

PoDI / NHS	
PROJECT OF DIVISION INTEREST (PoDI)?	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES
NATIONAL HIGHWAY SYSTEM?	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES

DEPARTMENT OF TRANSPORTATION

STATE OF COLORADO

CONSTRUCTION BID PLANS OF PROPOSED
FEDERAL AID PROJECT NO. SAR M915-009

LEWIS PALMER TRAIL

LEWIS PALMER SCHOOL DISTRICT 38

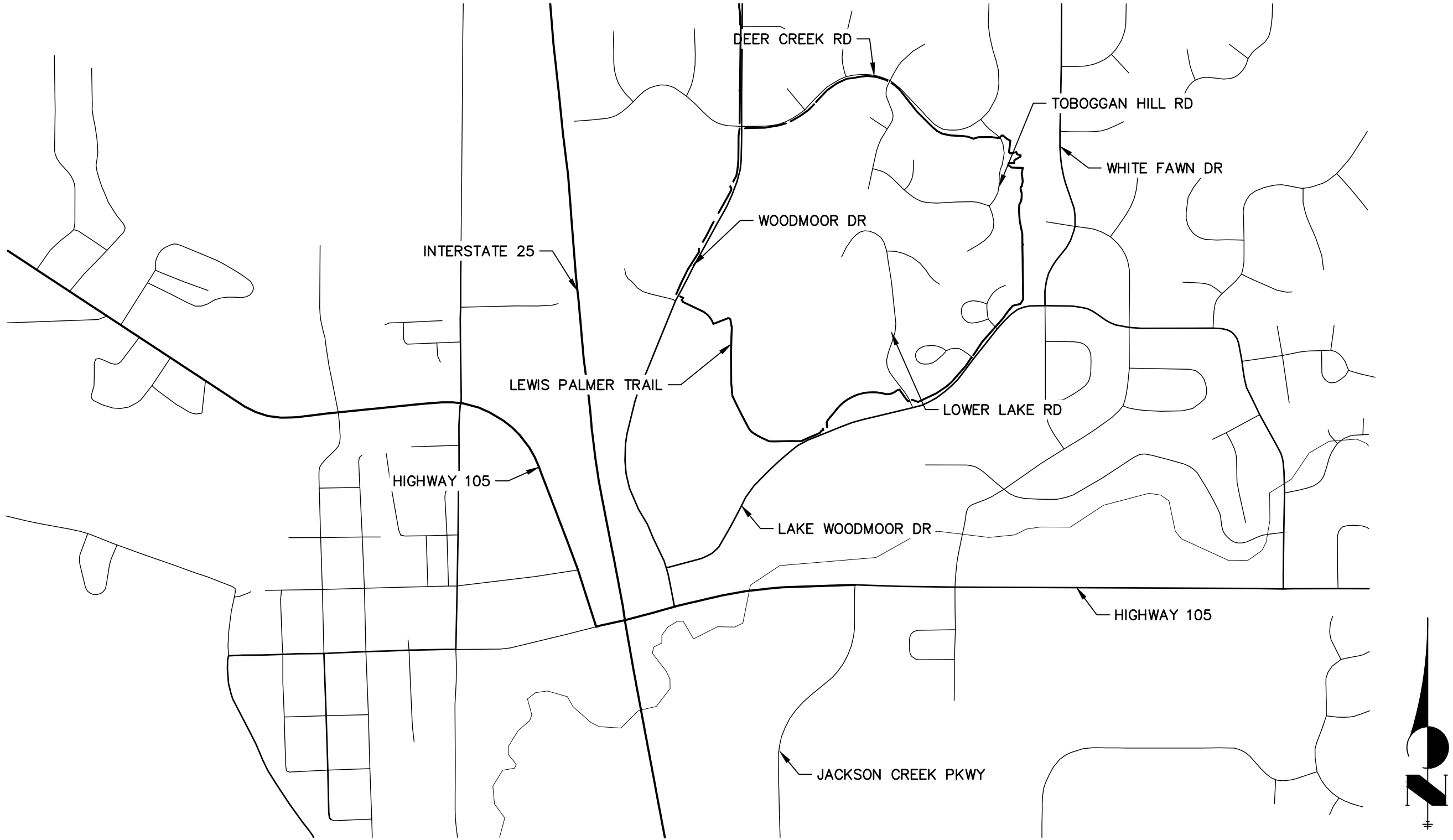
RELATED PROJECT:
P.E. UNDER PROJECT: PROJECT NUMBER: PROJECT CODE:
R.O.W. PROJECT:
TBD

TABULATION OF LENGTH & DESIGN DATA

STATION			PATH LENGTH (FT)
WOODMOOR DRIVE			
BEGIN PATH	0+00.00		
END PATH	30+99.13		3099.13
WILLOW PARK WAY & LAKE ACCESS ROAD			
BEGIN PATH	30+99.13		
END PATH	52+84.41		2185.28
LAKE WOODMOOR DRIVE			
BEGIN PATH	52+84.41		
END PATH	55+32.09		247.68
CORONADO BEACH DR			
BEGIN PATH	55+32.09		
END PATH	64+33.46		901.37
LOWER LAKE ROAD			
BEGIN PATH	64+33.46		
END PATH	66+69.77		236.31
LAKE WOODMOOR DRIVE			
BEGIN PATH	66+69.77		
END PATH	80+76.62		1406.85
WOODMOOR IMPROVEMENT (ASSOCIATION- OPEN SPACE)			
BEGIN PATH	80+76.62		
END PATH	103+00.00		2223.38
DEER CREEK ROAD			
BEGIN PATH	103+00.00		
END PATH	127+63.00		2463.00

DESIGN DATA

WIDTH- SLOPE 4' 5% MAX
MAXIMUM SLOPE 12.5%
PASSING ZONE 5'x5' MAX 1,000' APART
RESTING ZONES 5% MAX SLOPE



VICINITY MAP
SCALE: 1"=1000'

SHEET INDEX

- 1 - COVER SHEET
- 2 - STANDARDS PLAN LIST
- 3 - LEGEND
- 4 - TYPICAL SECTIONS
- 5-6 - RAMP DETAILS
- 7 - NOTES
- 8 - SUMMARY OF APPROXIMATE QUANTITIES
- 9 - SURVEY TABULATIONS
- 10-12 - HORIZONTAL CONTROL PLANS
- 13-28 - TRAIL PLAN AND PROFILE
- 29-41 - CROSS SECTION

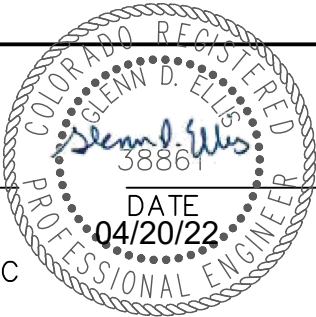
CONTACTS:

OWNER	LEWIS PALMER SCHOOL DISTRICT 38 146 N JEFFERSON STREET MONUMENT, CO 80132 ATTN: RICKY VESTAL P~(719) 757-1430
PROJECT PARTNER	WOODMOOR IMPROVEMENT ASSOCIATION 1691 WOODMOOR DR. MONUMENT, CO 80132 ATTN: P~(719) 488-2693
PROJECT PARTNER	WOODMOOR WATER AND SANITATION DISTRICT PO BOX 1407 MONUMENT, CO 80132 ATTN: P~() -
ENGINEER/SURVEYOR	JR ENGINEERING, LLC ATTN: GLENN ELLIS 5475 TECH CENTER DRIVE, SUITE 235 COLORADO SPRINGS, CO 80919 P~(303) 267-6241
CDOT (REGION 2)	COLORADO DEPARTMENT OF TRANSPORTATION 5615 WILLS BOULEVARD PUEBLO, CO 81008 CONTACT: JUNIOR RODRIGUEZ P~(719) 251-6980

ENGINEER'S STATEMENT

PREPARED UNDER MY SUPERVISION

GLENN D. ELLIS, P.E.
COLORADO P.E. 38861
FOR AND ON BEHALF OF JR ENGINEERING, LLC



Print Date: 05/20/2021	<div><div></div><div></div><div></div><div></div><div></div></div>	Sheet Revisions			<div>Colorado Department of Transportation</div> <div> 5615 WILL BLVD. Pueblo, CO 81008 Phone: 719-546-5750</div> <div> Lewis Palmer School District 38</div> <div>Region 2</div>	As Constructed	LEWIS PALMER TRAIL				Project No./Code
File Name:		Date:	Comments	Init.		No Revisions:	COVER SHEET				M915-009/22585
Horiz. Scale: N/A						Revised:	Designer: GG	Structure		2520300	
Unit name						Void:	Detailer: GG	Numbers			
Unit leader							Sheet Subset:	Subset Sheets:	OF	Sheet Number 1 OF 41	

 **J-R ENGINEERING**
A Westrian Company

Centennial 303-740-9393 • Colorado Springs 719-593-2593
Fort Collins 970-491-9888 • www.jrengineering.com

PLAN NUMBER	M STANDARD TITLE	PAGE NUMBER	PLAN NUMBER	M STANDARD TITLE	PAGE NUMBER	PLAN NUMBER	S STANDARD TITLE	PAGE NUMBER
<input type="checkbox"/> M-100-1	STANDARD SYMBOLS (3 SHEETS)	1-3	<input type="checkbox"/> M-606-1	MIDWEST GUARDRAIL SYSTEM TYPE 3 W-BEAM 31 INCHES (19 SHEETS) <i>(REVISED ON MARCH 5, 2020)</i>	79-97	<input type="checkbox"/> S-612-1	DELINEATOR INSTALLATIONS (8 SHEETS)	171-178
<input type="checkbox"/> M-100-2	ACRONYMS AND ABBREVIATIONS (4 SHEETS)	4-7	<input type="checkbox"/> M-606-13	GUARDRAIL TYPE 7 F-SHAPE BARRIER (4 SHEETS)	98-101	<input type="checkbox"/> S-613-1	ROADWAY LIGHTING (6 SHEETS) <i>(REVISED ON SEPTEMBER 30, 2020)</i>	179-186
<input type="checkbox"/> M-203-1	APPROACH ROADS	8	<input type="checkbox"/> M-606-14	PRECAST TYPE 7 CONCRETE BARRIER (4 SHEETS) <i>(REVISED ON AUGUST 21, 2020)</i>	102-104	<input checked="" type="checkbox"/> S-613-2	ALTERNATIVE ROADWAY LIGHTING (4 SHEETS) <i>(NEW, ISSUED ON SEPTEMBER 30, 2020)</i>	
<input type="checkbox"/> M-203-2	DITCH TYPES	9	<input type="checkbox"/> M-606-15	GUARDRAIL TYPE 9 SINGLE SLOPE BARRIER (11 SHEETS) <i>(REVISED ON MARCH 5, 2020)</i>	105-115	<input type="checkbox"/> S-614-1	GROUND SIGN PLACEMENT (2 SHEETS)	187-188
<input type="checkbox"/> M-203-11	SUPERELEVATION CROWNED AND DIVIDED HIGHWAYS (3 SHEETS)	10-12	<input type="checkbox"/> M-607-1	WIRE FENCES AND GATES (3 SHEETS)	116-118	<input type="checkbox"/> S-614-2	CLASS I SIGNS	189
<input type="checkbox"/> M-203-12	SUPERELEVATION STREETS (2 SHEETS)	13-14	<input type="checkbox"/> M-607-2	CHAIN LINK FENCE (3 SHEETS)	119-121	<input type="checkbox"/> S-614-3	CLASS II SIGNS	190
<input type="checkbox"/> M-206-1	EXCAVATION AND BACKFILL FOR STRUCTURES (2 SHEETS)	15-16	<input type="checkbox"/> M-607-3	BARRIER FENCE	122	<input type="checkbox"/> S-614-4	CLASS III SIGNS (3 SHEETS)	191-193
<input type="checkbox"/> M-206-2	EXCAVATION AND BACKFILL FOR BRIDGES (2 SHEETS)	17-18	<input type="checkbox"/> M-607-4	DEER FENCE, GATES, AND GAME RAMPS (7 SHEETS) <i>(REVISED ON JULY 13, 2020)</i>	123-127	<input type="checkbox"/> S-614-5	BREAK-AWAY SIGN SUPPORT DETAILS FOR CLASS III SIGNS (2 SHEETS)	194-195
<input checked="" type="checkbox"/> M-208-1	TEMPORARY EROSION CONTROL (11 SHEETS)	19-29	<input type="checkbox"/> M-607-10	PICKET SNOW FENCE	128	<input type="checkbox"/> S-614-6	CONCRETE FOOTINGS AND SIGN ISLANDS FOR CLASS III SIGNS (2 SHEETS)	196-197
<input type="checkbox"/> M-210-1	MAILBOX SUPPORTS (2 SHEETS)	30-31	<input type="checkbox"/> M-607-15	ROAD CLOSURE GATE (9 SHEETS)	129-137	<input type="checkbox"/> S-614-8	TUBULAR STEEL SIGN SUPPORT DETAILS (7 SHEETS) <i>(REVISED ON DECEMBER 31, 2020)</i>	198-204
<input type="checkbox"/> M-214-1	NURSERY STOCK DETAILS	32	<input checked="" type="checkbox"/> M-608-1	CURB RAMPS (10 SHEETS)	138-147	S-614-9	PEDESTRIAN PUSH BUTTON POST ASSEMBLY (2 SHEETS) <i>(SUPERSEDED ON JANUARY 23, 2020 BY S-614-45)</i>	205-206
<input type="checkbox"/> M-216-1	SOIL RETENTION COVERING (2 SHEETS)	33-34	<input type="checkbox"/> M-609-1	CURBS, GUTTERS, AND SIDEWALKS (4 SHEETS)	148-151	<input type="checkbox"/> S-614-10	MARKER ASSEMBLY INSTALLATIONS	207
<input type="checkbox"/> M-412-1	CONCRETE PAVEMENT JOINTS (9 SHEETS) <i>(REVISED ON JANUARY 31, 2022)</i>	35-39	<input type="checkbox"/> M-611-1	CATTLE GUARD (2 SHEETS)	152-153	<input type="checkbox"/> S-614-11	MILEPOST SIGN DETAIL FOR HIGH SNOW AREAS	208
<input type="checkbox"/> M-412-2	CONCRETE PAVEMENT CRACK REPAIR (4 SHEETS) <i>(NEW, ISSUED ON OCTOBER 7, 2019)</i>		<input type="checkbox"/> M-611-2	DEER GUARD (2 SHEETS)	154-155	<input type="checkbox"/> S-614-12	STRUCTURE NUMBER INSTALLATION (2 SHEETS)	209-210
<input type="checkbox"/> M-510-1	STRUCTURAL PLATE PIPE H-20 LOADING	40	<input type="checkbox"/> M-614-1	RUMBLE STRIPS (3 SHEETS)	156-158	<input type="checkbox"/> S-614-14	FLASHING BEACON AND SIGN INSTALLATIONS	211-214
<input type="checkbox"/> M-601-1	SINGLE CONCRETE BOX CULVERT (CAST-IN-PLACE) (2 SHEETS)	41-42	<input type="checkbox"/> M-614-2	SAND BARREL ARRAYS (2 SHEETS)	159-160	<input type="checkbox"/> S-614-20	TYPICAL POLE MOUNT SIGN INSTALLATIONS	215
<input type="checkbox"/> M-601-2	DOUBLE CONCRETE BOX CULVERT (CAST-IN-PLACE) (2 SHEETS)	43-44	<input type="checkbox"/> M-615-1	EMBANKMENT PROTECTOR TYPE 3	161	<input type="checkbox"/> S-614-21	CONCRETE BARRIER SIGN POST INSTALLATIONS (2 SHEETS) <i>(REVISED ON SEPTEMBER 21, 2020)</i>	216-217
<input type="checkbox"/> M-601-3	TRIPLE CONCRETE BOX CULVERT (CAST-IN-PLACE) (2 SHEETS)	45-46	<input type="checkbox"/> M-615-2	EMBANKMENT PROTECTOR TYPE 5	162	<input type="checkbox"/> S-614-22	TYPICAL MULTI-SIGN INSTALLATIONS	218
<input type="checkbox"/> M-601-10	HEADWALL FOR PIPES	47	<input type="checkbox"/> M-616-1	INVERTED SIPHON	163	<input type="checkbox"/> S-614-40	TYPICAL TRAFFIC SIGNAL 30'-75' DOUBLE MAST ARMS 65'-75' SINGLE MAST ARMS (5 SHEETS)	219-223
<input type="checkbox"/> M-601-11	TYPE "S" SADDLE HEADWALLS FOR PIPE	48	<input type="checkbox"/> M-620-1	FIELD LABORATORY CLASS 1	164	<input type="checkbox"/> S-614-40A	ALTERNATIVE TRAFFIC SIGNAL 25'-55' SINGLE MAST ARMS (4 SHEETS)	224-227
<input type="checkbox"/> M-601-12	HEADWALLS AND PIPE OUTLET PAVING	49	<input type="checkbox"/> M-620-2	FIELD LABORATORY CLASS 2 (2 SHEETS)	165-166	<input type="checkbox"/> S-614-41	TEMPORARY SPAN WIRE SIGNALS (13 SHEETS)	228-240
<input type="checkbox"/> M-601-20	WINGWALLS FOR PIPE OR BOX CULVERTS (2 SHEETS)	50-51	<input type="checkbox"/> M-620-11	FIELD OFFICE CLASS 1	167	<input type="checkbox"/> S-614-42	CABINET FOUNDATION DETAIL (4 SHEETS)	241-244
<input type="checkbox"/> M-603-1	METAL PIPE (4 SHEETS)	52-55	<input type="checkbox"/> M-620-12	FIELD OFFICE CLASS 2	168	<input type="checkbox"/> S-614-43	TRAFFIC LOOP AND MISCELLANEOUS SIGNAL DETAILS (8 SHEETS)	245-252
<input type="checkbox"/> M-603-2	REINFORCED CONCRETE PIPE	56	<input type="checkbox"/> M-629-1	SURVEY MONUMENTS (2 SHEETS)	169-170	<input type="checkbox"/> S-614-44	PEDESTAL POLE SIGNALS (2 SHEETS)	253-254
<input type="checkbox"/> M-603-3	PRECAST CONCRETE BOX CULVERT <i>(REVISED ON SEPTEMBER 10, 2020)</i>	57				<input type="checkbox"/> S-614-45	PEDESTRIAN PUSH BUTTON POST ASSEMBLY DETAILS (6 SHEETS) <i>(REVISED ON DECEMBER 3, 2020)</i>	
<input type="checkbox"/> M-603-4	CORRUGATED POLYETHYLENE PIPE (AASHTO M294) AND CORRUGATED POLYPROPYLENE PIPE (AASHTO M330) (2 sheets) <i>(REVISED ON MARCH 7, 2022)</i>	58				<input type="checkbox"/> S-614-50	STATIC SIGN MONOTUBE STRUCTURES (12 SHEETS)	255-266
<input type="checkbox"/> M-603-5	POLYVINYL CHLORIDE (PVC) PIPE (AASHTO M304)	59				<input type="checkbox"/> S-614-60	DYNAMIC SIGN MONOTUBE STRUCTURES (14 SHEETS)	267-280
<input type="checkbox"/> M-603-6	STEEL REINFORCED POLYETHYLENE RIBBED PIPE (AASHTO MP 20)	60				<input type="checkbox"/> S-627-1	PAVEMENT MARKINGS (9 SHEETS) <i>(REVISED ON FEBRUARY 16, 2021)</i>	281-289
<input type="checkbox"/> M-603-10	CONCRETE AND METAL END SECTIONS	61				<input type="checkbox"/> S-630-1	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION (24 SHEETS)	290-313
<input type="checkbox"/> M-603-12	TRAVERSABLE END SECTIONS AND SAFETY GRATES (3 SHEETS)	62-64				<input type="checkbox"/> S-630-2	BARRICADES, DRUMS, CONCRETE BARRIERS (TEMP.) AND VERTICAL PANELS	314
<input type="checkbox"/> M-604-10	INLET, TYPE C	65				<input type="checkbox"/> S-630-3	FLASHING BEACON (PORTABLE) DETAILS	315
<input type="checkbox"/> M-604-11	INLET, TYPE D	66				<input type="checkbox"/> S-630-4	STEEL SIGN SUPPORT (TEMPORARY) INSTALLATION DETAILS (2 SHEETS)	316-317
<input type="checkbox"/> M-604-12	CURB INLET TYPE R (2 SHEETS)	67-68				<input type="checkbox"/> S-630-5	PORTABLE RUMBLE STRIPS (TEMPORARY) (2 SHEETS)	318-319
<input type="checkbox"/> M-604-13	CONCRETE INLET TYPE 13	69				<input type="checkbox"/> S-630-6	EMERGENCY PULL-OFF AREA (TEMPORARY)	320
<input type="checkbox"/> M-604-20	MANHOLES (3 SHEETS)	70-72				<input type="checkbox"/> S-630-7	ROLLING ROADBLOCKS FOR TRAFFIC CONTROL (3 SHEETS)	321-323
<input type="checkbox"/> M-604-25	VANE GRATE INLET (5 SHEETS)	73-77						
<input type="checkbox"/> M-605-1	SUBSURFACE DRAINS	78						

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Call before you dig.

Print Date: 05/20/2021

File Name:

Horiz. Scale: N/A

Unit name

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Unit leader

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LAYER LINETYPE LEGEND

	EXISTING	PROPOSED
PHASE LINE		
MATCH LINE		
SECTION LINE		
BOUNDARY LINE		
PROPERTY LINE		
EASEMENT LINE		
RIGHT OF WAY		
R.O.W. A LINE		
CENTERLINE		
CITY LIMITS		
WIRE FENCE		
CHAIN LINK FENCE		
WOOD FENCE		
MASONRY FENCE		
GUARDRAIL		
CONC. BARRIER		
CABLE TV		
ELECTRIC		
FIBER OPTIC		
GAS MAIN		
IRRIGATION MAIN		
OIL/PETRO. MAIN		
OVERHEAD UTILITY		
SANITARY SEWER		
STORM DRAIN		
TELEPHONE		
WATER MAIN		
RAW WATER LINE		
SWALE/WATERWAY FLOWLINE		
DIVERSION DITCH		
DIVERSION CHANNEL		
MAJOR DRAINAGE BASIN		
MINOR DRAINAGE BASIN		
TOP OF SLOPE		
TOE OF SLOPE		
EDGE OF WATER		
INDEX CONTOUR		
INTERMEDIATE CONTOUR		
DEPRESSION CONT. (INDEX)		
DEPRESSION CONT. (INTER)		
TOP OF CUTS		
TOE OF FILLS		
CUT AND FILL LINE		
SILT FENCE		
100 YEAR FLOODPLAIN		
500 YEAR FLOODPLAIN		
FLOODWAY		
BASE FLOOD ELEVATION		
EDGE OF WETLANDS		
STONE WALL		
GRAVEL TRAIL		

UTILITIES LEGEND

	EXISTING	PROPOSED
STORM SEWER		
MANHOLE		
STORM INLET		
AREA INLET - SQUARE		
AREA INLET - ROUND		
FLARED END SECTION		
RIPRAP		
SANITARY SEWER		
LINE MARKER		
SERVICE MARKER		
CLEAN-OUT		
MANHOLE W/ DIRECTIONAL FLOW ARROW		
WATER LINE		
LINE MARKER		
SERVICE MARKER		
FIRE HYDRANT		
FIRE CONNECTION		
MANHOLE		
BEND		
BLOW-OFF VALVE		
WELL		
METER		
VALVE		
REDUCER		
THRUST BLOCK		
CROSS		
PLUG W/ THRUST BLOCK		
TEE		
REVERSE ANCHOR		
ANODE		
AIR & VACUUM VALVE ASSEMBLY		
TRANSMISSION BLOW-OFF ASSEMBLY		
GAS LINE		
MARKER		
SERVICE MARKER		
METER		
VALVE		
DRY UTILITIES		
CABLE TV MARKER		
CABLE TELEVISION PEDESTAL		
ELECTRIC MARKER		
ELECTRIC SERVICE MARKER		
ELECTRICAL PEDESTAL		
ELECTRICAL METER		
ELECTRICAL MANHOLE		
FIBER-OPTIC MARKER		
IRRIGATION PEDESTAL		
TELEPHONE MARKER		
TELEPHONE PEDESTAL		

MONUMENTATION LEGEND

ALUMINUM CAP - FOUND	
BRASS CAP - FOUND	
BENCHMARK - FOUND	
CROSS - FOUND	
MONUMENT - SET	
MONUMENT - FOUND (DEFAULT)	
MONUMENT - FOUND (ALTERNATE 1)	
MONUMENT - FOUND (ALTERNATE 2)	
MONUMENT - FOUND (ALTERNATE 3)	
MONUMENT - FOUND (ALTERNATE 4)	
MONUMENT - FOUND (ALTERNATE 5)	
MONUMENT - FOUND (ALTERNATE 6)	
MONUMENT - FOUND (ALTERNATE 7)	
NAIL & WASHER - FOUND	
PANEL - FOUND	
PK NAIL - FOUND	
ROW MONUMENT - FOUND	
ROW MARKER - FOUND	
SECTION CORNER - FOUND	
SECTION CORNER - SET	
QUARTER-SECTION CORNER - FOUND	
QUARTER-SECTION CORNER - SET	
SECTION CENTER - FOUND	
SECTION CENTER - FOUND	
CONTROL/TRVERSE POINT - SET	

LANDSCAPE LEGEND

	EXISTING	PROPOSED
TREE - CONIFEROUS		
TREE - DECIDUOUS		
SHRUB/BUSH		
SHRUBS AND BUSHES		
IRRIGATION BOX		
IRRIGATION SPRINKLER		
IRRIGATION VALVE		
BOLLARD		
FLAGPOLE		

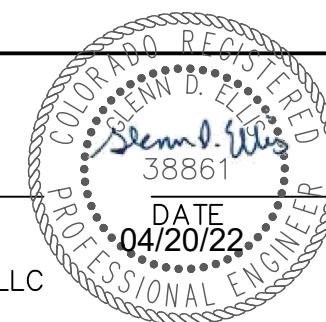
STORM WATER MANAGEMENT

	KEY	SYMBOL
CHECK DAM		
CONSTRUCTION ROAD STABILIZATION		
CURB SOCK INLET PROTECTION		
CONCRETE WASHOUT AREA		
DIVERSION DITCH AND DIKE, TEMPORARY		
DIVERSION CHANNEL, TEMPORARY		
DEWATERING		
EROSION CONTROL BLANKET		
INLET FILTER		
INLET PROTECTION		
MULCHING		
OUTLET PROTECTION		
PAVED FLUME		
PERMENTENT SEEDING		
REINFORCED CONCRETE DAM		
ROUGH CUT STREET CONTROL		
SEDIMENT BASIN		
SEDIMENT CONTROL LOG		
SILT FENCE		
SURFACE ROUGHENING		
STABILIZED STAGING AREA		
SEDIMENT TRAP		
STRAW BALE BARRIER		
TERRACING		
TEMPORARY SEEDING		
TEMPORARY STREAM CROSSING CULVERT/BRIDGE		
TEMPORARY STREAM CROSSING FORD TYPE		
TEMPORARY SLOPE DRAIN		
VEHICLE TRACKING CONTROL		
VEHICLE TRACKING CONTROL WITH WASH RACK		

ENGINEER'S STATEMENT

PREPARED UNDER MY SUPERVISION

GLENN D. ELLIS, P.E.
COLORADO P.E. 38861
FOR AND ON BEHALF OF JR ENGINEERING, LLC



Print Date: 05/20/2021

File Name:

Horiz. Scale: N/A

Vert. Scale: N/A

Unit name

Unit leader



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Sheet Revisions

Date:	Comments	Init.

Colorado Department
of Transportation



Region 2

5615 WILL BLVD.
Pueblo, CO 81008
Phone: 719-546-5750



Lewis Palmer
School District 38

As Constructed

No Revisions:

Revised:

Void:

LEWIS PALMER TRAIL

LEGEND

Designer:

GG

Detailer:

GG

Sheet Subset:

Subset Sheets:

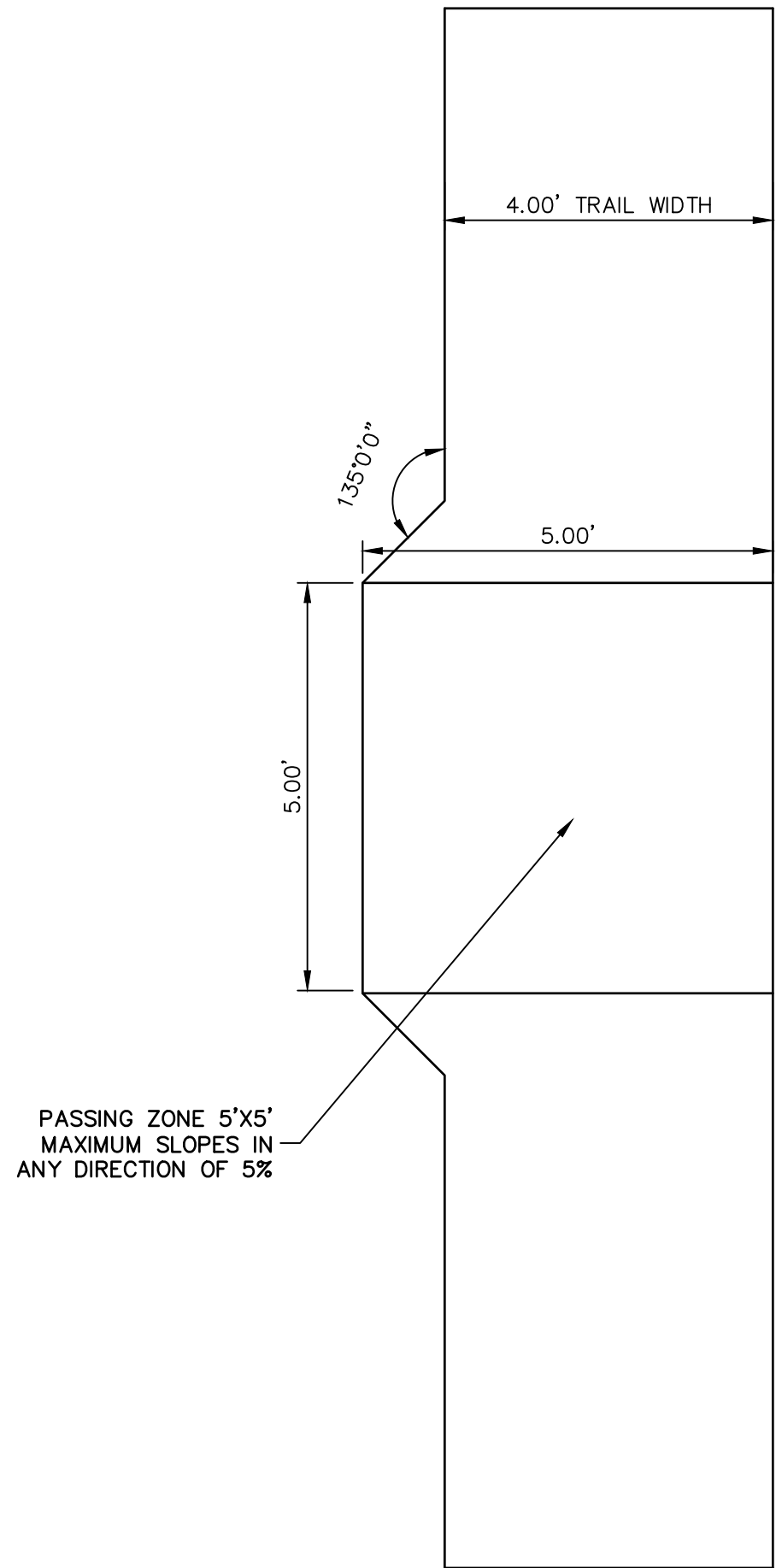
OF

Project No./Code

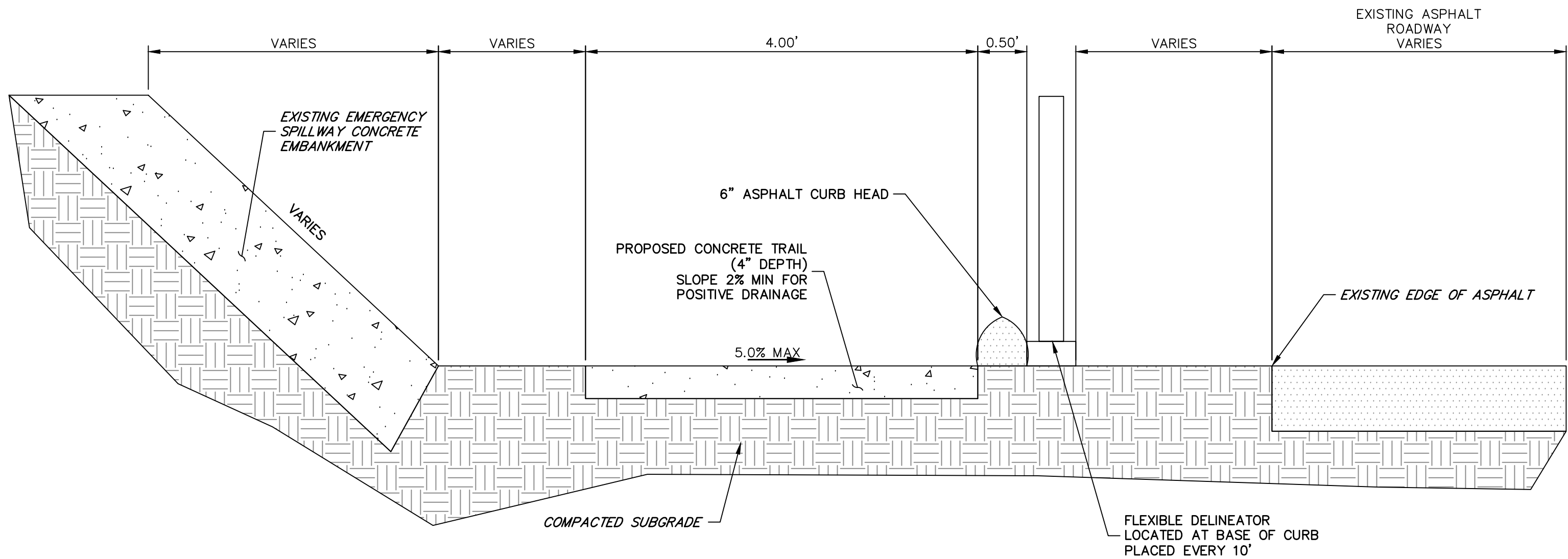
M915-009/22585

2520300

Sheet Number 3 OF 41

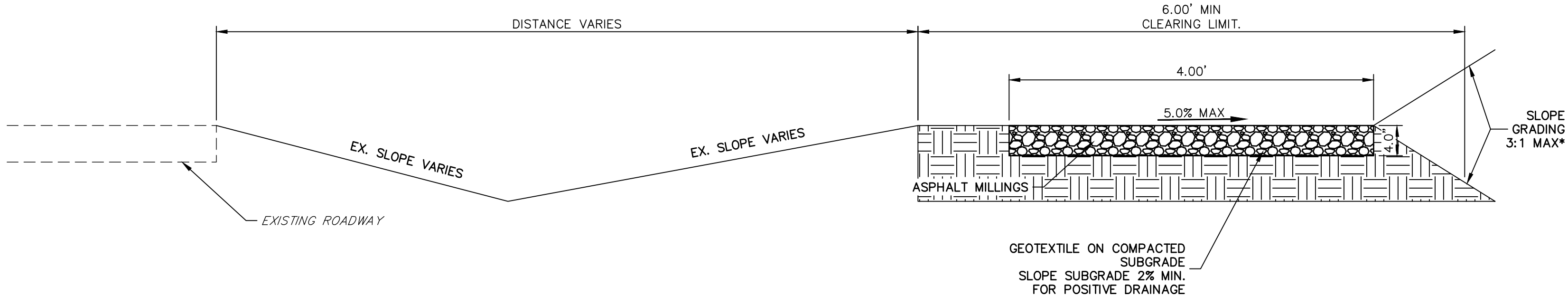
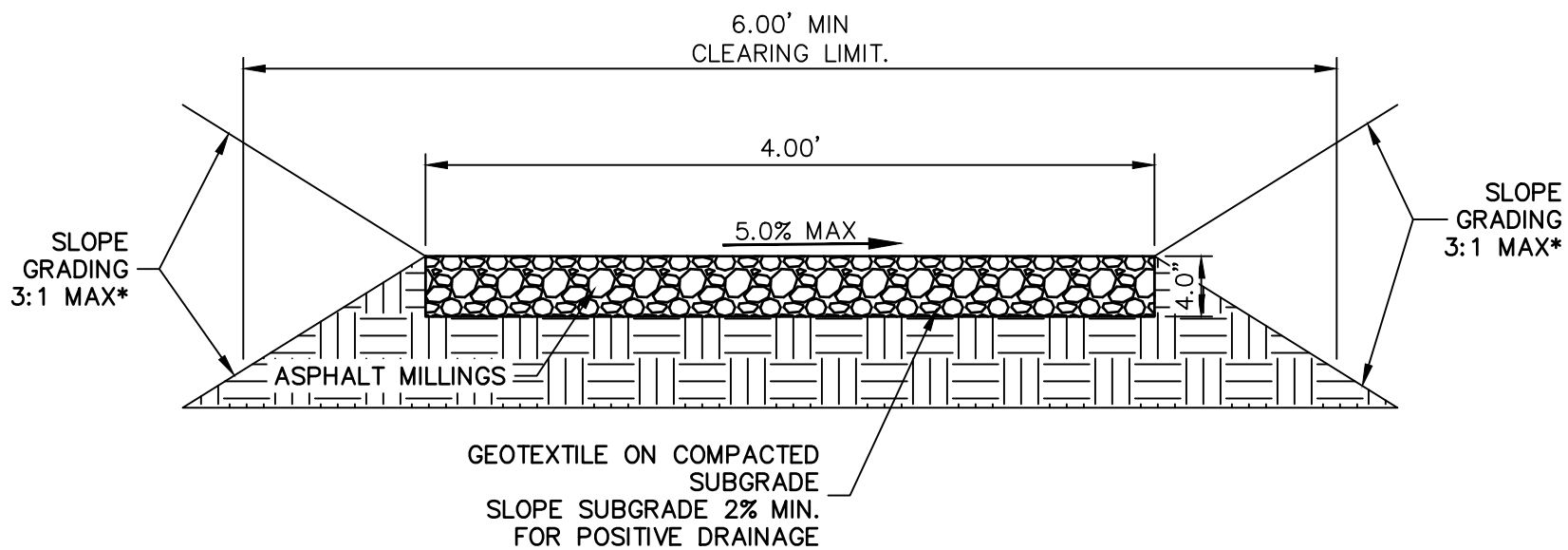


PASSING ZONE
SCALE: NOT TO SCALE



SPILLWAY TYPICAL SECTION

- NOTES:
1. CONCRETE TRAIL BEGINS AT STA: 52+84.41 AND ENDS AT STA: 55+32.09
 2. ASPHALT CURB HEAD SECTION 1 BEGINS AT STA: 52+84.41 AND ENDS AT STA: 53+39.37
 3. ASPHALT CURB HEAD SECTION 2 BEGINS AT STA: 53+84.79 AND ENDS AT STA: 55+00.00



* - UNLESS STATED OTHERWISE IN THE PLANS OR CROSS-SECTIONS




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1 1 0 1 2
ORIGINAL SCALE: 1" = 1'

Print Date: 05/20/2021
File Name:
Horiz. Scale: 1"=XX' Vert. Scale:
Unit name Unit leader
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Sheet Revisions			
Date:	Comments	Init.	



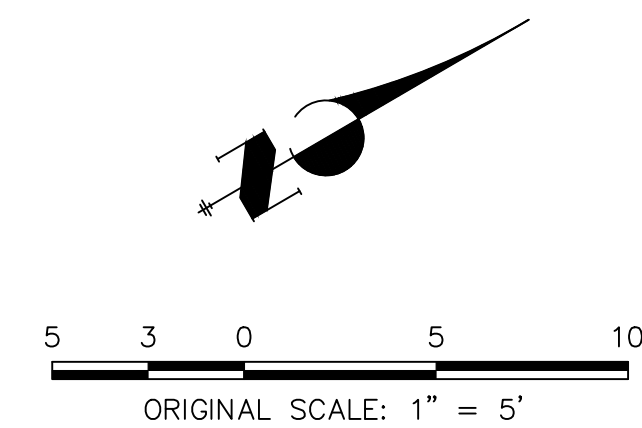
Colorado Department of Transportation



Lewis Palmer School District 38




5615 WILL BLVD.
Pueblo, CO 81008
Phone: 719-546-5750

As Constructed	LEWIS PALMER TRAIL TYPICAL SECTIONS				Project No./Code
No Revisions:					M915-009/22585
Revised:	Designer:	GG	Structure		2520300
Void:	Detailer:	GG	Numbers		
	Sheet Subset:		Subset Sheets:	OF	Sheet Number 4 OF 41



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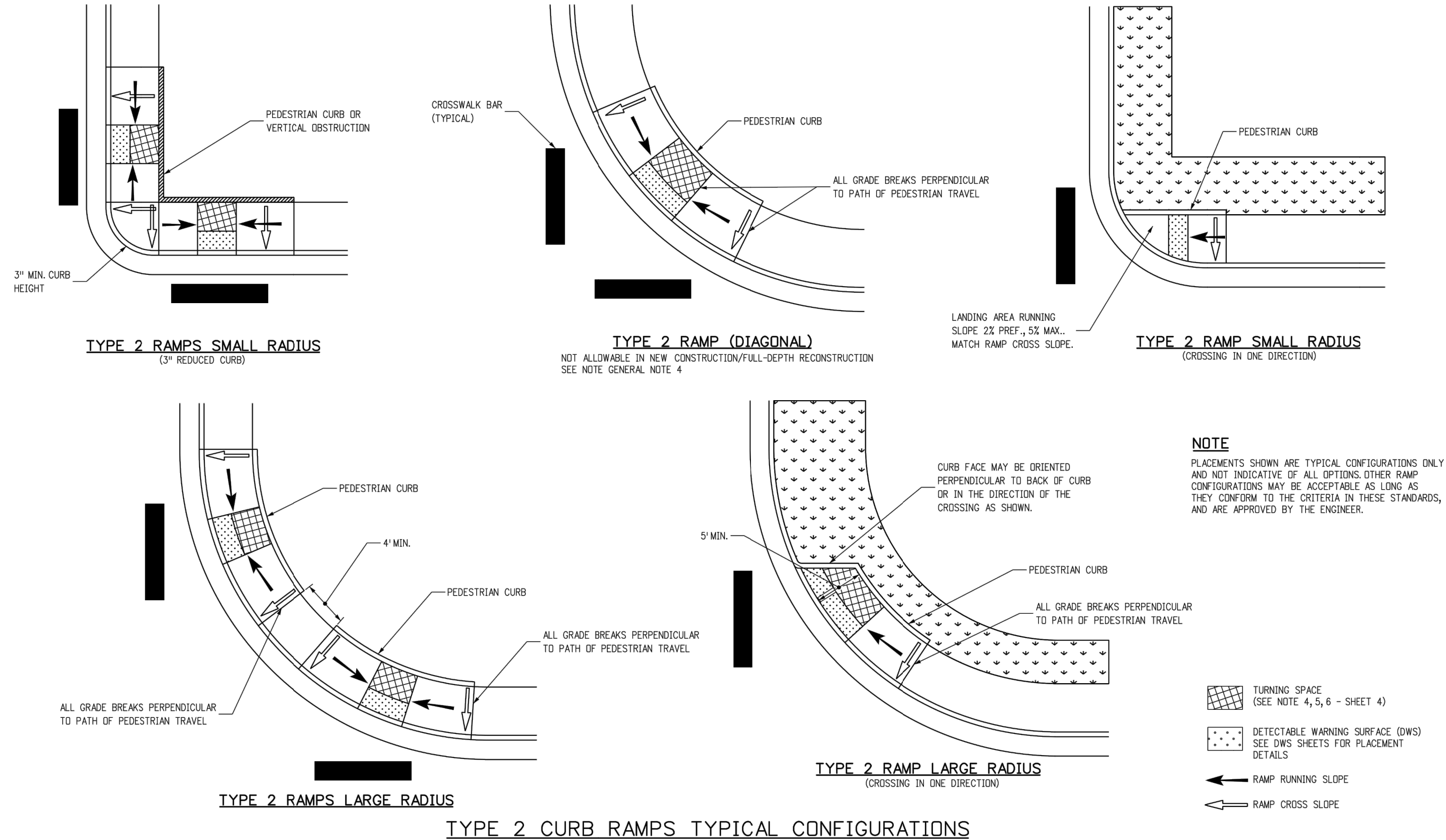
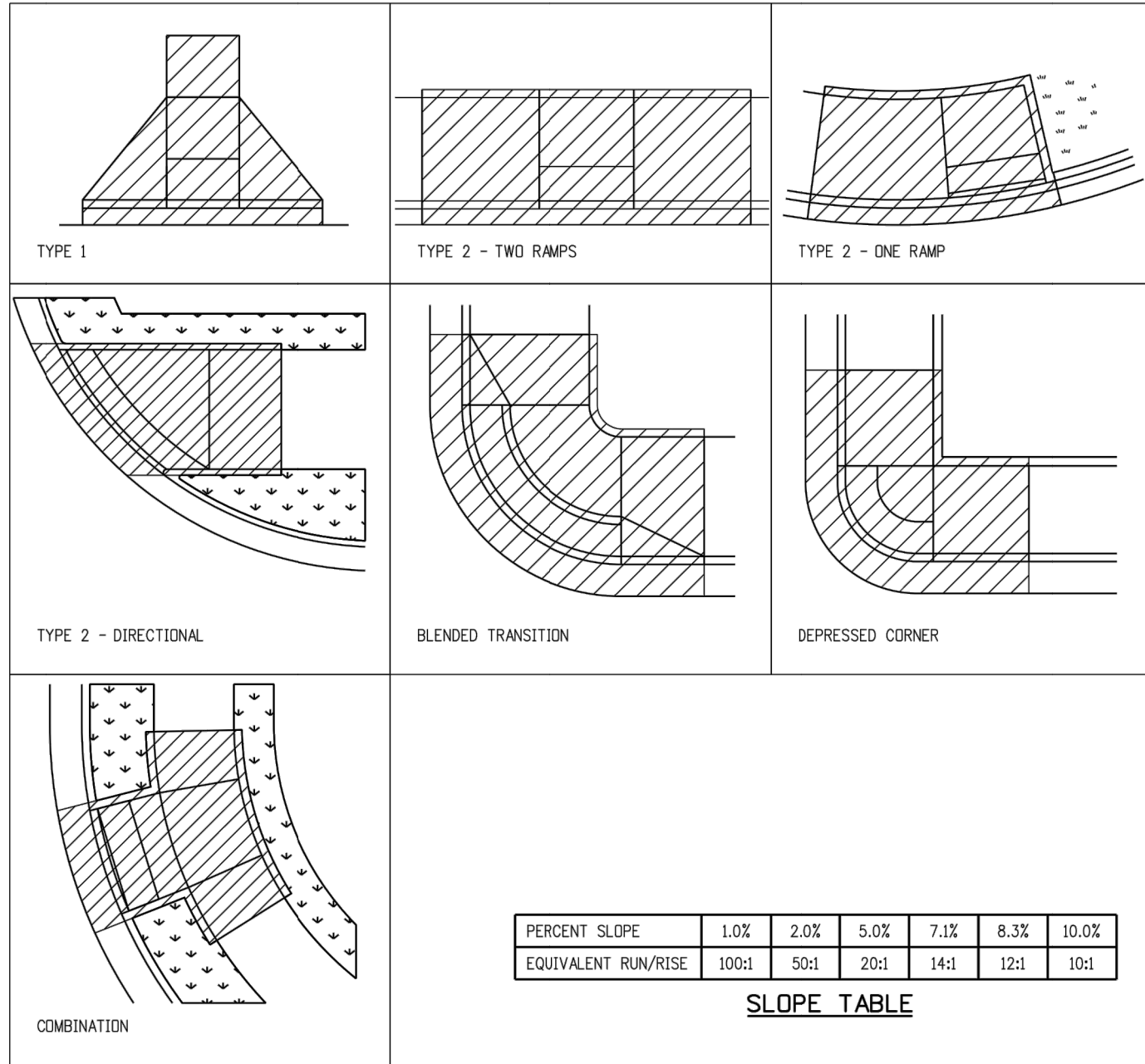
Print Date: 05/20/2021				Sheet Revisions		Colorado Department of Transportation		As Constructed		LEWIS PALMER TRAIL RAMP DETAILS				Project No./Code	
File Name:			Date:	Comments	Init.	 5615 WILL BLVD. Pueblo, CO 81008 Phone: 719-546-5750				No Revisions:				M915-009/22585	
Horiz. Scale: 1"=5'		Vert. Scale: N/A	<input type="checkbox"/>							Revised:		Designer: GG	Structure	2520300	
Unit name		Unit leader	<input type="checkbox"/>									Detailler: GG	Numbers		
 J-R ENGINEERING A Westrian Company Centennial 303-740-9393 • Colorado Springs 719-593-2593 Fort Collins 971-491-9888 • www.jrenengineering.com			<input type="checkbox"/>			 Region 2		Lewis Palmer School District 38		Void:		Sheet Subset:		Subset Sheets: OF	Sheet Number 5 OF 41

CURB RAMP GENERAL NOTES:

- ① IN NEW CONSTRUCTION OR FULL-DEPTH RECONSTRUCTION, PROVIDE A SEPARATE CURB RAMP FOR EACH MARKED OR UNMARKED PEDESTRIAN STREET CROSSING. CURB RAMPS SHALL BE CONTAINED WHOLLY WITHIN THE WIDTH OF THE PEDESTRIAN STREET CROSSING OR CROSSWALK THEY SERVE, OR AS SHOWN ON THE CONTRACT PLANS.
- ② ALTERATIONS ARE DEFINED AS CHANGES TO AN EXISTING HIGHWAY THAT AFFECT PEDESTRIAN ACCESS, CIRCULATION, OR USE. ALTERATIONS INCLUDE, BUT ARE NOT LIMITED TO, RESURFACING, REHABILITATION, RECONSTRUCTION, CURB RAMP RETROFITS, HISTORIC RESTORATION, OR CHANGES OR REARRANGEMENT TO STRUCTURAL PARTS OR ELEMENTS OF A PEDESTRIAN FACILITY.
- ③ A WALKABLE SURFACE IS DEFINED AS A PAVED SURFACE ADJACENT TO A CURB RAMP OR TURNING SPACE, WITHOUT RAISED OBSTACLES, THAT COULD BE MISTAKENLY TRAVERSED BY A USER WHO IS VISUALLY IMPAIRED.
- ④ IN ALTERATIONS, WHERE AN EXISTING PHYSICAL CONSTRAINT PREVENTS PROVIDING A SEPARATE CURB RAMP FOR EACH PEDESTRIAN STREET CROSSING, A SINGLE DIAGONAL RAMP (ON THE APEX) SHALL BE PERMITTED TO SERVE BOTH PEDESTRIAN STREET CROSSINGS. THE USE OF A SINGLE DIAGONAL RAMP SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. DIAGONAL RAMPS ARE NOT ACCEPTABLE IN NEW CONSTRUCTION OR FULL-DEPTH RECONSTRUCTION.
- ⑤ DETECTABLE WARNING SURFACES (DWS) ARE INTENDED TO INDICATE THE BOUNDARY BETWEEN A PEDESTRIAN ROUTE AND VEHICULAR ROUTE WHERE THERE IS A FLUSH RATHER THAN CURBED CONNECTION. DWS ARE NOT INTENDED TO PROVIDE WAYFINDING. DWS SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS;
1. CURB RAMPS, BLENDED TRANSITIONS, AND DEPRESSED CORNERS AT PEDESTRIAN STREET CROSSINGS;
2. PEDESTRIAN REFUGE ISLANDS (6 FEET IN WIDTH OR GREATER);
3. BOARDING PLATFORMS AT TRANSIT STOPS WHERE THE EDGE OF THE PLATFORM IS NOT PROTECTED TO PEDESTRIAN CROSS TRAFFIC; AND
4. BOARDING AREAS AT SIDEWALK OR STREET LEVEL TRANSIT STOPS WHERE THE AREA IS NOT PROTECTED TO PEDESTRIAN CROSS TRAFFIC.
- ⑥ DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH THE ADJACENT GUTTER, HIGHWAY, OR PEDESTRIAN ACCESS ROUTE SURFACE, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. FEDERAL YELLOW COLOR IS PREFERRED, HOWEVER, OTHER COLORS MAY BE USED IF APPROVED BY THE ENGINEER.
- ⑦ IN ALTERATIONS, TO AVOID CHASING GRADE INDEFINITELY ON STEEP ROADWAYS, A CURB RAMPS LENGTH IS NOT REQUIRED TO EXCEED 15 FEET REGARDLESS OF THE RESULTING RAMP RUNNING SLOPE.
- ⑧ ALL SLOPES ARE MEASURED WITH RESPECT TO A LEVEL PLANE.
- ⑨ DRAINAGE STRUCTURES, TRAFFIC SIGNAL EQUIPMENT, OR OTHER OBSTRUCTIONS SHALL NOT BE INSTALLED ON THE CURB RAMP, OR TURNING SPACE AREAS.
- ⑩ IN NEW CONSTRUCTION, PULL BOXES, METER BOXES, MAINTENANCE HOLE COVERS, VAULT LIDS, OR SIMILAR, SHALL NOT BE CONSTRUCTED WITHIN ANY PART OF CURB RAMP OR TURNING SPACE. IN ALTERATIONS, WHERE THESE ITEMS CANNOT BE RELOCATED OUTSIDE OF THE CURB RAMP OR TURNING SPACE, THEY MUST NOT CREATE A VERTICAL DISCONTINUITY GREATER THAN 1/2 INCH. ANY VERTICAL DISCONTINUITY BETWEEN 1/4 INCH AND 1/2 INCH SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1V:2H. THE BEVEL SHALL BE APPLIED ACROSS THE ENTIRE SURFACE DISCONTINUITY.
- ⑪ CONSTRUCTION OF ANY REQUIRED PEDESTRIAN CURB SHALL BE INCLUDED IN THE BID PRICE OF THE CONCRETE CURB RAMP AND WILL NOT BE PAID FOR SEPARATELY.
- ⑫ ALL CURB RAMP JOINTS AND GRADE BREAKS SHALL BE FLUSH (0"-1/8"). THE JOINT BETWEEN THE ROADWAY SURFACE AND THE GUTTER PAN SHALL BE FLUSH.
- ⑬ THE CONTRACTOR SHALL VERIFY REMOVAL LIMITS ARE SUFFICIENT TO PROVIDE POSITIVE DRAINAGE, MAINTAIN EXISTING DRAINAGE PATTERNS, AND AVOID PONDING IN THE FINAL CONFIGURATION.
- ⑭ FLARED SIDE SLOPES MAY EXCEED 10.0% ONLY WHERE THEY ABUT A NON-WALKABLE SURFACE, OR WHERE THE ADJACENT RAMP SURFACE IS BLOCKED TO PEDESTRIAN TRAFFIC.
- ⑮ THE CHANGE IN GRADE AT THE BOTTOM OF THE CURB RAMP SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 13.33%. THE COUNTER SLOPE OF THE GUTTER AT THE FOOT OF A RAMP, TURNING SPACE, OR BLENDED TRANSITION SHALL NOT EXCEED 5.0%.
- ⑯ GRADE BREAKS AT THE TOP AND BOTTOM OF RAMP RUNS SHALL BE PERPENDICULAR TO THE DIRECTION OF THE RAMP RUN. GRADE BREAKS SHALL NOT BE PERMITTED ON THE SURFACE OF THE RAMP RUN OR TURNING SPACE. SURFACE SLOPES THAT MEET AT GRADE BREAKS SHALL BE FLUSH.
- ⑰ A BROOM FINISH, WITH SWEEPS PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAFFIC, SHALL BE APPLIED TO ALL RAMP AND TURNING SPACE SURFACES.
- ⑱ IN ALTERATIONS, WHERE A RAMP OR TURNING SPACE MUST TIE INTO AN EXISTING GRADE THAT CANNOT BE ALTERED, THE RAMP OR TURNING SPACE MAY BE WARPED TO TRANSITION TO THE REQUIRED CROSS SLOPE. THE TRANSITION TO THE REQUIRED CROSS SLOPE SHALL BE SPREAD EVENLY OVER THE LENGTH OF THE RAMP OR TURNING SPACE TO MINIMIZE THE DEGREE OF WARPING. THE RATE OF CHANGE ON A RAMP OR TURNING SPACE SHALL NOT EXCEED 3% PER LINEAR FOOT.
- ⑲ DESIGN AND CONSTRUCT CURB RAMPS, TURNING SPACES, AND FLARE SLOPES WITH THE FLATTEST SLOPES POSSIBLE. THE SLOPES INDICATED IN THESE DETAILS SHOW THE MAXIMUM SLOPES ALLOWABLE. PREFERRED VALUES TO BE USED DURING DESIGN, LAYOUT, AND CONSTRUCTION ARE:
- RAMP RUNNING SLOPE 7.5%
 - RAMP CROSS SLOPE 1.5%
 - TURNING SPACE RUNNING SLOPE 1.5%
 - TURNING SPACE CROSS SLOPE 1.5%
 - FLARE SLOPE 8.0-9.0%

GENERAL NOTES & PAY AREAS

CURB RAMP PAY AREAS

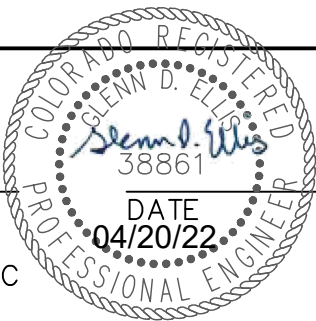


Computer File Information		Sheet Revisions		Colorado Department of Transportation 2829 West Howard Place CDOT HQ, 3rd Floor Denver, CO 80204 Phone: 303-757-9021 FAX: 303-757-9868 Project Development Branch JBK	CURB RAMPS	STANDARD PLAN NO.		Computer File Information		Sheet Revisions		Colorado Department of Transportation 2829 West Howard Place CDOT HQ, 3rd Floor Denver, CO 80204 Phone: 303-757-9021 FAX: 303-757-9868 Project Development Branch JBK	CURB RAMPS	STANDARD PLAN NO.	
Creation Date: 07/31/19		Date:	Comments			M-608-1		Creation Date: 07/31/19		Date:	Comments			M-608-1	
Designer Initials: JBK	(R-X)					Standard Sheet No. 1 of 10		Designer Initials: JBK	(R-X)					Standard Sheet No. 5 of 10	
Last Modification Date: 07/31/19	(R-X)					Project Sheet Number:		Last Modification Date: 07/31/19	(R-X)					Project Sheet Number:	
Detailer Initials: LTA	(R-X)					Issued by the Project Development Branch: July 31, 2019		Detailer Initials: LTA	(R-X)					Issued by the Project Development Branch: July 31, 2019	
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	(R-X)							CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	(R-X)						



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GLENN D. ELLIS, P.E.
COLORADO P.E. 38861
FOR AND ON BEHALF OF JR ENGINEERING, LLC

Print Date: 05/20/2021	<div><div></div><div></div><div></div><div></div><div></div></div>	Sheet Revisions			Colorado Department of Transportation 5615 WILL BLVD. Pueblo, CO 81008 Phone: 719-546-5750 Region 2	As Constructed	LEWIS PALMER TRAIL RAMP DETAILS				Project No./Code	
File Name:		Date:	Comments	Init.			M915-009/22585				2520300	
Horiz. Scale: N/A							Designer:	GG	Structure		2520300	
Unit name							Detailer:	GG	Numbers		2520300	
Unit leader							Sheet Subset:		Subset Sheets:	OF	Sheet Number 6 OF 41	

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED 2019; AND AS SUBSEQUENTLY REVISED; THE STANDARD PLANS DATED JULY 2019 AND AS SUBSEQUENTLY REVISED, AND IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS INCLUDED HEREIN.

1. WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED.
2. PRIOR TO MOISTURE DENSITY CONTROL, THE CONTRACTOR SHALL REMOVE ALL TOPSOIL AND SOFT OR DISTURBED SOILS. DEPTH OF MOISTURE - DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS:

1. THE CONTRACTOR IS REQUIRED TO KEEP EXISTING DRAINAGE STRUCTURES FUNCTIONAL AND MAINTAIN DRAINAGE TO THOSE STRUCTURES AT ALL TIMES DURING CONSTRUCTION.

ALL STEEL AND IRON PRODUCTS MUST MEET BUY AMERICA REQUIREMENT PER CDOT SPECIFICATIONS SECTION 106.11. BUY AMERICA CERTIFICATIONS SHALL BE PROVIDED TO THE PROJECT ENGINEER WHEN PRODUCTS ARE DELIVERED TO THE SITE.

IT IS ANTICIPATED THAT A CDPS STORMWATER CONSTRUCTION PERMIT (SCP) WILL BE REQUIRED FOR THIS PROJECT. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF SECTIONS 101, 107, AND 208 OF THE 2019 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE CONTRACTOR SHALL OBTAIN A WORK IN RIGHT OF WAY PERMIT FROM EL PASO COUNTY PUBLIC WORKS PRIOR TO CONSTRUCTION.

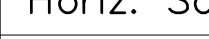
1. UTILITIES AS SHOWN ON THE PLAN SHEETS ARE PLOTTED FROM SURVEY SHOTS OF SURFACE FEATURES. THE CONTRACTOR'S ATTENTION IS DIRECTED TO PARAGRAPH 105.11 OF THE STANDARD SPECIFICATION CONCERNING UTILITIES. FOR UTILITY LOCATES, THE CONTRACTOR SHALL CALL THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 811 OR 1-800-922-1987 AT LEAST TWO (2) WORKING DAYS (NOT

1. CONSTRUCTION TRAFFIC CONTROL SHALL CONFORM THE THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND CDOT STANDARD S-630-1. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A METHOD OF HANDLING TRAFFIC (MHT) TO THE ENGINEER FOR APPROVAL FOR EACH APPLICABLE PHASE OF WORK. ALL COST FOR CONTROLLING TRAFFIC DURING CONSTRUCTION SHALL BE INCLUDED IN ITEM 630 - CONSTRUCTION TRAFFIC CONTROL (LS).



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File Name:					No Revisions:		NOTES				M915-009/22585	
Horiz. Scale: N/A Vert. Scale: N/A					Revised:		Designer: GG		Structure Numbers		2520300	
Unit name Unit leader					Void:		Detailer: GG					
<div><div></div><div><div>J-R ENGINEERING</div><div>A Westrian Company</div><div>Centennial 303-740-9393 • Colorado Springs 719-593-2593 Fort Collins 970-431-9888 • www.jrengineering.com</div></div></div>					<div><div><input type="checkbox"/></div><div><input type="checkbox"/></div><div><input type="checkbox"/></div><div><input type="checkbox"/></div></div>			Sheet Subsets:		Subset Sheets: OF		Sheet Number 7 OF 41

CDOT ITEM NO.	DESCRIPTION	UNIT	QUANTITY	
			PLAN	AS CONST.
201-00000	Clearing and Grubbing	LS	1	
202-00203	Removal of Curb and Gutter	LF	50	
203-00060	Embankment Material (Complete In Place)	CY	110	
208-00000-SPC	Erosion Control	LS	1	
208-00046	Pre-fabricated Concrete Washout Structure	EACH	1	
208-00070	Vehicle Tracking Pad	EACH	6	
210-01000	Reset Fence	LF	70	
212-00006	Seeding (Native)	ACRE	0.6	
213-00000	Mulching	ACRE	0.6	
213-00061	Mulch Tackifier	LB	300	
306-01000	Reconditioning	SY	4,150	
608-00000	Concrete Sidewalk	SY	100	
608-00010	Concrete Curb Ramp	SY	60	
608-00015	Detectable Warnings	SF	40	
608-01550	Place Asphalt Millings	SY	4,150	
609-71000	Curb (Special)	LF	170	
612-00039	Delineator (Flexible) (Surface Mounted)	EACH	20	
614-00011	Sign Panel (Class I)	SF	50	
614-00214	Steel Sign Post (1.75x1.75 Inch Tubing)	LF	75	
620-00020	Sanitary Facility	EACH	1	
625-00000	Construction Surveying	LS	1	
626-00000	Mobilization	LS	1	
627-00002	Thermoplastic Pavement Marking	SF	1,650	
630-10005	Traffic Control	LS	1	

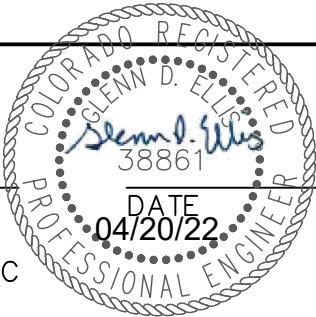


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File Name:		Date:	Comments	Init.		No Revisions:	SUMMARY OF APPROXIMATE QUANTITIES			M915-009/22585
Horiz. Scale: N/A						Revised:	Designer: GG	Structure		2520300
Unit name						Void:	Detailer: GG	Numbers		
Unit leader							Sheet Subset:	Subset Sheets:	OF	Sheet Number 8 OF 41

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TO ESTABLISH GEOMETRIC CONTROL FOR THE CONSTRUCTION OF THIS PROJECT, THE DEPARTMENT HAS PROVIDED THE FOLLOWING INFORMATION:

Format *

☐ 3D Design Modeling Electronic Files

☒ Horizontal Control

☒ Vertical Control

☒ Roadway Alignment

☐ Original Terrain Data

☐ Other:

PLAN SHEET

PLAN SHEET

DWG

* Specify the information format, ie., plan sheet, computer disk, computer printout, or other. The information marked is either contained on the plans or is available from the Engineer.

TYPE OF PROJECT

☐ Landscaping

☐ Signalization

☐ Safety Improvement

☐ Asphalt Overlay

☐ Concrete Overlay

☐ Minor Widening

☐ Major Reconstruction

☐ New Roadway Construction

☐ Bridge Replacement

☐ Bridge Widening

☐ New Bridge

☒ Other: PEDESTRIAN IMPROVEMENT

SURVEY WORK TO BE PERFORMED BY OTHERS:

WORK PERFORMED BY THE CONTRACTOR'S SURVEYOR UNDER SECTION 625:

☐ A complete passing Base Line report (completed within 6 months prior to the start of the project)

☐ An instrument calibration Certification (completed within 6 months prior to the start of the project)

☒ Establish and Maintain Project Centerline or Engineer Approved Offset Line(s)

☒ Verification and Maintenance of Horizontal and Vertical Control

☐ Verify or Determine existing grades and alignments

☐ Verify or Determine existing topography

☒ Clearing and Grubbing Limits (Section 201)

☒ Removal Limits (Section 202)

☐ Reset Items (Section 210)

☒ Excavation and Embankment (Section 203)

☒ Excavation

☒ Unclassified

☒ Stripping

☐ Muck

☐ Rock

☐ Borrow

☐ Other:

☐ Potholing

☒ Embankment

☒ Site Grading

☐ Erosion Control (Perm)

☐ Other:

☐ As Staked Earthwork Quantities (See General Notes)

☐ Landscaping

☐ Top Soil (Section 207)

☐ Seeding (Section 212)

☐ Mulching (Section 213)

☐ Planting (Section 214)

☐ Herbicide (Section 217)

☐ Other:

☐ Erosion Control (Section 208)

☐ Seeding (Temp)

☐ Silt Fence

☐ Erosion Bales

☐ Erosion Logs

☐ Riprap (Temp)

☐ Other:

☒ Roadway Bases

☐ Untreated Subgrade

☐ Treated Subgrade

☒ Aggregate Base Course (Section 304)

☐ Reconditioning

☐ PMBB - Plant Mix Bituminous Base

☐ Other:

Excavation	Slope Staking (Y/N)	Grid (Y/N)	Grade (Y/N)	Special Interval
	Y	N	Y	N
	Y	N	Y	N
	-	-	-	-
	-	-	-	-

Embankment	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

Roadway Bases	Grid (Y/N)	Grade (Y/N)	Special Interval	Special Offset
	-	-	-	-
	-	-	-	-
	N	Y	N	N
	-	-	-	-
	-	-	-	-

☒ Pavements

☐ HMA - Hot Mix Asphalt (Section 403)

☐ Concrete (Section 412)

☐ Heating & Scarifying Treatment

☐ Prime Coat, Tack Coat & Rejuvenating Agent (Section 407)

☐ Seal Coat or Chip Seal (Section 409)

☒ Other: ASPHALT MILLINGS

☒ Roadway Elements

☐ Curb and Gutter (Section 609)

☐ Drop inlets - alignment and grades (Section 604)

☐ Retaining Walls

☐ Guard Rail (Section 606)

☐ Sidewalk (Section 608)

☐ Overlay Stationing

☐ Other:

☐ Riprap (Perm) (Section 506)

☐ Slope and Ditch Paving (Section 507)

☐ Minor Structures

☐ Structure Excavation Limits (Section 206)

☐ Culverts (Section 603)

☐ Culverts w/ Headwalls and Wingwalls (Section 601)

☐ Concrete Box Culverts w/ Headwalls and Wingwalls

☐ Pipes (Section 603)

☐ Sanitary Sewer

☐ Storm Sewer

☐ Water

☐ Irrigation

☐ Miscellaneous

☐ Manholes (Section 604)

☐ Inlets (Section 604)

☐ Permanent Water Quality BMP (Section 208)

☐ Other:

☐ Major Structures - Overhead Signs (Section 614), Concrete Box Culverts, Bridges - and all other structures assigned a structure number

☐ Structure Excavation limits (Section 206)

☐ Concrete Box Culverts (Section 603) w/ Headwalls and Wingwalls (Section 601)

☐ Piling locations and cut off elevations (Section 502)

☐ Caisson locations and elevations (Section 503)

☐ Footing locations, alignment, and elevations

☐ Abutment/Pier locations, alignment, and elevations

☐ Wingwall skew angles/offsets

☐ Structural concrete form locations

☐ Substructure As-constructed survey required for Bridges (Subsection 601 .12) and Overhead signs (S-614-50)

☐ Bridge expansion joint(s) alignment and grade (longitudinal and transverse)

☐ Deck grades at Girder 10th or 'n' th point locations and elevations

☐ Slope and Ditch Paving (Section 507)

☐ Other:

☐ Fencing (Section 607)

☐ Temporary

☐ Permanent

☐ Sound Barrier

☐ Other:

☐ Delineators (Section 612)

☐ Temporary

☐ Permanent

☒ Lighting (Section 613) and Traffic Control Devices (Permanent) (Section 614)

☐ Signal pole locations and elevations

☐ Light pole locations and elevations

☒ Sign locations

☐ Field verify sign post locations, elevations, and lengths before fabrication.

☐ Other:

Pavements	Grid (Y/N)	Special Interval	Special Offset
	-	-	-
	-	-	-
	-	-	-
	N	N	N

Curb & Gutters	Tangent Interval	Curve Interval	Special Offset
	-	-	-

Stationing	Left Interval	Center Interval	Right Interval
	-	-	-

☒ Pavement Marking (Section 627)

☐ Striping (Temp)

☒ Striping (Perm)

☐ Symbols

☐ Other:

☐ Temporary Lighting and Construction Traffic Control Devices (Section 630)

☐ Signal pole locations and elevations (Temp)

☐ Light pole locations and elevations (Temp)

☐ Sign Locations (Temp)

☐ Other:

☐ All Easements (Temp Staking by P.L.S. Only)

☒ Right of Way (Temp Staking by P.L.S. Only)

WORK PERFORMED BY THE CONTRACTOR'S SURVEYOR UNDER SECTION 629:

☐ Monumentation (Section 629)

☐ Control

☐ Right of Way

☐ Land corners, Aliquot corners

☐ Easements

☐ Reference the specified existing monuments:

☐ Replace the specified existing monuments:

☐ Locate monuments. It is estimated hours are required.

NOTE: All 629 items shall include adequate research, calculations, and evaluations of evidence for monuments to be set.

** A Tabulation of Survey Monuments may be provided on the plans.

GENERAL NOTES:

- Unless indicated otherwise on this Survey Tabulation Sheet, all survey work and staking intervals shall be done in accordance with the latest edition of the CDOT Survey Manual.
- Adequate information for establishing lines, grades, and locations for all work items have been specified on the plans. Any additional information required to stake the item or element shall be generated by the Contractor's surveyor.
- The Contractor's surveyor shall provide an estimate of the man-hours necessary to complete the work items indicated on this sheet. A copy of this sheet, with the estimated man-hours written on the blank line to the left of the specified items, shall be submitted with the Survey Schedule to the Engineer 5 days prior to the Presurvey Conference - Construction Survey.
- Stakes and Monuments which are damaged or destroyed by the progress of construction shall be replaced by the Contractor at no additional cost to the Department.
- The Contractor shall furnish an As Staked (or 3D Design Modeling Electronic Files) Earthwork Quantity report to the Engineer prior to completion of twenty percent (20%) of the planned earthwork in any phase as per the CDOT Survey Manual. A printed copy of the As Staked (or 3D Design Modeling Electronic Files) Earthwork data report and a computer disk with that information on it, in the specified format shall be submitted to the Engineer. The Contractor shall field verify original ground cross sections at a maximum 500 feet intervals.
- Prior to beginning work on any subsequent operation, such as placing base course or paving, the Contractor shall certify in writing to the Engineer that the final grade is within specified tolerance.
- The Contractor's surveyor shall perform all field surveying and calculations necessary to tie plan grades into field grades.
- The Contractor shall coordinate construction staking on the project with any utility work.
- Fieldbooks shall contain daily records of points set and or measurements observed. The information recorded shall contain: date, crew members' names, point no., description, staking information, and sketches. If the survey information is collected electronically, information recorded shall be provided to the Project Engineer in a hard copy format that is intuitive, clear and related to the supplemental information recorded in the field books. All linear surveys, such as slope stakes and blue tops, shall have the station and offset information related to the measured information. Non-linear surveys such as structures staking shall have sketches relating electronic information, such as point numbers, to the sketch.
- The Contractor's surveyor shall submit the following fieldbooks to the Engineer:

☐ Horizontal Control (Primary & Secondary)

☐ Vertical Control (i.e. Benchmarks)

☐ Property Pin Ties

☒ Horizontal Alignment

☐ Grading

☐ Slope Staking

☐ Minor Structures

☐ Major Structures

☐ One fieldbook for each work category shown on this sheet

☐ Other Fieldbook(s):
- The Contractor's surveyor shall submit the following (prior to surveying on the project) to the Engineer:

☐ All required Instrument Calibrations

Print Date: 05/20/2021

File Name:

Horiz. Scale: 1"=XX'

Unit name

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Vert. Scale:

Unit leader

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Sheet Revisions

Date:

Comments

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Revised:

Void:

LEWIS PALMER TRAIL
SURVEY TABULATIONS

Designer: GG

Detailer: GG

Sheet Subset:

Structure Numbers

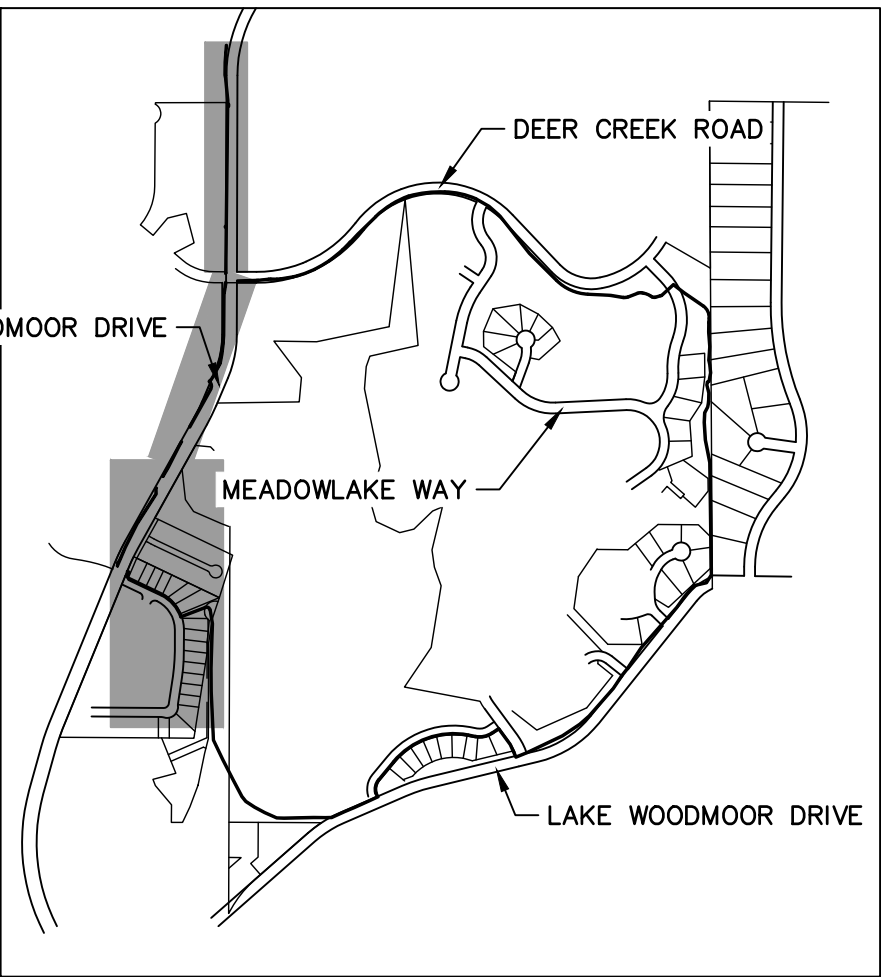
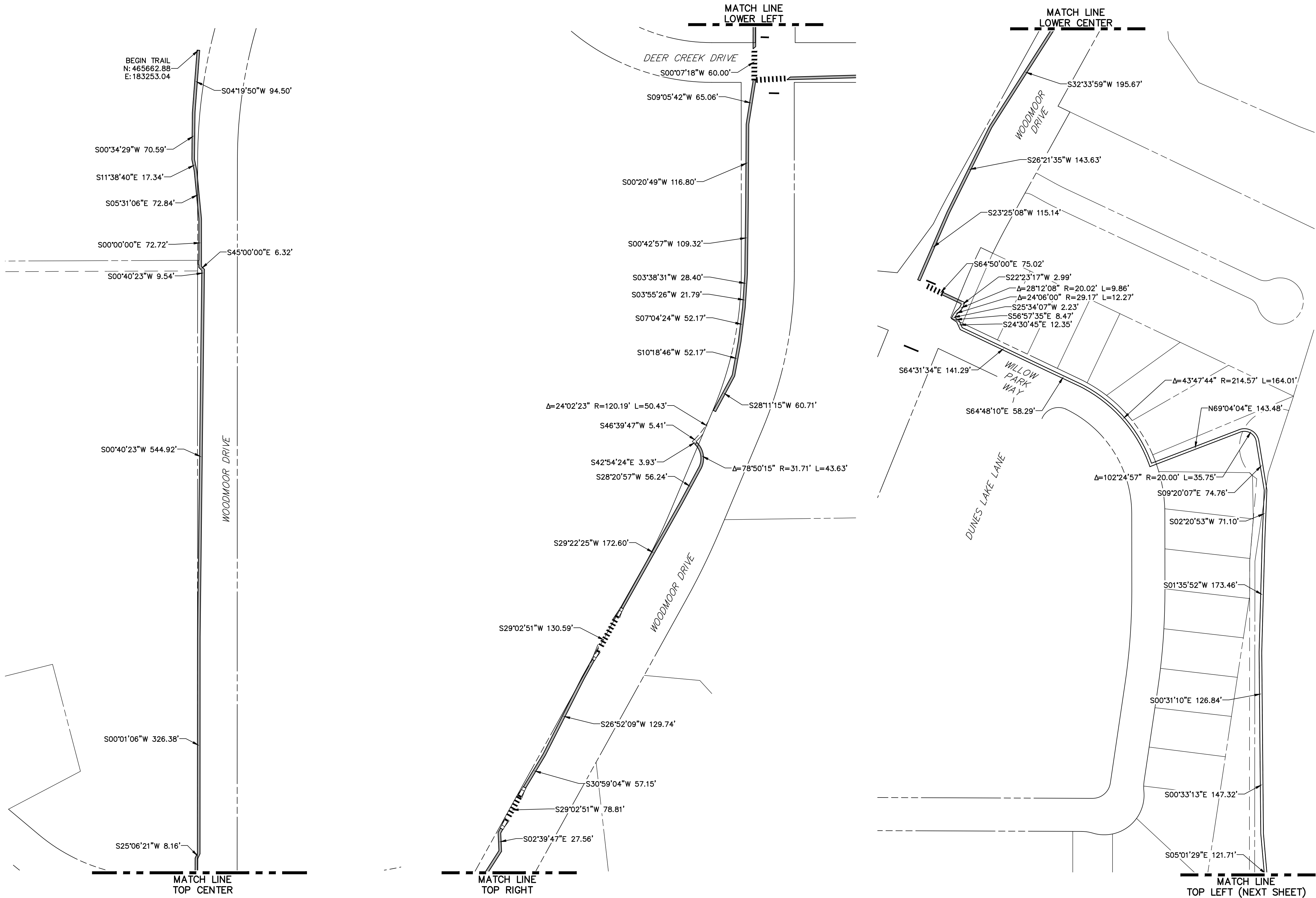
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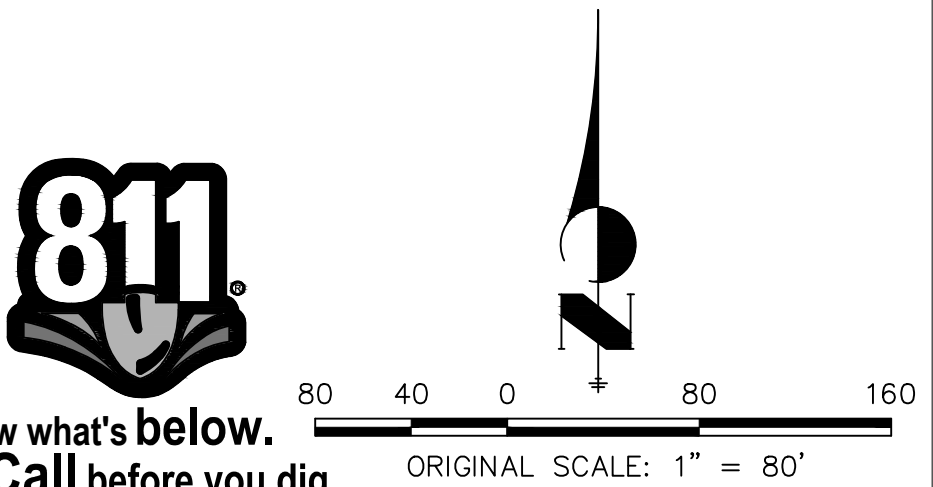
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2520300

Sheet Number 9 OF 41



KEY MAP
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Print Date: 05/20/2021

File Name:

Horiz. Scale: 1"=80' Vert. Scale: N/A


Unit name Unit leader

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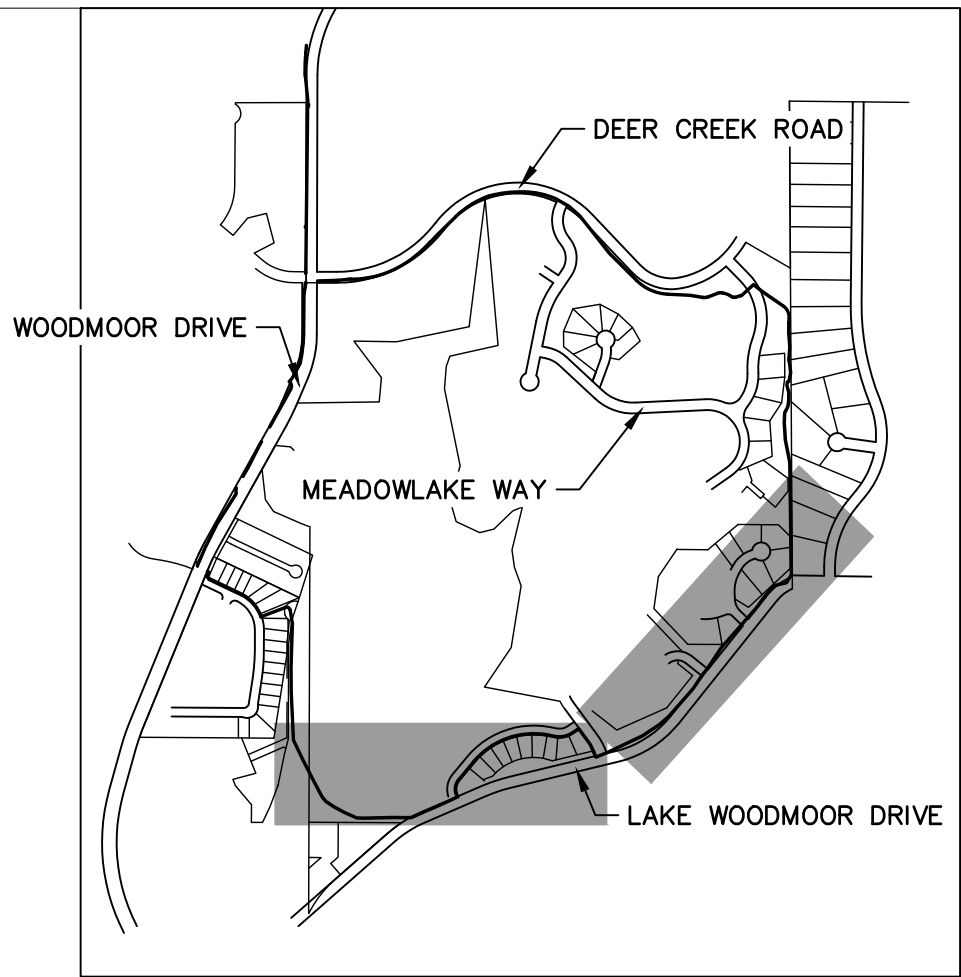
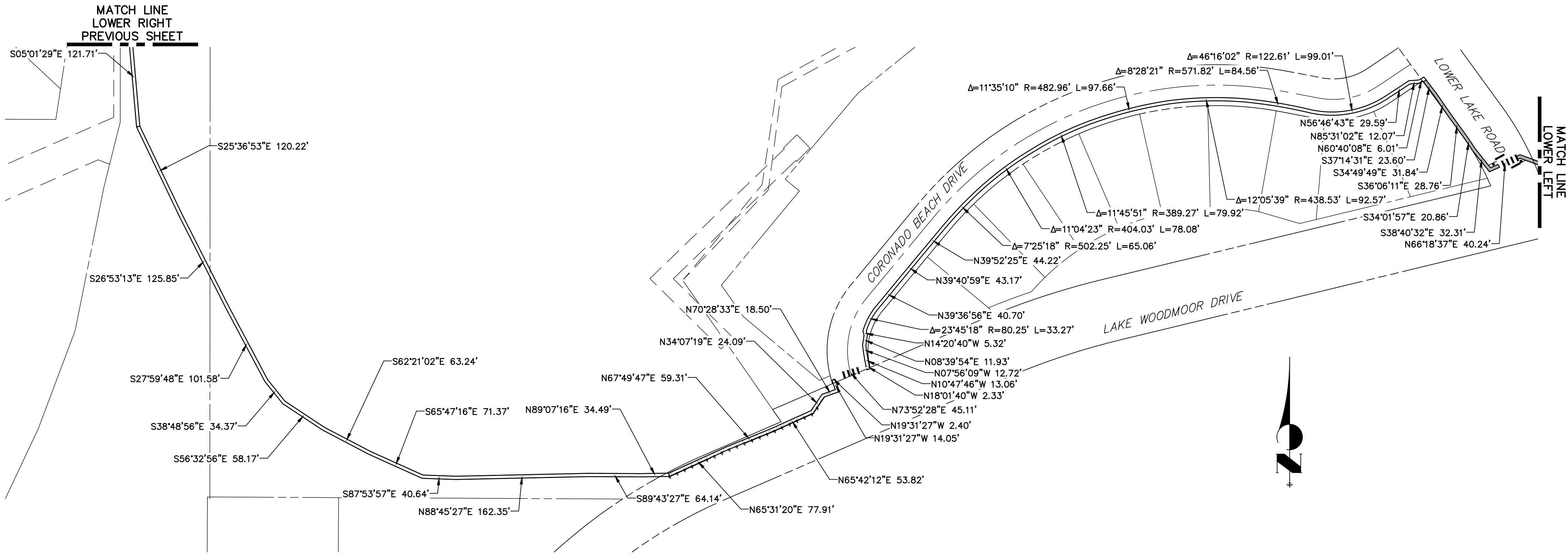
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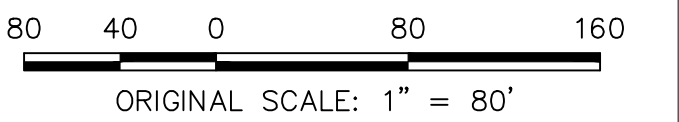
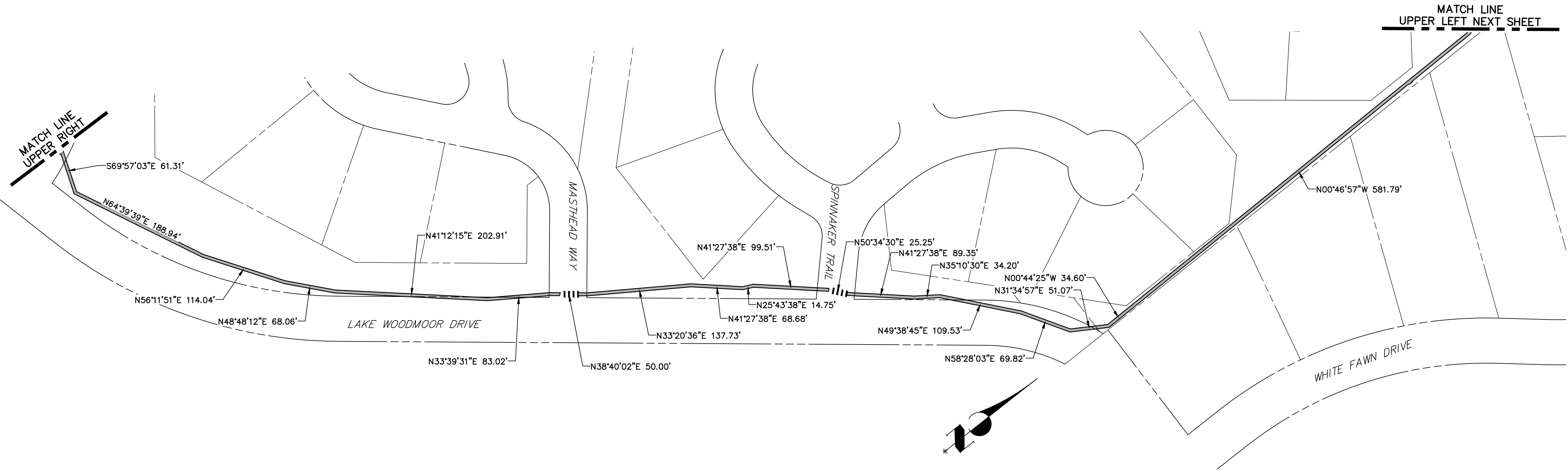
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Horiz. Scale: 1"=80' Vert. Scale: N/A
Unit name Unit leader
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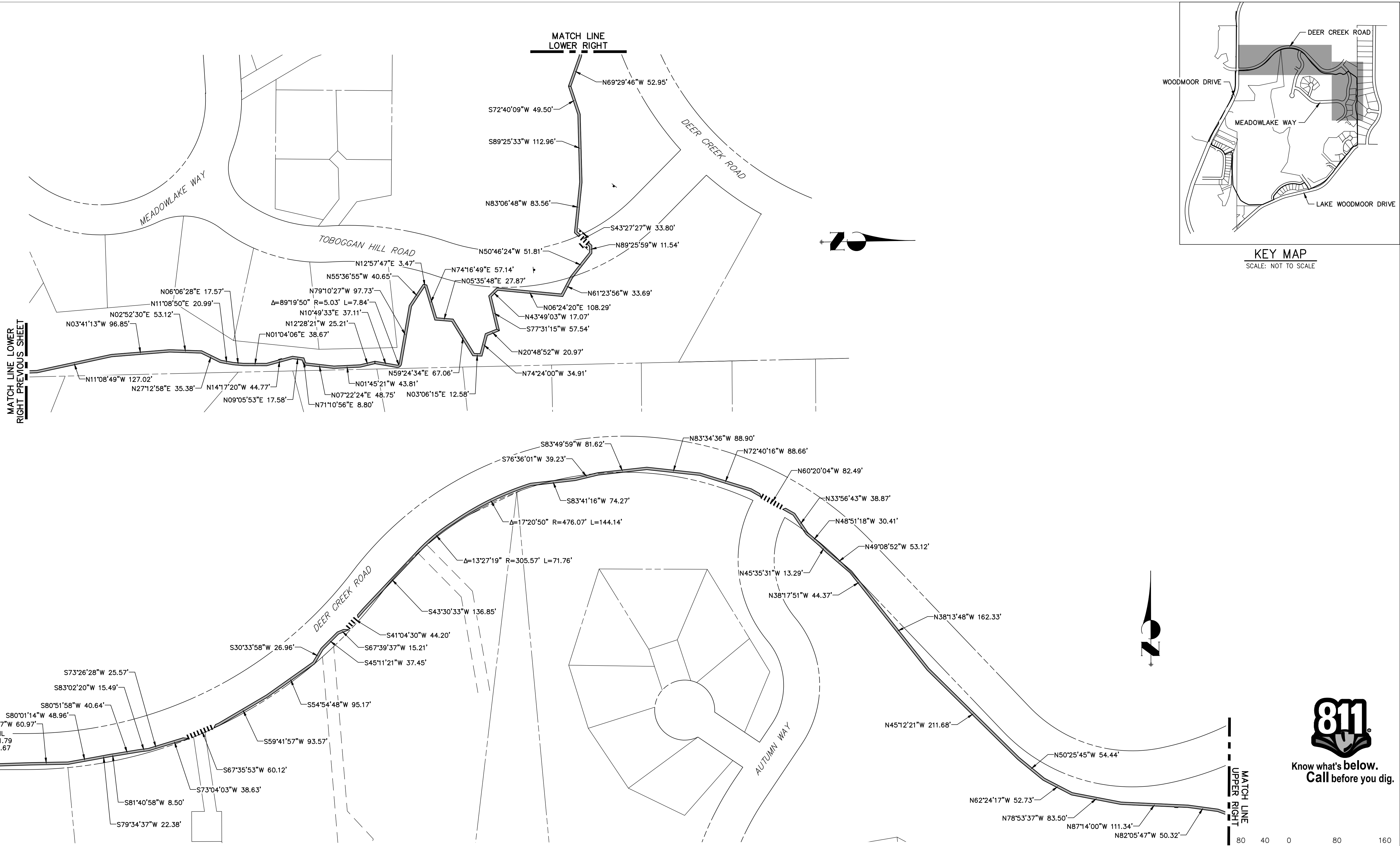
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Void:	Detailer:	GG	Numbers			
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Print Date: 05/20/2021

File Name:

Horiz. Scale: 1"=80'

Unit name

Unit leader

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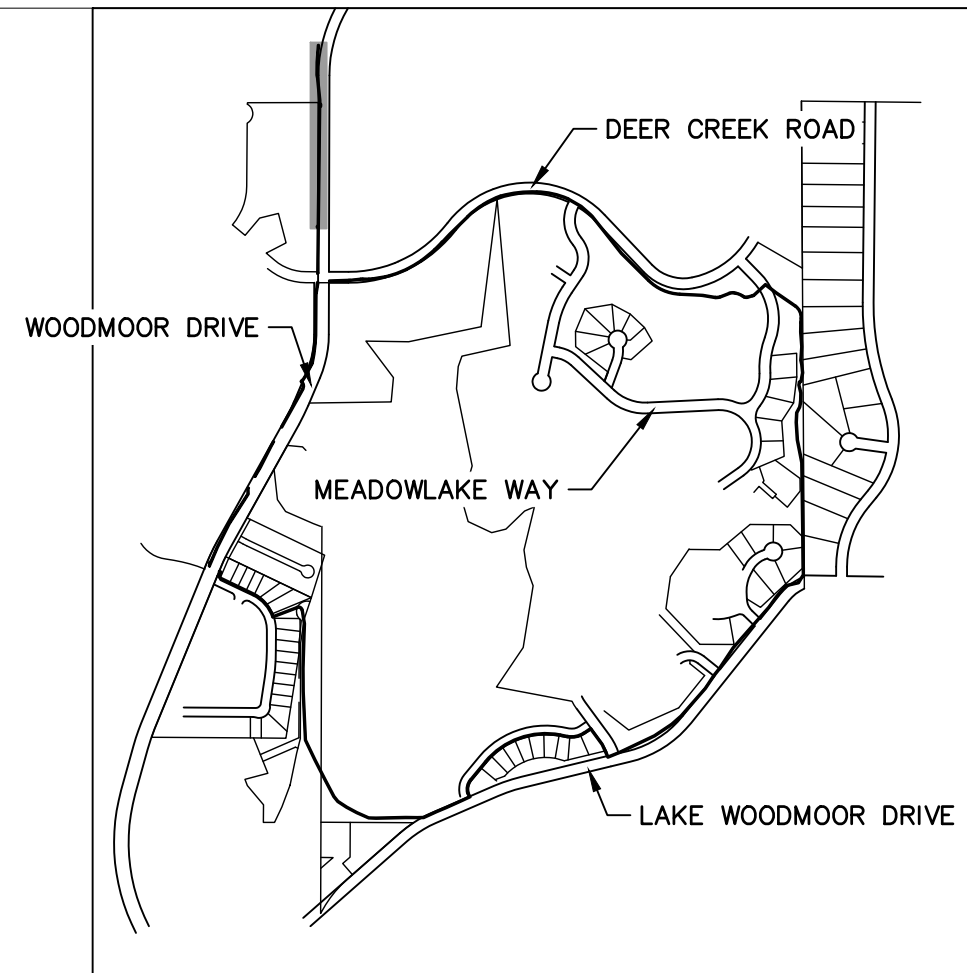
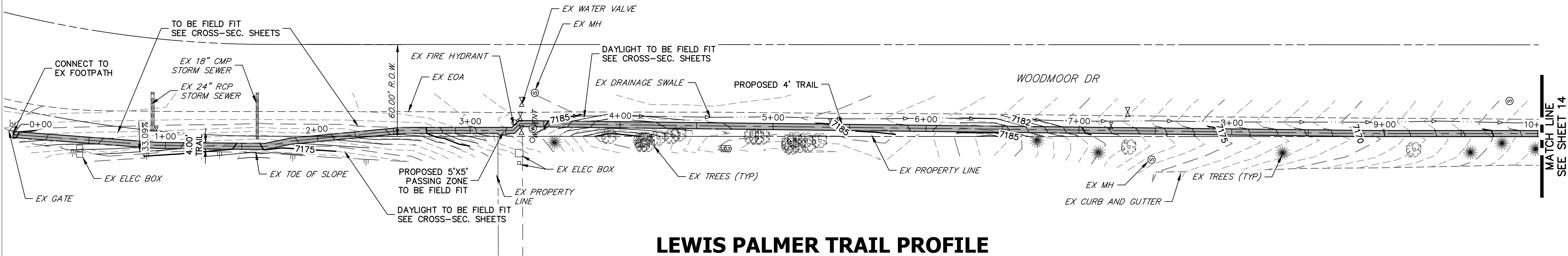
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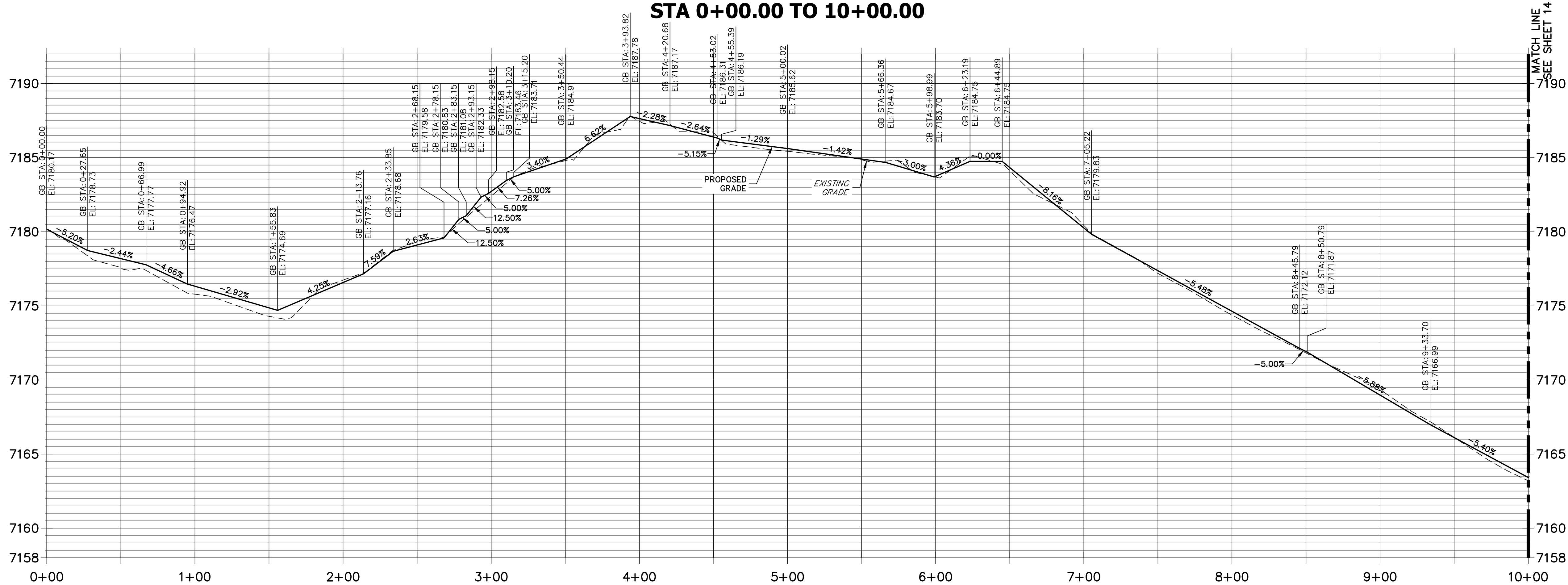
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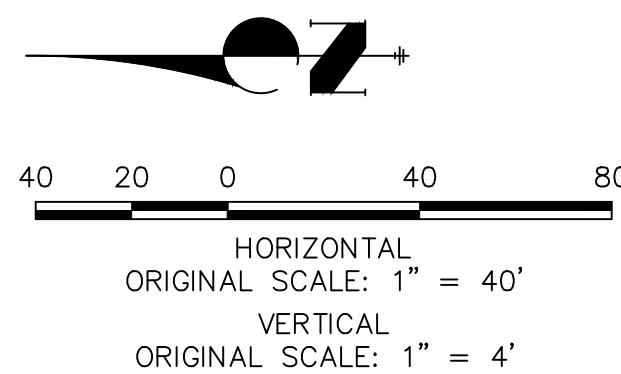


KEY MAP
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LEWIS PALMER TRAIL PROFILE
STA 0+00.00 TO 10+00.00



NOTE:
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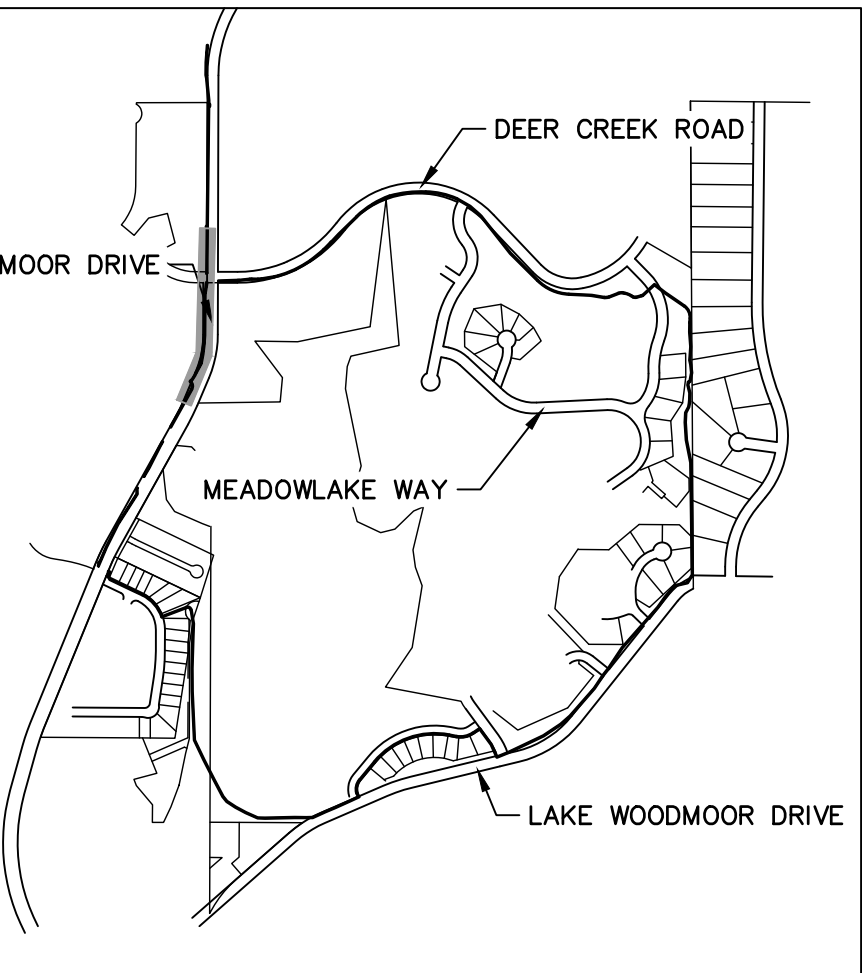
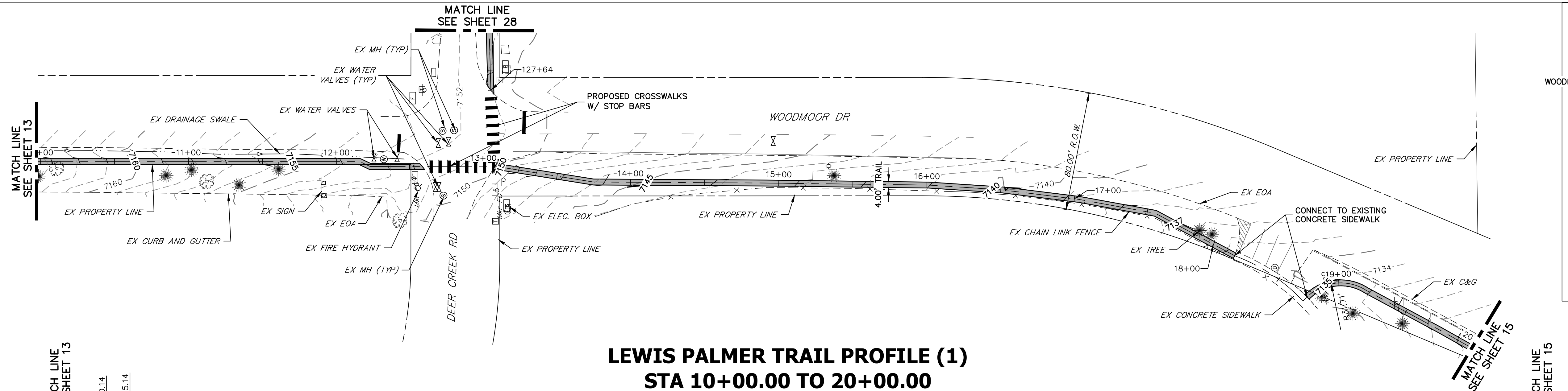
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Unit name Unit leader
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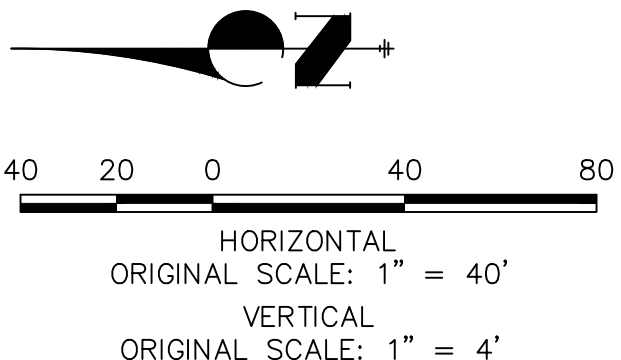
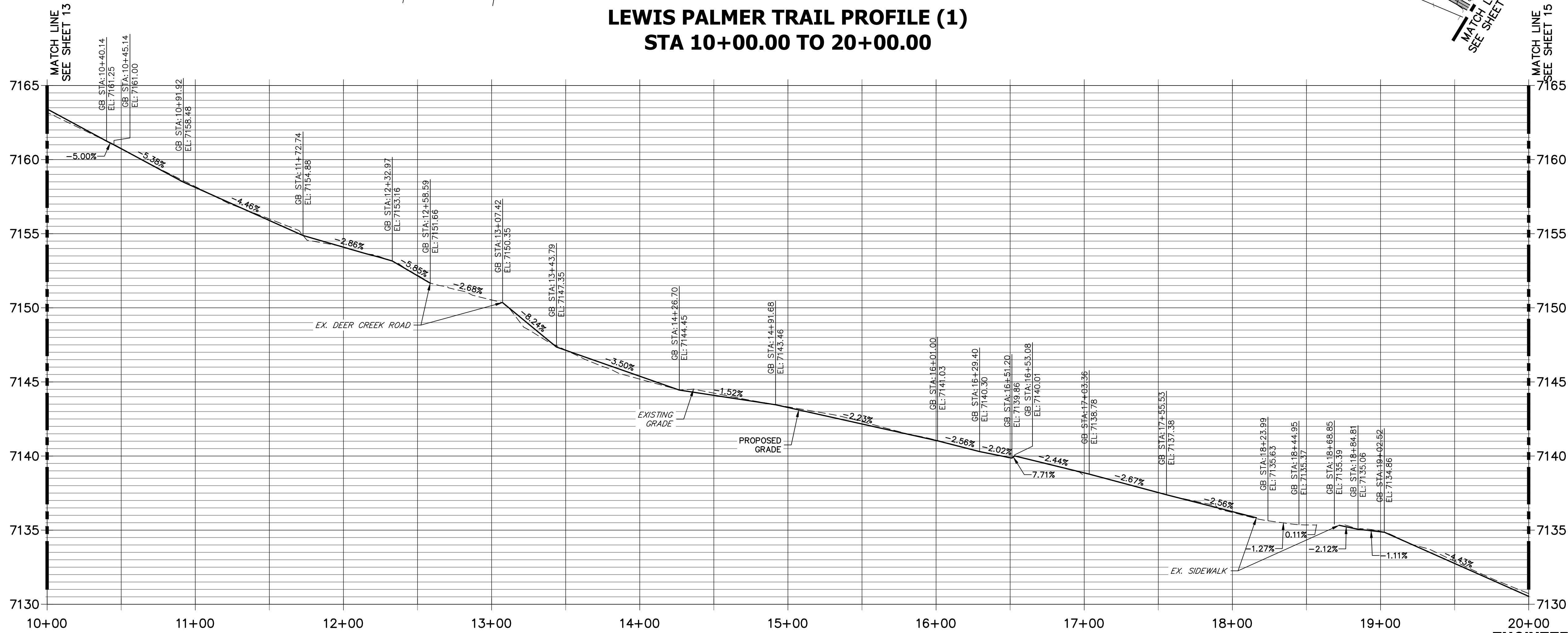
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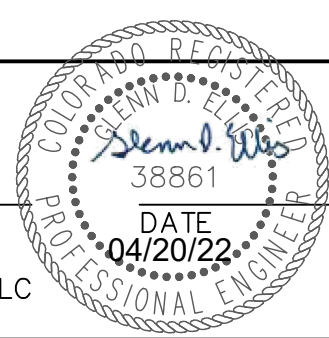
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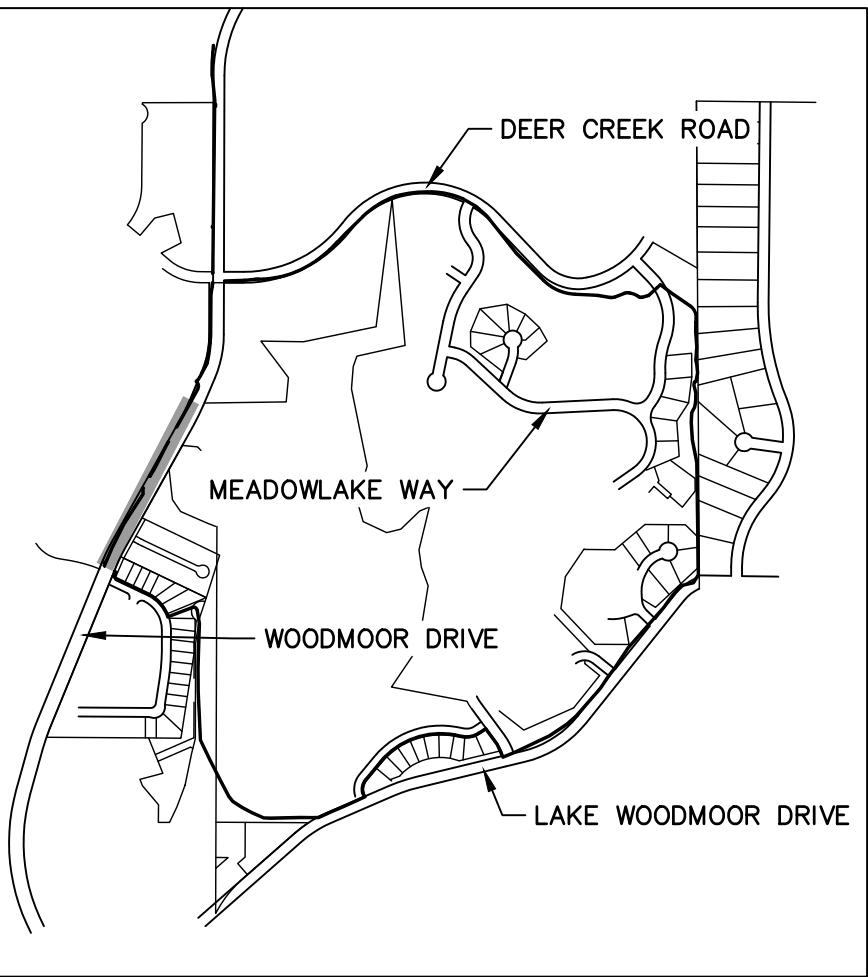
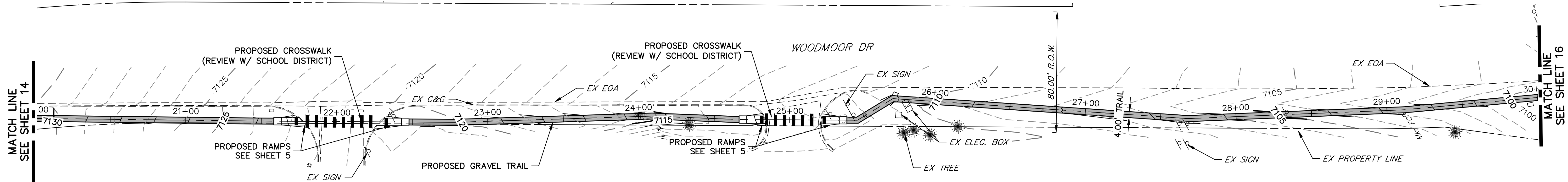
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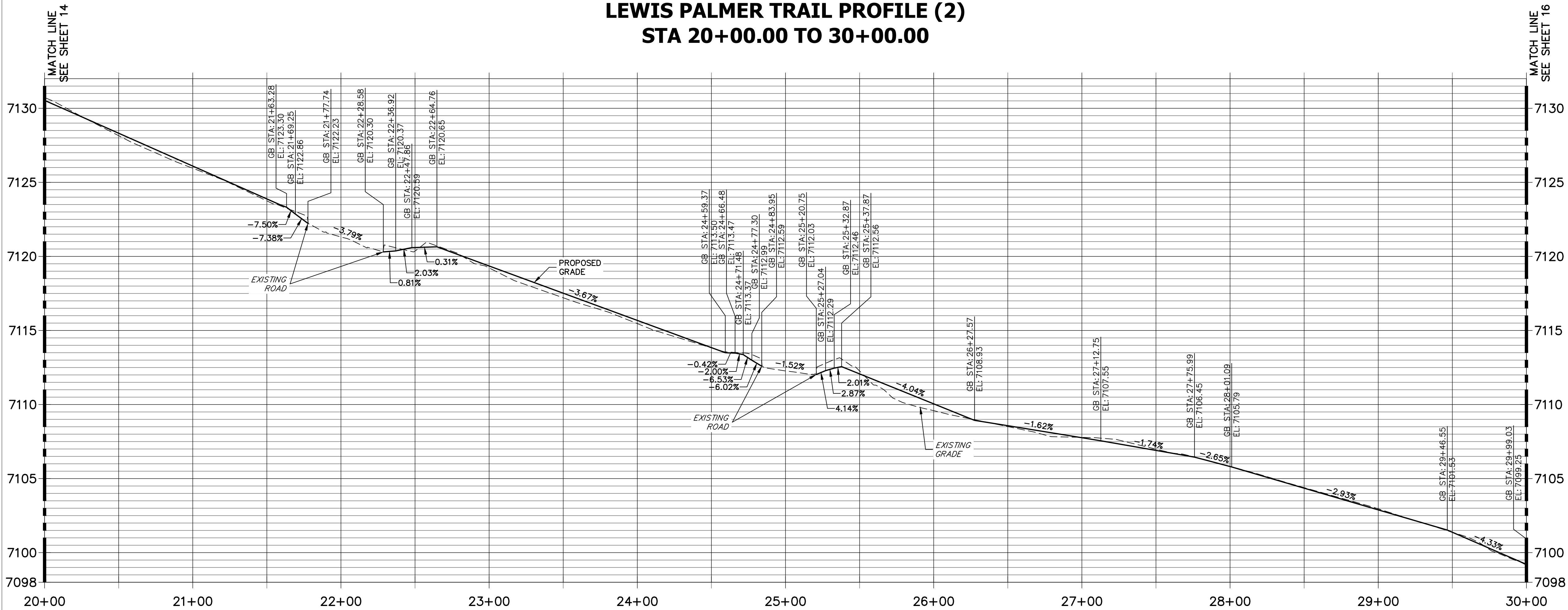
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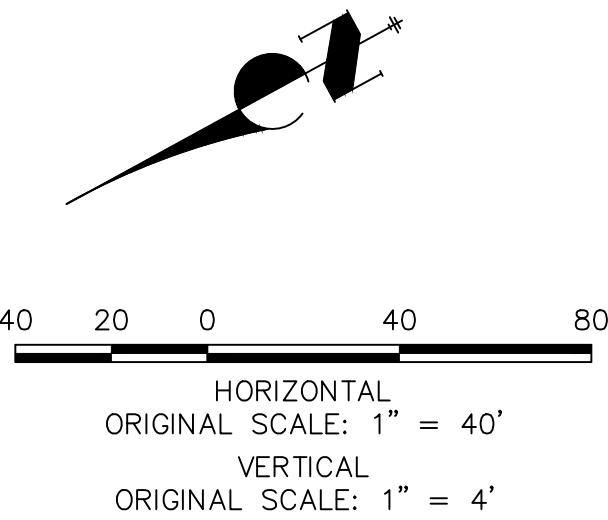


KEY MAP
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LEWIS PALMER TRAIL PROFILE (2)
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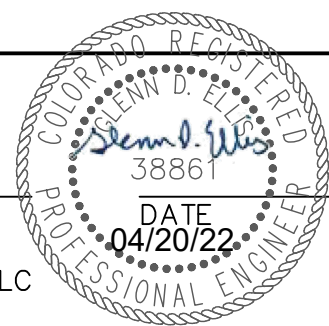
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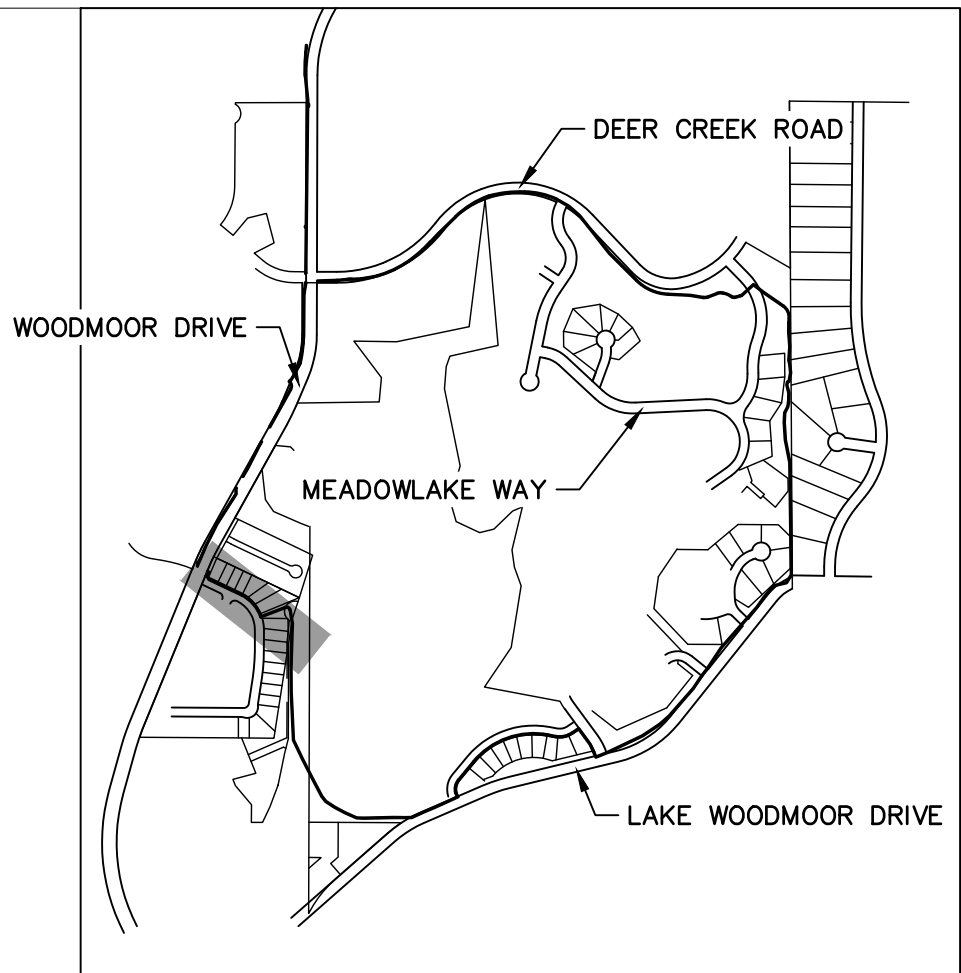
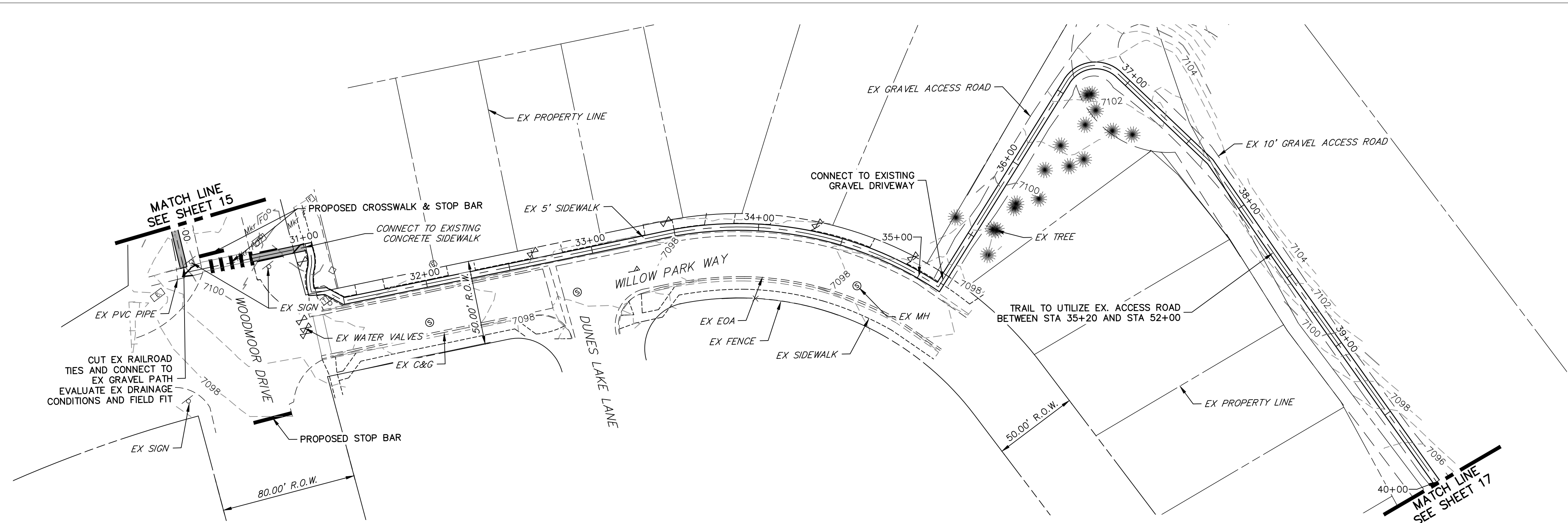
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Unit name Unit leader
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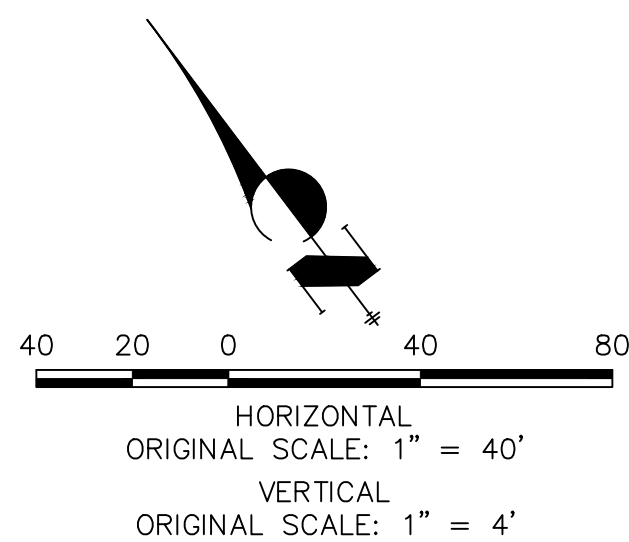
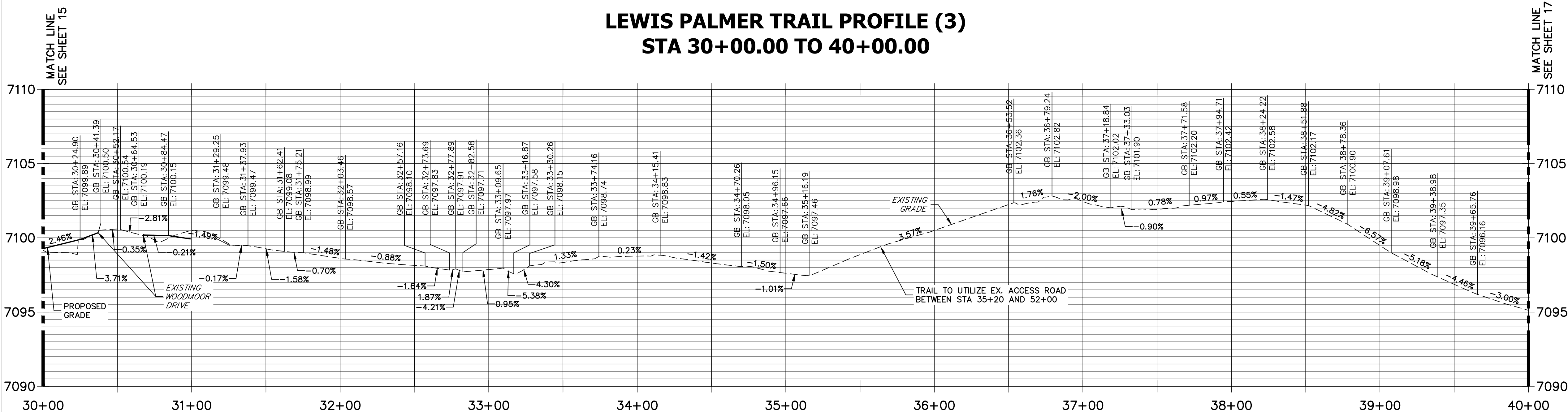
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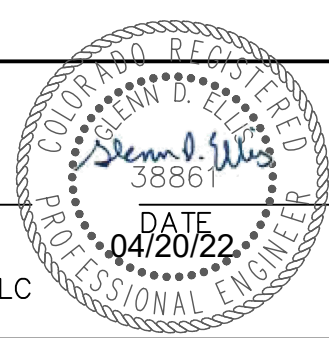
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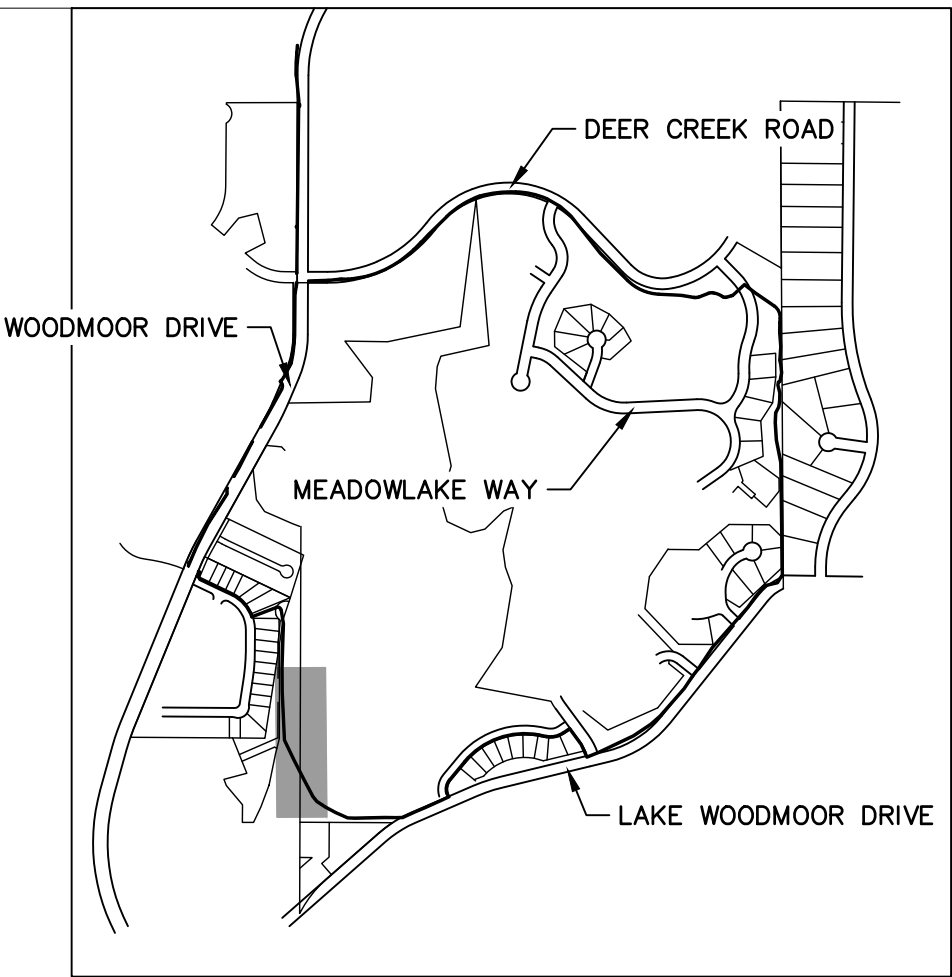


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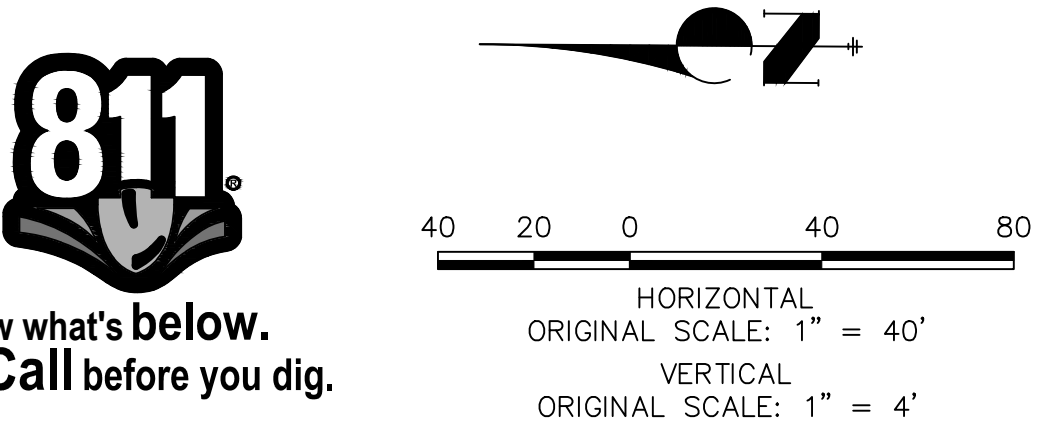
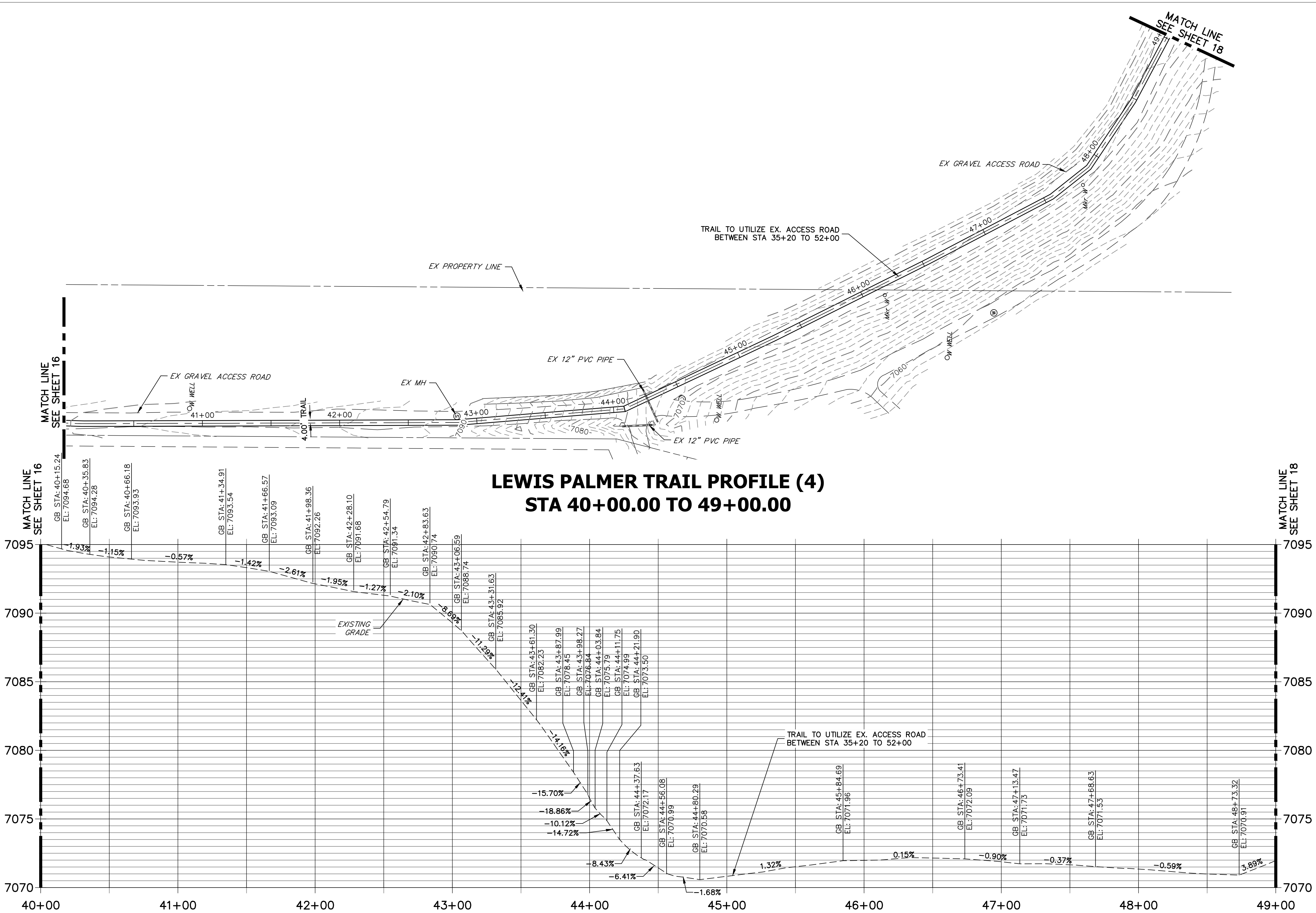
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Print Date: 05/20/2021

File Name:

Horiz. Scale: 1"=40' Vert. Scale: 1"=4'

Unit name Unit leader

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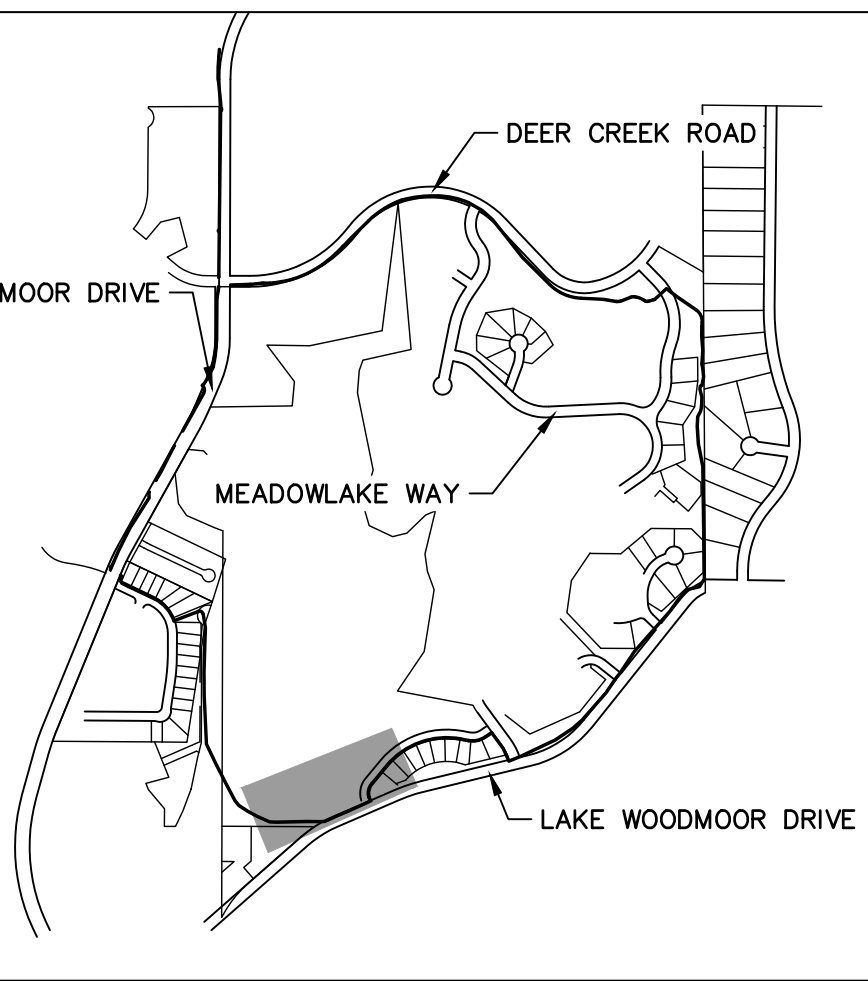
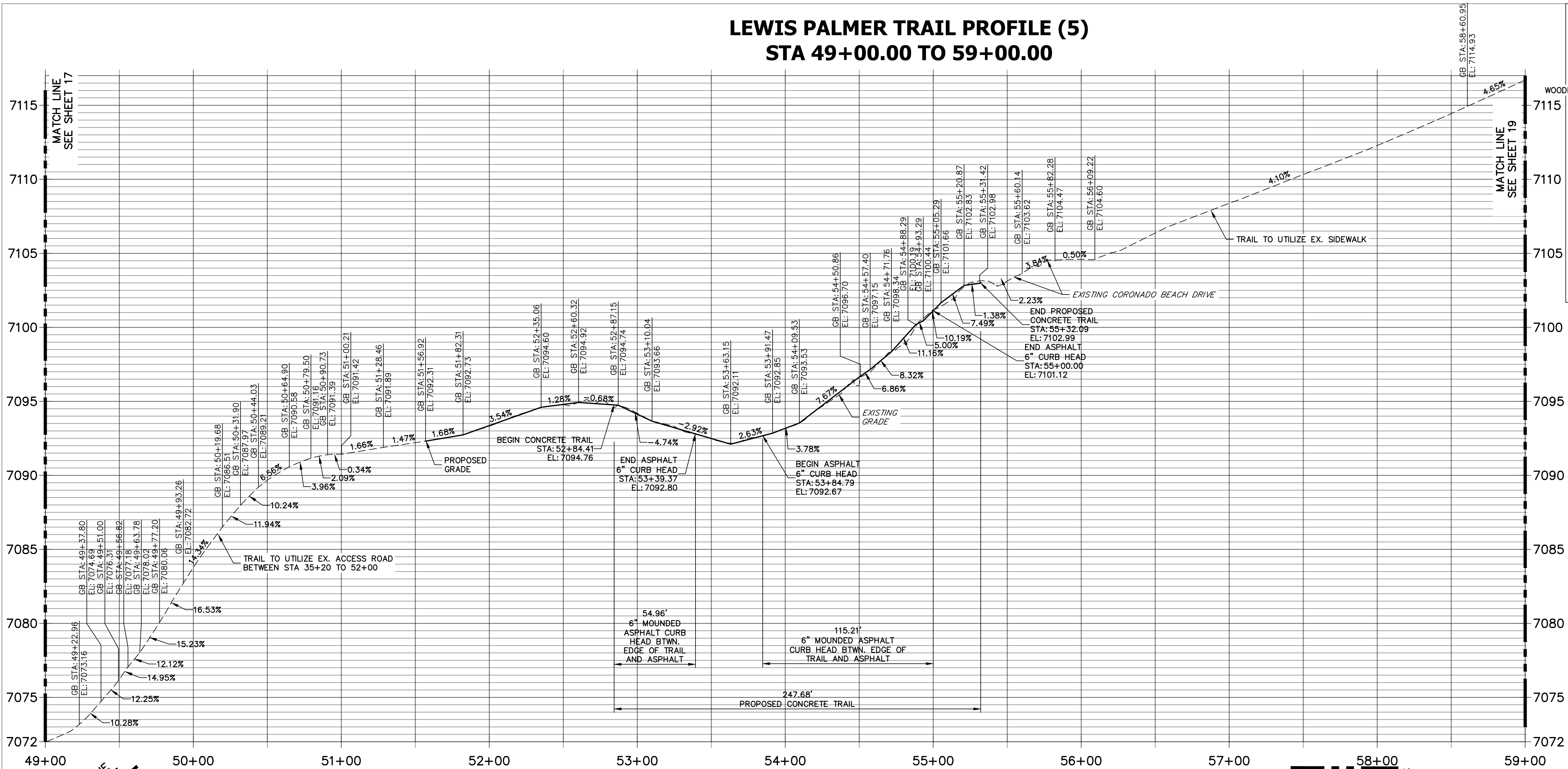
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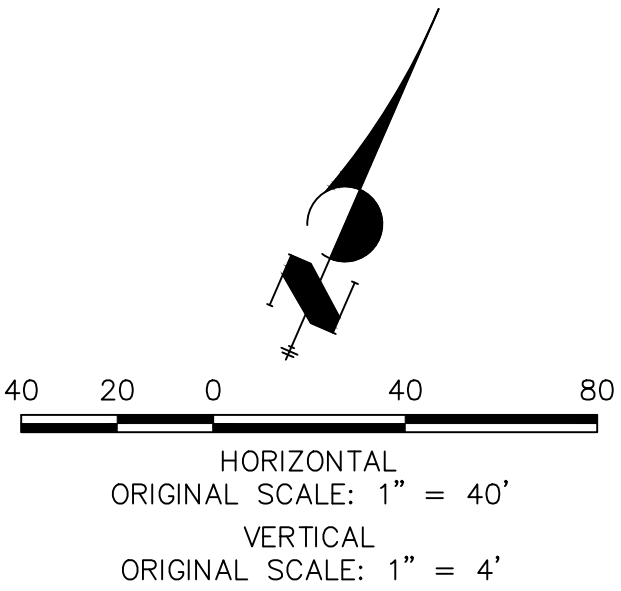
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LEWIS PALMER TRAIL PROFILE (5)
STA 49+00.00 TO 59+00.00



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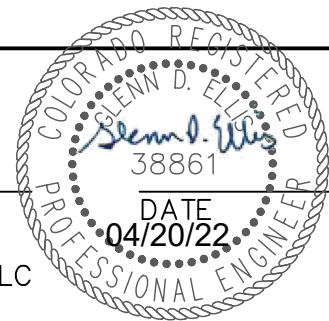


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Print Date: 05/20/2021

File Name:

Horiz. Scale: 1"=40'

Vert. Scale: 1"=4'

Unit name

Unit leader



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Structure

Numbers

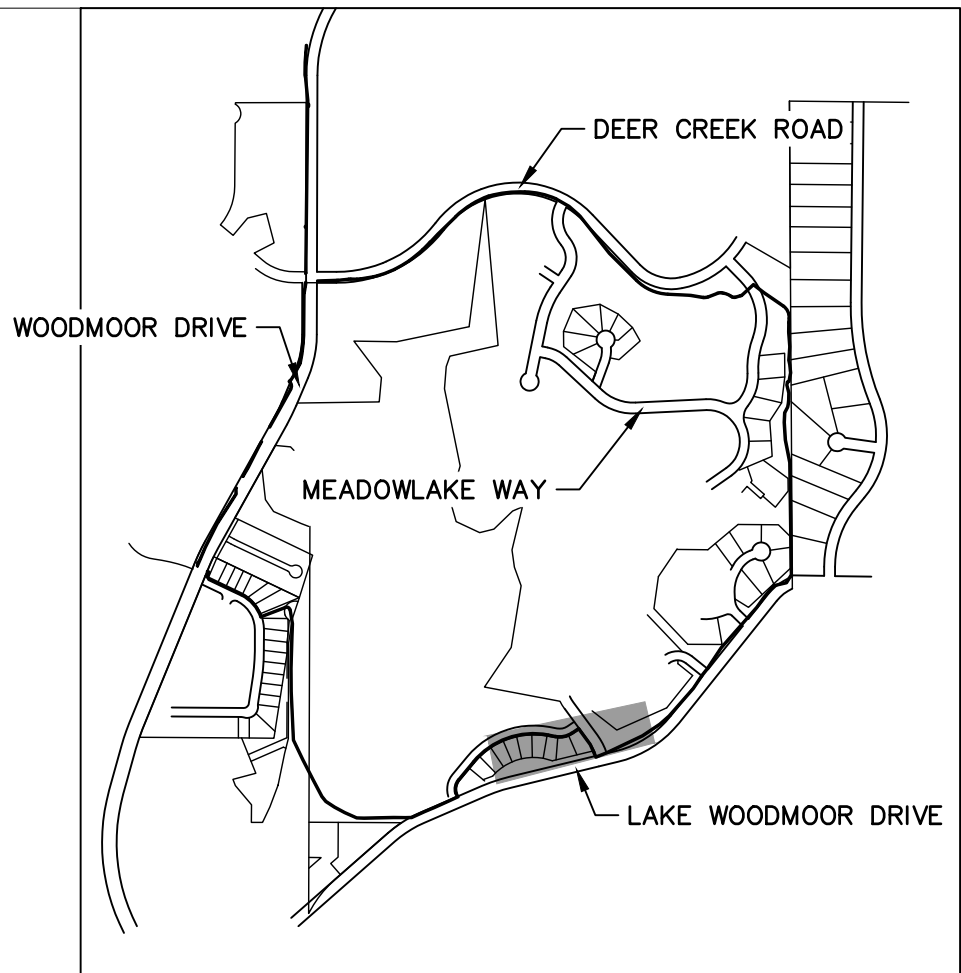
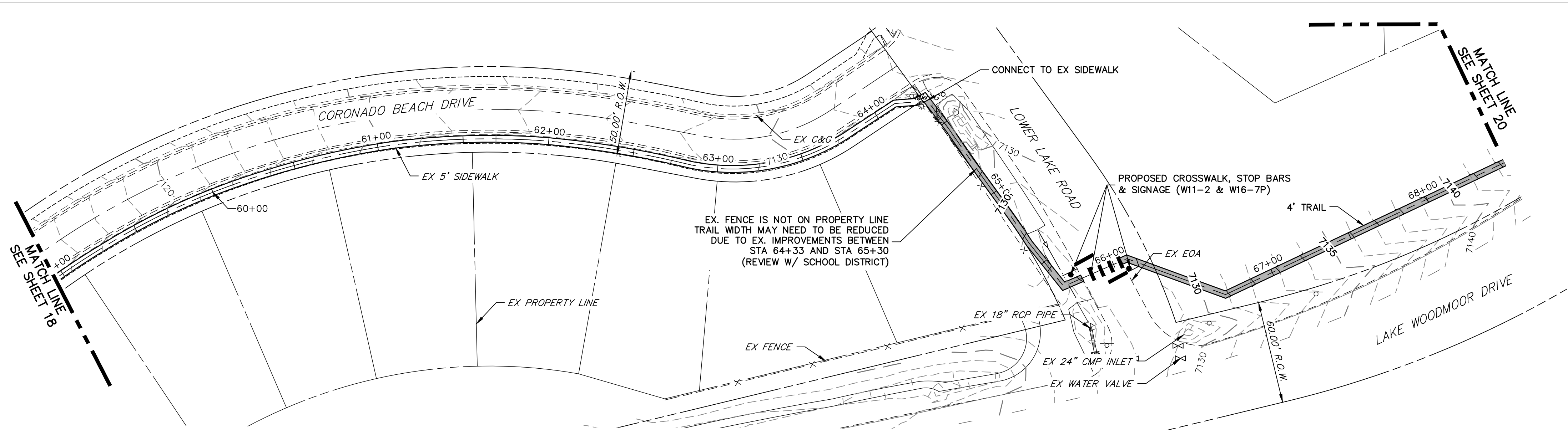
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Project No./Code

M915-009/22585

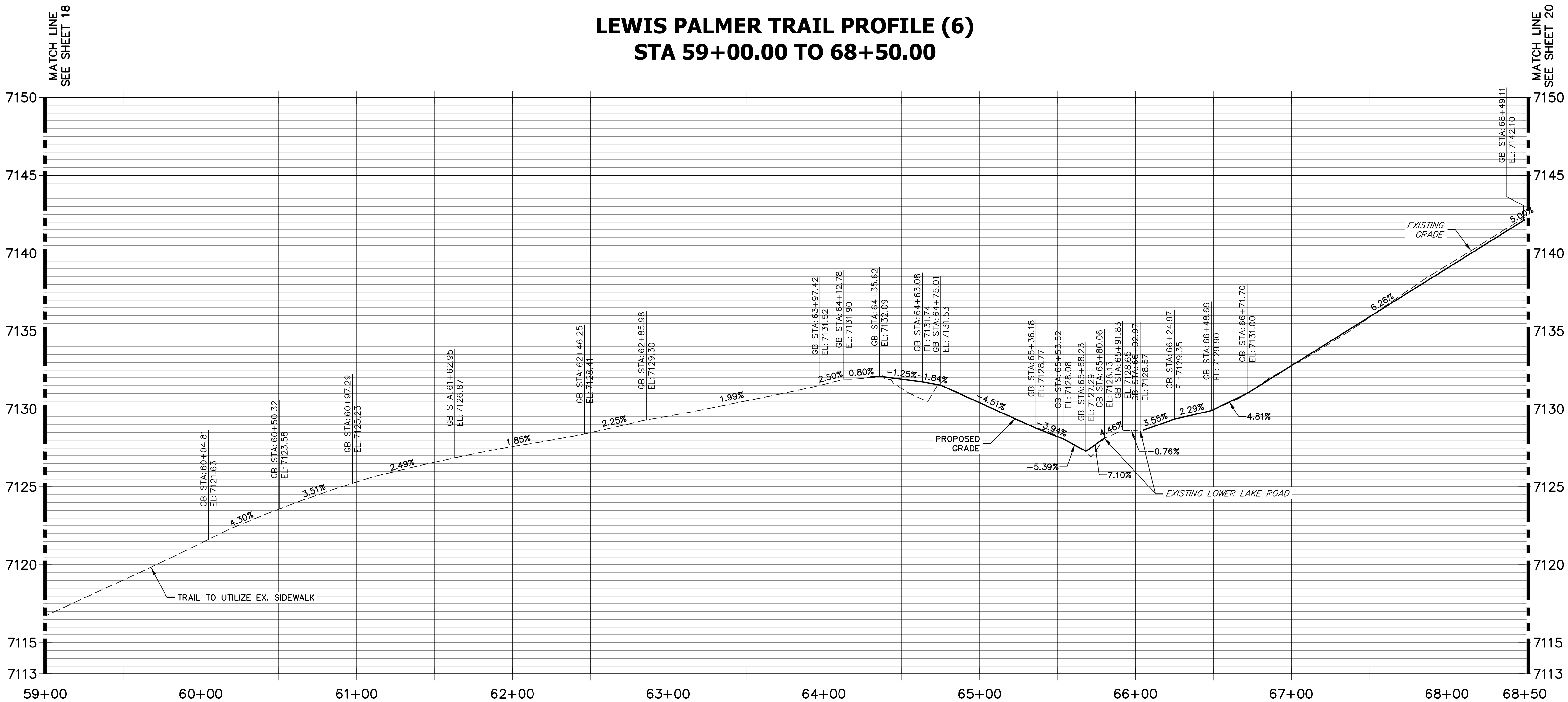
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Sheet Number 18 OF 41

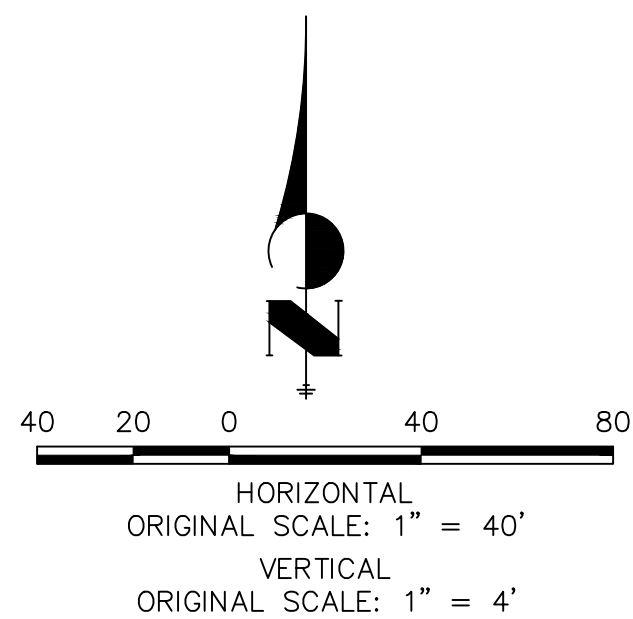


KEY MAP
SCALE: NOT TO SCALE

LEWIS PALMER TRAIL PROFILE (6) STA 59+00.00 TO 68+50.00



NOTE:
THE SURVEY OF EXISTING CONDITIONS WAS COMPLETED IN APRIL 2021. THERE ARE A NUMBER OF LOCATIONS ALONG THE CORRIDOR THAT HAVE BEEN MODIFIED BY OTHER WORK SINCE THEN (I.E. UTILITY AND GRADING) THAT ARE NOT REPRESENTED IN THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE TRAIL ALIGNMENT AND BECOMING FAMILIAR WITH THESE LOCATIONS. IF THE CONTRACTOR DETERMINES THAT CHANGES HAVE BEEN MADE THAT IMPACT THE TRAIL DESIGN, THE SCHOOL DISTRICT AND ENGINEER SHALL BE NOTIFIED PRIOR TO CONSTRUCTION OF THE SEGMENT OF TRAIL POTENTIALLY IMPACTED.



ENGINEER'S STATEMENT

PREPARED UNDER MY SUPERVISION

GLENN D. ELLIS, P.E.
COLORADO P.E. 38861
FOR AND ON BEHALF OF JR ENGINEERING, LLC



Print Date: 05/20/2021

File Name:

Horiz. Scale: 1"=40' Vert. Scale: 1"=4'

Unit name Unit leader

J-R ENGINEERING
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Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

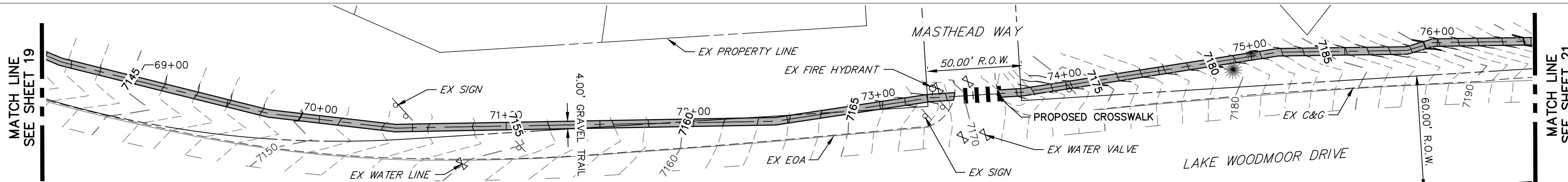
CDOT

5615 WILL BLVD.
Pueblo, CO 81008
Phone: 719-546-5750

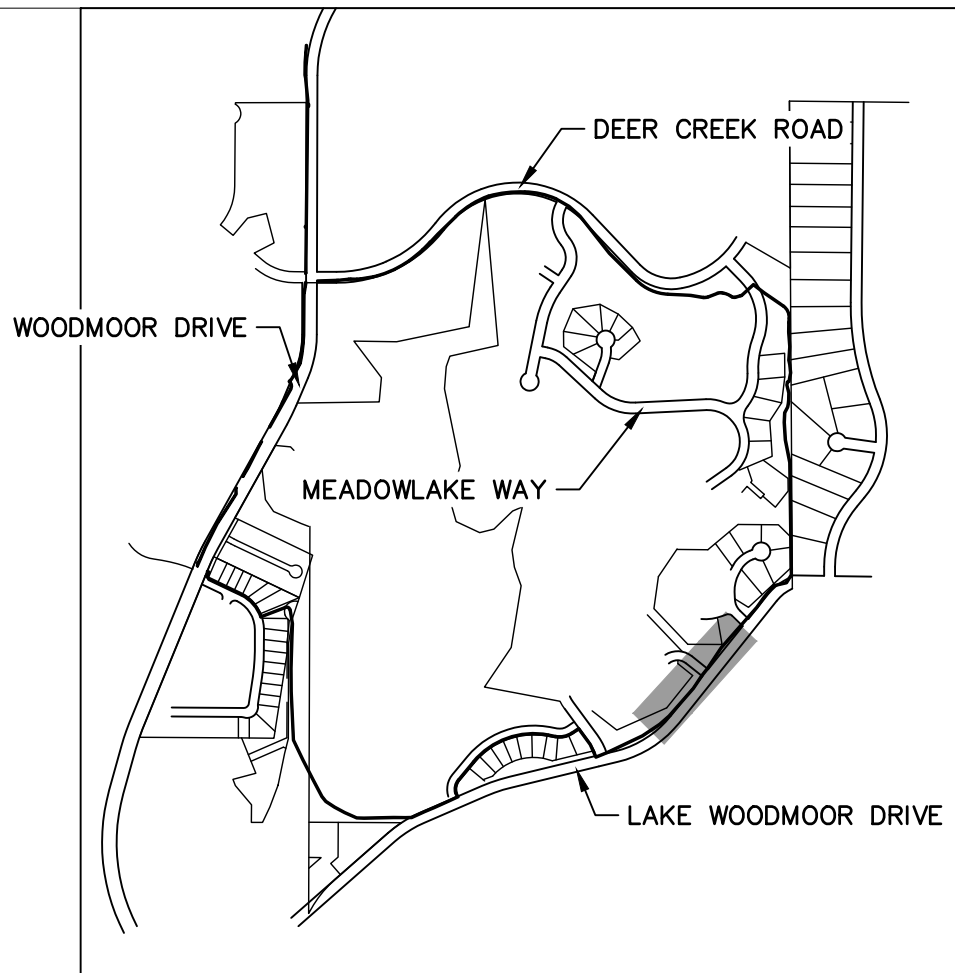
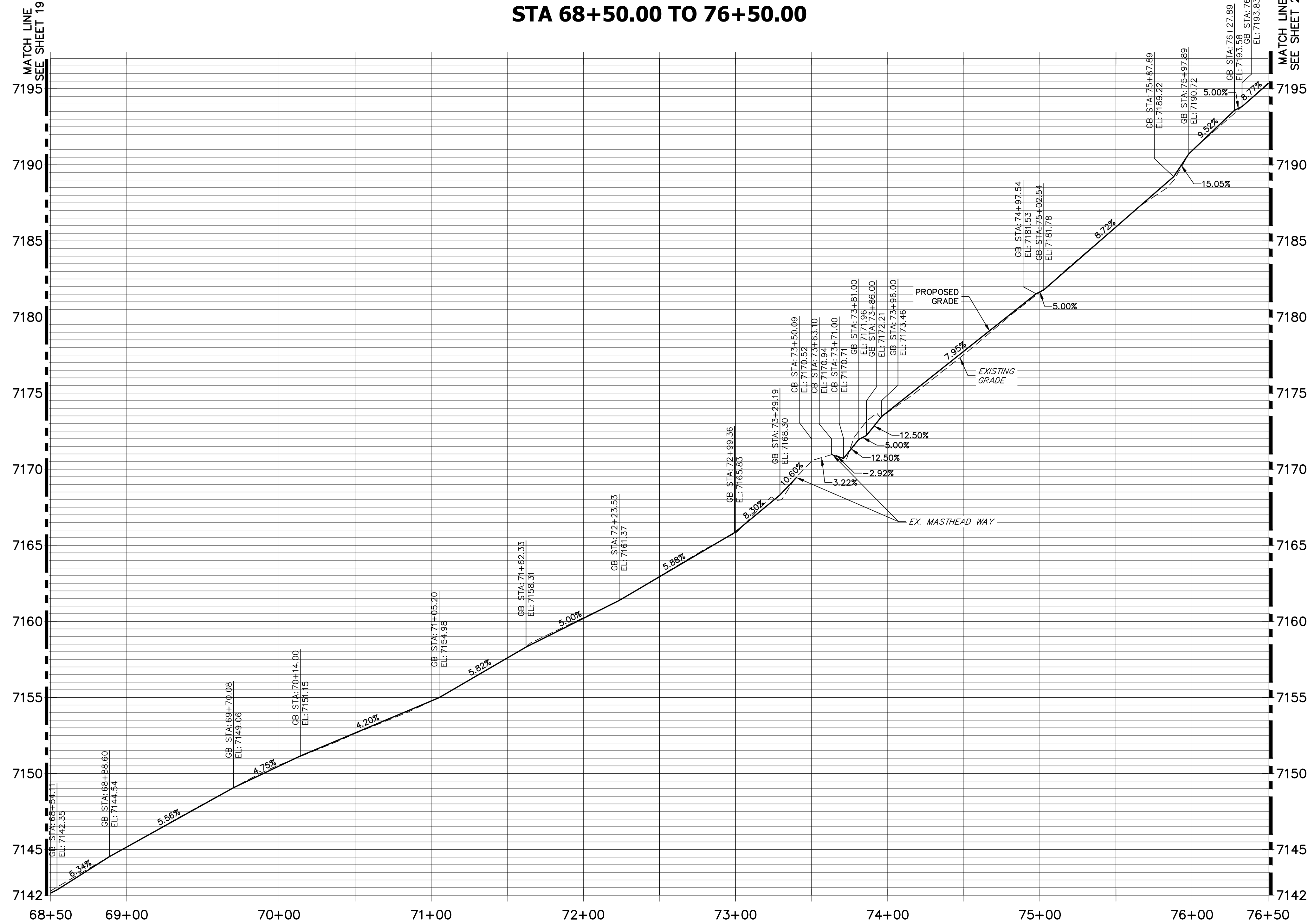
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Lewis Palmer School District 38

As Constructed		LEWIS PALMER TRAIL TRAIL PLAN AND PROFILE			Project No./Code	
No Revisions:					M915-009/22585	
Revised:		Designer:	GG	Structure	2520300	
		Detailer:	GG	Numbers		
Void:		Sheet Subset:		Subset Sheets:	OF	Sheet Number 19 OF 41



LEWIS PALMER TRAIL PROFILE (7)
STA 68+50.00 TO 76+50.00



KEY MAP
SCALE: NOT TO SCALE

NOTE:
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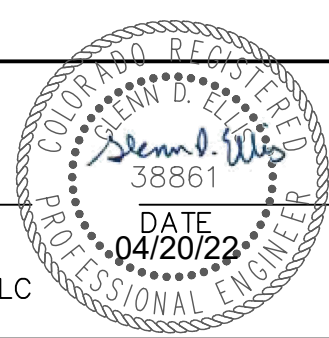
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HORIZONTAL
ORIGINAL SCALE: 1" = 40'

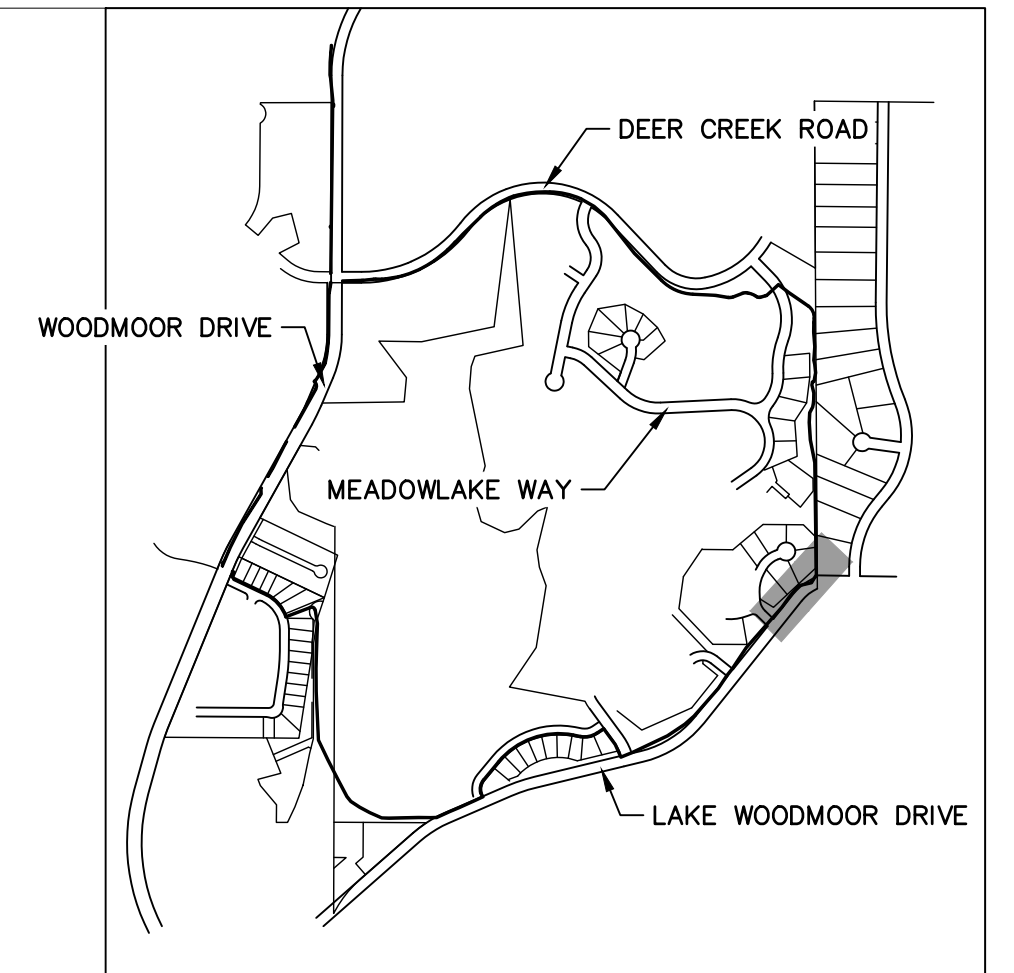
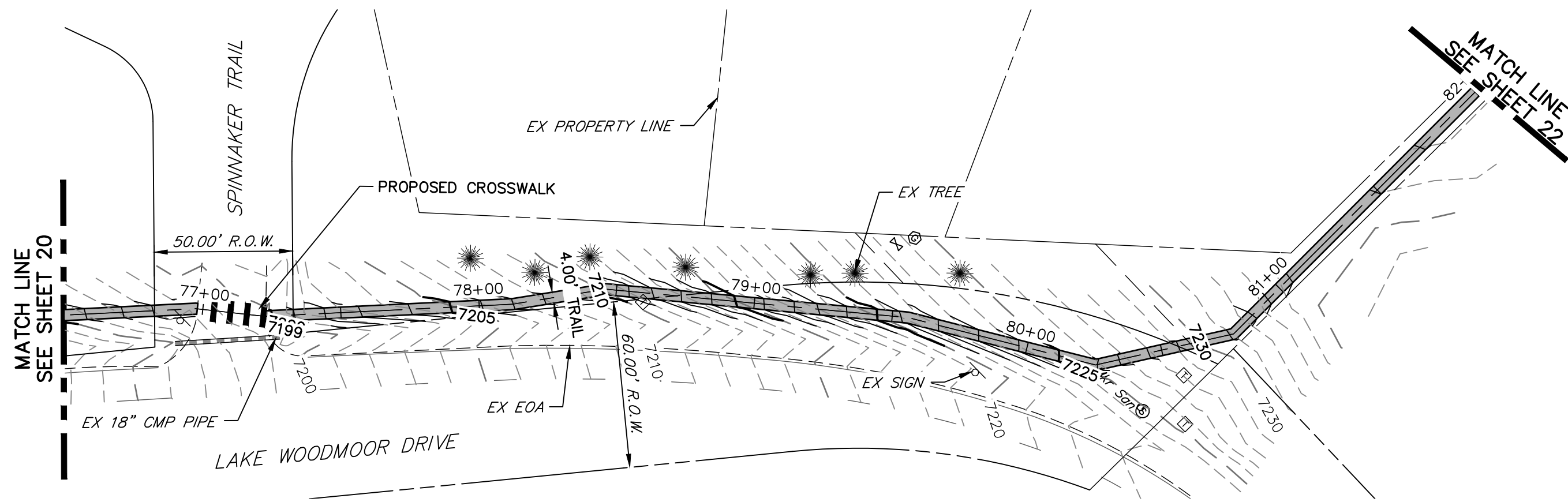
VERTICAL
ORIGINAL SCALE: 1" = 4'

ENGINEER'S STATEMENT
PREPARED UNDER MY SUPERVISION

GLENN D. ELLIS, P.E.
COLORADO P.E. 38861
FOR AND ON BEHALF OF JR ENGINEERING, LLC

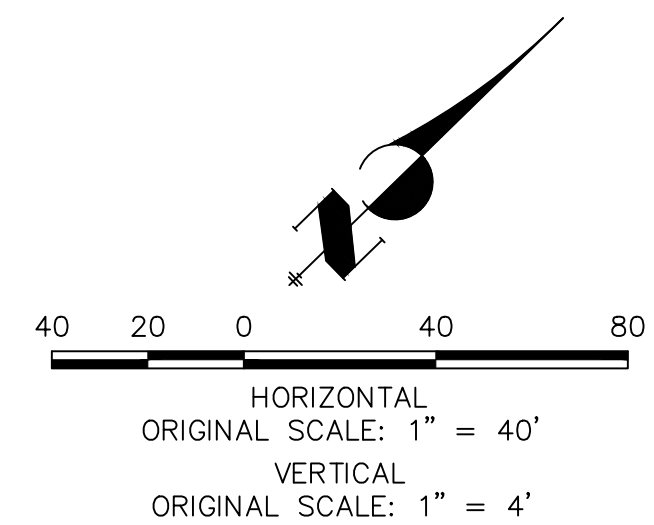
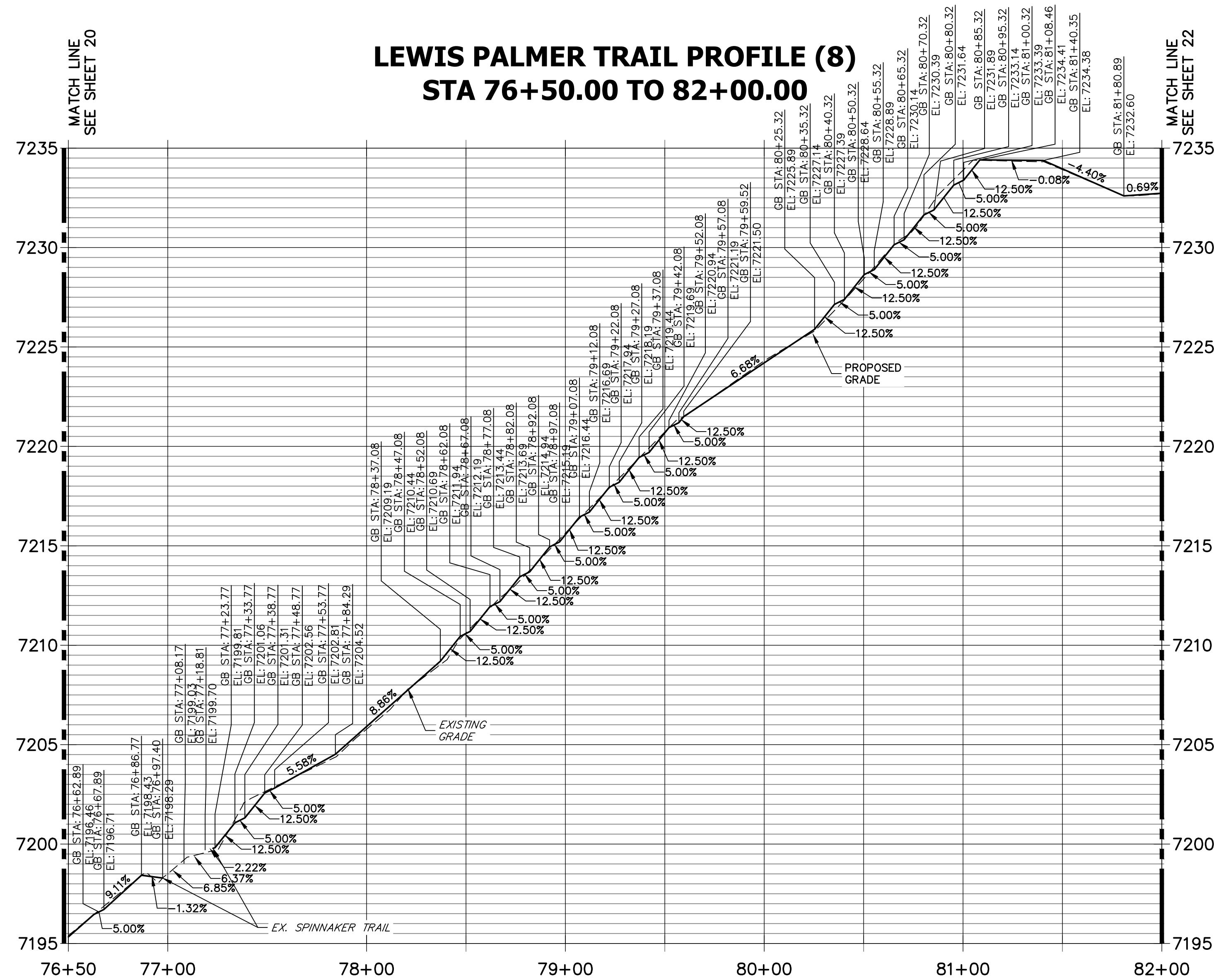


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File Name:		Date:		Comments		Init.		No Revisions:				M915-009/22585			
Horiz. Scale: 1"=40'								Revised:		Designer: GG		2520300			
Unit name								Void:		Detailer: GG		Sheet Numbers			
Unit leader										Sheet Subset:		Subset Sheets: OF			
<div><div></div><div><div>J-R ENGINEERING</div><div>A Westrian Company</div><div>Centennial 303-740-9393 • Colorado Springs 719-583-2593</div><div>Fort Collins 970-491-9888 • www.jrengineering.com</div></div></div>						<div><div></div><div>5615 WILL BLVD. Pueblo, CO 81008 Phone: 719-546-5750</div></div> <div><div>Region 2</div><div>Lewis Palmer School District 38</div></div>								Sheet Number 20 OF 41	



KEY MAP
SCALE: NOT TO SCALE

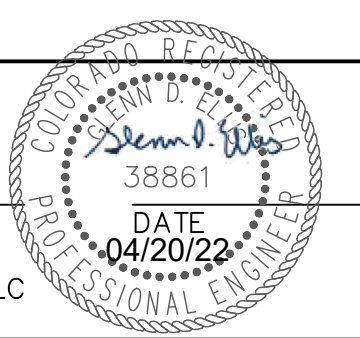
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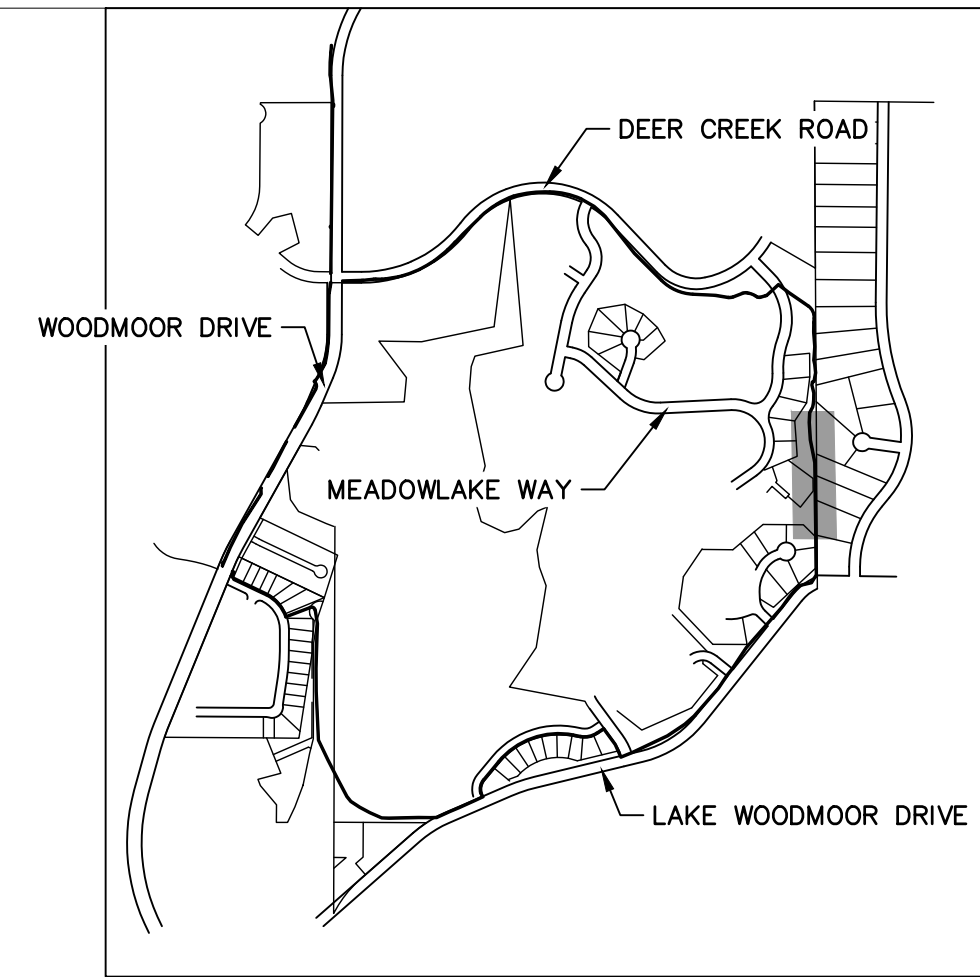
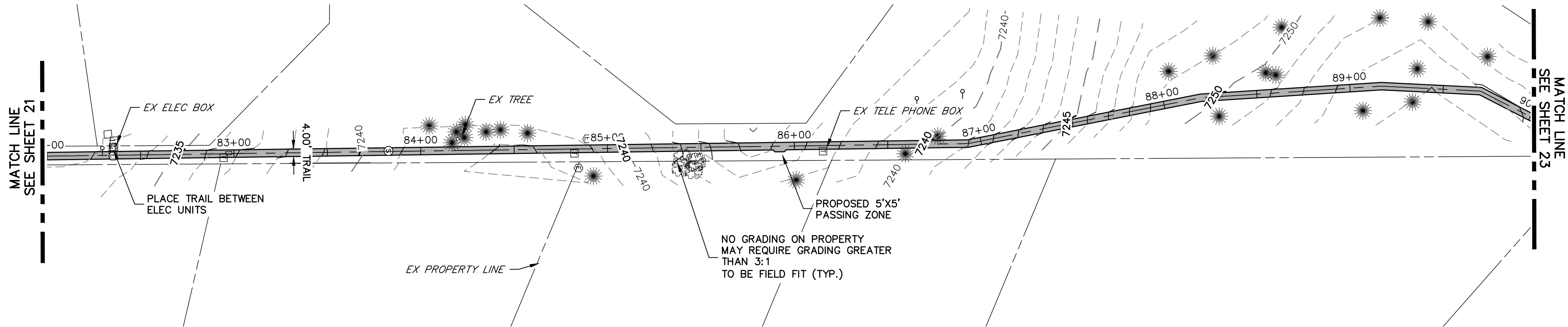
811
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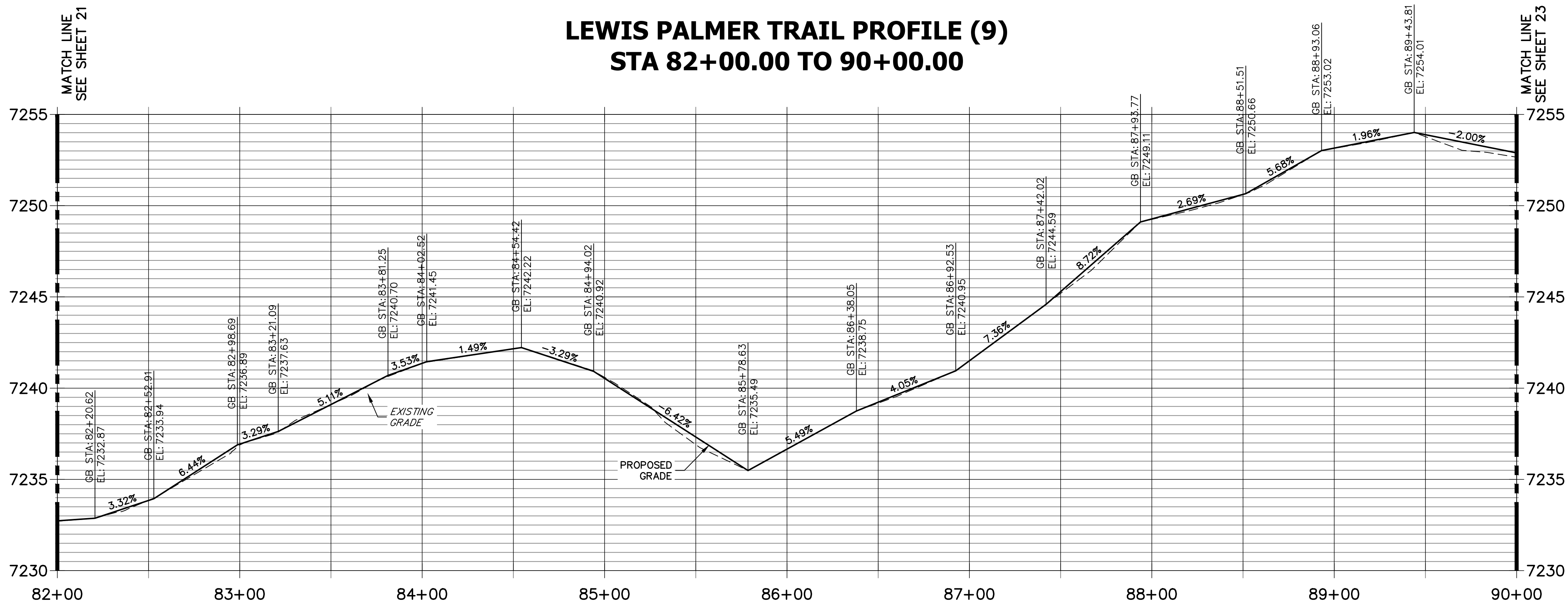
GLENN D. ELLIS, P.E.
COLORADO P.E. 38861
FOR AND ON BEHALF OF JR ENGINEERING, LLC



Print Date: 05/20/2021		<div><div></div><div></div><div></div><div></div><div></div></div>	Sheet Revisions			Colorado Department of Transportation		<div><div><div><div></div><div>CDOT</div></div><div><div>CO</div><div></div></div></div><div>5615 WILL BLVD. Pueblo, CO 81008 Phone: 719-546-5750</div><div>Region 2</div></div> <div><div><div><div></div><div>Lewis Palmer</div><div>School District 38</div></div></div></div>		As Constructed		LEWIS PALMER TRAIL TRAIL PLAN AND PROFILE				Project No./Code					
File Name:			Date:			Comments				Init.			No Revisions:		M915-009/22585						
Horiz. Scale: 1"=40'			Vert. Scale: 1"=4'										Revised:		Designer: GG		Structure		2520300		
Unit name			Unit leader										Void:		Detailer: GG		Numbers		Sheet Number 21 OF 41		
<div><div><div></div><div>J-R ENGINEERING</div><div>A Westrian Company</div></div><div>Centennial 303-740-9393 • Colorado Springs 719-593-2593 Fort Collins 970-491-9888 • www.jrengineering.com</div></div>													Sheet Subset:		Subset Sheets: OF						



KEY MAP
SCALE: NOT TO SCALE



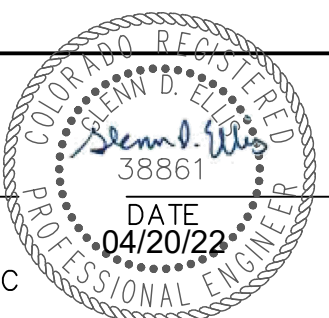
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40 20 0 40 80
HORIZONTAL
ORIGINAL SCALE: 1" = 40'
VERTICAL
ORIGINAL SCALE: 1" = 4'

ENGINEER'S STATEMENT
PREPARED UNDER MY SUPERVISION

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COLORADO P.E. 38861
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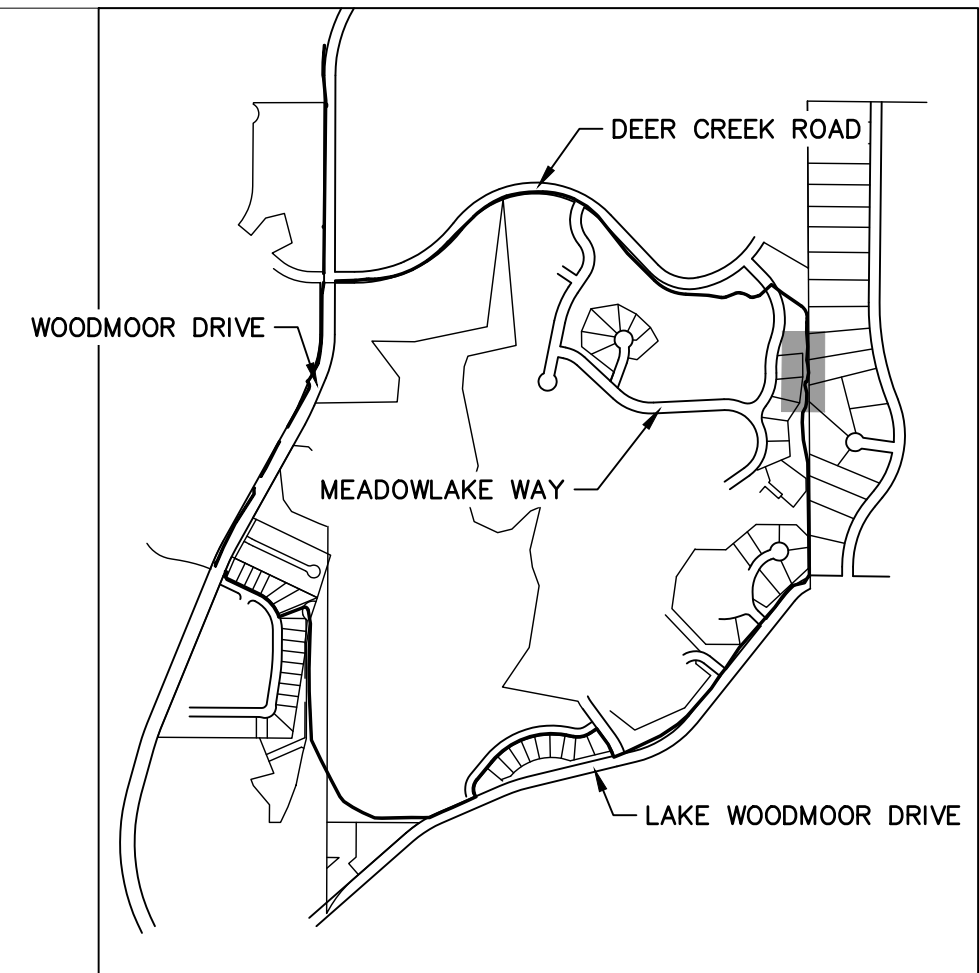
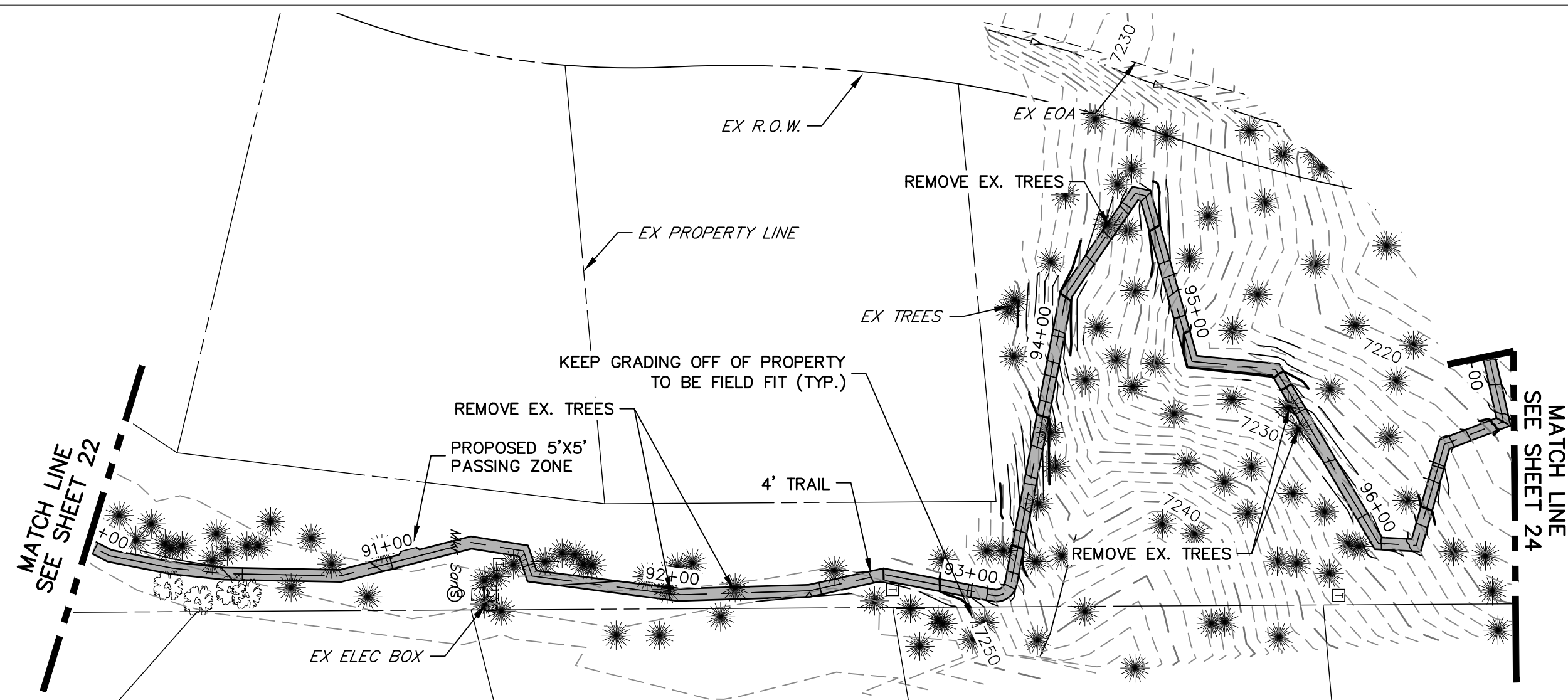
Print Date: 05/20/2021
File Name:
Horiz. Scale: 1"=40' Vert. Scale: 1"=4'
Unit name Unit leader
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Sheet Revisions			
Date:	Comments	Init.	

Colorado Department of Transportation

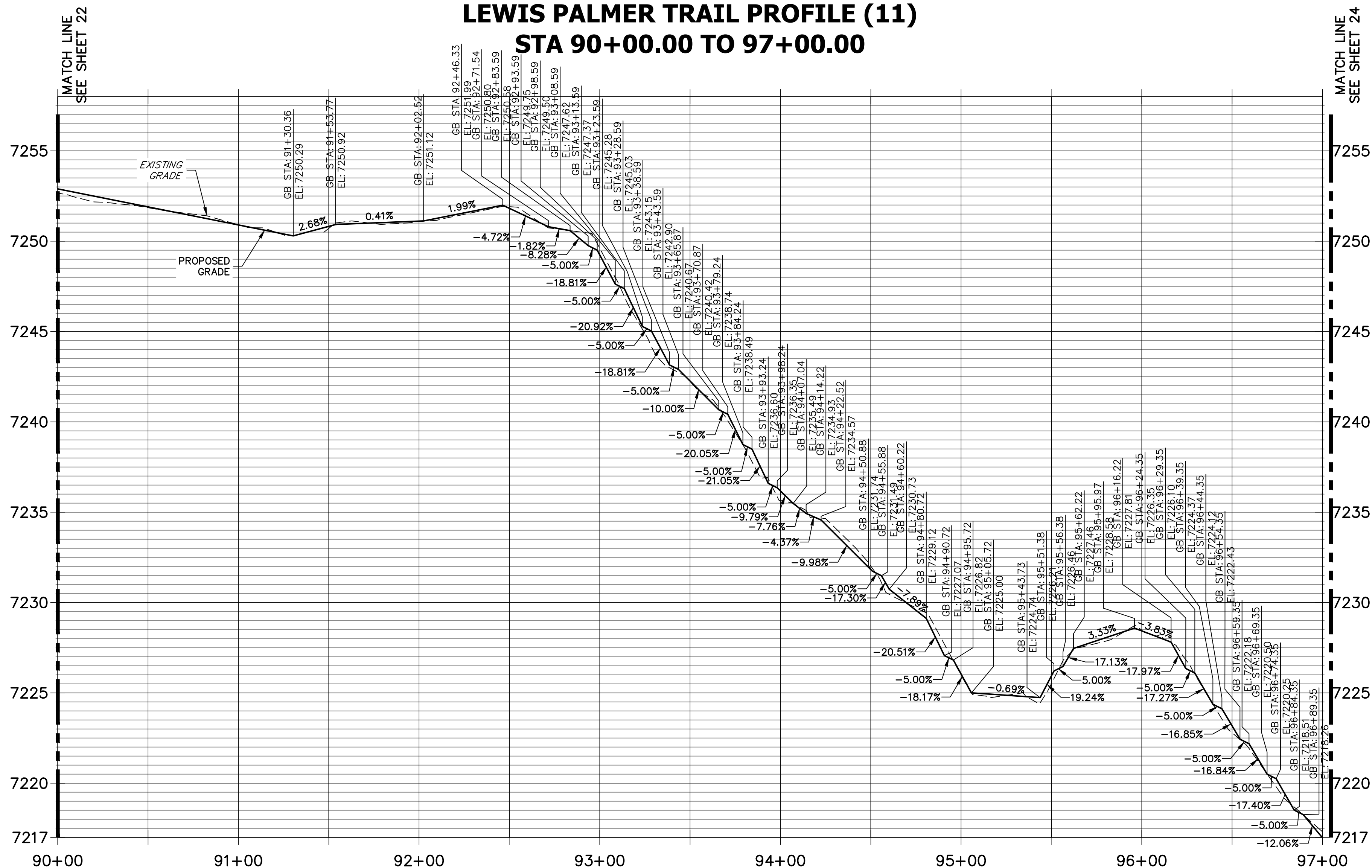
Region 2
5615 WILL BLVD.
Pueblo, CO 81008
Phone: 719-546-5750

As Constructed		LEWIS PALMER TRAIL TRAIL PLAN AND PROFILE				Project No./Code	
No Revisions:						M915-009/22585	
Revised:		Designer:	GG	Structure		2520300	
		Detailer:	GG	Numbers			
Void:		Sheet Subset:		Subset Sheets:	OF	Sheet Number 22 OF 41	

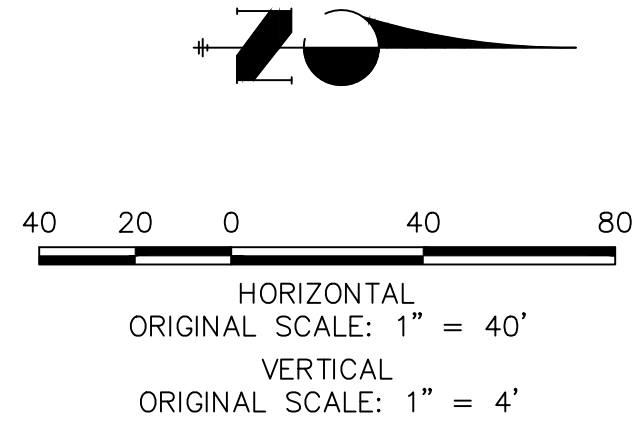


KEY MAP
SCALE: NOT TO SCALE

LEWIS PALMER TRAIL PROFILE (11)
STA 90+00.00 TO 97+00.00



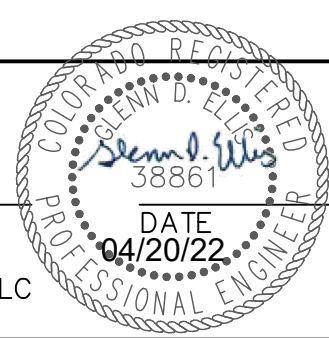
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FOR AND ON BEHALF OF JR ENGINEERING, LLC



Print Date: 05/20/2021
File Name:
Horiz. Scale: 1"=40' Vert. Scale: 1"=4'
Unit name Unit leader
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A Westrian Company
Centennial 303-740-9393 • Colorado Springs 719-583-2593
Fort Collins 970-431-9888 • www.jrengineering.com

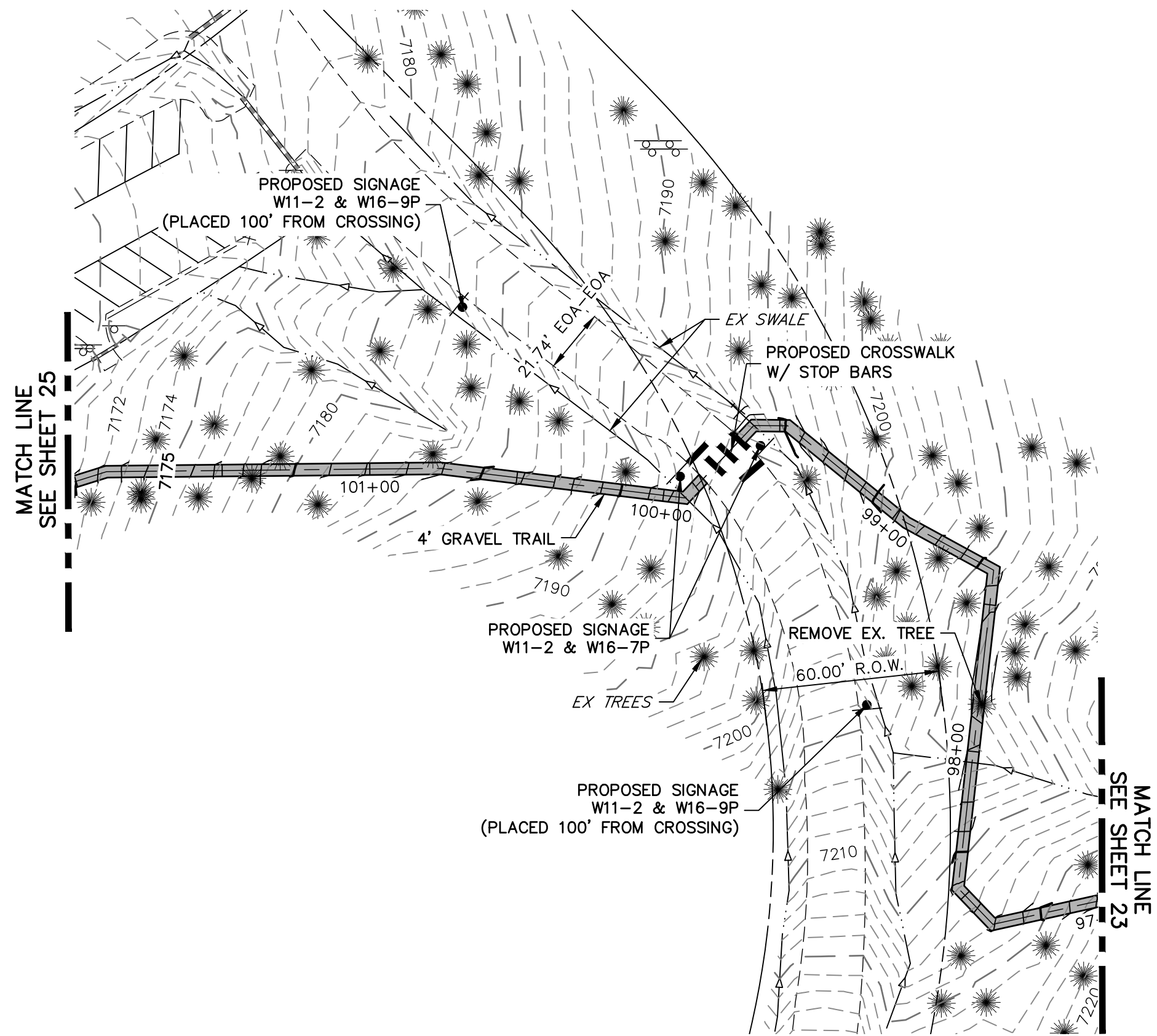
Sheet Revisions		
Date:	Comments	Init.

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Pueblo, CO 81008
Phone: 719-546-5750
Region 2
 Lewis Palmer School District 38

As Constructed
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Revised:
Void:

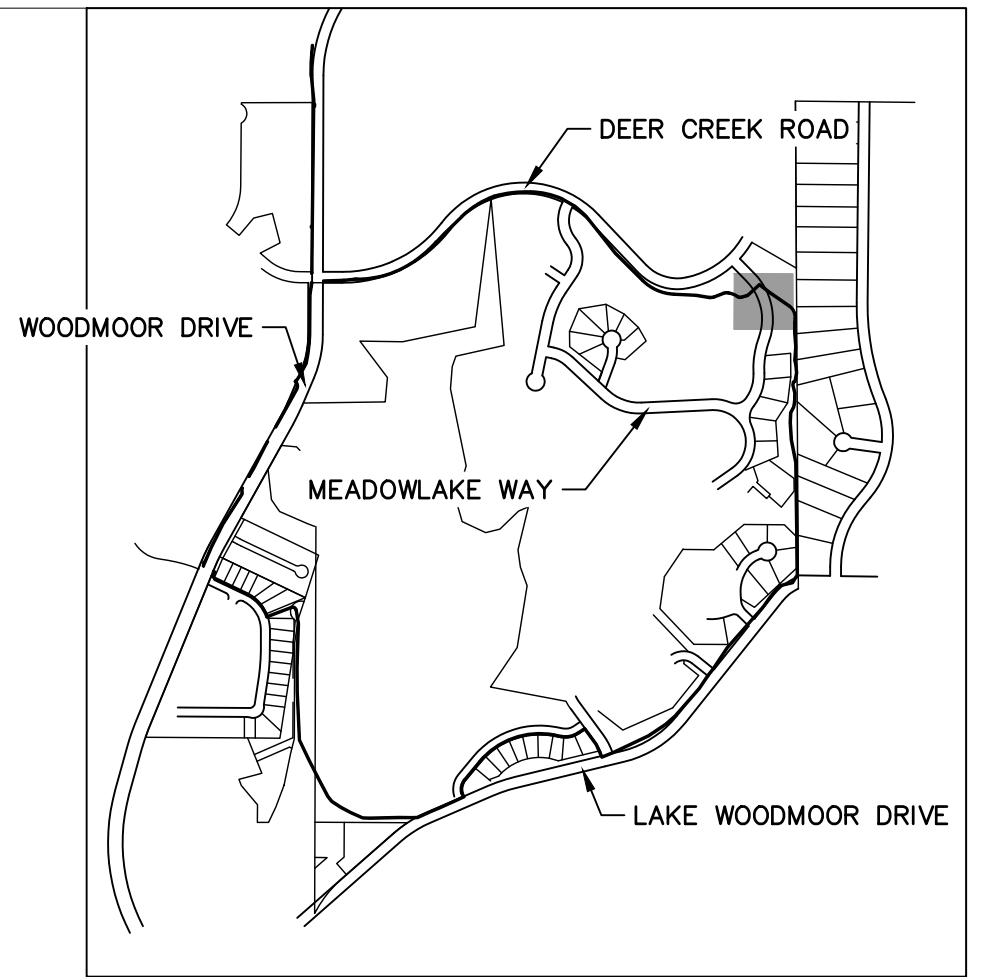
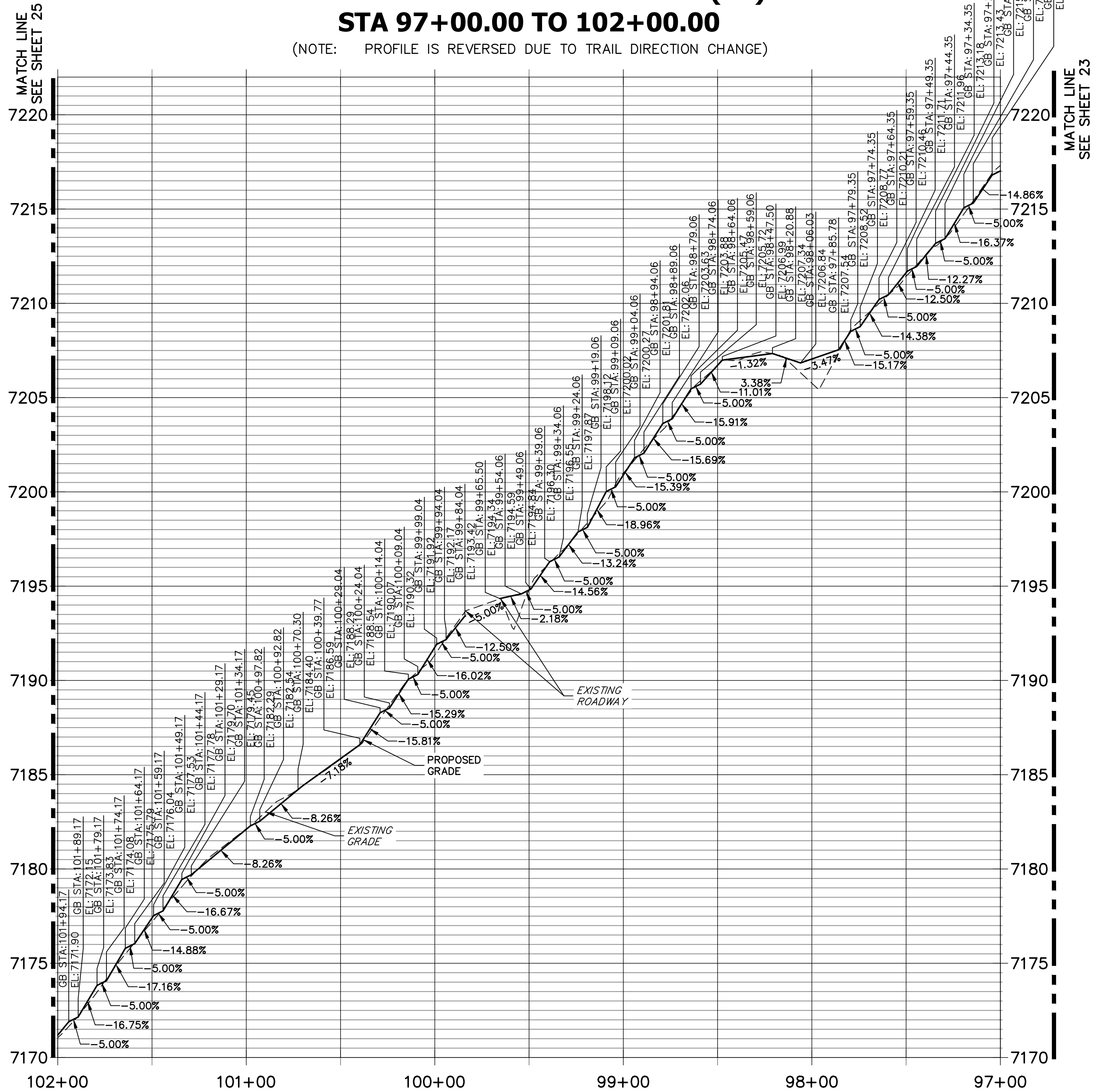
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Designer:	GG	Structure Numbers	
Detailer:	GG		
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Project No./Code
M915-009/22585
2520300
Sheet Number 23 OF 41



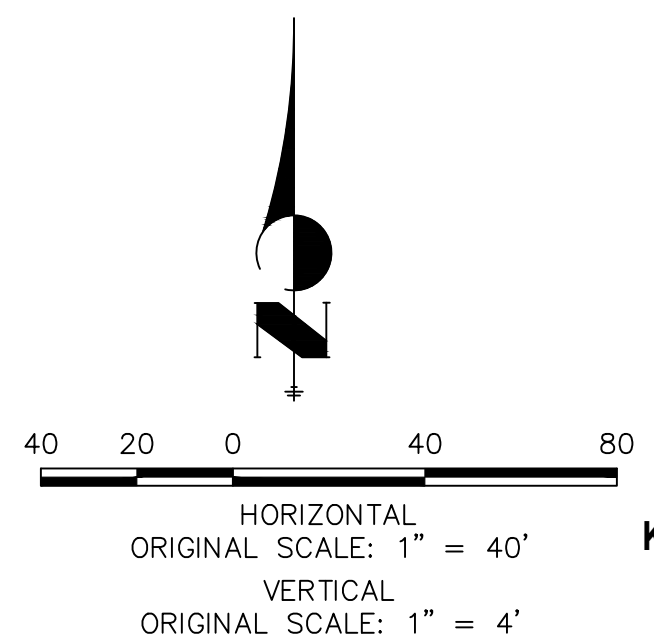
LEWIS PALMER TRAIL PROFILE (12) STA 97+00.00 TO 102+00.00

(NOTE: PROFILE IS REVERSED DUE TO TRAIL DIRECTION CHANGE)



KEY MAP
SCALE: NOT TO SCALE

NOTE:
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COLORADO P.E. 38861
FOR AND ON BEHALF OF JR ENGINEERING, LLC



Print Date: 05/20/2021
File Name:
Horiz. Scale: 1"=40'
Unit name
Unit leader
 J-R ENGINEERING A Westrian Company Centennial 303-740-9393 • Colorado Springs 719-583-2593 Fort Collins 970-431-9888 • www.jrengineering.com

Sheet Revisions		
Date:	Comments	Init.



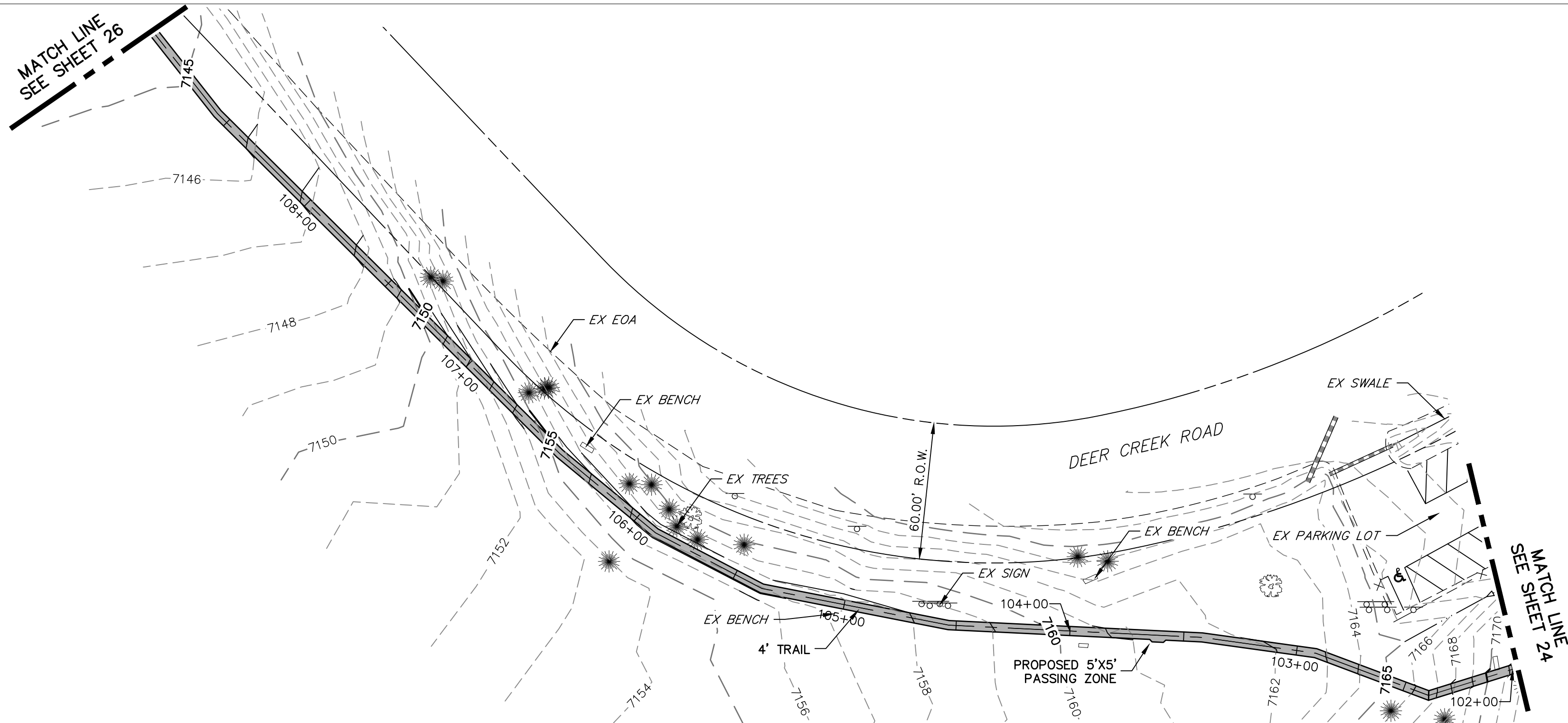
Colorado Department of Transportation



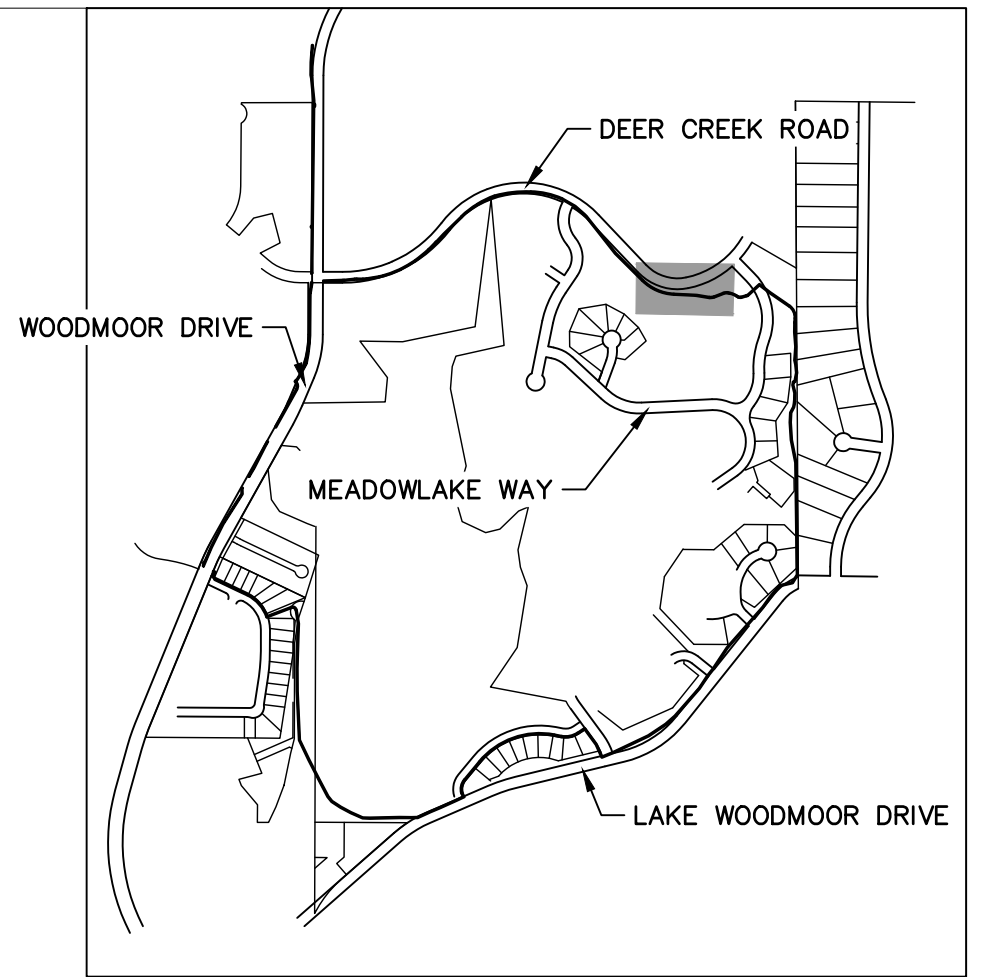
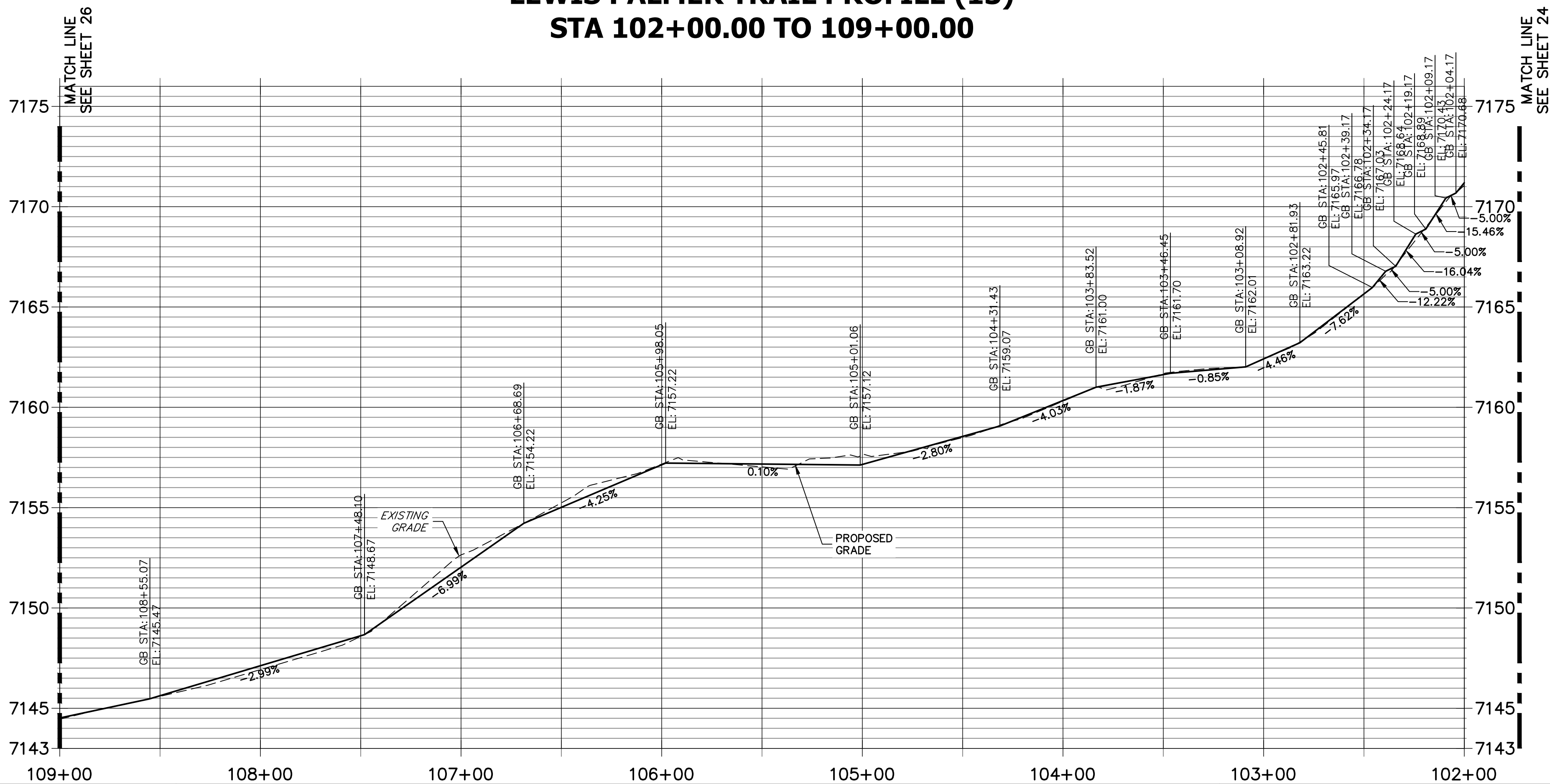
Lewis Palmer School District 38

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Phone: 719-546-5750

As Constructed		LEWIS PALMER TRAIL TRAIL PLAN AND PROFILE			Project No./Code	
No Revisions:					M915-009/22585	
Revised:		Designer:	GG	Structure	2520300	
		Detailer:	GG	Numbers		
Void:		Sheet Subset:		Subset Sheets:	OF	Sheet Number 24 OF 41

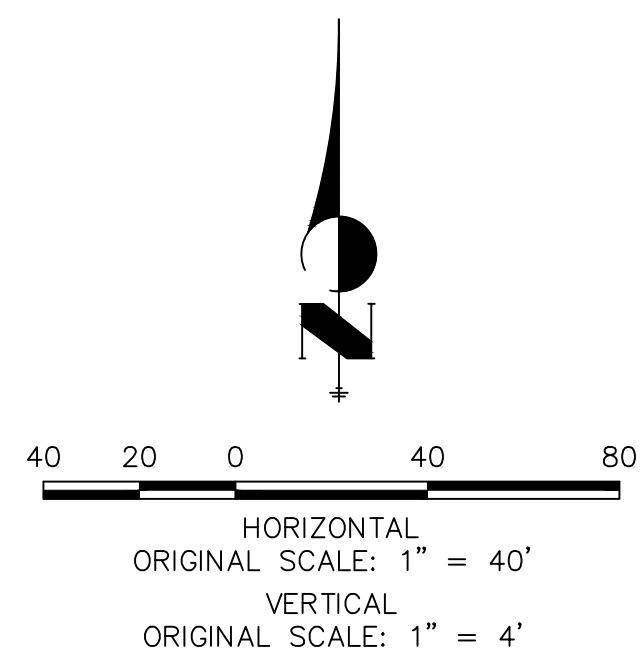


LEWIS PALMER TRAIL PROFILE (13)
STA 102+00.00 TO 109+00.00



KEY MAP
SCALE: NOT TO SCALE


NOTE:
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COLORADO P.E. 38861
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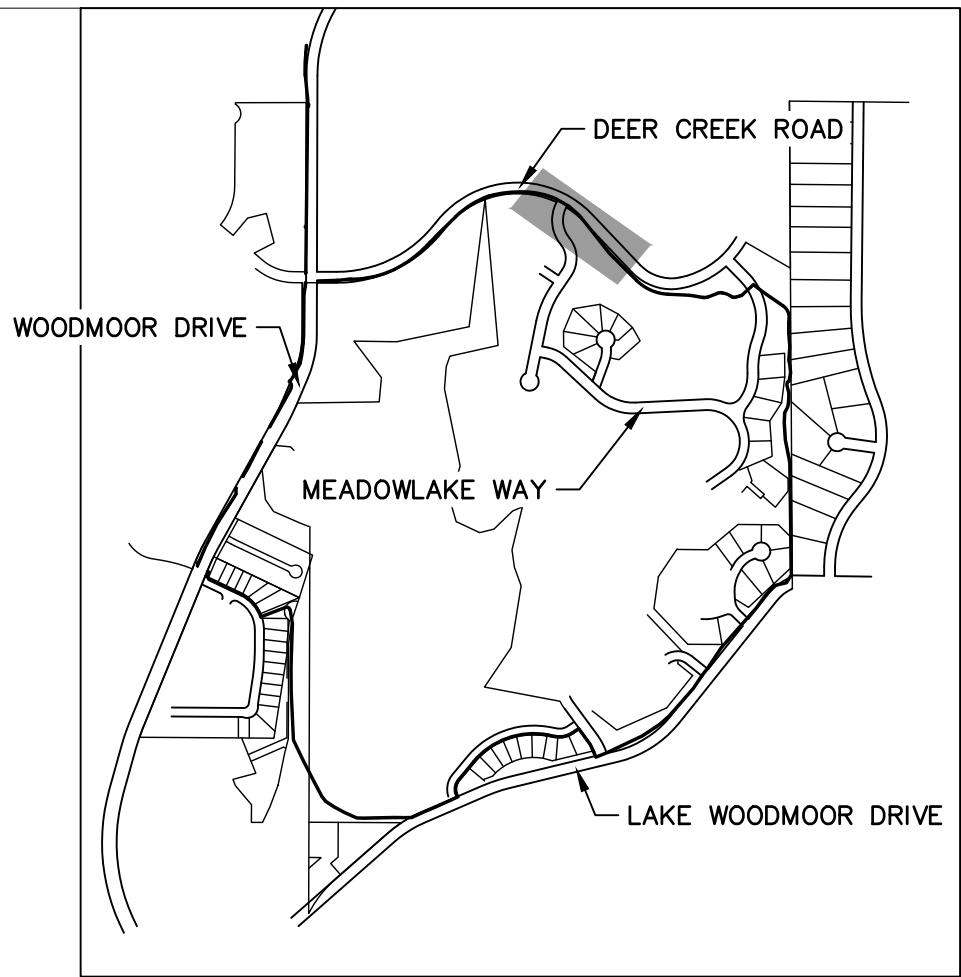
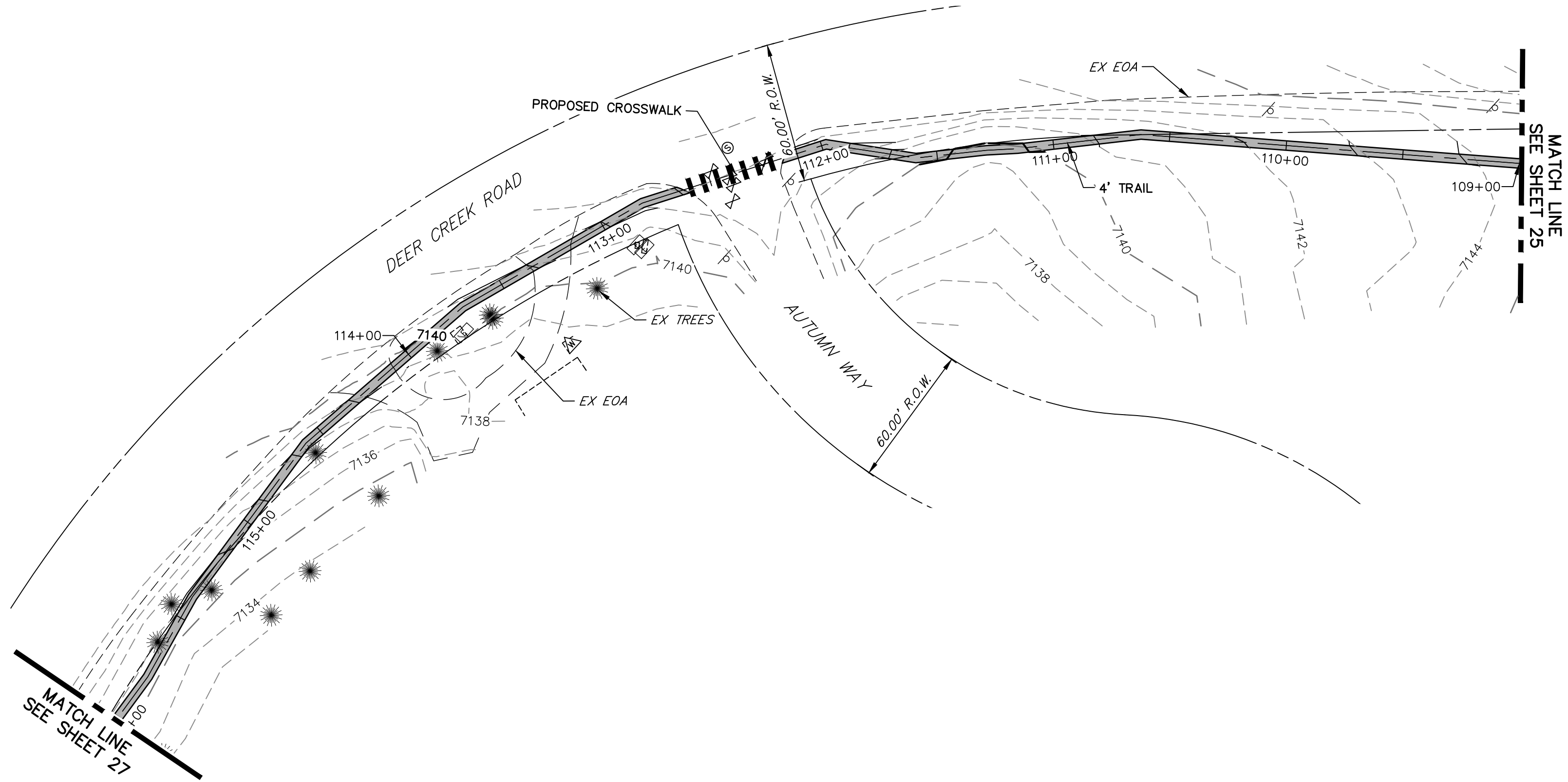


Print Date: 05/20/2021	
File Name:	
Horiz. Scale: 1"=40'	Vert. Scale: 1"=4'
Unit name	Unit leader
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Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation	
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Region 2	 Lewis Palmer School District 38

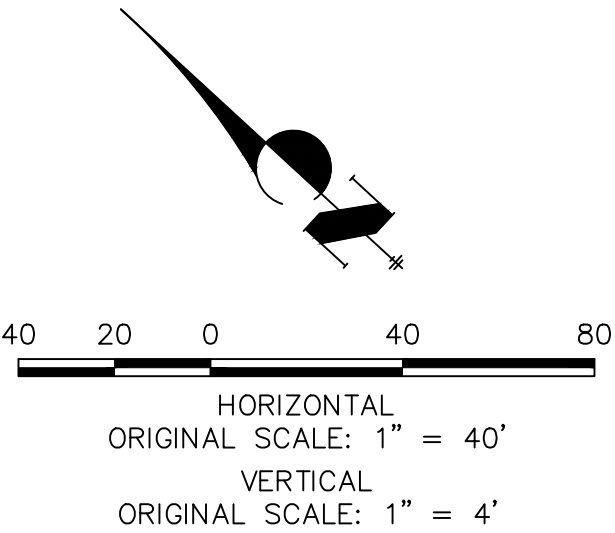
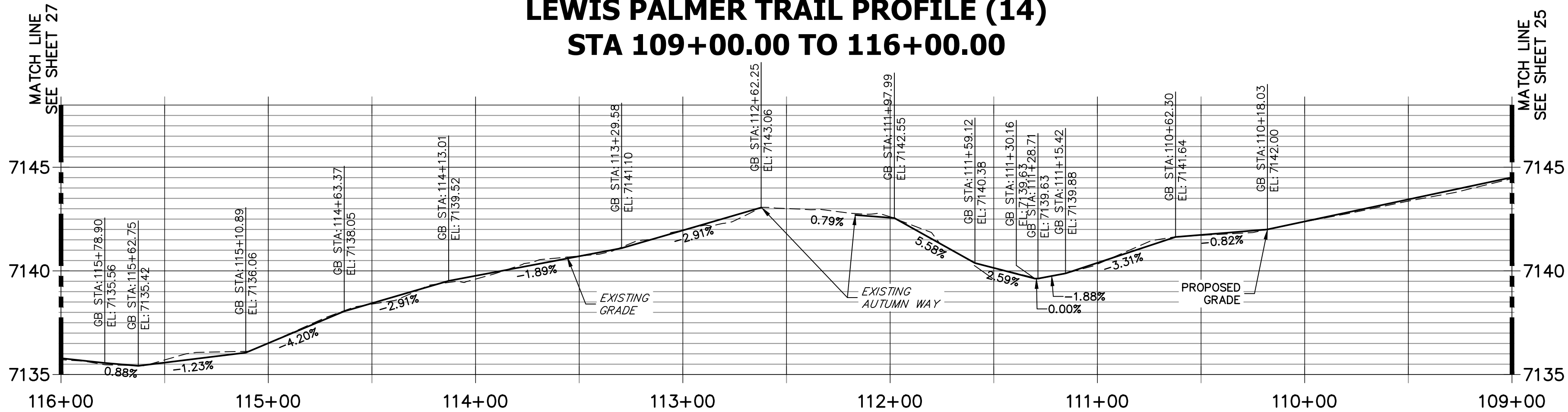
As Constructed	LEWIS PALMER TRAIL		Project No./Code
No Revisions:	TRAIL PLAN AND PROFILE		M915-009/22585
Revised:	Designer: GG	Structure Numbers	2520300
Void:	Detailer: GG	Sheet Subset:	Sheet Number 25 OF 41
		Subset Sheets: OF	



KEY MAP
SCALE: NOT TO SCALE

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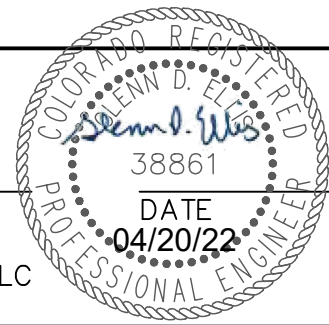
LEWIS PALMER TRAIL PROFILE (14)
STA 109+00.00 TO 116+00.00



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File Name:

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Unit name Unit leader

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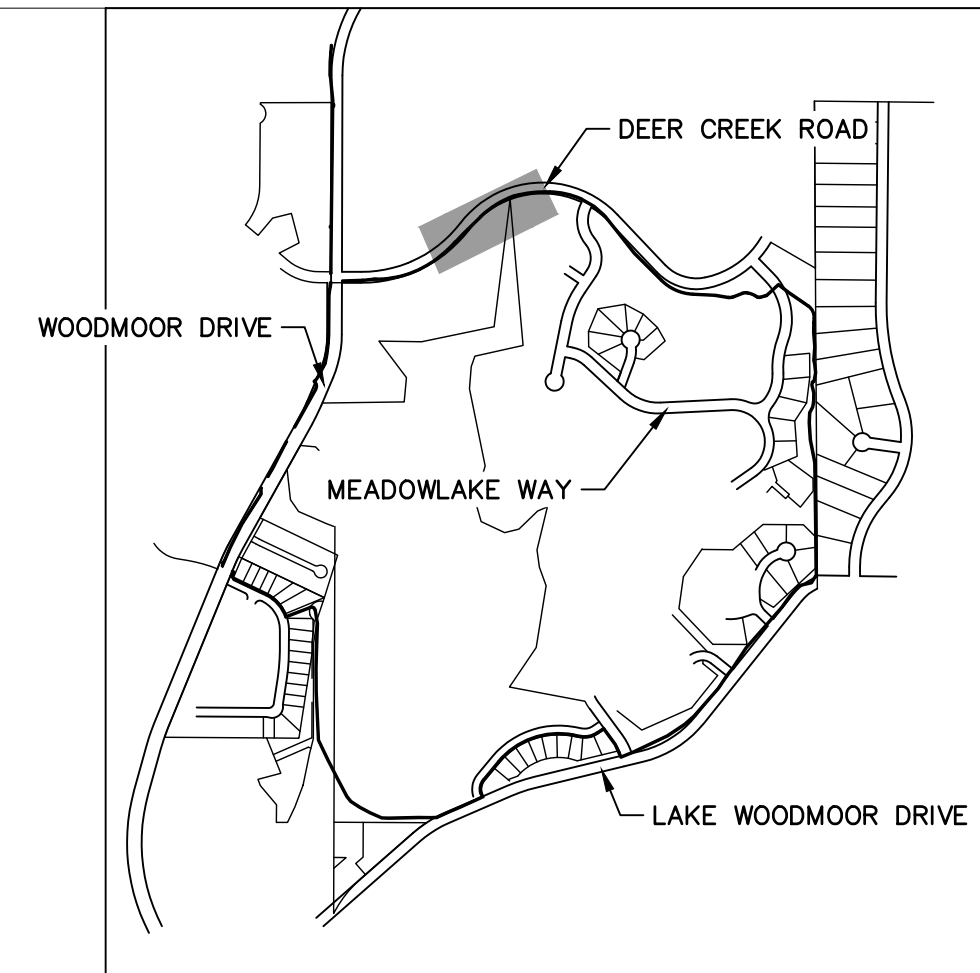
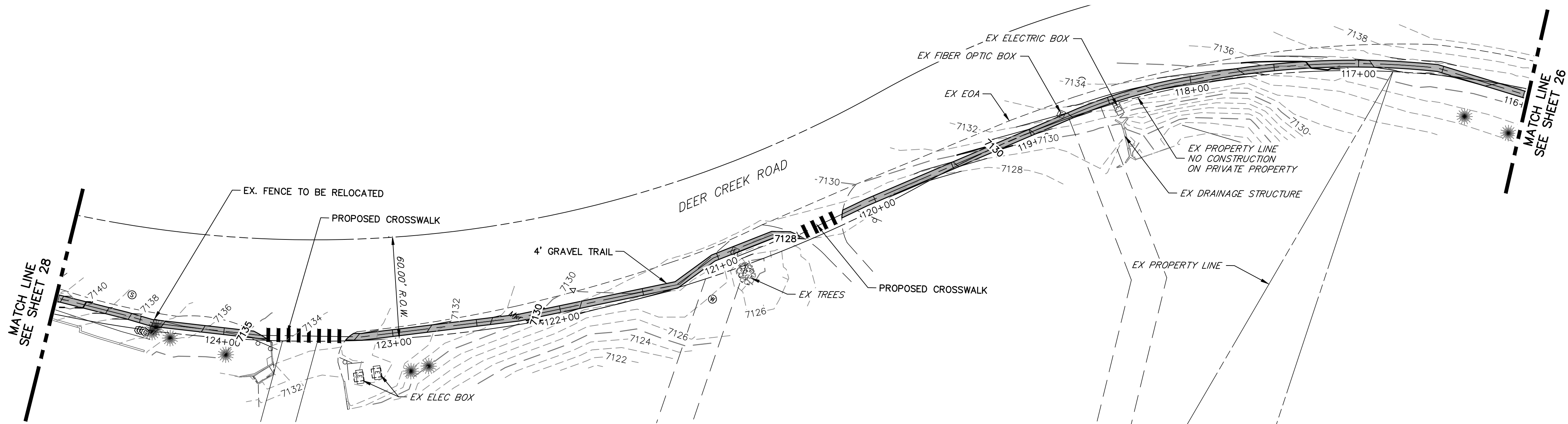
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Date:	Comments	Init.	

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Phone: 719-546-5750

 Lewis Palmer School District 38

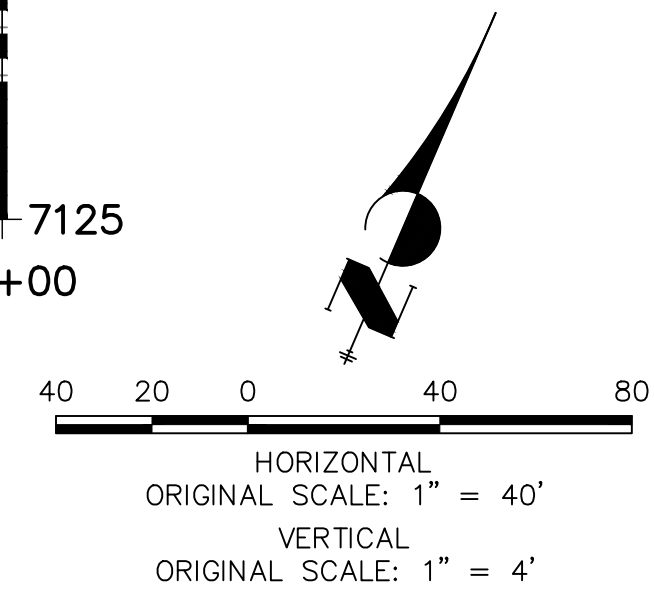
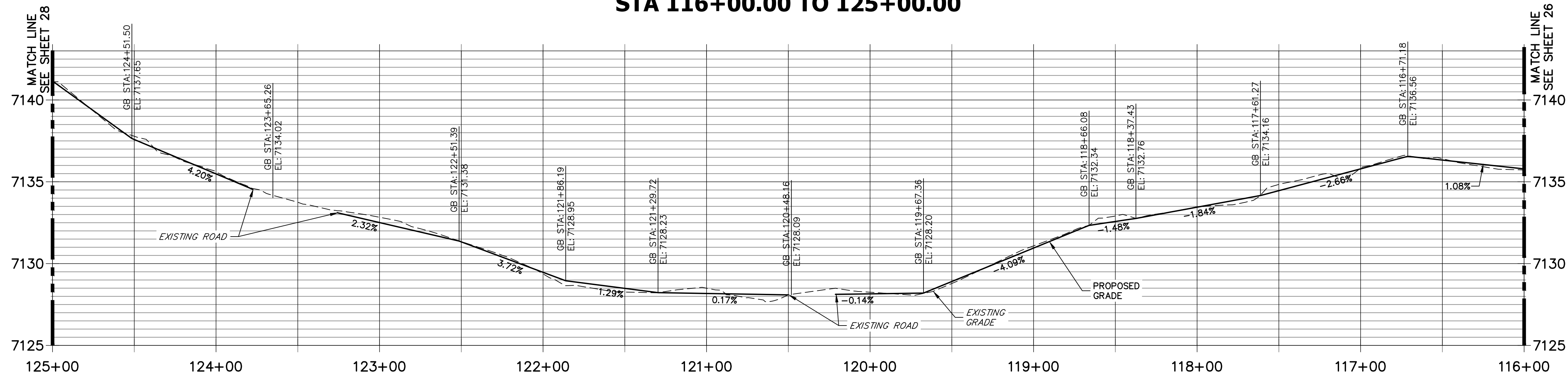
As Constructed		LEWIS PALMER TRAIL TRAIL PLAN AND PROFILE				Project No./Code	
No Revisions:						M915-009/22585	
Revised:		Designer:	GG	Structure		2520300	
		Detailer:	GG	Numbers			
Void:		Sheet Subset:		Subset Sheets:	OF	Sheet Number 26 OF 41	



KEY MAP
SCALE: NOT TO SCALE

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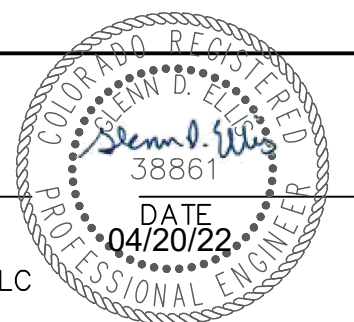
LEWIS PALMER TRAIL PROFILE (15) STA 116+00.00 TO 125+00.00



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COLORADO P.E. 38861
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Print Date: 05/20/2021
File Name:
Horiz. Scale: 1"=40' Vert. Scale: 1"=4'
Unit name Unit leader
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Sheet Revisions			
Date:	Comments	Init.	

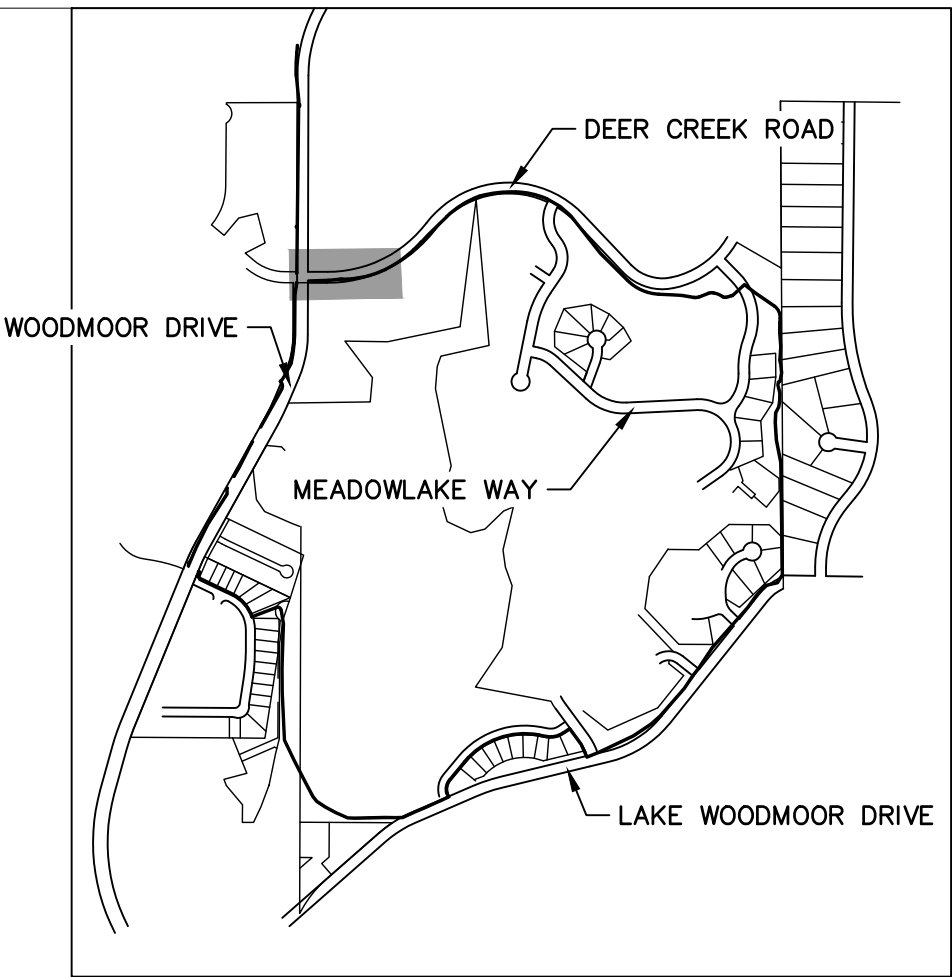
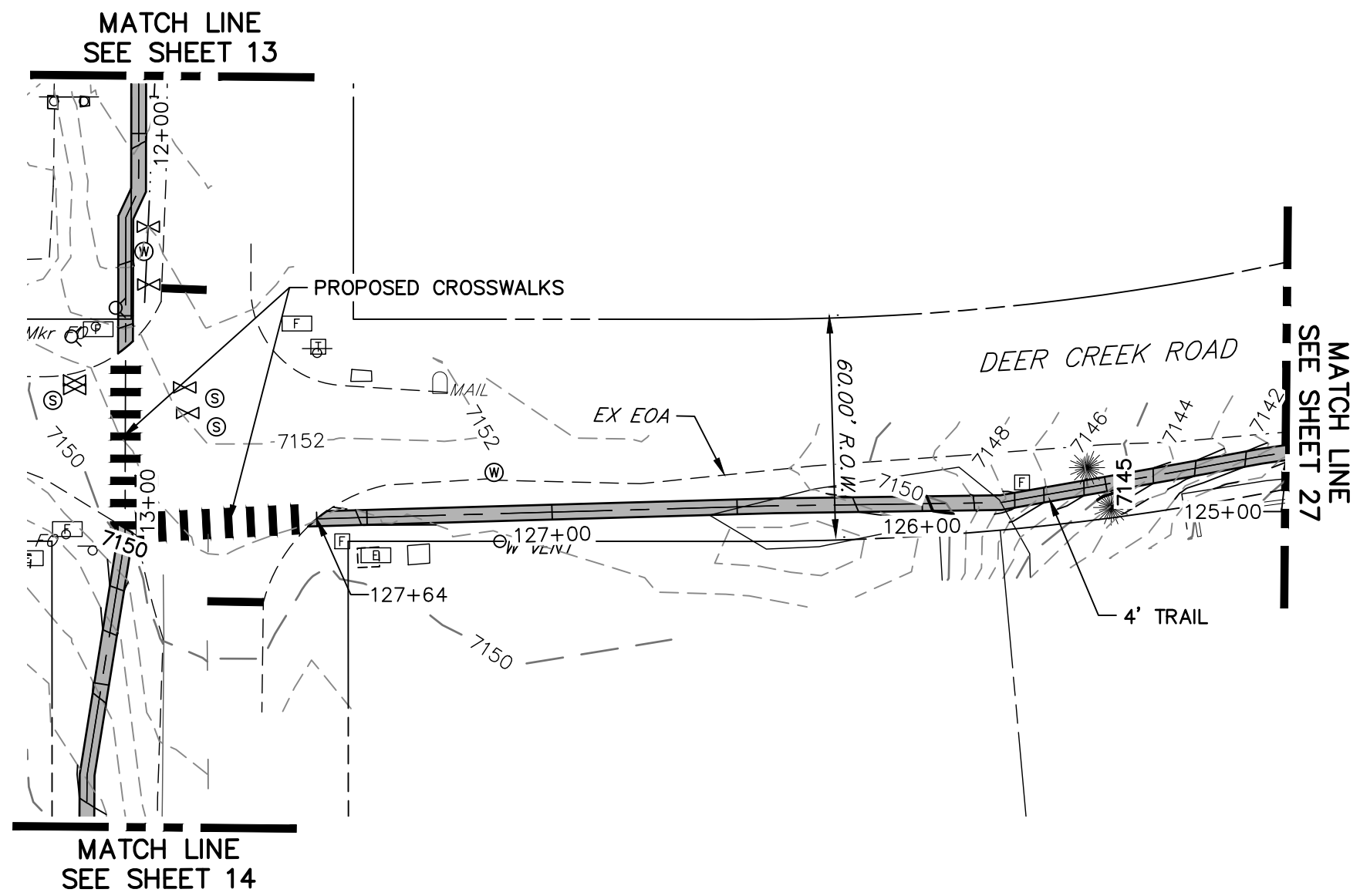
Colorado Department of Transportation

Region 2

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Pueblo, CO 81008
Phone: 719-546-5750

Lewis Palmer School District 38

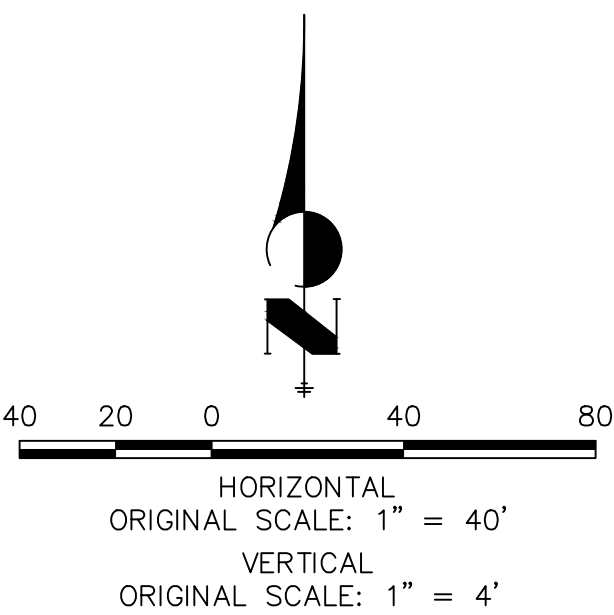
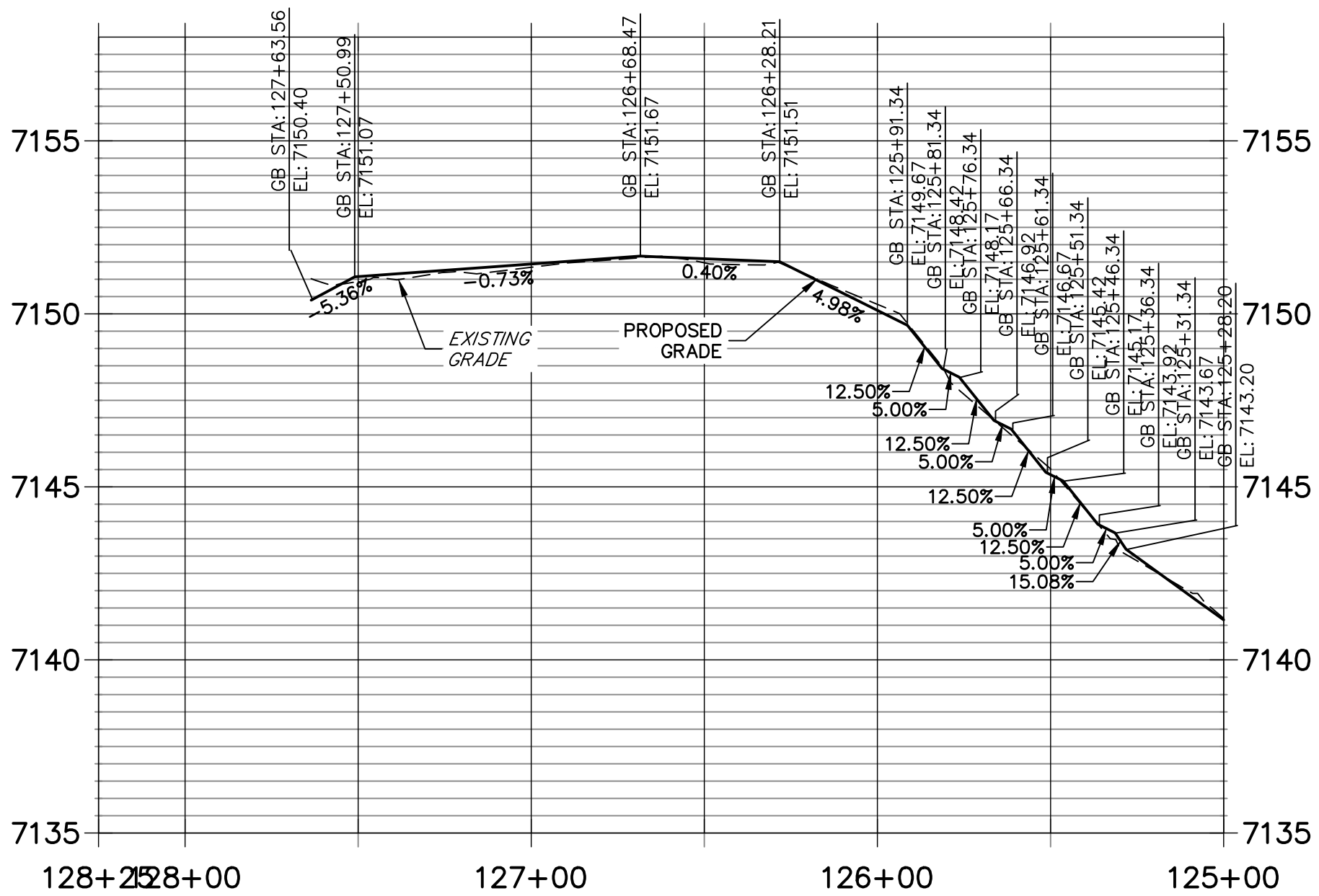
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No Revisions:						M915-009/22585	
Revised:		Designer:	GG	Structure		2520300	
		Detailer:	GG	Numbers			
Void:		Sheet Subset:		Subset Sheets:	OF	Sheet Number 27 OF 41	



KEY MAP
SCALE: NOT TO SCALE

NOTE:
THE SURVEY OF EXISTING CONDITIONS WAS COMPLETED IN APRIL 2021. THERE ARE A NUMBER OF LOCATIONS ALONG THE CORRIDOR THAT HAVE BEEN MODIFIED BY OTHER WORK SINCE THEN (I.E. UTILITY AND GRADING) THAT ARE NOT REPRESENTED IN THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE TRAIL ALIGNMENT AND BECOMING FAMILIAR WITH THESE LOCATIONS. IF THE CONTRACTOR DETERMINES THAT CHANGES HAVE BEEN MADE THAT IMPACT THE TRAIL DESIGN, THE SCHOOL DISTRICT AND ENGINEER SHALL BE NOTIFIED PRIOR TO CONSTRUCTION OF THE SEGMENT OF TRAIL POTENTIALLY IMPACTED.

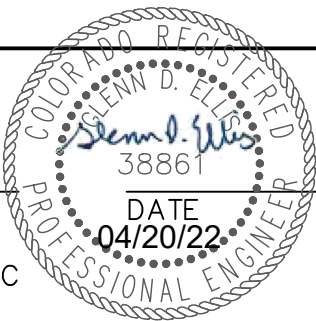
LEWIS PALMER TRAIL PROFILE (16)
STA 125+00.00 TO 128+25.00



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ENGINEER'S STATEMENT
PREPARED UNDER MY SUPERVISION

GLENN D. ELLIS, P.E.
COLORADO P.E. 38861
FOR AND ON BEHALF OF JR ENGINEERING, LLC



Print Date: 05/20/2021

File Name:

Horiz. Scale: 1"=40' Vert. Scale: 1"=4'

Unit name Unit leader

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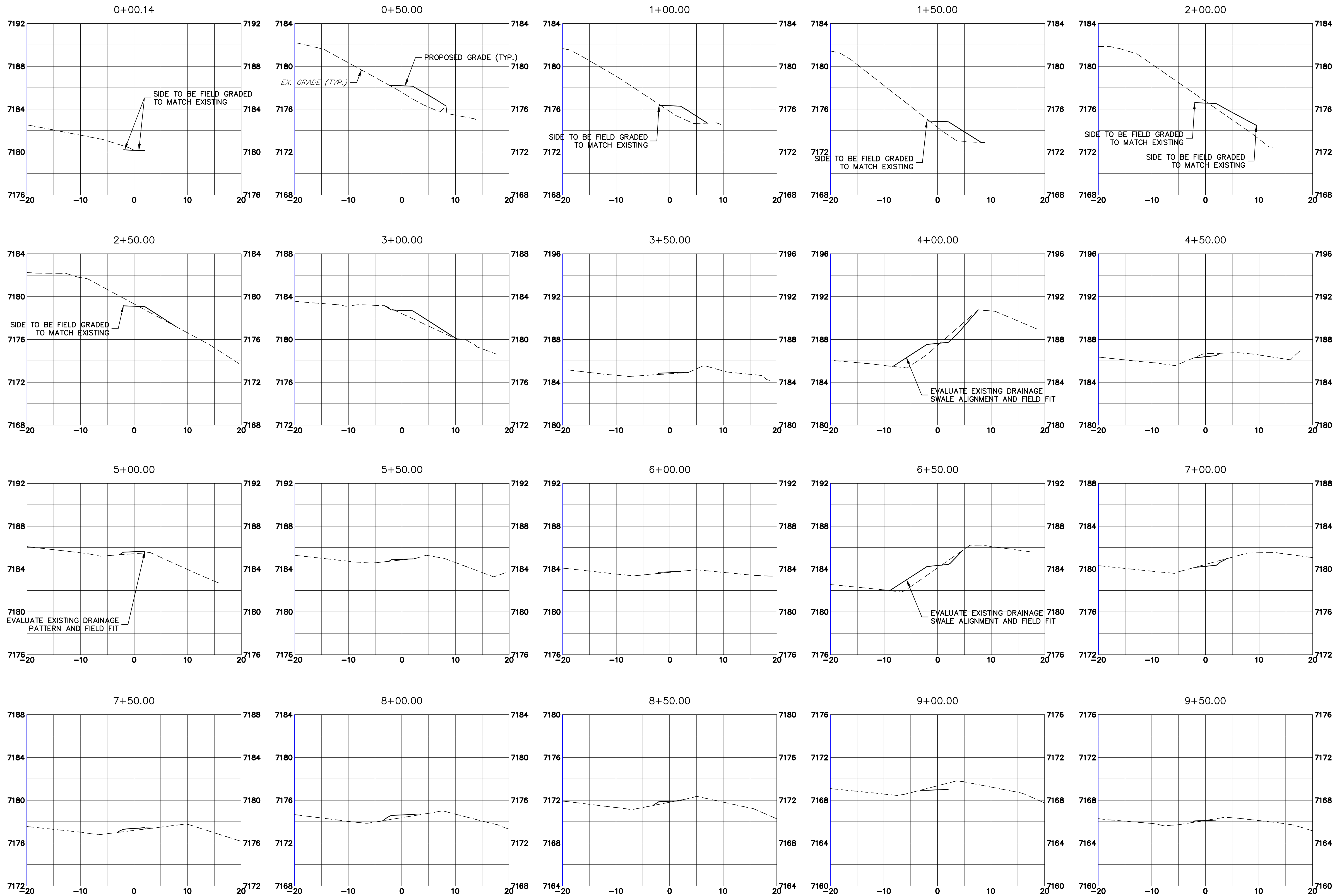
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Colorado Department of Transportation

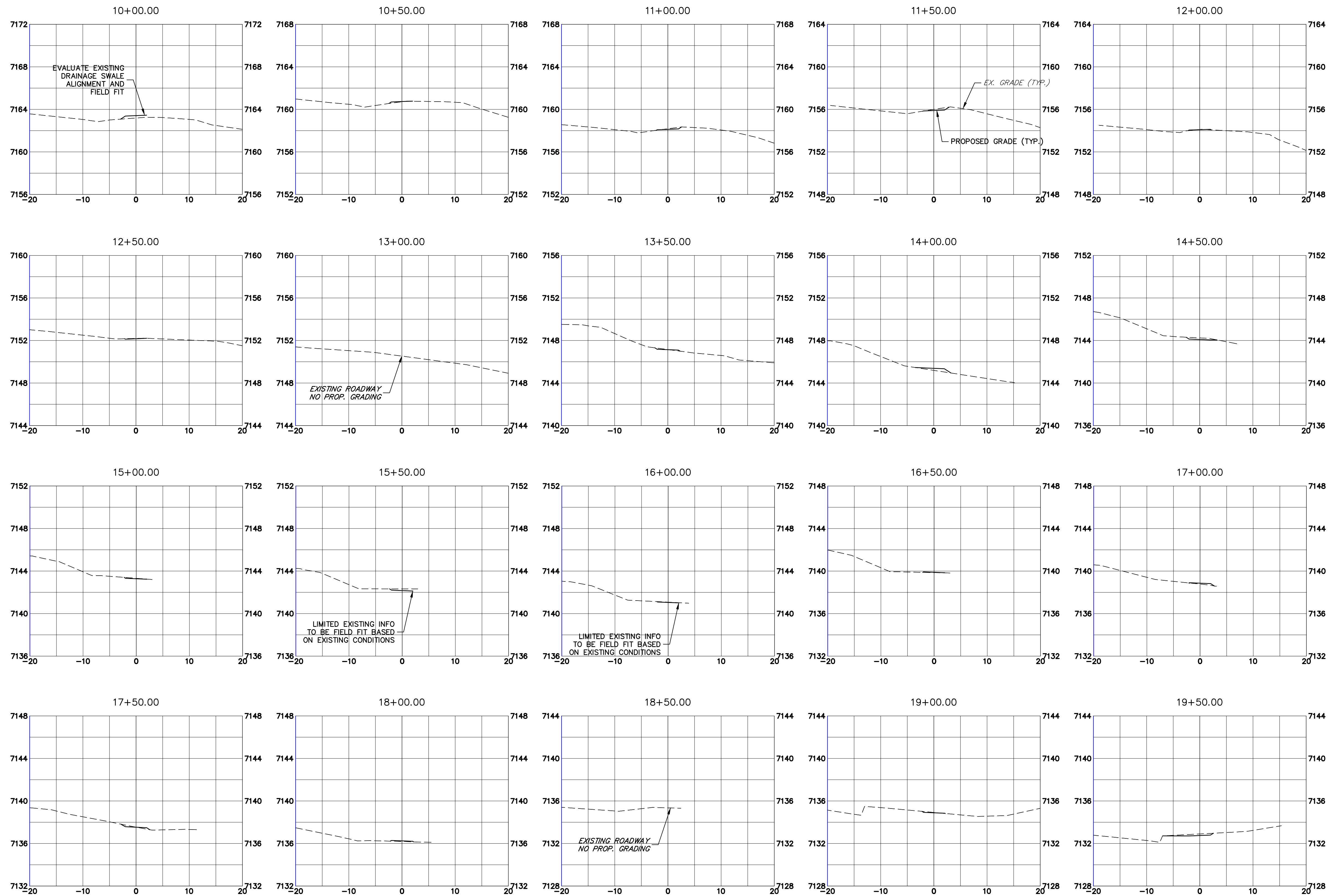
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Region 2 Lewis Palmer School District 38

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Print Date: 05/20/2021


File Name:

Horiz. Scale: 1"=10'

Unit name

Vert. Scale: 1"=5'


Unit leader


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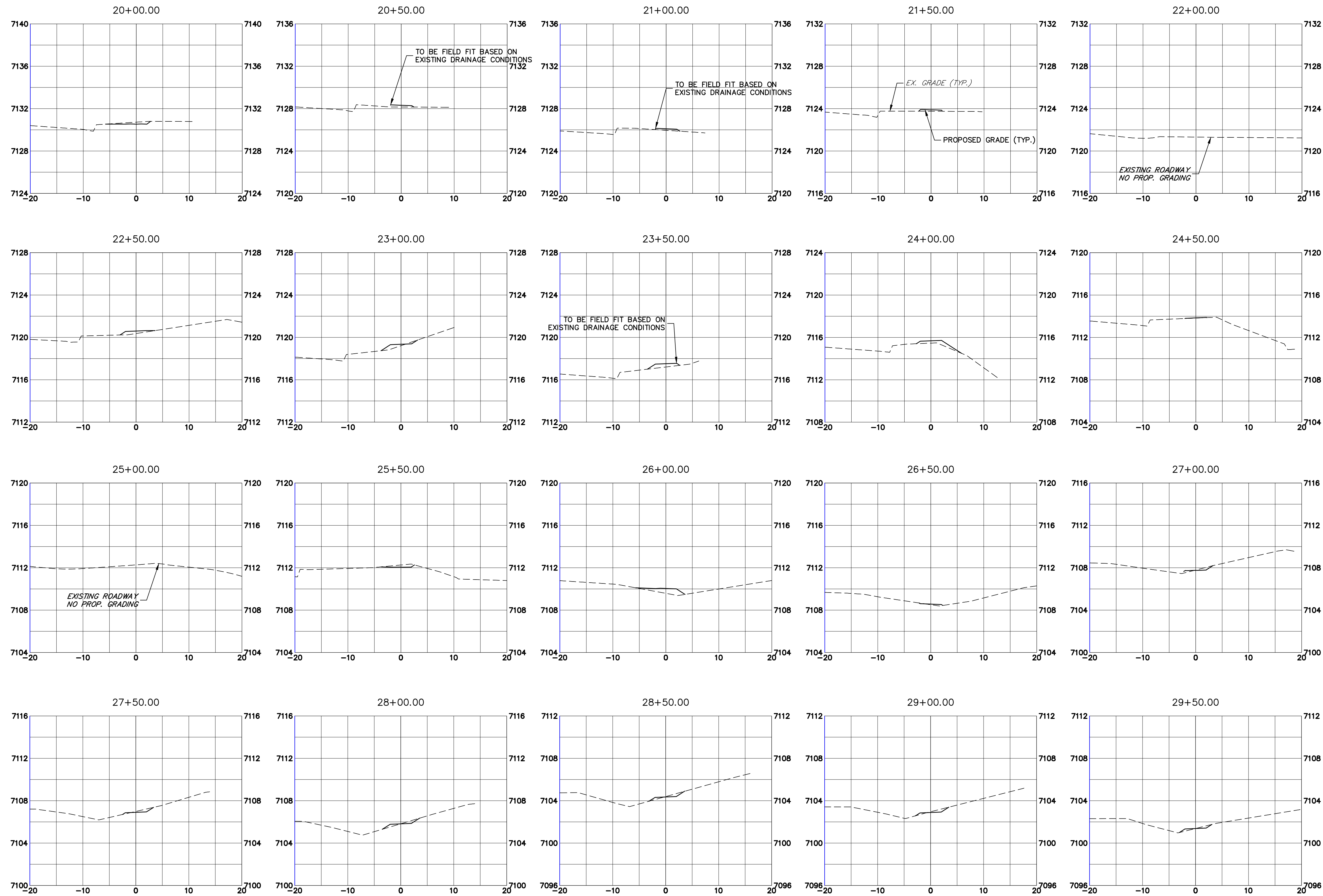
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 Lewis Palmer School District 38

Region 2

As Constructed		LEWIS PALMER TRAIL CROSS SECTION			Project No./Code
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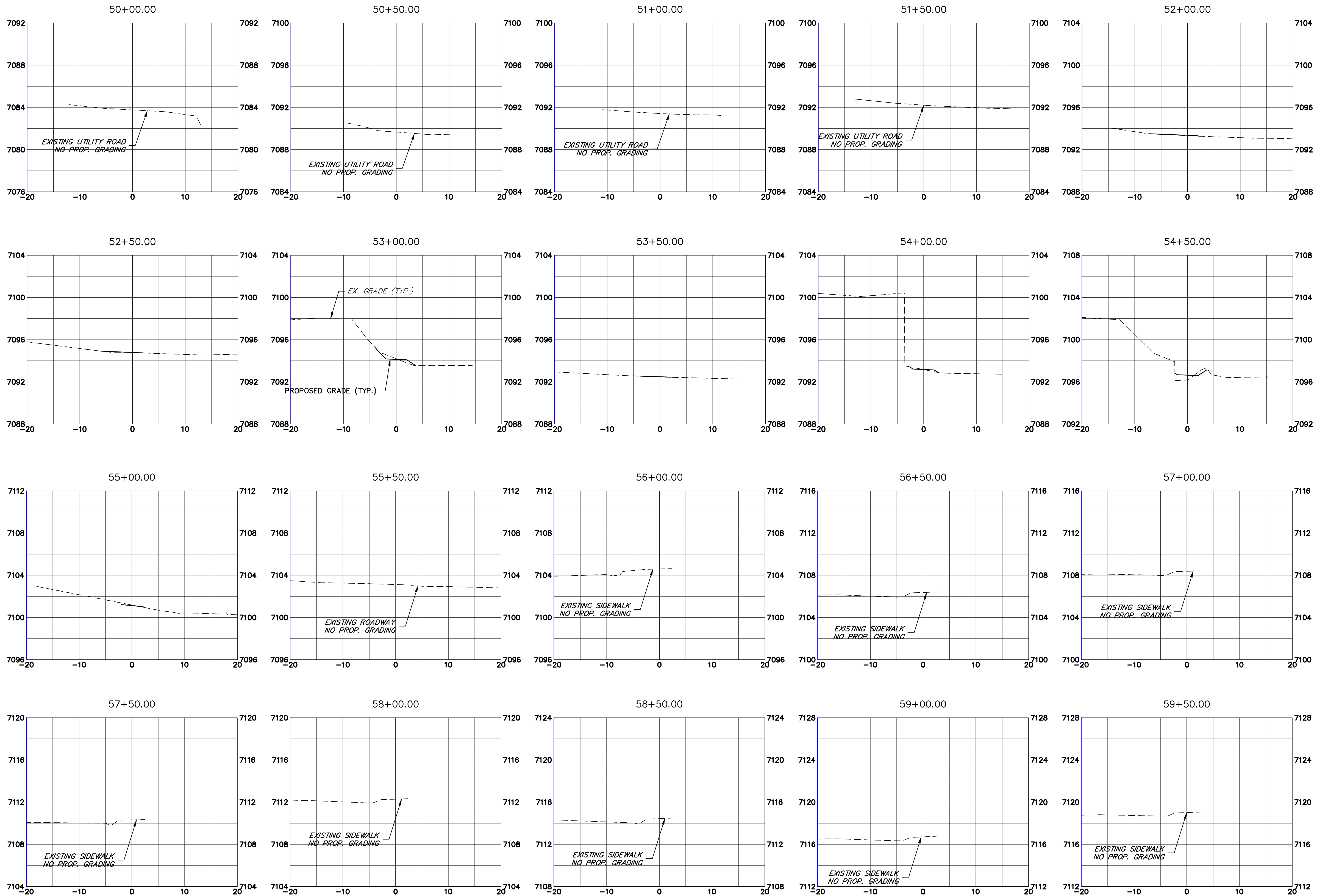


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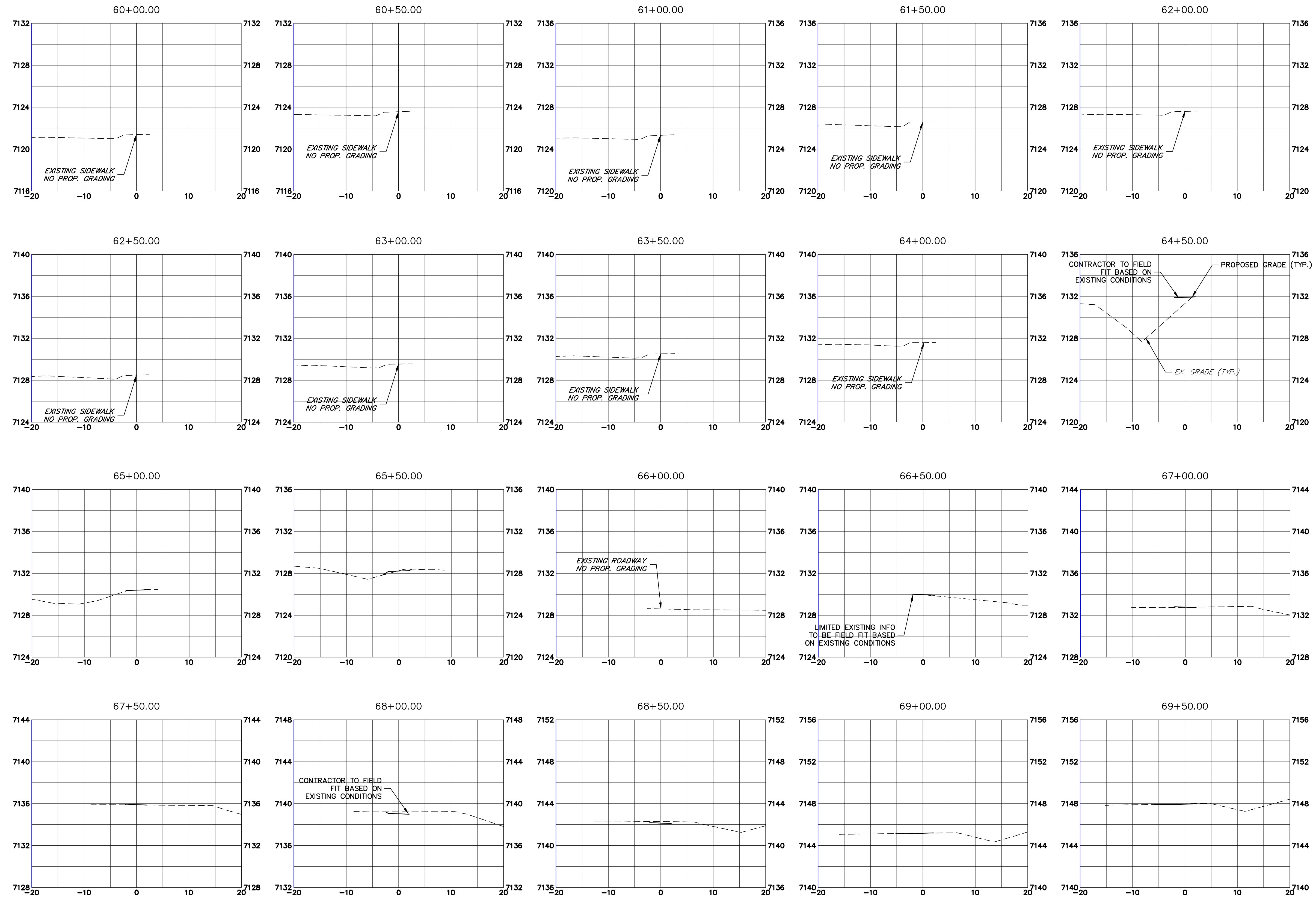
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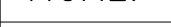


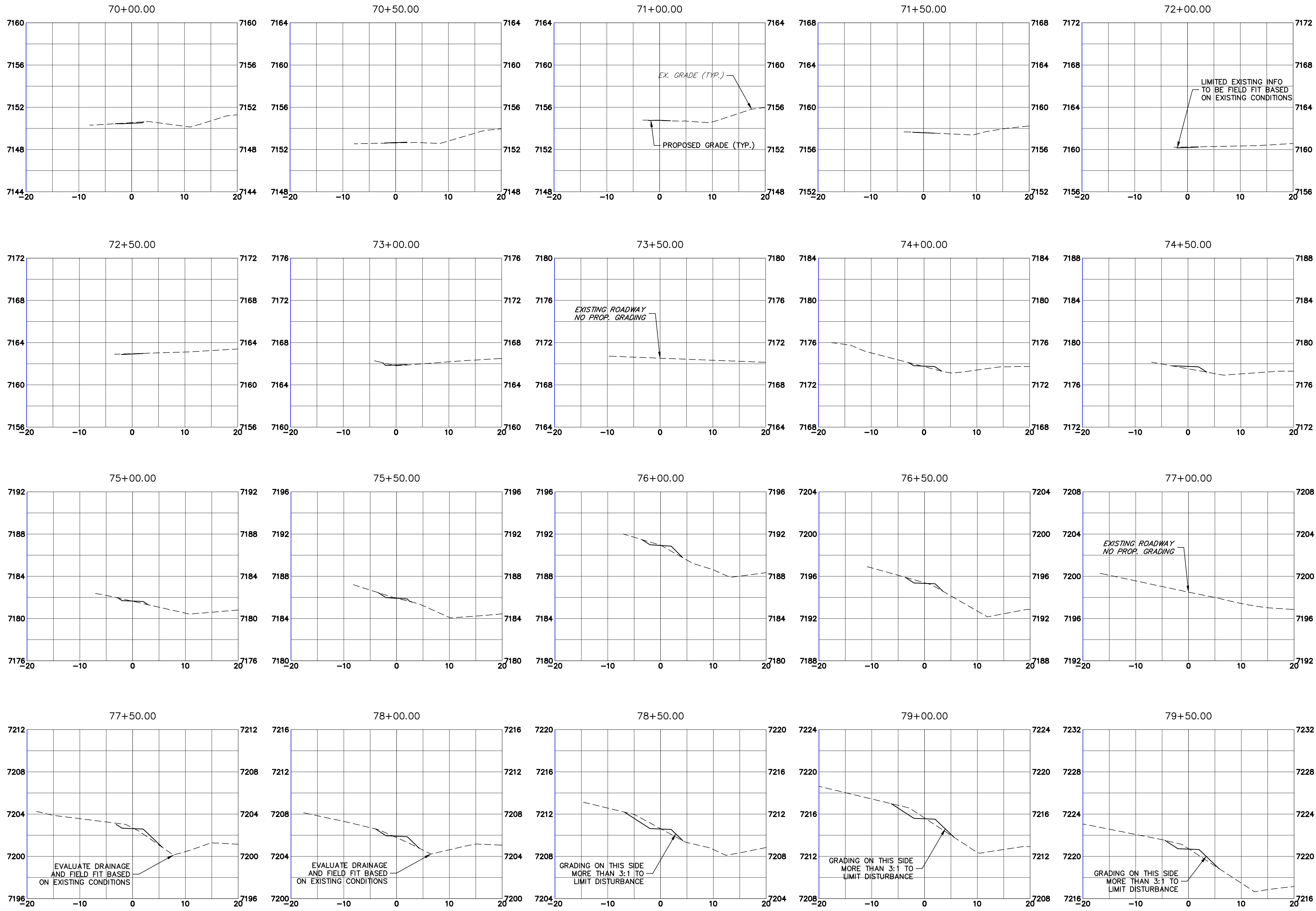
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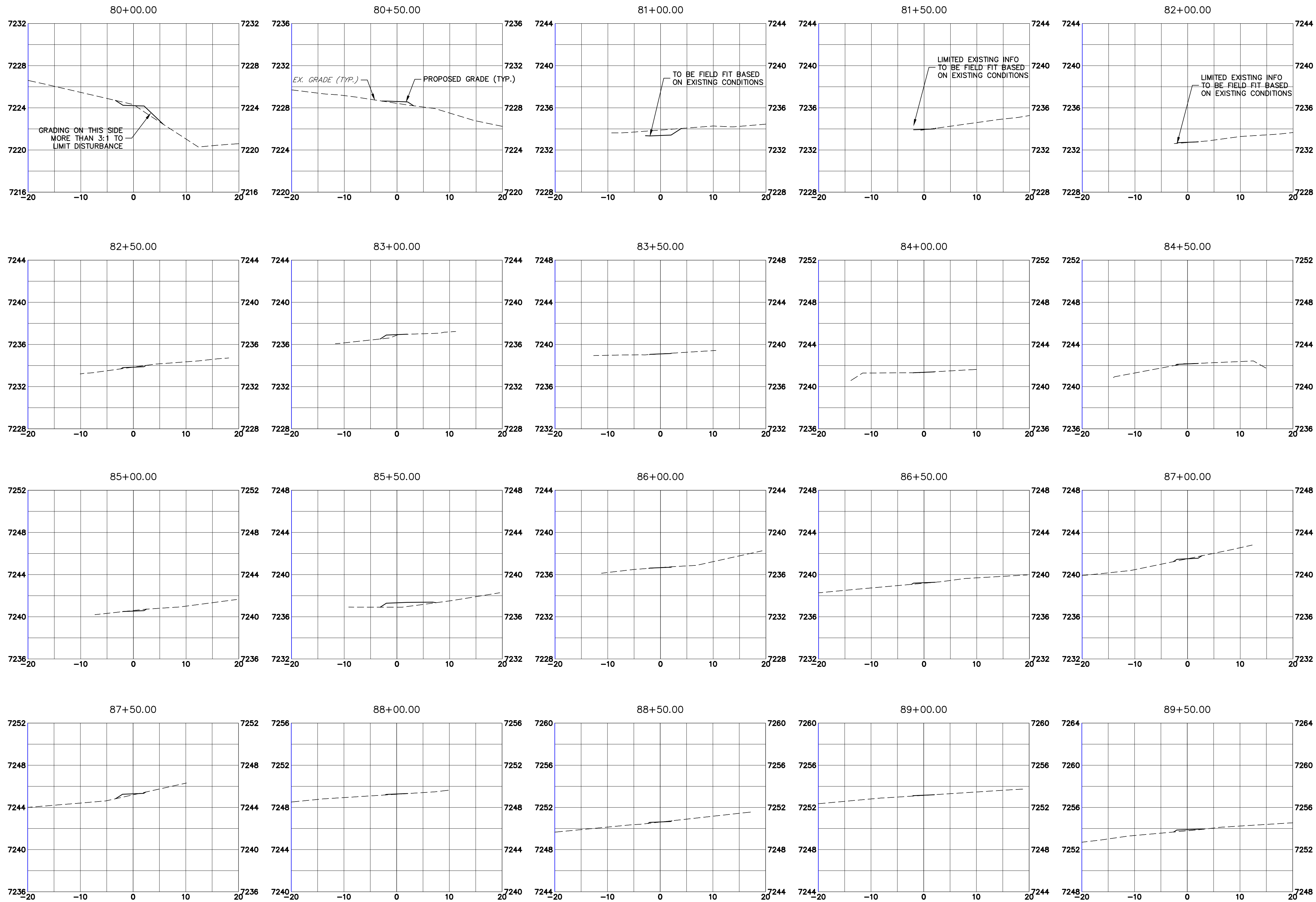
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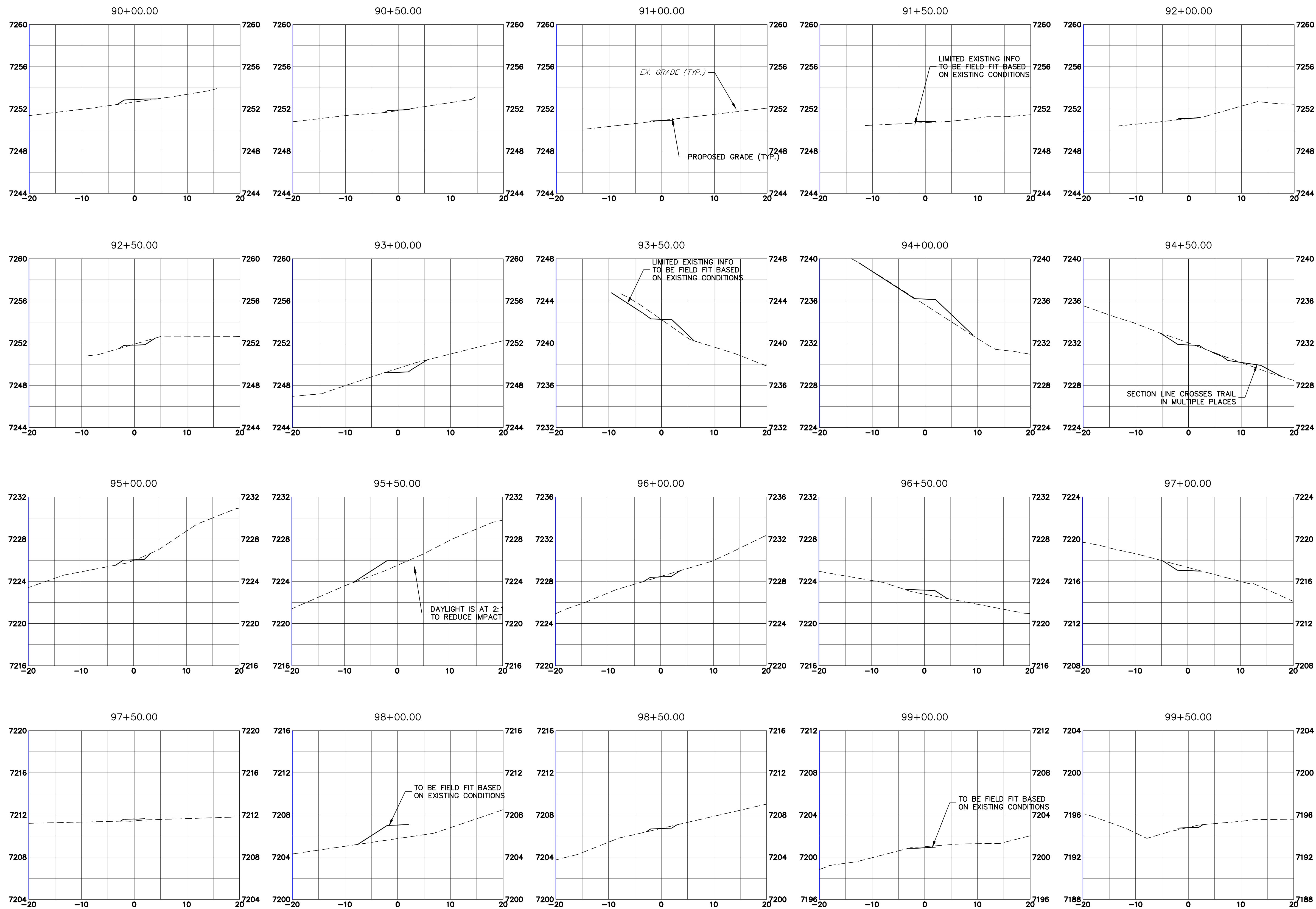
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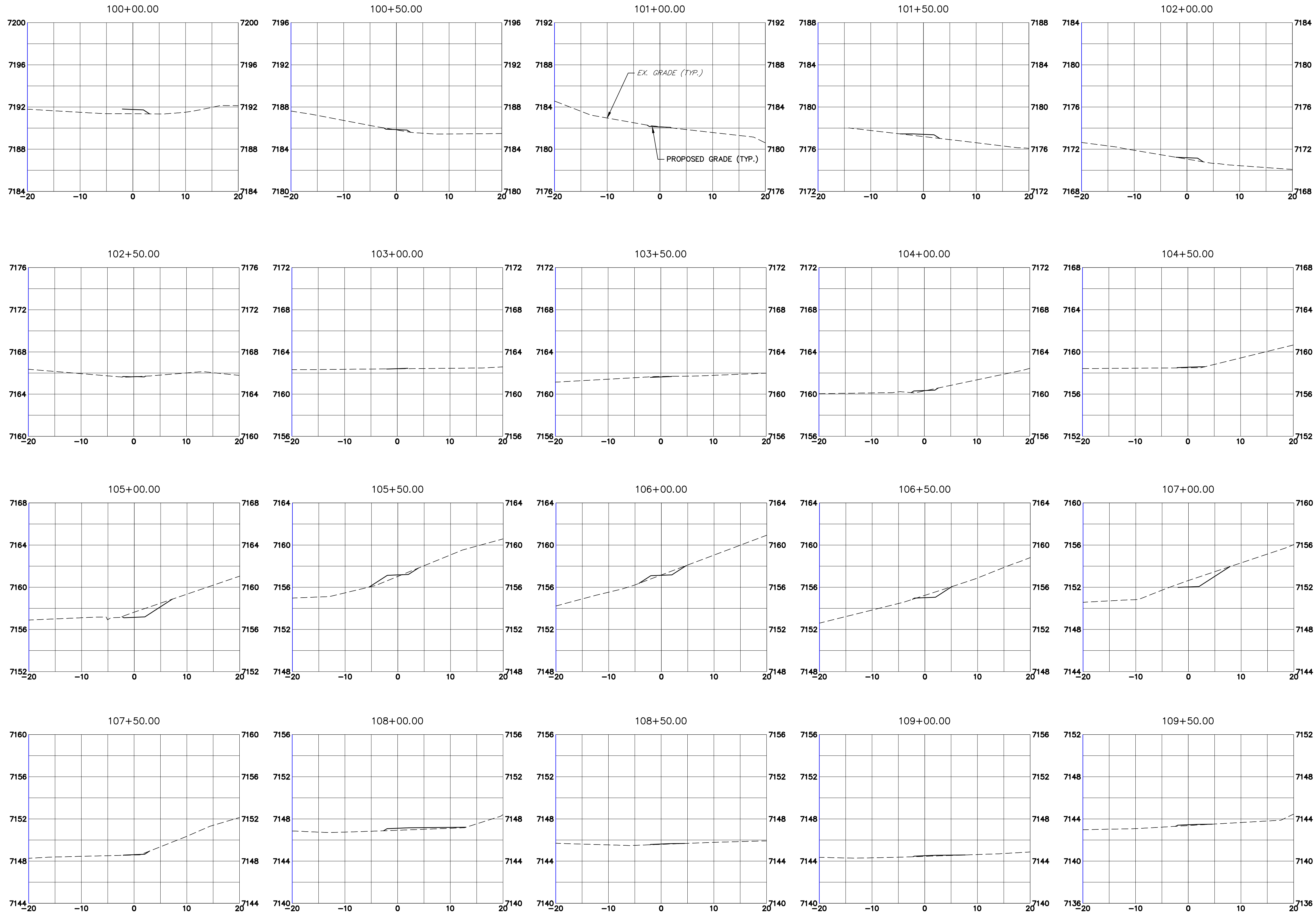


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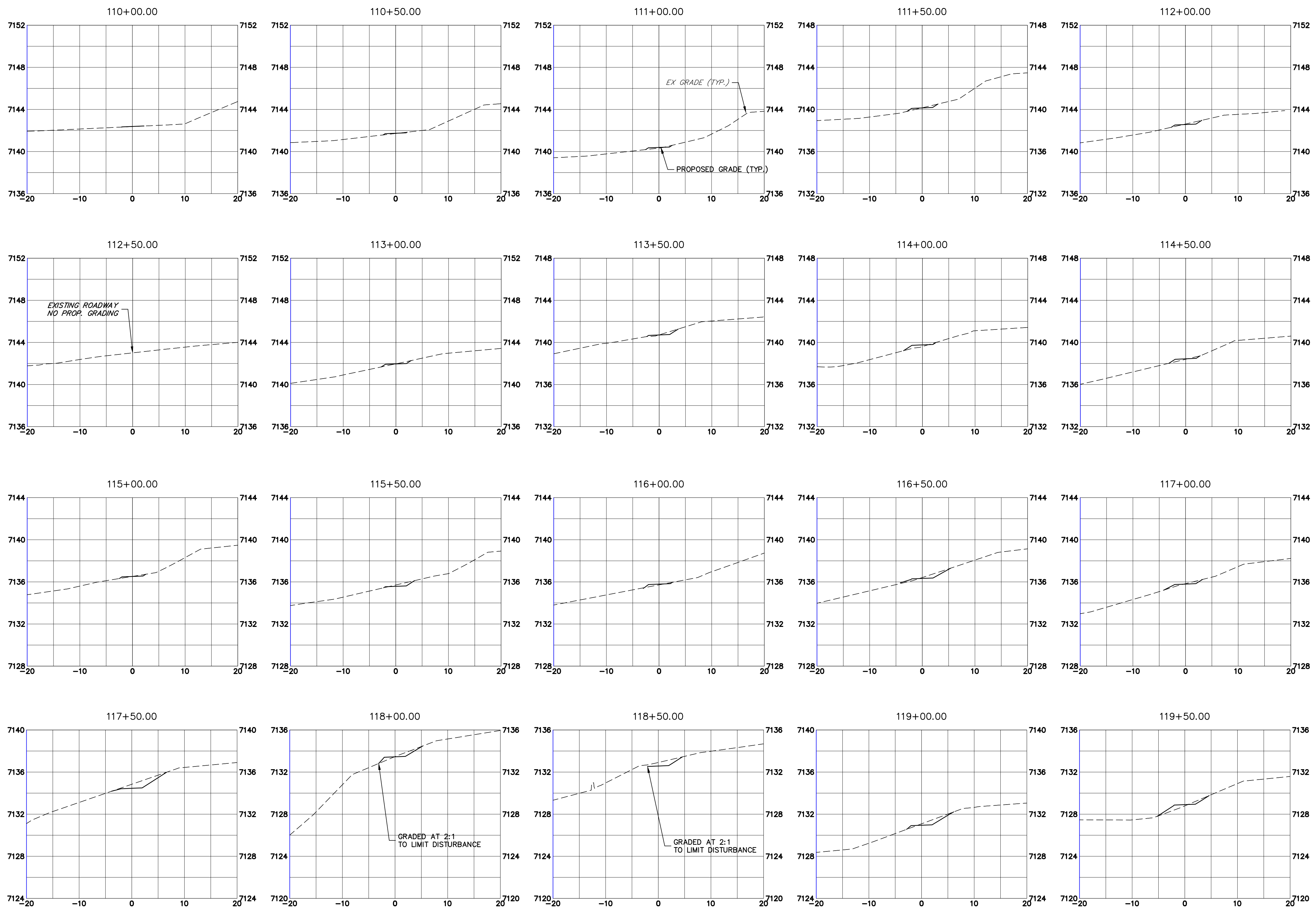





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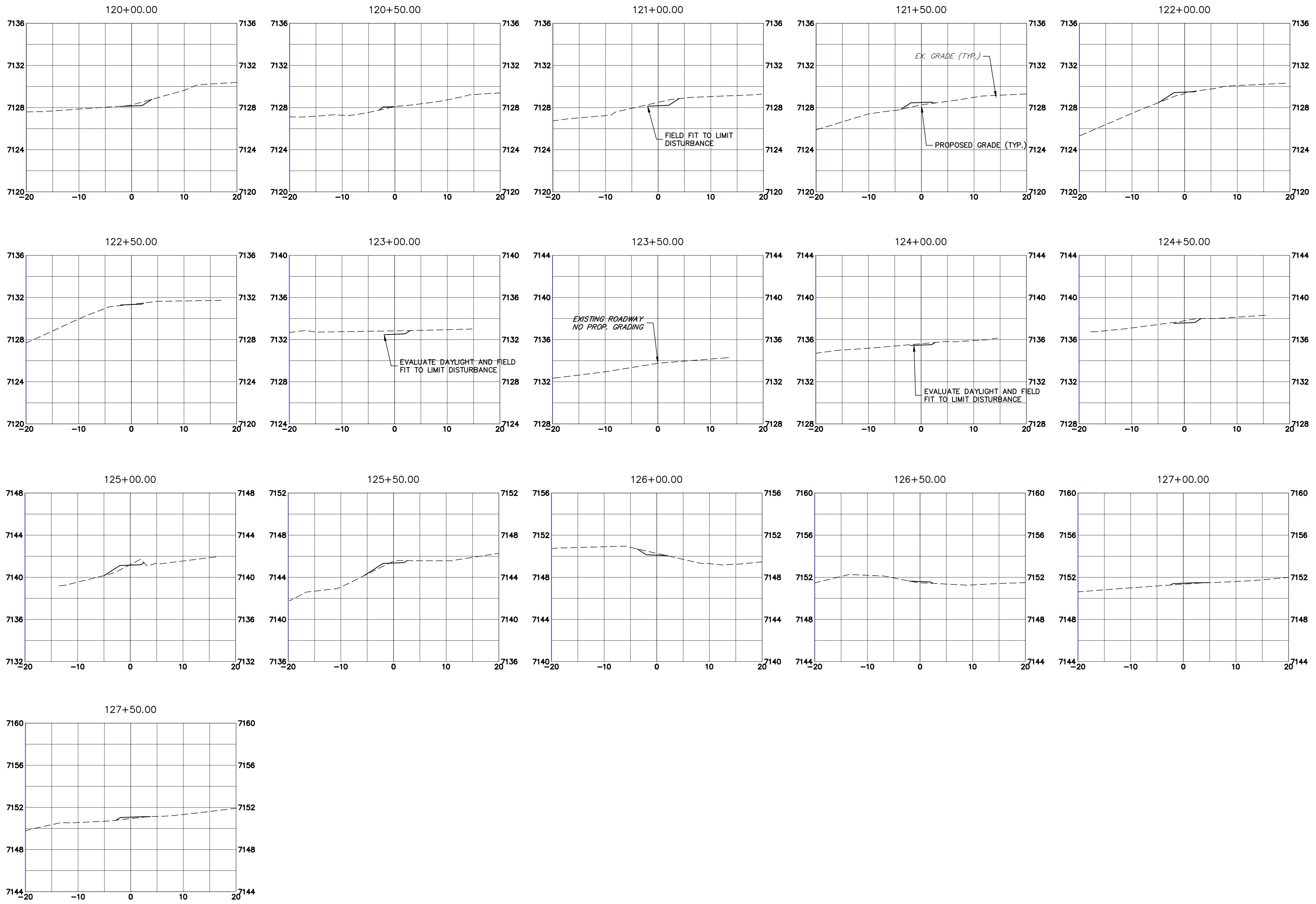
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