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GENERAL CONSTRUCTION NOTES:

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT BEXAR COUNTY STANDARD SPECIFICATIONS FOR CONSTRUCTION.

2. NO EXTRA PAYMENT SHALL BE ALLOWED FOR WORK CALLED FOR IN THE PLANS, BUT NOT INCLUDED IN THE BID PROPOSAL. THIS INCIDENTAL WORK WILL BE REQUIRED AND SHALL BE INCLUDED IN THE PAY ITEM TO WHICH IT RELATES.

3. THE CONTRACTOR SHALL PROVIDE ACCESS FOR THE DELIVERY OF MAIL BY THE U.S. POSTAL SERVICE.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION ANY DAMAGE DONE TO EXISTING FENCES, CONCRETE ISLANDS, STREET PAVING, CURBS, SHRUBS, BUSHES OR DRIVEWAYS. (NO SEPARATE PAY ITEM.)

5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL SIGNS AND BARRICADES ARE PROPERLY INSTALLED AND MAINTAINED. ALL LOCATIONS AND DISTANCES WILL BE DECIDED UPON IN THE FIELD BY THE CONTRACTOR, USING THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE CITY'S CONSTRUCTION INSPECTOR AND TRAFFIC ENGINEERING IN THE OPINION OF THE TRAFFIC ENGINEERING REPRESENTATIVE WILL ONLY BE RESPONSIBLE TO INSPECT BARRICADES AND SIGNS. IF, IN THE OPINION OF THE TRAFFIC ENGINEERING REPRESENTATIVE AND THE CONSTRUCTION INSPECTOR, THE BARRICADES DO NOT CONFORM TO ESTABLISHED STANDARDS OR PUBLIC, THE CONSTRUCTION INSPECTOR SHALL HAVE THE OPTION TO STOP OPERATIONS UNTIL SUCH TIME AS THE CONDITIONS ARE CORRECTED.

6. IF THE NEED ARISES, ADDITIONAL BARRICADES AND DIRECTIONAL DEVICES MAY BE ORDERED BY THE TRAFFIC ENGINEERING REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.

7. DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.171 C.P.S. MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.

8. CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR TWENTY FOR (24) HOURS PRIOR TO BACKFILL OF ANY UTILITY TRENCHES TO SCHEDULE FOR DENSITY TEST AS REQUIRED.

9. CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES, MARKS, ETC. IF ANY ARE DESTROYED OR REMOVED BY THE CONTRACTOR OR HIS EMPLOYEES, THEY SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

10. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF EXISTING UTILITIES. CONTRACTOR SHALL NOTIFY THE FOLLOWING AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO EXCAVATION OPERATION:

- EAST CENTRAL SPECIAL UTILITY DISTRICT (EAST CENTRAL SUD) (210) 649-2383
- TEXAS STATE WIDE ONE CALL LOCATOR (210)-357-5741 (210)-844-5377
- CITY PUBLIC SERVICE ENERGY
- TIME WARNER
- AT&T
- MCI

11. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED, BUT SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE STARTING WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO AND FOR THE MAINTENANCE AND PROTECTION OF THE EXISTING UTILITIES EVEN IF THEY ARE NOT SHOWN ON THE PLANS. LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN HERE ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND HE SHALL BE RESPONSIBLE FOR PROTECTION OF SAME DURING CONSTRUCTION.

12. ALL WASTE MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE HIS SOLE RESPONSIBILITY TO DISPOSE OF THIS MATERIAL OFF THE LIMITS OF THE PROJECT. NO WASTE MATERIAL SHALL BE PLACED IN EXISTING LOWS THAT WILL BLOCK OR ALTER FLOW LIMITS OF EXISTING ARTIFICIAL OR NATURAL DRAINAGE.

13. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIAL IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN DEVELOPMENT PERMIT.

14. THE CONTRACTOR SHALL MAINTAIN ALL ADJOINING STREETS AND TRAVELLED ROUTES FREE FROM SPILLED AND/OR TRACKED CONSTRUCTION MATERIALS AND/OR DEBRIS.

GENERAL GRADING & DRAINAGE NOTES:

1. ALL GRADES AND CONTOURS SHOWN ARE FINAL. TOP OF FINISHED SURFACE ELEVATIONS, CONTRACTOR SHALL SUBTRACT PAVEMENT, BASE, TOPSOIL, MULCH, ...ETC. TO OBTAIN PROPER SUBGRADE ELEVATIONS.

2. POSITIVE DRAINAGE SHALL BE MAINTAINED ON ALL AREAS WITHIN THE SCOPE OF THIS PROJECT. DRAINAGE SHALL BE DIRECTED AWAY FROM ALL BUILDING FOUNDATIONS. CONTRACTOR SHOULD TAKE PRECAUTIONS NO TO ALLOW ANY PONDING OF WATER. MINIMUM SLOPE 0.50%.

3. NO ABRUPT CHANGE OF GRADE SHALL OCCUR.

4. ALL DISTURBED AREAS SHALL BE REVEGETATED, BY THE CONTRACTOR, IN ACCORDANCE WITH PROJECT SPECIFICATIONS, AND LANDSCAPE ARCHITECTURAL PLANS.

5. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLAN OR NOT. THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY SIZE, GRADE, AND LOCATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS FROM PLANS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.

6. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT WHERE NOT SPECIFICALLY COVERED IN THE PROJECT SPECIFICATIONS SHALL CONFORM TO ALL APPLICABLE CITY OF ST. HEDWIG SPECIFICATIONS FOR CONSTRUCTION, TxDOT STANDARD SPECIFICATIONS, AND/OR BEXAR COUNTY PUBLIC WORKS STANDARD SPECIFICATIONS.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH NECESSARY UTILITY COMPANIES FOR PROVIDING TEMPORARY UTILITY SERVICES DURING CONSTRUCTION.

8. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS, OF DIMENSIONS OR GRADINGS NECESSARY FOR CONSTRUCTION OF THIS PROJECT.

9. THE CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT AT NEW PAVEMENT AND CURB JUNCTURES. NO JAGGED OR IRREGULAR CUTS IN PAVEMENT WILL BE ACCEPTED.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.

11. ALL EXCAVATION IS UNCLASSIFIED.

12. ALL ON-SITE CURBS ARE RIBBON CURBS UNLESS OTHERWISE SPECIFIED. (CURBS WITHIN R.O.W. SHALL BE INSTALLED PER CITY OF ST. HEDWIG SPECIFICATIONS)

13. SEE CIVIL COVER SHEET FOR PROJECT BENCHMARK.

14. CONTRACTOR TO RAISE/LOWER ALL UTILITY BOXES, COVERS, GRATES, VALVES BOXES, MANHOLES, CLEANOUTS, ETC., TO MATCH PROPOSED FINISHED GRADE ELEVATIONS.

15. ALL DISTURBED AREAS WHICH ARE NOT TO BE PAVED SHALL BE COVERED WITH 6" MIN. CLEAN TOPSOIL UNLESS OTHERWISE NOTED. CUT OR FILL SHALL BE ADJUSTED TO ALLOW FOR TOPSOIL. IN ORDER TO MAINTAIN PROPOSED ELEVATIONS. AREAS FOR LANDSCAPING SHOULD BE IN ACCORDANCE WITH THE LANDSCAPE ARCHITECTS PLANS.

16. PROVIDE THE REQUIRED MINIMUM DENSITY AND MOISTURE CONTENT OF COMPACTED FILL IN ACCORDANCE WITH THE SOILS REPORT AND THE REQUIREMENTS OF THE PROFESSIONAL ENGINEER (GEOTECH AND CIVIL).

ACCESSIBILITY REQUIREMENTS

ACCESSABILITY REQUIREMENTS

1. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS AT ALL TIMES TO LOCAL RESIDENCES AND BUSINESSES.

2. WHEN THE WORK REQUIRES THE EXCAVATION OF THE STREET AND THE REMOVAL OF THE EXISTING DRIVEWAY APPROACHES AND SIDEWALKS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY ALL-WEATHER ACCESS TO THE BUSINESSES AND RESIDENCES. THE TEMPORARY DRIVEWAY APPROACHES SHALL BE CONSTRUCTED WITH FLEXIBLE BASE OR GRAVEL MATERIAL AT NO SEPARATE COST TO THE CITY.

3. PRIOR TO INITIATING THE CONSTRUCTION OF NEW DRIVEWAY APPROACHES, CONTRACTOR SHALL GIVE ADVANCE WARNING IN PERSON, OR IN WRITING, OF AT LEAST 48 HOURS TO EACH RESIDENCE THAT WILL BE IMMEDIATELY AFFECTED, SO THAT ALTERNATE PLANS MAY BE MADE BY THE RESIDENTS.

4. FOR BUSINESSES WITH MORE THAN ONE DRIVEWAY, AT LEAST ONE DRIVEWAY SHALL REMAIN OPEN WHILE THE OTHER NEW DRIVEWAY APPROACHES ARE CONSTRUCTED. FOR BUSINESSES WITH ONLY ONE DRIVEWAY, THE NEW DRIVEWAY APPROACH SHALL BE CONSTRUCTED IN HALF WIDTHS, UNLESS A TEMPORARY ASPHALT DRIVEWAY IS FIRST INSTALLED AT NO SEPARATE COST TO THE CITY.

GENERAL UTILITY NOTES:

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL COMPLY TO ALL APPLICABLE CITY OF ST. HEDWIG RULES AND REQUIREMENTS FOR STREETS, SIDEWALKS, ALLEYS AND ROADWAY DESIGN (LATEST EDITIONS), THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (LATEST EDITIONS), THE EAST CENTRAL SPECIAL UTILITY DISTRICT (EAST CENTRAL SUD) SPECIFICATIONS FOR WATER WORKS CONSTRUCTION (LATEST EDITION).

2. THE LOCATIONS AND DEPTHS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS OF UTILITIES MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY CONFLICTS IMMEDIATELY. ANY DAMAGE BY THE CONTRACTOR TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OF NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.

4. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE SYSTEMS WHETHER SHOWN ON PLANS OR NOT.

5. ALL UTILITIES SHALL BE INSTALLED PRIOR TO PAVEMENT CONSTRUCTION.

6. ALL UTILITY CONNECTIONS SHALL BE COORDINATED WITH THE MECHANICAL AND ELECTRICAL PLANS. NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION.

7. THE CONTRACTOR SHALL INSTALL ANY BENDS, FITTINGS, ETC. IN THE WATER & SEWER MAIN AS REQUIRED TO AVOID CONFLICTS WITH OTHER UTILITIES. (NO SEPARATE PAY).

8. NO WATER JETTING TO BACKFILL TRENCHES WILL BE ALLOWED ON THIS PROJECT.

9. POLYVINYL CHLORIDE (PVC) SEWER PIPE SHALL BE SDR 26. FITTINGS AND JOINTS SHALL CONFORM TO COMPATIBLE SDR 26 PIPE. SOLVENT CEMENTS JOINTS SHALL NOT BE USED.

10. WHEN SEWER LINES ARE INSTALLED IN THE VICINITY OF WATER MAINS, SUCH INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCQ).

11. DUE TO FEDERAL REGULATION TITLE 49, PART 192.181, CITY PUBLIC SERVICE ENERGY (CPS) MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.

12. ALL SPOIL AND OTHER UNSUITABLE MATERIAL FROM THIS WORK SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR, AT HIS EXPENSE.

13. SANITARY SEWER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE AND THE EAST CENTRAL SPECIAL UTILITY DISTRICT PLUMBING SPECIFICATIONS, AND AS DIRECTED BY THE PLUMBING INSPECTOR.

14. THRUST BLOCKING SHALL BE INSTALLED IN ACCORDANCE WITH EAST CENTRAL SPECIAL UTILITY DISTRICT SPECIFICATIONS.

15. UTILITY CONTRACTOR SHALL COORDINATE WITH CPS ENERGY FOR THE GAS AND ELECTRICAL SERVICE.

16. CONTRACTOR SHALL MAINTAIN "AS-BUILT" DRAWINGS THROUGHOUT THE COURSE OF CONSTRUCTION & SHALL SUBMIT SAME TO THE ENGINEER FOR APPROVAL PRIOR TO FINAL ACCEPTANCE BY OWNER.

SUPPLEMENTARY & ADDITIONAL WATER NOTES:

1. NO EXTRA-PAYMENT SHALL BE ALLOWED FOR WORK CALLED FOR ON THE PLANS BUT NOT INCLUDED ON THE BID SCHEDULE. THIS INCIDENTAL WORK WILL BE REQUIRED AND SHALL BE INCLUDED UNDER THE PAY ITEM TO WHICH IT RELATES.

2. THE DEVELOPER DEDICATES THE WATER MAINS UPON COMPLETION BY THE DEVELOPER AND ACCEPTANCE BY THE EAST CENTRAL SUD. THE EAST CENTRAL SUD WILL OWN AND MAINTAIN SAID WATER MAINS WHICH ARE LOCATED WITHIN THIS PARTICULAR SUBDIVISION. (AS APPLICABLE)

3. CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

4. WORK COMPLETED BY THE CONTRACTOR WHICH HAS NOT RECEIVED A WORK ORDER OR THE NOTICE TO PROCEED WITH THE EAST CENTRAL SUD CONSTRUCTION INSPECTION DIVISION WILL BE SUBJECT TO REMOVAL AND REPLACEMENT BY AND AT THE EXPENSE OF THE CONTRACTOR.

5. THE CONTRACTOR WILL KEEP THE AREA ON TOP OF AND AROUND THE WATER METER BOX FREE OF ALL OBJECTS AND DEBRIS.

6. WATER SYSTEM TO BE COMPLETELY RESTRAINED. RESTRAINED LENGTH CALCULATIONS ARE FOR P.V.C. PIPE BEDDED IN COMPACTED GRANULAR MATERIAL EXTENDING TO THE TOP OF THE PIPE. THE NATIVE SOIL MATERIAL IS ASSUMED TO BE INORGANIC CLAY OF HIGH PLASTICITY. DEPTH OF BURY IS ASSUMED TO BE 4 FEET.

THESE CALCULATIONS ARE PROVIDED FOR REFERENCE. THE RESTRAINED LENGTHS SHALL BE DESIGNED BASED UPON THE CONDITIONS ENCOUNTERED DURING THE INSTALLATION. SEE EAST CENTRAL SUD SPECIFICATION BOOK.

ADDITIONAL WATER NOTES:

1. ALL VALVES SHALL READ "OPEN RIGHT".

2. LEAD FREE FIRE HYDRANTS:
EAST CENTRAL SUD REQUIRES GCPs AND COUNTER PERMITS TO USE LEAD FREE (< 0.25% LEAD) FIRE HYDRANTS.*

3. 98% COMPACTION NOTE:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING 98% COMPACTION ON ALL TRENCH BACKFILL AND FOR PAYING FOR THE TESTS TO BE PERFORMED BY A THIRD PARTY. COMPACTION TESTS WILL BE DONE AT ONE LOCATION POINT RANDOMLY SELECTED, OR AS INDICATED BY THE EAST CENTRAL SUD INSPECTOR/TEST ADMINISTRATOR, PER EACH 12-INCH LOOSE LIFT PER 400 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED AND FINALIZED BY EAST CENTRAL SUD WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.

4. PIPE DISINFECTION WITH DRY HTH FOR PROJECTS LESS THAN 800 LINEAR FEET. (ITEM #847)
MAINS SHALL BE DISINFECTED WITH DRY HTH WHERE SHOWN IN THE CONTRACT DOCUMENTS OR AS DIRECTED BY THE INSPECTOR, AND SHALL NOT EXCEED A TOTAL LENGTH OF 800 FEET. THIS METHOD OF DISINFECTION WILL ALSO BE FOLLOWED FOR MAIN REPAIRS. THE CONTRACTOR SHALL UTILIZE ALL APPROPRIATE SAFETY MEASURE TO PROTECT HIS PERSONNEL DURING DISINFECTION OPERATIONS.

5. SPILLS, OVERFLOWS, OR DISCHARGES OF WASTEWATER:
ATTENTION CONTRACTORS: ALL SPILLS, OVERFLOWS, OR DISCHARGES OF WASTEWATER, RECYCLED WATER, PETROLEUM PRODUCTS, OR CHEMICALS MUST BE REPORTED IMMEDIATELY TO THE EAST CENTRAL SUD INSPECTOR ASSIGNED TO YOUR COUNTER PERMIT OR GENERAL CONSTRUCTION PERMIT (GCP). THIS REQUIREMENT APPLIES TO EVERY SPILL, OVERFLOW, OR DISCHARGE - REGARDLESS OF SIZE. YOUR COMPLIANCE WILL ENABLE EAST CENTRAL SUD TO FULFILL REGULATORY REPORTING REQUIREMENTS.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTROL SEWER FLOWS SO THAT A SPILL OVERFLOW, OR DISCHARGE DOES NOT OCCUR. IN THE EVENT THAT A SPILL, OVERFLOW, OR DISCHARGE OCCURS, THE CONTRACTOR MAY LIABLE FOR:

6. ALL FINES, PENALTIES, OR OTHER COSTS ASSESSED TO OR AGAINST EAST CENTRAL SUD BY ANY STATE, FEDERAL, OR OTHER GOVERNMENTAL AGENCY.

7. EAST CENTRAL SUD STAFF AND MATERIAL COSTS TO RESPOND TO THE SPILL, OVERFLOW, OR DISCHARGE, OR TO MITIGATE THE EFFECTS OF THE SPILL, OVERFLOW, OR DISCHARGE, OR TO SUPPORT THE CLEANUP EFFORT.

8. ALL DAMAGES CAUSED TO EAST CENTRAL SUD, OR ANY OTHER PERSONS OR ENTITIES THAT RESULT FROM THE SPILL, OVERFLOW OR DISCHARGE.

9. BACK FLOW PREVENTION DEVICES FOR RESIDENTIAL SUBDIVISIONS:
ALL IRRIGATION SERVICES WITHIN RESIDENTIAL AREAS ARE REQUIRED TO HAVE BACK FLOW PREVENTION DEVICES.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATIONS SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

ABBREVIATIONS:	
NOTE: SOME ABBREVIATIONS LISTED BELOW ARE NOT USED IN THIS PLAN SET.	
AC	ACRE
APPROX	APPROXIMATELY
ASPH	ASPHALT
BFP	BACK FLOW PREVENTOR
BGN	BEGIN
BLDG	BUILDING
BCK	BACK OF CURB
BVCE	VERTICAL TANGENT CURVE
BVCS	INTERSECT TANGENT CURVE
CO	INTERSECT STATION
CONC	CONCRETE
COWZ	CUTTING WATER QUALITY ZONE
DCOV	DOUBLE CHECK DETECTOR
DI	DIAMETER
DIA	DIAMETER
E	EASTING
ELEV	ELEVATION
EOP	EDGE OF PAVEMENT
ESC	EROSION & SEDIMENTATION
EXST / EX	EXISTING
FD	FILTER DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FF / FFE	FINISHED FLOOR ELEVATION
FH	FINISHED GRADE
FL	FIRE HYDRANT
FL	FLOW LINE
FM	FORCE MAIN
FND	FOUND
FO	FIBER OPTIC
FOC	FACE OF CURB
FP	FLOOD PLAIN
G	GUTTER
GRND	GROUND
GW	GATE VALVE
HDP	HIGH-DENSITY POLYETHYLENE
HORIZ	HORIZONTAL
HP	HIGH POINT
HT	HEIGHT
INFO	INFORMATION
IR	IRON ROD
JR	JUNCTION
LAT	LATERAL
LF	LINEAR FEET
LOC	LIMITS OF CONSTRUCTION
LOW	LOW POINT
LT	LEFT
LUP	LAND USE PLAN
M	MANHOLE ELECTRICAL &
MUP	PLUMBING
MH	MANHOLE
MIN	MINIMUM
N	NORTHING
NO	NUMBER
NTS / N.T.S.	NOT TO SCALE
O/S	ON CENTER
OU	OFFSET
P	OVERHEAD UTILITY
PC	PIPELINE
PCC	TANGENT - CURB INTERSECTION
PG	POINT OF CURB INTERSECT
PI	PAGE
POB	TANGENT - TANGENT
PROP	INTERSECTION
PT	POINT OF BEGINNING
PVC	PROPOSED
PWT	CURVE - TANGENT
R	INTERSECTION
RB	POLYVINYL CHLORIDE
RCP	PAVEMENT
REF	RADIUS
RIM	ROCK BERM
RPZ	REINFORCED CONCRETE PIPE
RSV	REFERENCE
RT / STM	TOP OF MANHOLE LID
SE	ELEVATION
SH	REDUCED PRESSURE ZONE
SHTS	R.O.W. - RIGHT OF WAY
SQ. FT.	RESIDENT SEAT GATE VALVE
STA	RIGHT
T	STORM DRAIN
TEB	SILT FENCE
TC	SHEET
TD	TEMPORARY BENCHMARK
TE	TOP OF CURB
TF	TIME OF CONCENTRATION
TH	TOP OF MEDIA
TP	TREE PROTECTION
TOP	TOP OF BANK
TW	TOP OF WALL
TYP	TYPICAL
UE	UNDERGROUND ELECTRIC
UNK	UNKNOWN
UT	UNDERGROUND TELEPHONE
VERT	VERTICAL
VL	VOLUME
W	WATER
WL	WATER LINE
WM	WITH
WM	WATER METER
WQIZ	WATER QUALITY TRANSITION
WSE	ZONE
WV	WATER SURFACE ELEVATION
WW	WATER VALVE
YD	WASTEWATER
YR	YARD DRAIN
	YEAR

NOT AUTHORIZED FOR
CONSTRUCTION PRIOR TO
FORMAL CITY APPROVAL

210.960.924

WGI.

wginc.com

755 E. MULBERRY AVE., SUITE 501, SAN ANTONIO, TEXAS 78212

AMANDA SADIVAR

4/12/2024

INITIAL SUBMITTAL

APRIL 12, 2024

KIOLBASSA ESTATES

15490 ST. HEDWIG ROAD

ST. HEDWIG, BEXAR COUNTY, TEXAS 78152

GENERAL NOTES

SHEET

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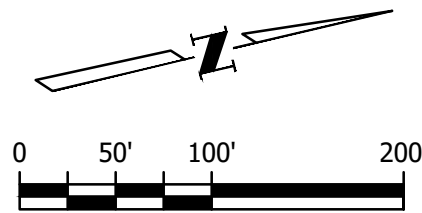
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LEGEND	
	BOUNDARY / R.O.W.
	EASEMENT / SETBACK
	RIBBON CURB
	BUILDING FACE
	CONTOUR
	WATER LINE
	WASTEWATER LINE
	FORCE MAIN
	STORM DRAIN LINE
	OVERHEAD UTILITY
	UNDERGROUND UTILITY
	GAS LINE
	FENCE
	RETAINING WALL
	BENCHMARK
	MAIL BOX
	SIGN
	WATER METER VAULT
	WATER VALVE
	WATER MANHOLE
	WASTEWATER MANHOLE
	POWER POLE
	CLEAN-OUT
	GUY WIRE
	ELEC MANHOLE
	ELEC TRANSFORMER PAD
	AIR CONDITIONER UNIT
	STORM DRAIN INLET
	STORM DRAIN MANHOLE
	TELEPHONE PEDESTAL

- = PUBLIC UTILITY & EMERGENCY ACCESS EASEMENT
 = ELECTRIC EASEMENT

- NOTES:**
- EXISTING CONDITIONS SURVEY PREPARED BY MAESTAS. SURVEY WAS MADE IN APRIL OF 2023.
 - ONLY VISIBLE IMPROVEMENTS & UTILITIES WERE PROVIDED FROM SURVEY (THE SURVEYOR/ENGINEER HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES). LOCATIONS OF EXISTING UTILITIES, SOME OF WHICH MAY NOT BE SHOWN, COULD IMPACT CONSTRUCTION MEANS AND METHODS. CONTRACTOR TO VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO BID & CONSTRUCTION, AND SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES. THE CONTRACTOR TO CONTACT THE OWNER OF EACH INDIVIDUAL UTILITY FOR ASSISTANCE IN DETERMINING EXISTING UTILITY LOCATIONS.
 - THE SIZE AND LOCATION OF UTILITY STRUCTURES, (IF SHOWN), MAY BE EXAGGERATED FOR GRAPHICAL CLARITY. THE SURVEY SHOWS FIELD MEASURED SIZES AND DEPTHS AS OBSERVED FROM GROUND LEVEL OPENINGS.
 - REFERENCE COVER SHEET AND TREE LIST FOR ADDITIONAL INFORMATION.
 - LIMITS OF CONSTRUCTION ARE SHOWN ON THE "EROSION & SEDIMENTATION CONTROL PLAN" SHEET.

CAUTION:
CONTRACTOR TO VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING ALL EXISTING UTILITIES BY CALLING DIGTESS @ 1-800-DIG-TESS FOR LOCATION OF ALL UTILITIES, AT LEAST 2 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.



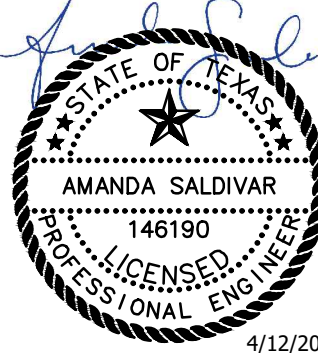
NOT AUTHORIZED FOR
CONSTRUCTION PRIOR TO
FORMAL CITY APPROVAL

FIRM NO. F-15085

210.860.9324



755 E. MULBERRY AVE., SUITE 501, SAN ANTONIO, TEXAS 78212



INITIAL SUBMITTAL
APRIL 12, 2024

KIOLBASSA ESTATES
15490 ST. HEDWIG ROAD
ST. HEDWIG, BEXAR COUNTY, TEXAS 78152

EXISTING CONDITIONS

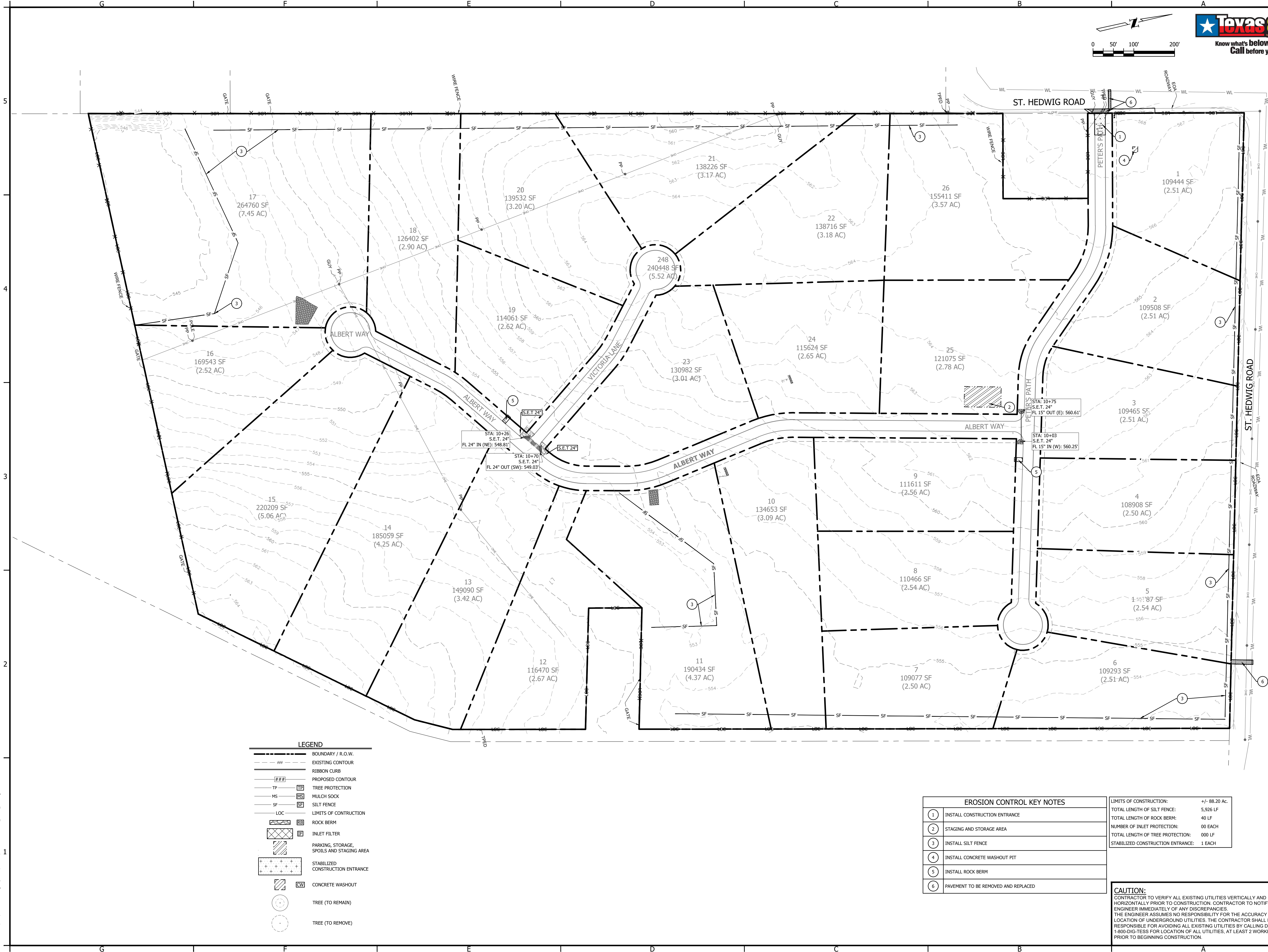
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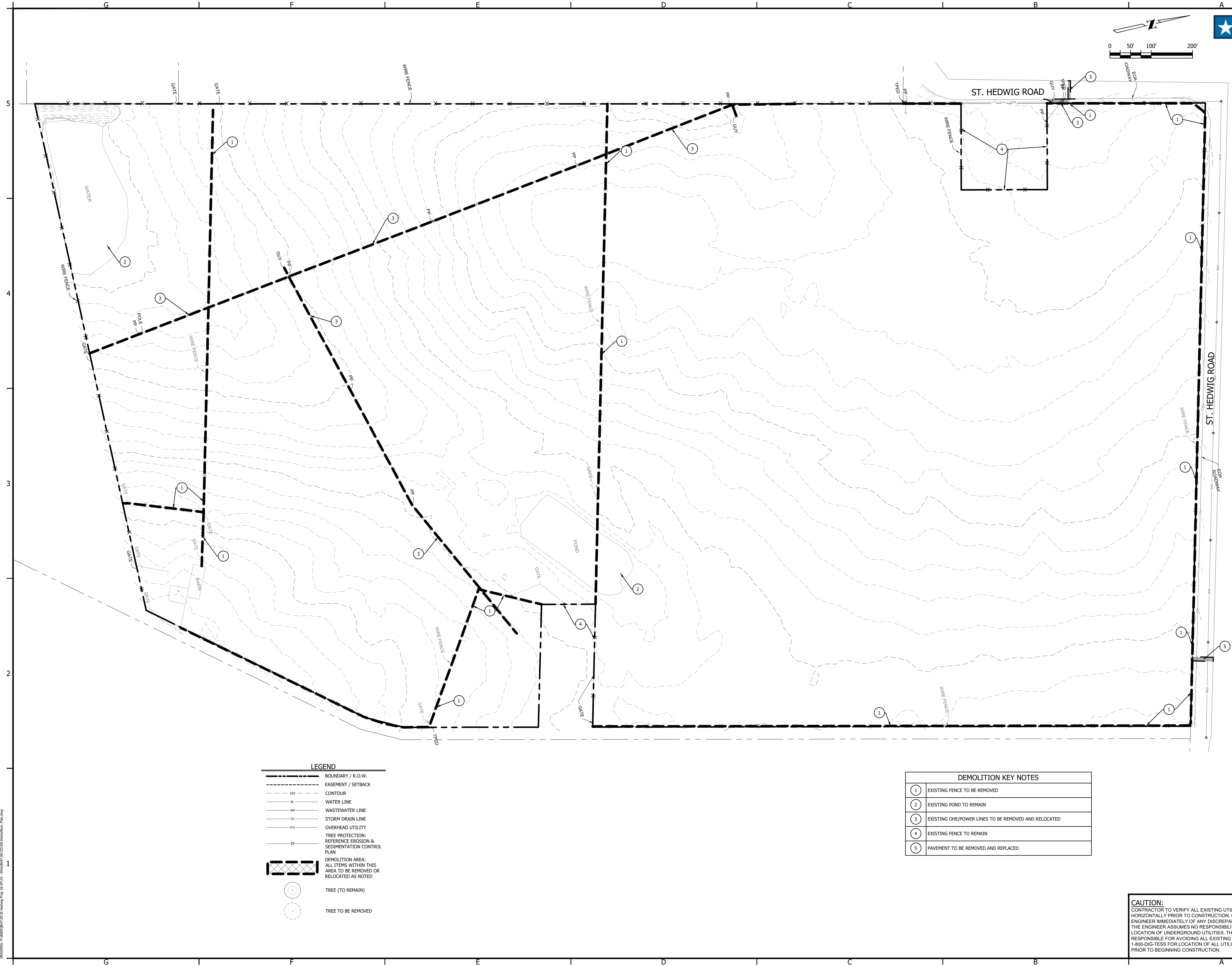
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PLOTTER: HP DesignJet T1100
PLOT DATE: 4/11/2024 11:00 AM
PLOT BY: DAVID GARDNER
DRAWING: 370\DWG\370.DWG



NOT AUTHORIZED FOR
CONSTRUCTION PRIOR TO
FORMAL CITY APPROVAL



INITIAL SUBMITTAL
APRIL 12, 2024

KIOLBASSA ESTATES
15490 ST. HEDWIG ROAD
ST. HEDWIG, BEXAR COUNTY, TEXAS 78152

DEMOLITION PLAN

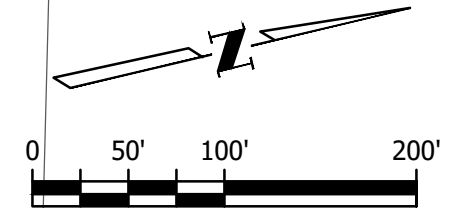
SHEET

CD100

05 OF 28

CAUTION:
CONTRACTOR TO VERIFY ALL EXISTING UTILITIES VERTICALLY AND
HORIZONTALLY PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY THE
ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE
LOCATION OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE
RESPONSIBLE FOR AVOIDING ALL EXISTING UTILITIES BY CALLING DIGTESS @
1-800-DIG-TESS FOR LOCATION OF ALL UTILITIES, AT LEAST 2 WORKING DAYS
PRIOR TO BEGINNING CONSTRUCTION.

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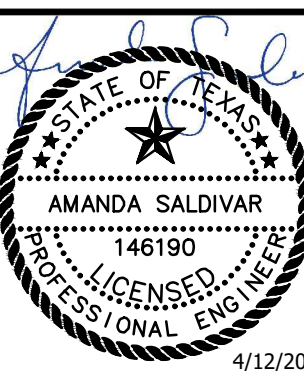


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FORMAL CITY APPROVAL

FIRM NO. F-15085



210.860.9224



INITIAL SUBMITTAL
APRIL 12, 2024

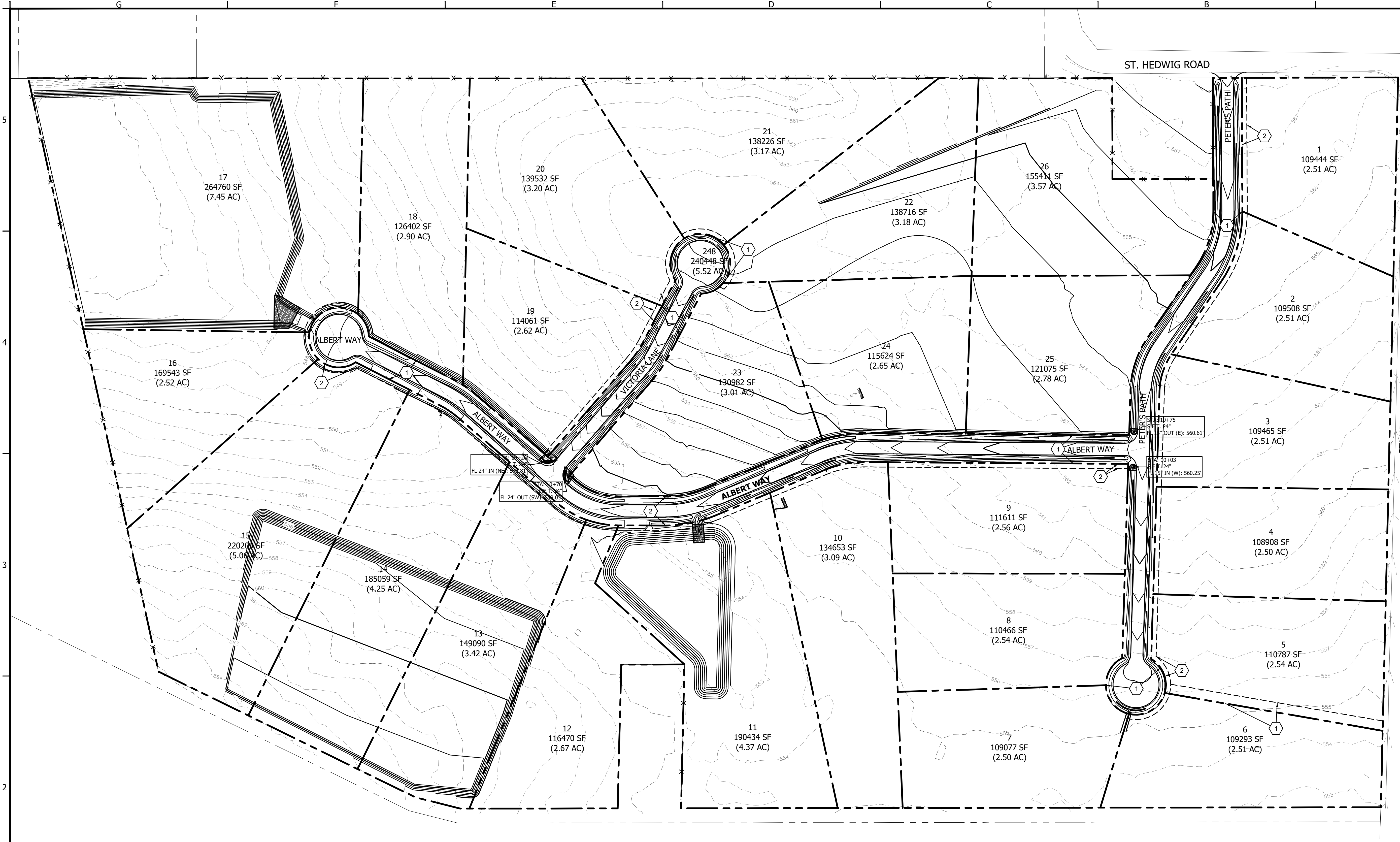
KIOLBASSA ESTATES
15490 ST. HEDWIG ROAD
ST. HEDWIG, BEXAR COUNTY, TEXAS 78152

GRADING PLAN

SHEET

CG100

06 OF 28



- (1) = PUBLIC UTILITY & EMERGENCY ACCESS EASEMENT
(2) = ELECTRIC EASEMENT

LEGEND

- BOUNDARY / RIGHT OF WAY
--- EASEMENT / SETBACK
--- RIBBON CURB
--- EXIST. GRADE ELEVATIONS
--- PROP. GRADE ELEVATIONS
--- RETAINING WALL (DESIGN BY OTHERS)
--- DIRECTION OF FLOW
--- LOT GRADING OPTION

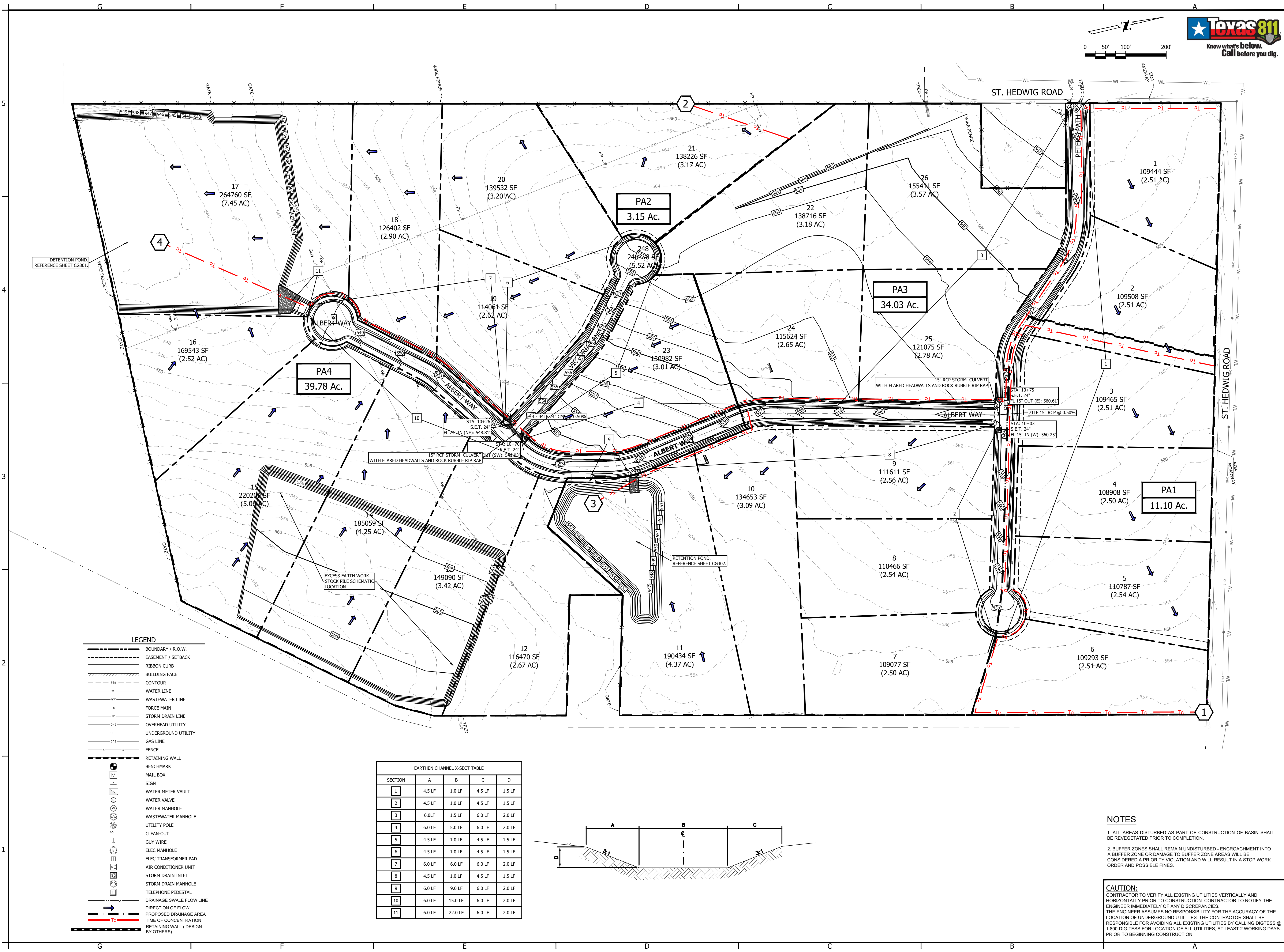
NOTES:

- REFERENCE STREET PLANS FOR MORE DETAILED INFORMATION.
- REFERENCE SHEET C002 FOR SODDING & SEEDING NOTES.
- ALL ITEMS ARE TO BE FURNISHED & INSTALLED BY CONTRACTOR. REFERENCE CONSTRUCTION DETAILS SHEETS FOR ADDITIONAL INFORMATION.
- ALL GRAVITY LINES ARE TO BE INSTALLED FROM DOWNSTREAM TO UPSTREAM.
- CONTRACTOR SHALL FORM SIDEWALKS AND VERIFY SLOPES PRIOR TO POURING CONCRETE. CONTRACTOR SHALL ENSURE THAT CROSS SLOPES ARE NO GREATER THAN 2% ALONG THE ACCESSIBLE ROUTE AND RUNNING SLOPE IS NO GREATER THAN 5%, UNLESS THE RUNNING SLOPE MATCHES THE EXISTING STREET SLOPE. IF ANY DISCREPANCY ARISES, CONTRACTOR SHALL CONTACT ENGINEER FOR SOLUTION.
- LIMITS OF CONSTRUCTION ARE SHOWN ON THE EROSION & SEDIMENTATION CONTROL PLAN(S).

CAUTION:

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ROUTED BY: DAVID GARRISON
DRAWING: P:\dwg\12\2024\1214 PM\1214 PM CG300 Overall Drainage Plan.dwg



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FIRM NO. F-15085

WGI.

wginc.com

255 E. MULBERRY AVE., SUITE 501, SAN ANTONIO, TEXAS 78212

210.860.9224

STATE OF TEXAS

146180

AMANDA SALDIVAR

PROFESSIONAL ENGINEER

4/12/2024

INITIAL SUBMITTAL

APRIL 12, 2024

KIOLBASSA ESTATES

15490 ST. HEDWIG ROAD

ST. HEDWIG, BEXAR COUNTY, TEXAS 78152

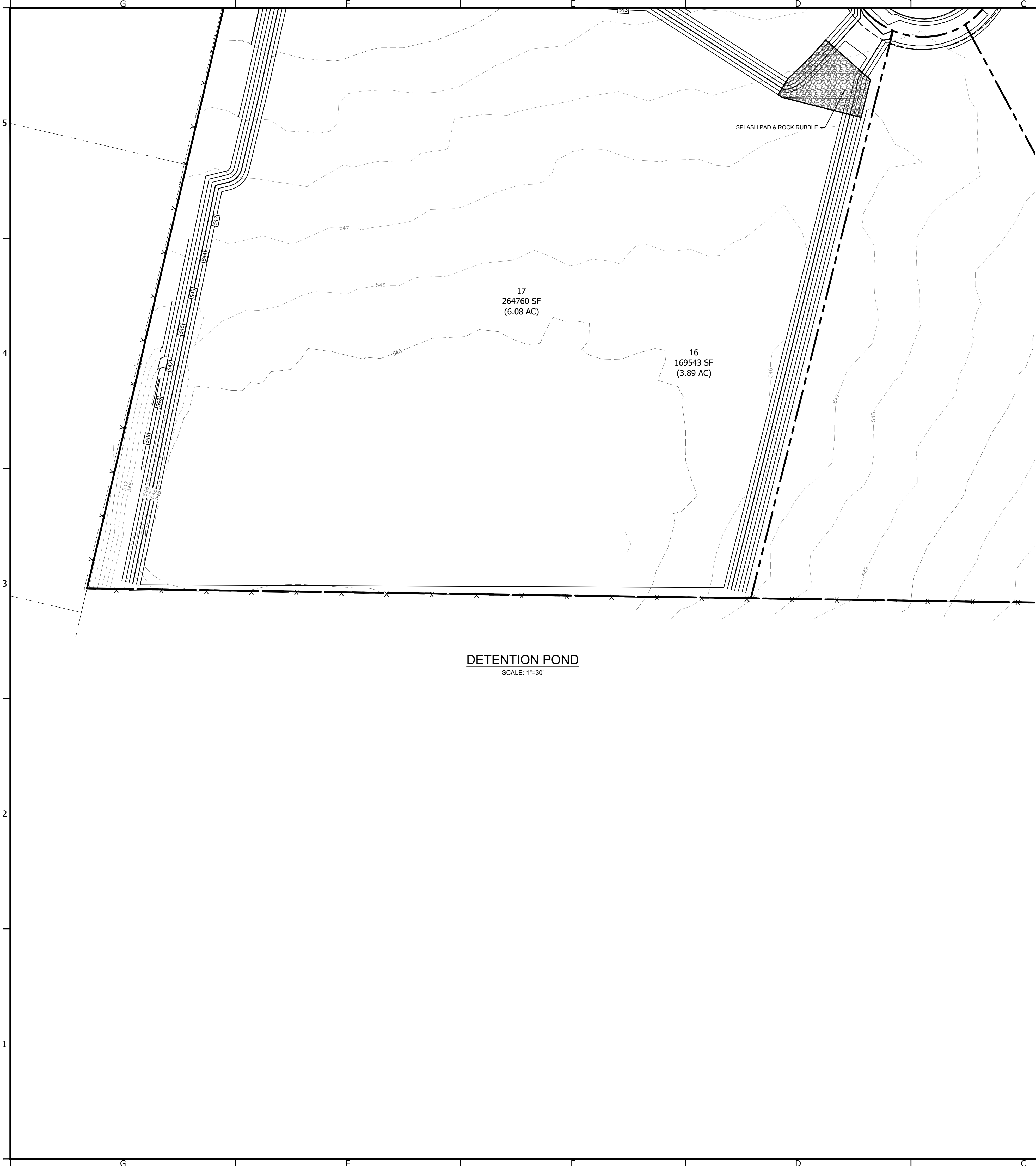
OVERALL DRAINAGE PLAN

SHEET

CG300

07 OF 28

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PLOT DATE: 4/12/2024 10:32 AM
PLOT BY: DAVID GARCIA
DRAWING: Pond Plan & Details.dwg



NOTES

1. ALL AREAS DISTURBED AS PART OF CONSTRUCTION OF BASIN SHALL BE REVEGETATED PRIOR TO COMPLETION.

NOTES TO CONTRACTOR

1. BEFORE FINAL ACCEPTANCE OF CONSTRUCTION BY THE OWNER, THE CONTRACTOR WILL REMOVE ALL TRASH, DEBRIS, AND ACCUMULATED SILT FROM THE BASINS AND REESTABLISH THEM TO THE PROPER OPERATING CONDITION.

LEGEND

	BOUNDARY / RIGHT OF WAY
	EASEMENT / SETBACK
	RIBBON CURB
	RETAINING WALL (DESIGN BY OTHERS)
	EXIST. GRADE ELEVATIONS
	PROP. GRADE ELEVATIONS
	PROP. STORM DRAIN LINE
	WATER LINE
	WASTEWATER LINE
	DRAINAGE SWALE FLOW LINE
	DIRECTION OF FLOW
	PROPOSED FINISHED GRADE
	PROPOSED FINISHED GRADE
	FINISHED FLOOR ELEVATION
	TOP OF WALL ELEVATION
	FINISHED GRADE AT WALL
	FENCE

CAUTION:
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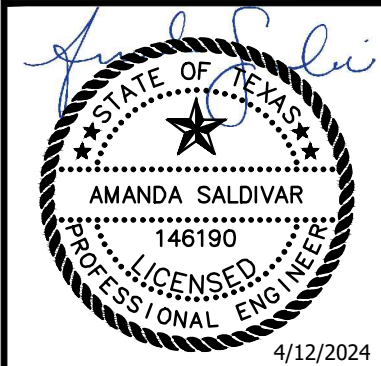
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FIRM NO. F-15085

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755 E. MULBERRY AVE., SUITE 501, SAN ANTONIO, TEXAS 78212



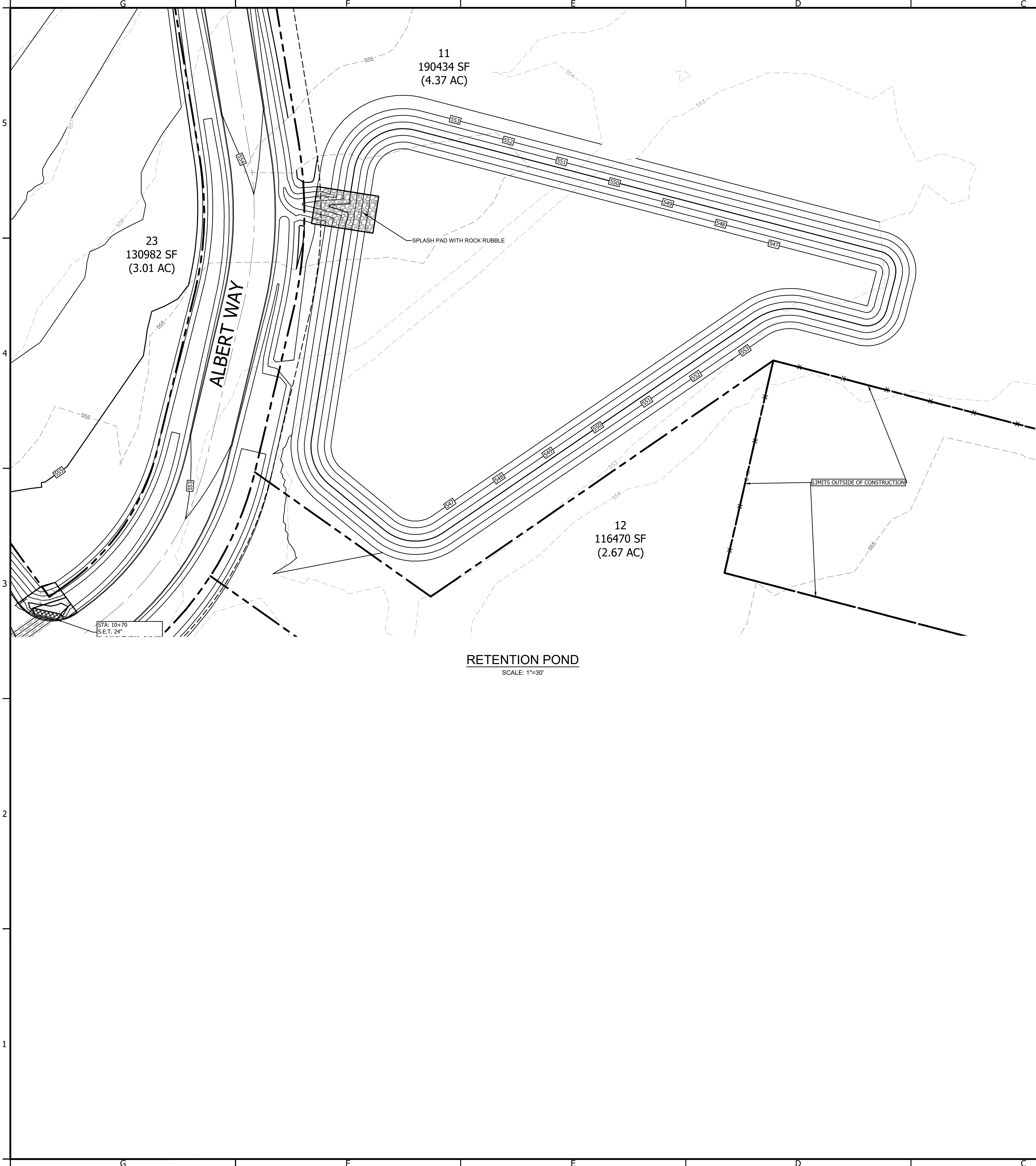
INITIAL SUBMITTAL
APRIL 12, 2024

KIOLBASSA ESTATES
15490 ST. HEDWIG ROAD
ST. HEDWIG, BEXAR COUNTY, TEXAS 78152

POND PLAN & DETAILS

SHEET
CG301
08 OF 28

S:\MIDT\4/12/2024\15490 ST. HEDWIG\CG302 Pond Plan & Details.dwg
PLOTTER: David Garbino
C:\Users\David Garbino\AppData\Local\Temp\15490 ST. HEDWIG\CG302 Pond Plan & Details.dwg



NOTES

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LEGEND	
	BOUNDARY / RIGHT OF WAY
	EASEMENT / SETBACK
	RIBBON CURB
	RETAINING WALL (DESIGN BY OTHERS)
	EXIST. GRADE ELEVATIONS
	PROP. GRADE ELEVATIONS
	PROP. STORM DRAIN LINE
	WATER LINE
	WASTEWATER LINE
	DRAINAGE SWALE FLOW LINE
	DIRECTION OF FLOW
	PROPOSED FINISHED GRADE
	PROPOSED FINISHED GRADE
	FINISHED FLOOR ELEVATION
	TOP OF WALL ELEVATION
	FINISHED GRADE AT WALL
	FENCE



	DIRECTION OF FLOW
	PROPOSED FINISHED GRADE
	PROPOSED FINISHED GRADE
	FINISHED FLOOR ELEVATION
	TOP OF WALL ELEVATION
	FINISHED GRADE AT WALL
	FENCE



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APRIL 12, 2024

KIOLBASSA ESTATES
15490 ST. HEDWIG ROAD
ST. HEDWIG, BEXAR COUNTY, TEXAS 78152

POND PLAN & DETAILS

SHEET

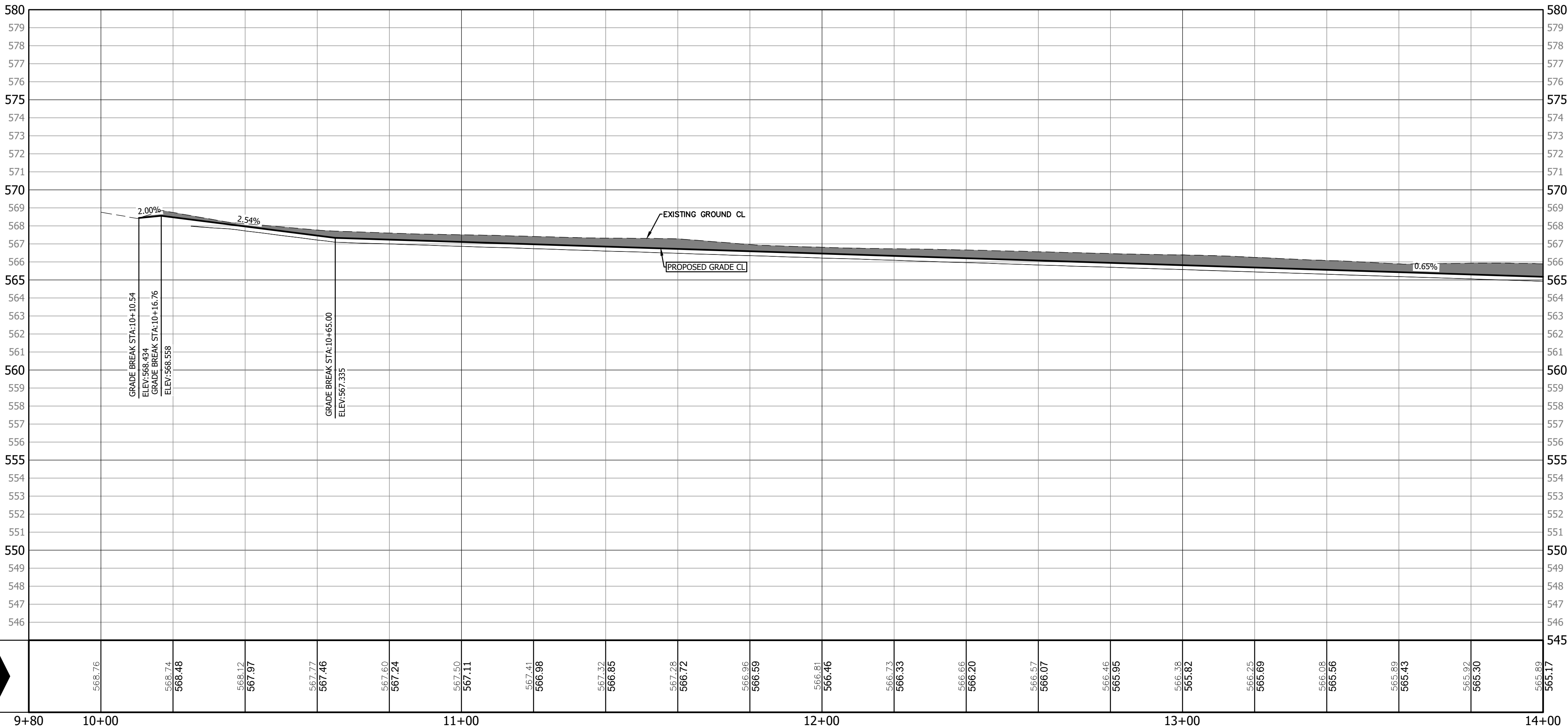
CG302

09 OF 28

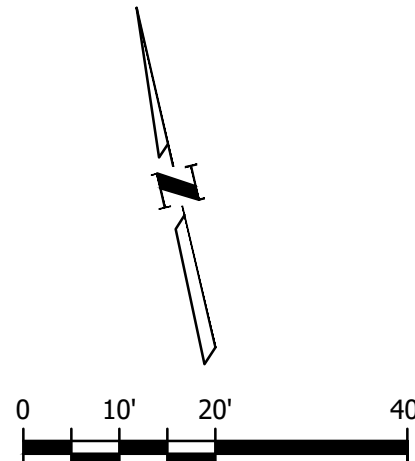
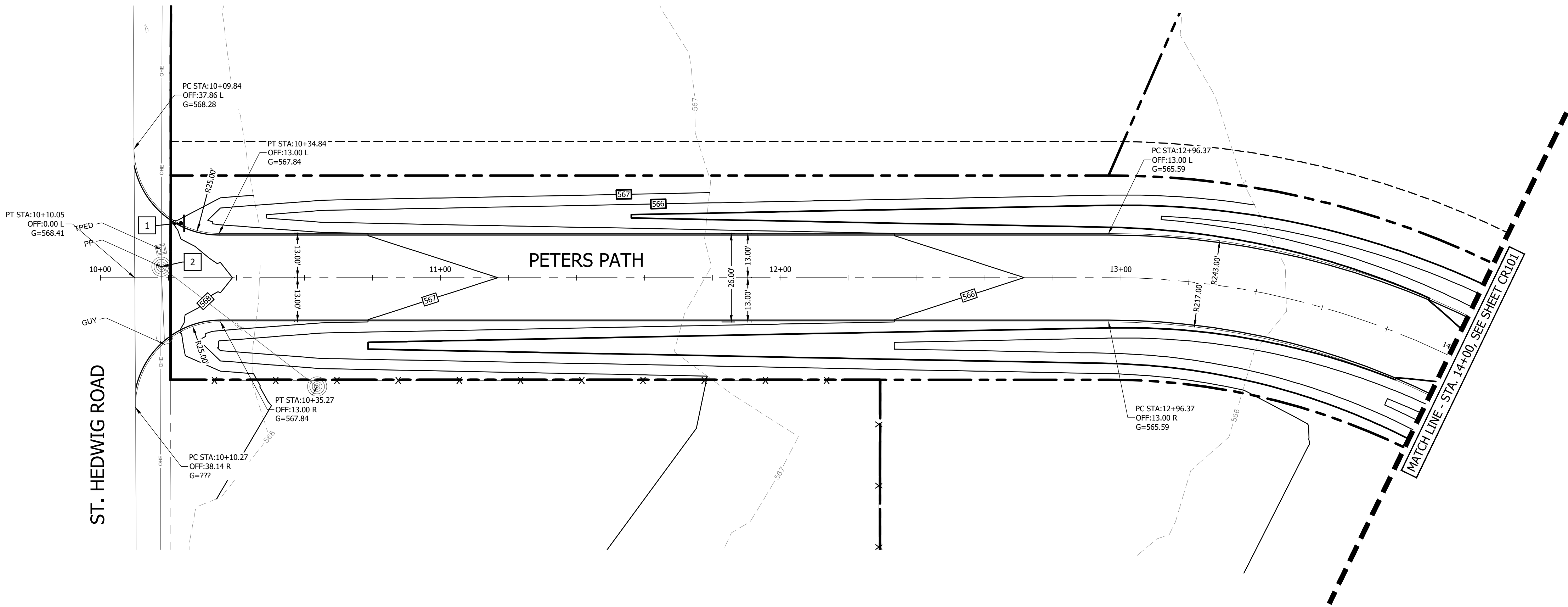
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DRAWING: P:\Roadwork\78152 St Hedwig Hwy\15115 - 15490\DWG\CR100 CR100 Sheet A.dwg

EXIST. GROUND
CL OF ROAD
PROPOSED
CL OF ROAD



PETERS PATH
STA: 9+80 TO STA: 14+00
HORIZ: 1"=20
VERT: 1"=4



LEGEND

- PROPERTY LINE / RIGHT-OF-WAY
- EASEMENT
- EXISTING GRADE
- PROPOSED GRADE
- RIBBON CURB
- WASHOUT CROWN

SITE PLAN KEY NOTES

- TRAFFIC SIGNAGE (REFERENCE SHEET CR200)
- EXISTING POWER POLE TO BE RELOCATED

ELEVATION EXISTING GRADE	ELEVATION PROPOSED GRADE
964.14 967.76	

NOTES:

- REFERENCE SHEET C600 FOR TYPICAL STREET SECTIONS AND PAVEMENT SECTIONS. REFERENCE GEOTECHNICAL REPORT FOR ADDITIONAL PAVEMENT SECTION RECOMMENDATION DETAILS.
- REFERENCE SHEET C700 FOR TxDOT DETAILS.

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FIRM NO. F-15085

210.860.9224



INITIAL SUBMITTAL
APRIL 12, 2024

KIOLBASSA ESTATES
15490 ST. HEDWIG ROAD
ST. HEDWIG, BEXAR COUNTY, TEXAS 78152

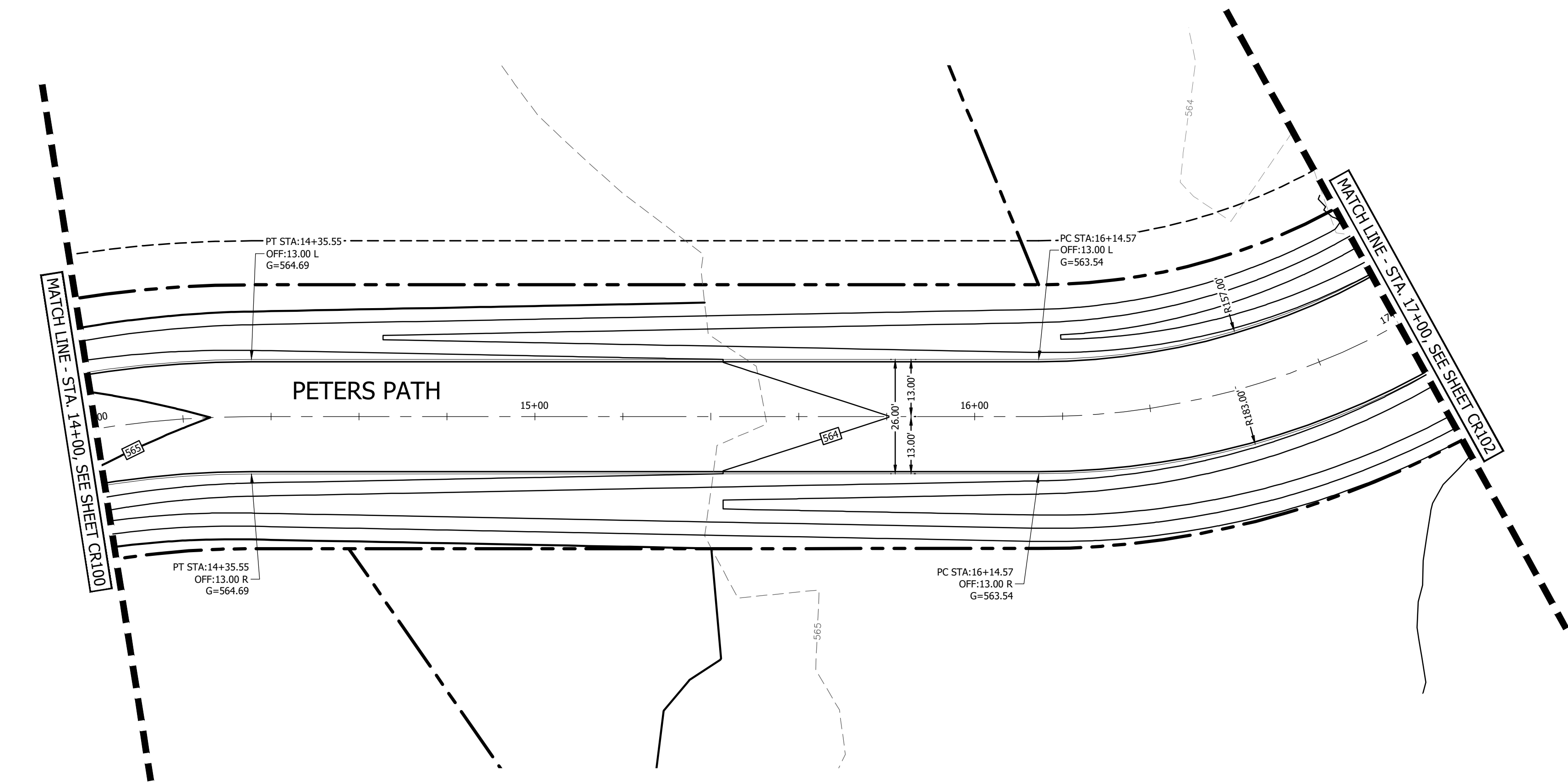
PLAN AND PROFILE PETERS PATH - STA. 10+00 TO STA. 14+00

SHEET
CR100
10 OF 28

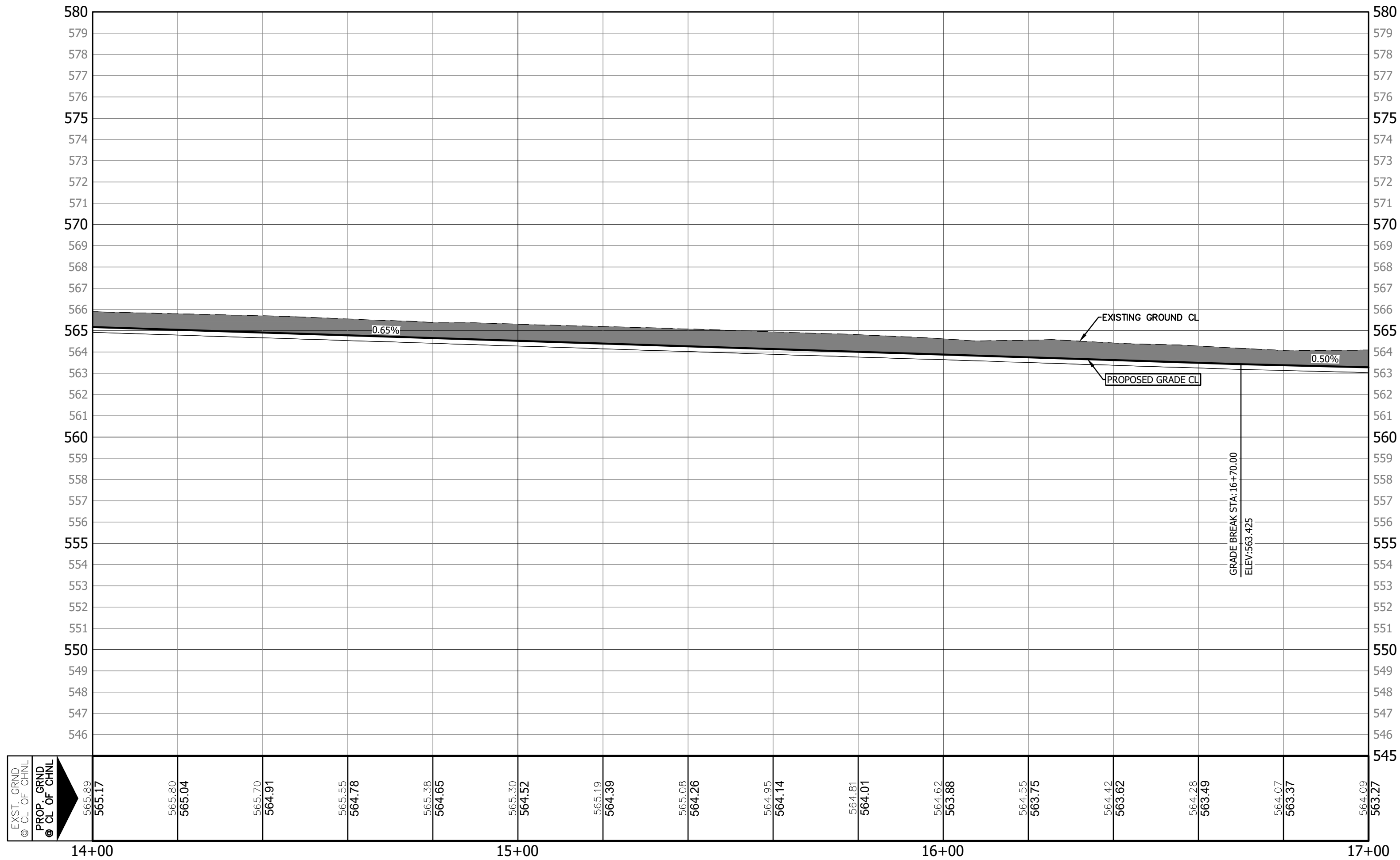
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CONSTRUCTION PRIOR TO
FORMAL CITY APPROVAL



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PETERS PATH
STA: 14+00 TO STA: 17+00
HORIZ: 1"=20
VERT: 1"=4



- NOTES:
- REFERENCE SHEET C600 FOR TYPICAL STREET SECTIONS AND PAVEMENT SECTIONS. REFERENCE GEOTECHNICAL REPORT FOR ADDITIONAL PAVEMENT SECTION RECOMMENDATION DETAILS.
 - REFERENCE SHEET C700 FOR TxDOT DETAILS.

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LEGEND

	PROPERTY LINE / RIGHT-OF-WAY
	EASEMENT
	EXISTING GRADE
	PROPOSED GRADE
	RIBBON CURB
	WASHOUT CROWN

ELEVATION EXISTING GRADE	964.14 967.76	ELEVATION PROPOSED GRADE
-----------------------------	------------------	-----------------------------

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FORMAL CITY APPROVAL

FIRM NO. F-15085

WGInc.com

755 E. MULBERRY AVE, SUITE 501, SAN ANTONIO, TEXAS 78212

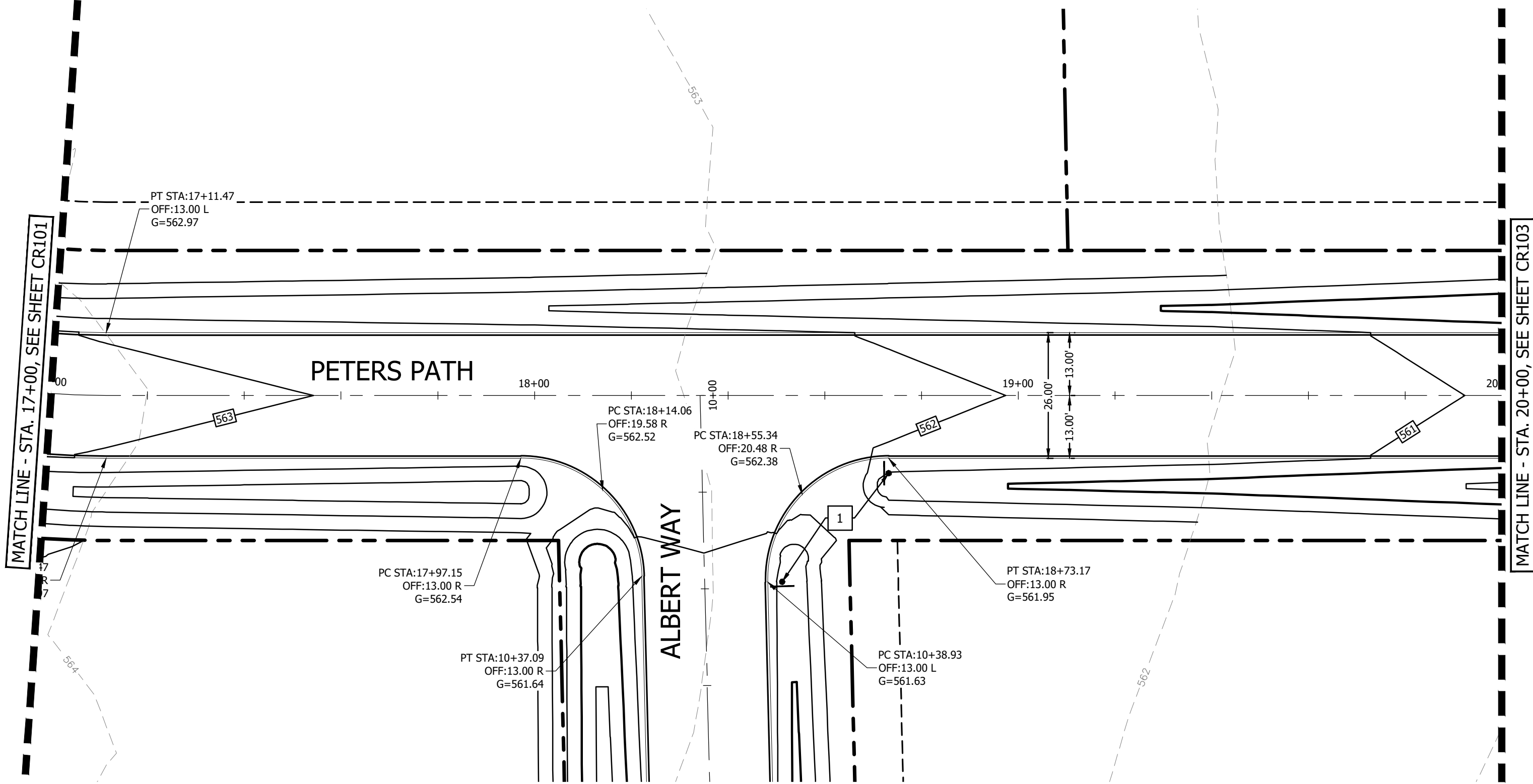
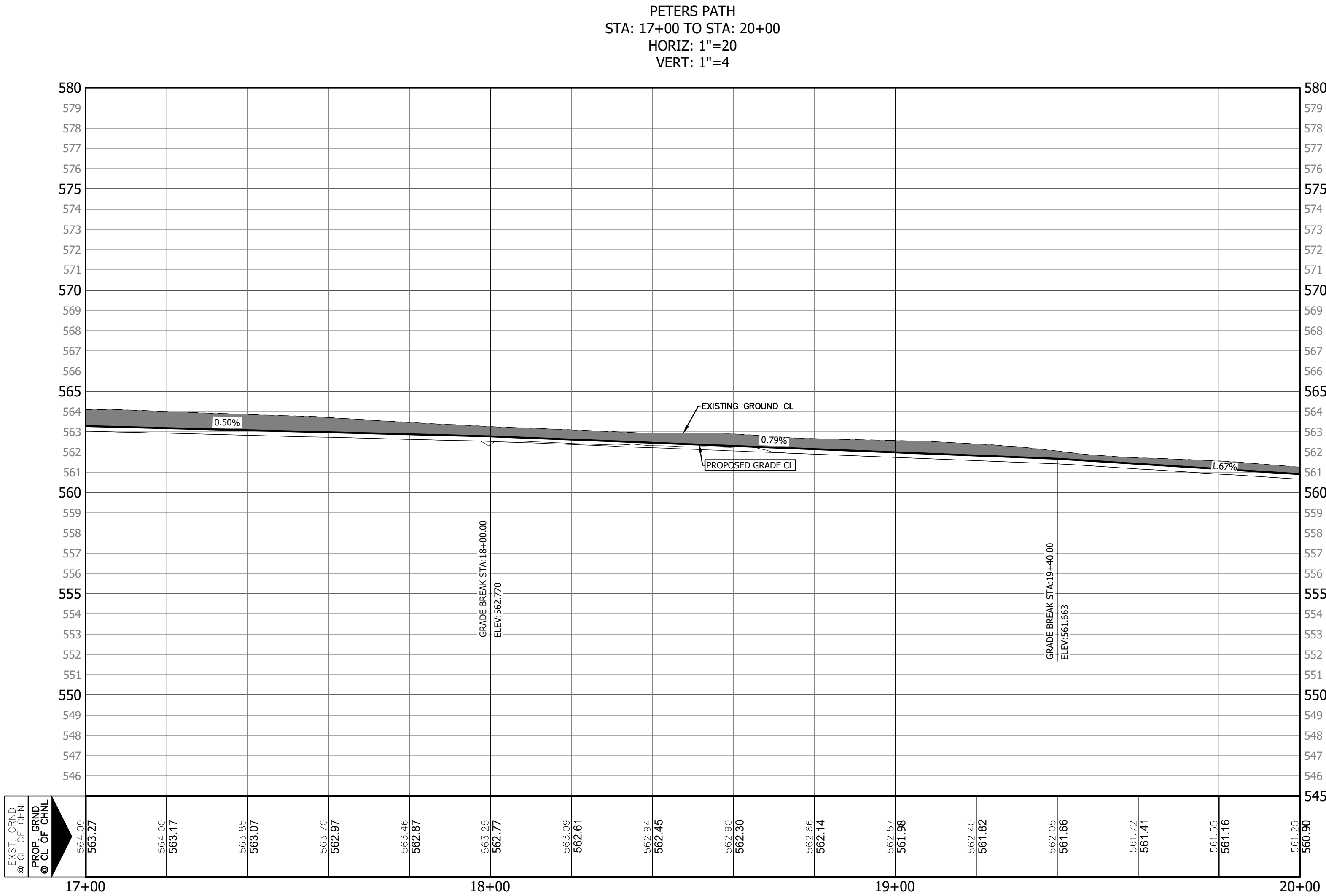
INITIAL SUBMITTAL
APRIL 12, 2024

KIOLBASSA ESTATES
15490 ST. HEDWIG ROAD
ST. HEDWIG, BEXAR COUNTY, TEXAS 78152

PLAN AND PROFILE PETERS PATH - STA. 14+00 TO STA. 17+00

SHEET
CR101
11 OF 28

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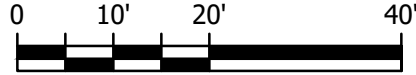
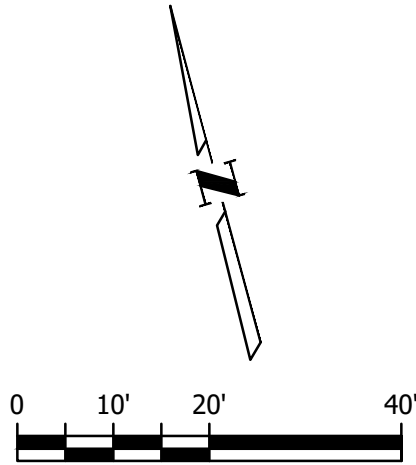
LEGEND

- PROPERTY LINE / RIGHT-OF-WAY
- EASEMENT
- EXISTING GRADE
- PROPOSED GRADE
- RIBBON CURB
- WASHOUT CROWN

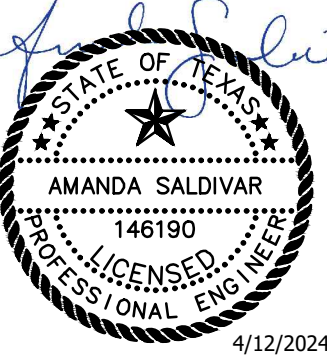
SITE PLAN KEY NOTES

1 TRAFFIC SIGNAGE (REFERENCE SHEET CR200)

ELEVATION	ELEVATION
EXISTING GRADE	PROPOSED GRADE
964.14	967.76



FIRM NO. F-15085
210.860.9224



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APRIL 12, 2024

KIOLBASSA ESTATES
15490 ST. HEDWIG ROAD
ST. HEDWIG, BEXAR COUNTY, TEXAS 78152

PLAN AND PROFILE PETERS PATH - STA. 17+00 TO STA. 20+00

SHEET
CR102
12 OF 28

NOTES:

1. REFERENCE SHEET C600 FOR TYPICAL STREET SECTIONS AND PAVEMENT SECTIONS. REFERENCE GEOTECHNICAL REPORT FOR ADDITIONAL PAVEMENT SECTION RECOMMENDATION DETAILS.

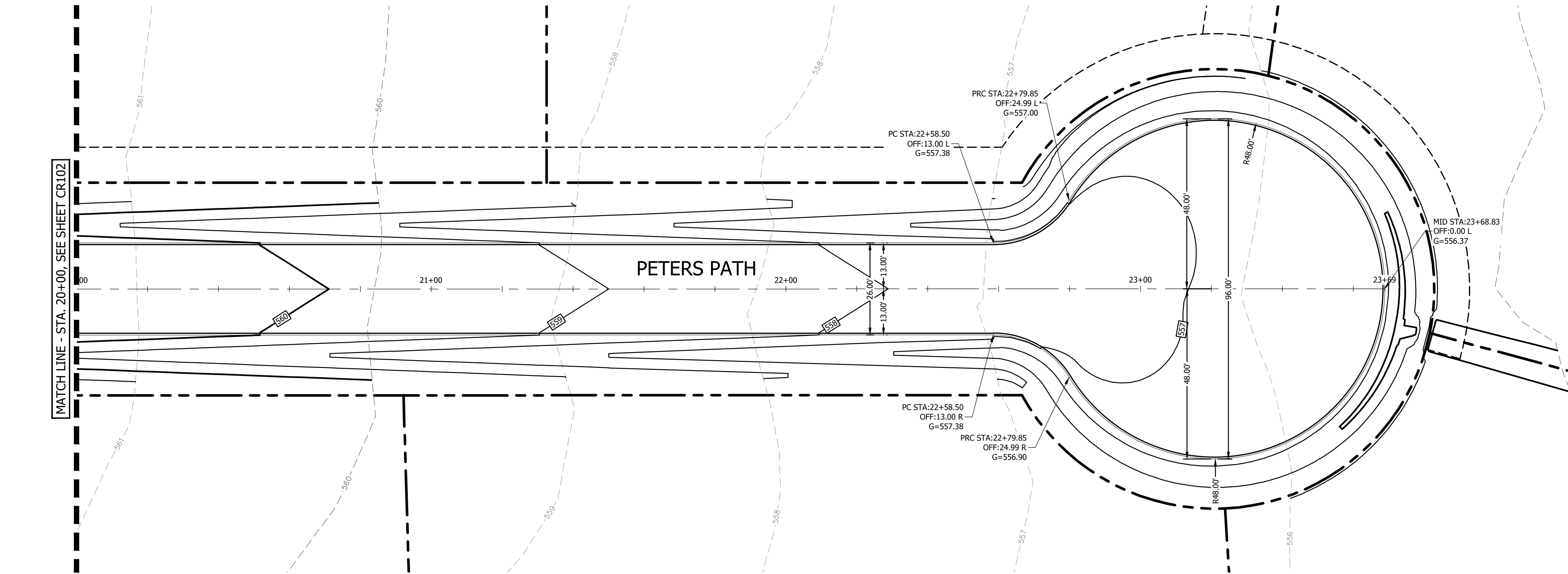
2. REFERENCE SHEET C700 FOR TxDOT DETAILS.

CAUTION:

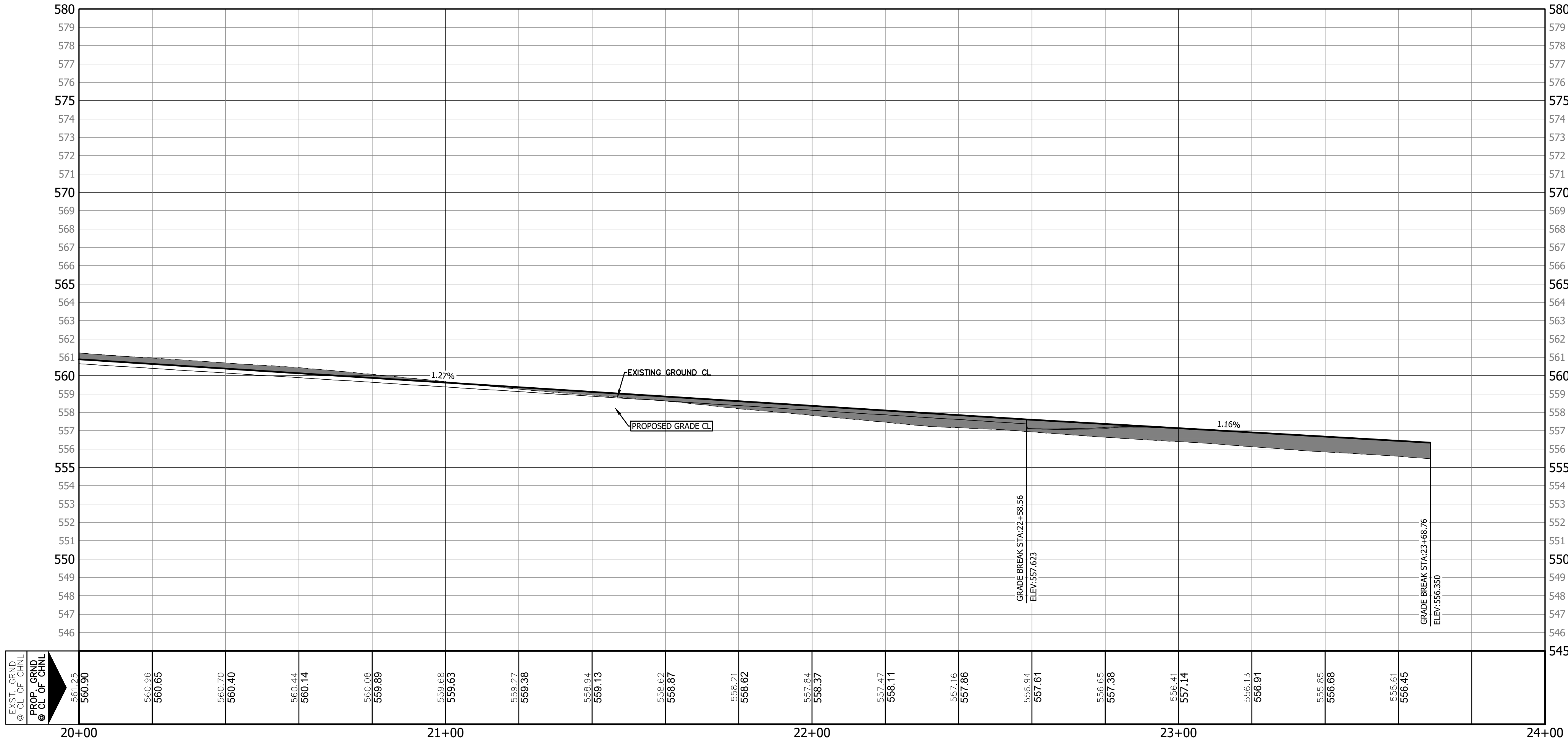
CONTRACTOR TO VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

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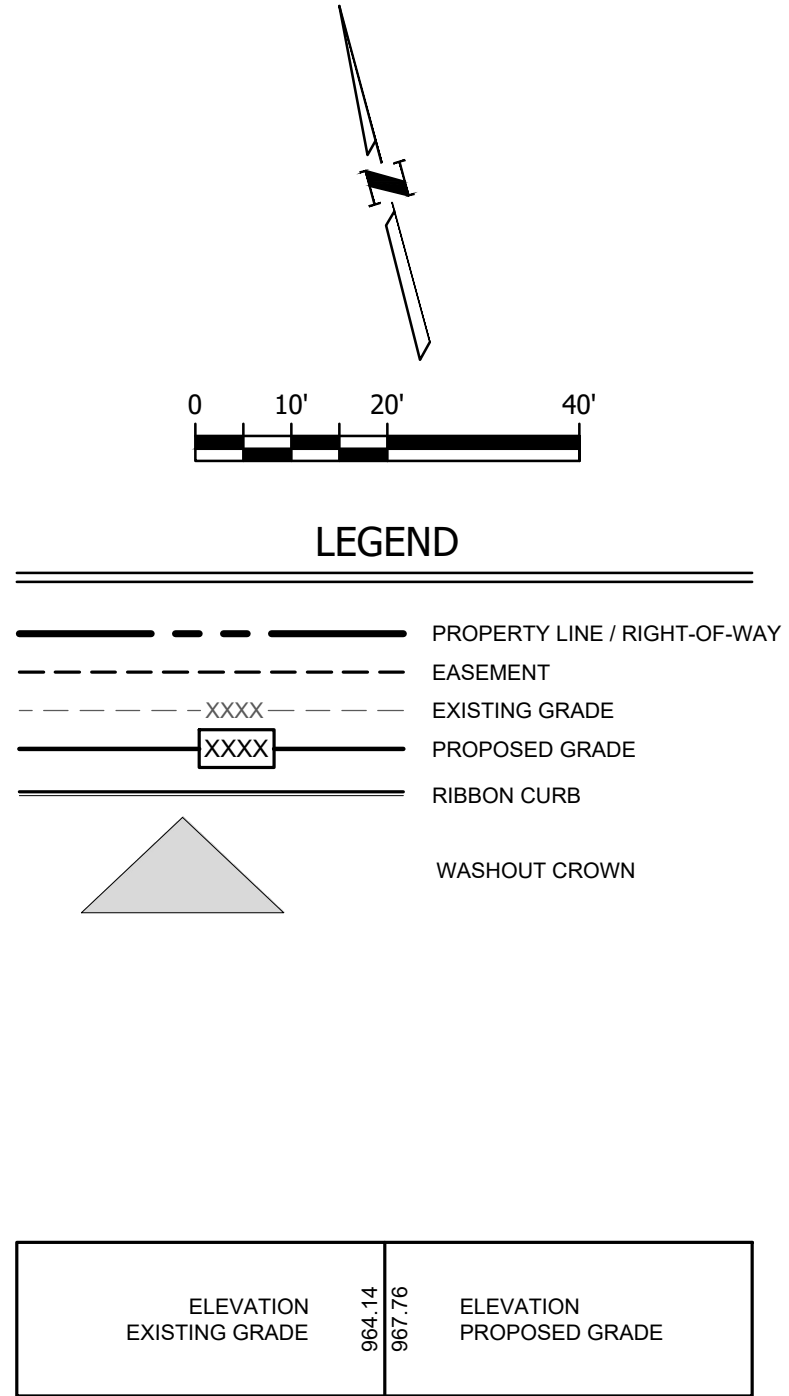


PETERS PATH
STA: 20+00 TO STA: 24+00
HORIZ: 1"=20'
VERT: 1"=4'

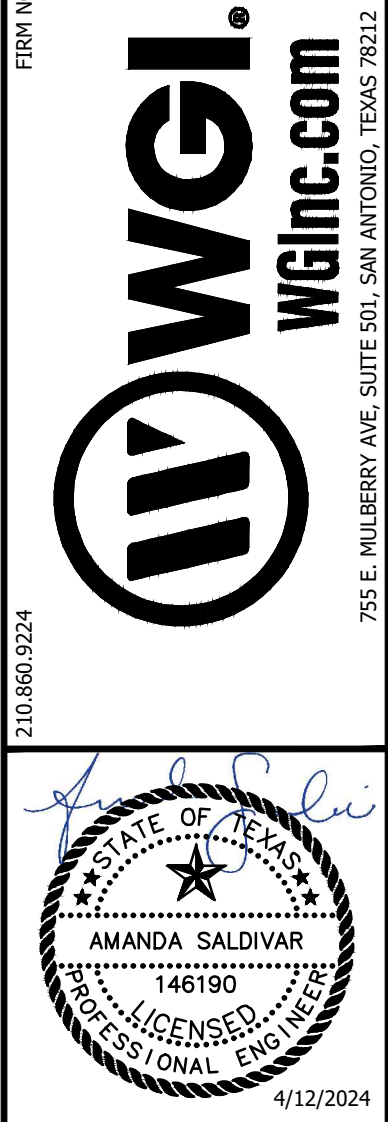


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NOTES:
1. REFERENCE SHEET C600 FOR TYPICAL STREET SECTIONS AND PAVEMENT SECTIONS. REFERENCE GEOTECHNICAL REPORT FOR ADDITIONAL PAVEMENT SECTION RECOMMENDATION DETAILS.
2. REFERENCE SHEET C700 FOR TxDOT DETAILS.



KIOLBASSA ESTATES
15490 ST. HEDWIG ROAD
ST. HEDWIG, BEXAR COUNTY, TEXAS 78152
PLAN AND PROFILE PETERS PATH - STA. 20+00 TO STA. 23+68.75



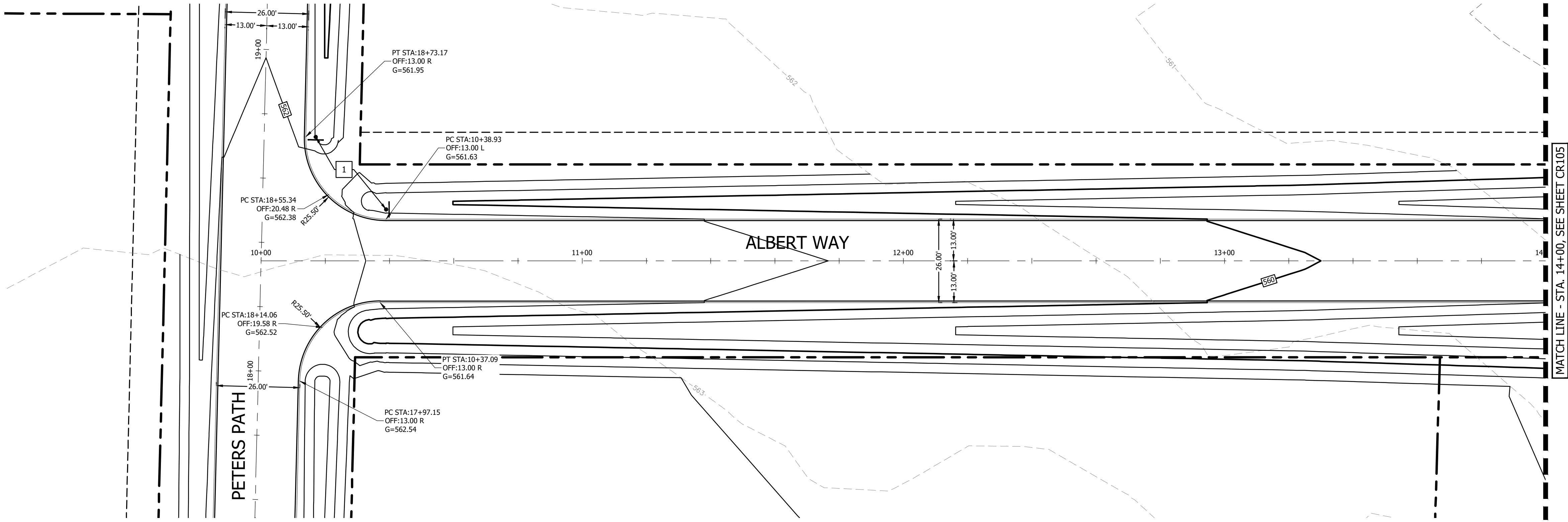
INITIAL SUBMITTAL
APRIL 12, 2024



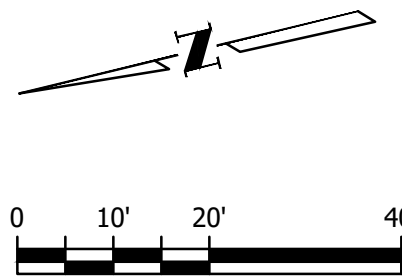
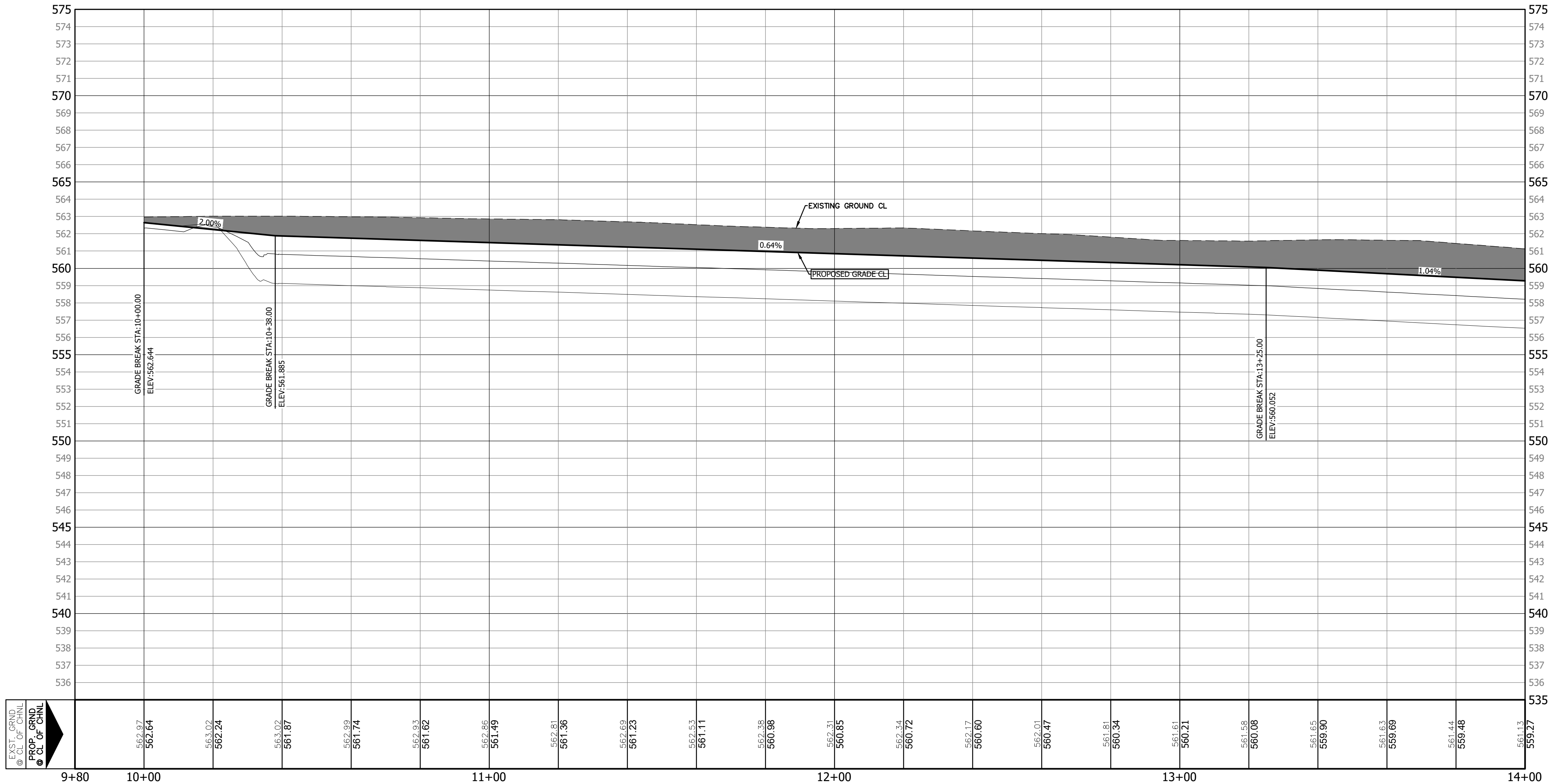
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FORMAL CITY APPROVAL

SHEET
CR103
13 OF 28

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ALBERT WAY
STA: 9+80 TO STA: 14+00
HORIZ: 1"=20'
VERT: 1"=4'



LEGEND

- PROPERTY LINE / RIGHT-OF-WAY
- EASEMENT
- EXISTING GRADE
- PROPOSED GRADE
- RIBBON CURB
- WASHOUT CROWN

SITE PLAN KEY NOTES

- 1 TRAFFIC SIGNAGE (REFERENCE SHEET CR200)

ELEVATION EXISTING GRADE	ELEVATION PROPOSED GRADE
964.14 967.76	

- NOTES:
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 - REFERENCE SHEET C700 FOR TxDOT DETAILS.

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FIRM NO. F-15085

210.860.9224



INITIAL SUBMITTAL
APRIL 12, 2024

KIOLBASSA ESTATES
15490 ST. HEDWIG ROAD
ST. HEDWIG, BEXAR COUNTY, TEXAS 78152

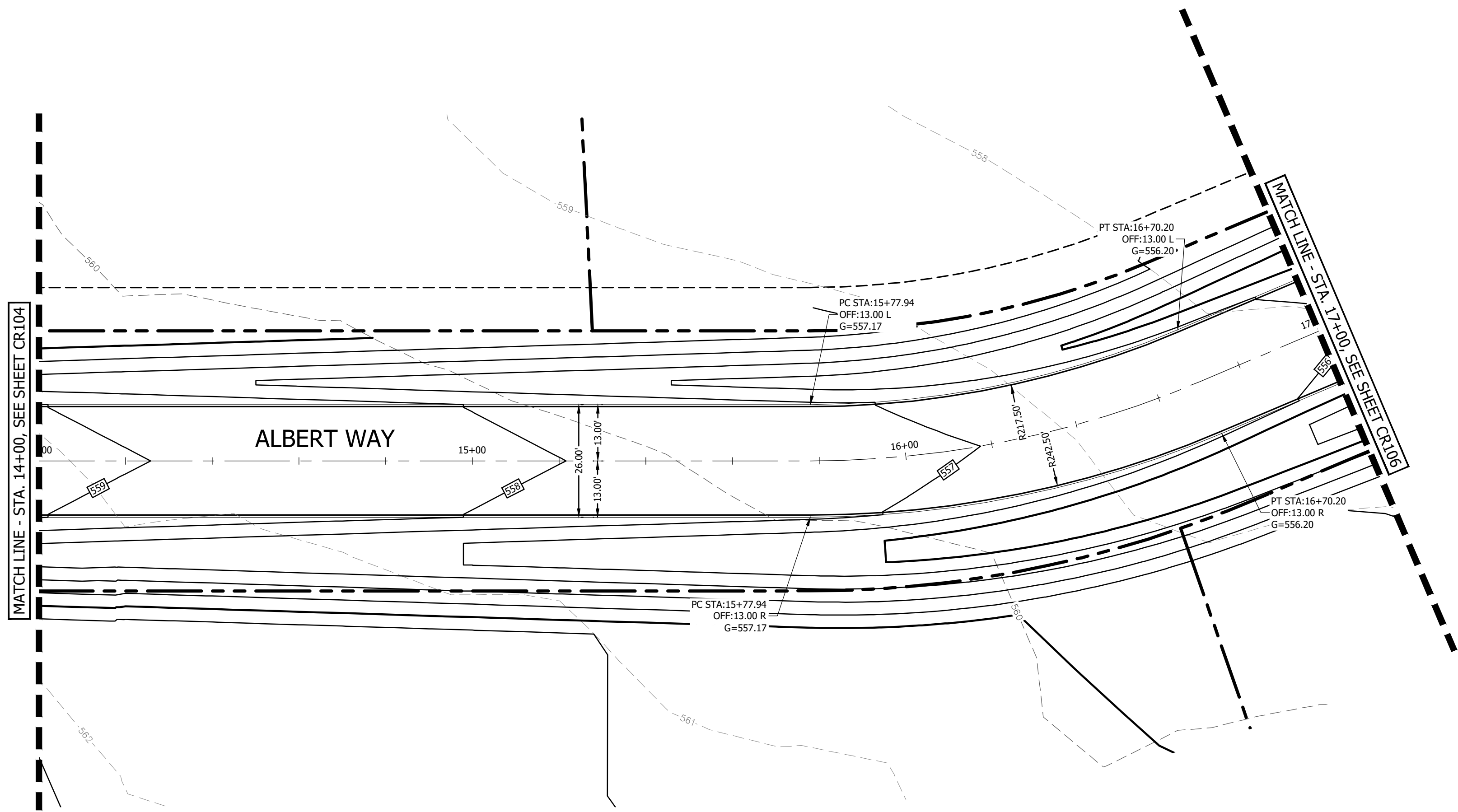
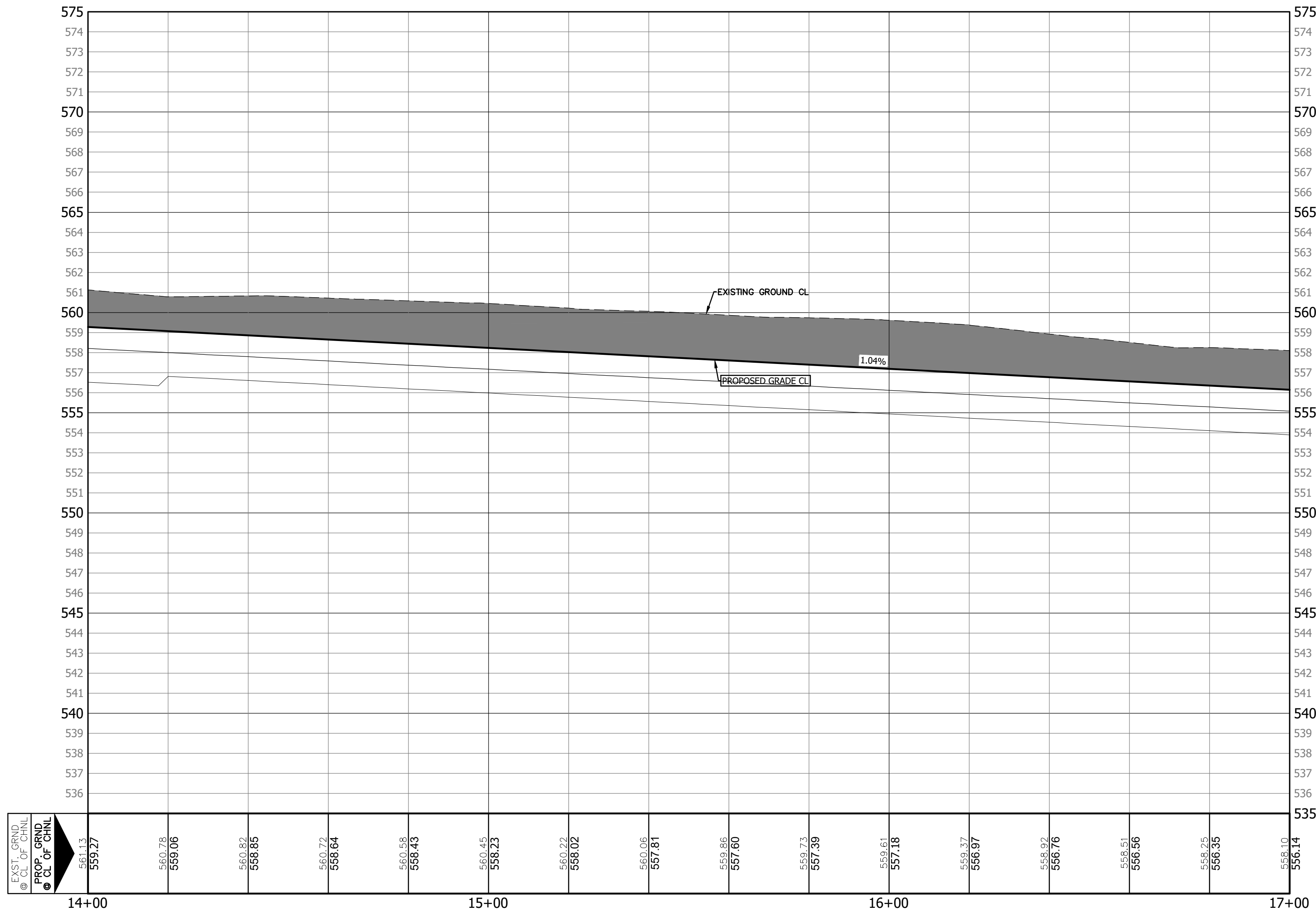
PLAN AND PROFILE ALBERT WAY - STA. 10+00 TO STA. 14+00

SHEET
CR104
14 OF 28

NOT AUTHORIZED FOR
CONSTRUCTION PRIOR TO
FORMAL CITY APPROVAL

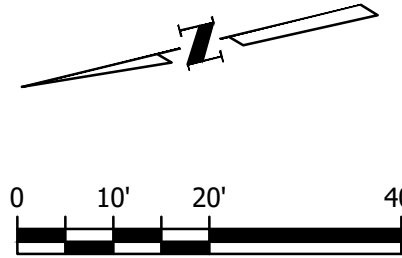


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DRAWING: F:\albertway\78152 St Hedwig Hwy 14-17.dwg - Sheet 001 of 04 - CR105 Sheet 01.dwg



ELEVATION EXISTING GRADE	ELEVATION PROPOSED GRADE
964.14	967.76

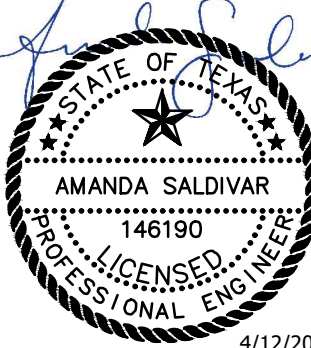
- LEGEND
- PROPERTY LINE / RIGHT-OF-WAY
 - EASEMENT
 - EXISTING GRADE
 - PROPOSED GRADE
 - RIBBON CURB
 - WASHOUT CROWN



- NOTES:
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 - REFERENCE SHEET C700 FOR TxDOT DETAILS.

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FIRM NO. F-15085
210.860.9224



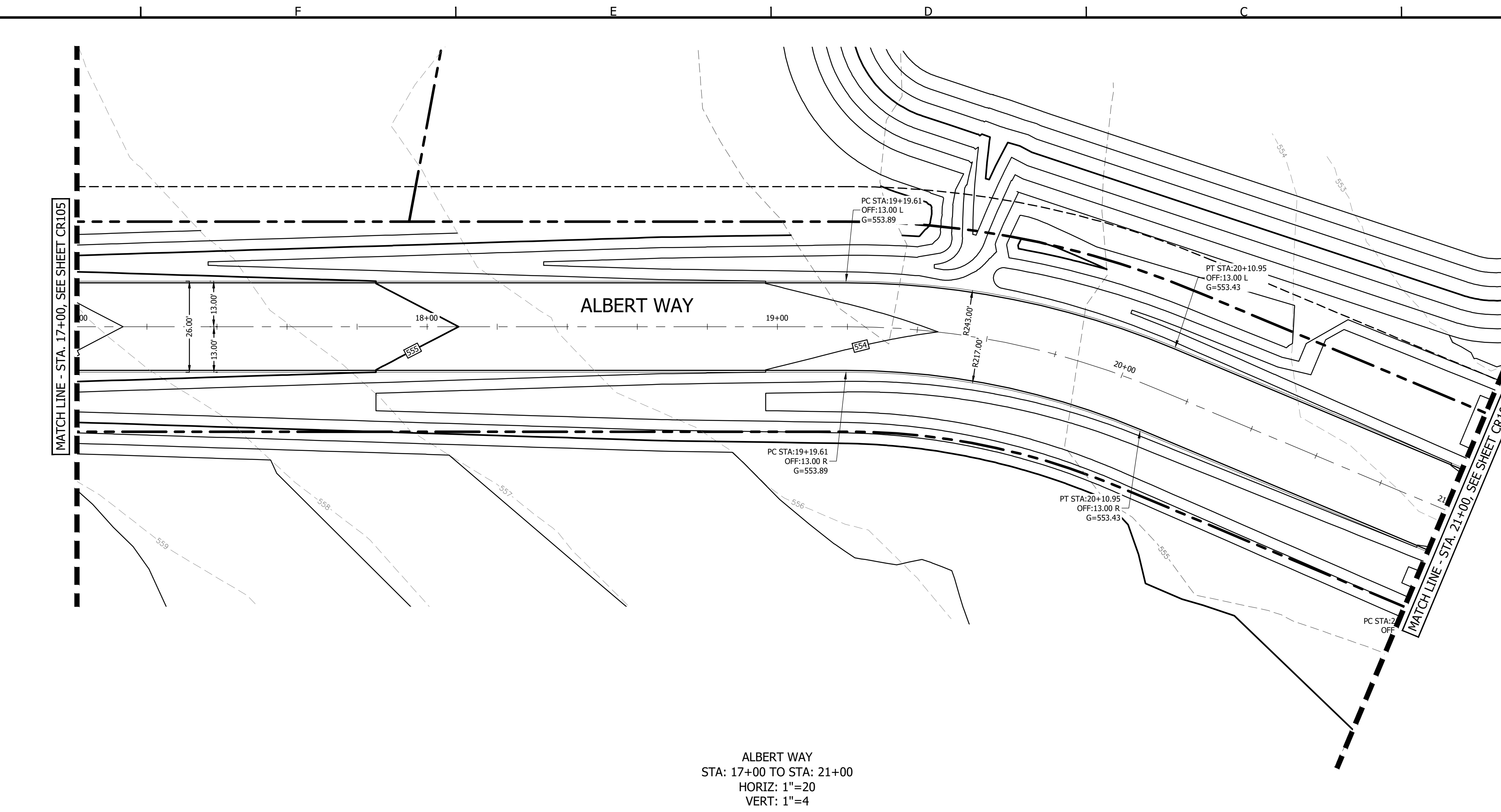
INITIAL SUBMITTAL
APRIL 12, 2024



KIOLBASSA ESTATES
15490 ST. HEDWIG ROAD
ST. HEDWIG, BEXAR COUNTY, TEXAS 78152

PLAN AND PROFILE ALBERT WAY - STA. 14+00 TO STA. 17+00

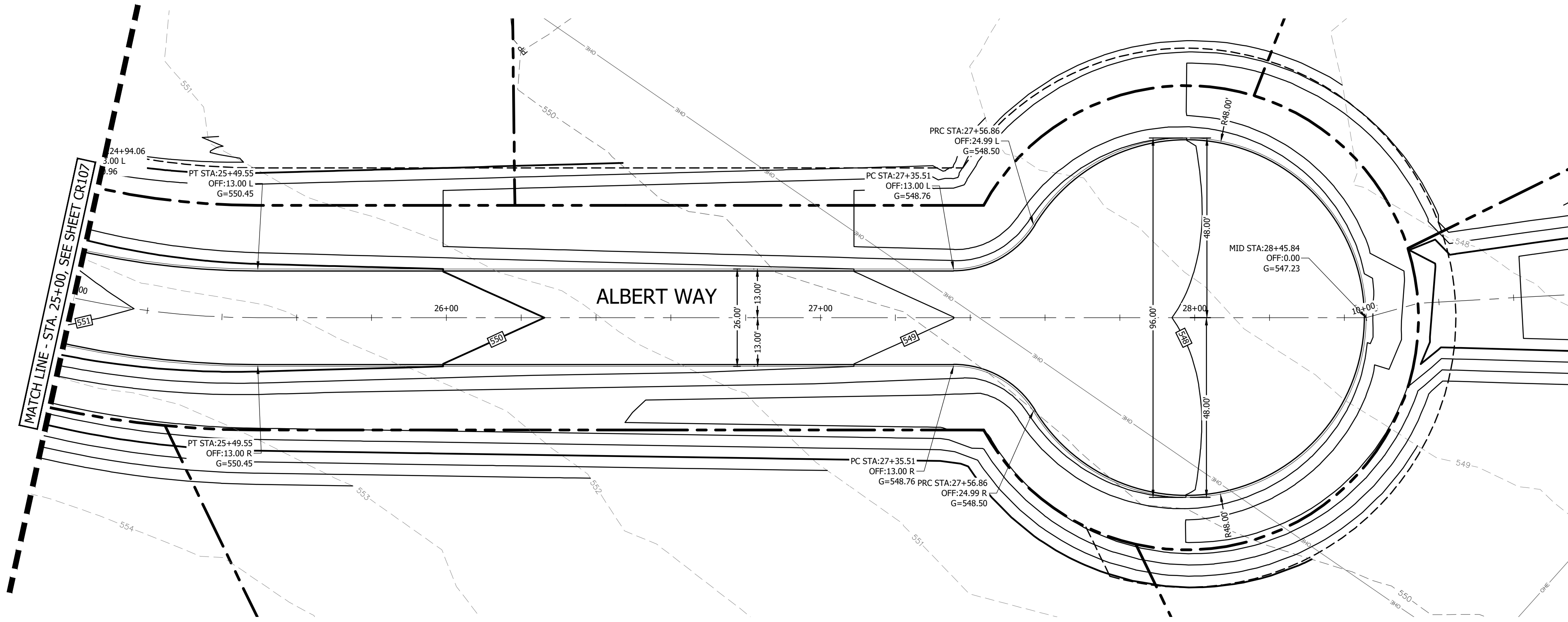
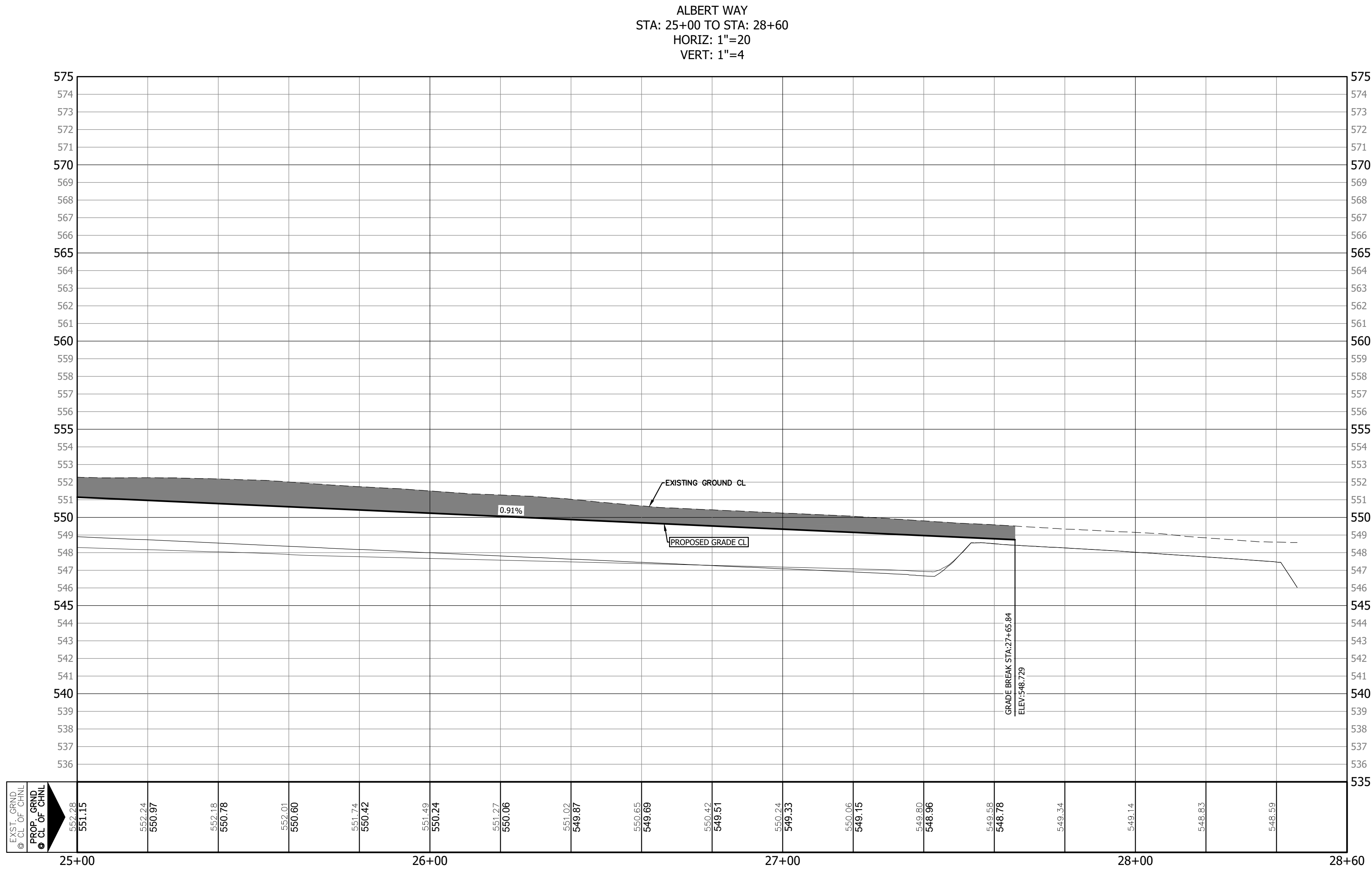
SHEET
CR105
15 OF 28

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FORMAL CITY APPROVAL



FIRM NO: F-15985 210.860.9224	 wgl. wgInc.com	<p>NOT AUTHORIZED FOR CONSTRUCTION PRIOR TO FORMAL CITY APPROVAL</p> <p>FIRM NO: F-15985</p> <p>210.860.9224</p>
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="flex: 1;">  <p>AMANDA SALDIVAR LICENSED PROFESSIONAL ENGINEER NO. 146190 STATE OF TEXAS</p> </div> <div style="flex: 0 0 auto; text-align: right;"> 4/12/2024 </div> </div> <p>INITIAL SUBMITTAL APRIL 12, 2024</p>		
<p>KIOLBASSA ESTATES</p> <p>15490 ST. HEDWIG ROAD</p> <p>ST. HEDWIG, BEXAR COUNTY, TEXAS 78152</p> <hr/> <p>PLAN AND PROFILE ALBERT WAY - STA. 17+00 TO STA. 21+00</p>		
<p>SHEET</p> <h1>CR106</h1> <p>16 OF 28</p> <p>----</p>		

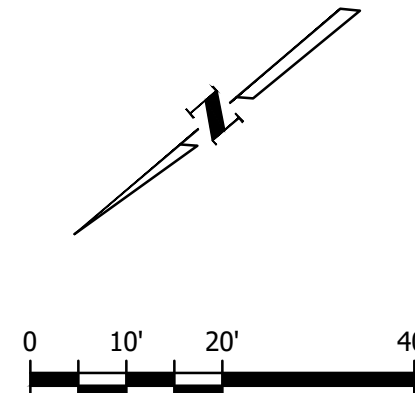
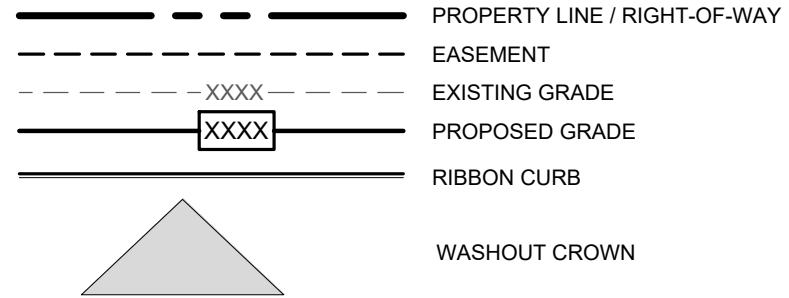
SAVED: 4/12/2024 5:17 PM
ROUTED BY: DAVID GARRINE
DRAWING: P:\Drawings\78152 St Hedwig Hwy\24 59113 - 15490 ST - Hedwig Road\CR108 Sheet 8.dwg



CAUTION:
CONTRACTOR TO VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING ALL EXISTING UTILITIES BY CALLING DIGTESS @ 1-800-DIG-TESS FOR LOCATION OF ALL UTILITIES, AT LEAST 2 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.

NOTES:
1. REFERENCE SHEET CRXXX FOR TYPICAL STREET SECTIONS AND PAVEMENT SECTIONS. REFERENCE GEOTECHNICAL REPORT FOR ADDITIONAL PAVEMENT SECTION RECOMMENDATION DETAILS.
2. REFERENCE SHEET CRXXX FOR CITY OF ST. HEDWIG DETAILS.

ELEVATION EXISTING GRADE	ELEVATION PROPOSED GRADE
9654.14 967.76	



KIOLBASSA ESTATES
15490 ST. HEDWIG ROAD
ST. HEDWIG, BEXAR COUNTY, TEXAS 78152

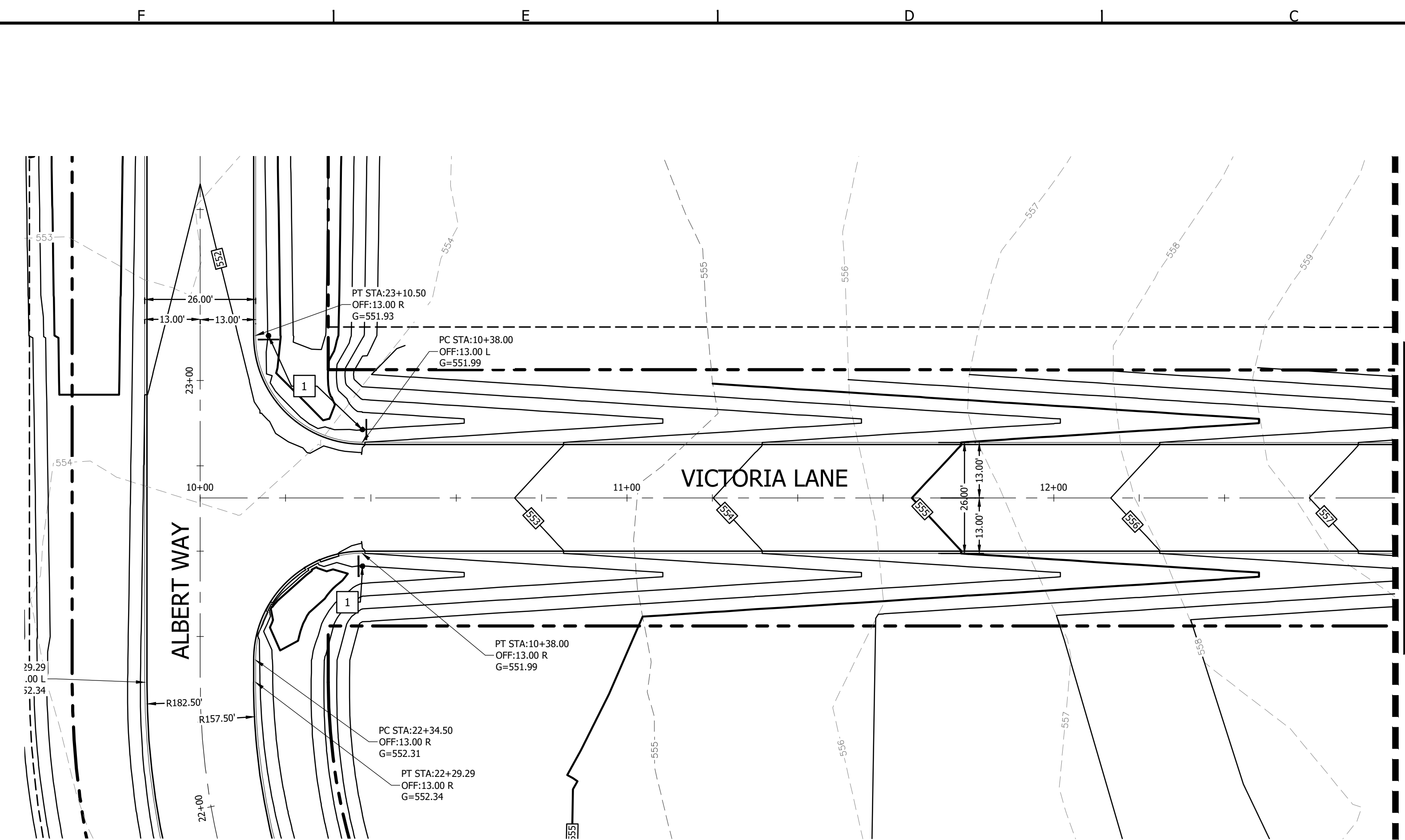
PLAN AND PROFILE ALBERT WAY - STA. 25+00 TO STA. 27+65.84



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APRIL 12, 2024



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

0 10' 20' 40'

LEGEND

- PROPERTY LINE / RIGHT-OF-WAY
- EASEMENT
- EXISTING GRADE
- PROPOSED GRADE
- RIBBON CURB
- WASHOUT CROWN

SITE PLAN KEY NOTES

1 TRAFFIC SIGNAGE (REFERENCE SHEET CR200)

ELEVATION EXISTING GRADE	14 12	ELEVATION PROPOSED GRADE
-----------------------------	----------	-----------------------------

210.860.9224

FROM NO: F-15085

**NOT AUTHORIZED FOR
CONSTRUCTION PRIOR TO
FORMAL CITY APPROVAL**

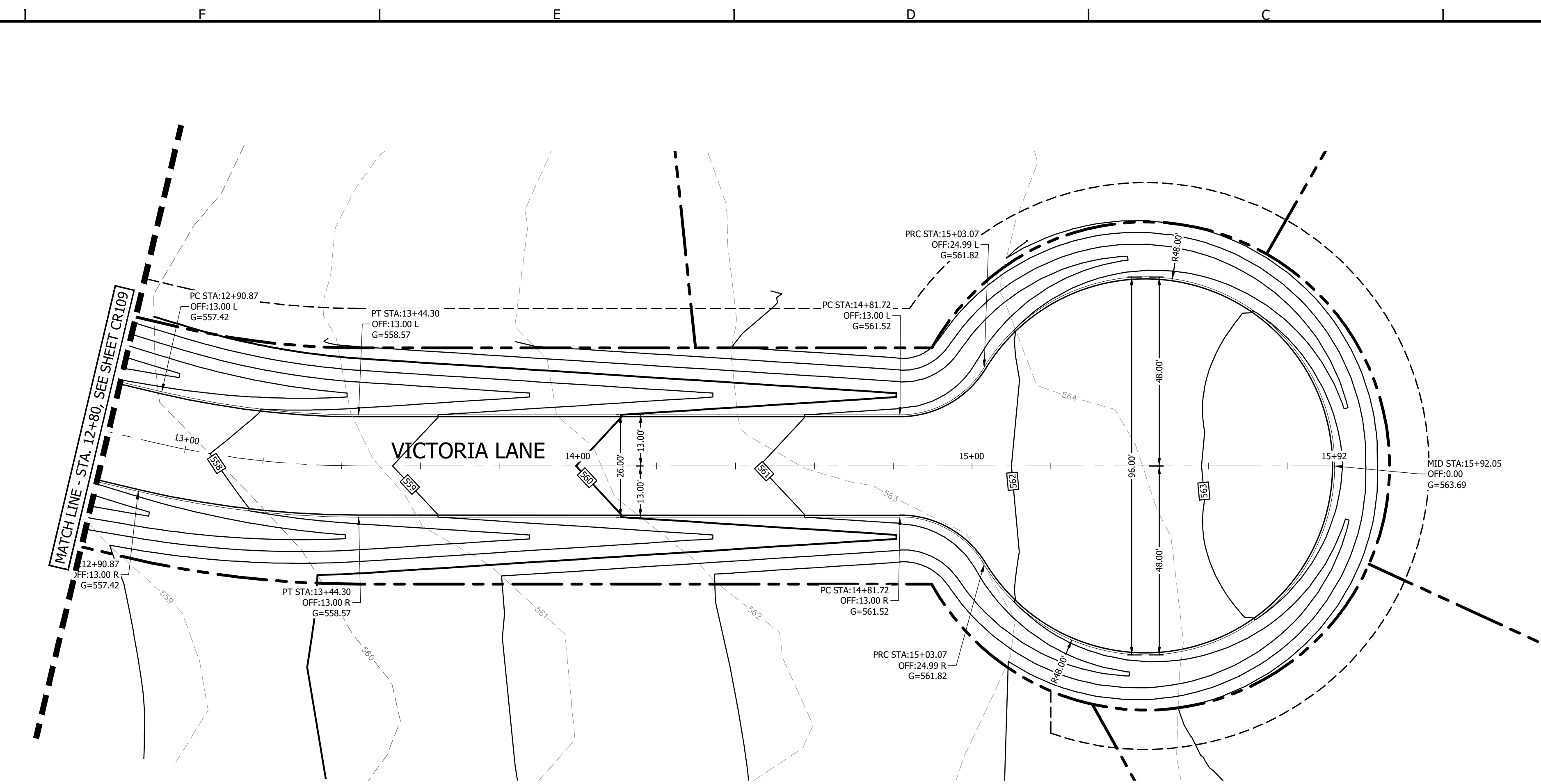
wgi.
146190
wgInc.com

AMANDA SALDIVAR
LICENSED PROFESSIONAL ENGINEER
4/12/2024

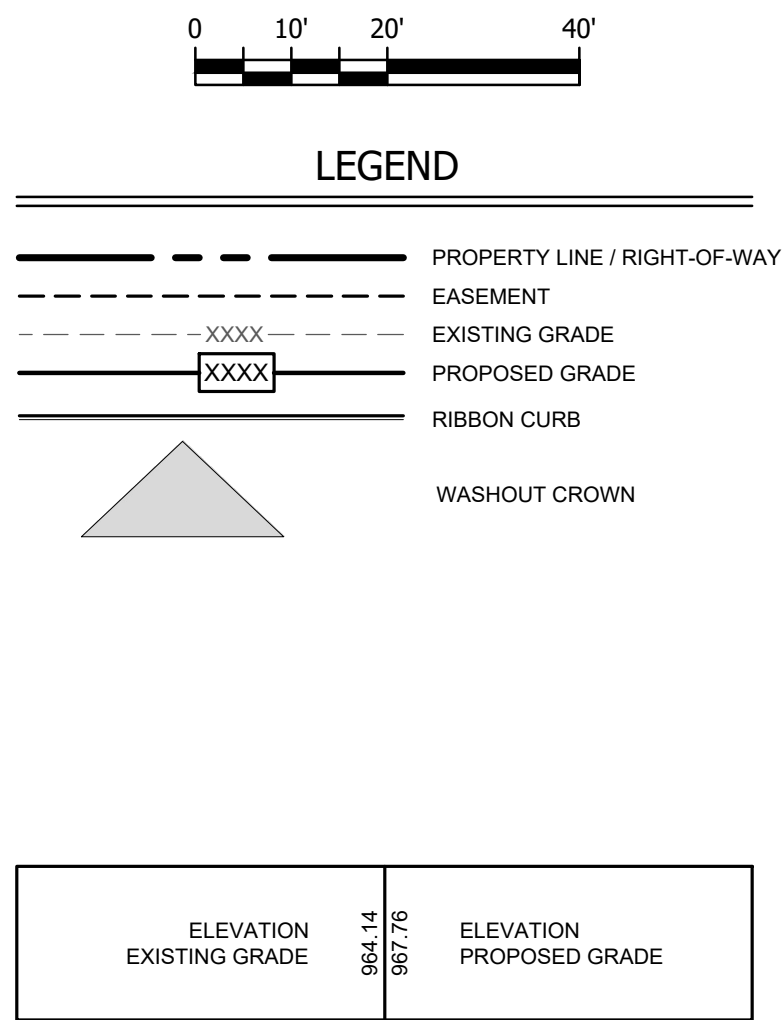
755 E. MULBERRY AVE. SUITE 501, SAN ANTONIO, TEXAS 78212

**INITIAL SUBMITTAL
APRIL 12, 2024**

NOT AUTHORIZED FOR
CONSTRUCTION PRIOR TO
FORMAL CITY APPROVAL



VICTORIA LANE
STA: 12+80 TO STA: 16+20
HORIZ: 1"=20
VERT: 1"=4



NOTES:

1. REFERENCE SHEET C600 FOR TYPICAL STREET SECTIONS AND PAVEMENT SECTIONS. REFERENCE GEOTECHNICAL REPORT FOR ADDITIONAL PAVEMENT SECTION RECOMMENDATION DETAILS.
2. REFERENCE SHEET C700 FOR TxDOT DETAILS.

CAUTION:

CONTRACTOR TO VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.


THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING ALL EXISTING UTILITIES BY CALLING DIGGERS 1-800-DIG-TESS FOR LOCATION OF ALL UTILITIES, AT LEAST 2 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.

KIOLBASSA ESTATES
15490 ST. HEDWIG ROAD
ST. HEDWIG, BEXAR COUNTY, TEXAS 78152

PLAN AND PROFILE VICTORIA LANE - STA. 12+80 TO STA. 15+12.05

24 FIRM NO.

WGI®
WGIInc.com



FIRM NO: F-15085

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FORMAL CITY APPROVAL

SHEET: 3/22/2024 11:16 AM
ROUTED BY: DAVID CARRENS
DRAWING: P:\00000000\00000000\Traffic\Signage\Stripping_Paving.dwg

- 1 = PUBLIC UTILITY & EMERGENCY ACCESS EASEMENT
2 = ELECTRIC EASEMENT

LEGEND

- BOUNDARY / RIGHT OF WAY
--- EASEMENT / SETBACK
--- RIBBON CURB

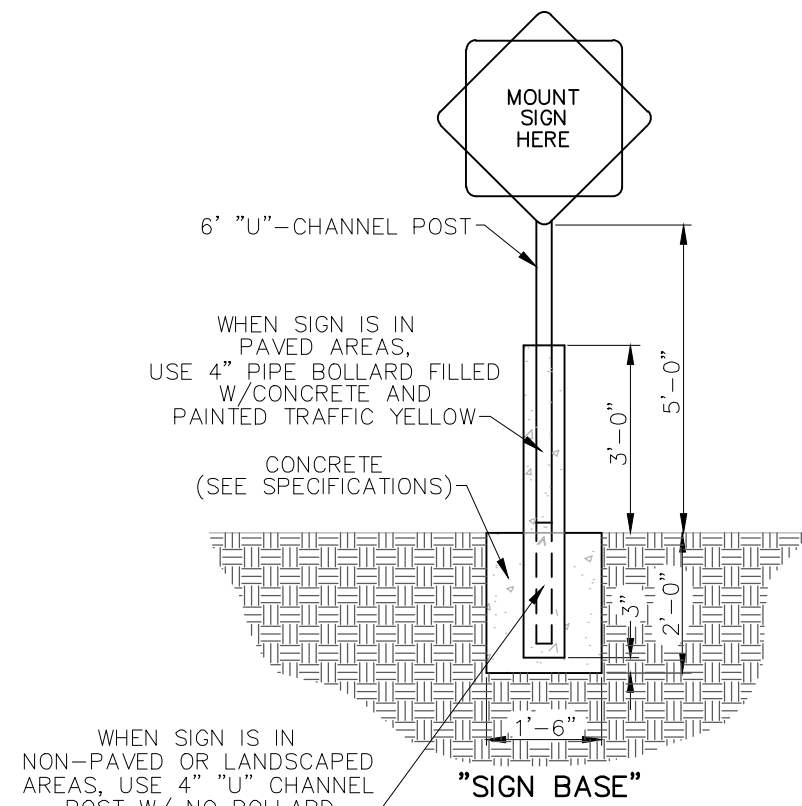
SITE PLAN KEY NOTES

- 1 CONTRACTOR TO SAWCUT AND MATCH EXISTING PAVEMENT.
2 ASPHALT DRIVE LANE. REFERENCE PAVEMENT SECTION ON C600
3 CONCRETE DRIVEWAY APRON

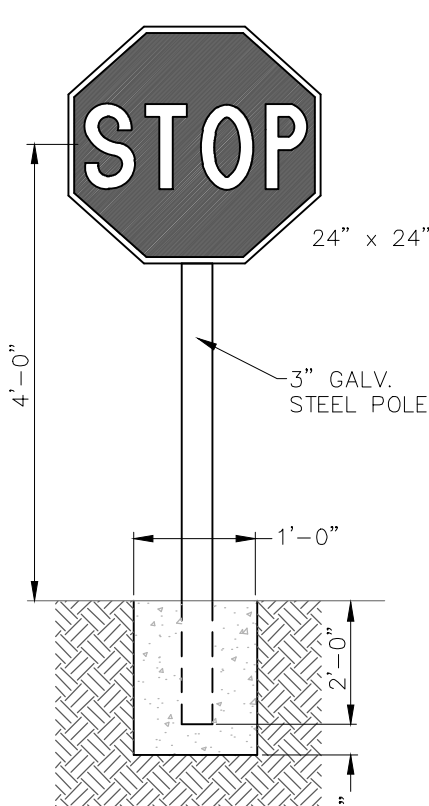
2.A	2.B	2.C
ST-024 ST. HEDWIG RD.	ST-024 PETERS PATH	ST-024 ALBERT WAY
ST-024 PETERS PATH	ST-024 ALBERT WAY	ST-024 VICTORIA LANE
TMUTCD R1-1 STOP	TMUTCD R1-1 STOP	TMUTCD R1-1 STOP

2.D	2.E
TMUTCD R2-1 SPEED LIMIT 10	TMUTCD W14-2 NO OUTLET

SIGN SUMMARY			
M.U.T.C.D. NUMBER	SPECIFICATION		DESCRIPTION
	WIDTH	HEIGHT	
R1-1	30"	30"	STOP
R2-1	24"	30"	SPEED LIMIT 10



TYPICAL SIGN AND BASE DETAIL
NOT TO SCALE

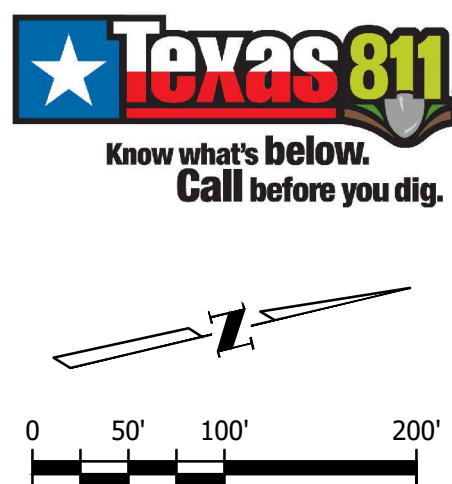


STOP SIGN
NOT TO SCALE

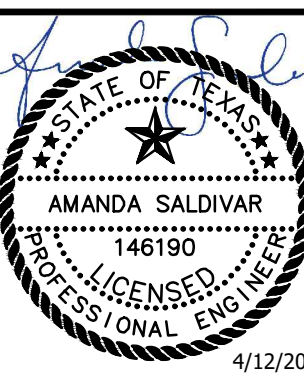
SITE PLAN NOTES

- ALL ITEMS ARE TO BE FURNISHED & INSTALLED BY THE CONTRACTOR. REFERENCE CONSTRUCTION DETAIL SHEET(S) FOR ADDITIONAL INFORMATION.
- ALL SITE DIMENSIONS ARE TO EDGE OF PAVEMENT, CENTER OF STRIPING, AND PROPERTY LINE, UNLESS OTHERWISE NOTED.
- LIMITS OF CONSTRUCTION ARE SHOWN ON THE "EROSION CONTROL PLAN" SHEET.
- REFERENCE GENERAL NOTES SHEET FOR ADDITIONAL SITE NOTES.
- REFERENCE COVER SHEET FOR ADDITIONAL SITE INFORMATION.
- THE SIZE AND LOCATION OF UTILITY STRUCTURES (IF SHOWN) MAY BE EXAGGERATED FOR GRAPHICAL CLARITY. THE SURVEY SHOWS FIELD MEASURED SIZES AND DEPTHS AS OBSERVED FROM GROUND LEVEL OPENINGS.
- ALL SIGNAGE, STRIPING, AND SIDEWALK RAMP(S) SHOWN ON THIS PLAN MUST BE BUILT IN ACCORDANCE TO THE CURRENT CITY OF ST. HEDWIG STANDARDS AND SPECIFICATIONS.
- CONTRACTOR TO COORDINATE WITH FIRE MARSHAL PRIOR TO INSTALLATION.

CAUTION:
CONTRACTOR TO VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY THE ENGINEER IMMEDIATELY FOR THE ACCURACY OF THE LOCATION OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING ALL EXISTING UTILITIES BY CALLING DIGTESS @ 1-800-DIG-TESS FOR LOCATION OF ALL UTILITIES, AT LEAST 2 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.



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INITIAL SUBMITTAL
APRIL 12, 2024

KIOLBASSA ESTATES
15490 ST. HEDWIG ROAD
ST. HEDWIG, BEXAR COUNTY, TEXAS 78152
TRAFFIC SIGNAGE STRIPING AND PAVING PLAN

SHEET
CR200
21 OF 28

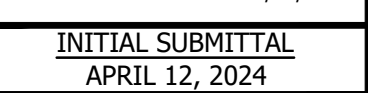


210.860.9324

FIRM NO. F-1585

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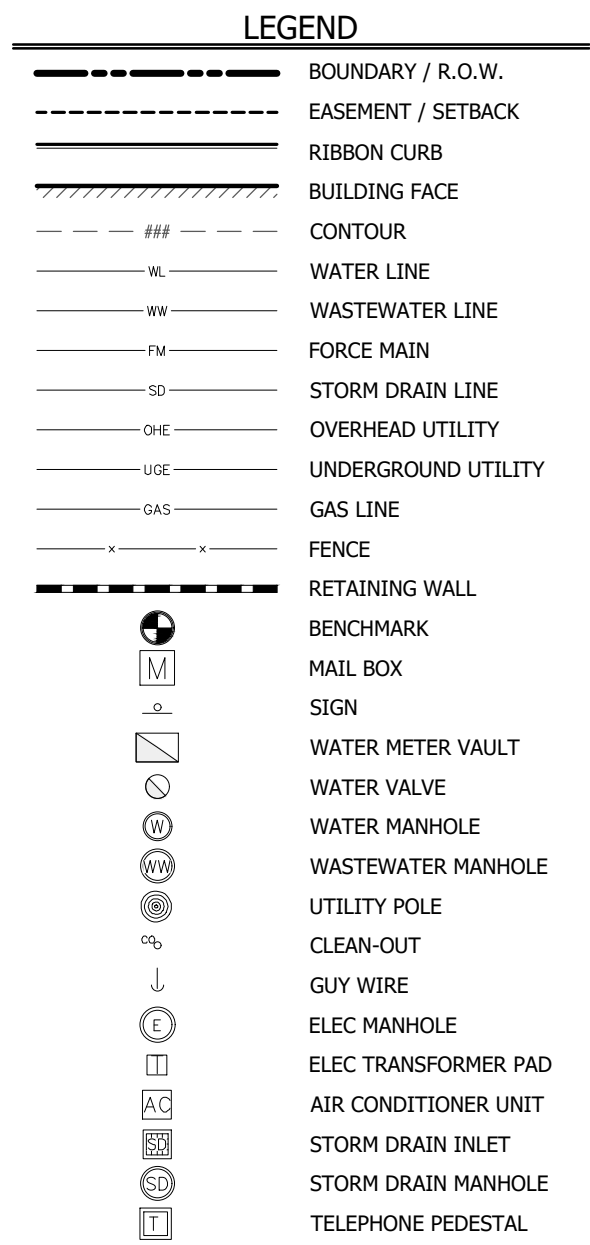
755 E. MULLBERRY AVE. SUITE 501, SAN ANTONIO, TEXAS 78212



UTILITY PLAN

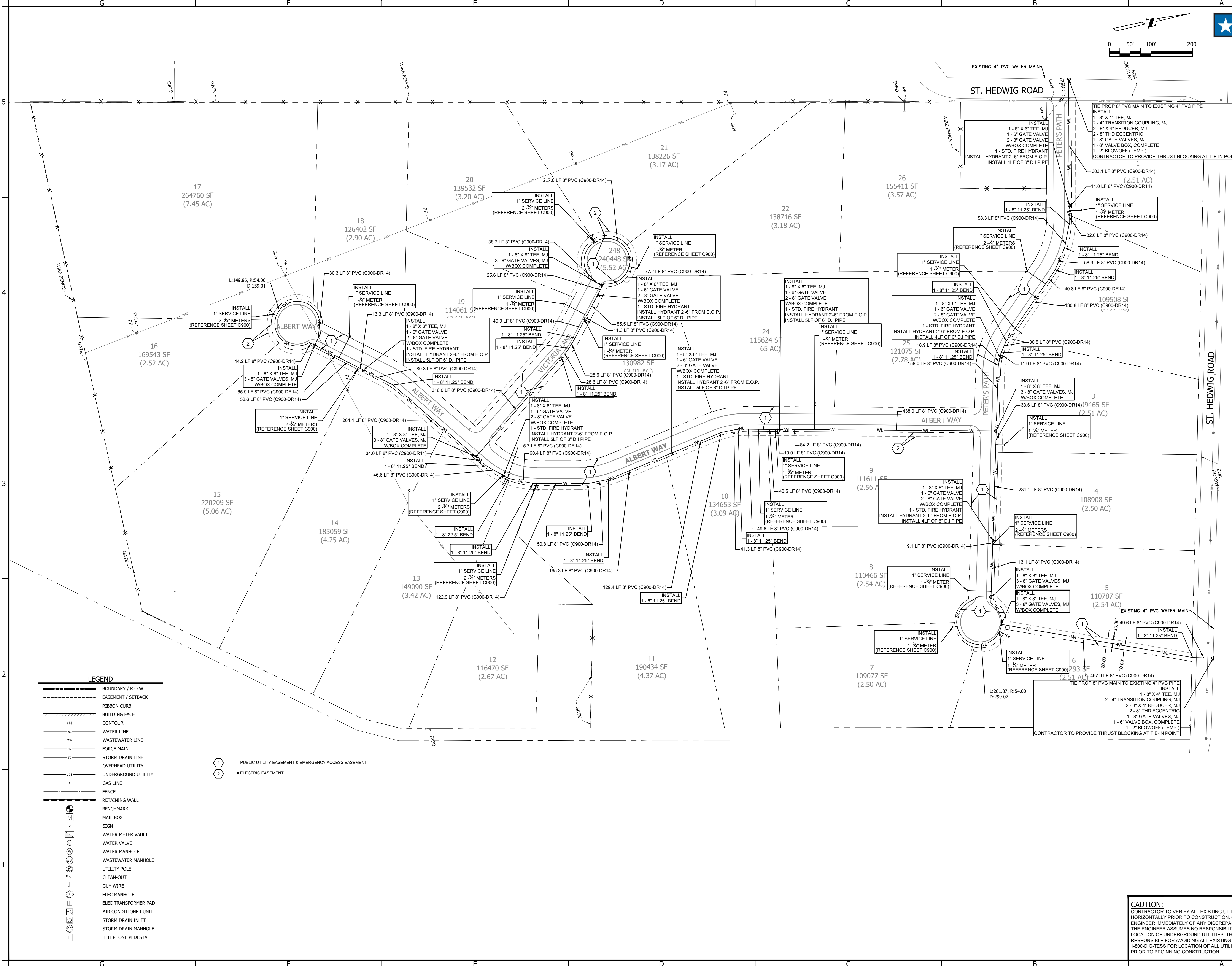
22 OF 28

CAUTION: CONTRACTOR TO VERIFY ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING ALL EXISTING UTILITIES BY CALLING DIGTESS @ 1-800-DIG-TESS FOR LOCATION OF ALL UTILITIES, AT LEAST 2 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.



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PLOTTED BY: DAVID QUIÑONES
DRAWING: P: 080018647.00 St Hedwig Prop 26 SF10 - Shst18647.00-CU10-Overall_Utility_Plan.dwg

SHEET: 4/12/2024 1:58 PM
DRAWN BY: DAVID CARRENS
CHECKED BY: DAVID CARRENS
DATE: 4/12/2024
PROJECT: 15490 ST. HEDWIG ROAD, BEXAR COUNTY, TEXAS 78152
SHEET: CU300 OF 28



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INITIAL SUBMITTAL
APRIL 12, 2024

KIOLBASSA ESTATES
15490 ST. HEDWIG ROAD
ST. HEDWIG, BEXAR COUNTY, TEXAS 78152

WATER PLAN

SHEET
CU300
23 OF 28

CAUTION:
CONTRACTOR TO VERIFY ALL EXISTING UTILITIES VERTICALLY AND
HORIZONTALLY PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY THE
ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE
LOCATION OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE
RESPONSIBLE FOR AVOIDING ALL EXISTING UTILITIES BY CALLING DIGTESS @
1-800-DIG-TESS FOR LOCATION OF ALL UTILITIES, AT LEAST 2 WORKING DAYS
PRIOR TO BEGINNING CONSTRUCTION.

SHEET 372.0024.1.00 PM
DRAWN BY: DAVID GARDNER
CHECKED BY: DAVID GARDNER
DATE: 11/15/2024
PROJECT: 15490 ST. HEDWIG RD. ST. HEDWIG, TEXAS 78152
SHEET 372.0024.1.00 PM

<div>9</div> <div>SCALE: N.T.S.</div> <div>TREE PROTECTION</div>		<div>8</div> <div>SCALE: N.T.S.</div> <div>TYPICAL CONSTRUCTION STAGING AREA</div>		<div>7</div> <div>SCALE: N.T.S.</div> <div>CONCRETE TRUCK WASHOUT PIT</div>	
<div>10</div> <div>SCALE: N.T.S.</div> <div>EROSION CONTROL NOTES</div>		<div>6</div> <div>SCALE: N.T.S.</div> <div>CURB INLET PROTECTION DETAIL</div>		<div>5</div> <div>SCALE: N.T.S.</div> <div>INLET PROTECTION BARRIERS</div>	
<div>1</div> <div>SCALE: N.T.S.</div> <div>CONSTRUCTION ENTRANCE</div>		<div>4</div> <div>SCALE: N.T.S.</div> <div>ROCK FILTER BERM</div>		<div>3</div> <div>SCALE: N.T.S.</div> <div>TRIANGULAR FILTER DIKE</div>	

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755 E. HULBERRY AVE. SUITE 201, SAN ANTONIO, TEXAS 78212

AMANDA SALDIVAR

148180

PROFESSIONAL ENGINEER

4/12/2024



INITIAL SUBMITTAL
APRIL 12, 2024

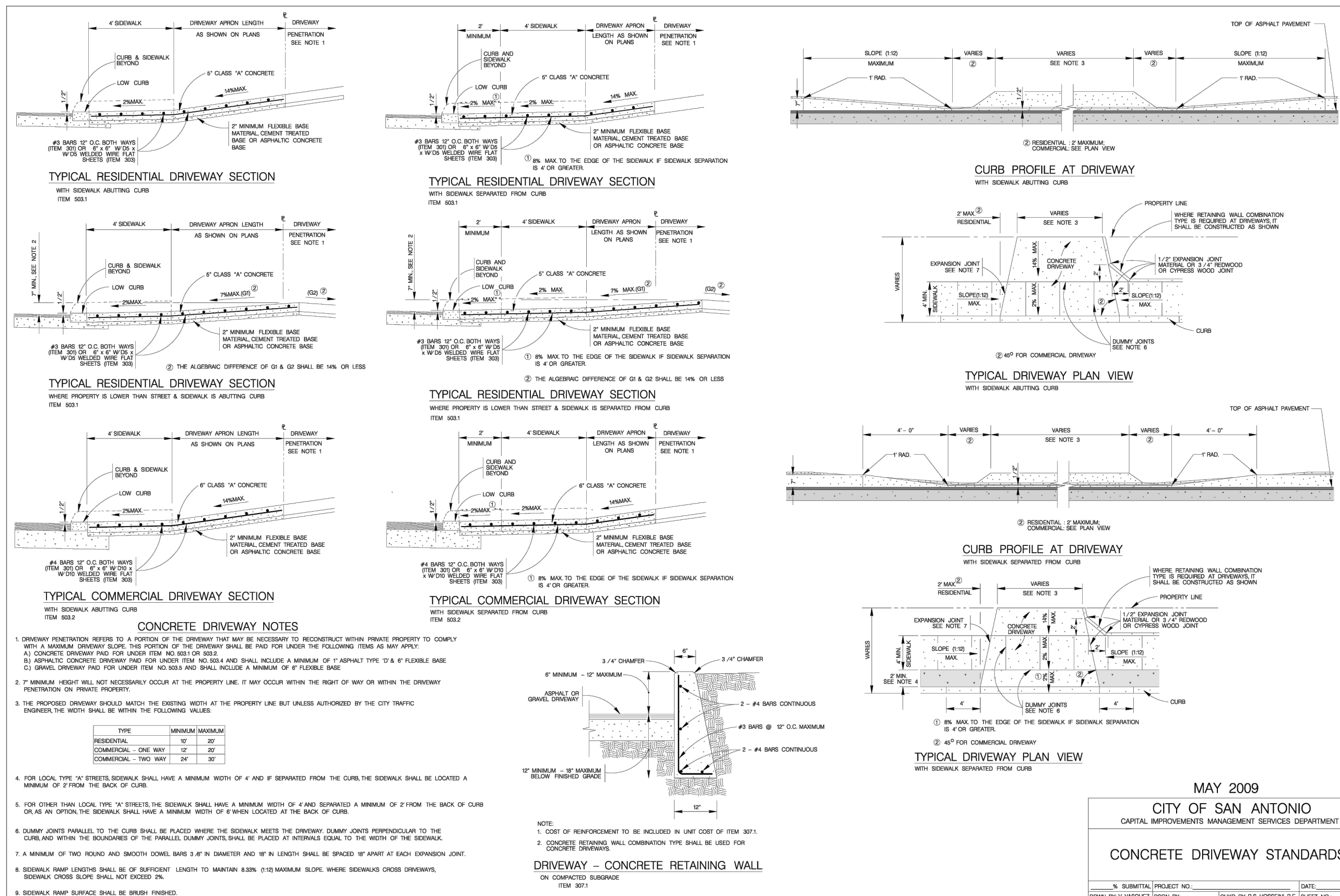
KIOLBASSA ESTATES
15490 ST. HEDWIG ROAD
ST. HEDWIG, BEXAR COUNTY, TEXAS 78152

EROSION CONTROL DETAILS

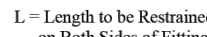
SHEET
C500
24 OF 28

[illegible]

<p>NOT AUTHORIZED FOR CONSTRUCTION PRIOR TO FORMAL CITY APPROVAL</p>		<p>FIRM NO: F-15085</p>	
<p>210.860.9224</p>		<p> wgi. wginc.com</p> <p>755 E. MULBERRY AVE., SUITE 501, SAN ANTONIO, TEXAS 78212</p>	
<p></p> <p>4/12/2024</p>		<p><u>INITIAL SUBMITTAL</u> APRIL 12, 2024</p>	
<p>KIOLBASSA ESTATES 15490 ST. HEDWIG ROAD ST. HEDWIG, BEXAR COUNTY, TEXAS 78152</p>		<p>SITE DETAILS</p>	
<p>SHEET</p>		<p>C600</p>	
<p>25 OF 28</p>		<p>----</p>	



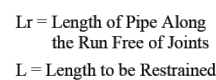
26 OF 28



RESTRAINED LENGTH DESIGN

1. These calculations are provided for reference. The restraint length shall be designed based upon the conditions encountered during installation.
2. All joints within the calculated length must be restrained.
3. If your distance between fittings is less than or equal to the calculated restraint length, restrain all joints between those fittings.

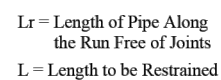
	RESTRAINED LENGTHS FOR HORIZONTAL BENDS	APPROVED	REVISED
		JULY 2022	
		DET-839-08	SHEET 1 OF 1



RESTRAINED LENGTH DESIGN


1. All joints within the calculated length must be restrained.
2. If your distance between fittings is less than or equal to the calculated restraint length, restrain all joints between those fittings.

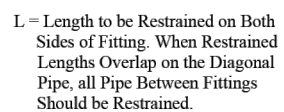
	RESTRAINED LENGTHS FOR TEES	APPROVED	REVISED
		MARCH 2020	
		DET-839-04	SHEET 1 OF 2



RESTRAINED LENGTH DESIGN

1. These calculations are intended for reference. The restrained length shall be designed based upon the conditions encountered during installation.
2. All joints within the calculated length must be restrained.
3. If your distance between fittings is less than or equal to the calculated restraint length, restrain all joints between those fittings.

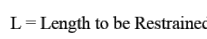
	RESTRAINED LENGTHS FOR TEES	APPROVED	REVISED
		MARCH 2020	
		DET-839-04	
		SHEET 2 OF 2	



RESTRAINED LENGTH DESIGN

2. All joints within the calculated length must be restrained.
3. If your distance between fittings is less than or equal to the calculated restraint length, restrain all joints between those fittings.

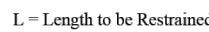
	RESTRAINED LENGTHS VERTICAL OFFSETS	APPROVED	REVISED
		JULY 2022	
		DET-839-06	SHEET 1 OF 1



RESTRAINED LENGTH DESIGN

1. All joints within the calculated length must be restrained.
2. All joints within the calculated length must be restrained.
3. If your distance between fittings is less than or equal to the calculated restraint length, restrain all joints between those fittings.

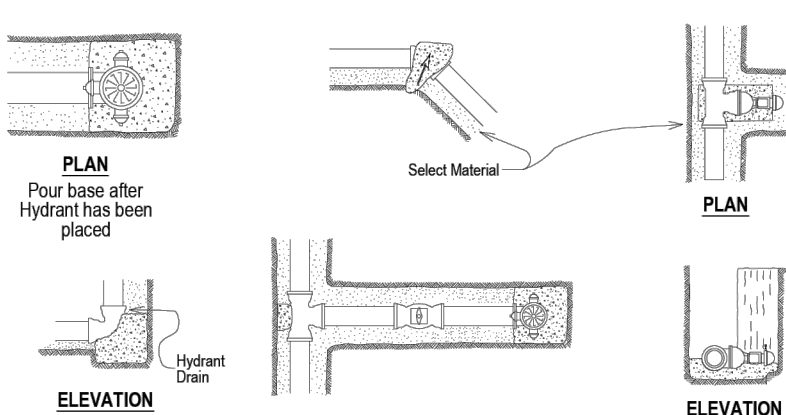
 East Central STATE <small>UNIVERSITY</small>	RESTRAINED LENGTHS FOR REDUCERS	APPROVED	REVISED
		JULY 2022	
		DET-839-07	SHEET 1 of 1



RESTRAINED LENGTH DESIGN

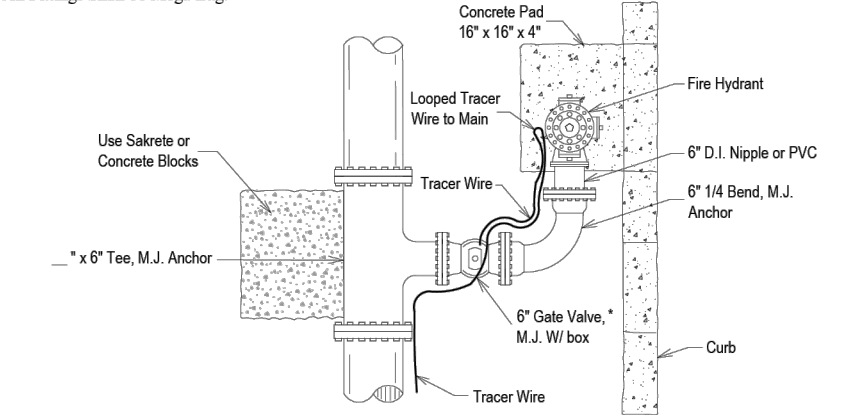
1. All joints within the calculated length must be restrained.
2. If your distance between fittings is less than or equal to the calculated restraint length, restrain all joints between those fittings.

	RESTRAINED LENGTHS FOR DEAD ENDS / INLINE VALVES	APPROVED	REVISED
		JULY 2022	
		DET-839-05	SHEET 1 OF 1




 EAST CENTRAL SUN OUR QUALITY IS CLEAR	THRUST BLOCKS FOR FITTINGS (WATER ONLY)	APPROVED	REVISED
		JULY 2022	
		DET-839-Ø1	
		SHEET 1 OF 1	

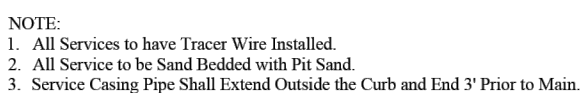
Concrete Pad
16" x 16" x 4"



	<p align="center">FIRE HYDRANT INSTALLATION</p>	APPROVED	REVISED
		JULY 2022	
		DET-834-01	SHEET 1 OF 1

East Central Region	INSTALLATION OF NON-GEARED	APPROVED
		JULY 2022

 East Central State University <small>1800.298.017 • 616.600</small>	INSTALLATION OF NON-GEARED GATE VALVE WITH VALVE BOX AND EXTENSION	APPROVED	REVISED
		JULY 2022	
		DET-828-01	
		SHEET	




 <p>East Central STATE UNIVERSITY OUR SOCIETY IS GLORIOUS</p>	<p>TYPICAL SERVICE ARRANGEMENT</p>	APPROVED	REVISED
		JULY 2022	
		<p>DET-824-05</p>	<p>SHEET 1 OF 4</p>

* Tailpieces Supplied by
ECSUD w/ Cost of Meter



 <p>East Central STATE UNIVERSITY OUR QUALITY IS GUARANTEED</p>	<p align="center">SERVICE INSTALLATION TAPPING SCHEDULE</p>	APPROVED	REVISED
		JULY 2022	
		<p align="center">DET-824-Ø1</p>	
		<p align="right">SHEET 1 OF</p>	

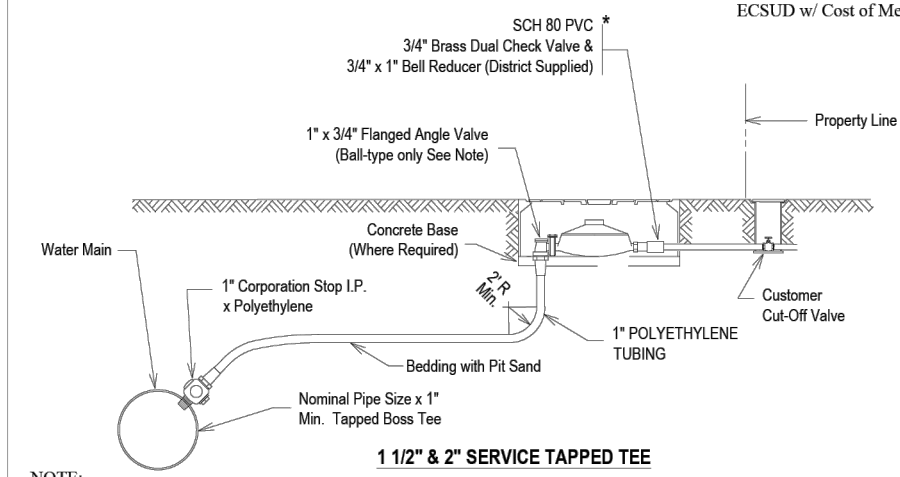


	2" PERMANENT BLOW-OFF ASSEMBLY 214-214-02	APPROVED	REVISED
		JULY 2022	
		DET 214-02	SHEET

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PLOT BY: DAVID GARDNER
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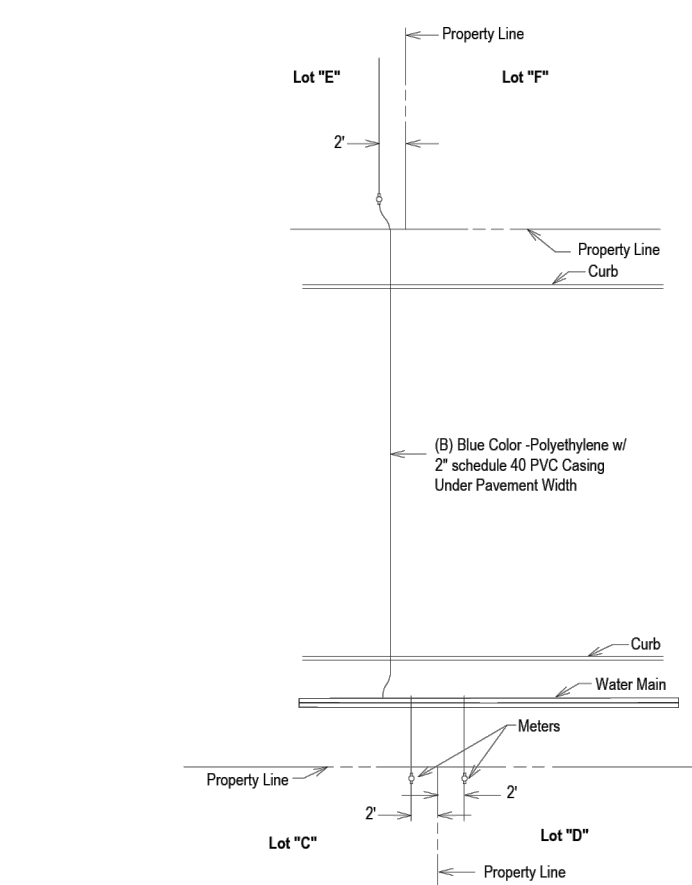
PIPE TAPPING SCHEDULE			
PIPE DIAMETER	1"	SERVICE SIZE	
		1 1/2"	2"
6" A.C.	Tap With Service Saddle	Tap With Service Saddle	Tap With Service Saddle
6" C.I. or D.I.	Tap With Service Saddle	Tap With Service Saddle	Tap With Service Saddle
8" A.C.	Tap With Service Saddle	Tap With Service Saddle	Tap With Service Saddle
8" C.I. or D.I.	Tap With Service Saddle	Tap With Service Saddle	Tap With Service Saddle
8" PVC	Tap With Service Saddle	Tap With Service Saddle	Tap With Service Saddle
10" A.C.	Tap With Service Saddle	Tap With Service Saddle	Tap With Service Saddle
10" C.I. or D.I.	Tap With Service Saddle	Tap With Service Saddle	Tap With Service Saddle
10" PVC	Tap With Service Saddle	Tap With Service Saddle	Tap With Service Saddle
12" A.C.	Tap With Service Saddle	Tap With Service Saddle	Tap With Service Saddle
12" C.I. or D.I.	Tap With Service Saddle	Tap With Service Saddle	Tap With Service Saddle
12" PVC	Tap With Service Saddle	Tap With Service Saddle	Tap With Service Saddle
16" A.C.	Tap With Service Saddle	Tap With Service Saddle	Tap With Service Saddle
16" C.I. or D.I.	Tap With Service Saddle	Tap With Service Saddle	Tap With Service Saddle

* Tailpieces Supplied by ECSUD w/ Cost of Meter



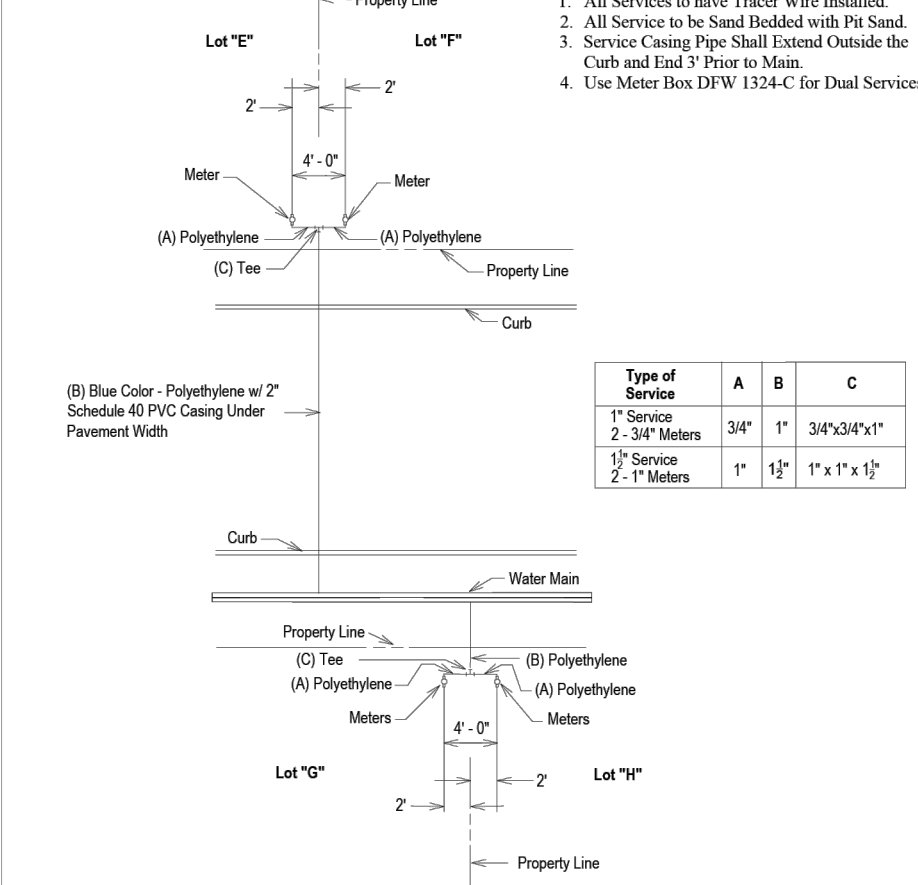
- NOTE:
- No Direct Tap to Main, Saddle Required
 - Anything Under 1 1/2" will use a angle valve with meter
 - Anything Greater Than 1 1/2" Will Use a Angle x Flange FOR PERFERED MANUFACTURERS SEE STANDARD SPECIFICATIONS

East Central SUD SOUTHERN UTILITY DISTRICT	SERVICE INSTALLATION TAPPING SCHEDULE	APPROVED	REVISED
		JULY 2022	
	DET-824-01		SHEET 1 OF 1



- NOTE:
- All Services to have Tracer Wire Installed.
 - All Service to be Sand Bedded with Pit Sand.
 - Service Casing Pipe Shall Extend Outside the Curb and End 3' Prior to Main.

East Central SUD SOUTHERN UTILITY DISTRICT	TYPICAL SERVICE ARRANGEMENT	APPROVED	REVISED
		JULY 2022	
	DET-824-05		SHEET 1 OF 4



- NOTE:
- All Services to have Tracer Wire Installed.
 - All Service to be Sand Bedded with Pit Sand.
 - Service Casing Pipe Shall Extend Outside the Curb and End 3' Prior to Main.

East Central SUD SOUTHERN UTILITY DISTRICT	TYPICAL RURAL SERVICE ARRANGEMENT	APPROVED	REVISED
		JULY 2022	
	DET-824-05		SHEET 2 OF 4

NOT AUTHORIZED FOR
CONSTRUCTION PRIOR TO
FORMAL CITY APPROVAL

FIRM NO. F-15085

210.860.9224

WGI.
WGInc.com

755 E. MULBERRY AVE, SUITE 501, SAN ANTONIO, TEXAS 78212



INITIAL SUBMITTAL
APRIL 12, 2024

KIOLBASSA ESTATES
15490 ST. HEDWIG ROAD
ST. HEDWIG, BEXAR COUNTY, TEXAS 78152

WATER DETAILS