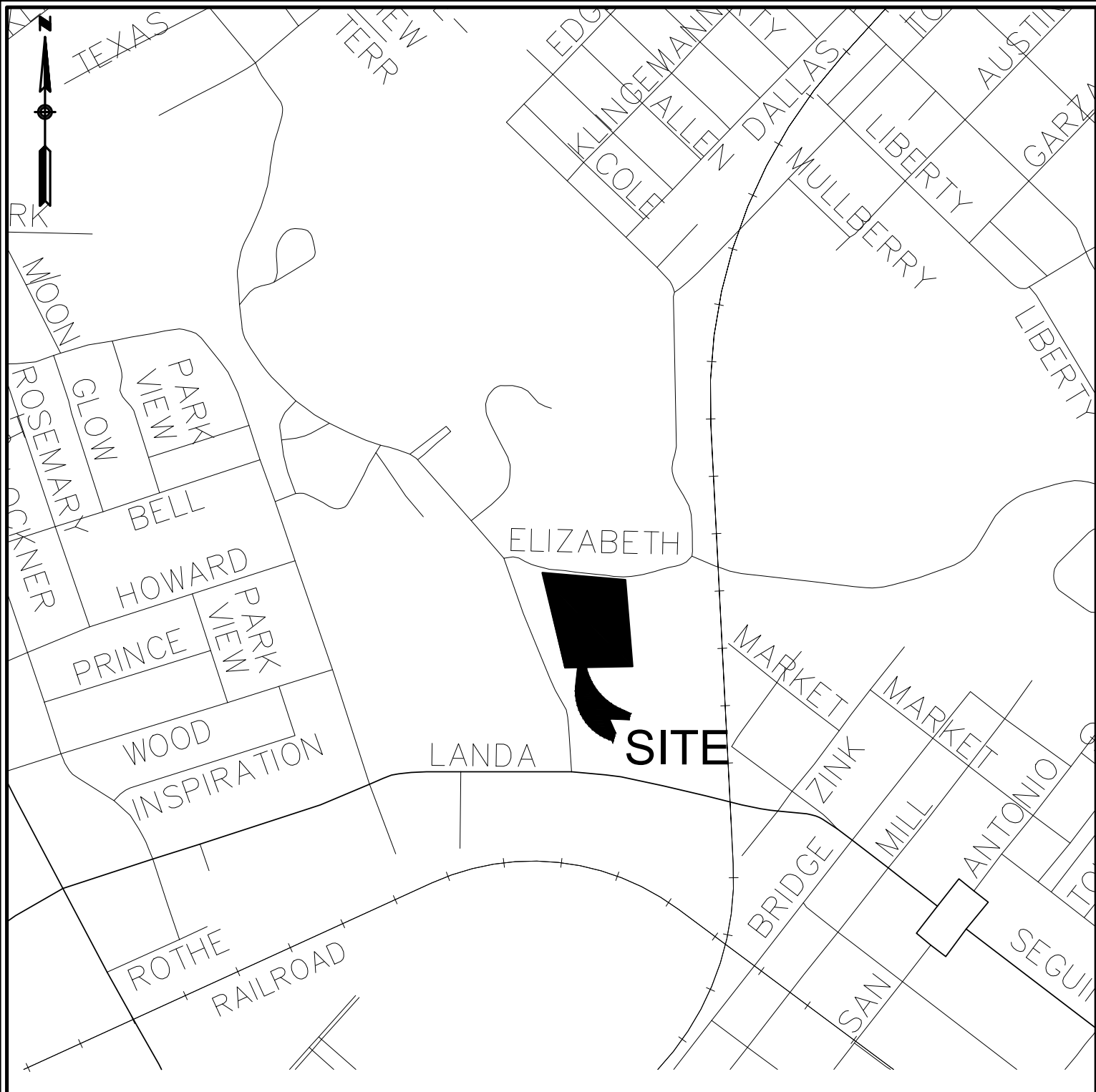


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PROJECT LOCATION MAP

SCALE: N.T.S.

PROJECT BENCHMARK

SITE TBM #1
SET MAGSPIKE HMT IN ASPHALT
N: 2244240.0123
E: 13805717.2343
ELEV: 629.18'

SITE TBM #2
SET MAGSPIKE HMT IN ASPHALT
N: 2244365.3756
E: 13805526.0101
ELEV: 622.82'

LEGAL DESCRIPTION

BEING OUT OF A CALLED 9.83 ACRE TRACT, KNOWN AS "OLD MILL TRACT", RECORDED IN VOLUME 84, PAGE 293, DEED RECORDS, COMAL COUNTY, TEXAS.

PLEASE NOTE: NBU REQUIRES GPS POINTS FOR CERTAIN ELECTRIC, WATER AND WASTEWATER ATTRIBUTES, SOME OF WHICH MUST BE TAKEN PRIOR TO BACKFILL DURING CONSTRUCTION.

GPS POINTS SHALL BE REQUIRED FROM THE DEVELOPER'S CONTRACTOR OR ENGINEER. A MINIMUM OF THREE COORDINATE POINTS FOR GEOREFERENCING SHALL BE REQUIRED. THE WATER AND WASTEWATER GPS POINTS SHALL BE TO SURVEY GRADE. THE ELECTRIC GPS POINTS SHALL BE TO MAP GRADE.

WATER
VERTICAL BENDS AND EDGE OF STEEL CASING (IF APPLICABLE) PRIOR TO BACKFILL
HORIZONTAL BENDS PRIOR TO BACKFILL
TEES PRIOR TO BACKFILL
FITTINGS (REDUCERS AND COUPLINGS) PRIOR TO BACKFILL
FIRE HYDRANTS (TOP OF FLANGE)
VALVES
METERS (TOP CENTER OF BOX)
BLOW OFF ASSEMBLY
CORNER SLAB OF WATER TANK & GATE VALVE ON WATER TANK

WASTEWATER
MANHOLES
CLEANOUTS
CORNER SLAB OF LIFT STATION

ELECTRIC
POLES
TRANSFORMERS, BOTH ABOVE AND UNDERGROUND (FRONT LOCK)
PULL BOXES
STREET LIGHTS

COORDINATE GPS REQUIREMENTS WITH NBU INSPECTOR

- GENERAL NOTES:
- IF CONSTRUCTION HAS NOT COMMENCED WITHIN ONE-YEAR OF CITY APPROVAL FOR CONSTRUCTION INSPECTION, THAT APPROVAL IS NO LONGER VALID.
 - THE MOST CURRENT EDITIONS OF THE CITY OF SAN ANTONIO STANDARD SPECIFICATIONS AND THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES SHALL BE FOLLOWED FOR ALL CONSTRUCTION EXCEPT AS AMENDED BY THE CITY OF NEW BRAUNFELS STANDARD DETAILS.
 - ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER OF RECORD. IN ACCEPTING THESE PLANS, THE CITY OF NEW BRAUNFELS MUST RELY UPON THE ADEQUACY OF THE WORK OF THE ENGINEER IN RECORD.
 - PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL CONTACT THE CITY OF NEW BRAUNFELS TO SET A PRE-CONSTRUCTION MEETING. A 48-HOUR ADVANCED NOTIFICATION IS REQUIRED FOR ALL INSPECTION AND MEETING REQUESTS.

4.1 ALL INSPECTIONS ARE TO BE CALLED IN AT 830-221-4068 OR,

4.2 FAXED IN AT 830-608-2117 OR,

4.3 E-MAILED AT INSPECTIONS@NBTEXAS.ORG.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL TEMPORARY AND PERMANENT TRAFFIC CONTROL DEVICES ARE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE PLANS AND LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. IF THE NEED ARISES, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES MAY BE ORDERED BY THE ENGINEERING REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
 - DRAINAGE IMPROVEMENTS SUFFICIENT TO MITIGATE OFFSITE IMPACT OF CONSTRUCTION MUST BE COMPLETED AND IN PLACE PRIOR TO ADDING IMPERVIOUS COVER TO THE SITE.
 - THIS DEVELOPMENT IS A TYPE 3 DEVELOPMENT.
 - A PORTION OF THIS DEVELOPMENT IS LOCATED WITHIN ZONE AE SPECIAL FLOOD HAZARD AREA (100 YR. FLOOD), AS DEFINED BY THE COMAL COUNTY, TEXAS. FIRM PANEL NUMBER 48091C0435F EFFECTIVE DATE SEPT. 2, 2009, AS PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.
 - THIS PROJECT IS LOCATED WITHIN THE EDWARDS-AQUIFER TRANSITION ZONE.

WURSTFEST MARKTPLATZ RECONSTRUCTION

NEW BRAUNFELS, TEXAS

WURSTFEST ASSOCIATION OF NEW BRAUNFELS

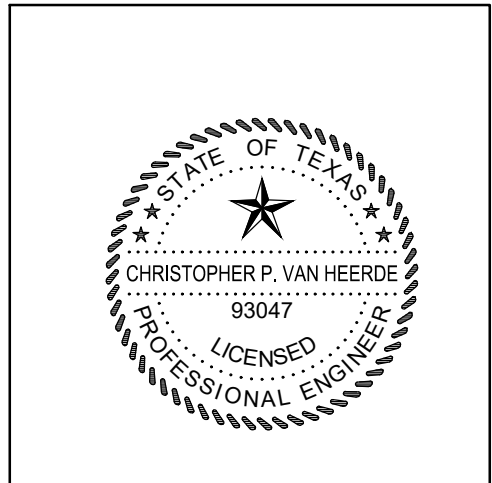
P.O. BOX 310309

NEW BRAUNFELS, TEXAS 78130

CIVIL SITE CONSTRUCTION PLANS

REQUIRED PERMITS	NUMBER
1. CITY OF NEW BRAUNFELS	# CP2020-173 FL2020-0048
2. NEW BRAUNFELS UTILITIES	# W-171306 WW-171307

APRIL 2020



04/14/2020

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER OF RECORD. IN ACCEPTING THESE PLANS, THE CITY OF NEW BRAUNFELS MUST RELY UPON THE ADEQUACY OF THE WORK OF THE ENGINEER OF RECORD.

Christopher P. Van Heerde
P.E. Registration No. 93047

PREPARED BY:



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NEW BRAUNFELS, TX 78130
HMTNB.COM
P(830)625-8555*F(830)625-8556
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TBPLS FIRM 1053600



NOTE TO CONTRACTOR:

BY THE ACT OF SUBMITTING A BID FOR THIS PROPOSED CONTRACT, THE BIDDER WARRANTS THAT THE BIDDER, AND ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS HE INTENDS TO USE HAVE CAREFULLY AND THOROUGHLY REVIEWED THE DRAWINGS, SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS AND HAVE FOUND THEM COMPLETE AND FREE FROM ANY AMBIGUITIES AND SUFFICIENT FOR THE PURPOSE INTENDED. THE BIDDER FURTHER WARRANTS THAT TO THE BEST OF HIS OR HIS SUBCONTRACTORS' AND MATERIAL SUPPLIERS' KNOWLEDGE, ALL MATERIALS AND PRODUCTS SPECIFIED OR INDICATED HEREIN ARE ACCEPTABLE FOR ALL APPLICABLE CODES AND AUTHORITIES.

THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS HAS BEEN BASED UPON RECORD INFORMATION ONLY AND MAY NOT MATCH LOCATIONS AND/OR DEPTHS AS CONSTRUCTED. THE CONTRACTOR SHALL CONTACT EACH OF THE INDIVIDUAL UTILITIES FOR ASSISTANCE IN DETERMINING EXISTING UTILITY LOCATIONS AND DEPTHS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL UTILITY CROSSINGS PRIOR TO BEGINNING ANY CONSTRUCTION.

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CURB CUT DUE TO CONSTRUCTION OF NEW RIGHT-OF-WAY CONSTRUCTION
(INDICATE THE 2 OPTIONS ON THE CONSTRUCTION PLANS).
1.SAWCUT EXISTING STREET AND MATCH TO NEW CONSTRUCTION.
2.SAWCUT EXISTING CURB TO TIE INTO EXISTING CONSTRUCTION.

CONSTRUCTION STABILIZED ENTRANCE
SAWCUT CURB FOR CONSTRUCTION ENTRANCE.

STABILIZED CONSTRUCTION AREA SHALL BE CONSTRUCTED OF 3'X5" ROCK TO BE PLACED A MINIMUM LENGTH OF 25-FT. AND MAINTAINED SO THAT CONSTRUCTION DEBRIS DOES NOT FALL WITHIN THE CITY RIGHT-OF-WAY. RIGHT- OF-WAY MUST BE CLEARED FROM MUD, ROCKS, ETC. AT ALL TIMES.

(NOTES TO BE PLACED ON ALL HW PLAN & DETAIL SHEETS)

ENSURE ALL DRIVEWAY APPROACHES ARE BUILT IN GENERAL ACCORDANCE WITH A.D.A. SPECIFICATIONS. NO VALVES, HYDRANTS, ETC. SHALL BE CONSTRUCTED WITHIN CURBS, SIDEWALKS, OR DRIVEWAYS.

SIGNING AND PAVEMENT MARKING PLAN NOTES

THE CONTRACTOR SHALL FURNISH AND INSTALL ALL REGULATORY AND WARNING SIGNS, STREETS NAME SIGNS AND SIGN MOUNTS IN ACCORDANCE WITH APPROVED ENGINEERING PLANS. THE CITY WILL INSPECT ALL SIGNS AT FINAL INSPECTION.

THE CONTRACTOR SHALL INSTALL ALL PAVEMENT MARKINGS IN ACCORDANCE WITH APPROVED ENGINEERING PLANS. THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST TWENTY-FOUR (24) HOURS PRIOR TO THE INSTALLATION OF ALL SEALER AND FINAL MARKINGS. THE CITY WILL INSPECT ALL MARKINGS AT FINAL APPLICATION.

SEEDING AND ESTABLISHMENT OF VEGETATION WITHIN EARTHEN CHANNELS, STORMWATER BASINS AND DISTURBED AREAS

SEEDING FOR THE PURPOSE OF ESTABLISHING VEGETATION WITHIN CONSTRUCTED EARTHEN CHANNELS, BASINS AND DISTURBED AREAS SHALL BE CONDUCTED IN ACCORDANCE WITH ITEM 164 (SEEDING FOR EROSION CONTROL) OF TXDOT'S STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES MANUAL. ONLY SEED TYPES AND MIXES SPECIFIED FOR THE SAN ANTONIO DISTRICT (DISTRICT 15) IN TABLES 1 AND 2 UNDER ITEM 164 SHALL BE UTILIZED DURING THE COOL SEASON (SEPT 1-NOV 30). CEREAL RYE AND SEED SPECIES SPECIFIED FOR THE SAN ANTONIO DISTRICT IN TABLE 3 MAY BE USED. FOR COOL SEASON SEEDING APPLICATIONS, COOL SEASON SEED MIXES SHALL BE USED IN CONJUNCTION WITH SEED MIXES FOR THE SAN ANTONIO DISTRICT AS SPECIFIED IN TABLE 1 AND 2 UNDER ITEM 164.

IT MAY BE DEEMED NECESSARY TO INCORPORATE TOPSOIL AND SOIL AMENDMENTS (I.E. COMPOST/ FERTILIZER) INTO EXISTING SOIL IN ORDER TO FACILITATE VEGETATION GROWTH. TOPSOIL, COMPOST AND FERTILIZER ADDITIONS SHALL BE CONDUCTED ACCORDING TO ITEMS 160, 161 AND 166 OF TXDOT'S STANDARD SPECIFICATIONS MANUAL, RESPECTIVELY.

WATERING MAY ALSO BE NECESSARY TO FACILITATE AND EXPEDITE THE SPROUTING AND GROWTH OF VEGETATION. ITEM 168 OF TXDOT'S STANDARD SPECIFICATIONS MANUAL SHALL BE ADHERED TO FOR VEGETATIVE WATERING.

IF EXTENDED DROUGHT CONDITIONS EXIST THAT HINDER OR PROHIBIT THE GROWTH AND ESTABLISHMENT OF VEGETATION, THE CONTRACT/ DEVELOPER SHALL PROVIDE A PLAN TO THE CITY OF NEW BRAUNFELS DESCRIBING THE MEASURES THAT WILL BE TAKEN TO STABILIZE EARTHEN DRAINAGE INFRASTRUCTURE UNTIL A TIME WHEN GROWING CONDITIONS BECOME MORE FAVORABLE.



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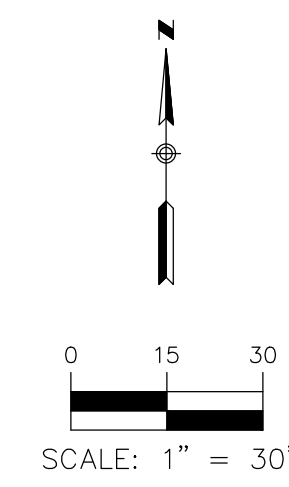


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Checked CVH/SWH
Date 04/14/2020
Project No. 063.005
Revisions

SHEET TITLE
CONSTRUCTION
NOTES (2 OF 2)

SHEET NO.

C0.3_FL



LOCATION OF EXISTING UNDERGROUND UTILITIES BEYOND
WHAT IS SHOWN ON PLANS ARE NOT KNOWN.
CONTRACTOR SHALL REMOVE ALL ABANDONED SERVICE
LINES ENCOUNTERED AND CAP PIPES AT LIMITS OF
DISTURBED AREAS AS NECESSARY.

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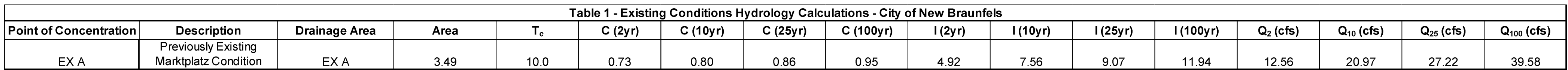
MARK I PLAZA
WURTSFEST
178 LANDA PARK DR
NEW BRAUNFELS TX 78130



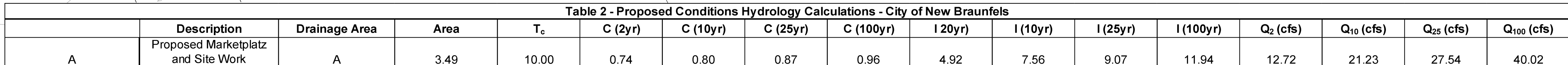
ET NO.

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

C1.0_FL

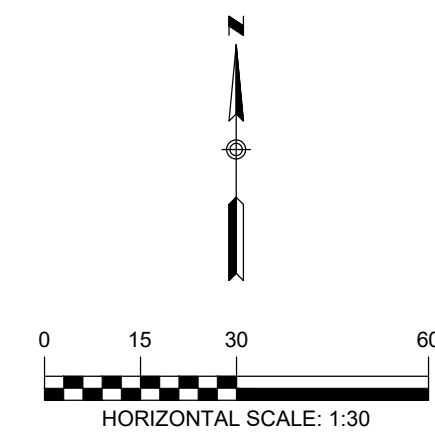


C2.0_FL



Point of Concentration	Drainage Area	Q ₂ (cfs)	Q ₁₀ (cfs)	Q ₂₅ (cfs)	Q ₁₀₀ (cfs)
EXA	EXA	12.56	20.97	27.22	39.58
A	A	12.72	21.23	27.54	40.02
Proposed is Less Than or Equal to Existing		NO	NO	NO	NO

Table 2 - Proposed Conditions Hydrology Calculations - City of New Braunfels																
	Description	Drainage Area	Area	T _c	C (2yr)	C (10yr)	C (25yr)	C (100yr)	I (20yr)	I (10yr)	I (25yr)	I (100yr)	Q ₂ (cfs)	Q ₁₀ (cfs)	Q ₂₅ (cfs)	Q ₁₀₀ (cfs)
A	Proposed Marketplace and Site Work	A	3.49	10.00	0.74	0.80	0.87	0.96	4.92	7.56	9.07	11.94	12.72	21.23	27.54	40.02



BYRNE
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Marmomok
ARCHITECTURE

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178 LANDA PARK DR
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PROJECT TITLE

PROPOSED
DRAINAGE
AREA MAP

PROJECT NO.

C2.1_FL

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NOTE:

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITIES HAVE CEASED (TEMPORARILY OR PERMANENT) AND SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITY RESUMES IN 21 DAYS, PER TIDES REQUIREMENTS. SEEDING DOES NOT CONSTITUTE AS STABILIZATION.

- LEGEND**
- EXISTING CONTOURS
 - PROPOSED CONTOURS
 - B.L. BUILDING SETBACK LINE
 - U.E. UTILITY EASEMENT
 - D.E. DRAINAGE EASEMENT
 - DRAINAGE FLOW DIRECTION
 - SF SILT FENCE
 - LOC LIMIT OF CONSTRUCTION
 - STABILIZED CONSTRUCTION ENTRANCE
 - GRADING BREAKLINES
 - FILTER DIKE CURB INLET PROTECTION

SEQUENCE OF CONSTRUCTION

1. INSTALL EROSION CONTROLS PER APPROVED PLAN.
2. TEMPORARY CONTROLS TO BE INSPECTED AND MAINTAINED WEEKLY AND PRIOR TO ANTICIPATED RAINFALL EVENTS, AND AFTER RAINFALL EVENTS, AS NEEDED. CONTRACTOR/OWNER SHALL PROVIDE A CONTACT NAME AND NUMBER FOR EROSION CONTROL ISSUES.
3. CONDUCT DEMOLITION ACTIVITIES, IF APPLICABLE.
4. CONSTRUCT DRAINAGE IMPROVEMENTS, IF APPLICABLE.
5. CONSTRUCT CURB INLET PROTECTION AT THE TIME OF CURB INLET INSTALLATION.
6. CONSTRUCT DEVELOPMENT PER APPROVED PLANS.
7. INSTALL STREETScape AND/OR LANDSCAPING IMPROVEMENTS.
8. CONTRACTOR TO VEGETATE ANY DISTURBED AREAS ONCE FINAL GRADING IS COMPLETE, AND ESTABLISH A MIN OF 80% VEGETATION PRIOR TO COMPLETION. PER TIDES REQUIREMENTS, DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITIES HAVE CEASED (TEMPORARILY OR PERMANENTLY) SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITY RESUMES WITHIN 21 DAYS. SEEDING DOES NOT CONSTITUTE AS STABILIZATION.
9. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.
10. TIDES REQUIREMENTS - DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITIES HAVE CEASED (TEMPORARY OR PERMANENTLY) SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITY WILL BEGIN AGAIN WITHIN 21 DAYS.

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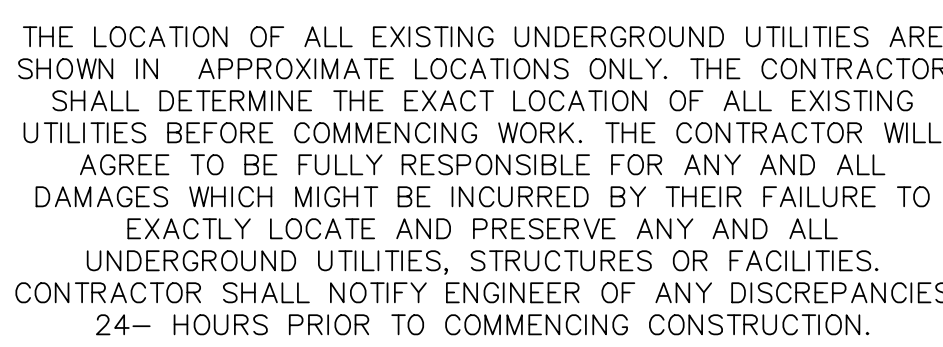
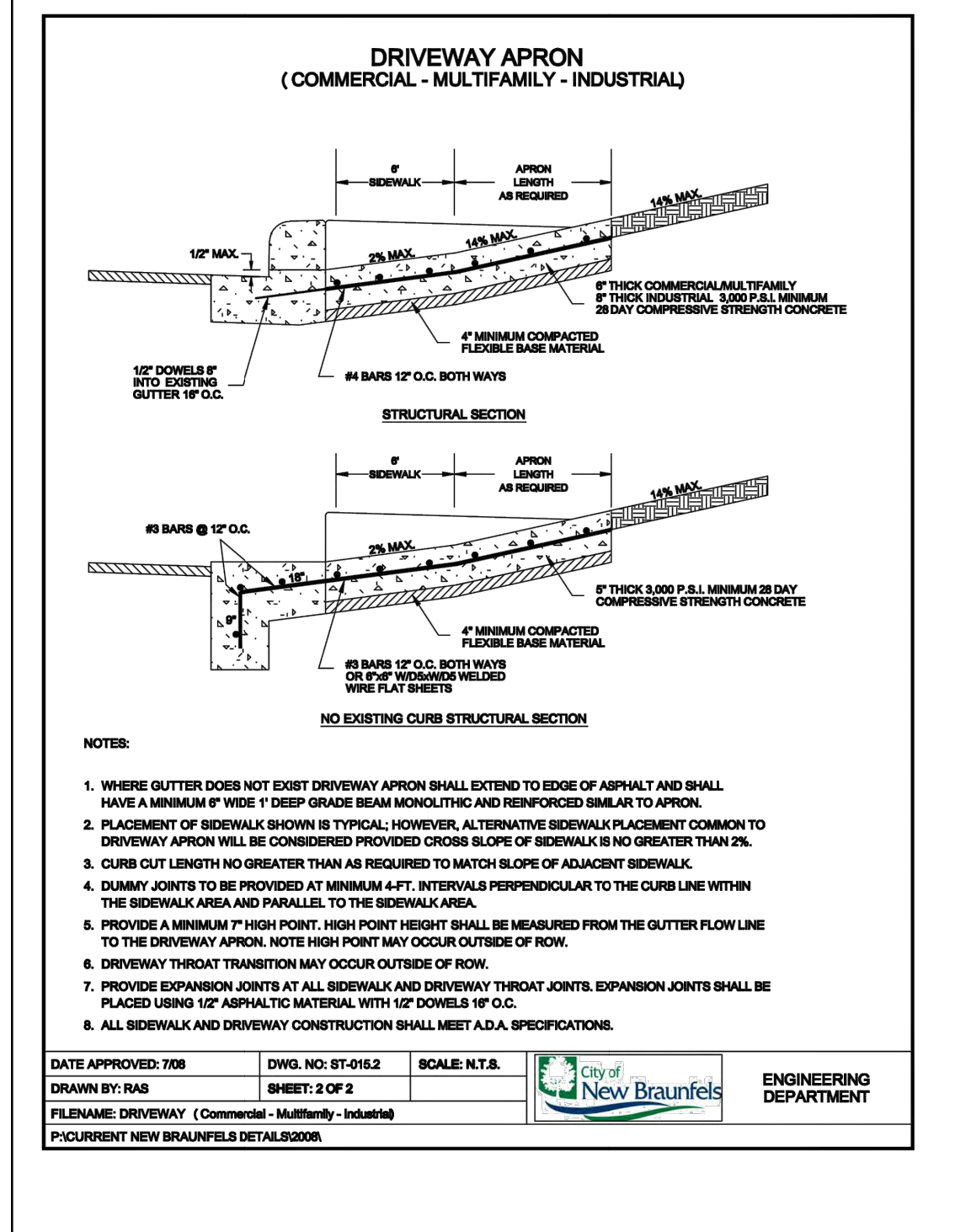
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Date: 04/14/2020
Project No.: 063.005
Revisions:

SHEET TITLE

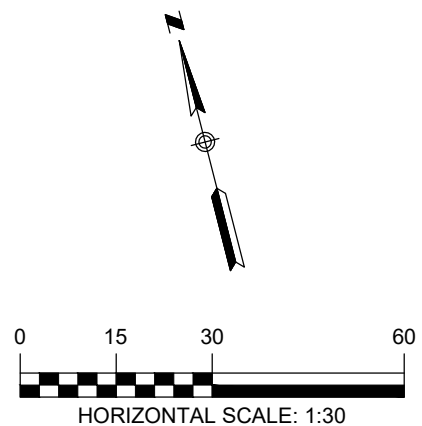
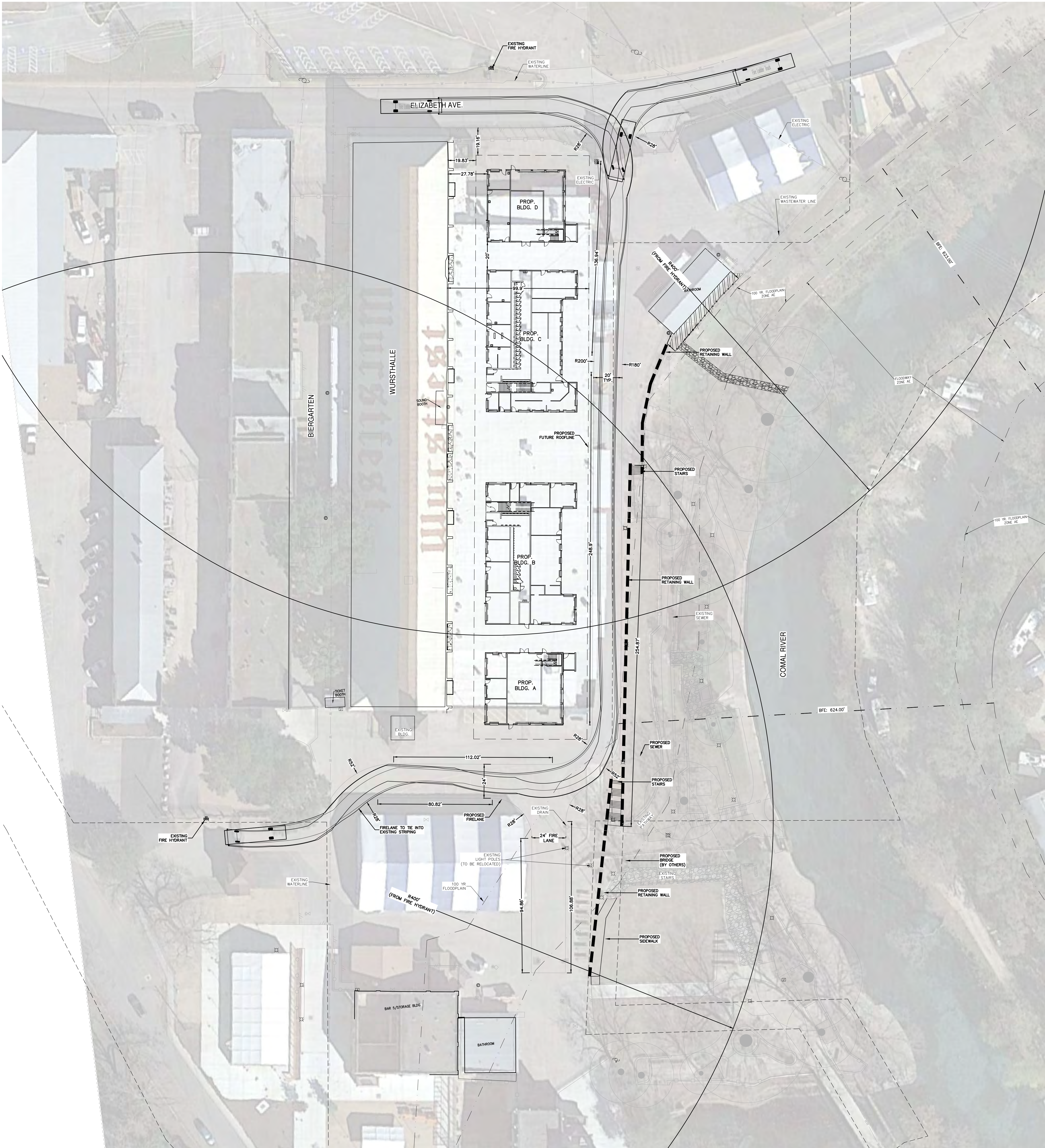
EROSION
CONTROL PLAN

SHEET NO.

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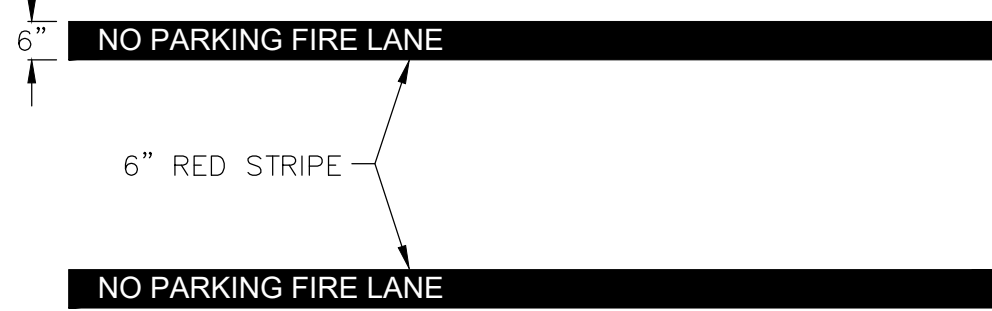


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LEGEND
U.E. UTILITY EASEMENT
D.E. DRAINAGE EASEMENT

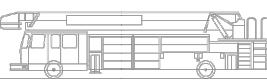
FIRE LANE NOTES:
STRIPING - THE TOP FACE OF ROAD CURBS SHALL BE PAINTED UTILIZING RED TRAFFIC PAINT.
A. IF NO CURBS ARE PRESENT, A SIX INCH (6") WIDE STRIPE PAINTED OF TRAFFIC RED PAINT SHALL BE PAINTED ON THE DRIVING SURFACE TO SHOW THE BOUNDARIES OF THE LANE.
B. THE WORDS "NO PARKING FIRE LANE" SHALL BE SPACED AT A MAXIMUM OF 12 FEET APART, ALONG THE LENGTH OF THE FIRE LANES.
SEE ILLUSTRATION BELOW.



1 FIRE LANE DETAIL
N.T.S.

Vehicle Tracking v19.00 - New Braunfels

Vehicle Tracking Vehicle Details

Ref: 
Vehicle Name: Fire Ladder Truck
Type: Rigid vehicle
Category: (Unspecified)
Classification: (Unspecified)
Source: NBFD
Description: Typical Ladder Truck
Notes:
Unit 1 Name: Fire Ladder Truck Tractor



Fire Ladder Truck
Overall Length 43.000ft
Overall Width 10.000ft
Overall Body Height 10.446ft
Min Body Ground Clearance 0.877ft
Track Width 0.883ft
Lock-to-lock time 4.00s
Curb to curb Turning Radius 49.750ft

Every Effort Has Been Made To Ensure The Accuracy Of This Information
Please Check Data From Your Own Sources

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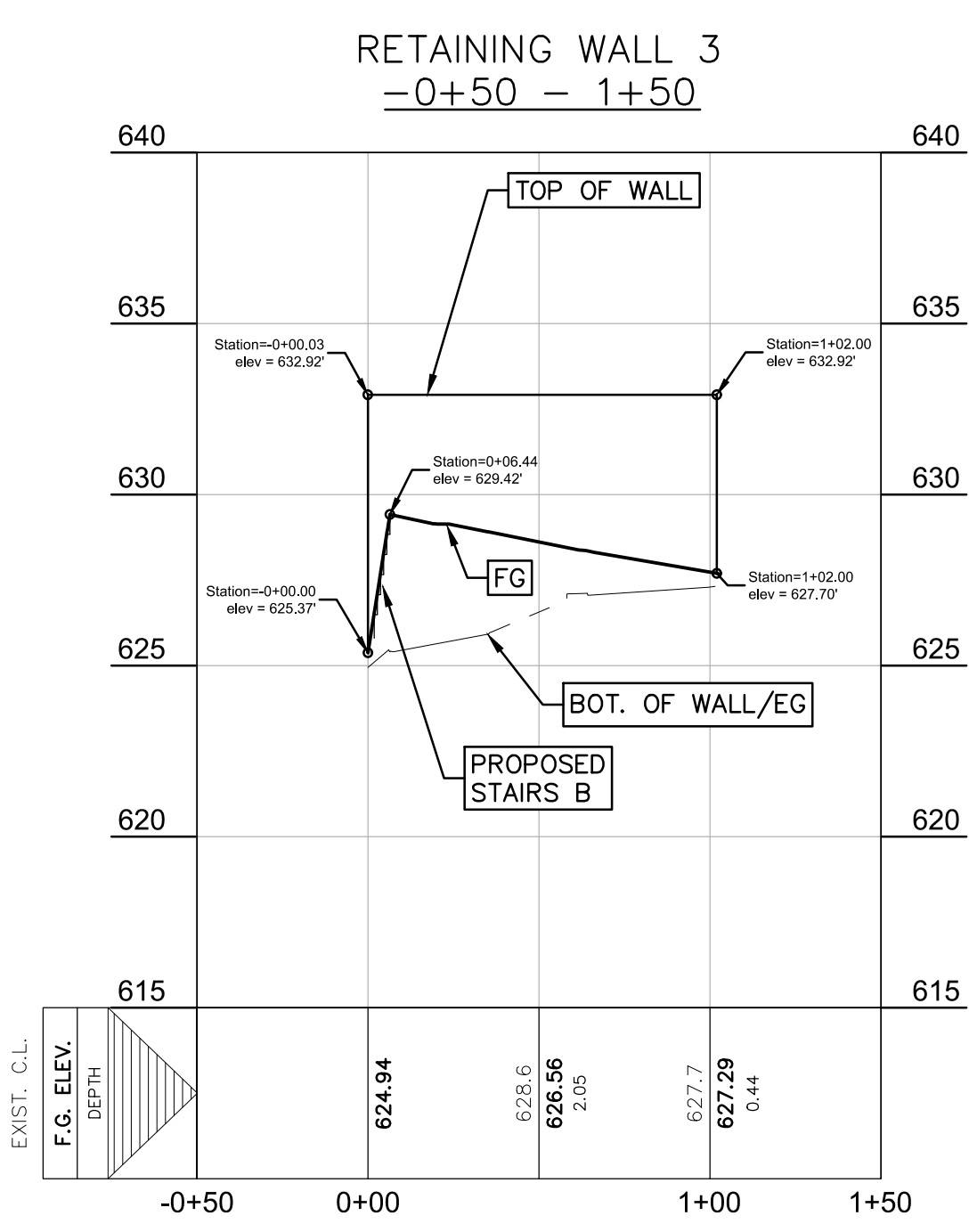
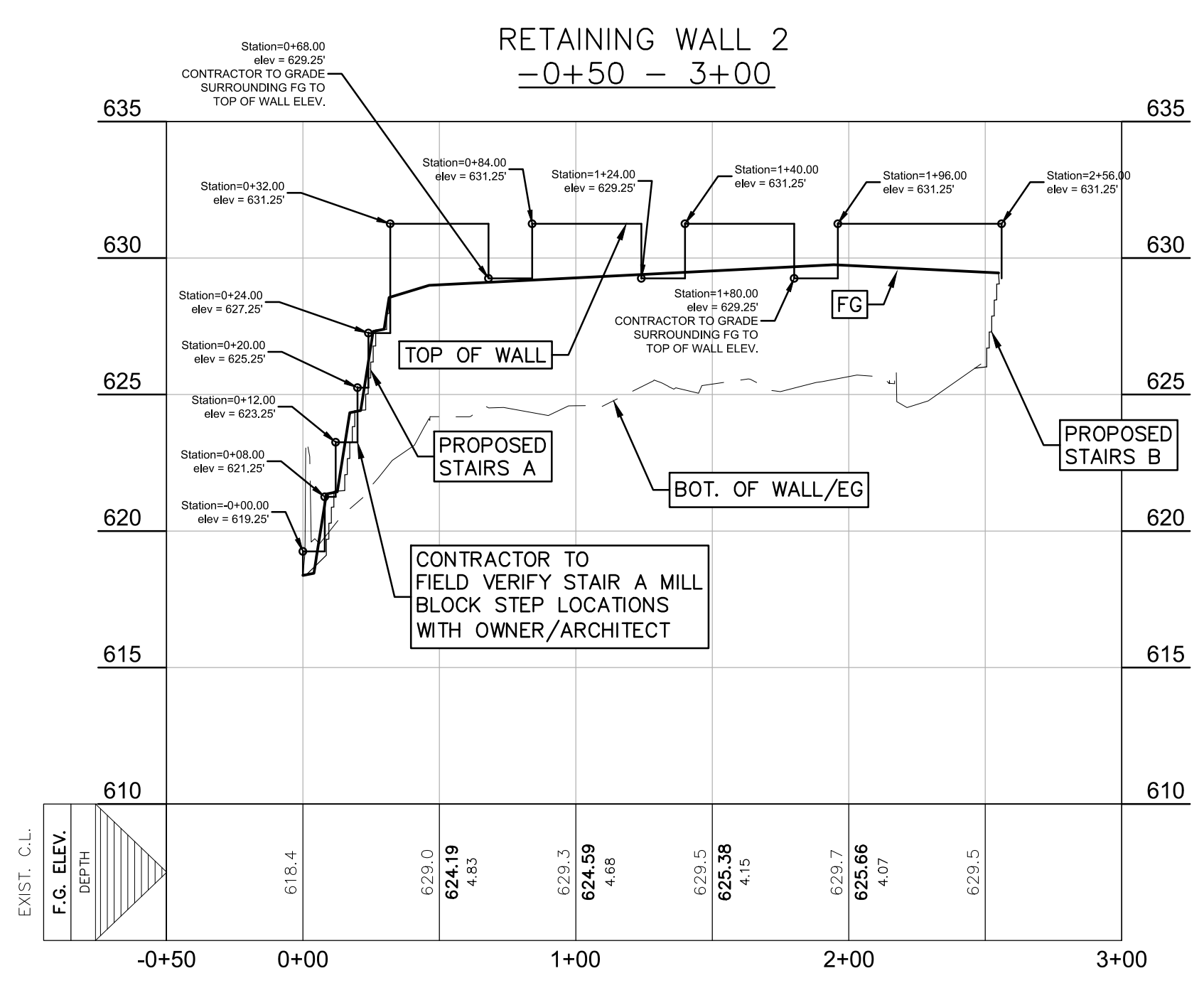
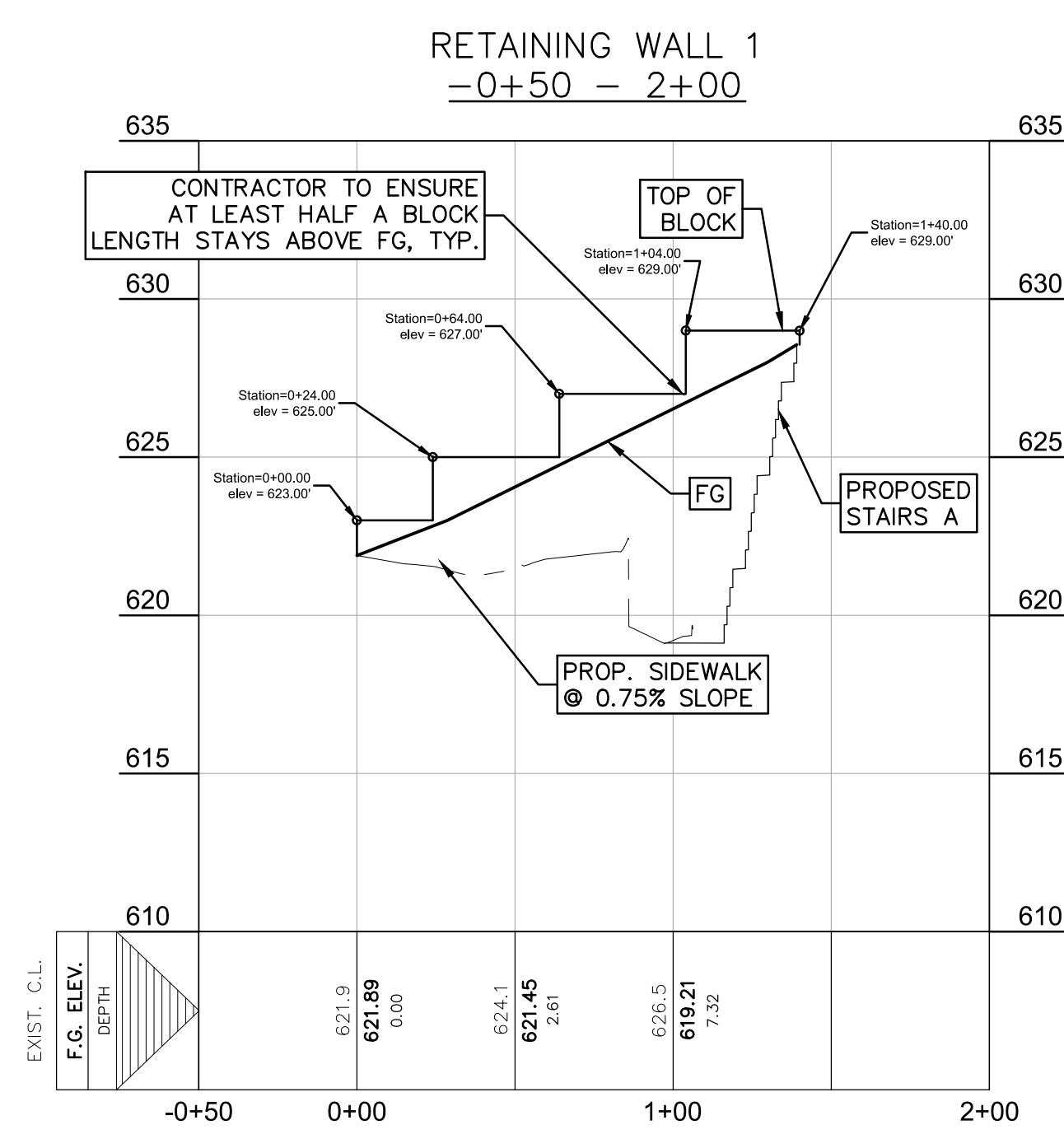
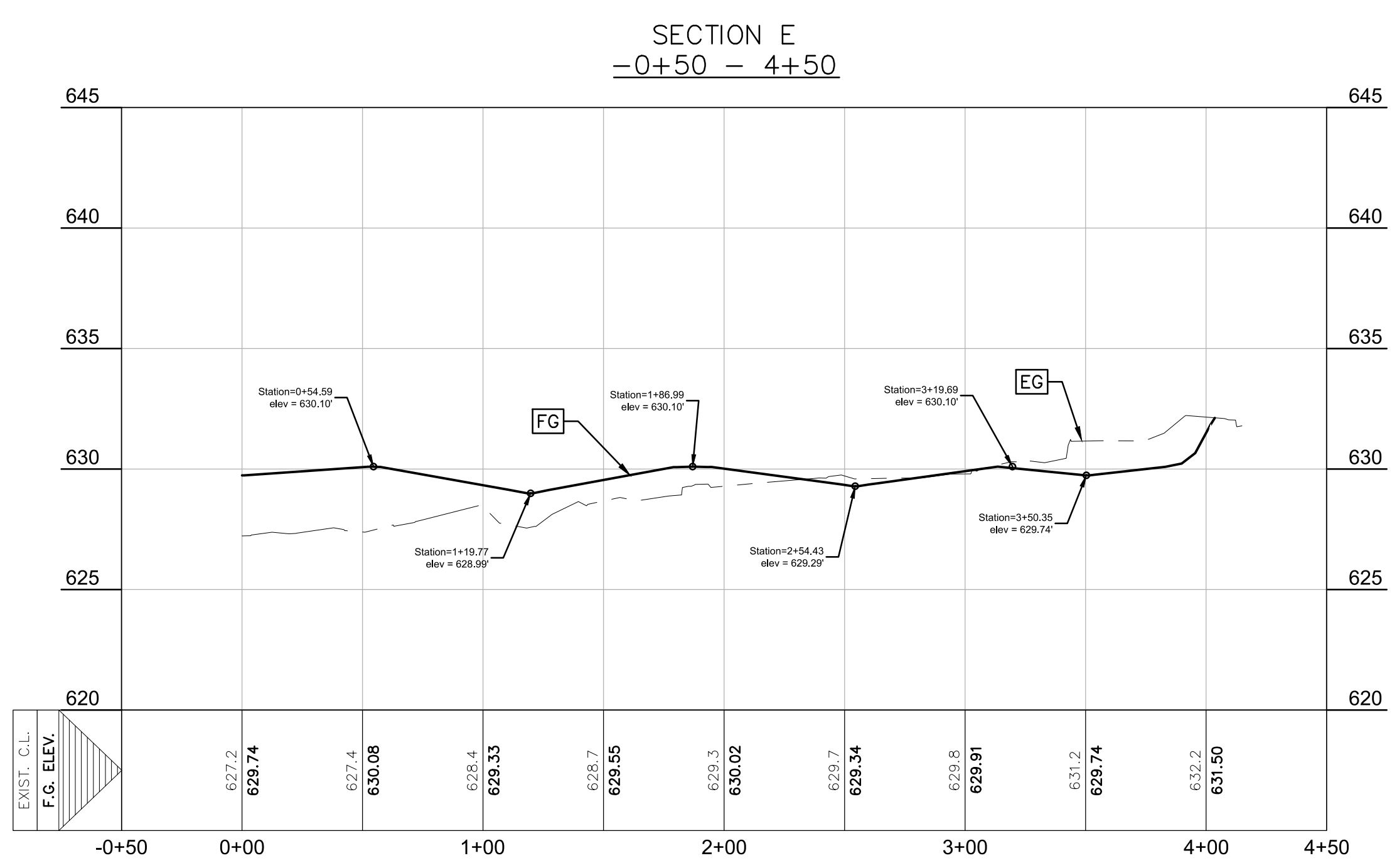
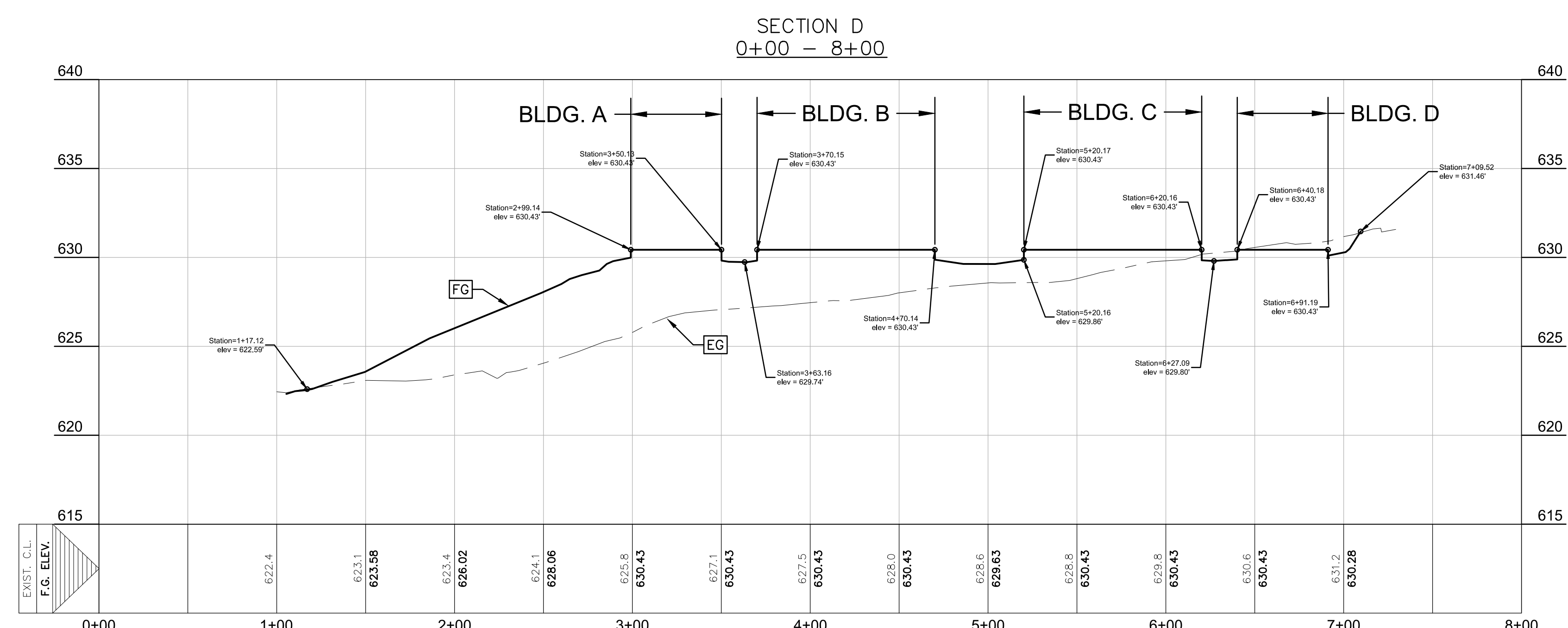
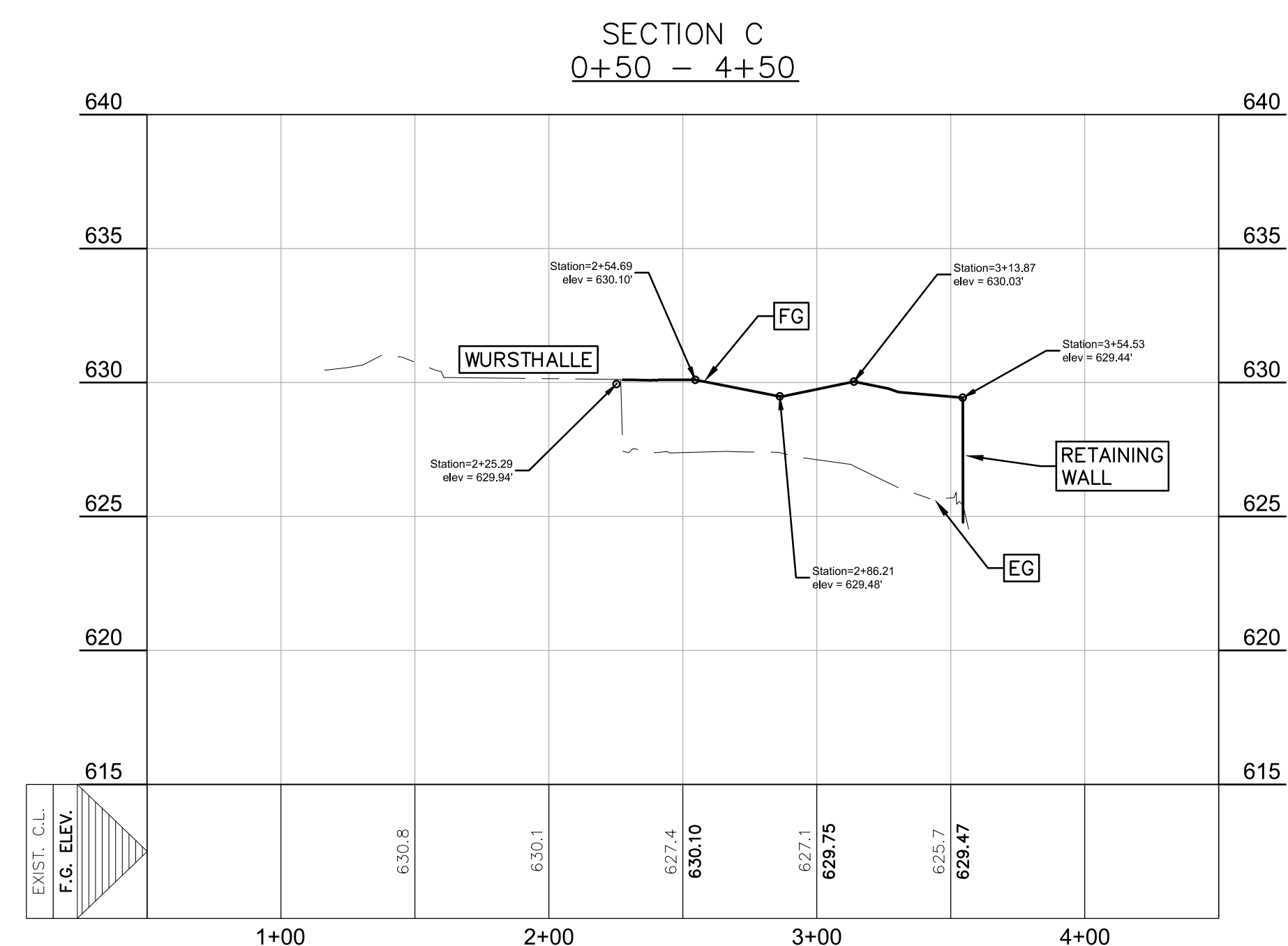
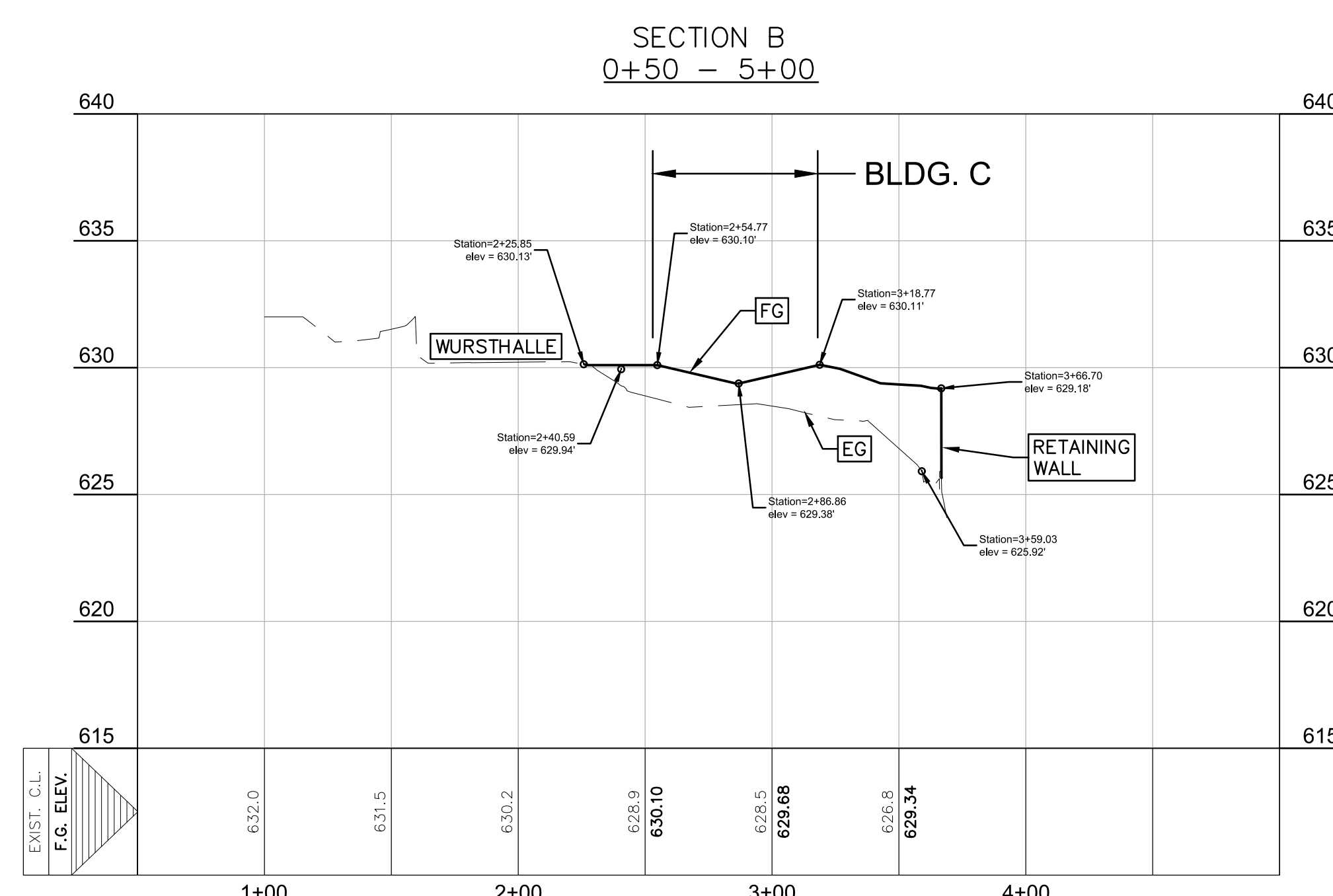
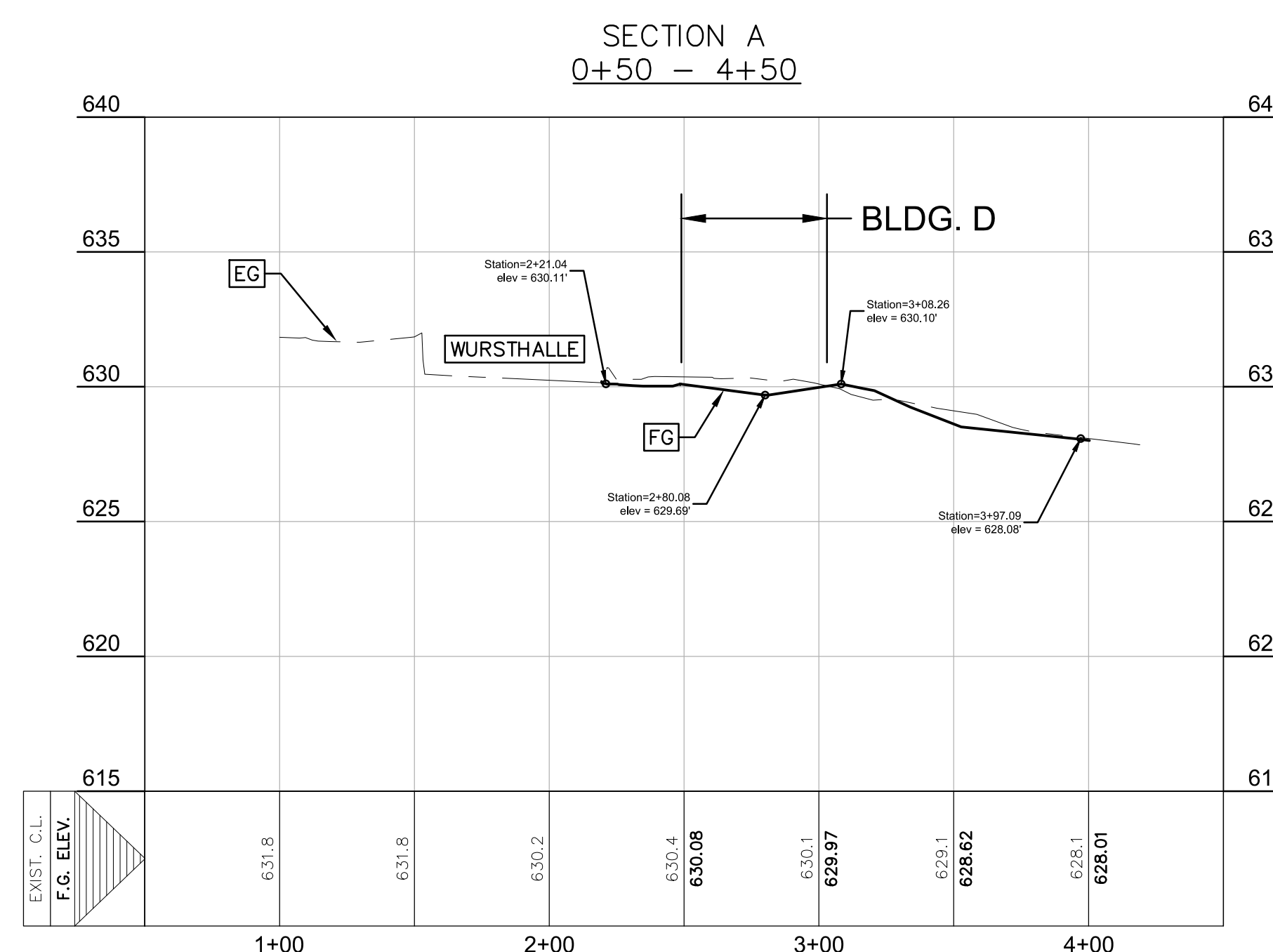
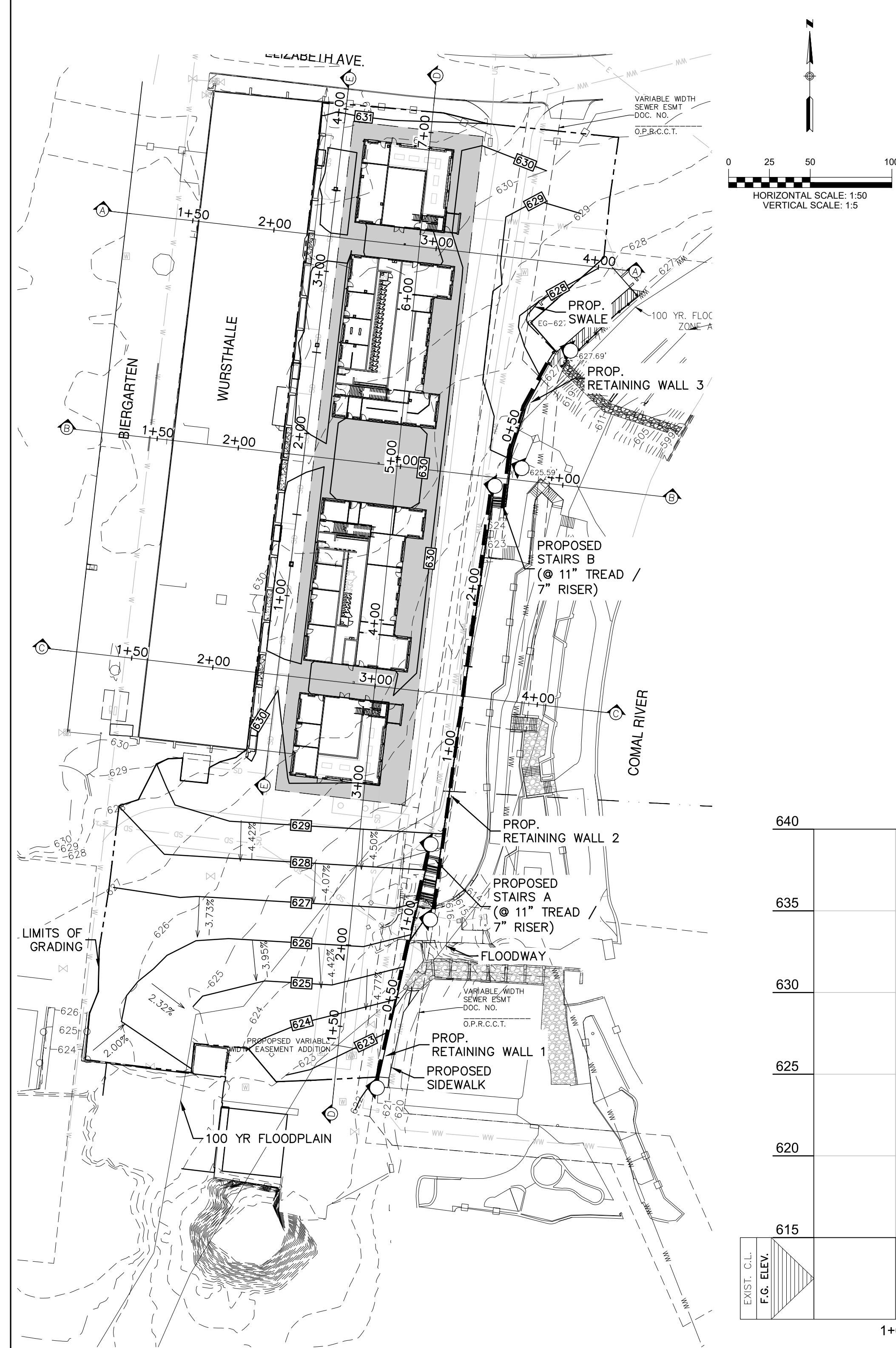
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Date: 05/13/2020
Project No.: 063.005
Revisions:
FIRE LANE LAYOUT REVISION
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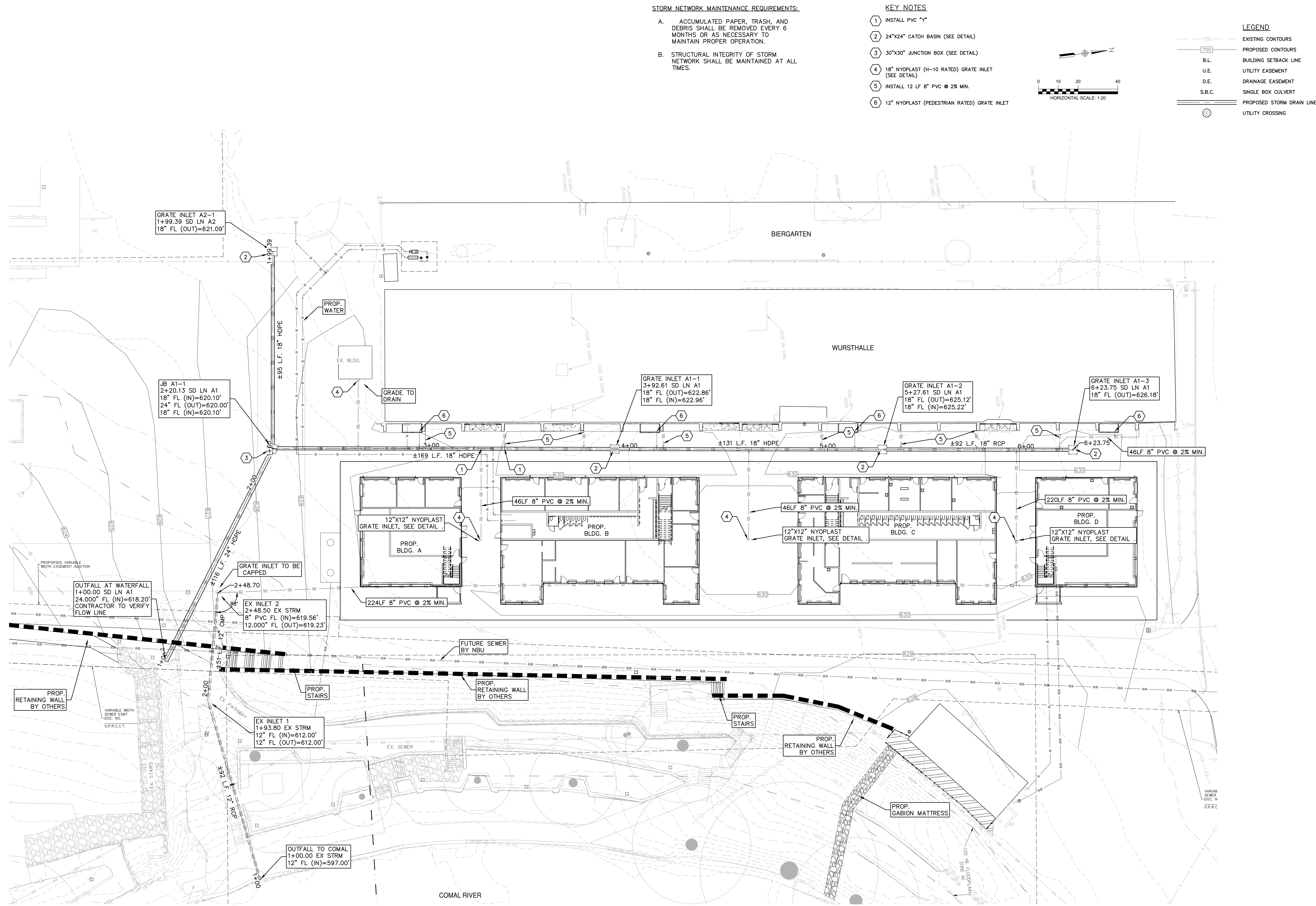
SHEET TITLE

FIRELANE
EXHIBIT

SHEET NO.

C4.1_FL





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THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.



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ELECTRICAL, MAS ENGINEERING
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(830) 629-2988



MARKTPLATZ
WURTSFEST
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NEW BRAUNFELS TX 78130



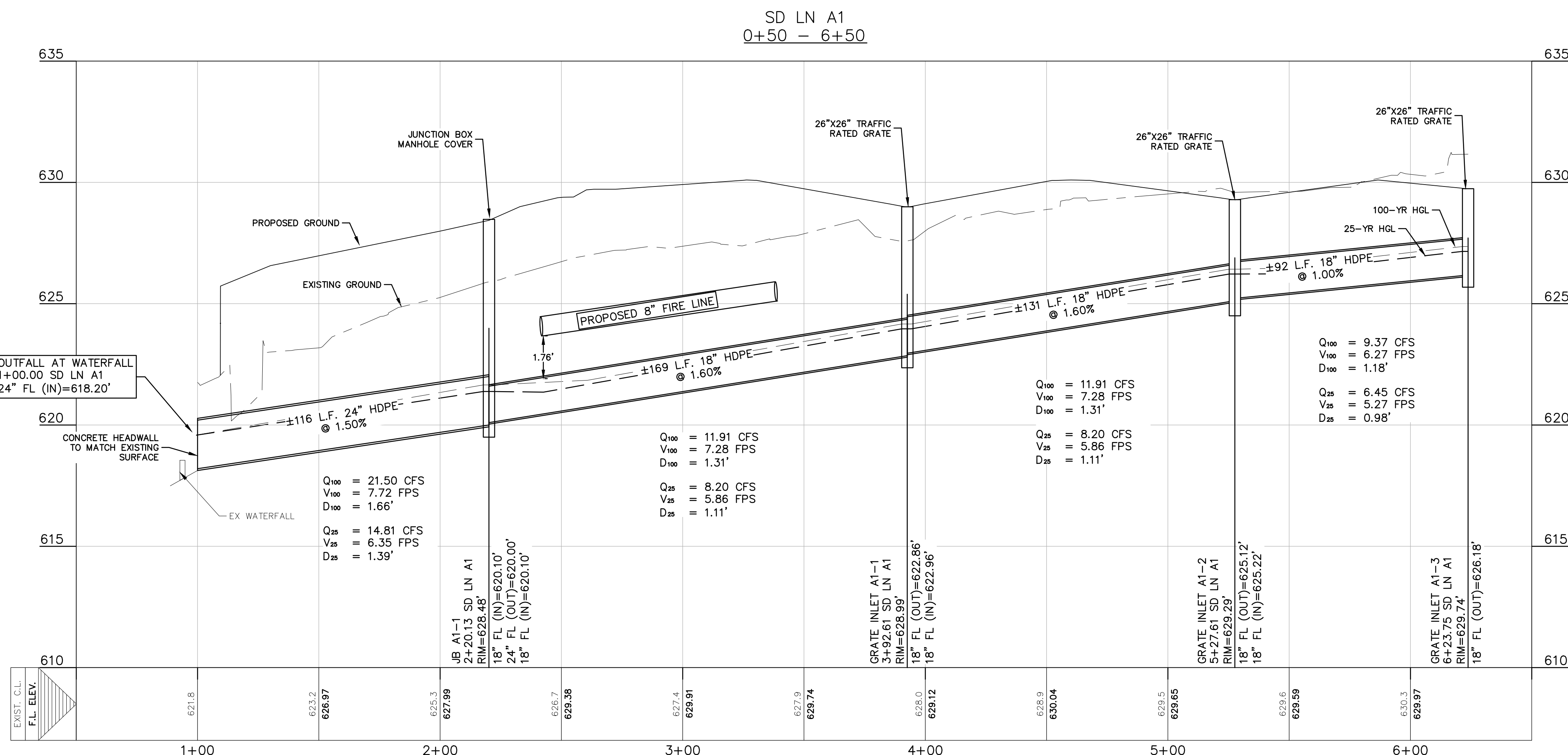
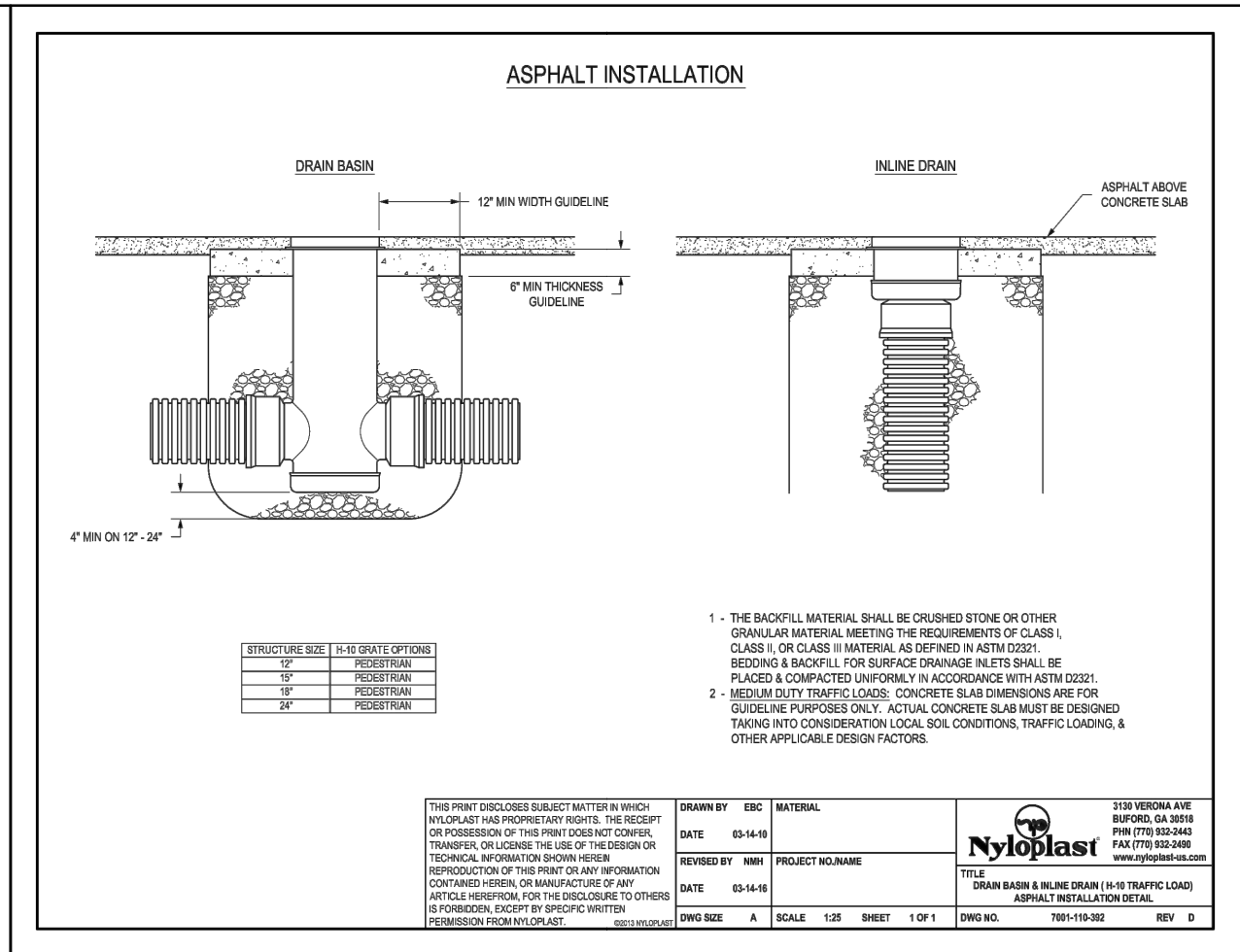
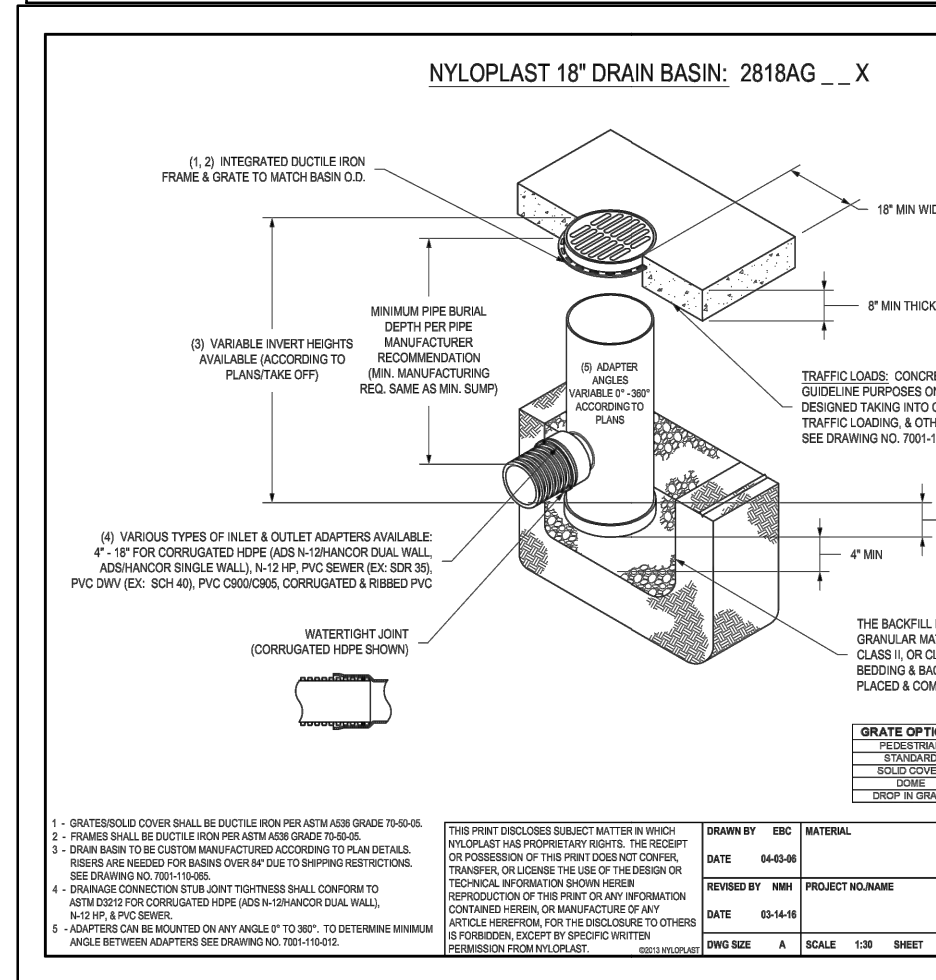
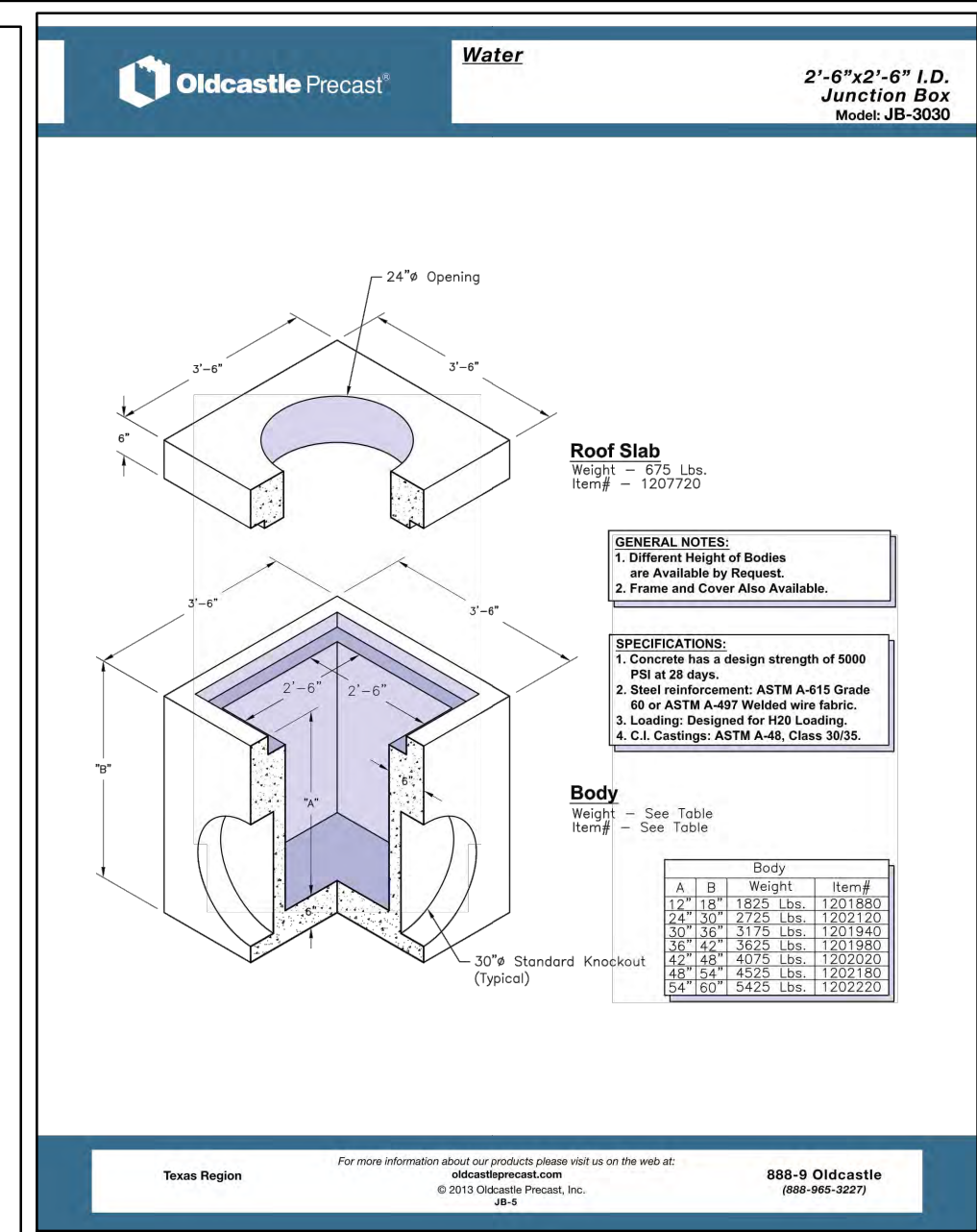
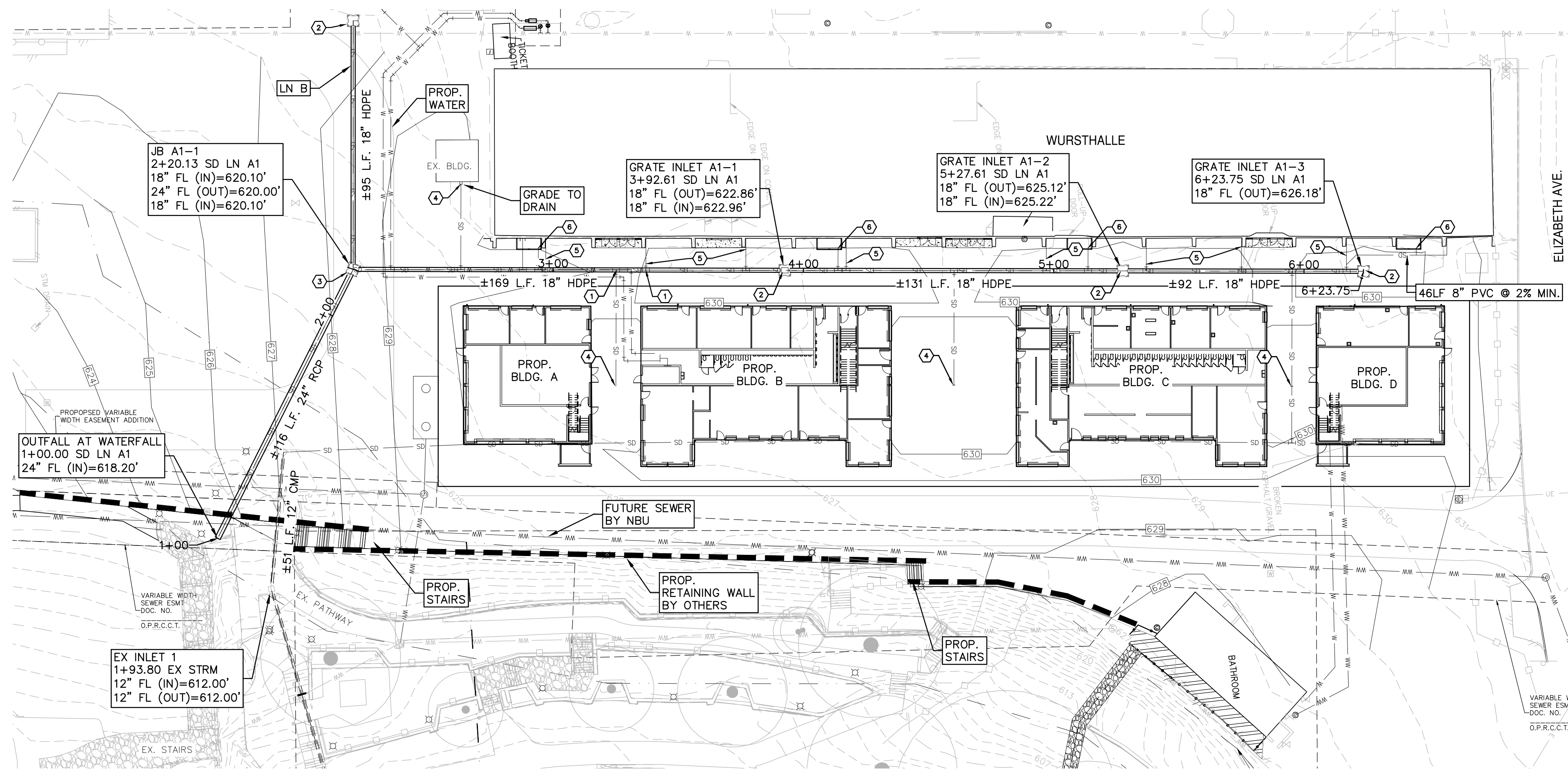
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SHEET TITLE

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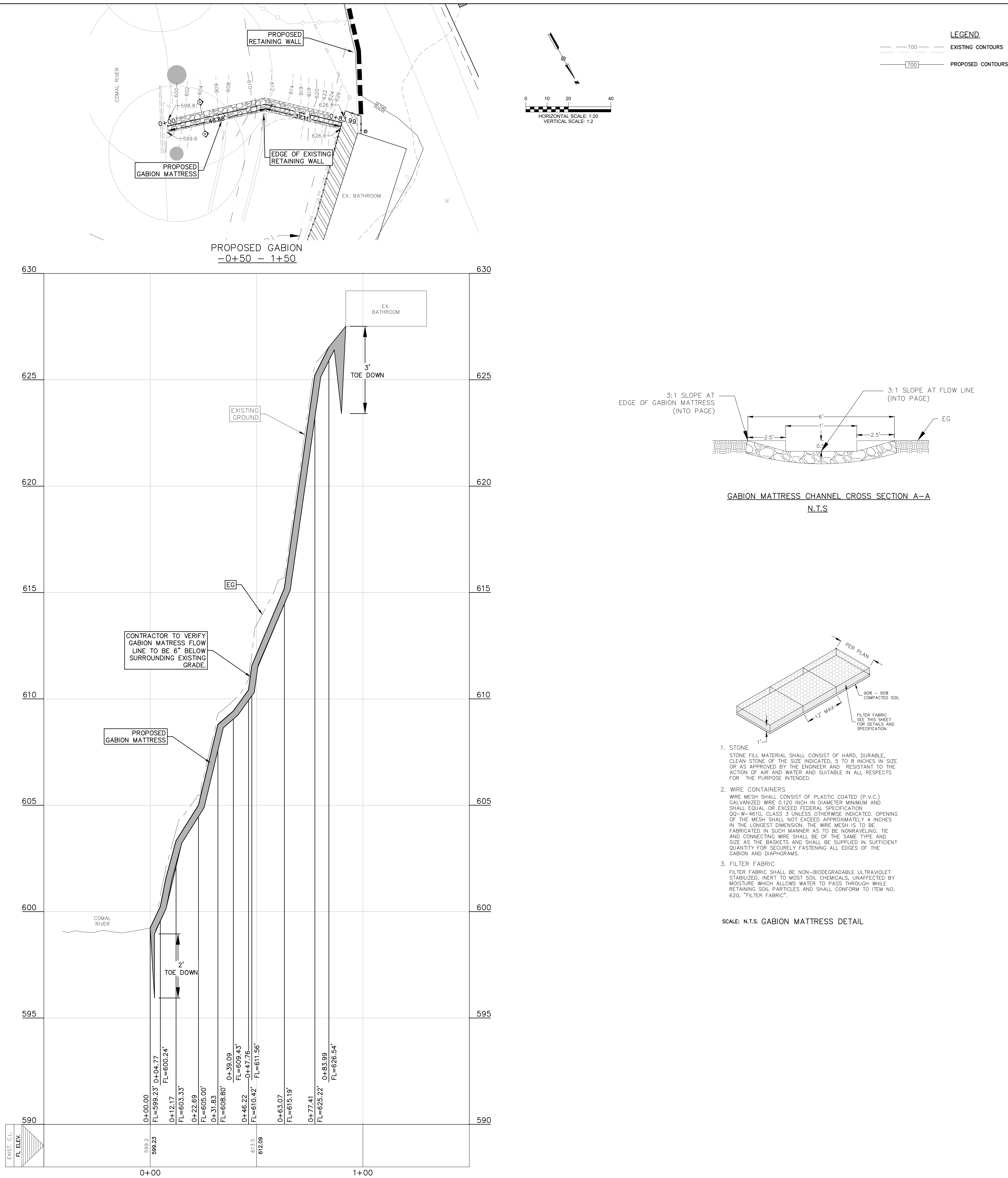
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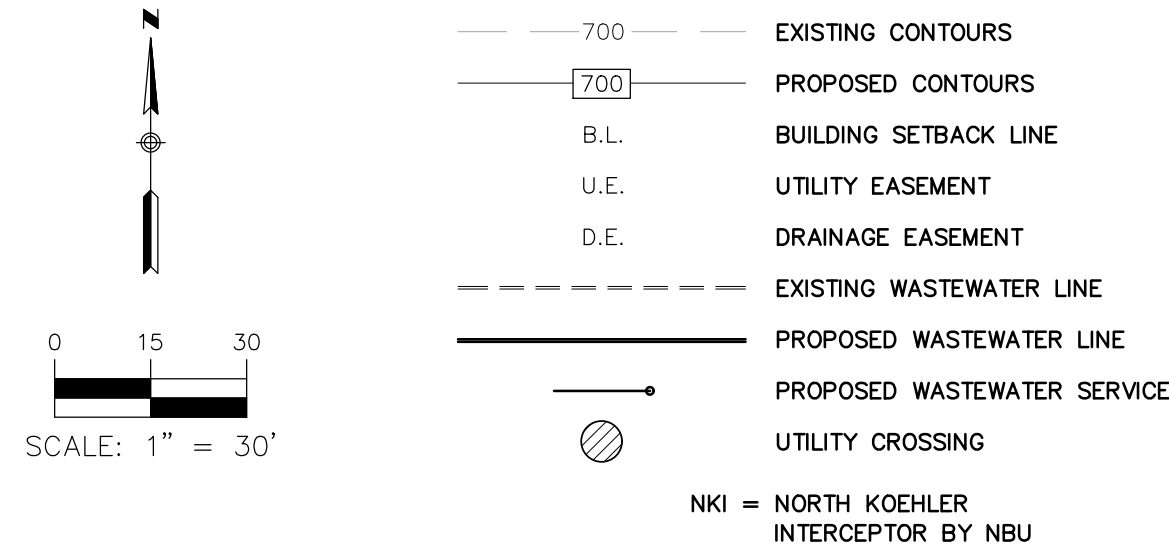
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MATRESS

SHEET NO.

C6.2_FL

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CONSTRUCTION NOTES:

1. NO VALVES, HYDRANTS, CLEAN-OUTS, ETC. SHALL BE CONSTRUCTED WITHIN CURBS, SIDEWALKS, OR DRIVEWAYS.
2. ALL SEWER PIPE ASTM 3034 (115 PSI)
3. ALL MANHOLES SHALL BE 48" DIAMETER.
4. ALL RING AND COVER SHALL BE 32" DIAMETER.
5. EXISTING MANHOLES, RIM AND FLOWLINE ELEVATIONS SURVEYED BY HMT ENGINEERING & SURVEYING DATED 01/16/2020.
6. POINT OF DELIVERY SHALL BE IN ACCORDANCE WITH NBU WATER AND WASTEWATER DESIGN CRITERIA MANUAL, SECTION 2.3.0.
7. ALL TEES, BENDS, AND REDUCERS ARE TO BE MECHANICAL JOINTS (M.J.)

UTILITY TRENCH COMPACTION

ALL UTILITY TRENCH COMPACTION TESTS WITHIN THE STREET PAVEMENT SECTION SHALL BE THE RESPONSIBILITY OF THE DEVELOPER'S GEO-TECHNICAL ENGINEER. FILL MATERIAL SHALL BE PLACED IN UNIFORM LAYERS NOT TO EXCEED TWELVE INCHES (12") LOOSE. EACH LAYER OF MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% DENSITY AND TESTED FOR DENSITY AND MOISTURE IN ACCORDANCE WITH TEST METHODS TEX-113-E, TEX-114-E, TEX-115-E. THE NUMBER AND LOCATION OF REQUIRED TESTS SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER AND APPROVED BY THE CITY OF NEW BRAUNFELS STREET INSPECTOR. AT A MINIMUM, TESTS SHALL BE TAKEN EVERY 100LF FOR EACH LIFT. UPON COMPLETION OF TESTING THE GEO-TECHNICAL ENGINEER SHALL PROVIDE THE CITY OF NEW BRAUNFELS STREET INSPECTOR WITH ALL TESTING DOCUMENTATION AND A CERTIFICATION STATING THAT THE PLACEMENT OF FILL MATERIAL HAS BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.

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 INSTALLATION 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 EXCAVATIONS.

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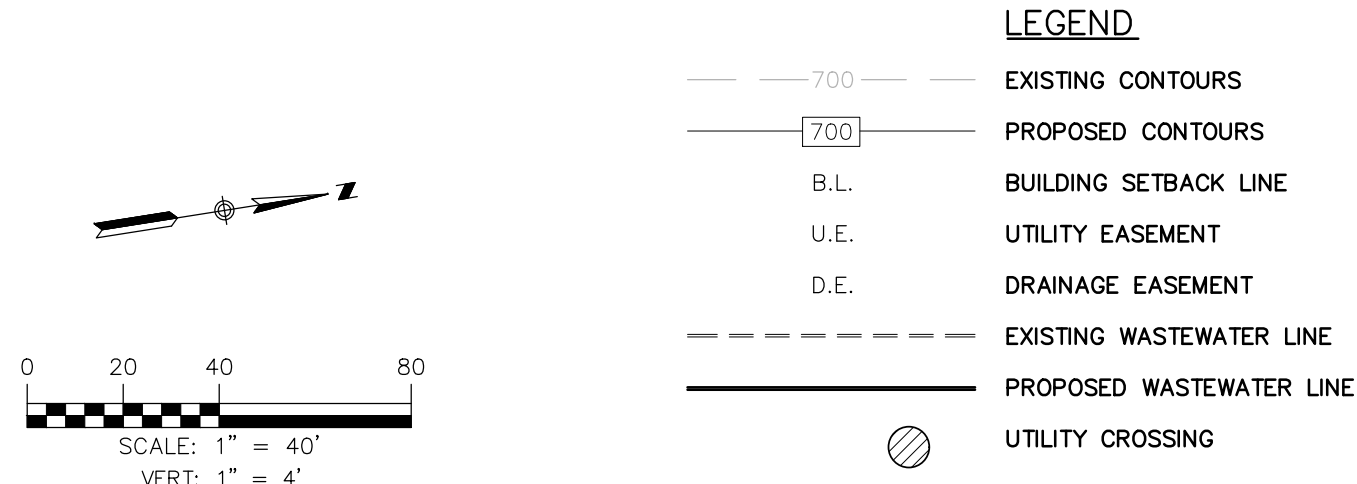
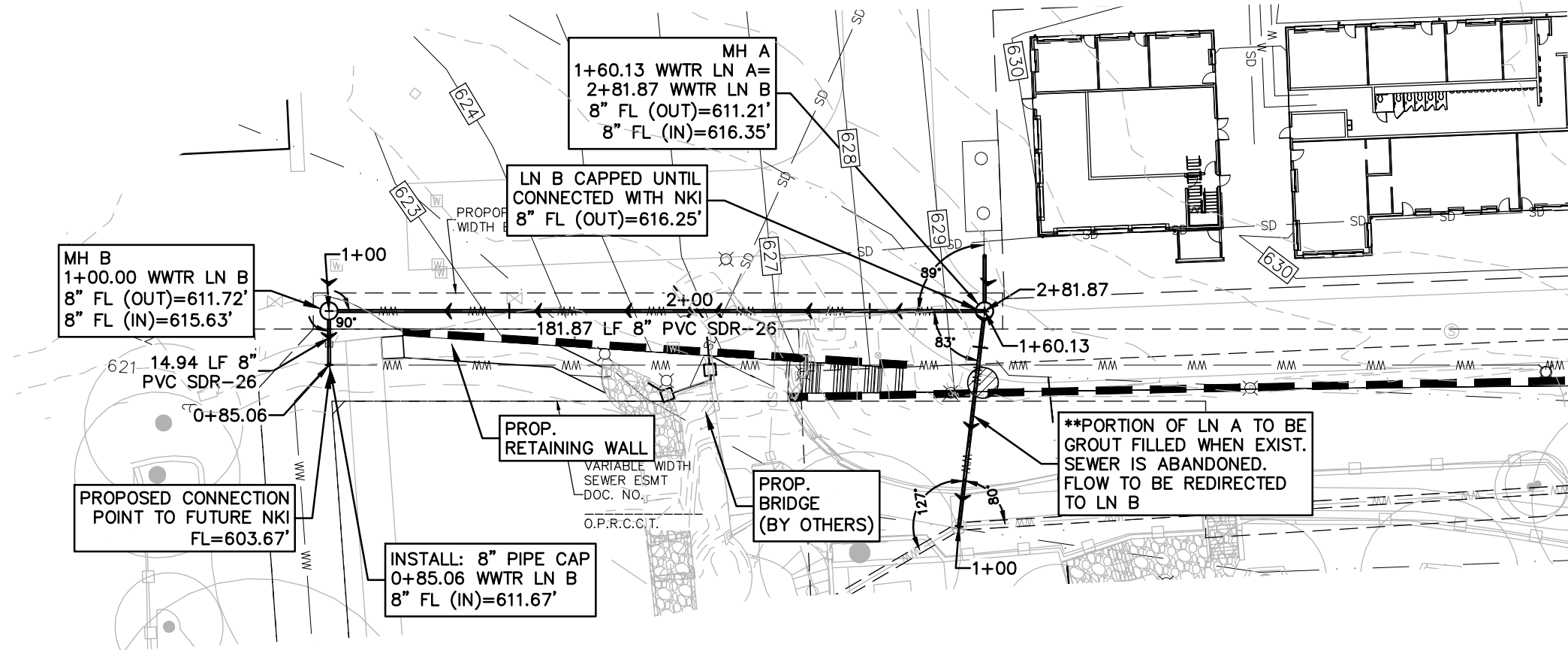
SHEET TITLE

OVERALL
UTILITY
LAYOUT

SHEET NO.

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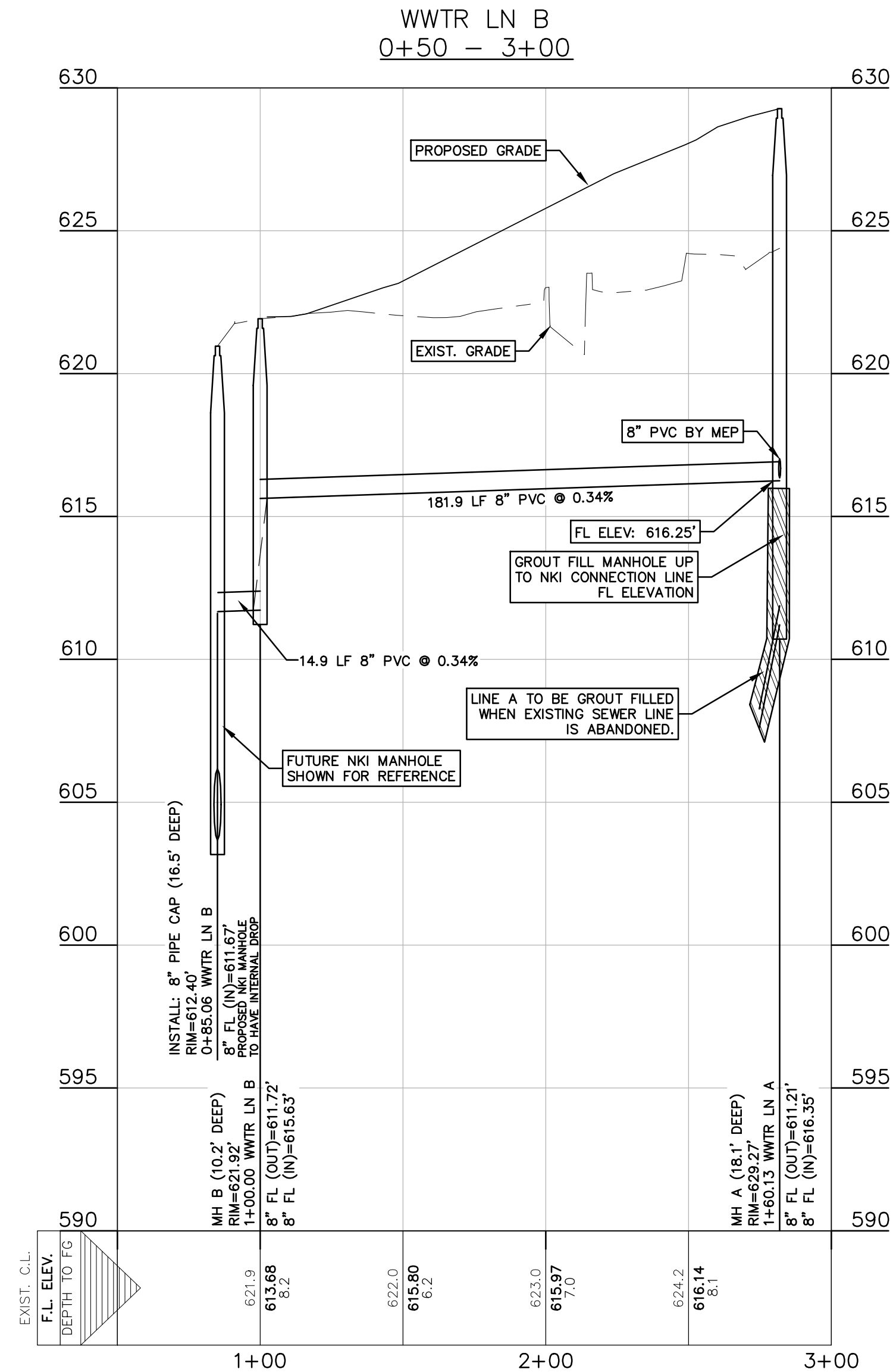


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Revisions:

SHEET TITLE

**WASTEWATER
PLAN AND
PROFILE**

SHEET NO.

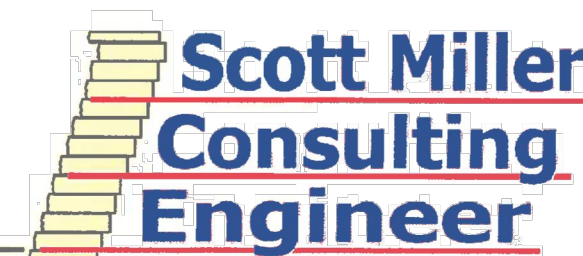
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JOB NO. 20115

PREPARED FOR:
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Texas Registered Engineering Firm
F-003643

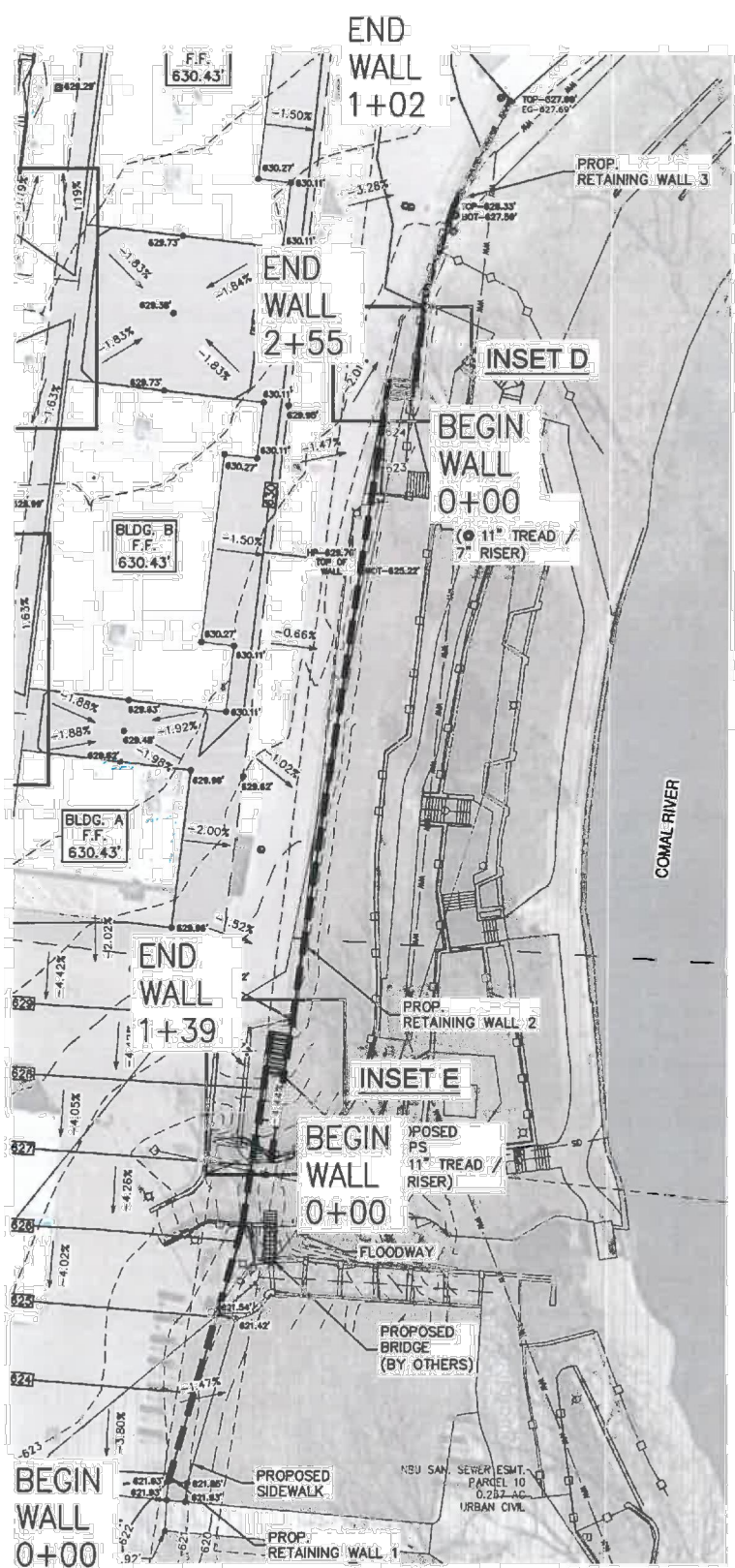


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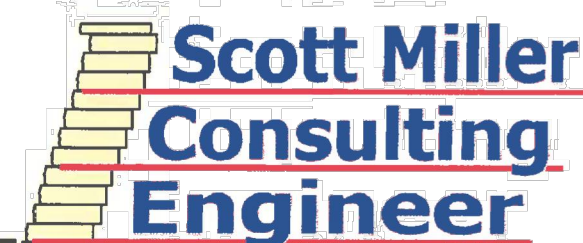
WALL DESIGN

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Tel: 305.396.7343 E-mail: segwalls@gmail.com



NOT TO SCALE
LAYOUT WALLS PER CIVIL PLANS
CONSIDERING WALL FACE BATTER



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Texas Registered Engineering Firm
F-003643

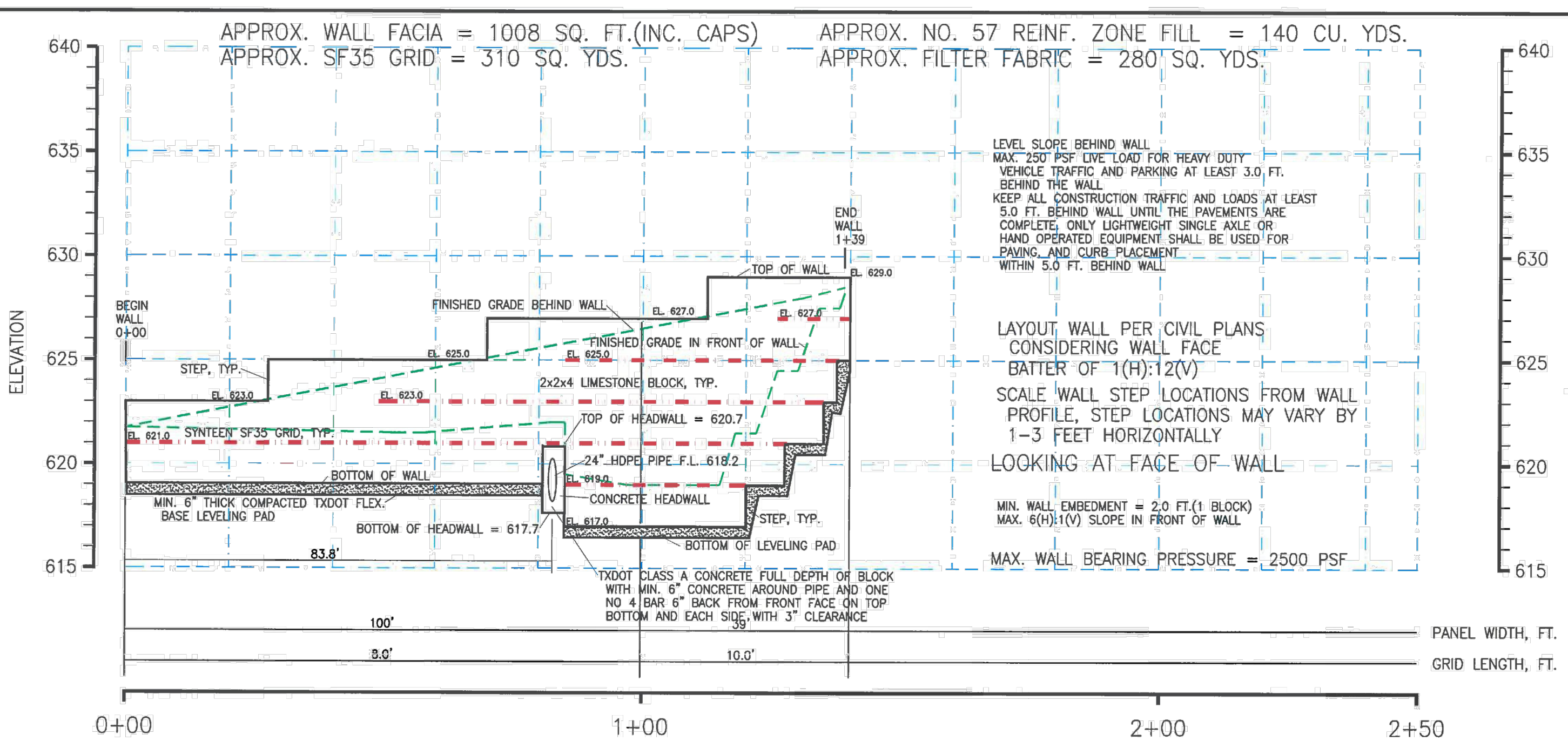


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WALL LOCATION

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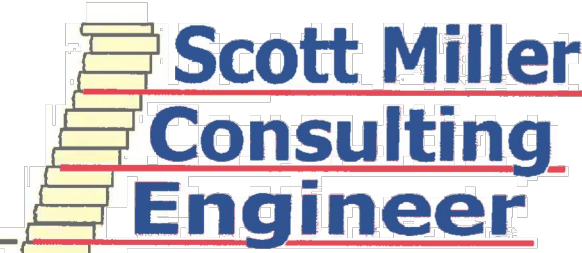
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Tel: 305.396.7343 E-mail: segwalls@gmail.com



KEY
SYNTEX SF35 GRID, TYP.

WALL 1 PROFILE
SCALE: HORIZ. 1" = 20'
VERT. 1" = 5'

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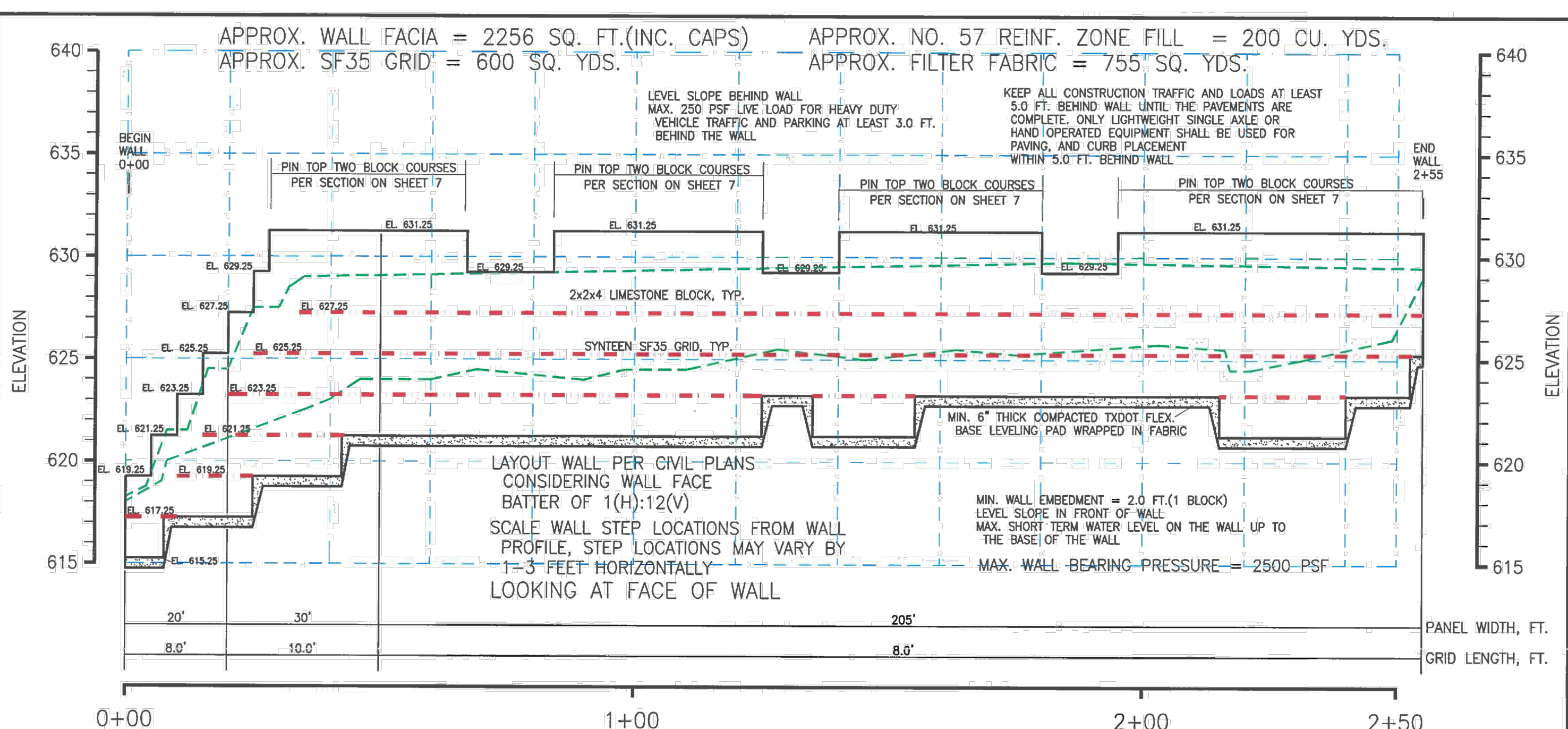


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WALL 2 PROFILE
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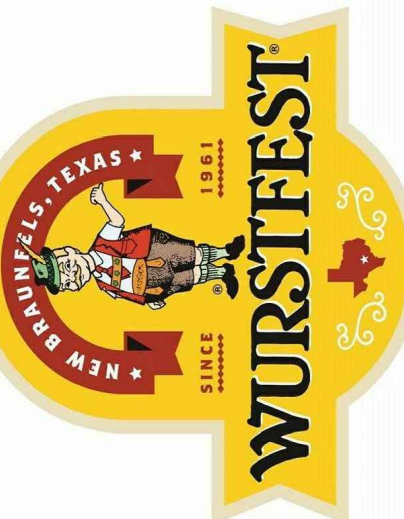
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TBPE FIRM F-10961
TBPLS FIRM 1053600

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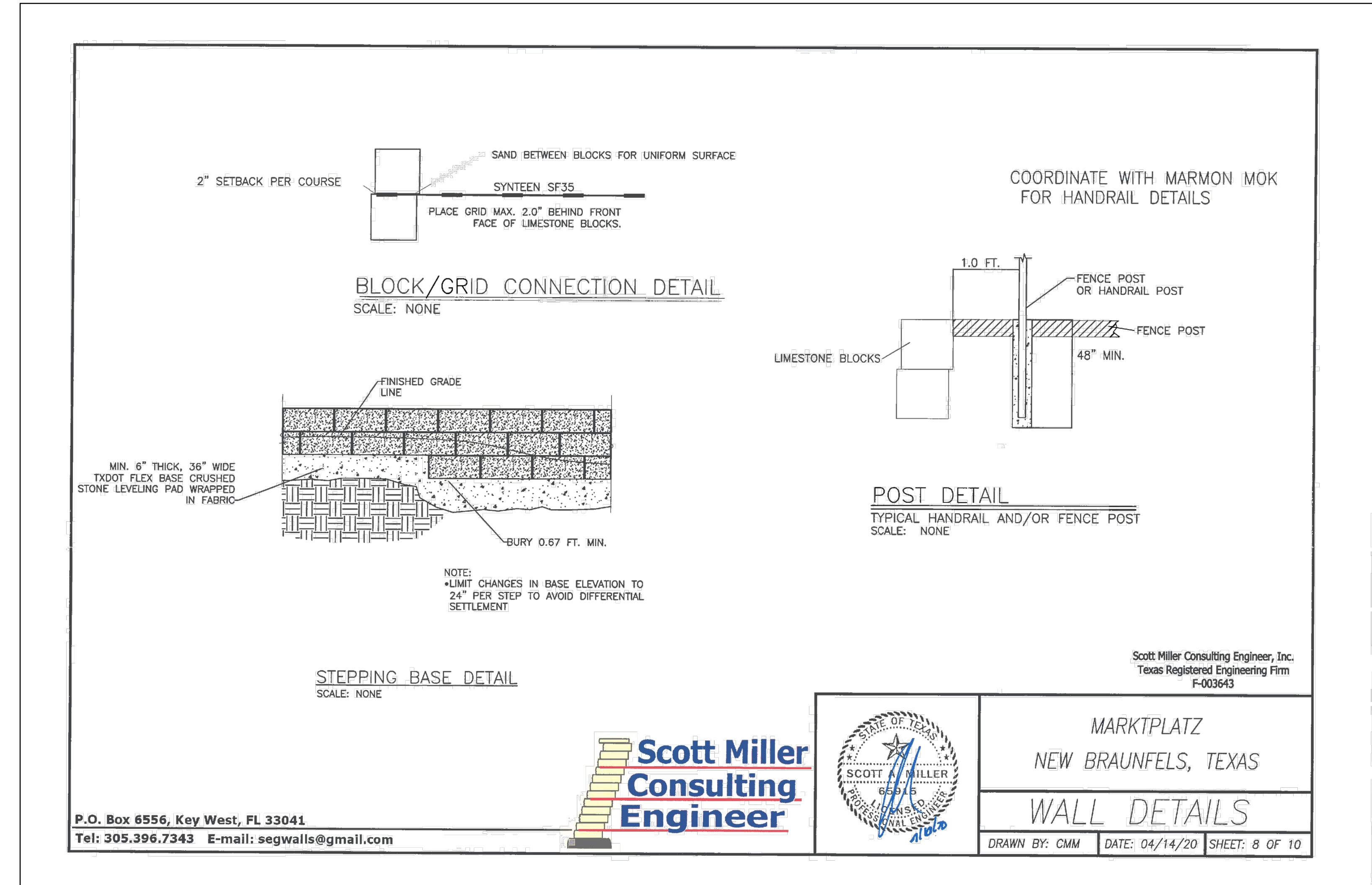
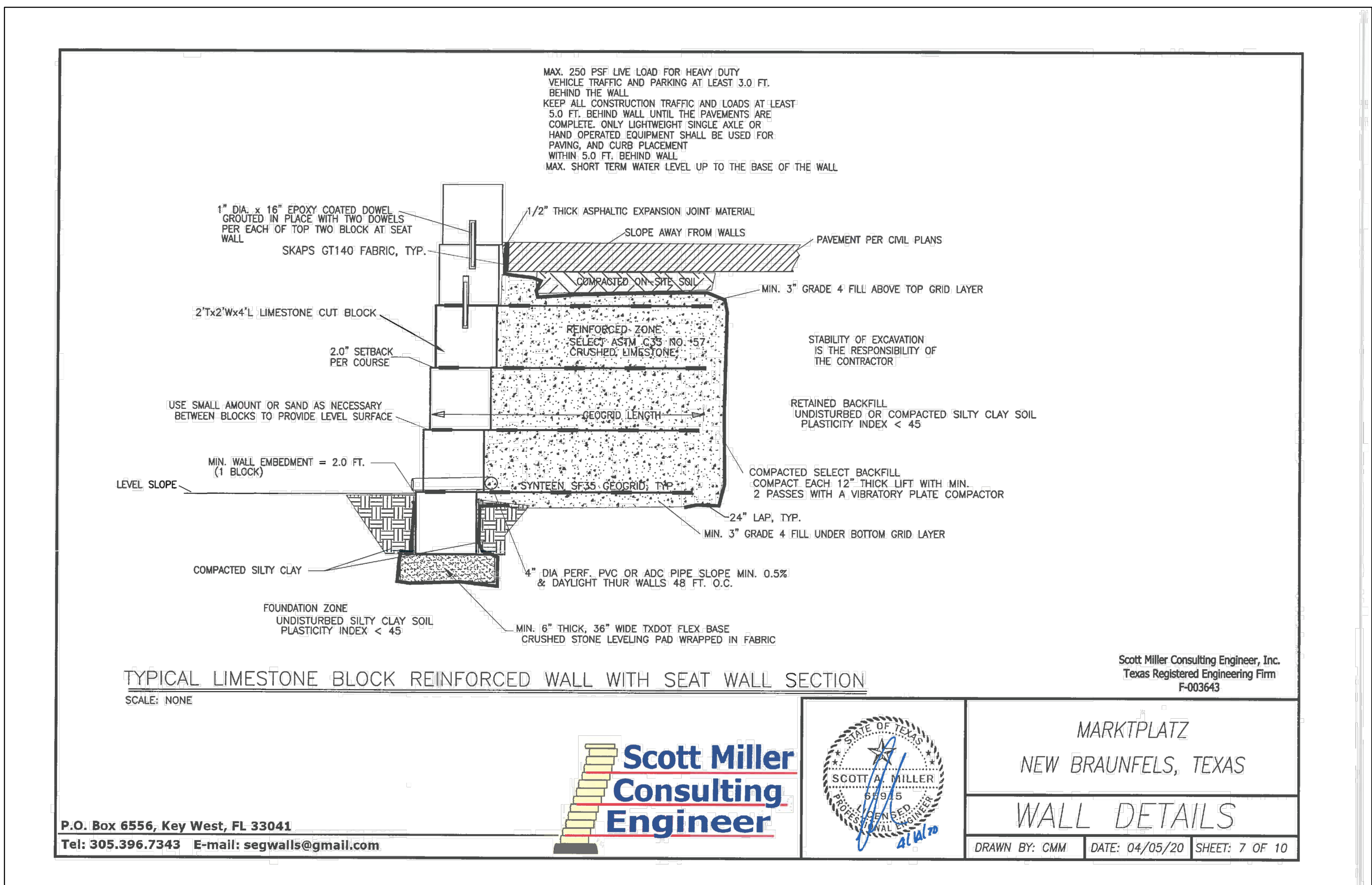
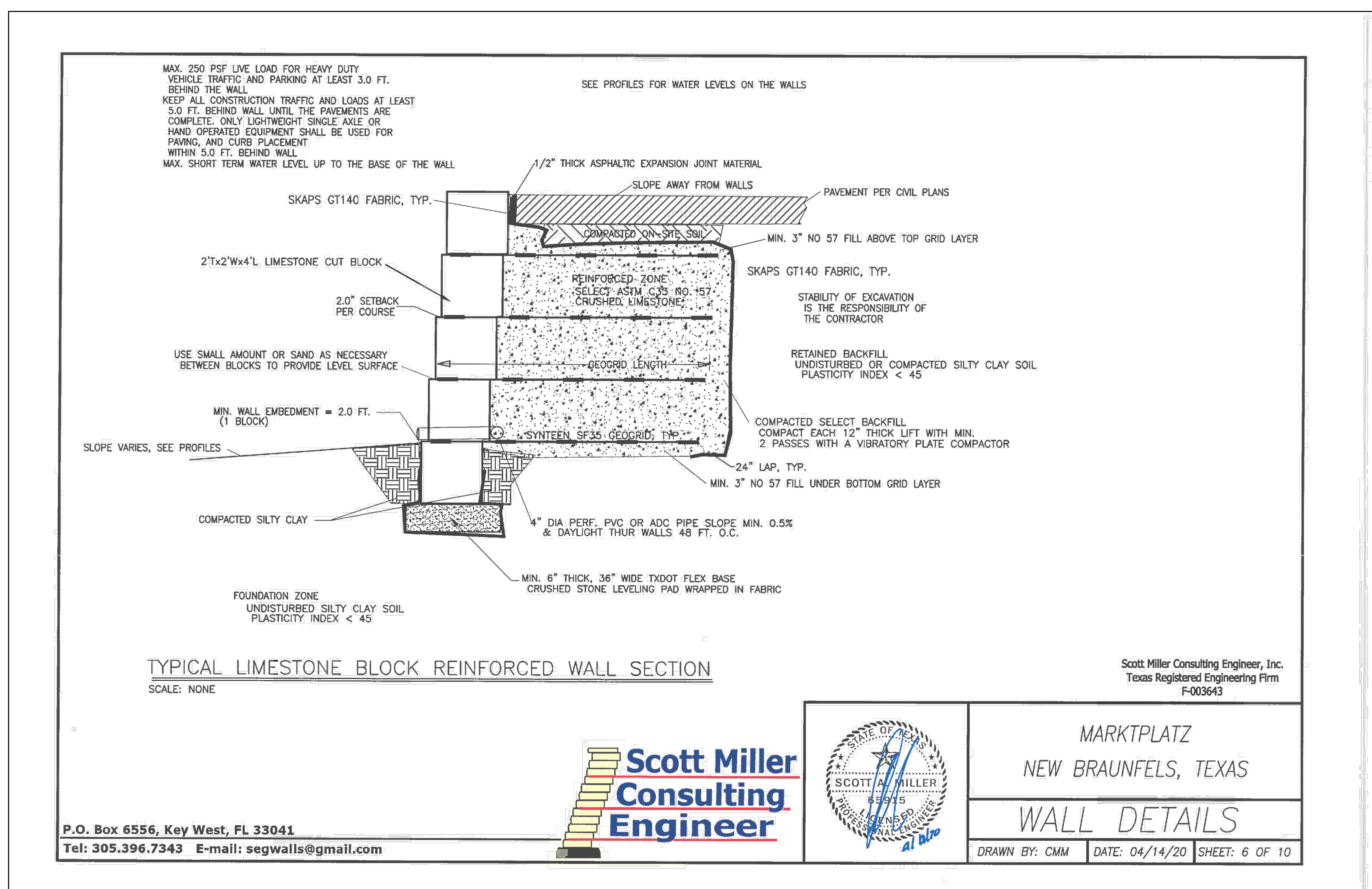
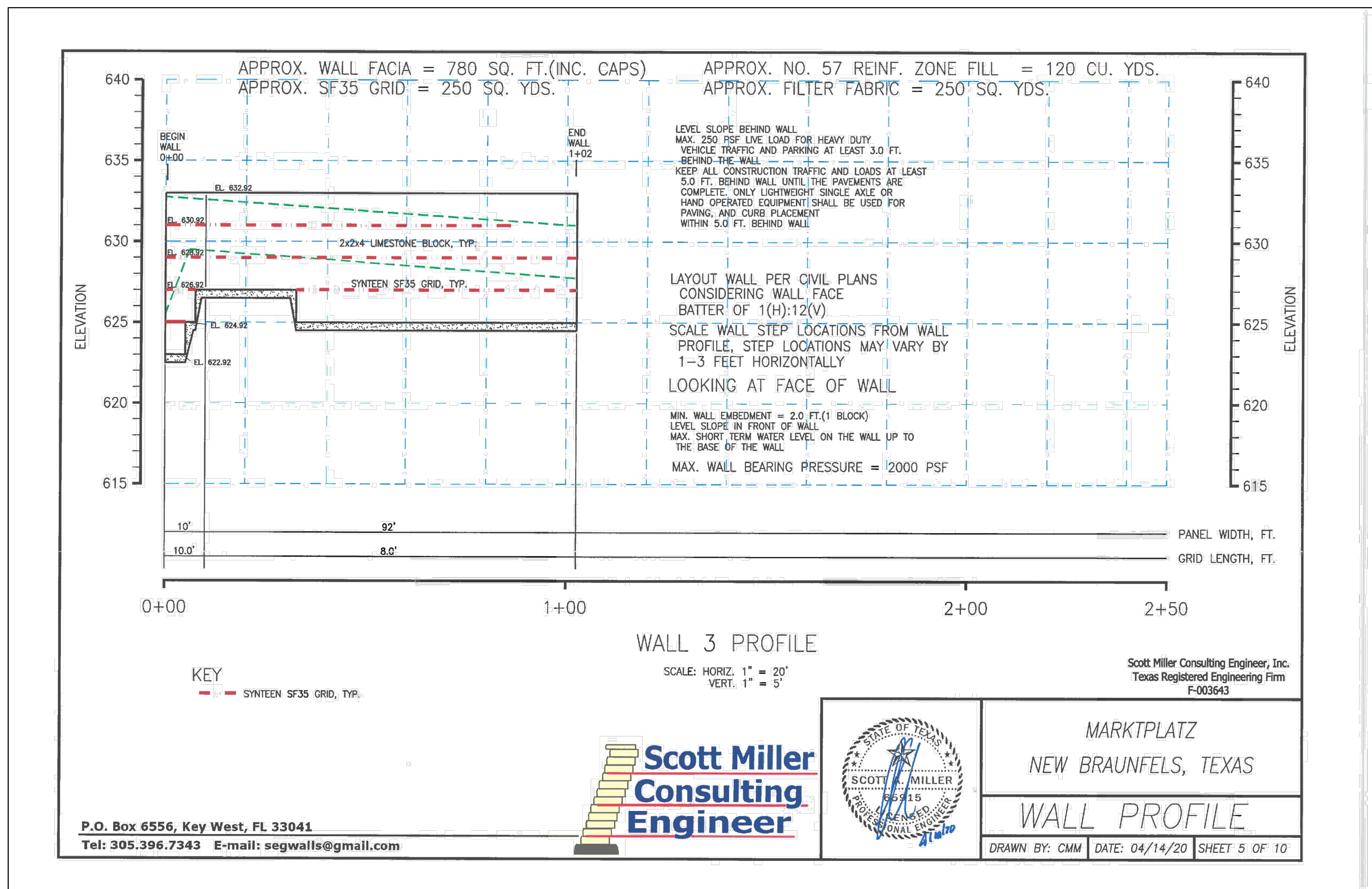


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(DATED 05/13/2020)

SHEET TITLE
RETAINING
WALL CDS
(SHEETS 1-4)
SHEET NO.

C8.0_FL

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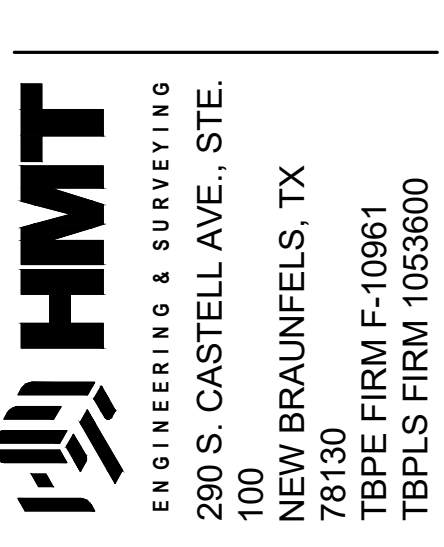
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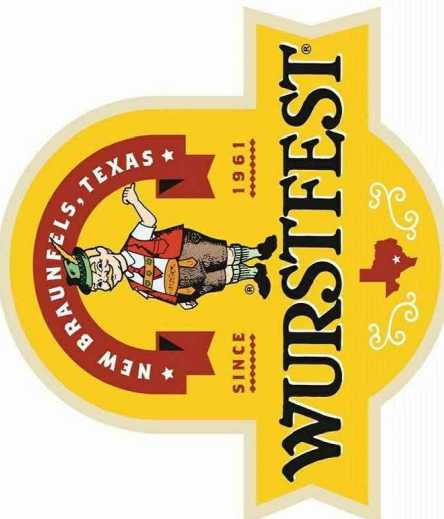
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(830) 629-2988



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NEW BRAUNFELS, TX 78130
TBPB FIRM F-10961
TBPBLS FIRM 1053600

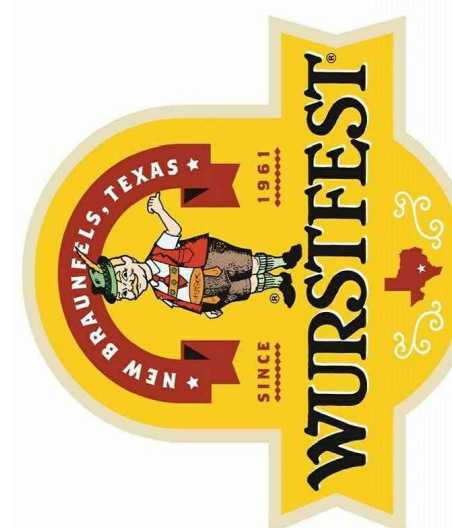
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SHEET TITLE
RETAINING WALL CDs (SHEETS 5-8)
SHEET NO.

C8.1_FL



WALL DETAILS

DRAWN BY: CMM	DATE: 04/14/20	SHEET: 9 OF 10
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1. IMPROVED ZONE: COMPACTED SELECT ASTM C33 NO. 57 CRUSHED LIMESTONE WITH AN EFFECTIVE FRICTION ANGLE = 38 DEGREES, MOST UNIT WEIGHT = 105 PCF. COEFFICIENT = 0 PSF.
2. LEVELING PAD: MINIMUM 8" THICK, 30' COMPACTED 7/10" FINE SAND CRUSHED STONE.
3. FOUNDATION ZONE: UNDISTURBED FILL CLAY SOIL WITH A PLASTICITY INDEX LESS THAN 45 WITH AN EFFECTIVE FRICTION ANGLE = 24 DEGREES, MOST UNIT WEIGHT = 120 PCF. COEFFICIENT = 0 PSF. COHESION = 3450 PSF USING GLOBAL STABILITY ANALYSIS ONLY.
3. RETAINED ZONE: UNDISTURBED OR COMPACTED FILL CLAY SOIL WITH A PLASTICITY INDEX LESS THAN 45 WITH AN EFFECTIVE FRICTION ANGLE = 24 DEGREES, MOST UNIT WEIGHT = 120 PCF. COEFFICIENT = 0 PSF.
5. MINIMUM WALL EMBEDMENT: 2.0 FT. (1 BLOCK)
6. A GEOLOGICAL REPORT BY RASA KISTNER CONSULTANTS, INC. DATED MARCH 9, 2020 WAS PROVIDED FOR THE PROJECT AND THE SOIL REPORTING AND ANALYSIS OBTAINED FROM THIS INFORMATION IN THE GEOLOGICAL REPORT. THE FIELD SOIL PROPERTIES MUST BE VERIFIED BY THE TESTING AGENCY OF RECORD AND THE WALL DESIGNER NOTIFIED OF SOILS DIFFERENT THAN THOSE NOTED HEREIN.
7. WALL BATTER WILL BE 2.0 H TO 1.0 V POOL COURSE.
8. THESE PLANS ARE BASED THE SHEETS C&S 1 OF 1 OF THE PROJECT PLANS BY MARAKAMAKO DATED MARCH 11, 2020. THE TOP AND BOTTOM OF WALL ELEVATIONS AND SLOPES IN THE VICINITY OF THE WALLS MUST BE VERIFIED BY THE WALL INSTALLER BEFORE BEGINNING WALL CONSTRUCTION. THE WALL DESIGNER MUST REVIEW ANY CHANGES TO THE WALL DIMENSIONS OR SLOPES AROUND THE WALLS.
9. THE WALL DESIGNER ASSUMES NO LIABILITY FOR INFORMATION PROVIDED BY OTHERS OR NOT VERIFIED.
10. ALL 2.0' HX 2.0' CRUSHED STONE FILL MUST BE PLACED IN MAXIMUM 12.0" HIGH THICKETS AND COMPACTED WITH A MINIMUM OF TWO PASSES OF A COMPACTOR. THE 12.0" HX 2.0" FILL MUST BE PLACED IN MAXIMUM 8" HIGH THICKETS AND COMPACTED TO A MINIMUM OF ONE STANDARD COMPACTION (ASTM D698). THE COMPACTON OF EACH LIFT OF SOIL FILL MUST BE VERIFIED BY THE TESTING AGENCY OF RECORD WITH AT LEAST ONE TEST PER 5000 SQ. FT. OF FILL PLACED PER LIFT, PER DAY.
11. MAXIMUM WALL BEARING PRESSURE = 2500 PSF.
12. THE LONG-TERM STATIC GROUNDWATER LEVEL IS ASSUMED TO WELL BELOW THE BOTTOM OF THE WALLS (GREATER THAN 10.0 FEET WITH THE MAXIMUM SHORT TERM WATER LEVEL. ON WALLS 2 & 3 ONLY UP TO THE BASE OF THE WALLS.
13. ALL QUANTITIES NOTED DO NOT INCLUDE ANY WASTE OR OVERLAP REQUIRED AND ARE BASED ON IN PLACE COMPACTED VOLUMES. THE INSTALLER MUST VERIFY ALL QUANTITIES.
14. WALL HEIGHTS SHOWN MUST NOT EXCEED WITHOUT THE CONSULTATION AND APPROVAL OF THE WALL DESIGNER.
15. ALL FALC BLOCK MUST BE CUT LIMESTONE NATURAL BLOCKS 2.0 FT. TALL, 2.0 FT. DEEP AND 4.0 FT. LONG OR 1.0 FT. TALL, 2.0 FT. DEEP AND 4.0 FT. LONG.
16. ALL REINFORCING GEOSTRIPS MUST BE SYSTEM SF35 GEOTRIPS AS SHOWN ON THE WALL PROFILES AND DRAWINGS.
17. ALL UTILITIES BEHIND, IN FRONT AND UNDER THE WALLS SHOULD BE INSTALLED BEFORE COMMENCING WALL CONSTRUCTION TO LIMIT DISTURBANCE AND DAMAGE TO THE GRID AND UNDERPINNING OF THE WALLS. THE COMPACTOR OF ALL UTILITY DISKETS UNDER THE BLOCK AND GRID ZONES MUST BE VERIFIED TO BE AT LEAST 90 STANDARD COMPACTION (ASTM D698).
18. ALL UTILITIES BEHIND, IN FRONT AND UNDER THE WALLS ARE SHOWN ON THE WALL PROFILES AND DRAWINGS.
19. CARE MUST BE TAKEN WHEN INSTALLING ANY UTILITIES, STRUCTURES OR LANDSCAPING BEHIND THE WALLS SO AS NOT TO DAMAGE THE GEOTRIP OR WALL FACE. ANY DAMAGED GEOTRIP OR WALL FACE DISTORTION MUST BE RE-AGED.
20. ANY SPRINGS, SEEPS OR OTHER WATER SOURCES NOTED IN THE SOIL EXCAVATION MUST BE IMMEDIATELY REPORTED TO THE WALL DESIGNER FOR REMEDIAL ACTION.
21. MAX 250 PSF LIVE LOAD FOR HEAVY DUTY TRUCK TRAFFIC AND PARKING AT LEAST 30' BEHIND THE WALLS.
22. ALL FILTER FABRICATION MUST BE SHAKS OT40 NONWOVEN FABRIC OR EQUIVALENT EQUIVALENT.
23. FACTOR OF SAFETY USED IN THE WALL DESIGN SLIDING = 1.5, OVERTURNING = 2.0, BEARING CAPACITY = 2.0, STATIC GLOBAL STABILITY = 1.3
24. 

WALL NOTES

DRAWN BY: CMM	DATE: 04/14/20	SHEET: 10 OF 1
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