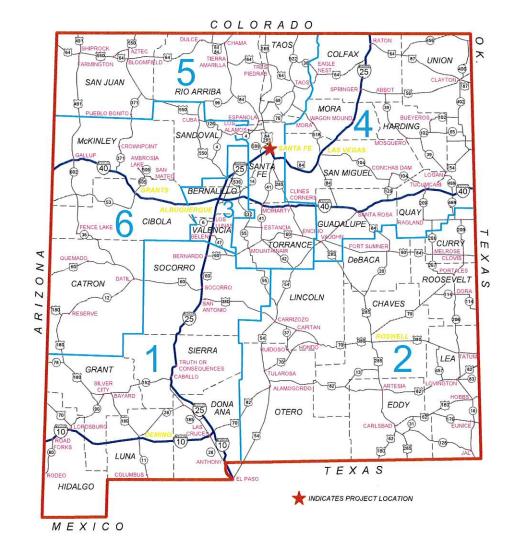


SANTA FE COUNTY COLLEGE DRIVE EXTENSION CONSTRUCTION PLANS

SANTA FE COUNTY, NEW MEXICO









LENGTH OF PROJECT 0.577 miles

THIS PROJECT BEGINS IN SECTION 21, T.16N, R.9E, N.M.P.M. THIS PROJECT ENDS IN SECTION 21, T.16N, R.9E, N.M.P.M.

DESIGN SPEED = 30 MPH

ROADWAY CLASSIFICATION = URBAN MINOR COLLECTOR



END of PROJECT (EOP) STA. 48+27.90



BEGINNING of PROJECT (BOP) STA. 17+80.52

VICINITY MAP

INTENT OF PROJECT

THE SCOPE OF THIS PROJECT INCLUDES NEW ROADWAY CONSTRUCTION OF THE EXTENSION OF COLLEGE DRIVE. CONSTRUCTION INCLUDES RAISED MEDIANS, RIGHT AND LEFT TURN LANES, BICYCLE LANES, PEDESTRIAN PATH, MISCELLANEOUS DRAINAGE IMPROVEMENTS, WATER LINE, AND PERMANENT SIGNING AND STRIPING.

PROJECT CONTACT INFORMATION

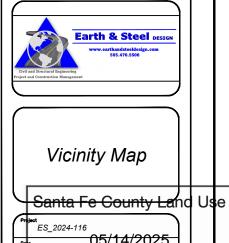
SANTA FE COUNTY PROJECT MANAGER

Curt Temple Office: (505) 992-9853

DESIGN CONSULTANT

Ivan P. Trujillo Earth & Steel Design, LLC Cell: (505) 470-5506





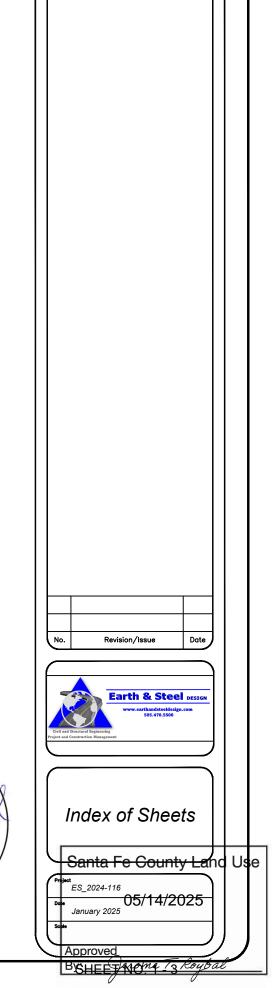
March 2025

By: SHEROMAG Mogbal

General Notes

Earth & Steel DESIGN

INDEX OF SHEETS	
DESCRIPTION	
COVER SHEET	
ENVIRONMENTAL COMMITMENTS	
	SUBTOTAL = 6
TRAIL GEOMETRY LAYOUT	
	SUBTOTAL = 12
PLAN AND PROFILE SHEETS	
	SUBTOTAL = 3
NOT USED	
	SUBTOTAL = 0
NOT USED	
	SUBTOTAL = 0
TRAFFIC CONTROL PLAN	
	SUBTOTAL = 1
PERMANENT SIGNING AND STRIPING PLANS	
	SUBTOTAL = 1
NOT USED	
	SUBTOTAL = 0
NOT USED	
	SUBTOTAL = 0
NOT USED	
	SUBTOTAL = 0
WATER SYSTEM PLANS	
	SUBTOTAL = 5
NOT USED	
	SUBTOTAL = 0
NOT USED	
	SUBTOTAL = 0
CROSS SECTIONS	
	SUBTOTAL = 16
NMDOT STANDARD DRAWINGS	
	SUBTOTAL = 7
	PROJECT SHEET TOTAL = 51
	DESCRIPTION COVER SHEET VICINITY MAP INDEX OF SHEETS SUMMARY OF QUANTITIES GENERAL NOTES ENVIRONMENTAL COMMITMENTS TYPICAL SECTIONS MISCELLANEOUS DETAILS SURFACING SCHEDULE SWPPP INFORMATION SHEET DRAINAGE SUMMARY MEDIAN GEOMETRY LAYOUT TRAIL GEOMETRY LAYOUT PLAN AND PROFILE SHEETS NOT USED NOT USED



General Notes



	SUMMARY OF QUANTITIES		ROAD	WAY	CONSTR		CONSTRUCT	ION SIGNING	PERMA SIGN		PROJECT TOTAL	
ITEM NO.	DESCRIPTION	BID UNIT	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL
201000	CLEARING AND GRUBBING	LS	LS								LS	
203000	UNCLASSIFIED EXCAVATION	C.Y.	2,810								2,810	
203100	BORROW	C.Y.	3,265								3,265	
207000	SUBGRADE PREPARATION	S.Y.	17,000								17,000	
303160	BASE COURSE 6"	S.Y.	16,240								16,240	
407000	ASPHALT MATERIAL FOR TACK COAT	TON	5								5	
408100	PRIME COAT MATERIAL	TON	30								30	
416104	MINOR PAVING TYPE I, HMA SP-IV	TON	3,240								3,240	
570024	24" CULVERT PIPE	L.F.	606								606	
570025	24" CULVERT PIPE END SECTION	EACH	10								10	
601000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	LS								LS	
602000	RIPRAP CLASS A	C.Y.	27								27	
603051	CLEAN WATER ACT COMPLIANCE WORK PLAN	LS	LS								LS	
603262	COMPOSTED MULCH SOCKS	L.F.	3047								3,047	
603281	SWPPP PLAN PREPARATION AND MAINTENANCE	LS	LS								LS	
604300	GEOGRID REINFORCEMENT	S.Y.	13,430								13,430	
607014	WOVEN WIRE FENCE 4'	L.F.	3,047								3,047	
608004	CONCRETE SIDEWALK 4"	S.Y.	17								17	
608304	CONCRETE MEDIAN PAVEMENT 4" (COLORED)	S.Y.	421								421	
609006	CONCRETE CURB 6"	L.F.	1,279								1,279	
618000	TRAFFIC CONTROL MANAGEMENT	LS			LS						LS	
621000	MOBILIZATION	LS			LS						LS	
623000	MEDIAN DROP INLET TYPE I (URBAN) H=0'0" TO 3'0"	EACH	2								2	
632000	CLASS A SEEDING	ACRE	6								6	
663206	WATER SYSTEM	LS	LS								LS	
701000	PANEL SIGNS	S.F.							40		40	
701100	STEEL POST AND BASE POST FOR ALUMINUM PANEL SIGNS	L.F.							90		90	
702810	TRAFFIC CONTROL DEVICES FOR CONSTRUCTION	LS					LS				LS	
703001	OBJECT MARKER TYPE 1	EACH							10		10	
704000	RETROREFLECTORIZED PAINTED MARKINGS 4"	L.F.							17069		17,069	
704002	RETROREFLECTORIZED PAINTED MARKINGS 6"	L.F.							1210		1,210	
704706	HOT THERMOPLASTIC PAVEMENT MARKINGS 12"	L.F.							22		22	
704717	HOT THERMOPLASTIC PAVEMENT MARKING RIGHT ARROW	EACH							2		2	
704718	HOT THERMOPLASTIC PAVEMENT MARKING LEFT ARROW	EACH							2		2	
704719	HOT THERMOPLASTIC PAVEMENT MARKING THRU ARROW	EACH							4		4	
801000	CONSTRUCTION STAKING BY THE CONTRACTOR	LS	1		LS						LS	
802000	POST CONSTRUCTION PLANS	LS	1		LS						LS	

Earth & Steel DESIGN Summary of Quantities Santa Fe County Land Use

General Notes



ROADWAY CONSTRUCTION

- ALL ROADWAY CONSTRUCTION AND RE-CONSTRUCTION SHALL COMPLY WITH THE NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2019 EDITION AND SUBSEQUENT REVISIONS.
- . A TRAFFIC CONTROL PLAN STAMPED BY A NM PROFESSIONAL ENGINEER IS REQUIRED FOR ALL PROJECTS WITHIN ANY SANTA FE COUNTY
- THE CONTRACTOR MUST ADHERE TO ALL REQUIREMENTS AS SET FORTH IN ORDINANCE 2003-1 EXCAVATION/RESTORATION ORDINANCE FOR ALL WORK WITHIN SANTA FE COUNTY RIGHT OF WAY.
- ORDINANCE FOR ALL WORK WITHIN SANIA FE COUNTY RIGHT OF WAY.

 I. THE CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH N.M. DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ANY APPLICABLE SPECIAL PROVISION AND/OR SUPPLEMENTAL SPECIFICATION, AS WELL AS THE MOST CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, UNLESS OTHERWISE SPECIFIED HEREIN, ALL COSTS RELATED TO TRAFFIC CONTROL SHALL BE INCLUDED IN ITEM 618000, TRAFFIC CONTROL MANAGEMENT.

 DRAINAGE PIEC SPECIFIED AS CORRUCATED METAL PIPE (CAMP) SHALL BE 16-GAUGE MINIMUM AND STORM DRAIN MANNOLES SHALL HAVE STANDARD SE COUNTY COVERS AND RINGS.
- CONTRACTOR SHALL NOT BEGIN ANY CONSTRUCTION ACTIVITY WITHOUT THE APPLICABLE PERMITS FROM THE SANTA FE COUNTY. A COPY OF THE APPROVED DRAWNINGS SHALL ALWAYS BE AVAILABLE AT THE CONSTRUCTION SITE DURING BUSINESS HOURS AND ORGANIZED BY THE PROJECT ENGINEER.
- A COPY OF THE APPROVED DRAWINGS SHALL ALWAYS BE AVAILABLE AT THE CONSTRUCTION SITE DURING BUSINESS HOURS AND ORGANIZED BY THE PROJECT ENGINEER.

 A SANTA FE COUNTY, INITIATED PRECONSTRUCTION CONFERENCE SHALL BE CONDUCTED IN THE PRESENCE OF THE PROJECT ENGINEER AND OR THE OWNERS PROJECT REPRESENTATIVE (OPR) PRIOR TO THE INITIATION OF ANY CONSTRUCTION ACTIVITY. IN ADDITION, THE CONTRACTOR SHALL NOTIFY THE COUNTY NO LESS THAN 24 HRS FROM THE BEGINNING OF ANY CONSTRUCTION WORK.
- THE OPR SHALL BE RESPONSIBLE FOR INITIATING ANY NECESSARY REVISIONS TO THE APPROVED DESIGN DRAWINGS. ALL APPROPRIATE
- I. THE OPR SHALL BE RESPONSIBLE FOR INITIATING ANY NECESSARY REVISIONS TO THE APPROVED DESIGN DRAWINGS, ALL APPROPRIATE DRAWINGS AND DESIGN CRITERIA TO SUPPORT SUCH CHANGES. ALL CHANGE-SUPPORTING DOCUMENTATION SHALL BE STAMPED BY A LICENSED ENGINEER IN NEW MEXICO, AND APPROVED BY SANTA FE COUNTY AS A CHANGE ORDER PRIOR TO EXECUTING ANY WORK.

 THE CONTRACTOR SHALL RETAIN THE SERVICES OF A NEW MEXICO PROFESSIONAL SURVEYOR FOR VERIFICATION OF CRITICAL HORIZONTAL AND VERTICAL CONTROL AND THE CERTIFICATION OF RECORD BOAWINGS. GRITICAL ELEVATIONS OR HORIZONTAL CONTROL MAY BE IDENTIFIED BY THE COUNTY PROJECT MANAGER OR OPR AT HIS/HER DISCRETION. THE CONTRACTOR SHALL MAINTAIN AT HE SITE A COPY OF ALL FIELD NOTES. TO BE MADE AVAILABLE FOR REVIEW BY THE COUNTY PROJECT MANAGER OR OPR AT ANY TIME DURING THE SECUTION OF THE PROJECT. THE UPDATING OF SUCH DRAWINGS AND FIELD NOTES SHALL BE DONE FREQUENTLY. NOT LESS THAN ONCE BY WOW WERE PRIOR TO FIRML ACCEPTANCE OF THE PROJECT, CONTRACTOR SHALL SUBMITT OT HE OPR COMPLETE REFORD DRAWINGS. AND FILED NOTES SHALL BE AND THE PROJECT. THESE DATA SHALL BE STAMPED BY A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR, AND SUBMITTED TO THE COUNTY PROJECT MANAGER OR OPR AN SHALL BE STAMPED BY A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR, AND SUBMITTED TO THE COUNTY PROJECT MANAGER OR OPR IN PRELIMINARY FORM FOR REVIEW AND APPROVAL. ANY REVISIONS NECESSARY SHALL BE RESUBMITTED IN THE FINAL PROJECT CLOSEOUT SUBMITTAL PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. FINAL ASSUMITS SHALL BE SUBMITTED ON 24X56 AND IN DEFORMANT.
- IF EXISTING UTILITIES HAVE BEEN SHOWN ON THESE DRAWNINGS THEY ARE FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SPOT-LOCATION OF ALL EXISTING UNDEFCROUND UTILITIES BY THE APPROPRIATE UTILITY COMPANY. CONTRACTOR SHALL CONTRACT NEW MEXICO ONE CALL AT (800)321-2537, TO COORDINATE SPOT LOCATION OF UNDERGROUND UTILITIES NO LESS THAN 2 DAYS PRIOR TO INITIATING ANY WORK.
- FOR ALL CONCRETE USED, THE DESIGN COMPRESSIVE STEENGTH AT 7 DAYS 1,500 PSI MINIMUM, AND 4,000 PSI AT 28 DAYS. THE CONCRETE SHALL BE A 6 BAG MIX AND MAXIMUM 3/4 INCH AGGREGATE SIZE AIR ENTRAINMENT SHALL BE BETWEEN 4 AND 7 PERCENT.

 THERE (3) CONCRETE CYLINDER SAMPLES SHALL BE TAKEN FOR EVERY 50 CUBIC YARDS OF CONCRETE INSTALLES, OR A MINIMUM OF CNE SAMPLE PER DAY, WHICHEVER IS GREATER, CONCRETE CYLINDERS SHALL BE TEST-BROKEN AT 7 DAY INTERVALS. TEST RESULTS SHALL BE SUBMITTED DIRECTLY TO THE OPP, AND TO THE COUNTY IN THE FINAL PROJECT CLOSEOUT SUBMITTAL, PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
- NOT LESS THAN 5 DAYS PRIOR TO INITIATING ANY WORK, THE CONTRACTOR SHALL SUBMIT A DUST SUPPRESSION AND EROSION CONTROL PLAN FOR THE PROJECT MANAGER AND OR OPR'S APPROVAL. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN SUCH A MANNER THAT WILL HAVE NO ADVERSE EFFECT UPON ADJACENT PROPERTIES OR PUBLIC ROADWAYS.
- CLEARING SHALL BE KEPT TO A MINIMUM, AND STABILIZATION OF BARE SURFACES SHALL BEGIN PROMPTLY AFTER COMPLETION OF CONSTRUCTION ACTIVITIES, AND IN COMPLIANCE WITH EPA REQUIREMENTS IN THE PROJECT'S SWPPP.
- CONTRACTOR SHALL CONFINE ALL CONSTRUCTION OPERATIONS TO THE LIMITS OF THE PROJECT DEFINED IN THESE DRAWINGS, ANI IN NO WAY BIRCHOACH ONTO ADJACENT PROPERTIES, UNIESS LEGAL EASEMENTS ARE PROVIDED. CONTROLLED WITH A BURNING AND A
- OVER-EXCAVATION OF ANY UTILITY TRENCHES SHALL NOT BE PERMITTED, UNLESS IT IS DETERMINED, TO THE SATISFACTION OF THE DESIGN ENGINEER, THAT THE SUBSOIL IS NOT SUITABLE FOR PIPE 3EDDING AND MUST BE REPLACED WITH IMPORTED FILL. OVER-EXCAVATION PERFORMED UNINECESSAILLY BY THE CONTRACTOR SHALL BE REMEDIED WITH CLASSIFIED FILL AND COMPACTION AS REQUIRED FOR CLASS-D BEDDING OR BETTER, AT THE CONTRACTOR'S EXPENSE.
- ONE SET OF BACKFILL DENSITY TESTS SHALL BE PERFORMED FOR EVERY 12 INCH LIFT FOR EACH 200 LINEAR FEET OF PIPELINE, OR FOR ANY STRUCTURE THAT REQUIRES COMPACTED FOUNDATION OR CONTROLLED BACKFILL. FOR PIPELINES OR UTILITIES IN ROADWAYS THE THE TESTING INTERVAL SHALL BE FOR EACH FOO LINEAR REET.
- SUBGRADE, BASE MATERIAL, ASPHALT-TREATED BASE, AND ASPHALT SURFACE COURSE (MARSHALL) SHALL BE TESTED FOR COMPACTION EVERY 100 LINEAR FEET. ONE ASPHALT SAMPLE SHALL BE TAKEN FOR EVERY 500 TONS INSTALLED, OR ONE A DAY, WHICHEVER IS LESS, SAMPLES SHALL BE TESTED AND THE RESULTS SENT TO THE OPR.
- BASECOLIRSE SHALL BE COMPACTED TO NO LESS THAN 98% OF MAXIMUM DENSITY LISING AASHTO, T-180 MODIFIED MOISTURE DENSIT TEST. BASECOURSE SHALL MEET GRADATION REQUIREMENTS SPECIFIED IN TABLE 421 CLASS B, NMSHTD, "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".
- CONTRACTOR SHALL SUBMIT ASTM OR AAS-ITO CERTIFICATES OF MATERIALS' COMPLIANCE TO THE OPP, BUT NO LESS THAN 5 DAYS PRIOR TO INITIATING ANY WORK INVOLVING SUCH MATERIALS. OPP SHALL SUBMIT THESE MATERIAL CERTIFICATES TO THE COUNTY IN THE FINAL PROJECT CLOSEOUT SUBMITTAL, PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
- CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT HORIZONTAL AND VERTICAL CONTROL SURVEY MONUMENTS (MARKS) FROM DAMAGE DURING CONSTRUCTION. IF DURING THE EXECUTION OF THE PROJECT, THE CONTRACTOR'S ACTIVITIES DISTURB OR DESTRO SUCH MARKS, A NEW MEXICO LICENSED SURVEYOR HIRED BY THE CONTRACTOR'S EXPENSE, SHALL RE-ESTABLISH THE MARKS IN ACCORDANCE WITH THE STANDARDS AND PROCEDURES SET FORTH BY THE "GEODETIC MARK PRESERVATION GUIDEBOOK". FOR MORE INFORMATION CONTRACT NOS MARK PRESERVATION CUENTER, DAGA (SOS) 768-360-4
- CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING STRUCTURES FREE OF DUST AND/OR CONSTRUCTION DEBRIS AT ALL TIMES DURING THE EXECUTION OF THE PROJECT. ALL EXISTING AND NEW STRUCTURES SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. ALL COSTS RELIZED TO THIS ITEM SHALL BE INCIDENTAL TO THE WORK AND NO EXTRA PAYMENTS SHALL BE MADE TO THE
- CONTRACTOR SHALL REPAIR ANY EXISTING STRUCTURE OR UTILITY CONDUIT, AND ITS UTILITY CORRIDOR/EASEMENT DAMAGED AS A RESULT OF THE EXECUTION OF THE PROJECT, AT NO ADDITIONAL COST TO SANTA FE COUNTY OR THE RESPECTIVE UTILITY. EXISTING ROADS ACCESS FOR ADJACENT PROPERTIES SHALL 3E MAINTAINED UNDER ALL TYPICAL WEATHER CONDITIONS.
- ALL AREAS DISTURBED BY THE CONSTRUCTION ACTIVITIES OF THIS PROJECT SHALL BE RESTORED, RE-GRADED, PER THE RE-VEGETATION PLAN, OR IN A MANNER ACCEPTABLE TO SANTA FE COUNTY, AND IN COMPLIANCE WITH PROJECT'S SWPPP.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR EROSION CONTROL INCIDENTAL TO THE CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL SUBMIT TO SANTA FE COUNTY A STORM WATER POLLUTION PREVENTION PLAN (SWPP) THAT WILL ADDRESS ALL CONSTRUCTION PHASES. THIS SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (MPDES) GENERAL CONSTRUCTION PERMIT (2012 GEP) REQUIREMENTS FOR ALL CONSTRUCTION PERMIT (2012 GEP) REQUIREMENTS FOR ALL CONSTRUCTION PERMIT (2012 GEP). REQUIREMENTS FOR ALL CONSTRUCTION PERMIT (2012 GEP). THE CONTRACTOR SHALL PROCURE A STORM WATER POLLUTION PERMIT FROM USEPA, A MINIMUM OF 30 DAYS PRIOR TO INITIATING ANY SITE WORK.
- CONTRACTOR SHALL PROVIDE AN AREA TO STORE CONSTRUCTION DEBRIS WHERE IT WILL NOT BE A NUISANCE TO THE SURROUNDING NEICHBORHOOD. ALL DEBRIS SHALL BE CONTAINED IN SUCH A MANNER THAT WILL PREVENT SCATTERING, AND BE IN COMPLIANCE WITH THE PROJECT'S SWPP, ALL DEBRIS, NCLUDING TREES AND UNDERGROWTH SHALL BE DISPOSED OF PROPERLY WITHIN AN APPROVED LANDFILL, AND REMOVED FROM THE SITE PRIOR TO FINAL INSPECTION.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PROTECTION OF THE WORK MATERIALS AND EQUIPMENT PRIOR TO AND AFTER THEIR INSTALLATION AS APPLICABLE, UNTIL THE PROJECT'S FINAL ACCEPTANCE BY SANTA FE COUNTY.
- THE MAXIMUM DEVIATION OF THE TOP OF SURFACE AT THE CURB AND GUTTER SHALL NOT EXCEED 1/8 INCH PER 10 FEET, NOR SHALL THE INSIDE FACE DEVIATE MORE THAN 1/4 INCH PER 10 FEET FROM A STRAIGHT LINE. PRIOR OR DURING THE COUNTY'S FINAL INSPECTION, ALL CURB AND GUTTER SHALL BE TESTED FOR POSITIVE WATER FLOW. ANY AREAS THAT FAIL THIS TEST SHALL BE REJECTED.
- UTILITY LINES SHALL BE BORED UNDER ALL EXISTING STREETS, CONCRETE FEATURES, AND A MINIMUM 12-INCH SEPARATION SHALL BE MAINTAINED BETWEEN LINES. ALL CURB, GUTTER, SIDEWALK AND ASPHALT DAMAGE IN COUNTY, STATE OR PRIVATE RIGHT OF WAY RESULTING FROM ANY CONSTRUCTION ACTIVITY SHALL BE REPAIRED BEFORE FINAL INSPECTION AT THE CONTRACTORS EXPENSE.
- BEFORE PAVEMENT IS INSTALLED THE SANITARY SEWER TV INSPECTION SHALL OCCUR. A COMPLETION LETTER FROM EACH UTILITY COMPANY SHALL BE SUBMITTED TO THE GROWTH MANAGEMENT DEPARTMENT PRIOR TO PAVING ACTIVITIES.
- NO ALTERATION OR MODIFICATION TO ANY DRAINAGE WAY OR ARROYO SHALL BE PERMITTED WITHOUT FIRST OBTAINING A WRITTEN APPROVAL FROM THE COUNTY FLOOD PLAN ADMINISTRATOR.
- THE DESIGN ENGINEER AND SANTA FE COUNTY WAIVE ANY AND ALL RESPONSIBILITY AND IS NOT LIABLE FOR PROBLEMS THAT MAY ARISE FROM THE CONTRACTOR'S FAILURE TO FOLLOW THESE DRAWINGS, SPECIFICATIONS, THE DESIGN INTERT HEY CONVEY, OR FOR PROBLEMS ARISING FROM FAILURE TO OBTAIN AND/OR FOLLOW THE EMGINEER'S METTIEN RESPONSE REQUESTS FOR INFORMATION OR CLARIFICATION WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS.
- ALL ACCESS AND EXCAVATION PERMITS ARE TO BE OBTAINED FROM THE SANTA FE COUNTY PUBLIC WORKS DEPARTMENT ALL ACCESS AND EXAMPLED PERMITS ARE 10 9 OBTAINED FROM THE SANTA FE BULDIN FORDER WORKS DEFAMENT.
 SUCH PERMITS SHALL BE REQUESTED FOR ALL CURB CUTS OR DRIVEWAYS TO BE BULLT IN COUNTY RIGHT OF WAY, DRIVEWAYS
 SHALL NOT BE INSTALLED PRIOR TO COUNTY'S APPROVAL OF SITE SPECIFIC PLANS AND THE CONTRACTOR HAS PROCURED A
 PERMIT FROM THE COUNTY PUBLIC WORKS DEPARTMENT.

- ALL WATER LINE AND FITTING MATERIALS AND THEIR INSTALLATION SHALL COMPLY WITH THE AMERICAN WATERWORKS
 ASSOCIATION (AWWA) STANDARDS, THE NEW MEXICO STANDARD SPECIFICATIONS FOR PJEILE (WORK CONSTRUCTION, (MAPWA)
 2006 EDITION, OR SUBSEQUENT REVISIONS, AND THE SANTA FE COUNTY WATER UTILITY CONSTRUCTION STANDARD AND
 SPECIFICATIONS MANUAL, UNLESS OTHERWISE INDICATED ON THESE DRAWINGS. WHEN CONFLICT ARISES AMONG THESE, THE
 LATTER SHALL PREVAIL.
- 2. LOCATION OF LINES AND FITTINGS SHALL BE IN ACCORDANCE WITH THE DETAILS SHOWN ON THESE DRAWINGS

- 3. UNLESS OTHERWISE INDICATED ON THESE DRAWINGS, PIPELINES AND ALL APPURTENANT FITTINGS SHALL BE DUCTILE IRON, PVC C-900, WITH CLASS-D BEDDING OR BETTER. MECHANICAL OR MEGALUG (B) JOINTS, OR THERMAL FUSION JOINING RESPECTIVELY (HDPE). EXCAVATION SHALL BE PROPERLY MADE TO ACCOMMODATE THE PIPE'S BELL ENDS AS NECESSARY. WATERLINES SHALL BE 6" DIAMETER OR LARGETER OR OF LARGET OR DATE OF THE PROPERTY MADE TO ACCOMMODATE THE PIPE'S BELL ENDS AS NECESSARY. WATERLINES SHALL BE 6" DIAMETER OR LARGET OR DATE OF THE PROPERTY MADE TO ACCOMMODATE THE PIPE'S BELL ENDS AS NECESSARY. WATERLINES SHALL BE 6" DIAMETER OR LARGET OR DATE OF THE PIPE'S AS NECESSARY. WATERLINES SHALL BE 6" DIAMETER OR LARGET OR DATE OF THE PIPE'S AS NECESSARY. WATERLINES SHALL BE 6" DIAMETER OR LARGET OR DATE OF THE PIPE'S AS NECESSARY. WATERLINES SHALL BE 6" DIAMETER OR LARGET OR DATE OF THE PIPE'S AS NECESSARY. WATERLINES SHALL BE 6" DIAMETER OR LARGET OR DATE OF THE PIPE'S AS NECESSARY. WATERLINES SHALL BE 6" DIAMETER OR LARGET OR DATE OF THE PIPE'S AS NECESSARY. WATERLINES SHALL BE 6" DIAMETER OR LARGET OR DATE OF THE PIPE'S AS NECESSARY. WATERLINES SHALL BE 6" DIAMETER OR LARGET OR DATE OF THE PIPE'S AS NECESSARY. WATERLINES SHALL BE 6" DIAMETER OR DATE OF THE PIPE'S AS NECESSARY. WATERLINES SHALL BE 6" DIAMETER OR LARGET OR DATE OF THE PIPE'S AS NECESSARY. WATERLINES SHALL BE 6" DIAMETER OR DATE OF THE PIPE'S AS NECESSARY. WATERLINES SHALL BE 6" DIAMETER OR DATE OF THE PIPE'S AS NECESSARY. WATERLINES SHALL BE 6" DIAMETER OR DATE OF THE PIPE'S DATE OF THE PIPE
- 4. ALL WATER LINES SHALL BE INSTALLED IN THEIR OWN TRENCH, WITH NO OTHER UTILITIES IN THE TRENCH, BURIED UNDER A MINIMUM 48 INCHES OF COMPACTED BACKFILL.
- 5. WHEN CROSSING, WATER LINES SHALL ALWAYS BE ABOVE SEWER LINES, AND A MINIMUM 18-INCH CLEARANCE SHALL BE ALLOWED BETWEEN THE BOTTOM OF THE WATER LINE AND THE TOP OF ANY SANITARY SEWER, UNLESS SPECIAL CROSSING PROVISIONS ARE SHOWN ON THESE DRAWINGS.
- 6. TYPICAL HORIZONTAL SEPARATION BETWEEN WATER LINES AND ANY SANITARY SEWER LINE SHALL BE MINIMUM 10 FEET, AND SEPARATE TRENCHES SHALL BE EXCAVATED IN ALL CASES.
- 7. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DISINFECTION AND PRESSURE TESTING OF ALL NEW WATER LINES, IN ACCORDANCE WITH AWWA STANDARDS. COUNTY UTILITY PERSONNEL SHALL BE PRESENT DURING SUCH TESTING, AND AN INSPECTION REPORT SHALL BE SUBMITTED BY THE CONTRACTOR TO THE COUNTY UTILITIES PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. THE CONTRACTOR SHALL BE FESPONSIBLE FOR GOODDINATING WITH THE COUNTY UTILITY STAFF FOR THEIR PRESENCE DURING FIELD TESTING OF LINES. BACTERIA TEST RESULTS OVER 30 DAYS OLD, BY THE COMPLETION OF THE PROJECT SHALL BE RETESTED AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 8. ALL VALVES 12" DIAMETER OR SMALLER SHALL BE FULL-PORT GATE TYPE, RESILENT SEATING, MECHANICAL OR MEGALUG (R) JOINTS, PIPE, AND INSTALLED IN COMPLIANCE WITH THE COUNTY WATER SYSTEM DETAILS.
- 9. UPON COMPLETION ONE VALVE SHALL BE TIED TO ONE OR MORE OF THE SANTA FE COUNTY'S PERMANENT SURVEY MONUMENTS, (OR OTHER VISIBLE WATER FEATURES OR FIXTURES) SUCH AS FIRE HYDRANTS AND WATER METERS WITH DISTANCES BETWEEN ALL FITTINGS AND APPURTENANCES PROVIDED AS REQUIRED IN THE UTILITY DEPARTMENTS CONSTRUCTION STANDADES AND SPECIFICATIONS MANUAL. THE WORK SHALL BE PERFORMED BE A REGISTERED NEW MEXICO LICENSED SURVEYOR, OR ENGINEER WITH INFORMATION PROVIDED BY THE CONTRACTOR.
- O. ALL FIRE HYDRANTS SHALL BE SUPPLIED WITH NFP CONNECTORS, AND NUMBERED (NUMBER SUPPLIED BY THE COUNTY FIRE DEPARTMENT). HYDRANTS SHALL BE INSTALLED TO ALLOW A MINIMUM HORIZONTAL CLEARANCE OF 3-FEET ALL AROUND THEM.
- SHALL BE INSTALLED TO ALLOW A MINIMUM HORIZONTAL CLEARANCE OF 3-FEET ALL AROUND THEM.

 I. WATER SERVICE CONNECTIONS AND METERS SHALL BE +INCH MINIMUM DIAMETER FOR LOTS THAT WILL BE THE SITE
 FOR RESIDENTIAL BUILDINGS EQUIPPED WITH FIRE SUPPRESSION SYSTEMS. OTHERWISE, CONNECTIONS AND METERS SHALL BE
 STANDARD 5/8 INCH DIAMETER. METER SETTERS SHALL BE PER STANDARD REQUIRED IN SANTA FE COUNTY WITHIY DEPARTMENT'S
 CONSTRUCTION STANDARDS AND SPECIFICATIONS MANUAL METERS SHALL BE REPTUNE MACHENDARD TRANSMITTER.

 12. LOCATE WIRES SHALL BE INSTALLED ON ALL WATER LINES. THE LOCATE WIRE MUST BE VISIBLE IN ALL VALVE VAULTS, MANHOLES OR OTHER ACCESS
 STRUCTURES. THIS WILL BE VERIFIED DURING THE PRELIMINARY INSPECTION PRIOR TO PAVING. THE LOCATE WIRE SHALL BE A CONTINUOUS, 10 GAUGE,
 SOLD STRAND INSULATED COPPER WIRE. SPLICES OF THE LOCATE WIRE SHALL FOLLOW THE SPECIFICATIONS IN THE SANTA FE COUNTY UTILITY
 DEPARTMENT'S CONSTRUCTION STANDARDS AND SPECIFICATIONS MANUAL.

 I. BILE CARSONITE MARKERS WITH SECTUL DESTRUCTS AND REVIEW 200 EET, ALONG DIRECTIONS.
- 13, BLUE CARSONITE MARKERS WITH SFCU I.D. STICKERS ARE REQUIRED ON ALL VALVES AND APPURTENANCES, AND EVERY 200 FEET ALONG PIPELINES THAT ARE NOT IN ROADWAY SANITARY SEWER LINE CONSTRUCTION
- ALL SANITARY SEWER LINE INSTALLATION SHALL 3E IN COMPLIANCE WITH THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (IMMAPWA), 2006 EDITION, SUBSEQUENT REVISIONS AND THE SANTA FE COUNTY WATER UTILITIES STANDARD DETAILS AND RECQUIREMENTS, OUNCESS OTHERWISS SPECIFIED ON THESE DRAWINGS.
- 2. PUBLIC SANITARY SEWER LINES SHALL BE A MINIMUM 8-INCH DIAMETER, PVC SDR 26, OR GRAY HDPE DR 11, WITH CLASS D BEDDING OR BETTER, UNLESS OTHERWISE SHOWN ON THESE DRAWINGS. SEWER SERVICE CONNECTIONS SHALL BE OF CAST IRON TAPPING SADDLE WITH STAINLESS STEEL TENSION STRAFTYPE, OR APPROVED EQUIVALENT BY ENGINEER.
- 3. SANITARY SEWER MANHOLES SHALL HAVE STANDARD SF COUNTY COVERS AND RINGS.
- 3. SANTARY SEWER MANDULES SHALL HAVE STANDARD ST COUNT COVERS AND RINGS.
 4. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PRESSURE TESTING. IN ACCORDANCE WITH NMAPWA STANDARDS, AND TELEVISION INSPECTION OF ALL SEWER LINES, PRIOR TO PAVING, OF THE ROADS UNDER WHICH SEWER LINES HAVE BEEN INSTALLED. COUNTY UTILITY PERSONNEL SHALL BE PRESENT DURING SUCH TESTING AND AN INSPECTION REPORT SHALL BE SUBMITTED BY THE PROJECT ENGINEER TO THE PROJECT MANAGER AND COUNTY WATER UTILITIES DEPARTMENT PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. SANTA FE COUNTY SHALL REVIEW THE VIDEOS AND TESTS IN DETAIL TO IDENTIFY ANY DEFICIENCIES AND THE CONTRACTOR SHALL CORRECT THEM AS NECESSARY. ALL VIDEO AND TESTS SHALL BE PREPARED IN A RATIONAL SEQUENCE AND PROPERLY LABELED LINES AND MANHOLES SHALL BE IDENTIFIED BY THE NAMES AND STATIONING GIVEN IN THE DESIGN DRAWINGS. VIDEOS SHALL THEN BE TURNED INTO THE COUNTY FOR REVIEW PRIOR TO ACCEPTANCE OF THE SEWER LINES, AND PRIOR TO PAVING.
- THE COUNTY FOR REVIEW PRIOR TO ACCEPTANCE OF THE SEWER LINES, AND PRIOR TO PAVING.

 5. LOW PRESSURE SEWER LINES SHALL NOT LOSE ARY MORE THAN 5 PT. SIN WEN PRESSURED TO 120 PSI FOR A MINIMUM OF ONE HOUR, AN INSPECTION REPORT SHALL BE SUBMITTED TO THE OWNERS PROJECT REPRESENTATIVE (OPR) PRIOR TO PAVING OF THE ROADS UNDER WHICH THESE LINES HAVE BEEN INSTALLED.

 6. UPON COMPLETION, ONE MANIPOLE SHALL BE TIED TO ONE OR MODE OF THE SANTA FE COUNTY'S PRANABENT SURVEY, MONUMENTS (OR OTHER VISITED PERMANENT FEATURES OR PIXTURES) AND SUBMITTED IN A TABLE FORMAT WITH THE ASBUILT RECORD DRAWINGS PROR TO FINAL ACCEPTANCE OF THE PARTIES OF THE SANTA AND DISTANCES BETWEEN MAINTIFES ALONG THE HORIZONTAL ALKOMEDY. SEVER INCLUDING CORRECTED ASBUILT BEARING, AND DISTANCES BETWEEN MAINTIFES ALONG THE HORIZONTAL ALKOMEDY. SEVER INCLUDING CORRECTED RIM AND NIVERT ELEVATIONS AND PIES LOPES. THE WORK SHALL BE PERFORMED BY A NEW MEXICO LICENSED SUBVEYOR.
- 7. GREEN CARSONITE MARKERS WITH SFCU I.D. STICKERS ARE REQUIRED ON ALL MANHOLES AND APPURTENANCES, AND EVERY 200 FEET ALONG PIPELINES
- 8. WHENEVER SHOWN, LOW PRESSURE SERVICE SANITARY SEWER (LPSAS) LINES SHALL BE PVC SDR 21 PVC SDR 11 HDPE, INSTALLED UNDER A MINIMUM 48-INCH COVER. HIGHER PRESSURE LINES OR FORCE MAINS SHALL BE PVC C-900 CLASS 100 WPR, UNLESS OTHERWISE SPECIFIED IN THESE DRAWINGS.
- 9. WHEREVER DRAWINGS SHOW A LOW PRESSURE LINE AT A FLUSHING STATION, CONTRACTOR SHALL REFER TO THE MULTI-LINE FLUSHING STATION DETAIL.
- 10. LOCATE WIRES SHALL BE INSTALLED FOR ALL SANITARY SEWER LINES (GRAVITY AND LOW PRESSURE). THE LOCATE WIRE MUST BE VISIBLE IN ALL MANHOLES OR ACCESS STRUCTURE. THIS WILL BE VERIFIED DURING THE PRELIMINARY MANHOLE INSPECTION PRIOR TO PAVING. THE LOCATE WIRE SHALLES OF THE LOCATE WIRE SHALLE SOLD STRAND INSULATED COPPURES. PURE SHALL FOLLOW THE SPECIES OF THE LOCATE WIRE SHALL FOLLOW THE SPECIFICATIONS IN THE SANTA FE COUNTY UTILITY DEPARTMENTS CONSTRUCTION STANDARDS AND SPECIFICATIONS MANUAL.
- 11. ALL MANHOLES AND FLUSHING STATIONS SHALL BE MADE A MINIMUM OF 4-FOOT DIAMETER PFE-CAST CONCRETE CYLINDER PIPE SEGMENTS, UNLESS OTHERWISE INDICATED IN THESE DRAWINGS. MANHOLE BOTTOM AND TOP SLABS MAY BE EITHER PRE-CAST OR CAST IN PLACE CONCRETE.
- 12. A MINIMUM OF ONE FOOT CLEARANCE SHALL BE ALLOWED BETWEEN THE TOP OF A SANITARY SEWER LINE AND THE THE BOTTOM OF ANY STORM SEWER PIPE OR STRUCTURE.
- 13. GRINDER PUMPS FOR LOW PRESSURE SEWER SERVICES SHALL BE THE RESPONSIBILITY OF THE INDIVIDUAL LOT OWNER/USER AND SHALL BE PRE-APPROVED BY SFCU IN WRITING.
- 14. ALL SANITARY SEWER LINES SHALL BE INSTALLED IN THEIR OWN TRENCH, WITH NO OTHER UTILITIES TO SHARE THIS TRENCH, BURIED UNDER A MINIMUM 48 INCHES OF COMPACTED BACKFILL.
- 15. EXISTING SANITARY SEWER LINES MUST BE VIDEO-INSPECTED PRIOR TO A NEW SERVICE CONNECTION BEING PLACED AS WELL AS RE-VIDEOED AFTER THE SERVICES HAVE BEEN COMPLETED. THIS IS TO ENSURE THAT THE EXISTING SANITARY SEWER LINE HAS NOT BEEN DAMAGED AND THE NEW SERVICE IS INSTALLED CORRECTLY.
- GRAVITY SEWER LINES, UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR SPECIFICALLY DELETED BY THE ENGINEER, IN WRITING, SHALL BE TESTED FOR LEAKAGE. PLEASE REFER TO SPECIFICATIONS (SECTION 901-7, NMAPWA).
- NO DISCHARGE INTO THE SANITARY SEWER SHALL BE ALLOWED UNTIL WRITTEN NOTIFICATION BY THE COUNTY WATER UTILITIES
 THAT DISCHARGE IS ACCEPTABLE.
- 18. THE OWNER/DEVELOPER WILL BE RESPONSIBLE FOR MAINTAINING REPAIFING AND LOCATING THE SEWER SYSTEM UNTIL SANTA FE COUNTY UTILITIES ACCEPTANCE FOR PERMANENT OPERATIONS AND MAINTENANCE DAMAGE RESULTING FROM A STOPPAGE IN ANY GRAVITY AND OR PRESSURE SEVER SYSTEM WILL BE THE SOLE RESPONSIBILTY OF THE OWNER/DEVELOPER UNTIL A FINAL ACCEPTANCE LETTER FOR PERMANENT OPERATIONS AND MAINTENANCE HAS BEEN ISSUED BY SANTA FE COUNTY UTILITY.
- 19. ADDITIONAL GENERAL NOTES ARE CONTAINED IN THE STANDARD COUNTY DETAIL SHEETS FOR SANITARY SEWER CONSTRUCTION.
- 20. WATER METERS WILL NOT BE PLACED UNTIL A FINAL ACCEPTANCE LETTER HAS BEEN ISSUED FOR ALL SANITARY SEWER NEEDED IN ORDER FOR THIS PROJECT TO CONNECT TO THE SANITARY SEWER SYSTEM.
- 21. SEWER BACKFLOW CHECK VALVES WILL BE REQUIRED FOR ALL SEWER SERVICE LATERAL CONNECTIONS TO SEWER MAINS 12" OR GREATER IN DIAMETER, OR WHEN A FACILITY OR RESIDENCE IS LOWER THAN THE NEAREST MANHOLES OR ROAD.
- 22. 20 FOOT WIDE ACCESS GATES SHALL BE PROVIDED AT ALL FENCES, WALLS OR OTHER OBSTRUCTIONS THAT CROSS A PUBLIC SEWER OR WATER LINE.
 ACCESS GATES TO BE LOCATED WITHIN THE SANITARY SEWER OR UTILITY EASEMENT.

RECLAIMED WATER/EFFLUENT IRRIGATION CONSTRUCTION

- 1. WHERE INSTALLED ALL RECLAIMED WATER LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE NEW MEXICO STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION, THE APPLICABLE AWWA STANDARDS, APPLICABLE REQUIREMENTS OF COUNTY WATER UTILITIES OR THE RECOMMENDATION OF THE PIPE MANUFACTURES. SHOULD THERE BE ANY CONFLICT AMOND THESE DOCUMENTS, THE LATTER SHALL PREVAIL
- 3. ALL VALVES SHALL ALSO HAVE COLOR-CODED PURPLE HANDLES AND BE FULL-PORT BALL TYPE HDPE WITH THERMO-FUSED JOINTS, RINKER POLY-PIPE OAE. CAST IRON VALVE BOX LIDS SHALL BE ENGRAVED "NON-POTABLE".
- 4. FLUSHING HYDRANTS AND FIRE HYDRANTS OR HOSE BIBS CONNECTED TO RECLAIMED -WATER LINES SHALL ALSO BE PAINTED PURPLE AND BARE A SIGN PROMINENTLY PLACED NEXT TO THEM WITH THE FOLLOWING TEXT: "NON POTABLE WATER DO NOT DRINK/PELIGRO AGUA NO ES PARA BEBER."
- 5. SERVICE CONNECTIONS SHALL BE 1 INCH, CONSISTENTLY COLOR CODED. THESE SHALL BE THERMO-FUSED WHEN INSTALLED ONTO HDPE PIPES. SERVICE CONNECTIONS ON PVC PIPE SHALL BE MADE WITH THE APPROPRIATE TESS, REDUCERS, VALVES, VALVES, VALVE BOXES ETC. INDIVIDUAL SERVICE CONNECTIONS SHALL BE METERES HALL BE EMPTINE MACHINADIO TRANSMITTERS, OR CURRENT MAKE AMODEL REQUIRED BY SFC UTILITY.
- 6. RECLAIMED WATER/EFFLUENT IRRIGATION LINES SHALL NEVER BE CONNECTED TO THE POTABLE DOMESTIC SUPPLY SYSTEM.
- ALL RECLAIMED WATER LINES SHALL BE INSTALLED IN THEIR OWN TRENCH, WITH NO OTHER UTILITIES SHARING THIS TRENCH, BURIED UNDER MINIMUM 48 INCHES OF COMPACTED BACKFILL.
- 8. LOCATE WIRES SHALL BE INSTALLED FOR ALL RECLAIMED WATER LINES. THE LOCATE WIRE MUST BE VISIBLE IN ALL MANHOLES OR ACCESS STRUCTURES. THIS WILL BE VERIFIED DURING THE PRELIMINARY INSPECTION PRIOR TO PAVING. THE LOCATE WIRE SHALL BE A CONTINUOUS 10 GAUGE, SOLID STRAND INSULATED COPPER WIRE. SPLICES OF THE LOCATE WIRE SHALL FOLLOW THE SPECIFICATIONS IN THE SANTA FE CCUNTY UTILITIES CONSTRUCTION STANDARDS AND SPECIFICATIONS MANUAL.

9. PURPLE CARSONITE MARKERS WITH I.D. STICKERS ARE REQUIRED ON ALL VALVES AND APPURTENANCES, AND EVERY

DRY UTILITIES

- 1. SHADING AND BEDDING MATERIAL SHALL BE TYPE IV. CLASS 1 FOR DIRECT BURY CABLE, AND TYPE IV. CLASS 2 FOR CABLE IN CONDUIT. TYPE 111 MATERIAL SHALL BE CONSIDERED SUITABLE FOR EITHER TYPE OF INSTALLATION.
- 2. IF TRENCH-RUN MATERIAL MEETS BACKFILL MATERIAL REQUIREMENTS, 3-INCH BEDDING MAY BE OMITTED, PROVIDED THAT THE TRENCH BOTTOM IS SMOOTH, FLAT. AND WITHOUT SURFACE IRREGULARITIES.
- 3. SEPARATION BETWEEN JACKETED PRIMARY AND COMMUNICATION CABLES SHALL BE AT LEAST 12 INCHES.
- 4. WARNING TAPE SHALL BE PLACED A MINIMUM 12 INCHES ABOVE THE UPPER LEVEL OF UTILITIES AT THE CENTER OF
- 5. DRY UTILITY REQUIREMENTS SPECIFIED BY THE RESPECTIVE UTILITY SHALL BE FOLLOWED.

ENVIRONMENTAL EROSION AND SEDIMENT CONTROL REQUIREMENTS

- 1. THE CONTRACTOR SHALL SUBMIT TO THE PROJECT MANAGER AND OR OPR A SWPP PLAN THAT COMPLIES WITH THE 2012 CONSTRUCTION GENERAL PERMIT AND SUBSEQUENT REVISIONS.
- 2. AT A MINIMUM, ALL AREAS DENUDED AND/OR DISTURBED BY CONSTRUCTION TRAFFIC SHALL BE SPRAYED WITH WATER ON A DAILY BASIS TO CONTROL DUST GENERATION. ADDITIONAL WATER SHALL BE APPLIED ON WINDY DAYS AS NEEDED OR AS REQUIRED BY SANTA FE COUNTY.
- 3. AS SOON AS FINAL GRADES ARE ACHEVED, AND PROPER CLMATIC CONDITIONS PREVAIL, NATIVE GRASS SEEDS SHALL BE APPLIED. CONTRACTOR SHALL PERFORM THIS ACTIVITY IN CONFORMANCE WITH THE APPROVED TERRAN MANAGEMENT PLAN FOR SEED MIX DETAILS, AS WELL AS APPLICATION AND CARE METHODOLOGY.
- 4. GRAVEL BAGS AND OTHER EPA APPROVED DEVICES SHALL BE INSTALLED AROUND DROP INLET GRATES IMMEDIATELY AFTER THEIR INSTALLATION TO PREVENT SEDIMENT FROM ENTERING THE STORM WATER SYSTEM. SEDIMENT DEPOSITED AROUND GRAVEL BAGS AND OTHER PRA APPROVED DEVICES SHALL BE SWEPT AND REMOVED IMMEDIATELY UPON DEPOSITION.
- . SILT FENCES OR WADDLES MEETING EPA REQUIREMENTS FOR SEDIMENT CONTROL SHALL BE INSTALLED AT ALL SLOPES IN STRICT ACCORDANCE WITH SWPP PLAN.
- 6. CONTRACTOR SHALL DISPOSE OF ITEMS DESIGNATED FOR REMOVAL WITHOUT SALVAGE, WHICH ARE UNSUITABLE FOR USE AS CONSTRUCTION MATERIALS IN THIS PROJECT. DISPOSAL SHALL BE PERFORMED IN AN ENVIRONMENTALLY SOUND SITE, SECURED BY THE CONTRACTOR IN CLOSE COORDINATION WITH THE APPROPRIATE REGULATORY AGENCIES. CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER AND OR OPR, IN WRITING, OF ANY RELEVANT DETAILS IN CONNECTION WITH THE DISPOSAL OPERATIONS.
- 7. BORROW MATERIAL, CONSTRUCTION WASTE, VEGETATIVE DEBIIS, ETC SHALL NOT BE PLACED IN WETLAND AREAS ARROYOS, OR ANY AREAS ENDANGERED SPECIES, OR HABITAT RESOURCES MAY BE AFFECTED. BORROW AREAS NOT CONTIGUOUS TO THE PROJECT SITE SHALL BE SHOWN IN THE SWPPP.
- 8. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP SPILLS ASSOCIATED WITH THE PROJECT'S CONSTRUCTION CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP SPILLS ASSOCIATED WITH THE PROJECT'S CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL REPORT AND PROPERLY RESPOND TO SPILLS OF HAZARDOUS MATERIALS SUCH AS GASOLINE, DIESEL, MOTOR OIL, SOLVENTS, TOXIC AND CORROSIVE SUBSTANCES, AND OTHER MATERIALS WHICH MAY REPRESENT A THREAT TO THE HEALTH AND WELFARE OF HIS WORKERS, THE GENERAL PUBLIC, OR THE MYROMMENT, CONTRACTOR SHALL REPORT EVIDENCE OF PAST SPILLS ENCOUNTERED DURING CONSTRUCTION, OR PRESENT SPILLS NOT ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT. REPORTS SHALL BE MADE IMMEDIATELY TO THE THE PROJECT MANAGER AND OR OPR AND THE APPROPRIATE STATE AGENCY RESPONSIBLE FOR THE EMERGENCY RESPONSE. CLEAN UP OF ANY UNREPORTED SPILLS THAT MAY HAVE OCCURRED DURING THE CONSTRUCTION OF THIS PROJECT, IDENTIFIED AFTERWARDS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- ATTENVANUS STRUCTOR THE VICINITY OF EXISTING STREAMS, WATER IMPOUNDMENTS, WETLANDS OR IRRIGATION WATER SOURCES SHALL BE PERFORMED IN SUCH A MANNER AS TO MINIMIZE VECETATION DAMAGE OR REMOVAL. AS WELL AS ANY SOIL EROSION, CONSTRUCTION EQUIPMENTS GROSSINGS OF EXISTING STREAMS, WHETHER THE STREAMS ARE PHEMERAL OR PERENNAL SHALL BE MINIMIZED, AND IN COMPLIANCE WITH THE CLEAN WATER ACT (CWA), USACE 404, OR OTHER FEDERAL PERMIT REQUIREMENTS.
- 10. ALL WORK PERFORMED IN A FLOOD PLAIN SHALL COMPLY WITH THE SANTA FE COUNTY FLOOD PLAIN ORDINANCE.

TERRAIN MANAGEMENT AND RE-VEGETATION WORK REQUIREMENTS

- . ALL AREAS DISTURBED BY THE CONSTRUCTION ACTIVITIES OF THIS PROJECT, INCLUDING ANY TEMPORARY ACCESS ROAD, SHALL BE RE-CRADED TO THEIR ORIGINAL CONTOURS, AND RE-SEEDED IN ACCORDANCE WITH THE FOLLOWING PLAN AFTER COMPLETION OF THE CONSTRUCTION OF PROTECTIONS.
- COMPLETION OF THE CONSTRUCTION OPERATIONS.

 2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUCCESSFUL RECOVERY OF DISTURBED AREAS FOLLOWING RE-VEGETATION THROUGH THE FIRST GROWING SEASON AFTER COMPLETION OF THIS PROJECT. IN THE EVENT THAT THE REVEGETATION PLAN CANNOT BE ACCOMPLISHED BEFORE SEPTEMBER 1 DUE TO CONSTRUCTION DELAYS, AND DISTURBED SHECKES MUST REMAIN EXPOSED AFTER THIS DATE, THE CONTRACTOR SHALL INSTALL TEMPORARY PROTECTION SUCH AS A COVER CROP OR A MULCHTO PREVENT SOIL EROSION, AT NO ADDITIONAL COST TO THE OWNER. A TEMPORARY CONSTRUCTION FENCE SHALL BE MAINT. AROUND THE DISTURBED AREA UNTIL THE NEW VEGETATION IS ESTABLISHED.
- AROUND THE DISTURBED AREA UNTIL THE NEW VECETATION IS ESTABLISHED.

 3. AREAS WITH A SLOPE LESS THAN 4; SHALL BE TREATED WITH DRILL SEEDING, WHILE SLOPES EXCEEDING 4:1 SHALL BE TREATED WITH BROADCAST OR HYDRO SEEDING AND SHALL INCLUDE HAND-RAKING OR CHAN-HARROWING TO COVER SEED TO A DEPTH OF 1/4-NCH TO 1/2-INCH. SLOPES EXCEEDING 3:1 SHALL BE TREATED WITH THE EROSIN BLANKET, MEETING NIMBOT CLASS D SPECIFICATIONS AND IN COMPLIANCE WITH THE ERAS (CONSTRUCTION GENERAL PERMIT) FOR FINAL STABLIZATION.

 ALL TOP SOIL WHICH MUST BE REMOVED OR DISTURBED DURING CONSTRUCTION SHALL BE SAVED AND STOCKPILED AT A LOCATION DESIGNATED BY THE OPR. ANY DISTURBED AREA TO BE SEEDED WHICH HAS LESS THAN 6 INCH TOTAL TOP SOIL DEPTH SHALL BE SUPPLEMENTED TO A 6 INCH DETTH WITH THE STOCKPILED MATERIAL.
- SUPPLEMENTED TO A 6 INCH DEPTH WITH THE STOCKPILED MATERIAL.

 4. THE SEED BED SHALL BE PREPARED TO A MINIMUM 4-INCH DEPTH BY TILLING WITH A DISC, HARROW, OR CHISELING TOOLS. ALL COMPETITIVE VEGETATION SHALL BE UPPROTED DURING THIS PREPARATION, AND THE SOIL SHALL BE UNIFORMLY WORKED TO A SMOOTH, FIRM SURFACE FREE OF CLODS, STONES OR OTHER EXTRANEOUS MATERIALS 4 INCH OR LARGER THAT WOULD INTERFERE WITH SEEDING EQUIPMENT AND GERMINATION. SEED BED PREPARATION BY MECHANICAL MEANS WILL NOT BE REQUIRED ON SLOPES IX SURFACICAL OR DIAGRAFIA. ALL RILLING SHALL BE PERFORMED ACKNOS "HE SLOPE WHEN PRACTICAL AND SHALL BE PERFORMED AND OR OPP. SEED BED PREPARATION ON THESE SLOPES IS IMPRACTICAL OR DURING SHALL BE PERFORMED ACKNOS "HE SLOPE WHEN PRACTICAL AND SHALL BE PERFORMED MATERIAL WILLIAMS SHALL BE PERFORMED AND OR OPP. SOFT ON THE STONE OF THE STO
- 6. BROADCAST SEEDING SHALL ONLY BE PERFORMED IN SLOPES EXCEEDING 3:1 OR IN AREAS INACCESSIBLE TO THE SEED DRILL. BROADCAST SEEDING SHALL BE PERFORMED WITH A ROTARY SPREADER OR A SEEDER BOX WITH GARF FEED MECHANISM IP ORILL SEEDING IS NOT PRACTICAL. RICE HULLS OR OTHER FILLERS SHALL BE USED TO PREVENT UNEVEN SEPARATION OF LICHTER SEED. SEED BED SHALL BE LICHTLY RAKED IMMEDIATELY FOLLOWING THE SEEDING OPERATION, O'D PROVIDE 3/HOLH SOLLOWER OVER OVER THE SEED.
- 7. MUICH SHALL BE PLACED OVER ALL SEEDED AREAS. THE MUICH SHALL BE MADE OF STRAW OR HAY, AN APPLIED TO PRODUCE A DEPTH OF 1-1/2-INCH TO 2-INCH. STRAW OR HAY WITH NOXIOUS SEEDS OR PLANTS, ROTTED, BRITTLE, SHORT FIBERED, OR IMPROPERLY CURED IS NOT ACCEPTABLE.
- 8. SEED MIX AND SEEDING RATE ARE AS FOLLOWS: DRYLAND BLEND



PROJECT DEVELOPED BY: Earth & Steel Design, LLC

NOTE: POUNDS PER ACRE OF SEED MIXTURE: 15-20 LBS IF DRILLED; 20-25 LBS. IF BROADCAST, SEED SHALL BE CERTIFIED NOXIOUS WEED FREE.



Revision/Issue Date

General Notes



General Notes

Santa Fe County Land Use ES 2024-116 05/14/2025

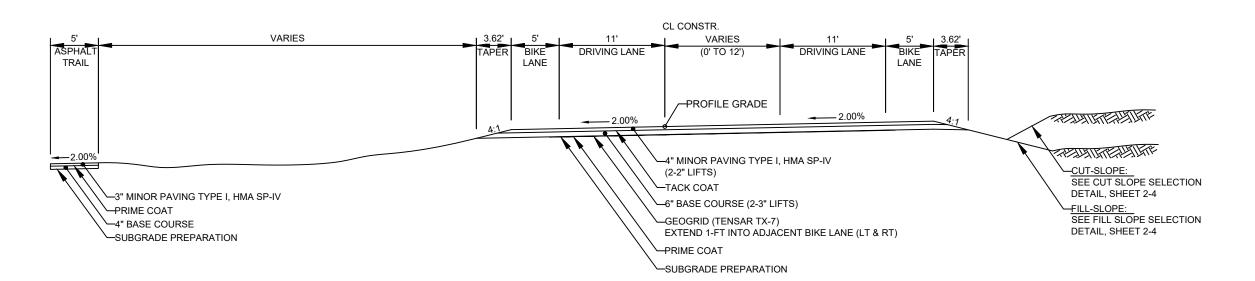
<u>Approved</u>

March 2025

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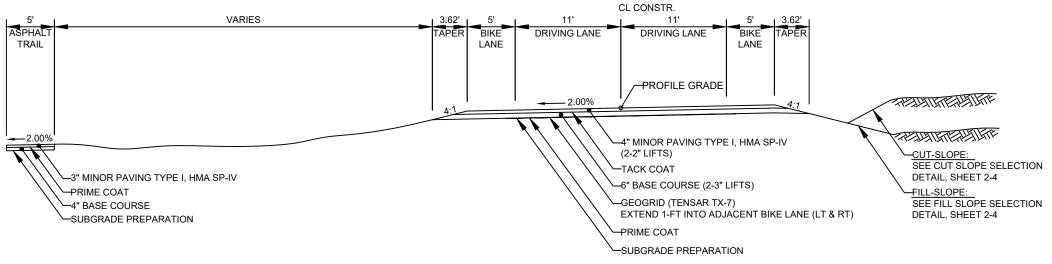
IVAN TRUJILLO

				General Notes
	ENVIRONMENTAL COMMITMENT	тѕ		
HIGHWAY A	ACTOR SHALL REFER TO SECTION 107 OF THE NMDOT STANDA ND BRIDGE CONSTRUCTION - 2019 EDITION, MAKING SPECIAL N OR'S RESPONSIBILITY FOR ENVIRONMENTAL AND CULTURAL F	NOTE OF <u>Sub-Section 107.14</u> :		
X	NO ADDITIONAL PROJECT SPECIFIC ENVIRONMENTAL REQUI	IREMENTS APPLY.		
	IN ADDITION TO SECTION 107, THE FOLLOWING PROJECT SP REQUIREMENTS APPLY:	PECIFIC ENVIRONMENTAL		
				No. Revision/Issue Date
				Earth & Steel DESIGN vww.earthandsteeldesign.com 505.470.5506 Civil and Structural Engineering Project and Construction Management
			PROFESS/ONAL	
			PROFESS/ONAL STATE OF THE 10874	Environmental Commitments
			MEXICO DENSION	Santa Fe County Land
			3/30/202	ES_2024-116 Doe 0 05/14/2025 March 2025
IVAN TRUJILLO Drawing File: C:\USERS\ITRUJILLO\DOCUMENTS\0_IPT WORKING\COLLEGE DRIVE\0_PLAN SHEETS\1-S 1:21 PM	SHEETS (GENERAL)\CADD\COLLEGE DR_ENVIRO COMMITMENTS.DWG	PROJECT DEVELOPED BY: Earth & Steel Design, LLC	5 DRAWING SCALE: NONE	Approved Byshestania T. Logo at



COLLEGE DRIVE - TYPICAL SECTION "B"

STA. 30+57.87 TO STA. 32+38.78 - TRANSITION TYP. SECT. "A" TO "B"



COLLEGE DRIVE - TYPICAL SECTION "A"

STA. 17+80.52 TO STA. 30+57.87 STA. 40+14.16 TO STA. 48+27.90



Typical Sections

General Notes

THE CONTRACTOR SHALL WARP SLOPES TO REMAIN

WITHIN THE RIGHT OF WAY

REQUIRED IS STEEPER THAN

2:1, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD FOR DIRECTION.

(ROW). IF THE SLOPE

Santa Fe Gounty Land Use

Fribet ES_2024-116

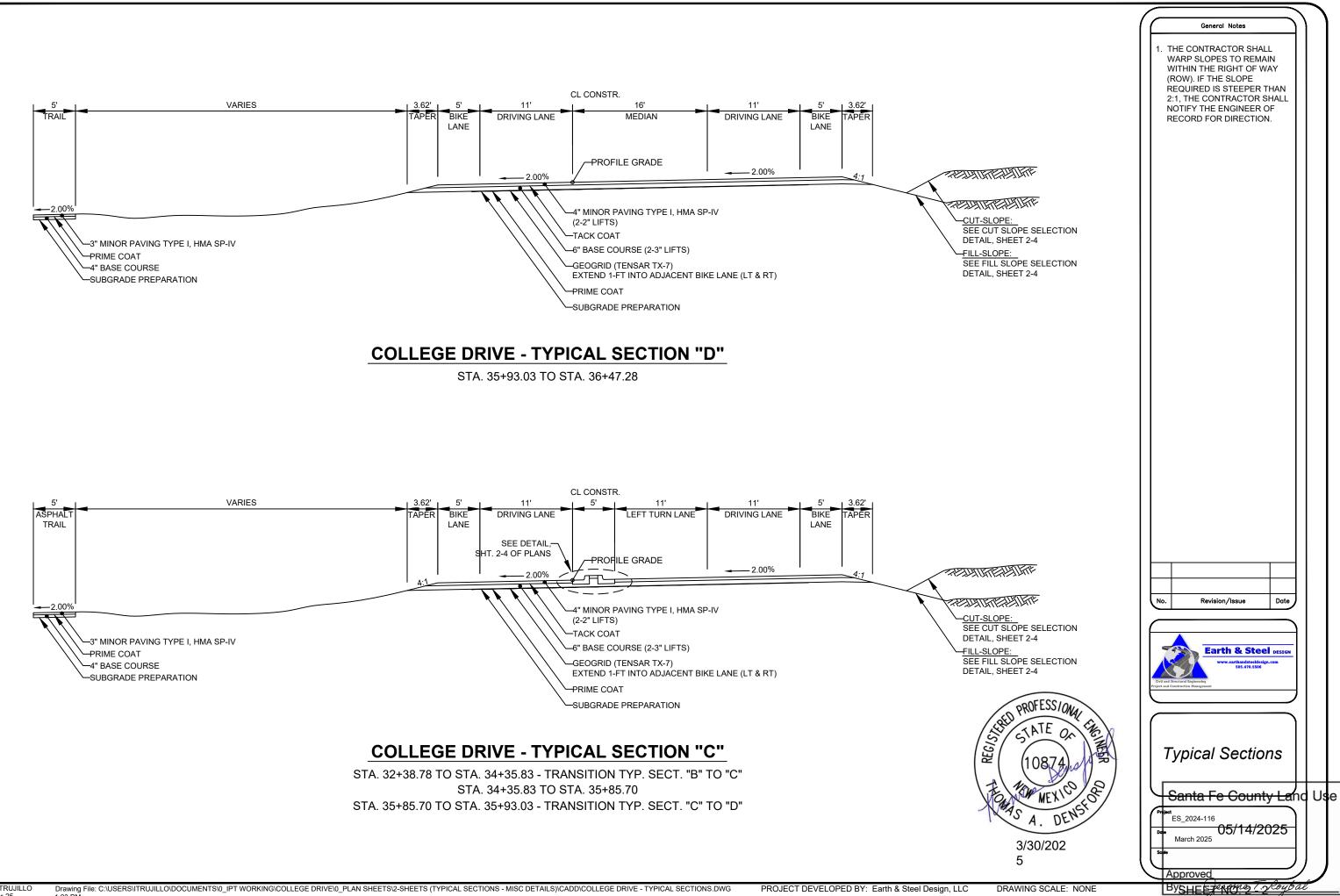
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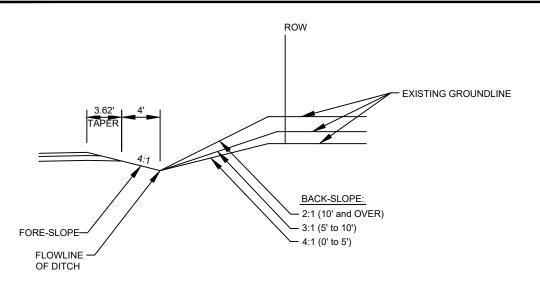
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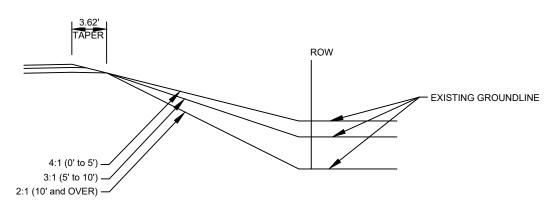
IVAN TRUJILLO 29-Mar-25



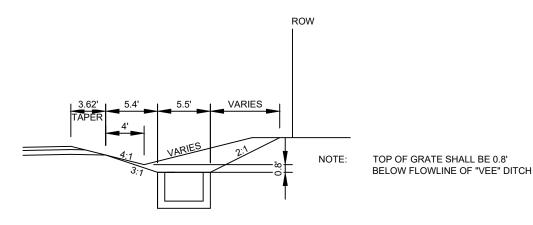
General Notes THE CONTRACTOR SHALL WARP SLOPES TO REMAIN WITHIN THE RIGHT OF WAY (ROW). IF THE SLOPE REQUIRED IS STEEPER THAN 2:1, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD FOR DIRECTION. CL CONSTR. **VARIES** 11' TRAIL RIGHT TURN LANE DRIVING LANE DRIVING LANE BIKE BIKE LANE LANE SEE DETAIL,-PROFILE GRADE . 2-4 OF PLANS _2.00% 72341KKE441KKE 4-14/14/14/14/14 -4" MINOR PAVING TYPE I, HMA SP-IV —<u>CUT-SLOPE:</u> SEE CUT SLOPE SELECTION DETAIL, SHEET 2-4 (2-2" LIFTS) Earth & Steel DESIGN -TACK COAT -3" MINOR PAVING TYPE I, HMA SP-IV -6" BASE COURSE (2-3" LIFTS) FILL-SLOPE: -PRIME COAT SEE FILL SLOPE SELECTION -GEOGRID (TENSAR TX-7) -4" BASE COURSE DETAIL, SHEET 2-4 EXTEND FULL WIDTH OF RT TURN LANE (LT) & 1-FT INTO ADJACENT BIKE LANE (RT) -SUBGRADE PREPARATION PRIME COAT -SUBGRADE PREPARATION Typical Sections **COLLEGE DRIVE - TYPICAL SECTION "E"** Santa Fe County Land Use STA. 36+47.28 TO STA. 38+10.03 STA. 38+10.03 TO STA. 40+14.46 - TRANSITION TYP. SECT. "E" TO "A" 05/14/2025 March 2025 3/30/2025 Approved Drawing File: C:\USERS\ITRUJILLO\DOCUMENTS\0_IPT WORKING\COLLEGE DRIVE\0_PLAN SHEETS\2-SHEETS (TYPICAL SECTIONS - MISC DETAILS)\CADD\COLLEGE DRIVE - TYPICAL SECTIONS.DWG 1:24 PM PROJECT DEVELOPED BY: Earth & Steel Design, LLC DRAWING SCALE: NONE BYSHE TENOMIS / 3 Roybal



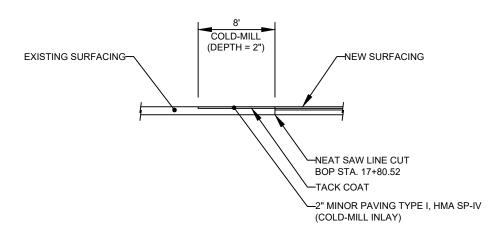
CUT SLOPE SELECTION DETAIL



FILL SLOPE SELECTION DETAIL

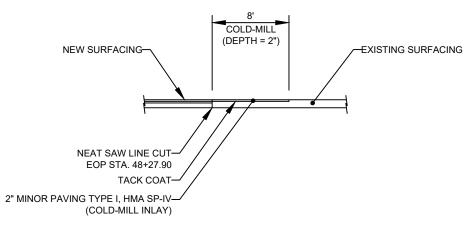


MEDIAN DROP INLET INSTALLATION DETAIL



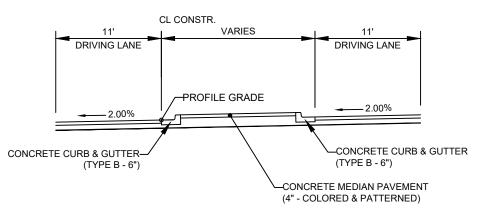
BOP CONNECTION DETAIL

STA. 17+80.52



EOP CONNECTION DETAIL

STA. 48+27.90



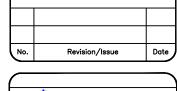
CURB & GUTTER / MEDIAN DETAIL

(NOTE: FOR CURB & GUTTER / MEDIAN GEOMETRY, SEE SHEETS 2-8 to 2-9 of PLANS)

1. THE CONTRACTOR SHALL WARP SLOPES TO REMAIN WITHIN THE RIGHT OF WAY (ROW). IF THE SLOPE REQUIRED IS STEEPER THAN 2:1, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD FOR DIRECTION.

General Notes

2. THE BOP AND EOP COLD-MILL CONNECTIONS WILL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE.





Miscellaneous Details

Santa Fe County Land Use

March 2025

Approved

Byshestarrang T. Akoupal

3/30/2025

						207	000		303160			4161	104	****	****	4070	000	4081	100		
SURFACING SCHEDULE					SUBGRADE PREPARATION BASE COURSE 6"			MINOR I	PAVING TY	PE I, HMA S	PG 76-28 ASPHALT MATERIAL	HYDRATED ASPHALT HYDRATED MATERIAL LIME FOR TACK COAT		PRIME COAT MATERIAL							
	STATION	то	STATION		DESCRIPTION	LENGTH (L.F.)	AVG. WIDTH (L.F.)	AREA (S.Y.)	AVG. WIDTH (L.F.)	DEPTH (IN.)	AREA (S.Y.)	AVG. WIDTH (L.F.)	DEPTH (IN.)	AREA (S.Y.)	TON	TON	TON	AVG. WIDTH (L.F.)	TON	AVG. WIDTH (L.F.)	TON
COLLEGE DRIVE																					
	17+80.52	-	48+27.90		COLLEGE DRIVE ROADWAY	3047.38	45.02	15,244	42.81	6.00	14,495	39.15	4.00	13,256.10	2,945.80	144.34	29.46	39.15	4.42	40.69	25.83
	17+80.52	-	48+27.90		COLLEGE DRIVE TRAIL	3135.00	5.00	1,742	5.00	4.00	1,742	5.00	3.00	1,741.67	290.28	14.22	2.90	5.00	0.58	5.00	3.27
						PROJECT TOTAL		16,985			16,237				3,236	159	32		5		29
						PROJECT USE		17,000			16,240				3,240				5		30

Earth & Steel DESIGN Surfacing Schedule Santa Fe County Land Use Approved BySHEETERMS T. 5 Royball

General Notes



STORM WATER POLLUTION PREVENTION PLAN INFORMATION

NOI INPUTS

NMDOT PROJECTS REQUIRE ELECTRONIC NOI SUBMISSION - PAPER SUBMISSION REQUIRES PRIOR APPROVAL. PERMIT NUMBER: NMR100000 STATE OF NEW MEXICO, EXCEPT INDIAN COUNTRY NMR101000 INDIAN COUNTRY WITHIN THE STATE OF NEW MEXICO, EXCEPT NAVAJO RESERVATION LANDS THAT ARE COVERED UNDER ARIZONA PERMIT AZ100001 AND UTE MOUNTAIN RESERVATION LANDS THAT ARE COVERED UNDER COLORADO PERMIT COR100001. OPERATOR NAME: COUNTY OF SANTA FE, NM POINT OF CONTACT: SANTA FE COUNTY PUBLIC WORKS DIRECTOR NOI PREPARED BY: SANTA FE COUNTY PUBLIC WORKS DIRECTOR PROJECT / SITE NAME: SANTA FE COUNTY PROJECT NUMBER PROJECT / SITE ADDRESS: COLLEGE DRIVE, SANTA FE, NM LATITUDE (XX.XXXX° N): 35.6079° N LONGITUDE (XXX.XXXX° W): 105.9947° W ESTIMATED PROJECT START DATE (MM/DD/YYYY): TO BE DETERMINED BY SF COUNTY PROJECT MANAGER ESTIMATED PROJECT COMPLETION DATE (MM/DD/YYYY): TO BE DETERMINED BY SF COUNTY PROJECT MANAGER ESTIMATED AREA TO BE DISTURBED (Nearest 1/4 acre): TYPE OF CONSTRUCTION: PAVED ROAD WITH MULTI-USE PATH WAS THE PRE-DEVELOPMENT LAND USE USED FOR AGRICULTURE? (YES/NO): NO HAVE EARTH-DISTURBING ACTIVITIES COMMENCED? (YES/NO): NO PREVIOUS NPDES PERMIT? IF YES, PROVIDE NPDES #: NO ARE THERE OTHER OPERATORS COVERED UNDER THIS PERMIT FOR THIS NO PROJECT? IF YES, PROVIDE NPDES # WILL THERE BE DEMOLITION OF ANY STRUCTURES, 10,000 SQUARE FEET OR NO GREATER, BUILT OR RENOVATED BEFORE JANUARY 1, 1980? (YES/NO): WILL SITE DISCHARGE DEWATERING WATER? (YES/NO) NO IF DEWATERING, IS IT FROM A CURRENT OR FORMER FEDERAL OR STATE NO REMEDIATION SITE? (YES/NO) MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4): NAME NONE ARE THERE SURFACE WATERS WITHIN 50 FT.? (YES/NO): NO RECEIVING WATER: ARROYO HONDO IMPAIRED WATERS: NONE IMPAIRED WATERS METHOD: CONSULTATION OF NEW MEXICO ENVIRONMENT DEPARTMENT LISTING OF STATEWIDE 303D AND TMDL **IMPAIRMENTS** TIER 2, TIER 2.5, TIER 3, WATERS: (CONSULT NMDOT DRAINAGE DESIGN BUREAU): TBD CHEMICAL TREATMENT INFORMATION: TYPICAL NMDOT PROJECT WILL NOT UTILIZE THESE CHEMICALS. SWPPP CONTACT INFORMATION: SANTA FE COUNTY PUBLIC WORKS DIRECTOR ENDANGERED SPECIES CRITERIA (A, B, C, D, E, or F): ? HISTORIC PRESERVATION: NONE. HISTORIC PROPERTIES WILL NOT BE IMPACTED. THE ENVIRONMENTAL COMMITMENTS WILL INDICATE EXISTENCE OF HISTORIC PROPERTIES. IF HISTORIC PROPERTIES EXIST, THE TESCP SHEETS CAN SHOW NO EFFECT ON HISTORIC PROPERTIES. ALL STORMWATER CONTROLS REQUIRE SUBSURFACE DISTURBANCE. CERTIFICATION: PER APPENDIX G, SECTION G.11 OF THE 2022 CGP, THE NOI MUST BE CERTIFIED BY A RESPONSIBLE CORPORATE OFFICER, OR

GENERAL NOTES:

- 1. THE MORE STRINGENT REQUIREMENT OF EITHER THE 2020 EDITION OF THE NMDOT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) MANUAL OR SECTION 603 - TEMPORARY EROSION AND SEDIMENT CONTROL OF THE 2019 NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION SHALL BE USED AS MINIMUM REQUIREMENTS TO DEVELOP OR MODIFY THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
- 2. INFORMATION NEEDED TO COMPLETE THE NOTICE OF INTENT (NOI) IS PROVIDED IN THIS PLAN.

A PRINCIPAL EXECUTIVE OFFICER, OR RANKING ELECTED OFFICIAL.

- 3. THE CONTRACTOR SHALL SPECIFICALLY DEFINE ALL REQUIRED CONTROL MEASURES FOR EACH CONSTRUCTION PHASE, AND SHALL COMPLY WITH THE PROVISIONS OF THE LATEST NPDES MANUAL AND THE 2022 CONSTRUCTION GENERAL PERMIT (CGP).
- 4. THE FINAL SEEDING AND REVEGETATION PLAN, ALONG WITH THE MEASURES SHOWN ON THE FINAL STABILIZATION TESCP SHEETS (IF INCLUDED) SERVE AS THE FINAL SOIL STABILIZATION MANAGEMENT

5. CLASS 'A' AND CLASS 'C' SEEDING SHOULD USE QUANTITIES SHOWN IN THE 2019 NMDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION. QUANTITIES SHOWN IN THE RUSLE2 CALCULATIONS ARE FOR PERMIT COMPLIANCE ONLY.



Revision/Issue Date Earth & Steel DE Storm Water Pollution Prevention Plan Santa Fe County Land Use

ES 2024-116

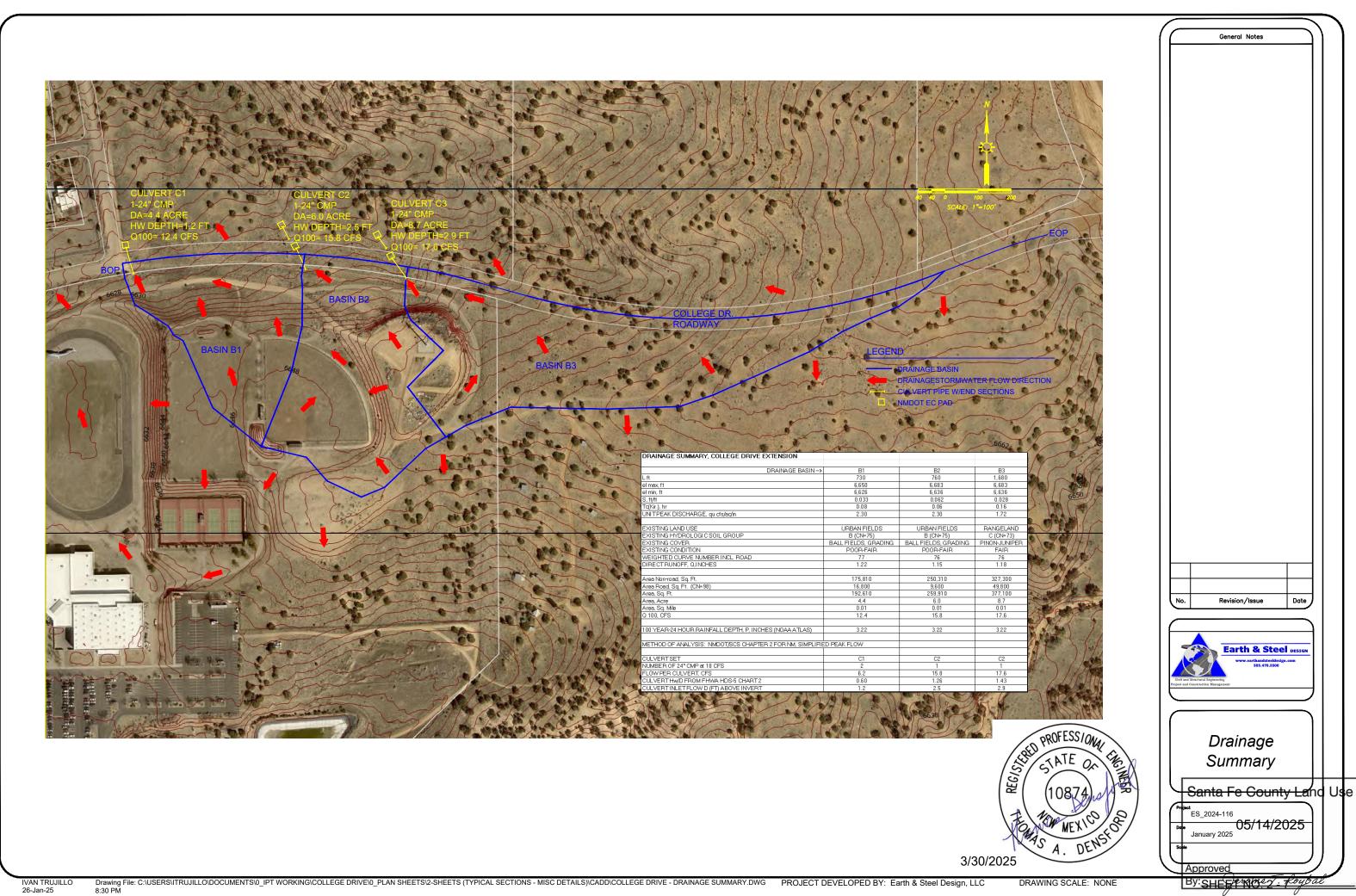
January 2025 05/14/2025

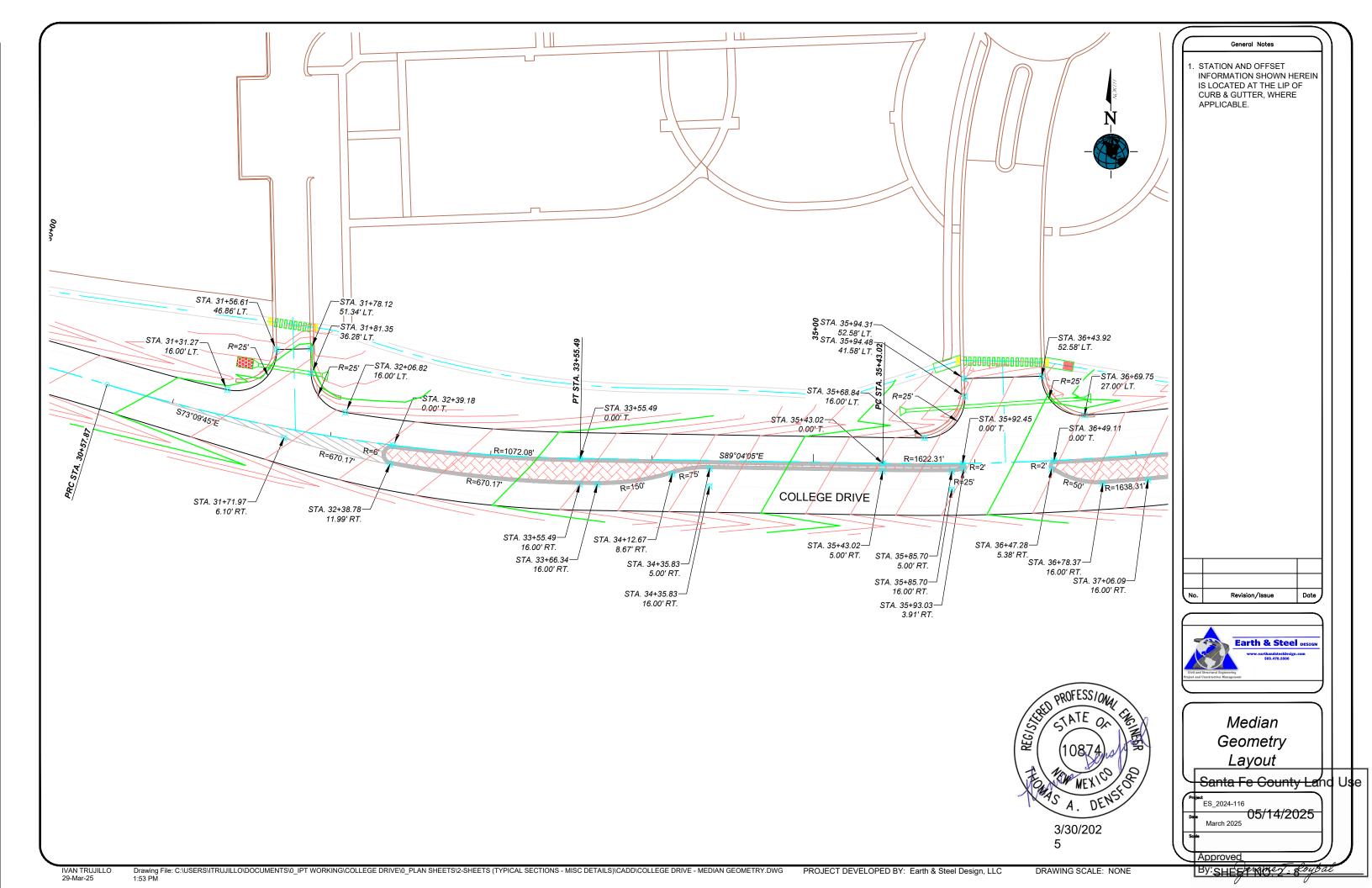
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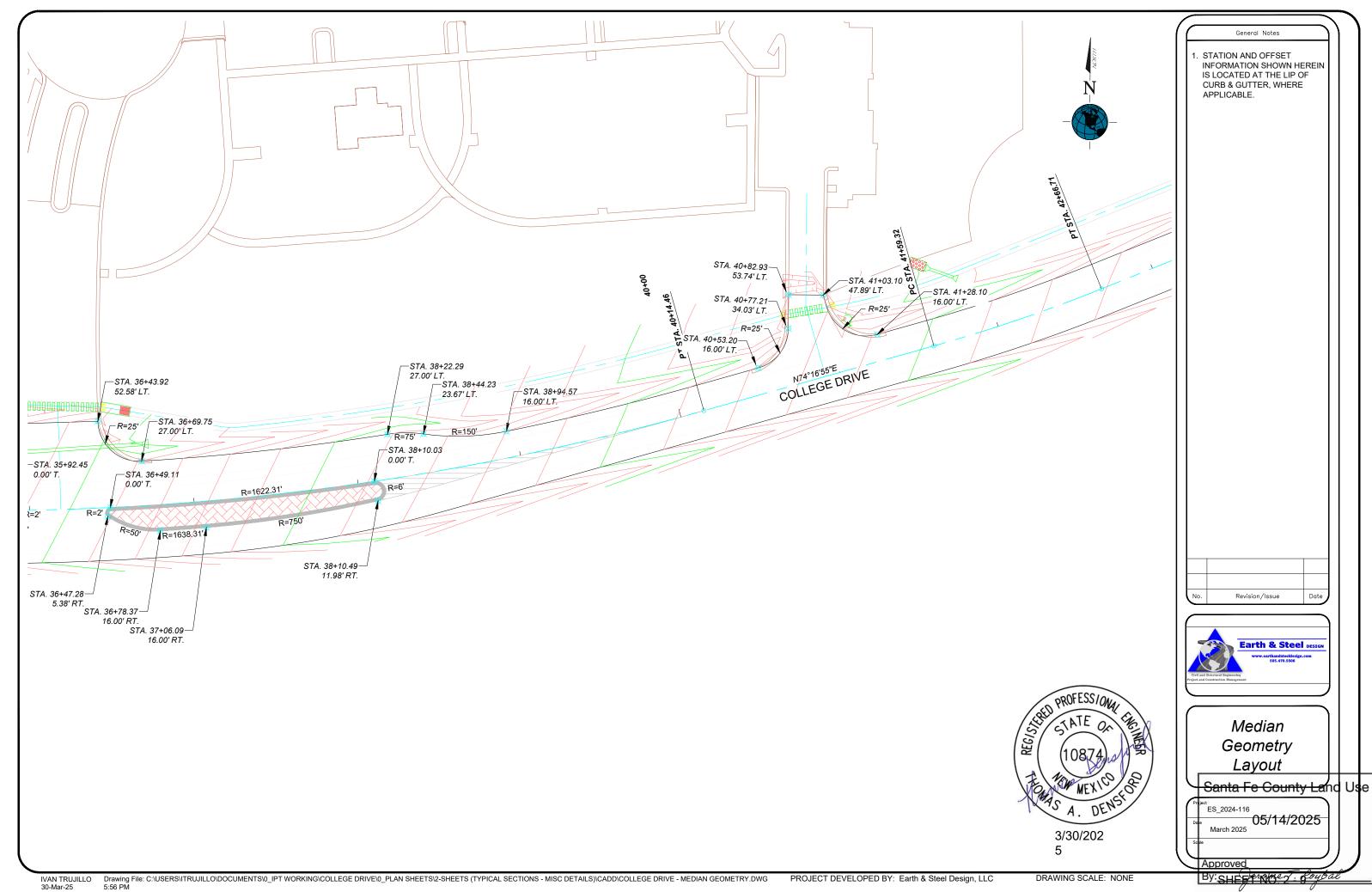
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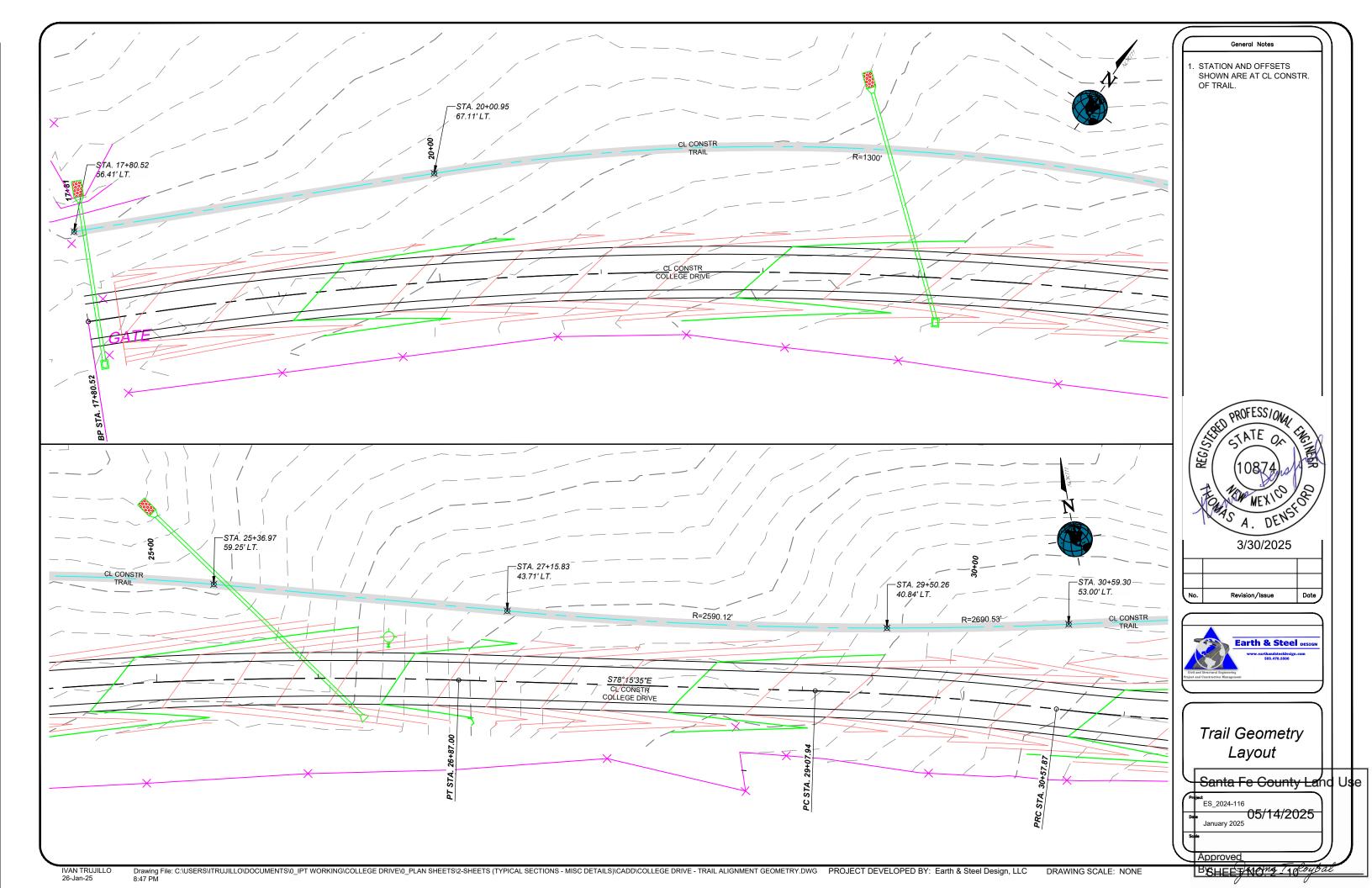
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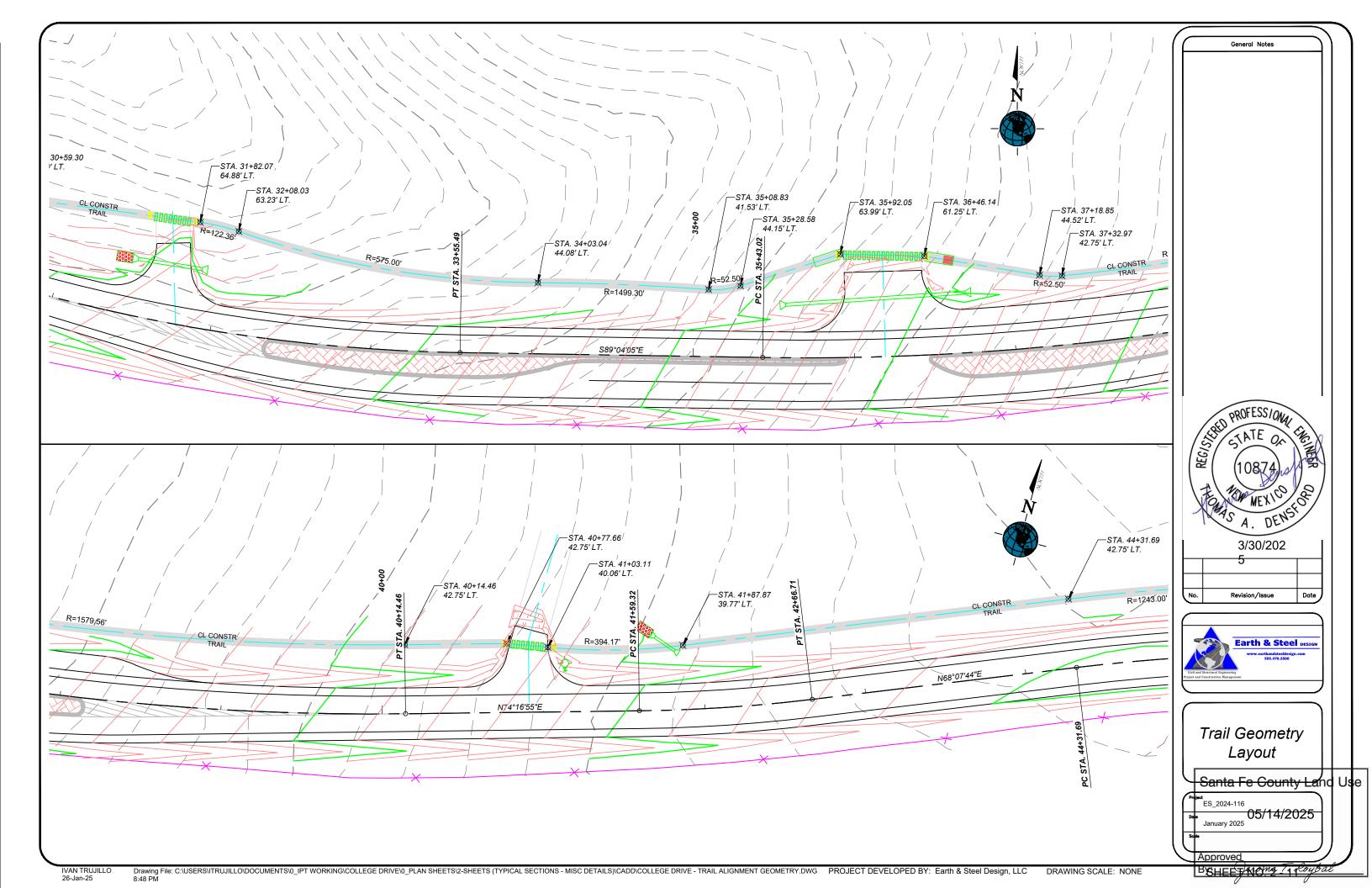
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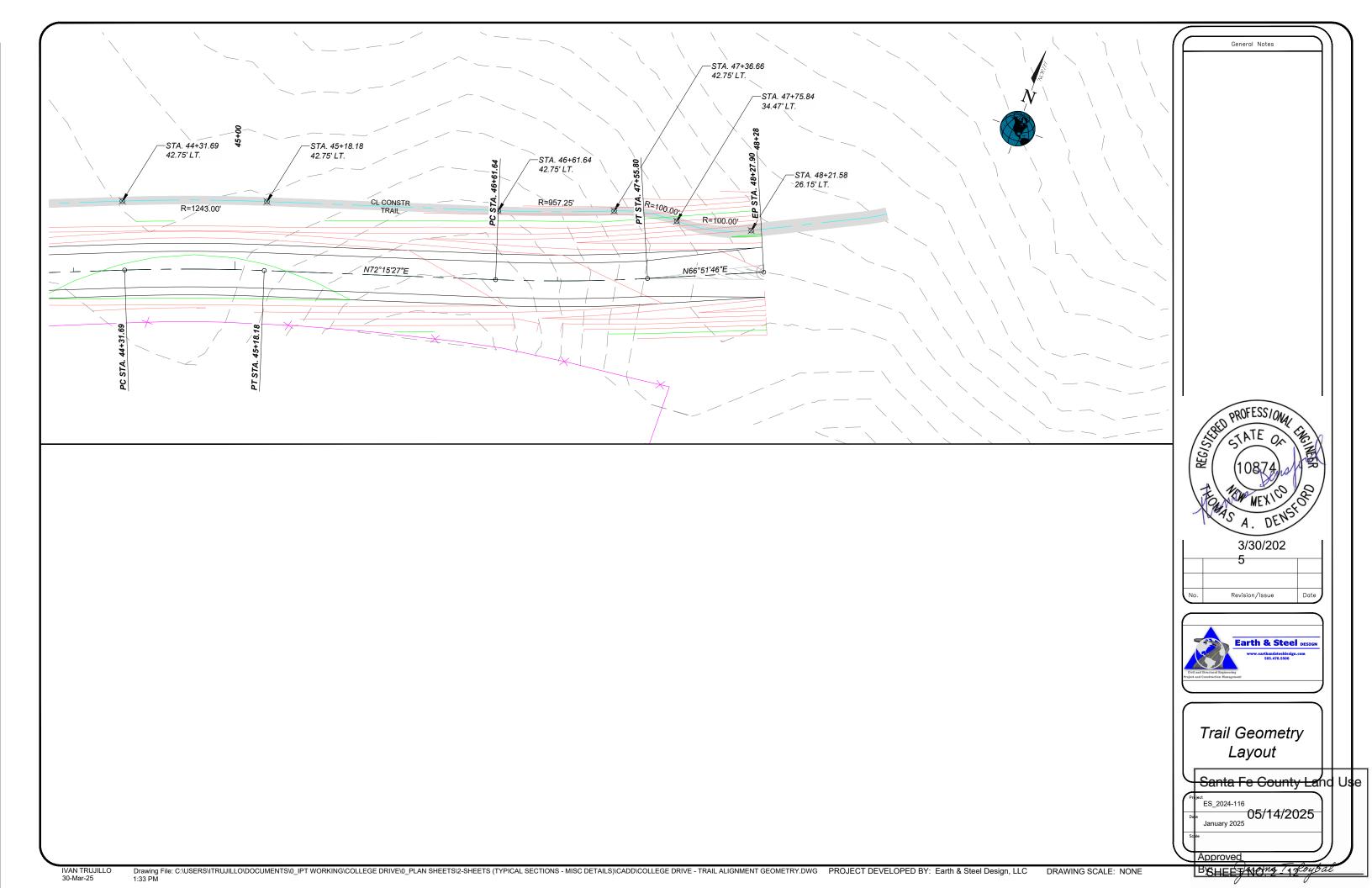


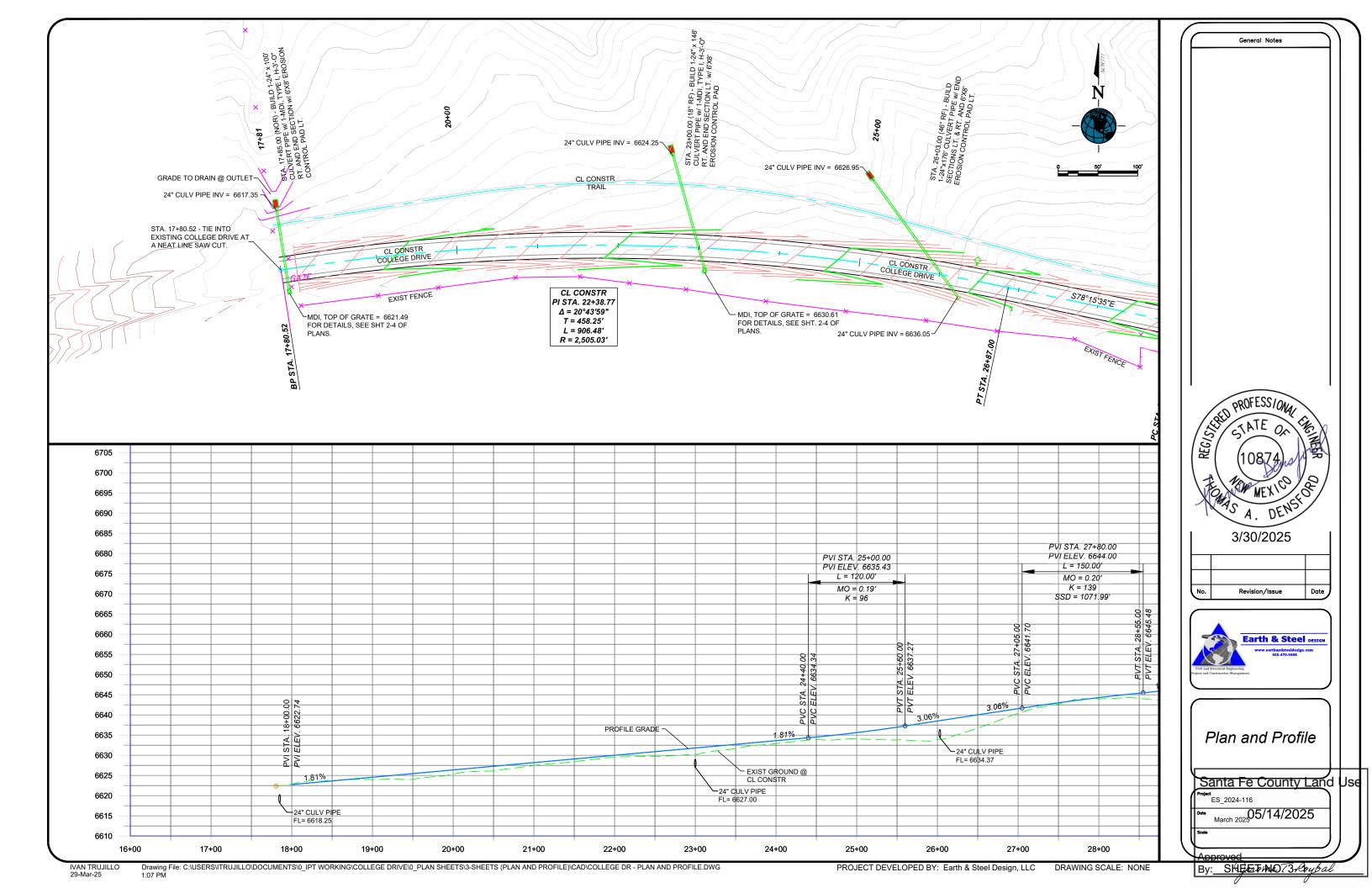


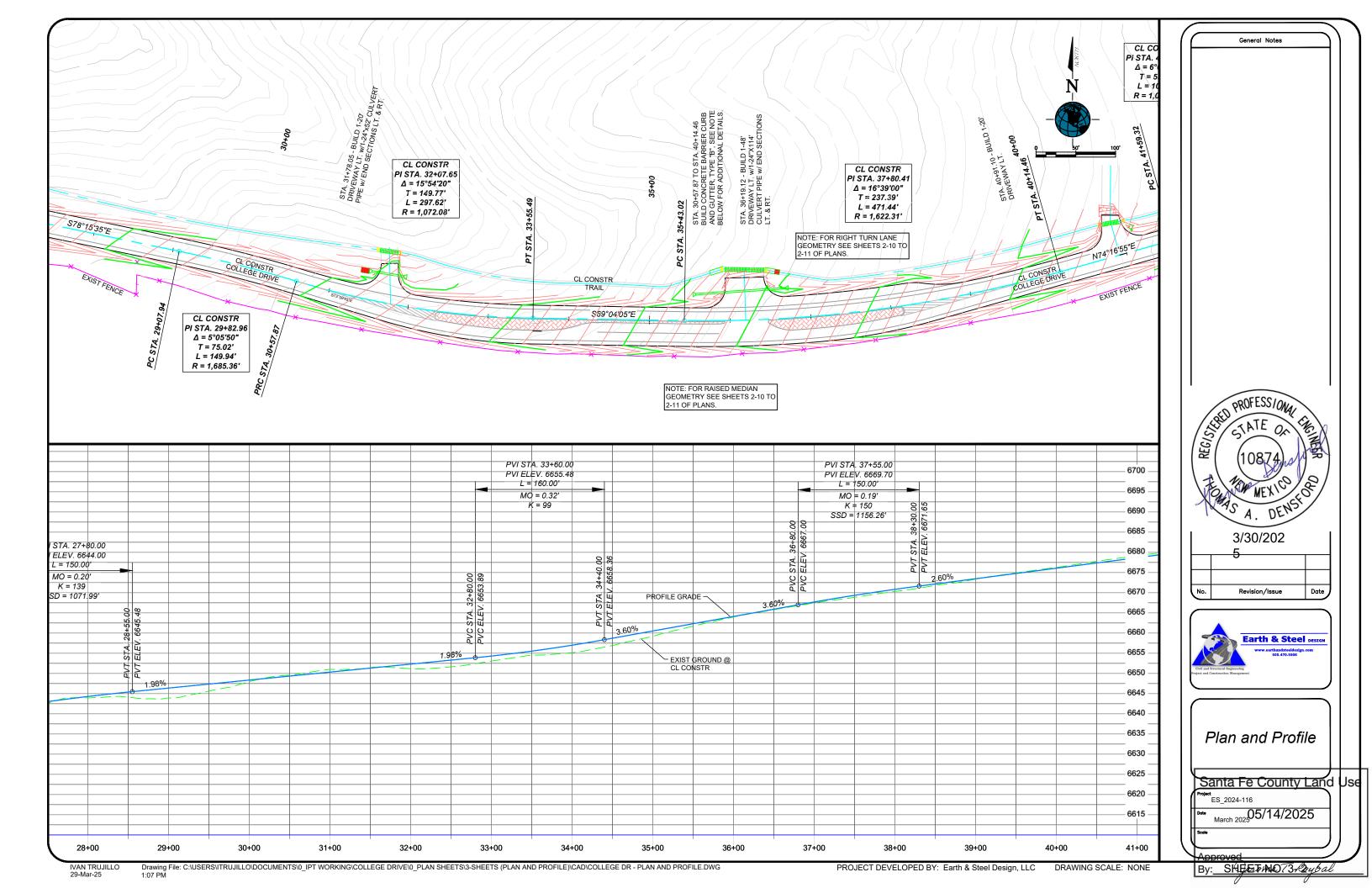


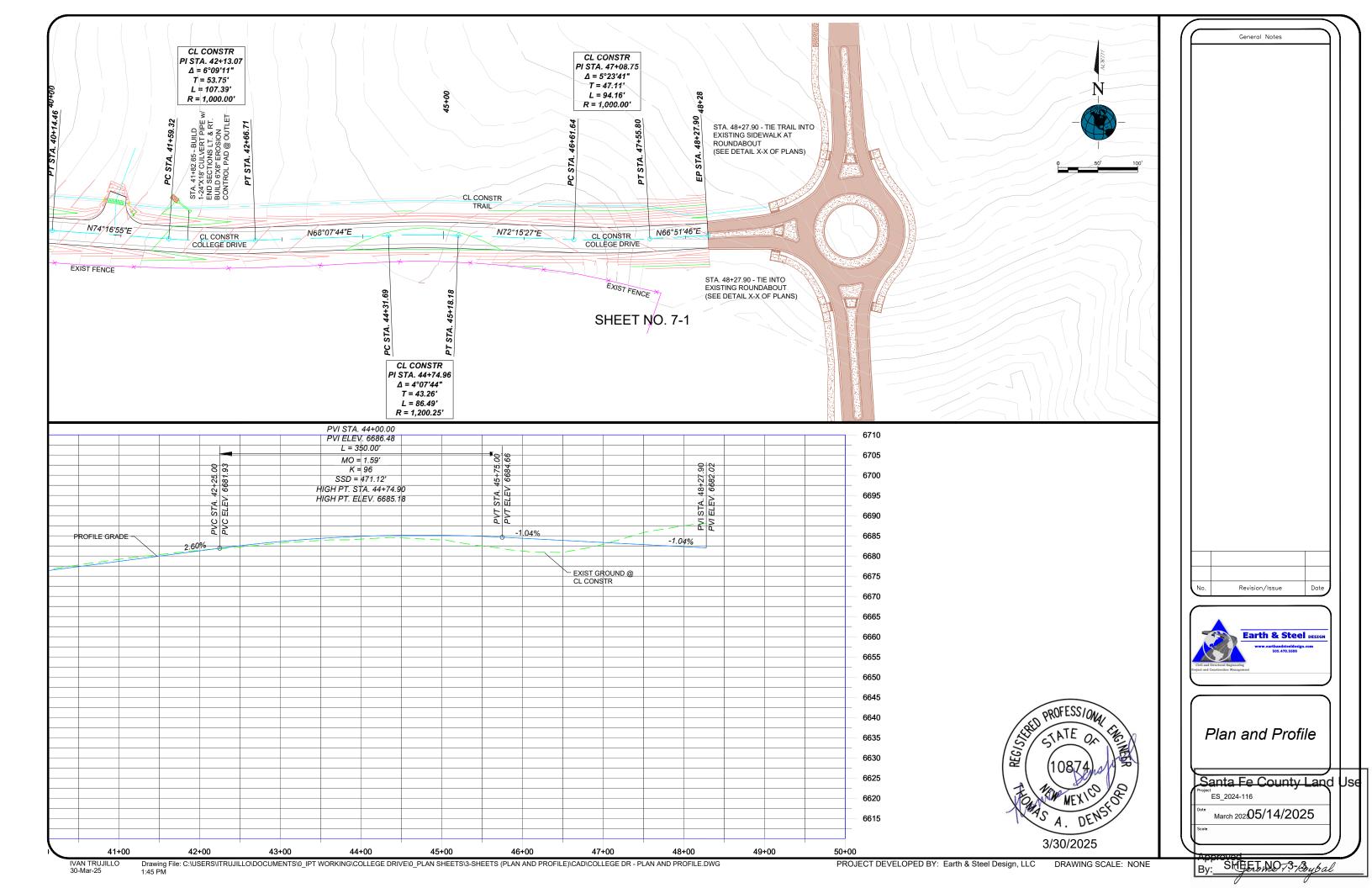






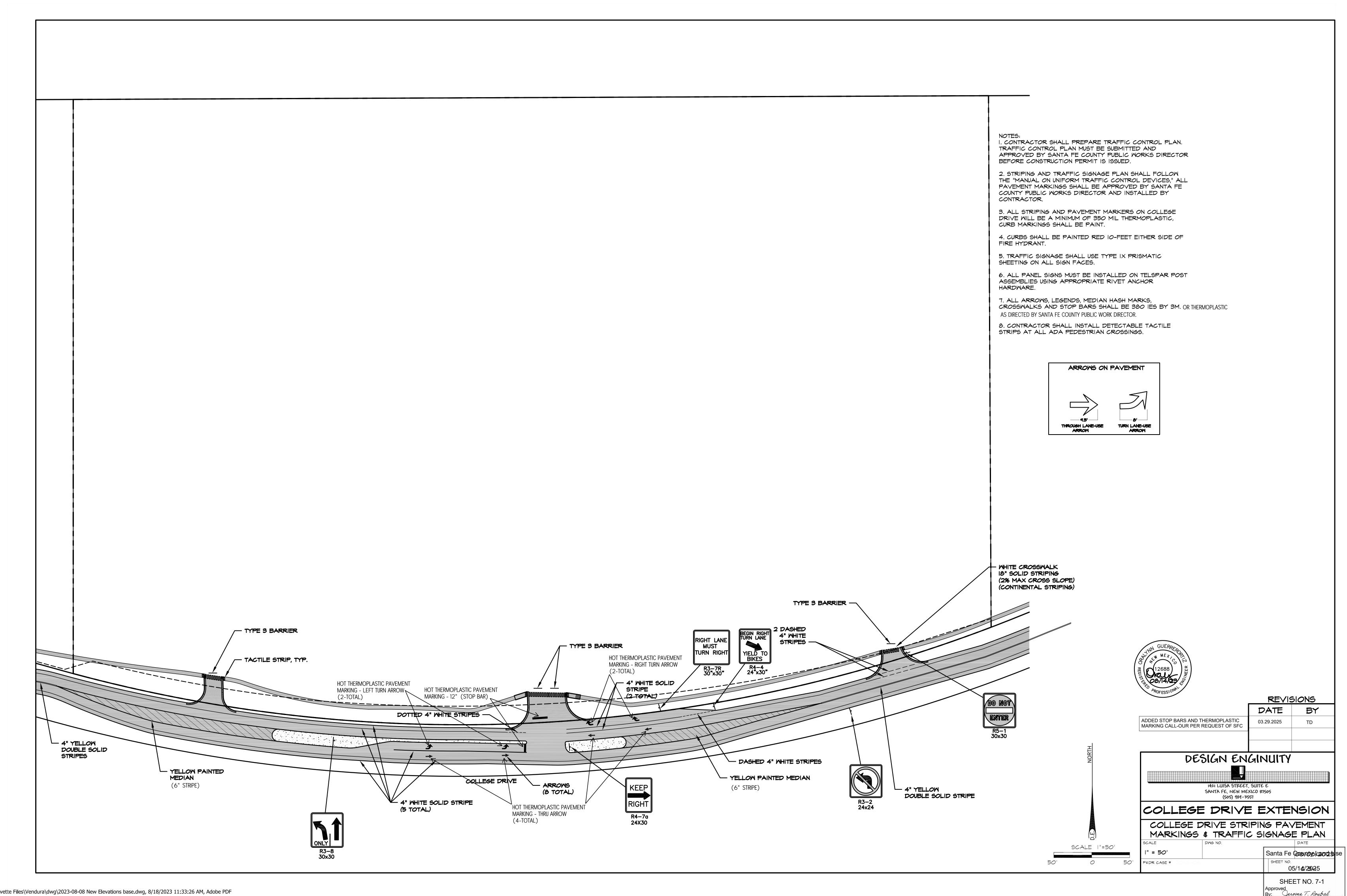


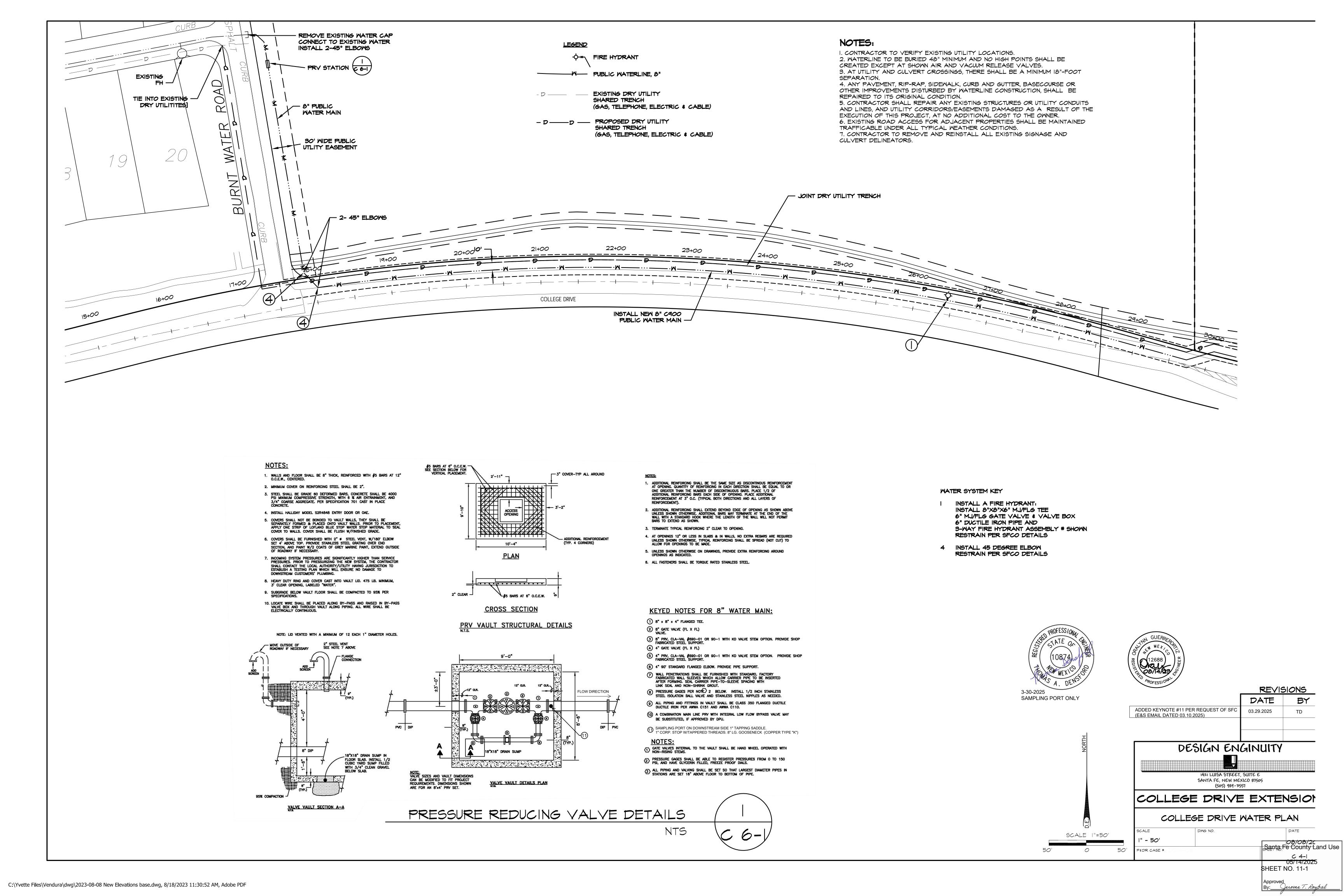


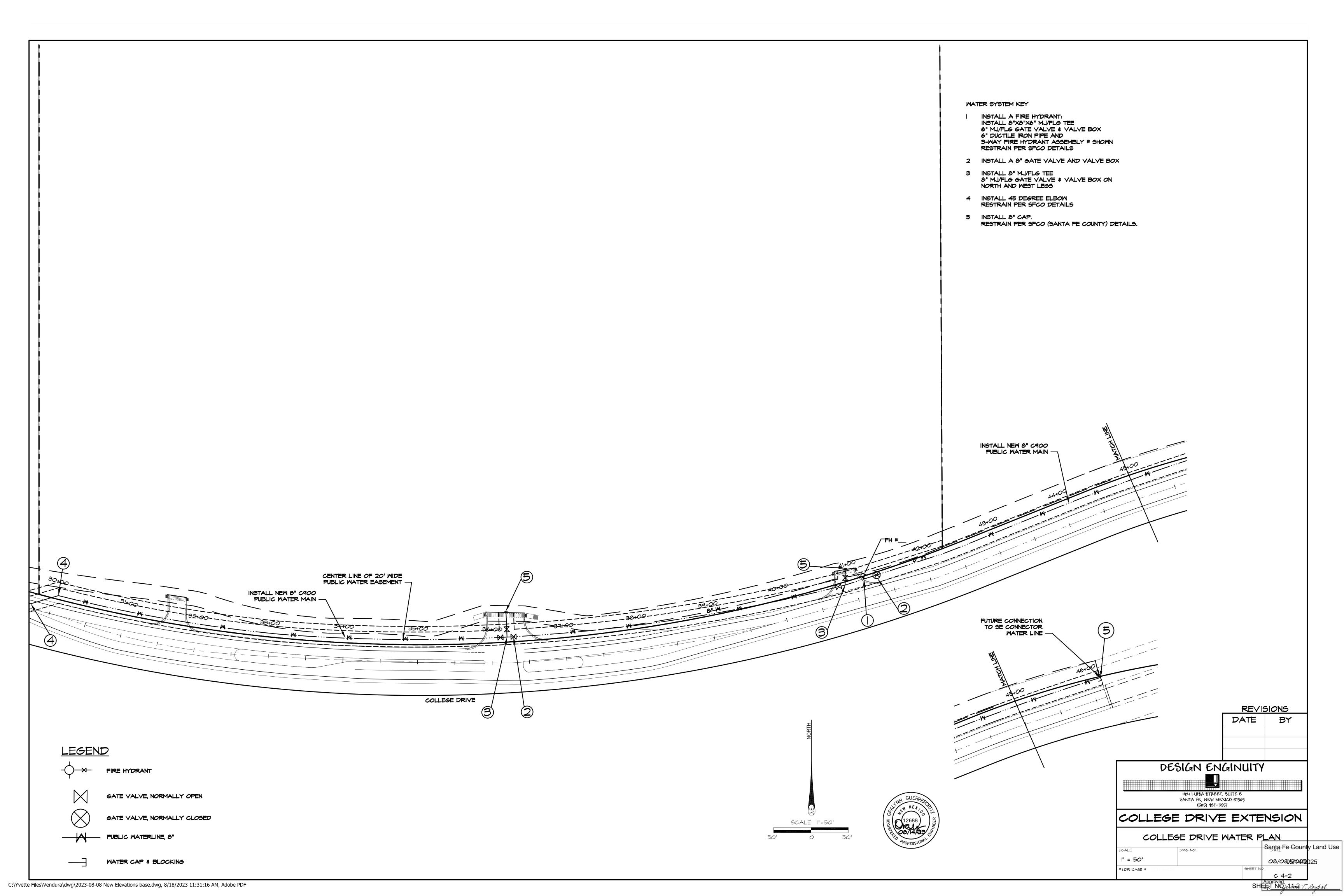


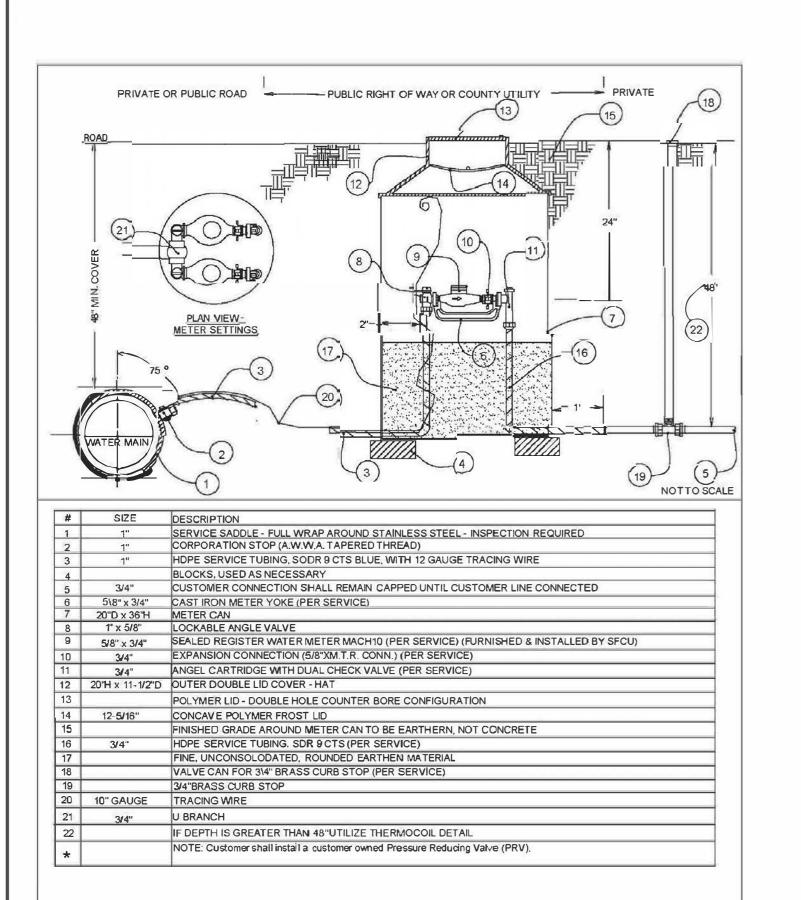


PROJECT DEVELOPED BY: Earth & Steel Design, LLC

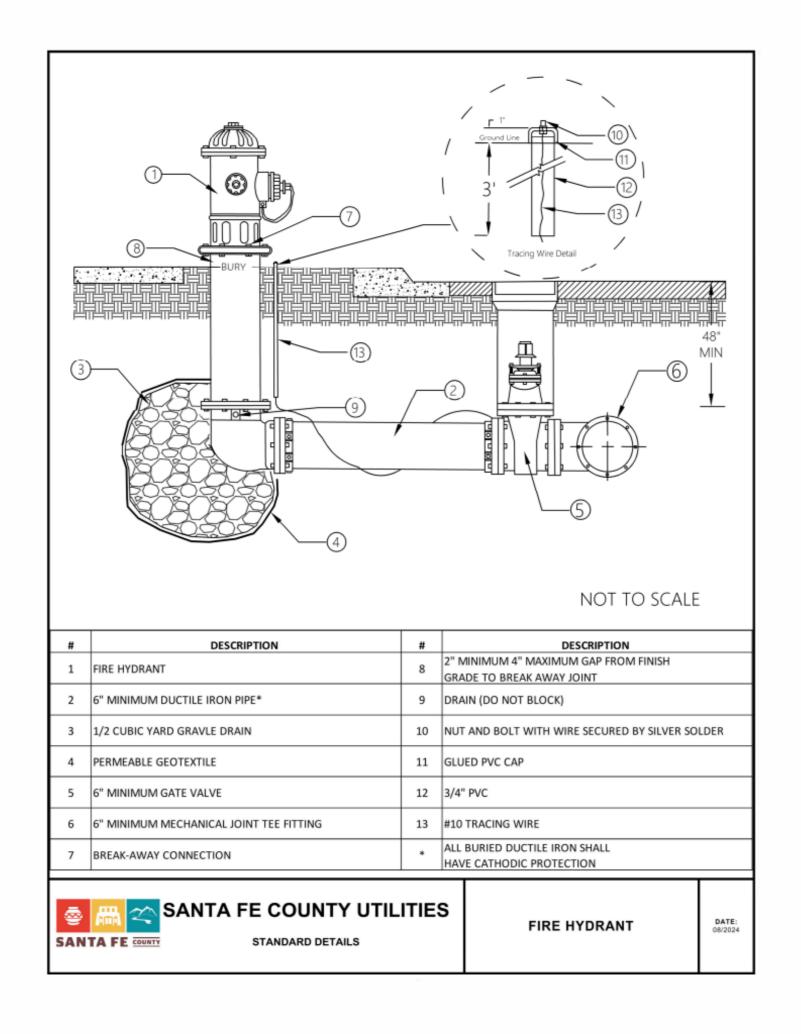


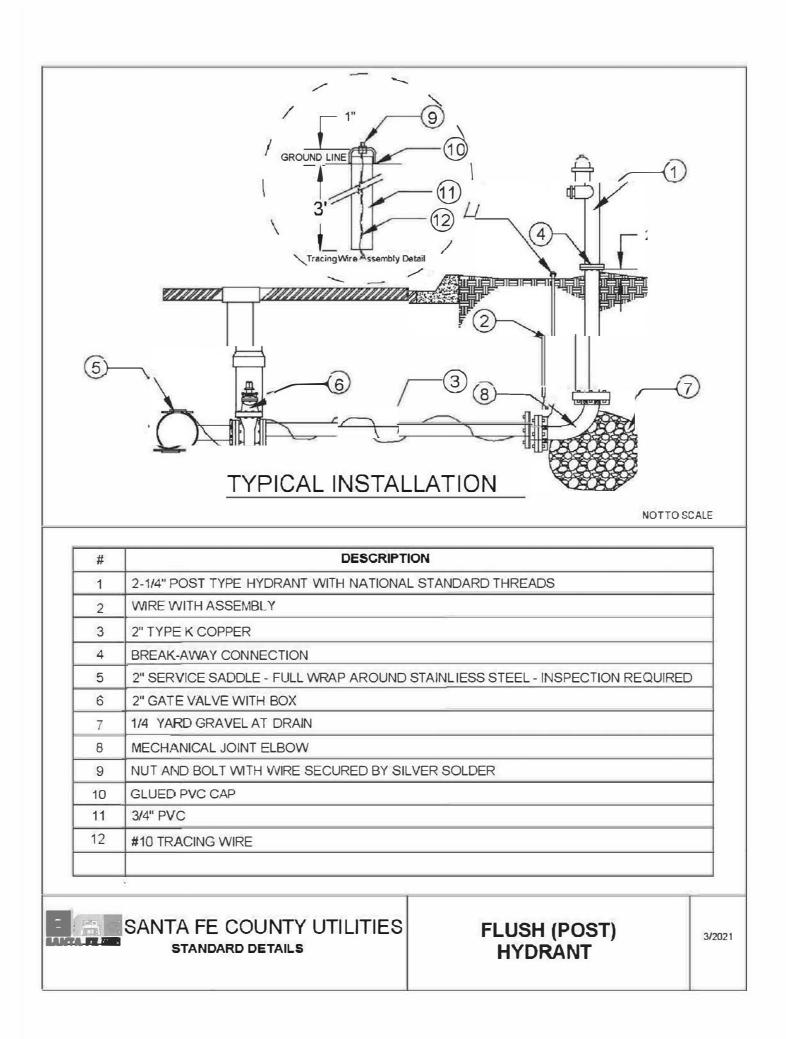


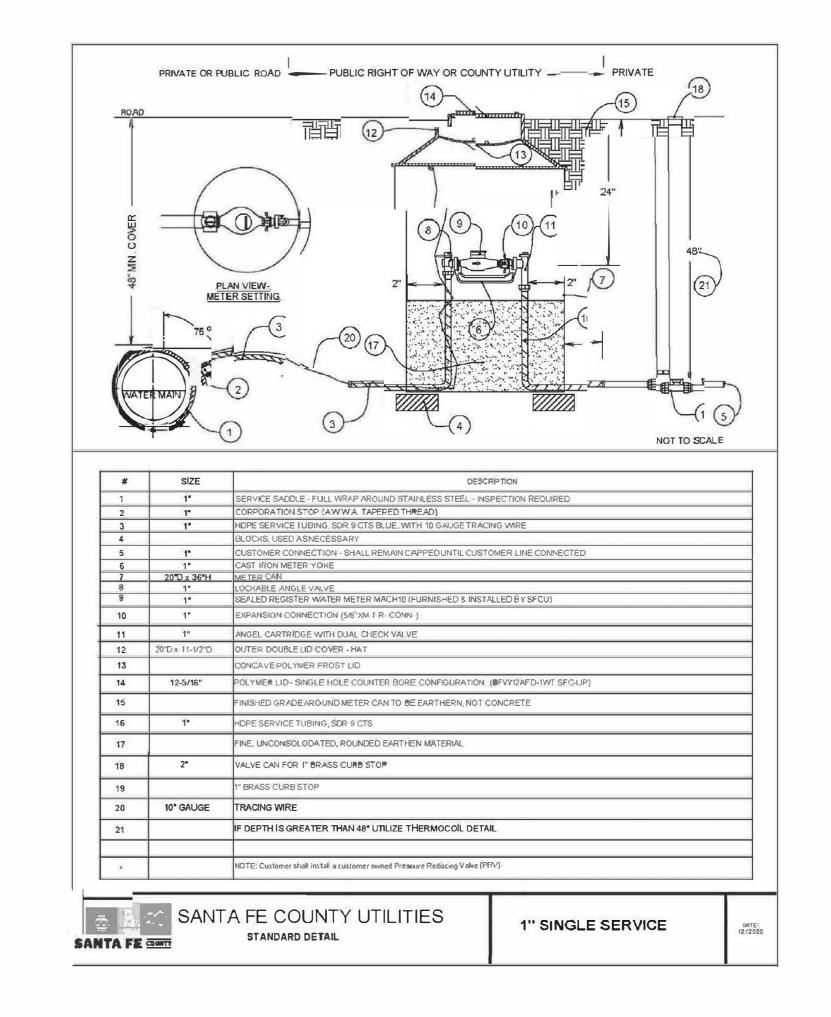


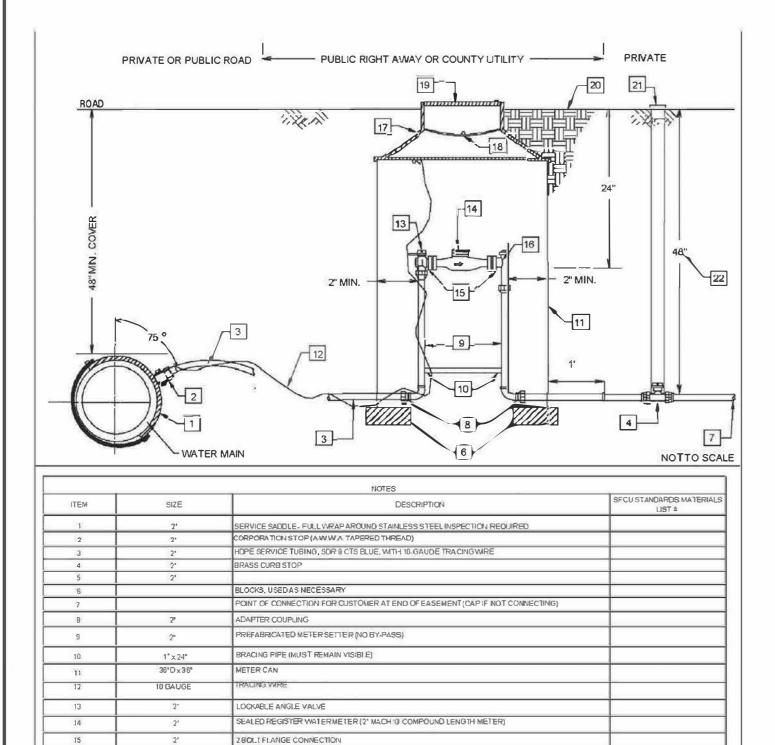


5/8" DOUBLE SERVICE









ANGEL CARTRIDGE WITH DUAL CHECK VALVE

POLYMER LID - COUNTER SUNK CONFIGURATION (DFW20AXXF- IWA SFC-LID)

OTE Each Residential Service is required to instail a Pressure Reducing Valve (PRV)

2" SINGLE SERVICE

FINISHED GRADE AROUND METER CAN TO BE EARTHERN, NOT CONCRETE

F DEPTH IS GREATER THAN 48" UTILIZE THERMOCOL DETAIL

DUTER DOUBLE LID COVER - HAT

CONCAVE POLYMER FROST LID

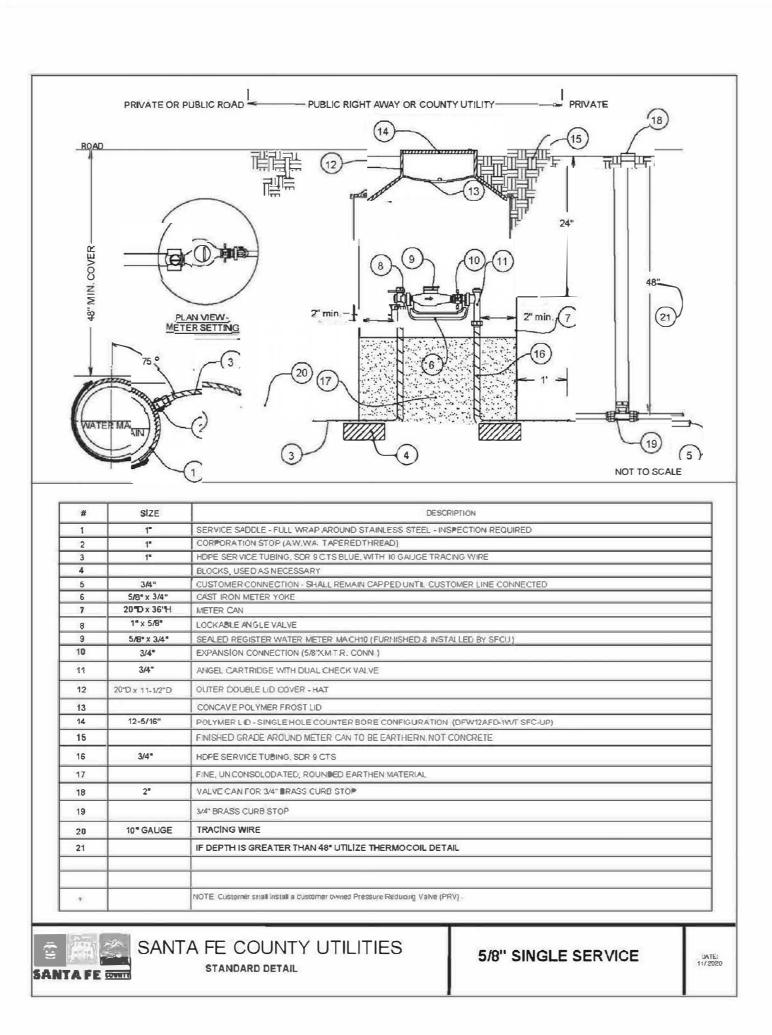
SANTA FE COUNTY UTILITIES

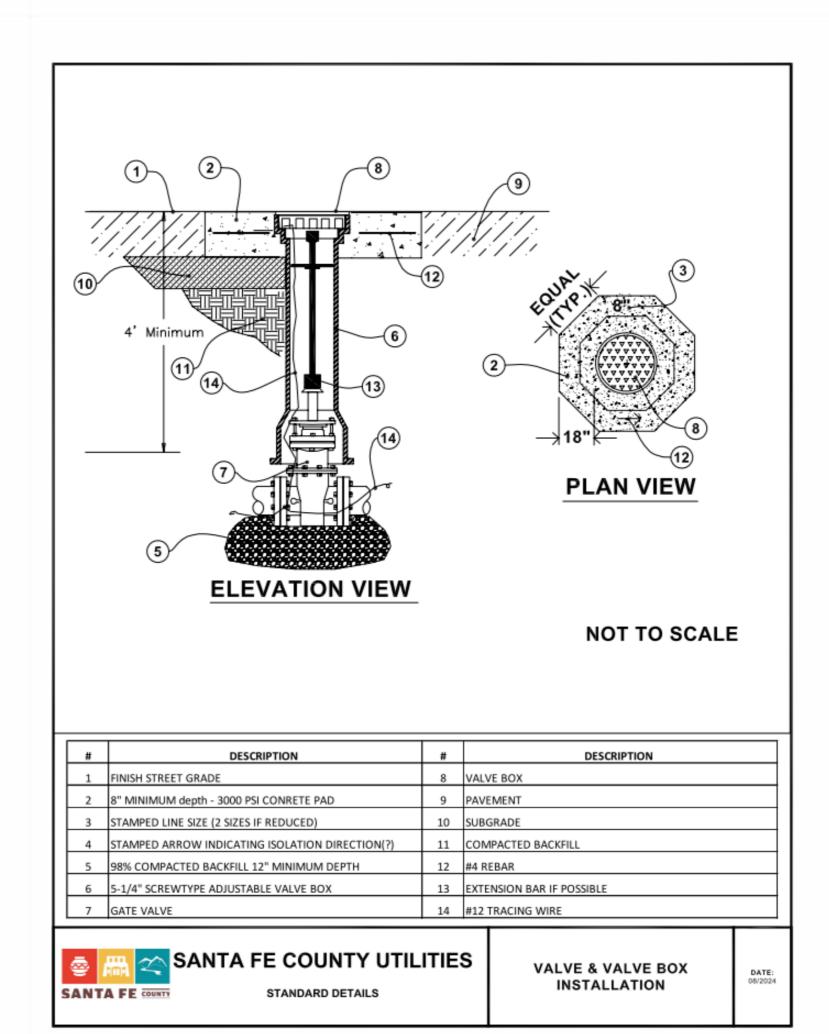
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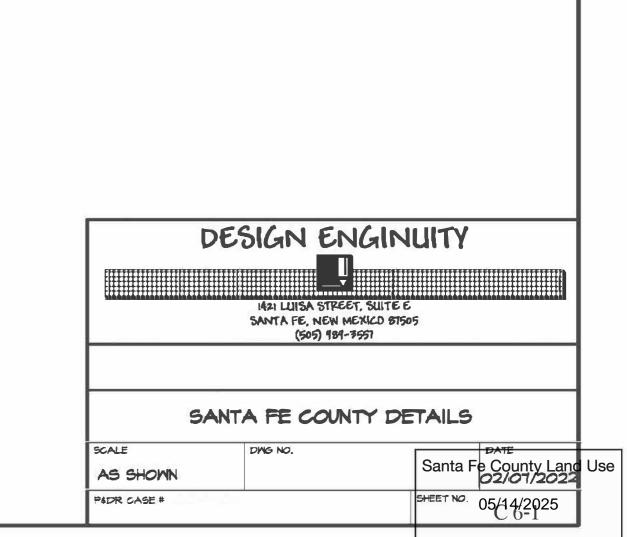
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SANTA FE COUNTY UTILITIES

SANTA FE DATE







PRODUCT SPECIFICATIONS

MUELLER® A-2361 RESILIENT WEDGE GATE VALVES - 350psi



1. GENERAL CLASSIFICATION

- 1.1 Mueller Resilient Wedge Gate Valves comply with ANSI/AWWA C515.
- 1.2 Mueller Resilient Wedge Gate Valves are approved by Factory Mutual Research Corporation (FM).
- 1.3 Mueller Resilient Wedge Gate Valves are listed by Underwriters Laboratories, Inc. (UL). Valves with actuators are not listed.
- 1.4 Mueller Resilient Wedge Gate Valves are tested and certified to ANSI/NSF Standard 61 & 372.
- 1.5 Mueller Resilient Wedge Gate Valves are suitable for potable water applications.
- 1.6 Mueller Resilient Wedge Gate Valves are iron body, fully encapsulated resilient wedge type.
- **1.7** Mueller Resilient Wedge Gate Valves are manufactured in the U.S.A. at an ISO9001 Certified factory.

2. SIZE RANGE, WORKING TEMPERATURE, AND WORKING PRESSURE

- **2.1 Sizes**: 4" to 12".
- **2.2 Working Temperature**: 33°F minimum to 125°F maximum working temperature.
- 2.3 Working Pressure: 350psi for AWWA, UL and FM.

3. TYPE OF VALVE

- 3.1 Resilient Wedge Gate Valves are non-rising stem type.
- 3.2 NRS Resilient Wedge Gate Valves feature O-ring stem seals.
- 3.3 Resilient Wedge Gate Valves are available to either open left or open right.
- 3.4 Resilient Wedge Gate Valves have a 2" square wrench nut complying with AWWA C515. Optional hand wheels are available.

3.5 Resilient Wedge Gate Valves are offered with the following end connections:

- **3.5.1** Flanged Ends with flange drilling complying to ASME B16.1 Class 125 (ISO PN10/PN16 drilling optional). Per ANSI/AWWA C111, working pressure above 250psi requires the use of a special gasket rated for the higher pressure.
- 3.5.2 Mechanical Joint Ends complying with ANSI/AWWA C111/A21.11.

3.6 Resilient Wedge Tapping valves are offered with the following end connections:

- 3.6.1 Inlet flange machined specifically for mating with Tapping Sleeves and Crosses. Raised ring on flange face complies with MSS SP-60. Drilling complies with ASME B16.1 Class 125 flange.
- 3.6.2 Standard Mechanical Joint outlet connection complies with ANSI/AWWA C111/A21.11 and is precision machined for proper alignment of Mueller® Drilling Machines.

PRODUCT SPECIFICATIONS

MUELLER® A-2361 RESILIENT WEDGE GATE VALVES - 350psi



4. MATERIAL SPECIFICATIONS

- 4.1 Cap screw Stainless Steel Type 304.
- 4.2 Wrench nut Ductile Iron, ASTM A-536.
- 4.3 Handwheel Cast Iron, ASTM A-126, Class B.
- 4.4 Stuffing box Ductile Iron, ASTM A-536.
- 4.5 Stem O-rings Nitrile, ASTM D2000.
- 4.6 Anti-friction washers Acetal.
- 4.7 Stem Manganese Bronze, CDA Alloy C67600.
- 4.8 Bonnet Ductile Iron, ASTM A-536.
- 4.9 Bonnet seal O-ring, Nitrile, ASTM D2000.
- 4.10 Stuffing box bolts & nuts Stainless Steel Type 304.
- 4.11 Bonnet bolts & nuts Stainless Steel Type 304.
- 4.12 Disc nut Bronze, ASTM B-584 Alloy C89833.
- 4.13 Guide cap bearings Acetal.
- 4.14 Disc Ductile Iron, ASTM A-536.
- 4.15 Disc encapsulated SBR ASTM D2000.
- 4.16 Body Ductile Iron, ASTM A-536.
- 4.17 Coating inside and outside of valve fully coated Mueller PRO-GARD® Fusion Bonded Epoxy coating complies with ANSI/AWWA C550 and valve is certified to ANSI/NSF Standard 61 & 372.

5. DESIGN FEATURES

- **5.1** Flow way fully unobstructed, oversized flow-way. The sealing mechanism is withdrawn from the flow-way in a full open position. No pockets in bottom of flow-way to trap sediment or debris. The flow-way will permit passage of full-sized shell cutters.
- 5.2 Bronze Disc Nut on all valves.
- **5.3** Anti-Friction Washers on non-rising stem valves located above and below the thrust collar portion of the stem to reduce friction and provide more effective conversion of operating torques into seating loads.
- 5.4 Stem for non-rising stem valves, with O-ring Seals One O-ring is located below the thrust collar of the stem and two are located above the thrust collar, the upper most serving as a dirt seal. The O-rings and thrust collar are factory lubricated. The two primary O-rings seal the thrust collar area from outside contaminants and water, and retain an ample amount of lubricant on the thrust collar and anti-friction washers to reduce operating torque and wear.
- 5.5 Stem The threads on the bronze stem are Acme form threads for strength and efficiency. The stem thrust collar is made integral with the stem -- and is formed by a heat upset operation.
- 5.6 Upper Stem O-ring Replacement The two O-rings above the thrust collar of all Mueller Resilient Wedge Gate Valves can be replaced with the valve in the fully open position, under pressure, with no leakage.

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PRODUCT SPECIFICATIONS

MUELLER® A-2361 RESILIENT WEDGE GATE VALVES - 350psi



5.7 Corrosion Resistance – all inside and outside cast iron surfaces are coated with Mueller PRO-GARD® Epoxy Coating, 10 mils nominal. Mueller PRO-GARD® Epoxy Coating is non-toxic and imparts no taste to water. Valves comply with ANSI/AWWA C550 and are certified to ANSI/NSF Standard 61 & 372.

6. OPTIONAL FEATURES

- 6.1 Mueller A-2361 350psi Resilient Wedge Gate Valves can be furnished with the following optional designs or features:
- **6.1.1 Gearing** Bevel and Spur gearing available. Bevel geared valves are for horizontal installations; spur geared for vertical. Geared valves provide an additional bearing to
- support the extreme end of the stem.

 6.1.2 Position indicator Available for NRS valves 4" and larger.
- **6.1.3** Bolts and nuts Stainless Steel, Type 316.
- 6.1.4 Stem Silicon bronze ASTM B98 C66100; 304 Stainless Steel or 316 Stainless Steel.
- 6.1.5 Disc encapsulation and O-rings EPDM ASTM D2000.

7. TEST PRESSURE

- 7.1 The pressure test on each Mueller Resilient Wedge Gate Valve meets the requirements of AWWA Standard C515 for Resilient Seated Valves.
 - 7.1.1 Each Mueller Resilient Wedge Gate Valve is subjected to two pressure tests. The seat test is at the working pressure of AWWA valves and 1-1/2 times working pressure of UL Listed valves. Shell tests are at two times the working pressure.
 - 7.1.2 Pressure tests at the working pressure shall show NO leakage past the seat from either side of the wedge or at the flange joints. Pressure tests at twice the working pressure shall show NO leakage through the metal or flange joints.
 - 7.1.3 Test pressures are as follows: 525psi seat test, 700psi shell test.

Water (U.S.) 1.800.423.1323

www.mueller.company.com
more-info@mueller.canada.com
more-info@mueller.canada.com
more-info@mueller.canada.com
international 1.423.490.9555

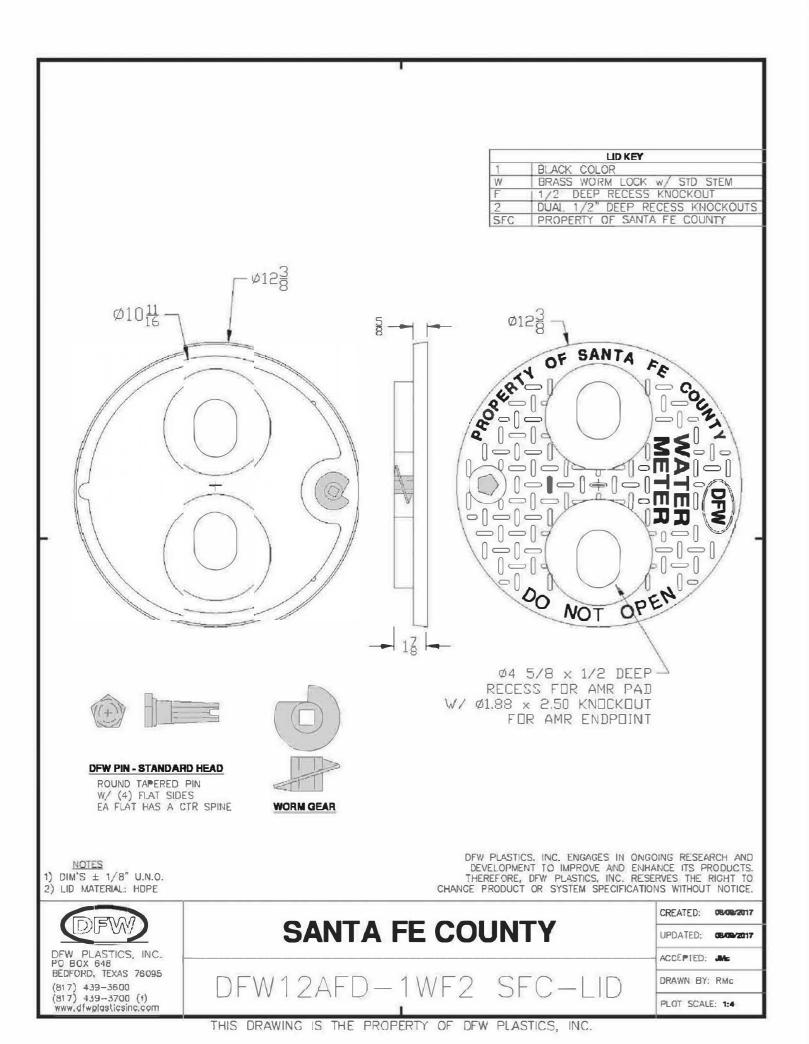
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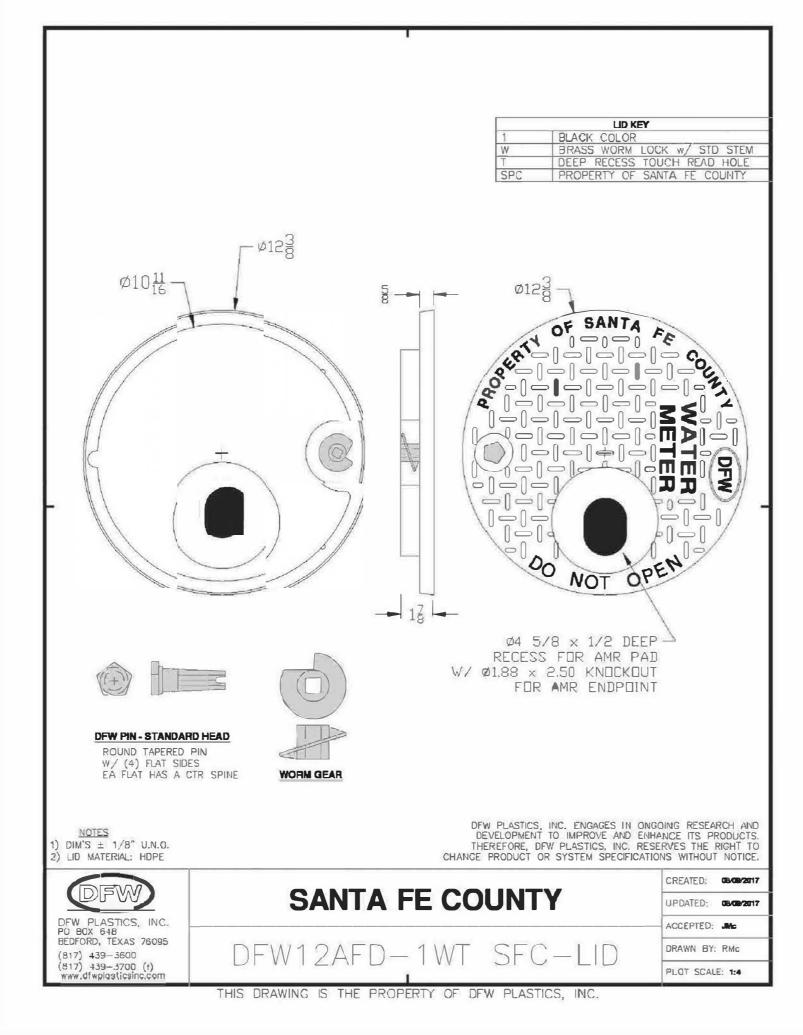
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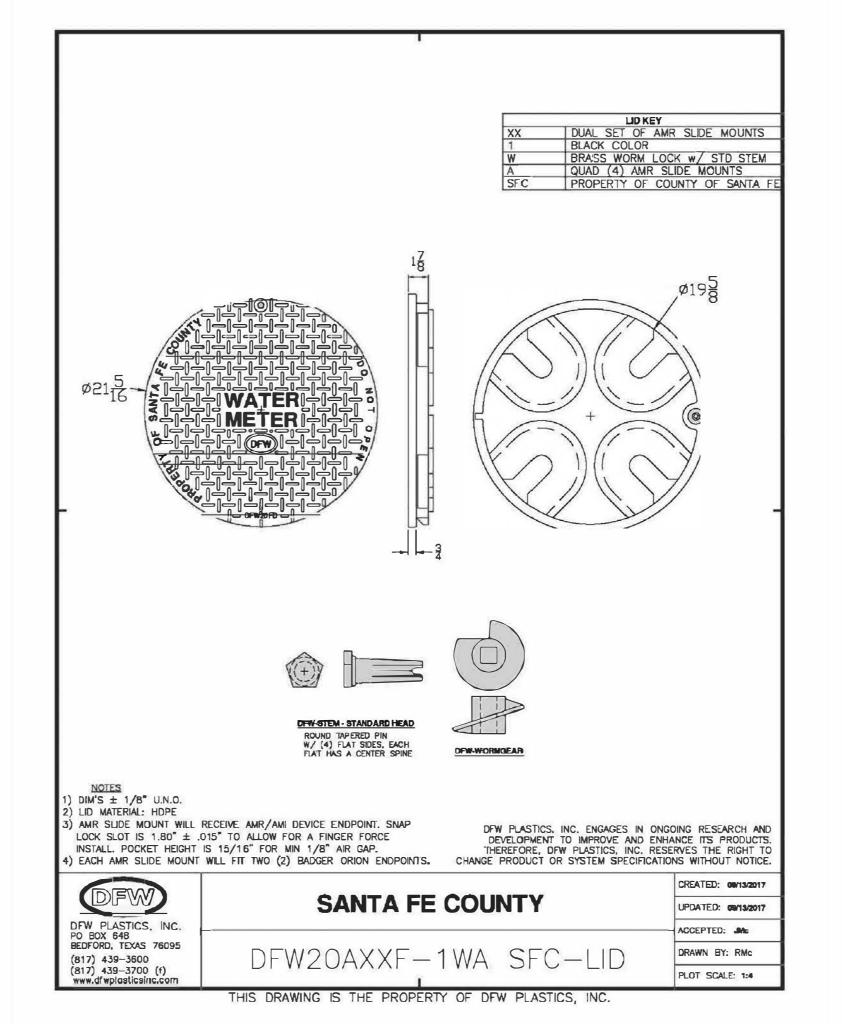
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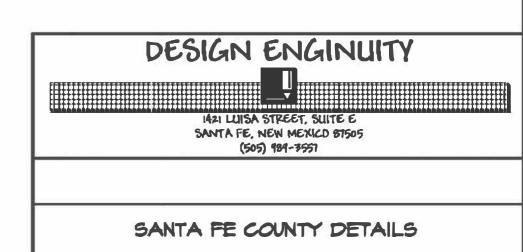
www.mueller.canada.co

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SCALE

AS SHOWN

PADR CASE #

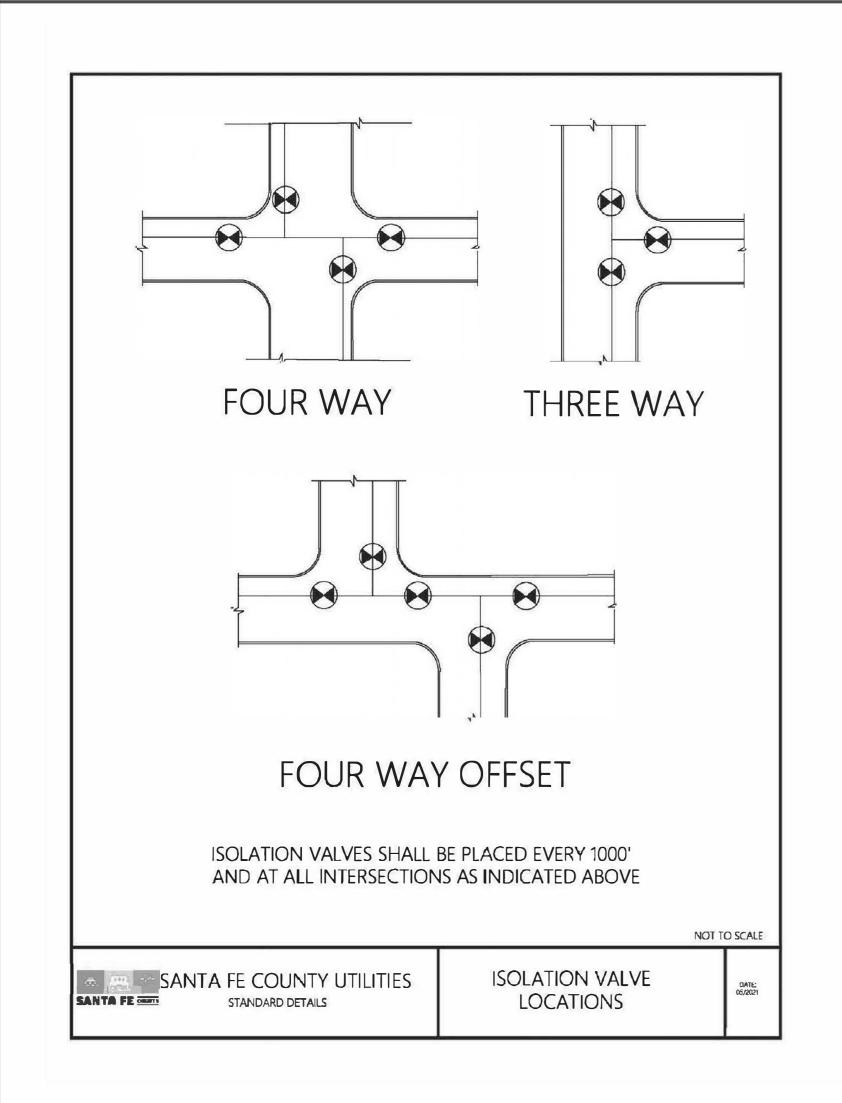
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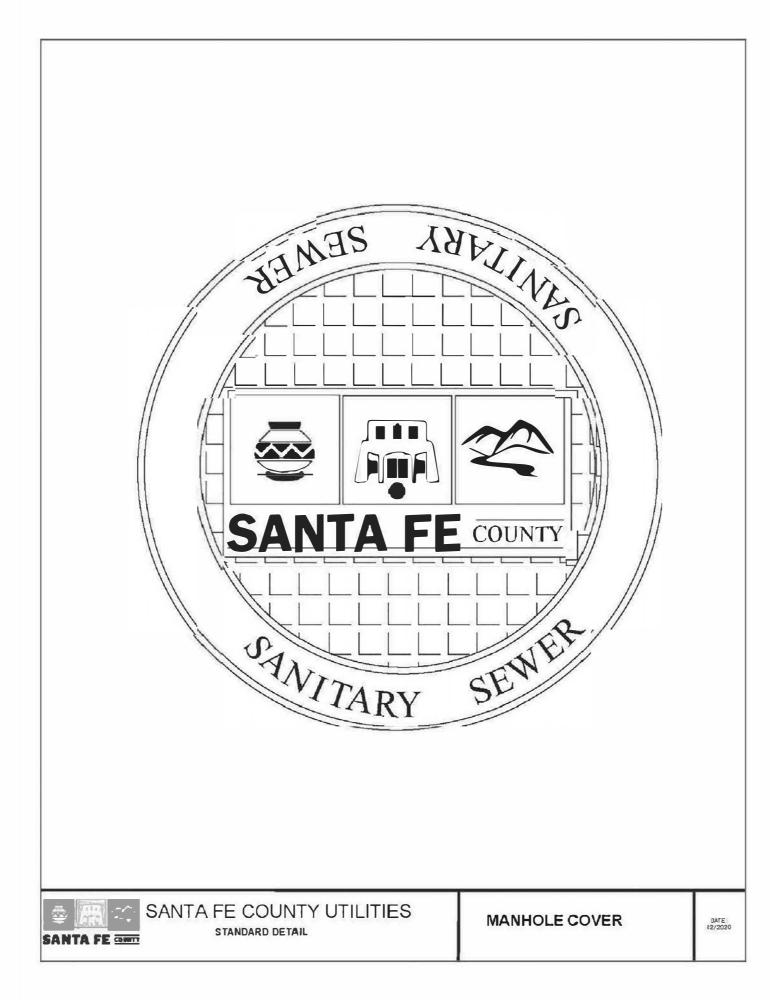
Santa Fe County Land Use

02/07/2022

SHEET NO. 05/14/2025

Approved
By: <u>Jerome T. Roybal</u>





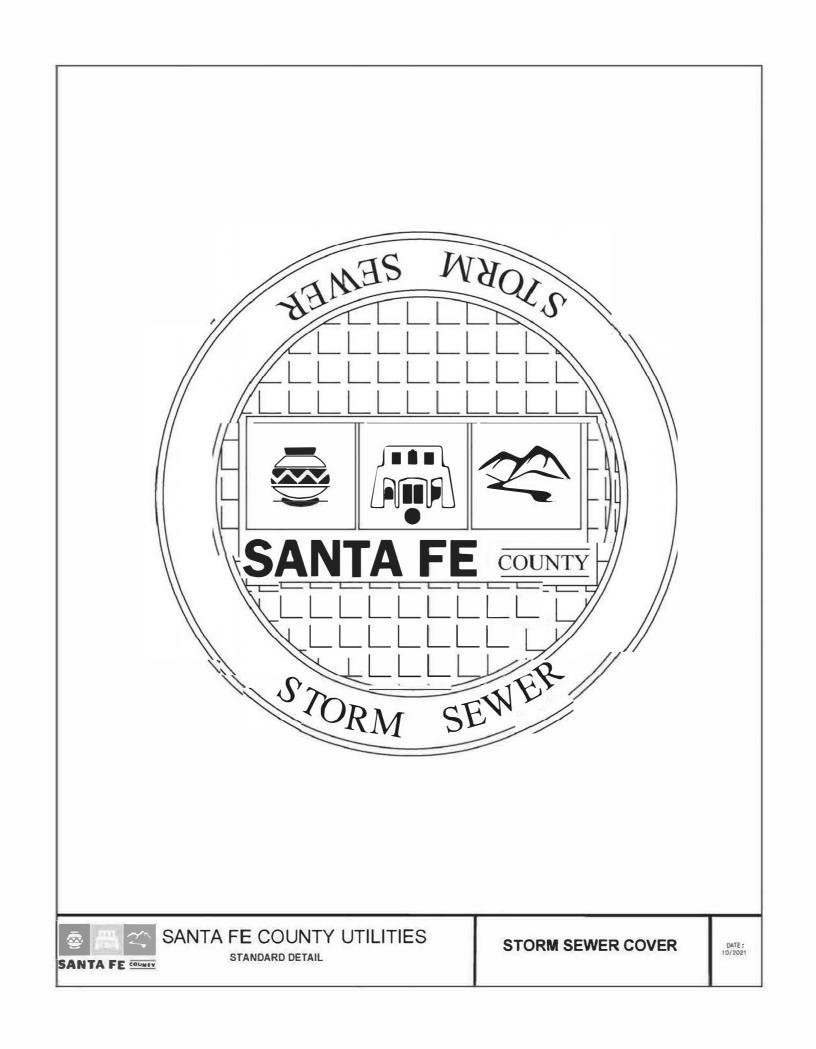


TABLE 1: MINIMUM SPECIFIED TIME REQUIRED FOR A 1.0 PSIG PRESSURE DROP FOR SIZE AND LENGTH OF PIPE INDICATED FOR Q = 0.0015 Pipe Diameter (in.) Minimum Length for Minimum Time (min:sec) Minimum Time (ft.) Time for Longer Length (sec) Specification Time (min:sec) for Length L Shown Below in feet 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 6 5:40 398 0.854 L 5:40 5:40 5:40 5:40 5:40 5:40 5:40 6:24

 8
 7:34
 298
 1.520 L
 7:34
 7:34
 7:34
 7:34
 7:34
 7:36
 8:52
 10:08
 11:24

 10
 9:26
 239
 2.374 L
 9:26
 9:26
 9:53
 11:52
 13:51
 15:49
 17:48

 12
 11:20
 199
 3.418 L
 11:20
 11:20
 11:24
 14:15
 17:05
 19:56
 22:47
 25:38

 15
 14:10
 159
 5.342 L
 14:10
 14:10
 17:48
 22:15
 26:42
 31:09
 35:36
 40:04

 18
 17:00
 133
 7.692 L
 17:00
 19:13
 25:38
 32:03
 38:27
 44:52
 51:16
 57:41

 21
 19:50
 114
 10:470 L
 19:50
 26:10
 34:54
 43:37
 52:21
 61:00
 69:48
 78:31

 24
 22:40
 99
 13:674 L
 22:47
 34:11
 45:34
 56:58
 68:22
 79:46
 91:10
 102:33
 27 25:30 88 17.306 L 28:51 43:16 57:41 72:07 86:32 100:57 115:22 129:48 30 28:20 80 21.366 L 35:37 53:25 71:13 89:02 106:50 124:38 142:26 160:15
 33
 31:10
 72
 25.852 L
 43:05
 64:38
 86:10
 107:43
 129:16
 150:43
 172:21
 193:53

 36
 34:00
 66
 30.768 L
 51:17
 76:55
 102:34
 128:12
 153:50
 179:29
 205:07
 230:46

(Table taken from UNI-B-6-90)

TABLE 2: MINIMUM SPECIFIED TIME REQUIRED FOR A 0.5 PSIG PRESSURE DROP FOR SIZE AND LENGTH OF PIPE INDICATED FOR Q = 0.0015

Pipe Diameter (in.)	Minimum Time (min:sec)	Length for Minimum Time (ft.)	Time for Longer Length (sec)		Specifica	ition Time (r	min:sec) for	Length L S	Shown Belo	w in feet	
				100	150	200	250	300	350	400	450
4	1:53	597	0.190 L	1:53	1:53	1:53	1:53	1:53	1:53	1:53	1:53
6	2:50	398	0.427 L	2:50	2:50	2:50	2:50	2:50	2:50	2:51	3:12
8	3:47	298	0.760 L	3:47	3:47	3:47	3:47	3:48	4:26	5:04	5:42
10	4:43	239	1.187 L	4:43	4:43	4:43	4:57	5:56	6:55	7:54	8:54
12	5:40	199	1.709 L	5:40	5:40	5:42	7:08	8:33	9:58	11:24	12:50
15	7:05	159	2.671 L	7:05	7:05	8:54	11:08	13:21	15:35	17:48	20:02
18	8:30	133	3.846 L	8:30	9:37	12:49	16:01	19:14	22:26	25:38	28:51
21	9:55	114	5.235 L	9:55	13:05	17:27	21:49	26:11	30:32	34:54	39:16
24	11:20	99	6.837 L	11:23	17:57	22:48	28:30	34:11	39:53	45:35	51:17
27	12:45	88	8.653 L	14:25	21:38	28:51	36:04	43:16	50:30	57:42	46:54
30	14:10	80	10.683 L	17:48	26:43	35:37	44:31	53:25	62:19	71:13	80:07
33	15:35	72	12.926 L	21:33	32:19	43:46	53:52	64:38	75:24	86:10	96:57
36	17:00	66	15.384 L	25:39	38:28	51:17	64:06	76:55	89:44	120:34	115:23
			,	(T	able taker	from UN	I-B-6-90)				

(Table taken from UNI-B-6-90)

END OF SECTION

SANITARY GRAVITY SEWER LINE TESTING New: 05/09

02731-5

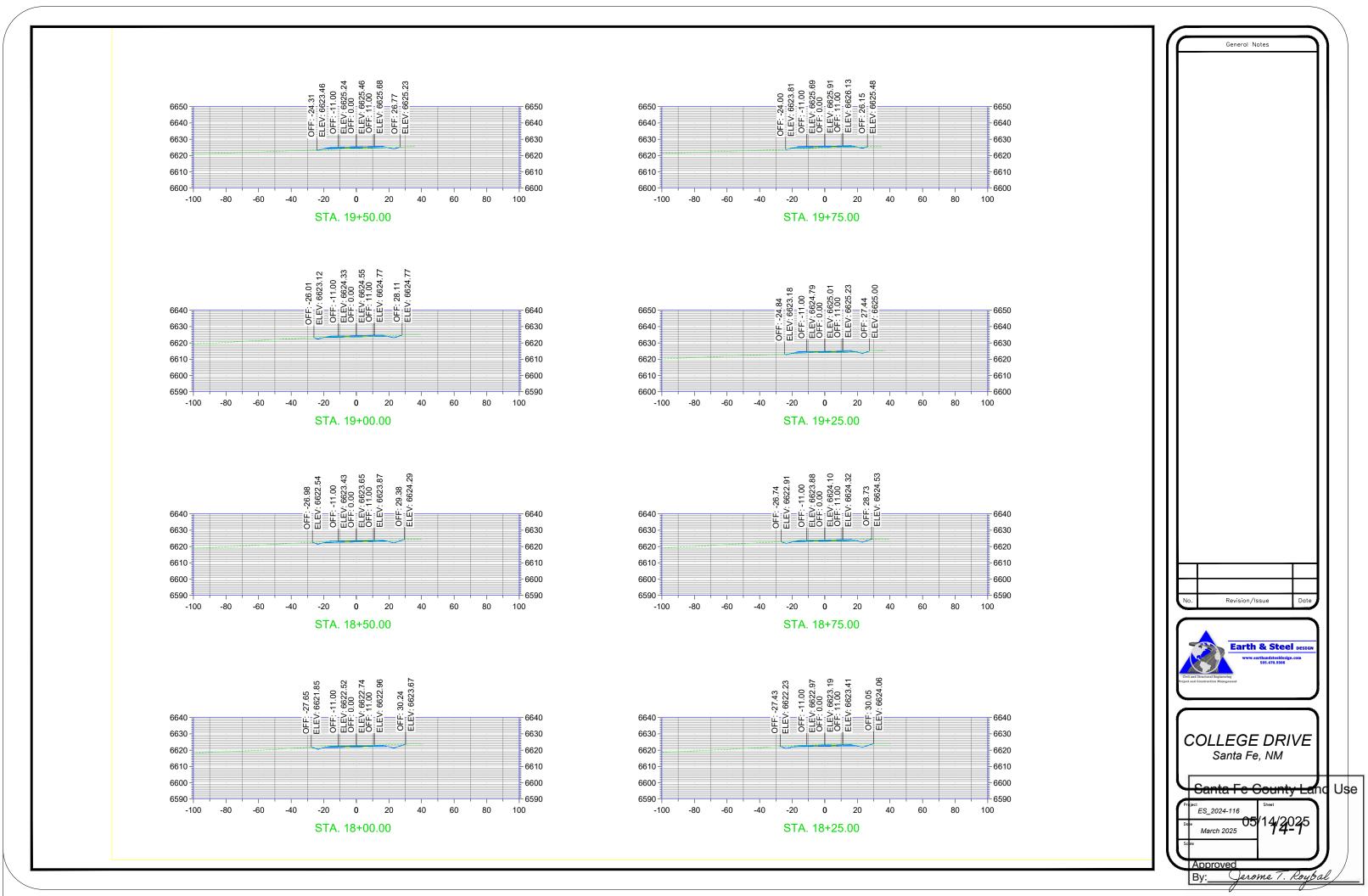
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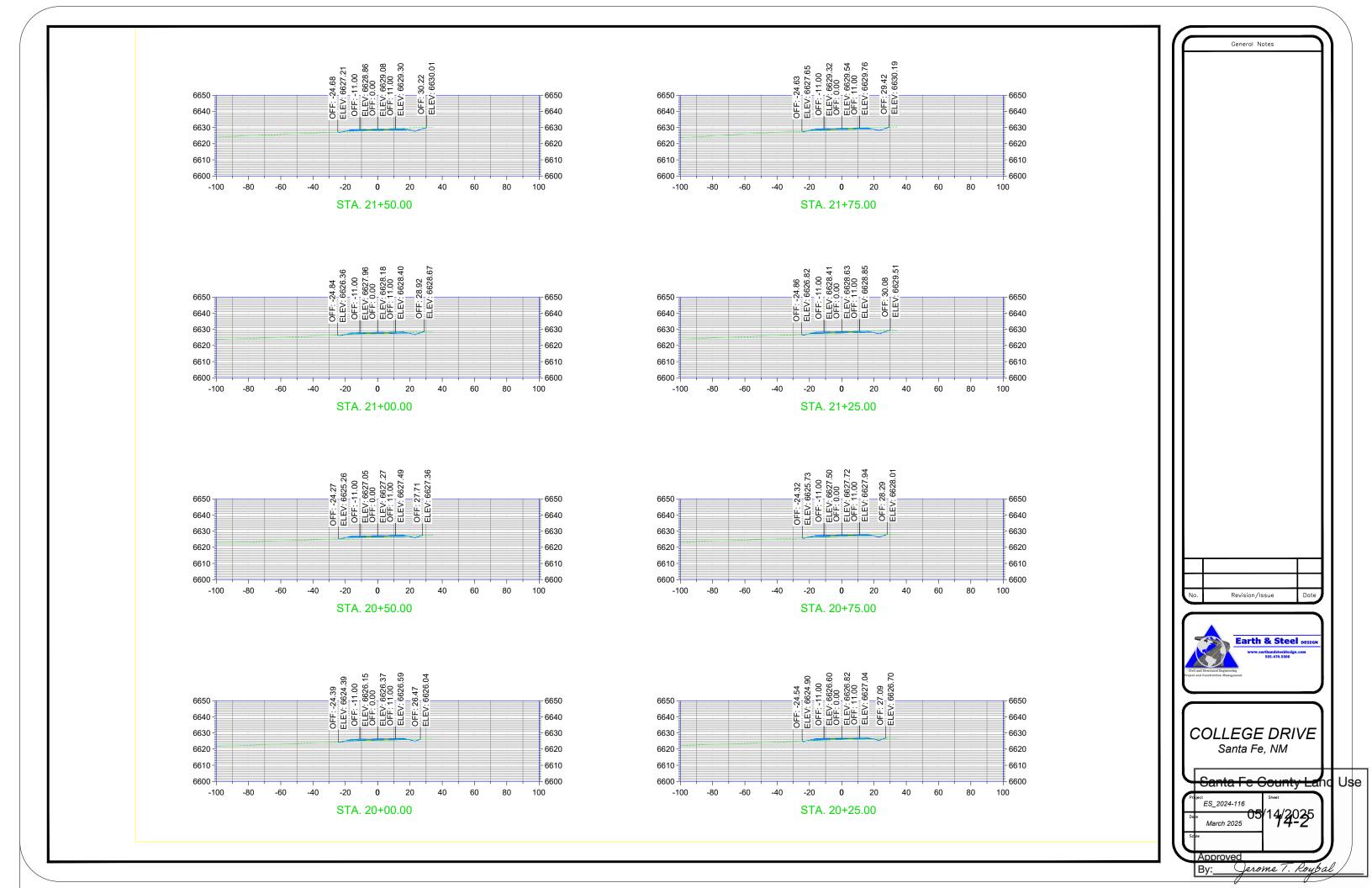
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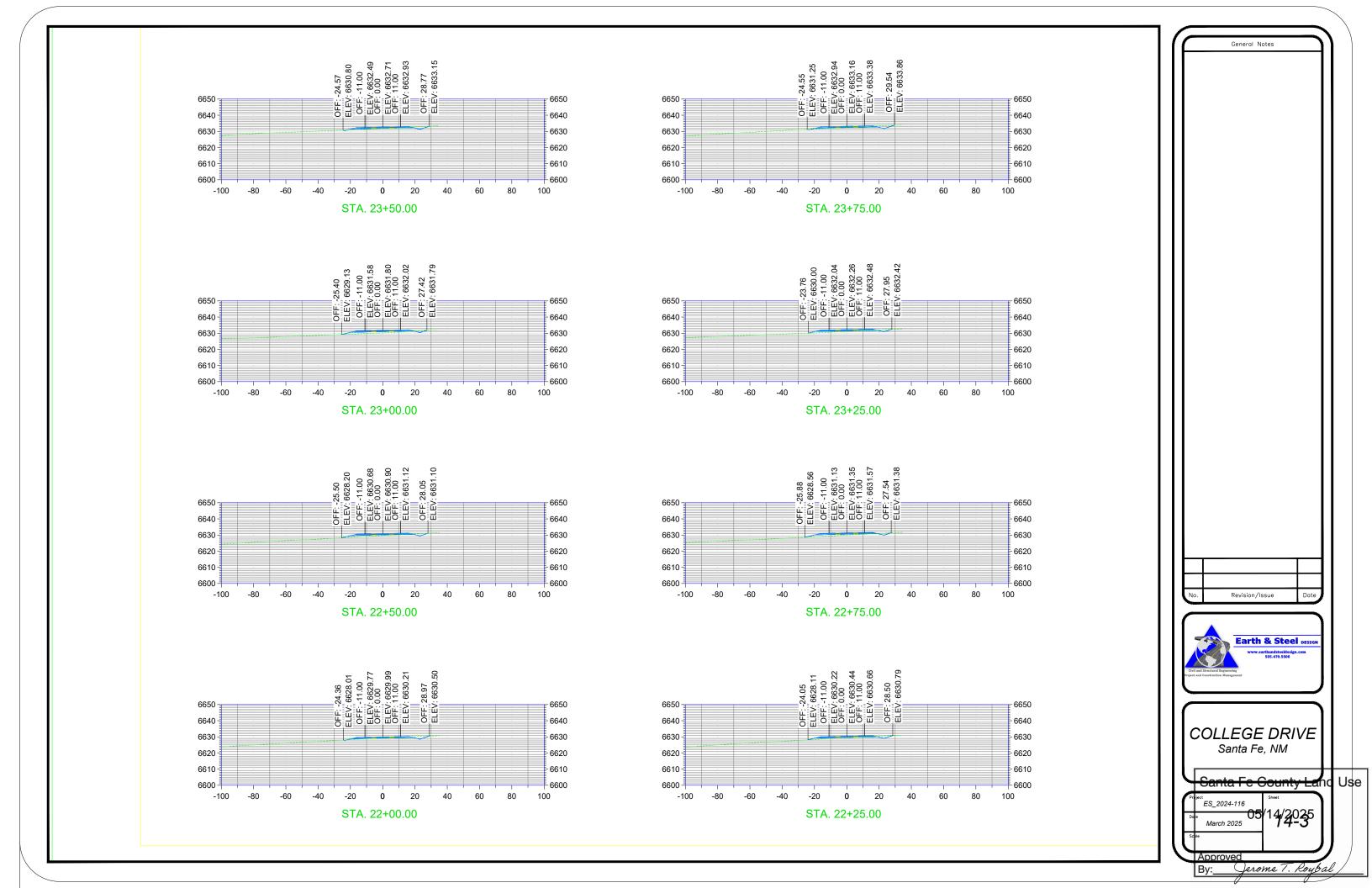
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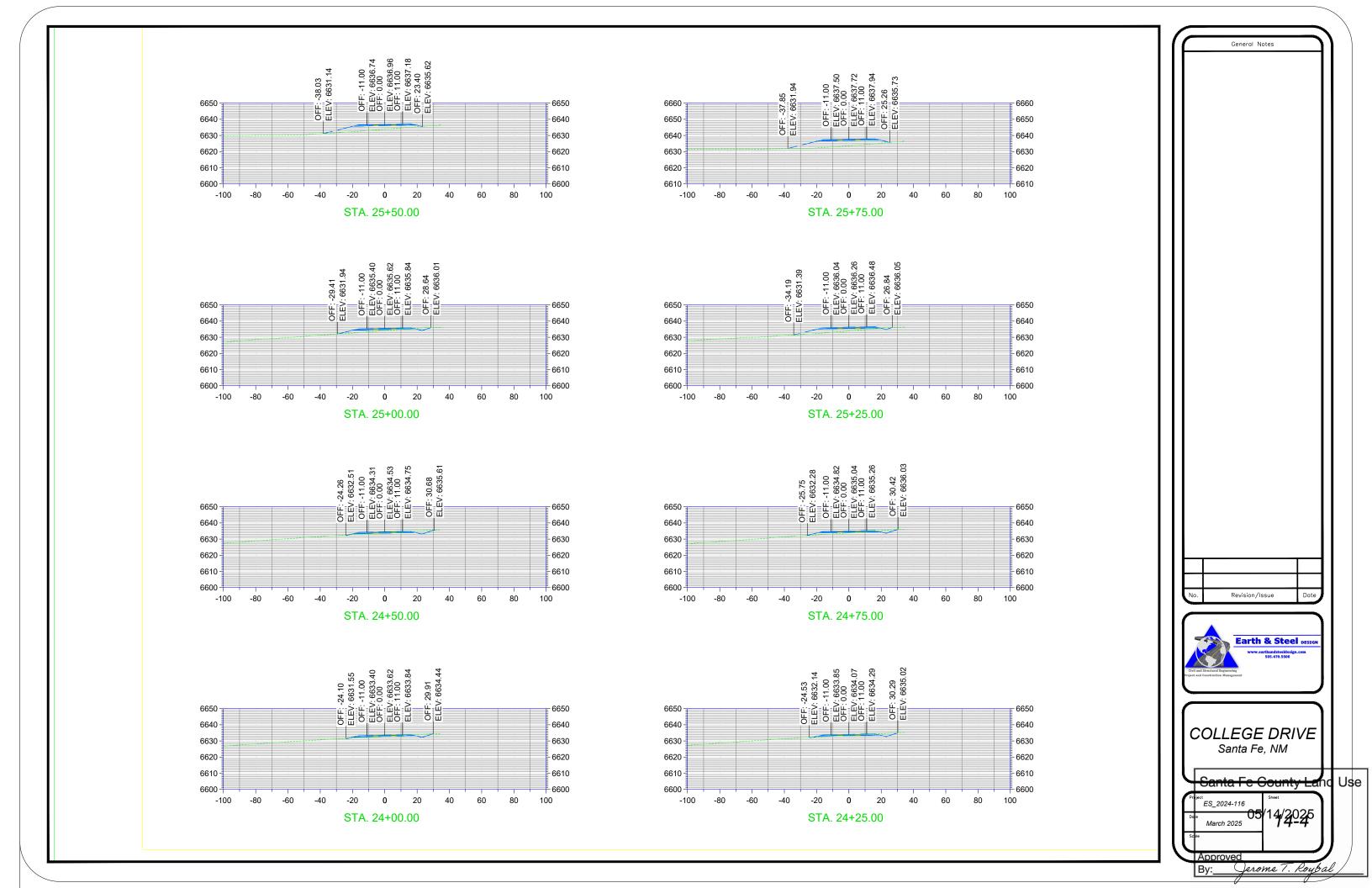
SANTA FE COUNTY DETAILS

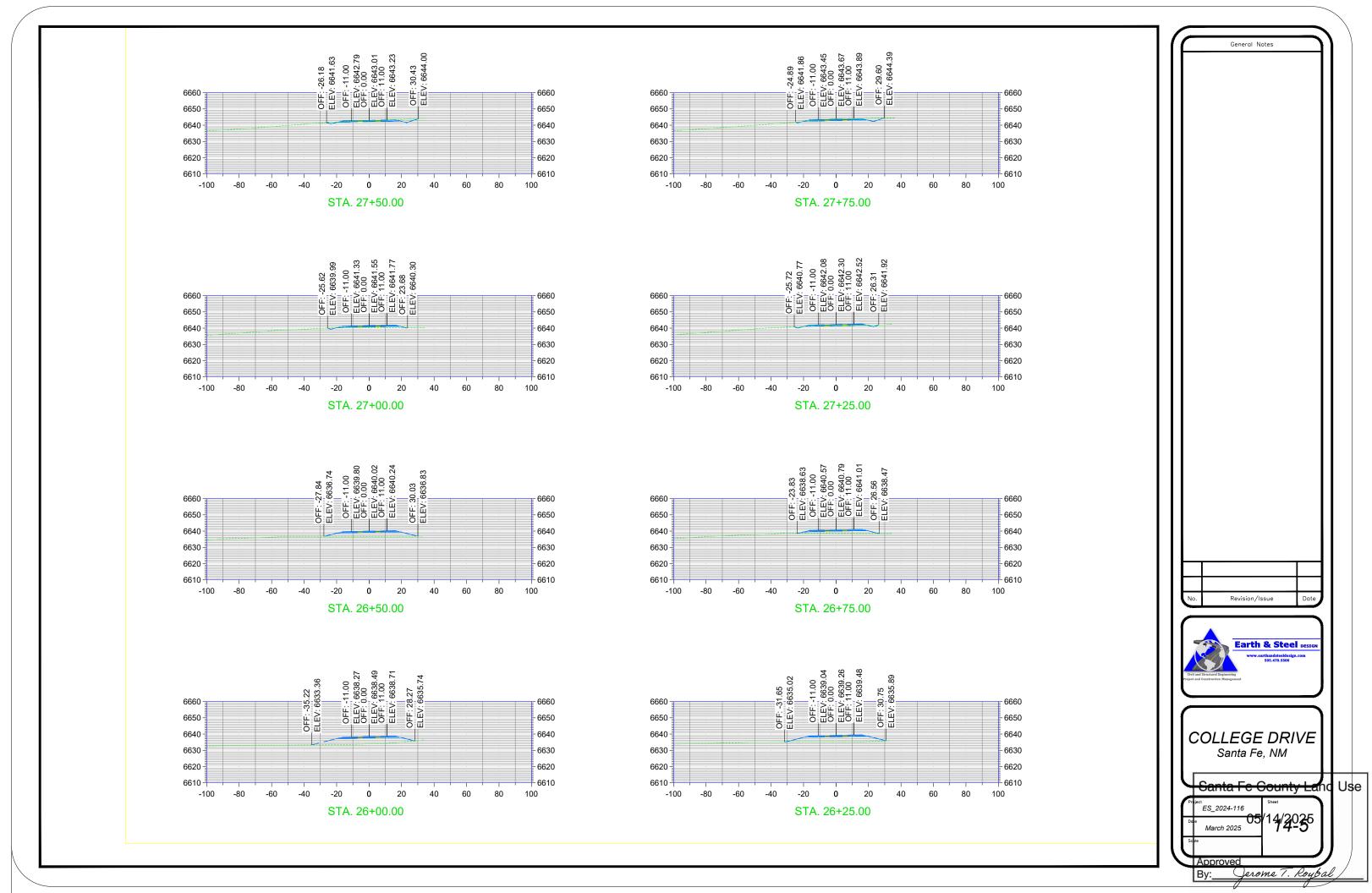
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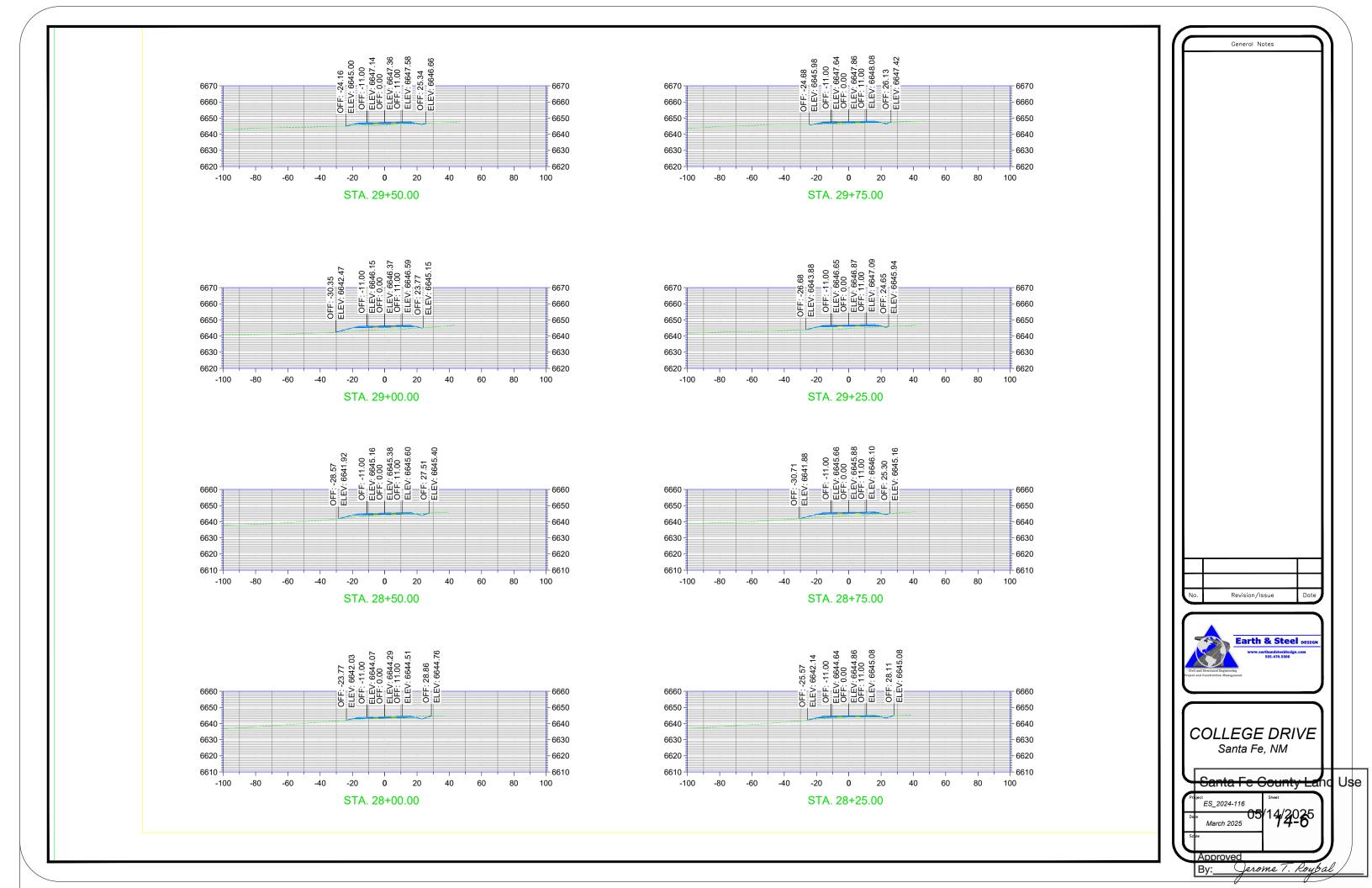


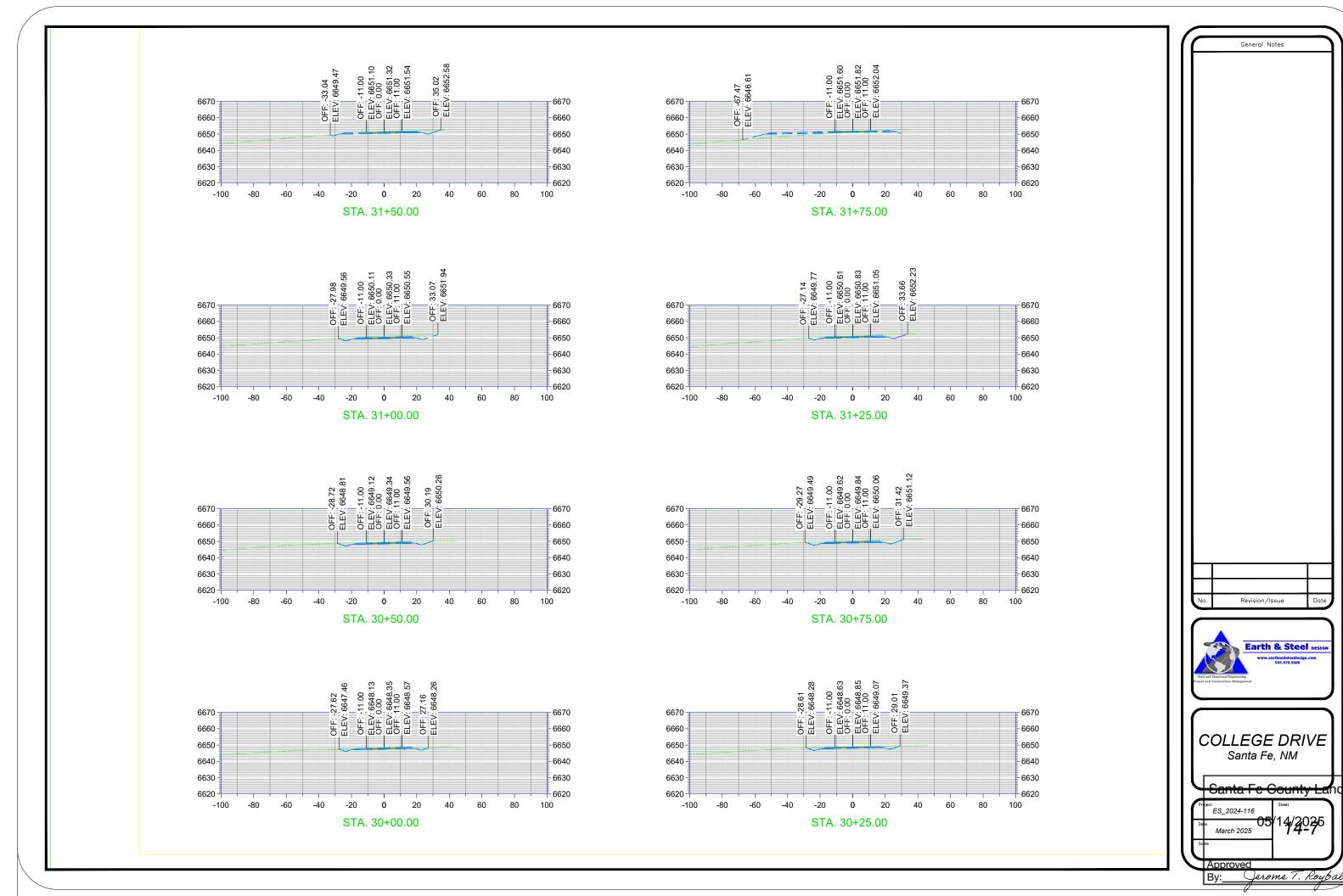




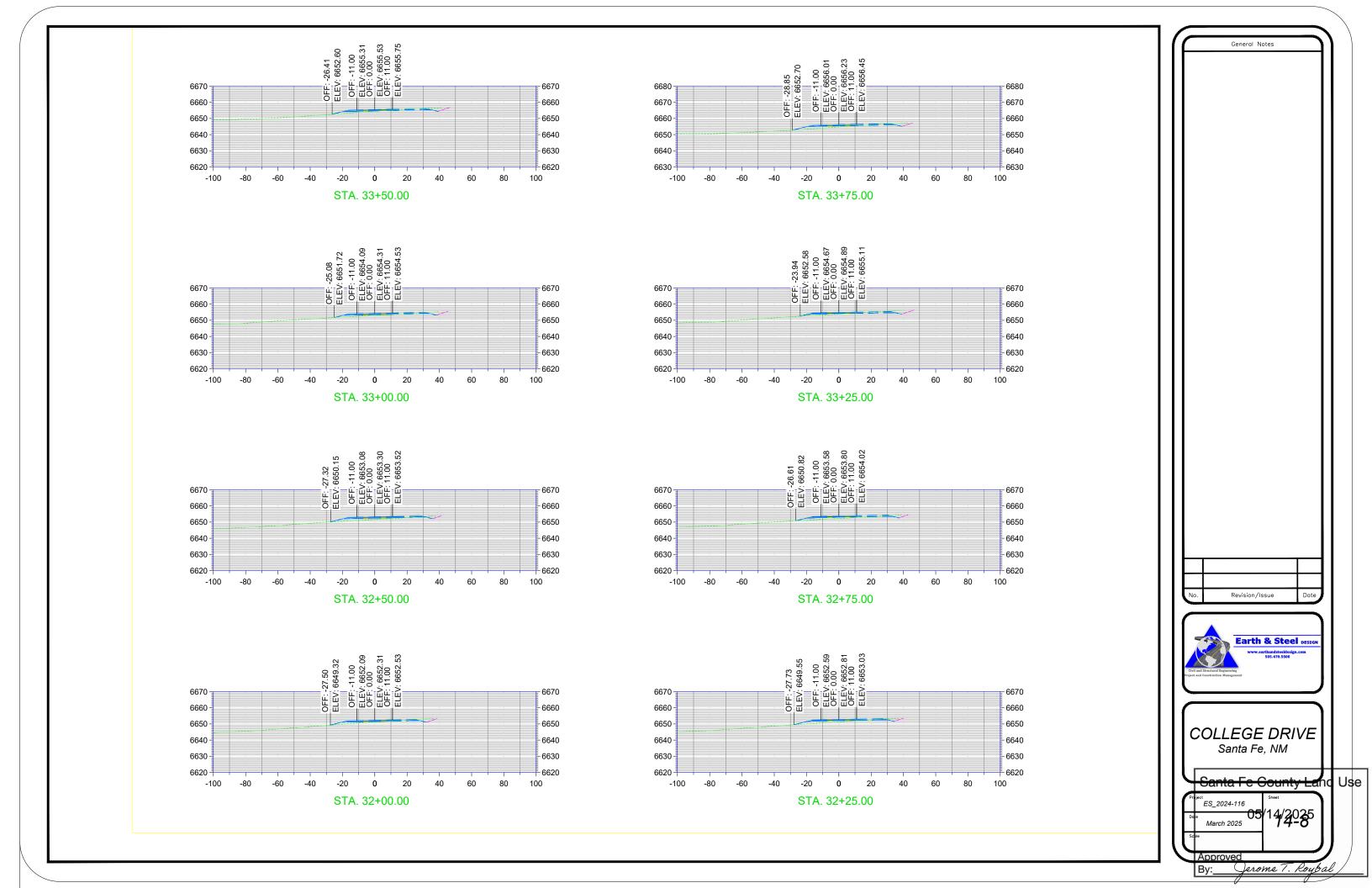


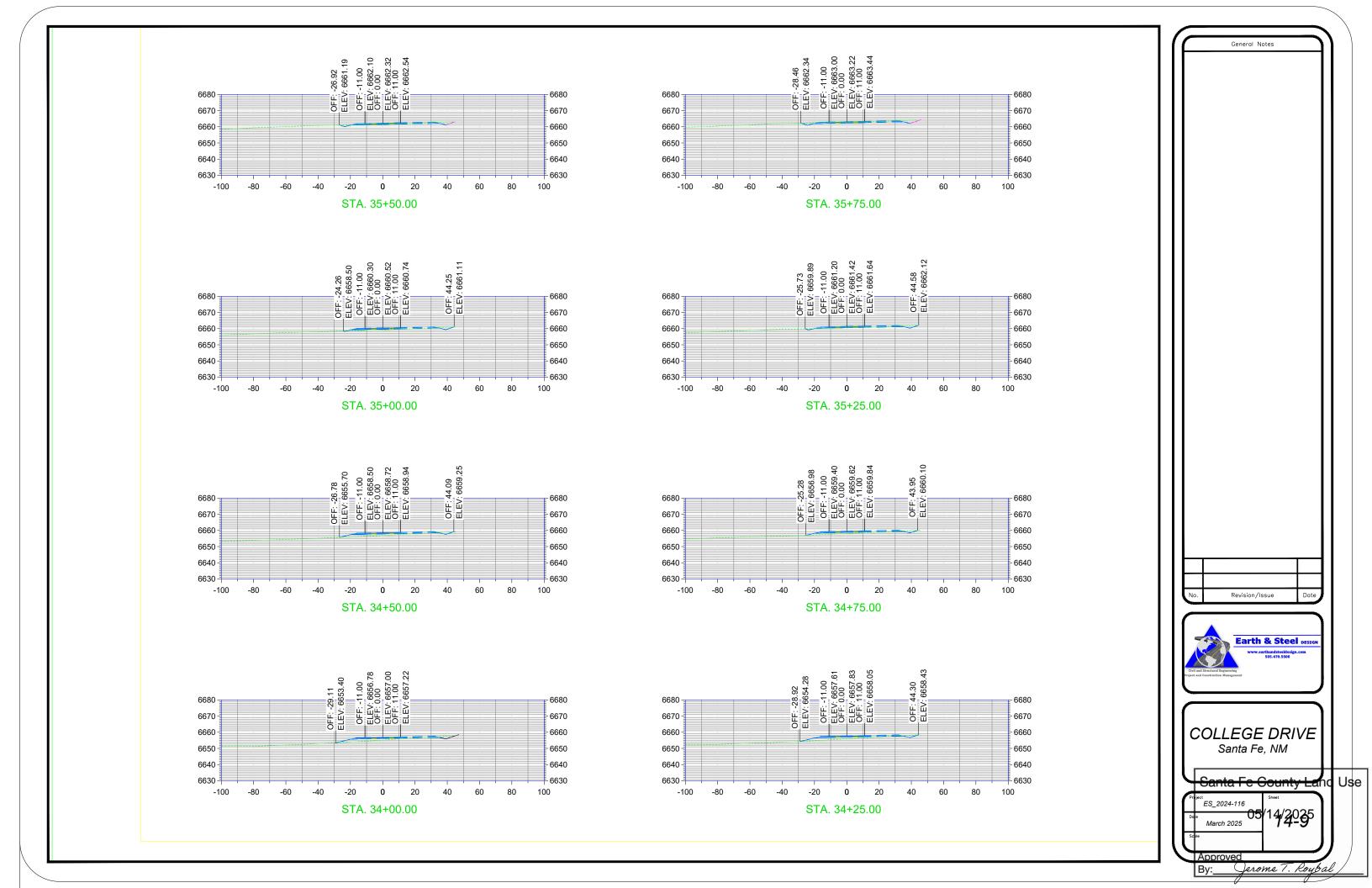


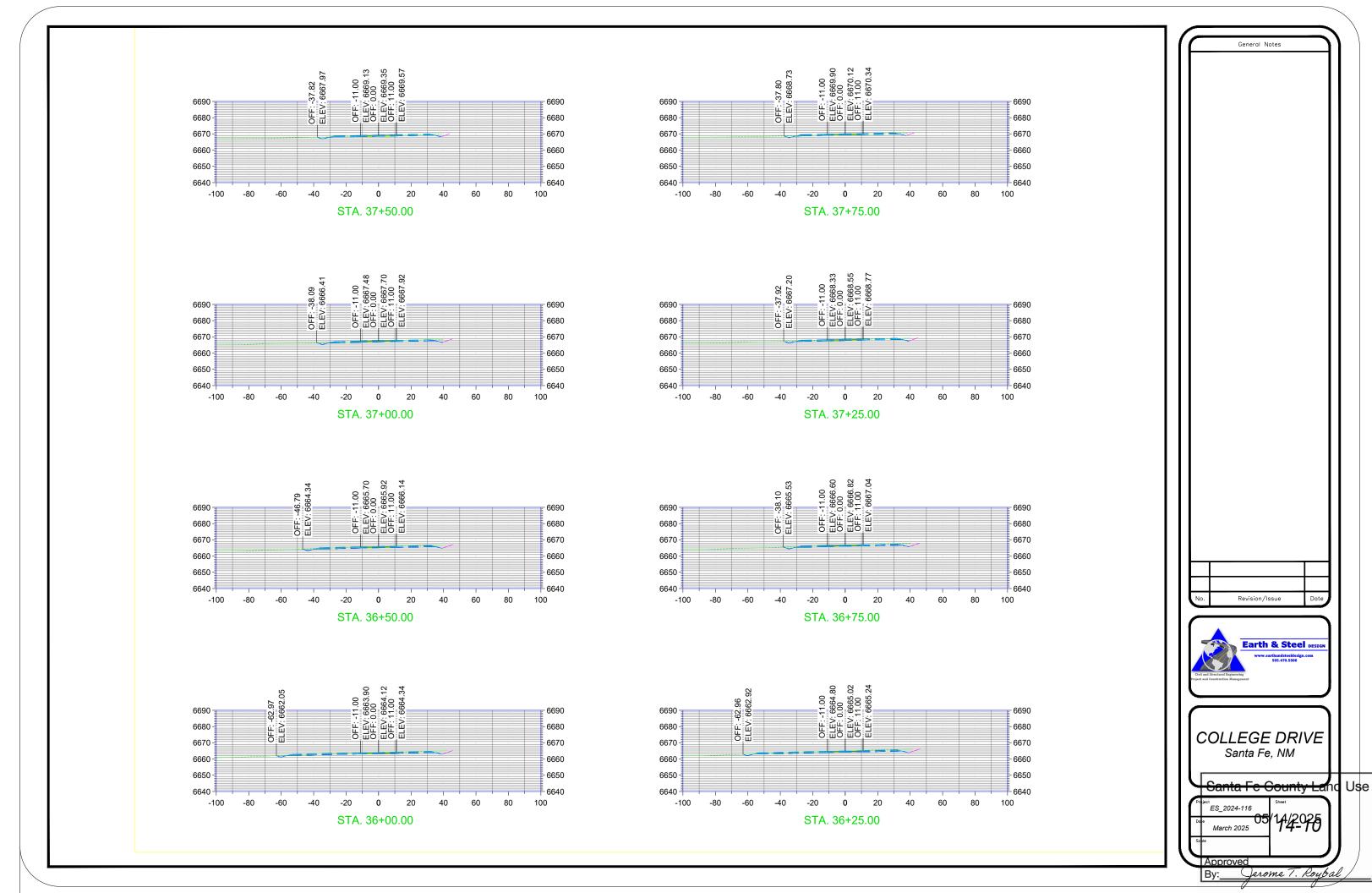


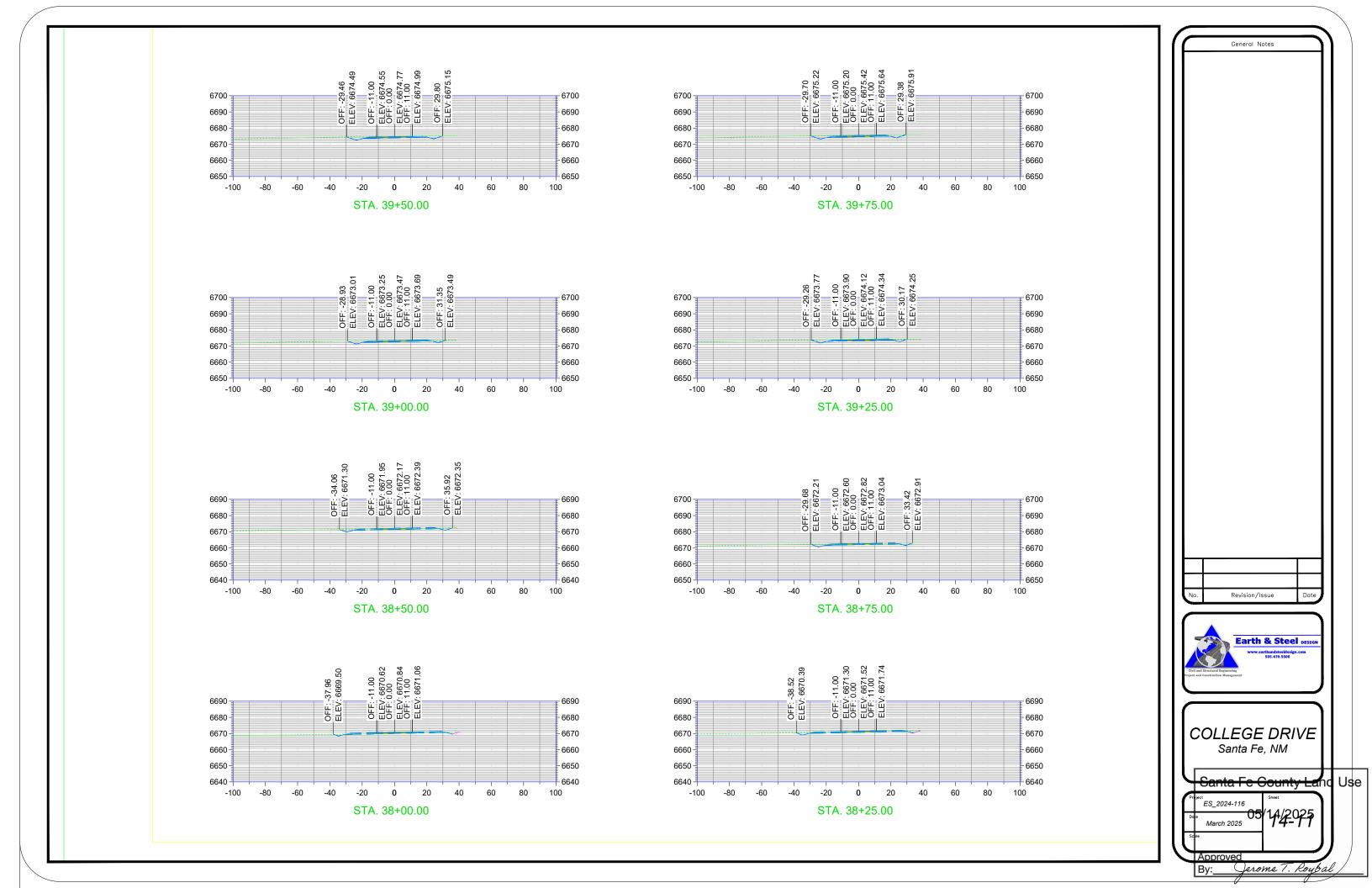


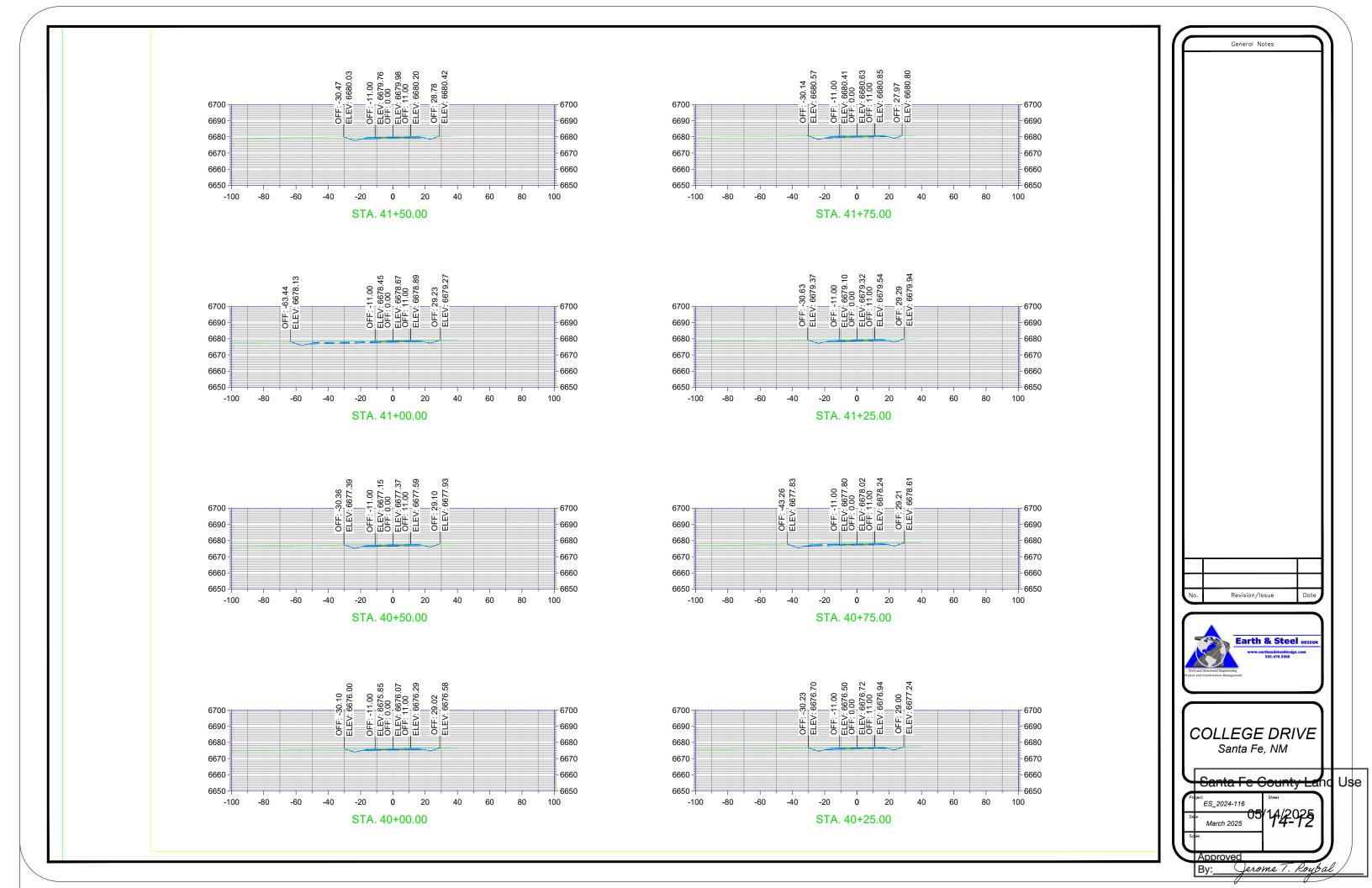
d Use

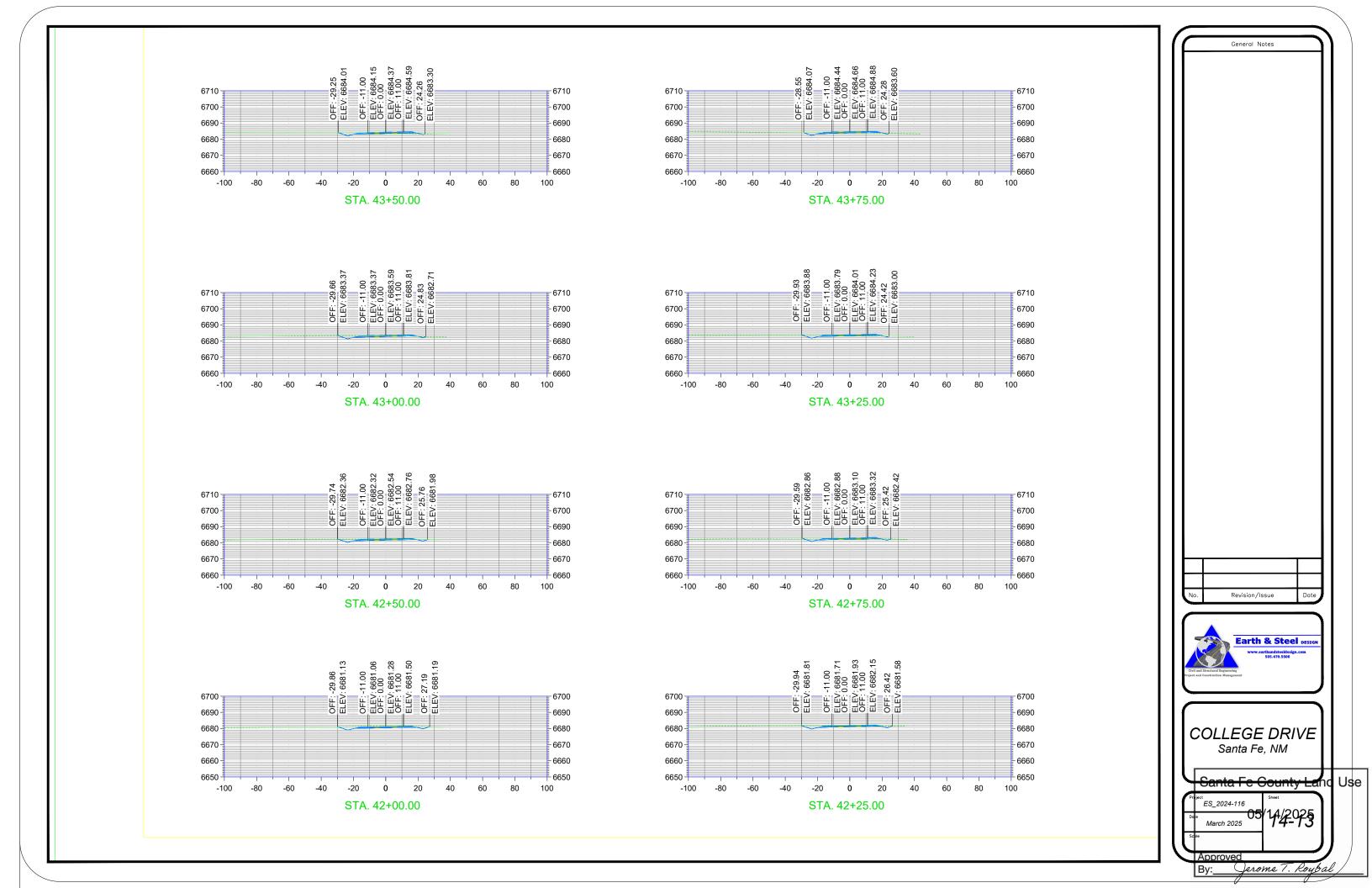


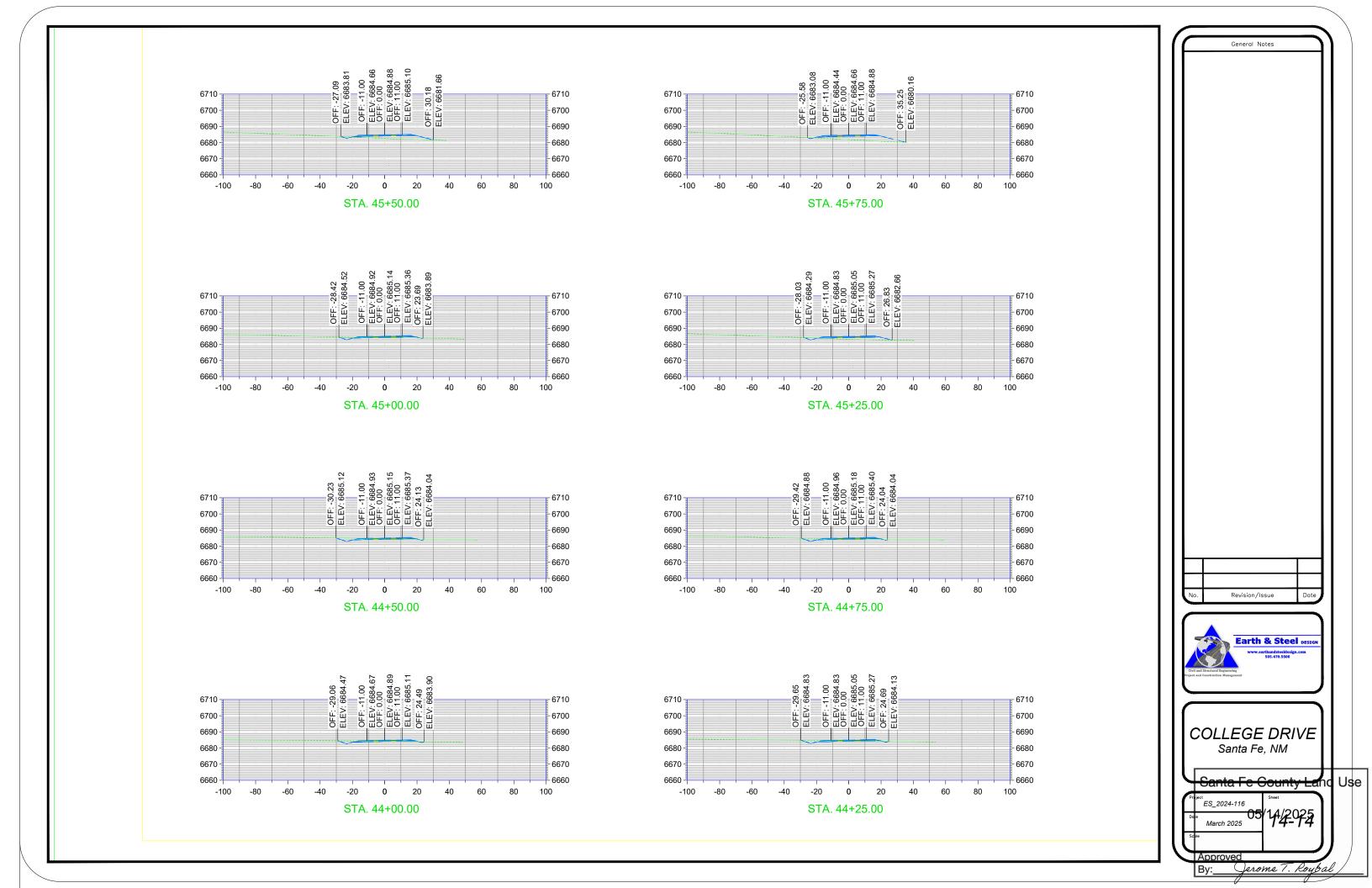


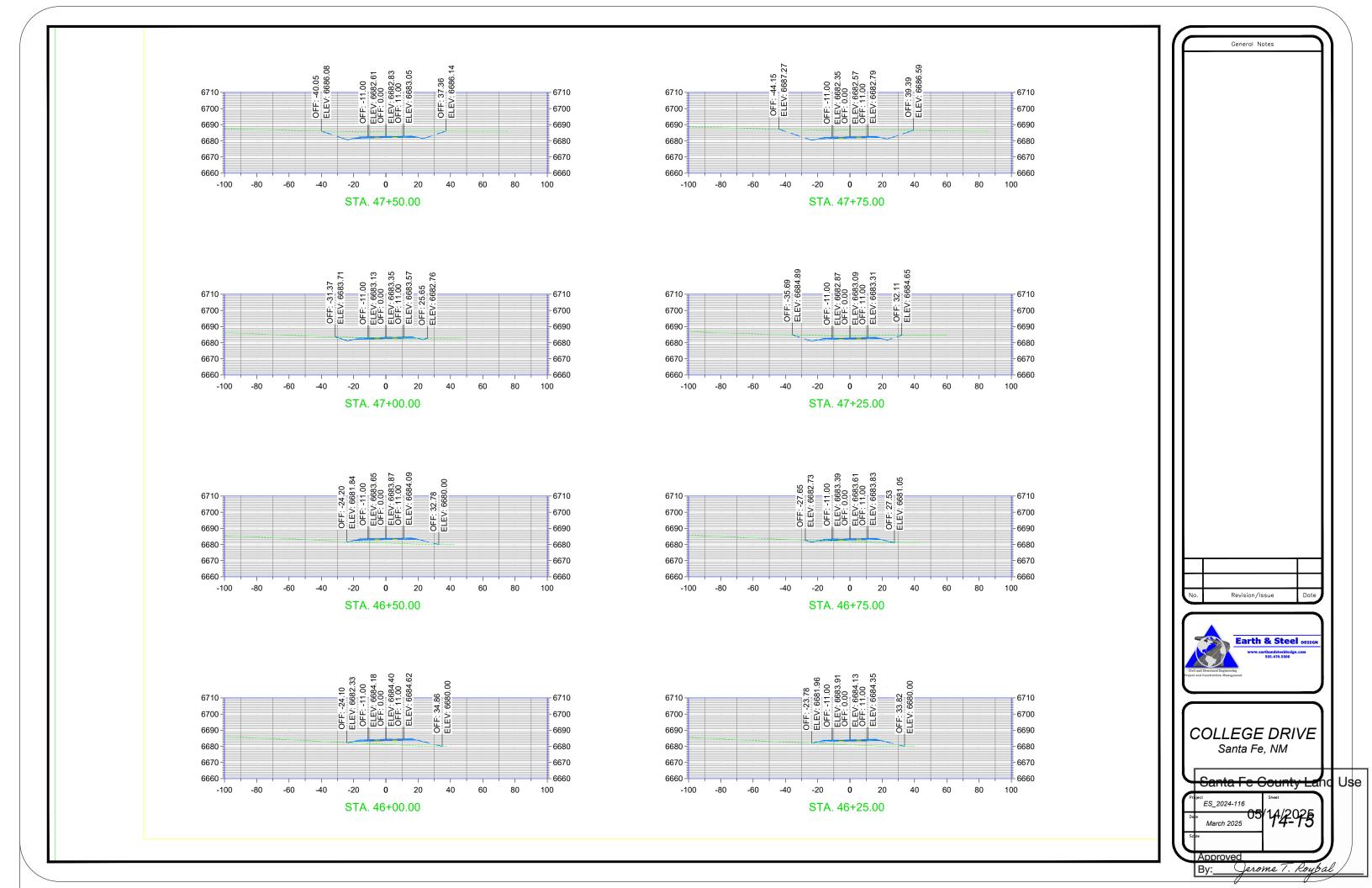


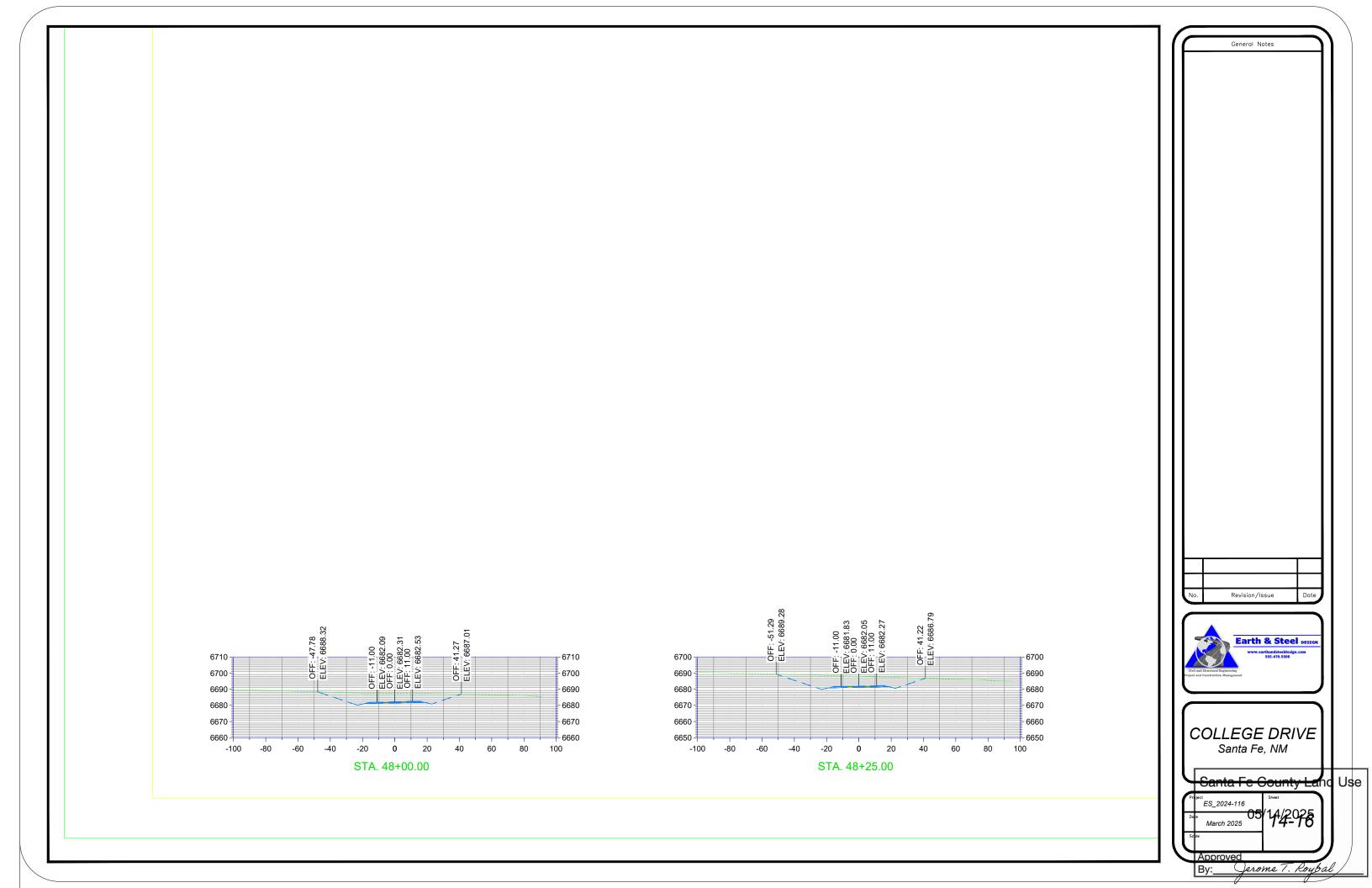


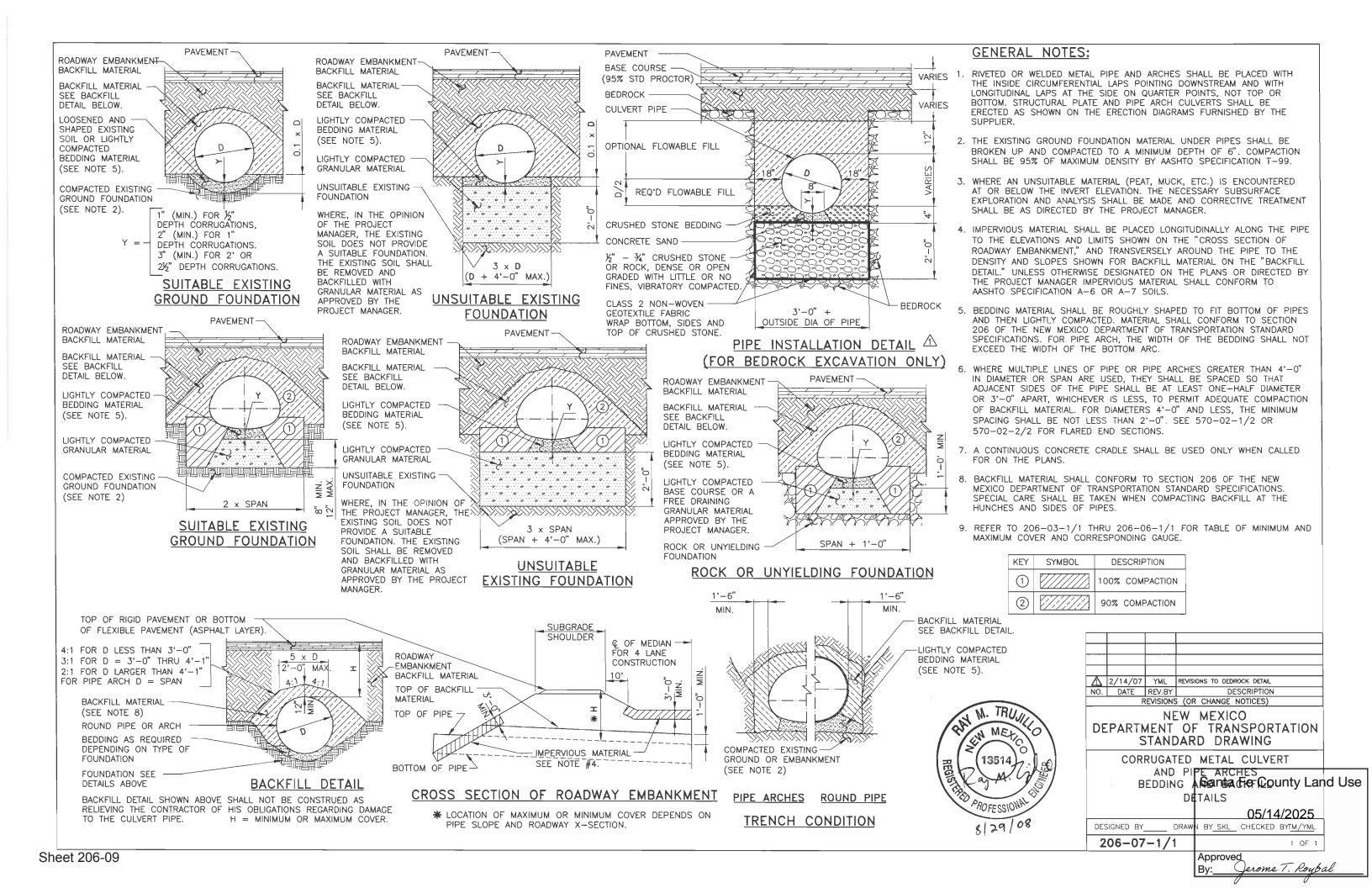


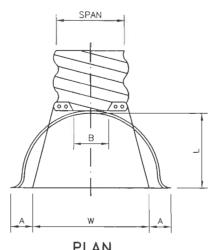








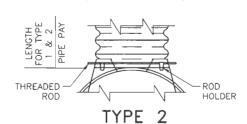




PLAN
REINFORCED
* TOE PLATE
12" MAX. SPA. CENTER TO CENTER

NOTE: SIZES EQUIVALENT TO THE ABOVE, USING 3" \times 1" CORRUGATIONS, MAY BE USED PROVIDING THAT THEY MEET THE SIZES SHOWN UNDER TABLE 6 OF SERIAL 206-04-1/3 THRU 206-04-3/3.

ELEVATION



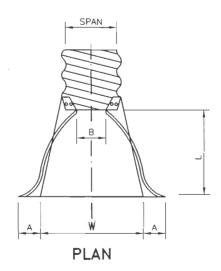
FOR 17" x 13" THRU 57" x 38"

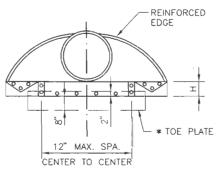
DIMENSIONS PIPE ARCH APPROX SLOPE BODY DIMENSIONS A (IN.) B (IN.) H (IN.) L (IN.) W (IN. SPAN (IN.) RISE (IN.) $(\pm 1")$ (MAX.) $(\pm 1")$ $(\pm 2")$ (± 1½") 17 13 16 19 30 1 PC. 2 1/2:1 21 15 16 10 23 36 PC. 2 1/2:1 24 18 16 12 28 42 2 1/2:1 PC. 28 20 16 14 6 32 48 1 PC. 2 1/2:1 35 24 14 10 16 6 39 60 2 1/2:1 1 PC. 42 29 14 12 18 6 46 75 2 1/2:1 PC. 49 33 12 13 21 9 53 2 PC. 85 2 1/2:1 57 38 18 26 12 63 90 2 1/2:1 2 PC. 64 43 12 30 70 102 2 1/4:1 2 PC. 18 12 71 47 12 18 33 12 77 114 2 1/4:1 3 PC. 77 52 12 18 36 12 77 126 2:1 3 PC. 3 PC. 83 57 12 18 39 12 77 138 2:1

* THE CONTRACTOR SHALL VERIFY WITH PROVIDERS FOR CURRENT INDUSTRY SIZES.

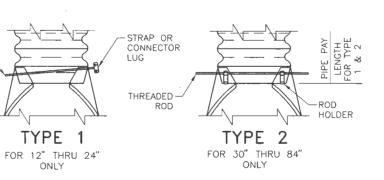
NOTE:

- 1. ALL 3 PIECE BODIES TO HAVE 12 GAUGE THICK SIDES AND 10 GAUGE THICK CENTER PANELS. WIDTH OF CENTER PANELS TO BE GREATER THAN 20% OF THE PIPE PERIPHERY, MULTIPLE PANEL BODIES TO HAVE LAP SEAMS WHICH ARE TO BE TIGHTLY JOINED BY 3/8" GALVANIZED RIVETS OR BOLTS.
- 1 2. FOR 77" X 52" AND 83" X 57" SIZES, REINFORCED EDGED TO BE SUPPLEMENTED BY L 2" X 2" X 1/4" GALVANIZED ANGLES. THE ANGLES TO BE ATTACHED BY 3/8" GALVANIZED NUTS AND
 - 3. ANGLE REINFORCEMENT WILL BE PLACED UNDER THE CENTER PANEL SEAMS ON THE 77" X 52" AND 83" X 57" SIZES.
- * 4. TOE PLATE TO BE CONSTRUCTED WHERE SHOWN ON PLANS





ELEVATION



STANDARD CONNECTIONS

STANDARD END SECTIONS FOR ROUND STEEL PIPE

DIMENSIONS ROUND PIPE BODY DIMENSIONS A (IN.) B (IN.) H (IN.) L (IN.) W (IN.) APP! SLC (± 1") (MAX.) $(\pm 1")$ (± 1½") $(\pm 2")$ PIPE DIA. (IN.) 16 2 1/2:1 1 PC. 12 21 24 30 2 1/2:1 1 PC. 15 16 26 18 16 10 36 2 1/2:1 1 PC. 42 2 1/2:1 1 PC. 21 16 12 36 2 1/2:1 1 PC. 24 16 10 13 6 41 48 2 1/2:1 1 PC. 30 14 12 16 8 51 60 2 1/2:1 2 PC. 9 36 14 14 19 60 72 42 12 16 22 11 69 84 2 1/2:1 2 PC. 2 1/4:1 2 PC. 48 12 18 27 12 78 90 54 12 18 30 12 102 2:1 2 PC. 12 18 33 12 87 114 1 3/4:1 3 PC. 60 66 12 18 36 12 87 120 1 1/2:1 3 PC. 72 12 18 39 87 126 1 1/3:1 3 PC. 12 1 1/4:1 3 PC. 78 12 18 42 12 87 132 1 1/16:1 3 PC. 12 18 87 138 84 45 12

* THE CONTRACTOR SHALL VERIFY WITH PROVIDERS FOR CURRENT INDUSTRY SIZES.

NOTE:

- 1. ALL 3 PIECE BODIES TO HAVE 12 GAUGE THICK SIDES AND 10 GAUGE CENTER PANELS. WIDTH OF CENTER PANELS TO BE GREATER THAN 20% OF THE PIPE PERIPHERY. MULTIPLE PANEL BODIES TO HAVE LAP SEAMS WHICH ARE TO BE TIGHTLY JOINED BY 3/8" Ø GALVANIZED RIVETS OR BOLTS. 3
- 2. FOR 60" THRU 84" SIZES, REINFORCED EDGES TO BE SUPPLEMENTED WITH GALVANIZED STIFFENER ANGLES. THE ANGLES WILL BE L 2" X 2" X 1/4" FOR 60" THRU 78" DIAMETER AND L 2 1/2" X 2 1/2" X 1/4" FOR 78" AND 84" DIAMETER. THE ANGLES TO BE ATTACHED BY 3/8" GALVANIZED NUTS AND BOLTS.
- * 3. TOE PLATE TO BE CONSTRUCTED WHERE SHOWN ON PLANS.

570-02-1/

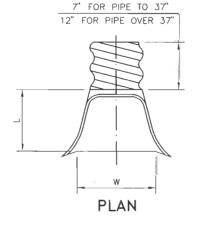
STANDARD CONNECTION

STANDARD END SECTIONS FOR PIPE-ARCH STEEL PIPE

GENERAL NOTES

1. FOR MULTIPLE INSTALLATION OF ALL TYPES, A MIN. OF A 2'-0" SPACING MEASURED ALONG THE HORIZONTAL BETWEEN FLARED END SECTIONS AT THEIR WIDEST CROSS SECTION SHALL BE USED.

- 2. WELDING WILL NOT BE PERMITTED IN CONNECTING END SECTIONS TO CONNECTOR SECTIONS OR CONNECTOR SECTIONS TO PIPE.
- 3. TYPE 1 AND TYPE 2 MAY BE USED WITH WELDED SEAM OR LOCKSEAM CONNECTIONS HELICALLY CORRUGATED PIPE WITH REPOLLED ENDS. REPOLLED ENDS SHALL INCLUDE A MINIMUM OF TWO ANNULAR CORRUGATIONS OF THE SAME SIZE AS THE PIPE CORRUGATIONS.



PIPE	APRONS		
DIAM. (IN.)	L (IN.)	W (IN.)	
18	19	30	
21	23	36	
24	28	42	
30	31.5	48	
36	38.5	60	
42	47	75	
48	54	85	
60	63	96	
66	70	112	
72	77	128	

CORRUGATED ALUMINUM PIPE END SECTION

THREADED



3	2/10/09	YML	CORRECTED 0.6 GA. TO 3/8° Ø	
2	2/10/09	YML	MADE GENERAL REVISIONS	
1	2/10/09	YML	CORRECTED 83" x 35" TO 83" x 57"	
NO.	DATE	REV.BY	DESCRIPTION	
	F	EVISIONS	(OR CHANGE NOTICES)	
		NE	EW MEXICO	
DE		MENT	OF TRANSPORTATION DARD DRAWING	
		CI	ULVERT PIPE	
		EN	PSanta Per County Land ((METAL)	Jse
DES	SIGNED BY		05/14/2025 DRAWN BY_SKL_CHECKED BYTM/YML	

Approved Jerome T. Roybal

1 of 2

