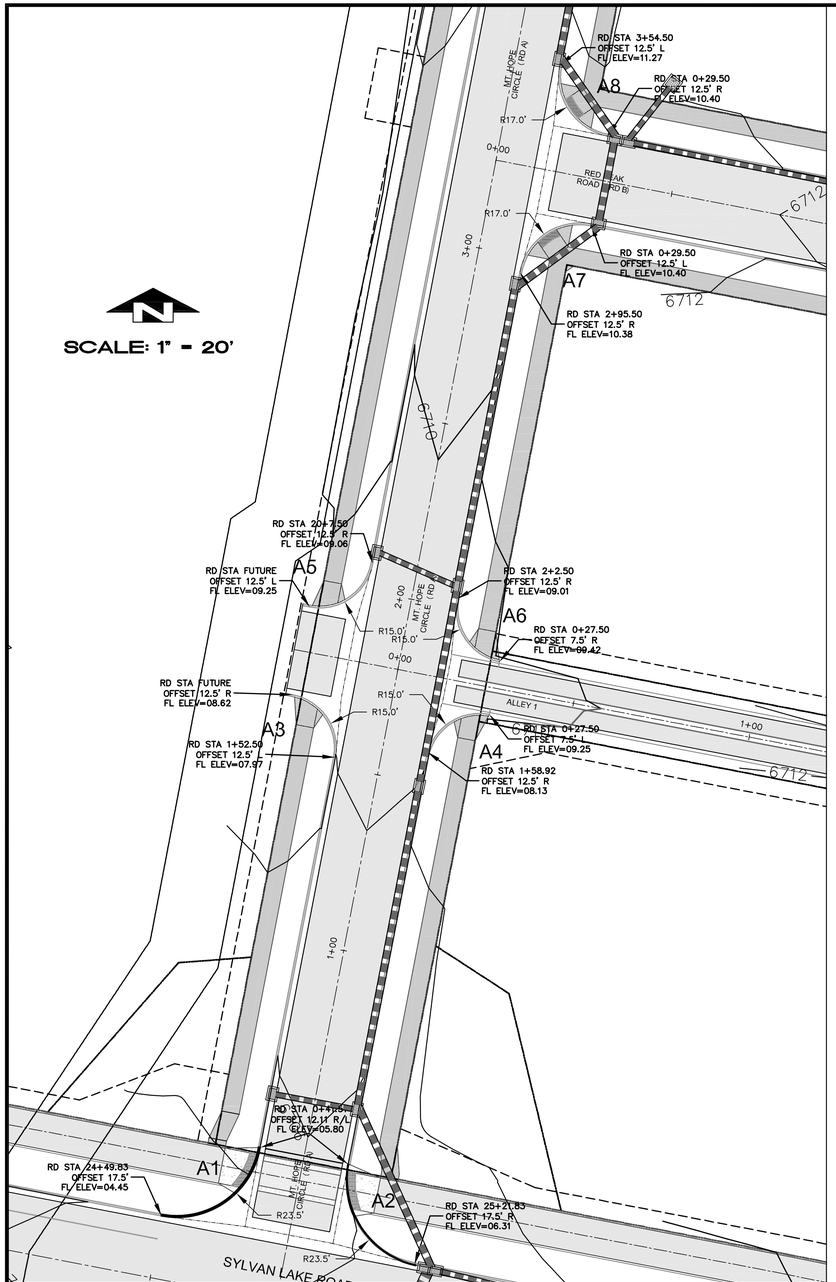
SIGNAGE AND STRIPING PLAN

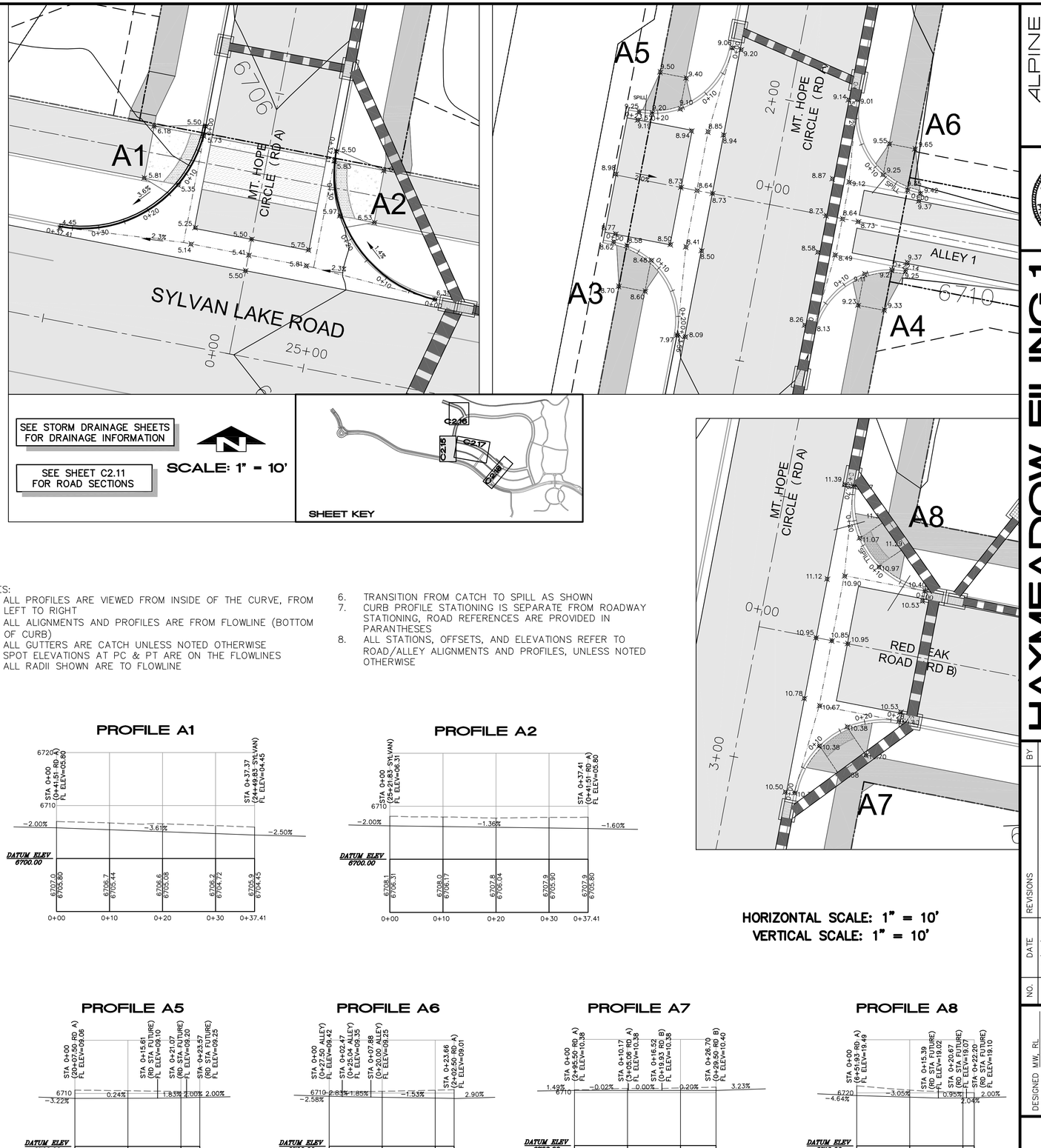
NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET
C2.14

O:\Eagle\Haymeadow+ 53480.5~ 2016\Eng\MasterSignage and Striping-Filing 1.dwg, 2/20/2019 11:27:30 AM, Brooks



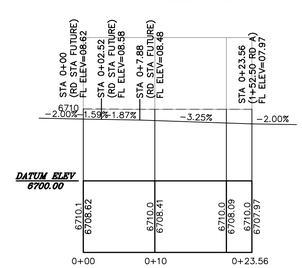


NOTES:
1. ALL PROFILES ARE VIEWED FROM INSIDE OF THE CURVE, FROM LEFT TO RIGHT
2. ALL ALIGNMENTS AND PROFILES ARE FROM FLOWLINE (BOTTOM OF CURB)
3. ALL GUTTERS ARE CATCH UNLESS NOTED OTHERWISE
4. SPOT ELEVATIONS AT PC & PT ARE ON THE FLOWLINES
5. ALL RADII SHOWN ARE TO FLOWLINE
6. TRANSITION FROM CATCH TO SPILL AS SHOWN
7. CURB PROFILE STATIONING IS SEPARATE FROM ROADWAY STATIONING, ROAD REFERENCES ARE PROVIDED IN PARANTHESES
8. ALL STATIONS, OFFSETS, AND ELEVATIONS REFER TO ROAD/ALLEY ALIGNMENTS AND PROFILES, UNLESS NOTED OTHERWISE

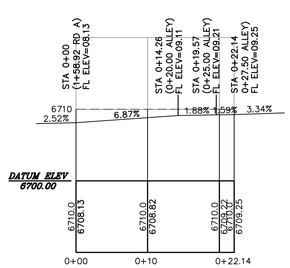
PROFILE A1

PROFILE A2

PROFILE A3



PROFILE A4



PROFILE A5

PROFILE A6

PROFILE A7

PROFILE A8

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 10'

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

MATTHEW C. GRAY
11-8-19
39865
COLORADO LICENSED
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

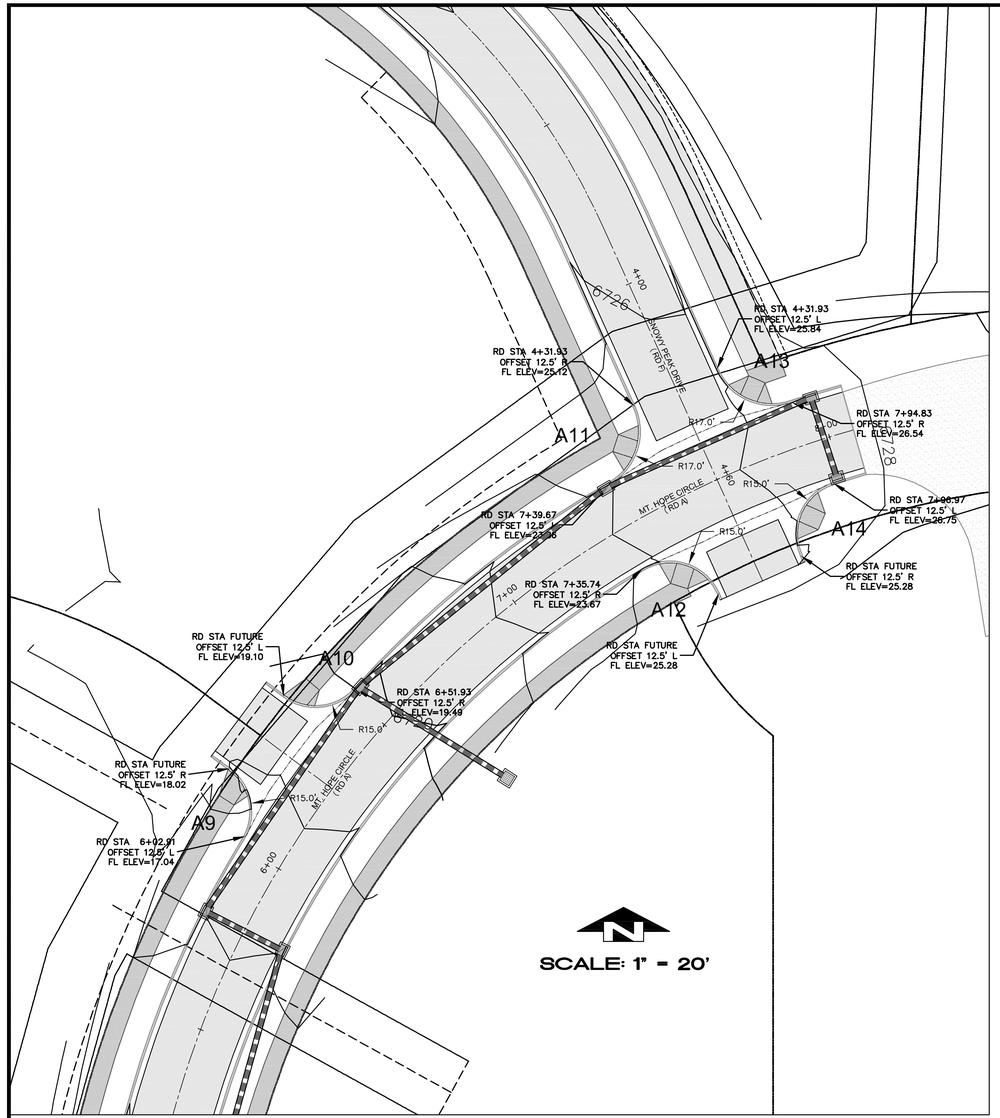
CURB AND GUTTER PROFILES

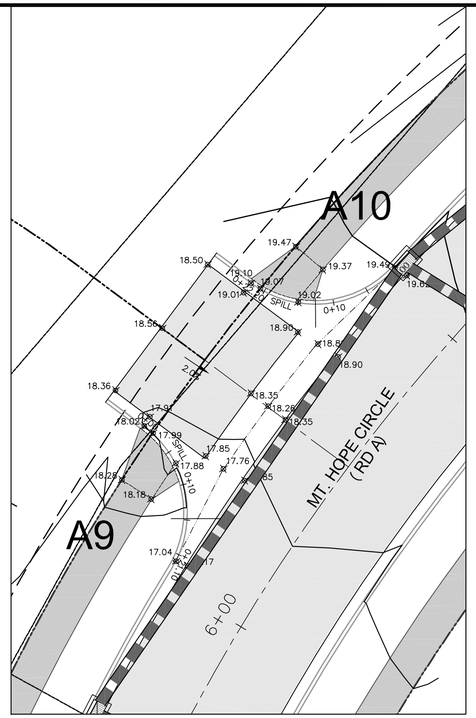
NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

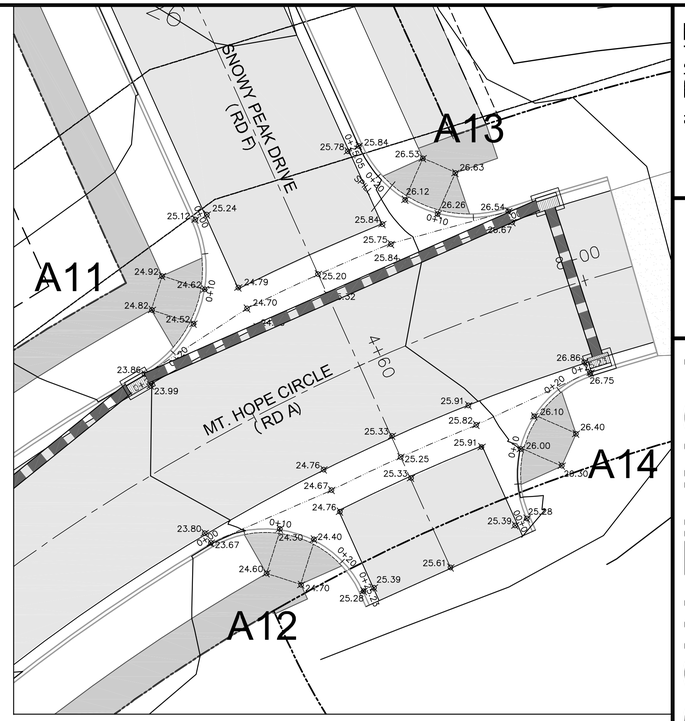
DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

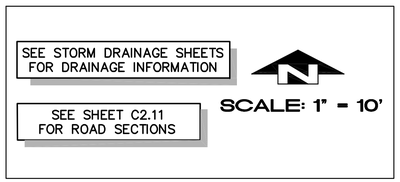
SHEET
C2.15

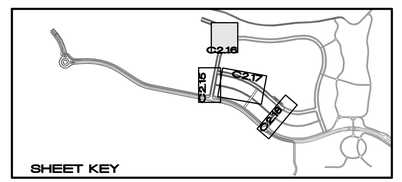
O:\Eagle\Haymeadow- 53480.5 - 2016\dwg\Master\Curb-Profiles.dwg, 2/19/2019 9:08:01 AM, Lee





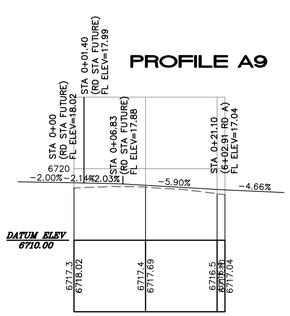


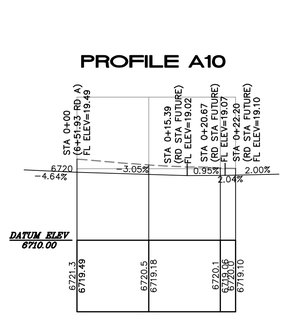


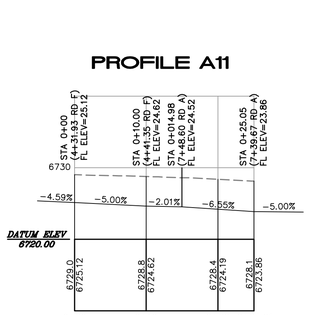


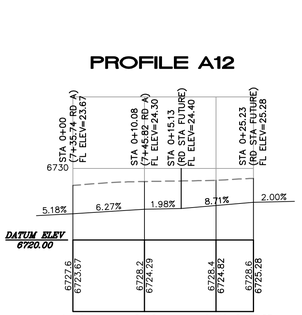
HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 10'

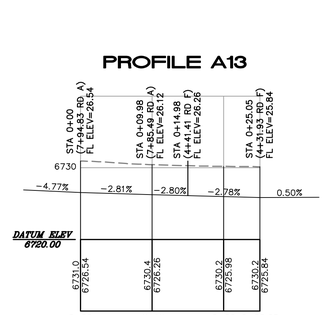
NOTES:
1. ALL PROFILES ARE VIEWED FROM INSIDE OF THE CURVE, FROM LEFT TO RIGHT
2. ALL ALIGNMENTS AND PROFILES ARE FROM FLOWLINE (BOTTOM OF CURB)
3. ALL GUTTERS ARE CATCH UNLESS NOTED OTHERWISE
4. SPOT ELEVATIONS AT PC & PT ARE ON THE FLOWLINES
5. ALL RADII SHOWN ARE TO FLOWLINE
6. TRANSITION FROM CATCH TO SPILL AS SHOWN
7. CURB PROFILE STATIONING IS SEPARATE FROM ROADWAY STATIONING, ROAD REFERENCES ARE PROVIDED IN PARANTHESES
8. ALL STATIONS, OFFSETS, AND ELEVATIONS REFER TO ROAD/ALLEY ALIGNMENTS AND PROFILES, UNLESS NOTED OTHERWISE

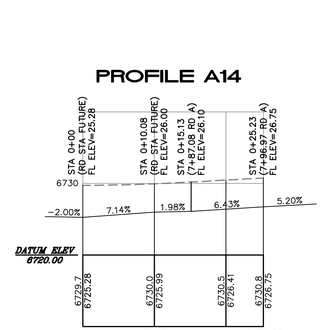












ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. HAYMEA
11-8-19
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

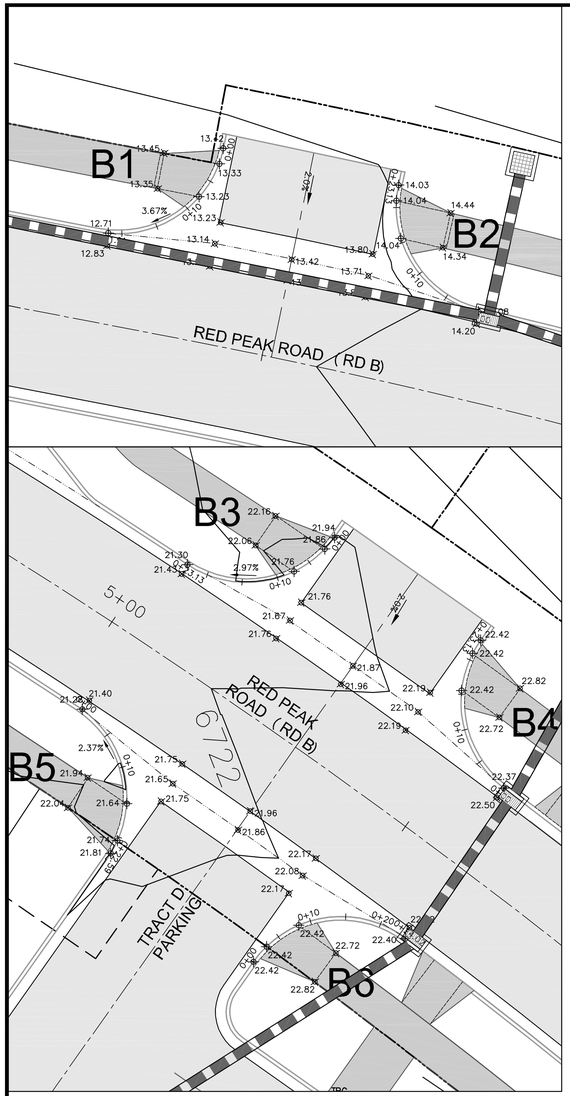
CURB AND GUTTER PROFILES

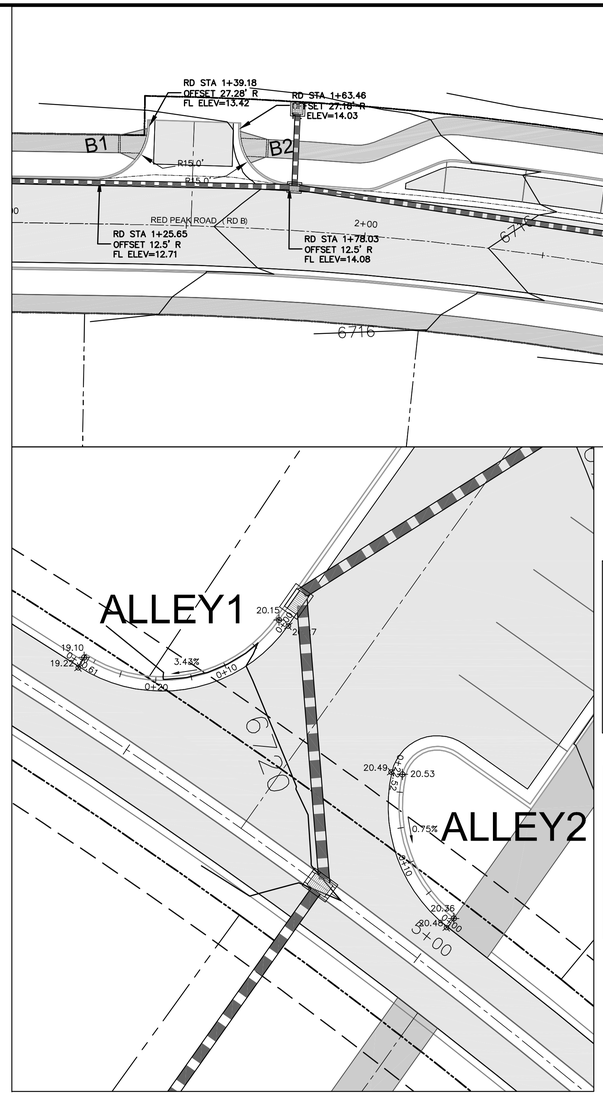
NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

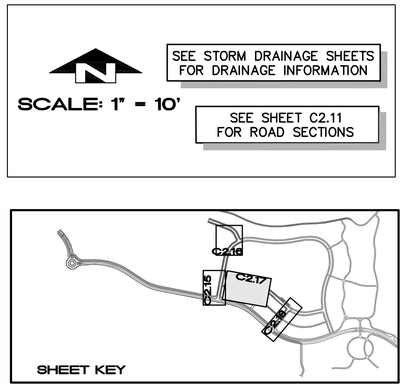
DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 534850.5
DATE 02/20/2019

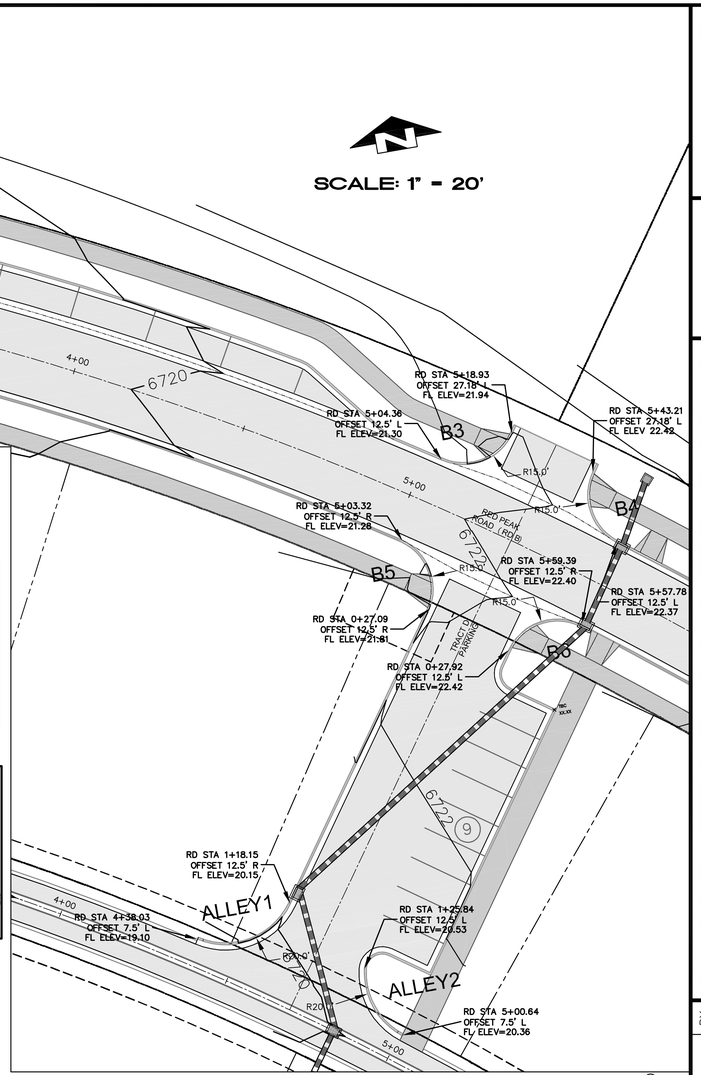
SHEET
C2.16

O:\Eagle\Haymeadow- 534805.- 2016\dwg\Master\Curb-Profiles.dwg, 2/19/2019 9:08:40 AM, Lee



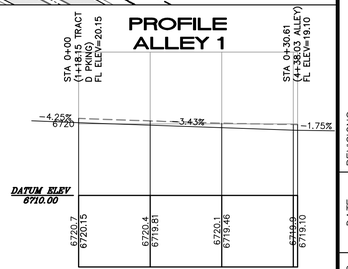


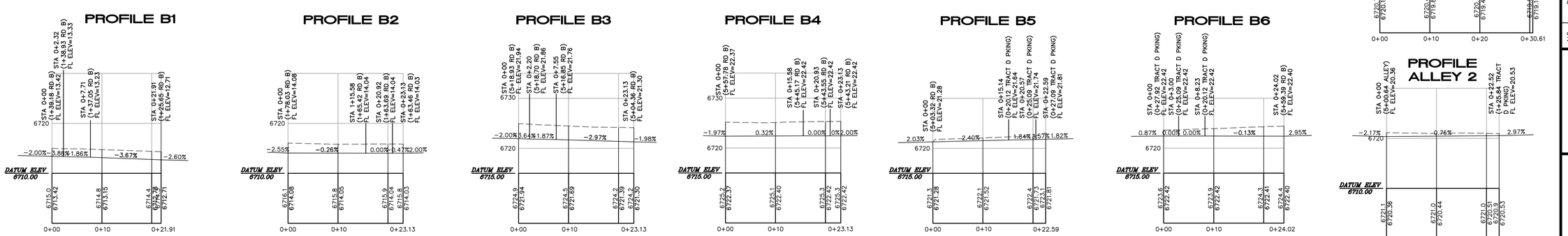




NOTES:
1. ALL PROFILES ARE VIEWED FROM INSIDE OF THE CURVE, FROM LEFT TO RIGHT
2. ALL ALIGNMENTS AND PROFILES ARE FROM FLOWLINE (BOTTOM OF CURB)
3. ALL GUTTERS ARE CATCH UNLESS NOTED OTHERWISE
4. SPOT ELEVATIONS AT PC & PT ARE ON THE FLOWLINES
5. ALL RADII SHOWN ARE TO FLOWLINE
6. TRANSITION FROM CATCH TO SPILL AS SHOWN
7. CURB PROFILE STATIONING IS SEPARATE FROM ROADWAY STATIONING, ROAD REFERENCES ARE PROVIDED IN PARANTHESES
8. ALL STATIONS, OFFSETS, AND ELEVATIONS REFER TO ROAD/ALLEY ALIGNMENTS AND PROFILES, UNLESS NOTED OTHERWISE

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 10'





ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. HAYMEADOW
11-8-16
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

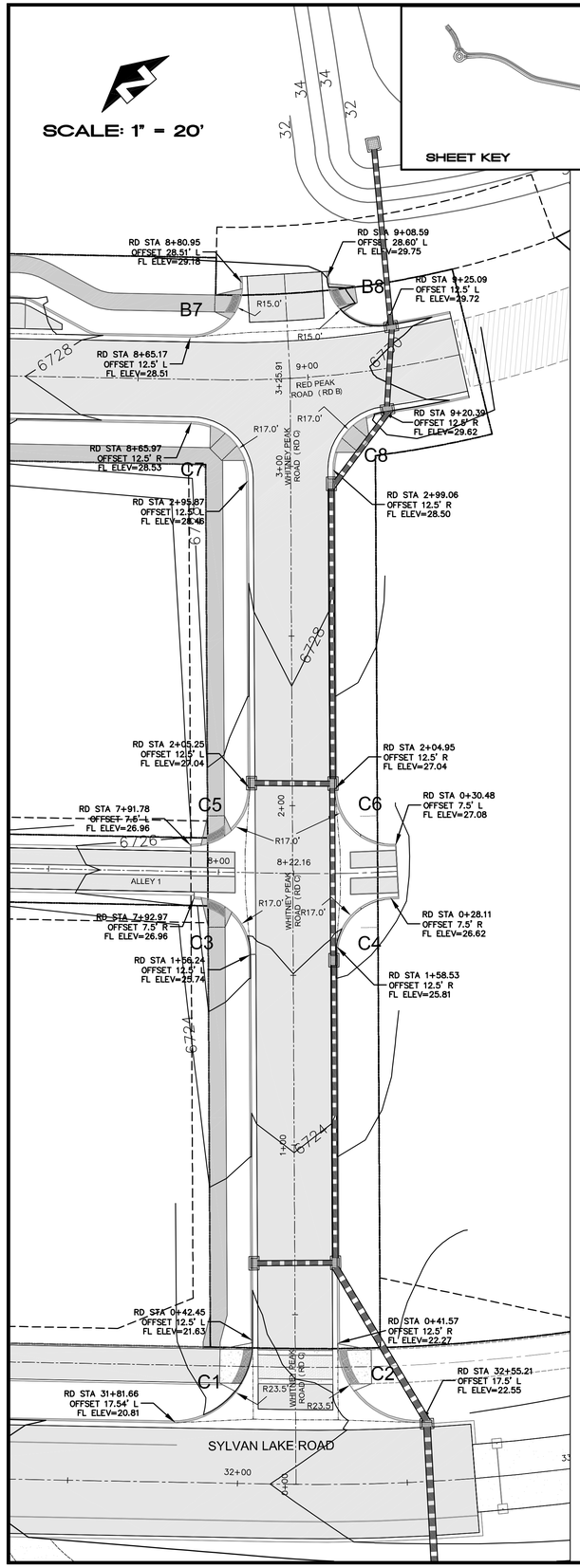
CURB AND GUTTER PROFILES

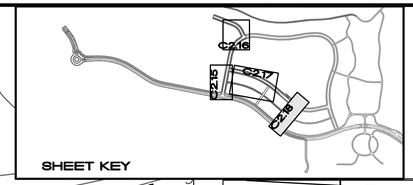
NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED	MW, RL
DRAWN	RF
CHECKED	MCW
JOB NO.	53480.5
DATE	02/20/2019

SHEET
C2.17

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Curb-Profiles.dwg, 2/19/2019 9:09:25 AM, Lee

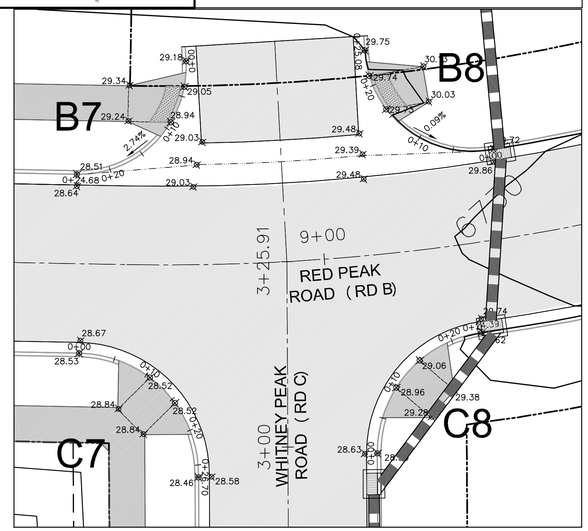


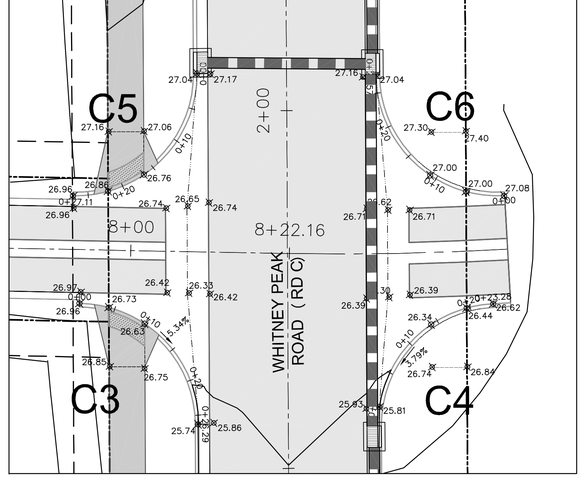


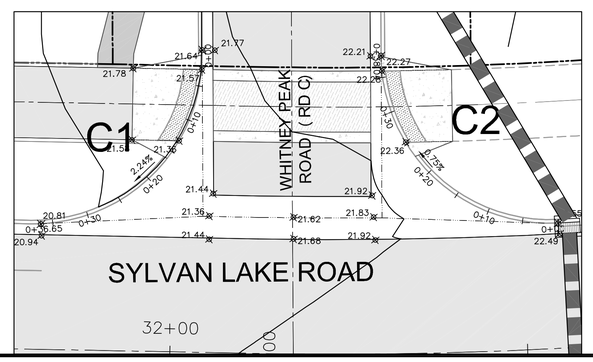
SEE STORM DRAINAGE SHEETS FOR DRAINAGE INFORMATION

SEE SHEET C2.11 FOR ROAD SECTIONS

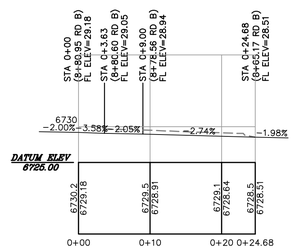
SCALE: 1" = 10'



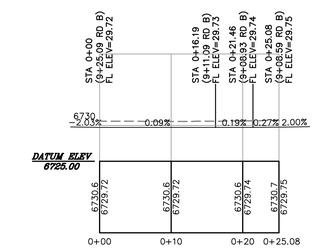




PROFILE B7

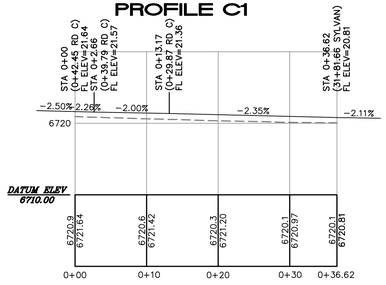


PROFILE B8

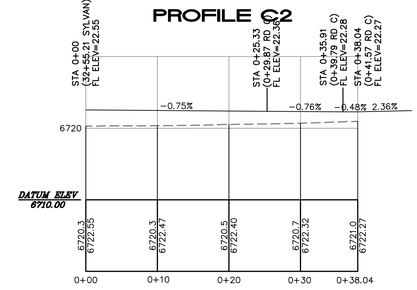


HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 10'

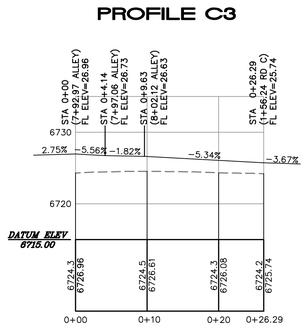
PROFILE C1



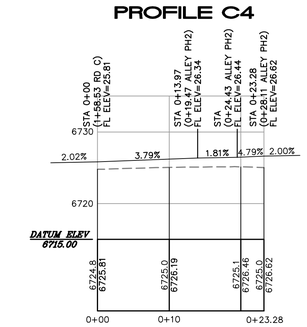
PROFILE C2



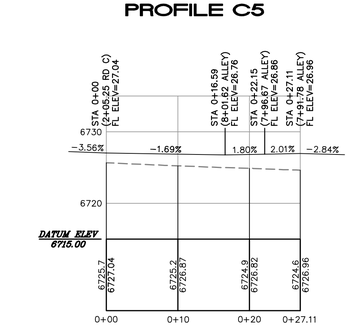
PROFILE C3



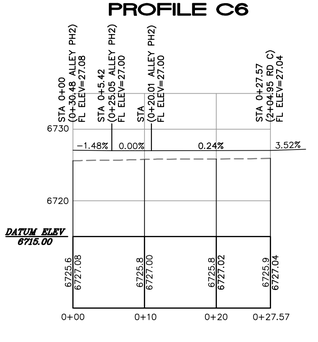
PROFILE C4



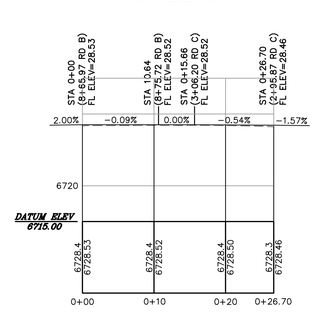
PROFILE C5



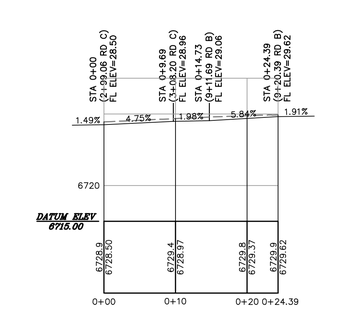
PROFILE C6



PROFILE C7



PROFILE C8



NOTES:
1. ALL PROFILES ARE VIEWED FROM INSIDE OF THE CURVE, FROM LEFT TO RIGHT
2. ALL ALIGNMENTS AND PROFILES ARE FROM FLOWLINE (BOTTOM OF CURB)
3. ALL GUTTERS ARE CATCH UNLESS NOTED OTHERWISE
4. SPOT ELEVATIONS AT PC & PT ARE ON THE FLOWLINES
5. ALL RADII SHOWN ARE TO FLOWLINE
6. TRANSITION FROM CATCH TO SPILL AS SHOWN
7. CURB PROFILE STATIONING IS SEPARATE FROM ROADWAY STATIONING, ROAD REFERENCES ARE PROVIDED IN PARANTHESES
8. ALL STATIONS, OFFSETS, AND ELEVATIONS REFER TO ROAD/ALLEY ALIGNMENTS AND PROFILES, UNLESS NOTED OTHERWISE

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. LEE
T-8-16
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

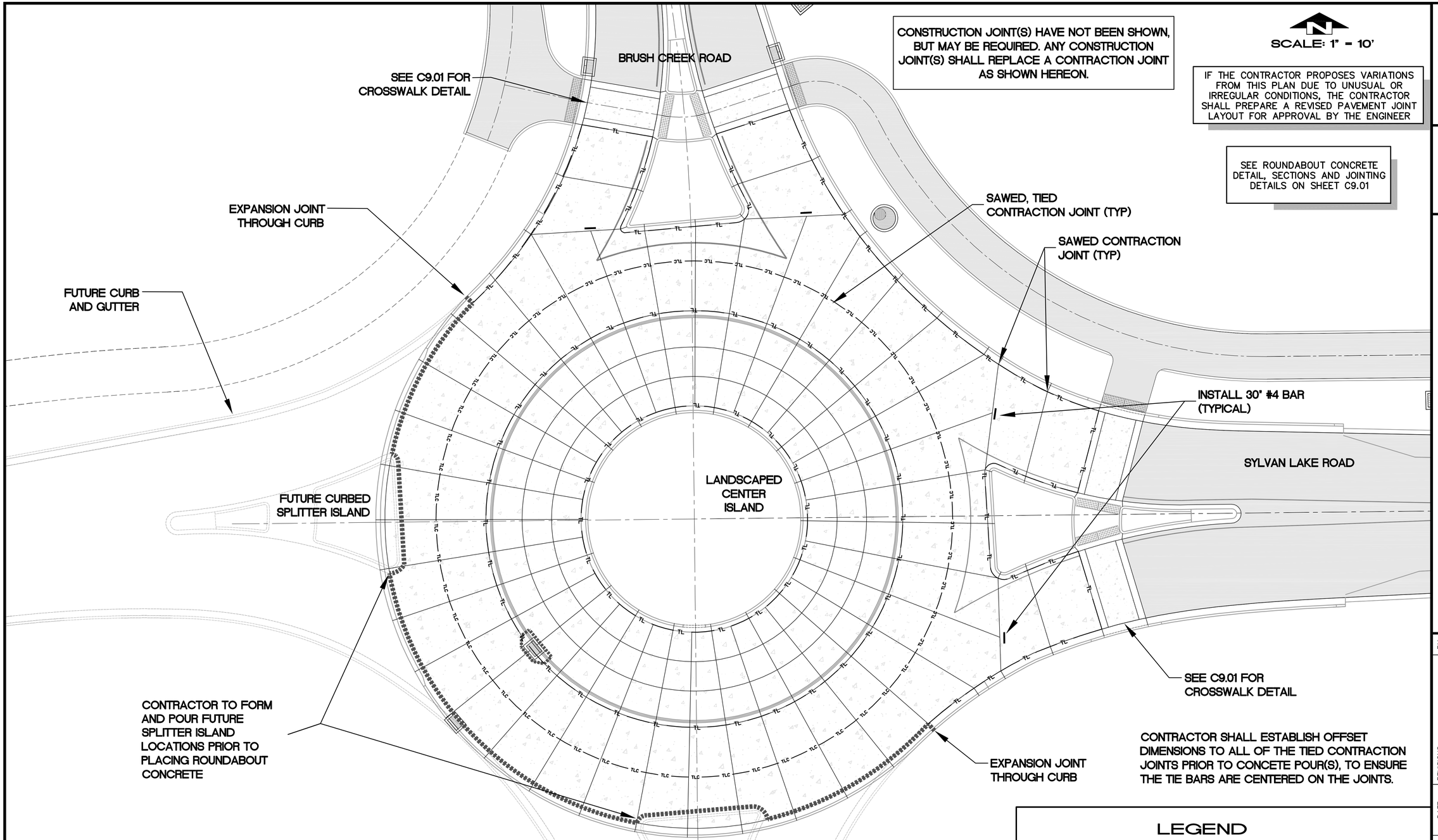
CURB AND GUTTER PROFILES

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	GB
	02/20/2019	RESPONSE TO COMMENTS	

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C2.18

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Curb-Profiles.dwg, 7/19/2019 9:10:05 AM, Lee



CONSTRUCTION JOINT(S) HAVE NOT BEEN SHOWN, BUT MAY BE REQUIRED. ANY CONSTRUCTION JOINT(S) SHALL REPLACE A CONTRACTION JOINT AS SHOWN HEREON.

SCALE: 1" = 10'

IF THE CONTRACTOR PROPOSES VARIATIONS FROM THIS PLAN DUE TO UNUSUAL OR IRREGULAR CONDITIONS, THE CONTRACTOR SHALL PREPARE A REVISED PAVEMENT JOINT LAYOUT FOR APPROVAL BY THE ENGINEER

SEE ROUNDABOUT CONCRETE DETAIL, SECTIONS AND JOINTING DETAILS ON SHEET C9.01

CONTRACTOR SHALL ESTABLISH OFFSET DIMENSIONS TO ALL OF THE TIED CONTRACTION JOINTS PRIOR TO CONCETE POUR(S), TO ENSURE THE TIE BARS ARE CENTERED ON THE JOINTS.

CURB AND GUTTER TO BE SEPARATE CONCRETE POURS. PROPOSED CURB SHOWN WITH EXPANSION JOINT WILL BE REMOVED DURING FUTURE PHASES OR ROUNDABOUT CONSTRUCTION

LEGEND

- PROPOSED CONCRETE PAVING
- PROPOSED EDGE OF ASPHALT
- TLC TLC TLC — TIE BAR, LONGITUDINAL CONTRACTION JOINT
- TL TL TL — TIE BAR, LONGITUDINAL CONSTRUCTION JOINT
- EXPANSION JOINT AT INLETS/MANHOLES
- EXPANSION JOINT AT INLETS/MANHOLES
- PROPOSED CURB AND GUTTER
- PROPOSED STORM INLET
- PROPOSED STORM MANHOLE

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. WELCH
11-8-18
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

ROUNDABOUT JOINTING PLAN

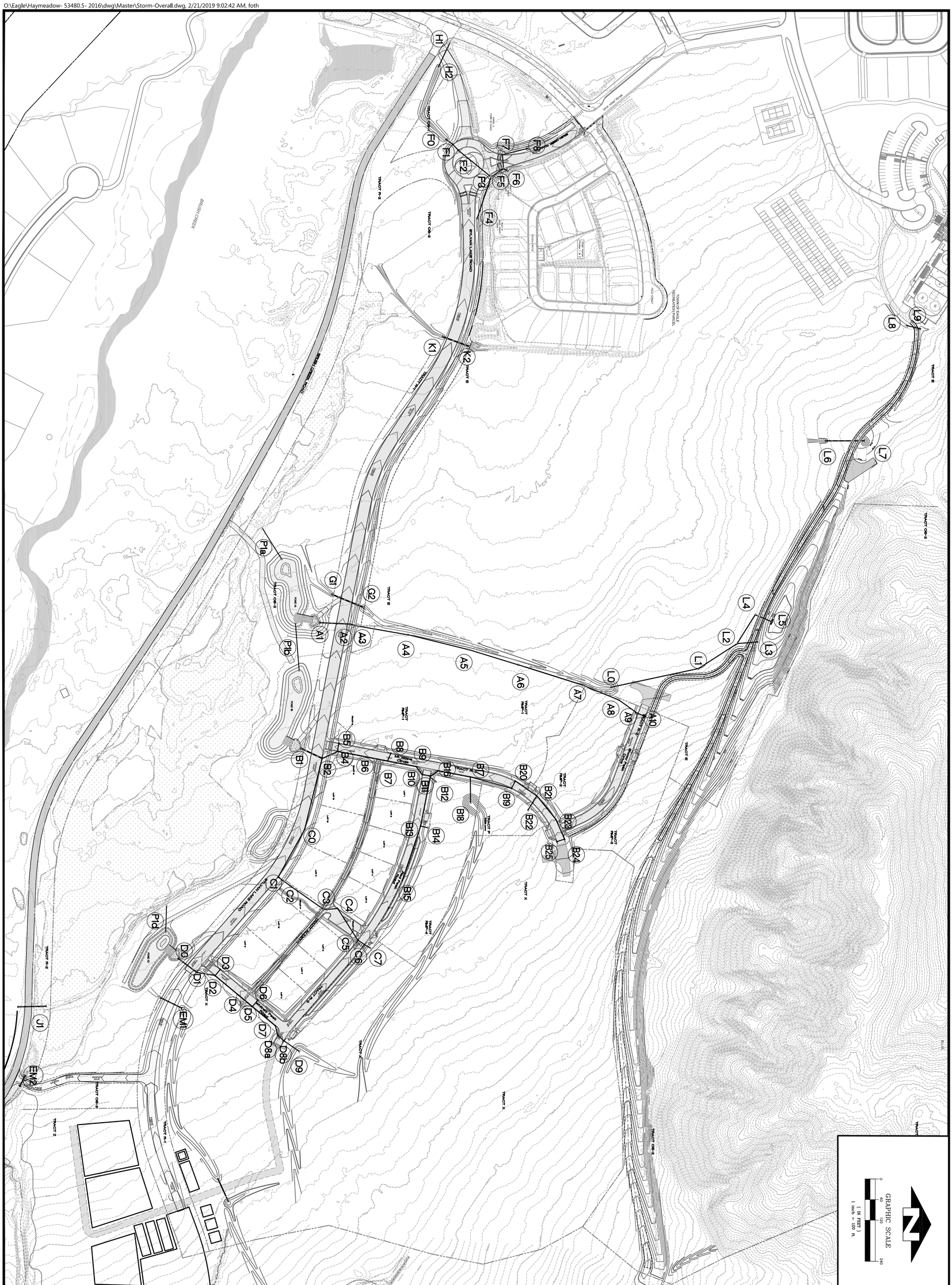
NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

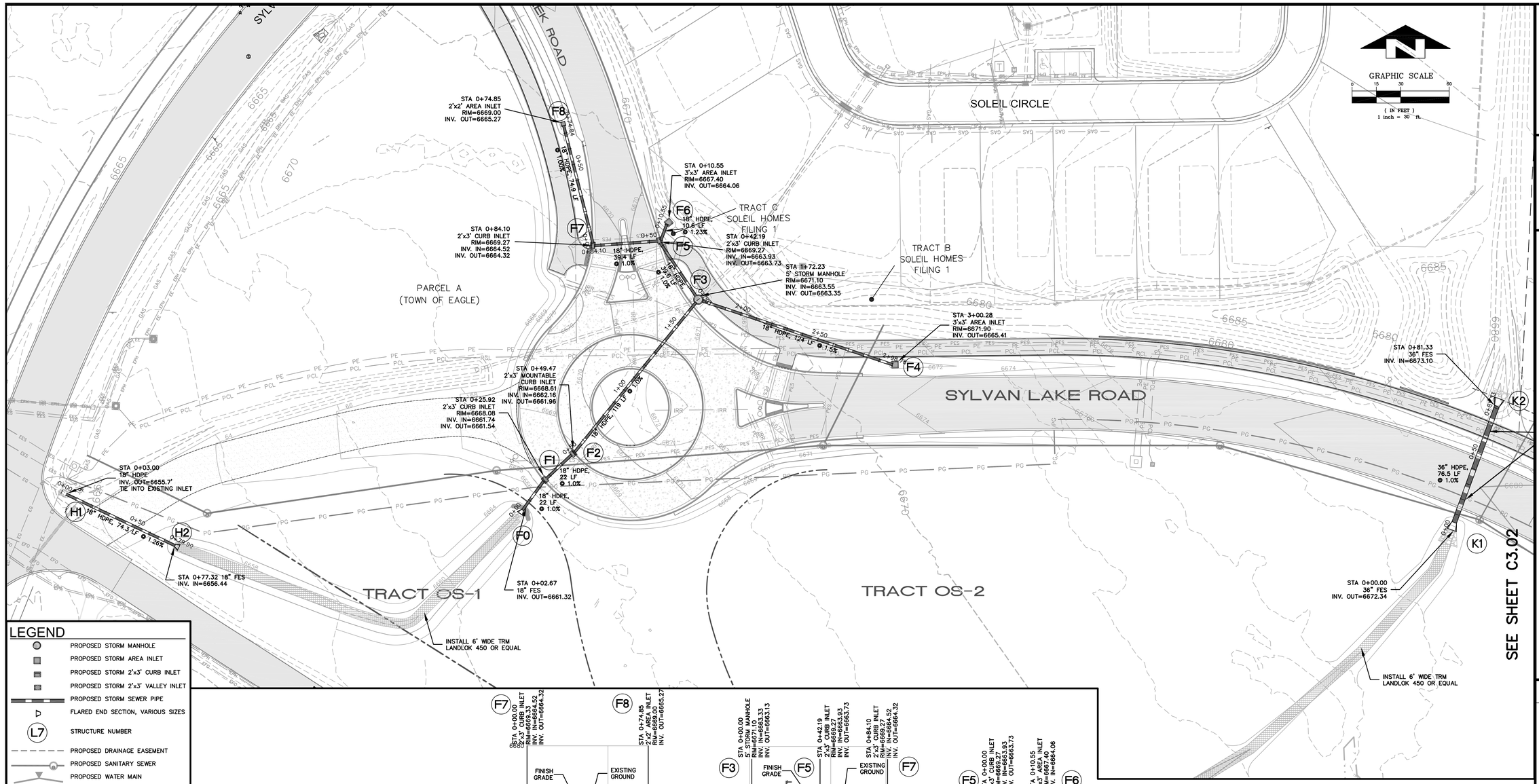
DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C2.19

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\ROUNDABOUT-JOINTING-PLAN.dwg, 2/19/2019 8:59:52 AM, Lee

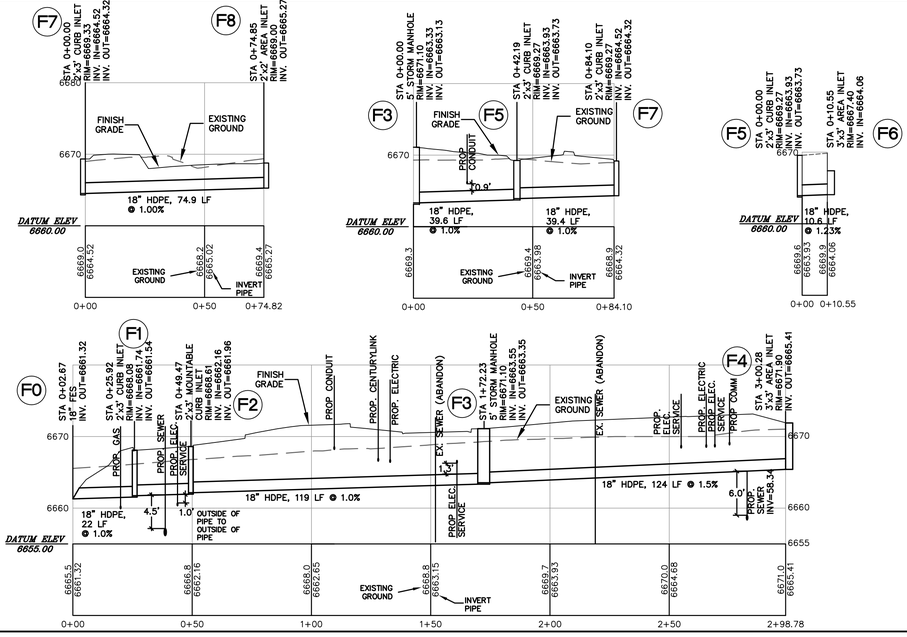
O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Storm-Overall.dwg, 2/21/2019 9:02:42 AM, foth


H1
H2
F0
F1
F2
F3
F4
F5
F6
F7
F8
K1
K2
L6
L7
L8
L9
P1a
P1b
P1d
G1
G2
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
L0
L1
L2
L3
L4
L5
B1
B2
B3
B4
B5
B6
B7
B8
B9
B10
B11
B12
B13
B14
B15
B16
B17
B18
B19
B20
B21
B22
B23
B24
B25
C0
C1
C2
C3
C4
C5
C6
C7
D0
D1
D2
D3
D4
D5
D6
D7
D8a
D8b
D9
EM1
EM2
J1
TRACT H-4
TRACT OS-3
TRACT B
TRACT OS-2
TRACT P-3
TRACT P-2
TRACT P-1
TRACT OS-1
TRACT A
TRACT F
TRACT X
TRACT Z
BRUSH CREEK
BRUSH CREEK TRAIL
BRUSH CREEK TRAIL UNDERPASS
BOLLMAN LAKE ROAD
BOLLMAN LAKE ROAD
HAYMEADOW DRIVE
HAYMEADOW DRIVE
HAYMEADOW DRIVE



LEGEND

- PROPOSED STORM MANHOLE
- PROPOSED STORM AREA INLET
- PROPOSED STORM 2'x3' CURB INLET
- PROPOSED STORM 2'x3' VALLEY INLET
- PROPOSED STORM SEWER PIPE
- FLARED END SECTION, VARIOUS SIZES
- L7 STRUCTURE NUMBER
- PROPOSED DRAINAGE EASEMENT
- PROPOSED SANITARY SEWER
- PROPOSED WATER MAIN
- PROPOSED RAW WATER
- PROPOSED ROADWAY
- 6678 PROPOSED CONTOUR
- EXISTING CONTOUR



PROFILE SCALE:
HORIZ.: 1" = 30'
VERT.: 1" = 10'

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. MCW
11-8-19
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

STORM PLAN AND PROFILES

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED	MW, RL
DRAWN	RF
CHECKED	MCW
JOB NO.	53480.5
DATE	02/20/2019

SHEET C3.01

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Storm-Profiles-Ph1 COPY.dwg, 2/19/2019 3:51:44 PM, foth

SEE SHEET C3.03

SEE SHEET C3.03

TRACT E

TRACT A

TRACT RMF-1

TRACT B

TRACT C

LOT 1

LOT 2

LOT 13

POND 1A

POND 1B

Mt. Hope Circle

DRAINAGE EASEMENT (TYP)

INSTALL COMM. AND ELEC. CONDUITS UNDER EROPOSED STORM

INSTALL COMM. AND ELEC. CONDUITS UNDER PROPOSED STORM

INSTALL RIPRAP AS SHOWN D50=9", 18" DEPTH

FOREBAY DRAIN

PROP. 12" PVC SEWER

STA 5+14.26
3'x3' AREA INLET
RIM=6700.96
INV. IN=6795.27
INV. OUT=6795.07

STA 3+31.96
3'x3' AREA INLET
RIM=6799.92
INV. IN=6693.27
INV. OUT=6693.07

STA 1+82.47
3'x3' AREA INLET
RIM=6697.16
INV. IN=6691.46
INV. OUT=6691.26

STA 1+60.59
3'x3' AREA INLET
RIM=6695.83
INV. IN=6691.08
INV. OUT=6690.88

STA 0+98.14
36" FES
INV. IN=6692.0

STA 0+71.49
24" FES
INV. OUT=6690.00

STA 0+00.00
36" FES
INV. IN=6691.0

STA 0+00
12" FES
INV. OUT 12"=6688.0'

STA 1+35.48
2'x2' AREA INLET
RIM=6698.00
INV. IN 6" ORFICE=6696.0
INV. OUT 12"=6696.0'

STA 0+107.57
2'x2' AREA INLET
RIM=6688.00
INV. IN 5" ORFICE=6686.0
INV. OUT 12"=6686.0'

STA 0+00
12" FES
INV. OUT
12"=6685.05'

STA 0+29.20
HEADWALL

STA 0+60.83
36" FES
INV. OUT=6700.00

STA 1+31.03
(2) 2'x3' CURB INLET
RIM=6706.43
INV. IN=6700.89
INV. OUT=6700.69

STA 1+80.75
2'x3' CURB INLET
RIM=6705.78
INV. IN=6701.57
INV. OUT=6701.37

STA 2+72.76
2'x3' CURB INLET
RIM=6707.90
INV. IN=6702.60
INV. OUT=6702.40

STA 3+29.76
2'x3' CURB INLET
RIM=6709.11
INV. IN=6703.81
INV. OUT=6703.61

STA 4+15.76
2'x3' CURB INLET
RIM=6710.33
INV. IN=6705.03
INV. OUT=6704.83

STA 4+45.26
2'x3' CURB INLET
RIM=6710.41
INV. IN=6705.50
INV. OUT=6705.30

STA 4+68.00
2'x3' CURB INLET
RIM=6710.41
INV. IN=6705.92
INV. OUT=6705.72

STA 0+22.56
2'x3' CURB INLET
RIM=6709.11
INV. OUT=6704.04

STA 0+00
2'x3' CURB INLET
RIM=6704.83
INV. IN=6703.81
INV. OUT=6703.61

STA 0+00
2'x3' CURB INLET
RIM=6705.78
INV. OUT=6701.80

STA 0+00
2'x3' CURB INLET
RIM=6705.78
INV. IN=6701.57
INV. OUT=6701.37

STA 0+00 (1+31.03)
(2) 2'x3' CURB INLET
RIM=6706.43
INV. IN=6700.89
INV. OUT=6700.69

STA 0+60.83
36" FES
INV. OUT=6700.00

36" HDPE, 64.4 LF @ 1.0%

24" HDPE, 47.7 LF @ 1.0%

24" HDPE, 89.0 LF @ 0.93%

24" HDPE, 54.0 LF @ 1.88%

24" HDPE, 83.0 LF @ 1.22%

24" HDPE, 27.5 LF @ 1.0%

24" HDPE, 21.8 LF @ 1.0%

18" HDPE, 209.5 LF @ 1.4

18" HDPE, 141.5 LF @ 1.91%

18" HDPE, 146.5 LF @ 1.09%

18" HDPE, 179.3 LF @ 1.00%

24" HDPE, 84.9 LF @ 1.0%

24" HDPE, 18.9 LF @ 1.0%

36" HDPE, 93.3 LF @ 1.02%

24" HDPE, 18.9 LF @ 1.0%

24" HDPE, 64.4 LF @ 1.0%

36" HDPE, 64.4 LF @ 1.0%

18" HDPE, 22.0 LF @ 1.0%

18" HDPE, 21.6 LF @ 1.0%

12" HDPE, 132.4 LF @ 5.95%

12" HDPE, 101 LF @ 0.94%

18" HDPE, 22.0 LF @ 1.0%

ENCASE STORM JOINTS (TYP)

OUTSIDE OF PIPE TO OUTSIDE OF PIPE

EXISTING GROUND

INVERT PIPE

FINISH GRADE

PROP. WATER

PROP. SEWER

PROP. GAS

PROP. COMM

PROP. ELEC & SERV

PROP. 12" SEWER

DATUM ELEV 6690.00

DATUM ELEV 6695.00

DATUM ELEV 6700.00

DATUM ELEV 6698.00

DATUM ELEV 6685.00

DATUM ELEV 6680.00

PROFILE SCALE:
HORIZ.: 1" = 30'
VERT.: 1" = 10'

GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 inch = 30 ft.

LEGEND

- PROPOSED STORM MANHOLE
- PROPOSED STORM AREA INLET
- PROPOSED STORM 2'x3' CURB INLET
- PROPOSED STORM 2'x3' VALLEY INLET
- PROPOSED STORM SEWER PIPE
- FLARED END SECTION, VARIOUS SIZES
- L7 STRUCTURE NUMBER
- PROPOSED DRAINAGE EASEMENT
- PROPOSED SANITARY SEWER
- PROPOSED WATER MAIN
- PROPOSED RAW WATER
- PROPOSED ROADWAY
- 6678 PROPOSED CONTOUR
- EXISTING CONTOUR

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. BARNES
11-8-16
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

STORM PLAN AND PROFILES

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	GB
	02/20/2019	RESPONSE TO COMMENTS	

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C3.02

O:\Eagle\Haymeadow- 53480.5- 2018\dwg\Master\Storm-Profiles-Ph1 COPY.dwg, 2/19/2019 3:54:56 PM, foth

GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 inch = 30 ft.

LEGEND
- PROPOSED STORM MANHOLE
- PROPOSED STORM AREA INLET
- PROPOSED STORM 2'x3' CURB INLET
- PROPOSED STORM 2'x3' VALLEY INLET
- PROPOSED STORM SEWER PIPE
- FLARED END SECTION, VARIOUS SIZES
- L7 STRUCTURE NUMBER
- PROPOSED DRAINAGE EASEMENT
- PROPOSED SANITARY SEWER
- PROPOSED WATER MAIN
- PROPOSED RAW WATER
- PROPOSED ROADWAY
- 6678 PROPOSED CONTOUR
- EXISTING CONTOUR

SEE SHEET C3.04

TRACT R-2

TRACT RMF-1

TRACT RMF-2

TRACT RMF-3

TRACT F
0.4983 acres

DRAINAGE EASEMENT (TYP)

L0 STA 0+00.00
18" FES
INV. OUT=6706.00

A5 STA 5+14.26
3'x3' AREA INLET
RIM=6700.98
INV. IN=6795.27
INV. OUT=6795.07

A6 STA 6+65.53
3'x3' AREA INLET
RIM=6701.46
INV. IN=6796.96
INV. OUT=6796.76

A7 STA 8+63.32
3'x3' AREA INLET
RIM=6708.93
INV. IN=6703.29
INV. OUT=6703.09

A8 STA 9+75.47
3'x3' AREA INLET
RIM=6716.39
INV. IN=6710.93
INV. OUT=6710.73

A9 STA 10+44.55
2'x3' CURB INLET
RIM=6719.28
INV. IN=6713.98
INV. OUT=6713.78

A10 STA 10+67.55
2'x3' CURB INLET
RIM=6719.28
INV. IN=6714.40
INV. OUT=6714.20

B11 STA 0+00.00
2'x3' CURB INLET
RIM=6710.41
INV. IN=6705.92
INV. OUT=6705.72

B12 STA 0+17.99
3'x3' AREA INLET
RIM=6710.50
INV. OUT=6706.10

B16 STA 0+26.81
2'x3' CURB INLET
RIM=6711.29
INV. IN=6706.38
INV. OUT=6706.18

B17 STA 1+23.86
2'x3' CURB INLET
RIM=6712.76
INV.. IN=6707.52
INV. OUT=6707.32

B18 STA 0+72.52
3'x3' AREA INLET
RIM=6708.45
INV. OUT=6708.25

B19 STA 2+47.07
2'x3' CURB INLET
RIM=6715.91
INV. IN=6710.61
INV. OUT=6710.41

B20 STA 2+70.99
2'x3' CURB INLET
RIM=6715.98
INV. IN=6711.03
INV. OUT=6710.83

B21 STA 3+47.24
2'x3' CURB INLET
RIM=6719.53
INV. IN=6714.23
INV. OUT=6714.03

B22 STA 0+45.78
3'x3' AREA INLET
RIM=6720.69
INV. IN=6715.35
INV. OUT=6715.15

B23 STA 4+35.50
2'x3' CURB INLET
RIM=6723.76
INV. IN=6718.69
INV. OUT=6718.46

B24 STA 4+96.69
2'x3' CURB INLET
RIM=6726.77
INV. IN=6721.47
INV. OUT=6721.27

B25 STA 0+21.50
2'x3' CURB INLET
RIM=6726.77
INV. OUT=6721.69

STA 10+00
STA 10+50
STA 10+67.55

A5 STA 5+14.26
3'x3' AREA INLET
RIM=6700.98
INV. IN=6695.27
INV. OUT=6695.07

A6 STA 6+65.53
3'x3' AREA INLET
RIM=6704.29
INV. IN=6698.26
INV. OUT=6698.06

A7 STA 8+63.32
3'x3' AREA INLET
RIM=6708.93
INV. IN=6703.29
INV. OUT=6703.09

A8 STA 9+75.47
3'x3' AREA INLET
RIM=6716.39
INV. IN=6710.93
INV. OUT=6710.73

A9 STA 10+44.55
2'x3' CURB INLET
RIM=6719.28
INV. IN=6713.98
INV. OUT=6713.78

A10 STA 10+67.55
2'x3' CURB INLET
RIM=6719.28
INV. IN=6714.40
INV. OUT=6714.20

EXISTING GROUND
FINISH GRADE
18" HDPE, 148.3 LF @ 1.00%
18" HDPE, 194.8 LF @ 3.15%
18" HDPE, 109.2 LF @ 6.81%
18" HDPE, 66.6 LF @ 4.29%
18" HDPE, 11.5' 22.0 LF @ 1.0%
PROP. 6" NON-POTABLE
PROP GAS
PROP WATER
*ENCASE STORM JOINTS (TYP)
EXISTING GROUND
INVERT PIPE

6700.9 6694.94
6700.7 6695.61
6701.3 6696.11
6701.1 6696.61
6701.9 6697.99
6703.0 6699.57
6705.3 6701.14
6708.6 6702.72
6711.4 6705.69
6714.9 6709.10
6717.8 6711.92
6719.5 6714.03
6720.1 6714.20

5+00 5+50 6+00 6+50 7+00 7+50 8+00 8+50 9+00 9+50 10+00 10+50 10+67.55

PROFILE SCALE:
HORIZ.: 1" = 30'
VERT.: 1" = 10'

B11 STA 0+00.00
2'x3' CURB INLET
RIM=6710.41
INV. IN=6705.92
INV. OUT=6705.72

B12 STA 0+17.99
3'x3' AREA INLET
RIM=6710.50
INV. OUT=6706.10

FINISH GRADE
EXISTING GROUND
PROP. COMM
PROP. ELEC.
INSTALL SHALLOWS UNDER STORM
18" HDPE, 18.0 LF @ 1.00%
DATUM ELEV 6700.00
6711.5 6705.92
6711.8 6706.10
0+00 0+17.99

B24 STA 0+00.00
2'x3' CURB INLET
RIM=6726.77
INV. IN=6721.47
INV. OUT=6721.27

B25 STA 0+21.50
2'x3' CURB INLET
RIM=6726.77
INV. OUT=6721.69

FINISH GRADE
EXISTING GROUND
ENCASE STORM JOINTS (TYP)
18" HDPE, 21.5 LF @ 1.00%
DATUM ELEV 6720.00
6731.2 6721.47
6730.9 6721.69
PROP. WATER
0+00 0+21.50

B17 STA 0+00.00
2'x3' CURB INLET
RIM=6712.76
INV. IN=6707.52
INV. OUT=6707.32

B18 STA 0+72.52
3'x3' AREA INLET
RIM=6713.58
INV. IN=6708.45
INV. OUT=6708.25

FINISH GRADE
EXISTING GROUND
18" HDPE 72.5 LF @ 1.00%
DATUM ELEV 6700.00
PROP. COMM
6711.3 6707.52
6713.5 6708.02
6714.6 6708.25
EXISTING GROUND
INVERT PIPE
0+00 0+50 0+72.52

B21 STA 0+00.00
2'x3' CURB INLET
RIM=6719.53
INV. IN=6714.23
INV. OUT=6714.03

B22 STA 0+45.78
3'x3' AREA INLET
RIM=6720.69
INV. IN=6715.35
INV. OUT=6715.15

FINISH GRADE
EXISTING GROUND
ENCASE STORM JOINTS (TYP)
18" HDPE, 45.8 LF @ 2.00%
DATUM ELEV 6710.00
PROP. WATER
PROP. GAS
INSTALL GAS BELOW STORM
6721.5 6714.23
6721.7 6715.15
0+00 0+45.78

B20 STA 2+70.99
2'x3' CURB INLET
RIM=6715.98
INV. IN=6711.03
INV. OUT=6710.83

B21 STA 3+47.24
2'x3' CURB INLET
RIM=6719.53
INV. IN=6714.23
INV. OUT=6714.03

B23 STA 4+35.50
2'x3' CURB INLET
RIM=6723.76
INV. IN=6718.69
INV. OUT=6718.46

B24 STA 4+96.69
2'x3' CURB INLET
RIM=6726.77
INV. IN=6721.47
INV. OUT=6721.27

FINISH GRADE
EXISTING GROUND
18" HDPE, 21.9 LF @ 1.00%
18" HDPE, 73.3 LF @ 4.10%
18" HDPE, 85.3 LF @ 4.72%
18" HDPE, 59.7 LF @ 4.72%
PROP. ELEC
PROP. GAS
PROP. WATER
PROP 8" SEWER
ENCASE STORM JOINTS (TYP)
INSTALL SHALLOWS UNDER STORM
6715.7 6710.63
6717.1 6712.16
6721.7 6714.29
6725.7 6716.85
6728.8 6719.07
6731.1 6721.27
2+50 3+00 3+50 4+00 4+50 4+96.69

B11 STA 0+00.00
2'x3' CURB INLET
RIM=6710.41
INV. IN=6705.92
INV. OUT=6705.72

B16 STA 0+26.81
2'x3' CURB INLET
RIM=6711.29
INV. IN=6706.38
INV. OUT=6706.18

B17 STA 1+23.86
2'x3' CURB INLET
RIM=6712.76
INV.. IN=6707.52
INV. OUT=6707.32

B19 STA 2+47.07
2'x3' CURB INLET
RIM=6715.91
INV. IN=6710.61
INV. OUT=6710.41

EXISTING GROUND
24" HDPE, 25.8 LF @ 1.00%
18" HDPE, 120.2 LF @ 2.40%
24" HDPE, 94.1 LF @ 1.00%
PROP. GAS
PROP. COMM
PROP 8" SEWER
PROP. 6" RAW WATER
INSTALL SHALLOWS UNDER STORM
EXISTING GROUND
INVERT PIPE
DATUM ELEV 6700.00
6711.3 6705.92
6710.8 6706.60
6711.4 6707.10
6711.4 6708.11
6713.5 6709.32
6715.7 6710.63
0+00 0+50 1+00 1+50 2+00 2+50

STA 5+14.26
3'x3' AREA INLET
RIM=6700.98
INV. IN=6795.27
INV. OUT=6795.07

STA 6+65.53
3'x3' AREA INLET
RIM=6701.46
INV. IN=6796.96
INV. OUT=6796.76

STA 8+63.32
3'x3' AREA INLET
RIM=6708.93
INV. IN=6703.29
INV. OUT=6703.09

STA 9+75.47
3'x3' AREA INLET
RIM=6716.39
INV. IN=6710.93
INV. OUT=6710.73

STA 10+44.55
2'x3' CURB INLET
RIM=6719.28
INV. IN=6713.98
INV. OUT=6713.78

STA 10+67.55
2'x3' CURB INLET
RIM=6719.28
INV. IN=6714.40
INV. OUT=6714.20

STA 0+00.00
18" FES
INV. OUT=6706.00

STA 4+96.69
2'x3' CURB INLET
RIM=6726.77
INV. IN=6721.47
INV. OUT=6721.27

STA 4+35.50
2'x3' CURB INLET
RIM=6723.76
INV. IN=6718.69
INV. OUT=6718.46

STA 3+47.24
2'x3' CURB INLET
RIM=6719.53
INV. IN=6714.23
INV. OUT=6714.03

STA 0+21.50
2'x3' CURB INLET
RIM=6726.77
INV. OUT=6721.69

STA 0+45.78
3'x3' AREA INLET
RIM=6720.69
INV. IN=6715.35
INV. OUT=6715.15

STA 2+70.99
2'x3' CURB INLET
RIM=6715.98
INV. IN=6711.03
INV. OUT=6710.83

STA 2+47.07
2'x3' CURB INLET
RIM=6715.91
INV. IN=6710.61
INV. OUT=6710.41

STA 1+23.86
2'x3' CURB INLET
RIM=6712.76
INV.. IN=6707.52
INV. OUT=6707.32

STA 0+72.52
3'x3' AREA INLET
RIM=6708.45
INV. OUT=6708.25

STA 0+26.81
2'x3' CURB INLET
RIM=6711.29
INV. IN=6706.38
INV. OUT=6706.18

STA 0+17.99
3'x3' AREA INLET
RIM=6710.50
INV. OUT=6706.10

STA 0+00
2'x3' CURB INLET
RIM=6710.41
INV. IN=6705.92
INV. OUT=6705.72

STA 0+20.49
3'x3' AREA INLET
RIM=6714.00
INV. OUT=6709.02

SEE SHEET C3.04

O:\Eagle\Haymeadow-53480.5-2016\dwg\Master\Storm-Profiles-Ph1 COPY.dwg, 2/19/2019 3:57:00 PM, foth

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS, CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. WILSON
11-8-19
39865
PROFESSIONAL ENGINEER

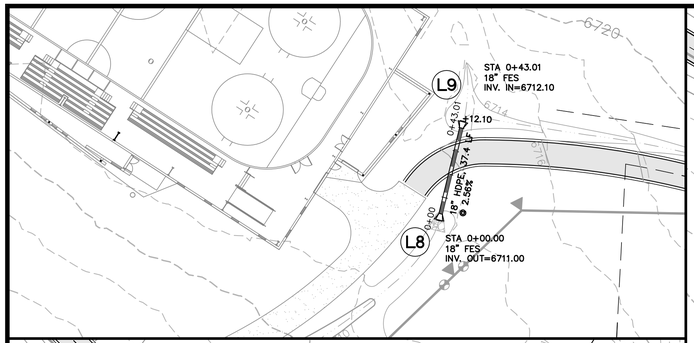
HAYMEADOW FILING 1

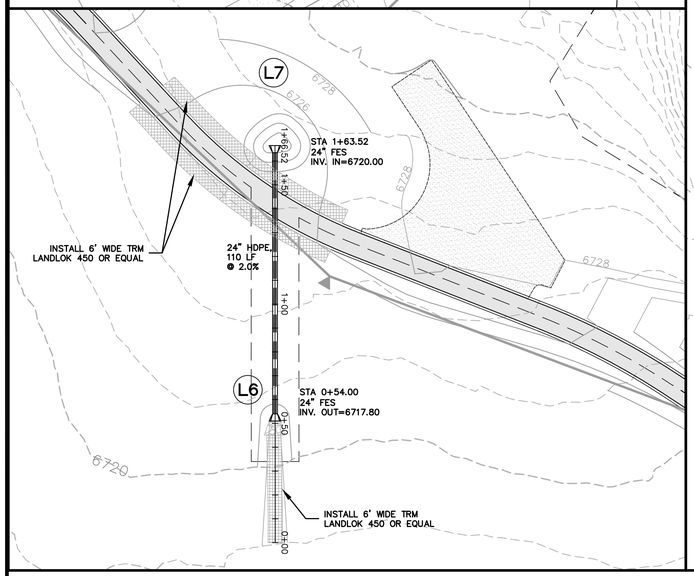
STORM PLAN AND PROFILES

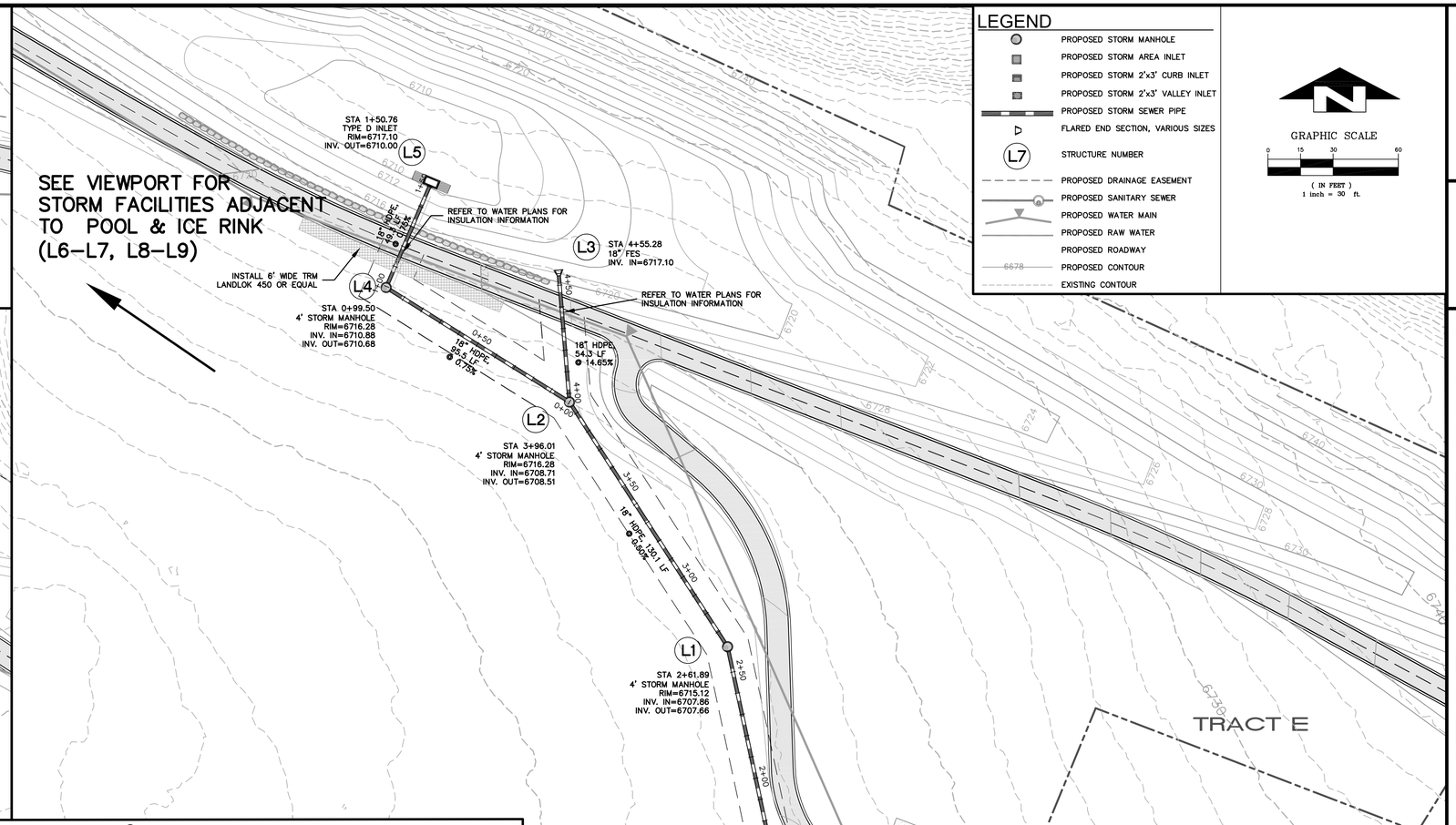
NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	GB
	02/20/2019	RESPONSE TO COMMENTS	

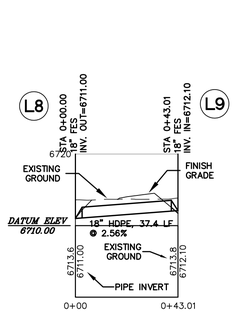
DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

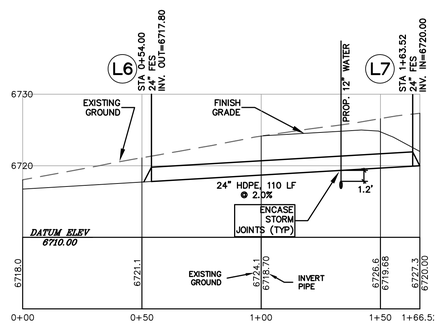
SHEET C3.03

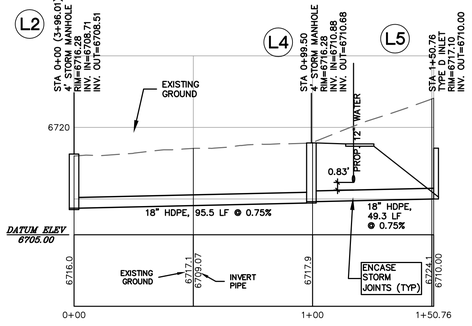




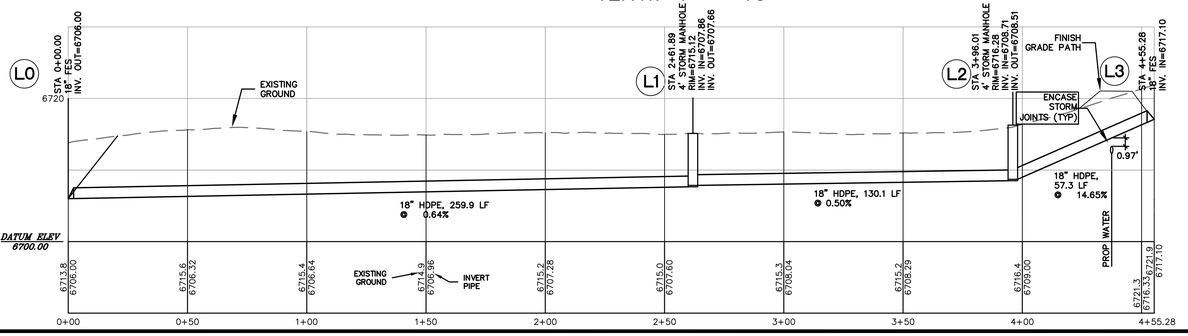








PROFILE SCALE:
HORIZ.: 1" = 30'
VERT.: 1" = 10'



LEGEND

- PROPOSED STORM MANHOLE
- PROPOSED STORM AREA INLET
- PROPOSED STORM 2'x3' CURB INLET
- PROPOSED STORM 2'x3' VALLEY INLET
- PROPOSED STORM SEWER PIPE
- FLARED END SECTION, VARIOUS SIZES
- L7 STRUCTURE NUMBER
- PROPOSED DRAINAGE EASEMENT
- PROPOSED SANITARY SEWER
- PROPOSED WATER MAIN
- PROPOSED RAW WATER
- PROPOSED ROADWAY
- 6678 PROPOSED CONTOUR
- EXISTING CONTOUR

GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 inch = 30 ft.

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. WILSON
11-8-19
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

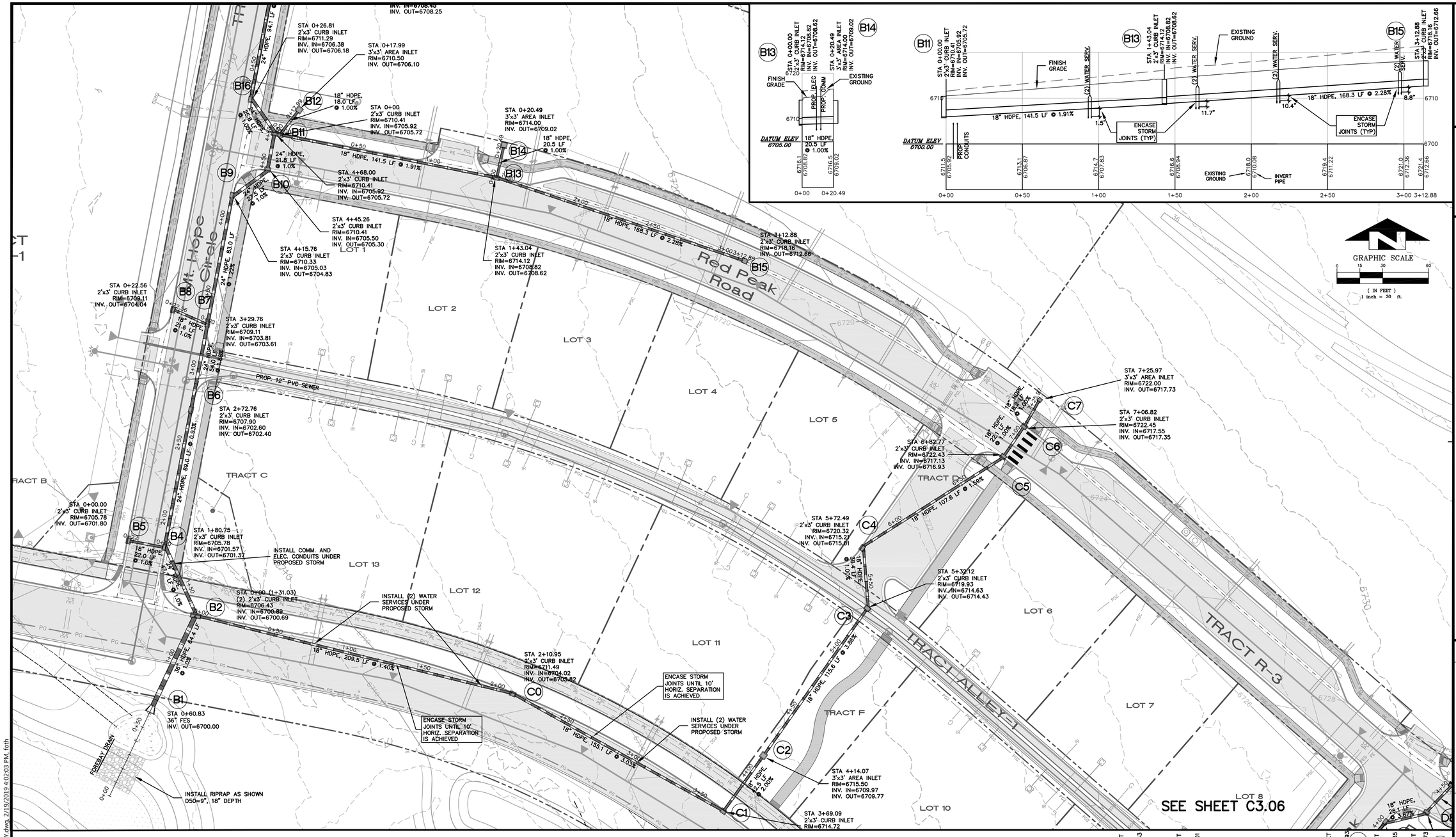
STORM PLAN AND PROFILE

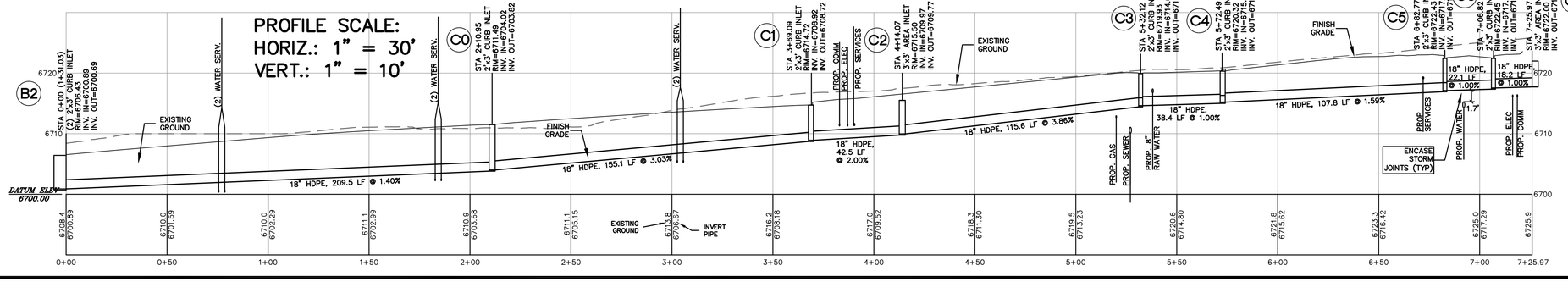
NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	GB
	02/20/2019	RESPONSE TO COMMENTS	

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET
C3.04

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Storm-Profiles-Ph1 COPY.dwg, 2/19/2019 3:58:21 PM, foth





LEGEND

- PROPOSED STORM MANHOLE
- PROPOSED STORM AREA INLET
- PROPOSED STORM 2'x3' CURB INLET
- PROPOSED STORM 2'x3' VALLEY INLET
- PROPOSED STORM SEWER PIPE
- FLARED END SECTION, VARIOUS SIZES
- L7 STRUCTURE NUMBER
- PROPOSED DRAINAGE EASEMENT
- PROPOSED SANITARY SEWER
- PROPOSED WATER MAIN
- PROPOSED RAW WATER
- PROPOSED ROADWAY
- 6678 PROPOSED CONTOUR
- EXISTING CONTOUR

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. MCW
T-B-16
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

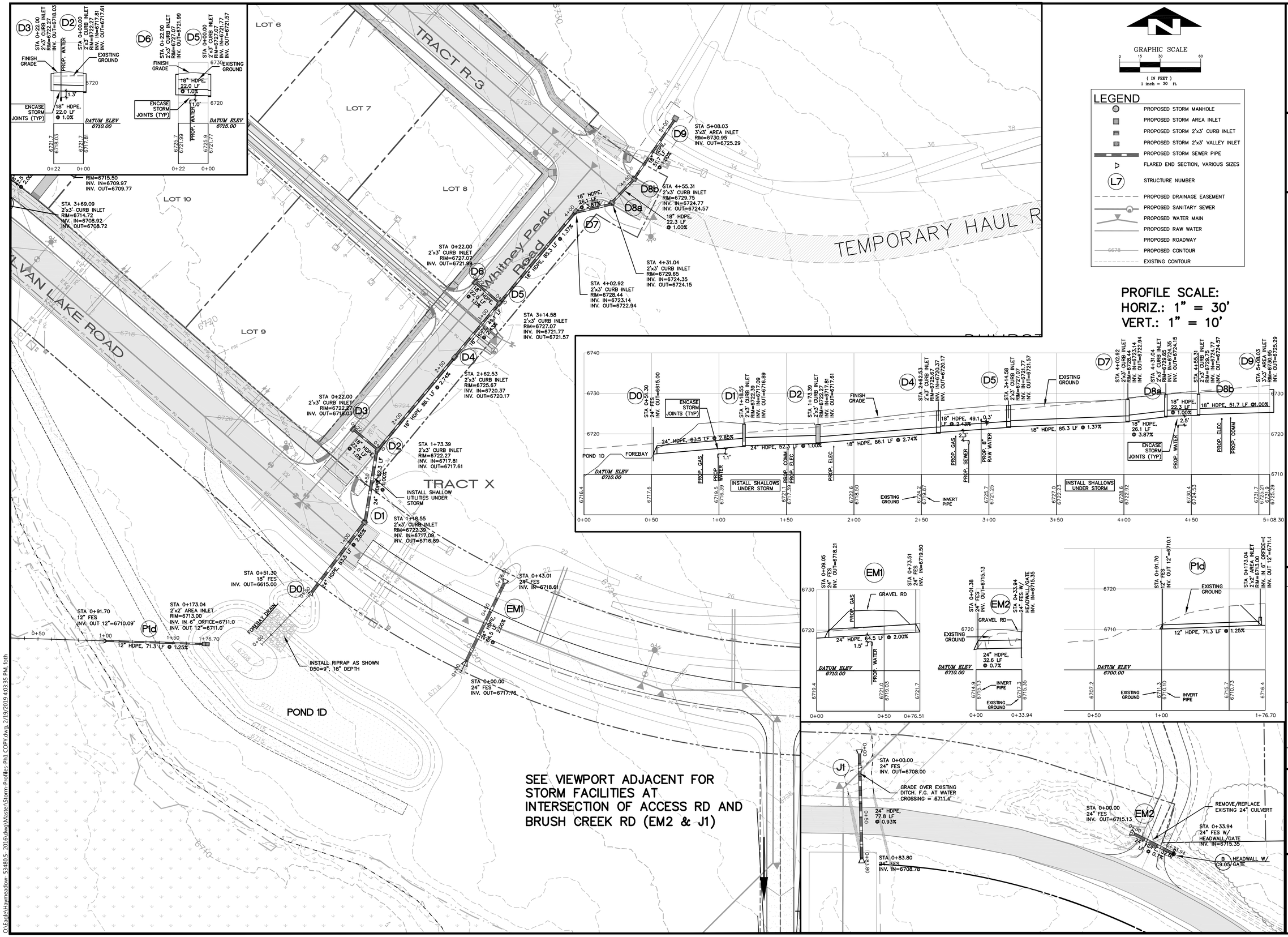
STORM PLAN AND PROFILES

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	GB
	02/20/2019	RESPONSE TO COMMENTS	

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C3.05

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Storm-Profiles-Ph1 COPY.dwg, 2/19/2019 4:02:03 PM, foth



GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 inch = 30 ft.

LEGEND

- PROPOSED STORM MANHOLE
- PROPOSED STORM AREA INLET
- PROPOSED STORM 2'x3' CURB INLET
- PROPOSED STORM 2'x3' VALLEY INLET
- PROPOSED STORM SEWER PIPE
- FLARED END SECTION, VARIOUS SIZES
- L7 STRUCTURE NUMBER
- PROPOSED DRAINAGE EASEMENT
- PROPOSED SANITARY SEWER
- PROPOSED WATER MAIN
- PROPOSED RAW WATER
- PROPOSED ROADWAY
- 6678 PROPOSED CONTOUR
- EXISTING CONTOUR

PROFILE SCALE:
HORIZ.: 1" = 30'
VERT.: 1" = 10'

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. WILLIAMS
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

STORM PLAN AND PROFILES

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	GB
	02/20/2019	RESPONSE TO COMMENTS	

DESIGNED	MW, RL
DRAWN	RF
CHECKED	MCW
JOB NO.	53480.5
DATE	02/20/2019

SHEET C3.06

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Storm-Profiles-Ph1 COPY.dwg, 2/19/2019 4:03:35 PM, toth

NOTES:

- WATER & SEWER SYSTEM NOTES AND SPECIFICATIONS PER TOWN OF EAGLE PUBLIC WORKS MANUAL
- ALL WATER MAINS TO BE DESIGNED TO FUTURE PRESSURES. FILING 1 WATER SYSTEM MAXIMUM PRESSURES WILL BE APPROXIMATELY 50 PSI AT ELEVATION 6730'. FUTURE WATER SYSTEM PRESSURES ARE EXPECTED TO BE A MAXIMUM OF APPROXIMATELY 108 PSI AT ELEVATION 6730'.

GRAPHIC SCALE
0 50 100 200
SCALE: 1"= 100'

SEE INSET BELOW FOR CONTINUATION OF WATER-MAIN

6730

TOWN OF EAGLE RECREATION PARCEL

FIELD STREET

BRUSH CREEK ROAD

SOLEIL CIRCLE

Soleil Homes Phases 1 & 2

TRACT C SOLEIL HOMES FILING 1

TRACT B SOLEIL HOMES FILING 1

PARCEL A (TOWN OF EAGLE)

BEGIN ALIGNMENT SEWER 1

SYLVAN LAKE ROAD

TRACT E

TRACT OS-1

TRACT OS-2

TRACT R-1

TRACT R-2

ALIGNMENT SEWER 1

TRACT A

EXISTING 12" GM (APPROXIMATE)

BRUSH CREEK

EAGLE RANCH

ALIGNMENT SEWER 7

ALIGNMENT WATER-MAIN CONNECT (12")

BEGIN ALIGNMENT WATER-MAIN CONNECT (12")

TRACT RMF-3

TRACT RMF-2

TRACT RMF-1

END ALIGNMENT SEWER 4

TRACT X

END ALIGNMENT WATER-MAIN SITE (12")

ALIGNMENT SEWER 6

TRACT F

ALIGNMENT SEWER 4

ALIGNMENT SEWER 5

TRACT RMF-4

END ALIGNMENT WATER-8 IN

TRACT RMF-5

ALIGNMENT WATER-MAIN SITE (12")

END ALIGNMENT SEWER 1

BEGIN ALIGNMENT SEWER 2

ALIGNMENT SEWER 2

BEGIN ALIGNMENT SEWER 4

ALIGNMENT WATER-8 IN

TRACT R-3

END ALIGNMENT SEWER 2

ALIGNMENT WATER-MAIN SITE (12")

BEGIN ALIGNMENT WATER-8 IN

ALIGNMENT WATER-MAIN SITE (12")

WETLAND IMPACT TEMP-1 (11,140 sf)

WETLAND IMPACT TEMP-2 (9241 sf) (POTENTIAL)

BEGIN ALIGNMENT WATER-MAIN SITE (12")

INSET

GRAPHIC SCALE
0 50 100 200
SCALE: 1"= 100'

END ALIGNMENT WATER-MAIN CONNECT (12")

ALIGNMENT WATER-MAIN CONNECT (12")

TRACT OS-2

TRACT A

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. WEIT
11-8-18
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

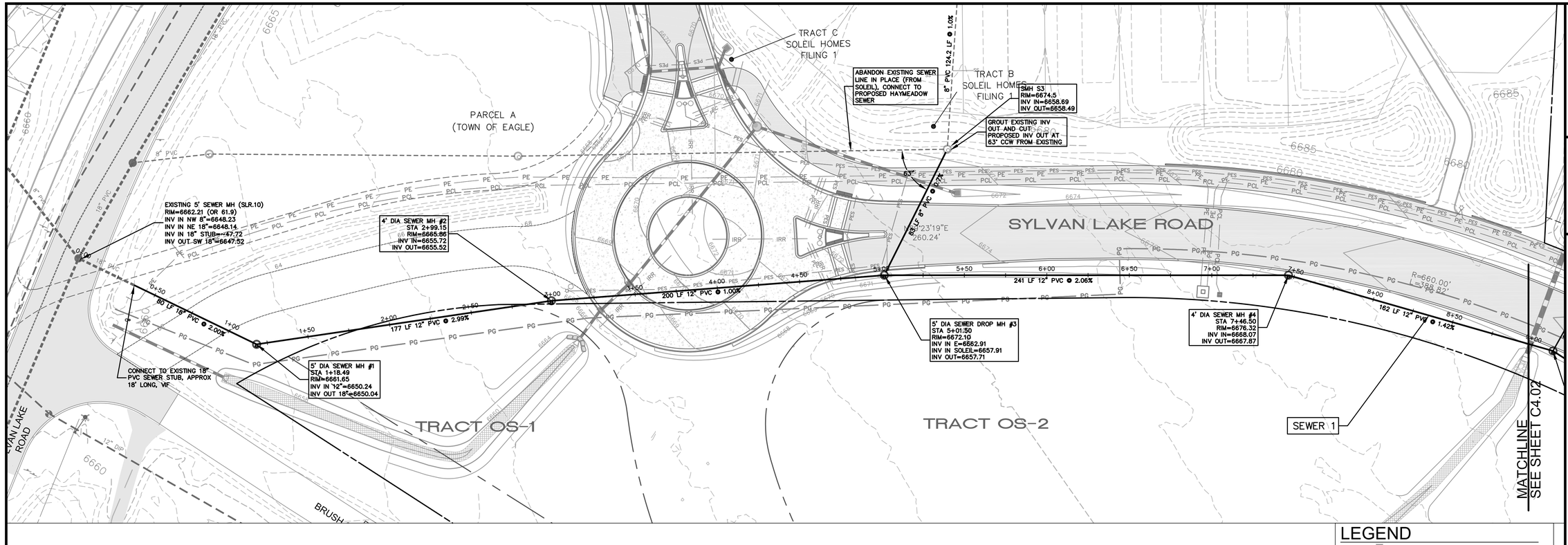
OVERALL WATER/SEWER PLAN

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

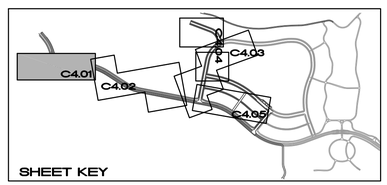
DESIGNED	MW, RL
DRAWN	RF
CHECKED	MCW
JOB NO.	53480.5
DATE	02/20/2019

SHEET
C4.00

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Utility-Water-Ph1.dwg, 2/21/2019 9:59:06 AM, foth





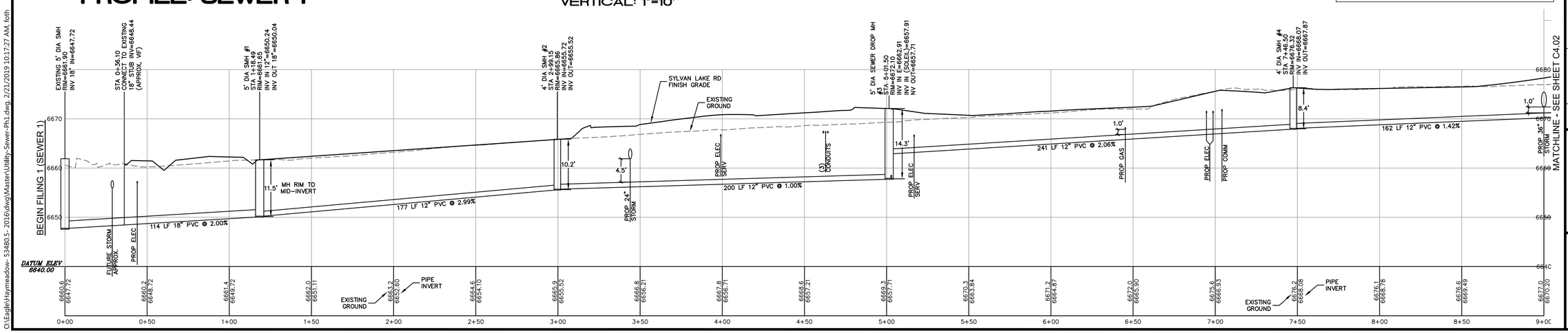


LEGEND

- PROPOSED WATER MAIN W/BEND, THRUST BLOCK
- PROPOSED WATER SERVICE W/ CURB STOP
- PROPOSED FIRE HYDRANT/GV ASSEMBLY
- (A) 11.25° BEND
- (B) 22.5° BEND
- (C) 45° BEND
- PROPOSED SANITARY SEWER MAIN W/ MANHOLE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED STORM SEWER & INLETS
- PROPOSED RAW WATER, VARIOUS SIZES
- PROPOSED RAW WATER SERVICE
- PROPOSED CONTOUR
- PROPOSED ROADWAY
- PROPOSED EASEMENT
- EXISTING SEWER
- EXISTING WATER
- EXISTING RAW WATER
- EXISTING CONTOUR

PROFILE: SEWER 1

SCALE
HORIZONTAL: 1"=30'
VERTICAL: 1"=10'



ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. LEE
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

SEWER PLAN AND PROFILES

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

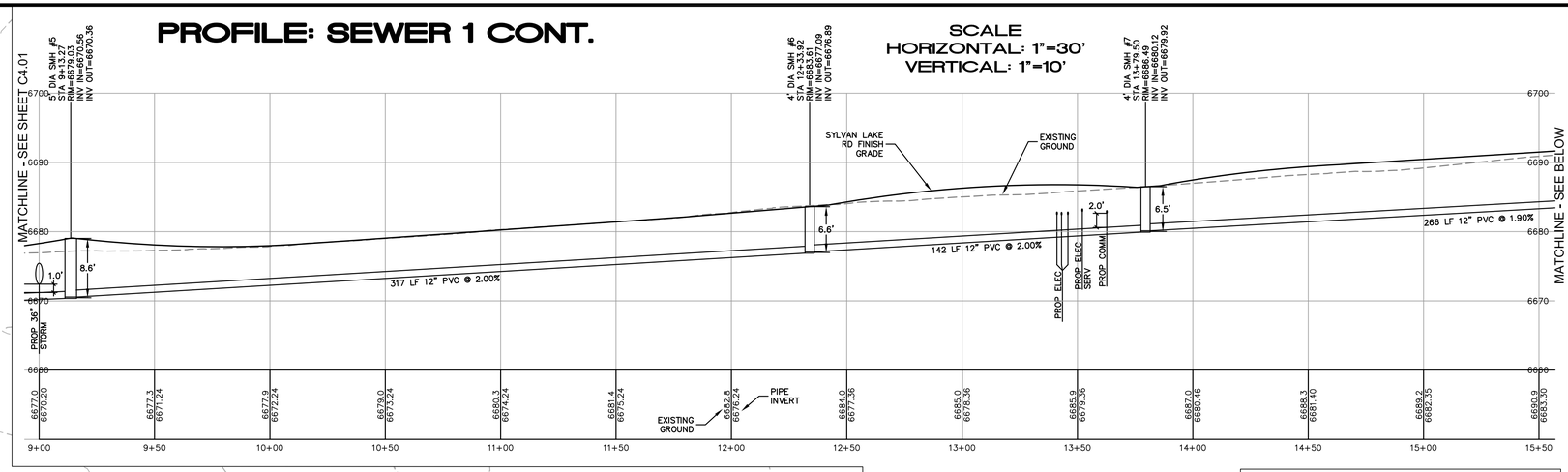
DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET
C4.01

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Utility-Sewer-Ph1.dwg, 2/21/2019 10:17:27 AM, foth

PROFILE: SEWER 1 CONT.

SCALE
HORIZONTAL: 1"=30'
VERTICAL: 1"=10'



4' DIA SEWER MH #25
RIM=6682.5
INV OUT=6673.16
TRACT E
INSTALL 87 LF 8" PVC SEWER LINE FROM SEWER MH #4, THEN INSTALL 4' DIA MH FOR FUTURE CONNECTIONS
87 LF 8" PVC @ 1.5%
5' DIA SEWER MH #5
STA 9+13.27
RIM=6679.03
INV IN=6670.55
INV OUT=6670.35
TRACT C
317 LF 12" PVC @ 2.00%
4' DIA SEWER MH #6
STA 12+33.92
RIM=6683.61
INV IN=6677.09
INV OUT=6676.89
142 LF 12" PVC @ 2.00%
S56°51'26"E
222.19'
R=55.00'
Δ=83.84°
L=80.49'
SEWER 1
4' DIA SEWER MH #7
STA 13+79.50
RIM=6686.49
INV IN=6680.12
INV OUT=6679.92
SYLVAN LAKE ROAD
266 LF 12" PVC @ 1.90%
4' DIA SEWER MH #8
STA 16+50.00
RIM=6693.63
INV IN=6685.36
INV OUT=6685.16
309 LF 12" PVC @ 2.00%
S79°06'09"E
704.22'
TRACT A
4' DIA SEWER MH #10
STA 20+31.59
RIM=6702.40
INV IN=6694.19
INV OUT=6693.99
INSTALL CAP ON INVERT OUT
END SEWER 1
65 LF 8" PVC @ 3.49%
4' DIA SEWER MH #9
STA 19+62.57
RIM=6700.43
INV IN=6691.05
INV OUT=6690.85
6700
6690
6680
6670
6660
6650
6640
6630
6620
6610
6600
6590
6580
6570
6560
6550
6540
6530
6520
6510
6500
6490
6480
6470
6460
6450
6440
6430
6420
6410
6400
6390
6380
6370
6360
6350
6340
6330
6320
6310
6300
6290
6280
6270
6260
6250
6240
6230
6220
6210
6200
6190
6180
6170
6160
6150
6140
6130
6120
6110
6100
6090
6080
6070
6060
6050
6040
6030
6020
6010
6000
5990
5980
5970
5960
5950
5940
5930
5920
5910
5900
5890
5880
5870
5860
5850
5840
5830
5820
5810
5800
5790
5780
5770
5760
5750
5740
5730
5720
5710
5700
5690
5680
5670
5660
5650
5640
5630
5620
5610
5600
5590
5580
5570
5560
5550
5540
5530
5520
5510
5500
5490
5480
5470
5460
5450
5440
5430
5420
5410
5400
5390
5380
5370
5360
5350
5340
5330
5320
5310
5300
5290
5280
5270
5260
5250
5240
5230
5220
5210
5200
5190
5180
5170
5160
5150
5140
5130
5120
5110
5100
5090
5080
5070
5060
5050
5040
5030
5020
5010
5000
4990
4980
4970
4960
4950
4940
4930
4920
4910
4900
4890
4880
4870
4860
4850
4840
4830
4820
4810
4800
4790
4780
4770
4760
4750
4740
4730
4720
4710
4700
4690
4680
4670
4660
4650
4640
4630
4620
4610
4600
4590
4580
4570
4560
4550
4540
4530
4520
4510
4500
4490
4480
4470
4460
4450
4440
4430
4420
4410
4400
4390
4380
4370
4360
4350
4340
4330
4320
4310
4300
4290
4280
4270
4260
4250
4240
4230
4220
4210
4200
4190
4180
4170
4160
4150
4140
4130
4120
4110
4100
4090
4080
4070
4060
4050
4040
4030
4020
4010
4000
3990
3980
3970
3960
3950
3940
3930
3920
3910
3900
3890
3880
3870
3860
3850
3840
3830
3820
3810
3800
3790
3780
3770
3760
3750
3740
3730
3720
3710
3700
3690
3680
3670
3660
3650
3640
3630
3620
3610
3600
3590
3580
3570
3560
3550
3540
3530
3520
3510
3500
3490
3480
3470
3460
3450
3440
3430
3420
3410
3400
3390
3380
3370
3360
3350
3340
3330
3320
3310
3300
3290
3280
3270
3260
3250
3240
3230
3220
3210
3200
3190
3180
3170
3160
3150
3140
3130
3120
3110
3100
3090
3080
3070
3060
3050
3040
3030
3020
3010
3000
2990
2980
2970
2960
2950
2940
2930
2920
2910
2900
2890
2880
2870
2860
2850
2840
2830
2820
2810
2800
2790
2780
2770
2760
2750
2740
2730
2720
2710
2700
2690
2680
2670
2660
2650
2640
2630
2620
2610
2600
2590
2580
2570
2560
2550
2540
2530
2520
2510
2500
2490
2480
2470
2460
2450
2440
2430
2420
2410
2400
2390
2380
2370
2360
2350
2340
2330
2320
2310
2300
2290
2280
2270
2260
2250
2240
2230
2220
2210
2200
2190
2180
2170
2160
2150
2140
2130
2120
2110
2100
2090
2080
2070
2060
2050
2040
2030
2020
2010
2000
1990
1980
1970
1960
1950
1940
1930
1920
1910
1900
1890
1880
1870
1860
1850
1840
1830
1820
1810
1800
1790
1780
1770
1760
1750
1740
1730
1720
1710
1700
1690
1680
1670
1660
1650
1640
1630
1620
1610
1600
1590
1580
1570
1560
1550
1540
1530
1520
1510
1500
1490
1480
1470
1460
1450
1440
1430
1420
1410
1400
1390
1380
1370
1360
1350
1340
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240
1230
1220
1210
1200
1190
1180
1170
1160
1150
1140
1130
1120
1110
1100
1090
1080
1070
1060
1050
1040
1030
1020
1010
1000
990
980
970
960
950
940
930
920
910
900
890
880
870
860
850
840
830
820
810
800
790
780
770
760
750
740
730
720
710
700
690
680
670
660
650
640
630
620
610
600
590
580
570
560
550
540
530
520
510
500
490
480
470
460
450
440
430
420
410
400
390
380
370
360
350
340
330
320
310
300
290
280
270
260
250
240
230
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
-120
-130
-140
-150
-160
-170
-180
-190
-200
-210
-220
-230
-240
-250
-260
-270
-280
-290
-300
-310
-320
-330
-340
-350
-360
-370
-380
-390
-400
-410
-420
-430
-440
-450
-460
-470
-480
-490
-500
-510
-520
-530
-540
-550
-560
-570
-580
-590
-600
-610
-620
-630
-640
-650
-660
-670
-680
-690
-700
-710
-720
-730
-740
-750
-760
-770
-780
-790
-800
-810
-820
-830
-840
-850
-860
-870
-880
-890
-900
-910
-920
-930
-940
-950
-960
-970
-980
-990
-1000
-1010
-1020
-1030
-1040
-1050
-1060
-1070
-1080
-1090
-1100
-1110
-1120
-1130
-1140
-1150
-1160
-1170
-1180
-1190
-1200
-1210
-1220
-1230
-1240
-1250
-1260
-1270
-1280
-1290
-1300
-1310
-1320
-1330
-1340
-1350
-1360
-1370
-1380
-1390
-1400
-1410
-1420
-1430
-1440
-1450
-1460
-1470
-1480
-1490
-1500
-1510
-1520
-1530
-1540
-1550
-1560
-1570
-1580
-1590
-1600
-1610
-1620
-1630
-1640
-1650
-1660
-1670
-1680
-1690
-1700
-1710
-1720
-1730
-1740
-1750
-1760
-1770
-1780
-1790
-1800
-1810
-1820
-1830
-1840
-1850
-1860
-1870
-1880
-1890
-1900
-1910
-1920
-1930
-1940
-1950
-1960
-1970
-1980
-1990
-2000
-2010
-2020
-2030
-2040
-2050
-2060
-2070
-2080
-2090
-2100
-2110
-2120
-2130
-2140
-2150
-2160
-2170
-2180
-2190
-2200
-2210
-2220
-2230
-2240
-2250
-2260
-2270
-2280
-2290
-2300
-2310
-2320
-2330
-2340
-2350
-2360
-2370
-2380
-2390
-2400
-2410
-2420
-2430
-2440
-2450
-2460
-2470
-2480
-2490
-2500
-2510
-2520
-2530
-2540
-2550
-2560
-2570
-2580
-2590
-2600
-2610
-2620
-2630
-2640
-2650
-2660
-2670
-2680
-2690
-2700
-2710
-2720
-2730
-2740
-2750
-2760
-2770
-2780
-2790
-2800
-2810
-2820
-2830
-2840
-2850
-2860
-2870
-2880
-2890
-2900
-2910
-2920
-2930
-2940
-2950
-2960
-2970
-2980
-2990
-3000
-3010
-3020
-3030
-3040
-3050
-3060
-3070
-3080
-3090
-3100
-3110
-3120
-3130
-3140
-3150
-3160
-3170
-3180
-3190
-3200
-3210
-3220
-3230
-3240
-3250
-3260
-3270
-3280
-3290
-3300
-3310
-3320
-3330
-3340
-3350
-3360
-3370
-3380
-3390
-3400
-3410
-3420
-3430
-3440
-3450
-3460
-3470
-3480
-3490
-3500
-3510
-3520
-3530
-3540
-3550
-3560
-3570
-3580
-3590
-3600
-3610
-3620
-3630
-3640
-3650
-3660
-3670
-3680
-3690
-3700
-3710
-3720
-3730
-3740
-3750
-3760
-3770
-3780
-3790
-3800
-3810
-3820
-3830
-3840
-3850
-3860
-3870
-3880
-3890
-3900
-3910
-3920
-3930
-3940
-3950
-3960
-3970
-3980
-3990
-4000
-4010
-4020
-4030
-4040
-4050
-4060
-4070
-4080
-4090
-4100
-4110
-4120
-4130
-4140
-4150
-4160
-4170
-4180
-4190
-4200
-4210
-4220
-4230
-4240
-4250
-4260
-4270
-4280
-4290
-4300
-4310
-4320
-4330
-4340
-4350
-4360
-4370
-4380
-4390
-4400
-4410
-4420
-4430
-4440
-4450
-4460
-4470
-4480
-4490
-4500
-4510
-4520
-4530
-4540
-4550
-4560
-4570
-4580
-4590
-4600
-4610
-4620
-4630
-4640
-4650
-4660
-4670
-4680
-4690
-4700
-4710
-4720
-4730
-4740
-4750
-4760
-4770
-4780
-4790
-4800
-4810
-4820
-4830
-4840
-4850
-4860
-4870
-4880
-4890
-4900
-4910
-4920
-4930
-4940
-4950
-4960
-4970
-4980
-4990
-5000
-5010
-5020
-5030
-5040
-5050
-5060
-5070
-5080
-5090
-5100
-5110
-5120
-5130
-5140
-5150
-5160
-5170
-5180
-5190
-5200
-5210
-5220
-5230
-5240
-5250
-5260
-5270
-5280
-5290
-5300
-5310
-5320
-5330
-5340
-5350
-5360
-5370
-5380
-5390
-5400
-5410
-5420
-5430
-5440
-5450
-5460
-5470
-5480
-5490
-5500
-5510
-5520
-5530
-5540
-5550
-5560
-5570
-5580
-5590
-5600
-5610
-5620
-5630
-5640
-5650
-5660
-5670
-5680
-5690
-5700
-5710
-5720
-5730
-5740
-5750
-5760
-5770
-5780
-5790
-5800
-5810
-5820
-5830
-5840
-5850
-5860
-5870
-5880
-5890
-5900
-5910
-5920
-5930
-5940
-5950
-5960
-5970
-5980
-5990
-6000
-6010
-6020
-6030
-6040
-6050
-6060
-6070
-6080
-6090
-6100
-6110
-6120
-6130
-6140
-6150
-6160
-6170
-6180
-6190
-6200
-6210
-6220
-6230
-6240
-6250
-6260
-6270
-6280
-6290
-6300
-6310
-6320
-6330
-6340
-6350
-6360
-6370
-6380
-6390
-6400
-6410
-6420
-6430
-6440
-6450
-6460
-6470
-6480
-6490
-6500
-6510
-6520
-6530
-6540
-6550
-6560
-6570
-6580
-6590
-6600
-6610
-6620
-6630
-6640
-6650
-6660
-6670
-6680
-6690
-6700
-6710
-6720
-6730
-6740
-6750
-6760
-6770
-6780
-6790
-6800
-6810
-6820
-6830
-6840
-6850
-6860
-6870
-6880
-6890
-6900
-6910
-6920
-6930
-6940
-6950
-6960
-6970
-6980
-6990
-7000
-7010
-7020
-7030
-7040
-7050
-7060
-7070
-7080
-7090
-7100
-7110
-7120
-7130
-7140
-7150
-7160
-7170
-7180
-7190
-7200
-7210
-7220
-7230
-7240
-7250
-7260
-7270
-7280
-7290
-7300
-7310
-7320
-7330
-7340
-7350
-7360
-7370
-7380
-7390
-7400
-7410
-7420
-7430
-7440
-7450
-7460
-7470
-7480
-7490
-7500
-7510
-7520
-7530
-7540
-7550
-7560
-7570
-7580
-7590
-7600
-7610
-7620
-7630
-7640
-7650
-7660
-7670
-7680
-7690
-7700
-7710
-7720
-7730
-7740
-7750
-7760
-7770
-7780
-7790
-7800
-7810
-7820
-7830
-7840
-7850
-7860
-7870
-7880
-7890
-7900
-7910
-7920
-7930
-7940
-7950
-7960
-7970
-7980
-7990
-8000
-8010
-8020
-8030
-8040
-8050
-8060
-8070
-8080
-8090
-8100
-8110
-8120
-8130
-8140
-8150
-8160
-8170
-8180
-8190
-8200
-8210
-8220
-8230
-8240
-8250
-8260
-8270
-8280
-8290
-8300
-8310
-8320
-8330
-8340
-8350
-8360
-8370
-8380
-8390
-8400
-8410
-8420
-8430
-8440
-8450
-8460
-8470
-8480
-8490
-8500
-8510
-8520
-8530
-8540
-8550
-8560
-8570
-8580
-8590
-8600
-8610
-8620
-8630
-8640
-8650
-8660
-8670
-8680
-8690
-8700
-8710
-8720
-8730
-8740
-8750
-8760
-8770
-8780
-8790
-8800
-8810
-8820
-8830
-8840
-8850
-8860
-8870
-8880
-8890
-8900
-8910
-8920
-8930
-8940
-8950
-8960
-8970
-8980
-8990
-9000
-9010
-9020
-9030
-9040
-9050
-9060
-9070
-9080
-9090
-9100
-9110
-9120
-9130
-9140
-9150
-9160
-9170
-9180
-9190
-9200
-9210
-9220
-9230
-9240
-9250
-9260
-9270
-9280
-9290
-9300
-9310
-9320
-9330
-9340
-9350
-9360
-9370
-9380
-9390
-9400
-9410
-9420
-9430
-9440
-9450
-9460
-9470
-9480
-9490
-9500
-9510
-9520
-9530
-9540
-9550
-9560
-9570
-9580
-9590
-9600
-9610
-9620
-9630
-9640
-9650
-9660
-9670
-9680
-9690
-9700
-9710
-9720
-9730
-9740
-9750
-9760
-9770
-9780
-9790
-9800
-9810
-9820
-9830
-9840
-9850
-9860
-9870
-9880
-9890
-9900
-9910
-9920
-9930
-9940
-9950
-9960
-9970
-9980
-9990
-10000
-10010
-10020
-10030
-10040
-10050
-10060
-10070
-10080
-10090
-10100
-10110
-10120
-10130
-10140
-10150
-10160
-10170
-10180
-10190
-10200
-10210
-10220
-10230
-10240
-10250
-10260
-10270
-10280
-10290
-10300
-10310
-10320
-10330
-10340
-10350
-10360
-10370
-10380
-10390
-10400
-10410
-10420
-10430
-10440
-10450
-10460
-10470
-10480
-10490
-10500
-10510
-10520
-10530
-10540
-10550
-10560
-10570
-10580
-10590
-10600
-10610
-10620
-10630
-10640
-10650
-10660
-10670
-10680
-10690
-10700
-10710
-10720
-10730
-10740
-10750
-10760
-10770
-10780
-10790
-10800
-10810
-10820
-10830
-10840
-10850
-10860
-10870
-10880
-10890
-10900
-10910
-10920
-10930
-10940
-10950
-10960
-10970
-10980
-10990
-11000
-11010
-11020
-11030
-11040
-11050
-11060
-11070
-11080
-11090
-11100
-11110
-11120
-11130
-11140
-11150
-11160
-11170
-11180
-11190
-11200
-11210
-11220
-11230
-11240
-11250
-11260
-11270
-11280
-11290
-11300
-11310
-11320
-11330
-11340
-11350
-11360
-11370
-11380
-11390
-11400
-11410
-11420
-11430
-11440
-11450
-11460
-11470
-11480
-11490
-11500
-11510
-11520
-11530
-11540
-11550
-11560
-11570
-11580
-11590
-11600
-11610
-11620
-11630
-11640
-11650
-11660
-11670
-11680
-11690
-11700
-11710
-11720
-11730
-11740
-11750
-11760
-11770
-11780
-11790
-11800
-11810
-11820
-11830
-11840
-11850
-11860
-11870
-11880
-11890
-11900
-11910
-11920
-11930
-11940
-11950
-11960
-11970
-11980
-11990
-12000
-12010
-12020
-12030
-12040
-12050
-12060
-12070
-12080
-12090
-12100
-12110
-12120
-12130
-12140
-12150
-12160
-12170
-12180
-12190
-12200
-12210
-12220
-12230
-12240
-12250
-12260
-12270
-12280
-12290
-12300
-12310
-12320
-12330
-12340
-12350
-12360
-12370
-12380
-12390
-12400
-12410
-12420
-12430
-12440
-12450
-12460
-12470
-12480
-12490
-12500
-12510
-12520
-12530
-12540
-12550
-12560
-12570
-12580
-12590
-12600
-12610
-12620
-12630
-12640
-12650
-12660
-12670
-12680
-12690
-12700
-12710
-12720
-12730
-12740
-12750
-12760
-12770
-12780
-12790
-12800
-12810
-12820
-12830
-12840
-12850
-12860
-12870
-12880
-12890
-12900
-12910
-12920
-12930
-12940
-12950
-12960
-12970
-12980
-12990
-13000
-13010
-13020
-13030
-13040
-13050
-13060
-13070
-13080
-13090
-13100
-13110
-13120
-13130
-13140
-13150
-13160
-13170
-13180
-13190
-13200
-13210
-13220
-13230
-13240
-13250
-13260
-13270
-13280
-13290
-13300
-13310
-13320
-13330
-13340
-13350
-13360
-13370
-13380
-13390
-13400
-13410
-13420
-13430
-13440
-13450
-13460
-13470
-13480
-13490
-13500
-13510
-13520
-13530
-13540
-13550
-13560
-13570
-13580
-13590
-13600
-13610
-13620
-13630
-13640
-13650
-13660
-13670
-13680
-13690
-13700
-13710
-13720
-13730
-13740
-13750
-13760
-13770
-13780
-13790
-13800
-13810
-13820
-13830
-13840
-13850
-13860
-13870
-13880
-13890
-13900
-13910
-13920
-13930
-13940
-13950
-13960
-13970
-13980
-13990
-14000
-14010
-14020
-14030
-14040
-14050
-14060
-14070
-14080
-14090
-14100
-14110
-14120
-14130
-14140
-14150
-14160
-14170
-14180
-14190
-14200
-14210
-14220
-14230
-14240
-14250
-14260
-14270
-14280
-14290
-14300
-14310
-14320
-14330
-14340
-14350
-14360
-14370
-14380
-14390
-14400
-14410
-14420
-14430
-14440
-14450
-14460
-14470
-14480
-14490
-14500
-14510
-14520
-14530
-14540
-14550
-14560
-14570
-14580
-14590
-14600
-14610
-14620
-14630
-14640
-14650
-14660
-14670
-14680
-14690
-14700
-14710
-14720
-14730
-14740
-14750
-14760
-14770
-14780
-14790
-14800
-14810
-14820
-14830
-14840
-14850
-14860
-14870
-14880
-14890
-14900
-14910
-14920
-14930
-14940
-14950
-14960
-14970
-14980
-14990
-15000
-15010
-15020
-15030
-15040
-15050
-15060
-15070
-15080
-15090
-15100
-15110
-15120
-15130
-15140
-15150
-15160
-15170
-15180
-15190
-15200
-15210
-15220
-15230
-15240
-15250
-15260
-15270
-15280
-15290
-15300
-15310
-15320
-15330
-15340
-15350
-15360
-15370
-15380
-15390
-15400
-15410
-15420
-15430
-15440
-15450
-15460
-15470
-15480
-15490
-15500
-15510
-15520
-15530
-15540
-15550
-15560
-15570
-15580
-15590
-15600
-15610
-15620
-15630
-15640
-15650
-15660
-15670
-15680
-15690
-15700
-15710
-15720
-15730
-15740
-15750
-15760
-15770
-15780
-15790
-15800
-15810
-15820
-15830
-15840
-15850
-15860
-15870
-15880
-15890
-15900
-15910
-15920
-15930
-15940
-15950
-15960
-15970
-15980
-15990
-16000
-16010
-16020
-16030
-16040
-16050
-16060
-16070
-16080
-16090
-16100
-16110
-16120
-16130
-16140
-16150
-16160
-16170
-16180
-16190
-16200
-16210
-16220
-16230
-16240
-16250
-16260
-16270
-16280
-16290
-16300
-16310
-16320
-16330
-16340
-16350
-16360
-16370
-16380
-16390
-16400
-16410
-16420
-16430
-16440
-16450
-16460
-16470
-16480
-16490
-16500
-16510
-16520
-16530
-16540
-16550
-16560
-16570
-16580
-16590
-16600
-16610
-16620
-16630
-16640
-16650
-16660
-16670
-16680
-16690
-16700
-16710
-16720
-16730
-16740
-16750
-16760
-16770
-16780
-16790
-16800
-16810
-16820
-16830
-16840
-16850
-16860
-16870
-16880
-16890
-16900
-16910
-16920
-16930
-16940
-16950
-16960
-16970
-16980
-16990
-17000
-17010
-17020
-17030
-17040
-17050
-17060
-17070
-17080
-17090
-17100
-17110
-17120
-17130
-17140
-17150
-17160
-17170
-17180
-17190
-17200
-17210
-17220
-17230
-17240
-17250
-17260
-17270
-17280
-17290
-17300
-17310
-17320
-17330
-17340
-17350
-17360
-17370
-17380
-17390
-17400
-17410
-17420
-17430
-17440
-17450
-17460
-17470
-17480
-17490
-17500
-17510
-17520
-17530
-17540
-17550
-17560
-17570
-17580
-17590
-17600
-17610
-17620
-17630
-17640
-17650
-17660
-17670
-17680
-17690
-17700
-17710
-17720
-17730
-17740
-17750
-17760
-17770
-17780
-17790
-17800
-17810
-17820
-17830
-17840
-17850
-17860
-17870
-17880
-17890
-17900
-17910
-17920
-17930
-17940
-17950
-17960
-17970
-17980
-17990
-18000
-18010
-18020
-18030
-18040
-18050
-18060
-18070
-18080
-18090
-18100
-18110
-18120
-18130
-18140
-18150
-18160
-18170
-18180
-18190
-18200
-18210
-18220
-18230
-18240
-18250
-18260
-18270
-18280
-18290
-18300
-18310
-18320
-18330
-18340
-18350
-18360
-18370
-18380
-18390
-18400
-18410
-18420
-18430
-18440
-18450
-18460
-18470
-18480
-18490
-18500
-18510
-18520
-18530
-18540
-18550
-18560
-18570
-18580
-18590
-18600
-18610
-18620
-18630
-18640
-18650
-18660
-18670
-18680
-18690
-18700
-18710
-18720
-18730
-18740
-18750
-18760
-18770
-18780
-18790
-18800
-18810
-18820
-18830
-18840
-18850
-18860
-18870
-18880
-18890
-18900
-18910
-18920
-18930
-18940
-18950
-18960
-18970
-18980
-18990
-19000
-19010
-19020
-19030
-19040
-19050
-19060
-19070
-19080
-19090
-19100
-19110
-19120
-19130
-19140
-19150
-19160
-19170
-19180
-19190
-19200
-19210
-19220
-19230
-19240
-19250
-19260
-19270
-19280
-19290
-19300
-19310
-19320
-19330
-19340
-19350
-19360
-19370
-19380
-19390
-19400
-19410
-19420
-19430
-19440
-19450
-19460
-19470
-19480
-19490
-19500
-19510
-19520
-19530
-19540
-19550
-19560
-19570
-19580
-19590
-19600
-19610
-19620
-19630
-19640
-19650
-19660
-19670
-19680
-19690
-19700
-19710
-19720
-19730
-19740
-19750
-19760
-19770
-19780
-19790
-19800
-19810
-19820
-19830
-19840
-19850
-19860
-19870
-19880
-19890
-19900
-19910
-19920
-19930
-19940
-19950
-19960
-19970
-19980
-19990
-20000
-20010
-20020
-20030
-20040
-20050
-20060
-20070
-20080
-20090
-20100
-20110
-20120
-20130
-20140
-20150
-20160
-20170
-20180
-20190
-20200
-20210
-20220
-20230
-20240
-20250
-20260
-20270
-20280
-20290
-20300
-20310
-20320
-20330
-20340
-20350
-20360
-20370
-20380
-20390
-20400
-20410
-20420
-20430
-20440
-20450
-20460
-20470
-20480
-20490
-20500
-20510
-20520
-20530
-20540
-20550
-20560
-20570
-20580
-20590
-20600
-20610
-20620
-20630
-20640
-20650
-20660
-20670
-20680
-20690
-20700
-20710
-20720
-20730
-20740
-20750
-20760
-20770
-20780
-20790
-20800
-20810
-20820
-20830
-20840
-20850
-20860
-20870
-20880
-20890
-20900
-20910
-20920
-20930
-20940
-20950
-20960
-20970
-20980
-20990
-21000
-21010
-21020
-21030
-21040
-21050
-21060
-21070
-21080
-21090
-21100
-21110
-21120
-21130
-21140
-21150
-21160
-21170
-21180
-21190
-21200
-21210
-21220
-21230
-21240
-21250
-21260
-21270
-21280
-21290
-21300
-21310
-21320
-21330
-21340
-21350
-21360
-21370
-21380
-21390
-21400
-21410
-21420
-21430
-21440
-21450
-21460
-21470
-21480
-21490
-21500
-21510
-21520
-21530
-21540
-21550
-21560
-21570
-21580
-21590
-21600
-21610
-21620
-21630
-21640
-21650
-21660
-21670
-21680
-21690
-21700
-21710
-21720
-21730
-21740
-21750
-21760
-21770
-21780
-21790
-21800
-21810
-21820
-21830
-21840
-21850
-21860
-21870
-21880
-21890
-21900
-21910
-21920
-21930
-21940
-21950
-21960
-21970
-21980
-21990
-22000
-22010
-22020
-22030
-22040
-22050
-22060
-22070
-22080
-22090
-22100
-22110
-22120
-22130
-22140
-22150
-22160
-22170
-22180
-22190
-22200
-22210
-22220
-22230
-22240
-22250
-22260
-22270
-22280
-22290
-22300
-22310
-22320
-22330
-22340
-22350
-22360
-22370
-22380
-22390
-22400
-22410
-22420
-22430
-22440
-22450
-22460
-22470
-22480
-22490
-22500
-22510
-22520
-22530
-22540
-22550
-22560
-22570
-22580
-22590
-22600
-22610
-22620
-22630
-22640
-22650
-22660
-22670
-22680
-22690
-22700
-22710
-22720
-22730
-22740
-22750
-22760
-22770
-22780
-22790
-22800
-22810
-22820
-22830
-22840
-22850
-22860
-22870
-22880
-22890
-22900
-22910
-22920
-22930
-22940
-22950
-22960
-22970
-22980
-22990
-23000
-23010
-23020
-23030
-23040
-23050
-23060
-23070
-23080
-23090
-23100
-23110
-23120
-23130
-23140
-23150
-23160
-23170
-23180
-23190
-23200
-23210
-23220
-23230
-23240
-23250
-23260
-23270
-23280
-23290
-23300
-23310
-23320
-23330
-23340
-23350
-23360
-23370
-23380
-23390
-23400
-23410
-23420
-23430
-23440
-23450
-23460
-23470
-23480
-23490
-23500
-23510
-23520
-23530
-23540
-23550
-23560
-23570
-23580
-23590
-23600
-23610
-23620
-23630
-23640
-23650
-23660
-23670
-23680
-23690
-23700
-23710
-23720
-23730
-23740
-23750
-23760
-23770
-23780
-23790
-23800
-23810
-23820
-23830
-23840
-23850
-23860
-23870
-23880
-23890
-23900
-23910
-23920
-23930
-23940
-23950
-23960
-23970
-23980
-23990
-24000
-24010
-24020
-24030
-24040
-24050
-24060
-24070
-24080
-24090
-24100
-24110
-24120
-24130
-24140
-24150
-24160
-24170
-24180
-24190
-24200
-24210
-24220
-24230
-24240
-24250
-24260
-24270
-24280
-24290
-24300
-24310
-24320
-24330
-24340
-24350
-24360
-24370
-24380
-24390
-24400
-24410
-24420
-24430
-24440
-24450
-24460
-24470
-24480
-24490
-24500
-24510
-24520
-24530
-24540
-24550
-24560
-24570
-24580
-24590
-24600
-24610
-24620
-24630
-24640
-24650
-24660
-24670
-24680
-24690
-24700
-24710
-24720
-24730
-24740
-24750
-24760
-24770
-24780
-24790
-24800
-24810
-24820
-24830
-24840
-24850
-24860
-24870
-24880
-24890
-24900
-24910
-24920
-24930
-24940
-24950
-24960
-24970
-24980
-24990
-25000
-25010
-25020
-25030
-25040
-25050
-25060
-25070
-25080
-25090
-25100
-25110
-25120
-25130
-25140
-25150
-25160
-25170
-25180
-25190
-25200
-25210
-25220
-25230
-25240
-25250
-25260
-25270
-25280
-25290
-25300
-25310
-25320
-25330
-25340
-25350
-25360
-25370
-25380
-25390
-25400
-25410
-25420
-25430
-25440
-25450
-25460
-25470
-25480
-25490
-25500
-25510
-25520
-25530
-25540
-25550
-25560
-25570
-25580
-25590
-25600
-25610
-25620
-25630
-25640
-25650
-25660
-25670
-25680
-25690
-25700
-25710
-25720
-25730
-25740
-25750
-25760
-25770
-25780
-25790
-25800
-25810
-25820
-25830
-25840
-25850
-25860
-25870
-25880
-25890
-25900
-25910
-25920
-25930
-25940
-25950
-25960
-25970
-25980
-25990
-26000
-26010
-26020
-26030
-26040
-26050
-26060
-26070
-26080
-26090
-26100
-26110
-26120
-26130
-26140
-26150
-26160
-26170
-26180
-26190
-26200
-26210
-26220
-26230
-26240
-26250
-26260
-26270
-26280
-26290
-26300
-26310
-26320
-26330
-26340
-26350
-26360
-26370
-26380
-26390
-26400
-26410
-26420
-26430
-26440
-26450
-26460
-26470
-26480
-26490
-26500
-26510
-26520
-26530
-26540
-26550
-26560
-26570
-26580
-26590
-26600
-26610
-26620
-26630
-26640
-26650
-26660
-26670
-26680
-26690
-26700
-26710
-26720
-26730
-26740
-26750
-26760
-26770
-26780
-26790
-26800
-26810
-26820
-26830
-26840
-26850
-26860
-26870
-26880
-26890
-26900
-26910
-26920
-26930
-26940
-26950
-26960
-26970
-26980
-26990
-27000
-27010
-27020
-27030
-27040
-27050
-27060
-27070
-27080
-27090
-27100
-27110
-27120
-27130
-27140
-27150
-27160
-27170
-27180
-27190
-27200
-27210
-27220
-27230
-27240
-27250
-27260
-27270
-27280
-27290
-27300
-27310
-27320
-27330
-27340
-27350
-27360
-27370
-27380
-27390
-27400
-27410
-27420
-27430
-27440
-27450
-27460
-27470
-27480
-27490
-27500
-27510
-27520
-27530
-27540
-27550
-27560
-27570
-27580
-27590
-27600
-27610
-27620
-27630
-27640
-27650
-27660
-27670
-27680
-27690
-27700
-27710
-27720
-27730
-27740
-27750
-27760
-27770
-27780
-27790
-27800
-27810
-27820
-27830
-27840
-27850
-27860
-27870
-27880
-27890
-27900
-27910
-27920
-27930
-27940
-27950
-27960
-27970
-27980
-27990
-28000
-28010
-28020
-28030
-28040
-28050
-28060
-28070
-28080
-28090
-28100
-28110
-28120
-28130
-28140
-28150
-28160
-28170
-28180
-28190
-28200
-28210
-28220
-28230
-28240
-28250
-28260
-28270
-28280
-28290
-28300
-28310
-28320
-28330
-28340
-28350
-28360
-28370
-28380
-28390
-28400
-28410
-28420
-28430
-28440
-28450
-28460
-28470
-28480
-28490
-28500
-28510
-28520
-28530
-28540
-28550
-28560
-28570
-28580
-28590
-28600
-28610
-28620
-28630
-28640
-28650
-28660
-28670
-28680
-28690
-28700
-28710
-28720
-28730
-28740
-28750
-28760
-28770
-28780
-28790
-28800
-28810
-28820
-28830
-28840
-28850
-28860
-28870
-28880
-28890
-28900
-28910
-28920
-28930
-28940
-28950
-28960
-28970
-28980
-28990
-29000
-29010
-29020
-29030
-29040
-29050
-29060
-29070
-29080
-29090
-29100
-29110
-29120
-29130
-29140
-29150
-29160
-29170
-29180
-29190
-29200
-29210
-29220
-29230
-29240
-29250
-29260
-29270
-29280
-29290
-29300
-29310
-29320
-29330
-29340
-29350
-29360
-29370
-29380
-29390
-29400
-29410
-29420
-29430
-29440
-29450
-29460
-29470
-29480
-29490
-29500
-29510
-29520
-29530
-29540
-29550
-29560
-29570
-29580
-29590
-29600
-29610
-29620
-29630
-29640
-29650
-29660
-29670
-29680
-29690
-29700
-29710
-29720
-29730
-29740
-29750
-29760
-29770
-29780
-29790
-29800
-29810
-29820
-29830
-29840
-29850
-29860
-29870
-29880
-29890
-29900
-29910
-29920
-29930
-29940
-29950
-29960
-29970
-29980
-29990
-30000
-30010
-30020
-30030
-30040
-30050
-30060
-30070
-30080
-30090
-30100
-30110
-30120
-30130
-30140
-30150
-30160
-30170
-30180
-30190
-30200
-30210
-30220
-30230
-30240
-30250
-30260
-30270
-30280
-30290
-30300
-30310
-30320
-30330
-30340
-30350
-30360
-30370
-30380
-30390
-30400
-30410
-30420
-30430
-30440
-30450
-30460
-30470
-30480
-30490
-30500
-30510
-30520
-30530
-30540
-30550
-30560
-30570
-30580
-30590
-30600
-30610
-30620
-30630
-30640
-30650
-30660
-30670
-30680
-30690
-30700
-30710
-30720
-30730
-30740
-30750
-30760
-30770
-30780
-30790
-30800
-30810
-30820
-30830
-30840
-30850
-30860
-30870
-30880
-30890
-30900
-30910
-30920
-30930
-30940
-30950
-30960
-30970
-30980
-30990
-31000
-31010
-31020
-31030
-31040
-31050
-31060
-31070
-31080
-31090
-31100
-31110
-31120
-31130
-31140
-31150
-31160
-31170
-31180
-31190
-31200
-31210
-31220
-31230
-31240
-31250
-31260
-31270
-31280
-31290
-31300
-31310
-31320
-31330
-31340
-31350
-31360
-31370
-31380
-31390
-31400
-31410
-31420
-31430
-31440
-31450
-31460
-31470
-31480
-31490
-31500
-31510
-31520
-31530
-31540
-31550
-31560
-31570
-31580
-31590
-31600
-31610
-31620
-31630
-31640
-31650
-31660
-31670
-31680
-31690
-31700
-31710
-31720
-31730
-31740
-31750
-31760
-31770
-31780
-31790
-31800
-31810
-31820
-31830
-31840
-31850
-31860
-31870
-31880
-31890
-31900
-31910
-31920
-31930
-31940
-31950
-31960
-31970
-31980
-31990
-32000
-32010
-32020
-32030
-32040
-32050
-32060
-32070
-32080
-32090
-32100
-32110
-32120
-32130
-32140
-32150
-32160
-32170
-32180
-32190
-32200
-32210
-32220
-32230
-32240
-32250
-32260
-32270
-32280
-32290
-32300
-32310
-32320
-32330
-32340
-32350
-32360
-32370
-32380
-32390
-32400
-32410

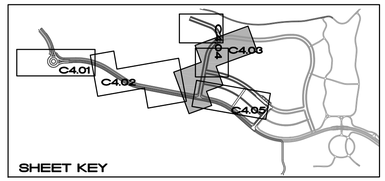
IN ACCORDANCE WITH TOE PUBLIC WORKS MANUAL (SECTION 1.08), INSTALL C-900 WITH HARCO COUPLERS 10' EACH SIDE OF WATER LINE AT CROSSINGS

GRAPHIC SCALE

0 15 30 60

SCALE: 1"= 30'

SHEET KEY



LEGEND

- PROPOSED WATER MAIN W/BEND, THRUST BLOCK
- PROPOSED WATER SERVICE W/ CURB STOP
- PROPOSED FIRE HYDRANT/GV ASSEMBLY
- (A) 11.25° BEND
- (B) 22.5° BEND
- (C) 45° BEND
- PROPOSED SANITARY SEWER MAIN W/ MANHOLE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED STORM SEWER & INLETS
- PROPOSED RAW WATER, VARIOUS SIZES
- PROPOSED RAW WATER SERVICE
- 6678 PROPOSED CONTOUR
- PROPOSED ROADWAY
- PROPOSED EASEMENT
- EXISTING SEWER
- EXISTING WATER
- EXISTING RAW WATER
- EXISTING CONTOUR

PROFILE: SEWER 4

SCALE
HORIZONTAL: 1"=30'
VERTICAL: 1"=10'

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED MATTHEW C. RIL 39865 PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

SEWER PLAN AND PROFILES

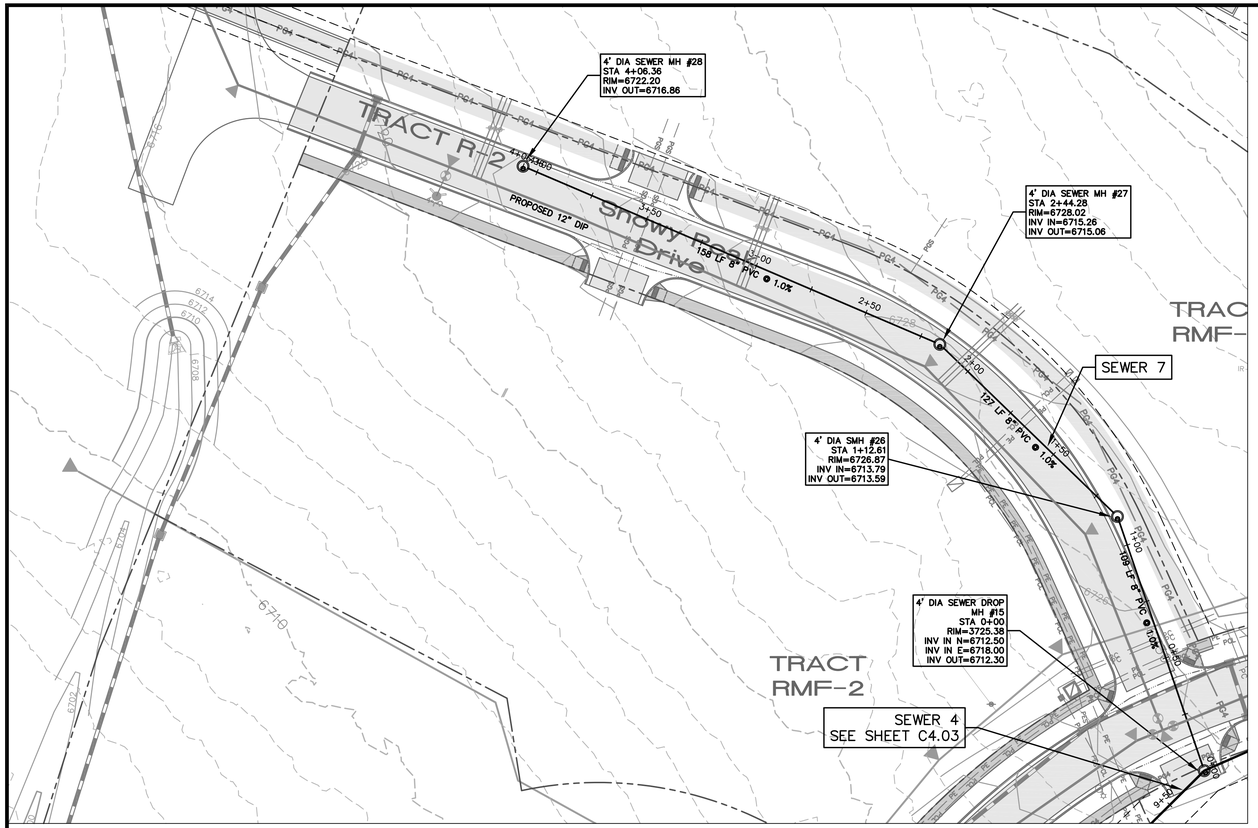
NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

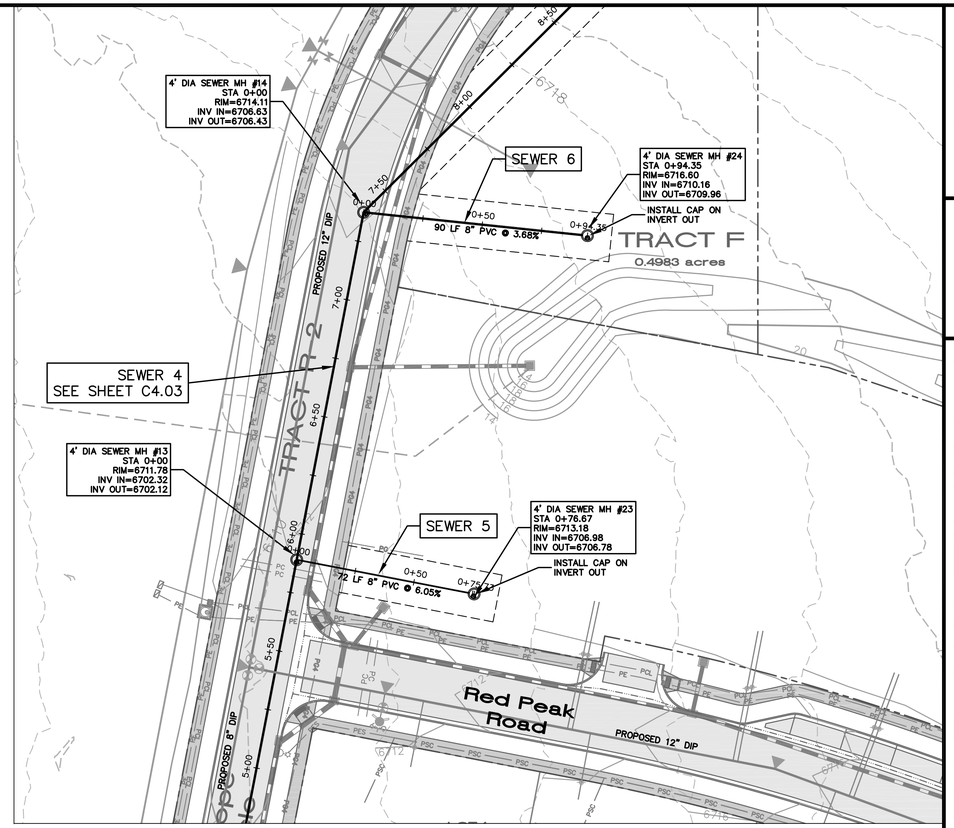
END FILING 1 (SEWER 4)

DESIGNED	MW, RL
DRAWN	RF
CHECKED	MCW
JOB NO.	53480.5
DATE	02/20/2019

SHEET C4.03

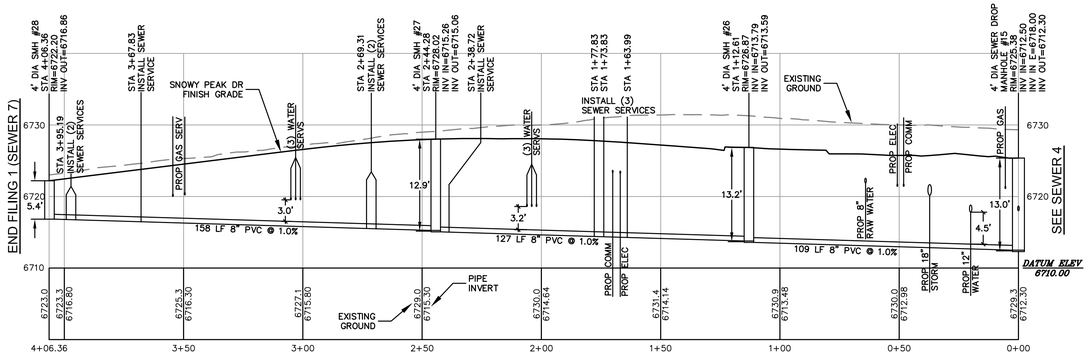
O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Utility-Sewer-Ph1.dwg, 2/21/2019 10:23:22 AM, toth

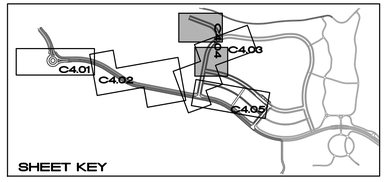




PROFILE: SEWER 7

SCALE
HORIZONTAL: 1"=30'
VERTICAL: 1"=10'



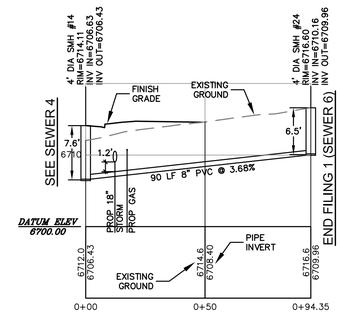


GRAPHIC SCALE
0 15 30 60
SCALE: 1"= 30'

LEGEND

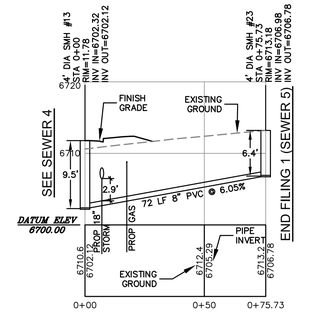
- PROPOSED WATER MAIN W/BEND, THRUST BLOCK
- PROPOSED WATER SERVICE W/ CURB STOP
- PROPOSED FIRE HYDRANT/GV ASSEMBLY
- A 11.25° BEND
- B 22.5° BEND
- C 45° BEND
- PROPOSED SANITARY SEWER MAIN W/ MANHOLE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED STORM SEWER & INLETS
- PROPOSED RAW WATER, VARIOUS SIZES
- PROPOSED RAW WATER SERVICE
- 6678 PROPOSED CONTOUR
- PROPOSED ROADWAY
- PROPOSED EASEMENT
- EXISTING SEWER
- EXISTING WATER
- EXISTING RAW WATER
- EXISTING CONTOUR

PROFILE: SEWER 6



SCALE
HORIZONTAL: 1"=30'
VERTICAL: 1"=10'

PROFILE: SEWER 5



ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. WEIR
11-8-19
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

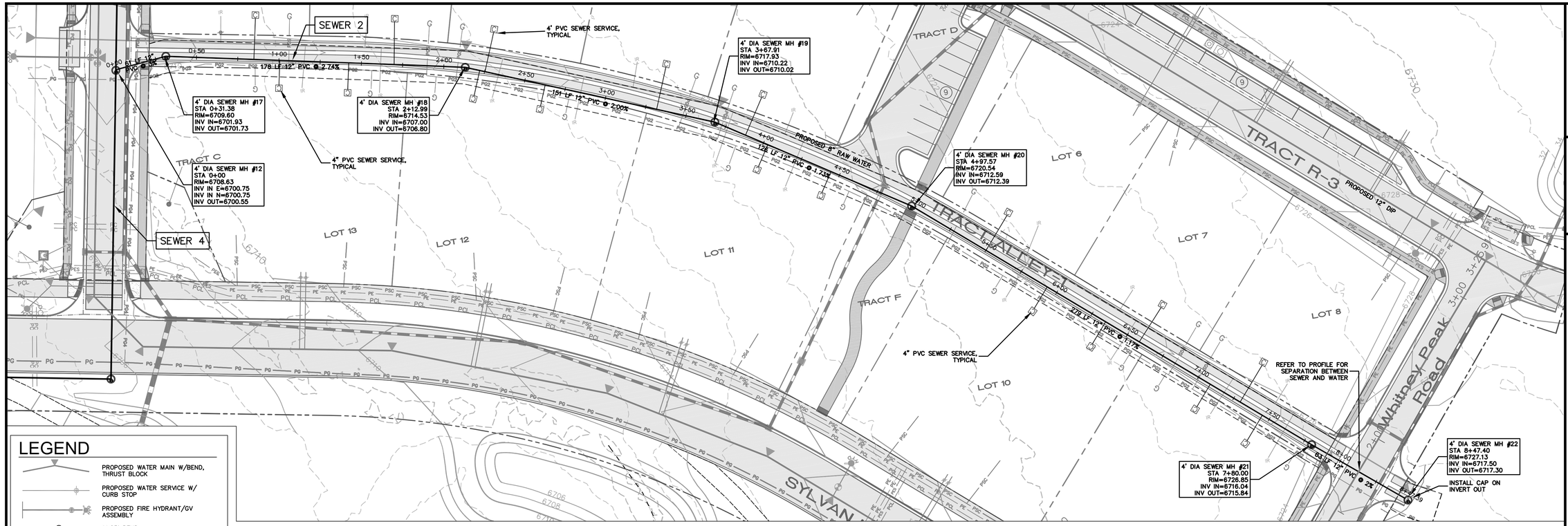
SEWER PLAN AND PROFILES

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

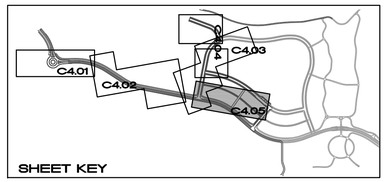
SHEET
C4.04

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Utility-Sewer-Ph1.dwg, 2/19/2019 3:36:42 PM, foth



LEGEND

- PROPOSED WATER MAIN W/BEND, THRUST BLOCK
- PROPOSED WATER SERVICE W/ CURB STOP
- PROPOSED FIRE HYDRANT/GV ASSEMBLY
- (A) 11.25° BEND
- (B) 22.5° BEND
- (C) 45° BEND
- PROPOSED SANITARY SEWER MAIN W/ MANHOLE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED STORM SEWER & INLETS
- PROPOSED RAW WATER, VARIOUS SIZES
- PROPOSED RAW WATER SERVICE
- PROPOSED CONTOUR
- PROPOSED ROADWAY
- PROPOSED EASEMENT
- EXISTING SEWER
- EXISTING WATER
- EXISTING RAW WATER
- EXISTING CONTOUR

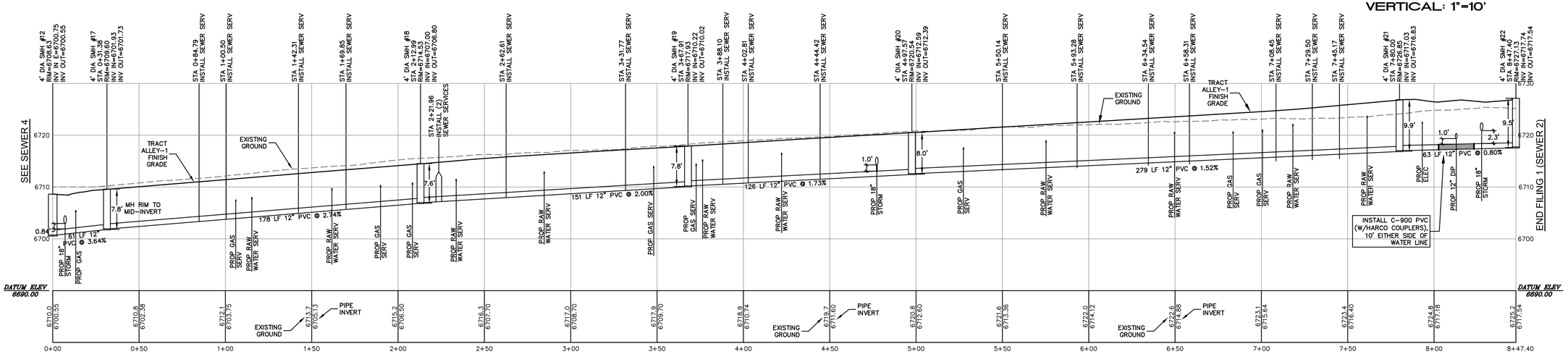


GRAPHIC SCALE
0 15 30 60
SCALE: 1"= 30'

IN ACCORDANCE WITH TOE PUBLIC WORKS MANUAL (SECTION 1.08), INSTALL C-900 WITH HARCO COUPLERS 10' EACH SIDE OF WATER LINE AT CROSSINGS

PROFILE: SEWER 2

SCALE
HORIZONTAL: 1"=30'
VERTICAL: 1"=10'



ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. WEIR
11-8-18
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

SEWER PLAN AND PROFILES

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

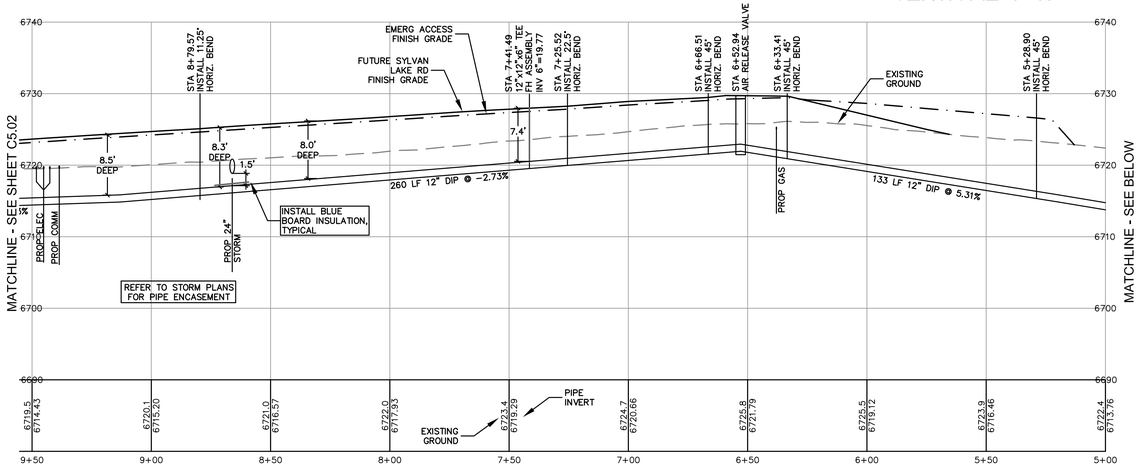
DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET
C4.05

O:\Eagle\Haymeadow- 53480.5 - 2018\dwg\Master\Utility-Sewer-Ph1.dwg, 2/19/2019 3:38:09 PM, fotih

PROFILE: WATER-MAIN SITE (12") CONT.

SCALE
HORIZONTAL: 1"=30'
VERTICAL: 1"=10'



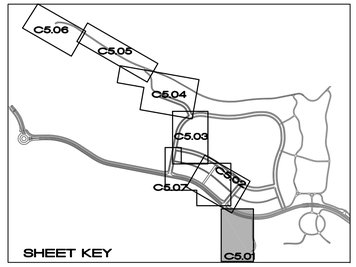
REFER TO SHEETS C5.02-5.03 FOR CONTINUATION OF WATER-MAIN SITE

GRAPHIC SCALE
0 15 30 60
SCALE: 1"= 30'

FOR TOE SPECIFICATIONS ON INSULATION, REFER TO DETAIL B, SHEET C9.08

FOR SANITARY SEWER PIPE TYPE WHERE SEWER AND WATER LINES CROSS, REFER TO SANITARY SEWER SHEETS AND TOE PW MANUAL FOR SPECIFICATIONS

FOR STORM PIPE ENCASEMENT WHERE STORM AND WATER LINES CROSS, REFER TO STORM DRAINAGE SHEETS AND TOE PW MANUAL FOR SPECIFICATIONS

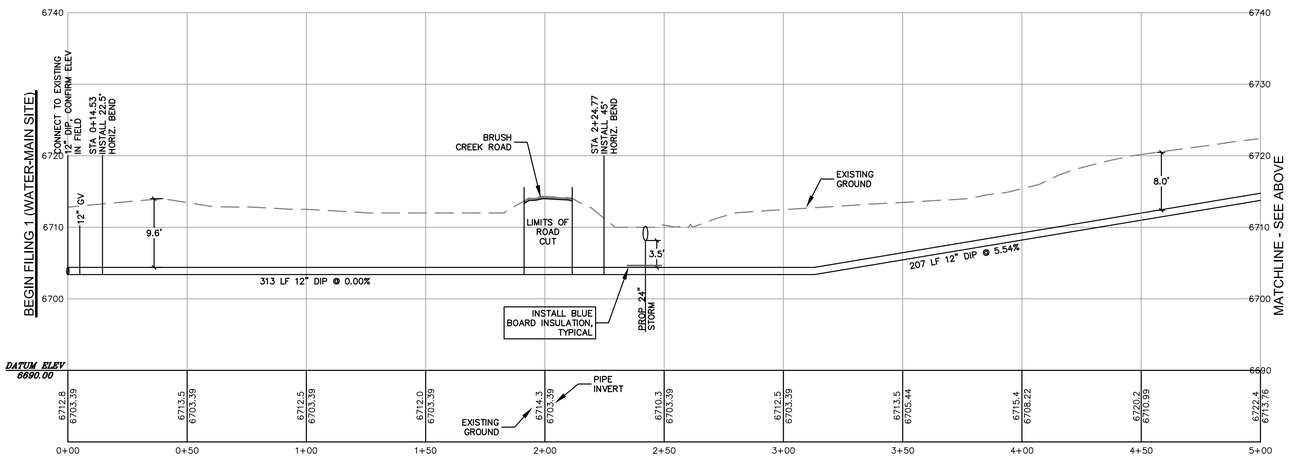


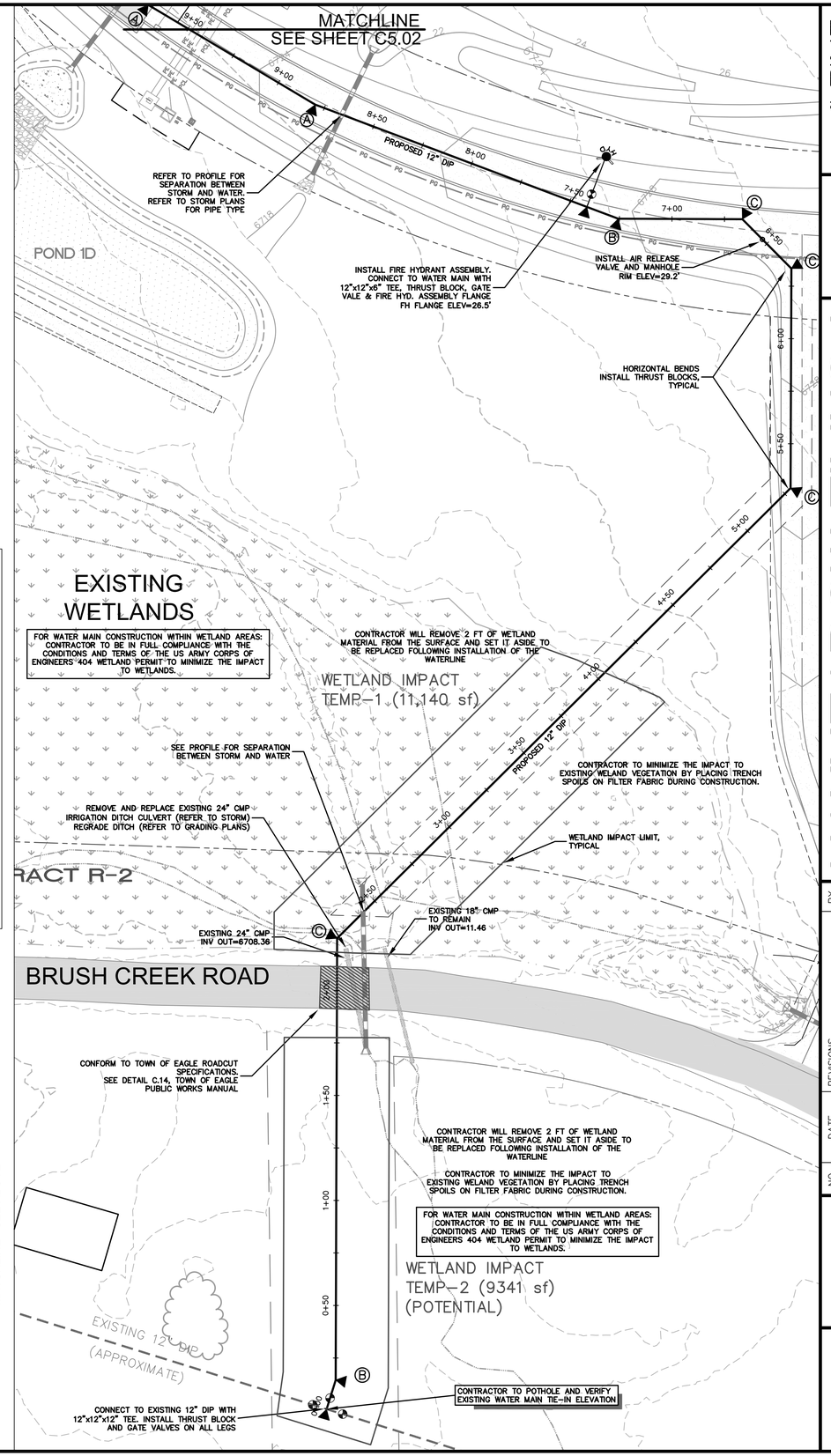
LEGEND

- PROPOSED WATER MAIN W/BEND, THRUST BLOCK
- PROPOSED WATER SERVICE W/ CURB STOP
- PROPOSED FIRE HYDRANT/GV ASSEMBLY
- Ⓐ 11.25° BEND
- Ⓑ 22.5° BEND
- Ⓒ 45° BEND
- PROPOSED SANITARY SEWER MAIN W/ MANHOLE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED STORM SEWER & INLETS
- PROPOSED RAW WATER, VARIOUS SIZES
- PROPOSED RAW WATER SERVICE
- 6678 PROPOSED CONTOUR
- PROPOSED ROADWAY
- PROPOSED EASEMENT
- EXISTING SEWER
- EXISTING WATER
- EXISTING RAW WATER
- EXISTING CONTOUR

PROFILE: WATER-MAIN SITE (12") START

SCALE
HORIZONTAL: 1"=30'
VERTICAL: 1"=10'





ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. RIES
11-8-19
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

WATER PLAN AND PROFILES

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C5.01

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Utility-Water-Ph1.dwg, 2/19/2019 3:47:55 PM, foth

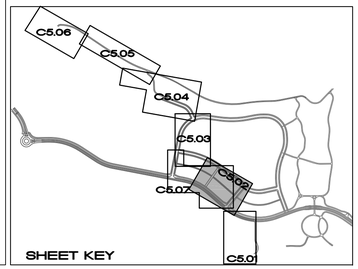
LEGEND

- PROPOSED WATER MAIN W/BEND, THRUST BLOCK
- PROPOSED WATER SERVICE W/ CURB STOP
- PROPOSED FIRE HYDRANT/GV ASSEMBLY
- (A) 11.25° BEND
- (B) 22.5° BEND
- (C) 45° BEND
- PROPOSED SANITARY SEWER MAIN W/ MANHOLE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED STORM SEWER & INLETS
- PROPOSED RAW WATER, VARIOUS SIZES
- PROPOSED RAW WATER SERVICE
- PROPOSED CONTOUR
- PROPOSED ROADWAY
- PROPOSED EASEMENT
- EXISTING SEWER
- EXISTING WATER
- EXISTING RAW WATER
- EXISTING CONTOUR

GRAPHIC SCALE

0 15 30 60

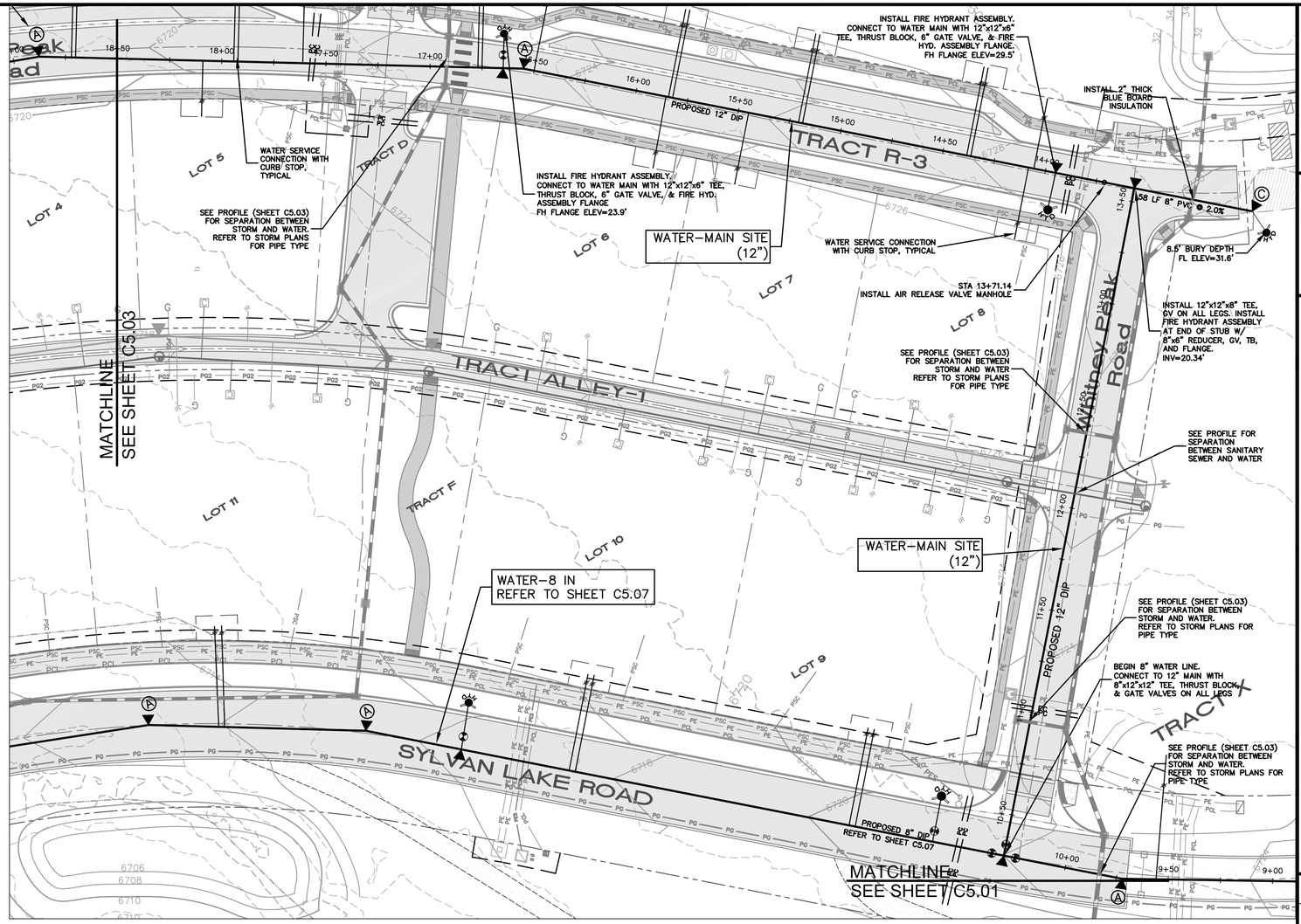
SCALE: 1"= 30'



FOR SANITARY SEWER PIPE TYPE WHERE SEWER AND WATER LINES CROSS, REFER TO SANITARY SEWER SHEETS AND TOE PW MANUAL FOR SPECIFICATIONS

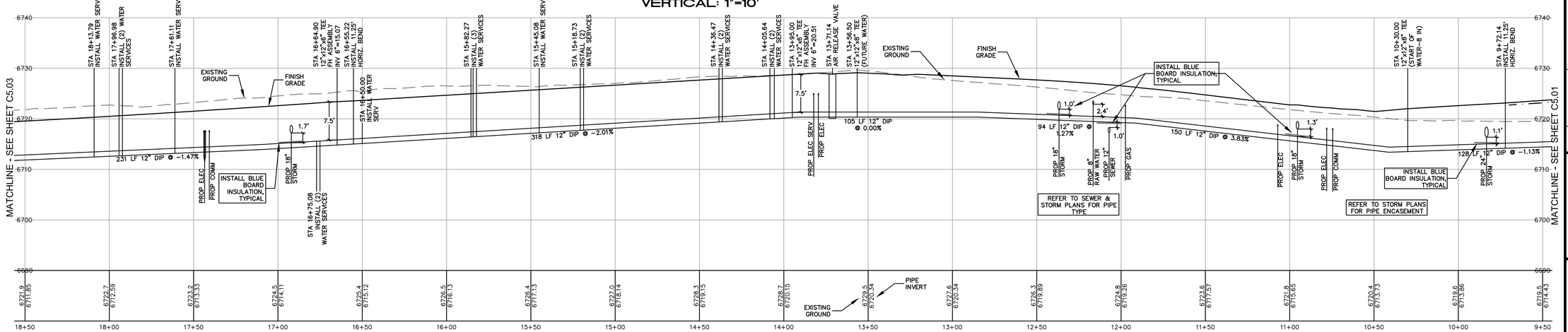
FOR STORM PIPE ENCASEMENT WHERE STORM AND WATER LINES CROSS, REFER TO STORM DRAINAGE SHEETS AND TOE PW MANUAL FOR SPECIFICATIONS

FOR TOE SPECIFICATIONS ON INSULATION, REFER TO DETAIL B, SHEET C9.08



PROFILE: WATER-MAIN SITE (12") CONT.

SCALE
HORIZONTAL: 1"=30'
VERTICAL: 1"=10'



ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. WEIR
11-8-16
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

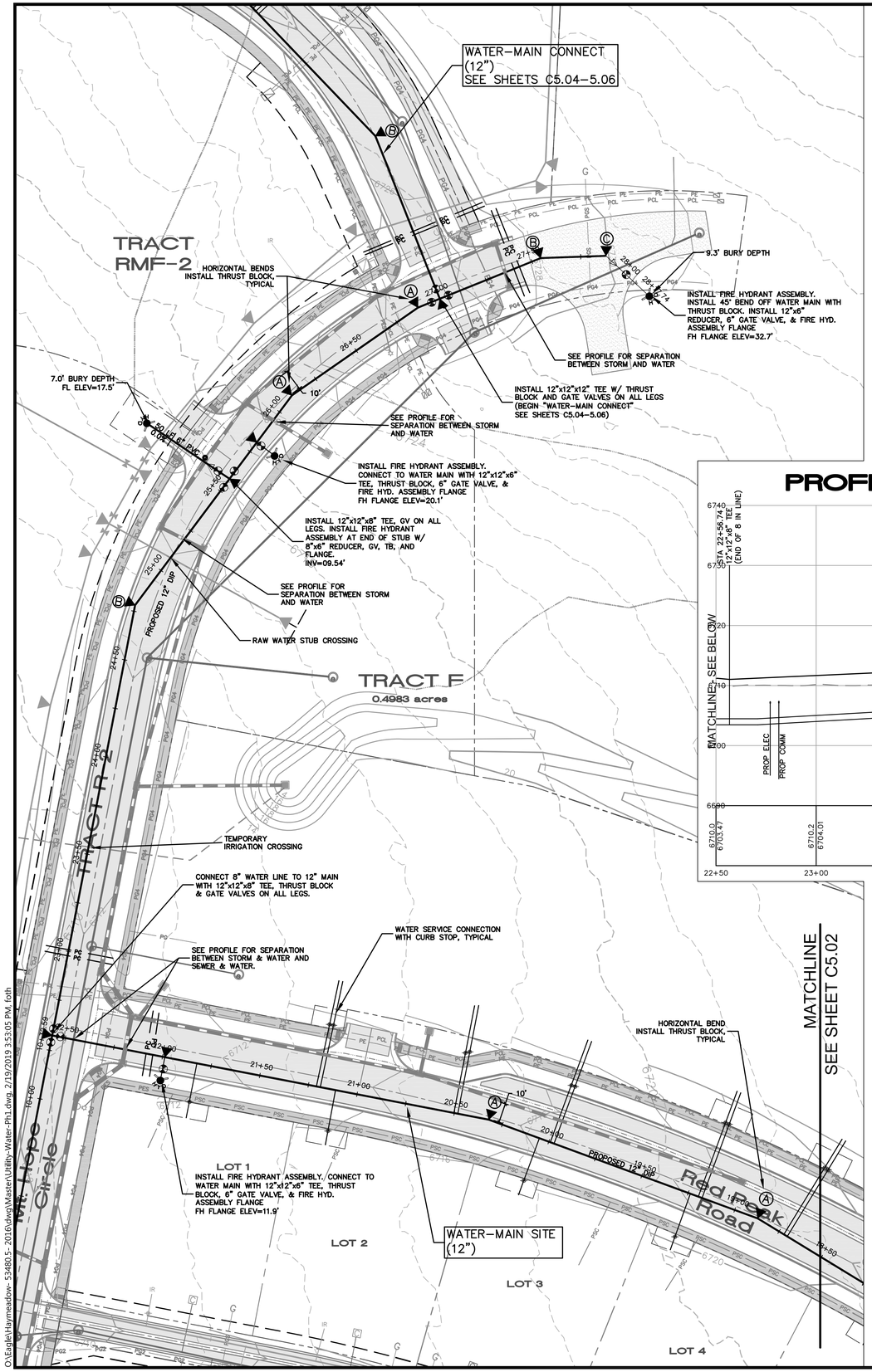
WATER PLAN AND PROFILES

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C5.02

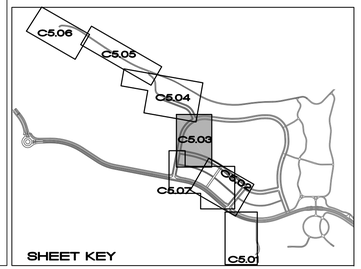
O:\Eagle\Haymeadow- 53480.5 - 2016\dwg\Master\Utility-Water-Ph1.dwg, 2/19/2019 3:48:51 PM, foth



LEGEND

- PROPOSED WATER MAIN W/BEND, THRUST BLOCK
- PROPOSED WATER SERVICE W/ CURB STOP
- PROPOSED FIRE HYDRANT/GV ASSEMBLY
- (A) 11.25° BEND
- (B) 22.5° BEND
- (C) 45° BEND
- PROPOSED SANITARY SEWER MAIN W/ MANHOLE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED STORM SEWER & INLETS
- PROPOSED RAW WATER, VARIOUS SIZES
- PROPOSED RAW WATER SERVICE
- PROPOSED CONTOUR
- PROPOSED ROADWAY
- PROPOSED EASEMENT
- EXISTING SEWER
- EXISTING WATER
- EXISTING RAW WATER
- EXISTING CONTOUR

GRAPHIC SCALE
0 15 30 60
SCALE: 1"= 30'

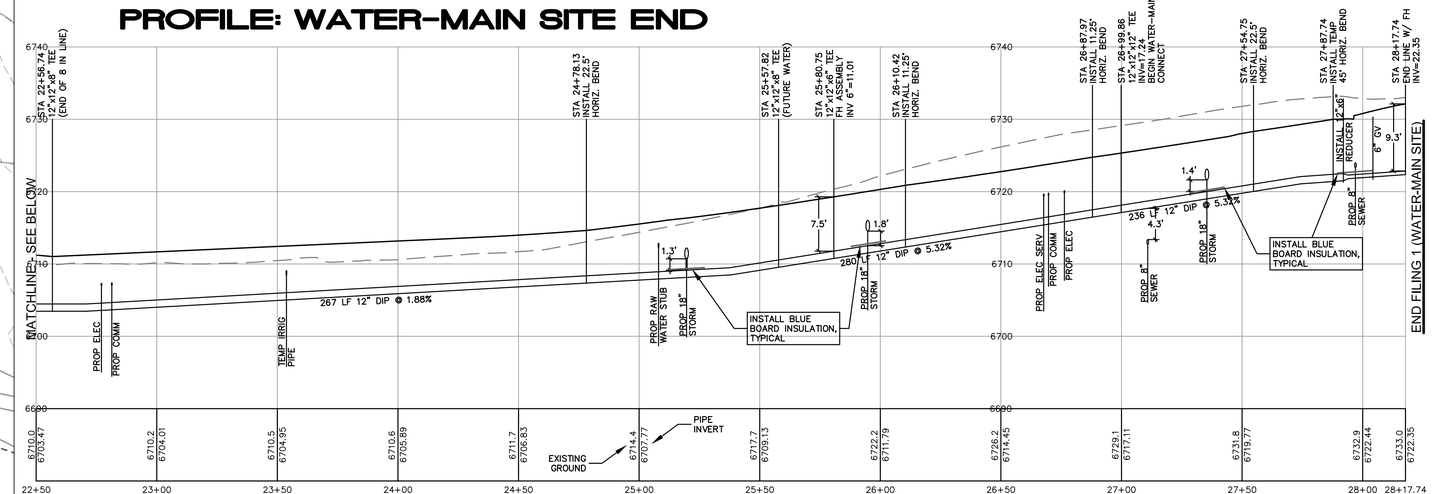


FOR SANITARY SEWER PIPE TYPE WHERE SEWER AND WATER LINES CROSS, REFER TO SANITARY SEWER SHEETS AND TOE PW MANUAL FOR SPECIFICATIONS

FOR STORM PIPE ENCASEMENT WHERE STORM AND WATER LINES CROSS, REFER TO STORM DRAINAGE SHEETS AND TOE PW MANUAL FOR SPECIFICATIONS

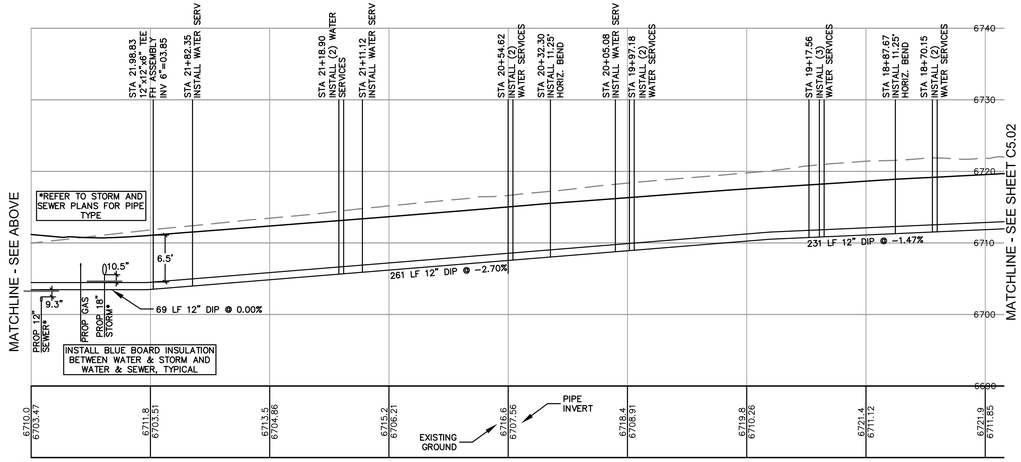
FOR TOE SPECIFICATIONS ON INSULATION, REFER TO DETAIL B, SHEET C9.08

PROFILE: WATER-MAIN SITE END



SCALE
HORIZONTAL: 1"=30'
VERTICAL: 1"=10'

PROFILE: WATER-MAIN SITE CONT.



ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. HAYMEADOW
11-8-18
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

WATER PLAN AND PROFILES

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

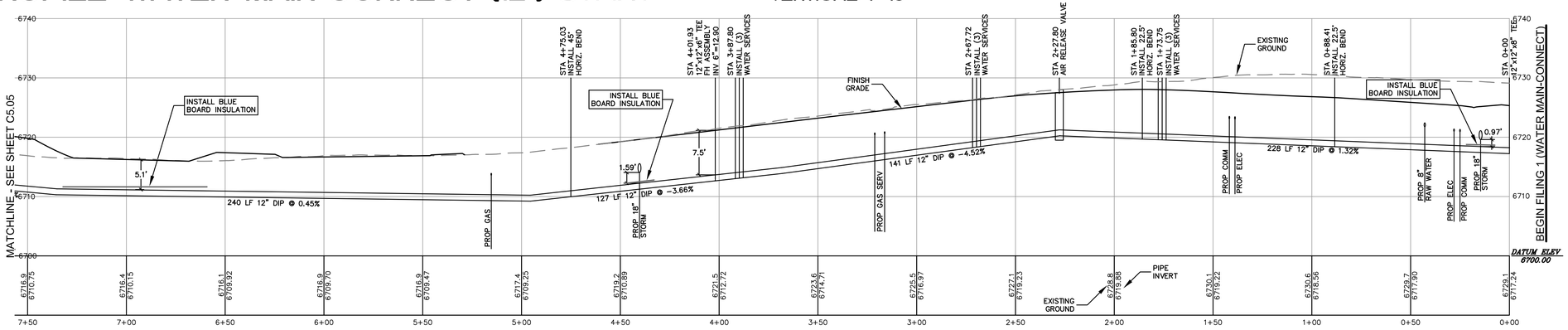
DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C5.03

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Utility-Water-Ph1.dwg, 2/19/2019 3:53:05 PM, foth

PROFILE: WATER-MAIN CONNECT (12") START

SCALE
HORIZONTAL: 1"=30'
VERTICAL: 1"=10'



MATCHLINE
SEE SHEET C5.05

TRACT E

TRACT BOUNDARY - FILING 1

TRACT R-2

Snowy Peak Drive

TRACT RMF-3

TRACT RMF-2

20' WATER EASEMENT

PROPOSED 12" DIP

PROPOSED 8" PVC SEWER

SEE PROFILE FOR SEPARATION BETWEEN STORM AND WATER

WATER SERVICE CONNECTIONS WITH CURB STOPS, TYPICAL

INSTALL FIRE HYDRANT ASSEMBLY. CONNECT TO WATER MAIN WITH 12"x12"x6" TEE, 6" GATE VALVE, THRUST BLOCK, & FIRE HYD. ASSEMBLY FLANGE FH FLANGE ELEV=21.7'

INSTALL AIR RELEASE VALVE AND VAULT RIM ELEV=27.5

WATER-MAIN CONNECT (12")

SEE PROFILE FOR SEPARATION BETWEEN STORM AND WATER

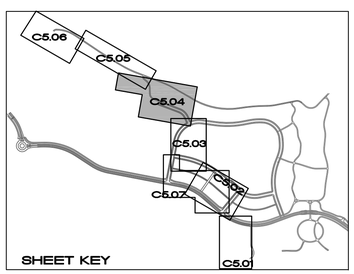
BEGIN ALIGNMENT WATER-MAIN CONNECT (12") INSTALL 12"x12"x8" TEE WITH THRUST BLOCK & GATE VALVES ON ALL LEGS

REFER TO SHEETS C5.05-5.06 FOR CONTINUATION OF WATER-MAIN CONNECT

FOR SANITARY SEWER PIPE TYPE WHERE SEWER AND WATER LINES CROSS, REFER TO SANITARY SEWER SHEETS AND TOE PW MANUAL FOR SPECIFICATIONS

FOR TOE SPECIFICATIONS ON INSULATION, REFER TO DETAIL B, SHEET C9.08

FOR STORM PIPE ENCASEMENT WHERE STORM AND WATER LINES CROSS, REFER TO STORM DRAINAGE SHEETS AND TOE PW MANUAL FOR SPECIFICATIONS



GRAPHIC SCALE
0 15 30 60
SCALE: 1"= 30'

LEGEND

- PROPOSED WATER MAIN W/BEND, THRUST BLOCK
- PROPOSED WATER SERVICE W/ CURB STOP
- PROPOSED FIRE HYDRANT/GV ASSEMBLY
- Ⓐ 11.25° BEND
- Ⓑ 22.5° BEND
- Ⓒ 45° BEND
- PROPOSED SANITARY SEWER MAIN W/ MANHOLE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED STORM SEWER & INLETS
- PROPOSED RAW WATER, VARIOUS SIZES
- PROPOSED RAW WATER SERVICE
- 6678 PROPOSED CONTOUR
- PROPOSED ROADWAY
- PROPOSED EASEMENT
- EXISTING SEWER
- EXISTING WATER
- EXISTING RAW WATER
- EXISTING CONTOUR

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. LEE
11-8-18
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

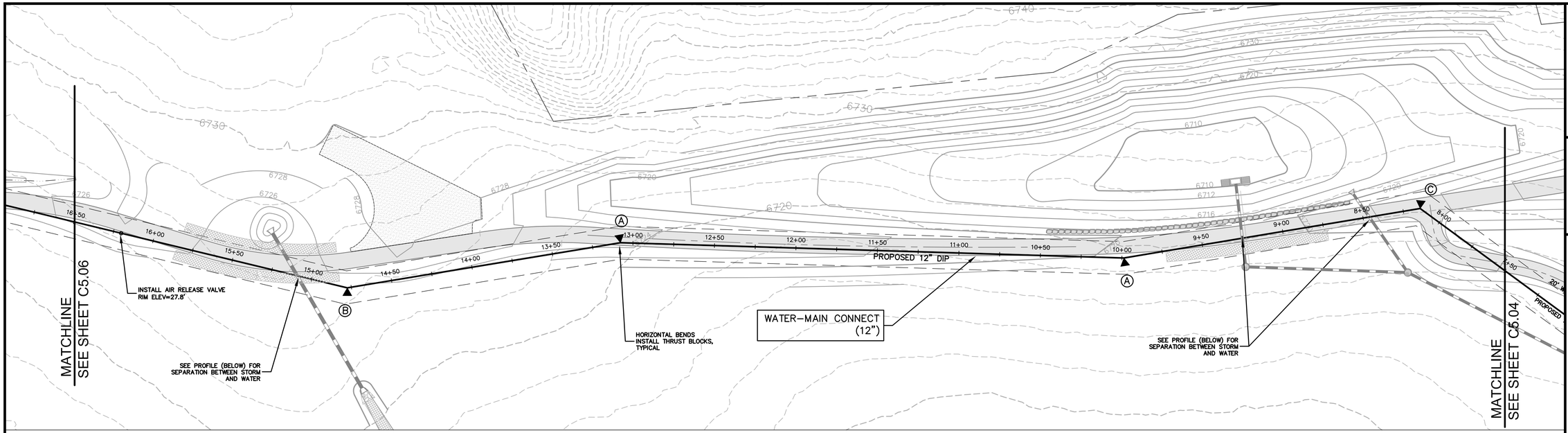
WATER PLAN AND PROFILES

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C5.04

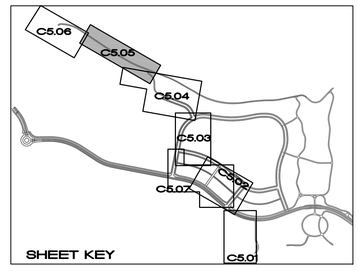
O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Utility-Water-Ph1.dwg, 2/19/2019 3:54:35 PM, foth



GRAPHIC SCALE

0 15 30 60

SCALE: 1"= 30'



FOR STORM PIPE ENCASEMENT WHERE STORM AND WATER LINES CROSS, REFER TO STORM DRAINAGE SHEETS AND TOE PW MANUAL FOR SPECIFICATIONS

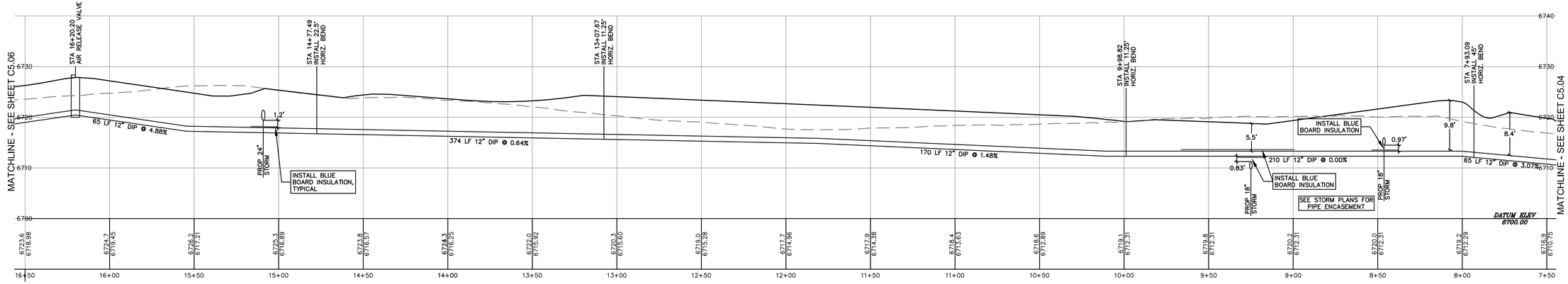
FOR TOE SPECIFICATIONS ON INSULATION, REFER TO DETAIL B, SHEET C9.08

LEGEND

- PROPOSED WATER MAIN W/BEND, THRUST BLOCK
- PROPOSED WATER SERVICE W/ CURB STOP
- PROPOSED FIRE HYDRANT/GV ASSEMBLY
- Ⓐ 11.25° BEND
- Ⓑ 22.5° BEND
- Ⓒ 45° BEND
- PROPOSED SANITARY SEWER MAIN W/ MANHOLE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED STORM SEWER & INLETS
- PROPOSED RAW WATER, VARIOUS SIZES
- PROPOSED RAW WATER SERVICE
- 6678 PROPOSED CONTOUR
- PROPOSED ROADWAY
- PROPOSED EASEMENT
- EXISTING SEWER
- EXISTING WATER
- EXISTING RAW WATER
- EXISTING CONTOUR

PROFILE: WATER-MAIN CONNECT CONT.

SCALE
HORIZONTAL: 1"=30'
VERTICAL: 1"=10'



ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. BAIN
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

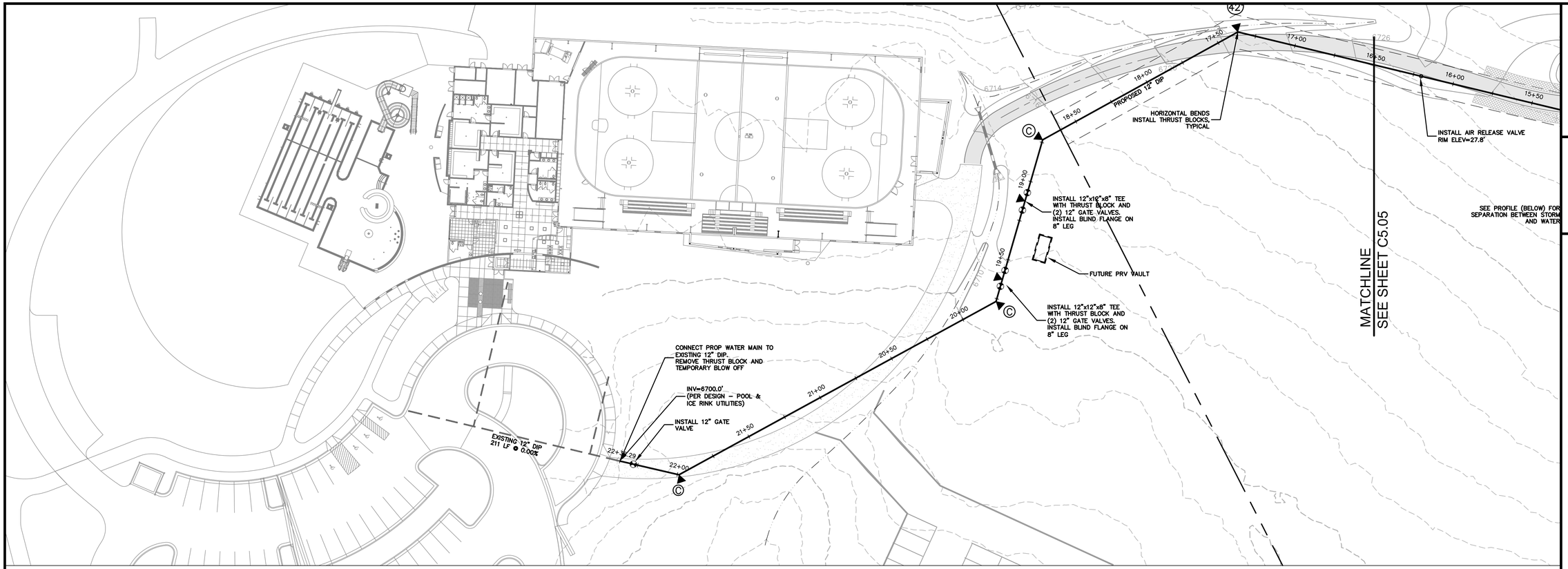
WATER PLAN AND PROFILES

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED	MW, RL		
DRAWN	RF		
CHECKED	MCW		
JOB NO.	53480.5		
DATE	02/20/2019		

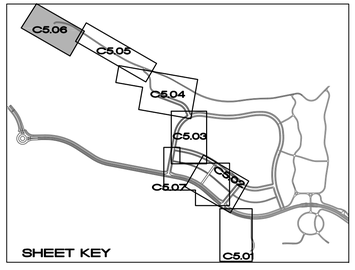
SHEET
C5.05

O:\Eagle\Haymeadow- 53480.5 - 2016\dwg\Master\Utility-Water-Ph1.dwg, 2/21/2019 10:12:23 AM, foth



LEGEND

- PROPOSED WATER MAIN W/BEND, THRUST BLOCK
- PROPOSED WATER SERVICE W/ CURB STOP
- PROPOSED FIRE HYDRANT/GV ASSEMBLY
- (A) 11.25° BEND
- (B) 22.5° BEND
- (C) 45° BEND
- PROPOSED SANITARY SEWER MAIN W/ MANHOLE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED STORM SEWER & INLETS
- PROPOSED RAW WATER, VARIOUS SIZES
- PROPOSED RAW WATER SERVICE
- 6678 PROPOSED CONTOUR
- PROPOSED ROADWAY
- PROPOSED EASEMENT
- EXISTING SEWER
- EXISTING WATER
- EXISTING RAW WATER
- EXISTING CONTOUR



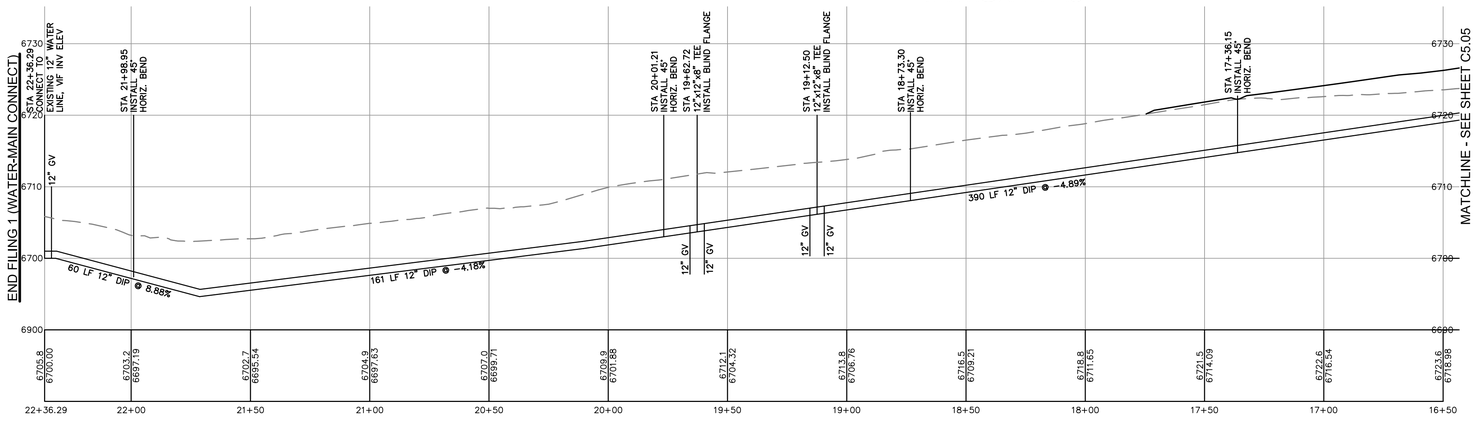
GRAPHIC SCALE
0 15 30 60
SCALE: 1"= 30'

FOR STORM PIPE ENCASEMENT WHERE STORM AND WATER LINES CROSS, REFER TO STORM DRAINAGE SHEETS AND TOE PW MANUAL FOR SPECIFICATIONS

FOR TOE SPECIFICATIONS ON INSULATION, REFER TO DETAIL B, SHEET C9.08

PROFILE: WATER-MAIN CONNECT END

SCALE
HORIZONTAL: 1"=30'
VERTICAL: 1"=10'



ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. WILSON
11-8-19
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

WATER PLAN AND PROFILES

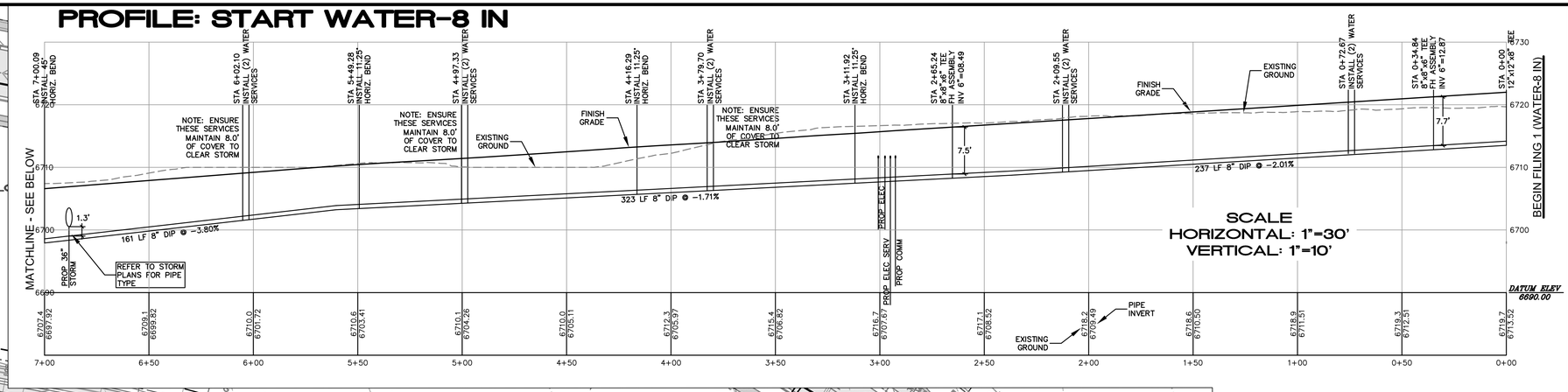
NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C5.06

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Utility-Water- Ph1.dwg, 2/21/2019 10:10:01 AM, toth

PROFILE: START WATER-8 IN



SCALE
HORIZONTAL: 1"=30'
VERTICAL: 1"=10'

PROFILE: WATER-8 IN CONT.

SCALE
HORIZONTAL: 1"=30'
VERTICAL: 1"=10'

FOR SANITARY SEWER PIPE TYPE WHERE SEWER AND WATER LINES CROSS, REFER TO SANITARY SEWER SHEETS AND TOE PW MANUAL FOR SPECIFICATIONS

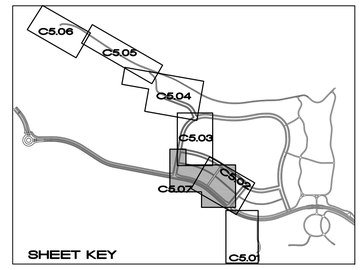
FOR STORM PIPE ENCASEMENT WHERE STORM AND WATER LINES CROSS, REFER TO STORM DRAINAGE SHEETS AND TOE PW MANUAL FOR SPECIFICATIONS

FOR TOE SPECIFICATIONS ON INSULATION, REFER TO DETAIL B, SHEET C9.08

GRAPHIC SCALE
0 15 30 60
SCALE: 1"= 30'

LEGEND

- PROPOSED WATER MAIN W/BEND, THRUST BLOCK
- PROPOSED WATER SERVICE W/ CURB STOP
- PROPOSED FIRE HYDRANT/GV ASSEMBLY
- Ⓐ 11.25° BEND
- Ⓑ 22.5° BEND
- Ⓒ 45° BEND
- PROPOSED SANITARY SEWER MAIN W/ MANHOLE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED STORM SEWER & INLETS
- PROPOSED RAW WATER, VARIOUS SIZES
- PROPOSED RAW WATER SERVICE
- 6678 PROPOSED CONTOUR
- PROPOSED ROADWAY
- PROPOSED EASEMENT
- EXISTING SEWER
- EXISTING WATER
- EXISTING RAW WATER
- EXISTING CONTOUR



ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. RIL
11-8-19
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

WATER PLAN AND PROFILES

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET
C5.07

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Utility-Water-Ph1.dwg, 2/19/2019 4:01:35 PM, foth

TRACT E
TRACT R-2
Snowy Peak Drive
TRACT RMF-3
TRACT RMF-2
TRACT RMF-1
TRACT X
TRACT OS-2
2" RAW WATER SERVICE TAPS AVAILABLE FOR TEMPORARY IRRIGATION
FUTURE LOTS
REFER TO SEDIMENT CONTROL PLAN C8.02 FOR INLET PROTECTION
TRACT F
CONSTRUCT TEMPORARY IRRIGATION FLOW CUTOFF DITCH/BERM WITH 4' WIDE FLAT BOTTOM AND TOP AND 3:1 SIDE SLOPES. COMPACT BERM TO 95% AASHTO T99. MOISTURE CONTENT SHALL BE WITHIN 2% OF OPTIMUM.
TEMPORARY PIPE
CONSTRUCT EARTHEN BERM AROUND INLET, COMPACT TO 95% AASHTO T99. MOISTURE CONENT SHALL BE WITHIN 2% OF OPTIMUM.
TRACT RMF-4
TEMPORARY CUTOFF DITCH
AFTER CONSTRUCTION OF DITCH/BERM, REPLACE 3" OF TOPSOIL, SEED AND MULCH PER PROJECT SPECIFICATIONS.
Mt. Hope Circle
Red Peak Road
LOT 1
LOT 2
LOT 3
LOT 4
LOT 5
LOT 6
LOT 7
LOT 8
LOT 9
LOT 10
LOT 11
LOT 12
TRACT A
TRACT B
TRACT C
TRACT D
TRACT P
TRACT R-3
TRACT R-1
TRACT A-2
Whitney Peak Road
SYLVAN LAKE ROAD
CONSTRUCT DITCH WITH 3:1 SIDE SLOPES
TEMPORARY HAUL ROAD
INSTALL 75' LONG 18" DIA HDPE TEMPORARY CULVERT
CONSTRUCT TEMPORARY IRRIGATION FLOW CUTOFF DITCH/BERM WITH 4' WIDE FLAT BOTTOM AND TOP AND 3:1 SIDE SLOPES. COMPACT BERM TO 95% AASHTO T99. MOISTURE CONTENT SHALL BE WITHIN 2% OF OPTIMUM. REPLACE 3" OF TOPSOIL, SEED AND MULCH PER PROJECT SPECIFICATIONS.
LOCKING BEAR RESISTANT TRASH FOR FOOD WASTE
TEMPORARY TOILETS
DUMPSTER
PARKING
TRAILERS
STOCKPILE
STOCKPILE
MATERIAL LAY DOWN
WETLAND IMPACT
TEMP-1 (11,140 sf)

GRAPHIC SCALE
0 40 80 160
SCALE: 1"= 80'

RAW WATER SERVICE LINES TO BE 1" DIAMETER UNLESS NOTED OTHERWISE ON THE PLANS

LEGEND

- PROPOSED WATER MAIN W/BEND, THRUST BLOCK
- PROPOSED WATER SERVICE W/ CURB STOP
- PROPOSED FIRE HYDRANT/GV ASSEMBLY
- (A) 11.25° BEND
- (B) 22.5° BEND
- (C) 45° BEND
- PROPOSED SANITARY SEWER MAIN W/ MANHOLE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED STORM SEWER & INLETS
- PROPOSED RAW WATER, VARIOUS SIZES
- IR PROPOSED RAW WATER SERVICE
- 6678 PROPOSED CONTOUR
- PROPOSED ROADWAY
- PROPOSED EASEMENT
- EXISTING SEWER
- EXISTING WATER
- EXISTING RAW WATER
- EXISTING CONTOUR

SHEET KEY
C6.01
C6.02
C6.05
C6.03
C6.04
C6.00

O:\Eagle\Haymeadow- 53480.5 - 2016\dwg\Master\Non Potable-Ph1.dwg, 2/20/2019 2:54:12 PM, fotih

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. WILLIAMS
39865
PROFESSIONAL ENGINEER

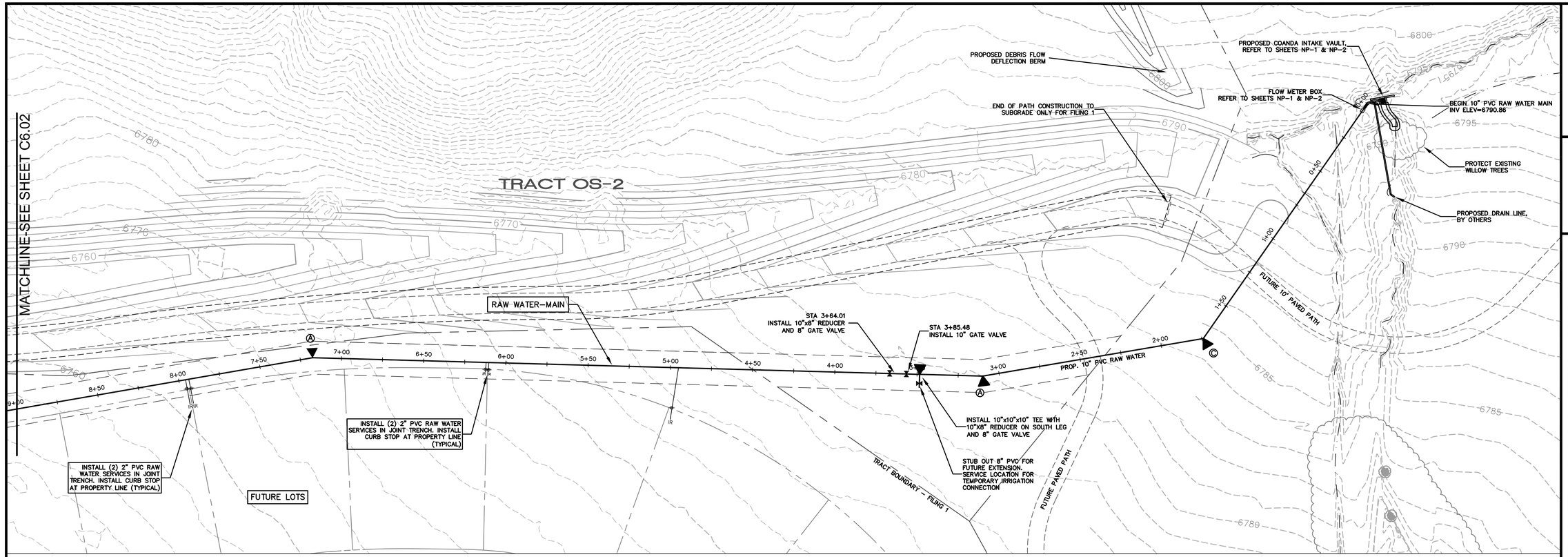
HAYMEADOW FILING 1

TEMPORARY IRRIGATION FLOW CUTOFF DITCH & BERM

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

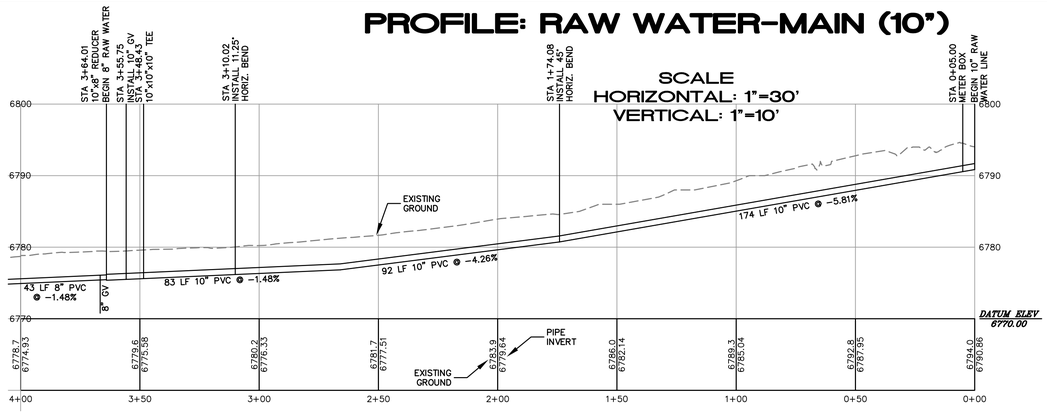
DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C6.00

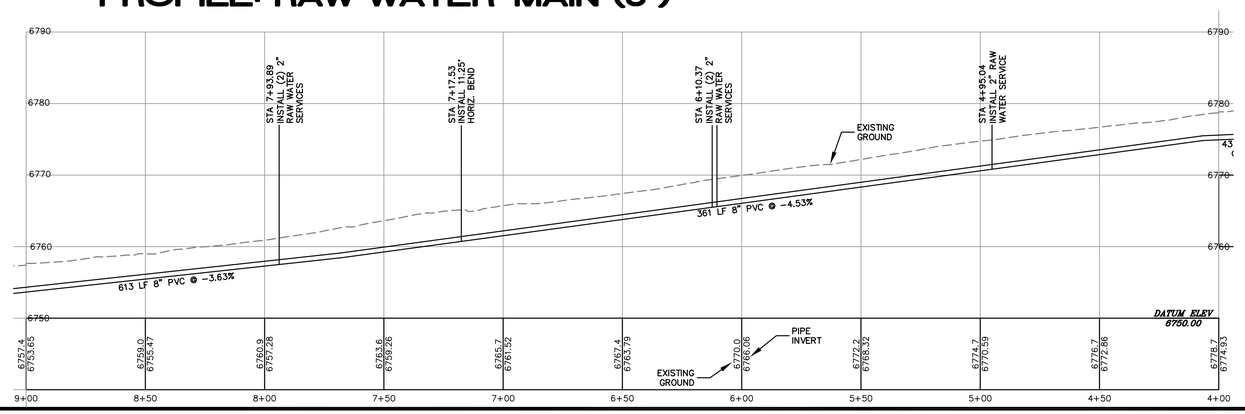


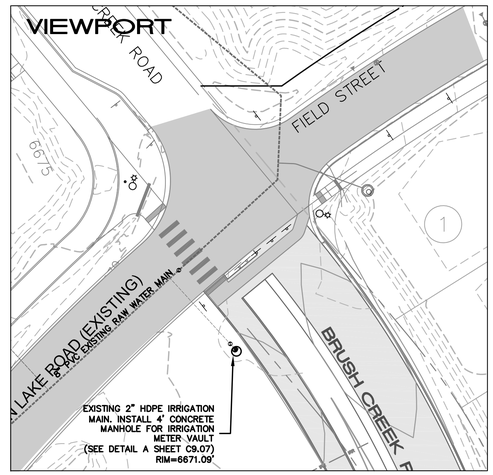
PROFILE: RAW WATER-MAIN (10")

SCALE
HORIZONTAL: 1"=30'
VERTICAL: 1"=10'



PROFILE: RAW WATER-MAIN (8")





NON-POTABLE WATER SYSTEM TO BE CONSTRUCTED TO TOE WATER STANDARDS, REFER TO PW MANUAL

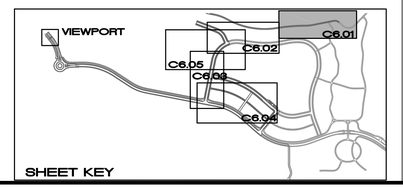
REFER TO SHEET NP-2 FOR SGM, INC. NON-POTABLE IRRIGATION SYSTEM NOTES

RAW WATER SERVICE LINES TO BE 1" DIAMETER UNLESS NOTED OTHERWISE ON THE PLANS

GRAPHIC SCALE
0 15 30 60
SCALE: 1"= 30'

LEGEND

- PROPOSED WATER MAIN W/BEND, THRUST BLOCK
- PROPOSED WATER SERVICE W/ CURB STOP
- PROPOSED FIRE HYDRANT/GV ASSEMBLY
- Ⓐ 11.25° BEND
- Ⓑ 22.5° BEND
- Ⓒ 45° BEND
- PROPOSED SANITARY SEWER MAIN W/ MANHOLE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED STORM SEWER & INLETS
- PROPOSED RAW WATER, VARIOUS SIZES
- IR PROPOSED RAW WATER SERVICE
- 6678 PROPOSED CONTOUR
- PROPOSED ROADWAY
- PROPOSED EASEMENT
- EXISTING SEWER
- EXISTING WATER
- EXISTING RAW WATER
- EXISTING CONTOUR



ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. LEE
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

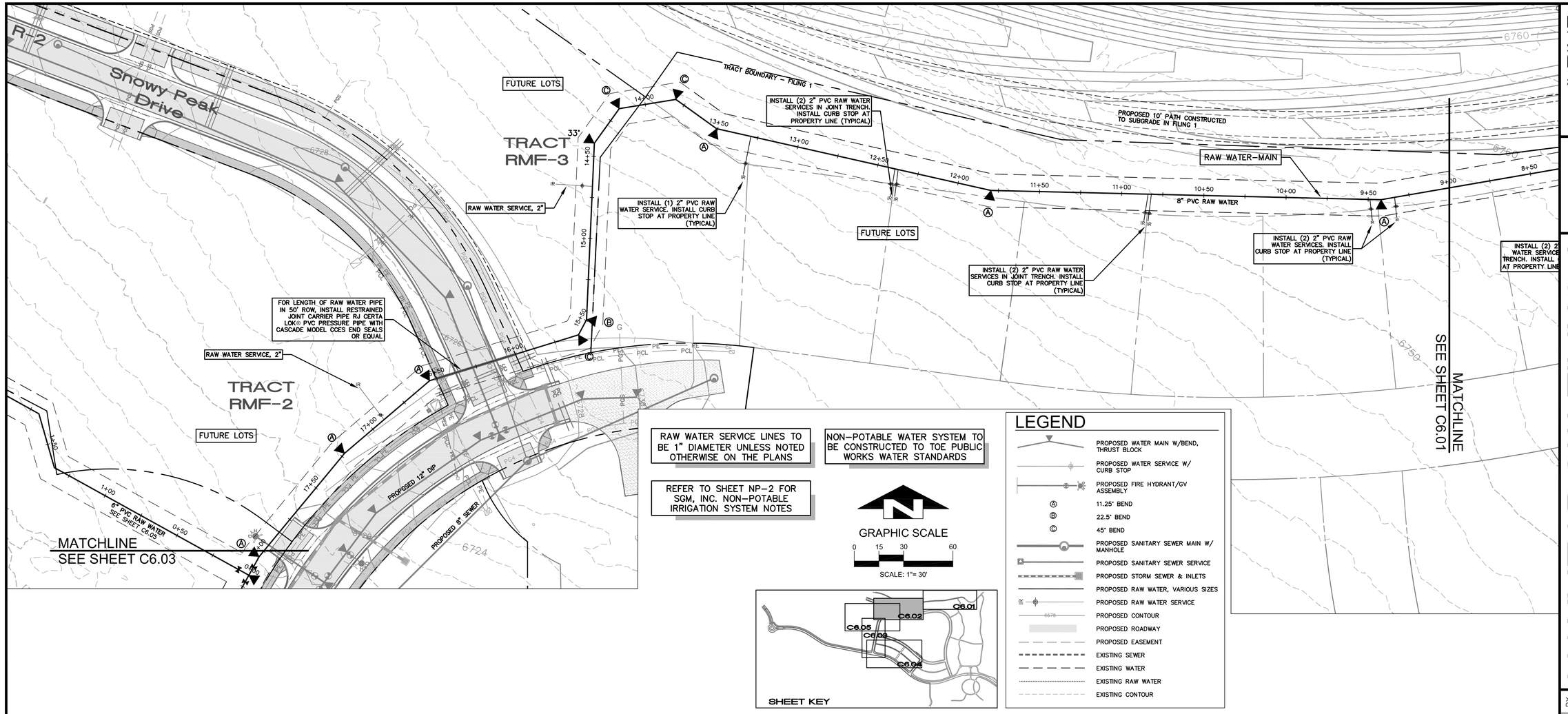
NON-POTABLE PLAN & PROFILE

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET
C6.01

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Non Potable-Ph1.dwg, 2/20/2019 4:51:44 PM, toth



RAW WATER SERVICE LINES TO BE 1" DIAMETER UNLESS NOTED OTHERWISE ON THE PLANS

NON-POTABLE WATER SYSTEM TO BE CONSTRUCTED TO TOE PUBLIC WORKS WATER STANDARDS

REFER TO SHEET NP-2 FOR SGM, INC. NON-POTABLE IRRIGATION SYSTEM NOTES

GRAPHIC SCALE

0 15 30 60

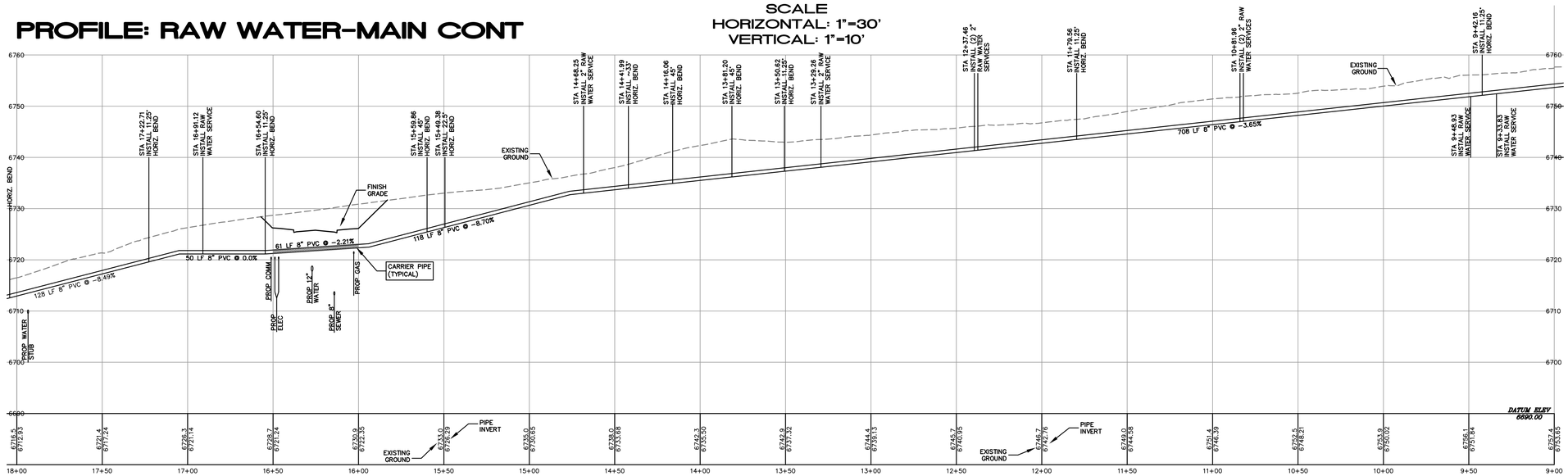
SCALE: 1"= 30'

LEGEND

- PROPOSED WATER MAIN W/BEND, THRUST BLOCK
- PROPOSED WATER SERVICE W/ CURB STOP
- PROPOSED FIRE HYDRANT/GV ASSEMBLY
- Ⓐ 11.25° BEND
- Ⓑ 22.5° BEND
- Ⓒ 45° BEND
- PROPOSED SANITARY SEWER MAIN W/ MANHOLE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED STORM SEWER & INLETS
- PROPOSED RAW WATER, VARIOUS SIZES
- IR PROPOSED RAW WATER SERVICE
- 6678 PROPOSED CONTOUR
- PROPOSED ROADWAY
- PROPOSED EASEMENT
- EXISTING SEWER
- EXISTING WATER
- EXISTING RAW WATER
- EXISTING CONTOUR

PROFILE: RAW WATER-MAIN CONT

SCALE
HORIZONTAL: 1"=30'
VERTICAL: 1"=10'



HAYMEADOW FILING 1

NON-POTABLE PLAN & PROFILE

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

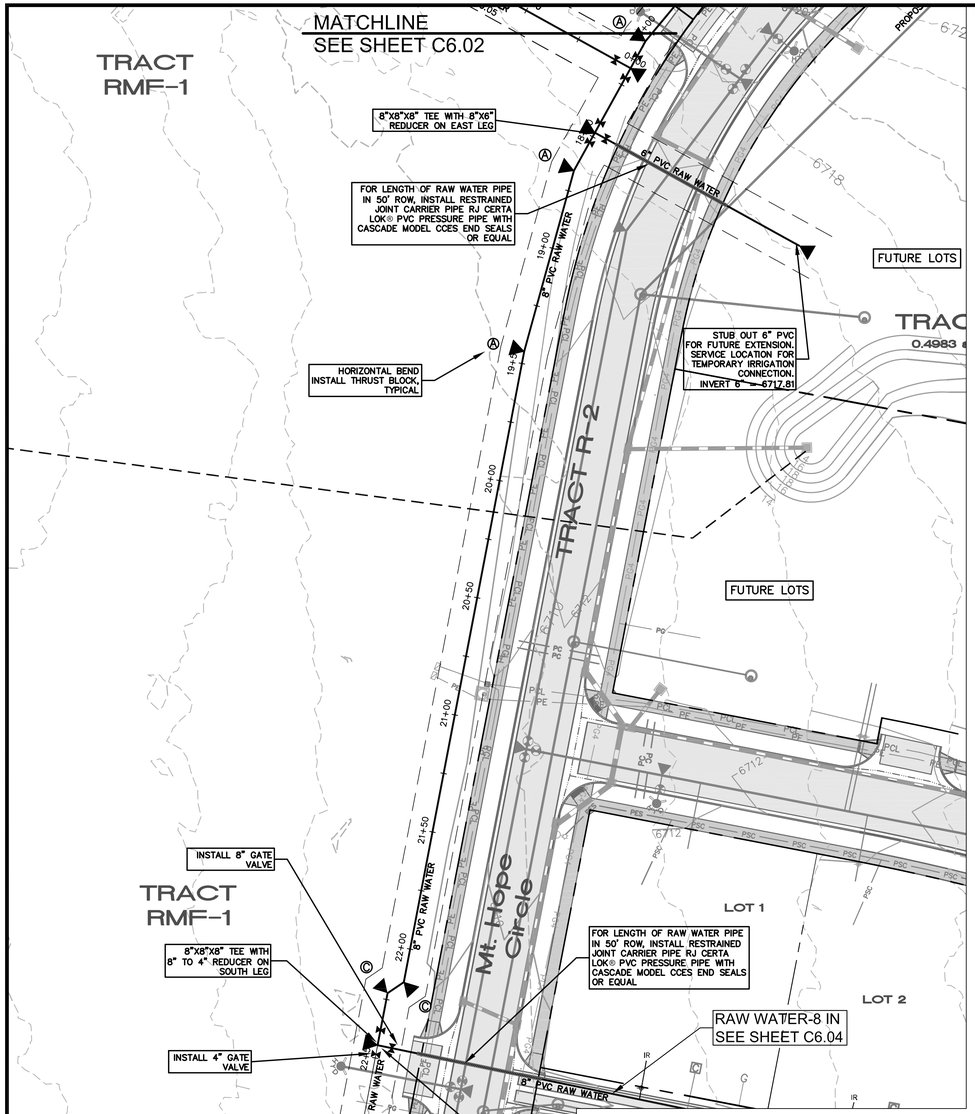
COLORADO LICENSED
MATTHEW C. WILLIAMS
11-8-18
39865
PROFESSIONAL ENGINEER

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C6.02

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Non Potable-Ph1.dwg, 2/21/2019 7:59:05 AM, toth



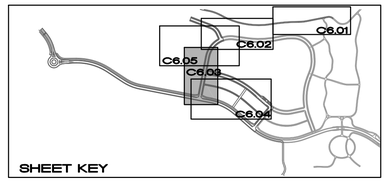
LEGEND

- PROPOSED WATER MAIN W/BEND, THRUST BLOCK
- PROPOSED WATER SERVICE W/ CURB STOP
- PROPOSED FIRE HYDRANT/GV ASSEMBLY
- Ⓐ 11.25° BEND
- Ⓑ 22.5° BEND
- Ⓒ 45° BEND
- PROPOSED SANITARY SEWER MAIN W/ MANHOLE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED STORM SEWER & INLETS
- PROPOSED RAW WATER, VARIOUS SIZES
- PROPOSED RAW WATER SERVICE
- PROPOSED CONTOUR
- PROPOSED ROADWAY
- PROPOSED EASEMENT
- EXISTING SEWER
- EXISTING WATER
- EXISTING RAW WATER
- EXISTING CONTOUR

GRAPHIC SCALE

0 15 30 60

SCALE: 1"= 30'



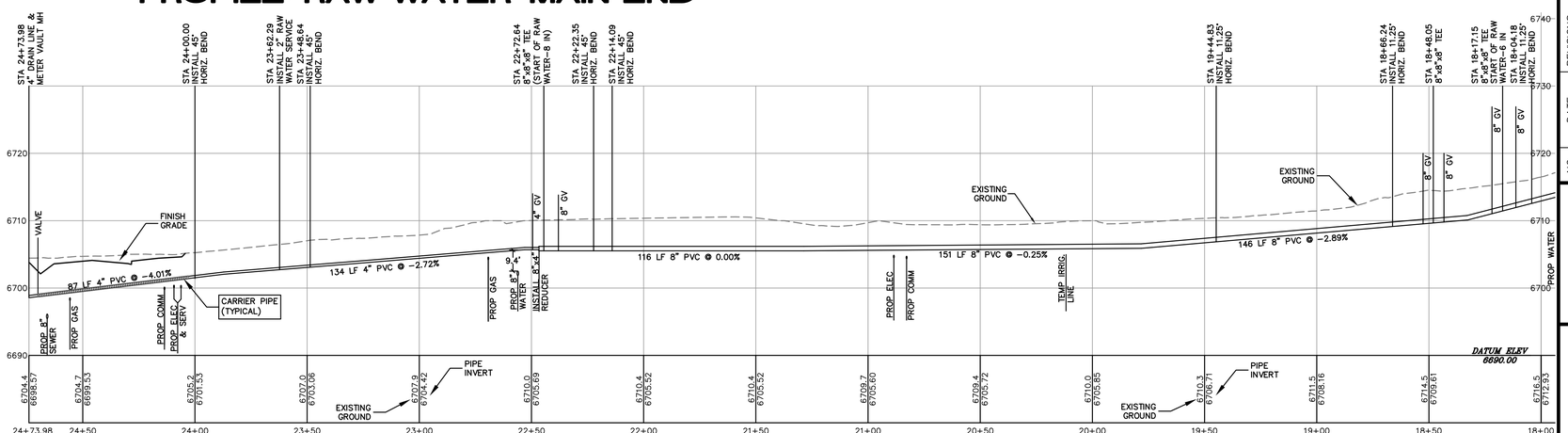
REFER TO SHEET NP-2 FOR SGM, INC. NON-POTABLE IRRIGATION SYSTEM NOTES

RAW WATER SERVICE LINES TO BE 1" DIAMETER UNLESS NOTED OTHERWISE ON THE PLANS

NON-POTABLE WATER SYSTEM TO BE CONSTRUCTED TO TOE PUBLIC WORKS WATER STANDARDS

PROFILE: RAW WATER-MAIN END

SCALE
HORIZONTAL: 1"=30'
VERTICAL: 1"=10'



ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. LEE
11-8-18
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

NON-POTABLE PLAN & PROFILE

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C6.03

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Non Potable-Ph1.dwg, 2/21/2019 8:04:37 AM, foth

8"x6"x8" TEE WITH 8" TO 4" REDUCER ON SOUTH LEG

FOR LENGTH OF RAW WATER PIPE IN 50' ROW, INSTALL RESTRAINED JOINT CARRIER PIPE RJ CERTA LOK® PVC PRESSURE PIPE WITH CASCADE MODEL CCES END SEALS OR EQUAL

INSTALL 4" GATE VALVE

8"x8"x8" TEE BEGIN RAW WATER-8 IN

HORIZONTAL BEND INSTALL THRUST BLOCK, TYPICAL

RAW WATER SERVICE, INSTALL CURB STOP AT PROPERTY LINE, TYPICAL

RAW WATER SERVICE, INSTALL CURB STOP AT PROPERTY LINE, TYPICAL

FOR LENGTH OF RAW WATER PIPE IN ROW, INSTALL RESTRAINED JOINT CARRIER PIPE RJ CERTA LOK® PVC PRESSURE PIPE WITH CASCADE MODEL CCES END SEALS OR EQUAL

PROPOSED 4" NON-POTABLE STUB AND SERVICE CONNECTION, INSTALL 4"x4" TEE AND (2) 4" GATE VALVES. INSTALL 4" DRAIN LINE TO DAYLIGHT IN POND

INSTALL 55 LF OF 4" DRAIN LINE, INV OUT 4" = 99.0 CONSTRUCT SMALL BOULDER HEADWALL TO PROTECT PIPE

FOR LENGTH OF RAW WATER PIPE IN 50' ROW, INSTALL RESTRAINED JOINT CARRIER PIPE RJ CERTA LOK® PVC PRESSURE PIPE WITH CASCADE MODEL CCES END SEALS OR EQUAL

RAW WATER SERVICE, INSTALL CURB STOP AT PROPERTY LINE, TYPICAL

INSTALL 8" GV AND STUB OUT FOR FUTURE EXTENSION AND CONNECTION FOR IRRIGATION SERVICE

SHEET KEY

GRAPHIC SCALE
0 15 30 60
SCALE: 1"= 30'

LEGEND

- PROPOSED WATER MAIN W/BEND, THRUST BLOCK
- PROPOSED WATER SERVICE W/ CURB STOP
- PROPOSED FIRE HYDRANT/GV ASSEMBLY
- (A) 11.25° BEND
- (B) 22.5° BEND
- (C) 45° BEND
- PROPOSED SANITARY SEWER MAIN W/ MANHOLE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED STORM SEWER & INLETS
- PROPOSED RAW WATER, VARIOUS SIZES
- PROPOSED RAW WATER SERVICE
- PROPOSED CONTOUR
- PROPOSED ROADWAY
- PROPOSED EASEMENT
- EXISTING SEWER
- EXISTING WATER
- EXISTING RAW WATER
- EXISTING CONTOUR

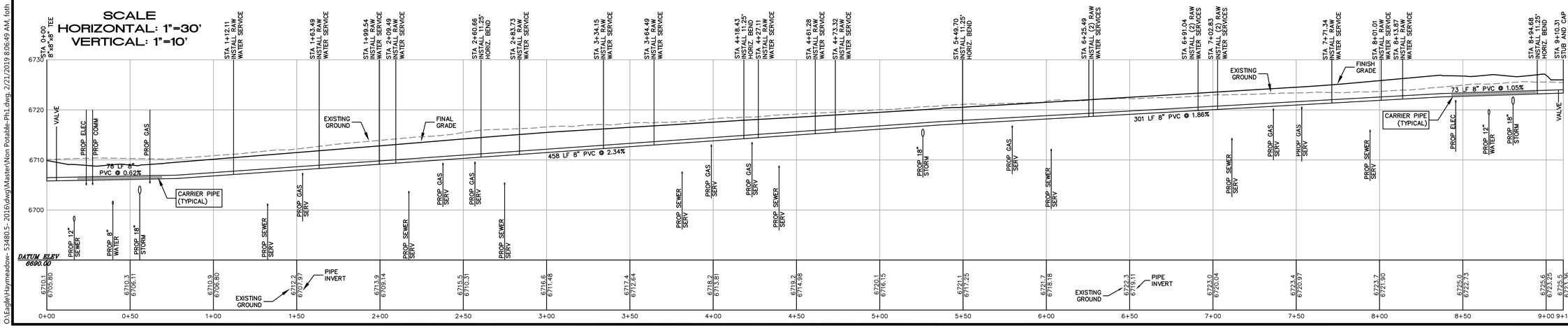
REFER TO SHEET NP-2 FOR SGM, INC. NON-POTABLE IRRIGATION SYSTEM NOTES

RAW WATER SERVICE LINES TO BE 1" DIAMETER UNLESS NOTED OTHERWISE ON THE PLANS

NON-POTABLE WATER SYSTEM TO BE CONSTRUCTED TO TOE PUBLIC WORKS WATER STANDARDS

PROFILE: RAW WATER-8 IN

SCALE
HORIZONTAL: 1"=30'
VERTICAL: 1"=10'



ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. BEE
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

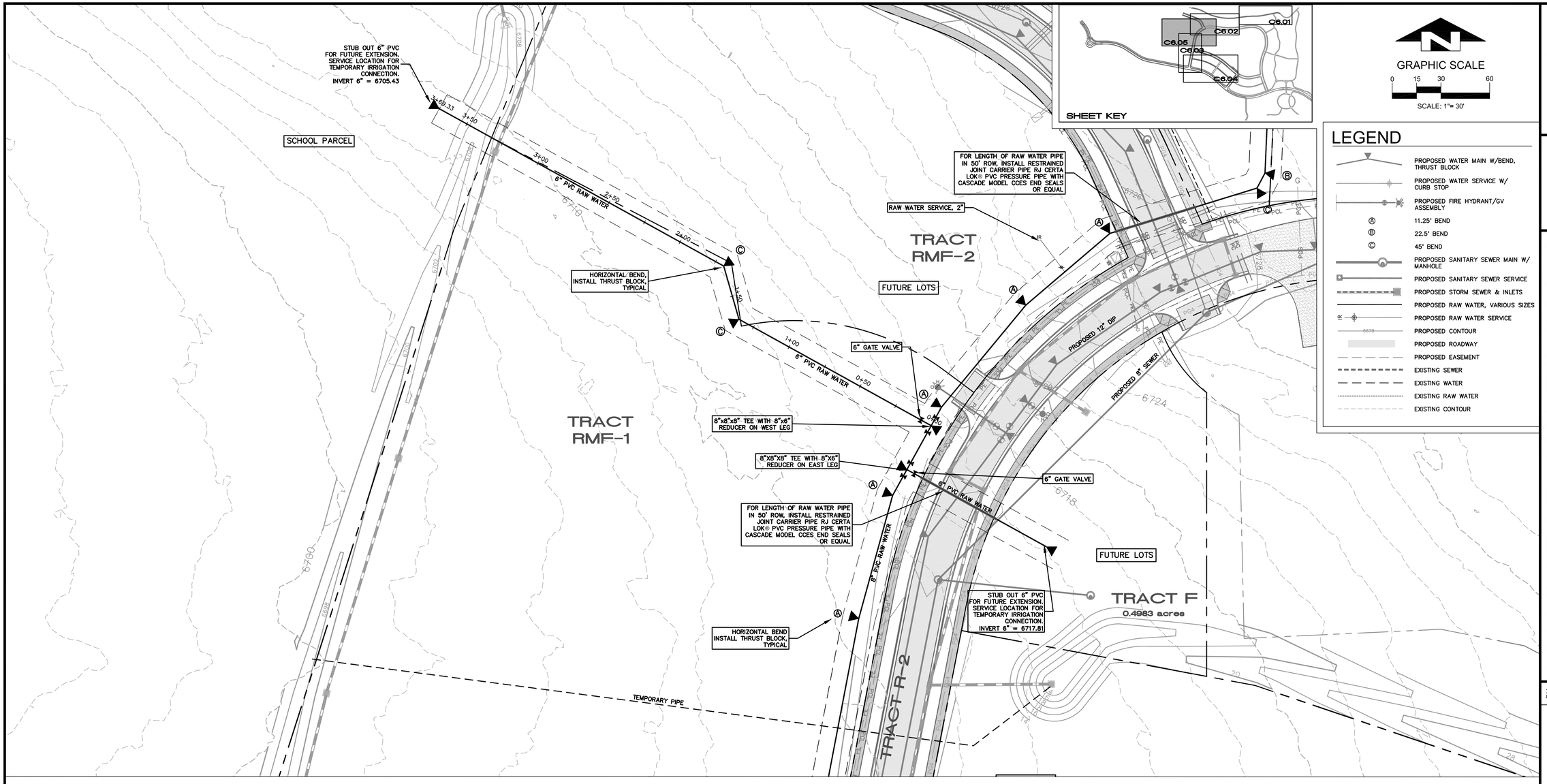
NON-POTABLE PLAN & PROFILE

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

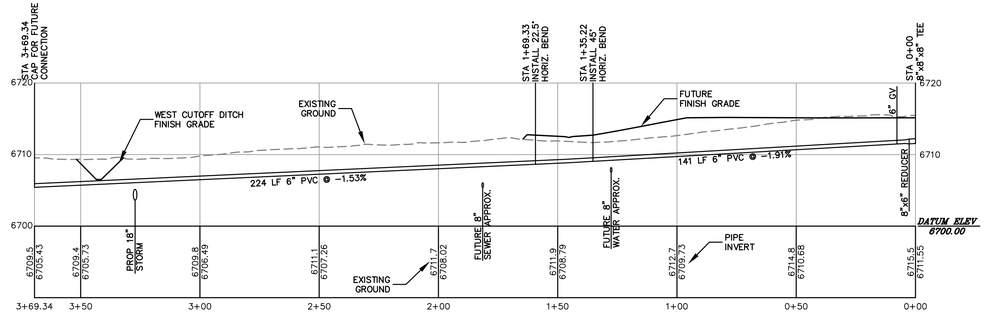
SHEET C6.04

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Non Potable-Ph1.dwg, 2/21/2019 8:06:49 AM, foth



PROFILE: RAW WATER-6 IN

SCALE
HORIZONTAL: 1"=30'
VERTICAL: 1"=10'



REFER TO SHEET NP-2 FOR SGM, INC. NON-POTABLE IRRIGATION SYSTEM NOTES

RAW WATER SERVICE LINES TO BE 1" DIAMETER UNLESS NOTED OTHERWISE ON THE PLANS

NON-POTABLE WATER SYSTEM TO BE CONSTRUCTED TO TOE PUBLIC WORKS WATER STANDARDS

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

MATTHEW C. BLEE 39865 PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

NON-POTABLE PLAN & PROFILE

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C6.05

Q:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Non Potable-Ph1.dwg, 2/21/2019 8:19:38 AM, foth

LEGEND

- PROPOSED PRIMARY ELECTRIC
- PROPOSED CENTURYLINK
- PROPOSED GAS MAIN
- PROPOSED GAS MAIN 4"
- PROPOSED GAS MAIN 2"
- PROPOSED JOINT SERVICE TRENCH
- PROPOSED ELECTRIC SERVICE
- PROPOSED GAS SERVICE
- PROPOSED SPARE CONDUIT
- EXISTING ELECTRICAL VAULT
- EXISTING COMMUNICATIONS VAULT
- PROPOSED ELECTRIC SPLICE VAULT (UM1-35L)
- PROPOSED ELECTRIC TRANSFORMER (UM1-35 - SINGLE PHASE)
- PROPOSED ELECTRIC SWITCHGEAR (UM1-35)
- PROPOSED ELECTRIC JUNCTION BOX
- PROPOSED TELEPHONE PEDESTAL
- PROPOSED STREET LIGHT
- PROPOSED BOLLARD LIGHT

SHALLOW UTILITY EASEMENTS SHOWN, FOR OTHER UTILITY EASEMENTS SEE SPECIFIC SHEETS

CONTRACTOR SHALL INSTALL PULL STRINGS IN ALL MAIN LINE AND SERVICE CONDUITS, SERVICE CONDUITS SHALL BE CAPPED AND MARKED

CONTRACTOR SHALL INSTALL ALL SHALLOW UTILITIES IN ACCORDANCE WITH EACH RESPECTIVE UTILITY COMPANY SPECIFICATIONS

CONTRACTOR SHALL INSTALL SHALLOW UTILITIES BELOW STORM SEWER AND NON-POTABLE PIPE WHERE REQUIRED TO MAINTAIN MINIMUM COVER

SEE ELECTRICAL AND LIGHTING PLANS FOR ADDITIONAL INFORMATION AND DETAILS

N

SCALE: 1" = 40'

SYLVAN LAKE ROAD (EXISTING)

BRUSH CREEK ROAD

SOLEIL CIRCLE

IRRIGATION
INSTALL (2) 4" PVC CONDUIT (SLEEVES) AT 30" DEPTH TYPICAL

EXISTING JOINT TRENCH
-SINGLE PHASE PRIMARY ELECTRIC
-PHONE\CATV
-GAS MAIN

IRRIGATION
INSTALL (2) 4" PVC CONDUIT (SLEEVES) AT 30" DEPTH TYPICAL

TRACT C
SOLEIL HOMES FILING 1

EXISTING 8" PVC SEWER

INSTALL ELECTRIC SERVICE BETWEEN TAPCO RAPID FLASHING BEACONS

INSTALL ELECTRIC SERVICE TO PROPOSED STREETLIGHTS

INSTALL (2) 4" SPARE CONDUITS BOTH SIDES OF SPLITTER ISLAND SWEEP UP, CAP, AND INSTALL PULL STRINGS (TYP)

TRACT B
SOLEIL HOMES FILING 1

EXIST. UM-30R
ELECTRIC SPLICE VAULT

PARCEL A
(TOWN OF EAGLE)

CONNECT TO EXISTING COMMUNICATION VAULT AND EXTEND (1) 4" CONDUIT IN JOINT TRENCH WITH PRIMARY ELECTRIC. INSTALL (1) 4" SPARE CONDOUT IN JOINT TRENCH

EXISTING 8" PVC SEWER

SWEEP CONDUIT BELOW STORM PIPE WITH 12" MIN. CLEARANCE

PROPOSED BOLLARD LIGHT (RE: LIGHTING PLAN) COORDINATE WITH SOLEIL HOMES FOR LOCATION

SWEEP CONDUIT BELOW STORM PIPE WITH 12" MIN. CLEARANCE

CONNECT TO EXISTING ELECTRIC SPLICE VAULT AND EXTEND (2) 6" PRIMARY ELECTRIC CONDUIT IN JOINT TRENCH

SYLVAN LAKE ROAD

GAS MAIN TO CROSS ABOVE SEWER

TRACT E

BLACK HILLS ENERGY TO CONNECT TO EXISTING 8" STEEL GAS STUB AND EXTEND 8" STEEL GAS MAIN IN SYLVAN LAKE ROAD RIGHT OF WAY TO LIMITS SHOWN

PROPOSED 12" PVC SEWER

PROPOSED 8" STEEL GAS MAIN

REMOVE AND REPLACE EXISTING LIGHT POST PRIOR TO INSTALLATION OF PROPOSED GAS MAIN

INSTALL ELECTRIC SERVICE BETWEEN TAPCO RAPID FLASHING BEACONS

INSTALL ELECTRIC SERVICE TO EACH PROPOSED STREETLIGHT

INSTALL UM1-35L ELECTRIC SPLICE VAULT RIM = 6674.5

INSTALL CENTURYLINK 3'X4' HANDHOLE FOR FUTURE PEDESTAL

PROPOSED 12" PVC SEWER MAIN

SWEEP GAS MAIN UNDER PROPOSED CULVERT

PROPOSED 8" STEEL GAS MAIN

IRRIGATION
INSTALL (2) 4" PVC CONDUIT (SLEEVES) AT 30" DEPTH TYPICAL

INSTALL (2) 4" SPARE CONDUITS BOTH SIDES OF SPLITTER ISLAND SWEEP UP, CAP, AND INSTALL PULL STRINGS (TYP)

TRACT OS-1

TRACT OS-2

MATCHLINE

TRACT R-1

PROPOSED 8" STEEL GAS MAIN

PROPOSED 12" PVC SEWER MAIN

TRACT R-1

PROPOSED PRIMARY JOINT TRENCH
(3) 6" ELECTRIC
(1) 4" CENTURYLINK
(1) 4" SPARE CONDUIT

EXTEND (2) ELECTRIC SERVICES CONDUIT TO PROPOSED BOLLARD LIGHTS\ROUNDABOUT STREETLIGHTS

PROPOSED PRIMARY JOINT TRENCH
(3) 6" ELECTRIC 500 MCM FEEDER
(2) 2" SINGLE PHASE ELECTRIC SERVICE. (1) FOR TOWN OF EAGLE ROUNDABOUT LIGHTS, (1) FOR METRO DISTRICT BOLLARD LIGHTS
(1) 4" COMMUNICATION
(1) 4" SPARE CONDUIT

INSTALL 3 PHASE ELECTRIC STUB
(2) 6" CONDUIT.
INSTALL SINGLE PHASE ELECTRIC STUB
(2) 4" CONDUIT
INSTALL CENTURYLINK STUB
(1) 4" CONDUIT
INSTALL ONE SPARE STUB
(1) 4" CONDUIT

MATCHLINE

TRACT R-1

SILVAN LAKE ROAD RIGHT OF WAY

PROPOSED 8" STEEL GAS MAIN

SG1

INSTALL SWITCHGEAR (UM1-3S) AND SINGLE PHASE TRANSFORMER (UM1-3S), (2) ELECTRIC JUNCTION BOXES WITH METER AND DISCONNECT FOR STREETLIGHTS RIM = 6686.0

INSTALL CENTURYLINK 3'X4' HANDHOLE FOR FUTURE PEDESTAL

EXTEND (1) ELECTRIC SERVICE CONDUIT TO PROPOSED BOLLARD LIGHTS\ROUNDABOUT STREETLIGHTS

TRACT E

SWEEP CONDUIT UNDER PROP. STORM PIPE

TRACT A

TRACT B

PROPOSED 8" STEEL GAS MAIN

PROPOSED 12" PVC SEWER MAIN

MATCHLINE

INSTALL (2) 4" SPARE CONDUITS SWEEP UP, CAP, AND INSTALL PULL STRINGS (TYP)

INSTALL UM-30R ELECTRIC SPLICE VAULT RIM = 6712.0

INSTALL (1) 4" ELEC. CONDUIT AND (1) 4" CENTURYLINK CONDUIT SWEEP UP, CAP & INSTALL PULL STRINGS IN HANDHOLE

INSTALL ELECTRIC SERVICE TO PROPOSED STREETLIGHT

TRACT RMF-1

Mt. Hope Circle

PROPOSED 2" PE GAS STUB FOR FUTURE EXTENSION

INSTALL JOINT TRENCH
(1) 4" PRIMARY SINGLE PHASE ELECTRIC
(1) 4" CENTURYLINK
(1) 4" SPARE CONDUIT

INSTALL UM-30R ELECTRIC SPLICE VAULT RIM = 6706.5

INSTALL ELECTRIC SERVICE CONDUIT TO TRACT B

TRACT

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. WEAKLEY
11-8-16
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

SHALLOW UTILITY PLAN

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED	MW, RL	CHECKED	MCW	JOB NO.	53480.5
DRAWN	RF			DATE	02/20/2019

SHEET
C7.01

O:\Eagle\Haymeadow- 53480.5 - 2016.dwg\Master\Shallows-Ph1.dwg, 2/21/2019 10:27:24 AM, fotih

INSTALL (1) 4" ELEC. CONDUIT AND (1) 4" CENTURYLINK CONDUIT SWEEP UP, CAP & INSTALL PULL STRINGS IN HANDHOLE

INSTALL UM-30R ELECTRIC SPLICE VAULT RIM = 6712.0

INSTALL ELECTRIC SERVICE TO PROPOSED STREETLIGHT

JOINT SERVICE TRENCH (ELECTRIC AND CENTURYLINK) TYPICAL

PROPOSED PRIMARY JOINT TRENCH
(1) 4" SINGLE PHASE ELECTRIC
(1) 4" CENTURYLINK
(1) 4" SPARE CONDUIT

TRACT RMF-1

TRACT RMF-4

Mt. Hope Circle

Red Peak Road

LOT 1

LOT 2

LOT 3

LOT 4

LOT 5

LOT 6

LOT 7

LOT 8

LOT 9

LOT 10

LOT 11

LOT 12

LOT 13

PROPOSED 2" PE GAS STUB FOR FUTURE EXTENSION

PROPOSED GAS SERVICE (TYP)

INSTALL (1) 4" CONDUIT. SWEEP UP, CAP & INSTALL PULL STRINGS IN HANDHOLES

PROPOSED 2" GAS MAIN

INSTALL ELECTRIC SERVICE TO PROPOSED STREETLIGHT

INSTALL (2) 4" SPARE CONDUITS SWEEP UP, CAP, AND INSTALL PULL STRINGS (TYP)

INSTALL JOINT TRENCH
(1) 4" PRIMARY SINGLE PHASE ELECTRIC
(1) 4" CENTURYLINK
(1) 4" SPARE CONDUIT

INSTALL SINGLE PHASE TRANSFORMER (UM1-3S) WITH (2) ELECTRIC JUNCTION BOXES WITH METER AND DISCONNECT FOR STREETLIGHTS RIM = 6722.5

INSTALL UM-30R ELECTRIC SPLICE VAULT RIM = 6706.5

PROPOSED 4" PE GAS MAIN

INSTALL CENTURLINK 3'X4' HANDHOLE (FUTURE PEDESTAL)

TRACT A

TRACT B

TRACT C

TRACT D

TRACT E

TRACT F

TRACT R-3

TRACT ALLEY-1

INSTALL (2) 4" SPARE CONDUITS SWEEP UP, CAP, AND INSTALL PULL STRINGS (TYP)

INSTALL ELECTRIC SERVICE CONDUIT TO TRACT B

INSTALL CONDUITS UNDER PROPOSED STORM

INSTALL ELECTRIC SERVICE CONDUIT TO TRACT C

PROPOSED PRIMARY JOINT TRENCH
(3) 6" ELECTRIC 500 MCM FEEDER
(1) 4" CENTURYLINK
(1) 4" SPARE CONDUIT

INSTALL SERVICE CONDUIT TRENCH TO EACH LOT:
(1) 2" PVC- ELECTRIC SERVICE
(1) 2" PVC- PHONE SERVICE
(1) 2" PVC- TV SERVICE

PROPOSED 8" STEEL GAS MAIN

PROPOSED 12" PVC SEWER MAIN

PROP. NON-POTABLE

PROPOSED 8" DIP WATER MAIN

PROPOSED 8" STEEL GAS MAIN

INSTALL SPLICE VAULT (UM1-35L) RIM = 6702.5

INSTALL (2) 4" SPARE CONDUITS SWEEP UP, CAP, AND INSTALL PULL STRINGS (TYP)

SWEEP GAS MAIN UNDER STORM PIPE

BLACK HILLS ENERGY TO INSTALL 2" PE TEE. EXTEND 2" PE TO SERVE POD A1

PROPOSED 8" STEEL GAS MAIN

PROPOSED GAS MAIN

PROPOSED GAS SERVICE (TYP)

PROPOSED PRIMARY JOINT TRENCH
(3) 6" ELECTRIC 500 MCM FEEDER
(1) 4" COMMUNICATION
(1) 4" SPARE CONDUIT

SYLVAN LAKE ROAD

Whitney Peak Road

PROPOSED 12" DIP WATER MAIN

INSTALL SPLICE VAULT (UM1-35L) AND SINGLE PHASE TRANSFORMER (UM1-3S) WITH (2) ELECTRIC JUNCTION BOXES RIM = 6716.0

INSTALL UM-30R ELECTRIC SPLICE VAULT RIM = 6723.8

PROPOSED 1" PE GAS STUB FOR FUTURE EXTENSION

INSTALL CENTURLINK 3'X4' HANDHOLE FOR FUTURE PEDESTAL

INSTALL (1) 4" ELECTRIC AND (1) 4" SPARE CONDUIT

INSTALL (2) 4" SPARE CONDUITS SWEEP UP, CAP, AND INSTALL PULL STRINGS (TYP)

INSTALL SHALLOW UTILITIES ABOVE STORM AT 3.25" COVER

TRACT X

PROPOSED PRIMARY JOINT TRENCH
(3) 6" ELECTRIC 500 MCM FEEDER
(1) 4" SINGLE PHASE ELECTRIC
(1) 4" COMMUNICATION
(1) 4" SPARE CONDUIT

INSTALL ELECTRIC SERVICE TO PROPOSED STREETLIGHT

INSTALL (1) 4" ELEC. CONDUIT, (1) 4" CENTURYLINK AND (1)4" SPARE CONDUIT. SWEEP UP, CAP & INSTALL PULL STRINGS IN HANDHOLE

SWEEP GAS MAIN UNDER PROP. STORM PIPE

SG2

FUTURE 10' PATH

INSTALL SWITCHGEAR (UM1-35) AND SINGLE PHASE TRANSFORMER (UM1-3S) WITH (2) ELECTRIC JUNCTION BOXES RIM = 6718.5

INSTALL CENTURLINK 3'X4' HANDHOLE FOR FUTURE PEDESTAL

SWEEP GAS MAIN UNDER

LEGEND

- PROPOSED PRIMARY ELECTRIC
- PROPOSED CENTURYLINK
- PROPOSED GAS MAIN
- PROPOSED GAS MAIN 4"
- PROPOSED GAS MAIN 2"
- PROPOSED JOINT SERVICE TRENCH
- PROPOSED ELECTRIC SERVICE
- PROPOSED GAS SERVICE
- PROPOSED SPARE CONDUIT
- EXISTING ELECTRICAL VAULT
- EXISTING COMMUNICATIONS VAULT
- PROPOSED ELECTRIC SPLICE VAULT (UM1-35L)
- PROPOSED ELECTRIC TRANSFORMER (UM1-3S - SINGLE PHASE)
- PROPOSED ELECTRIC SWITCHGEAR (UM1-3S)
- PROPOSED ELECTRIC JUNCTION BOX
- PROPOSED TELEPHONE PEDESTAL
- PROPOSED STREET LIGHT
- PROPOSED BOLLARD LIGHT

SHALLOW UTILITY EASEMENTS SHOWN, FOR OTHER UTILITY EASEMENTS SEE SPECIFIC SHEETS

CONTRACTOR SHALL INSTALL PULL STRINGS IN ALL MAIN LINE AND SERVICE CONDUITS, SERVICE CONDUITS SHALL BE CAPPED AND MARKED

CONTRACTOR SHALL INSTALL ALL SHALLOW UTILITIES IN ACCORDANCE WITH EACH RESPECTIVE UTILITY COMPANY SPECIFICATIONS

CONTRACTOR SHALL INSTALL SHALLOW UTILITIES BELOW STORM SEWER AND NON-POTABLE PIPE WHERE REQUIRED TO MAINTAIN MINIMUM COVER

SEE ELECTRICAL AND LIGHTING PLANS FOR ADDITIONAL INFORMATION AND DETAILS

N

SCALE: 1" = 40'

O:\Eagle\Haymeadow-53480.5-2016\dwg\Master\Shallows-Ph1.dwg, 2/21/2019 10:29:42 AM, foth

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. RIES
11-8-18
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

SHALLOW UTILITY PLAN

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C7.02

LEGEND

- PROPOSED PRIMARY ELECTRIC
- PROPOSED CENTURYLINK
- PROPOSED GAS MAIN
- PROPOSED GAS MAIN 4"
- PROPOSED GAS MAIN 2"
- PROPOSED JOINT SERVICE TRENCH
- PROPOSED ELECTRIC SERVICE
- PROPOSED GAS SERVICE
- PROPOSED SPARE CONDUIT
- EXISTING ELECTRICAL VAULT
- EXISTING COMMUNICATIONS VAULT
- PROPOSED ELECTRIC SPLICE VAULT (UM1-35L)
- PROPOSED ELECTRIC TRANSFORMER (UM1-3S - SINGLE PHASE)
- PROPOSED ELECTRIC SWITCHGEAR (UM1-3S)
- PROPOSED ELECTRIC JUNCTION BOX
- PROPOSED TELEPHONE PEDESTAL
- PROPOSED STREET LIGHT
- PROPOSED BOLLARD LIGHT

SHALLOW UTILITY EASEMENTS SHOWN, FOR OTHER UTILITY EASEMENTS SEE SPECIFIC SHEETS

CONTRACTOR SHALL INSTALL PULL STRINGS IN ALL MAIN LINE AND SERVICE CONDUITS, SERVICE CONDUITS SHALL BE CAPPED AND MARKED

CONTRACTOR SHALL INSTALL ALL SHALLOW UTILITIES IN ACCORDANCE WITH EACH RESPECTIVE UTILITY COMPANY SPECIFICATIONS

CONTRACTOR SHALL INSTALL SHALLOW UTILITIES BELOW STORM SEWER AND NON-POTABLE PIPE WHERE REQUIRED TO MAINTAIN MINIMUM COVER

SEE ELECTRICAL AND LIGHTING PLANS FOR ADDITIONAL INFORMATION AND DETAILS

SCALE: 1" = 40'

TRACT RMF-4

JOINT SERVICE TRENCH (ELECTRIC AND CENTURYLINK) TYPICAL

PROPOSED PRIMARY JOINT TRENCH
(1) 4" SINGLE PHASE ELECTRIC
(1) 4" CENTURYLINK
(1) 4" SPARE CONDUIT

Red Peak Road

INSTALL (1) 4" CONDUIT. SWEEP UP, CAP & INSTALL PULL STRINGS IN HANDHOLES

PROPOSED GAS SERVICE (TYP)

LOT 1

LOT 2

LOT 3

PROPOSED 2" GAS MAIN

INSTALL ELECTRIC SERVICE TO PROPOSED STREETLIGHT

INSTALL (2) 4" SPARE CONDUITS SWEEP UP, CAP, AND INSTALL PULL STRINGS (TYP)

LOT 4

LOT 5

INSTALL SINGLE PHASE TRANSFORMER (UM1-3S) WITH (2) ELECTRIC JUNCTION BOXES WITH METER AND DISCONNECT FOR STREETLIGHTS RIM = 6722.5

INSTALL CENTURLINK 3'X4' HANDHOLE (FUTURE PEDESTAL)

TRACT D

TRACT X

ROPOSED 4" PE AS MAIN

INSTALL (2) 4" SPARE CONDUITS SWEEP UP, CAP, AND INSTALL PULL STRINGS (TYP)

CONDUITS PROPOSED

INSTALL ELECTRIC SERVICE CONDUIT TO TRACT C

LOT 13

JOINT SERVICE TRENCH (ELECTRIC AND CENTURYLINK) TYPICAL

LOT 12

PROPOSED PRIMARY JOINT TRENCH
(3) 6" ELECTRIC 500 MCM FEEDER
(1) 4" CENTURYLINK
(1) 4" SPARE CONDUIT

LOT 11

LOT 6

INSTALL SERVICE CONDUIT TRENCH TO EACH LOT:
(1) 2" PVC- ELECTRIC SERVICE
(1) 2" PVC- PHONE SERVICE
(1) 2" PVC- TV SERVICE

TRACT R-3

INSTALL (2) 4" SPARE CONDUITS SWEEP UP, CAP, AND INSTALL PULL STRINGS (TYP)

INSTALL ELECTRIC SERVICE TO PROPOSED STREETLIGHT

INSTALL UM-30R ELECTRIC SPLICE VAULT RIM = 6731.1 INSTALL CENTURYLINK PEDESTAL

INSTALL (1) 4" ELEC. CONDUIT, (1) 4" CENTURYLINK AND (1)4" SPARE CONDUIT. SWEEP UP, CAP & INSTALL PULL STRINGS IN HANDHOLES

WATER MAIN

SED 8" STEEL GAS MAIN

TRACT ALLEY-1

TRACT F

LOT 7

PROPOSED GAS MAIN

SWEEP GAS MAIN UNDER STORM PIPE

PROPOSED 8" STEEL GAS MAIN

PROPOSED GAS SERVICE (TYP)

LOT 8

LOT 10

Whitney Peak Road

SYLVAN LAKE ROAD

PROPOSED 12" DIP WATER MAIN

PROPOSED PRIMARY JOINT TRENCH
(3) 6" ELECTRIC 500 MCM FEEDER
(1) 4" COMMUNICATION
(1) 4" SPARE CONDUIT

INSTALL SPLICE VAULT (UM1-35L) AND SINGLE PHASE TRANSFORMER (UM1-3S) WITH (2) ELECTRIC JUNCTION BOXES RIM = 6716.0

LOT 9

INSTALL UM-30R ELECTRIC SPLICE VAULT RIM = 6723.8

PROPOSED 1" PE GAS STUB FOR FUTURE EXTENSION

INSTALL CENTURLINK 3'X4' HANDHOLE FOR FUTURE PEDESTAL

INSTALL (1) 4" ELECTRIC AND (1) 4" SPARE CONDUIT

INSTALL (2) 4" SPARE CONDUITS SWEEP UP, CAP, AND INSTALL PULL STRINGS (TYP)

INSTALL SHALLOW UTILITIES ABOVE STORM AT 3.25' COVER

TRACT X

PROPOSED PRIMARY JOINT TRENCH
(3) 6" ELECTRIC 500 MCM FEEDER
(1) 4" SINGLE PHASE ELECTRIC
(1) 4" COMMUNICATION
(1) 4" SPARE CONDUIT

INSTALL ELECTRIC SERVICE TO PROPOSED STREETLIGHT

INSTALL (1) 4" ELEC. CONDUIT, (1) 4" CENTURYLINK AND (1)4" SPARE CONDUIT. SWEEP UP, CAP & INSTALL PULL STRINGS IN HANDHOLE

SWEEP GAS MAIN UNDER PROP. STORM PIPE

SG2

FUTURE 10' PATH

TRACT R-1

INSTALL SWITCHGEAR (UM1-3S) AND SINGLE PHASE TRANSFORMER (UM1-3S) WITH (2) ELECTRIC JUNCTION BOXES RIM = 6718.5

INSTALL CENTURLINK 3'X4' HANDHOLE FOR FUTURE PEDESTAL

END 8" STEEL GAS MAIN. BLACK HILLS TO INSTALL GAS MAIN AND CAP.

0+00

SWEEP GAS MAIN UNDER PROP. STORM PIPE

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. RIEL
11-8-19
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

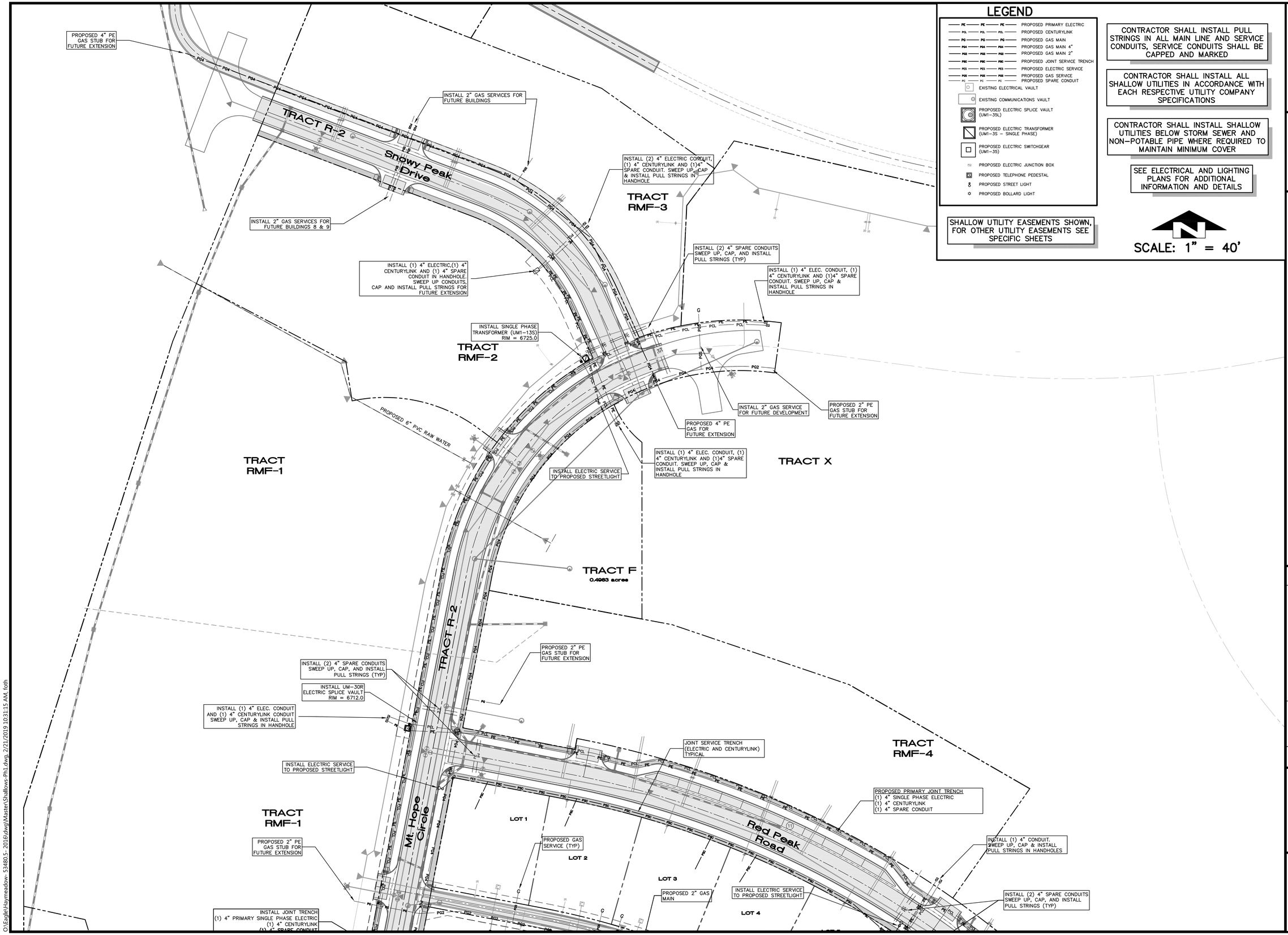
SHALLOW UTILITY PLAN

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C7.03

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Shallows-Ph1.dwg, 2/21/2019 10:30:32 AM, foth



LEGEND

- PROPOSED PRIMARY ELECTRIC
- PROPOSED CENTURYLINK
- PROPOSED GAS MAIN
- PROPOSED GAS MAIN 4"
- PROPOSED GAS MAIN 2"
- PROPOSED JOINT SERVICE TRENCH
- PROPOSED ELECTRIC SERVICE
- PROPOSED GAS SERVICE
- PROPOSED SPARE CONDUIT
- EXISTING ELECTRICAL VAULT
- EXISTING COMMUNICATIONS VAULT
- PROPOSED ELECTRIC SPLICE VAULT (UM1-35L)
- PROPOSED ELECTRIC TRANSFORMER (UM1-3S - SINGLE PHASE)
- PROPOSED ELECTRIC SWITCHGEAR (UM1-3S)
- PROPOSED ELECTRIC JUNCTION BOX
- PROPOSED TELEPHONE PEDESTAL
- PROPOSED STREET LIGHT
- PROPOSED BOLLARD LIGHT

CONTRACTOR SHALL INSTALL PULL STRINGS IN ALL MAIN LINE AND SERVICE CONDUITS, SERVICE CONDUITS SHALL BE CAPPED AND MARKED

CONTRACTOR SHALL INSTALL ALL SHALLOW UTILITIES IN ACCORDANCE WITH EACH RESPECTIVE UTILITY COMPANY SPECIFICATIONS

CONTRACTOR SHALL INSTALL SHALLOW UTILITIES BELOW STORM SEWER AND NON-POTABLE PIPE WHERE REQUIRED TO MAINTAIN MINIMUM COVER

SEE ELECTRICAL AND LIGHTING PLANS FOR ADDITIONAL INFORMATION AND DETAILS

SHALLOW UTILITY EASEMENTS SHOWN, FOR OTHER UTILITY EASEMENTS SEE SPECIFIC SHEETS

SCALE: 1" = 40'

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED MATTHEW C. [illegible] 39865 PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

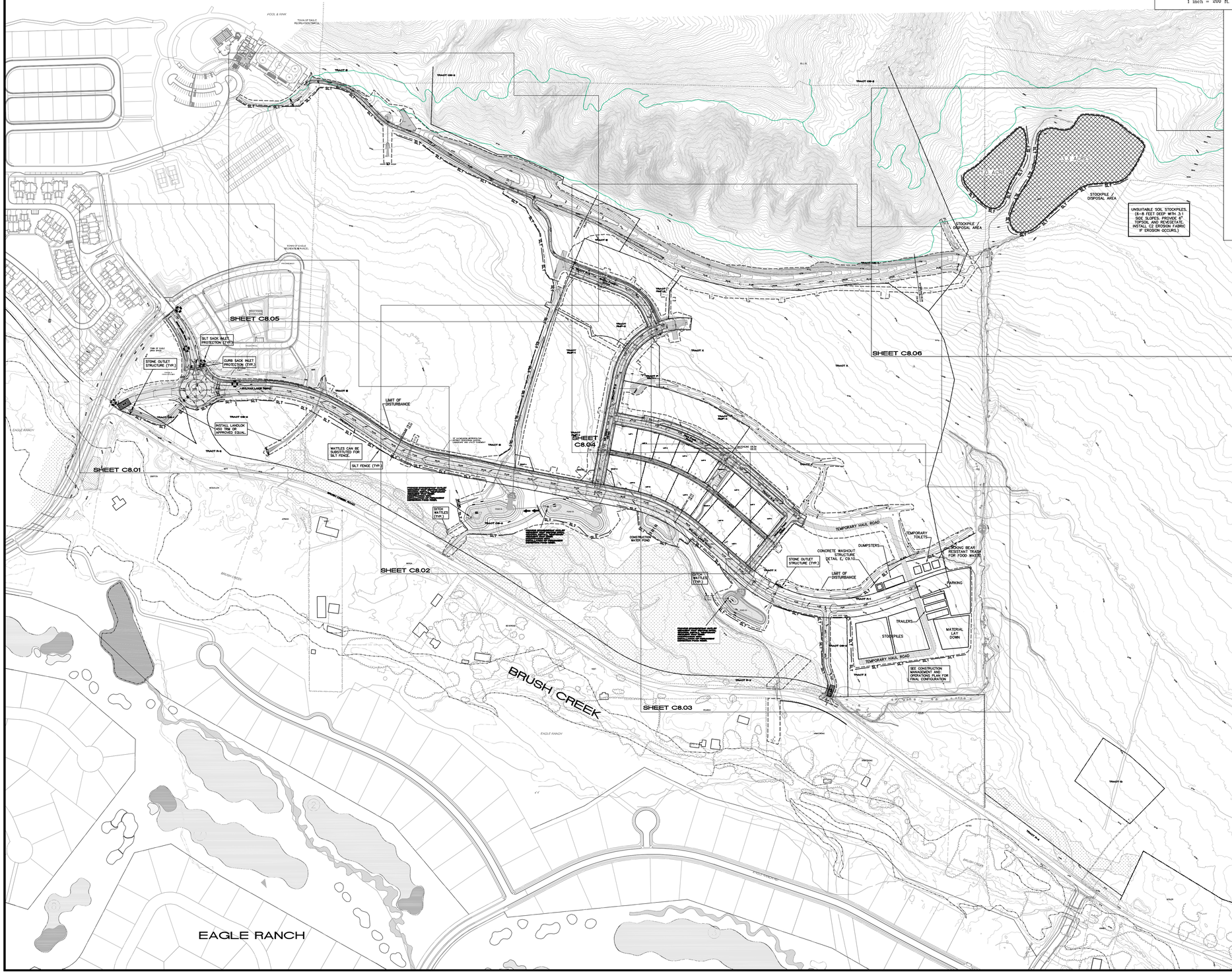
SHALLOW UTILITY PLAN

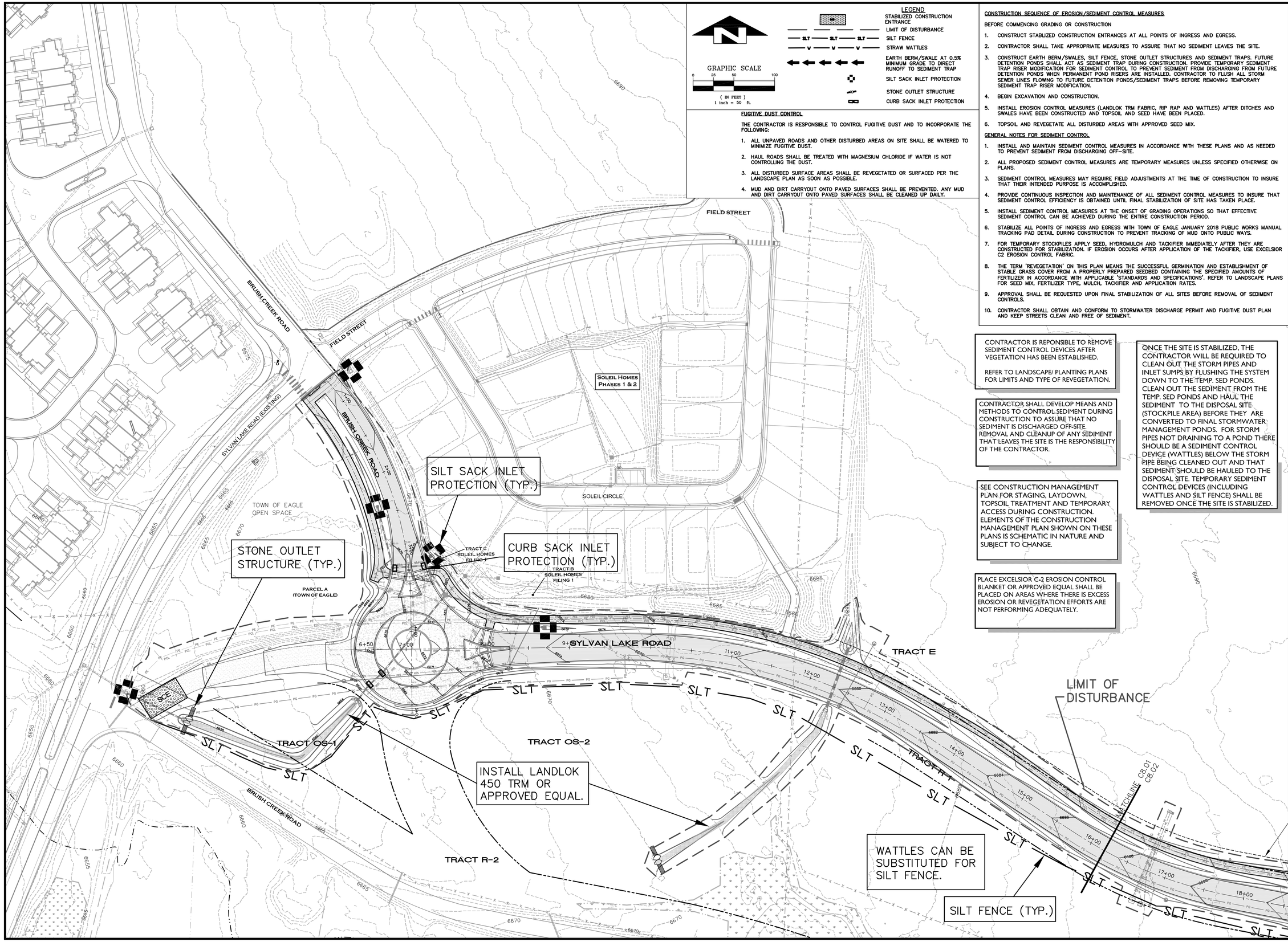
NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	GB
	02/20/2019	RESPONSE TO COMMENTS	

DESIGNED	MW, RL
DRAWN	RF
CHECKED	MCW
JOB NO.	53480.5
DATE	02/20/2019

SHEET C7.04

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Shallows-Ph1.dwg, 2/21/2019 10:31:15 AM, foth


SHEET C8.05
SHEET C8.06
SHEET C8.04
SHEET C8.01
SHEET C8.02
SHEET C8.03
SILT SACK INLET PROTECTION (TYP.)
CURB SACK INLET PROTECTION (TYP.)
STONE OUTLET STRUCTURE (TYP.)
INSTALL LANDLOK 450 TRM OR APPROVED EQUAL
WATTLES CAN BE SUBSTITUTED FOR SILT FENCE.
SILT FENCE (TYP.)
LIMIT OF DISTURBANCE
DITCH WATTLES (TYP.)
CONSTRUCTION WATER POND
TEMPORARY HAUL ROAD
TEMPORARY TOILET
DUMPSTERS
CONCRETE WASHOUT STRUCTURE DETAIL E, C9.10
TRAILERS
STOCKPILES
MATERIAL LAY DOWN
PARKING
SEE CONSTRUCTION OPERATIONS PLAN FOR FINAL CONFIGURATION
UNSUITABLE SOIL STOCKPILES, (6-8 FEET DEEP, WITH 3:1 SIDE SLOPES. PROVIDE 6" TOPSOIL AND VEGETATIVE MATTING OR EROSION MATTING IF EROSION OCCURS.)
STOCKPILE DISPOSAL AREA
10.0 ACRES
11.1 ACRES
BRUSH CREEK
EAGLE RANCH
TRACT A
TRACT B
TRACT C
TRACT D
TRACT E
TRACT F
TRACT G
TRACT H
TRACT J
TRACT K
TRACT OS-1
TRACT OS-2
TRACT OS-3
TRACT OS-4
TRACT OS-5
TRACT OS-6
TRACT OS-7
TRACT OS-8
TRACT OS-9
TRACT OS-10
TRACT OS-11
TRACT OS-12
TRACT OS-13
TRACT OS-14
TRACT OS-15
TRACT OS-16
TRACT OS-17
TRACT OS-18
TRACT OS-19
TRACT OS-20
TRACT OS-21
TRACT OS-22
TRACT OS-23
TRACT OS-24
TRACT OS-25
TRACT OS-26
TRACT OS-27
TRACT OS-28
TRACT OS-29
TRACT OS-30
TRACT OS-31
TRACT OS-32
TRACT OS-33
TRACT OS-34
TRACT OS-35
TRACT OS-36
TRACT OS-37
TRACT OS-38
TRACT OS-39
TRACT OS-40
TRACT OS-41
TRACT OS-42
TRACT OS-43
TRACT OS-44
TRACT OS-45
TRACT OS-46
TRACT OS-47
TRACT OS-48
TRACT OS-49
TRACT OS-50
TRACT OS-51
TRACT OS-52
TRACT OS-53
TRACT OS-54
TRACT OS-55
TRACT OS-56
TRACT OS-57
TRACT OS-58
TRACT OS-59
TRACT OS-60
TRACT OS-61
TRACT OS-62
TRACT OS-63
TRACT OS-64
TRACT OS-65
TRACT OS-66
TRACT OS-67
TRACT OS-68
TRACT OS-69
TRACT OS-70
TRACT OS-71
TRACT OS-72
TRACT OS-73
TRACT OS-74
TRACT OS-75
TRACT OS-76
TRACT OS-77
TRACT OS-78
TRACT OS-79
TRACT OS-80
TRACT OS-81
TRACT OS-82
TRACT OS-83
TRACT OS-84
TRACT OS-85
TRACT OS-86
TRACT OS-87
TRACT OS-88
TRACT OS-89
TRACT OS-90
TRACT OS-91
TRACT OS-92
TRACT OS-93
TRACT OS-94
TRACT OS-95
TRACT OS-96
TRACT OS-97
TRACT OS-98
TRACT OS-99
TRACT OS-100
TRACT OS-101
TRACT OS-102
TRACT OS-103
TRACT OS-104
TRACT OS-105
TRACT OS-106
TRACT OS-107
TRACT OS-108
TRACT OS-109
TRACT OS-110
TRACT OS-111
TRACT OS-112
TRACT OS-113
TRACT OS-114
TRACT OS-115
TRACT OS-116
TRACT OS-117
TRACT OS-118
TRACT OS-119
TRACT OS-120
TRACT OS-121
TRACT OS-122
TRACT OS-123
TRACT OS-124
TRACT OS-125
TRACT OS-126
TRACT OS-127
TRACT OS-128
TRACT OS-129
TRACT OS-130
TRACT OS-131
TRACT OS-132
TRACT OS-133
TRACT OS-134
TRACT OS-135
TRACT OS-136
TRACT OS-137
TRACT OS-138
TRACT OS-139
TRACT OS-140
TRACT OS-141
TRACT OS-142
TRACT OS-143
TRACT OS-144
TRACT OS-145
TRACT OS-146
TRACT OS-147
TRACT OS-148
TRACT OS-149
TRACT OS-150
TRACT OS-151
TRACT OS-152
TRACT OS-153
TRACT OS-154
TRACT OS-155
TRACT OS-156
TRACT OS-157
TRACT OS-158
TRACT OS-159
TRACT OS-160
TRACT OS-161
TRACT OS-162
TRACT OS-163
TRACT OS-164
TRACT OS-165
TRACT OS-166
TRACT OS-167
TRACT OS-168
TRACT OS-169
TRACT OS-170
TRACT OS-171
TRACT OS-172
TRACT OS-173
TRACT OS-174
TRACT OS-175
TRACT OS-176
TRACT OS-177
TRACT OS-178
TRACT OS-179
TRACT OS-180
TRACT OS-181
TRACT OS-182
TRACT OS-183
TRACT OS-184
TRACT OS-185
TRACT OS-186
TRACT OS-187
TRACT OS-188
TRACT OS-189
TRACT OS-190
TRACT OS-191
TRACT OS-192
TRACT OS-193
TRACT OS-194
TRACT OS-195
TRACT OS-196
TRACT OS-197
TRACT OS-198
TRACT OS-199
TRACT OS-200
TRACT OS-201
TRACT OS-202
TRACT OS-203
TRACT OS-204
TRACT OS-205
TRACT OS-206
TRACT OS-207
TRACT OS-208
TRACT OS-209
TRACT OS-210
TRACT OS-211
TRACT OS-212
TRACT OS-213
TRACT OS-214
TRACT OS-215
TRACT OS-216
TRACT OS-217
TRACT OS-218
TRACT OS-219
TRACT OS-220
TRACT OS-221
TRACT OS-222
TRACT OS-223
TRACT OS-224
TRACT OS-225
TRACT OS-226
TRACT OS-227
TRACT OS-228
TRACT OS-229
TRACT OS-230
TRACT OS-231
TRACT OS-232
TRACT OS-233
TRACT OS-234
TRACT OS-235
TRACT OS-236
TRACT OS-237
TRACT OS-238
TRACT OS-239
TRACT OS-240
TRACT OS-241
TRACT OS-242
TRACT OS-243
TRACT OS-244
TRACT OS-245
TRACT OS-246
TRACT OS-247
TRACT OS-248
TRACT OS-249
TRACT OS-250
TRACT OS-251
TRACT OS-252
TRACT OS-253
TRACT OS-254
TRACT OS-255
TRACT OS-256
TRACT OS-257
TRACT OS-258
TRACT OS-259
TRACT OS-260
TRACT OS-261
TRACT OS-262
TRACT OS-263
TRACT OS-264
TRACT OS-265
TRACT OS-266
TRACT OS-267
TRACT OS-268
TRACT OS-269
TRACT OS-270
TRACT OS-271
TRACT OS-272
TRACT OS-273
TRACT OS-274
TRACT OS-275
TRACT OS-276
TRACT OS-277
TRACT OS-278
TRACT OS-279
TRACT OS-280
TRACT OS-281
TRACT OS-282
TRACT OS-283
TRACT OS-284
TRACT OS-285
TRACT OS-286
TRACT OS-287
TRACT OS-288
TRACT OS-289
TRACT OS-290
TRACT OS-291
TRACT OS-292
TRACT OS-293
TRACT OS-294
TRACT OS-295
TRACT OS-296
TRACT OS-297
TRACT OS-298
TRACT OS-299
TRACT OS-300
TRACT OS-301
TRACT OS-302
TRACT OS-303
TRACT OS-304
TRACT OS-305
TRACT OS-306
TRACT OS-307
TRACT OS-308
TRACT OS-309
TRACT OS-310
TRACT OS-311
TRACT OS-312
TRACT OS-313
TRACT OS-314
TRACT OS-315
TRACT OS-316
TRACT OS-317
TRACT OS-318
TRACT OS-319
TRACT OS-320
TRACT OS-321
TRACT OS-322
TRACT OS-323
TRACT OS-324
TRACT OS-325
TRACT OS-326
TRACT OS-327
TRACT OS-328
TRACT OS-329
TRACT OS-330
TRACT OS-331
TRACT OS-332
TRACT OS-333
TRACT OS-334
TRACT OS-335
TRACT OS-336
TRACT OS-337
TRACT OS-338
TRACT OS-339
TRACT OS-340
TRACT OS-341
TRACT OS-342
TRACT OS-343
TRACT OS-344
TRACT OS-345
TRACT OS-346
TRACT OS-347
TRACT OS-348
TRACT OS-349
TRACT OS-350
TRACT OS-351
TRACT OS-352
TRACT OS-353
TRACT OS-354
TRACT OS-355
TRACT OS-356
TRACT OS-357
TRACT OS-358
TRACT OS-359
TRACT OS-360
TRACT OS-361
TRACT OS-362
TRACT OS-363
TRACT OS-364
TRACT OS-365
TRACT OS-366
TRACT OS-367
TRACT OS-368
TRACT OS-369
TRACT OS-370
TRACT OS-371
TRACT OS-372
TRACT OS-373
TRACT OS-374
TRACT OS-375
TRACT OS-376
TRACT OS-377
TRACT OS-378
TRACT OS-379
TRACT OS-380
TRACT OS-381
TRACT OS-382
TRACT OS-383
TRACT OS-384
TRACT OS-385
TRACT OS-386
TRACT OS-387
TRACT OS-388
TRACT OS-389
TRACT OS-390
TRACT OS-391
TRACT OS-392
TRACT OS-393
TRACT OS-394
TRACT OS-395
TRACT OS-396
TRACT OS-397
TRACT OS-398
TRACT OS-399
TRACT OS-400
TRACT OS-401
TRACT OS-402
TRACT OS-403
TRACT OS-404
TRACT OS-405
TRACT OS-406
TRACT OS-407
TRACT OS-408
TRACT OS-409
TRACT OS-410
TRACT OS-411
TRACT OS-412
TRACT OS-413
TRACT OS-414
TRACT OS-415
TRACT OS-416
TRACT OS-417
TRACT OS-418
TRACT OS-419
TRACT OS-420
TRACT OS-421
TRACT OS-422
TRACT OS-423
TRACT OS-424
TRACT OS-425
TRACT OS-426
TRACT OS-427
TRACT OS-428
TRACT OS-429
TRACT OS-430
TRACT OS-431
TRACT OS-432
TRACT OS-433
TRACT OS-434
TRACT OS-435
TRACT OS-436
TRACT OS-437
TRACT OS-438
TRACT OS-439
TRACT OS-440
TRACT OS-441
TRACT OS-442
TRACT OS-443
TRACT OS-444
TRACT OS-445
TRACT OS-446
TRACT OS-447
TRACT OS-448
TRACT OS-449
TRACT OS-450
TRACT OS-451
TRACT OS-452
TRACT OS-453
TRACT OS-454
TRACT OS-455
TRACT OS-456
TRACT OS-457
TRACT OS-458
TRACT OS-459
TRACT OS-460
TRACT OS-461
TRACT OS-462
TRACT OS-463
TRACT OS-464
TRACT OS-465
TRACT OS-466
TRACT OS-467
TRACT OS-468
TRACT OS-469
TRACT OS-470
TRACT OS-471
TRACT OS-472
TRACT OS-473
TRACT OS-474
TRACT OS-475
TRACT OS-476
TRACT OS-477
TRACT OS-478
TRACT OS-479
TRACT OS-480
TRACT OS-481
TRACT OS-482
TRACT OS-483
TRACT OS-484
TRACT OS-485
TRACT OS-486
TRACT OS-487
TRACT OS-488
TRACT OS-489
TRACT OS-490
TRACT OS-491
TRACT OS-492
TRACT OS-493
TRACT OS-494
TRACT OS-495
TRACT OS-496
TRACT OS-497
TRACT OS-498
TRACT OS-499
TRACT OS-500
TRACT OS-501
TRACT OS-502
TRACT OS-503
TRACT OS-504
TRACT OS-505
TRACT OS-506
TRACT OS-507
TRACT OS-508
TRACT OS-509
TRACT OS-510
TRACT OS-511
TRACT OS-512
TRACT OS-513
TRACT OS-514
TRACT OS-515
TRACT OS-516
TRACT OS-517
TRACT OS-518
TRACT OS-519
TRACT OS-520
TRACT OS-521
TRACT OS-522
TRACT OS-523
TRACT OS-524
TRACT OS-525
TRACT OS-526
TRACT OS-527
TRACT OS-528
TRACT OS-529
TRACT OS-530
TRACT OS-531
TRACT OS-532
TRACT OS-533
TRACT OS-534
TRACT OS-535
TRACT OS-536
TRACT OS-537
TRACT OS-538
TRACT OS-539
TRACT OS-540
TRACT OS-541
TRACT OS-542
TRACT OS-543
TRACT OS-544
TRACT OS-545
TRACT OS-546
TRACT OS-547
TRACT OS-548
TRACT OS-549
TRACT OS-550
TRACT OS-551
TRACT OS-552
TRACT OS-553
TRACT OS-554
TRACT OS-555
TRACT OS-556
TRACT OS-557
TRACT OS-558
TRACT OS-559
TRACT OS-560
TRACT OS-561
TRACT OS-562
TRACT OS-563
TRACT OS-564
TRACT OS-565
TRACT OS-566
TRACT OS-567
TRACT OS-568
TRACT OS-569
TRACT OS-570
TRACT OS-571
TRACT OS-572
TRACT OS-573
TRACT OS-574
TRACT OS-575
TRACT OS-576
TRACT OS-577
TRACT OS-578
TRACT OS-579
TRACT OS-580
TRACT OS-581
TRACT OS-582
TRACT OS-583
TRACT OS-584
TRACT OS-585
TRACT OS-586
TRACT OS-587
TRACT OS-588
TRACT OS-589
TRACT OS-590
TRACT OS-591
TRACT OS-592
TRACT OS-593
TRACT OS-594
TRACT OS-595
TRACT OS-596
TRACT OS-597
TRACT OS-598
TRACT OS-599
TRACT OS-600
TRACT OS-601
TRACT OS-602
TRACT OS-603
TRACT OS-604
TRACT OS-605
TRACT OS-606
TRACT OS-607
TRACT OS-608
TRACT OS-609
TRACT OS-610
TRACT OS-611
TRACT OS-612
TRACT OS-613
TRACT OS-614
TRACT OS-615
TRACT OS-616
TRACT OS-617
TRACT OS-618
TRACT OS-619
TRACT OS-620
TRACT OS-621
TRACT OS-622
TRACT OS-623
TRACT OS-624
TRACT OS-625
TRACT OS-626
TRACT OS-627
TRACT OS-628
TRACT OS-629
TRACT OS-630
TRACT OS-631
TRACT OS-632
TRACT OS-633
TRACT OS-634
TRACT OS-635
TRACT OS-636
TRACT OS-637
TRACT OS-638
TRACT OS-639
TRACT OS-640
TRACT OS-641
TRACT OS-642
TRACT OS-643
TRACT OS-644
TRACT OS-645
TRACT OS-646
TRACT OS-647
TRACT OS-648
TRACT OS-649
TRACT OS-650
TRACT OS-651
TRACT OS-652
TRACT OS-653
TRACT OS-654
TRACT OS-655
TRACT OS-656
TRACT OS-657
TRACT OS-658
TRACT OS-659
TRACT OS-660
TRACT OS-661
TRACT OS-662
TRACT OS-663
TRACT OS-664
TRACT OS-665
TRACT OS-666
TRACT OS-667
TRACT OS-668
TRACT OS-669
TRACT OS-670
TRACT OS-671
TRACT OS-672
TRACT OS-673
TRACT OS-674
TRACT OS-675
TRACT OS-676
TRACT OS-677
TRACT OS-678
TRACT OS-679
TRACT OS-680
TRACT OS-681
TRACT OS-682
TRACT OS-683
TRACT OS-684
TRACT OS-685
TRACT OS-686
TRACT OS-687
TRACT OS-688
TRACT OS-689
TRACT OS-690
TRACT OS-691
TRACT OS-692
TRACT OS-693
TRACT OS-694
TRACT OS-695
TRACT OS-696
TRACT OS-697
TRACT OS-698
TRACT OS-699
TRACT OS-700
TRACT OS-701
TRACT OS-702
TRACT OS-703
TRACT OS-704
TRACT OS-705
TRACT OS-706
TRACT OS-707
TRACT OS-708
TRACT OS-709
TRACT OS-710
TRACT OS-711
TRACT OS-712
TRACT OS-713
TRACT OS-714
TRACT OS-715
TRACT OS-716
TRACT OS-717
TRACT OS-718
TRACT OS-719
TRACT OS-720
TRACT OS-721
TRACT OS-722
TRACT OS-723
TRACT OS-724
TRACT OS-725
TRACT OS-726
TRACT OS-727
TRACT OS-728
TRACT OS-729
TRACT OS-730
TRACT OS-731
TRACT OS-732
TRACT OS-733
TRACT OS-734
TRACT OS-735
TRACT OS-736
TRACT OS-737
TRACT OS-738
TRACT OS-739
TRACT OS-740
TRACT OS-741
TRACT OS-742
TRACT OS-743
TRACT OS-744
TRACT OS-745
TRACT OS-746
TRACT OS-747
TRACT OS-748
TRACT OS-749
TRACT OS-750
TRACT OS-751
TRACT OS-752
TRACT OS-753
TRACT OS-754
TRACT OS-755
TRACT OS-756
TRACT OS-757
TRACT OS-758
TRACT OS-759
TRACT OS-760
TRACT OS-761
TRACT OS-762
TRACT OS-763
TRACT OS-764
TRACT OS-765
TRACT OS-766
TRACT OS-767
TRACT OS-768
TRACT OS-769
TRACT OS-770
TRACT OS-771
TRACT OS-772
TRACT OS-773
TRACT OS-774
TRACT OS-775
TRACT OS-776
TRACT OS-777
TRACT OS-778
TRACT OS-779
TRACT OS-780
TRACT OS-781
TRACT OS-782
TRACT OS-783
TRACT OS-784
TRACT OS-785
TRACT OS-786
TRACT OS-787
TRACT OS-788
TRACT OS-789
TRACT OS-790
TRACT OS-791
TRACT OS-792
TRACT OS-793
TRACT OS-794
TRACT OS-795
TRACT OS-796
TRACT OS-797
TRACT OS-798
TRACT OS-799
TRACT OS-800
TRACT OS-801
TRACT OS-802
TRACT OS-803
TRACT OS-804
TRACT OS-805
TRACT OS-806
TRACT OS-807
TRACT OS-808
TRACT OS-809
TRACT OS-810
TRACT OS-811
TRACT OS-812
TRACT OS-813
TRACT OS-814
TRACT OS-815
TRACT OS-816
TRACT OS-817
TRACT OS-818
TRACT OS-819
TRACT OS-820
TRACT OS-821
TRACT OS-822
TRACT OS-823
TRACT OS-824
TRACT OS-825
TRACT OS-826
TRACT OS-827
TRACT OS-828
TRACT OS-829
TRACT OS-830
TRACT OS-831
TRACT OS-832
TRACT OS-833
TRACT OS-834
TRACT OS-835
TRACT OS-836
TRACT OS-837
TRACT OS-838
TRACT OS-839
TRACT OS-840
TRACT OS-841
TRACT OS-842
TRACT OS-843
TRACT OS-844
TRACT OS-845
TRACT OS-846
TRACT OS-847
TRACT OS-848
TRACT OS-849
TRACT OS-850
TRACT OS-851
TRACT OS-852
TRACT OS-853
TRACT OS-854
TRACT OS-855
TRACT OS-856
TRACT OS-857
TRACT OS-858
TRACT OS-859
TRACT OS-860
TRACT OS-861
TRACT OS-862
TRACT OS-863
TRACT OS-864
TRACT OS-865
TRACT OS-866
TRACT OS-867
TRACT OS-868
TRACT OS-869
TRACT OS-870
TRACT OS-871
TRACT OS-872
TRACT OS-873
TRACT OS-874
TRACT OS-875
TRACT OS-876
TRACT OS-877
TRACT OS-878
TRACT OS-879
TRACT OS-880
TRACT OS-881
TRACT OS-882
TRACT OS-883
TRACT OS-884
TRACT OS-885
TRACT OS-886
TRACT OS-887
TRACT OS-888
TRACT OS-889
TRACT OS-890
TRACT OS-891
TRACT OS-892
TRACT OS-893
TRACT OS-894
TRACT OS-895
TRACT OS-896
TRACT OS-897
TRACT OS-898
TRACT OS-899
TRACT OS-900
TRACT OS-901
TRACT OS-902
TRACT OS-903
TRACT OS-904
TRACT OS-905
TRACT OS-906
TRACT OS-907
TRACT OS-908
TRACT OS-909
TRACT OS-910
TRACT OS-911
TRACT OS-912
TRACT OS-913
TRACT OS-914
TRACT OS-915
TRACT OS-916
TRACT OS-917
TRACT OS-918
TRACT OS-919
TRACT OS-920
TRACT OS-921
TRACT OS-922
TRACT OS-923
TRACT OS-924
TRACT OS-925
TRACT OS-926
TRACT OS-927
TRACT OS-928
TRACT OS-929
TRACT OS-930
TRACT OS-931
TRACT OS-932
TRACT OS-933
TRACT OS-934
TRACT OS-935
TRACT OS-936
TRACT OS-937
TRACT OS-938
TRACT OS-939
TRACT OS-940
TRACT OS-941
TRACT OS-942
TRACT OS-943
TRACT OS-944
TRACT OS-945
TRACT OS-946
TRACT OS-947
TRACT OS-948
TRACT OS-949
TRACT OS-950
TRACT OS-951
TRACT OS-952
TRACT OS-953
TRACT OS-954
TRACT OS-955
TRACT OS-956
TRACT OS-957
TRACT OS-958
TRACT OS-959
TRACT OS-960
TRACT OS-961
TRACT OS-962
TRACT OS-963
TRACT OS-964
TRACT OS-965
TRACT OS-966
TRACT OS-967
TRACT OS-968
TRACT OS-969
TRACT OS-970
TRACT OS-971
TRACT OS-972
TRACT OS-973
TRACT OS-974
TRACT OS-975
TRACT OS-976
TRACT OS-977
TRACT OS-978
TRACT OS-979
TRACT OS-980
TRACT OS-981
TRACT OS-982
TRACT OS-983
TRACT OS-984
TRACT OS-985
TRACT OS-986
TRACT OS-987
TRACT OS-988
TRACT OS-989
TRACT OS-990
TRACT OS-991
TRACT OS-992
TRACT OS-993
TRACT OS-994
TRACT OS-995
TRACT OS-996
TRACT OS-997
TRACT OS-998
TRACT OS-999
TRACT OS-1000
TRACT OS-1001
TRACT OS-1002
TRACT OS-1003
TRACT OS-1004
TRACT OS-1005
TRACT OS-1006
TRACT OS-1007
TRACT OS-1008
TRACT OS-1009
TRACT OS-1010
TRACT OS-1011
TRACT OS-1012
TRACT OS-1013
TRACT OS-1014
TRACT OS-1015
TRACT OS-1016
TRACT OS-1017
TRACT OS-1018
TRACT OS-1019
TRACT OS-1020
TRACT OS-1021
TRACT OS-1022
TRACT OS-1023
TRACT OS-1024
TRACT OS-1025
TRACT OS-1026
TRACT OS-1027
TRACT OS-1028
TRACT OS-1029
TRACT OS-1030
TRACT OS-1031
TRACT OS-1032
TRACT OS-1033
TRACT OS-1034
TRACT OS-1035
TRACT OS-1036
TRACT OS-1037
TRACT OS-1038
TRACT OS-1039
TRACT OS-1040
TRACT OS-1041
TRACT OS-1042
TRACT OS-1043
TRACT OS-1044
TRACT OS-1045
TRACT OS-1046
TRACT OS-1047
TRACT OS-1048
TRACT OS-1049
TRACT OS-1050
TRACT OS-1051
TRACT OS-1052
TRACT OS-1053
TRACT OS-1054
TRACT OS-1055
TRACT OS-1056
TRACT OS-1057
TRACT OS-1058
TRACT OS-1059
TRACT OS-1060
TRACT OS-1061
TRACT OS-1062
TRACT OS-1063
TRACT OS-1064
TRACT OS-1065
TRACT OS-1066
TRACT OS-1067
TRACT OS-1068
TRACT OS-1069
TRACT OS-1070
TRACT OS-1071
TRACT OS-1072
TRACT OS-1073
TRACT OS-1074
TRACT OS-1075
TRACT OS-1076
TRACT OS-1077
TRACT OS-1078
TRACT OS-1079
TRACT OS-1080
TRACT OS-1081
TRACT OS-1082
TRACT OS-1083
TRACT OS-1084
TRACT OS-1085
TRACT OS-1086
TRACT OS-1087
TRACT OS-1088
TRACT OS-1089
TRACT OS-1090
TRACT OS-1091
TRACT OS-1092
TRACT OS-1093
TRACT OS-1094
TRACT OS-1095
TRACT OS-1096
TRACT OS-1097
TRACT OS-1098
TRACT OS-1099
TRACT OS-1100
TRACT OS-1101
TRACT OS-1102
TRACT OS-1103
TRACT OS-1104
TRACT OS-1105
TRACT OS-1106
TRACT OS-1107
TRACT OS-1108
TRACT OS-1109
TRACT OS-1110
TRACT OS-1111
TRACT OS-1112
TRACT OS-1113
TRACT OS-1114
TRACT OS-1115
TRACT OS-1116
TRACT OS-1117
TRACT OS-1118
TRACT OS-1119
TRACT OS-1120
TRACT OS-1121
TRACT OS-1122
TRACT OS-1123
TRACT OS-1124
TRACT OS-1125
TRACT OS-1126
TRACT OS-1127
TRACT OS-1128
TRACT OS-1129
TRACT OS-1130
TRACT OS-1131
TRACT OS-1132
TRACT OS-1133
TRACT OS-1134
TRACT OS-1135
TRACT OS-1136
TRACT OS-1137
TRACT OS-1138
TRACT OS-1139
TRACT OS-1140
TRACT OS-1141
TRACT OS-1142
TRACT OS-1143
TRACT OS-1144
TRACT OS-1145
TRACT OS-1146
TRACT OS-1147
TRACT OS-1148
TRACT OS-1149
TRACT OS-1150
TRACT OS-1151
TRACT OS-1152
TRACT OS-1153
TRACT OS-1154
TRACT OS-1155
TRACT OS-1156
TRACT OS-1157
TRACT OS-1158
TRACT OS-1159
TRACT OS-1160
TRACT OS-1161
TRACT OS-1162
TRACT OS-1163
TRACT OS-1164
TRACT OS-1165
TRACT OS-1166
TRACT OS-1167
TRACT OS-1168
TRACT OS-1169
TRACT OS-1170
TRACT OS-1171
TRACT OS-1172
TRACT OS-1173
TRACT OS-1174
TRACT OS-1175
TRACT OS-1176
TRACT OS-1177
TRACT OS-1178
TRACT OS-1179
TRACT OS-1180
TRACT OS-1181
TRACT OS-1182
TRACT OS-1183
TRACT OS-1184
TRACT OS-1185
TRACT OS-1186
TRACT OS-1187
TRACT OS-1188
TRACT OS-1189
TRACT OS-1190
TRACT OS-1191
TRACT OS-1192
TRACT OS-1193
TRACT OS-1194
TRACT OS-1195
TRACT OS-1196
TRACT OS-1197
TRACT OS-1198
TRACT OS-1199
TRACT OS-1200
TRACT OS-1201
TRACT OS-1202
TRACT OS-1203
TRACT OS-1204
TRACT OS-1205
TRACT OS-1206
TRACT OS-1207
TRACT OS-1208
TRACT OS-1209
TRACT OS-1210
TRACT OS-1211
TRACT OS-1212
TRACT OS-1213
TRACT OS-1214
TRACT OS-1215
TRACT OS-1216
TRACT OS-1217
TRACT OS-1218
TRACT OS-1219
TRACT OS-1220
TRACT OS-1221
TRACT OS-1222
TRACT OS-1223
TRACT OS-1224
TRACT OS-1225
TRACT OS-1226
TRACT OS-1227
TRACT OS-1228
TRACT OS-1229
TRACT OS-1230
TRACT OS-1231
TRACT OS-1232
TRACT OS-1233
TRACT OS-1234
TRACT OS-1235
TRACT OS-1236
TRACT OS-1237
TRACT OS-1238
TRACT OS-1239
TRACT OS-1240
TRACT OS-1241
TRACT OS-1242
TRACT OS-1243
TRACT OS-1244
TRACT OS-1245
TRACT OS-1246
TRACT OS-1247
TRACT OS-1248
TRACT OS-1249
TRACT OS-1250
TRACT OS-1251
TRACT OS-1252
TRACT OS-1253
TRACT OS-1254
TRACT OS-1255
TRACT OS-1256
TRACT OS-1257
TRACT OS-1258
TRACT OS-1259
TRACT OS-1260
TRACT OS-1261
TRACT OS-1262
TRACT OS-1263
TRACT OS-1264
TRACT OS-1265
TRACT OS-1266
TRACT OS-1267
TRACT OS-1268
TRACT OS-1269
TRACT OS-1270
TRACT OS-1271
TRACT OS-1272
TRACT OS-1273
TRACT OS-1274
TRACT OS-1275
TRACT OS-1276
TRACT OS-1277
TRACT OS-1278
TRACT OS-1279
TRACT OS-1280
TRACT OS-1281
TRACT OS-1282
TRACT OS-1283
TRACT OS-1284
TRACT OS-1285
TRACT OS-1286
TRACT OS-1287
TRACT OS-1288
TRACT OS-1289
TRACT OS-1290
TRACT OS-1291
TRACT OS-1292
TRACT OS-1293
TRACT OS-1294
TRACT OS-1295
TRACT OS-1296
TRACT OS-1297
TRACT OS-1298
TRACT OS-1299
TRACT OS-1300
TRACT OS-1301
TRACT OS-1302
TRACT OS-1303
TRACT OS-1304
TRACT OS-1305
TRACT OS-1306
TRACT OS-1307
TRACT OS-1308
TRACT OS-1309
TRACT OS-1310
TRACT OS-1311
TRACT OS-1312
TRACT OS-1313
TRACT OS-1314
TRACT OS-1315
TRACT OS-1316
TRACT OS-1317
TRACT OS-1318
TRACT OS-1319
TRACT OS-1320
TRACT OS-1321
TRACT OS-1322
TRACT OS-1323
TRACT OS-1324
TRACT OS-1325
TRACT OS-1326
TRACT OS-1327
TRACT OS-1328
TRACT OS-1329
TRACT OS-1330
TRACT OS-1331
TRACT OS-1332
TRACT OS-1333
TRACT OS-1334
TRACT OS-1335
TRACT OS-1336
TRACT OS-1337
TRACT OS-1338
TRACT OS-1339
TRACT OS-1340
TRACT OS-1341
TRACT OS-1342
TRACT OS-1343
TRACT OS-1344
TRACT OS-1345
TRACT OS-1346
TRACT OS-1347
TRACT OS-1348
TRACT OS-1349
TRACT OS-1350
TRACT OS-1351
TRACT OS-1352
TRACT OS-1353
TRACT OS-1354
TRACT OS-1355
TRACT OS-1356
TRACT OS-1357
TRACT OS-1358
TRACT OS-1359
TRACT OS-1360
TRACT OS-1361
TRACT OS-1362
TRACT OS-1363
TRACT OS-1364
TRACT OS-1365
TRACT OS-1366
TRACT OS-1367
TRACT OS-1368
TRACT OS-1369
TRACT OS-1370
TRACT OS-1371
TRACT OS-1372
TRACT OS-1373
TRACT OS-1374
TRACT OS-1375
TRACT OS-1376
TRACT OS-1377
TRACT OS-1378
TRACT OS-1379
TRACT OS-1380
TRACT OS-1381
TRACT OS-1382
TRACT OS-1383
TRACT OS-1384
TRACT OS-1385
TRACT OS-1386
TRACT OS-1387
TRACT OS-1388
TRACT OS-1389
TRACT OS-1390
TRACT OS-1391
TRACT OS-1392
TRACT OS-1393
TRACT OS-1394
TRACT OS-1395
TRACT OS-1396
TRACT OS-1397
TRACT OS-1398
TRACT OS-1399
TRACT OS-1400
TRACT OS-1401
TRACT OS-1402
TRACT OS-1403
TRACT OS-1404
TRACT OS-1405
TRACT OS-1406
TRACT OS-1407
TRACT OS-1408
TRACT OS-1409
TRACT OS-1410
TRACT OS-1411
TRACT OS-1412
TRACT OS-1413
TRACT OS-1414
TRACT OS-1415
TRACT OS-1416
TRACT OS-1417
TRACT OS-1418
TRACT OS-1419
TRACT OS-1420
TRACT OS-1421
TRACT OS-1422
TRACT OS-1423
TRACT OS-1424
TRACT OS-1425
TRACT OS-1426
TRACT OS-1427
TRACT OS-1428
TRACT OS-1429
TRACT OS-1430
TRACT OS-1431
TRACT OS-1432
TRACT OS-1433
TRACT OS-1434
TRACT OS-1435
TRACT OS-1436
TRACT OS-1437
TRACT OS-1438
TRACT OS-1439
TRACT OS-1440
TRACT OS-1441
TRACT OS-1442
TRACT OS-1443
TRACT OS-1444
TRACT OS-1445
TRACT OS-1446
TRACT OS-1447
TRACT OS-1448
TRACT OS-1449
TRACT OS-1450
TRACT OS-1451
TRACT OS-1452
TRACT OS-1453
TRACT OS-1454
TRACT OS-1455
TRACT OS-1456
TRACT OS-1457
TRACT OS-1458
TRACT OS-1459
TRACT OS-1460
TRACT OS-1461
TRACT OS-1462
TRACT OS-1463
TRACT OS-1464
TRACT OS-1465
TRACT OS-1466
TRACT OS-1467
TRACT OS-1468
TRACT OS-1469
TRACT OS-1470
TRACT OS-1471
TRACT OS-1472
TRACT OS-1473
TRACT OS-1474
TRACT OS-1475
TRACT OS-1476
TRACT OS-1477
TRACT OS-1478
TRACT OS-1479
TRACT OS-1480
TRACT OS-1481
TRACT OS-1482
TRACT OS-1483
TRACT OS-1484
TRACT OS-1485
TRACT OS-1486
TRACT OS-1487
TRACT OS-1488
TRACT OS-1489
TRACT OS-1490
TRACT OS-1491
TRACT OS-1492
TRACT OS-1493
TRACT OS-1494
TRACT OS-1495
TRACT OS-1496
TRACT OS-1497
TRACT OS-1498
TRACT OS-1499
TRACT OS-1500
TRACT OS-1501
TRACT OS-1502
TRACT OS-1503
TRACT OS-1504
TRACT OS-1505
TRACT OS-1506
TRACT OS-1507
TRACT OS-1508
TRACT OS-1509
TRACT OS-1510
TRACT OS-1511
TRACT OS-1512
TRACT OS-1513
TRACT OS-1514
TRACT OS-1515
TRACT OS-1516
TRACT OS-1517
TRACT OS-1518
TRACT OS-1519
TRACT OS-1520
TRACT OS-1521
TRACT OS-1522
TRACT OS-1523
TRACT OS-1524
TRACT OS-1525
TRACT OS-1526
TRACT OS-1527
TRACT OS-1528
TRACT OS-1529
TRACT OS-1530
TRACT OS-1531
TRACT OS-1532
TRACT OS-1533
TRACT OS-1534
TRACT OS-1535
TRACT OS-1536
TRACT OS-1537
TRACT OS-1538
TRACT OS-1539
TRACT OS-1540
TRACT OS-1541
TRACT OS-1542
TRACT OS-1543
TRACT OS-1544
TRACT OS-1545
TRACT OS-1546
TRACT OS-1547
TRACT OS-1548
TRACT OS-1549
TRACT OS-1550
TRACT OS-1551
TRACT OS-1552
TRACT OS-1553
TRACT OS-1554
TRACT OS-1555
TRACT OS-1556
TRACT OS-1557
TRACT OS-1558
TRACT OS-1559
TRACT OS-1560
TRACT OS-1561
TRACT OS-1562
TRACT OS-1563
TRACT OS-1564
TRACT OS-1565
TRACT OS-1566
TRACT OS-1567
TRACT OS-1568
TRACT OS-1569
TRACT OS-1570
TRACT OS-1571
TRACT OS-1572
TRACT OS-1573
TRACT OS-1574
TRACT OS-1575
TRACT OS-1576
TRACT OS-1577
TRACT OS-1578
TRACT OS-1579
TRACT OS-1580
TRACT OS-1581
TRACT OS-1582
TRACT OS-1583
TRACT OS-1584
TRACT OS-1585
TRACT OS-1586
TRACT OS-1587
TRACT OS-1588
TRACT OS-1589
TRACT OS-1590
TRACT OS-1591
TRACT OS-1592
TRACT OS-1593
TRACT OS-1594
TRACT OS-1595
TRACT OS-1596
TRACT OS-1597
TRACT OS-1598
TRACT OS-1599
TRACT OS-1600
TRACT OS-1601
TRACT OS-1602
TRACT OS-1603
TRACT OS-1604
TRACT OS-1605
TRACT OS-1606
TRACT OS-1607
TRACT OS-1608
TRACT OS-1609
TRACT OS-1610
TRACT OS-1611
TRACT OS-1612
TRACT OS-1613
TRACT OS-1614
TRACT OS-1615
TRACT OS-1616
TRACT OS-1617
TRACT OS-1618
TRACT OS-1619
TRACT OS-1620
TRACT OS-1621
TRACT OS-1622
TRACT OS-1623
TRACT OS-1624
TRACT OS-1625
TRACT OS-1626
TRACT OS-1627
TRACT OS-1628
TRACT OS-1629
TRACT OS-1630
TRACT OS-1631
TRACT OS-1632
TRACT OS-1633
TR



FUGITIVE DUST CONTROL

THE CONTRACTOR IS RESPONSIBLE TO CONTROL FUGITIVE DUST AND TO INCORPORATE THE FOLLOWING:

1. ALL UNPAVED ROADS AND OTHER DISTURBED AREAS ON SITE SHALL BE WATERED TO MINIMIZE FUGITIVE DUST.
2. HAUL ROADS SHALL BE TREATED WITH MAGNESIUM CHLORIDE IF WATER IS NOT CONTROLLING THE DUST.
3. ALL DISTURBED SURFACE AREAS SHALL BE REVEGETATED OR SURFACED PER THE LANDSCAPE PLAN AS SOON AS POSSIBLE.
4. MUD AND DIRT CARRYOUT ONTO PAVED SURFACES SHALL BE PREVENTED. ANY MUD AND DIRT CARRYOUT ONTO PAVED SURFACES SHALL BE CLEANED UP DAILY.

CONSTRUCTION SEQUENCE OF EROSION/SEDIMENT CONTROL MEASURES

BEFORE COMMENCING GRADING OR CONSTRUCTION

1. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES AT ALL POINTS OF INGRESS AND EGRESS.
2. CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO ASSURE THAT NO SEDIMENT LEAVES THE SITE.
3. CONSTRUCT EARTH BERM/SWALES, SILT FENCE, STONE OUTLET STRUCTURES AND SEDIMENT TRAPS. FUTURE DETENTION PONDS SHALL ACT AS SEDIMENT TRAP DURING CONSTRUCTION. PROVIDE TEMPORARY SEDIMENT TRAP RISER MODIFICATION FOR SEDIMENT CONTROL TO PREVENT SEDIMENT FROM DISCHARGING FROM FUTURE DETENTION PONDS WHEN PERMANENT POND RISERS ARE INSTALLED. CONTRACTOR TO FLUSH ALL STORM SEWER LINES FLOWING TO FUTURE DETENTION PONDS/SEDIMENT TRAPS BEFORE REMOVING TEMPORARY SEDIMENT TRAP RISER MODIFICATION.
4. BEGIN EXCAVATION AND CONSTRUCTION.
5. INSTALL EROSION CONTROL MEASURES (LANDLOK TRM FABRIC, RIP RAP AND WATTLES) AFTER DITCHES AND SWALES HAVE BEEN CONSTRUCTED AND TOPSOIL AND SEED HAVE BEEN PLACED.
6. TOPSOIL AND REVEGETATE ALL DISTURBED AREAS WITH APPROVED SEED MIX.

GENERAL NOTES FOR SEDIMENT CONTROL

1. INSTALL AND MAINTAIN SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THESE PLANS AND AS NEEDED TO PREVENT SEDIMENT FROM DISCHARGING OFF-SITE.
2. ALL PROPOSED SEDIMENT CONTROL MEASURES ARE TEMPORARY MEASURES UNLESS SPECIFIED OTHERWISE ON PLANS.
3. SEDIMENT CONTROL MEASURES MAY REQUIRE FIELD ADJUSTMENTS AT THE TIME OF CONSTRUCTION TO INSURE THAT THEIR INTENDED PURPOSE IS ACCOMPLISHED.
4. PROVIDE CONTINUOUS INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL MEASURES TO INSURE THAT SEDIMENT CONTROL EFFICIENCY IS OBTAINED UNTIL FINAL STABILIZATION OF SITE HAS TAKEN PLACE.
5. INSTALL SEDIMENT CONTROL MEASURES AT THE ONSET OF GRADING OPERATIONS SO THAT EFFECTIVE SEDIMENT CONTROL CAN BE ACHIEVED DURING THE ENTIRE CONSTRUCTION PERIOD.
6. STABILIZE ALL POINTS OF INGRESS AND EGRESS WITH TOWN OF EAGLE JANUARY 2018 PUBLIC WORKS MANUAL TRACKING PAD DETAIL DURING CONSTRUCTION TO PREVENT TRACKING OF MUD ONTO PUBLIC WAYS.
7. FOR TEMPORARY STOCKPILES APPLY SEED, HYDROMULCH AND TACKIFIER IMMEDIATELY AFTER THEY ARE CONSTRUCTED FOR STABILIZATION. IF EROSION OCCURS AFTER APPLICATION OF THE TACKIFIER, USE EXCELSIOR C2 EROSION CONTROL FABRIC.
8. THE TERM 'REVEGETATION' ON THIS PLAN MEANS THE SUCCESSFUL GERMINATION AND ESTABLISHMENT OF STABLE GRASS COVER FROM A PROPERLY PREPARED SEEDBED CONTAINING THE SPECIFIED AMOUNTS OF FERTILIZER IN ACCORDANCE WITH APPLICABLE 'STANDARDS AND SPECIFICATIONS'. REFER TO LANDSCAPE PLANS FOR SEED MIX, FERTILIZER TYPE, MULCH, TACKIFIER AND APPLICATION RATES.
9. APPROVAL SHALL BE REQUESTED UPON FINAL STABILIZATION OF ALL SITES BEFORE REMOVAL OF SEDIMENT CONTROLS.
10. CONTRACTOR SHALL OBTAIN AND CONFORM TO STORMWATER DISCHARGE PERMIT AND FUGITIVE DUST PLAN AND KEEP STREETS CLEAN AND FREE OF SEDIMENT.

CONTRACTOR IS REPONSIBLE TO REMOVE SEDIMENT CONTROL DEVICES AFTER VEGETATION HAS BEEN ESTABLISHED.

REFER TO LANDSCAPE/ PLANTING PLANS FOR LIMITS AND TYPE OF REVEGETATION.

CONTRACTOR SHALL DEVELOP MEANS AND METHODS TO CONTROL SEDIMENT DURING CONSTRUCTION TO ASSURE THAT NO SEDIMENT IS DISCHARGED OFF-SITE. REMOVAL AND CLEANUP OF ANY SEDIMENT THAT LEAVES THE SITE IS THE RESPONSIBILITY OF THE CONTRACTOR.

SEE CONSTRUCTION MANAGEMENT PLAN FOR STAGING, LAYDOWN, TOPSOIL TREATMENT AND TEMPORARY ACCESS DURING CONSTRUCTION. ELEMENTS OF THE CONSTRUCTION MANAGEMENT PLAN SHOWN ON THESE PLANS IS SCHEMATIC IN NATURE AND SUBJECT TO CHANGE.

PLACE EXCELSIOR C-2 EROSION CONTROL BLANKET OR APPROVED EQUAL SHALL BE PLACED ON AREAS WHERE THERE IS EXCESS EROSION OR REVEGETATION EFFORTS ARE NOT PERFORMING ADEQUATELY.

ONCE THE SITE IS STABILIZED, THE CONTRACTOR WILL BE REQUIRED TO CLEAN OUT THE STORM PIPES AND INLET SUMPS BY FLUSHING THE SYSTEM DOWN TO THE TEMP. SED PONDS. CLEAN OUT THE SEDIMENT FROM THE TEMP. SED PONDS AND HAUL THE SEDIMENT TO THE DISPOSAL SITE (STOCKPILE AREA) BEFORE THEY ARE CONVERTED TO FINAL STORMWATER MANAGEMENT PONDS. FOR STORM PIPES NOT DRAINING TO A POND THERE SHOULD BE A SEDIMENT CONTROL DEVICE (WATTLES) BELOW THE STORM PIPE BEING CLEANED OUT AND THAT SEDIMENT SHOULD BE HAULED TO THE DISPOSAL SITE. TEMPORARY SEDIMENT CONTROL DEVICES (INCLUDING WATTLES AND SILT FENCE) SHALL BE REMOVED ONCE THE SITE IS STABILIZED.

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. WILSON
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

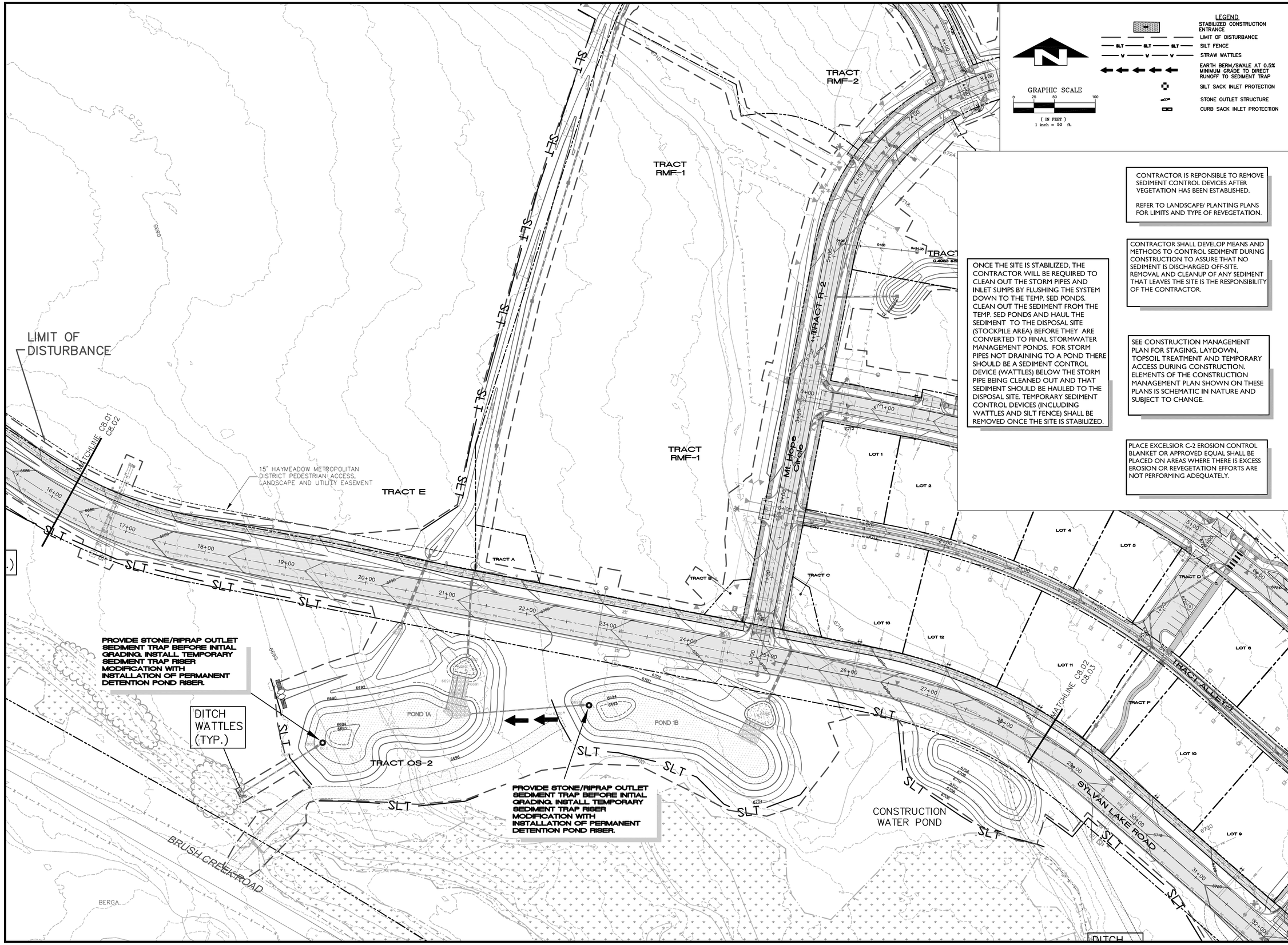
SEDIMENT CONTROL PLAN

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C8.01

O:\Eagle\Haymeadow\ 53480.1 - 2016\dwg\Master\Sediment Control\Phil.dwg, SHEET 8.01 SC 24x36+50, 2/21/2019 8:27:54 AM, Hues



ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS, CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. WINTER
11-8-19
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

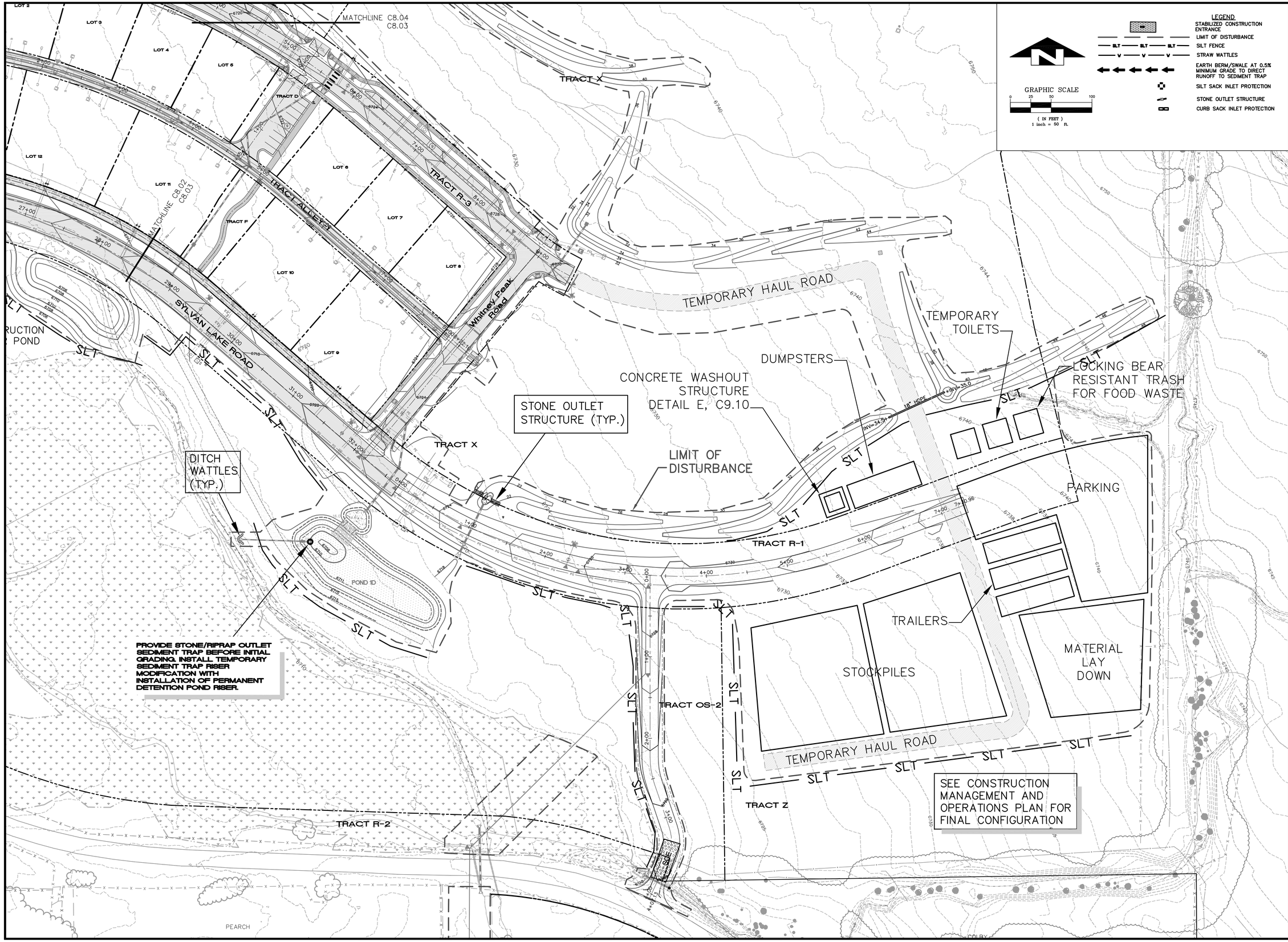
SEDIMENT CONTROL PLAN

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED	MW, RL
DRAWN	RF
CHECKED	MCW
JOB NO.	53480.5
DATE	02/20/2019

SHEET
C8.02

O:\Eagle\Haymeadow- 53480.5 - 2016\Survey\Water\Sediment Control\PH1.dwg, SHEET 8.5X11 SC-2x2x5=50, 2/21/2019 8:58:52 AM, Mark



ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. WILLIAMS
11-8-19
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

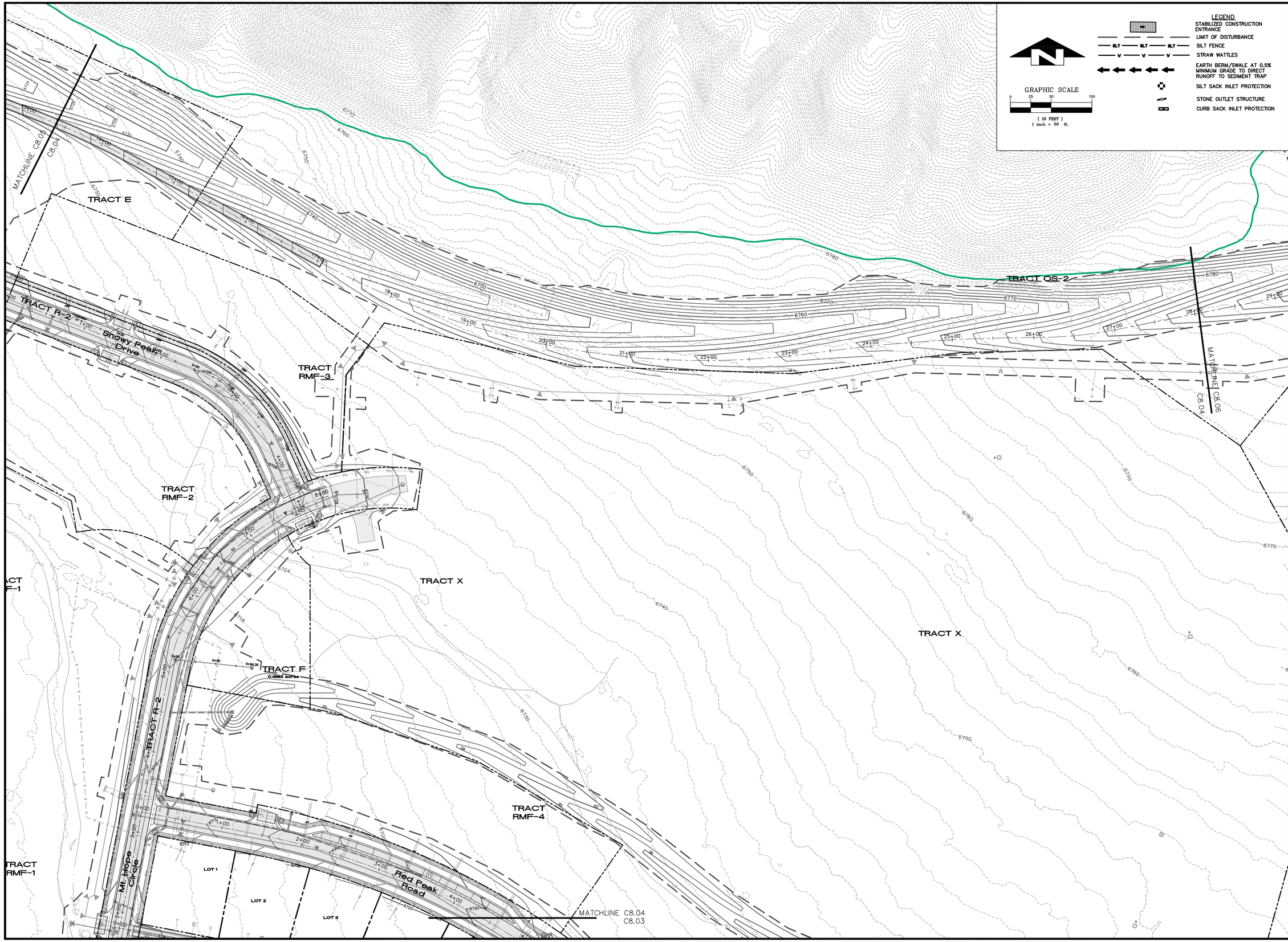
SEDIMENT CONTROL PLAN

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET
C8.03

O:\Eagle\Haymeadow - 53480.5 - 2018\Dwg\Master\Sediment Control\Pln1.dwg, SHEET 8.03 SC, 2/21/2019 8:59:53 AM, Ryan



ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. WILLIAMS
11-8-18
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

SEDIMENT CONTROL PLAN

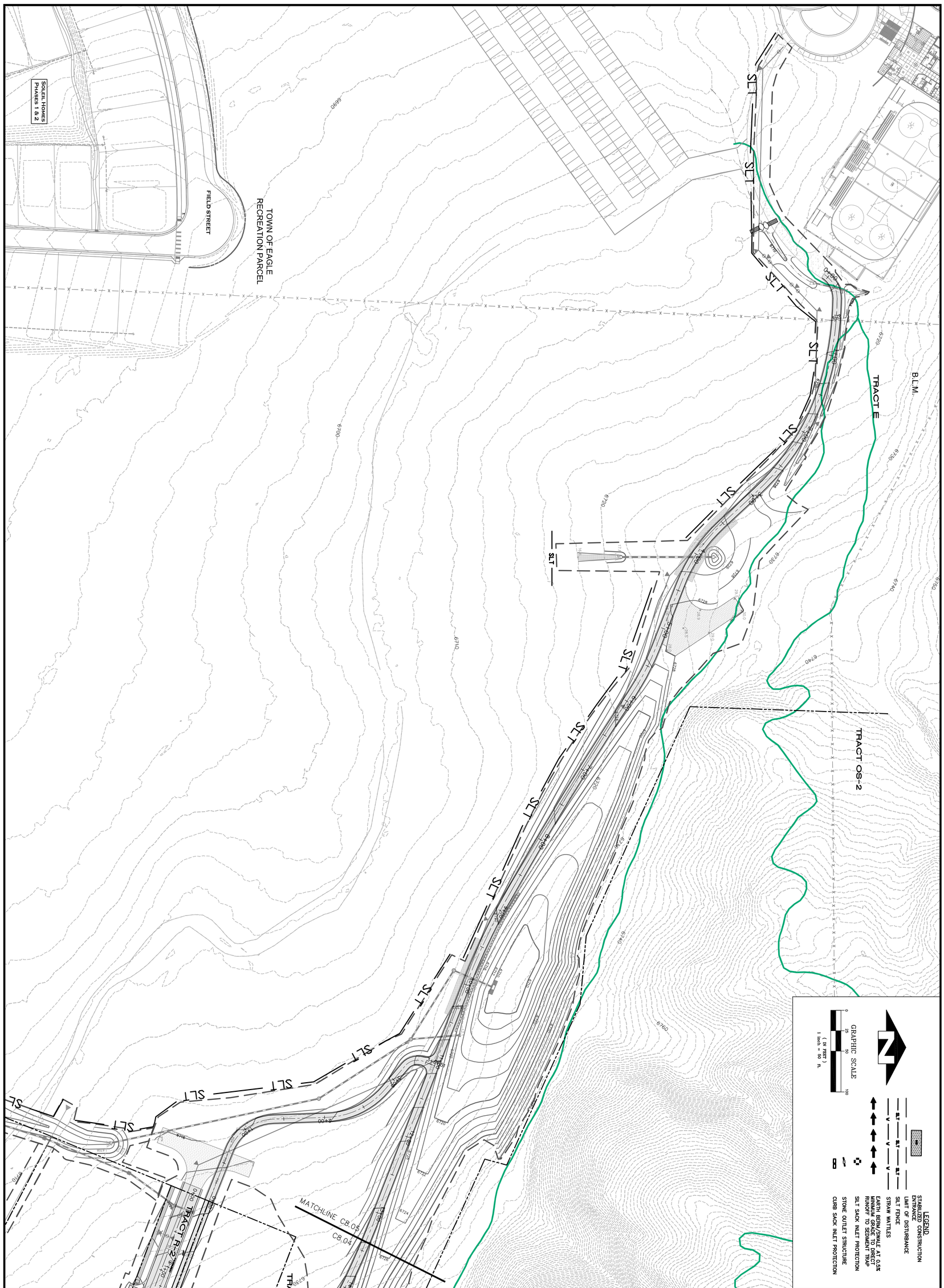
NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED	MW, RL	JOB NO.	53480.5
DRAWN	RF	DATE	02/20/2019
CHECKED	MCW		

SHEET
C8.04

O:\Eagle\Haymeadow- 53480.5 - 2016\dwg\Master\Sediment Control\PH1.dwg, SHEET 8.04 SC 24x36=50, 2/21/2019 9:01:09 AM, Mark

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Sediment Contol-Ph1.dwg, SHEET 8.05 SC 24x36-50, 2/21/2019 9:02:12 AM, Hues



SHEET C8.05

DESIGNED	MW, RL
DRAWN	RF
CHECKED	MCW
JOB NO.	53480.5
DATE	02/20/2019

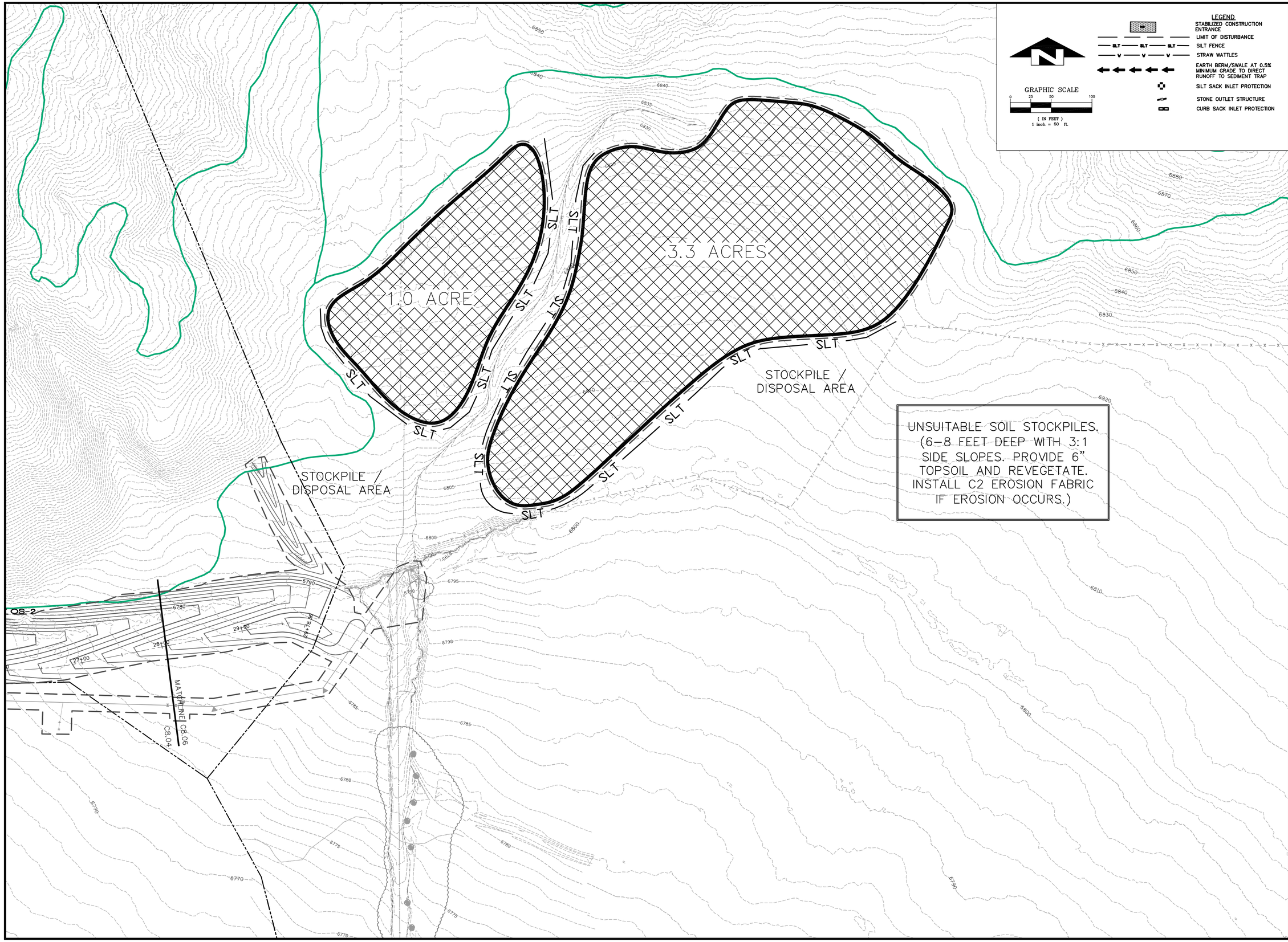
NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

HAYMEADOW FILING 1

SEDIMENT CONTROL PLAN

COLORADO REGISTERED PROFESSIONAL ENGINEER MATTHEW C. WELLS 39886 CIVIL

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS,CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM



ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. WILLIAMS
11-8-18
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

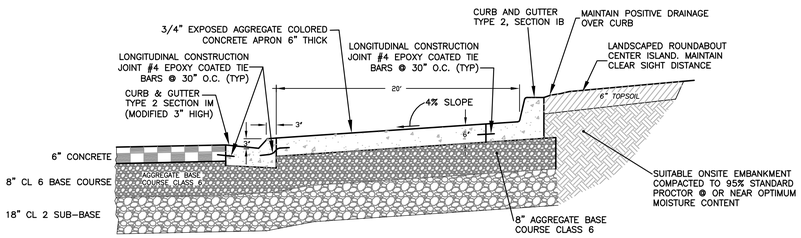
SEDIMENT CONTROL PLAN

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	GB
	02/20/2019	RESPONSE TO COMMENTS	

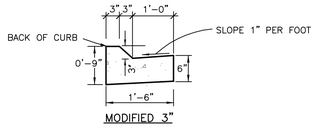
DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C8.06

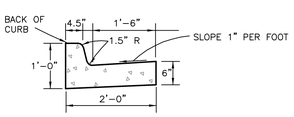
O:\Eagle\Haymeadow 53480.5 2018\Dwg\Master\Sediment Control\Phil.dwg, SHEET 8.06.SC.2ND\50.2/21/2019 9:03:07 AM, Mark



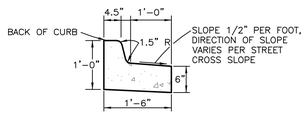
CONCRETE APRON ON ROUNDABOUT
N.T.S.



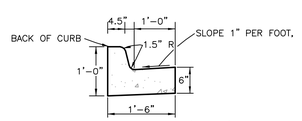
MODIFIED 3"
MEDIAN CURB & GUTTER (CATCH)
TYPE II SECTION IM
N.T.S.



VERTICAL CURB & GUTTER
TYPE II SECTION IIB
N.T.S.

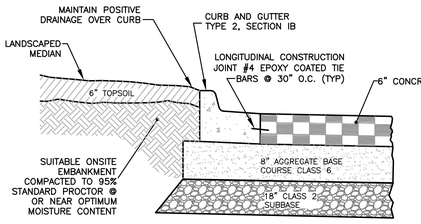


MEDIAN CURB & GUTTER (SPILL)
TYPE II SECTION IB
N.T.S.

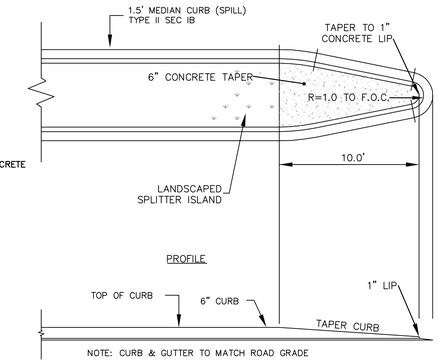


MEDIAN CURB & GUTTER (CATCH)
TYPE II SECTION IB
N.T.S.

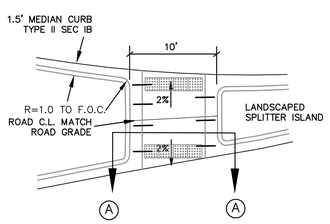
USE CDOT CLASS P CONCRETE FOR ALL AREAS WITHIN ROUNDABOUT

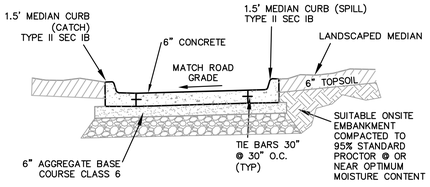


TYPICAL SPLITTER ISLAND SECTION
N.T.S.



SPLITTER ISLAND NOSE TAPER
N.T.S.

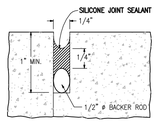




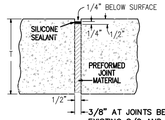
SECTION A-A

TYPICAL SPLITTER ISLAND PEDESTRIAN CUT DETAIL
N.T.S.

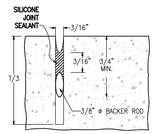
A ROUNDABOUT DETAILS



SEAL AT CONSTRUCTION JOINT

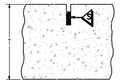


EXPANSION JOINT



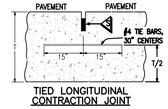
SAWED JOINT

JOINT SEAL DETAILS

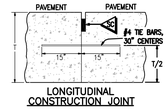


TRANSVERSE CONTRACTION JOINT
(TRANSVERSE WEAKENED PLANE JOINT)

JOINT DETAILS

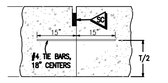


TIED LONGITUDINAL CONTRACTION JOINT



LONGITUDINAL CONSTRUCTION JOINT

NOTE: LONGITUDINAL AND TRANSVERSE TIE-BARS ARE NOT USED IN THE 8" PAVEMENT SECTION. SEE NOTE BELOW IN 8" PAVEMENT DETAIL RE: CUTTING EVERY OTHER REINFORCING BAR.



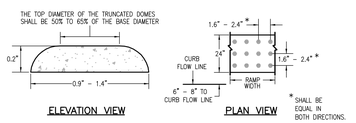
TRANSVERSE CONSTRUCTION JOINT

REINFORCED JOINT DETAILS

N.T.S.

B JOINT DETAILS

NOTE: INSTALL RADIAL DETECTABLE WARNING PADS, DURALAST 25' RADIAL PLATES @ 24" WIDE AND 5' OR 10' LONG WHERE SHOWN ON PLANS

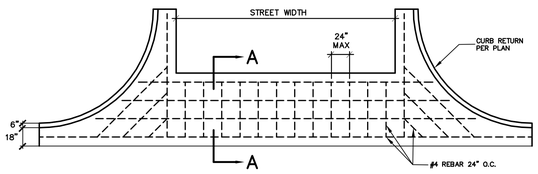


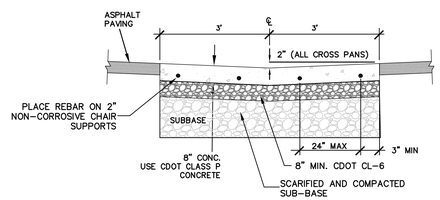
ELEVATION VIEW PLAN VIEW

DOME AND DETECTABLE WARNING DETAILS N.T.S.

N.T.S.

C TRUNCATED DOME DETAIL





SECTION A-A

NOTES:

1. STEEL REINFORCEMENT IS #4 GRADE 40 REBAR PLACED A MAXIMUM OF 24" O.C.
2. REBAR SPLICES MUST MAINTAIN A 12" MINIMUM OVERLAP.
3. BASE SHALL BE EITHER 3/4" CRUSHED SCREENED ROCK OR ABC CL-6 COMPACTED TO 95% OF MAXIMUM MODIFIED PROCTOR DENSITY WITHIN 2% OF OPTIMUM MOISTURE AS DEFINED BY ASTM 1557 METHOD "C".
4. SUB-BASE MUST BE SCARIFIED AND RECOMPACTED AND PASS A PROOF ROLLING BY A FULLY LOADED TANDEM AXLE DUMP TRUCK. PROOF ROLLING MUST BE WITNESSED AND DOCUMENTED BY ENGINEERING DEPARTMENT STAFF.
5. CONCRETE MUST CONFORM TO CDOT CLASS P (MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4500 PSI), 80% OF COMPRESSIVE STRENGTH MUST BE ACHIEVED IN THE FIRST 7 DAYS.

D CONCRETE CROSS PAN DETAIL

SIGNAGE AND SIGN POSTS SHALL CONFORM TO TOWN OF EAGLE PUBLIC WORKS MANUAL SECTION 3.03. & 2009 MUTCD WITH REVISIONS 1 AND 2, MAY 2012.

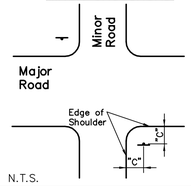
GROUND SIGN PLACEMENT & HEIGHT PER CDOT STANDARD S-614-1.

General Notes:

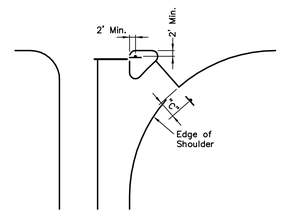
1. THE ENGINEER SHALL ESTABLISH GRADES AND LOCATIONS FOR ALL SIGNS POST IN ACCORDANCE WITH DETAILS SHOWN ON PLANS.
2. SPECIAL CARE SHALL BE TAKEN IN SIGN LOCATION TO ENSURE AN UNOBSTRUCTED VIEW OF EACH SIGN
3. MINIMUM LATERAL PLACEMENT IS MEASURED FROM FACE OF CURB OR FROM ANY SURFACE PREPARED FOR NORMAL OR EMERGENCY TRAVEL OF VEHICLES.
4. NORMAL LATERAL PLACEMENT IS MEASURED FROM THE EDGE OF THE TRAVEL LANE.
5. IN URBAN AREAS A LATERAL CLEARANCE OF 1' FROM THE CURB FACE IS PERMISSIBLE WHERE SIDEWALK WIDTH IS LIMITED OR WHERE EXISTING POLES ARE CLOSE TO THE CURB.
6. A MINIMUM POST LENGTH SHALL BE MAINTAINED FROM BOTTOM OF SIGN PANEL TO THE GROUND OR THE TOP OF FOOTING.
7. "EDUCATIONAL PLAQUES" FOR SYMBOL SIGNS WILL NOT BE CONSIDERED WHEN DETERMINING VERTICAL PLACEMENT.
8. WHEN LATERAL PLACEMENT IS 30' OR MORE FOR SIGNS WITHOUT A SUPPLEMENTAL PANEL, VERTICAL PLACEMENT "D" MAY BE REDUCED TO 5'. WHEN LATERAL PLACEMENT IS 30' OR MORE FOR SIGNS WITH A SUPPLEMENTAL PANEL, VERTICAL PLACEMENT "F" DOES NOT APPLY - USE ONLY VERTICAL PLACEMENT "H".
9. NORMAL ANGULAR PLACEMENT IS 0°. SIGNS CLOSER THAN 30' SHOULD BE TURNED SLIGHTLY AWAY TO MINIMIZE SPECULAR REFLECTION. SIGNS PLACED 30' OR MORE SHOULD BE GENERALLY BE TURNED TOWARD THE ROAD.
10. THE EXIT PANEL IS MOUNTED ON THE RIGHT HAND SIDE FOR RIGHT HAND EXITS AND THE LEFT SIDE FOR LEFT HAND EXITS.

	LATERAL PLACEMENT	
KEY	ALL CLASSES OF STREETS AND HIGHWAYS	
	MINIMUM	NORMAL
A	2'-0" & Note No. 4	12'-0" PLUS CURB
B	2'-0" & Note No. 4	30'-0" OR MORE INCLUDES CURB
C	2'-0" & Note No. 4	6'-0" PLUS EDGE OF 6'+ WIDE SHOULDER. IF NONE, 15' FROM EDGE OF TRAVEL LANE

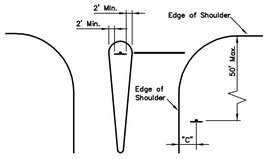
MINOR CROSSROAD



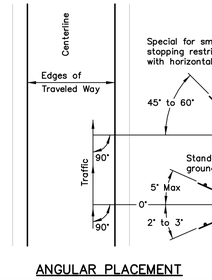
N.T.S.



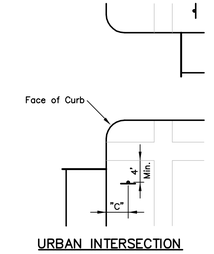
CHANNELIZED INTERSECTION



WIDE THROAT INTERSECTION

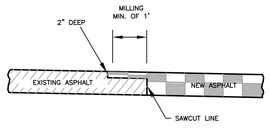


ANGULAR PLACEMENT



URBAN INTERSECTION

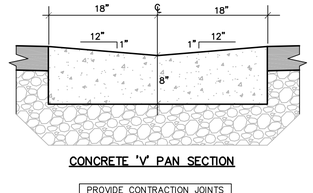
E SIGN LOCATION DETAILS



SHEER STEP (MILLING)
N.T.S.

N.T.S.

F SHEER STEP



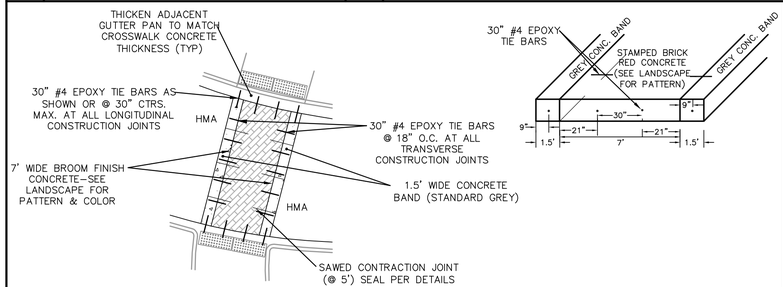
CONCRETE 'V' PAN SECTION

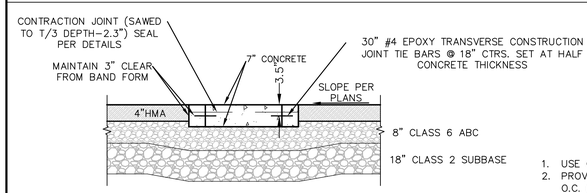
PROVIDE CONTRACTION JOINTS EVERY 10' (MAX)

GENERAL NOTES

1. USE CDOT CLASS P CONCRETE
2. PLACE AND COMPACT 8" (MINIMUM) CLASS 6 ROAD BASE BEDDING
3. PLACE AND COMPACT 10" CLASS 2 SUBBASE WHEN IN PUBLIC ROAD ROW.

G 3 FT CONCRETE PAN DETAIL





SECTION

1. USE CDOT CLASS P CONCRETE
2. PROVIDE CONTRACTION JOINTS EVERY 5' O.C. (BANDS & SLAB JOINTS SHALL MATCH)

H CONCRETE CROSSWALK DETAIL

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED MATTHEW C. LEE 39865 PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

ROAD & GRADING DETAILS

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED	MW, RL
DRAWN	RF
CHECKED	MCW
JOB NO.	53480.5
DATE	02/20/2019

SHEET C9.01

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Details-Ph1.dwg, 2/19/2019 9:12:11 AM, Lee

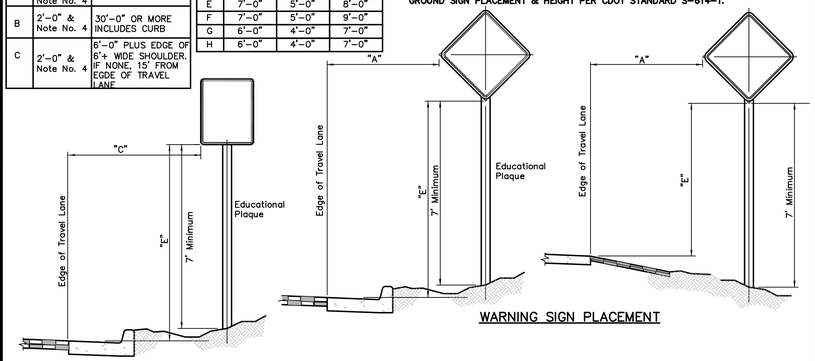
LATERAL PLACEMENT		
KEY	ALL CLASSES OF STREETS AND HIGHWAYS	
	MINIMUM	NORMAL
A	2'–0" & Note No. 4	12'–0" PLUS CURB
B	2'–0" & Note No. 4	30'–0" OR MORE INCLUDES CURB
C	2'–0" & Note No. 4	6'–0" PLUS EDGE OF 6'+ WIDE SHOULDER. IF NONE, 15' FROM EGDE OF TRAVEL LANE

VERTICAL PLACEMENT (MINIMUM)			
KEY	CONVENTIONAL STREETS AND HIGHWAYS		
	URBAN	RURAL	MAXIMUM
D	7'–0"	5'–0"	8–0"
E	7'–0"	5'–0"	8'–0"
F	7'–0"	5'–0"	9'–0"
G	6'–0"	4'–0"	7'–0"
H	6'–0"	4'–0"	7'–0"

SEE GENERAL NOTES FOR SIGN LOCATION DETAILS.

SIGNAGE AND SIGN POSTS SHALL CONFORM TO TOWN OF EAGLE PUBLIC WORKS MANUAL SECTION 3.03. & 2009 MUTCD WITH REVISIONS 1 AND 2, MAY 2012.

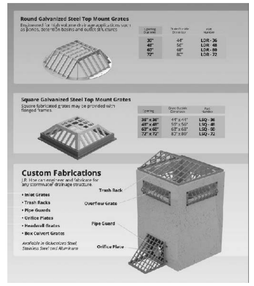
GROUND SIGN PLACEMENT & HEIGHT PER CDOT STANDARD S–614–1.



WARNING SIGN PLACEMENT

N.T.S. REGULATORY SIGN PLACEMENT

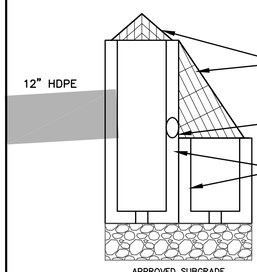
A SIGN PLACEMENT



N.T.S.

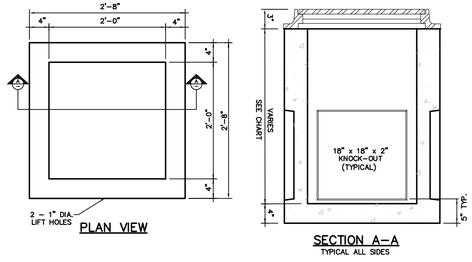
PROVIDE REMOVABLE GALVANIZED STEEL TRASH RACK AND PIPE GUARD (NO OVERFLOW GRATE) FOR RISERS IN PONDS 1A,1B and 1D.

E TRASH RACK



SEE PLAN FOR POND ORIFICE SIZES AND ELEVATIONS.
SEE DETAIL BELOW FOR DEBRIS SWALE OUTLET STRUCTURE PIPE SIZE.
PROVIDE 2" WEEP HOLE IN BOTTOM OF BOTH AREA INLET SUMPS.

F POND 1A, 1B, 1D RISER

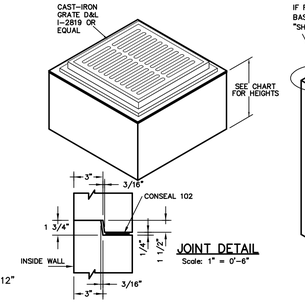


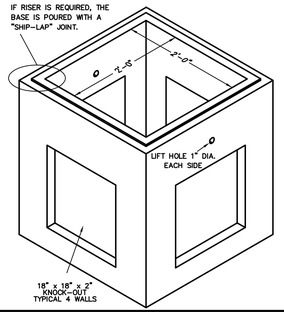
N.T.S.

RISER NUMBER	HT.	WT.
NO. 0200702	0'–2"	77
NO. 0200704	0'–4"	154
NO. 0200706	0'–6"	233
NO. 0200710	1'–0"	467
NO. 0200720	1'–6"	700
NO. 0200730	2'–0"	933
NO. 0200740	2'–6"	1,167
NO. 0200750	3'–0"	1,400
NO. 0200760	4'–0"	1,867

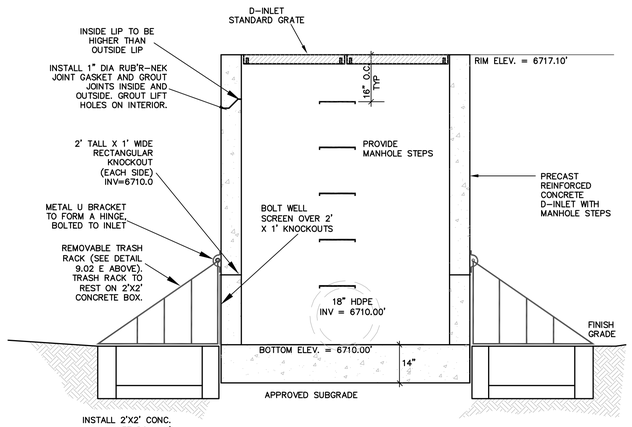
BASE NUMBER	HT.	WT.
NO. 0200530	2'–0"	1,283
NO. 0200540	2'–6"	1,512
NO. 0200550	3'–0"	1,750
NO. 0200560	4'–0"	2,217

NOTES:
1. DESIGNED FOR AASHTO HS–20 LOADING.
2. DESIGNED ACCORDING TO ASTM C857–87 AND ASTM C858–83.
3. ALL INLET BOXES SHALL HAVE 12" SUMP BELOW OUTLET (TYPICAL)

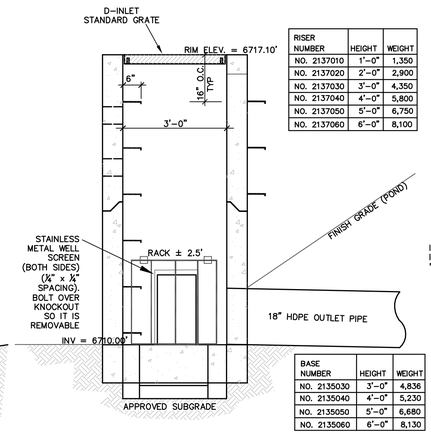




G 2'x2' INLET



RISER D–INLET FRONT VIEW

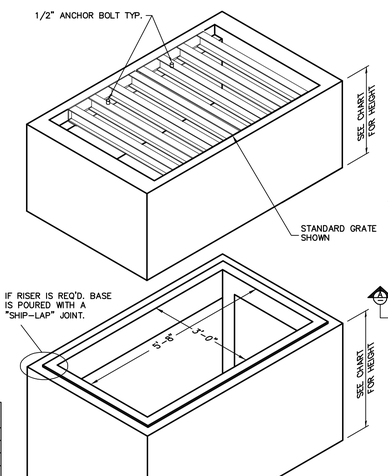


RISER D–INLET SIDE VIEW

RISER NUMBER	HEIGHT	WEIGHT
NO. 2137010	1'–0"	1,350
NO. 2137020	2'–0"	2,900
NO. 2137030	3'–0"	4,350
NO. 2137040	4'–0"	5,800
NO. 2137050	5'–0"	6,750
NO. 2137060	6'–0"	8,100

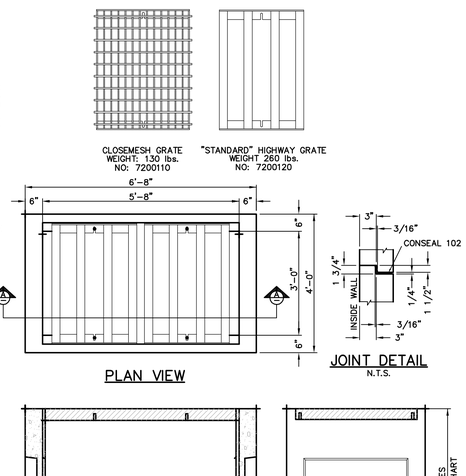
BASE NUMBER	HEIGHT	WEIGHT
NO. 2135030	3'–0"	4,836
NO. 2135040	4'–0"	5,230
NO. 2135050	5'–0"	6,680
NO. 2135060	6'–0"	8,130

PROVIDE 14" THICK BASE ON D–INLET TO PREVENT FLOATATION

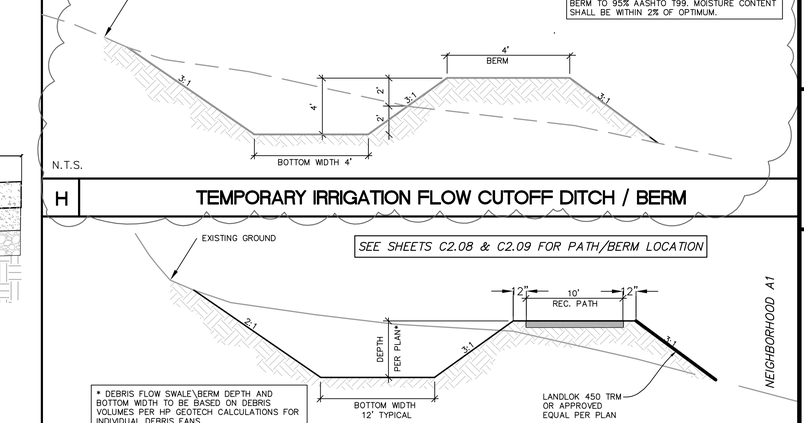


TYPE 'D' INLET
Scale: 1" = 2'–0"

NOTES:
1. DESIGNED FOR AASHTO HS–20 LOADING.
2. DESIGNED ACCORDING TO ASTM C857–87 AND ASTM C858–83.



D DEBRIS SWALE OUTLET STRUCTURE

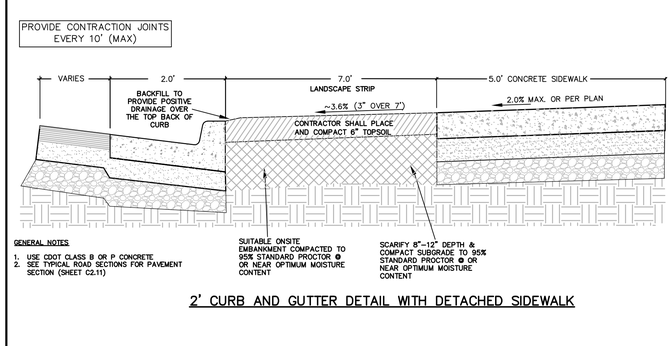


N.T.S.

H TEMPORARY IRRIGATION FLOW CUTOFF DITCH / BERM

N.T.S.

C POOL PATH\DEBRIS FLOW MITIGATION BERM



N.T.S.

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED MATTHEW C. RL 11-8-19 39865 PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

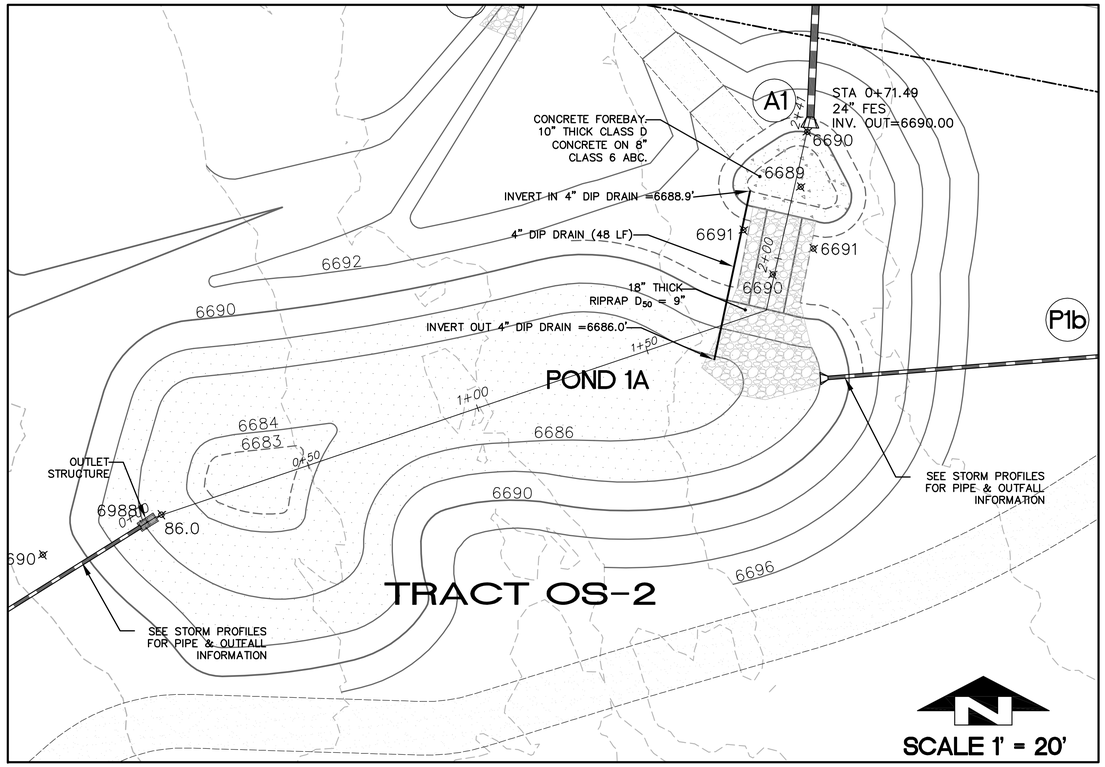
ROAD, GRADING, STORM DETAILS

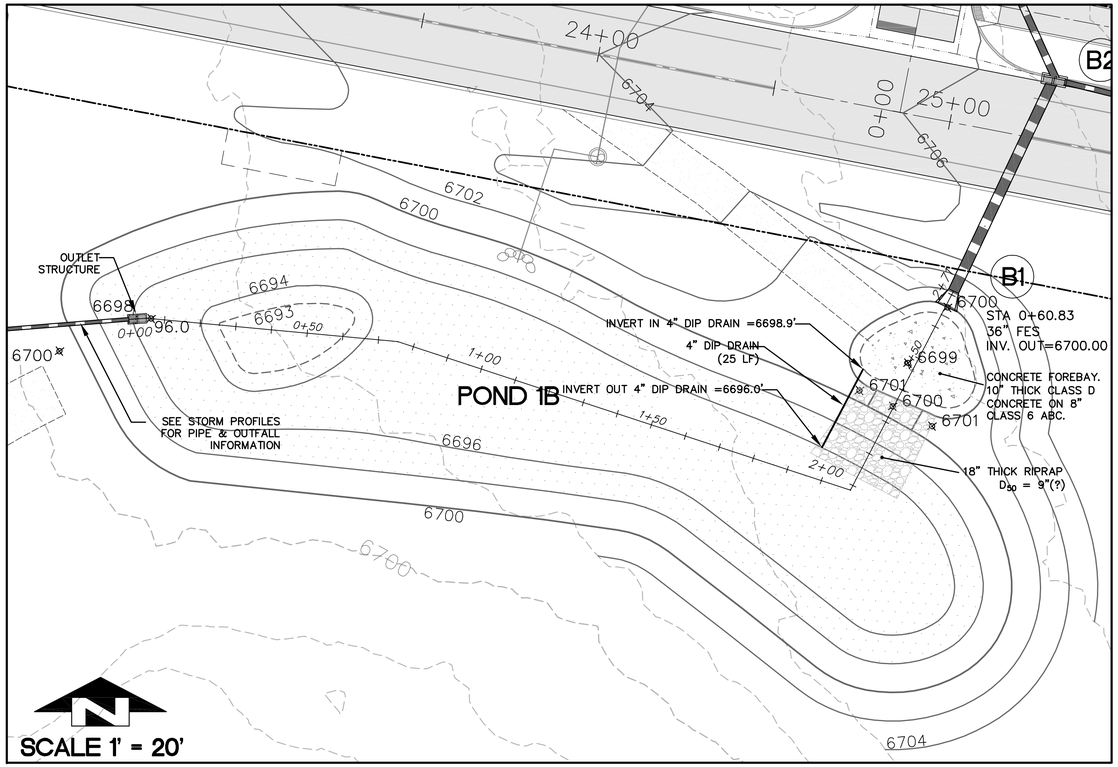
NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

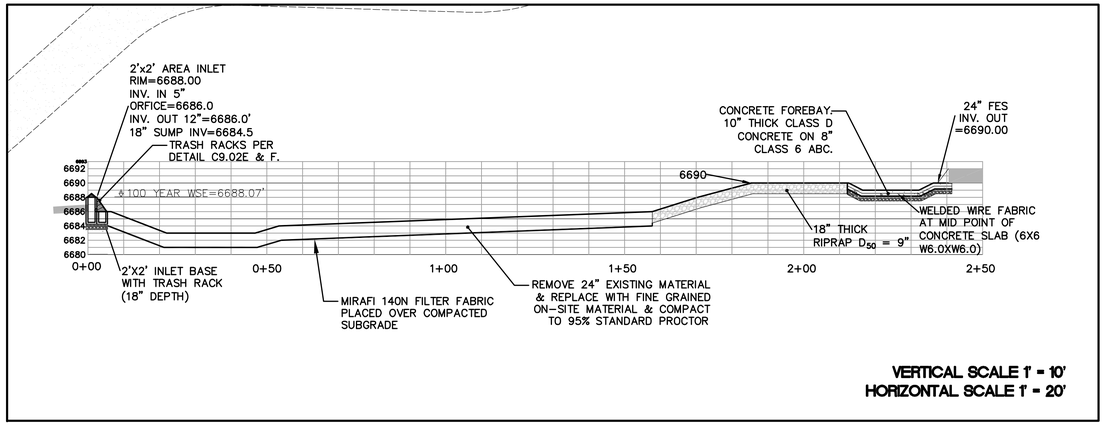
DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

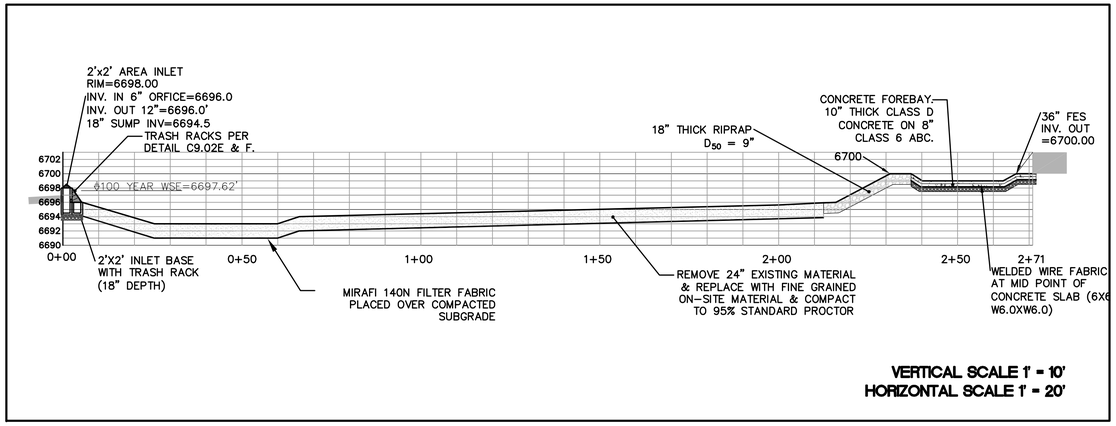
SHEET C9.02

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Details-Ph1.dwg, 2/19/2019 9:12:56 AM, Lee









ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. WILSON
11-8-18
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

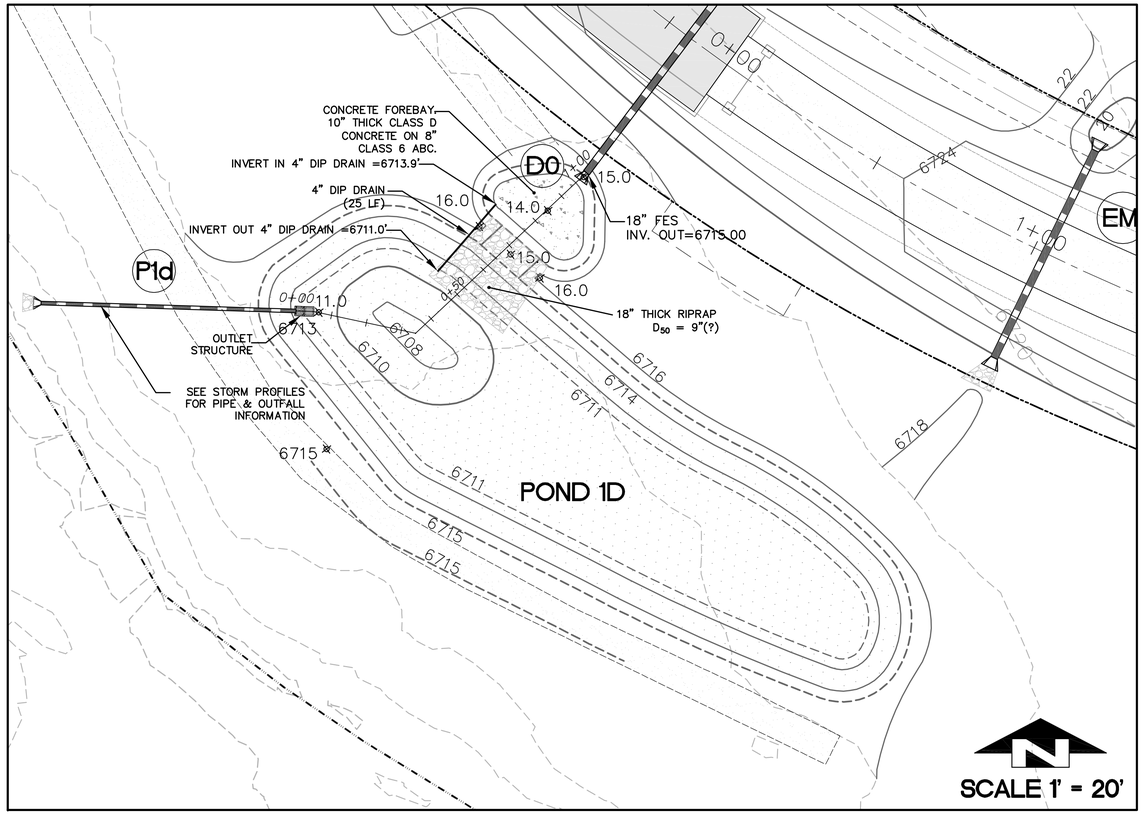
POND/STORM DETAILS

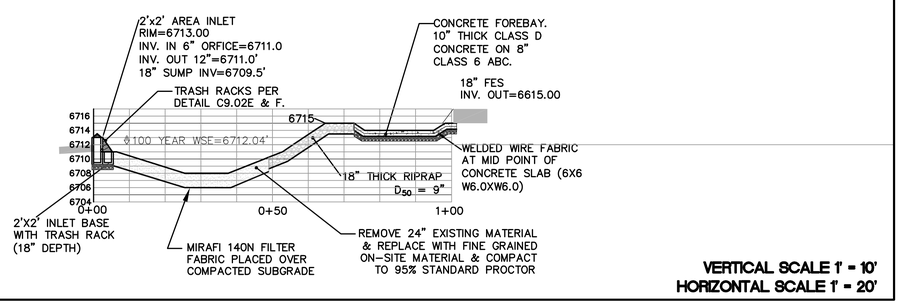
NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	GB
	02/20/2019	RESPONSE TO COMMENTS	

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C9.03

O:\Eagle\Haymeadow-53480.5- 2016\dwg\Master\Ponds-Ph1.dwg, 2/19/2019 9:19:38 AM, Lee





ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. WELLS
11-8-18
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

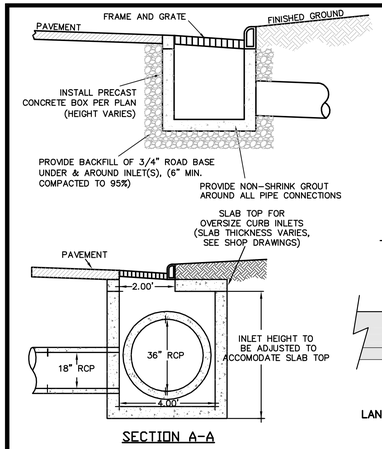
POND/STORM DETAILS

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	GB
	02/20/2019	RESPONSE TO COMMENTS	

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

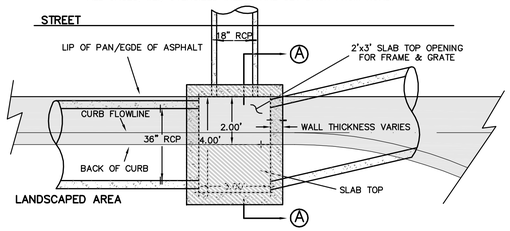
SHEET
C9.04

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Ponds-Ph1.dwg, 2/19/2019 9:20:08 AM, Lee



SECTION A-A

1. CURB INLET SIZES VARY. REFER TO PLAN SHEETS AND DRAINAGE TABLE FOR INLET SIZES AND INVERT INFORMATION. THE FABRICATOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO THE INSTALLATION OF CURB INLETS.
2. CURB INLET SIZES INDICATED ARE INSIDE OF BOX DIMENSIONS.
3. ALL CURB INLETS OTHER THAN THE 2'x3' CURB INLET WILL REQUIRE A SLAB TOP WITH THE APPROPRIATE SIZE OPENING TO ACCOMODATE A D & L, INC., FRAME & GRATE (SEE DETAIL FOR CURB INLET)
4. KNOCKOUTS SHALL BE PROVIDED ON ALL SIDES OF CURB INLETS WHERE CULVERT OPENINGS ARE NOT PREFABRICATED.
5. ALL CURB INLETS SHALL BE DESIGNED ACCORDING TO ASTM C857-87 AND ASTM C858-83. CURB INLETS SHALL ALSO BE DESIGNED FOR AASHTO HS-20 LOADING INCLUDING THOSE INLETS WHICH REQUIRE SLAB TOPS.
6. THE CULVERT CENTERLINES ARE ALIGNED WITH THE MID-POINT OF THE INSIDE FACE OF INLET.
7. THE INSIDE FACE OF CURB INLETS ARE ALIGNED WITH THE LIP OF PAN IN ALL CASES, I.E., OVERSIZED INLETS ARE SET BACK FROM ROAD.

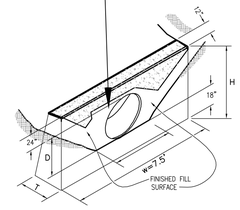


EXAMPLE OVERSIZE CURB INLET-PLAN VIEW

N.T.S.

A CURB INLET

INSTALL 24" WATERMAN C-10 CANAL GATE OR APPROVED EQUAL ON OUTSIDE OF HEADWALL. ADD 8" TO TOP OF HEADWALL TO ACCOMODATE MINIMUM HEIGHT OF CANAL GATE.



SINGLE PIPE

GENERAL NOTES

1. FOR SIZE AND LOCATION OF CULVERTS, SEE PLANS.
2. ALL CONCRETE SHALL BE CDOT CLASS B.
3. FOOTINGS IN ROCK SHALL BE POURED OUT TO ROCK AND NOT FORMED.
4. EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4 IN.

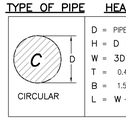
CONCRETE HEADWALL INSTALLATIONS

SEE M-601-10 FOR REINFORCING DETAILS

QUANTITIES FOR ONE CONCRETE HEADWALL (CUBIC YARDS)

PIPE		DIAMETER (AND EQUIVALENT DIAMETER) (INCHES)											
		18		24		30		36		42		48	
TYPE	MATERIAL	SINGLE	DOUBLE	SINGLE	DOUBLE	SINGLE	DOUBLE	SINGLE	DOUBLE	SINGLE	DOUBLE	SINGLE	DOUBLE
CIRCULAR	RCP	1.0	1.3	1.5	2.0	2.0	2.7	2.8	3.6	3.6	4.6	4.6	6.0
	CMP OR PLASTIC	1.1	1.4	1.6	2.1	2.2	3.0	3.0	4.0	3.9	5.3	5.0	6.8
ELLIPTICAL	RCP	23 x 14		30 x 19		38 x 24		45 x 29		53 x 34		60 x 38	
		0.9	1.2	1.3	1.6	1.7	2.2	2.3	2.9	2.9	3.7	3.5	4.4
ARCH	CMP	22 x 13		29 x 18		36 x 22		43 x 27		50 x 31		58 x 36	
		0.9	1.3	1.4	1.9	1.8	2.4	2.4	3.4	3.2	4.4	3.4	5.0

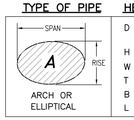
TYPE OF PIPE / HEADWALL DIMENSIONS



D = PIPE DIAMETER (INSIDE)
H = D + 30"
W = 3D + 18"
T = 0.4 H (NEAREST INCH)
B = 1.5 D (30" MINIMUM)
L = W + B

NOTE: VOLUME OCCUPIED BY PIPE HAS BEEN DEDUCTED.

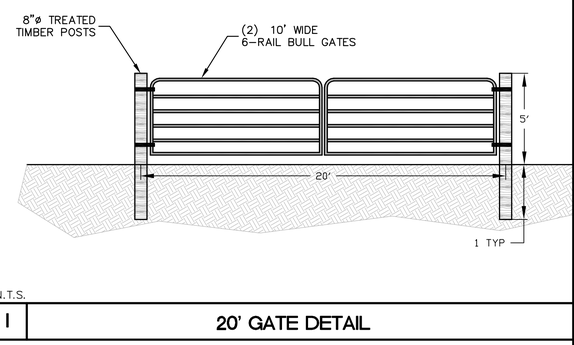
TYPE OF PIPE / HEADWALL DIMENSIONS



D = EQUIVALENT CIRCULAR DIAMETER (INSIDE)
H = RISE + 30"
W = 3D + 18"
T = 0.4 H (NEAREST INCH)
B = 1.5 D (30" MINIMUM)
L = W + B

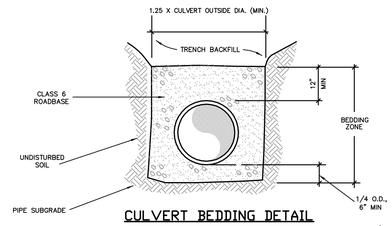
N.T.S.

B CONCRETE HEADWALL

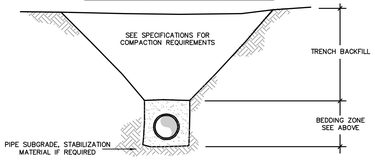


N.T.S.

I 20' GATE DETAIL



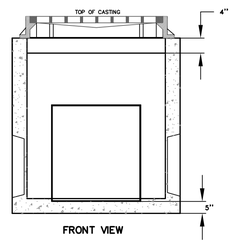
CULVERT BEDDING DETAIL



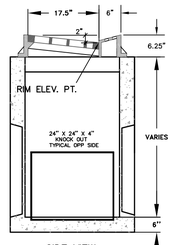
TRENCH ZONES

N.T.S.

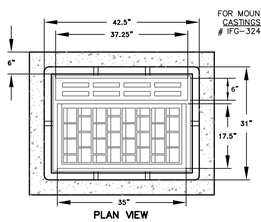
C CULVERT BEDDING DETAIL



FRONT VIEW

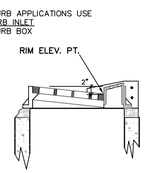


SIDE VIEW



PLAN VIEW

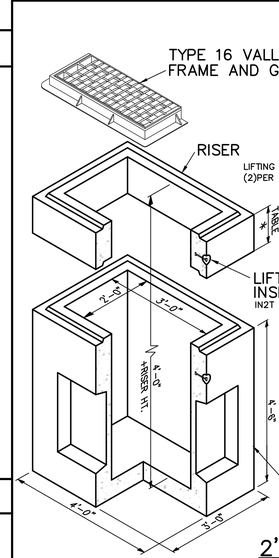
FOR MOUNTABLE CURB APPLICATIONS USE CASTINGS INC. CURB INLET # IFG-3246-DO-CURB BOX

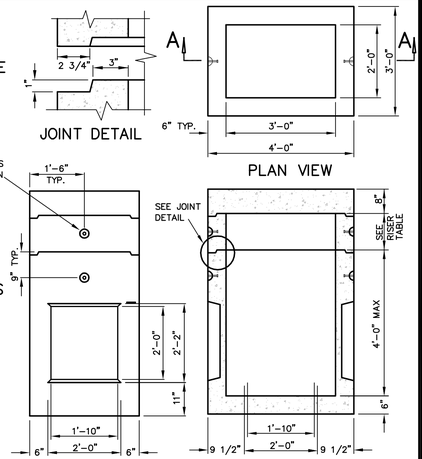


ADD 2-#4 REBAR ACROSS BACK OF CAST IRON INTO SLIP FORMED CURB SECTIONS. SAW CUT 1/3 OF DEPTH AT EDGE OF CAST IRON (2 PLACES).

N.T.S.

D 30" MOUNTABLE CURB INLET DETAIL



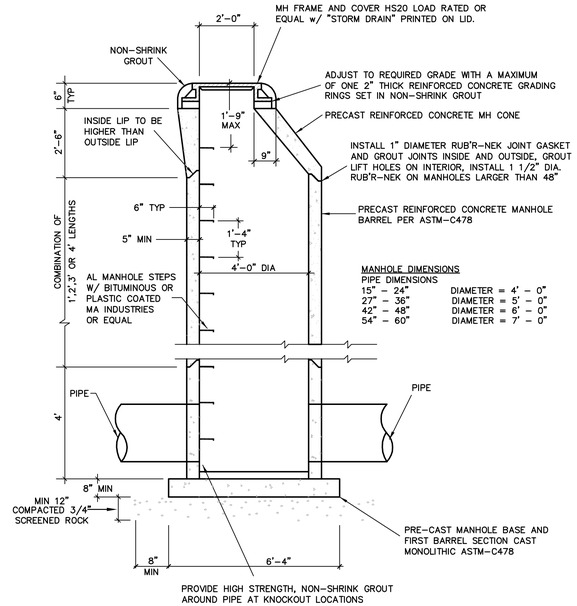


RISER		
HEIGHT	CODE	WEIGHT
1'	CB231R	930#
2'	CB232R	1,860#
3'	CB233R	2,790#

NOTES:
1. CATCH BASINS ARE DESIGNED TO MEET ASTM C858 WITH AASHTO HS-20 LOADING.
2. OPENINGS MAY BE LOCATED AS REQUIRED.
3. CHECK HARDWARE SECTION FOR OPTIONAL ACCESSORIES.

N.T.S.

E 2' x 3' INLET

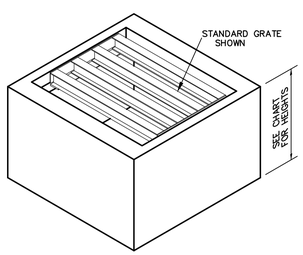


MANHOLE DIMENSIONS

PIPE DIMENSIONS	
15" - 24"	DIAMETER = 4' - 0"
27" - 36"	DIAMETER = 5' - 0"
42" - 48"	DIAMETER = 6' - 0"
54" - 60"	DIAMETER = 7' - 0"

N.T.S.

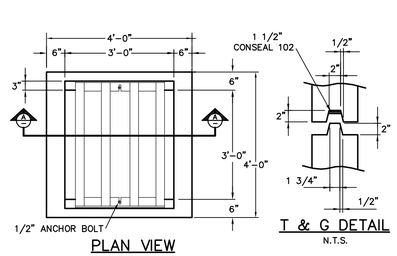
F STORM SEWER MANHOLE



RISER NUMBER	HEIGHT	WEIGHT
NO. 2127018	1'-0"	1,050
NO. 2127024	2'-0"	2,100
NO. 2127036	3'-0"	3,150
NO. 2127048	4'-0"	4,200
NO. 2127060	5'-0"	5,250
NO. 2127072	6'-0"	6,300

BASE NUMBER	HEIGHT	WEIGHT
NO. 2125030	3'-0"	3,101
NO. 2125040	4'-0"	4,150
NO. 2125050	5'-0"	5,200
NO. 2125060	6'-0"	6,250

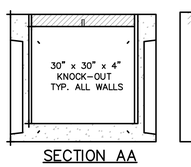
NOTES:
1. DESIGNED FOR AASHTO HS-20 LOADING.
2. DESIGNED ACCORDING TO ASTM C857-87 AND ASTM C858-83.



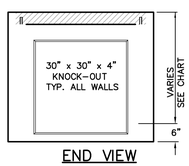
PLAN VIEW

T & G DETAIL

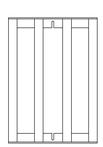
N.T.S.



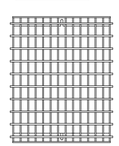
SECTION AA



END VIEW



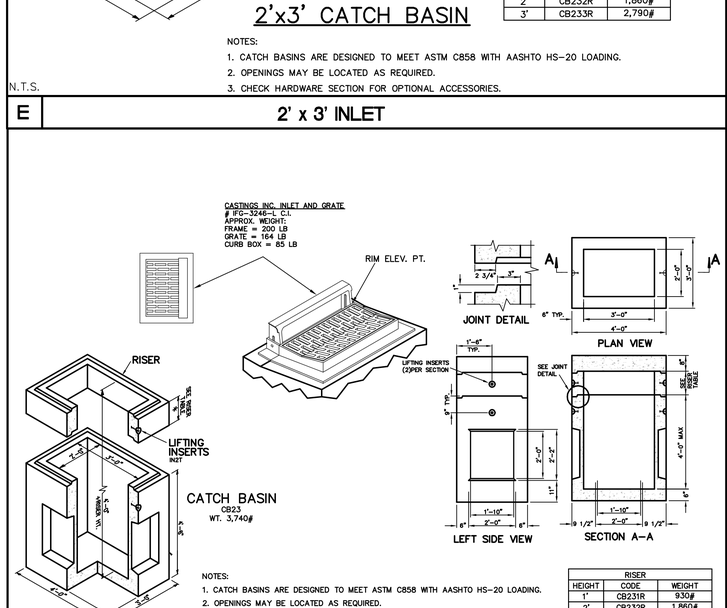
"STANDARD" HIGHWAY GRATE
WEIGHT: 260 lbs.
NO: 7200120



CLOSEMESH GRATE
WEIGHT: 130 lbs.
NO: 7200110

N.T.S.

G 3'x3' TYPE C INLET



RISER		
HEIGHT	CODE	WEIGHT
1'	CB231R	930#
2'	CB232R	1,860#
3'	CB233R	2,790#

NOTES:
1. CATCH BASINS ARE DESIGNED TO MEET ASTM C858 WITH AASHTO HS-20 LOADING.
2. OPENINGS MAY BE LOCATED AS REQUIRED.
3. CHECK HARDWARE SECTION FOR OPTIONAL ACCESSORIES.

N.T.S.

H 2' x 3' CURB INLET DETAIL

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED MATTHEW C. LEE 39865 PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

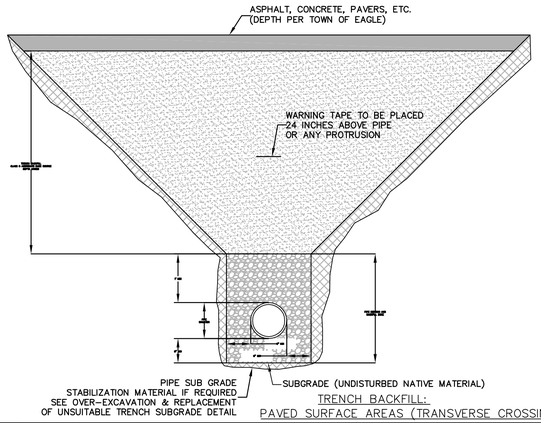
STORM DETAILS

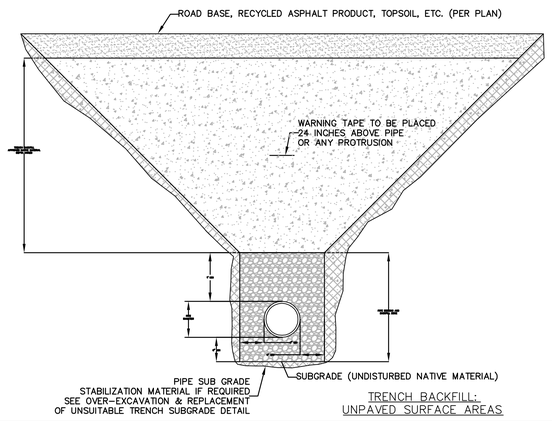
NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

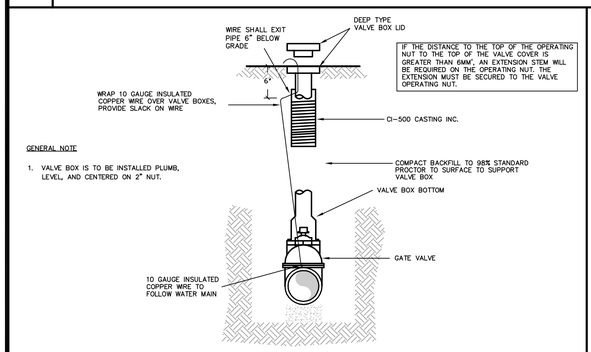
SHEET C9.05

O:\Eagle\Haymeadow-53480.5- 2016\dwg\Master\Details-Ph1.dwg, 2/19/2019 9:13:32 AM, Lee

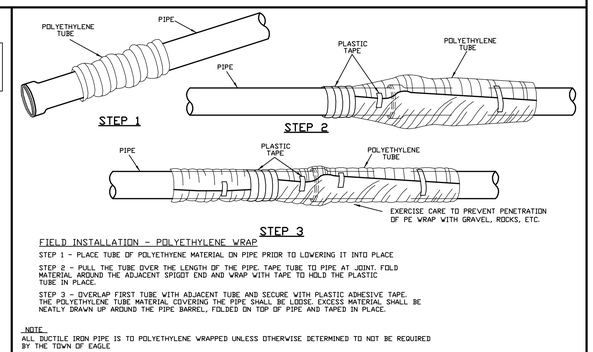




A TRENCH AND PIPE BEDDING DETAILS (SEWER AND WATER)



B GATE VALVE AND BOX ASSEMBLY



FIELD INSTALLATION - POLYETHYLENE WRAP

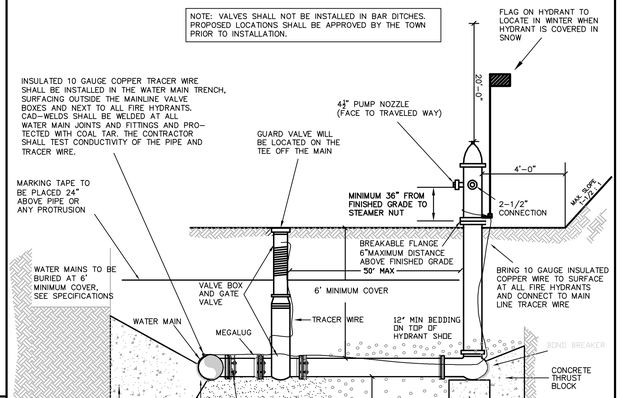
STEP 1 - PLACE TUBE OF POLYETHYENE MATERIAL ON PIPE PRIOR TO LOWERING IT INTO PLACE

STEP 2 - PULL THE TUBE OVER THE LENGTH OF THE PIPE. TAPE TUBE TO PIPE AT JOINT. FOLD MATERIAL AROUND THE ADJACENT SPIGOT END AND WRAP WITH TAPE TO HOLD THE PLASTIC

STEP 3 - OVERLAP FIRST TUBE WITH ADJACENT TUBE AND SECURE WITH PLASTIC ADHESIVE TAPE. THE POLYETHYLENE TUBE MATERIAL COVERING THE PIPE SHALL BE LOOSE. EXCESS MATERIAL SHALL BE NEATLY DRAWN UP AROUND THE PIPE BARREL, FOLDED ON TOP OF PIPE AND TAPED IN PLACE.

NOTE
ALL DUCTILE IRON PIPE IS TO POLYETHYLENE WRAPPED UNLESS OTHERWISE DETERMINED TO NOT BE REQUIRED BY THE TOWN OF EAGLE

C POLYETHYLENE WRAP

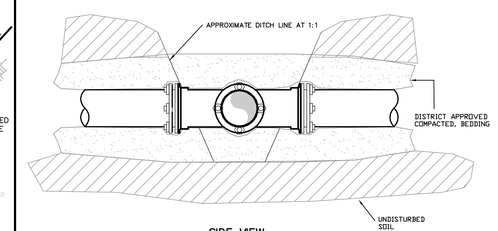


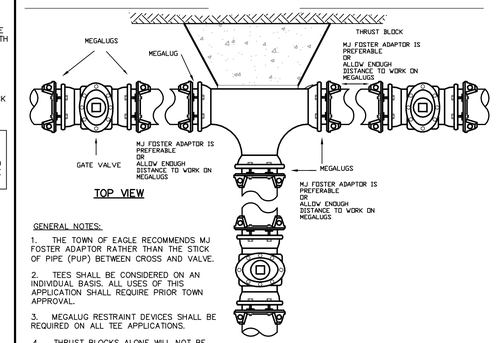
NOTE: MUELLER SUPER CENTERION A423 5 1/2" MAIN VALVE OPENING.
FIRE HYDRANTS WILL NOT BE DEEPER THAN 7' 6". EXTENSIONS WILL NOT BE ALLOWED. BENDS WILL BE UTILIZED TO BRING THE HYDRANT TO GRADE. RESTRAINED JOINTS ARE REQUIRED FROM GUARD VALVE TO HYDRANT.

HYDRANT CLEARANCE DIAGRAM



D FIRE HYDRANT ASSEMBLY





GENERAL NOTES:

1. THE TOWN OF EAGLE RECOMMENDS MJ FOSTER ADAPTOR RATHER THAN THE STICK OF PIPE (PUP) BETWEEN CROSS AND VALVE.
2. TEES SHALL BE CONSIDERED ON AN INDIVIDUAL BASIS. ALL USES OF THIS APPLICATION SHALL REQUIRE PRIOR TOWN APPROVAL.
3. MEGALUG RESTRAINT DEVICES SHALL BE REQUIRED ON ALL TEE APPLICATIONS.
4. THRUST BLOCKS ALONE WILL NOT BE ACCEPTED AS A RESTRAINT.

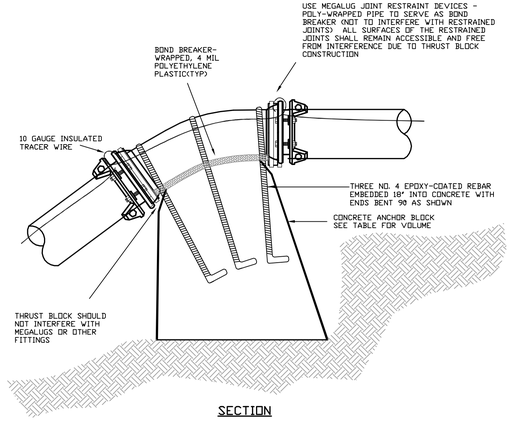
E TEE DETAIL

MINIMUM CUBIC YARDS OF CONCRETE

SIZE OF PIPE	BENDS			
	11-1/4°	22-1/2°	45°	90°
4"	0.2	0.4	1.3	N/A
6"	0.2	0.5	1.8	N/A
8"	0.2	0.5	1.8	N/A
10"	0.2	0.8	2.7	N/A
12"	0.3	1.0	3.8	N/A

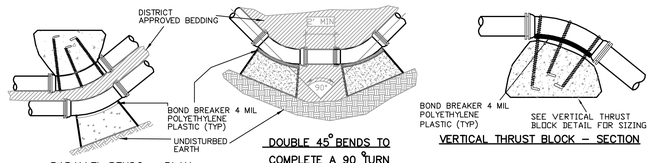
NA = NOT ALLOWED

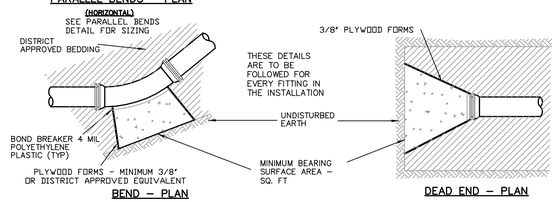
NOTE: PIPE LARGER THAN 12" TO BE SPECIFICALLY DESIGNED BY ENGINEER. FORMS SHALL BE 3/8" PLYWOOD



SECTION

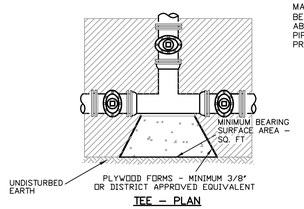
F VERTICAL THRUST BLOCK

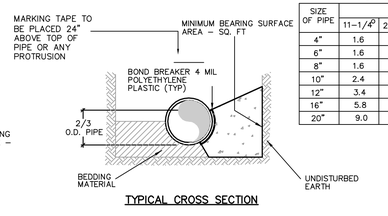




MINIMUM BEARING SURFACE (SF) FOR 200 PSI AND LESS

SIZE OF PIPE	BENDS				TEE OR DEAD END
	11-1/4°	22-1/2°	45°	90°	
4"	1.3	2.5	2.5	4	6.4
6"	1.3	2.5	5.0	9.0	6.4
8"	1.3	2.5	5.0	9.0	6.4
10"	1.9	3.8	7.4	13.7	9.7
12"	2.7	5.4	10.5	19.3	13.7
16"	4.7	9.3	19.1	33.6	23.8
20"	7.2	14.3	28.0	51.8	36.6





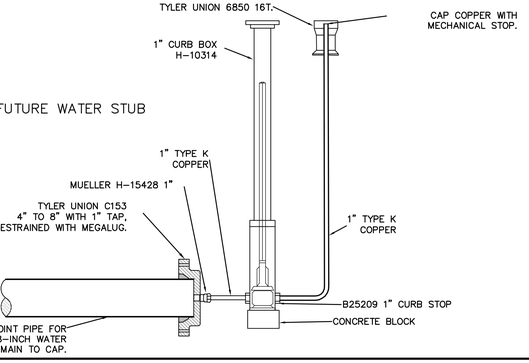
MINIMUM BEARING SURFACE (SF) FOR 201 TO 250 PSI

SIZE OF PIPE	BENDS				TEE OR DEAD END
	11-1/4°	22-1/2°	45°	90°	
4"	1.6	3.1	4	4	8.0
6"	1.6	3.1	6.2	11.4	8.0
8"	1.6	3.1	6.2	11.4	8.0
10"	2.4	4.7	9.25	17.1	12.0
12"	3.4	6.7	13.1	24.2	17.1
16"	5.8	11.6	22.7	42.0	29.7
20"	9.0	17.9	35.0	64.8	45.8

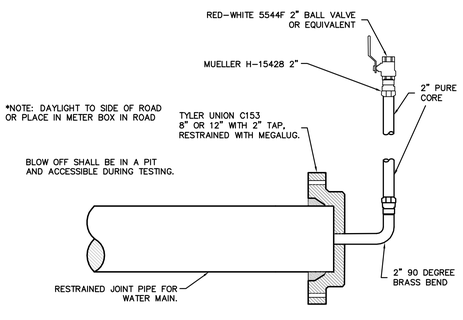
GENERAL NOTES

1. MEGALUG RESTRAINTS SHALL BE USED IN CONJUNCTION WITH THRUSTBLOCKS.
2. MINIMUM AREA REQUIRED WILL BE THAT OF AN 8 INCH MAIN
3. ALL THRUST BLOCKS SHALL BE FORMED. THE MINIMUM THICKNESS FORM MATERIAL SHALL BE 3/8" PLYWOOD OR DISTRICT APPROVED EQUIVALENT.
4. BEARING AREA BASED ON SOIL BEARING PRESSURE OF 2000 LB/SF.

G CONCRETE THRUST BLOCKS



H DIP BLOWOFF



I TEMPORARY CONSTRUCTION BLOWOFF

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED MATTHEW C. FINE 39865 PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

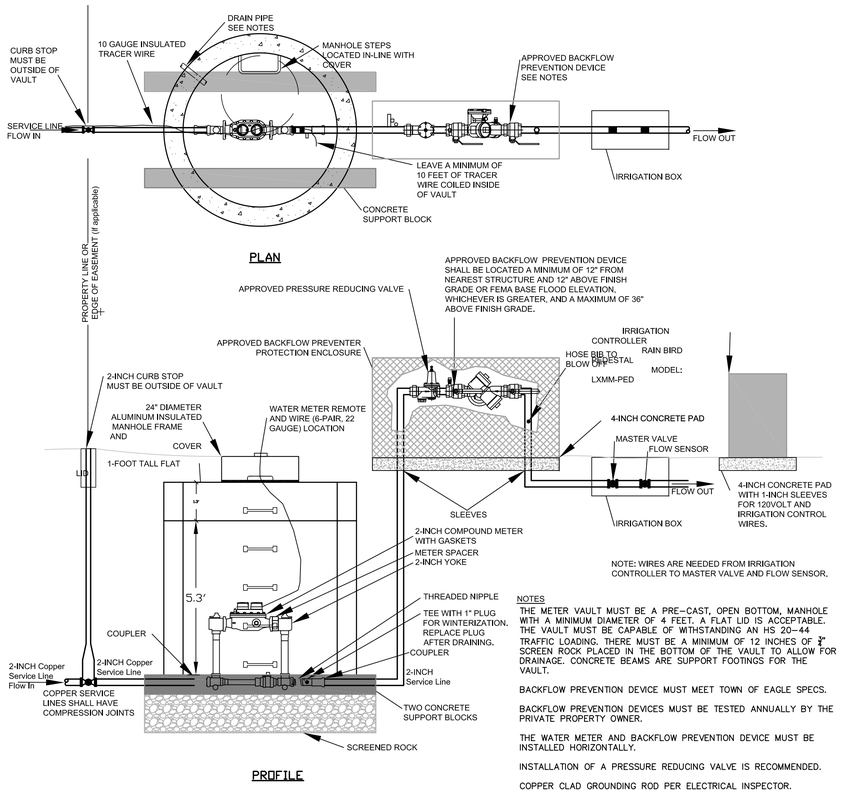
WATER DETAILS

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

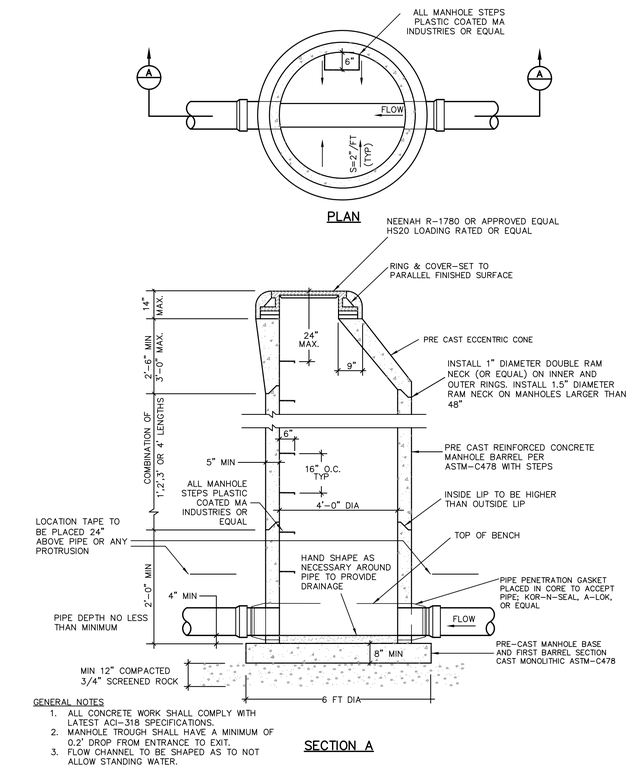
SHEET C9.06

O:\Eagle\Haymeadow- 53480.5 - 2016\dwg\Master\Details-Pn1.dwg, 2/19/2019 9:14:01 AM, Lee



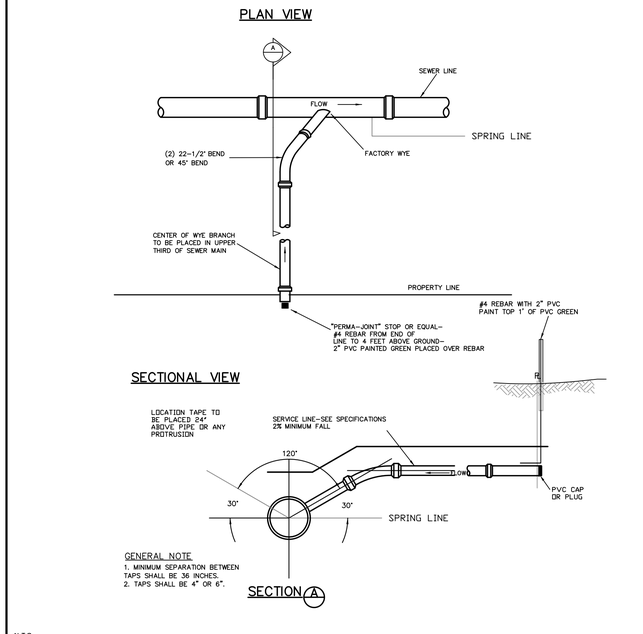
N.T.S.

A IRRIGATION METER VAULT AND CONTROLS 2-INCH



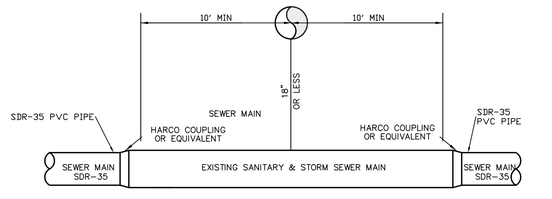
N.T.S.

B STANDARD MANHOLE



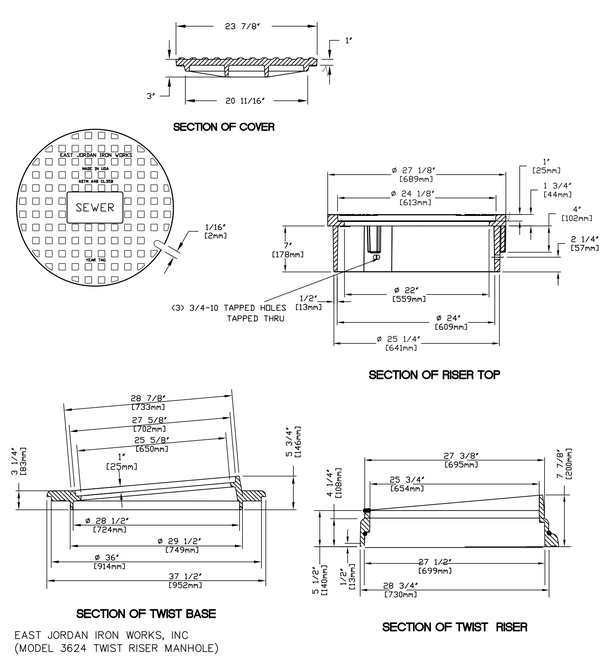
N.T.S.

C SEWER SERVICE CONNECTION FROM MAIN



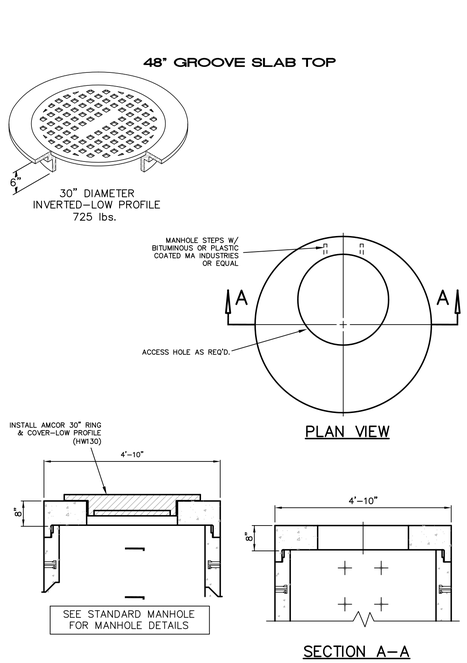
N.T.S.

D WATER/SEWER CROSSING (ENCASEMENT (C900))



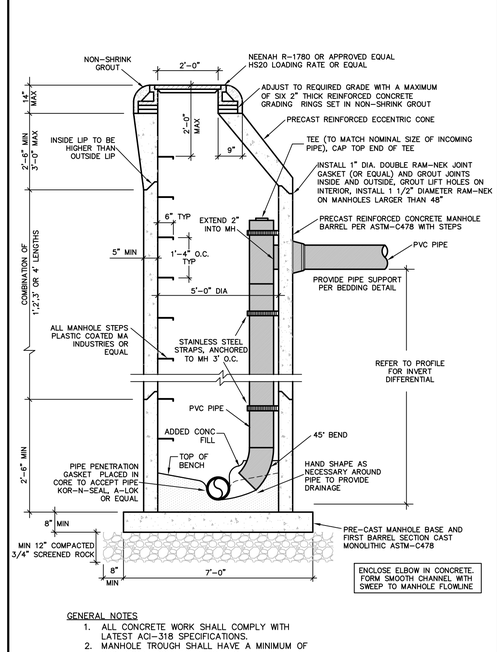
N.T.S.

E ADJUSTABLE TWIST RISER MANHOLE



N.T.S.

F FLAT TOP MANHOLE (SHALLOW MANHOLE)



N.T.S.

G INTERNAL DROP MANHOLE

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED MATTHEW C. RIEL 39865 PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

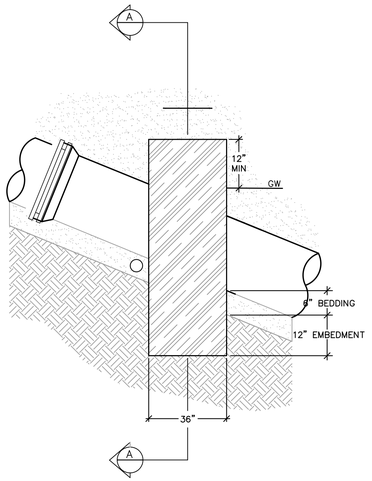
WATER & SEWER DETAILS

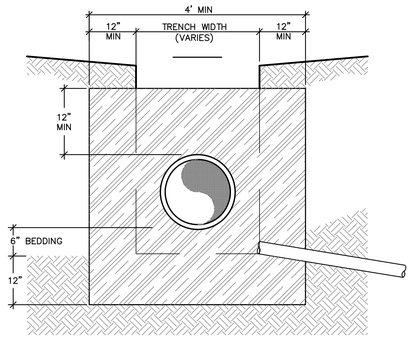
NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	GB
	02/20/2019	RESPONSE TO COMMENTS	

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

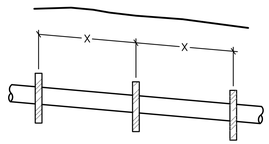
SHEET C9.07

O:\Eagle\Haymeadow-53480.5-2016\dwg\Master\Details-Ph1.dwg, 2/18/2019 4:02:56 PM, foth





SECTION (A)

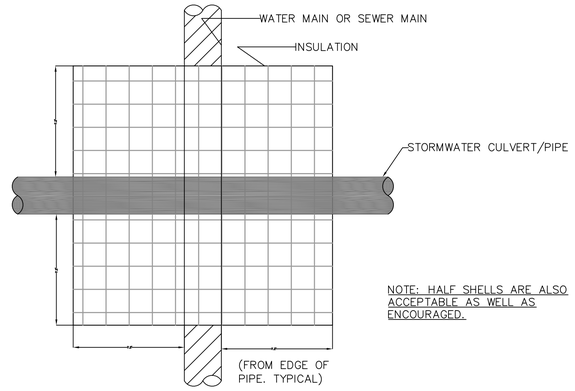


ELEVATION

N.T.S.

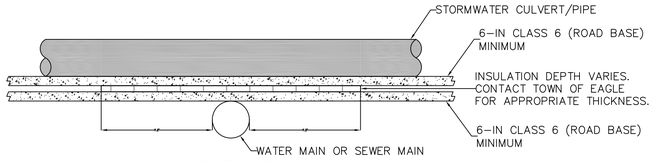
A GROUNDWATER BARRIER-WATER/SEWER MAIN

TOWN OF EAGLE
INSULATION DETAIL



NOTE: HALF SHELLS ARE ALSO ACCEPTABLE AS WELL AS ENCOURAGED.

PLAN VIEW



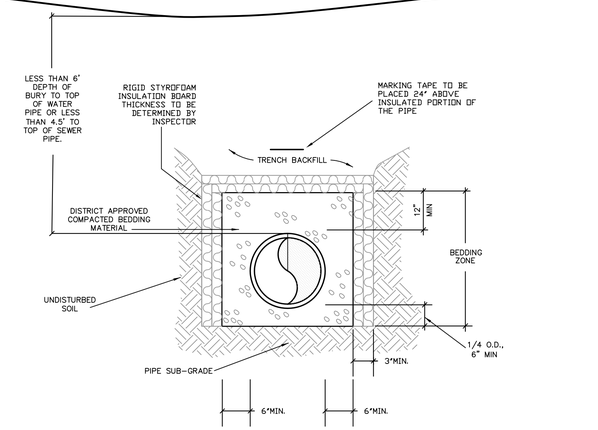
PROFILE VIEW

NOTE:
1. INSULATION CAN NOT BE BROKEN. NEEDS PROTECTED TOP AND BOTTOM. NO GAPS. FITTED TOGETHER AND DUCT TAPE.
2. INSULATION NEEDS TO BE 6-FT MINIMUM FROM EDGE OF PIPE

N.T.S.

B WATER/SEWER LINE INSULATION

TOWN OF EAGLE
ALTERNATE INSULATION DETAIL



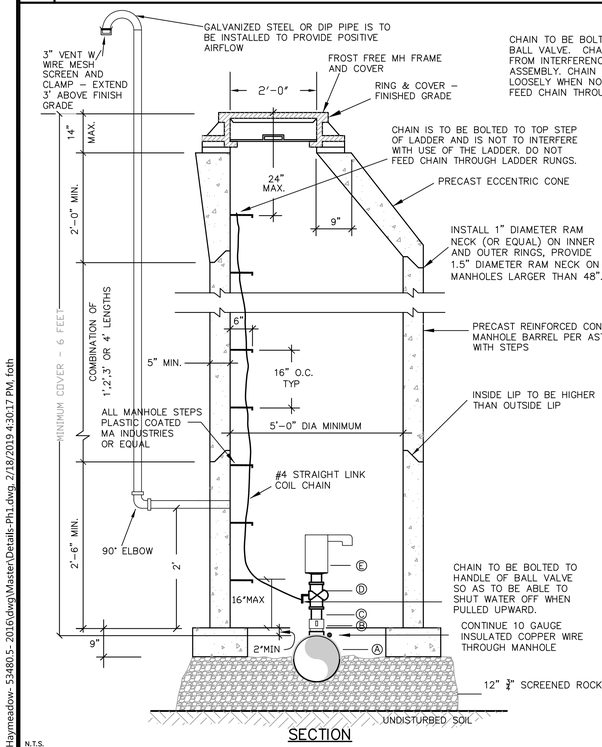
ELEVATION

GENERAL NOTES

1. CONDITION OF LESS THAN MINIMUM BURY DEPTH ALLOWED ONLY WITH WRITTEN APPROVAL FROM THE TOWN PRIOR TO CONSTRUCTION. INSULATION SHALL BE INSTALLED ON ALL PIPE THAT DOES NOT MEET MINIMUM BURY REQUIREMENTS.
2. SEE SEWER AND WATER PIPE BEDDING DETAIL FOR BACKFILL MATERIAL AND COMPACTION SPECS.
3. INSULATION SHALL BE INSTALLED ON ALL PIPE THAT IS WITHIN THE MINIMUM BURY OF ANY DRAINAGE CULVERT. THIS APPLIES TO THE BOTTOM OF THE PIPE IF IT CROSSES OVER TOP OF THE CULVERT.

N.T.S.

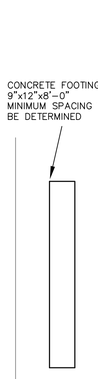
C WATER/SEWER LINE INSULATION - ALTERNATE



SECTION

N.T.S.

SIDE DETAIL



FOOTING PLAN

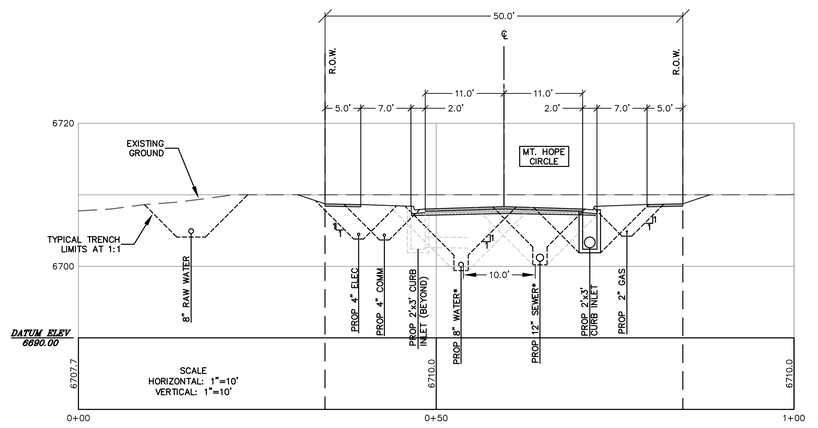
GENERAL NOTES

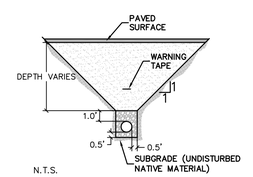
1. ALL CONCRETE WORK SHALL COMPLY WITH LATEST ACI-318 SPECIFICATIONS.
2. AIR VALVE ASSEMBLY LARGER THAN 2" SIZE SHALL BE SPECIALLY DESIGNED AND MEET TOWN REQUIREMENTS.
3. THE INSTALLATION OF THE CHAIN SHALL ENABLE ISOLATING A DEFECTIVE AIR-VAC WITHOUT SHUTTING OFF THE MAIN.
4. AN INSULATION BLANKET IS REQUIRED TO BE INSTALLED AT THE DIRECTION OF THE DISTRICT INSPECTORS.

LEGEND

A. 2" MUELLER BR2 (CC THREAD) OR EQUAL (BRONZE) SADDLE
B. 2" CORPORATION STOP MUELLER B-25008
C. 2" THREADED BRASS NIPPLE
D. 2" FEMALE-FEMALE THREADED BRASS BALL VALVE
E. 2" THREADED ARI D-040 ST ST 2"

D AIR RELEASE VALVE





N.T.S.

DETAIL A1 FROM TOE PW MANUAL

NOTE: WATER/SEWER COULD USE TRENCH BOX TO REDUCE WIDTH OF IMPACT TO ROADWAY

E TYPICAL ROAD SECTION WITH UTILITIES (STA 1+50 MT. HOPE CIRCLE)

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. WEIR
11-8-19
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

WATER & SEWER DETAILS

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	GB
	02/20/2019	RESPONSE TO COMMENTS	

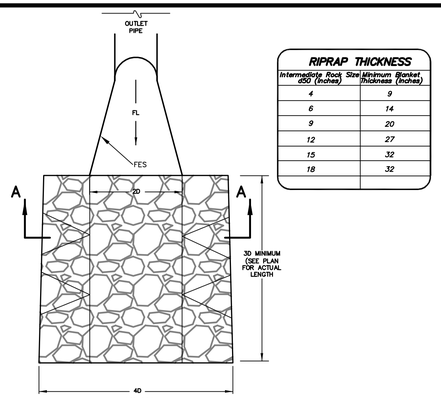
DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET C9.08

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Details-Ph1.dwg, 2/18/2019 4:30:17 PM, foth

A CULVERT RIPRAP OUTLET PROTECTION

RIPRAP THICKNESS	
Intermediate Rock Size d50 (inches)	Minimum Blanket Thickness (inches)
4	9
6	14
9	20
12	27
15	32
18	32



RIPRAP LINED CHANNEL

NOTE: 1. SEE PLANS FOR D (INSIDE DIAMETER OF CULVERT) & NOMINAL STONE SIZE (d50)

RIPRAP

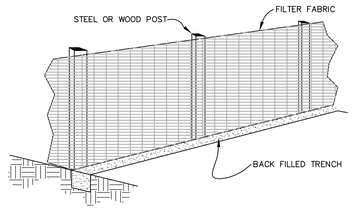
RIPRAP shall conform to the material, gradation and construction requirements of Section 506, Riprap, of the State Department of Highways, Division of Highways, State of Colorado, Standard Specifications for Road and Bridge Construction. Table 506-2E is reproduced below.

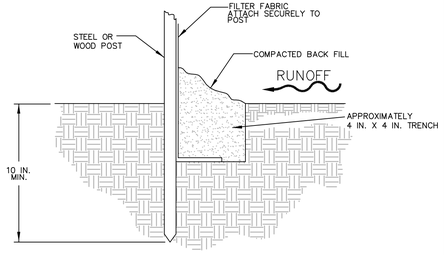
Table 5-1
Classification and Gradation of Ordinary Riprap

Riprap Designation	% Smaller than Given Size by Weight	Intermediate Rock Dimension (Inches)	d50* (Inches)
Type L	70-100	15	
	50-70	12	
	35-50	9	g**
	2-10	3	

*d50 = nominal stone size
** Bury types VL and L with native top soil and revegetate to protect from vandalism.

B SILT FENCE





SECTION VIEW

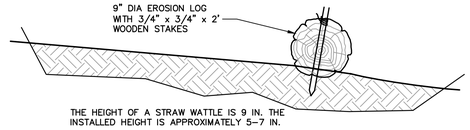
SILT FENCE DETAIL

GENERAL NOTES:

1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN ONE HALF THE HEIGHT OF THE FENCE HAS BEEN FILLED. REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA TRIBUTARY TO A SEDIMENT BASIN OR OTHER FILTERING MEASURE.

SYMBOL ON PLANS ——— SLT ——— SLT ———

C STRAW WATTLES-SLOPE PROTECTION



EROSION LOG WATTLE DETAIL

N.T.S.

THIS SEDIMENT BARRIER IS DESIGNED FOR LOW SURFACE FLOWS NOT TO EXCEED 1 CFS FOR SMALL AREAS, SLOPE FLATTER THAN 3:1 OR SHORT SLOPES, AND WHERE SILT FENCES ARE NOT PRACTICABLE. STRAW WATTLES CAN ALSO BE INSTALLED ON CONTOUR ON STEEPER SLOPES TO REDUCE SURFACE, SPREAD WATER FLOW AND CAPTURE SEDIMENT. THE FOLLOWING IS A BRIEF DESCRIPTION OF THE STRAW WATTLES, THEIR USES AND INSTALLATION.

1. THE HEIGHT OF A STRAW WATTLE IS 9 IN. THE INSTALLED HEIGHT IS APPROXIMATELY 5 -7 IN. THE STANDARD LENGTH OF STRAW WATTLES IS 25 FT., HOWEVER OTHER LENGTHS WILL BE MADE UPON REQUEST.

2. STRAW WATTLES CAN BE INSTALLED ON CONTOUR OF SLOPE, WITH A SLIGHT DOWNSLOPE ANGLE AT THE END OF EACH ROW TO ALLOW FOR SLOW DRAINAGE DURING HEAVY PRECIPITATION. THEY CAN ALSO BE USED AT THE TOP OF SLOPES TO PREVENT SHEETING OVER THE EDGE, AND THEY CAN BE USED AT THE TOE OF SLOPES. STRAW WATTLES CAN ALSO BE USED ALONG SIDEWALKS AND CURBS AND AROUND STORM DRAINS AND INLETS TO PREVENT SEDIMENT POLLUTION.

3. STRAW WATTLES CAN BE USED TO REPLACE SILT FENCES, STRAW BALE DIKES AND SAND BAG BARRIERS. THEY CAN ALSO BE PLACED IN DRAINAGE SWALES TO SLOW FLOWS AND CAPTURE SEDIMENT: THEY CAN BE USED AS LEVEL SPREADERS TO PREVENT CONCENTRATED FLOW, AND IN PLACE OF EARTHEN BERMS OR DIKES.

4. STRAW WATTLES SHOULD BE INSTALLED ON SURFACE.

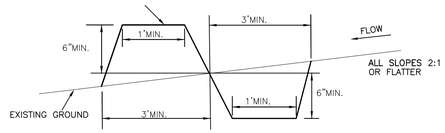
5. LAY THE WATTLE IN THE TRENCH AND STAKE WITH 3/4" X 3/4" X 18" OR 24" WOOD STAKES AT EACH END AND 4-FOOT ON CENTER. WHEN INSTALLING RUNNING LENGTHS, STRAW WATTLE ENDS SHOULD BE BUTTONED FIRMLY TOGETHER TO PREVENT LEAKAGE, AND SECURELY STAKED TOGETHER BUT OVERLAPPING IS ACCEPTABLE.

6. WHEN USED ON SLOPES, STRAW WATTLES DO NOT REQUIRE REMOVAL AND CAN BE ABANDONED IN PLACE. HOWEVER, WHEN USED FOR TEMPORARY PURPOSES SUCH AS ALONG SIDEWALKS AN CURBS, OR AROUND STORM DRAINS, THEY CAN BE REMOVED AND REUSED.

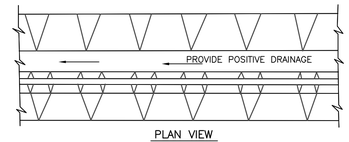
7. WATTLES INSTALLED ON SLOPES THAT ARE STEEPER THAN 2:1 SHALL BE SPACED AT 10' INTERVALS RATHER THAN 20' INTEVALS.

SYMBOL ON PLANS ——— W ——— W ———

D EARTH BERM/SWALE



CROSS SECTION



PLAN VIEW

Construction Specifications

1. ALL EARTH BERMS SHALL HAVE AN UNINTERRUPTED POSITIVE GRADE TO AN OUTLET. SPOT ELEVATIONS MAY BE NECESSARY FOR GRADES LESS THAN 1%.

2. RUNOFF DIVERTED FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.

3. RUNOFF DIVERTED FROM AN UNDISTURBED AREA SHALL OUTLET INTO AN UNDISTURBED STABILIZED AREA AT A NON-EROSIVE VELOCITY.

4. THE BERM/SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS-SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED IN THE STANDARD.

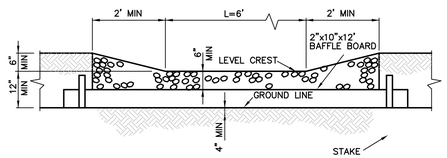
5. FILL SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.

6. STABILIZATION WITH SEED AND MULCH OR AS SPECIFIED OF THE AREA DISTURBED BY THE DIKE AND SWALE SHALL BE COMPLETED WITHIN 7 DAYS UPON REMOVAL.

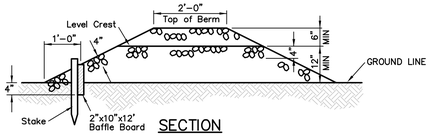
7. INSPECTION AND REQUIRED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.

STANDARD SYMBOL

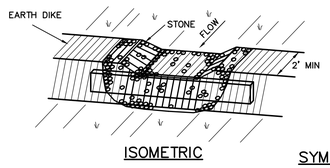
E STONE OUTLET STRUCTURE



ELEVATION



SECTION



ISOMETRIC

SYMBOL ON PLANS

CONSTRUCTION SPECIFICATIONS

1. THE STONE SHALL BE CRUSHED STONE. GRAVEL MAY BE USED IF CRUSHED STONE IS NOT AVAILABLE. THE STONE SHALL MEET AASHTO DESIGNATION M43 SIZE NO. 2 OR 24.

2. THE CREST OF THE STONE DIKE SHALL BE AT LEAST SIX INCHES LOWER THAN THE LOWEST ELEVATION OF THE TOP OF THE EARTH DIKE AND AND SHALL BE LEVEL.

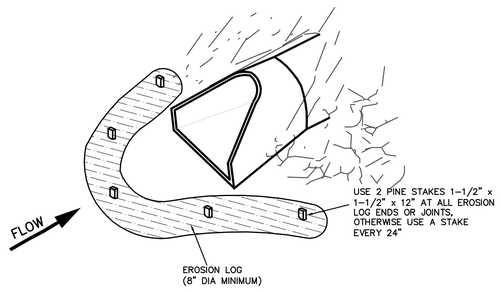
3. THE STONE OUTLET STRUCTURE SHALL BE EMBEDDED INTO THE SOIL A MINIMUM OF FOUR INCHES.

4. THE MINIMUM LENGTH, IN FEET, OF THE CREST OF THE STONE OUTLET STRUCTURE SHALL BE SIX.

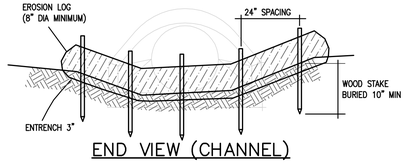
5. THE STONE OUTLET STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN, AND THE STONE SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE STONE, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.

6. THE BAFFLE BOARD SHALL BE EXTENDED ONE FOOT INTO THE DIKE, STAKED AND EMBEDDED 4 INCHES INTO EXISTING GROUND.

F WATTLE CULVERT PROTECTION

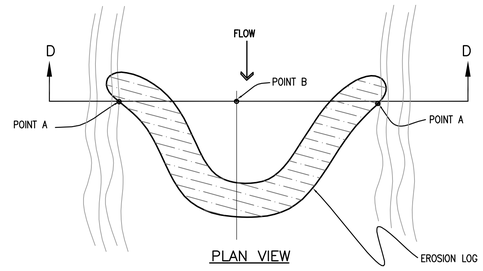


ISOMETRIC VIEW

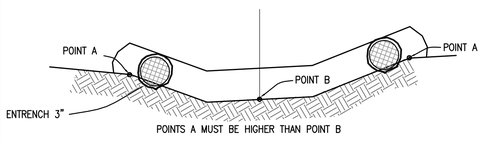


END VIEW (CHANNEL)

G DITCH WATTLES



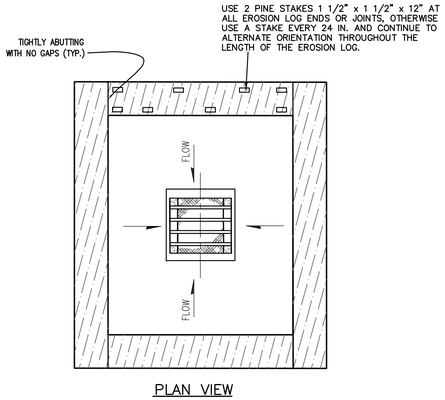
PLAN VIEW



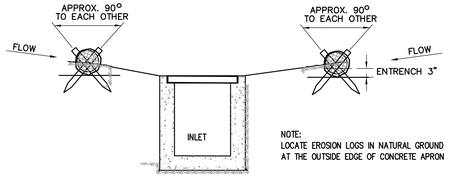
SECTION D-D

SYMBOL ON PLANS

H WATTLE INLET PROTECTION



PLAN VIEW



NOTE:
LOCATE EROSION LOGS IN NATURAL GROUND AT THE OUTSIDE EDGE OF CONCRETE APRON

CROSS SECTION

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED MATTHEW C. LEE 39865 PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

SEDIMENT CONTROL DETAILS

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	GB
	02/20/2019	RESPONSE TO COMMENTS	

DESIGNED	MW, RL		
DRAWN	RF		
CHECKED	MCW		
JOB NO.	53480.5		
DATE	02/20/2019		

SHEET C9.09

O:\Eagle\Haymeadow-53480.5-2016\dwg\Master\Details-Ph1.dwg, 2/19/2019 9:14:26 AM, Lee

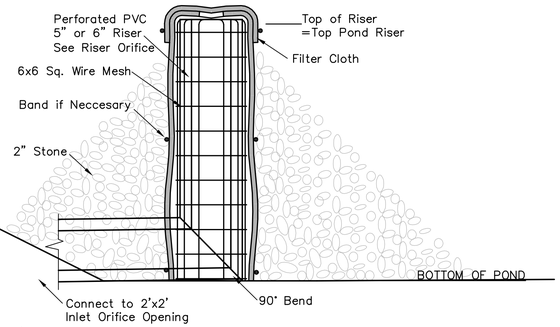
SEE TOWN OF EAGLE PUBLIC WORKS MANUAL– APPENDIX E TRACKING PAD DETAIL (E11)

SCE

SYMBOL ON PLANS

H STABILIZED CONSTRUCTION ENTRANCE

INSTALL IN STORMWATER PONDS DURING CONSTRUCTION AS TEMPORARY BMP



not to scale

A TEMPORARY SEDIMENT TRAP RISER MODIFICATION

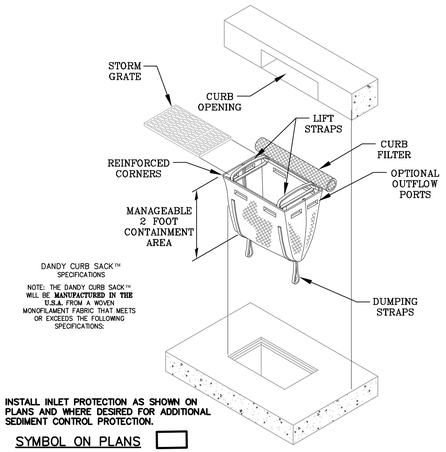
REGULAR FLOW DANDY CURB SACK™ (BLACK)

Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.78 (400) x 1.40 (315)
Grab Tensile Elongation	ASTM D 4632	%	15 x 15
Puncture Strength	ASTM D 4833	kN (lbs)	0.67 (150)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	5506 (800)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.67 (150) x 0.73 (165)
UV Resistance	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	l/min/m² (gal/min/ft²)	2852 (70)
Permittivity	ASTM D 4491	Sec⁻¹	0.90

HI-FLOW DANDY CURB SACK™ (SAFETY ORANGE)

Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.62 (365) X 0.89 (200)
Grab Tensile Elongation	ASTM D 4632	%	24 X 10
Puncture Strength	ASTM D 4833	kN (lbs)	0.40 (90)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	3097 (450)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.51 (115) X 0.33 (75)
UV Resistance	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	l/min/m² (gal/min/ft²)	5907 (145)
Permittivity	ASTM D 4491	Sec⁻¹	2.1

*Note: All Dandy Sacks™ can be ordered with our optional oil absorbent pillows



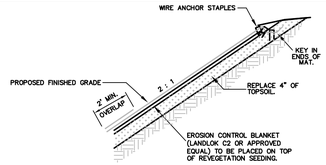
DANDY CURB SACK™ SPECIFICATIONS

NOTE: THE DANDY CURB SACK™ WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

INSTALL INLET PROTECTION AS SHOWN ON PLANS AND WHERE DESIRED FOR ADDITIONAL SEDIMENT CONTROL PROTECTION.

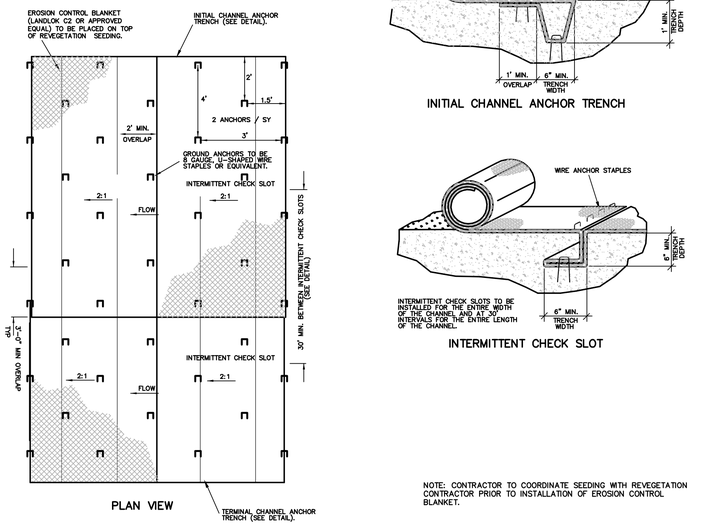
SYMBOL ON PLANS

B CURB SACK INLET PROTECTION



CROSS SECTION

NOTE: CONTRACTOR TO INSTALL TOPSOIL, SEED, MULCH AND FERTILIZER BEFORE INSTALLATION OF EROSION CONTROL BLANKET



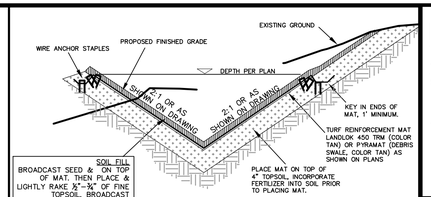
PLAN VIEW

INITIAL CHANNEL ANCHOR TRENCH

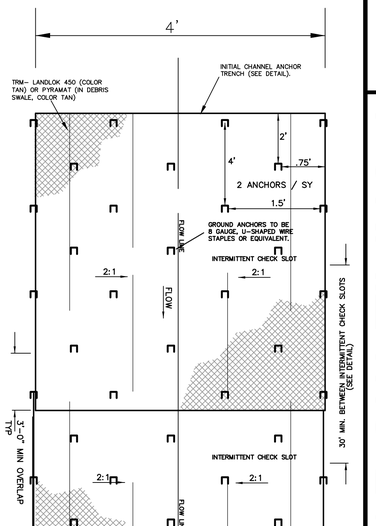
INTERMITTENT CHECK SLOT

NOTE: CONTRACTOR TO COORDINATE SEEDING WITH REVEGETATION CONTRACTOR PRIOR TO INSTALLATION OF EROSION CONTROL BLANKET.

C EROSION CONTROL BLANKET (SLOPE PROTECTION)



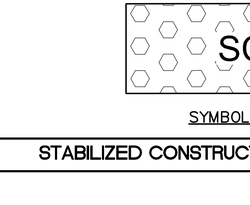
CHANNEL X–SECTION
NTS



CHANNEL PLAN VIEW
NTS



SECTION B–B



PERSPECTIVE VIEW

SECTION A–A

CONSTRUCTION SPECIFICATIONS–STONE/RIPRAP OUTLET SEDIMENT TRAP

1. THE AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.

2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER–SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED. MAXIMUM HEIGHT OF EMBANKMENT SHALL BE 4', MEASURED AT CENTERLINE OF EMBANKMENT.

3. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.

4. ELEVATION OF THE TOP OF ANY DIKE DIRECTING WATER INTO TRAP MUST EQUAL OR EXCEED THE HEIGHT OF TRAP EMBANKMENT.

5. STORAGE AREA PROVIDED SHALL BE FIGURED BY COMPUTING THE VOLUME MEASURED FROM TOP OF EXCAVATION.

6. GEOTEXTILE SHALL BE PLACED OVER THE BOTTOM AND SIDES OF THE OUTLET CHANNEL PRIOR TO PLACEMENT OF STONE. SECTION OF FABRIC MUST OVERLAP AT LEAST 1' WITH SECTION NEAREST THE ENTRANCE PLACED ON TOP. FABRIC SHALL BE EMBEDDED AT LEAST 6" INTO EXISTING GROUND AT ENTRANCE OF OUTLET CHANNEL.

7. 4" – 7" STONE SHALL BE USED TO CONSTRUCT THE WEIR AND 4" – 12" RIP–RAP SHALL BE USED TO CONSTRUCT THE OUTLET CHANNEL.

8. OUTLET – AN OUTLET SHALL INCLUDE A MEANS OF CONVEYING THE DISCHARGE IN AN EROSION THE DISCHARGE POINT SHALL BE PROVIDED AS NECESSARY.

9. OUTLET CHANNEL MUST HAVE POSITIVE DRAINAGE FROM THE TRAP.

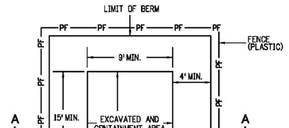
10. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 OF THE WET STORAGE DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.

11. THE STRUCTURE SHALL BE INSPECTED PERIODICALLY AFTER EACH RAIN AND REPAIRED AS NEEDED.

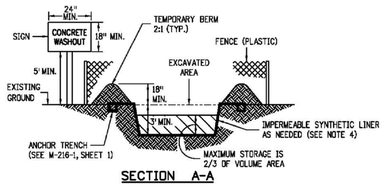
12. CONSTRUCTION OF TRAPS SHALL BE CARRIED OUT IN SUCH A MANNER THAT SEDIMENT POLLUTION IS ABATED. ONCE CONSTRUCTED, THE TOP AND OUTSIDE FACE OF THE EMBANKMENT SHALL BE STABILIZED WITH SEED AND MULCH. POINTS OF CONCENTRATED INFLOW SHALL BE PROTECTED IN ACCORDANCE WITH GRADE STABILIZATION STRUCTURE CRITERIA. THE REMAINDER OF THE INTERIOR SLOPES SHOULD BE STABILIZED (ONE TIME) WITH SEED AND MULCH UPON TRAP COMPLETION AND MONITORED AND MAINTAINED EROSION FREE DURING THE LIFE OF THE TRAP.

13. THE STRUCTURE SHALL BE DEWATERED BY APPROVED METHODS, REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

D STONE/RIP–RAP OUTLET SEDIMENT TRAP



PLAN VIEW



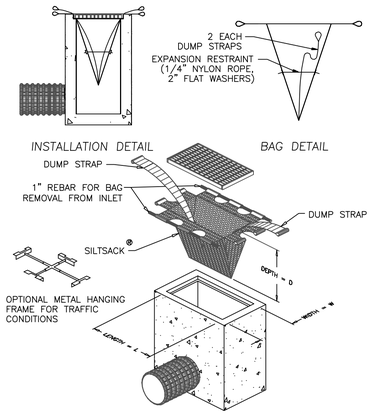
SECTION A–A

NOTES:

1. A FENCE (PLASTIC) CONFORMING TO SECTION 607 SHALL BE INSTALLED AROUND THE CONCRETE WASHOUT AREA, EXCEPT AT THE OPENING.
2. THE CONCRETE WASHOUT SIGN SHALL HAVE LETTERS AT LEAST 3 INCHES HIGH AND CONFORM TO SUBSECTION 630.02.
3. ALL MATERIALS AND LABOR TO COMPLETE THE CONCRETE WASHOUT STRUCTURE SHALL BE INCLUDED IN THE COST OF WORK AND NOT PAID FOR SEPARATELY.
4. THE BOTTOM OF EXCAVATION SHALL BE A MINIMUM OF FIVE FEET ABOVE GROUND WATER. IF NOT, IT SHALL BE LINED WITH AN IMPERMEABLE SYNTHETIC LINER THAT IS DESIGNED TO CONTROL SEEPAGE AT A MAXIMUM RATE OF 6 TO 10 CENTIMETERS PER SECOND.
5. THE PAY ITEM NUMBER FOR CONCRETE WASHOUT STRUCTURE (EACH) IS 208-00045.

CONCRETE WASHOUT STRUCTURE

E CONCRETE WASHOUT



SILTSACK® SPECIFICATIONS

NOTE: THE SILTSACK® WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS.

REGULAR FLOW SILTSACK®
(FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNITS	
GRAB TENSILE STRENGTH		ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION		ASTM D-4632	20 %
PUNCTURE		ASTM D-4833	120 LBS
MULLEN BURST		ASTM D-3786	800 PSI
TRAPEZOID TEAR		ASTM D-4533	120 LBS
UV RESISTANCE		ASTM D-4355	90 %
APPARENT OPENING SIZE		ASTM D-4751	40 US SIEVE
FLOW RATE		ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY		ASTM D-4491	0.55 SEC -1

HI-FLOW SILTSACK®
(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNITS	
GRAB TENSILE STRENGTH		ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION		ASTM D-4632	20 %
PUNCTURE		ASTM D-4833	120 LBS
MULLEN BURST		ASTM D-3786	430 PSI
TRAPEZOID TEAR		ASTM D-4533	45 LBS
UV RESISTANCE		ASTM D-4355	90 %
APPARENT OPENING SIZE		ASTM D-4751	20 US SIEVE
FLOW RATE		ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY		ASTM D-4491	1.5 SEC -1

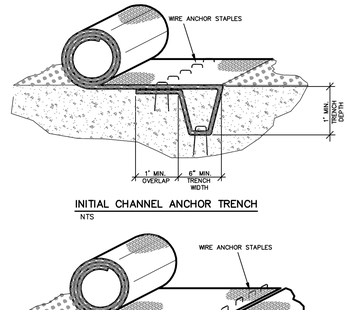
OIL-ABSORBANT SILTSACK®
(FOR AREAS WHERE THERE IS A CONCERN FOR OIL RUN-OFF OR SPILLS)

DEPENDING ON YOUR PARTICULAR APPLICATION, THE SILTSACK® CAN BE MADE FROM EITHER ONE OF THE ABOVE FABRICS WITH AN OIL-ABSORBANT PILLOW INSERT OR, MADE COMPLETELY FROM AN OIL-ABSORBANT SILTSACK®, WITH A WOVEN PILLOW INSERT.

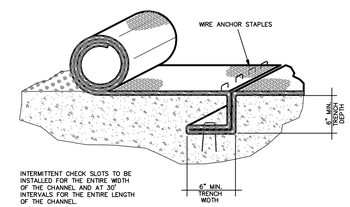
SYMBOL ON PLANS

INSTALL INLET PROTECTION AS SHOWN ON PLANS AND WHERE DESIRED FOR ADDITIONAL SEDIMENT CONTROL PROTECTION.

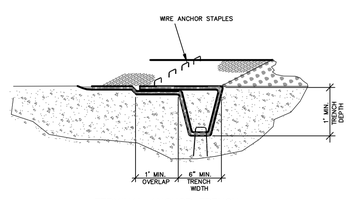
F SILT SACK INLET PROTECTION



INITIAL CHANNEL ANCHOR TRENCH
NTS



INTERMITTENT CHECK SLOT
NTS



TERMINAL ANCHOR TRENCH
NTS

G TURF REINFORCEMENT MAT

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. LEE
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

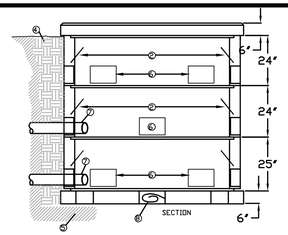
SEDIMENT CONTROL DETAILS

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

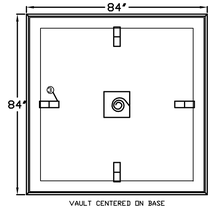
DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

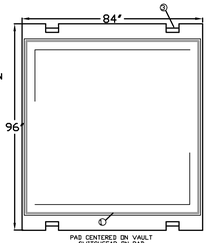
SHEET C9.10

O:\Eagle\Haymeadow-53480.5-2016\dwg\Master\Details-Ph1.dwg, 2/19/2019 9:15:00 AM, Lee

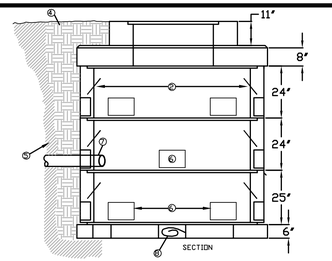


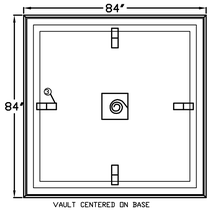
NOTES
1. TYPICAL SWITCHGEAR OUTLINE
2. LIFTING HANDLES (4) PER VAULT SECTION
3. LIFTING HOLES
4. BACKFILL TO BE WELL COMPACTED
5. SOIL UNDER BASE TO BE UNDISTURBED OR WELL COMPACTED
6. (6) KNOCKOUTS 8"X12" PER VAULT SECTION
7. CONDUIT(S) INSTALLED THROUGH KNOCKOUTS SHALL BE GROUTED
8. BOND #2 COPPER INTO GROUND SYSTEM WITH ROD AND NEUTRAL

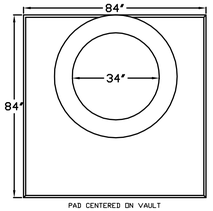




SWITCHGEAR VAULT	
1 - 40200 Large Base	~3,600 lbs.
3 - 40800 Vault, 6'x2'H	~3,000 lbs. Each
1 - 40600 Pad, Switchgear	~1,700 lbs.

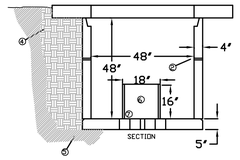


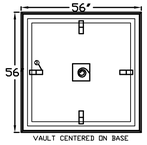


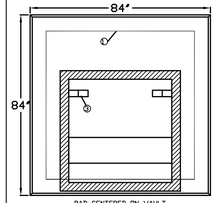


NOTES
1. TYPICAL MANHOLE OUTLINE
2. LIFTING HANDLES (2) PER VAULT SECTION
3. LIFTING HOLES
4. BACKFILL TO BE WELL COMPACTED
5. SOIL UNDER BASE TO BE UNDISTURBED OR WELL COMPACTED
6. (6) KNOCKOUTS 8"X12" PER VAULT SECTION
7. CONDUIT(S) INSTALLED THROUGH KNOCKOUTS SHALL BE GROUTED
8. BOND #2 COPPER INTO GROUND SYSTEM WITH ROD AND NEUTRAL

Splice Vault (500 MCM or Future UM1-11S)	
1 - 40200 Large Base	~3,600 lbs.
1 - 40800 Vault, 6'x2'H	~3,000 lbs. Each
1 - 40420 Pad	~4,200 lbs.

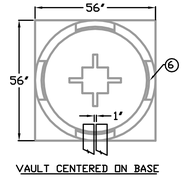


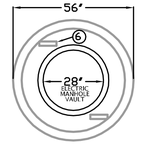


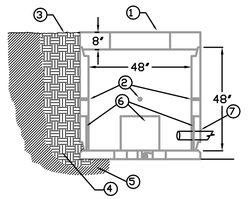


NOTES
1. TYPICAL TRANSFORMER OUTLINE
2. 3/4" HOLE (TOTAL OF FOUR)
3. LIFTING HOLES
4. BACKFILL TO BE WELL COMPACTED
5. SOIL UNDER BASE TO BE UNDISTURBED OR WELL COMPACTED
6. (4) KNOCKOUTS 16"X18" PER VAULT SECTION
7. CONDUIT(S) INSTALLED THROUGH KNOCKOUTS SHALL BE GROUTED
8. BOND #2 COPPER INTO GROUND SYSTEM WITH ROD AND NEUTRAL

THREE PHASE TRANS. VAULT (300 KVA & Smaller)	
1 - 40150 Small Base	~1,100 lbs.
1 - 40700 Vault, 4'x4'H or 40710 Vault, 4'x3'H	~3,500 lbs.
1 - 40500 Pad, 3Phase	~3,400 lbs.

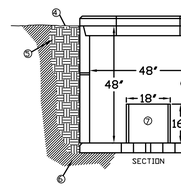


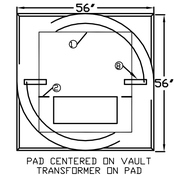


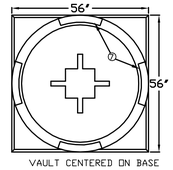


NOTES
1. 28" MANHOLE
2. 3/4" HOLE (TOTAL OF FOUR)
3. GROUND LEVEL
4. BACKFILL TO BE WELL COMPACTED
5. SOIL UNDER BASE TO BE UNDISTURBED OR WELL COMPACTED
6. FOUR KNOCKOUTS (16"X18")
7. GROUT HOLE IF CONCRETE BOTTOM IS BROKEN OUT
8. FOR CONSUMERS INSTALLING SECONDARIES, CABLE TAILS SHALL BE 60" LONG MEASURED FROM TOP OF PAD

SPLICE VAULT (Round)	
1 - 40150 Small Base	~1,100 lbs.
1 - 40750 Vault, 4'x4'H or 40760 Vault, 4'x3'H	~2,500 lbs.
1 - 40600 Pad	~1,300 lbs.





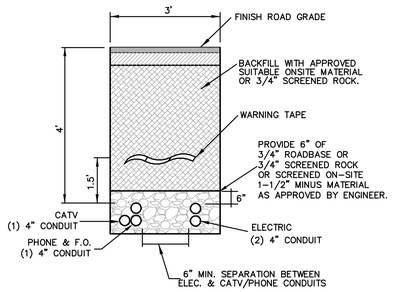


NOTES
1. TYPICAL TRANSFORMER OUTLINE
2. BACK EDGE OF TRANSFORMER OPENING
3. 3/4" HOLE (TOTAL OF FOUR)
4. GROUND LEVEL
5. BACKFILL TO BE WELL COMPACTED
6. SOIL UNDER BASE TO BE UNDISTURBED OR WELL COMPACTED
7. FOUR KNOCKOUTS (16"X18")
8. GROUT HOLE IF CONCRETE BOTTOM IS BROKEN OUT
9. FOR CONSUMERS INSTALLING SECONDARIES, CABLE TAILS SHALL BE 60" LONG MEASURED FROM TOP OF PAD

SINGLE PHASE TRANSFORMER VAULT (Round)	
1 - 40150 Small Base	~1,100 lbs.
1 - 40750 Vault, 4'x4'H or 40760 Vault, 4'x3'H	~2,500 lbs.
1 - 40410 Pad, 1Phase	~1,200 lbs.

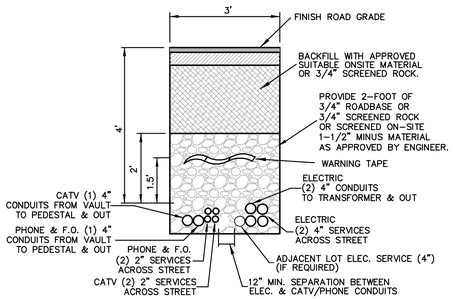
HOLY CROSS ENERGY	SWITCHGEAR VAULT SPECIFICATION	APPENDIX UM1-35
HOLY CROSS ENERGY	LARGE SPLICE VAULT SPECIFICATION	APPENDIX UM1-35L
HOLY CROSS ENERGY	3 PHASE (300 KVA OR SMALLER) TRANSFORMER VAULT SPECIFICATION	APPENDIX UM1-13S
HOLY CROSS ENERGY	SPLICE VAULT (4' Round) SPECIFICATION	APPENDIX UM30R
HOLY CROSS ENERGY	1 PHASE TRANSFORMER VAULT SPECIFICATION	APPENDIX UM1-3

A ELECTRIC VAULTS



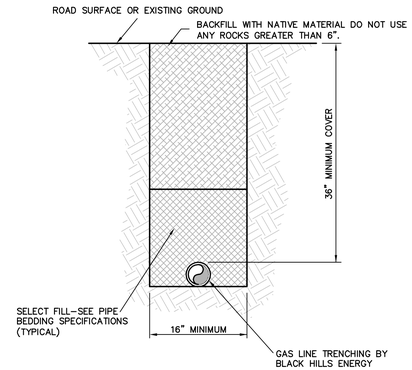
NOTE:
PROVIDE CLAY CHECK DAMS @ 100' INTERVALS IN AREAS OF HIGH GROUND WATER.

TYPICAL JOINT TRENCH



NOTE:
PROVIDE CLAY CHECK DAMS @ 100' INTERVALS IN AREAS OF HIGH GROUND WATER.

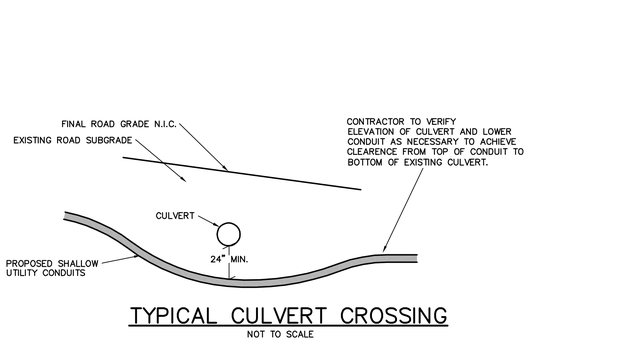
TYPICAL JOINT TRENCH MAINLINE WITH JOINT TRENCH SERVICE LINE SECTION



TYPICAL GAS TRENCH

NOT TO SCALE

B TRENCHING DETAILS



TYPICAL CULVERT CROSSING

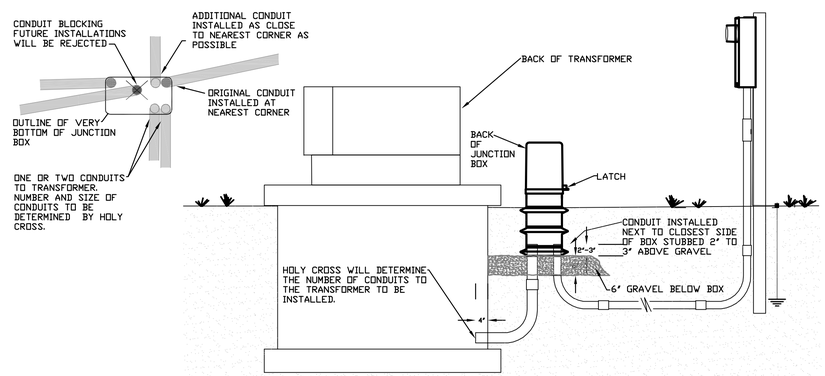
NOT TO SCALE

NOTE:
CONDUITS TO BE INSTALLED UNDER CULVERTS ONLY WHEN THE DISTANCE BETWEEN TOP OF CULVERT AND FINISH SURFACE IS LESS THEN 4.0 FT.

C CULVERT CROSSING DETAIL

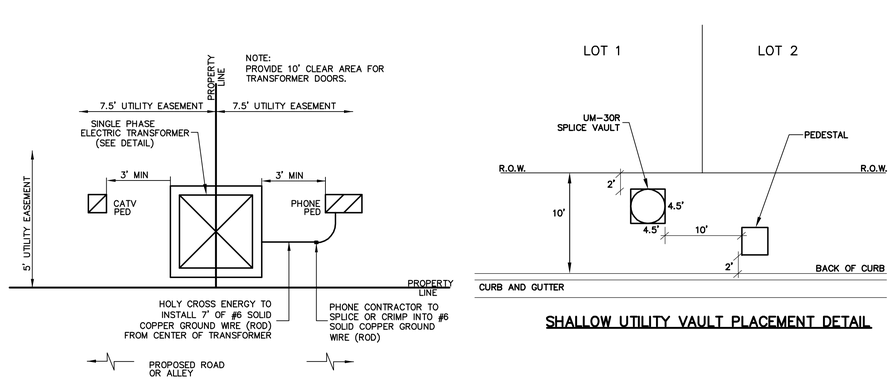
SHALLOW UTILITY NOTES

1. ALL 90° BENDS IN CONDUIT SHALL HAVE A MINIMUM OF A 3' RADIUS. ALL 90° BENDS IN FIBER OPTIC CONDUIT SHALL HAVE A MINIMUM OF A 8' RADIUS.
2. TRENCHES WITHIN ROADWAY PRISMS SHALL BE BACKFILLED AND COMPACTED TO 95% STANDARD PROCTOR. TRENCHES OUTSIDE ROADWAY PRISMS SHALL BE COMPACTED TO 90% STANDARD PROCTOR.
3. WHEN FOUR OR MORE CONDUITS ARE REQUIRED IN THE SAME TRENCH, INCREASE THE TRENCH WIDTH TO PROVIDE 1' SEPARATION BETWEEN ELECTRIC AND TELEPHONE CONDUITS.
4. SELECT FILL DENOTES NATIVE MATERIAL WITH NO ROCKS LARGER THAN 2" IN DIAMETER AND APPROVED BY THE ENGINEER. IF NO SELECT FILL EXISTS ON SITE, CONTRACTOR TO USE ROAD BASE.
5. PROVIDE 2' OF SELECT BACK FILL ABOVE CONDUITS AND LAY WARNING TAPE AS REQUIRED BY THE UTILITY COMPANIES.
6. PROVIDE 10' CLEAR AREA FOR ELECTRIC TRANSFORMER DOORS.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE CONSTRUCTION WITH ALL SHALLOW UTILITY COMPANIES AND TO HAVE ALL WORK DONE BY THE CONTRACTOR APPROVED AND ACCEPTED BY EACH RESPECTIVE SHALLOW UTILITY COMPANY.
8. THE CONTRACTOR SHALL INSTALL ALL CONDUITS, VAULTS, PADS, PULL BOXES, PULL STRINGS, AND WATER CONTROL CABLES. THE GAS LINES, TRANSFORMERS, SWITCH GEARS, AND ALL OTHER CABLES TO BE INSTALLED BY THE RESPECTIVE UTILITY COMPANY.
9. THE CONTRACTOR SHALL INSTALL CONDUITS FOR THE ELECTRIC AND PHONE LINES AS SHOWN ON THE PLANS.
10. ALL WORK SHALL COMPLY TO THE INDIVIDUAL SHALLOW UTILITY COMPANY'S RULES AND REGULATIONS.
11. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE EXISTING UNDERDRAINS DISTURBED BY CONSTRUCTION TO THE SATISFACTION OF THE ENGINEER.
12. THE CONTRACTOR SHALL INSTALL PULL STRINGS IN ALL CONDUITS WITH THE EXCEPTION OF JOINT TRENCH LOT SERVICE STUBS.



N.T.S.

D HCE JUNCTION BOX DETAIL



MINIMUM SEPARATION - PLAN

SHALLOW UTILITY VAULT PLACEMENT DETAIL

NOT TO SCALE

E SHALLOW UTILITY PLACEMENT DETAILS

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. LEE
11-8-19
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

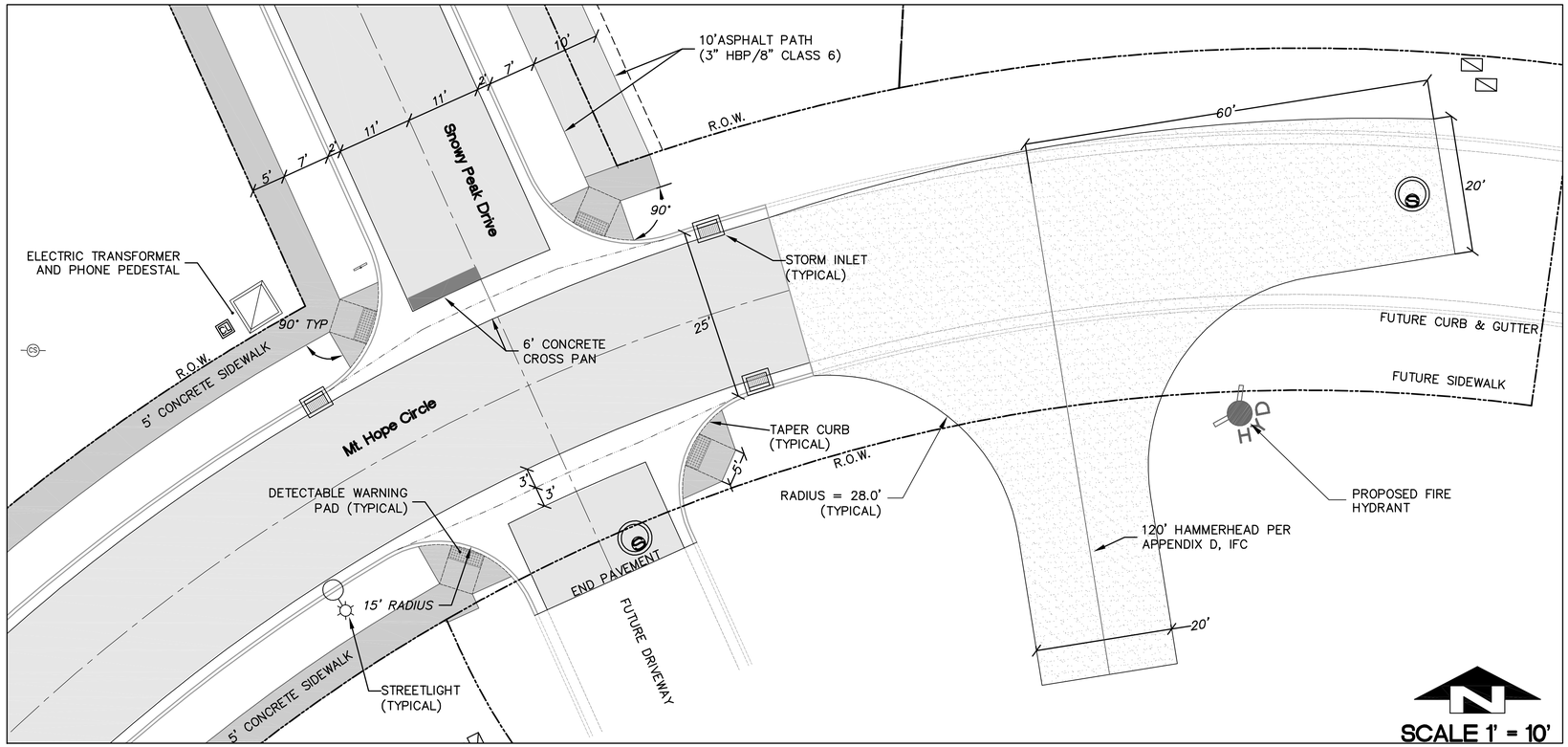
SHALLOW UTILITY DETAILS

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

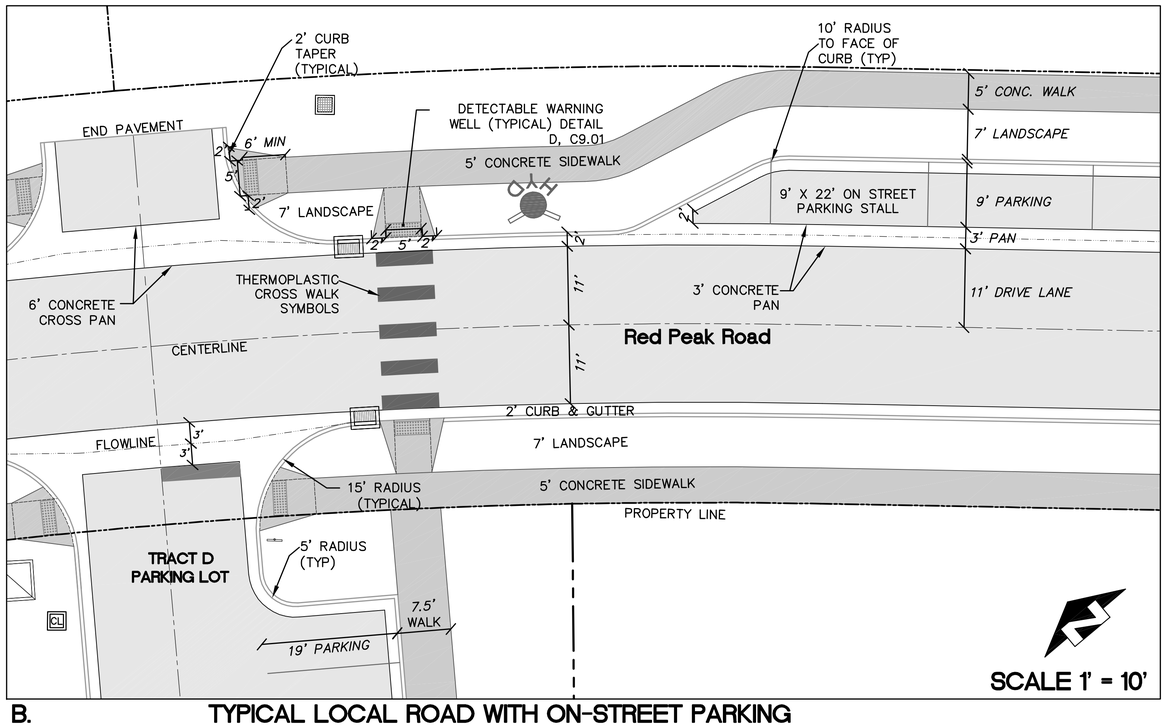
SHEET C9.11

O:\Eagle\Haymeadow-53480.5- 2016\dwg\Master\Details-Ph1.dwg, 2/19/2019 9:15:27 AM, Lee

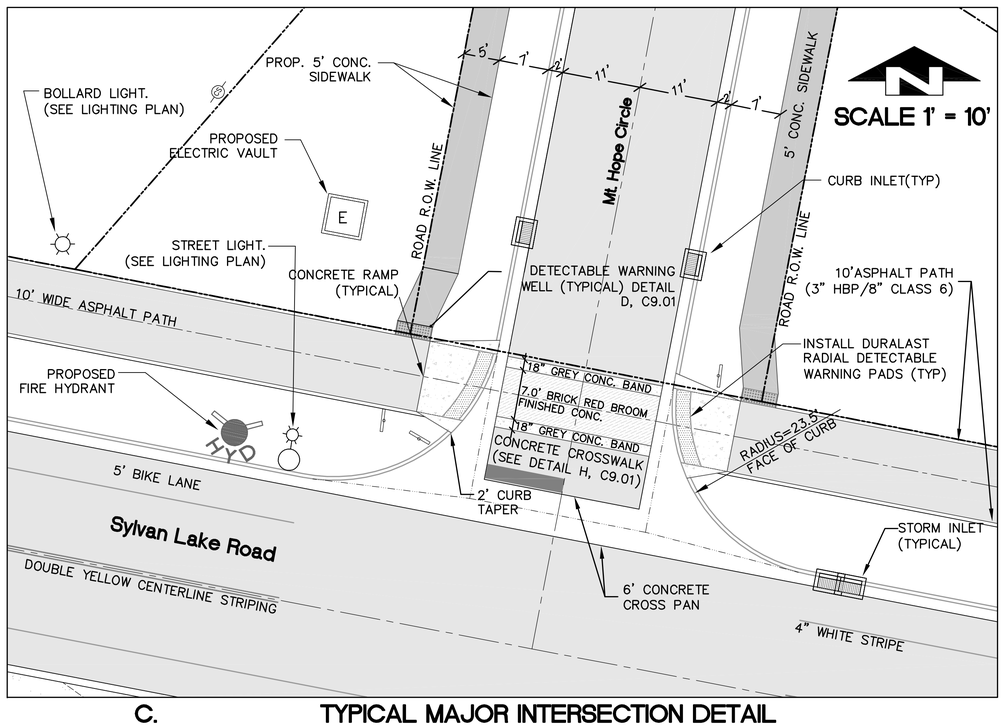


A. TYPICAL INTERSECTION AND TEMPORARY EMERGENCY VEHICLE TURNAROUND

USE CDOT CLASS B OR P CONCRETE MIX DESIGN FOR SIDEWALKS, RAMPS, AND CURB AND GUTTER.



B. TYPICAL LOCAL ROAD WITH ON-STREET PARKING



C. TYPICAL MAJOR INTERSECTION DETAIL

ALPINE ENGINEERING INC.
34510 HWY 6 / UNIT A9 / PO BOX 97
EDWARDS CO 81632 / 970.926.3373
WWW.ALPINECIVIL.COM

COLORADO LICENSED
MATTHEW C. LEE
11-8-18
39865
PROFESSIONAL ENGINEER

HAYMEADOW FILING 1

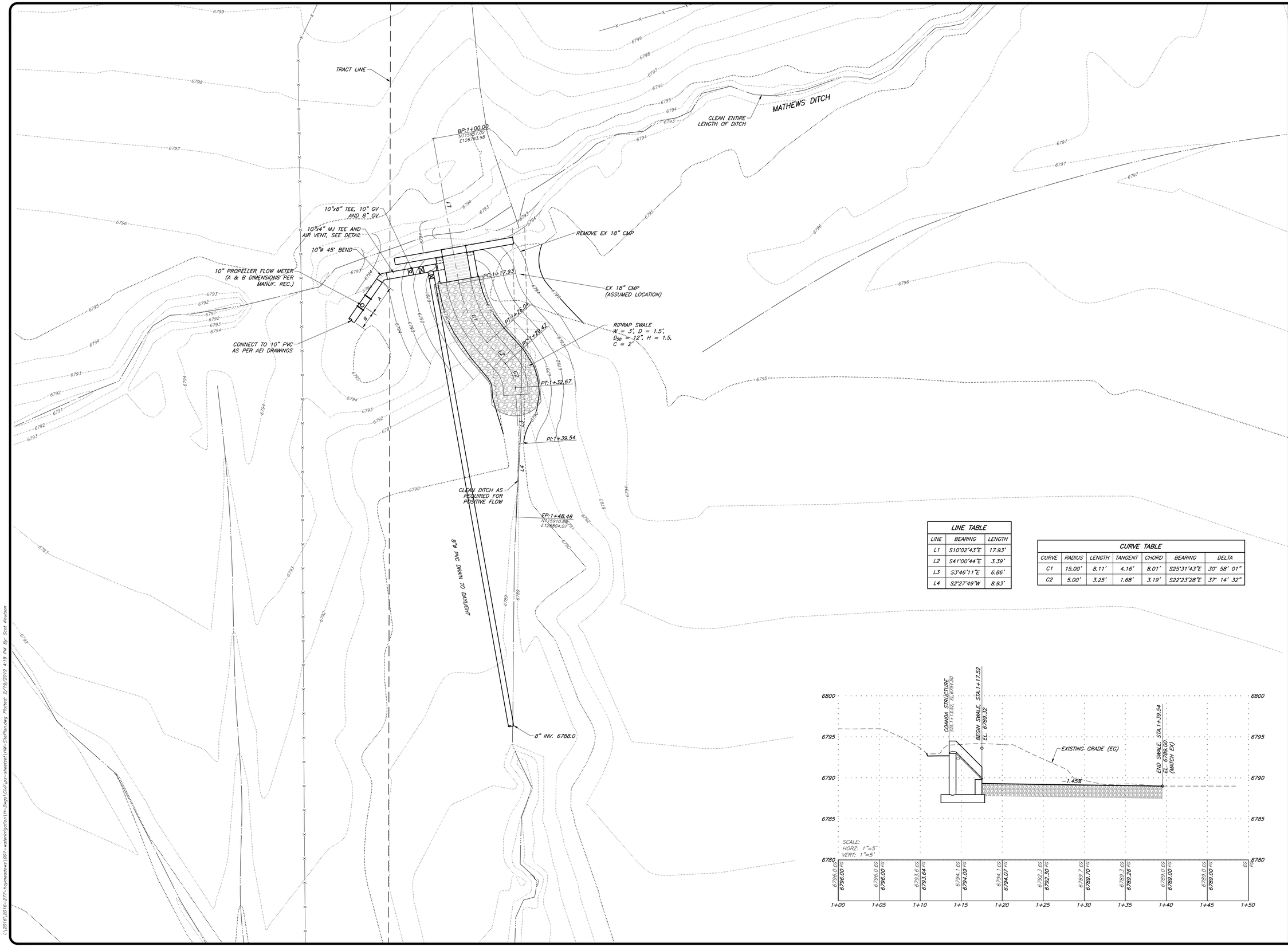
INTERSECTION DETAILS

NO.	DATE	REVISIONS	BY
	09/14/2018	FOR AGENCY REVIEW	
	02/20/2019	RESPONSE TO COMMENTS	GB

DESIGNED MW, RL
DRAWN RF
CHECKED MCW
JOB NO. 53480.5
DATE 02/20/2019

SHEET
C9.12

O:\Eagle\Haymeadow- 53480.5- 2016\dwg\Master\Intx-Det_Ph1.dwg, 2/19/2019 9:17:24 AM, Lee



LINE TABLE		
LINE	BEARING	LENGTH
L1	S10°02'43"E	17.93'
L2	S41°00'44"E	3.39'
L3	S3°46'11"E	6.86'
L4	S2°27'49"W	8.93'

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	15.00'	8.11'	4.16'	8.01'	S25°31'43"E	30° 58' 01"
C2	5.00'	3.25'	1.68'	3.19'	S22°23'28"E	37° 14' 32"

Graphic Scale
0 2 5 10
In Feet: 1" = 5'

SGM
118 West Sixth Street, Suite 200
Glenwood Springs, CO 81601
970.945.1004 www.sgm-inc.com

Haymeadow, Filing 1
Non-Potable System

#	Revision	Date	By:

Project Milestone: Preliminary Not For Construction

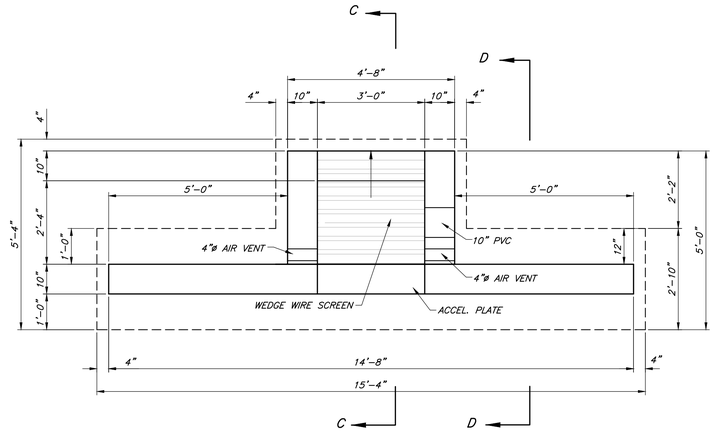
Job No.	2016-277.001
Drawn by:	FB
Date:	9.14.18
QC: DK	PE: DK
File:	HM-SitePlan

Title: Intake Site Plan

Dwg No. NP-1

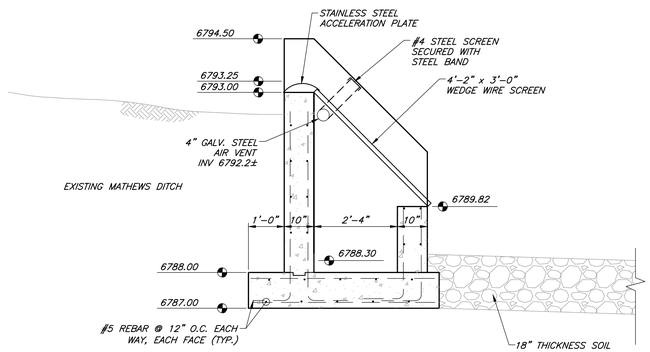
Of : 2

I:\2016\2016-277-haymeadows\001-waterirrigation\Hr-Dwgs\Civil\as-sheetset\HM-SitePlan.dwg Plotted: 2/19/2019 4:19 PM By: Scot Knutson



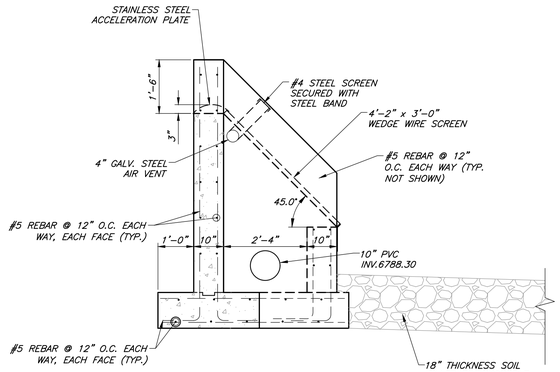
COANDA SCREEN – PLAN VIEW

SCALE: 1"= 2'-0"



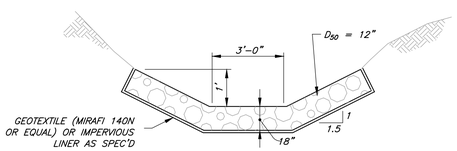
SECTION C–C

SCALE: 1"= 2'



SECTION D–D

SCALE: 1"= 2'

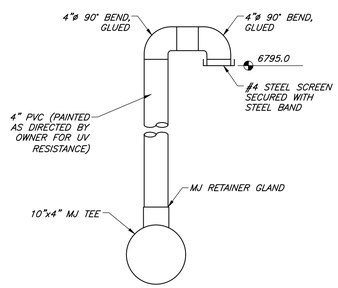


NOTE:

1. GEOTEXTILE TO BE INSTALLED PER EROSION CONTROL NETTING DETAILS.
2. REFER TO SPECS FOR RIPRAP MATERIAL, GRADATION AND INSTALLATION REQ'TS.

RIPRAP SWALE

N.T.S.



AIR VENT

SCALE: 1"= 1'

REINFORCED CONCRETE NOTES:

A. ALL STRUCTURAL CONCRETE HAS BEEN DESIGNED IN ACCORDANCE WITH ACI 318R–14 AND ACI 350–06. ALL STRUCTURAL CONCRETE CONSTRUCTION WORK SHALL CONFORM TO ACI 301–10 (OR LATEST EDITION) UNLESS NOTED OTHERWISE.

B. CAST IN PLACE CONCRETE SHALL BE MADE WITH TYPE I/II SULFATE–RESISTANT CEMENT TO MAINTAIN THE FOLLOWING REQUIREMENTS, ADMIXTURES CONTAINING CHLORIDE SALTS SHALL NOT BE USED.

W/C RATIO:	STRENGTH:	ENTRAINED AIR:
0.53	4500 PSI	5%–7%

C. CONCRETE COVERAGE FOR REINFORCING STEEL SHALL PROVIDE THE FOLLOWING:
   a. CONCRETE POURED PERMANENTLY AGAINST EARTH: 3"
   b. CONCRETE POURED IN FORMS (EXPOSED TO WEATHER, FLUID OR EARTH): 2"

D. HOT AND COLD WEATHER CONCRETING PROCEDURES SHALL CONFORM TO THE RECOMMENDATIONS IN THE ACI MANUAL OF CONCRETE PRACTICE.

E. ANY STOP IN CONCRETE WORK MUST BE MADE AT THIRD POINT OF SPAN WITH VERTICAL BULKHEADS AND HORIZONTAL SHEAR KEYS, UNLESS NOTED OTHERWISE. SLABS, FOOTINGS, BEAMS AND WALLS SHALL NOT HAVE JOINTS IN A HORIZONTAL PLANE.

F. FINISH ALL EXPOSED EDGES WITH A 3/4" CHAMFER.

COANDA SCREEN NOTES:

1. SGM/AEI TO OVERSEE ALL ASPECTS OF CONSTRUCTION..
2. TILTED WEDGE–WIRE SCREEN TO BE 1.0 MM BARS WITH 0.5 MM OPENINGS. SUPPORT BARS TO BE 1/8" BY 1" ON 2" CENTERS OR AS APPROVED BY SGM.
3. MANUFACTURER TO SUPPLY ALL ANCILLARY MATERIALS INCLUDING SUPPORT BARS, FRAME, ACCELERATION PLATE, TOE PLATE, FASTENERS, ANCHORS, ETC.
4. ALL MATERIALS TO BE STAINLESS STEEL, TYPE 304.
5. SCREEN SHALL BE DESIGNED TO CONTINUALLY PASS 1000 GPM.
6. MANUFACTURERS TO HAVE SIGNIFICANT EXPERIENCE ACCEPTABLE TO SGM AND ARE TO PROVIDE ONE (1) DAY OF FIELD SUPPORT.
7. ACCEPTABLE MANUFACTURERS INCLUDE HYDROSCREEN CO., LLC (CONTACT: BOB WEIR (800)567–4916 , RKWEIR@AOL.COM) OR AS APPROVED BY SGM

NON–POTABLE IRRIGATION SYSTEM NOTES:

1. NON–POTABLE IRRIGATION SYSTEM TO BE CONSTRUCTED AND PRESSURE TESTED IN GENERAL CONFORMANCE WITH TOWN OF EAGLE POTABLE WATER STANDARDS AS DESCRIBED IN THE SPECIFICATIONS AND STANDARD DETAILS CONTAINED IN THE TOWN'S PUBLIC WORKS MANUAL, JANUARY 2018 ACCEPT AS MODIFIED HEREIN.
2. DISINFECTION NOT REQUIRED.
3. PIPE BEDDING TO BE CLASS 6 AGGREGATE BASE COURSE COMPACTED TO 95% MODIFIED PROCTOR MAX DENSITY. REFER TO TRENCH DETAIL A2.
4. MINIMUM DEPTH OF COVER TO BE 3'.
5. TEST PRESSURE SHALL BE 120 PSI AT LOWEST POINT IN SYSTEM.
6. THRUST BLOCKS TO CONFORM TO STANDARD DETAIL B21.
7. ALL FITTINGS, TEES AND VALVES TO HAVE MECHANICAL RESTRAINTS IN ADDITION TO THRUST BLOCKS.
8. IRRIGATION MAINS 4" – 10" TO BE CL 200 IPS RING–TITE PVC OR EQUAL
9. FITTING AND TEES TO BE PUSH–ON OR MJ DUCTILE IRON MEETING OR EXCEEDING:
   MATERIALS: ASTM A–536
   JOINTS: AWWA C–111
   GASKETS: ASTM F–477
   COATING: AWWA C–153
   ACCEPTABLE MANUFACTURER HARCO (HTTP://WWW.HARCOFITTINGS.COM/PRODUCTS/DI/UTILITY/FITTINGS/) OR EQUAL .
10. MECHANICAL RESTRAINTS BY HARCO, EBAA IRON OR EQUAL AND PER APPROVED SUBMITTALS.
11. ISOLATION AND DRAIN GATE VALVES AS MANUFACTURED BY MUELLER (MJXMJ 2361–23) OR EQUAL.
12. CAST IRON VALVE BOXES AS MANUFACTURED BY TYLER UNION (HTTP://WWW.TYLERUNION.COM/PRODUCTS/CATALOG/MUNICIPAL–CASTINGS/) OR EQUAL.
13. DUCTILE IRON SERVICE SADDLE (1" TO 2") AS MANUFACTURED BY HARCO (HTTP://WWW.HARCOFITTINGS.COM/PRODUCTS/DI/IRRIGATION/SADDLES/SADDLES_002.HTM) OR EQUAL
14. SERVICE LINES TO BE AWWA C–901 PURE–CORE OR EQUAL.
15. 1" BALL CURB AND 2" GATE SERVICE VALVES TO BE AS MANUFACTURED BY MUELLER OR FLOMATIC – 1" BALL VLV PVC UTILITY FPT 1" (25) GATE VLV FPT FLOMATIC 2" 8560NPT OR EQUAL.
16. CAST IRON CURB BOX AS MANUFACTURED BY MUELLER OR TYLER UNION, OR EQUAL.
17. CONTRACTOR TO PROVIDE COMPLETE NON–POTABLE IRRIGATION MATERIALS SUBMITTAL FOR SGM APPROVAL PRIOR TO CONSTRUCTION.
18. ALL TRENCHING AND BACKFILL TO BE IN CONFORMANCE WITH PROJECT GEOTECHNICAL REPORT AND SPECIFICATIONS.
19. FLOW METER (AFTER COANDA BOX) SHALL BE A MCCOMETER MCPROPELLER W/ FS100 FLOW STRAIGHTENER, 36"(CONTRACTOR VERIFY) REGISTER EXTENSION, PLACED INSIDE A METER BOX FLUSH WITH FINISHED GRADE ELEVATION

Graphic Scale

0 ## ## ##

In Feet: 1" = ##'

SGM
118 West Sixth Street, Suite 200
Glenwood Springs, CO 81601
970.945.1004 www.sgm-inc.com

Haymeadow, Filing 1
Non-Potable System

#	Revision	Date	By:

Project Milestone: Preliminary Not For Construction

Job No.	2016-277.001
Drawn by:	FB
Date:	9.14.18
QC: DK	PE: DK
File:	HM-Details

Title:

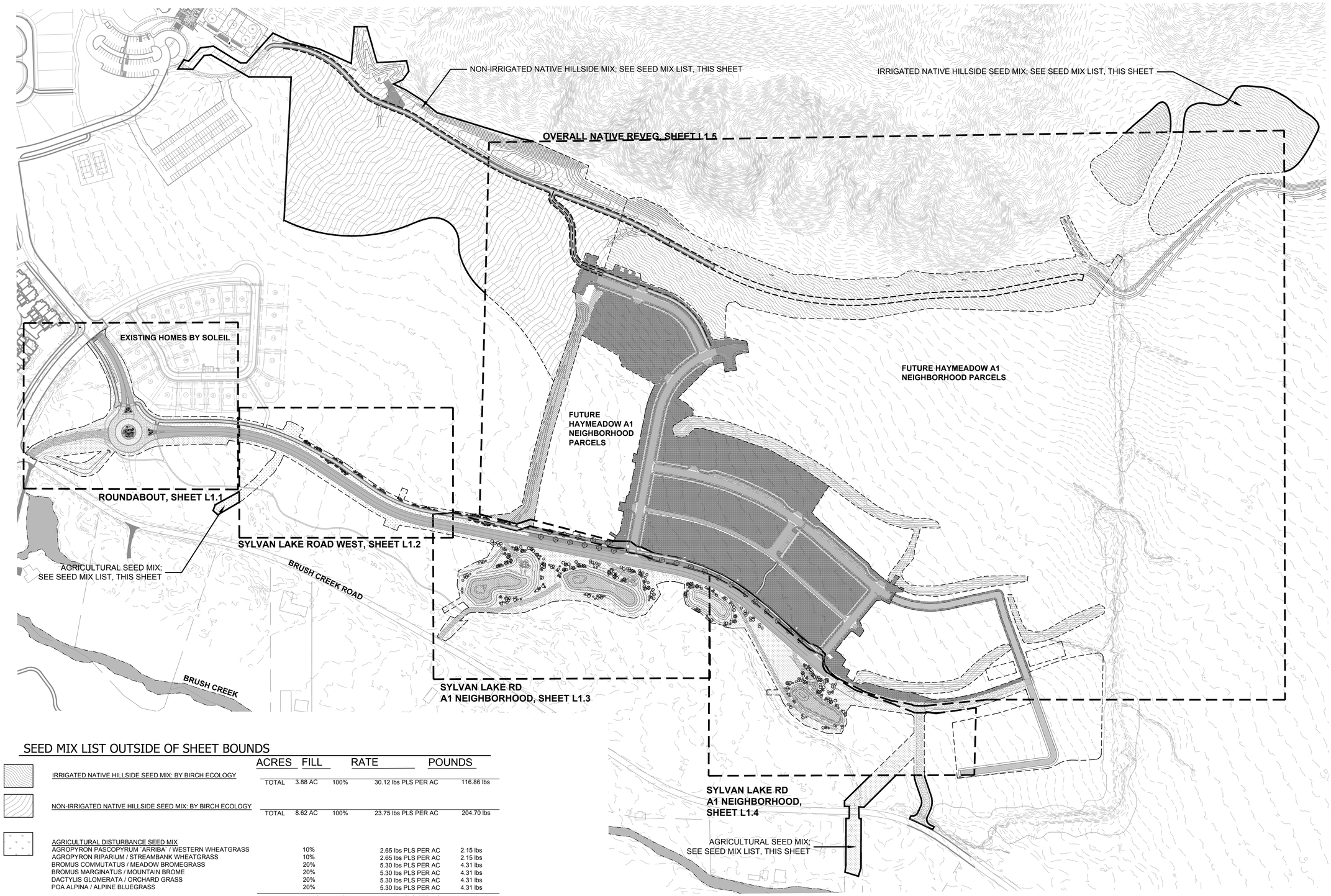
Coanda and Irrigation Details

Dwg No.

NP-2

Of : 2

J:\2016\2016-277-haymeadows\00-waterirrigation\H-Dwgs\Civil\prj-sheetset\HM-Details.dwg Plotted: 2/19/2019 4:19 PM By: Scot Knutson



SEED MIX LIST OUTSIDE OF SHEET BOUNDS

	ACRES	FILL	RATE	POUNDS
IRRIGATED NATIVE HILLSIDE SEED MIX: BY BIRCH ECOLOGY				
TOTAL	3.88 AC	100%	30.12 lbs PLS PER AC	116.86 lbs
NON-IRRIGATED NATIVE HILLSIDE SEED MIX: BY BIRCH ECOLOGY				
TOTAL	8.62 AC	100%	23.75 lbs PLS PER AC	204.70 lbs
AGRICULTURAL DISTURBANCE SEED MIX				
AGROPYRON PASCOPYRUM `ARRIBA` / WESTERN WHEATGRASS		10%	2.65 lbs PLS PER AC	2.15 lbs
AGROPYRON RIPARIUM / STREAMBANK WHEATGRASS		10%	2.65 lbs PLS PER AC	2.15 lbs
BROMUS COMMUTATUS / MEADOW BROMEGRASS		20%	5.30 lbs PLS PER AC	4.31 lbs
BROMUS MARGINATUS / MOUNTAIN BROME		20%	5.30 lbs PLS PER AC	4.31 lbs
DACTYLIS GLOMERATA / ORCHARD GRASS		20%	5.30 lbs PLS PER AC	4.31 lbs
POA ALPINA / ALPINE BLUEGRASS		20%	5.30 lbs PLS PER AC	4.31 lbs
TOTAL	.133 AC	100%	26.5 lbs PLS PER AC	3.52 lbs

NOTES:

1. **REFER TO SHEETS AS NOTED ON L1.0 FOR PLANTING ENLARGMENTS.**
2. **REFER TO SHEETS L1.1-L1.6 FOR TYPICAL LANDSCAPE AND PLANTING NOTES.**
3. **SEED QUANTITIES PROVIDED HERE ARE SPECIFIC TO THOSE AREAS NOT SHOWN ON SHEETS L1.1-L1.5.**
4. **TOTAL QUANTITY COUNTS FOR ENTIRE PROJECT AREA PROVIDED ON L1.6.**

DHM DESIGN
LANDSCAPE ARCHITECTURE
LAND PLANNING
URBAN DESIGN

311 Main Street, Suite 102
Carbondale CO. 81623 | 970.963.6520

REUSE OF DOCUMENT

This document is the property of DHM Design Corp. The ideas and design incorporated on this document is an instrument of professional service and shall not be used for any other project without written authorization of DHM Design Corp.

BIRCH ECOLOGY

Haymeadow Filing 1
Town of Eagle, Colorado

PROJECT NO: 16453.00

ISSUE:

FILING 1 PERMIT SUBMITTAL: 2018.09.14
RESPONSE TO TOWN COMMENTS: 2019.02.15

LAURA F. KIRK 172 — Professional Status of Information — Date 2019.02.15 — STATE OF COLORADO — REGISTERED LANDSCAPE ARCHITECT

SHEET TITLE:

OVERALL PLANTING PLAN

SHEET NUMBER:

L1.0

0' 75' 150' 300'

SCALE: 1"=150'

File Path: X:\Project\Haymeadow_2017 and Beyond\05_PERMIT\Access and Infrastructure\CAD\Sheets\20190204_Haymeadow_Reference Plan.dwg
Plot Date/Time: February 15, 2019 10:54 am

LEGEND

- PROPERTY BOUNDARY
- LIMITS OF DISTURBANCE
- PROPOSED CONTOURS; PER CIVIL
- 6650 EXISTING CONTOURS
- PROPOSED ASPHALT ROADS; PER CIVIL
- PROPOSED GRAVEL ROADS; PER CIVIL
- PROPOSED ROCK MULCH

PLANT LIST

SHRUBS	CODE	BOTANICAL NAME / COMMON NAME	SIZE	QTY
	CC	CARYOPTERIS X CLANDONENSIS `BLUE MIST` / BLUE MIST SHRUB	5 GAL	13
	CF	CHAMAEBATIARIA LATIFOLIA / FERNBUSH	5 GAL	10
	RG	RHUS AROMATICA `GRO-LOW` / GRO-LOW FRAGRANT SUMAC	5 GAL	75
	VA	VIBURNUM TRILOBUM / AMERICAN CRANBERRYBUSH	5 GAL	5

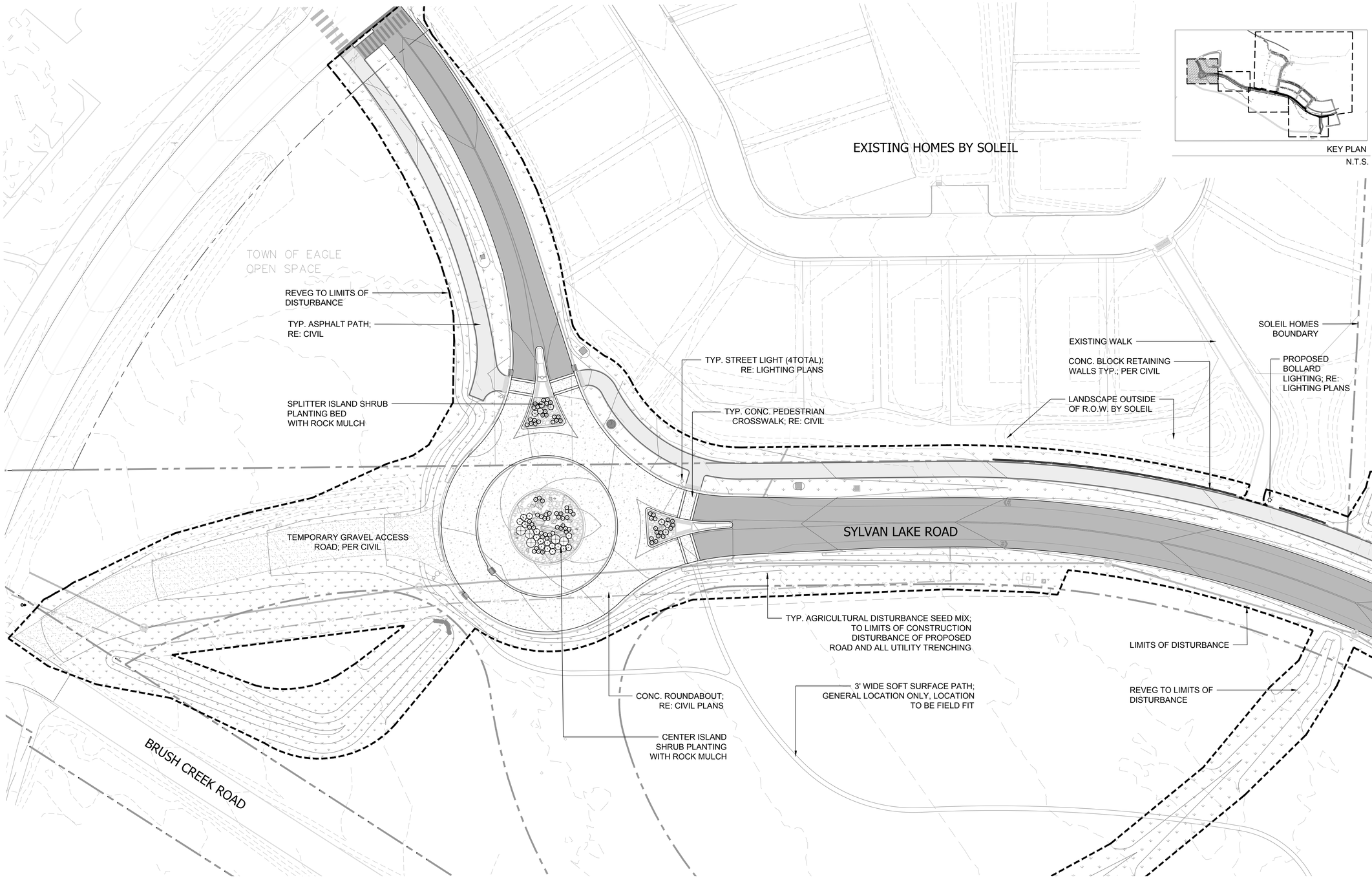
SEED MIX LIST

AGRICULTURAL DISTURBANCE SEED MIX

	ACRES	FILL	RATE	POUNDS
AGROPYRON PASCOPYRUM `ARRIBA` / WESTERN WHEATGRASS		10%	2.65 lbs PLS PER AC	1.94 lbs
AGROPYRON RIPARIUM / STREAMBANK WHEATGRASS		10%	2.65 lbs PLS PER AC	1.94 lbs
BROMUS COMMUTATUS / MEADOW BROMEGRASS		20%	5.30 lbs PLS PER AC	3.88 lbs
BROMUS MARGINATUS / MOUNTAIN BROME		20%	5.30 lbs PLS PER AC	3.88 lbs
DACTYLIS GLOMERATA / ORCHARD GRASS		20%	5.30 lbs PLS PER AC	3.88 lbs
POA ALPINA / ALPINE BLUEGRASS		20%	5.30 lbs PLS PER AC	3.88 lbs
TOTAL	1.15 AC	100%	26.5 lbs PLS PER AC	30.48 lbs

NOTES:

1. REFER TO CIVIL DRAWING SET FOR EXTENTS OF ALL PROPOSED SITE GRADING AND PROPOSED UTILITIES.
2. ALL DISTURBED AREAS TO BE RE-VEGETATED WITH SPECIFIED SEED MIXES. REFER TO PLANS FOR THE SPECIFIC LOCATIONS AND DISTRIBUTION OF SEEDING. AREAS OF SEEDING ON PLANS ARE APPROXIMATE AND ARE TO BE ADJUSTED PER ACTUAL LIMITS OF DISTURBANCE IN FIELD. REFER TO CIVIL PLANS FOR UTILITY LOCATIONS PER FILING 1.
3. LAYOUT FOR ROUNDABOUT PLANTING BED IS FOR ILLUSTRATIVE PURPOSES ONLY. FINAL PLANTING AND BOULDER LAYOUT TO BE FIELD LOCATED.
4. PLANT SPECIES AND QUANTITIES ARE SPECIFIC TO THIS SHEET. REFER TO SHEET L1.6 FOR FULL LIST OF PLANTS AND SEED MIX SPECIES PROVIDED BY DHM DESIGN AND BIRCH ECOLOGY.



KEY PLAN
N.T.S.

DHM DESIGN
LANDSCAPE ARCHITECTURE
LAND PLANNING
URBAN DESIGN

311 Main Street, Suite 102
Carbondale CO. 81623 | 970.963.6520

REUSE OF DOCUMENT

This document is the property of DHM Design Corp. The ideas and design incorporated on this document is an instrument of professional service and shall not be used for any other project without written authorization of DHM Design Corp.

BIRCH ECOLOGY

Haymeadow Filing 1

Town of Eagle, Colorado

PROJECT NO: 16453.00

ISSUE:

FILING 1 PERMIT SUBMITTAL: 2018.09.14
RESPONSE TO TOWN COMMENTS: 2019.02.15

LAURA F. KIRK 172 PROFESSIONAL Colorado Member ASLA STATE OF COLORADO REGISTERED LANDSCAPE ARCHITECT

SHEET TITLE:

SYLVAN LAKE RD ROUNDABOUT

SHEET NUMBER:

L1.1

0' 15' 30' 60'

SCALE: 1"=30'

File Path: X:\Projects\Haymeadow_2017 and Beyond\6_PERMIT\Access and Infrastructure\CAD\Sheets\20190204_Haymeadow_Planting.dwg
Plot Date/Time: February 04, 2019 - 4:06 pm

PLANT LIST

DECIDUOUS TREES	CODE	BOTANICAL / COMMON NAME	CONT	QTY
	AB	ACER NEGUNDO `SENSATION` SENSATION BOX ELDER MAPLE	3" CAL B&B	7
	SM2	AMELANCHIER ALNIFOLIA SASKATOON SERVICEBERRY	5 GAL	62
	SM	AMELANCHIER ALNIFOLIA `REGENT` SASKATOON SERVICEBERRY	6` CL B&B	31

LEGEND

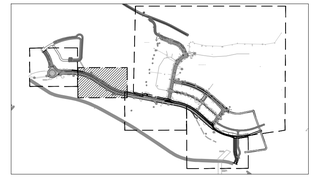
- PROPERTY BOUNDARY
- LIMITS OF DISTURBANCE
- PROPOSED CONTOURS; PER CIVIL
- 6650 EXISTING CONTOURS
- PROPOSED ASPHALT ROADS; PER CIVIL
- PROPOSED GRAVEL ROADS; PER CIVIL

NOTES:

1. REFER TO CIVIL DRAWING SET FOR EXTENTS OF ALL PROPOSED SITE GRADING AND PROPOSED UTILITIES.
2. ALL DISTURBED AREAS TO BE RE-VEGETATED WITH SPECIFIED SEED MIXES. REFER TO PLANS FOR THE SPECIFIC LOCATIONS AND DISTRIBUTION OF SEEDING. AREAS OF SEEDING ON PLANS ARE APPROXIMATE AND ARE TO BE ADJUSTED PER ACTUAL LIMITS OF DISTURBANCE IN FIELD. REFER TO CIVIL PLANS FOR UTILITY LOCATIONS PER FILING 1.
3. PLANT SPECIES AND QUANTITIES ARE SPECIFIC TO THIS SHEET. REFER TO SHEET L1.6 FOR FULL LIST OF PLANTS AND SEED MIX SPECIES PROVIDED BY DHM DESIGN AND BIRCH ECOLOGY.

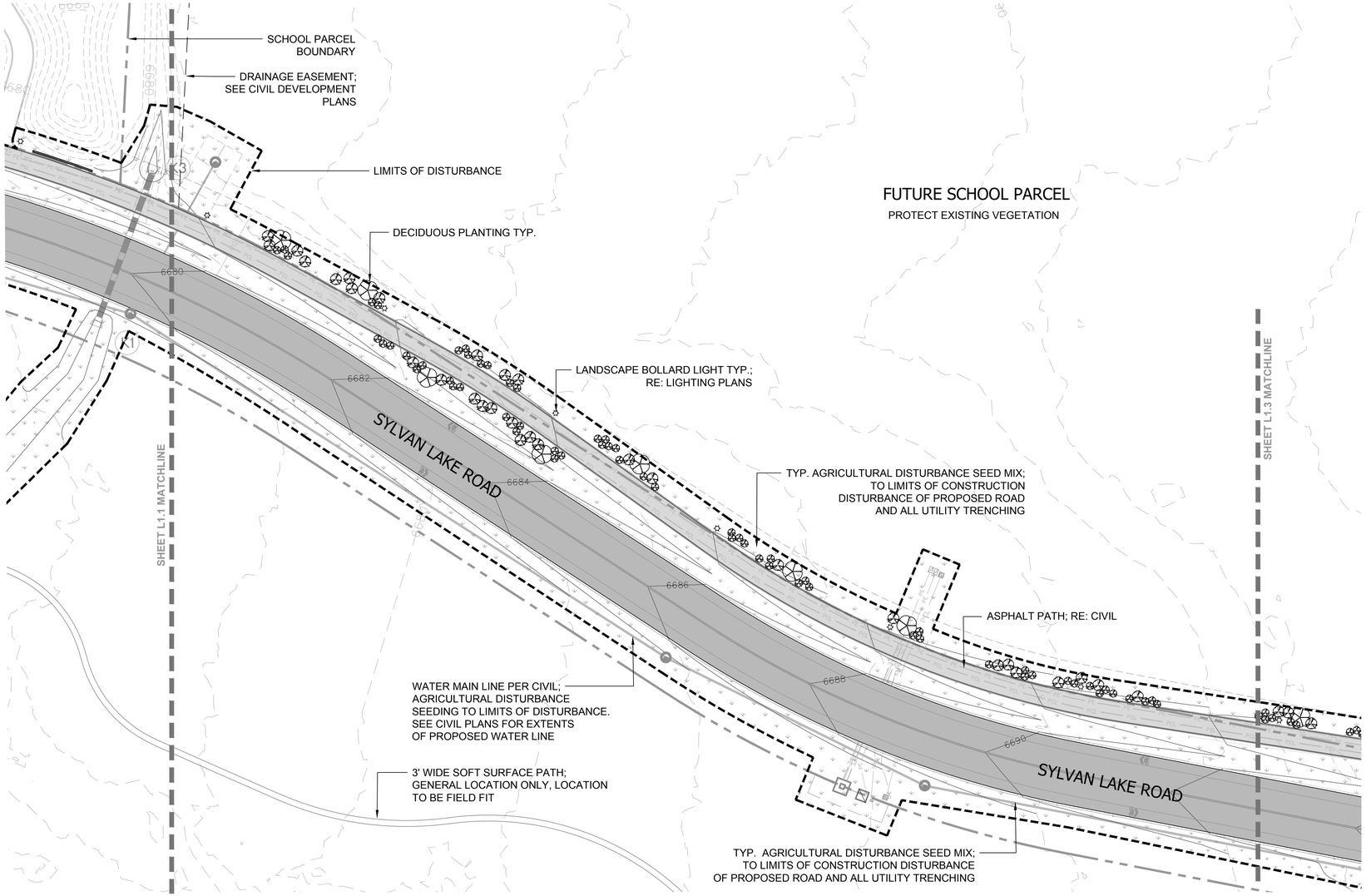
SEED MIX LIST

AGRICULTURAL DISTURBANCE SEED MIX	ACRES	FILL	RATE	POUNDS
AGROPYRON PASCOPYRUM `ARRIBA` / WESTERN WHEATGRASS		10%	2.65 lbs PLS PER AC	2.15 lbs
AGROPYRON RIPARIUM / STREAMBANK WHEATGRASS		10%	2.65 lbs PLS PER AC	2.15 lbs
BROMUS COMMUTATUS / MEADOW BROMEGRASS		20%	5.30 lbs PLS PER AC	4.31 lbs
BROMUS MARGINATUS / MOUNTAIN BROME		20%	5.30 lbs PLS PER AC	4.31 lbs
DACTYLIS GLOMERATA / ORCHARD GRASS		20%	5.30 lbs PLS PER AC	4.31 lbs
POA ALPINA / ALPINE BLUEGRASS		20%	5.30 lbs PLS PER AC	4.31 lbs
TOTAL	.87 AC	100%	26.5 lbs PLS PER AC	23.05 lbs



KEY PLAN

N.T.S.



DHM DESIGN
LANDSCAPE ARCHITECTURE
LAND PLANNING
URBAN DESIGN

311 Main Street, Suite 102
Carbondale CO. 81623 | 970.963.6520

REUSE OF DOCUMENT

This document is the property of DHM Design Corp. The ideas and design incorporated on this document is an instrument of professional service and shall not be used for any other project without written authorization of DHM Design Corp.

BIRCH ECOLOGY

Haymeadow Filing 1

Town of Eagle, Colorado

PROJECT NO: 16453.00

ISSUE:

FILING 1 PERMIT SUBMITTAL: 2018.09.14
RESPONSE TO TOWN COMMENTS: 2019.02.15

LAURA F. KIRK 172 PROFESSIONAL Colorado State of Mexico REGISTERED LANDSCAPE ARCHITECT STATE OF COLORADO

SHEET TITLE:

SYLVAN LAKE RD WEST

SHEET NUMBER:

L1.2

0' 15' 30' 60'

SCALE: 1"=30'

File Path: X:\Projects\Haymeadow_2017 and Beyond\6_PERMIT\Access and Infrastructure\CAD\Sheets\20190204_Haymeadow_Planting.dwg
Plot Date/Time: February 04, 2019 - 4:31 pm

LEGEND

- PROPERTY BOUNDARY
- LIMITS OF DISTURBANCE
- PROPOSED CONTOURS; PER CIVIL
- 6650 EXISTING CONTOURS
- PROPOSED ASPHALT ROADS; PER CIVIL
- PROPOSED GRAVEL ROADS; PER CIVIL

NOTES

1. REFER TO CIVIL DRAWING SET FOR EXTENTS OF ALL PROPOSED SITE GRADING AND PROPOSED UTILITIES.
2. ALL DISTURBED AREAS TO BE RE-VEGETATED WITH SPECIFIED NATIVE SEED MIXES. REFER TO PLANS FOR THE SPECIFIC LOCATIONS AND DISTRIBUTION OF SEEDING. AREAS OF SEEDING ON PLANS ARE APPROXIMATE AND ARE TO BE ADJUSTED PER ACTUAL LIMITS OF DISTURBANCE IN FIELD. REFER TO CIVIL PLANS FOR UTILITY LOCATIONS PER FILING 1.
3. PLANT SPECIES AND QUANTITIES ARE SPECIFIC TO THIS SHEET. REFER TO SHEET L1.6 FOR FULL LIST OF PLANTS AND SEED MIX SPECIES PROVIDED BY DHM DESIGN AND BIRCH ECOLOGY.

PLANT LIST

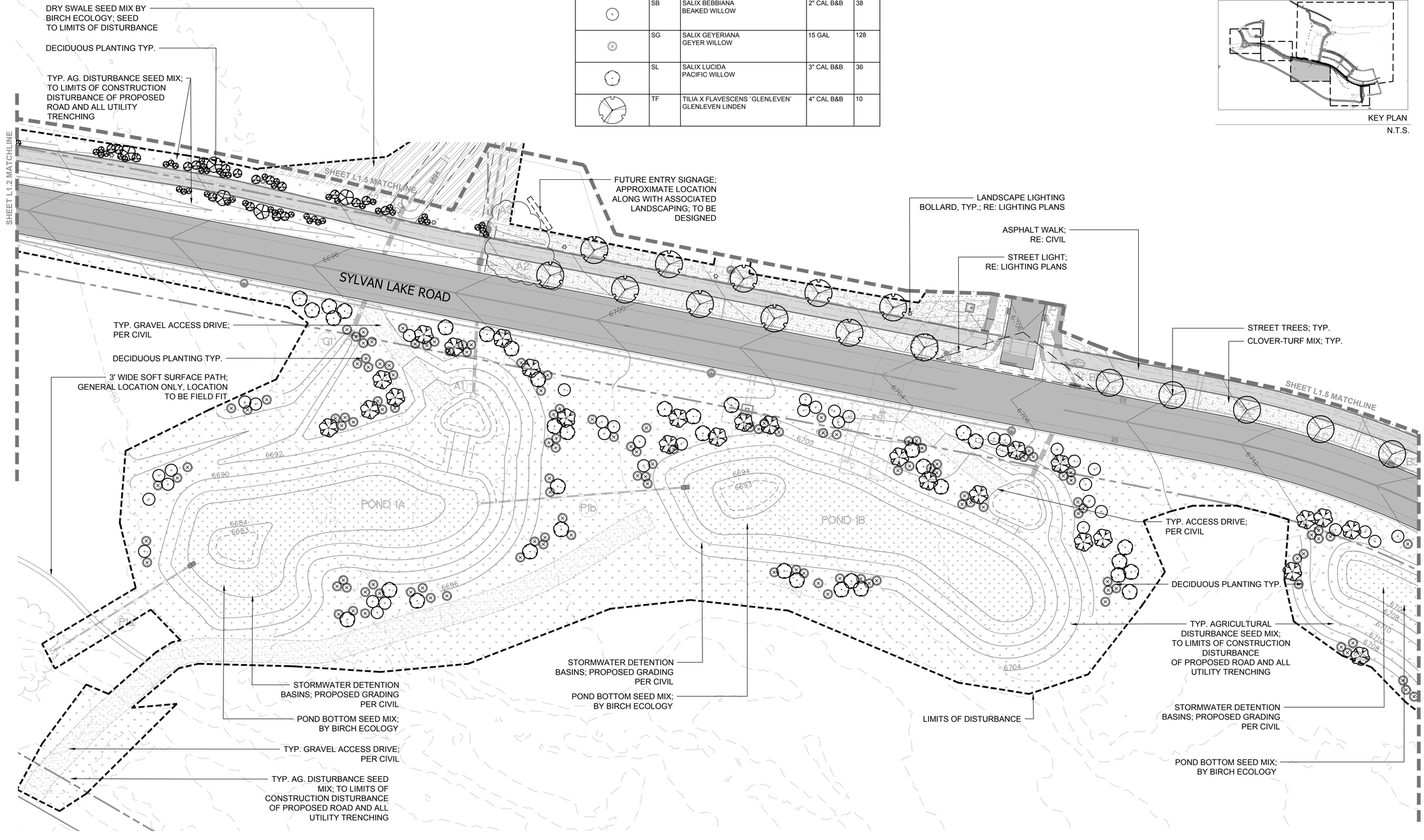
DECIDUOUS TREES	CODE	BOTANICAL / COMMON NAME	CONT	QTY
	AA	ACER FREEMANII `AUTUMN BLAZE` AUTUMN BLAZE MAPLE	4" CAL B&B	5
	AB	ACER NEGUNDO `SENSATION` SENSATION BOX ELDER MAPLE	3" CAL B&B	5
	SM2	AMELANCHIER ALNIFOLIA SASKATOON SERVICEBERRY	5 GAL	49
	SM	AMELANCHIER ALNIFOLIA `REGENT` SASKATOON SERVICEBERRY	5` CL B&B	18
	BO	BETULA OCCIDENTALIS WATER BIRCH	2" CAL B&B	26
	PC	PRUNUS VIRGINIANA `CANADA RED` CANADA RED CHOKECHERRY	4" CAL B&B	1
	SB	SALIX BEBBIANA BEAKED WILLOW	2" CAL B&B	38
	SG	SALIX GEYERIANA GEYER WILLOW	15 GAL	128
	SL	SALIX LUCIDA PACIFIC WILLOW	3" CAL B&B	36
	TF	TILIA X FLAVESCENS `GLENLEVEN` GLENLEVEN LINDEN	4" CAL B&B	10

SEED MIX LIST

	ACRES	FILL	RATE	POUNDS
TURF-CLOVER MIX				
POA PRATENSIS / KENTUCKY BLUEGRASS		50%	2 lbs PLS PER AC	.512 lbs
TRIFOLIUM REPENS / WHITE CLOVER		50%	2 lbs PLS PER AC	.512 lbs
TOTAL	.256 AC	100%	4 lbs PLS PER AC	2.05 lbs
AGRICULTURAL DISTURBANCE SEED MIX				
AGROPYRON PASCOPYRUM `ARRIBA` / WESTERN WHEATGRASS		10%	2.65 lbs PLS PER AC	2.15 lbs
AGROPYRON RIPARIUM / STREAMBANK WHEATGRASS		10%	2.65 lbs PLS PER AC	2.15 lbs
BROMUS COMMUTATUS / MEADOW BROMEGRASS		20%	5.30 lbs PLS PER AC	4.32 lbs
BROMUS MARGINATUS / MOUNTAIN BROME		20%	5.30 lbs PLS PER AC	4.32 lbs
DACTYLIS GLOMERATA / ORCHARD GRASS		20%	5.30 lbs PLS PER AC	4.32 lbs
POA ALPINA / ALPINE BLUEGRASS		20%	5.30 lbs PLS PER AC	4.32 lbs
TOTAL	2.52 AC	100%	26.5 lbs PLS PER AC	66.78 lbs
DRY SWALE SEED MIX: BY BIRCH ECOLOGY				
TOTAL	.269 AC	100%	27.18 lbs PLS PER AC	7.31 lbs
DETENTION POND BOTTOM SEED MIX: BY BIRCH ECOLOGY				
TOTAL	.680 AC	100%	18.28 lbs PLS PER AC	12.43 lbs

FUTURE SCHOOL PARCEL

PROTECT EXISTING VEGETATION



KEY PLAN

N.T.S.

DHM DESIGN
LANDSCAPE ARCHITECTURE
LAND PLANNING
URBAN DESIGN

311 Main Street, Suite 102
Carbondale CO. 81623 | 970.963.6520

REUSE OF DOCUMENT

This document is the property of DHM Design Corp. The ideas and design incorporated on this document is an instrument of professional service and shall not be used for any other project without written authorization of DHM Design Corp.

BIRCH ECOLOGY

Haymeadow Filing 1

Town of Eagle, Colorado

PROJECT NO: 16453.00

ISSUE:

FILING 1 PERMIT SUBMITTAL: 2018.09.14
RESPONSE TO TOWN COMMENTS: 2019.02.15

LAURA F. KIRK 172 — REGISTERED LANDSCAPE ARCHITECT — STATE OF COLORADO

SHEET TITLE:

SYLVAN LAKE RD
A1 NEIGHBORHOOD

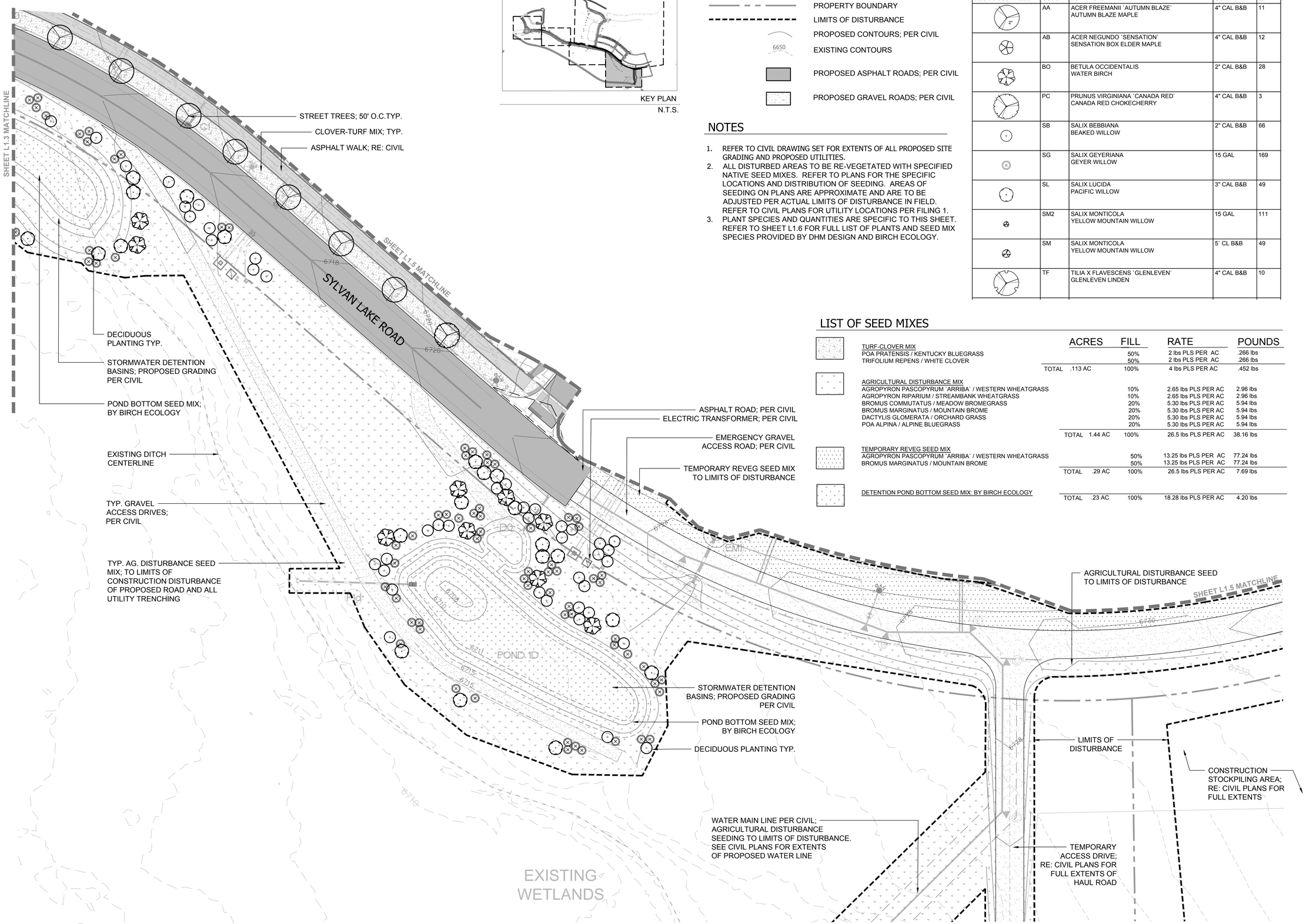
SHEET NUMBER:

L1.3

0' 30' 60' 120'

SCALE: 1"=60'

File Path: X:\Projects\Haymeadow_2017 and Beyond\6_PERMIT\Access and Infrastructure\CAD\Sheets\20190204_Haymeadow_Planting.dwg
Plot date/time: February 04, 2019 - 4:59 pm


SHEET L1.3 MATCHLINE
STREET TREES; 50' O.C.TYP.
CLOVER-TURF MIX; TYP.
ASPHALT WALK; RE: CIVIL
SHEET L1.5 MATCHLINE
SYLVAN LAKE ROAD
6718
6720
DECIDUOUS PLANTING TYP.
STORMWATER DETENTION BASINS; PROPOSED GRADING PER CIVIL
POND BOTTOM SEED MIX; BY BIRCH ECOLOGY
EXISTING DITCH CENTERLINE
TYP. GRAVEL ACCESS DRIVES; PER CIVIL
TYP. AG. DISTURBANCE SEED MIX; TO LIMITS OF CONSTRUCTION DISTURBANCE OF PROPOSED ROAD AND ALL UTILITY TRENCHING
ASPHALT ROAD; PER CIVIL
ELECTRIC TRANSFORMER; PER CIVIL
EMERGENCY GRAVEL ACCESS ROAD; PER CIVIL
TEMPORARY REVEG SEED MIX TO LIMITS OF DISTURBANCE
D0
EMH
6725
6730
6735
6740
6745
6750
6755
6760
6765
6770
6775
6780
6785
6790
6795
6800
6805
6810
6815
6820
6825
6830
6835
6840
6845
6850
6855
6860
6865
6870
6875
6880
6885
6890
6895
6900
6905
6910
6915
6920
6925
6930
6935
6940
6945
6950
6955
6960
6965
6970
6975
6980
6985
6990
6995
7000
7005
7010
7015
7020
7025
7030
7035
7040
7045
7050
7055
7060
7065
7070
7075
7080
7085
7090
7095
7100
7105
7110
7115
7120
7125
7130
7135
7140
7145
7150
7155
7160
7165
7170
7175
7180
7185
7190
7195
7200
7205
7210
7215
7220
7225
7230
7235
7240
7245
7250
7255
7260
7265
7270
7275
7280
7285
7290
7295
7300
7305
7310
7315
7320
7325
7330
7335
7340
7345
7350
7355
7360
7365
7370
7375
7380
7385
7390
7395
7400
7405
7410
7415
7420
7425
7430
7435
7440
7445
7450
7455
7460
7465
7470
7475
7480
7485
7490
7495
7500
7505
7510
7515
7520
7525
7530
7535
7540
7545
7550
7555
7560
7565
7570
7575
7580
7585
7590
7595
7600
7605
7610
7615
7620
7625
7630
7635
7640
7645
7650
7655
7660
7665
7670
7675
7680
7685
7690
7695
7700
7705
7710
7715
7720
7725
7730
7735
7740
7745
7750
7755
7760
7765
7770
7775
7780
7785
7790
7795
7800
7805
7810
7815
7820
7825
7830
7835
7840
7845
7850
7855
7860
7865
7870
7875
7880
7885
7890
7895
7900
7905
7910
7915
7920
7925
7930
7935
7940
7945
7950
7955
7960
7965
7970
7975
7980
7985
7990
7995
8000
8005
8010
8015
8020
8025
8030
8035
8040
8045
8050
8055
8060
8065
8070
8075
8080
8085
8090
8095
8100
8105
8110
8115
8120
8125
8130
8135
8140
8145
8150
8155
8160
8165
8170
8175
8180
8185
8190
8195
8200
8205
8210
8215
8220
8225
8230
8235
8240
8245
8250
8255
8260
8265
8270
8275
8280
8285
8290
8295
8300
8305
8310
8315
8320
8325
8330
8335
8340
8345
8350
8355
8360
8365
8370
8375
8380
8385
8390
8395
8400
8405
8410
8415
8420
8425
8430
8435
8440
8445
8450
8455
8460
8465
8470
8475
8480
8485
8490
8495
8500
8505
8510
8515
8520
8525
8530
8535
8540
8545
8550
8555
8560
8565
8570
8575
8580
8585
8590
8595
8600
8605
8610
8615
8620
8625
8630
8635
8640
8645
8650
8655
8660
8665
8670
8675
8680
8685
8690
8695
8700
8705
8710
8715
8720
8725
8730
8735
8740
8745
8750
8755
8760
8765
8770
8775
8780
8785
8790
8795
8800
8805
8810
8815
8820
8825
8830
8835
8840
8845
8850
8855
8860
8865
8870
8875
8880
8885
8890
8895
8900
8905
8910
8915
8920
8925
8930
8935
8940
8945
8950
8955
8960
8965
8970
8975
8980
8985
8990
8995
9000
9005
9010
9015
9020
9025
9030
9035
9040
9045
9050
9055
9060
9065
9070
9075
9080
9085
9090
9095
9100
9105
9110
9115
9120
9125
9130
9135
9140
9145
9150
9155
9160
9165
9170
9175
9180
9185
9190
9195
9200
9205
9210
9215
9220
9225
9230
9235
9240
9245
9250
9255
9260
9265
9270
9275
9280
9285
9290
9295
9300
9305
9310
9315
9320
9325
9330
9335
9340
9345
9350
9355
9360
9365
9370
9375
9380
9385
9390
9395
9400
9405
9410
9415
9420
9425
9430
9435
9440
9445
9450
9455
9460
9465
9470
9475
9480
9485
9490
9495
9500
9505
9510
9515
9520
9525
9530
9535
9540
9545
9550
9555
9560
9565
9570
9575
9580
9585
9590
9595
9600
9605
9610
9615
9620
9625
9630
9635
9640
9645
9650
9655
9660
9665
9670
9675
9680
9685
9690
9695
9700
9705
9710
9715
9720
9725
9730
9735
9740
9745
9750
9755
9760
9765
9770
9775
9780
9785
9790
9795
9800
9805
9810
9815
9820
9825
9830
9835
9840
9845
9850
9855
9860
9865
9870
9875
9880
9885
9890
9895
9900
9905
9910
9915
9920
9925
9930
9935
9940
9945
9950
9955
9960
9965
9970
9975
9980
9985
9990
9995
10000
10005
10010
10015
10020
10025
10030
10035
10040
10045
10050
10055
10060
10065
10070
10075
10080
10085
10090
10095
10100
10105
10110
10115
10120
10125
10130
10135
10140
10145
10150
10155
10160
10165
10170
10175
10180
10185
10190
10195
10200
10205
10210
10215
10220
10225
10230
10235
10240
10245
10250
10255
10260
10265
10270
10275
10280
10285
10290
10295
10300
10305
10310
10315
10320
10325
10330
10335
10340
10345
10350
10355
10360
10365
10370
10375
10380
10385
10390
10395
10400
10405
10410
10415
10420
10425
10430
10435
10440
10445
10450
10455
10460
10465
10470
10475
10480
10485
10490
10495
10500
10505
10510
10515
10520
10525
10530
10535
10540
10545
10550
10555
10560
10565
10570
10575
10580
10585
10590
10595
10600
10605
10610
10615
10620
10625
10630
10635
10640
10645
10650
10655
10660
10665
10670
10675
10680
10685
10690
10695
10700
10705
10710
10715
10720
10725
10730
10735
10740
10745
10750
10755
10760
10765
10770
10775
10780
10785
10790
10795
10800
10805
10810
10815
10820
10825
10830
10835
10840
10845
10850
10855
10860
10865
10870
10875
10880
10885
10890
10895
10900
10905
10910
10915
10920
10925
10930
10935
10940
10945
10950
10955
10960
10965
10970
10975
10980
10985
10990
10995
11000
11005
11010
11015
11020
11025
11030
11035
11040
11045
11050
11055
11060
11065
11070
11075
11080
11085
11090
11095
11100
11105
11110
11115
11120
11125
11130
11135
11140
11145
11150
11155
11160
11165
11170
11175
11180
11185
11190
11195
11200
11205
11210
11215
11220
11225
11230
11235
11240
11245
11250
11255
11260
11265
11270
11275
11280
11285
11290
11295
11300
11305
11310
11315
11320
11325
11330
11335
11340
11345
11350
11355
11360
11365
11370
11375
11380
11385
11390
11395
11400
11405
11410
11415
11420
11425
11430
11435
11440
11445
11450
11455
11460
11465
11470
11475
11480
11485
11490
11495
11500
11505
11510
11515
11520
11525
11530
11535
11540
11545
11550
11555
11560
11565
11570
11575
11580
11585
11590
11595
11600
11605
11610
11615
11620
11625
11630
11635
11640
11645
11650
11655
11660
11665
11670
11675
11680
11685
11690
11695
11700
11705
11710
11715
11720
11725
11730
11735
11740
11745
11750
11755
11760
11765
11770
11775
11780
11785
11790
11795
11800
11805
11810
11815
11820
11825
11830
11835
11840
11845
11850
11855
11860
11865
11870
11875
11880
11885
11890
11895
11900
11905
11910
11915
11920
11925
11930
11935
11940
11945
11950
11955
11960
11965
11970
11975
11980
11985
11990
11995
12000
12005
12010
12015
12020
12025
12030
12035
12040
12045
12050
12055
12060
12065
12070
12075
12080
12085
12090
12095
12100
12105
12110
12115
12120
12125
12130
12135
12140
12145
12150
12155
12160
12165
12170
12175
12180
12185
12190
12195
12200
12205
12210
12215
12220
12225
12230
12235
12240
12245
12250
12255
12260
12265
12270
12275
12280
12285
12290
12295
12300
12305
12310
12315
12320
12325
12330
12335
12340
12345
12350
12355
12360
12365
12370
12375
12380
12385
12390
12395
12400
12405
12410
12415
12420
12425
12430
12435
12440
12445
12450
12455
12460
12465
12470
12475
12480
12485
12490
12495
12500
12505
12510
12515
12520
12525
12530
12535
12540
12545
12550
12555
12560
12565
12570
12575
12580
12585
12590
12595
12600
12605
12610
12615
12620
12625
12630
12635
12640
12645
12650
12655
12660
12665
12670
12675
12680
12685
12690
12695
12700
12705
12710
12715
12720
12725
12730
12735
12740
12745
12750
12755
12760
12765
12770
12775
12780
12785
12790
12795
12800
12805
12810
12815
12820
12825
12830
12835
12840
12845
12850
12855
12860
12865
12870
12875
12880
12885
12890
12895
12900
12905
12910
12915
12920
12925
12930
12935
12940
12945
12950
12955
12960
12965
12970
12975
12980
12985
12990
12995
13000
13005
13010
13015
13020
13025
13030
13035
13040
13045
13050
13055
13060
13065
13070
13075
13080
13085
13090
13095
13100
13105
13110
13115
13120
13125
13130
13135
13140
13145
13150
13155
13160
13165
13170
13175
13180
13185
13190
13195
13200
13205
13210
13215
13220
13225
13230
13235
13240
13245
13250
13255
13260
13265
13270
13275
13280
13285
13290
13295
13300
13305
13310
13315
13320
13325
13330
13335
13340
13345
13350
13355
13360
13365
13370
13375
13380
13385
13390
13395
13400
13405
13410
13415
13420
13425
13430
13435
13440
13445
13450
13455
13460
13465
13470
13475
13480
13485
13490
13495
13500
13505
13510
13515
13520
13525
13530
13535
13540
13545
13550
13555
13560
13565
13570
13575
13580
13585
13590
13595
13600
13605
13610
13615
13620
13625
13630
13635
13640
13645
13650
13655
13660
13665
13670
13675
13680
13685
13690
13695
13700
13705
13710
13715
13720
13725
13730
13735
13740
13745
13750
13755
13760
13765
13770
13775
13780
13785
13790
13795
13800
13805
13810
13815
13820
13825
13830
13835
13840
13845
13850
13855
13860
13865
13870
13875
13880
13885
13890
13895
13900
13905
13910
13915
13920
13925
13930
13935
13940
13945
13950
13955
13960
13965
13970
13975
13980
13985
13990
13995
14000
14005
14010
14015
14020
14025
14030
14035
14040
14045
14050
14055
14060
14065
14070
14075
14080
14085
14090
14095
14100
14105
14110
14115
14120
14125
14130
14135
14140
14145
14150
14155
14160
14165
14170
14175
14180
14185
14190
14195
14200
14205
14210
14215
14220
14225
14230
14235
14240
14245
14250
14255
14260
14265
14270
14275
14280
14285
14290
14295
14300
14305
14310
14315
14320
14325
14330
14335
14340
14345
14350
14355
14360
14365
14370
14375
14380
14385
14390
14395
14400
14405
14410
14415
14420
14425
14430
14435
14440
14445
14450
14455
14460
14465
14470
14475
14480
14485
14490
14495
14500
14505
14510
14515
14520
14525
14530
14535
14540
14545
14550
14555
14560
14565
14570
14575
14580
14585
14590
14595
14600
14605
14610
14615
14620
14625
14630
14635
14640
14645
14650
14655
14660
14665
14670
14675
14680
14685
14690
14695
14700
14705
14710
14715
14720
14725
14730
14735
14740
14745
14750
14755
14760
14765
14770
14775
14780
14785
14790
14795
14800
14805
14810
14815
14820
14825
14830
14835
14840
14845
14850
14855
14860
14865
14870
14875
14880
14885
14890
14895
14900
14905
14910
14915
14920
14925
14930
14935
14940
14945
14950
14955
14960
14965
14970
14975
14980
14985
14990
14995
15000
15005
15010
15015
15020
15025
15030
15035
15040
15045
15050
15055
15060
15065
15070
15075
15080
15085
15090
15095
15100
15105
15110
15115
15120
15125
15130
15135
15140
15145
15150
15155
15160
15165
15170
15175
15180
15185
15190
15195
15200
15205
15210
15215
15220
15225
15230
15235
15240
15245
15250
15255
15260
15265
15270
15275
15280
15285
15290
15295
15300
15305
15310
15315
15320
15325
15330
15335
15340
15345
15350
15355
15360
15365
15370
15375
15380
15385
15390
15395
15400
15405
15410
15415
15420
15425
15430
15435
15440
15445
15450
15455
15460
15465
15470
15475
15480
15485
15490
15495
15500
15505
15510
15515
15520
15525
15530
15535
15540
15545
15550
15555
15560
15565
15570
15575
15580
15585
15590
15595
15600
15605
15610
15615
15620
15625
15630
15635
15640
15645
15650
15655
15660
15665
15670
15675
15680
15685
15690
15695
15700
15705
15710
15715
15720
15725
15730
15735
15740
15745
15750
15755
15760
15765
15770
15775
15780
15785
15790
15795
15800
15805
15810
15815
15820
15825
15830
15835
15840
15845
15850
15855
15860
15865
15870
15875
15880
15885
15890
15895
15900
15905
15910
15915
15920
15925
15930
15935
15940
15945
15950
15955
15960
15965
15970
15975
15980
15985
15990
15995
16000
16005
16010
16015
16020
16025
16030
16035
16040
16045
16050
16055
16060
16065
16070
16075
16080
16085
16090
16095
16100
16105
16110
16115
16120
16125
16130
16135
16140
16145
16150
16155
16160
16165
16170
16175
16180
16185
16190
16195
16200
16205
16210
16215
16220
16225
16230
16235
16240
16245
16250
16255
16260
16265
16270
16275
16280
16285
16290
16295
16300
16305
16310
16315
16320
16325
16330
16335
16340
16345
16350
16355
16360
16365
16370
16375
16380
16385
16390
16395
16400
16405
16410
16415
16420
16425
16430
16435
16440
16445
16450
16455
16460
16465
16470
16475
16480
16485
16490
16495
16500
16505
16510
16515
16520
16525
16530
16535
16540
16545
16550
16555
16560
16565
16570
16575
16580
16585
16590
16595
16600
16605
16610
16615
16620
16625
16630
16635
16640
16645
16650
16655
16660
16665
16670
16675
16680
16685
16690
16695
16700
16705
16710
16715
16720
16725
16730
16735
16740
16745
16750
16755
16760
16765
16770
16775
16780
16785
16790
16795
16800
16805
16810
16815
16820
16825
16830
16835
16840
16845
16850
16855
16860
16865
16870
16875
16880
16885
16890
16895
16900
16905
16910
16915
16920
16925
16930
16935
16940
16945
16950
16955
16960
16965
16970
16975
16980
16985
16990
16995
17000
17005
17010
17015
17020
17025
17030
17035
17040
17045
17050
17055
17060
17065
17070
17075
17080
17085
17090
17095
17100
17105
17110
17115
17120
17125
17130
17135
17140
17145
17150
17155
17160
17165
17170
17175
17180
17185
17190
17195
17200
17205
17210
17215
17220
17225
17230
17235
17240
17245
17250
17255
17260
17265
17270
17275
17280
17285
17290
17295
17300
17305
17310
17315
17320
17325
17330
17335
17340
17345
17350
17355
17360
17365
17370
17375
17380
17385
17390
17395
17400
17405
17410
17415
17420
17425
17430
17435
17440
17445
17450
17455
17460
17465
17470
17475
17480
17485
17490
17495
17500
17505
17510
17515
17520
17525
17530
17535
17540
17545
17550
17555
17560
17565
17570
17575
17580
17585
17590
17595
17600
17605
17610
17615
17620
17625
17630
17635
17640
17645
17650
17655
17660
17665
17670
17675
17680
17685
17690
17695
17700
17705
17710
17715
17720
17725
17730
17735
17740
17745
17750
17755
17760
17765
17770
17775
17780
17785
17790
17795
17800
17805
17810
17815
17820
17825
17830
17835
17840
17845
17850
17855
17860
17865
17870
17875
17880
17885
17890
17895
17900
17905
17910
17915
17920
17925
17930
17935
17940
17945
17950
17955
17960
17965
17970
17975
17980
17985
17990
17995
18000
18005
18010
18015
18020
18025
18030
18035
18040
18045
18050
18055
18060
18065
18070
18075
18080
18085
18090
18095
18100
18105
18110
18115
18120
18125
18130
18135
18140
18145
18150
18155
18160
18165
18170
18175
18180
18185
18190
18195
18200
18205
18210
18215
18220
18225
18230
18235
18240
18245
18250
18255
18260
18265
18270
18275
18280
18285
18290
18295
18300
18305
18310
18315
18320
18325
18330
18335
18340
18345
18350
18355
18360
18365
18370
18375
18380
18385
18390
18395
18400
18405
18410
18415
18420
18425
18430
18435
18440
18445
18450
18455
18460
18465
18470
18475
18480
18485
18490
18495
18500
18505
18510
18515
18520
18525
18530
18535
18540
18545
18550
18555
18560
18565
18570
18575
18580
18585
18590
18595
18600
18605
18610
18615
18620
18625
18630
18635
18640
18645
18650
18655
18660
18665
18670
18675
18680
18685
18690
18695
18700
18705
18710
18715
18720
18725
18730
18735
18740
18745
18750
18755
18760
18765
18770
18775
18780
18785
18790
18795
18800
18805
18810
18815
18820
18825
18830
18835
18840
18845
18850
18855
18860
18865
18870
18875
18880
18885
18890
18895
18900
18905
18910
18915
18920
18925
18930
18935
18940
18945
18950
18955
18960
18965
18970
18975
18980
18985
18990
18995
19000
19005
19010
19015
19020
19025
19030
19035
19040
19045
19050
19055
19060
19065
19070
19075
19080
19085
19090
19095
19100
19105
19110
19115
19120
19125
19130
19135
19140
19145
19150
19155
19160
19165
19170
19175
19180
19185
19190
19195
19200
19205
19210
19215
19220
19225
19230
19235
19240
19245
19250
19255
19260
19265
19270
19275
19280
19285
19290
19295
19300
19305
19310
19315
19320
19325
19330
19335
19340
19345
19350
19355
19360
19365
19370
19375
19380
19385
19390
19395
19400
19405
19410
19415
19420
19425
19430
19435
19440
19445
19450
19455
19460
19465
19470
19475
19480
19485
19490
19495
19500
19505
19510
19515
19520
19525
19530
19535
19540
19545
19550
19555
19560
19565
19570
19575
19580
19585
19590
19595
19600
19605
19610
19615
19620
19625
19630
19635
19640
19645
19650
19655
19660
19665
19670
19675
19680
19685
19690
19695
19700
19705
19710
19715
19720
19725
19730
19735
19740
19745
19750
19755
19760
19765
19770
19775
19780
19785
19790
19795
19800
19805
19810
19815
19820
19825
19830
19835
19840
19845
19850
19855
19860
19865
19870
19875
19880
19885
19890
19895
19900
19905
19910
19915
19920
19925
19930
19935
19940
19945
19950
19955
19960
19965
19970
19975
19980
19985
19990
19995
20000
20005
20010
20015
20020
20025
20030
20035
20040
20045
20050
20055
20060
20065
20070
20075
20080
20085
20090
20095
20100
20105
20110
20115
20120
20125
20130
20135
20140
20145
20150
20155
20160
20165
20170
20175
20180
20185
20190
20195
20200
20205
20210
20215
20220
20225
20230
20235
20240
20245
20250
20255
20260
20265
20270
20275
20280
20285
20290
20295
20300
20305
20310
20315
20320
20325
20330
20335
20340
20345
20350
20355
20360
20365
20370
20375
20380
20385
20390
20395
20400
20405
20410
20415
20420
20425
20430
20435
20440
20445
20450
20455
20460
20465
20470
20475
20480
20485
20490
20495
20500
20505
20510
20515
20520
20525
20530
20535
20540
20545
20550
20555
20560
20565
20570
20575
20580
20585
20590
20595
20600
20605
20610
20615
20620
20625
20630
20635
20640
20645
20650
20655
20660
20665
20670
20675
20680
20685
20690
20695
20700
20705
20710
20715
20720
20725
20730
20735
20740
20745
20750
20755
20760
20765
20770
20775
20780
20785
20790
20795
20800
20805
20810
20815
20820
20825
20830
20835
20840
20845
20850
20855
20860
20865
20870
20875
20880
20885
20890
20895
20900
20905
20910
20915
20920
20925
20930
20935
20940
20945
20950
20955
20960
20965
20970
20975
20980
20985
20990
20995
21000
21005
21010
21015
21020
21025
21030
21035
21040
21045
21050
21055
21060
21065
21070
21075
21080
21085
21090
21095
21100
21105
21110
21115
21120
21125
21130
21135
21140
21145
21150
21155
21160
21165
21170
21175
21180
21185
21190
21195
21200
21205
21210
21215
21220
21225
21230
21235
21240
21245
21250
21255
21260
21265
21270
21275
21280
21285
21290
21295
21300
21305
21310
21315
21320
21325
21330
21335
21340
21345
21350
21355
21360
21365
21370
21375
21380
21385
21390
21395
21400
21405
21410
21415
21420
21425
21430
21435
21440
21445
21450
21455
21460
21465
21470
21475
21480
21485
21490
21495
21500
21505
21510
21515
21520
21525
21530
21535
21540
21545
21550
21555
21560
21565
21570
21575
21580
21585
21590
21595
21600
21605
21610
21615
21620
21625
21630
21635
21640
21645
21650
21655
21660
21665
21670
21675
21680
21685
21690
21695
21700
21705
21710
21715
21720
21725
21730
21735
21740
21745
21750
21755
21760
21765
21770
21775
21780
21785
21790
21795
21800
21805
21810
21815
21820
21825
21830
21835
21840
21845
21850
21855
21860
21865
21870
21875
21880
21885
21890
21895
21900
21905
21910
21915
21920
21925
21930
21935
21940
21945
21950
21955
21960
21965
21970
21975
21980
21985
21990
21995
22000
22005
22010
22015
22020
22025
22030
22035
22040
22045
22050
22055
22060
22065
22070
22075
22080
22085
22090
22095
22100
22105
22110
22115
22120
22125
22130
22135
22140
22145
22150
22155
22160
22165
22170
22175
22180
22185
22190
22195
22200
22205
22210
22215
22220
22225
22230
22235
22240
22245
22250
22255
22260
22265
22270
22275
22280
22285
22290
22295
22300
22305
22310
22315
22320
22325
22330
22335
22340
22345
22350
22355
22360
22365
22370
22375
22380
22385
22390
22395
22400
22405
22410
22415
22420
22425
22430
22435
22440
22445
22450
22455
22460
22465
22470
22475
22480
22485
22490
22495
22500
22505
22510
22515
22520
22525
22530
22535
22540
22545
22550
22555
22560
22565
22570
22575
22580
22585
22590
22595
22600
22605
22610
22615
22620
22625
22630
22635
22640
22645
22650
22655
22660
22665
22670
22675
22680
22685
22690
22695
22700
22705
22710
22715
22720
22725
22730
22735
22740
22745
22750
22755
22760
22765
22770
22775
22780
22785
22790
22795
22800
22805
22810
22815
22820
22825
22830
22835
22840
22845
22850
22855
22860
22865
22870
22875
22880
22885
22890
22895
22900
22905
22910
22915
22920
22925
22930
22935
22940
22945
22950
22955
22960
22965
22970
22975
22980
22985
22990
22995
23000
23005
23010
23015
23020
23025
23030
23035
23040
23045
23050
23055
23060
23065
23070
23075
23080
23085
23090
23095
23100
23105
23110
23115
23120
23125
23130
23135
23140
23145
23150
23155
23160
23165
23170
23175
23180
23185
23190
23195
23200
23205
23210
23215
23220
23225
23230
23235
23240
23245
23250
23255
23260
23265
23270
23275
23280
23285
23290
23295
23300
23305
23310
23315
23320
23325
23330
23335
23340
23345
23350
23355
23360
23365
23370
23375
23380
23385
23390
23395
23400
23405
23410
23415
23420
23425
23430
23435
23440
23445
23450
23455
23460
23465
23470
23475
23480
23485
23490
23495
23500
23505
23510
23515
23520
23525
23530
23535
23540
23545
23550
23555
23560
23565
23570
23575
23580
23585
23590
23595
23600
23605
23610
23615
23620
23625
23630
23635
23640
23645
23650
23655
23660
23665
23670
23675
23680
23685
23690
23695
23700
23705
23710
23715
23720
23725
23730
23735
23740
23745
23750
23755
23760
23765
23770
23775
23780
23785
23790
23795
23800
23805
23810
23815
23820
23825
23830
23835
23840
23845
23850
23855
23860
23865
23870
23875
23880
23885
23890
23895
23900
23905
23910
23915
23920
23925
23930
23935
23940
23945
23950
23955
23960
23965
23970
23975
23980
23985
23990
23995
24000
24005
24010
24015
24020
24025
24030
24035
24040
24045
24050
24055
24060
24065
24070
24075
24080
24085
24090
24095
24100
24105
24110
24115
24120
24125
24130
24135
24140
24145
24150
24155
24160
24165
24170
24175
24180
24185
24190
24195
24200
24205
24210
24215
24220
24225
24230
24235
24240
24245
24250
24255
24260
24265
24270
24275
24280
24285
24290
24295
24300
24305
24310
24315
24320
24325
24330
24335
24340
24345
24350
24355
24360
24365
24370
24375
24380
24385
24390
24395
24400
24405
24410
24415
24420
24425
24430
24435
24440
24445
24450
24455
24460
24465
24470
24475
24480
24485
24490
24495
24500
24505
24510
24515
24520
24525
24530
24535
24540
24545
24550
24555
24560
24565
24570
24575
24580
24585
24590
24595
24600
24605
24610
24615
24620
24625
24630
24635
24640
24645
24650
24655
24660
24665
24670
24675
24680
24685
24690
24695
24700
24705
24710
24715
24720
24725
24730
24735
24740
24745
24750
24755
24760
24765
24770
24775
24780
24785
24790
24795
24800
24805
24810
24815
24820
24825
24830
24835
24840
24845
24850
24855
24860
24865
24870
24875
24880
24885
24890
24895
24900
24905
24910
24915
24920
24925
24930
24935
24940
24945
24950
24955
24960
24965
24970
24975
24980
24985
24990
24995
25000
25005
25010
25015
25020
25025
25030
25035
25040
25045
25050
25055
25060
25065
25070
25075
25080
25085
25090
25095
25100
25105
25110
25115
25120
25125
25130
25135
25140
25145
25150
25155
25160
25165
25170
25175
25180
25185
25190
25195
25200
25205
25210
25215
25220
25225
25230
25235
25240
25245
25250
25255
25260
25265
25270
25275
25280
25285
25290
25295
25300
25305
25310
25315
25320
25325
25330
25335
25340
25345
25350
25355
25360
25365
25370
25375
25380
25385
25390
25395
25400
25405
25410
25415
25420
25425
25430
25435
25440
25445
25450
25455
25460
25465
25470
25475
25480
25485
25490
25495
25500
25505
25510
25515
25520
25525
25530
25535
25540
25545
25550
25555
25560
25565
25570
25575
25580
25585
25590
25595
25600
25605
25610
25615
25620
25625
25630
25635
25640
25645
25650
25655
25660
25665
25670
25675
25680
25685
25690
25695
25700
25705
25710
25715
25720
25725
25730
25735
25740
25745
25750
25755
25760
25765
25770
25775
25780
25785
25790
25795
25800
25805
25810
25815
25820
25825
25830
25835
25840
25845
25850
25855
25860
25865
25870
25875
25880
25885
25890
25895
25900
25905
25910
25915
25920
25925
25930
25935
25940
25945
25950
25955
25960
25965
25970
25975
25980
25985
25990
25995
26000
26005
26010
26015
26020
26025
26030
26035
26040
26045
26050
26055
26060
26065
26070
26075
26080
26085
26090
26095
26100
26105
26110
26115
26120
26125
26130
26135
26140
26145
26150
26155
26160
26165
26170
26175
26180
26185
26190
26195
26200
26205
26210
26215
26220
26225
26230
26235
26240
26245
26250
26255
26260
26265
26270
26275
26280
26285
26290
26295
26300
26305
26310
26315
26320
26325
26330
26335
26340
26345
26350
26355
26360
26365
26370
26375
26380
26385
26390
26395
26400
26405
26410
26415
26420
26425
26430
26435
26440
26445
26450
26455
26460
26465
26470
26475
26480
26485
26490
26495
26500
26505
26510
26515
26520
26525
26530
26535
26540
26545
26550
26555
26560
26565
26570
26575
26580
26585
26590
26595
26600
26605
26610
26615
26620
26625
26630
26635
26640
26645
26650
26655
26660
26665
26670
26675
26680
26685
26690
26695
26700
26705
26710
26715
26720
26725
26730
26735
26740
26745
26750
26755
26760
26765
26770
26775
26780
26785
26790
26795
26800
26805
26810
26815
26820
26825
26830
26835
26840
26845
26850
26855
26860
26865
26870
26875
26880
26885
26890
26895
26900
26905
26910
26915
26920
26925
26930
26935
26940
26945
26950
26955
26960
26965
26970
26975
26980
26985
26990
26995
27000
27005
27010
27015
27020
27025
27030
27035
27040
27045
27050
27055
27060
27065
27070
27075
27080
27085
27090
27095
27100
27105
27110
27115
27120
27125
27130
27135
27140
27145
27150
27155
27160
27165
27170
27175
27180
27185
27190
27195
27200
27205
27210
27215
27220
27225
27230
27235
27240
27245
27250
27255
27260
27265
27270
27275
27280
27285
27290
27295
27300
27305
27310
27315
27320
27325
27330
27335
27340
27345
27350
27355
27360
27365
27370
27375
27380
27385
27390
27395
27400
27405
27410
27415
27420
27425
27430
27435
27440
27445
27450
27455
27460
27465
27470
27475
27480
27485
27490
27495
27500
27505
27510
27515
27520
27525
27530
27535
27540
27545
27550
27555
27560
27565
27570
27575
27580
27585
27590
27595
27600
27605
27610
27615
27620
27625
27630
27635
27640
27645
27650
27655
27660
27665
27670
27675
27680
27685
27690
27695
27700
27705
27710
27715
27720
27725
27730
27735
27740
27745
27750
27755
27760
27765
27770
27775
27780
27785
27790
27795
27800
27805
27810
27815
27820
27825
27830
27835
27840
27845
27850
27855
27860
27865
27870
27875
27880
27885
27890
27895
27900
27905
27910
27915
27920
27925
27930
27935
27940
27945
27950
27955
27960
27965
27970
27975
27980
27985
27990
27995
28000
28005
28010
28015
28020
28025
28030
28035
28040
28045
28050
28055
28060
28065
28070
28075
28080
28085
28090
28095
28100
28105
28110
28115
28120
28125
28130
28135
28140
28145
28150
28155
28160
28165
28170
28175
28180
28185
28190
28195
28200
28205
28210
28215
28220
28225
28230
28235
28240
28245
28250
28255
28260
28265
28270
28275
28280
28285
28290
28295
28300
28305
28310
28315
28320
28325
28330
28335
28340
28345
28350
28355
28360
28365
28370
28375
28380
28385
28390
28395
28400
28405
28410
28415
28420
28425
28430
28435
28440
28445
28450
28455
28460
28465
28470
28475
28480
28485
28490
28495
28500
28505
28510
28515
28520
28525
28530
28535
28540
28545
28550
28555
28560
28565
28570
28575
28580
28585
28590
28595
28600
28605
28610
28615
28620
28625
28630
28635
28640
28645
28650
28655
28660
28665
28670
28675
28680
28685
28690
28695
28700
28705
28710
28715
28720
28725
28730
28735
28740
28745
28750
28755
28760
28765
28770
28775
28780
28785
28790
28795
28800
28805
28810
28815
28820
28825
28830
28835
28840
28845
28850
28855
28860
28865
28870
28875
28880
28885
28890
28895
28900
28905
28910
28915
28920
28925
28930
28935
28940
28945
28950
28955
28960
28965
28970
28975
28980
28985
28990
28995
29000
29005
29010
29015
29020
29025
29030
29035
29040
29045
29050
29055
29060
29065
29070
29075
29080
29085
29090
29095
29100
29105
29110
29115
29120
29125
29130
29135
29140
29145
29150
29155
29160
29165
29170
29175
29180
29185
29190
29195
29200
29205
29210
29215
29220
29225
29230
29235
29240
29245
29250
29255
29260
29265
29270
29275
29280
29285
29290
29295
29300
29305
29310
29315
29320
29325
29330
29335
29340
29345
29350
29355
29360
29365
29370
29375
29380
29385
29390
29395
29400
29405
29410
29415
29420
29425
29430
29435
29440
29445
29450
29455
29460
29465
29470
29475
29480
29485
29490
29495
29500
29505
29510
29515
29520
29525
29530
29535
29540
29545
29550
29555
29560
29565
29570
29575
29580
29585
29590
29595
29600
29605
29610
29615
29620
29625
29630
29635
29640
29645
29650
29655
29660
29665
29670
29675
29680
29685
29690
29695
29700
29705
29710
29715
29720
29725
29730
29735
29740
29745
29750
29755
29760
29765
29770
29775
29780
29785
29790
29795
29800
29805
29810
29815
29820
29825
29830
29835
29840
29845
29850
29855
29860
29865
29870
29875
29880
29885
29890
29895
29900
29905
29910
29915
29920
29925
29930
29935
29940
29945
29950
29955
29960
29965
29970
29975
29980
29985
29990
29995
30000
30005
30010
30015
30020
30025
30030
30035
30040
30045
30050
30055
30060
30065
30070
30075
30080
30085
30090
30095
30100
30105
30110
30115
30120
30125
30130
30135
30140
30145
30150
30155
30160
30165
30170
30175
30180
30185
30190
30195
30200
30205
30210
30215
30220
30225
30230
30235
30240
30245
30250
30255
30260
30265
30270
30275
30280
30285
30290
30295
30300
30305
30310
30315
30320
30325
30330
30335
30340
30345
30350
30355
30360
30365
30370
30375
30380
30385
30390
30395
30400
30405
30410
30415
30420
30425
30430
30435
30440
30445
30450
30455
30460
30465
30470
30475
30480
30485
30490
30495
30500
30505
30510
30515
30520
30525
30530
30535
30540
30545
30550
30555
30560
30565
30570
30575
30580
30585
30590
30595
30600
30605
30610
30615
30620
30625
30630
30635
30640
30645
30650
30655
30660
30665
30670
30675
30680
30685
30690
30695
30700
30705
30710
30715
30720
30725
30730
30735
30740
30745
30750
30755
30760
30765
30770
30775
30780
30785
30790
30795
30800
30805
30810
30815
30820
30825
30830
30835
30840
30845
30850
30855
30860
30865
30870
30875
30880
30885
30890
30895
30900
30905
30910
30915
30920
30925
30930
30935
30940
30945
30950
30955
30960
30965
30970
30975
30980
30985
30990
30995
31000
31005
31010
31015
31020
31025
31030
31035
31040
31045
31050
31055
31060
31065
31070
31075
31080
31085
31090
31095
31100
31105
31110
31115
31120
31125
31130
31135
31140
31145
31150
31155
31160
31165
31170
31175
31180
31185
31190
31195
31200
31205
31210
31215
31220
31225
31230
31235
31240
31245
31250
31255
31260
31265
31270
31275
31280
31285
31290
31295
31300
31305
31310
31315
31320
31325
31330
31335
31340
31345
31350
31355
31360
31365
31370
31375
31380
31385
31390
31395
31400
31405
31410
31415
31420
31425
31430
31435
31440
31445
31450
31455
31460
31465
31470
31475
31480
31485
31490
31495
31500
31505
31510
31515
31520
31525
31530
31535
31540
31545
31550
31555
31560
31565
31570
31575
31580
31585
31590
31595
31600
31605
31610
31615
31620
31625
31630
31635
31640
31645
31650
31655
31660
31665
31670
31675
31680
31685
31690
31695
31700
31705
31710
31715
31720
31725
31730
31735
31740
31745
31750
31755
31760
31765
31770
31775
31780
31785
31790
31795
31800
31805
31810
31815
31820
31825
31830
31835
31840
31845
31850
31855
31860
31865
31870
31875
31880
31885
31890
31895
31900
31905
31910
31915
31920
31925
31930
31935
31940
31945
31950
31955
31960
31965
31970
31975
31980
31985
31990
31995
32000
32005
32010
32015
32020
32025
32030
32035
32040
32045
32050
32055
32060
32065
32070
32075
32080
32085
32090
32095
32100
32105
32110
32115
32120
32125
32130
32135
32140
32145
32150
32155
32160
32165
32170
32175
32180
32185
32190
32195
32200
32205
32210
32215
32220
32225
32230
32235
32240
32245
32250
32255
32260
32265
32270
32275
32280
32285
32290
32295
32300
32305
32310
32315
32320
32325
32330
32335
32340
32345
32350
32355
32360
32365
32370
32375
32380
32385
32390
32395
32400
32405
32410
32415
32420
32425
32430
32435
32440
32445
32450
32455
32460
32465
32470
32475
32480
32485
32490
32495
32500
32505
32510
32515
32520
32525
32530
32535
32540
32545
32550
32555
32560
32

PLANT LIST

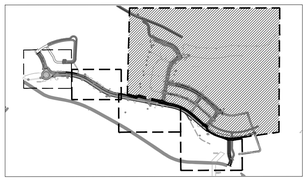
			FILL	RATE	POUNDS
TEMPORARY REVEG SEED MIX					
AGROPYRON PASCOPYRUM `ARRIBA` / WESTERN WHEATGRASS			50%	13.25 lbs PLS PER AC	77.24 lbs
BROMUS MARGINATUS / MOUNTAIN BROME			50%	13.25 lbs PLS PER AC	77.24 lbs
	TOTAL	9.57 AC	100%	26.5 lbs PLS PER AC	253.61 lbs
CUTOFF DITCH SEED MIX: BY BIRCH ECOLOGY					
	TOTAL	2.22 AC	100%	10.71 lbs PLS PER AC	23.75 lbs
DRY SWALE SEED MIX: BY BIRCH ECOLOGY					
	TOTAL	.932 AC	100%	27.18 lbs PLS PER AC	25.33 lbs
IRRIGATED NATIVE HILLSIDE SEED MIX: BY BIRCH ECOLOGY					
	TOTAL	7.24 AC	100%	30.12 lbs PLS PER AC	218.06 lbs
NON-IRRIGATED NATIVE HILLSIDE SEED MIX: BY BIRCH ECOLOGY					
	TOTAL	5.16 AC	100%	23.75 lbs PLS PER AC	122.55 lbs

NOTES:

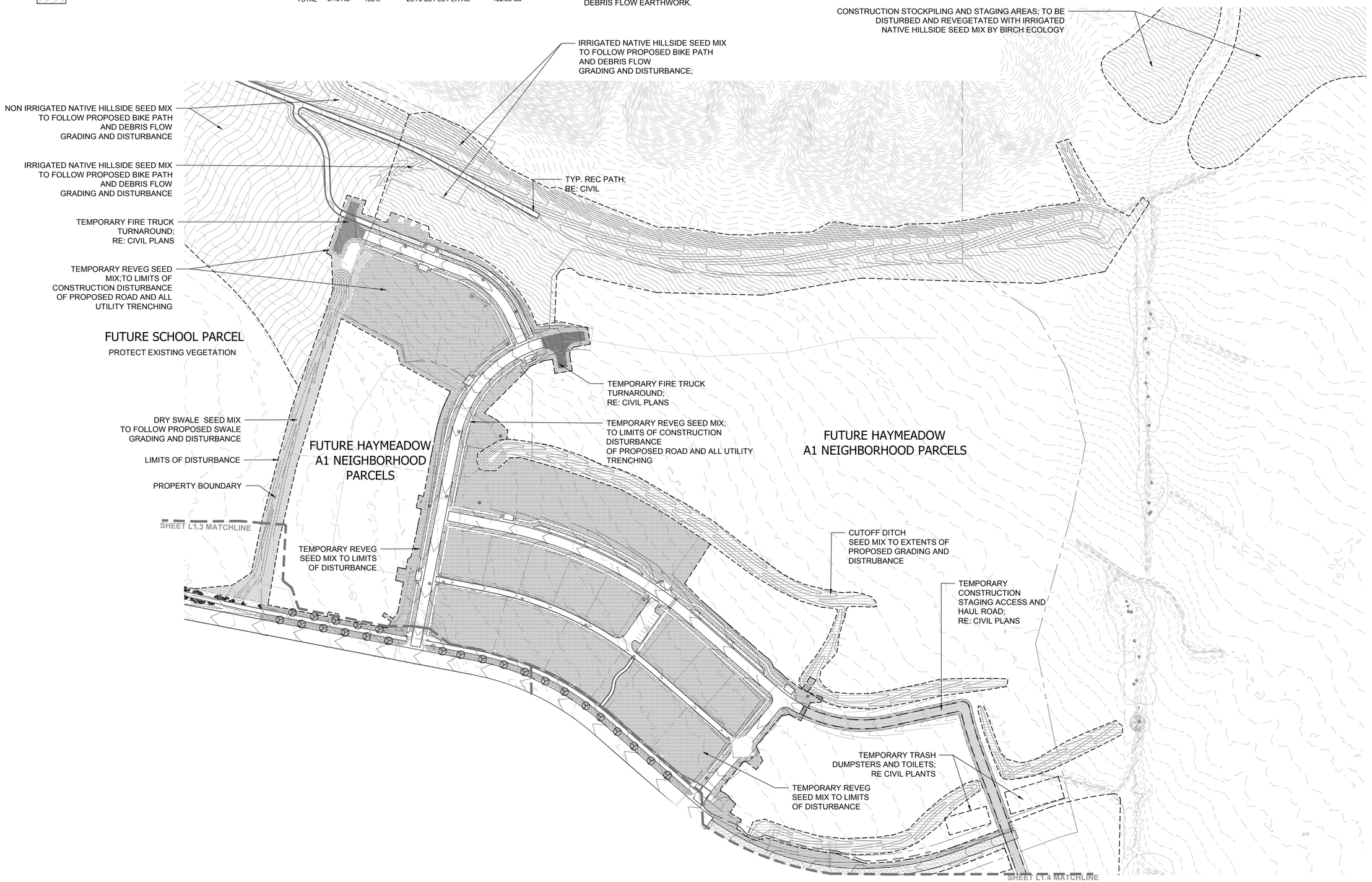
1. THIS SHEET IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. SEEDING TYPES TO FOLLOW ALL PROPOSED DISTURBANCE FOR THIS PERMIT SET.
2. REFER TO CIVIL DRAWING SET FOR EXTENTS OF ALL PROPOSED SITE GRADING AND PROPOSED UTILITIES.
3. ALL DISTURBED AREAS TO BE RE-VEGETATED WITH SPECIFIED SEED MIXES. REFER TO PLANS FOR THE SPECIFIC LOCATIONS AND DISTRIBUTION OF SEEDING. AREAS OF SEEDING ON PLANS ARE APPROXIMATE AND ARE TO BE ADJUSTED PER ACTUAL LIMITS OF DISTURBANCE IN FIELD. REFER TO CIVIL PLANS FOR UTILITY LOCATIONS PER FILING 1.
4. PLANT SPECIES AND QUANTITIES ARE SPECIFIC TO THIS SHEET. REFER TO SHEET L1.6 FOR FULL LIST OF PLANTS AND SEED MIX SPECIES PROVIDED BY DHM DESIGN AND BIRCH ECOLOGY.
5. REFER TO CIVIL PLANS FOR EXTENT OF PROPOSED PATH AND DEBRIS FLOW EARTHWORK.

LEGEND

- PROPERTY BOUNDARY
- LIMITS OF DISTURBANCE
- PROPOSED CONTOURS; PER CIVIL
- 6650 EXISTING CONTOURS
- PROPOSED ASPHALT ROADS; PER CIVIL
- PROPOSED GRAVEL ROADS; PER CIVIL



KEY PLAN
N.T.S.



DHM DESIGN
LANDSCAPE ARCHITECTURE
LAND PLANNING
URBAN DESIGN

311 Main Street, Suite 102
Carbondale CO. 81623 | 970.963.6520

REUSE OF DOCUMENT

This document is the property of DHM Design Corp. The ideas and design incorporated on this document is an instrument of professional service and shall not be used for any other project without written authorization of DHM Design Corp.

BIRCH ECOLOGY

Haymeadow Filing 1

Town of Eagle, Colorado

PROJECT NO: 16453.00

ISSUE:

FILING 1 PERMIT SUBMITTAL: 2018.09.14
RESPONSE TO TOWN COMMENTS: 2019.02.15

LAURA F. KIRK 172 — 09/01/2018 — Colorado Certificate of Registration — LICENSED LANDSCAPE ARCHITECT — STATE OF COLORADO

SHEET TITLE:

OVERALL NATIVE REVEG

SHEET NUMBER:

L1.5

0' 50' 100' 200'

SCALE: 1"=100'

File Path: X:\Projects\Haymeadow_2017 and Beyond\6_PERMIT\Access and Infrastructure\CAD\Sheets\20190204_Haymeadow_Planting.dwg
Last Edited: February 04, 2019 - 1:33pm

MASTER PLANT SCHEDULE

DECIDUOUS TREES	CODE	BOTANICAL NAME	CONT	QTY
	AA	ACER FREEMANII `AUTUMN BLAZE` AUTUMN BLAZE MAPLE	4" CAL B&B	11
	AB	ACER NEGUNDO `SENSATION` SENSATION BOX ELDER MAPLE	4" CAL B&B	12
	BO	BETULA OCCIDENTALIS WATER BIRCH	2" CAL B&B	28
	PC	PRUNUS VIRGINIANA `CANADA RED` CANADA RED CHOKECHERRY	4" CAL B&B	3
	SB	SALIX BEBBIANA BEAKED WILLOW	2" CAL B&B	66
	SG	SALIX GEYERIANA GEYER WILLOW	15 GAL	169
	SL	SALIX LUCIDA PACIFIC WILLOW	3" CAL B&B	49
	SM2	SALIX MONTICOLA YELLOW MOUNTAIN WILLOW	15 GAL	111
	SM	SALIX MONTICOLA YELLOW MOUNTAIN WILLOW	5` CL B&B	49
	TF	TILIA X FLAVESCENS `GLENLEVEN` GLENLEVEN LINDEN	4" CAL B&B	10
SHRUBS	CODE	BOTANICAL NAME	SIZE	QTY
	CC	CARYOPTERIS X CLANDONENSIS `BLUE MIST` BLUE MIST SHRUB	5 GAL	13
	CF	CHAMAEBATIARIA LATIFOLIA FERNBUSH	5 GAL	10
	RG	RHUS AROMATICA `GRO-LOW` GRO-LOW FRAGRANT SUMAC	5 GAL	75
	VA	VIBURNUM TRILOBUM AMERICAN CRANBERRYBUSH	5 GAL	5

GENERAL PLANTING NOTES:

1. ALL PLANT MATERIALS SHALL BE NURSERY GROWN. PLANTS SHALL BE HEALTHY AND FREE OF DISEASE AND PESTS. ALL PLANT MATERIALS ARE TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
2. PLANT MATERIAL LOCATIONS ON THIS PLAN ARE FOR ILLUSTRATIVE AND PLANT QUANTIFICATION PURPOSES ONLY. PLANT BED LAYOUT TO BE APPROVED BY LANDSCAPE ARCHITECT.
3. PLANT LAYOUT AROUND ACCESS AND INFRASTRUCTURE (I.E. VAULTS, CULVERTS, SWALES, AND TRANSFORMERS) TO BE FIELD LOCATED AND APPROVED BY THE LANDSCAPE ARCHITECT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES, PAVEMENTS, OR STRUCTURES THAT IS A RESULT OF HIS OR HER WORK AT NO ADDITIONAL COST TO THE OWNER. ALL EXISTING LANDSCAPE OUTSIDE LIMITS OF DISTURBANCE IS TO BE PROTECTED. ANY DAMAGE TO EXISTING VEGETATION TO REMAIN IS TO BE RESTORED TO ITS ORIGINAL CONDITION BY CONTRACTOR AT NO COST TO THE OWNER.
5. ALL DISTURBED AREAS TO BE RE-VEGETATED PER SPECIFIED SEED MIX. REFER TO PLANS FOR THE SPECIFIC LOCATIONS AND DISTRIBUTION OF SEED MIX. AREAS OF SEEDING ARE APPROXIMATE AND ARE TO BE FIELD VERIFIED OR ADJUSTED PER ACTUAL LIMITS OF DISTURBANCE.
6. ALL DISTURBED AREAS TO RECEIVE SUB-GRADE SCARIFICATION, TOPSOIL, AND SEED. IF FIELD CONDITIONS INDICATE THAT DISTURBANCE WILL EXPAND BEYOND 'LIMIT OF DISTURBANCE' LINE AS ILLUSTRATED ON THE PLANS, CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT PRIOR TO COMMENCING WORK IN THAT AREA.
7. IMMEDIATELY FOLLOWING SEEDING OPERATIONS OF SPECIFIC ZONES, THE AREAS SHALL BE PROTECTED FROM TRAFFIC OR OTHER ACTIVITIES. CONTRACTOR TO PROVIDE METHOD OF ACCESS CONTROL FOR APPROVAL BY LANDSCAPE ARCHITECT; CONTRACTOR TO MAINTAIN ACCESS CONTROL UNTIL FINAL ACCEPTANCE.
8. NOXIOUS VEGETATION SHALL BE CONTROLLED BY THE CONTRACTOR THROUGHOUT THE SEEDING ZONES AS WELL AS THE ENTIRE PROJECT SITE UNTIL FINAL ACCEPTANCE OR THROUGH THE MAINTENANCE PERIOD. THE AGGRESSIVE ESTABLISHMENT OF NEW PLANT MATERIAL IS INTENDED TO DISCOURAGE FUTURE NOXIOUS VEGETATION ENCROACHMENTS.

MASTER SEEDING SCHEDULE

	ACRES	FILL	RATE	POUNDS
TURF-CLOVER MIX				
POA PRATENSIS / KENTUCKY BLUEGRASS		50%	2 lbs PLS PER AC	.266 lbs
TRIFOLIUM REPENS / WHITE CLOVER		50%	2 lbs PLS PER AC	.266 lbs
TOTAL	.36 AC	100%	4 lbs PLS PER AC	1.44 lbs
AGRICULTURAL DISTURBANCE MIX				
AGROPYRON PASCOPYRUM `ARRIBA` / WESTERN WHEATGRASS		10%	2.65 lbs PLS PER AC	2.96 lbs
AGROPYRON RIPARIUM / STREAMBANK WHEATGRASS		10%	2.65 lbs PLS PER AC	2.96 lbs
BROMUS COMMUTATUS / MEADOW BROMEGRASS		20%	5.30 lbs PLS PER AC	5.94 lbs
BROMUS MARGINATUS / MOUNTAIN BROME		20%	5.30 lbs PLS PER AC	5.94 lbs
DACTYLIS GLOMERATA / ORCHARD GRASS		20%	5.30 lbs PLS PER AC	5.94 lbs
POA ALPINA / ALPINE BLUEGRASS		20%	5.30 lbs PLS PER AC	5.94 lbs
TOTAL	6.12 AC	100%	26.5 lbs PLS PER AC	162.18 lbs
TEMPORARY REVEG SEED MIX				
AGROPYRON PASCOPYRUM `ARRIBA` / WESTERN WHEATGRASS		50%	13.25 lbs PLS PER AC	77.24 lbs
BROMUS MARGINATUS / MOUNTAIN BROME		50%	13.25 lbs PLS PER AC	77.24 lbs
TOTAL	9.86 AC	100%	26.5 lbs PLS PER AC	261.30 lbs
DETENTION POND BOTTOM SEED MIX: BY BIRCH ECOLOGY				
TOTAL	.91 AC	100%	18.28 lbs PLS PER AC	16.6 lbs
CUTOFF DITCH SEED MIX: BY BIRCH ECOLOGY				
TOTAL	2.22 AC	100%	10.71 lbs PLS PER AC	23.78 lbs
DRY SWALE SEED MIX: BY BIRCH ECOLOGY				
TOTAL	1.20 AC	100%	27.18 lbs PLS PER AC	32.60 lbs
IRRIGATED NATIVE HILLSIDE SEED MIX: BY BIRCH ECOLOGY				
TOTAL	11.12 AC	100%	30.12 lbs PLS PER AC	334.95 lbs
NON-IRRIGATED NATIVE HILLSIDE SEED MIX: BY BIRCH ECOLOGY				
TOTAL	13.78 AC	100%	23.75 lbs PLS PER AC	327.30 lbs

DETENTION POND BOTTOM SEED SCHEDULE: BY BIRCH ECOLOGY

Scientific Name	Common Name	Variety	Seeding Rate PLS Lbs./acre
Eleocharis palustris	Creeping spikerush	Native CO	1
Carex lanuginosa	Woolly sedge	Native CO	1
Glyceria grandis	American mannagrass	Native CO	1
Juncus balticus	Baltic rush	Native CO	0.125
Juncus longistylis	Longstyle rush	Native CO	0.03125
Juncus torreyi	Torrey's rush	Native CO	0.0625
Scirpus americanus	Threesquare bulrush	Native CO	2
Scirpus maritimus	Alkali bulrush	Native CO	1
Triglochin maritima	Arrowgrass	Native CO	1.25
Puccinellia airoides	Nuttall alkaligrass	Native CO	0.25
		Graminoid Total	7.71875
Aster lanceolatus ssp. hesperius	Siskiyou aster	Native CO	0.5
Asclepias speciosa	Showy milkweed	Native CO	2
Geum macrophyllum	Largeleaf avens	Native CO	2
Iris missouriensis	Rocky Mountain iris	Native CO	4
Solidago canadensis	Canada goldenrod	Native CO	0.0625
Sidalcea neomexicana	New Mexico checkermallow	Native CO	2
		Forb Total	10.5625
		GRAND TOTAL:	18.28125

DRY SWALE SEED SCHEDULE: BY BIRCH ECOLOGY

Scientific Name	Common Name	Variety	Seeding Rate PLS Lbs./acre
SHRUBS			
Artemisia tridentata var. tridentata	Basin big sagebrush	Native CO	0.25
		TOTAL SHRUBS:	0.25
GRAMINOIDS			
Elymus elymoides	Squirreltail	State Bridge or Tusas	2
Elymus trachycaulus	Slender wheatgrass	Pryor	4
Koeleria macrantha	Junegrass	Native CO	0.125
Oryzopsis hymenoides	Indian ricegrass	Paloma	4
Leymus cinereus	Basin wildrye	Native CO	4
Pascopyrum smithii	Western wheatgrass	Arriba	5
Poa fendleriana	Muttongrass	Native CO	0.125
Poa secunda	Sandberg bluegrass	Native CO	0.25
Pseudoroegneria spicata	Bluebunch wheatgrass	Anatone	2
Stipa comata	Needle and thread	Native CO	2
		Graminoid Total	23.5
FORBS			
Achillea millefolium	Yarrow	Native CO	0.0625
Artemisia frigida	Fringed sage	Native CO	0.0625
Erysimum capitatum	Western wallflower	Native CO	1
Ipomopsis aggregata	Scarlet gilia	Native CO	0.5
Penstemon strictus	Rocky Mountain penstemon	Native CO	1
Artemisia ludoviciana	White sage	Native CO	0.0625
Sphaeralcea coccinea	Scarlet globemallow	Native CO	0.75
		Forb Total	3.4375
		GRAND TOTAL:	27.1875

IRRIGATED NATIVE HILLSIDE SEED SCHEDULE: BY BIRCH ECOLOGY

Scientific Name	Common Name	Variety	Seeding Rate PLS Lbs./acre
SHRUBS			
Artemisia tridentata var. tridentata	Basin big sagebrush	Native CO	0.25
		TOTAL SHRUBS:	0.25
GRAMINOIDS			
Elymus elymoides	Squirreltail	State Bridge or Tusas	2
Elymus trachycaulus	Slender wheatgrass	Pryor	4
Koeleria macrantha	Junegrass	Native CO	0.125
Oryzopsis hymenoides	Indian ricegrass	Paloma	4
Leymus cinereus	Basin wildrye	Native CO	4
Pascopyrum smithii	Western wheatgrass	Arriba	5
Poa fendleriana	Muttongrass	Native CO	0.125
Poa secunda	Sandberg bluegrass	Native CO	0.25
Pseudoroegneria spicata	Bluebunch wheatgrass	Anatone	2
Stipa comata	Needle and thread	Native CO	2
		Graminoid Total	23.5
FORBS			
Achillea millefolium	Yarrow	Native CO	0.0625
Artemisia frigida	Fringed sage	Native CO	0.0625
Erysimum capitatum	Western wallflower	Native CO	1
Ipomopsis aggregata	Scarlet gilia	Native CO	0.5
Penstemon strictus	Rocky Mountain penstemon	Native CO	1
Artemisia ludoviciana	White sage	Native CO	0.0625
Sphaeralcea coccinea	Scarlet globemallow	Native CO	0.75
		Forb Total	3.4375
		GRAND TOTAL:	27.1875

NON-IRRIGATED NATIVE HILLSIDE SEED SCHEDULE: BY BIRCH ECOLOGY

Scientific Name	Common Name	Variety	Seeding Rate PLS Lbs./acre
Eleocharis palustris	Creeping spikerush	Native CO	1
Carex lanuginosa	Woolly sedge	Native CO	1
Deschampsia caespitosa	Tufted hairgrass	Native CO	0.25
Glyceria grandis	American mannagrass	Native CO	0.5
Juncus balticus	Baltic rush	Native CO	0.125
Juncus longistylis	Longstyle rush	Native CO	0.03125
Juncus torreyi	Torrey's rush	Native CO	0.0625
Scirpus americanus	Threesquare bulrush	Native CO	2
Scirpus maritimus	Alkali bulrush	Native CO	1
Puccinellia airoides	Nuttall alkaligrass	Native CO	0.25
		Graminoid Total	6.21875
Aster lanceolatus ssp. hesperius	Siskiyou aster	Native CO	0.5
Asclepias speciosa	Showy milkweed	Native CO	2
Sidalcea neomexicana	New Mexico checkermallow	Native CO	2
		Forb Total	4.5

CUTOFF DITCH SEED SCHEDULE: BY BIRCH ECOLOGY

Scientific Name	Common Name	Variety	Seeding Rate PLS Lbs./acre
Eleocharis palustris	Creeping spikerush	Native CO	1
Carex lanuginosa	Woolly sedge	Native CO	1
Deschampsia caespitosa	Tufted hairgrass	Native CO	0.25
Glyceria grandis	American mannagrass	Native CO	0.5
Juncus balticus	Baltic rush	Native CO	0.125
Juncus longistylis	Longstyle rush	Native CO	0.03125
Juncus torreyi	Torrey's rush	Native CO	0.0625
Scirpus americanus	Threesquare bulrush	Native CO	2
Scirpus maritimus	Alkali bulrush	Native CO	1
Puccinellia airoides	Nuttall alkaligrass	Native CO	0.25
		Graminoid Total	6.21875
Aster lanceolatus ssp. hesperius	Siskiyou aster	Native CO	0.5
Asclepias speciosa	Showy milkweed	Native CO	2
Sidalcea neomexicana	New Mexico checkermallow	Native CO	2
		Forb Total	4.5
		GRAND TOTAL:	10.71875

GENERAL SEEDING NOTES:

1. ALL AREAS OF DISTURBANCE TO BE SEEDED. IMMEDIATELY FOLLOWING SEEDING ALL AREAS SHALL BE PROTECTED FROM TRAFFIC OR OTHER ACTIVITIES - EXCEPT WEED CONTROL.
2. ALL SEEDED AREAS TO RECEIVE MULCH APPLIED PER MANUFACTURERS RECOMMENDATIONS. BIRCH ECOLOGY AND LANDSCAPE ARCHITECT TO PROVIDE MULCH PRODUCT RECOMMENDATIONS.
3. ENSURE ALL SEEDING PREP WORK IS COMPLETE AND REVIEWED BY LANDSCAPE ARCHITECT/ ECOLOGIST PRIOR TO ANY SEEDING
4. MINIMIZE IMPACT AND DISTURBANCE IN ALL AREAS TO GREATEST EXTENT POSSIBLE WHEN PLANTING.
5. ALL CONSTRUCTION ACCESS AREAS TO BE RE-SEEDED.
6. SEED INSPECTION AND VERIFICATION IS TO BE PROVIDED BEFORE ACCEPTANCE INCLUDING: BLUE TAGGED SEED/ STATE OF CO CERTIFICATION/ PURE LIVE SEED (PLS) CERTIFICATION SEED VARIETY/ PERCENTAGE OF WEIGHT/ NOXIOUS VEGETATION CERTIFICATION.
7. THESE PLANS COVER PLANTING ONLY. OTHERS ARE RESPONSIBLE FOR IRRIGATION DESIGN FOR AREAS TO BE IRRIGATED.
8. SEED BED PREPARATION AND INSTALLATION TECHNIQUES TO BE COORDINATED WITH BIRCH ECOLOGY AND LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

DHM DESIGN
LANDSCAPE ARCHITECTURE
LAND PLANNING
URBAN DESIGN

311 Main Street, Suite 102
Carbondale CO. 81623 | 970.963.6520

REUSE OF DOCUMENT

This document is the property of DHM Design Corp. The ideas and design incorporated on this document is an instrument of professional service and shall not be used for any other project without written authorization of DHM Design Corp.

BIRCH ECOLOGY

Haymeadow Filing 1
Town of Eagle, Colorado

PROJECT NO: 16453.00

ISSUE:

FILING 1 PERMIT SUBMITTAL: 2018.09.14
RESPONSE TO TOWN COMMENTS: 2019.02.15

LAURA F. KIRK 172 REGISTERED Professional Landscape Architect STATE OF COLORADO

SHEET TITLE:

MASTER PLANT LIST
&
NOTES

SHEET NUMBER:

L1.6

File Path: X:\Projects\Haymeadow_2017 and Beyond\6_PERMITAccess and Infrastructure\CAD\Sheets\20190204_Haymeadow_Planting.dwg
Plot Date/Time: February 05, 2019 - 4:40pm

ELECTRICAL SYSTEMS LEGEND

NOTE:
ALL SYMBOLS SHOWN ON LEGEND ARE NOT NECESSARILY USED.

LIGHTING FIXTURE SYMBOLS

- RECESSED LIGHTING FIXTURE
- DIRECTIONAL/ADJUSTABLE RECESSED LIGHTING FIXTURE
- SURFACE MOUNTED LIGHT
- PENDANT MOUNTED LIGHT
- WALL MOUNTED LIGHT
- WALL MOUNTED UP-LIGHT
- MONO-POINT LIGHTING FIXTURE
- RECESSED STEP LIGHT
- FLUORESCENT STRIP LIGHT
- WALL MOUNTED LINEAR FLUORESCENT LIGHT
- RECESSED OR SURFACE MOUNTED FLUORESCENT TROFFER
- FIXTURE WITH EMERGENCY BACKUP OR ON EM CIRCUIT
- CEILING MOUNTED EXIT SIGN W/ FACES & ARROWS AS SHOWN
- WALL MOUNTED EXIT SIGN W/ FACES & ARROWS AS SHOWN
- EMERGENCY LIGHTS
- EXTERIOR POLE MOUNTED LIGHT
- EXTERIOR POST (BOLLARD) MOUNTED LIGHT

LIGHTING CONTROL SYMBOLS

- S SWITCH
- S^3 THREE-WAY SWITCH
- S^4 FOUR-WAY SWITCH
- S^J DOOR JAMB SWITCH
- S^K KEY SWITCH
- S^V VARIABLE SPEED SWITCH
- S^T THERMAL OVERLOAD SWITCH
- D DIMMER
- D^3 THREE-WAY DIMMER
- LV LOW VOLTAGE SWITCH
- S^O WALL OCCUPANCY SENSOR/SWITCH
- OSW OCCUPANCY SENSOR - WALL MOUNTED
- OSC OCCUPANCY SENSOR - CEILING MOUNTED
- OSR OCCUPANCY SENSOR - CORRIDOR CEILING MOUNTED
- DL DAYLIGHT PHOTO SENSOR

POWER SYMBOLS

- SINGLE RECEPTACLE
- DUPLEX RECEPTACLE
- C DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER
- DOUBLE DUPLEX RECEPTACLE
- GFCI DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE; HALF SWITCHED
- ISOLATED GROUND DUPLEX RECEPTACLE
- MULTI-OUTLET PLUG STRIP
- FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE
- FLUSH FLOOR MOUNTED DOUBLE DUPLEX RECEPTACLE
- FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE; HALF SWITCHED
- FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE AND TELECOM
- WALL MOUNTED SPECIAL OUTLET AS NOTED
- SPECIAL OUTLET AS NOTED
- JUNCTION BOX
- WALL MOUNTED JUNCTION BOX
- FLOOR MOUNTED JUNCTION BOX
- MECHANICAL EQUIPMENT POWER CONNECTION
- TS TIMER SWITCH
- FUSED DISCONNECT
- NON FUSED DISCONNECT
- MOTOR STARTER
- ECB ENCLOSED CIRCUIT BREAKER
- PB PULL BOX
- PUSH BUTTON
- TC TIME CLOCK
- PC PHOTO-CELL
- T TRANSFORMER
- PANELBOARD OR LOADCENTER
- C CONTACTOR
- ELECTRIC MOTOR
- METER
- THERMOSTAT
- ATS AUTOMATIC TRANSFER SWITCH
- CIRCUIT HOMERUN
- CONDUIT RUN
- CONDUIT RUN BELOW GRADE
- CONDUIT UP
- CONDUIT DOWN
- S SWITCH
- S^T THERMAL OVERLOAD SWITCH
- S^V VARIABLE SPEED SWITCH
- S^K KEY SWITCH

ONE-LINE DIAGRAM SYMBOLS

- DISCONNECT SWITCH
- FUSE
- CIRCUIT BREAKER
- CURRENT TRANSFORMER
- POTENTIAL TRANSFORMER
- M METER
- V VOLT-METER
- A AMP-METER
- SPD SURGE PROTECTION DEVICE
- SELECTOR SWITCH
- GF GROUND FAULT PROTECTION
- ST SHUNT TRIP
- NORMALLY OPEN CONTACT
- NORMALLY CLOSED CONTACT
- GROUND
- COLD WATER GROUND CONNECTION
- BUILDING STEEL GROUND CONNECTION

ABBREVIATIONS

AFC	-	ABOVE FINISHED CEILING
AFF	-	ABOVE FINISHED FLOOR
AFG	-	ABOVE FINISHED GRADE
AHJ	-	AUTHORITY HAVING JURISDICTION
AL	-	ALUMINUM
AP	-	ACCESS POINT
AWG	-	AMERICAN WIRE GAUGE
BAS	-	BUILDING AUTOMATION SYSTEM
BFG	-	BELOW FINISH GRADE
BMS	-	BUILDING MANAGEMENT SYSTEM
C	-	CONDUIT
CATV	-	COMMUNITY (CABLE) ANTENNA TELEVISION SYSTEM
CCTV	-	CLOSED CIRCUIT TELEVISION
CKT	-	CIRCUIT
CPU	-	CENTRAL PROCESSING UNIT
CT	-	CURRENT TRANSFORMER
DISP	-	GARBAGE DISPOSAL
DW	-	DISHWASHER
(E)	-	EXISTING
EM	-	EMERGENCY
EWC	-	ELECTRIC WATER COOLER
FA	-	FIRE ALARM
FACP	-	FIRE ALARM CONTROL PANEL
FBO	-	FURNISHED BY OTHERS
GC	-	GENERAL CONTRACTOR
GFI	-	GROUND FAULT CIRCUIT INTERRUPTER
GRD	-	GROUND
IAW	-	IN ACCORDANCE WITH
IC	-	INTERMEDIATE CROSS-CONNECT
IDF	-	INTERMEDIATE DISTRIBUTION FRAME
IG	-	ISOLATED GROUND
IR	-	INFRARED
LAN	-	LOCAL AREA NETWORK
MDF	-	MAIN DISTRIBUTION FRAME
(N)	-	NEW
NIC	-	NOT IN CONTRACT
NL	-	NIGHT LIGHT
NTS	-	NOT TO SCALE
OC	-	ON CENTER
PA	-	PUBLIC ADDRESS
REF	-	REFRIGERATOR
TTB	-	TELECOMMUNICATIONS TERMINAL BOARD
TVSS	-	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TVTB	-	TELEVISION TERMINAL BOARD
UG	-	UNDERGROUND
UNO	-	UNLESS NOTED OTHERWISE
V	-	VOLT
W	-	WATT
WAN	-	WIDE AREA NETWORK
WAP	-	WIRELESS ACCESS POINT
WLAN	-	WIRELESS LOCAL AREA NETWORK
WP	-	WEATHERPROOF
XP	-	EXPLOSIONPROOF
+18"	-	MOUNTING HEIGHT TO CENTERLINE OF DEVICE ABOVE FINISH FLOOR (VERIFY W/ ARCH ELEVS)

NOTES:

- LIGHT LINEWEIGHT INDICATES EXISTING.
- HATCHED AREAS INDICATE DEMOLITION.
- 'C' ADJACENT TO A DEVICE INDICATES MOUNTING ABOVE COUNTERTOP.

ELECTRICAL SHEET INDEX

ISSUE LOG

#	TITLE	FOR AGENCY REVIEW	RFI SET	BID SET
E0.00	ELECTRICAL COVER SHEET	√	√	√
E0.01	ELECTRICAL ONE-LINE DIAGRAM AND SCHEDULES	√	√	√
E0.02	ELECTRICAL LIGHTING FIXTURE CUTSHEETS	√	√	√
E0.03	ELECTRICAL LIGHTING FIXTURE CUTSHEETS	√	√	√
E1.01	ELECTRICAL SITE PLAN WEST	√	√	√
E1.02	ELECTRICAL SITE PLAN EAST	√	√	√

ISSUE LOG KEY:
'√' ISSUED AS PART OF A SET
' ' NOT PART OF SET
'•' ISSUED FOR INFORMATION ONLY

DATE: 09.14.2018 | 11.08.2018 | 02.20.2019

GENERAL NOTES

1. DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS ON ARCHITECTURAL DRAWINGS AND IN FIELD PRIOR TO COMMENCEMENT OF WORK.
2. REVIEW CIVIL, LANDSCAPE ARCHITECT, AND OTHER DRAWINGS PRIOR TO BID.
3. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE OWNER.
4. WORK, MATERIALS, AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE, AND NATIONAL CODES AND ORDINANCES.
5. PROVIDE PERMITS AND INSPECTIONS REQUIRED.
6. CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIALS, EQUIPMENT, OR INSTALLATION METHODS.
7. VERIFY EXACT LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICE FEEDERS (CONDUIT AND/OR WIRE), PULLBOXES, SAWCUTTING AND PATCHING, CONCRETE/PAVING, ETC. REQUIRED. BACKFILL TRENCHES TO 90 PERCENT COMPACTION AND PATCH TO MATCH EXISTING. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS. ELECTRICAL CONTRACTOR IS TO SUBMIT A COMPLETE CONSTRUCTION DRAWING SET TO THE ELECTRICAL UTILITY COMPANY WITHIN 10 DAYS OF AWARD OF CONTRACT. COORDINATE TIMELINE OF THEIR REVIEW, APPROVAL, CONSTRUCTION SCHEDULING AND INSTALLATION OF THE UTILITY TRANSFORMER WITH THE UTILITY COMPANY. NOTIFY OWNER OF ANY SCHEDULING CONFLICTS.
8. VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN.
9. INSTALL ALL MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ANY DEVIATIONS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO INSTALLATION.
10. FINAL CONNECTIONS TO EQUIPMENT SHALL BE IN ACCORDANCE WITH MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS, AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING PROVIDED UNDER THIS SECTION, OR FACTORY WIRING IN EQUIPMENT PROVIDED UNDER THIS SECTION.
12. ALL ELECTRICAL SYSTEM COMPONENTS SHALL BE LISTED OR LABELED BY U.L. OR OTHER RECOGNIZED TESTING FACILITY.
13. ALL WIRING SHALL BE INSTALLED IN LISTED SCHEDULE 80 PVC RACEWAYS, UNLESS NOTED OTHERWISE. CONNECTORS SHALL BE INSULATED THROAT TYPE. MINIMUM RACEWAY SIZE IS 1". ALL FEEDERS SHALL BE INSTALLED IN RACEWAY CONFIGURATIONS SHOWN ON ONE-LINE. BRANCH CIRCUITS 25A AND LARGER SHALL BE INSTALLED IN INDIVIDUAL RACEWAYS. BRANCH CIRCUITS 20A AND SMALLER MAY BE GROUPED INTO RACEWAYS AS TO NOT EXCEED 6 CURRENT-CARRYING 75-DEGREE CONDUCTORS, OR 9 CURRENT-CARRYING 90-DEGREE CONDUCTORS, IN A SINGLE RACEWAY. METAL CLAD CABLE IS NOT PERMITTED.
14. ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A 200LB NYLON PULL STRING OR EQUAL, AND SHALL BE IDENTIFIED AT ALL JUNCTION, PULL AND TERMINATION POINTS, USING PERMANENT METALLIC TAGS. TAG SHALL INDICATE INTENDED USE OF CONDUIT, ORIGINATION, AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.
15. WIRE SHALL BE COPPER, 75 DEGREE CELSIUS RATED FOR GENERAL USE. SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30 DEGREE CELSIUS AMBIENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS.
16. PROVIDE NEW PANELBOARD DIRECTORIES FOR NEW CIRCUITS BEING UTILIZED FOR COMPLETION OF PROJECT.
17. PANEL DIRECTORIES SHALL BE REMOVABLE. DIRECTORIES SHALL BE TYPED AND INSTALLED UNDER CLEAR PLASTIC COVERS.
18. SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO OWNER.
19. GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER.
20. SYSTEMS SHALL BE COMPLETE, OPERABLE, AND READY FOR CONTINUOUS OPERATION. LIGHTS, CONTROLS, EQUIPMENT, ETC. SHALL BE CONNECTED AND OPERABLE.
21. FOR ALL EXTERIOR CONDUCTOR SPLICES IN JUNCTION BOXES, PULL BOXES, OR IN LIGHTING FIXTURE POLES, PROVIDE WEATHERPROOF SPLICE KIT OR WATERPROOF WIRENUTS. MAKE CONNECTIONS OR SPLICES TO ENSURE THAT NO METAL CONDUCTOR IS EXPOSED TO CORROSION.

BG BUILDINGWORKS
systems fulfilled
ALBUQUERQUE | AVON | DENVER | FORT COLLINS
www.bgbuildingworks.com
505.270.5620

COLORADO LICENSED
TIMOTHY MARTIN MCCARTHY
47978
PROFESSIONAL ENGINEER
2/20/19

HAYMEADOW FILING 1
ACCESS & INFRASTRUCTURE PLANS

Current Issue:
100% Construction Documents

Issued:

FOR AGENCY REVIEW	09.14.18
RESPONSE TOWN COMMENTS	02.20.19

Sheet Title:
ELECTRICAL COVER SHEET

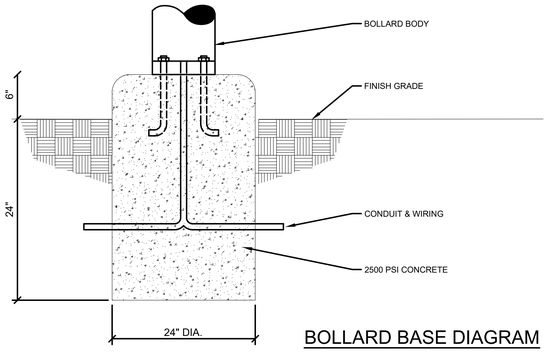
Date:	02/20/19
Designed:	TMM
Reviewed:	TMM
Project No:	10011.00

Sheet No:
E0.00

Scale: As Shown

© 2019 BG BUILDINGWORKS INC

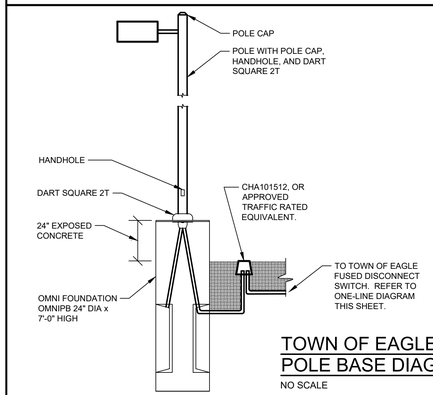
02.21.19 3:32:03 PM S:\BGPROJECTS\10011.00 HAYMEADOW PHASE 1A ROADS & PATHS\DRAWINGS\10011.00E0.00.DWG



BOLLARD BASE DIAGRAM

NO SCALE

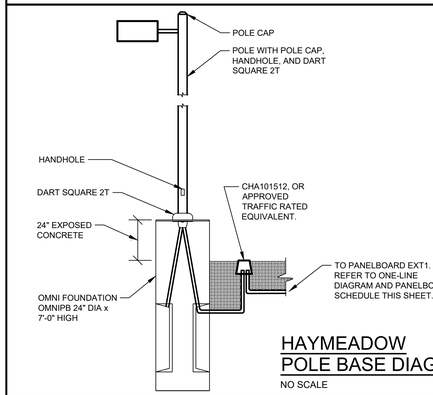
A



TOWN OF EAGLE POLE BASE DIAGRAM

NO SCALE

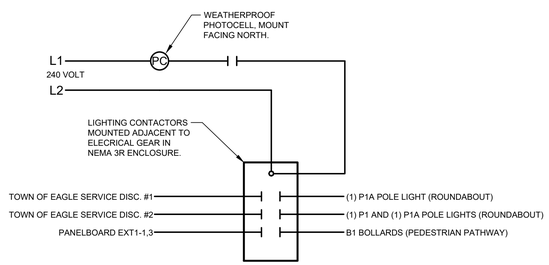
B



HAYMEADOW POLE BASE DIAGRAM

NO SCALE

C



EXTERIOR LIGHTING CONTROL DIAGRAM

NO SCALE

D

SITE LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	LAMPS			INPUT WATTS	VOLT	MANUFACTURER	CATALOG NUMBER	SPECIFIC NOTES
			QTY	TYPE	LUMENS					
B1	(BIKE PATH) 24" LED BOLLARD ON 6" BASE, CROWNED TOP, NO UP-LIGHT OPTIC, TYPE III DISTRIBUTION WITH HOUSE-SIDE SHIELD, DARK BRONZE FINISH	CONCRETE BOLLARD BASE	--	LED	1037	22	UNV	KIM LIGHTING	PA7R-CT-NU-3HS-12L-020-4K7-24A-DB-UNV	1,5
P1	(ROUNDABOUT) LED STREET LIGHT, 20' POLE ON 2' POLE BASE, TYPE III DISTRIBUTION, POLYCARBONATE LENS, DARK BRONZE FINISH	CONCRETE POLE BASE	--	LED	5524	67	240	KIM LIGHTING	1A-CCS17A-3-E35-60L-5K-240-DB-L17F	2,4,6
P1A	(ROUNDABOUT) LED STREET LIGHT, SIMILAR TO TYPE P1 EXCEPT FURNISHED WITH TWO (2) HEADS	CONCRETE POLE BASE	--	LED	(2) 5524	(2) 67	240	KIM LIGHTING	(2) 1A-CCS17A-3-E35-60L-5K-240-DB-L17F	2,4,6
P2	(INTERSECTIONS) LED STREET LIGHT, 20' POLE ON 2' BASE, TYPE III DISTRIBUTION WITH HOUSE-SIDE SHIELD, POLYCARBONATE LENS, INTEGRAL PHOTOCELL, DARK BRONZE FINISH	CONCRETE POLE BASE	--	LED	4258	67	240	KIM LIGHTING	1A-CCS17A-3-E35-60L-4K-240-DB-A32-L17F-NFO	3,4,6

GENERAL NOTES:

A. THE LUMINAIRE SCHEDULE CAN NOT BE USED INDEPENDENTLY OF THE DRAWINGS AND SPECIFICATIONS TO OBTAIN LUMINAIRE COSTS. THE INDIVIDUAL ESTABLISHING LUMINAIRE COSTS SHALL NOT QUOTE PRICING WITHOUT FIRST SEEING APPLICABLE ELECTRICAL DRAWINGS AND ELECTRICAL DIVSION SPECIFICATIONS. THE CONTRACTOR IS REPONSIBLE FOR PROVIDING NECESSARY DRAWINGS AND SPECIFICATIONS TO THE INDIVIDUAL QUOTING LUMINAIRE PRICING.

SPECIFIC NOTES:

(1) REFER TO BOLLARD BASE DIAGRAM A ON THIS SHEET FOR MOUNTING DETAILS.
(2) REFER TO TOWN OF EAGLE POLE BASE DIAGRAM B ON THIS SHEET FOR MOUNTING DETAILS.
(3) REFER TO HAYMEADOW POLE BASE DIAGRAM C ON THIS SHEET FOR MOUNTING DETAILS.
(4) PROVIDE 20' VALMONT R/200045456S4/D1/DDB POLE PER TOWN OF EAGLE STANDARD.
(5) CENTER OF BOLLARD/BASE SHALL BE LOCATED 1' OFF EDGE OF PEDESTRIAN PATHWAY.
(6) CENTER OF POLE/BASE SHALL BE LOCATED 3' OFF BACK OF CURB.

SERVICE WIRING SCHEDULE

AMPS	COPPER			
	(3W)			
	1Ø, 3 WIRE	C.E.C.	G.RING	G. ROD
30	(3#10) 1"C	#8 CU	#8 CU	#8 CU

CONDUIT SIZES ARE BASED ON NEC TABLE 4 (RNC) AND TABLE 5 (THHN INSULATION).

ABBREVIATIONS: C.E.C. - CONCRETE ENCASED ELECTRODE; G.RING. - GROUND RING; G.ROD - GROUND ROD, PIPE OR PLATE ELECTRODE

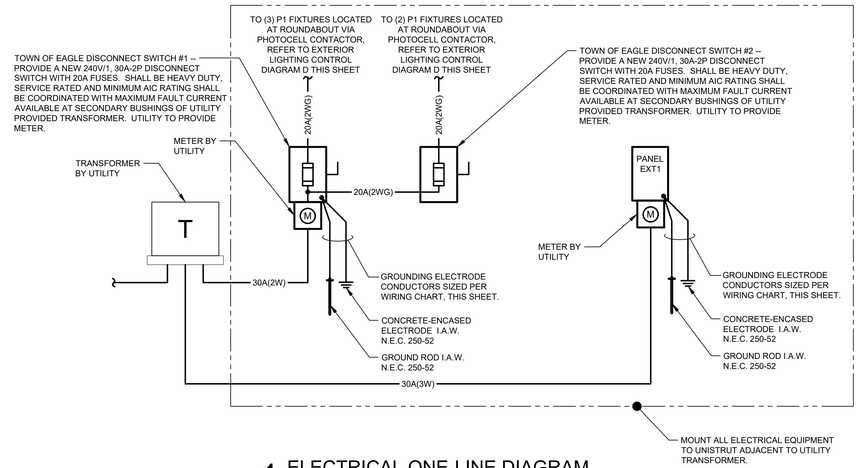
WIRING SCHEDULE - COPPER

AMPS	(2WG)	(3WG)
	1Ø, 2 WIRE, GROUND	1Ø, 3 WIRE, GROUND OR 3Ø, 3 WIRE, GROUND
20	(2#10 & 1#10 G) 1"C*	(3#10 & 1#10 G) 1"C*
30	(2#10 & 1#10 G) 1"C	(3#10 & 1#10 G) 1"C

*CONDUCTORS UPSIZED FOR VOLTAGE DROP CONSIDERATIONS.

CONDUCTOR SIZES ARE BASED ON 60° TERMINATIONS LESS THAN 100A AND 75° TERMINATIONS GREATER THAN 100A.

CONDUIT SIZES ARE BASED ON NEC TABLE 4 (RNC) AND TABLE 5 (THHN INSULATION).



1 ELECTRICAL ONE-LINE DIAGRAM

SCALE: NOT TO SCALE

PANEL:	EXT1	**VOLTAGE:**	120/240V, 1PH, 3W
LOCATION:	ADJACENT TO XFMR	**MINIMUM BUS:**	100
MOUNTING:	SURFACE	**MAIN:**	30/2 CB
		MINIMUM AIC:	SPECIFIC NOTE 1

NO.	LOAD A	LOAD B	TYPE	LOAD DESCRIPTION	BREAKER POLE	BREAKER TRIP	BUS A	BUS B	BREAKER TRIP	BREAKER POLE	TYPE	LOAD DESCRIPTION	LOAD A	LOAD B	NO.
1	143		L	B1 BOLLARDS (2)	2	20	+		20	2	L	P2 POLES	168		2
3		143	L		--	--		+	--	--	L	--		168	4
5	100		E	IRRIGATION CNTRL	1	20	+		1	20		SPARE			6
7				SPARE	1	20		+	1	20		SPARE			8
9				SPACE			+					SPACE			10
11				SPACE				+				SPACE			12
13				SPACE			+					SPACE			14
15				SPACE				+				SPACE			16
17				SPACE			+					SPACE			18

LOAD TYPE	PANEL TOTAL	FEED THRU TOTAL	SUBFEED TOTAL	FEEDER SUBTOTAL	DEMAND	FEEDER TOTAL
(L) LIGHTING	621			621	125%	776
(R) RECEPTACLES	0			0	NEC 220	0
(LM) LRG. MOTOR	0			0	25%	0
(M) MOTORS (ALL)	0			0	100%	0
(E) EQUIPMENT	100			100	100%	100
(A) APPLIANCES	0			0	0	0
				PANEL TOTAL (KVA):		**0.9**
				PANEL TOTAL (A):		**4**

GENERAL NOTES:

A.	PROVIDE NEMA 3R ENCLOSURE.
B.	PANEL SHALL BE SERVICE ENTRANCE RATED.
C.	
D.	
E	

SPECIFIC NOTES:

(1)	COORDINATE MINIMUM AIC WITH MAXIMUM FAULT CURRENT AVAILABLE AT SECONDARY BUSHINGS OF UTILITY PROVIDED TRANSFORMER.
(2)	REFER TO EXTERIOR LIGHTING CONTROL DIAGRAM D FOR CONTROL DETAILS.

BG BUILDINGWORKS systems fulfilled
ALBUQUERQUE | AVON | DENVER | FORT COLLINS
505.270.3620
www.bgbuildingworks.com

COLORADO LICENSED
TIMOTHY MARTIN MCCARTY
47978
PROFESSIONAL ENGINEER
2/20/19

HAYMEADOW FILING 1
ACCESS & INFRASTRUCTURE PLANS

Current Issue:
100% Construction Documents

Issued:

FOR AGENCY REVIEW	09.14.18
RESPONSE TOWN COMMENTS	02.20.19

Sheet Title:
ELECTRICAL ONE-LINE DIAGRAM AND SCHEDULES

Date:	02/20/19
Designed:	TMM
Reviewed:	TMM
Project No:	10011.00

Sheet No:
E0.01

Scale: As Shown

© BUILDINGWORKS, LLC

02.21.19 3:32:13 PM S:\BGPROJECTS\10011.00 HAYMEADOW PHASE 1A ROADS & PATHS\DRAWINGS\10011.00E0.01.DWG

KIM LIGHTING

CC/CCS17
17" Arm Mounted, Curvilinear, PicoEmitter® LED
kl_cc17aeled_spec.pdf

JOB Haymeadow Phase 1A TYPE P1

NOTES APPROVALS

FEATURES
- Full Cutoff PicoEmitter technology
- Patented low profile luminaire¹
- Available in 580nm, 3000K, 4000K and 5000K standard CCT
- Type 1, 2, 3, 4, 5, R, L distributions
- 0-10V dimming drivers standard
- Sealed optical chamber, IP66 certified

Certifications
cULus LISTED; IDA 3000K and warmer CCTs only; DLC; **IK09**

SPECIFICATIONS


17" DIA (432 mm); 4½" (114 mm); 8" (203 mm); 8" (203 mm); 6" (152 mm); 2" (51 mm)

CC CC5 Arm Cross-Section

Max. Weight = 27 lbs. EPA 0.9 for 1A.
See Configuration for Additional EPAs.

ORDERING CODE

Configuration		EPA
•	1A	1 Arm Side Mt. 0.9
••	2B	2 Arm Side Mt. 1.8
⅄	2L	2 Arm Side Mt. 1.6
⁘	3T	3 Arm Side Mt. 2.5
⁂	3Y*	3 Arm Side Mt. 2.5
✣	4C	4 Arm Side Mt. 2.8
⊣	1W	Single Wall Mt. n/a
	HSF	Horizontal Slipfitter n/a

*Available round poles only, EPA is for fixture only

Fixture

Housing	Distribution	Drive Current
CC17A Arm Mount, three reveal	1 Type I	E3S 350mA PicoEmitter
CCS17A Arm Mount, single groove	2 Type II	
	3 Type III	
	4 Type IV	
	5 Type V	
	R Type R, Right	
	L Type L, Left	

Electrical Module

Source	Color Temperature²	Voltages
60L 60 LEDs, 67W	2K 580nm³	120 120V
	3K 3000K	208 208V
	4K 4000K	240 240V
	5K 5000K	277 277V
		347 347V*
		480 480V*

Fixture Finish

BL	Black
DB	Dark Bronze
GT	Graphite
LG	Light Gray
PS	Platinum Silver
TT	Titanium
WH	White
CC	Custom Color*

*Consult Representative

Photocell Options

A25-7	7-pin Photocell Receptacle
A30	120V Button Photocell
A31	208V Button Photocell
A32	240V Button Photocell
A33	277V Button Photocell
A34	480V Button Photocell
A35	347V Button Photocell

For Pole Spec Select: http://www.kimlighting.com/products/arms_and_poles/
For Control Spec Select: http://tryssl.com/en/index.html

Fuse Options

SF	120, 277, 347 Line Volts
DF	208, 240, 480 Line Volts

Lens Options

L17F	Polycarbonate Lens⁵

NFO Option

NFO	Neighbor Friendly Optic. Photosensitivity available for Type III/IV. All others, consult factory.

Other Options

REV	Accent Reveal⁶

Control Accessories

SW7PR[7,8]	Site Sync with 7 pin PCR
SWUSB[8]	SiteSync Software on USB
SWTAB[8]	SiteSync Windows® Tablet
SWBRG[8]	SiteSync Wireless Bridge Node
WIR-RME-L	wiSCAPE External Fixture Module

† When ordering with SiteSync, one of the following interface options must be chosen and ordered separately. Each option contains the SiteSync License, GUI and Bridge Node.

SiteSync Lighting Control is available from our most popular brands in a broad range of award-winning product families.

Control Options

Wireless

WIR-RMI-IO	120-347V, 1000' range, WiScape RF mesh control system with office/dim, motion, photo, OPS location, alert, monitoring and metering capabilities.

Motion

SCL-R	Round Pole Mounted Occupancy Sensor up to 16'
SCL-S	Square Pole Mounted Occupancy Sensor up to 16'
SCH-R	Round Pole Mounted Occupancy Sensor 16' to 30'
SCH-S	Square Pole Mounted Occupancy Sensor 16' to 30'

Mounting Options

VSF	Vertical Slipfitter Mount for 2" pipe tenon, (2-3/8" O.D.)
SVSF	Vertical Slipfitter Mount square for 2" pipe tenon, (2-3/8" O.D.)

Side Arm Mount

3	3" O.D. Pole
3.5	3.5" O.D. Pole
4	4" O.D. Pole
5	5" O.D. Pole
6	6" O.D. Pole
SQ	Square Pole

[1] US Patent No. D568,521 S. Other patents pending.
[2] For custom optics and color temperature configurations, contact factory.
[3] Turtle friendly. Maximum 500mA drive current for 2K amber option.
[4] 347V & 480V currents may be supplied with step-down transformer.
[5] Use only when vandalism is anticipated to be high. Required only for vandal protection in locations where fixtures can be reached by unauthorized persons.
[6] CC only. Available in 6 standard fixture finishes. Specify finish, example: BL-REV.
[7] Not available with other sensor or wireless control options.
[8] Specify group and zone at time of order. See www.hubbelllighting.com/sitesync for more details. Order at least one SiteSync interface accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node.

Kim Lighting reserves the right to change specifications without notice.

© 2016 KIM LIGHTING | 16555 East Gale Ave. | City of Industry | CA 91745
P 626.968.5666 | F 626.369.2695 | www.kimlighting.com | Rev. Jun. 13, 2018

HUBBELL Lighting

KIM LIGHTING
CC/CCS17
17" Arm Mounted, Curvilinear, PicoEmitter® LED
kl_cc17aeled_spec.pdf

LUMINAIRE PERFORMANCE

Spectroradiometric

	3000K Average	4000K Average	5000K Average
Color Rendering Index (CRI)	≥80	≥80	≥70
Power Factor	>.90	>.90	>.90

Projected Lumen Maintenance

mA	100,000 hrs	(Calculated L70)
350	93.22%	584,000 hrs.

Electrical Drive Current

Volts - AC	Amps - AC	System Watts
120	0.56	67
208	0.32	67
240	0.28	67
277	0.24	67
347	0.19	67
480	0.14	67

B.U.G. Rating (TM15) in Lumens wher B = Backlight, U = Uplight, G = Glare

Temperature	TYPE 1	TYPE 2	TYPE 3	TYPE 3 NFO	TYPE 4	TYPE 4 NFO	TYPE 5	TYPE L/R
3000K	B2 U0 G2	B1 U0 G1	B1 U0 G1	B1 U0 G1	B1 U0 G1	B0 U0 G1	B2 U0 G1	TBD
4000K	B3 U0 G3	B2 U0 G2	B1 U0 G1	B1 U0 G1	B1 U0 G2	B1 U0 G1	B3 U0 G1	TBD
5000K	B3 U0 G3	B2 U0 G2	B1 U0 G1	B1 U0 G1	B1 U0 G2	B1 U0 G1	B3 U0 G1	TBD

Absolute Lumens

Temperature	TYPE 1	TYPE 2	TYPE 3	TYPE 3 NFO	TYPE 4	TYPE 4 NFO	TYPE 5	TYPE L/R
3000K	3861	3959	3931	3248	3912	3294	3971	TBD
4000K	5062	5190	4972	4258	5129	4319	5206	TBD
5000K	5426	5564	5524	4564	5581	4626	5576	TBD

LED performance and lumen output continues to improve at a rapid pace. Log onto www.kimlighting.com to download the most current photometric files from Kim Lighting's IES File Library. For custom optics and color temperature configurations, contact factory.

Kim Lighting reserves the right to change specifications without notice.

© 2016 KIM LIGHTING | 16555 East Gale Ave. | City of Industry | CA 91745
P 626.968.5666 | F 626.369.2695 | www.kimlighting.com | Rev. Jun. 13, 2018

HUBBELL Lighting

KIM LIGHTING
CC/CCS17
17" Arm Mounted, Curvilinear, PicoEmitter® LED
kl_cc17aeled_spec.pdf

SPECIFICATIONS

Housing:
- One-piece die-cast, low copper (<0.6% Cu) aluminumalloy with integral cooling ribs over the optical chamber and electrical compartment.
- Solid barrier wall separates optical and electrical compartments.
- Double-thick wall with gussets on the support-arm mounting end.
- Housing forms a half cylinder with 55° front face plane providing a recess to allow a flush single-latch detail.
- All hardware is stainless steel or electro-zinc plated steel.

Lens Frame:
- One-piece die-cast, low copper (<0.6% Cu) aluminum alloy lens frame with 1° minimum depth around the gasket flange.
- Integral hinges with stainless steel pins provide no-tool mounting and removal from housing.
- Single die-cast aluminum cam-latch provides positive locking and sealing of the optical chamber by a one-piece extruded and vulcanized silicone gasket to provide an IP66 rating for the optical module.
- Clear 3/8" thick tempered glass lens retained by eight steel clips with full silicone gasketing around the perimeter.

Neighbor Friendly Optic
- Integrated Neighbor Friendly Optic on each PicoEmitter module to completely control unwanted backlight. Most effective with Type III and IV distibutions.

Lens:
- Fixture supplied with a one-piece flat, clear, UV stabilized polycarbonate, fully gasketed, replacing the standard tempered glass lens. **CAUTION:** Use only when vandalism is anticipated to be high. Useful life is limited by UV discoloration from sunlight. A program of regular inspection and periodic replacement is highly recommended to maintain optimum fixture performance.

Optical Module:
- Precision, replaceable PicoEmitters are positioned to achieve directional control toward desired task.
- The entire EmitterDeck fastens to the housing as a one-piece module.
- Type I, II, III, IV, V, L (left), and R (right) standard distributions. Custom available.
- 3000K, 4000K, 5000K standard CCT. Amber and custom available.
- IP66 certified
- Die-cast, low copper aluminum heat sink modules provide thermal transfer at PCB level.
- Anodized aluminum carrier plate and heat sink modules.

Electrical Characteristics:
- 120V through 480V @ 50/60Hz.
- Class 1, 350mA.
- Power Factor = >.90
- National Electrical Code, ANSI/NFPA 70.
- 10kV surge suppression.
- Thermalshield thermal control.
- -40c starting driver.
- 0-10V dimming interface.
- All electronic components are IP66 rated.
- Electronic components are UL and/or CSA recognized.

Dimming:
- 10% to 100% dimming using standard 0-10V interface driver.
- To activate the dimming system, a wiring harness is supplied and attached to the DIM Port (DIM IN) on the thermal shield protection system. This port allows the 0-10V Interface to bypass the thermal shield and control the driver.
- The thermal shield works in conjunction with the control system to assure that overheating will not harm the LEDs.

The wiring harness is connected with the use of the Purple lead as the positive (+) and the Grey lead as the negative (-) to an available control signal (by others).



Support Arm:
- One-piece extruded aluminum with internal bolt guides and fully radiussed top and bottom.
- Luminaire-to-pole attachment is by internal draw bolts, and includes a pole reinforcing plate with wire strain relief.
- Arm is circular cut for specified round pole.
- Optional cast, low copper aluminum horizontal slip-fitter with adaptor plate to secure the luminaire to 2" IPS pipe size arms.
- Optional cast aluminum wall mount plate assembly. Attaches to the wall over the junction box. Luminaire attaches to the wall plate.

Finish:
- Fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat.
- Standard colors include (BL) Black, (DB) Dark Bronze, (GT) Graphite, (WH) White, (PS) Platinum Silver, (LG) Light Gray, (TT) Titanium, and (CC) Custom Color (Include RAL#).

Fusing:
SF for 120, 277 and 347 Line Volts
DF for 208, 240 and 480 Line Volts.
- High temperature fuse holders factory installed inside the fixture housing. Fuse is included.

Certifications and Listings:
- UL 1598 Standard for wet locations for Luminaires.
- UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products.
- IP66 certified.
- IK09 rated.
- CSA C22.2#250.0 Luminaires.
- ANSI C136.31-2010 3G Vibration tested and compliant.
- RoHS compliant.
- IDA approved, 3000K and warmer CCTs only.

CAUTION:
- Fixtures must be grounded in accordance with national, state and/or local electrical codes, Failure to do so may result in serious personal injury.

WARRANTY:
- For full warranty see http://www.hubbelllighting.com/resources/warranty

Kim Lighting reserves the right to change specifications without notice.

© 2016 KIM LIGHTING | 16555 East Gale Ave. | City of Industry | CA 91745
P 626.968.5666 | F 626.369.2695 | www.kimlighting.com | Rev. Jun. 13, 2018

HUBBELL Lighting

KIM LIGHTING
CC/CCS17
17" Arm Mounted, Curvilinear, PicoEmitter® LED
kl_cc17aeled_spec.pdf

JOB Haymeadow Phase 1A TYPE P2

NOTES APPROVALS

FEATURES
- Full Cutoff PicoEmitter technology
- Patented low profile luminaire¹
- Available in 580nm, 3000K, 4000K and 5000K standard CCT
- Type 1, 2, 3, 4, 5, R, L distributions
- 0-10V dimming drivers standard
- Sealed optical chamber, IP66 certified

Certifications: cULus LISTED; IDA 3000K and warmer CCTs only; DLC; IK09

SPECIFICATIONS



17" DIA (432 mm); 4½" (114 mm); 8" (203 mm); 8" (203 mm); 6" (152 mm); 2" (51 mm)

CC CC5 Arm Cross-Section

Max. Weight = 27 lbs. EPA 0.9 for 1A.
See Configuration for Additional EPAs.

ORDERING CODE

Configuration: 1A 1 Arm Side Mt. 0.9; 2B 2 Arm Side Mt. 1.8; 2L 2 Arm Side Mt. 1.6; 3T 3 Arm Side Mt. 2.5; 3Y* 3 Arm Side Mt. 2.5; 4C 4 Arm Side Mt. 2.8; 1W Single Wall Mt. n/a; HSF Horizontal Slipfitter n/a

*Available round poles only, EPA is for fixture only

Fixture — Housing: CC17A Arm Mount, three reveal; CCS17A Arm Mount, single groove. Distribution: 1 Type I; 2 Type II; 3 Type III; 4 Type IV; 5 Type V; R Type R, Right; L Type L, Left. Drive Current: E3S 350mA PicoEmitter

Electrical Module — Source: 60L 60 LEDs, 67W. Color Temperature²: 2K 580nm³; 3K 3000K; 4K 4000K; 5K 5000K. Voltages: 120 120V; 208 208V; 240 240V; 277 277V; 347 347V*; 480 480V*

Fixture Finish: BL Black; DB Dark Bronze; GT Graphite; LG Light Gray; PS Platinum Silver; TT Titanium; WH White; CC Custom Color*

*Consult Representative

Photocell Options: A25-7 7-pin Photocell Receptacle; A30 120V Button Photocell; A31 208V Button Photocell; A32 240V Button Photocell; A33 277V Button Photocell; A34 480V Button Photocell; A35 347V Button Photocell

For Pole Spec Select: http://www.kimlighting.com/products/arms_and_poles/
For Control Spec Select: http://tryssl.com/en/index.html

Fuse Options: SF 120, 277, 347 Line Volts; DF 208, 240, 480 Line Volts

Lens Options: L17F Polycarbonate Lens⁵

NFO Option: NFO Neighbor Friendly Optic. Photosensitivity available for Type III/IV. All others, consult factory.

Other Options: REV Accent Reveal⁶

Control Accessories: SW7PR[7,8] Site Sync with 7 pin PCR; SWUSB[8] SiteSync Software on USB; SWTAB[8] SiteSync Windows® Tablet; SWBRG[8] SiteSync Wireless Bridge Node; WIR-RME-L wiSCAPE External Fixture Module

† When ordering with SiteSync, one of the following interface options must be chosen and ordered separately. Each option contains the SiteSync License, GUI and Bridge Node.

SiteSync Lighting Control is available from our most popular brands in a broad range of award-winning product families.

Control Options: Wireless — WIR-RMI-IO 120-347V, 1000' range, WiScape RF mesh control system with office/dim, motion, photo, OPS location, alert, monitoring and metering capabilities. Motion — SCL-R Round Pole Mounted Occupancy Sensor up to 16'; SCL-S Square Pole Mounted Occupancy Sensor up to 16'; SCH-R Round Pole Mounted Occupancy Sensor 16' to 30'; SCH-S Square Pole Mounted Occupancy Sensor 16' to 30'

Mounting Options: VSF Vertical Slipfitter Mount for 2" pipe tenon, (2-3/8" O.D.); SVSF Vertical Slipfitter Mount square for 2" pipe tenon, (2-3/8" O.D.)

Side Arm Mount: 3 3" O.D. Pole; 3.5 3.5" O.D. Pole; 4 4" O.D. Pole; 5 5" O.D. Pole; 6 6" O.D. Pole; SQ Square Pole

[1] US Patent No. D568,521 S. Other patents pending.
[2] For custom optics and color temperature configurations, contact factory.
[3] Turtle friendly. Maximum 500mA drive current for 2K amber option.
[4] 347V & 480V currents may be supplied with step-down transformer.
[5] Use only when vandalism is anticipated to be high. Required only for vandal protection in locations where fixtures can be reached by unauthorized persons.
[6] CC only. Available in 6 standard fixture finishes. Specify finish, example: BL-REV.
[7] Not available with other sensor or wireless control options.
[8] Specify group and zone at time of order. See www.hubbelllighting.com/sitesync for more details. Order at least one SiteSync interface accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node.

Kim Lighting reserves the right to change specifications without notice.

© 2016 KIM LIGHTING | 16555 East Gale Ave. | City of Industry | CA 91745
P 626.968.5666 | F 626.369.2695 | www.kimlighting.com | Rev. Jun. 13, 2018

HUBBELL Lighting

| 1 |

KIM LIGHTING
CC/CCS17
17" Arm Mounted, Curvilinear, PicoEmitter® LED
kl_cc17aeled_spec.pdf

LUMINAIRE PERFORMANCE

Spectroradiometric: Color Rendering Index (CRI) ≥80 / ≥80 / ≥70; Power Factor >.90 / >.90 / >.90

Projected Lumen Maintenance: mA 350; 100,000 hrs 93.22%; (Calculated L70) 584,000 hrs.

Electrical Drive Current

Volts - AC	Amps - AC	System Watts
120	0.56	67
208	0.32	67
240	0.28	67
277	0.24	67
347	0.19	67
480	0.14	67

B.U.G. Rating (TM15) in Lumens wher B = Backlight, U = Uplight, G = Glare

Temperature	TYPE 1	TYPE 2	TYPE 3	TYPE 3 NFO	TYPE 4	TYPE 4 NFO	TYPE 5	TYPE L/R
3000K	B2 U0 G2	B1 U0 G1	B1 U0 G1	B1 U0 G1	B1 U0 G1	B0 U0 G1	B2 U0 G1	TBD
4000K	B3 U0 G3	B2 U0 G2	B1 U0 G1	B1 U0 G1	B1 U0 G2	B1 U0 G1	B3 U0 G1	TBD
5000K	B3 U0 G3	B2 U0 G2	B1 U0 G1	B1 U0 G1	B1 U0 G2	B1 U0 G1	B3 U0 G1	TBD

Absolute Lumens

Temperature	TYPE 1	TYPE 2	TYPE 3	TYPE 3 NFO	TYPE 4	TYPE 4 NFO	TYPE 5	TYPE L/R
3000K	3861	3959	3931	3248	3912	3294	3971	TBD
4000K	5062	5190	4972	4258	5129	4319	5206	TBD
5000K	5426	5564	5524	4564	5581	4626	5576	TBD

LED performance and lumen output continues to improve at a rapid pace. Log onto www.kimlighting.com to download the most current photometric files from Kim Lighting's IES File Library. For custom optics and color temperature configurations, contact factory.

Kim Lighting reserves the right to change specifications without notice.

© 2016 KIM LIGHTING | 16555 East Gale Ave. | City of Industry | CA 91745
P 626.968.5666 | F 626.369.2695 | www.kimlighting.com | Rev. Jun. 13, 2018

HUBBELL Lighting

| 2 |

KIM LIGHTING
CC/CCS17
17" Arm Mounted, Curvilinear, PicoEmitter® LED
kl_cc17aeled_spec.pdf

SPECIFICATIONS

Housing:
- One-piece die-cast, low copper (<0.6% Cu) aluminumalloy with integral cooling ribs over the optical chamber and electrical compartment.
- Solid barrier wall separates optical and electrical compartments.
- Double-thick wall with gussets on the support-arm mounting end.
- Housing forms a half cylinder with 55° front face plane providing a recess to allow a flush single-latch detail.
- All hardware is stainless steel or electro-zinc plated steel.

Lens Frame:
- One-piece die-cast, low copper (<0.6% Cu) aluminum alloy lens frame with 1° minimum depth around the gasket flange.
- Integral hinges with stainless steel pins provide no-tool mounting and removal from housing.
- Single die-cast aluminum cam-latch provides positive locking and sealing of the optical chamber by a one-piece extruded and vulcanized silicone gasket to provide an IP66 rating for the optical module.
- Clear 3/8" thick tempered glass lens retained by eight steel clips with full silicone gasketing around the perimeter.

Neighbor Friendly Optic
- Integrated Neighbor Friendly Optic on each PicoEmitter module to completely control unwanted backlight. Most effective with Type III and IV distibutions.

Lens:
- Fixture supplied with a one-piece flat, clear, UV stabilized polycarbonate, fully gasketed, replacing the standard tempered glass lens. CAUTION: Use only when vandalism is anticipated to be high. Useful life is limited by UV discoloration from sunlight. A program of regular inspection and periodic replacement is highly recommended to maintain optimum fixture performance.

Optical Module:
- Precision, replaceable PicoEmitters are positioned to achieve directional control toward desired task.
- The entire EmitterDeck fastens to the housing as a one-piece module.
- Type I, II, III, IV, V, L (left), and R (right) standard distributions. Custom available.
- 3000K, 4000K, 5000K standard CCT. Amber and custom available.
- IP66 certified
- Die-cast, low copper aluminum heat sink modules provide thermal transfer at PCB level.
- Anodized aluminum carrier plate and heat sink modules.

Electrical Characteristics:
- 120V through 480V @ 50/60Hz.
- Class 1, 350mA.
- Power Factor = >.90
- National Electrical Code, ANSI/NFPA 70.
- 10kV surge suppression.
- Thermalshield thermal control.
- -40c starting driver.
- 0-10V dimming interface.
- All electronic components are IP66 rated.
- Electronic components are UL and/or CSA recognized.

Dimming:
- 10% to 100% dimming using standard 0-10V interface driver.
- To activate the dimming system, a wiring harness is supplied and attached to the DIM Port (DIM IN) on the thermal shield protection system. This port allows the 0-10V Interface to bypass the thermal shield and control the driver.
- The thermal shield works in conjunction with the control system to assure that overheating will not harm the LEDs.

The wiring harness is connected with the use of the Purple lead as the positive (+) and the Grey lead as the negative (-) to an available control signal (by others).

Support Arm:
- One-piece extruded aluminum with internal bolt guides and fully radiussed top and bottom.
- Luminaire-to-pole attachment is by internal draw bolts, and includes a pole reinforcing plate with wire strain relief.
- Arm is circular cut for specified round pole.
- Optional cast, low copper aluminum horizontal slip-fitter with adaptor plate to secure the luminaire to 2" IPS pipe size arms.
- Optional cast aluminum wall mount plate assembly. Attaches to the wall over the junction box. Luminaire attaches to the wall plate.

Finish:
- Fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat.
- Standard colors include (BL) Black, (DB) Dark Bronze, (GT) Graphite, (WH) White, (PS) Platinum Silver, (LG) Light Gray, (TT) Titanium, and (CC) Custom Color (Include RAL#).

Fusing:
SF for 120, 277 and 347 Line Volts
DF for 208, 240 and 480 Line Volts.
- High temperature fuse holders factory installed inside the fixture housing. Fuse is included.

Certifications and Listings:
- UL 1598 Standard for wet locations for Luminaires.
- UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products.
- IP66 certified.
- IK09 rated.
- CSA C22.2#250.0 Luminaires.
- ANSI C136.31-2010 3G Vibration tested and compliant.
- RoHS compliant.
- IDA approved, 3000K and warmer CCTs only.

CAUTION:
- Fixtures must be grounded in accordance with national, state and/or local electrical codes, Failure to do so may result in serious personal injury.

WARRANTY:
- For full warranty see http://www.hubbelllighting.com/resources/warranty

Kim Lighting reserves the right to change specifications without notice.

© 2016 KIM LIGHTING | 16555 East Gale Ave. | City of Industry | CA 91745
P 626.968.5666 | F 626.369.2695 | www.kimlighting.com | Rev. Jun. 13, 2018

HUBBELL Lighting

| 3 |

BG BUILDINGWORKS systems fulfilled
ALBUQUERQUE | AVON | DENVER | FORT COLLINS
970.377.3620 www.bgbuildingworks.com

COLORADO LICENSED PROFESSIONAL ENGINEER TIMOTHY MARTIN 47978 STATE OF COLORADO 12/20/19

HAYMEADOW FILING 1
ACCESS & INFRASTRUCTURE PLANS

Current Issue: 100% Construction Documents

Issued:

FOR AGENCY REVIEW	09.14.18
RESPONSE TOWN COMMENTS	02.20.19

Sheet Title: ELECTRICAL LIGHTING FIXTURE CUTSHEETS

Date:	02/20/19
Designed:	TMM
Reviewed:	TMM
Project No:	10011.00

Sheet No: E0.02

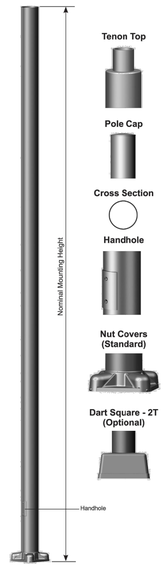
Scale: As Shown

02.21.19 3:32:25 PM S:\BGPROJECTS\10011.00 HAYMEADOW PHASE 1A ROADS & PATHS\DRAWINGS\10011.00E0.02.DWG

valmont STRUCTURES

16' to 30' ROUND NON-TAPERED ALUMINUM
4-Bolt Anchor Base

Job Name: Haymeadow Phase 1A
Job Location - City: Eagle State: IA
Product: Quote:
Client Name:
Created By: Date:
Customer Approval: Date:



SPECIFICATIONS

Pole - The pole shaft is extruded from seamless alloy aluminum.

Pole Top - A pole top tenon is provided for top mount luminaire and/or bracket. A removable pole cap is available for poles receiving drilling patterns for side-mount luminaire arm assemblies.

Handhole - A covered handhole with hardware and grounding provision are provided.

Base Cover - Optional Dart Square-2T cast and decorative base covers available as special order.

Anchor Base - The anchor base is cast from 356 alloy aluminum. The completed assembly is heat-treated to a T6 temper. Aluminum nut covers are included with anchor base unless otherwise specified.

Anchor Bolts - Anchor bolts conform to ASTM F1554 Grade 55 and are provided with two hex nuts and two flat washers. Bolts have an "L" bend on one end and are galvanized a minimum of 12" on the threaded end.

Finish - The standard finish for the pole assembly and components is satin brushed, natural anodize, duranodic or polyester powder applied coating in accordance with Valmont's Specifications. Additional finish options available upon request.

Design Criteria - Please reference Design Criteria Specification for appropriate design conditions.

Poles - Aluminum
RNTA / 4-Bolt Anchor Base
16' to 30'

valmont STRUCTURES

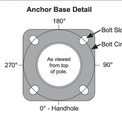
16' to 30' ROUND NON-TAPERED ALUMINUM
4-Bolt Anchor Base

Job Name: Haymeadow Phase 1A
Job Location - City: Eagle State: IA
Product: Quote:
Client Name:
Created By: Date:
Customer Approval: Date:

ANCHORAGE DATA

POLE	BASE PLATE					ANCHOR BOLTS		
BASE OD (IN)	WALL THK (IN)	BOLT CIRCLE DIA (IN)	BOLT CIRCLE Ø (IN)	SQUARE (IN)	THK (IN)	DIA x LENGTH + HOOK (IN)	PROJECTION (IN)	Ø (IN)
4.00	0.125	7.50	0.75	8.91	0.630	0.75 x 17.00 x 3.00	3.25	N/A
4.50	0.125	7.84	0.78	9.26	0.630	0.75 x 17.00 x 3.00	3.25	N/A
4.50	0.188	7.84	0.78	9.26	0.630	0.75 x 17.00 x 3.00	3.25	N/A
5.00	0.125	8.63	0.88	9.61	0.630	0.75 x 17.00 x 3.00	3.25	N/A
5.00	0.156	8.63	0.88	9.61	0.630	0.75 x 17.00 x 3.00	3.25	N/A
5.00	0.188	8.63	0.88	9.61	0.630	0.75 x 17.00 x 3.00	3.25	N/A
6.00	0.156	9.50	0.75	10.32	0.630	0.75 x 17.00 x 3.00	3.50	N/A
6.00	0.188	9.50	0.75	10.32	0.630	0.75 x 17.00 x 3.00	3.50	N/A

Anchor Base Detail



LOAD AND DIMENSIONAL DATA

NOMINAL MOUNTING HEIGHT	DESIGN INFORMATION 70 MPH w/1.3 GUST MAX EPA (SQ FT)	70 MPH w/1.3 GUST MAX WEIGHT (LBS)	90 MPH w/1.3 GUST MAX EPA (SQ FT)	90 MPH w/1.3 GUST MAX WEIGHT (LBS)	100 MPH w/1.3 GUST MAX EPA (SQ FT)	100 MPH w/1.3 GUST MAX WEIGHT (LBS)	110 MPH w/1.3 GUST MAX EPA (SQ FT)	110 MPH w/1.3 GUST MAX WEIGHT (LBS)	POLE DIMENSIONS POLE HEIGHT	BASE OD (IN)	TOP OD (IN)	WALL THK (IN)	STRUCTURE WEIGHT‡ (LBS)	MODEL NUMBER
16'-0"	3.2	100	1.9	100	1.0	100	0.5	100	0.2	100	16'-0"	4.00	4.00	0.125	33	20004404034
	5.1	100	3.3	100	2.2	100	1.6	100	1.2	100	16'-0"	4.50	4.50	0.125	37	20004454534
	8.7	100	6.0	100	4.3	100	3.4	100	2.6	100	16'-0"	4.50	4.50	0.188	53	20004454634
	7.4	100	5.1	100	3.8	100	3.0	100	2.3	100	16'-0"	5.00	5.00	0.125	41	18005050534
	9.8	100	6.9	100	5.3	100	4.1	100	3.3	100	16'-0"	5.00	5.00	0.156	50	18005050634
	12.2	100	8.7	100	6.7	100	5.3	100	4.2	100	16'-0"	5.00	5.00	0.188	58	18005050654
	17.9	100	13.5	100	10.5	100	8.3	100	6.8	100	16'-0"	6.00	6.00	0.156	59	18006060654
	21.9	100	16.5	100	12.8	100	10.3	100	8.4	100	16'-0"	6.00	6.00	0.188	70	18006060854
18'-0"	6.7	100	4.5	100	3.1	100	2.3	100	1.8	100	18'-0"	4.50	4.50	0.188	59	18004454654
	5.6	100	3.7	100	2.7	100	2.0	100	1.5	100	18'-0"	5.00	5.00	0.125	45	18005050554
	7.7	100	5.2	100	3.9	100	3.0	100	2.3	100	18'-0"	5.00	5.00	0.156	55	18005050564
	8.7	100	6.8	100	5.1	100	4.0	100	3.1	100	18'-0"	5.00	5.00	0.188	65	18005050654
	18.0	100	13.5	100	10.5	100	8.3	100	6.7	100	18'-0"	6.00	6.00	0.188	74	18006060654
20'-0"	3.1	100	2.2	100	1.7	100	1.4	100	1.0	100	20'-0"	4.00	4.00	0.188	64	20004454654
	4.1	100	2.4	100	1.7	100	1.2	100	0.9	100	20'-0"	5.00	5.00	0.125	50	20005050434
	5.9	100	3.8	100	2.8	100	2.2	100	1.5	100	20'-0"	5.00	5.00	0.156	61	20005050534
	7.6	100	5.2	100	3.8	100	2.9	100	2.2	100	20'-0"	5.00	5.00	0.188	72	20005050634
	11.9	100	8.8	100	6.7	100	5.3	100	4.2	100	20'-0"	6.00	6.00	0.156	73	20006060554
	14.9	100	11.1	100	8.5	100	6.7	100	5.4	100	20'-0"	6.00	6.00	0.188	86	20006060654
25'-0"	2.1	100	1.5	100	1.0	100	0.8	100	0.6	100	25'-0"	4.50	4.50	0.188	79	+20045465834
	6.9	100	4.9	100	3.6	100	2.7	100	2.0	100	25'-0"	6.00	6.00	0.156	90	+25006060554
	9.2	100	6.6	100	4.9	100	3.8	100	2.9	100	25'-0"	6.00	6.00	0.188	108	25006060654
30'-0"	5.0	100	3.4	100	2.3	100	1.8	100	1.1	100	30'-0"	6.00	6.00	0.188	127	+30006060654

1. EPA represents the Effective Projected Area of each luminaire. Designs are limited to top mount or side-mount luminaires. Variations from sizes above are available upon inquiry at the factory. Satisfactory performance of poles is dependent upon the pole being properly attached to a supporting foundation of adequate design.
2. Structure weight is a nominal value which includes the pole shaft and base plate.
+ Pole includes factory installed vibration damper.

PRODUCT ORDERING CODES

CROSS SECTION	MODEL NUMBER	FIXTURE MOUNTING	COLOR	OPTIONS
R	20004454654	D1	DDB	_
R = Round		**Drill Mounting** D1 = 1 Luminaire D2 = 2 @ 180° D3 = 3 @ 120° D4 = 4 @ 90° D5 = 2 @ 90° D6 = 3 @ 90° **Tenon Mounting** P2 = 2.38" OD x 4.00" P3 = 3.50" OD x 6.00" P4 = 4.00" OD x 6.00" P5 = 2.88" OD x 4.00" P7 = 2.38" OD x 5.00" PQ = 2.38" OD x 12.00" PD = 3.00" OD x 3.00" -- = Plain Top P9 = Other Tenon (Contact Factory)	**Polyester Powder** DWH= White DSB = Bandstone BR = Burgundy HG = Hunter Green DNA = Natural Aluminum DCG = Charcoal Gray DMB = Medium Bronze DBN = Sanded Brown DNB = New Dark Bronze DDB = Dark Bronze DBK = Sanded Black DBL = Black DSB = Steel Blue DTG = Dark Green DBR = Red SC = Special Color (Contact Factory) **Anodized** 204 = Clear Natural 311 = Light Bronze* 312 = Medium Bronze* 313 = Dark Bronze* 335 = Black* *Duranodic Anodize **Brushed** SBF = Satin Brushed	See Accessories at valmontstructures.com (Please Specify with Code)

16004404034	20005050634	
16004454534	20005050654	
16004454654	20006060634	
16005050534	+20045465834	
16005050554	+25006060554	
16005050634	25006060654	
16006060634	+30006060654	
16006060654		
18004454654		
18005050534		
18005050554		
18005050634		
18006060654		
20004454654		
20005050434		
20005050534		

SPC7545 06/13 valmontstructures.com carries the most current spec information and supersedes these guidelines.

KIM LIGHTING

PA7R
Pavilion™ Bollard kl_pa7r_spec.pdf

JOB Haymeadow Phase 1A TYPE B1
NOTES APPROVALS

FEATURES
- Traditional or Performance Optics
- Bluetooth enabled RGBW accent
- Integral NEMA 3R Enclosure
- Dual receptacle power panel
- PA System capability
- IP66 optical system

CERTIFICATIONS
cULus LISTED · DLC · IK10
NU configurations in 3000K and warmer CCTs only

SPECIFICATIONS



FT Flat Top: 5.7" (145 mm); 41.7" (1059 mm); 36.0" (914 mm); 7" (178 mm Ø)
CT Crowned Top: 8.5" (216 mm); 42.5" (1080 mm); 36.0" (914 mm); 7" (178 mm Ø)
UO: NU No Up-light
OPTICS Clear Lens: CH Horizontal Lens; CL Vertical Lens; LV Louver; GC Grille
Diffuse Lens: DL Vertical Lens; GD Grille

ORDERING CODE

Model	Top	Optics	Distribution	Light Engine
PA7R Pavilion 7" Ø Round	FT Flat Top	NU No Up-light	1 Type I	12L-010-5K7 14W (1000 nominal lm), 5000K, 70 CRI
	CT[1] Crowned Top	CH Clear Horizontal Lens	2 Type II	12L-010-4K7 14W (1000 nominal lm), 4000K, 70 CRI
		CL[1] Clear Vertical Lens	3 Type III	12L-010-3K7 14W (1000 nominal lm), 3000K, 70 CRI
		DL[1,2] Diffuse Vertical Lens	3HS Type III + House side shield	12L-010-AMB 14W, Amber 560 nm Monochromatic
		LV Louvers	4 Type IV	12L-020-5K7 22W (2000 nominal lm), 5000K, 70 CRI
		GC Grille with clear vertical lens	5 Type V	12L-020-4K7 22W (2000 nominal lm), 4000K, 70 CRI
		GD[1] Grille with diffuse vertical lens		12L-020-3K7 22W (2000 nominal lm), 3000K, 70 CRI
				12L-020-AMB 22W, Amber 560 nm Monochromatic

Body	Fixture Finish	Controls	Voltage	Options
24A 24" OAH, Aluminum	BL Black	SWP[3,4] SiteSync pre-commission	UNV 120-277V	EM[7] Battery Backup
42A 42" OAH, Aluminum	DB Dark Bronze	MW[4] Motion sensing (50% dim, 100% output upon detection)	120[8] 120V	LR[8] Luminous Accent
42BR-C 42" OAH, Brown Concrete	LG Light Gray	SiteSync Accessories[5]	277[8] 208-277V	SF[7] Single Fuse
42NG-C 42" OAH, Natural Gray Concrete	GT Graphite	SWSUSB SiteSync Software on USB	347[8] 347V	DF[7] Double Fuse
42A-ROP 42" OAH, Aluminum + Dual Receptacle Outlet Panel and Cover	PS Platinum Silver	SWTAB SiteSync Windows® Tablet	480[8] 480V	
42A-ROP-L 42" OAH, Aluminum + Dual Receptacle Outlet Panel and Locking Cover	TT Titanium	SWBRG SiteSync Wireless Bridge Node		
42A-2GEB 42" OAH, Aluminum + Integral Recessed 2 Gang Electrical Box	WH White			
42A-SG3 42" OAH, Aluminum + Speaker Grille Enclosure for 3" Ø speaker	RAL RAL Color			
	CC Custom Color*			
	* Consult factory			

[3]RECOMMISSIONED SITESYNC ORDERING INFORMATION: When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group information, and Operating schedules. For more detailed information please visit www.HubbellLighting.com/products/sitesync or contact Hubbell Lighting tech support at (800) 345-4928.

Examples:
PA7R/FITING/3/12L-Q20-3K7/42A/T1S/WP/UNV/LR

1 Adds .6 / 15mm to OAH (over all height).
2 CL and DL configurations shall be IK04
3 Only Available with 1 Type I or 5 Type V distributions only.
4 24'Ø typical coverage area, not Available with CH.
5 Specify group and zone at time of order. See www.hubbelllighting.com/sitesync for more details. Order at least one SiteSync interface accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node.
6 Dedicated input voltage, required for MW Motions sensing.
7 -20°C min starting temperature, 90+ minute run time, output equivalent to 12L-010-4K7
8 Adds +5 watts and 1" / 254mm to overall height.
9 SF for 120, 277 and 347 input voltage, DF for 208, 240 and 480 input voltage.

Microsoft, Encarta, MSN, and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Kim Lighting reserves the right to change specifications without notice.

KIM LIGHTING

PA7R
Pavilion™ Bollard kl_pa7r_spec.pdf

LUMINAIRE PERFORMANCE

LED #	Nominal Lumen Package	Nominal Wattage	Lens Options	Distribution	3000K Lumen	3000K BUG Rating B	U	G	3000K lm/w	4000K Lumen	4000K BUG Rating B	U	G	4000K lm/w	5000K Lumen	5000K BUG Rating B	U	G	5000K lm/w
12L	2,000	22	NU UO Optics	1	1044	0	0	0	48	1136	0	0	0	52	1164	0	0	0	54
				2	1199	0	0	0	55	1305	0	0	0	60	1336	0	0	0	62
				3	1128	0	0	1	52	1228	0	0	1	57	1257	0	0	1	58
				3HS	953	0	0	0	44	1037	0	0	0	48	1062	0	0	1	49
				4	1362	0	0	0	63	1482	0	0	1	68	1518	0	0	1	70
				5	1265	1	0	0	58	1377	1	0	0	63	1410	1	0	0	65
			CH Clear Horizontal Lens	1	1778	0	3	1	82	1935	0	3	1	89	1981	0	3	1	91
				2	1711	1	3	1	79	1862	1	3	1	86	1906	1	3	1	88
				3	1643	1	3	1	76	1788	1	3	1	82	1831	1	3	1	84
				3HS	1443	0	3	1	66	1570	0	3	1	72	1608	0	3	1	74
				4	1731	0	3	1	80	1884	0	3	1	87	1929	0	3	1	89
				5	1841	1	3	1	85	2003	1	3	1	92	2051	1	3	1	95
			CL Clear Vertical Lens	1	1852	0	4	1	85	2016	1	4	1	93	2064	1	4	1	95
				2	1984	1	3	1	91	2159	1	3	1	99	2211	1	3	1	102
				3	2062	1	3	1	95	2244	1	3	1	103	2298	1	3	1	106
				3HS	1665	0	3	1	77	1811	0	3	1	83	1855	0	3	1	85
				4	2055	0	3	1	95	2236	1	3	1	103	2290	1	3	1	106
				5	2109	1	3	1	97	2295	1	3	1	106	2350	1	3	1	108
			DL Diffused Vertical Lens	1	1639	1	3	2	76	1783	1	3	2	82	1826	1	3	2	84
				5	1721	1	3	2	79	1873	1	3	2	86	1918	1	3	2	88
			LV External Louvers	1	746	0	3	1	34	811	1	3	1	37	831	1	3	1	38
				2	814	1	3	1	37	885	1	3	1	41	907	1	3	1	42
				3	838	1	3	1	39	912	1	3	1	42	934	1	3	1	43
				3HS	605	0	3	1	28	658	0	3	1	30	674	0	3	1	31
				4	879	0	3	1	41	956	1	3	1	44	979	1	3	1	45
				5	888	1	3	1	41	966	1	3	1	45	989	1	3	1	46
			GC Grille with Clear Lens	1	1038	0	3	1	48	1130	0	3	1	52	1157	0	3	1	53
				2	1021	0	3	1	47	1111	1	3	1	51	1138	1	3	1	52
				3	1024	0	3	1	47	1114	1	3	1	51	1141	1	3	1	53
				3HS	854	0	3	1	39	930	0	3	1	43	952	0	3	1	44
				4	1109	0	3	1	51	1207	0	3	1	56	1236	0	3	1	57
				5	1037	1	3	1	48	1128	1	3	1	52	1155	1	3	1	53
			GD Grille with Diffused Lens		1036	0	3	1	48	1127	1	3	2	52	1154	1	3	2	53
					953	1	3	1	44	1037	1	3	1	48	1062	1	3	1	49

Kim Lighting reserves the right to change specifications without notice.

KIM LIGHTING

PA7R
Pavilion™ Bollard kl_pa7r_spec.pdf

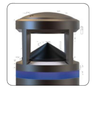
LUMINAIRE PERFORMANCE

Electrical Characteristics												Dimming				
Current	System Watts	Line Voltage		Amps AC						Min. Power Factor	Max THD (%)	Dimming Range	Source current out		Absolute voltage	
		VAC	Hz	120	208	240	277	347	480				Min	Max	Min	Max
350mA	14	120-480	50/60	0.18	0.11	0.09	0.08	0.06	0.05	>0.9	20	10% to 100%	0mA	1mA	0V	10V
530mA	22			0.12	0.07	0.06	0.05	0.04	0.03							

TM-21 LIFETIME CALCULATION

Operating Hours						
Ambient Temp.	0	25,000	TM-21-11 36,000	50,000	100,000	Calculated L_{70} (hours)
25°C / 77°F	100%	98%	97%	95%	90%	59khrs
40°C / 104°F	100%	98%	97%	95%	90%	

LUMINOUS ACCENT



The Luminous Accent option adds an additional 1" / 25.4mm to the overall fixture height and may be controlled via wired DMX RDM or Bluetooth wireless. The Luminous Accent shall be IK08.

HUBBELL LIGHTING RGBW REMOTE APP

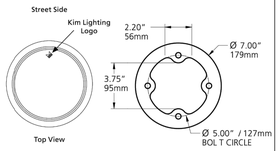
The Hubbell Lighting RGBW Remote application may be downloaded free of charge from the Apple App Store or Google Play.
- Color selection and adjustment.
- Camera function for color matching.
- Intensity slider for dimming/ramping up.
- Save and rename up to 10 presets.
- Group and rename fixtures.
- Fixture is password protected, refer to instructions to set unique password.

App Store · Google play

MOUNTING

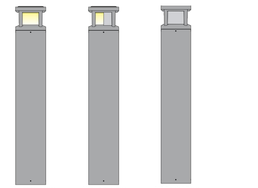
Aluminum Body

Once attached to base mounting plate, fixture may be rotated 20° in either direction and secured with set screws at base of the bollard body. KIM Lighting logo indicates 'street side' output.



SHIELDING

HS configurations feature factory installed 180° shield(s) that may also be installed in the field for any Optic configuration.



Kim Lighting reserves the right to change specifications without notice.

KIM LIGHTING

PA7R
Pavilion™ Bollard kl_pa7r_spec.pdf

SPECIFICATIONS

Housing:
- Castings shall be low copper aluminum alloy die-cast.
- Gaskets shall be molded silicone to prevent harmful ingress to the lamp and driver compartments.
- Optical system shall be IP66 rated.

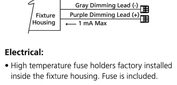
Shaft:
- Aluminum shaft(s) shall be .125" thick extruded aluminum 6061 alloy.
- Concrete shaft(s) shall conform to current specifications for "Portland Cement." ASTM C150, Type I or II. Aggregates shall meet current requirements of "Specifications for Concrete Aggregates," ASTM C33. Water shall be clean and free from deleterious amounts of silt, oil, acids, alkalies or organic materials. Wire for reinforcement shall conform to ASTM A185. Steel for lugs and plates shall con!orm to ASTM A36, or A283 grade D.
- Concrete shaft(s) shall be medium sand-blasted with anti-graffiti sealer and material color shall be integral to the concrete mix.
- Concrete shaft(s) shall be cured to allow for completion of the hydration process, and result in a 28 day compressive strength of not less than 4,500 psi.
- Concrete shaft(s) shall be cast from fiberglass molds used to insure uniform parts. Mold parting lines maybe slightly visible in finished parts.

Optics:
- UO configurations shall have an optically clear flat tempered glass lens, all other configurations shall have either an optically clear or high transmission diffused acrylic lens.
- Maximum surge current shall be 20KA and shall fail open at end of life to prevent harm to the electrical components from uncontrolled or excess incoming power
- Driver shall be rated for -40°C environment

Bluetooth:
- The Integral module shall enable the adjustment of the Luminous Accent to dim or change color to the desired setting when paired with Hubbell Lighting RGBW Remote App via cellular/tablet device.
- The integral module shall be compatible with Bluetood Low Energy (BLE) or Bluetooth Smart mobile devices operating on iOS8 or Android Gingerbread operating systems or newer.

DMX:
- 6 wires: Red (DMX+), Yellow (DMX-), Brown (DMX Ground), Black (Voltage), White (common), and Green (Ground)
- Single DMX universe with six slots/addresses of virtual control which are pre-programmed at the factory:
  - DMX slot/address 1 = red
  - DMX slot/address 2 = blue
  - DMX slot/address 3 = green
  - DMX slot/address 4 = white
  - DMX slot/address 5 = X tilt, a 127 means do nothing, a value between 1-63 means left, a value between 192-254 means right
  - DMX slot/address 6 = Y tilt, a 127 means do nothing, a value between 1-63 means up, a value between 192-254 means down
- Fully DMX RDM compatable.

Controls
- Standard fixtures dimming range shall be from 10% to 100% and be compatible with 0-10V, user-defined, control devices. (Wiring illustration)
- Optional motion sensor shall be capable of detecting motion 360° around the bollard. When no motion is detected for the specified time, the sensor wattage to factory preset level, reducing the light level accordingly. When motion is detected by the sensor, the bollard shall return to full wattage and full light output. Please contact KIM Lighting if project requirements vary from standard configuration.
- Pavilion may be specified with SiteSync™ wireless control system for reduction in energy and maintenance costs while optimizing light quality 24/7. For more details, see ordering information or visit: www.hubbelllighting.com/sitesync



Electrical:
- High temperature fuse holders factory installed inside the fixture housing. Fuse is included.
- Battery Backup shall have an operating range of -20°C to 50°C with a typical recharge time of 32 hours.

Installation
- Aluminum shaft configurations shall have four 3/8" x 10" x 2" zinc plated L-hook anchor bolts shall to be installed with an included template. Nuts and washers shall be provided to level and secure the mounting plate to the anchor bolts.
- Aluminum shaft configurations shall have a mounting plate shall be able to be rotated 20° in either direction during installation for aiming adjustment.
- Concrete shaft configurations shall have four steel mounting tabs for installation on four 1/2" x 10" + 2" zinc electroplated L-hook anchor bolts. Each anchor bolt is supplied with two nuts, two washers, and a rigid pressed board template.
- Concrete shaft configurations shall be palletized with adequate hold-downs to prevent load movement in transit.

Finish:
- Fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powder coat.
- Standard colors include (BL) Black, (DB) Dark Bronze, (GT) Graphite, (PS) Platinum Silver, (LG) Light Gray, (TT) Titanium, (WH) White, and (CC) Custom Color (Include RAL#).

Certifications and Listings:
- UL 1598 Standard for wet locations for Luminaires.
- UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products.
- CSA C22.2#250.0 Luminaires.
- RoHS compliant.
- IP66 rated.
- IDA approved, 3000K and warmer CCTs only.

Caution:
- Fixtures must be grounded in accordance with national, state and/or local electrical codes, Failure to do so may result in serious personal injury.

Warranty:
- For full warranty see http://www.hubbelllighting.com/resources/warranty

Bluetooth® DMX

ANDROID APP ON Google play · Download on the App Store

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Kim Lighting is under license. Other trademarks and trade names are those of their respective owners. Apple, the Apple logo, iPad, iPhone, and iPod Touch are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc. Google Play is a trademark of Google Inc.

Kim Lighting reserves the right to change specifications without notice.

BG BUILDINGWORKS systems fulfilled
ALBUQUERQUE | AVON | DENVER | FORT COLLINS
505.271.3620
www.bgbuildingworks.com

COLORADO LICENSED PROFESSIONAL ENGINEER TIMOTHY MARTIN MCCARTHY 47978 2/20/19

HAYMEADOW FILING 1
ACCESS & INFRASTRUCTURE PLANS

Current Issue:
100% Construction Documents

Issued:

FOR AGENCY REVIEW	09.14.18
RESPONSE TOWN COMMENTS	02.20.19

Sheet Title:
ELECTRICAL LIGHTING FIXTURE CUTSHEETS

Date:	02/20/19
Designed:	TMM
Reviewed:	TMM
Project No:	10011.00

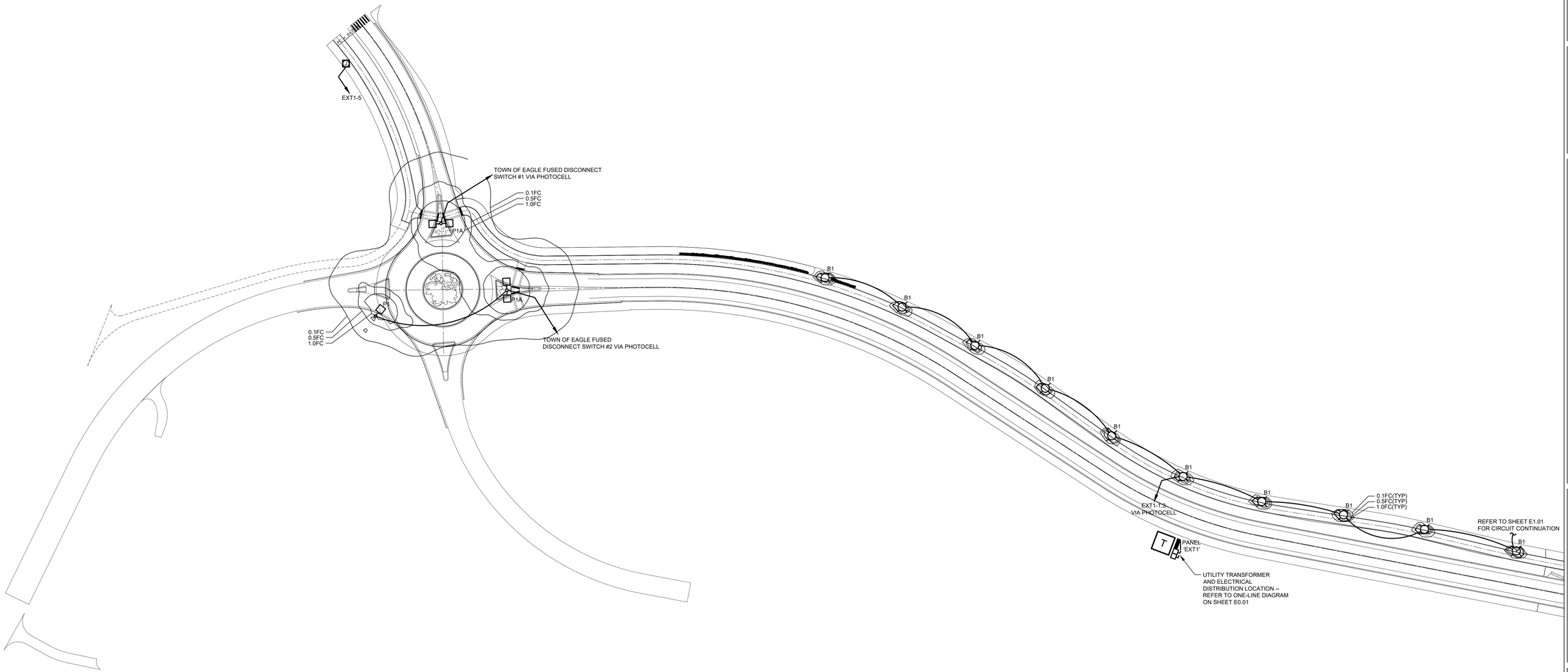
Sheet No:
E0.03

Scale: As Shown

02.21.19 3:32:39 PM S:\BGPROJECTS\10011.00 HAYMEADOW PHASE 1A ROADS & PATHS\DRAWINGS\10011.00E0.03.DWG

NOTES:

1. CIRCUITING LINES ARE SHOWN TO DEPICT CIRCUIT/FIXTURE GROUPINGS ONLY, NOT INTENDED CONDUIT ROUTING. REFER TO CIVIL DRAWINGS FOR CONDUIT ROUTING.
2. FOR ALL EXTERIOR CONDUCTOR SPLICES IN JUNCTION BOXES, PULL BOXES, OR IN LIGHTING FIXTURE POLES, PROVIDE WEATHERPROOF SPLICE KIT OR WATERPROOF WIRENUTS. MAKE CONNECTIONS OR SPLICES TO ENSURE THAT NO METAL CONDUCTOR IS EXPOSED TO CORROSION.



1 ELECTRICAL SITE PLAN WEST
SCALE: 1" = 60'-0"

BG BUILDINGWORKS systems fulfilled
ALBUQUERQUE | AVON | DENVER | FORT COLLINS
505.275.3620
www.bgbuildingworks.com

COLORADO LICENSED
TIMOTHY MARTIN MCCABE
47978
PROFESSIONAL ENGINEER
2/20/19

HAYMEADOW FILING 1
ACCESS & INFRASTRUCTURE PLANS

Current Issue:
100% Construction Documents

Issued:

FOR AGENCY REVIEW	09.14.18
RESPONSE TOWN COMMENTS	02.20.19

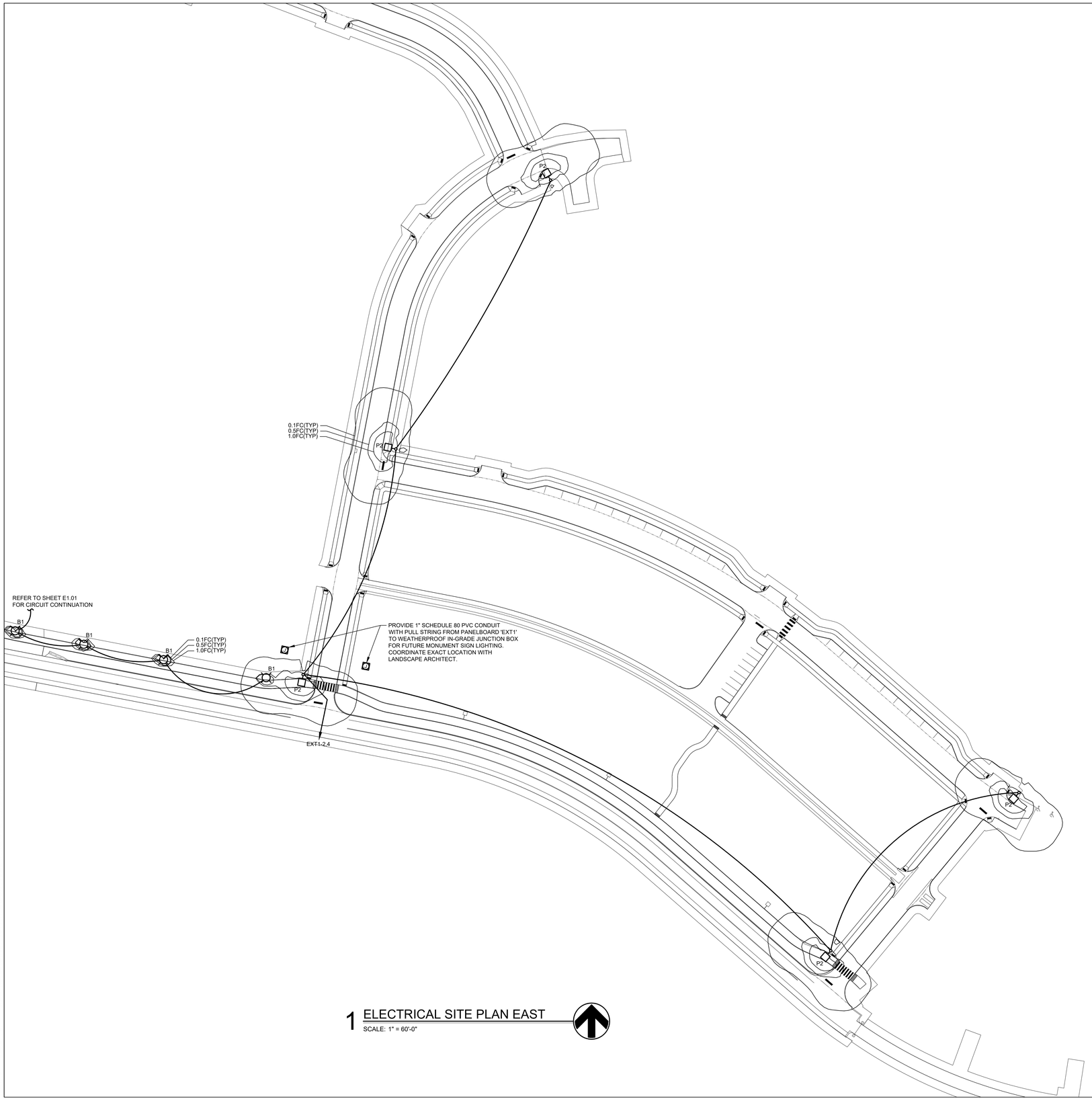
Sheet Title:
ELECTRICAL SITE PLAN WEST

Date:	02/20/19
Designed:	TMM
Reviewed:	TMM
Project No:	10011.00

Sheet No:
E1.01

Scale: As Shown

02.21.19 3:32:53 PM S:\BGPROJECTS\10011.00 HAYMEADOW PHASE 1A ROADS & PATHS\DRAWINGS\10011.00E1.01.DWG



1 ELECTRICAL SITE PLAN EAST

SCALE: 1" = 60'-0"

NOTES:

1. CIRCUITING LINES ARE SHOWN TO DEPICT CIRCUIT/FIXTURE GROUPINGS ONLY, NOT INTENDED CONDUIT ROUTING. REFER TO CIVIL DRAWINGS FOR CONDUIT ROUTING.
2. FOR ALL EXTERIOR CONDUCTOR SPLICES IN JUNCTION BOXES, PULL BOXES, OR IN LIGHTING FIXTURE POLES, PROVIDE WEATHERPROOF SPLICE KIT OR WATERPROOF WIRENUTS. MAKE CONNECTIONS OR SPLICES TO ENSURE THAT NO METAL CONDUCTOR IS EXPOSED TO CORROSION.

BG BUILDINGWORKS
systems fulfilled
ALBUQUERQUE | AVON | DENVER | FORT COLLINS
505.270.3620
www.bgbuildingworks.com

COLORADO LICENSED
TIMOTHY MARTIN MCCARTHY
47978
PROFESSIONAL ENGINEER
2/20/19

HAYMEADOW FILING 1
ACCESS & INFRASTRUCTURE PLANS

Current Issue:
100% Construction Documents

Issued:

FOR AGENCY REVIEW	09.14.18
RESPONSE TOWN COMMENTS	02.20.19

Sheet Title:
ELECTRICAL SITE PLAN EAST

Date:	02/20/19
Designed:	TMM
Reviewed:	TMM
Project No:	10011.00

Sheet No:
E1.02

Scale: As Shown

© BUILDINGWORKS

02.21.19 3:33:07 PM S:\BGPROJECTS\10011.00 HAYMEADOW PHASE 1A ROADS & PATHS\DRAWINGS\10011.00E1.02.DWG