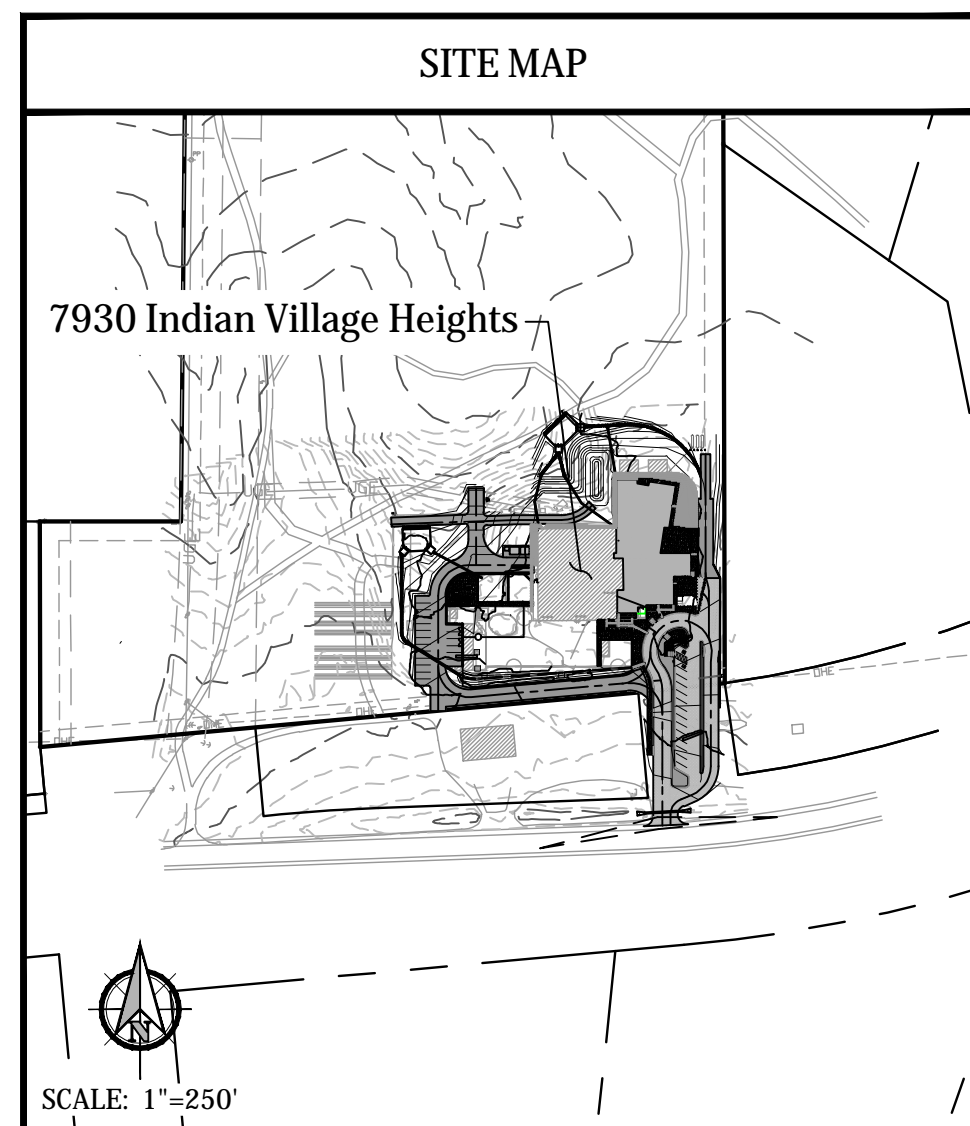


**Kiowa**  
Engineering Corporation

1604 South 21st Street  
Colorado Springs, Colorado 80904  
(719) 630-7342

1604 South Z Street  
Colorado Springs, Colorado 80904  
(719) 630-7342



CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	PROJECT TOTALS	
			PLAN	AS CONST.
1	Mobilization	EA	1	
2	Construction staking	EA	1	
3	Construction traffic control	LS	1	
4	Concrete wash out structure	EA	1	
5	Silt Fencing	LF		
6	Stabilized construction entrance	EA	1	
7	Stabilized staging area	EA	1	
8	Clearing and grubbing	LS	1	
9	Earthwork – cut to fill	CY		
10		LF		
11		LF		
12		LF		

Gas and other utility lines of record shown on the plans.

Gas and other utility lines of record shown on the plans.

Utilities Central Locating called at least 2 business days ahead.  
(1-800-922-1987)

Employees briefed on marking and color codes.\*

Employees trained on excavation and safety procedures for natural gas lines.

When excavation approaches gas lines, employees expose lines by careful probing and hand digging.

\*A.G.A./A.P.W.A. STANDARD UTILITY MARKING COLOR CODE

Natural Gas	Yellow
Electric	Red
Water	Blue
Wastewater	Green

**FLOODPLAIN STATEMENT:**

LOT 110, MIDWAY RANCHES FILE NO. 7 DOES NOT LIE WITHIN A DESIGNATED FLOODPLAIN ACCORDING TO INFORMATION PUBLISHED IN THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOODPLAIN MAP NO. 08041C1170G, DATED DECEMBER 7, 2018.

Engineer's Statement:

This Grading and Erosion Control Plan was prepared under my direction and supervision and is correct to the best of my knowledge and belief. Said Plan has been prepared according to the criteria established by the County for Grading and Erosion Control Plans. I accept responsibility for any liability caused by any negligent acts or omissions on my part in preparing this Plan.

Todd Cartwright PE 33365

---

Date \_\_\_\_\_

Owner's Statement:

I, the owner/developer have read and will comply with the requirements of this Grading and Erosion Control Plan.

Signature \_\_\_\_\_

---

Date \_\_\_\_\_

Signature \_\_\_\_\_  
Hanover School District

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.

County Engineer/ECM Administrator

---

Date \_\_\_\_\_

C300	COVER
C301	GRADING AND EROSION CONTROL NOTES
C311	GRADING PLAN - INITIAL
C312	GRADING PLAN - INTERIM
C313	GRADING PLAN - FINAL
C321	EROSION CONTROL PLAN - INITIAL
C322	EROSION CONTROL PLAN - INTERIM
C323	EROSION CONTROL PLAN - FINAL
C331	GRADING & EROSION CONTROL DETAILS
C332	EROSION CONTROL DETAILS

GRADING AND EROSION CONTROL PLAN  
PRAIRIE HEIGHTS SCHOOL  
COVER  
FOUNTAIN, COLORADO

Project No.:	24047
Date:	6/25/25
Design:	TAC
Drawn:	TEG
Check:	-
Revisions:	

SHEET

# C300

OF \_ SHEETS



PRE-EXCAVATION CHECKLIST	
Gas and other utility lines of record shown on the plans.	
Utilities Central Locating called at least 2 business days ahead. (1-800-922-1987)	
Employees briefed on marking and color codes.*	
Employees trained on excavation and safety procedures for natural gas lines.	
When excavation approaches gas lines, employees expose lines by careful probing and hand digging.	
*A.G.A./A.P.W.A. STANDARD UTILITY MARKING COLOR CODE	
Natural Gas	Yellow
Electric	Red
Water	Blue
Wastewater	Green

EL PASO COUNTY STANDARD NOTES FOR GRADING & EROSION CONTROL PLANS	
1.	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.
2.	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.
3.	A separate Stormwater Management Plan (SWMP) for this project shall be completed and an Erosion and Stormwater Quality Control Permit (ESQCP) issued prior to commencing construction. Management of the SWMP / CSWMP during construction is the responsibility of the designated Qualified Stormwater Manager or Certified Erosion Control Inspector. The SWMP / CSWMP shall be located on-site at all times during construction and shall be kept up to date with work progress and changes in the field.
4.	Once the ESQCP is approved and a "Notice to Proceed" has been issued, the contractor may install the initial stage erosion and sediment control measures as indicated on the approved GEC. A preconstruction meeting between the contractor, engineer, and El Paso County will be held prior to any construction. It is the responsibility of the applicant to coordinate the meeting time and place with County staff.
5.	Control measures must be installed prior to commencement of activities that could contribute pollutants to stormwater. Control measures for all slopes, channels, ditches, and disturbed land areas shall be installed immediately upon completion of the disturbance.
6.	All temporary sediment and erosion control measures shall be maintained and remain in effective operating condition until permanent soil erosion control measures are implemented and final stabilization is established. All persons engaged in land disturbance activities shall assess the adequacy of control measures at the site and identify if changes to those control measures are needed to ensure the continued effective performance of the control measures. All changes to temporary sediment and erosion control measures must be incorporated into the stormwater management plan.
7.	Temporary stabilization shall be implemented on disturbed areas and stockpiles where ground disturbing construction activity has permanently ceased or temporarily ceased for longer than 14 days.
8.	Final stabilization must be implemented at all applicable construction sites. Final stabilization is achieved when all ground disturbing activities are complete and all disturbed areas either have a uniform vegetative cover with individual plant density of 70 percent of pre-disturbance levels established or equivalent permanent alternative stabilization method is implemented. All temporary sediment and erosion control measures shall be removed upon final stabilization and before permit closure.
9.	All permanent stormwater management facilities shall be installed as designed in the approved plans. Any proposed changes that effect the design or function of permanent stormwater management structures must be approved by the ECM Administrator prior to implementation.
10.	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 Waters of the State unless shown to be infeasible and specifically requested and approved.
11.	Compaction of soil must be prevented in areas designated for infiltration control measures or where final stabilization will be achieved by vegetative cover. Areas designated for infiltration control measures shall also be protected from sedimentation during construction until final stabilization is achieved. If compaction prevention is not feasible due to site constraints, all areas designated for infiltration and vegetation control measures must be loosened prior to installation of the control measure(s).
12.	Any temporary or permanent facility 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.
13.	Concrete wash water shall be contained and disposed of in accordance with the SWMP / CSWMP. No wash water shall be discharged to or allowed to enter state waters, including any surface or subsurface storm drainage system or facilities. Concrete washouts 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.
14.	During dewatering operations, uncontaminated groundwater may be discharged on-site, but shall not leave the site in the form of surface runoff unless an approved state dewatering permit is in place.
15.	Erosion control blanketing or other protective covering shall be used on slopes steeper than 3:1.
16.	Contractor shall be responsible for the removal of all wastes 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.
17.	Waste 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. Control measures may be required by El Paso County Engineering if deemed necessary, based on specific conditions and circumstances.
18.	Tracking of soils and construction debris off-site shall be minimized. Materials tracked off-site shall be cleaned up and properly disposed of immediately.
19.	The owner/developer 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.
20.	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 the original manufacturer's labels.
21.	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.
22.	Bulk storage of allowed petroleum products or other allowed liquid chemicals in excess of 55 gallons shall require adequate secondary containment 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.
23.	No person shall cause the impediment of stormwater flow in the curb and gutter or ditch except with approved sediment control measures.
24.	Owner/developer 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, DCM Volume II and the ECM Appendix I. All appropriate permits must be obtained by the contractor prior to construction (1041, NPDES, Floodplain, 404, fugitive dust, etc.). 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.

EL PASO COUNTY STANDARD NOTES FOR GRADING & EROSION CONTROL PLANS (cont)	
25.	All construction traffic must enter/exit the site only at approved construction access points.
26.	Prior to construction the permittee shall verify the location of existing utilities.
27.	A water source shall be available on-site during earthwork operations and shall be utilized as required to minimize dust from earthwork equipment and wind.
28.	The soils report for this site has been prepared by Kumar & Assoc., 3/29/11 and shall be considered a part of these plans.
29.	At least ten (10) days prior to the anticipated start of construction, for projects that will disturb one (1) acre or more, the owner or operator of construction activity shall submit a permit application for stormwater discharge to the Colorado Department of Public Health and Environment, Water Quality Division. The application contains certification of completion of a Stormwater Management Plan (SWMP / CSWMP), of which this Grading And Erosion Control 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 SPECIFIC NOTES	
1.	Stockpiles are expected for the minimal on-site topsoil. Location of topsoil stockpile is to be determined by contractor on-site and noted in CSWMP.
2.	No known potential natural pollutant sources are one site.
3.	All disturbed areas not receiving permanent surface treatment will be re-seeded with Colorado Native Seed Mix per Landscape Plans.
4.	No dedicated asphalt or concrete batch plants are anticipated with this project.
5.	Street sweeping will be completed internally after paving and on adjacent streets as needed.
6.	"All utility installations within the limits of disturbance shown on this plan are covered under this plan. Locations of utilities within the limits of disturbance may be modified after plan approval as a field change. Utility installations related to the private development that extend beyond the limits of disturbance shown on this plan are considered to be part of the larger development, and therefore require a plan modification or separate plan for the additional disturbance area."
7.	No Geohazards on site.
8.	There are no "No Build" areas.
9.	No Preservation easements on site.
10.	Contractor will determine C.W.A. location.
11.	All areas to be vegetated with seeding should also be temporarily stabilized via surface roughening or some other means.
12.	Over-excavation the existing soils, fill and native, to a depth of at least 4 feet below the lowest bottom of footing elevation and throughout the building footprint. Excavations should extend 5 feet laterally beyond the outside edges of the footings.
13.	Where existing fills extend deeper than 4 feet below bottom of foundations, material testing personnel should evaluate the exposed materials within the excavations at the time of construction to determine if removal to more competent materials is necessary. Evaluation may include visual observation, probing, potholing, and field density testing.
14.	Excavations immediately adjacent to the existing building should be sloped away from the foundations at a 1:1 slope. Care should be taken not to undermine existing foundations and excavations should not remain open any longer than necessary to complete the excavation and back-fill process, especially adjacent to existing foundations.
15.	Over-excavated soils can be reused given they are free of organics and debris. The materials should be reconstructed as moisture conditioned and densely compacted fill.
16.	Fill should consist of granular material with 100 percent passing the 2-inch sieve and less than 40 percent passing the No. 200 sieve. The import soil should exhibit low plasticity with a Liquid Limit less than 30 and a Plasticity Index less than 10. Import soils similar to the on-site natural soils may be suitable. A sample of the import material should be submitted for material testing for approval before stockpiling at the site.
17.	Prior to fill placement, vegetation, topsoil, and other deleterious material should be re-moved. Areas to receive fill should be scarified to a depth of 8 inches, moisture conditioned to near optimum moisture content and compacted to high densities.
18.	Fill and backfill should be placed in thin, loose lifts of 8 inches or less. Cohesive materials placed as fill should be moisture conditioned to within 2 percent of optimum moisture con-tents and compacted to at least 95 percent of maximum standard Proctor dry density (ASTM D 698). Granular materials placed as fill should be moisture conditioned to within 2 percent of optimum moisture contents and compacted to at least 95 percent of maximum modified Proctor dry density (ASTM D 1557). We estimate maximum dry densities for the on-site clay soils to range from 105 to 120 pcf with estimated optimum moisture contents of 12 to 18 percent. A Proctor should be conducted by a material testing laboratory at the time of construction to determine the actual maximum Proctor dry density and optimum moisture content for materials placed as fill. Compaction of backfill should be observed and tested by a representative of our firm during construction.
19.	Utility trench backfill in non-building areas be moisture conditioned to within 2 percent of optimum moisture content and compacted to at least 95 percent of maximum standard Proctor dry density (ASTM D 698).
20.	Fill should not be placed when frozen and should not be placed over top of frozen soils. Once fill is placed, it is important that measures be planned to reduce drying of the near-surface materials. If the fill dries excessively prior to building construction, it may be necessary to rework (scarify, moisture condition, and compact) the upper, drier materials prior to the placement of concrete and forms for the new foundations or floor slabs.
21.	Asphalt pavement mix should meet the following criteria. Colorado Asphalt Pavement Association (CAPA) guidelines for the design and construction of commercial parking lots in Colorado. •Superpave design for less than 100,000 ESALS •Design gyrations of 50 •SX or S grading for a lower lift and SX for the top mat. •Non-modified Asphalt Binder PG 58-28
22.	All Concrete flat-work will have a broom finish.
23.	The sites existing vegetation is prairie grasses and weeds.

KIOWA GENERAL NOTES	
1.	All materials and workmanship shall be in conformance with the latest version of Colorado Department of Transportation (CDOT) standard specifications for road and bridge construction and supplemented with the City of Colorado Springs standard specifications.
2.	The contractor shall notify the owner (city) and engineer of any problem in conforming to the approved plans for any element of the proposed improvements prior to its construction.
3.	The contractor shall protect all existing facilities in the general area of construction. The contractor shall repair any damage caused by construction operations at no cost to the project.
4.	Utility lines as shown on these drawings are plotted from the best available information. The contractor shall call 811 for utility locations at least two working days prior to any digging. The contractor shall determine the exact location of all utilities prior to construction and shall protect them from damage during construction.
5.	Surveying for this project shall be conducted in accordance with CDOT standards.
6.	Benchmark: fims monument SR10 is a 2-inch diameter aluminum cap stamped "CSU FIMS control SR10" on top of the north curb of constitution avenue at the northwest corner of the bridge over sand creek.
7.	All existing manholes to be marked with t-posts and caution tape prior to commencing with the construction.
8.	water shall be used as a dust palliative where required. Locations shall be as directed by the engineer. Water will not be paid for separately, but will be subsidiary to the excavation item.
9.	All removed asphalt will become the property of the contractor and will be disposed of outside project limits.
10.	The soil to be placed as topsoil material shall be free of refuse, stumps, roots, rocks, brush, weeds, hard clods, toxic substances or other material which would be detrimental to its use on the project. It shall have a minimum p.I. Of 5 but shall not be such heavy clay as to preclude placement with a shoulder machine.
11.	Salvageable material: material that can be saved or salvaged. Unless otherwise specified in the contract, all salvageable material shall become the property of the contractor.
12.	Topographic data indicated on these drawings was compiled from field surveys. Contractor must verify extent of work within these areas. Dimensions, elevations, and locations of existing structures, pipelines, and utilities are approximate. Where such dimensions or locations determine the limits of the work, such dimensions or locations shall be verified in the field prior to construction.
13.	The locations of existing structures, pipelines, utilities, etc., shown on the drawings have been approximated. There may be other structures, pipelines, utilities, etc., not shown on the drawings which presently exist in the area of construction. The engineer and/or owner assumes no responsibility for the accuracy or completeness of the information shown. The contractor will be responsible for locating and protecting all impacted existing structures, pipelines, utilities, etc., in the project site.
14.	The contractor shall carefully preserve all monuments, benchmarks, property markers, reference points, and stakes. In case of his destruction of these, the contractor will be responsible for resetting same, at no cost to the owner, and shall be responsible for any loss of time that may be caused.
15.	The contractor shall notify the engineer where utilities conflict with the work in conformance with the specifications. Where field verification is noted noted on the plans, this shall require the contractor to determine the location of the facility in question prior to construction. A determination shall be made by the contractor if the current design will conflict with the existing facility and notify the engineer in writing.
16.	All existing areas disturbed outside the limits of construction activities shall be re-vegetated in conformance with the specifications at no additional cost to the project. All existing roadways and sidewalks damaged during construction shall be repaired or reconstructed in conformance with the specifications.
17.	Signage shall follow the "manual on uniform traffic control devices" latest edition and the city of Colorado Springs traffic engineering signage & pavement marking standards. Contractor shall submit to the county a traffic control plan prior to commencing with the work.
18.	Contractor shall establish trail corridor with stakes. The owner will then mark all trees to be saved in a walkthrough of the trail corridor with the contractor.
19.	All discharges to drainage courses and storm sewer systems must comply with the applicable provisions of the Colorado water quality control act and the Colorado discharge permit regulations, and are subject to inspection by El Paso county and CDPHE. El Paso has a ms-4 permit. Contractor shall devise and implement a permanent plan for periodic removal and disposal of sediment from erosion control facilities and for maintenance of erosion control facilities.
20.	The contractor shall obtain construction stormwater discharge permit from CDPHE.

SITE SPECIFIC DATA	
TIMING Anticipated starting and completion initial grading: May 2025 - June 2025 Anticipated starting and completion interim grading: June 2025 - June 2026 Anticipated starting and completion final grading: June 2026 - Aug 2026 Expected date on which the final stabilization will be completed: Aug 2026	
AREAS Total area of the site to be cleared, excavated, or graded: 3.22 Acres	
RECEIVING WATERS Name of receiving waters: Sand Creek	
EARTHWORKS 1,870 CY CUT, 1.76 AC 3,110 CY FILL, 1.46 AC NET 1,240 CY FILL	

SITE SOIL TYPE NOTE:

The Soil Types for the site classified within Hydrologic Soil Group C and erosion potential is medium to low.

For and on Behalf of Kiowa Engineering Corporation	Date
---	------

EPC File: PPR254

GRADING AND EROSION CONTROL PLAN  
PRAIRIE HEIGHTS SCHOOL  
GRADING AND EROSION CONTROL NOTES  
FOUNTAIN, COLORADO

Project No.:	24047
Date:	6/25/25
Design:	TAC
Drawn:	TEG
Check:	-
Revisions:	

SHEET

C301

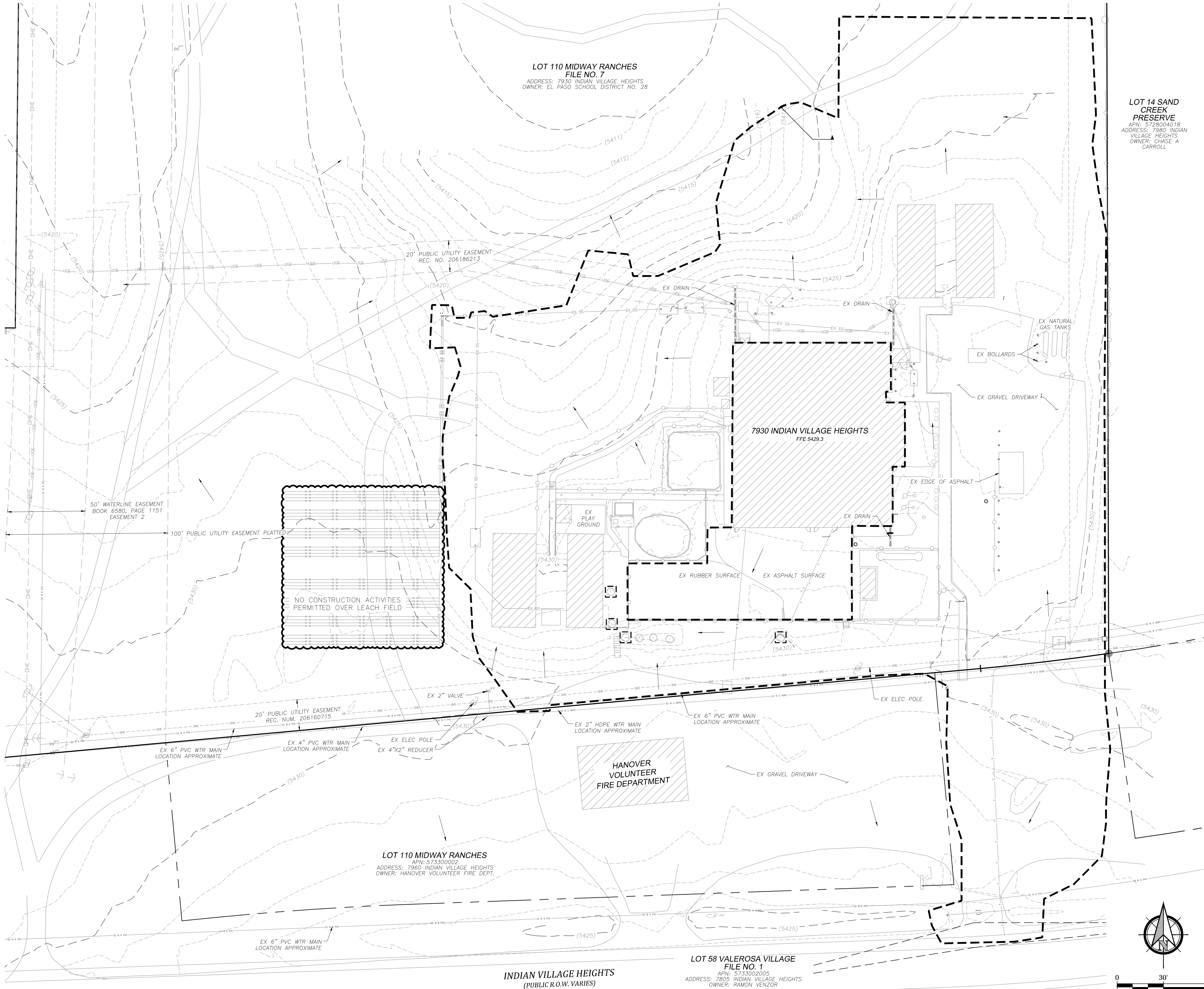
OF \_\_ SHEETS

Kiowa  
Engineering Corporation

1604 South 21st Street  
Colorado Springs, Colorado 80904  
(719) 630-7342



K:\2024\24047 Prairie Hts school Drawings\CDs\24047 C300-CEC.dwg Jun 25, 2025 - 5:32pm

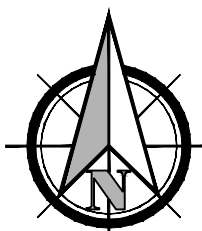


#### GRADING AND EROSION CONTROL LEGEND

	CURB RAMPS TYPICAL - REFER TO DETAILS
	CUT/FILL DEMARCATION LINE
	EXISTING 100 YEAR FLOODPLAIN
	EXISTING CONTOURS
	EXISTING EASEMENT
	EXISTING FENCE
	EXISTING FLOW DIRECTION AND SLOPE
	EXISTING GAS LINE
	EXISTING INLET
	EXISTING INLET
	EXISTING PROPERTY OR ROW LINE
	EXISTING SANITARY SEWER
	EXISTING SPOT ELEVATION
	EXISTING APPROXIMATE SPOT ELEVATION, ELEVATION TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
	EXISTING STORM SEWER
	EXISTING STORM SEWER MANHOLE
	EXISTING STREET LIGHT
	EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING WATER LINE
	PROPOSED 100 YEAR FLOODPLAIN
	PROPOSED CONTOURS
	PROPOSED EASEMENT
	PROPOSED FLOW DIRECTION AND SLOPE
	PROPOSED INLET
	PROPOSED SPOT ELEVATION
	PROPOSED SLOPE
	CHECK DAM
	CULVERT INLET PROTECTION
	CONCRETE WASHOUT AREA
	CONSTRUCTION FENCE
	DRAINAGE SWALE
	EROSION CONTROL BLANKET
	INLET PROTECTION CURB
	INLET PROTECTION AREA - ROCK SOCK
	INLET PROTECTION AREA - SILT FENCE
	INLET PROTECTION AREA - STRAW BALE
	LIMIT OF CONSTRUCTION/DISTURBANCE - APPROXIMATE
	PORTABLE TOILET
	SEEDING AND MULCHING
	SILT FENCE
	STOCKPILE AREA
	STABILIZED STAGING AREA
	SLOPE TRACKING
	SURFACE ROUGHENING
	TEMPORARY COMPACTED BERM
	TEMPORARY SEDIMENT BASIN
	TEMPORARY SLOPE DRAIN
	VEHICLE TRACKING
	PROPOSED ASPHALT/HBP PAVING
	PROPOSED GRAVEL ROAD BASE
	PROPOSED CONCRETE

#### NOTES:

1. ALL ELEVATIONS ARE FLOW LINE TO FLOWLINE UNLESS OTHERWISE INDICATED.
2. ADD 5400 TO SPOT ELEVATIONS.
3. CONTOUR INTERVAL IS 1 FOOT.
4. WATER MAIN LOCATIONS SHOWN AT SOUTH PROPERTY LINE ARE APPROXIMATE.
5. DO NOT REMOVE BOULDERS FROM SITE. SEE LANDSCAPE PLAN FOR NEW LOCATIONS.
6. PROTECT TREES ON SIGHT AND PRESERVE TREES INDICATED ON LANDSCAPING PLAN. DRAINAGE HAS PRIORITY OVER PROTECTING TREES



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



Know what's below.  
Call before you dig.

For and on Behalf of	Date
Kiowa Engineering Corporation	

EPC File: PPR254

**Kiowa**  
Engineering Corporation

1604 South 21st Street  
Colorado Springs, Colorado 80904  
(719) 630-7342

## GRADING AND EROSION CONTROL PLAN PRAIRIE HEIGHTS SCHOOL GRADING PLAN - INITIAL FOUNTAIN, COLORADO

Project No.: 24047  
Date: 6/25/25  
Design: TAC  
Drawn: TEG  
Check: -  
Revisions:

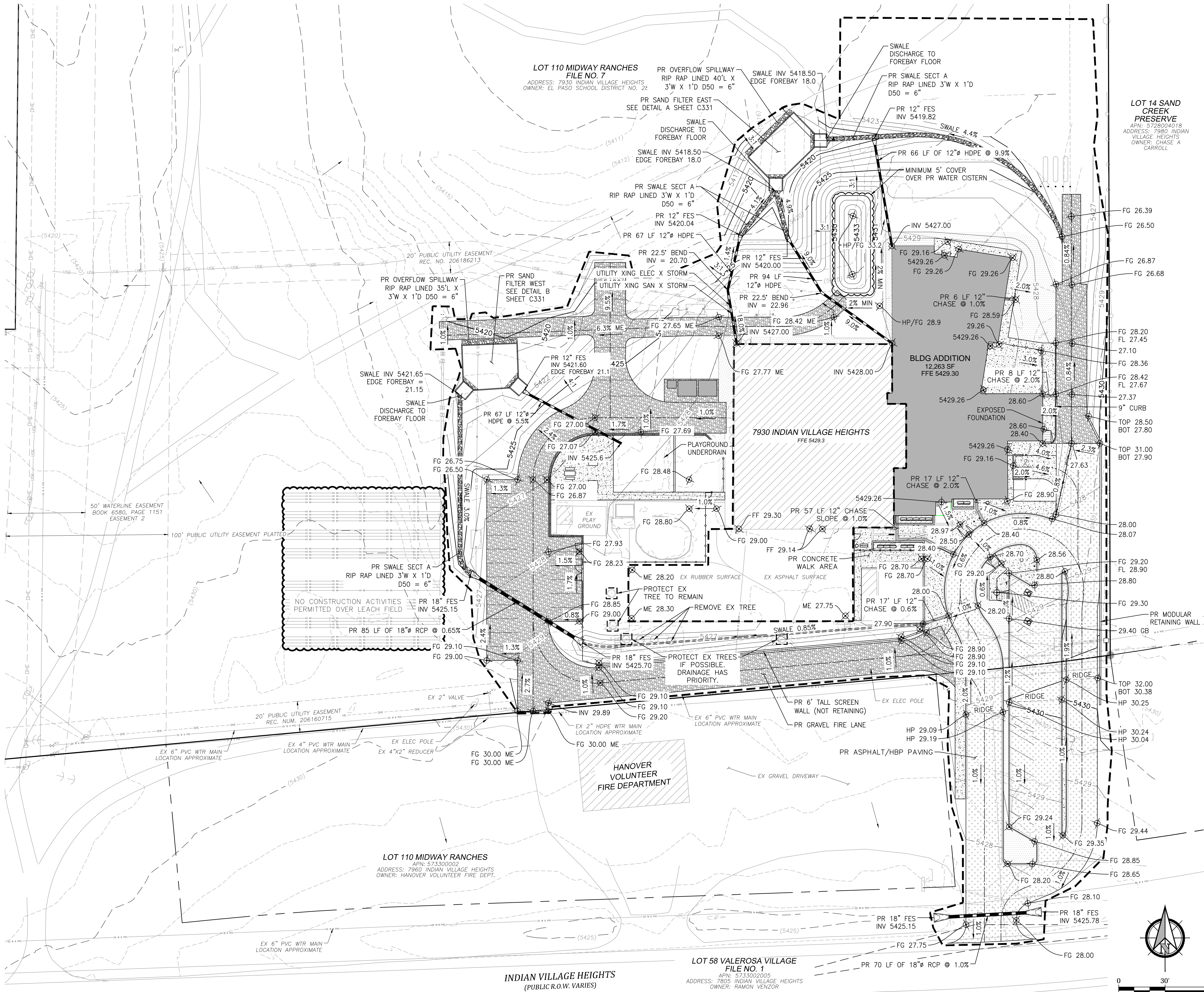
SHEET

C311

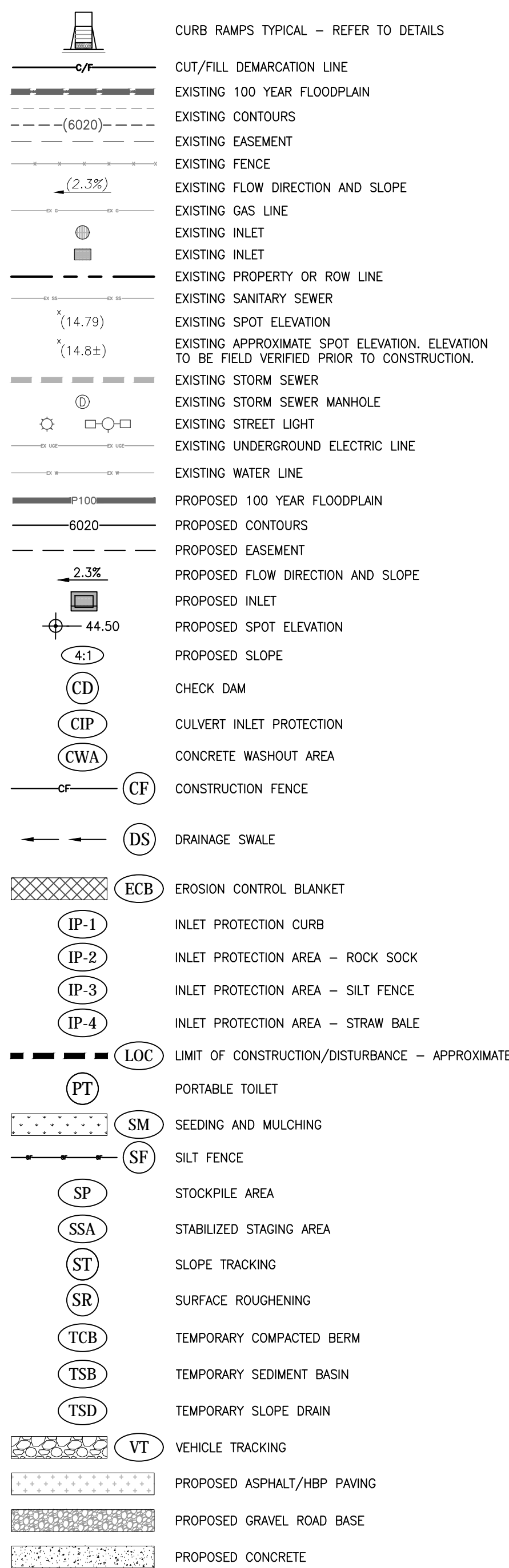
OF \_ SHEETS



K:\2024\24047 Prairie Hts School Drawings\CDs\24047 C300-CEC.dwg Jun 25, 2025 - 5:32pm

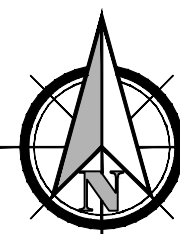


#### GRADING AND EROSION CONTROL LEGEND



#### NOTES:

1. ALL ELEVATIONS ARE FLOW LINE TO FLOWLINE UNLESS OTHERWISE INDICATED.
2. ADD 5400 TO SPOT ELEVATIONS.
3. CONTOUR INTERVAL IS 1 FOOT.
4. WATER MAIN LOCATIONS SHOWN AT SOUTH PROPERTY LINE ARE APPROXIMATE.
5. DO NOT REMOVE BOULDERS FROM SITE. SEE LANDSCAPE PLAN FOR NEW LOCATIONS.
6. PROTECT TREES ON SIGHT AND PRESERVE TREES INDICATED ON LANDSCAPING PLAN. DRAINAGE HAS PRIORITY OVER PROTECTING TREES



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



For and on Behalf of  
Kiowa Engineering Corporation Date

EPC File: PPR254

**Kiowa**  
Engineering Corporation

1604 South 21st Street  
Colorado Springs, Colorado 80904  
(719) 630-7342

## GRADING AND EROSION CONTROL PLAN PRAIRIE HEIGHTS SCHOOL GRADING PLAN - INTERIM FOUNTAIN, COLORADO

Project No.: 24047  
Date: 6/25/25  
Design: TAC  
Drawn: TEG  
Check: -  
Revisions:

SHEET

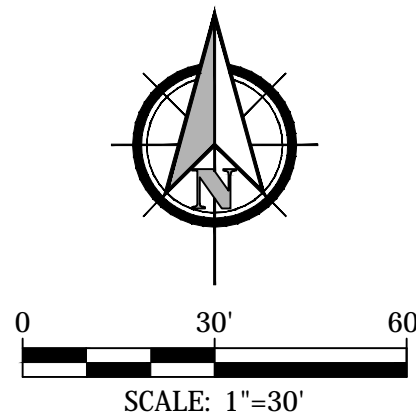
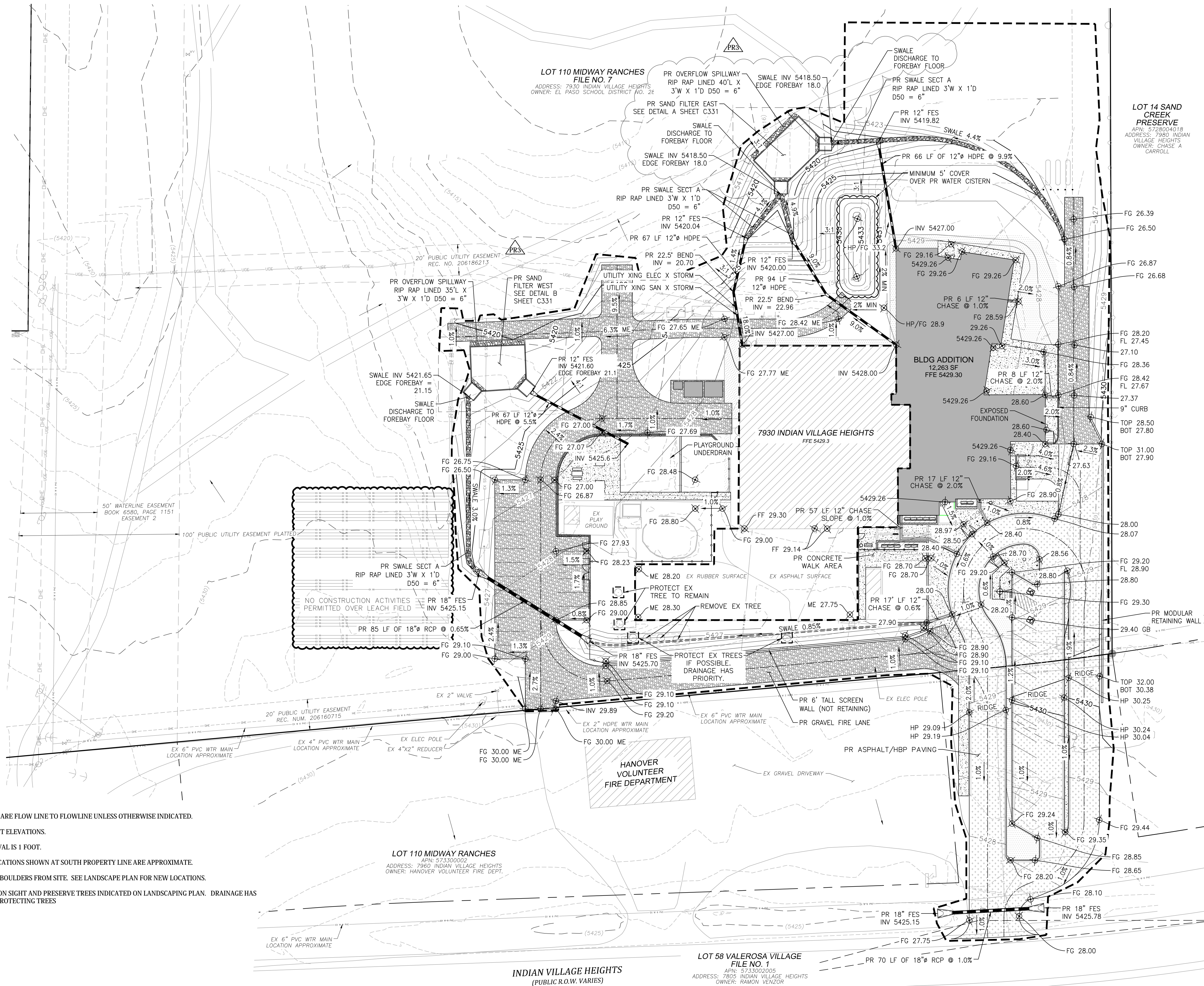
**C312**

OF \_ SHEETS



GRADING NOTES:

1. ALL ELEVATIONS ARE FLOW LINE TO FLOWLINE UNLESS OTHERWISE INDICATED.
2. ADD 5400 TO SPOT ELEVATIONS.
3. CONTOUR INTERVAL IS 1 FOOT.
4. WATER MAIN LOCATIONS SHOWN AT SOUTH PROPERTY LINE ARE APPROXIMATE.
5. DO NOT REMOVE BOULDERS FROM SITE. SEE LANDSCAPE PLAN FOR NEW LOCATIONS.
6. PROTECT TREES ON SIGHT AND PRESERVE TREES INDICATED ON LANDSCAPING PLAN. DRAINAGE HAS PRIORITY OVER PROTECTING TREES



Know what's below.  
Call before you dig.

For and on Behalf of Kiowa Engineering Corporation	Date
---	------

EPC File: PPR254

GRADING AND EROSION CONTROL PLAN  
PRAIRIE HEIGHTS SCHOOL  
GRADING PLAN - FINAL  
FOUNTAIN, COLORADO

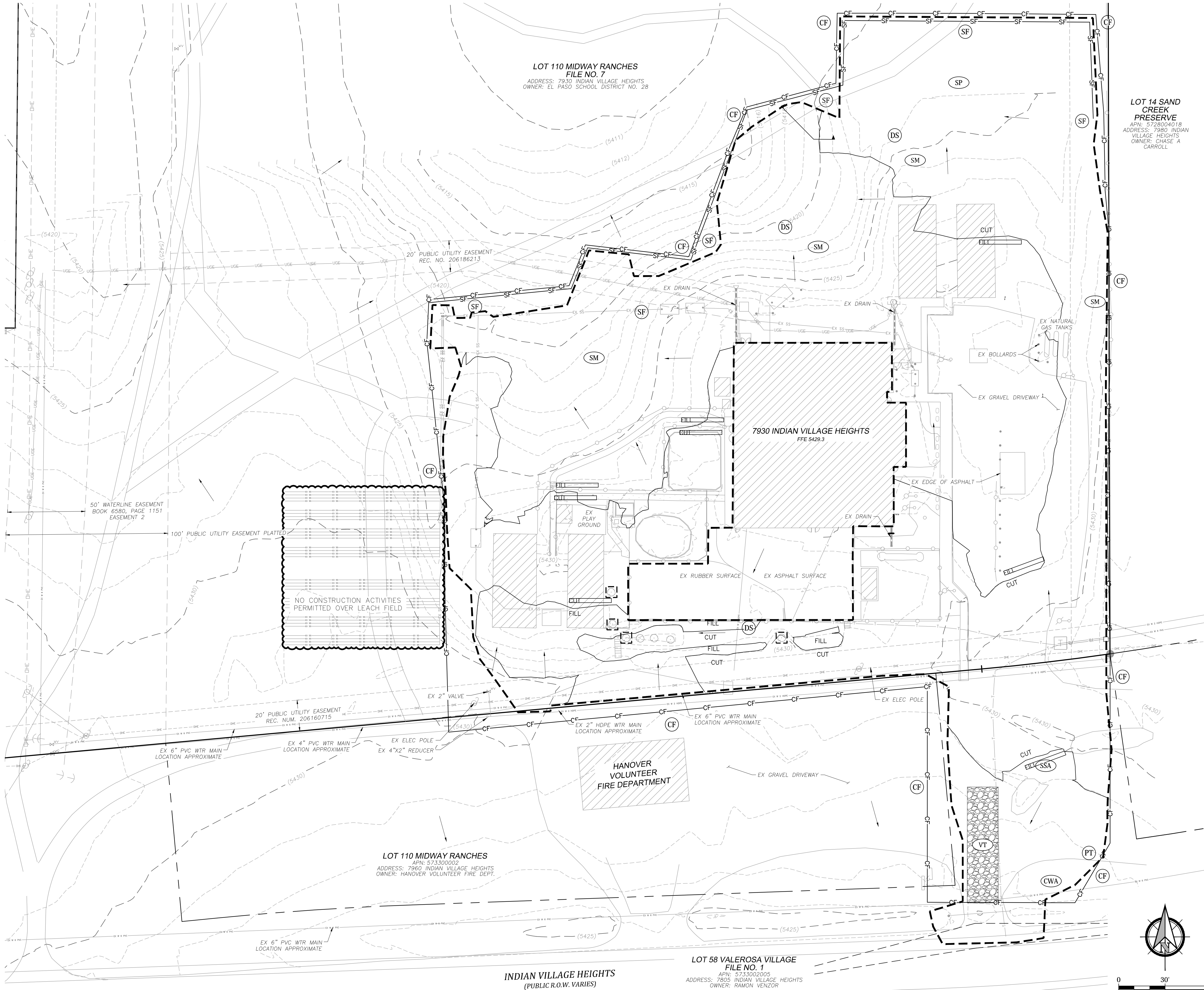
**Kiowa**  
Engineering Corporation  
1604 South 21st Street  
Colorado Springs, Colorado 80904  
(719) 630-7342

Project No.:	24047
Date:	6/25/25
Design:	TAC
Drawn:	TEG
Check:	-
Revisions:	

SHEET  
**C313**  
OF \_ SHEETS



K:\2024\24047 Prairie Hts school Drawings\CDs\24047-C300-CEC.dwg Jun 25, 2025 - 5:33pm

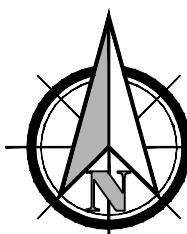


#### GRADING AND EROSION CONTROL LEGEND

	CURB RAMPS TYPICAL - REFER TO DETAILS
	CUT/FILL DEMARCATION LINE
	EXISTING 100 YEAR FLOODPLAIN
	EXISTING CONTOURS
	EXISTING EASEMENT
	EXISTING FENCE
	EXISTING FLOW DIRECTION AND SLOPE
	EXISTING GAS LINE
	EXISTING INLET
	EXISTING INLET
	EXISTING PROPERTY OR ROW LINE
	EXISTING SANITARY SEWER
	EXISTING SPOT ELEVATION
	EXISTING APPROXIMATE SPOT ELEVATION, ELEVATION TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
	EXISTING STORM SEWER
	EXISTING STORM SEWER MANHOLE
	EXISTING STREET LIGHT
	EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING WATER LINE
	PROPOSED 100 YEAR FLOODPLAIN
	PROPOSED CONTOURS
	PROPOSED EASEMENT
	PROPOSED FLOW DIRECTION AND SLOPE
	PROPOSED INLET
	PROPOSED SPOT ELEVATION
	PROPOSED SLOPE
	CHECK DAM
	CULVERT INLET PROTECTION
	CONCRETE WASHOUT AREA
	CONSTRUCTION FENCE
	DRAINAGE SWALE
	EROSION CONTROL BLANKET
	INLET PROTECTION CURB
	INLET PROTECTION AREA - ROCK SOCK
	INLET PROTECTION AREA - SILT FENCE
	INLET PROTECTION AREA - STRAW BALE
	LIMIT OF CONSTRUCTION/DISTURBANCE - APPROXIMATE
	PORTABLE TOILET
	SEEDING AND MULCHING
	SILT FENCE
	STOCKPILE AREA
	STABILIZED STAGING AREA
	SLOPE TRACKING
	SURFACE ROUGHENING
	TEMPORARY COMPACTED BERM
	TEMPORARY SEDIMENT BASIN
	TEMPORARY SLOPE DRAIN
	VEHICLE TRACKING
	PROPOSED ASPHALT/HBP PAVING
	PROPOSED GRAVEL ROAD BASE
	PROPOSED CONCRETE

#### NOTES:

1. WATER MAIN LOCATIONS SHOWN AT SOUTH PROPERTY LINE ARE APPROXIMATE.
2. DO NOT REMOVE BOULDERS FROM SITE. SEE LANDSCAPE PLAN FOR NEW LOCATIONS.
3. PROTECT TREES ON SITE AND PRESERVE TREES INDICATED ON LANDSCAPING PLAN. DRAINAGE HAS PRIORITY OVER PROTECTING TREES
4. LOADING AND UNLOAD OF MATERIALS TO TAKE PLACE IS 'SSA'.
5. STORAGE TO OCCUR IN 'SSA' OR 'SP'.
6. WASTE BINS TO BE LOCATED IN 'SSA'



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



Know what's below.  
Call before you dig.

For and on Behalf of  
Kiowa Engineering Corporation Date

EPC File: PPR254

**Kiowa**  
Engineering Corporation

1604 South 21st Street  
Colorado Springs, Colorado 80904  
(719) 630-7342

## GRADING AND EROSION CONTROL PLAN PRAIRIE HEIGHTS SCHOOL EROSION CONTROL PLAN - INITIAL FOUNTAIN, COLORADO

Project No.: 24047  
Date: 6/25/25  
Design: TAC  
Drawn: TEG  
Check: -  
Revisions:

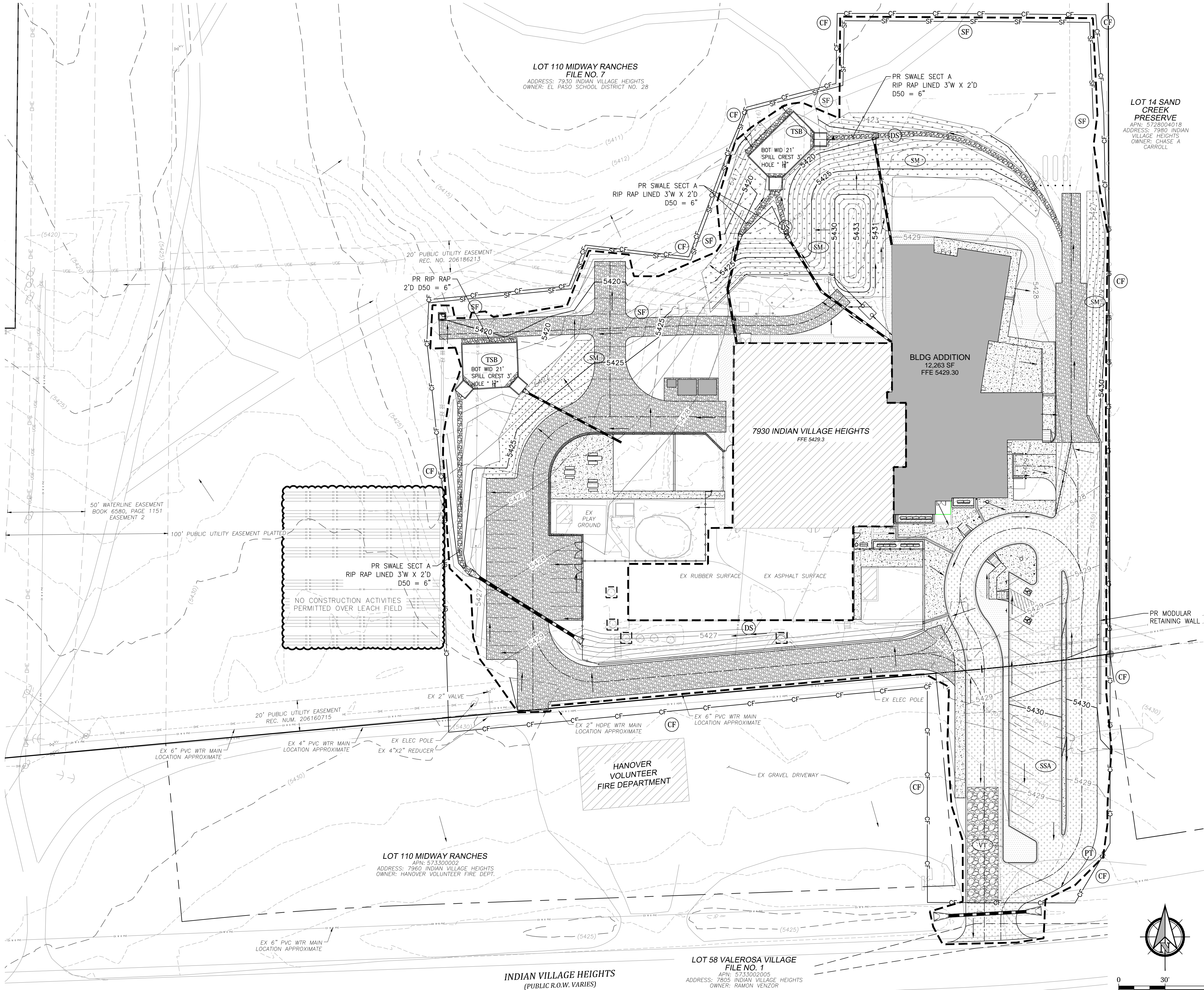
SHEET

**C321**

OF \_ SHEETS



K:\2024\24047 Prairie Hts School Drawings\CDs\24047-C300-CEC.dwg Jun 25, 2025 - 5:33pm

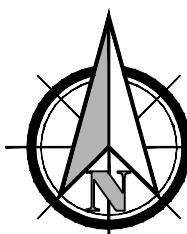


#### GRADING AND EROSION CONTROL LEGEND

	CURB RAMPS TYPICAL - REFER TO DETAILS
	CUT/FILL DEMARCATION LINE
	EXISTING 100 YEAR FLOODPLAIN
	EXISTING CONTOURS
	EXISTING EASEMENT
	EXISTING FENCE
	EXISTING FLOW DIRECTION AND SLOPE
	EXISTING GAS LINE
	EXISTING INLET
	EXISTING INLET
	EXISTING PROPERTY OR ROW LINE
	EXISTING SANITARY SEWER
	EXISTING SPOT ELEVATION
	EXISTING APPROXIMATE SPOT ELEVATION, ELEVATION TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
	EXISTING STORM SEWER
	EXISTING STORM SEWER MANHOLE
	EXISTING STREET LIGHT
	EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING WATER LINE
	PROPOSED 100 YEAR FLOODPLAIN
	PROPOSED CONTOURS
	PROPOSED EASEMENT
	PROPOSED FLOW DIRECTION AND SLOPE
	PROPOSED INLET
	PROPOSED SPOT ELEVATION
	PROPOSED SLOPE
	CHECK DAM
	CULVERT INLET PROTECTION
	CONCRETE WASHOUT AREA
	CONSTRUCTION FENCE
	DRAINAGE SWALE
	EROSION CONTROL BLANKET
	INLET PROTECTION CURB
	INLET PROTECTION AREA - ROCK SOCK
	INLET PROTECTION AREA - SILT FENCE
	INLET PROTECTION AREA - STRAW BALE
	LIMIT OF CONSTRUCTION/DISTURBANCE - APPROXIMATE
	PORTABLE TOILET
	SEEDING AND MULCHING
	SILT FENCE
	STOCKPILE AREA
	STABILIZED STAGING AREA
	SLOPE TRACKING
	SURFACE ROUGHENING
	TEMPORARY COMPACTED BERM
	TEMPORARY SEDIMENT BASIN
	TEMPORARY SLOPE DRAIN
	VEHICLE TRACKING
	PROPOSED ASPHALT/HBP PAVING
	PROPOSED GRAVEL ROAD BASE
	PROPOSED CONCRETE

#### NOTES:

1. WATER MAIN LOCATIONS SHOWN AT SOUTH PROPERTY LINE ARE APPROXIMATE.
2. DO NOT REMOVE BOULDERS FROM SITE. SEE LANDSCAPE PLAN FOR NEW LOCATIONS.
3. PROTECT TREES ON SITE AND PRESERVE TREES INDICATED ON LANDSCAPING PLAN. DRAINAGE HAS PRIORITY OVER PROTECTING TREES



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



For and on Behalf of  
Kiowa Engineering Corporation Date

EPC File: PPR254

**Kiowa**  
Engineering Corporation

1604 South 21st Street  
Colorado Springs, Colorado 80904  
(719) 630-7342

## GRADING AND EROSION CONTROL PLAN PRAIRIE HEIGHTS SCHOOL EROSION CONTROL PLAN - INTERIM FOUNTAIN, COLORADO

Project No.: 24047  
Date: 6/25/25  
Design: TAC  
Drawn: TEG  
Check: -  
Revisions:

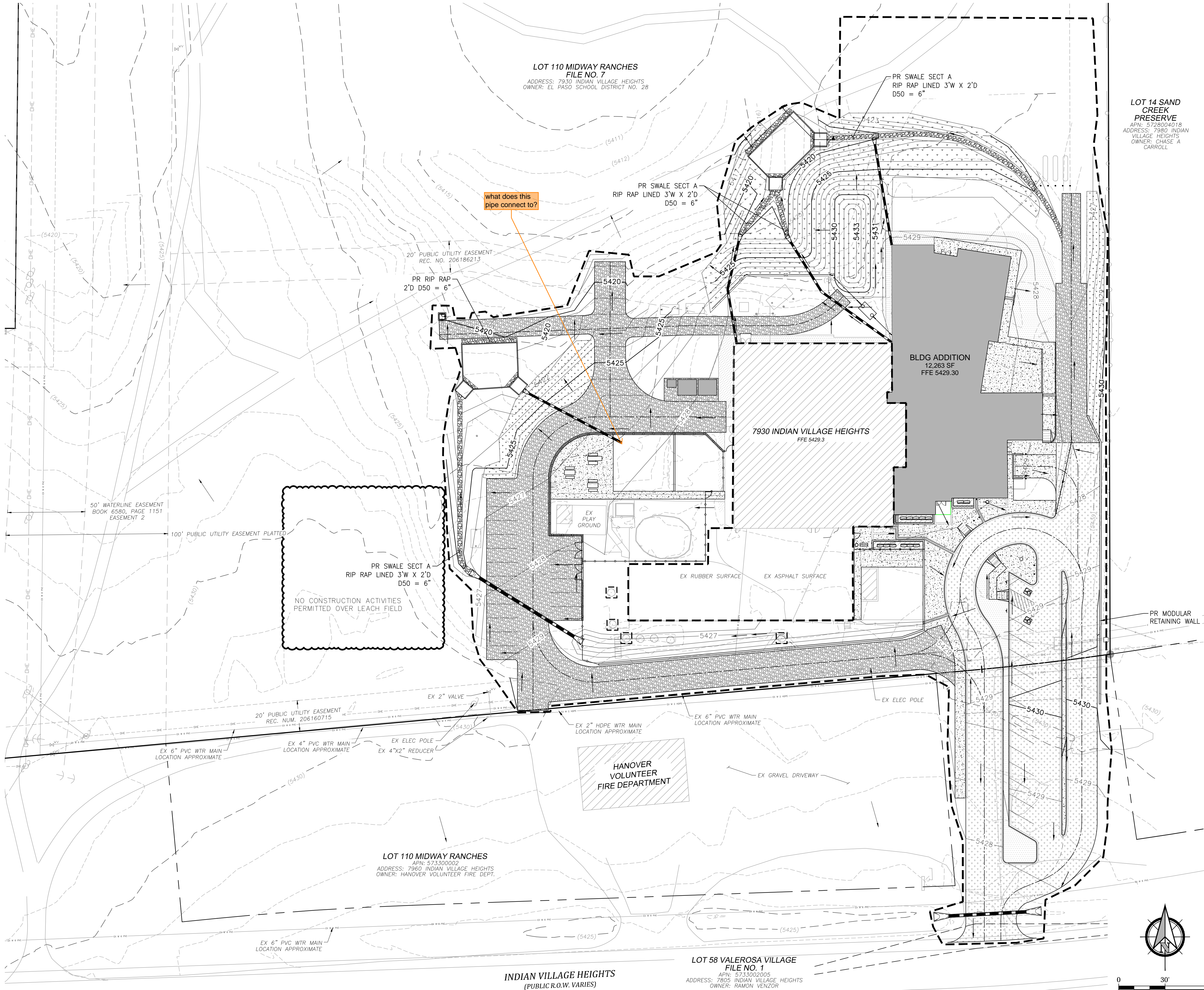
SHEET

**C322**

OF \_ SHEETS

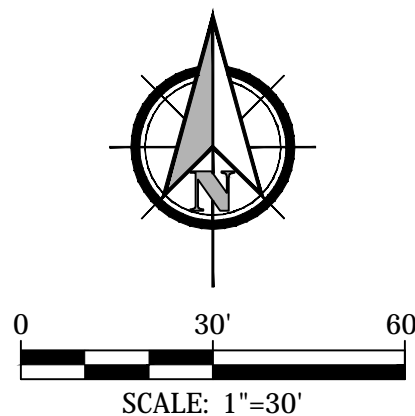


K:\2024\24047 Prairie Hts school Drawings\CDs\24047-C320-CEC.dwg Jun 25, 2025 - 5:33pm



GRADING AND EROSION CONTROL LEGEND	
	CURB RAMP TYPICAL - REFER TO DETAILS
	CUT/FILL DEMARCATION LINE
	EXISTING 100 YEAR FLOODPLAIN
	EXISTING CONTOURS
	EXISTING EASEMENT
	EXISTING FENCE
	EXISTING FLOW DIRECTION AND SLOPE
	EXISTING GAS LINE
	EXISTING INLET
	EXISTING INLET
	EXISTING PROPERTY OR ROW LINE
	EXISTING SANITARY SEWER
	EXISTING SPOT ELEVATION
	EXISTING APPROXIMATE SPOT ELEVATION, ELEVATION TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
	EXISTING STORM SEWER
	EXISTING STORM SEWER MANHOLE
	EXISTING STREET LIGHT
	EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING WATER LINE
	PROPOSED 100 YEAR FLOODPLAIN
	PROPOSED CONTOURS
	PROPOSED EASEMENT
	PROPOSED FLOW DIRECTION AND SLOPE
	PROPOSED INLET
	PROPOSED SPOT ELEVATION
	PROPOSED SLOPE
	CHECK DAM
	CULVERT INLET PROTECTION
	CONCRETE WASHOUT AREA
	CONSTRUCTION FENCE
	DRAINAGE SWALE
	EROSION CONTROL BLANKET
	INLET PROTECTION CURB
	INLET PROTECTION AREA - ROCK SOCK
	INLET PROTECTION AREA - SILT FENCE
	INLET PROTECTION AREA - STRAW BALE
	LIMIT OF CONSTRUCTION/DISTURBANCE - APPROXIMATE
	PORTABLE TOILET
	SEEDING AND MULCHING
	SILT FENCE
	STOCKPILE AREA
	STABILIZED STAGING AREA
	SLOPE TRACKING
	SURFACE ROUGHENING
	TEMPORARY COMPACTED BERM
	TEMPORARY SEDIMENT BASIN
	TEMPORARY SLOPE DRAIN
	VEHICLE TRACKING
	PROPOSED ASPHALT/HBP PAVING
	PROPOSED GRAVEL ROAD BASE
	PROPOSED CONCRETE

- NOTES:
1. WATER MAIN LOCATIONS SHOWN AT SOUTH PROPERTY LINE ARE APPROXIMATE.
  2. DO NOT REMOVE BOULDERS FROM SITE. SEE LANDSCAPE PLAN FOR NEW LOCATIONS.
  3. PROTECT TREES ON SIGHT AND PRESERVE TREES INDICATED ON LANDSCAPING PLAN. DRAINAGE HAS PRIORITY OVER PROTECTING TREES



For and on Behalf of Kiowa Engineering Corporation	Date
---	------

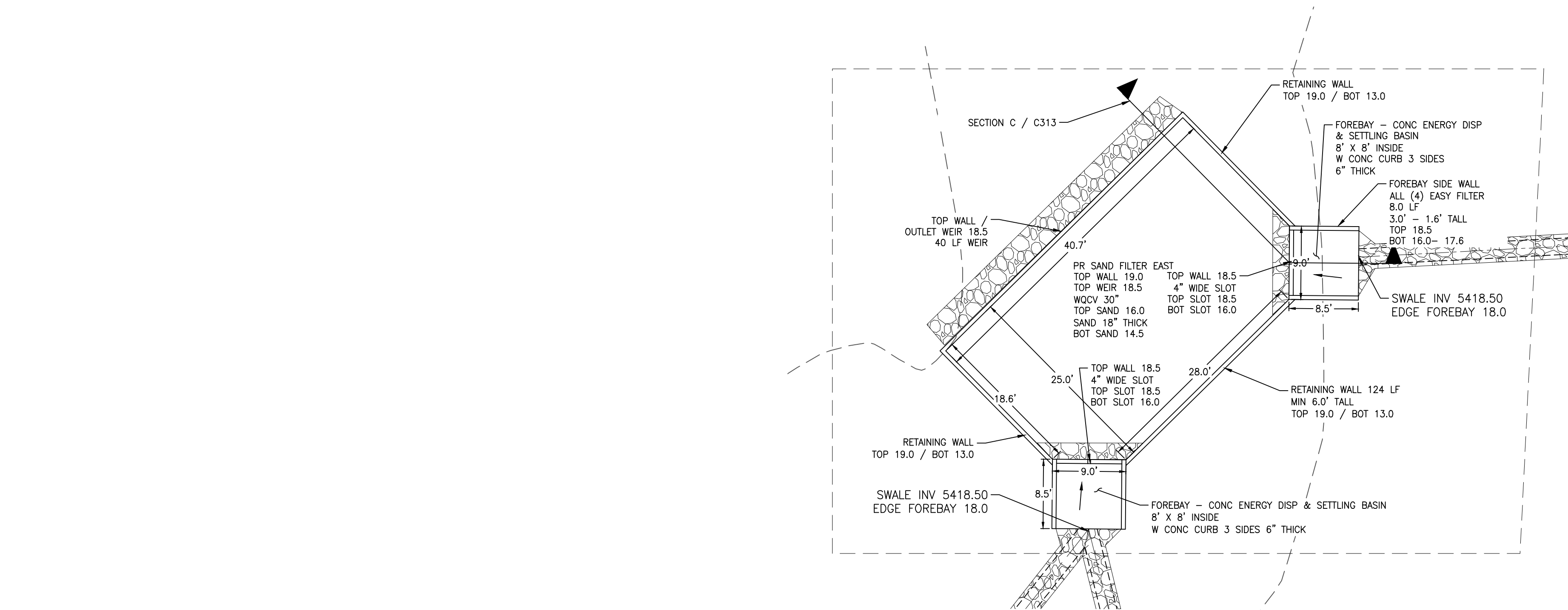
EPC File: PPR254

**GRADING AND EROSION CONTROL PLAN**  
**PRAIRIE HEIGHTS SCHOOL**  
**EROSION CONTROL PLAN - FINAL**  
**FOUNTAIN, COLORADO**

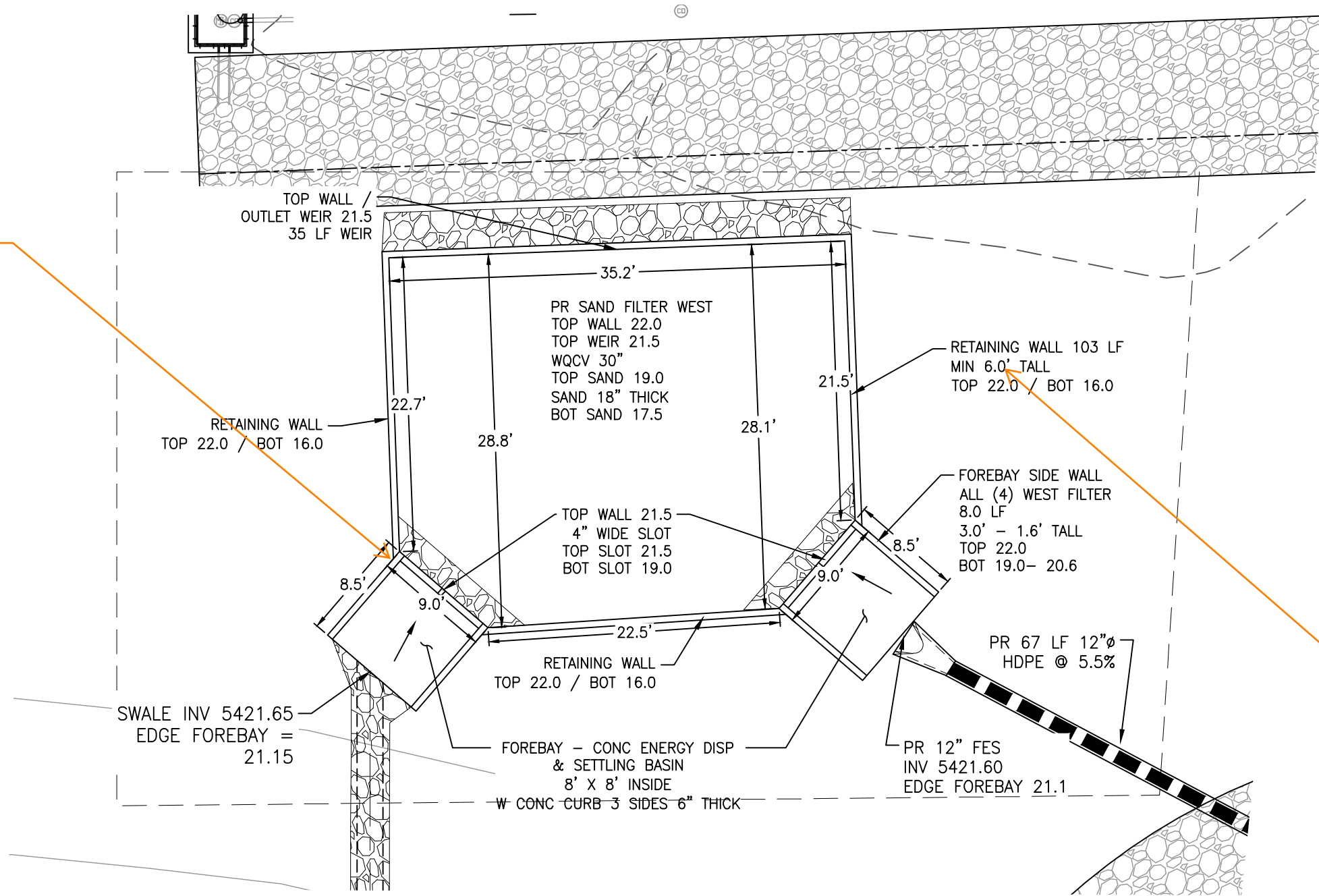
Project No.:	24047
Date:	6/25/25
Design:	TAC
Drawn:	TEG
Check:	-
Revisions:	



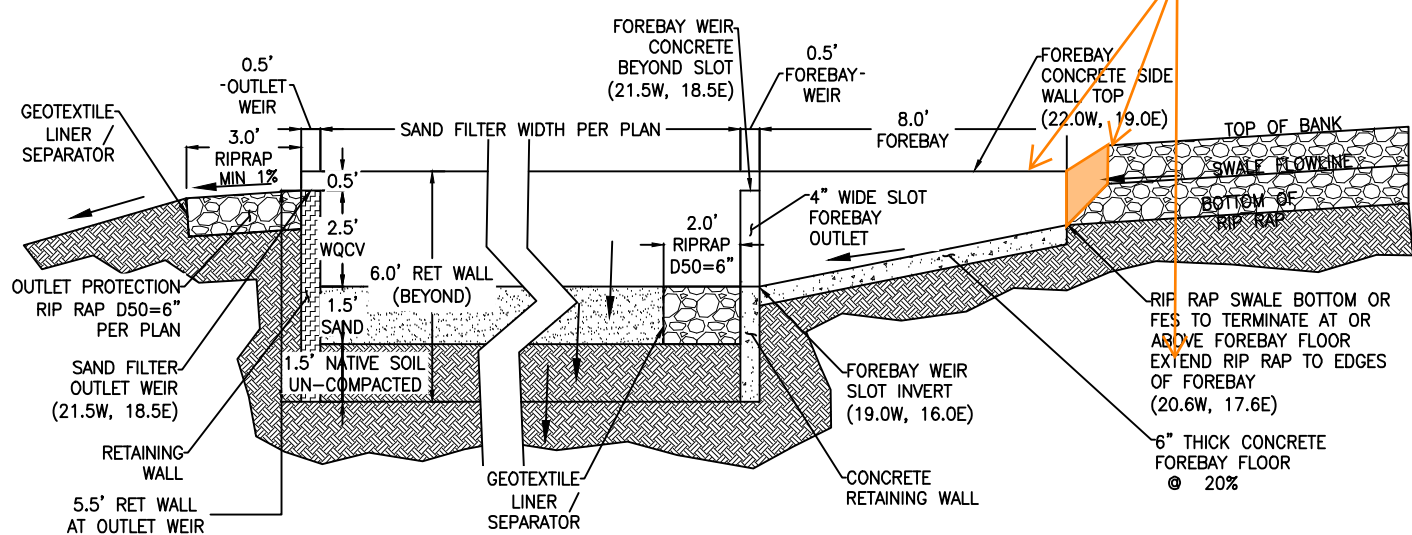
K:\2024\24047 Prairie Hts school\Drawings\CDs\24047-C300-CEC.dwg Jun 25, 2025 - 5:33pm



**A SAND FILTER EAST DETAIL**  
SCALE: 1" = 10'



**B SAND FILTER WEST DETAIL**  
SCALE: 1" = 10'

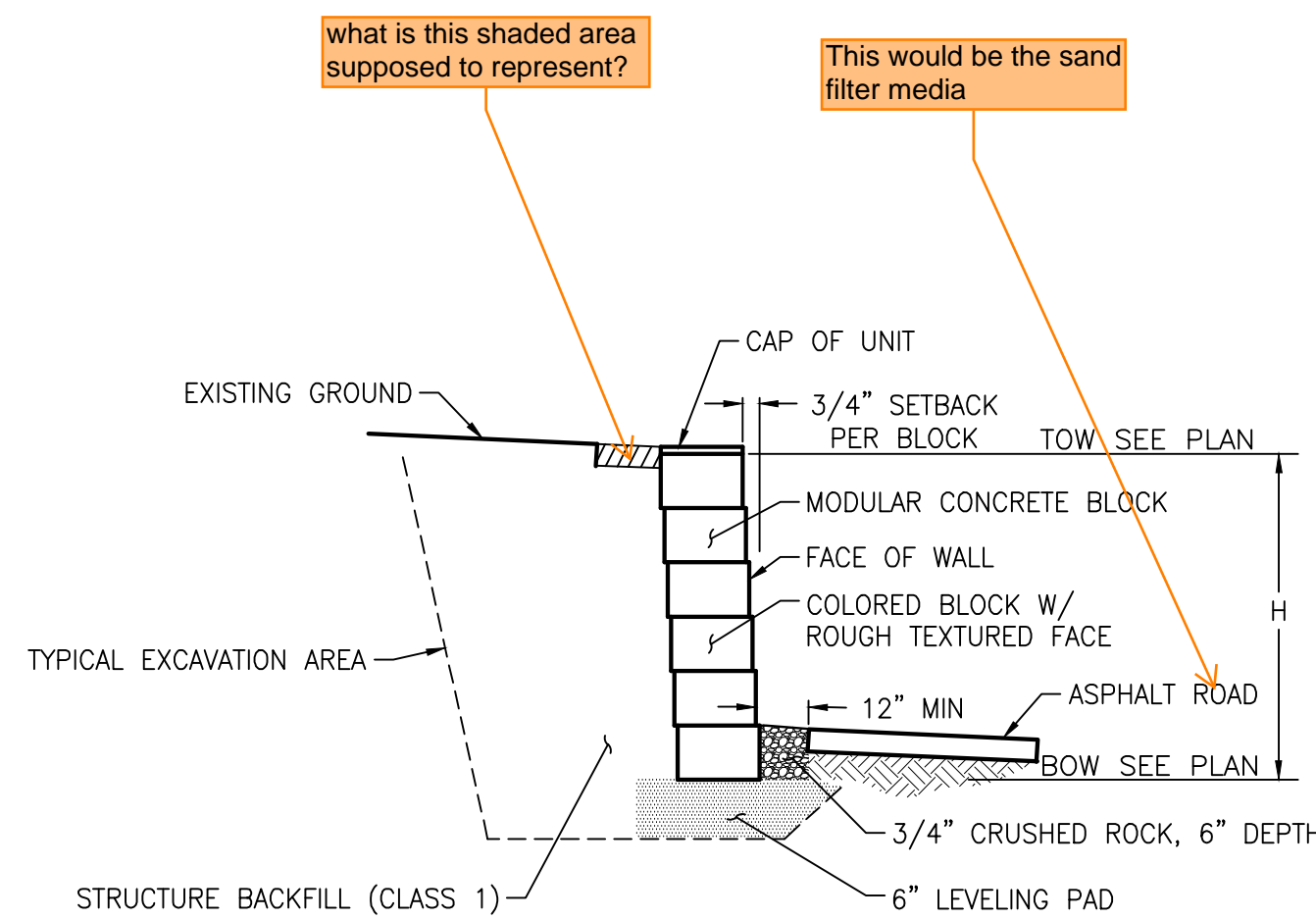
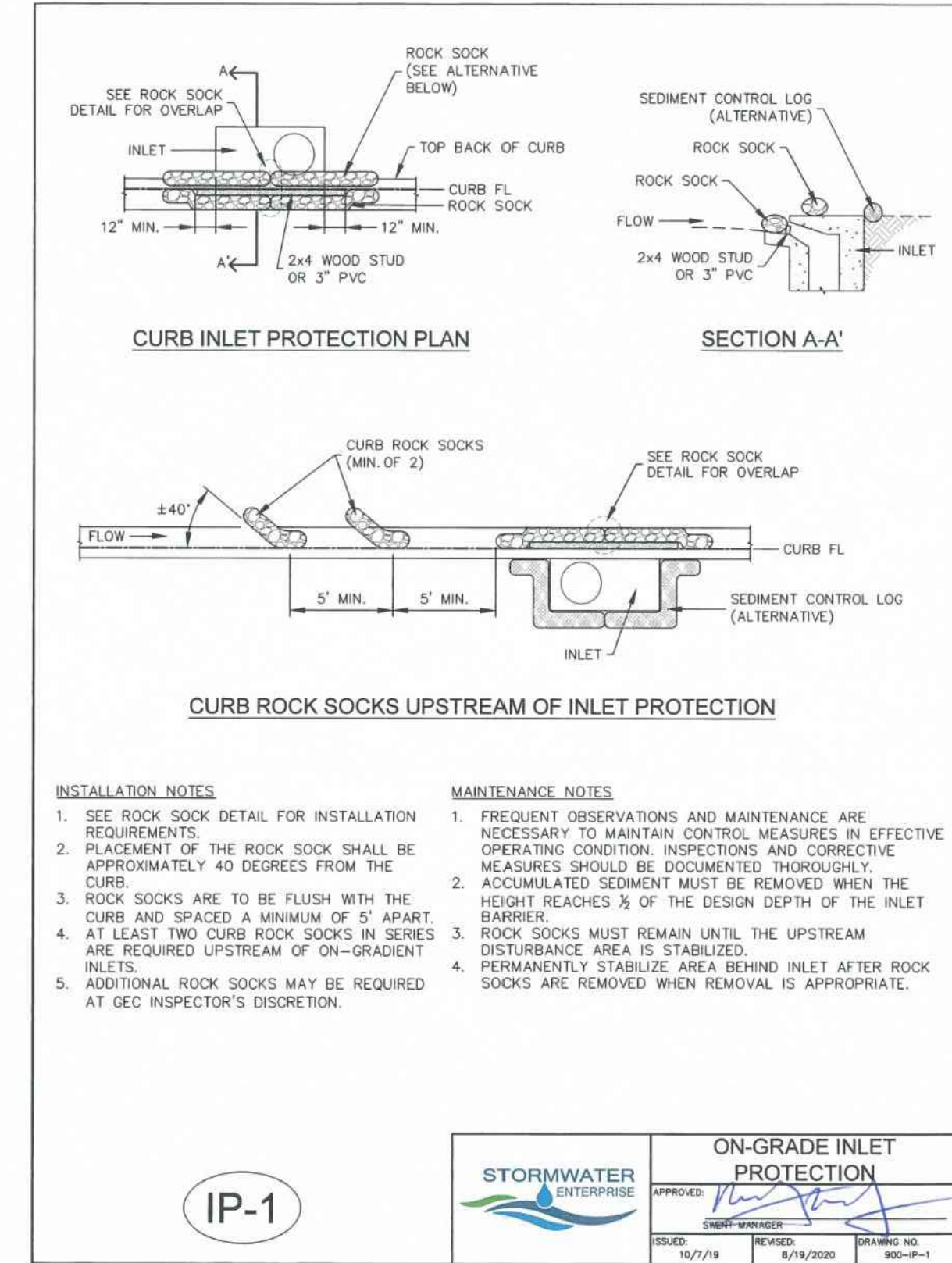


**C SAND FILTER TYP CROSS SECTION**  
SCALE: 1" = 10'

**SAND FILTER NOTES:**

1. WATER QUALITY CAPTURE VOLUME EXPECTED TO INFILTRATE / PERCOLATE DOWN.
2. SAND MEDIA IS CDOT CLASS B OR C FILTER MATERIAL.
3. SAND FILTER RETAINING WALL TO BE CONCRETE OR VINYL SHEET PILE.
4. FOREBAY TO BE CONCRETE ON ALL SIDES.
5. WALL HEIGHT SHOWN IS MINIMUM FOR CONCRETE SHEET PILE HEIGHT PER MANUFACTURER. TYPICALLY 50% TALLER THAN CONCRETE.

MHFD recommends  
AASHTO M43 fine  
aggregate (filter sand)



**MODULAR CONCRETE BLOCK WALL CROSS SECTION**  
NOT TO SCALE

**NOTES:**

1. BUILDING PERMIT FOR THE INSTALLATION OF THE MSE WALL MAY BE REQUIRED THROUGH THE EL PASO CO REGIONAL BUILDING DEPARTMENT FOR WALLS OVER 4'.
2. BLOCK COLOR SHALL BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION.

The walls are 6' tall,  
clarify with PPRBD if the  
walls will require a  
permit



Know what's below.  
Call before you dig.

EPC File: PPR254

**Kiowa**  
Engineering Corporation

1604 South 21st Street  
Colorado Springs, Colorado 80904  
(719) 630-7342

**GRADING AND EROSION CONTROL PLAN**  
**PRAIRIE HEIGHTS SCHOOL**  
**GRADING & EROSION CONTROL DETAILS**  
FOUNTAIN, COLORADO

Project No.: 24047  
Date: 6/25/25  
Design: TAC  
Drawn: TEG  
Check: -  
Revisions:

SHEET

**C331**


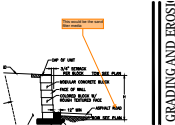
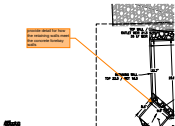
OF \_ SHEETS







# V6 - GEC Plan.pdf Markup Summary

	<p>Author: Mikayla Hartford Page Index: 8 Date: 7/7/2025 2:30:39 PM Color: ■ Layer:</p>	<p>what does this pipe connect to?</p>
	<p>Author: Mikayla Hartford Page Index: 9 Date: 7/7/2025 9:57:44 AM Color: ■ Layer:</p>	<p>MHFD recommends AASHTO M43 fine aggregate (filter sand)</p>
	<p>Author: Mikayla Hartford Page Index: 9 Date: 7/7/2025 1:41:58 PM Color: ■ Layer:</p>	<p>Unresolved from previous submittal: How will the riprap meet the concrete wall? The note below says the riprap will extend but there is a gap from the riprap to the concrete wall. Is the wall top/top of bank representative of the ground elevation? Clarify.</p>
	<p>Author: Mikayla Hartford Page Index: 9 Date: 7/7/2025 1:32:39 PM Color: ■ Layer:</p>	
	<p>Author: Mikayla Hartford Page Index: 9 Date: 7/7/2025 1:40:59 PM Color: ■ Layer:</p>	<p>The walls are 6' tall, clarify with PPRBD if the walls will require a permit</p>
	<p>Author: Mikayla Hartford Page Index: 9 Date: 7/7/2025 1:39:40 PM Color: ■ Layer:</p>	
	<p>Author: Mikayla Hartford Page Index: 9 Date: 7/7/2025 1:40:08 PM Color: ■ Layer:</p>	<p>This would be the sand filter media</p>
	<p>Author: Mikayla Hartford Page Index: 9 Date: 7/7/2025 1:40:39 PM Color: ■ Layer:</p>	<p>what is this shaded area supposed to represent?</p>
	<p>Author: Mikayla Hartford Page Index: 9 Date: 7/7/2025 1:41:45 PM Color: ■ Layer:</p>	<p>provide detail for how the retaining walls meet the concrete forebay walls</p>