



TRAILS AT ASPEN RIDGE FILING NO.1

EL PASO COUNTY, CO

ROADWAY & STORM IMPROVEMENT PLANS

JULY, 2019

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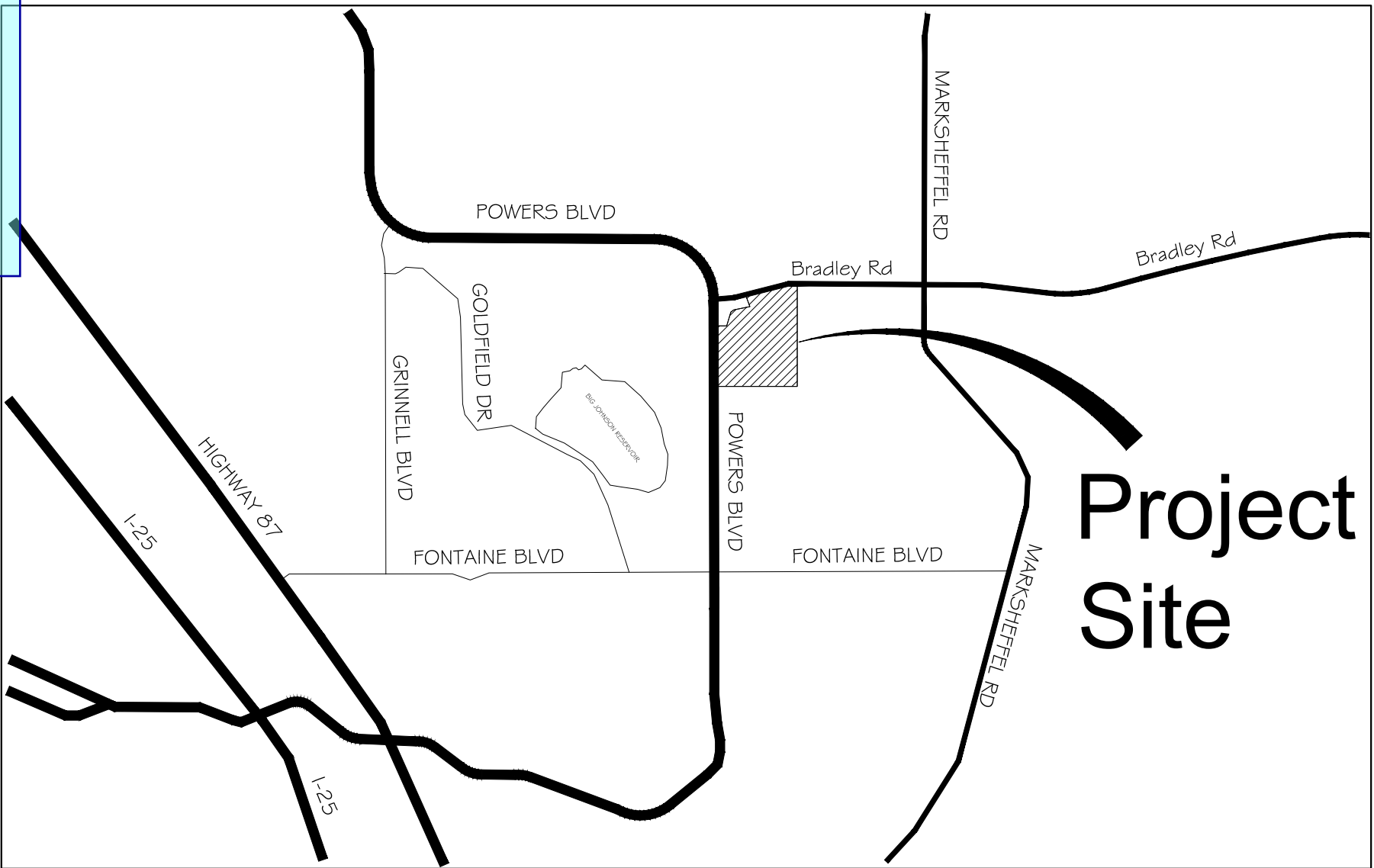
Submit grading and erosion control plan either as part of this construction drawings or as a standalone set.

The submitted GEC was for the pre-development (early) grading which is not applicable for filing 1 specific construction.

Submit lighting construction plans for the roundabout.

Submit sanitary and water construction plans.

The above plans can be submitted as standalone documents or as part of this construction plan set.



VICINITY MAP
N.T.S.

ENGINEER'S STATEMENT:

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID DETAILED PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERION ESTABLISHED BY THE CITY FOR DETAILED DRAINAGE PLANS AND SPECIFICATIONS, AND SAID DETAILED PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH THE MASTER PLAN OF THE DRAINAGE BASIN. SAID DETAILED DRAINAGE PLANS AND SPECIFICATIONS MEET THE PURPOSE FOR WHICH THE PARTICULAR DRAINAGE FACILITY(S) IS DESIGNED. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THE DETAILED DRAINAGE PLANS AND SPECIFICATIONS.

By: _____ Date: _____

NICOLE SCHANEL, PE #52434
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.

EL PASO COUNTY:

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

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

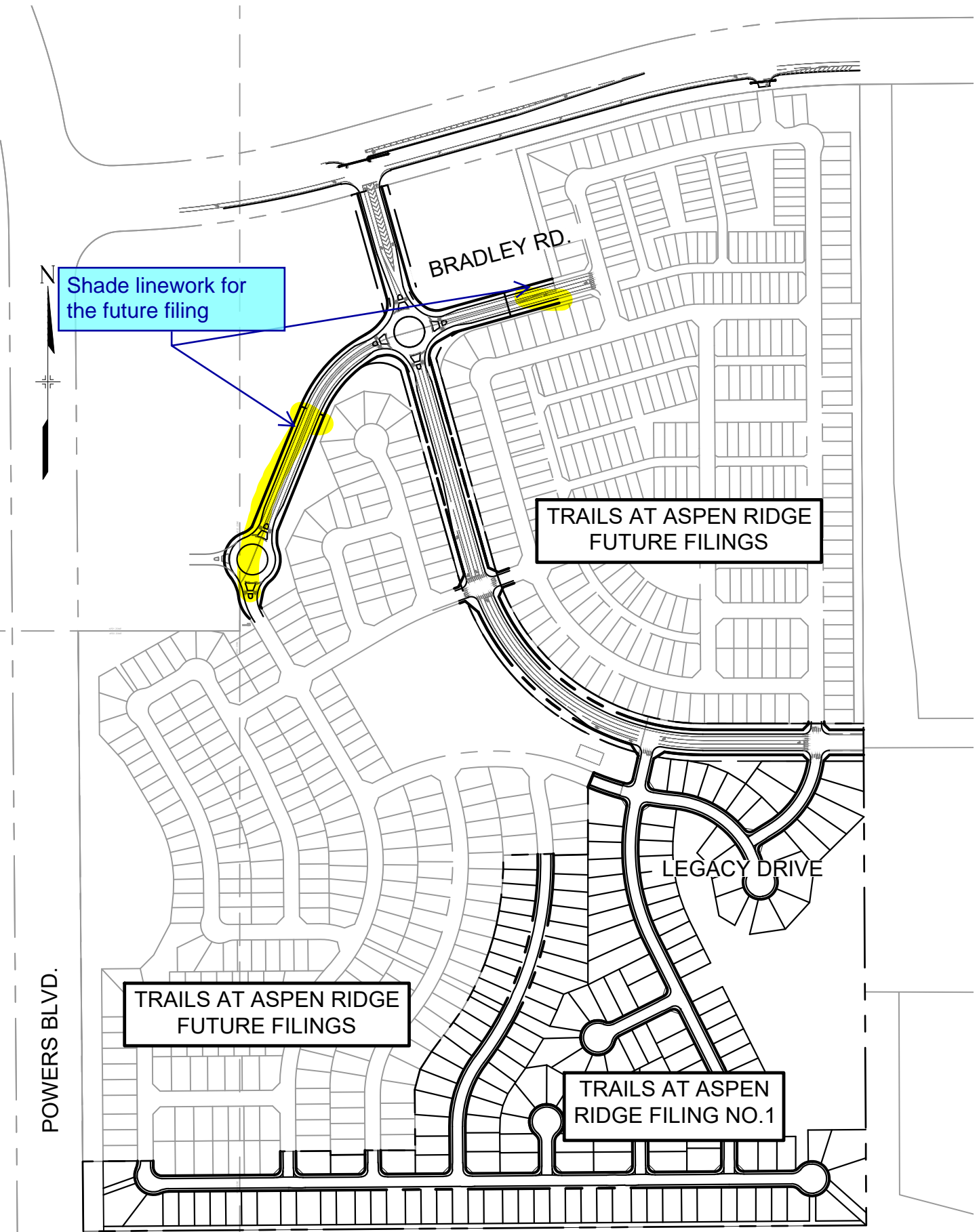
JENNIFER IRVINE, P.E. DATE _____
COUNTY ENGINEER / ECM ADMINISTRATOR

Replace with:
Owner/Developer's Statement:

I, the owner/developer have read and will comply with the requirements of the grading and erosion control plan and all of the requirements specified in these detailed plans and specifications.

[Name, Title] _____ Date _____
[Business Name]
[Address]

FYI: Items within [Brackets] must be replaced with the actual information.



SITE MAP
N.T.S.

Not a standard County Signature Block.

Is this required by the City of Colorado Springs on the construction plans?

STATEMENT:

EL PASO COUNTY RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN. THE CITY HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY. RESUBMITTAL REQUIRED IF CONSTRUCTION HAS NOT COMMENCED WITHIN 180 DAYS AFTER REVIEW DATE.

SIGNAGE AND STRIPING REVIEW:

TRAFFIC ENGINEERING _____ DATE _____

OWNER/DEVELOPER

NAME _____ DATE _____
COLA, LLC

BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4" AULM. CAP PLS 10377)

PREPARED BY:



SEAL

PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

TITLE SHEET

DESIGNED BY:	NMS	SCALE	DATE ISSUED:	JULY, 2019	DRAWING No.
DRAWN BY:	TJC	HORIZ	N.A.		
CHECKED BY:	NMS	VERT.	N.A.	SHEET	1 OF 71

TS01

GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL, REVISED 12-13-2016 AND CDOT STANDARD SPECIFICATIONS, LATEST REVISION.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH APPLICABLE STANDARDS AND REGULATIONS AS SET FORTH BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.).
3. NO FIELD CHANGES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE FIELD ENGINEER.
4. SUBMITTALS SHALL BE MADE FOR ALL MATERIALS TO BE INCORPORATED INTO THE PROJECT.
5. UTILITY LINES AS SHOWN ON THE PLAN SHEETS ARE PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION AND PROTECTION OF ALL UTILITIES IN PLACE.
6. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 TWO BUSINESS DAYS IN ADVANCE OF ANY EXCAVATION OR GRADING.
7. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL UTILITY AND STRUCTURES AFFECTED BY THE WORK AND ANY DAMAGE SHALL BE REPAIRED AND RESTORED TO THE SATISFACTION OF THE RESPECTIVE UTILITY OWNER. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UTILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE ALL UTILITY RELOCATIONS AS NECESSARY. THE COUNTY ENGINEERING INSPECTIONS, UTILITY DEPARTMENTS AND UTILITY OWNERS SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WHERE THESE UTILITIES MAY BE AFFECTED.
8. IN SOME OF THE PROPOSED AREAS OF CONSTRUCTION EXISTING UNDERGROUND TELEPHONE, FIBER AND CABLE TELEVISION FACILITIES MAY BE LOCATED IN CLOSE PROXIMITY TO THE WORK. THE CONTRACTOR MAY, IF NECESSARY, TEMPORARILY DISPLACE THE CABLES DURING CONSTRUCTION AND REINSTALL THEM IN ACCORDANCE WITH THE APPROPRIATE TELEPHONE, FIBER OR CABLE COMPANY'S GUIDELINES. COORDINATION WITH BOTH THE TELEPHONE AND CABLE TELEVISION COMPANY IS REQUIRED TO BE DONE BY THE CONTRACTOR.
9. THE CONTRACTOR SHALL OBTAIN AN APPROVED TRAFFIC CONTROL PLAN PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
10. THE PHYSICAL FEATURES WITHIN THE LIMITS OF THE PROJECT HAVE BEEN SHOWN BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE FEATURES SHOWN. THE CONTRACTOR SHALL REVIEW AND VERIFY EXISTING PHYSICAL FEATURES AND ELEVATIONS THEMSELVES OF THE CONDITIONS TO BE ENCOUNTERED DURING THE CONSTRUCTION.
11. THE CONTRACTOR SHALL LIMIT ALL WORK AND STORAGE AREAS TO THE PUBLIC RIGHT-OF-WAYS AND EASEMENTS. USE OF ANY PRIVATE AREAS FOR THIS PROJECT BY THE CONTRACTOR MUST BE APPROVED IN WRITING BY THE PROPERTY OWNER WITH A COPY OF THIS APPROVAL PROVIDED TO THE FIELD ENGINEER PRIOR TO USAGE.
12. ALL CONSTRUCTION IS TO INCLUDE COMPACTION AND FINISH GRADING IN THE UNIT PRICE RELATED WORK ITEM.
13. ALL WORK SHALL BE DONE TO THE LINES, GRADES, SECTIONS, AND ELEVATIONS SHOWN ON THE PLANS UNLESS OTHERWISE NOTED OR APPROVED BY THE FIELD ENGINES.
14. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY EL PASO COUNTY AND THE FIELD ENGINEER.
15. THE FIELD ENGINEER SHALL BE NOTIFIED WITHIN 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
16. PAYMENT, DIMENSIONS AND RADII ARE SHOWN TO THE LIP OF CURB UNLESS OTHERWISE NOTED.
17. THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AND/OR TOES OF SLOPE AS SHOWN ON THE PLANS. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITIONS BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.
18. THE CONTRACTOR SHALL CLOSELY MONITOR ACCESS FOR HEAVY CONSTRUCTION EQUIPMENT THROUGH THE PROJECT AREAS.
19. WHERE PAVEMENT IS TO ABUT EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE REMOVED TO A NEAT VERTICAL LINE BY FULL DEPTH SAWING. SAWING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCIDENTAL TO "REMOVAL OF ASPHALT PAVEMENT". THE CONTRACTOR WILL BE REQUIRED TO PAINT THE EDGE OF CUT PAVEMENT WITH DILUTED EMULSIFIED ASPHALT (SLOW SETTING) PRIOR TO PAVING OPERATIONS. VERTICAL EDGES SHALL NOT REMAIN OVERNIGHT. DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF ONE PART EMULSIFIED ASPHALT AND ONE PART WATER.
20. WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. LOCATIONS SHALL BE AS ORDERED. THE COST OF WATER SHALL BE INCIDENTAL TO OTHER BID ITEMS.
21. THE PHYSICAL FEATURES REQUIRING REMOVAL OR OBLITERATION WITHIN THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF OFF-SITE.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING ANY MONUMENT, RANGE POINTS, TIES, BENCHMARKS AND/OR SURVEY CONTROL POINTS WHICH MAY BE DISTURBED OR DESTROYED BY CONSTRUCTION. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENT BY A REGISTERED PROFESSIONAL LAND SURVEYOR AUTHORIZED TO PRACTICE LAND SURVEYING IN THE STATE OF COLORADO.
23. THE CONTRACTOR SHALL HAVE A COPY OF ALL APPLICABLE STANDARDS AND PLANS ON SITE FOR THE DURATION OF THE PROJECT.
24. THE CONTRACTOR SHALL NOT STOCKPILE MATERIAL WITHIN 10 FEET OF THE EDGE OF TRAVELED WAY.
25. ANY LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULL WIDTH BEFORE SUCCEEDING LAYER IS PLACED.
26. BEFORE PLACEMENT OF THE TACK COAT, THE CONTRACTOR SHALL CLEAN THE PRESENT ROADWAY AS DIRECTED. CLEANING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE PROJECT.

GENERAL NOTES con't.:

27. A TACK COAT OF EMULSIFIED ASPHALT (SLOW SETTING) IS TO BE APPLIED BETWEEN PAVEMENT COURSES TO IMPROVE BOND. DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF 1 PART EMULSIFIED ASPHALT AND 1 PART WATER.
28. THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN TEMPORARY TRAFFIC CONTROL DEVICES NECESSARY THROUGHOUT THE DURATION OF CONSTRUCTION. THE CONTRACTOR SHALL CONTACT TRAFFIC ENGINEERING FORTY- EIGHT (48) HOURS IN ADVANCE FOR ANY REQUIRED MODIFICATION OF TRAFFIC SIGNALS WITHIN CONSTRUCTION AREAS AS NECESSARY TO MAINTAIN SAFE OPERATIONS.
29. ANY DISCREPANCY WITHIN THESE PLANS SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND WORK SHALL STOP UNTIL THE DISCREPANCY IS DISCUSSED AND DECISIONS/AGREEMENTS HAVE BEEN MADE.

EARTHWORK:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LEGAL DISPOSAL OF ANY EXCESS SOIL, DEBRIS AND WASTE MATERIAL OFF OF THE PROJECT SITE.
2. ANY MATERIAL NOT SUITABLE FOR BACKFILL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF, BY AND AT THE EXPENSE OF THE CONTRACTOR.
3. ANY SOIL LYING BELOW THE SUBGRADE ELEVATION WHICH IS DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE REMOVED AND REPLACED WITH STRUCTURAL FILL IN ACCORDANCE WITH THE SPECIFICATION REQUIREMENTS.

BENCHMARK AND SURVEY CONTROL:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION STAKING OF BOTH HORIZONTAL AND VERTICAL LAYOUT ON THIS PROJECT. COORDINATES ARE REFERENCED IN THE COORDINATE LIST SHOWN ON THESE PLANS. THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT ENGINEER FOR INTERPRETATION AND INFORMATION IN STAKING OF THE PROJECT FOR CONSTRUCTION.
2. PRIOR TO PROJECT COMPLETION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY PROPERTY MONUMENTATION DISTURBED OR REMOVED BY CONSTRUCTION OPERATIONS. THIS WORK SHALL BE PERFORMED BY A LAND SURVEYOR LICENSED IN THE STATE OF COLORADO. PROPERTY CORNERS WHICH FALL WITHIN NEW CONCRETE FLATWORK SHALL BE DURABLE AND SET FLUSH. THIS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

TRAFFIC GENERAL NOTES:

1. THE CONTRACTOR SHALL PREPARE A DETAILED TRAFFIC CONTROL PLAN, SUBMIT TO COUNTY TRAFFIC ENGINEERING FOR APPROVAL, AND OBTAIN APPROPRIATE PERMITS IN ACCORDANCE WITH THE M.U.T.C.D.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL, INCLUDING PEDESTRIAN DETOURS. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, AND MAINTAINING THE TEMPORARY TRAFFIC CONTROL DEVICES THROUGHOUT THE DURATION OF THE PROJECT.
3. APPROVAL OF THESE PLANS BY THE COUNTY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
4. THE APPROVAL OF THESE PLANS OR ISSUANCE OF A PERMIT BY EL PASO COUNTY DOES NOT AUTHORIZE THE OWNER OR CONTRACTOR TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES.
5. ALL TRAFFIC SIGNS, PAVEMENT MARKINGS, AND TRAFFIC SIGNALS SHALL MEET OR EXCEED M.U.T.C.D. STANDARDS.
6. THE CONTRACTOR SHALL NOT REMOVE ANY EXISTING SIGNS, PAVEMENT MARKINGS, OR TRAFFIC SIGNALS DURING THE PROJECT WITHOUT SIGNED AUTHORIZATION OF THE EL PASO COUNTY INSPECTOR ASSIGNED TO THE PROJECT.

GENERAL CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO BIDDING PROJECT. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE EXCEPT AS NOTED.
2. ANY CONTRACTOR-CAUSED DAMAGE TO UTILITY AND/OR SERVICE LINES SHOWN OR NOT SHOWN ON THE PLANS, SHALL BE REPAIRED OR REPLACED AT NO COST TO EL PASO COUNTY AND SHALL BE ACCOMPLISHED BY THE CONTRACTOR, SUBCONTRACTOR OR AS APPROVED BY THE COUNTY ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO COMMENCING WORK IN THE PROJECT AREA. LIKEWISE, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK AND THAT OF THE INVOLVED UTILITIES IN THE PROJECT AREA.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL LABOR, MATERIAL, EQUIPMENT AND INCIDENTAL ITEMS NEEDED TO PROVIDE ADEQUATE CONSTRUCTION SIGNING, BARRICADES, TRAFFIC CONTROL DEVICES AND OTHER RELATED ITEMS FOR THE PROJECT AREAS, DURING THE CONSTRUCTION PERIOD. THIS WORK SHALL BE INCLUDED IN THE CONSTRUCTION PHASING/MAINTENANCE OF TRAFFIC PAY ITEM.
4. THE CONTRACTOR SHALL CAREFULLY REMOVE, STORE AND REINSTALL ALL COUNTY-OWNED SIGNS WHOSE REMOVAL IS REQUIRED BY THIS CONSTRUCTION WORK IN THE PROJECT AREAS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR THE COUNTY TO INSPECT ALL SIGNS SCHEDULED FOR REMOVAL PRIOR TO THEIR REMOVAL. ONCE SAID SIGNS HAVE BEEN REMOVED, IT WILL BE ASSUMED THAT THEY WERE IN GOOD CONDITION AT THE TIME OF REMOVAL. ANY SIGNS DAMAGED OR LOST BY THE CONTRACTOR SHALL BE REPLACED AT NO COST TO THE COUNTY. MATERIALS SHALL BE APPROVED BY THE PROJECT ENGINEER. ALL POST-MOUNTED SIGNS SHALL BE RESET AT THE PROPER HEIGHT AND LOCATION.
5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO THE START OF WORK. THIS WORK IS TO BE CONSIDERED AN INCIDENTAL ITEM AND THE COST OF THIS ITEM IS TO BE INCLUDED IN OTHER PAY ITEMS.

GENERAL CONSTRUCTION NOTES con't.:

6. ANY SURPLUS EXCAVATION TO INCLUDE BUT NOT LIMITED TO THE REMOVAL OF LANDSCAPING FOR SIDEWALK INSTALLATION SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND DISPOSAL SHALL BE THE CONTRACTOR'S RESPONSIBILITY AT NO ADDITIONAL COST.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURVEYING AND CONSTRUCTION STAKING FOR THE PROJECT. ALL GRADING AND SURFACING SHALL BE IN ACCORDANCE WITH THE PLAN SHEETS AND THE CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS.
8. THE CONTRACTOR SHALL REMOVE AND STOCKPILE ALL SALVAGED TOPSOIL TO BE USED LATER AS BACKFILL BEHIND CURBS AND DRIVES OR IN THE RESTORATION OF DISTURBED AREAS. THIS WORK IS TO BE CONSIDERED AN INCIDENTAL ITEM AND THE COST OF THIS ITEM IS TO BE INCLUDED IN OTHER PAY ITEMS.
9. THE CONTRACTOR SHALL LEVEL ALL DISTURBED AREAS WITH TOPSOIL AND HAND-RAKE TO A UNIFORM APPEARANCE. THE AREA SHALL BE SEEDED WITH PROTECTIVE STRAW MAT COVER DURING WINTER MONTHS OR SODDED ALL OTHER TIMES. THIS WORK IS TO BE CONSIDERED AN INCIDENTAL ITEM.
10. CAUTION: FOR UNDERGROUND UTILITY LOCATIONS, CONTACT 1-800-922-1967 PRIOR TO EXCAVATION. ALL COSTS ASSOCIATED WITH THE LOCATION AND VERIFICATION OF EXISTING UTILITIES SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

El Paso County

SYMBOLS:

- PROPOSED CENTERLINE
- EXISTING FENCE
- PROPOSED FENCE
- EXISTING PAVED ROAD
- EXISTING UNDERGROUND UTILITY
- PROPOSED UNDERGROUND UTILITY
- DRAINAGE
- RIGHT OF WAY
- EASEMENT
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- EXISTING CONTOUR
- PROPOSED CONTOUR
- ENERGY GRADE LINE
- HYDRAULIC GRADE LINE
- SLOPE or DRAINAGE FLOW
- LIMITS OF CONSTRUCTION
- EXISTING MANHOLE
- PROPOSED MANHOLE
- EXISTING POWER POLE
- EXISTING POWER POLE W/ GUY WIRE
- THRUST BLOCK
- FIRE HYDRANT
- EXISTING WATER VALVE
- PROPOSED WATER VALVE
- WATER FITTINGS
- WATER METER
- EXISTING STORM INLET
- PROPOSED STORM DRAIN/INLET
- SANITARY SEWER SERVICE
- PLUG PIPE
- PROPOSED SIGN
- EXISTING SIGN
- DECIDUOUS TREE
- CONIFEROUS TREE
- EXISTING LIGHT STANDARD

El Paso County
Department of Public
Works

2.0%

E

29.5

24.0

SHEET No. 2

ABBREVIATIONS con't.:

R or RAD	RADIUS
RC	REVERSE CROWN
RCP	REINFORCED CONCRETE PIPE
RED	REDUCER
REF	REFERENCE
REINF	REINFORCING
REQ	REQUIRED
REV	REVISION
ROW	RIGHT-OF-WAY
RT	RIGHT
SCH	SCHEDULE
SD	STORM SEWER
SQ	SQUARE
ST	STREET
STA	STATION
STD	STANDARD
STL	STEEL
SS or SAN	SANITARY SEWER
SW or S/W	SIDEWALK
TAN	TANGENT
TB	THRUST BLOCK
TBC	TOP BACK OF CURB
TFC	TOP FACE OF CURB
THD	THREADED
THK or THICK	THICKNESS
TYP	TYPICAL
UG	UNDERGROUND
UTIL	UTILITY
VC	VERTICAL CURVE
VERT	VERTICAL
W	WIDTH
W/	WITH

Include the El Paso County standard construction drawing notes, signing and striping notes, and Grading and Erosion Control Plan notes. (Notes attached below)

GEC Notes

Construction Drawings Notes

Signing and Striping Notes

MATERIALS LEGEND

	AGGREGATE BASE COURSE
	CONCRETE
	COMPACTED SUBGRADE
	BITUMINOUS PAVEMENT (ASPHALT)

REFERENCE DRAWINGS

No.	DATE	DESCRIPTION	BY		
REVISIONS					
COMPUTER FILE MANAGEMENT					
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\GN01-Bradley Road.dwg					
CTB FILE: ----					
PLOT DATE: July 2, 2019 1:14:41 PM					
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.					

SHEET KEY

BENCHMARK

COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX. LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING

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PREPARED BY:

Matrix DESIGN GROUP

SEAL

PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

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PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

BRADLEY ROAD & LEGACY DRIVE
ROADWAY GENERAL NOTES

DESIGNED BY: NMS	SCALE	DATE ISSUED: JULY, 2019	DRAWING No. GN01
CHECKED BY: NMS	HORIZ. N/A VERT. N/A	SHEET 2 OF 71	

Provide a typical cross section for the local road.
Ramp cubs used with the local road shall be the EPC Optional Type C

Revise to 8' paved shoulder per ECM
criteria for rural minor arterial.

Provide the 6' shoulder. ROW will need to be wider to accommodate the roadway cross-section

Replace "Varies" with the min - max range.
Typical for all cross sections.

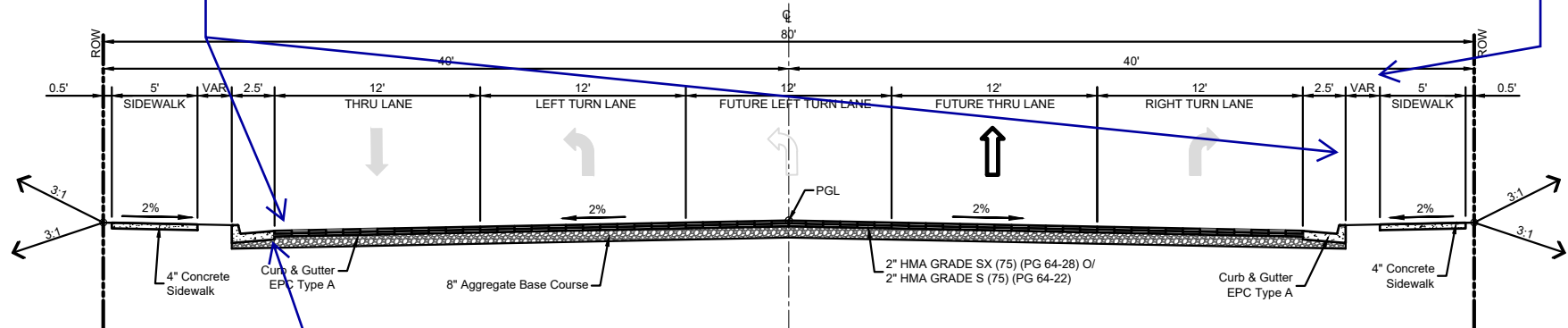
adjust C & G leader

Add note that what's shown is the minimum pavement section. The required pavement section will be per the pavement design report.

Provide shoulder to continue through to the above typical section. See striping plan

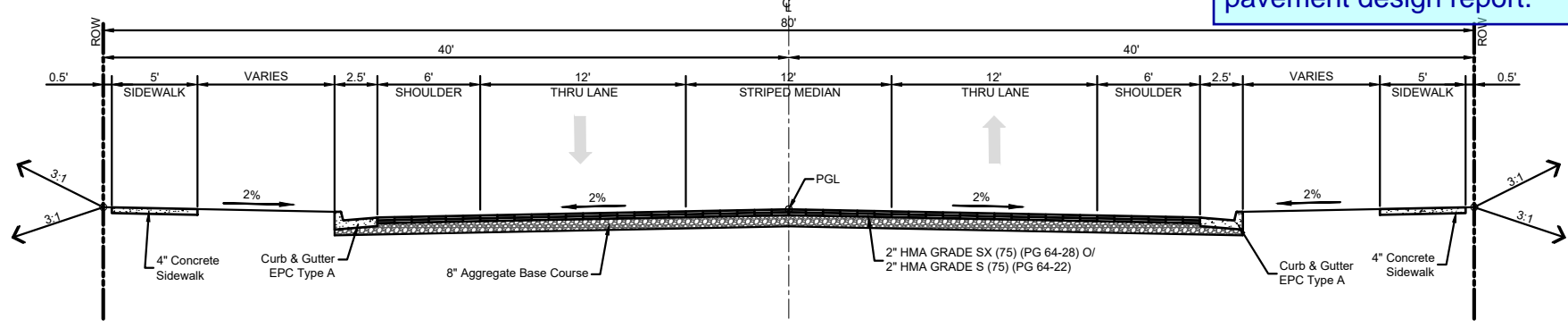
Recommend showing the Tract where sidewalk meanders into.

Provide typical section for front side drive. Per the TIS front side is to be urban non-residential collector



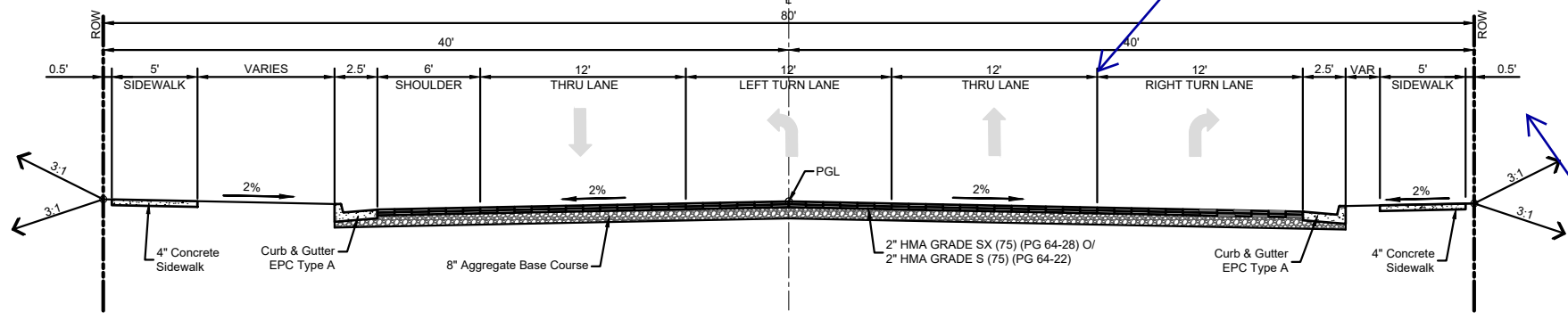
TYPICAL SECTION
LEGACY DRIVE
STA. 3+12.49 to STA. 5+00.76
NOT TO SCALE

NOTE:
STA. 3+12.49 TO STA. 5+00.76 TRANSITION TO ROUNDABOUT.
STA. 5+00.76 TO STA. 5+15.38 SEE ROUNDABOUT LAYOUT PLAN.



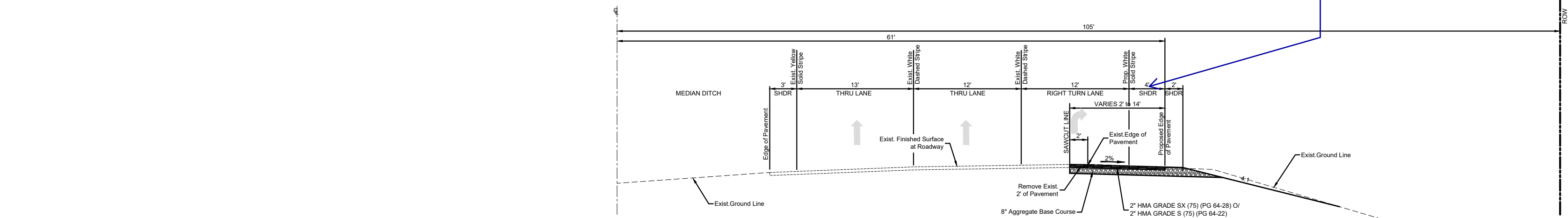
TYPICAL SECTION
LEGACY DRIVE
STA. 9+63.29 to STA. 12+62.10
STA. 16+63.83 to STA. 20+50.35
STA. 24+09.88 to STA. 28+56.54
NOT TO SCALE

NOTE:
STA. 9+63.29 TO STA. 12+62.10 TRANSITION FROM ROUNDABOUT.
STA. 12+62.10 TO STA. 14+30.70 LEFT TURN LANE TRANSITION.
STA. 14+30.70 TO STA. 16+63.83 LEFT TURN LANE TRANSITION.
STA. 16+63.83 TO STA. 20+50.35 LEFT TURN LANE TRANSITION.
STA. 20+50.35 TO STA. 24+09.88 LEFT TURN LANE TRANSITION.

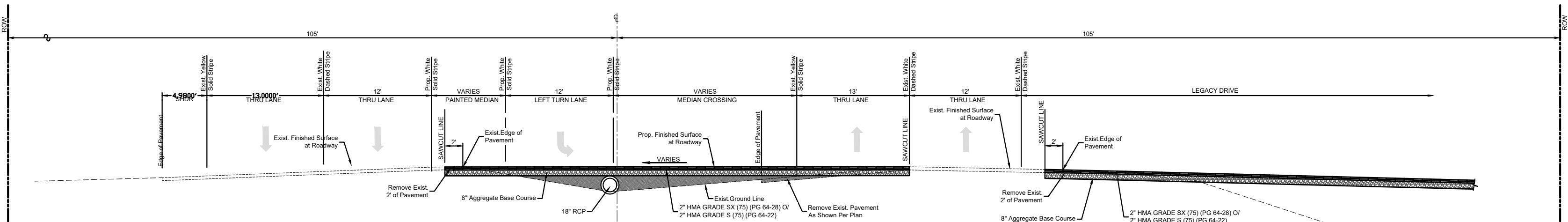


TYPICAL SECTION
LEGACY DRIVE
STA. 14+30.70 to STA. 15+73.65
STA. 21+91.67 to STA. 23+31.77
NOT TO SCALE

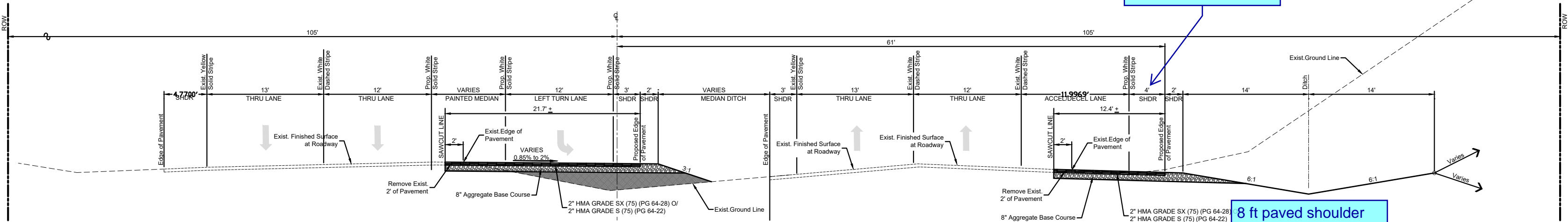
NOTE:
STA. 14+30.70 TO STA. 15+73.65 TRANSITION FROM ROUNDABOUT.
STA. 15+73.65 TO STA. 16+63.83 MOORE MEADOW STREET INTERSECTION.
STA. 16+63.83 TO STA. 20+50.35 SUNDAY GULCH DRIVE INTERSECTION.
STA. 20+50.35 TO STA. 24+09.88 SUNDAY GULCH DRIVE INTERSECTION.
STA. 24+09.88 TO STA. 28+56.54 TO STA. 29+41.97 BIG JOHNSON DRIVE INTERSECTION.



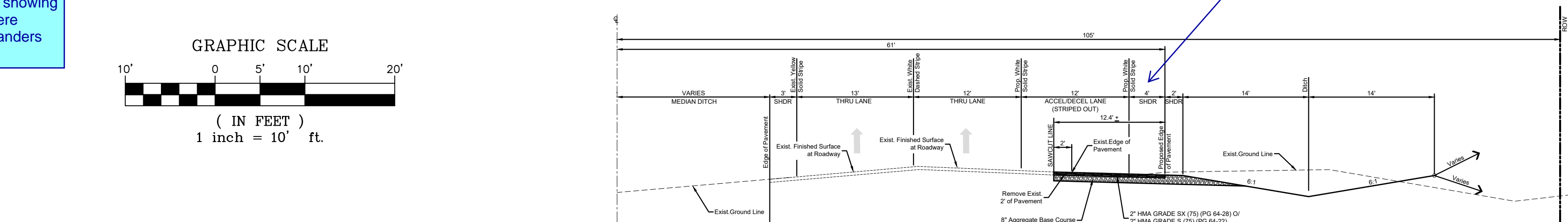
TYPICAL SECTION
BRADLEY ROAD
STA. 15+76.76 to STA. 19+80.96
NOT TO SCALE



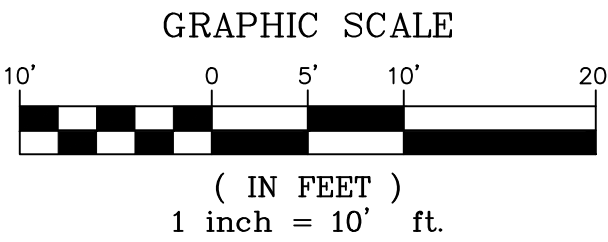
TYPICAL SECTION
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STA. 20+60.48 to STA. 29+74.97
NOT TO SCALE



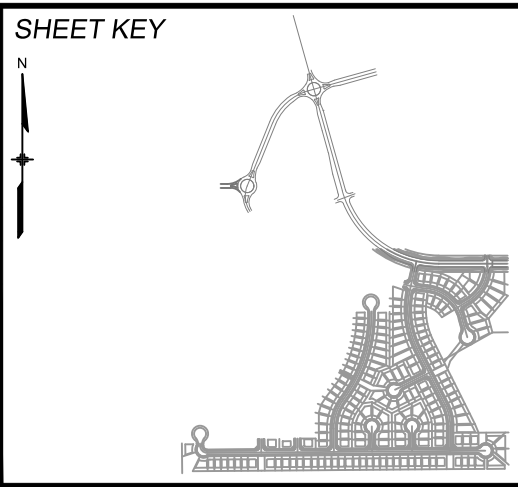
TYPICAL SECTION
BRADLEY ROAD
STA. 20+60.48 to STA. 29+74.97
NOT TO SCALE



TYPICAL SECTION
BRADLEY ROAD
STA. 29+74.97 to STA. 36+64.55
NOT TO SCALE



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FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\TY01.dwg			
CTB FILE: ----			
PLOT DATE: July 2, 2019 2:16:02 PM			
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BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2' AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4' AULM. CAP PLS 10377)

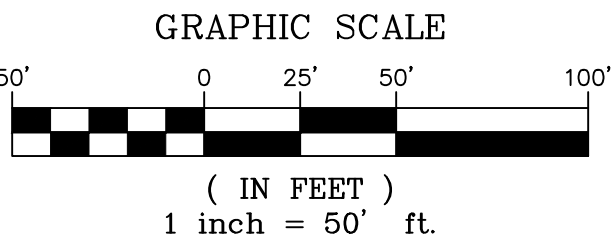
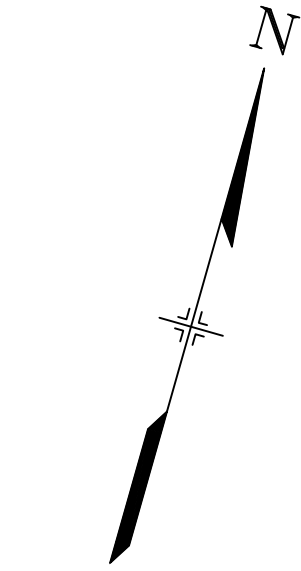
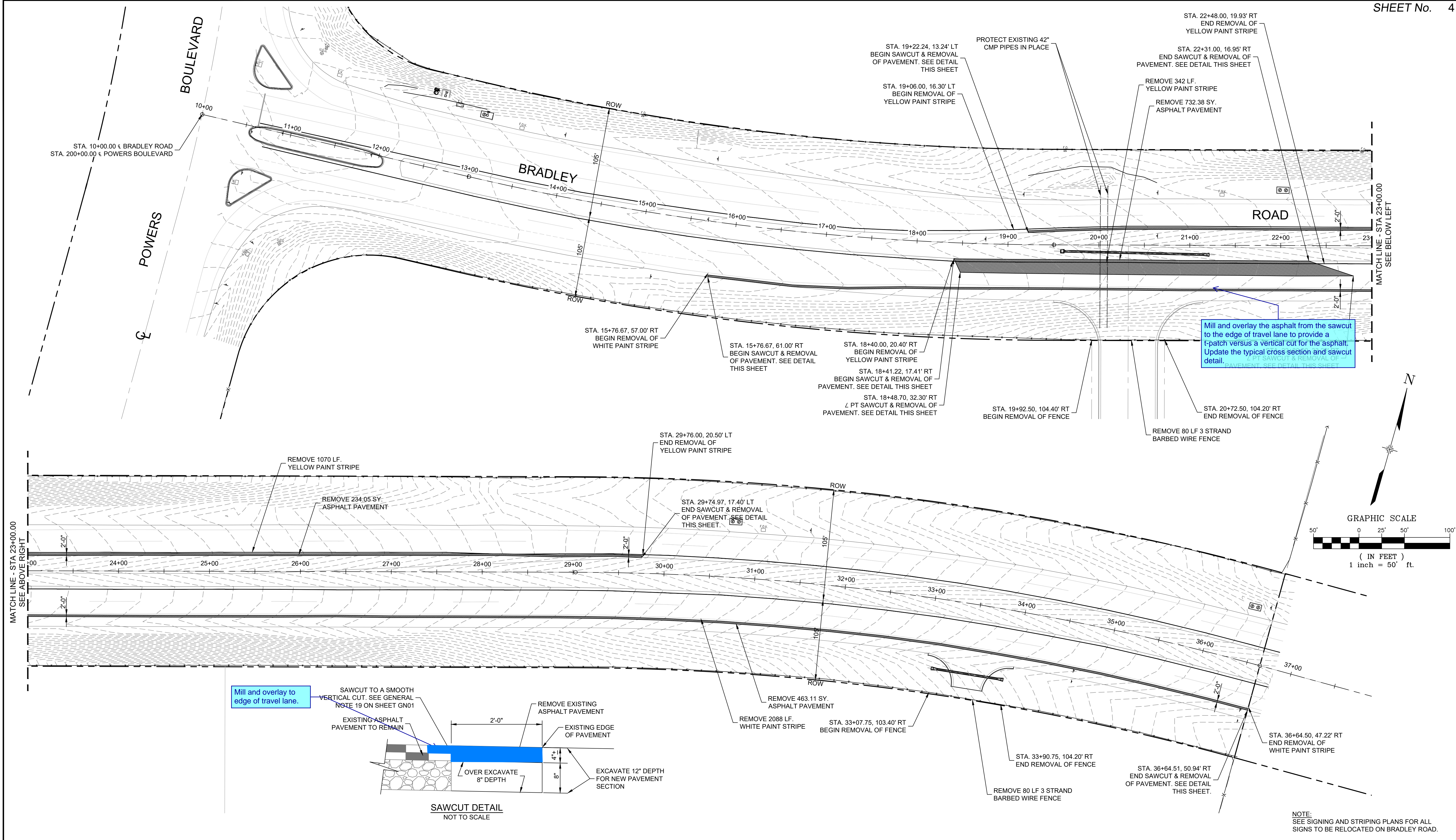


SEAL

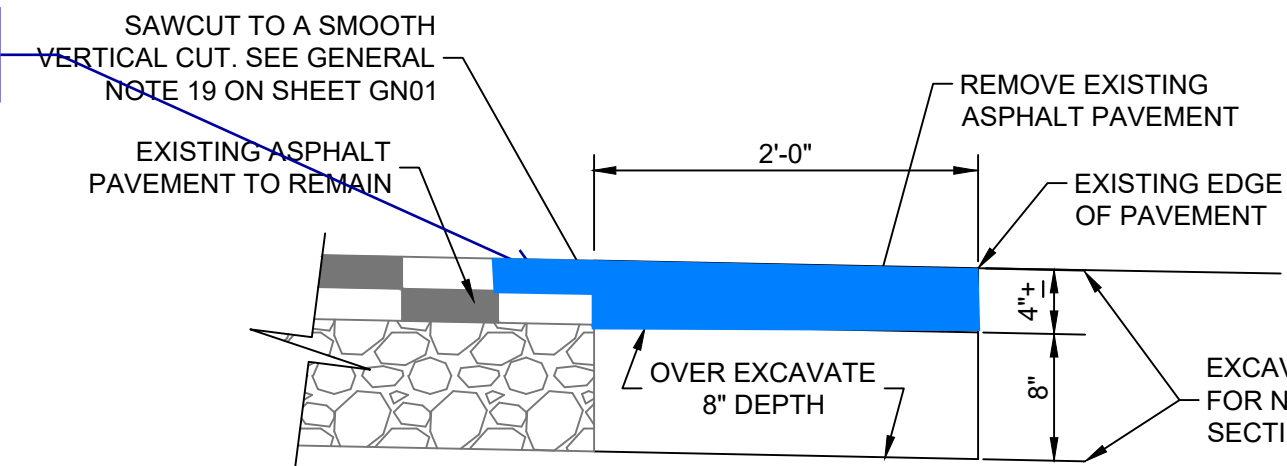
PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS			
LEGACY DRIVE PLAN & PROFILE			
DESIGNED BY: NMS	SCALE: HORIZ 1" = 40'	DATE ISSUED: JULY, 2019	DRAWING No. TY01
CHECKED BY: NMS	VERT. 1" = 8'	SHEET 3 OF 71	



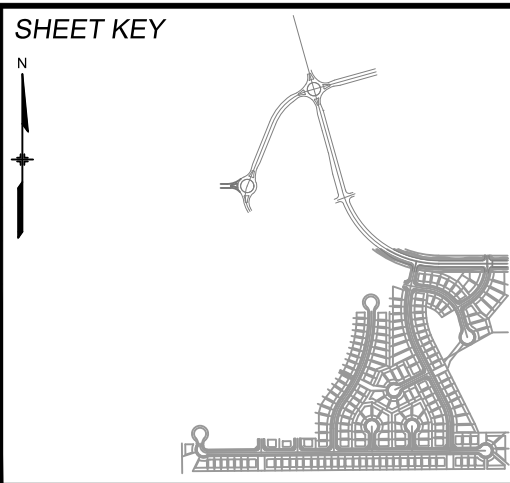
Mill and overlay to edge of travel lane.



SAWCUT DETAIL
NOT TO SCALE

NOTE:
SEE SIGNING AND STRIPING PLANS FOR ALL
SIGNS TO BE RELOCATED ON BRADLEY ROAD.

REFERENCE DRAWINGS			
No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RM01-Bradley Road.dwg			
CTB FILE: ----			
PLOT DATE: July 2, 2019 1:18:14 PM			
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BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4" AULM. CAP PLS 10377)



SEAL

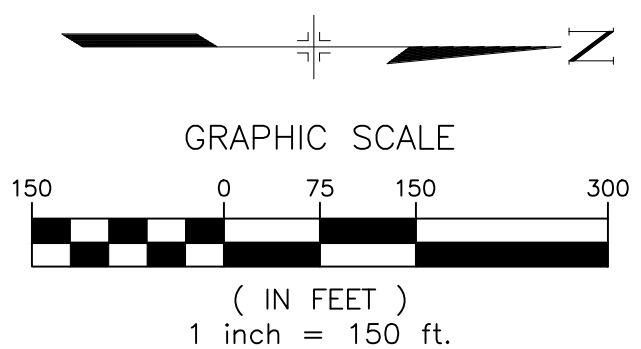
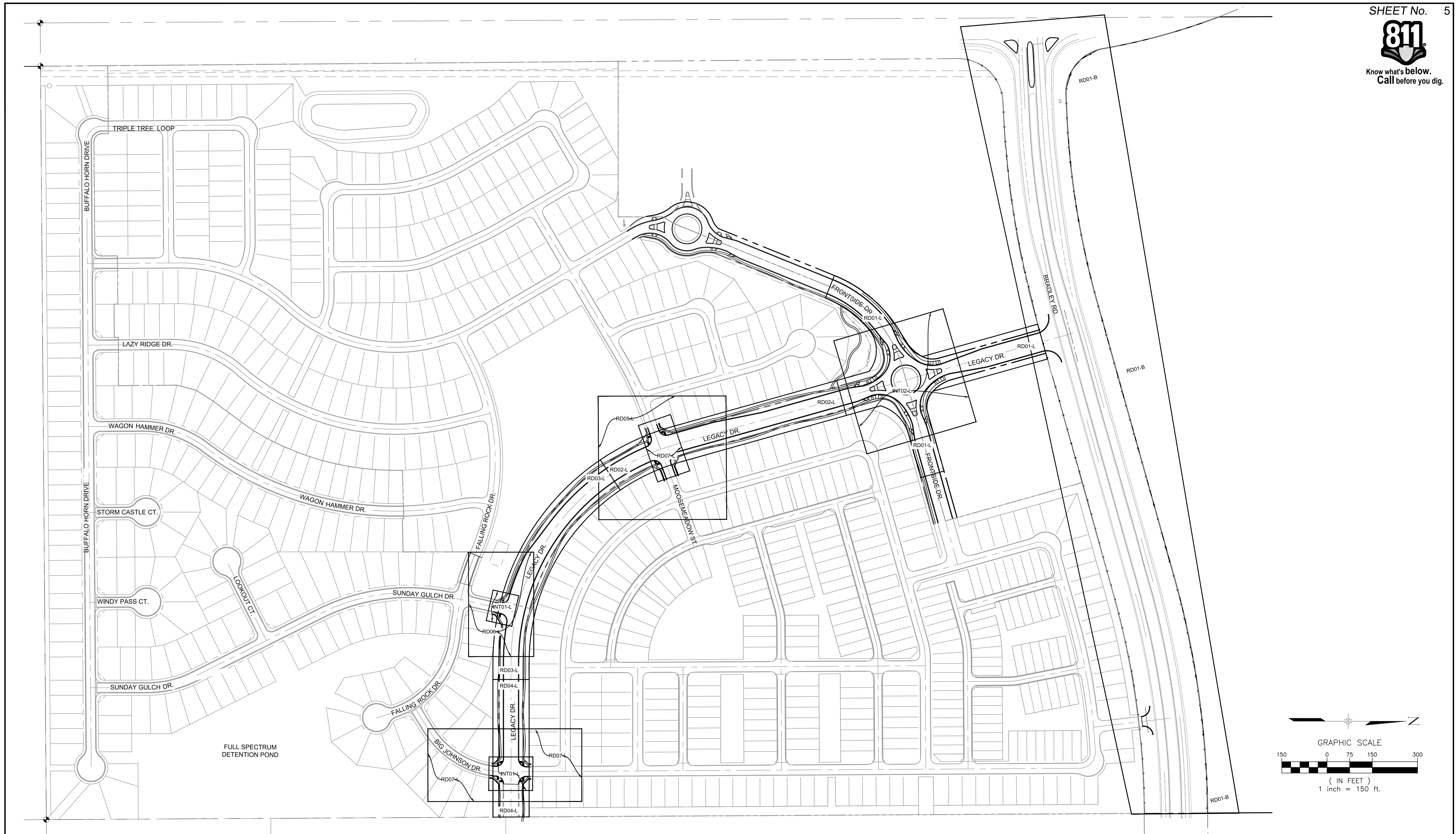
PRELIMINARY
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FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS			
BRADLEY ROAD PROJECT DEMOLITION			
DESIGNED BY: NMS	SCALE: HORIZ 1" = 50'	DATE ISSUED: JULY, 2019	DRAWING No.
CHECKED BY: NMS	VERT. N.A.	SHEET 4 OF 71	RM01-B

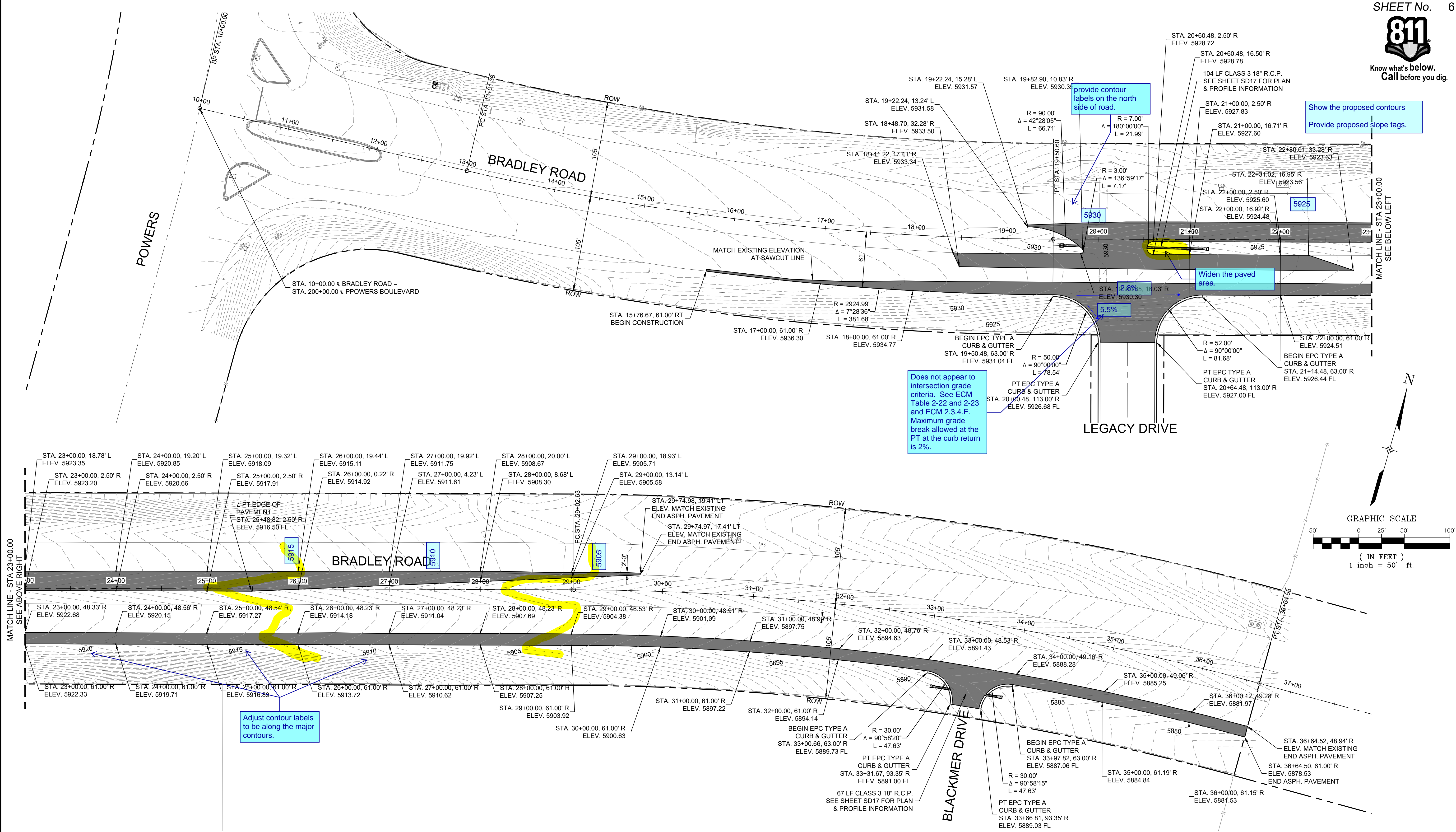


Know what's below.
Call before you dig.

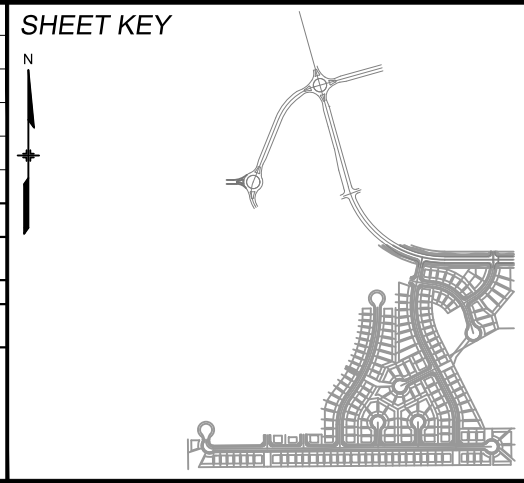
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COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD01-B.dwg			
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BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
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FOR AND ON BEHALF OF
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PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS			
BRADLEY ROAD ROADWAY PLAN			
DESIGNED BY: NMS	SCALE: HORIZ 1" = 50'	DATE ISSUED: JULY, 2019	DRAWING No. RD01-B
DRAWN BY: TJC	VERT. N.A.	SHEET 6 OF 71	
CHECKED BY: NMS			



Know what's below.
Call before you dig.

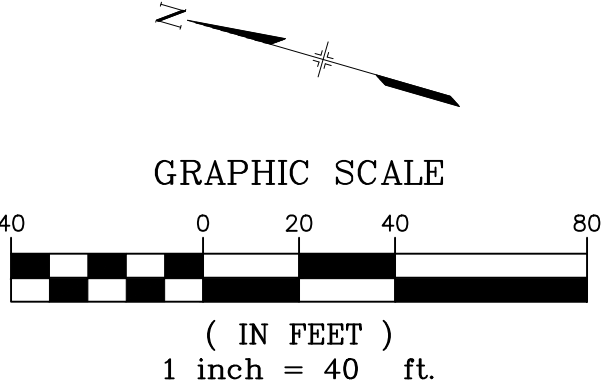
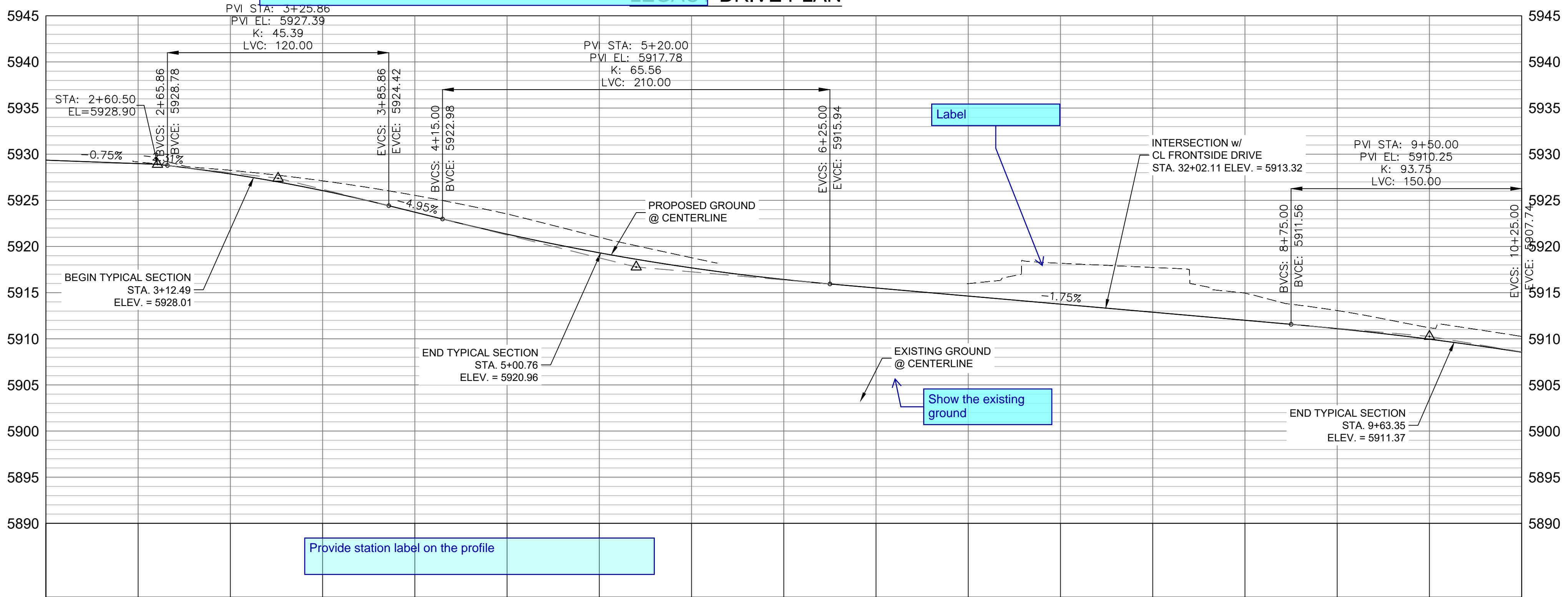
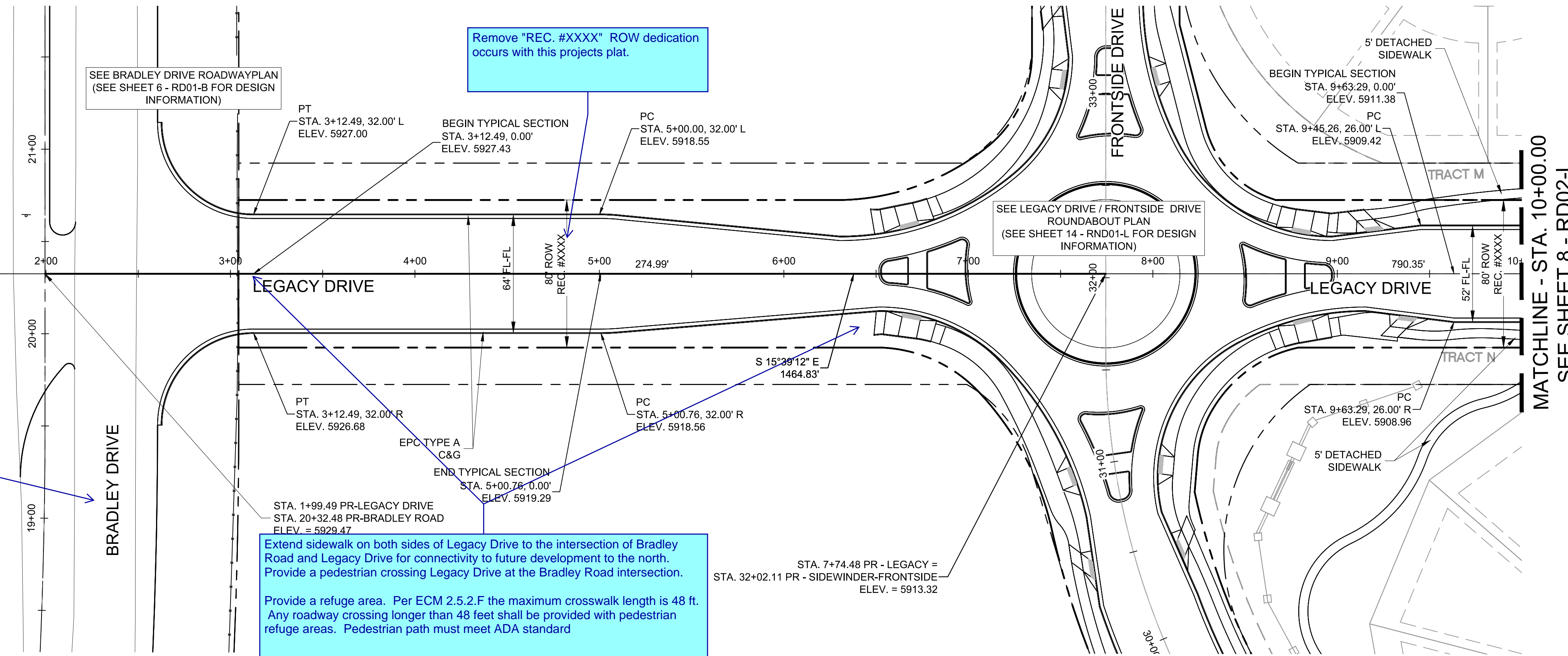
Update all street
name reference from
"Bradley Drive" to
"Bradley Road"

Remove "REC. #XXXX" ROW dedication
occurs with this projects plat.

SEE BRADLEY DRIVE ROADWAYPLAN
(SEE SHEET 6 - RD01-B FOR DESIGN
INFORMATION)

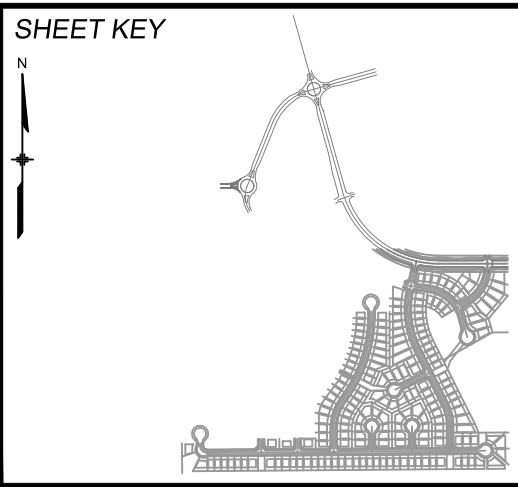
SEE LEGACY DRIVE / FRONTSIDE DRIVE
ROUNDAABOUT PLAN
(SEE SHEET 14 - RND01-L FOR DESIGN
INFORMATION)

MATCHLINE - STA. 10+00.00
SEE SHEET 8 - RD02-L



MATCHLINE - STA. 10+00.00
SEE SHEET 8 - RD02-L

REFERENCE DRAWINGS			
No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD01-Legacy Road.dwg			
CTB FILE: ----			
PLOT DATE: July 2, 2019 1:21:33 PM			
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BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
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PRELIMINARY
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FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS			
LEGACY DRIVE PLAN & PROFILE			
DESIGNED BY: NMS	SCALE: 1" = 40'	DATE ISSUED: JULY, 2019	DRAWING No. RD01-L
CHECKED BY: NMS	VERT. 1" = 8'	SHEET 7 OF 71	



Know what's below.
Call before you dig.

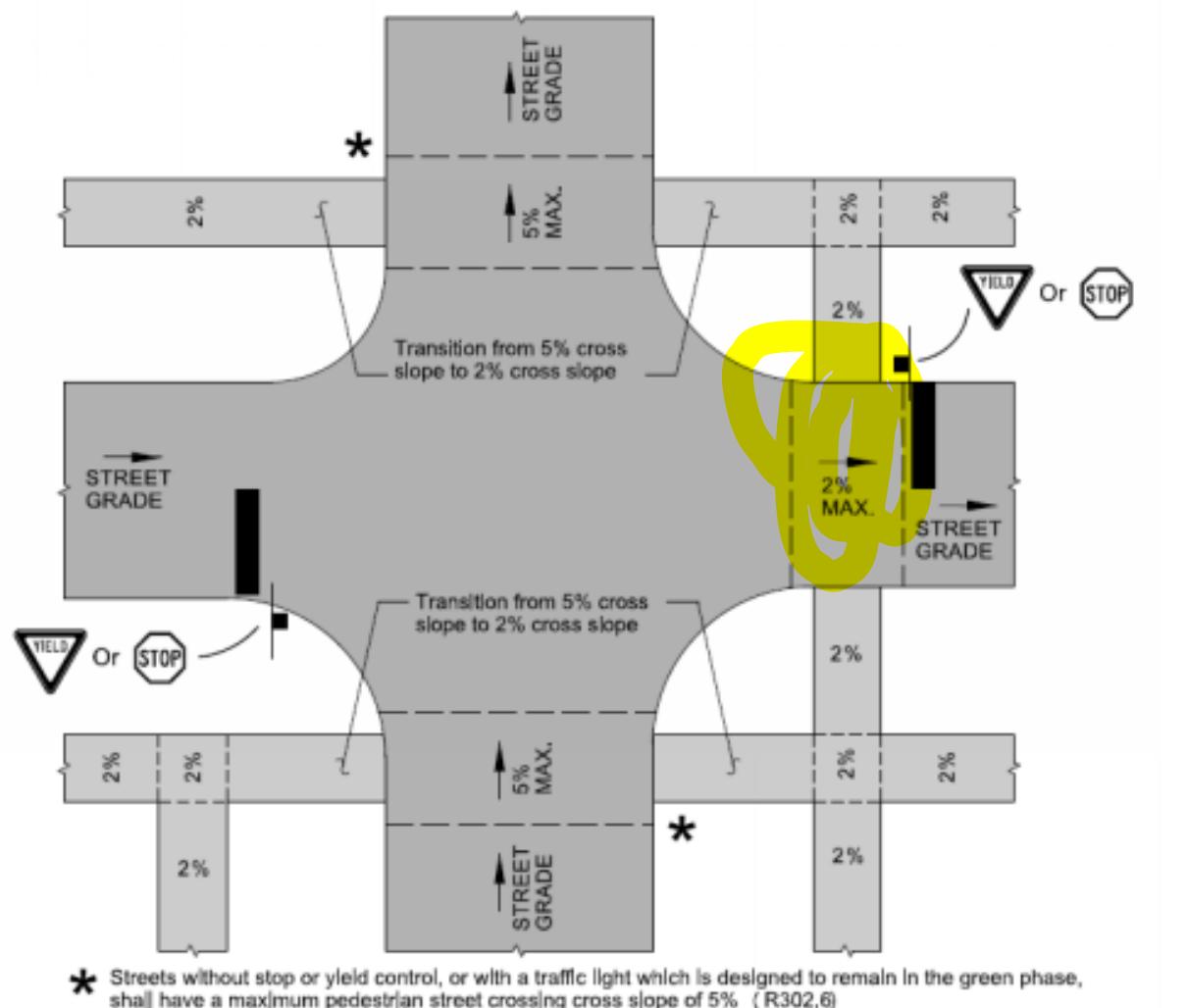
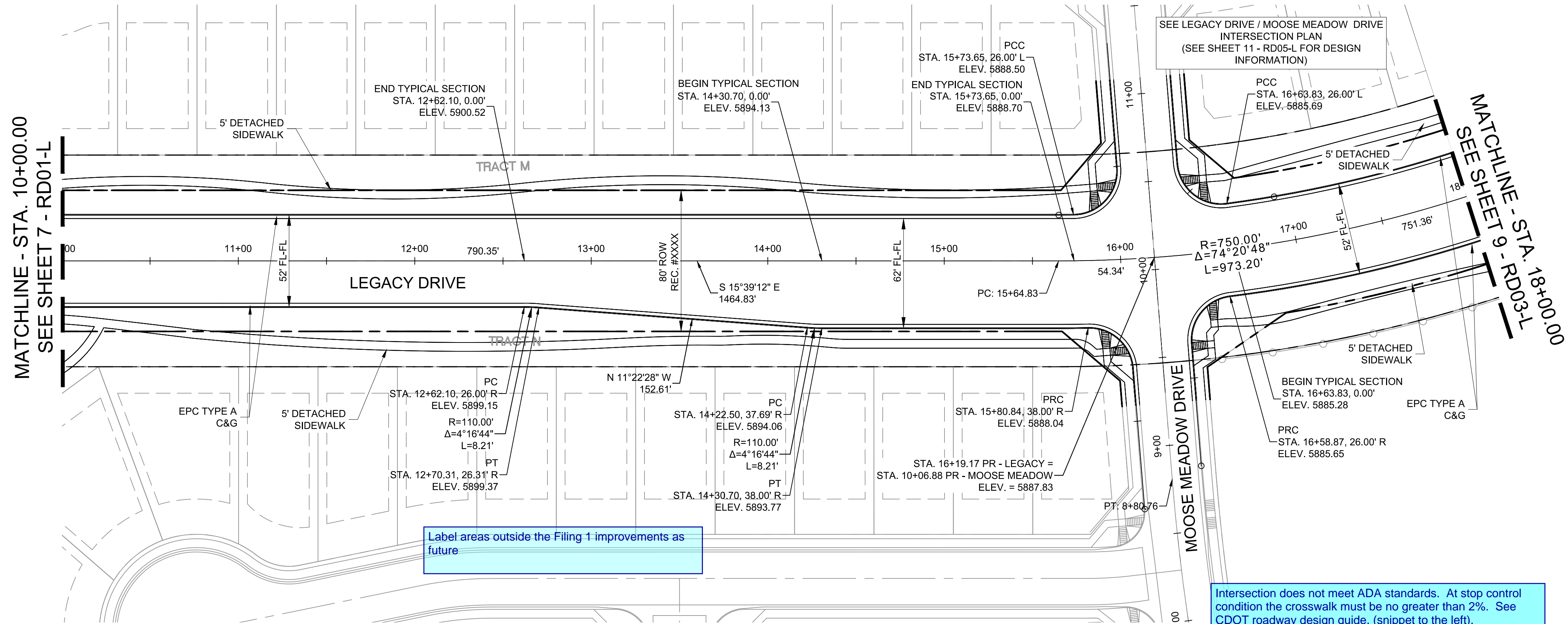
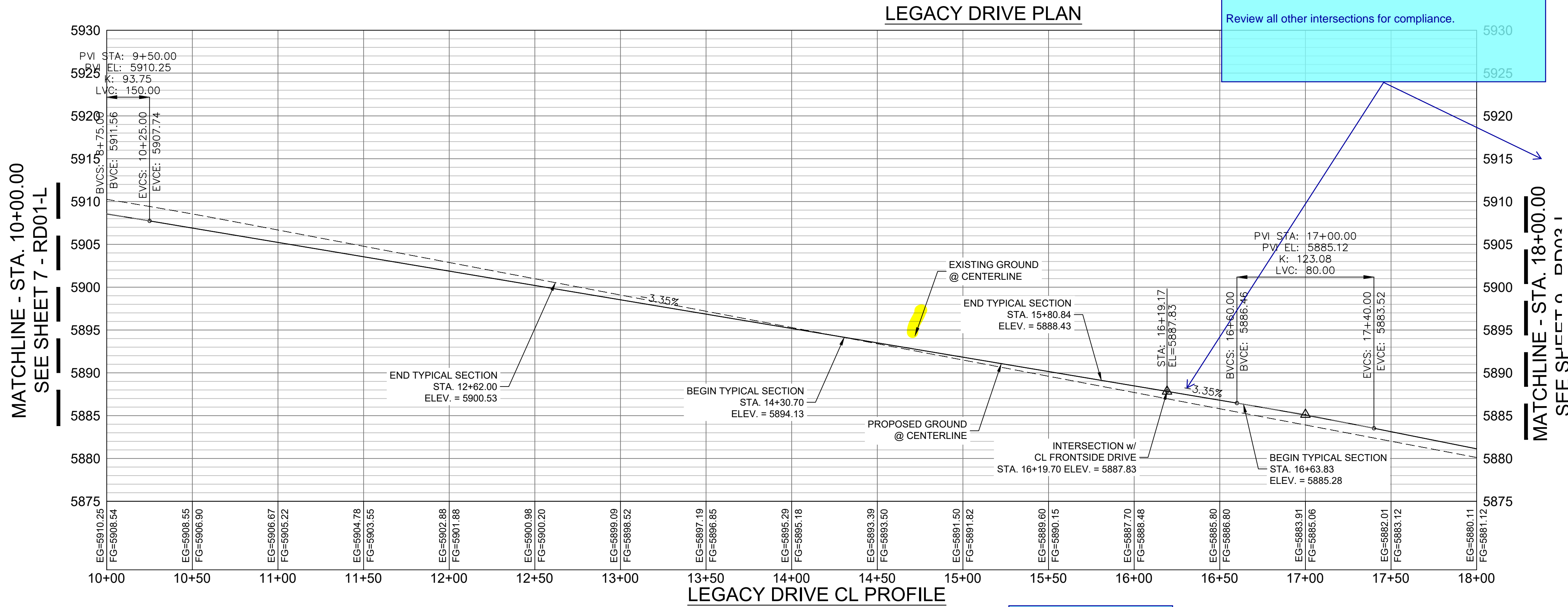


Figure 7 - Pedestrian Street Crossing Cross Slope



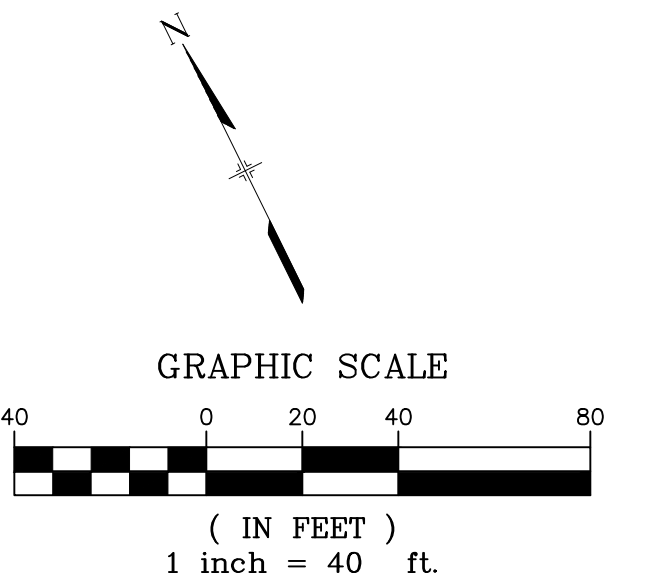
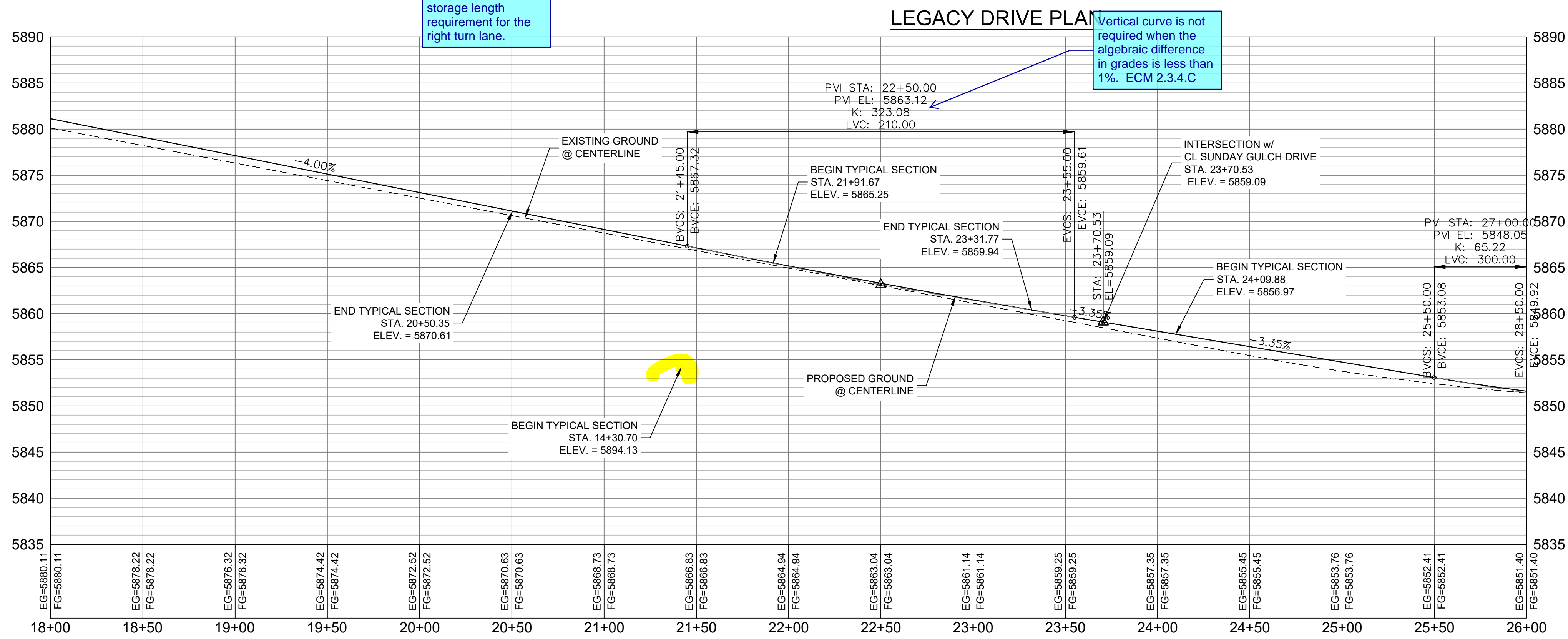
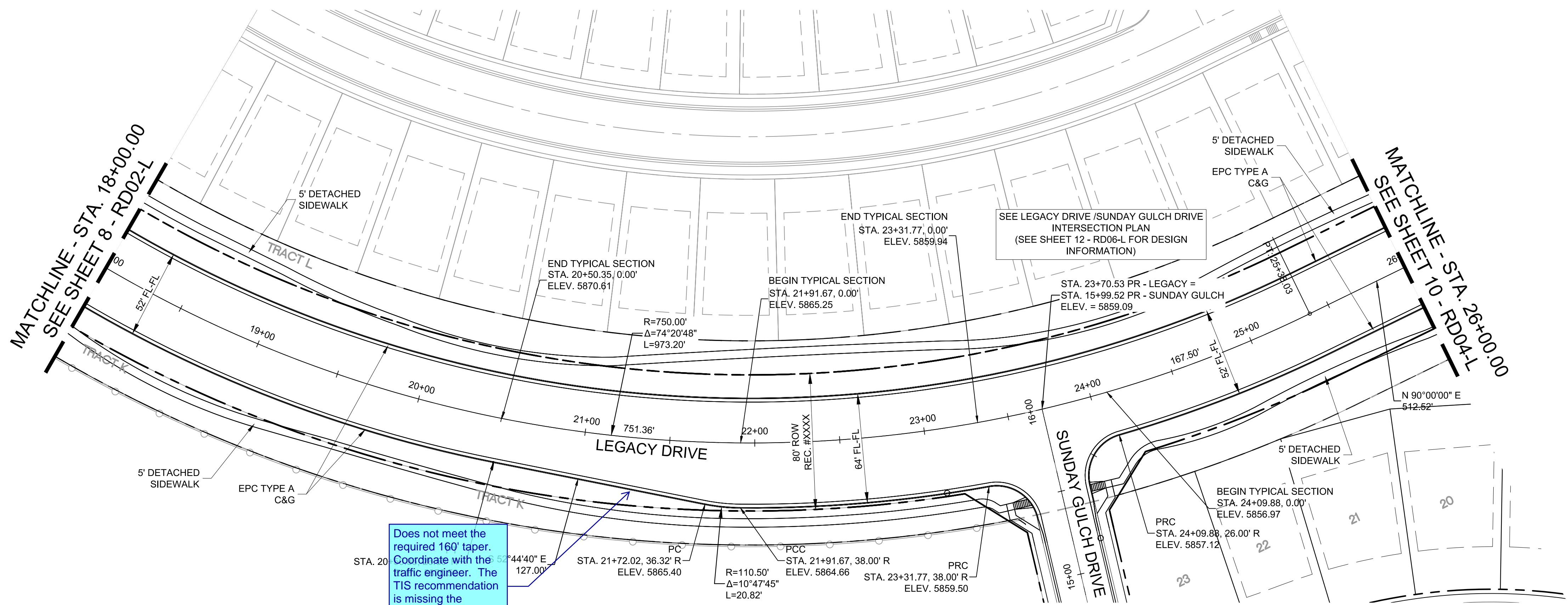
HORIZ: 1" = 40'
VERT: 1" = 8'

Update sheet key to show the location of the profile.

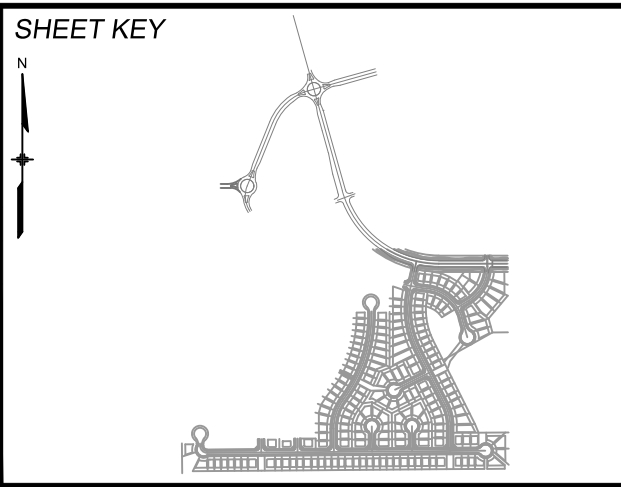
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DESIGNED BY: NMS
DRAWN BY: TJC
CHECKED BY: NMS

SCALE
HORIZ 1" = 40'
VERT. 1" = 8'

DATE ISSUED: JULY, 2019
SHEET 9 OF 71

DRAWING No. RD03-L

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

PREPARED BY:
Matrix
DESIGN GROUP

TRAILS AT ASPEN RIDGE

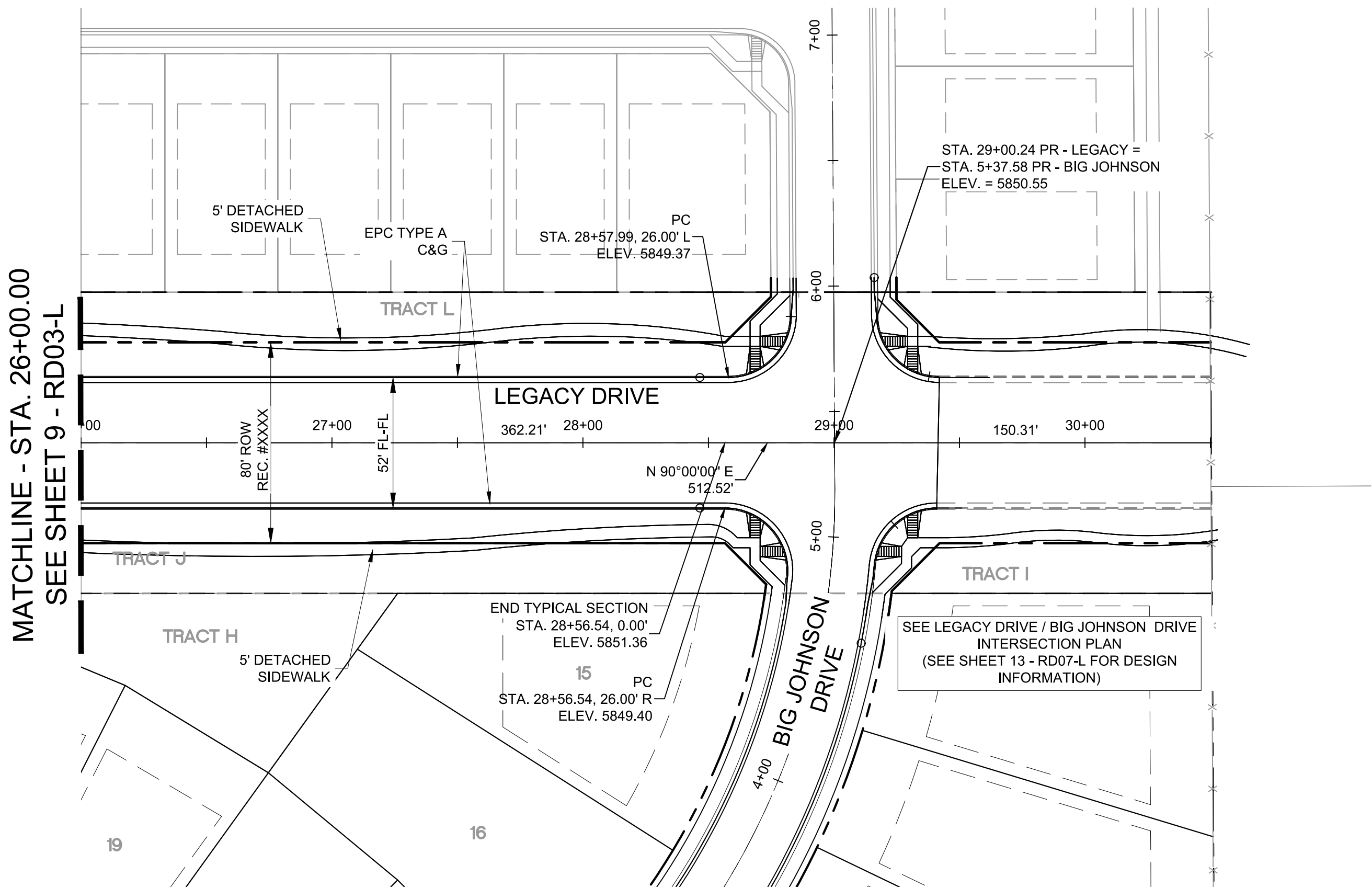
FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

**LEGACY DRIVE
PLAN & PROFILE**

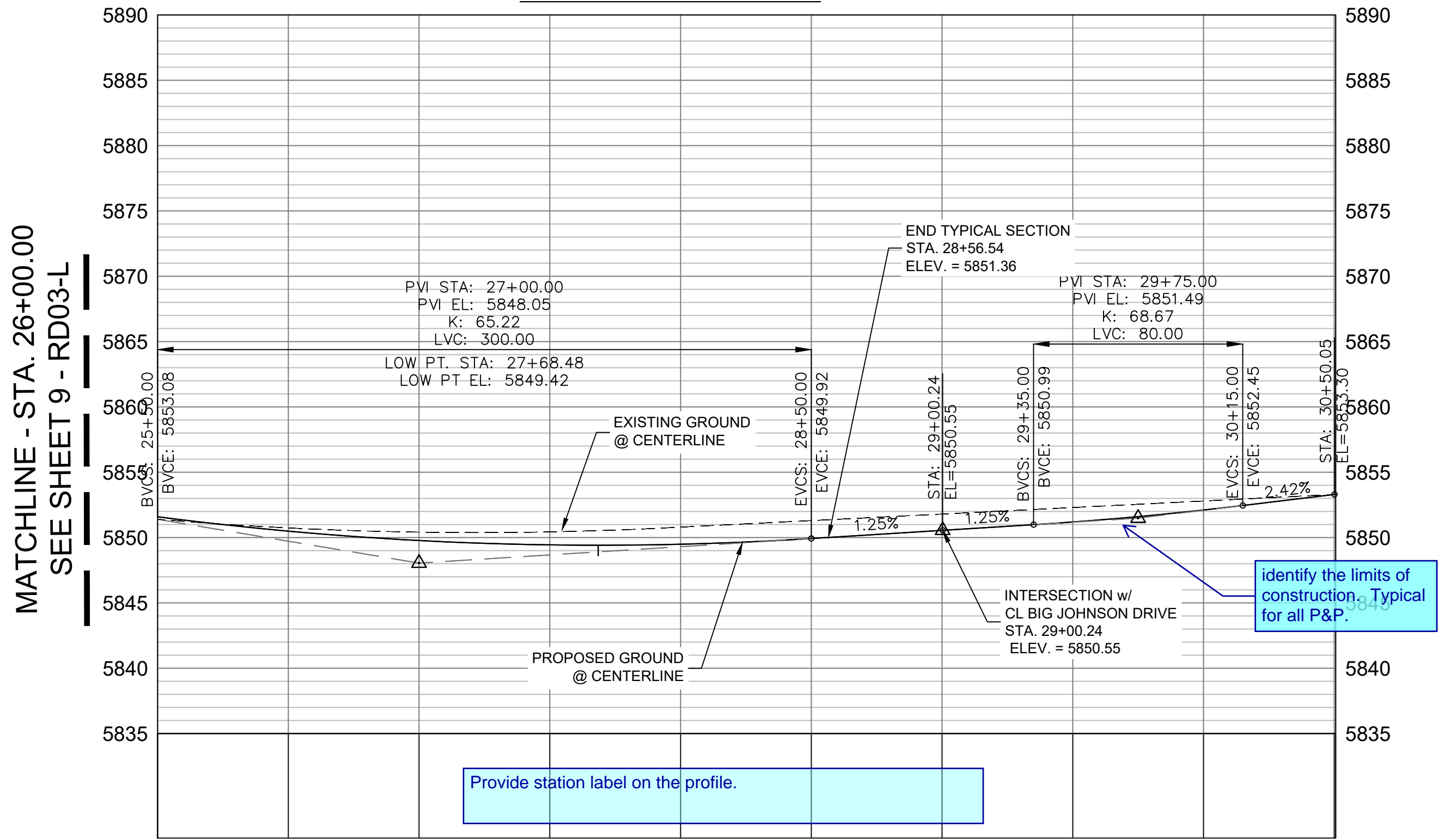
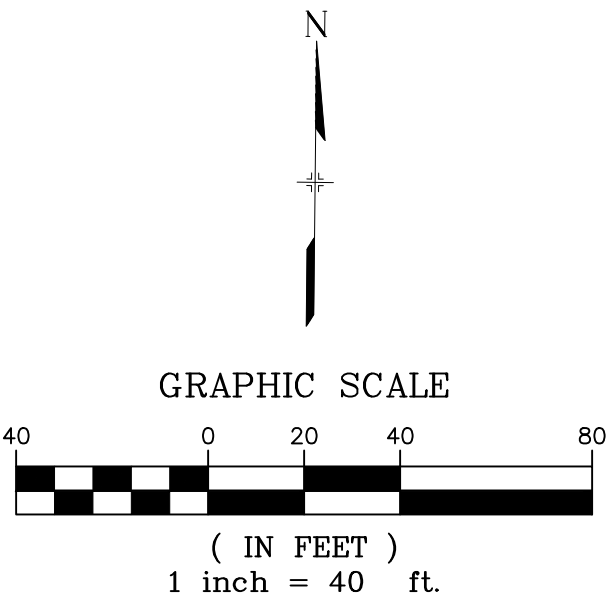
PRELIMINARY
THIS DRAWING HAS NOT
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IS SUBJECT TO CHANGE



Know what's below.
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LEGACY DRIVE PLAN



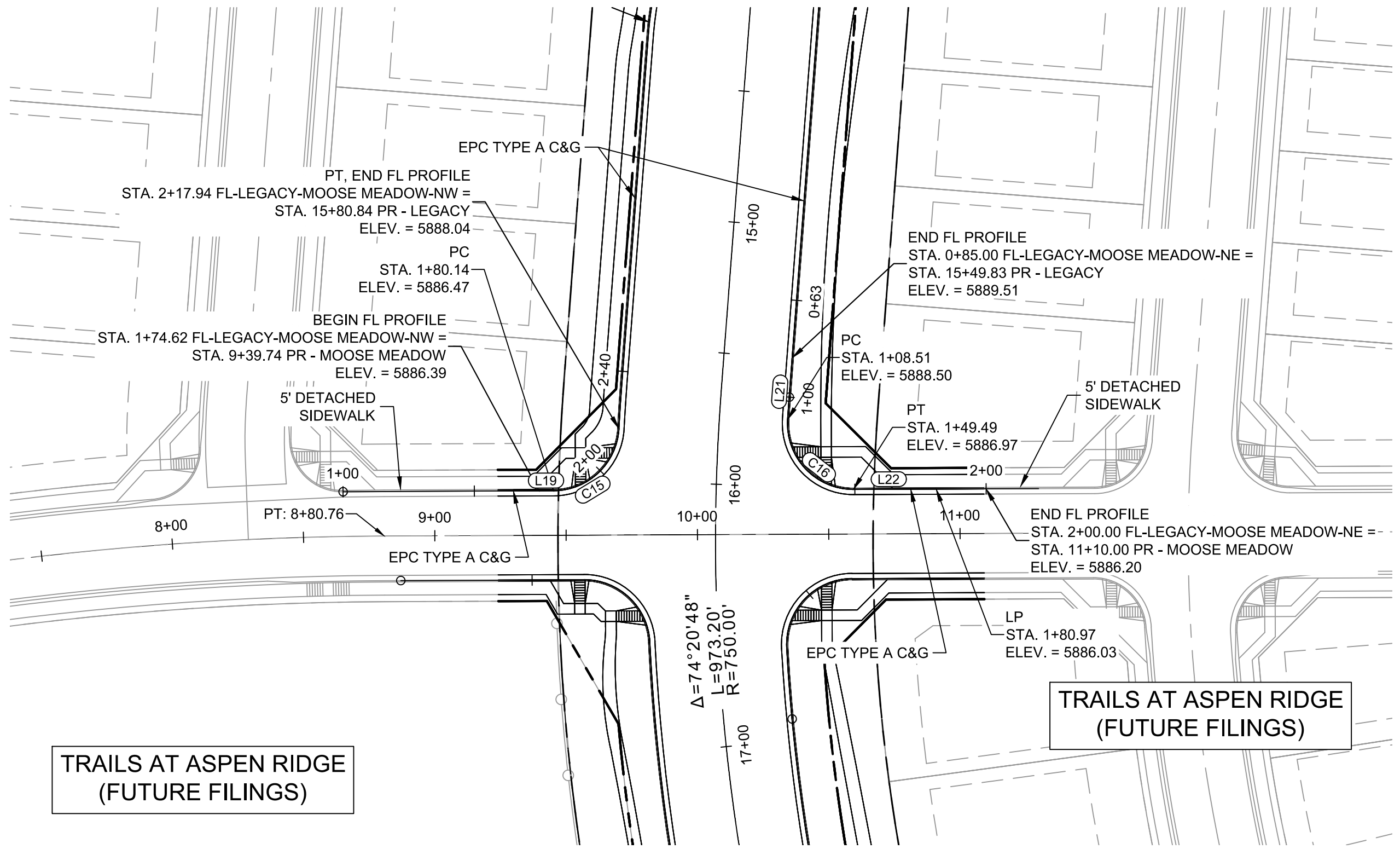
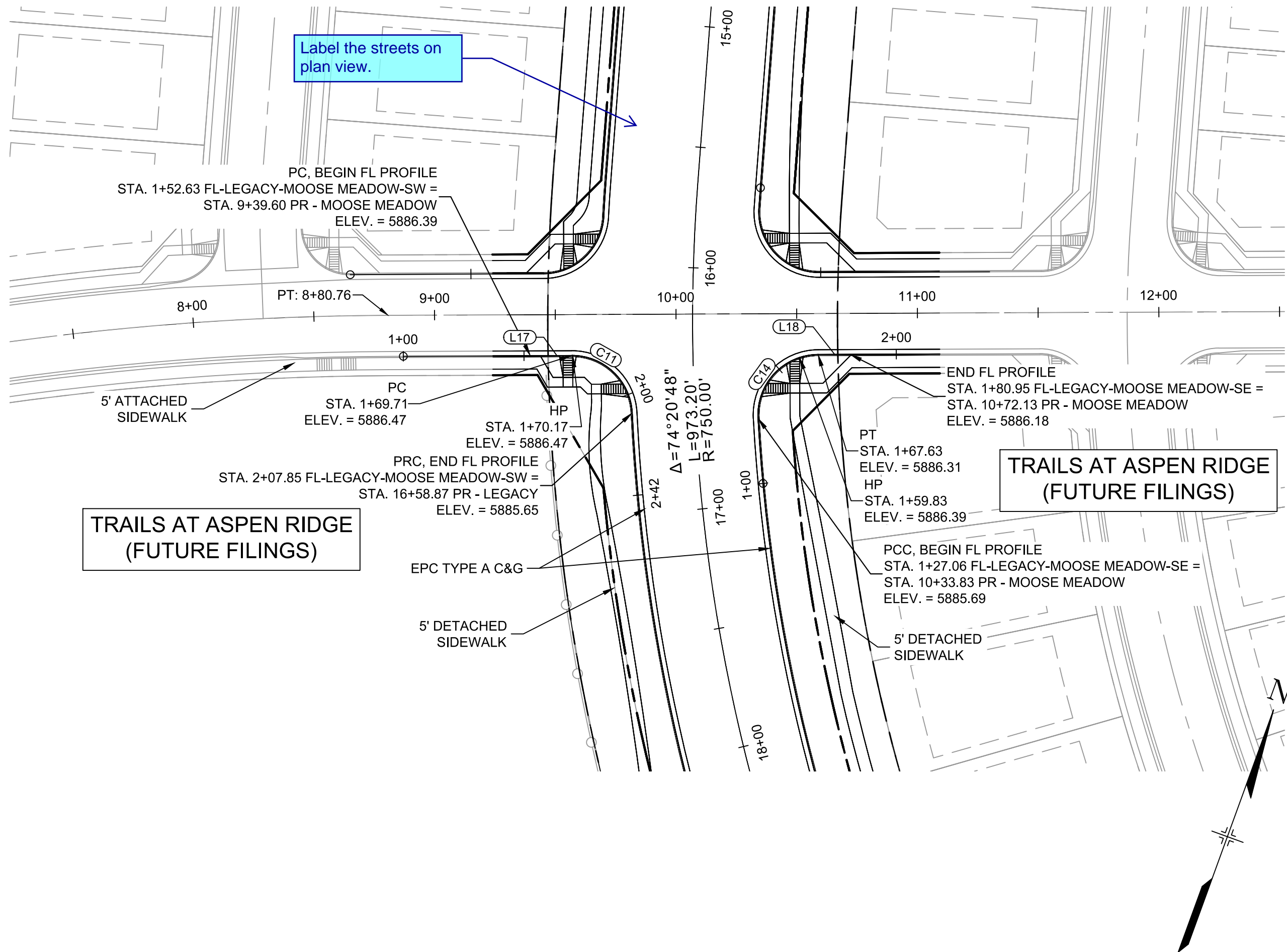
LEGACY DRIVE CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

REFERENCE DRAWINGS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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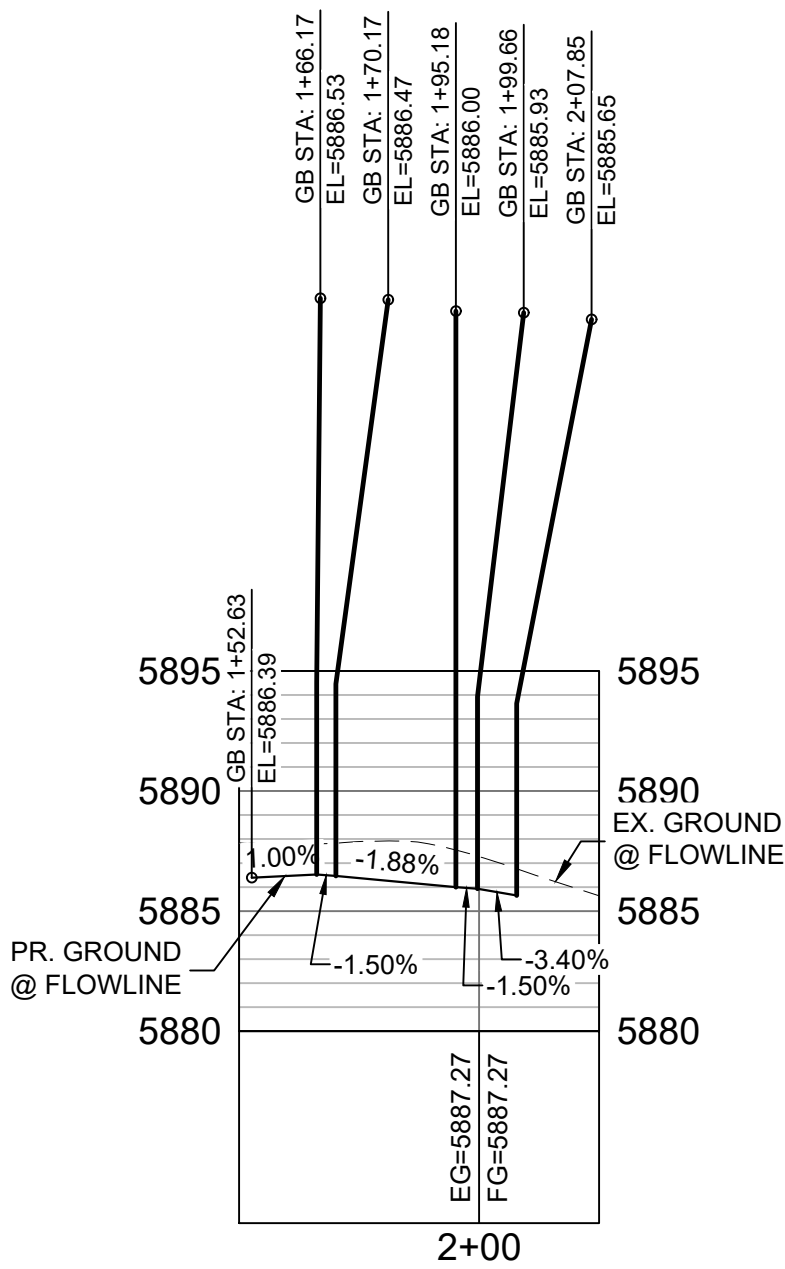


Know what's below.
Call before you dig.

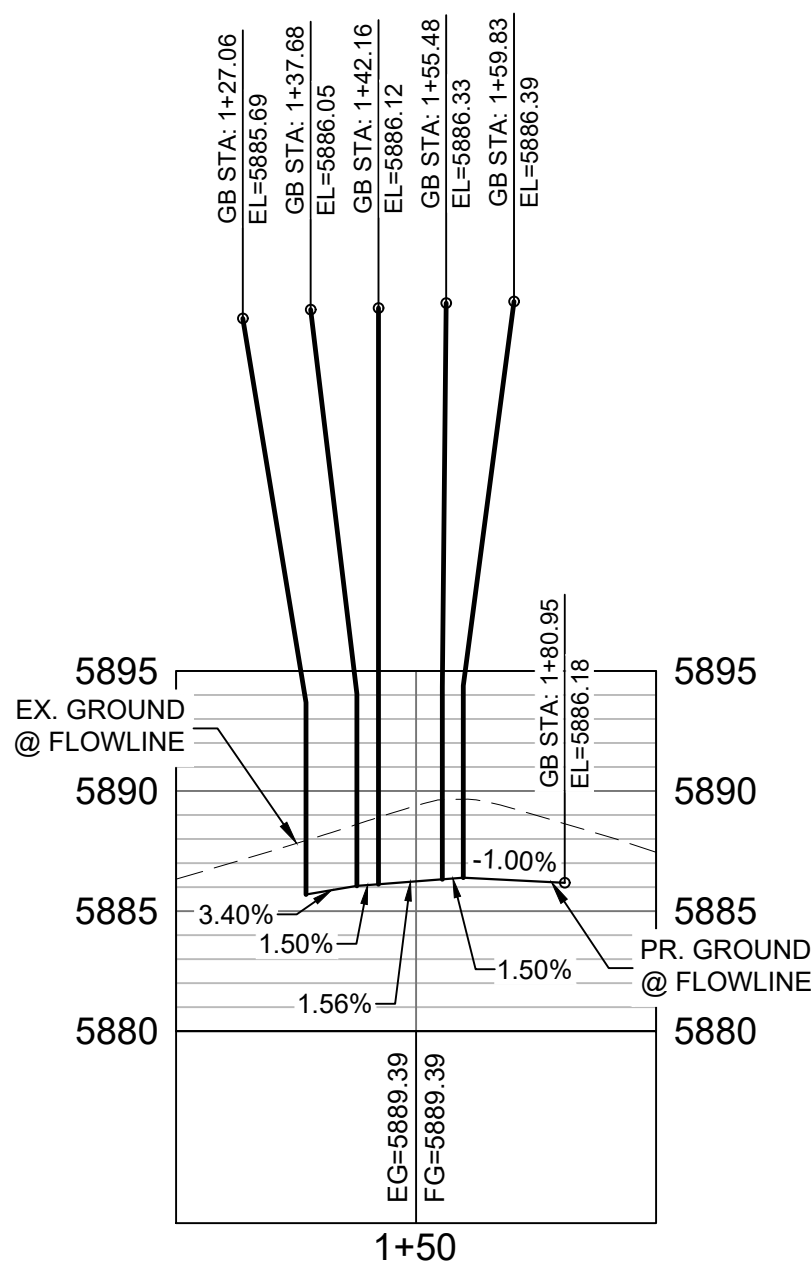


Provide sufficient CL P&P of Moose Meadow to see how this intersection will be constructed in the future. Similar comments for the other intersections along Legacy Drive.

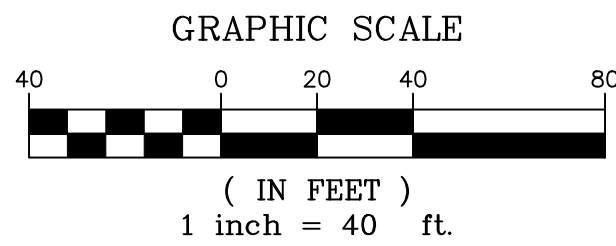
Also, revise so the intersection grade so there are no significant changes in slopes at the grade breaks.



MOOSE MEADOW SW FLOWLINE
PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'

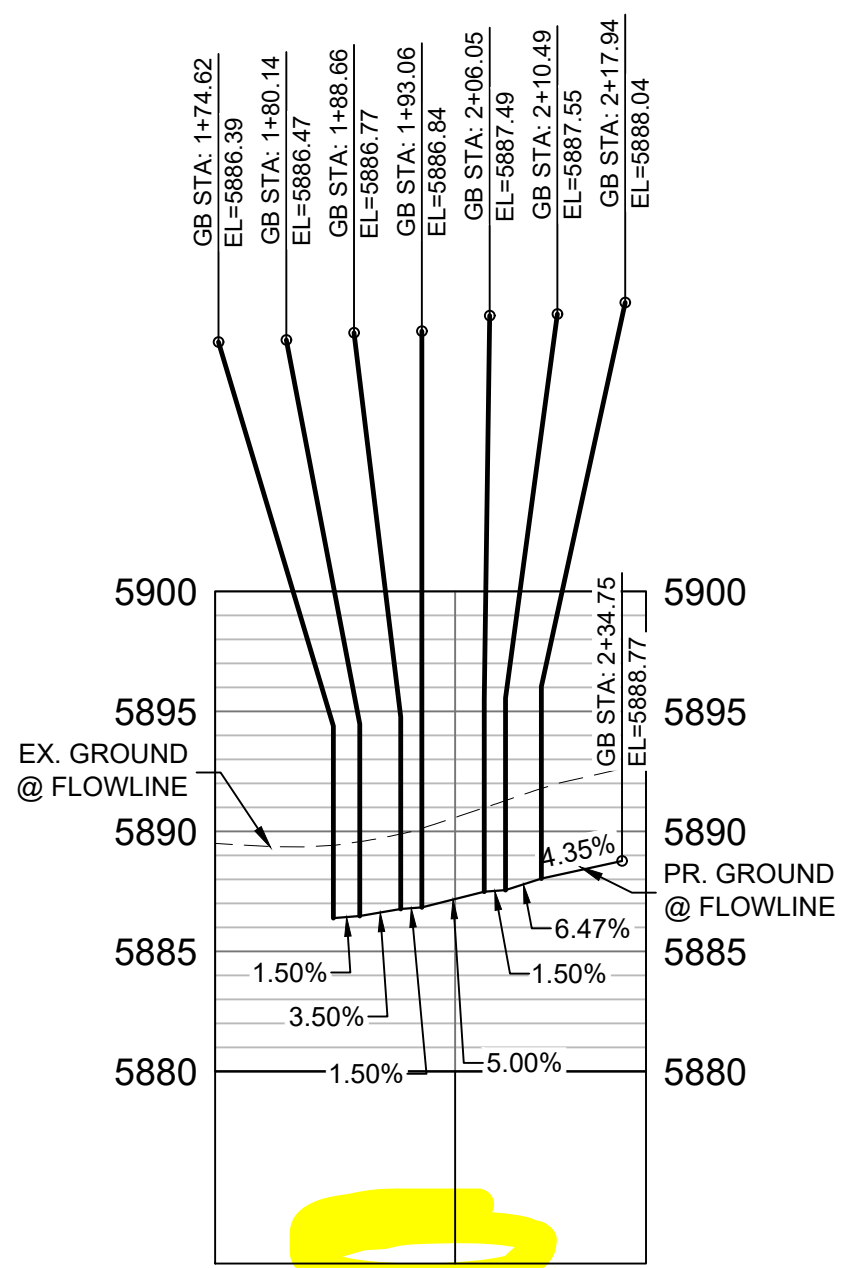


MOOSE MEADOW SE FLOWLINE
PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'

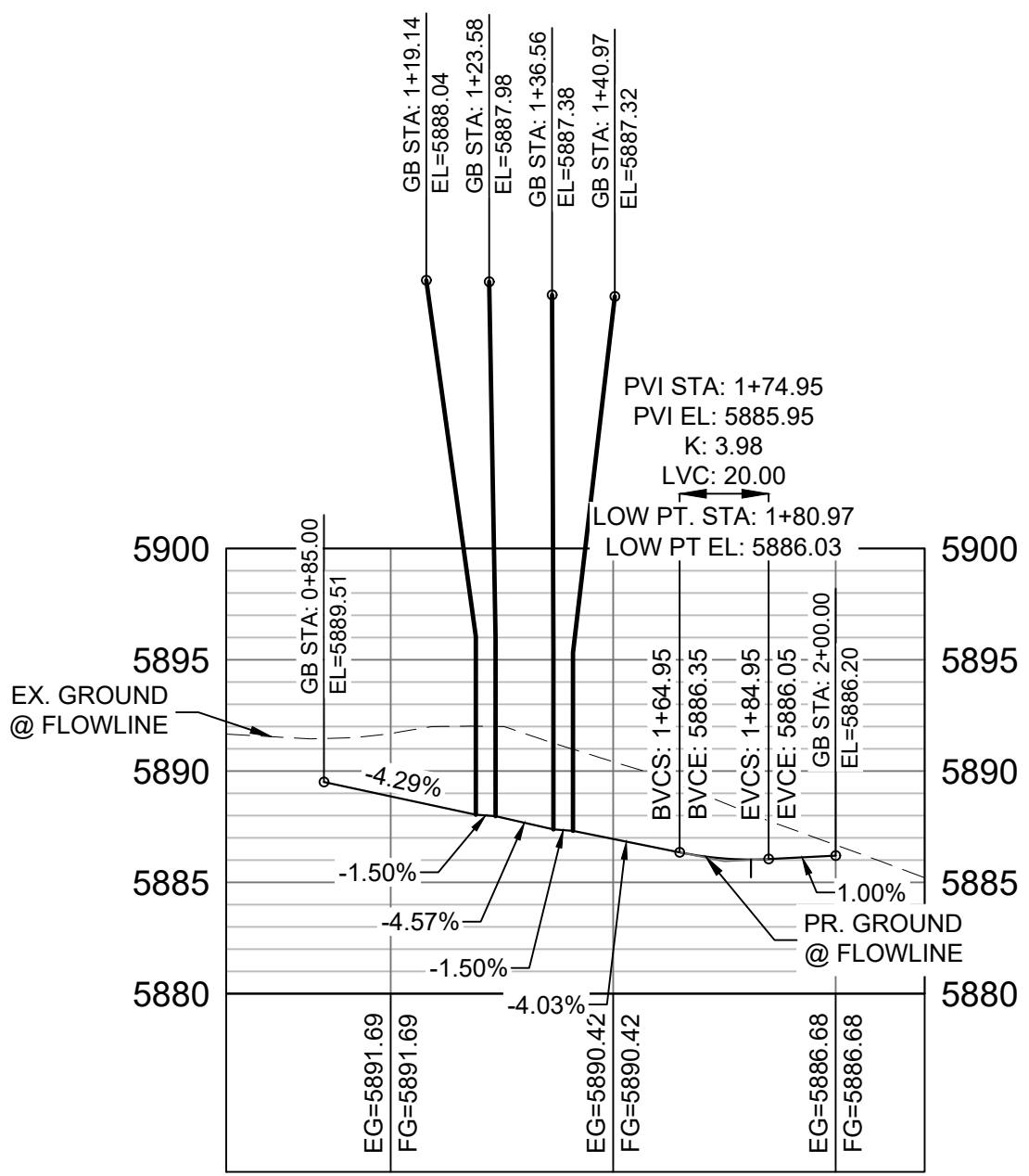


LINE TABLE		
LINE #	BEARING	DISTANCE
L17	N69°44'49"E	17.08
L18	N69°45'39"E	13.32

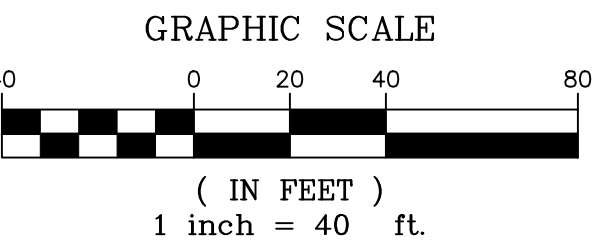
CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	ANGLE
C11	38.14	25.00	87°24'07"
C14	40.57	25.00	92°58'38"



MOOSE MEADOW NW FLOWLINE
PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'



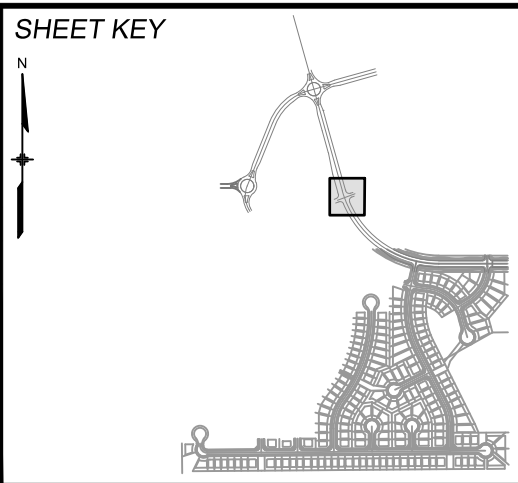
MOOSE MEADOW NE FLOWLINE
PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'



LINE TABLE		
LINE #	BEARING	DISTANCE
L19	N69°43'14"E	5.52
L21	S15°46'20"E	23.51
L22	N69°45'39"E	50.51

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	ANGLE
C15	37.80	25.00	86°37'59"
C16	40.98	25.00	93°54'44"

REFERENCE DRAWINGS			
No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD01-Legacy Road.dwg			
CTB FILE: ---			
PLOT DATE: July 2, 2019 1:22:21 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			



BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4" AULM. CAP PLS 10377)



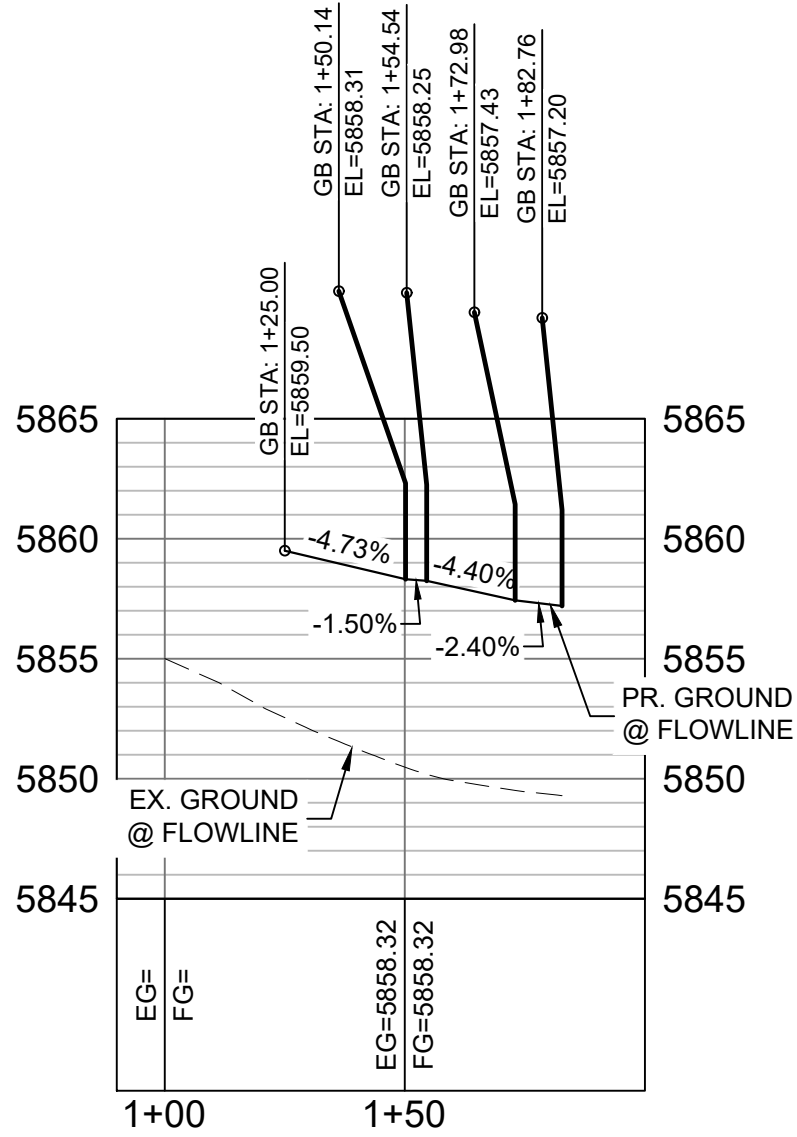
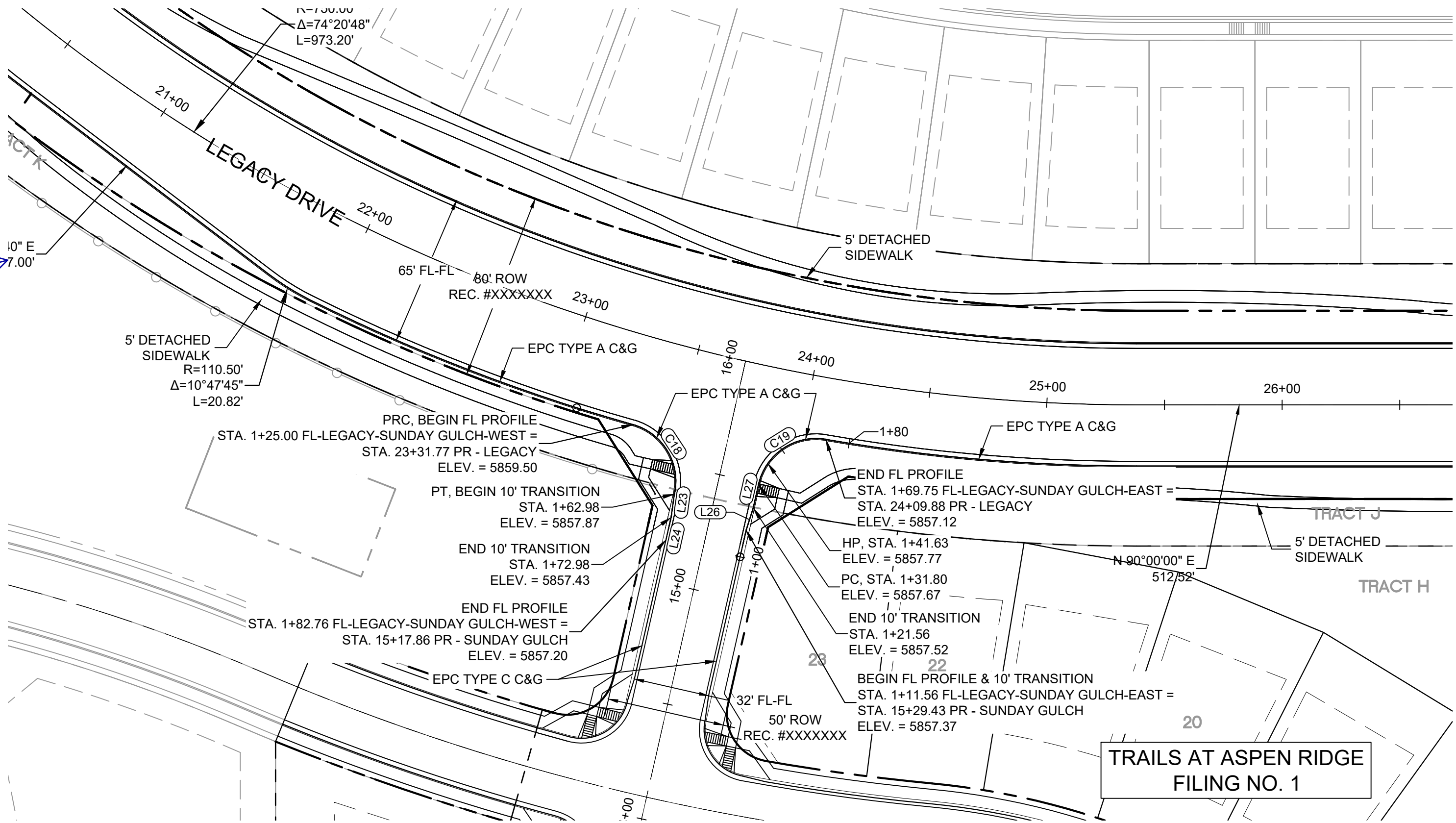
SEAL	
PRELIMINARY THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE	
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 19.886.011	

TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS			
CURB RETURN DETAILS LEGACY DRIVE & MOOSE MEADOW DRIVE			
DESIGNED BY: NMS	SCALE: 1" = 40'	DATE ISSUED: JUNE, 2019	DRAWING No. RD01-1
CHUBB RETURN DETAIL	VERT. 1" = 8'	SHEET 3 OF 50	



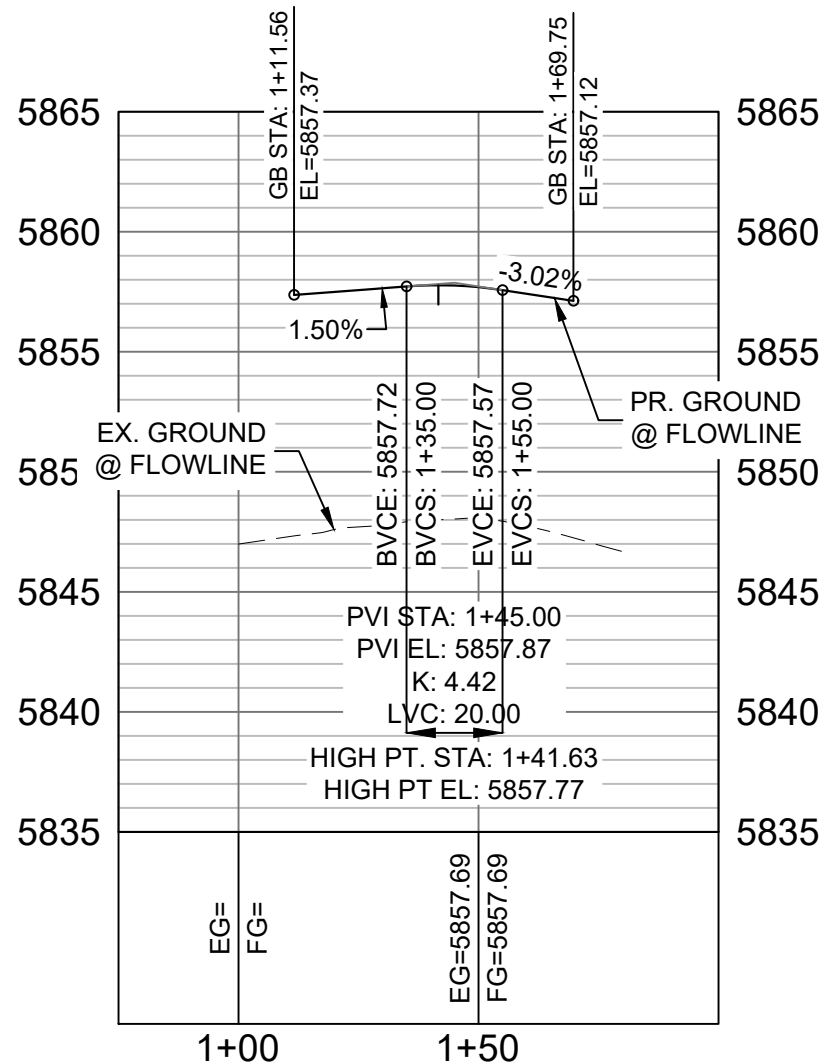
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Call before you dig.

Adjust view port or text



SUNDAY GULCH SW FLOWLINE PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

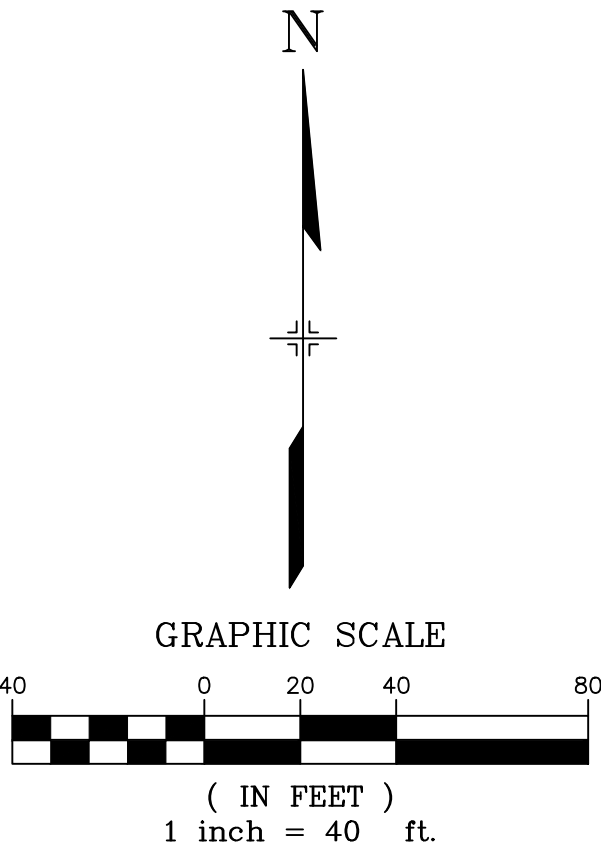


SUNDAY GULCH SE FLOWLINE PROFILE

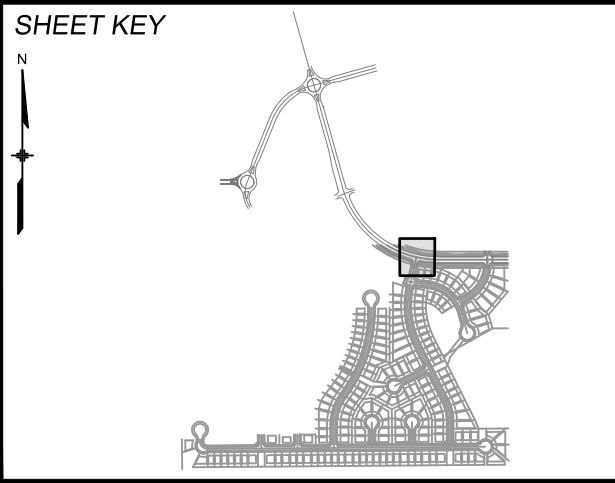
HORIZ: 1" = 40'
VERT: 1" = 8'

LINE TABLE		
LINE #	BEARING	DISTANCE
L23	S08°00'56"W	10.00
L24	S12°47'44"W	9.78
L26	N17°34'33"E	10.00
L27	N12°47'44"E	10.23

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	ANGLE
C18	37.98	25.00	87°02'20"
C19	37.96	25.00	86°59'40"



REFERENCE DRAWINGS			
No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD01-Legacy Road.dwg			
CTB FILE: ----			
PLOT DATE: July 2, 2019 1:22:33 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			



BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

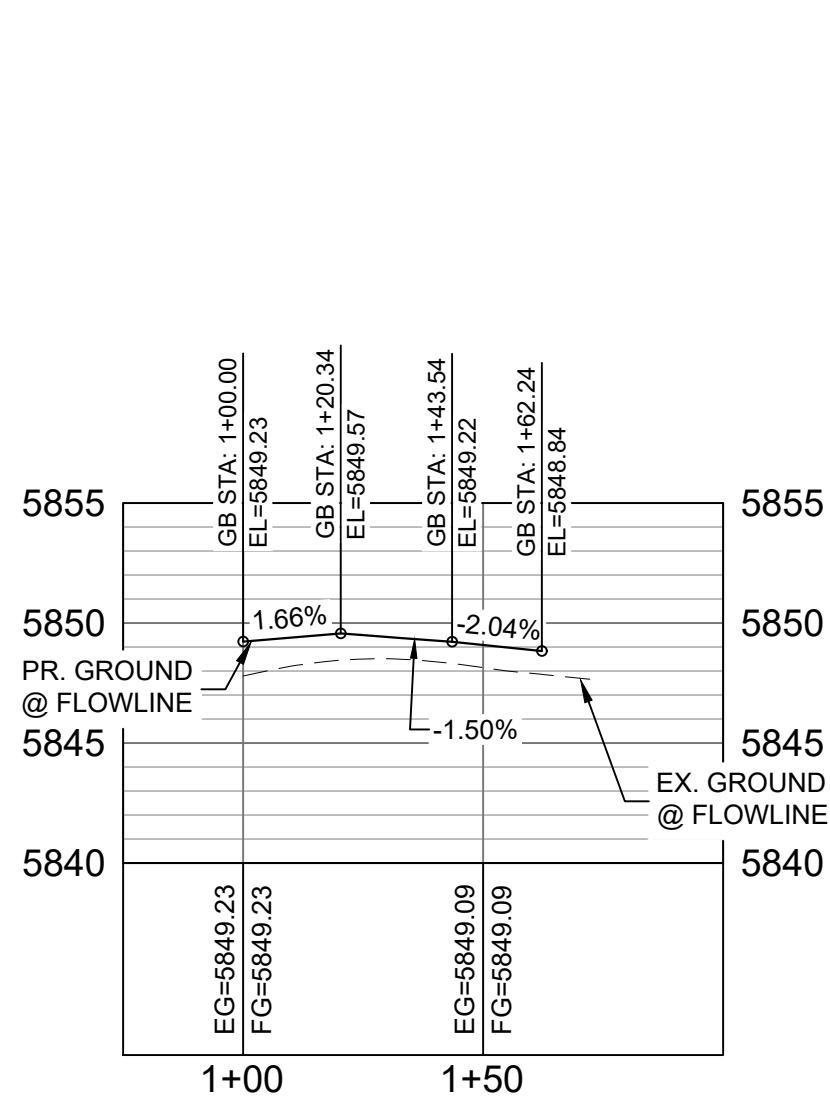
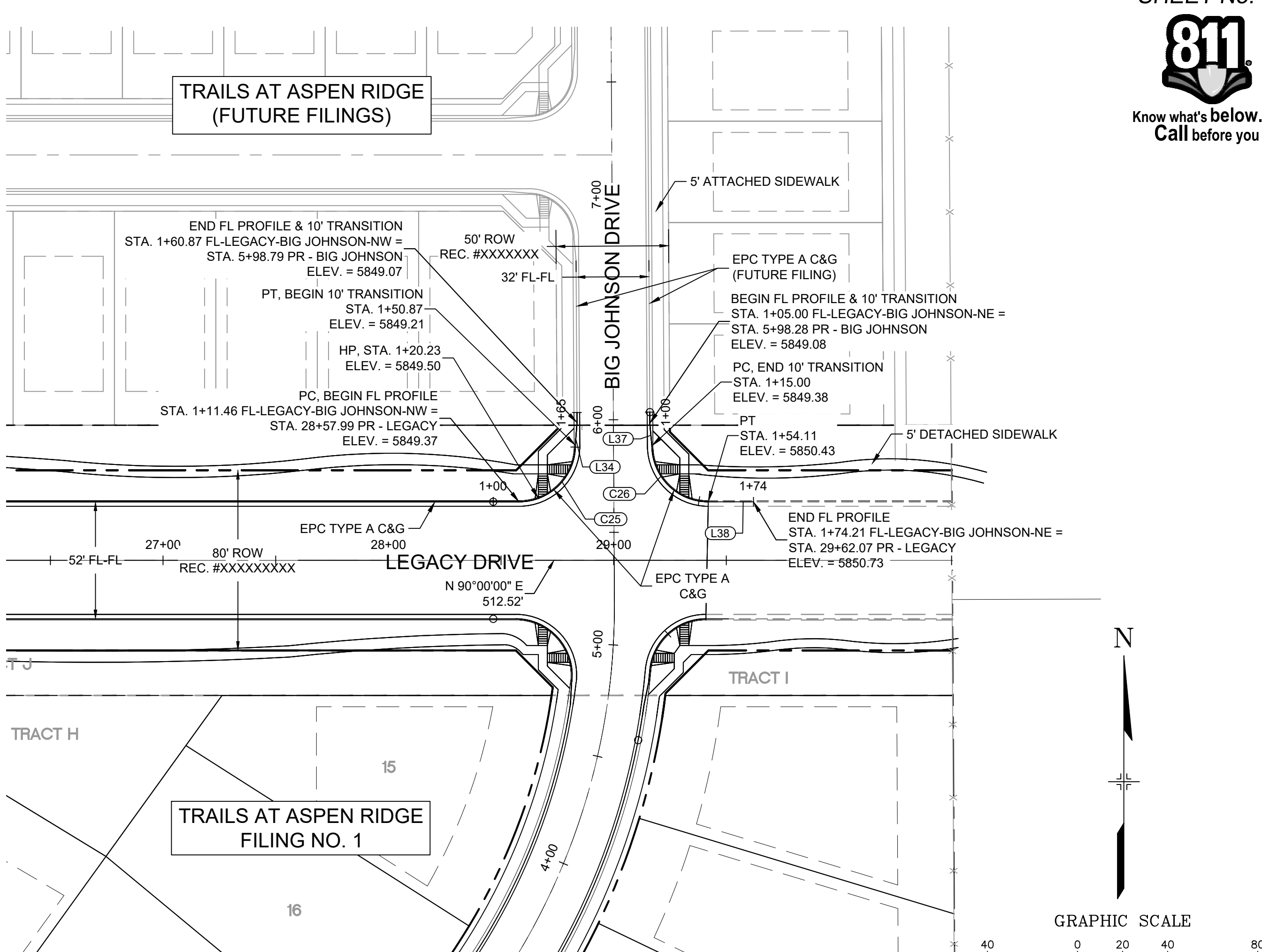
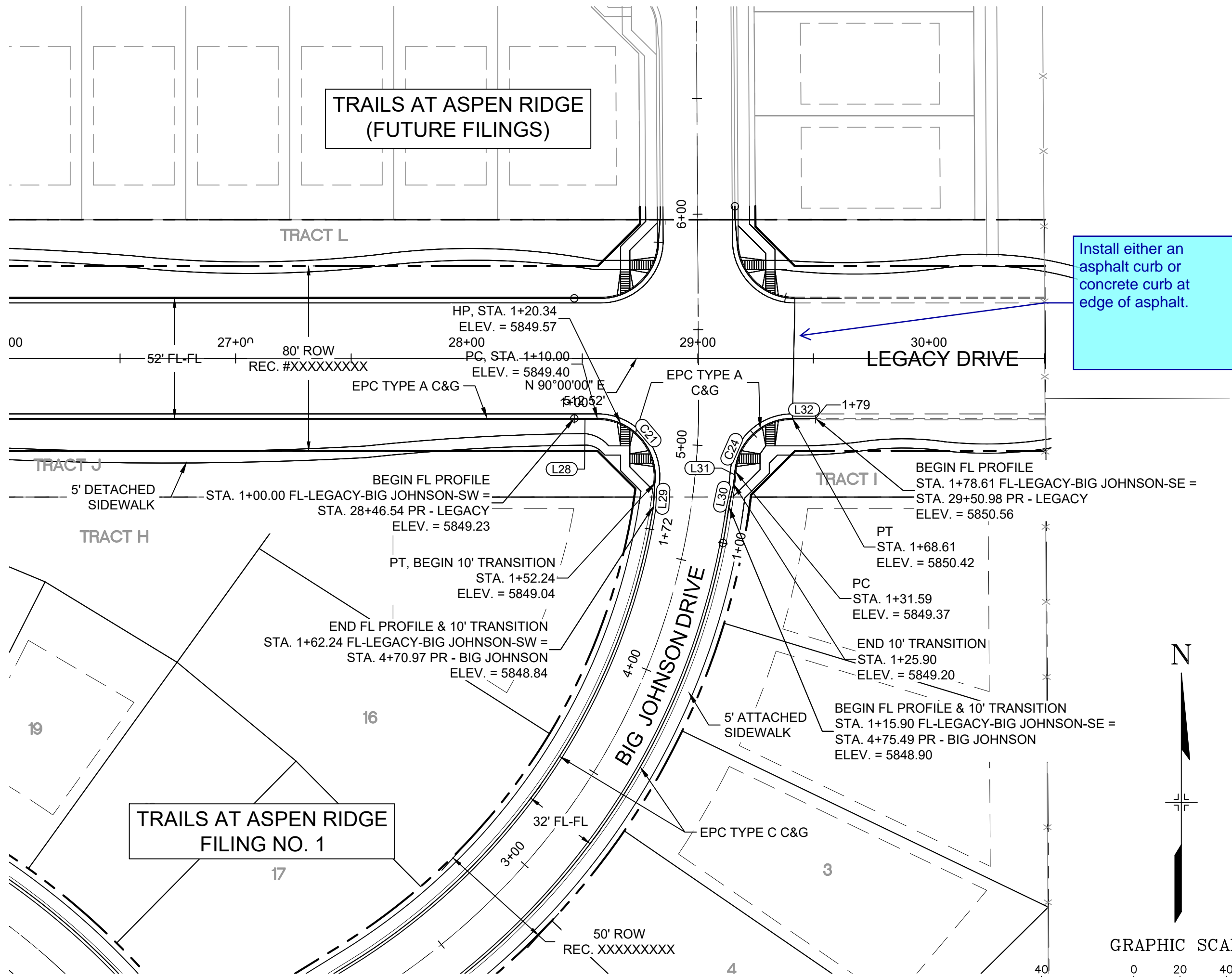
BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2' AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4' AULM. CAP PLS 10377)



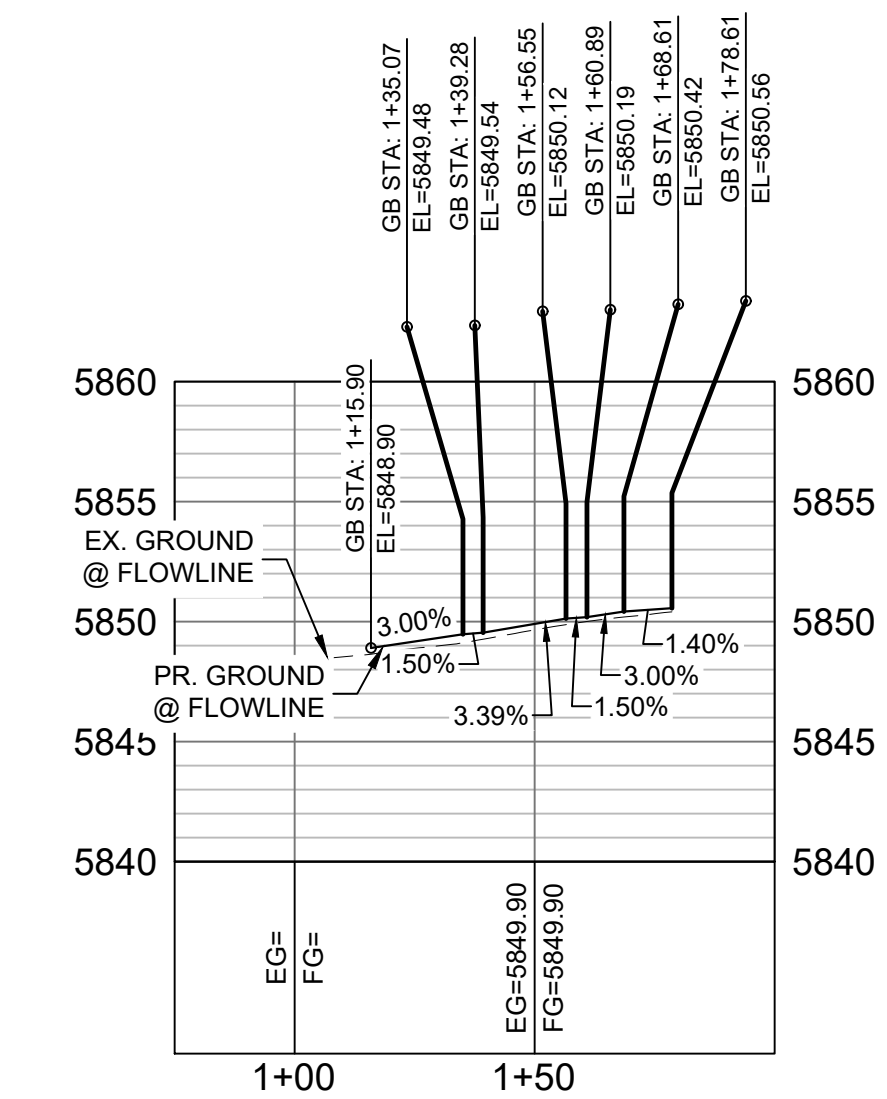
PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS			
CURB RETURN DETAILS LEGACY DRIVE & SUNDAY GULCH DRIVE			
DESIGNED BY: NMS	SCALE: HORIZ 1" = 40'	DATE ISSUED: JULY, 2019	DRAWING No. RD06-L
CHECKED BY: NMS	VERT. 1" = 8'	SHEET 12 OF 71	



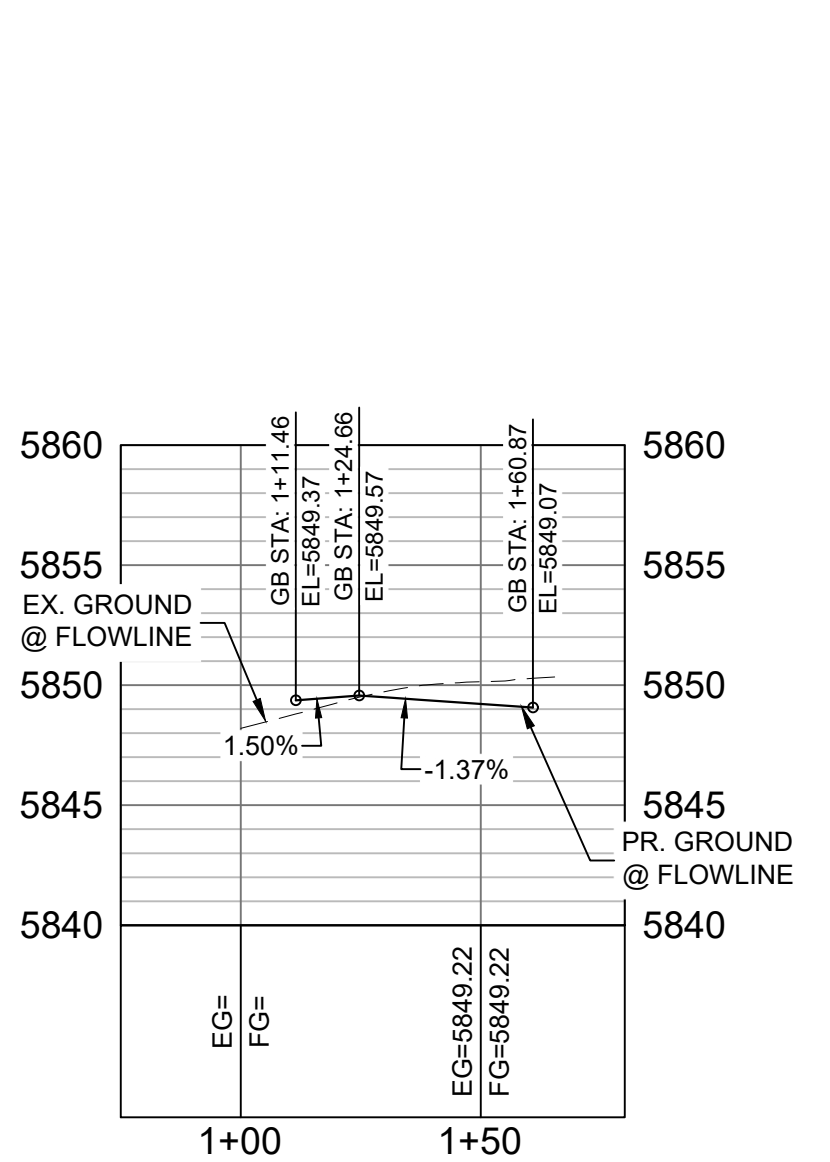
BIG JOHNSON SW FLOWLINE PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'



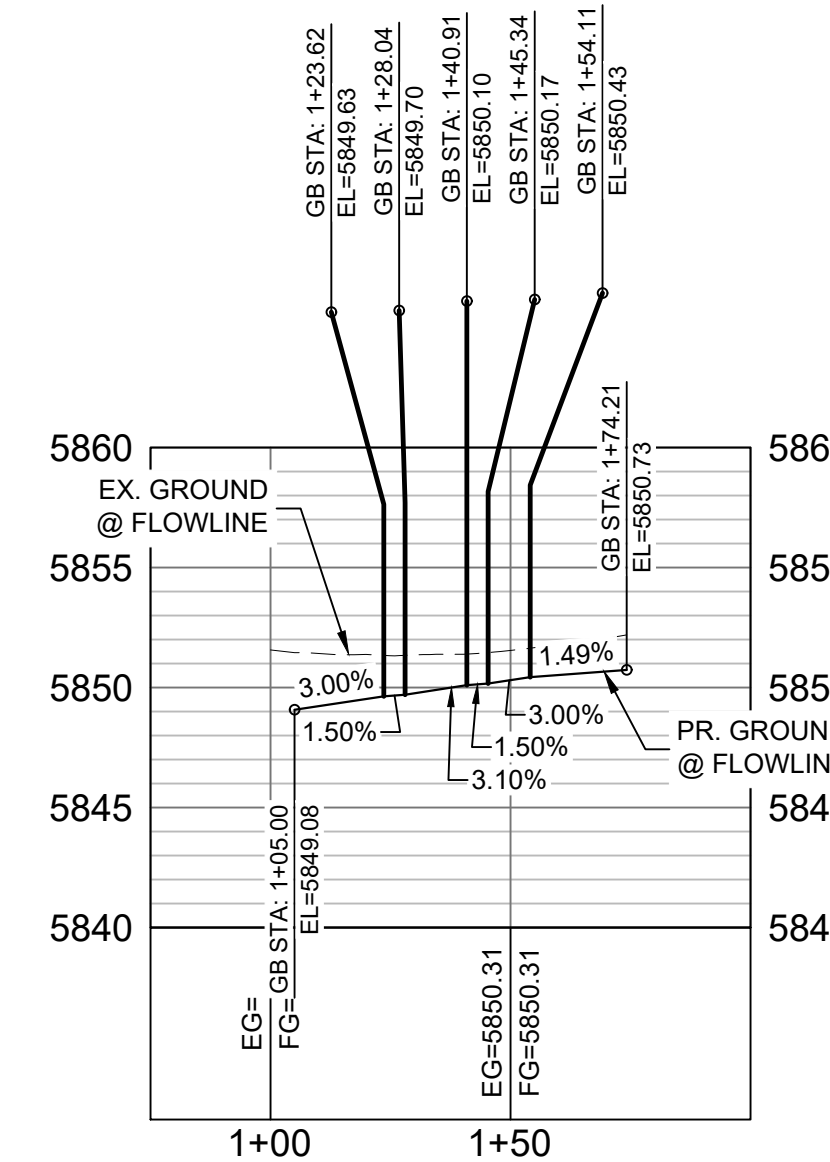
BIG JOHNSON SE FLOWLINE PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'

LINE TABLE		
LINE #	BEARING	DISTANCE
L28	N90°00'00"E	10.00
L29	S03°07'44"W	10.00
L30	N11°49'49"E	10.00
L31	N05°39'16"E	5.68
L32	N90°00'00"E	10.00

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	ANGLE
C21	42.24	25.00	96°48'18"
C24	37.03	25.00	84°51'32"



BIG JOHNSON NW FLOWLINE PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'

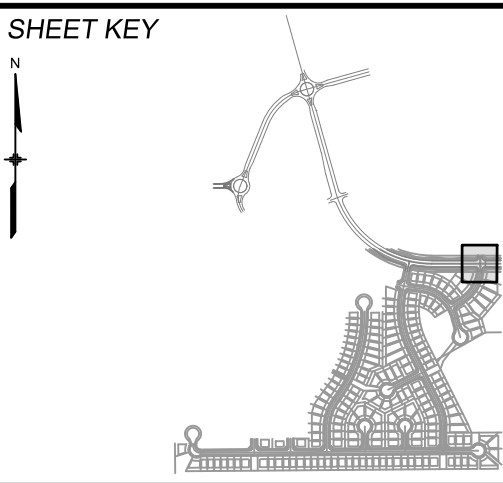


BIG JOHNSON NE FLOWLINE PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'

LINE TABLE		
LINE #	BEARING	DISTANCE
L34	N04°17'19"E	10.00
L37	S05°13'42"E	10.00
L38	N90°00'00"E	20.10

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	ANGLE
C25	39.41	25.00	90°19'32"
C26	39.11	25.00	89°38'00"

REFERENCE DRAWINGS			
No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD01-Legacy Road.dwg			
CTB FILE: ---			
PLOT DATE: July 2, 2019 1:22:52 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			



BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2' AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/2' AULM. CAP PLS 10377)



SEAL			
PRELIMINARY THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE			
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 19.886.011			

TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS			
CURB RETURN DETAIL LEGACY DRIVE & BIG JOHNSON DRIVE			
DESIGNED BY: NMS	SCALE: HORIZ 1" = 40'	DATE ISSUED: JULY, 2019	DRAWING No. RD07-L
CHECKED BY: NMS	VERT. 1" = 8'	SHEET 13 OF 71	

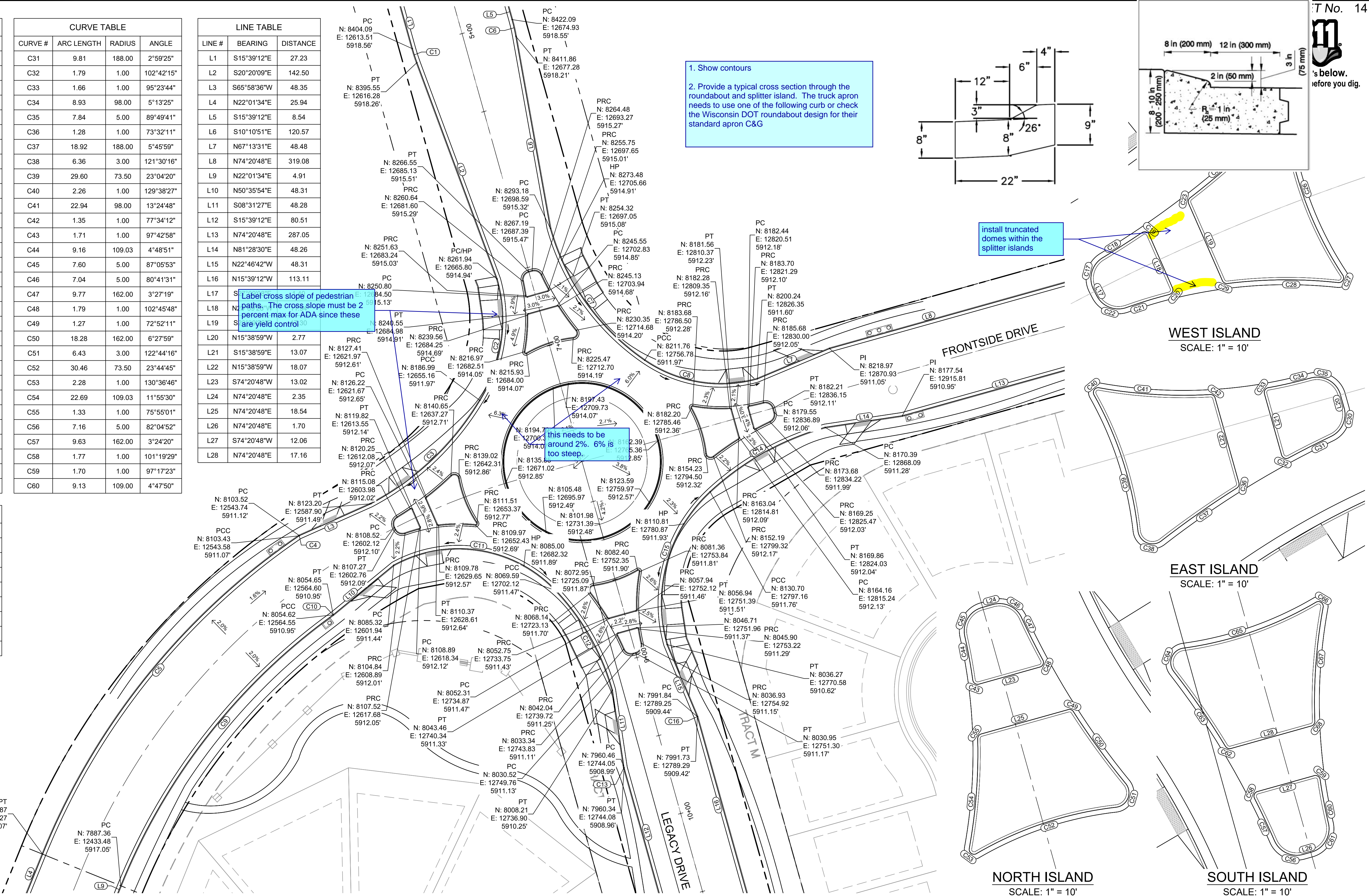
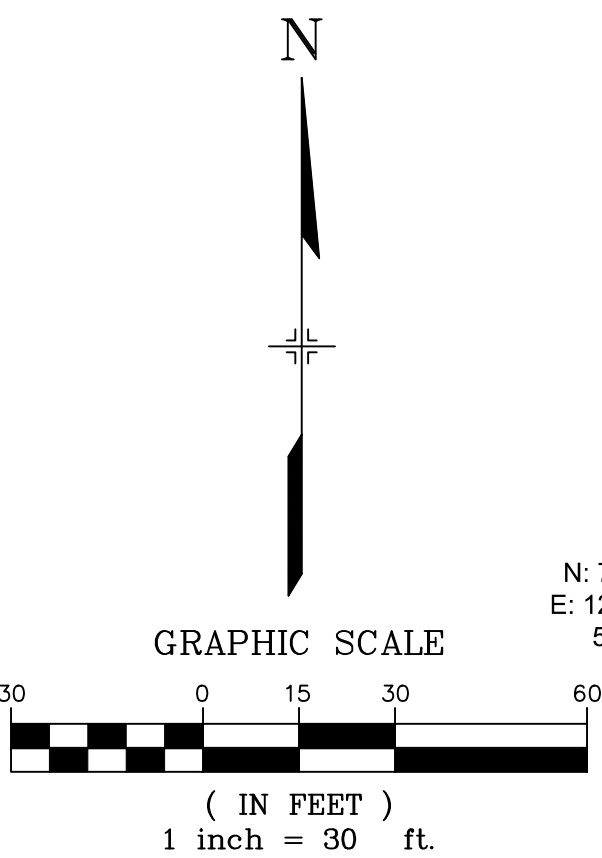


CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	ANGLE
C1	8.99	110.00	4°40'50"
C2	77.90	94.03	47°28'05"
C3	93.85	173.00	31°04'51"
C4	0.18	1.00	10°17'57"
C5	256.05	435.88	33°39'27"
C6	10.51	110.00	5°28'21"
C7	102.12	147.00	39°48'14"
C8	72.71	83.00	50°11'34"
C9	215.31	383.88	32°08'07"
C10	0.06	1.00	3°33'22"
C11	109.10	83.00	75°18'40"
C12	71.24	147.00	27°46'02"
C13	0.12	1.00	7°07'45"
C14	82.04	173.00	27°10'12"
C15	103.09	94.00	62°50'01"
C16	0.12	1.00	7°07'30"
C17	7.51	5.00	86°02'01"
C18	9.61	188.00	2°55'40"
C19	1.75	1.00	100°23'21"
C20	1.73	1.00	99°23'07"
C21	9.19	98.00	5°22'18"
C22	7.20	5.00	82°29'29"
C23	1.32	1.00	75°53'16"
C24	20.24	188.00	6°10'08"
C25	6.48	3.00	123°40'20"
C26	29.85	73.50	23°16'15"
C27	2.26	1.00	129°44'29"
C28	22.83	98.00	13°20'43"
C29	1.28	1.00	73°29'02"
C30	7.01	5.00	80°17'10"

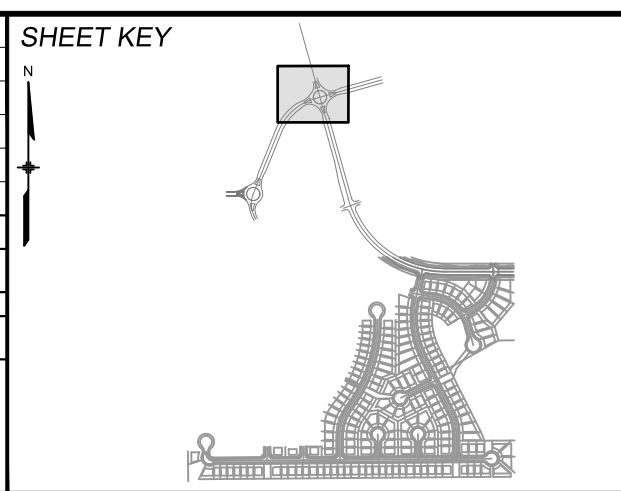
CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	ANGLE
C31	9.81	188.00	2°59'25"
C32	1.79	1.00	102°42'15"
C33	1.66	1.00	95°23'44"
C34	8.93	98.00	5°13'25"
C35	7.84	5.00	89°49'41"
C36	1.28	1.00	73°32'11"
C37	18.92	188.00	5°45'59"
C38	6.36	3.00	121°30'16"
C39	29.60	73.50	23°04'20"
C40	2.26	1.00	129°38'27"
C41	22.94	98.00	13°24'48"
C42	1.35	1.00	77°34'12"
C43	1.71	1.00	97°42'58"
C44	9.16	109.03	4°48'51"
C45	7.60	5.00	87°05'53"
C46	7.04	5.00	80°41'31"
C47	9.77	162.00	3°27'19"
C48	1.79	1.00	102°45'48"
C49	1.27	1.00	72°52'11"
C50	18.28	162.00	6°27'59"
C51	6.43	3.00	122°44'16"
C52	30.46	73.50	23°44'45"
C53	2.28	1.00	130°36'46"
C54	22.69	109.03	11°55'30"
C55	1.33	1.00	75°55'01"
C56	7.16	5.00	82°04'52"
C57	9.63	162.00	3°24'20"
C58	1.77	1.00	101°19'29"
C59	1.70	1.00	97°17'23"
C60	9.13	109.00	4°47'50"

LINE TABLE		
LINE #	BEARING	DISTANCE
L1	S15°39'12"E	27.23
L2	S20°20'09"E	142.50
L3	S65°58'36"W	48.35
L4	N22°01'34"E	25.94
L5	S15°39'12"E	8.54
L6	S10°10'51"E	120.57
L7	N67°13'31"E	48.48
L8	N74°20'48"E	319.08
L9	N22°01'34"E	4.91
L10	N50°35'54"E	48.31
L11	S08°31'27"E	48.28
L12	S15°39'12"E	80.51
L13	N74°20'48"E	287.05
L14	N81°28'30"E	48.26
L15	N22°46'42"W	48.31
L16	N15°39'12"W	113.11
L17	S15°38'59"W	2.77
L18	S15°38'59"E	13.07
L19	N15°38'59"W	18.07
L20	N15°38'59"W	13.02
L21	N15°38'59"W	2.35
L22	N74°20'48"E	18.54
L23	N74°20'48"E	1.70
L24	N74°20'48"W	12.06
L25	N74°20'48"E	17.16

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	ANGLE
C61	7.64	5.00	87°30'27"
C62	1.30	1.00	74°20'11"
C63	18.70	162.00	6°36'54"
C64	6.29	3.00	120°08'25"
C65	29.04	73.50	22°38'09"
C66	2.28	1.00	130°47'23"
C67	23.53	109.00	12°21'57"
C68	1.33	1.00	76°21'02"



REFERENCE DRAWINGS			
No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RND-01.dwg			
CTB FILE: ---			
PLOT DATE: July 2, 2019 1:26:56 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			



BENCHMARK
 COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
 A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX. LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
 ELEVATION - 5897.89' U.S. SURVEY FT

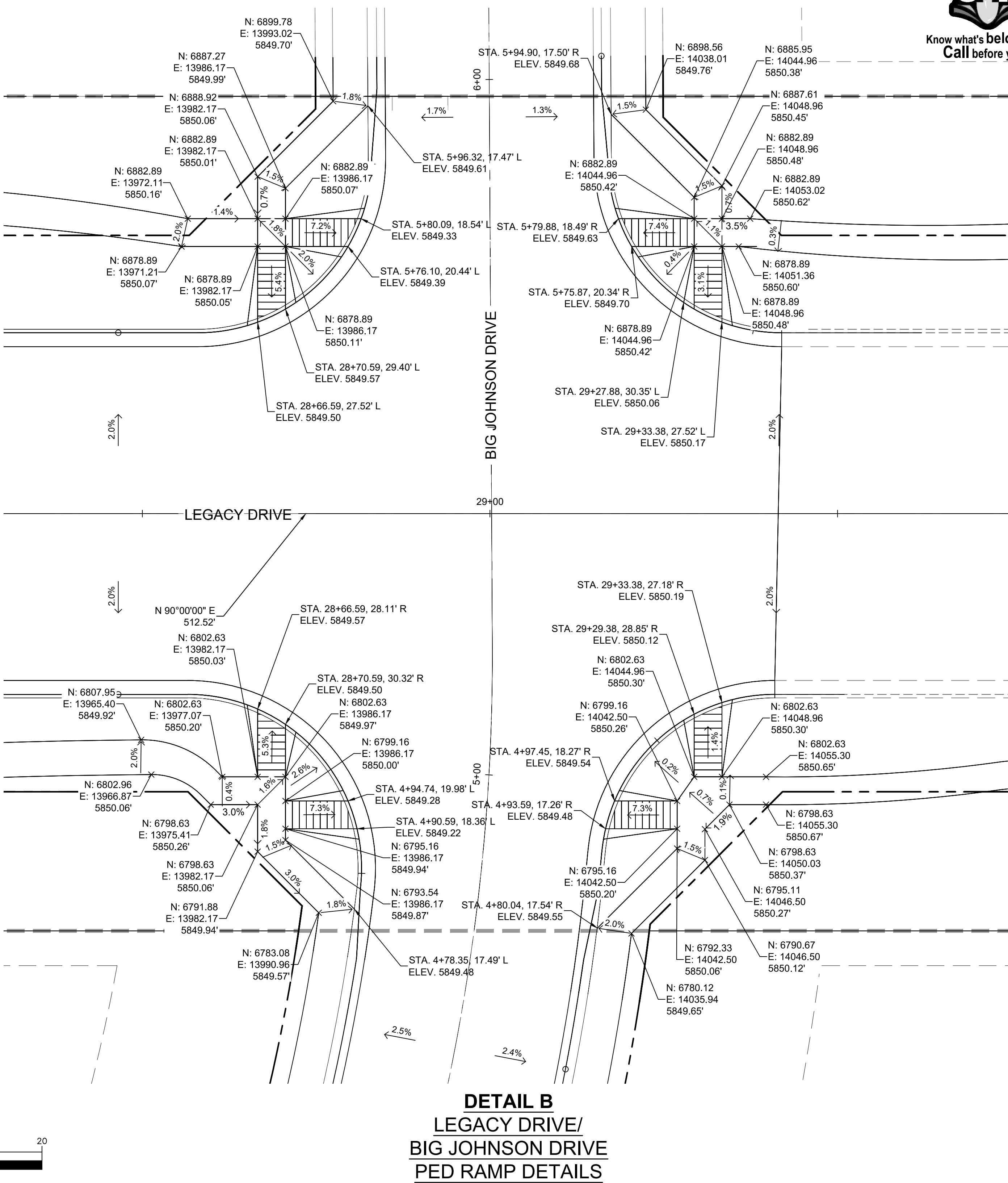
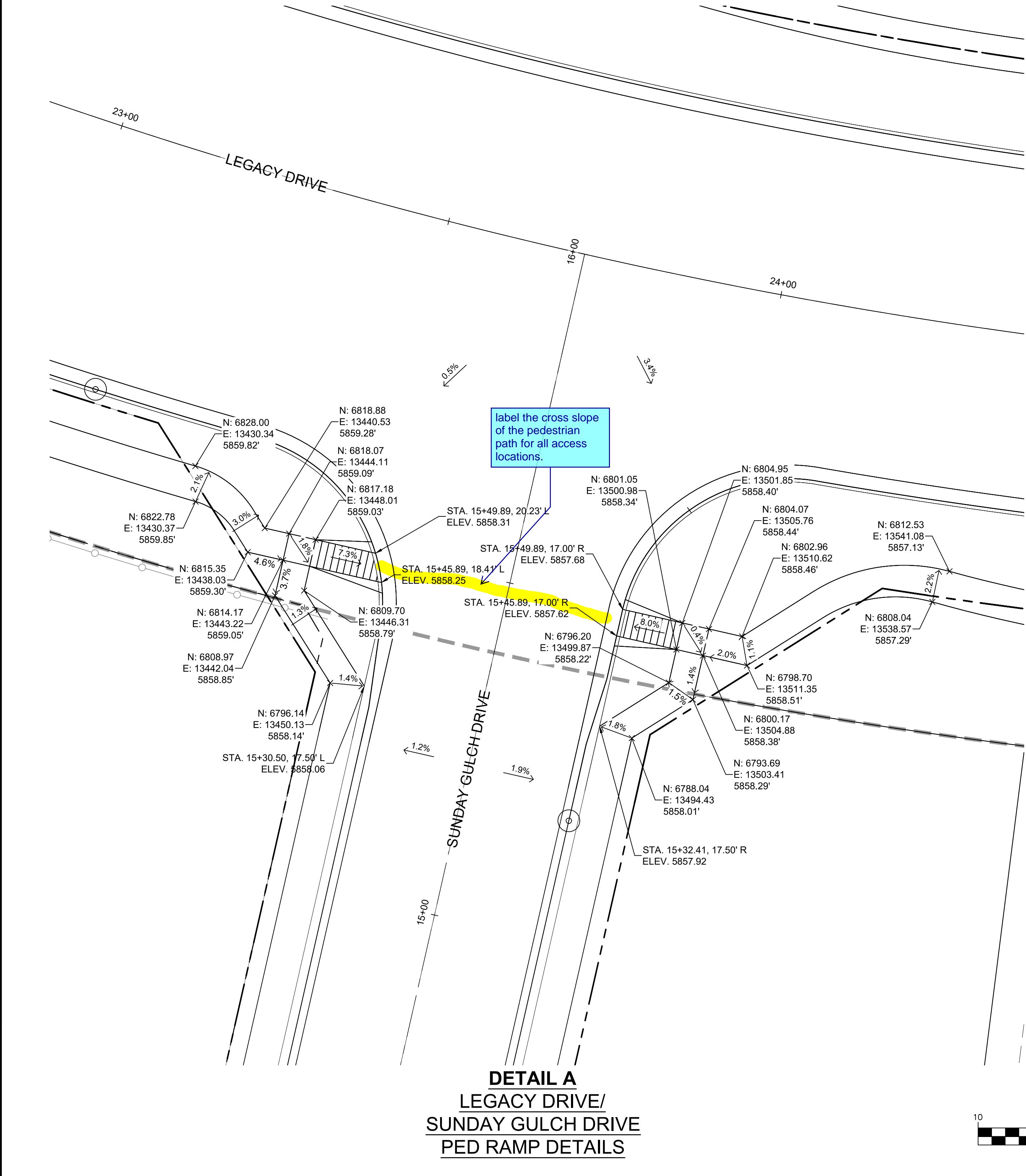
BASIS OF BEARING
 BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2' AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/2' AULM. CAP PLS 10377)



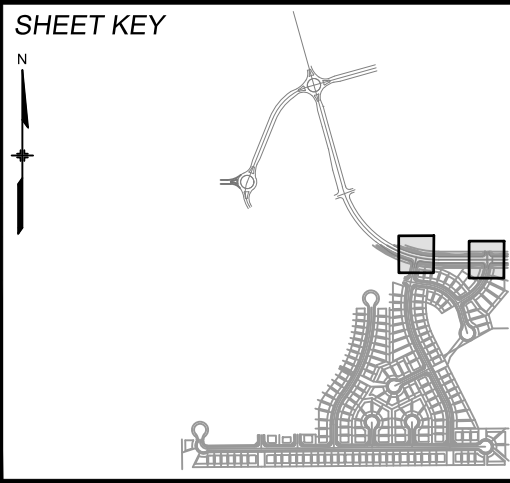
PRELIMINARY
 THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

FOR AND ON BEHALF OF
 MATRIX DESIGN GROUP, INC.
 PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS			
LEGACY ROAD ROUNDABOUT DETAILS			
DESIGNED BY: NMS	SCALE: 1" = 20'	DATE ISSUED: JULY, 2019	DRAWING No. RND01-L
DRAWN BY: TJC	HORIZ 1" = 20'	SHEET 14 OF 71	
CHECKED BY: NMS	VERT. N/A		



REFERENCE DRAWINGS			
No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD01-Legacy Road.dwg			
CTB FILE: ----			
PLOT DATE: July 2, 2019 1:28:13 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			



BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2' AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4' AULM. CAP PLS 10377)



SEAL

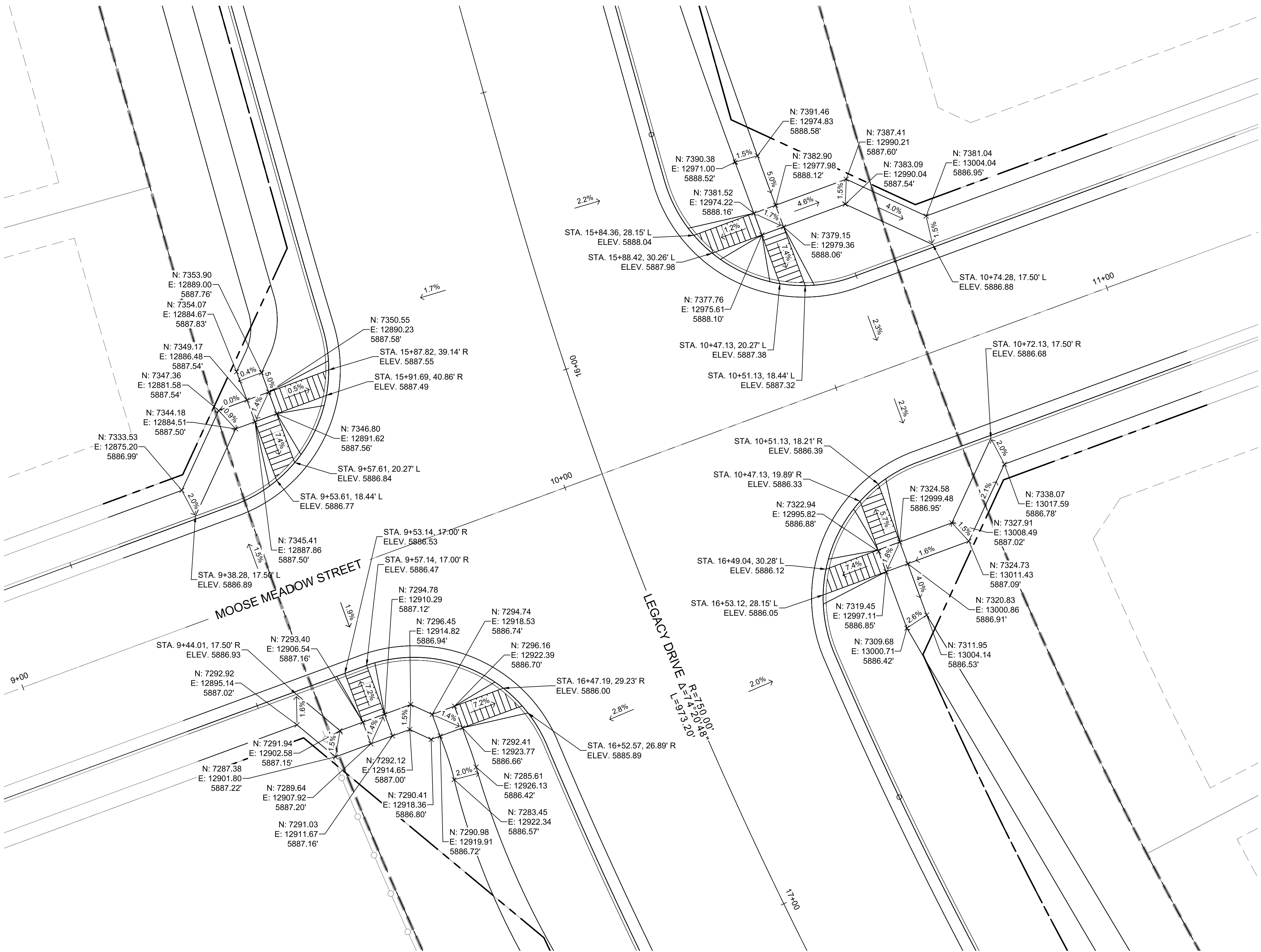
PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

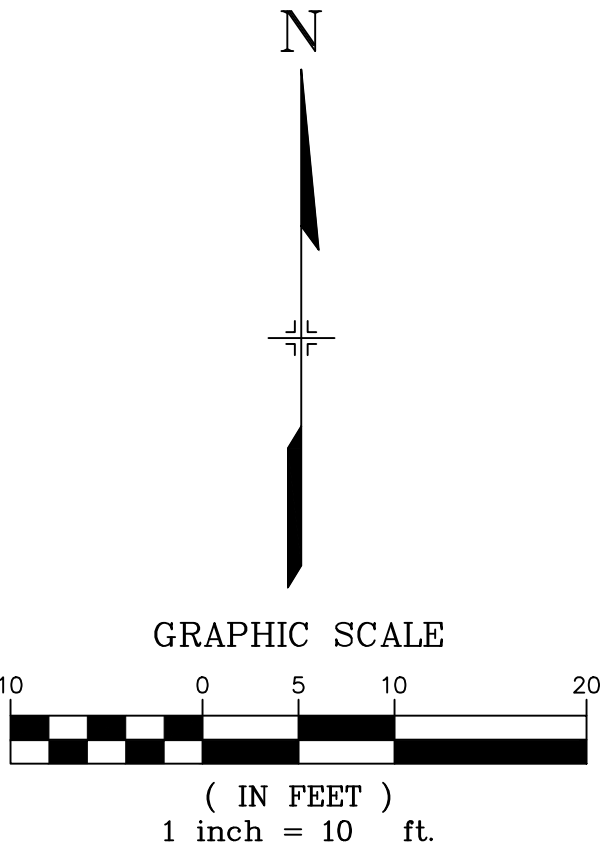
TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS			
INTERSECTION DETAIL SUNDAY GULCH DRIVE/BIG JOHNSON DRIVE			
DESIGNED BY: NMS	SCALE: HORIZ 1" = 10'	DATE ISSUED: JULY, 2019	DRAWING No. INT01-L
CHECKED BY: NMS	VERT. N/A	SHEET 15 OF 71	



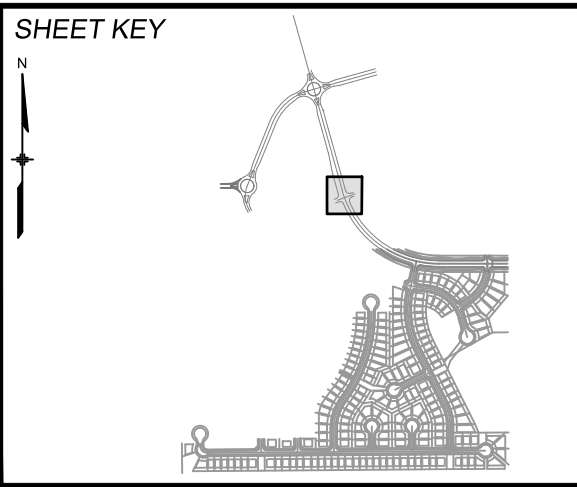
Know what's below.
Call before you dig.



DETAIL C
LEGACY DRIVE/
MOOSE MEADOW STREET
PED RAMP DETAILS



REFERENCE DRAWINGS			
No.	DATE	DESCRIPTION	BY
REVISIONS			
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD01-Legacy Road.dwg			
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PLOT DATE: July 2, 2019 1:28:20 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			



BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

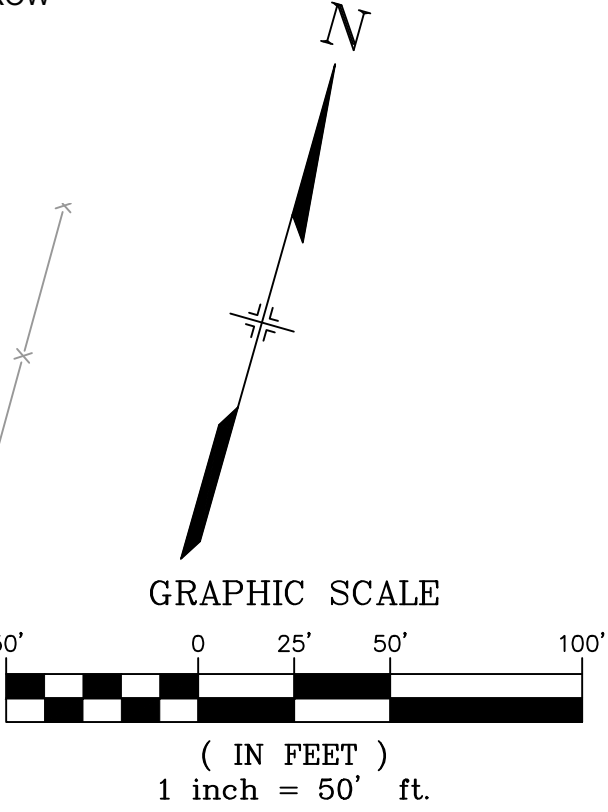
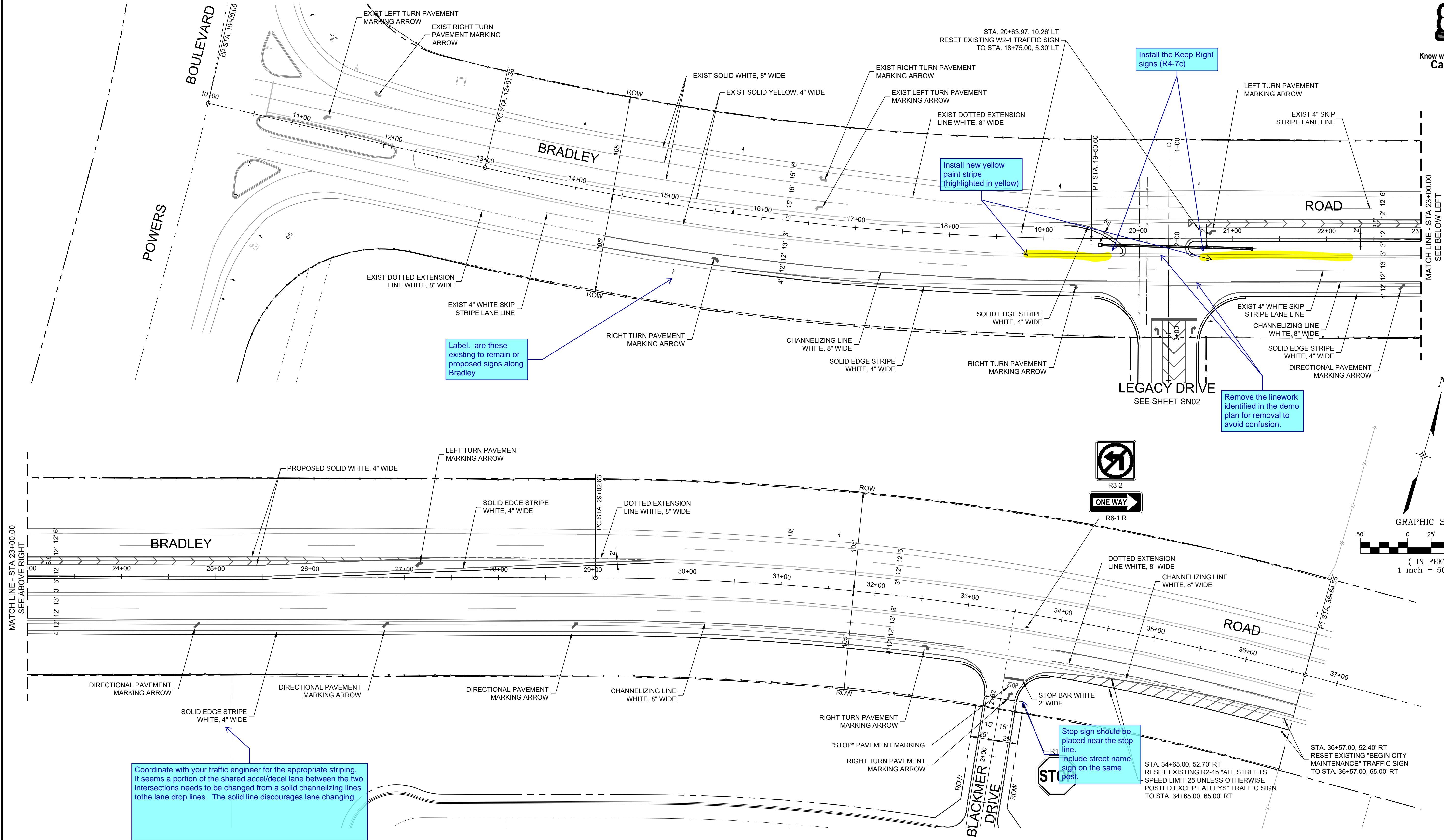
BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4" AULM. CAP PLS 10377)



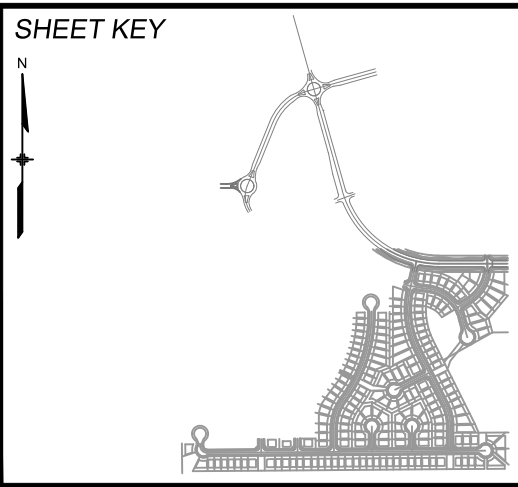
PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS			
INTERSECTION DETAIL MOOSE MEADOW DRIVE			
DESIGNED BY: NMS	SCALE: 1" = 10'	DATE ISSUED: JULY, 2019	DRAWING No. INT02-L
CHECKED BY: NMS	VERT. N/A	SHEET 16 OF 71	



REFERENCE DRAWINGS			
No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\SN01-Bradley-Legacy.dwg			
CTB FILE: ---			
PLOT DATE: July 2, 2019 1:28:45 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			



BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4" AULM. CAP PLS 10377)



SEAL

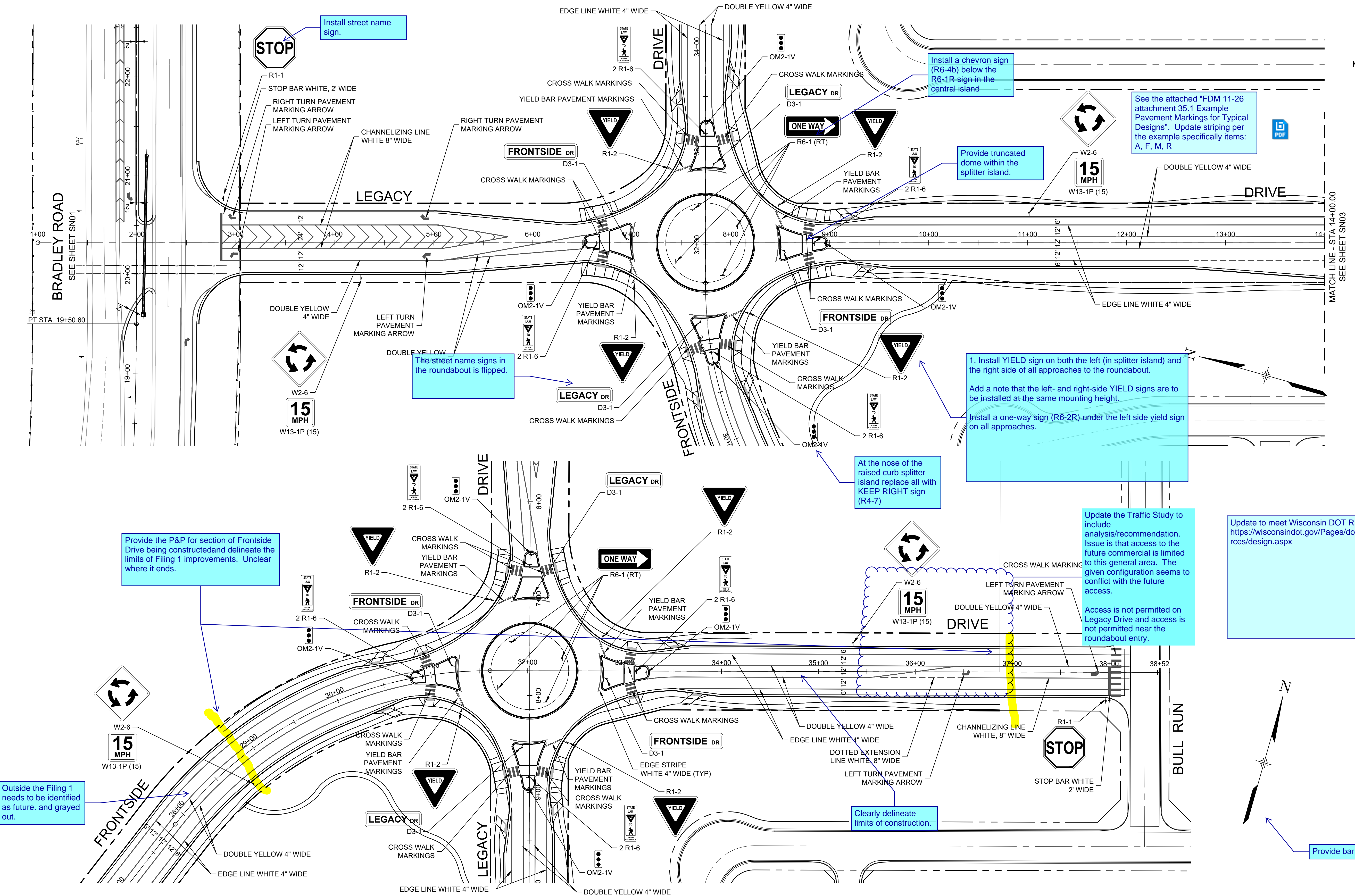
PRELIMINARY
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FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS			
BRADLEY ROAD SIGNING & STRIPING			
DESIGNED BY: NMS	SCALE: 1" = 50'	DATE ISSUED: JULY, 2019	DRAWING No.
CHECKED BY: NMS	VERT. N.A.	SHEET 17 OF 71	SN01-B



Know what's below.
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Provide the P&P for section of Frontside Drive being constructed and delineate the limits of Filing 1 improvements. Unclear where it ends.

Outside the Filing 1 needs to be identified as future, and grayed out.

The street name signs in the roundabout is flipped.

At the nose of the raised curb splitter island replace all with KEEP RIGHT sign (R4-7)

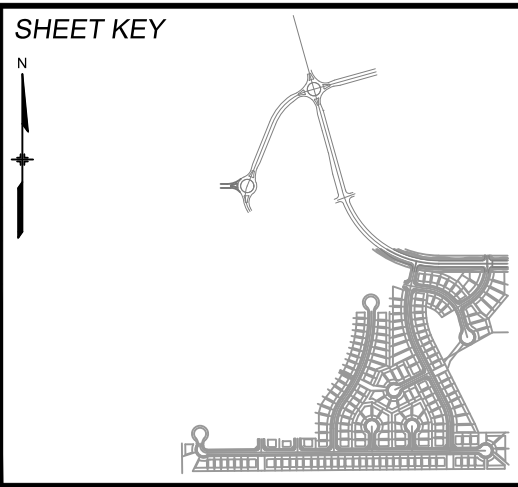
1. Install YIELD sign on both the left (in splitter island) and the right side of all approaches to the roundabout.
Add a note that the left- and right-side YIELD signs are to be installed at the same mounting height.
Install a one-way sign (R6-2R) under the left side yield sign on all approaches.

Update the Traffic Study to include analysis/recommendation. Issue is that access to the future commercial is limited to this general area. The given configuration seems to conflict with the future access.
Access is not permitted on Legacy Drive and access is not permitted near the roundabout entry.

Update to meet Wisconsin DOT Roundabout design <https://wisconsin.dot.gov/Pages/doing-business/eng-consultants/consulting-services/design.aspx>

Provide bar scale

REFERENCE DRAWINGS			
No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\SN01-Bradley-Legacy.dwg			
CTB FILE: ---			
PLOT DATE: July 2, 2019 1:28:49 PM			
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BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2' AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/2' AULM. CAP PLS 10377)



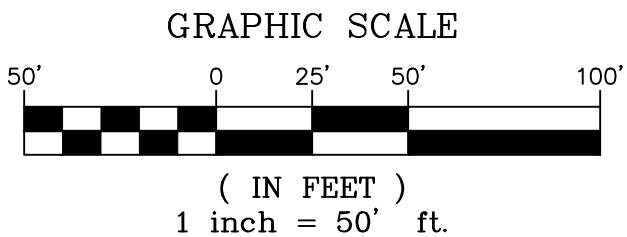
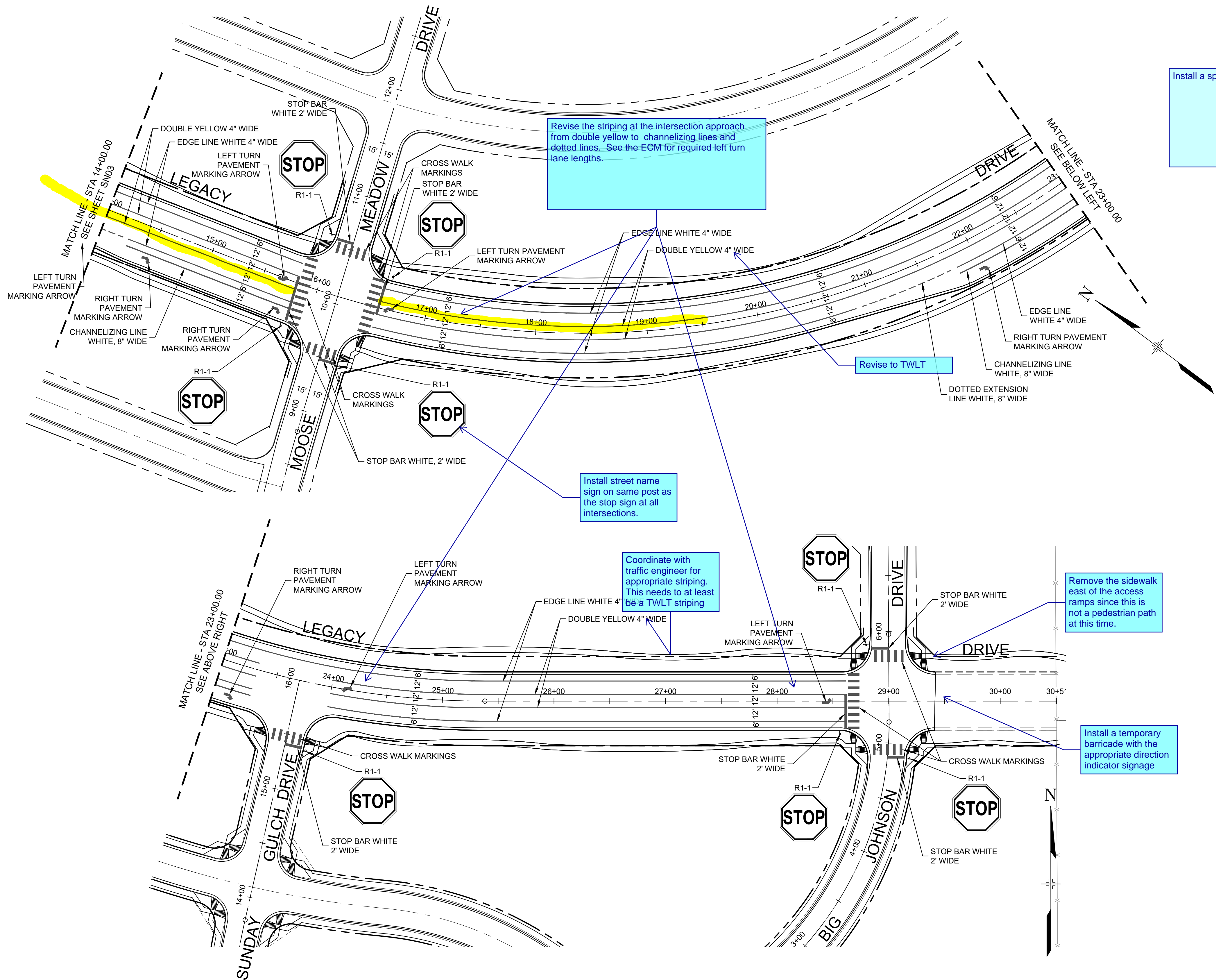
PRELIMINARY
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MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

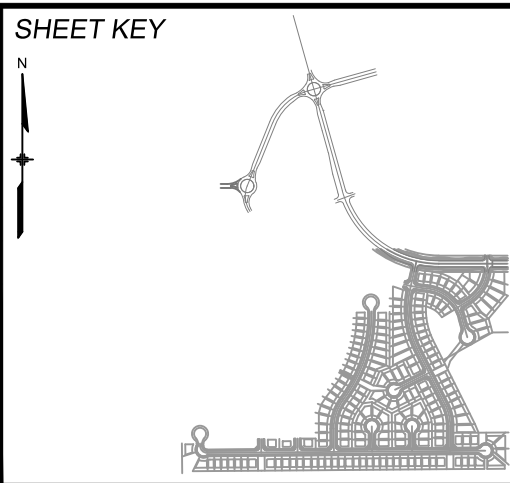
TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS			
LEGACY DRIVE SIGNING & STRIPING			
DESIGNED BY: NMS	SCALE: 1" = 50'	DATE ISSUED: JULY, 2019	DRAWING No.
CHECKED BY: NMS	VERT. N.A.	SHEET 18 OF 71	SN01-L



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REFERENCE DRAWINGS			
No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\SN01-Bradley-Legacy.dwg			
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PLOT DATE: July 2, 2019 1:28:54 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			



BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2' AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4' AULM. CAP PLS 10377)

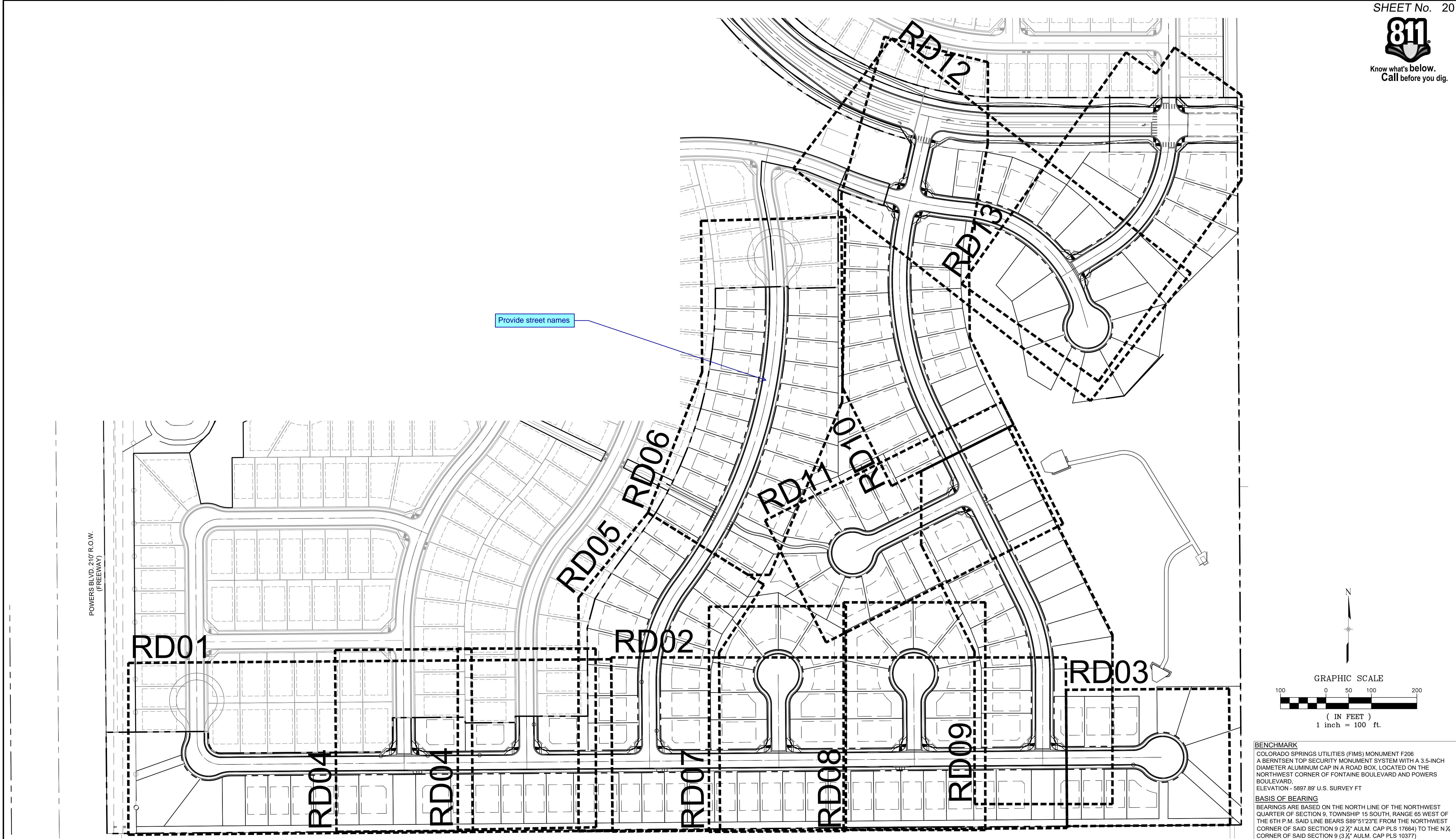


SEAL

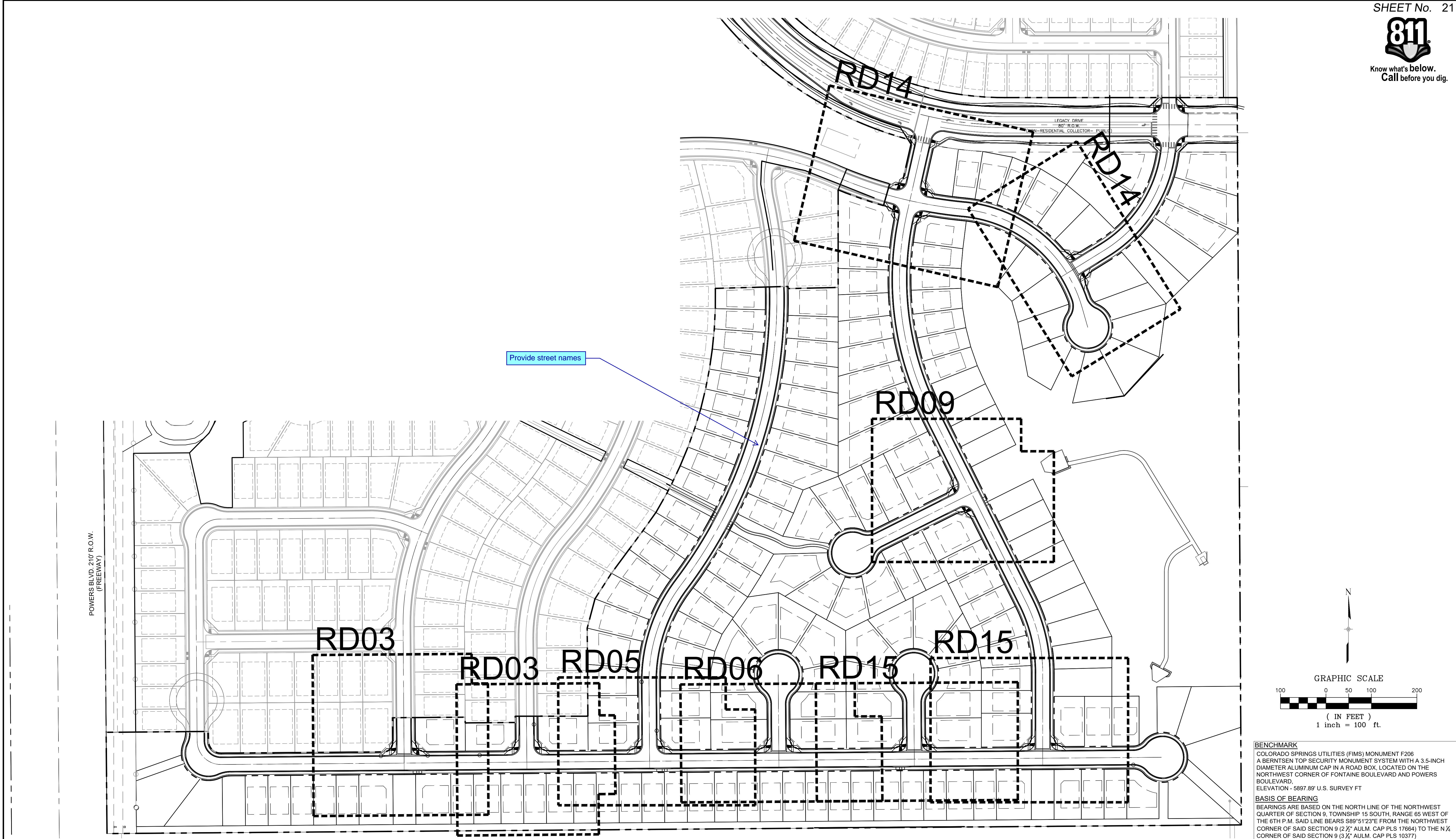
PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS			
LEGACY DRIVE SIGNING & STRIPING			
DESIGNED BY: NMS	SCALE: 1" = 50'	DATE ISSUED: JULY, 2019	DRAWING No.
DRAWN BY: TJC	HORIZ. N.A.	SHEET 19 OF 71	SN02-L
CHECKED BY: NMS	VERT. N.A.		



<div>FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD-MAP.dwg</div> <div>CTB FILE: ---</div> <div>PLOT DATE: July 2, 2019 2:06:40 PM</div> <div>THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.</div>		<div>DESIGN DATA:</div> <div>SIDEWALKS: WIDTH 5'</div> <div>LOCATION: ATTACHED <input checked="" type="checkbox"/> DETACHED <input type="checkbox"/></div> <div>DESIGN SPEED: 25 MPH</div> <div>CURB TYPE <input checked="" type="checkbox"/>A <input type="checkbox"/>B <input type="checkbox"/>C <input type="checkbox"/>D <input type="checkbox"/>E</div> <div>ROW WIDTH 50' FL-FL 32'</div> <div>STREET TYPE RESIDENTIAL</div> <div>PAVEMENT: TYPE: HMA <input type="checkbox"/> PCC <input type="checkbox"/></div> <div>THICKNESS: _____</div> <div>COMPOSITE SECTION: HMA _____ BASE _____</div>		<div>SHEET KEY</div> <div></div>		<div>REVIEW:</div> <div>STREET DESIGN: _____ DATE: _____</div> <div>CURB & GUTTER REVIEW _____ DATE: _____</div> <div>FINAL REVIEW _____ DATE: _____</div> <div>DRAINAGE DESIGN: _____ DATE: _____</div> <div>BY: _____</div> <div>TRAFFIC DESIGN: _____ DATE: _____</div> <div>BY: _____</div> <div>"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended."</div>		<div>PREPARED BY:</div> <div></div>		<div>SEAL</div> <div>FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 19.886.011</div>		<div>TRAILS AT ASPEN RIDGE</div> <div>FILING NO. 1</div> <div>ROADWAY & STORMDRAIN IMPROVEMENT PLANS</div> <div>KEY MAP</div> <div>INTERNAL ROADWAY PLAN & PROFILE SHEETS</div> <div>DESIGNED BY: NMS SCALE: DATE ISSUED: JULY, 2019 DRAWING No. MAP01</div> <div>DRAWN BY: TJC HORIZ 1"=40' SHEET 20 OF 71</div> <div>CHECKED BY: NMS VERT. 1"=8'</div>	
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BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH
DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE
NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS
BOULEVARD,
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST
QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF
THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST
CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4
CORNER OF SAID SECTION 9 (3 1/2" AULM. CAP PLS 10377)

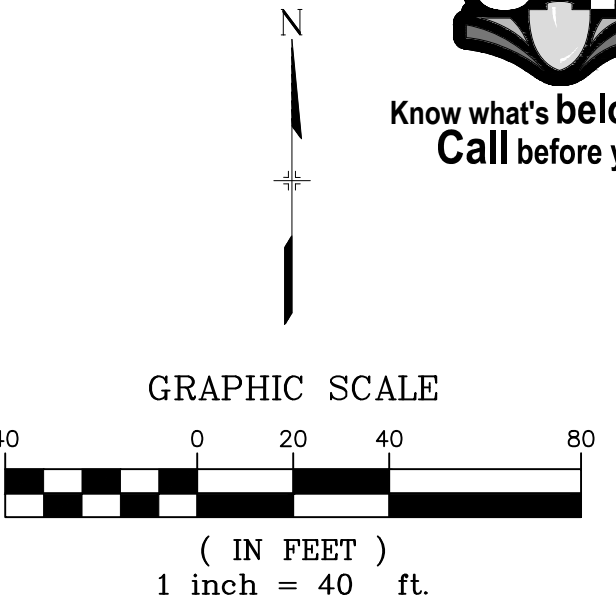
<table><tr><td>No.</td><td>DATE</td><td>DESCRIPTION</td><td>BY</td></tr><tr><td colspan="4">REVISIONS</td></tr><tr><td colspan="4">COMPUTER FILE MANAGEMENT</td></tr><tr><td colspan="4">FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD-MAP.dwg</td></tr><tr><td colspan="4">CTB FILE: ----</td></tr><tr><td colspan="4">PLOT DATE: July 2, 2019 2:06:56 PM</td></tr><tr><td colspan="4">THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.</td></tr></table>				No.	DATE	DESCRIPTION	BY	REVISIONS				COMPUTER FILE MANAGEMENT				FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD-MAP.dwg				CTB FILE: ----				PLOT DATE: July 2, 2019 2:06:56 PM				THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.				<p>DESIGN DATA:</p> <p>SIDEWALKS: WIDTH 5'</p> <p>LOCATION: ATTACHED <input checked="" type="checkbox"/> DETACHED <input checked="" type="checkbox"/></p> <p>DESIGN SPEED: 25 MPH</p> <p>CURB TYPE <input checked="" type="checkbox"/>A <input type="checkbox"/>B <input checked="" type="checkbox"/>C <input type="checkbox"/>D <input type="checkbox"/>E</p> <p>ROW WIDTH 50' FL-FL 32'</p> <p>STREET TYPE RESIDENTIAL</p> <p>PAVEMENT: TYPE: HMA <input type="checkbox"/> PCC <input type="checkbox"/></p> <p>THICKNESS: _____</p> <p>COMPOSITE SECTION: HMA _____ BASE _____</p> <p>Update per EPC standard Urban Local Cross Section. Using the optional type C FL-FL is 32.33'</p>		<p>SHEET KEY</p>		<p>REVIEW:</p> <p>STREET DESIGN: _____ DATE: _____</p> <p>CURB & GUTTER REVIEW _____ DATE: _____</p> <p>FINAL REVIEW _____ DATE: _____</p> <p>DRAINAGE DESIGN: _____ DATE: _____</p> <p>BY: _____</p> <p>TRAFFIC DESIGN: _____ DATE: _____</p> <p>BY: _____</p> <p>"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended."</p>		<p>PREPARED BY:</p> <p>Matrix DESIGN GROUP</p>		<p>SEAL</p> <p>FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 19.886.011</p>		<p>TRAILS AT ASPEN RIDGE</p> <p>FILING NO. 1 ROADWAY & STORMDRAIN IMPROVEMENT PLANS</p> <p>KEY MAP CURB RETURN FLOW LINE PROFILE SHEETS</p> <table><tr><td>DESIGNED BY: NMS</td><td>SCALE</td><td>DATE ISSUED:</td><td>JULY, 2019</td><td>DRAWING No.</td></tr><tr><td>DRAWN BY: TJC</td><td>HORIZ 1"=40'</td><td>SHEET</td><td>21 OF 71</td><td>MAP01</td></tr><tr><td>CHECKED BY: NMS</td><td>VERT. 1"=8'</td><td></td><td></td><td></td></tr></table>				DESIGNED BY: NMS	SCALE	DATE ISSUED:	JULY, 2019	DRAWING No.	DRAWN BY: TJC	HORIZ 1"=40'	SHEET	21 OF 71	MAP01	CHECKED BY: NMS	VERT. 1"=8'			
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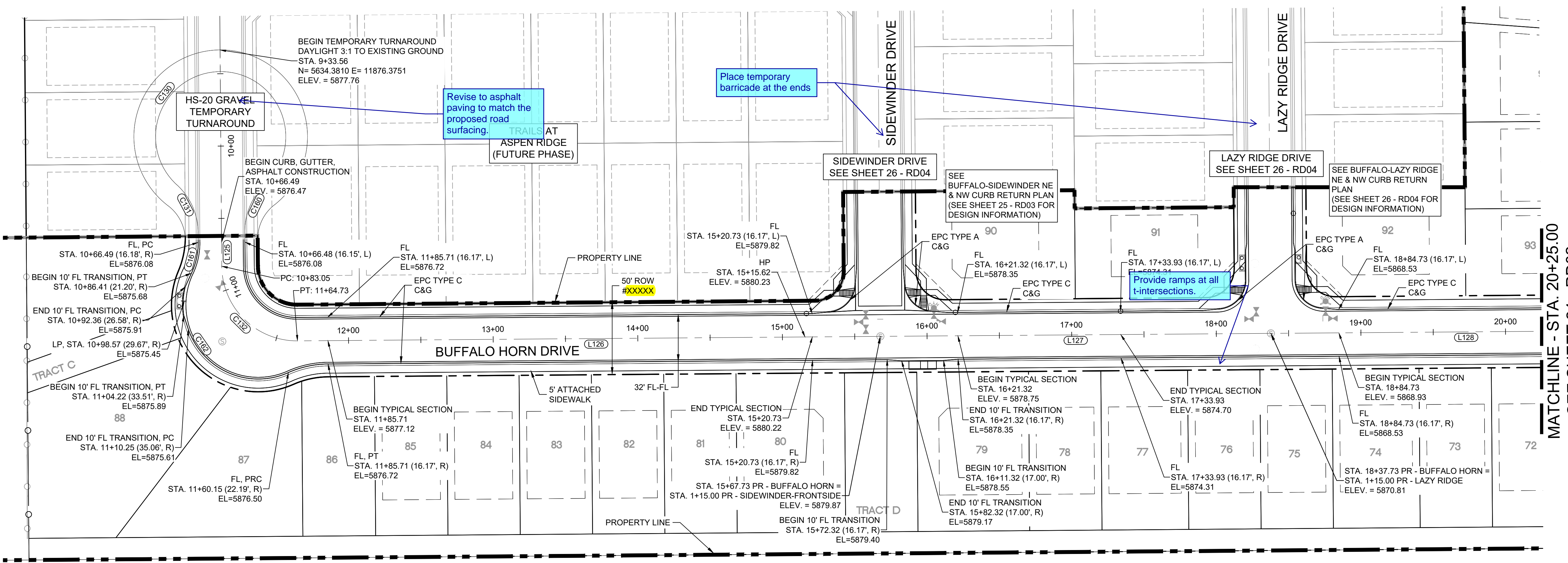


Know what's below.
Call before you dig.



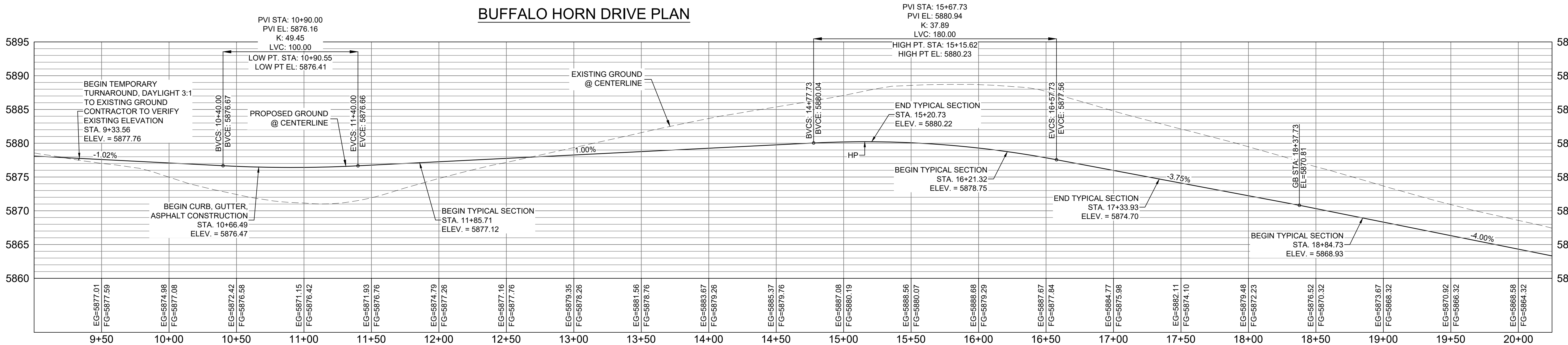
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L126	N89°33'35"E	403.00
L127	N89°33'35"E	270.00
L128	N89°33'35"E	270.00

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C130	215.49	45.00	274°22'14"
C131	37.06	45.00	47°11'07"
C132	81.68	52.00	89°59'53"
C160	37.06	45.00	47°11'07"
C161	22.03	48.83	25°50'31"
C162	124.45	51.17	139°21'09"



MATCHLINE - STA. 20+25.00
SEE SHEET 24 - RD02

BUFFALO HORN DRIVE PLAN



MATCHLINE - STA. 20+25.00
SEE SHEET 24 - RD02

BUFFALO HORN DRIVE CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH
DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE
NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS
BOULEVARD,
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST
QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF
THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST
CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4
CORNER OF SAID SECTION 9 (3 1/2" AULM. CAP PLS 10377)

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
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CTB FILE: COMM-TECH_D-SIZE_BW.ctb			
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THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

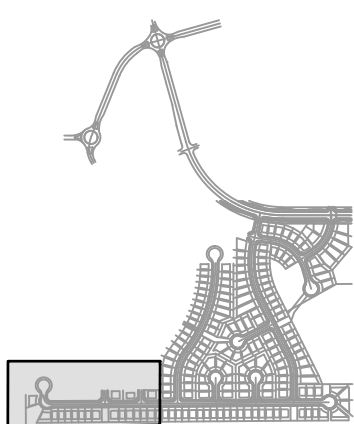
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SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒ DETACHED ☐
DESIGN SPEED: 25 MPH
CURB TYPE ☒ A ☐ B ☐ C ☐ D ☐ E
ROW WIDTH 50' FL-FL 32'
STREET TYPE RESIDENTIAL

PAVEMENT:
TYPE: HMA ☐ PCC ☐
THICKNESS: _____

COMPOSITE SECTION:
HMA _____ BASE _____

SHEET KEY



REVIEW:

STREET DESIGN:
CURB & GUTTER REVIEW _____ DATE: _____
FINAL REVIEW _____ DATE: _____
DRAINAGE DESIGN:
BY: _____ DATE: _____
TRAFFIC DESIGN:
BY: _____ DATE: _____

"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:



SEAL

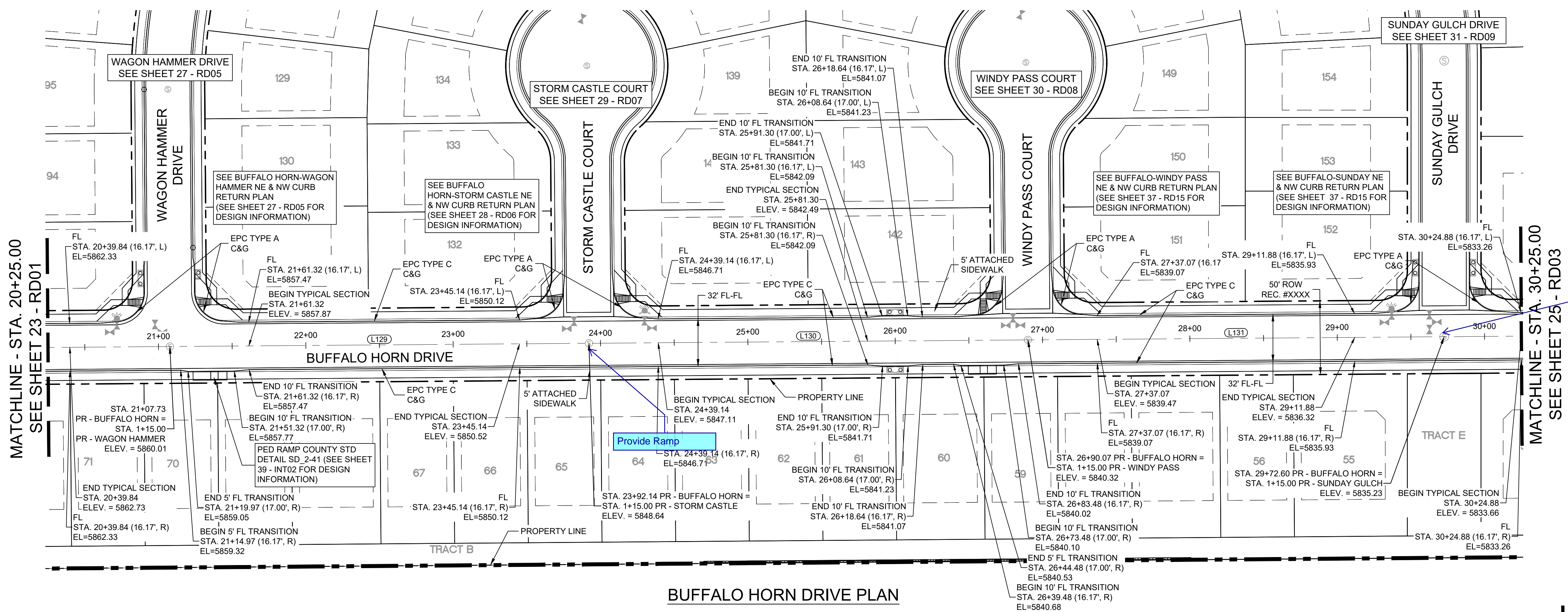
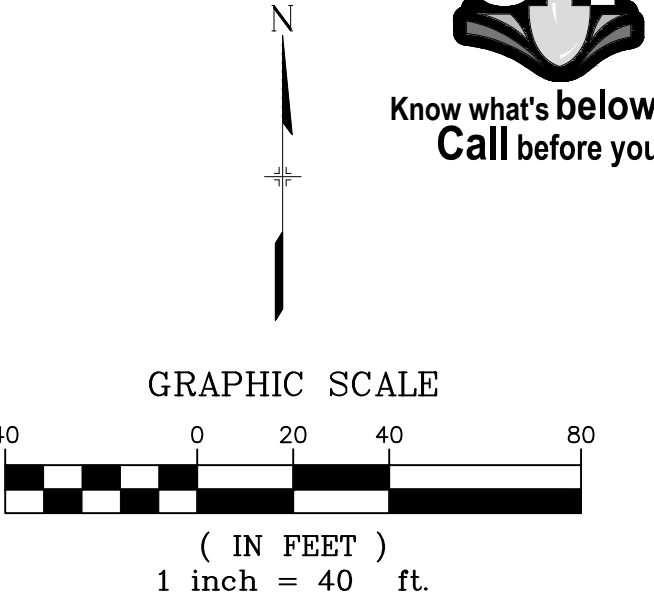
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

ROADWAY PLAN & PROFILE

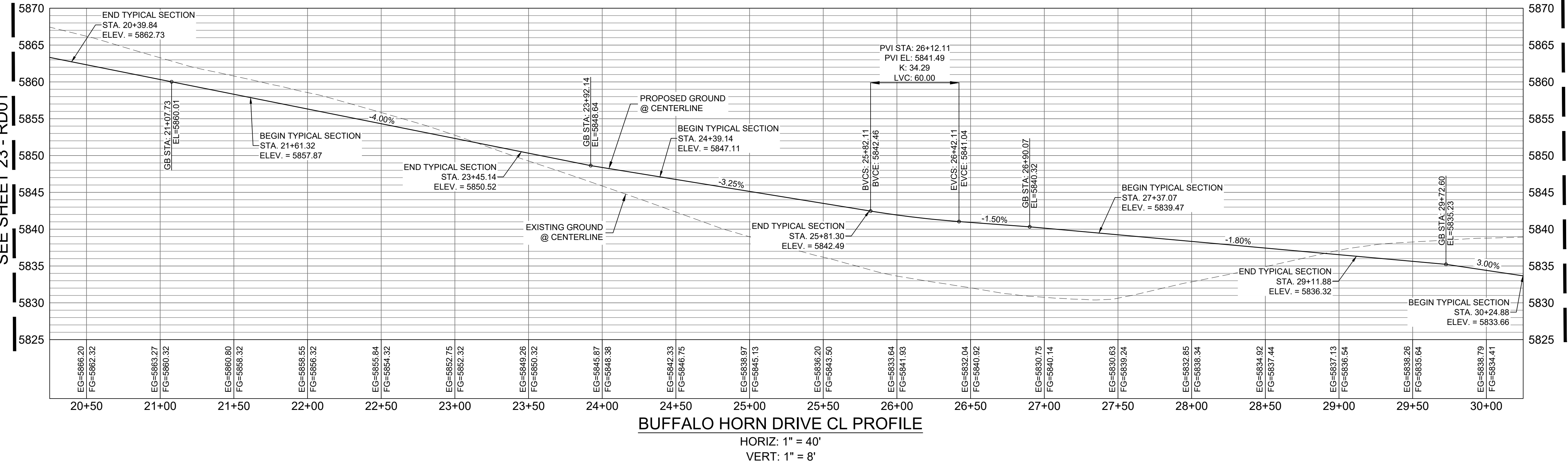
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DRAWN BY: TJC	HORIZ: 1"=40'		
CHECKED BY: NMS	VERT: 1"=8'	SHEET 23 OF 71	



LINE TABLE		
LINE #	BEARING	DISTANCE
L129	N89°33'35"E	284.41
L130	N89°33'35"E	297.94
L131	N89°33'35"E	282.52

MATCHLINE - STA. 20+25.00
SEE SHEET 23 - RD01

MATCHLINE - STA. 30+25.00
SEE SHEET 25 - RD03

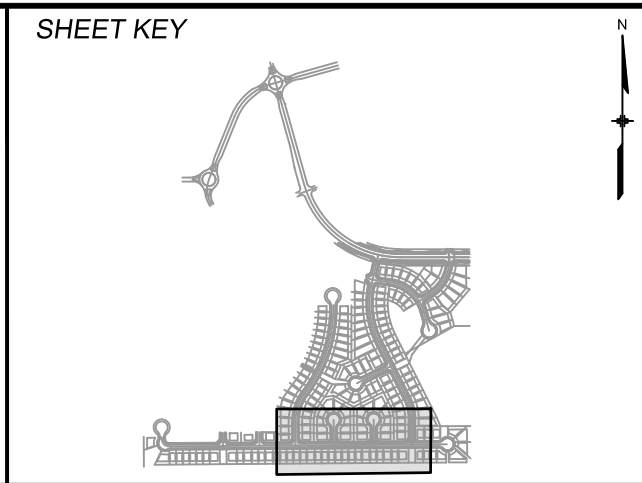


BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH
DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE
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ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
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QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF
THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST
CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4
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No.	DATE	DESCRIPTION	BY
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CTB FILE: COMM-TECH_D-SIZE_BW.ctb			
PLOT DATE: July 2, 2019 2:09:00 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

DESIGN DATA:	
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LOCATION: ATTACHED <input checked="" type="checkbox"/> DETACHED <input type="checkbox"/>	THICKNESS:
DESIGN SPEED: 25 MPH	
CURB TYPE <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E	COMPOSITE SECTION: HMA <input type="checkbox"/> BASE <input type="checkbox"/>
ROW WIDTH 50' FL-FL 32'	
STREET TYPE RESIDENTIAL	



REVIEW:	
STREET DESIGN:	
CURB & GUTTER REVIEW	DATE: _____
FINAL REVIEW	DATE: _____
DRAINAGE DESIGN:	DATE: _____
BY: _____	
TRAFFIC DESIGN:	DATE: _____
BY: _____	
"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended."	

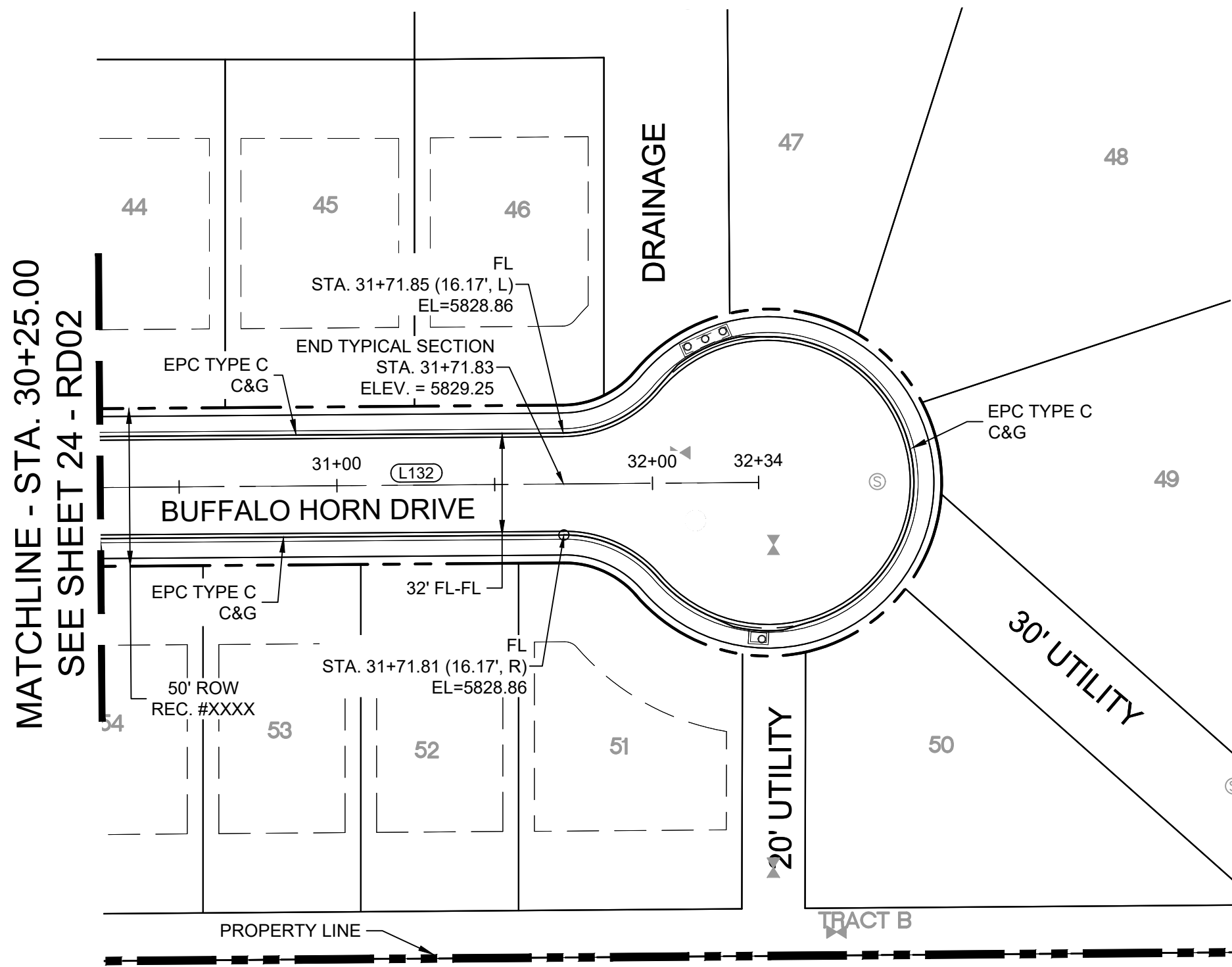


FOR AND ON BEHALF OF	
MATRIX DESIGN GROUP, INC.	
PROJECT No. 19.886.011	

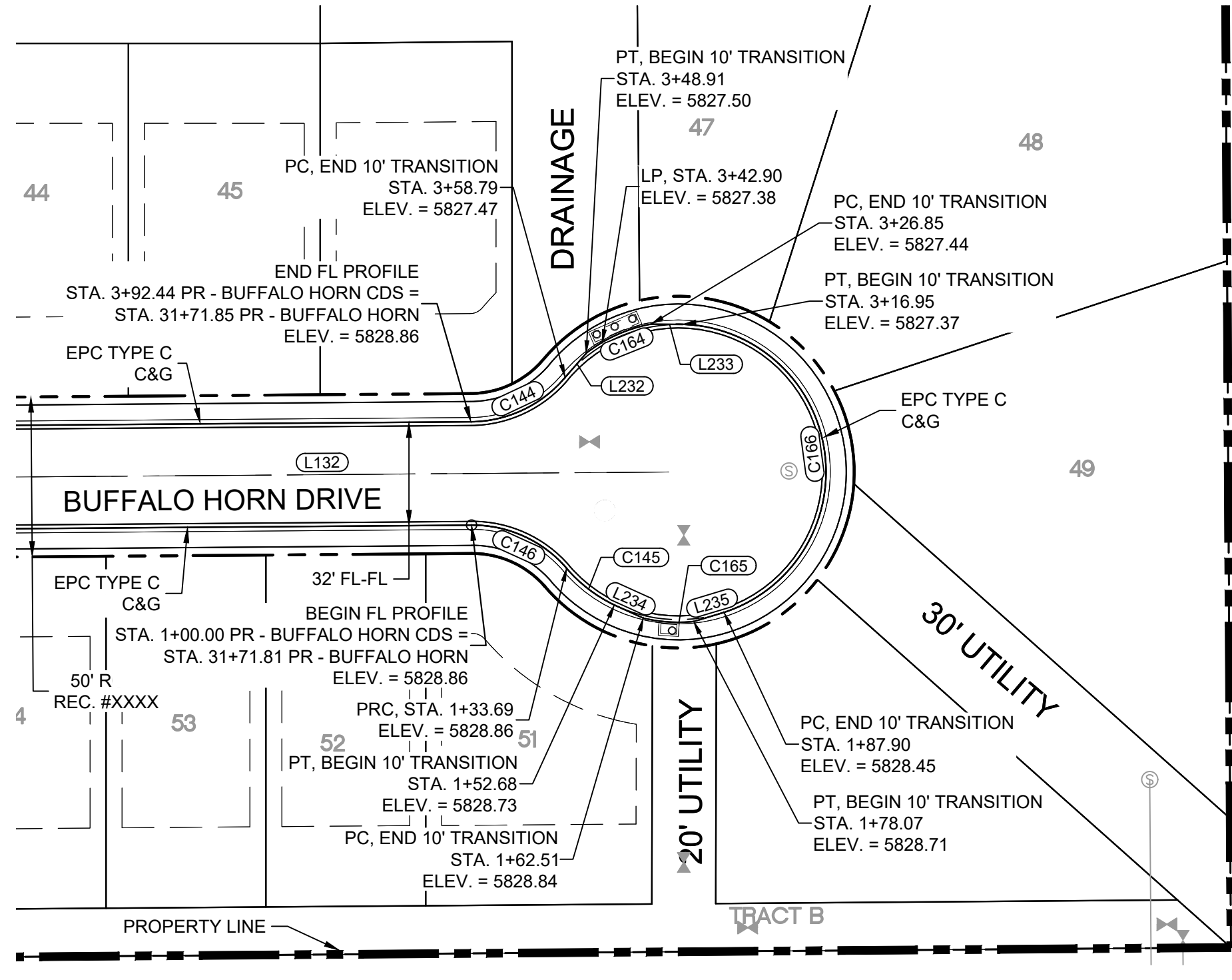
TRAILS AT ASPEN RIDGE			
FILING NO. 1			
ROADWAY & STORMDRAIN IMPROVEMENT PLANS			
ROADWAY PLAN & PROFILE			
DESIGNED BY: NMS	SCALE: 1"=40'	DATE ISSUED: JULY, 2019	DRAWING No. RD02
CHECKED BY: NMS	VERT. 1"=8'	SHEET 24 OF 71	



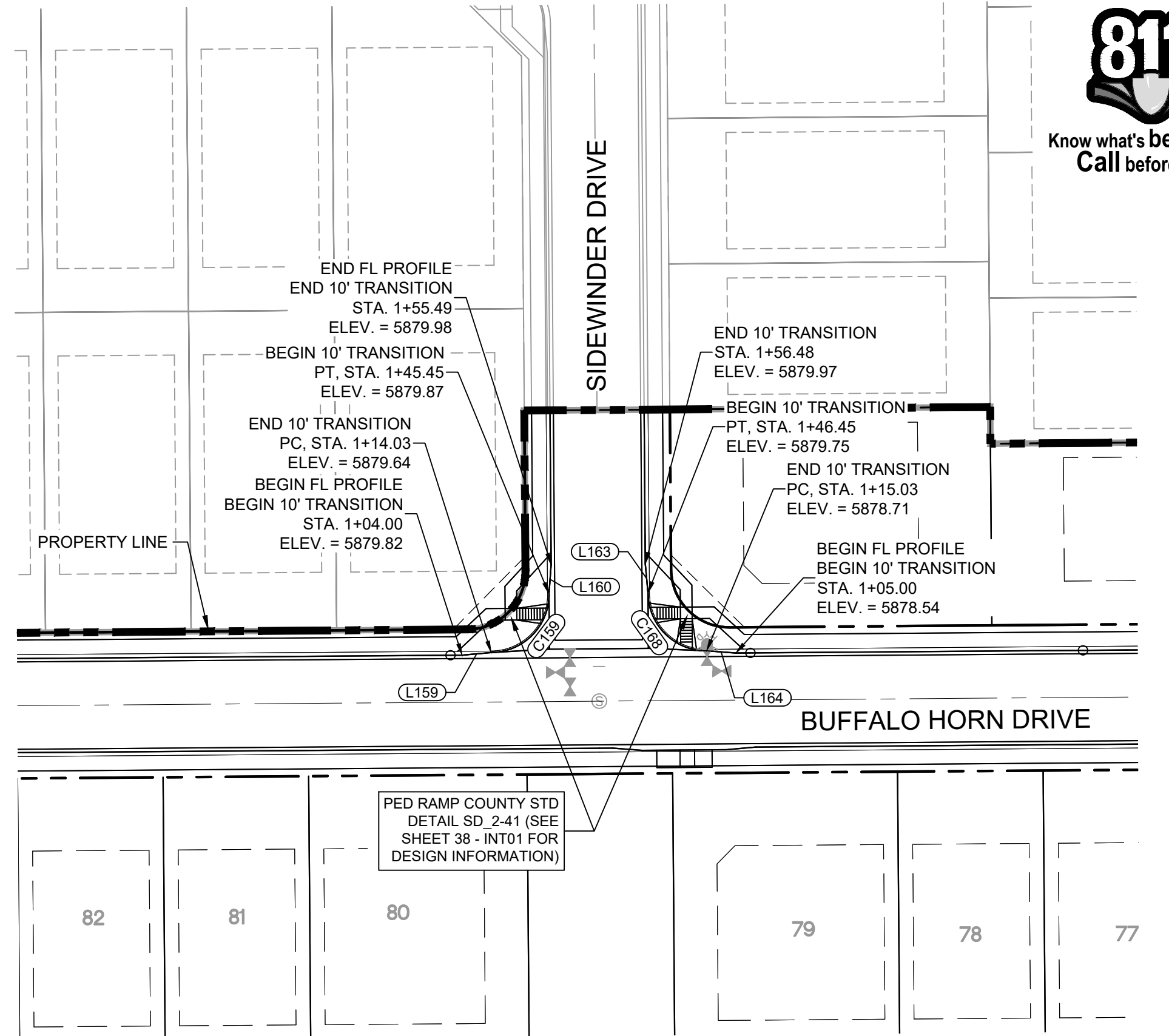
Know what's below.
Call before you dig.



BUFFALO HORN DRIVE PLAN



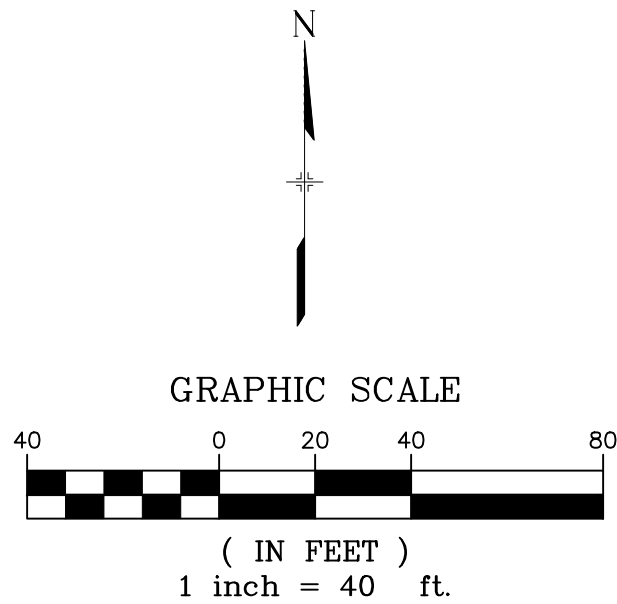
BUFFALO HORN DRIVE CDS FL PLAN



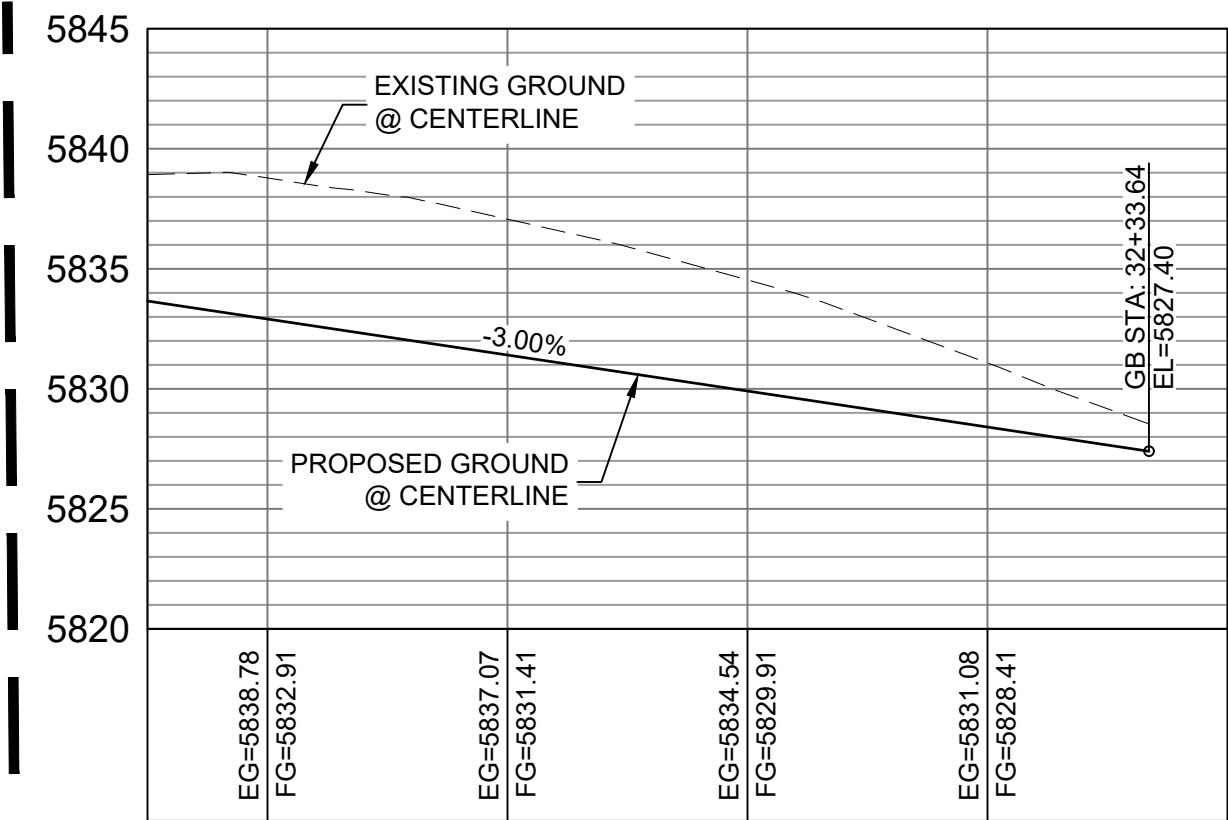
BUFFALO HORN DRIVE/
SIDERWINDER DRIVE
CURB RETURNS PLAN

LINE TABLE		
LINE #	BEARING	DISTANCE
L132	N89°33'35"E	261.04
L232	N41°15'54"E	10.00
L233	S89°34'46"E	10.00
L234	S65°37'06"E	9.93
L235	N73°16'19"E	9.93

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C144	33.66	38.83	49°39'34"
C145	19.00	46.17	23°34'39"
C146	33.69	38.83	49°42'01"
C164	22.45	47.00	27°22'19"
C165	15.85	47.00	19°19'10"
C166	129.06	46.17	160°10'16"

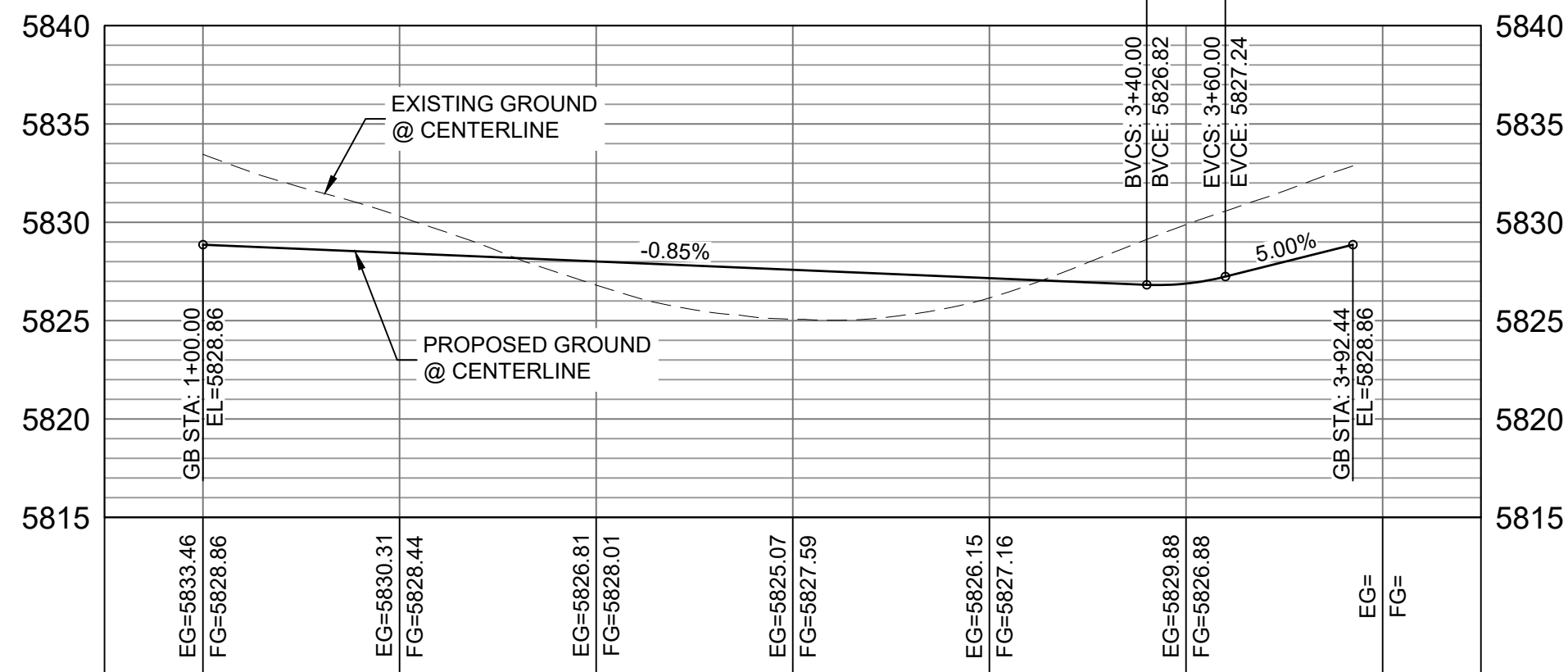


MATCHLINE - STA. 30+25.00
SEE SHEET 24 - RD02



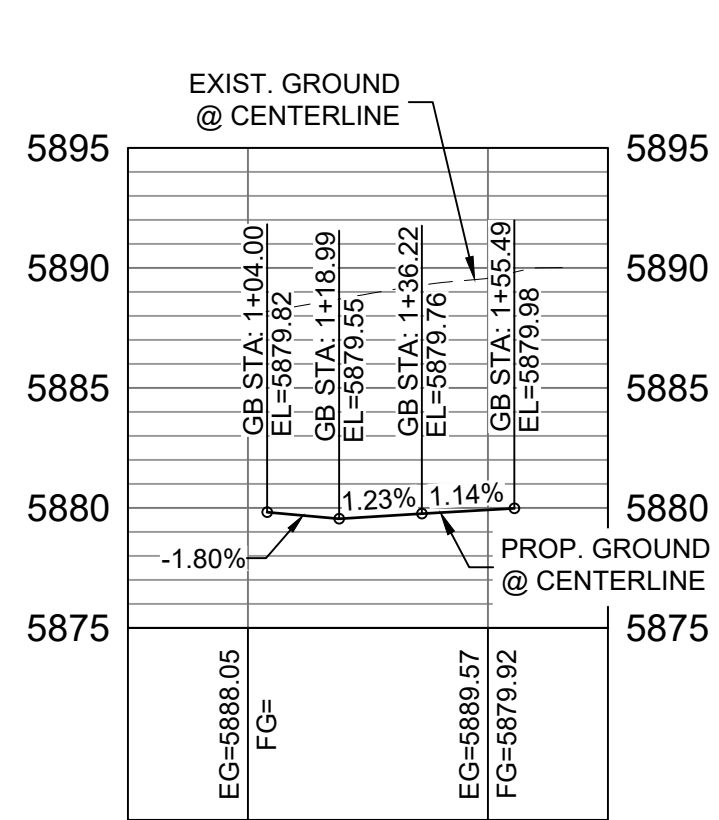
BUFFALO HORN DRIVE CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'



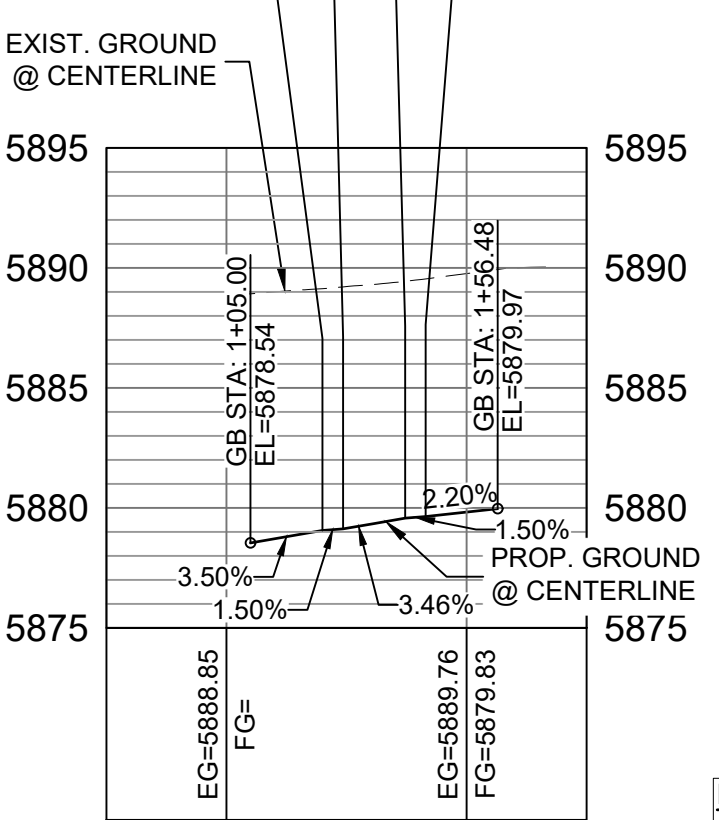
BUFFALO HORN DRIVE CDS FL
PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'



BUFFALO HORN DRIVE /
SIDERWINDER DRIVE NW FL
CURB RETURN PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'



BUFFALO HORN DRIVE /
SIDERWINDER DRIVE NE FL
CURB RETURN PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

LINE TABLE		
LINE #	BEARING	DISTANCE
L159	N84°47'46"E	10.03
L160	N04°19'24"E	10.03
L163	N05°12'14"W	10.03
L164	N85°40'36"W	10.03

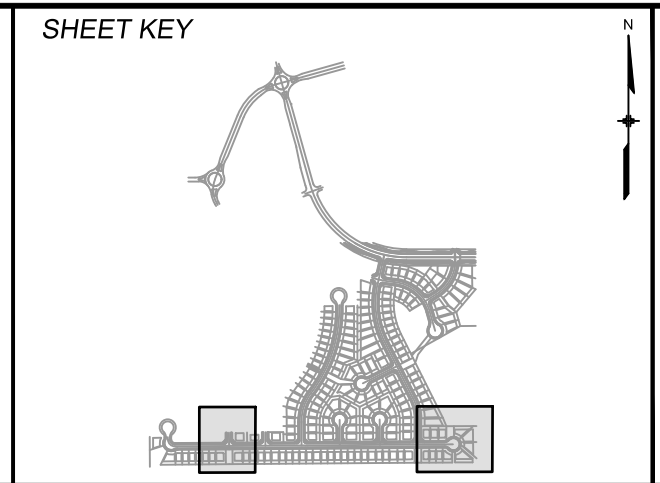
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CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C159	31.42	20.00	90°00'00"
C168	31.42	20.00	90°00'00"

BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH
DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE
NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS
BOULEVARD,
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST
QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF
THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST
CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4
CORNER OF SAID SECTION 9 (3 1/2" AULM. CAP PLS 10377)

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19 886.011 (Trails at Aspen Ridge - F1)\100 Plan Sets\Construction Plans\Road & Storm Plans\RD01-04.dwg			
CTB FILE: COMM-TECH_D-SIZE_BW.ctb			
PLOT DATE: July 2, 2019 2:09:55 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

DESIGN DATA: SIDEWALKS: WIDTH 5' LOCATION: ATTACHED <input checked="" type="checkbox"/> DETACHED <input type="checkbox"/> DESIGN SPEED: 25 MPH CURB TYPE <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E ROW WIDTH 50' FL-FL 32' STREET TYPE RESIDENTIAL	PAVEMENT: TYPE: HMA <input type="checkbox"/> PCC <input type="checkbox"/> THICKNESS: COMPOSITE SECTION: HMA <input type="checkbox"/> BASE <input type="checkbox"/>
---	--



REVIEW: STREET DESIGN: CURB & GUTTER REVIEW _____ DATE: _____ FINAL REVIEW _____ DATE: _____ DRAINAGE DESIGN: BY: _____ DATE: _____ TRAFFIC DESIGN: BY: _____ DATE: _____	
"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended."	

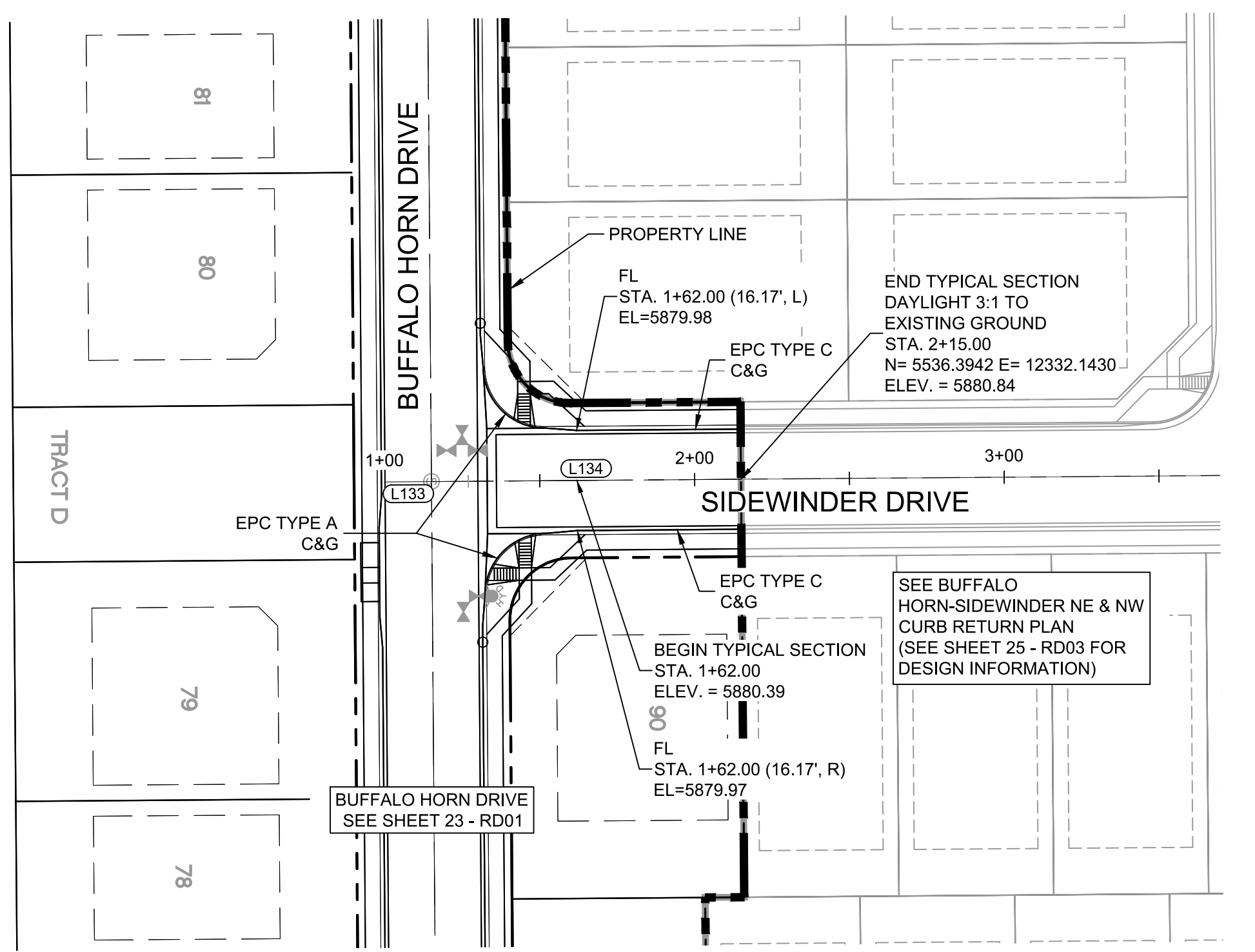


FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 19.886.011	
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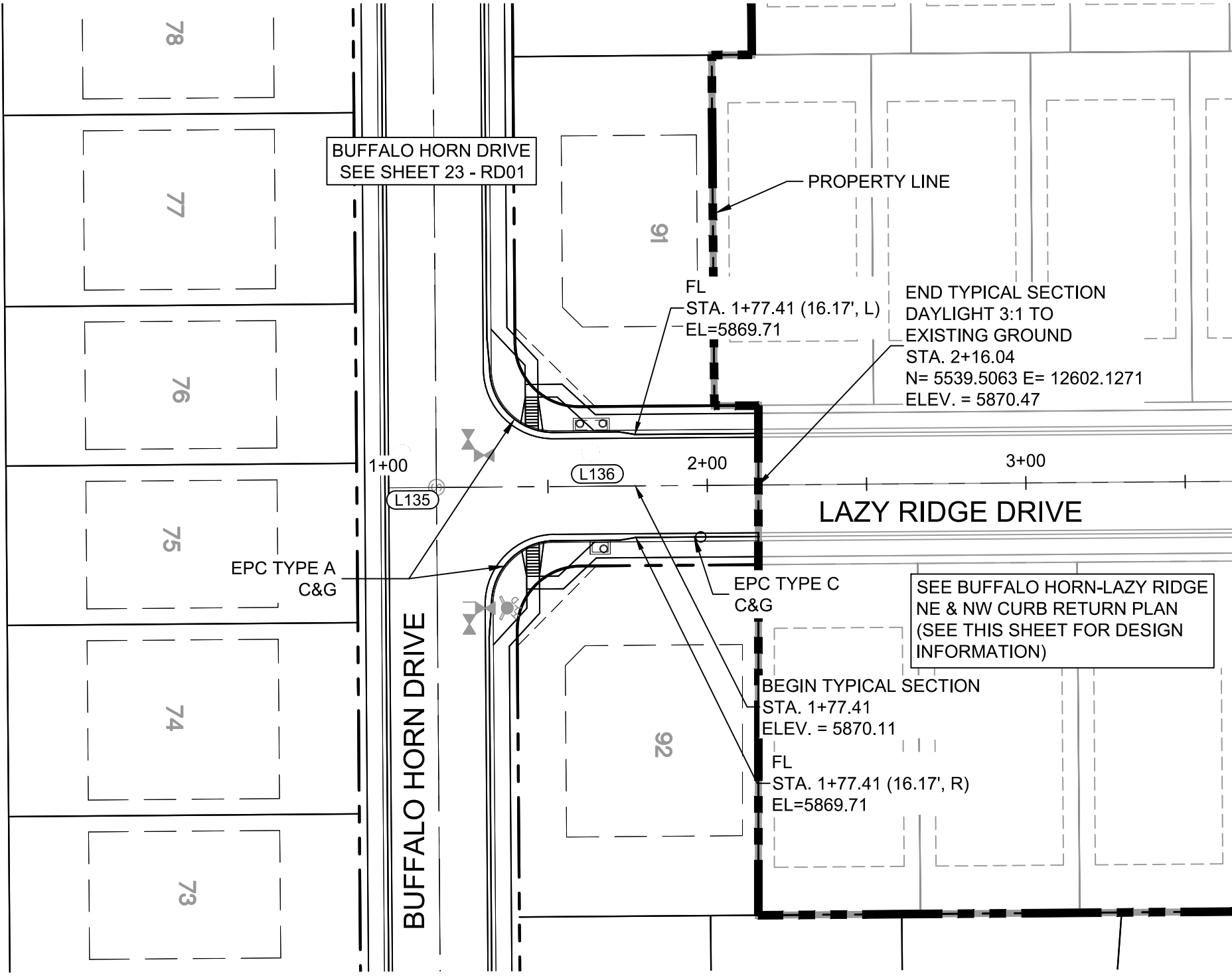
TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORMDRAIN IMPROVEMENT PLANS			
ROADWAY PLAN & PROFILE			
DESIGNED BY: NMS	SCALE: 1"=40'	DATE ISSUED: JULY, 2019	DRAWING No. RD03
DRAWN BY: TJC	HORIZ: 1"=40'		
CHECKED BY: NMS	VERT: 1"=8'	SHEET 25 OF 71	



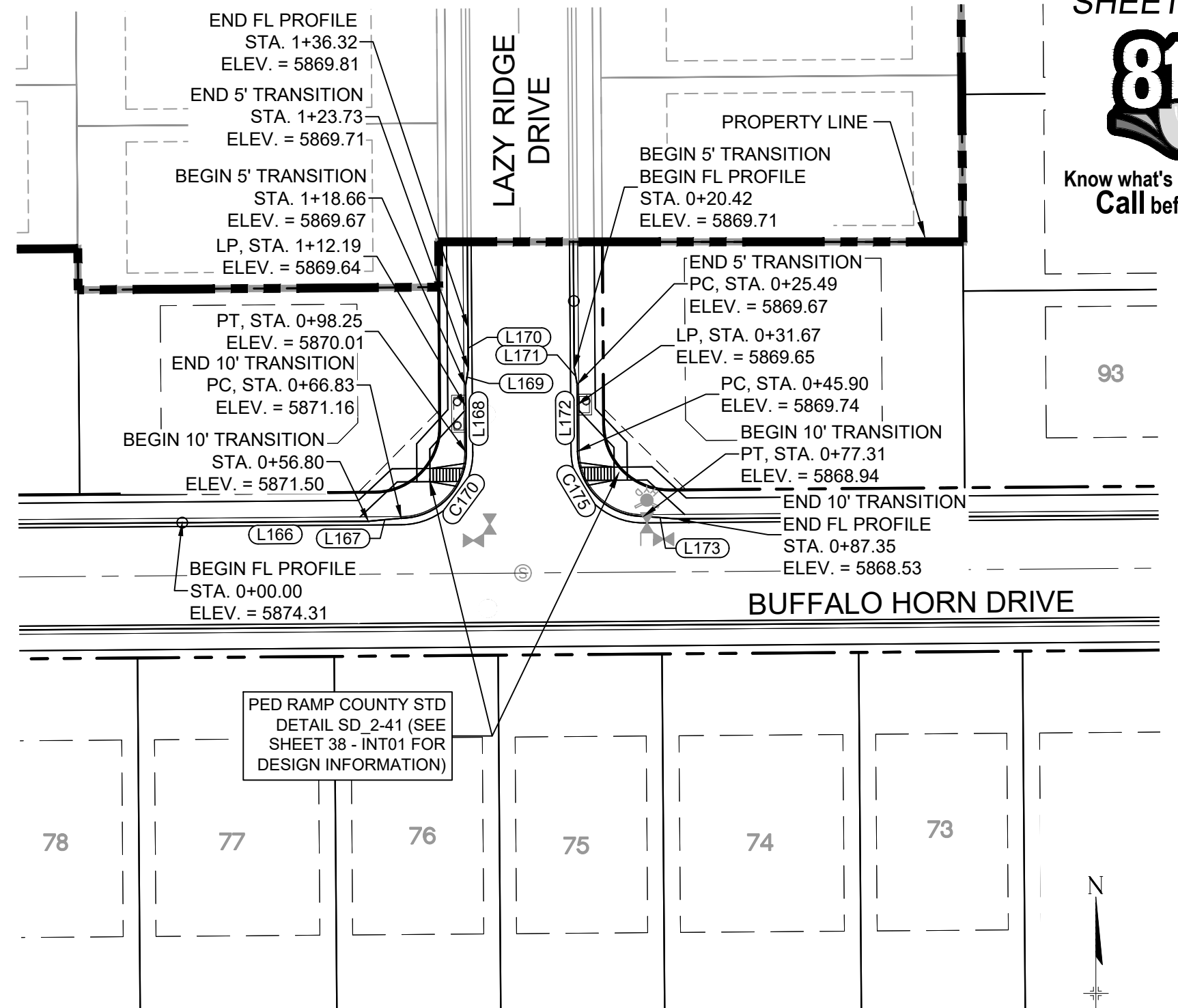
Know what's below.
Call before you dig.



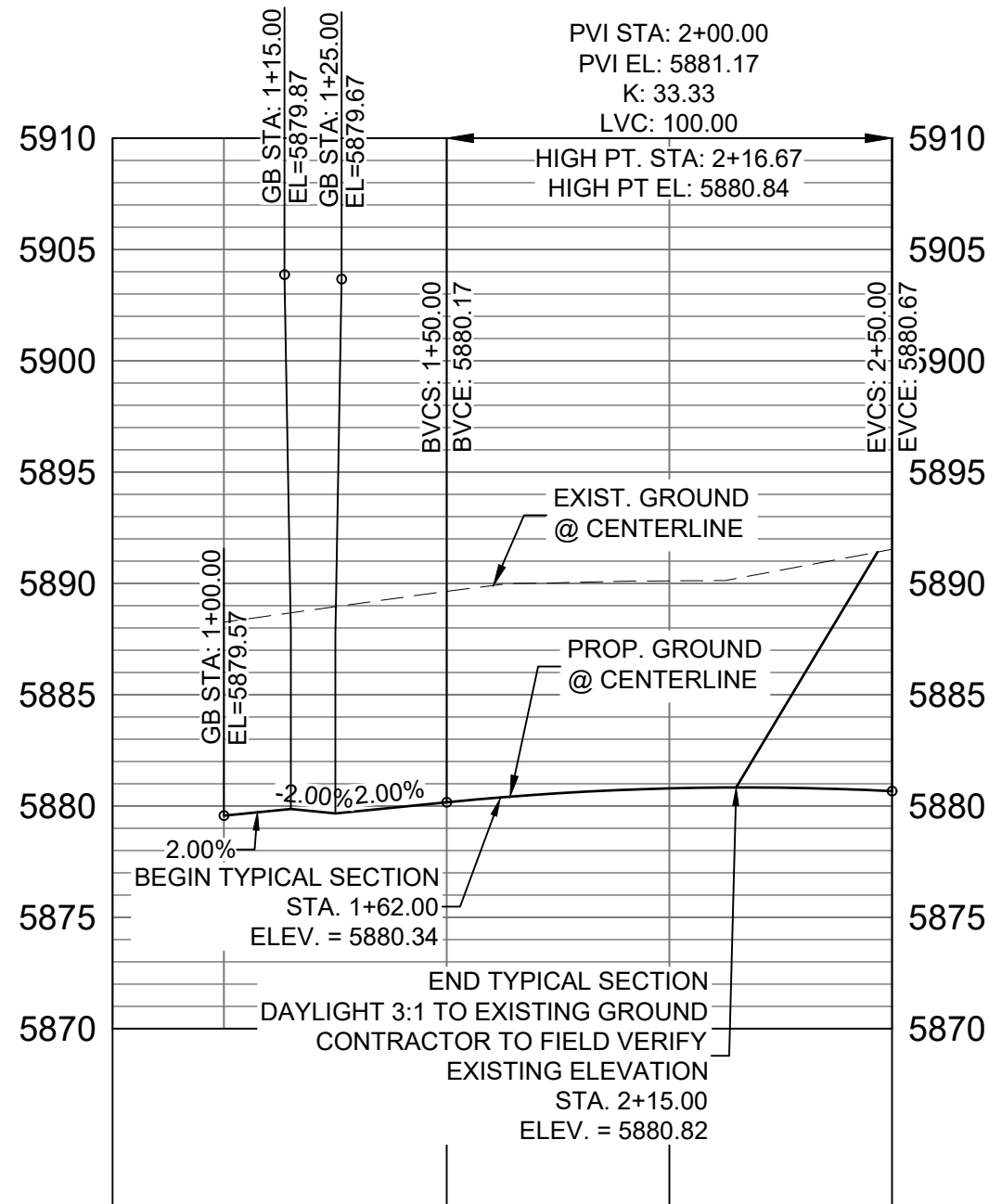
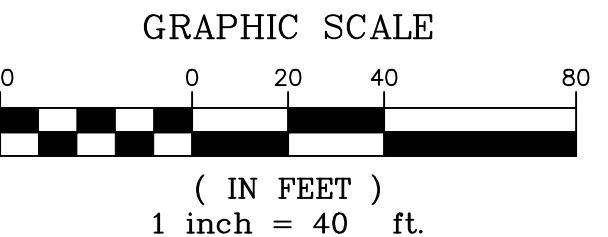
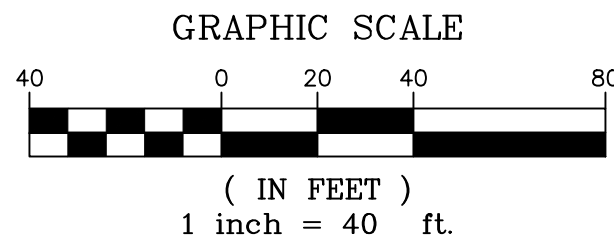
SIDEWINDER DRIVE PLAN



LAZY RIDGE DRIVE PLAN



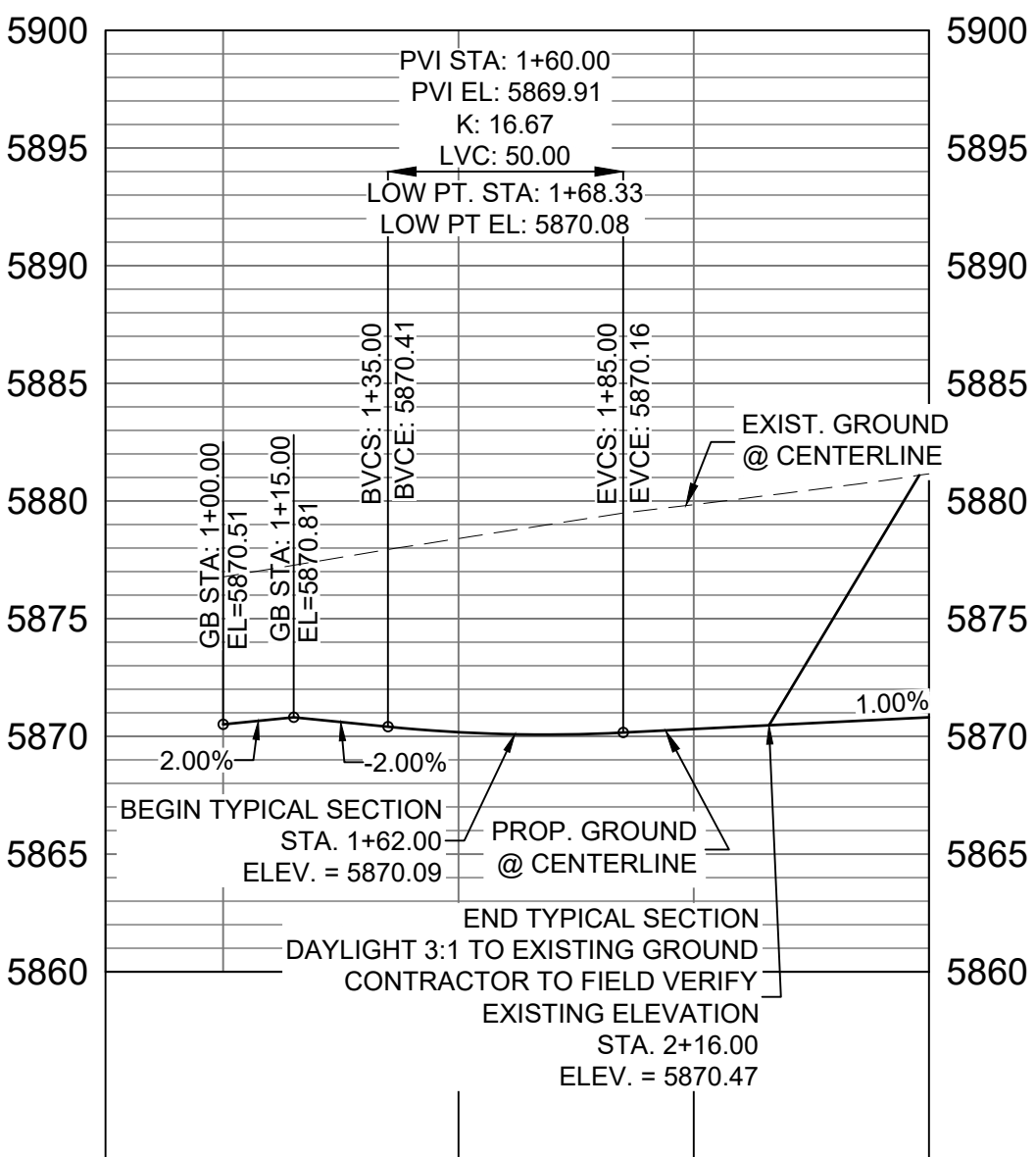
BUFFALO HORN DRIVE /
LAZY RIDGE DRIVE
CURB RETURNS PLAN



SIDEWINDER DRIVE CL PROFILE

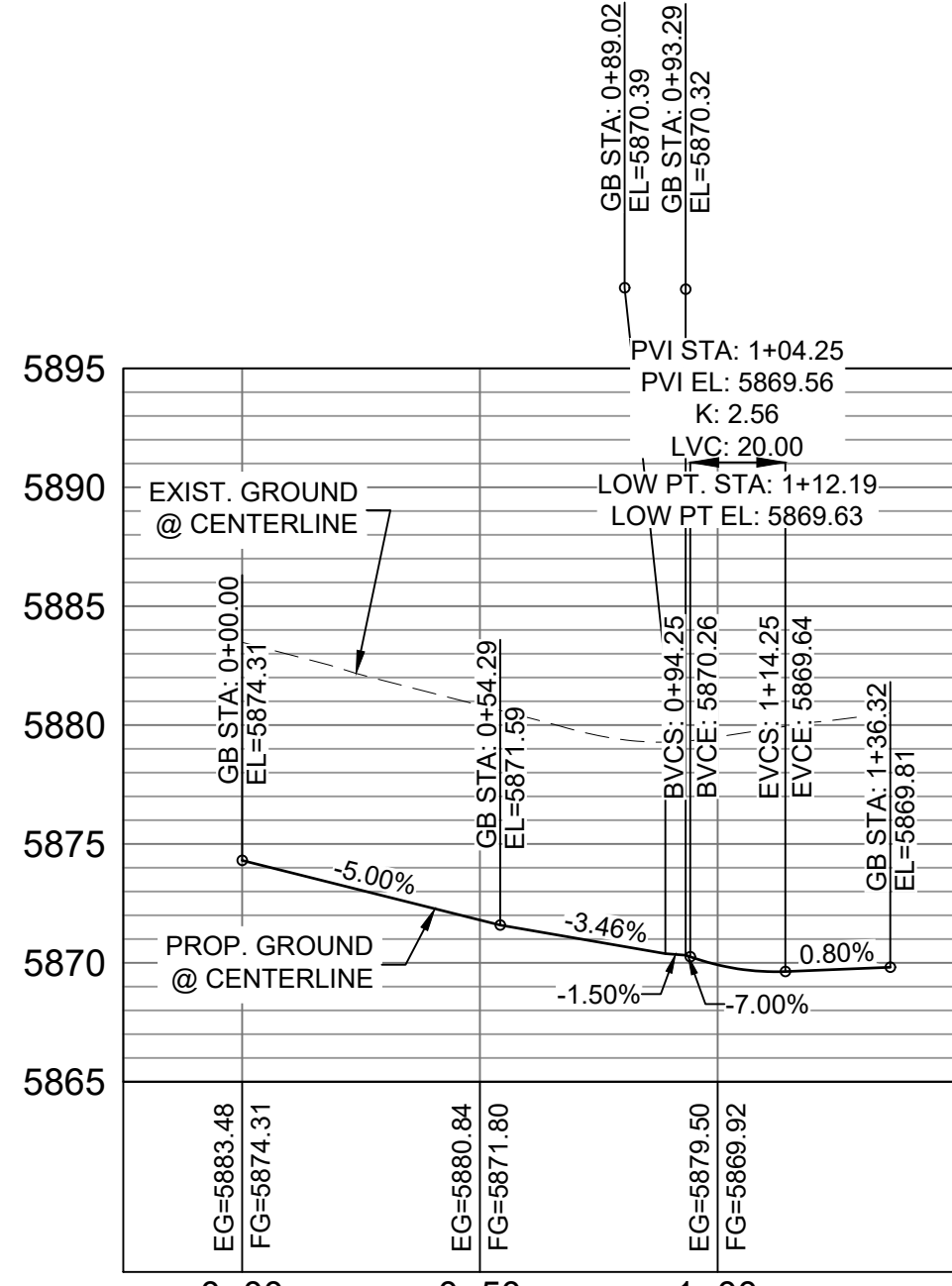
HORIZ: 1" = 40'
VERT: 1" = 8'

LINE TABLE		
LINE #	BEARING	DISTANCE
L133	N00°26'25"W	15.00
L134	N00°26'25"W	100.00
L135	N00°26'25"W	15.00
L136	N00°26'25"W	101.04



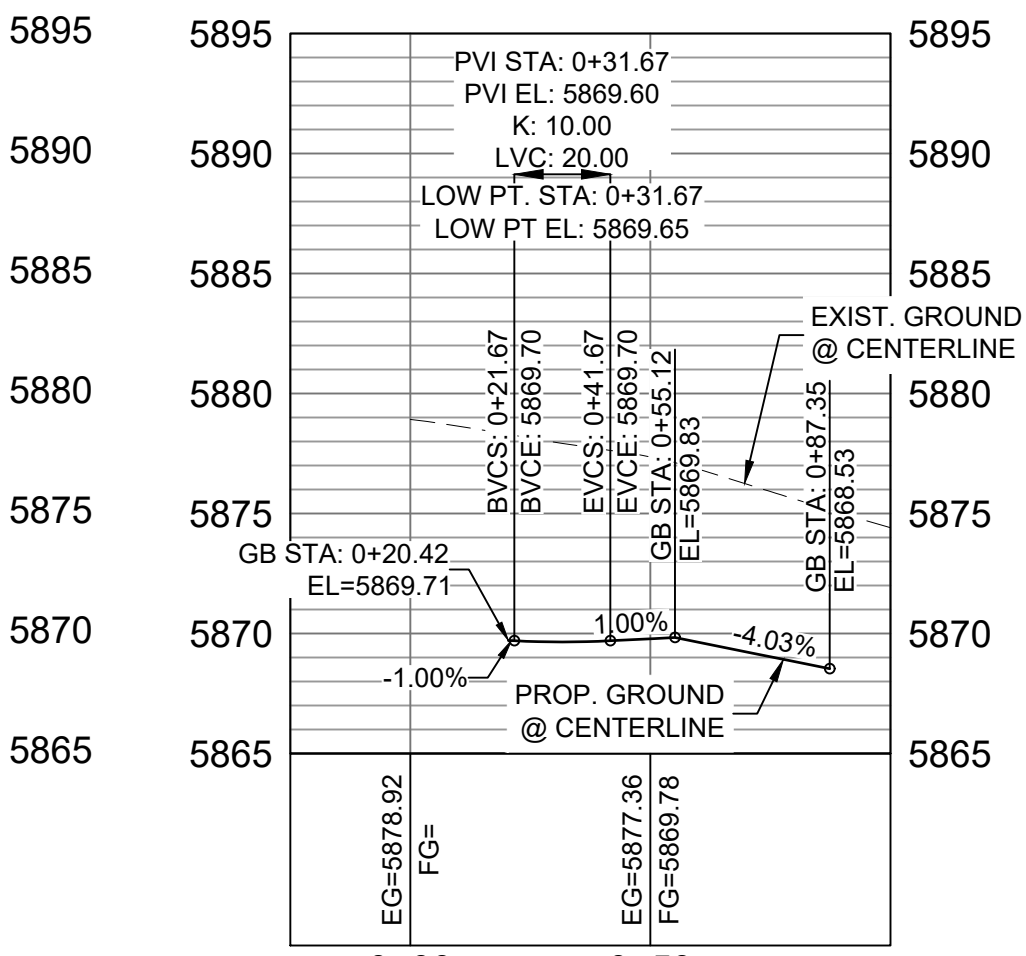
LAZY RIDGE DRIVE CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'



BUFFALO HORN DRIVE /
LAZY RIDGE DRIVE NW FL
CURB RETURN PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'



BUFFALO HORN DRIVE /
LAZY RIDGE DRIVE NE FL
CURB RETURN PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

LINE TABLE		
LINE #	BEARING	DISTANCE
L166	N89°33'35"E	56.80
L167	N84°47'46"E	10.03
L168	N00°26'25"W	20.41
L169	N09°01'19"E	5.07
L170	N00°26'25"W	12.59
L171	S09°54'09"E	5.07
L172	S00°26'25"E	20.41
L173	S85°40'36"E	10.03

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C170	31.42	20.00	90°00'00"
C175	31.42	20.00	90°00'00"

BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH
DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE
NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS
BOULEVARD,
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST
QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF
THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST
CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4
CORNER OF SAID SECTION 9 (3 1/2" AULM. CAP PLS 10377)

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19 886.011\Trails at Aspen Ridge - F1\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD01-04.dwg			
CTB FILE: COMM-TECH_D-SIZE_BW.ctb			
PLOT DATE: July 2, 2019 2:10:47 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

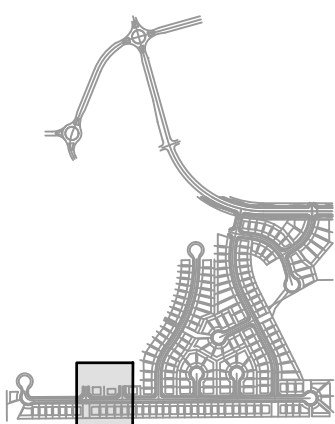
DESIGN DATA:

SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒ DETACHED ☐
DESIGN SPEED: 25 MPH
CURB TYPE ☒ A ☐ B ☐ C ☐ D ☐ E
ROW WIDTH 50' FL-FL 32'
STREET TYPE RESIDENTIAL

PAVEMENT:
TYPE: HMA ☐ PCC ☐
THICKNESS:

COMPOSITE SECTION:
HMA ☐ BASE ☐

SHEET KEY



REVIEW:

STREET DESIGN:
CURB & GUTTER REVIEW _____ DATE: _____
FINAL REVIEW _____ DATE: _____
DRAINAGE DESIGN:
BY: _____ DATE: _____
TRAFFIC DESIGN:
BY: _____ DATE: _____

"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:



SEAL

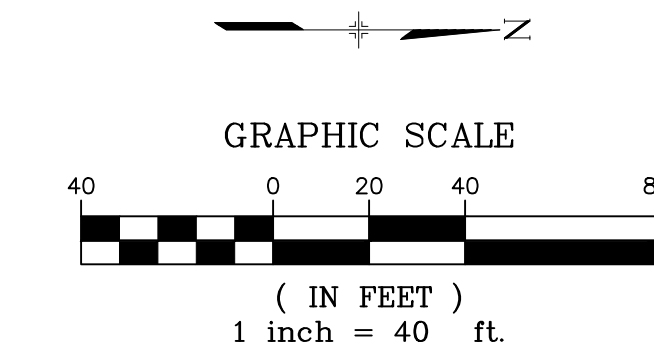
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

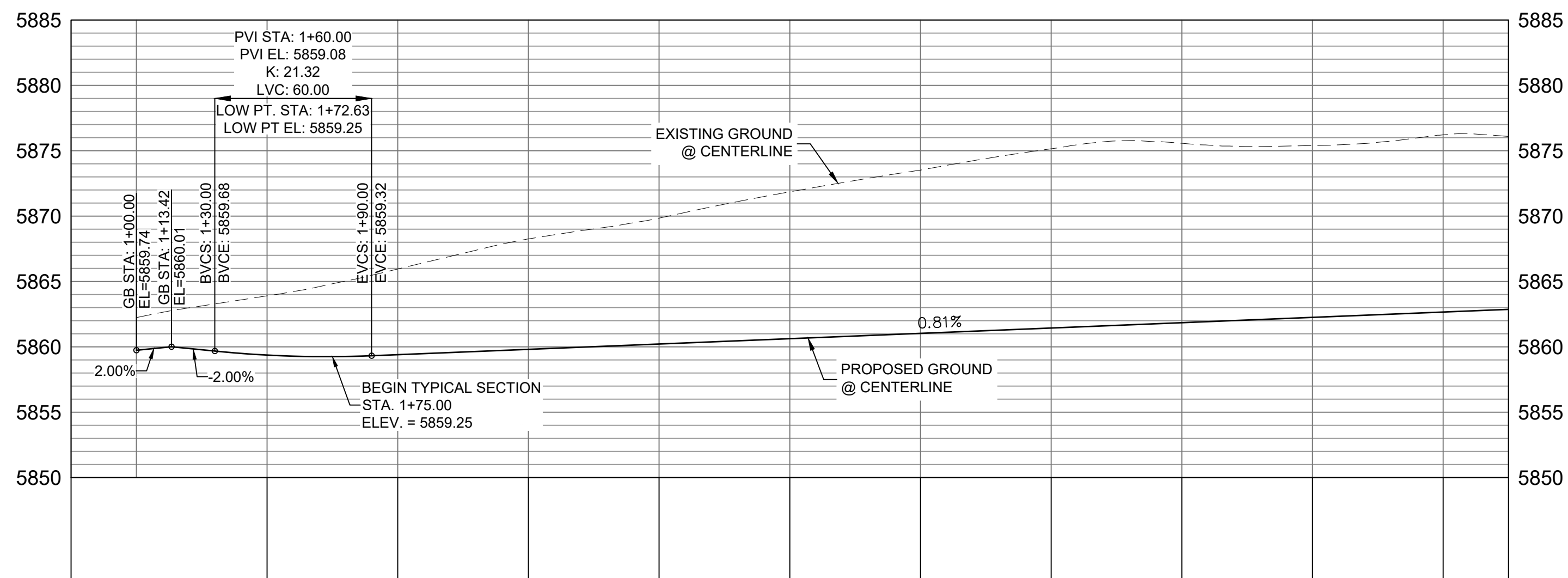
ROADWAY PLAN & PROFILE

DESIGNED BY: NMS SCALE: 1"=40' DATE ISSUED: JULY, 2019 DRAWING No. RD04
DRAWN BY: TJC HORIZ: 1"=40' SHEET 26 OF 71
CHECKED BY: NMS VERT: 1"=8'

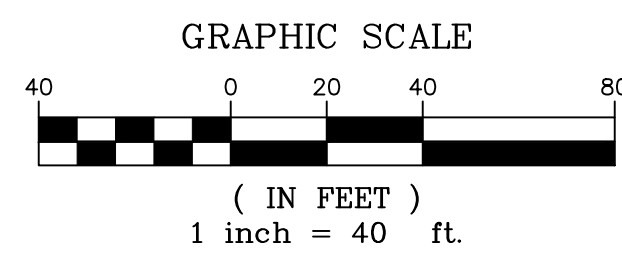


LINE TABLE		
LINE #	BEARING	DISTANCE
L137	N00°26'25"W	15.00
L138	N00°26'25"W	174.59

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C133	229.33	350.00	37°32'28"

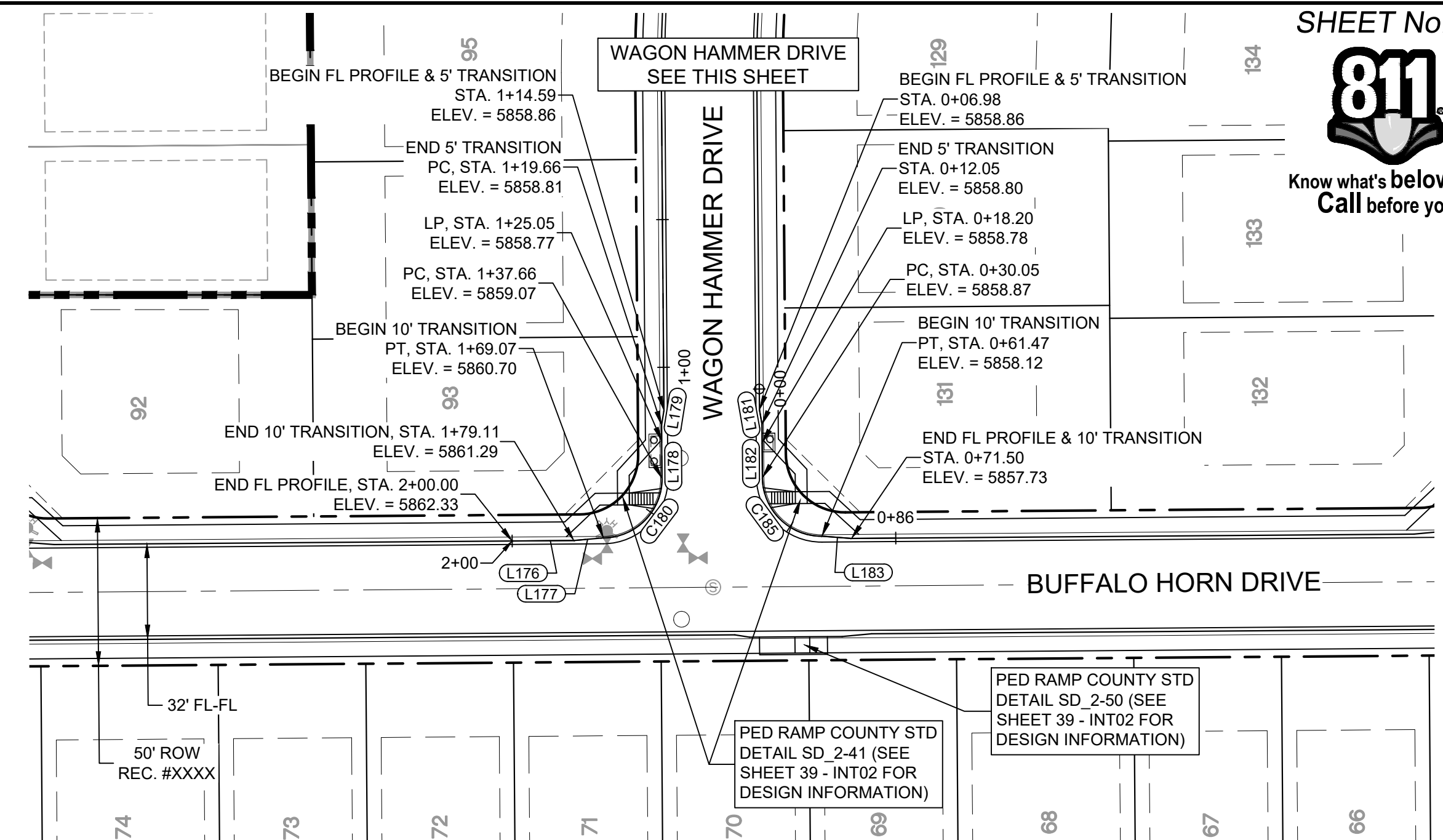


HORIZ: 1" = 40'
VERT: 1" = 8'

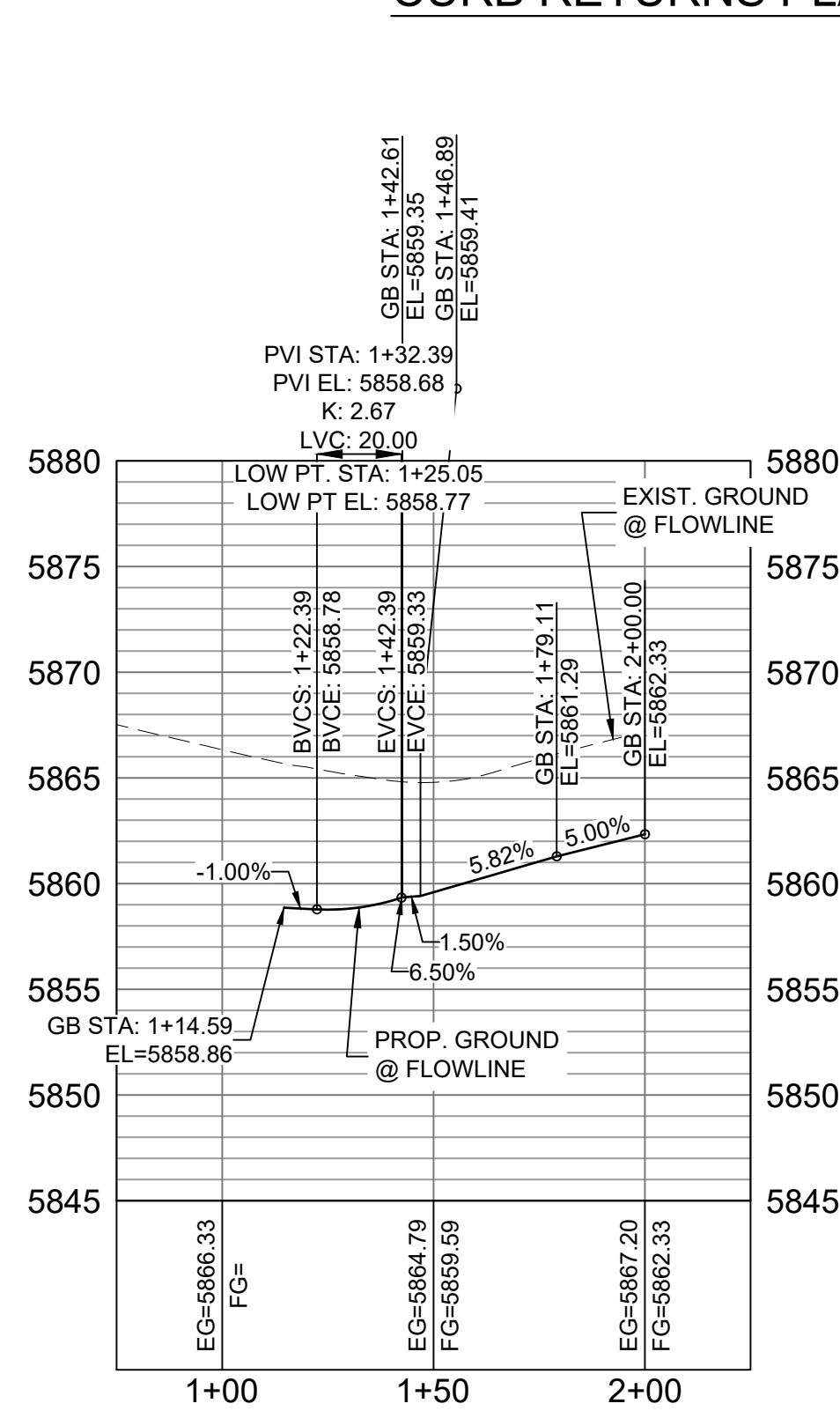


LINE TABLE		
LINE #	BEARING	DISTANCE
L176	S89°33'35"W	20.89
L177	S84°47'46"W	10.03
L178	S00°28'25"E	18.00
L179	S09°01'19"W	5.07
L181	S09°54'09"E	5.07
L182	S00°28'25"E	18.00
L183	S85°40'36"E	10.03

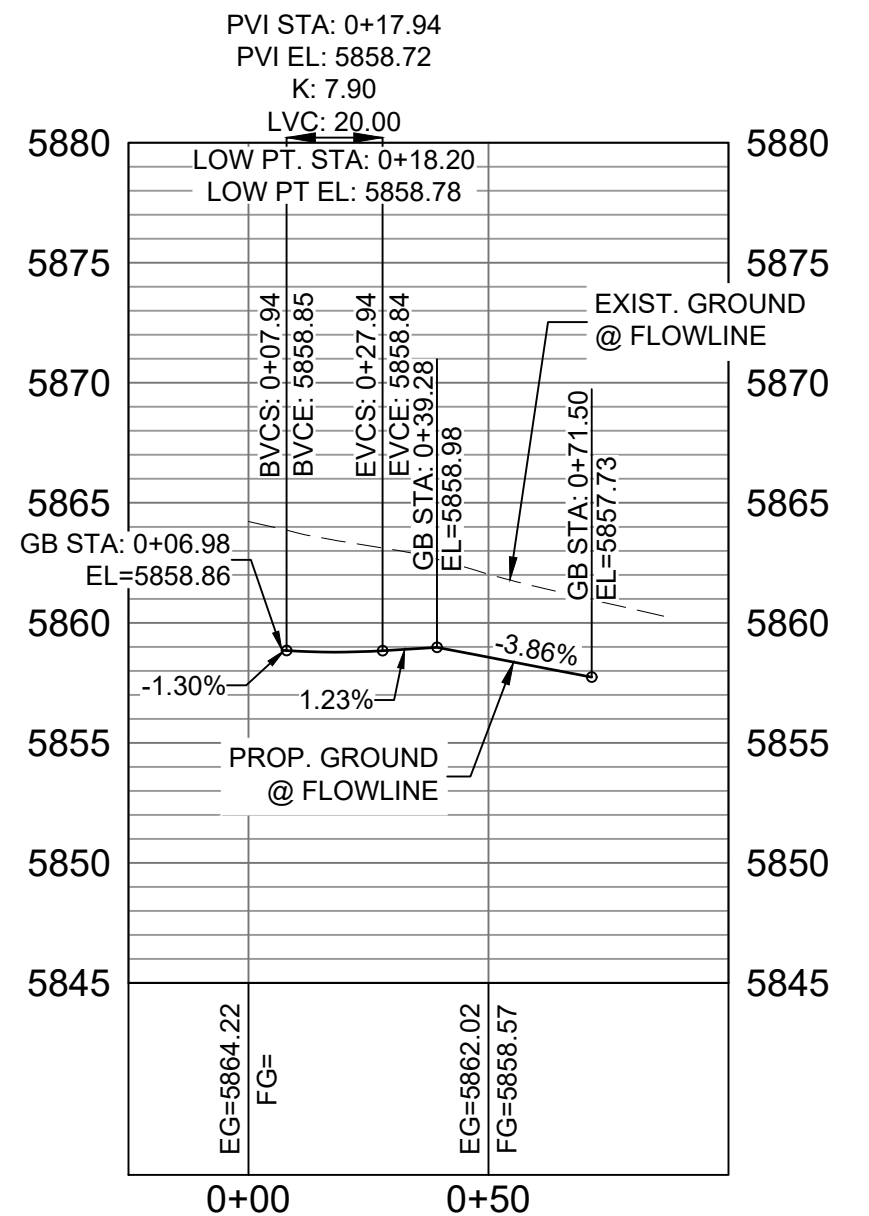
CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C180	31.42	20.00	90°00'00"
C185	31.42	20.00	90°00'00"



BUFFALO HORN DRIVE/
WAGON HAMMER DRIVE
CURB RETURNS PLAN



BUFFALO HORN DRIVE /
WAGON HAMMER DRIVE W FL
CURB RETURN PROFILE



BUFFALO HORN DRIVE /
WAGON HAMMER DRIVE E FL
CURB RETURN PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

BENCHMARK

COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN POT SECURITY MONUMENT SYSTEM WITH A 3.5-INCH
DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE
NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS
BOULEVARD,
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING

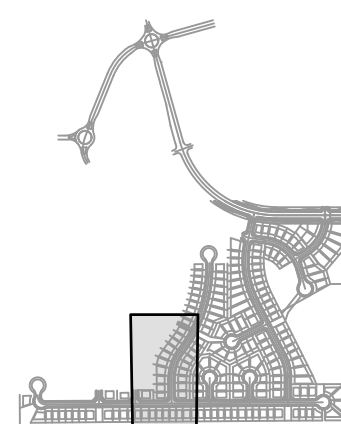
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/2" AULM. CAP PLS 10377)

No.	DATE	DESCRIPTION		BY
REVISIONS				
COMPUTER FILE MANAGEMENT				
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD005-08.dwg				
CTB FILE: COMM-TECH_D-SIZE_BW.ctb				
PLOT DATE: July 2, 2019 2:12:03 PM				
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.				

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LOCATION: ATTACHED <input checked="" type="checkbox"/>		TYPE: HMA <input type="checkbox"/> PCC <input type="checkbox"/>
DETACHED <input type="checkbox"/>		THICKNESS: _____
DESIGN SPEED: 25 MPH		
CURB TYPE <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E		COMPOSITE SECTION:
ROW WIDTH 50' FL-FL 32'		HMA _____ BASE _____
STREET TYPE RESIDENTIAL		

PAVEMENT:
TYPE: HMA ☐ . PCC ☐
THICKNESS:

COMPOSITE SECTION:
HMA _____ BASE _____



REVIEW:

STREET DESIGN:

CURB & GUTTER REVIEW _____ DATE: _____

FINAL REVIEW _____ DATE: _____

DRAINAGE DESIGN:

BY: _____ DATE: _____

TRAFFIC DESIGN:
BY: _____ DATE: _____

"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:

Matrix
DESIGN GROUP

SEAL

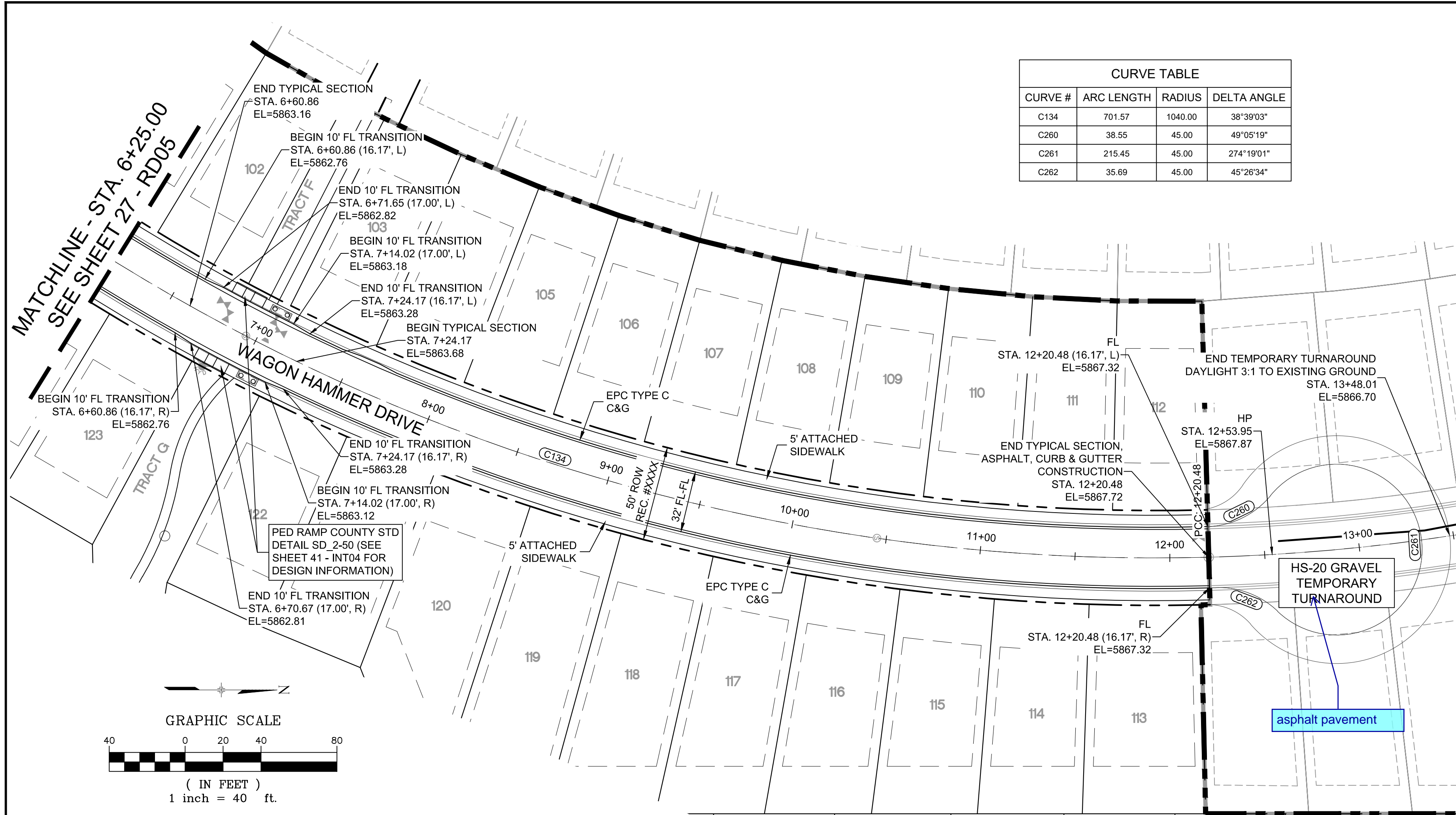
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE

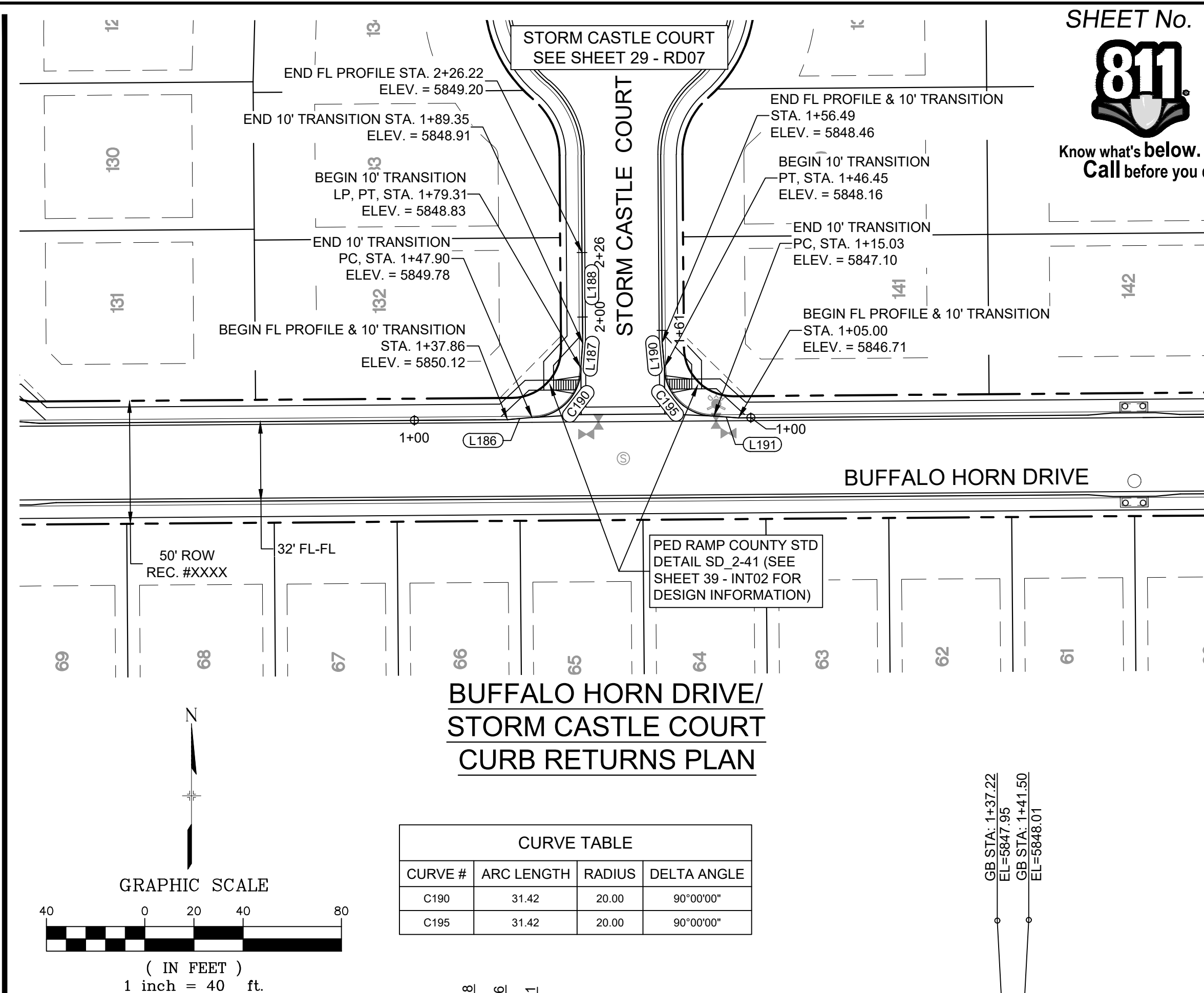
FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

ROADWAY PLAN & PROFILE

DESIGNED BY:	NMS	SCALE	DATE ISSUED:	JULY, 2019	DRAWING No. RD05
DRAWN BY:	TJC	HORIZ. 1"=40'			
CHECKED BY:	NMS	VERT. 1"=8'	SHEET	27 OF 71	

Know what's below.
Call before you dig.

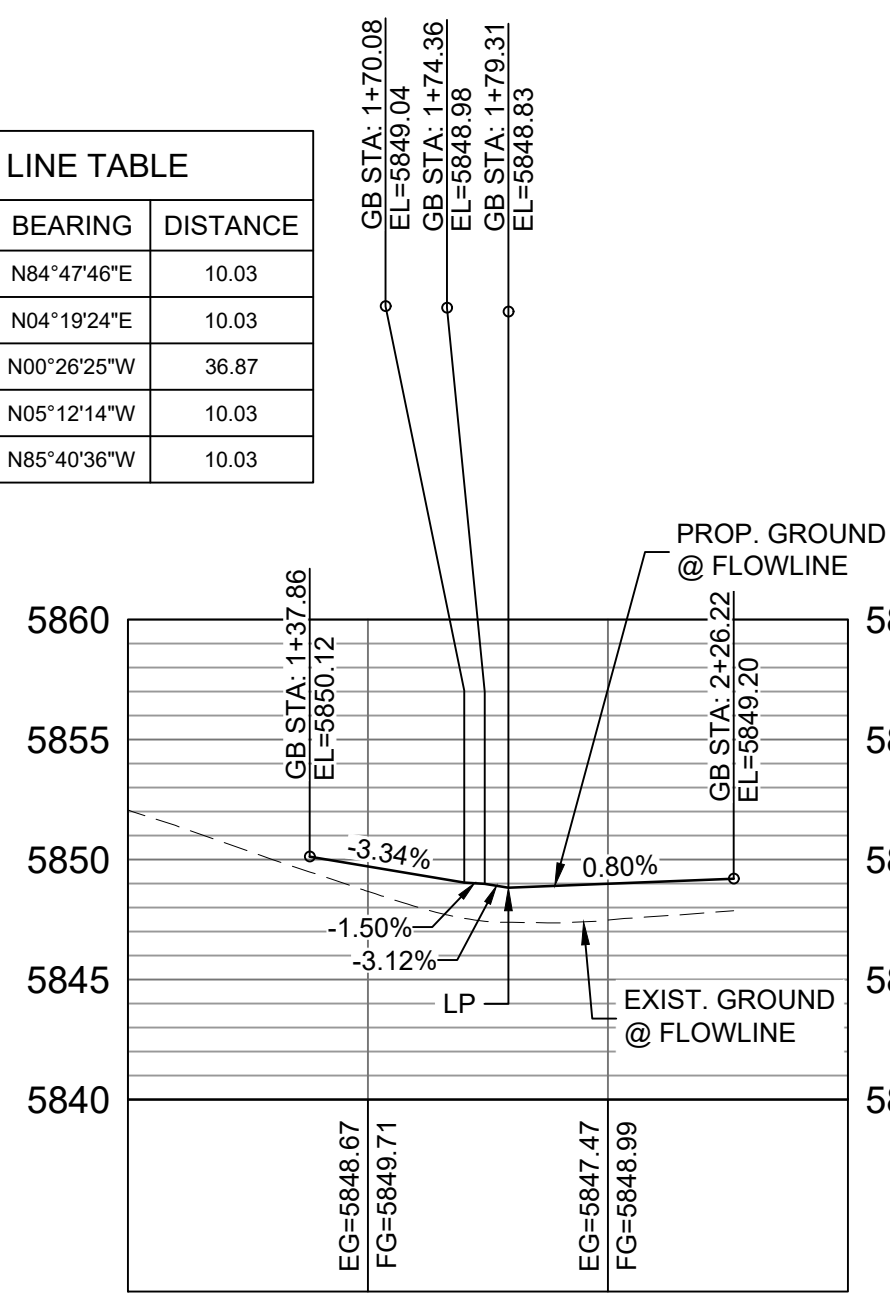
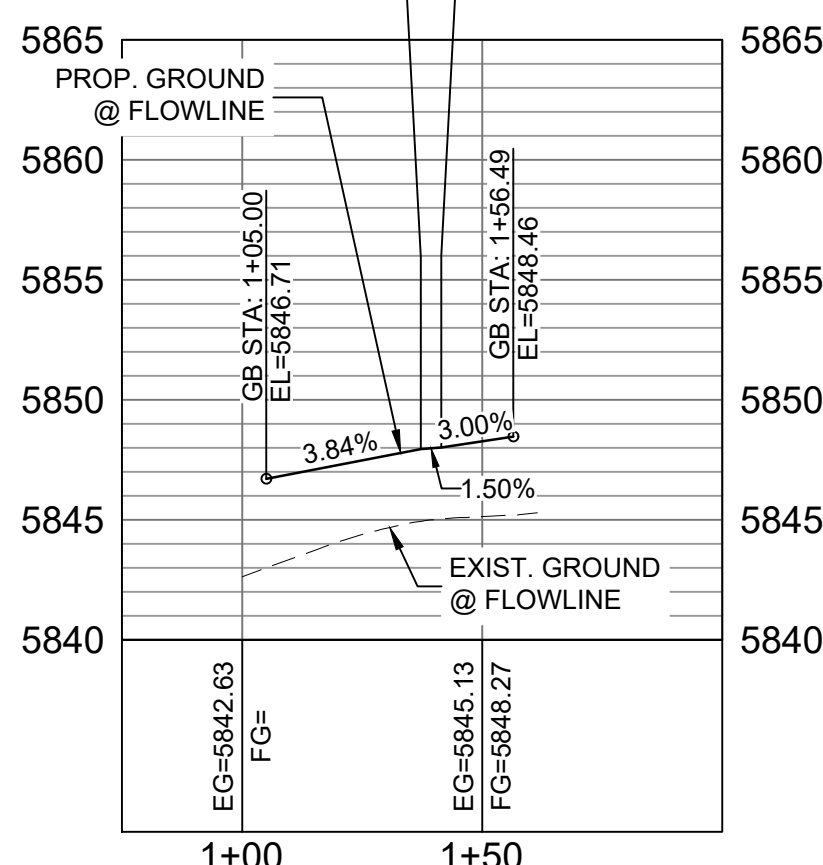
WAGON HAMMER DRIVE PLAN

BUFFALO HORN DRIVE/
STORM CASTLE COURT
CURB RETURNS PLAN

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C134	701.57	1040.00	38°39'03"
C260	38.55	45.00	49°05'19"
C261	215.45	45.00	274°19'01"
C262	35.69	45.00	45°26'34"

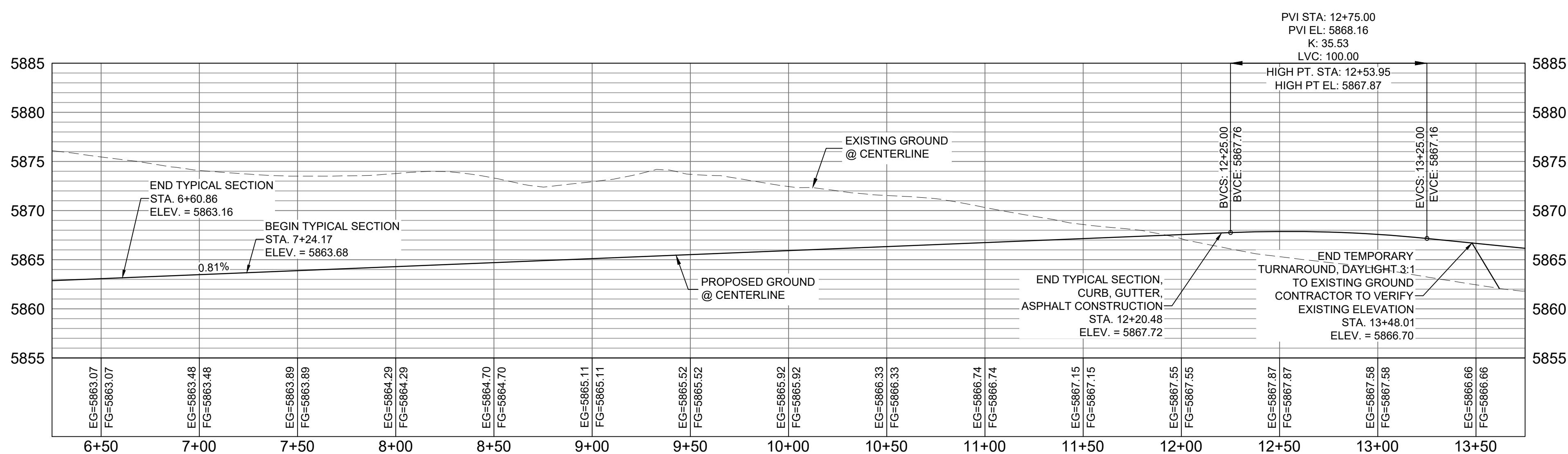
CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C190	31.42	20.00	90°00'00"
C195	31.42	20.00	90°00'00"

LINE TABLE		
LINE #	BEARING	DISTANCE
L186	N84°47'46"E	10.03
L187	N04°19'24"E	10.03
L188	N00°26'25"W	36.87
L190	N05°12'14"W	10.03
L191	N85°40'36"W	10.03

BUFFALO HORN DRIVE /
STORM CASTLE COURT W FL
CURB RETURN PROFILEHORIZ: 1" = 40'
VERT: 1" = 8'BUFFALO HORN DRIVE /
STORM CASTLE COURT E FL
CURB RETURN PROFILEHORIZ: 1" = 40'
VERT: 1" = 8'

BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH
DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE
NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS
BOULEVARD,
ELEVATION - 5899.87' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST
QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF
THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST
CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4
CORNER OF SAID SECTION 9 (3 1/2" AULM. CAP PLS 10377)

MATCHLINE - STA. 6+25.00
SEE SHEET 27 - RD05

WAGON HAMMER DRIVE CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD05-08.dwg			
CTB FILE: COMM-TECH D-SIZE_BW.ctb			
PLOT DATE: July 2, 2019 1:39:12 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

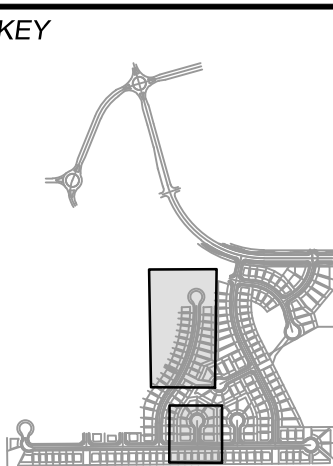
DESIGN DATA:

SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒ DETACHED ☐
DESIGN SPEED: 25 MPH
CURB TYPE ☒ A ☐ B ☐ C ☐ D ☐ E
ROW WIDTH 50' FL-FL 32'
STREET TYPE RESIDENTIAL

PAVEMENT:
TYPE: HMA ☐ PCC ☐
THICKNESS:

COMPOSITE SECTION:
HMA ☐ BASE ☐

SHEET KEY



REVIEW:

STREET DESIGN:
CURB & GUTTER REVIEW _____ DATE: _____
FINAL REVIEW _____ DATE: _____
DRAINAGE DESIGN:
BY: _____ DATE: _____
TRAFFIC DESIGN:
BY: _____ DATE: _____

*Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:

Matrix
DESIGN GROUP

SEAL

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

DESIGNED BY: NMS
DRAWN BY: TJC
CHECKED BY: NMS

SCALE
HORIZ: 1"=40'
VERT: 1"=8'

DATE ISSUED: JULY, 2019
SHEET 28 OF 71

DRAWING No.
RD06

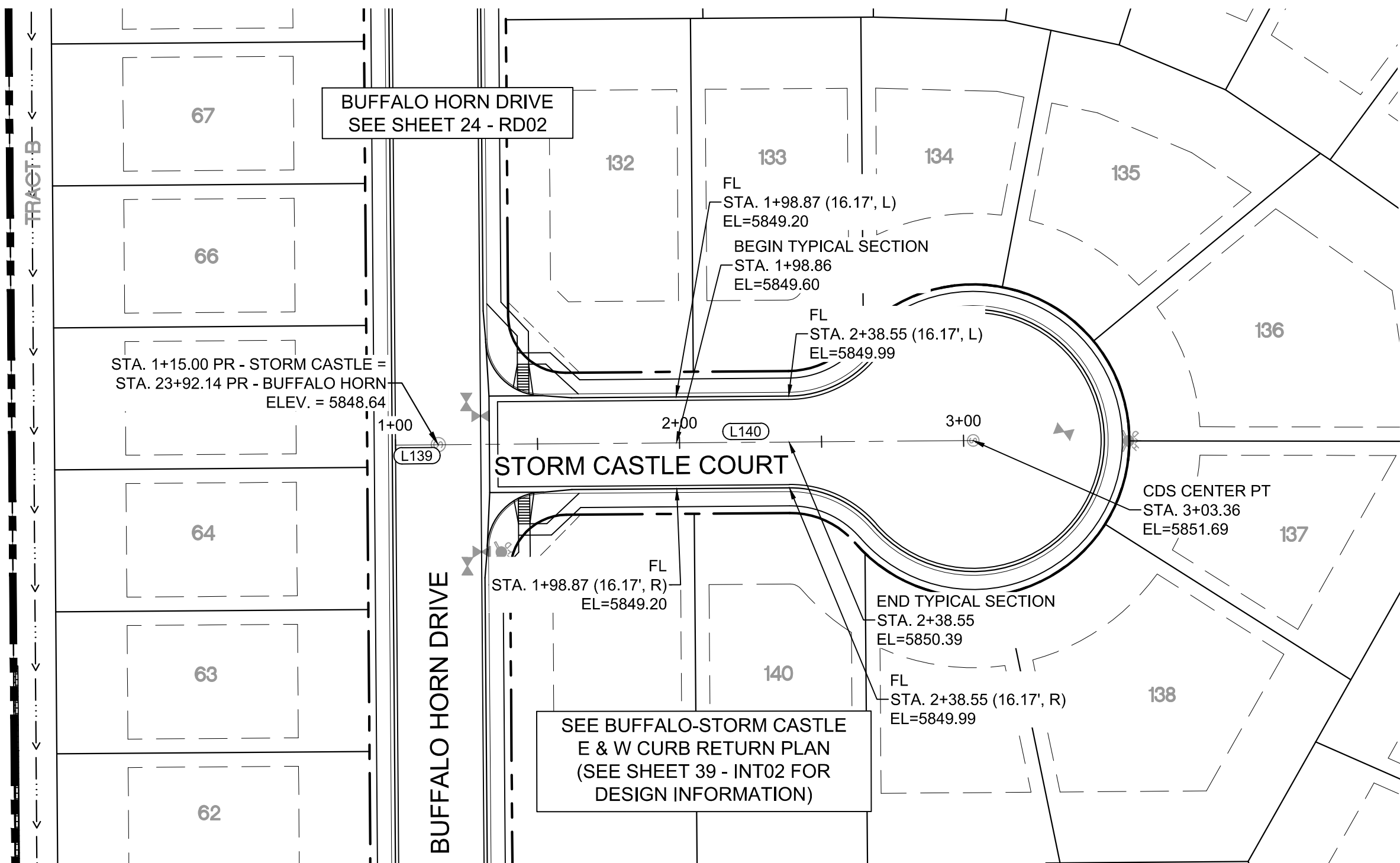
TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

ROADWAY PLAN & PROFILE

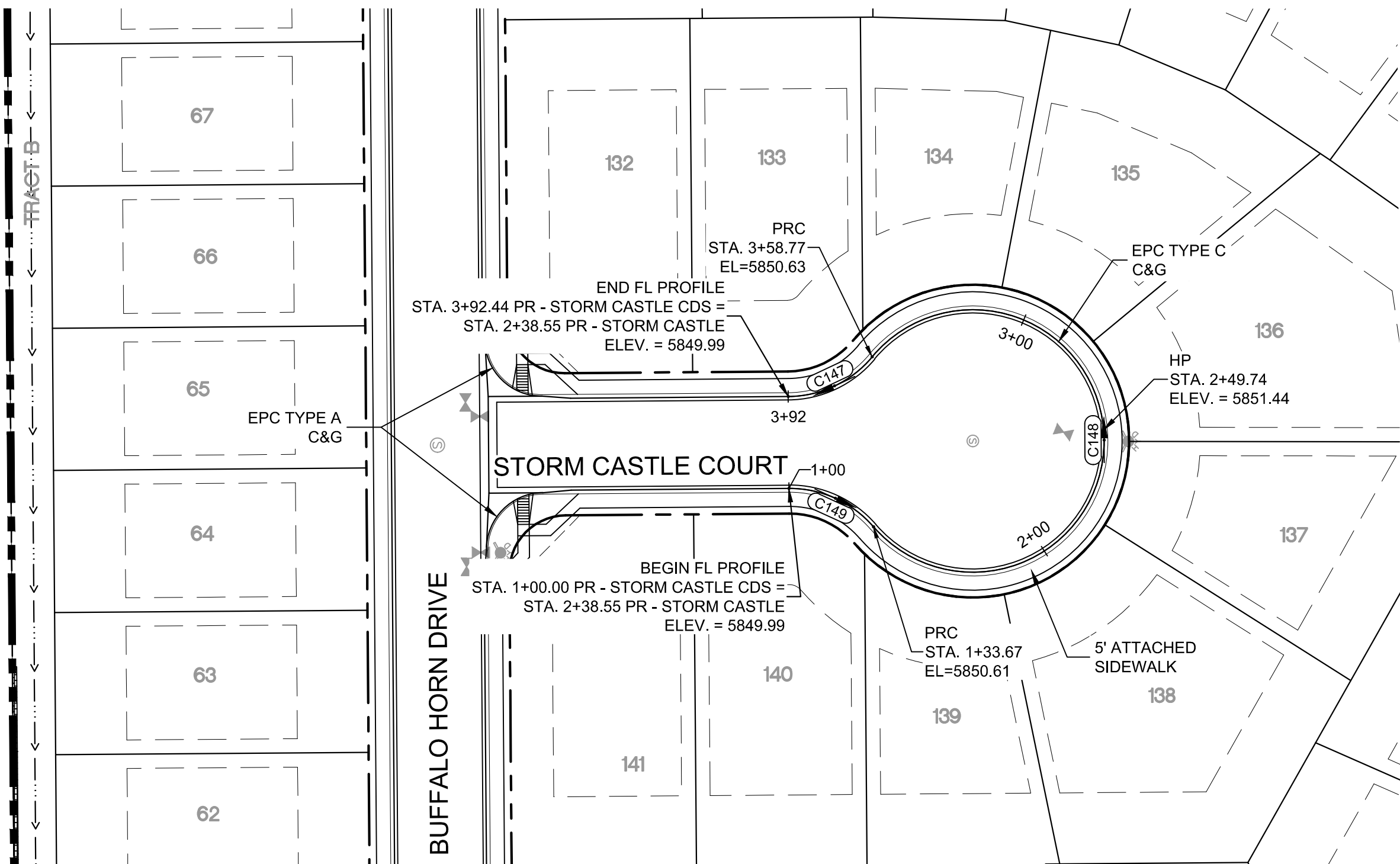


Know what's below.
Call before you dig.



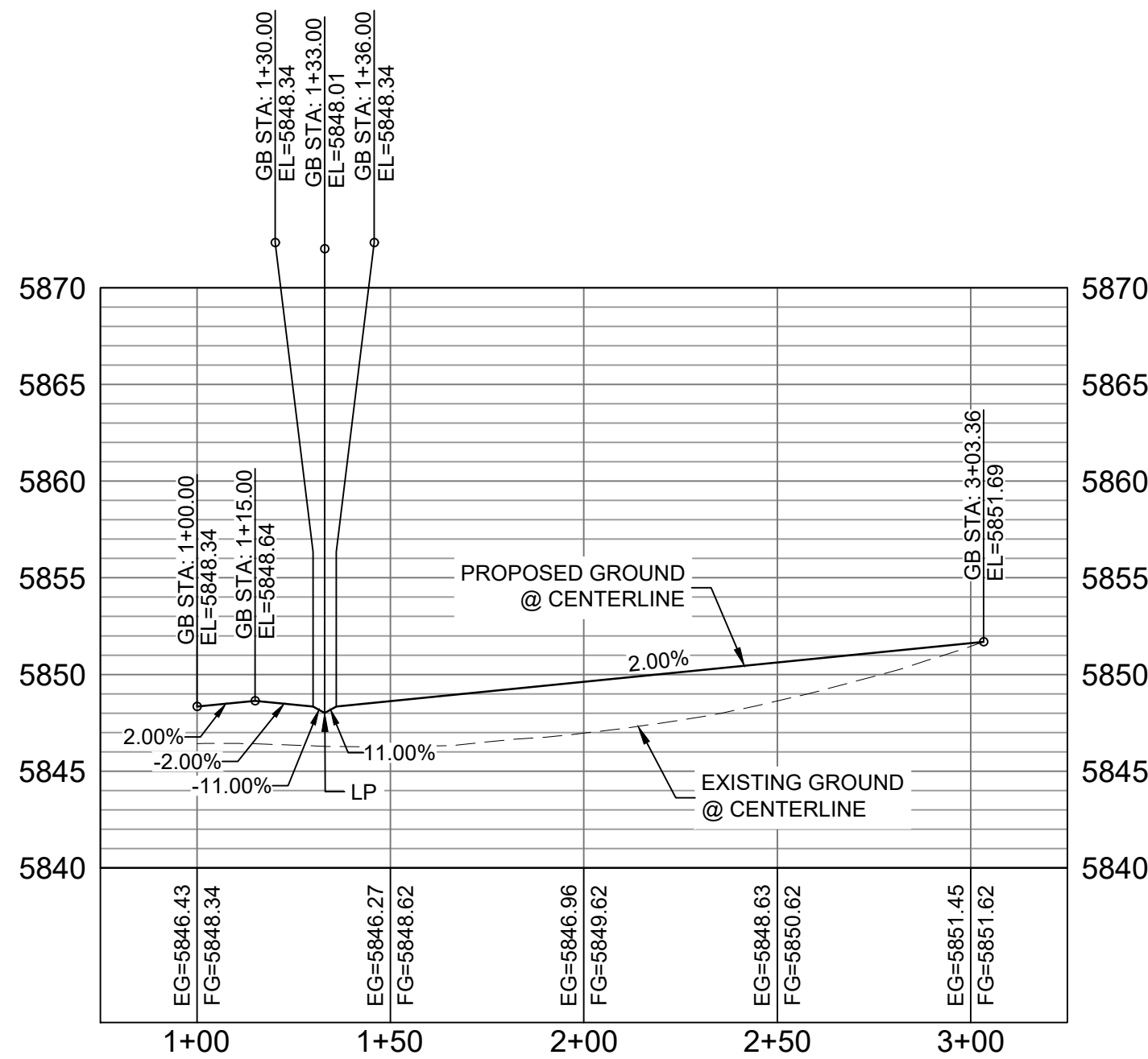
STORM CASTLE COURT PLAN

LINE TABLE		
LINE #	BEARING	DISTANCE
L139	N00°26'25"W	15.00
L140	N00°26'25"W	188.36



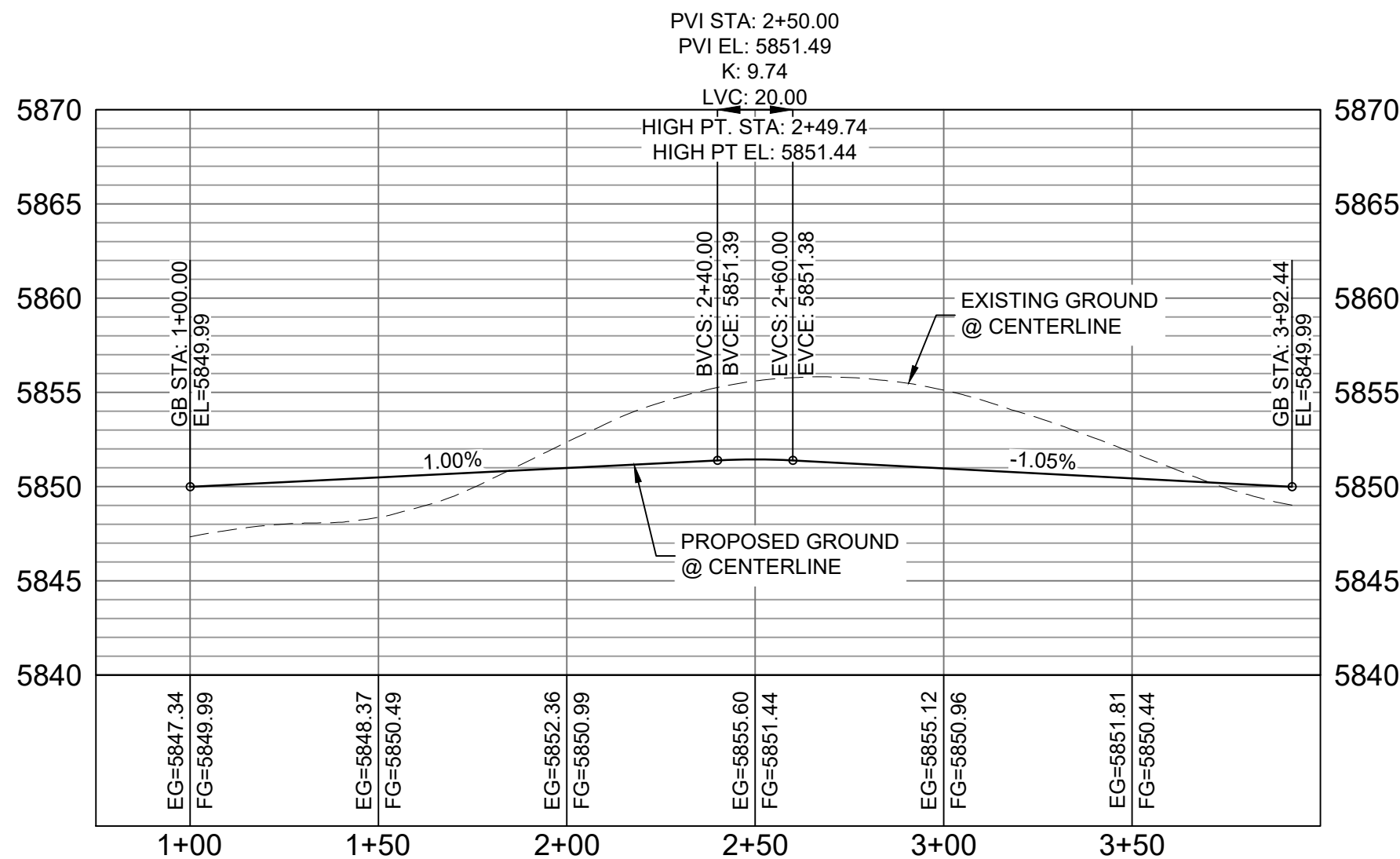
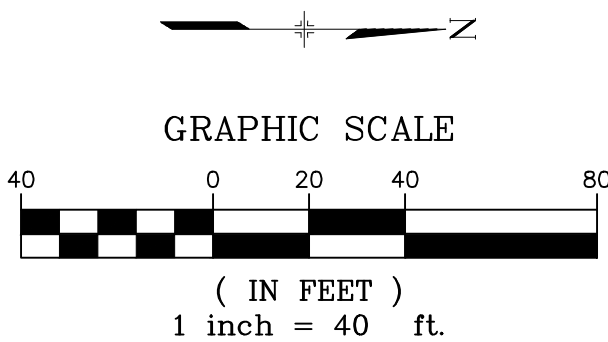
STORM CASTLE COURT CDS PLAN

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C147	33.67	38.83	49°40'47"
C148	225.10	46.17	279°21'34"
C149	33.67	38.83	49°40'47"



STORM CASTLE COURT CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'



STORM CASTLE COURT CDS FL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH
DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE
NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS
BOULEVARD,
ELEVATION - 5897.89' U.S. SURVEY FT

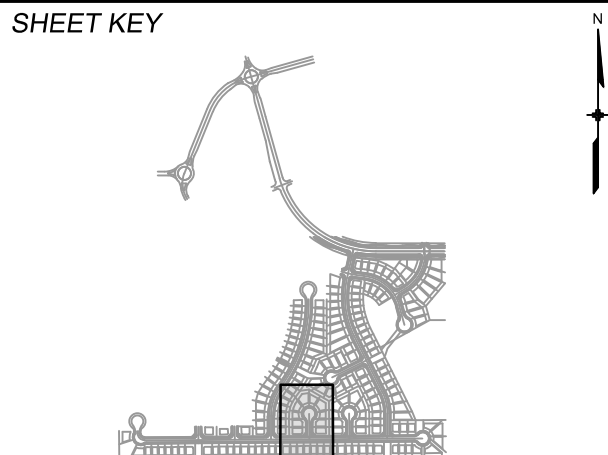
BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST
QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF
THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST
CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4
CORNER OF SAID SECTION 9 (3 1/4" AULM. CAP PLS 10377)

No.	DATE	DESCRIPTION	BY
REVISIONS			
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD05-08.dwg			
CTB FILE: COMM-TECH D-SIZE: BW.ctb			
PLOT DATE: July 2, 2019 1:39:46 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

DESIGN DATA:
SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒ DETACHED ☐
DESIGN SPEED: 25 MPH
CURB TYPE ☒ A ☐ B ☐ C ☐ D ☐ E
ROW WIDTH 50' FL-FL 32'
STREET TYPE RESIDENTIAL

PAVEMENT:
TYPE: HMA ☐ PCC ☐
THICKNESS: _____

COMPOSITE SECTION:
HMA _____ BASE _____



REVIEW:
STREET DESIGN: _____
CURB & GUTTER REVIEW _____ DATE: _____
FINAL REVIEW _____ DATE: _____
DRAINAGE DESIGN: _____
BY: _____ DATE: _____
TRAFFIC DESIGN: _____
BY: _____ DATE: _____

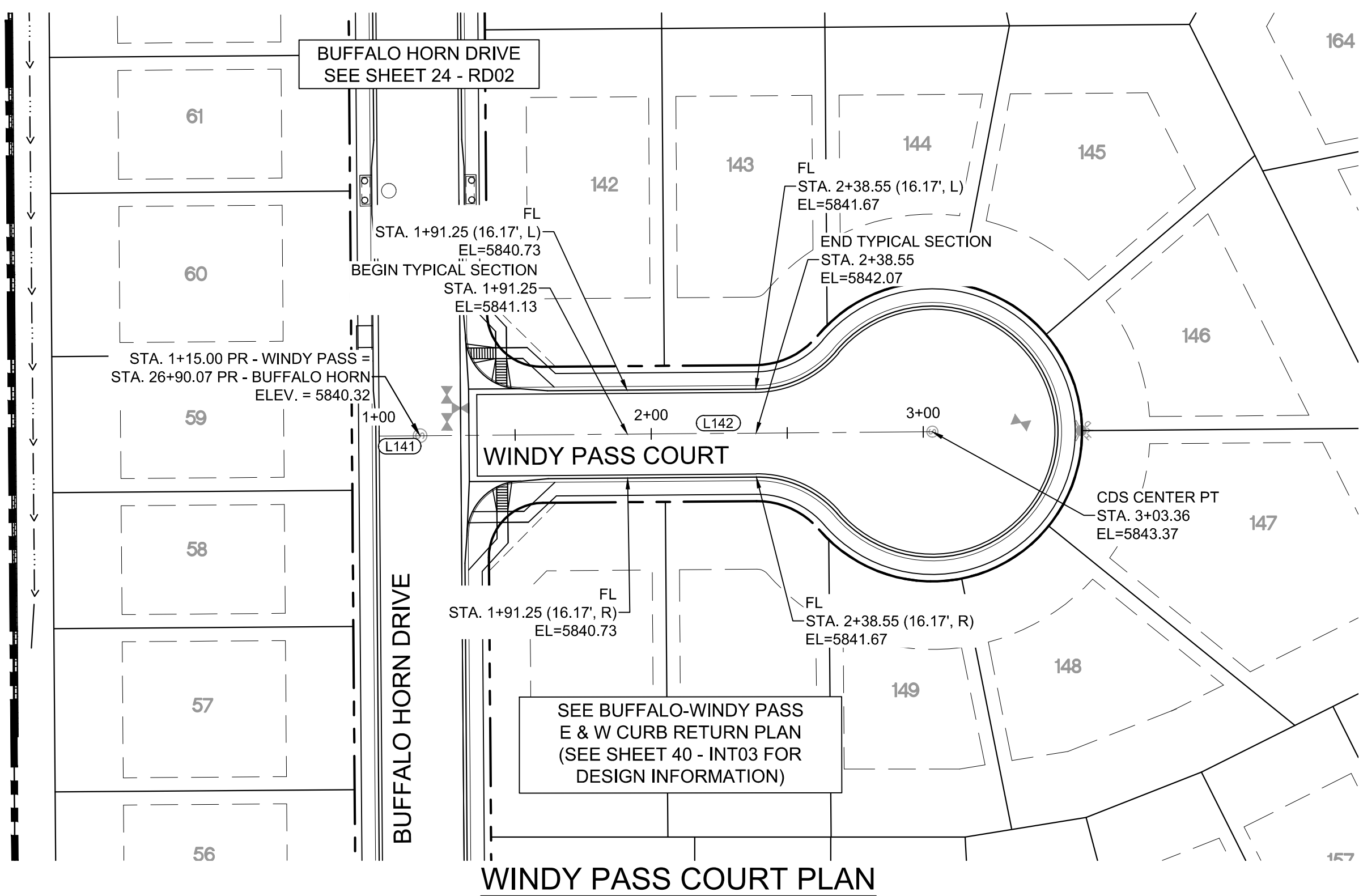
**Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.*



SEAL

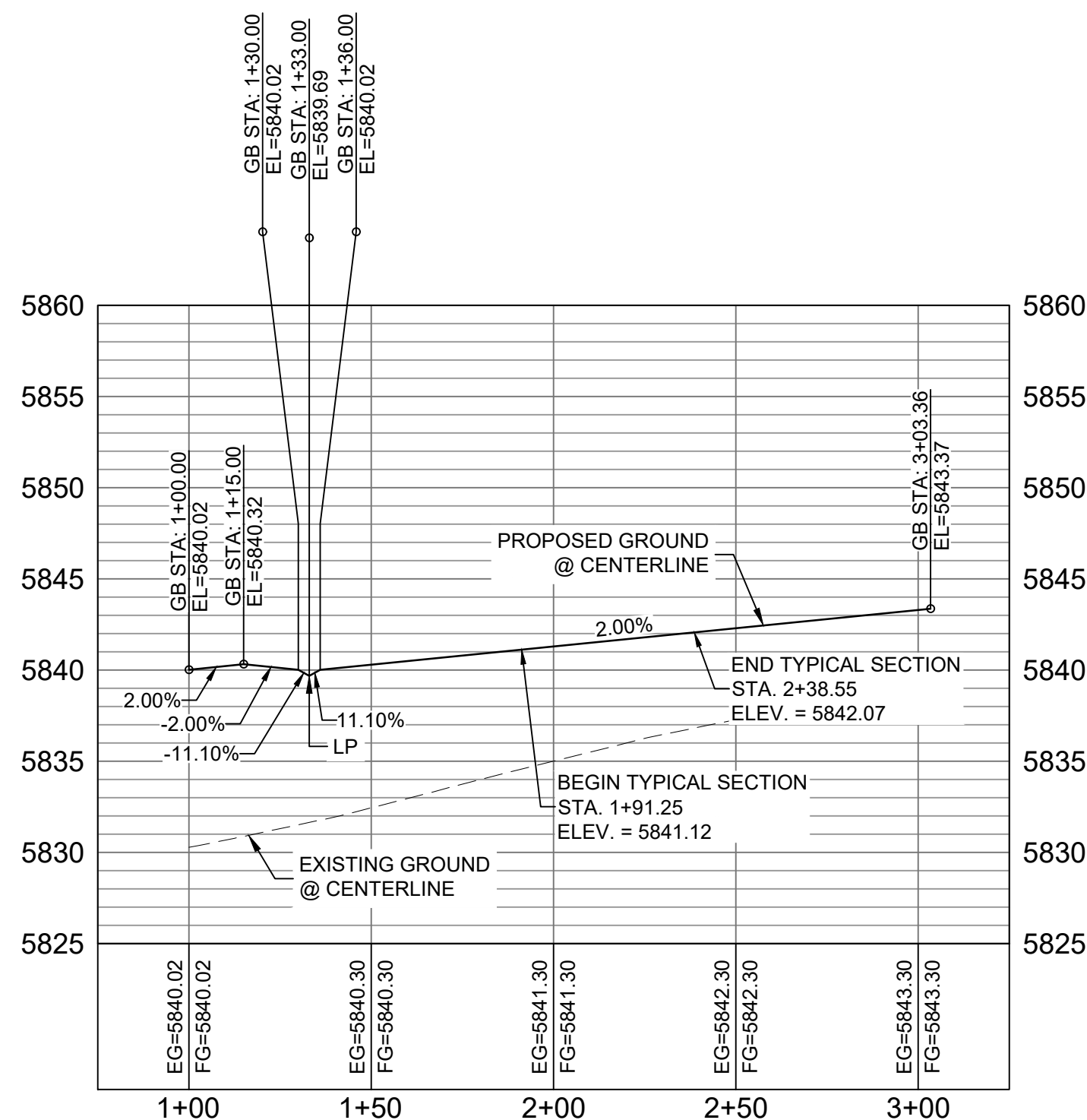
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE			
FILING NO. 1			
ROADWAY & STORMDRAIN IMPROVEMENT PLANS			
ROADWAY PLAN & PROFILE			
DESIGNED BY: NMS	SCALE: 1"=40'	DATE ISSUED: JULY, 2019	DRAWING No. RD07
CHECKED BY: NMS	VERT. 1"=8'	SHEET 29 OF 71	

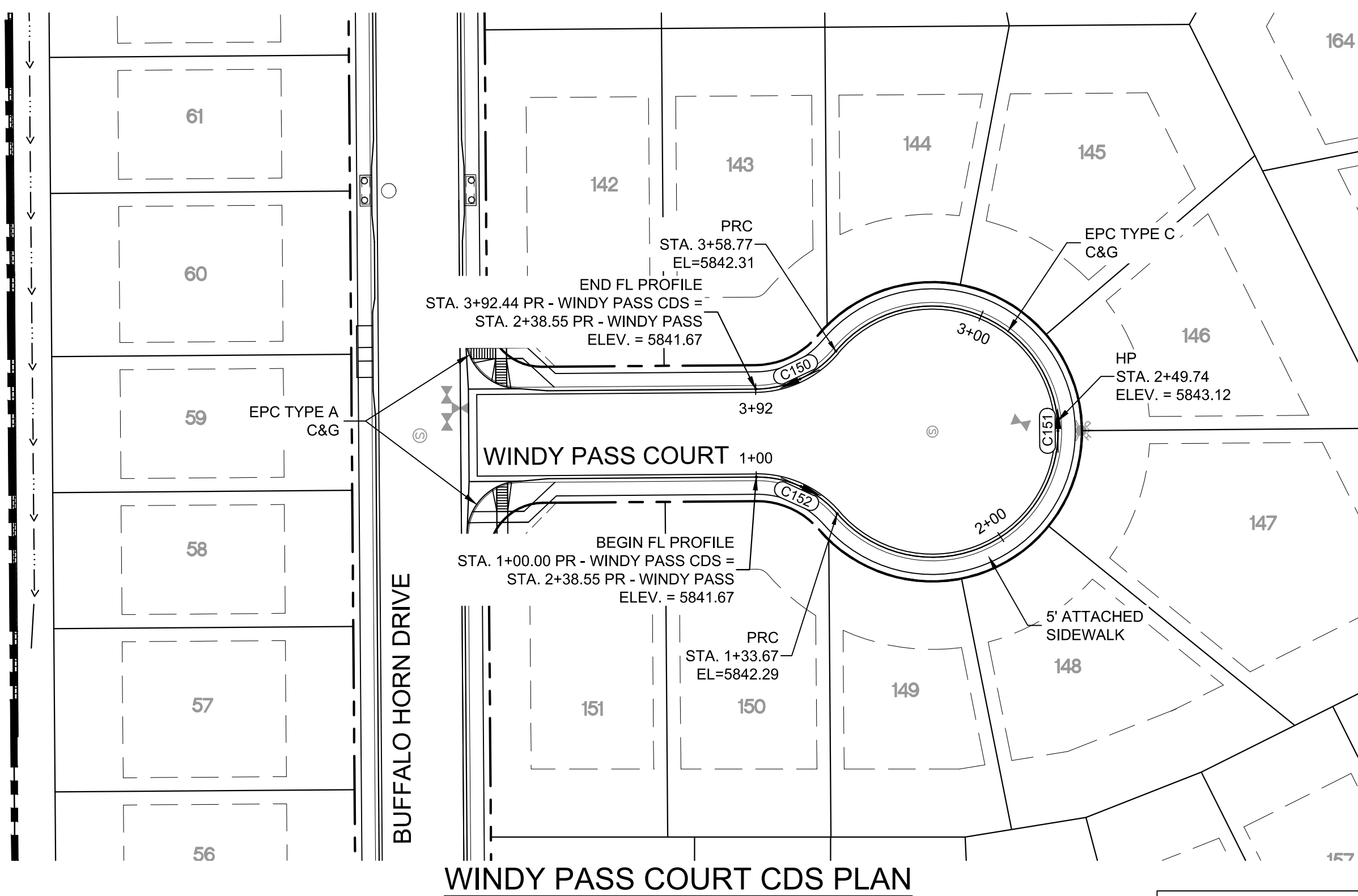
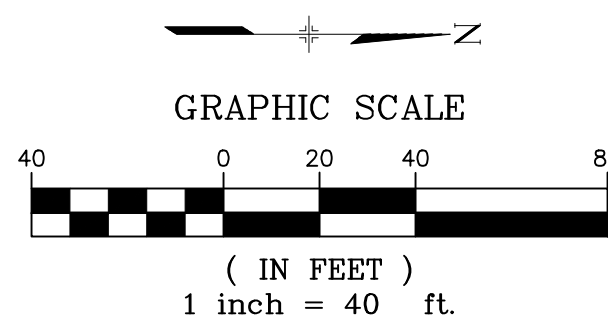
Know what's below.
Call before you dig.

WINDY PASS COURT PLAN

LINE TABLE		
LINE #	BEARING	DISTANCE
L141	N00°26'25"W	15.00
L142	N00°26'25"W	188.36

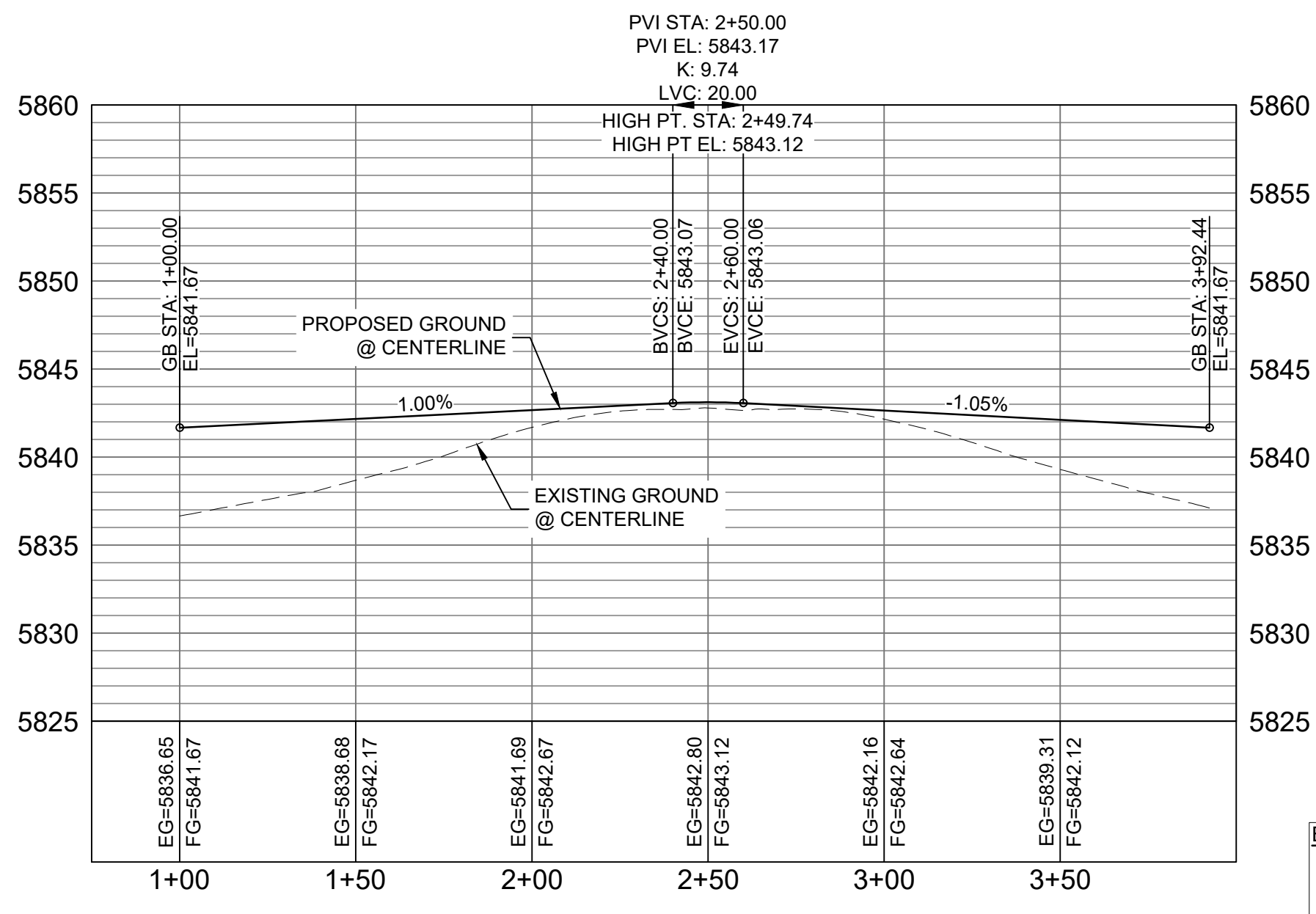


WINDY PASS COURT CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

WINDY PASS COURT CDS PLAN

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C150	33.67	38.83	49°40'47"
C151	225.10	46.17	279°21'34"
C152	33.67	38.83	49°40'47"



WINDY PASS COURT CDS CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH
DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE
NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS
BOULEVARD,
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST
QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF
THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST
CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4
CORNER OF SAID SECTION 9 (3 1/2" AULM. CAP PLS 10377)

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD05-08.dwg			
CTB FILE: COMM-TECH D-SIZE_BW.ctb			
PLOT DATE: July 2, 2019 1:40:14 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

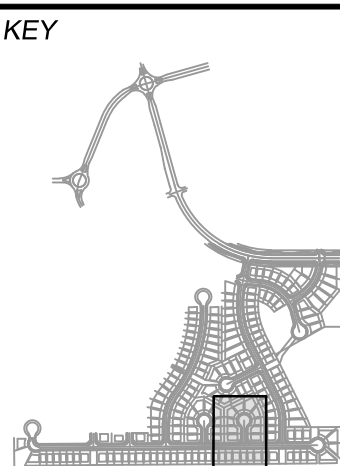
DESIGN DATA:

SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒ DETACHED ☐
DESIGN SPEED: 25 MPH
CURB TYPE ☒ A ☐ B ☐ C ☐ D ☐ E
ROW WIDTH 50' FL-FL 32'
STREET TYPE RESIDENTIAL

PAVEMENT:
TYPE: HMA ☐ PCC ☐
THICKNESS:

COMPOSITE SECTION:
HMA ☐ BASE ☐

SHEET KEY



REVIEW:

STREET DESIGN:
CURB & GUTTER REVIEW _____ DATE: _____
FINAL REVIEW _____ DATE: _____
DRAINAGE DESIGN:
BY: _____ DATE: _____
TRAFFIC DESIGN:
BY: _____ DATE: _____

*Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:

Matrix
DESIGN GROUP

SEAL

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

ROADWAY PLAN & PROFILE

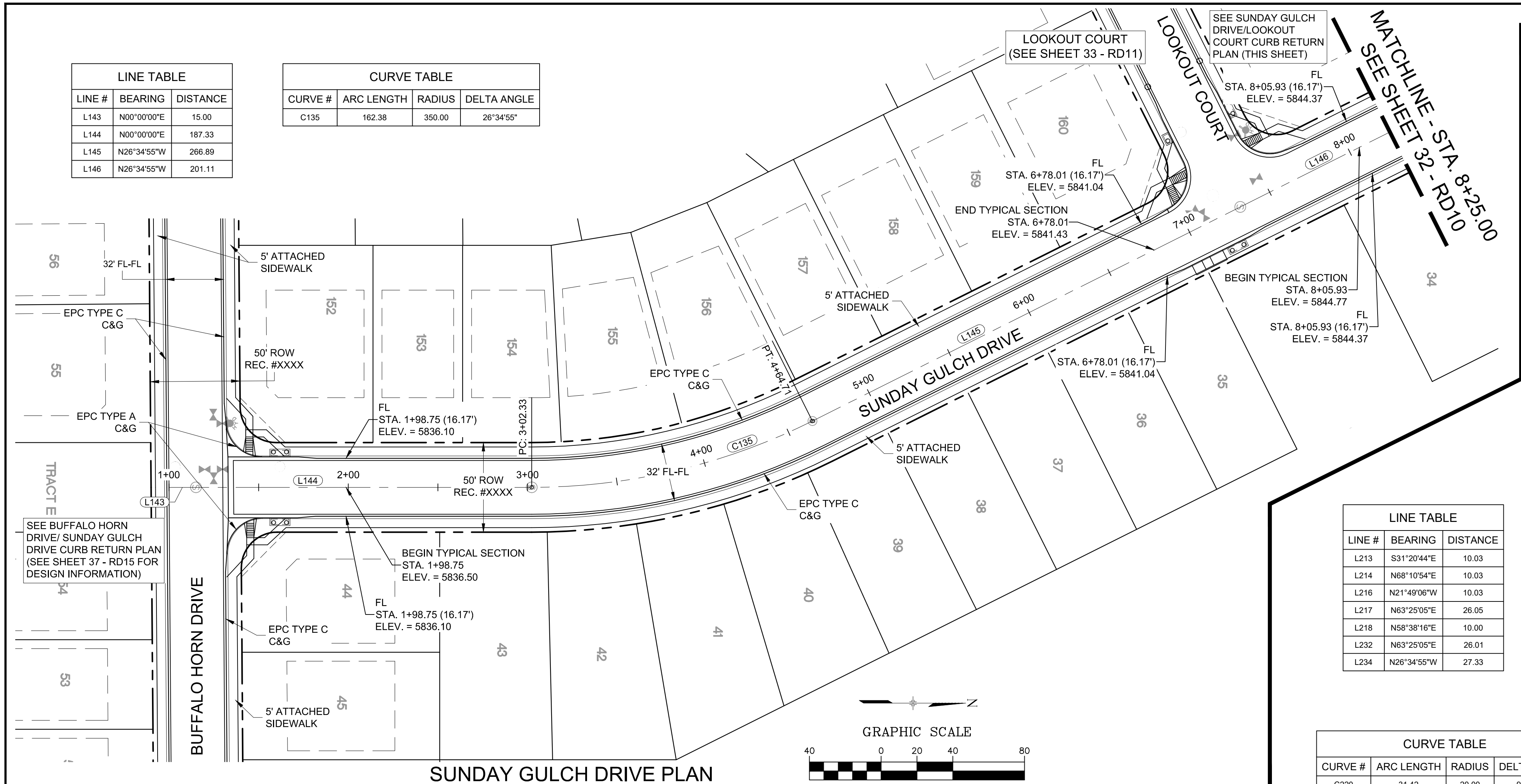
DESIGNED BY:	NMS	SCALE	DATE ISSUED:	JULY, 2019	DRAWING No.
DRAWN BY:	TJC	HORIZ: 1"=40'	SHEET	30 OF 71	RD08
CHECKED BY:	NMS	VERT: 1"=8'			



Know what's below.
Call before you dig.

LINE TABLE		
LINE #	BEARING	DISTANCE
L143	N00°00'00"E	15.00
L144	N00°00'00"E	187.33
L145	N26°34'55"W	266.89
L146	N26°34'55"W	201.11

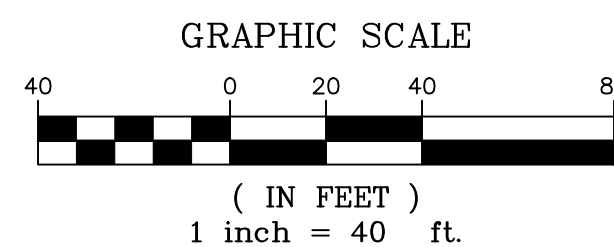
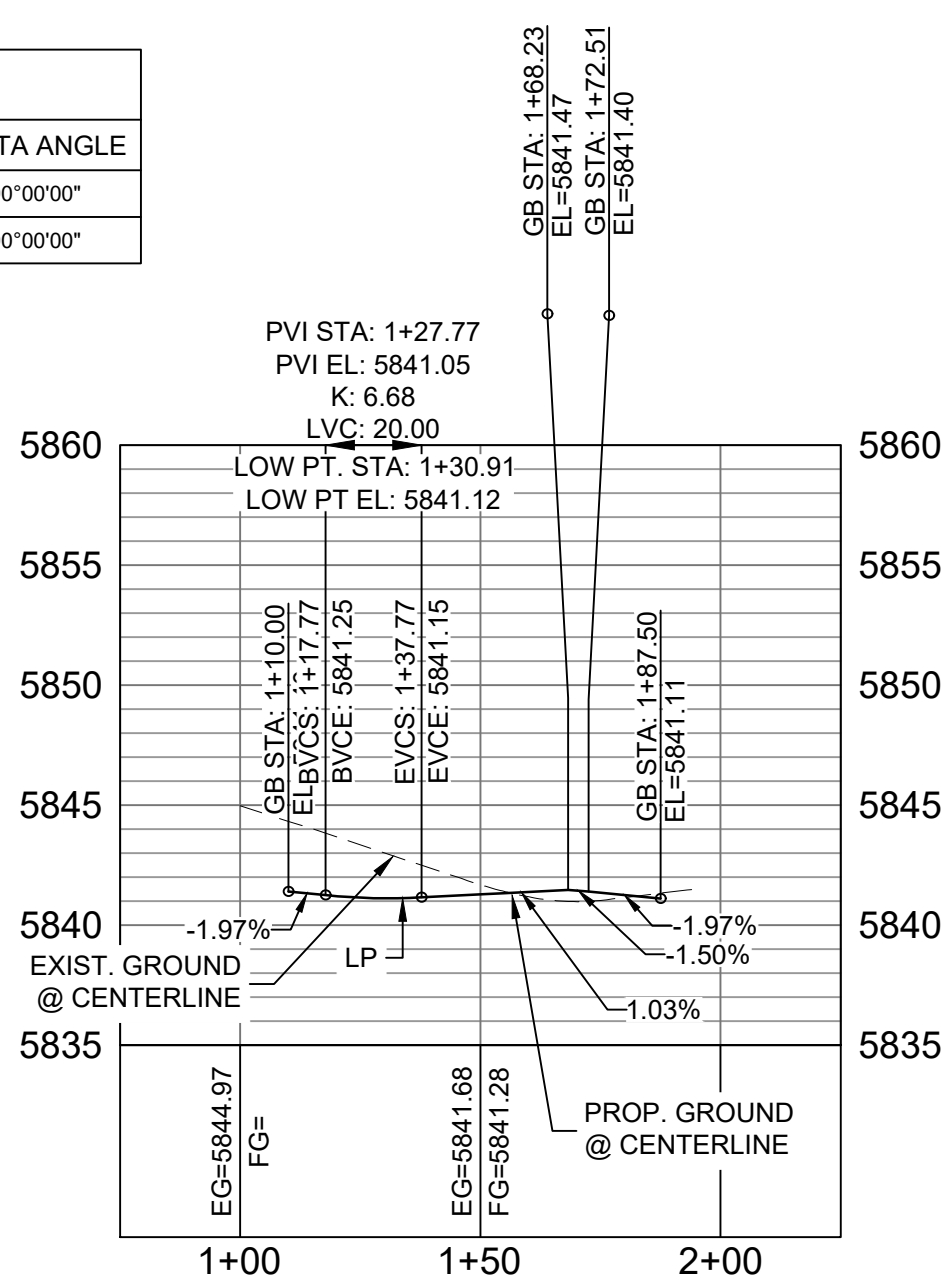
CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C135	162.38	350.00	26°34'55"



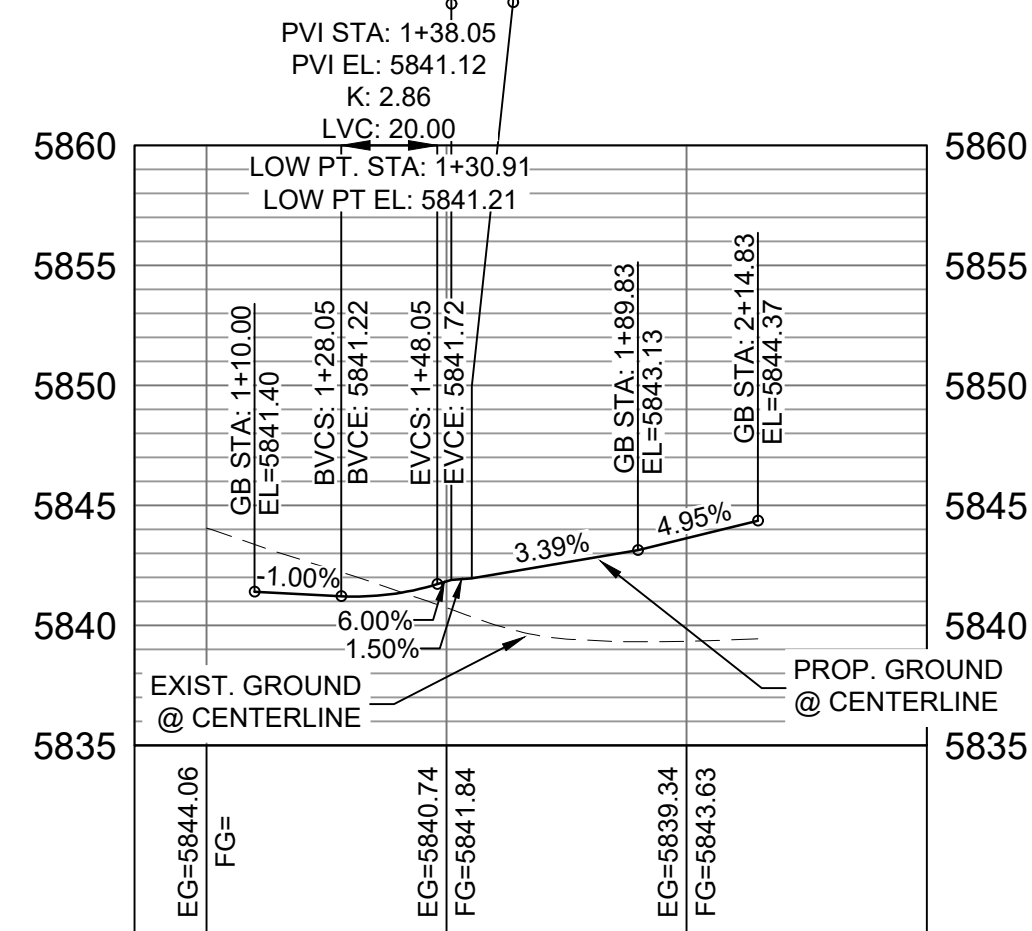
SUNDAY GULCH DRIVE PLAN

LINE TABLE		
LINE #	BEARING	DISTANCE
L213	S31°20'44"E	10.03
L214	N68°10'54"E	10.03
L216	N21°49'06"W	10.03
L217	N63°25'05"E	26.05
L218	N58°38'16"E	10.00
L232	N63°25'05"E	26.01
L234	N26°34'55"W	27.33

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C220	31.42	20.00	90°00'00"
C225	31.42	20.00	90°00'00"

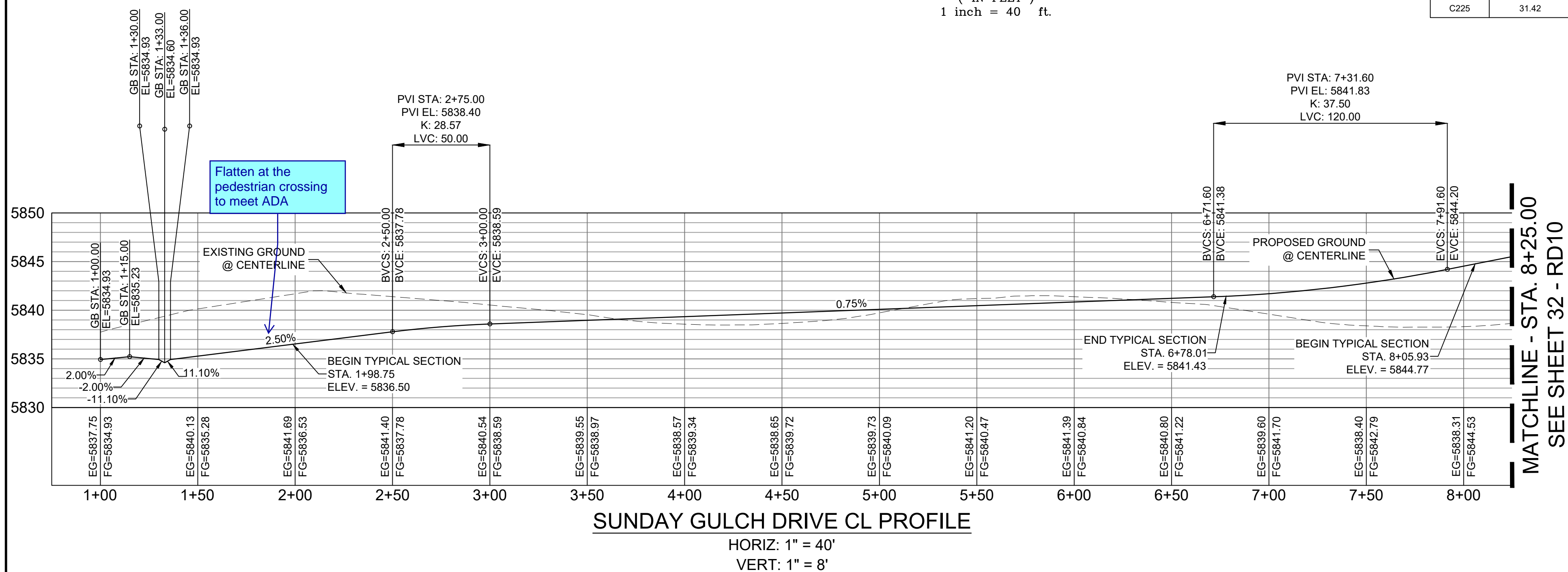
SUNDAY GULCH DRIVE/
LOOKOUT COURT
CURB RETURNS PLANSUNDAY GULCH DRIVE /
LOOKOUT COURT SOUTH FL
CURB RETURN PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

SUNDAY GULCH DRIVE /
LOOKOUT COURT NORTH FL
CURB RETURN PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH
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CORNER OF SAID SECTION 9 (3 1/2" AULM. CAP PLS 10377)



SUNDAY GULCH DRIVE CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

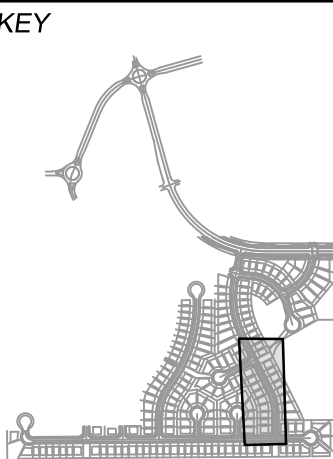
DESIGN DATA:

SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒ DETACHED ☐
DESIGN SPEED: 25 MPH
CURB TYPE ☒ A ☐ B ☐ C ☐ D ☐ E
ROW WIDTH 50' FL-FL 32'
STREET TYPE RESIDENTIAL

PAVEMENT:
TYPE: HMA ☐ PCC ☐
THICKNESS:

COMPOSITE SECTION:
HMA ☐ BASE ☐

SHEET KEY



REVIEW:

STREET DESIGN:
CURB & GUTTER REVIEW _____ DATE: _____
FINAL REVIEW _____ DATE: _____
DRAINAGE DESIGN:
BY: _____ DATE: _____
TRAFFIC DESIGN:
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PREPARED BY:

Matrix
DESIGN GROUP

SEAL

FOR AND ON BEHALF OF
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PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

ROADWAY PLAN & PROFILE

DESIGNED BY: NMS
DRAWN BY: TJC
CHECKED BY: NMS
SCALE: 1"=40'
DATE ISSUED: JULY, 2019
SHEET: 31 OF 71
DRAWING No. RD09

No.	DATE	DESCRIPTION	BY
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COMPUTER FILE MANAGEMENT

FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD09-12.dwg
CTB FILE: July 2, 2019 1:42:02 PM
PLOT DATE: July 2, 2019 1:42:02 PM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

SEE FALLING ROCK DRIVE / SUNDAY GULCH DRIVE CURB RETURN PLAN (SEE SHEET 36 - RD14 FOR DESIGN INFORMATION)

EPC TYPE A C&G

FL STA. 14+57.28 (16.17') ELEV. = 5856.53

BEGIN TYPICAL SECTION STA. 14+57.28 ELEV. = 5856.92

FL STA. 15+17.86 (16.17') ELEV. = 5857.20

END TYPICAL SECTION STA. 15+17.97 ELEV. = 5857.60

FL STA. 15+99.52 PR - SUNDAY GULCH = STA. 23+70.53 PR - LEGACY ELEV. = 5859.09

LEGACY DRIVE SEE SHEET 9 - RD03-L

Update Legacy Drive linework to solid black.

FL STA. 14+57.28 (16.17') ELEV. = 5856.53

FL STA. 15+17.86 (16.17') ELEV. = 5857.20

FL STA. 14+57.28 (16.17') ELEV. = 5856.53

FL STA. 13+62.62 (16.17') ELEV. = 5855.58

PT. 13+79.44

14+00

15+00

16+00

SUNDAY GULCH DRIVE

FALLING ROCK DRIVE

LEGACY DRIVE

PLAN

Revise to ROW. Per ECM Appendix F Detail SD_2-40 the sidewalk bump out is fully located within public ROW. Typical for all intersections.

Unresolved.

80'

FL

SEWER

ROW TRIANGLE

EXPANSION

5' ATTACHED SIDEWALK

32' FL-FL

50' ROW REC. #XXXX

12+00

13+00

11+00

10+00

9+00

PC 9+32.71

173

174

175

176

177

178

179

180

181

23

22

28

27

26

25

30

31

32

33

C136

C147

C148

PC 9+32.71

STA. 13+62.62 (16.17') ELEV. = 5855.58

STA. 13+62.62 (16.17') ELEV. = 5855.98

STA. 14+09.46 PR - SUNDAY GULCH = STA. 10+32.78 PR - FALLING ROCK ELEV. = 5856.44

FL STA. 13+62.62 (16.17') ELEV. = 5855.58

FL STA. 13+62.62 (16.17') ELEV. = 5855.98

FL STA. 14+09.46 PR - SUNDAY GULCH = STA. 10+32.78 PR - FALLING ROCK ELEV. = 5856.44

FL STA. 14+57.28 (16.17') ELEV. = 5856.53

FL STA. 15+17.86 (16.17') ELEV. = 5857.20

FL STA. 15+99.52 PR - SUNDAY GULCH = STA. 23+70.53 PR - LEGACY ELEV. = 5859.09

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FL STA. 13+62.62 (16.17') ELEV. = 5855.98

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FL STA. 13+62.62 (16.17') ELEV. = 5855.98

FL STA. 14+09.46 PR - SUNDAY GULCH = STA. 10+32.78 PR - FALLING ROCK ELEV. = 5856.44

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FL STA. 15+17.86 (16.17') ELEV. = 5857.20

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FL STA. 14+09.46 PR - SUNDAY GULCH = STA. 10+32.78 PR - FALLING ROCK ELEV. = 5856.44

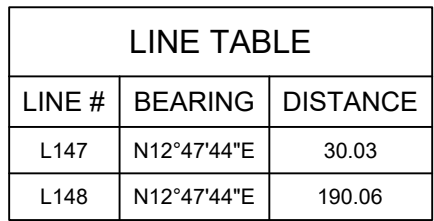
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FL STA. 15+99.52 PR - SUNDAY GULCH = STA. 23+70.53 PR - LEGACY ELEV. = 5859.09

FL STA. 15+17.86 (16.17') ELEV. = 5857.20

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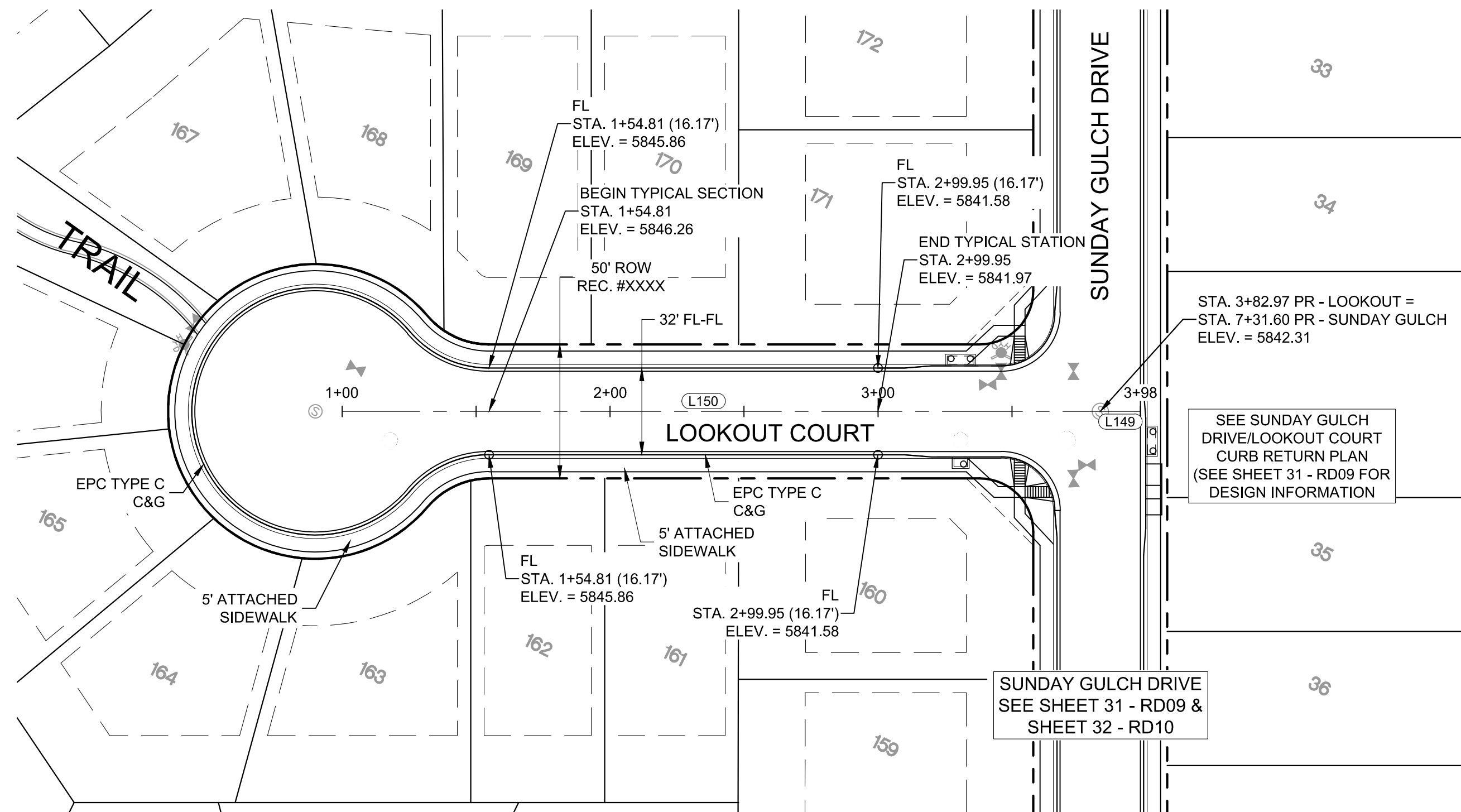


CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C136	446.72	650.00	39°22'39"

BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH
DIAMETER ALUMINUM CAP IN A ROAD BOSS. LOCATED ON THE
NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS
BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

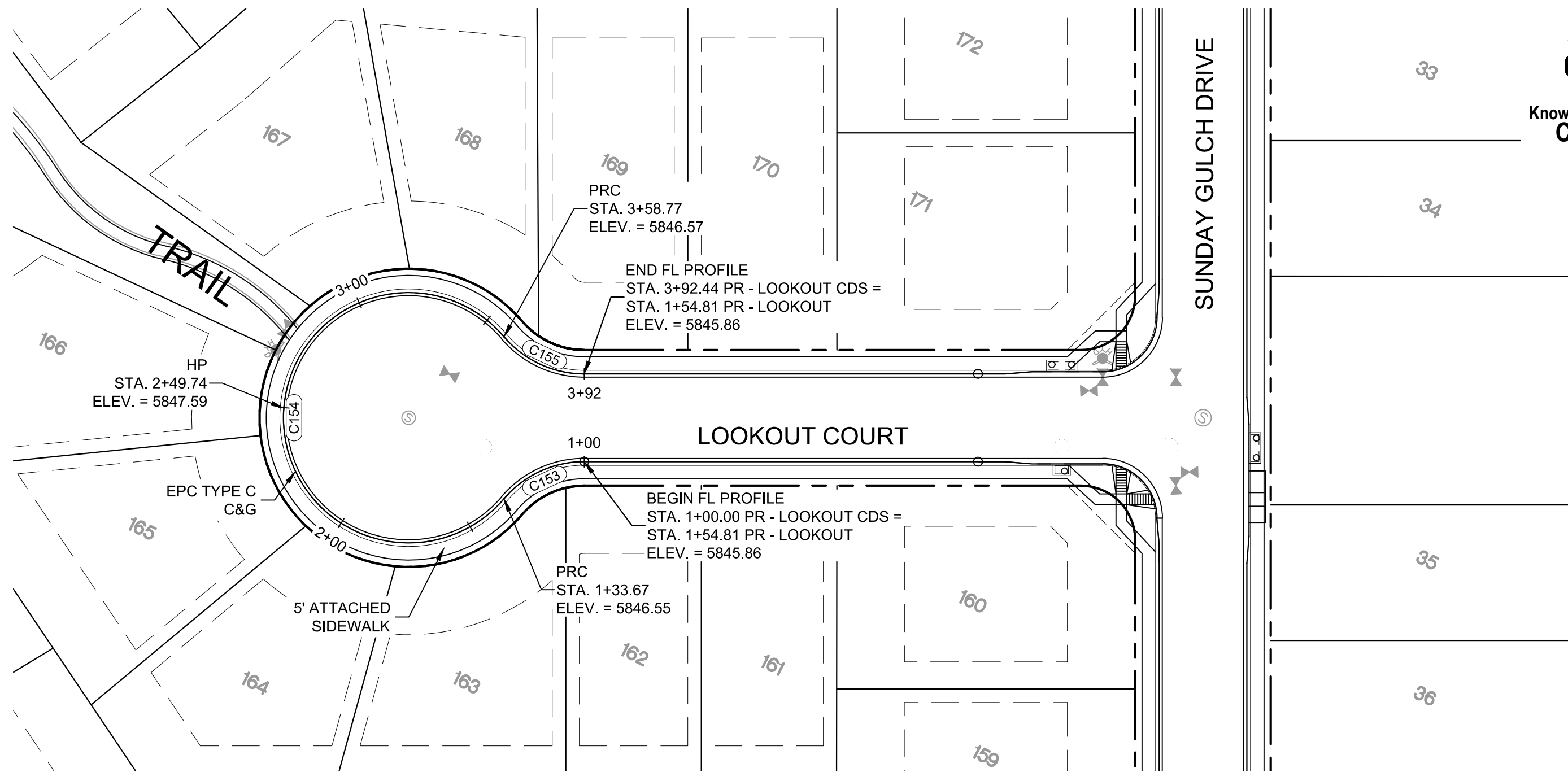
BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE WEST
QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST
OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST
CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4
CORNER OF SAID SECTION 9 (3 1/4" AULM. CAP PLS 10377)

[illegible]

Know what's below.
Call before you dig.

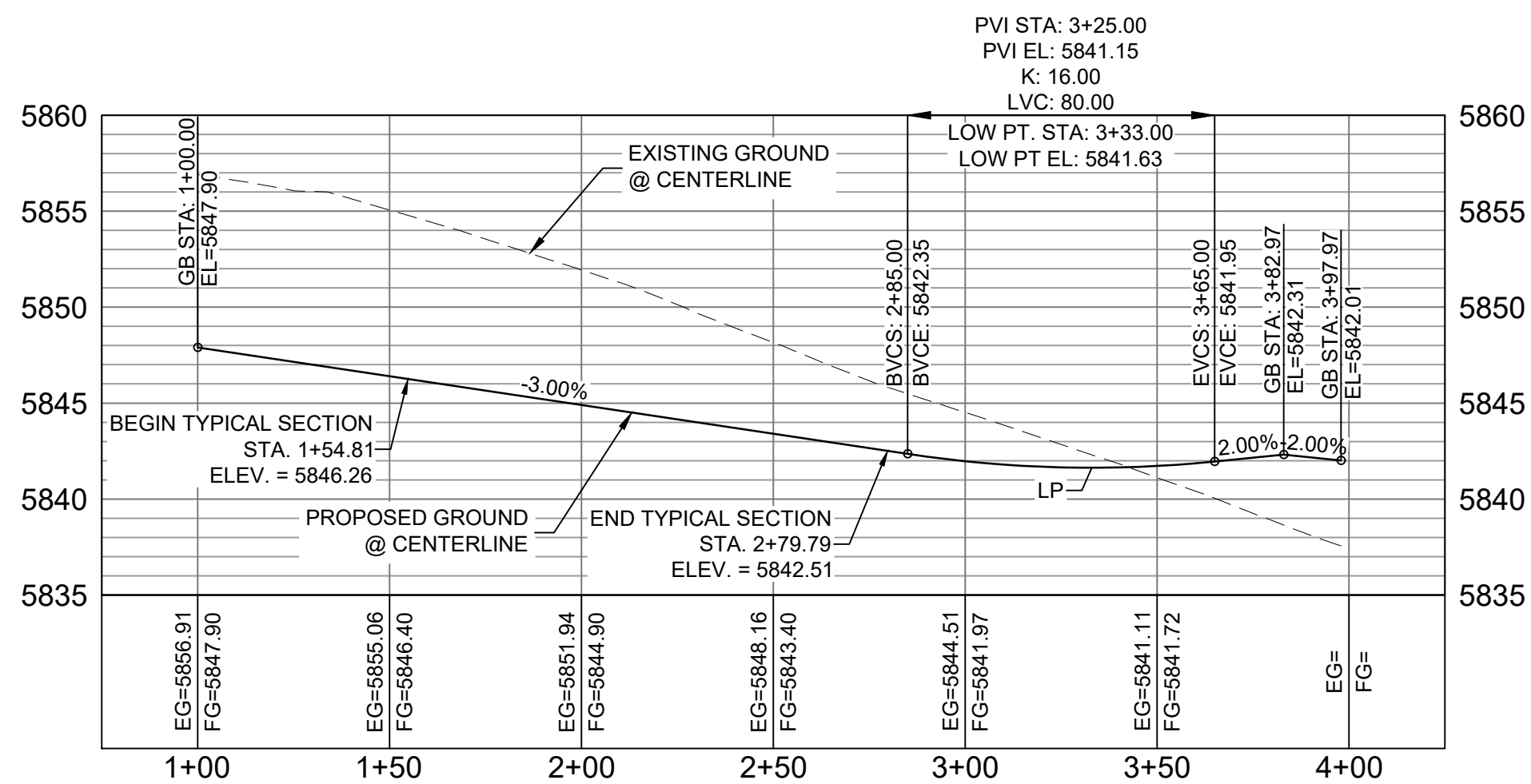
LOOKOUT COURT PLAN

LINE TABLE		
LINE #	BEARING	DISTANCE
L149	N63°25'05"E	15.00
L150	N63°25'05"E	282.97

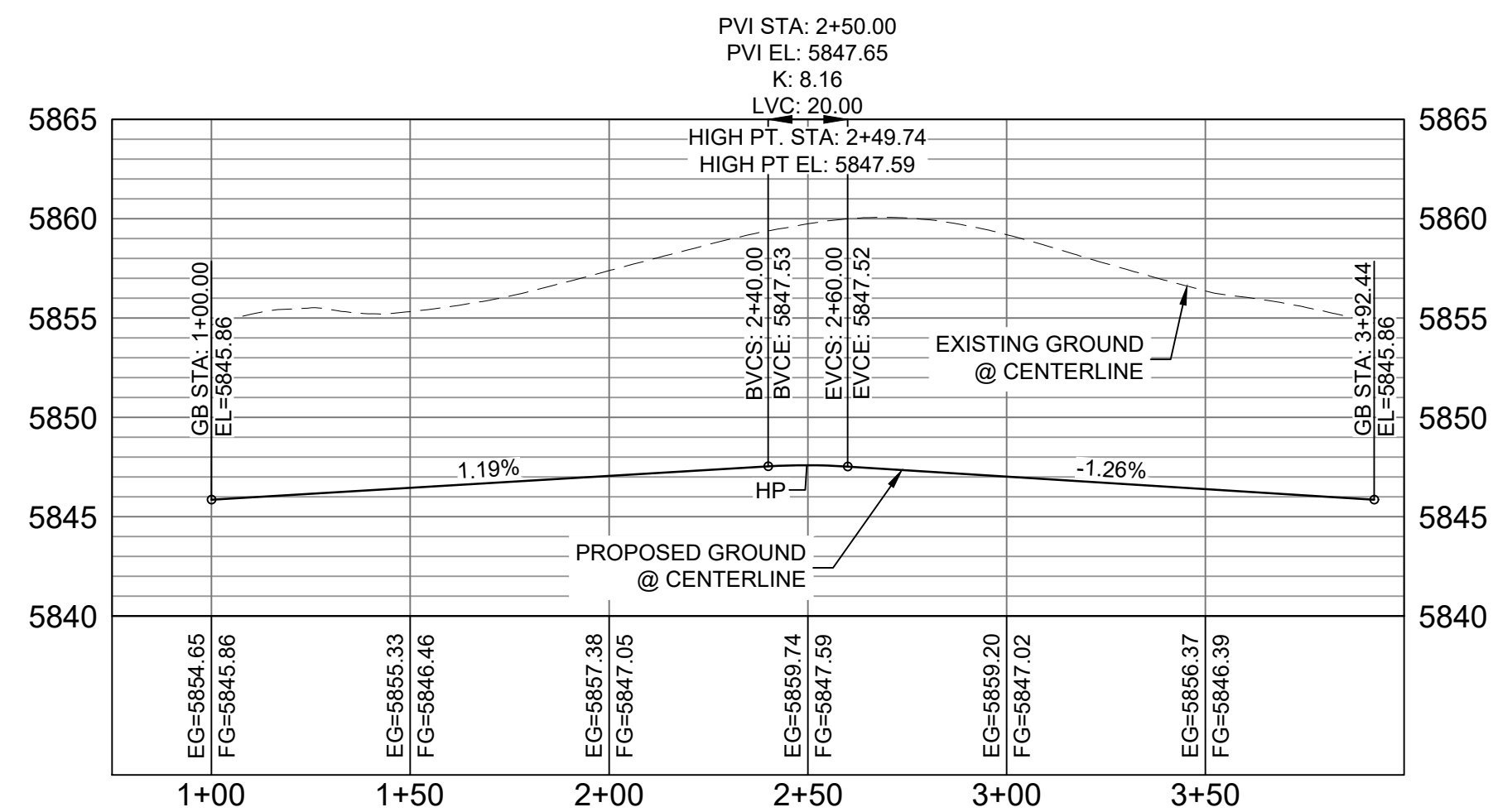


LOOKOUT COURT CDS PLAN

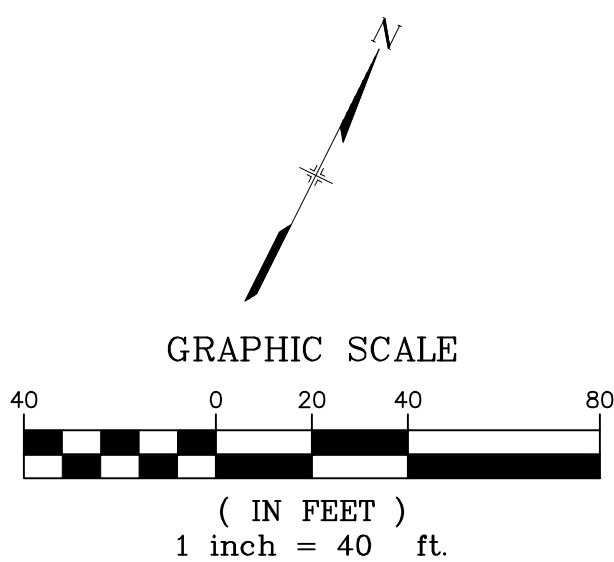
CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C153	33.67	38.83	49°40'47"
C154	225.10	46.17	279°21'34"
C155	33.67	38.83	49°40'47"



LOOKOUT COURT CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

LOOKOUT COURT CDS CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

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BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST
QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF
THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST
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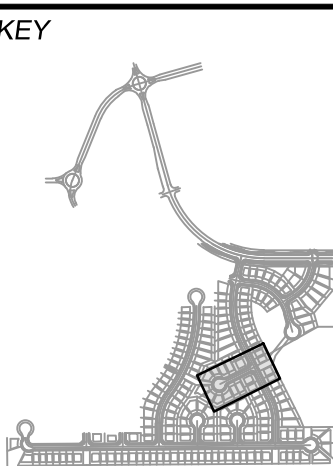
No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD09-12.dwg			
CTB FILE: July 2, 2019 1:43:20 PM			
PLOT DATE: July 2, 2019 1:43:20 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

DESIGN DATA:

SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒ DETACHED ☐
DESIGN SPEED: 25 MPH
CURB TYPE ☒ A ☐ B ☐ C ☐ D ☐ E COMPOSITE SECTION:
ROW WIDTH 50' FL-FL 32' HMA BASE
STREET TYPE RESIDENTIAL

PAVEMENT:
TYPE: HMA ☐ PCC ☐
THICKNESS:

SHEET KEY



REVIEW:

STREET DESIGN:
CURB & GUTTER REVIEW DATE:
FINAL REVIEW DATE:
DRAINAGE DESIGN:
BY: DATE:
TRAFFIC DESIGN:
BY: DATE:

*Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:



SEAL

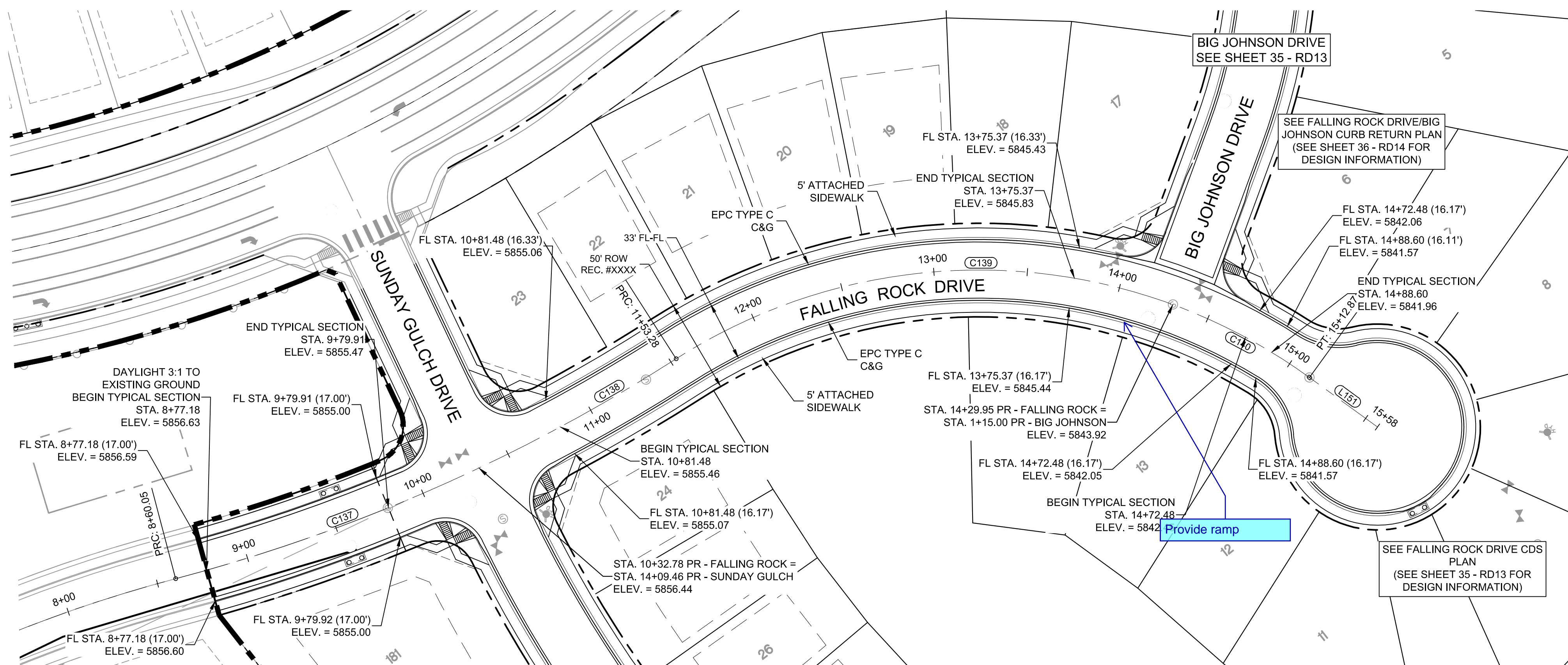
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE

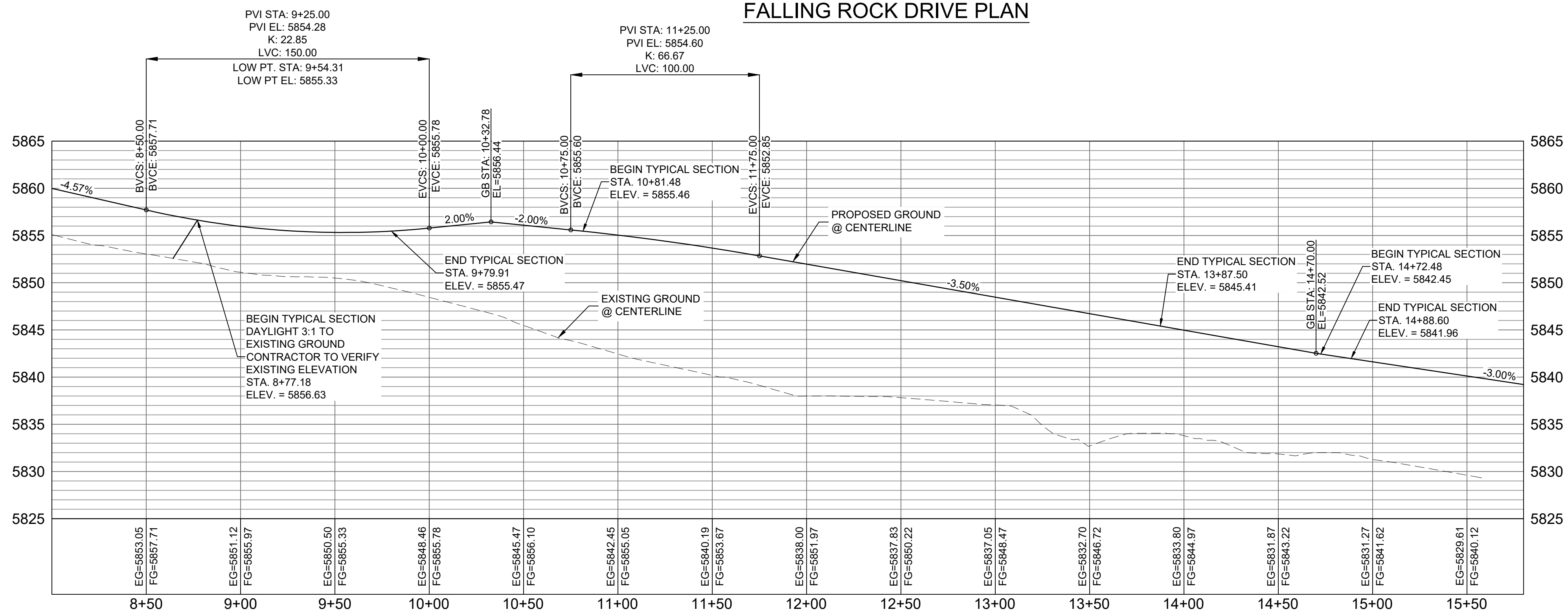
FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

ROADWAY PLAN & PROFILE

DESIGNED BY:	NMS	SCALE	DATE ISSUED:	JULY, 2019	DRAWING No.
DRAWN BY:	TJC	HORIZ.	1"=40'		RD11
CHECKED BY:	NMS	VERT.	1"=8'		

Know what's below.
Call before you dig.

FALLING ROCK DRIVE PLAN



FALLING ROCK DRIVE CL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

LINE TABLE		
LINE #	BEARING	DISTANCE
L151	S15°53'58"E	44.94

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C137	155.60	940.00	9°29'04"
C138	120.50	940.00	7°20'42"
C139	276.67	300.00	52°50'26"
C140	82.92	300.00	15°50'13"

BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNITSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH
DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE
NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS
BOULEVARD,
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST
QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF
THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST
CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4
CORNER OF SAID SECTION 9 (3 1/4" AULM. CAP PLS 10377)

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Plan Sets\Construction Plans\Road & Storm Plans\RD09-12.dwg			
CTB FILE: ---			
PLOT DATE: July 2, 2019 1:43:45 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

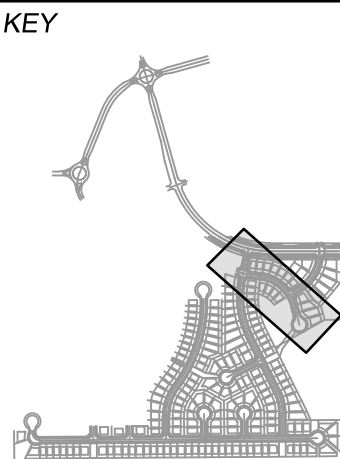
DESIGN DATA:

SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒ DETACHED ☐
DESIGN SPEED: 25 MPH
CURB TYPE ☒ A ☐ B ☐ C ☐ D ☐ E
ROW WIDTH 50' FL-FL 32'
STREET TYPE RESIDENTIAL

PAVEMENT:
TYPE: HMA ☐ PCC ☐
THICKNESS:

COMPOSITE SECTION:
HMA ☐ BASE ☐

SHEET KEY



REVIEW:

STREET DESIGN:
CURB & GUTTER REVIEW _____ DATE: _____
FINAL REVIEW _____ DATE: _____
DRAINAGE DESIGN:
BY: _____ DATE: _____
TRAFFIC DESIGN:
BY: _____ DATE: _____

*Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:



SEAL

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE

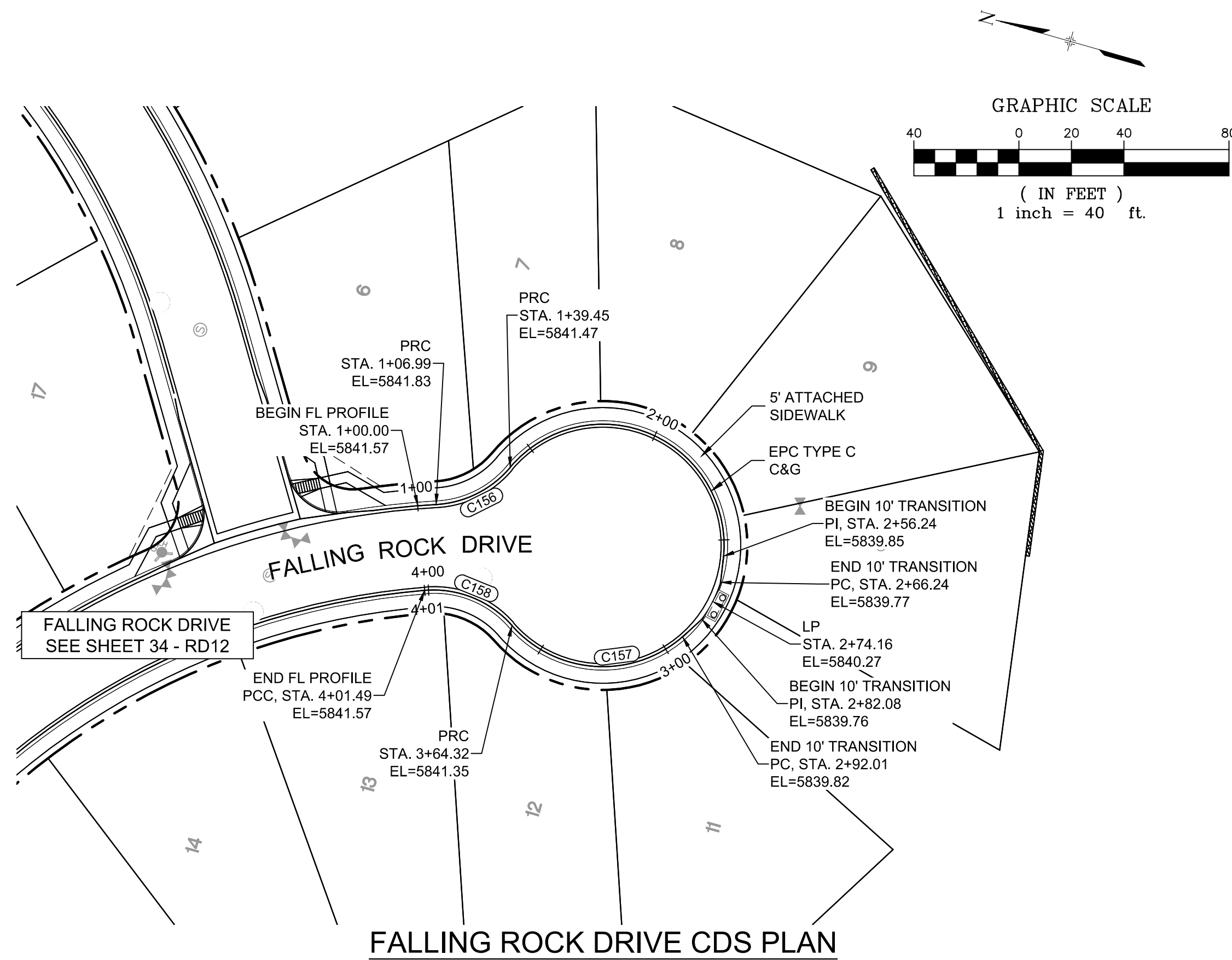
FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

ROADWAY PLAN & PROFILE

DESIGNED BY:	NMS	SCALE:	DATE ISSUED:	JULY, 2019	DRAWING No.
DRAWN BY:	TJC	HORIZ:	1"=40'		RD12
CHECKED BY:	NMS	VERT:	1"=8'	SHEET	34 OF 71

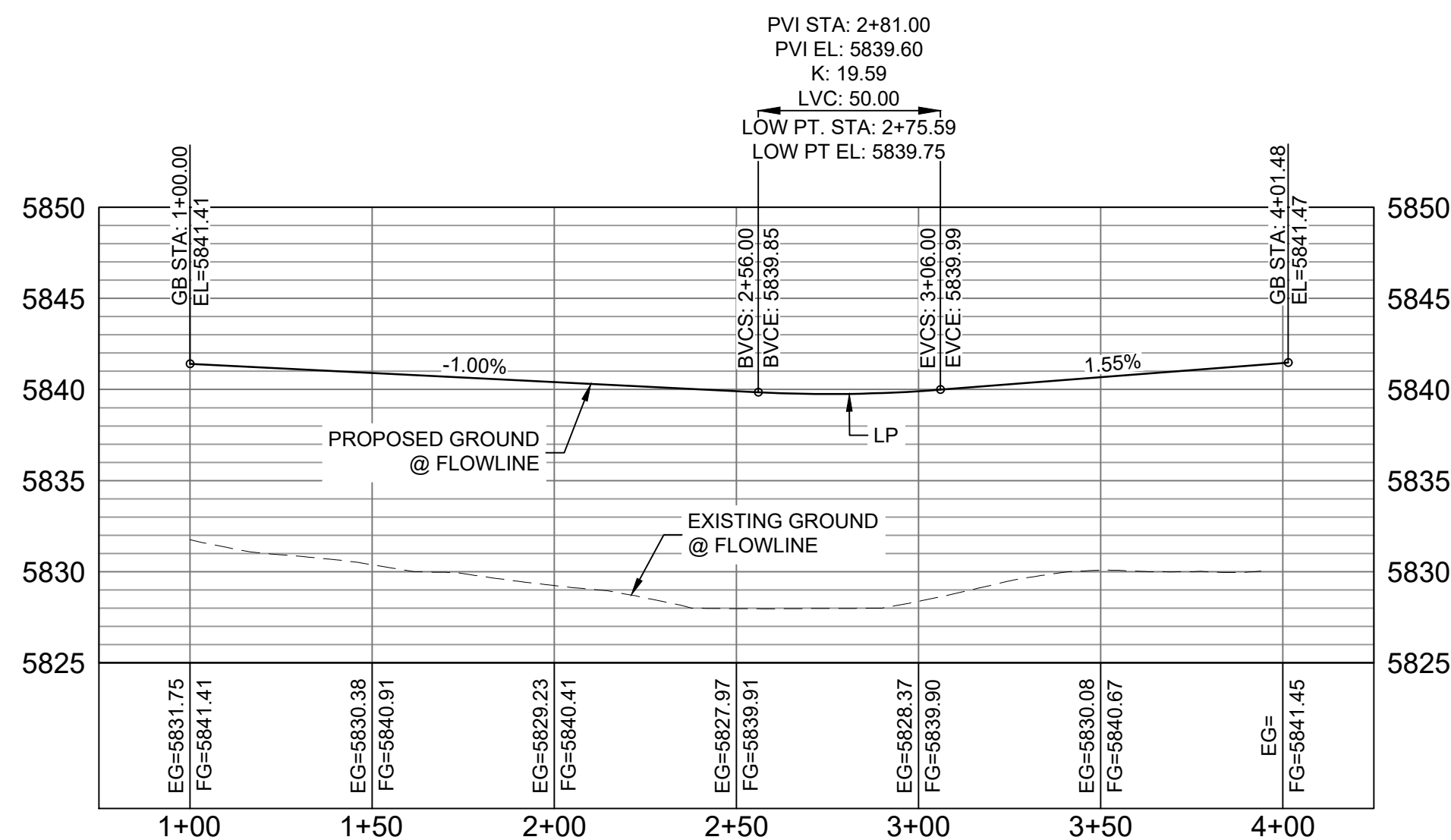


Know what's below.
Call before you dig.



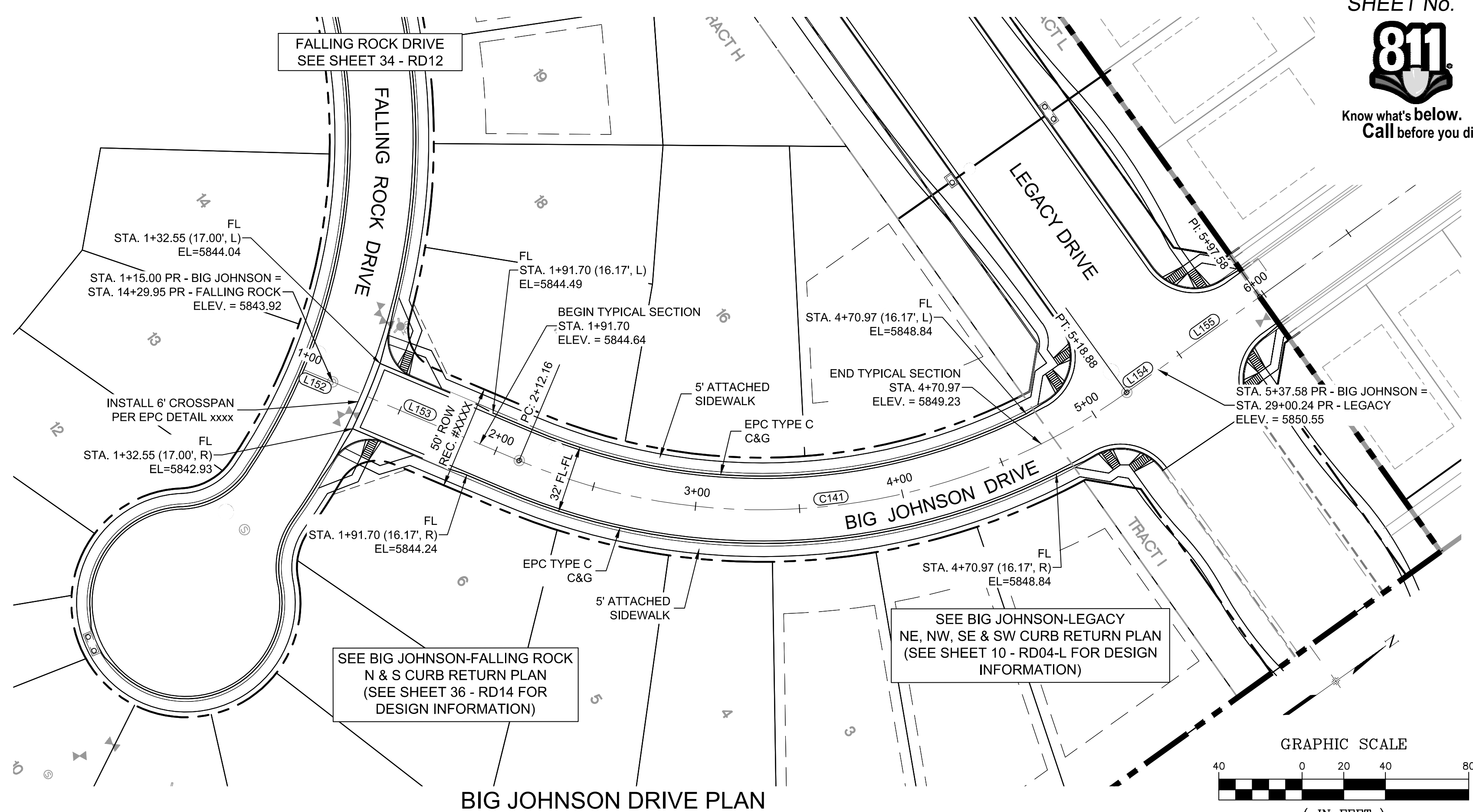
LINE TABLE		
LINE #	BEARING	DISTANCE

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C156	32.45	40.00	46°29'11"
C157	72.23	46.17	89°38'41"
C158	37.17	40.00	53°14'57"



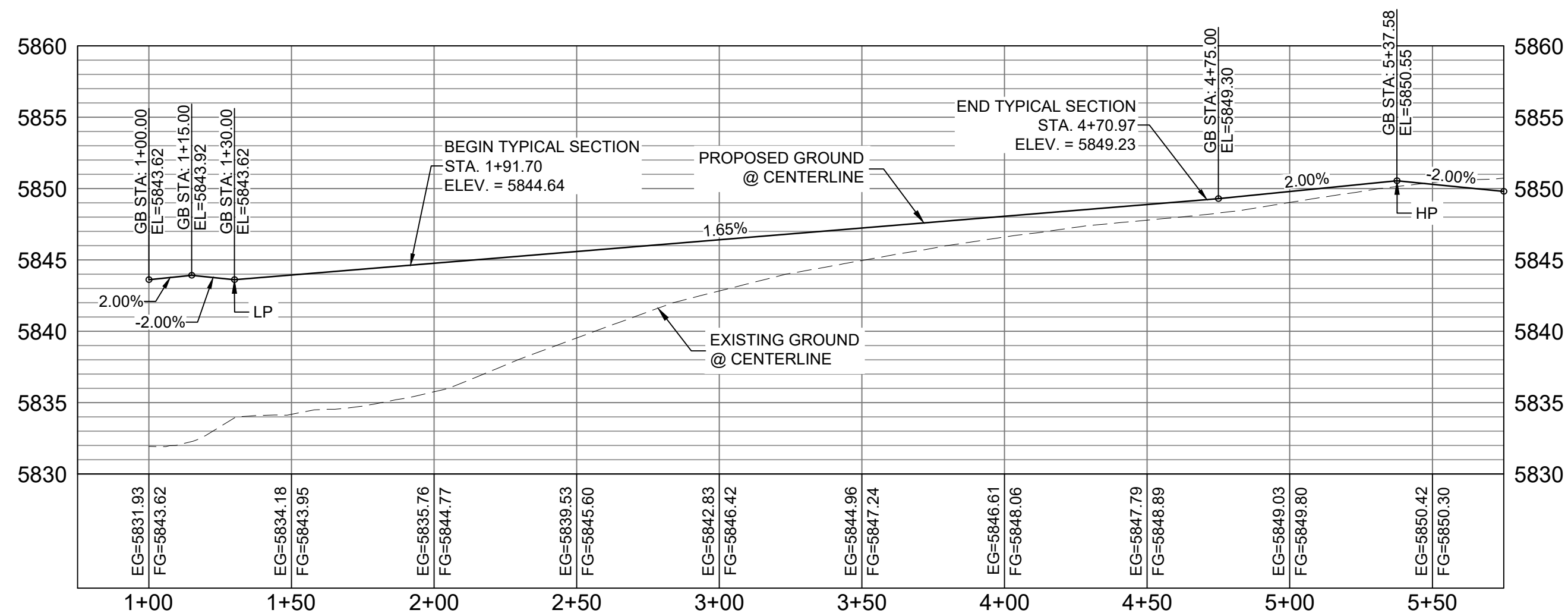
FALLING ROCK CDS FL PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'



LINE TABLE		
LINE #	BEARING	DISTANCE
L152	N8°15'49"E	15.00
L153	N8°15'49"E	97.16
L154	N00°18'57"W	18.70
L155	N00°18'57"W	60.00

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C141	306.72	300.00	58°34'46"



HORIZ: 1" = 40'
VERT: 1" = 8'

BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH
DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE
NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS
BOULEVARD,
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST
QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF
THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST
CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4
CORNER OF SAID SECTION 9 (3 1/2" AULM. CAP PLS 10377)

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD13-15.dwg			
CTB FILE: July 2, 2019 1:45:24 PM			
PLOT DATE: July 2, 2019 1:45:24 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

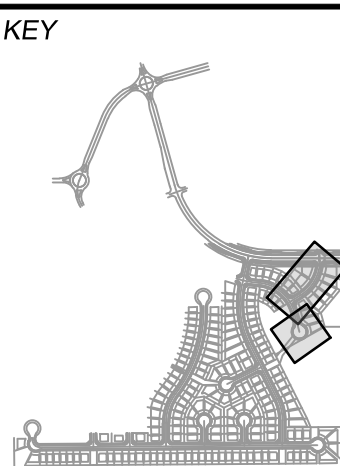
DESIGN DATA:

SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒ DETACHED ☐
DESIGN SPEED: 25 MPH
CURB TYPE ☒ A ☐ B ☐ C ☐ D ☐ E
ROW WIDTH 50' FL-FL 32'
STREET TYPE RESIDENTIAL

PAVEMENT:
TYPE: HMA ☐ PCC ☐
THICKNESS:

COMPOSITE SECTION:
HMA ☐ BASE ☐

SHEET KEY



REVIEW:

STREET DESIGN:
CURB & GUTTER REVIEW _____ DATE: _____
FINAL REVIEW _____ DATE: _____
DRAINAGE DESIGN:
BY: _____ DATE: _____
TRAFFIC DESIGN:
BY: _____ DATE: _____

*Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:

Matrix
DESIGN GROUP

SEAL

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

ROADWAY PLAN & PROFILE

DESIGNED BY: NMS	SCALE: 1"=40'	DATE ISSUED: JULY, 2019	DRAWING No. RD13
CHECKED BY: NMS	VERT. 1"=8'	SHEET 35 OF 71	

END FL PROFILE & 10' TRANSITION
STA. 1+56.32
EL=5856.52

BEGIN 10' TRANSITION
PCR, STA. 1+46.40
EL=5856.33

PED RAMP COUNTY STD DETAIL
SD 2-41 (SEE SHEET 42 - INT05
FOR DESIGN INFORMATION)
(TYPICAL)

PC
STA. 1+14.10
EL=5855.39

BEGIN FL PROFILE
STA. 1+00.00
EL=5855.00

0+96 1+00 1+52

BEGIN FL PROFILE
STA. 1+00.00
EL=5855.00

PC
STA. 1+17.57
EL=5855.38

HP
STA. 1+38.93
EL=5855.79

BEGIN 10' TRANSITION
PCR, STA. 1+48.05
EL=5855.73

END FL PROFILE & 10' TRANSITION
STA. 1+58.05
EL=5855.60

SUNDAY GULCH DRIVE

BEGIN FL PROFILE & 10' TRANSITION
STA. 1+00.00
EL=5856.53

END 10' TRANSITION
PC, STA. 1+10.03
EL=5856.32

BEGIN 10' TRANSITION
PCR, STA. 1+42.32
EL=5855.37

END FL PROFILE & 10' TRANSITION
PC, STA. 1+52.32
EL=5855.06

FALLING ROCK DRIVE
SEE SHEET 34 - RD12

END FL PROFILE & 10' TRANSITION
STA. 1+50.81
EL=5855.13

BEGIN 10' TRANSITION
PCR, STA. 1+40.81
EL=5855.33

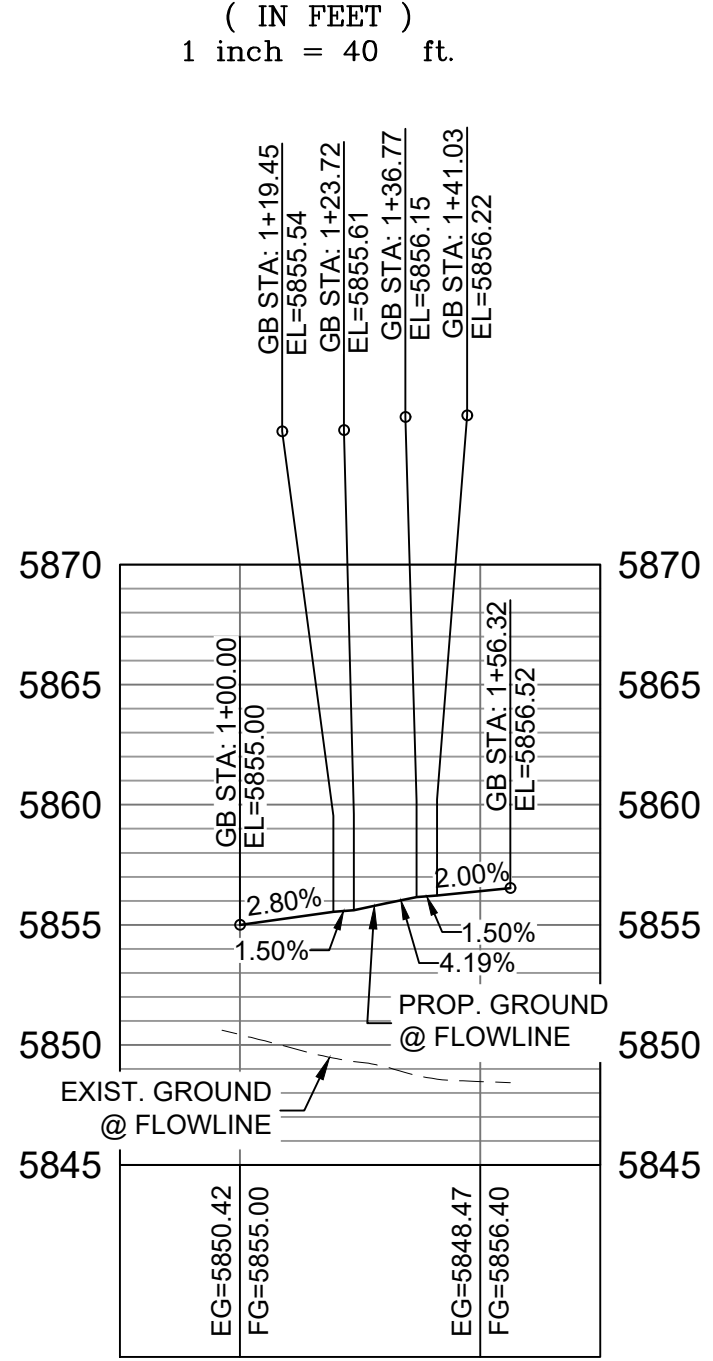
END 10' TRANSITION
PC, STA. 1+09.96
EL=5855.68

BEGIN FL PROFILE & 10' TRANSITION
STA. 1+00.00
EL=5855.58

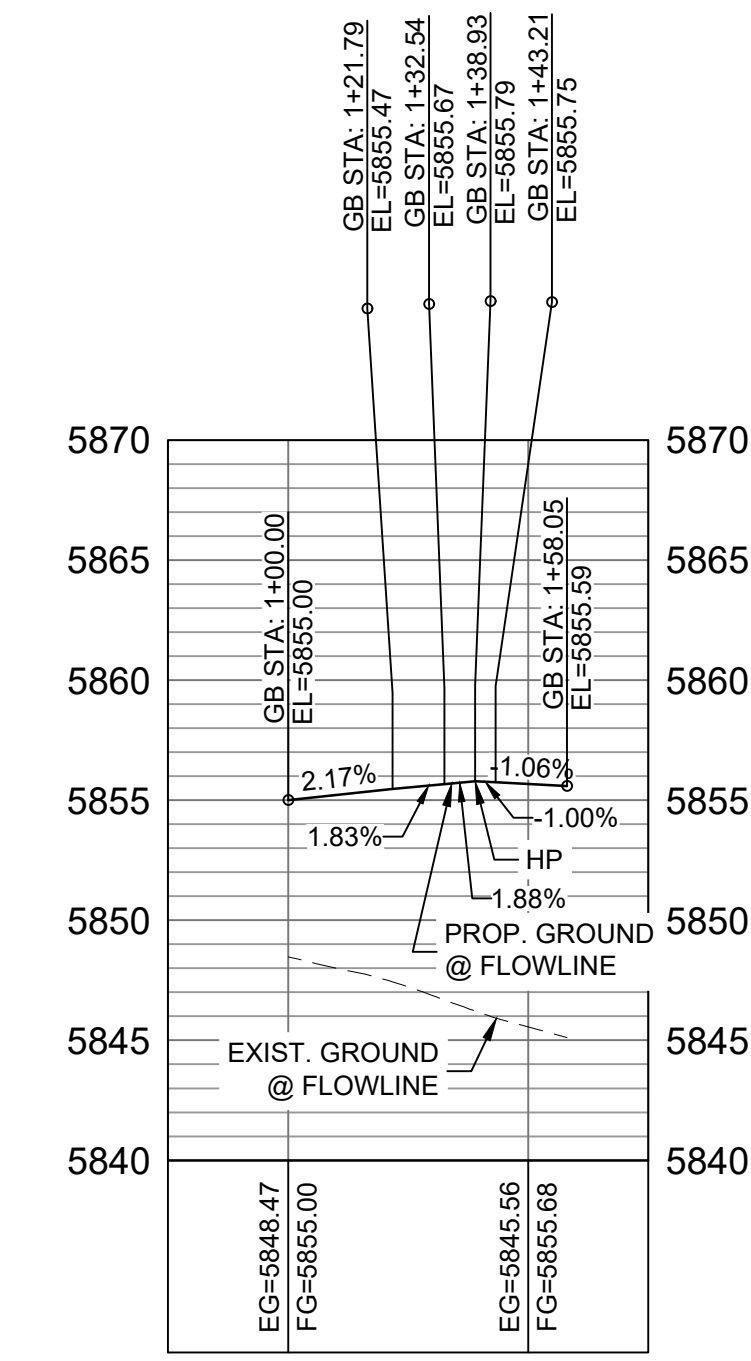
SUNDAY GULCH DRIVE
SEE SHEET 32 - RD10

GRAPHIC SCALE

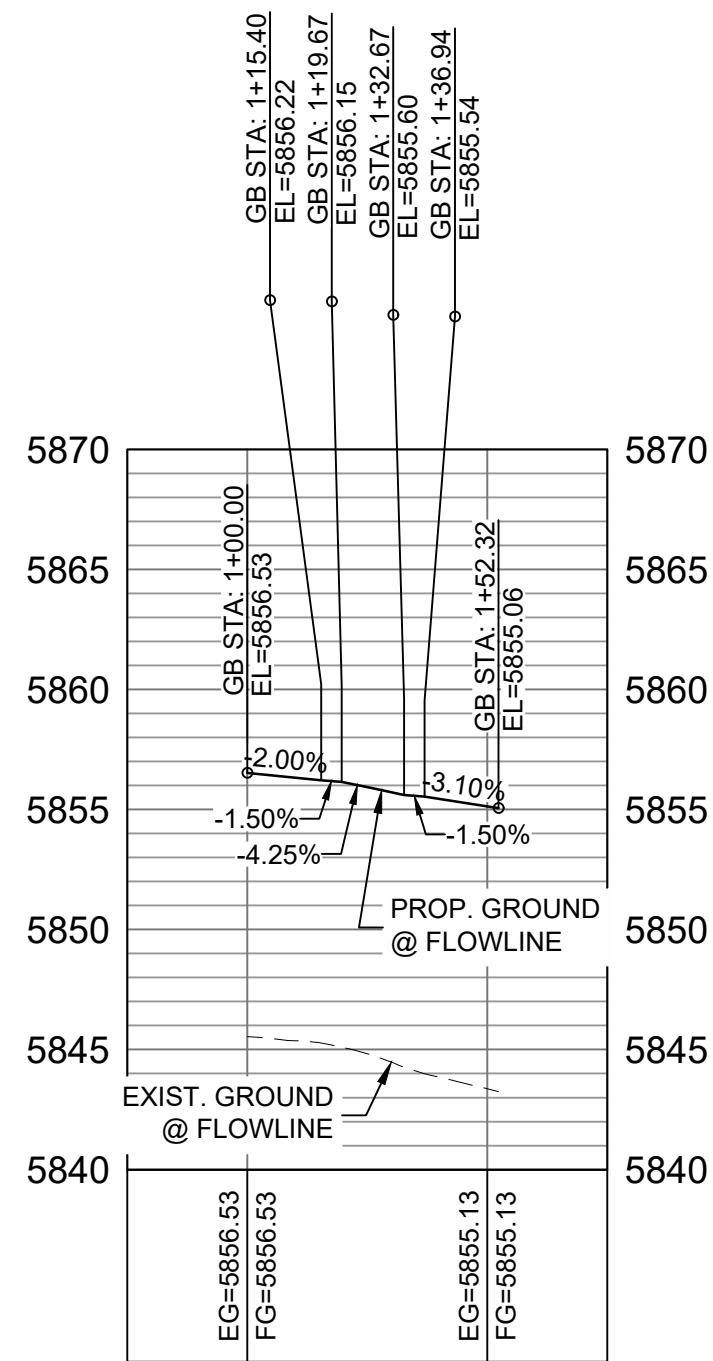
(IN FEET)
1 inch = 40 ft.



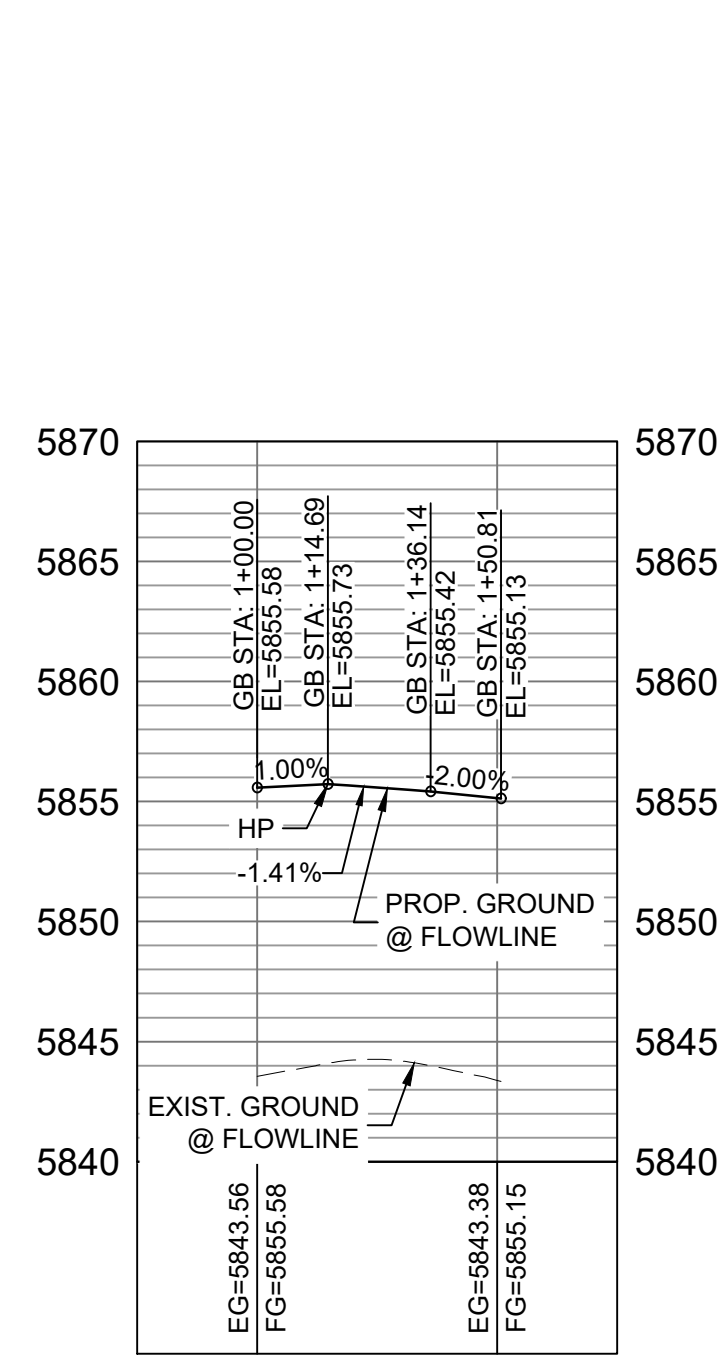
HORIZ: 1" = 40'
VERT: 1" = 8'



HORIZ: 1" = 40'
VERT: 1" = 8'

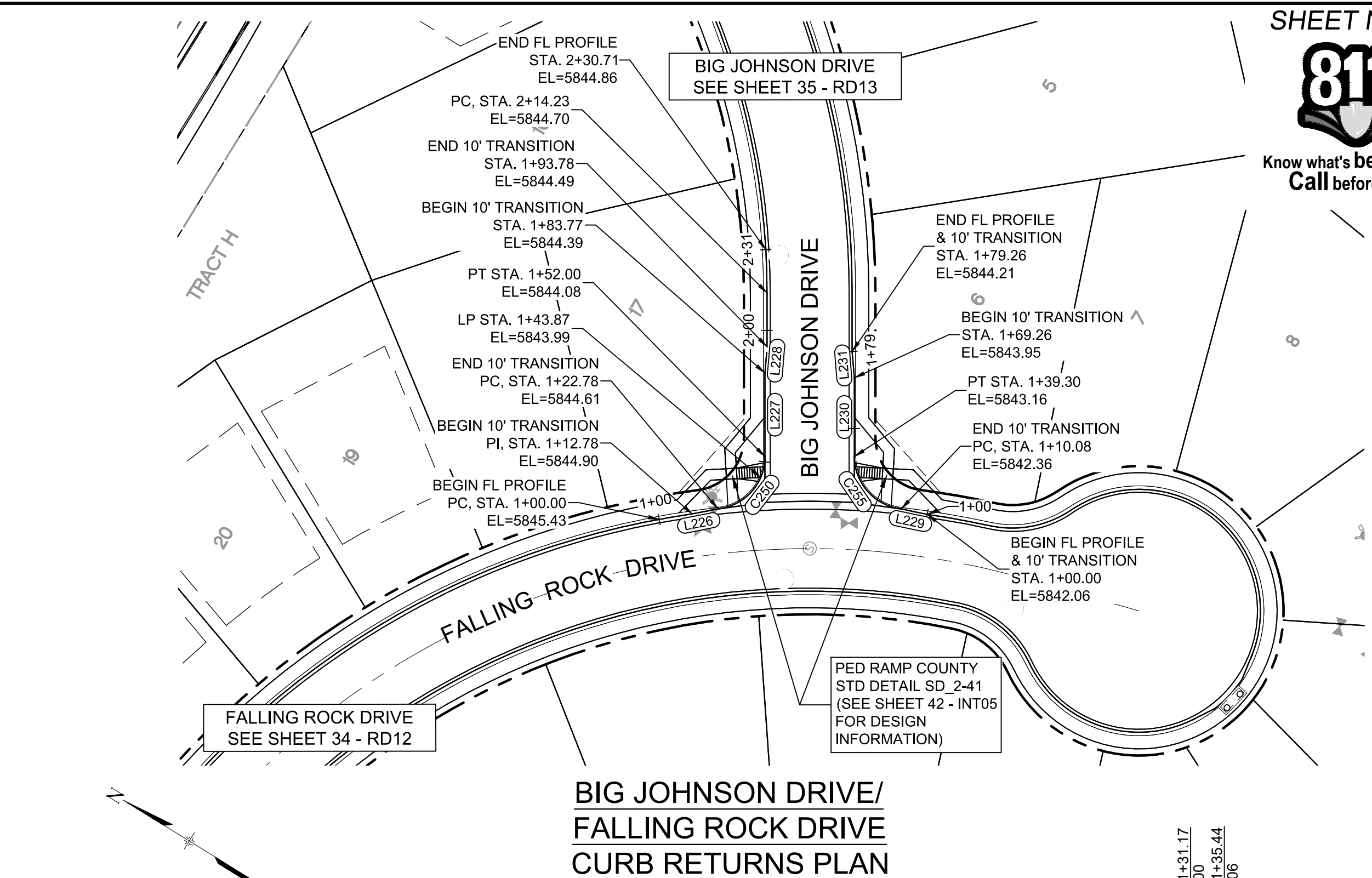


HORIZ: 1" = 40'
VERT: 1" = 8'



HORIZ: 1" = 40'
VERT: 1" = 8'

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C229	17.57	957.00	1°03'07"
C230	30.49	20.00	87°20'00"
C235	32.30	20.00	92°32'26"
C240	30.85	20.00	88°23'08"
C245	32.29	20.00	92°29'29"

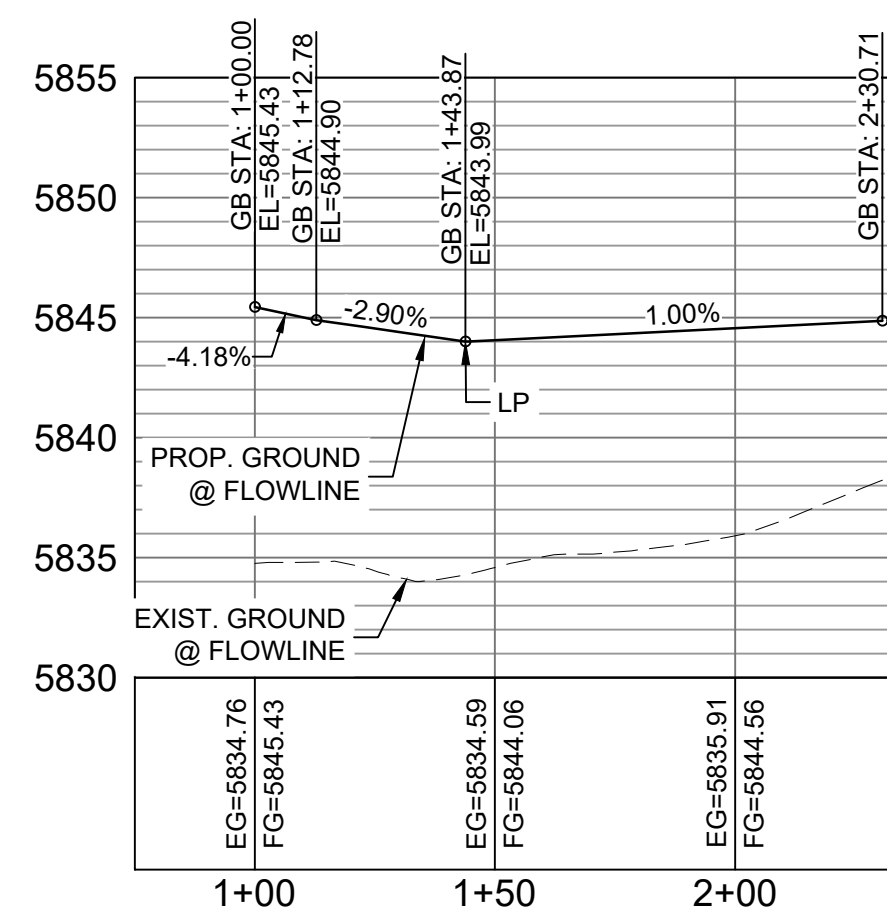


GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

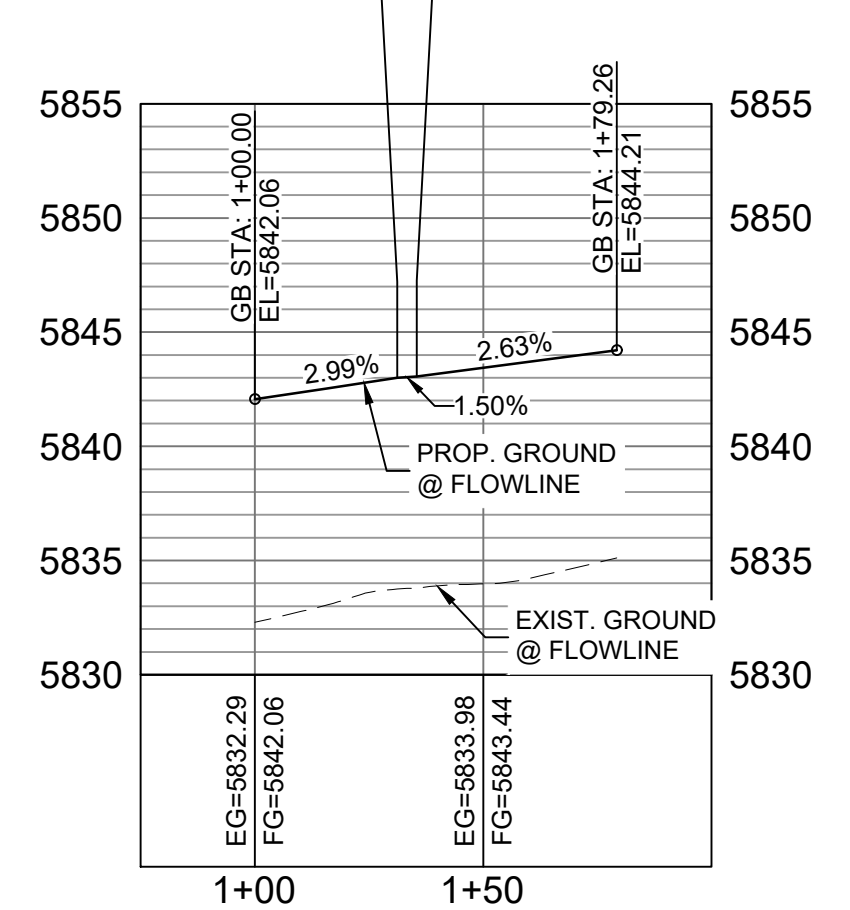
LINE TABLE		
LINE #	BEARING	DISTANCE
L226	S42°47'01"E	10.00
L227	N58°15'49"E	31.77
L228	N63°01'21"E	10.00
L229	N19°47'03"W	10.08
L230	N58°15'49"E	29.96
L231	N53°30'09"E	10.00

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C250	29.22	20.00	83°41'48"
C255	29.22	20.00	83°41'48"



BIG JOHNSON DRIVE /
FALLING ROCK DRIVE NORTH FL
CURB RETURN PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'



BIG JOHNSON DRIVE /
FALLING ROCK DRIVE SOUTH FL
CURB RETURN PROFILE

HORIZ: 1" = 40'
VERT: 1" = 8'

BENCHMARK
 COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
 A BERTENST TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH
 DIAMETER ALUMINUM CAP IN A ROAD BOX. LOCATED ON THE
 NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS
 BOULEVARD,
 ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
 BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST
 QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF
 THE 6TH RANGE, SAID LAND TOWNSHIP 15 S 23 E FROM THE NORTHWEST
 CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4
 CORNER OF SAID SECTION 9 (3 1/2" AULM. CAP PLS 10377)

No.	DATE	DESCRIPTION	BY
REVISIONS			
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD13-15.dwg			
CTB FILE:			
PLOT DATE: July 2, 2019 1:46:17 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

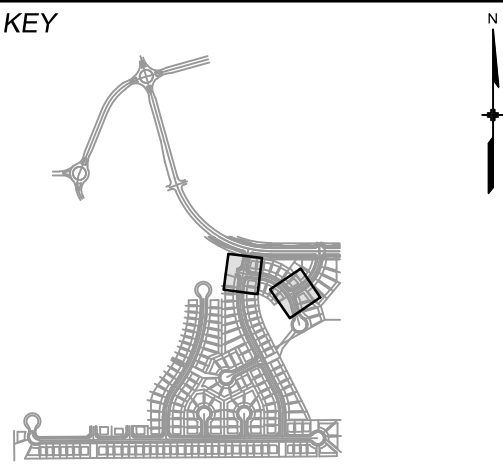
DESIGN DATA:

SIDEWALKS: WIDTH 5'	PAVEMENT:
LOCATION: ATTACHED <input checked="" type="checkbox"/> DETACHED <input type="checkbox"/>	TYPE: HMA <input type="checkbox"/> . PCC <input type="checkbox"/>
DESIGN SPEED: 25 MPH	THICKNESS: _____
CURB TYPE <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E	COMPOSITE SECTION:
ROW WIDTH 50' FL-FL 32'	HMA _____ BASE _____
STREET TYPE RESIDENTIAL	

PAVEMENT:
TYPE: HMA ☐ . PCC ☐
THICKNESS:

DESIGN OF LEED: _____ 25 MI/H
CURB TYPE ☒ A ☐ B ☐ C ☐ D ☐ E COMPOSITE SECTION:
ROW WIDTH 50' FL-FL 32' HMA _____ BASE _____
STREET TYPE RESIDENTIAL

SHEET KEY



REVIEW:

STREET DESIGN:

CURB & GUTTER REVIEW DATE:

FINAL REVIEW: _____ DATE: _____

DRAINAGE DESIGN:

BY: _____ DATE: _____

TRAFFIC DESIGN: _____
BY: _____ DATE: _____

“Filed in accordance with Section 7.7.006 (Drainage Ordinance) of the code of

Filed in accordance with Section 17-1006 (Drainage Ordinance) of the Code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:

Matrix
DESIGN GROUP

SEAL

TRAILS AT ASPEN RIDGE

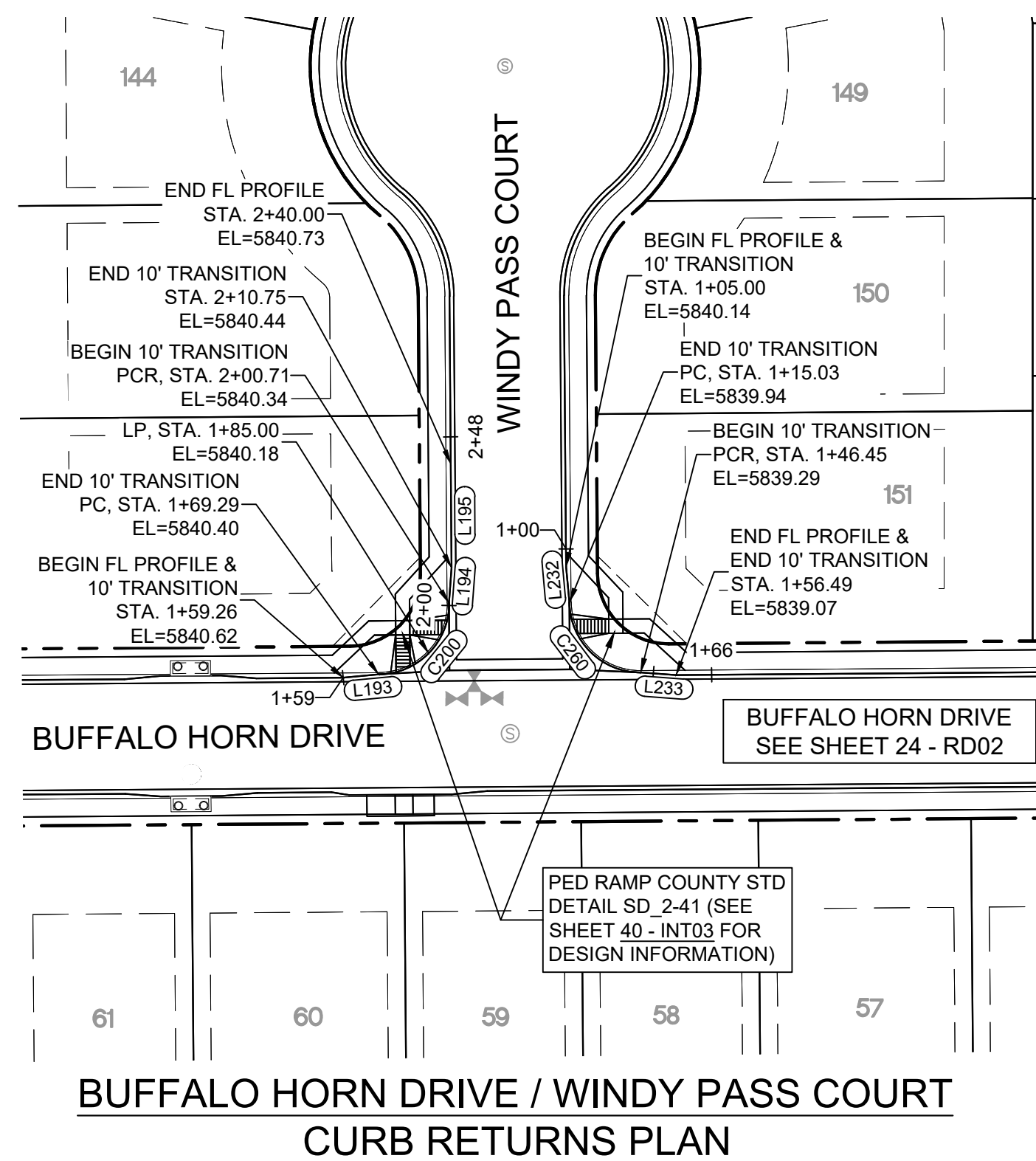
FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

ROADWAY PLAN & PROFILE

DESIGNED BY: NMS	SCALE	DATE ISSUED: JULY, 2019	DRAWING No. RD14
DRAWN BY: TJC	HORIZ. 1"=40'		
CHECKED BY: NMS	VERT. 1"=8'	SHEET 36 OF 71	

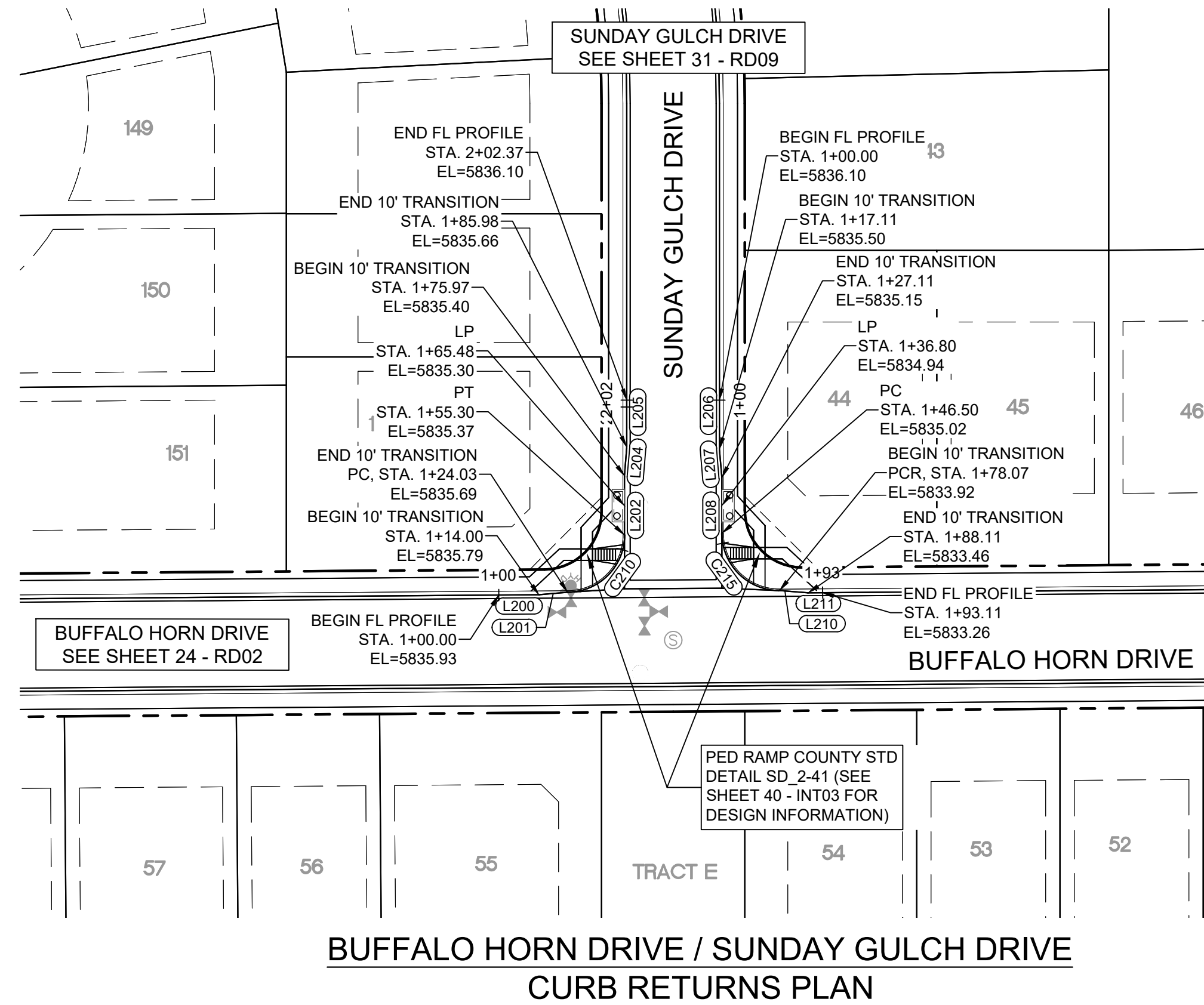


Know what's below.
Call before you dig.



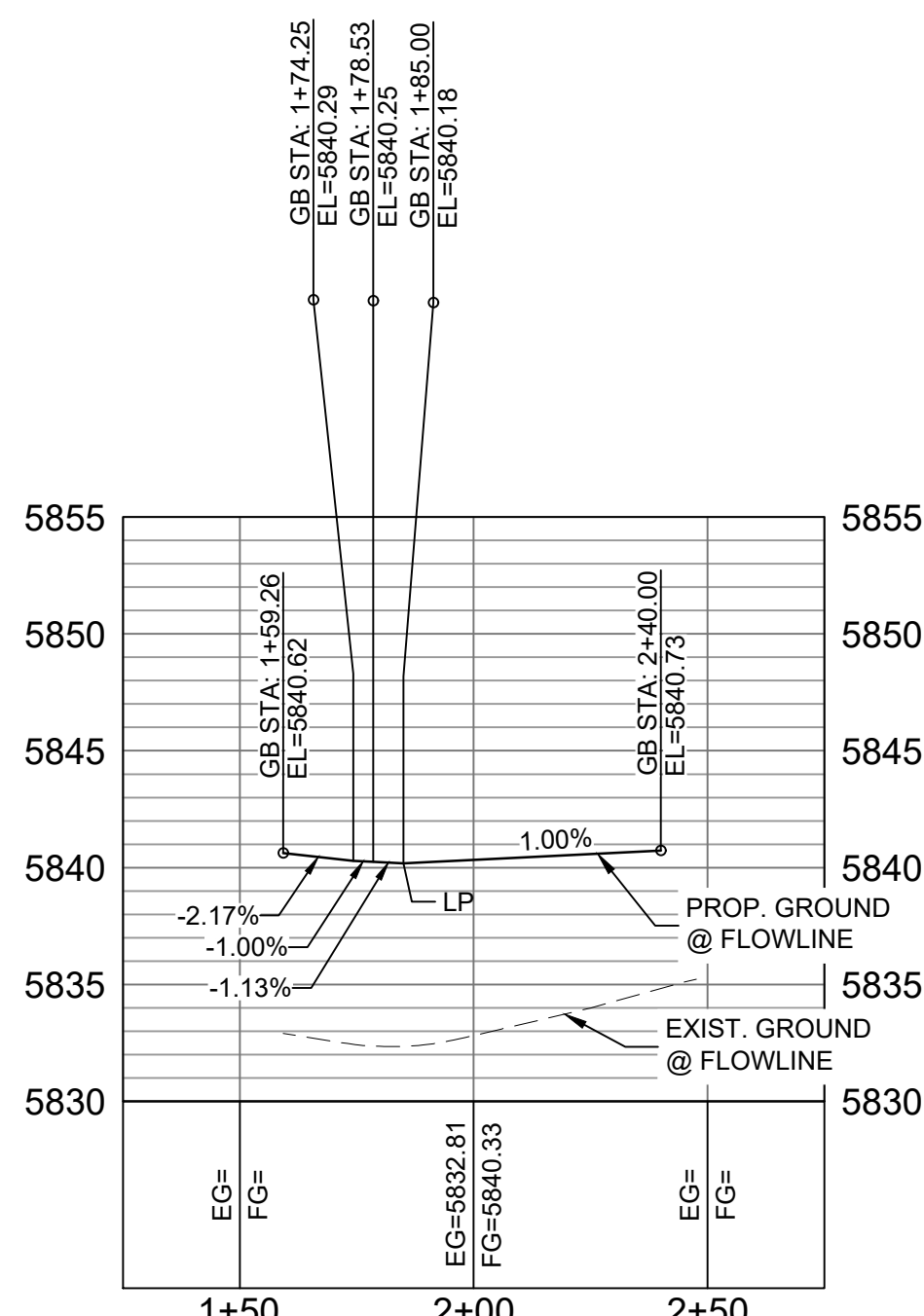
LINE TABLE		
LINE #	BEARING	DISTANCE
L193	N84°47'46"E	10.03
L194	N04°19'24"E	10.03
L195	N00°26'25"W	29.25
L232	S05°12'14"E	10.03
L233	S85°40'38"E	10.03

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C200	31.42	20.00	90°00'00"
C260	31.42	20.00	90°00'00"



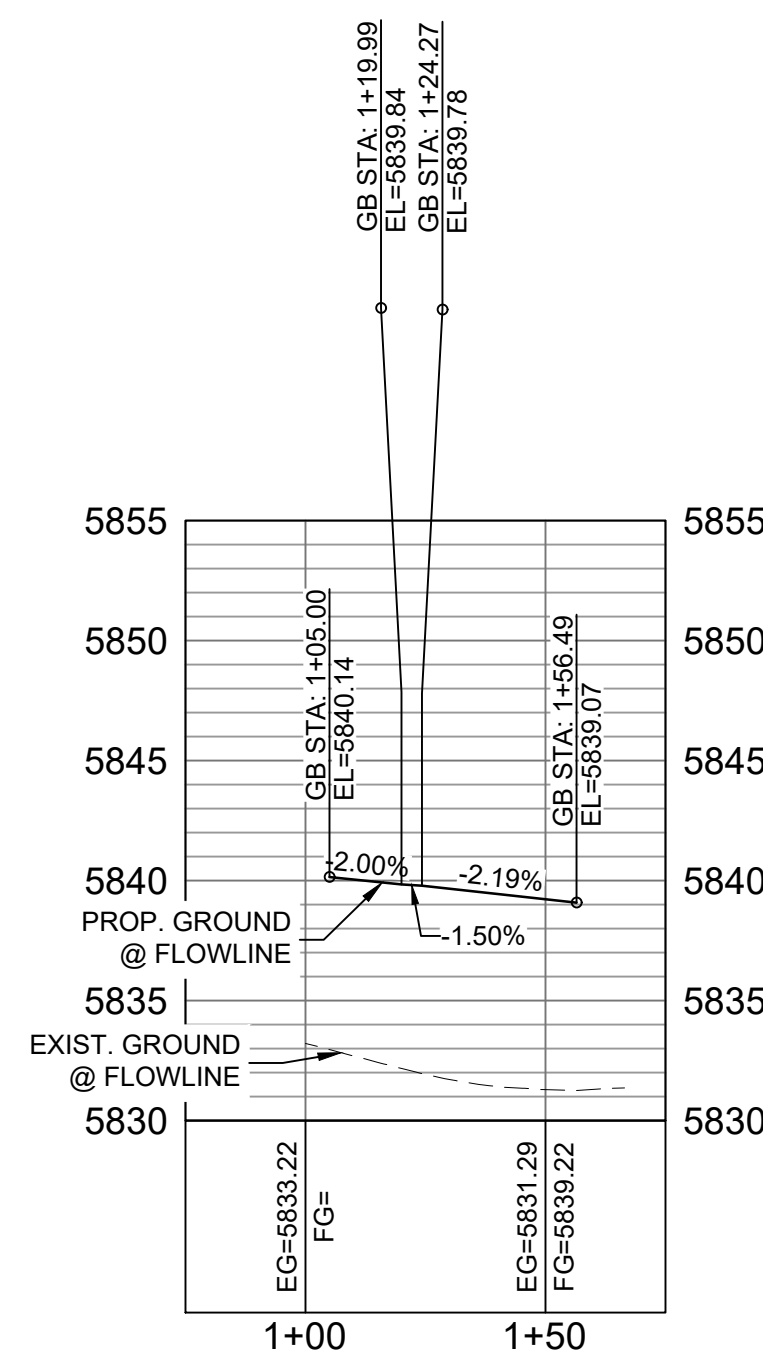
LINE TABLE		
LINE #	BEARING	DISTANCE
L200	N89°33'35"E	14.00
L201	N84°47'46"E	10.03
L202	N00°00'00"E	20.68
L204	N04°46'45"E	10.00
L205	N00°00'00"E	16.39
L206	S00°00'00"E	17.11
L207	S04°46'47"E	10.00
L208	S00°00'00"E	19.39
L210	S85°40'38"E	10.03
L211	N89°33'35"E	5.00

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE
C210	31.26	20.00	89°33'35"
C215	31.57	20.00	90°26'25"



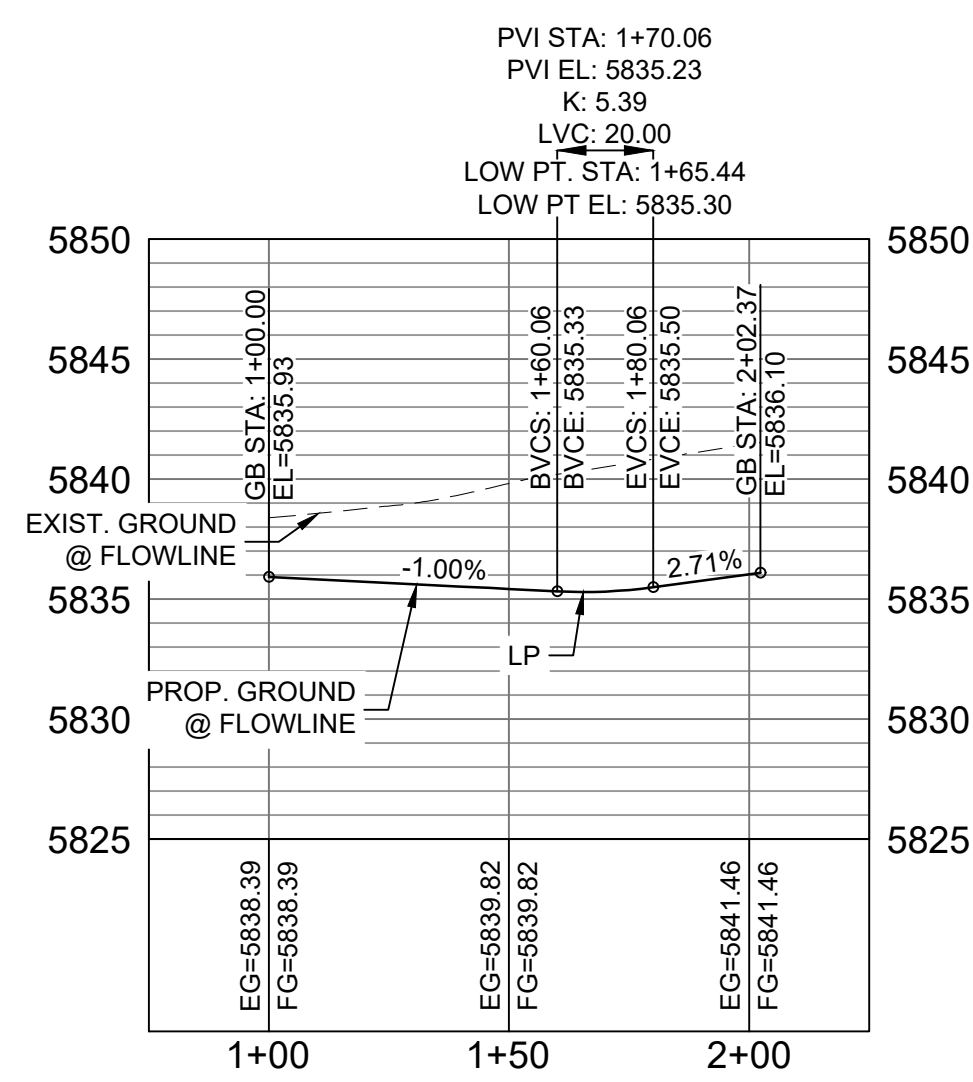
**BUFFALO HORN DRIVE /
WINDY PASS COURT WEST FL
CURB RETURN PROFILE**

HORIZ: 1" = 40'
VERT: 1" = 8'



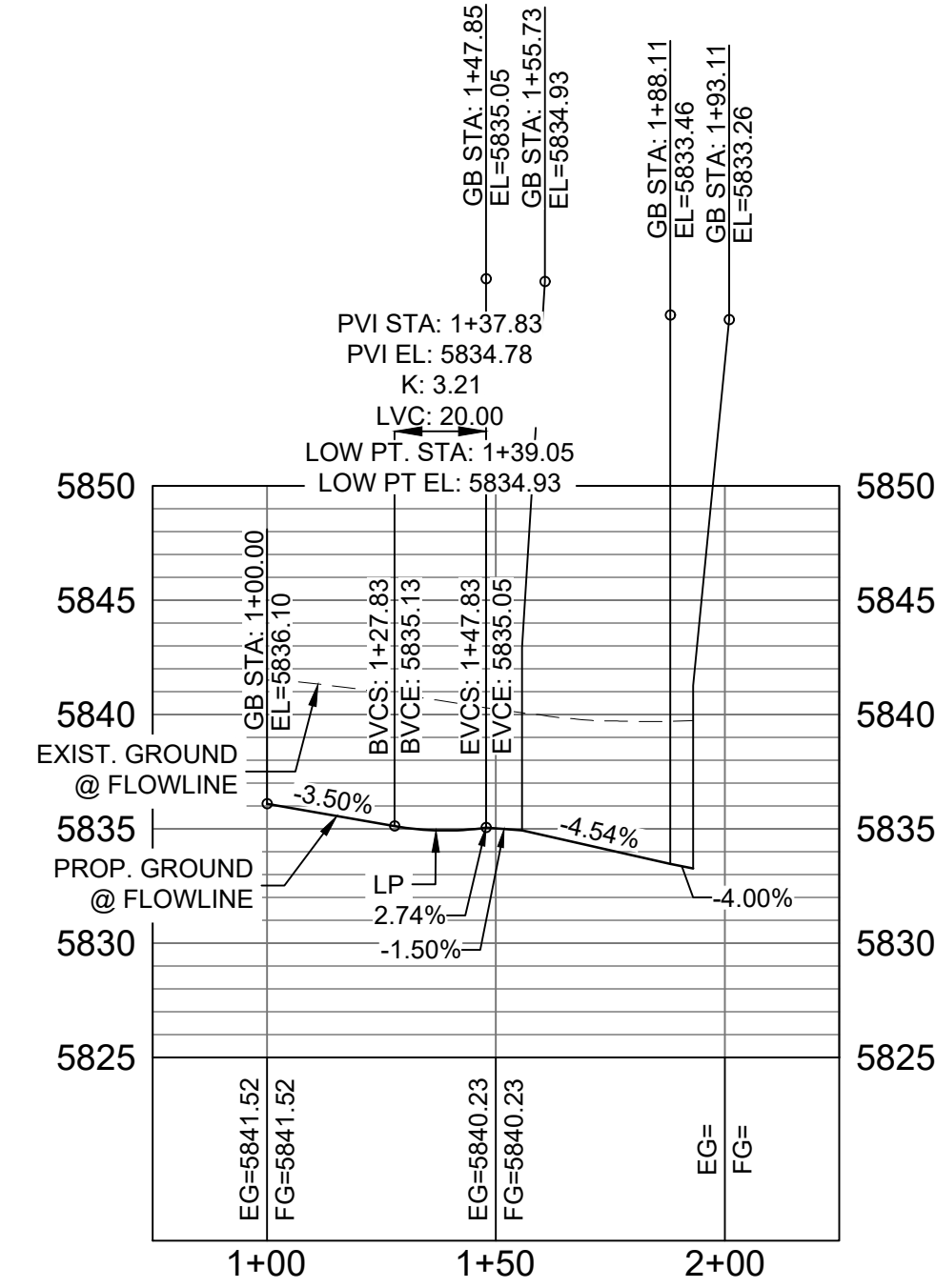
**BUFFALO HORN DRIVE /
WINDY PASS COURT EAST FL
CURB RETURN PROFILE**

HORIZ: 1" = 40'
VERT: 1" = 8'



**BUFFALO HORN DRIVE /
SUNDAY GULCH DRIVE WEST FL
CURB RETURN PROFILE**

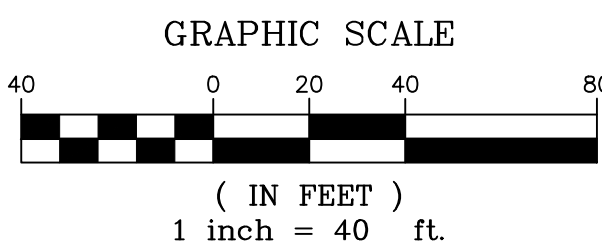
HORIZ: 1" = 40'
VERT: 1" = 8'



**BUFFALO HORN DRIVE /
SUNDAY GULCH DRIVE EAST FL
CURB RETURN PROFILE**

HORIZ: 1" = 40'
VERT: 1" = 8'

BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNITSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH
DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE
NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS
BOULEVARD,
ELEVATION - 5897.89' U.S. SURVEY FT
BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST
QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF
THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST
CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4
CORNER OF SAID SECTION 9 (3 1/2" AULM. CAP PLS 10377)



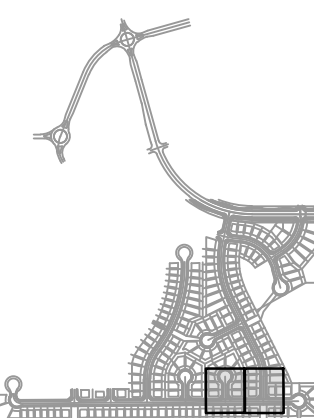
No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD13-15.dwg			
CTB FILE: ---			
PLOT DATE: July 2, 2019 1:47:15 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

DESIGN DATA:

SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒ DETACHED ☐
DESIGN SPEED: 25 MPH
CURB TYPE ☒ A ☐ B ☐ C ☐ D ☐ E COMPOSITE SECTION: HMA BASE
ROW WIDTH 50' FL-FL 32'
STREET TYPE RESIDENTIAL

PAVEMENT: TYPE: HMA ☐ PCC ☐
THICKNESS:

SHEET KEY



REVIEW:

STREET DESIGN:
CURB & GUTTER REVIEW DATE: _____
FINAL REVIEW DATE: _____
DRAINAGE DESIGN:
BY: _____ DATE: _____
TRAFFIC DESIGN:
BY: _____ DATE: _____

*Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:



SEAL

TRAILS AT ASPEN RIDGE
FILING NO. 1
ROADWAY & STORMDRAIN IMPROVEMENT PLANS

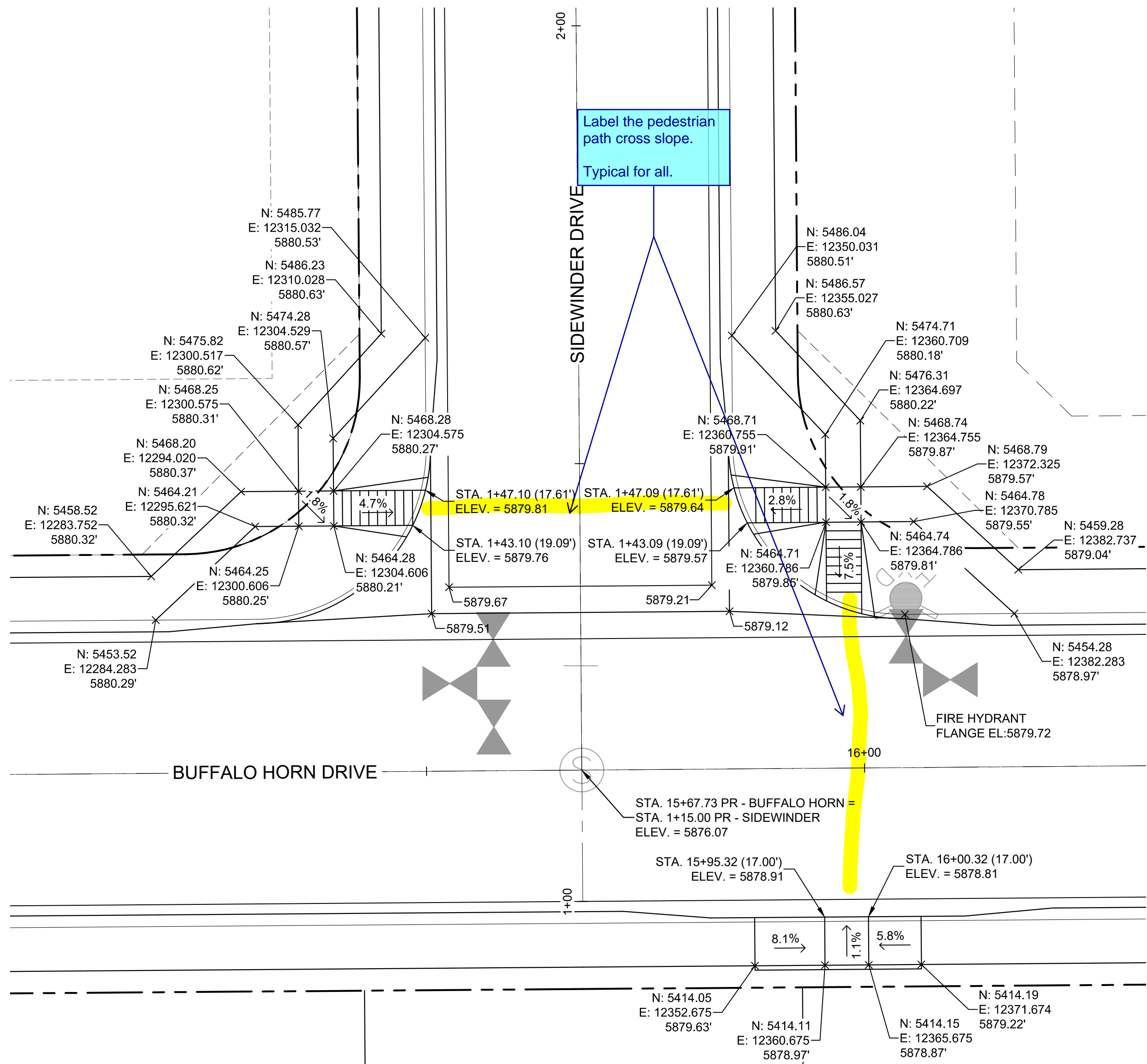
ROADWAY PLAN & PROFILE

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

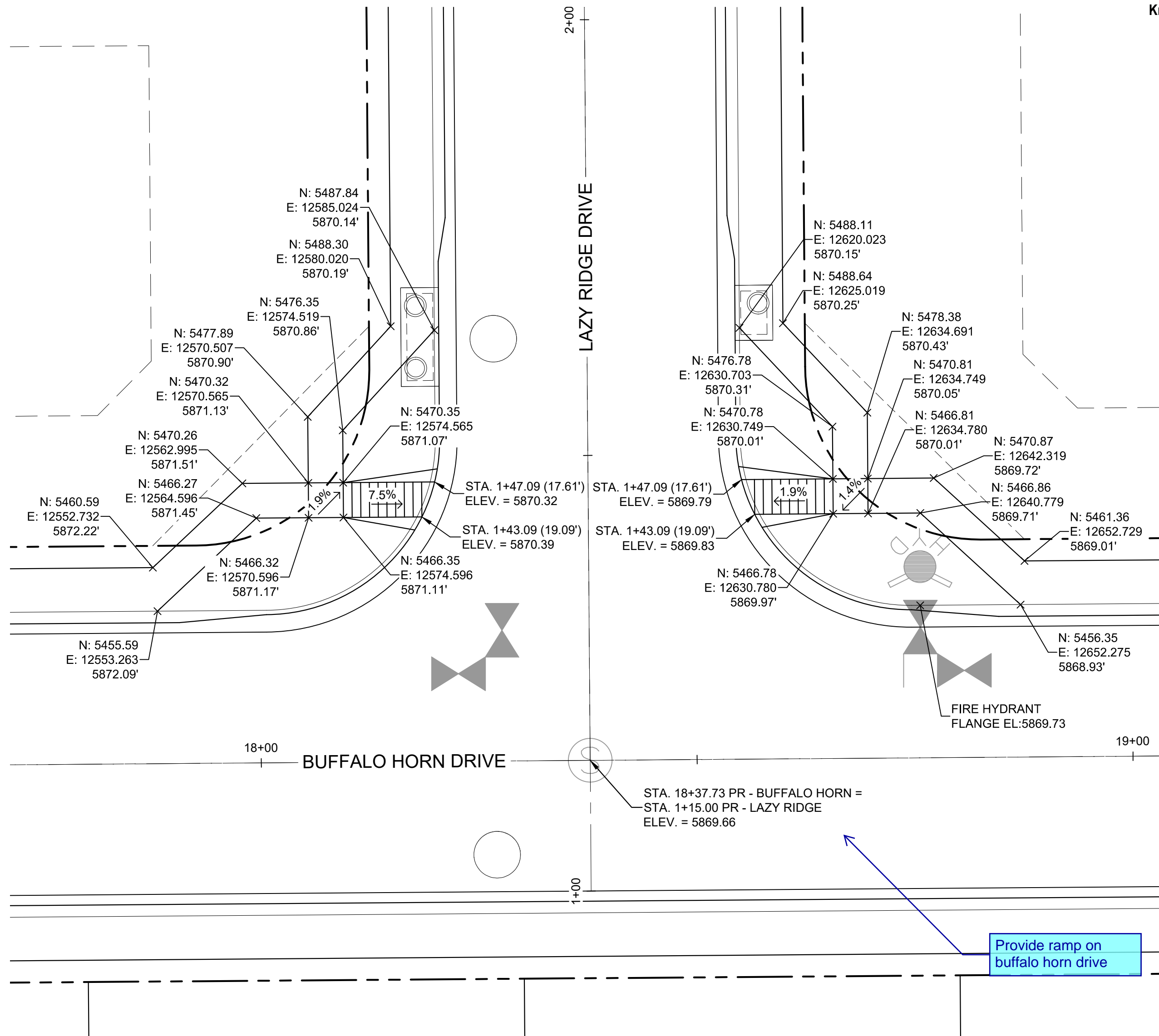
DESIGNED BY: NMS
DRAWN BY: TJC
CHECKED BY: NMS
SCALE: HORIZ: 1"=40'
VERT: 1"=8'
DATE ISSUED: JULY, 2019
SHEET: 37 OF 71
DRAWING No. RD15



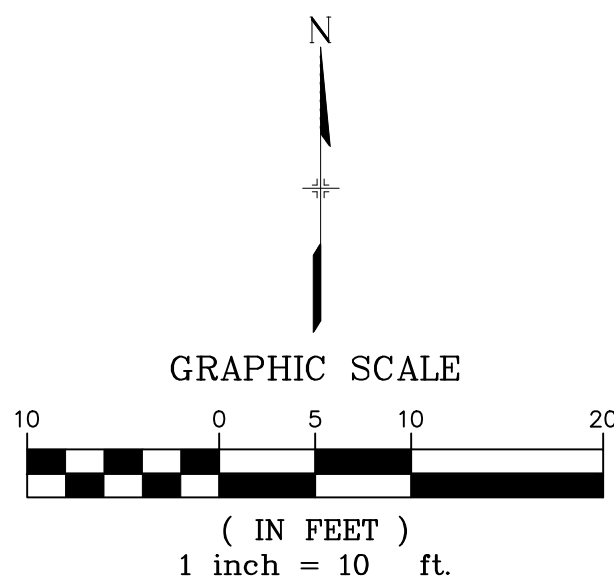
Know what's below.
Call before you dig.



DETAIL D
BUFFALO HORN DRIVE/
SIDEWINDER DRIVE
PED RAMP DETAILS



DETAIL E
BUFFALO HORN DRIVE/
LAZY RIDGE DRIVE
PED RAMP DETAILS

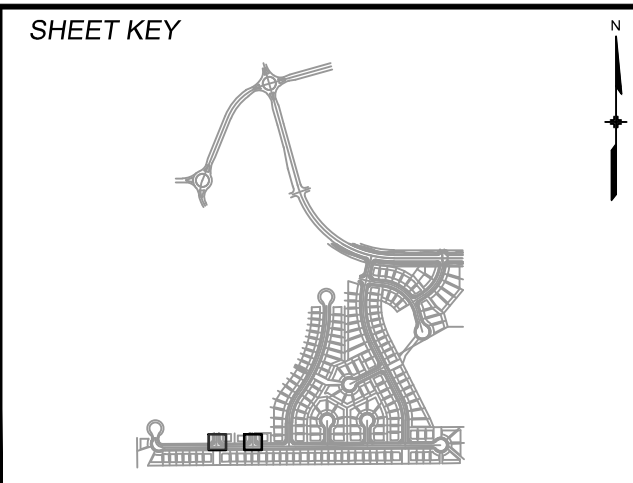


BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH
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BOULEVARD,
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST
QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF
THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST
CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4
CORNER OF SAID SECTION 9 (3 1/4" AULM. CAP PLS 10377)

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD16-21.dwg			
CTB FILE: ---			
PLOT DATE: July 2, 2019 1:48:03 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

DESIGN DATA:	
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LOCATION: ATTACHED <input checked="" type="checkbox"/> DETACHED <input type="checkbox"/>	THICKNESS: ---
DESIGN SPEED: 25 MPH	COMPOSITE SECTION: HMA <input type="checkbox"/> BASE <input type="checkbox"/>
CURB TYPE <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E	
ROW WIDTH 50' FL-FL 32'	
STREET TYPE RESIDENTIAL	



REVIEW:	
STREET DESIGN:	
CURB & GUTTER REVIEW	DATE: ---
FINAL REVIEW	DATE: ---
DRAINAGE DESIGN:	
BY: ---	DATE: ---
TRAFFIC DESIGN:	
BY: ---	DATE: ---
*Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.	

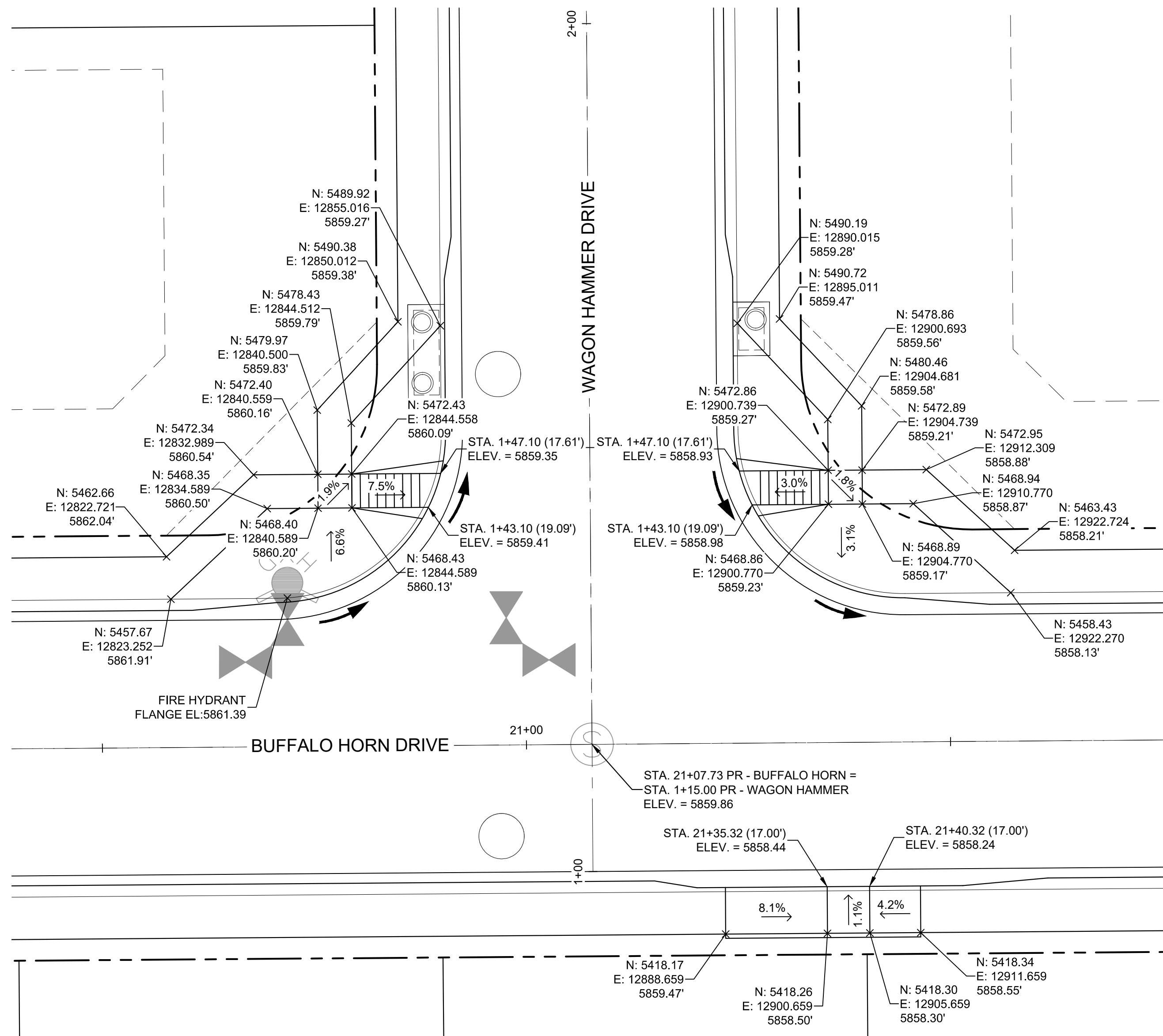


SEAL	
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 19.886.011	

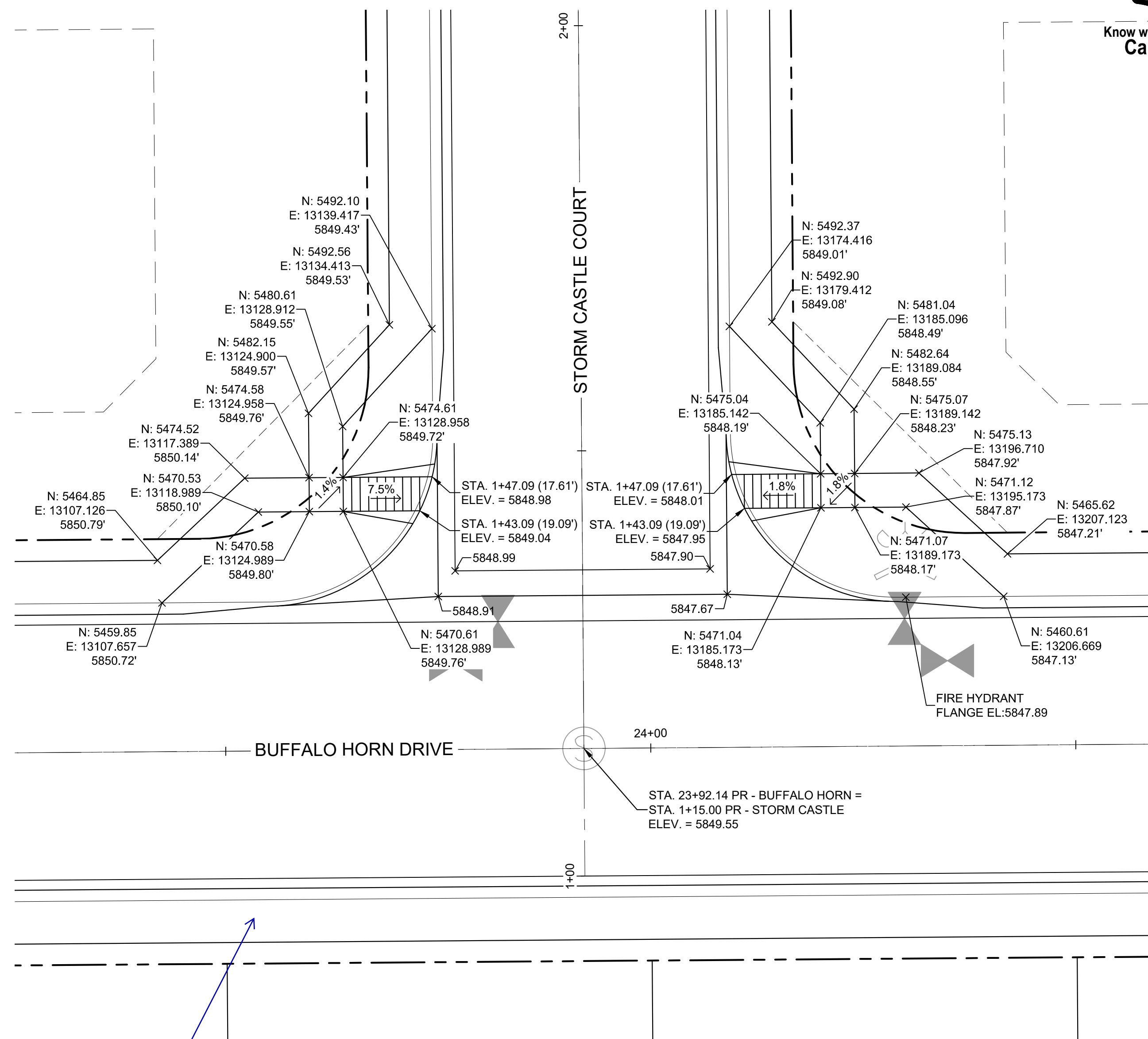
TRAILS AT ASPEN RIDGE			
FILING NO. 1			
ROADWAY & STORMDRAIN IMPROVEMENT PLANS			
PED RAMP DETAILS			
DESIGNED BY: NMS	SCALE: HORIZ. 1"=40'	DATE ISSUED: JULY, 2019	DRAWING No. INT01
CHECKED BY: NMS	VERT. 1"=8'	SHEET 38 OF 71	



Know what's below.
Call before you dig.

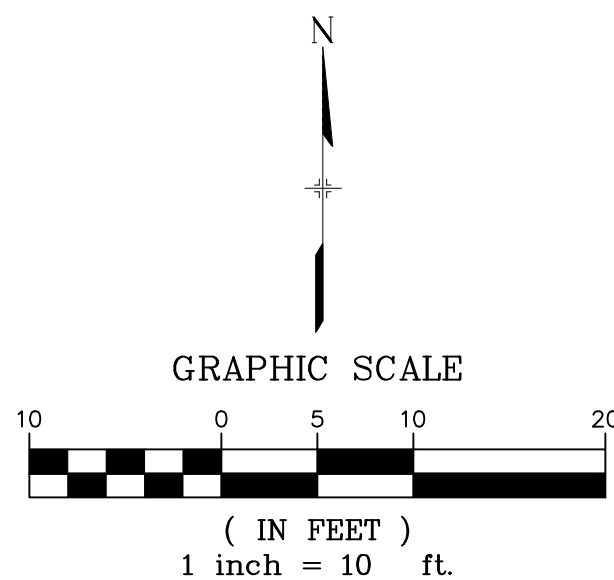


DETAIL F
**BUFFALO HORN DRIVE/
WAGON HAMMER DRIVE**
PED RAMP DETAILS



DETAIL G
**BUFFALO HORN DRIVE/
STORM CASTLE COURT**
PED RAMP DETAILS

Provide ramp on
buffalo horn drive



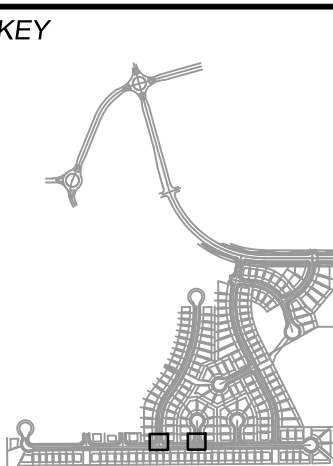
BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH
DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE
NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS
BOULEVARD,
ELEVATION - 5897.89' U.S. SURVEY FT
BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST
QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF
THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST
CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4
CORNER OF SAID SECTION 9 (3 1/2" AULM. CAP PLS 10377)

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD16-21.dwg			
PLOT DATE: July 2, 2019 1:48:11 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

DESIGN DATA:
SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒ DETACHED ☐
DESIGN SPEED: 25 MPH
CURB TYPE ☒ A ☐ B ☐ C ☐ D ☐ E COMPOSITE SECTION:
ROW WIDTH 50' FL-FL 32' HMA BASE
STREET TYPE RESIDENTIAL

PAVEMENT:
TYPE: HMA ☐ PCC ☐
THICKNESS:

SHEET KEY



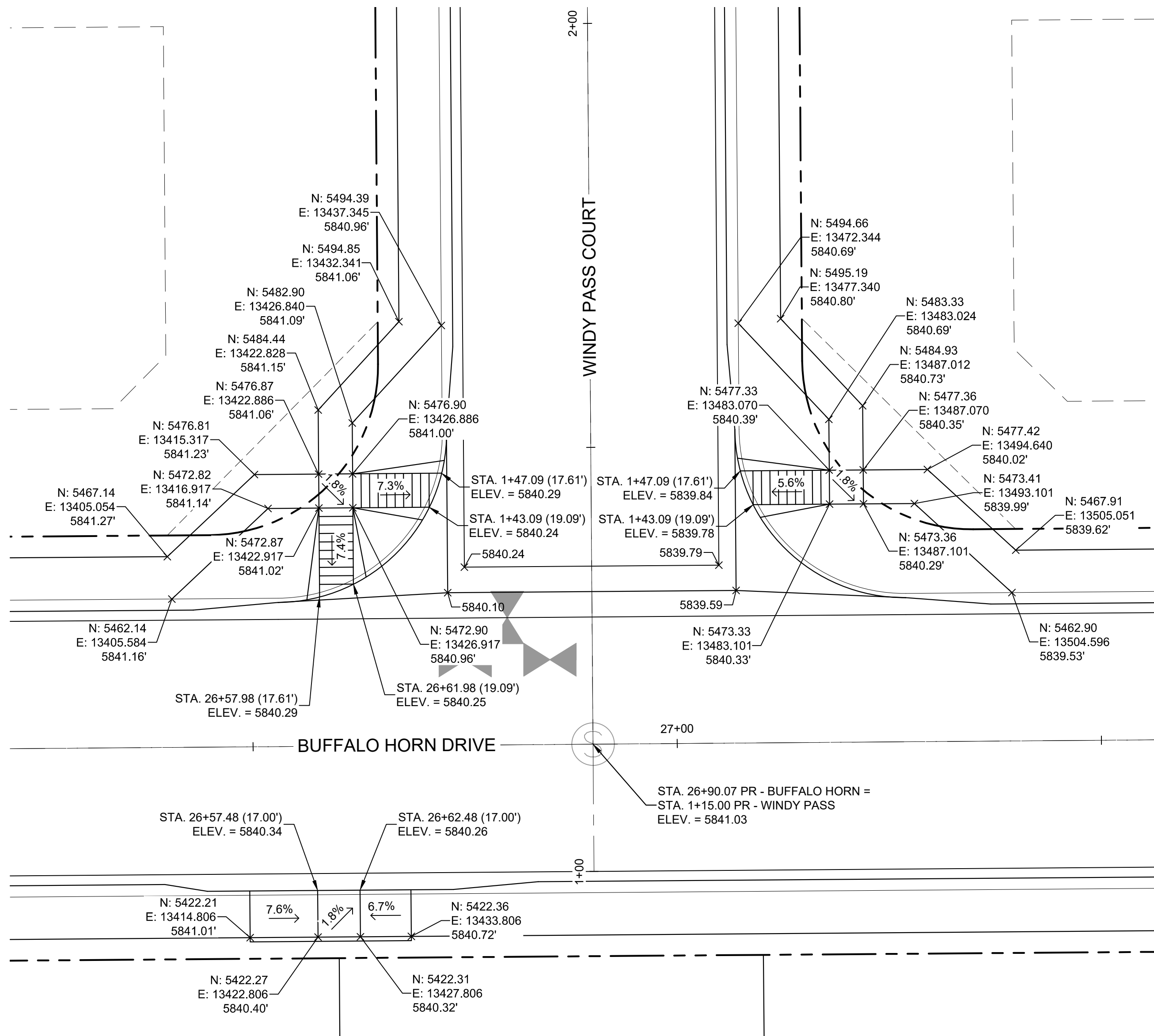
REVIEW:
STREET DESIGN:
CURB & GUTTER REVIEW _____ DATE: _____
FINAL REVIEW _____ DATE: _____
DRAINAGE DESIGN:
BY: _____ DATE: _____
TRAFFIC DESIGN:
BY: _____ DATE: _____
*Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.

PREPARED BY:

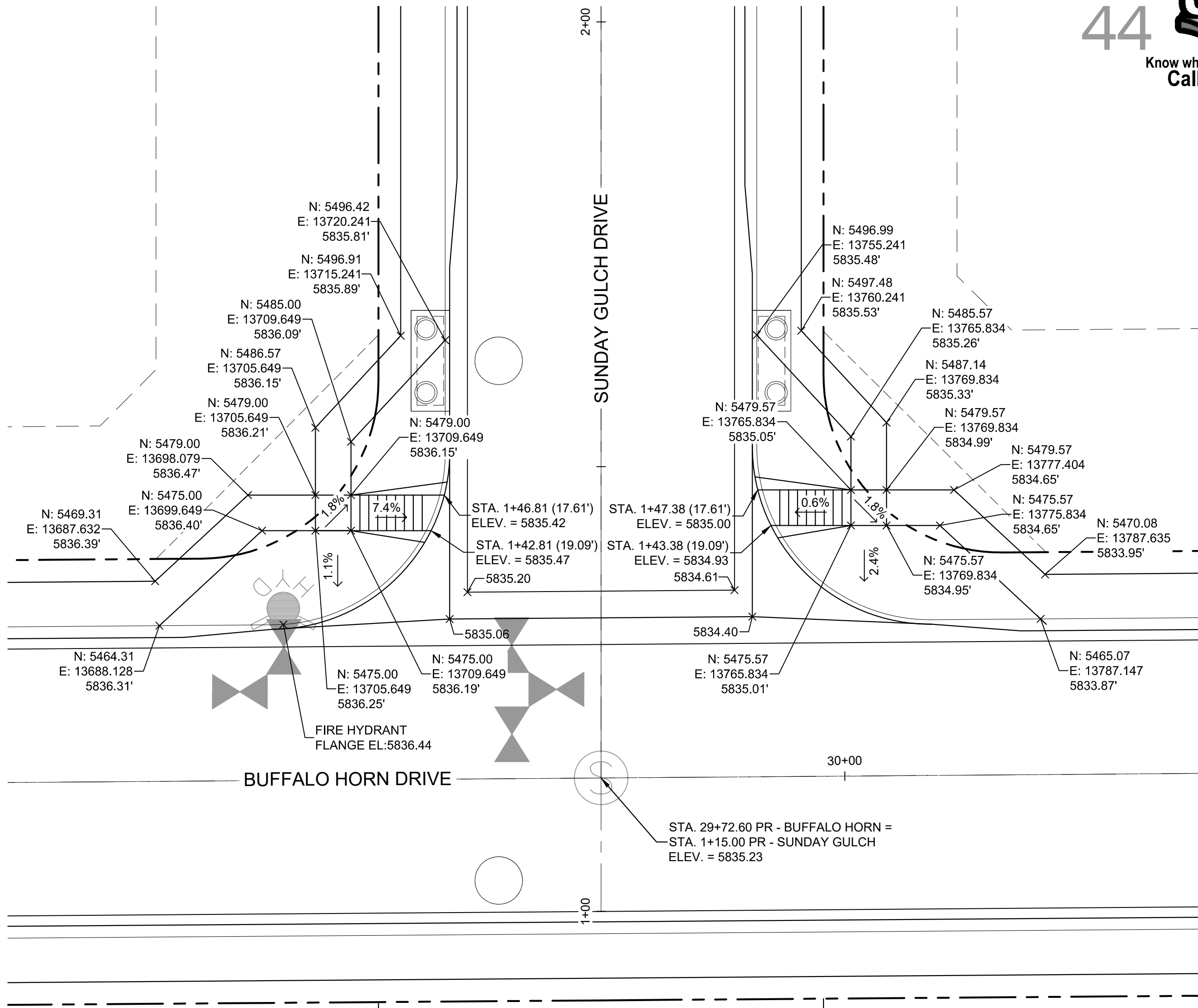


FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE			
FILING NO. 1			
ROADWAY & STORMDRAIN IMPROVEMENT PLANS			
PED RAMP DETAILS			
DESIGNED BY: NMS	SCALE: 1"=40'	DATE ISSUED: JULY, 2019	DRAWING No. INT02
CHECKED BY: NMS	VERT. 1"=8'	SHEET 39 OF 71	

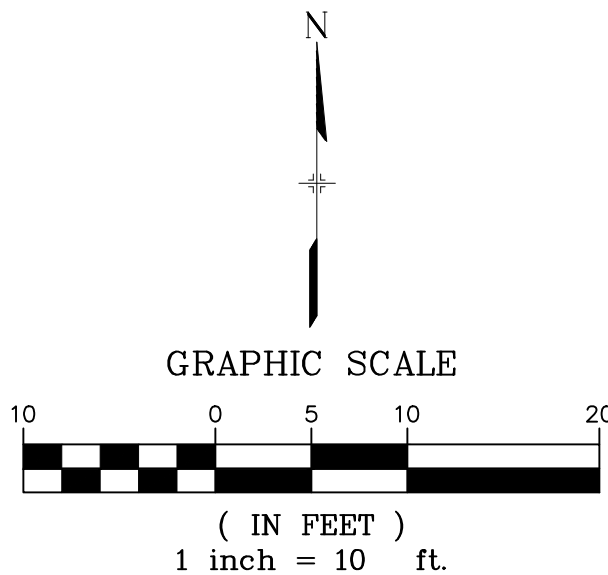


DETAIL H
BUFFALO HORN DRIVE/
WINDY PASS COURT
PED RAMP DETAILS





DETAIL I
BUFFALO HORN DRIVE/
SUNDAY GULCH DRIVE
PED RAMP DETAILS

Provide ramp on
buffalo horn drive

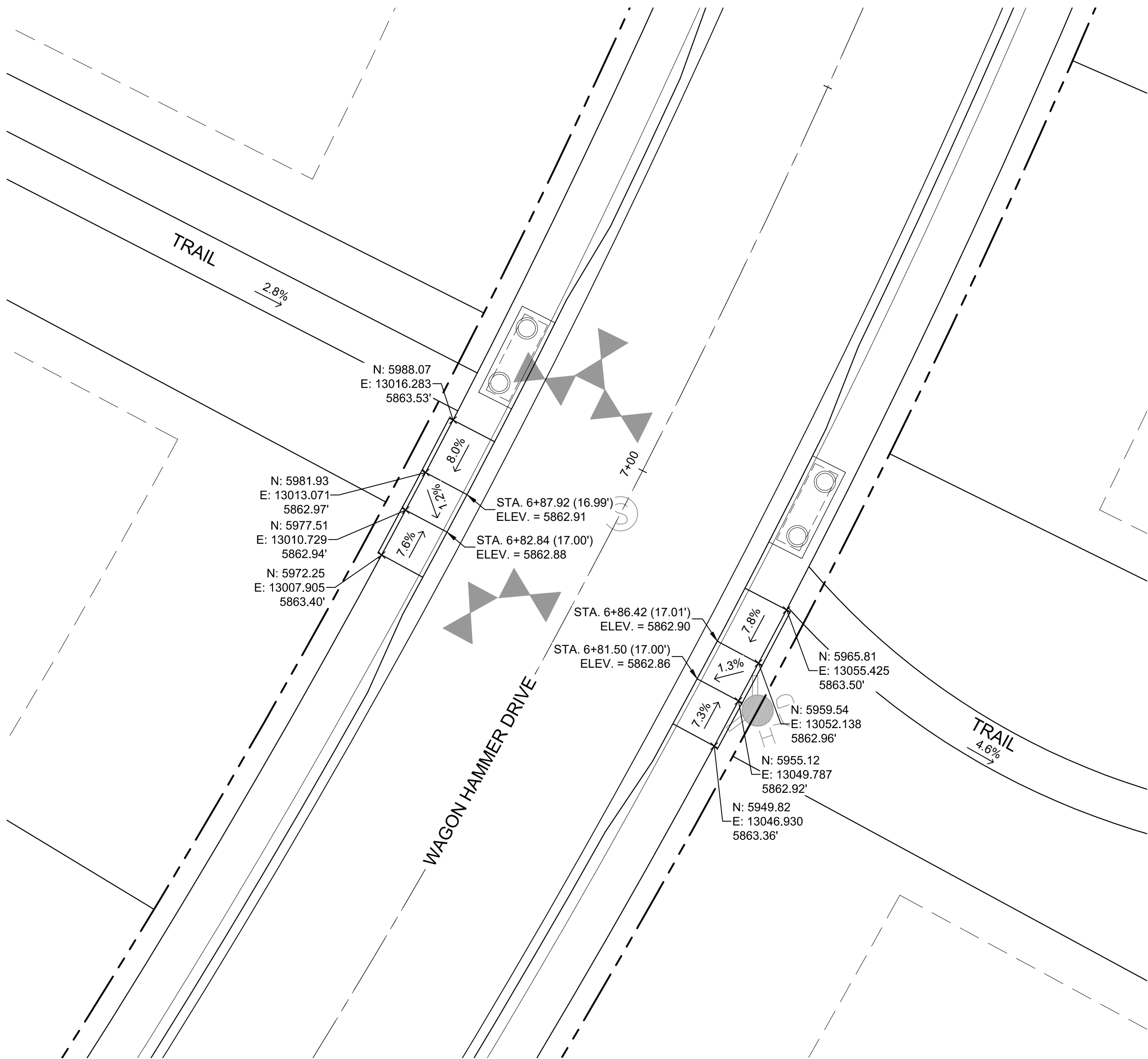


BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNITSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH
DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE
NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS
BOULEVARD,
ELEVATION - 5897.89' U.S. SURVEY FT
BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST
QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF
THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST
CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4
CORNER OF SAID SECTION 9 (3 1/2" AULM. CAP PLS 10377)

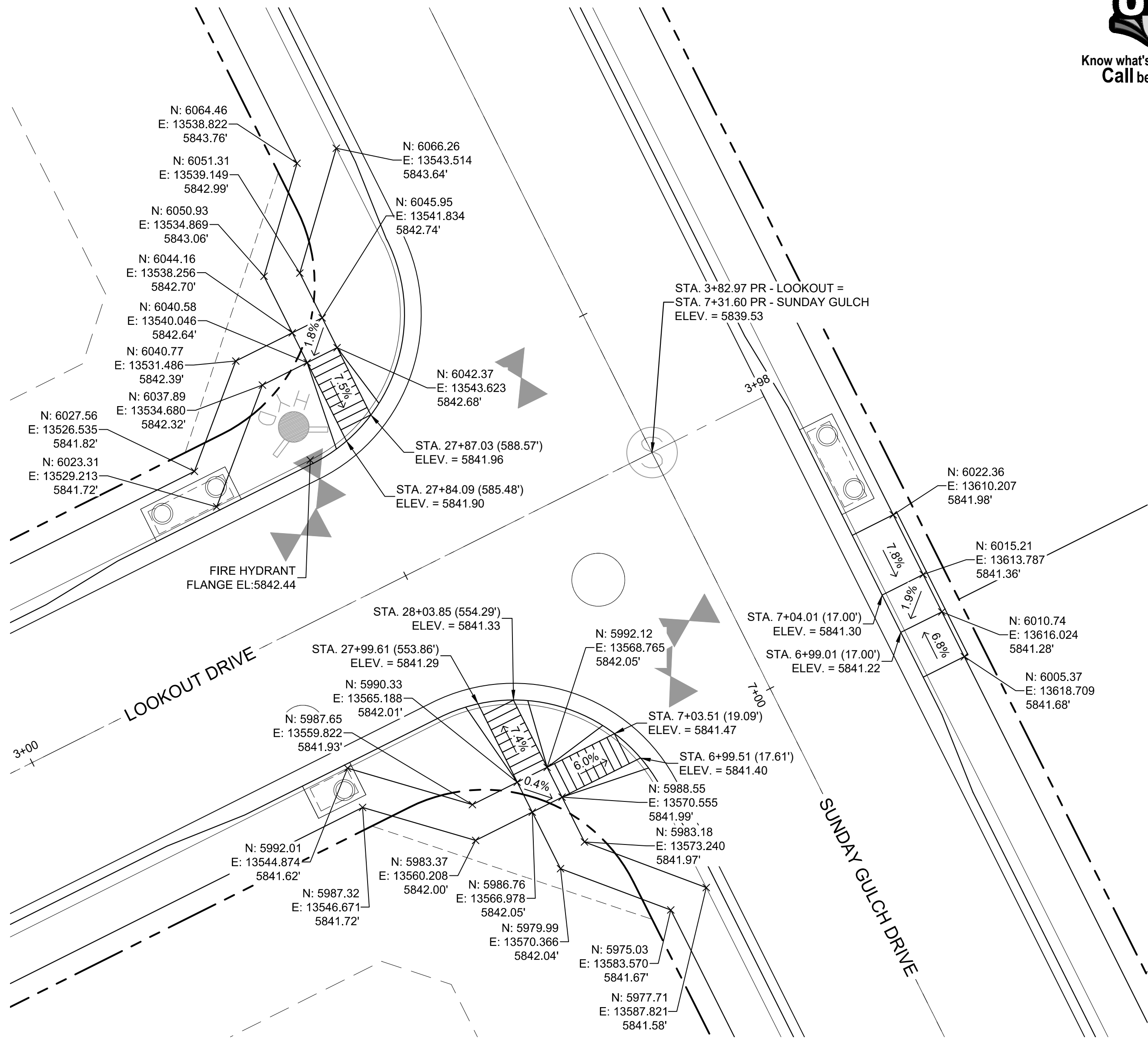
				DESIGN DATA: SIDEWALKS: WIDTH 5' LOCATION: ATTACHED <input checked="" type="checkbox"/> DETACHED <input type="checkbox"/> DESIGN SPEED: 25 MPH CURB TYPE <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E ROW WIDTH 50' FL-FL 32' STREET TYPE RESIDENTIAL				PAVEMENT: TYPE: HMA <input type="checkbox"/> PCC <input type="checkbox"/> THICKNESS: _____ COMPOSITE SECTION: HMA _____ BASE _____				SHEET KEY 				REVIEW: STREET DESIGN: _____ DATE: _____ CURB & GUTTER REVIEW _____ DATE: _____ FINAL REVIEW _____ DATE: _____ DRAINAGE DESIGN: _____ DATE: _____ BY: _____ TRAFFIC DESIGN: _____ DATE: _____ BY: _____ *Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.				<div>PREPARED BY:</div> <div></div>				SEAL				TRAILS AT ASPEN RIDGE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
DESIGNED BY: NMS SCALE DATE ISSUED: JULY, 2019 DRAWING No. INT03 DRAWN BY: TJC HORIZ. 1"=40' CHECKED BY: NMS VERT. 1"=8' SHEET 40 OF 71																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			



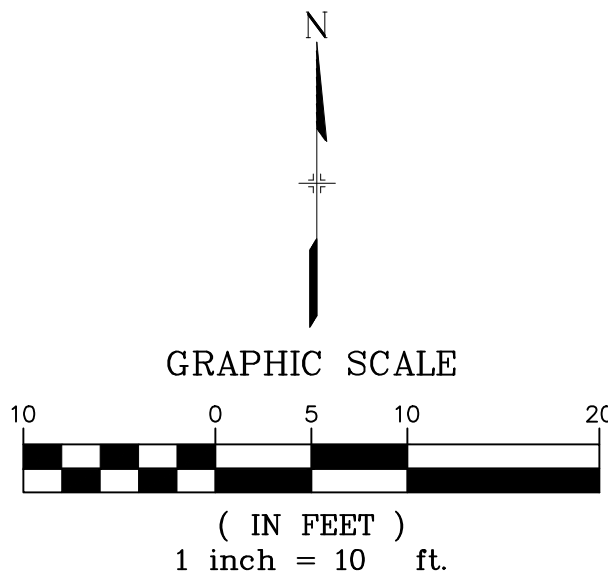
Know what's below.
Call before you dig.



DETAIL J
**WAGON HAMMER DRIVE/
**GREENBELT TRAIL (NAME?)
PED RAMP DETAILS**



DETAIL K
**LOOKOUT DRIVE/
SUNDAY GULCH DRIVE
PED RAMP DETAILS**

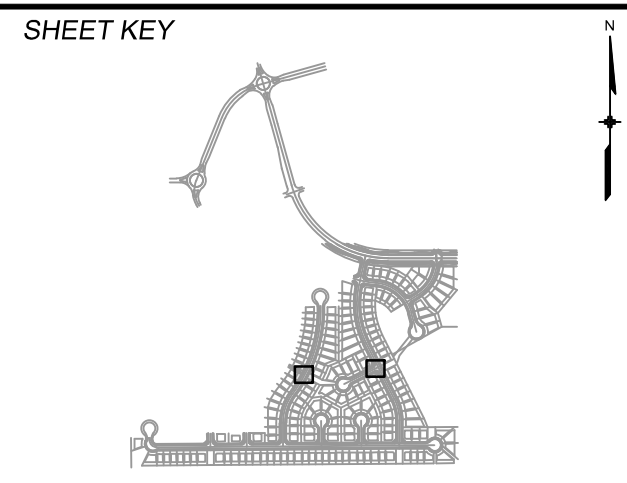


BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERTINSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH
DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE
NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS
BOULEVARD,
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST
QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF
THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST
CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4
CORNER OF SAID SECTION 9 (3 1/2" AULM. CAP PLS 10377)

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD16-21.dwg			
PLOT DATE: July 2, 2019 1:48:27 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

DESIGN DATA:	
SIDEWALKS: WIDTH 5'	PAVEMENT: TYPE: HMA □ . PCC □
LOCATION: ATTACHED □ DETACHED □	THICKNESS: □
DESIGN SPEED: 25 MPH	COMPOSITE SECTION: HMA □ BASE □
CURB TYPE □ A □ B □ C □ D □ E	
ROW WIDTH 50' FL-FL 32'	
STREET TYPE RESIDENTIAL	



REVIEW:	
STREET DESIGN:	
CURB & GUTTER REVIEW	DATE: _____
FINAL REVIEW	DATE: _____
DRAINAGE DESIGN:	
BY: _____	DATE: _____
TRAFFIC DESIGN:	
BY: _____	DATE: _____
*Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.	

PREPARED BY:

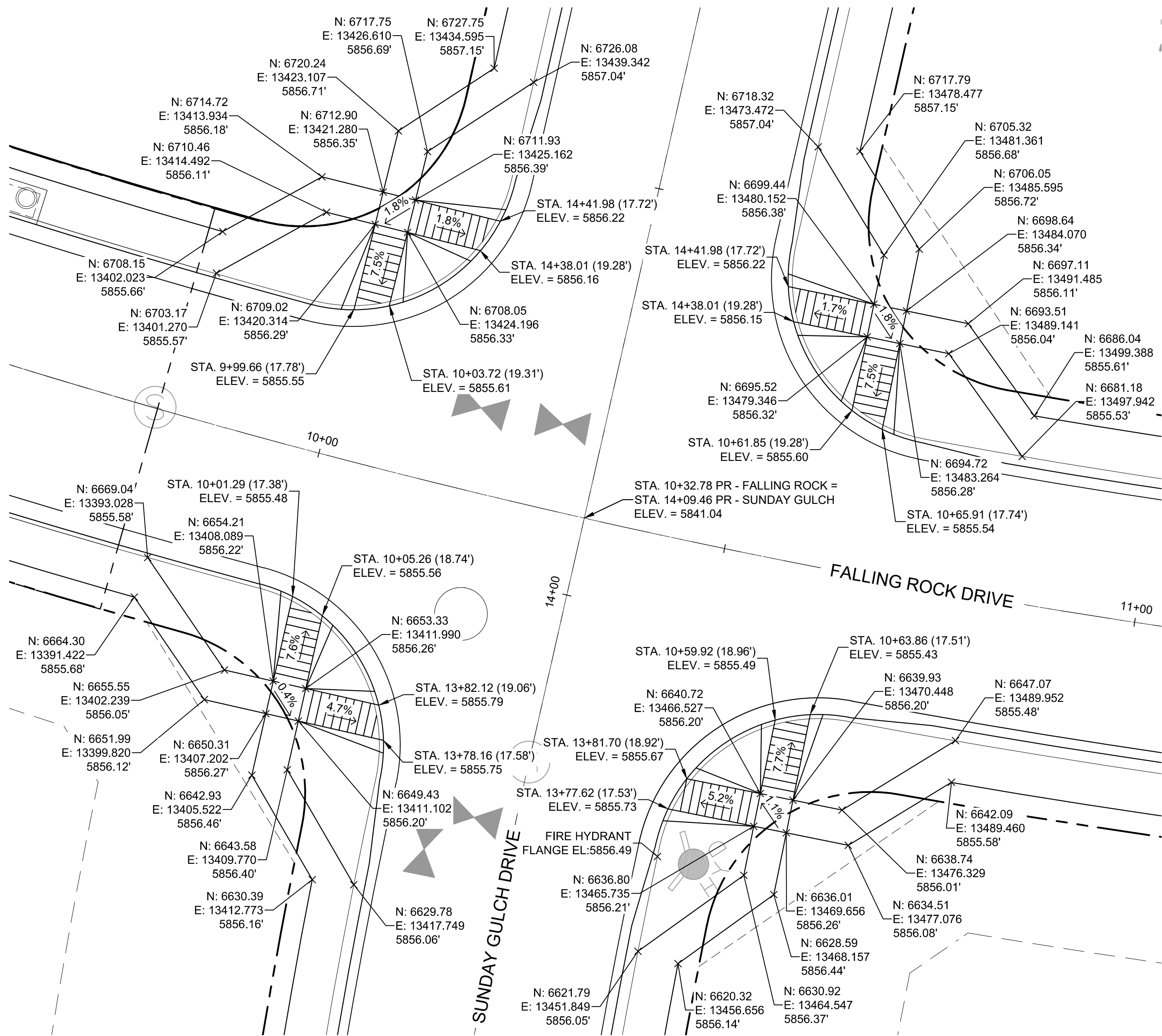
Matrix
DESIGN GROUP

SEAL	
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 19.886.011	

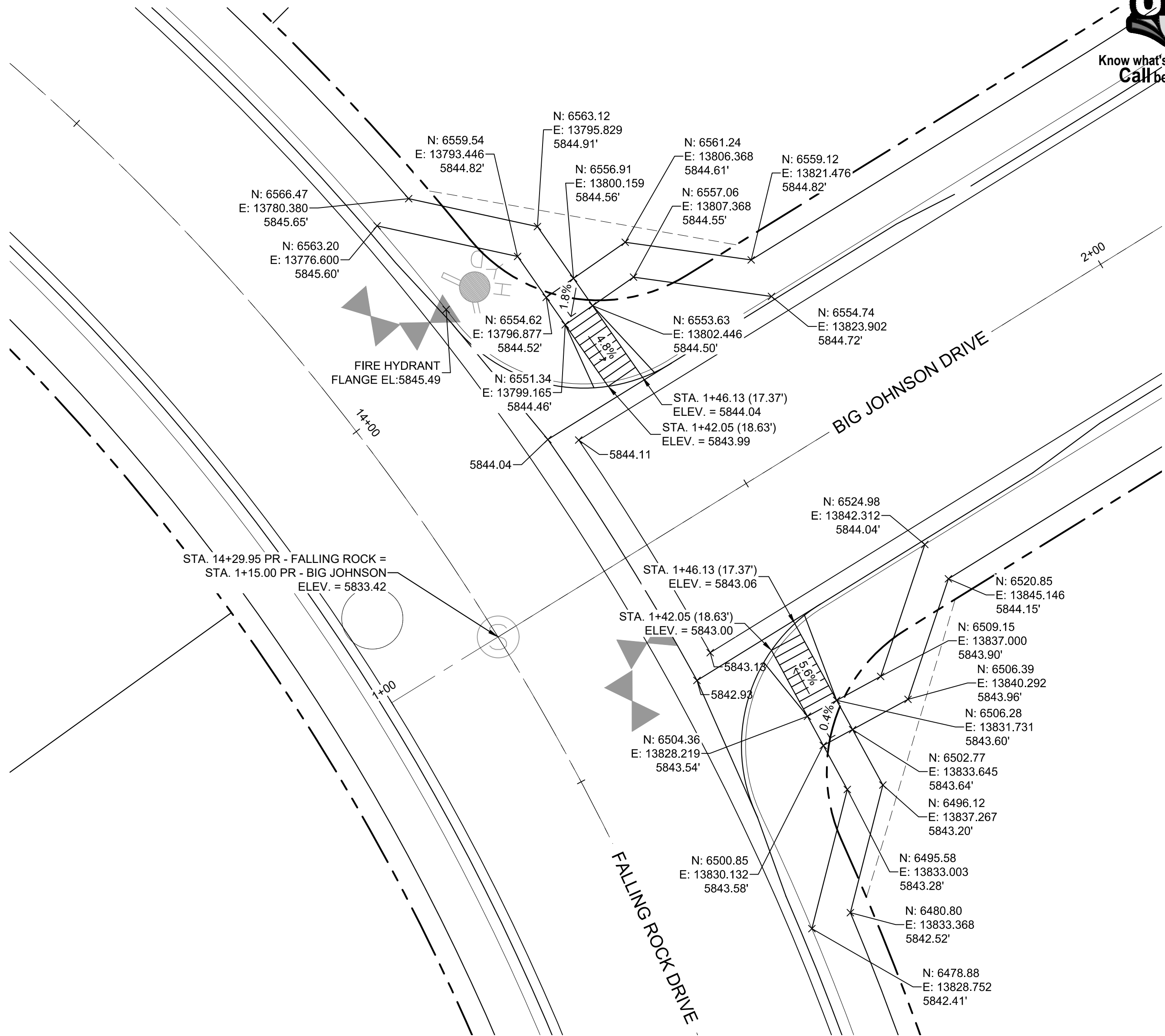
TRAILS AT ASPEN RIDGE			
FILING NO. 1			
ROADWAY & STORMDRAIN IMPROVEMENT PLANS			
PED RAMP DETAILS			
DESIGNED BY: NMS	SCALE: 1"=40'	DATE ISSUED: JULY, 2019	DRAWING No. INT04
CHECKED BY: NMS	VERT. 1"=8'	SHEET 41 OF 71	



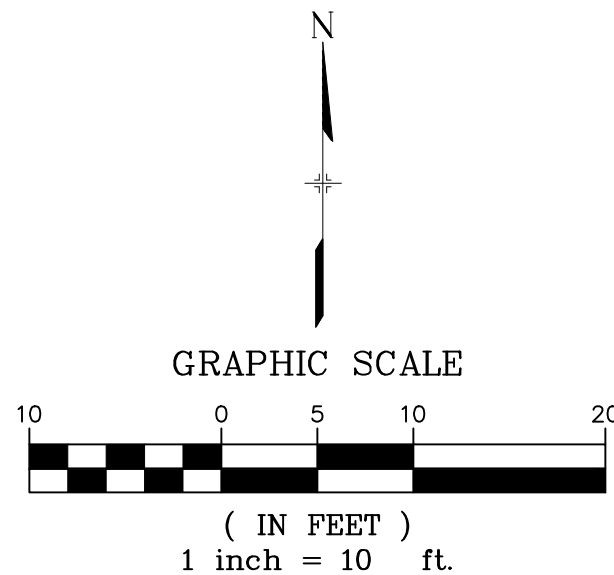
Know what's below.
Call before you dig.



DETAIL L
**SUNDAY GULCH DRIVE/
FALLING ROCK DRIVE
PED RAMP DETAILS**



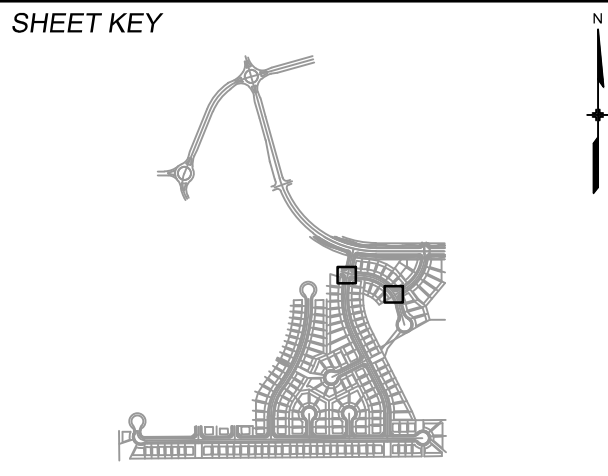
DETAIL M
**FALLING ROCK DRIVE/
BIG JOHNSON DRIVE
PED RAMP DETAILS**



BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH
DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE
NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS
BOULEVARD,
ELEVATION - 5897.89' U.S. SURVEY FT
BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST
QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF
THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST
CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4
CORNER OF SAID SECTION 9 (3 1/2" AULM. CAP PLS 10377)

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD16-21.dwg			
CTB FILE: ---			
PLOT DATE: July 2, 2019 1:48:36 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

DESIGN DATA:
SIDEWALKS: WIDTH 5'
LOCATION: ATTACHED ☒ DETACHED ☐
DESIGN SPEED: 25 MPH
CURB TYPE ☒ A ☐ B ☐ C ☐ D ☐ E
ROW WIDTH 50' FL-FL 32'
STREET TYPE RESIDENTIAL
PAVEMENT: TYPE: HMA ☐ PCC ☐
THICKNESS: _____
COMPOSITE SECTION: HMA _____ BASE _____



REVIEW:
STREET DESIGN: _____ DATE: _____
CURB & GUTTER REVIEW _____ DATE: _____
FINAL REVIEW _____ DATE: _____
DRAINAGE DESIGN: _____ DATE: _____
BY: _____
TRAFFIC DESIGN: _____ DATE: _____
BY: _____
"Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended."



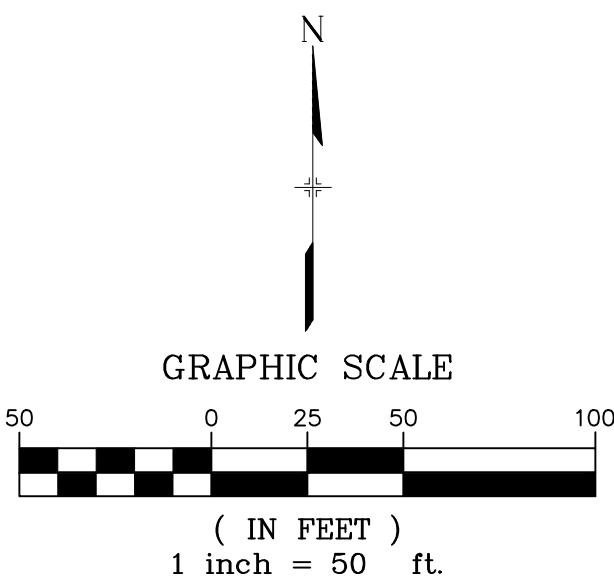
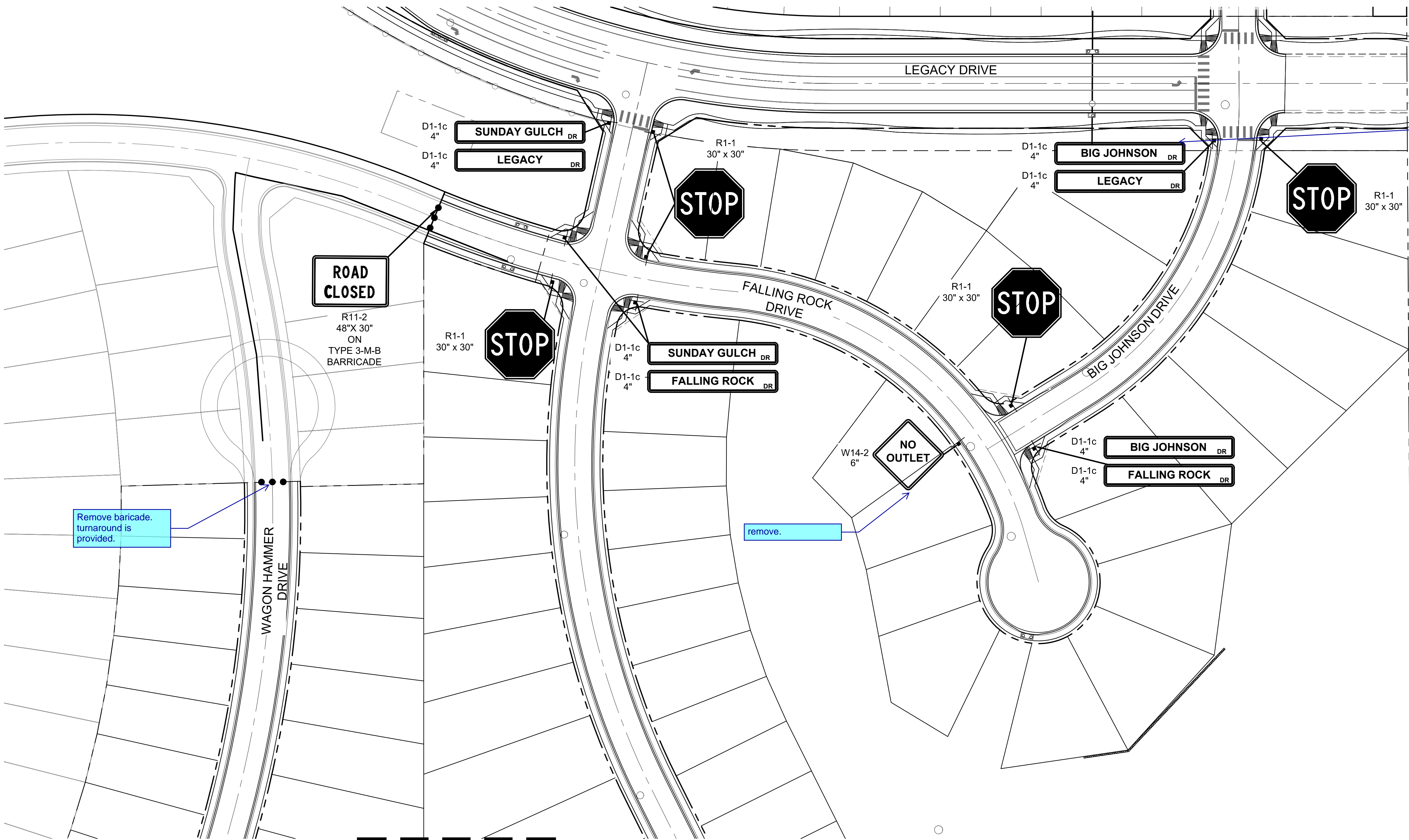
SEAL
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORMDRAIN IMPROVEMENT PLANS			
PED RAMP DETAILS			
DESIGNED BY: NMS	SCALE: 1"=40'	DATE ISSUED: JULY, 2019	DRAWING No. INT05
CHECKED BY: NMS	VERT. 1"=8'	SHEET 42 OF 71	



Know what's below.
Call before you dig.

Revise all. Per EPC standard signage and striping note 5 street name and regulatory stop signs shall be on the same post at intersections.

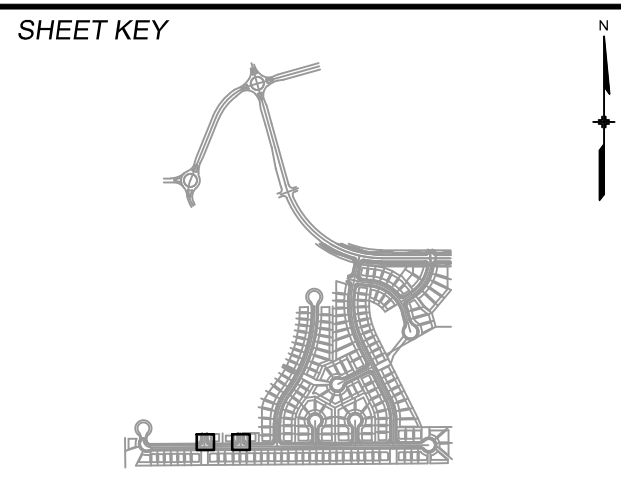


BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNITSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD,
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/2" AULM. CAP PLS 10377)

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\SN01.dwg			
CTB FILE: ---			
PLOT DATE: July 2, 2019 2:10:11 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

DESIGN DATA:	
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LOCATION: ATTACHED <input checked="" type="checkbox"/> DETACHED <input type="checkbox"/>	THICKNESS: _____
DESIGN SPEED: 25 MPH	COMPOSITE SECTION: HMA _____ BASE _____
CURB TYPE <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E	
ROW WIDTH 50' FL-FL 32'	
STREET TYPE RESIDENTIAL	



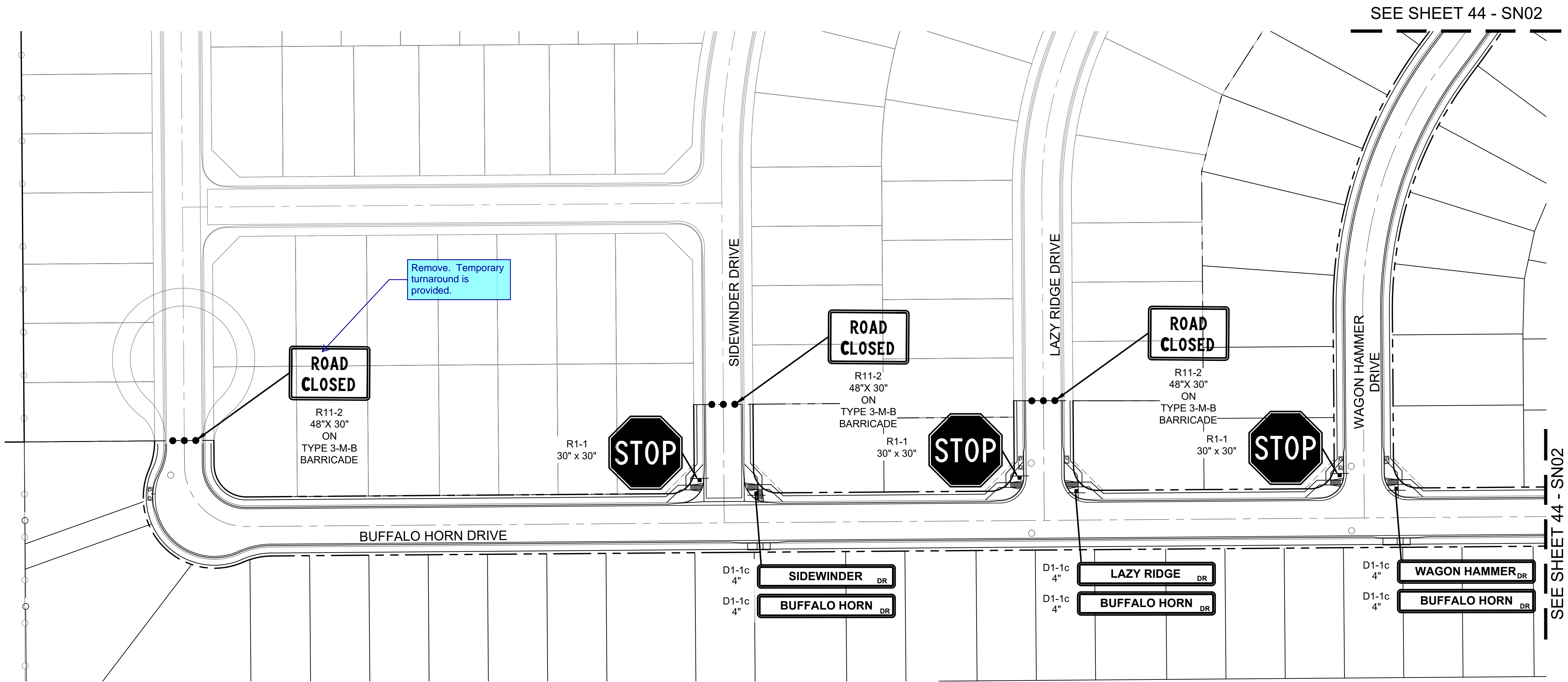
REVIEW:	
STREET DESIGN:	
CURB & GUTTER REVIEW _____	DATE: _____
FINAL REVIEW _____	DATE: _____
DRAINAGE DESIGN:	
BY: _____	DATE: _____
TRAFFIC DESIGN:	
BY: _____	DATE: _____
*Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.	

PREPARED BY:

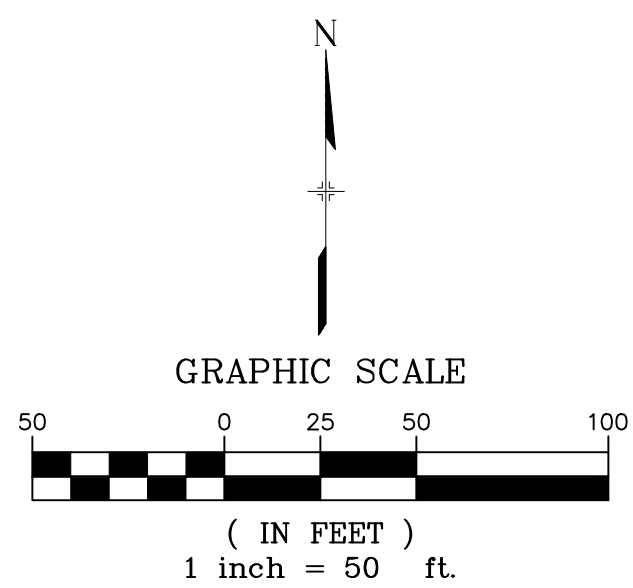
SEAL

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE			
FILING NO. 1			
ROADWAY & STORMDRAIN IMPROVEMENT PLANS			
PED RAMP DETAILS			
DESIGNED BY: NMS	SCALE: HORIZ. 1"=40'	DATE ISSUED: JULY, 2019	DRAWING No. SN03
CHECKED BY: NMS	VERT. 1"=8'	SHEET 45 OF 71	



SEE SHEET 44 - SN02

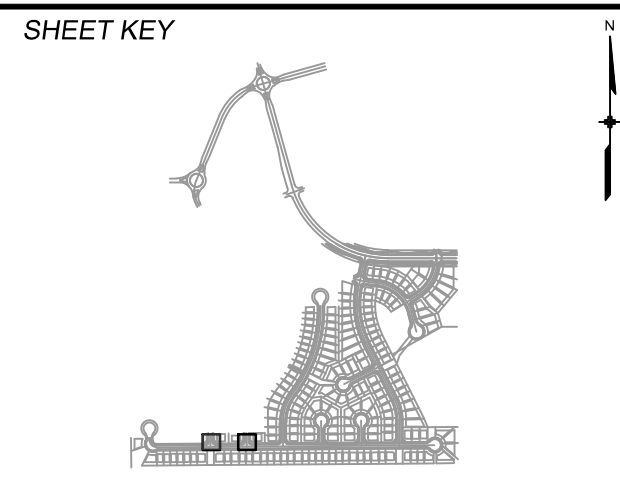


BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH
DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE
NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS
BOULEVARD,
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST
QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF
THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST
CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4
CORNER OF SAID SECTION 9 (3 1/2" AULM. CAP PLS 10377)

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\SN01.dwg			
CTB FILE: ---			
PLOT DATE: July 2, 2019 2:09:31 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

DESIGN DATA:	
SIDEWALKS: WIDTH 5'	PAVEMENT: TYPE: HMA □ . PCC □
LOCATION: ATTACHED □ DETACHED □	THICKNESS: _____
DESIGN SPEED: 25 MPH	COMPOSITE SECTION: HMA _____ BASE _____
CURB TYPE □A □B □C □D □E	
ROW WIDTH 50' FL-FL 32'	
STREET TYPE RESIDENTIAL	



REVIEW:	
STREET DESIGN:	
CURB & GUTTER REVIEW _____	DATE: _____
FINAL REVIEW _____	DATE: _____
DRAINAGE DESIGN:	
BY: _____	DATE: _____
TRAFFIC DESIGN:	
BY: _____	DATE: _____
<i>*Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.</i>	

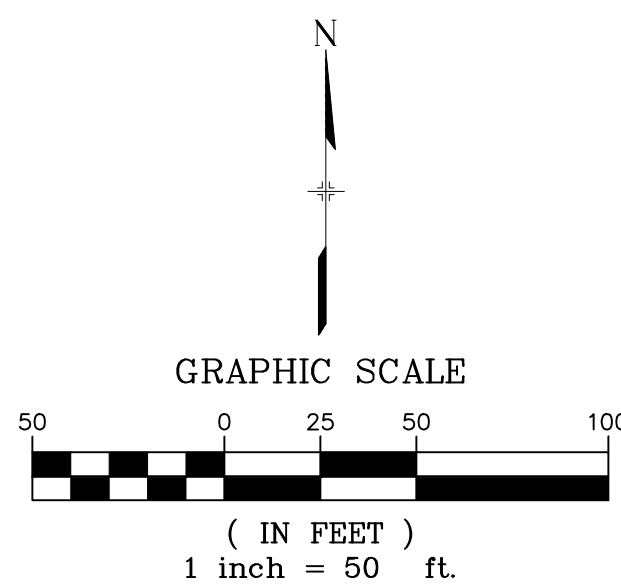
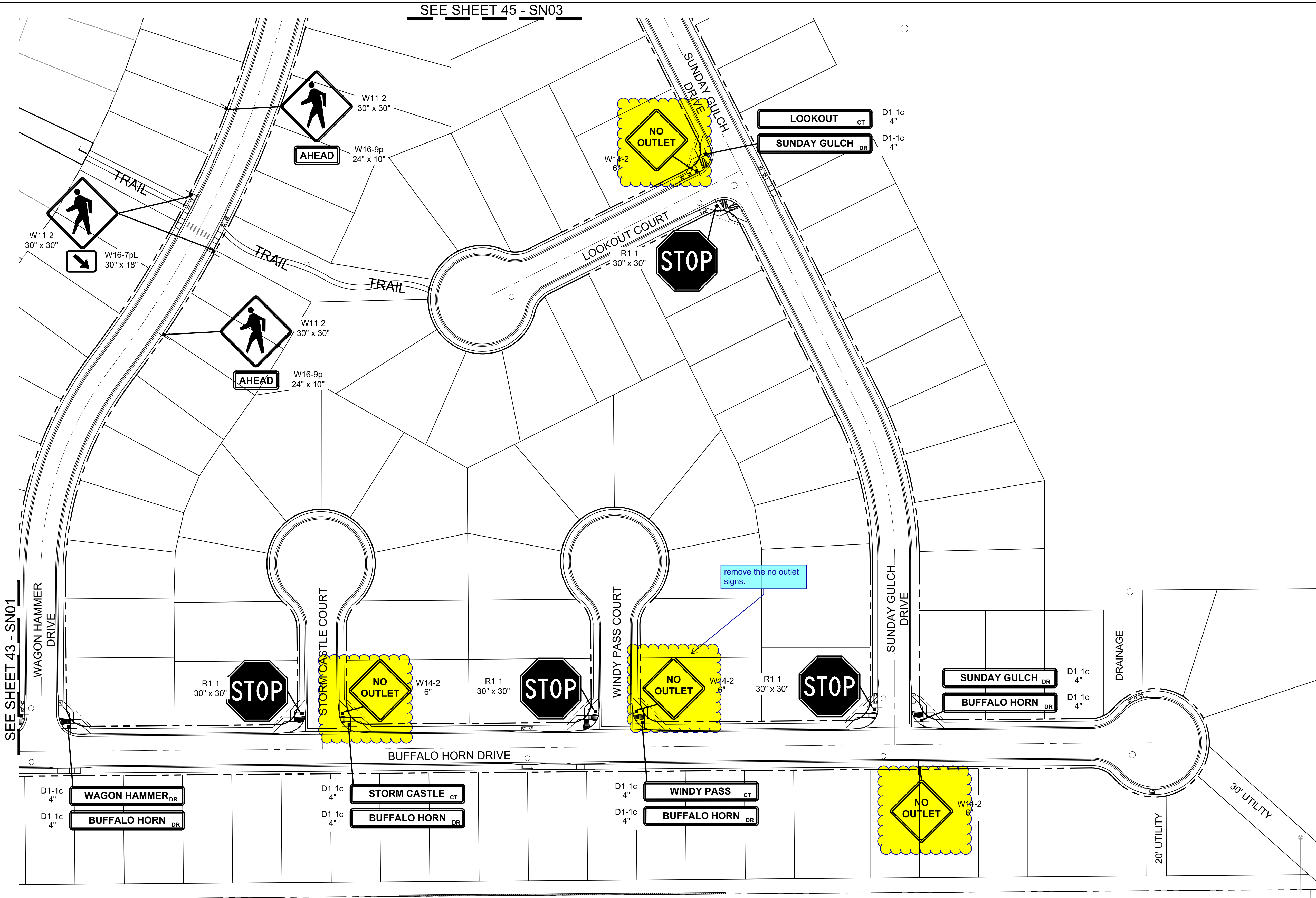
PREPARED BY:

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORMDRAIN IMPROVEMENT PLANS			
PED RAMP DETAILS			
DESIGNED BY: NMS	SCALE: HORIZ. 1"=40'	DATE ISSUED: JULY, 2019	DRAWING No. SN01
CHECKED BY: NMS	VERT. 1"=8'	SHEET 43 OF 71	



Know what's below.
Call before you dig.

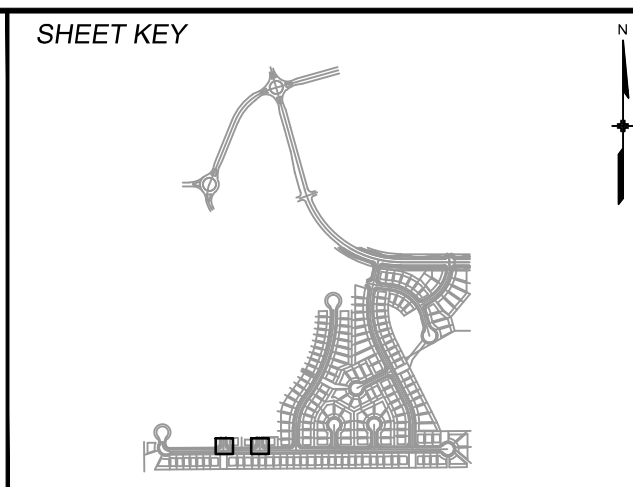


BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH
DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE
NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS
BOULEVARD,
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST
QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF
THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST
CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4
CORNER OF SAID SECTION 9 (3 1/2" AULM. CAP PLS 10377)

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\SN01.dwg			
CTB FILE:			
PLOT DATE: July 2, 2019 2:09:52 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

DESIGN DATA:	
SIDEWALKS: WIDTH 5'	PAVEMENT: TYPE: HMA □ . PCC □
LOCATION: ATTACHED □ DETACHED □	THICKNESS:
DESIGN SPEED: 25 MPH	COMPOSITE SECTION: HMA □ BASE □
CURB TYPE □A □B □C □D □E	
ROW WIDTH 50' FL-FL 32'	
STREET TYPE RESIDENTIAL	



REVIEW:	
STREET DESIGN:	
CURB & GUTTER REVIEW	DATE:
FINAL REVIEW	DATE:
DRAINAGE DESIGN:	
BY:	DATE:
TRAFFIC DESIGN:	
BY:	DATE:
*Filed in accordance with Section 7.7.906 (Drainage Ordinance) of the code of the City of Colorado Springs, 2001 as amended.	

PREPARED BY:

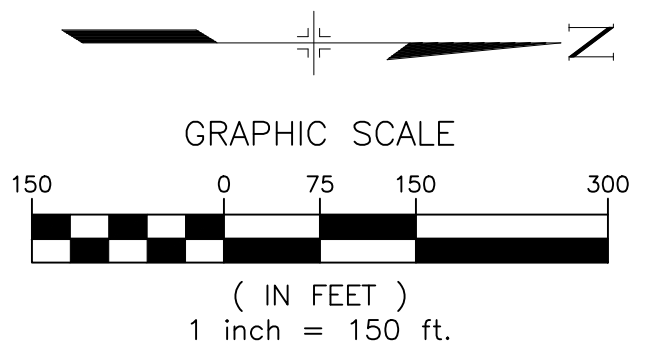
SEAL

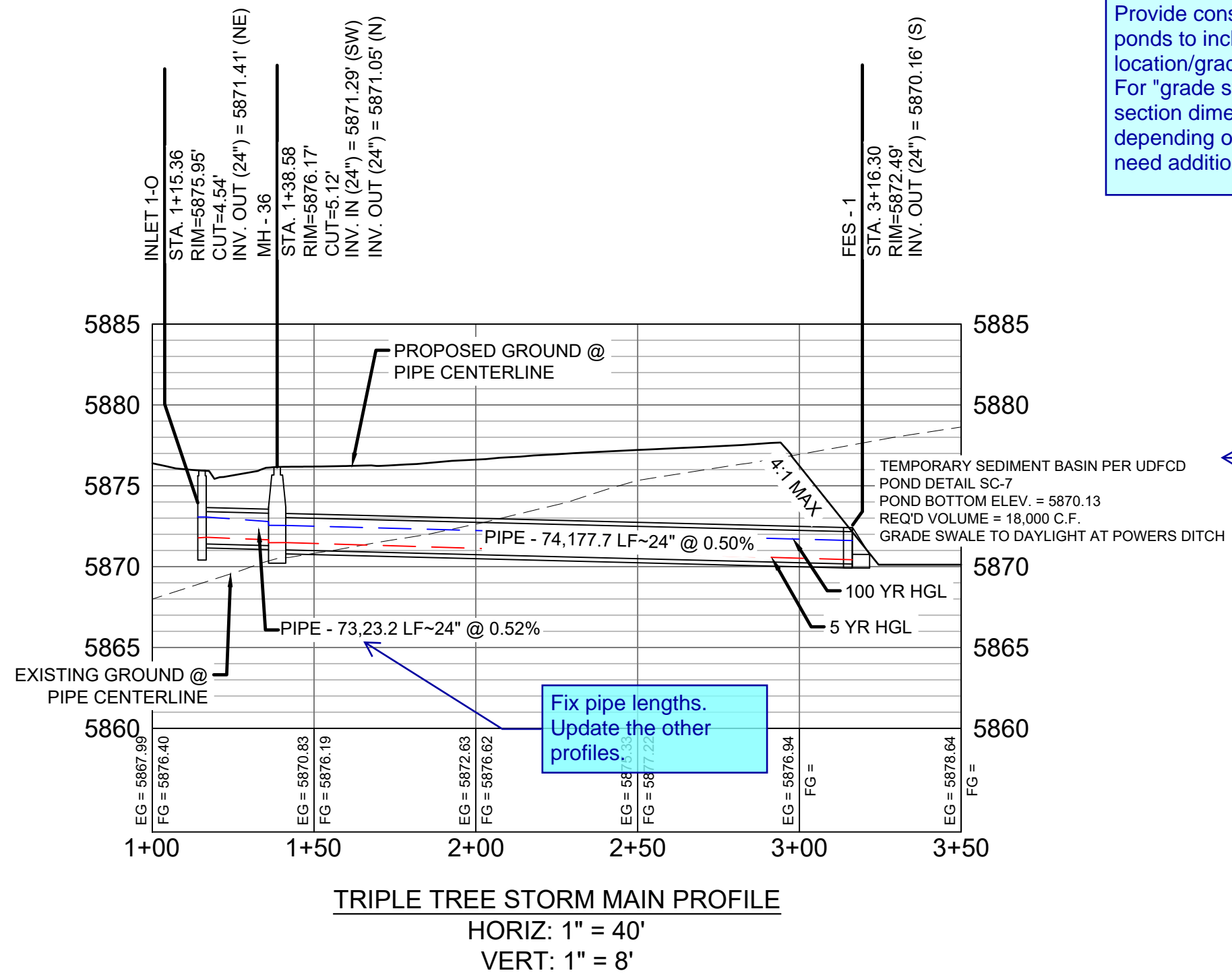
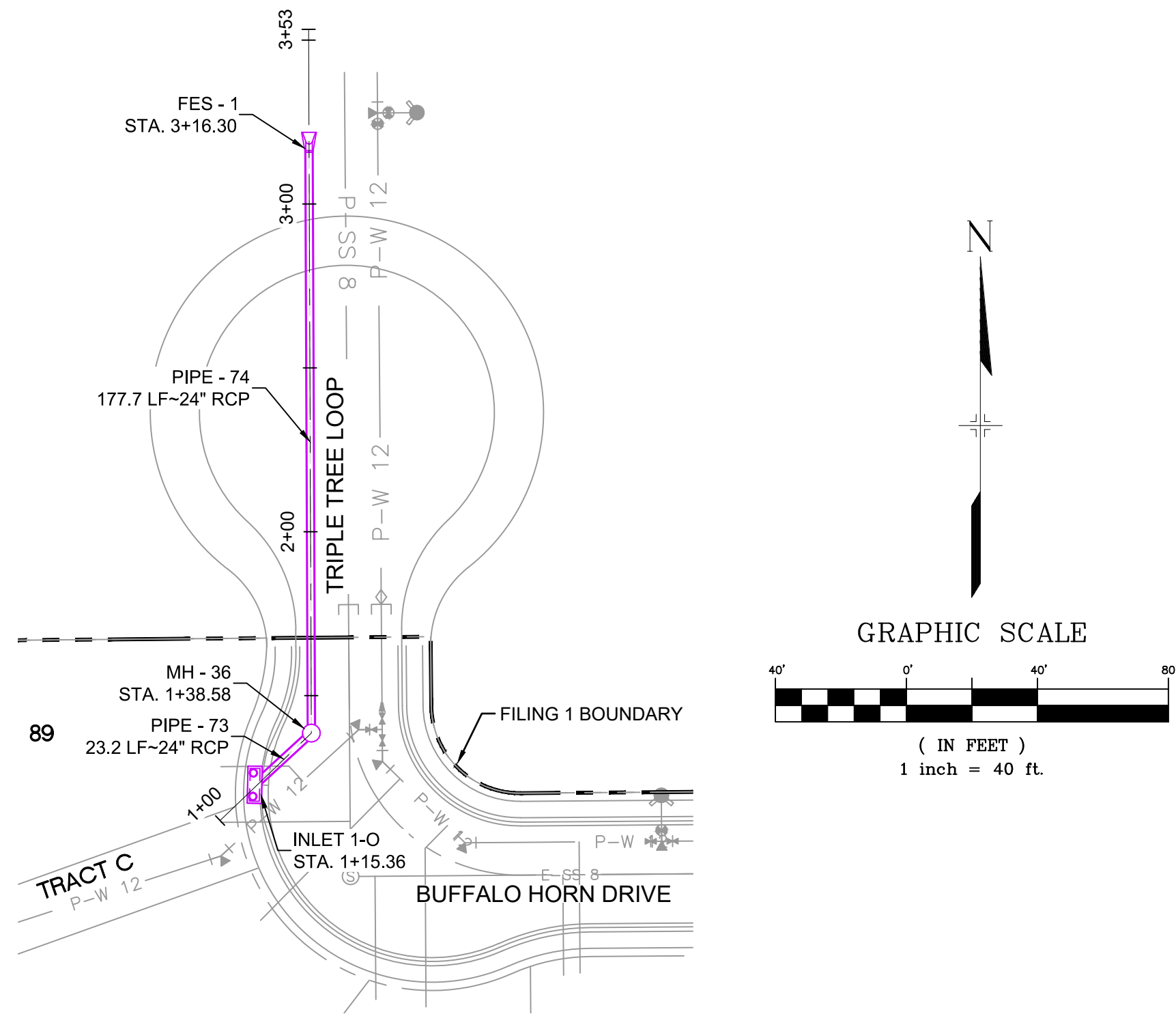
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE			
FILING NO. 1			
ROADWAY & STORMDRAIN IMPROVEMENT PLANS			
PED RAMP DETAILS			
DESIGNED BY: NMS	SCALE: 1"=40'	DATE ISSUED: JULY, 2019	DRAWING No. SN02
CHECKED BY: NMS	VERT. 1"=8'	SHEET 44 OF 71	

This site plan illustrates a residential development with the following features:

- Streets:** Buffalo Horn Drive, Lazy Ridge Dr., Wagon Hammer Dr., Storm Castle Ct., Windy Pass Ct., Sunday Gulch Dr., Falling Rock Dr., Legacy Dr., Frontside Dr., and Bradley Rd.
- Stormwater Management:**
 - SD01: Triple Tree Loop
 - SD02, SD03, SD04, SD05: Stormwater detention structures along Buffalo Horn Drive.
 - SD06, SD07, SD08, SD09, SD10, SD11, SD12, SD13, SD14, SD15, SD16, SD17: Various stormwater detention structures throughout the site.
 - Full Spectrum Detention Pond: Located near the bottom center of the plan.
- Other Features:**
 - Lot layouts and boundaries.
 - Property lines and easements.
 - Topographical features like a hill on the right side.

[illegible]



PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 73	N47°25'33"E	23.2'	0.52%	24" RCP
PIPE - 74	N00°13'35"W	177.7'	0.50%	24" RCP

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
FES - 1	24" FES	RIM = 5872.49 PIPE - 74 INV IN (24") = 5870.16	N: 5654.37 E: 11865.23
INLET 1-O	10' SUMP TYPE R INLET	RIM = 5875.95 PIPE - 73 INV OUT (24") = 5871.41	N: 5460.93 E: 11848.83
MH - 36	4' TYPE II MH	RIM = 5876.17 PIPE - 73 INV IN (24") = 5871.29 PIPE - 74 INV OUT (24") = 5871.05	N: 5476.64 E: 11865.94

- NOTES:
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 - PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF ALL STRUCTURES.
 - ALL PIPE BENDS ANGLES ARE MEASURED FROM THE CENTER OF PIPE. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES.
 - TOP OF BOX ELEVATIONS GIVEN FOR CDOT TYPE R INLETS REFER TO THE COUNTY STANDARD DETAIL FOR CORRESPONDING DESIGN ELEVATIONS.
 - ALL RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.
 - PIPES OF DIFFERENT SIZES ARE TO BE MATCHED TO THE CROWN OF THE INSIDE WALL OF PIPE.
 - ALL TYPE C INLETS ARE TO COLORADO DEPARTMENT OF TRANSPORTATION STANDARD TYPE M-604-10.
 - PER THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL, MANHOLES SHALL BE INSTALLED 1/8" BELOW THE SURFACE OF THE PAVEMENT ON THE LOWEST SIDE OF THE MANHOLE."

REFERENCE
DRAWINGS

No.	DATE	DESCRIPTION REVISIONS	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\SD01-05.dwg			
CTB FILE: ----			
PLOT DATE: July 2, 2019 12:23:03 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

SHEET KEY

BENCHMARK

COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING

BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4" AULM. CAP PLS 10377)

PREPARED BY:

Matrix
DESIGN GROUP

SEAL

PRELIMINARY
THIS DRAWING HAS NOT
BEEN APPROVED BY
GOVERNING AGENCIES AND
IS SUBJECT TO CHANGE

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

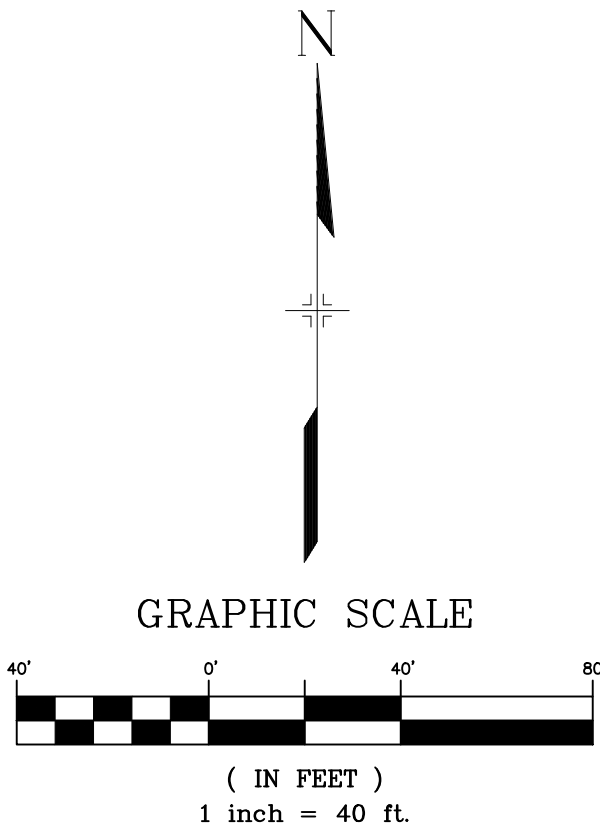
STORM DRAIN PLAN & PROFILE

DESIGNED BY: KMZ
DRAWN BY: LCB
CHECKED BY: NMS

SCALE
HORIZ 1" = 40'
VERT. 1" = 8'

DATE ISSUED: JULY, 2019
SHEET 47 OF 71

DRAWING No.
SD01



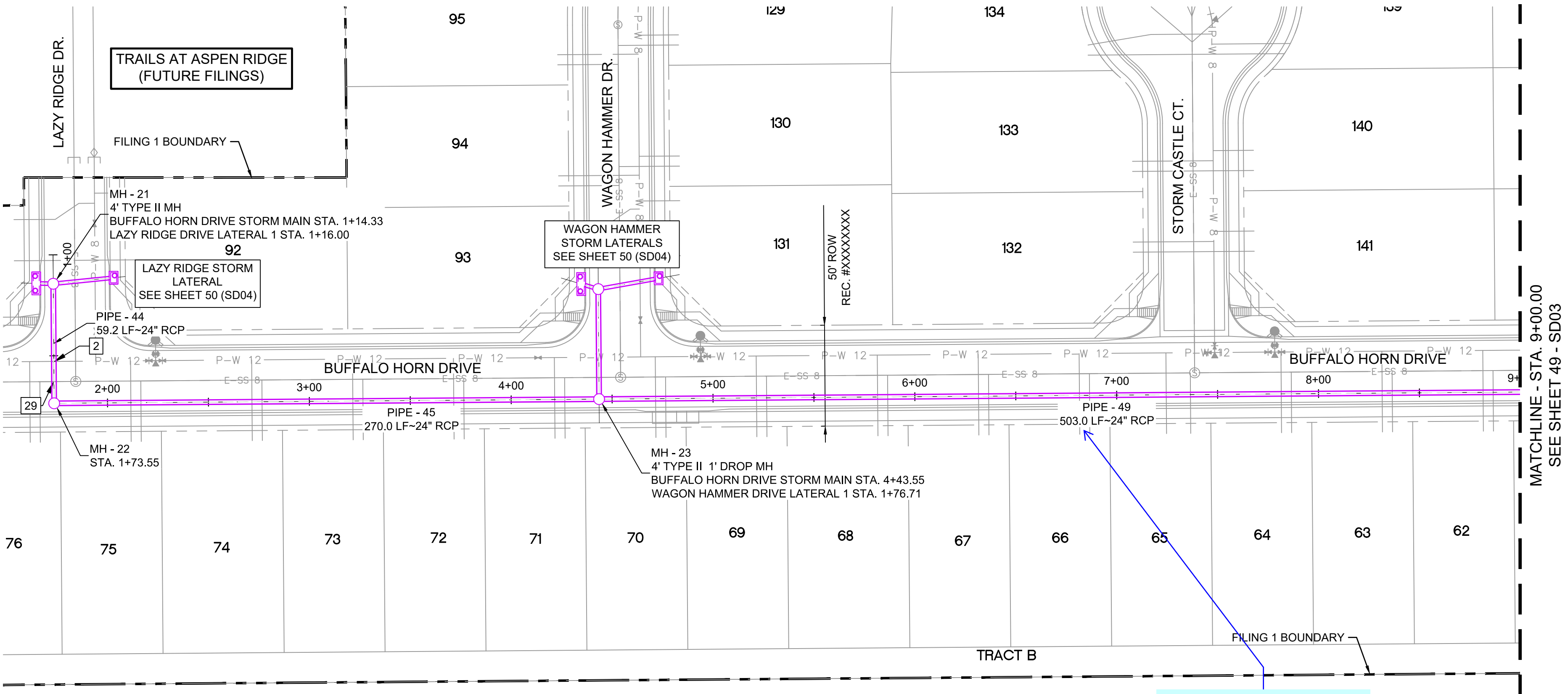
UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
2	N 5,448.39 E 12,592.08	12" PVC WATER 5862.36	24" RCP STORM 5864.36	2.00'
29	N 5,438.39 E 12,592.15	8" PVC SAN 5852.77	24" RCP STORM 5864.27	11.50'

PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 44	S00°26'25"E	59.2'	0.98%	24" RCP
PIPE - 45	N89°33'35"E	270.0'	3.78%	24" RCP
PIPE - 49	N89°33'35"E	503.0'	3.18%	24" RCP

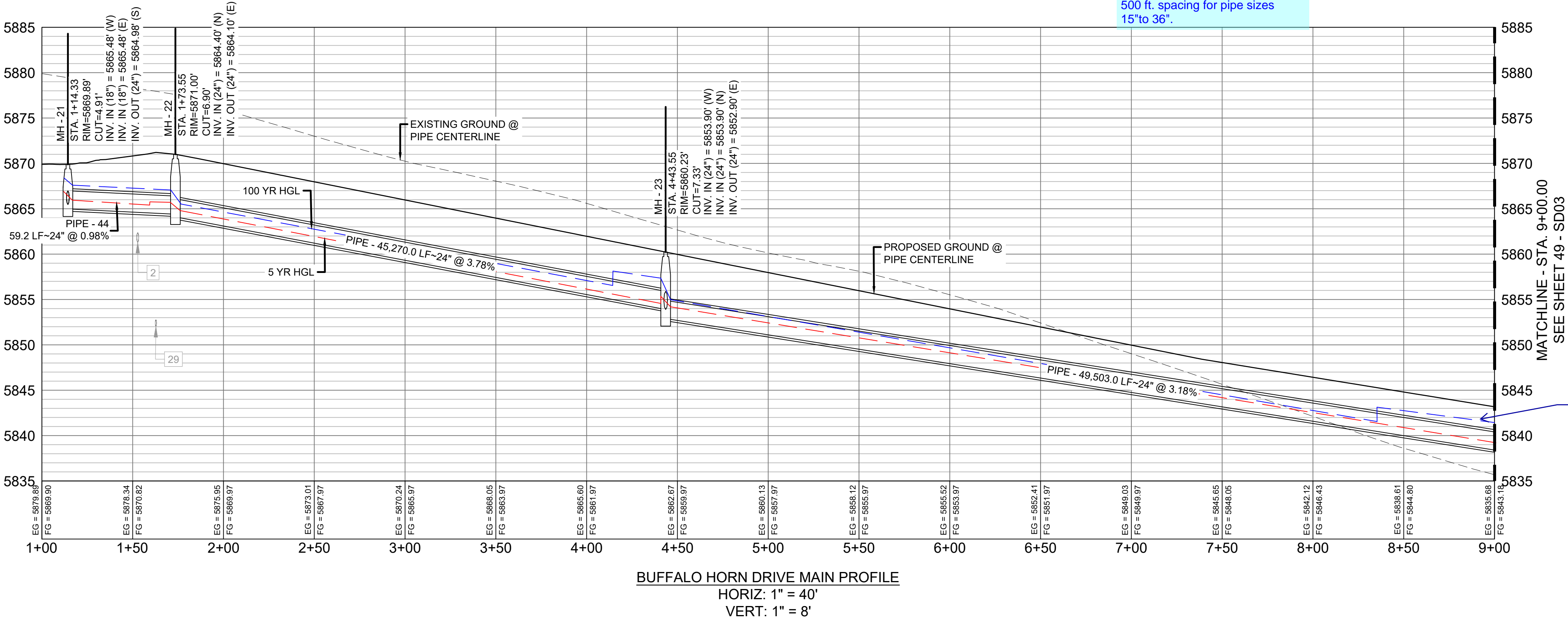
STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
MH - 21	4' TYPE II MH	RIM = 5869.89 PIPE - 42 INV IN (18") = 5865.48 PIPE - 43 INV IN (18") = 5865.48 PIPE - 44 INV OUT (24") = 5864.98	N: 5486.86 E: 12591.78
MH - 22	4' TYPE II MH	RIM = 5871.00 PIPE - 44 INV IN (24") = 5864.40 PIPE - 45 INV OUT (24") = 5864.10	N: 5427.64 E: 12592.24
MH - 23	4' TYPE II 1' DROP MH	RIM = 5860.23 PIPE - 45 INV IN (24") = 5853.90 PIPE - 46 INV IN (24") = 5853.90 PIPE - 49 INV OUT (24") = 5852.90	N: 5429.71 E: 12862.23

Identify on plans or notes that for the sections of stormdrain pipes with pressure head shall use watertight joints with a 100yr service life. (ECM 3.3.1.D)

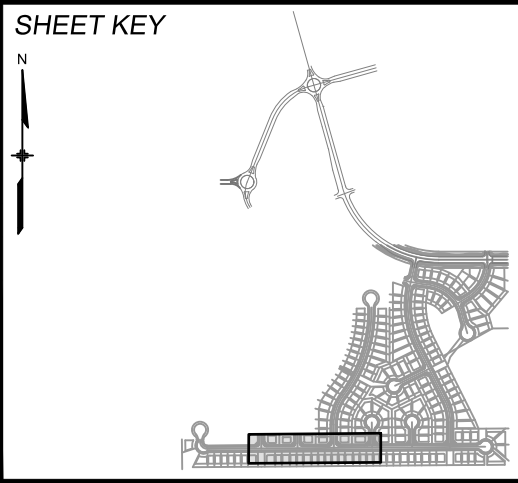
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Per DCM section 6.3.4 table 6-2 manholes shall be located at max. 500 ft. spacing for pipe sizes 15" to 36".



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PLOT DATE: July 2, 2019 12:23:21 PM			
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BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
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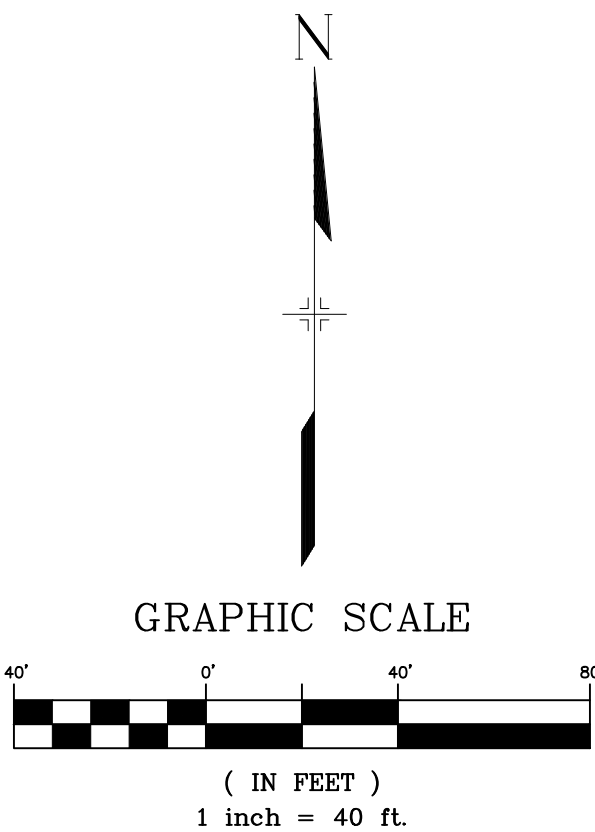
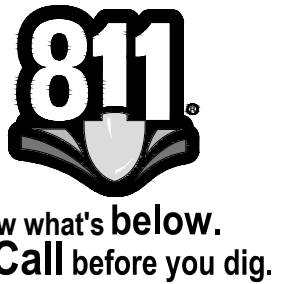


SEAL

PRELIMINARY
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FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS			
STORM DRAIN PLAN & PROFILE			
DESIGNED BY: KMC	SCALE: HORIZ 1" = 40'	DATE ISSUED: JULY, 2019	DRAWING No. SD02
CHECKED BY: NMS	VERT. 1" = 8'	SHEET 48 OF 71	

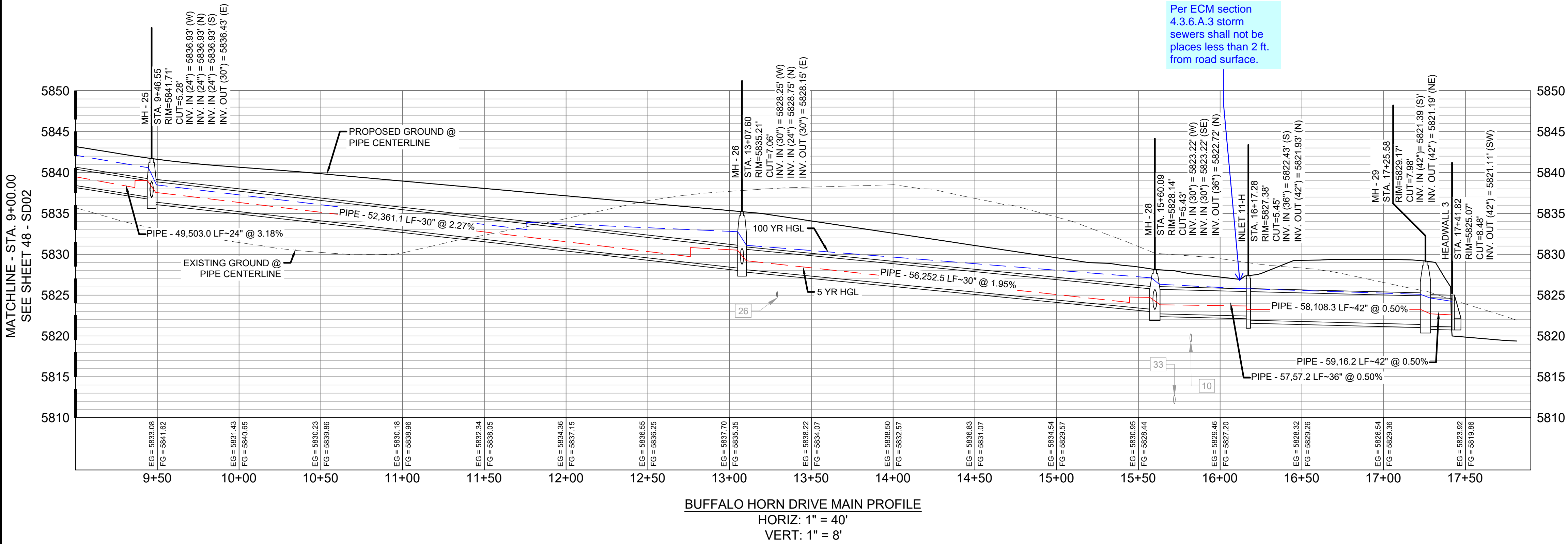
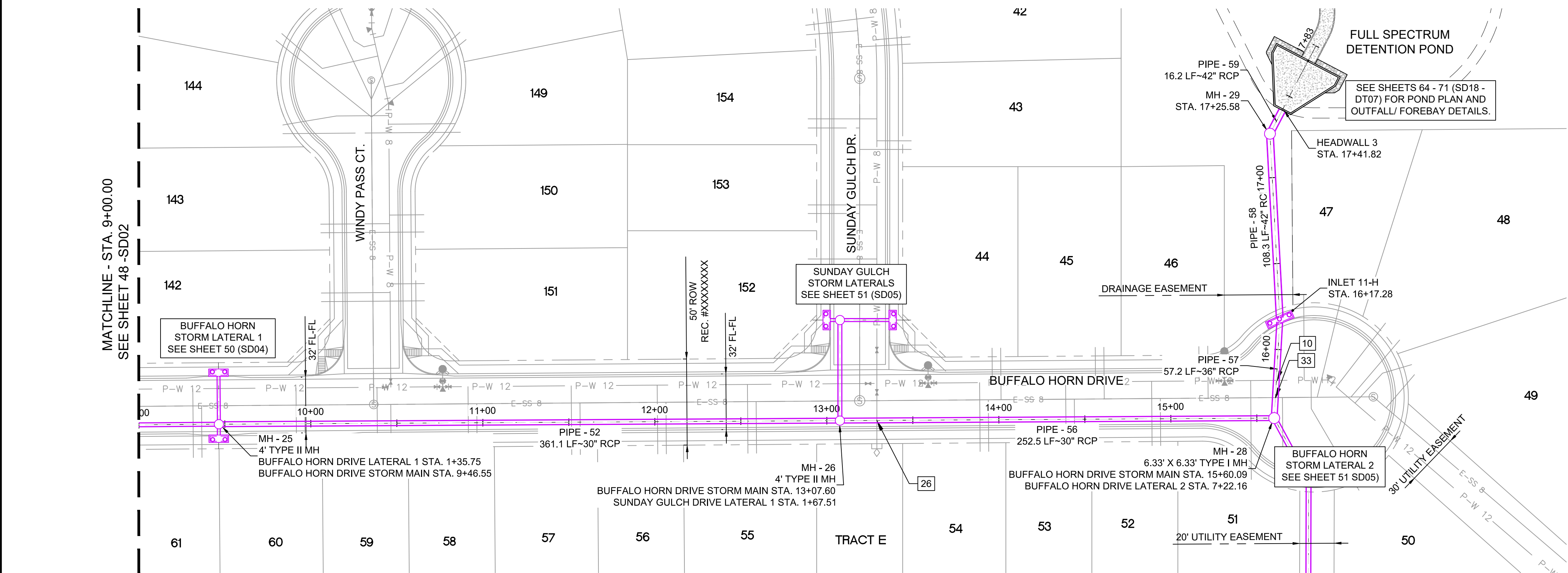


UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
10	N 5,459.05 E 13,980.01	12" PVC WATER 5820.28	36" RCP STORM 5822.28	2.00'
26	N 5,435.79 E 13,747.75	8" PVC WATER 5825.45	30" RCP STORM 5827.45	2.00'
33	N 5,449.06 E 13,979.41	8" PVC SAN 5812.75	36" RCP STORM 5821.31	8.56'

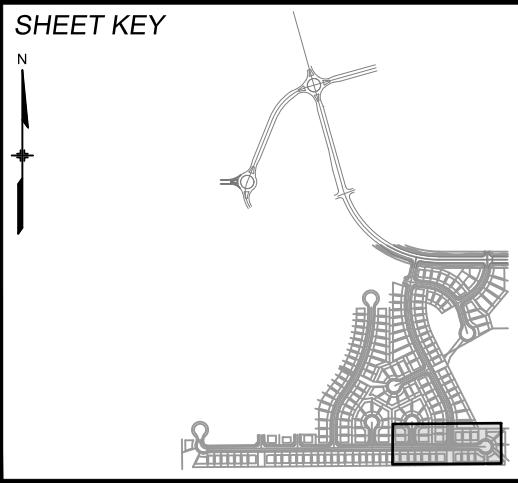
PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 49	N89°33'35"E	503.0'	3.18%	24" RCP
PIPE - 52	N89°40'08"E	361.1'	2.27%	30" RCP
PIPE - 57	N03°16'52"E	57.2'	0.50%	36" RCP
PIPE - 58	N03°02'37"W	108.3'	0.50%	42" RCP
PIPE - 59	N27°39'23"E	16.2'	0.50%	42" RCP
PIPE - 56	N89°40'08"E	252.5'	1.95%	30" RCP

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
INLET 11-H	10' SUMP TYPE R INLET	RIM = 5827.38 PIPE - 57 INV IN (36") = 5822.43 PIPE - 58 INV OUT (42") = 5821.93	N: 5494.22 E: 13982.02
MH - 25	4' TYPE II MH	RIM = 5841.71 PIPE - 49 INV IN (24") = 5836.93 PIPE - 50 INV IN (24") = 5836.93 PIPE - 51 INV IN (24") = 5836.93 PIPE - 52 INV OUT (30") = 5836.43	N: 5433.58 E: 13365.21
MH - 26	4' TYPE II MH	RIM = 5835.21 PIPE - 52 INV IN (30") = 5828.25 PIPE - 53 INV IN (24") = 5828.75 PIPE - 56 INV OUT (30") = 5828.15	N: 5435.67 E: 13726.25
MH - 28	6.33' X 6.33' TYPE I MH	RIM = 5828.14 PIPE - 56 INV IN (30") = 5823.22 PIPE - 60 INV IN (30") = 5823.22 PIPE - 57 INV OUT (36") = 5822.72	N: 5437.13 E: 13978.74
MH - 29	6.33' X 6.33' TYPE I MH	RIM = 5829.17 PIPE - 58 INV IN (42") = 5821.39 PIPE - 59 INV OUT (42") = 5821.19	N: 5602.37 E: 13976.27

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REFERENCE DRAWINGS			
No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\SD01-05.dwg			
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BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX. LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/2 CORNER OF SAID SECTION 9 (3 1/2" AULM. CAP PLS 10377)



SEAL

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MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS			
STORM DRAIN PLAN & PROFILE			
DESIGNED BY: KMZ	SCALE: HORIZ 1" = 40'	DATE ISSUED: JULY, 2019	DRAWING No. SD03
DRAWN BY: LCB	VERT. 1" = 8'	SHEET 49 OF 71	
CHECKED BY: NMS			

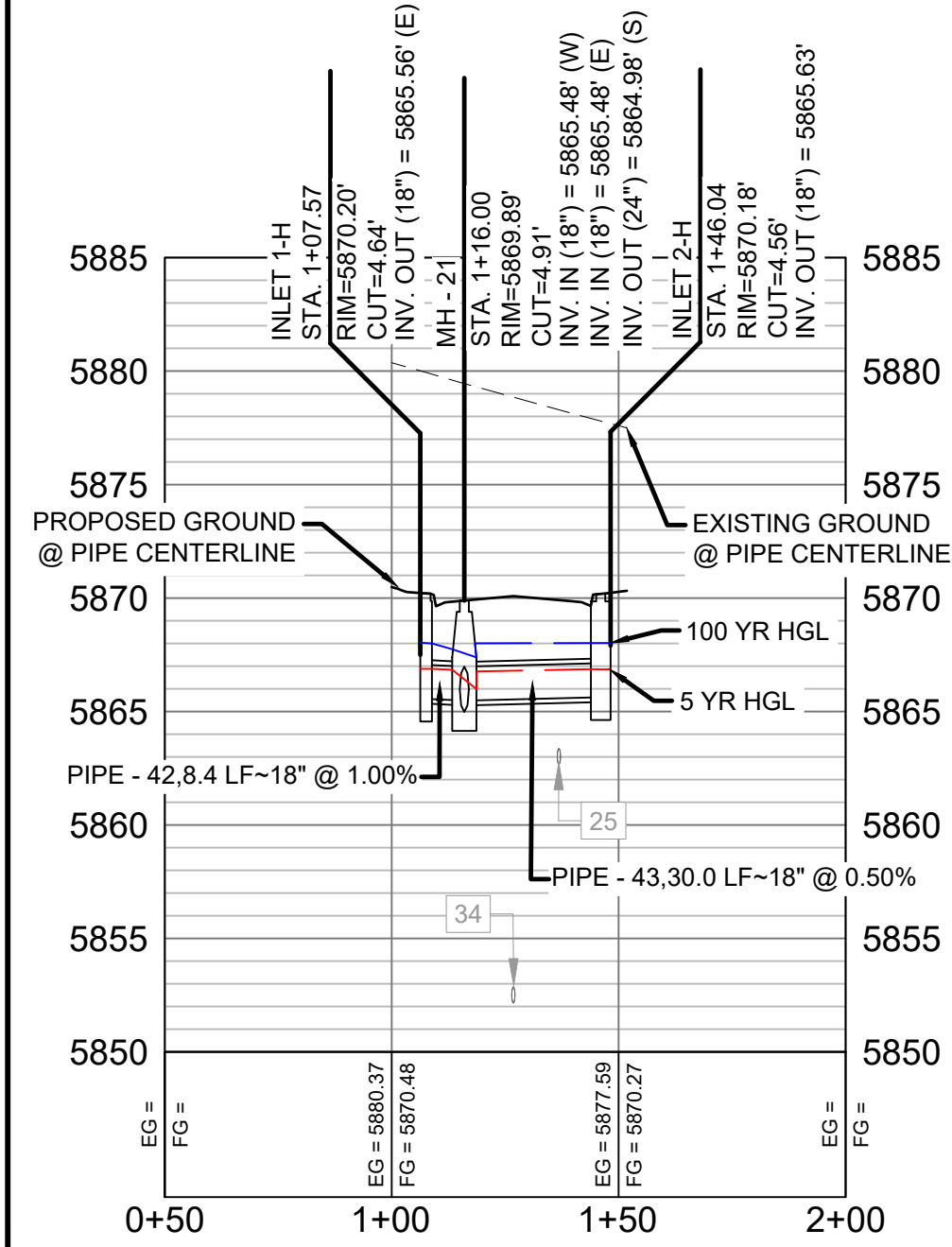
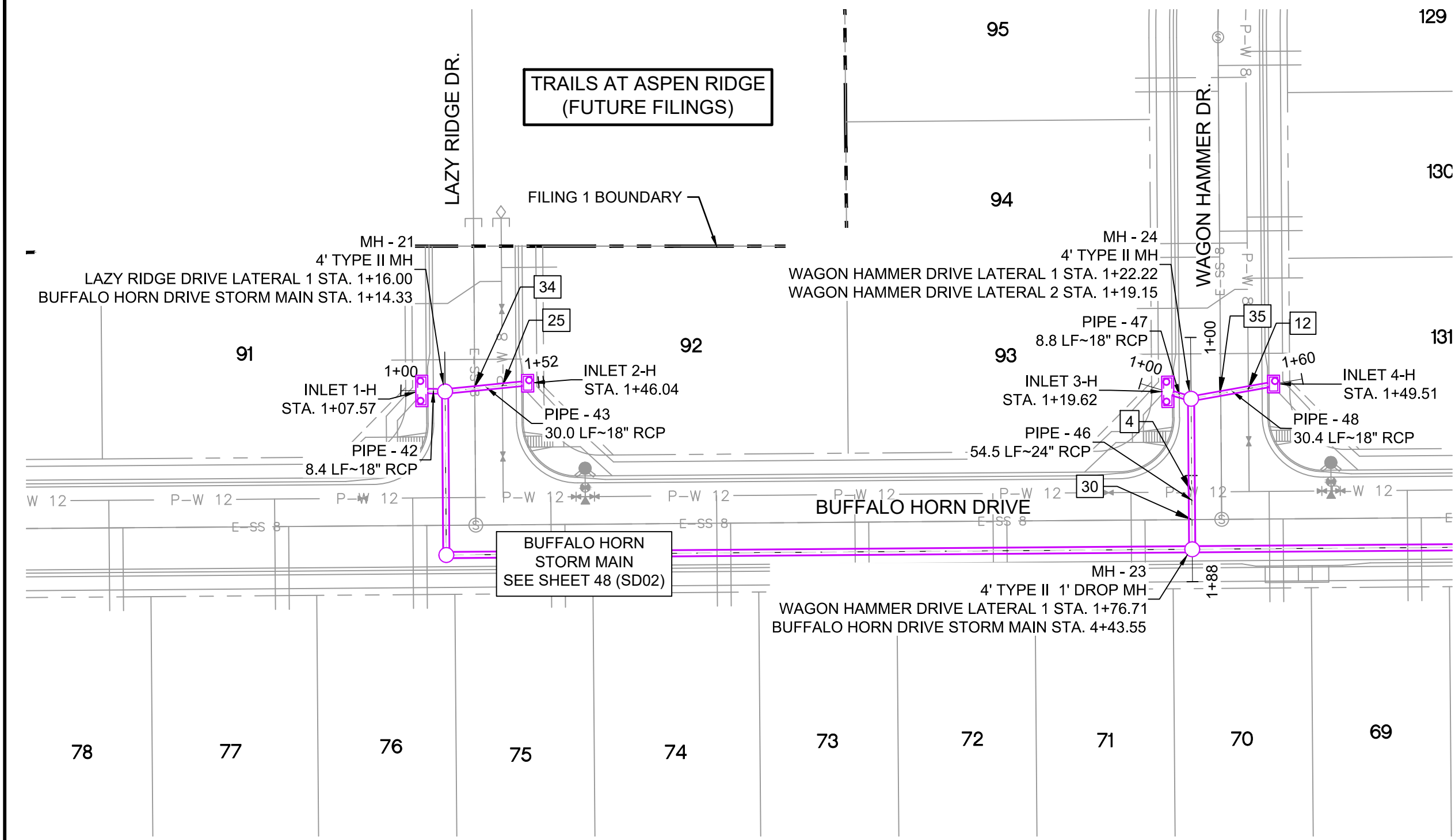


UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
4	N 5,450.46 E 12,862.07	12" PVC WATER 5851.76	24" RCP STORM 5853.76	2.00'
7	N 5,454.33 E 13,365.05	12" PVC WATER 5835.33	18" RCP STORM 5837.33	2.00'
12	N 5,487.91 E 12,882.53	8" PVC WATER 5852.57	18" RCP STORM 5854.57	2.00'
25	N 5,488.93 E 12,612.52	8" PVC WATER 5863.38	18" RCP STORM 5865.38	2.00'
30	N 5,440.41 E 12,862.12	8" PVC SAN 5846.23	24" RCP STORM 5853.64	7.41'
31	N 5,444.33 E 13,365.12	8" PVC SAN 5829.51	18" RCP STORM 5837.34	7.83'
34	N 5,487.95 E 12,602.18	8" PVC SAN 5852.87	18" RCP STORM 5865.42	12.55'
35	N 5,486.13 E 12,872.55	8" PVC SAN 5846.52	18" RCP STORM 5854.46	7.94'

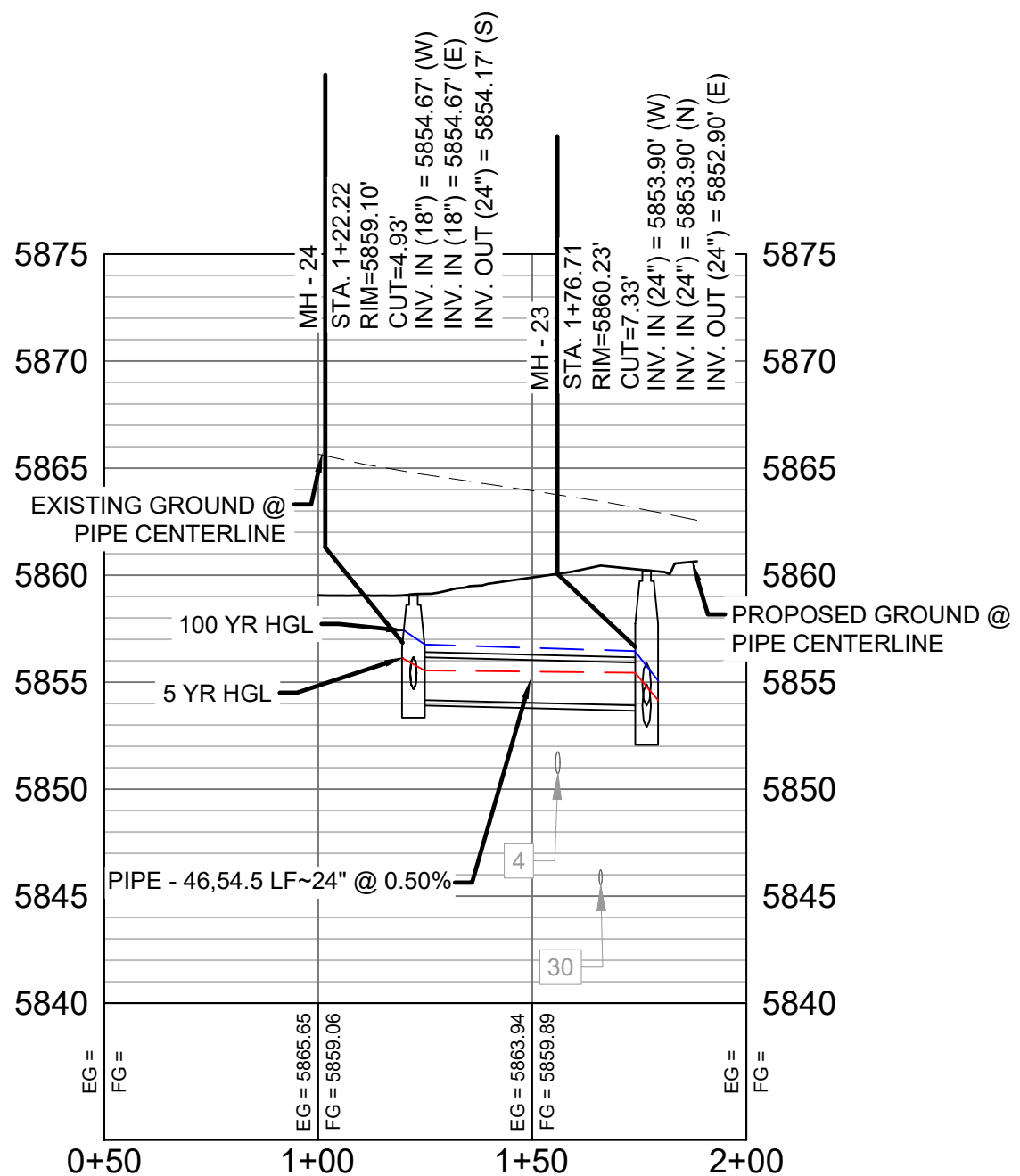
PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 42	S88°38'36"E	8.4'	1.00%	18" RCP
PIPE - 50	N00°26'25"W	29.9'	0.50%	24" RCP
PIPE - 51	S00°30'03"W	8.4'	0.50%	24" RCP
PIPE - 46	N00°26'25"W	54.5'	0.50%	24" RCP
PIPE - 47	N73°17'59"W	8.8'	0.50%	18" RCP
PIPE - 48	N79°52'38"E	30.4'	0.50%	18" RCP
PIPE - 43	N84°18'03"E	30.0'	0.50%	18" RCP

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
INLET 1-H	10' SUMP TYPE R INLET	RIM = 5870.20 PIPE - 42 INV OUT (18") = 5865.56	N: 5487.06 E: 12583.36
INLET 2-H	5' SUMP TYPE R INLET	RIM = 5870.18 PIPE - 43 INV OUT (18") = 5865.63	N: 5489.84 E: 12621.68
INLET 3-H	10' SUMP TYPE R INLET	RIM = 5859.36 PIPE - 47 INV OUT (18") = 5854.72	N: 5486.74 E: 12853.37
INLET 4-H	5' SUMP TYPE R INLET	RIM = 5859.34 PIPE - 48 INV OUT (18") = 5854.82	N: 5489.55 E: 12891.69
INLET 5-H	10' ON-GRADE TYPE R INLET	RIM = 5841.99 PIPE - 50 INV OUT (24") = 5837.08	N: 5463.49 E: 13364.98
INLET 6-H	10' ON-GRADE TYPE R INLET	RIM = 5841.99 PIPE - 51 INV OUT (24") = 5836.97	N: 5425.15 E: 13365.13
MH - 21	4' TYPE II MH	RIM = 5869.89 PIPE - 42 INV IN (18") = 5865.48 PIPE - 43 INV IN (18") = 5865.48 PIPE - 44 INV OUT (24") = 5864.98	N: 5486.86 E: 12591.78
MH - 23	4' TYPE II 1" DROP MH	RIM = 5860.23 PIPE - 45 INV IN (24") = 5853.90 PIPE - 46 INV IN (24") = 5853.90 PIPE - 49 INV OUT (24") = 5852.90	N: 5429.71 E: 12862.23
MH - 24	4' TYPE II MH	RIM = 5859.10 PIPE - 47 INV IN (18") = 5854.67 PIPE - 48 INV IN (18") = 5854.67 PIPE - 46 INV OUT (24") = 5854.17	N: 5484.21 E: 12861.81
MH - 25	4' TYPE II MH	RIM = 5841.71 PIPE - 49 INV IN (24") = 5836.93 PIPE - 50 INV IN (24") = 5836.93 PIPE - 51 INV IN (24") = 5836.93 PIPE - 52 INV OUT (30") = 5836.43	N: 5433.58 E: 13365.21

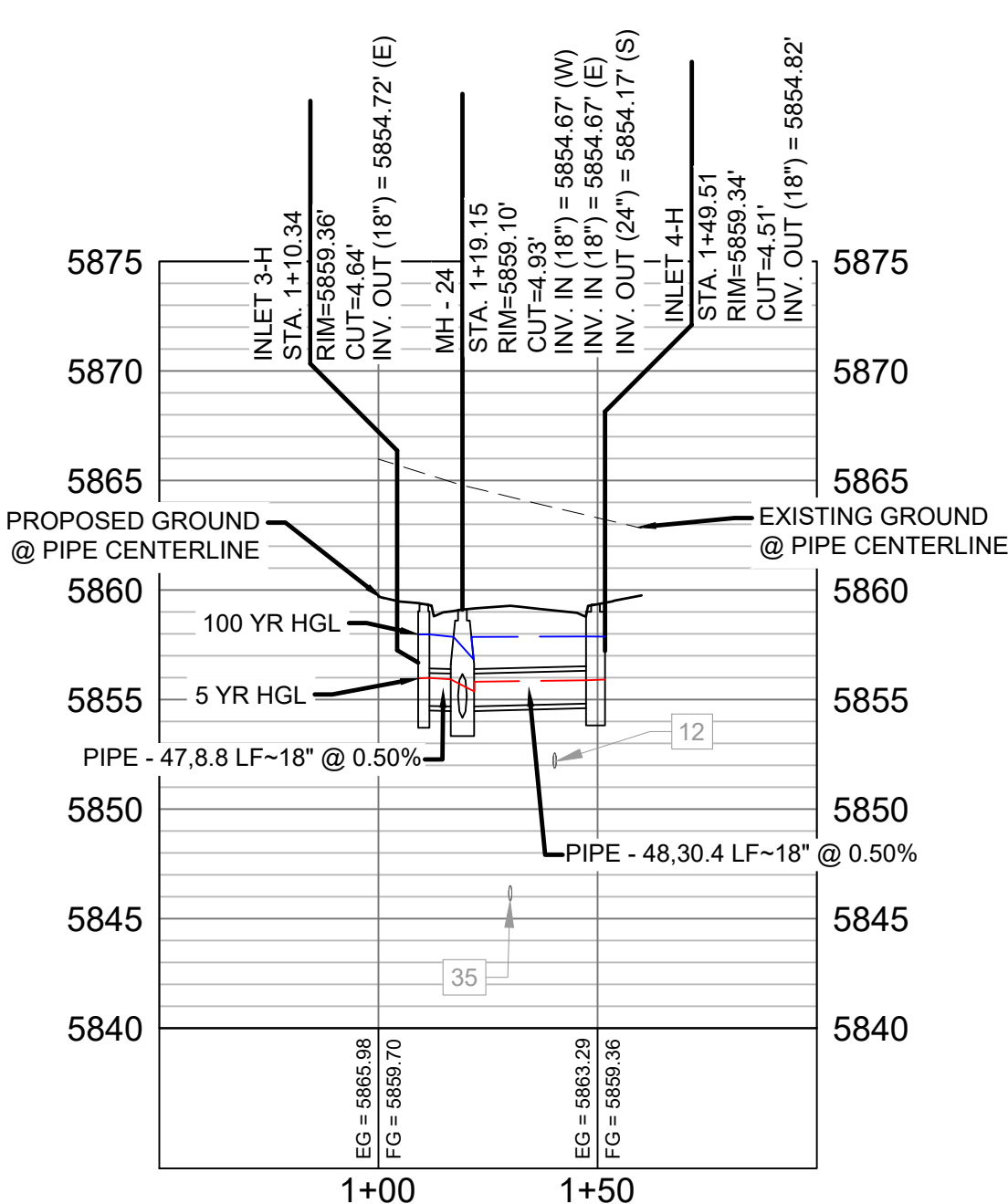
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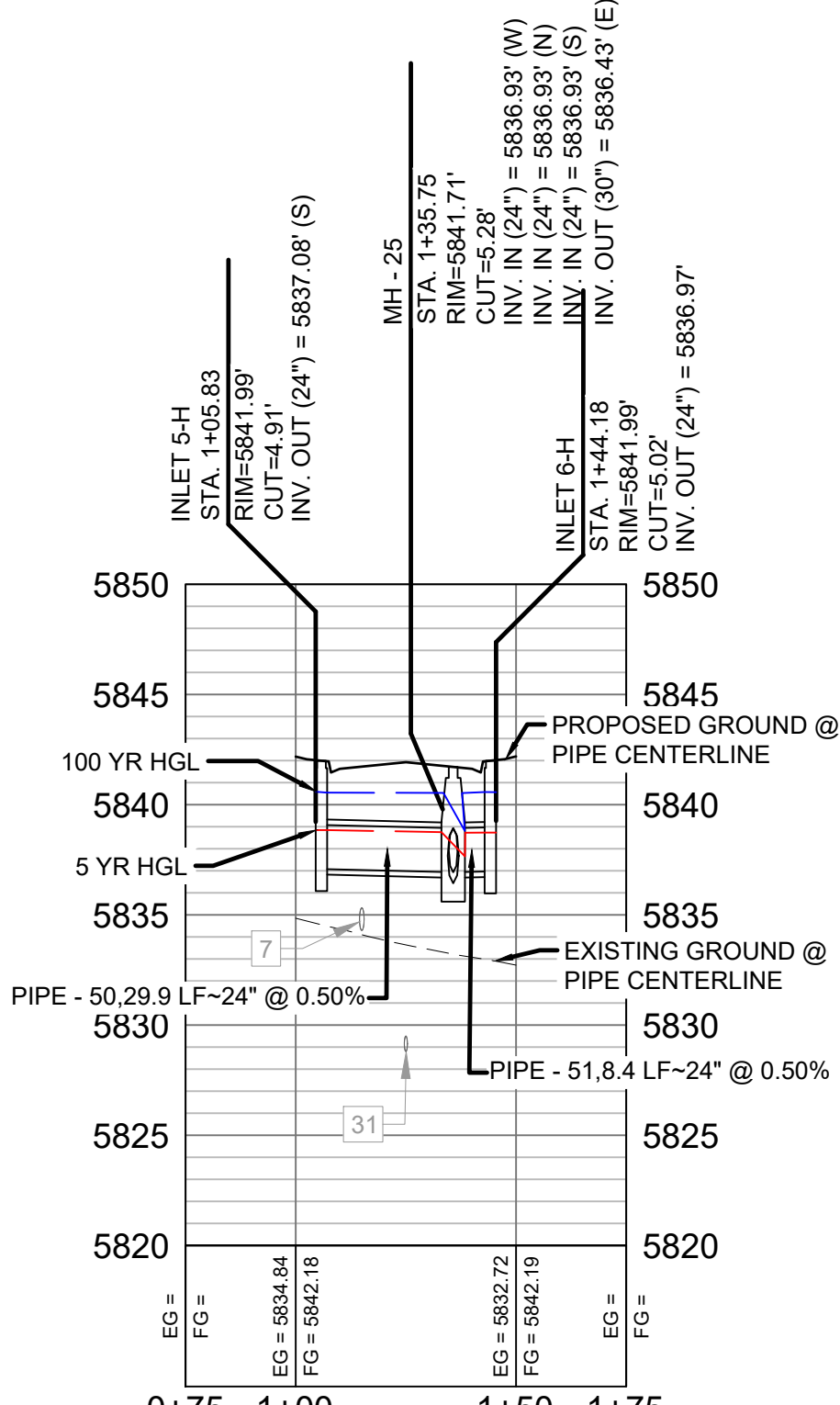
LAZY RIDGE DRIVE LATERAL 1 PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'



WAGON HAMMER DRIVE LATERAL 1 PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'

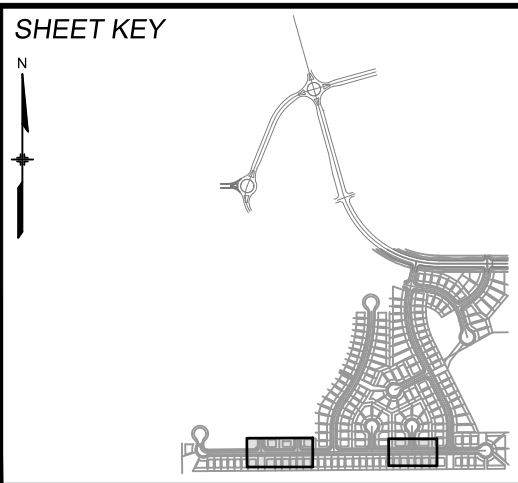


WAGON HAMMER DRIVE LATERAL 2 PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'



BUFFALO HORN DRIVE LATERAL 1 PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'

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CTB FILE: ---			
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ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2' AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4' AULM. CAP PLS 10377)



SEAL

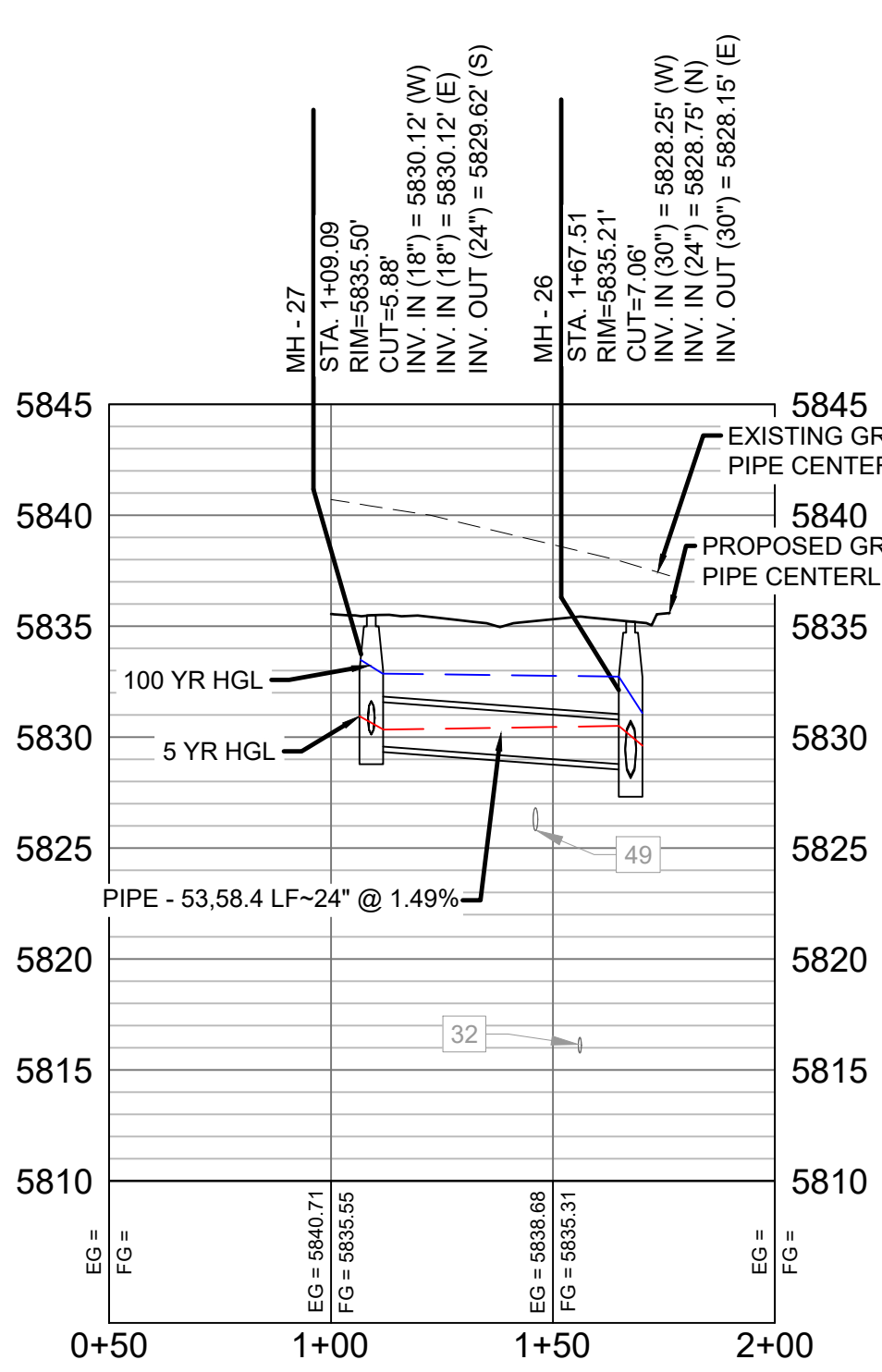
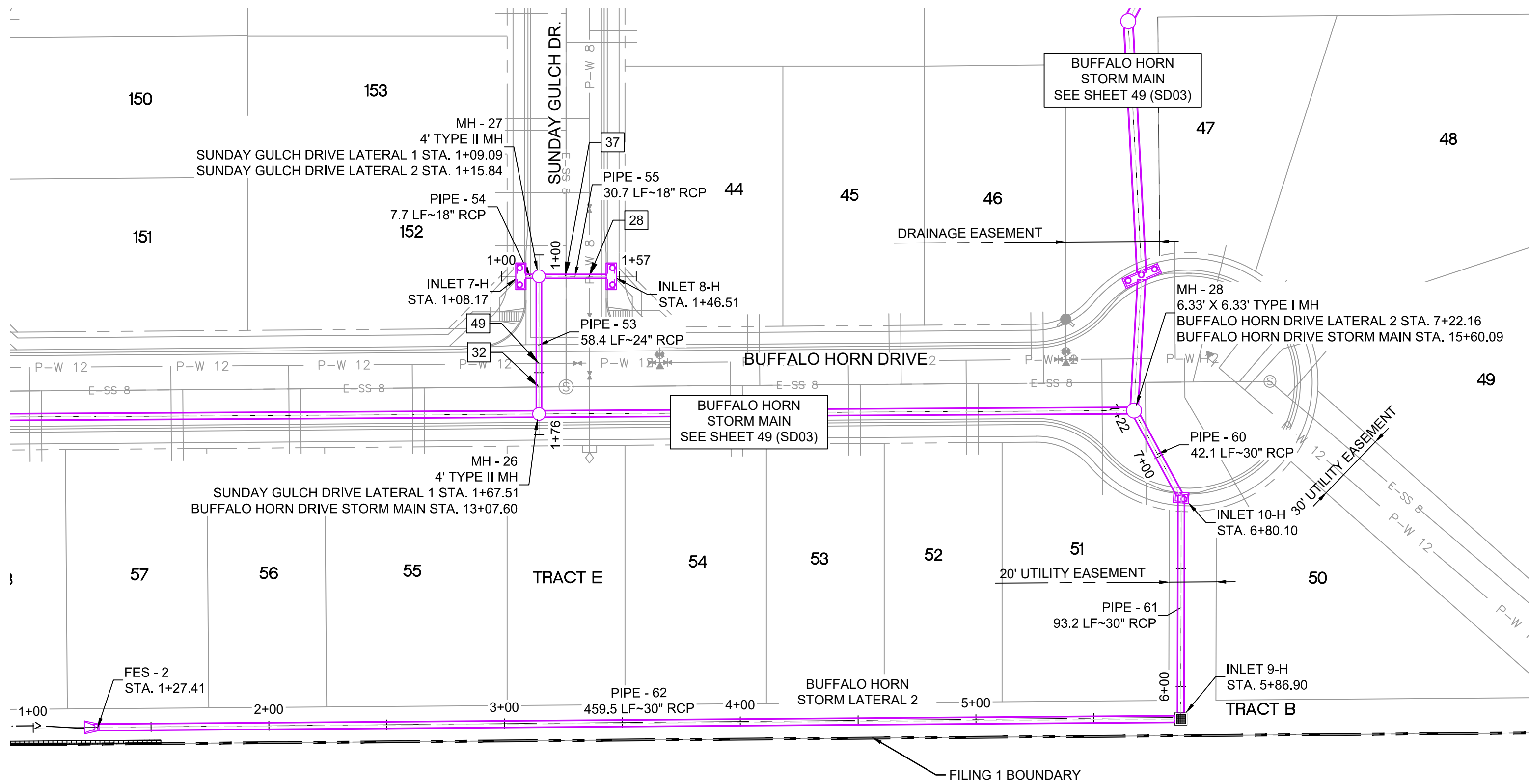
PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

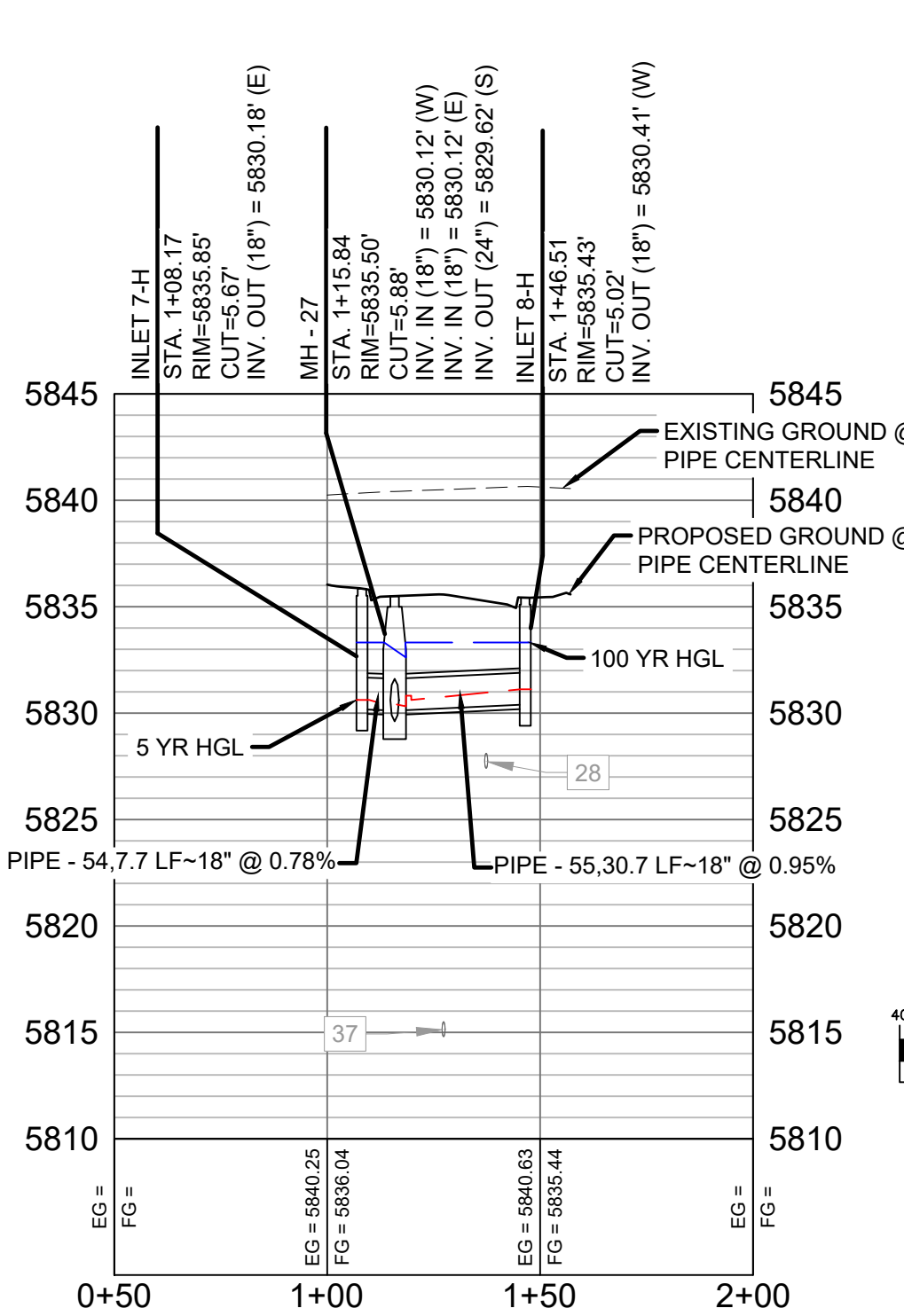
TRAILS AT ASPEN RIDGE				
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS				
STORM DRAIN PLAN & PROFILE				
DESIGNED BY: KMZ	SCALE: 1" = 40'	DATE ISSUED: JULY, 2019	DRAWING No.	SD04
CHECKED BY: NMS	VERT. 1" = 8'	SHEET 50 OF 71		



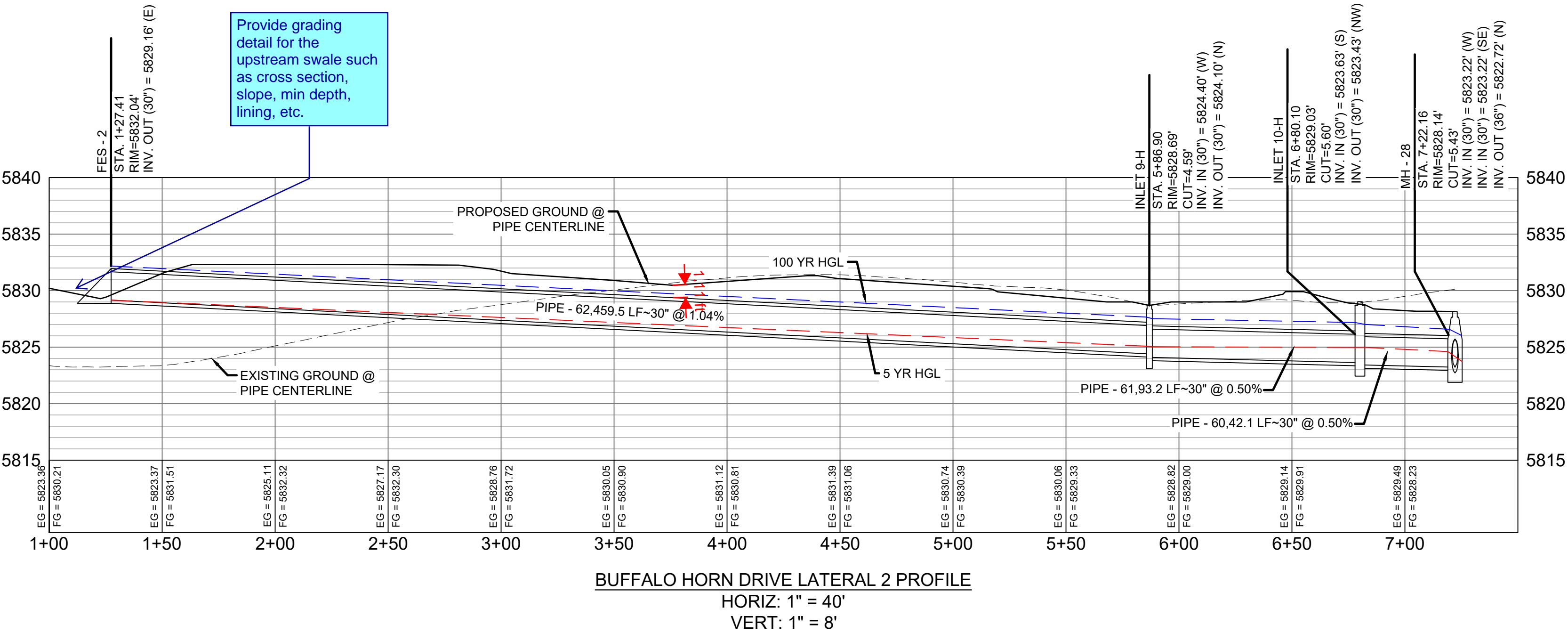
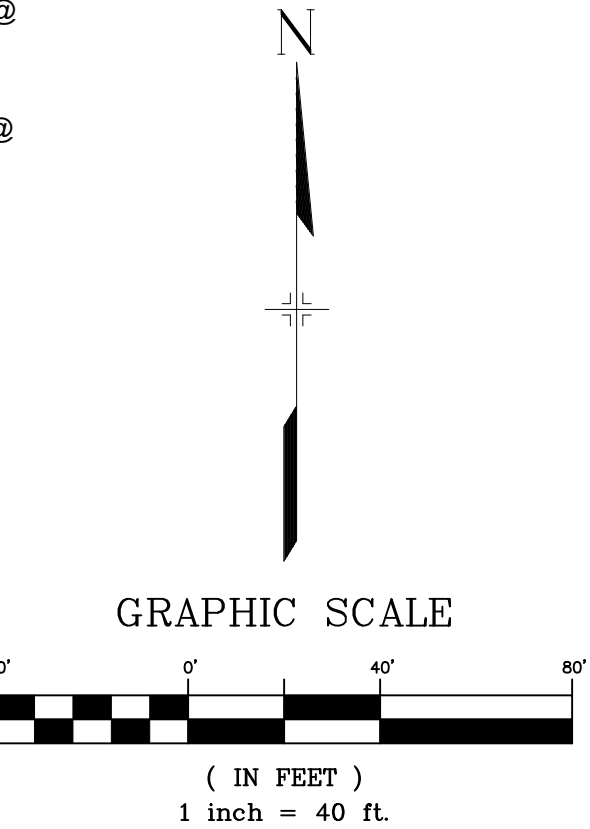
Know what's below.
Call before you dig.



SUNDAY GULCH DRIVE LATERAL 1 PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'



SUNDAY GULCH DRIVE LATERAL 2 PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'



BUFFALO HORN DRIVE LATERAL 2 PROFILE
HORIZ: 1" = 40'
VERT: 1" = 8'

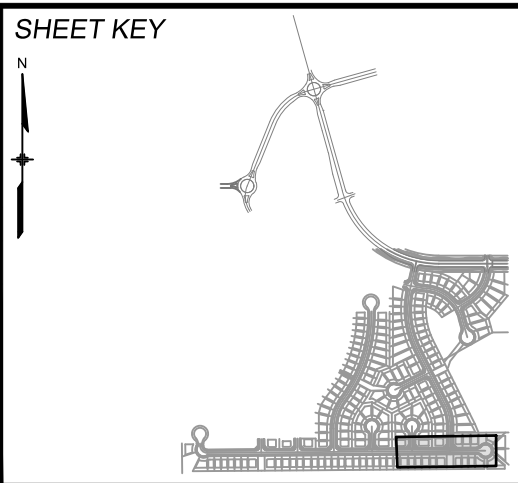
UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
28	N 5,494.09 E 13,747.74	8" PVC WATER 5828.12	18" RCP STORM 5830.12	2.00'
32	N 5,447.15 E 13,727.17	8" PVC SAN 5828.59	24" RCP STORM 5830.03	12.12
37	N 5,494.09 E 13,737.82	8" PVC SAN 5815.51	18" RCP STORM 5830.03	14.52'
49	N 5,457.28 E 13,726.12	12" PVC WATER 5826.82	24" RCP STORM 5828.82	2.00'

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
FES - 2	30" FES WITH TRASH GRATE	RIM = 5832.04 PIPE - 62 INV OUT (30") = 5829.16	N: 5302.70 E: 13539.07
INLET 7-H	10' ON-GRADE TYPE R INLET	RIM = 5835.85 PIPE - 54 INV OUT (18") = 5830.18	N: 5494.09 E: 13718.57
INLET 8-H	10' ON-GRADE TYPE R INLET	RIM = 5835.43 PIPE - 55 INV OUT (18") = 5830.41	N: 5494.09 E: 13756.91
INLET 9-H	TYPE C INLET WITH PEDESTRIAN GRATE	RIM = 5828.69 PIPE - 62 INV IN (30") = 5824.40 PIPE - 61 INV OUT (30") = 5824.10	N: 5306.92 E: 13998.54
INLET 10-H	5' SUMP TYPE R INLET	RIM = 5829.03 PIPE - 61 INV IN (30") = 5823.63 PIPE - 60 INV OUT (30") = 5823.43	N: 5400.12 E: 13998.75
MH - 26	4' TYPE II MH	RIM = 5835.21 PIPE - 52 INV IN (30") = 5828.25 PIPE - 53 INV IN (24") = 5828.75 PIPE - 56 INV OUT (30") = 5828.15	N: 5435.67 E: 13726.25
MH - 27	4' TYPE II MH	RIM = 5835.50 PIPE - 54 INV IN (18") = 5830.12 PIPE - 55 INV IN (18") = 5830.12 PIPE - 53 INV OUT (24") = 5829.62	N: 5494.09 E: 13726.24
MH - 28	6.33' X 6.33' TYPE I MH	RIM = 5828.14 PIPE - 56 INV IN (30") = 5823.22 PIPE - 60 INV IN (30") = 5823.22 PIPE - 57 INV OUT (36") = 5822.72	N: 5437.13 E: 13978.74

PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 60	S28°23'40"E	42.1'	0.50%	30" RCP
PIPE - 61	S00°07'35"W	93.2'	0.50%	30" RCP
PIPE - 53	N00°00'29"W	58.4'	1.49%	24" RCP
PIPE - 54	N90°00'00"W	7.7'	0.78%	18" RCP
PIPE - 55	N90°00'00"E	30.7'	0.95%	18" RCP
PIPE - 62	S89°28'24"W	459.5'	1.04%	30" RCP

- NOTES:
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 - PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF ALL STRUCTURES.
 - ALL PIPE BENDS ANGLES ARE MEASURED FROM THE CENTER OF PIPE.
 - CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES.
 - TOP OF BOX ELEVATIONS GIVEN FOR CDOT TYPE R INLETS REFER TO THE COUNTY STANDARD DETAIL FOR CORRESPONDING DESIGN ELEVATIONS.
 - ALL RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.
 - PIPES OF DIFFERENT SIZES ARE TO BE MATCHED TO THE CROWN OF THE INSIDE WALL OF PIPE.
 - ALL TYPE C INLETS ARE TO COLORADO DEPARTMENT OF TRANSPORTATION STANDARD TYPE M-604-10.
 - PER THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL, MANHOLES SHALL BE INSTALLED 1/8" BELOW THE SURFACE OF THE PAVEMENT ON THE LOWEST SIDE OF THE MANHOLE."

REFERENCE DRAWINGS			
No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\SD01-05.dwg			
CTB FILE: ---			
PLOT DATE: July 2, 2019 12:25:08 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			



BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX. LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2' AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4' AULM. CAP PLS 10377)

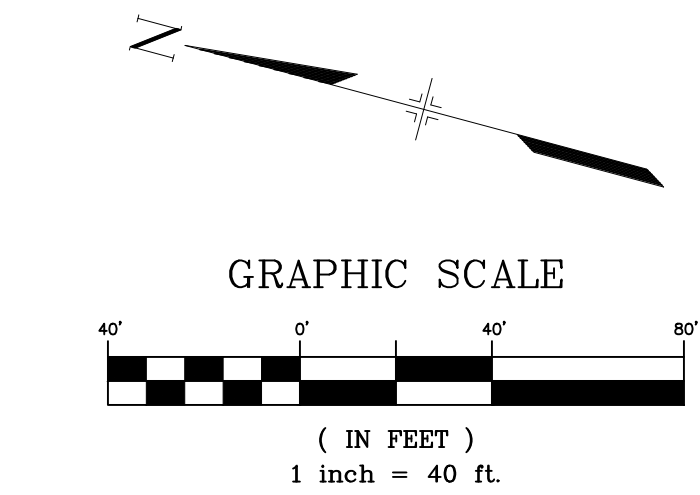
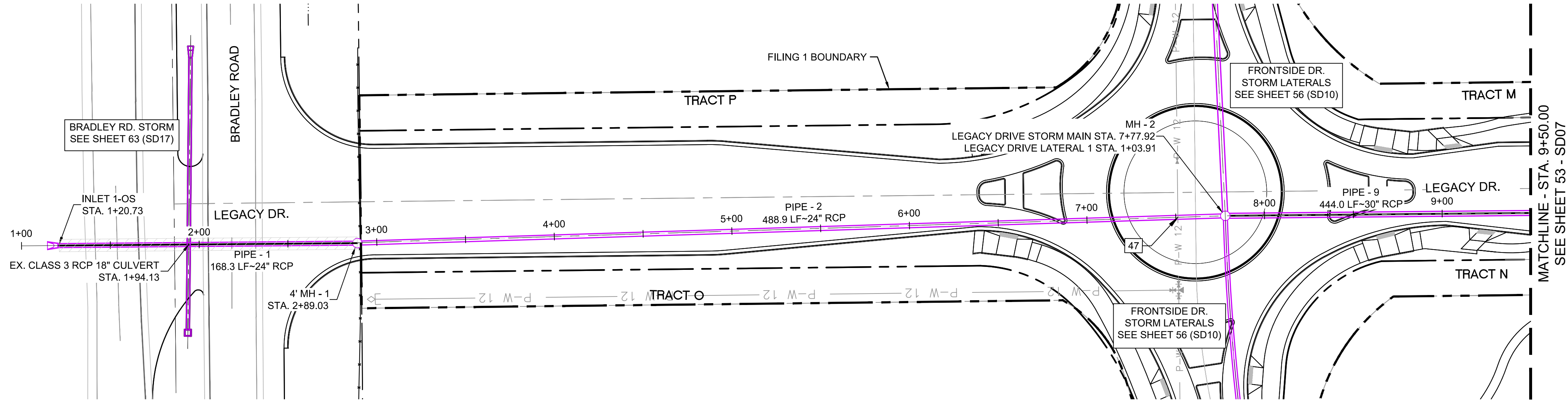


SEAL

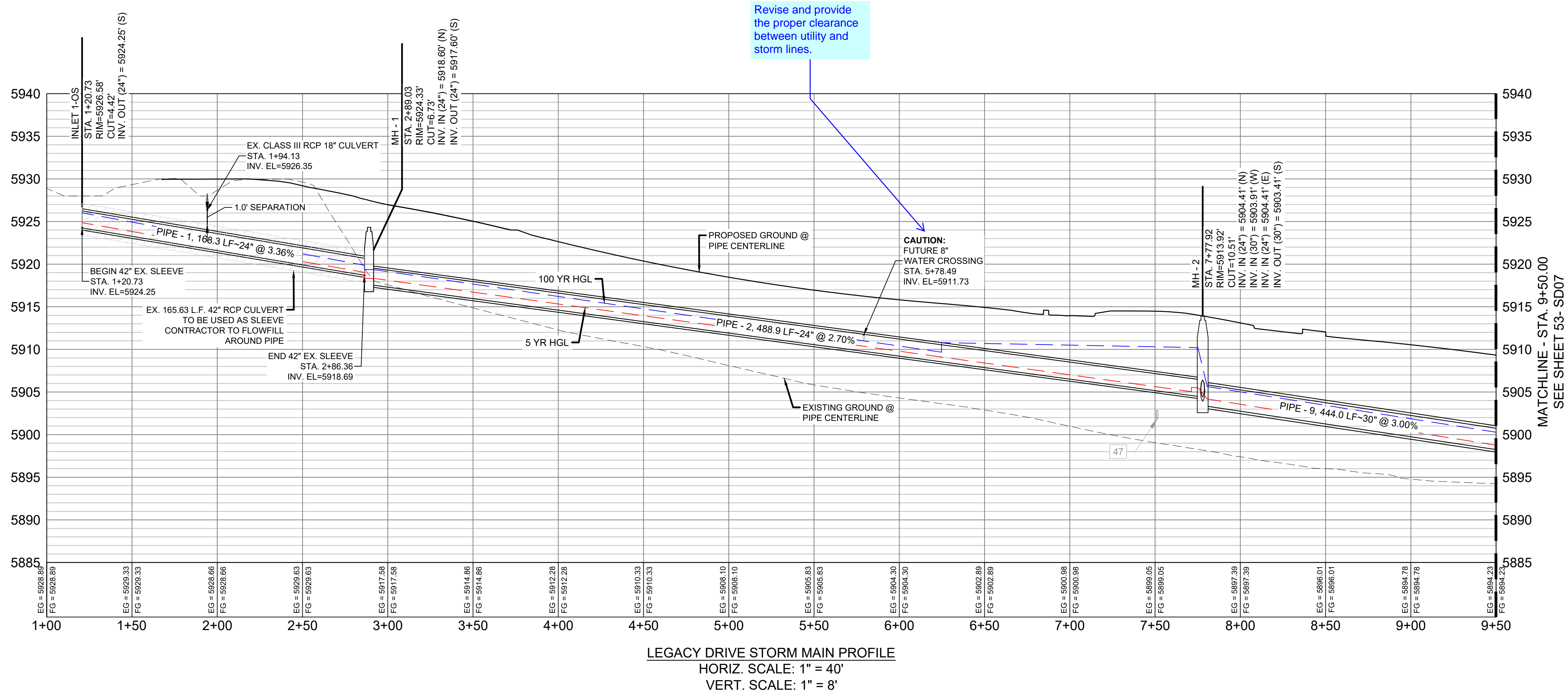
PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE				
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS				
STORM DRAIN PLAN & PROFILE				
DESIGNED BY: KMZ	SCALE: HORIZ 1" = 40'	DATE ISSUED: JULY, 2019	DRAWING No. SD05	
DRAWN BY: LCB	VERT. 1" = 8'	SHEET 51 OF 71		
CHECKED BY: NMS				



UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
47	N 8,155.02 E 12,702.00	12" PVC WATER 5736.19	24" RCP STORM 5738.19	2.00'



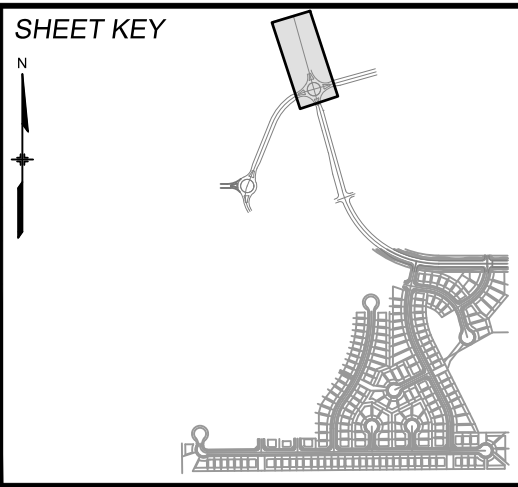
The drainage plan indicates this manhole as a 4' Type II. Revise drainage report or CD's so that they match.

PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 9	S15°32'08"E	444.0'	3.00%	30" RCP
PIPE - 1	S15°28'07"E	168.3'	3.36%	24" RCP
PIPE - 2	S16°48'16"E	488.9'	2.70%	24" RCP

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
INLET 1-OS	24" FES	RIM = 5926.58 PIPE - 1 INV OUT (24") = 5924.25	N: 8759.66 E: 12523.50
MH - 1	4' TYPE II 1' DROP MH	RIM = 5924.33 PIPE - 1 INV IN (24") = 5918.60 PIPE - 2 INV OUT (24") = 5917.60	N: 8597.45 E: 12568.39
MH - 2	6.33' X 6.33' TYPE I MH	RIM = 5913.92 PIPE - 2 INV IN (24") = 5904.41 PIPE - 3 INV IN (30") = 5903.91 PIPE - 6 INV IN (24") = 5904.41 PIPE - 9 INV OUT (30") = 5903.41	N: 8129.44 E: 12709.73

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 - ALL PIPE BENDS ANGLES ARE MEASURED FROM THE CENTER OF PIPE.
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 - TOP OF BOX ELEVATIONS GIVEN FOR CDOT TYPE R INLETS REFER TO THE COUNTY STANDARD DETAIL FOR CORRESPONDING DESIGN ELEVATIONS.
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 - ALL TYPE C INLETS ARE TO COLORADO DEPARTMENT OF TRANSPORTATION STANDARD TYPE M-604-10.
 - PER THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL, MANHOLES SHALL BE INSTALLED 1/8" BELOW THE SURFACE OF THE PAVEMENT ON THE LOWEST SIDE OF THE MANHOLE.

REFERENCE DRAWINGS			
No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\SD06-07.dwg			
CTB FILE: ----			
PLOT DATE: July 2, 2019 12:28:01 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			



BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX. LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4" AULM. CAP PLS 10377)



SEAL

PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE				
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS				
STORM DRAIN PLAN & PROFILE				
DESIGNED BY:	KMZ	SCALE	DATE ISSUED:	JULY, 2019
DRAWN BY:	LCB	HORIZ 1" = 40'		
CHECKED BY:	NMS	VERT. 1" = 8'	SHEET	52 OF 71
				DRAWING No. SD06

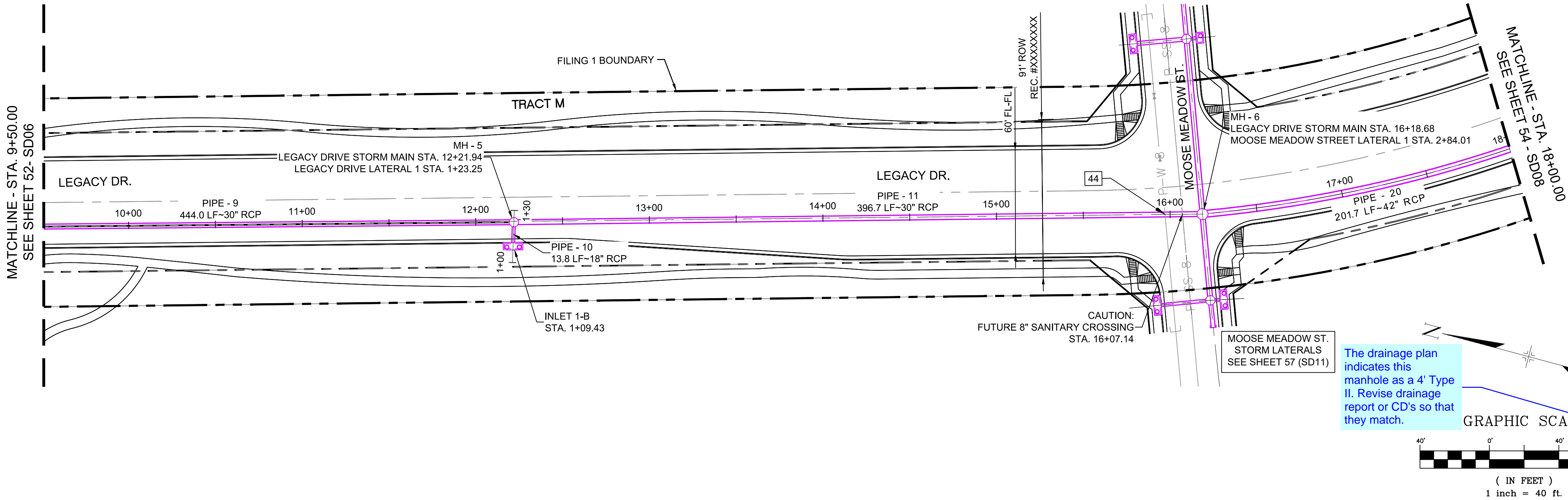


UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
44	N 7,340.43 E 12,930.04	8" PVC WATER 5733.39	30" RCP STORM 5735.39	2.00'
29	N 5,438.39 E 12,592.15	8" PVC SAN 5852.77	24" RCP STORM 5864.27	11.50'

PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 10	S76°57'39"W	13.8'	2.00%	18" RCP
PIPE - 9	S15°32'08"E	444.0'	3.00%	30" RCP
PIPE - 11	S15°40'40"E	396.7'	3.00%	30" RCP

PIPE TABLE					
PIPE NAME	RADIUS	CHORD LENGTH	LENGTH	SLOPE	SIZE
PIPE - 20	772.34'	201.10'	201.68'	3.000%	42" RCP

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
INLET 1-B	10' ON-GRADE TYPE R INLET	RIM = 5900.60 PIPE - 10 INV OUT (18") = 5891.37	N: 7698.52 E: 12815.19
MH - 5	6.33' X 6.33' TYPE I MH	RIM = 5900.42 PIPE - 9 INV IN (30") = 5890.09 PIPE - 10 INV IN (18") = 5891.09 PIPE - 11 INV OUT (30") = 5889.09	N: 7701.64 E: 12828.66
MH - 6	6.33' X 6.33' TYPE I 1' DROP MH	RIM = 5886.63 PIPE - 11 INV IN (30") = 5877.18 PIPE - 12 INV IN (30") = 5877.18 PIPE - 16 INV IN (30") = 5877.18 PIPE - 20 INV OUT (42") = 5876.18	N: 7319.66 E: 12935.87

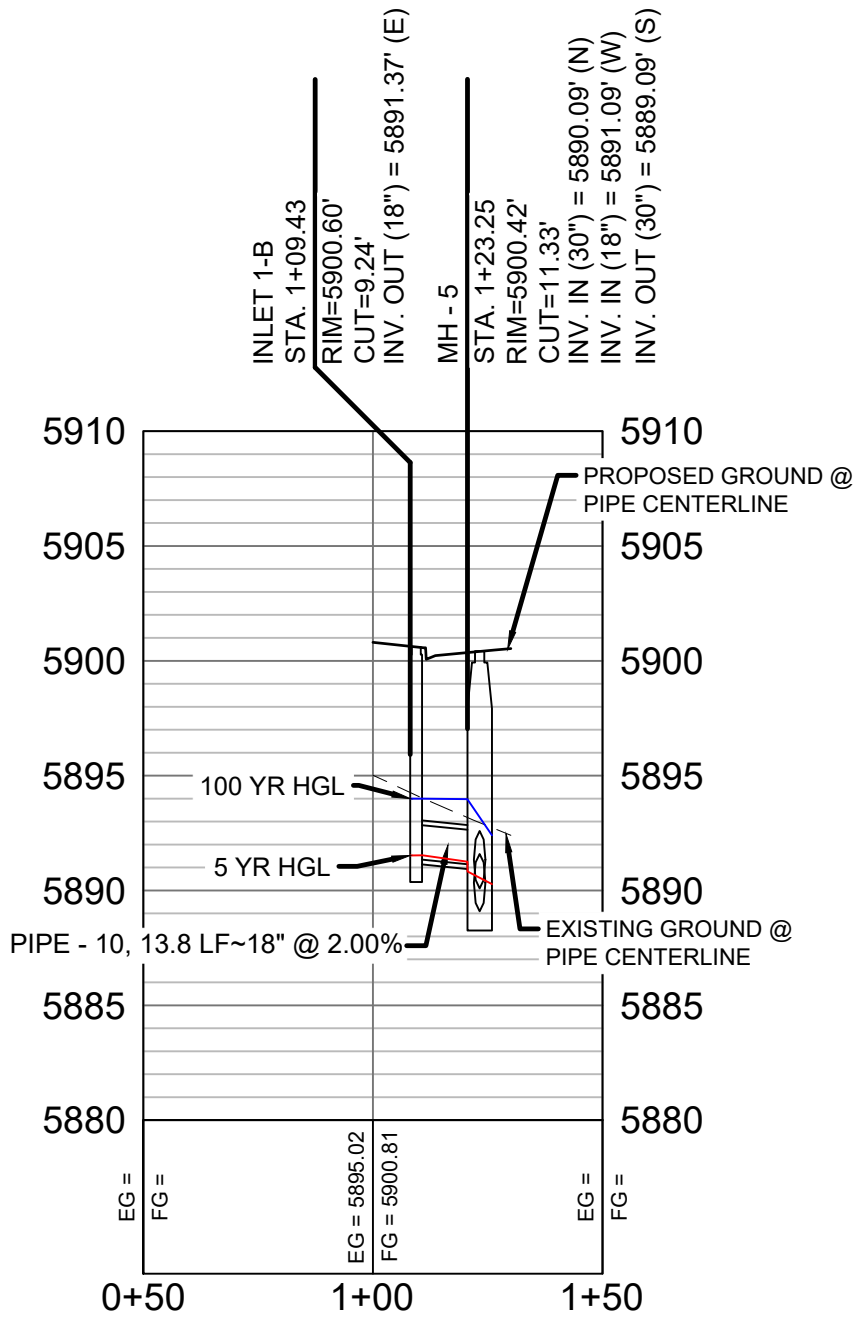
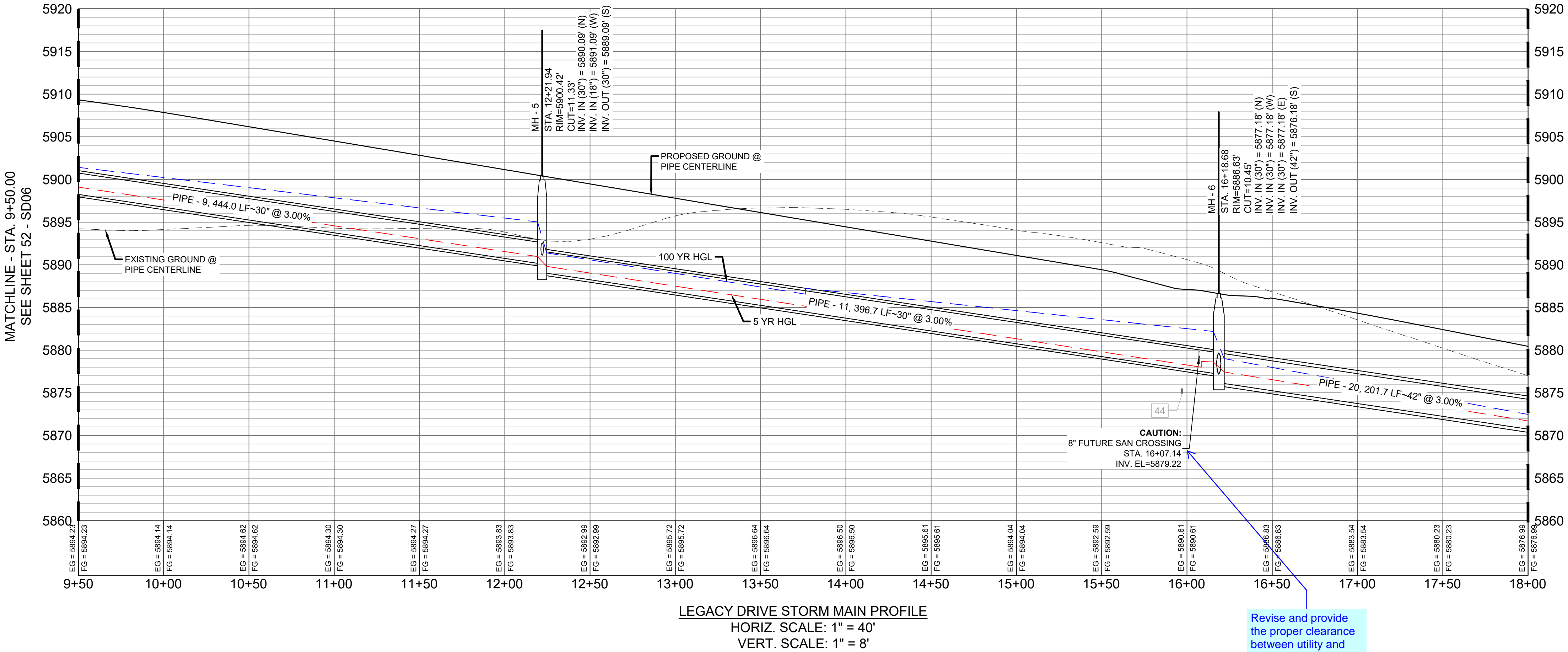


The drainage plan indicates this manhole as a 4' Type II. Revise drainage report or CD's so that they match.

GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.

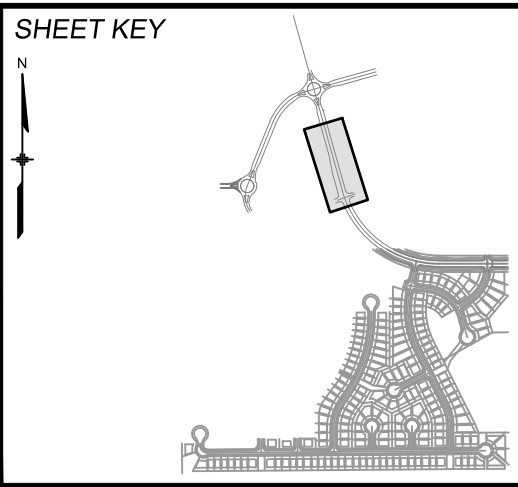


LEGACY DRIVE LATERAL 1 PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'

- NOTES:
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 2. PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF ALL STRUCTURES.
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 8. ALL TYPE C INLETS ARE TO COLORADO DEPARTMENT OF TRANSPORTATION STANDARD TYPE M-604-10.
 9. PER THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL, MANHOLES SHALL BE INSTALLED 1/8" BELOW THE SURFACE OF THE PAVEMENT ON THE LOWEST SIDE OF THE MANHOLE."

Revise and provide the proper clearance between utility and storm lines.

REFERENCE DRAWINGS			
No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\SD06-07.dwg			
CTB FILE: ----			
PLOT DATE: July 2, 2019 12:28:35 PM			
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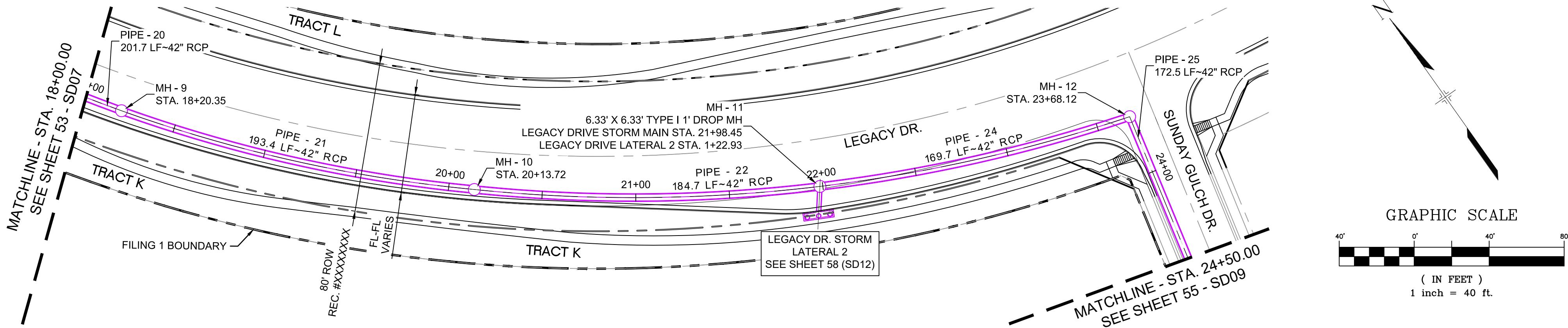
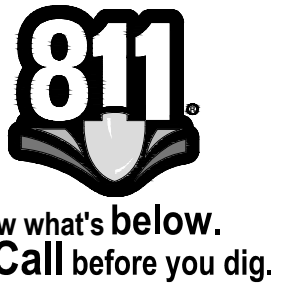
BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX. LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2' AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4' AULM. CAP PLS 10377)



SEAL			
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FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 19.886.011			

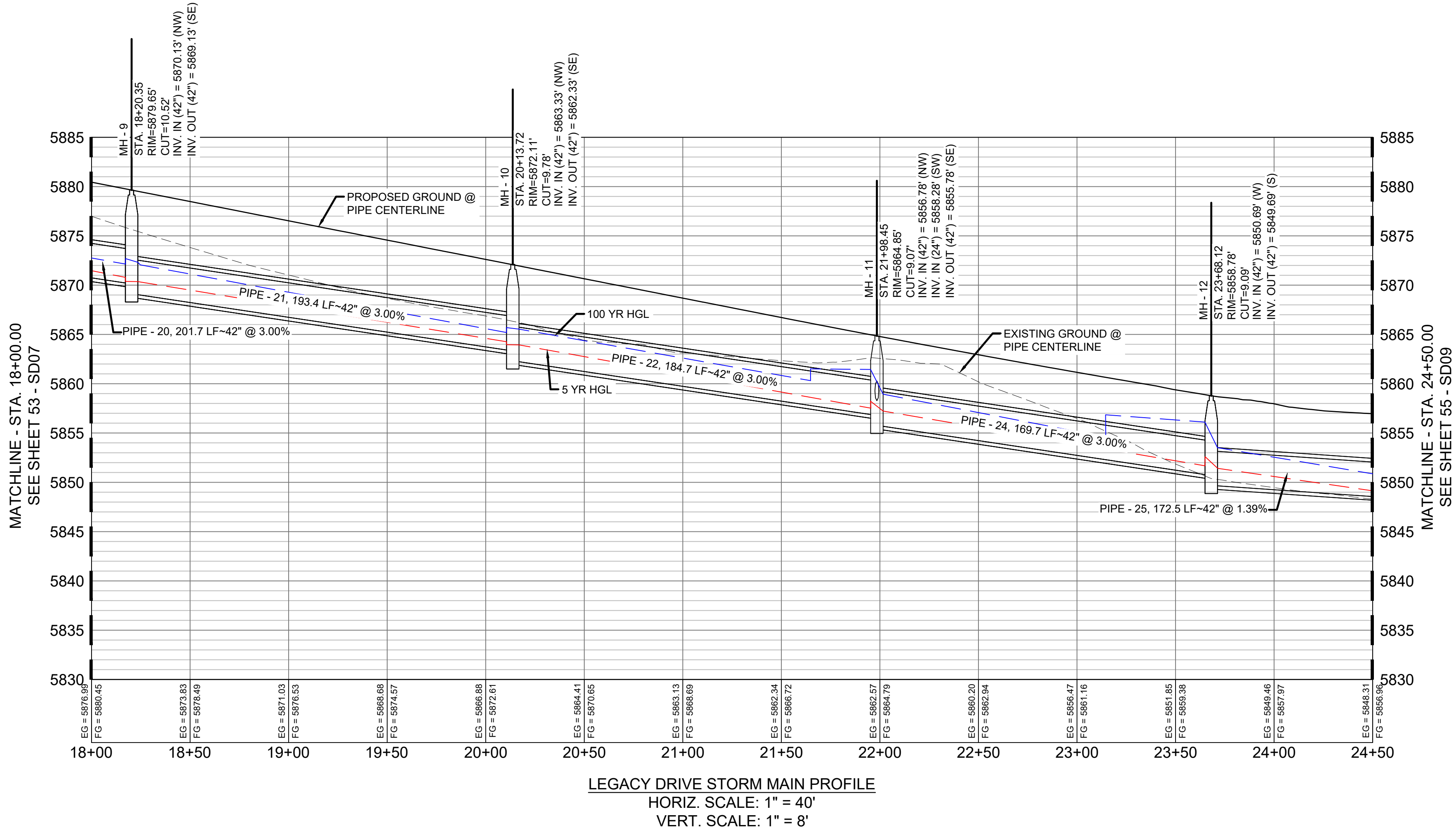
TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS			
STORM DRAIN PLAN & PROFILE			
DESIGNED BY: KMB	SCALE: 1" = 40'	DATE ISSUED: JULY, 2019	DRAWING No. SD07
DRAWN BY: LCB	HORIZ. 1" = 40'		
CHECKED BY: NMS	VERT. 1" = 8'	SHEET 53 OF 71	



STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
MH - 9	6.33' X 6.33' TYPE I 1' DROP MH	RIM = 5879.65 PIPE - 20 INV IN (42") = 5870.13 PIPE - 21 INV OUT (42") = 5869.13	N: 7141.68 E: 13029.49
MH - 10	6.33' X 6.33' TYPE I 1' DROP MH	RIM = 5872.11 PIPE - 21 INV IN (42") = 5863.33 PIPE - 22 INV OUT (42") = 5862.33	N: 6999.25 E: 13159.53
MH - 11	6.33' X 6.33' TYPE I 1' DROP MH	RIM = 5864.85 PIPE - 22 INV IN (42") = 5856.78 PIPE - 23 INV IN (24") = 5858.28 PIPE - 24 INV OUT (42") = 5855.78	N: 6894.86 E: 13311.48
MH - 12	6.33' X 6.33' TYPE I 1' DROP MH	RIM = 5858.78 PIPE - 24 INV IN (42") = 5850.69 PIPE - 25 INV OUT (42") = 5849.69	N: 6830.62 E: 13468.19

PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 20	S27°44'40"E	201.7'	3.00%	42" RCP
PIPE - 25	S12°35'09"W	172.5'	1.39%	42" RCP

PIPE TABLE					
PIPE NAME	RADIUS	CHORD LENGTH	LENGTH	SLOPE	SIZE
PIPE - 22	832.43'	184.35'	184.73'	3.004%	42" RCP
PIPE - 24	832.43'	169.37'	169.67'	3.000%	42" RCP
PIPE - 21	772.34'	192.86'	193.37'	2.999%	42" RCP



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REFERENCE DRAWINGS

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\SD08-09.dwg			
CTB FILE: ----			
PLOT DATE: July 2, 2019 12:31:58 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

SHEET KEY

BENCHMARK

COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING

BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4" AULM. CAP PLS 10377)

SEAL

PRELIMINARY
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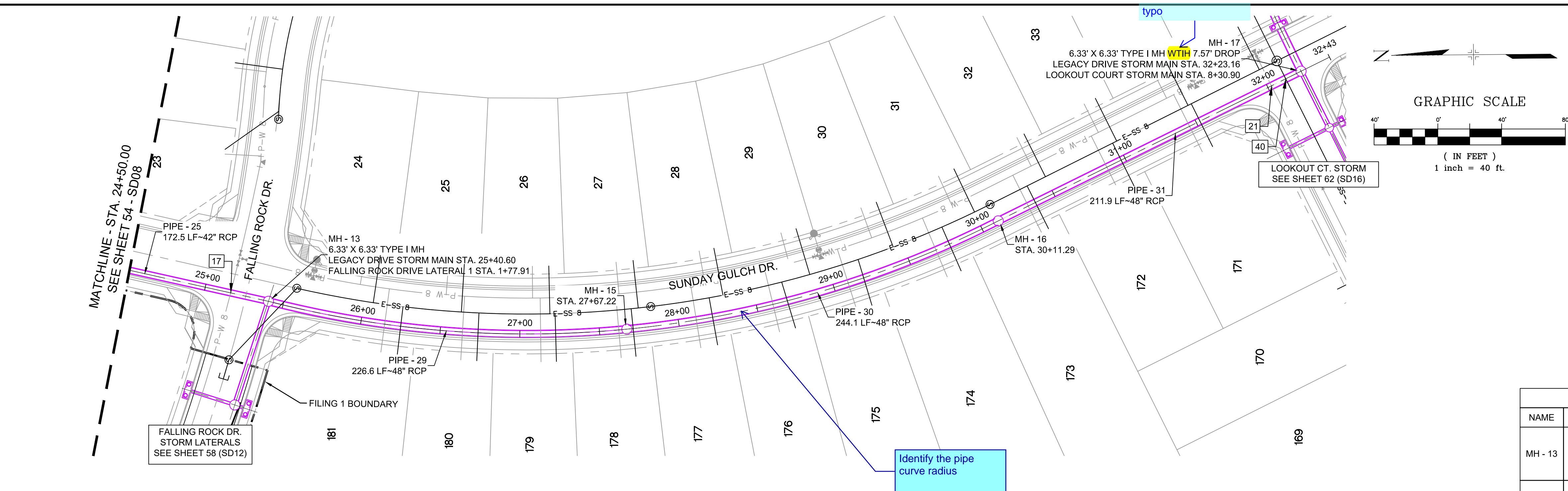
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

STORM DRAIN PLAN & PROFILE

DESIGNED BY:	KMZ	SCALE	DATE ISSUED:	JULY, 2019	DRAWING No.
DRAWN BY:	LCB	HORIZ 1" = 40'			
CHECKED BY:	NMS	VERT. 1" = 8'	SHEET	54 OF 71	SD08

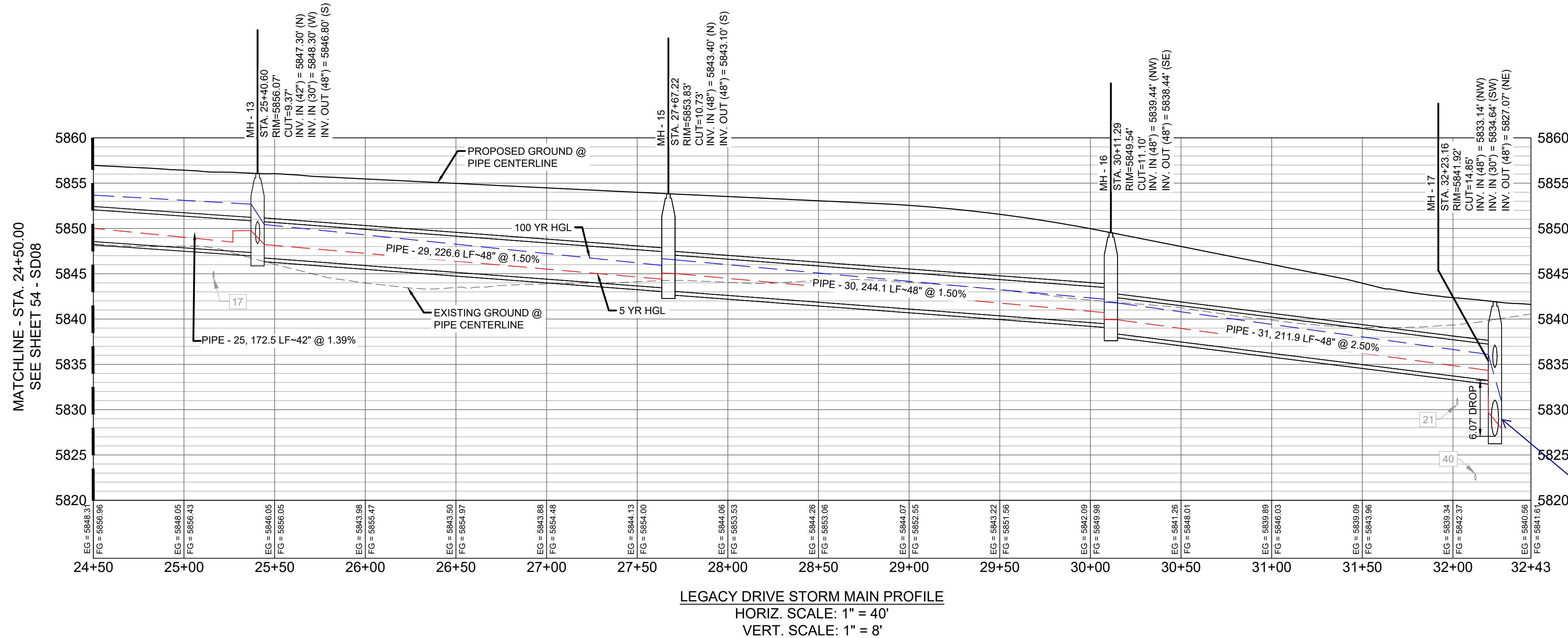
Know what's below.
Call before you dig.

UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
17	N 6,685.98 E 13,435.90	8" PVC WATER 5845.27	42" RCP STORM 5847.27	2.00'
21	N 6,033.19 E 13,565.70	8" PVC WATER 5831.26	48" RCP STORM 5833.26	2.00'
40	N 6,024.19 E 13,570.18	8" PVC SAN 5822.92	48" RCP STORM 5832.99	10.07'

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
MH - 13	6.33' X 6.33' TYPE I MH	RIM = 5856.07 PIPE - 25 INV IN (42") = 5847.30 PIPE - 26 INV IN (30") = 5848.30 PIPE - 29 INV OUT (48") = 5846.80	N: 6662.28 E: 13430.61
MH - 15	6.33' X 6.33' TYPE I MH	RIM = 5853.83 PIPE - 29 INV IN (48") = 5843.40 PIPE - 30 INV OUT (48") = 5843.10	N: 6437.47 E: 13413.13
MH - 16	6.33' X 6.33' TYPE I 1' DROP MH	RIM = 5849.54 PIPE - 30 INV IN (48") = 5839.44 PIPE - 31 INV OUT (48") = 5838.44	N: 6204.53 E: 13481.04
MH - 17	6.33' X 6.33' TYPE I MH WITH 7.57' DROP	RIM = 5841.92 PIPE - 31 INV IN (48") = 5833.14 PIPE - 34 INV IN (30") = 5834.64 PIPE - 32 INV OUT (48") = 5827.07	N: 6014.58 E: 13574.89

PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 25	S12°35'09"W	172.5'	1.39%	42" RCP
PIPE - 31	S26°17'39"E	211.9'	2.50%	48" RCP

PIPE TABLE				
PIPE NAME	RADIUS	CHORD LENGTH	LENGTH	SIZE
PIPE - 29	651.52'	225.49'	226.63'	1.500% 48" RCP
PIPE - 30	644.02'	242.64'	244.10'	1.500% 48" RCP

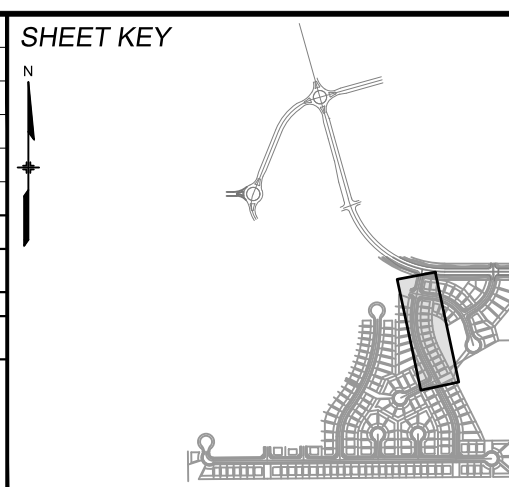


Deviation request noted providing additional concrete strength and scour protection for the drop manhole. Identify the requirements on the plans.

NOTES:

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- ALL TYPE C INLETS ARE TO COLORADO DEPARTMENT OF TRANSPORTATION STANDARD TYPE M-604-10.
- PER THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL, MANHOLES SHALL BE INSTALLED 1/8" BELOW THE SURFACE OF THE PAVEMENT ON THE LOWEST SIDE OF THE MANHOLE."

REFERENCE DRAWINGS			
No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\SD08-09.dwg			
CTB FILE: ---			
PLOT DATE: July 2, 2019 12:32:26 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			



BENCHMARK

COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX. LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING

BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2' AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4' AULM. CAP PLS 10377)

PREPARED BY:



SEAL

PRELIMINARY

THIS DRAWING HAS NOT
BEEN APPROVED BY
GOVERNING AGENCIES AND
IS SUBJECT TO CHANGE

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

DESIGNED BY: KMZ
DRAWN BY: LCB
CHECKED BY: NMS

SCALE
HORIZ 1" = 40'
VERT. 1" = 8'

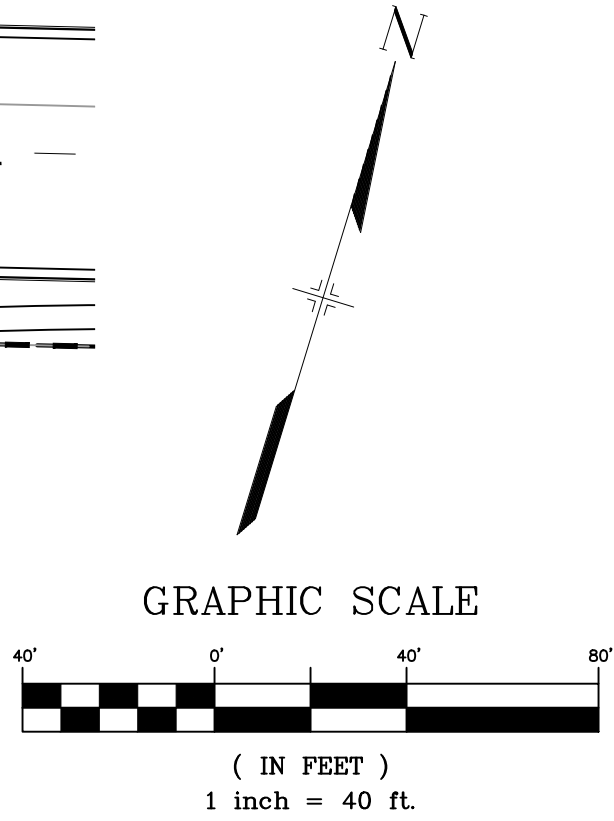
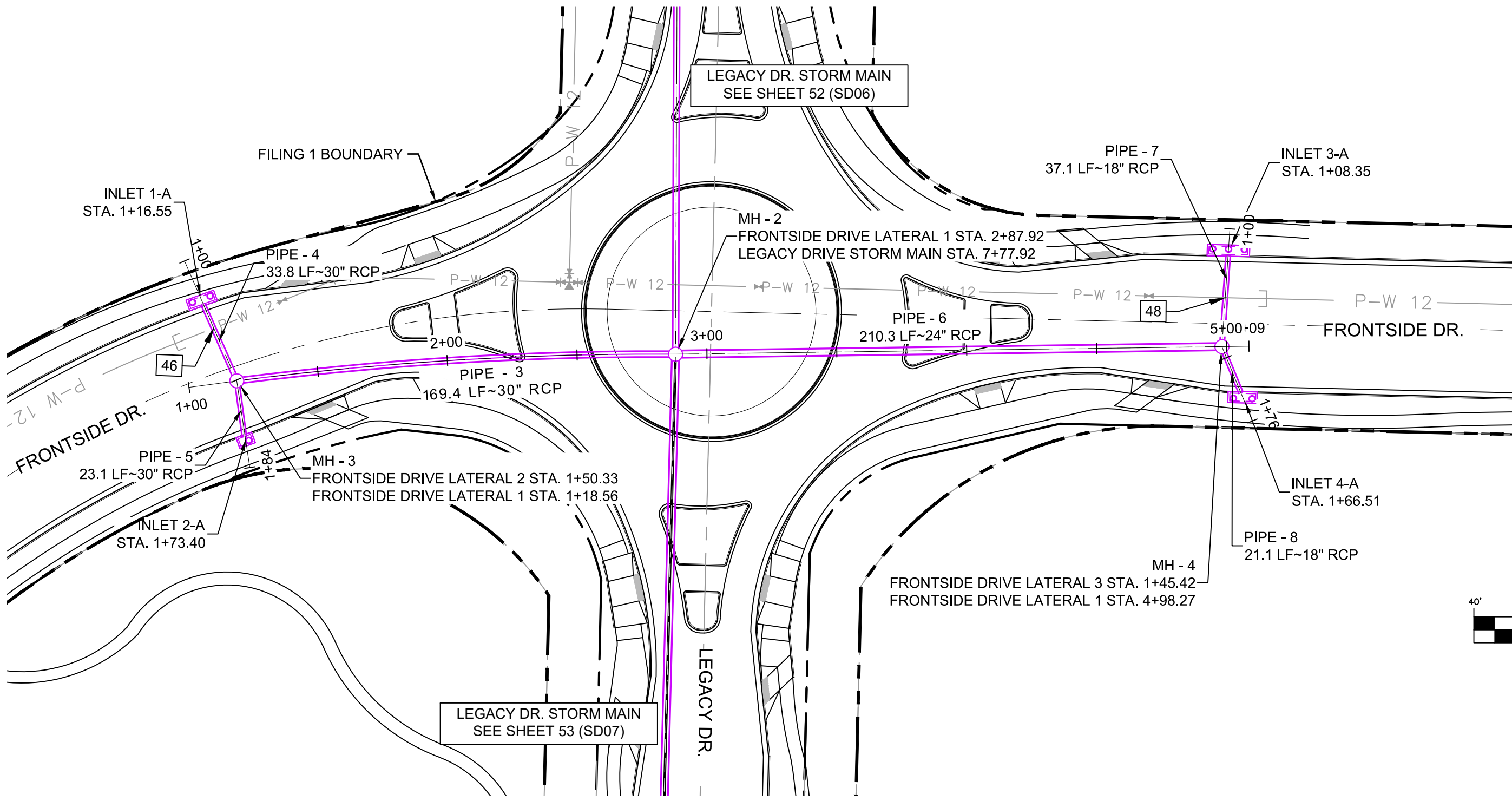
DATE ISSUED: JULY, 2019
SHEET 55 OF 71

DRAWING No. SD09

TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

STORM DRAIN PLAN & PROFILE

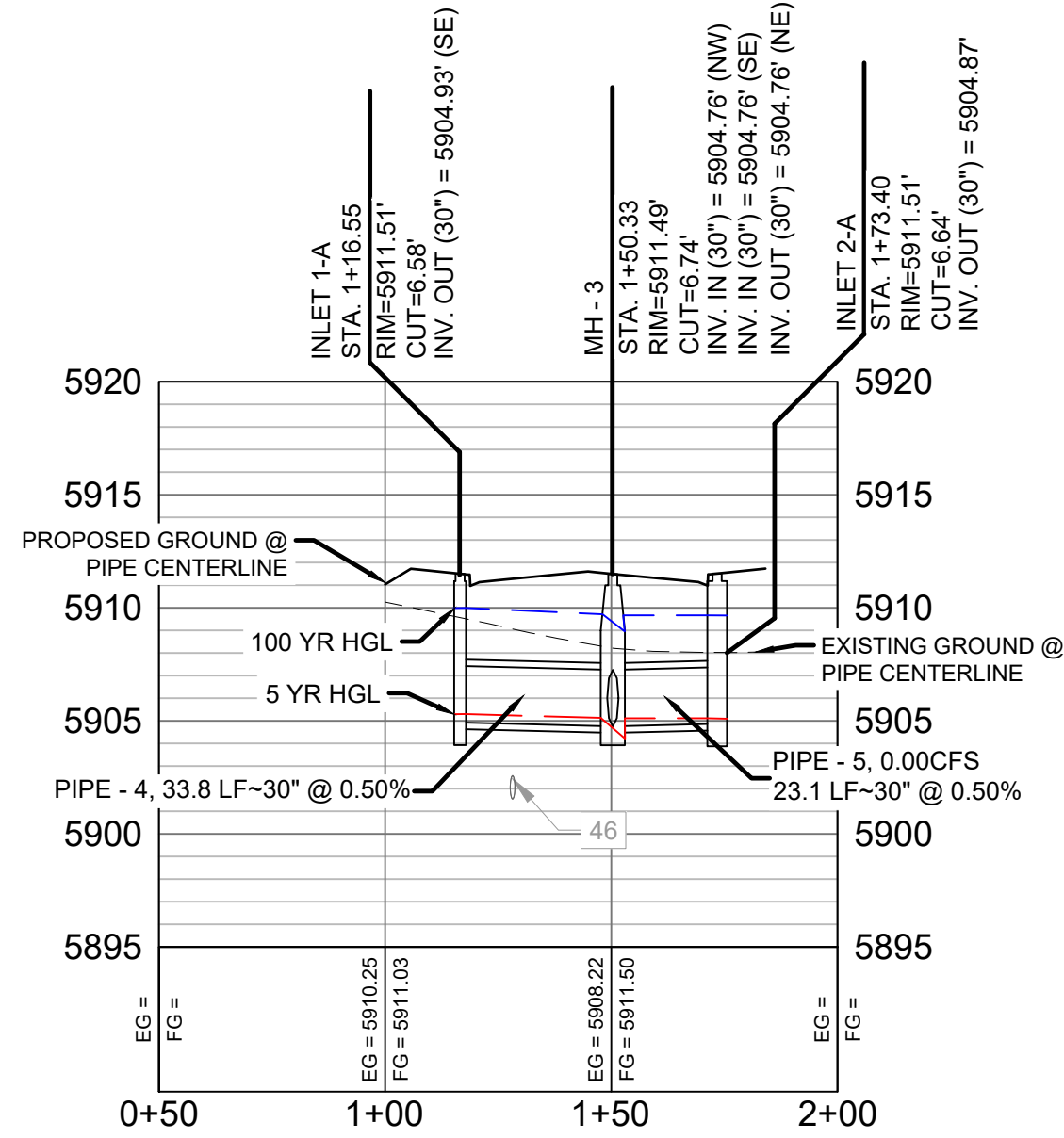


The drainage plan indicates this manhole as a 4' Type II. Revise drainage report or CD's so that they match.

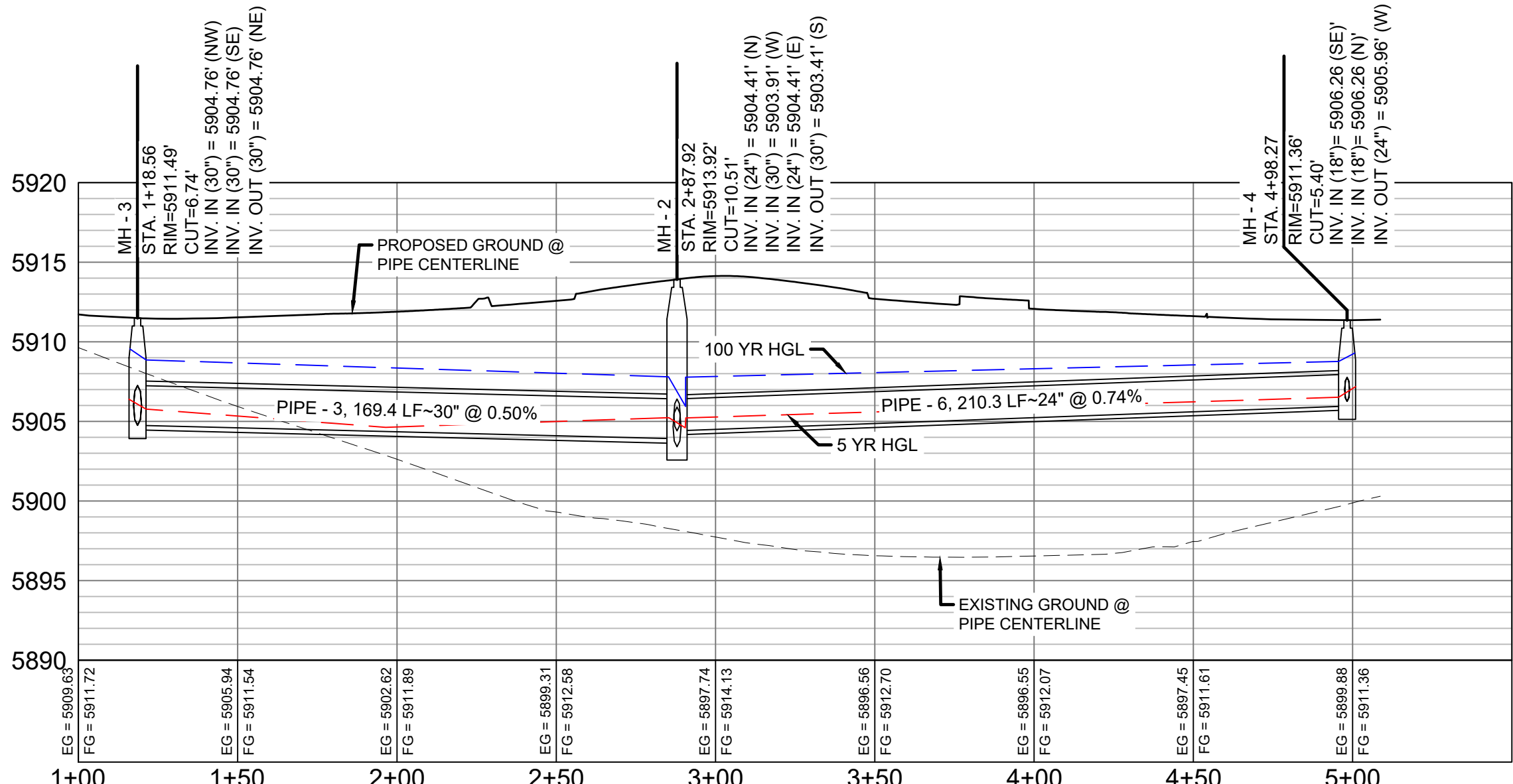
STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
INLET 1-A	10' SUMP TYPE R INLET	RIM = 5911.51 PIPE - 4 INV OUT (30") = 5904.93	N: 8095.89 E: 12529.23
INLET 2-A	5' SUMP TYPE R INLET	RIM = 5911.51 PIPE - 5 INV OUT (30") = 5904.87	N: 8049.42 E: 12561.15
INLET 3-A	5' SUMP TYPE R INLET	RIM = 5911.45 PIPE - 7 INV OUT (18") = 5906.45	N: 8229.83 E: 12901.61
INLET 4-A	5' SUMP TYPE R INLET	RIM = 5911.37 PIPE - 8 INV OUT (18") = 5906.37	N: 8177.41 E: 12923.39
MH - 2	6.33' X 6.33' TYPE I MH	RIM = 5913.92 PIPE - 2 INV IN (24") = 5904.41 PIPE - 3 INV IN (30") = 5903.91 PIPE - 6 INV IN (24") = 5904.41 PIPE - 9 INV OUT (30") = 5903.41	N: 8129.44 E: 12709.73
MH - 3	4' TYPE II MH	RIM = 5911.49 PIPE - 4 INV IN (30") = 5904.76 PIPE - 5 INV IN (30") = 5904.76 PIPE - 3 INV OUT (30") = 5904.76	N: 8070.24 E: 12551.19
MH - 4	4' TYPE II MH	RIM = 5911.36 PIPE - 8 INV IN (18") = 5906.26 PIPE - 7 INV IN (18") = 5906.26 PIPE - 6 INV OUT (24") = 5905.96	N: 8193.72 E: 12910.02

PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 3	S69°31'23"W	169.4'	0.50%	30" RCP
PIPE - 4	N40°33'21"W	33.8'	0.50%	30" RCP
PIPE - 5	S25°33'54"E	23.1'	0.50%	30" RCP
PIPE - 6	N72°12'21"E	210.3'	0.74%	24" RCP
PIPE - 8	S39°20'17"E	21.1'	0.50%	18" RCP
PIPE - 7	N13°06'38"W	37.1'	0.50%	18" RCP

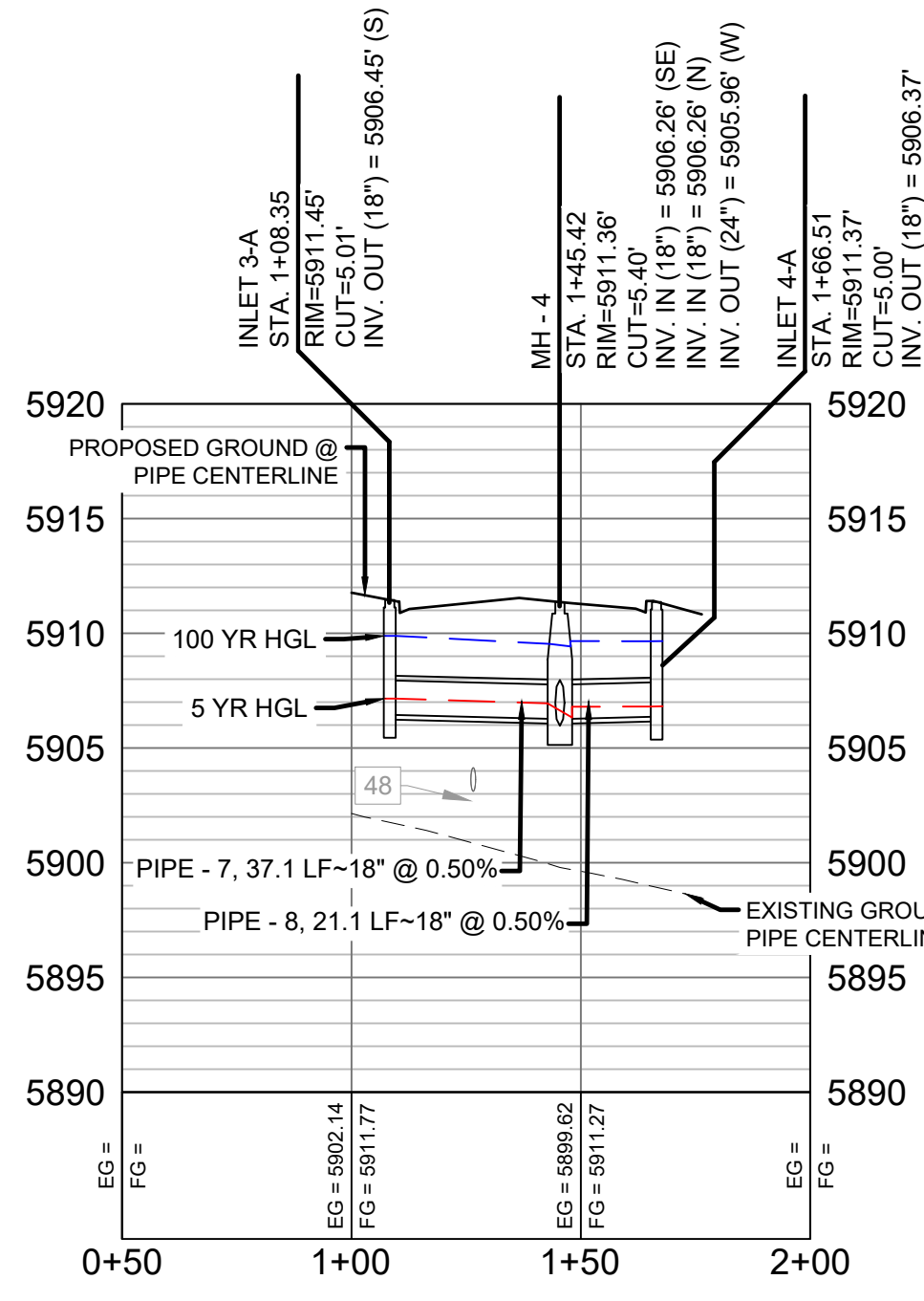
UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
46	N 8,087.07 E 12,536.78	12" PVC WATER 5735.88	30" RCP STORM 5737.88	2.00'
48	N 8,212.11 E 12,905.73	12" PVC WATER 5737.45	18" RCP STORM 5739.45	2.00'



FRONTSIDE DRIVE LATERAL 2 PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'



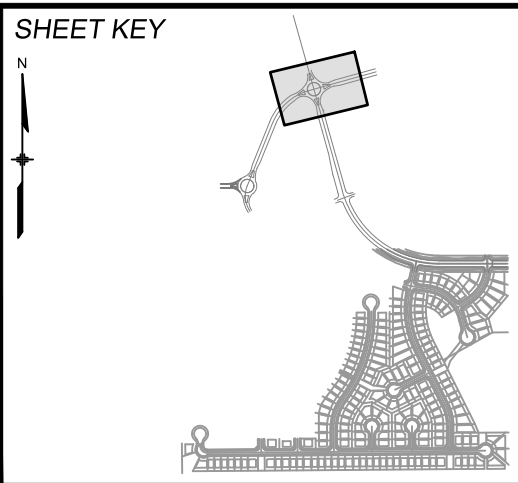
FRONTSIDE DRIVE LATERAL 1 PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'



FRONTSIDE DRIVE LATERAL 3 PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'

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REFERENCE DRAWINGS			
No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\SD10-11.dwg			
CTB FILE: ----			
PLOT DATE: July 2, 2019 12:35:55 PM			
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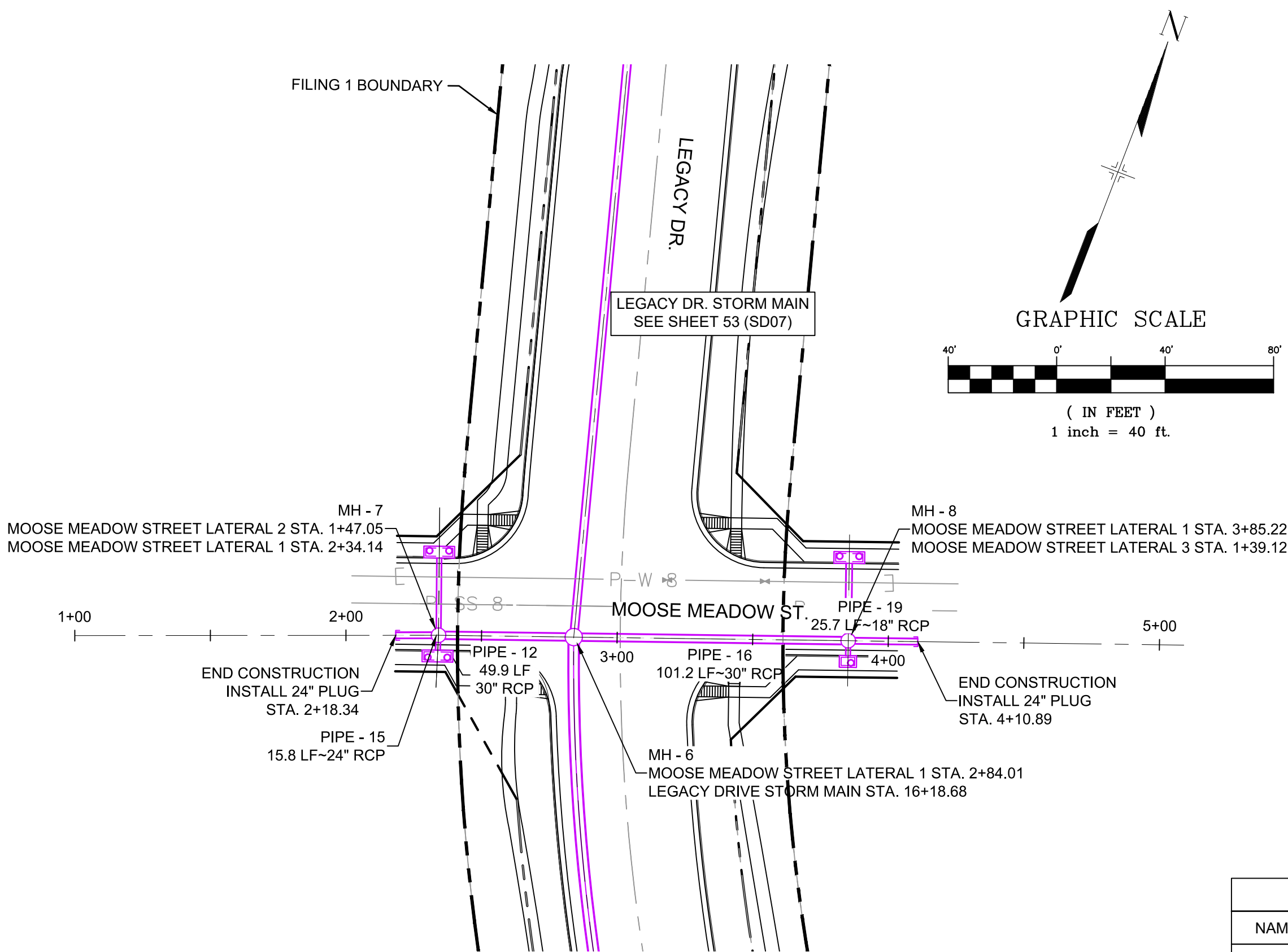
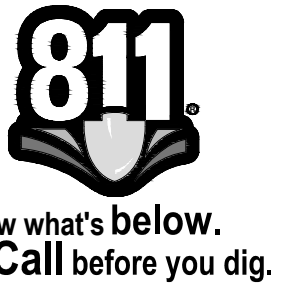
BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX. LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2' AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4' AULM. CAP PLS 10377)



SEAL			
PRELIMINARY THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE			
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 19.886.011			

TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS			
STORM DRAIN PLAN & PROFILE			
DESIGNED BY: KMZ	SCALE: 1" = 40'	DATE ISSUED: JULY, 2019	DRAWING No. SD10
CHECKED BY: NMS	VERT. 1" = 8'	SHEET 56 OF 71	

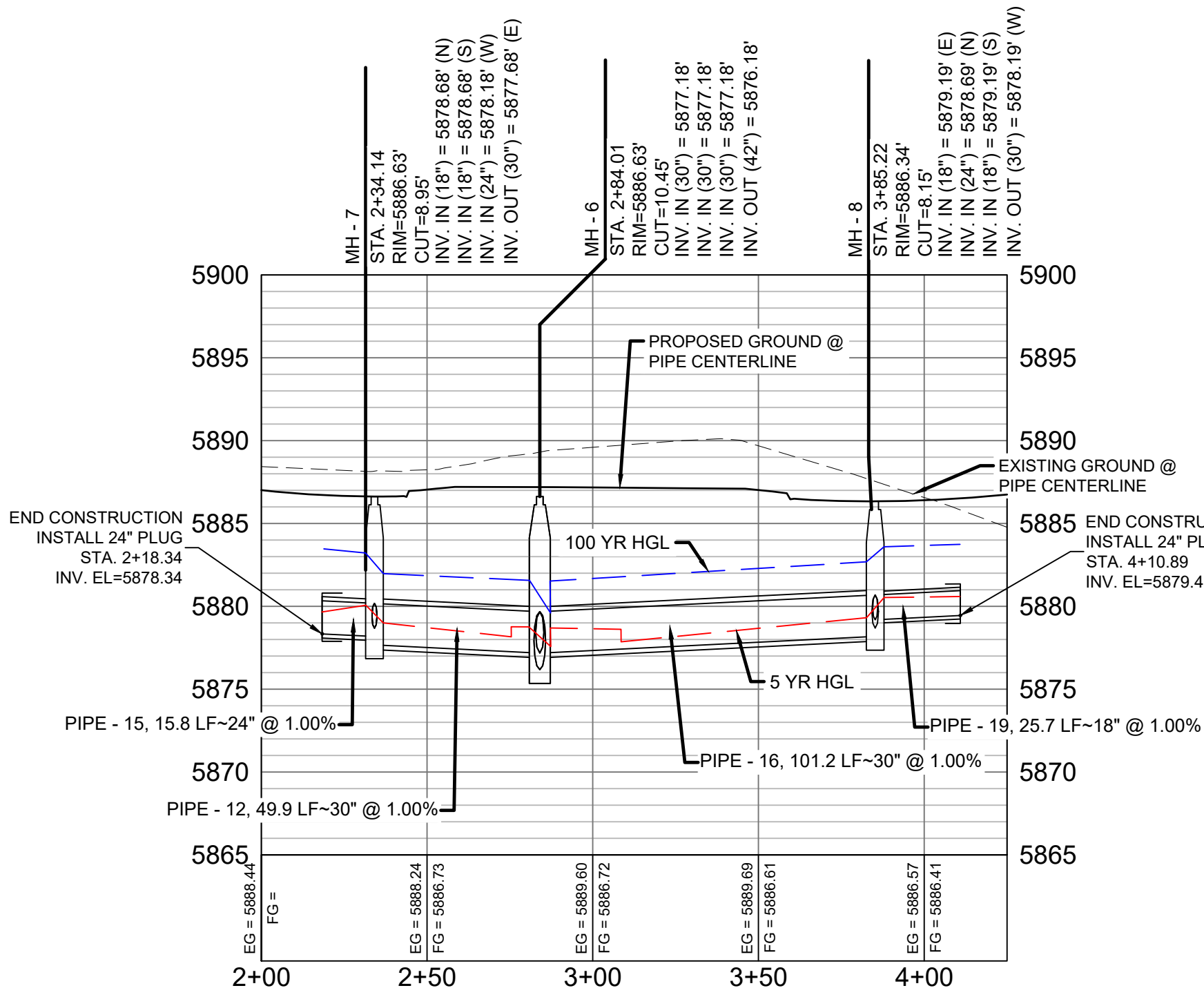
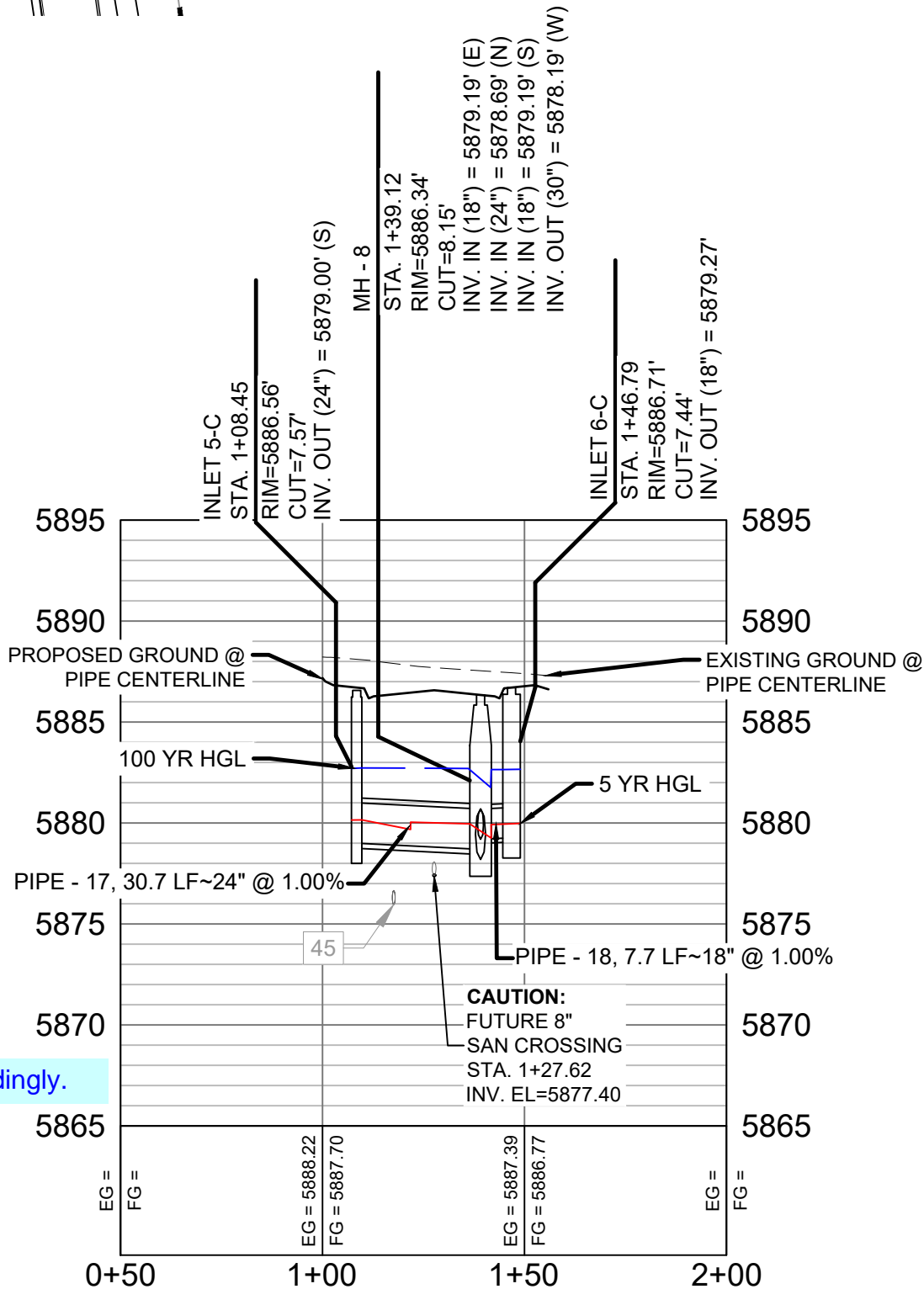
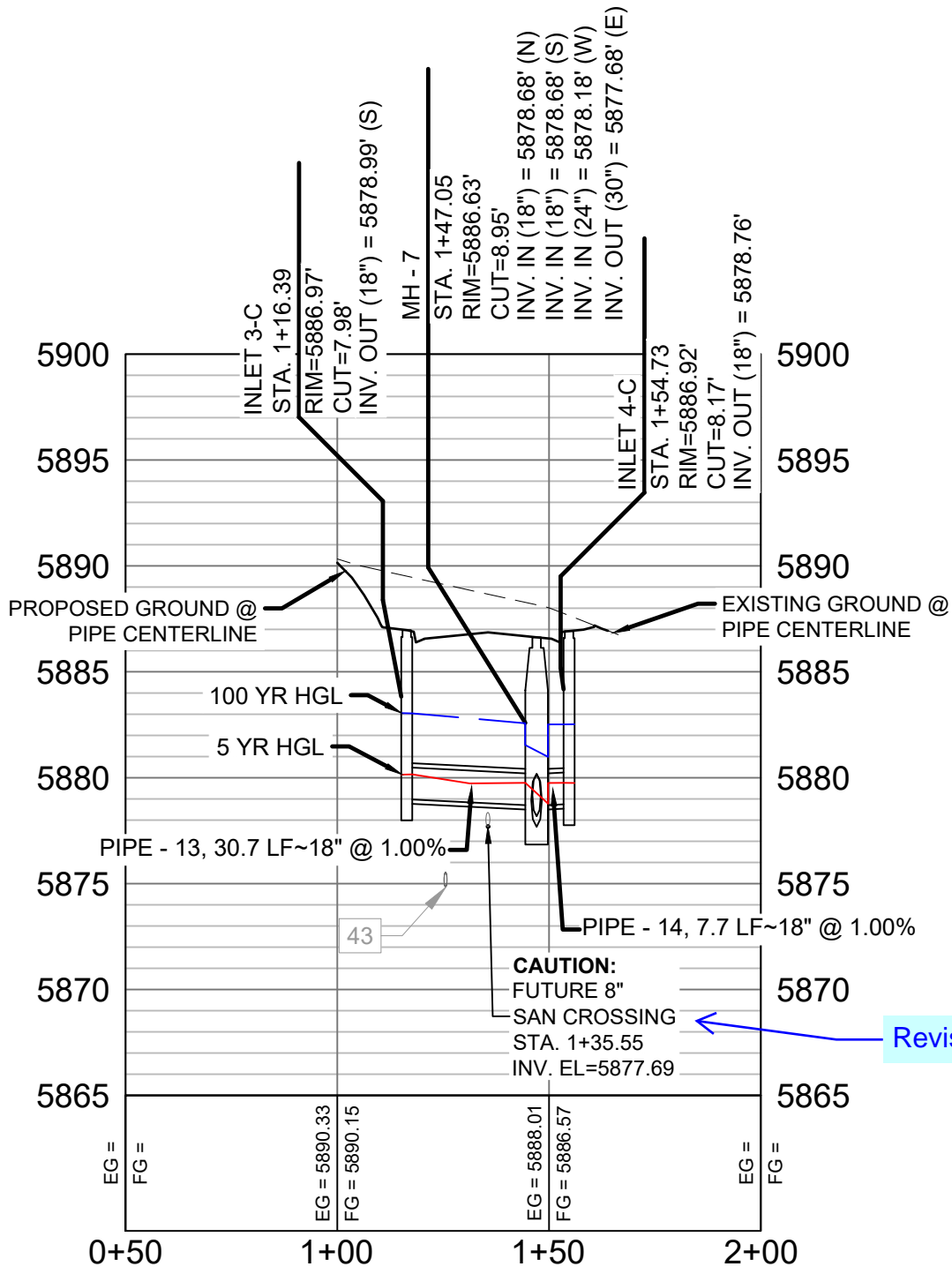
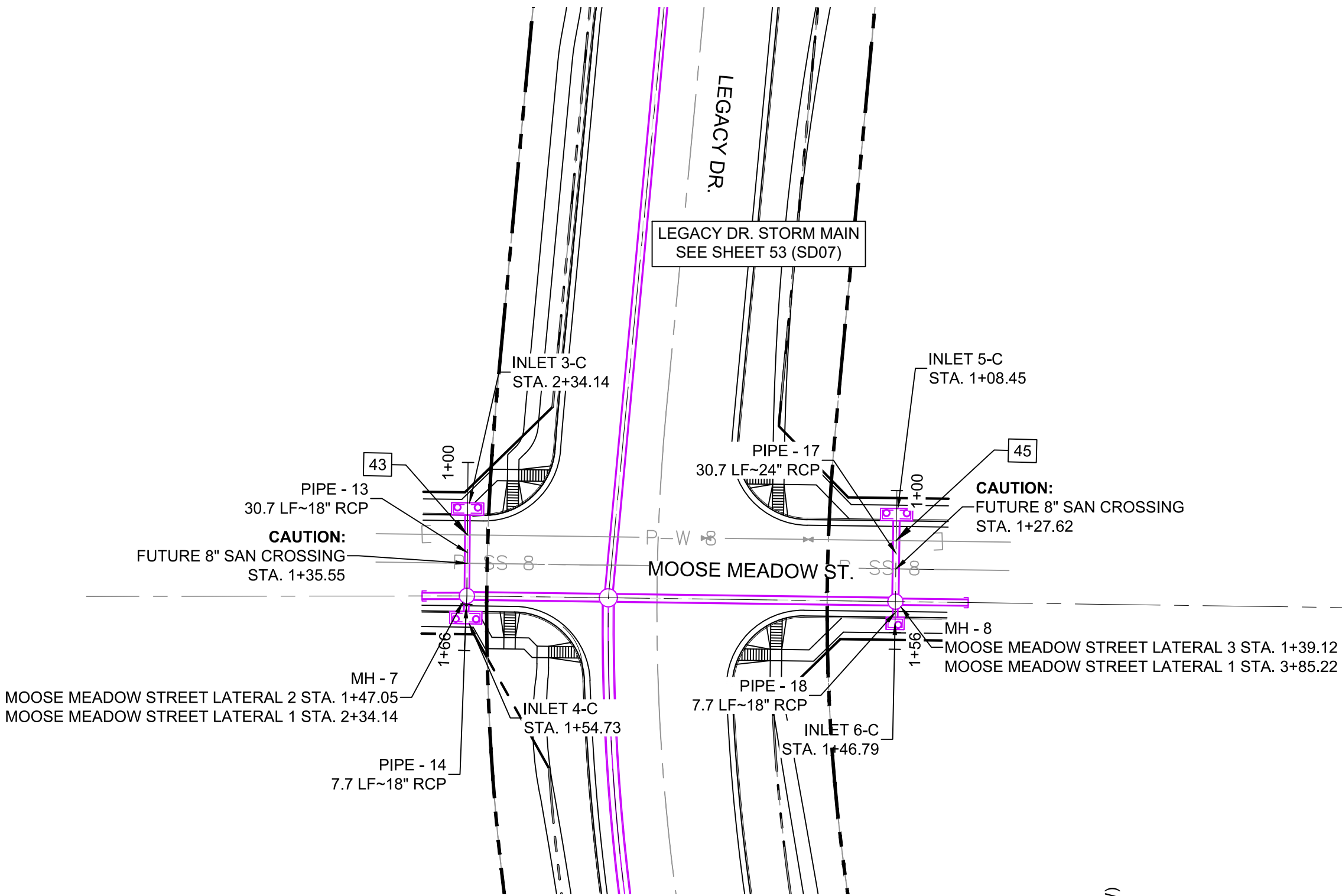


UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
43	N 7,322.55	8" PVC WATER	18" RCP STORM	3.15'
	E 12,881.54	5733.39	5736.54	
45	N 7,374.85	8" PVC WATER	24" RCP STORM	2.00'
	E 13,023.39	5734.51	5736.51	

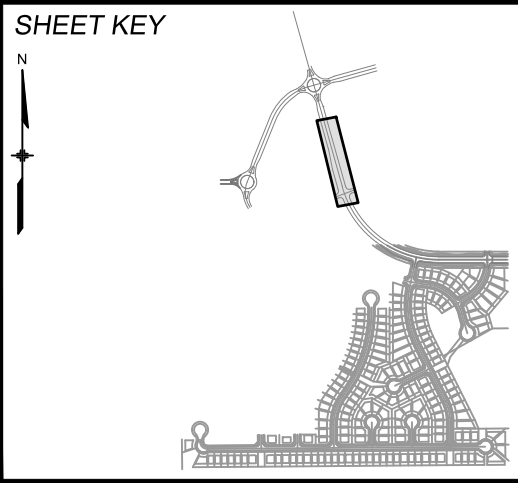
PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 15	S68°56'14"W	15.8'	1.00%	24" RCP
PIPE - 10	S76°57'39"W	13.8'	2.00%	18" RCP
PIPE - 12	S69°45'49"W	49.9'	1.00%	30" RCP
PIPE - 13	N20°30'26"W	30.7'	1.00%	18" RCP
PIPE - 14	S18°10'43"E	7.7'	1.00%	18" RCP
PIPE - 16	N69°45'35"E	101.2'	1.00%	30" RCP
PIPE - 19	N69°45'39"E	25.7'	1.00%	18" RCP
PIPE - 17	N20°14'21"W	30.7'	1.00%	24" RCP
PIPE - 18	S20°14'21"E	7.7'	1.00%	18" RCP

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
INLET 1-B	10' ON-GRADE TYPE R INLET	RIM = 5900.60 PIPE - 10 INV OUT (18") = 5891.37	N: 7698.52 E: 12815.19
INLET 3-C	10' SUMP TYPE R INLET	RIM = 5886.97 PIPE - 13 INV OUT (18") = 5878.99	N: 7331.13 E: 12878.33
INLET 4-C	10' SUMP TYPE R INLET	RIM = 5886.92 PIPE - 14 INV OUT (18") = 5878.76	N: 7295.12 E: 12891.47
INLET 5-C	10' SUMP TYPE R INLET	RIM = 5886.56 PIPE - 17 INV OUT (24") = 5879.00	N: 7383.45 E: 13020.22
INLET 6-C	5' SUMP TYPE R INLET	RIM = 5886.71 PIPE - 18 INV OUT (18") = 5879.27	N: 7347.48 E: 13033.48
MH - 5	6.33' X 6.33' TYPE I MH	RIM = 5900.42 PIPE - 9 INV IN (30") = 5890.09 PIPE - 10 INV IN (18") = 5891.09 PIPE - 11 INV OUT (30") = 5889.09	N: 7701.64 E: 12828.66
MH - 6	6.33' X 6.33' TYPE I 1' DROP MH	RIM = 5886.63 PIPE - 11 INV IN (30") = 5877.18 PIPE - 12 INV IN (30") = 5877.18 PIPE - 16 INV IN (30") = 5877.18 PIPE - 20 INV OUT (42") = 5876.18	N: 7319.66 E: 12935.87
MH - 7	4' TYPE II 1' DROP MH	RIM = 5886.63 PIPE - 13 INV IN (18") = 5878.68 PIPE - 14 INV IN (18") = 5878.68 PIPE - 15 INV IN (24") = 5878.18 PIPE - 12 INV OUT (30") = 5877.68	N: 7302.41 E: 12899.08
MH - 8	4' TYPE II MH	RIM = 5886.34 PIPE - 19 INV IN (18") = 5879.19 PIPE - 17 INV IN (24") = 5878.69 PIPE - 18 INV IN (18") = 5879.19 PIPE - 16 INV OUT (30") = 5878.19	N: 7354.68 E: 13030.83

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COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\SD10-11.dwg			
CTB FILE: ---			
PLOT DATE: July 2, 2019 12:36:27 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			



BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX. LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

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SEAL

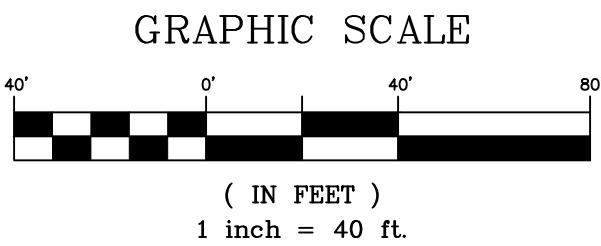
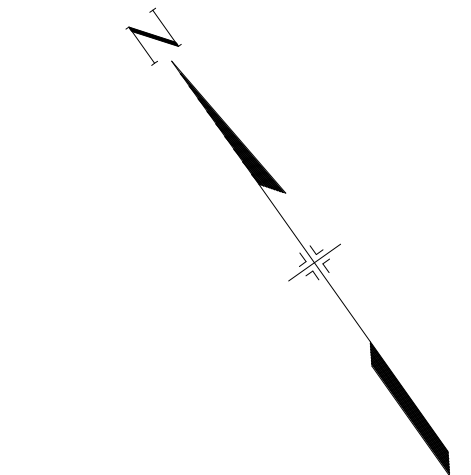
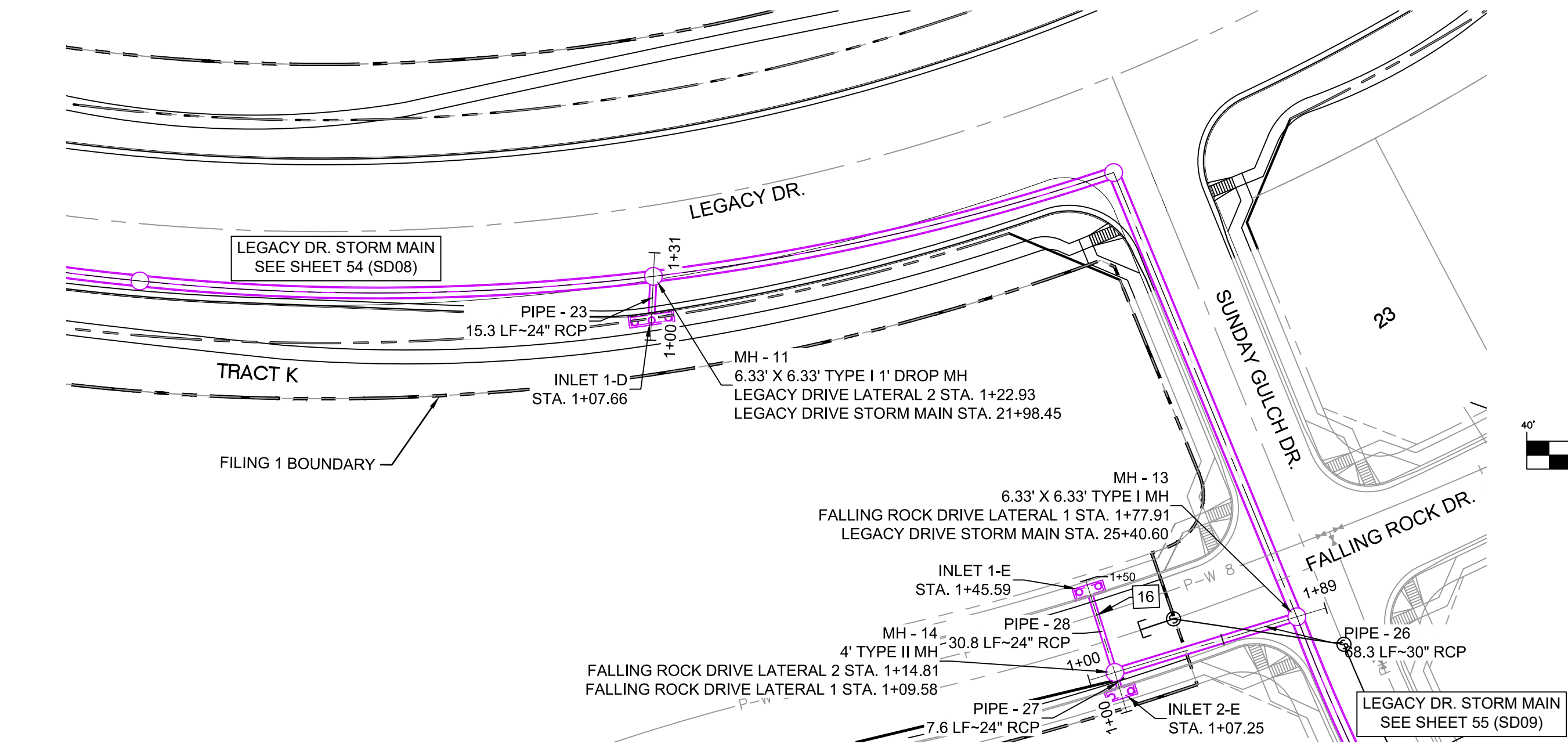
PRELIMINARY
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PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS			
STORM DRAIN PLAN & PROFILE			
DESIGNED BY:	KMZ	SCALE	DATE ISSUED:
DRAWN BY:	LCB	HORIZ 1" = 40'	JULY, 2019
CHECKED BY:	NMS	VERT. 1" = 8'	57 OF 71
			DRAWING No. SD11



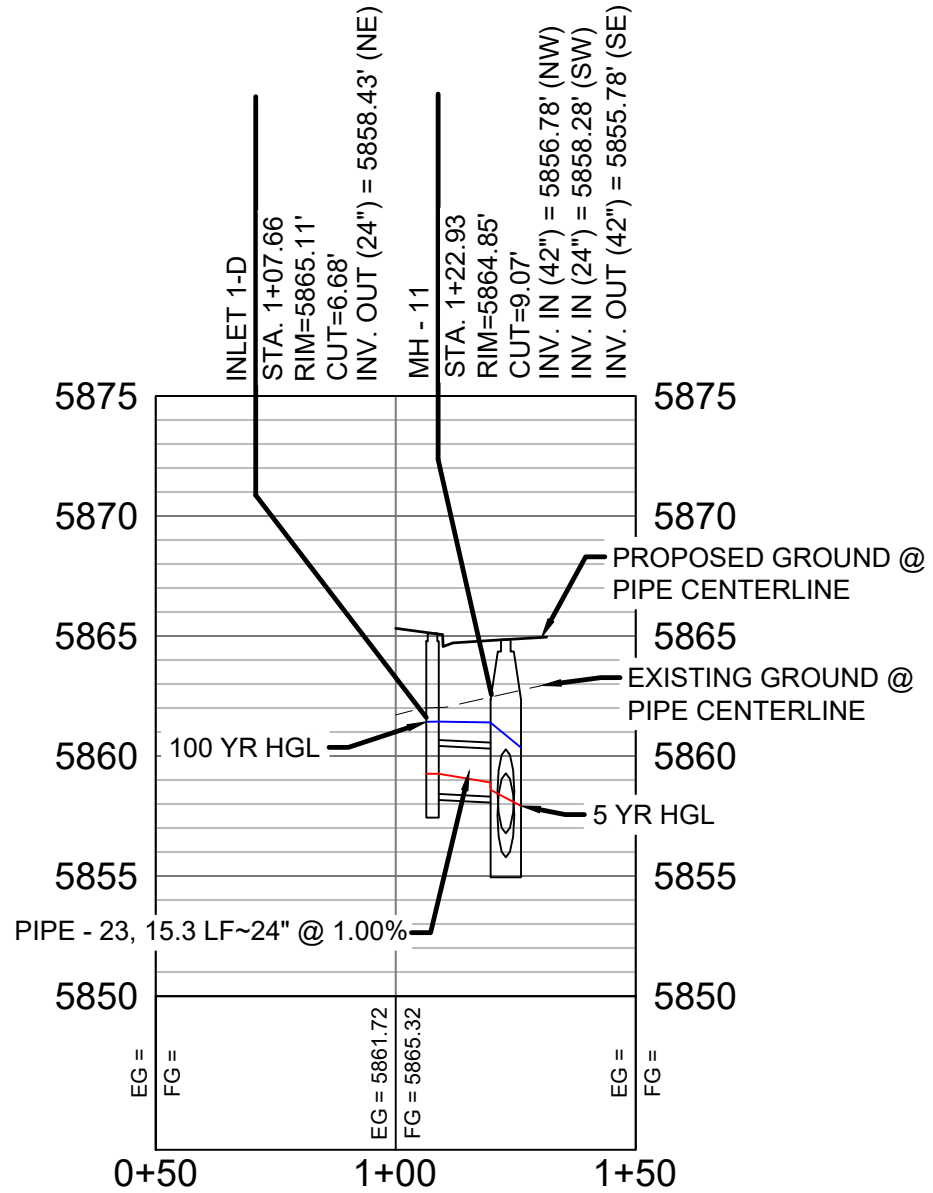
Know what's below.
Call before you dig.



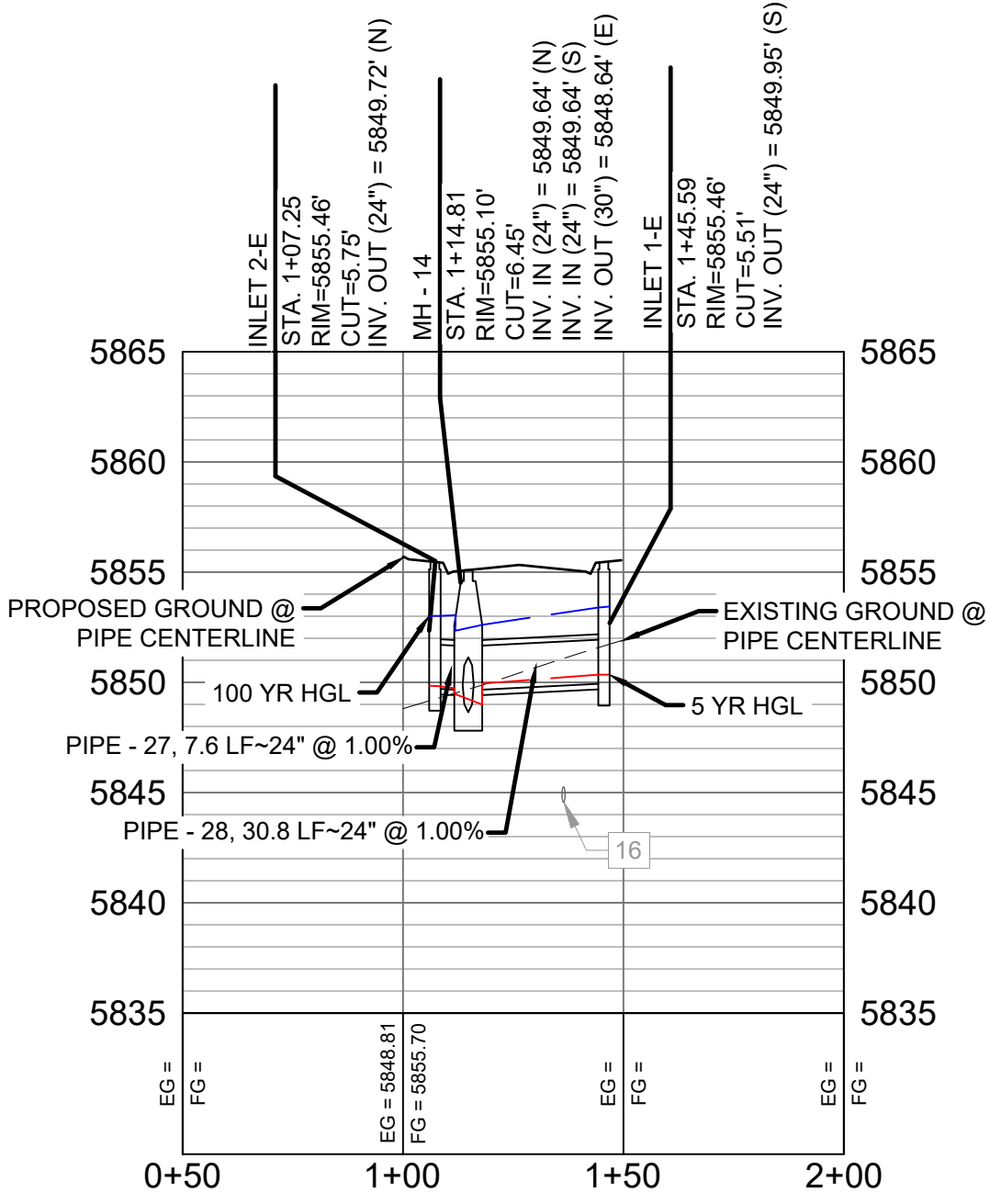
UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
16	N 6.703.91 E 13,372.42	8" PVC WATER 5845.27	24" RCP STORM 5849.65	4.38'

PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 23	S37°42'09"W	15.3'	1.00%	24" RCP
PIPE - 27	S18°20'37"W	7.6'	1.00%	24" RCP
PIPE - 26	N71°59'55"W	68.3'	0.50%	30" RCP
PIPE - 28	N17°33'46"E	30.8'	1.00%	24" RCP

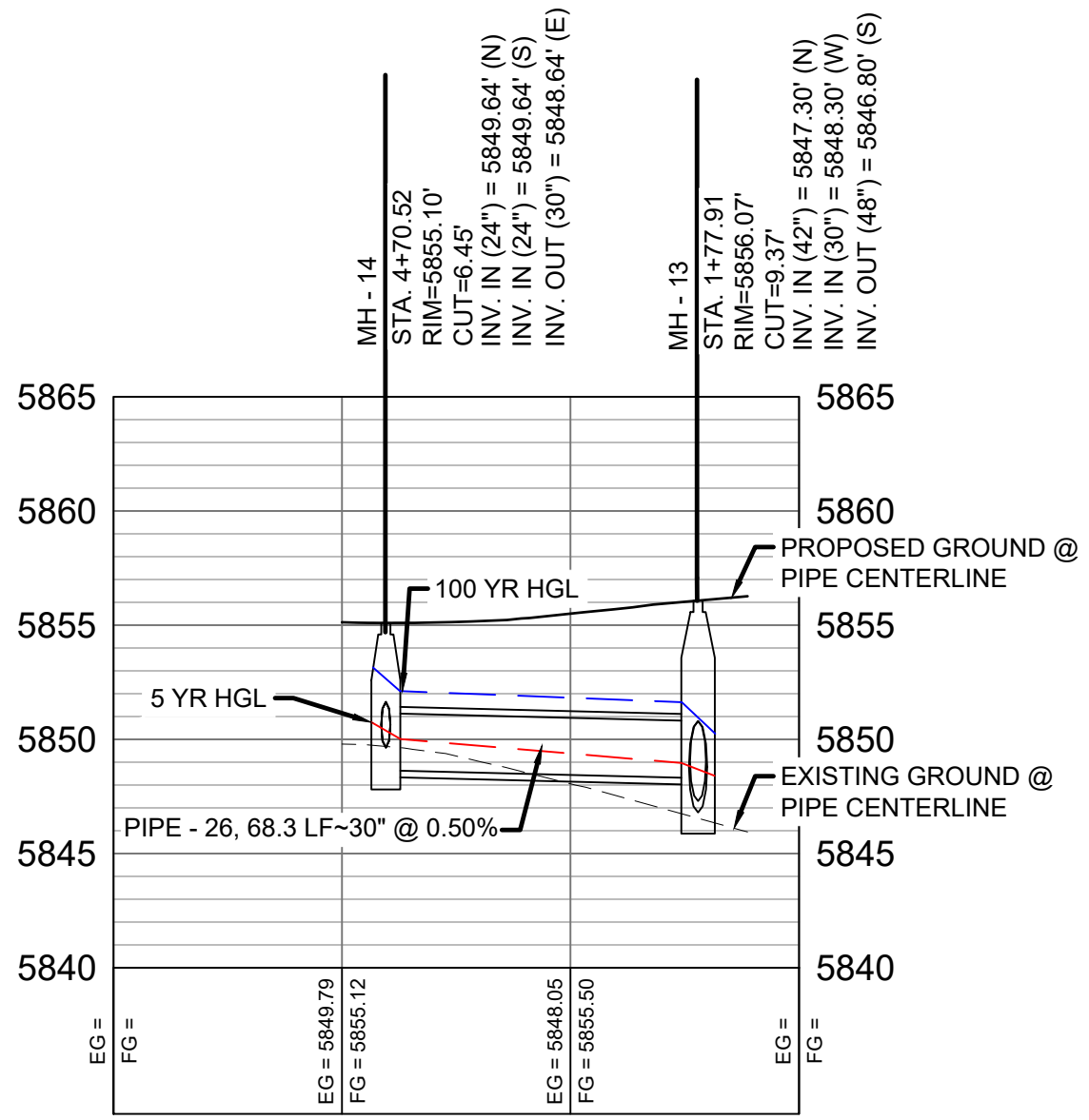
STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
INLET 1-D	15' ON-GRADE TYPE R INLET	RIM = 5865.11 PIPE - 23 INV OUT (24") = 5858.43	N: 6882.78 E: 13302.14
INLET 1-E	10' SUMP TYPE R INLET	RIM = 5855.46 PIPE - 28 INV OUT (24") = 5849.95	N: 6712.74 E: 13374.91
INLET 2-E	10' SUMP TYPE R INLET	RIM = 5855.46 PIPE - 27 INV OUT (24") = 5849.72	N: 6676.22 E: 13363.24
MH - 11	6.33' X 6.33' TYPE I 1' DROP MH	RIM = 5864.85 PIPE - 22 INV IN (42") = 5856.78 PIPE - 23 INV IN (24") = 5858.28 PIPE - 24 INV OUT (42") = 5855.78	N: 6894.86 E: 13311.48
MH - 13	6.33' X 6.33' TYPE I MH	RIM = 5856.07 PIPE - 25 INV IN (42") = 5847.30 PIPE - 26 INV IN (30") = 5848.30 PIPE - 29 INV OUT (48") = 5846.80	N: 6662.28 E: 13430.61
MH - 14	4' TYPE II MH	RIM = 5855.10 PIPE - 28 INV IN (24") = 5849.64 PIPE - 27 INV IN (24") = 5849.64 PIPE - 26 INV OUT (30") = 5848.64	N: 6683.40 E: 13365.62



LEGACY DRIVE LATERAL 2 PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'



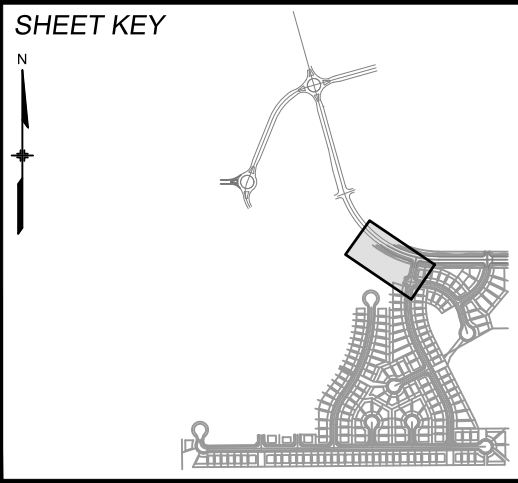
FALLING ROCK DRIVE LATERAL 2 PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'



FALLING ROCK DRIVE LATERAL 1 PROFILE
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VERT. SCALE: 1" = 8'

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No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\SD12.dwg			
CTB FILE: ----			
PLOT DATE: July 2, 2019 12:39:29 PM			
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BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4" AULM. CAP PLS 10377)

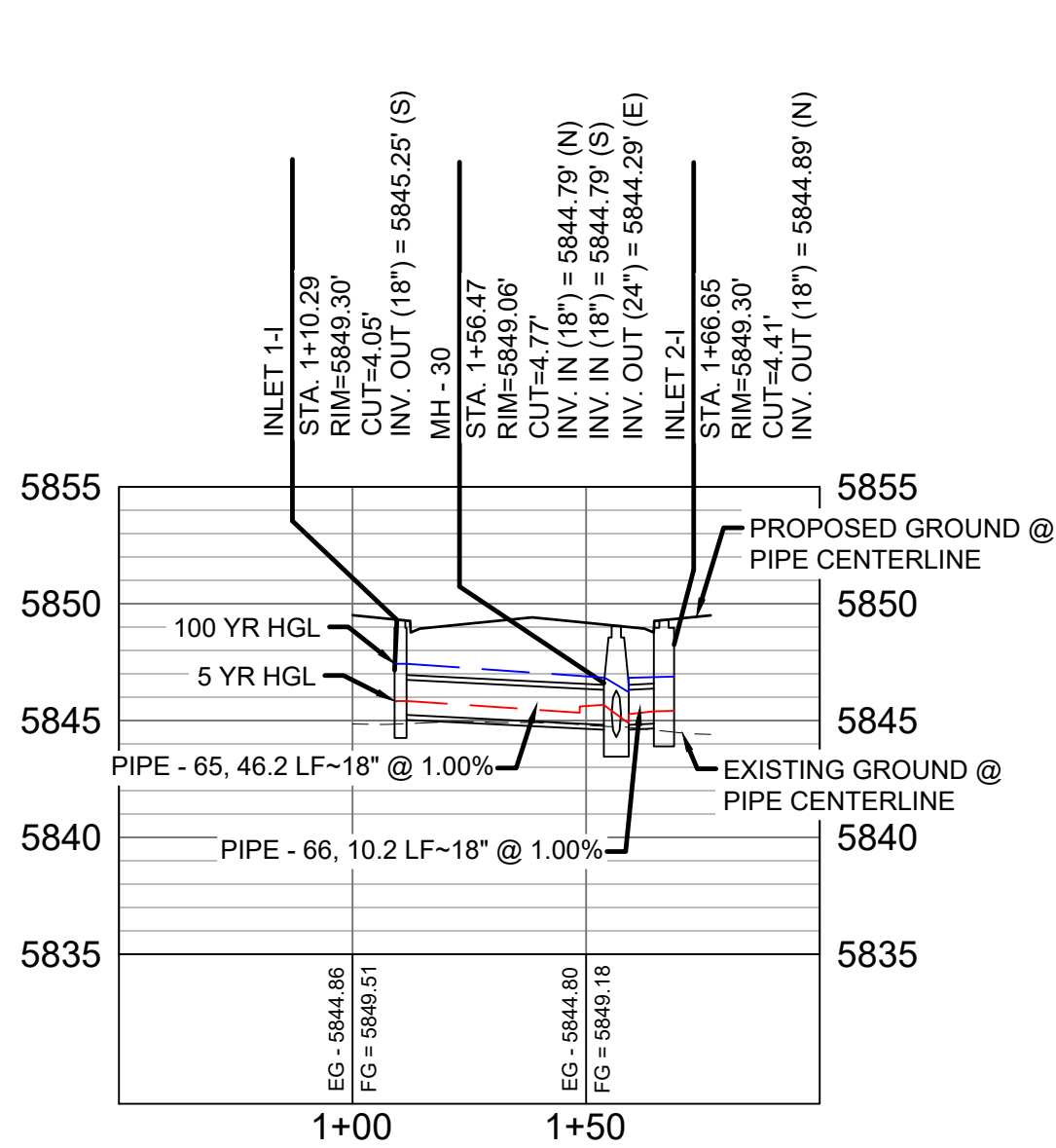
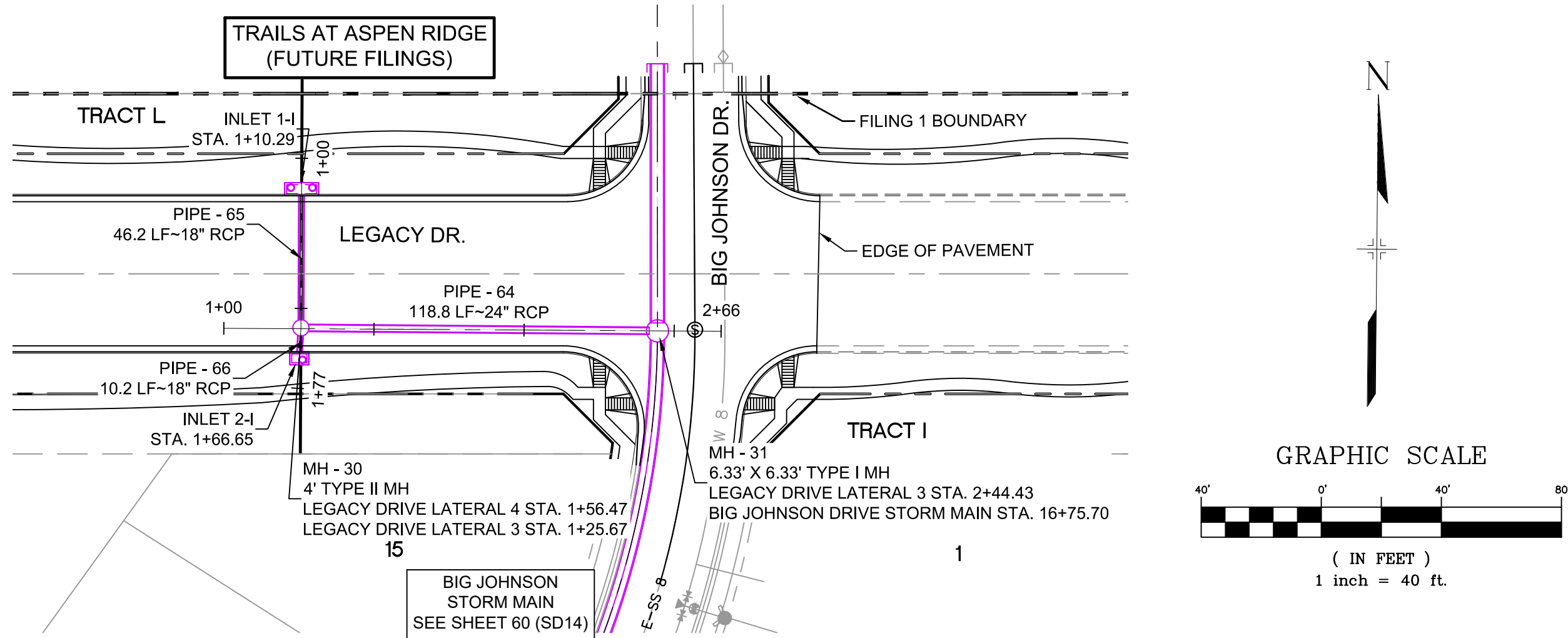


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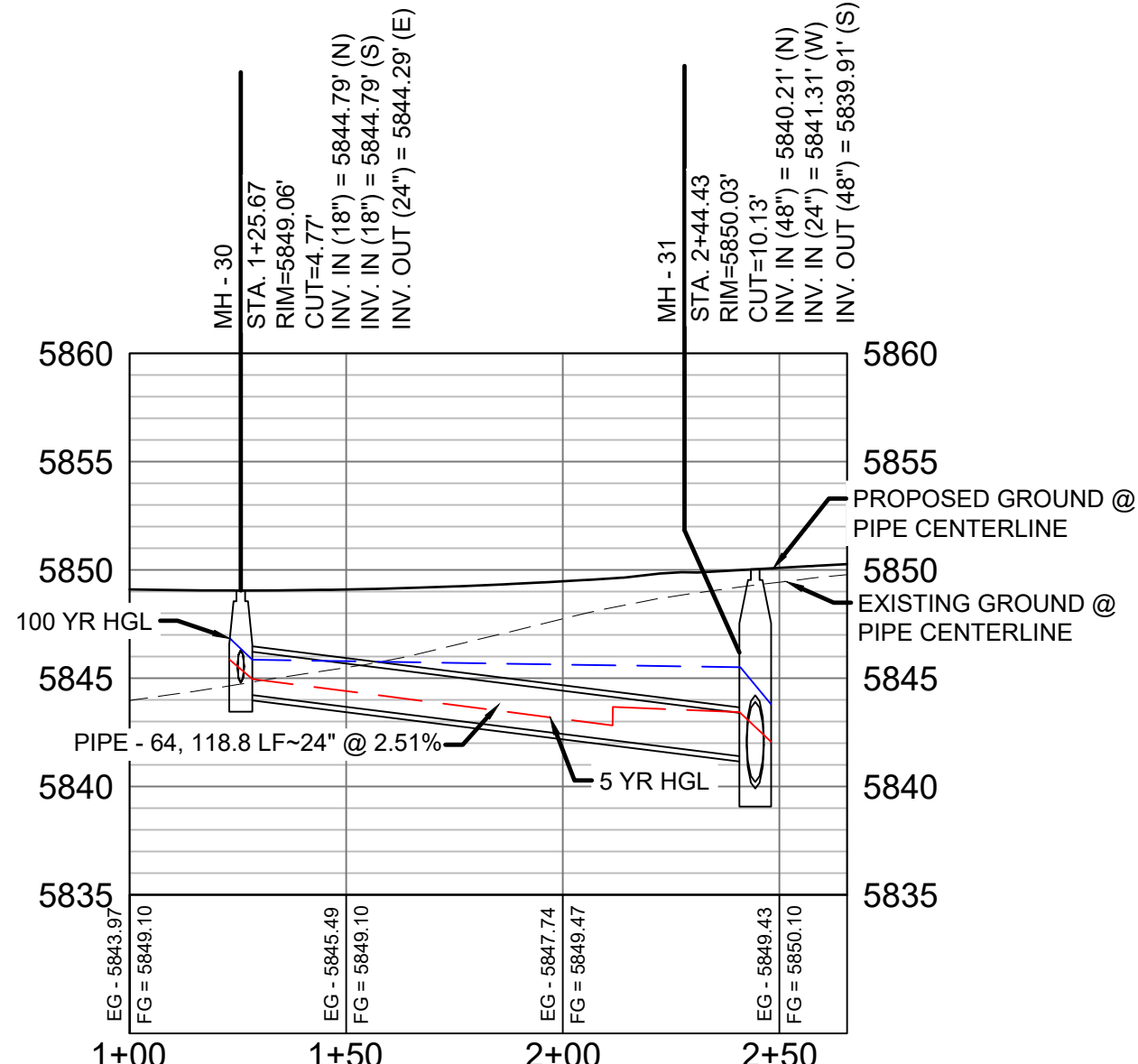
PRELIMINARY
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FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS			
STORM DRAIN PLAN & PROFILE			
DESIGNED BY: KMZ	SCALE: 1" = 40'	DATE ISSUED: JULY, 2019	DRAWING No. SD12
DRAWN BY: LCB	HORIZ. 1" = 40'		
CHECKED BY: NMS	VERT. 1" = 8'	SHEET 58 OF 71	



LEGACY DRIVE LATERAL 4 PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'



LEGACY DRIVE LATERAL 3 PROFILE
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
INLET 1-1	10' SUMP TYPE R INLET	RIM = 5849.30 PIPE - 65 INV OUT (18") = 5845.25	N: 6868.66 E: 13884.96
INLET 2-1	5' SUMP TYPE R INLET	RIM = 5849.30 PIPE - 66 INV OUT (18") = 5844.89	N: 6812.31 E: 13884.17
MH - 30	4' TYPE II MH	RIM = 5849.06 PIPE - 65 INV IN (18") = 5844.79 PIPE - 66 INV IN (18") = 5844.79 PIPE - 64 INV OUT (24") = 5844.29	N: 6822.48 E: 13884.73
MH - 31	6.33' X 6.33' TYPE I MH	RIM = 5850.03 PIPE - 63 INV IN (48") = 5840.21 PIPE - 64 INV IN (24") = 5841.31 PIPE - 67 INV OUT (48") = 5839.91	N: 6821.46 E: 14003.48

PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 64	N89°30'31"W	118.8'	2.51%	24" RCP
PIPE - 65	N00°16'54"E	46.2'	1.00%	18" RCP
PIPE - 66	S03°09'19"W	10.2'	1.00%	18" RCP

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 - ALL PIPE BENDS ANGLES ARE MEASURED FROM THE CENTER OF PIPE.
 - CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES.
 - TOP OF BOX ELEVATIONS GIVEN FOR CDOT TYPE R INLETS REFER TO THE CITY STANDARD DETAIL FOR CORRESPONDING DESIGN ELEVATIONS.
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 - ALL TYPE C INLETS ARE TO COLORADO DEPARTMENT OF TRANSPORTATION STANDARD TYPE M-604-10.
 - PER THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL, MANHOLES SHALL BE INSTALLED 1/8" BELOW THE SURFACE OF THE PAVEMENT ON THE LOWEST SIDE OF THE MANHOLE."

REFERENCE DRAWINGS

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\SD13-14.dwg			
CTB FILE: ----			
PLOT DATE: July 2, 2019 12:42:10 PM			
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SHEET KEY

BENCHMARK

COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING

BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4" AULM. CAP PLS 10377)

PREPARED BY:

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

SEAL

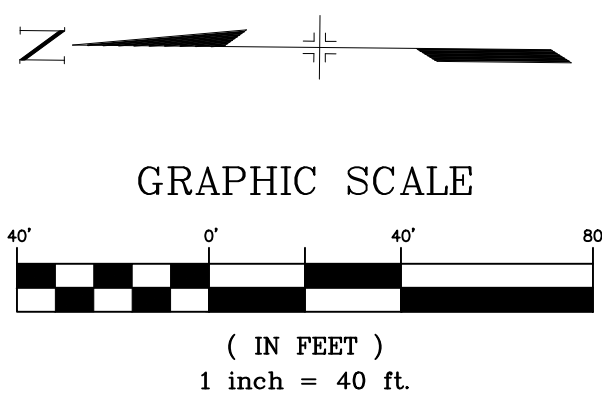
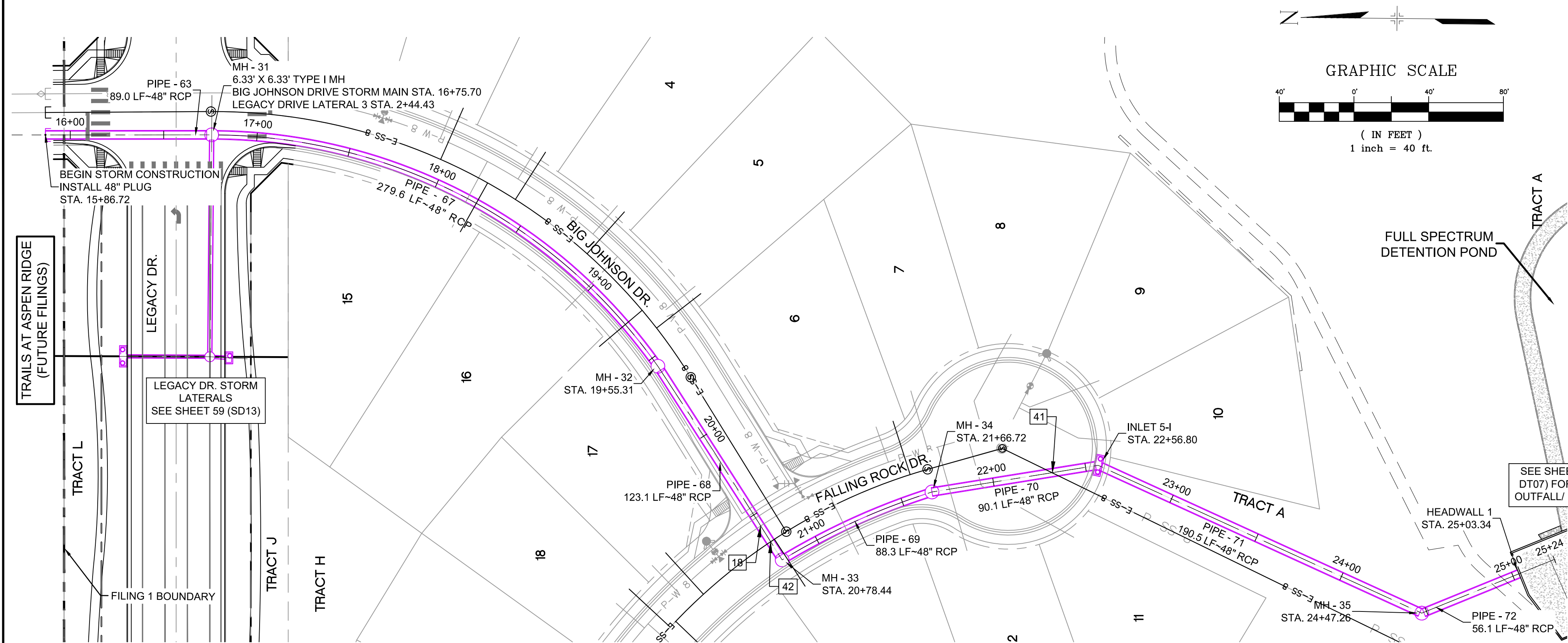
PRELIMINARY
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TRAILS AT ASPEN RIDGE

FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

STORM DRAIN PLAN & PROFILE

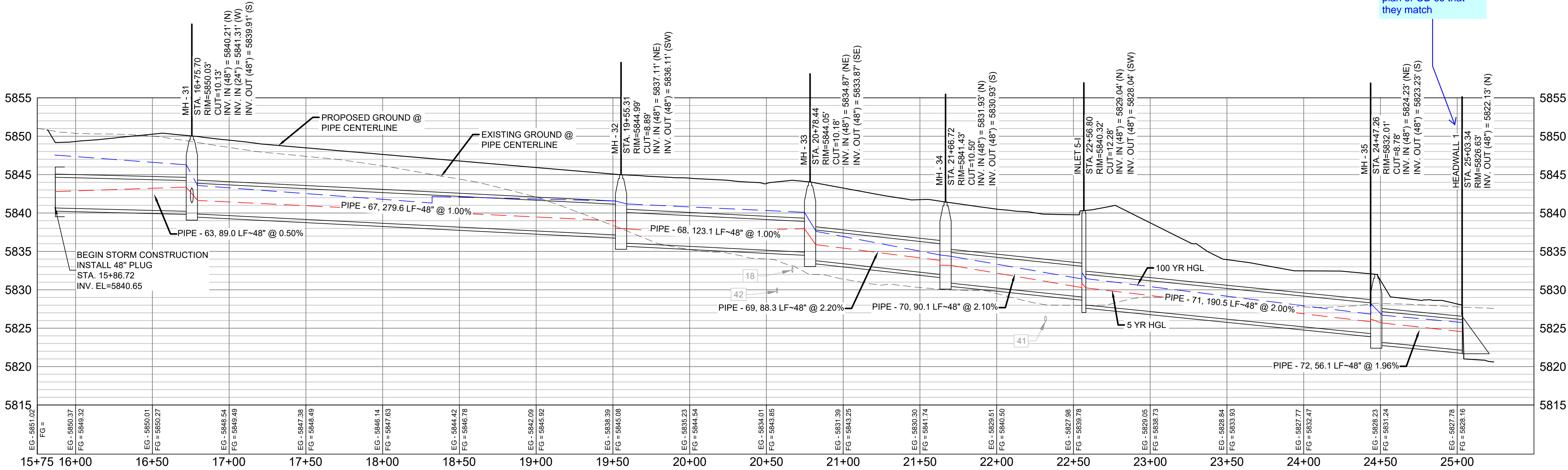
DESIGNED BY:	KMZ	SCALE	DATE ISSUED:	JULY, 2019	DRAWING No.
DRAWN BY:	LCB	HORIZ 1" = 40'			
CHECKED BY:	NMS	VERT. 1" = 8'	SHEET	59 OF 71	SD13



UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
18	N 6,527.71 E 13,794.11	8" PVC WATER 5830.27	48" RCP STORM 5834.68	4.52'
41	N 6,373.53 E 13,823.63	8" PVC SAN 5826.60	48" RCP STORM 5829.29	2.69'
42	N 6,522.39 E 13,785.59	8" PVC SAN 5832.96	48" RCP STORM 5834.52	1.56'

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
HEADWALL 1	25'-1/2" HEADWALL	RIM = 5826.63 PIPE - 72 INV IN (48") = 5822.13	N: 6121.72 E: 13768.57
INLET 5-I	10' SUMP TYPE R INLET WITH 1' DROP	RIM = 5840.32 PIPE - 70 INV IN (48") = 5829.04 PIPE - 71 INV OUT (48") = 5828.04	N: 6346.94 E: 13826.64
MH - 31	6.33' X 6.33' TYPE I MH	RIM = 5850.03 PIPE - 63 INV IN (48") = 5840.21 PIPE - 64 INV IN (24") = 5841.31 PIPE - 67 INV OUT (48") = 5839.91	N: 6821.46 E: 14003.48
MH - 32	6.33' X 6.33' TYPE I 1' DROP MH	RIM = 5844.99 PIPE - 67 INV IN (48") = 5837.11 PIPE - 68 INV OUT (48") = 5836.11	N: 6582.59 E: 13879.65
MH - 33	6.33' X 6.33' TYPE I 1' DROP MH	RIM = 5844.05 PIPE - 68 INV IN (48") = 5834.87 PIPE - 69 INV OUT (48") = 5833.87	N: 6516.10 E: 13776.02
MH - 34	6.33' X 6.33' TYPE I 1' DROP MH	RIM = 5841.43 PIPE - 69 INV IN (48") = 5831.93 PIPE - 70 INV OUT (48") = 5830.93	N: 6435.89 E: 13812.37
MH - 35	6.33' X 6.33' TYPE I 1' DROP MH	RIM = 5832.01 PIPE - 71 INV IN (48") = 5824.23 PIPE - 72 INV OUT (48") = 5823.23	N: 6173.69 E: 13747.51

The drainage plan indicates a FES. Revise the drainage plan or CD so that they match

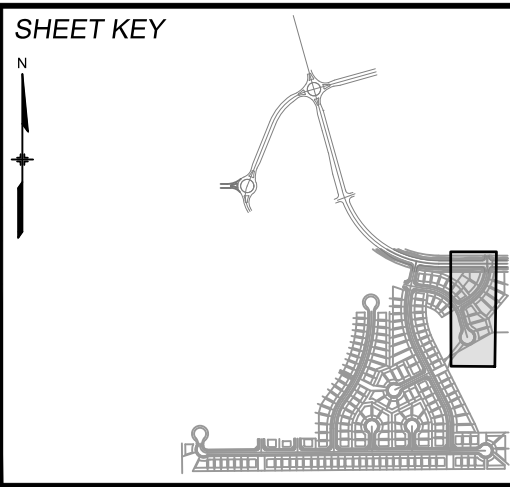


PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 63	S00°01'15"E	89.0'	0.50%	48" RCP
PIPE - 70	S09°06'55"E	90.1'	2.10%	48" RCP
PIPE - 71	S24°32'55"W	190.5'	2.00%	48" RCP
PIPE - 68	S57°19'01"W	123.1'	1.00%	48" RCP
PIPE - 72	S22°03'30"E	56.1'	1.96%	48" RCP

PIPE TABLE					
PIPE NAME	RADIUS	CHORD LENGTH	LENGTH	SLOPE	SIZE
PIPE - 69	368.81'	88.06'	88.27'	2.200%	48" RCP
PIPE - 67	292.32'	269.07'	279.60'	1.000%	48" RCP

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CTB FILE: ---			
PLOT DATE: July 2, 2019 12:42:37 PM			
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BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

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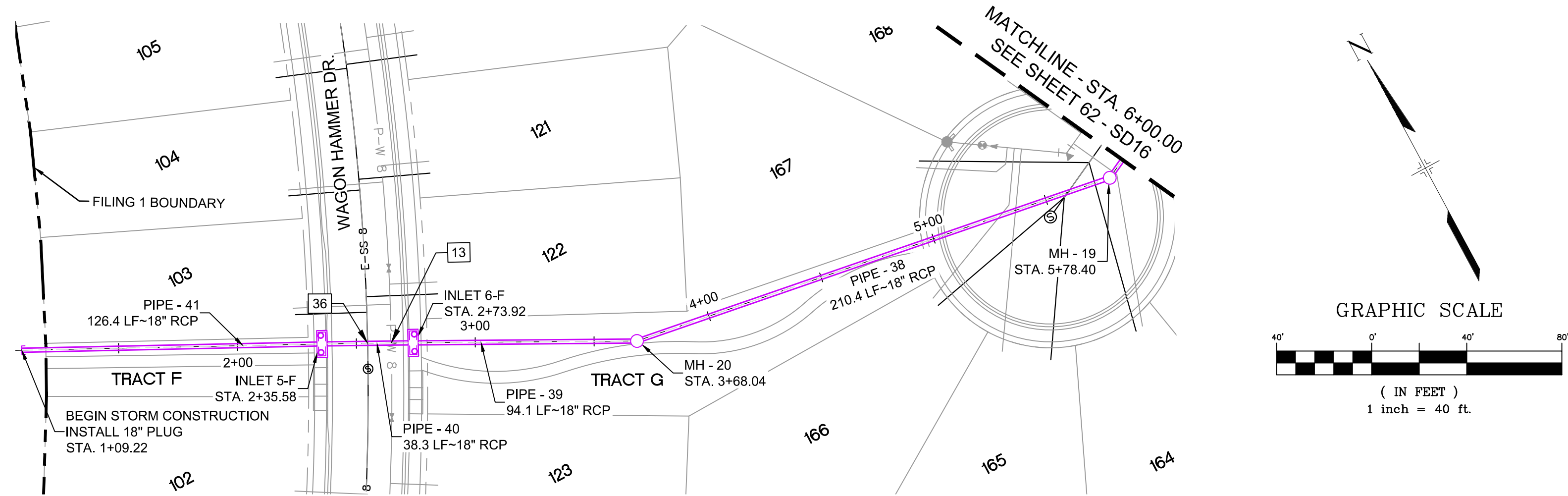


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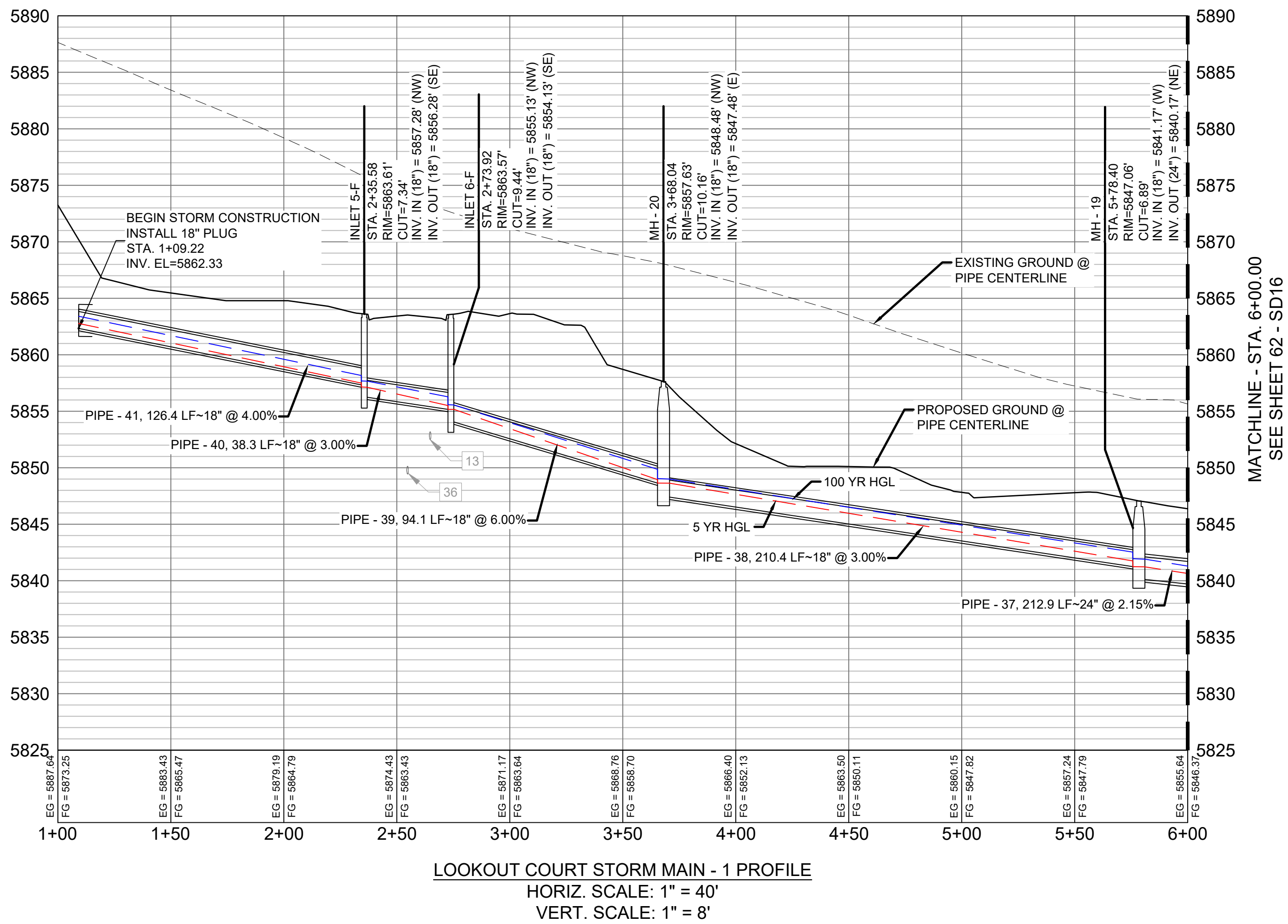
PRELIMINARY
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FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS			
STORM DRAIN PLAN & PROFILE			
DESIGNED BY: KMZ	SCALE: HORIZ 1" = 40'	DATE ISSUED: JULY, 2019	DRAWING No. SD14
CHECKED BY: NMS	VERT. 1" = 8'	SHEET 60 OF 71	



UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
13	N 5,982.06	8" PVC WATER	18" RCP STORM	2.00'
	E 13,049.72	5853.20	5855.20	
36	N 5,986.69	8" PVC SAN	18" RCP STORM	4.42'
	E 13,040.96	5850.14	5854.66	



STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
INLET 5-F	10' ON-GRADE TYPE R INLET WITH 1' DROP	RIM = 5863.61	N: 5995.43 E: 13023.79
		PIPE - 41 INV IN (18") = 5857.28	
		PIPE - 40 INV OUT (18") = 5856.28	
INLET 6-F	10' ON-GRADE TYPE R INLET WITH 1' DROP	RIM = 5863.57	N: 5977.85 E: 13057.66
		PIPE - 40 INV IN (18") = 5855.13	
		PIPE - 39 INV OUT (18") = 5854.13	
MH - 19	4' TYPE II 1' DROP MH	RIM = 5847.06	N: 5901.55 E: 13349.10
		PIPE - 38 INV IN (18") = 5841.17	
		PIPE - 37 INV OUT (24") = 5840.17	
MH - 20	4' TYPE II 1' DROP MH	RIM = 5857.63	N: 5934.33 E: 13141.31
		PIPE - 39 INV IN (18") = 5848.48	
		PIPE - 38 INV OUT (18") = 5847.48	

PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 38	N81°02'02"W	210.4'	3.00%	18" RCP
PIPE - 39	N62°27'25"W	94.1'	6.00%	18" RCP
PIPE - 40	N62°43'00"W	38.3'	3.00%	18" RCP
PIPE - 41	N63°12'15"W	126.4'	4.00%	18" RCP
PIPE - 37	S63°24'17"W	212.9'	2.15%	24" RCP

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CTB FILE: ----			
PLOT DATE: July 2, 2019 12:45:29 PM			
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SHEET KEY

BENCHMARK

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ELEVATION - 5897.89' U.S. SURVEY FT

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PREPARED BY:

Matrix DESIGN GROUP

SEAL

PRELIMINARY

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FOR AND ON BEHALF OF

MATRIX DESIGN GROUP, INC.

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TRAILS AT ASPEN RIDGE

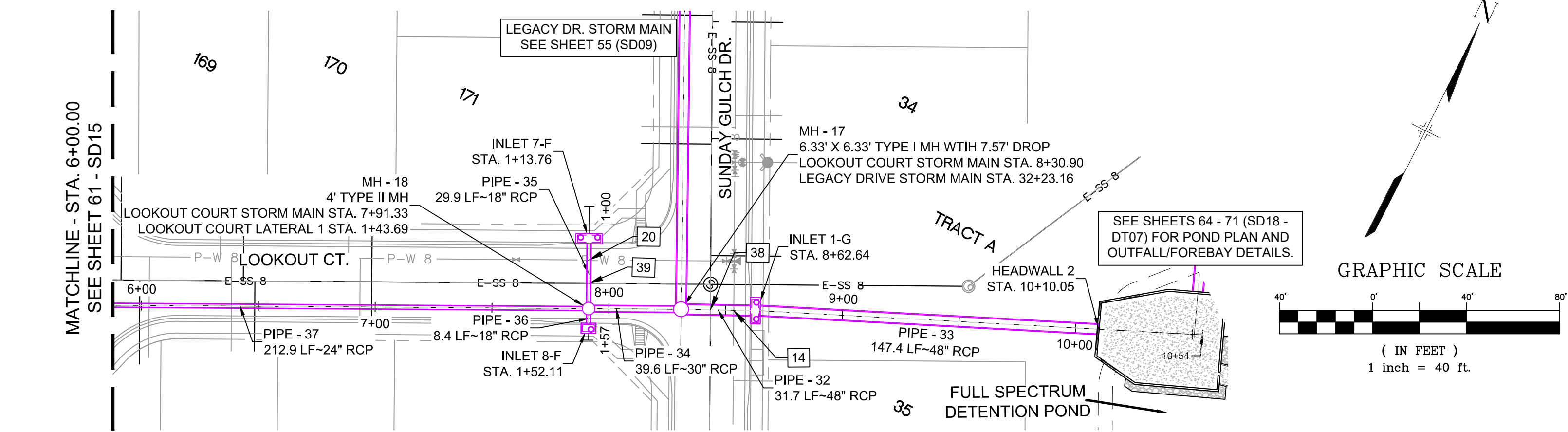
FILING NO. 1
ROADWAY & STORM IMPROVEMENT PLANS

STORM DRAIN PLAN & PROFILE

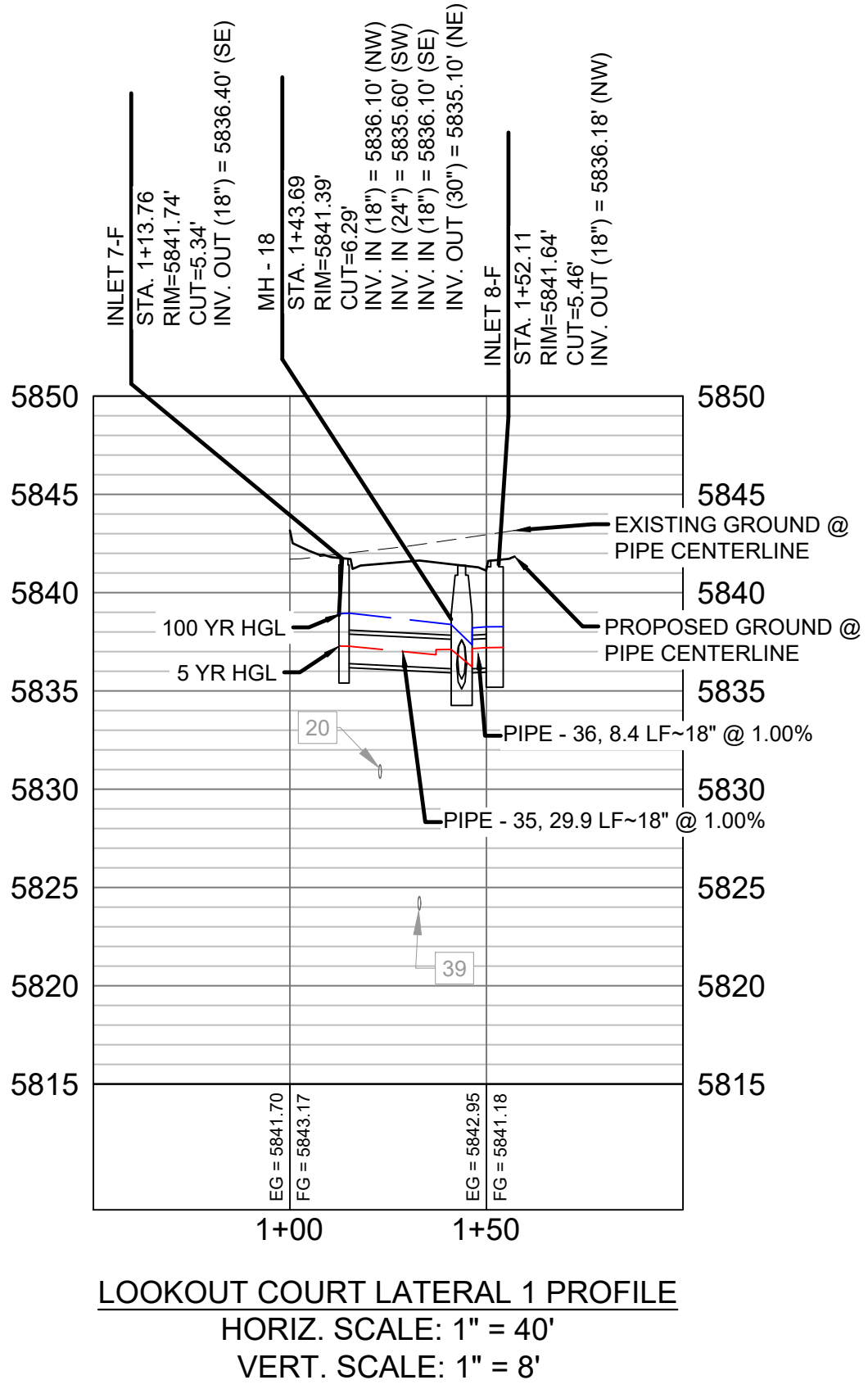
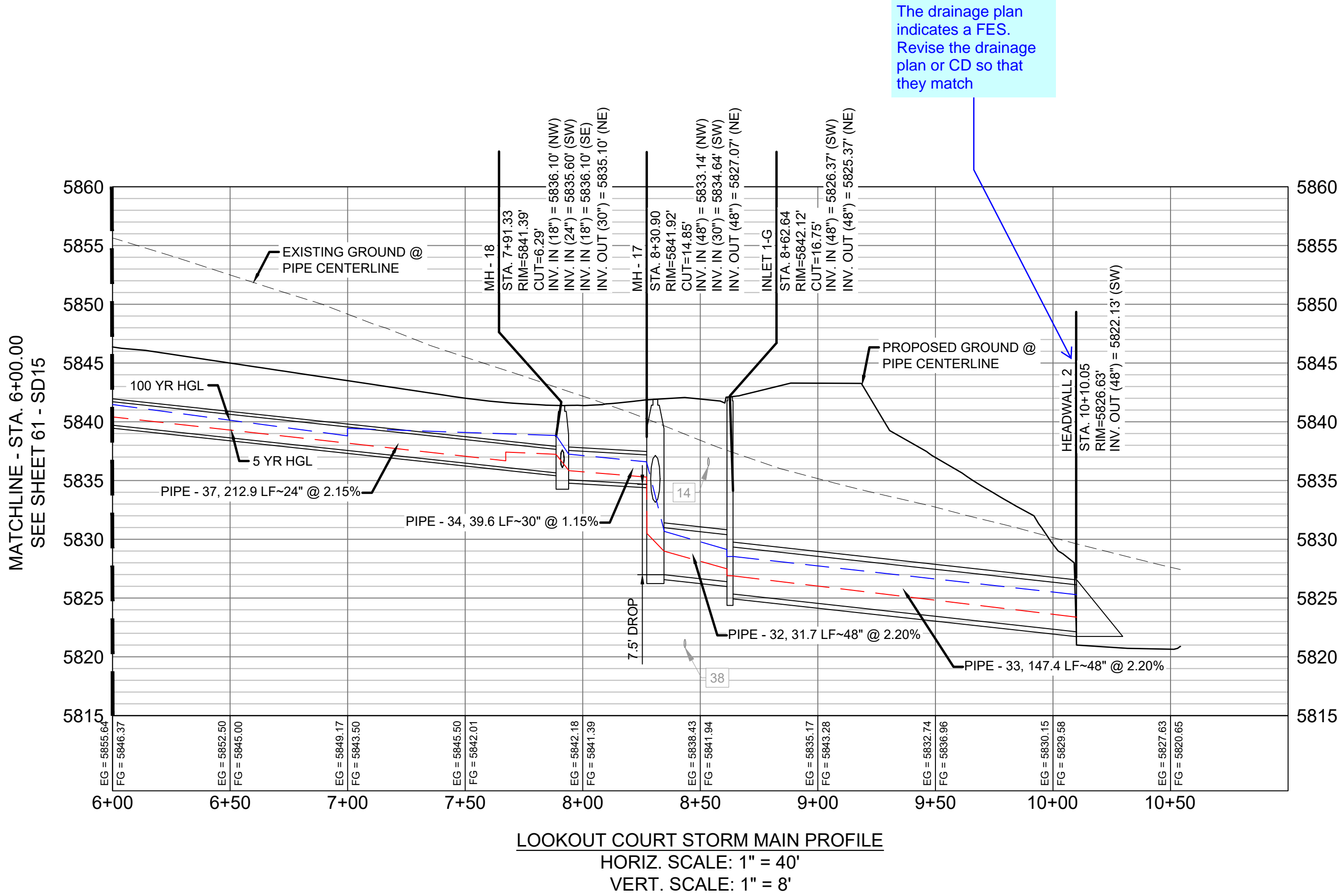
DESIGNED BY:	KMZ	SCALE	DATE ISSUED:	JULY, 2019	DRAWING No.
DRAWN BY:	LCB	HORIZ	N.A.		
CHECKED BY:	NMS	VERT.	N.A.	SHEET 61 OF 71	SD15



UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	SEPARATION
14	N 6,024.68 E 13,595.07	48" RCP STORM 5830.98	8" PVC WATER 5836.23	5.25'
20	N 6,015.43 E 13,530.21	8" PVC WATER 5831.26	18" RCP STORM 5836.10	4.84'
38	N 6,020.11 E 13,585.98	8" PVC SAN 5821.49	48" RCP STORM 5823.46	1.97'
39	N 6,006.40 E 13,534.70	8" PVC SAN 5824.56	18" RCP STORM 5836.00	11.44'



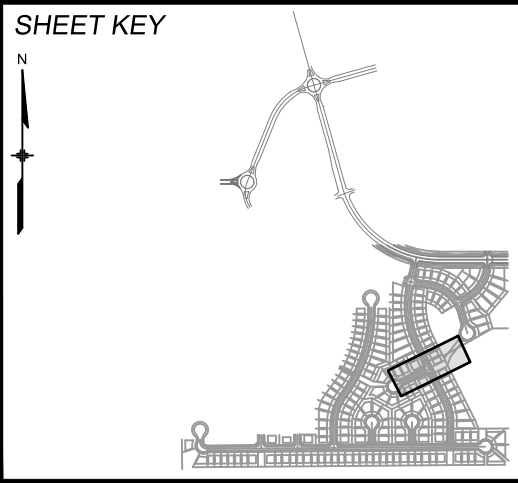
STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
HEADWALL 2	24'-5 1/8" HEADWALL	RIM = 5826.63 PIPE - 33 INV IN (48") = 5822.13	N: 6088.17 E: 13738.21
INLET 1-G	10' ON-GRADE TYPE R INLET WITH 1' DROP	RIM = 5842.12 PIPE - 32 INV IN (48") = 5826.37 PIPE - 33 INV OUT (48") = 5825.37	N: 6028.42 E: 13603.45
INLET 7-F	10' SUMP TYPE R INLET	RIM = 5841.74 PIPE - 35 INV OUT (18") = 5836.40	N: 6023.63 E: 13526.12
INLET 8-F	5' SUMP TYPE R INLET	RIM = 5841.64 PIPE - 36 INV OUT (18") = 5836.18	N: 5989.35 E: 13543.28
MH - 17	6.33' X 6.33' TYPE I MH WITH 7.57' DROP	RIM = 5841.92 PIPE - 31 INV IN (48") = 5833.14 PIPE - 34 INV IN (30") = 5834.64 PIPE - 32 INV OUT (48") = 5827.07	N: 6014.58 E: 13574.89
MH - 18	4' TYPE II MH	RIM = 5841.39 PIPE - 35 INV IN (18") = 5836.10 PIPE - 37 INV IN (24") = 5835.60 PIPE - 36 INV IN (18") = 5836.10 PIPE - 34 INV OUT (30") = 5835.10	N: 5996.88 E: 13539.51



PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 34	S63°25'00"W	39.6'	1.15%	30" RCP
PIPE - 33	N66°05'26"E	147.4'	2.20%	48" RCP
PIPE - 32	S64°08'25"W	31.7'	2.20%	48" RCP
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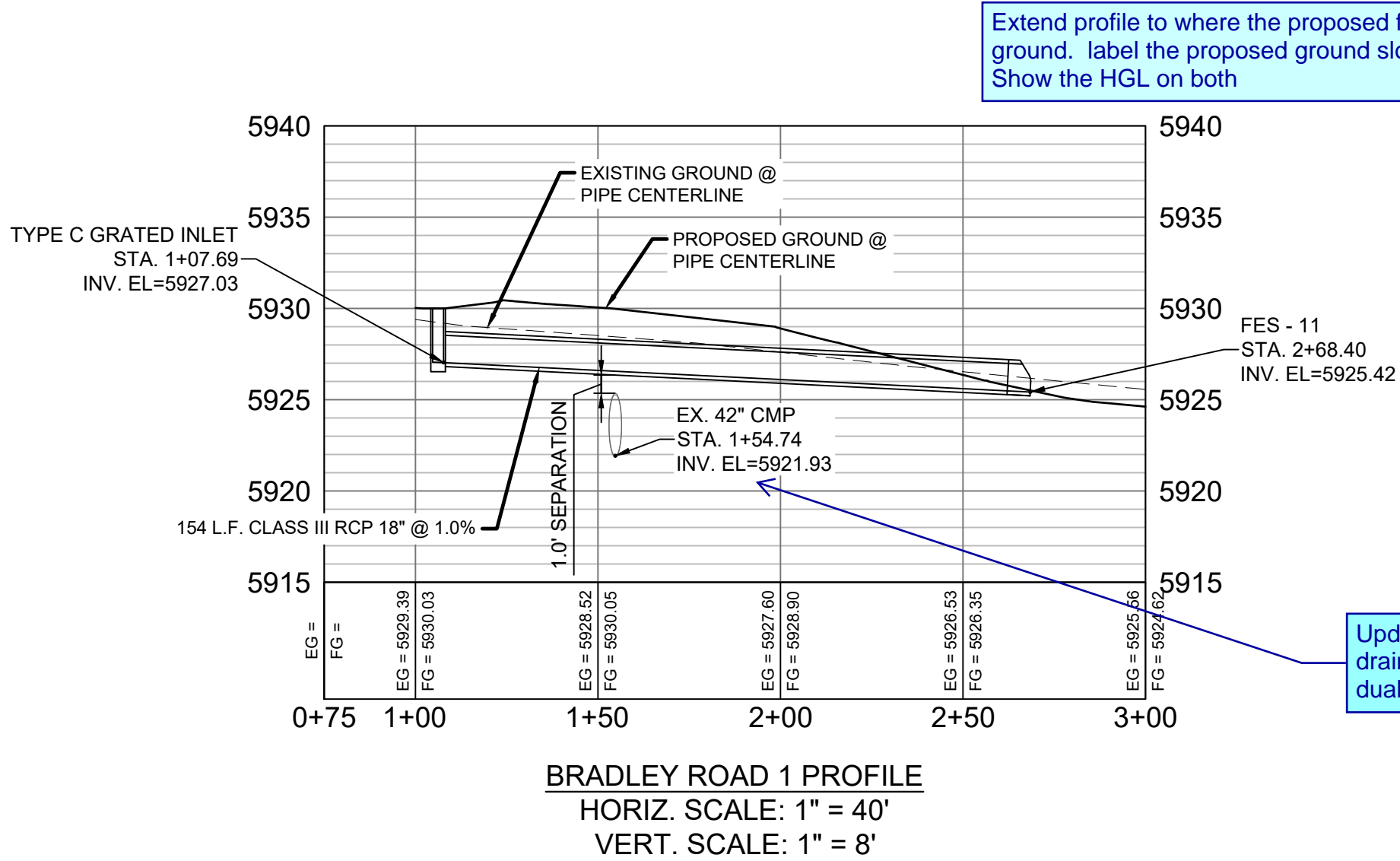
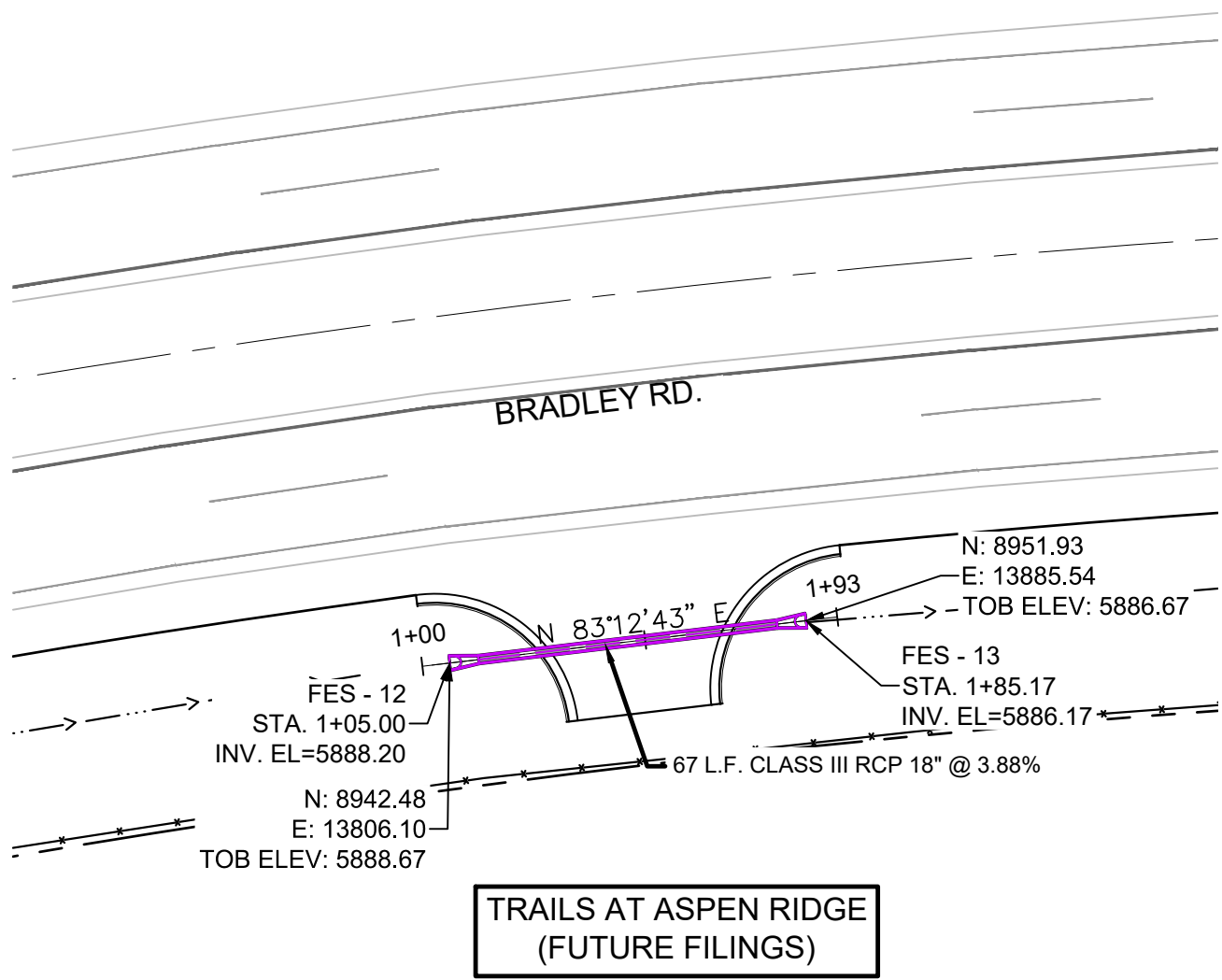
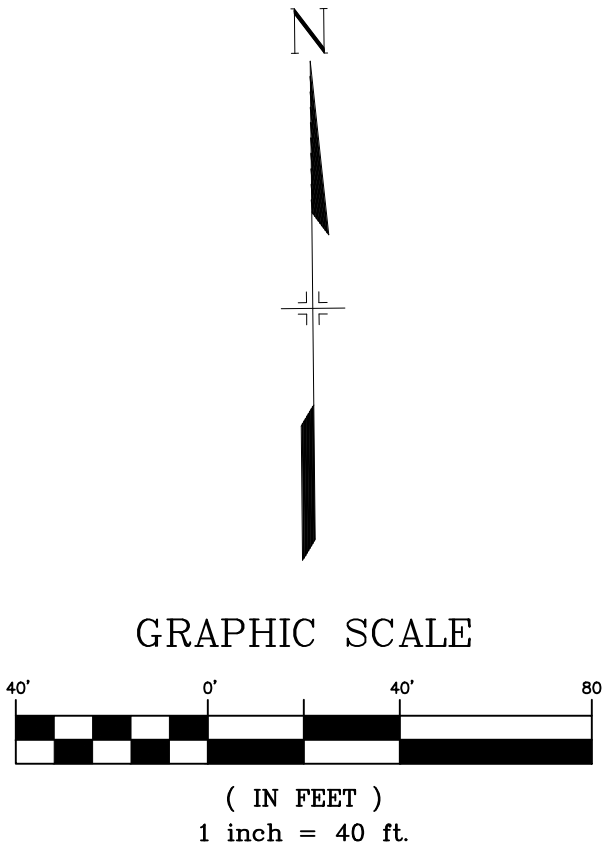
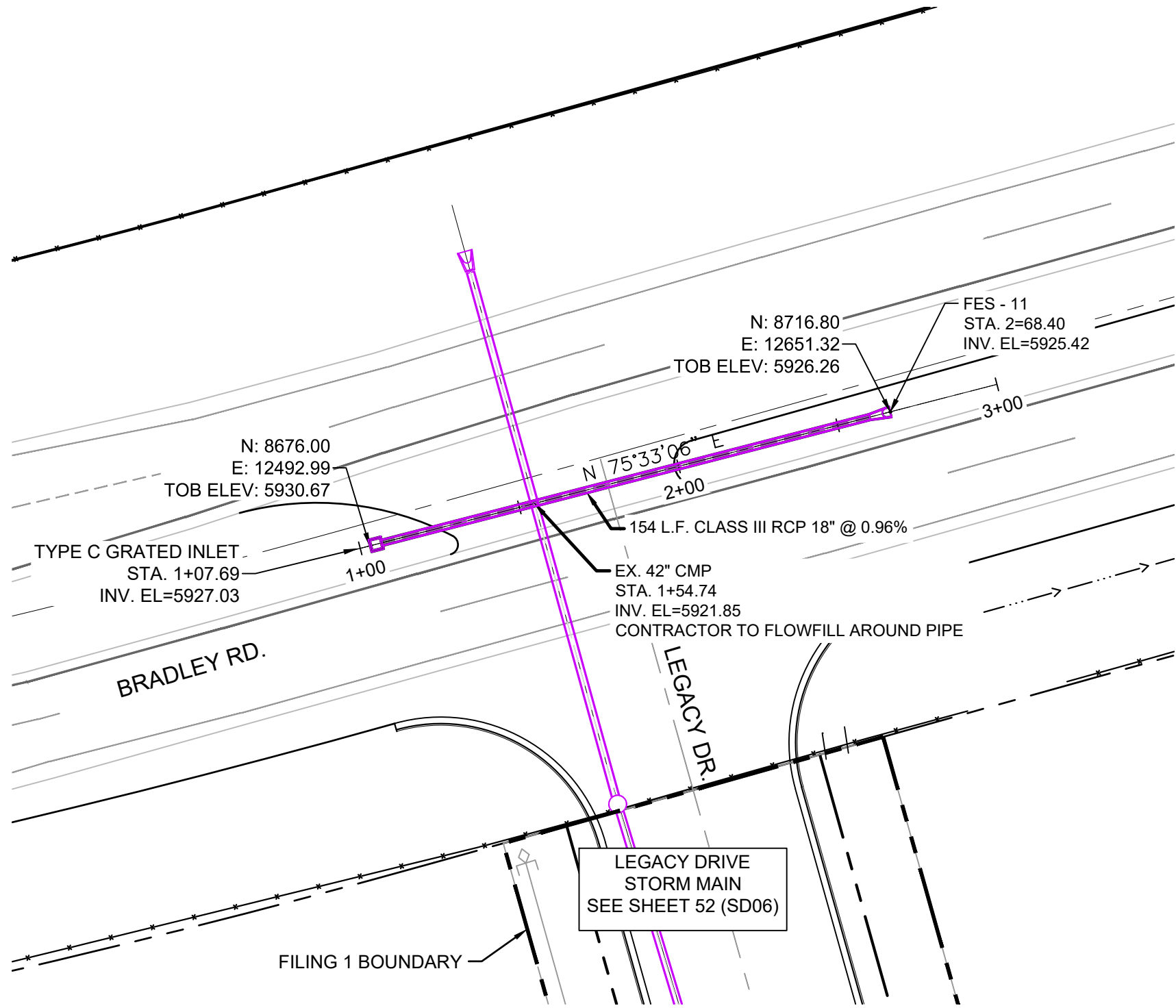
PRELIMINARY
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FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS			
STORM DRAIN PLAN & PROFILE			
DESIGNED BY: KMZ	SCALE: 1" = 40'	DATE ISSUED: JULY, 2019	DRAWING No. SD16
CHECKED BY: NMS	VERT. 1" = 8'	SHEET 62 OF 71	



Know what's below.
Call before you dig.

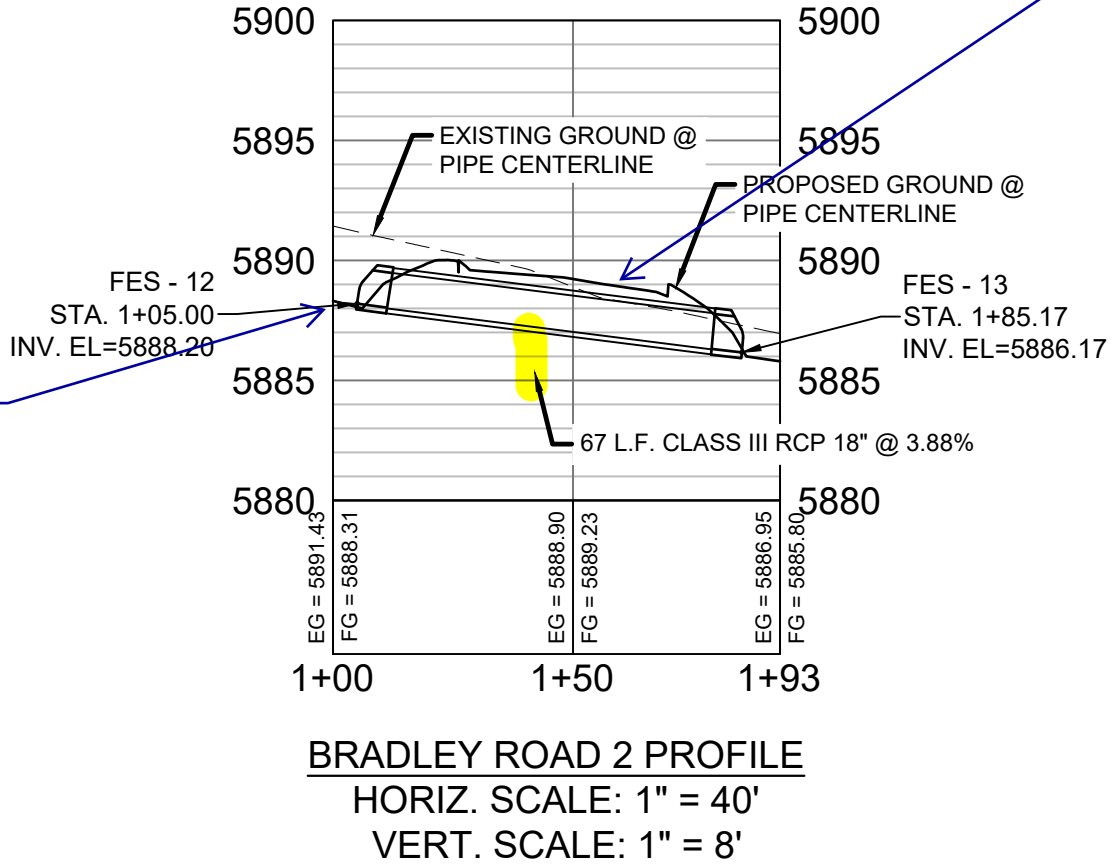


Extend profile to where the proposed flowline connects to existing ground. label the proposed ground slope. Show the HGL on both

Update. The drainage report noted dual 42" CMP.

provide culvert calculation for both pipes and determine if riprap potection is required at the FES

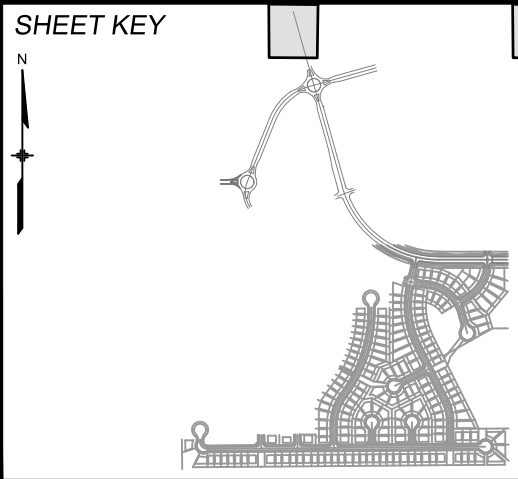
Extend profile an additional 50' on both sides. Label existing flowline slope.



Revise street or pipe design. ECM 4.3.6.A.3 requires 2 ft cover from finished grade to top of pipe.

- NOTES:
1. ALL STATION, OFFSET, AND NORTHING/EASTING VALUES ARE TO THE CENTER OF ALL STRUCTURES UNLESS OTHERWISE NOTED.
 2. PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF ALL STRUCTURES.
 3. ALL PIPE BENDS ANGLES ARE MEASURED FROM THE CENTER OF PIPE.
 4. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES.
 5. ALL RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.
 6. PIPES OF DIFFERENT SIZES ARE TO BE MATCHED TO THE CROWN OF THE INSIDE WALL OF PIPE.

REFERENCE DRAWINGS			
No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\SD17.dwg			
CTB FILE: ----			
PLOT DATE: July 2, 2019 12:48:49 PM			
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BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4" AULM. CAP PLS 10377)



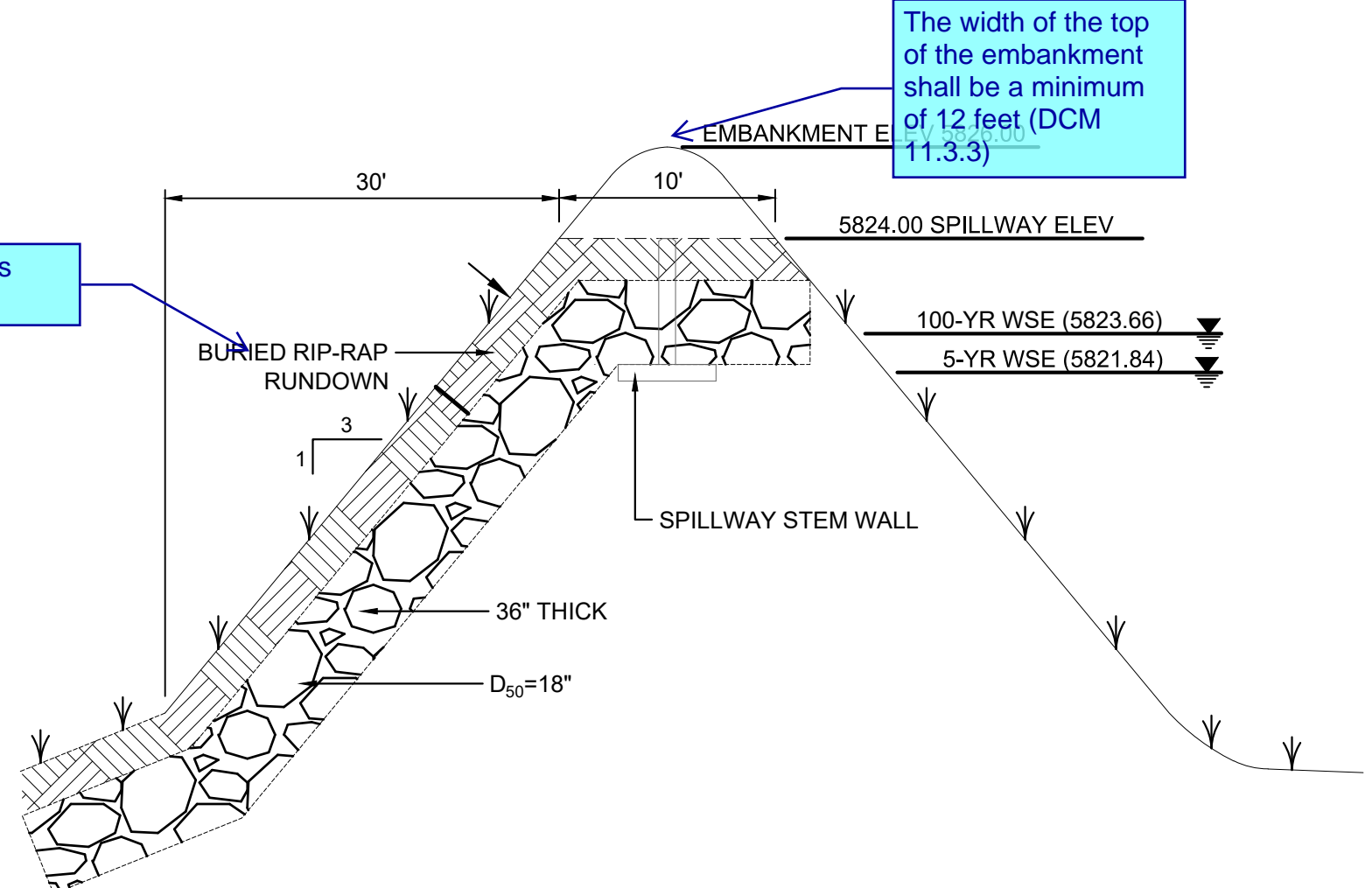
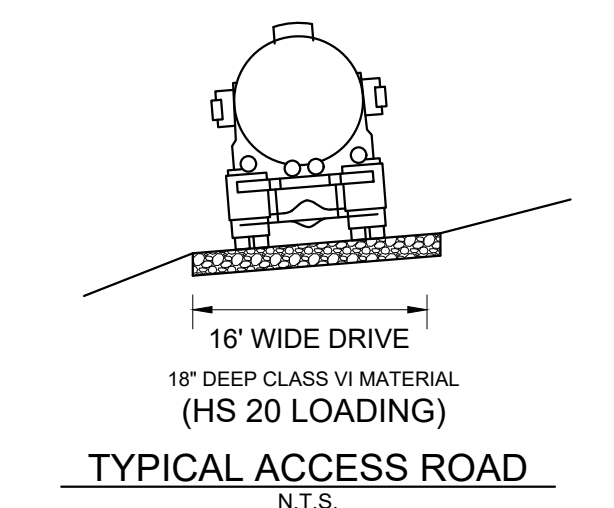
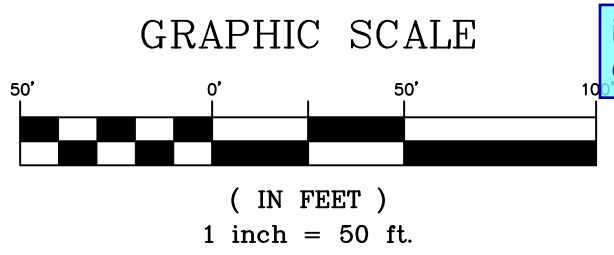
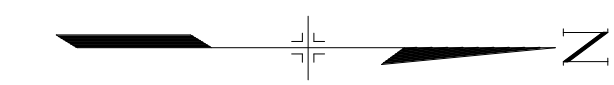
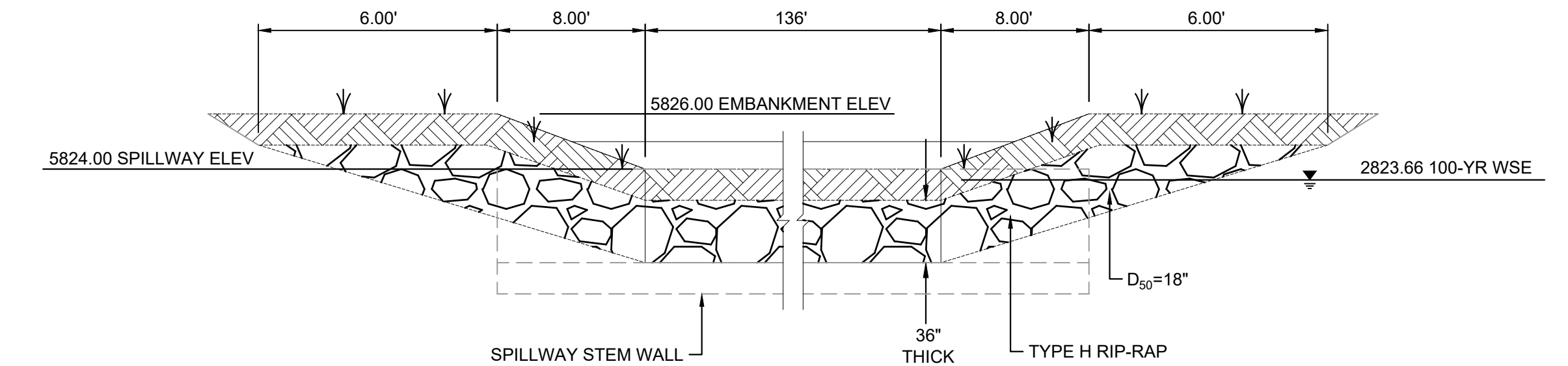
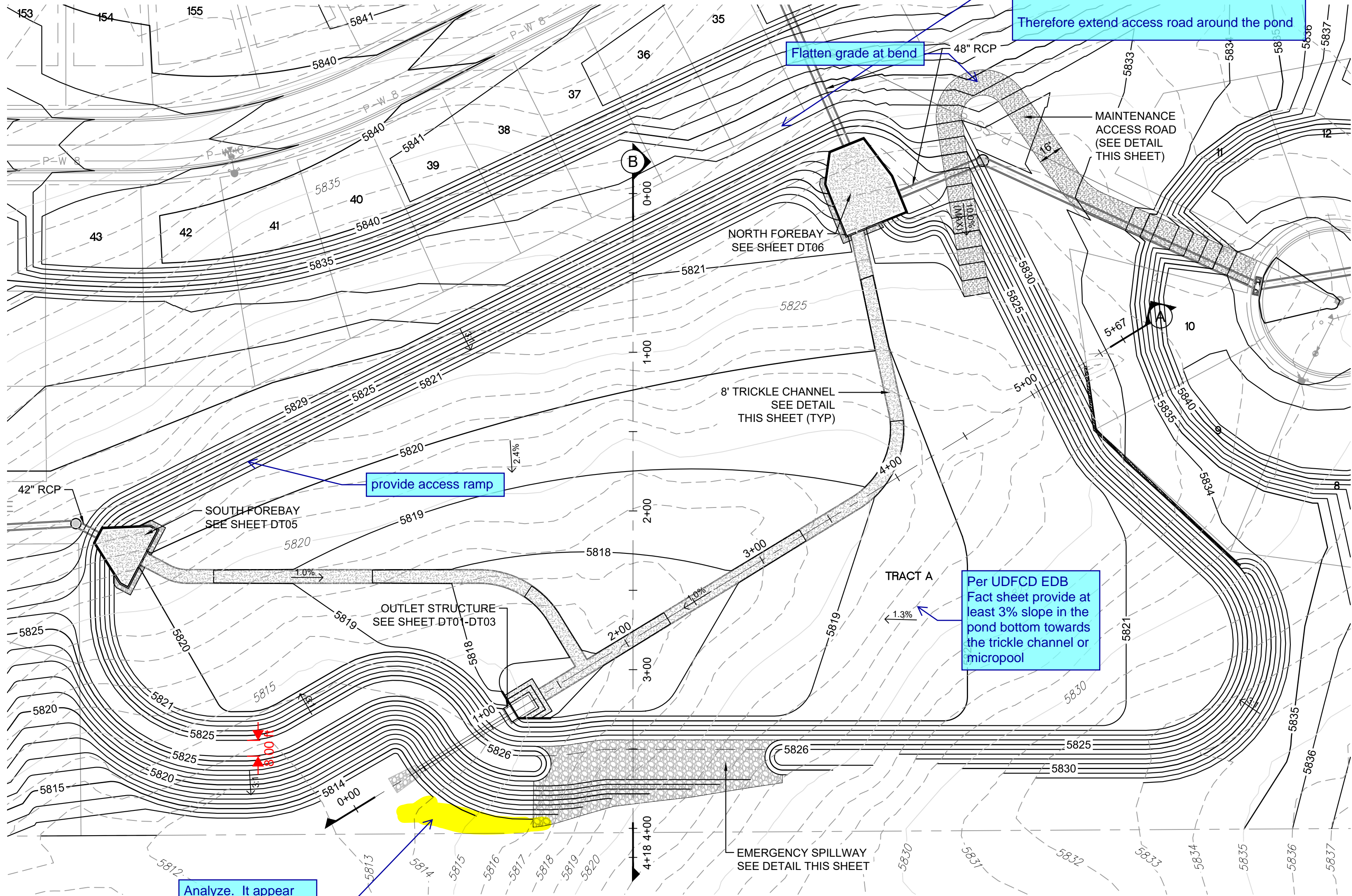
SEAL			
PRELIMINARY THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE			
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 19.886.011			

TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS			
STORM DRAIN PLAN & PROFILE			
DESIGNED BY: NMS	SCALE: 1" = 40'	DATE ISSUED: JULY, 2019	DRAWING No. SD17
CHECKED BY: NMS	VERT. 1" = 8'	SHEET 63 OF 71	



Per DCM 11.2.2 adequate safety measures shall be provided with all detention facilities. A minimum 15ft maintenance easement shall be provided around the perimeter of the impoundment and embankment areas.
Therefore extend access road around the pond

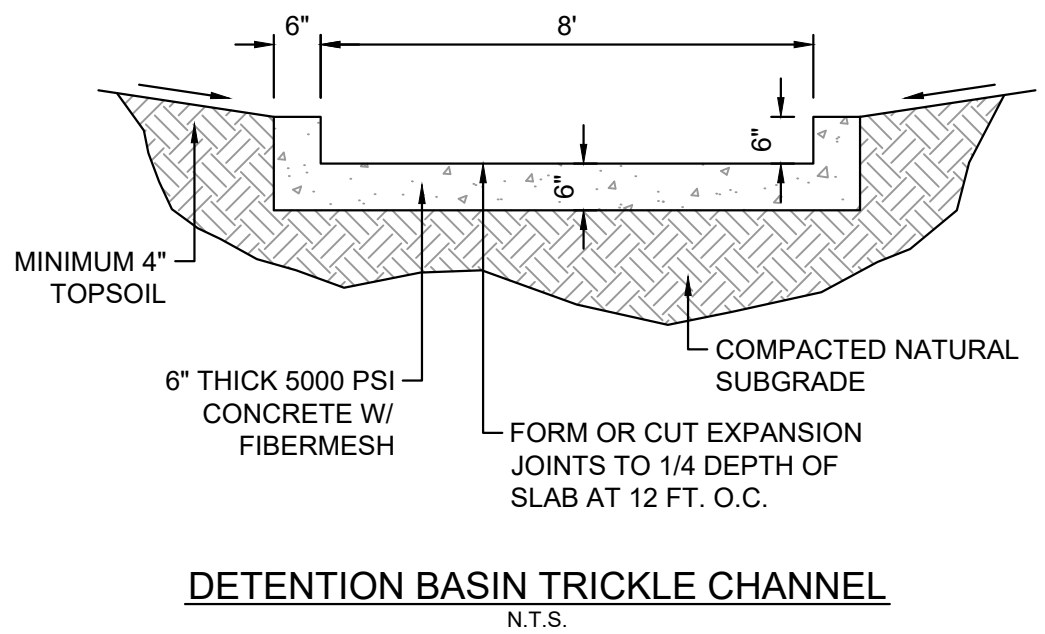
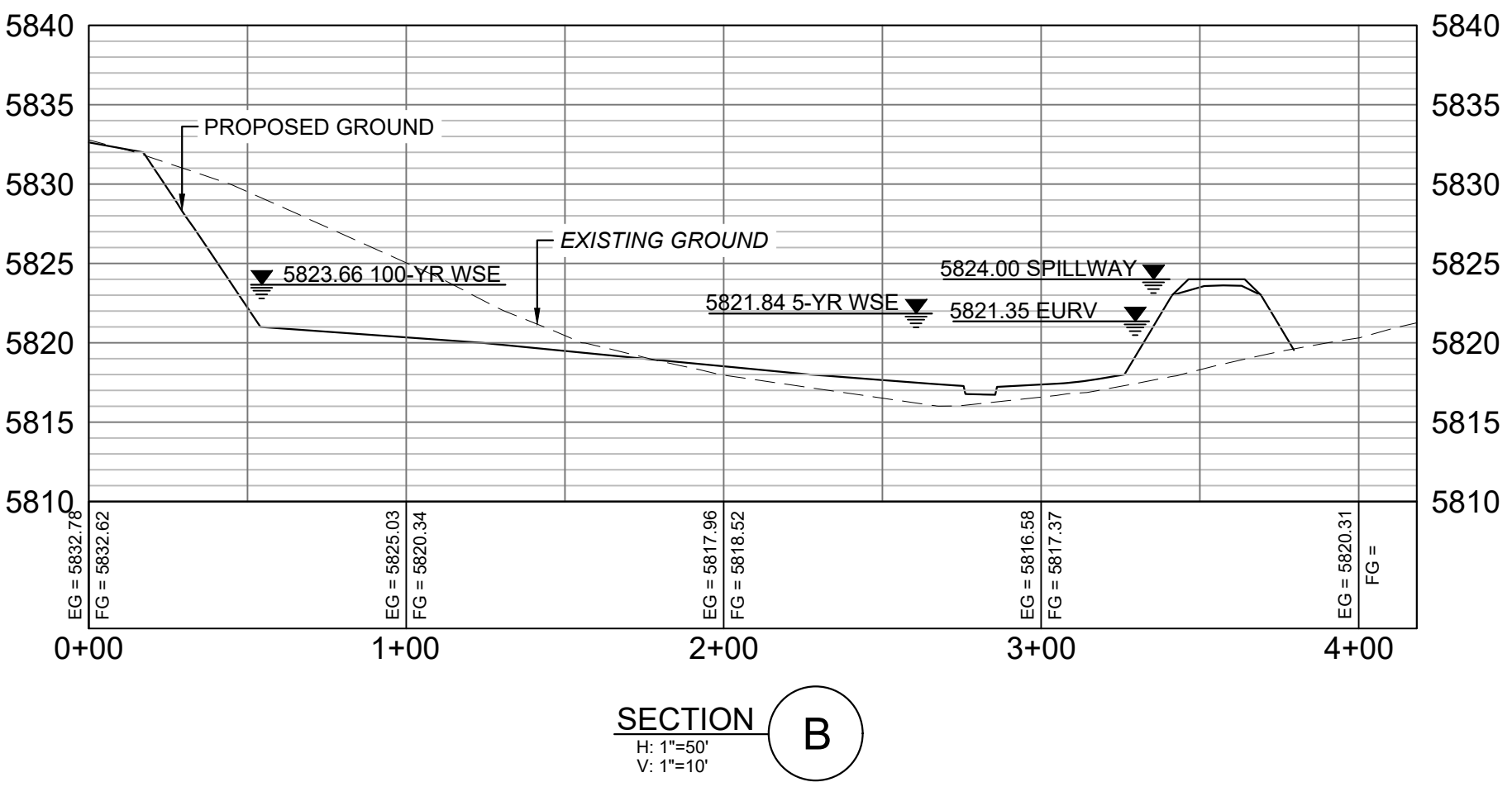
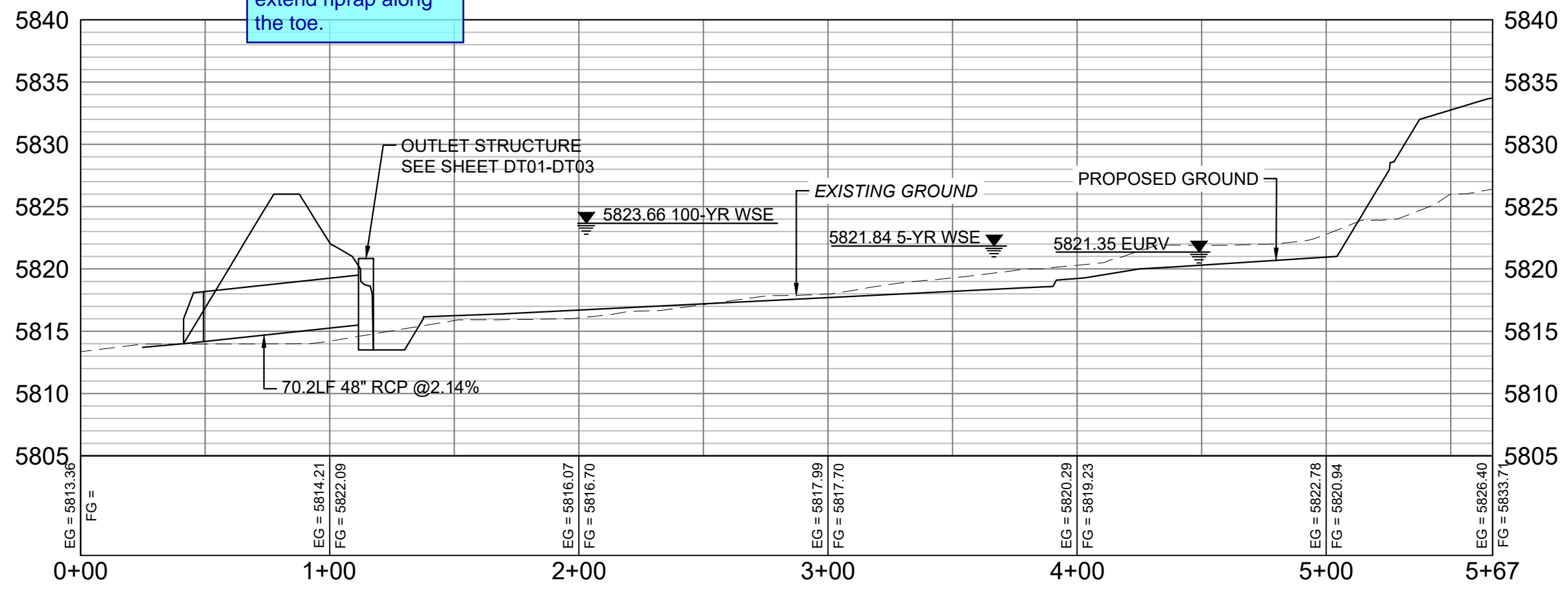
Pond design will be reviewed in detail with the resubmittal. Based on comments in the drainage report pond design may change.



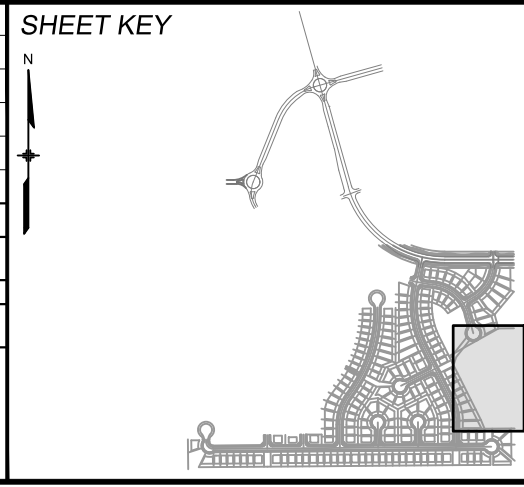
The width of the top of the embankment shall be a minimum of 12 feet (DCM 11.3.3)

identify thickness over cover

Analyze. It appear you may need to extend riprap along the toe.



REFERENCE DRAWINGS			
No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\DF01-DF04.dwg			
CTB FILE: ---			
PLOT DATE: July 2, 2019 12:50:22 PM			
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BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4" AULM. CAP PLS 10377)

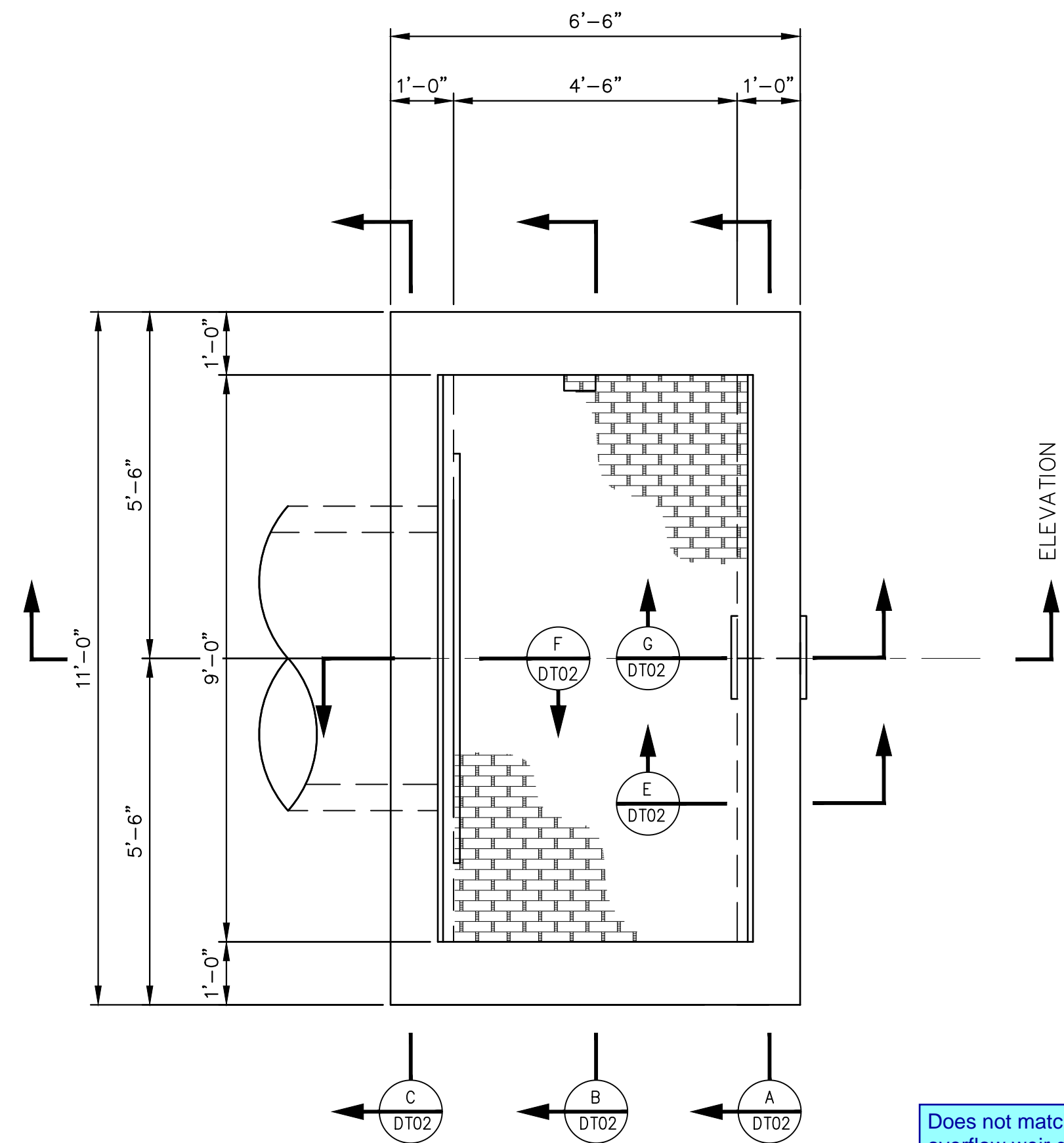


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FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

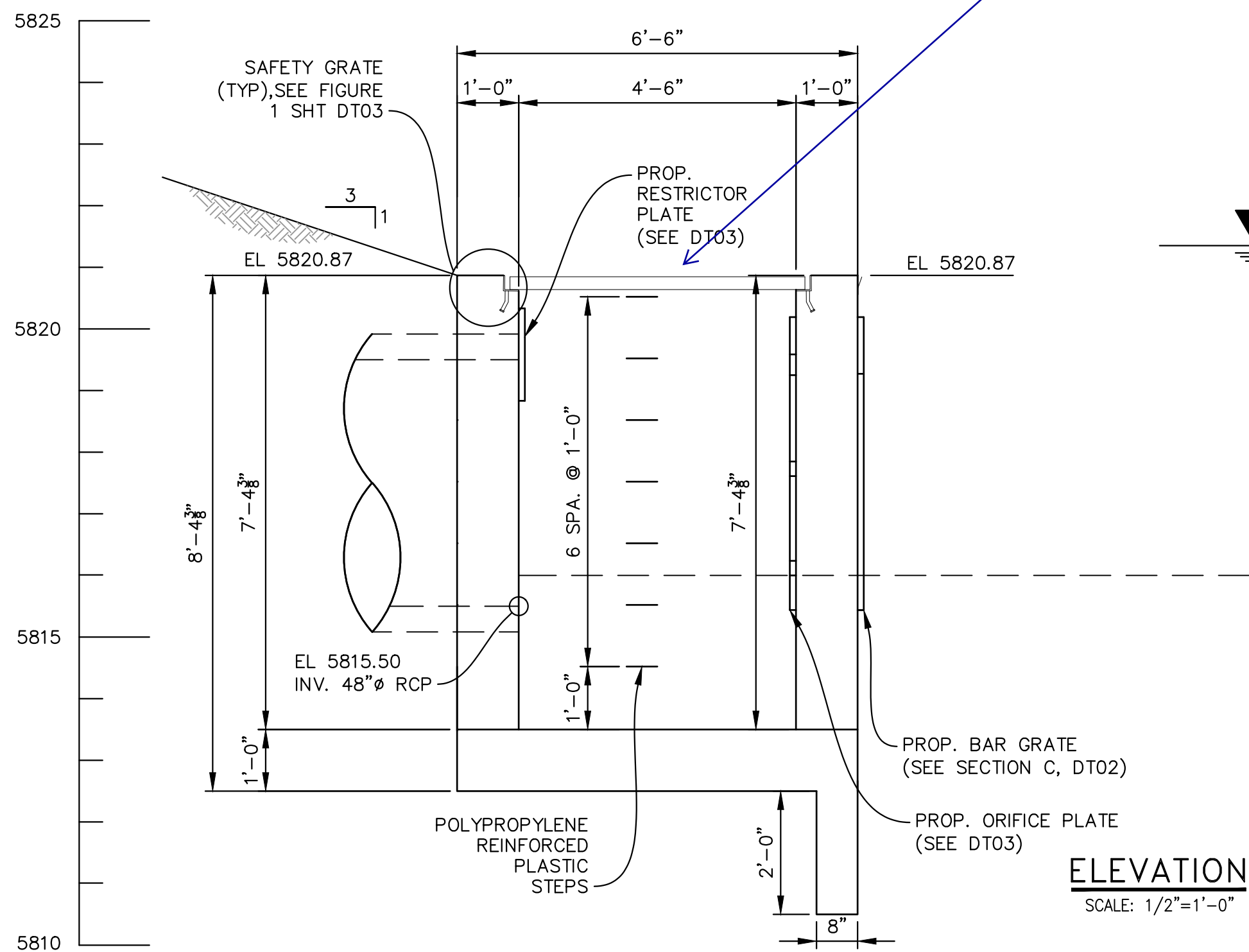
TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS			
POND LAYOUT			
DESIGNED BY: NMS	SCALE: HORIZ 1" = 50'	DATE ISSUED: JULY, 2019	DRAWING No. SD18
CHECKED BY: NMS	VERT. 1" = 10'	SHEET 64 OF 71	



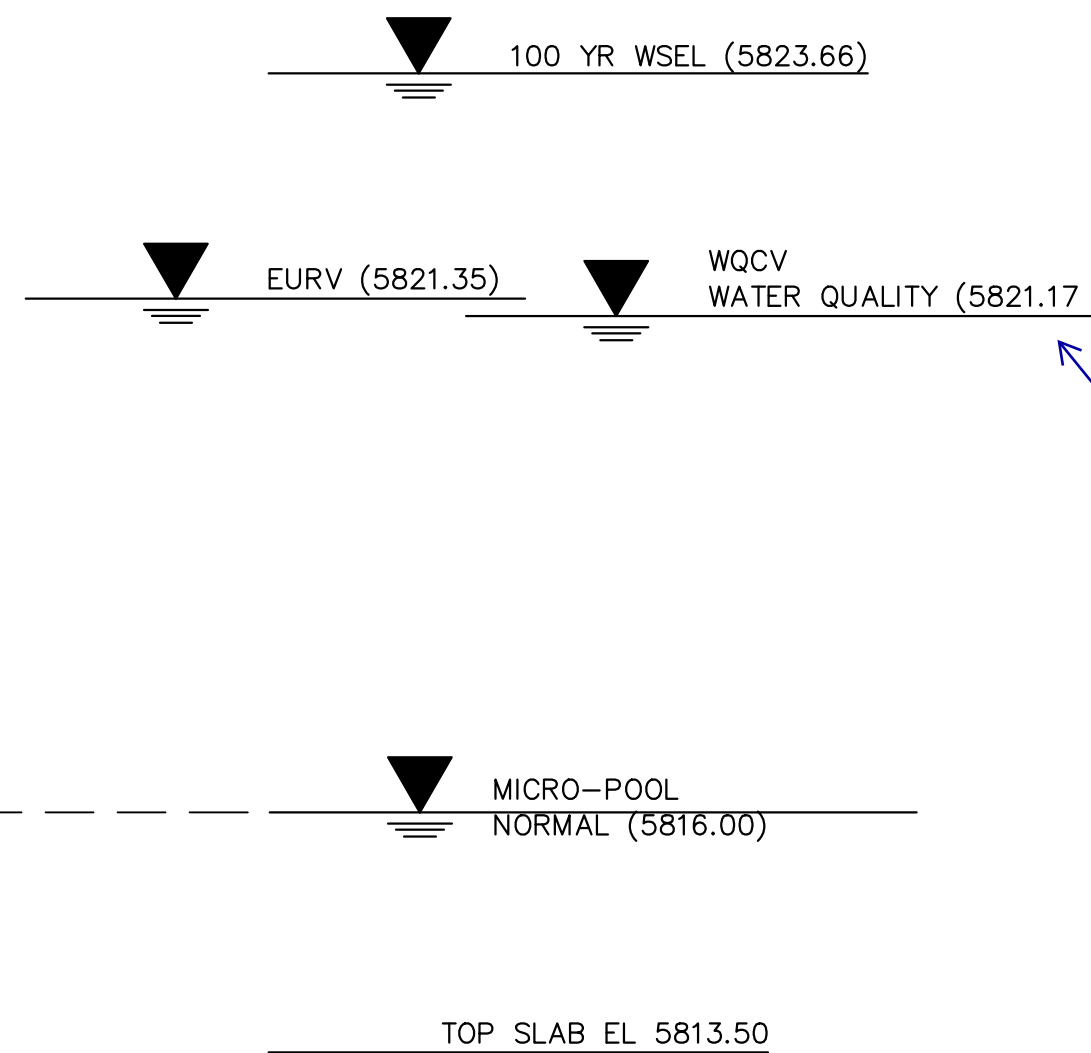
PLAN
SCALE: 1/2"=1'-0"

User Input: Overflow Weir (Dropbox) and Grate (Flat or Sloped)		
	Zone 3 Weir	Not Selected
Overflow Weir Front Edge Height, Ho =	5.10	N/A
Overflow Weir Front Edge Length =	9.00	N/A
Overflow Weir Slope =	4.00	N/A
Horiz. Length of Weir Sides =	12.50	N/A
Overflow Grate Open Area % =	60%	N/A
Debris Clogging % =	50%	N/A

Does not match the overflow weir design in the FDR



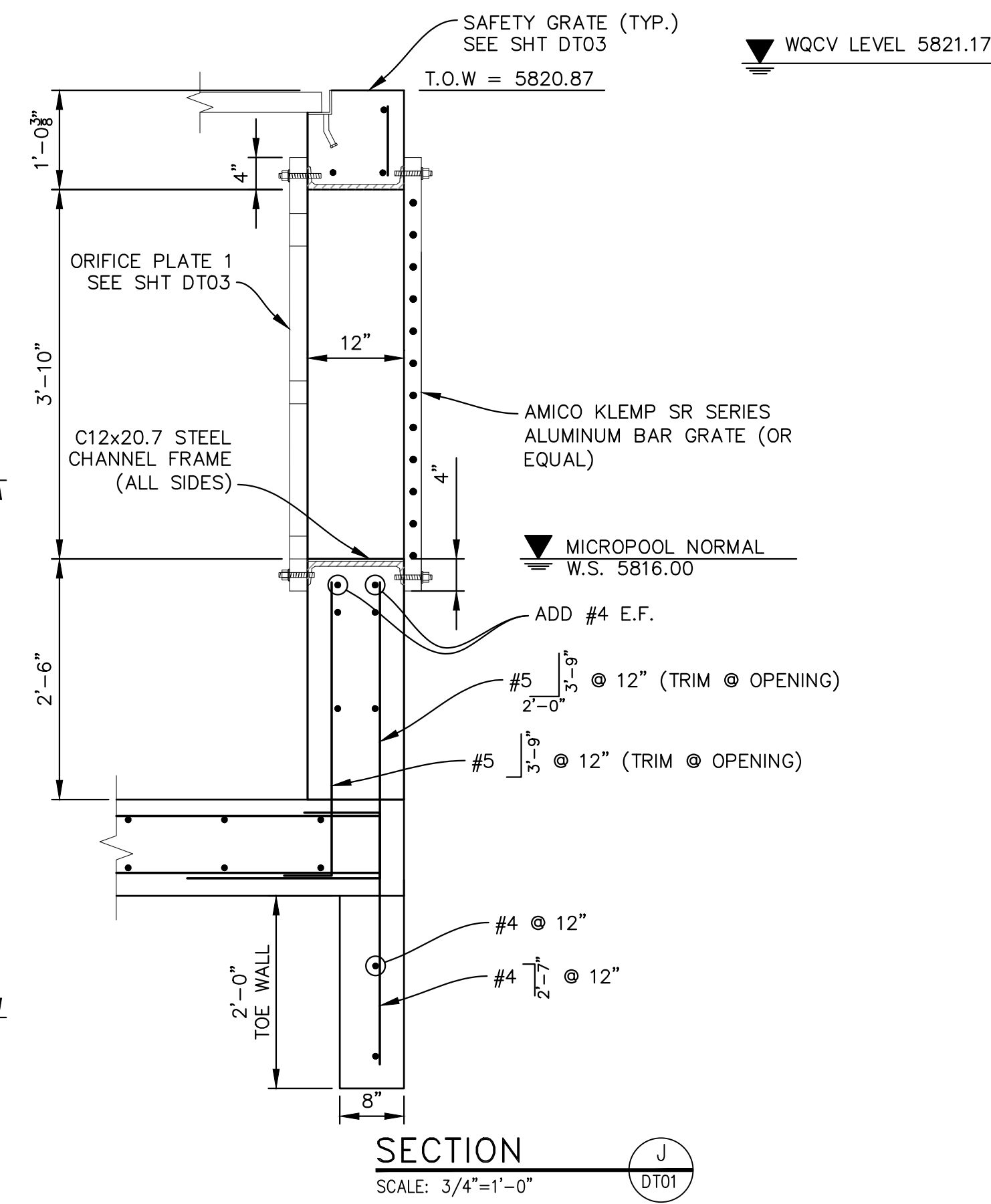
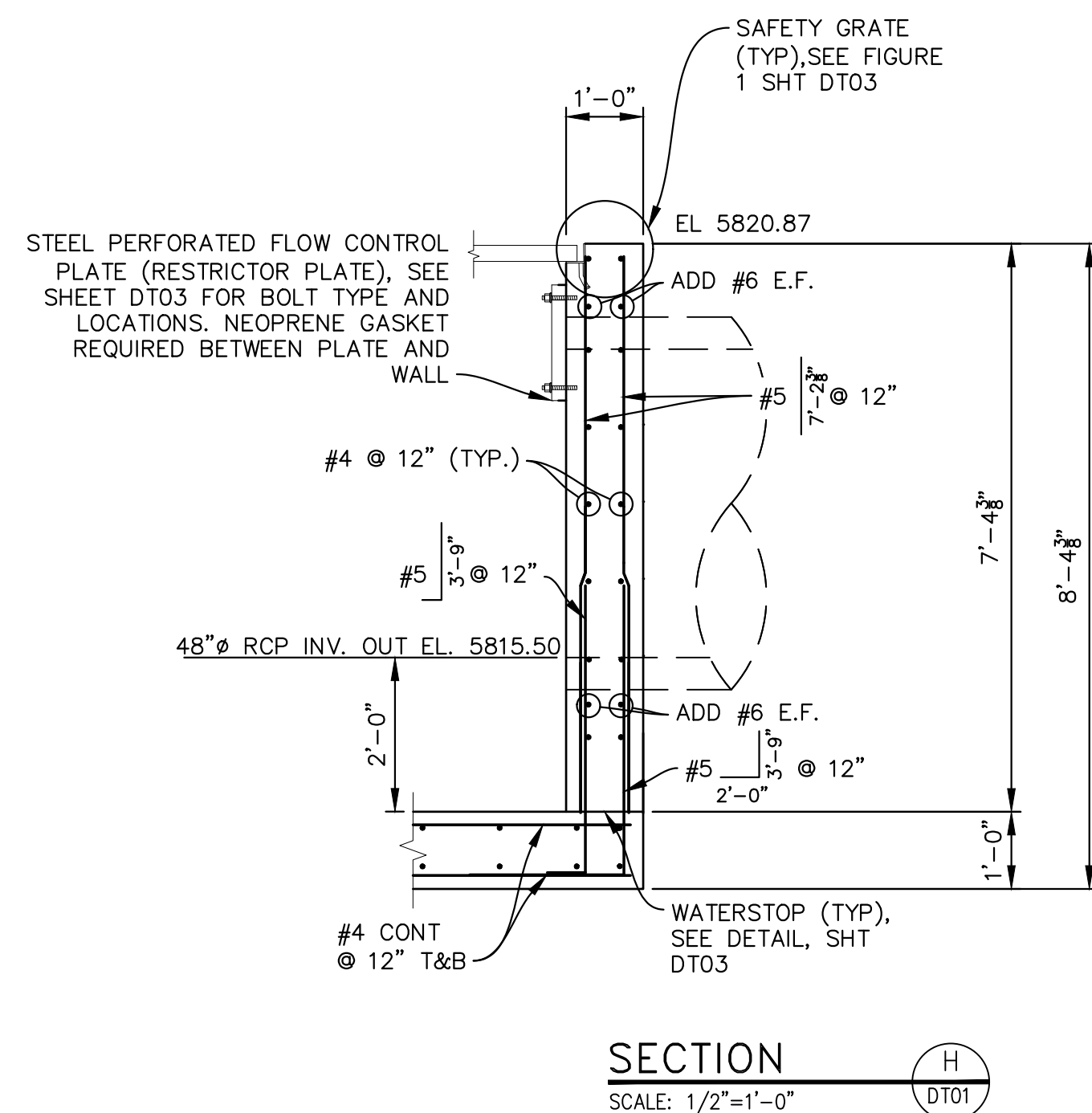
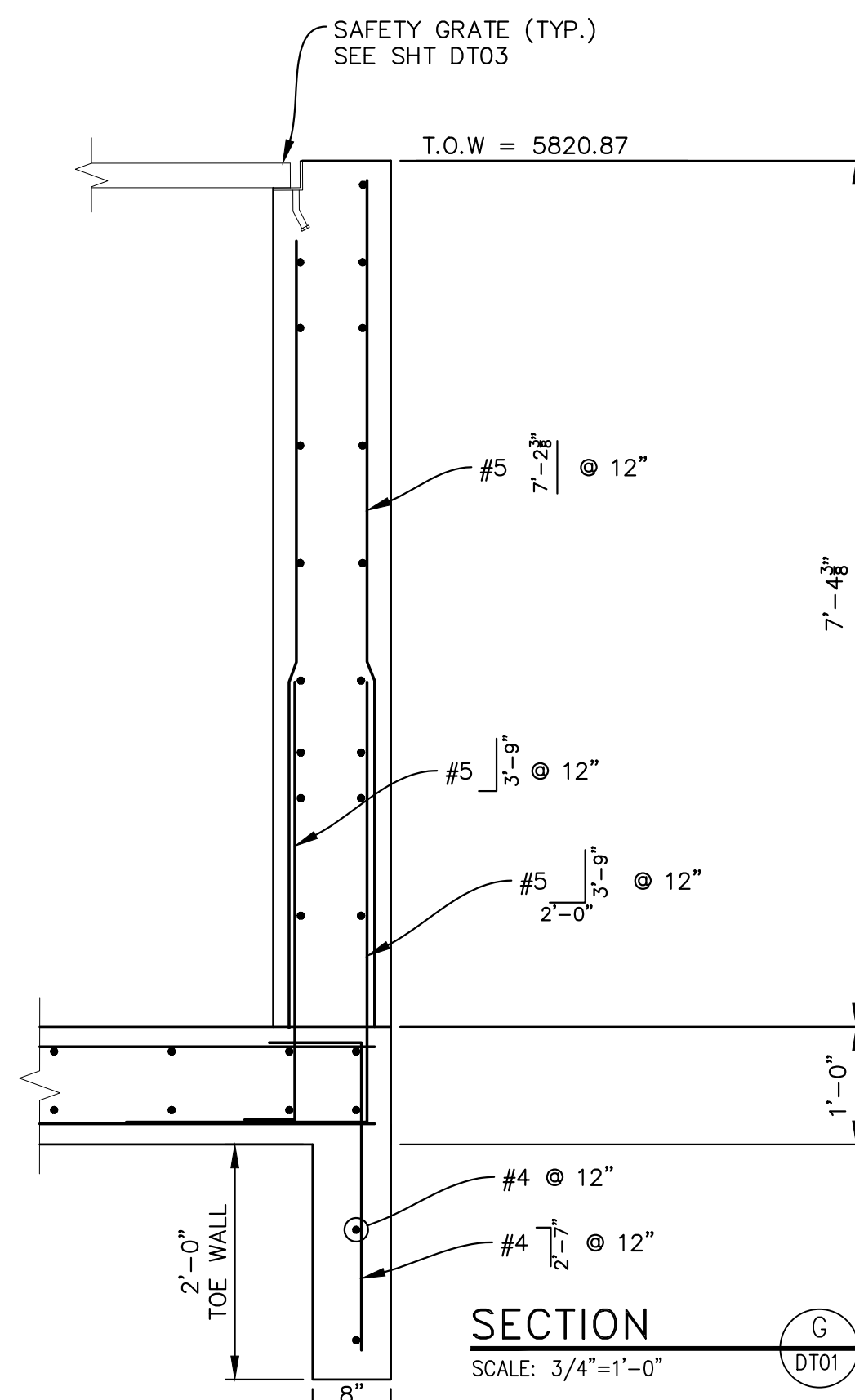
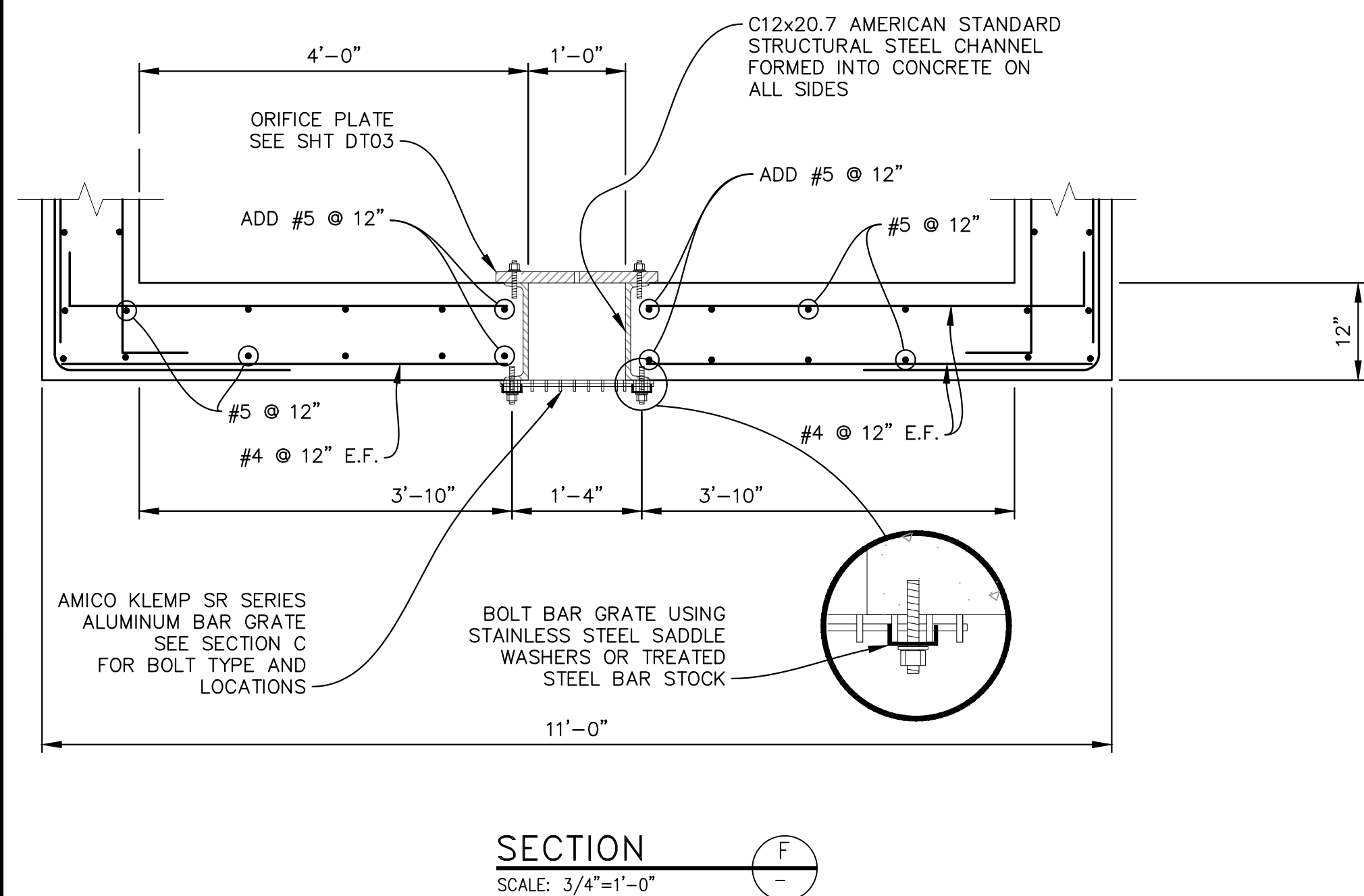
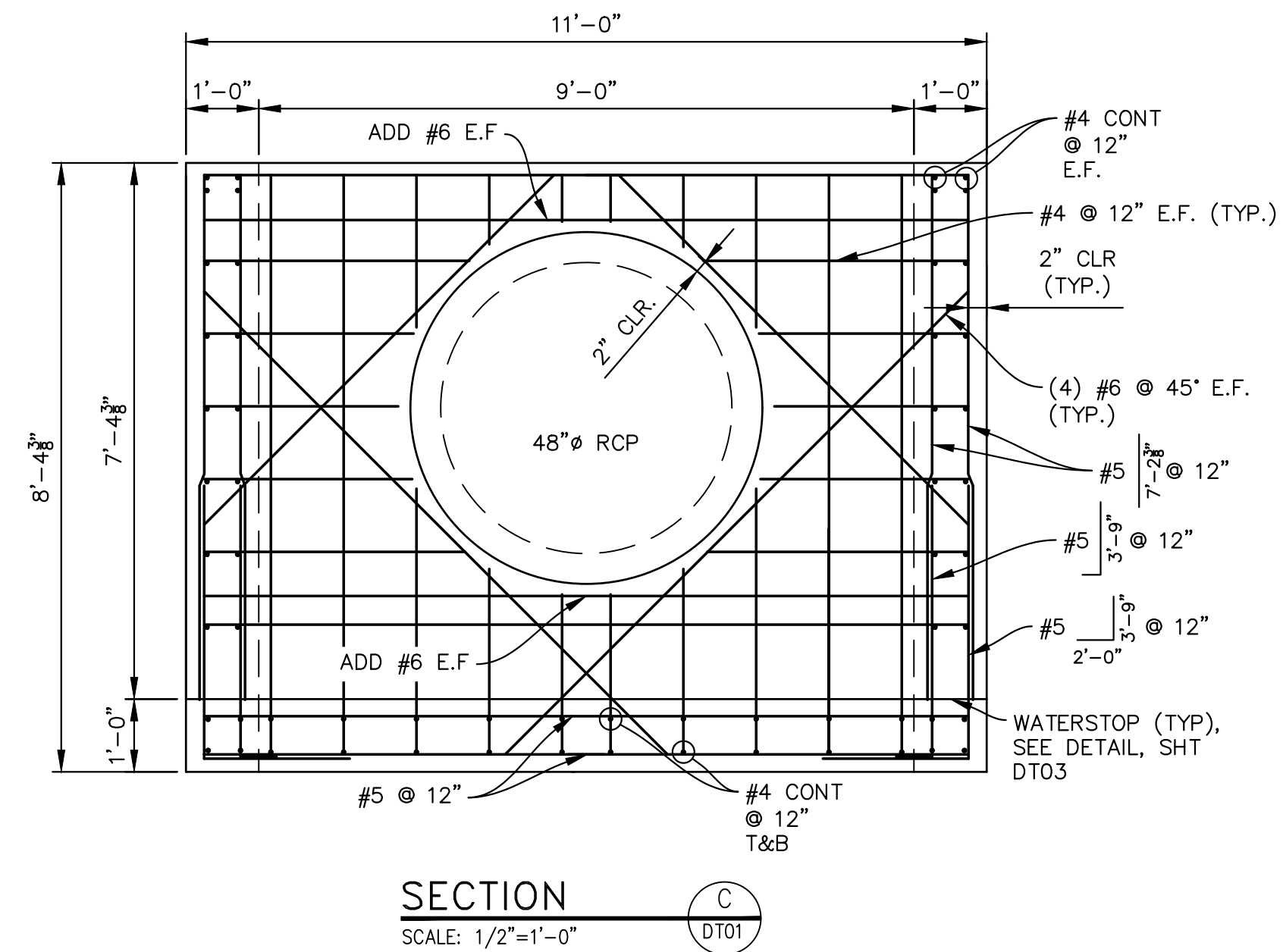
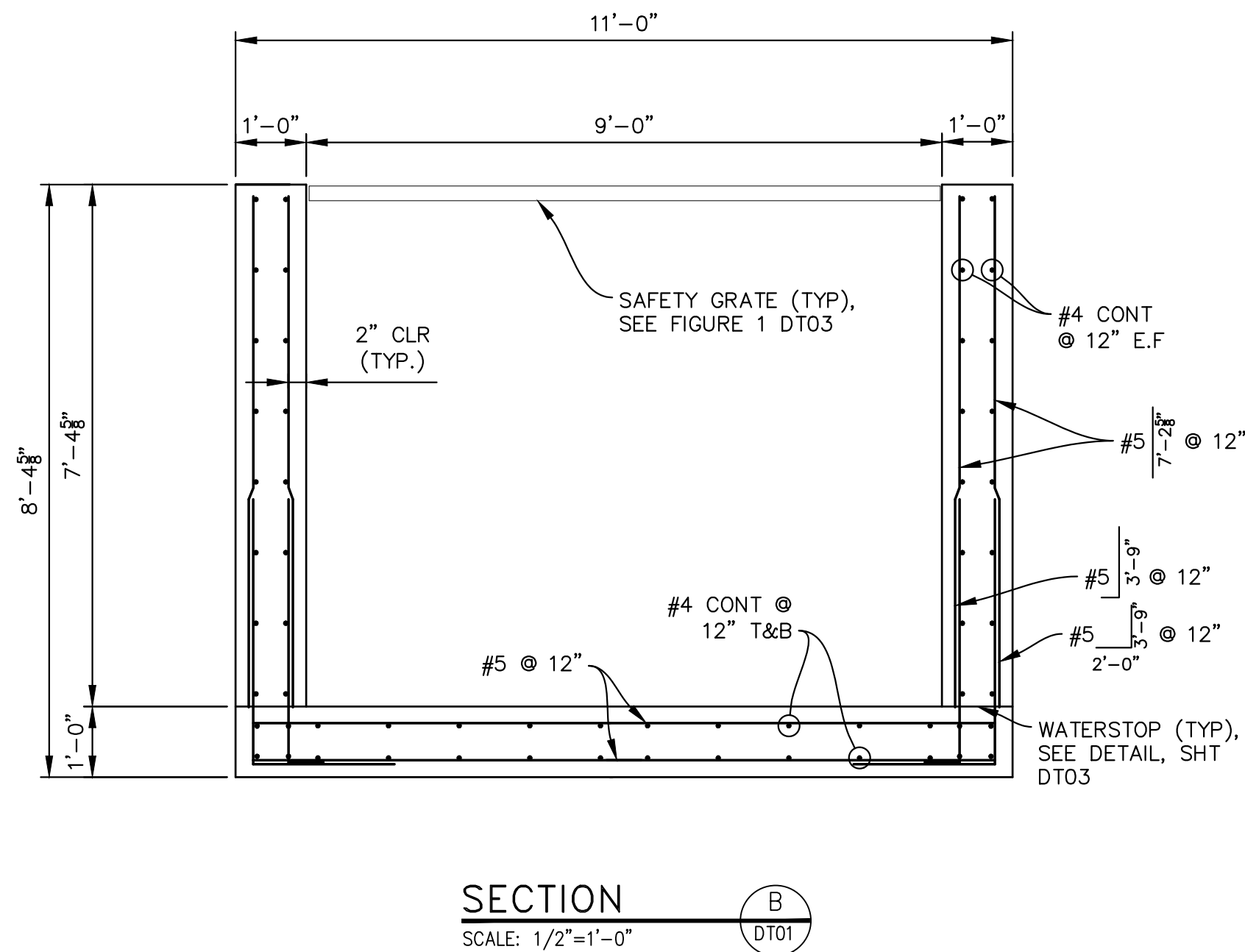
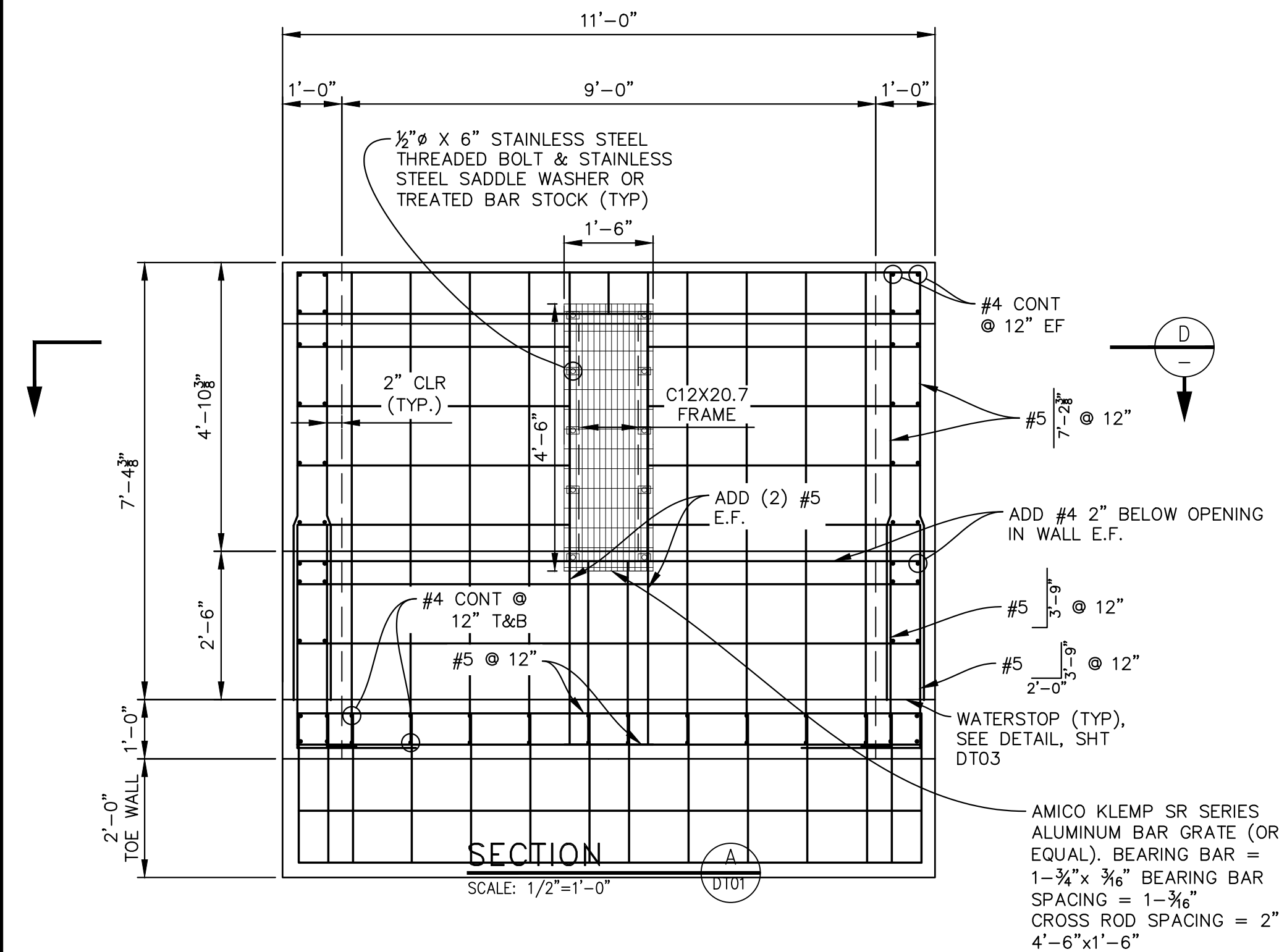
ELEVATION
SCALE: 1/2"=1'-0"



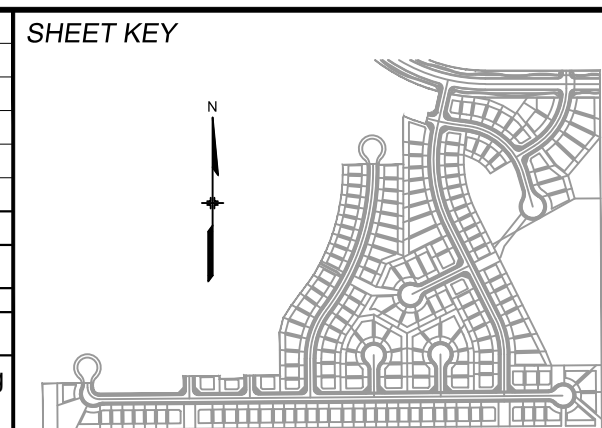
Pond. (Please note that SWMM was used to size the orifices because this pond is in series with the filtration media surface)			
	Stage (ft)	Zone Volume (ac-ft)	Outlet Type
Zone 1 (WQCV)	4.29	2.553	Orifice Plate
Zone 2 (EURV)	5.86	4.938	Orifice Plate
Zone 3 (100-year)	7.54	6.241	Weir&Pipe (Restrict)
		13.732	Total
		Calculated Parameters	
		Underdrain Orifice Area =	N/A
		Underdrain Orifice Centroid =	N/A

WQCV depth does not match the UD-Detention

REFERENCE DRAWINGS				SHEET KEY		BENCHMARK COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206 A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD. ELEVATION - 5897.89' U.S. SURVEY FT	PREPARED BY: Matrix DESIGN GROUP	SEAL PRELIMINARY THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE	TRAILS AT ASPEN RIDGE				
						BASIS OF BEARING BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4" AULM. CAP PLS 10377)			FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS				
COMPUTER FILE MANAGEMENT FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\Structures\Outlet Structure 1.dwg CTB FILE: ---- PLOT DATE: July 2, 2019 12:50:39 PM THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.									OUTLET STRUCTURE DETAILS - 1				
									FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 19.886.011	DESIGNED BY: AAC CHECKED BY: KSL	SCALE HORIZ N/A VERT. N/A	DATE ISSUED: JULY, 2019 SHEET 65 OF 71	DRAWING No. DT01



REFERENCE DRAWINGS			
No.	DATE	DESCRIPTION	BY
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BENCHMARK
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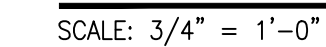
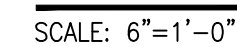
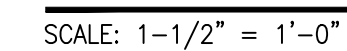
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PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS			
OUTLET STRUCTURE DETAILS - 2			
DESIGNED BY:	AAC	SCALE	DATE ISSUED:
CHECKED BY:	KSL	HORIZ. N.A. VERT. N.A.	JULY, 2019
66 OF 71			DW02



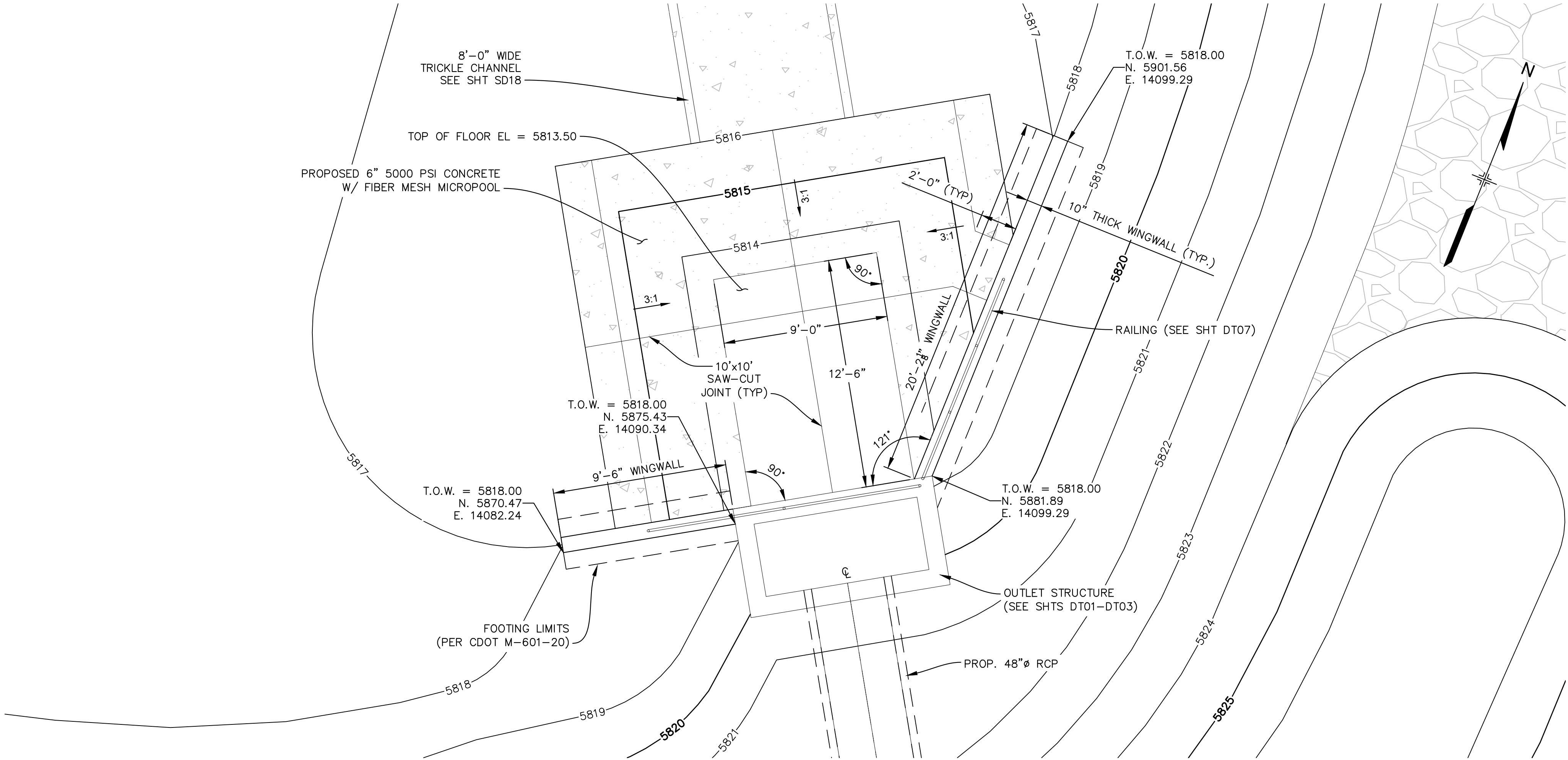
WATERSTOP DETAIL



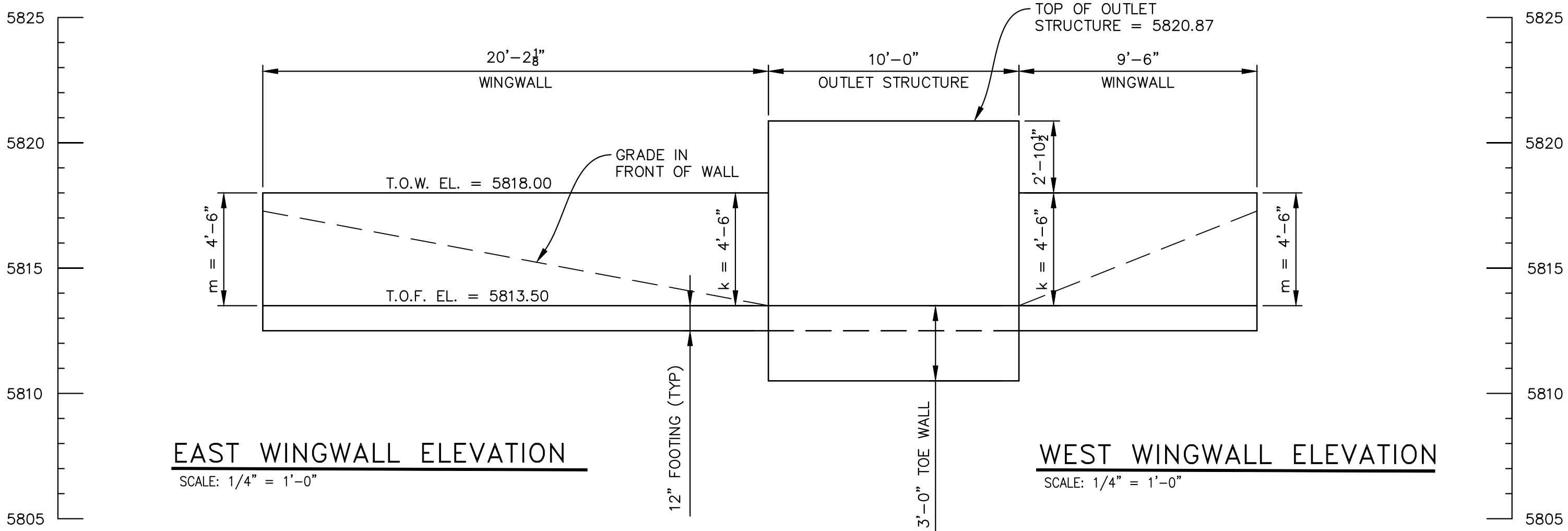
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- NOTES:
1. ALL WINGWALLS PER CDOT STANDARD M-601-20.
 2. RAIL SPACING TO NOT EXCEED 8'-0" O.C.
 3. TERMINATE RAILING WHERE FALL HEIGHT IS LESS THAN 30".
 4. LIMIT GAP IN ADJACENT RAILING POSTS TO MAXIMUM OF 4".

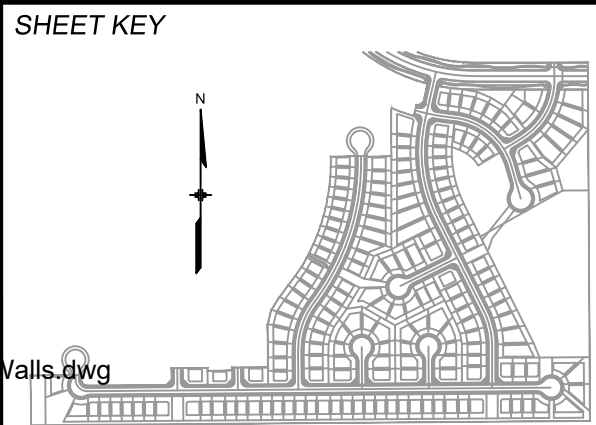


OUTLET STRUCTURE PLAN
SCALE: 1/4" = 1'-0"



* RAILING NOT SHOW FOR CLARITY

REFERENCE DRAWINGS			
No.	DATE	DESCRIPTION	BY
REVISIONS			
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\Structures\Outlet Structure Wing Walls.dwg			
CTB FILE: ----			
PLOT DATE: July 2, 2019 12:51:19 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			



BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4" AULM. CAP PLS 10377)

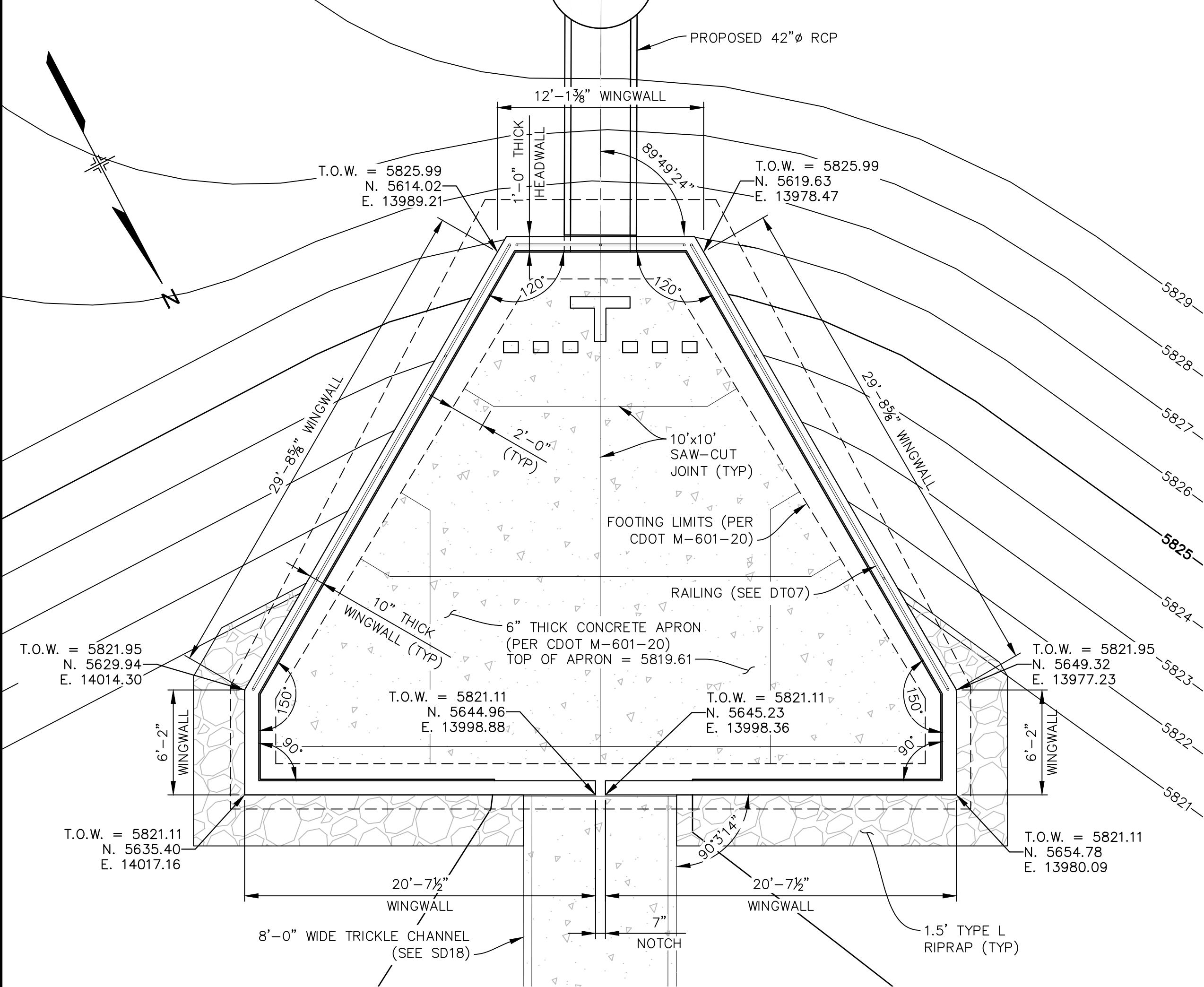


SEAL

PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

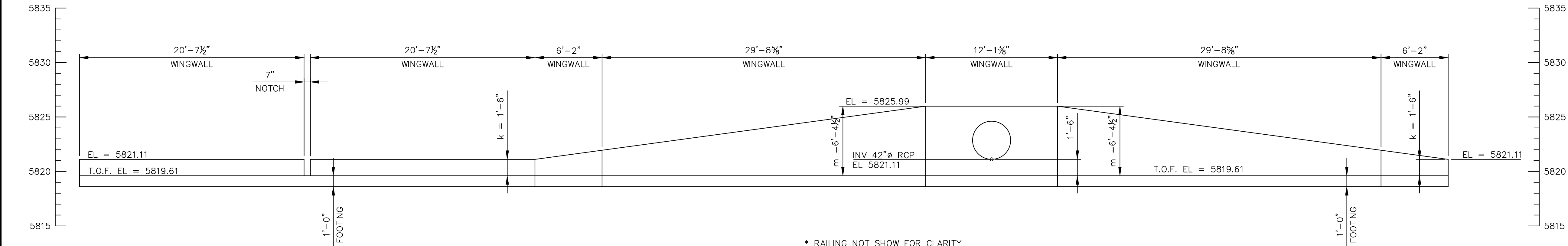
TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS			
OUTLET STRUCTURE DETAILS - 4			
DESIGNED BY:	AAC	SCALE	DATE ISSUED:
DRAWN BY:	AAC	HORIZ	JULY, 2019
CHECKED BY:	KSL	VERT.	68 OF 71
			DRAWING No. DT04



SOUTH FOREBAY PLAN

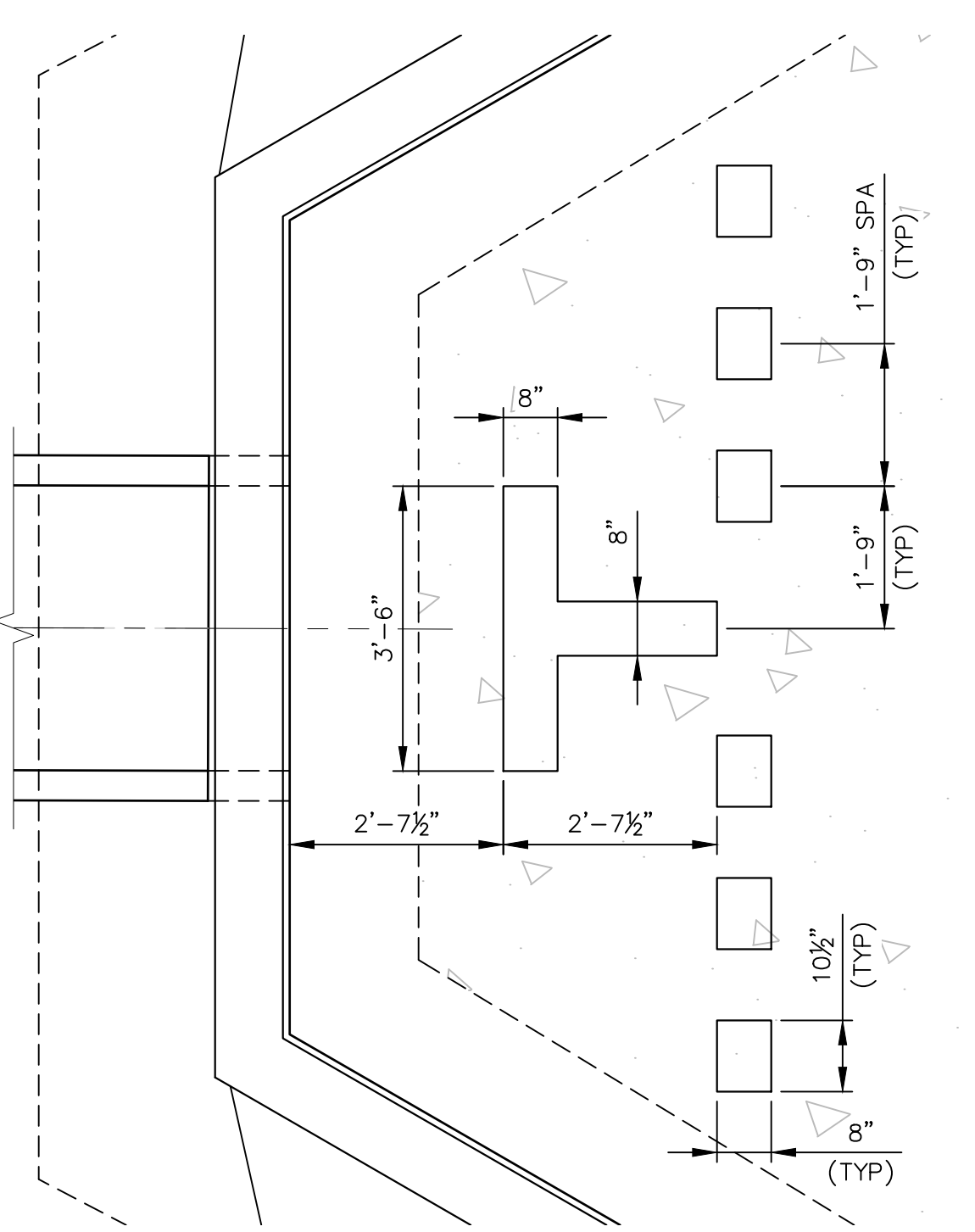
SCALE: 3/16"= 1'-0"

VOLUME PROVIDED = 1,290 cf
VOLUME REQUIRED = 634 cf



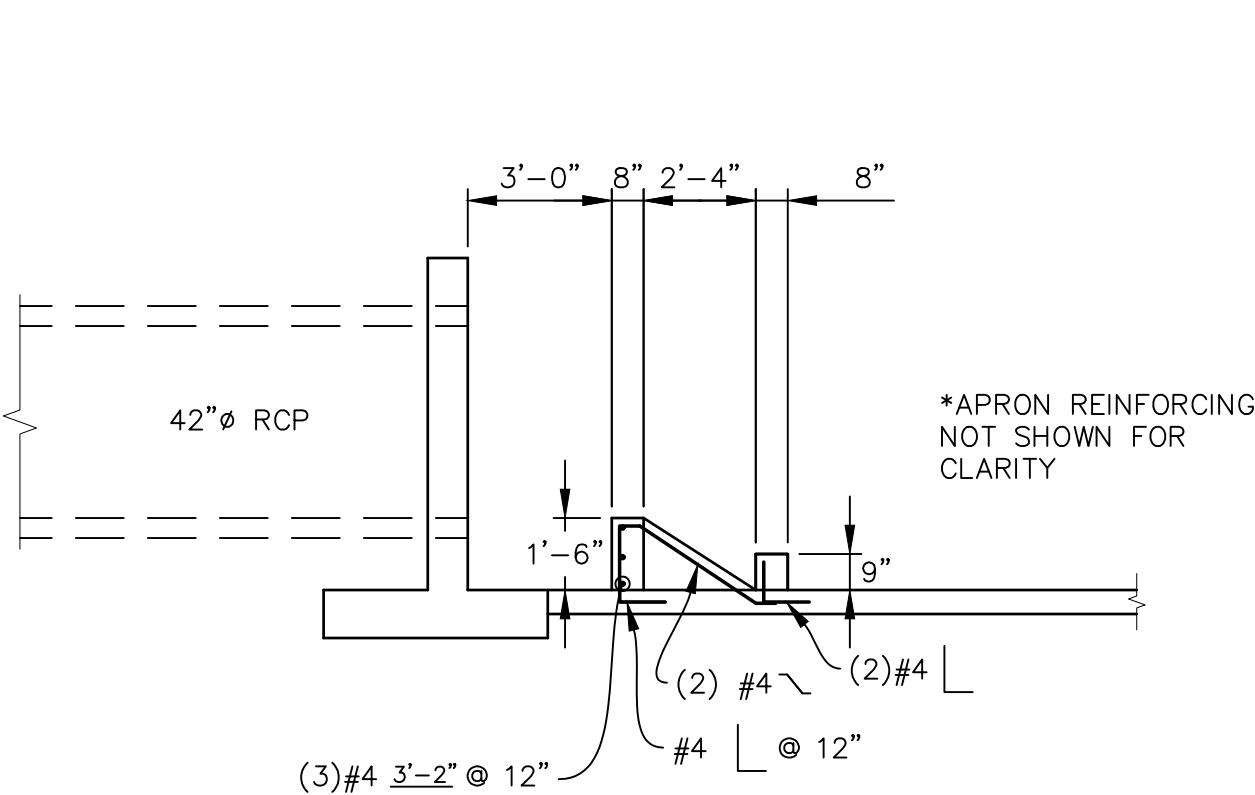
EAST WINGWALL ELEVATION

SCALE: 3/16"= 1'-0"



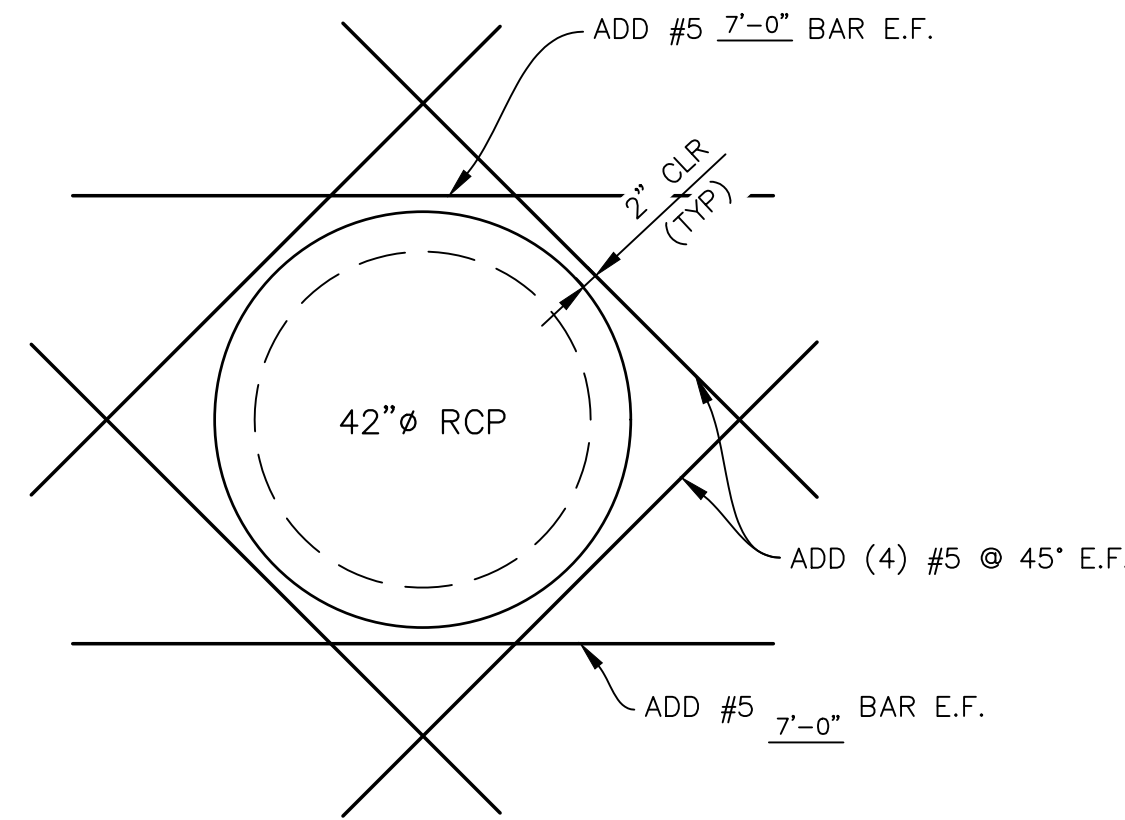
TYPICAL DISSIPATION BLOCK LAYOUT

SCALE: 1/2"= 1'-0"



TYPICAL DISSIPATION BLOCK ELEVATION

SCALE: 1/2"= 1'-0"

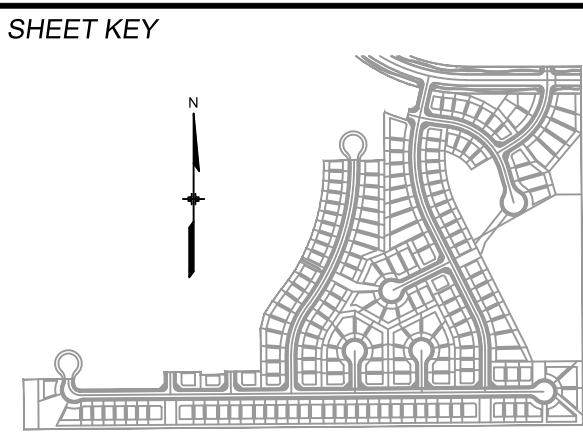


WINGWALL PENETRATION DETAIL

SCALE: 1/2"= 1'-0"

- NOTES:
1. ALL WINGWALLS PER CDOT STANDARD M-601-20.
 2. 1'-6" WIDE NOTCH TO EXTEND TO TOP OF APRON.
 3. RAIL SPACING TO NOT EXCEED 8'-0" O.C.
 4. TERMINATE RAILING WHERE FALL HEIGHT IS LESS THAN 30".
 5. LIMIT GAP IN ADJACENT RAILING POSTS TO MAXIMUM OF 4".

REFERENCE DRAWINGS			
No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\19.886.011 (Trails at Aspen Ridge - F1)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\Structures\South Forebay.dwg			
CTB FILE: ----			
PLOT DATE: July 2, 2019 12:51:46 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			



BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2" AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4" AULM. CAP PLS 10377)

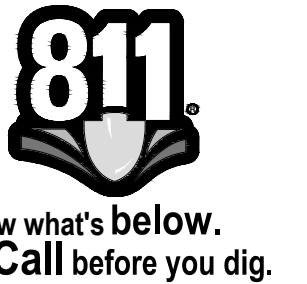


SEAL

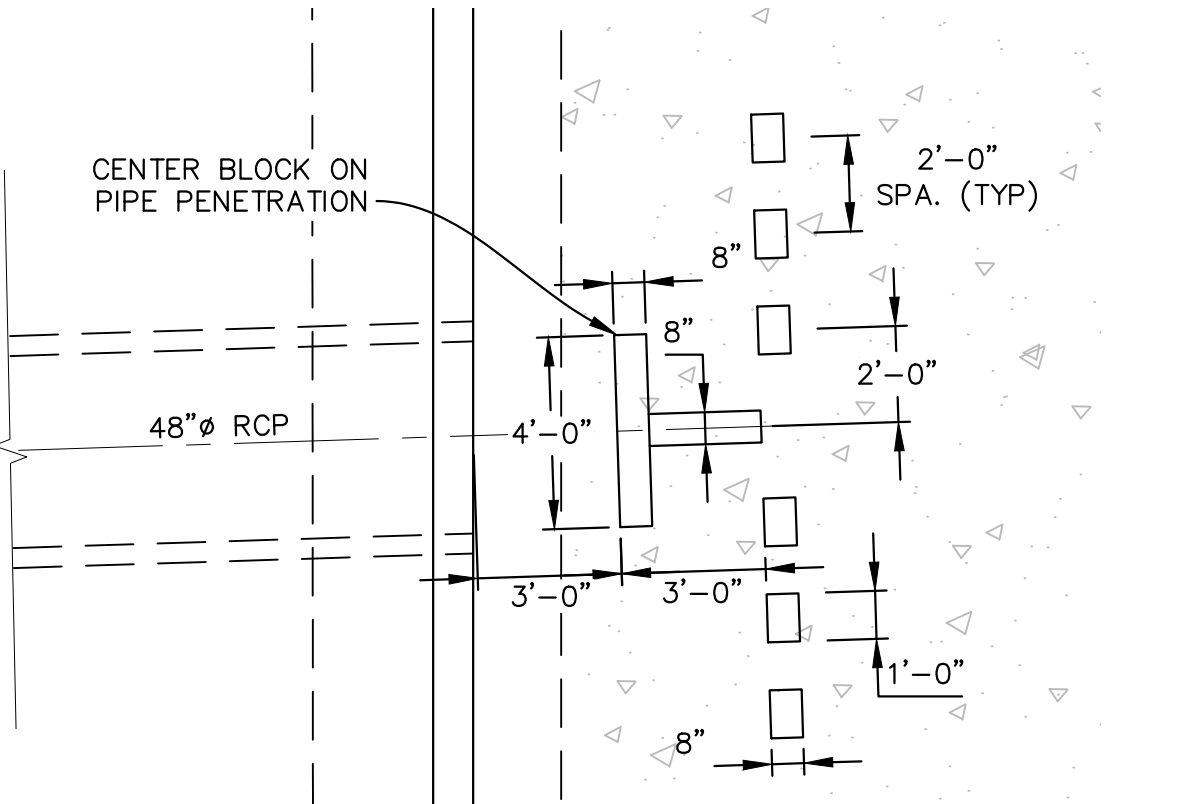
PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.011

TRAILS AT ASPEN RIDGE			
FILING NO. 1 ROADWAY & STORM IMPROVEMENT PLANS			
SOUTH FOREBAY			
DESIGNED BY:	AAC	SCALE	DATE ISSUED:
DRAWN BY:	AAC	HORIZ 3/16"= 1'	JULY, 2019
CHECKED BY:	KSL	VERT. N.A.	SHEET 69 OF 71
			DRAWING No. DT05

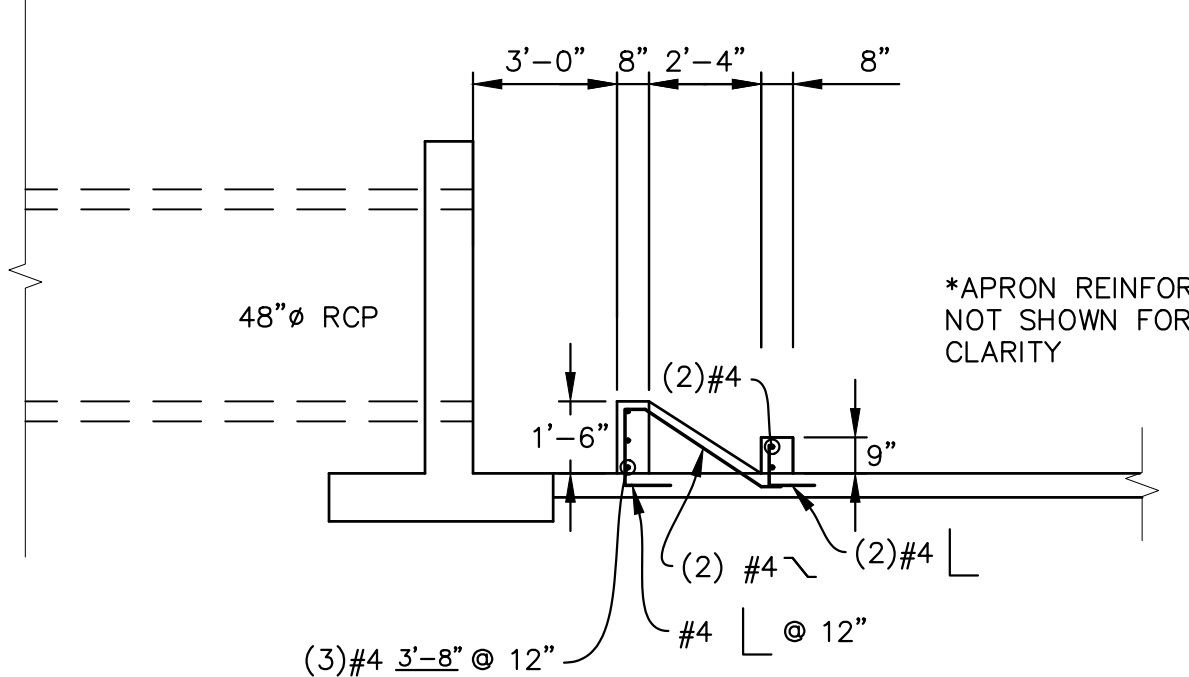


- NOTES:
1. ALL WINGWALLS PER CDOT STANDARD M-601-20.
 2. 1'-6" WIDE NOTCH TO EXTEND TO TOP OF APRON.
 3. RAIL SPACING TO NOT EXCEED 8'-0" O.C.
 4. TERMINATE RAILING WHERE FALL HEIGHT IS LESS THAN 30".
 5. LIMIT GAP IN ADJACENT RAILING POSTS TO MAXIMUM OF 4".



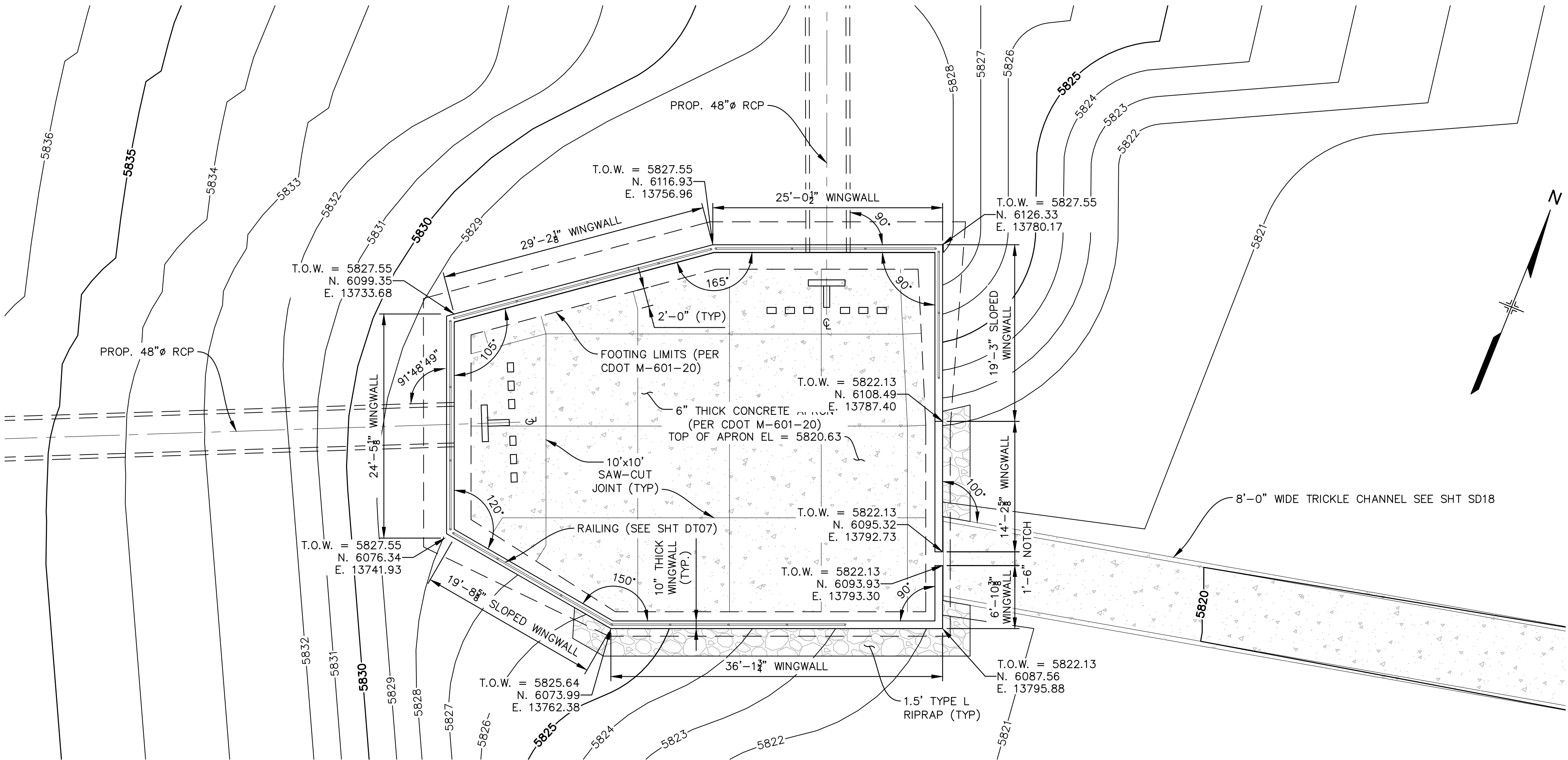
TYPICAL DISSIPATION BLOCK LAYOUT

SCALE: 1/2"= 1'-0"



TYPICAL DISSIPATION BLOCK ELEVATION

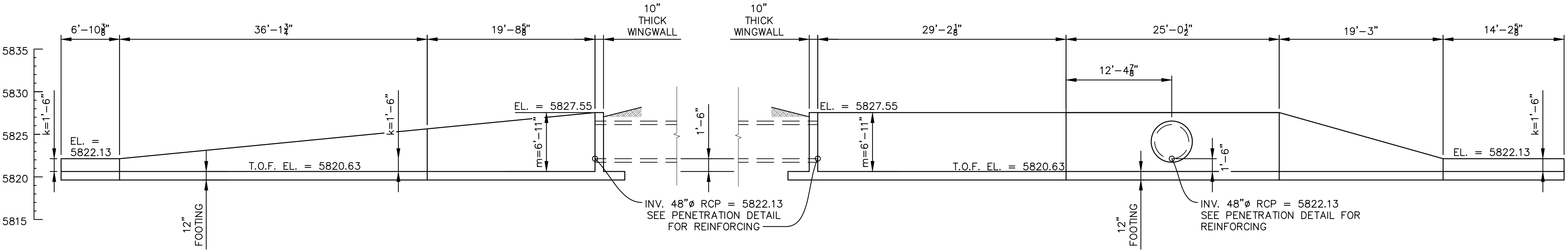
SCALE: 1/2"= 1'-0"



NORTH FOREBAY PLAN

SCALE: 1/8"= 1'-0"

VOLUME PROVIDED = 2,867 cf
VOLUME REQUIRED = 2,702 cf

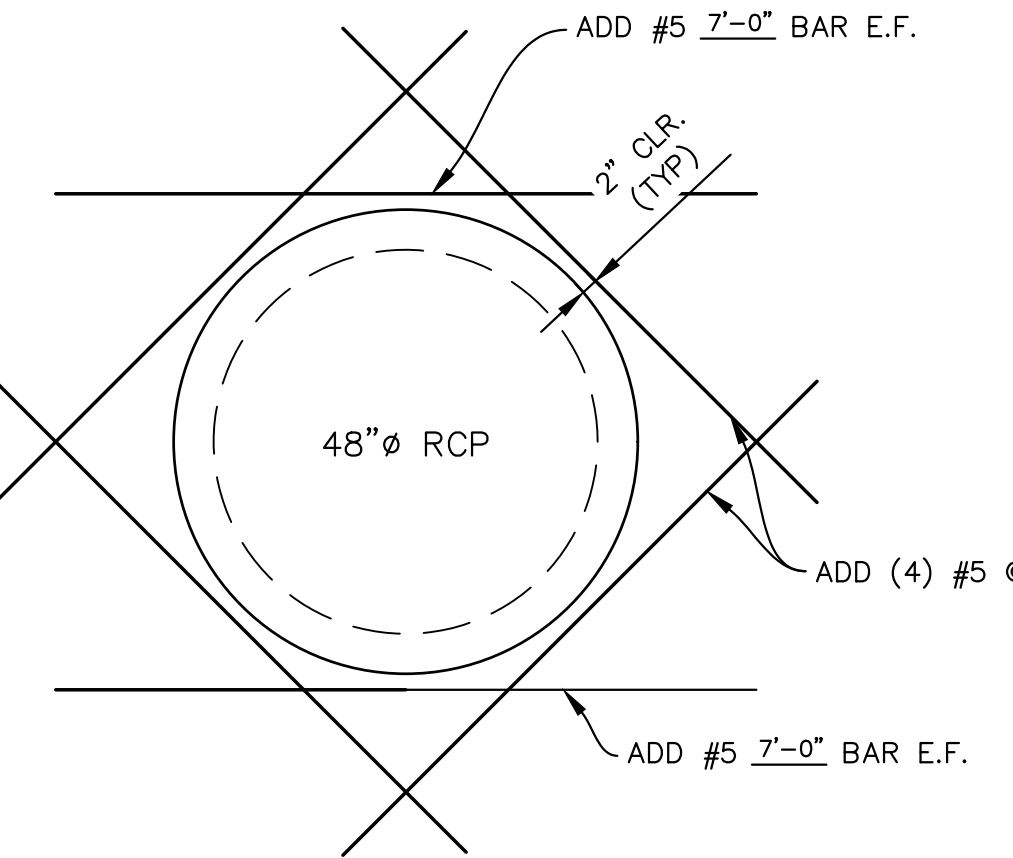


SOUTH WINGWALL ELEVATION

SCALE: 1/8"= 1'-0"

NORTH WINGWALL ELEVATION

SCALE: 1/8"= 1'-0"



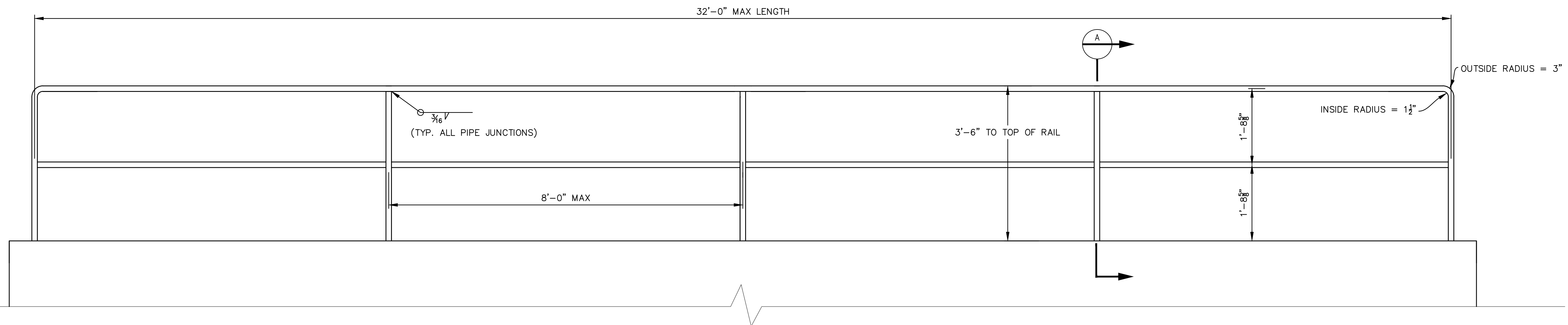
WINGWALL PENETRATION DETAIL

SCALE: 1/2"= 1'-0"

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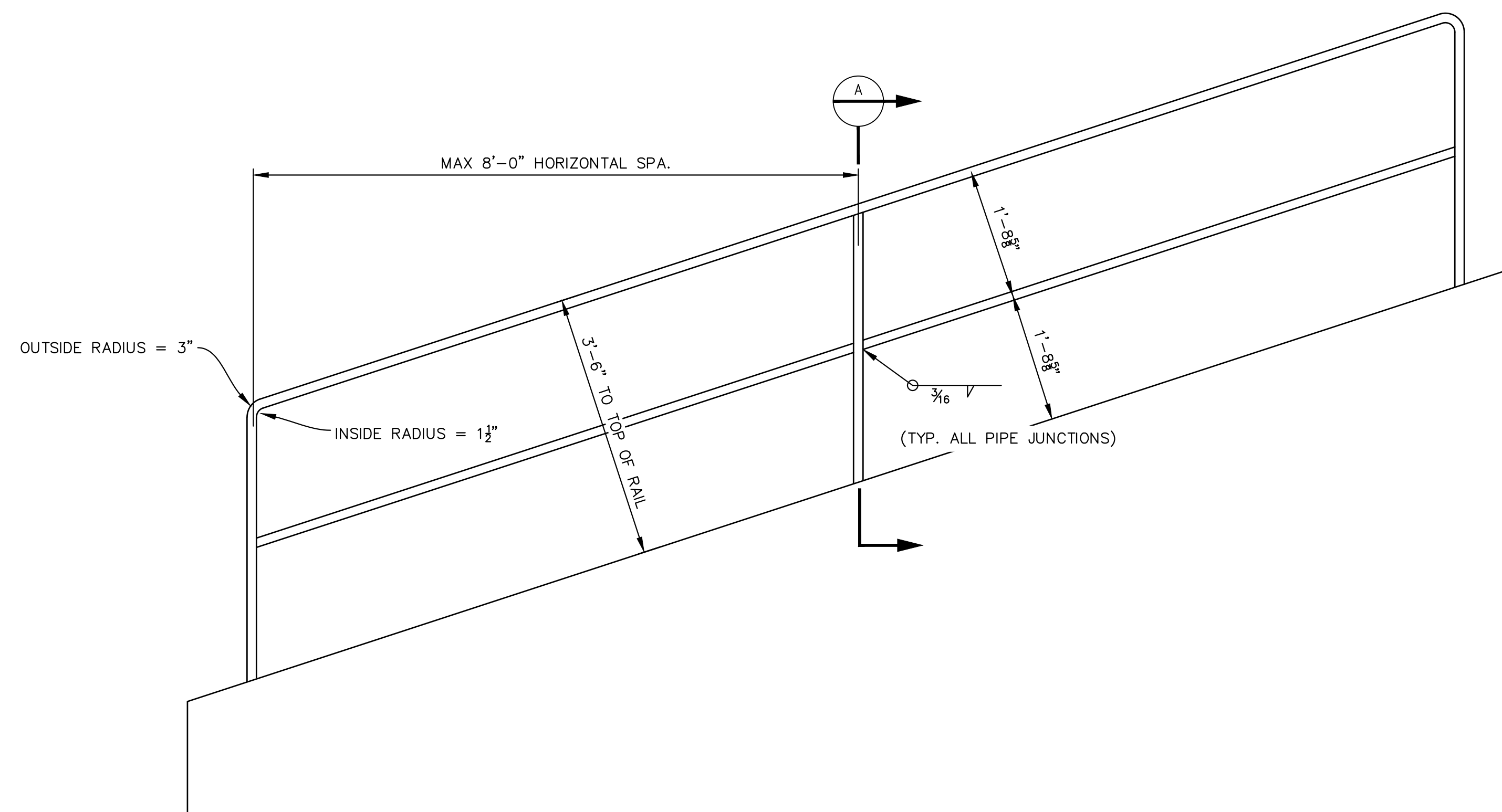


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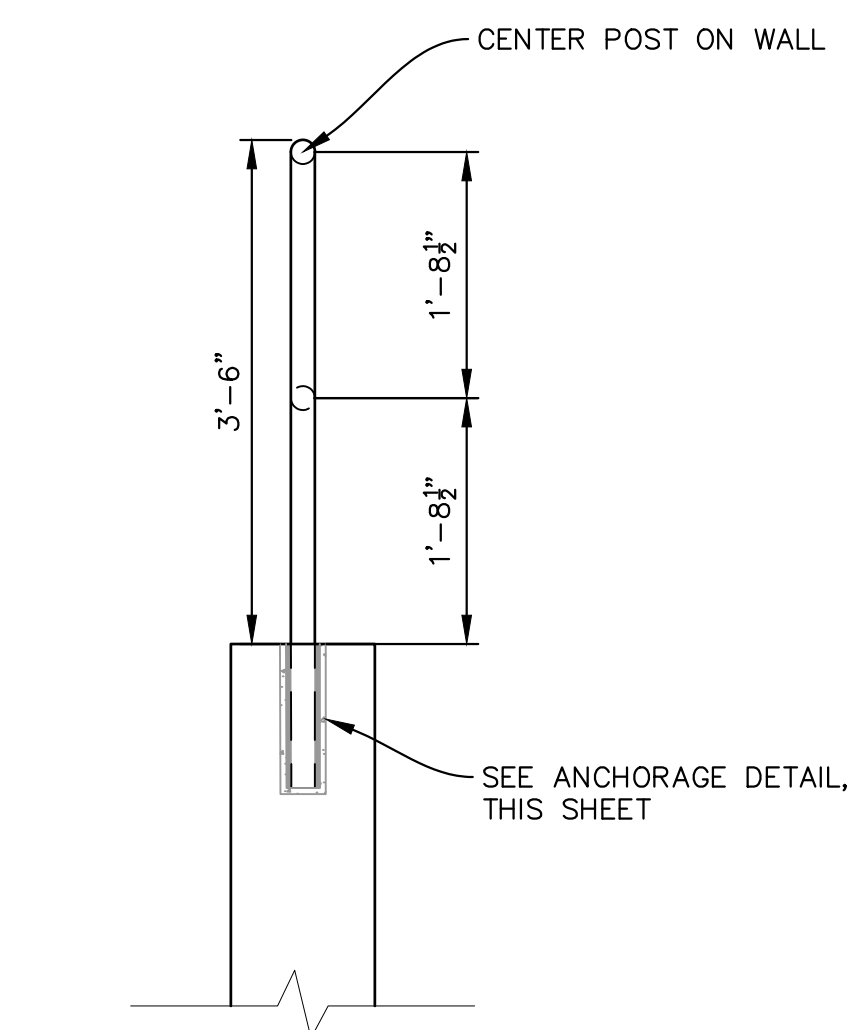
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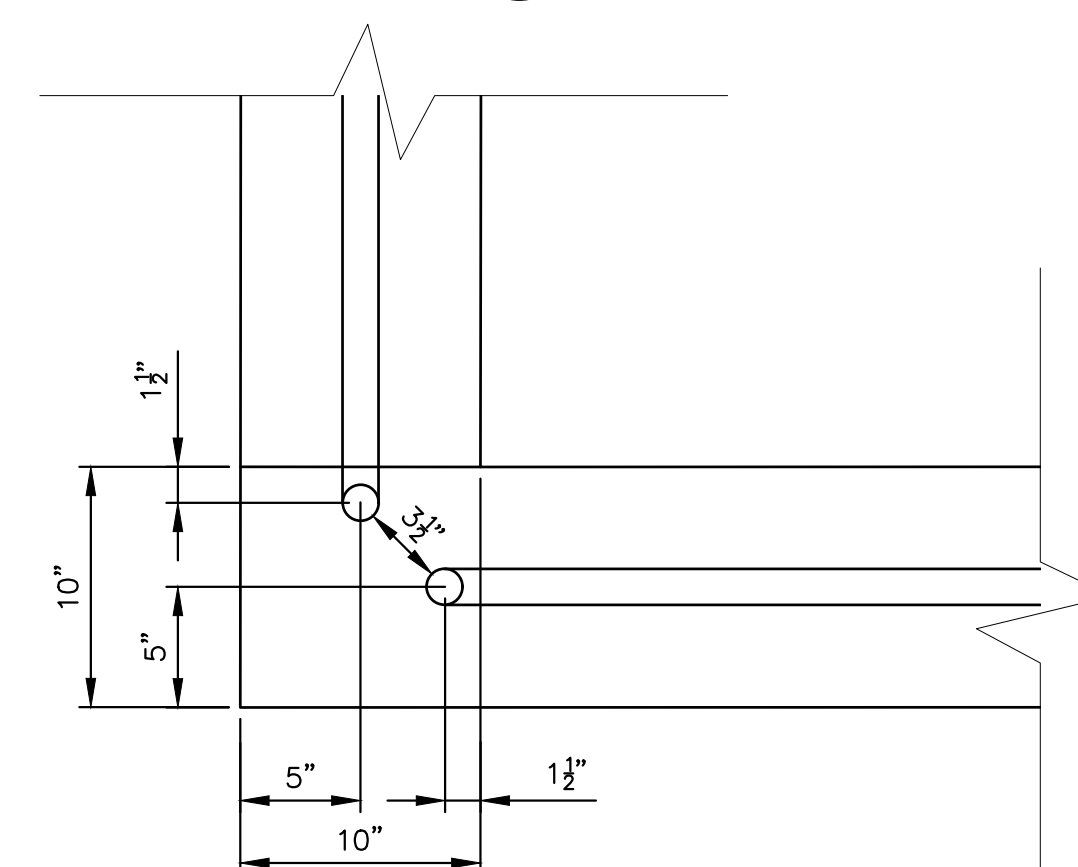
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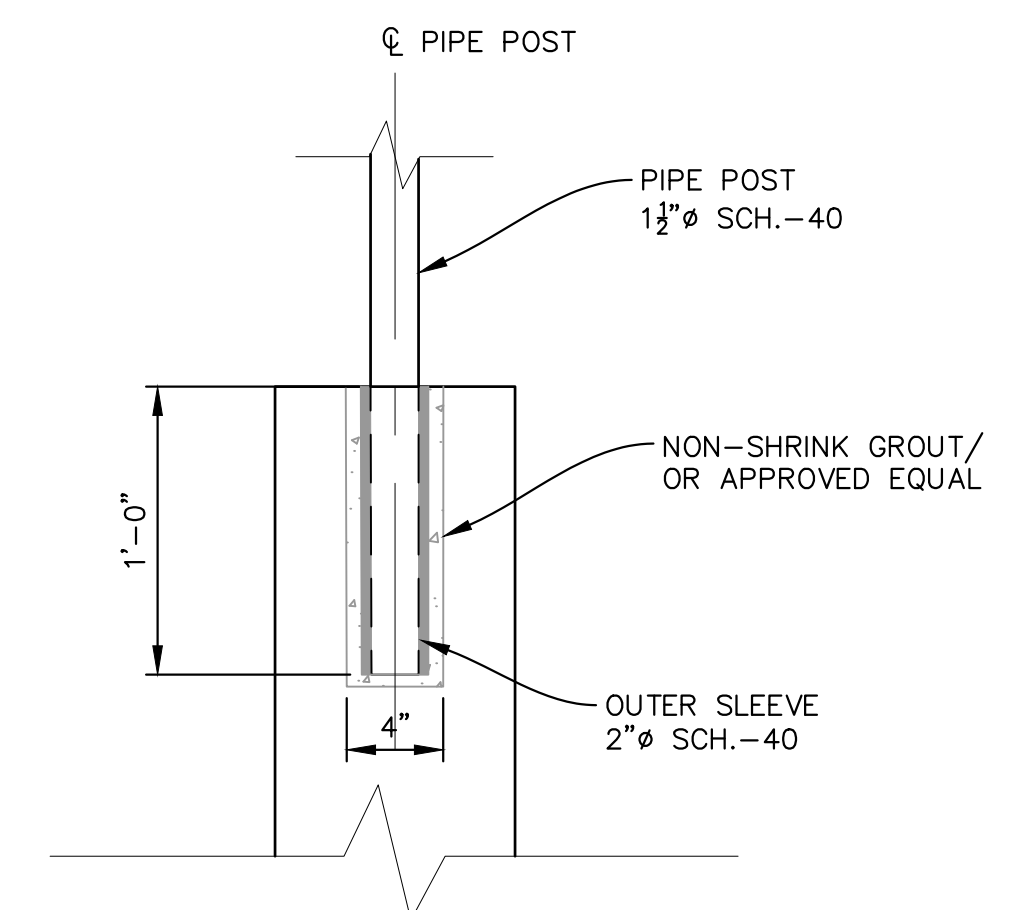
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