

GENERAL NOTES

32. USPS CBU Mailboxes are to be determined by USPS.

Monument is located at the Northwest corner of the intersection of Powers Boulevard and Fontaine Street. The monument is a 3-inch aluminum cap (FIMS ID #206). Located 51.3 feet west of the west edge of asphalt of Powers Blvd and 65.5 feet north of the north edge of asphalt of Fontaine Street. Elevation=5897.89 feet (NGVD 1929, 1960 Adj.) BASIS OF BEARINGS is based upon a portion of the Easterly boundary of the Glen at Widefield Sudbivision Filing No. 5B as recorded under Reception No. 206712326 in the records of the Clerk and Recorder's Office, County of El Paso, State of Colorado; said line being also a portion of the Easterly Right-of-Way Autumn Glen Avenue as described in said subdivision, being monumented at the Point of Tangency of said boundary by a found cap and rebar marked "PLSC 25968" and at the Point of Curvature of said boundary by a found rebar and cap marked "PLSC 25968". Said line bears N29°46'44"W, a distance of 1154.12 feet.

EL PASO COUNTY STANDARD NOTES

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.

- 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).
- 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: 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
- CDOT M & S Standard
- 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.
- 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.
- Contractor shall schedule a pre-construction meeting with El Paso County Planning and Community Development (P&CDD) Inspections, prior to starting construction.
- 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.
- Contractor shall not deviate from the plans without first obtaining written approval from the design engineer and P&CDD. 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 P&CDD.
- 10. Contractor shall coordinate geotechnical testing per ECM standards. Pavement design shall be approved by El Paso County P&CDD 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.

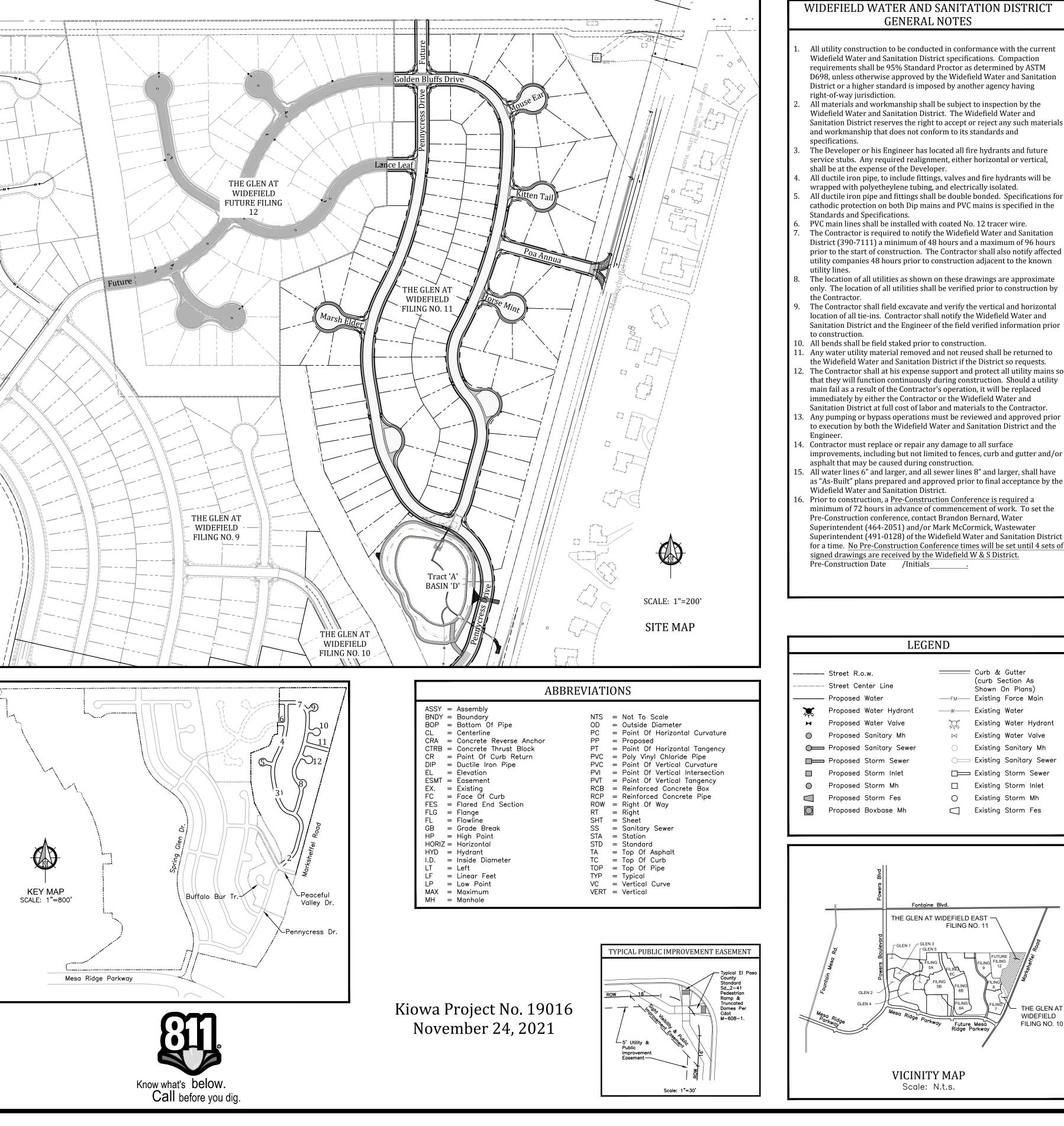
INDEX OF SHEETS

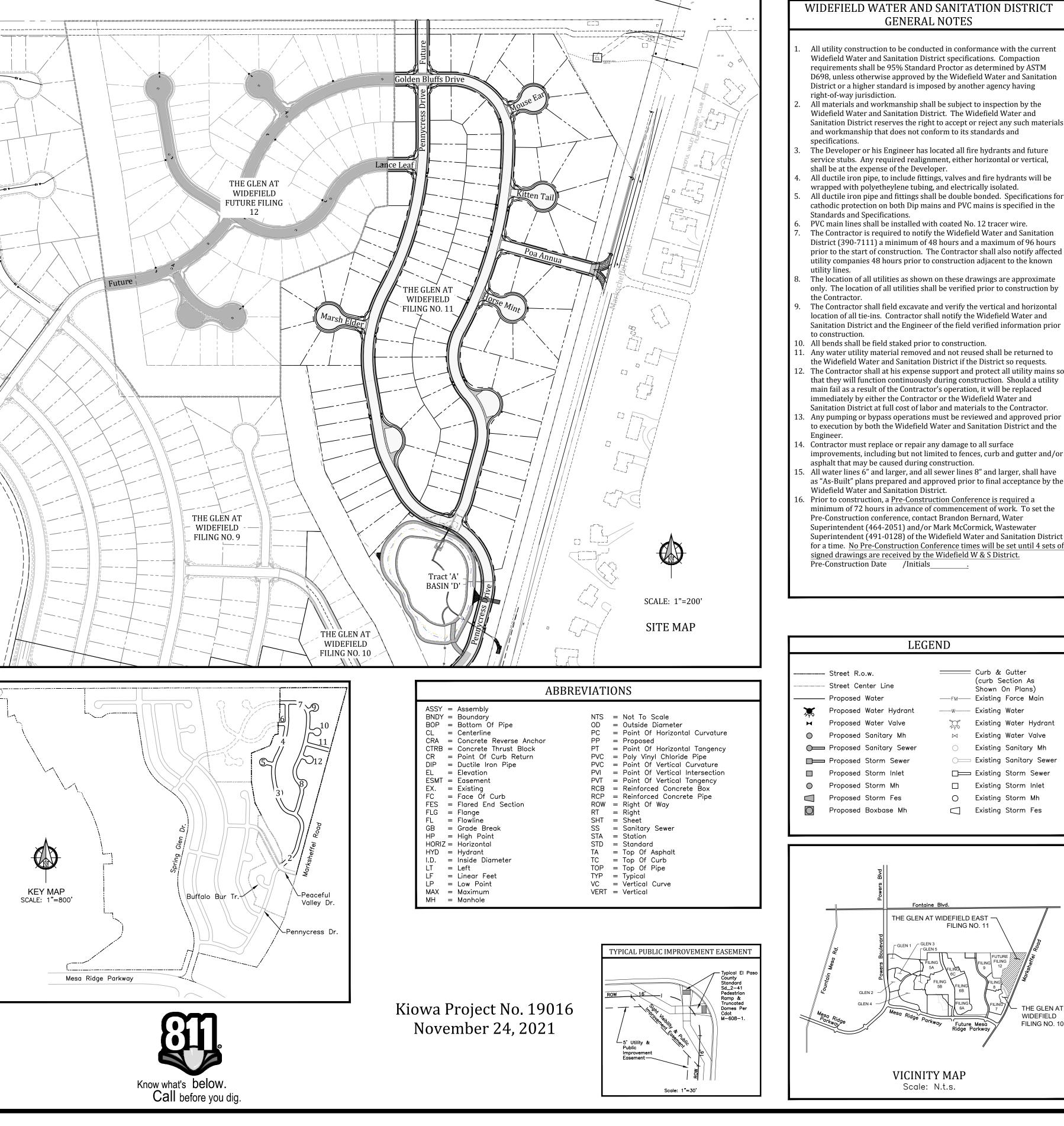
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THE GLEN AT WIDEFIELD FILING NO 11 SHEET INDEX

- Cover Sheet
- Plan & Profile Pennycress Drive
- Plan & Profile Pennycress Drive & Knuckle
- Plan & Profile Pennycress Drive
- Plan & Profile Marsh Elder Place
- Plan & Profile LanceLeaf Drive
- Plan & Profile Golden Buffs Drive
- Plan & Profile Golden Buffs Drive
- Plan & Profile Mouse Ear Place
- Plan & Profile Kitten Tail Court Plan & Profile - Poa Annua
- Plan & Profile Horse Mint Trail 12
- Signing & Striping Plan Overall
- Storm Sewer Plan Golden Buffs Drive Trunkline
- Storm Sewer Plan Golden Buffs Drive Trunkline
- Storm Sewer Plan Laterals 'B', 'C', & 'D' 16 Storm Sewer Plan - Lateral 'G' & Inflow Lateral 'H'
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THE GLEN AT WIDEFIELD FILING NO. 11 **RESIDENTIAL SUBDIVISION CONSTRUCTION DRAWINGS** PREPARED FOR WIDEFIELD INVESTMENT GROUP

STATEMENTS

Design Engineer's 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 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. Face pt responsibility for any liability caused by any negligent acts, errors or omissions of my part in preparation of these detailed plans and specifications. V. W. Nov 25057 Nov. 29, 2021



Owner/Developer's State

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

J. Ryan Watson, Asst Vice President Glen Development Company 3 Widefield Boulevard

Colorado Springs, Colorado 80911

El Paso County:

Dec 30th 2021 Date

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, and Engineering Criteria Manual as amended.

In accordance with ECM Section 1.12, these construction documents will be valid for construction for a period of 2 years from the date signed by the El Paso County Engineer. If construction has not started within those 2 years, the plans will need to be resubmitted for approval, including payment of review fees at the Planning and Community Development Directors discretion. */** APPROVED

Iennifer Irvine, P.E. County Engineer / ECM Administrator

*see notes on eering Department sheets 11 and 13 01/18/2022 3:27:05 PM dsdnijkamp **caution tape shall be provided where

minimum cover is not provided over storm

WATER AND SEWER MAIN EXTENSIONS Any changes or alterations affecting the grade, alignment, elevation and/or depth of cover of any water or sewer mains or other appurtenance shown on this drawing shall be the responsibility of the Owner/Developer. The Owner/Developer shall be responsible for all operational damages and defects in installation and material for mains and services from the date of approval until final acceptance is issued.

UTILITY APPROVALS

Dec 30th, 2021 Date

Print Name <u>J. Ryan Watson</u>

DBA: GLEN DEVELOPMENT COMPANY

Address: 3 Widefield Boulevard Colorado Springs, CO 80911 (719) 392–0194

FIRE AUTHORITY APPROVAL

The number of fire hydrants and hydrant locations shown on this water installation plan are correct and adequate to satisfy the fire protection requirements as specified by the Fire District serving the property noted on the plans.

DISTRICT APPROVALS

The Widefield Water and Sanitation District recognizes the design engineer as having responsibility for the design. The Widefield Water and Sanitation District has limited its scope of review accordingly.

In case of errors or omissions with the sewer design as shown on this document the standards as defined in the "Rules and Regulations for Installation of Sewer Mains and Services" shall rule.

In case of errors or omissions with the sewer design as shown on this document the standards as defined in the "Rules and Regulations for Installation of Sewer Mains and Services" shall rule. Approval expires 180 days from Design Approval

GOVERNING AGENCIES

El Paso County Planning & Community **Development Department** 2880 International Circle Suite 110 Colorado Springs Colorado (719) 520-6300

Widefield Water & Sanitation District 37 Widefield Blvd. Colorado Springs, Colorado (719) 390-7111

DEVELOPER:

WIDEFIELD **3 WIDEFIELD BOULEVARD** COLORADO SPRINGS, CO 80911 Black Hills Energy 18965 Bas Camp Road Unit A7 Monument, Colorado (719) 359-0586

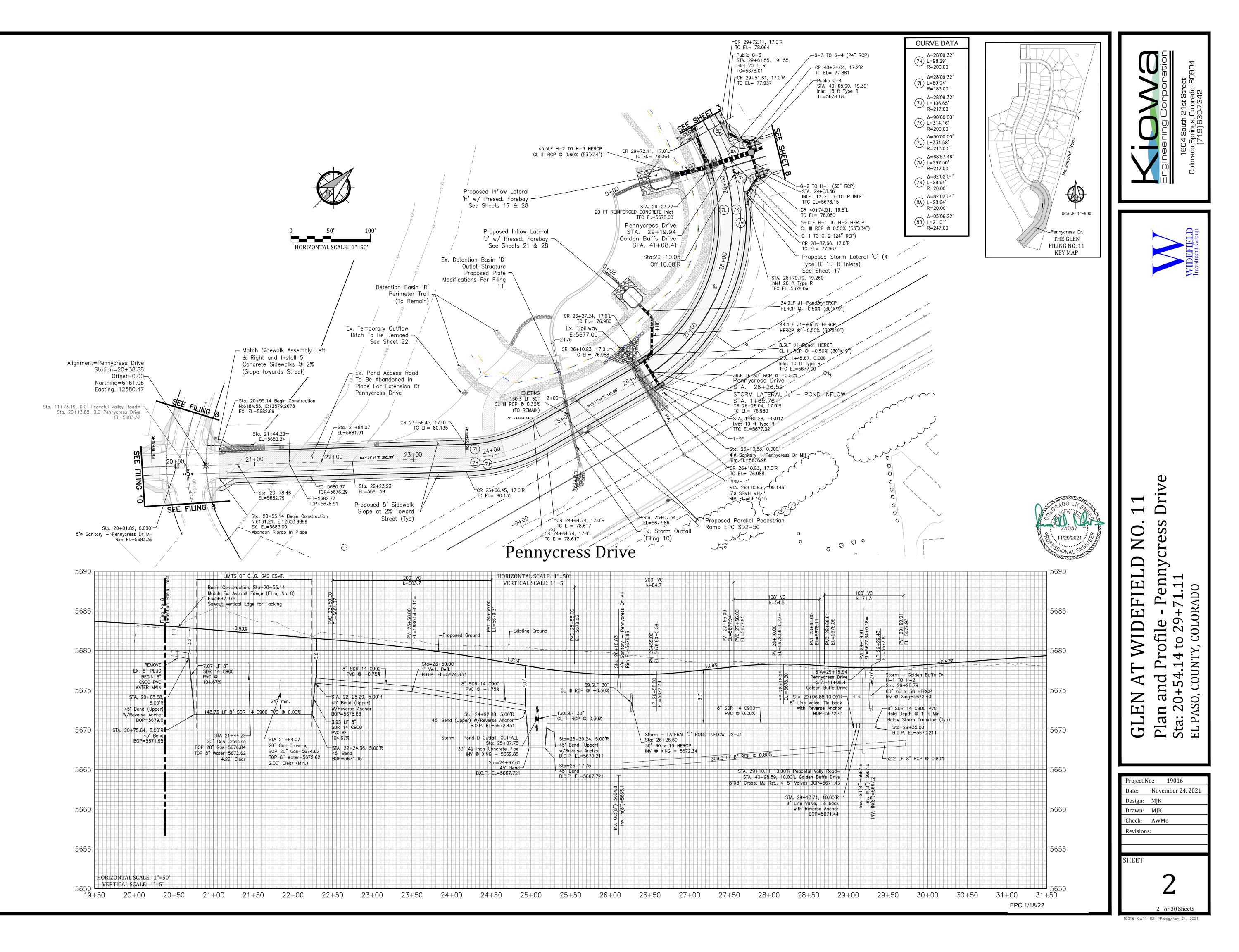
Mountain View Electric Association 11140 East Woodmen Road Falcon, Colorado (719) 495-2283

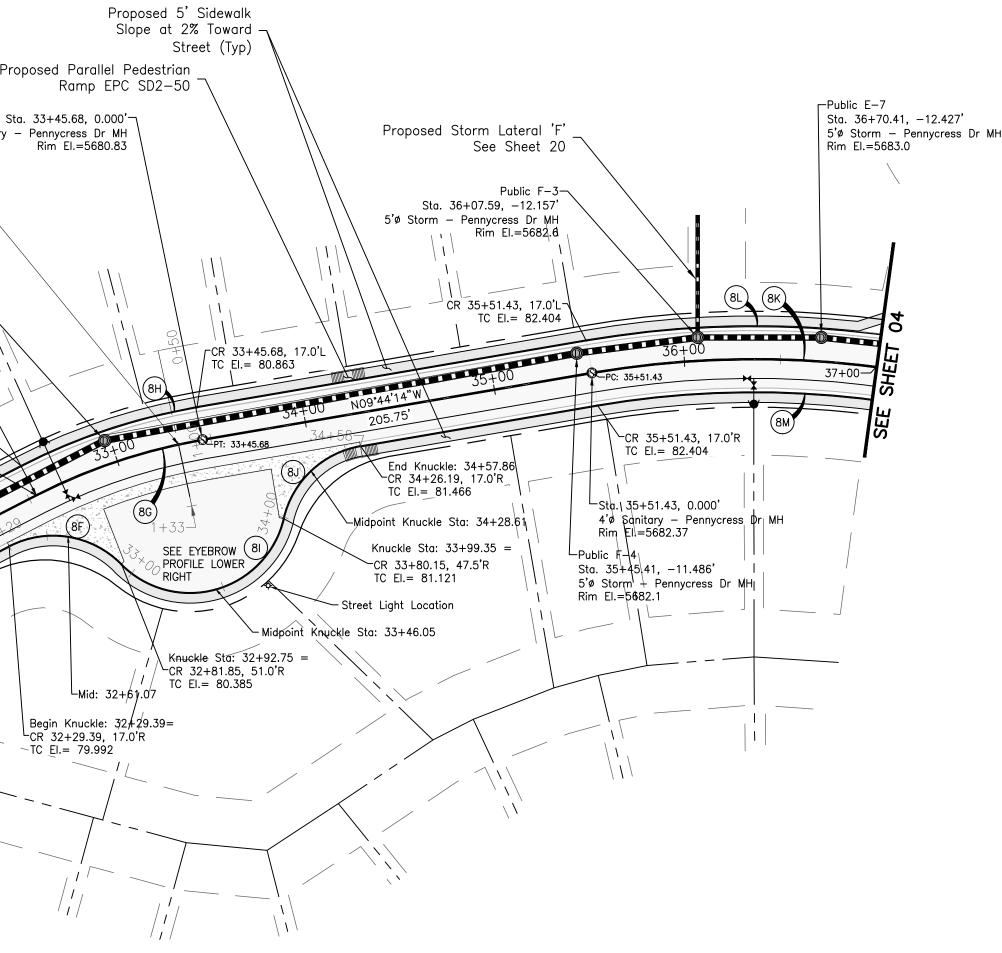


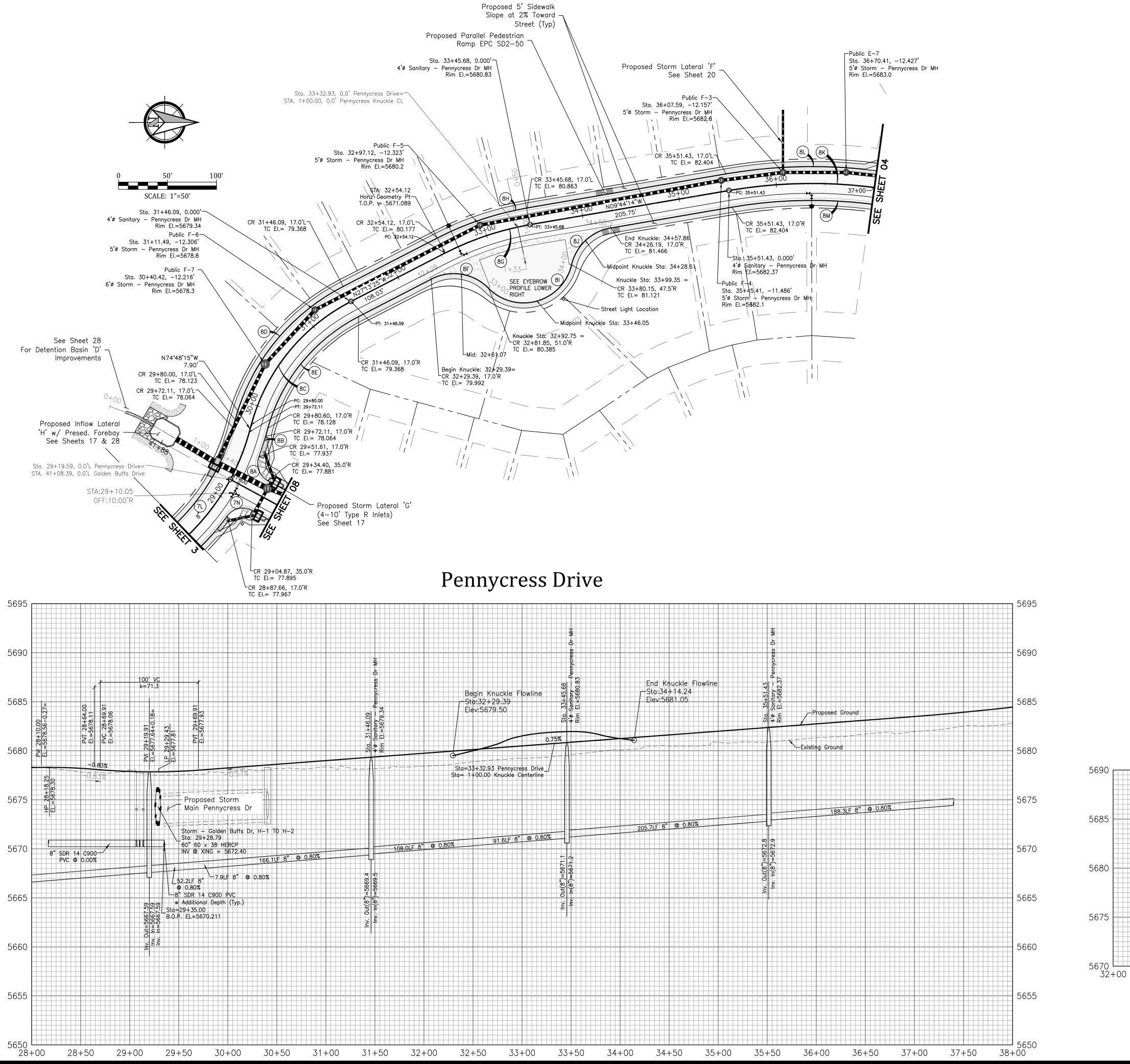


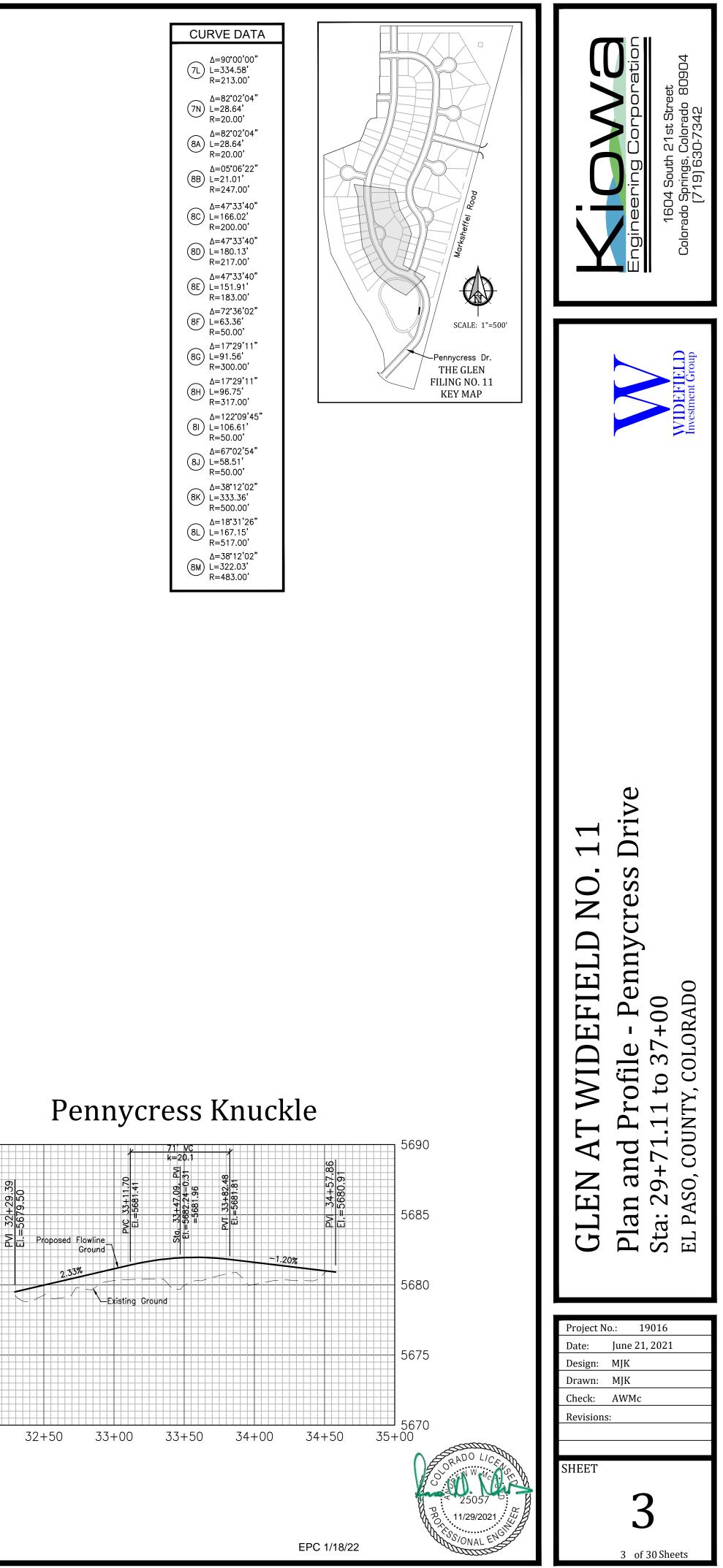
1604 South 21st Street Colorado Springs, Colorado 80904 (719) 630-7342

PCD File No. SF-20-004

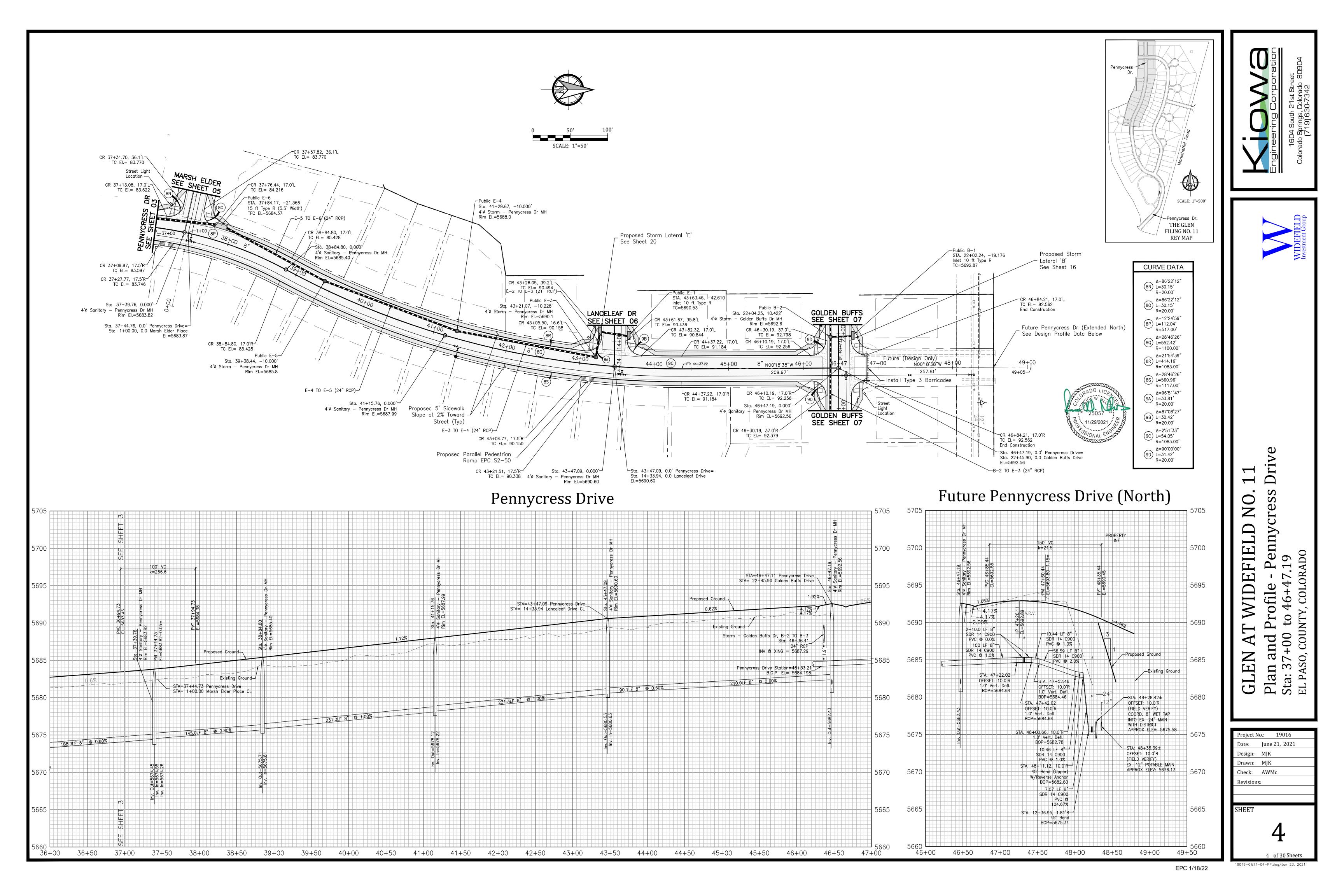


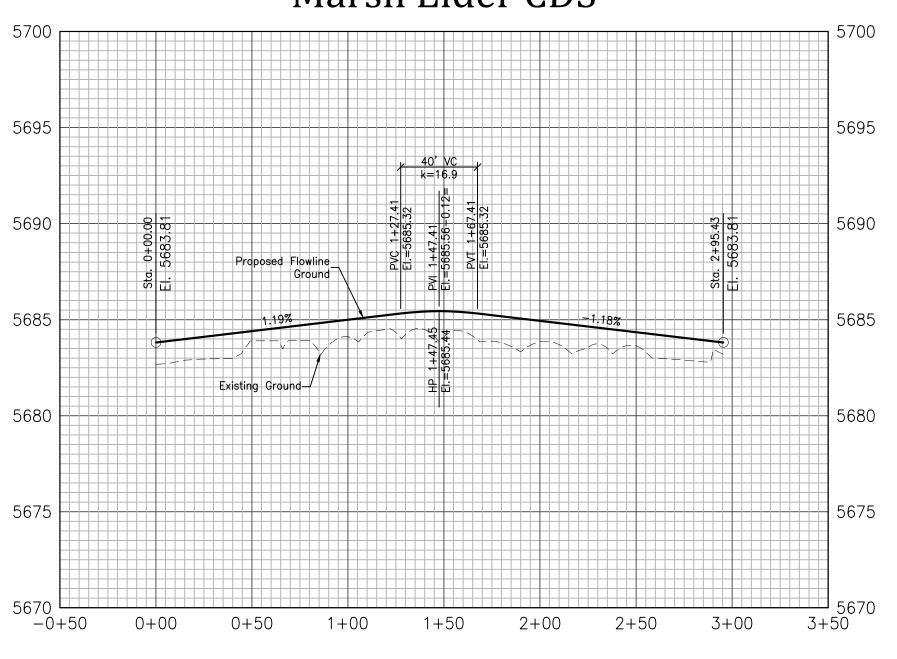




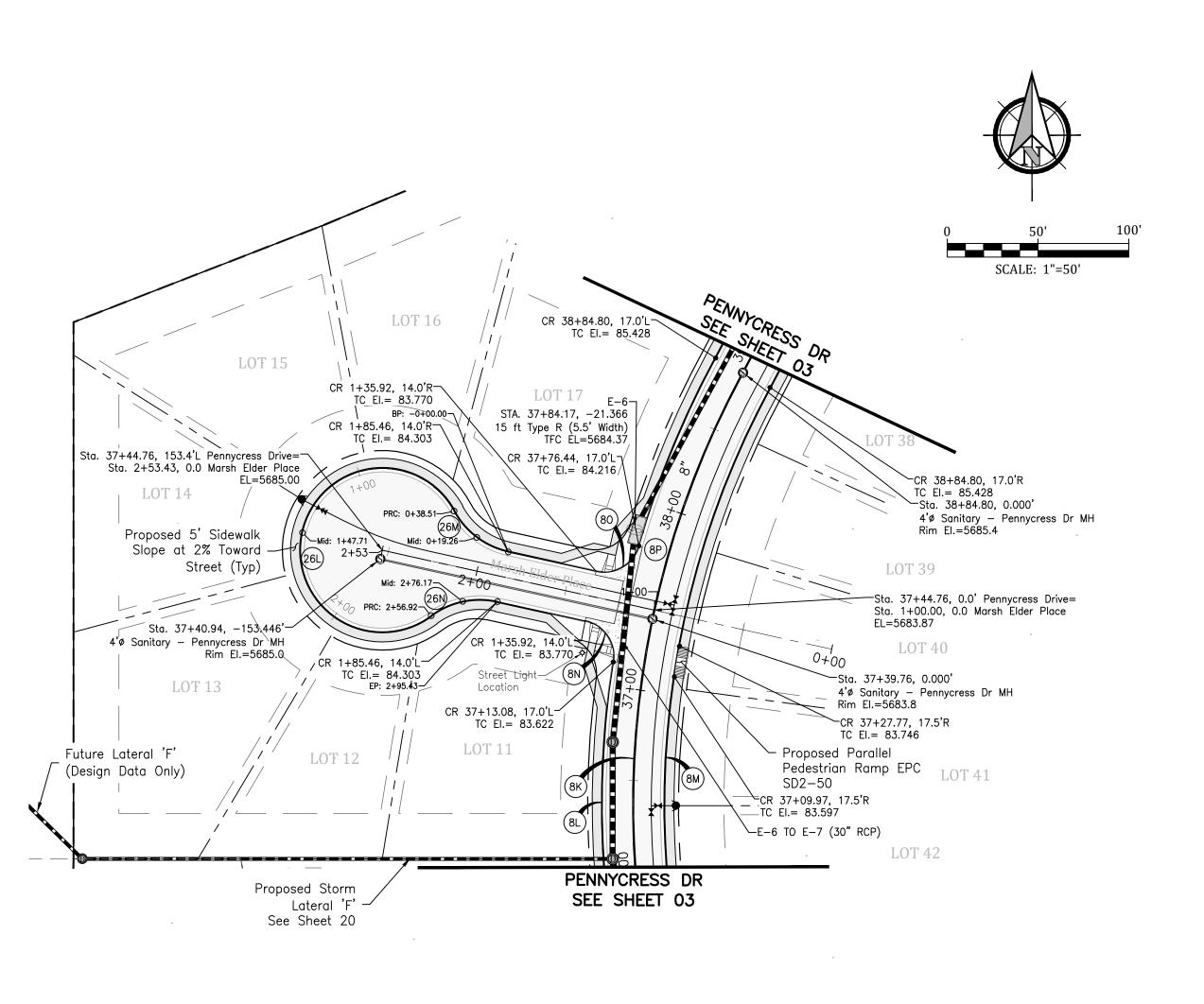


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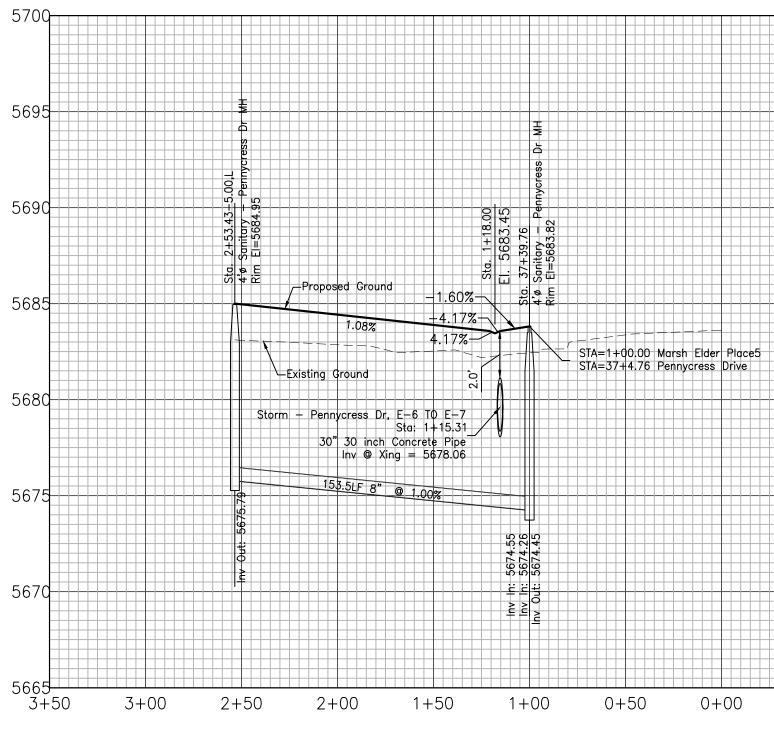


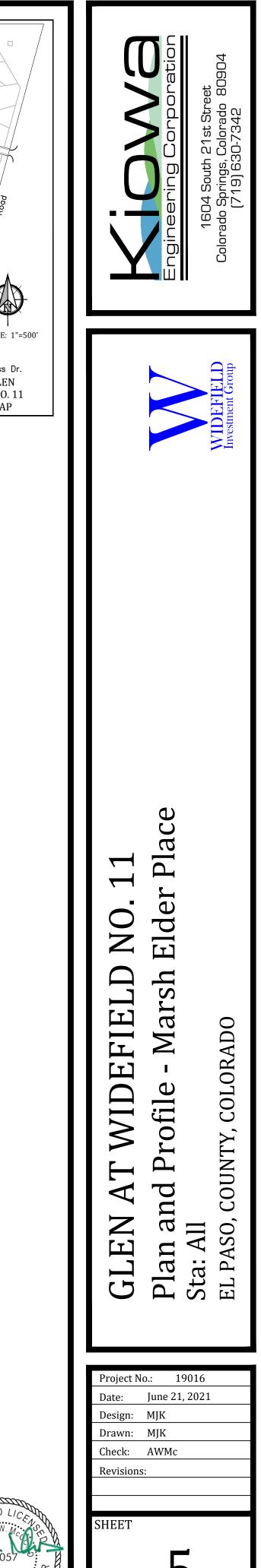


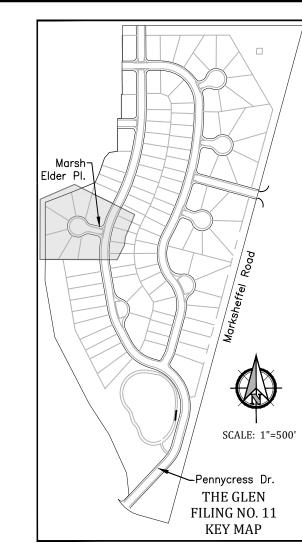
Marsh Elder CDS



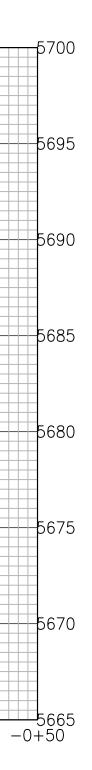








CURVE DATA
(8K) Δ=38°12'02" L=333.36' R=500.00'
(8L) Δ=18'31'26" L=167.15' R=517.00'
Δ=38°12'02" (8M) L=322.03' R=483.00'
(8N) Δ=86°22'12" L=30.15' R=20.00'
(80) Δ=86'22'12" L=30.15' R=20.00'
(8P) Δ=12 [•] 24 ['] 59" L=112.04' R=517.00'
Δ=278'04'35" L=218.40' R=45.00'
26M Δ=49'02'18" L=38.51' R=45.00'
$(26N) \begin{array}{c} \Delta = 49^{\circ}02'18" \\ L = 38.51' \\ R = 45.00' \end{array}$

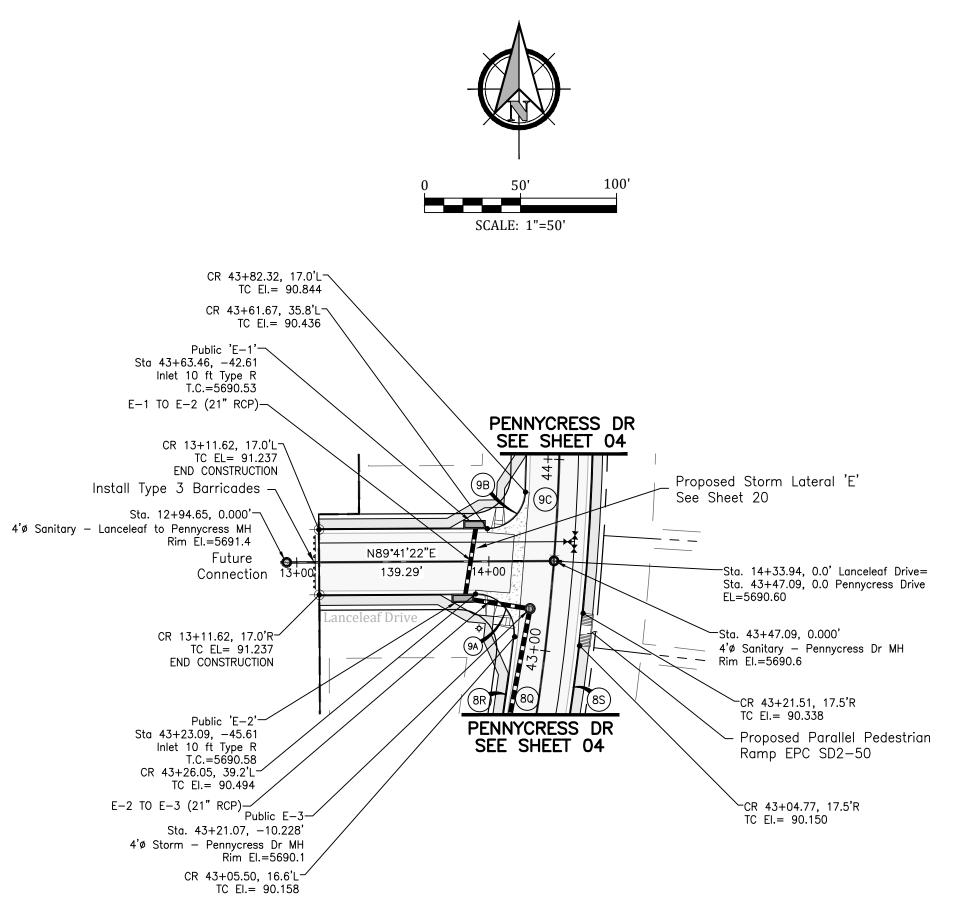


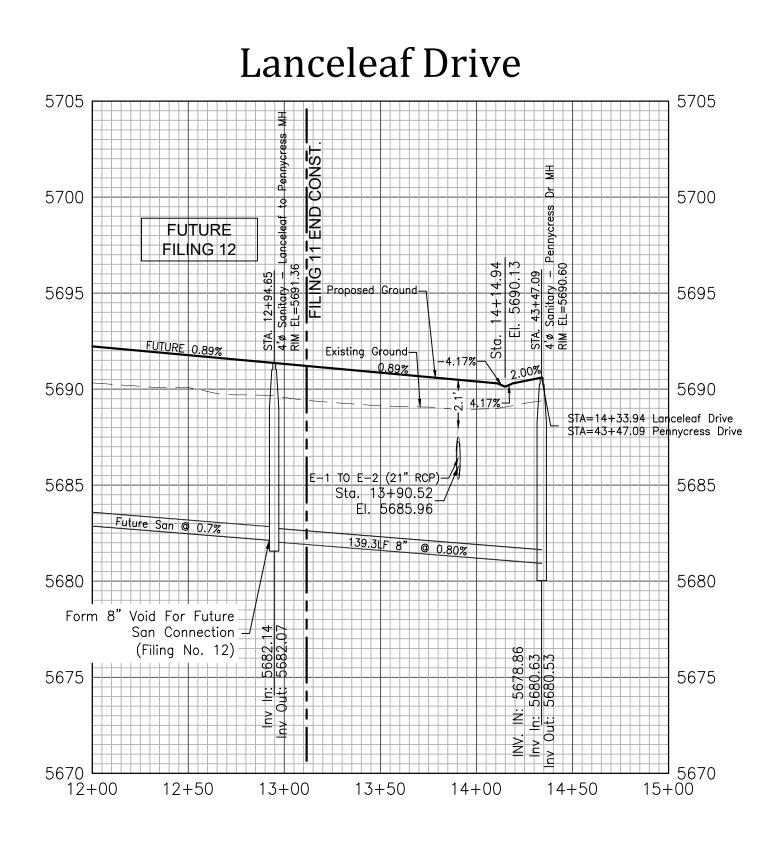
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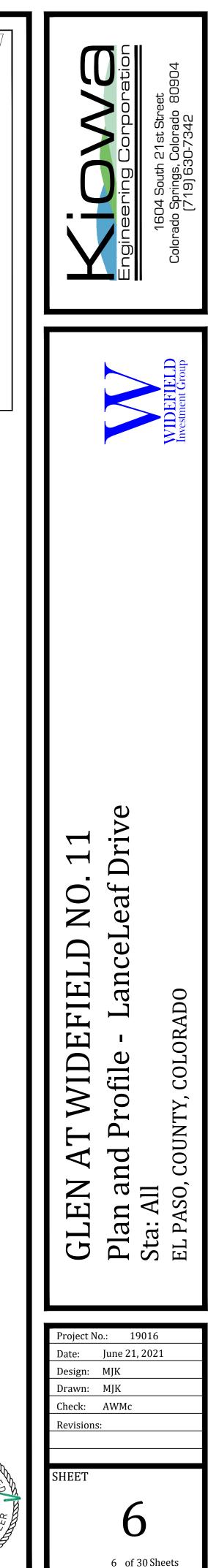
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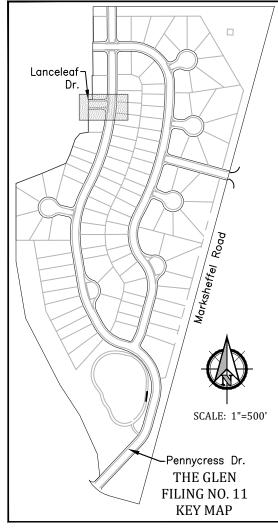
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CUF	RVE DATA
(8Q)	∆=28°46'26" L=552.42' R=1100.00'
(8R)	∆=21°54'39" L=414.16' R=1083.00'
(85)	∆=28°46'26" L=560.96' R=1117.00'
(9A)	∆=96'51'47" L=33.81' R=20.00'
(9B)	∆=87'08'27" L=30.42' R=20.00'
90	∆=2°51'33" L=54.05' R=1083.00'

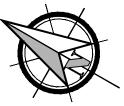


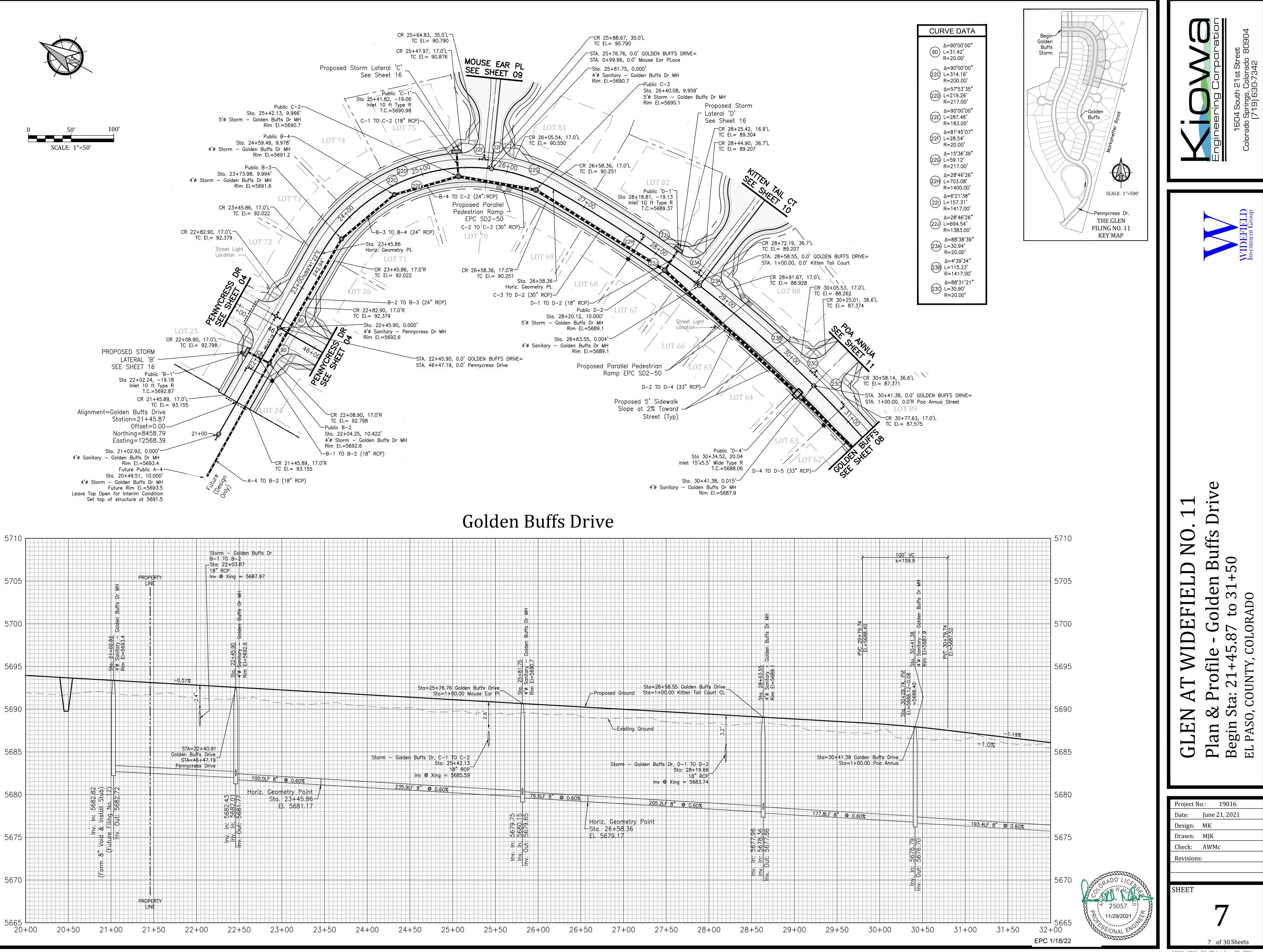


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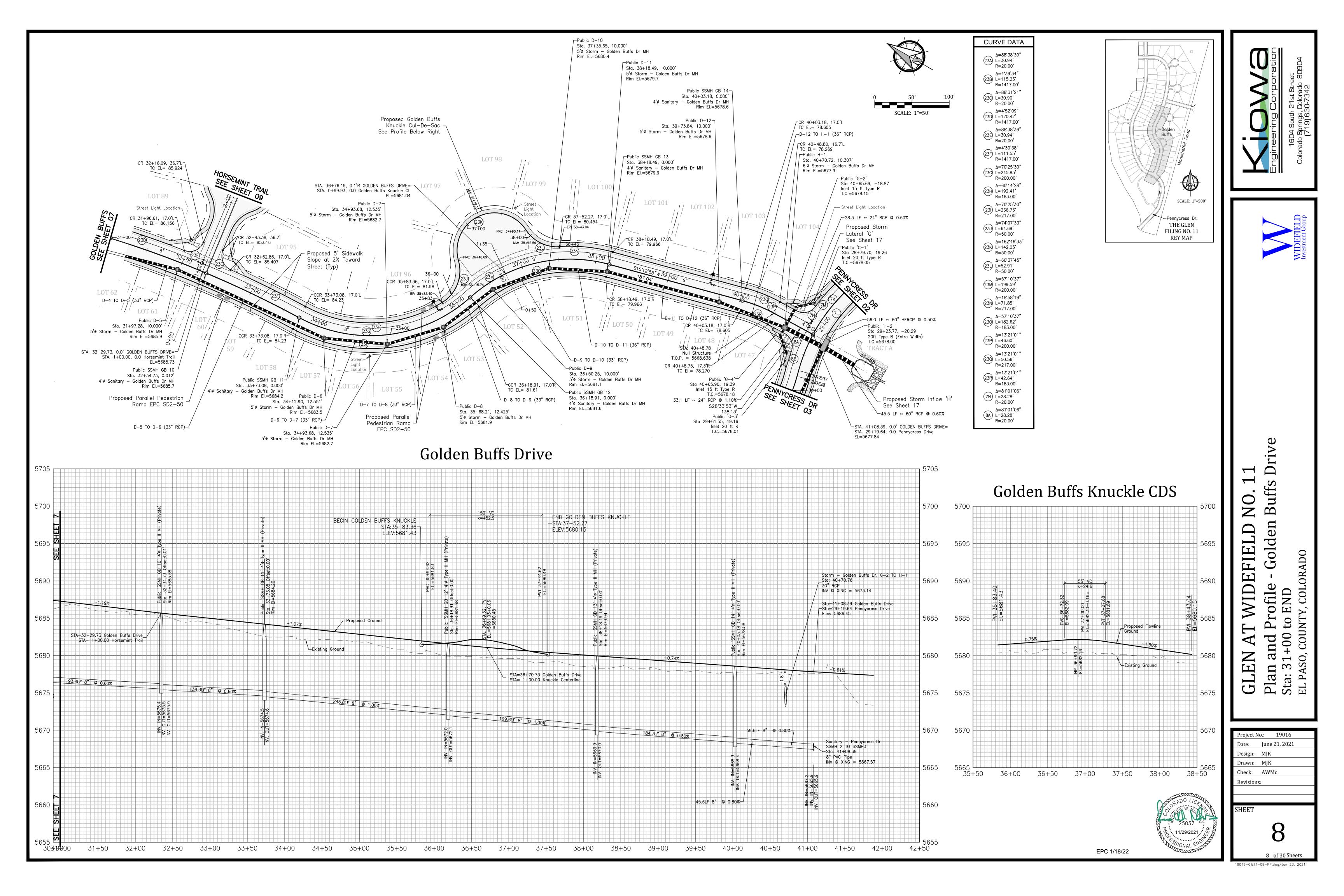
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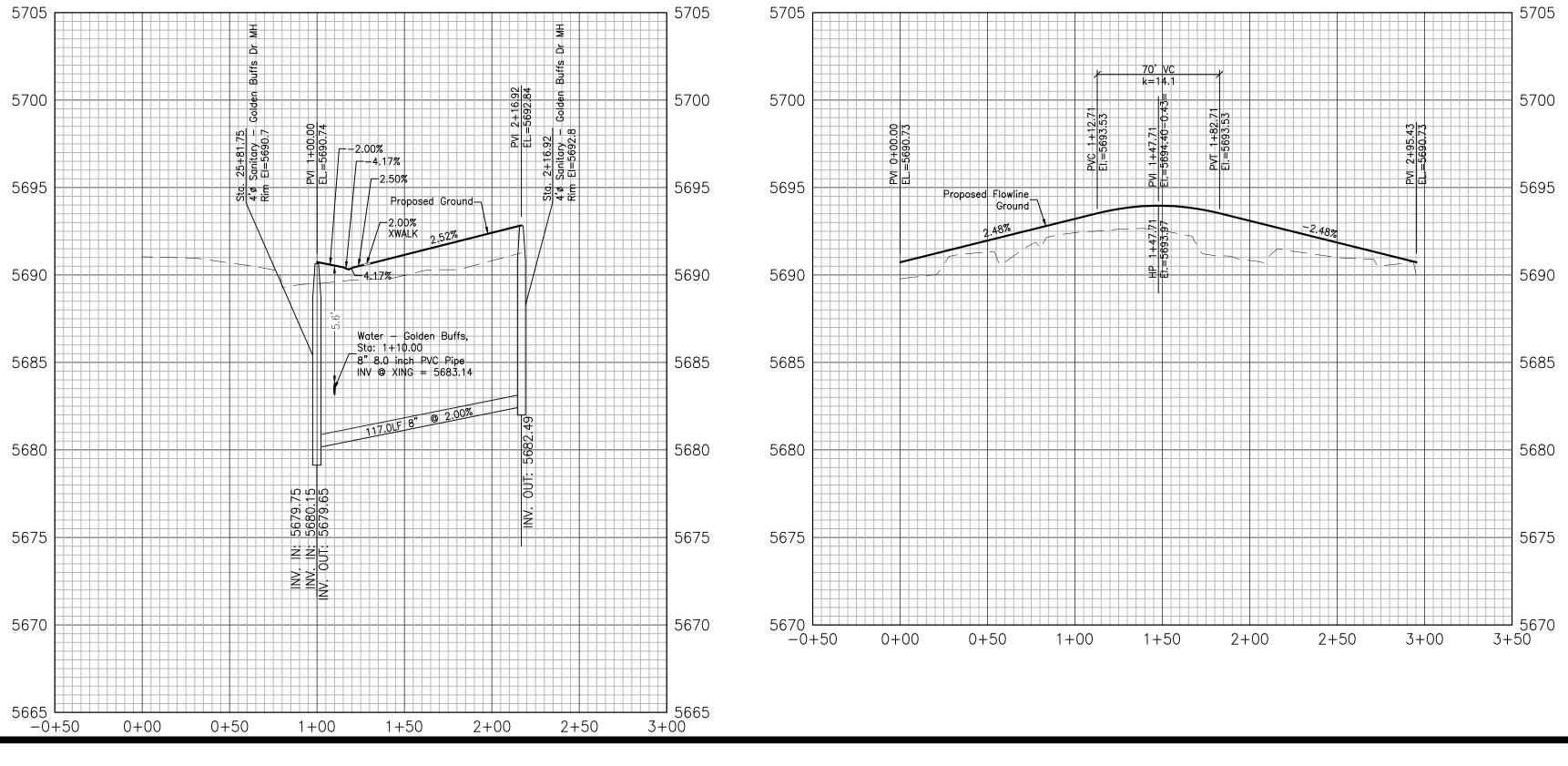


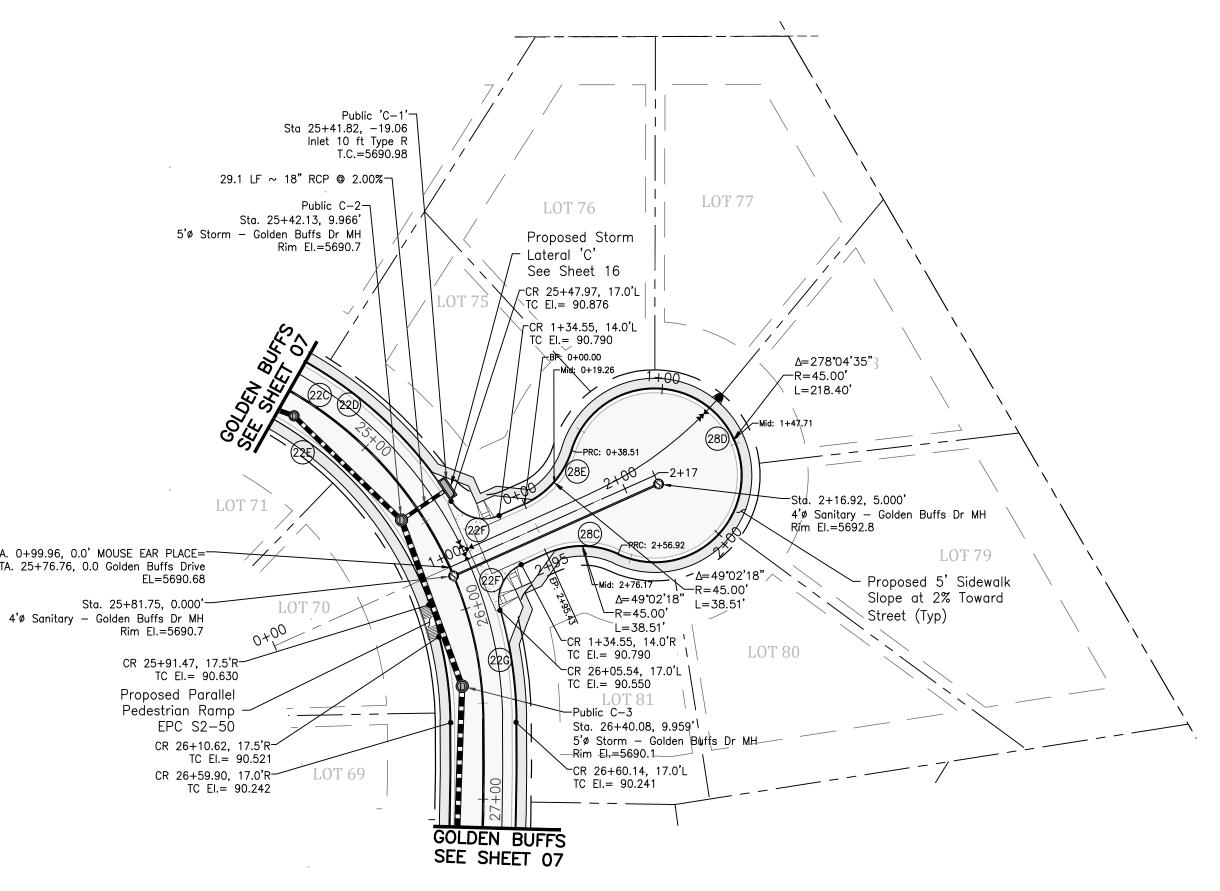
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EL=5690.68 Sta. 25+81.75, 0.000'-

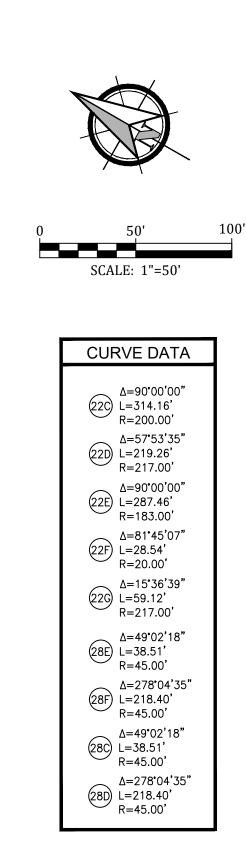
> Rim El.=5690.7 Proposed Parallel

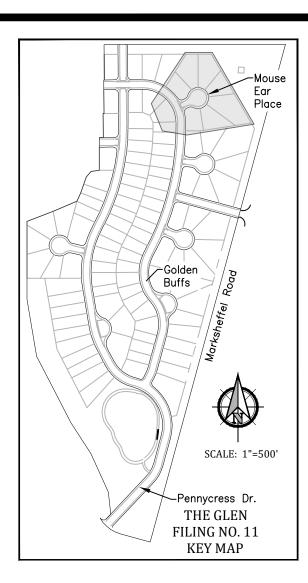


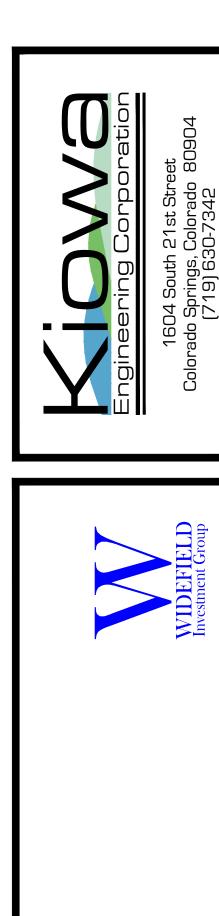


Profile View of Mouse Ear PLace

Profile View of Mouse Ear Place CDS



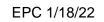




 $\overline{}$ Pla Τ -NO ar ГЦ Mouse WIDEFIELD COLORADO rofile **COUNTY**, \frown H q A GLEN **Plan a** Sta: All EL PASO,

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Project N	lo.: 19016
Date:	June 21, 2021
Design:	МЈК
Drawn:	МЈК
Check:	AWMc
Revision	s:
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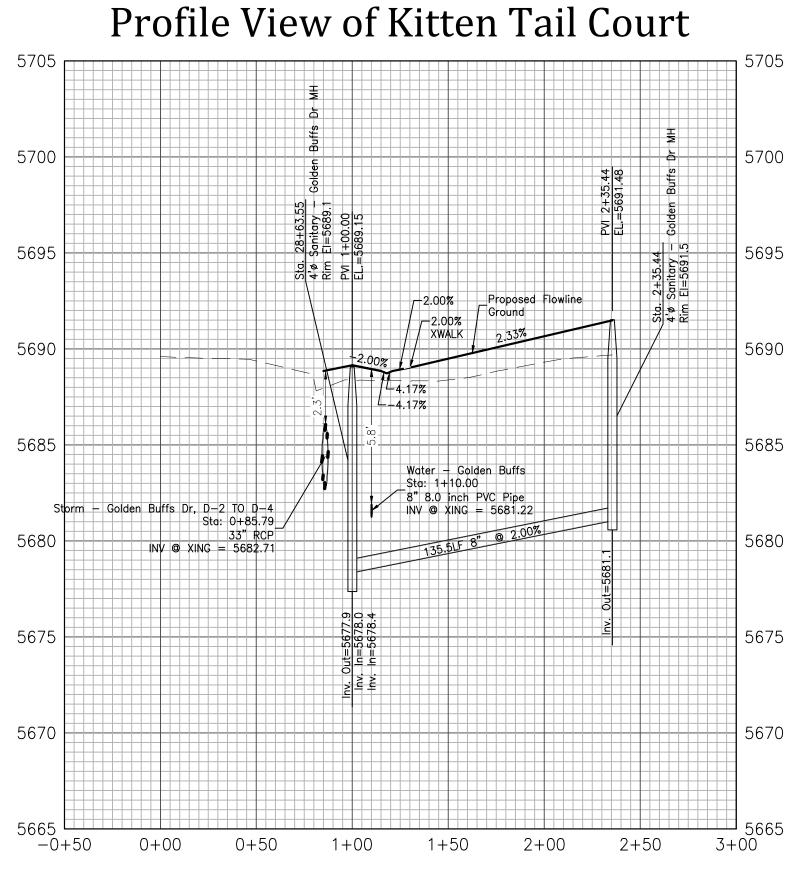
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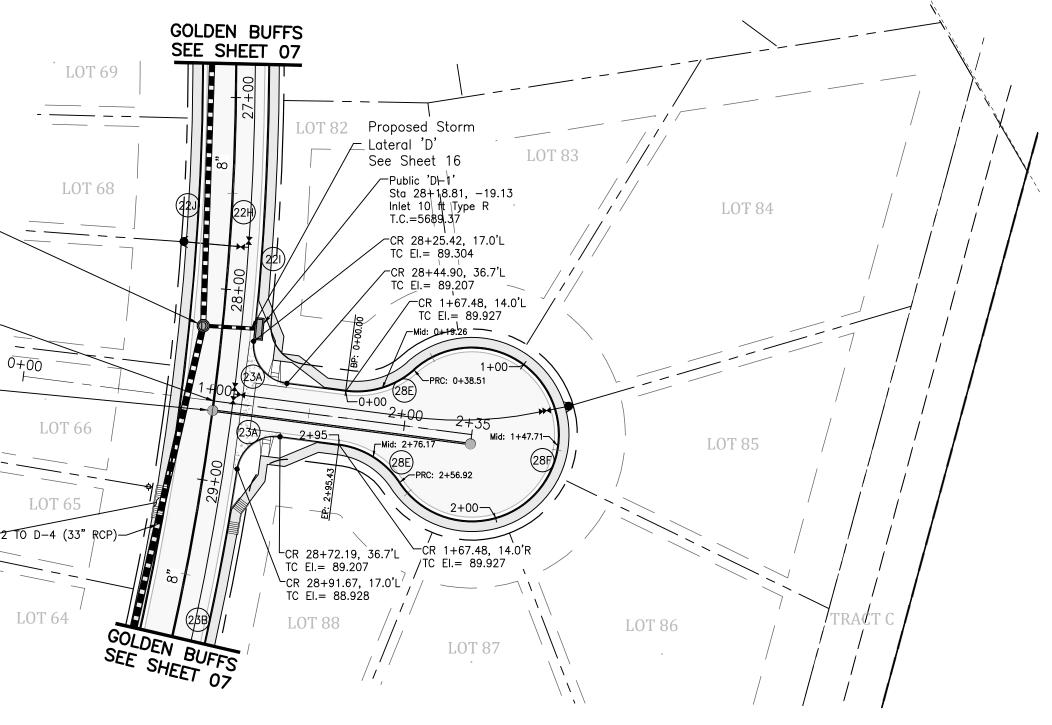
Public D-2-Sta. 28+20.12, 10.000' 5'ø Storm – Golden Buffs Dr MH Rim El.=5689.1

STA. 1+00.00, 0.0' KITTEN TAIL COURT=--STA. 28+58.55, 0.0 Golden Buffs Drive EL=5689.09

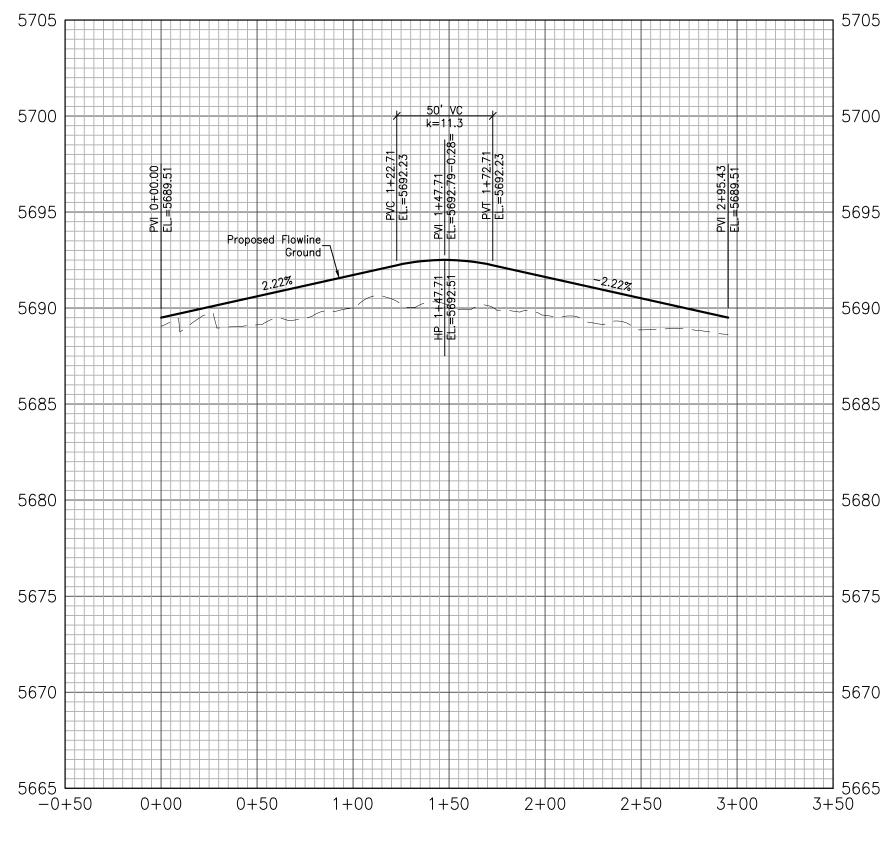
Sta. 28+63.55, 0.004'— 4'ø Sanitary – Golden Buffs Dr MH Rim El.=5689.1

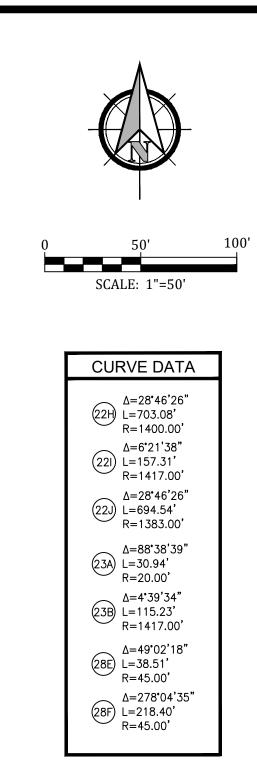
Proposed Parallel Pedestrian Ramp <u>– D-2 TO D-4 (33" RCP)</u> EPC SD2-50

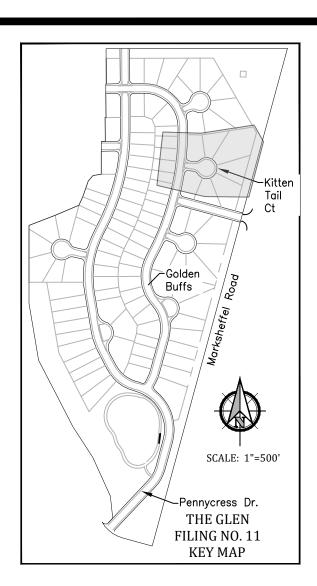




Profile View of Kitten Tail Court CDS











Cou $\overline{}$ NO Tail WIDEFIELD Kitten COLORADO rofile COUNTY C GLEN Plan a Sta: All EL PASO,

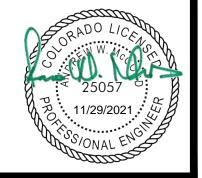
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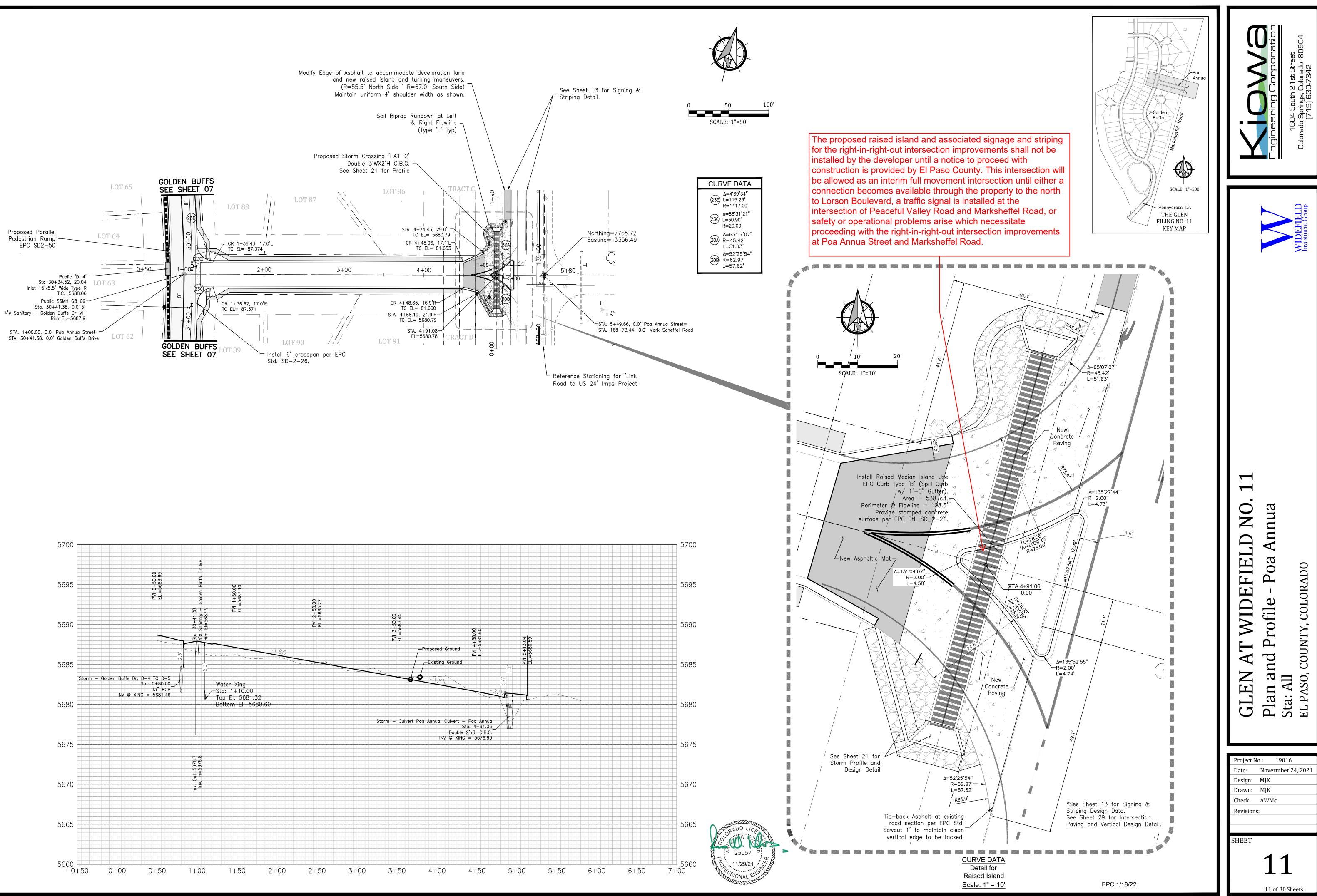
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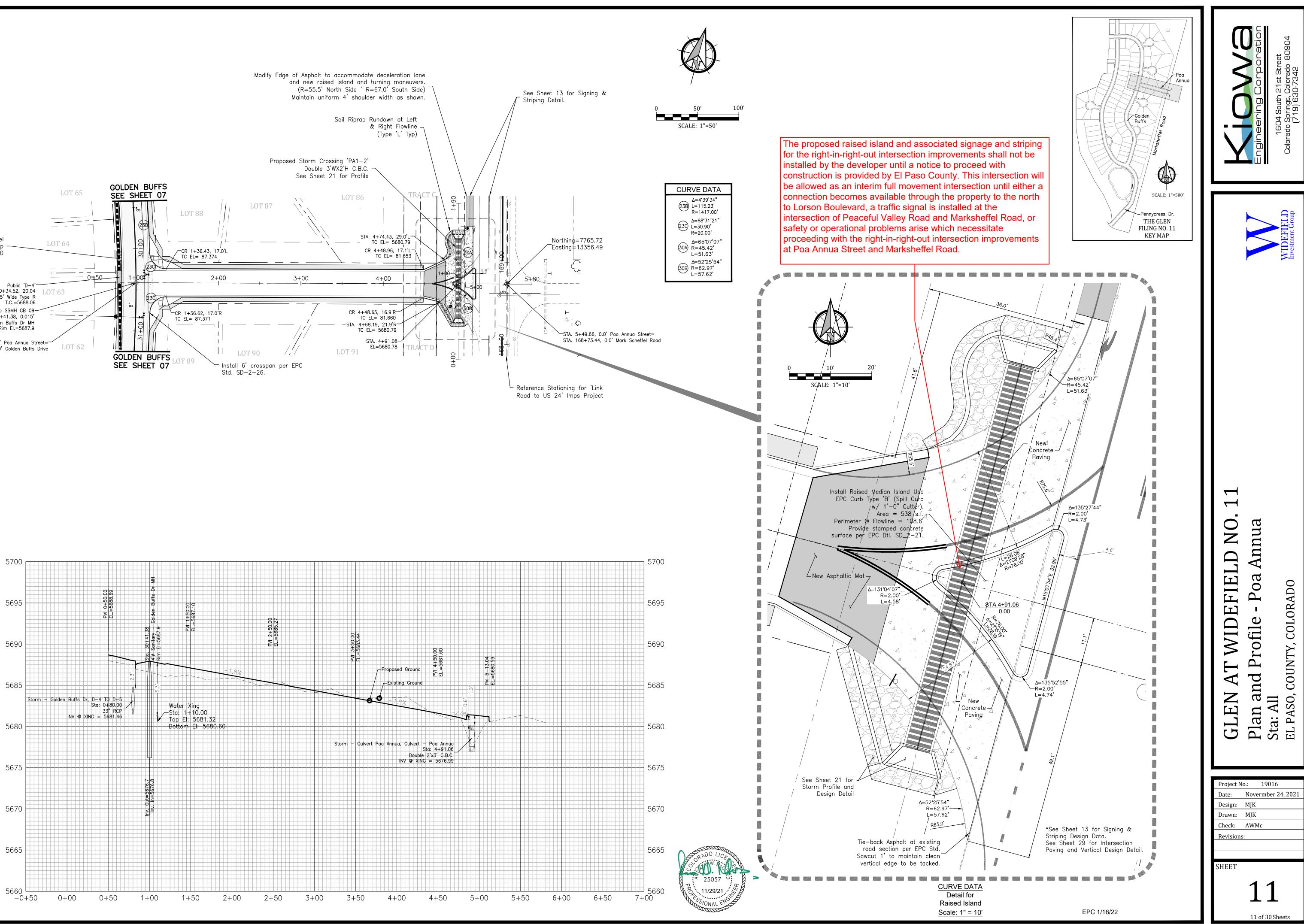
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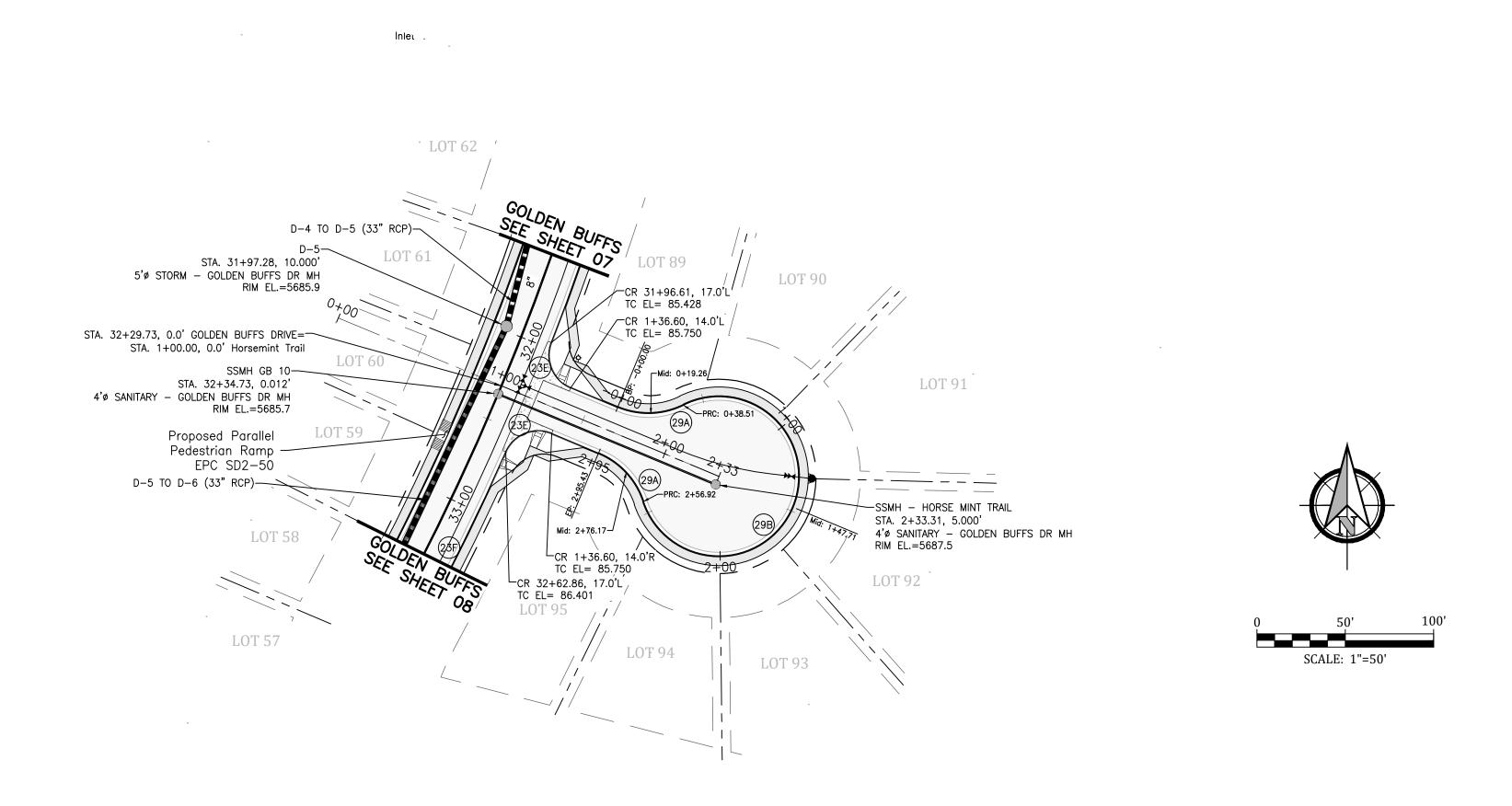
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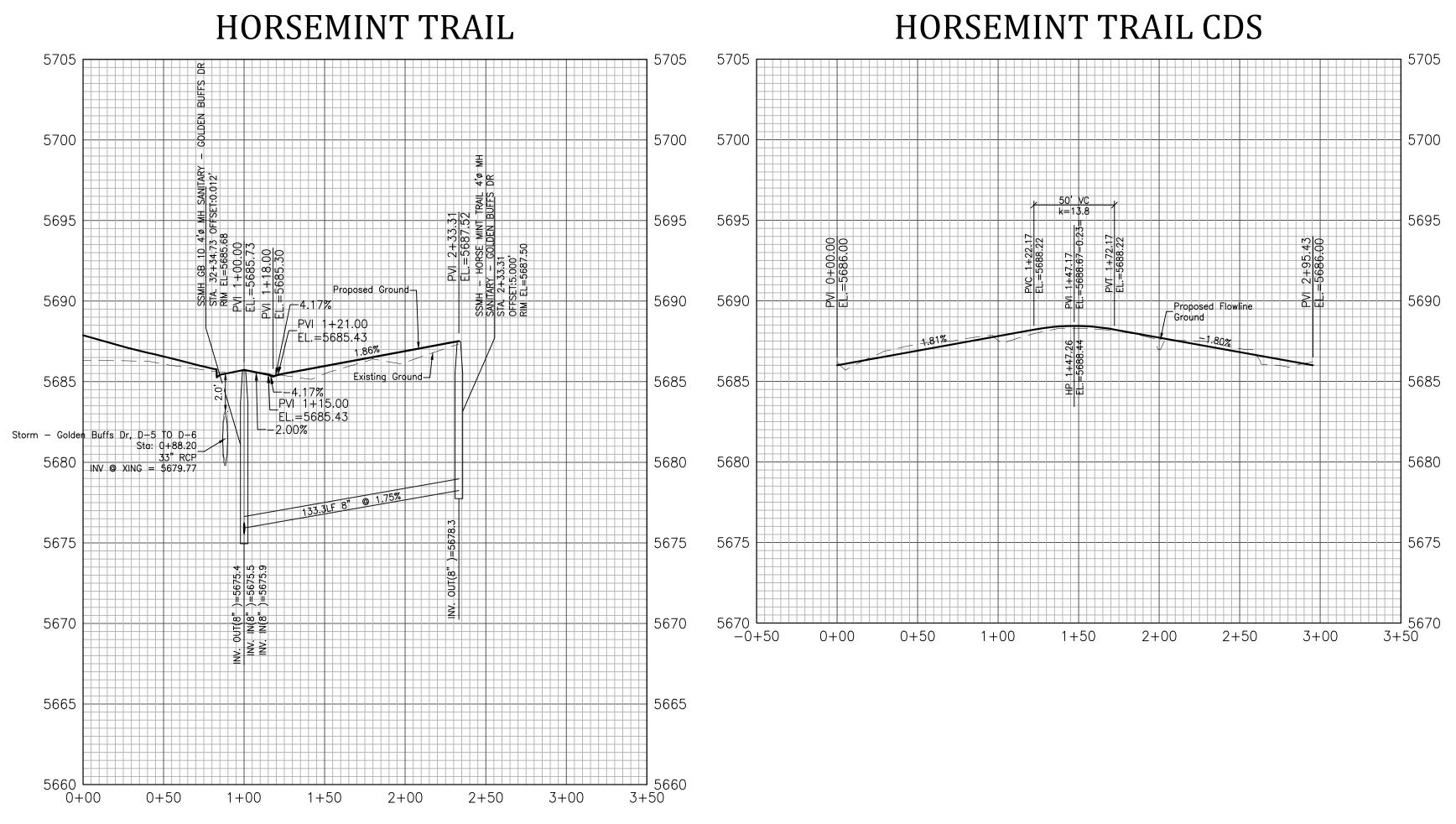


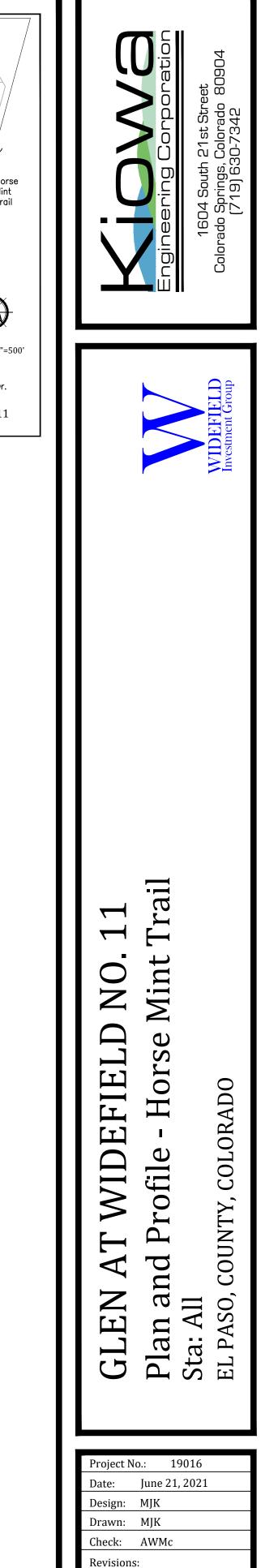


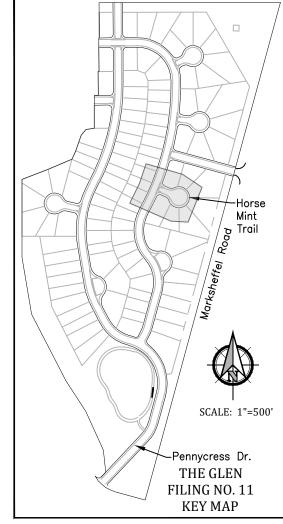


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CURVE DATA (29A) Δ=49'02'18" L=38.51' R=45.00' Δ=278*04'35" L=218.40' R=45.00' Δ=88*31'21" L=30.90' R=20.00' Δ=4*52'09" L=120.42' R=1417.00' Δ=88'38'39" L=30.94' R=20.00' Δ=4*30'38" L=111.55' R=1417.00'



EPC 1/18/22

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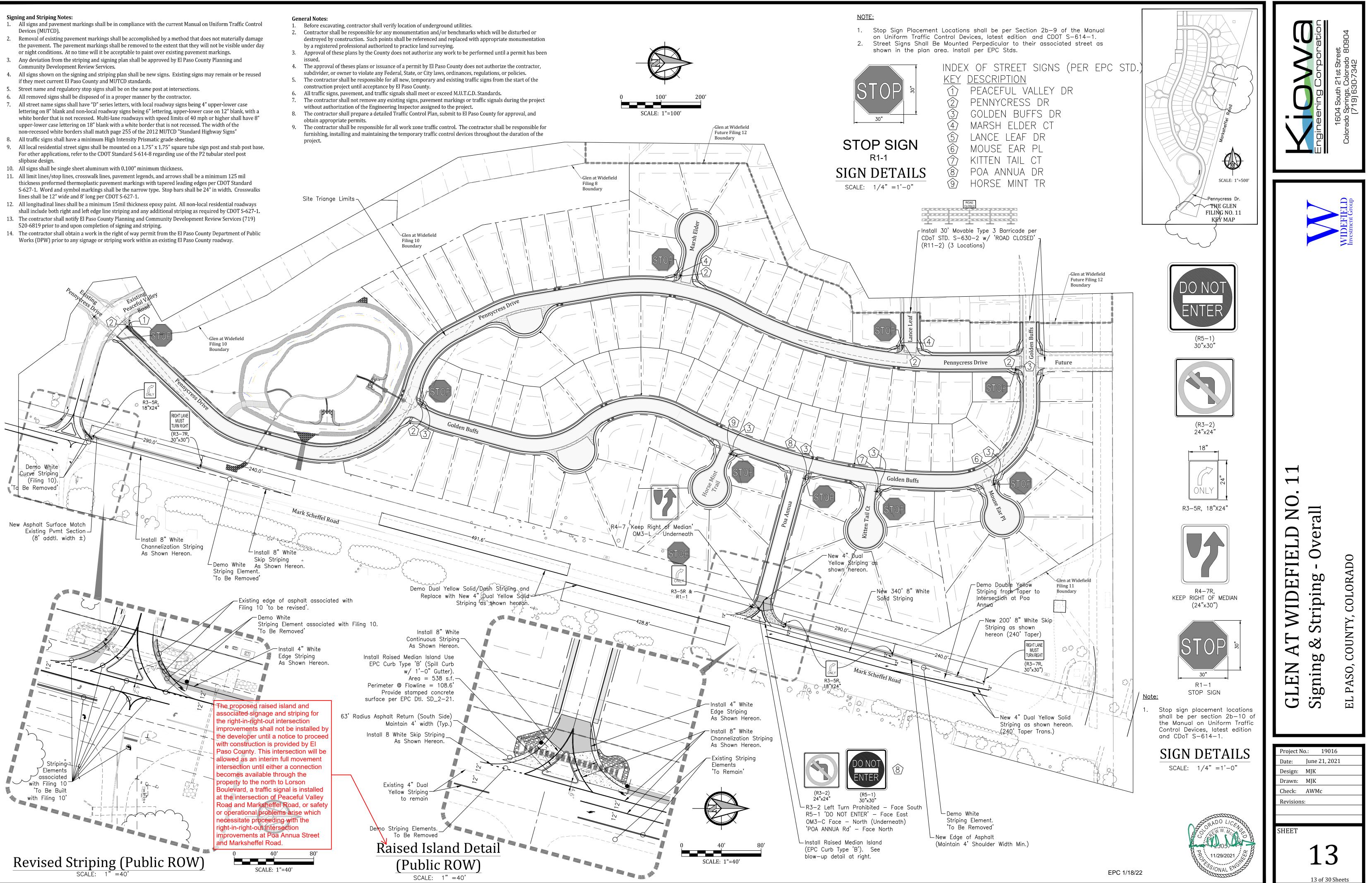
SHEET

- Devices (MUTCD).
- 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.
- Community Development Review Services.
- if they meet current El Paso County and MUTCD standards.
- All street name signs shall have "D" series letters, with local roadway signs being 4" upper-lower case upper-lower case lettering on 18" blank with a white border that is not recessed. The width of the non-recessed white borders shall match page 255 of the 2012 MUTCD "Standard Highway Signs"
- For other applications, refer to the CDOT Standard S-614-8 regarding use of the P2 tubular steel post
- thickness preformed thermoplastic pavement markings with tapered leading edges per CDOT Standard

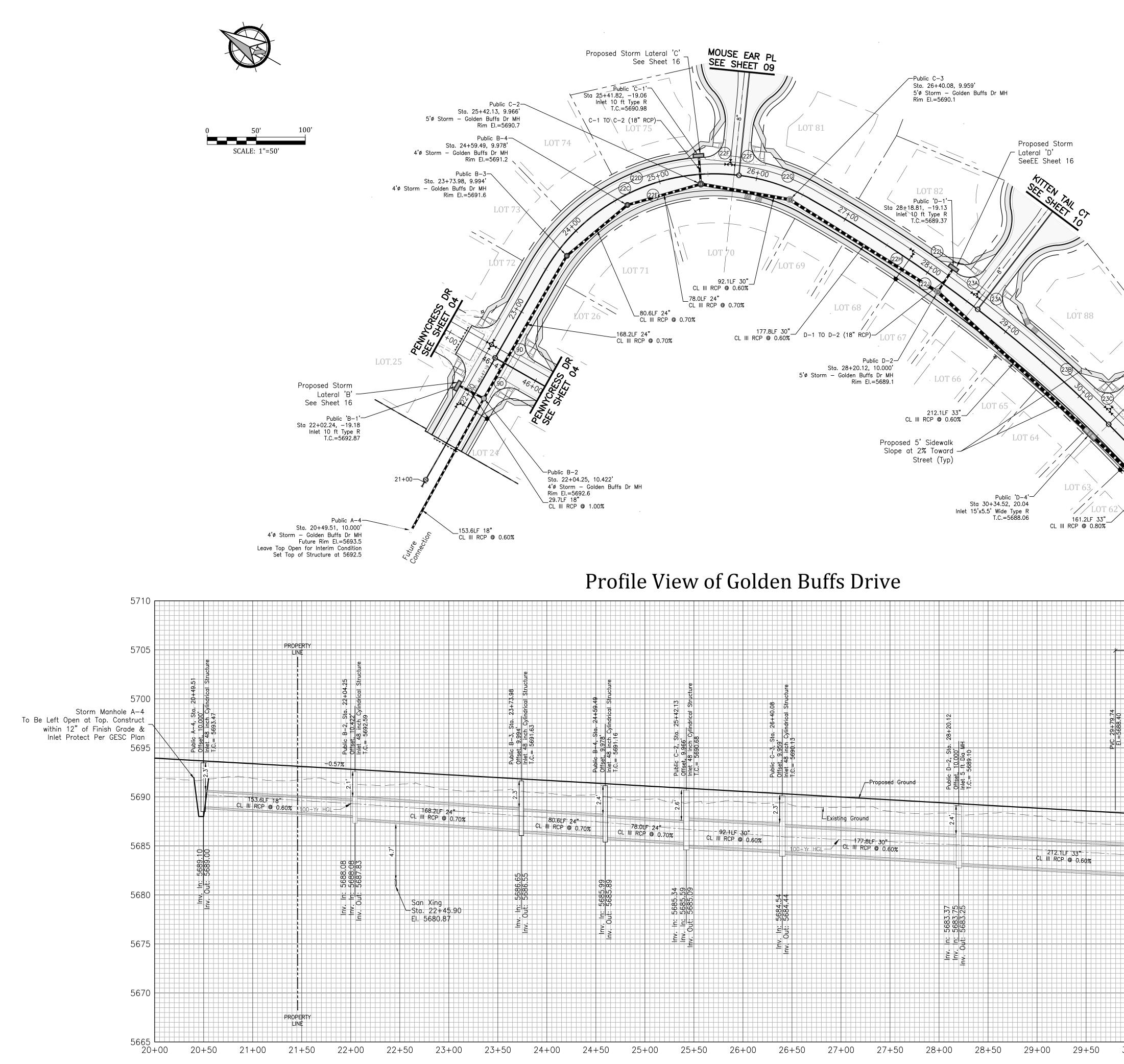
- 520-6819 prior to and upon completion of signing and striping.

- by a registered professional authorized to practice land surveying.
- issued

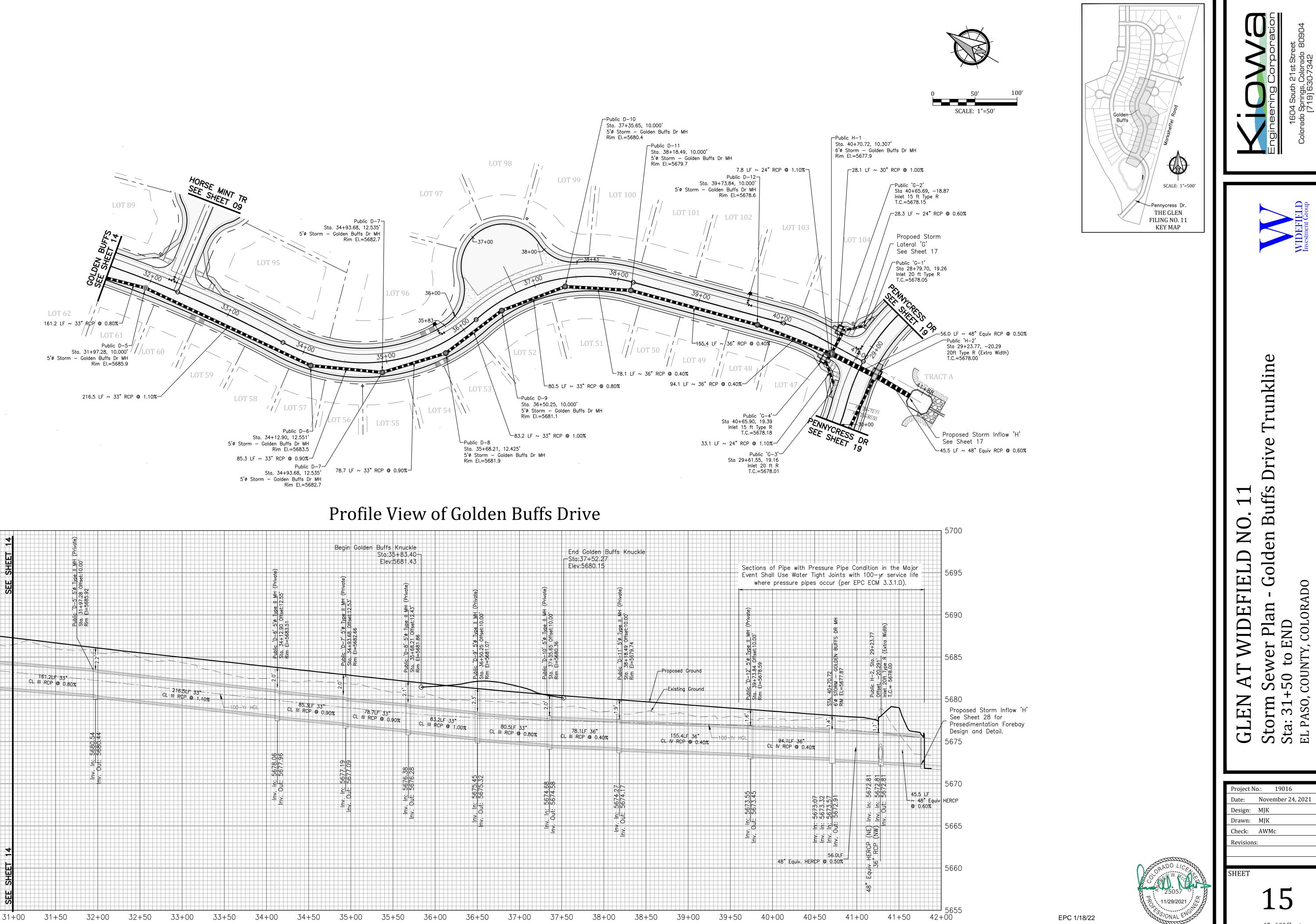
- obtain appropriate permits.
- project.

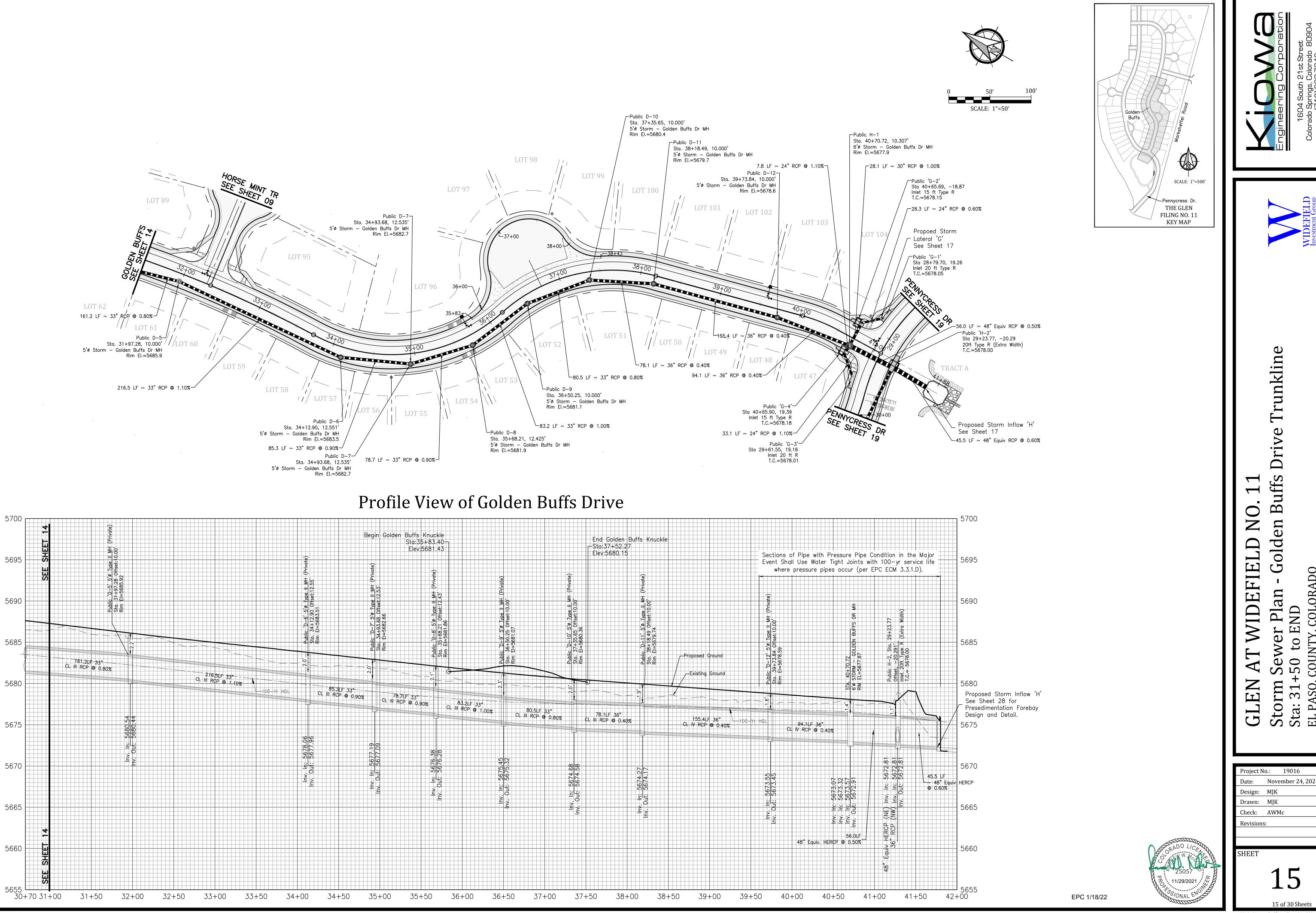


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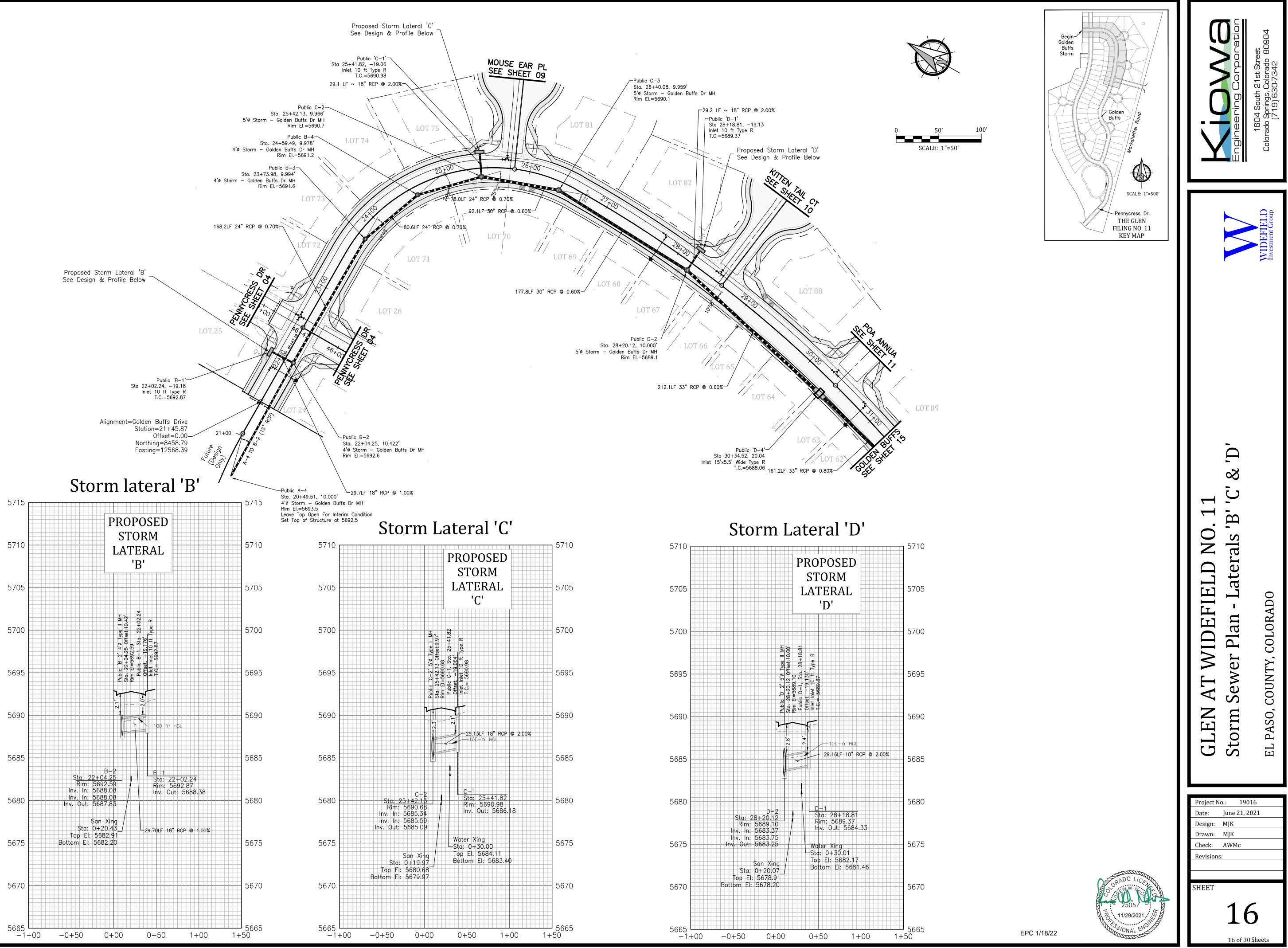


50	Inv. In: 5686.65	23+73.98 2.3' Public B-3, Sta. 23+73.98 Offset 9.994' Inlet 48 inch Cylindrical Structure	.60%	ic C-2 9.966' Dr MH 5690.7 -4 78' MH 1.2 0T 73
			Public Stars Sast Sast Sast Sast Sast Sast Sast Sas	LOT 7
24+50	Inv. In: 5685.99	24 ⁴ . 00ffset, 99978, 2.4 ⁴ . 2.4 ⁴ . 00ffset, 99978, 2.445 00ffset, 99978, 2.45 00ffset, 9978, 2.45 00ffset, 997	B-2 2+04.25, 10.422' orm – Golden But I.=5692.6 = 18" RCP @ 1.00%	Sta 25+41. Inlet 10 C-1 TO 0
25+00			168.2LF 24" CL III RCP @ 0 fs Dr MH	LOT 71
25+50	Inv. In: 5685.34 Inv. In: 5685.34 Inv. Out: 5685.59 Inv. Out: 5685.09	2.26 Dublic C-2, Sto. 25 Public C-2, Sto. 25 Dublic C-2, Sto. 25 Dublic C-2, Sto. 25 Dublic C-3, Sto. 25 Dub		
26+00		92:14F 30"	177.8 CL III RCP @	OUSE EAR P EE SHEET OS 22F $22F26+0022F$ $26+0022F$ $26+0026+0022F$ $26+0026+0020$
26+50	Inv. In: 5684.54 Inv. Out: 5684.54	Diffect. 9.959 Diffect. 9.959	5'ø Sto	LOT 8
27+00 27		Existing Ground	TO D-2 (18" RCP)-L(Public D Sta. 28+20.12, 10.00 orm - Golden Buffs Dr I Rim El.=5689	
7+50 20		sed Ground	-2 OO' MH 19.1 CL III RCF roposed 5' Si Slope at 2% Street	5'ø Sto
8+00 28	Inv. Inv.	2.4 ¹ Public D–2, Sta. 28+20.12 Public D–2, St	: (Typ) Sta 3	6+40.08, 9.959' orm – Golden Buffs .=5690.1
3+50			Public 'D- 30+34.52, 20.0 5.5' Wide Type T.C.=5688.0	Pi Lo Si
29+00 29+			LOT 8 (23B)	roposed Storm ateral 'D' eeEE Sheet 16
+50		PVC 299:40	230 230 74 3 LOT 62	
30+00	h	100'\ k=159 k=120 20+29/4. PW	SCOLET SHE	
30+50	Inv. 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EL:=5000:.12-0.00 =5688.40 Public D -4, Sta. 30+34.52 0ffset, 20.043' Inlet Inlet 15'x5.5' Wide Type R 1.C:= 5688.06 PVT 30+79.74		
31+00			\.\`	(90) (220) (220) (221) (
	100-Yr HG Inv. In: 56 Inv. Out: 56	-1.19%	A=88'31'21" _=30.90' R=20.00'	VE DATA
32-		Offset 10.000' 01131.000 0115et 10.000' 01131 0115et 10.000' 01131 0015et 10.000' 01131 0115et 10.000' 000' 01131 0115et 10.000' 000' 01131 0115et 10.000' 0115et 10.000' 0115et 10.000' 0115 0115et 10.000' 0115et 10.000' 01000' 01000' 000' 000'		
5665 +00 EPC 1/18/22	5675	5710 5705 5700 5695 5690 5685	5710	Begin- Golden Buffs Storm
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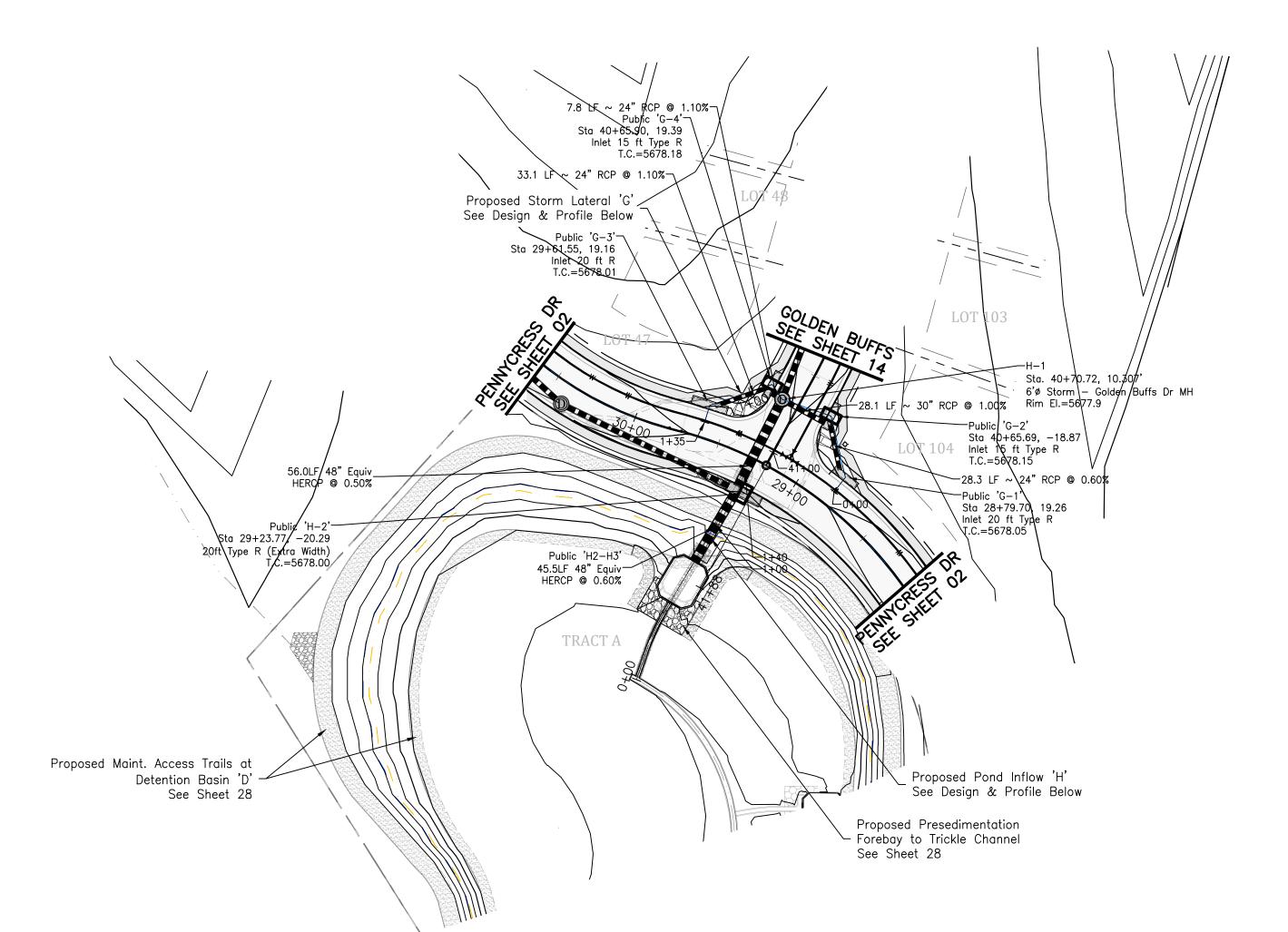




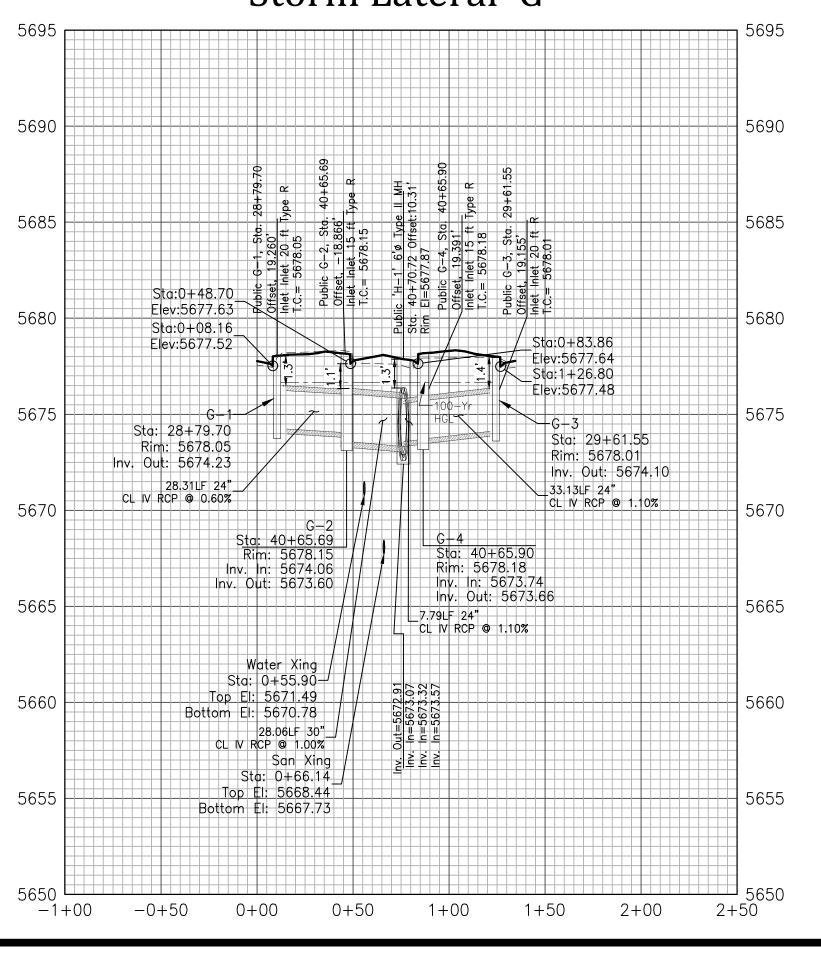
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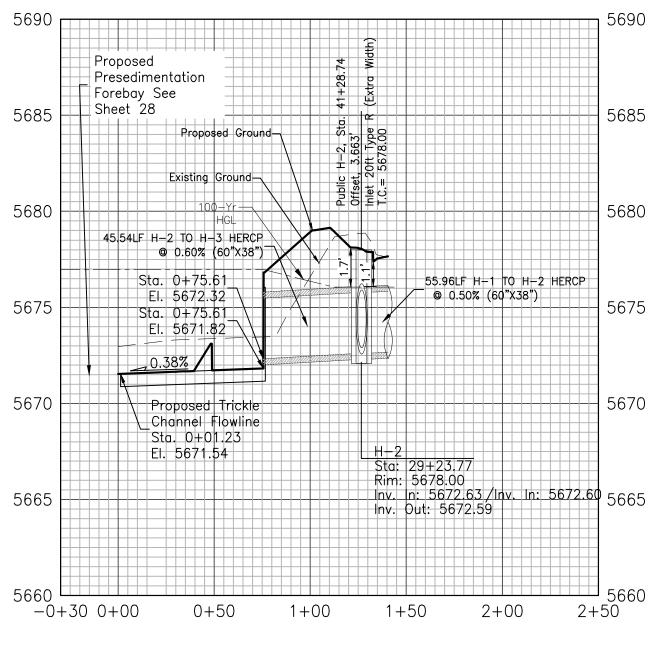


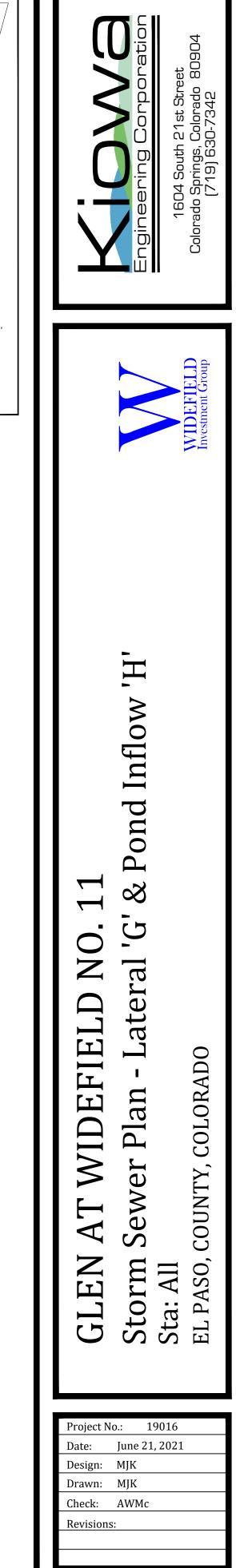
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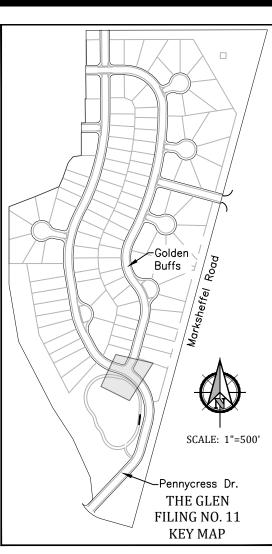


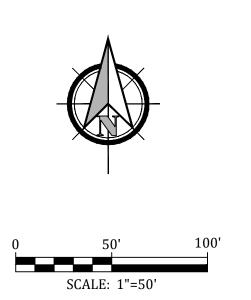




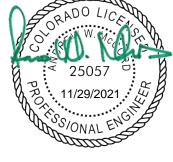








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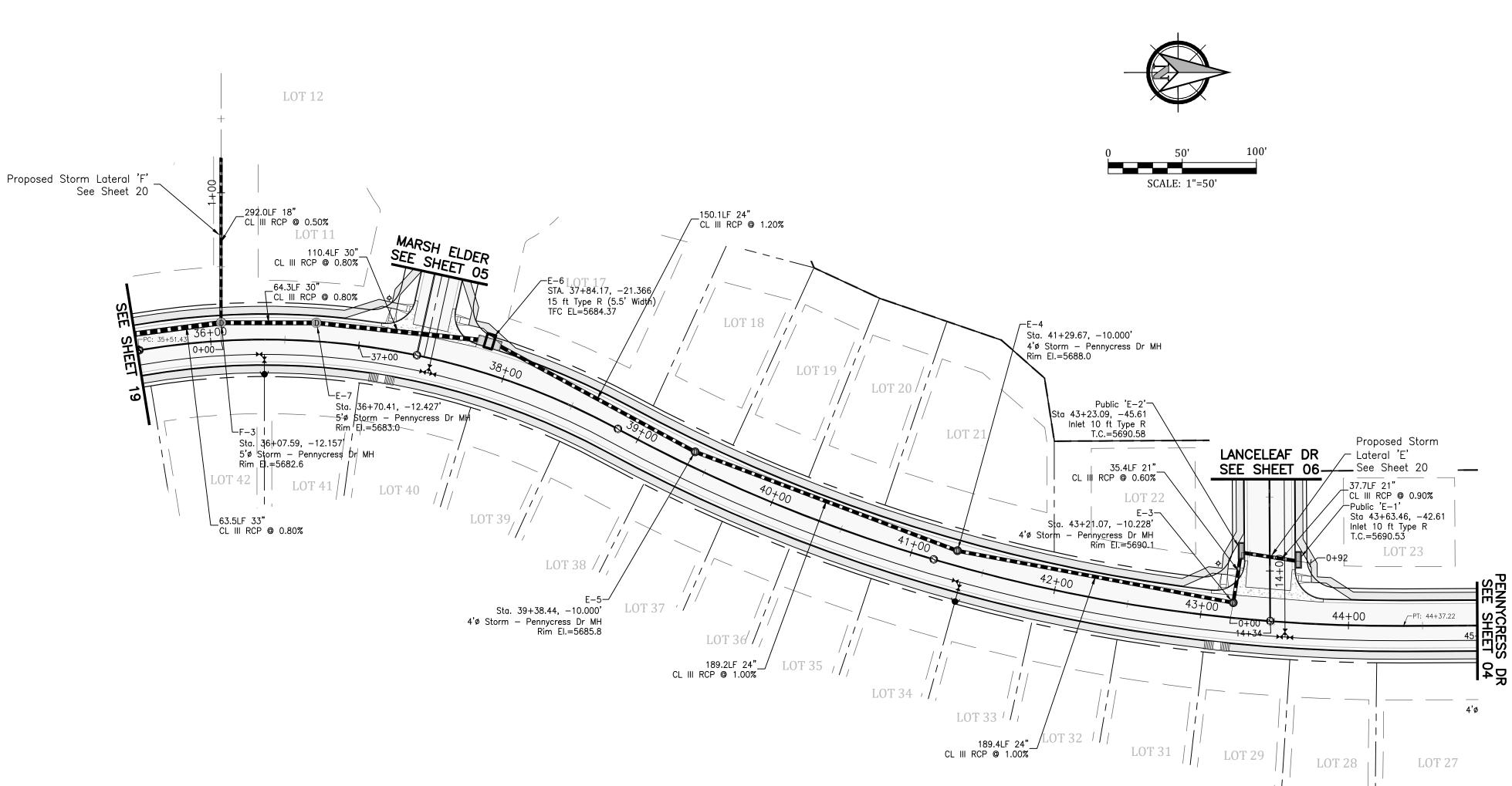


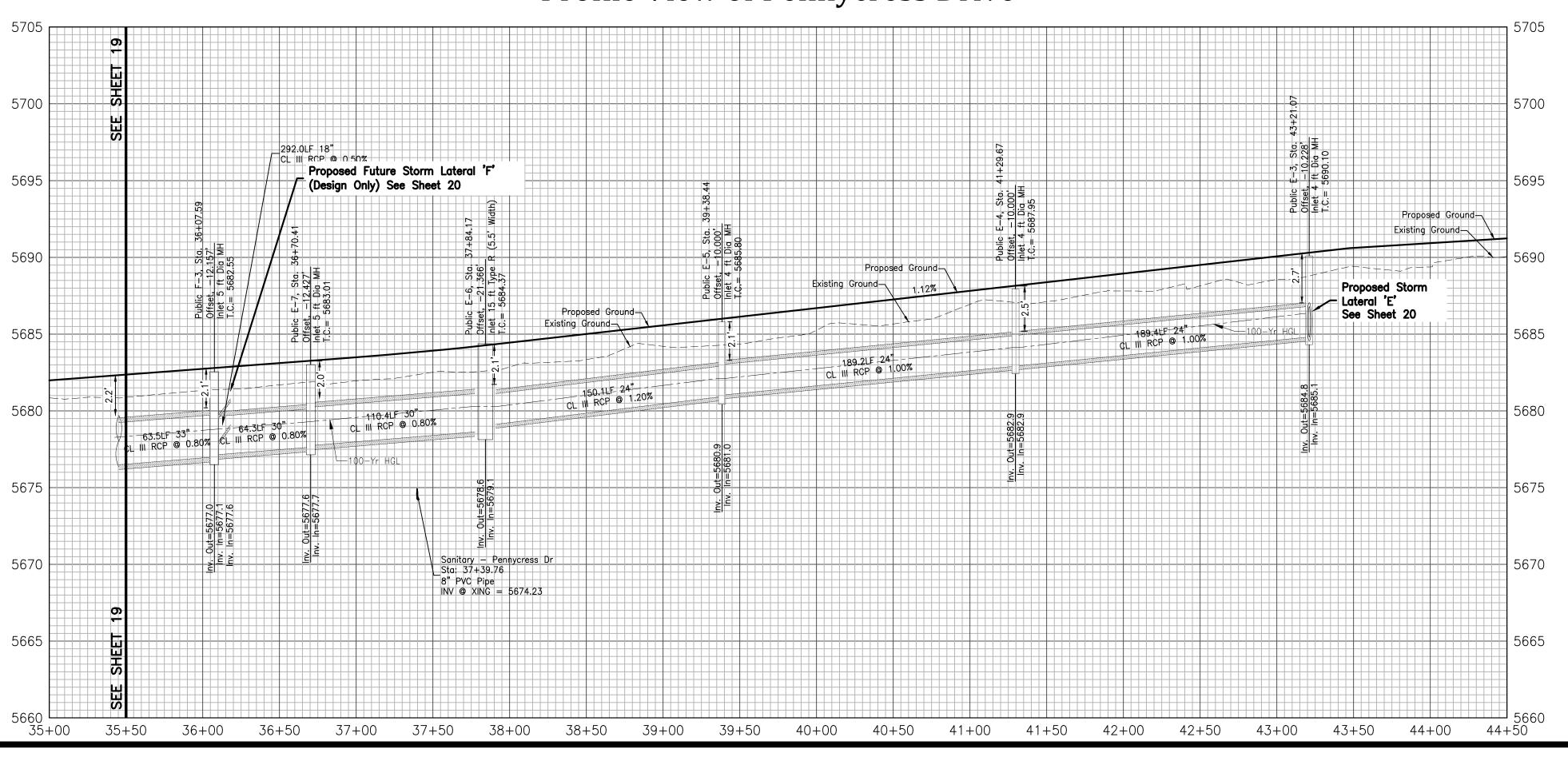
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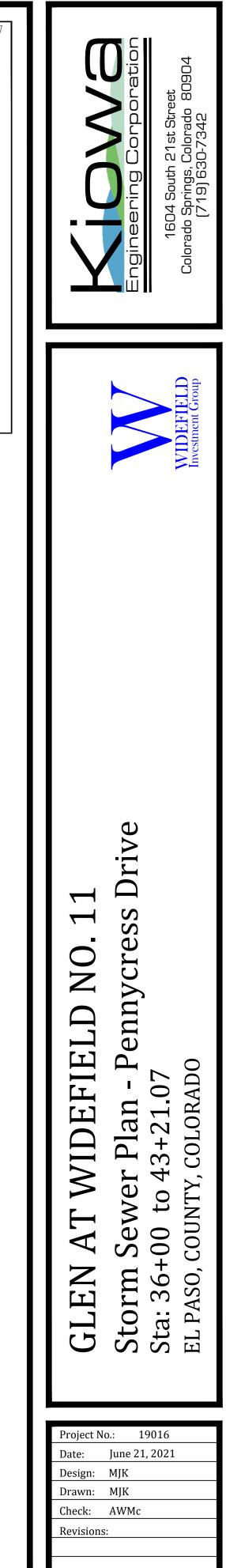
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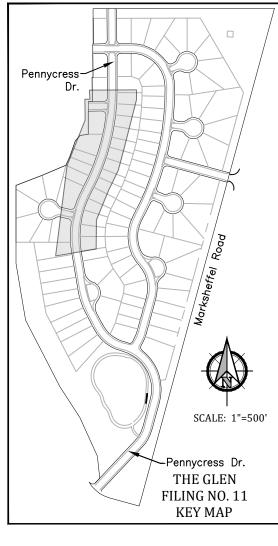
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Profile View of Pennycress Drive





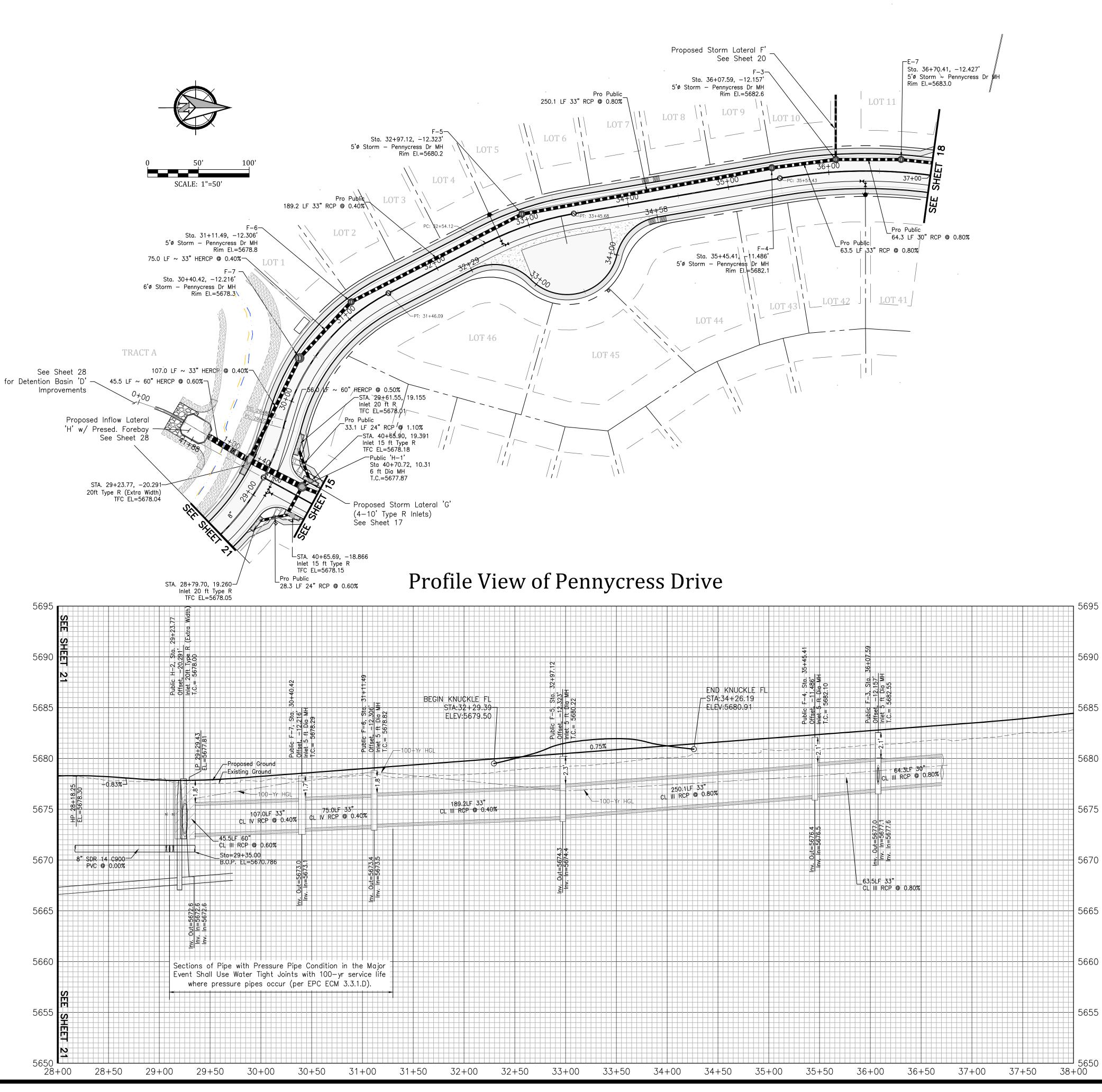


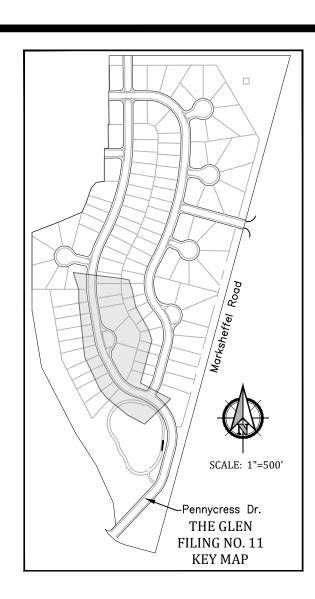
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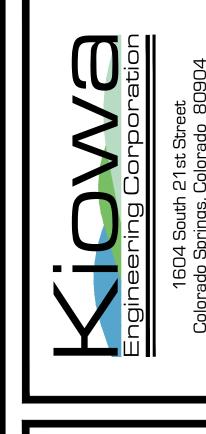
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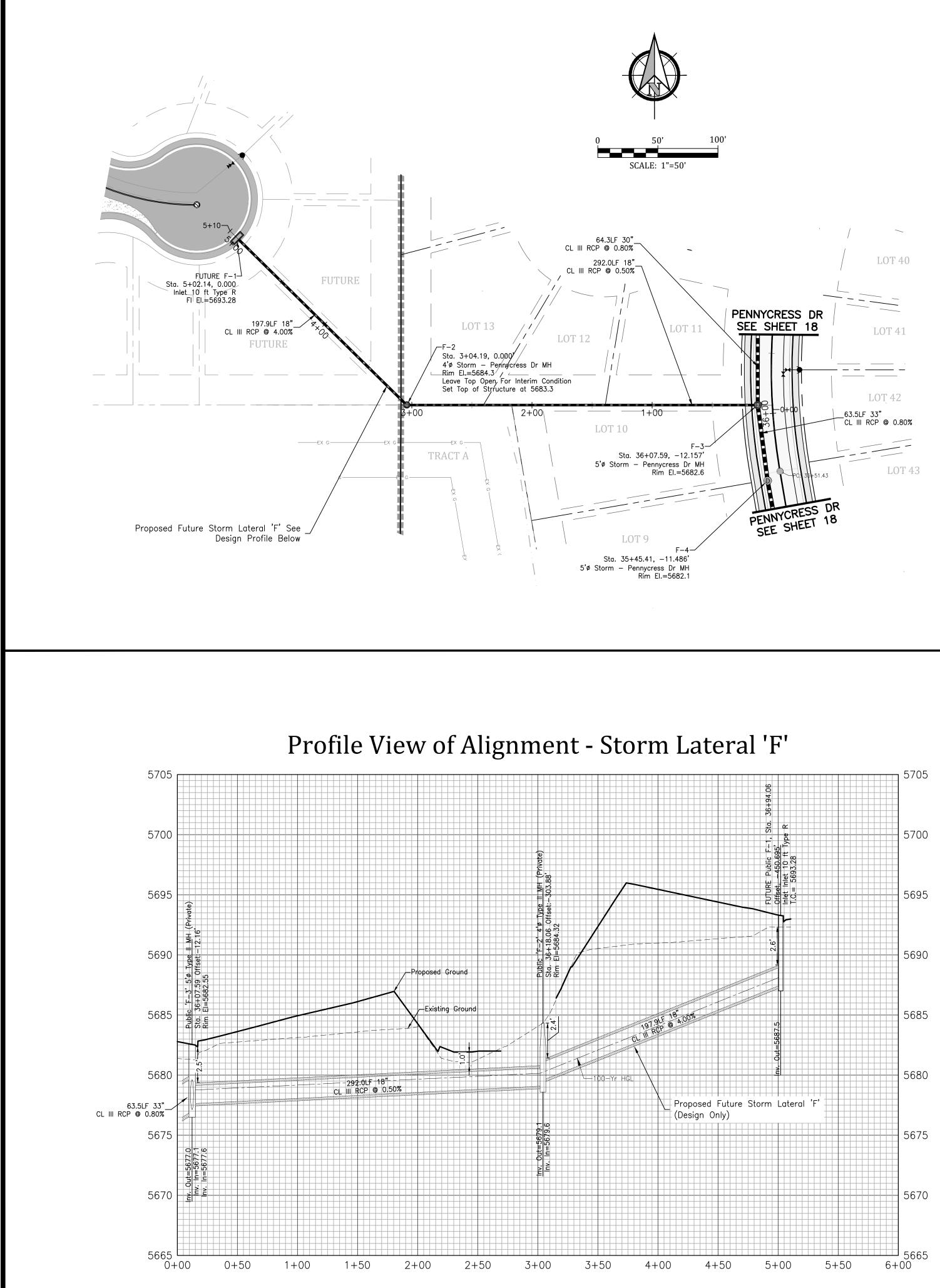
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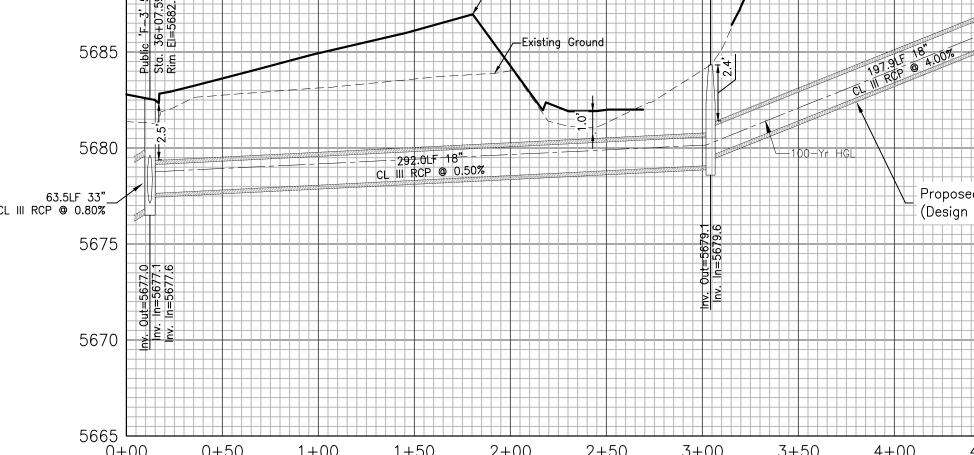
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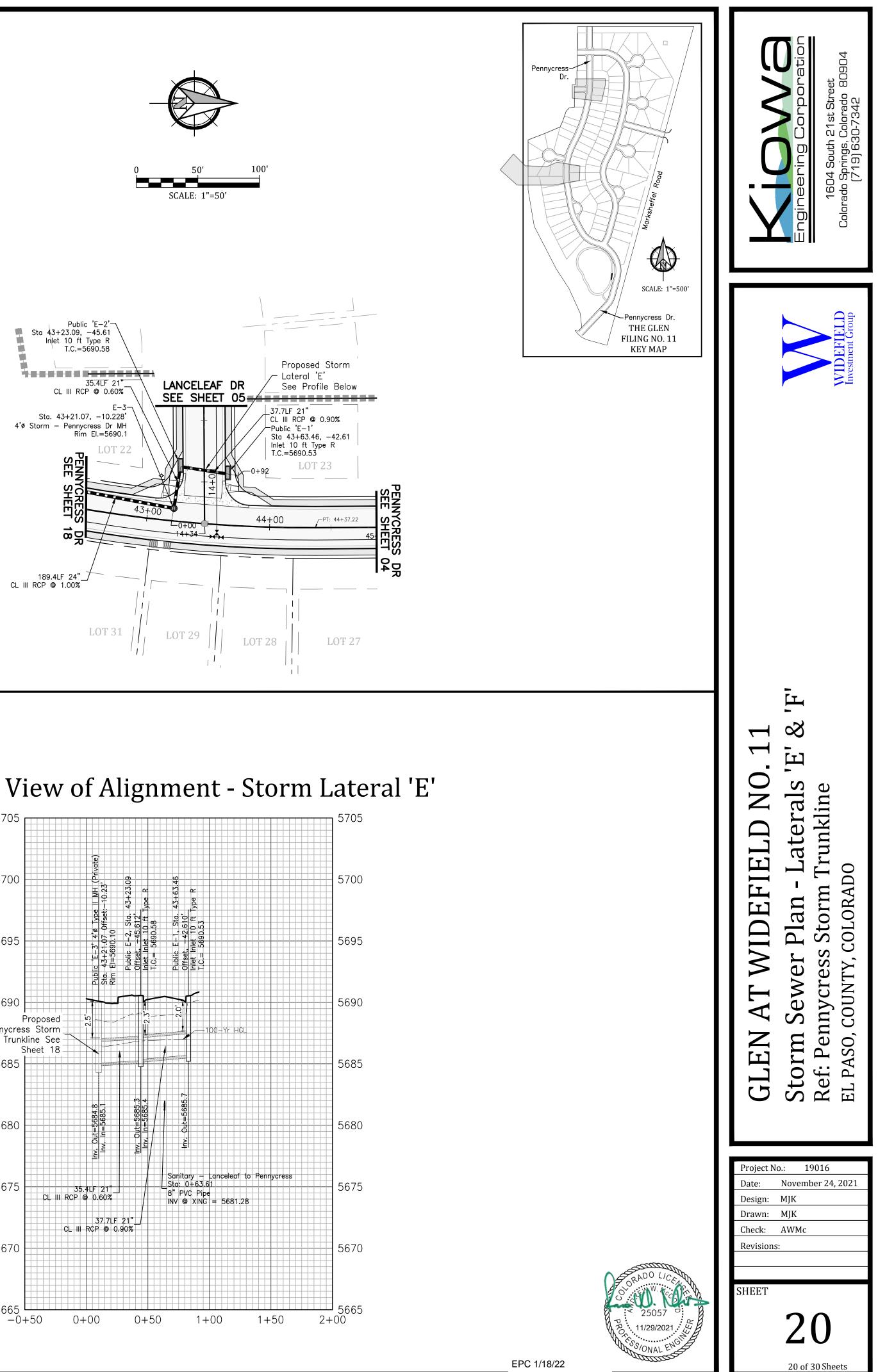
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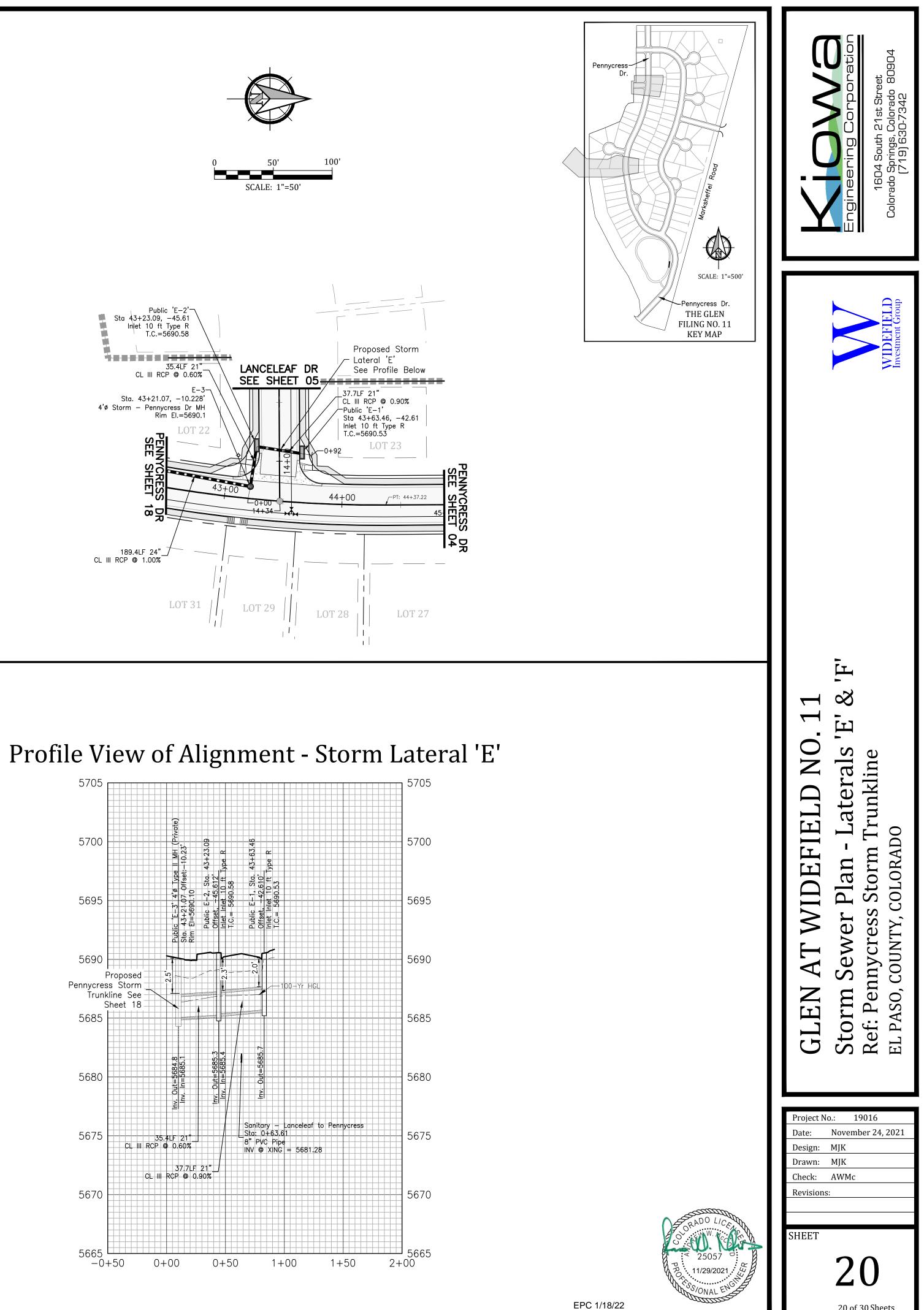
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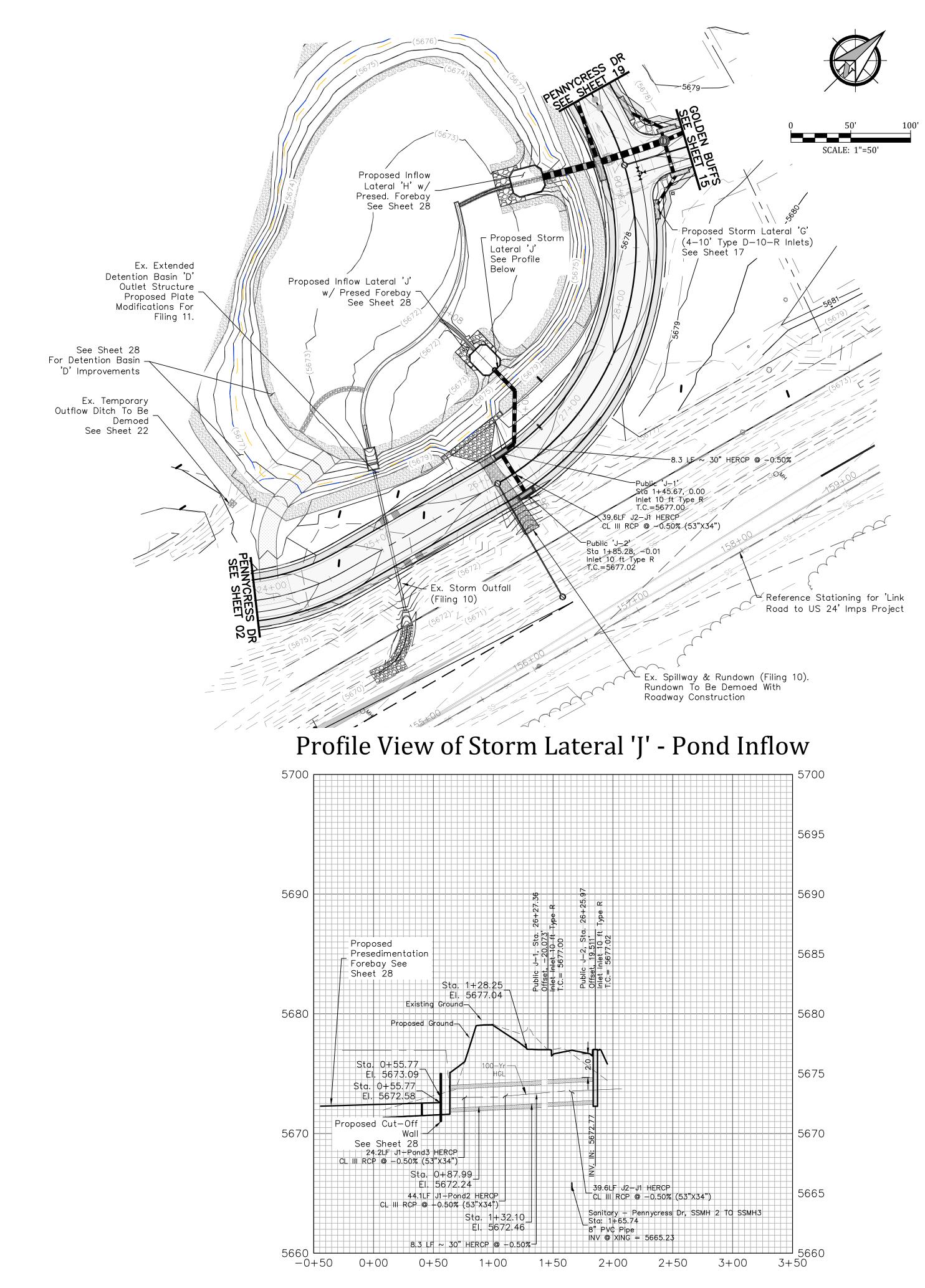


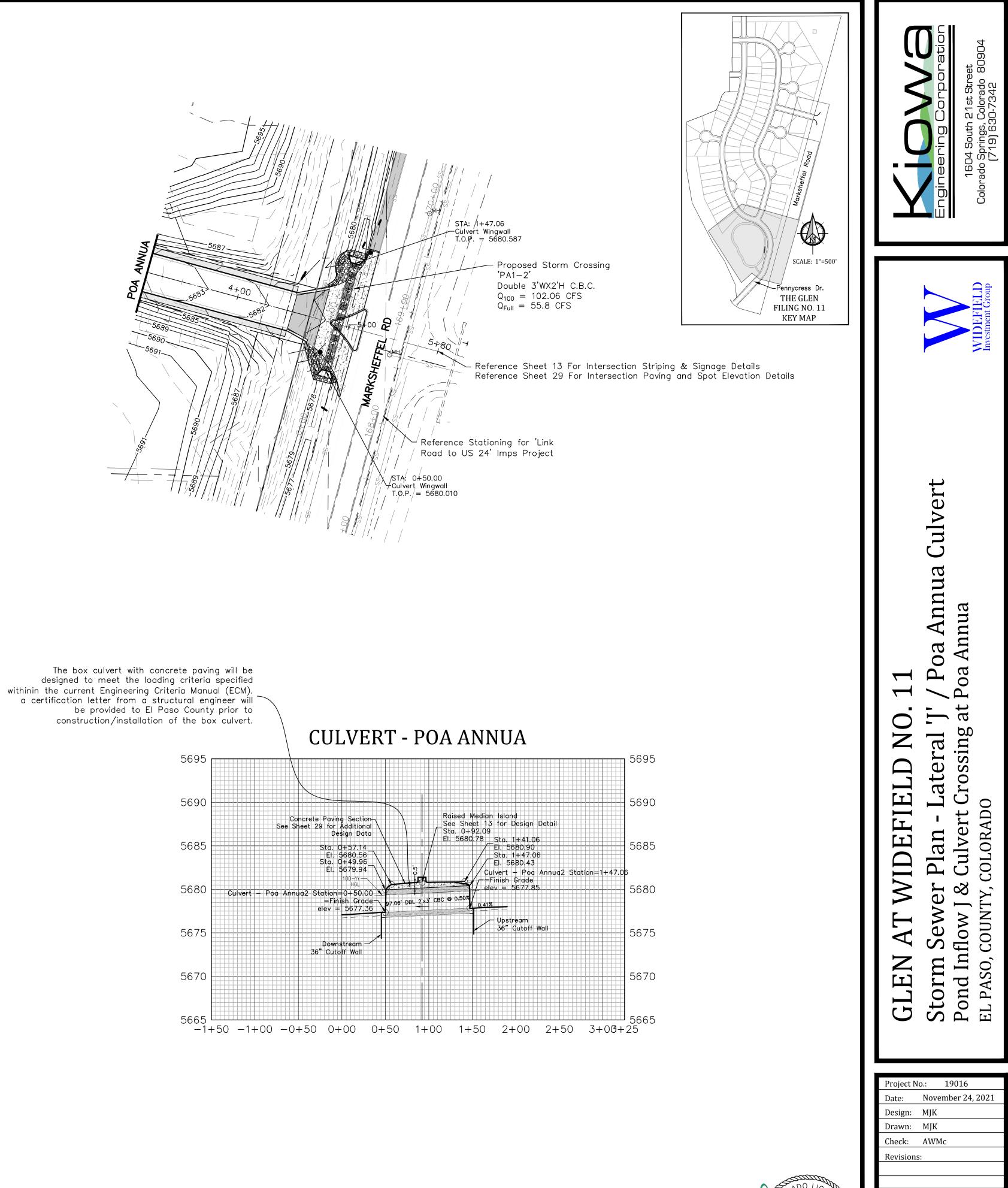






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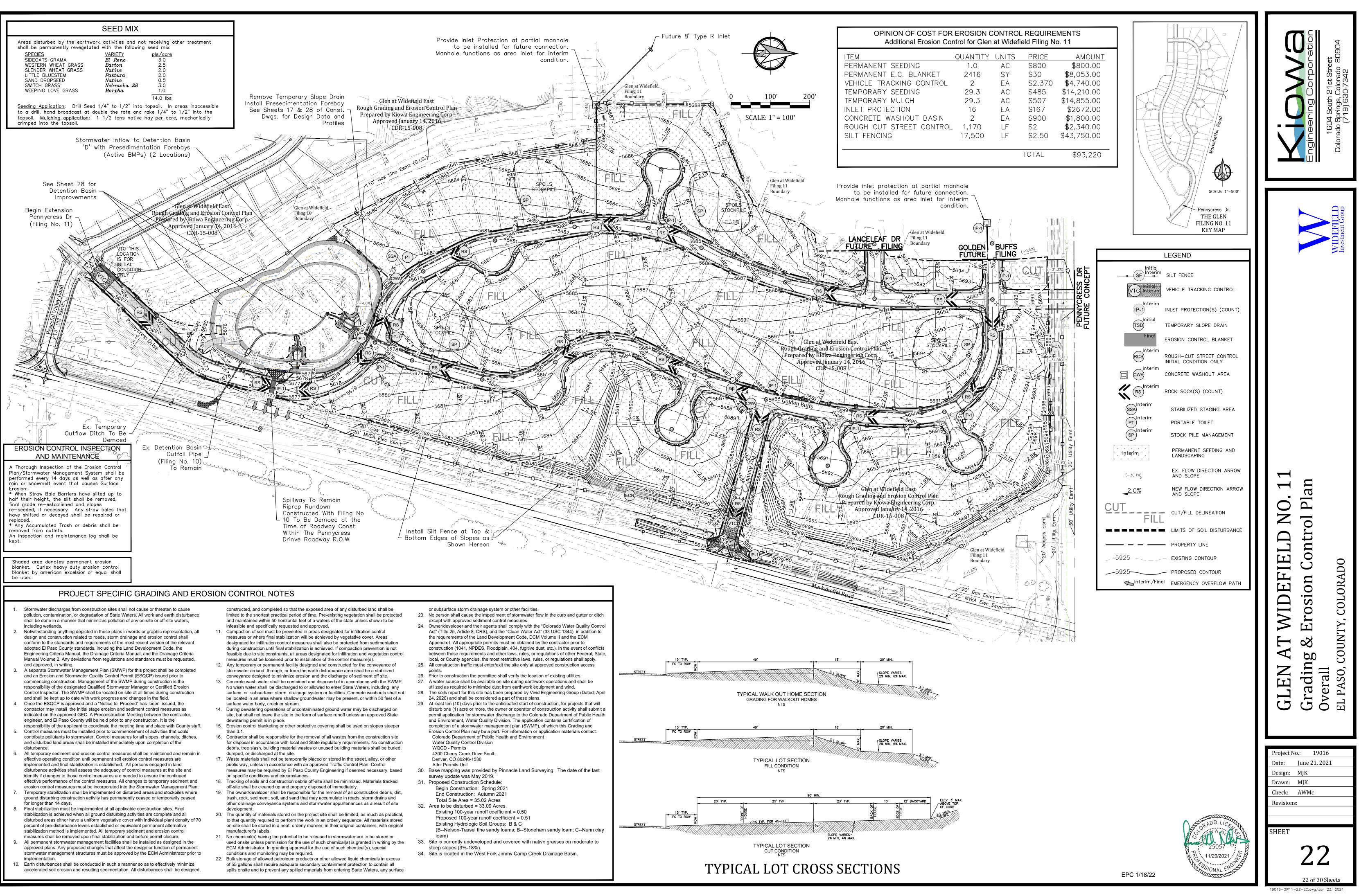
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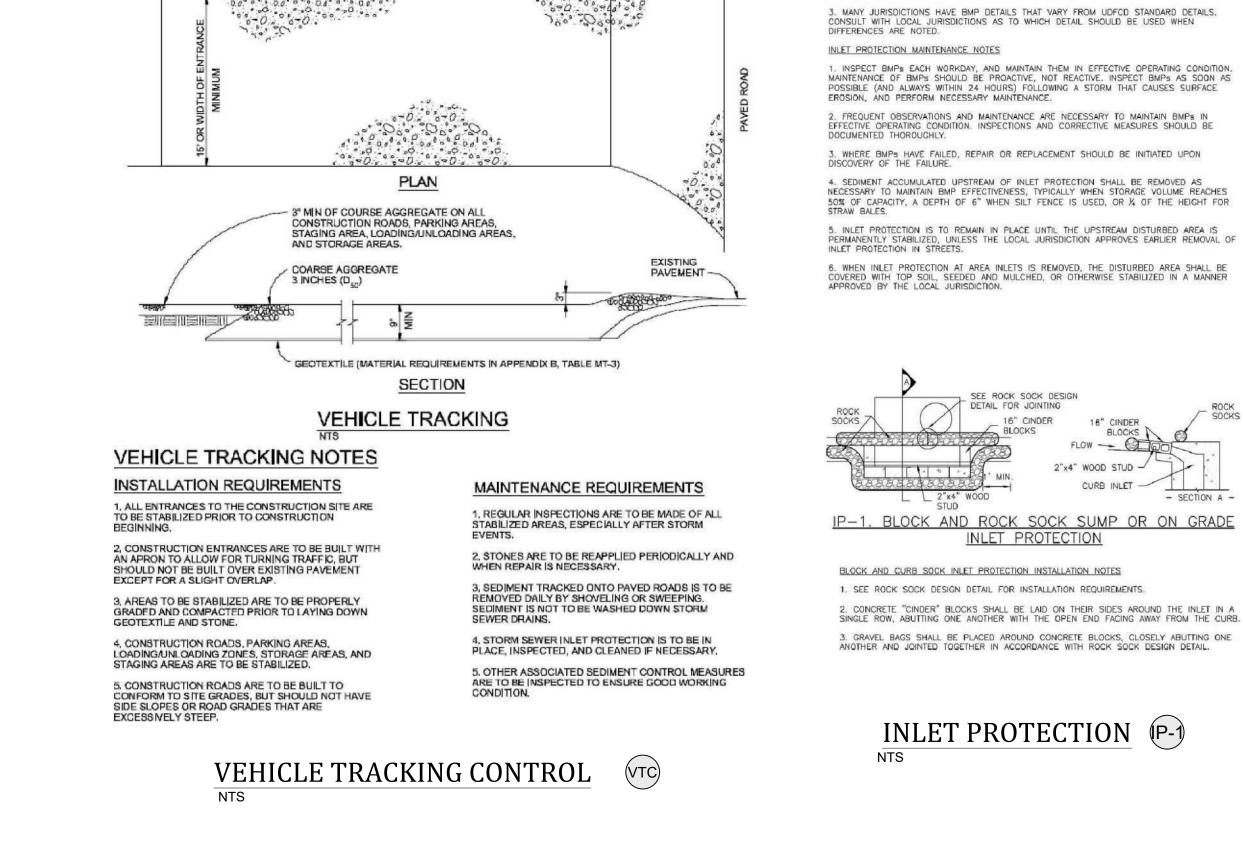
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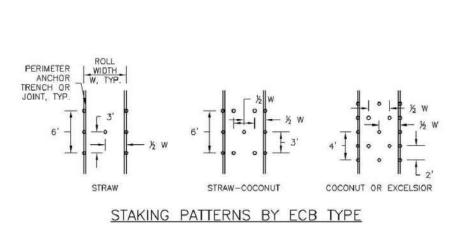
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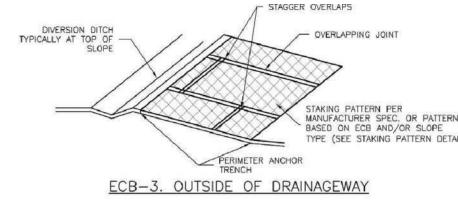


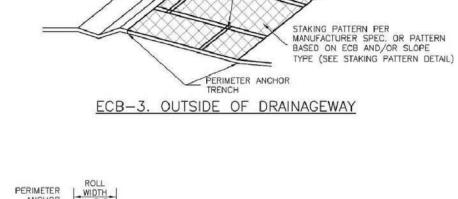


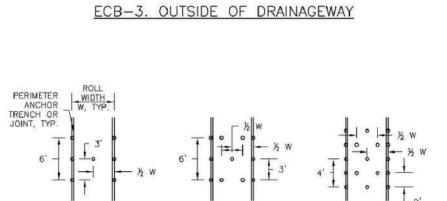


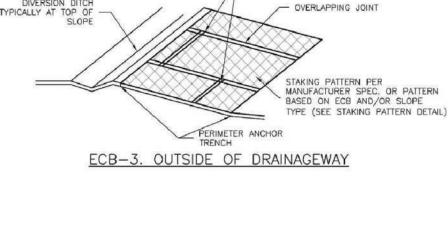
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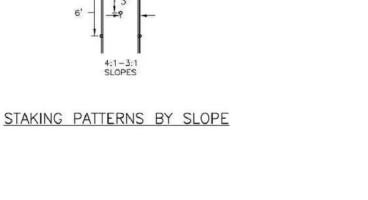


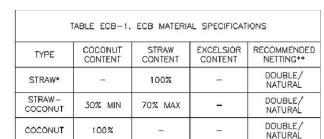












DOUBLE/ NATURAL

100%

EROSION CONTROL BLANKET INSTALLATION NOTES

EXCELSIOR

1. SEE PLAN VIEW FOR: -LOCATION OF ECB.

-TYPE OF ECB (STRAW, STRAW-COCONUT, COCONUT, OR EXCELSIOR). -AREA, A, IN SQUARE YARDS OF EACH TYPE OF ECB.

100% NATURAL AND BIODEGRADABLE MATERIALS ARE PREFERRED FOR RECPS, ALTHOUGH SOME JURISDICTIONS MAY ALLOW OTHER MATERIALS IN SOME APPLICATIONS

3. IN AREAS WHERE ECBS ARE SHOWN ON THE PLANS, THE PERMITTEE SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING, SURFACE PREPARATION, AND SEEDING AND MULCHING. SUBGRADE SHALL BE SMOOTH AND MOIST PRIOR TO ECB INSTALLATION AND THE ECB SHALL BE IN FULL CONTACT WITH SUBGRADE, NO GAPS OR VOIDS SHALL EXIST UNDER THE

4. PERIMETER ANCHOR TRENCH SHALL BE USED ALONG THE OUTSIDE PERIMETER OF ALL BLANKET AREAS.

5. JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER

(LONGITUDINALLY AND TRANSVERSELY) FOR ALL ECBs EXCEPT STRAW WHICH MAY USE AN OVERLAPPING JOINT.

6. INTERMEDIATE ANCHOR TRENCH SHALL BE USED AT SPACING OF ONE-HALF ROLL LENGTH FOR COCONUT AND EXCELSIOR ECBs. 7. OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER FOR ECBs ON SLOPES.

8. MATERIAL SPECIFICATIONS OF ECBs SHALL CONFORM TO TABLE ECB-1. 9. ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING ECBS SHALL BE RESEEDED AND MULCHED.

EROSION CONTROL BLANKET 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. ECBs SHALL BE LEFT IN PLACE TO EVENTUALLY BIODEGRADE, UNLESS REQUESTED TO BE REMOVED BY THE LOCAL JURISDICTION.

5. ANY ECB PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE REPAIRED OR REINSTALLED. ANY SUBGRADE AREAS BELOW THE GEOTEXTILE THAT HAVE ERODED TO CREATED A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED, RESEEDED AND MULCHED AND THE ECB REINSTALLED.

1. SEE PLAN VIEW FOR:

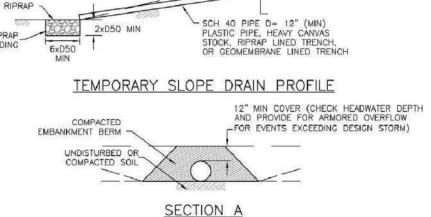


. INLET PROTECTION SHALL BE INSTALLED PROMPTLY AFTER INLET CONSTRUCTION OR PAVING IS COMPLETE (TYPICALLY WITHIN 48 HOURS). IF A RAINFALL/RUNOFF EVENT IS FORECAST, INSTALL INLET PROTECTION PRIOR TO ONSET OF EVENT.

TION OF INLET PROTECTION -TYPE OF INLET PROTECTION (IP.1, IP.2, IP.3, IP.4, IP.5, IP.6)

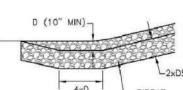
GENERAL INLET PROTECTION INSTALLATION NOTES







RIPRAP TERMINATION OF RIPRAP



5. INSPECT RIPRAP PAD AT OUTLET FOR SIGNS OF EROSION. IF SIGNS OF EROSION EXIST, ADDITIONAL ARMORING SHALL BE INSTALLED 6. TEMPORARY SLOPE DRAINS ARE TO REMAIN IN PLACE UNTIL NO LONGER NEEDED, BUT SHALL BE REMOVED PRIOR TO THE END OF CONSTRUCTION. WHEN SLOPE DRAINS ARE REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOP SOIL, SEEDED, MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

4. INSPECT INLET AND OUTLET POINTS AFTER STORMS FOR CLOGGING OR EVIDENCE OF OVERTOPPING. BREACHES IN PIPE OR OTHER CONVEYANCE SHALL BE REPAIRED AS SOON AS PRACTICABLE IF OBSERVED.

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.

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.

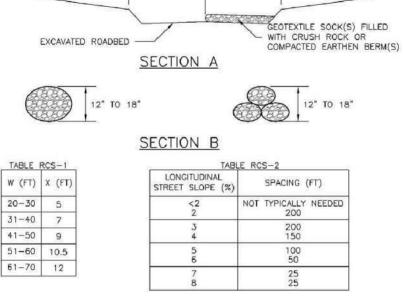
6. RIPRAP PAD SHALL BE PLACED AT SLOPE DRAIN OUTFALL. 7. ANCHOR PIPE BY COVERING WITH SOIL OR AN ALTERNATE SUITABLE ANCHOR MATERIAL. SLOPE DRAIN MAINTENANCE NOTES

4. SLOPE DRAINS INDICATED SHALL BE INSTALLED PRIOR TO UPGRADIENT LAND-DISTURBING ACTIVITIES 5. CHECK HEADWATER DEPTHS FOR TEMPORARY AND PERMANENT SLOPE DRAINS. DETAILS SHOW MINIMUM COVER; INCREASE AS NECESSARY FOR DESIGN HEADWATER DEPTH.

-LOCATION AND LENGTH OF SLOPE DRAIN -PIPE DIAMETER, D, AND RIPRAP SIZE, D50 2. SLOPE DRAIN SHALL BE DESIGNED TO CONVEY PEAK RUNOFF FOR 2-YEAR 24-HOUR STORM AT A MINIMUM. FOR LONGER DURATION PROJECTS, LARGER MAY BE APPROPRIATE. SLOPE DRAIN DIMENSIONS SHALL BE CONSIDERED MINIMUM DIMENSIONS; CONTRACTOR MAY ELECT TO INSTALL LARGER FACILITIES.

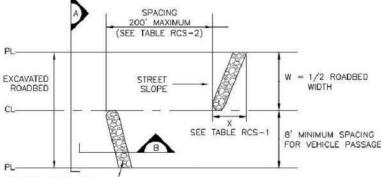
SLOPE DRAIN INSTALLATION NOTES 1. SEE PLAN VIEW FOR:





ROUGH CUT STREET CONTROL PLAN

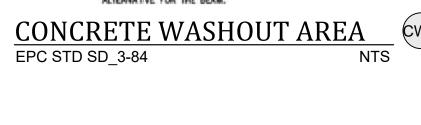
GEOTEXTILE SOCK(S) FILLED WITH CRUSHED ROCK OR COMPACTED -EARTHEN BERM(S)



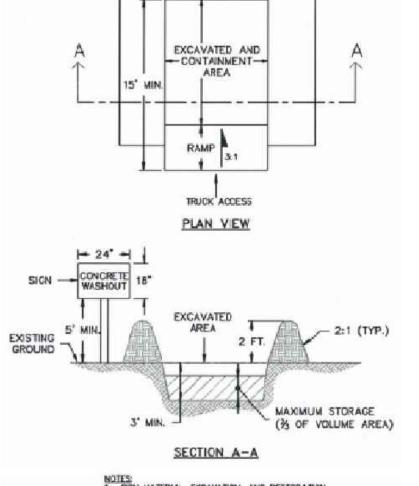
1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE. 2. FREQUENT OBSERVATIONS 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.

2. ROUGH CUT STREET CONTROL SHALL BE INSTALLED AFTER A ROAD HAS BEEN CUT IN, AND WILL NOT BE PAVED FOR MORE THAN 14 DAYS OR FOR TEMPORARY CONSTRUCTION ROADS THAT HAVE NOT RECEIVED ROAD BASE. ROUGH CUT STREET CONTROL INSPECTION AND MAINTENANCE NOTES

ROUGH CUT STREET CONTROL INSTALLATION NOTES SEE PLAN VIEW FOR -LOCATION OF ROUGH CUT STREET CONTROL MEASURES.

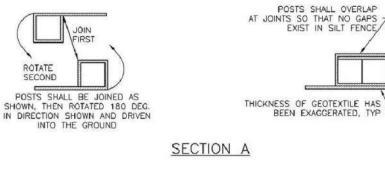


NOTES: 1. SON MATERIAL, ERCAVATION, AND RESTORATION ARE INCLUDED IN THE COST OF THE CONORETE WASHOUT STRUCTURE. 2. EROSION BALES MAY BE USED AS AN ALTERNATIVE FOR THE BERM. (CWA)



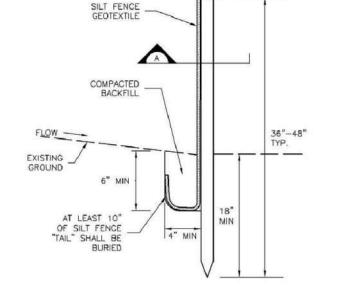
LIMIT OF BERM

9' MIN. ----



SILT FENCE

SILT FENCE DETAIL



5. REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE. 6. SILT 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.

1 ½"×1 ½" (RECOMMENDED) WOODEN

SPACING

FENCE POST WITH 10" MAX

4. SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 6".

DOCUMENTED THOROUGHLY. 3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

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

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" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20'). 7. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

4. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG 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 NALS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE.

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.

PONDING AND DEPOSITION. 2. A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.

SILT FENCE INSTALLATION NOTES 1. SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR



STANDARD EPC GRADING AND EROSION CONTROL NOTES

- Construction may not commence until a Construction Permit is obtained from Development Services and a Preconstruction Conference is held with Development Services Inspections. 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.
- 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 to regulations and standards must be requested, and approved in writing.
- 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. During construction the SWMP is the responsibility of the designated Stormwater Manager. The SWMP shall be located on site at all times and shall be kept up to date with work progress and changes in the field.
- Once the ESQCP has been issued, the contractor may install the initial stage erosion and sediment control BMP's as indicated on the 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 DSD inspections staff.
- . Soil erosion control measures for all slopes, channels, ditches, or any disturbed land area shall be completed within 21 calendar days after final grading, or earth disturbance, has been completed. Disturbed areas and stockpiles, which are not at final grade but will remain dormant for longer than 30 days, shall also be mulched within 21 days after interim grading. And area that is going to remain an interim for more than 60 days shall also be seeded. All temporary soil erosion control measures and BMP's shall be maintained until permanent soil erosion control measures are implemented and established.
- Temporary soil erosion control facilities shall be removed and earth disturbance areas graded and stabilized with permanent soil erosion control measures pursuant to standards and specification prescribed in the DCM Volume II and the Engineering Criteria Manual (ECM) appendix I.
- Il persons engaged wit hearth disturbance shall implement and maintain acceptable soil erosion sediment control measures including BMP's in conformance with the erosion control technical standards of the Drainage Criteria Manual (DCM) Volume II and in accordance with the Stormwater Management Plan (SWMP)
- All temporary erosion control facilities including BMPs and all permanent facilities intended to control erosion of any earth disturbance operations shall be installed as defined in the approved plans, the SWMP and the DCM Volume II and maintained throughout the duration of the earth disturbance operation. 0. Any earth disturbance shall be conducted in such a manner so as to effectively reduce 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. 1. Any temporary or permanent facility designed and constructed for the conveyance of stormwater around, through, or from the earth disturbance area shall be designed to limit the discharge to a non-erosive velocity
- 2. Concrete wash water shall be contained and disposed of in accordance with the SWMP. No wash water shall be discharged to or allowed to runoff to State Waters, including any surface or subsurface storm drainage system or facilities.
- 3. Erosion control blanketing is to be used on slopes steeper than 3:1. 14.Building, construction, excavation, or other 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. BMPs may be required by El Paso County Engineering if deemed necessary, based on specific conditions and circumstances
- 15. Vehicle tracking of soils and construction debris off-site shall be minimized. Materials tracked offsite shall be cleaned up and properly disposed of immediately.
- 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. 7. The owner, site developer, contractor, and/or their authorized agents shall be responsible for the removal
- of all constructions debris, dirt, trash, rock, sediment, and sand that may accumulate in the storm sewer or other drainage conveyance and stormwater appurtenances as a result of site development. 18. 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.
- 19.No chemicals are to be used by the contractor, which have the potential to be released in stormwater unless permission for the use of a specific chemical is granted in writing by the ECM Administrator. In granting the use of such chemicals, special conditions and monitoring may be required.
- 20.Bulk storage structures for petroleum products and other chemicals shall have adequate protection so as to contain all spills and prevent any spilled material from entering State Waters, including any surface or subsurface storm drainage system or facilities.
- 21.No person shall cause the impediment of stormwater flow in the flow line of the curb and gutter or in the ditchline. 22.Individuals shall comply with the "Colorado Water Quality Control Act" (Title 25, Article8, CRS), and the
- Clean Water Act" (33 USC 1344), in addition to the requirements included in the DCM Volume II and the ECM Appendix I. All appropriate permits must be obtained by the Contractor prior to the construction (NPDES, Floodplain, 404, fugitive dust, etc.). In the event of conflicts between these requirements and laws, rules, or regulations of other Federal, State, or County Agencies, the more restrictive laws, rules, or regulations shall apply.
- 23.All construction traffic must enter/exit the site at approved construction access points. 24. Prior to actual construction the permitee shall verify the location of existing utilities.
- 25.A water source shall be available on site during earthwork operations and utilized as required to minimize dust from earthwork equipment and wind.
- 26. The soils report for this site entitled Subsurface Soil Investigation The Glen at Widefield, Filing #6, Widefield, Colorado has been prepared by Soil Testing and Engineering, Inc. and shall be considered a part of these plans.
- 7.At least ten days prior to the anticipated start of construction, for projects that will disturb 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 Heath and Environment, Water Quality Division. The application contains certification of completion of a stormwater management plan (SWMP), 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, Colorado 80246-1530
- Attn: Permits Unit



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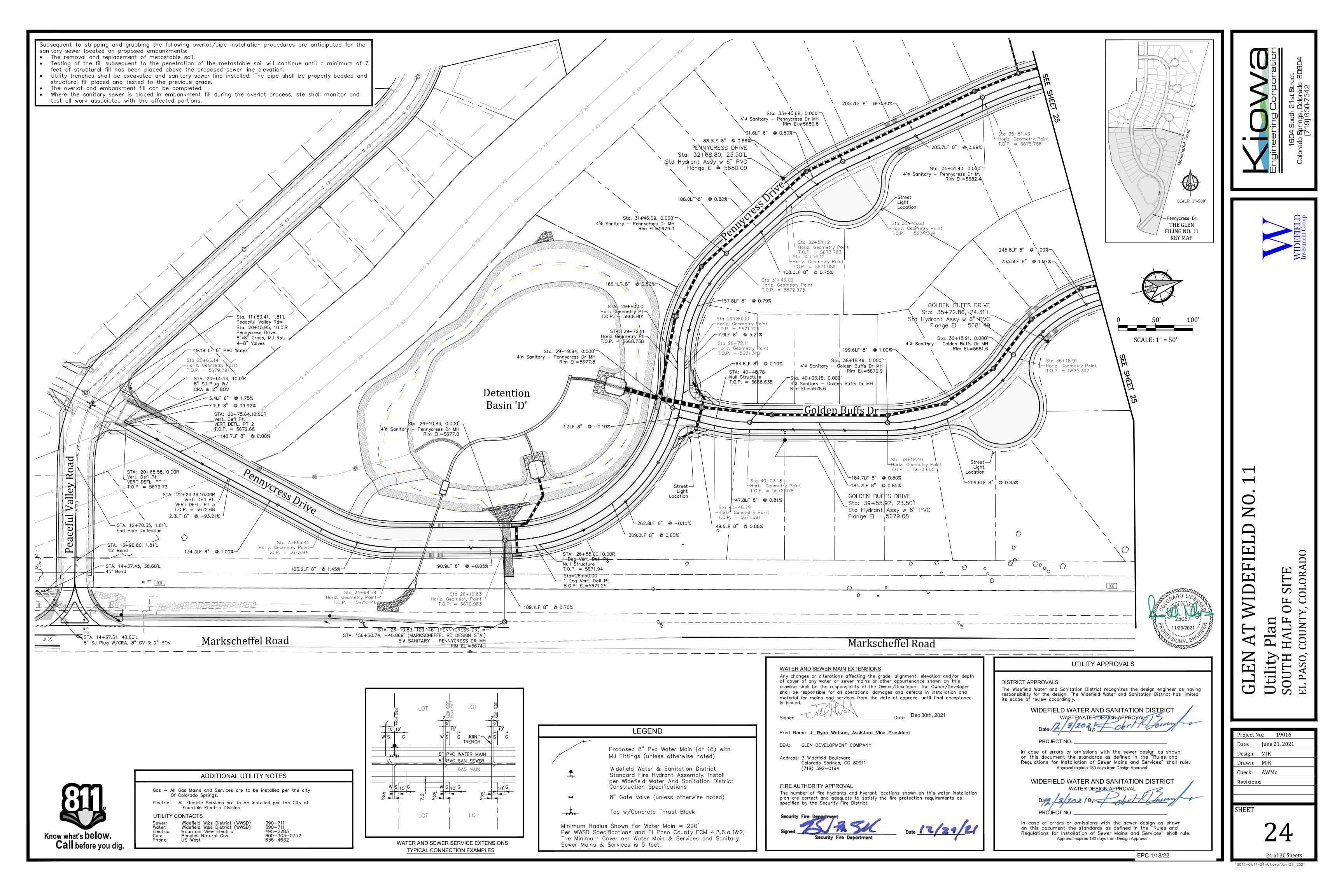
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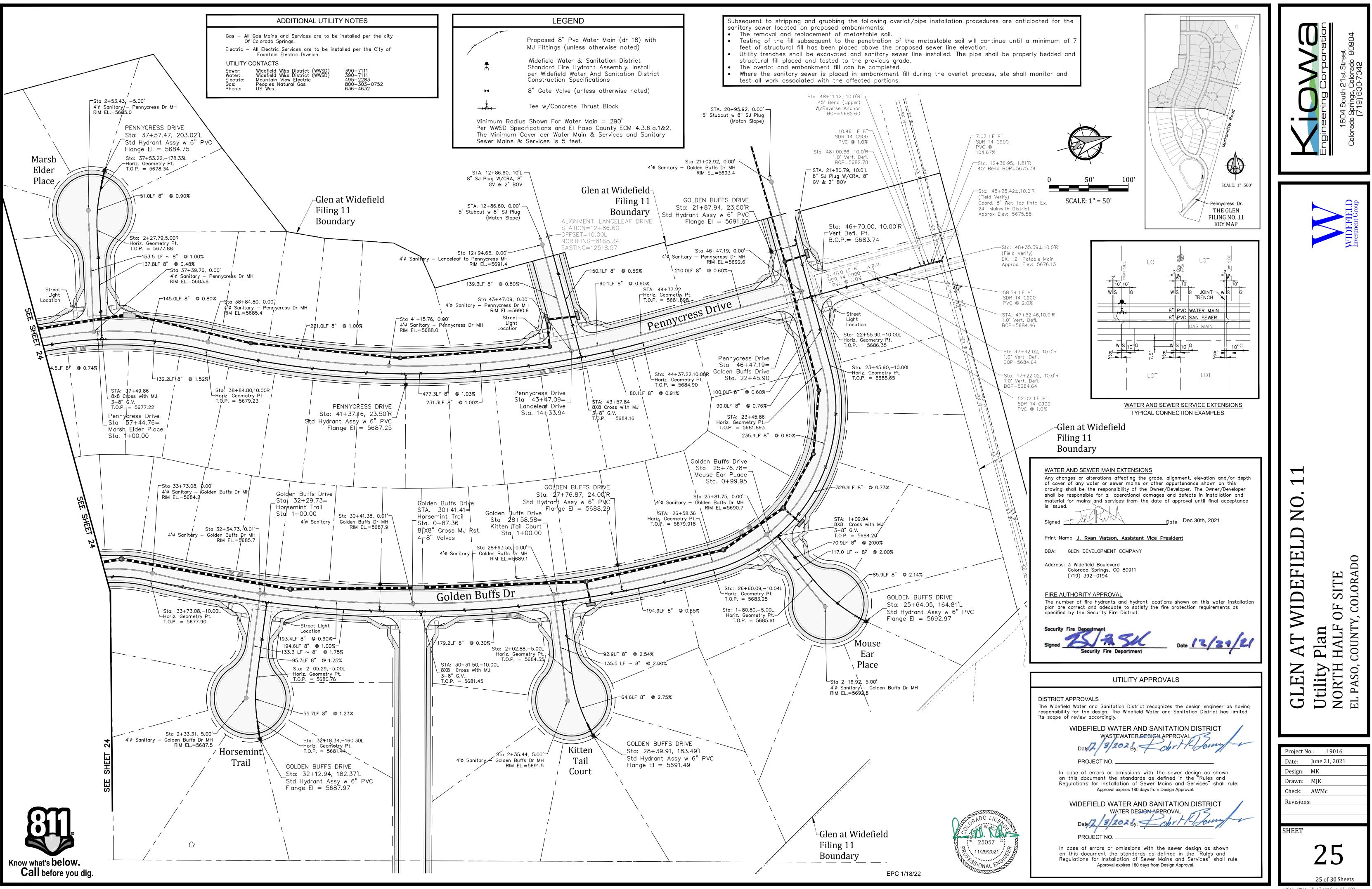
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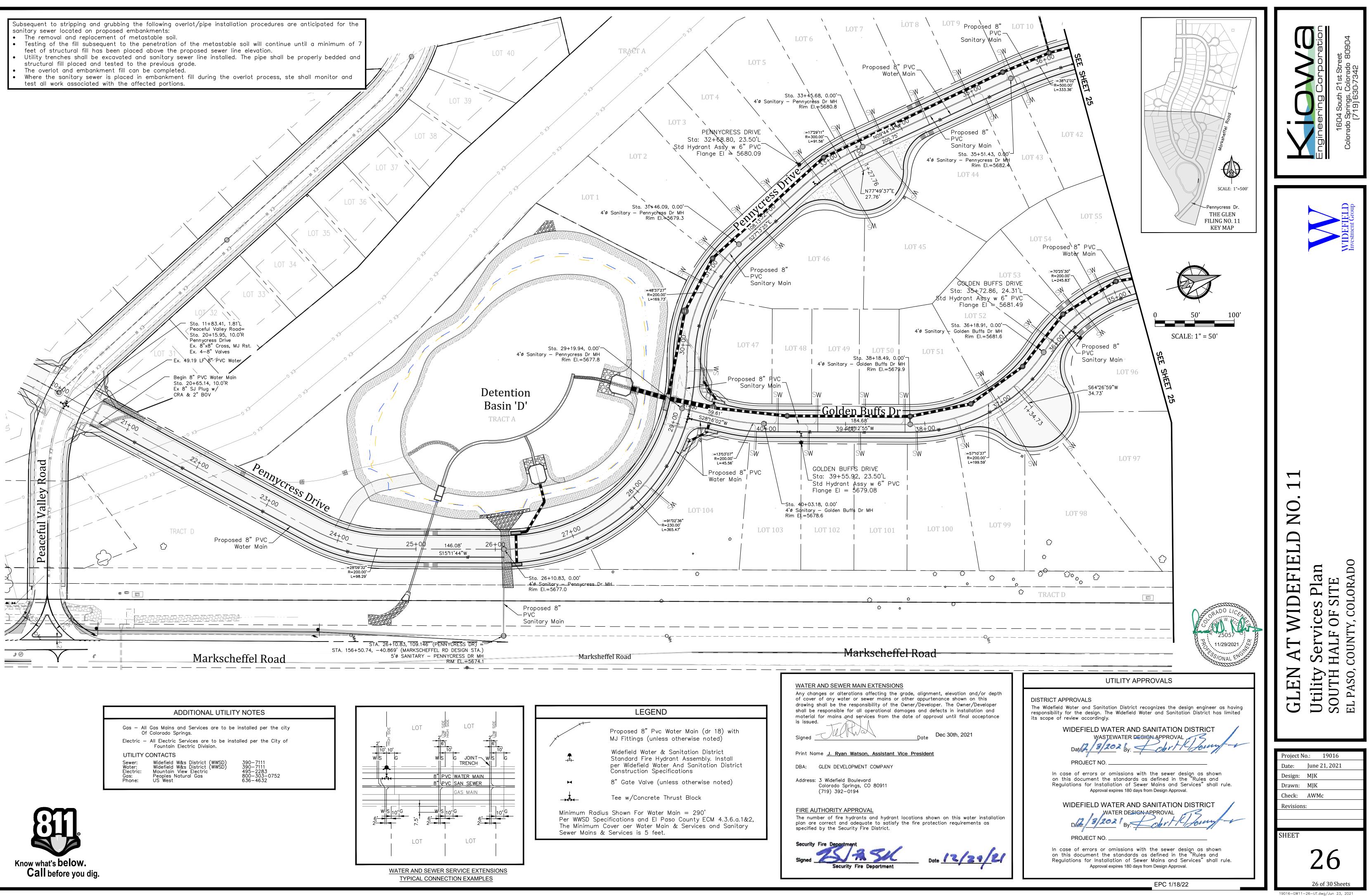
EPC 1/18/22

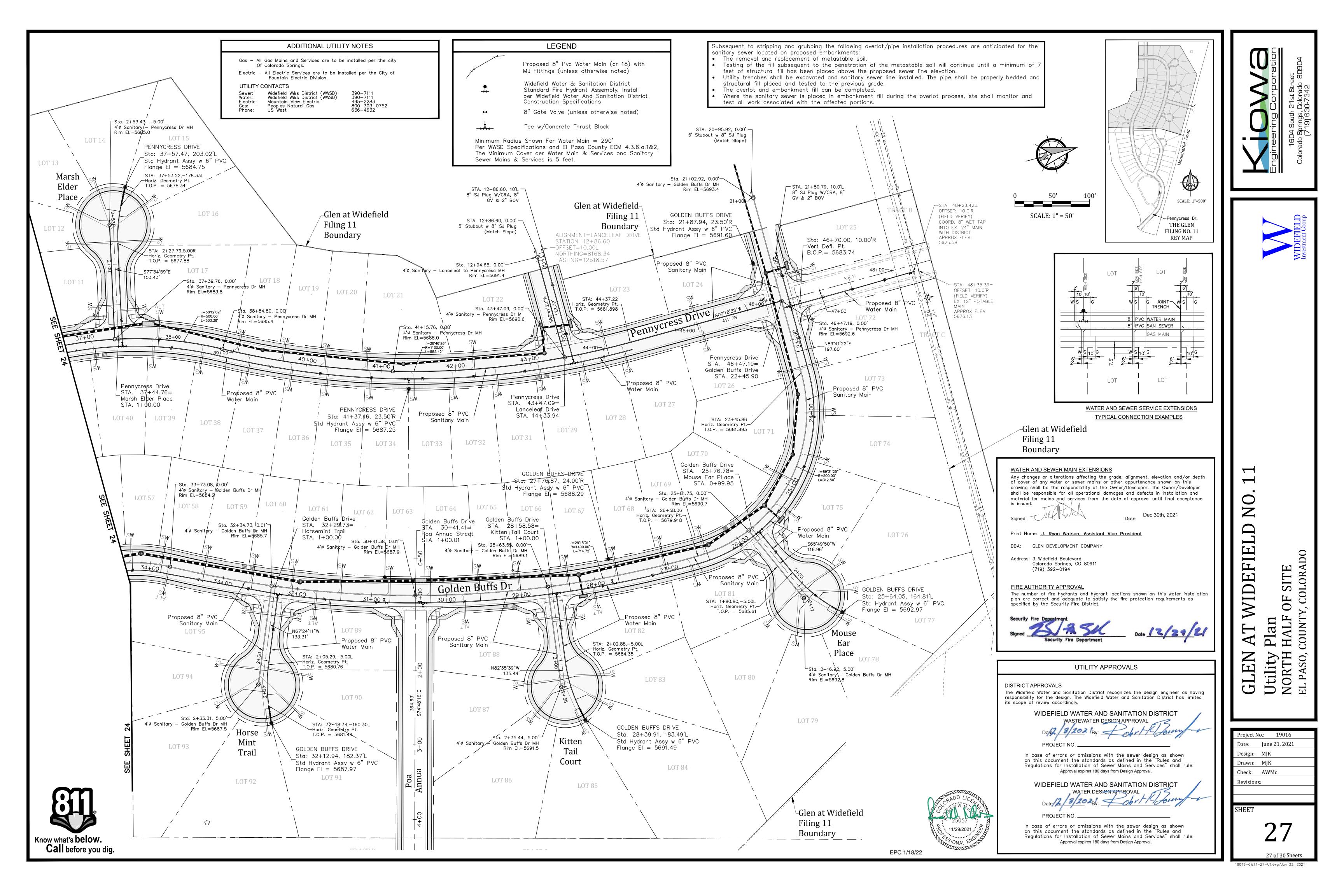
9016-GW11-23-EC.dwg/Jun 23, 20

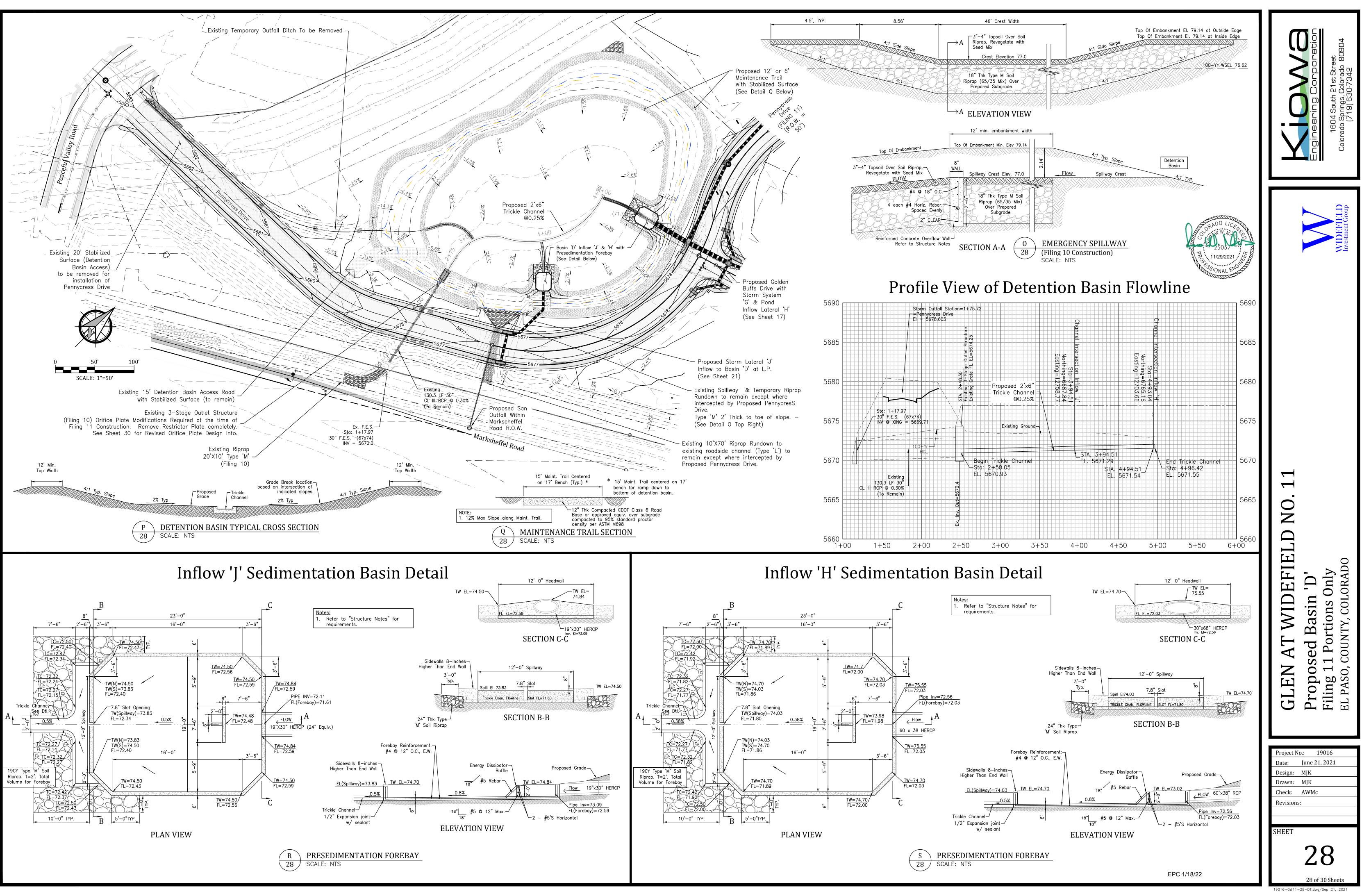
23 of 30 Sheets

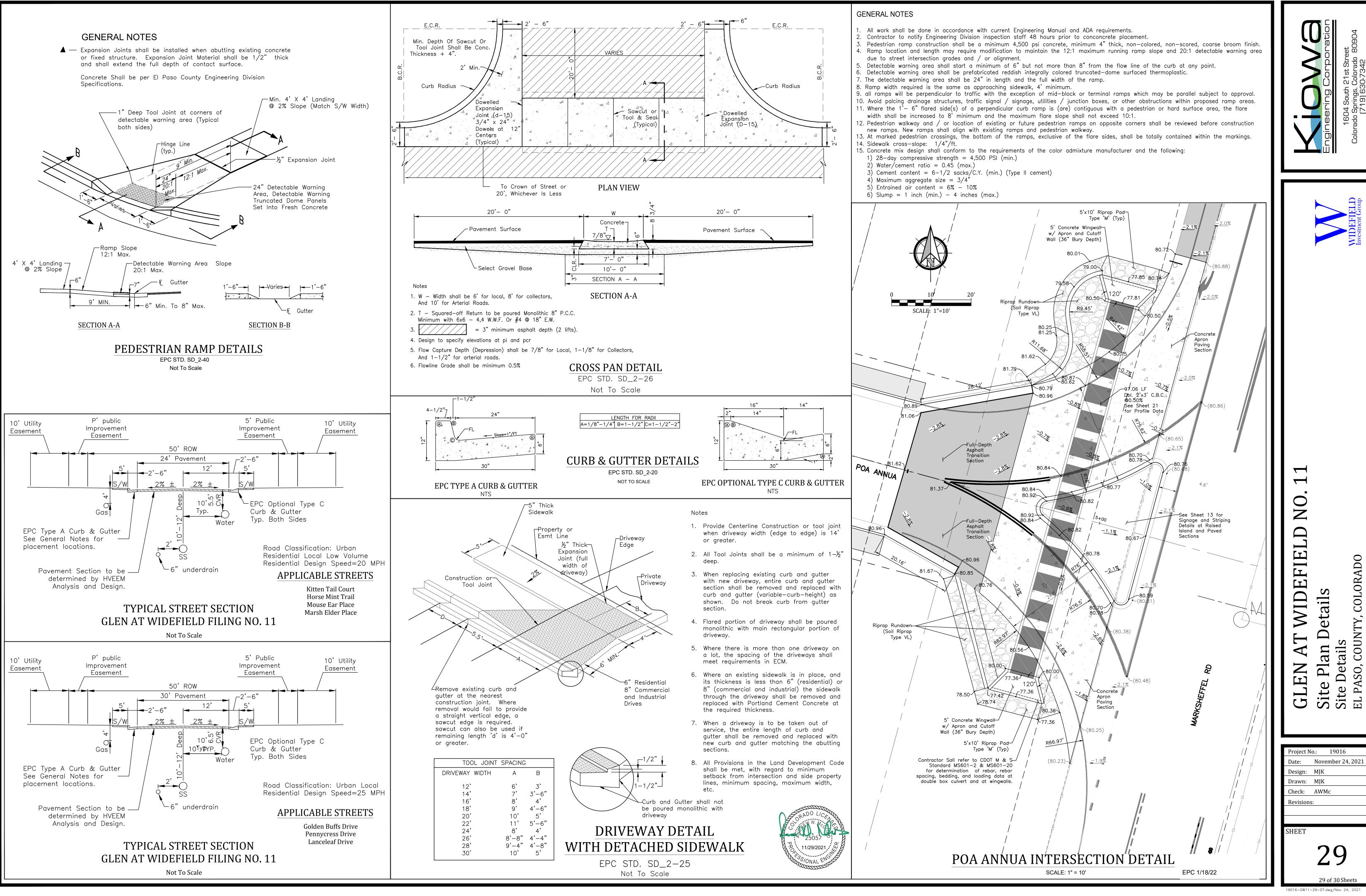










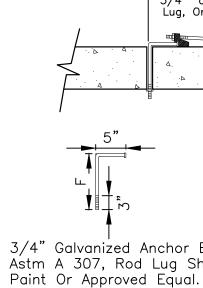


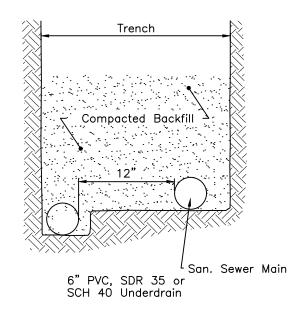
9016-GW11-29-DT.dwg/Nov 24, 202

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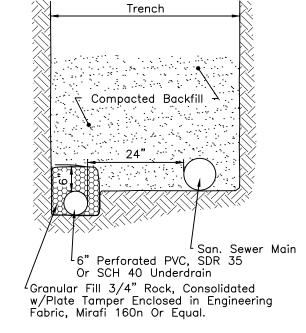
UNDERDRAIN NOTES

- 1. Underdrain to be constructed where indicated by a dashed line (---). 2. Solid drain pipe will be used in areas as shown on the plans and as directed
- by the Geotechnical Engineer 3. All underdrain construction shall conform with the latest City of Colorado
- Springs Standards. 4. Engineering Fabric to have a minimum 12-inch overlap above underdrain
- granular fill. 5. Underdrain Pipe to be constructed with the top of pipe equal to or below the
- bottom of the sanitary sewer pipe.
- 6. Geotechnical Engineer to determine extent of active/passive underdrain depending upon conditions encountered during construction.
- 7. The Connection between the active and passive portions of the underdrain system is to be constructed with a non-permeable barrier so that all collected groundwater is directed into the passive pipe section.

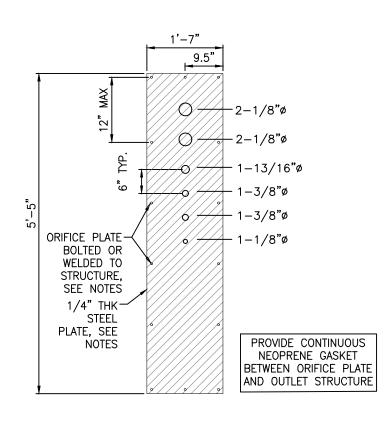




PASSIVE UNDERDRAIN DETAIL Not To Scale

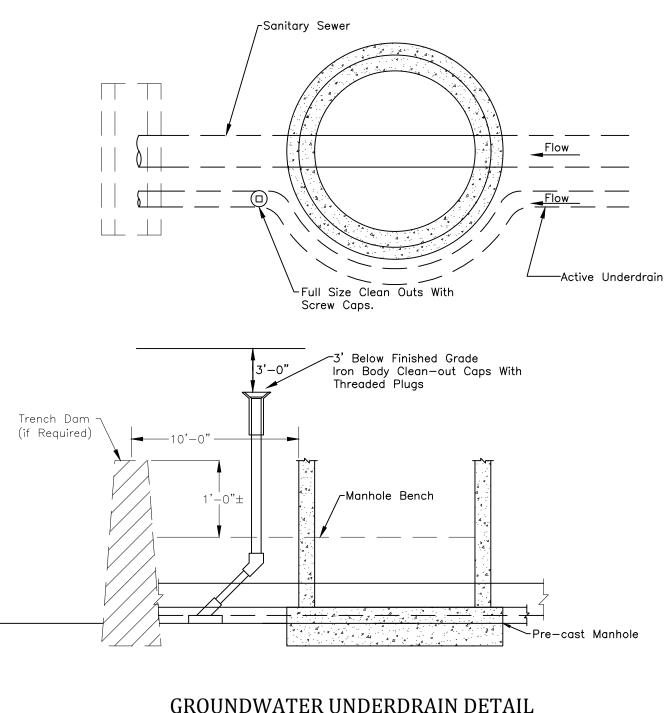


ACTIVE UNDERDRAIN DETAIL Not To Scale

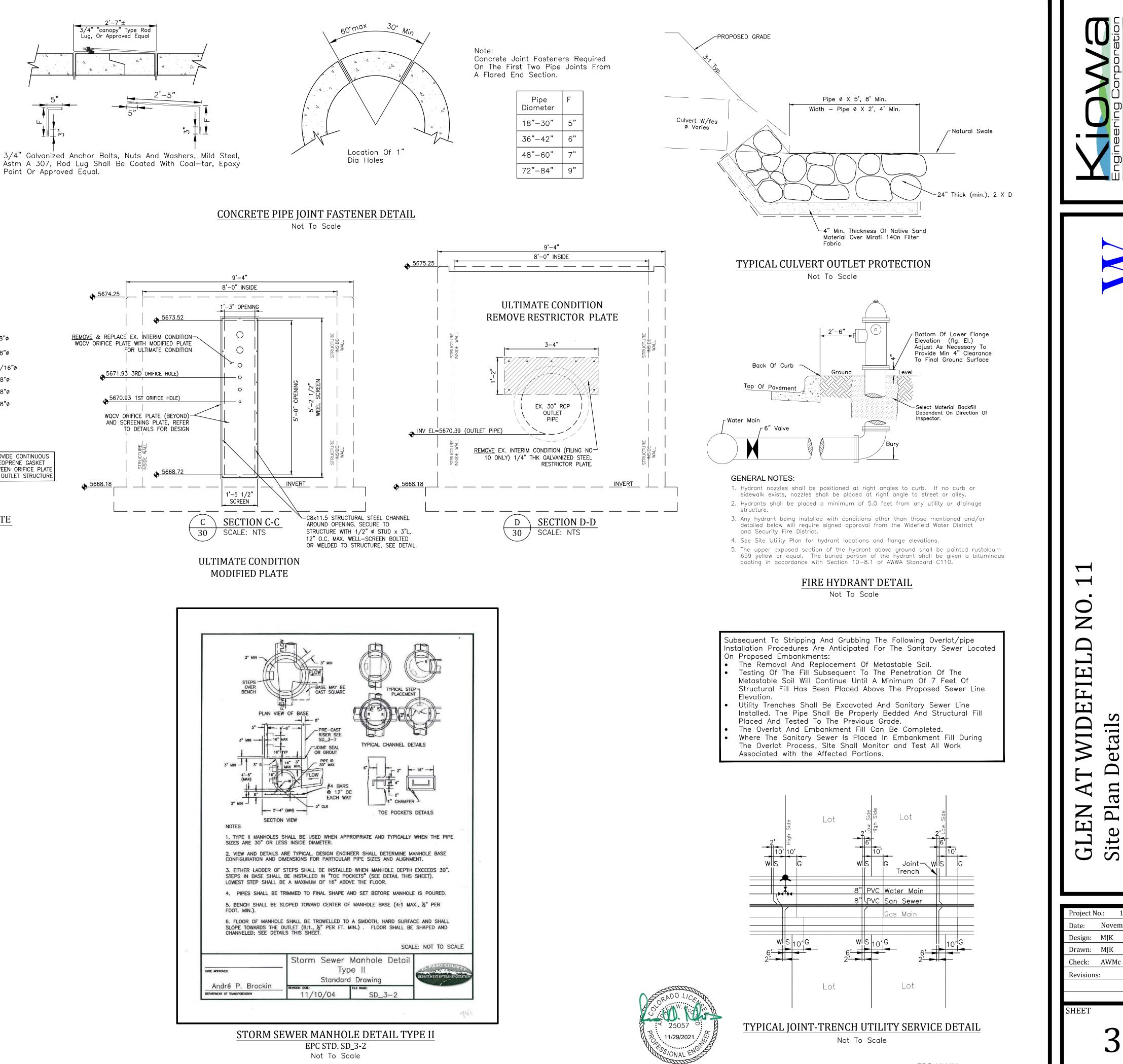


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MODIFIED WQCV ORIFICE PLATE SCALE: NTS



CLEANOUT LOCATIONS OUTSIDE MANHOLE



Project November 24, 2021 Date: November 24, 2021 Design: MJK Drawn: MJK Check: AWMc Revisions: SHEET SHEET 30 of 30 Shoots	GLEN	Site Plo Utility E EL PASO,
Date: November 24, 2021 Design: MJK Drawn: MJK Check: AWMc Revisions: SHEET SHEET		
Design: MJK Drawn: MJK Check: AWMc Revisions: SHEET 30	Project N	o.: 19016
Drawn: MJK Check: AWMc Revisions: SHEET 30	Date:	November 24, 2021
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