MONUMENT RIDGE EAST FILING NO. 1

CONSTRUCTION DRAWINGS

EL PASO COUNTY, COLORADO

Please include plans and details of proposed underdrain system. We need to confirm the design is acceptable. when underdrain systems are left up to the contractor to field fit, we see many unacceptable installs like discharging groundwater across sidewalks, to the public street, and into ponds.

The Underdrain daylight locations are shown on this plan set. Nothing is "left up to the contractor." See Utility Plan Set for continuation of the Underdrain System.

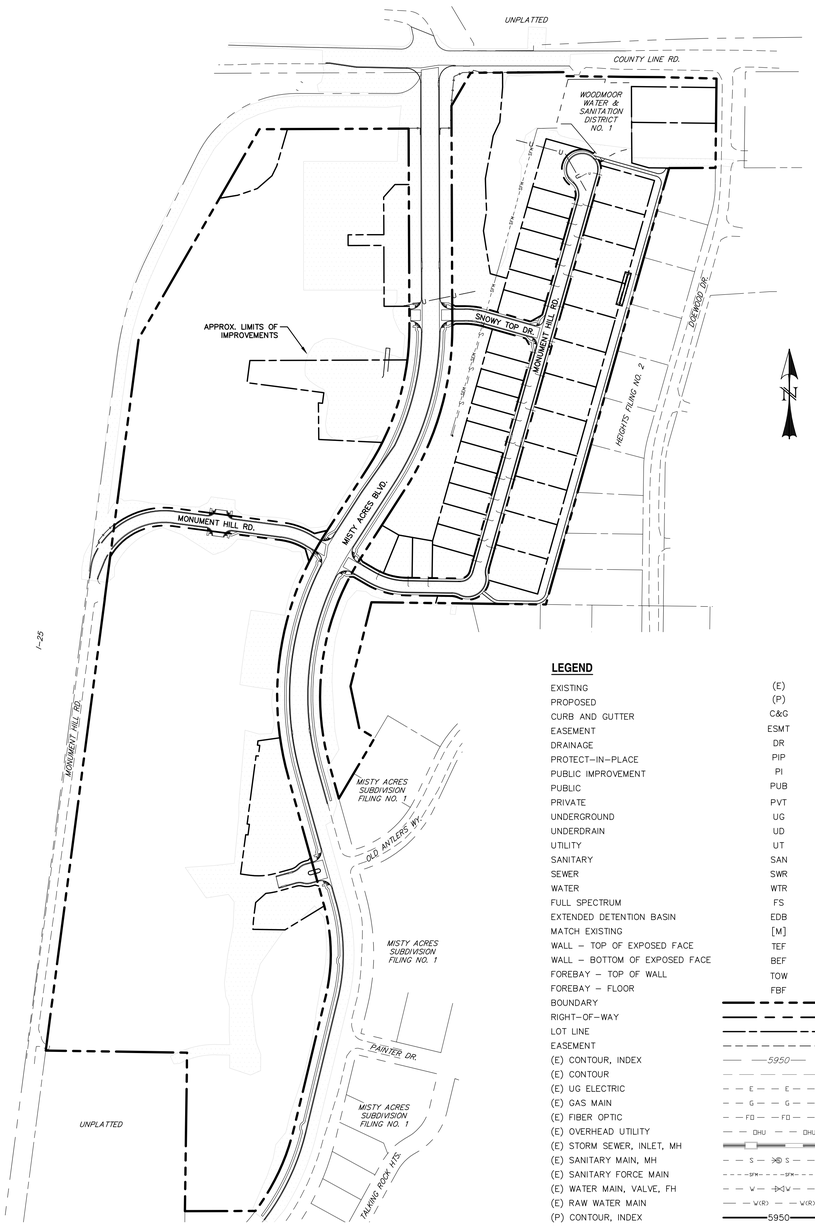
STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS:

1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
   A. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
   B. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
   C. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
   D. CDOT M & S STANDARDS
4. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) – INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS–ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOT AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.
16. EL PASO COUNTY DOES NOT OWN AND IS NOT RESPONSIBLE FOR THE UNDERDRAINS OR GROUNDWATER DISCHARGE SYSTEMS SHOWN ON THESE PLANS AND ASSUMES NO LIABILITY FOR WATER RIGHTS ADMINISTRATION BY APPROVING THESE PLANS. MAINTENANCE AND WATER RIGHTS ARE THE RESPONSIBILITY OF THE DEVELOPER AND THE MONUMENT RIDGE EAST FILING NO. 1 PROPERTY OWNER'S ASSOCIATION.

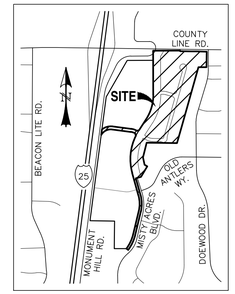
STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS:

1. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE, AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY (EPC) STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE (LDC), THE ENGINEERING CRITERIA MANUAL (ECM), THE DRAINAGE CRITERIA MANUAL (DCM) VOLUME 1 AND 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
2. A PRECONSTRUCTION MEETING BETWEEN THE PERMIT HOLDER(S) AND EL PASO COUNTY SHALL BE HELD PRIOR TO ANY CONSTRUCTION ACTIVITIES. IT IS THE RESPONSIBILITY OF THE PERMIT HOLDER(S) TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF. NO LAND DISTURBANCE OR CONSTRUCTION ACTIVITIES BEYOND THE INSTALLATION OF THE INITIAL CONSTRUCTION CONTROL MEASURES (CCMS), AS INDICATED ON THE APPROVED GEC PLAN OR CDS WITH GEC PLANS, MAY OCCUR PRIOR TO RECEIVING A NOTICE TO PROCEED (NTP) ISSUED BY THE ECM ADMINISTRATOR. FAILURE TO OBTAIN A NOTICE TO PROCEED PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES MAY RESULT IN AN IMMEDIATE STOP WORK ORDER (SWO).
3. CONSTRUCTION CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. STORMWATER RUNOFF FROM ALL DISTURBED AREAS AND SOIL STORAGE AREAS MUST UTILIZE OR FLOW TO ONE OR MORE CCM(S) TO MINIMIZE EROSION OR SEDIMENT IN THE DISCHARGE. THE CCM(S) MUST CONTAIN OR FILTER FLOWS IN ORDER TO PREVENT THE BYPASS OF FLOWS WITHOUT TREATMENT AND MUST BE APPROPRIATE FOR STORMWATER RUNOFF FROM DISTURBED AREAS AND FOR THE EXPECTED FLOW RATE, DURATION, AND FLOW CONDITIONS (E.G., SHEET OR CONCENTRATED FLOW).
4. ALL CCMS SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL FINAL STABILIZATION IS ACHIEVED. THE QUALIFIED STORMWATER MANAGER (QSM) SHALL ASSESS THE ADEQUACY OF CCMS AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CCMS ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CCMS.
5. PRIOR TO CONSTRUCTION THE PERMIT HOLDER(S) SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
6. MANAGEMENT OF THE STORMWATER MANAGEMENT PLAN (SWMP) DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QSM. THE SWMP SHALL BE LOCATED ON-SITE OR DIGITALLY ACCESSIBLE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES AND MUST BE IMPLEMENTED AS WRITTEN FROM THE START OF CONSTRUCTION ACTIVITY UNTIL FINAL STABILIZATION IS ACHIEVED. THE QSM SHALL AMEND THE SWMP WHEN THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF THE SITE WHICH WOULD REQUIRE THE IMPLEMENTATION OF NEW OR REVISED CCMS OR IF THE SWMP PROVES TO BE INEFFECTIVE IN CONTROLLING POLLUTANTS IN STORMWATER RUNOFF ASSOCIATED WITH CONSTRUCTION ACTIVITY OR WHEN CCMS ARE NO LONGER NECESSARY AND ARE REMOVED. THE QSM SHALL MAINTAIN A RECORD OF AMENDMENTS MADE TO THE SWMP THAT INCLUDES THE DATE AND IDENTIFICATION OF THE CHANGES.
7. EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A RECEIVING WATER UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED. IN ADDITION TO MAINTAINING 50 HORIZONTAL FEET OF PRE-EXISTING VEGETATION UPGRADIENT OF A RECEIVING WATER (UNLESS INFEASIBLE AND APPROVED), THE PERMIT HOLDER(S) MUST INSTALL CCMS UPGRADIENT OF THE VEGETATIVE BUFFER.
8. TEMPORARY STABILIZATION MEASURES SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
9. EROSION CONTROL BLANKET (ECB) OR OTHER APPROVED CONTROL MEASURE(S) SHALL BE USED ON SLOPES STEEPER THAN 3:1.
10. VEHICLE TRACKING CONTROLS (VTC) MUST BE IMPLEMENTED TO MINIMIZE VEHICLE TRACKING OF SEDIMENT FROM DISTURBED AREAS. VTCS MUST INCLUDE A STRUCTURE CONTROL MEASURE (E.G., TRACKING PAD) AND MAY INCLUDE A NON-STRUCTURAL CONTROL MEASURE (E.G., SWEEPING). MATERIAL TRACKED OFF-SITE SHALL BE CLEANED AND PROPERLY DISPOSED OF.
11. ANY TEMPORARY OR PERMANENT CONTROL MEASURE DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF-SITE.
12. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER, PERMANENT CONTROL MEASURES (PCMS), OR DITCHES EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
13. ALL PCMS SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT AFFECT THE DESIGN OR FUNCTION OF PCMS MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
14. SOIL COMPACTION MUST BE MINIMIZED IN AREAS WHERE INFILTRATION PCMS WILL BE INSTALLED OR IN AREAS WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION PCMS SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF SOIL COMPACTION DOES OCCUR IN AREAS WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER OR IN AREAS WHERE INFILTRATION PCMS WILL BE INSTALLED, DECOMPACTION OF THE SOIL MUST BE COMPLETED PRIOR TO PLANTING OR INSTALLATION OF THE PCM(S). AN INFILTRATION TEST MUST BE CONDUCTED FOR ALL INFILTRATION PCMS AND THE INFILTRATION TEST RESULTS SUBMITTED TO EL PASO COUNTY PRIOR TO PRELIMINARY ACCEPTANCE (PA).
15. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND PERMANENT STABILIZATION METHODS ARE COMPLETE. WHEN USING VEGETATIVE COVER AS A PERMANENT STABILIZATION METHOD, THE VEGETATION SHALL BE EVENLY DISTRIBUTED PERENNIAL VEGETATION AND OF THE VARIETY AND SPECIES FOUND IN THE COUNTY-APPROVED SEED MIXES OR IN THE APPROVED GEC PLAN. VEGETATION COVERAGE SHALL BE AT A MINIMUM EQUAL TO 70% OF WHAT WOULD HAVE BEEN PROVIDED BY NATIVE VEGETATION IN A LOCAL, UNDISTURBED AREA OR ADEQUATE REFERENCE SITE. ALL TEMPORARY CCMS SHALL BE REMOVED UPON FINAL STABILIZATION AND PRIOR TO STORMWATER PERMIT TERMINATION.
16. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
17. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO BE DISCHARGED OFFSITE OR TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR CONTROL MEASURES. CONCRETE WASHOUT AREAS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK, OR STREAM.
18. DURING CONSTRUCTION DEWATERING OPERATIONS, UNCONTAMINATED GROUNDWATER MAY BE DISCHARGED ON SITE IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENTS (CDPHE) LOW RISK DISCHARGE GUIDANCE POLICY FOR DISCHARGES OF UNCONTAMINATED GROUNDWATER TO LAND. IF CONSTRUCTION DEWATERING OPERATIONS ARE UNABLE TO MEET ALL CRITERIA, CONDITIONS, AND CONTROL MEASURE REQUIREMENTS OF THE LOW RISK DISCHARGE GUIDANCE POLICY, A COLORADO DISCHARGE PERMIT SYSTEM (CDPS) GENERAL PERMIT COG080000 WILL BE REQUIRED.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTE FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES, OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
20. THE PERMIT HOLDER(S) SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
21. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
22. MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. APPROPRIATE CMS SHALL BE UTILIZED BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
23. BULK STORAGE (I.E., INDIVIDUAL CONTAINERS OF 55 GALLONS OR GREATER) OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT, OR EQUIVALENT PROTECTION, TO CONTAIN ALL SPILLS ON-SITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM, OR OTHER FACILITIES.
24. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ON-SITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
25. ON AREAS OF EXPOSED SOIL, MINIMIZE DUST THROUGH THE APPROPRIATE APPLICATION OF WATER OR OTHER DUST SUPPRESSION TECHNIQUES. WATER APPLICATION MUST BE CONDUCTED IN A MANNER TO PREVENT DISCHARGE OFFSITE UNLESS AUTHORIZED BY A CDPS OR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT.
26. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
27. FOR SITES WHERE A SOILS REPORT IS REQUIRED, THE APPROVED SOILS REPORT FOR THIS SITE SHALL BE CONSIDERED A PART OF THESE PLANS.
28. PERMIT HOLDER(S) AND THEIR AGENTS SHALL COMPLY WITH THE 'COLORADO WATER QUALITY CONTROL ACT' (TITLE 25, ARTICLE 8, CRS), AND THE 'CLEAN WATER ACT' (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL VOLUME 2, AND ENGINEERING CRITERIA MANUAL. ALL APPLICABLE LOCAL, STATE, AND FEDERAL PERMITS MUST BE OBTAINED PRIOR TO CONSTRUCTION. IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
29. AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE OR LESS THAN 1 ACRE AND PART OF A LARGER COMMON PLAN OF DEVELOPMENT OR SALE THAT WOULD DISTURB 1 OR MORE ACRES, THE PERMIT HOLDER(S) SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE (COR400000 PERMIT) TO THE CDPHE WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A SWMP, OF WHICH THIS GEC PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
WATER QUALITY CONTROL DIVISION
WQCD – PERMITS
4300 CHERRY CREEK DRIVE SOUTH
DENVER, CO 80246-1530
ATTN: PERMITS UNIT



SITE MAP
SCALE: N.T.S.



VICINITY MAP
SCALE: N.T.S.

LEGEND

EXISTING	(E)
PROPOSED	(P)
CURB AND GUTTER	C&G
EASEMENT	ESMT
DRAINAGE	DR
PROTECT-IN-PLACE	PIP
PUBLIC IMPROVEMENT	PI
PUBLIC	PUB
PRIVATE	PVT
UNDERGROUND	UG
UNDERDRAIN	UD
UTILITY	UT
SANITARY	SAN
SEWER	SWR
WATER	WTR
FULL SPECTRUM	FS
EXTENDED DETENTION BASIN	EDB
MATCH EXISTING	[M]
WALL – TOP OF EXPOSED FACE	TEF
WALL – BOTTOM OF EXPOSED FACE	BEF
FOREBAY – TOP OF WALL	TOW
FOREBAY – FLOOR	FBF
BOUNDARY	
RIGHT-OF-WAY	
LOT LINE	
EASEMENT	
(E) CONTOUR, INDEX	5950
(E) CONTOUR	
(E) UG ELECTRIC	E
(E) GAS MAIN	G
(E) FIBER OPTIC	FO
(E) OVERHEAD UTILITY	OHU
(E) STORM SEWER, INLET, MH	
(E) SANITARY MAIN, MH	S
(E) SANITARY FORCE MAIN	SFM
(E) WATER MAIN, VALVE, FH	W
(E) RAW WATER MAIN	W(R)
(P) CONTOUR, INDEX	5950
(P) CONTOUR	
(P) SANITARY MAIN, MH	S
(P) SANITARY MAIN, MH	SFM
(P) STORM SEWER, INLET, MH	
(P) WATER MAIN, VALVE, FH	W

ENGINEERS STATEMENT:

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

NOT FOR CONSTRUCTION

RAYMOND _____ DATE _____

OWNER 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.

OWNER/DEVELOPER NAME: _____ DATE _____

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 DIRECTOR'S DISCRETION.

JOSHUA J. PALMER, P.E. _____ DATE _____
COUNTY ENGINEER / ECM ADMINISTRATOR

SHEET INDEX:

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– POND 1	5	OF	29
– POND 2	6	OF	29
– POND 4	7	OF	29
– POND 5	8	OF	29
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SIGNAGE & STRIPING PLAN	17	OF	29
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– STM-03, STM-04, STM-05, & STM-06	20	OF	29
– STM-07, STM-08, STM-09, & STM-10	21	OF	29
– STM-11 (STA: 1+00 ~ 14+25) & STM-11A	22	OF	29
– STM-11 (STA: 14+25 ~ 18+60) & STM-13	23	OF	29
– STM-14, STM-16, STM-17, STM-18, & STM-19	24	OF	29
– STM-20, STM-21, STM-22, STM-23, & STM-24	25	OF	29
– STM-36	26	OF	29
DETAIL SHEET	27	OF	29
DETAIL SHEET	28	OF	29
DETAIL SHEET	29	OF	29

REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	11/04/25
2	ADDRESS AGENCY COMMENTS	12/31/25
3	ADDRESS AGENCY COMMENTS	04/08/26
4	ADDRESS AGENCY COMMENTS	05/11/26

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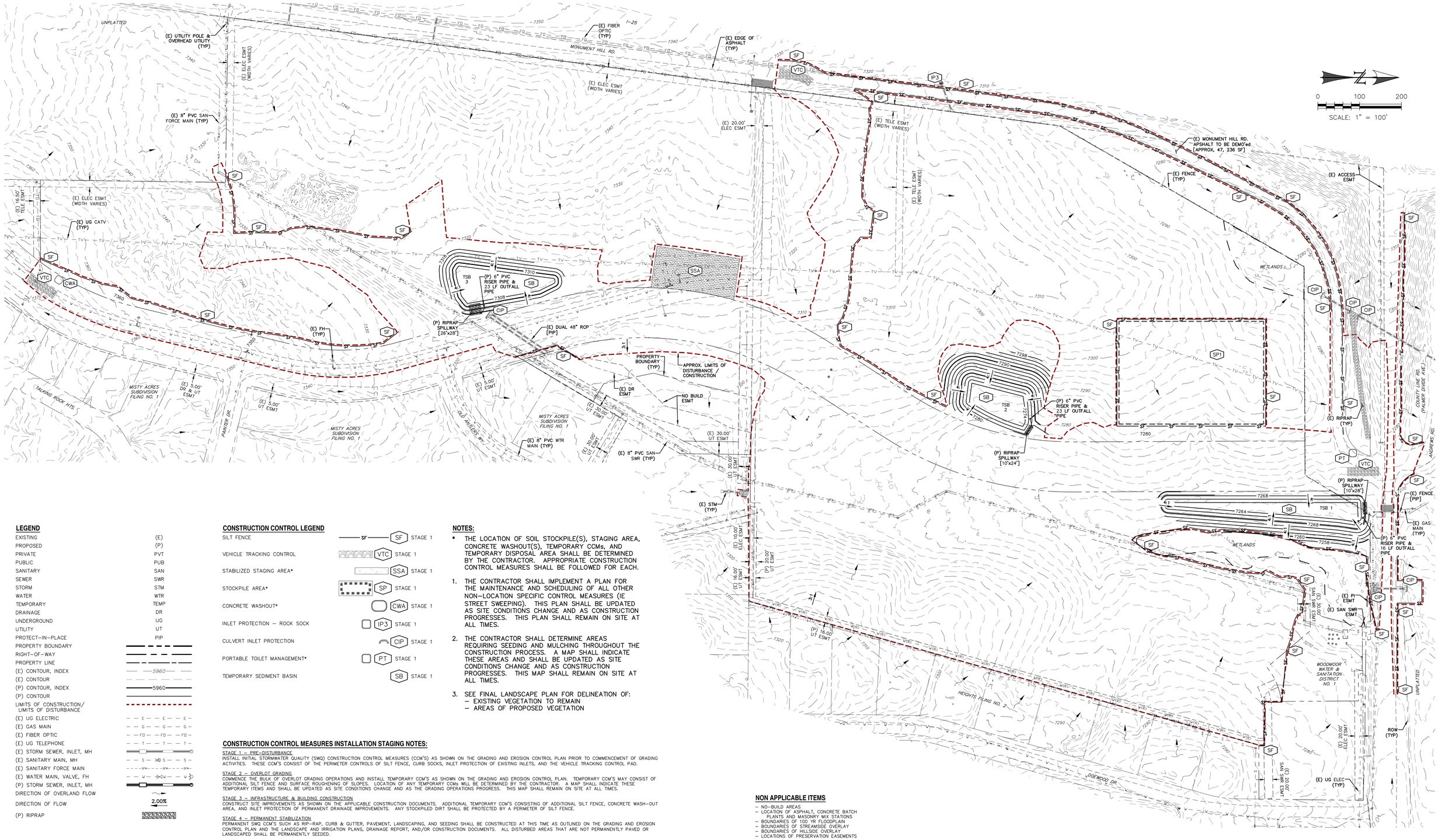
PREPARED FOR:
MONUMENT RIDGE EAST, LLC
5055 LIST DRIVE
COLORADO SPRINGS, CO 80919

PRC ENGINEERING
1685 W. UINTAH STREET, SUITE 114
COLORADO SPRINGS, CO 80904
(719) 291-2744

MONUMENT HILL EAST FILING NO. 1
CONSTRUCTION DRAWINGS

DESIGNED BY: MGP	DRAWN BY: MGP
SCALE: N/A	DATE: 04/08/25
JOB NUMBER: 24-001	SHEET: 1 OF 29

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LEGEND

EXISTING	(E)
PROPOSED	(P)
PRIVATE	PVT
PUBLIC	PUB
SANITARY	SAN
SEWER	SWR
STORM	STM
WATER	WTR
TEMPORARY	TEMP
DRAINAGE	DR
UNDERGROUND	UG
UTILITY	UT
PROTECT-IN-PLACE	PIP
PROPERTY BOUNDARY	
RIGHT-OF-WAY	
PROPERTY LINE	
(E) CONTOUR, INDEX	5960
(E) CONTOUR	
(P) CONTOUR, INDEX	5960
(P) CONTOUR	
LIMITS OF CONSTRUCTION/ LIMITS OF DISTURBANCE	
(E) UG ELECTRIC	E
(E) GAS MAIN	G
(E) FIBER OPTIC	FO
(E) UG TELEPHONE	T
(E) STORM SEWER, INLET, MH	
(E) SANITARY MAIN, MH	S
(E) SANITARY FORCE MAIN	SFM
(E) WATER MAIN, VALVE, FH	W
(P) STORM SEWER, INLET, MH	
DIRECTION OF OVERLAND FLOW	
DIRECTION OF FLOW	2.00%
(P) RIPRAP	

CONSTRUCTION CONTROL LEGEND

SILT FENCE	SF	STAGE 1
VEHICLE TRACKING CONTROL	VTC	STAGE 1
STABILIZED STAGING AREA*	SSA	STAGE 1
STOCKPILE AREA*	SP	STAGE 1
CONCRETE WASHOUT*	CWA	STAGE 1
INLET PROTECTION – ROCK SOCK	IP3	STAGE 1
CULVERT INLET PROTECTION	CIP	STAGE 1
PORTABLE TOILET MANAGEMENT*	PT	STAGE 1
TEMPORARY SEDIMENT BASIN	SB	STAGE 1

NOTES:

* THE LOCATION OF SOIL STOCKPILE(S), STAGING AREA, CONCRETE WASHOUT(S), TEMPORARY CCMs, AND TEMPORARY DISPOSAL AREA SHALL BE DETERMINED BY THE CONTRACTOR. APPROPRIATE CONSTRUCTION CONTROL MEASURES SHALL BE FOLLOWED FOR EACH.

1. THE CONTRACTOR SHALL IMPLEMENT A PLAN FOR THE MAINTENANCE AND SCHEDULING OF ALL OTHER NON-LOCATION SPECIFIC CONTROL MEASURES (IE STREET SWEEPING). THIS PLAN SHALL BE UPDATED AS SITE CONDITIONS CHANGE AND AS CONSTRUCTION PROGRESSES. THIS PLAN SHALL REMAIN ON SITE AT ALL TIMES.
2. THE CONTRACTOR SHALL DETERMINE AREAS REQUIRING SEEDING AND MULCHING THROUGHOUT THE CONSTRUCTION PROCESS. A MAP SHALL INDICATE THESE AREAS AND SHALL BE UPDATED AS SITE CONDITIONS CHANGE AND AS CONSTRUCTION PROGRESSES. THIS MAP SHALL REMAIN ON SITE AT ALL TIMES.
3. SEE FINAL LANDSCAPE PLAN FOR DELINEATION OF:
   - EXISTING VEGETATION TO REMAIN
   - AREAS OF PROPOSED VEGETATION

CONSTRUCTION CONTROL MEASURES INSTALLATION STAGING NOTES:

STAGE 1 – PRE-DISTURBANCE
INSTALL INITIAL STORMWATER QUALITY (SWQ) CONSTRUCTION CONTROL MEASURES (CCM'S) AS SHOWN ON THE GRADING AND EROSION CONTROL PLAN PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES. THESE CCM'S CONSIST OF THE PERIMETER CONTROLS OF SILT FENCE, CURB SOCKS, INLET PROTECTION OF EXISTING INLETS, AND THE VEHICLE TRACKING CONTROL PAD.

STAGE 2 – OVERLOT GRADING
COMMENCE THE BULK OF OVERLOT GRADING OPERATIONS AND INSTALL TEMPORARY CCM'S AS SHOWN ON THE GRADING AND EROSION CONTROL PLAN. TEMPORARY CCM'S MAY CONSIST OF ADDITIONAL SILT FENCE AND SURFACE ROUGHENING OF SLOPES. LOCATION OF ANY TEMPORARY CCMs WILL BE DETERMINED BY THE CONTRACTOR. A MAP SHALL INDICATE THESE TEMPORARY ITEMS AND SHALL BE UPDATED AS SITE CONDITIONS CHANGE AND AS THE GRADING OPERATIONS PROGRESS. THIS MAP SHALL REMAIN ON SITE AT ALL TIMES.

STAGE 3 – INFRASTRUCTURE & BUILDING CONSTRUCTION
CONSTRUCT SITE IMPROVEMENTS AS SHOWN ON THE APPLICABLE CONSTRUCTION DOCUMENTS. ADDITIONAL TEMPORARY CCM'S CONSISTING OF ADDITIONAL SILT FENCE, CONCRETE WASH-OUT AREA, AND INLET PROTECTION OF PERMANENT DRAINAGE IMPROVEMENTS. ANY STOCKPILED DIRT SHALL BE PROTECTED BY A PERIMETER OF SILT FENCE.

STAGE 4 – PERMANENT STABILIZATION
PERMANENT SWQ CCM'S SUCH AS RIP-RAP, CURB & GUTTER, PAVEMENT, LANDSCAPING, AND SEEDING SHALL BE CONSTRUCTED AT THIS TIME AS OUTLINED ON THE GRADING AND EROSION CONTROL PLAN AND THE LANDSCAPE AND IRRIGATION PLANS, DRAINAGE REPORT, AND/OR CONSTRUCTION DOCUMENTS. ALL DISTURBED AREAS THAT ARE NOT PERMANENTLY PAVED OR LANDSCAPED SHALL BE PERMANENTLY SEEDED.

OTHER NON-STRUCTURAL CCM'S INCLUDE, BUT ARE NOT LIMITED TO, LIMITING DISTURBED AREAS AND STREET SWEEPING.

ALL AREAS TO BE VEGETATED WITH SEEDING SHOULD ALSO BE TEMPORARILY STABILIZED VIA SURFACE ROUGHENING OR SOME OTHER MEANS.

NON APPLICABLE ITEMS

- NO-BUILD AREAS
- LOCATION OF ASPHALT, CONCRETE BATCH PLANTS AND MASONRY MIX STATIONS
- BOUNDARIES OF 100 YR FLOODPLAIN
- BOUNDARIES OF STREAMSIDE OVERLAY
- BOUNDARIES OF HILLSIDE OVERLAY
- LOCATIONS OF PRESERVATION EASEMENTS

REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	11/04/25
2	ADDRESS AGENCY COMMENTS	12/31/25
3	ADDRESS AGENCY COMMENTS	04/08/26
4	ADDRESS AGENCY COMMENTS	05/11/26

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MONUMENT RIDGE EAST, LLC
5055 LIST DRIVE
COLORADO SPRINGS, CO 80919

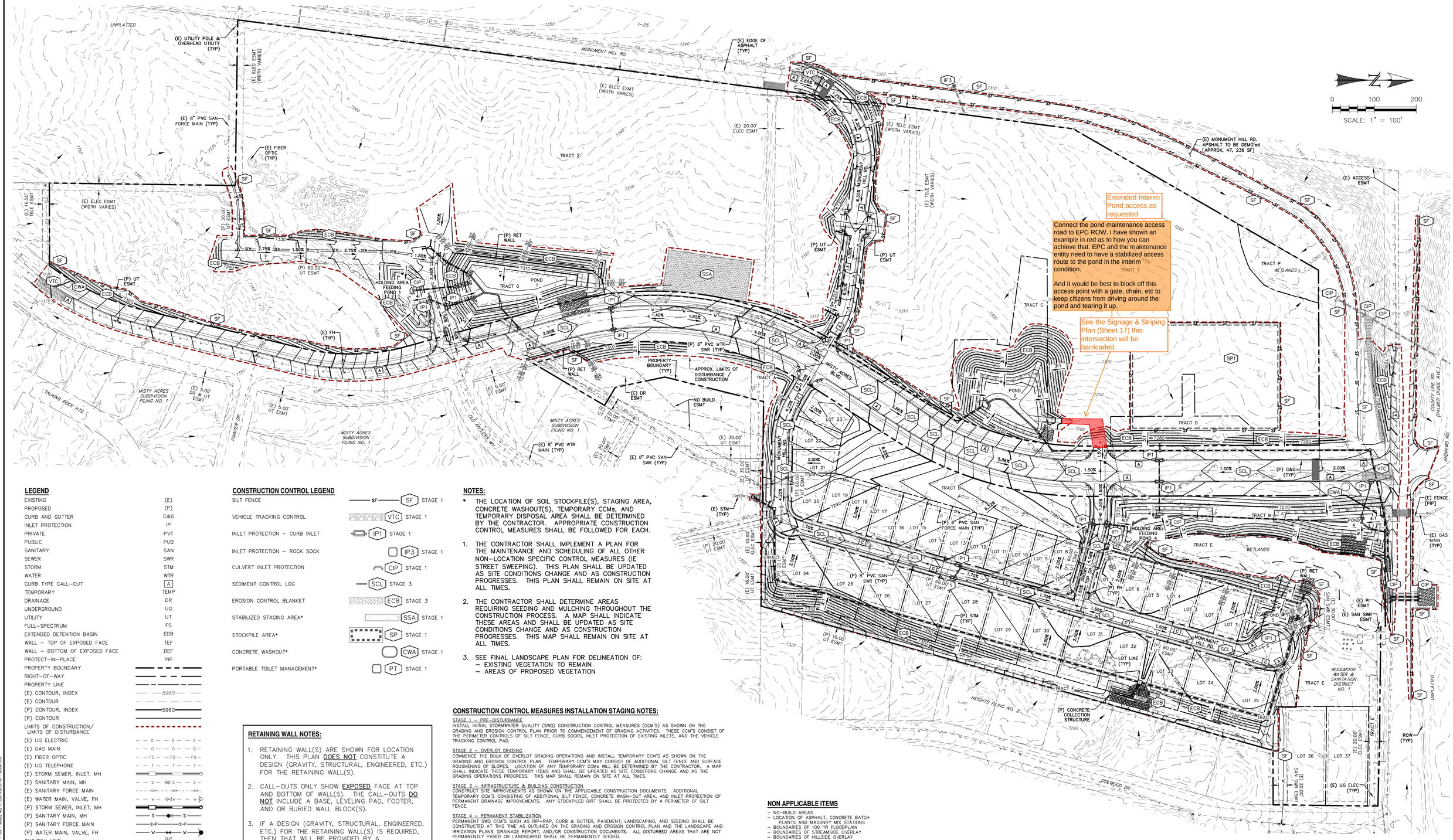
PREPARED
NOT FOR CONSTRUCTION
RAYMO

PRC ENGINEERING
1685 W. UINTAH STREET, SUITE 114
COLORADO SPRINGS, CO 80904
(719) 291-2744

MONUMENT HILL EAST FILING NO. 1
INITIAL GRADING & EROSION CONTROL PLAN

DESIGNED BY: MGP	DRAWN BY: MGP
SCALE: 1" = 100'	DATE: 04/08/25
JOB NUMBER	SHEET
24-001	2 OF 29

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LEGEND

EXISTING	(E)
PROPOSED	(P)
CURB AND GUTTER	C&G
INLET PROTECTION	IP
PRIVATE	PVT
PUBLIC	PUB
SANITARY	SAN
SEWER	SWR
STORM	STM
WATER	WTR
CURB TYPE CALL–OUT	A
TEMPORARY	TEMP
DRAINAGE	DR
UNDERGROUND	UG
UTILITY	UT
FULL–SPECTRUM	FS
EXTENDED DETENTION BASIN	EDB
WALL – TOP OF EXPOSED FACE	TEF
WALL – BOTTOM OF EXPOSED FACE	BEF
PROTECT–IN–PLACE	PIP
PROPERTY BOUNDARY	
RIGHT–OF–WAY	
PROPERTY LINE	
(E) CONTOUR, INDEX	5960
(E) CONTOUR	
(P) CONTOUR, INDEX	5960
(P) CONTOUR	
LIMITS OF CONSTRUCTION/ LIMITS OF DISTURBANCE	
(E) UG ELECTRIC	E
(E) GAS MAIN	G
(E) FIBER OPTIC	FO
(E) UG TELEPHONE	T
(E) STORM SEWER, INLET, MH	
(E) SANITARY MAIN, MH	S
(E) SANITARY FORCE MAIN	SFM
(E) WATER MAIN, VALVE, FH	W
(P) STORM SEWER, INLET, MH	
(P) SANITARY MAIN, MH	S
(P) SANITARY FORCE MAIN	S-F
(P) WATER MAIN, VALVE, FH	W
CUT/FILL LINE	CUT / FILL
DIRECTION OF OVERLAND FLOW	
RET. WALL CALL–OUT	XX.XX TEF / XX.XX BEF
DIRECTION OF FLOW	2.00%

CONSTRUCTION CONTROL LEGEND

SILT FENCE	SF	STAGE 1
VEHICLE TRACKING CONTROL	VTC	STAGE 1
INLET PROTECTION – CURB INLET	IP1	STAGE 1
INLET PROTECTION – ROCK SOCK	IP3	STAGE 1
CULVERT INLET PROTECTION	CIP	STAGE 1
SEDIMENT CONTROL LOG	SCL	STAGE 3
EROSION CONTROL BLANKET	ECB	STAGE 3
STABILIZED STAGING AREA*	SSA	STAGE 1
STOCKPILE AREA*	SP	STAGE 1
CONCRETE WASHOUT*	CWA	STAGE 1
PORTABLE TOILET MANAGEMENT*	PT	STAGE 1

NOTES:

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3. SEE FINAL LANDSCAPE PLAN FOR DELINEATION OF:
   – EXISTING VEGETATION TO REMAIN
   – AREAS OF PROPOSED VEGETATION

RETAINING WALL NOTES:

1. RETAINING WALL(S) ARE SHOWN FOR LOCATION ONLY. THIS PLAN DOES NOT CONSTITUTE A DESIGN (GRAVITY, STRUCTURAL, ENGINEERED, ETC.) FOR THE RETAINING WALL(S).
2. CALL–OUTS ONLY SHOW EXPOSED FACE AT TOP AND BOTTOM OF WALL(S). THE CALL–OUTS DO NOT INCLUDE A BASE, LEVELING PAD, FOOTER, AND OR BURIED WALL BLOCK(S).
3. IF A DESIGN (GRAVITY, STRUCTURAL, ENGINEERED, ETC.) FOR THE RETAINING WALL(S) IS REQUIRED, THEN THAT WILL BE PROVIDED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF COLORADO UNDER SEPARATE COVER.

CONSTRUCTION CONTROL MEASURES INSTALLATION STAGING NOTES:

STAGE 1 – PRE–DISTURBANCE
INSTALL INITIAL STORMWATER QUALITY (SWQ) CONSTRUCTION CONTROL MEASURES (CCM'S) AS SHOWN ON THE GRADING AND EROSION CONTROL PLAN PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES. THESE CCM'S CONSIST OF THE PERIMETER CONTROLS OF SILT FENCE, CURB SOCKS, INLET PROTECTION OF EXISTING INLETS, AND THE VEHICLE TRACKING CONTROL PAD.

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– LOCATIONS OF PRESERVATION EASEMENTS

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MONUMENT RIDGE EAST, LLC
5055 LIST DRIVE
COLORADO SPRINGS, CO 80919

PREPARED BY:
RAYMOND A. PRESLEY, PE
NOT FOR CONSTRUCTION

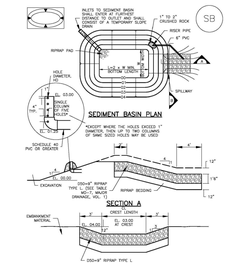
PRC ENGINEERING
1685 W. UINTAH STREET, SUITE 114
COLORADO SPRINGS, CO 80904
(719) 291–2744

MONUMENT HILL EAST FILING NO. 1
FINAL GRADING & EROSION CONTROL PLAN

DESIGNED BY: MGP	DRAWN BY: MGP
SCALE: 1" = 100'	DATE: 04/08/25
JOB NUMBER: 24–001	SHEET: 3 OF 29

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Sediment Basin (SB) SC-7



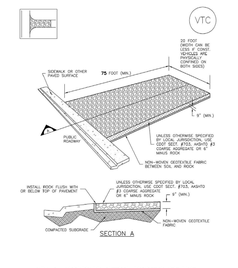
SB-1: SIZING INFORMATION FOR STANDARD SEDIMENT BASIN

Upstream Drainage Area (Tributary Area) (acres)	Basin Bottom Width (W)	Spillway Crest Length (SL)	Riser Pipe Diameter (DIA)
1	12 ft	3 ft	6in
2	12 ft	3 ft	6in
3	12 ft	3 ft	6in
4	12 ft	3 ft	6in
5	12 ft	3 ft	6in
6	12 ft	3 ft	6in
7	12 ft	3 ft	6in
8	12 ft	3 ft	6in
TSB 9	12 ft	3 ft	6in
TSB 10	12 ft	3 ft	6in

SEDIMENT BASIN INSTALLATION NOTES

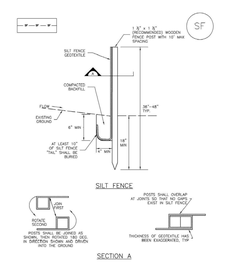
1. SEE PLAN VIEW FOR:
   —LOCATION OF SEDIMENT BASIN
   —DIRECTION OF FLOW (INFLOW OR NONSTANDARD BASIN)
   —FOR STANDARD BASIN, BOTTOM WIDTH (W), CREST LENGTH (SL), AND HOLE SIZE (DIA)
   —FOR NONSTANDARD BASIN, SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN.
2. FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
3. SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY THAT RELIES ON ON BASINS AS AN E/SEDIMENTATION CONTROL.
4. EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND OTHER UNSUITABLE MATERIAL. THE FINES CONTENT SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.
5. EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
6. PIPE SCH 40 OR GREATER SHALL BE USED.
7. THE DETAILS SHOWN ON THESE SHEETS PERTAIN TO STANDARD SEDIMENT BASIN(S) FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN FOR DRAINAGE AREAS GREATER THAN 15 ACRES. SEDIMENT BASINS FOR ANY SEDIMENT BASIN(S) THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES.

Vehicle Tracking Control (VTC) SM-4

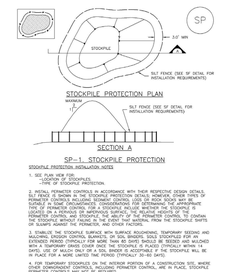


VTC–1. AGGREGATE VEHICLE TRACKING CONTROL

Silt Fence (SF) SC-1



Stockpile Management (SP) MM-2

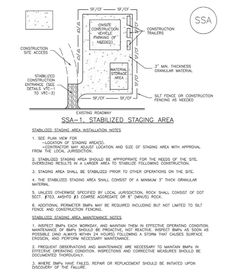


SP–1. STOCKPILE PROTECTION

STOCKPILE PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   —LOCATION OF STOCKPILES.
   —TYPE OF STOCKPILE PROTECTION.
2. ALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILT FENCE OR EQUIVALENT SEDIMENT CONTROL LOGS OR ROCK SOCKS SHALL BE INSTALLED AROUND THE PERIMETER OF ALL STOCKPILES UNLESS ANOTHER TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A PERVIOUS OR IMPERVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE STOCKPILE AND PERIMETER CONTROL, AND THE SLOPE OF THE GROUND. IT IS CRITICAL THAT THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHIFTS OR SLUMPS AGAINST THE PERIMETER AND OTHER FACTORS.
3. FOR STOCKPILES THAT WILL BE UNDISTURBED FOR LONGER THAN SEVEN DAYS, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS OR SOIL BINDERS, SHALL STOCKPILES FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 45 DAYS) SHOULD BE SEEDED AND MULCHED AS SOON AS POSSIBLE AFTER THE STOCKPILE IS FORMED. IF SEEDING IS NOT FEASIBLE (E.G., DUE TO LIMITED SPACE), USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30–60 DAYS).
4. FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS, INCLUDING PERIMETER CONTROLS, ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

Stabilized Staging Area (SSA) SM-6



SSA–1. STABILIZED STAGING AREA

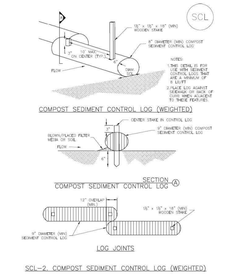
STABILIZED STAGING AREA INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   —LOCATION OF STAGING AREA(S).
   —DIMENSIONS, INCLUDING LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE, OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
3. STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
4. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.
5. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" DIAMETER ROCK.
6. ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE OR CONSTRUCTION FENCING.

STABILIZED STAGING AREA MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE; NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. PERIODICALLY TOP DRESS WITH ADDITIONAL STONE AS NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. WHEN STAGING AREA IS NO LONGER NEEDED, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS OR SOIL BINDERS, SHALL STOCKPILES FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 45 DAYS) SHOULD BE SEEDED AND MULCHED AS SOON AS POSSIBLE AFTER THE STOCKPILE IS FORMED. IF SEEDING IS NOT FEASIBLE (E.G., DUE TO LIMITED SPACE), USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30–60 DAYS).
5. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
6. ALL STAGING AREA MATERIALS, INCLUDING BMPs, SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP, TYPICALLY WHEN SEDIMENT IS APPROXIMATELY ½ OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.
7. ROCK SHALL BE REPURPOSED OR DISPOSED AS NECESSARY IF ROUTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

SC-2 Sediment Control Log (SCL)



SCL–2. COMPOST SEDIMENT CONTROL LOG (WEIGHTED)

Surface Roughening (SR) EC-1

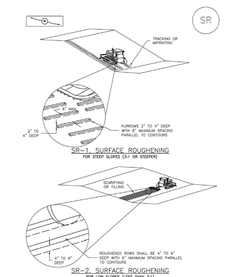


Table 5-1. El Paso County Conservation District All-Purpose Mix for Upland, Transition and Permanent Control Measure Areas

Common Name	Scientific Name	Growth Season / Form	% of Mix	Pounds PLS		
				• Irrigated broadcast • Irrigated hydroseeded	• Non-irrigated broadcast • Non-irrigated hydroseeded • Irrigated drilled	• Non-irrigated drilled
				60 seeds/sq ft	60 seeds/sq ft	20 seeds/sq ft
Bluestem, big	*Andropogon gerardii*	Warm, sod	20	4.4	2.2	1.1
Grama, blue	*Bouteloua gracilis*	Warm, bunch	10	0.5	0.25	0.13
Green needlegrass[2]	*Nassella viridula*	Cool, bunch	10	2	1	0.5
Wheatgrass, western[2]	*Pascopyrum smithii*	Cool, sod	20	6.4	3.2	1.6
Grama, sideoats	*Bouteloua curtipendula*	Warm, bunch	10	2	1	0.5
Switchgrass[2]	*Panicum virgatum*	Warm, bunch/sod	10	0.8	0.4	0.2
Prairie sandreed	*Calamovilfa longifolia*	Warm, sod	10	1.2	0.6	0.3
Yellow indiangrass[2]	*Sorghastrum nutans*	Warm, sod	10	2	1	0.5
		Seed rate (lbs PLS/acre):		19.3	9.7	4.8

*Iron portions of facilities located near or on the bottom or where wet soil conditions occur. Planting of potted nursery stock wetland plants 2-foot on center is recommended for sites with verified hydrology.

[2]Species that will do well in the bottom of pond areas.

Sediment Basin (SB) SC-7

SEDIMENT BASIN INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   —LOCATION OF SEDIMENT BASIN
   —DIRECTION OF FLOW (INFLOW OR NONSTANDARD BASIN)
   —FOR STANDARD BASIN, BOTTOM WIDTH (W), CREST LENGTH (SL), AND HOLE SIZE (DIA)
   —FOR NONSTANDARD BASIN, SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN.
2. FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
3. SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY THAT RELIES ON ON BASINS AS AN E/SEDIMENTATION CONTROL.
4. EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND OTHER UNSUITABLE MATERIAL. THE FINES CONTENT SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.
5. EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
6. PIPE SCH 40 OR GREATER SHALL BE USED.
7. THE DETAILS SHOWN ON THESE SHEETS PERTAIN TO STANDARD SEDIMENT BASIN(S) FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN FOR DRAINAGE AREAS GREATER THAN 15 ACRES. SEDIMENT BASINS FOR ANY SEDIMENT BASIN(S) THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES.

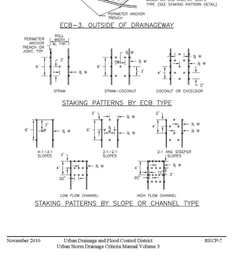
SEDIMENT BASIN MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE; NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP, TYPICALLY WHEN SEDIMENT IS APPROXIMATELY ½ OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.
5. REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.
6. BUT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.
7. WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

DETAIL ADAPTED FROM CITY OF PARKER, COLORADO AND CITY OF AURORA, NOT AVAILABLE IN AUTOCAD.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USDCD STANDARD DETAILS. SEDIMENT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

Rolled Erosion Control Products (RECP) EC-6



SC-1 Silt Fence (SF)

SILT FENCE INSTALLATION NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE; NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. A UNIFORM 6" x 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO TOAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.
3. COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
4. ALL POSTS SHALL BE FULLY TIGHT OR IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO GAPS LARGER THAN BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.
5. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE.
6. AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "J-HOOK". THE "J-HOOK" IS INTENDED TO PREVENT CONCENTRATED FLOW FROM RUNNING ALONG THE SILT FENCE. IT IS KEPT FLOW FROM RUNNING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' – 20').
7. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

SILT FENCE MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE; NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP, TYPICALLY WHEN SEDIMENT IS APPROXIMATELY ½ OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.
5. REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.
6. BUT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.
7. WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

DETAIL ADAPTED FROM CITY OF PARKER, COLORADO AND CITY OF AURORA, NOT AVAILABLE IN AUTOCAD.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USDCD STANDARD DETAILS. SEDIMENT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

MM-2 Stockpile Management (SM)

STOCKPILE PROTECTION MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE; NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

STOCKPILE PROTECTION MAINTENANCE NOTES

4. 4" PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORKDAY.
5. STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE STOCKPILE HAS BEEN USED.

DETAILS ADAPTED FROM PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USDCD STANDARD DETAILS. SEDIMENT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

SM-6 Stabilized Staging Area (SSA)

STABILIZED STAGING AREA MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE; NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. ALL STAGING AREA MATERIALS, INCLUDING BMPs, SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP, TYPICALLY WHEN SEDIMENT IS APPROXIMATELY ½ OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.
5. ROCK SHALL BE REPURPOSED OR DISPOSED AS NECESSARY IF ROUTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USDCD STANDARD DETAILS. SEDIMENT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

SC-2 Sediment Control Log (SCL)

SEDIMENT CONTROL LOG INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION AND LENGTH OF SEDIMENT CONTROL LOGS.
2. SEDIMENT CONTROL LOGS THAT ACT AS A PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO ANY UPGRADIENT EARTH DISTURBING ACTIVITIES.
3. SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR OR COCONUT FIBER MATERIALS ENCLOSED IN NETTING OF ANY BIODEGRADABLE WHICH PREVENTS WILDLIFE AND DOMESTIC WILDLIFE.
4. SEDIMENT CONTROL LOGS MAY BE USED AS SMALL CHECK DAMS IN DITCHES AND SWALES; HOWEVER, THEY SHOULD NOT BE USED IN PERENNIAL STREAMS.
5. IF IT IS RECOMMENDED THAT SEDIMENT CONTROL LOGS BE TRENCHED INTO THE GROUND TO BE EFFECTIVE, TRENCHES SHALL BE EXCAVATED TO A DEPTH OF 3" – 5" FOR LOGS 12" DIAMETER OR GREATER. FOR SMALLER DIAMETER LOGS, TRENCH DEPTH SHALL BE EQUAL TO 1/3 OF THE LOG DIAMETER. LOG DAMAGE LANDSCAPED. A LESSER TRENCHING DEPTH MAY BE ACCEPTABLE WITH MORE ROBUST SEDIMENT CONTROL LOGS THAT ARE A LIGHTLY DO NOT NEED TO BE TRENCHED.
6. THE LOWER 1/3 OF THE SEDIMENT CONTROL LOG SHALL BE BACKFILLED WITH SOIL OR FILLER MEDIA TO PREVENT PIPING OF FLOWS BENEATH THE LOG. SOIL SHALL NOT BE PLACED ON TOP OF THE UPSTREAM SIDE OF THE LOG. WHERE OTHERWISE USING A SHOVEL OR PROPERLY LAWN ROLLER OR BLOWN IN PLACE.
7. FOLLOW MANUFACTURERS' GUIDANCE FOR STAKING. IF MANUFACTURERS' INSTRUCTIONS DO NOT SPECIFY STAKING, STAKES SHALL BE PLACED ON 4' CENTERS AND EMBEDDED A MINIMUM OF 12" INTO THE GROUND. IN THE EVENT THAT SPLITTING OCCURS NEAR THE TOP OF A STAKE, IT SHALL BE REMOVED AND REPLACED. DUE TO INSTALLATION SHALL BE REPLACED. COMPOST LOGS SHOULD BE STAKED 10' ON CENTER.

SEDIMENT CONTROL LOG MAINTENANCE NOTES

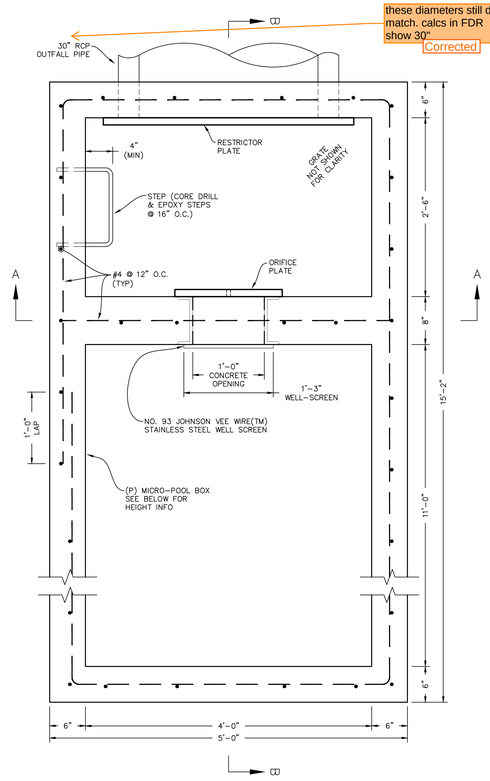
1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE; NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. SEDIMENT ACCUMULATED UPSTREAM OF SEDIMENT CONTROL LOGS SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP, TYPICALLY WHEN SEDIMENT IS APPROXIMATELY ½ OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.
5. SEDIMENT CONTROL LOG SHALL BE REMOVED AT THE END OF CONSTRUCTION. COMPOST FROM COMPOST LOGS MAY BE LEFT IN PLACE AS LONG AS BMPS ARE REMOVED AND THE AREA IS STABILIZED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

DETAILS ADAPTED FROM CITY OF PARKER, COLORADO, JEFFERSON COUNTY, COLORADO, DOUGLAS COUNTY, COLORADO, AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD.

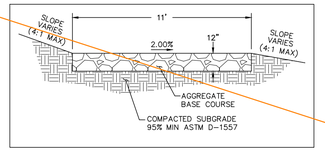
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USDCD STANDARD DETAILS

these diameters still dont match. calcs in FDR show 30"

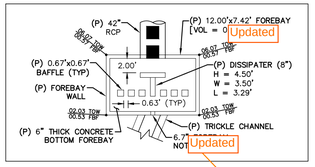
Corrected



POND OUTFALL STRUCTURE - PLAN VIEW
SCALE: N.T.S.

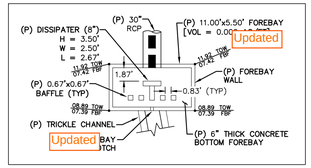


POND MAINTENANCE ACCESS DETAIL
SCALE: N.T.S.

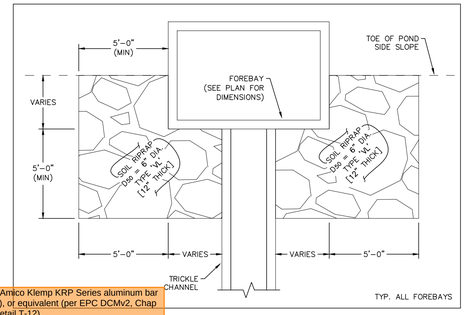


FOREBAY "1-A"
SCALE: N.T.S.

6" in calcs



FOREBAY "1-B"
SCALE: N.T.S.



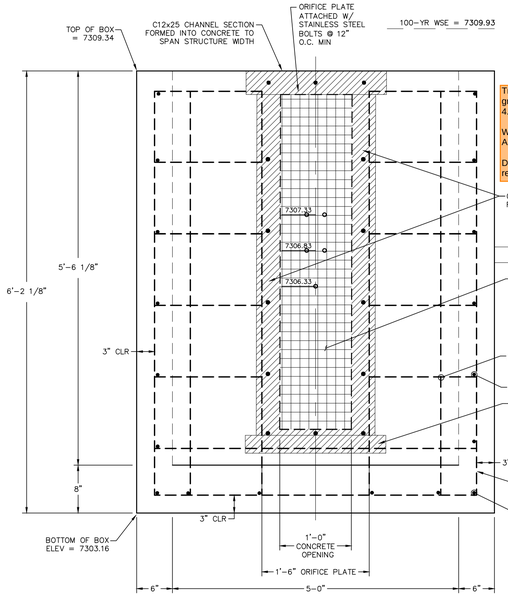
FOREBAY OVERFLOW RIPRAP DETAIL
SCALE: N.T.S.

Trash rack to be Amico Klemp KRP Series aluminum bar grate (Figure 6-b), or equivalent (per EPC DCMv2, Chap 4.3 and MHFD Detail T-12).

We'd also accept Amico 19-SR-2 or 19-SR-4 and the Amico 19-W-2 or 19-W-4

Diamond plate trash racks are not an equivalent replacement to those in our criteria.

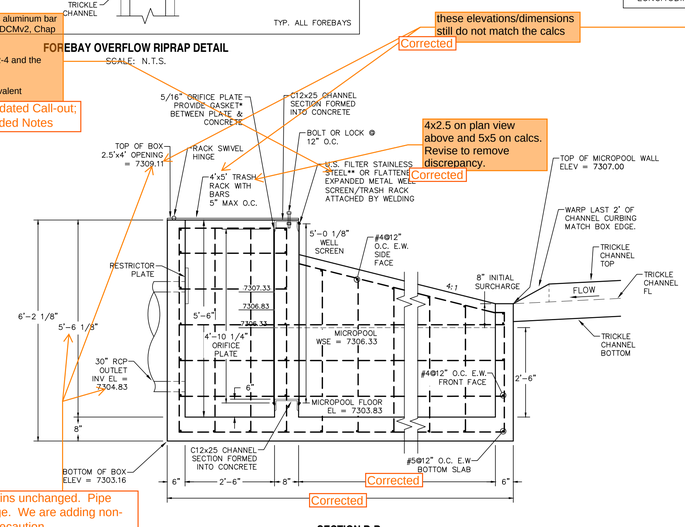
Updated Call-out; Added Notes



SECTION A-A
SCALE: N.T.S.

these elevations/dimensions still do not match the calcs

Corrected



Corrected

SECTION B-B
SCALE: N.T.S.

Our response remains unchanged. Pipe invert cannot change. We are adding non-shrink grout as a precaution.

4x2.5 on plan view above and 5x5 on calcs. Revise to remove discrepancy.

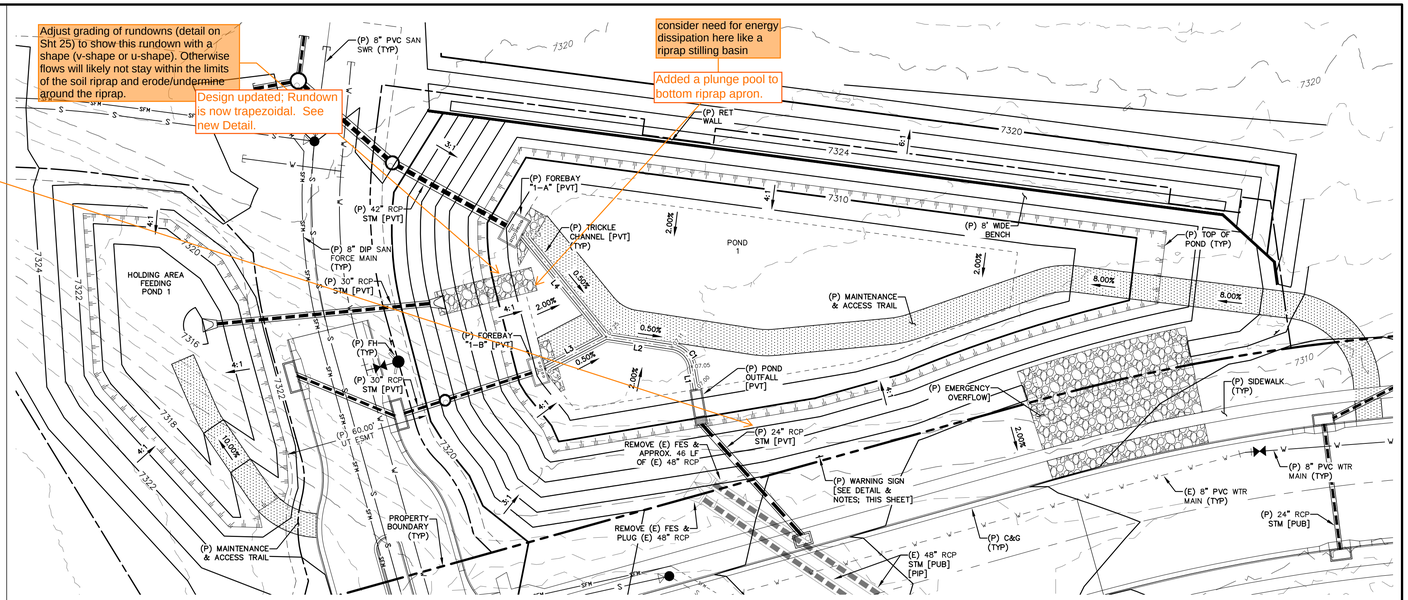
Corrected

Adjust grading of rundowns (detail on Sht 25) to show this rundown with a shape (v-shape or u-shape). Otherwise flows will likely not stay within the limits of the soil riprap and erode/undermine around the riprap.

Design updated; Rundown is now trapezoidal. See new Detail.

consider need for energy dissipation here like a riprap stilling basin

Added a plunge pool to bottom riprap apron.



POND 1 - FULL-SPECTRUM EXTENDED DETENTION BASIN [PVT]
SCALE: 1" = 30'

LINE TABLE – CL		
LINE	BEARING	DISTANCE
L1	S80° 22' 37"W	9.71
L2	S8° 44' 31"W	27.88
L3	S27° 34' 13"E	28.65
L4	S50° 47' 06"W	55.32

CURVE TABLE – CL			
CURVE	DELTA	RADIUS	LENGTH
C1	71°38'06"	10.00	12.50

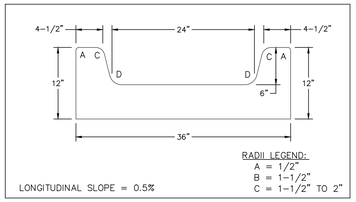
NOTES:

1. EXISTING VEGETATION SHALL REMAIN IN PLACE (IF POSSIBLE) AND SEE FINAL LANDSCAPE PLAN FOR FINAL POND REVEGETATION.
2. SLOPE POND BOTTOM 2.00% FROM TOE TO TRICKLE CHANNEL.

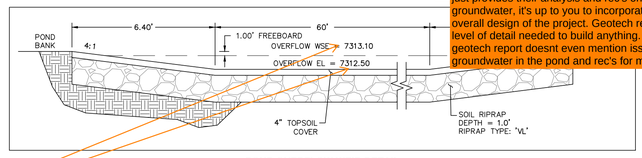
0 30 60
SCALE: 1" = 30'

Added Note to follow guidelines in the Geotech Report.

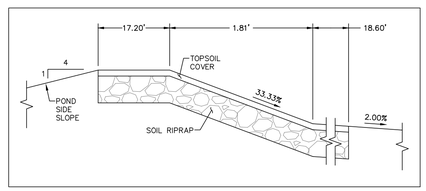
Note 3 was removed about the clay liner. Your FDR comment response states that "groundwater requirements are the responsibility of the Geotech Engr." But these plans must show the subsequent design for mitigation based on the recommendations of the Geotech Engr. The Geotech just provides their analysis and rec's on the soils and groundwater, it's up to you to incorporate their rec's into the overall design of the project. Geotech reports dont have the level of detail needed to build anything. Plus this specific geotech report doesnt even mention issues with groundwater in the pond and rec's for mitigation.



CONCRETE TRICKLE CHANNEL
SCALE: N.T.S.



POND OVERFLOW WEIR DETAIL
SCALE: N.T.S.



POND OVERFLOW WEIR PROFILE
SCALE: N.T.S.

all of the orifice elevations match the centroid listed in the calcs but your labels here are for invert..

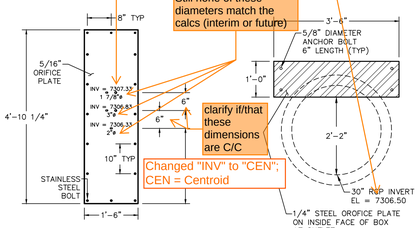
Corrected

Still none of these diameters match the calcs (interim or future)

Corrected

clarify if/that these dimensions are C/C

Changed "INV" to "CEN"; CEN = Centroid



ORIFICE PLATE
SCALE: N.T.S.

Added "Interim" to Label

RESTRICTOR PLATE
SCALE: N.T.S.

specify if this is the interim plate or the future plate for consistent labeling with the FDR

WARNING
THIS AREA IS A STORMWATER FACILITY AND IS SUBJECT TO PERIODIC FLOODING

NOTES:
- SIGN SHALL BE A MINIMUM OF 3 SF.
- SIGN SHALL BE FABRICATED OF DURABLE MATERIALS SUCH AS METAL OR PLASTIC.
- SIGN SHALL HAVE RED LETTERING ON A WHITE BACKGROUND.

WARNING SIGN DETAIL
SCALE: N.T.S.

CDOT GENERAL NOTES:

1. CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
2. REINFORCING BARS SHALL HAVE A MINIMUM 2 IN. CLEARANCE.
3. CONCRETE SLOPE AND DITCH PAVING SHALL CONFORM TO SECTION 507. REINFORCEMENT FOR CONCRETE SLOPE PAVING SHALL BE 6 X 6 – W1.4 X W1.4 OR 6 X 6 – W2.1 X W2.1.
4. STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH 712.06.
5. THE STANDARD INLET GRATES SHALL BE USED ON ALL TYPE C INLETS UNLESS CLOSE MESH GRATES ARE SPECIFIED ON THE PLANS.
6. STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" EXCEEDS 3 FT-6 IN. AND SHALL BE IN ACCORDANCE WITH AASHTO M 199.
7. SEE SHEET M-604-11, INLET, TYPE D, FOR REINFORCEMENT AROUND THE PIPE OPENING.
- ◆ CONCRETE SLOPE AND DITCH PAVING WILL BE REQUIRED WHEN SHOWN ON PLANS.

My previous V3 comment:
based on these dimensions and elevations, there will be 1ft depth of water that does not drain out of the outlet pipe. This is not ideal as it will be a mosquito issue and maintenance issue for removing sediment and debris. Please revise to remove this standing water. One option is to fill the 1ft depth with grout.

PRC Response: This comment seems moot since the micro-pool doesn't drain and will hold a greater amount of water.

EPC V4 Response: Micropools are specifically designed with a min depth of 2.5ft to prevent mosquito larvae from growing in them. And the typical WSEL of micropools will not block flows or reduce capacity of piping. Whereas when an outlet pipe holds water there can be mosquitos, freeze/thaw issues with the pipe that would reduce pipe lifespan, and make inspection/maintenance more difficult. Also when the water freezes in the pipe, the capacity is reduced and sitting water allows sediment and debris to collect in the pipe which is also undesirable. All that to say: there are actually many reasons why having standing water in the outlet pipe is bad.

REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	11/04/25
2	ADDRESS AGENCY COMMENTS	12/31/25
3	ADDRESS AGENCY COMMENTS	04/08/26
4	ADDRESS AGENCY COMMENTS	05/11/26

811 Know what's below. Call before you dig.

PREPARED FOR:
MONUMENT RIDGE EAST, LLC
5055 LIST DRIVE
COLORADO SPRINGS, CO 80919

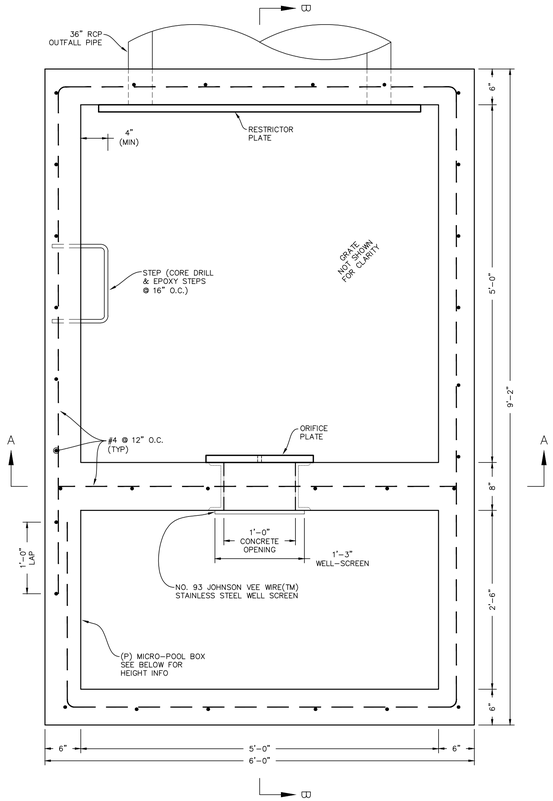
PREPARED BY:
NOT FOR CONSTRUCTION
RAYMOND

PRC ENGINEERING
1685 W. UINTAH STREET, SUITE 114
COLORADO SPRINGS, CO 80904
(719) 291-2744

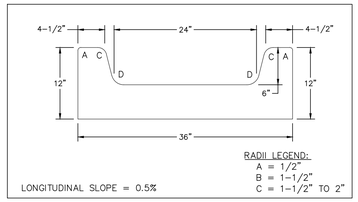
MONUMENT HILL EAST FILING NO. 1
POND DETAIL PLANS - POND 1 - [PVT]

DESIGNED BY:	REP	DRAWN BY:	MGP
SCALE:	VARIES	DATE:	04/08/25
JOB NUMBER		SHEET	
24-001		5 OF 29	

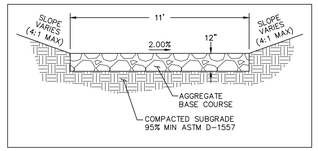
P:\Projects\24-001 MHE\Dwg_CD\PVT\24-001-CDs-09.mcd - Pond 1 - Monday, May 11, 2026 4:51:48 PM - Michael Perry



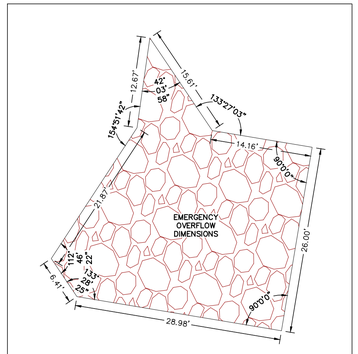
POND OUTFALL STRUCTURE - PLAN VIEW
SCALE: N.T.S.



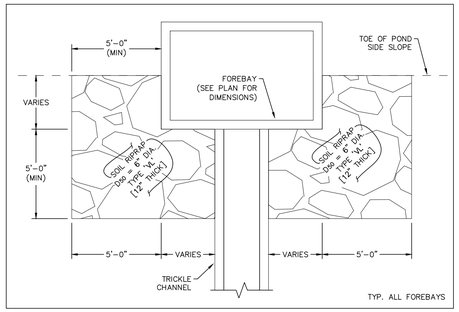
CONCRETE TRICKLE CHANNEL
SCALE: N.T.S.



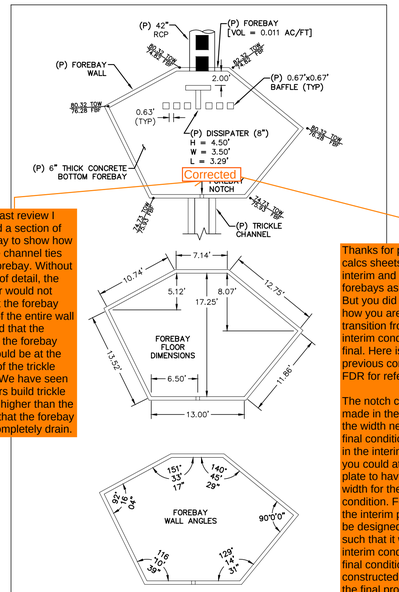
POND MAINTENANCE ACCESS DETAIL
SCALE: N.T.S.



EMERGENCY OVERFLOW DIMENSIONS
SCALE: N.T.S.



FOREBAY OVERFLOW RIPRAP DETAIL
SCALE: N.T.S.



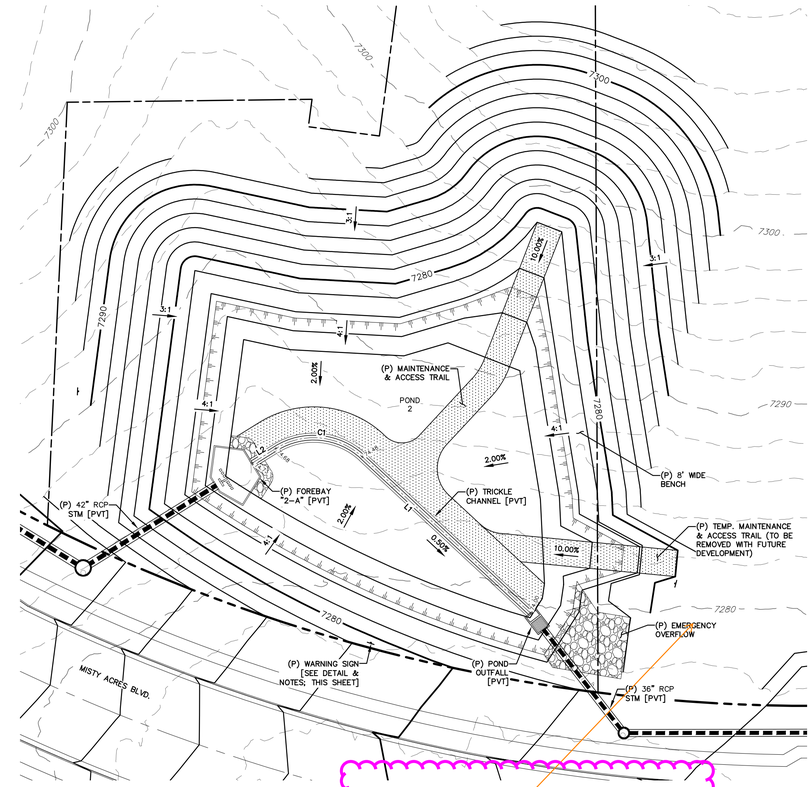
FOREBAY "2-A"
SCALE: N.T.S.

Thanks for providing calcs sheets for both the interim and final forebays as requested. But you did not address how you are going to transition from the interim condition to the final. Here is my previous comment in the FDR for reference:

The notch could be made in the concrete at the width needed for the final condition and then in the interim condition: you could attach a metal plate to have the correct width for the interim condition. For context: the interim pond has to be designed/constructed such that it works in the interim condition as if the final condition is never constructed. Because the final project could be delayed for many years or never happen.

V4 update: the final width is 8.1 and the interim width is 6.1, so it will be messy to have to enlarge the notch to 8.1 if you do 6.1 now. I think it's easier to do the metal plate option, but the final decision is your call.

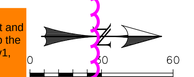
With the last review I requested a section of the forebay to show how the trickle channel ties into the forebay. Without this level of detail, the contractor would not know that the forebay notch is of the entire wall height and that the bottom of the forebay notch should be at the flow line of the trickle channel. We have seen contractors build trickle channels higher than the notch so that the forebay doesnt completely drain.



POND 2 - FULL-SPECTRUM EXTENDED DETENTION BASIN [PVT]
SCALE: 1" = 30'

Unresolved previous comment:
Provide pond maintenance access easement and the road itself from the bottom of the pond up the embankment and to a public road, per DCMv1, Chap 11.2.2.

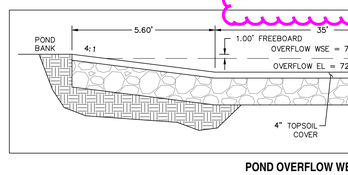
V4 update: I see your comment response that this is a temp access, but we need to treat it like the final condition is never going to be built out and thus go ahead and have stabilized access from the pond to the road. See my comment on Sht 3 above about this.



NOTES:

1. EXISTING VEGETATION SHALL REMAIN IN PLACE (IF POSSIBLE) AND SEE FINAL LANDSCAPE PLAN FOR FINAL POND REVEGETATION.
2. SLOPE POND BOTTOM 2.00% FROM TOE TO TRICKLE CHANNEL.

LINE TABLE – C1		
LINE	BEARING	DISTANCE
L1	S42° 53' 06"W	96.22
L2	S31° 48' 01"E	11.58



WARNING SIGN DETAIL
SCALE: N.T.S.

POND OVERFLOW WEIR DETAIL
SCALE: N.T.S.

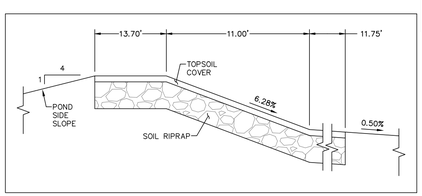
What happened to the soil mixing note that was on the previous submittal? Please add it back in. See screen below for reference:

Added Notes

Corrected

SOIL MIXING NOTE:
PER MHFD SPECIFICATION SECTION 21-37-00, THE SOIL MATERIAL SHALL BE NATIVE OR TOPSOIL AND MIXED WITH 65% RIPRAP AND 35% SOIL BY VOLUME. SOIL RIPRAP SHALL CONSIST OF A UNIFORM MIXTURE OF SOIL AND RIPRAP WITHOUT VOIDS.

31-37-00

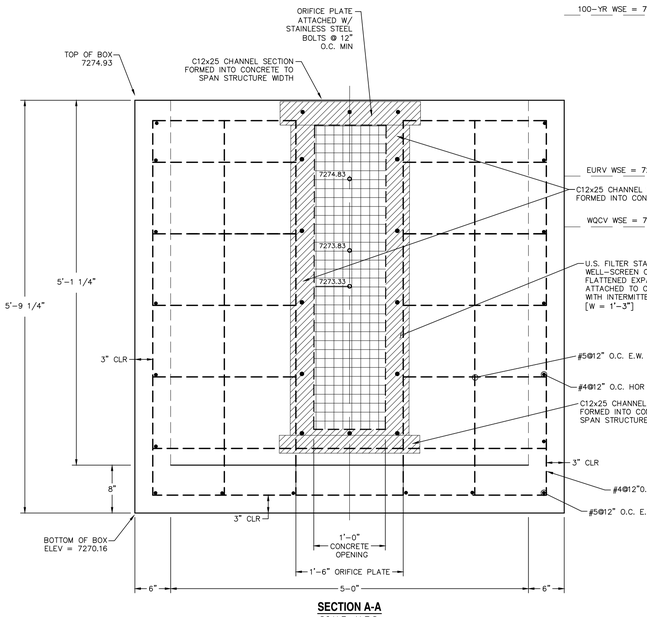


POND OVERFLOW WEIR PROFILE
SCALE: N.T.S.

CDOT GENE

1. CONCRETE CAST-IN-P
2. REINFORCIN CLEARANCE.
3. CONCRETE SLOPE AND DITCH PAVING SHALL CONFORM TO SECTION 507. REINFORCEMENT FOR CONCRETE SLOPE PAVING SHALL BE 6 X 6 – W1.4 X W1.4 OR 6 X 6 – W2.1 X W2.1.
4. STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH 712.06.
5. THE STANDARD INLET GRATES SHALL BE USED ON ALL TYPE C INLETS UNLESS CLOSE MESH GRATES ARE SPECIFIED ON THE PLANS.
6. STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" EXCEEDS 3 FT-6 IN. AND SHALL BE IN ACCORDANCE WITH AASHTO M 199.
7. SEE SHEET M-604-11, INLET, TYPE D, FOR REINFORCEMENT AROUND THE PIPE OPENING.

♦ CONCRETE SLOPE AND DITCH PAVING WILL BE REQUIRED WHEN SHOWN ON PLANS.



SECTION A-A
SCALE: N.T.S.

Trash rack to be Amico Klemp KRP Series aluminum bar grate (Figure 6-b), or equivalent (per EPC DCMv2, Chap 4.3 and MHFD Detail T-12).

We'd also accept Amico 19-SR-2 or 19-SR-4 and the Amico 19-W-2 or 19-W-4

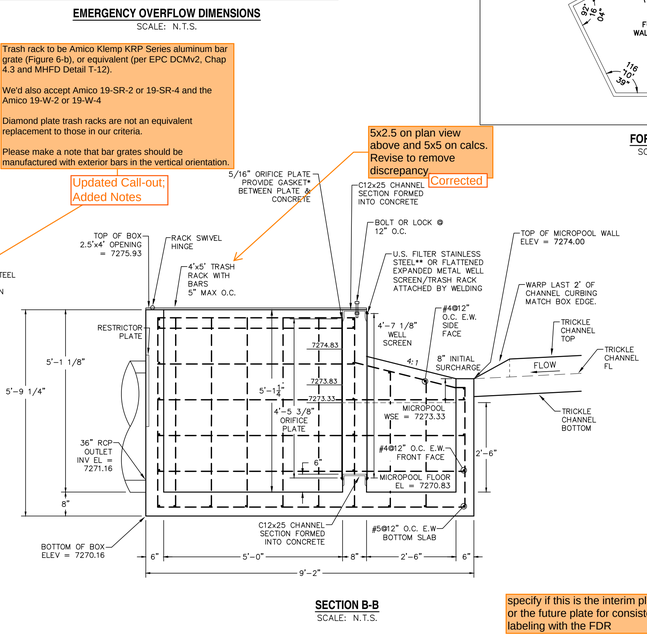
Diamond plate trash racks are not an equivalent replacement to those in our criteria.

Please make a note that bar grates should be manufactured with exterior bars in the vertical orientation.

Updated Call-out; Added Notes

5x2.5 on plan view above and 5x5 on calcs. Revise to remove discrepancy.

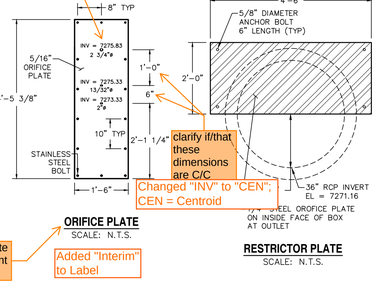
Corrected



SECTION B-B
SCALE: N.T.S.

all of the orifice elevations match the centroid listed in the calcs but your labels here are for invert..

Corrected



Changed "INV" to "CEN"; CEN = Centroid

ORIFICE PLATE
SCALE: N.T.S.

RESTRICTOR PLATE
SCALE: N.T.S.

specify if this is the interim plate or the future plate for consistent labeling with the FDR

Added "Interim" to Label

REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	11/04/25
2	ADDRESS AGENCY COMMENTS	12/31/25
3	ADDRESS AGENCY COMMENTS	04/08/26
4	ADDRESS AGENCY COMMENTS	05/11/26

811 Know what's below. Call 72 hours before you dig.
For more details visit: www.call811.com

* THE GASKET SHALL BE MADE OF 1/4-INCH THICK, 60 DUROMETER EPDM RUBBER IN A CONTINUOUS SHEET THE SIZE OF THE ORIFICE PLATE. THE SHEET SHALL BE PLACED BETWEEN THE ORIFICE PLATE AND THE CONCRETE WALL, WITH THE WIDTH OF THE OVERLAP BETWEEN THE PLATE AND THE CONCRETE. OPENINGS SHALL BE CUT INTO THE SHEET CORRESPONDING TO THE PLATE BOLT HOLES AND THE CONCRETE WALL OPENING. CUTS MADE EITHER BY THE CONTRACTOR IN THE FIELD OR BY THE MANUFACTURER (OR EQUIVALENT GASKET APPROVED BY EL PASO COUNTY). NOTE THAT CAULK IS NOT AN APPROVED EQUIVALENT AND WILL NOT BE ACCEPTED BY EL PASO COUNTY.

** JOHNSON VEE WIRE TYPE AND BAR GRATES SHOULD BE MANUFACTURED WITH EXTERIOR BARS IN THE VERTICAL ORIENTATION.

PREPARED FOR:
MONUMENT RIDGE EAST, LLC
5055 LIST DRIVE
COLORADO SPRINGS, CO 80919

PREPARE
RAYMO

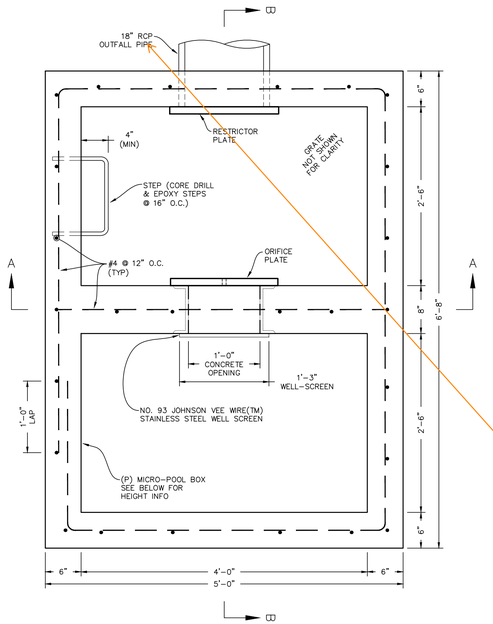
NOT FOR CONSTRUCTION

PRC ENGINEERING
1685 W. UINTAH STREET, SUITE 114
COLORADO SPRINGS, CO 80904
(719) 291-2744

MONUMENT HILL EAST FILING NO. 1
POND DETAIL PLANS - POND 2 - [PVT]

DESIGNED BY:	REP	DRAWN BY:	MGP
SCALE:	VARIES	DATE:	04/08/25
JOB NUMBER		SHEET	
24-001		6 OF 29	

J:\Projects\24-001 MHE\Civil_CDs\Pln\24-001-CDs-06.dwg - Pond 2 - Working, May 11, 2026, 4:53:23 PM - Michael Pitts

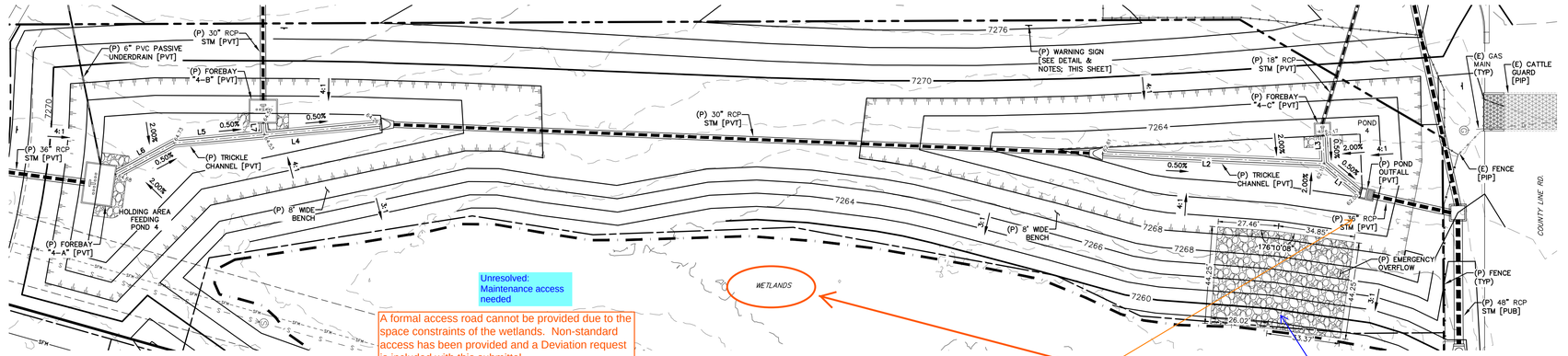


POND OUTFALL STRUCTURE - PLAN VIEW
SCALE: N.T.S.

LINE TABLE – CL		
LINE	BEARING	DISTANCE
L1	S39° 32' 09"W	20.87
L2	S2° 31' 12"W	100.98
L3	S87° 13' 13"W	12.62
L4	S5° 15' 30"E	53.10
L5	S5° 15' 30"E	41.26
L6	S28° 21' 06"E	30.19
L7	S84° 44' 30"W	5.23

NOTES:

1. EXISTING VEGETATION SHALL REMAIN IN PLACE (IF POSSIBLE) AND SEE FINAL LANDSCAPE PLAN FOR FINAL POND REVEGETATION.
2. SLOPE POND BOTTOM 2.00% FROM TOE TO TRICKLE CHANNEL.



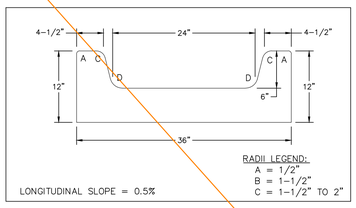
POND 4 - FULL-SPECTRUM EXTENDED DETENTION BASIN [PVT]
SCALE: 1" = 30'

Unresolved: Maintenance access needed

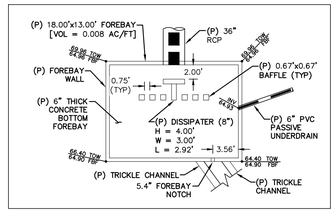
A formal access road cannot be provided due to the space constraints of the wetlands. Non-standard access has been provided and a Deviation request is included with this submittal

Unresolved: Expand viewport to show where overflows from spillway go - Swale, inlet, [illegible]

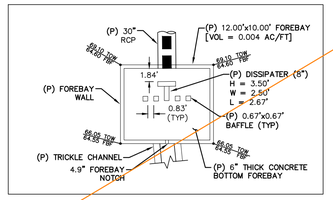
This drains to the Existing Wetlands. Viewport has been superfluously expanded to show additional Wetlands. The Overflow Soil Riprap ends as shown in order to not disturb the Wetlands.



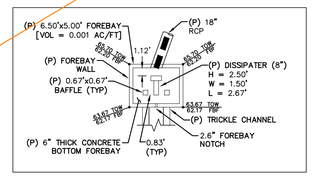
CONCRETE TRICKLE CHANNEL
SCALE: N.T.S.



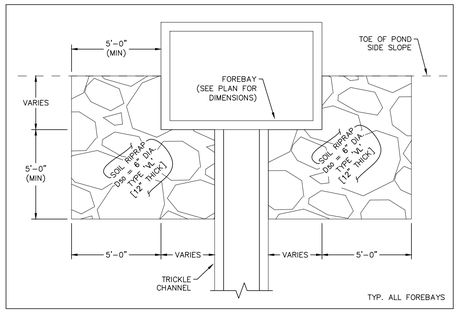
FOREBAY "4-A"
SCALE: N.T.S.



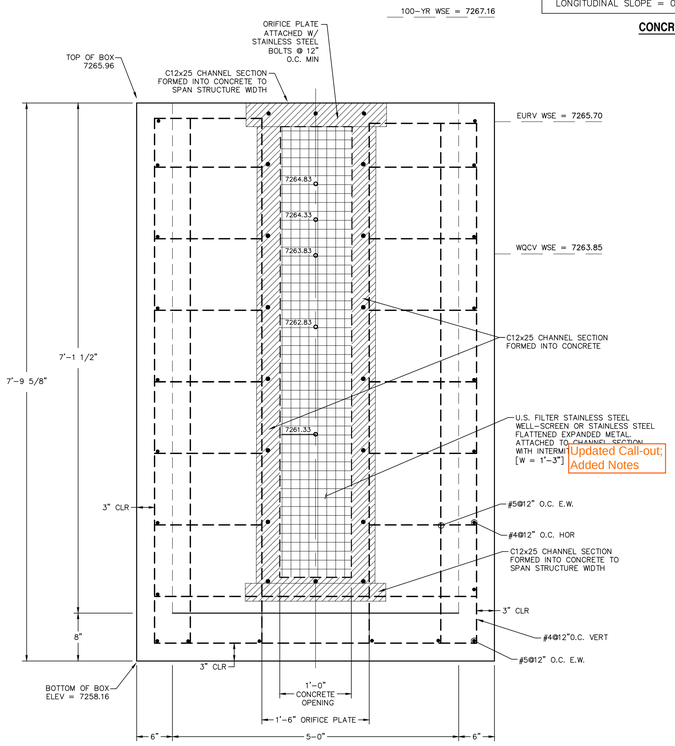
FOREBAY "4B"
SCALE: N.T.S.



FOREBAY "4-C"
SCALE: N.T.S.



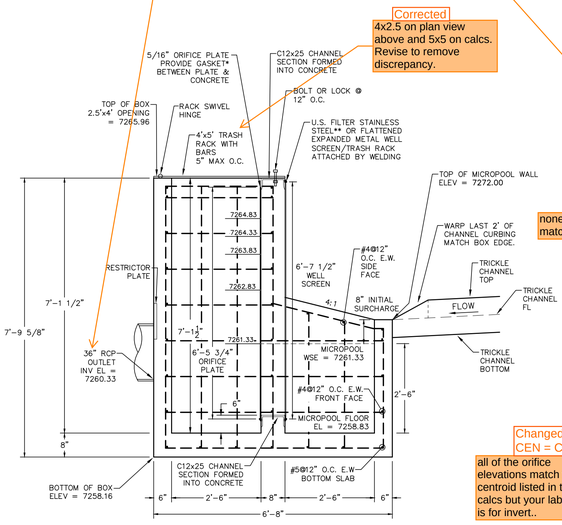
FOREBAY OVERFLOW RIPRAP DETAIL
SCALE: N.T.S.



SECTION A-A
SCALE: N.T.S.

the outlet pipe is called out as 3 different diameters on this sheet...

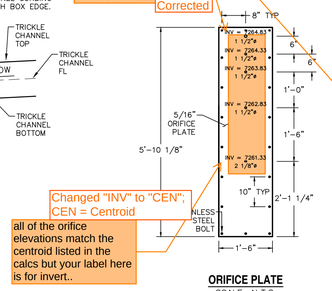
Corrected



SECTION B-B
SCALE: N.T.S.

none of these diameters match calcs

Corrected



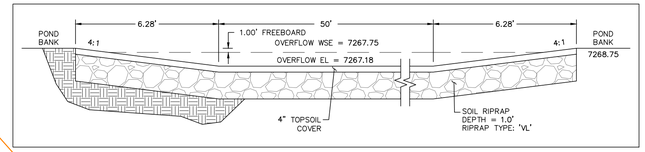
Changed "INV" to "CEN"; CEN = Centroid

all of the orifice elevations match the centroid listed in the calcs but your label here is for invert..

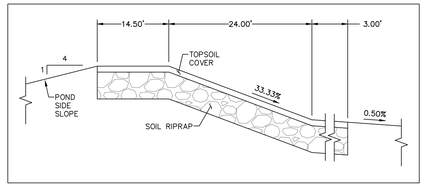
ORIFICE PLATE
SCALE: N.T.S.

RESTRICTOR PLATE
SCALE: N.T.S.

Added "Interim" to Label



POND OVERFLOW WEIR DETAIL
SCALE: N.T.S.



POND OVERFLOW WEIR PROFILE
SCALE: N.T.S.



WARNING SIGN DETAIL
SCALE: N.T.S.

CDOT GENERAL NOTES:

1. CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
2. REINFORCING BARS SHALL HAVE A MINIMUM 2 IN. CLEARANCE.
3. CONCRETE SLOPE AND DITCH PAVING SHALL CONFORM TO SECTION 507. REINFORCEMENT FOR CONCRETE SLOPE PAVING SHALL BE 6 X 6 – W1.4 X W1.4 OR 6 X 6 – W2.1 X W2.1.
4. STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH 712.06.
5. THE STANDARD INLET GRATES SHALL BE USED ON ALL TYPE C INLETS UNLESS CLOSE MESH GRATES ARE SPECIFIED ON THE PLANS.
6. STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" EXCEEDS 3 FT.–6 IN. AND SHALL BE IN ACCORDANCE WITH AASHTO M 199.
7. SEE SHEET M-604-11, INLET, TYPE D, FOR REINFORCEMENT AROUND THE PIPE OPENING.

♦ CONCRETE SLOPE AND DITCH PAVING WILL BE REQUIRED WHEN SHOWN ON PLANS.

REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	11/04/25
2	ADDRESS AGENCY COMMENTS	12/31/25
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811 Know what's below. Call 72 hours before you dig.
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PREPARED FOR:
MONUMENT RIDGE EAST, LLC
5055 LIST DRIVE
COLORADO SPRINGS, CO 80919

PREPARED BY:
RAYMO

NOT FOR CONSTRUCTION

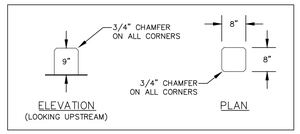
PRC ENGINEERING
1685 W. UINTAH STREET, SUITE 114
COLORADO SPRINGS, CO 80904
(719) 291-2744

MONUMENT HILL EAST FILING NO. 1
POND DETAIL PLANS - POND 4 - [PVT]

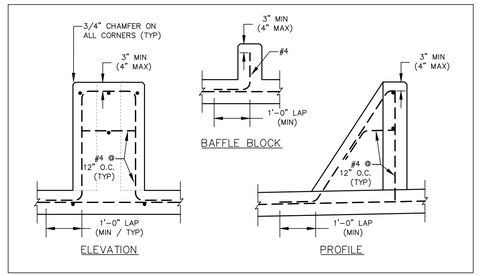
DESIGNED BY:	REP	DRAWN BY:	MGP
SCALE:	VARIES	DATE:	04/08/25
JOB NUMBER		SHEET	
24-001		7 OF 29	

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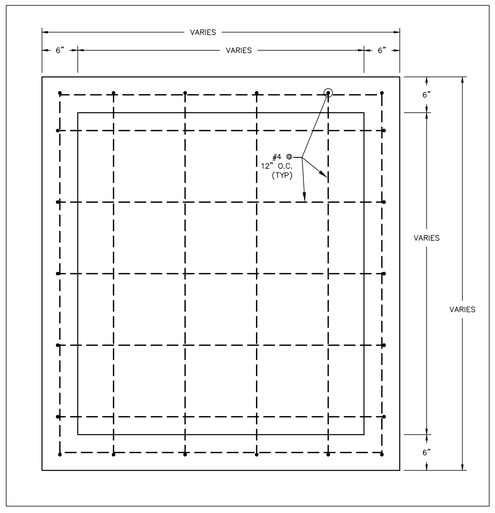
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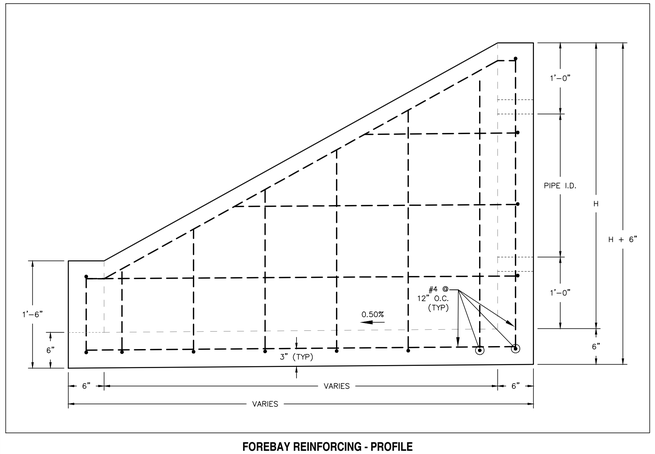
BAFFLE BLOCK GEOMETRY
SCALE: N.T.S.



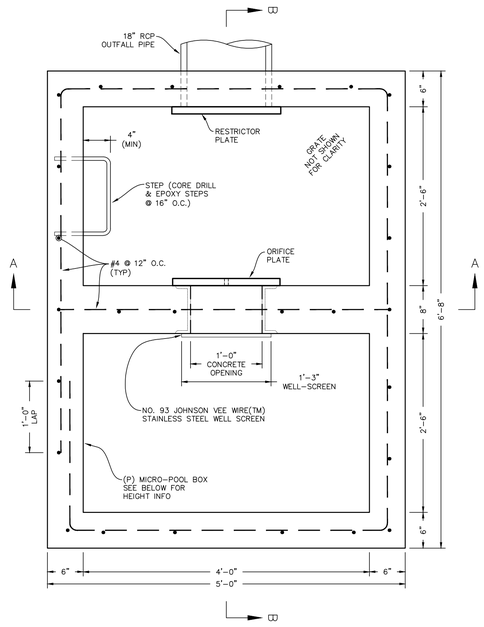
DISSIPATOR & BAFFLE BLOCK REINFORCING DETAILS
SCALE: N.T.S.



TYPICAL FOREBAY REINFORCING - PLAN
SCALE: N.T.S.



FOREBAY REINFORCING - PROFILE
SCALE: N.T.S.

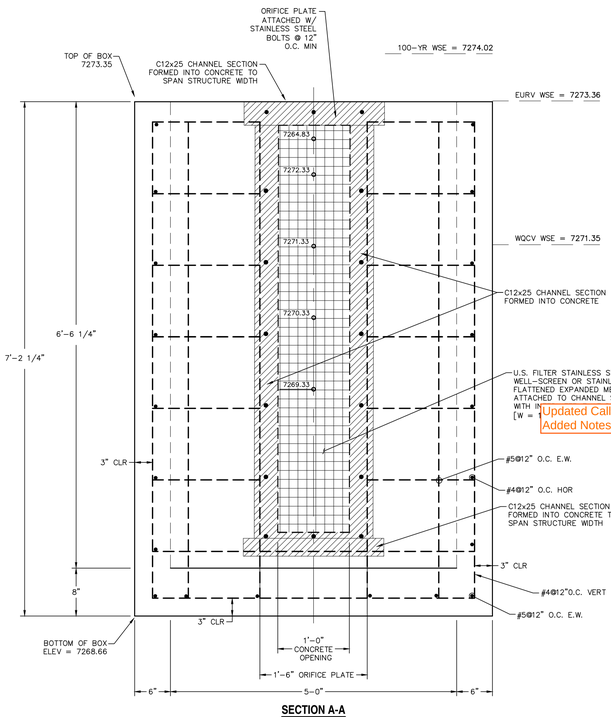


POND OUTFALL STRUCTURE - PLAN VIEW
SCALE: N.T.S.

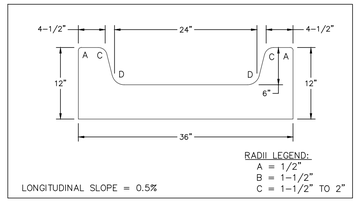
Please QC the details for this pond compared to the calcs in the FDR like I did for the other 3 ponds. There were many discrepancies with the other pond details vs calcs.

Corrected

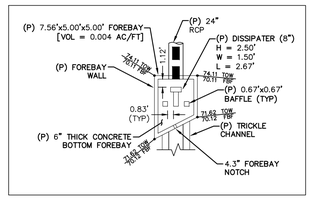
And apply my typical comments from the other 3 ponds to this sheet as well.



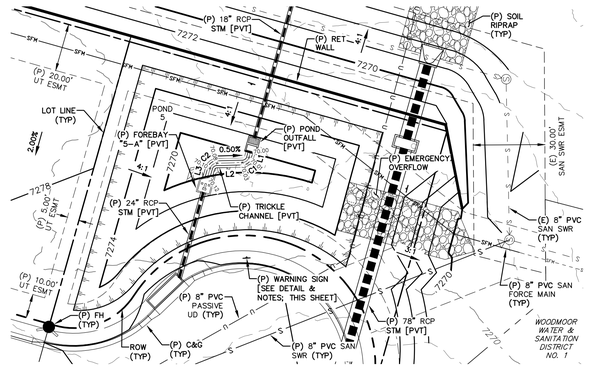
SECTION A-A
SCALE: N.T.S.



CONCRETE TRICKLE CHANNEL
SCALE: N.T.S.



FOREBAY "5-A"
SCALE: N.T.S.



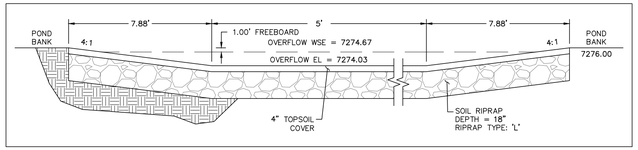
LINE TABLE – CL		
LINE	BEARING	DISTANCE
L1	S74° 13' 43"E	2.17
L2	S1° 26' 08"E	10.71
L3	S74° 13' 43"E	3.57

CURVE TABLE – CL			
CURVE	DELTA	RADIUS	LENGTH
C1	72°47'36"	3.00	3.81
C2	72°47'36"	3.00	3.81

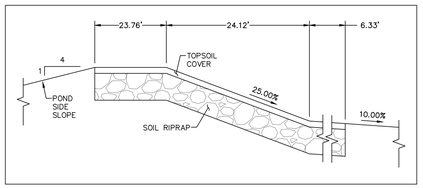
POND 5 - FULL-SPECTRUM EXTENDED DETENTION BASIN [PVT]
SCALE: 1" = 30'

NOTES:
1. EXISTING VEGETATION SHALL REMAIN IN PLACE (IF POSSIBLE) AND SEE FINAL LANDSCAPE PLAN FOR FINAL POND REVEGETATION.
2. SLOPE POND BOTTOM 2.00% FROM TOE TO TRICKLE CHANNEL.

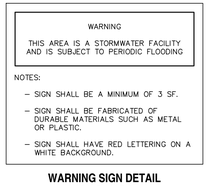
0 30 60
SCALE: 1" = 30'



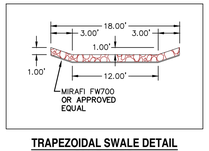
POND OVERFLOW WEIR DETAIL
SCALE: N.T.S.



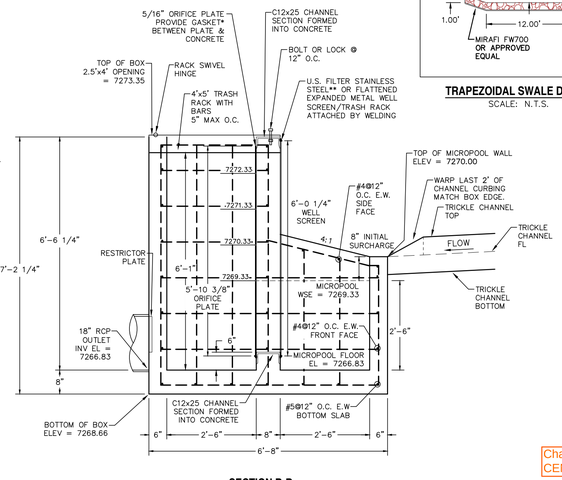
POND OVERFLOW WEIR PROFILE
SCALE: N.T.S.



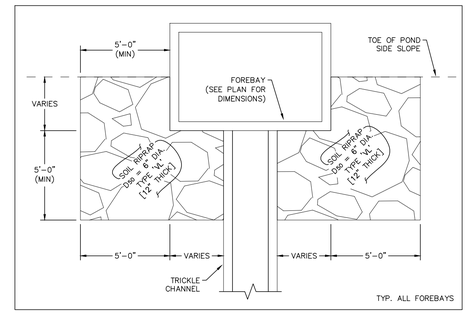
WARNING SIGN DETAIL
SCALE: N.T.S.



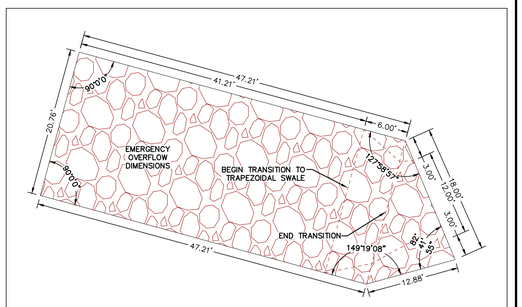
TRAPEZOIDAL SWALE DETAIL
SCALE: N.T.S.



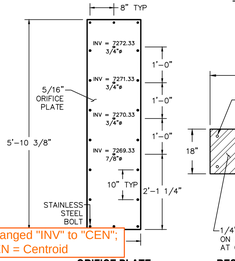
SECTION B-B
SCALE: N.T.S.



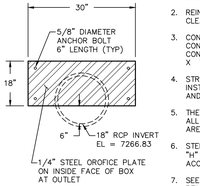
FOREBAY OVERFLOW RIPRAP DETAIL
SCALE: N.T.S.



EMERGENCY OVERFLOW DIMENSIONS
SCALE: N.T.S.



ORIFICE PLATE
SCALE: N.T.S.



RESTRICTOR PLATE
SCALE: N.T.S.

CDOT GENERAL NOTES:
1. CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
2. REINFORCING BARS SHALL HAVE A MINIMUM 2 IN. CLEARANCE.
3. CONCRETE SLOPE AND DITCH PAVING SHALL CONFORM TO SECTION 507. REINFORCEMENT FOR CONCRETE SLOPE PAVING SHALL BE 6 X 6 – W1.4 X W1.4 OR 6 X 6 – W2.1 X W2.1.
4. STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH 712.06.
5. THE STANDARD INLET GRATES SHALL BE USED ON ALL TYPE C INLETS UNLESS CLOSE MESH GRATES ARE SPECIFIED ON THE PLANS.
6. STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" EXCEEDS 3 FT–6 IN. AND SHALL BE IN ACCORDANCE WITH AASHTO M 199.
7. SEE SHEET M–604–11, INLET, TYPE D, FOR REINFORCEMENT AROUND THE PIPE OPENING.

• CONCRETE SLOPE AND DITCH PAVING WILL BE REQUIRED WHEN SHOWN ON PLANS.

REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	11/04/25
2	ADDRESS AGENCY COMMENTS	12/31/25
3	ADDRESS AGENCY COMMENTS	04/08/26
4	ADDRESS AGENCY COMMENTS	05/11/26

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For more details visit: www.call811.com

* THE GASKET SHALL BE MADE OF 1/4–INCH THICK, 60 DUROMETER EPDM RUBBER IN A CONTINUOUS SHEET THE SIZE OF THE ORIFICE PLATE. THE SHEET SHALL BE PLACED BETWEEN THE ORIFICE PLATE AND THE CONCRETE WALL, WITH THE WIDTH OF THE OVERLAP BETWEEN THE PLATE AND THE CONCRETE. OPENINGS SHALL BE CUT INTO THE SHEET CORRESPONDING TO THE PLATE BOLT HOLES AND THE CONCRETE WALL OPENING. CUTS MADE EITHER BY THE CONTRACTOR IN THE FIELD OR BY THE MANUFACTURER (OR EQUIVALENT GASKET APPROVED BY EL PASO COUNTY). NOTE THAT CAULK IS NOT AN APPROVED EQUIVALENT AND WILL NOT BE ACCEPTED BY EL PASO COUNTY.

** JOHNSON VEE WIRE TYPE AND BAR GRATES SHOULD BE MANUFACTURED WITH EXTERIOR BARS IN THE VERTICAL ORIENTATION.

PREPARED FOR:
MONUMENT RIDGE EAST, LLC
5055 LIST DRIVE
COLORADO SPRINGS, CO 80919

PREPARED BY:
RAYMOND A. PRC, PE
NOT FOR CONSTRUCTION

PRC ENGINEERING
1685 W. UINTAH STREET, SUITE 114
COLORADO SPRINGS, CO 80904
(719) 291-2744

MONUMENT HILL EAST FILING NO. 1
POND DETAIL PLANS - POND 5 - [PVT]

Added "Interim & Final" to Label

DESIGNED BY:	REP	DRAWN BY:	MGP
SCALE:	VARIES	DATE:	04/08/25
JOB NUMBER		SHEET	
24–001		8 OF 29	

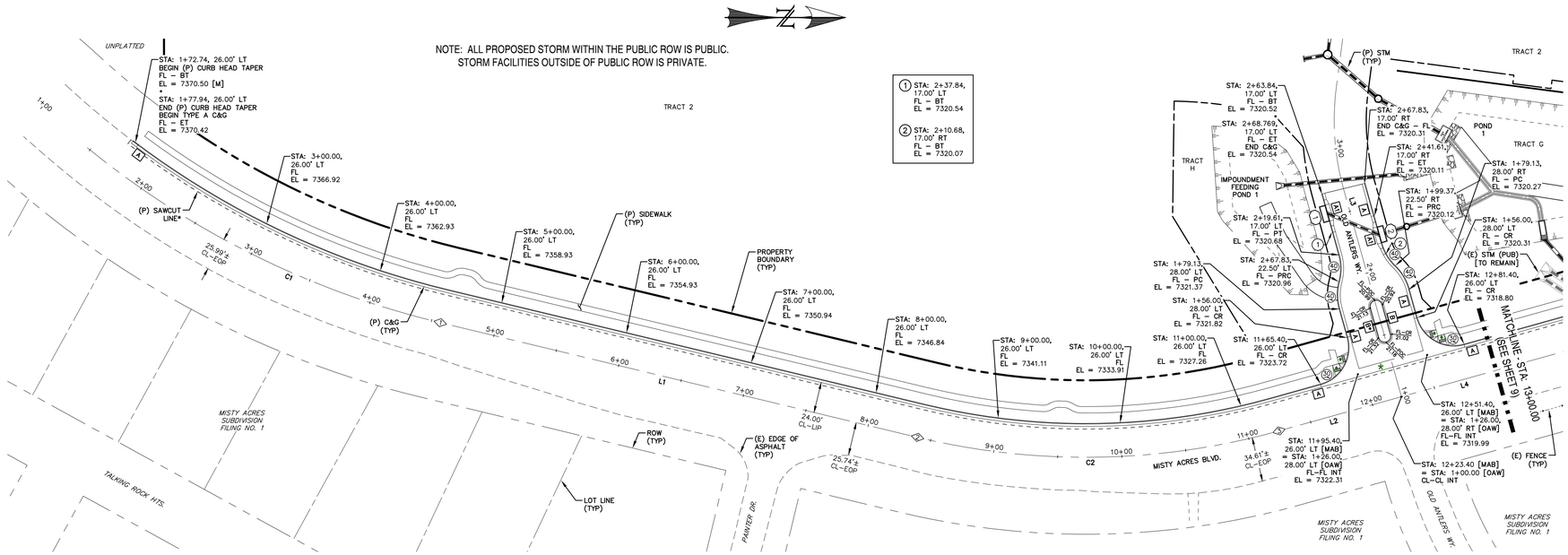
J:\Projects\24-001 MTN'VIEW_CD\PVT\24-001_DTL-08.dgn 4/8/2026 4:34:57 PM by MGP

* SAWCUT & PAVEMENT NOTES:

1. EXISTING PAVEMENT MAY BE ROUGH CUT INITIALLY.
2. A SQUARE VERTICAL CUT SHALL BE MADE IN THE EXISTING A.C. PAVEMENT AFTER PLACEMENT OF BACKFILL PRIOR TO PAVEMENT REPLACEMENT.
3. THICKNESS OF NEW A.C. PAVEMENT AND BASE COURSE REPLACEMENT SHALL BE:
   4" A.C. WITH 12" BASE,
   OR
   8" A.C. FULL DEPTH,
   OR
   MATCH EXISTING,
   OR
   PER GEOTECHNICAL ENGINEERS RECOMMENDATION, WHICHEVER IS GREATER.

LINE TABLE – CL		
LINE	BEARING	DISTANCE
L1	N13° 30' 52"E	382.56
L2	N15° 34' 31"W	99.01
L3	S74° 25' 29"W	167.83
L4	N15° 34' 31"W	276.60

CURVE TABLE – CL			
CURVE	DELTA	RADIUS	LENGTH
C1	23°34'50"	690.71	284.27
C2	29°05'22"	561.00	284.82



MISTY ACRES BOULEVARD
(120' ROW)
STA: 1+00 ~ 13+00
NON–RESIDENTIAL COLLECTOR (MODIFIED)
30 MPH

OLD ANTLERS ROAD
(50' ROW)
STA: 1+00 ~ 2+70
URBAN LOCAL
25 MPH

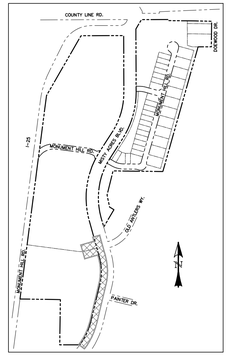
0 50 100
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

INLET NUMBER: 1
TOP OF BOX: 7321.18
THROAT: 7320.18
SUMP
12'
STA: 2+53.34 17.00' LT
2+42.84 17.00' LT 7320.52
2+63.84 17.00' LT 7320.52
CURB FACE
STATION LOCATION
LIP

INLET DATA
SCALE: N.T.S.

INLET NUMBER: 2
TOP OF BOX: 7320.73
THROAT: 7319.73
SUMP
12'
STA: 2+26.11 17.00' RT
2+36.61 17.00' RT 7320.09
2+15.62 17.00' RT 7320.06
CURB FACE
STATION LOCATION
LIP

INLET DATA
SCALE: N.T.S.

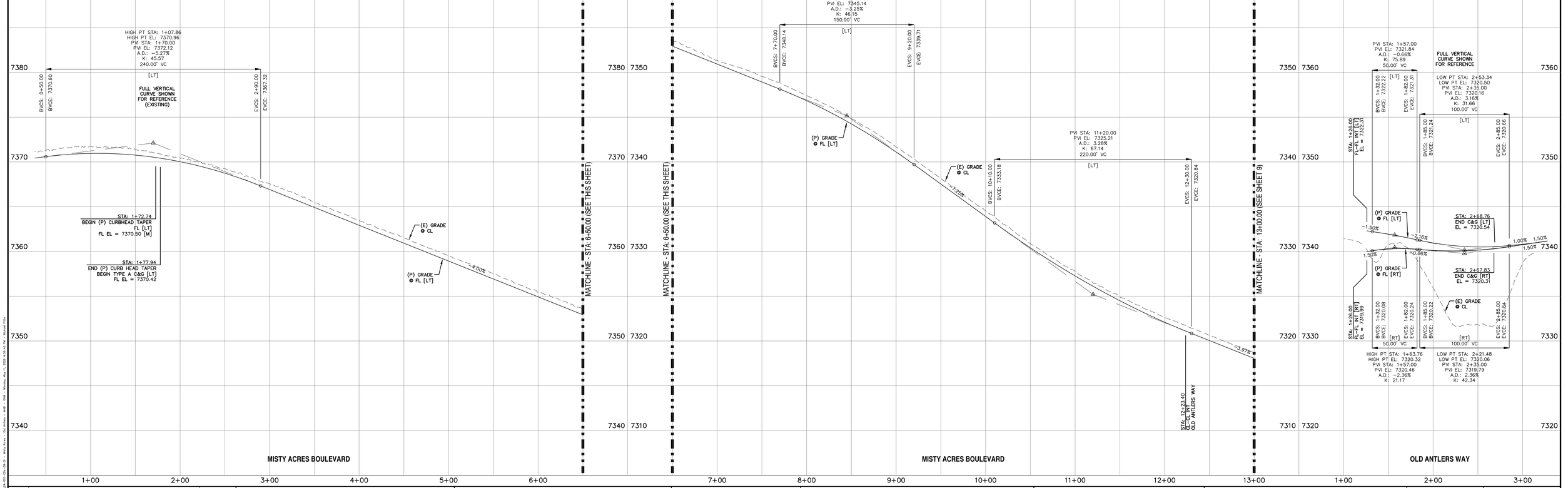


LOCATION MAP
SCALE: N.T.S.

POINT TABLE - CL

NUMBER	STATION	TYPE
1	4+57.01	PT
2	8+39.57	PC
3	11+24.39	PT

♦ INTERSECTION PED. RAMP (REF: SD_2–41)
★ CROSSPAN (REF: SD_2–26)
[A] CURB TYPE CALL–OUT
(30) CURB RETURN RADIUS



REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	11/04/25
2	ADDRESS AGENCY COMMENTS	12/31/25
3	ADDRESS AGENCY COMMENTS	04/08/26
4	ADDRESS AGENCY COMMENTS	05/11/26

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STREET NAME ABBREVIATIONS:
MISTY ACRES BOULEVARD = MAB
MONUMENT HILL ROAD [EAST] = MHE
MONUMENT HILL ROAD [WEST] = MHW
SNOWY TOP DRIVE = STD
COUNTY LINE ROAD (SECTION LINE) [CENTER LINE BASED ON THE NORTH LINE OF THE SW 1/4 OF SECTION 2, T11S, R67W] = CLR

PREPARED FOR:
MONUMENT RIDGE EAST, LLC
5055 LIST DRIVE
COLORADO SPRINGS, CO 80919

PREPARED BY:
NOT FOR CONSTRUCTION
RAYMOND

PRC ENGINEERING
1685 W. UINTAH STREET, SUITE 114
COLORADO SPRINGS, CO 80904
(719) 291–2744

MONUMENT HILL EAST FILING NO. 1
STREET IMPROVEMENT PLAN & PROFILE

DESIGNED BY:	MGP	DRAWN BY:	MGP
SCALE:	1" = 50'	DATE:	04/08/25
JOB NUMBER		SHEET	
24–001		9 OF 29	

P:\Projects\24-001 MRE\Civil\24-001-Cov-09.dgn - Misty Acres - Sig Across - MAB - GM - Monday, May 11, 2026 4:04:43 PM - Samuel Petty

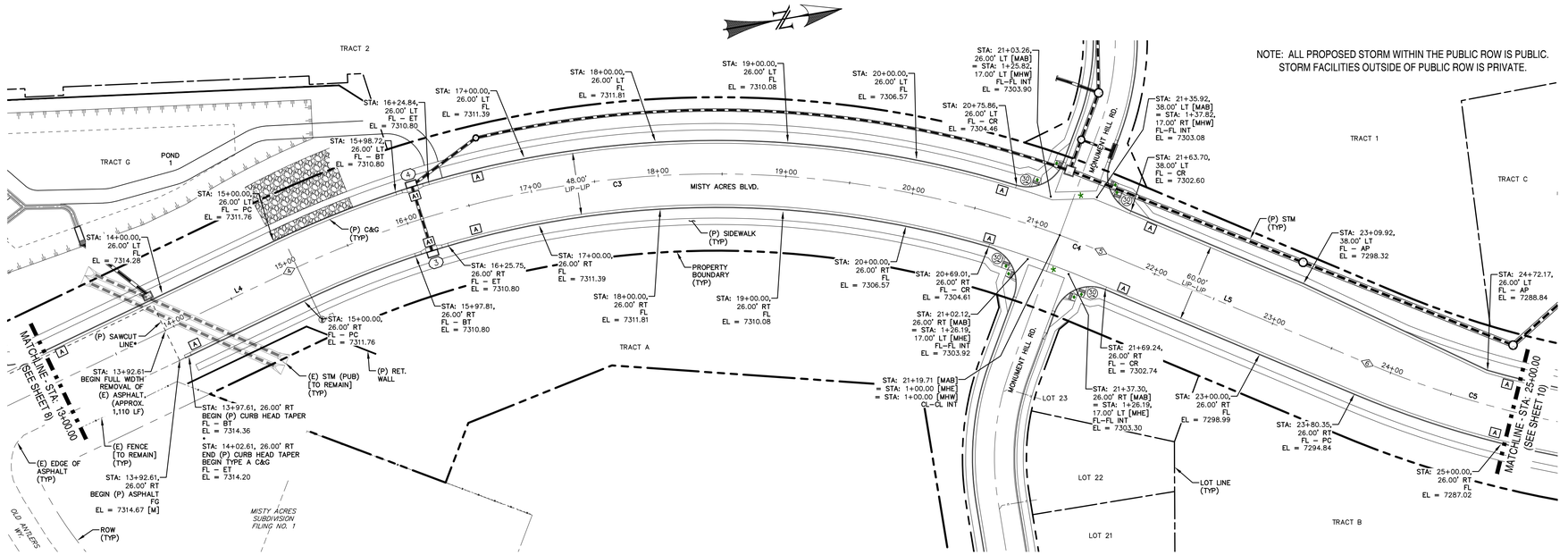
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   OR
   8" A.C. FULL DEPTH,
   OR
   MATCH EXISTING,
   OR
   PER GEOTECHNICAL ENGINEERS RECOMMENDATION, WHICHEVER IS GREATER.

LINE TABLE – CL		
LINE	BEARING	DISTANCE
L4	N15° 34' 31"W	276.60
L5	N32° 47' 55"E	226.03

CURVE TABLE – CL			
CURVE	DELTA	RADIUS	LENGTH
C3	45°48'55"	775.00	619.71
C4	2°33'30"	775.00	34.60
C5	33°01'33"	775.00	446.72



NOTE: ALL PROPOSED STORM WITHIN THE PUBLIC ROW IS PUBLIC. STORM FACILITIES OUTSIDE OF PUBLIC ROW IS PRIVATE.

MISTY ACRES BOULEVARD
(120' ROW)
STA: 13+00 ~ 25+00
NON–RESIDENTIAL COLLECTOR (MODIFIED)
30 MPH

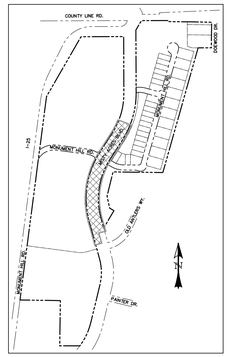
0 50 100
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

INLET NUMBER: 3
TOP OF BOX: 7311.46
THROAT: 7310.46
SUMP
STA: 16+11.78
16.00' RT
16+20.58 16.00' RT 7310.79
16+02.99 16.00' RT 7310.79
CURB FACE
STATION LOCATION
LIP

INLET DATA
SCALE: N.T.S.

INLET NUMBER: 4
TOP OF BOX: 7311.46
THROAT: 7310.46
SUMP
STA: 16+11.78
26.00' LT
16+03.56 26.00' LT 7310.79
16+20.00 26.00' LT 7310.79
CURB FACE
STATION LOCATION
LIP

INLET DATA
SCALE: N.T.S.



LOCATION MAP
SCALE: N.T.S.

POINT TABLE - CL

NUMBER	STATION	TYPE
4	15+00.00	PC
5	21+54.32	PT
6	23+80.35	PC

♦ INTERSECTION PED. RAMP (REF: SD_2–41)
★ CROSSPAN (REF: SD_2–26)
[A] CURB TYPE CALL–OUT
(30) CURB RETURN RADIUS

LOW PT STA: 16+11.78
LOW PT EL: 7310.79
PVI STA: 15+35.00
PVI EL: 7309.25
A.D.: 4.99%
K: 64.17
320.00' VC
[LT & RT]
BVCS: 13+75.00 BVCE: 7315.16
EVCS: 16+95.00 EVCE: 7311.33

HIGH PT STA: 17+69.93
HIGH PT EL: 7311.91
PVI STA: 18+30.00
PVI EL: 7313.08
A.D.: –5.19%
K: 46.21
240.00' VC
[LT & RT]
BVCS: 17+10.00 BVCE: 7311.52
EVCS: 19+50.00 EVCE: 7308.40

PVI STA: 20+35.00
PVI EL: 7305.09
A.D.: 2.15%
K: 69.87
150.00' VC
[LT & RT]
BVCS: 19+60.00 BVCE: 7308.01
EVCS: 21+10.00 EVCE: 7303.78

PVI STA: 22+95.00
PVI EL: 7300.54
A.D.: –4.85%
K: 45.34
220.00' VC
[LT & RT]
BVCS: 21+85.00 BVCE: 7302.46
EVCS: 24+05.00 EVCE: 7293.28

BVCS: 24+85.00 BVCE: 7288.00

–3.69%
–1.30%
–3.90%
–1.75%
–1.75%
–6.69%
(E) GRADE ⊕ CL
(P) GRADE ⊕ FL [LT & RT]
STA: 21+19.71 CL–CL INT MONUMENT HILL ROAD (EAST & WEST)
MATCHLINE - STA: 13+00.00 (SEE SHEET 4)
MATCHLINE - STA: 21+50.00 (SEE THIS SHEET)
MATCHLINE - STA: 21+50.00 (SEE THIS SHEET)
MATCHLINE - STA: 25+00.00 (SEE SHEET 6)

7330 7320 7310 7300 7290
7330 7320 7310 7300 7290 7280
13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00 25+00

REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	11/04/25
2	ADDRESS AGENCY COMMENTS	12/31/25
3	ADDRESS AGENCY COMMENTS	04/08/26
4	ADDRESS AGENCY COMMENTS	05/11/26

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MONUMENT HILL ROAD [WEST]	= MHW
SNOWY TOP DRIVE	= STD
COUNTY LINE ROAD (SECTION LINE)	= CLR

[CENTER LINE BASED ON THE NORTH LINE OF THE SW 1/4 OF SECTION 2, T11S, R67W]

PREPARED FOR:
MONUMENT RIDGE EAST, LLC
5055 LIST DRIVE
COLORADO SPRINGS, CO 80919

PREPARED BY:
RAYMOND GARCIA, PE

NOT FOR CONSTRUCTION

PRC ENGINEERING
1685 W. UINTAH STREET, SUITE 114
COLORADO SPRINGS, CO 80904
(719) 291–2744

MONUMENT HILL EAST FILING NO. 1
STREET IMPROVEMENT PLAN & PROFILE

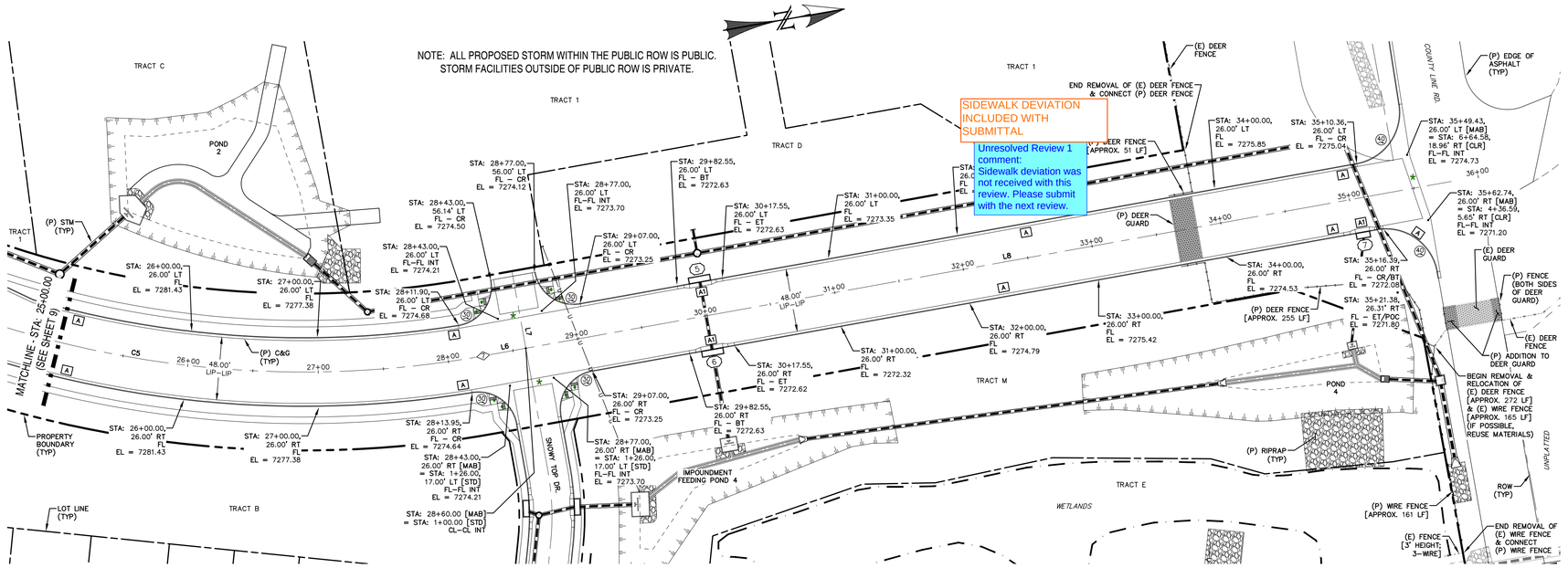
DESIGNED BY: MGP	DRAWN BY: MGP
SCALE: 1" = 50'	DATE: 04/08/25
JOB NUMBER: 24–001	SHEET: 10 OF 29

J:\Projects\24-001 MHE\Civil_CDs\PH\24-001 CDs-10.dwg - Misty Acres - MAB - Tuesday, May 12, 2026 4:43:43 PM - Michael Pitts

NOTE: ALL PROPOSED STORM WITHIN THE PUBLIC ROW IS PUBLIC.
STORM FACILITIES OUTSIDE OF PUBLIC ROW IS PRIVATE.

SIDEWALK DEVIATION INCLUDED WITH SUBMITTAL

Unresolved Review 1 comment:
Sidewalk deviation was not received with this review. Please submit with the next review.



MISTY ACRES BOULEVARD
(120' ROW)
STA: 25+00 ~ 35+80
NON–RESIDENTIAL COLLECTOR (MODIFIED)
30 MPH

0 50 100
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

LINE TABLE – CL		
LINE	BEARING	DISTANCE
L6	N0° 13' 38"W	32.94
L7	S89° 46' 22"W	56.07
L8	N0° 13' 38"W	719.19

CURVE TABLE – CL			
CURVE	DELTA	RADIUS	LENGTH
C5	33°01'33"	775.00	446.72

INLET NUMBER: 5
TOP OF BOX: 7273.28
THROAT: 7272.28
SUMP
16'
STA: 30+00.05
26.00' LT
29+87.55, 26.00' LT, [7272.61]
30+12.55, 26.00' LT, [7272.61]
CURB FACE
STATION LOCATION
LIP

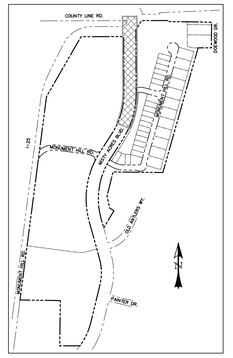
INLET DATA
SCALE: N.T.S.

INLET NUMBER: 6
TOP OF BOX: 7273.28
THROAT: 7272.28
SUMP
16'
STA: 30+00.05
26.00' RT
30+12.55, 26.00' RT, [7272.61]
29+87.55, 26.00' RT, [7272.61]
CURB FACE
STATION LOCATION
LIP

INLET DATA
SCALE: N.T.S.

INLET NUMBER: 7
TOP OF BOX: 7272.69 7272.93
THROAT: 7271.69 7271.93
AT GRADE
10'
STA: 35+05.61
26.00' RT
35+15.01, 26.00' RT, [7272.11]
34+96.11, 26.00' RT, [7272.52]
CURB FACE
STATION LOCATION
LIP

INLET DATA
SCALE: N.T.S.

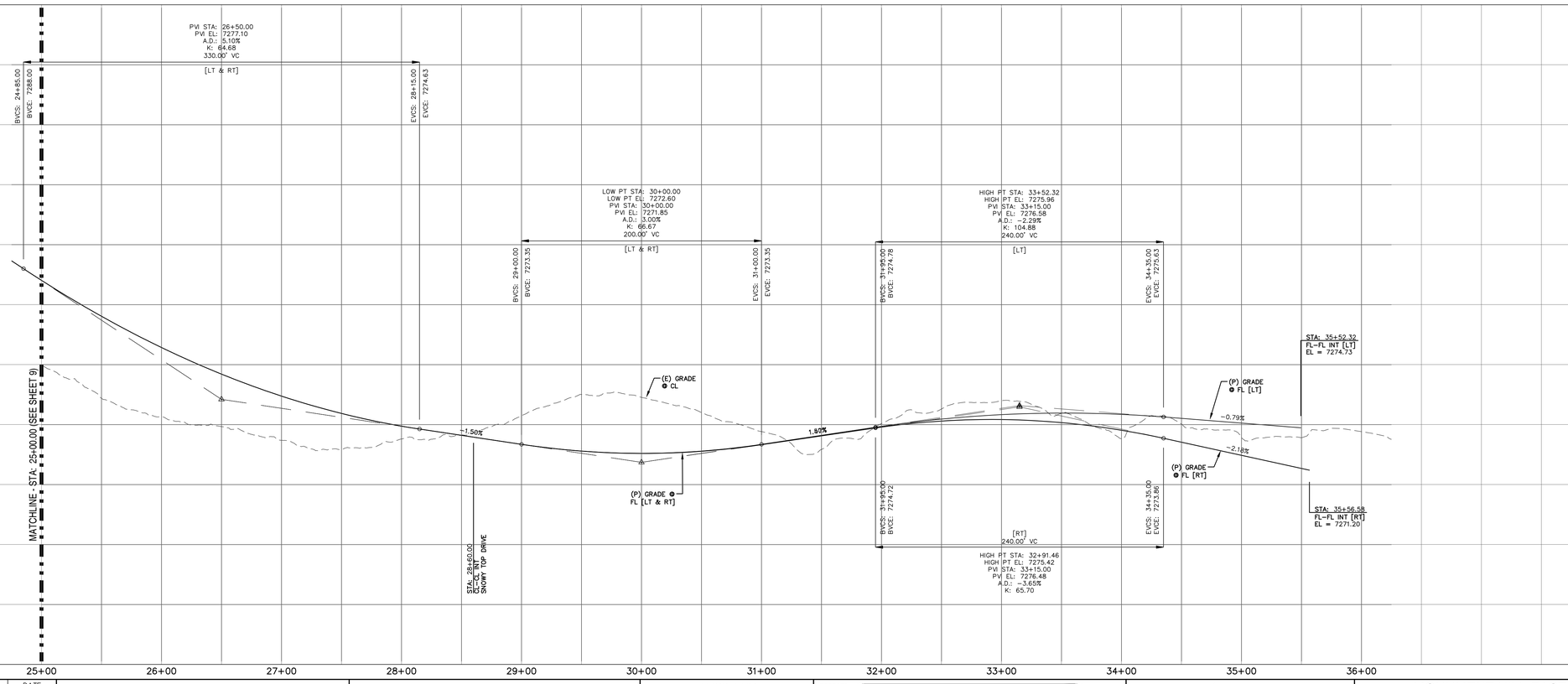


LOCATION MAP
SCALE: N.T.S.

POINT TABLE - CL

NUMBER	STATION	TYPE
7	28+27.06	PT

♦ INTERSECTION PED. RAMP (REF: SD_2-41)
★ CROSSPAN (REF: SD_2-26)
A CURB TYPE CALL-OUT
30 CURB RETURN RADIUS



REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	11/04/25
2	ADDRESS AGENCY COMMENTS	12/31/25
3	ADDRESS AGENCY COMMENTS	04/08/26
4	ADDRESS AGENCY COMMENTS	05/11/26

811 Know what's below. Call 72 hours before you dig.
For more details visit: www.call811.com

STREET NAME ABBREVIATIONS:

MISTY ACRES BOULEVARD	= MAB
MONUMENT HILL ROAD [EAST]	= MHE
MONUMENT HILL ROAD [WEST]	= MHW
SNOWY TOP DRIVE	= STD
COUNTY LINE ROAD (SECTION LINE)	= CLR

[CENTER LINE BASED ON THE NORTH LINE OF THE SW 1/4 OF SECTION 2, T11S, R67W]

PREPARED FOR:
MONUMENT RIDGE EAST, LLC
5055 LIST DRIVE
COLORADO SPRINGS, CO 80919

PREPARED BY:
RAYMOND GREEN

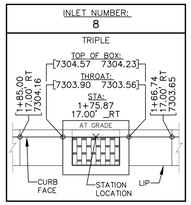
NOT FOR CONSTRUCTION

PRC ENGINEERING
1685 W. UINTAH STREET, SUITE 114
COLORADO SPRINGS, CO 80904
(719) 291-2744

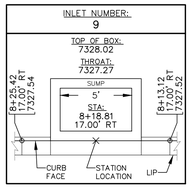
MONUMENT HILL EAST FILING NO. 1
STREET IMPROVEMENT PLAN & PROFILE

DESIGNED BY: MGP	DRAWN BY: MGP
SCALE: 1" = 50'	DATE: 04/08/25
JOB NUMBER: 24–001	SHEET: 11 OF 29

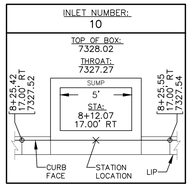
J:\Projects\24-001 MHE\Civil_CDs\PLS\24-001 Cover.mxd - Wed, May 13, 2026 4:08:41 PM - Ashleigh Philp



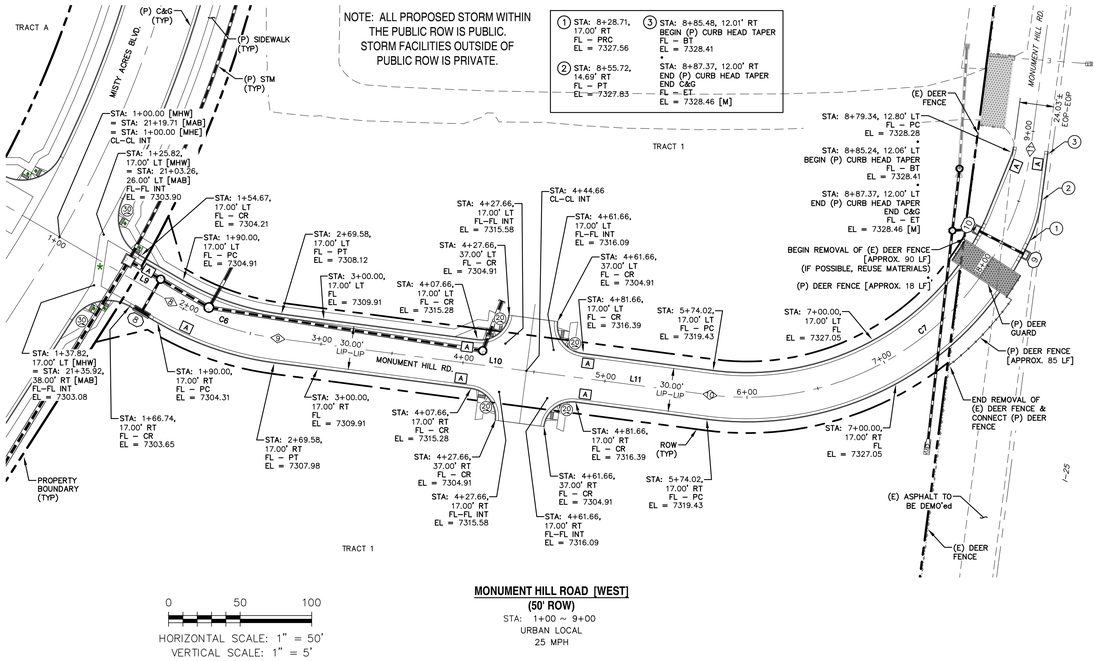
INLET DATA
SCALE: N.T.S.



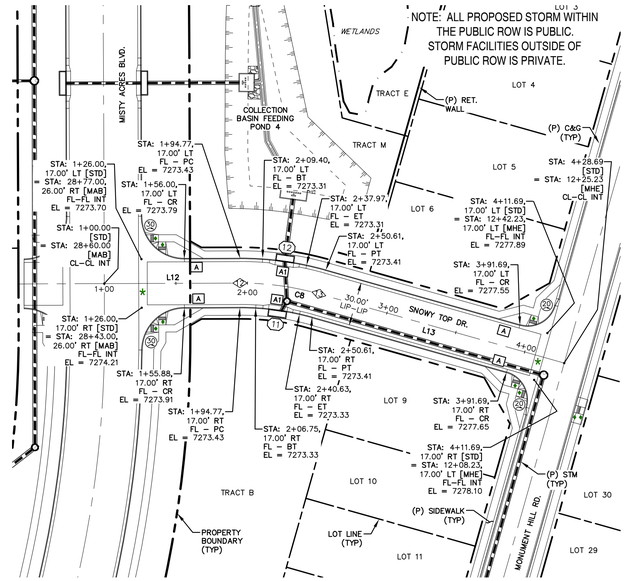
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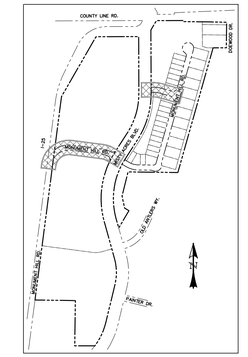
INLET DATA
SCALE: N.T.S.



MONUMENT HILL ROAD [WEST]
(50' ROW)
STA: 1+00 ~ 9+00
URBAN LOCAL
25 MPH



SNOWY TOP DRIVE
(50' ROW)
STA: 1+00 ~ 4+30
URBAN LOCAL
25 MPH

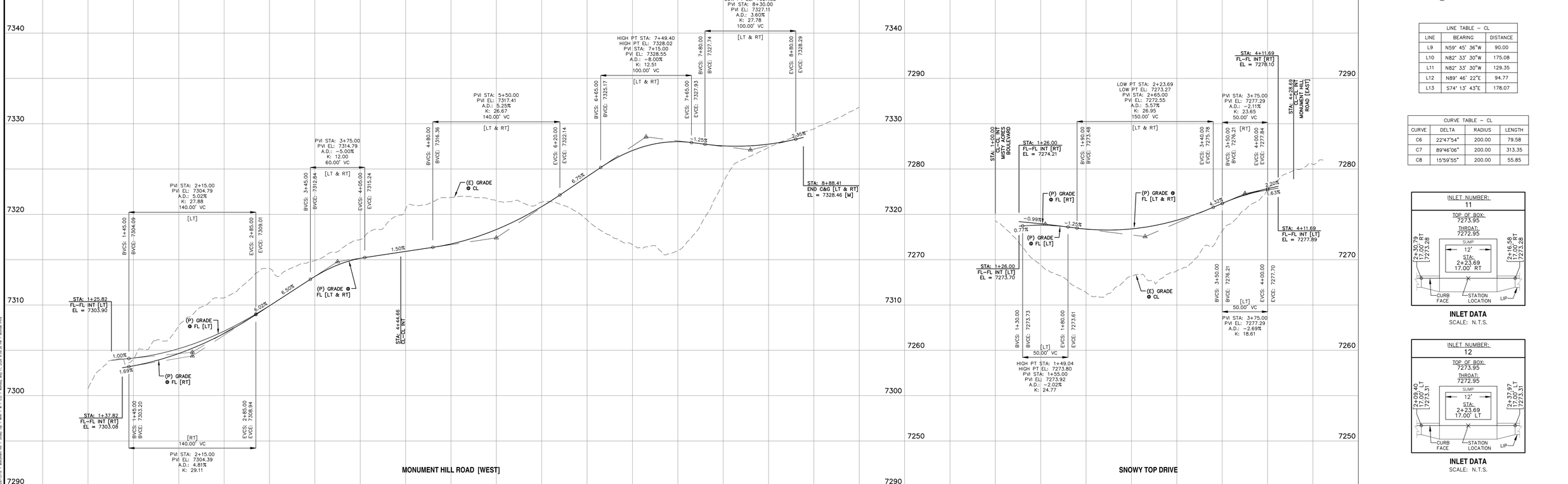


LOCATION MAP
SCALE: N.T.S.

POINT TABLE – CL

NUMBER	STATION	TYPE
8	1+90.00	PC
9	2+69.58	PT
10	5+74.02	PC
11	8+87.37	PT
12	1+94.77	PC
13	2+50.61	PT

- ♦ INTERSECTION PED. RAMP (REF: SD_2–41)
- ♦♦ PARALLEL PED. RAMP (REF: SD_2–50)
- * CROSSPAN (REF: SD_2–26)
- A CURB TYPE CALL–OUT
- 30 CURB RETURN RADIUS



LINE TABLE – CL

LINE	BEARING	DISTANCE
L9	N59° 45' 36"W	90.00
L10	N82° 33' 30"W	175.08
L11	N82° 33' 30"W	129.35
L12	N89° 46' 22"E	94.77
L13	S74° 13' 43"E	178.07

CURVE TABLE – CL

CURVE	DELTA	RADIUS	LENGTH
C6	22°47'54"	200.00	79.58
C7	89°46'06"	200.00	313.35
C8	15°59'55"	200.00	55.85

INLET DATA
SCALE: N.T.S.

INLET DATA
SCALE: N.T.S.

REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	11/04/25
2	ADDRESS AGENCY COMMENTS	12/31/25
3	ADDRESS AGENCY COMMENTS	04/08/26
4	ADDRESS AGENCY COMMENTS	05/11/26

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STREET NAME ABBREVIATIONS:

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MONUMENT HILL ROAD [EAST]	= MHE
MONUMENT HILL ROAD [WEST]	= MHW
SNOWY TOP DRIVE	= STD
COUNTY LINE ROAD (SECTION LINE) [THE NORTH LINE OF THE SW 1/4 OF SECTION 2, T11S, R67W]	= CLR

PREPARED FOR:
MONUMENT RIDGE EAST, LLC
5055 LIST DRIVE
COLORADO SPRINGS, CO 80919

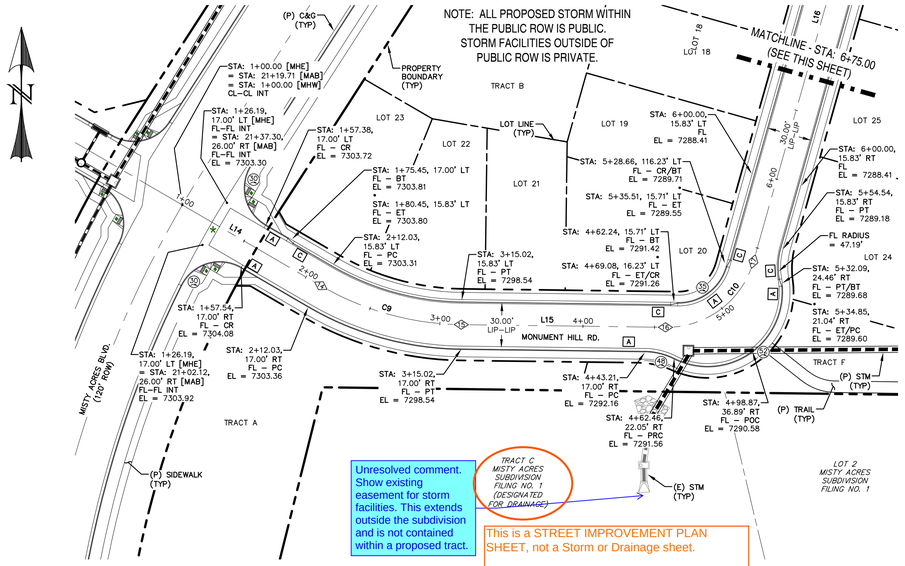
PREPARED BY:
RAYMOND G. PRC
NOT FOR CONSTRUCTION

PRC ENGINEERING
1680 W. UINTAH STREET, SUITE 114
COLORADO SPRINGS, CO 80904
(719) 291–2744

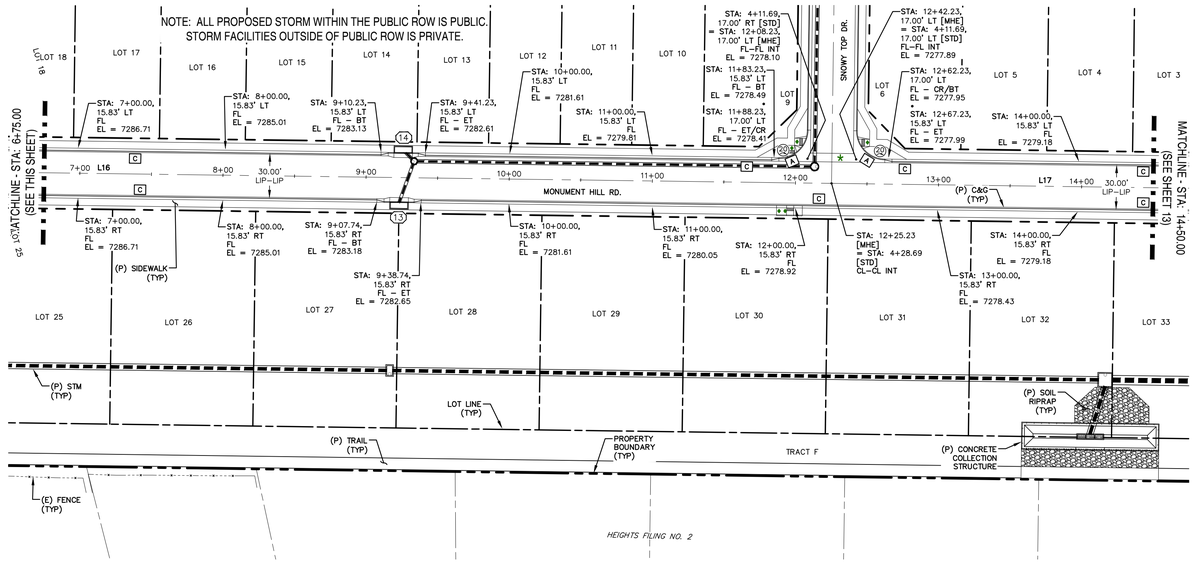
MONUMENT HILL EAST FILING NO. 1
STREET IMPROVEMENT PLAN & PROFILE

DESIGNED BY:	MGP
DRAWN BY:	MGP
SCALE:	1" = XX'
DATE:	04/08/25
JOB NUMBER	24–001
SHEET	12 OF 29

D:\Projects\24-001 MHE\Dwg_CD\PLAN\24-001-ISSU-12-5 = Monument Hill - Snowy Top - Split = 4 - STD - Monday, May 11, 2026 3:59:28 PM - Michael Pitts

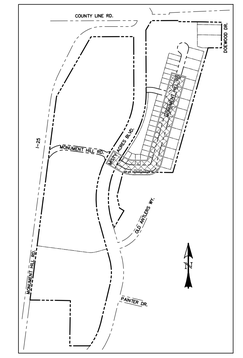


MONUMENT HIL
(50'
STA: 1+C
URBAN
25



MONUMENT HILL ROAD [EAST]
(50' ROW)
STA: 6+75 ~ 14+50
URBAN LOCAL
25 MPH

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



LOCATION MAP
SCALE: N.T.S.

POINT TABLE - CL

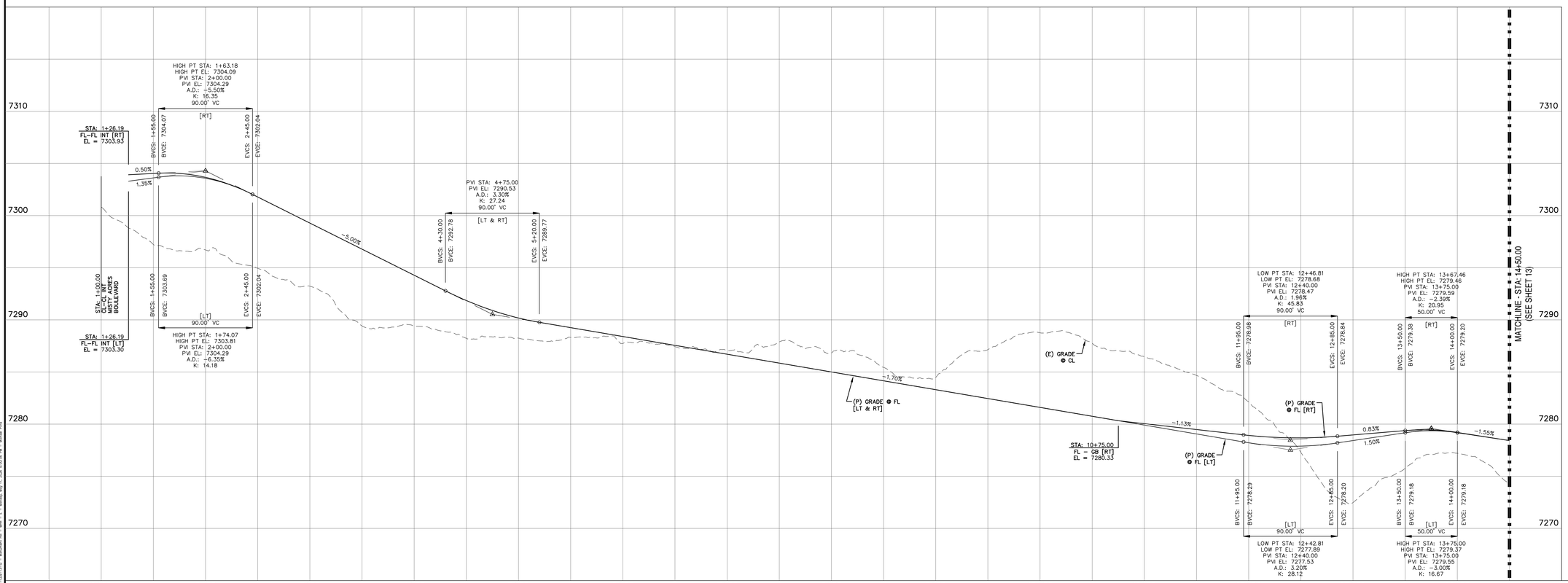
NUMBER	STATION	TYPE
14	2+12.03	PC
15	3+15.02	PT
16	4+57.66	PC
17	5+40.09	PT

♦ INTERSECTION PED. RAMP (REF: SD_2-41)

✱ CROSSPAN (REF: SD_2-26)

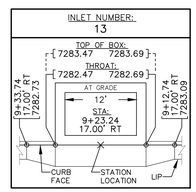
[A] CURB TYPE CALL-OUT

(30) CURB RETURN RADIUS

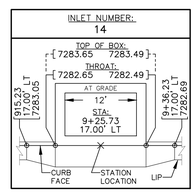


LINE TABLE – CL		
LINE	BEARING	DISTANCE
L14	S59° 45' 36"E	112.03
L15	S89° 15' 42"E	142.64
L16	N15° 46' 17"E	685.14
L17	N15° 46' 17"E	473.33

CURVE TABLE – CL			
CURVE	DELTA	RADIUS	LENGTH
C9	29°30'06"	200.00	102.98
C10	74°58'01"	63.00	82.43



INLET DATA
SCALE: N.T.S.



INLET DATA
SCALE: N.T.S.

REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	11/04/25
2	ADDRESS AGENCY COMMENTS	12/31/25
3	ADDRESS AGENCY COMMENTS	04/08/26
4	ADDRESS AGENCY COMMENTS	05/11/26

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STREET NAME ABBREVIATIONS:

MISTY ACRES BOULEVARD	= MAB
MONUMENT HILL ROAD [EAST]	= MHE
MONUMENT HILL ROAD [WEST]	= MHW
SNOWY TOP DRIVE	= STD
COUNTY LINE ROAD (SECTION LINE)	= CLR

[THE NORTH LINE OF THE SW 1/4 OF SECTION 2, T11S, R67W]

PREPARED FOR:
MONUMENT RIDGE EAST, LLC
5055 LIST DRIVE
COLORADO SPRINGS, CO 80919

PREPARED BY:
RAYMOND M. PRC

NOT FOR CONSTRUCTION

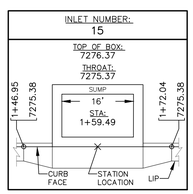
PRC ENGINEERING
1685 W. UINTAH STREET, SUITE 114
COLORADO SPRINGS, CO 80904
(719) 291-2744

MONUMENT HILL EAST FILING NO. 1
STREET IMPROVEMENT PLAN & PROFILE

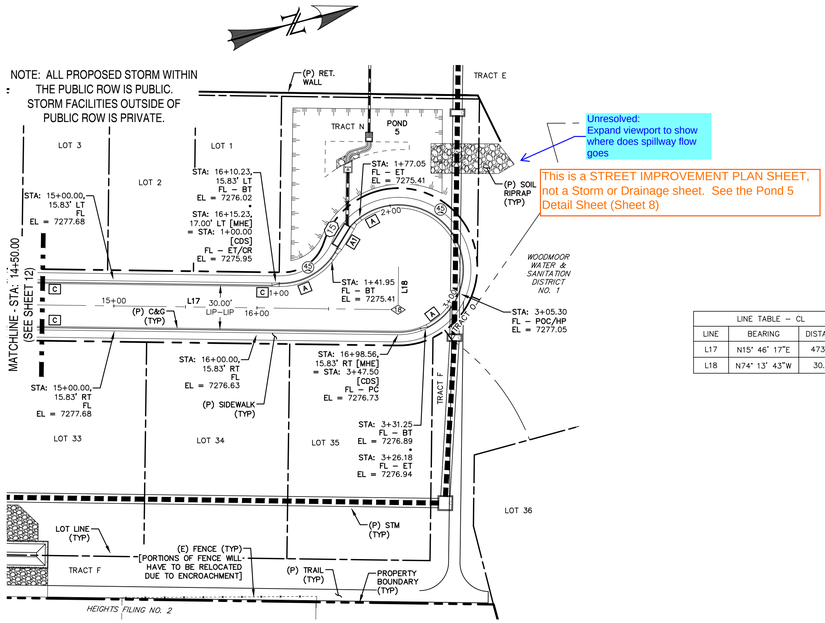
DESIGNED BY:	MGP	DRAWN BY:	MGP
SCALE:	1" = 50'	DATE:	04/08/25
JOB NUMBER		SHEET	
24-001		13 OF 29	

P:\Projects\24-001 MHE\dwg\24-001 ESI-13.dwg - Monument Hill East - Filing No. 1 - Tuesday, May 12, 2026 9:05:56 PM - Michael Pino

P:\Projects\24-001 MHE\dwg\24-001 ESI-13.dwg - Monument Hill East - Filing No. 1 - Tuesday, May 12, 2026 9:05:56 PM - Michael Pino



INLET DATA
SCALE: N.T.S.



Unresolved:
Expand viewport to show where does spillway flow goes

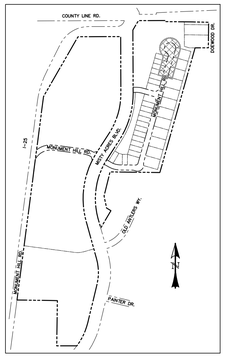
This is a STREET IMPROVEMENT PLAN SHEET, not a Storm or Drainage sheet. See the Pond 5 Detail Sheet (Sheet 8)

LINE TABLE – CL		
LINE	BEARING	DISTANCE
L17	N15° 46' 17"E	473.33
L18	N74° 13' 43"W	30.00

MONUMENT HILL ROAD [EAST]
(50' ROW)
STA: 14+50 ~ 17+50
URBAN LOCAL
25 MPH

CUL-DE-SAC FL
STA: 1+00 ~ 3+50

0 50 100
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

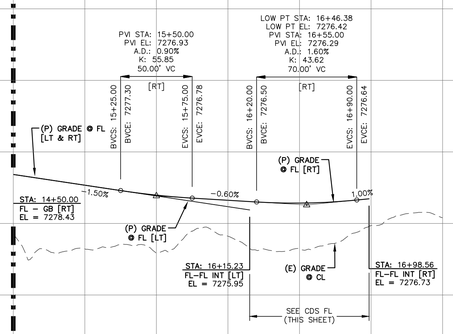


LOCATION MAP
SCALE: N.T.S.

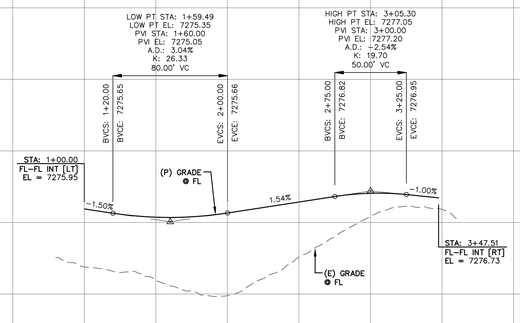
POINT TABLE - CL

NUMBER	STATION	TYPE
18	16+98.56	AP

[A] CURB TYPE CALL-OUT
(30) CURB RETURN RADIUS



MONUMENT HILL ROAD [EAST]



CUL-DE-SAC FL

14+00 15+00 16+00 17+00 1+00 2+00 3+00

REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	11/04/25
2	ADDRESS AGENCY COMMENTS	12/31/25
3	ADDRESS AGENCY COMMENTS	04/08/26
4	ADDRESS AGENCY COMMENTS	05/11/26

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STREET NAME ABBREVIATIONS:

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MONUMENT HILL ROAD [EAST]	= MHE
CUL-DE-SAC FL	= CDS
SNOWY TOP DRIVE	= STD
COUNTY LINE ROAD (SECTION LINE) [THE NORTH LINE OF THE SW 1/4 OF SECTION 2, T11S, R67W]	= CLR

PREPARED FOR:
MONUMENT RIDGE EAST, LLC
5055 LIST DRIVE
COLORADO SPRINGS, CO 80919

PREPARED
NOT FOR CONSTRUCTION
RAYMO

PRC ENGINEERING
1685 W. UINTAH STREET, SUITE 114
COLORADO SPRINGS, CO 80904
(719) 291-2744

MONUMENT HILL EAST
FILING NO. 1
STREET IMPROVEMENT
PLAN & PROFILE

DESIGNED BY:	MGP	DRAWN BY:	MGP
SCALE:	1" = 50'	DATE:	04/08/25
JOB NUMBER		SHEET	
24-001		14 OF 29	

P:\Projects\24-001 MHE\Dwg\CD\24-001 CD-14.dwg - Monument Hill East - 2 - Monday, May 11, 2026 9:53:52 PM - Michael Pino

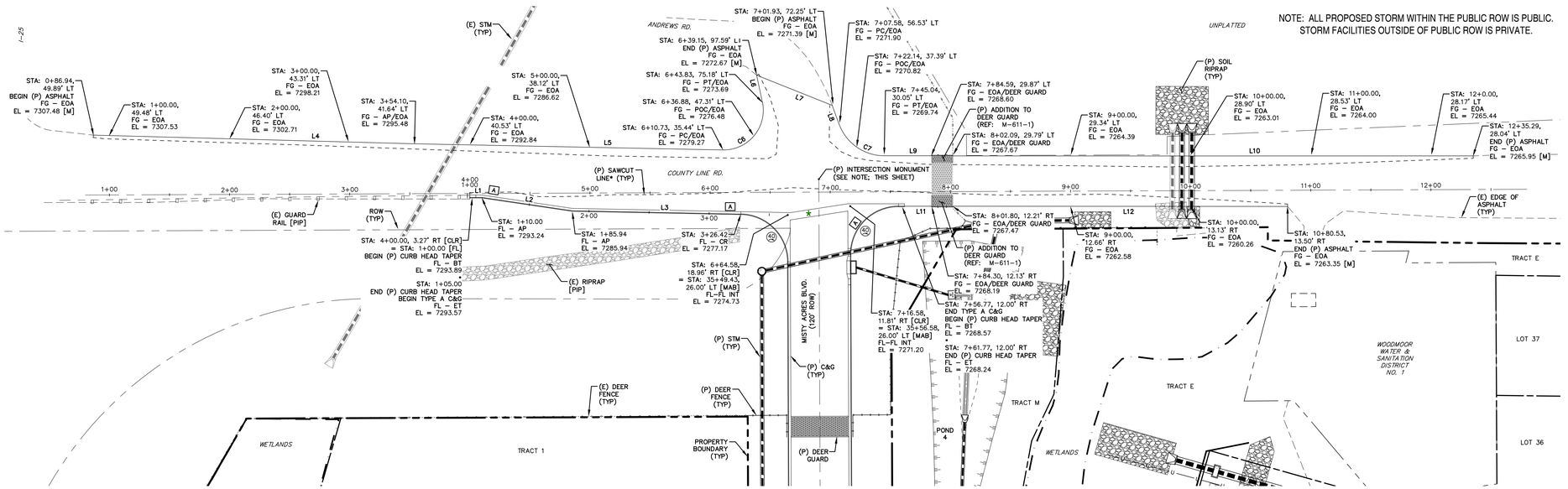
* SAWCUT & PAVEMENT NOTES:

1. EXISTING PAVEMENT MAY BE ROUGH CUT INITIALLY.
2. A SQUARE VERTICAL CUT SHALL BE MADE IN THE EXISTING A.C. PAVEMENT AFTER PLACEMENT OF BACKFILL PRIOR TO PAVEMENT REPLACEMENT.
3. THICKNESS OF NEW A.C. PAVEMENT AND BASE COURSE REPLACEMENT SHALL BE:
   4" A.C. WITH 12" BASE,
   OR
   8" A.C. FULL DEPTH,
   OR
   MATCH EXISTING,
   OR
   PER GEOTECHNICAL ENGINEERS RECOMMENDATION, WHICHEVER IS GREATER.

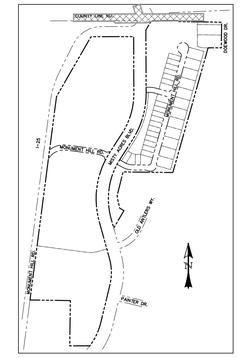
LINE TABLE – FL		
LINE	BEARING	DISTANCE
L1	S89° 58' 11"E	10.00
L2	S81° 34' 38"E	75.94
L3	S88° 52' 50"E	140.48

LINE TABLE – EDGE OF PAVEMENT		
LINE	BEARING	DISTANCE
L4	S88° 27' 33"E	267.28
L5	S88° 50' 39"E	256.71
L6	N12° 01' 43"W	22.89
L7	S68° 15' 07"E	67.71
L8	S19° 59' 13"E	16.70
L9	S89° 57' 44"E	39.55
L10	S89° 59' 44"E	433.20
L11	S89° 57' 44"E	22.54
L12	S89° 57' 44"E	278.73

CURVE TABLE – EDGE OF PAVEMENT			
CURVE	DELTA	RADIUS	LENGTH
C6	103°11'04"	33.00	59.43
C7	69°58'31"	40.00	48.85



COUNTY LINE ROAD
(ROW VARIES)
STA: 1+00 ~ 13+00
RURAL MAJOR COLLECTOR
50 MPH



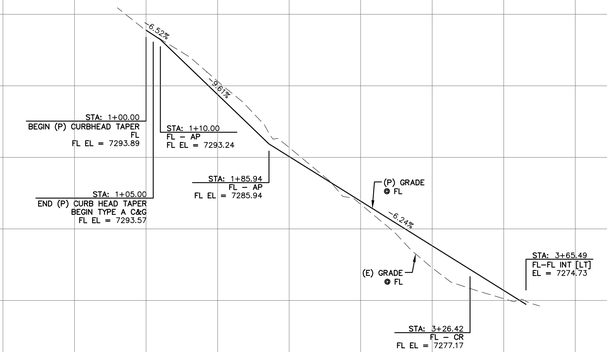
INTERSECTION MONUMENTATION NOTE:

ALL ROADWAY INTERSECTIONS OF COLLECTOR CLASSIFICATION AND ABOVE SHALL BE MONUMENTED AT THE CENTERLINE INTERSECTION AT COMPLETION OF CONSTRUCTION. A METALLIC PIPE OR ROD POSSESSING A MAGNETIC FIELD AND HAVING A MINIMUM OUTSIDE DIAMETER OF 5/8" (#5 REBAR), A MINIMUM LENGTH OF 18", AND A TWO-INCH MINIMUM DIAMETER DURABLE METALLIC CAP MARKED WITH PLS NO. (2.5" CAP PREFERRED) SHALL BE INSTALLED IN A LOAD BEARING SURVEY MONUMENT BOX. THE TOP OF THE BOX SHALL BE SET FLUSH WITH THE SURFACE OF THE PAVEMENT. THE MONUMENTS SHALL BE LOCATED (WITH LINEAR AND ANGULAR DIMENSIONS) AND DESCRIBED ON THE FINAL PLAT.

★ CROSSPAN (REF: SD_2-26)

[A] CURB TYPE CALL-OUT

(42) CURB RETURN RADIUS



REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	11/04/25
2	ADDRESS AGENCY COMMENTS	12/31/25
3	ADDRESS AGENCY COMMENTS	04/08/26
4	ADDRESS AGENCY COMMENTS	05/11/26

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MONUMENT HILL ROAD [WEST]	= MHW
SNOWY TOP DRIVE	= STD
COUNTY LINE ROAD (SECTION LINE) [CENTER LINE BASED ON THE NORTH LINE OF THE SW 1/4 OF SECTION 2, T11S, R67W]	= CLR

PREPARED FOR:
MONUMENT RIDGE EAST, LLC
5055 LIST DRIVE
COLORADO SPRINGS, CO 80919

PREPARED
RAYMO
NOT FOR CONSTRUCTION

PRC ENGINEERING
1685 W. UINTAH STREET, SUITE 114
COLORADO SPRINGS, CO 80904
(719) 291-2744

MONUMENT HILL EAST FILING NO. 1
STREET IMPROVEMENT PLAN & PROFILE

DESIGNED BY: MGP	DRAWN BY: MGP
SCALE: 1" = 50'	DATE: 04/08/25
JOB NUMBER: 24-001	SHEET: 15 OF 29

J:\Projects\24-001 MHE\Proj_CD\[PVC]24-001 CDs-15-3 - County Line - CLR - Monday, May 11, 2026 8:10:08 PM - Michael Pitts

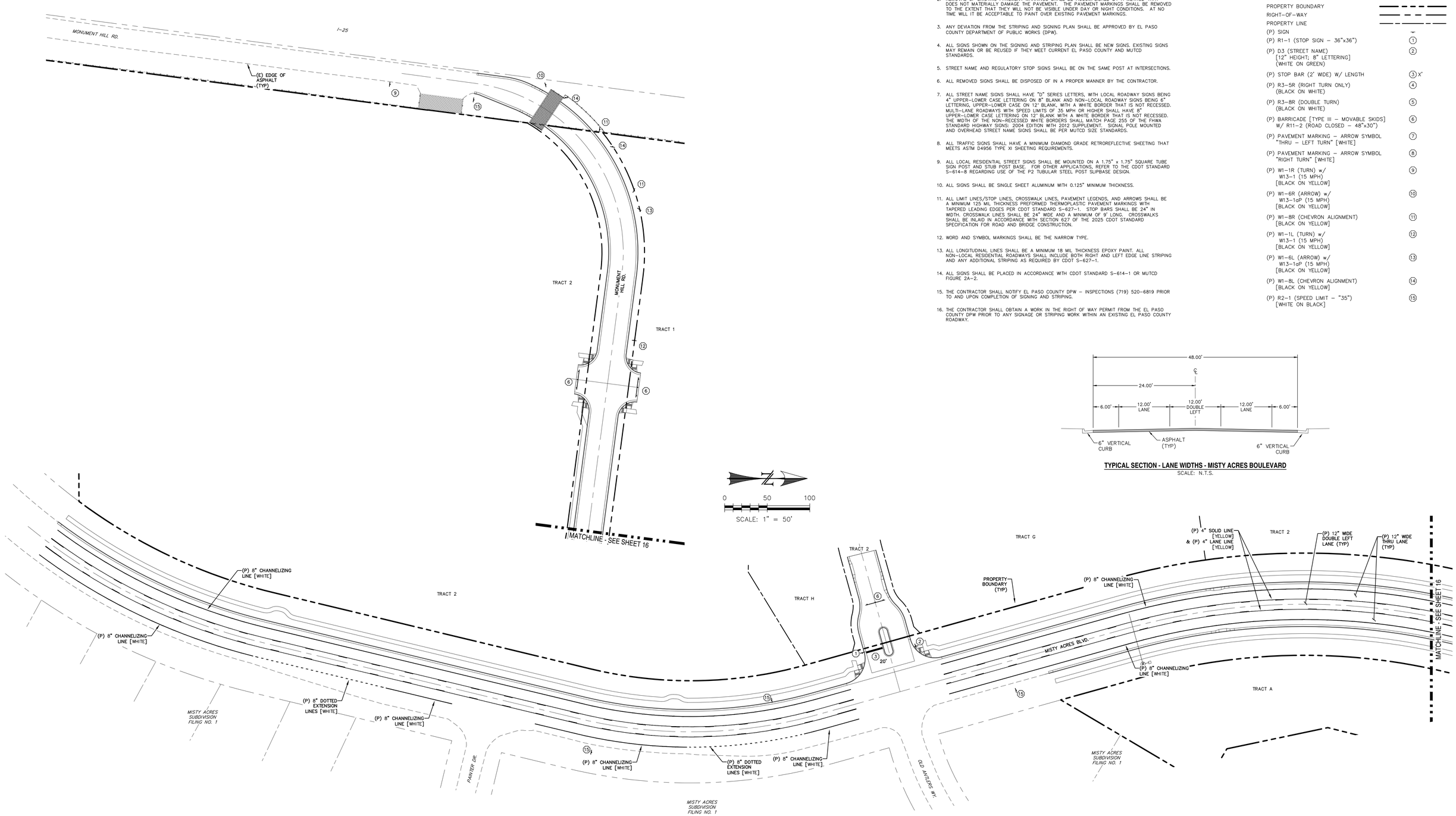
SIGNING & STRIPING NOTES:

1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.
3. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW).
4. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.
5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
6. ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
7. ALL STREET NAME SIGNS SHALL HAVE "D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 35 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 12" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE FHWA STANDARD HIGHWAY SIGNS: 2004 EDITION WITH 2012 SUPPLEMENT. SIGNAL POLE MOUNTED AND OVERHEAD STREET NAME SIGNS SHALL BE PER MUTCD SIZE STANDARDS.
8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM DIAMOND GRADE RETROREFLECTIVE SHEETING THAT MEETS ASTM D4956 TYPE XI SHEETING REQUIREMENTS.
9. ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" x 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.
10. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.125" MINIMUM THICKNESS.
11. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALK LINES SHALL BE 24" WIDE AND A MINIMUM OF 9' LONG. CROSSWALKS SHALL BE INLAID IN ACCORDANCE WITH SECTION 627 OF THE 2025 CDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.
12. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE.
13. ALL LONGITUDINAL LINES SHALL BE A MINIMUM 18 MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.
14. ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH CDOT STANDARD S-614-1 OR MUTCD FIGURE 2A-2.
15. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY DPW - INSPECTIONS (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
16. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DPW PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.

LEGEND

EXISTING	(E)
PROPOSED	(P)
CURB AND GUTTER	C&G
PROPERTY BOUNDARY	
RIGHT-OF-WAY	
PROPERTY LINE	
(P) SIGN	
(P) R1-1 (STOP SIGN - 36"x36")	(1)
(P) D3 (STREET NAME) [12" HEIGHT; 8" LETTERING] (WHITE ON GREEN)	(2)
(P) STOP BAR (2' WIDE) W/ LENGTH	(3) X'
(P) R3-5R (RIGHT TURN ONLY) (BLACK ON WHITE)	(4)
(P) R3-8R (DOUBLE TURN) (BLACK ON WHITE)	(5)
(P) BARRICADE [TYPE III - MOVABLE SKIDS] W/ R11-2 (ROAD CLOSED - 48"x30")	(6)
(P) PAVEMENT MARKING - ARROW SYMBOL "THRU - LEFT TURN" [WHITE]	(7)
(P) PAVEMENT MARKING - ARROW SYMBOL "RIGHT TURN" [WHITE]	(8)
(P) W1-1R (TURN) w/ W13-1 (15 MPH) [BLACK ON YELLOW]	(9)
(P) W1-6R (ARROW) w/ W13-1aP (15 MPH) [BLACK ON YELLOW]	(10)
(P) W1-8R (CHEVRON ALIGNMENT) [BLACK ON YELLOW]	(11)
(P) W1-1L (TURN) w/ W13-1 (15 MPH) [BLACK ON YELLOW]	(12)
(P) W1-6L (ARROW) w/ W13-1aP (15 MPH) [BLACK ON YELLOW]	(13)
(P) W1-8L (CHEVRON ALIGNMENT) [BLACK ON YELLOW]	(14)
(P) R2-1 (SPEED LIMIT - "35") [WHITE ON BLACK]	(15)

TYPICAL SECTION - LANE WIDTHS - MISTY ACRES BOULEVARD
SCALE: N.T.S.



REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	11/04/25
2	ADDRESS AGENCY COMMENTS	12/31/25
3	ADDRESS AGENCY COMMENTS	04/08/26
4	ADDRESS AGENCY COMMENTS	05/11/26

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For more details visit: www.call811.com

PREPARED FOR:
MONUMENT RIDGE EAST, LLC
5055 LIST DRIVE
COLORADO SPRINGS, CO 80919

PREPARED BY:
RAYMOND GREEN, P.E.

NOT FOR CONSTRUCTION

PRC ENGINEERING
1685 W. UINTAH STREET, SUITE 114
COLORADO SPRINGS, CO 80904
(719) 291-2744

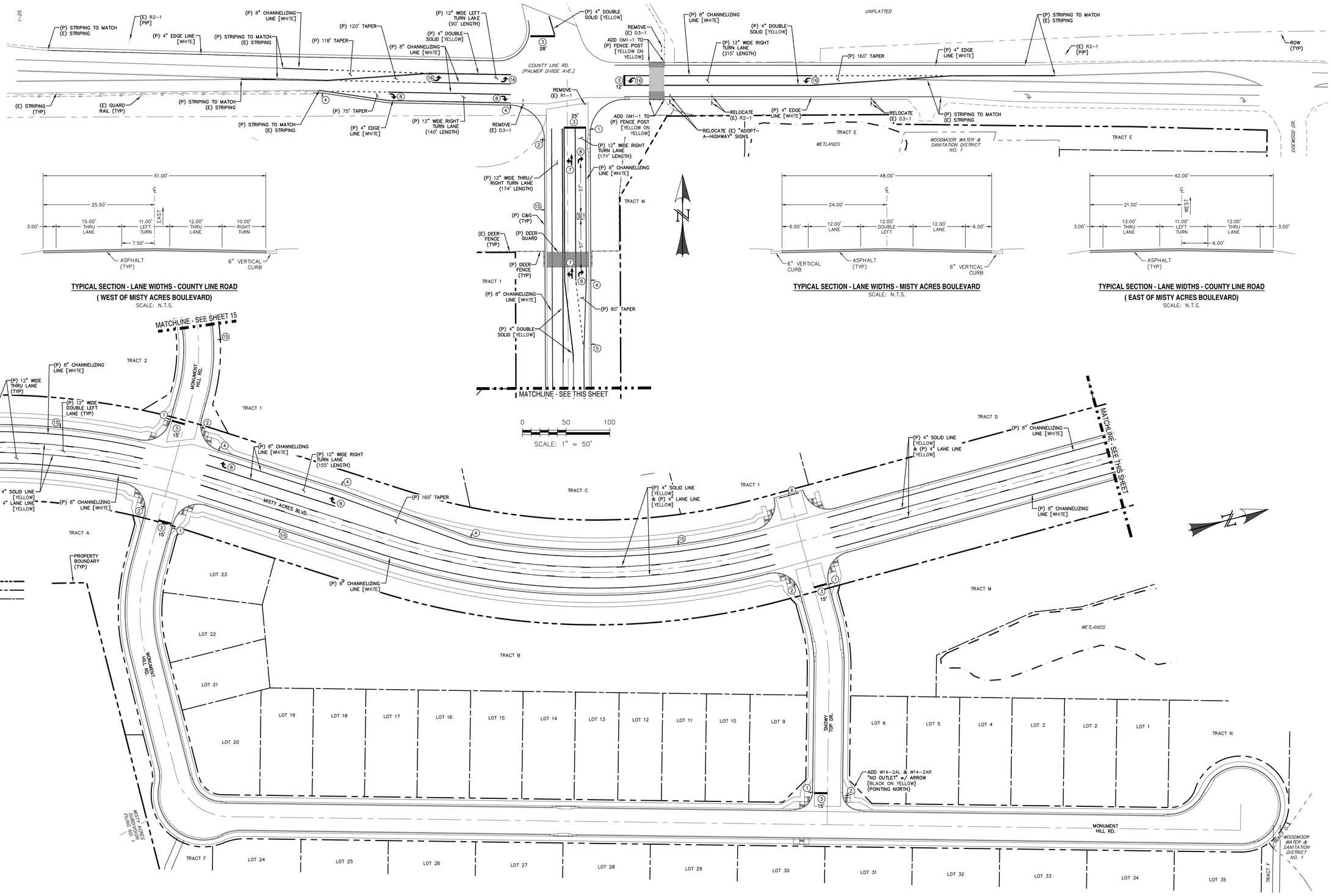
MONUMENT HILL EAST FILING NO. 1
SIGNAGE & STRIPING PLAN

DESIGNED BY: MGP	DRAWN BY: MGP
SCALE: 1" = 50'	DATE: 04/08/25
JOB NUMBER: 24-001	SHEET: 16 OF 29

P:\Projects\24-001 MHE\Civil_CDs\PLAN\24-001-CDs-SIGN.dwg - Sign - Signage - Monday, May 11, 2026 8:04:13 AM - Michael Philp

SIGNING & STRIPING NOTES:

1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.
3. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW).
4. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.
5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
6. ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
7. ALL STREET NAME SIGNS SHALL HAVE "D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 35 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 12" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE FHWA STANDARD HIGHWAY SIGNS: 2004 EDITION WITH 2012 SUPPLEMENT. SIGNAL POLE MOUNTED AND OVERHEAD STREET NAME SIGNS SHALL BE PER MUTCD SIZE STANDARDS.
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TYPICAL SECTION - LANE WIDTHS - COUNTY LINE ROAD
(WEST OF MISTY ACRES BOULEVARD)
SCALE: N.T.S.

TYPICAL SECTION - LANE WIDTHS - MISTY ACRES BOULEVARD
SCALE: N.T.S.

TYPICAL SECTION - LANE WIDTHS - COUNTY LINE ROAD
(EAST OF MISTY ACRES BOULEVARD)
SCALE: N.T.S.

LEGEND

EXISTING	(E)
PROPOSED	(P)
CURB AND GUTTER	C&G
PROPERTY BOUNDARY	
RIGHT-OF-WAY	
PROPERTY LINE	
(P) SIGN	
(P) R1-1 (STOP SIGN – 36"x36")	1
(P) D3 (STREET NAME) [12" HEIGHT; 8" LETTERING] (WHITE ON GREEN)	2
(P) STOP BAR (2' WIDE) W/ LENGTH	3 X'
(P) R3-5R (RIGHT TURN ONLY) (BLACK ON WHITE)	4
(P) R3-8R (DOUBLE TURN) (BLACK ON WHITE)	5
(P) BARRICADE [TYPE III – MOVABLE SKIDS] W/ R11-2 (ROAD CLOSED – 48"x30")	6
(P) PAVEMENT MARKING – ARROW SYMBOL "THRU – LEFT TURN" [WHITE]	7
(P) PAVEMENT MARKING – ARROW SYMBOL "RIGHT TURN" [WHITE]	8
(P) W1-1R (TURN) W/ W13-1 (15 MPH) [BLACK ON YELLOW]	9
(P) W1-6R (ARROW) W/ W13-1aP (15 MPH) [BLACK ON YELLOW]	10
(P) W1-8R (CHEVRON ALIGNMENT) [BLACK ON YELLOW]	11
(P) W1-1L (TURN) W/ W13-1 (15 MPH) [BLACK ON YELLOW]	12
(P) W1-6L (ARROW) W/ W13-1aP (15 MPH) [BLACK ON YELLOW]	13
(P) W1-8L (CHEVRON ALIGNMENT) [BLACK ON YELLOW]	14
(P) R2-1 (SPEED LIMIT – "35") [WHITE ON BLACK]	15
(P) PAVEMENT MARKING – ARROW SYMBOL "LEFT TURN" [WHITE]	16

REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	11/04/25
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PREPARED FOR:
MONUMENT RIDGE EAST, LLC
5055 LIST DRIVE
COLORADO SPRINGS, CO 80919

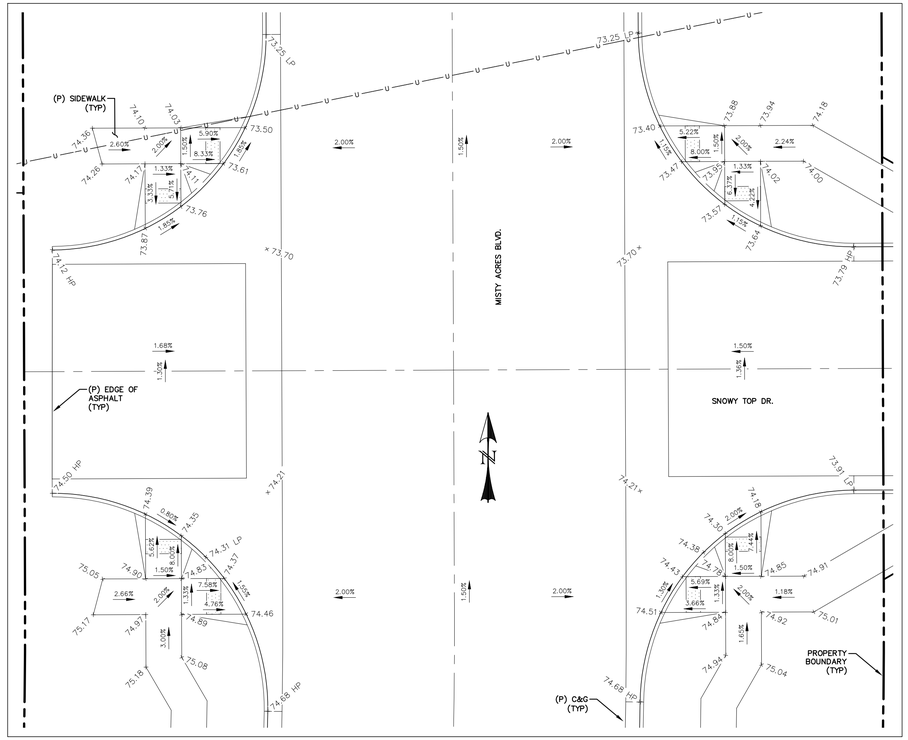
PREPARED
NOT FOR CONSTRUCTION
RAYMO

PRC ENGINEERING
1685 W. UINTAH STREET, SUITE 114
COLORADO SPRINGS, CO 80904
(719) 291-2744

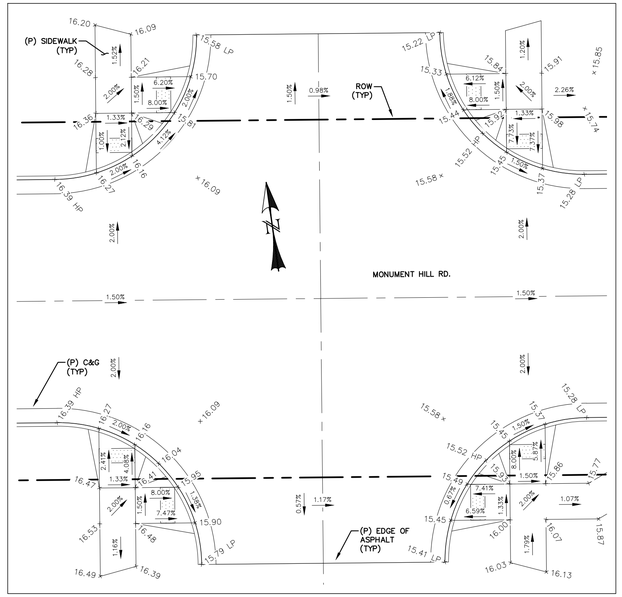
MONUMENT HILL EAST FILING NO. 1
SIGNAGE & STRIPING PLAN

DESIGNED BY: MGP	DRAWN BY: MGP
SCALE: 1" = 50'	DATE: 04/08/25
JOB NUMBER: 24-001	SHEET: 17 OF 29

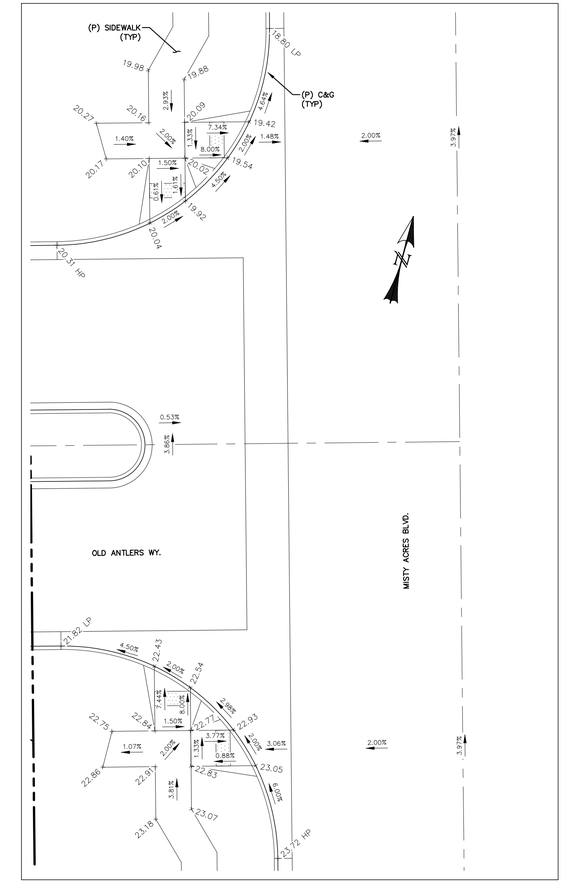
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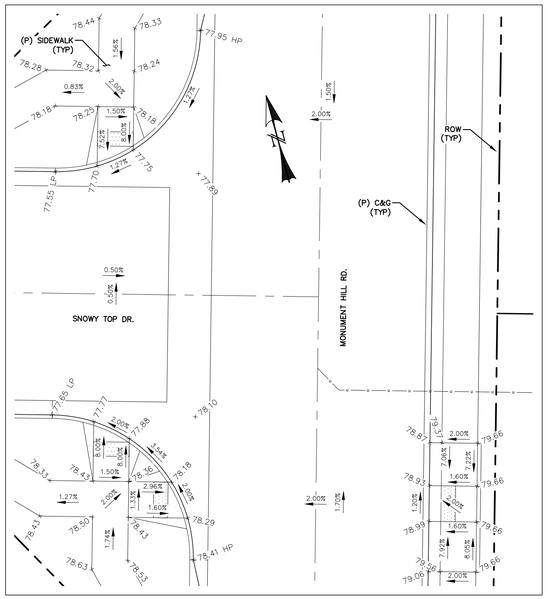
PEDESTRIAN RAMP DETAIL - MISTY ACRES BLVD. & SNOWY TOP DR.
SCALE: 1" = 10'



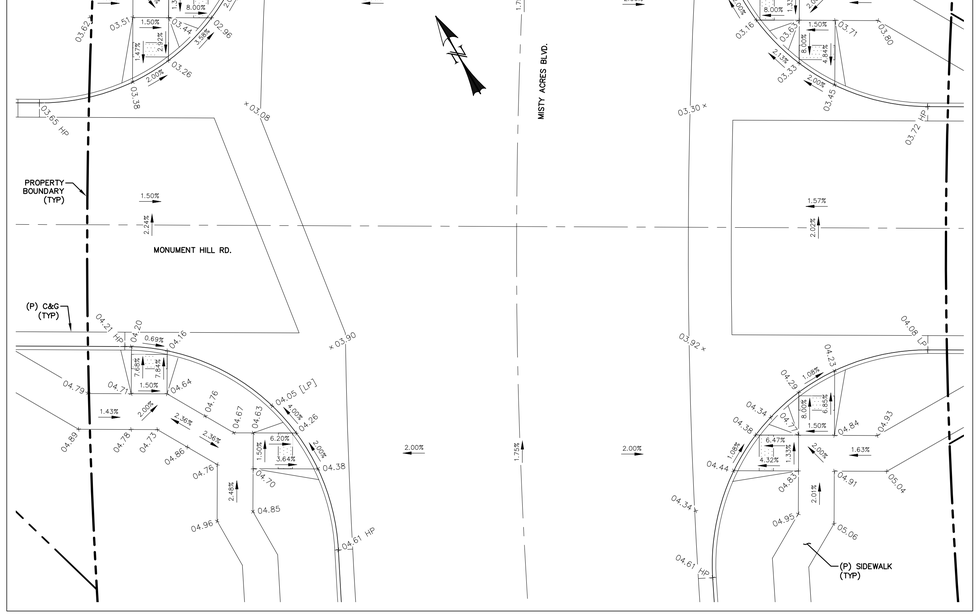
PEDESTRIAN RAMP DETAIL - MONUMENT HILL RD. WEST INTERSECTION
SCALE: 1" = 10'



PEDESTRIAN RAMP DETAIL - MISTY ACRES BLVD. & OLD ANTLERS WY.
SCALE: 1" = 10'



PEDESTRIAN RAMP DETAIL - MONUMENT HILL RD. & SNOWY TOP DR.
SCALE: 1" = 10'



PEDESTRIAN RAMP DETAIL - MISTY ACRES BLVD. & MONUMENT HILL RD.
SCALE: 1" = 10'

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0 10 20
SCALE: 1" = 10'

PREPARED FOR:
MONUMENT RIDGE EAST, LLC
5055 LIST DRIVE
COLORADO SPRINGS, CO 80919

PREPARED
NOT FOR CONSTRUCTION
RAYMO

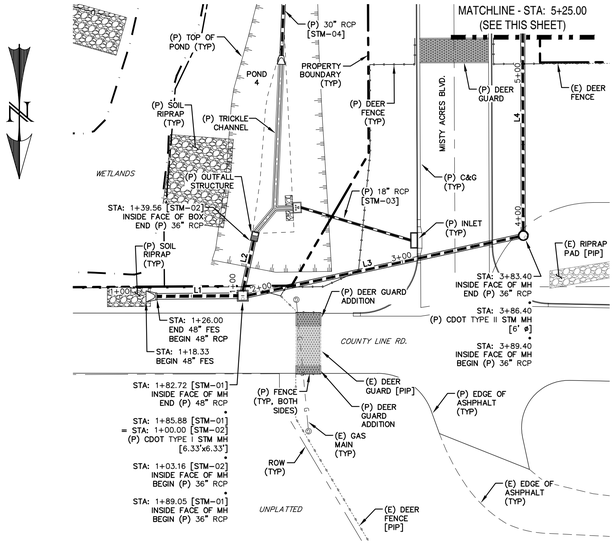
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COLORADO SPRINGS, CO 80904
(719) 291-2744

MONUMENT HILL EAST
FILING NO. 1

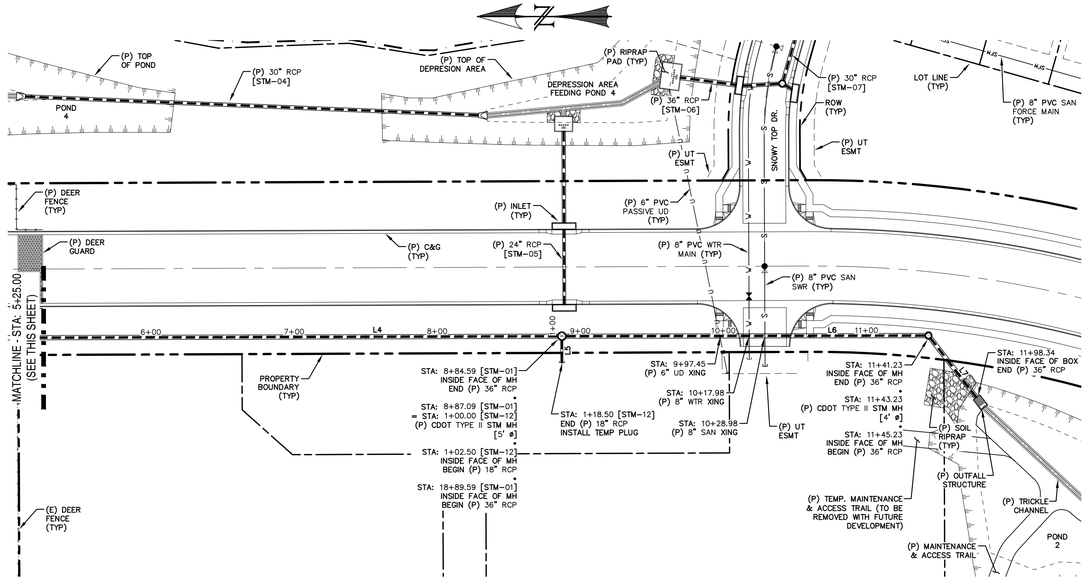
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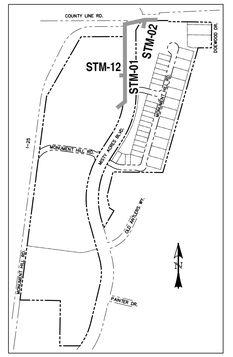
DESIGNED BY:	MGP	DRAWN BY:	MGP
SCALE:	1" = 10'	DATE:	04/08/25
JOB NUMBER		SHEET	
24-001		18 OF 29	

A:_Projects\24-001 MHTC\Civil\24-001-Civ-04 Ped Ramp Details - Ped Ramps - Monday, May 11, 2026 3:55:23 PM - Winslow Finis



LINE TABLE – STM		
LINE	BEARING	DISTANCE
L1	S89° 33' 38"W	56.72
L2	S12° 26' 47"W	36.39
L3	S77° 43' 18"W	194.35
L4	S0° 09' 44"E	495.20
L5	S89° 50' 16"W	16.00
L6	S0° 06' 11"E	251.64
L7	S52° 14' 18"W	53.11





NOTE:

1. WATER TIGHT SEAL IS REQUIRED WHEN THE 100-YEAR HGL IS OUTSIDE OF THE PIPES.

0 50 100

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

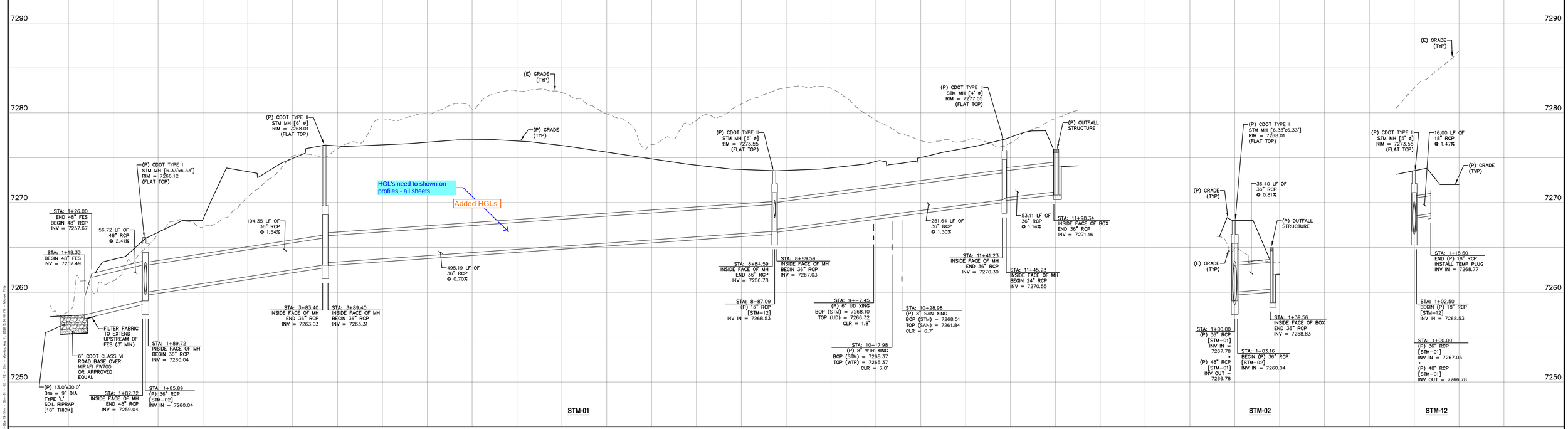
NOTE: REFER TO SWMM MODEL FOR STORM PIPE HYDRAULICS RESULTS.

Updated Note

Delete - all sheets

NOTE: REFER TO SWMM MODEL FOR STORM PIPE HYDRAULICS RESULTS.

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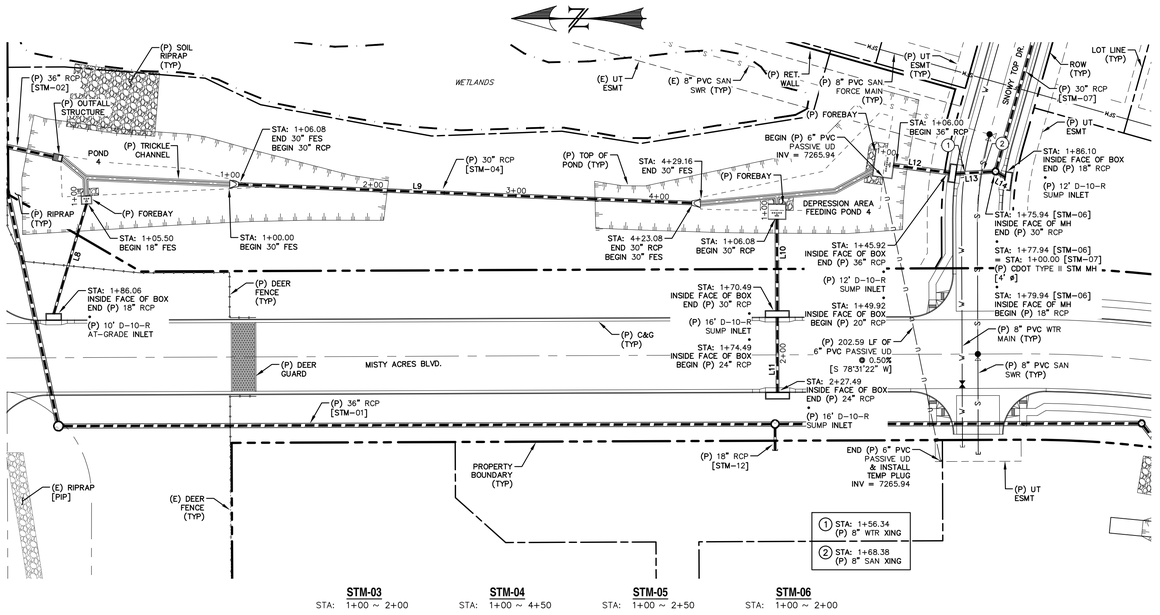
MONUMENT HILL EAST FILING NO. 1
STORM SEWER PLAN & PROFILES

DESIGNED BY:	MGP	DRAWN BY:	MGP
SCALE:	1" = 50'	DATE:	04/08/25
JOB NUMBER		SHEET	
24-001		19 OF 29	

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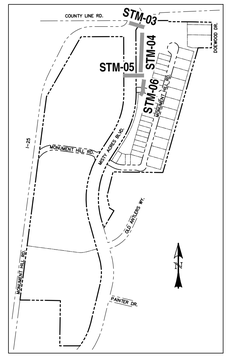
LINE TABLE – STM		
LINE	BEARING	DISTANCE
L8	N73° 22' 42"W	80.56
L9	S2° 21' 05"W	317.00
L10	S89° 46' 22"W	64.41
L11	S89° 46' 22"W	53.00
L12	S7° 35' 34"W	39.92
L13	S3° 11' 32"E	26.02
L14	S30° 33' 30"W	6.16



STM-03 STA: 1+00 ~ 2+00 | **STM-04** STA: 1+00 ~ 4+50 | **STM-05** STA: 1+00 ~ 2+50 | **STM-06** STA: 1+00 ~ 2+00

0 50 100

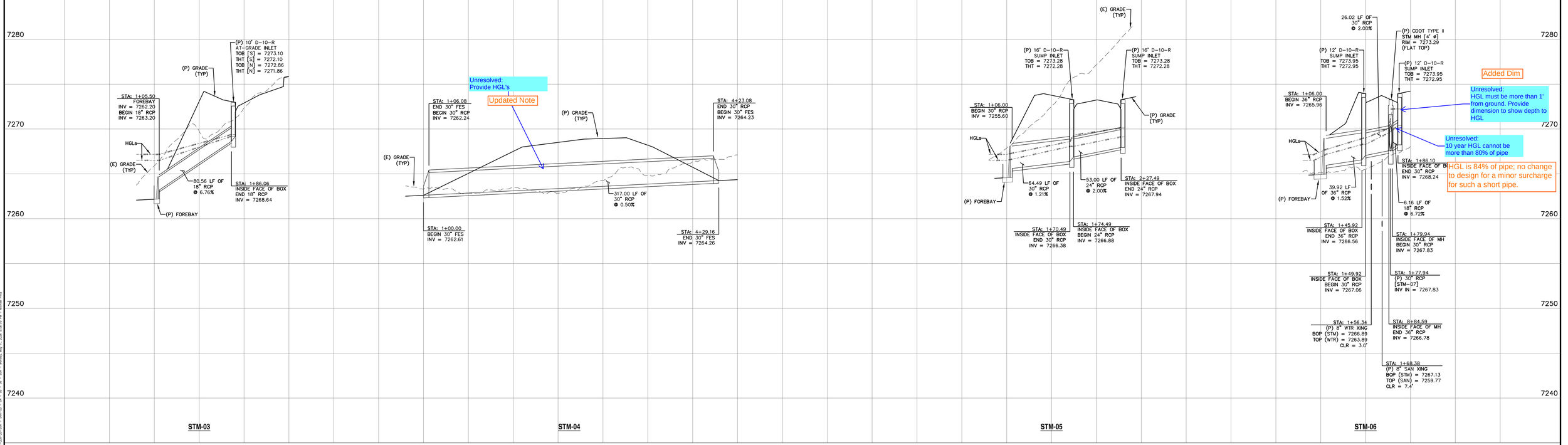
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



LOCATION MAP
SCALE: N.T.S.

NOTE:
1. WATER TIGHT SEAL IS REQUIRED WHEN THE 100-YEAR HGL IS OUTSIDE OF THE PIPES.

NOTE: REFER TO SWMM MODEL FOR STORM PIPE HYDRAULICS RESULTS.



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5055 LIST DRIVE
COLORADO SPRINGS, CO 80919

PREPARED BY:
RAYMOND

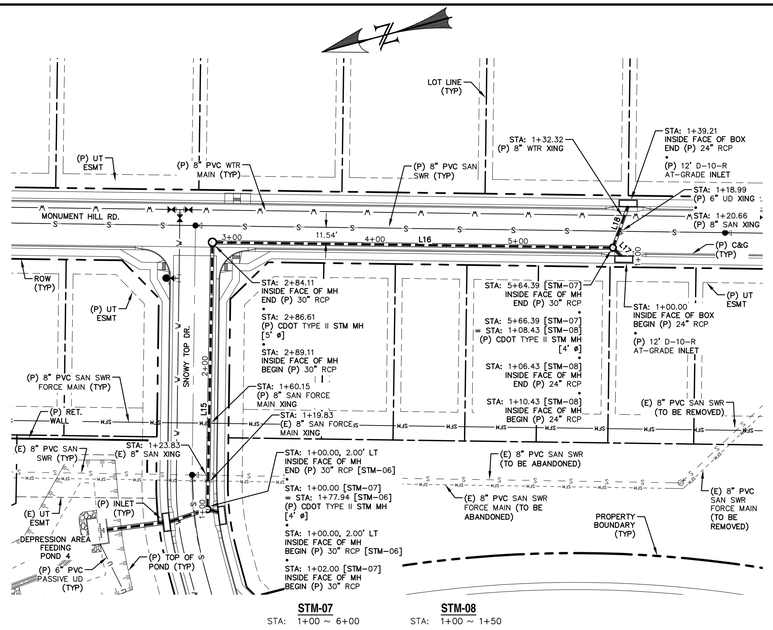
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1685 W. UINTAH STREET, SUITE 114
COLORADO SPRINGS, CO 80904
(719) 291-2744

MONUMENT HILL EAST FILING NO. 1
STORM SEWER PLAN & PROFILES

DESIGNED BY:	MGP	DRAWN BY:	MGP
SCALE:	1" = 50'	DATE:	04/08/25
JOB NUMBER		SHEET	
24-001		20 OF 29	

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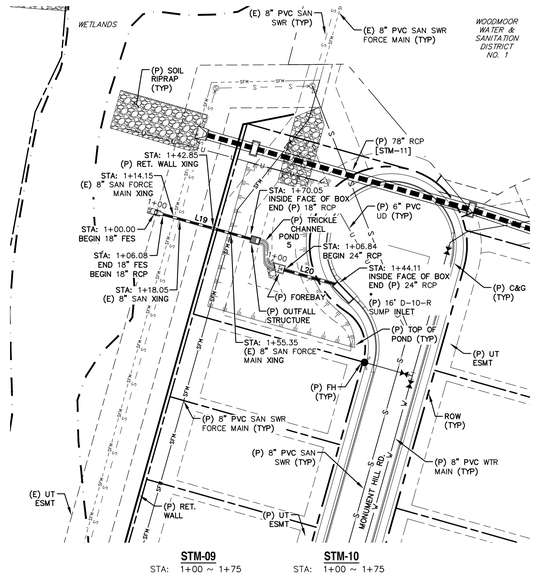


STM-07
STA: 1+00 ~ 6+00

STM-08
STA: 1+00 ~ 1+50

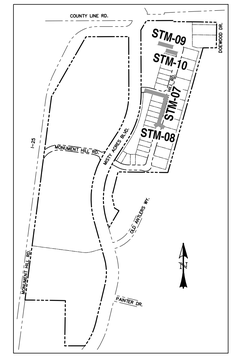
LINE TABLE – STM		
LINE	BEARING	DISTANCE
L15	S73° 56' 28"E	182.11
L16	S15° 46' 17"W	275.28
L17	S60° 46' 17"W	6.43
L18	S54° 52' 04"E	28.78
L19	S74° 21' 50"E	63.97
L20	S74° 13' 43"E	37.27

0 50 100
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



STM-09
STA: 1+00 ~ 1+75

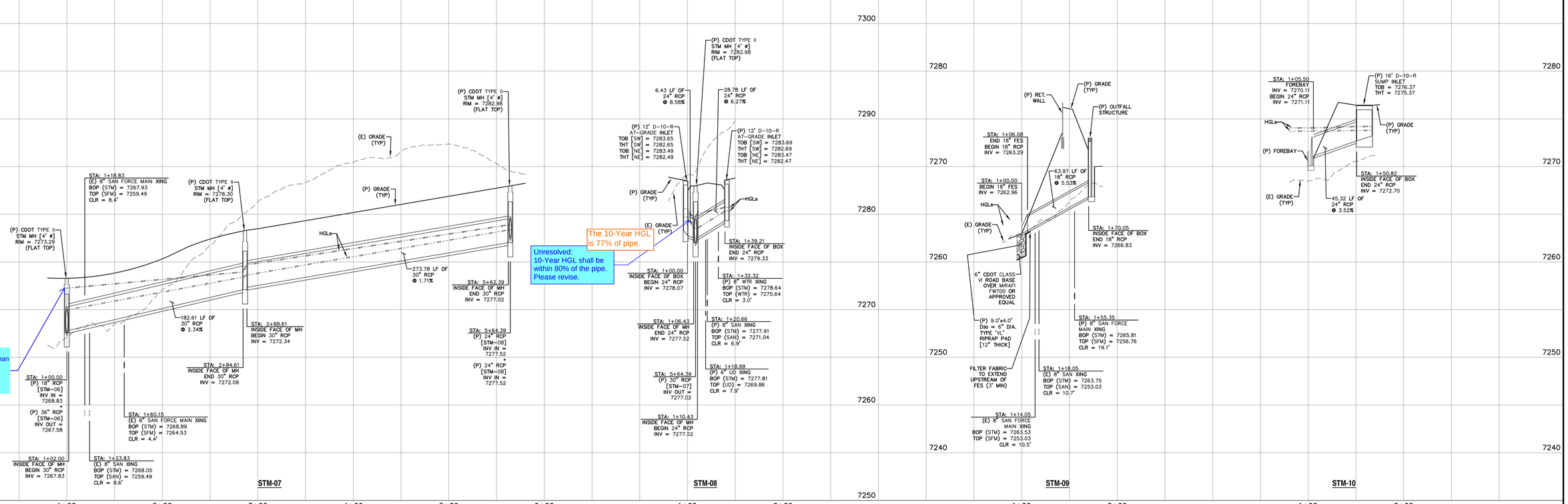
STM-10
STA: 1+00 ~ 1+75



LOCATION MAP
SCALE: N.T.S.

NOTE:
1. WATER TIGHT SEAL IS REQUIRED WHEN THE 100-YEAR HGL IS OUTSIDE OF THE PIPES.

NOTE: REFER TO SWMM MODEL FOR STORM PIPE HYDRAULICS RESULTS.



REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	11/04/25
2	ADDRESS AGENCY COMMENTS	12/31/25
3	ADDRESS AGENCY COMMENTS	04/08/26
4	ADDRESS AGENCY COMMENTS	05/11/26

811 Know what's below. Call 72 hours before you dig. For more details visit: www.call811.com

PREPARED FOR:
MONUMENT RIDGE EAST, LLC
5055 LIST DRIVE
COLORADO SPRINGS, CO 80919

PREPARED
RAYMO

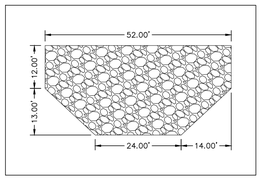
NOT FOR CONSTRUCTION

PRC ENGINEERING
1685 W. UINTAH STREET, SUITE 114
COLORADO SPRINGS, CO 80904
(719) 291-2744

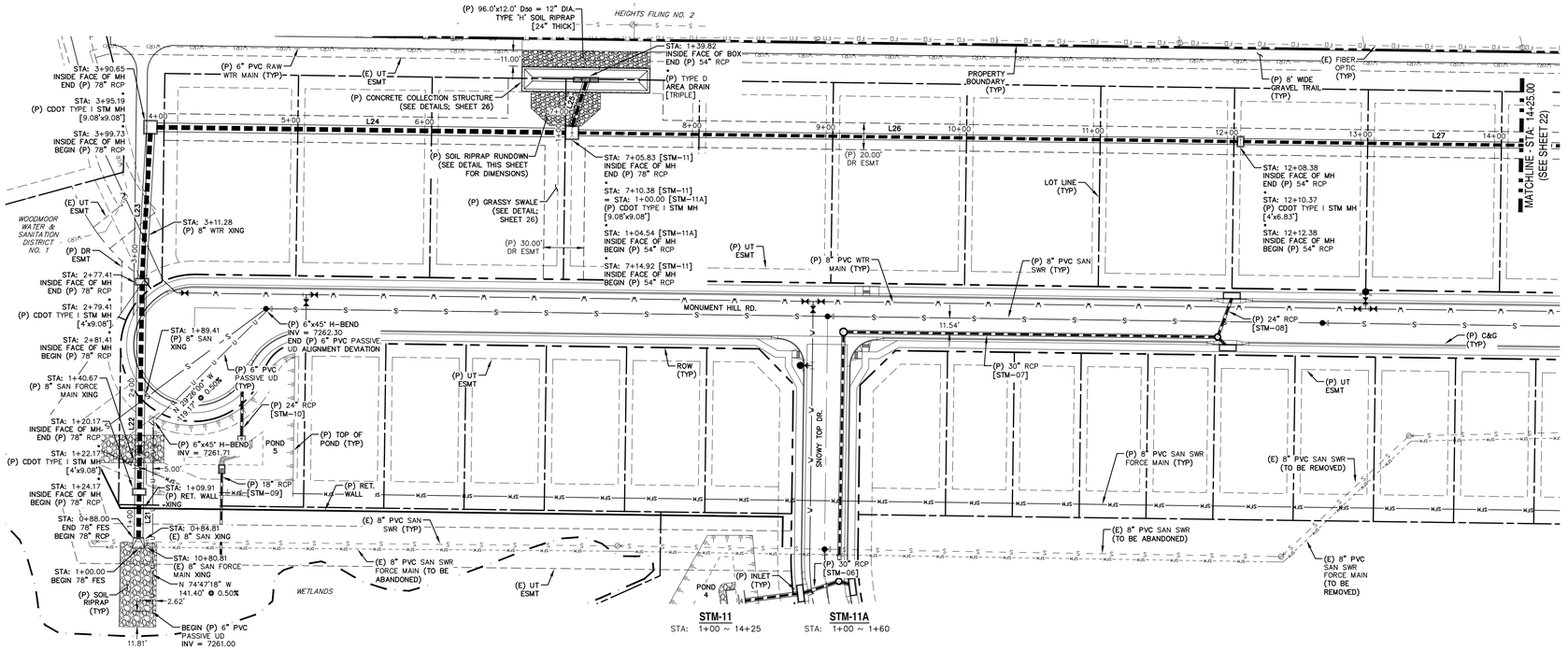
MONUMENT HILL EAST FILING NO. 1
STORM SEWER PLAN & PROFILES

DESIGNED BY: MGP	DRAWN BY: MGP
SCALE: 1" = 50'	DATE: 04/08/25
JOB NUMBER: 24-001	SHEET: 21 OF 29

C:\Projects\24-001 MHE\Dwg_CD\[PVC24-001 CD].dwg Plotted: Jun 11, 2026 3:57:21 PM by Michael Pinto



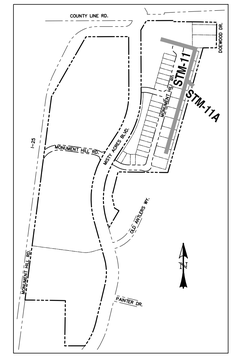
SOIL RIPRAP RUNDOWN DIMENSION DETAIL
SCALE: 1" = 20'

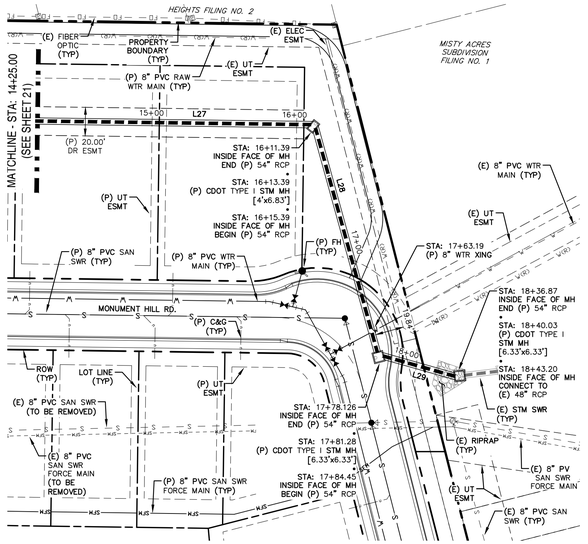


NOTE:

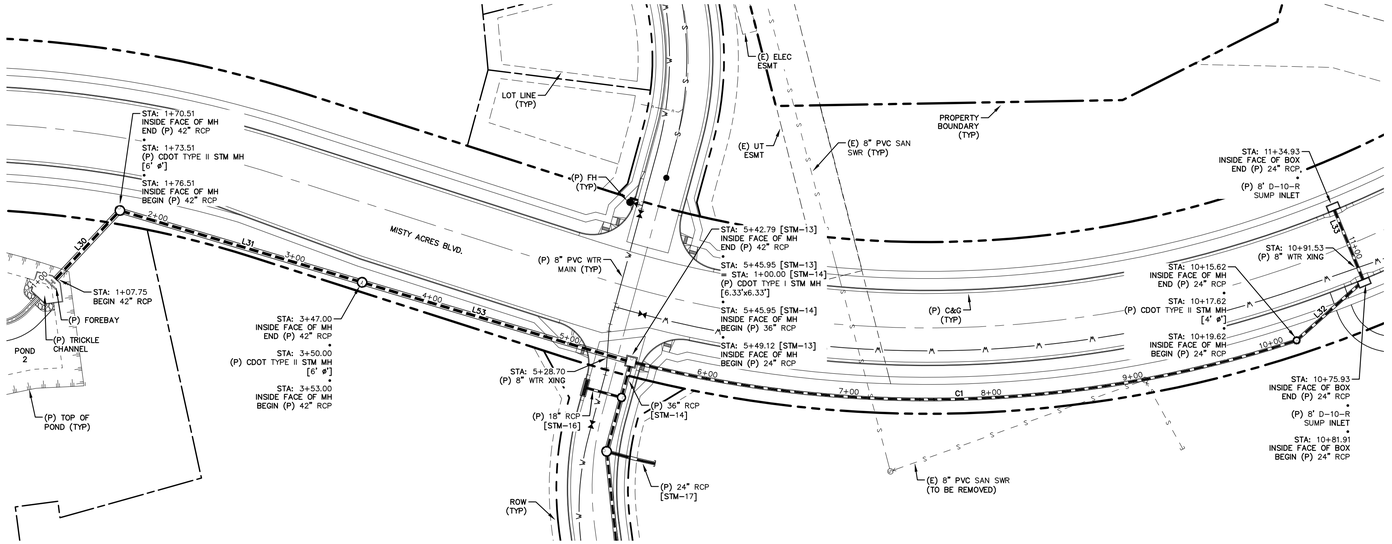
1. WATER TIGHT SEAL IS REQUIRED WHEN THE 100-YEAR HGL IS OUTSIDE OF THE PIPES.

LINE TABLE – STM		
LINE	BEARING	DISTANCE
L21	S74° 13' 43"E	32.17
L22	S74° 13' 43"E	153.25
L23	S71° 42' 08"E	109.24
L24	S15° 45' 19"W	306.10
L25	S57° 23' 43"E	35.27
L26	S15° 45' 21"W	493.46
L27	S15° 45' 22"W	400.41

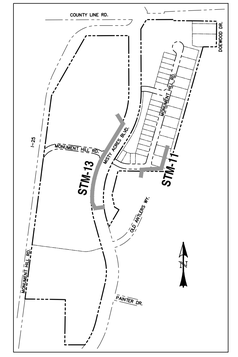




STM-11
STA: 14+25 ~ 18+60



STM-13
STA: 1+00 ~ 1+60



LOCATION MAP
SCALE: N.T.S.

LINE TABLE – STM		
LINE	BEARING	DISTANCE
L27	S15° 45' 22"W	399.01
L28	S89° 34' 41"W	162.73
L29	S30° 48' 32"W	52.42
L30	S31° 48' 01"E	62.76
L31	S31° 30' 33"W	170.49
L32	S26° 44' 44"E	56.31
L33	N82° 41' 18"E	53.01
L53	S31° 30' 33"W	189.79

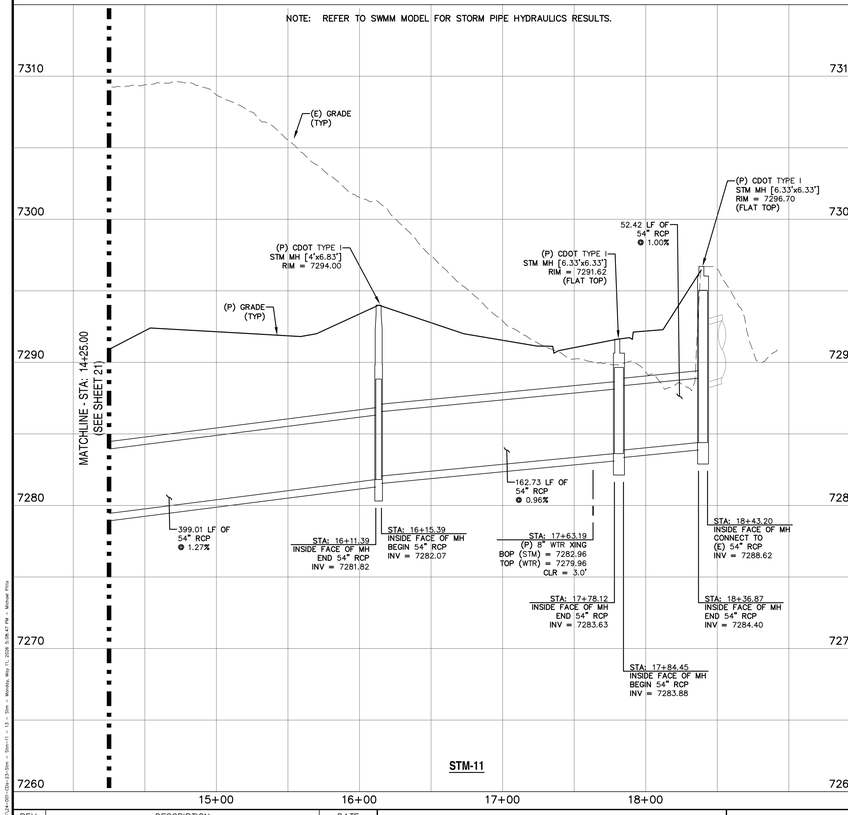
CURVE TABLE – STM			
CURVE	DELTA	RADIUS	LENGTH
C1	32°23'54"	825.00	466.50

NOTE:

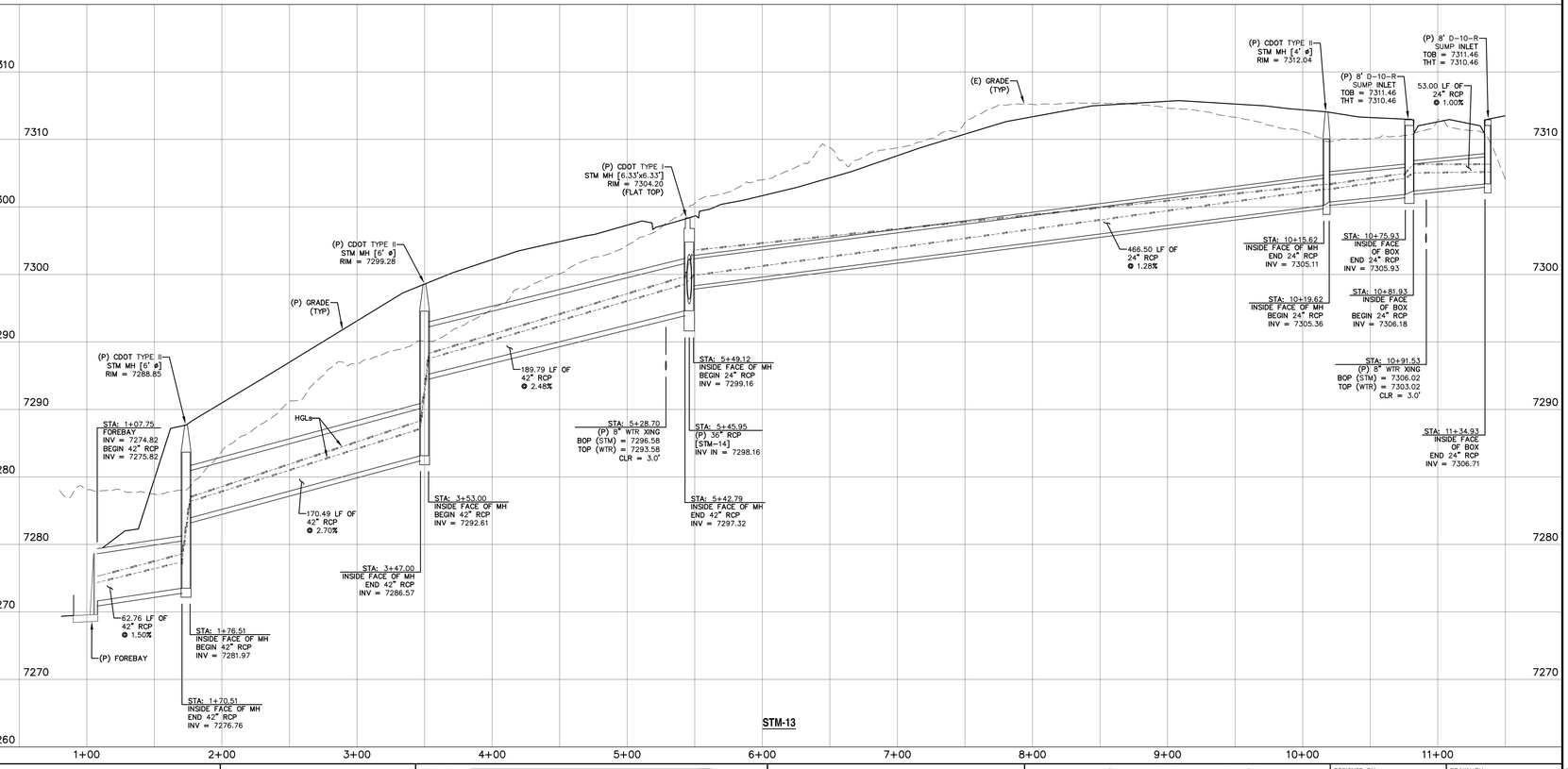
1. WATER TIGHT SEAL IS REQUIRED WHEN THE 100-YEAR HGL IS OUTSIDE OF THE PIPES.

0 50 100
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

NOTE: REFER TO SWMM MODEL FOR STORM PIPE HYDRAULICS RESULTS.



STM-11



STM-13

REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	11/04/25
2	ADDRESS AGENCY COMMENTS	12/31/25
3	ADDRESS AGENCY COMMENTS	04/08/26
4	ADDRESS AGENCY COMMENTS	05/11/26

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PREPARED FOR:
MONUMENT RIDGE EAST, LLC
5055 LIST DRIVE
COLORADO SPRINGS, CO 80919

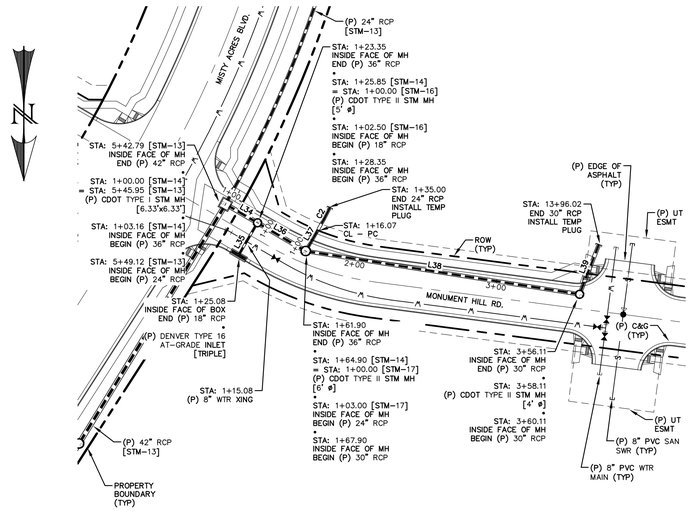
PREPARED BY:
RAYMOND
NOT FOR CONSTRUCTION

PRC ENGINEERING
1685 W. UINTAH STREET, SUITE 114
COLORADO SPRINGS, CO 80904
(719) 291-2744

MONUMENT HILL EAST FILING NO. 1
STORM SEWER PLAN & PROFILES

DESIGNED BY: MGP	DRAWN BY: MGP
SCALE: 1" = 50'	DATE: 04/08/25
JOB NUMBER: 24-001	SHEET: 23 OF 29

C:\Projects\24-001 MPE\Civil_SDs\PH\24-001-23-Sht-...Sht-11 - 13 - Sht... Monday, May 11, 2026 5:06:47 PM ... Michael Pine



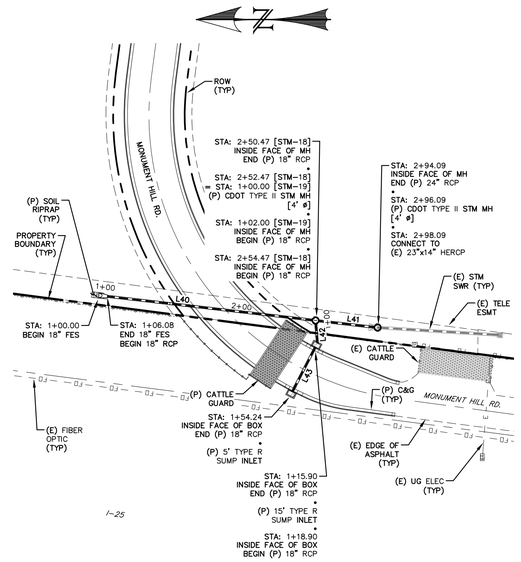
STM-14 STA: 1+00 ~ 4+25 **STM-16** STA: 1+00 ~ 1+40 **STM-17** STA: 1+00 ~ 1+40

LINE TABLE – STM		
LINE	BEARING	DISTANCE
L34	N59° 38' 45"W	20.19
L35	N30° 14' 24"E	22.58
L36	N59° 38' 45"W	33.55
L37	S30° 14' 24"W	13.07
L38	N81° 01' 25"W	188.21
L39	S21° 13' 45"W	34.91
L40	S6° 36' 29"W	144.39
L41	S6° 36' 29"W	39.62
L42	S85° 21' 29"W	13.90
L43	N62° 41' 11"W	35.34

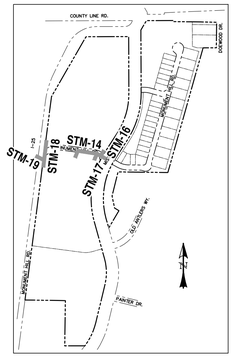
CURVE TABLE – STM			
CURVE	DELTA	RADIUS	LENGTH
C2	4°10'15"	260.00	18.93

0 50 100

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

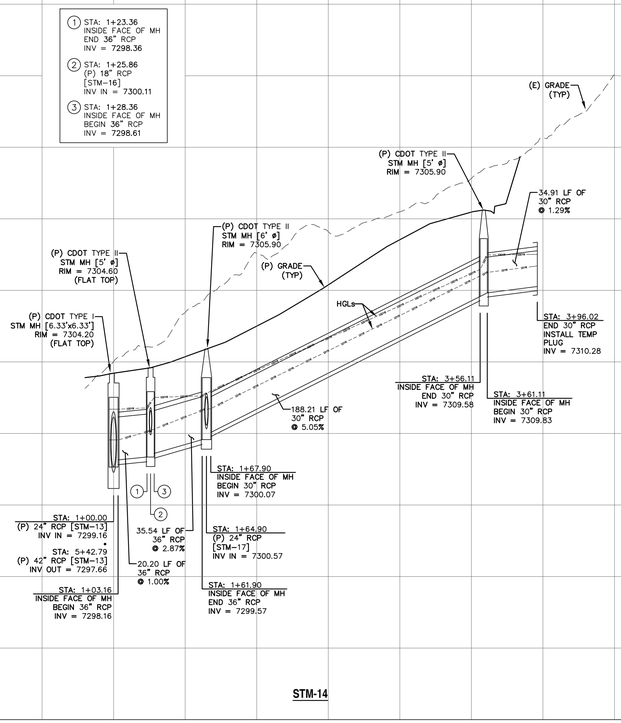


STM-18 STA: 1+00 ~ 3+25 **STM-19** STA: 1+00 ~ 1+75



LOCATION MAP
SCALE: N.T.S.

NOTE:
1. WATER TIGHT SEAL IS REQUIRED WHEN THE 100-YEAR HGL IS OUTSIDE OF THE PIPES.



REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	11/04/25
2	ADDRESS AGENCY COMMENTS	12/31/25
3	ADDRESS AGENCY COMMENTS	04/08/26
4	ADDRESS AGENCY COMMENTS	05/11/26

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PREPARED FOR:
MONUMENT RIDGE EAST, LLC
5055 LIST DRIVE
COLORADO SPRINGS, CO 80919

PREPARED
RAYMO
NOT FOR CONSTRUCTION

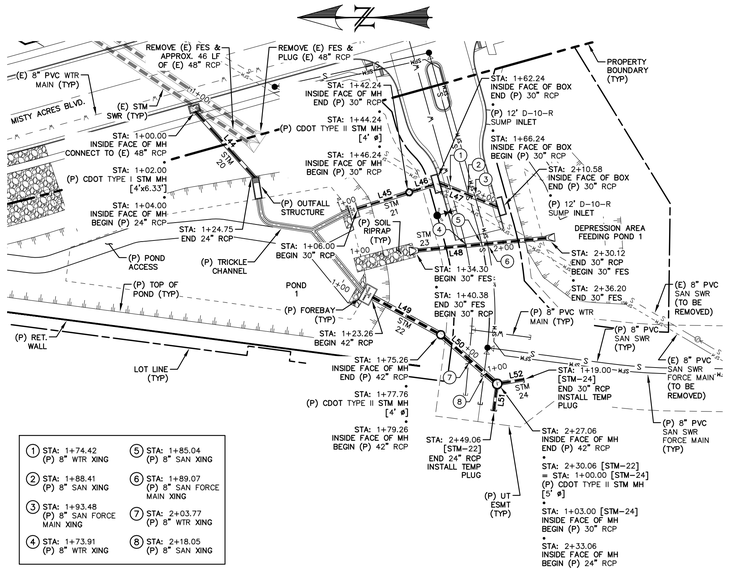
PRC ENGINEERING
1685 W. UINTAH STREET, SUITE 114
COLORADO SPRINGS, CO 80904
(719) 291-2744

MONUMENT HILL EAST FILING NO. 1
STORM SEWER PLAN & PROFILES

DESIGNED BY: MGP	DRAWN BY: MGP
SCALE: 1" = 50'	DATE: 04/08/25
JOB NUMBER: 24-001	SHEET: 24 OF 29

D:\Projects\24-001 MHE\Dwg_CD\[PVC]24-001 PSs - Sht=14 - W = 17 - H = 19 - Sht - Monday, May 11, 2026 5:59:14 PM - Michael Pitts

D:\Projects\24-001 MHE\Dwg_CD\PVC\24-001 PSs.dwg



LINE TABLE – STM		
LINE	BEARING	DISTANCE
L44	S48° 02' 38"W	62.72
L45	S17° 34' 13"E	36.24
L46	S17° 34' 13"E	16.00
L47	S22° 18' 28"W	44.34
L48	S5° 27' 45"E	89.75
L49	S28° 49' 40"W	51.99
L50	S41° 04' 56"W	46.80
L51	N82° 33' 30"W	16.00
L52	S10° 10' 12"E	16.00

1. STA: 1+74.42 (P) 8" WTR XING
2. STA: 1+88.41 (P) 8" SAN XING
3. STA: 1+93.48 (P) 8" SAN FORCE MAIN XING
4. STA: 1+73.91 (P) 8" WTR XING
5. STA: 1+85.04 (P) 8" SAN XING
6. STA: 1+89.07 (P) 8" SAN FORCE MAIN XING
7. STA: 2+03.77 (P) 8" WTR XING
8. STA: 2+18.05 (P) 8" SAN XING

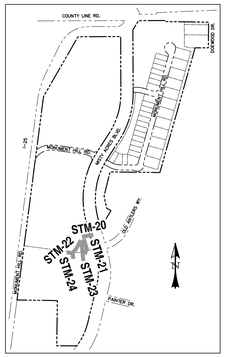
STM-20 STA: 1+00 ~ 1+50

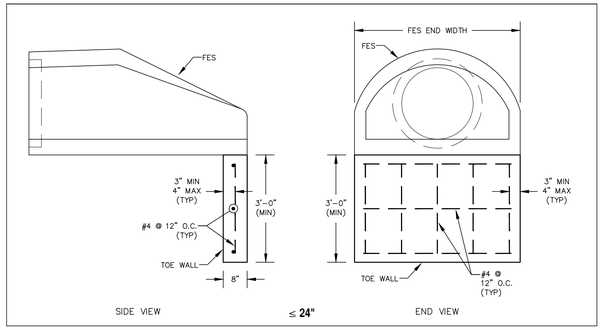
STM-21 STA: 1+00 ~ 2+25

STM-22 STA: 1+00 ~ 2+50

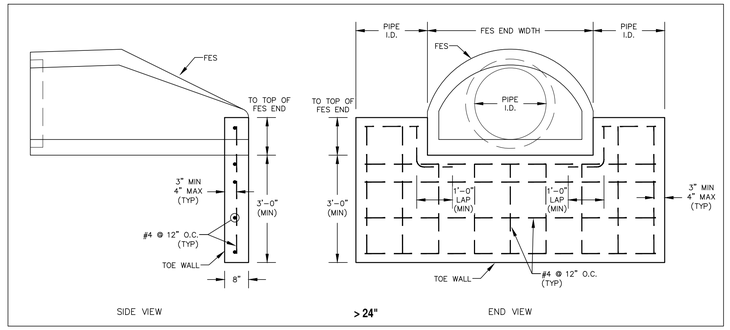
STM-23 STA: 1+00 ~ 2+50

STM-24 STA: 1+00 ~ 1+50

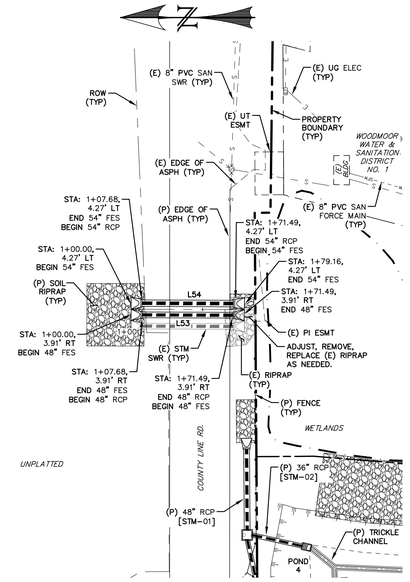




FES TOE WALL DETAIL
SCALE: N.T.S.

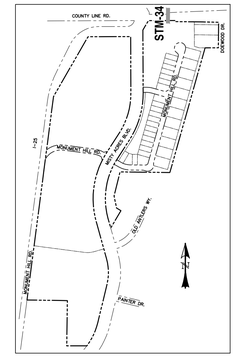


FES TOE WALL DETAIL
SCALE: N.T.S.



STM-36
STA: 1+00 ~ 1+80

LINE TABLE – STM		
LINE	BEARING	DISTANCE
L53	S0° 13' 25"W	63.82
L54	S0° 13' 25"W	63.82



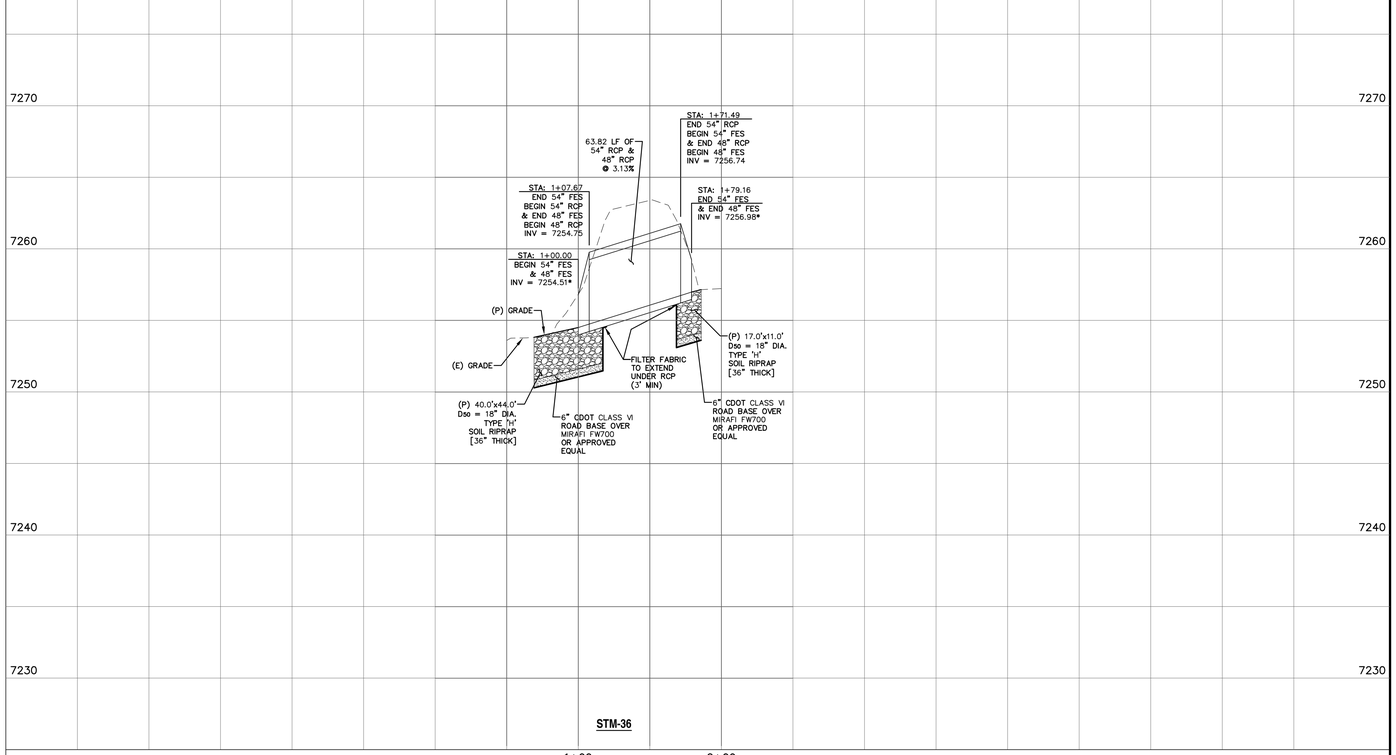
LOCATION MAP
SCALE: N.T.S.

NOTE:
1. WATER TIGHT SEAL IS REQUIRED WHEN THE 100-YEAR HGL IS OUTSIDE OF THE PIPES.

* INVERT TO MATCH EXISTING 48" FES. VERIFY PRIOR TO CONSTRUCTION.

0 50 100
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

NOTE: REFER TO SWMM MODEL FOR STORM PIPE HYDRAULICS RESULTS.



STM-36

REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	11/04/25
2	ADDRESS AGENCY COMMENTS	12/31/25
3	ADDRESS AGENCY COMMENTS	04/08/26
4	ADDRESS AGENCY COMMENTS	05/11/26

811 Know what's below. Call 72 hours before you dig.
For more details visit: www.call811.com

PREPARED FOR:
MONUMENT RIDGE EAST, LLC
5055 LIST DRIVE
COLORADO SPRINGS, CO 80919

PREPARED
RAYMO

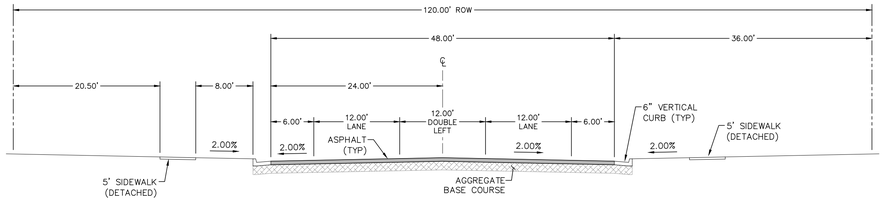
NOT FOR CONSTRUCTION

PRC ENGINEERING
1685 W. UINTAH STREET, SUITE 114
COLORADO SPRINGS, CO 80904
(719) 291-2744

MONUMENT HILL EAST
FILING NO. 1
STORM SEWER
PLAN & PROFILES

DESIGNED BY: MGP	DRAWN BY: MGP
SCALE: 1" = 50'	DATE: 04/08/25
JOB NUMBER: 24-001	SHEET: 26 OF 29

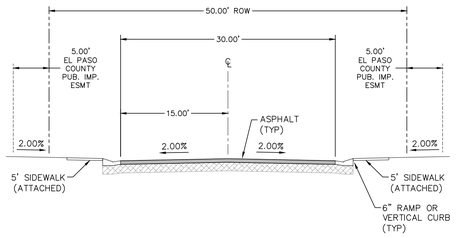
J:\Projects\24-001 MHE\Dwg_SDs\PH1\24-001-SDs-28-Stm - Stm_36 - Monday, May 11, 2026 3:10:23 PM - Michael Pino



TYPICAL SECTION - NON-RESIDENTIAL COLLECTOR (MODIFIED)
SCALE: N.T.S.

ROADWAY DESIGN PARAMETERS				
DESIGN SPEED	30 MPH		MIN CL RADIUS	565'
POSTED SPEED	25 MPH		MIN K VALUE CREST	19
MAX ADT	10,000		MIN K VALUE SAG	37
DESIGN VEHICLE	WB-50		MIN/MAX GRADE	0.5% / 8.0%

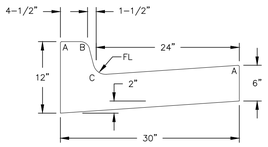
(MISTY ACRES BOULEVARD)



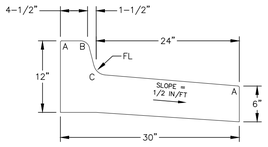
TYPICAL SECTION - URBAN LOCAL
SCALE: N.T.S.

ROADWAY DESIGN PARAMETERS				
DESIGN SPEED	25 MPH		MIN CL RADIUS	200'
POSTED SPEED	25 MPH		MIN K VALUE CREST	12
MAX ADT	3,000		MIN K VALUE SAG	26
DESIGN VEHICLE	WB-50		MIN/MAX GRADE	0.5% / 8.0%

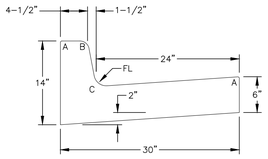
(MONUMENT HILL ROAD / SNOWY TOP DRIVE / OLD ANTLERS ROAD)



TYPE A
VERTICAL CURB & GUTTER
SCALE: N.T.S.

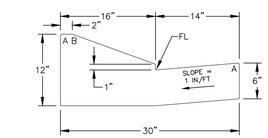


TYPE A* [SPILL]
VERTICAL CURB & GUTTER
SCALE: N.T.S.

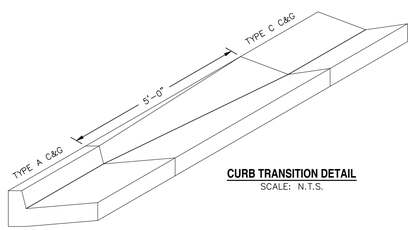


TYPE A1 [8"]
VERTICAL CURB & GUTTER
SCALE: N.T.S.

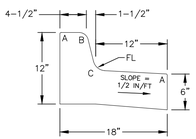
RADII LEGEND:
A = 1/8" TO 1/4"
B = 1-1/2"
C = 1-1/2" TO 2"
D = 1/2"



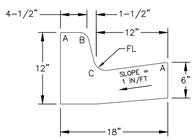
TYPE C - OPTIONAL
RAMP CURB & GUTTER
SCALE: N.T.S.



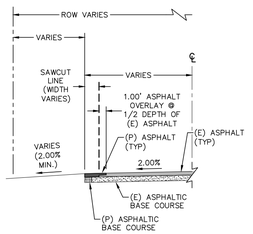
CURB TRANSITION DETAIL
SCALE: N.T.S.



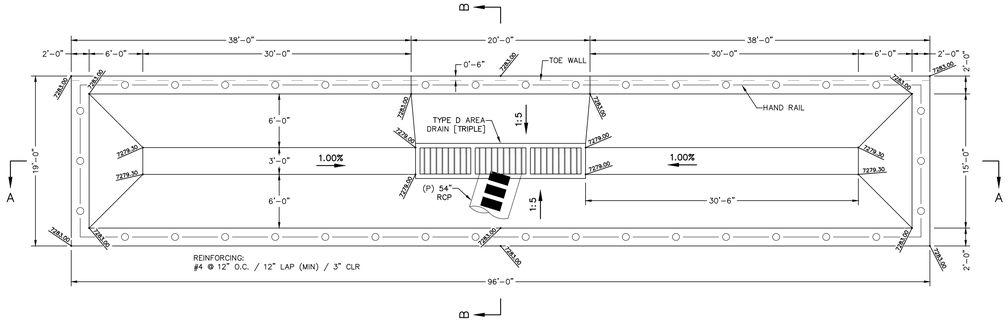
TYPE B
MEDIAN CURB & GUTTER
SCALE: N.T.S.



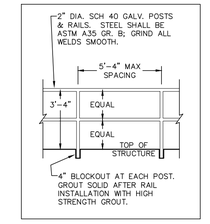
TYPE B* [CARRY]
MEDIAN CURB & GUTTER
SCALE: N.T.S.



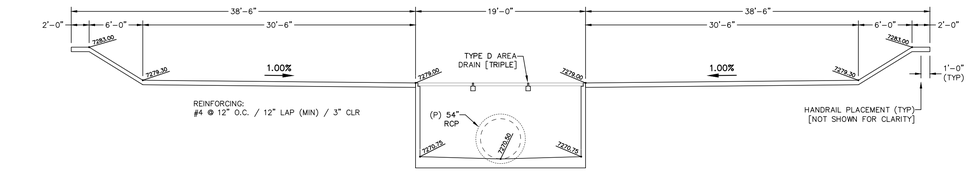
TYPICAL SECTION - COUNTY LINE ROAD WIDENING
SCALE: N.T.S.



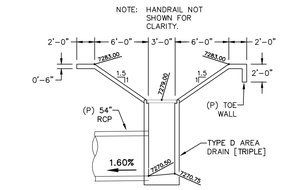
PLAN VIEW



HANDRAIL DETAIL
SCALE: N.T.S.

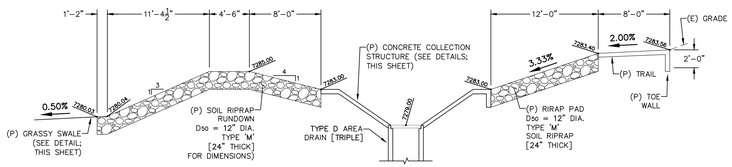


SECTION A-A

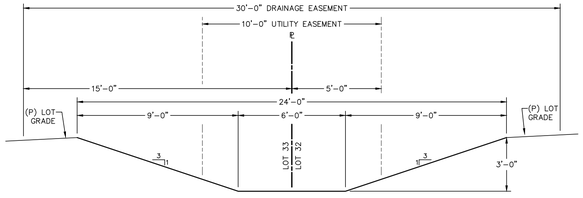


SECTION B-B

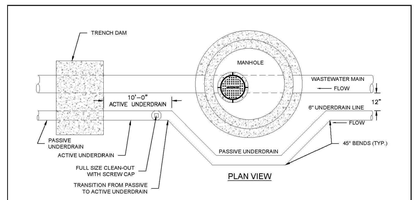
CONCRETE COLLECTION STRUCTURE DETAILS



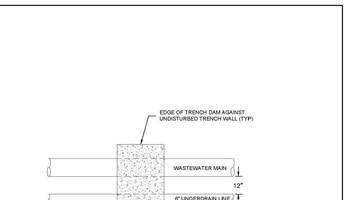
CONCRETE COLLECTION STRUCTURE ADJACENT RIPRAP DETAIL - PROFILE



SECTION - GRASSY SWALE



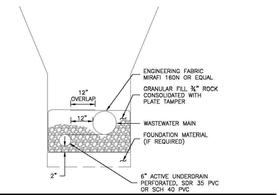
Colorado Springs Utilities	PASSIVE GROUNDWATER UNDERDRAIN SCHEMATIC	C6-1 DATED 5/2015



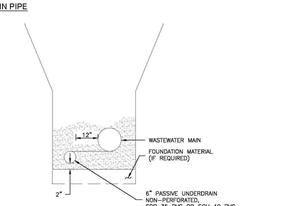
NOTES:
1. TRENCH DAMS ARE REQUIRED AT THE TRANSITION FROM ACTIVE UNDERDRAINS TO PASSIVE UNDERDRAINS.

Colorado Springs Utilities	UNDERDRAIN TRENCH DAM	C6-2 DATED 5/2015

ACTIVE UNDERDRAIN PIPE



PASSIVE UNDERDRAIN PIPE



NOTES:
1. ACTIVE UNDERDRAIN PIPE REQUIRED FOR 10' DOWNSTREAM OF EACH MANHOLE WHERE UNDERDRAINS ARE INSTALLED.

Colorado Springs Utilities	PREFERRED COMMON TRENCH UNDERDRAIN WITH WASTEWATER MAIN	C6-3 DATED 5/2015

UNDERDRAIN DETAILS
REF: COLORADO SPRINGS UTILITIES 2026 WASTEWATER LINE EXTENSION AND SERVICE STANDARDS

REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	11/04/25
2	ADDRESS AGENCY COMMENTS	12/31/25
3	ADDRESS AGENCY COMMENTS	04/08/26
4	ADDRESS AGENCY COMMENTS	05/11/26

Know what's below. Call 72 hours before you dig.
For more details visit: www.call811.com

PREPARED FOR:
MONUMENT RIDGE EAST, LLC
5055 LIST DRIVE
COLORADO SPRINGS, CO 80919

PREPARED BY:
RAYMOND

NOT FOR CONSTRUCTION

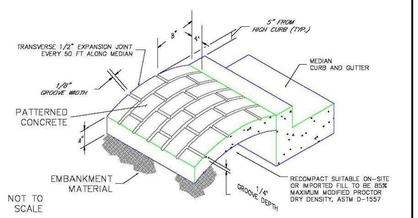
PRC ENGINEERING
1685 W. UINTAH STREET, SUITE 114
COLORADO SPRINGS, CO 80904
(719) 291-2744

MONUMENT HILL EAST
FILING NO. 1

DETAILS

SCALE: N/A
DRAWN BY: MGP
DATE: 04/08/25
JOB NUMBER: 24-001
SHEET: 27 OF 29

D:\Projects\24-001 MHE\Dwg_CD\[24-001-CD-27-Details - Sheet1].dwg, 5/11/2026 3:10:18 PM, Michael Pitts



NOTES:

A) The median paving shall be constructed with 4 inch thick, integrally colored concrete, embossed with a running bond 4" x 8" brick pattern as shown.

B) Install 1/2" x 4" expansion material at median noses, fixed objects, and at transverse joints at 50 ft. intervals (maximum) along the median.

C) The color additive shall be an approved commercially pure or synthetic mineral pigment, factory formulated and packaged in cubic yard dosage increments. The mixture shall be "Chromix" as manufactured by L.M. Scofield Company, "Davis Colors" as manufactured by Davis Color Company, Pigment No. 678, 5 lbs/sack, or an approved equal.

D) Patterned concrete to be colored L.M. Scofield Company "Santa Barbara Brown, C-35", Davis Color Company, Pigment No. 678, 5 lbs/sack, or an approved equal.

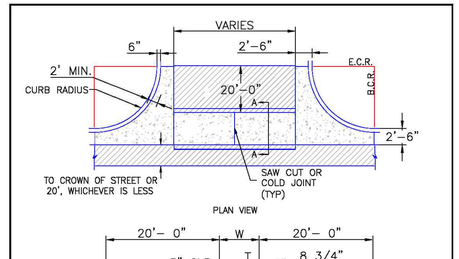
E) The Matching curing compound shall be a blend of waxes and pigments in a solvent emulsion base and conform to the requirements of ASTM C-309. The curing compound shall be "Lithoprome Colorwax" as manufactured by L.M. Scofield Company, Davis Color-Seal, as manufactured by Davis Color Company, or approved equal.

F) The concrete mix design shall conform to the requirements of the color admixture manufacturer and shall meet CDOT Class B concrete requirements, unless otherwise approved.

G) For weed control prior to median paving, apply a pre-emergent herbicide to median subgrade area per manufacturer's specifications for paving under Barrier 50 label (pbi Gordon). Trifluralin is labeled for use under asphalt under the Trefan 4EC label (Elanco).

SCALE: NOT TO SCALE

DATE APPROVED: 7/9/09	Patterned Concrete Median Paving Standard Drawing	EL PASO COUNTY DEPARTMENT OF TRANSPORTATION
André P. Brackin, DEPARTMENT OF TRANSPORTATION	REVISION DATE: 1/18/11 / FILE NAME: SD_2-21	



NOTES

1. W = WIDTH SALL BE 6' FOR LOCAL, 8' FOR COLLECTORS, AND 10' FOR ARTERIAL ROADS.

2. T = SQUARED-OFF RETURN TO BE POURED MONOLITHIC 8" PCC OR 9" FOR COLLECTORS MINIMUM WITH 6x6 – 4.4 W.W.F. OR #4 @ 18 E.W.

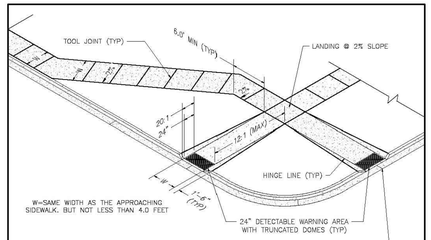
2. ▨ = 3" MINIMUM ASPHALT DEPTH (2 LIFTS).

3. DESIGN TO SPECIFY ELEVATIONS AT PI AND PCR

DRAFT

SCALE: NOT TO SCALE

DATE APPROVED: / DEPARTMENT OF TRANSPORTATION	Typical Cross Pan Layout Detail Standard Drawing	EL PASO COUNTY DEPARTMENT OF TRANSPORTATION
	REVISION DATE: 11/10/04 / FILE NAME: SD_2-26	



PEDESTRIAN RAMP NOTES

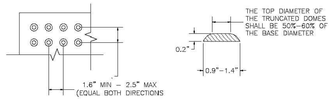
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT ENGINEERING CRITERIA MANUAL AND ADA REQUIREMENTS.
2. CONTRACTOR TO NOTIFY ENGINEERING DIVISION INSPECTION STAFF 48 HOURS PRIOR TO CONCRETE PLACEMENT.
3. PEDESTRIAN RAMP CONSTRUCTION SHALL BE A MINIMUM 3000 PSI CONCRETE, MINIMUM 4" THICK, NON-COLORED, NON-SCORED, COARSE BROOM FINISH.
4. RAMP LOCATION AND LENGTH MAY REQUIRE MODIFICATION TO MAINTAIN THE 12:1 MAXIMUM RUNNING RAMP SLOPE AND 20:1 DETECTABLE WARNING AREA DUE TO STREET INTERSECTION GRADES AND/OR ALIGNMENTS.
5. DETECTABLE WARNING AREA SHALL START A MINIMUM OF 8" BUT NOT MORE THAN 8" FROM THE FLOWLINE OF THE CURB AT ANY POINT.
6. DETECTABLE WARNING AREA SHALL BE PREFABRICATED REDDISH INTEGRALLY COLORED TRUNCATED-DOME SURFACED THERMOPLASTIC.
7. THE DETECTABLE WARNING AREA SHALL BE 24" IN LENGTH AND THE FULL WIDTH OF THE RAMP.
8. RAMP WIDTH REQUIRED IS SAME AS APPROACHING SIDEWALK; 4' MINIMUM.
9. ALL RAMPS WILL BE PERPENDICULAR TO TRAFFIC WITH THE EXCEPTION OF MID-BLOCK OR TERMINAL RAMPS WHICH MAY BE PARALLEL, SUBJECT TO APPROVAL.
10. AVOID PLACING DRAINAGE STRUCTURES, TRAFFIC SIGNAL/SIGNAGE, UTILITIES/JUNCTION BOXES, OR OTHER OBSTRUCTIONS WITHIN PROPOSED RAMP AREAS.

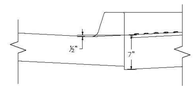
GENERAL NOTES

1. WHERE THE 1'-6" FLARED SIDE(S) OF A PERPENDICULAR CURB RAMP IS (ARE) CONTIGUOUS WITH A PEDESTRIAN OR HARD SURFACE AREA, THE MAXIMUM FLARE SLOPE SHALL NOT EXCEED 10:1.
2. PEDESTRIAN WALKWAY AND/OR LOCATION OF EXISTING OR FUTURE PEDESTRIAN RAMPS ON OPPOSITE CORNERS SHALL BE REVIEWED BEFORE CONSTRUCTING NEW RAMPS.
3. AT MARKED PEDESTRIAN CROSSINGS, THE BOTTOM OF THE RAMPS, EXCLUSIVE OF THE FLARE SIDES, SHALL BE TOTALLY CONTAINED WITHIN THE MARKINGS.

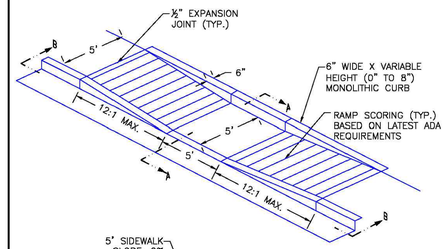
DATE APPROVED: 1/1/08 / John A. McCarty, DEPARTMENT OF TRANSPORTATION	Pedestrian Intersection Ramp Standard Drawing	EL PASO COUNTY DEPARTMENT OF TRANSPORTATION
	REVISION DATE: 7/9/07 / FILE NAME: SD_2-41	

TRUNCATED DOME DETAILS





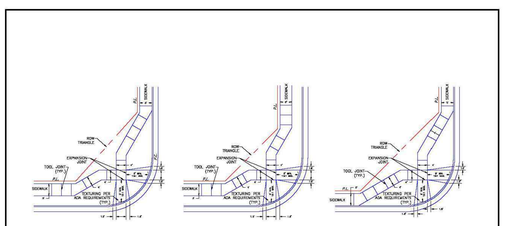
DATE APPROVED: 1/1/08 / John A. McCarty, DEPARTMENT OF TRANSPORTATION	Truncated Dome Details Standard Drawing	EL PASO COUNTY DEPARTMENT OF TRANSPORTATION
	REVISION DATE: 7/09/07 / FILE NAME: SD_2-42	



DRAFT

SCALE: NOT TO SCALE

DATE APPROVED: / DEPARTMENT OF TRANSPORTATION	Parallel Pedestrian Ramp Detail Standard Drawing	EL PASO COUNTY DEPARTMENT OF TRANSPORTATION
	REVISION DATE: 11/10/04 / FILE NAME: SD_2-50	



SCALE: NOT TO SCALE

DATE APPROVED: 9/16/10 / André P. Brackin, DEPARTMENT OF TRANSPORTATION	Pedestrian Intersection Ramp Detail Standard Drawing	EL PASO COUNTY DEPARTMENT OF TRANSPORTATION
	REVISION DATE: 11/10/04 / FILE NAME: SD_2-40	

PIPE ID	BW
48" AND SMALLER	8'-4"
54"	9'-10"
60" AND LARGER	OD + 16"

NOTES

1. TYPE I MANHOLE SHALL BE USED WHEN APPROPRIATE AND TYPICALLY FOR PIPE SIZES LARGER THAN 30 INCHES I.D..
2. VIEW AND DETAILS SHOWN ARE TYPICAL FOR STRAIGHT THROUGH DESIGN ONLY. DESIGN ENGINEER SHALL DETERMINE MANHOLE BASE CONFIGURATION AND DIMENSIONS FOR PARTICULAR PIPE SIZES AND ALIGNMENT.
3. EITHER LADDER OR STEPS SHALL BE INSTALLED WHEN MANHOLE DEPTH EXCEEDS 30". LOWEST STEP SHALL BE BE A MAXIMUM OF 16" ABOVE THE FLOOR.
4. FLOOR OF THE MANHOLE SHALL BE TROWELLED TO A SMOOTH, HARD SURFACE AND SHALL SLOPE TOWARDS THE OUTLET (8:1 MAX., ½" PER FT. MIN). FLOOR SHALL BE SHAPED AND CHANNELED; SEE SD_3-2 FOR TYPICAL CHANNEL DETAILS.

SCALE: NOT TO SCALE

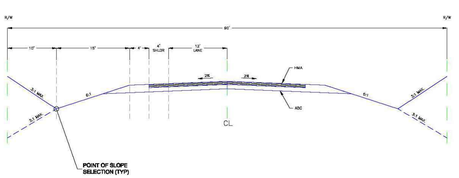
DATE APPROVED: 7/9/09 / André Brackin, DEPARTMENT OF TRANSPORTATION	Storm Sewer Manhole Detail Type I Standard Drawing	EL PASO COUNTY DEPARTMENT OF TRANSPORTATION
	REVISION DATE: 7/9/09 / FILE NAME: SD_3-1	

NOTES

1. TYPE II MANHOLES SHALL BE USED WHEN APPROPRIATE AND TYPICALLY WHEN THE PIPE SIZES ARE 30" OR LESS INSIDE DIAMETER.
2. VIEW AND DETAILS ARE TYPICAL. DESIGN ENGINEER SHALL DETERMINE MANHOLE BASE CONFIGURATION AND DIMENSIONS FOR PARTICULAR PIPE SIZES AND ALIGNMENT.
3. EITHER LADDER OF STEPS SHALL BE INSTALLED WHEN MANHOLE DEPTH EXCEEDS 30". STEPS IN BASE SHALL BE INSTALLED IN "TOE POCKETS" (SEE DETAIL THIS SHEET). LOWEST STEP SHALL BE A MAXIMUM OF 16" ABOVE THE FLOOR.
4. PIPES SHALL BE TRIMMED TO FINAL SHAPE AND SET BEFORE MANHOLE IS POURED.
5. BENCH SHALL BE SLOPED TOWARD CENTER OF MANHOLE BASE (4:1 MAX., ½" PER FOOT. MIN.).
6. FLOOR OF MANHOLE SHALL BE TROWELLED TO A SMOOTH, HARD SURFACE AND SHALL SLOPE TOWARDS THE OUTLET (8:1., ½" PER FT. MIN.) . FLOOR SHALL BE SHAPED AND CHANNELED; SEE DETAILS THIS SHEET.

SCALE: NOT TO SCALE

DATE APPROVED: / André P. Brackin, DEPARTMENT OF TRANSPORTATION	Storm Sewer Manhole Detail Type II Standard Drawing	EL PASO COUNTY DEPARTMENT OF TRANSPORTATION
	REVISION DATE: 11/10/04 / FILE NAME: SD_3-2	



Roadway Design Parameters
Design Speed: 50 mph
Posted Speed: 45 mph
Maximum ADT: 3,000
Design Vehicle: WB-67

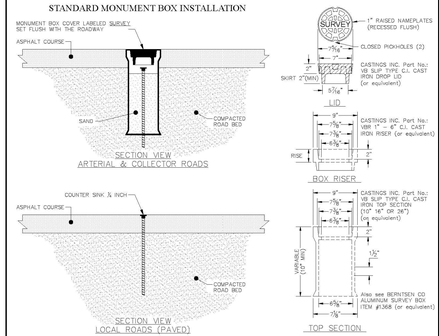
SCALE: NOT TO SCALE

DATE APPROVED: 12/31/05 / John A. McCarty, DEPARTMENT OF TRANSPORTATION	Rural Major Collector Roadway Standard Cross Section	EL PASO COUNTY DEPARTMENT OF TRANSPORTATION
	REVISION DATE: 12/22/05 / FILE NAME: SD_2-13	

DETAIL A

EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS
TYPICAL ROADWAY MONUMENT INSTALLATION

STANDARD MONUMENT BOX INSTALLATION



Monumentation of Roadways

STANDARD MONUMENT BOX

Aliquot Corners: A metallic pipe or rod possessing a magnetic field and having a minimum outside diameter of ⅝ inch (#6 Rebar), a minimum length of 30 inches, and a two-inch minimum diameter durable metallic cap properly marked with PLS No., 3¼ inch cap preferred. (Ref: Bylaws and Rules of The Colorado State Board of Licensure for Architects, Professional Engineers and Professional Land Surveyors, paragraph 6.4) If located within a paved road it is to be installed in a load-bearing survey monument box (valve box).

Arterial & Collector Roads: A metallic pipe or rod possessing a magnetic field and having a minimum outside diameter of ½ inch (#5 Rebar), a minimum length of 18 inches, and a two-inch minimum diameter durable metallic cap marked with PLS No. (A 2¾ inch cap is preferred.) If located within a paved road it is to be installed in a load-bearing survey monument box (valve box). All centerline intersections, PI's, PC's & PT's to be monumented.

Local Roads (Paved): A metallic pipe or rod possessing a magnetic field and having a minimum outside diameter of ½ inch (#5 Rebar), a minimum length of 18 inches, and a two-inch minimum diameter durable metallic cap marked with PLS No. (A 2¾ inch cap is preferred.) All centerline intersections, PI's, PC's & PT's are to be monumented and countersunk at least ¼ inch below the roadway surface.

Gravel Roads: Same as Local Roads with corners which fall in the roadbed installed minimum 8 inches below the roadway surface. All centerline intersections, PI's, PC's & PT's to be monumented.

Permanent Easements for the benefit of El Paso County: A metallic pipe or rod possessing a magnetic field and having a minimum outside diameter of ⅛ inch (#4 Rebar), a minimum length of 18 inches, and a 1¼ inch minimum diameter durable metallic cap marked with PLS No.

SCALE: NONE DATE: 01/23/24 DRAWING: Monument Box Detail.dwg BY: SDP	EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS

REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	11/04/25
2	ADDRESS AGENCY COMMENTS	12/31/25
3	ADDRESS AGENCY COMMENTS	04/08/26
4	ADDRESS AGENCY COMMENTS	05/11/26

811 Know what's below. Call 72 hours before you dig. For more details visit: www.call811.com

PREPARED FOR:
MONUMENT RIDGE EAST, LLC
5055 LIST DRIVE
COLORADO SPRINGS, CO 80919

PREPARED
NOT FOR CONSTRUCTION
RAYMO

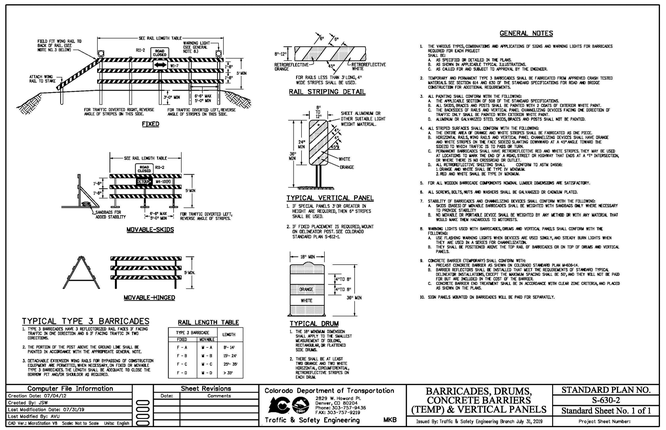
PRC ENGINEERING
1685 W. UINTAH STREET, SUITE 114
COLORADO SPRINGS, CO 80904
(719) 291-2744

MONUMENT HILL EAST FILING NO. 1

DETAILS

SCALE: N/A	DRAWN BY: MGP
JOB NUMBER: 24-001	DATE: 04/08/25
	SHEET: 28 OF 29

P:\Projects\24-001 MHE\Dwg_CAD\PLAN\24-001-TDs-DR-Details - Details - Monday, May 11, 2026 3:11:28 PM - Michael Pitts
P:\Projects\24-001 MHE\Dwg_CAD\PLAN\24-001-DETAILS.dwg



TYPICAL TYPE 3 BARRICADES

1. TYPE 3 BARRICADES HAVE 3 REFLECTORIZED RAIL FACES IF FACING TRAFFIC FROM ONE DIRECTION AND 6 IF FACING TRAFFIC IN TWO DIRECTIONS.
2. THE PORTION OF THE POST ABOVE THE GROUND LINE SHALL BE PAINTED IN ACCORDANCE WITH THE APPROPRIATE COLORS, NOTE.
3. DETACHABLE EXTENSION WING RAILS FOR DIVERSIONS OF CONSTRUCTION EQUIPMENT ARE PERMITTED, WHEN NECESSARY ON CLOSED OR MOVABLE TYPE 3 BARRICADES. THE LENGTH SHALL BE ADEQUATE TO CLOSE THE SIDEWALK FIT MEANS SHOULDER IS REQUIRED.

RAIL LENGTH TABLE	
TYPE 3 BARRICADE WIDTH	LENGTH
F = A	A = 8'-14"
F = B	B = 9
F = C	C = 15
F = D	D = 21'
	> 30'

1. 2" SPECIAL PANELS FOR USE IN HEIGHT ARE REQUIRED, THEN 6" STOCKS SHALL BE USED.
2. 2" FIXED PLACEMENT IS REQUIRED, MOUNT ON DELINEATOR POST SEE COLORED STANDARD PLAN S-627-1.
1. THE OF ARROWS ON SHOWN SHALL APPLY TO THE QUALITY MEASUREMENT OF SIGNAL, ARROWS AND FLATTENS SIDE DRUMS.
2. THERE SHALL BE AT LEAST TWO SIGNALS ARE THE WHITE HORIZONTAL, CONVENTIONAL, ORANGE AND THE WHITE ON EACH SIDE.

GENERAL NOTES

1. THE VARIOUS TYPES, COMBINATIONS AND APPLICATIONS OF SIGNS AND WARNING LIGHTS FOR BARRICADES SHALL BE AS SHOWN ON EACH PROJECT PLANS, OR AS
   A. AS SPECIFIED IN DETAILED IN THE PLANS.
   B. AS DIRECTED BY THE ENGINEER IN INSTALLATIONS.
   C. AS CALLED FOR AND SUBJECT TO APPROVAL BY THE ENGINEER.
2. TEMPORARY AND PERMANENT TYPE 3 BARRICADES SHALL BE FABRICATED FROM APPROVED GRADE TESTED MATERIALS SEE SECTION 614 AND 626 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ADDITIONAL REQUIREMENTS.
3. ALL PORTIONS SHALL CONFORM WITH ONE OF THE FOLLOWING:
   A. ALL WOOD MATERIALS SHALL CONFORM WITH THE STANDARD SPECIFICATIONS
   B. ALL DIMENSIONS AND POSTS SHALL BE PAINTED WITH 2 COATS OF EXTERIOR WHITE PAINT.
   C. THE PANELS SHALL BE PAINTED WITH ALTERNATE STRIPES RUNNING DOWN THE DIRECTION OF TRAFFIC AT AN ANGLE OF 45° WITH THE HORIZONTAL.
   D. ALUMINUM OR GALVANIZED STEEL SHOES, BRACES AND POSTS SHALL NOT BE PAINTED.
4. ALL STRIPES AND SPACES SHALL CONFORM WITH THE FOLLOWING:
   A. THE CENTRE AREA OF ORANGE AND WHITE STRIPES SHALL BE FABRICATED AS ONE PIECE.
   B. ALL STRIPES SHALL BE 6" WIDE AND SLOPE AT AN ANGLE OF 45° DOWN TOWARD THE ORANGE AND WHITE STRIPES ON THE SIDE THAT ASSISTS TRAFFIC CONVERGING AT A DIFFERENT STRIPES THAT EXCEED 12 INCHES TRAFFIC IN 12 FEET OR FLOW.
   C. WHERE BARRICADES ARE USED FOR TWO DIRECTIONAL TRAFFIC AND WHITE STRIPES, THEY MAY BE USED AT LOCATIONS TO WARN THE USE OF A ROAD, STREET OR HIGHWAY THAT ENDS AT A "T" INTERSECTION, OR WHERE THERE IS NO CROSSROAD OR OUTLET.
   D. WHERE BARRICADES ARE USED TO DIRECT TRAFFIC TO ACTIVE CHOKE, LIGHTED AND WHITE SHALL BE TYPE TO WINDOWS.
   E. RED AND WHITE SHALL BE TYPE IN WINDOWS.
5. FOR ALL WOODEN BARRICADE COMPONENTS NOMINAL LUMBER DIMENSIONS ARE SATISFACTORY.
6. ALL SCREWS, BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED OR CHROMIUM PLATED.
7. STABILITY OF BARRICADES AND CHANNELIZING DEVICES SHALL CONFORM WITH THE FOLLOWING:
   A. ALL TYPE 3 BARRICADES AND BARRICADES SHALL BE MOUNTED WITH SANDBAGS ONLY WHERE NECESSARY TO PROVIDE STABILITY.
   B. NO WEIGHTED OR PORTABLE DEVICE SHALL BE MOUNTED BY ANY METHOD OR WITH ANY MATERIAL THAT WOULD MAKE THEM HAZARDOUS TO MOTORISTS.
8. WARNING LIGHTS USED WITH BARRICADES, DRUMS AND VERTICAL PANELS SHALL CONFORM WITH THE FOLLOWING:
   A. ON 2 FLASHING WARNING LIGHTS WITH DEVICES AND VIDEO SIGNALS, AND STEADY BURN LIGHTS WHEN THEY ARE USED IN A SERIES FOR CHANNELIZATION.
   B. SIGNALS SHALL BE POSITIONED AROUND THE TOP RAIL OF BARRICADES OR ON TOP OF DRUMS AND VERTICAL PANELS.
9. CONCRETE BARRIER COMPONENTS SHALL CONFORM WITH:
   A. PRECAST CONCRETE BARRIER AS SHOWN ON COLORADO STANDARD PLAN M-606-14.
   B. BARRIER REFLECTORS SHALL BE INSTALLED THAT MEET THE REQUIREMENTS OF STANDARD TYPICAL REFLECTORS AS SHOWN ON STANDARD PLAN M-606-14. THE REFLECTORS SHALL BE INCLUDED IN THE UNIT PRICE FOR CIP, NOT INCLUDED IN THE COST OF THE BARRIER.
   C. CONCRETE BARRIER FOR TREATMENT SHALL BE IN ACCORDANCE WITH CLEAR ZONE DIRECTIONS, NOT PLACED IN SHOWN ON THE PLANS.
10. SIGN PANELS MOUNTED ON BARRICADES WILL BE PAID FOR SEPARATELY.

Computer File Information	
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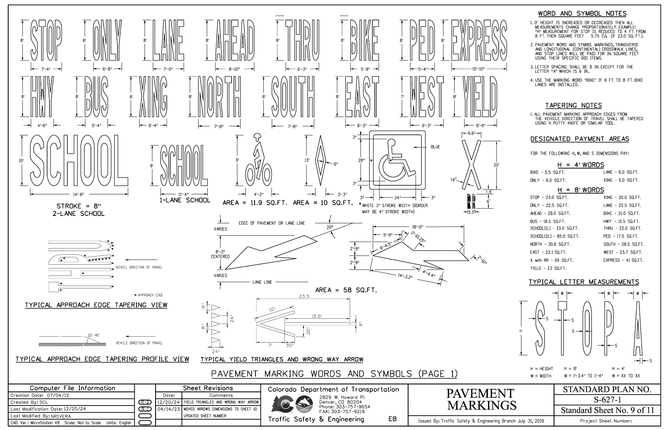
Sheet Revisions		
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BARRICADES, DRUMS, CONCRETE BARRIERS (TEMP) & VERTICAL PANELS

Issued By: Traffic & Safety Engineering Branch July 31, 2019

STANDARD PLAN NO.
S-630-2
Standard Sheet No. 1 of 1
Project Sheet Number:



PAVEMENT MARKING WORDS AND SYMBOLS (PAGE 1)

WORD AND SYMBOL NOTES

1. IF HEIGHT IS INCREASED OR DECREASED THEN ALL MEASUREMENTS CHANGE PROPORTIONALLY (EXAMPLE: IF 6' HIGH SQUARE FEET = 3.5 SQUARE FEET, 12' HIGH = 23.0 SQ.FT.).
2. PAVEMENT WORD AND SYMBOL MARKINGS, TRANSVERSE AND LONGITUDINAL (CONTINENTAL) CROSSWALK LINES, STOP LINES, AND YIELD LINES ARE IN SQUARE FEET USING THEIR SPECIFIC SIZE ITEMS.
3. LETTER SPACING SHALL BE 8 IN EXCEPT FOR THE LETTER 'M' WHICH IS 6 IN.
4. USE THE MARKING WORD "BIKE" IF 6 FT, TO 8 FT. BIKE LANES ARE INSTALLED.

TAPERING NOTES

1. ALL PAVEMENT MARKING APPROACH EDGES FROM THE ADVANCE DIRECTION OF TRAFFIC SHALL BE TAPERED USING A FIVE-TO-ONE RATE OF SHIFT OR MORE.

DESIGNATED PAYMENT AREAS

FOR THE FOLLOWING H, W, AND S DIMENSIONS PAY:

H = 4' WORDS

BIKE = 5.5 SQ.FT.	LANE = 6.0 SQ.FT.
ONLY = 6.0 SQ.FT.	XING = 5.0 SQ.FT.

H = 8' WORDS

STOP = 23.0 SQ.FT.	XING = 20.0 SQ.FT.
ONLY = 22.5 SQ.FT.	LANE = 22.5 SQ.FT.
AHEAD = 29.0 SQ.FT.	BIKE = 21.0 SQ.FT.
BUS = 18.5 SQ.FT.	HWY = 18.5 SQ.FT.
SCHOOL(L) = 33.0 SQ.FT.	THRU = 22.0 SQ.FT.
SCHOOL(S) = 80.0 SQ.FT.	PED = 17.5 SQ.FT.
NORTH = 30.6 SQ.FT.	SOUTH = 28.5 SQ.FT.
EAST = 22.1 SQ.FT.	WEST = 23.7 SQ.FT.
X with RR = 59 SQ.FT.	EXPRESS = 41 SQ.FT.
YIELD = 22 SQ.FT.	

TYPICAL LETTER MEASUREMENTS

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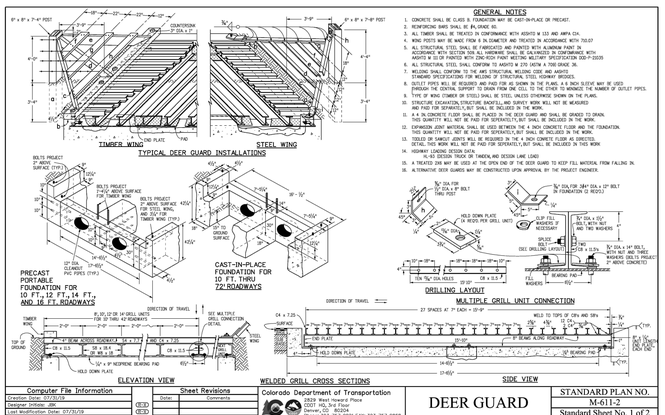
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12/20/24	YIELD TRIANGLES AND WRONG WAY ARROW
04/14/22	WORD WORKING CHANGING TO SHEET 10
UPDATED SHEET NUMBER	

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PAVEMENT MARKINGS

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STANDARD PLAN NO.
S-627-1
Standard Sheet No. 9 of 11
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DEER GUARD

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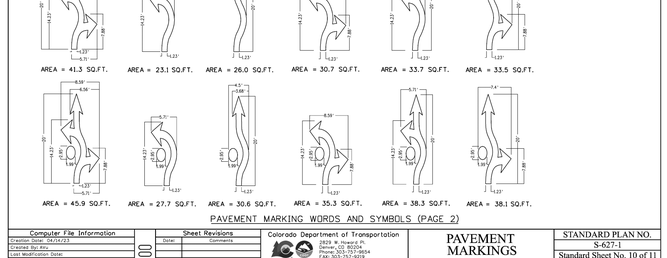
STANDARD PLAN NO.
M-611-2
Standard Sheet No. 1 of 2
Project Sheet Number:

GENERAL NOTES

1. CONCRETE SHALL BE CLASS B FOUNDATION MAY BE CAST-IN-PLACE OR PRECAST.
2. REINFORCING BARS SHALL BE #5 GRADE 60.
3. ALL TIMBER SHALL BE TREATED IN CONFORMANCE WITH AASHTO M 133 AND AWPA C14.
4. WING POSTS MAY BE MADE FROM 8 IN DIAMETER AND TREATED IN SECTION 710.07
5. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND PAINTED WITH ALUMINUM PAINT IN ACCORDANCE WITH SECTION 506 ALL HARDWARE SHALL BE GALVANIZED IN CONFORMANCE WITH AASHTO M 111 OR PAINTED WITH ZINC-RICH PAINT MEETING MILITARY SPECIFICATION DOD-P-21035
6. ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO M 270 GRADE A 709 GRADE 36.
7. WELDING SHALL CONFORM TO THE AWS STRUCTURAL WELDING CODE AND AASHTO.
8. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER IN THE EMPLOYMENT.
9. OUTLET PIPES WILL BE REQUIRED AND PAID FOR AS SHOWN ON THE PLANS. A 4 IN DIA SLEEVE MAY BE USED THROUGH THE CENTRAL SUPPORT TO DRAIN FROM ONE CELL TO THE OTHER TO MINIMIZE THE NUMBER OF OUTLET PIPES.
10. TYPE OF WING (TIMBER OR STEEL) SHALL BE STEEL UNLESS OTHERWISE SHOWN ON THE PLANS.
11. STRUCTURE EXCAVATION, STRUCTURE BACKFILL, AND SURVEY WORK WILL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.
12. A 4 IN CONCRETE FLOOR SHALL BE PLACED IN THE DEER GUARD AND SHALL BE SLOPED TO DRAIN. THIS QUANTITY WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.
13. EXPANSION JOINT MATERIAL SHALL BE USED BETWEEN EVERY 4 MAIN CONCRETE ITEMS IN THE FOUNDATION. EXPANSION JOINTS SHALL BE INCLUDED IN THE WORK AND WILL NOT BE MEASURED OR PAID FOR SEPARATELY.
14. TOOLED OR SAWCUT JOINTS WILL BE REQUIRED IN THE 4 INCH CONCRETE FLOOR AS DIRECTED. THIS QUANTITY WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THIS WORK
15. HIGHWAY LOADING DESIGN DATA:
    HL-93 DESIGN TRUCK OR TANDEM, AND DESIGN LANE LOAD
16. A TREATED 2X6 MAY BE USED AT THE OPEN END OF THE DEER GUARD TO KEEP FILL MATERIAL FROM FALLING IN.
17. ALTERNATIVE DEER GUARDS MAY BE CONSTRUCTED UPON APPROVAL BY THE PROJECT ENGINEER.

WORD AND SYMBOL NOTES

1. IF HEIGHT IS INCREASED OR DECREASED THEN ALL MEASUREMENTS CHANGE PROPORTIONALLY (EXAMPLE: IF 6' HIGH SQUARE FEET = 3.5 SQUARE FEET, 12' HIGH = 23.0 SQ.FT.).
2. PAVEMENT WORD AND SYMBOL MARKINGS, TRANSVERSE AND LONGITUDINAL (CONTINENTAL) CROSSWALK LINES, STOP LINES, AND YIELD LINES ARE IN SQUARE FEET USING THEIR SPECIFIC SIZE ITEMS.



PAVEMENT MARKING WORDS AND SYMBOLS (PAGE 2)

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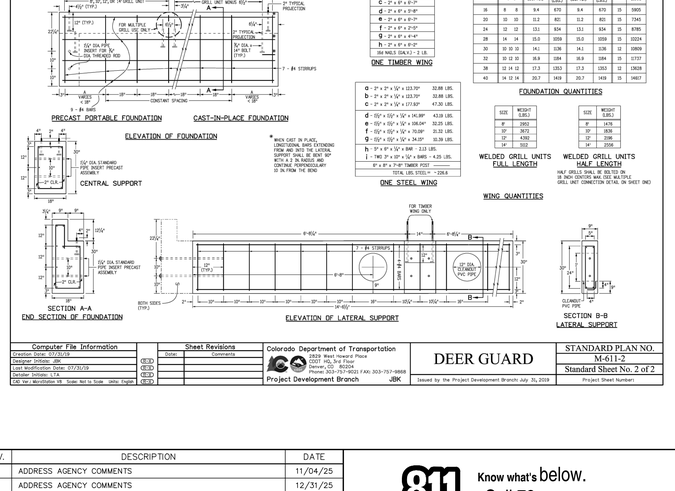
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PAVEMENT MARKINGS

Issued By: Traffic Safety & Engineering Branch July 31, 2019

STANDARD PLAN NO.
S-627-1
Standard Sheet No. 10 of 11
Project Sheet Number:



ROADWAY WIDTH (FT.)	USE UNITS (FT.)	PRECAST CONCRETE (CU. YD.)	PRECAST REINF. STEEL (LBS.)	CAST-IN-PLACE CONCRETE (CU. YD.)	CAST-IN-PLACE REINF. STEEL (LBS.)	A (IN.)	TOTAL WEIGHT (LBS.)
10	8	8	9.4	6.70	9.4	15	5905
12	10	10	11.3	8.03	11.2	15	7343
24	12	12	13.1	9.54	13.1	15	8765
28	14	14	15.0	10.59	15.0	15	10224
30	30	30	14.1	3.26	14.1	12	10809
32	30	32	30	16.8	18.4	16.9	15
38	12	14	12	17.3	13.3	17.3	12
40	34	13	14	20.2	14.9	20.7	15

ONE TIMBER WING

a = 2" x 2" x 10'-0" = 123.70#	32.88 LBS.
b = 2" x 2" x 9'-0" = 123.70#	32.88 LBS.
c = 2" x 2" x 16'-0" = 177.93#	47.30 LBS.
d = 2" x 2" x 9'-0" = 141.99#	43.09 LBS.
e = 2" x 2" x 10'-0" = 106.04#	32.20 LBS.
f = 2" x 2" x 10'-0" = 70.39#	21.33 LBS.
g = 2" x 2" x 14'-0" = 24.35#	10.39 LBS.
h = 3" x 4" x 10'-0" = 8.99	3.33 LBS.
1 = TWO 2" x 10" x 12'-0" = 3.44 LBS. = 4.25 LBS.	
8" x 8" x 7'-4" TIMBER POST	
TOTAL LBS. STEEL = 226.6	

ONE STEEL WING

FOUNDATION QUANTITIES

SIZE	WEIGHT (LBS.)
8"	2953
10"	3672
12"	4393
14"	5112

WELDED GRILL UNITS FULL LENGTH

SIZE	WEIGHT (LBS.)
8"	1479
10"	1838
12"	2196
14"	2558

WELDED GRILL UNITS HALF LENGTH

HALF GRILLS SHALL BE BOLTED ON 19 INCH CENTERS WHEN TWO HALVES GRILL UNIT CONNECTION DETAIL ON SHEET (NO)

WING QUANTITIES

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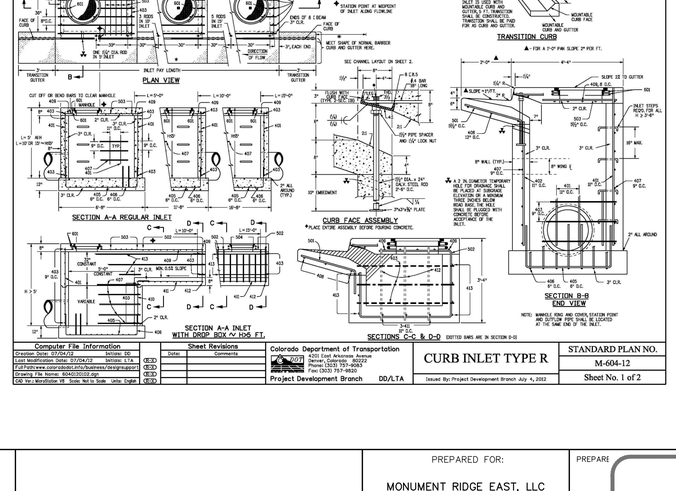
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DEER GUARD

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M-611-2
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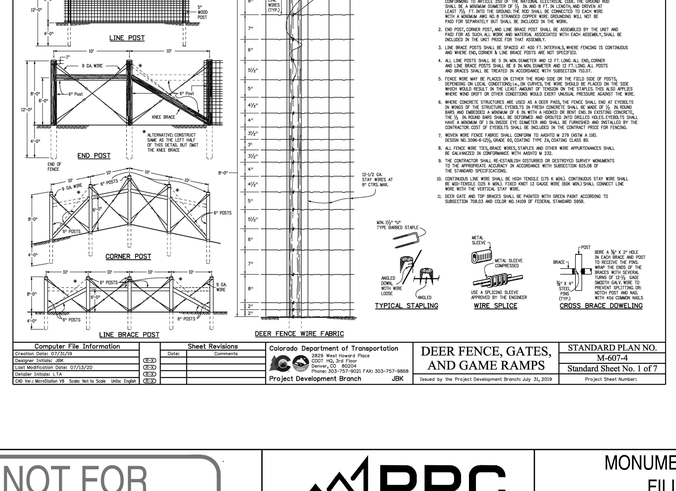
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Project Development Branch — DD/LTA

CURB INLET TYPE R

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STANDARD PLAN NO.
M-604-12
Sheet No. 1 of 2
Project Sheet Number:



GENERAL NOTES

1. AT EACH LOCATION WHERE AN ELECTRIC TRANSMISSION, DISTRIBUTION OR SECONDARY LINE CROSSES A BARRIER FENCE, THE CONTRACTOR SHALL FURNISH AND INSTALL A GROUND CONNECTION AS SHOWN ON THE PLANS. THE GROUND CONNECTION FOR EACH LOCATION SHALL BE A MINIMUM DIAMETER OF 5/8 IN AND 8 FT IN LENGTH, AND DRIVEN AT LEAST 7/2, FT INTO THE GROUND. THE GOOD SHALL BE CONNECTED TO EACH WIRE OF THE FENCE WITH NO. 6 BARE COPPER WIRE. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
2. END POST, CORNER POST, AND LINE BRACE POST SHALL BE ASSEMBLED BY THE UNIT AND PAID FOR AS SUCH, ALL WORK AND MATERIAL ASSOCIATED WITH EACH ASSEMBLY, SHALL BE INCLUDED IN THE UNIT PRICE FOR THAT ASSEMBLY.
3. LINE BRACE POSTS SHALL BE SPACED AT 400 FT INTERVALS, WHERE FENCING IS CONTINUOUS AND WHERE END, CORNER N LINE BRACE POSTS ARE NOT SPECIFIED.
4. ALL LINE POSTS SHALL BE 3 IN MIN DIAMETER AND 12 FT LONG, ALL END, CORNER AND LINE BRACE POSTS SHALL BE 4 IN MIN DIAMETER AND 12 FT LONG, ALL POSTS SHALL BE SET PLUMB AND TO THE LINE AND GRADE SHOWN ON THE PLANS.
5. FENCE WIRE MAY BE PLACED ON EITHER THE ROAD SIDE OR THE FIELD SIDE OF POSTS, DEPENDING ON LOCAL CONDITIONS, I.N. ON CURVES, THE WIRE SHOULD BE PLACED ON THE SIDE WHICH WOULD RESULT IN THE LEAST AMOUNT OF TENSION ON THE STAPLES. THIS ALSO APPLIES WHERE WIND DRIFT OR OTHER CONDITIONS WOULD EXERT UNUSUAL PRESSURE AGAINST THE WIRE.
6. WHERE CONCRETE STRUCTURES ARE USED AS A DECK PANEL, THE FENCE SHALL BE ATTACHED TO THE CONCRETE BY MEANS OF A 2 IN X 4 IN WOOD STRINGER BOLTED TO THE CONCRETE WITH 3/8 IN DIAMETER ANCHOR BOLTS, OR BY MEANS OF A 2 IN X 4 IN WITH A HOOKED OR BENT END, AS EXISTING CONDITIONS MAY REQUIRE. ANCHOR BOLTS SHALL BE EMBEDDED AND GROUTED INTO DRILLED HOLES. STRINGERS SHALL HAVE A MINIMUM OF 3 IN INSIDE TYE DIMENSION AND SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE PRICE PAID FOR FENCING.
7. WOVEN WIRE FENCE FABRIC SHALL CONFORM TO AASHTO M 279 TYPE 39 WIRE, EXCEPT SECTION NO. 3096-9-1205, GRADE 60, CONTAINS TYPE 3A, COATING CLASS 3A.
8. ALL FENCE WIRE TIES, BRACE WIRES, STAPLES AND OTHER WIRE APPURTENANCES SHALL BE GALVANIZED IN CONFORMANCE WITH AASHTO M 232.
9. THE CONTRACTOR SHALL RE-ESTABLISH DISTURBED OR DESTROYED SURVEY MONUMENTS TO THE APPROPRIATE ACCURACY IN ACCORDANCE WITH SUBSECTION 625.08 OF THE STANDARD SPECIFICATIONS.
10. CONTINUOUS LINE WIRE SHALL BE HIGH TENSILE (170 # MIN.), CONTINUOUS STAY WIRE SHALL BE 12 1/2 GAUGE MIN. AND BARBED WIRE SHALL BE 12 GAUGE MIN. BOTH WIRES SHALL CONFORM TO AASHTO M 280. WIRE WITH THE HIGHEST TENSILE STRENGTH SHALL BE USED.
11. DEER GATE AND TOP BRACES SHALL BE PAINTED WITH GREEN PAINT ACCORDING TO SUBSECTION 708.03 AND COLOR NO. 14109 OF FEDERAL STANDARD 595B.

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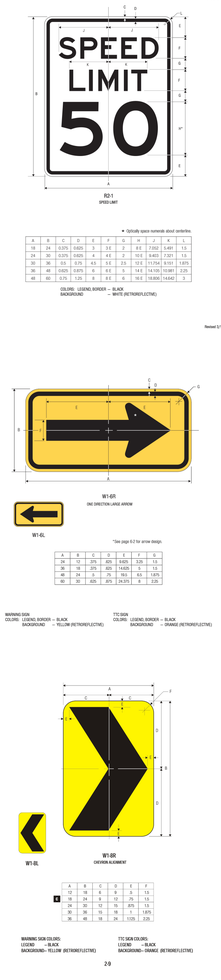
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DEER FENCE, GATES, AND GAME RAMPS

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STANDARD PLAN NO.
M-607-4
Standard Sheet No. 1 of 7
Project Sheet Number:



REV.	DESCRIPTION	DATE
1	ADDRESS AGENCY COMMENTS	11/04/25
2	ADDRESS AGENCY COMMENTS	12/31/25
3	ADDRESS AGENCY COMMENTS	04/08/26
4	ADDRESS AGENCY COMMENTS	05/11/26

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PREPARED BY:
RAYMOND

NOT FOR CONSTRUCTION

PRC ENGINEERING
1685 W. UINTAH STREET, SUITE 114
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SCALE: N/A
DATE: 04/08/25
JOB NUMBER: 24-001
SHEET: 29 OF 29

A:\Projects\24-001 MHE\Civil_CDs\PH1\24-001-Cov-2d-Details - Details - Monday, May 11, 2026 9:13:09 PM - Michael Pitts

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