

09

Appendix

08.1 Engagement Attendees

08.2 Survey Responses

08.3 Site Surveys

08.4 Accessibility Assessment

08.5 Environmental Resource Inventory

08.6 Geotechnical (Barton Springs Road Bridge Improvements)

Work session attendees



TEL 512 472 6721
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Attendees

Project	UMLAVE HPEV PLAN	Project No.	31C123028
Date	8/8/2023	Mtg time	5:30p
Subject	ENVIRONMENTAL SMALL GROUP WORKSESSION	Location	UMLAVE

Name	Org.	Email address
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[illegible]

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Attendees

Project	UMLAUF HPEU	Project No.	31C:230
Date	8/9/2023	Mtg time	5:30
Subject	NEIGHBORHOOD SMALL WORKSESSION	Location	UMLAUF

Name	Org.	Email address
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[illegible]

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Attendees

Project	UMLAUF HFEU	Project No.	
Date	8/7/2023	Mtg time	5:30
Subject	ARTS WORKSESSION	Location	UMLAUF

Name	Org.	Email address
------	------	---------------

[illegible]

TAG attendees

Attendees

Project

UMLAUF HPEU PLAN

Project No.

31Ci23028

Date

8/7/2023

Mtg time

11:30 a

Subject

TAG MTG #1

Location

UMLAUF

Name	Org.	Email address
GINNY CHILTON	PAGE	gchilton@pagethink.com
Melissa Gutierrez	Page	mgutierrez.soto@pagethink.com
Kim McKnight	PARD	kim.mcknight@austintexas.gov
Al Nakka	DAE	al.nakka@compair.com al.nakka@compair.com
Justin Good	TPW	justin.good@austintexas.gov
Christine Garul	PARD	christine.garul@austintexas.gov
Steven Linett	PARD	steven.linett@austintexas.gov
Juan Bustillos	PARD	Juan.Bustillos@austintexas.gov
John Middleton	WPD	John.Middleton@austintexas.gov
Ellen Colfax	PARD	ellen.colfax@austintexas.gov
Laura Esparza	PARD	laura.esparza@austintexas.gov
MARGARET ROBINSON	AR	margaret@asakurarobinson.com
CHRISTINA MOON	AR	christina@asakurarobinson.com

Public Session Attendees

First session:

Checked In	RSVP Studio Tour	Last Name	First Name
X	Yes	Alaniz	Reynaldo
X	Yes	Bhaduri	Sway
X	Yes	Breaux	Ellen
X	Yes	Chaussonnet	Valerie
X	Yes	Daniel	Brooke
X	Yes	Embry	Elise
X	Yes	Erickson	Eric
X		Frank	Karl
X		Frank	Jeanne
X		Gonzalez Featherston	Ingrid
X	Yes	Haskins	Jason
X	Yes	Lewellyn	Patricia
X	Yes	Lewellyn	Larry
X		McCoy	Marilyn
X	Yes	O'Callaghan	Patrick
X	No	Ortiz	Marie
X	Yes	Peveto	Charles
X	Yes	Priour	Paula
X	Yes	Priour	Jj
X	Yes	Puckett	Caitlin
X		Rogers	Shannon
X		Thompson	Frances
X	Yes	Umlauf	Carla
X		Weiss	Richard
X		Wendt	Elaine
X		Ulmer	Leland
X		Hajka	Al
X	Yes	Moragne y Silva	Michele
X	Yes	Vidal	
X		Cheng	Jason
X		Williams	Penelope
X		Harrington	Eden
X		Martin	Russell
X		Estrada	Gustavo
X		Estrada	Alonso
X		Franz	Charlene
X		Scott	John
X	Yes	Cheng	Jason
X	Yes	Connelly	Jane
X		Dukes-Williams	Penelope
X		Embry	Elise
X	Yes	MacGuire	Casey
	Yes	Arteaga	Lisa
	Yes	Barber	Leila
	Yes	Beckage	Jeff
		Crawley	Jamie
	Yes	Hall	Dee
	Yes	Hierholzer	Deseree
		Lowe	Jo Ann
		Lowe	Wes
		Minardi	Toni
		Moragne e Silva	Michele
	Yes	Pate	Karen
	Yes	Piper	David
	Yes	Sebert	Pete
	Yes	Wendt	Elaine
		Williams	Charles
		Zepeda	Elizabeth

UMLAUF HPEU PLAN

Second session:

First Name	Last Name	Attended?
Charlotte	Boyle	Attended
Jim	Brady	Attended
Jennie	Branch	Attended
Dee	Hall	Attended
Kimberly	Kohlhaas	Attended
Russell	Martin	Attended
Michael	McGill	Attended
Charles	Peveto	Attended
Shannon	Rogers	Attended
Wyatt	Sharporn	Attended
Nhat	Ho	Attended
Gus	Voelzel	Attended
Jonathon	Todd	Attended
Dale	Huggins	Attended
Caitlin	Puckett	Attended
Weiss	Richard	Attended

Third session:

Attended?	First Name	Last Name
YES	Caitlin	Puckett
YES	Charlotte	Boyle
YES	David	Downing
YES	Dianne	Hill
YES	Ellen	Breaux
YES	Gail	Vittori
YES	Gus	Voelzel III
YES	Ingrid	Weigand
YES	Jade	Walker
YES	Jim	Brady
YES	Marcelle	Spilker
YES	Marie	Ortiz
YES	Michele	Moragne e Silva
YES	Paula	Brady
YES	Penelope	Dukes-Williams
YES	Pliny	Fisk
YES	Reynaldo	Alaniz
YES	Skyler	Korgel
YES	Lee	Edwards
YES	Coleen	Flannagan
YES	Weiss	Richard
YES	Jennie	Branch
YES	Laura	Esparza
YES	Jonathan	Todd
YES	Dale	Huggins

Survey

Is there anything else you would like to share about the UMLAUF?

- Love the bronze pourings!
 - Please don't reduce the garden to a minimalist manicured look. I like the natural aspect
 - Accessibility for all spaces at UMLAUF. Extending the current sculpture trails seamlessly to a new path getting up to the house and studio on the hill.
 - Overall I think the Umlauf Sculpture Garden could benefit by being a community gathering space for public lectures, exhibits, shows, art, classes, etc. I feel the Umlauf Garden has the potential and space to set the precedent in Austin for what a public art and museum space could be and I would like to be a part of that journey.
 - Would like to see more/better access to riverfront areas (platforms/ sitting areas/ sculpture)
 - the house and property should be accessible to the public.
 - Amazing space and legacy to Austin's Art History.
 - I always thought that the Umlauf should focus on Texas and local artists. I am intrigued by the environmental focus in this survey, and think that the Umlauf should pursue that.
 - I'm concerned about the 'health' of the retaining wall at the corner of Azie Morton and Barton springs Road -- with the house up above on the hill.....
 - Great exhibit. I had a wonderful time.
 - There needs to be more emphasis on why sculpture, as a medium, is important. More education on the medium itself.
 - Needs more public awareness
 - i really appreciate that you can walk all over the gardens and that the space has more of a nature feel than a manicured garden. it is beautifully maintained and feels welcoming.
- Sculptures are the theme and less broadly "art" so it'd be nice if more sculpture insight was provided. Materials, techniques, newer technologies, etc. to bring the art form into fuller view.
 - It's important to preserve another Austin icon; combines the art & nature aspects that many love Austin for!
 - Love the programing - wish that some of the social events were less expensive. Also more programing in Spanish or for underserved communities?
 - Concerts. It will help bring people to the park who wouldn't go otherwise
 - I found it by happenstance but I find the art and garden to be a nice place to relax and view various forms of art
 - Rewilding!
 - I love the UMLAUF and am so glad to have it in our city. I especially like the free events that happen occasionally! Thanks for this outreach effort and I'm excited to see what the future holds for you all!
 - Will these spaces be safe? I understand there's a lot of homeless nearby. I don't want to be harassed or attacked when visiting a museum.
 - It's a treasure!
 - I'm thankful for the peaceful nature of the garden and polite and friendly personality of the attendants.
 - Very cool. Would love to learn more about Charles's wife and their relationship. Maybe even be able to read some of her poems
 - Love the nature incorporated pieces!!
 - An amazing and unique sculpture garden in Austin, with an amazing team
 - I would love to see more indoor exhibition space so that exhibitions
- could delve into the subject or concept presented in more depth and also more space would create more of a worthwhile destination even in bad weather.

 - Try to integrate planning with Zilker Park.
 - Such a beautiful space that can be used for many more exhibits from local artists along with the beautiful Umlauf sculptures.
 - I wish you would level and pave the main trails in the garden for easier access for mobility impaired persons, especially those in manual wheelchairs. The gravel is sometimes uneven or slippery for those with walking disabilities. Please keep having Umlauf After Dark events, those are our favorites to attend!
 - More ADA compliant programming. ramps, parking spaces,
 - Please save our UMLAUF, a hidden gem.
 - It I would be lovely to also have outdoor meditation and yoga classes. Self-care talks and presentations would be nice as well.
 - Love your vendor markets!
 - Free day a week would be great!
 - Amazing garden! Loved all volunteers and greeters.
 - Addition to more native plants and flowers and parking space.
 - Love this place!
 - I like the historical parts to the art and how it was made
 - More flowers around the garden
 - I loved this experience! My one suggestion, in order to reduce paper. I would have a plaque next to each exhibit and have the small blurb that's on the map, directly in front of the sculpture.
 - We love coming on free days, would love to see those expanded if possible.
 - It's a lovely space. Taking care of it and making it more arts centric is important. While I have attended a wedding there that was very

Survey

Is there anything else you would like to share about the UMLAUF?

- nice, I think that kind of use should be limited.
- Thank you
- The UMLAUF is a treasure! Keep up the great work.
- Just so grateful for this place
- I haven't been able to attend in months because there is never anywhere to park
- I would love for it to be a beautiful garden to visit with more focus on the sculptor and his sculpture, with underlying strategy of smart environmental stewardship. Don't try to do too many things.
- Have a meditation space/class (like the Yoga classes), Dance lessons, identify the tree species
- It would be nice to have tickets to keep as souvenirs (ie: MFA, other art museums usually have printed tickets)
- Katie Robinson Edwards is a superb curator and director. I look forward to more interesting exhibits at the Umlauf under her stewardship.
- A lovely place
- I would like to see a true tie between the home and studio and the sculpture garden. It could be cool to utilize the home similarly to the blue house of Frieda Kahlo in Mexico city where it is preserved intact but has excellent information on the artists process and life. It would be great to also have classes that are specific to sculpture and keep the space sculpture centric. I would also love for the gardens to be more intentional visually and more sustainable is design and maintenance.
- Love this place
- This land area was a historic gathering zone for the Iroquois Confederacy peace conference of Indigenous peoples, and was sacred land for the Tonkawa people. There should be a "Land

- Acknowledgement" in all the UMLAUF's materials. A good example from UT is here: <https://www.ischool.utexas.edu/indigenous-land-acknowledgment>
- I love this garden and museum. Good luck making changes with the neighbors y'all have!
 - Beautiful grounds wonderful staff
 - It is such a charming space! No parking lots please- just more access to the whole of it by opening up the house and having classes there like Laguna Gloria
 - Provide more of a balance of all the types and themes of Umlauf's throughout his career. Right now the garden seems to exhibit too many of his religious works. Thanks for asking!
 - More publication, particularly by City of Austin, about Umlauf Gardens -- gem in downtown Austin.
 - Art in nature.
 - It's a jewel. But sort of overlooked locally
 - Parking is number 1. There is zero parking across the street now. So it can take 20 min. To find a spot. Easier parking/ shuttle from Zilker etc.. make it more likely for more frequent visits.
 - Garden open for meditation/quiet contemplation during non public hours
 - Love it!
 - Beautiful place
 - It's a wonderful place - it's just hard for a young family to access.
 - UMLAUF is a treasure and I have great faith in the current leadership.
 - It would be great to see more of the Home/Studio. My husband and I visited several months ago and tried to see it, only we were yelled at for trespassing. It was really rude and unprofessional. We

- were later told that was the museum's Director. So, if you do have Home/Studio open to public, you need to have clear instructions so visitors understand. Yelling at paying visitors is no way to run a business.*
- The UMLAUF currently feels very much like a DIY local museum. Any new work should focus on elevating the experience and making it a world-class museum/must-see Austin destination. I'd hope that the UMLAUF be open to progressive ideas that take the UMLAUF beyond its current state of unmaintained irrelevance, otherwise the cost and effort of the project will not be worth it.
 - Yes, to paraphrase what I responded to a question above, I think the sculpture garden and artists home would be a much better venue for fine art (especially sculpture) and local art rather than contemporary art. I've seen some exhibits here and I appreciated some (the tall chairs were amazing and a soundbath inside the gallery area had an installation of a projector that displayed flower that would either wilt or grow when your shadow passed through them and those were amazing) but to be honest, very few felt like they were in their natural setting and some felt noticeably out of place (there was an installation using pvc pipe around the pond a couple years ago and i think one using strips of tire). Also, I believe the space at the top of the trail where has a good amount of space for more of Umlaufs works as well as some other areas around the garden. I actually have more ideas (I'm a full time independent artist so of course I have opinions on all of this lol) but I don't want to ramble too much. Thank you for your time and your contribution to the garden it's a really wonderful space.
 - Many people in Austin have not seen the beautiful UMLAUF space. If you are looking at doing more, Laguna Gloria is a good

Survey

Is there anything else you would like to share about the UMLAUF?

- example to follow, albeit with a much bigger area that can handle a lot: public and private event rentals, art classes, a gallery space, beautification and upkeep of the grounds, an on-site restaurant, etc.

 - This is a beautiful space, thank you!
 - More of it needs to be more accessible to the public.
 - Please make sure that the current political climate of “anti-woke-ness” has no place in this facility. While some restraint should typically be exercised in creating any public display, UMLAUF should provide for artistic expression that seeks to tell a true story, irrespective of socio-political or economic orientation.
 - I’d like to suggest a biography of the artist of his life and his art for children. One at elementary level and one at middle school level. Perhaps a photo display of his life.
 - stay true to the uniqueness of this place...don’t loose the magic
 - La jefa de la UMLAUF es muy mala. Me gritó por tomar una bandera del ORGULLO en Junio.*
 - In terms of increasing public access, dealing with parking and providing more direct access through public transportation would go a long way. I think that we might also create more interest by mounting some rotating outside exhibits more often, and anything interactive/”instagramable” is always a good pull. In terms of the house and studio and small garden, I really think that no matter what direction we go in terms of their use, the fact that we have those spaces existing as they did +20 years ago is an amazing and unique resource that we should protect. I am not familiar enough with environmental factors to really comment, but I do know that one aspect that visitors really enjoy is nature, and we should do everything in our power to continue to preserve that.
- I would like to see better leadership at the Executive level on the UMLAUF staff. The local reputation of its current ED/Curator is underwhelming and does not provide the local public confidence that this project will see completion in the near future.*
 - Need to preserve the calm ambience of the garden. Keep it informal.
 - Preserve its uniqueness.
 - Love it
 - Very excited about this next phase for the UMLAUF!
 - Thank you for protecting this beautiful space.
 - It’s a great space!
 - While we greatly enjoy the permanent collection we would like to see a dedicated area featuring modern artists and rotating exhibits in the gallery/visitor center. A walk through of his studio and home would be helpful to learn about Charles Umlauf’s history and work process.
 - I don’t know much about UMLAUF so I don’t have much of a preference for preserving historic parts of the home and studio, as much as making the space more accessible and enriching for the community (in whatever way). At my first visit I really enjoyed all the outdoor space and sculptures but I didn’t learn much about the context, process, and significance of the works. If I did, maybe I would feel more strongly about preservation of the studio, but I feel like I would rather advocate for more public use and education instead?

** The UMLAUF carefully reviewed all community comments and values the feedback received. These statements have been thoroughly investigated by our staff and Board of Directors.*

Programming Workshop

Results from Programming Workshop with the UMLAUF

UMLAUF Space Needs Assumptions

Space	Size	Occupants	Occupancy Type / Ratio
2022 IBC TABLE 1004.5 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT			
Exhibit Gallery	1,800	60	Assembly - Exhibit gallery and museum
Gallery Storage	1,000	4	Accessory storage areas
Event Hall / Large Meeting Room	2500	172	Assembly without fixed seats
Bride's Room / Restroom (2)	300	1	Accessory storage areas
Kitchen	400	2	Kitchens, commercial
Restroom - Men	250	0	Accessory Use
Restroom - Women	250	0	Accessory Use
Events Workroom	200	1	Accessory storage areas
Events Storage	200	1	Accessory storage areas
Small Meeting Room	200	14	Assembly without fixed seats
Small Meeting Room 2	200	14	Assembly without fixed seats
Classroom	500	34	Assembly without fixed seats
Classroom	500	34	Assembly without fixed seats
Classroom	250	14	Assembly without fixed seats
Exec. Director Office	120	2	Business areas
Ops Director Office	120	2	Business areas
Shared Staff Office	480	2	Business areas
Staff Breakroom	175	0	Accessory Use
Staff Restroom	80	0	Accessory Use
Grounds Maintenance Storage	250	1	Accessory storage areas
Subtotal NSF	8,475	344	
20% Circulation	1,695 SF		
30% Grossing Factor	3,051 SF		
Total Building GSF	13,221 SF		

lower level

Exhibits

Events

Arts & Education

Ops

2500 (357) 167

150 round tables, dance floor, buffet

Wannan over

Star, 2 refrid

2 freeze

117 60" rounds

100 chairs

25 8' rectangle tables

Archive, public

anon carter

events dir

facilities

20,000

7000

elevator

freight size

green roof

1 amar / milk

Parking - double deck controlled access

- rainwater cistern

- accessible via existing grade, no ramp

- coffee shop / serve dinner

- phased 2nd level - building?

Residence

Existing Space	Est. Size	Current Use	Projected Use
Entry Hall**	442		
Living Room**	433		
Kitchen**	137		
Dining Room	358		
Laundry	44		
Bedroom 1	255		
Bedroom 2	178		
Bedroom 3	209		
Bedroom 4	155		
Bath 1	49		
Bath 2	48		
Comdor	40		
Storage	255		
Carport	(570) 329		
Mechanical Room	181		
Closet	37		
Storage	52		
Net Total	2,873		

Preservation

STUDIO

HOUSE MUSEUM

FURNITURE - NOT ORIGINAL

- REPRESENTATIONAL

MINIMAL ONLY

CURATE HOME EXPERIENCE

ART WORK ON VIEW

"ETHOS" PRESERVE PATINA

SMALL MEETINGS SPACE

BEDROOMS = INTERPRETIVE

FAMILY LIFE

EXHIBIT SPACE

ARCHIVES / OFFICE

LOWER LEVEL - PRIVATE TOUR

ELEC RENOV

'HUMBLE,

ECONOMICAL'

Historic Pre

View

Path 1

Bed 4/

Bed 3

Path 2

Sales gallery

View 2

Charles & Angie Umlauf Residence

View 1

View 3

View 4

View 5

View 6

View 7

View 8

View 9

View 10

View 11

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View

Programming Workshop

Results from Programming Workshop with the UMLAUF

adjacent to entry

EXHIBITS

Visitor services, museum manager office

ADJACENCY

UMLAUF EXHIBIT

ROTATING GALLERY

treehouse home

gift shop, cafe

ARCHIVE STORAGE ON DISPLAY

STAGING EXHIBITS

ROTATING

250

WORKROOM 150

STORAGE FOR LIFT, GALLERY WALLS

minimal

Meyer museum San Angelo

museum standards

EVENTS

~~Visitor service~~

EVENT HALL 2500 SF

150 people

ROUND TABLES, DANCE FLOOR, BUFFET [357; 167]

PRE-CEREMONY SUITES (BRIDE'S)

[2]

dual use for large parties

ARTS

Museum and Gallery Building				
Existing Space	Area	Occupants		
Exhibit	1727			
Library	216			
Director's Office	239			
	853	40	Configuration Type	Max Capacity
	2,290	250	U-Shape	16 people
	206		Hollow Square	24 people
	57		Classroom	22 people
	156		Pods	28 people
	76		Round Tables	30 people
	225	1	Auditorium/Theater	40 people
	140	2		
	250	3		
Net Total	6,735			

need storage

gift shop

cafe

Museum mgr

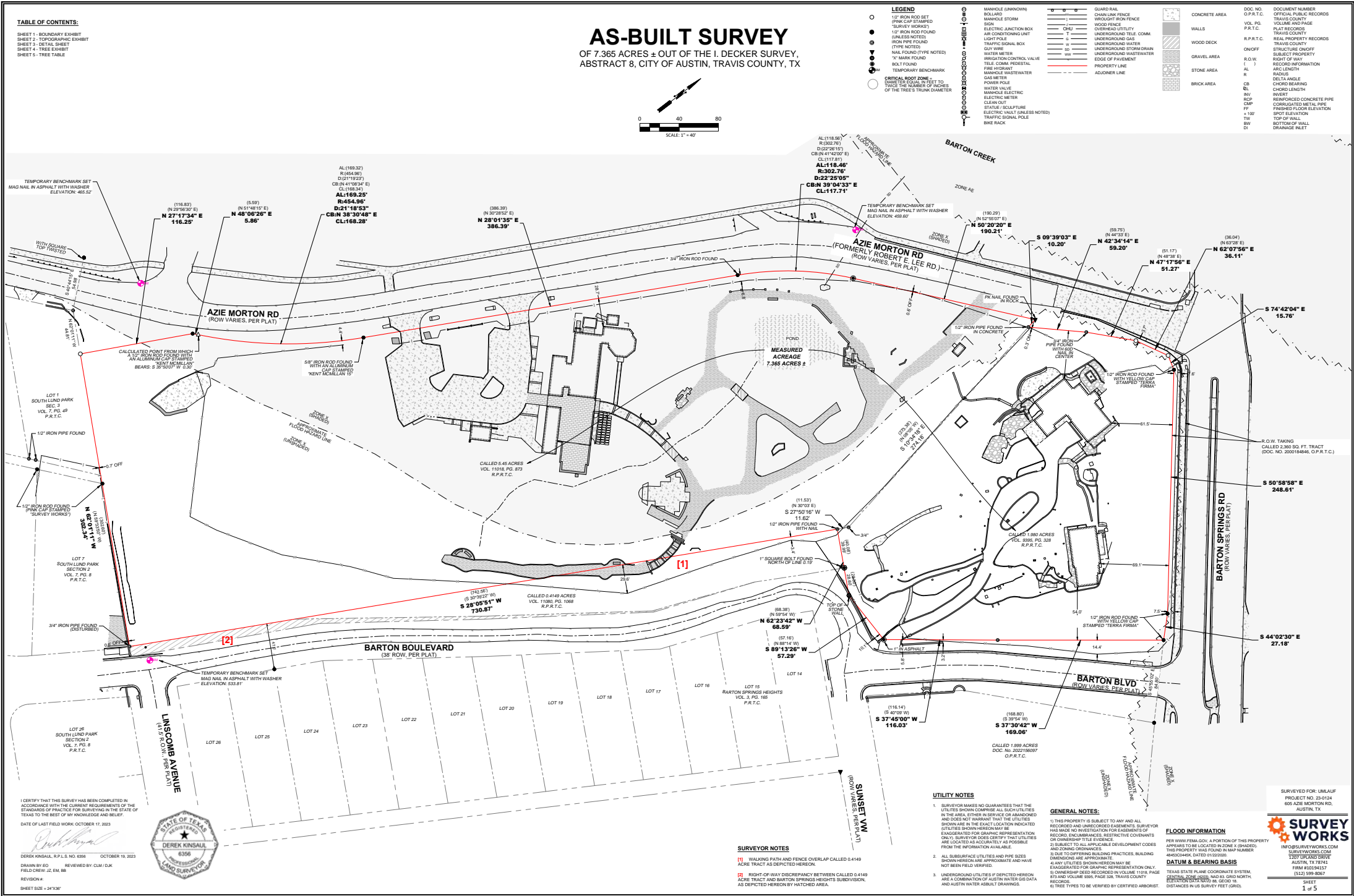
Exhibits

Events

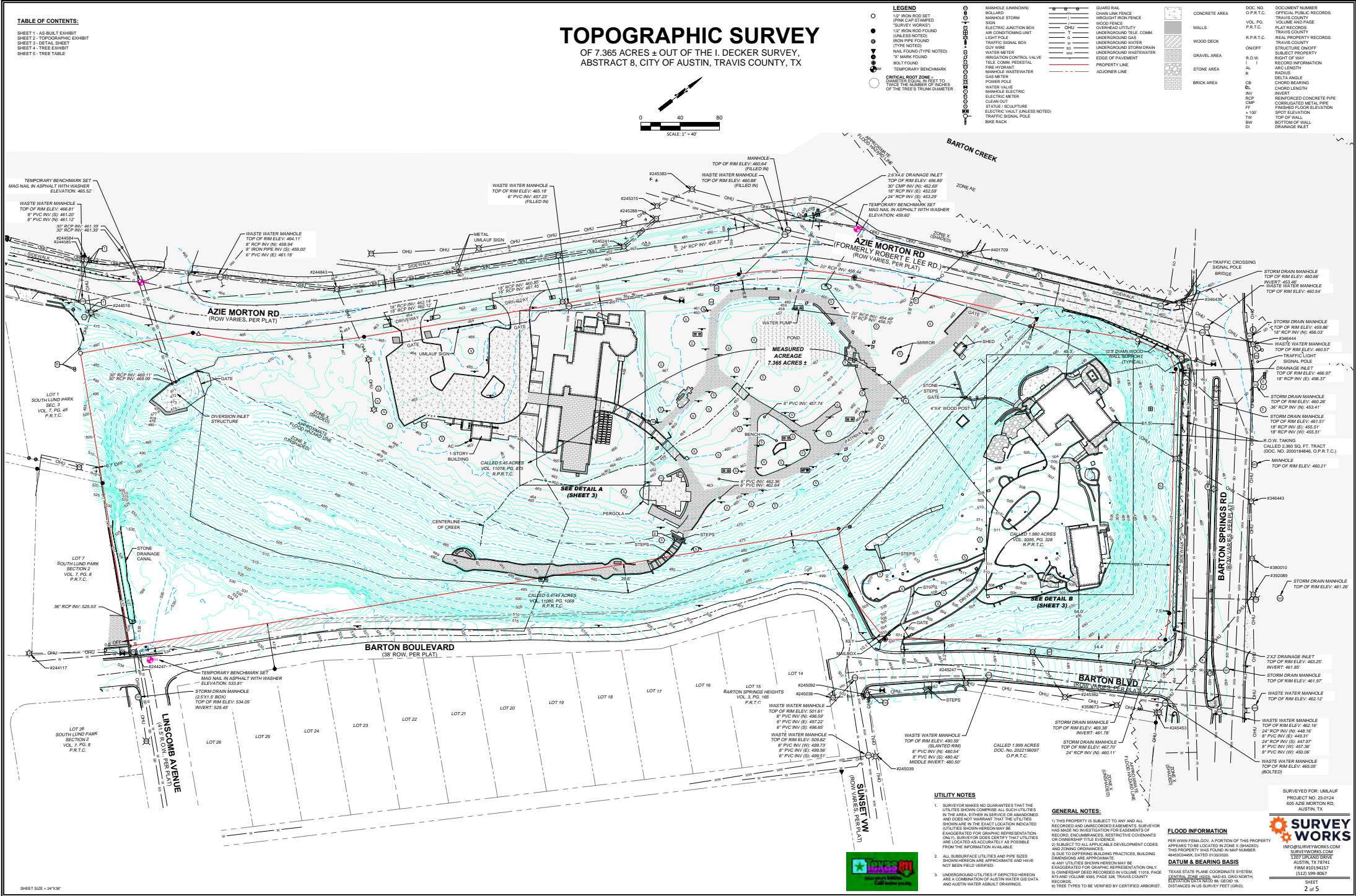
Arts & Education

Ops

As-built Survey

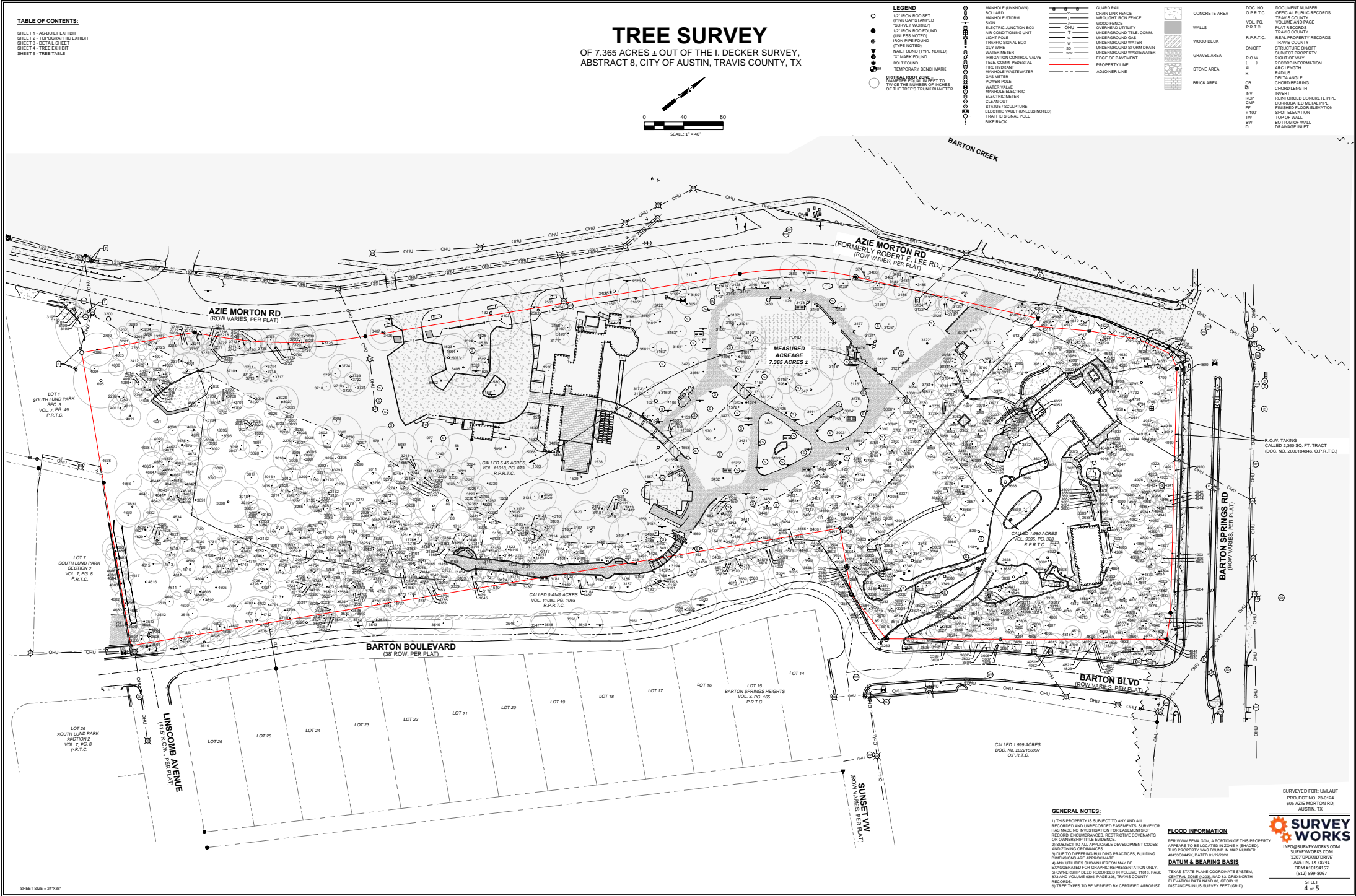


Topographic Survey



UMLAUF HPEU PLAN

Tree Survey



GENERAL NOTES:

1) THIS PROPERTY IS SUBJECT TO ANY AND ALL
RECORDED AND UNRECORDED EASEMENTS. SURVEYOR
HAS MADE NO INVESTIGATION FOR EASEMENTS OF
RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS
OR OWNERSHIP TITLE EVIDENCE.
2) SUBJECT TO ALL APPLICABLE DEVELOPMENT CODES
AND ZONING ORDINANCES.
3) DUE TO DIFFERING BUILDING PRACTICES, BUILDING
ELEVATIONS ARE APPROXIMATE.
4) ANY UTILITIES SHOWN HEREON MAY BE
RELOCATED FOR GRAPHIC REPRESENTATION ONLY.
5) OWNERSHIP DEED RECORDED IN VOLUME 11018, PAGE
874 AND VOLUME 1081, PAGE 201, TRAVIS COUNTY
RECORDS.
6) TREE TYPES TO BE VERIFIED BY CERTIFIED ARBORIST.

FLOOD INFORMATION

PER WWW.FEMA.GOV, A PORTION OF THIS PROPERTY
APPEARS TO BE LOCATED IN ZONE X (SHADED).
THIS PROPERTY WAS FOUND IN MAP NUMBER
4404030486, DATED 11/22/2020.

DATUM & BEARING BASIS

TEXAS STATE PLANE COORDINATE SYSTEM,
CENTRAL ZONE, 4301N, NAD 83, GRID NORTH,
ELEVATION DATA DATUM 88, GEOID 16,
DISTANCES IN US SURVEY FEET (GROSS).

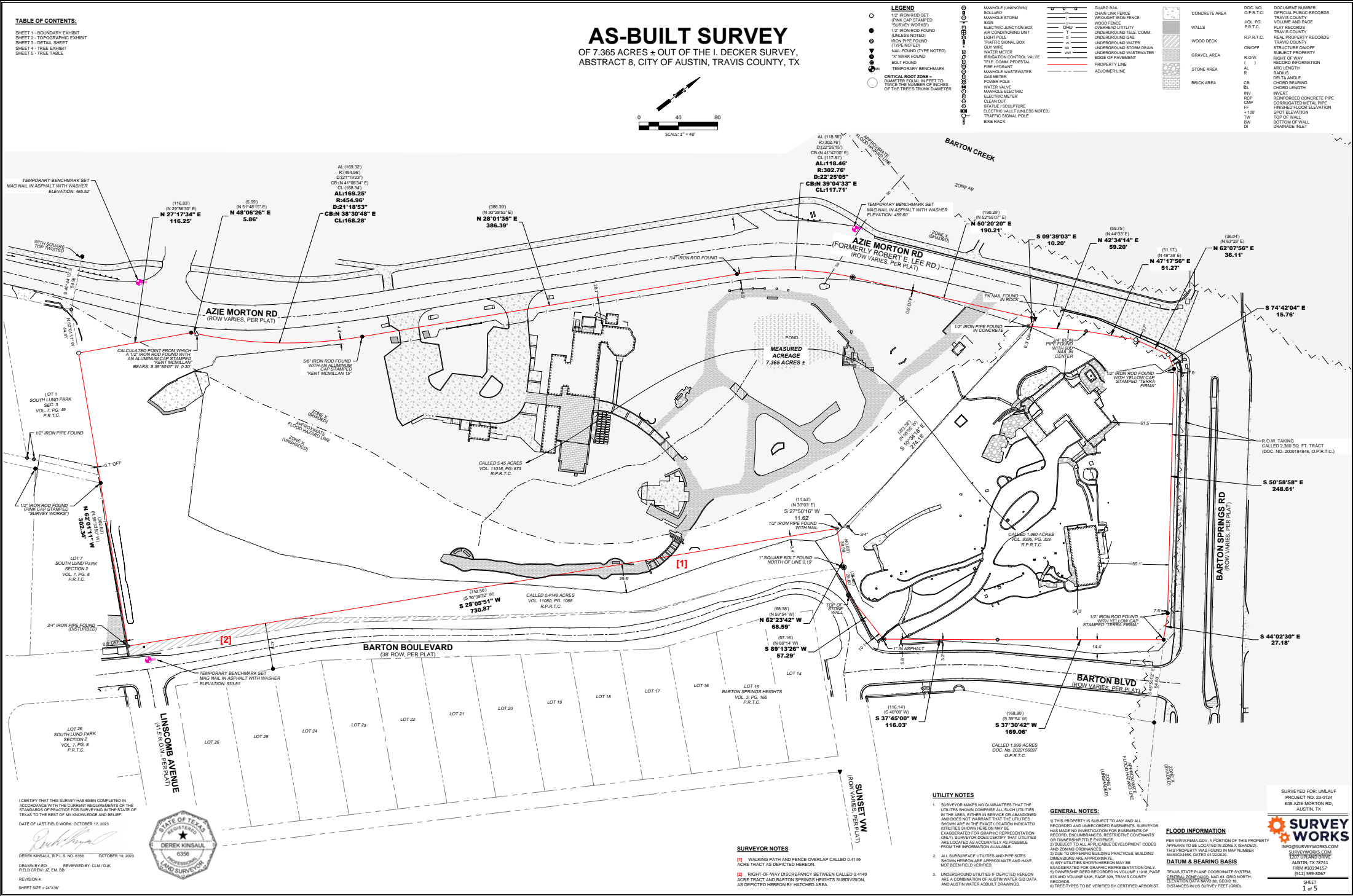
SURVEYED FOR: UMLAUF
PROJECT NO: 20-0124
655 AZIE MORTON RD,
AUSTIN, TX

SURVEY WORKS
INFO@SURVEYWORKS.COM
SURVEYWORKS.COM
1207 UPLAND DRIVE
AUSTIN, TX 78743
PRM 8021517
(512) 599-8067

SHEET
4 of 5

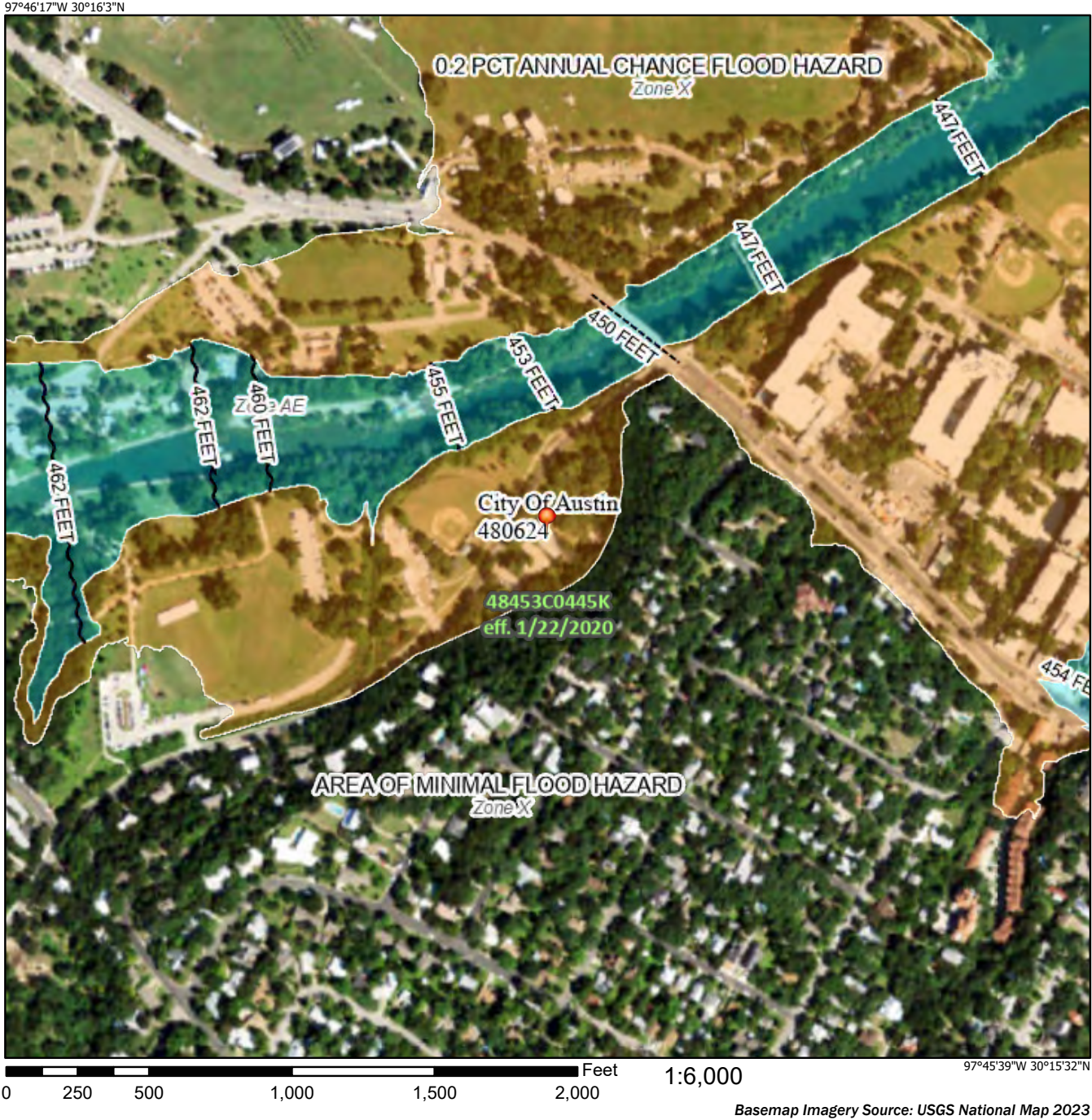
[illegible]

Impervious Cover Exhibit



FEMA FIRMette

National Flood Hazard Layer FIRMette



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/25/2024 at 9:49 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

ADA Assessment



November 12, 2023

CLIENT:
Page
c/o Ginny Chilton
400 W. Cesar Chavez St., Ste.500
Austin, TX 78701

PROJECT:
Umlauf Sculptural Garden & Museum
605 Azie Morton Rd., Austin, TX 78704
Contour Project No: 23-132
Lead Designer: Page



REGISTERED ACCESSIBILITY SPECIALIST:
Elaine Andersen, RAS #1284
Co-Founder

EXISTING CONDITIONS ASSESSMENT

This report presents the findings of the on-site inspection for the *Umlauf Sculpture Garden & Residence Property* Project for compliance with the ADA Titles II & III utilizing the 2010 Standards, the Texas Accessibility Standards and the City of Austin IBC Chapter 11. For brevity in the report the TAS is the referenced barrier code. Title II of the ADA will discuss Program Access. This report is limited to inspecting the elements for compliance with the applicable technical standards and scoping. An inspection of the site was conducted on *November 7, 2023*, which included the review of existing elements listed below.

Parking, Museum Gallery & Offices, Exterior Sculpture Garden and Umlauf Residence.

In 2015, the City of Austin Parks & Recreation Department had an ADA Transition Plan done and an assessment was done at the Umlauf. The Transition Plan also discusses Program Access compliance. It is recommended it also be referenced. It may be found here: <https://www.austintexas.gov/department/americans-disabilities-act-transition-plan>

If you have any questions, contact Elaine Andersen at Elaine@Contour-Collective.com.



Comment #1: NON-COMPLIANT; Accessible Parking

LOCATION: Parking

FINDING: Currently there are two accessible parking spaces. One shall be designated as van accessible with a wider access aisle. The parking slopes are up to 2.6%, whereas 2% is the maximum slope in all directions.



2012 TAS CODE REFERENCES:

208 Parking Spaces
208.1 General. Where parking spaces are provided, parking spaces shall be provided in accordance with 208.
EXCEPTION: Parking spaces used exclusively for buses, trucks, other delivery vehicles, law enforcement vehicles, or vehicular impound shall not be required to comply with 208 provided that lots accessed by the public are provided with a passenger loading zone complying with 503.
208.2 Minimum Number. Parking spaces complying with 502 shall be provided in accordance with Table 208.2 except as required by 208.2.1, 208.2.2, and 208.2.3. Where more than one parking facility is provided on a site, the number of accessible spaces provided on the site shall be calculated according to the number of spaces required for each parking facility.

Table 208.2 Parking Spaces	
Total Number of Parking Spaces Provided in Parking Facility	Minimum Number of Required Accessible Parking Spaces
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over 1000

Advisory 208.2 Minimum Number. The term "parking facility" is used Section 208.2 instead of the term "parking lot" so that it is clear that both parking lots and parking structures are required to comply with this section. The number of parking spaces required

ADA Assessment

CONTOUR COLLECTIVE

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to be accessible is to be calculated separately for each parking facility; the required number is not to be based on the total number of parking spaces provided in all of the parking facilities provided on the site.

502 Parking Spaces

502.1 General. Car and van parking spaces shall comply with 502. Where parking spaces are marked with lines, width measurements of parking spaces and access aisles shall be made from the centerline of the markings.

EXCEPTION: Where parking spaces or access aisles are not adjacent to another parking space or access aisle, measurements shall be permitted to include the full width of the line defining the parking space or access aisle.

502.4 Floor or Ground Surfaces. Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted.

EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

Advisory 502.4 Floor or Ground Surfaces. Access aisles are required to be nearly level in all directions to provide a surface for wheelchair transfer to and from vehicles. The exception allows sufficient slope for drainage. Built-up curb ramps are not permitted to project into access aisles and parking spaces because they would create slopes greater than 1:48.

Comment #2: NON-COMPLIANT; Accessible Route

LOCATION: Entrance

FINDING: There is a portion of the pavers (red) that has a running slope exceeding 5% and therefore would need to meet ramp requirements of flat landings and handrails. However, if regraded (green) the running slope would be reduced to less than 5% and handrails and level landings are not required.



2012 TAS CODE REFERENCES:

403 Walking Surfaces

403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

405 Ramps

405.1 General. Ramps on accessible routes shall comply with 405.

EXCEPTION: In assembly areas, aisle ramps adjacent to seating and not serving elements required to be on an accessible route shall not be required to comply with 405.

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Comment #3: NON-COMPLIANT; Restrooms

LOCATION: Gallery Restrooms

FINDINGS: The signage to the restrooms shall be on the latch side of the door.

Both men & women the lavatories are too high at 36", whereas 34" is the maximum height. The pipes are also not insulated.

Both men & women water closets are too close to the side wall, whereas 16-18" is the range.

Both men & women coat hooks are too high, whereas 48" is the maximum reach range.

Both men & women grab bars are mounted too high, whereas 36" to the top is the maximum. The women's rear grab bar is not mounted correctly over the water closet.

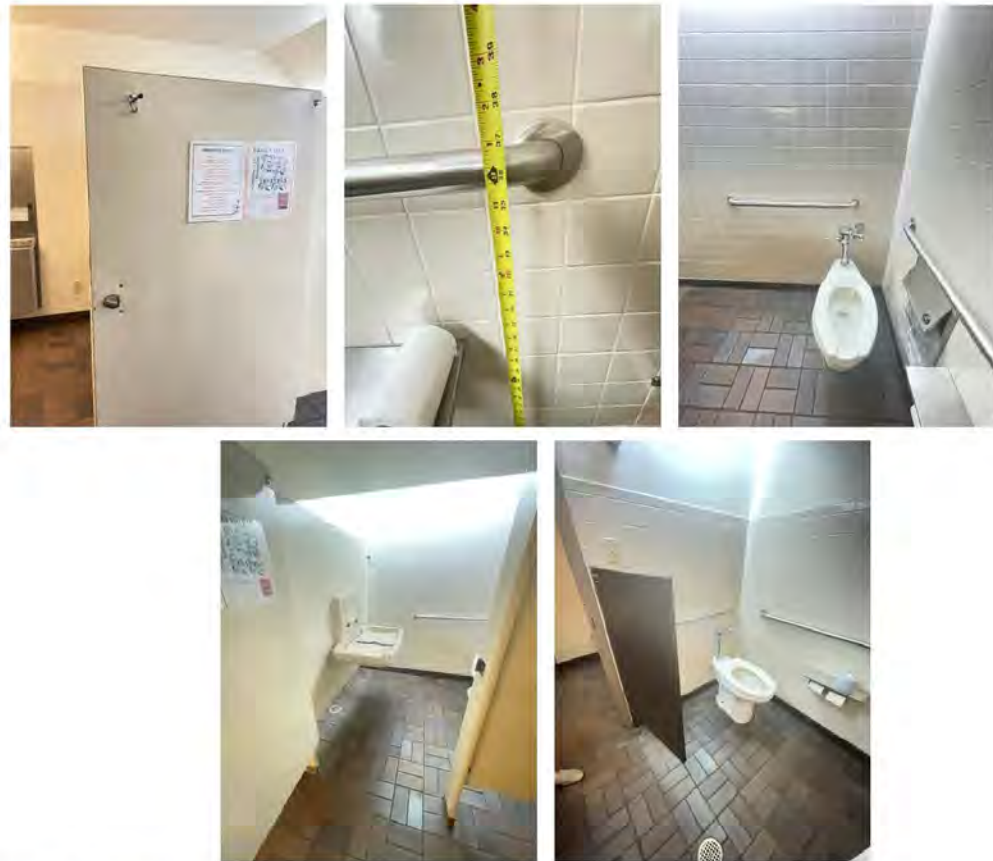
Baby changer in the women's overlaps the required door maneuvering clearance and the water closet clear floor space and is also a protruding object. It shall be relocated out of the accessible stall. Consider placement in the open position.

The men's partition impedes the required door maneuvering clearance. It shall be removed.



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2012 TAS CODE REFERENCES:

703 Signs

703.1 General. Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

703.4 Installation Height and Location.

703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leaves, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

EXCEPTION: Signs with tactile characters shall be permitted on the push side of doors with closers and without hold-open devices.

CONTOUR COLLECTIVE
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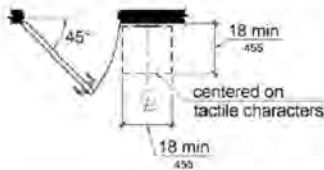


Figure 703.4.2 Location of Tactile Signs at Doors

606 Lavatories and Sinks

606.3 Height. Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches (865 mm) maximum above the finish floor or ground.

EXCEPTIONS:

1. A lavatory in a toilet or bathing facility for a single occupant accessed only through a private office and not for common use or public use shall not be required to comply with 606.3.
2. In residential dwelling unit kitchens, sinks that are adjustable to variable heights, 29 inches (735 mm) minimum and 36 inches (915 mm) maximum, shall be permitted where rough-in plumbing permits connections of supply and drain pipes for sinks mounted at the height of 29 inches (735 mm).

604 Water Closets and Toilet Compartments

604.2 Location. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Water closets shall be arranged for a left-hand or right-hand approach.

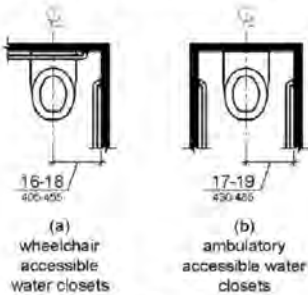


Figure 604.2 Water Closet Location

603 Toilet and Bathing Rooms

603.4 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604.5 Grab Bars. Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall.

EXCEPTIONS:

1. Grab bars shall not be required to be installed in a toilet room for a single occupant accessed only through a private office and not for common use or public use provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 604.5.
2. In residential dwelling units, grab bars shall not be required to be installed in toilet or bathrooms provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 604.5.

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3. In detention or correction facilities, grab bars shall not be required to be installed in housing or holding cells that are specially designed without protrusions for purposes of suicide prevention.

Advisory 604.5 Grab Bars Exception 2. Reinforcement must be sufficient to permit the installation of rear and side wall grab bars that fully meet all accessibility requirements including, but not limited to, required length, installation height, and structural strength.

604.5.2 Rear Wall. The rear wall grab bar shall be 36 inches (915 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.

EXCEPTIONS:

1. The rear grab bar shall be permitted to be 24 inches (610 mm) long minimum, centered on the water closet, where wall space does not permit a length of 36 inches (915 mm) minimum due to the location of a recessed fixture adjacent to the water closet.

2. Where an administrative authority requires flush controls for flush valves to be located in a position that conflicts with the location of the rear grab bar, then the rear grab bar shall be permitted to be split or shifted to the open side of the toilet area.

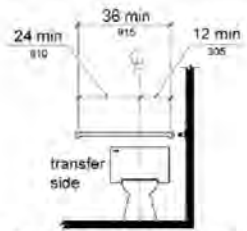


Figure 604.5.2 Rear Wall Grab Bar at Water Closets

609 Grab Bars

609.4 Position of Grab Bars. Grab bars shall be installed in a horizontal position, 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor measured to the top of the gripping surface, except that at water closets for children's use complying with 604.9, grab bars shall be installed in a horizontal position 18 inches (455 mm) minimum and 27 inches (685 mm) maximum above the finish floor measured to the top of the gripping surface. The height of the lower grab bar on the back wall of a bathtub shall comply with 607.4.1.1 or 607.4.2.1.

Technical Memorandum 2012 TAS
Texas Department of Licensing and Regulation Architectural Barriers

TM 2013-15 Baby Changing Tables
Effective Date: June 1, 2013
2012 TAS Reference: 902

Baby changing tables are work surfaces based on Advisory 902.1; therefore, if fixed or built-in baby changing tables are provided, at least 5%, but not less than one, must comply with TAS 902 based TAS 226.1.

Protruding Objects
Baby changing tables cannot violate the protruding object requirements of TAS 204 and 307 in either an open or closed position since either position is a potential hazard for persons with visual impairments.

Toilet Compartments
Baby changing tables are not prohibited from being located in wheelchair accessible toilet compartments; however, the minimum space required by TAS 604.8.1.1 for the compartment cannot be obstructed by the baby changing table in either an open or closed position.

To achieve compliance with TAS for both the toilet compartment and baby changing table, it may be necessary to design the toilet compartment to exceed the minimum size requirements of TAS 604.8.1.1 as addressed in Advisory 604.8.1.1.

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The clear floor space required for a baby changing table by TAS 902.2 may overlap the water closet clearance based on TAS 604.3.2 since baby changing tables are considered convenience "fixtures" based on Advisory 604.8.1.1. The overlap is applicable only to the clear floor space and not to actual table itself.

Dispersion
Baby changing tables must be dispersed throughout a space based on TAS 226.2, however, an additional baby changing table is not required in a common use area of a toilet or bathing room when the only baby changing table is located in a toilet compartment.

These clarifications do not constitute a substantive change to the compliance requirements of TAS.

404 Doors, Doorways, and Gates
404.2 Manual Doors, Doorways, and Manual Gates.
404.2.4 Maneuvering Clearances.
404.2.4.1 Swinging Doors and Gates. Swinging doors and gates shall have maneuvering clearances complying with Table 404.2.4.1.

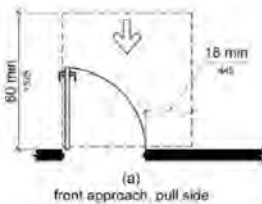


Figure 404.2.4.1 - Maneuvering Clearances at Manual Swinging Doors and Gates

ADA Assessment



Comment #4: NON-COMPLIANT; Recessed Door

LOCATION: Door to restrooms

FINDING: The door is in a 16" thick overall wall. However, the interior wall is 10" to the door frame and exceeds the maximum thickness allowed for a recessed door. The door shall be reformed within the wall to reduce the interior thickness to 8" or less.



2012 TAS CODE REFERENCES:

404 Doors, Doorways, and Gates

404.2 Manual Doors, Doorways, and Manual Gates.

404.2.4 Maneuvering Clearances.

404.2.4.3 Recessed Doors and Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.

Advisory 404.2.4.3 Recessed Doors and Gates. A door can be recessed due to wall thickness or because of the placement of casework and other fixed elements adjacent to the doorway. This provision must be applied wherever doors are recessed.

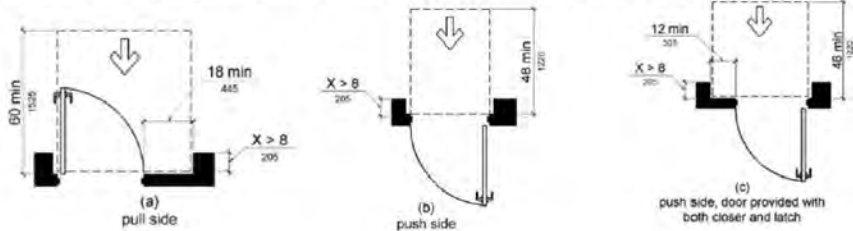


Figure 404.2.4.3 Maneuvering Clearances at Recessed Doors and Gates



Comment #5: NON-COMPLIANT; Drinking Fountains

LOCATION: Near the Gallery restrooms

FINDING: There is one 'low' fountain. An additional 'high' fountain shall be provided. The low is also a protruding object as the bottom edge is 27 1/2". The low shall be lowered 1/4" and the high fountain provide an apron for edge protection.



2012 TAS CODE REFERENCES:

211 Drinking Fountains

211.2 Minimum Number. No fewer than two drinking fountains shall be provided. One drinking fountain shall comply with 602.1 through 602.6 and one drinking fountain shall comply with 602.7.

EXCEPTION: Where a single drinking fountain complies with 602.1 through 602.6 and 602.7, it shall be permitted to be substituted for two separate drinking fountains.

602 Drinking Fountains

602.7 Drinking Fountains for Standing Persons. Spout outlets of drinking fountains for standing persons shall be 38 inches (965 mm) minimum and 43 inches (1090 mm) maximum above the finish floor or ground.

Comment #6: NON-COMPLIANT; Kitchen

LOCATION: Catering Kitchen

FINDING: Since the kitchen is for outside catering it is a public accommodation and shall be fully accessible. If the kitchen is for employees as a break area, it shall be fully accessible. If the kitchen is for employees only to cook as part of their job functions for events, etc; it may be exempt as an employee work area. The elements out of compliance are:
Sink height is too high and not enough knee space.
The microwave is out of an accessible reach range.

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2012 TAS CODE REFERENCES:

606 Lavatories and Sinks

606.1 General. Lavatories and sinks shall comply with 606.

Advisory 606.1 General. If soap and towel dispensers are provided, they must be located within the reach ranges specified in 308. Locate soap and towel dispensers so that they are conveniently usable by a person at the accessible lavatory.

308 Reach Ranges

308.3 Side Reach.

308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum for a reach depth of 10 inches (255 mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (1170 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

EXCEPTIONS:

1. The top of washing machines and clothes dryers shall be permitted to be 36 inches (915 mm) maximum above the finish floor.
2. Operable parts of fuel dispensers shall be permitted to be 54 inches (1370 mm) maximum measured from the surface of the vehicular way where fuel dispensers are installed on existing curbs.

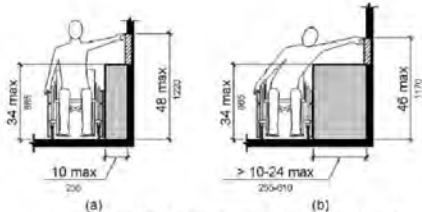


Figure 308.3.2 Obstructed High Side Reach

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Comment #7: NON-COMPLIANT; Protruding Objects

LOCATION: TV in the Gallery

FINDING: The wall mounted television protrudes off the wall more than 4". A slimmer TV or cane detection underneath shall be provided.



2012 TAS CODE REFERENCES:

307 Protruding Objects

307.2 Protrusion Limits. Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.

EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.

Advisory 307.2 Protrusion Limits. When a cane is used and the element is in the detectable range, it gives a person sufficient time to detect the element with the cane before there is body contact. Elements located on circulation paths, including operable elements, must comply with requirements for protruding objects. For example, awnings and their supporting structures cannot reduce the minimum required vertical clearance. Similarly, casement windows, when open, cannot encroach more than 4 inches (100 mm) into circulation paths above 27 inches (685 mm).



Figure 307.2 Limits of Protruding Objects

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Comment #8: NON-COMPLIANT; Sales & Service

LOCATION: Information and Transaction counter

FINDING: The counter is too high and shall provide a lower accessible counter at 36" maximum height.



2012 TAS CODE REFERENCES:

904.4, 4.1

904.4 Check-Out Aisles and Sales and Service Counters

904.4 Sales and Service Counters. Sales counters and service counters shall comply with 904.4.1 or 904.4.2. The accessible portion of the counter top shall extend the same depth as the sales or service counter top.

EXCEPTION: In alterations, when the provision of a counter complying with 904.4 would result in a reduction of the number of existing counters at work stations or a reduction of the number of existing mail boxes, the counter shall be permitted to have a portion which is 24 inches (610 mm) long minimum complying with 904.4.1 provided that the required clear floor or ground space is centered on the accessible length of the counter.

904.4.1 Parallel Approach. A portion of the counter surface that is 36 inches (915 mm) long minimum and 36 inches (915 mm) high maximum above the finish floor shall be provided. A clear floor or ground space complying with 305 shall be positioned for a parallel approach adjacent to the 36 inch (915 mm) minimum length of counter.

EXCEPTION: Where the provided counter surface is less than 36 inches (915 mm) long, the entire counter surface shall be 36 inches (915 mm) high maximum above the finish floor.

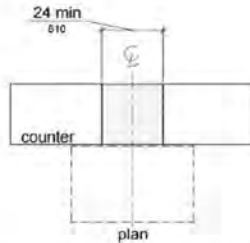


Figure 904.4 (Exception) Alteration of Sales and Service Counters



Comment #9: ADVISORY; Ground Surface

LOCATION: Checkered paver area

FINDING: The large paver and black gravel creates uneven surfaces. The area does not have to be accessible as long as a duplicate item is provided in an accessible area nearby. For example, if there are tables and chairs here, ensure accessible tables and chairs are provided nearby. If the bar is here, there shall be another accessible bar, etc. See Title II information in the last comment.



2012 TAS CODE REFERENCES:

302 Floor or Ground Surfaces

302.1 General. Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with 302.

EXCEPTIONS:

1. Within animal containment areas, floor and ground surfaces shall not be required to be stable, firm, and slip resistant.

2. Areas of sport activity shall not be required to comply with 302.

Advisory 302.1 General. A stable surface is one that remains unchanged by contaminants or applied force, so that when the contaminant or force is removed, the surface returns to its original condition. A firm surface resists deformation by either indentations or particles moving on its surface. A slip-resistant surface provides sufficient frictional counterforce to the forces exerted in walking to permit safe ambulation.

302.3 Openings. Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

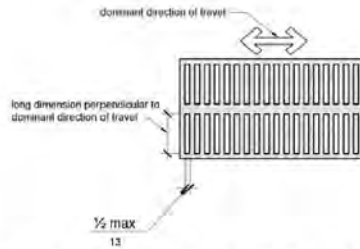


Figure 302.3 Elongated Openings in Floor or Ground Surfaces

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Comment #10: **NON-COMPLIANT**; Paver Accessible Route

LOCATION: Pavers to Crenshaw Room

FINDING: The red brick pavers have a cross slope of up to 3%, whereas 2% is the maximum. There is also a change in level exceeding 1/4" at the entrance. The pavers shall be reconstructed and the change in level reduced to 1/4" or less.



2012 TAS CODE REFERENCES:
403 Walking Surfaces
403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.
303 Changes in Level
303.1 General. Where changes in level are permitted in floor or ground surfaces, they shall comply with 303.
EXCEPTIONS:
1. Animal containment areas shall not be required to comply with 303.
2. Areas of sport activity shall not be required to comply with 303.
303.2 Vertical. Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.
303.3 Beveled. Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.
Advisory 303.3 Beveled. A change in level of 1/2 inch (13 mm) is permitted to be 1/4 inch (6.4 mm) vertical plus 1/4 inch (6.4 mm) beveled. However, in no case may the combined change in level exceed 1/2 inch (13 mm). Changes in level exceeding 1/2 inch (13 mm) must comply with 405 (Ramps) or 406 (Curb Ramps).



Figure 303.2 Vertical Change in Level

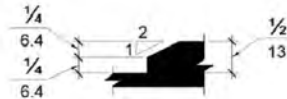


Figure 303.3 Beveled Change in Level



Comment #11: **NON-COMPLIANT**; Concrete Accessible Route

LOCATION: Concrete to the bridge

FINDING: The sloping concrete has a running slope up to 6.3% and shall meet ramp requirements with handrails on both sides and level landings. There is more than a 30" grade drop, therefore shall provide an intermediate landing. Where the change in direction occurs to go to the Crenshaw room, shall be a level landing and not exceed 2%. Currently the slope is 5.5%.



2012 TAS CODE REFERENCES:
405 Ramps
405.1 General. Ramps on accessible routes shall comply with 405.
EXCEPTION: In assembly areas, aisle ramps adjacent to seating and not serving elements required to be on an accessible route shall not be required to comply with 405.
405.2 Slope. Ramp runs shall have a running slope not steeper than 1:12.
EXCEPTION: In existing sites, buildings, and facilities, ramps shall be permitted to have running slopes steeper than 1:12 complying with Table 405.2 where such slopes are necessary due to space limitations.

Table 405.2 Maximum Ramp Slope and Rise for Existing Sites, Buildings, and Facilities	
Slope ¹	Maximum Rise
Steeper than 1:10 but not steeper than 1:8	3 inches (75 mm)
Steeper than 1:12 but not steeper than 1:10	6 inches (150 mm)

1. A slope steeper than 1:8 is prohibited.

Advisory 405.2 Slope. To accommodate the widest range of users, provide ramps with the least possible running slope and, wherever possible, accompany ramps with stairs for use by those individuals for whom distance presents a greater barrier than steps, e.g., people with heart disease or limited stamina.
405.6 Rise. The rise for any ramp run shall be 30 inches (760 mm) maximum.
405.8 Handrails. Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with 505.
EXCEPTION: Within employee work areas, handrails shall not be required where ramps that are part of common use circulation paths are designed to permit the installation of handrails complying with 505. Ramps not subject to the exception to 405.5 shall be designed to maintain a 36 inch (915 mm) minimum clear width when handrails are installed.

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Comment #12: NON-COMPLIANT; DG Accessible Routes

LOCATION: Throughout

FINDING: The decomposed granite routes throughout have inconsistencies in slopes and ground surfaces. Many areas the running or cross slope is excessive. The attached Site Plan has areas noting excessive slopes to regrade. When the routes are regraded, ensure the DG is compacted well with a binding agent.



2012 TAS CODE REFERENCES:

302 Floor or Ground Surfaces

302.1 General. Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with 302.

EXCEPTIONS:

1. Within animal containment areas, floor and ground surfaces shall not be required to be stable, firm, and slip resistant.
2. Areas of sport activity shall not be required to comply with 302.

Advisory 302.1 General. A stable surface is one that remains unchanged by contaminants or applied force, so that when the contaminant or force is removed, the surface returns to its original condition. A firm surface resists deformation by either indentations or particles moving on its surface. A slip-resistant surface provides sufficient frictional counterforce to the forces exerted in walking to permit safe ambulation.



Comment #13: NON-COMPLIANT; Elements on an Accessible Route

LOCATION: Circle paver installation by the waterfall

FINDING: This installation is unique and shall be connected via an accessible route.

LOCATION: Upper trail with view of water only accessed by stairs

FINDING: There is not an accessible route provided to the upper trails. Unless the stairs or upper trail is modified to trigger TAS compliance; an equivalent experience shall be provided to meet ADA. *See Title II information in the last comment.*

By creating an accessible route to the circular paver art installation, this provides an opportunity to create an equivalent experience from the upper non-compliant trails with the waterfalls. The adjacent waterfalls and louder creek noise could be considered a similar experience from the upper trail.

Wayfinding signage shall be provided at the stairs to indicate what is at the top and also where the equivalent accessible experience is provided.



2012 TAS CODE REFERENCES:

206 Accessible Routes

206.2 Where Required.

206.2.2 Within a Site. At least one accessible route shall connect accessible buildings, accessible facilities, accessible elements, and accessible spaces that are on the same site.

EXCEPTION: An accessible route shall not be required between accessible buildings, accessible facilities, accessible elements, and accessible spaces if the only means of access between them is a vehicular way not providing pedestrian access.

Advisory 206.2.2 Within a Site. An accessible route is required to connect to the boundary of each area of sport activity. Examples of areas of sport activity include: soccer fields, basketball courts, baseball fields, running tracks, skating rinks, and the area surrounding a piece of gymnastic equipment. While the size of an area of sport activity may vary from sport to sport, each includes only the space needed to play. Where multiple sports fields or courts are provided, an accessible route is required to each field or area of sport activity.

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Comment #14: **NON-COMPLIANT**; Accessible Route to Umlauf House

LOCATION: From the Gardens to the Umlauf House

FINDING: Currently the only pedestrian path from the gardens is via small stone steps. If a garden accessible route is not achievable, accessible parking shall be provided at the residence for guests to use as the vehicular exception.



2012 TAS CODE REFERENCES:

206 Accessible Routes

206.2 Where Required.

206.2.1 Site Arrival Points. At least one accessible route shall be provided within the site from accessible parking spaces and accessible passenger loading zones; public streets and sidewalks; and public transportation stops to the accessible building or facility entrance they serve.

EXCEPTIONS:

1. Where exceptions for alterations to qualified historic buildings or facilities are permitted by 202.5, no more than one accessible route from a site arrival point to an accessible entrance shall be required.

2. An accessible route shall not be required between site arrival points and the building or facility entrance if the only means of access between them is a vehicular way not providing pedestrian access.

Advisory 206.2.1 Site Arrival Points. Each site arrival point must be connected by an accessible route to the accessible building entrance or entrances served. Where two or more similar site arrival points, such as bus stops, serve the same accessible entrance or entrances, both bus stops must be on accessible routes. In addition, the accessible routes must serve all of the accessible entrances on the site.

Advisory 206.2.1 Site Arrival Points Exception 2. Access from site arrival points may include vehicular ways. Where a vehicular way, or a portion of a vehicular way, is provided for pedestrian travel, such as within a shopping center or shopping mall parking lot, this exception does not apply.



Comment #15: **NON-COMPLIANT**; Umlauf House Exterior

LOCATION: Terraces

FINDING: There are several different levels of outdoor spaces. If each terrace provides a unique experience, each shall be on an accessible route. Depending on what is deemed historic in nature will depict programming in regard to accessibility.



LOCATION: Studio

FINDING: The studio shall be connected via an accessible route. The double doors is the best option with minimal grade changes.



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LOCATION: Sculpture Park
FINDING: The paths to the sculpture park are generally accessible. When a compliant ground surface is provided, the path shall be regraded to meet compliance.



LOCATION: Parking
FINDING: Ensure if parking is provided, there be at minimum one van accessible parking space with an accessible route to the elements and front door entry.



2012 TAS CODE REFERENCES:
206 Accessible Routes
206.2 Where Required.

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206.2.2 Within a Site. At least one accessible route shall connect accessible buildings, accessible facilities, accessible elements, and accessible spaces that are on the same site.
EXCEPTION: An accessible route shall not be required between accessible buildings, accessible facilities, accessible elements, and accessible spaces if the only means of access between them is a vehicular way not providing pedestrian access.
Advisory 206.2.2 Within a Site. An accessible route is required to connect to the boundary of each area of sport activity. Examples of areas of sport activity include: soccer fields, basketball courts, baseball fields, running tracks, skating rinks, and the area surrounding a piece of gymnastic equipment. While the size of an area of sport activity may vary from sport to sport, each includes only the space needed to play. Where multiple sports fields or courts are provided, an accessible route is required to each field or area of sport activity.
403 Walking Surfaces
403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

208 Parking Spaces
208.1 General. Where parking spaces are provided, parking spaces shall be provided in accordance with 208.
EXCEPTION: Parking spaces used exclusively for buses, trucks, other delivery vehicles, law enforcement vehicles, or vehicular impound shall not be required to comply with 208 provided that lots accessed by the public are provided with a passenger loading zone complying with 503.

Comment #16: NON-COMPLIANT; Umlauf House Interior

LOCATION: Main Floor
FINDING: Generally, the main floor areas that will be of interest will be accessible for a tour route. The main entry door and throughout the living areas is wide enough to accommodate a 36" accessible route.
Areas of nonconformance to consider if important to be on an accessible route for a Tour or for Employee Use:
Front door hardware.
The current middle office does not provide 18" door maneuvering clearance and 32" door width.
The pink bathroom has no compliant fixtures.
The basement shall provide an accessible route. A route from the exterior is an option. If the exterior is deemed Historic to create an accessible entry point, the experience may be recreated from the upper floor with photos, etc. *See Title II information in the last comment.*
The basement bathroom door and fixtures are not compliant.



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2012 TAS CODE REFERENCES:

404 Doors, Doorways, and Gates

404.2 Manual Doors, Doorways, and Manual Gates.

404.2.3 Clear Width. Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the clear opening width lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).

EXCEPTIONS:

1. In alterations, a projection of 5/8 inch (16 mm) maximum into the required clear width shall be permitted for the latch side stop.
2. Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

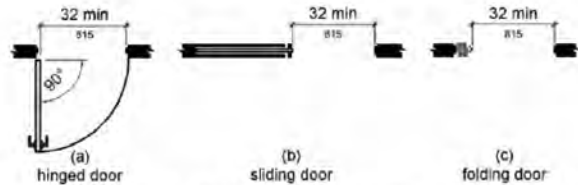


Figure 404.2.3 Clear Width of Doorways

404.2.4 Maneuvering Clearances.

404.2.4.1 Swinging Doors and Gates. Swinging doors and gates shall have maneuvering clearances complying with Table 404.2.4.1.

Table 404.2.4.1 Maneuvering Clearances at Manual Swinging Doors and Gates

Table 404.2.4.1 Maneuvering Clearances at Manual Swinging Doors and Gates Type of Use		Minimum Maneuvering Clearance	
Approach Direction	Door or Gate Side	Perpendicular to Doorway	Parallel to Doorway (beyond latch side unless noted)
From front	Pull	60 inches (1525 mm)	18 inches (455 mm)
From front	Push	48 inches (1220 mm)	0 inches (0 mm) ¹
From hinge side	Pull	60 inches (1525 mm)	36 inches (915 mm)

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From hinge side	Pull	54 inches (1370 mm)	42 inches (1065 mm)
From hinge side	Push	42 inches (1065 mm) ²	22 inches (560 mm) ³
From latch side	Pull	48 inches (1220 mm) ⁴	24 inches (610 mm)
From latch side	Push	42 inches (1065 mm) ⁴	24 inches (610 mm)

1. Add 12 inches (305 mm) if closer and latch are provided.
2. Add 6 inches (150 mm) if closer and latch are provided.
3. Beyond hinge side.
4. Add 6 inches (150 mm) if closer is provided.

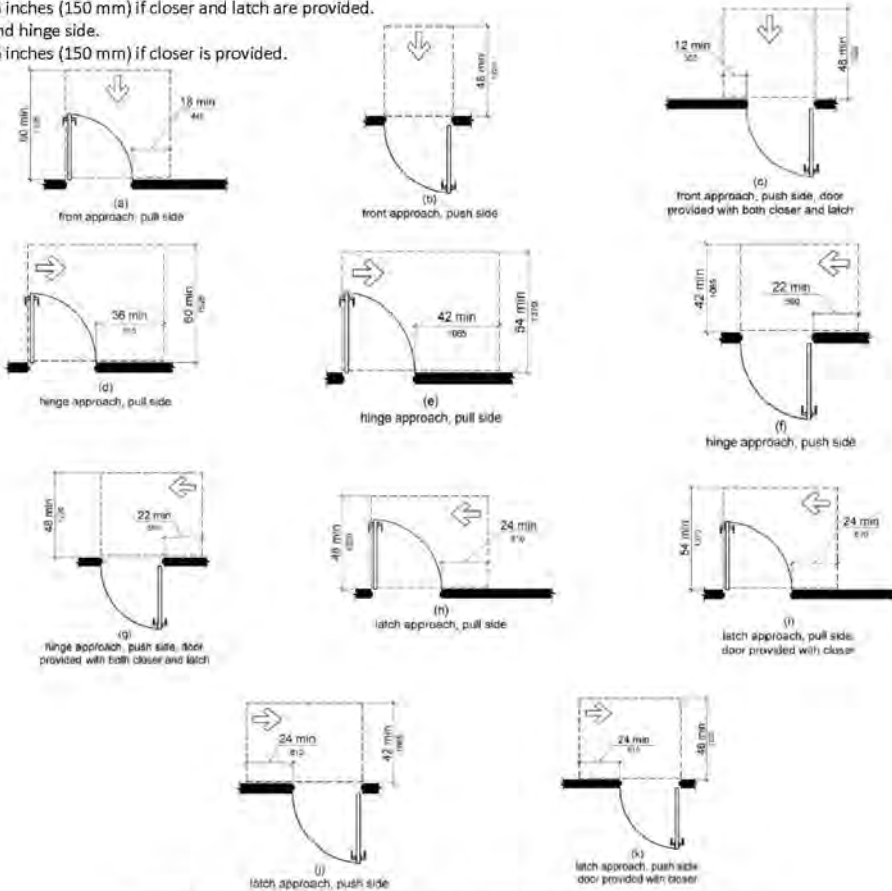


Figure 404.2.4.1 - Maneuvering Clearances at Manual Swinging Doors and Gates

404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

EXCEPTIONS:

1. Existing locks shall be permitted in any location at existing glazed doors without stiles, existing overhead rolling doors or grilles, and similar existing doors or grilles that are designed with locks that are activated only at the top or bottom rail.

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2. Access gates in barrier walls and fences protecting pools, spas, and hot tubs shall be permitted to have operable parts of the release of latch on self-latching devices at 54 inches (1370 mm) maximum above the finish floor or ground provided the self-latching devices are not also self-locking devices and operated by means of a key, electronic opener, or integral combination lock. **Advisory 404.2.7 Door and Gate Hardware.** Door hardware that can be operated with a closed fist or a loose grip accommodates the greatest range of users. Hardware that requires simultaneous hand and finger movements require greater dexterity and coordination, and is not recommended.

Comment #17: ADA Title II Compliance

ADA is a civil rights law and applies at all times. The City Transition Plan outlines how to achieve compliance.

ADA Title II General Requirement:

Title II of the ADA requires state/local governments to give people with disabilities an equal opportunity to benefit from all of their programs, services, and activities. State/local governments can't deny people with disabilities the chance to participate or make them participate in different programs than available to others.

Specific Requirements:

The ADA also includes specific requirements for state/local governments. For example, if you are part of a state/local government you must:

- Communicate with people with disabilities as effectively as you communicate with others.
- Make reasonable modifications to policies, practices, and procedures where needed to make sure that a person with a disability can access the state/local government's programs, services, or activities.
- Allow service animals to be with their person even if you have a no pets policy.
- Provide *program access* by ensuring that individuals with disabilities are not excluded from programs because existing buildings or facilities are inaccessible to them.
- Follow specific standards for physical accessibility when building or altering a building or facility.
- Follow specific requirements for ticket sales and testing accommodations.

Access to Programs & Services in Existing Facilities:

State/local governments are required to provide *program access*. The program access requirement ensures that individuals with disabilities are not excluded from any program or service because existing buildings and facilities are inaccessible. State/local governments must look at their programs/services in their entirety or as a whole to ensure that they are accessible to individuals with disabilities.

Cited from: <https://www.ada.gov/topics/title-ii/>

End of Report

Environmental Resource Inventory

Case No.:
(City use only)

Environmental Resource Inventory
For the City of Austin
Related to LDC 25-8-121, City Code 30-5-121, ECM 1.3.0 & 1.10.0

The ERI is required for projects that meet one or more of the criteria listed in LDC 25-8-121(A), City Code 30-5-121(A).

1. SITE/PROJECT NAME: Umlauf Barton Springs Tract

2. COUNTY APPRAISAL DISTRICT PROPERTY ID (#'s): 103850 and 103851

3. ADDRESS/LOCATION OF PROJECT: 605 Azie Morton Road, Austin, Travis County, TX

4. WATERSHED: Lady Bird Lake

5. THIS SITE IS WITHIN THE (Check all that apply)

Edwards Aquifer Recharge Zone* (See note below) ☐ YES ☒ No

Edwards Aquifer Contributing Zone* ☐ YES ☒ No

Edwards Aquifer 1500 ft Verification Zone* ☒ YES ☐ No

Barton Spring Zone* ☐ YES ☒ No

*(as defined by the City of Austin – LDC 25-8-2 or City Code 30-5-2)

Note: If the property is over the Edwards Aquifer Recharge zone, the Hydrogeologic Report and karst surveys must be completed and signed by a Professional Geoscientist Licensed in the State of Texas.

6. DOES THIS PROJECT PROPOSE FLOODPLAIN MODIFICATION?.....☐ YES** ☒ NO

If yes, then check all that apply:

☐ (1) The floodplain modifications proposed are necessary to protect the public health and safety;

☐ (2) The floodplain modifications proposed would provide a significant, demonstrable environmental benefit, as determined by a **functional assessment** of floodplain health as prescribed by the Environmental Criteria Manual (ECM), or

☐ (3) The floodplain modifications proposed are necessary for development allowed in the critical water **quality zone under LDC 25-8-261 or 25-8-262, City Code 30-5-261 or 30-5-262.**

☐ (4) The floodplain modifications proposed are outside of the Critical Water Quality Zone in an area determined to be in poor or fair condition by a **functional assessment** of floodplain health.

** If yes, then a functional assessment must be completed and attached to the ERI (see ECM 1.7 and Appendix X for forms and guidance) unless conditions 1 or 3 above apply.

7. IF THE SITE IS WITHIN AN URBAN OR SUBURBAN WATERSHED, DOES THIS PROJECT PROPOSE A UTILITY LINE PARALLEL TO AND WITHIN THE CRITICAL WATER QUALITY ZONE? ☐ YES*** ☒ NO

***If yes, then riparian restoration is required by LDC 25-8-261(E) or City Code 30-5-261(E) and a functional assessment must be completed and attached to the ERI (see ECM1.5 and Appendix X for forms and guidance).

8. There is a total of 0 (#'s) Critical Environmental Feature(s)(CEFs) on or within150 feet of the project site. If CEF(s) are present, attach a detailed **DESCRIPTION** of the CEF(s), color **PHOTOGRAPHS**, the CEF **WORKSHEET** and provide **DESCRIPTIONS** of the proposed CEF buffer(s) and/or wetland mitigation. Provide the number of each type of CEFs on or within 150 feet of the site (Please provide the number of CEFs);

0 (#'s) Spring(s)/Seep(s) 0 (#'s) Point Recharge Feature(s) 0 (#'s) Bluff(s)

0 (#'s) Canyon Rimrock(s) 0 (#'s) Wetland(s)

Note: Standard buffers for CEFs are 150 feet, with a maximum of 300 feet for point recharge features. Except for wetlands, if the standard buffer is not provided, you must provide a written request for an administrative variance from LDC 25-8-281(C)(1) and provide written findings of fact to support your request. Request forms for administrative variances from requirements stated in LDC 25-8-281 are available from Watershed Protection Department.

9. The following site maps are attached at the end of this report (Check all that apply and provide):

All ERI reports must include:

☒ Site Specific Geologic Map with 2-ft Topography

☒ Historic Aerial Photo of the Site

☒ Site Soil Map

☒ Critical Environmental Features and Well Location Map on current Aerial Photo with 2-ft Topography

Only if present on site (Maps can be combined):

☒ Edwards Aquifer Recharge Zone with the 1500-ft Verification Zone
(Only if site is over or within 1500 feet the recharge zone)

☐ Edwards Aquifer Contributing Zone

☐ Water Quality Transition Zone (WQTZ)

☐ Critical Water Quality Zone (CWQZ)

☐ City of Austin Fully Developed Floodplains for all water courses with up to 64-acres of drainage

10. HYDROGEOLOGIC REPORT – Provide a description of site soils, topography, and site specific geology below (Attach additional sheets if needed)

Surface Soils on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups*. If there is more than one soil unit on the project site, show each soil unit on the site soils map.

Soil Series Unit Names, Infiltration Characteristics & Thickness			*Soil Hydrologic Groups Definitions (Abbreviated)
Soil Series Unit Name & Subgroup**	Group*	Thickness (feet)	
Bergstrom soils & Urban land, 0-2% slopes, rare flooded (Bh)	B	6.7	A. Soils having a <u>high infiltration</u> rate when thoroughly wetted. B. Soils having a <u>moderate infiltration</u> rate when thoroughly wetted. C. Soils having a <u>slow infiltration</u> rate when thoroughly wetted. D. Soils having a <u>very slow infiltration</u> rate when thoroughly wetted. **Subgroup Classification – See <u>Classification of Soil Series</u> Table in County Soil Survey.
Eddy soils & Urban land, 0-6% slopes (EuC)	D	1.2	
Eckrant soils & Urban land, 18-40% slopes (TeF)	D	0.7	
Urban land, 0-6% slopes (Ur)	D	3.3	
Austin-Urban land complex, 2-5% slopes (UsC)	D	2.4	

Environmental Resource Inventory

Description of Site Topography and Drainage *(Attach additional sheets if needed):*

Topography on the subject site is flat to slightly sloping. Surface elevations range from approximately 458 to 536 feet above mean sea level (COA, 2019 and USGS, 1988), with surface water flowing generally from east to west towards Barton Creek.

List surface geologic units below:

Geologic Units Exposed at Surface		
Group	Formation	Member
—	Fluvatile terrace deposits (Qt)	—

Brief description of site geology *(Attach additional sheets if needed):*

Fluviatile terrace deposits (Qt) - Terraces along streams, Qt, consist of three or more levels which may correspond to coastal Pleistocene units; gravel, sand, silt, and clay in various proportions with gravel more prominent in the older, higher terraces; gravel along Guadalupe River, siliceous, coarse, along Colorado River, mostly dolomite, limestone, chert, quartz, and various igneous and metamorphic rocks from the Llano region and dolomite, limestone, and chert from the Edwards Plateau; sand mostly quartz (UT-BEG, 1995).

Wells – Identify all recorded and unrecorded wells on site (test holes, monitoring, water, oil, unplugged, capped and/or abandoned wells, etc.):

- There are 0 (#) wells present on the project site and the locations are shown and labeled
- 0 (#s)The wells are not in use and have been properly abandoned.
- 0 (#s)The wells are not in use and will be properly abandoned.
- 0 (#s)The wells are in use and comply with 16 TAC Chapter 76.
- There are 0 (#s) wells that are off-site and within 150 feet of this site.

11. THE VEGETATION REPORT – Provide the information requested below:

Brief description of site plant communities *(Attach additional sheets if needed):*

The subject site is located within the Blackland Prairie ecological area of Texas (Gould, 1975) and the Urban vegetational area of Texas (McMahan et al., 1984). Woodland and grassland species were observed on the subject site. The subject site is dominated by commercial land use, therefore, the vegetation community on the subject site is sparse.

There is woodland community on site☒YES ☐NO *(Check one).*

If yes, list the dominant species below:

Woodland species	
Common Name	Scientific Name
Red oak	Quercus falcata
Cedar elm	Ulmus crassifolia
Texas live oak	Quercus fusiformis
Ashe juniper	Juniperus ashei
Texas persimmon	Diospyros texana

There is grassland/prairie/savanna on site.....☒YES ☐NO *(Check one).*

If yes, list the dominant species below:

Grassland/prairie/savanna species	
Common Name	Scientific Name
Bermudagrass	Cynodon dactylon
Giant ragweed	Ambrosia trifida
Greenbrier	Smilax bona-nox

There is hydrophytic vegetation on site☒YES ☐NO *(Check one).*

If yes, list the dominant species in table below *(next page)*.

Environmental Resource Inventory

Hydrophytic plant species		
Common Name	Scientific Name	Wetland Indicator Status
Elephant ear	Colocasia esculenta	Obl
White waterlily	Nymphaea odorata	Obl
Pickersweed	Pontederia cordata	Obl
Sedge	Cyperus sp.	FacW
Dwarf palmetto	Sabal minor	FacW

A tree survey of all trees with a diameter of at least eight inches measured four and one-half feet above natural grade level has been completed on the site.
☒ YES ☐ NO (Check one)

12. WASTEWATER REPORT – Provide the information requested below.

Wastewater for the site will be treated by (Check of that Apply):

- ☐ On-site system(s)
- ☒ City of Austin Centralized sewage collection system
- ☐ Other Centralized collection system

Note: All sites that receive water or wastewater service from the Austin Water Utility must comply with City Code Chapter 15-12 and wells must be registered with the City of Austin

The site sewage collection system is designed and will be constructed to in accordance to all State, County and City standard specifications.
☒ YES ☐ NO (Check one)

Calculations of the size of the drainfield or wastewater irrigation area(s) are attached at the end of this report or shown on the site plan.
☐ YES ☐ NO ☒ Not Applicable (Check one)

Wastewater lines are proposed within the Critical Water Quality Zone?
☐ YES ☒ NO (Check one). If yes, then provide justification below:

Is the project site is over the Edwards Aquifer?
☐ YES ☒ NO (Check one)

If yes, then describe the wastewater disposal systems proposed for the site, its treatment level and effects on receiving watercourses or the Edwards Aquifer.

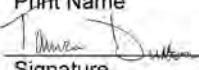
13. One (1) hard copy and one (1) electronic copy of the completed assessment have been provided.

Date(s) ERI Field Assessment was performed: 8 January 2024
Date(s)

My signature certifies that to the best of my knowledge, the responses on this form accurately reflect all information requested.

Tamura Dunbar

Print Name



Signature

Horizon Environmental Services

Name of Company

512-328-2430

Telephone

tdunbar@horizon-esi.com

Email Address

17 January 2024

Date

For project sites within the Edwards Aquifer Recharge Zone, my signature and seal also certifies that I am a licensed Professional Geoscientist in the State of Texas as defined by ECM 1.12.3(A).

UMLAUF HPEU PLAN




ENVIRONMENTAL RESOURCE INVENTORY ATTACHMENTS

UMLAUF BARTON SPRINGS TRACT
605 AZIE MORTON ROAD, AUSTIN, TRAVIS COUNTY, TEXAS
HJN 23334.001 ERI

1	Project Name:	Umlauf Barton Springs Tract	5	Primary Contact Name:	Tamara Dunbar
2	Project Address:	605 Azle Morton Rd, Austin, Travis County, TX	6	Phone Number:	512-328-2430
3	Site Visit Date:	8 January 2024	7	Prepared By:	Tamara Dunbar
4	Environmental Resource Inventory Date:	17 January 2024	8	Email Address:	tdunbar@horizon-esi.com

[illegible]

City of Austin Use Only	
CASE NUMBER:	

<p>For rimrock, locate the midpoint of the segment that describes the feature.</p>	<p>For wetlands, locate the approximate centroid of the feature and the estimated area.</p>	<p>For a spring or seep, locate the source of groundwater that feeds a pool or stream.</p>
		

Please state the method of coordinate data collection and the approximate precision and accuracy of the points and the unit of measurement.

<u>Method</u>		<u>Accuracy</u>	
GPS	<input type="checkbox"/>	sub-meter	<input type="checkbox"/>
Surveyed	<input type="checkbox"/>	meter	<input type="checkbox"/>
Other	<input type="checkbox"/>	> 1 meter	<input type="checkbox"/>

Professional Geologists apply seal below

Environmental Resource Inventory



DATA RESOURCES USED IN COMPLETING THIS ERI

(COA) City of Austin. Geographic Information Systems / Maps. *2017 2-foot Contours*, <<http://austintexas.gov/departments/gis-and-maps/gis-data>>. Updated 15 August 2019.

_____. *Property Profile*. City of Austin Property Profile web map application, <<http://www.austintexas.gov/gis/propertyprofile/>>. Accessed 19 December 2023.

Gould, F.W. *Texas Plants – A Checklist and Ecological Summary*. College Station: Texas A&M University. 1975.

McMahan, Craig A., Roy G. Frye, and Kirby L. Brown. *The Vegetation Types of Texas – Including Cropland*. Austin: Texas Parks and Wildlife Department. 1984.

(Nearmap) Nearmap US, Inc. Nearmap Vertical™ digital orthographic photograph, <<https://go.nearmap.com>>. Imagery date 8 October 2023.

(NRCS) Natural Resources Conservation Service (formerly Soil Conservation Service), US Department of Agriculture. Web Soil Survey, <<https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>>. Soil map data layer updated 12 September 2019. Accessed 19 December 2023.

(TWDB) Texas Water Development Board. Water Information Integration and Dissemination System. TWDB Groundwater Database, <<https://www2.twdb.texas.gov/apps/waterdatainteractive/groundwaterdataviewer>>. Accessed 19 December 2023.

(TWSC) United States Geological Survey, Texas Water Science Center. Geologic Database of Texas, <<https://txpub.usgs.gov/txgeology/>>. Updated 1 February 2014; Accessed 19 December 2023.

(USGS) US Geological Survey. 7.5-minute series topographic maps, Austin West, Texas, quadrangle. 1988.

_____. Aerial Photography, Travis County, Texas. 1995.

(UT-BEG) University of Texas Bureau of Economic Geology, C.V. Proctor, Jr., T.E. Brown, J.H. McGowen, N.B. Waechter, and V.E. Barnes. *Geologic Atlas of Texas*, Austin Sheet, Francis Luther Whitney Memorial Edition. 1974; reprinted 1995.

ERI WORKSHEET SECTION 8:
CRITICAL ENVIRONMENTAL FEATURES

CEF Descriptions
Color Photographs

Environmental Resource Inventory



Critical Environmental Features

CEFs observed on or within 150 feet from the subject site include:

Critical Environmental Feature	Number Observed on Subject Site	Number Observed Within 150 Feet of Subject Site
Springs/Seeps	0	0
Point Recharge Features	0	0
Bluffs	0	0
Canyon Rimrocks	0	0
Wetlands	0	0

Two man-made ornamental ponds (P-1 and P-2) and a man-made ornamental channel (T-1) were located within the subject site. Hydrophilic vegetation was observed within both ponds and along the channel, including elephant ear (*Colocasia esculenta*), white waterlily (*Nymphaea odorata*), pickerelweed (*Pontederia cordata*), dwarf palmetto (*Sabal minor*), and sedge (*Cyperus* sp.). However, the ponds and channel were man-made and water levels were controlled by water pumps. Therefore, the ponds and channel were not considered to be critical environmental features (CEFs).

Environmental Criteria Manual Section 1.10.3 – E. states that pods fed by artificial sources of hydrology are not considered wetlands.



PHOTO 1
A man-made ornamental pond (P-1) was located on the western portion of the subject site



PHOTO 3
A man-made ornamental pond (P-1) was located on the western portion of the subject site



PHOTO 2
A man-made ornamental pond (P-1) was located on the western portion of the subject site



PHOTO 4
A man-made ornamental pond (P-2) was located on the central portion of the subject site

Environmental Resource Inventory



PHOTO 5
A man-made ornamental pond (P-2) was located on the central portion of the subject site



PHOTO 6
A man-made ornamental pond (P-2) was located on the central portion of the subject site



PHOTO 7
A man-made ornamental channel (T-1) was located across the subject site

23334-001ERI Photographs



PHOTO 8
A man-made ornamental channel (T-1) was located across the subject site



PHOTO 9
A man-made ornamental channel (T-1) was located across the subject site



PHOTO 10
A man-made ornamental channel (T-1) was located across the subject site



PHOTO 11
General view of the northern portion of the subject site

23334-001ERI Photographs

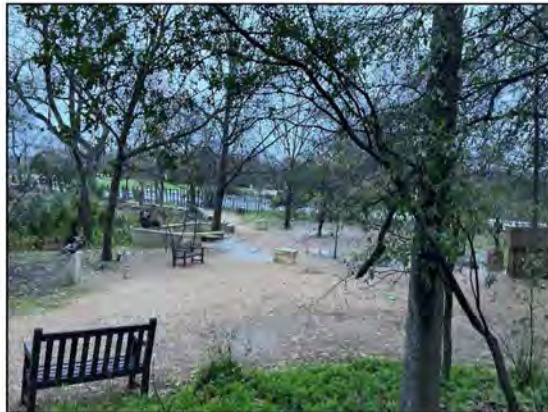


PHOTO 12
General view of the northern portion of the subject site

Environmental Resource Inventory



PHOTO 13
General view of the northern portion of the subject site



PHOTO 14
General view of the northern portion of the subject site



PHOTO 17
General view of the central portion of the subject site



PHOTO 18
General view of the central portion of the subject site



PHOTO 15
General view of the central portion of the subject site



PHOTO 16
General view of the central portion of the subject site



PHOTO 19
General view of the southern portion of the subject site



PHOTO 20
General view of the southern portion of the subject site



23334-001ERI Photographs

23334-001ERI Photographs

Environmental Resource Inventory



PHOTO 21
General view of the southern portion of the subject site



PHOTO 22
General view of the southern portion of the subject site



PHOTO 23
General view of the southern portion of the subject site

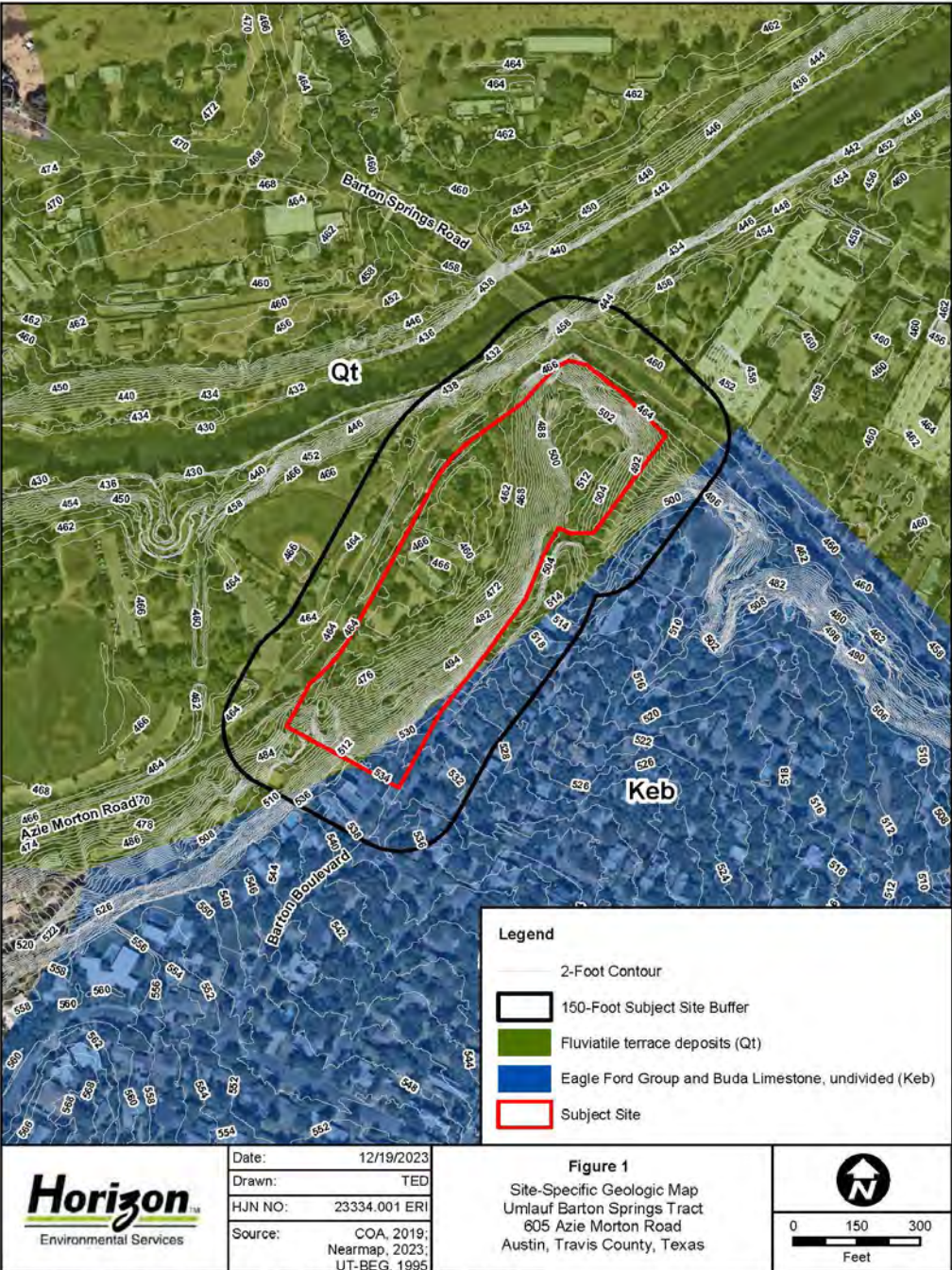


PHOTO 24
General view of the southern portion of the subject site

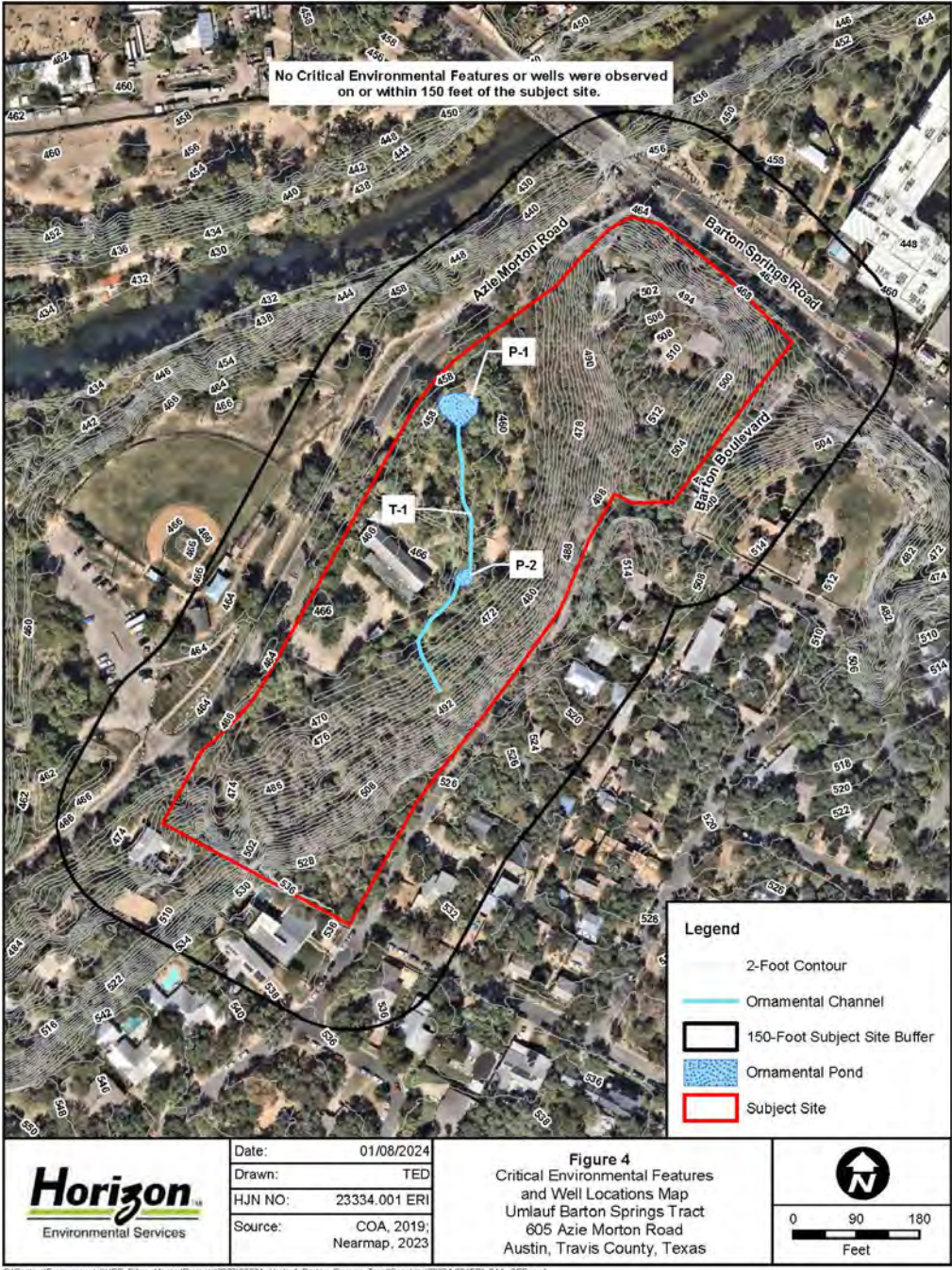
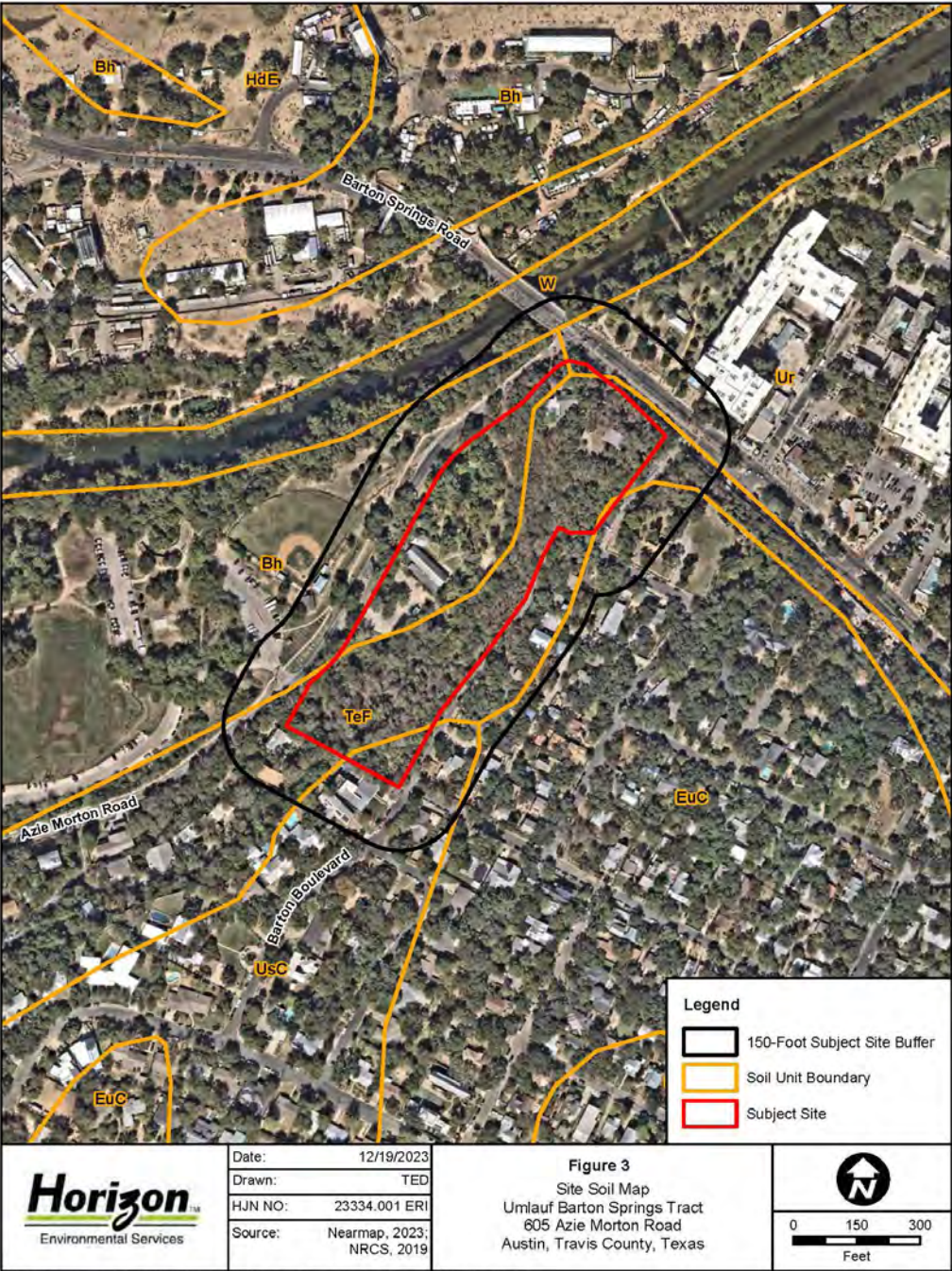
ERI WORKSHEET SECTION 9: SITE MAPS

- Figure 1. Site-Specific Geologic Map
- Figure 2. Historical Aerial Photograph
- Figure 3. Site Soil Map
- Figure 4. Critical Environmental Features and Well Locations Map
- Figure 5. Edwards Aquifer Map

Environmental Resource Inventory



Environmental Resource Inventory



Environmental Resource Inventory



ERI WORKSHEET SECTION 10:
HYDROGEOLOGIC REPORT ADDITIONAL DATA



23334-001 COA ERI Worksheet Attachments

Environmental Resource Inventory



Surface geologic units, continued from ERI worksheet, Section 10:

Geologic Units Exposed at Surface		
Group	Formation	Member
--	Eagle Ford Group and Buda Limestone, undivided (Keb)	--

Brief description of site geology, continued from ERI worksheet, Section 10:

Eagle Ford Group and Buda Limestone, undivided (Keb) - Eagle Ford Group, Kef, shale and limestone. Upper part shale, compact, silty, contains fossil fish teeth and bones, 10 feet or more thick; middle part silty limestone grading to calcareous siltstone, flaggy, medium gray, weathers pale yellowish brown, 5 feet thick. Lower part shale, calcareous, dark gray, 7–50 feet thick. Thickness of Eagle Ford Group 25–65 feet. Buda Limestone, Klin, fine grained, bioclastic, commonly glauconitic, pyritiferous, hard, massive, poorly bedded to nodular, thinner bedded and argillaceous near upper contact, light gray to pale orange; weathers dark gray to brown; burrows filled with chalky marl, abundant pelecypods; thickness up to 45 feet, locally absent to north (UT-BEG, 1995).

APPENDIX:
EDWARDS AQUIFER VERIFICATION ZONE ASSESSMENT

Environmental Resource Inventory



Surface geologic units, continued from ERI worksheet, Section 10:

Geologic Units Exposed at Surface		
Group	Formation	Member
--	Eagle Ford Group and Buda Limestone, undivided (Keb)	--

Brief description of site geology, continued from ERI worksheet, Section 10:

Eagle Ford Group and Buda Limestone, undivided (Keb) - Eagle Ford Group, Kef, shale and limestone. Upper part shale, compact, silty, contains fossil fish teeth and bones, 10 feet or more thick; middle part silty limestone grading to calcareous siltstone, flaggy, medium gray, weathers pale yellowish brown, 5 feet thick. Lower part shale, calcareous, dark gray, 7–50 feet thick. Thickness of Eagle Ford Group 25–65 feet. Buda Limestone, Klin, fine grained, bioclastic, commonly glauconitic, pyritiferous, hard, massive, poorly bedded to nodular, thinner bedded and argillaceous near upper contact, light gray to pale orange; weathers dark gray to brown; burrows filled with chalky marl, abundant pelecypods; thickness up to 45 feet, locally absent to north (UT-BEG, 1995).

APPENDIX:
EDWARDS AQUIFER VERIFICATION ZONE ASSESSMENT

Environmental Resource Inventory



8 January 2024

Umlauf Sculpture Garden + Museum
Attn: Amanda Valbracht
605 Azie Morton Road
Austin, Texas 78704

RE: Edwards Aquifer Verification Zone Assessment
Umlauf Barton Springs Tract
605 Azie Morton Road
Austin, Travis County, Texas
HJN 23334.001ERI

Dear Ms. Valbracht:

In December 2023, Horizon Environmental Services (Horizon) performed a City of Austin (COA) Environmental Resource Inventory (ERI) per Land Development Code (LDC) Section 25-8, Title 30-5 for the above-referenced property. Based on the results of the ERI, no critical environmental features (CEF) were identified on the subject site. However, because the site is located within 1500 feet of the Edwards Aquifer Recharge Zone (i.e., COA Verification Zone), the COA requires that a Professional Geoscientist (PG) verify the contact boundary between the Edwards Aquifer Recharge Zone and the Edwards Aquifer Contributing Zone on the subject site based on exposed rock outcrops and available geologic literature.

The subject site consists primarily of developed land with woodlands along the southern and eastern portions of the site near a residential area with gently to moderately sloping terrain from southeast to northwest. Very little impervious cover was observed within the site. Site drainage is by overland surface flow from east to west towards an unnamed tributary of Lady Bird Lake and Barton Creek.

A review of existing literature shows the subject site is underlain by Fluvialite Terrace Deposits (Qt) and the Eagle Ford Group and Buda Limestone, undivided (Keb) (UT-BEG, 1995). In addition, no mapped faults are located within the subject site. The nearest mapped fault is located less than 0.25 miles southwest of the site, trending from southwest to northeast.

Fluvialite Terrace Deposits (Qt) are described as consisting of three or more levels which may correspond to coastal Pleistocene units, comprising gravel, sand, silt, and clay in various proportions with gravel more prominent in the older, higher terraces. Along the Colorado River the deposits are mostly dolomite, limestone, chert, quartz, and various igneous and metamorphic rocks from the Llano region and dolomite, limestone, and chert from the Edwards Plateau; sand is mostly quartz (UT-BEG, 1995).

23334-001ERI Contact Verification Letter

1507 S Interstate 35 • Austin, Texas 78741-2502 • 512.328.2430 • www.horizon-esi.com
A Branch of LJA Environmental Services, LLC • TBPG Firm No. 50679



Amanda Valbracht
23318.001ERI COA Verification Letter
8 January 2024
Page 2

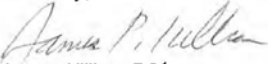
The Eagle Ford Group is described as brown, flaggy, sandy shale and argillaceous limestone identified in the field as thin flagstone with a petroliferous odor. Strata weather easily and form flat to gently rolling topography. Primary porosity has been lost, rendering very low permeability rates in the Eagle Ford Group. It is known as lignite by local drillers. No cavern development or fossils are evident in this group. Thickness ranges from 30 to 150 feet (Blome et al., 2005).

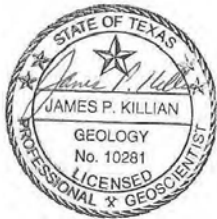
Buda Limestone is described as variably nodular, buff, light-gray, dense mudstone. It is identified in the field as nodular, porcelaneous limestone with calcite-filled veins and no common fossils. Limestone beds in the upper part of the formation are generally hard and dense and may exhibit conchoidal fracturing and a porcelaneous texture when broken. Limestone beds in the lower part of the formation tend to be chalky. It is regionally considered a confining unit. The unit has minor surface karst with low porosity and permeability. Thickness ranges from 40 to 90 feet (Blome et al., 2005).

During the site visit, exposed bedrock observed within the southeastern portion of the subject site was composed of beds of nodular, pale grey-weathered to yellowish-orange, dense limestone, with conchoidal fracture upon breaking open with a rock hammer, which evidently correlate with the Buda Limestone (Kbu). The northwestern portion of the subject site was composed of recent gravel, sand, silt, and clay deposits which correlate with fluvialite terrace deposits (Qt). Photographs of the differing geologic areas are attached.

Based on the results of the Verification Zone assessment, it is Horizon's opinion that, consistent with currently available published geologic mapping, the subject site is underlain by the Buda Limestone (Kbu) and recent Fluvialite Terrace Deposits (Qt) and therefore should not be included within the Recharge Zone of the Edwards Aquifer. If you have any further questions regarding this investigation or our recommendations, please contact me or Horizon's Ecological Program Manager, Mr. Scott Flesher.

Sincerely,


James Killian, PG¹
Senior Geologist – Horizon



¹ Registered Professional Geoscientist, State of Texas

23334-001ERI Contact Verification Letter

Environmental Resource Inventory



Amanda Valbracht
23318.001ERI COA Verification Letter
8 January 2024
Page 3

REFERENCES

(Blome et al.) Blome, Charles D., Jason R. Faith, Diana E. Pedraza, George B. Ozuna, James C. Cole, Allan K. Clark, Ted A. Small, and Robert R. Morris. *Geologic Map of the Edwards Aquifer Recharge Zone, South-Central Texas*. US Geological Survey Scientific Investigations Map 2873, Version 1.1. 2005.

(COA) City of Austin. Geographic Information Systems/Maps. *2017 2-foot Contours*, <<http://austintexas.gov/department/gis-and-maps/gis-data>>. Updated 1 May 2019.

_____. *Property Profile*. City of Austin Property Profile web map application, <<http://www.austintexas.gov/gis/propertyprofile/>>. Accessed 15 February 2023.

Small, T.A., and A.K. Clark. *Geologic Framework and Hydrogeologic Characteristics of the Edwards Aquifer Outcrop, Medina County, Texas*. U.S. Geological Survey Water-Resources Investigation Report 00-4195. 2000.

Stein, W.G., and G.B. Ozuna. *Geologic Framework and Hydrogeologic Characteristics of the Edwards Aquifer Recharge Zone, Bexar County, Texas*. U.S. Geological Survey Water-Resources Investigation Report 95-4030. 1995.

(UT-BEG) University of Texas Bureau of Economic Geology, C.V. Proctor, Jr., T.E. Brown, J.H. McGowen, N.B. Waechter, and V.E. Barnes. *Geologic Atlas of Texas*, Austin Sheet, Francis Luther Whitney Memorial Edition. 1974; reprinted 1995.

Environmental Resource Inventory



PHOTO 1
Buda Limestone (Kbu) at location 1



PHOTO 3
Buda Limestone (Kbu) at location 3

23334-001ERI Contact Verification Photographs



PHOTO 2
Buda Limestone (Kbu) at location 2



PHOTO 4
Fluviatile Terrace Deposits (Qt) at location 4



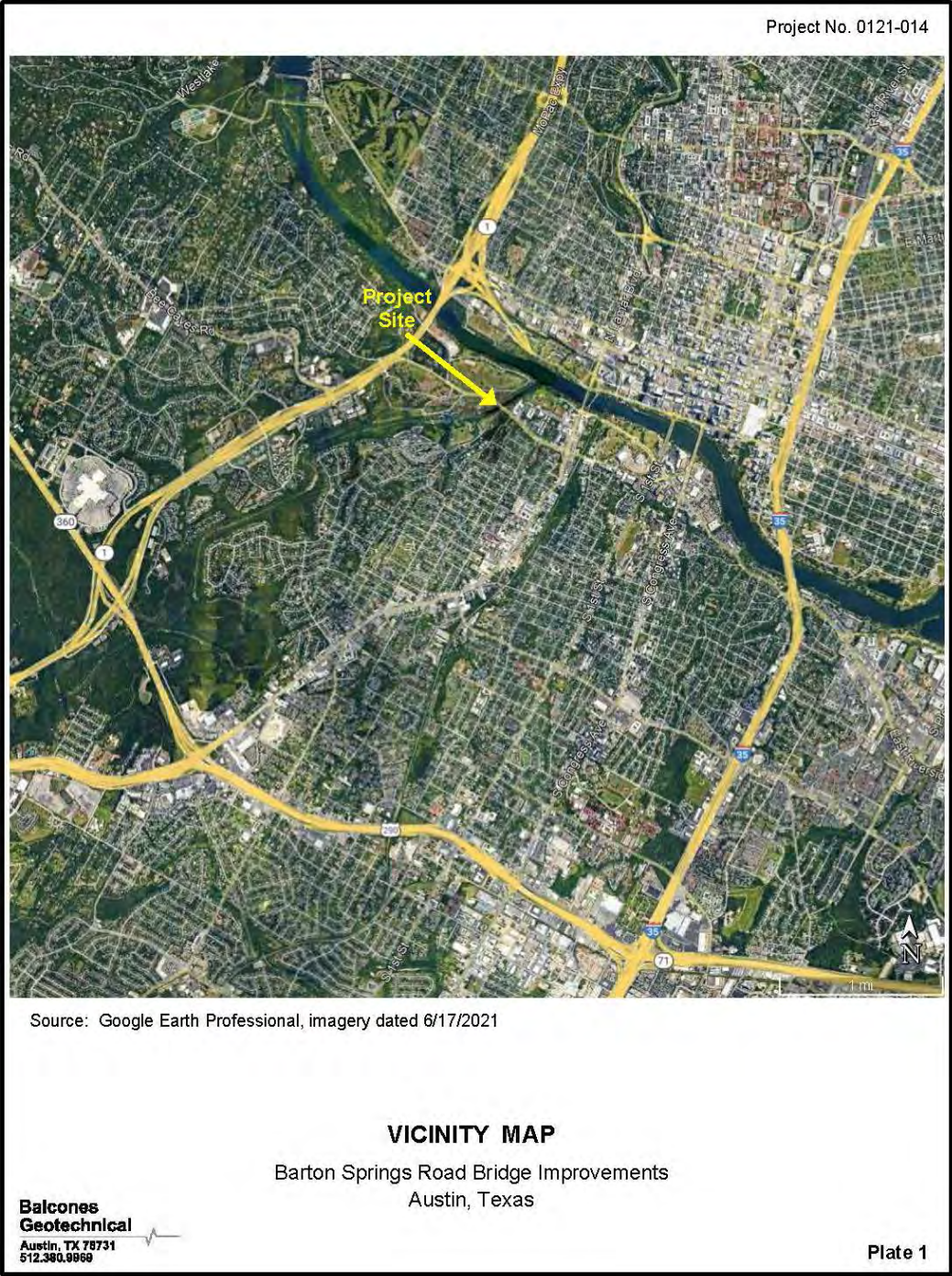
PHOTO 5
Buda Limestone (Kbu) at location 5

23334-001ERI Contact Verification Photographs



PHOTO 6
Fluviatile Terrace Deposits (Qt) at location 6

Geotechnical



UMLAUF HPEU PLAN

WWW.DJEE.ORG 0120 7626200 (UK) 0629702510 (US)

ALL OTHERS: 012 444 40000 012 444 40000 012 444 40000

Geotechnical

Project No. 0121-014



SAMPLE PHOTOGRAPHS – T-4

Barton Springs Road Bridge Improvements
Austin, Texas

**Balcones
Geotechnical**
Austin, TX 78731
512.380.9969

Sheet 1 of 2

Project No. 0121-014



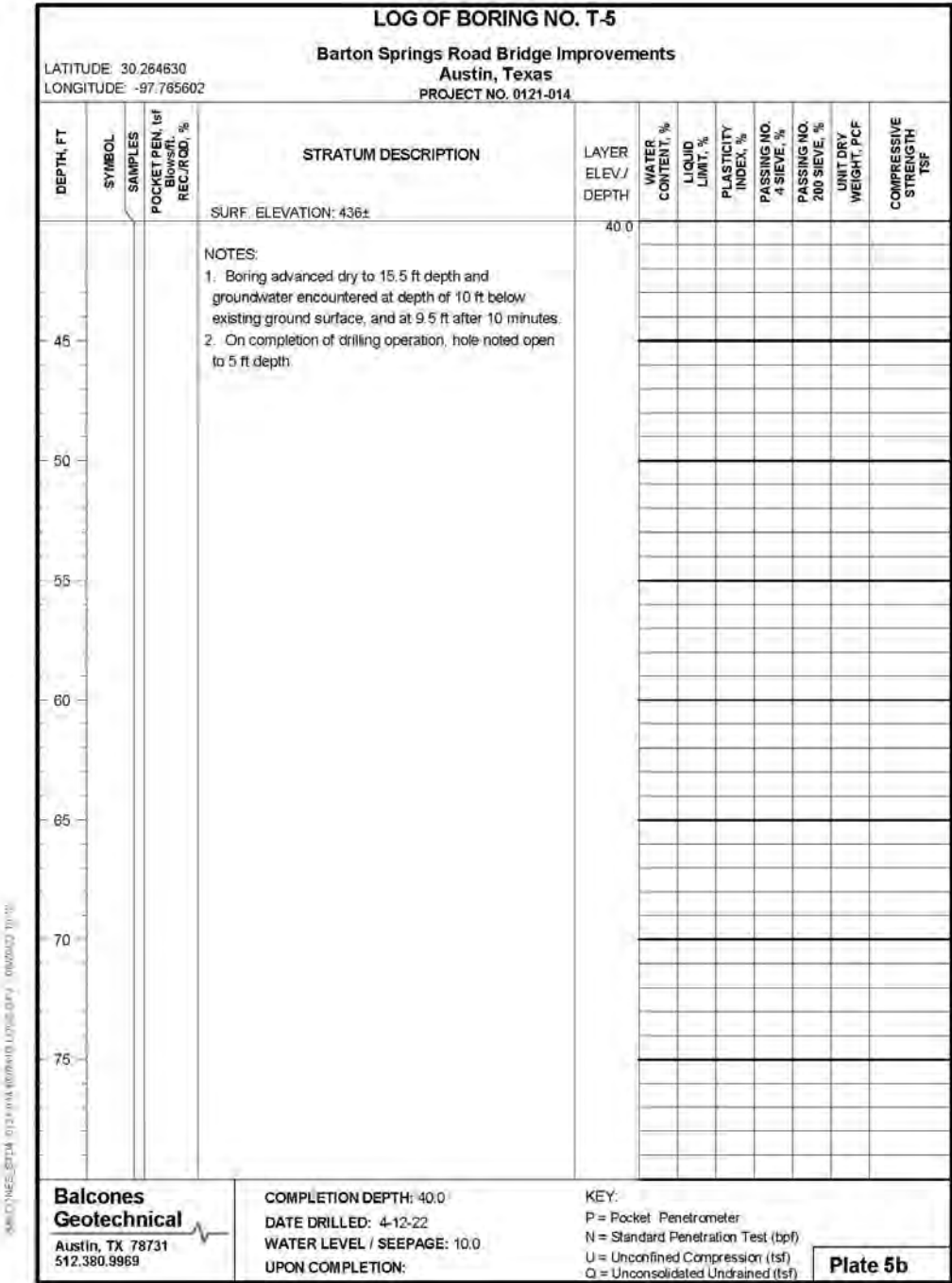
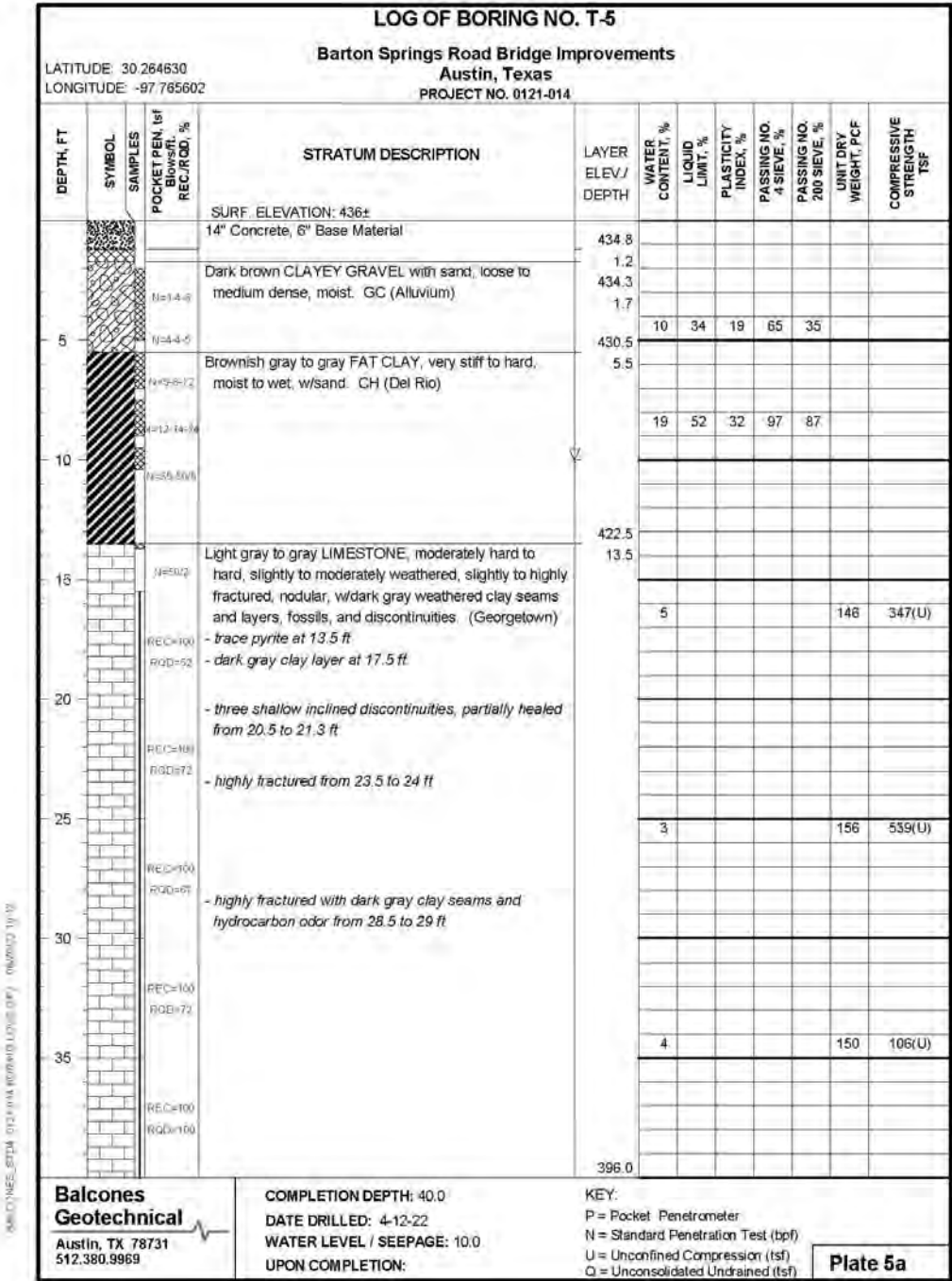
SAMPLE PHOTOGRAPHS – T-4

Barton Springs Road Bridge Improvements
Austin, Texas

**Balcones
Geotechnical**
Austin, TX 78731
512.380.9969

Sheet 2 of 2

Geotechnical



Geotechnical

Project No. 0121-014



Handwritten labels on bags: T-5, 2-3-7, 1-4-5, 0121-014, T-5, 7.5-9, 12-14-24, 0121-014, T-5, 9.5-11, 0121-014, T-5, 13.5-15, 40/11. Yellow text overlays: 2 ft, 7.5 ft, 15 ft.



Yellow text overlay: 15 ft – Georgetown Limestone. White label: 20. Yellow text overlay: 20 ft, 25 ft.

Balcones Geotechnical

Austin, TX 78731

512.380.9969

SAMPLE PHOTOGRAPHS – T-5

Barton Springs Road Bridge Improvements

Austin, Texas

Sheet 1 of 2

Project No. 0121-014



Yellow text overlays: 25 ft, 30 ft, 35 ft. White label: 20.



Yellow text overlays: 35 ft, 40 ft. White label: 20.

Balcones Geotechnical

Austin, TX 78731

512.380.9969

SAMPLE PHOTOGRAPHS – T-5

Barton Springs Road Bridge Improvements

Austin, Texas

Sheet 2 of 2

UMLAUF HPEU PLAN

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UMLAUF HPEU PLAN



Geotechnical

Project No. 0121-014



SAMPLE PHOTOGRAPHS – W-1

Barton Springs Road Bridge Improvements
Austin, Texas

Balcones Geotechnical
Austin, TX 78731
512.380.9969

Sheet 1 of 2

Project No. 0121-014



SAMPLE PHOTOGRAPHS – W-1

Barton Springs Road Bridge Improvements
Austin, Texas

Balcones Geotechnical
Austin, TX 78731
512.380.9969

Sheet 2 of 2

UMLAUF HPEU PLAN



Geotechnical

Project No. 0121-014



SAMPLE PHOTOGRAPHS – W-2

Barton Springs Road Bridge Improvements
Austin, Texas

Balcones Geotechnical
Austin, TX 78731
512.380.9969

Sheet 1 of 2

Project No. 0121-014

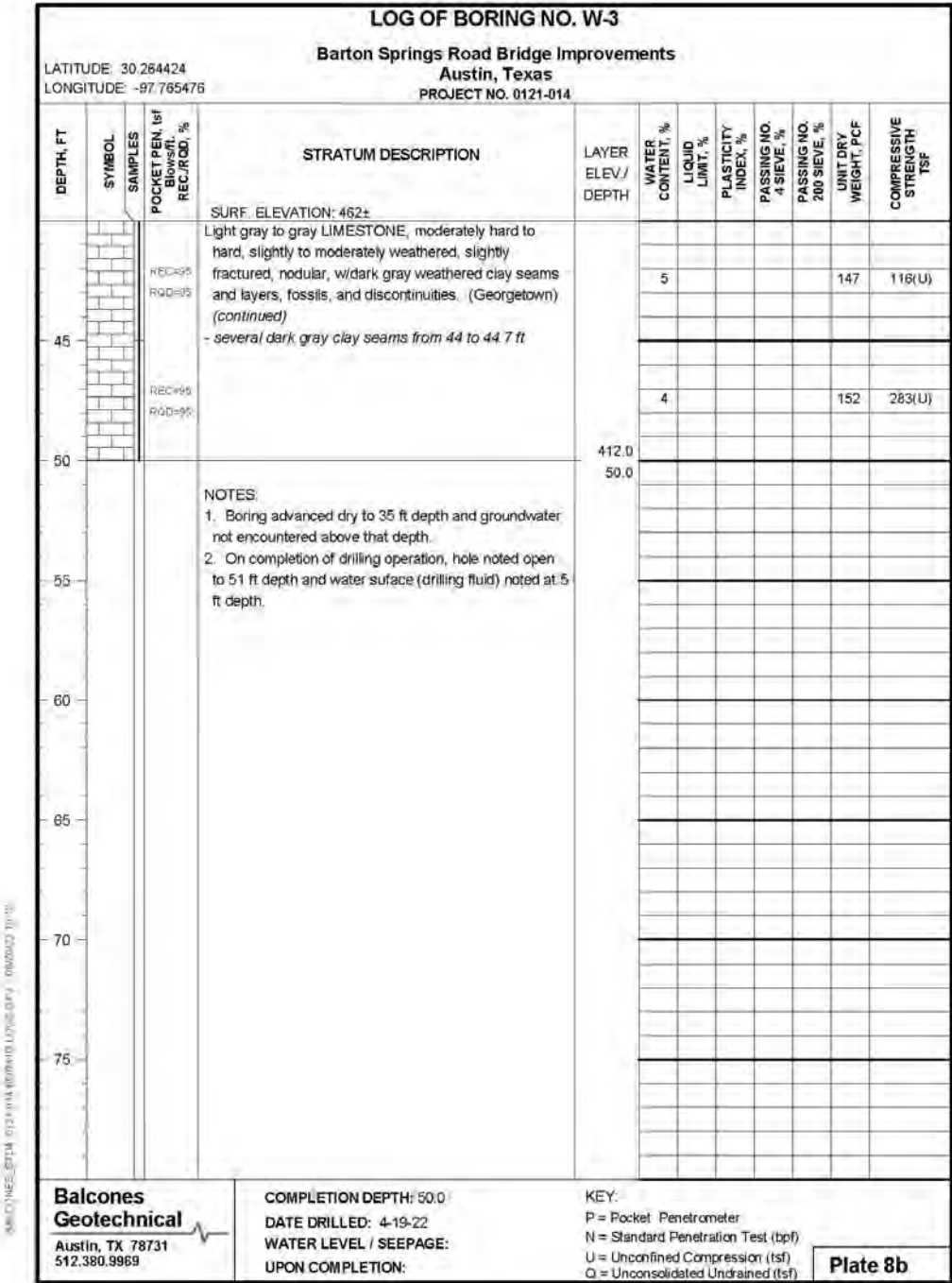
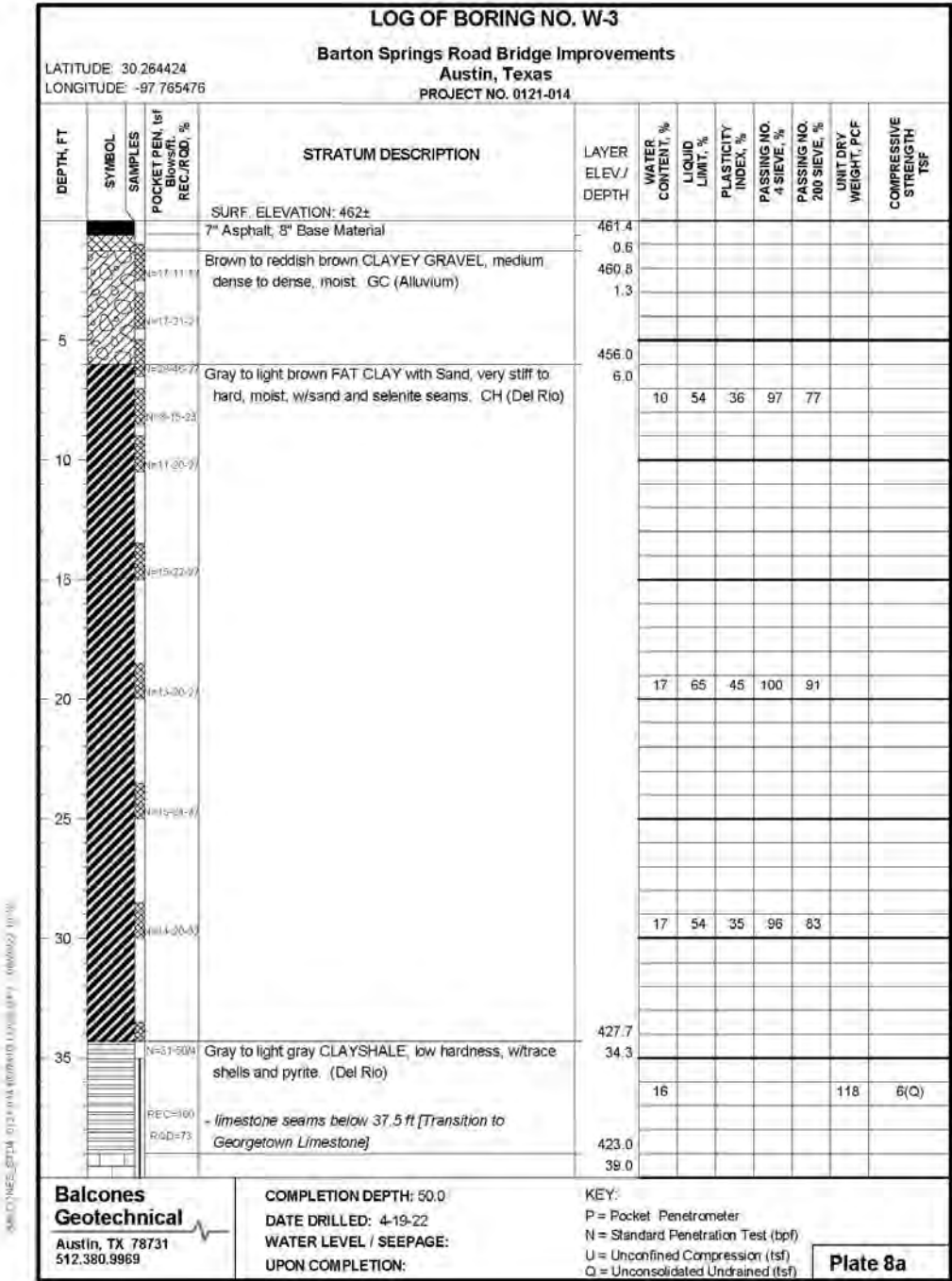


SAMPLE PHOTOGRAPHS – W-2

Barton Springs Road Bridge Improvements
Austin, Texas

Balcones Geotechnical
Austin, TX 78731
512.380.9969

Sheet 2 of 2



Geotechnical

Project No. 0121-014

15 ft

18.5 ft

34.3 ft

Balcones
Geotechnical

Austin, TX 78731
512.380.9969

SAMPLE PHOTOGRAPHS – W-3

Barton Springs Road Bridge Improvements
Austin, Texas

Sheet 1 of 2

Project No. 0121-014

45 ft

50 ft

Balcones
Geotechnical

Austin, TX 78731
512.380.9969

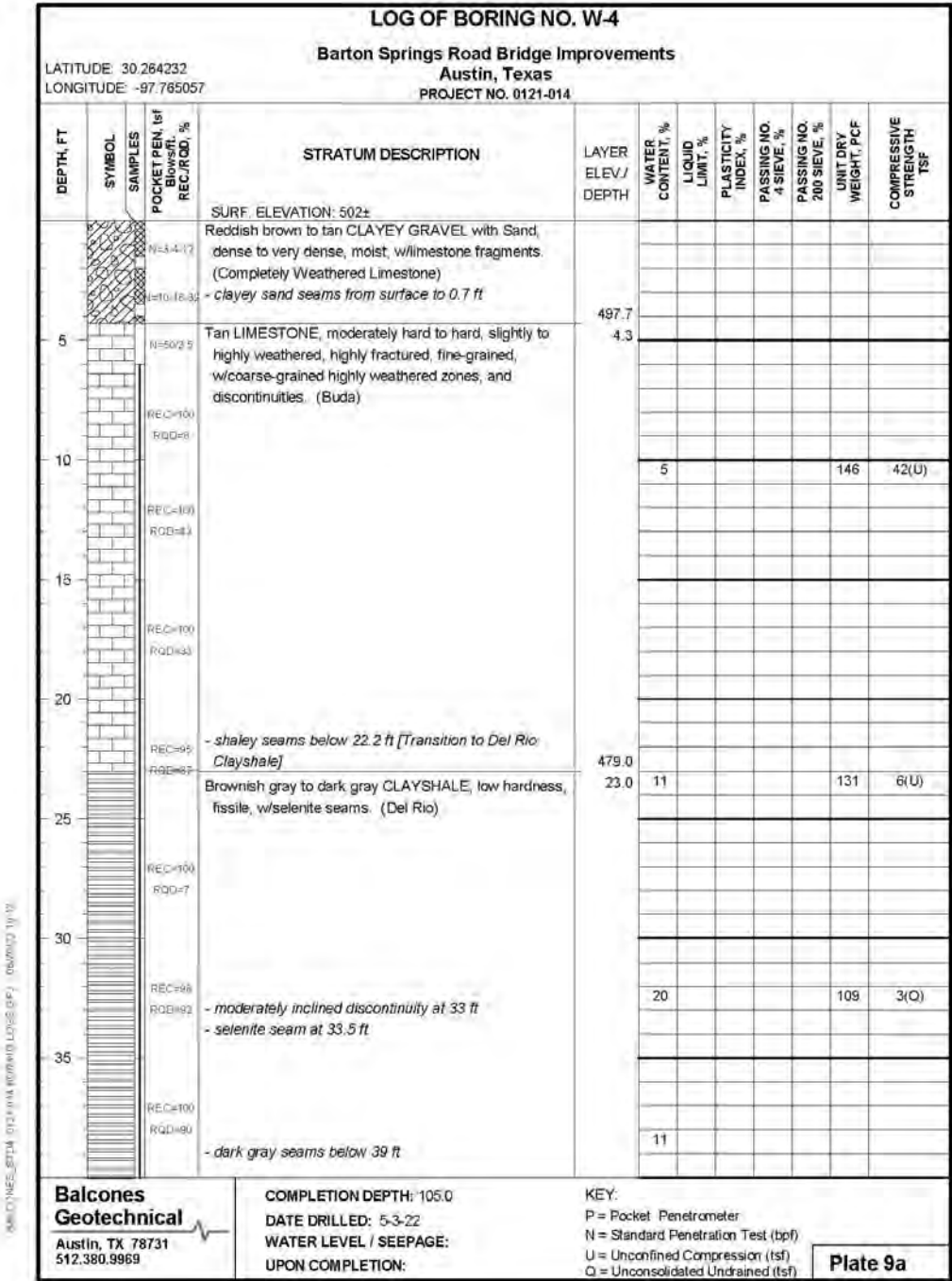
SAMPLE PHOTOGRAPHS – W-3

Barton Springs Road Bridge Improvements
Austin, Texas

Sheet 2 of 2

UMLAUF HPEU PLAN

APPENDIX | 254



LOG OF BORING NO. W-4

LATITUDE 30.264232
LONGITUDE -97.765057

Barton Springs Road Bridge Improvements
Austin, Texas
PROJECT NO. 0121-014

Balcones Geotechnical

Austin, TX 78731
512.380.9969

COMPLETION DEPTH: 105.0
DATE DRILLED: 5-3-22
WATER LEVEL / SEEPAGE:
UPON COMPLETION:

KEY:
P = Pocket Penetrometer
N = Standard Penetration Test (bpf)
U = Unconfined Compression (tsf)
Q = Unconsolidated Undrained (tsf)

Plate 9b

Geotechnical

LOG OF BORING NO. W-4

Barton Springs Road Bridge Improvements
Austin, Texas
PROJECT NO. 0121-014

LATITUDE: 30.264232
LONGITUDE: -97.765057

DEPTH, FT	SYMBOL	SAMPLES POCKET PEN. tsf BLOWN REC. QD, %	STRATUM DESCRIPTION	LAYER ELEV./ DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTICITY INDEX, %	PASSING NO. 4 SIEVE, %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH TSF
			SURF. ELEVATION: 502+	80.0							
		REC=100 RQD=100	Light gray to gray LIMESTONE, moderately hard to hard, slightly to moderately weathered, slightly fractured, nodular, w/dark gray weathered clay seams and layers, fossils, and discontinuities. (Georgetown)		13					125	30(U)
85			- clay seam at 84.5 ft - fossiliferous from 85 to 86 ft								
		REC=100 RQD=100			7					143	68(U)
90											
		REC=100 RQD=90	- multiple inclined clay-coated discontinuities from 92.5 to 93.5 ft								
95											
		REC=100 RQD=63			4					151	343(U)
100			- clay seams at 100.5 ft								
		REC=100 RQD=87			4					151	126(U)
105				397.0 105.0							
			NOTES: 1. Boring advanced dry to 6 ft depth and groundwater not encountered above that depth. 2. On completion of drilling operation, hole noted open to 33 ft depth and water surface (drilling fluid) noted at 29 ft depth.								
110											
115											

Balcones
Geotechnical

Austin, TX 78731
512.380.9969

COMPLETION DEPTH: 105.0
DATE DRILLED: 5-3-22
WATER LEVEL / SEEPAGE:
UPON COMPLETION:

KEY:
P = Pocket Penetrometer
N = Standard Penetration Test (bpf)
U = Unconfined Compression (tsf)
Q = Unconsolidated Undrained (tsf)

Plate 9c

Project No. 0121-014





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SAMPLE PHOTOGRAPHS – W-4
Barton Springs Road Bridge Improvements
Austin, Texas

Sheet 1 of 6

Geotechnical

Project No. 0121-014



SAMPLE PHOTOGRAPHS – W-4

Barton Springs Road Bridge Improvements

Austin, Texas

Balcones Geotechnical

Austin, TX 78731

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Sheet 2 of 6

Project No. 0121-014



SAMPLE PHOTOGRAPHS – W-4

Barton Springs Road Bridge Improvements

Austin, Texas

Balcones Geotechnical

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Sheet 3 of 6

UMLAUF HPEU PLAN

APPENDIX | 257

Geotechnical

Project No. 0121-014

50 ft

55 ft

60 ft

60 ft

65 ft

70 ft

Core loss due to core barrel jam - 65 to 70 ft

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SAMPLE PHOTOGRAPHS – W-4
Barton Springs Road Bridge Improvements
Austin, Texas

Sheet 4 of 6

Project No. 0121-014

70 ft

75 ft

80 ft

Core loss due to core barrel jam - 70 to 72 ft

80 ft

85 ft

90 ft

80 ft – Georgetown Limestone

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SAMPLE PHOTOGRAPHS – W-4
Barton Springs Road Bridge Improvements
Austin, Texas

Sheet 5 of 6

Geotechnical

Project No. 0121-014



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SAMPLE PHOTOGRAPHS – W-4

Barton Springs Road Bridge Improvements

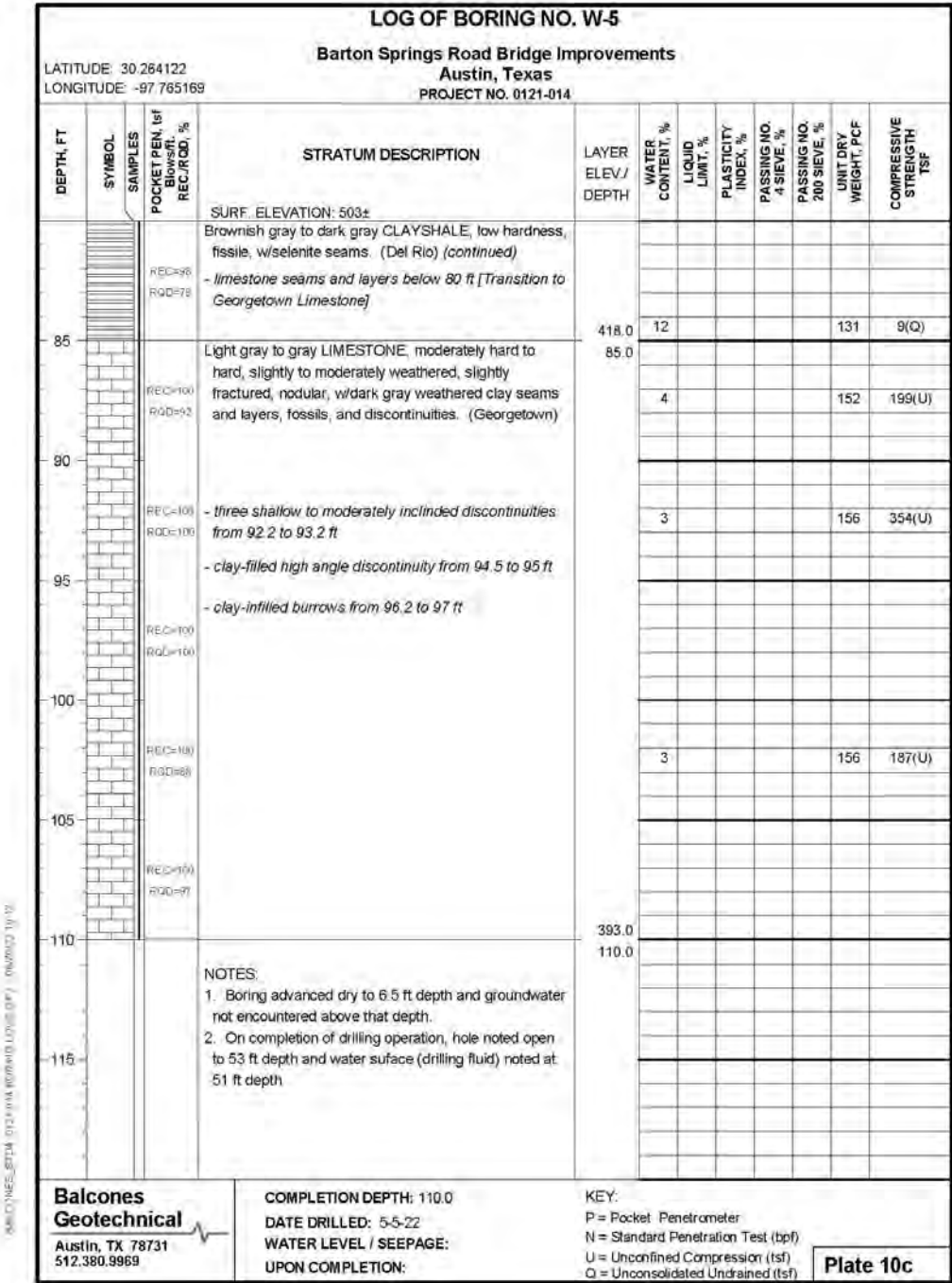
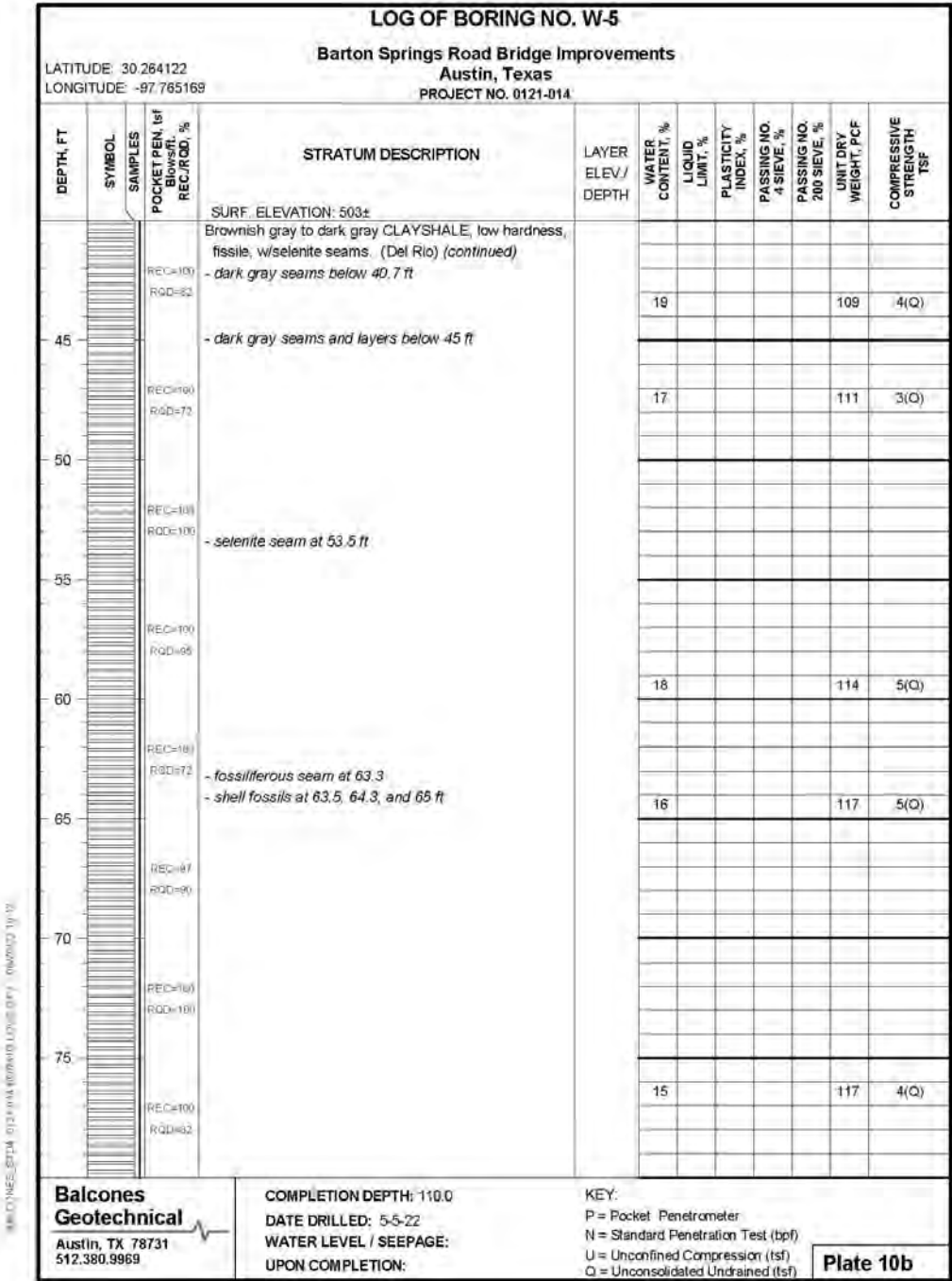
Austin, Texas

Sheet 6 of 6

LOG OF BORING NO. W-5											
Barton Springs Road Bridge Improvements Austin, Texas PROJECT NO. 0121-014											
LATITUDE: 30.264122 LONGITUDE: -97.765169		SURF. ELEVATION: 503±									
DEPTH, FT	SYMBOL	SAMPLES	POCKET PEN. 1st Blows/ft. REC./QD, %	STRATUM DESCRIPTION	LAYER ELEV./ DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTICITY INDEX, %	PASSING NO. 4 SIEVE, %	PASSING NO. 200 SIEVE, %	
5				3" Asphalt	502.8						
				Tan CLAYEY GRAVEL, dense to very dense, moist, w/limestone fragments. (Completely Weathered Limestone)	0.3						
					499.0						
				Tan LIMESTONE, moderately hard to hard, slightly to highly weathered, slightly to moderately fractured, fine-grained, w/coarse-grained highly weathered zones, and discontinuities. (Buda)	4.0						
				- ferrous stained vug at 7.5 ft							
10			REC=100 RQD=50	- shallow to moderately inclined discontinuities at 10.3 ft		5				147	347(U)
15			REC=100 RQD=42								
20			REC=100 RQD=45	Brownish gray to dark gray CLAYSHALE, low hardness, fissile, w/selenite seams. (Del Rio)	484.8 18.2	11				129	9(U)
25			REC=97 RQD=55	- limestone seams from 19 to 21 ft [Transition to Del Rio Clayshale]							
30			REC=87 RQD=39	- 100% water loss at 25 ft			63	39	100	99	
35			REC=169 RQD=30								
			REC=89 RQD=36			17				116	7(Q)
COMPLETION DEPTH: 110.0				KEY: P = Pocket Penetrometer N = Standard Penetration Test (bpf) U = Unconfined Compression (tsf) Q = Unconsolidated Undrained (tsf)							
DATE DRILLED: 5-5-22				WATER LEVEL / SEEPAGE:							
UPON COMPLETION:				Plate 10a							

UMLAUF HPEU PLAN

APPENDIX | 259



Geotechnical

Project No. 0121-014



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SAMPLE PHOTOGRAPHS – W-5

Barton Springs Road Bridge Improvements
Austin, Texas

Sheet 1 of 6

Project No. 0121-014



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SAMPLE PHOTOGRAPHS – W-5

Barton Springs Road Bridge Improvements
Austin, Texas

Sheet 2 of 6

Geotechnical

Project No. 0121-014



SAMPLE PHOTOGRAPHS – W-5

Barton Springs Road Bridge Improvements
Austin, Texas

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Sheet 3 of 6

Project No. 0121-014



SAMPLE PHOTOGRAPHS – W-5

Barton Springs Road Bridge Improvements
Austin, Texas

**Balcones
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Sheet 4 of 6

Geotechnical

Project No. 0121-014

70 ft

75

75 ft

80 ft

80 ft

85 ft – Georgetown Limestone

90 ft

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SAMPLE PHOTOGRAPHS – W-5

Barton Springs Road Bridge Improvements

Austin, Texas

Sheet 5 of 6

Project No. 0121-014

90

90 ft

95

95 ft

100 ft

100

100 ft

105

105 ft

110 ft

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SAMPLE PHOTOGRAPHS – W-5














Barton Springs Road Bridge Improvements

















Austin, Texas

Sheet 6 of 6

UMLAUF HPEU PLAN

APPENDIX | 263

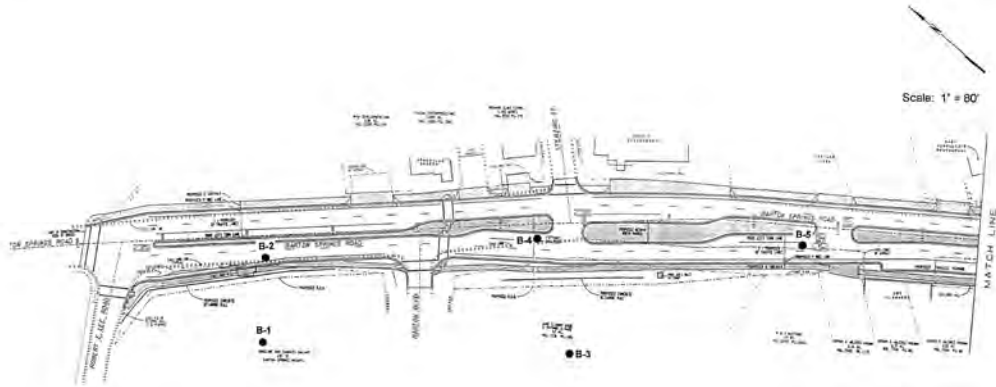
TERMS AND SYMBOLS USED ON BORING LOGS FOR SOIL																																																			
SOIL TYPES																																																			
 CLAY (CH)	 SHALY CLAY (CH)	 CLAY (CL)	 SANDY CLAY (CL)																																																
 Well-Graded SAND (SW)	 Poorly-Graded SAND (SP)	 SILTY SAND (SM)	 CLAYEY SAND (SC)																																																
 Well-Graded GRAVEL (GW)	 Poorly-Graded GRAVEL (GP)	 SILTY GRAVEL (GM)	 FILL Material																																																
SOIL GRAIN SIZE																																																			
U.S. STANDARD SIEVE																																																			
<table><tr><td>12"</td><td>3"</td><td>3/4"</td><td>4</td><td>10</td><td>40</td><td>200</td><td></td></tr><tr><td>BOULDERS</td><td>COBBLES</td><td colspan="2">GRAVEL</td><td colspan="3">SAND</td><td></td></tr><tr><td></td><td></td><td>COARSE</td><td>FINE</td><td>COARSE</td><td>MEDIUM</td><td>FINE</td><td></td></tr><tr><td>304</td><td>76.2</td><td>19.1</td><td>4.76</td><td>2.00</td><td>0.420</td><td>0.074</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.002</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>CLAY</td></tr></table>				12"	3"	3/4"	4	10	40	200		BOULDERS	COBBLES	GRAVEL		SAND						COARSE	FINE	COARSE	MEDIUM	FINE		304	76.2	19.1	4.76	2.00	0.420	0.074									0.002								CLAY
12"	3"	3/4"	4	10	40	200																																													
BOULDERS	COBBLES	GRAVEL		SAND																																															
		COARSE	FINE	COARSE	MEDIUM	FINE																																													
304	76.2	19.1	4.76	2.00	0.420	0.074																																													
							0.002																																												
							CLAY																																												
SOIL GRAIN SIZE IN MILLIMETERS																																																			
STRENGTH OF COHESIVE SOILS ⁽²⁾		DENSITY OF GRANULAR SOILS ⁽²⁾																																																	
CONSISTENCY	UNDRAINED COMPRESSIVE STRENGTH Tons Per Sq. Ft.	NUMBER OF BLOWS PER FT., N	RELATIVE DENSITY																																																
Very Soft	Less Than 0.25	0-4	Very Loose																																																
Soft	0.25 to 0.50	4-10	Loose																																																
Firm	0.5 to 1.00	10-30	Medium																																																
Stiff	1.00 to 2.00	30-50	Dense																																																
Very Stiff	2.00 to 4.00	Over 50	Very Dense																																																
Hard	greater than 4.00																																																		
DESCRIPTIVE TERMS FOR SOIL ⁽¹⁾																																																			
DESCRIPTION	CRITERIA	MOISTURE																																																	
Stratified	Alternating layers of varying material or color with layers at least 6 mm thick.	Dry	No water evident in sample; fines less than plastic limit.																																																
		Moist	Sample feels damp; fines near the plastic limit.																																																
Laminated	Alternating layers of varying material or color with the layers less than 6 mm thick.	Very Moist	Water visible on sample; fines greater plastic limit and less than liquid limit.																																																
		Wet	Sample bears free water; fines greater than liquid limit.																																																
Fissured	Breaks along definite planes of fracture with little resistance to fracturing.	INCLUSIONS ⁽¹⁾																																																	
Slickensided	Fracture planes appear polished or glossy, sometimes striated.	Parting	Inclusion <1/8" thick extending through sample.																																																
		Seam	Inclusion 1/8" to 3" thick extending through sample.																																																
Blocky	Cohesive soil that can be broken down into small angular lumps which resist further breakdown.	Layer	Inclusion >3" thick extending through sample.																																																
Lensed	Inclusions of small pockets of different soils.	Trace	<5% of sample.																																																
		Few	5% to 10% of sample.																																																
		Little	15 to 25% of sample.																																																
		With	15% to 29% of sample.																																																
 Balcones Geotechnical Austin, TX 78731 512.451.8600		NOTE: Information on each boring log is a compilation of subsurface conditions and soil and rock classifications obtained from the field as well as from laboratory testing of samples. Strata have been interpreted from commonly accepted procedures. The stratum lines on the logs may be transitional and approximate in nature. Water level measurements refer only to those observed at the times and places indicated, and may vary with time, geologic condition or construction activity.																																																	
REFERENCES: 1) ASTM D 2488 2) Peck, Hanson and Thornburn, (1974), <u>Foundation Engineering</u> .		Plate 11																																																	

TERMS AND SYMBOLS USED ON BORING LOGS FOR ROCK					
ROCK TYPES			SAMPLER TYPES		
 LIMESTONE	 SHALE	 SANDSTONE	 Thin-walled Tube	 Rock Core	
 WEATHERED LIMESTONE	 WEATHERED SHALE	 WEATHERED SANDSTONE	 Standard Penetration Test	 Auger Sample	
 HIGHLY WEATHERED LIMESTONE	 ARGILLACEOUS LIMESTONE	 MARL	 THD Cone Penetration Test	 Bag Sample	
SOLUTION & VOID CONDITIONS			WEATHERING GRADES OF ROCKMASS ⁽¹⁾		
Void	Interstices; a general term for pore space or other openings in rock.		Slightly	Discoloration indicates weathering of rock material and discontinuity surfaces.	
Cavities	Small solutional concavities.		Moderately	Less than half of the rock material is decomposed or disintegrated to a soil.	
Vuggy	Containing small cavities, usually lined with a mineral of different composition from that of the surrounding rock.		Highly	More than half of the rock material is decomposed or disintegrated to a soil.	
Vesicular	Containing numerous small, unlined cavities, formed by expansion of gas bubbles or steam during solidification of the rock.		Completely	All rock material is decomposed and/or disintegrated to soil. The original mass structure is still largely intact.	
Porous	Containing pore, interstices, or other openings which may or may not interconnect.		Residual Soil	All rock material is converted to soil. The mass structure and material fabric are destroyed.	
Cavernous	Containing cavities or caverns, sometimes quite large. Most frequent in limestones and dolomites.				
HARDNESS			BEDDING THICKNESS ⁽²⁾		
Friable	Crumbles under hand pressure		Very Thick	>4'	
Low Hardness	Can be carved with a knife		Thick	2'-4'	
Moderately Hard	Can be scratched easily with a knife		Thin	2"-2'	
Very Hard	Cannot be scratched with a knife		Very Thin	1/2"-2"	
			Laminated	0.08"-1/2"	
			Thinly-Laminated	<0.08"	
JOINT DESCRIPTION					
SPACING		INCLINATION		SURFACES	
Very Close	<2"	Horizontal	0-5	Slickensided	Polished, grooved
Close	2"-12"	Shallow	5-35	Smooth	Planar
Medium Close	12"-3'	Moderate	35-85	Irregular	Undulating or granular
Wide	>3'	Sleep	85-85	Rough	Jagged or pitted
		Vertical	85-90		
<div><div>Balcones Geotechnical Austin, TX 78731 512.451.8600</div><div>NOTE: Information on each boring log is a compilation of subsurface conditions and soil and rock classifications obtained from the field as well as from laboratory testing of samples. Strata have been interpreted by commonly accepted procedures. The stratum lines on the logs may be transitional and approximate in nature. Water level measurements refer only to those observed at the times and places indicated, and may vary with time, geologic condition or construction activity.</div><div>REFERENCES: 1) British Standard (1981) <u>Code of Practice for Site Investigation</u> BS 5830. 2) The Bridge Division, Texas Highway Dept. <u>Foundation Exploration & Design Manual</u>, 2nd Edition, revised June, 1974.</div></div>					
					Plate 12

Geotechnical

Report No. 1001-2559

FUGRO



PLAN OF BORINGS
Barton Springs Road Improvements
Austin, Texas
PLATE 2a

LOG OF BORING B-1

FUGRO

Barton Springs Road Improvements
Austin, Texas

TYPE: Wet Rotary			LOCATION: Umlauf Residence							
DEPTH, FT	SYMBOL	SAMPLES BLOWS PER FOOT OR REC/(RQD), %	STRATUM DESCRIPTION	LAYER ELEV./ DEPTH	WATER CONTENT, %	LIQUID LIMIT, %	PLASTICITY INDEX(PI), %	PASSING NO. 200 SIEVE, %	UNIT DRY WEIGHT, PCF	COMPRESSIVE STRENGTH, TSF
			SURF. EL. 508 ft+ Job No. 1001-2559							
		72 (8)	Dark brown sandy lean CLAY, hard, w/roots, (Fill)	507.5 0.5						4.0(P)
5		57 (7)	Tan LIMESTONE, highly weathered, hard, medium- to fine-grained, w/soft seams. (Buda) -100% water loss at 3.5 ft							
10		100 (25)	-100% water loss at 10.5 ft							
15		93 (0)								
20		100 (27)	-continuous water loss below 20 ft							
25		40 (0)			1				162	259(U)
30		45 (0)	Dark greenish gray fat CLAY, hard, fissured, w/selenite seams and fossils. CH (Del Rio)	478.0 30.0						
35		80 (80)			19	55	33	79	112	6.9(Q)
40		100 (67)	Dark gray CLAYSHALE, low hardness. (Del Rio)	466.6 41.4	18	67	44	92	123	7.6(Q)
45		88 (63)	-alternating greenish gray w/selenite crystals above 47 ft		16				115	13(U)
					14	59	39	90		

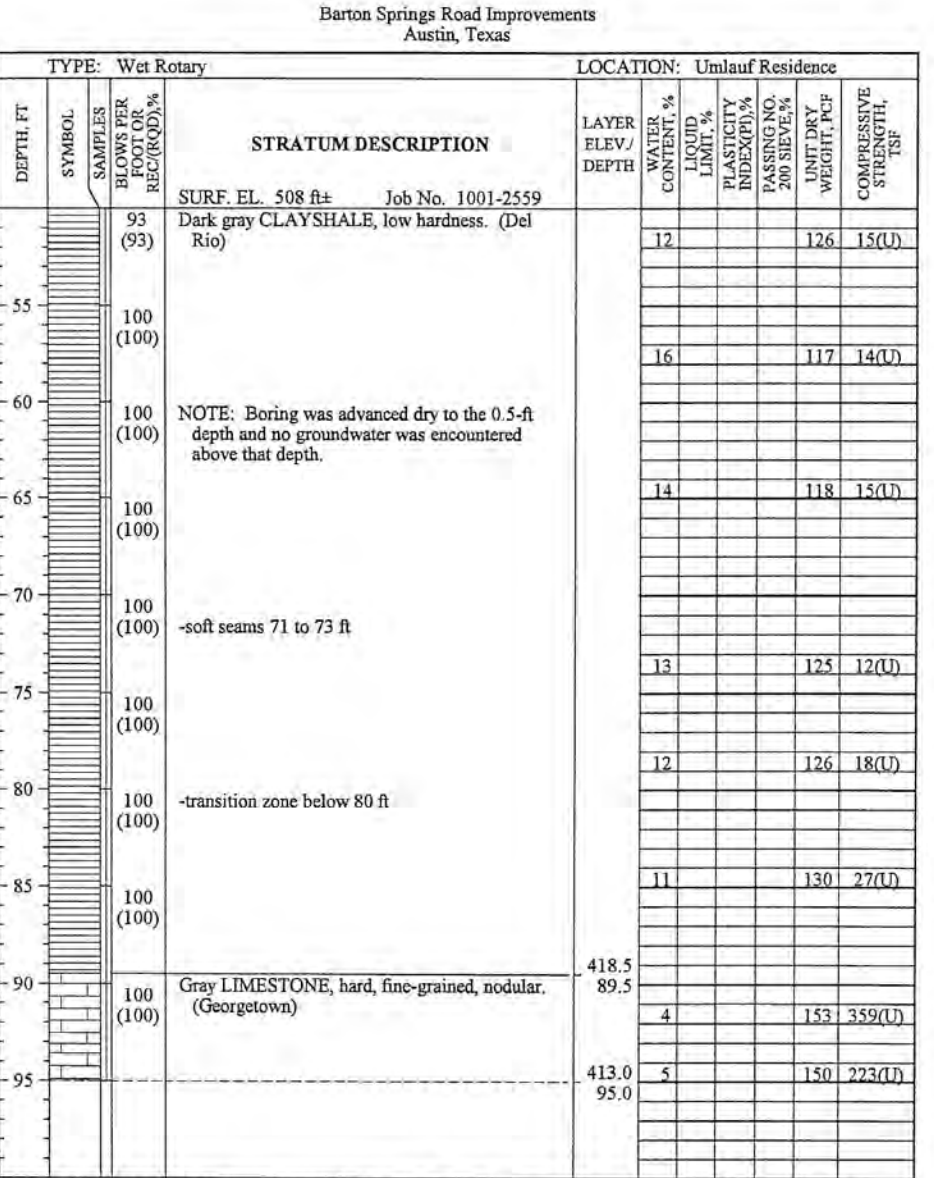
COMPLETION DEPTH: 95.0 ft DEPTH TO WATER: See Note
DATE: 4/27/99

U = Unconfined
Q = Unconsolidated
Undrained Triaxial
P = Pocket Penetrometer
T = Torvane

PLATE 3a

Geotechnical

LOG OF BORING B-1



COMPLETION DEPTH: 95.0 ft DEPTH TO WATER: See Note
DATE: 4/27/99

U = Unconfined P = Pocket Penetrometer
Q = Unconsolidated T = Torvanc
Undrained Triaxial

PLATE 3b

TERMS & SYMBOLS USED ON BORING LOGS FOR SOIL

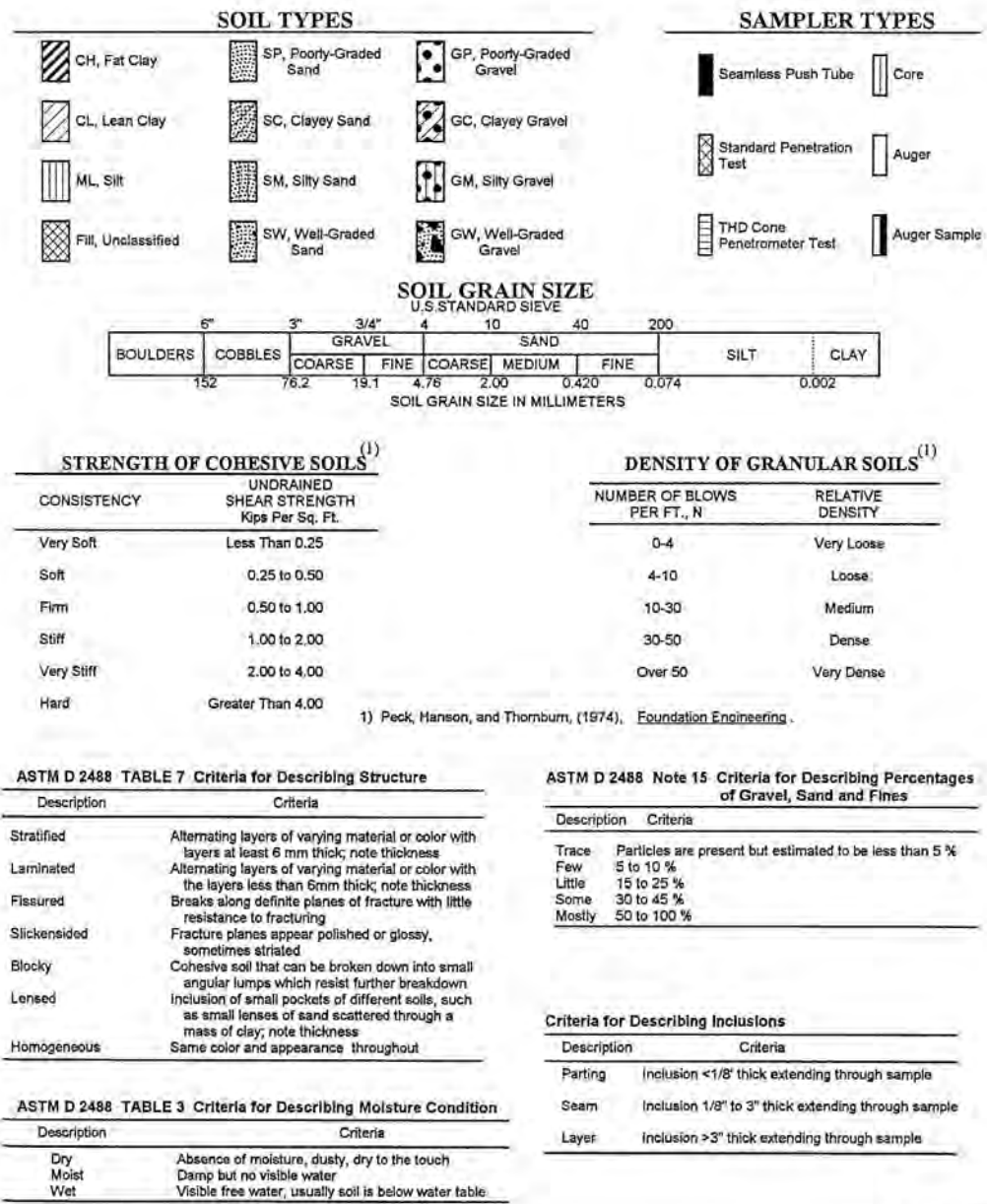


PLATE 14

TERMS & SYMBOLS USED ON BORING LOGS FOR ROCK



ROCK TYPES		SAMPLER TYPES	
LIMESTONE	DOLOMITE	SANDSTONE	Seamless Push Tube
HIGHLY WEATHERED LIMESTONE	HIGHLY WEATHERED DOLOMITE	SHALE	Core
DOLOMITIC LIMESTONE	GRANITE	CLAYSHALE	Standard Penetration Test
			Auger
			TxDOT Cone Penetration Test
			Auger Sample

HARDNESS	
Friable	- Crumbles under hand pressure
Low Hardness	- Can be carved with a knife
Moderately Hard	- Can be scratched easily with a knife
Hard	- Can be scratched with a knife with difficulty

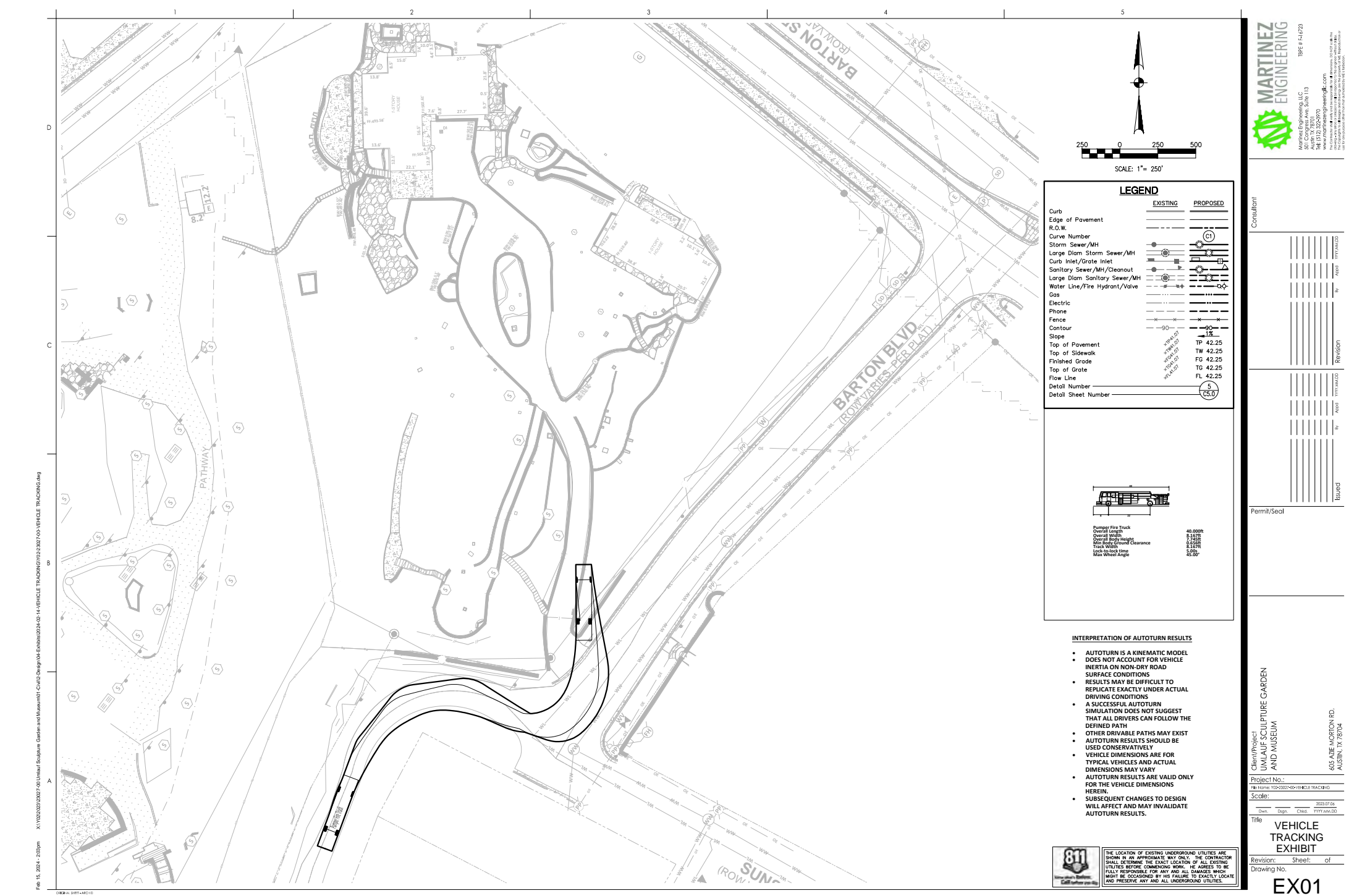
WEATHERING GRADES OF ROCKMASS ⁽¹⁾	
TERM	DESCRIPTION
Slightly	Discoloration indicates weathering of rock material and discontinuity surfaces.
Moderately	Less than half of the rock material is decomposed or disintegrated to a soil.
Highly	More than half of the rock material is decomposed or disintegrated to a soil.
Completely	All rock material is decomposed and/or disintegrated to soil. The original mass structure is still largely intact.
Residual Soil	All rock material is converted to soil. The mass structure and material fabric are destroyed.

BEDDING THICKNESS ⁽²⁾	
Very Thick	>4'
Thick	2' - 4'
Thin	2" - 2'
Very Thin	1/2" - 2"
Laminated	0.08" - 1/2"
Thinly-Laminated	<0.08"

JOINT DESCRIPTION		
SPACING	INCLINATION	SURFACES
Very Close <2"	Horizontal 0 - 5	Slickensided - Polished, grooved
Close 2" - 12"	Shallow 5 - 35	Smooth - Planar
Medium Close 12" - 3'	Moderate 35 - 65	Irregular - Undulating or granular
Wide >3'	Steeply 65 - 85	Rough - Jagged or pitted
	Vertical 85 - 90	

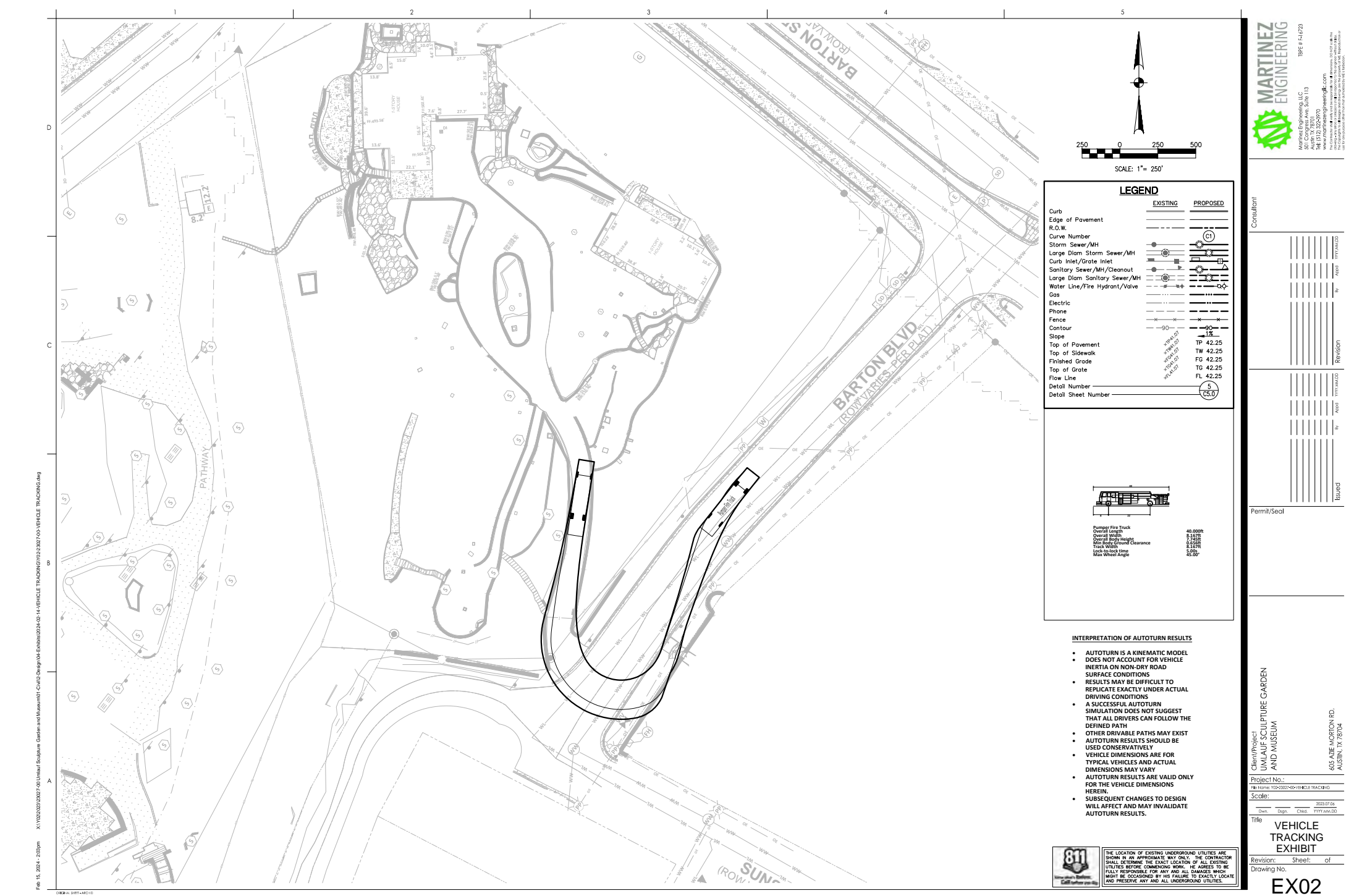
REFERENCES:
1) British Standard (1961) Code of Practice for Site Investigation, BS 5930
2) The Bridge Div., Tx. Highway Dept. Foundation Exploration & Design Manual 2nd Edition, revised June, 1974.

Fire Truck Maneuvers



UMLAUF HPEU PLAN

Fire Truck Maneuvers

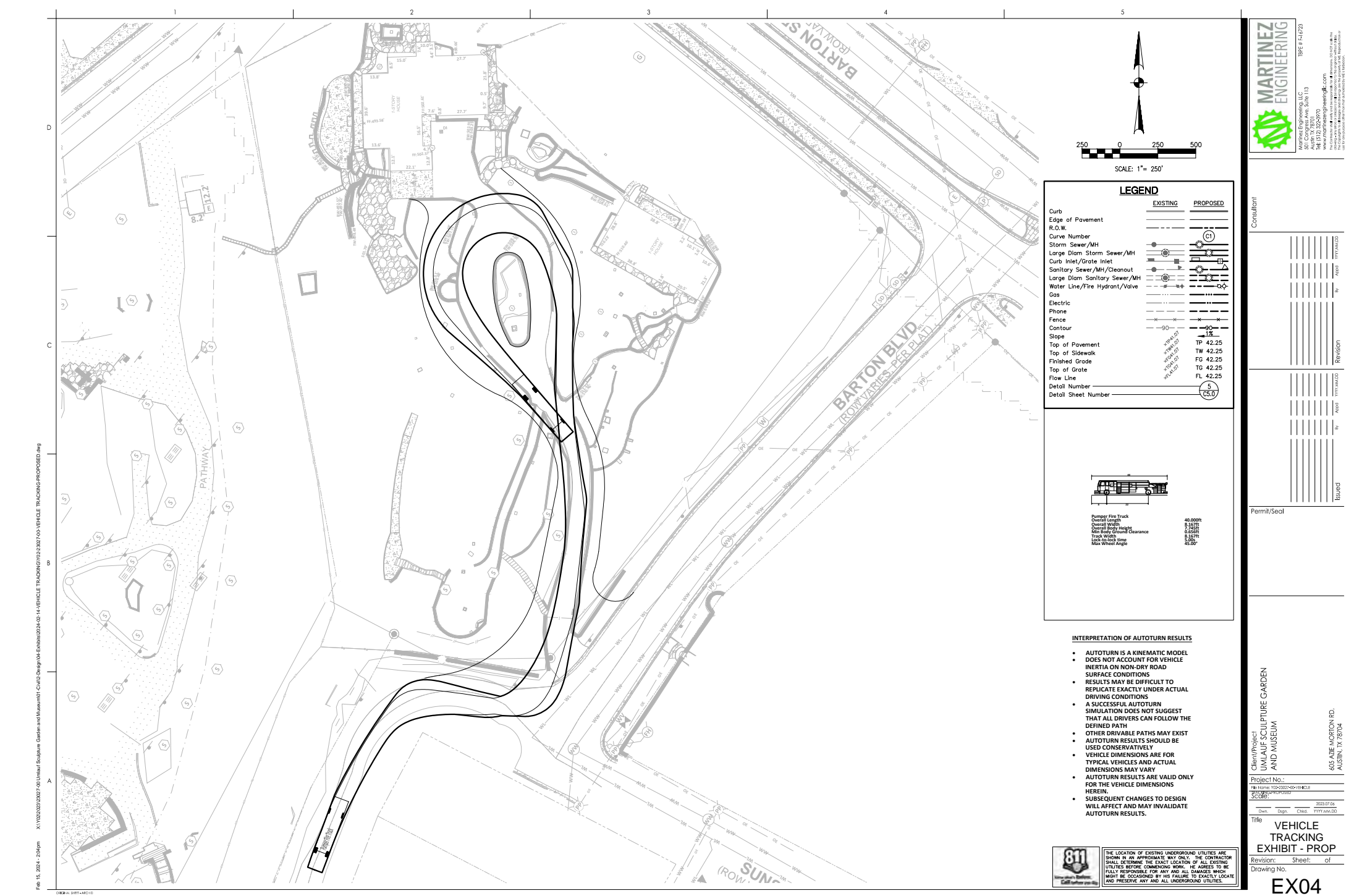


UMLAUF HPEU PLAN

UMLAUF HPEU PLAN

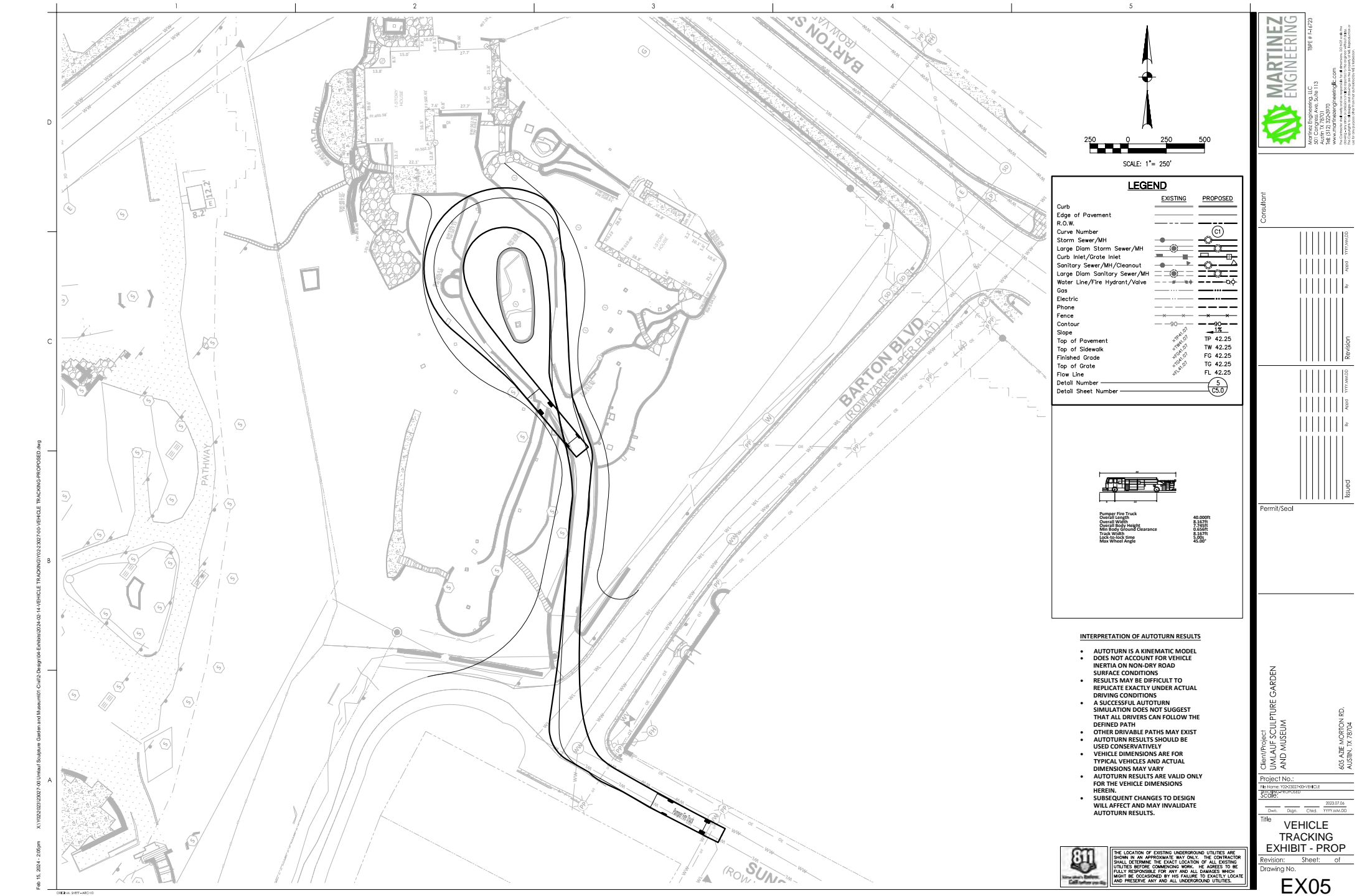


Fire Truck Maneuvers



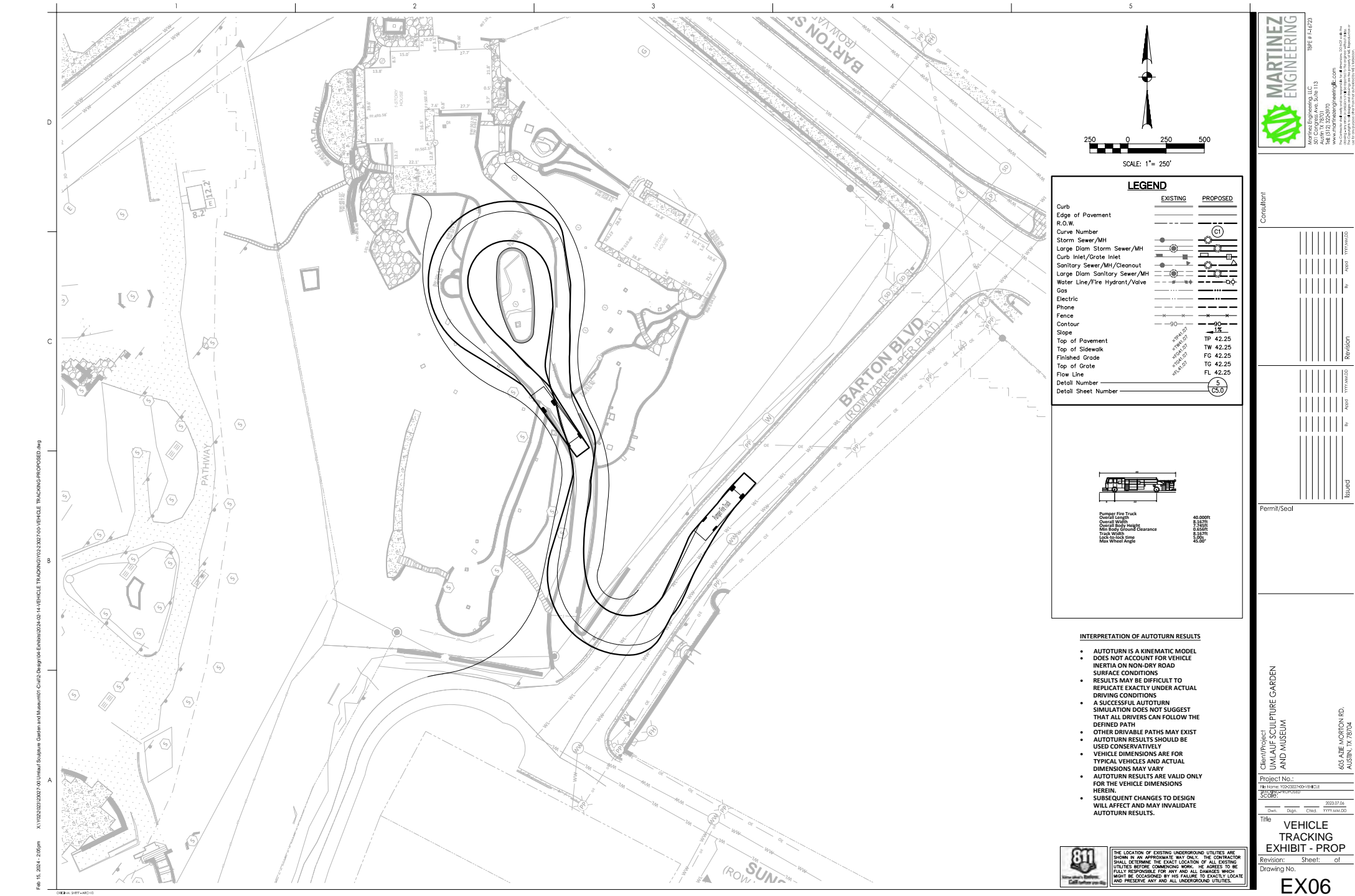
UMLAUF HPEU PLAN

Fire Truck Maneuvers



UMLAUF HPEU PLAN

Fire Truck Maneuvers



UMLAUF HPEU PLAN

