HAGOOD
ENGINEERING ASSOCIATES
Registration No. F-12709

SEWAGE COLLECTION SYSTEM

FOR

YMCA METRO OFFICES

1826 N. IH 35
ROUND ROCK, TX 78664

APPLICANT:
YMCA OF GREATER CENTRAL TEXAS
1812 N. MAYS STREET
ROUND ROCK, TX 78664

SUBMITTED TO:
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
REGION 11 OFFICE
12100 PARK 35 CIRCLE, BLDG A.
AUSTIN, TEXAS 78753

JUNE 2024

HEA#22-036

Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

The Edwards Aquifer Program staff conducts an administrative and technical review of all applications. The turnaround time for administrative review can be up to 30 days as outlined in 30 TAC 213.4(e). Generally administrative completeness is determined during the intake meeting or within a few days of receipt. The turnaround time for technical review of an administratively complete Edwards Aquifer application is 90 days as outlined in 30 TAC 213.4(e). Please know that the review and approval time is directly impacted by the quality and completeness of the initial application that is received. In order to conduct a timely review, it is imperative that the information provided in an Edwards Aquifer application include final plans, be accurate, complete, and in compliance with 30 TAC 213.

Administrative Review

1. Edwards Aquifer applications must be deemed administratively complete before a technical review can begin. To be considered administratively complete, the application must contain completed forms and attachments, provide the requested information, and meet all the site plan requirements. The submitted application and plan sheets should be final plans. Please submit one full-size set of plan sheets with the original application, and half-size sets with the additional copies.

   To ensure that all applicable documents are included in the application, the program has developed tools to guide you and web pages to provide all forms, checklists, and guidance. Please visit the below website for assistance: http://www.tceq.texas.gov/field/eapp.

2. This Edwards Aquifer Application Cover Page form (certified by the applicant or agent) must be included in the application and brought to the administrative review meeting.

3. Administrative reviews are scheduled with program staff who will conduct the review. Applicants or their authorized agent should call the appropriate regional office, according to the county in which the project is located, to schedule a review. The average meeting time is one hour.

4. In the meeting, the application is examined for administrative completeness. Deficiencies will be noted by staff and emailed or faxed to the applicant and authorized agent at the end of the meeting, or shortly after. Administrative deficiencies will cause the application to be deemed incomplete and returned.

   An appointment should be made to resubmit the application. The application is re-examined to ensure all deficiencies are resolved. The application will only be deemed administratively complete when all administrative deficiencies are addressed.

5. If an application is received by mail, courier service, or otherwise submitted without a review meeting, the administrative review will be conducted within 30 days. The applicant and agent will be contacted with the results of the administrative review. If the application is found to be administratively incomplete, it can be retrieved from the regional office or returned by regular mail. If returned by mail, the regional office may require arrangements for return shipping.

6. If the geologic assessment was completed before October 1, 2004 and the site contains "possibly sensitive" features, the assessment must be updated in accordance with the *Instructions to Geologists* (TCEQ-0585 Instructions).

Technical Review

1. When an application is deemed administratively complete, the technical review period begins. The regional office will distribute copies of the application to the identified affected city, county, and groundwater conservation district whose jurisdiction includes the subject site. These entities and the public have 30 days to provide comments on the application to the regional office. All comments received are reviewed by TCEQ.

2. A site assessment is usually conducted as part of the technical review, to evaluate the geologic assessment and observe existing site conditions. The site must be accessible to our staff. The site boundaries should be

clearly marked, features identified in the geologic assessment should be flagged, roadways marked and the alignment of the Sewage Collection System and manholes should be staked at the time the application is submitted. If the site is not marked the application may be returned.

3. We evaluate the application for technical completeness and contact the applicant and agent via Notice of Deficiency (NOD) to request additional information and identify technical deficiencies. There are two deficiency response periods available to the applicant. There are 14 days to resolve deficiencies noted in the first NOD. If a second NOD is issued, there is an additional 14 days to resolve deficiencies. If the response to the second notice is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, the application must be withdrawn or will be denied. Please note that because the technical review is underway, whether the application is withdrawn or denied **the application fee will be forfeited**.
4. The program has 90 calendar days to complete the technical review of the application. If the application is technically adequate, such that it complies with the Edwards Aquifer rules, and is protective of the Edwards Aquifer during and after construction, an approval letter will be issued. Construction or other regulated activity may not begin until an approval is issued.

Mid-Review Modifications

It is important to have final site plans prior to beginning the permitting process with TCEQ to avoid delays.

Occasionally, circumstances arise where you may have significant design and/or site plan changes after your Edwards Aquifer application has been deemed administratively complete by TCEQ. This is considered a "Mid-Review Modification". Mid-Review Modifications may require redistribution of an application that includes the proposed modifications for public comment.

If you are proposing a Mid-Review Modification, two options are available:

- If the technical review has begun your application can be denied/withdrawn, your fees will be forfeited, and the plan will have to be resubmitted.
- TCEQ can continue the technical review of the application as it was submitted, and a modification application can be submitted at a later time.

If the application is denied/withdrawn, the resubmitted application will be subject to the administrative and technical review processes and will be treated as a new application. The application will be redistributed to the affected jurisdictions.

Please contact the regional office if you have questions. If your project is located in Williamson, Travis, or Hays County, contact TCEQ's Austin Regional Office at 512-339-2929. If your project is in Comal, Bexar, Medina, Uvalde, or Kinney County, contact TCEQ's San Antonio Regional Office at 210-490-3096

Please fill out all required fields below and submit with your application.

1. Regulated Entity Name: **YMCA METRO OFFICES**							**2. Regulated Entity No.: RN102840725**		
3. Customer Name: YMCA OF CENTRAL TEXAS							**4. Customer No.: 601387905**		
5. Project Type: **(Please circle/check one)**	New		Modification			Extension		Exception	
6. Plan Type: **(Please circle/check one)**	WPAP	CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: **(Please circle/check one)**	Residential		Non-residential			**8. Site (acres):**		1.0	
9. Application Fee:	650.00		**10. Permanent BMP(s):**			N/A			
11. SCS (Linear Ft.):	453		**12. AST/UST (No. Tanks):**			N/A			
13. County:	WMSN		**14. Watershed:**			ONION BRANCH			

Application Distribution

Instructions: Use the table below to determine the number of applications required. One original and one copy of the application, plus additional copies (as needed) for each affected incorporated city, county, and groundwater conservation district are required. Linear projects or large projects, which cross into multiple jurisdictions, can require additional copies. Refer to the "Texas Groundwater Conservation Districts within the EAPP Boundaries" map found at:

http://www.tceq.texas.gov/assets/public/compliance/field_ops/eapp/EAPP%20GWCD%20map.pdf

For more detailed boundaries, please contact the conservation district directly.

Austin Region			
County:	**Hays**	**Travis**	**Williamson**
Original (1 req.)	___	___	_X_
Region (1 req.)	___	___	_X_
County(ies)	___	___	___
Groundwater Conservation District(s)	___Edwards Aquifer Authority ___Barton Springs/ Edwards Aquifer ___Hays Trinity ___Plum Creek	___Barton Springs/ Edwards Aquifer	N/A
City(ies) Jurisdiction	___Austin ___Buda ___Dripping Springs ___Kyle ___Mountain City ___San Marcos ___Wimberley ___Woodcreek	___Austin ___Bee Cave ___Pflugerville ___Rollingwood ___Round Rock ___Sunset Valley ___West Lake Hills	___Austin ___Cedar Park ___Florence ___Georgetown ___Jerrell ___Leander ___Liberty Hill ___Pflugerville _X_Round Rock

San Antonio Region					
County:	**Bexar**	**Comal**	**Kinney**	**Medina**	**Uvalde**
Original (1 req.)	___	___	___	___	___
Region (1 req.)	___	___	___	___	___
County(ies)	___	___	___	___	___
Groundwater Conservation District(s)	___ Edwards Aquifer Authority ___Trinity-Glen Rose	___Edwards Aquifer Authority	___Kinney	___EAA ___Medina	___EAA ___Uvalde
City(ies) Jurisdiction	___Castle Hills ___Fair Oaks Ranch ___Helotes ___Hill Country Village ___Hollywood Park ___San Antonio (SAWS) ___Shavano Park	___Bulverde ___Fair Oaks Ranch ___Garden Ridge ___New Braunfels ___Schertz	NA	___San Antonio ETJ (SAWS)	NA

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review. TERRY R. HAGOOD
Print Name of Customer/Authorized Agent 
Signature of Customer/Authorized Agent Date 6/12/24

FOR TCEQ INTERNAL USE ONLY				
Date(s)Reviewed:		Date Administratively Complete:		
Received From:		Correct Number of Copies:		
Received By:		Distribution Date:		
EAPP File Number:		Complex:		
Admin. Review(s) (No.):		No. AR Rounds:		
Delinquent Fees (Y/N):		Review Time Spent:		
Lat./Long. Verified:		SOS Customer Verification:		
Agent Authorization Complete/Notarized (Y/N):		Fee Check:	Payable to TCEQ (Y/N):	
Core Data Form Complete (Y/N):			Signed (Y/N):	
Core Data Form Incomplete Nos.:			Less than 90 days old (Y/N):	

General Information Form

Texas Commission on Environmental Quality

For Regulated Activities on the Edwards Aquifer Recharge and Transition Zones and Relating to 30 TAC §213.4(b) & §213.5(b)(2)(A), (B) Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **General Information Form** is hereby submitted for TCEQ review. The application was prepared by:

Print Name of Customer/Agent: Terry R Hagood

Date: 6/12/2024

Signature of Customer/Agent:

Project Information

1. Regulated Entity Name: YMCA METRO OFFICES
2. County: WILLIAMSON
3. Stream Basin: ONION BRANCH
4. Groundwater Conservation District (If applicable): N/A
5. Edwards Aquifer Zone:

   ☒ Recharge Zone
   ☐ Transition Zone

6. Plan Type:

   ☐ WPAP
   ☒ SCS
   ☐ Modification
   ☐ AST
   ☐ UST
   ☐ Exception Request

7. Customer (Applicant):

   Contact Person: JEFF ANDRESEN
   Entity: YMCA OF CENTRAL TEXAS
   Mailing Address: 1812 N. MAYS STREET
   City, State: ROUND ROCK, TX Zip: 78664
   Telephone: 512.615.5555 FAX: _____
   Email Address: RCARLTON@YMCACTX.ORG

8. Agent/Representative (If any):

   Contact Person: TERRY R. HAGOOD
   Entity: HAGOOD ENGINEERING ASSOCIATES, INC
   Mailing Address: 900 E. MAIN STREET
   City, State: ROUND ROCK, TX Zip: 78664
   Telephone: 512.244.1546 FAX: _____
   Email Address: TERRYH@HEAENG.COM

9. Project Location:

   ☒ The project site is located inside the city limits of ROUND ROCK.
   ☐ The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of _____.
   ☒ The project site is not located within any city's limits or ETJ.

10. ☒ The location of the project site is described below. The description provides sufficient detail and clarity so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

    1826 N. MAYS STREET ROUND ROCK, TX 78664

11. ☒ **Attachment A – Road Map**. A road map showing directions to and the location of the project site is attached. The project location and site boundaries are clearly shown on the map.

12. ☒ **Attachment B - USGS / Edwards Recharge Zone Map**. A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zone is attached. The map(s) clearly show:

    ☒ Project site boundaries.
    ☒ USGS Quadrangle Name(s).
    ☒ Boundaries of the Recharge Zone (and Transition Zone, if applicable).
    ☒ Drainage path from the project site to the boundary of the Recharge Zone.

13. ☒ **The TCEQ must be able to inspect the project site or the application will be returned**. Sufficient survey staking is provided on the project to allow TCEQ regional staff to locate the boundaries and alignment of the regulated activities and the geologic or manmade features noted in the Geologic Assessment.

    ☒ Survey staking will be completed by this date: 02-15-23

14. ☒ **Attachment C – Project Description**. Attached at the end of this form is a detailed narrative description of the proposed project. The project description is consistent throughout the application and contains, at a minimum, the following details:

- ☒ Area of the site
- ☒ Offsite areas
- ☒ Impervious cover
- ☒ Permanent BMP(s)
- ☒ Proposed site use
- ☒ Site history
- ☒ Previous development
- ☒ Area(s) to be demolished

15. Existing project site conditions are noted below:

- ☒ Existing commercial site
- ☐ Existing industrial site
- ☐ Existing residential site
- ☐ Existing paved and/or unpaved roads
- ☐ Undeveloped (Cleared)
- ☐ Undeveloped (Undisturbed/Uncleared)
- ☐ Other: _____

Prohibited Activities

16. ☒ I am aware that the following activities are prohibited on the Recharge Zone and are not proposed for this project:

(1) Waste disposal wells regulated under 30 TAC Chapter 331 of this title (relating to Underground Injection Control);

(2) New feedlot/concentrated animal feeding operations, as defined in 30 TAC §213.3;

(3) Land disposal of Class I wastes, as defined in 30 TAC §335.1;

(4) The use of sewage holding tanks as parts of organized collection systems; and

(5) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41(b), (c), and (d) of this title (relating to Types of Municipal Solid Waste Facilities).

(6) New municipal and industrial wastewater discharges into or adjacent to water in the state that would create additional pollutant loading.

17. ☒ I am aware that the following activities are prohibited on the Transition Zone and are not proposed for this project:

(1) Waste disposal wells regulated under 30 TAC Chapter 331 (relating to Underground Injection Control);

(2) Land disposal of Class I wastes, as defined in 30 TAC §335.1; and

(3) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41 (b), (c), and (d) of this title.

Administrative Information

18. The fee for the plan(s) is based on:

- ☐ For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
- ☒ For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
- ☐ For a UST Facility Plan or Modification or an AST Facility Plan or Modification, the total number of tanks or piping systems.
- ☐ A request for an exception to any substantive portion of the regulations related to the protection of water quality.
- ☐ A request for an extension to a previously approved plan.

19. ☒ Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:

- ☒ TCEQ cashier
- ☐ Austin Regional Office (for projects in Hays, Travis, and Williamson Counties)
- ☐ San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties)

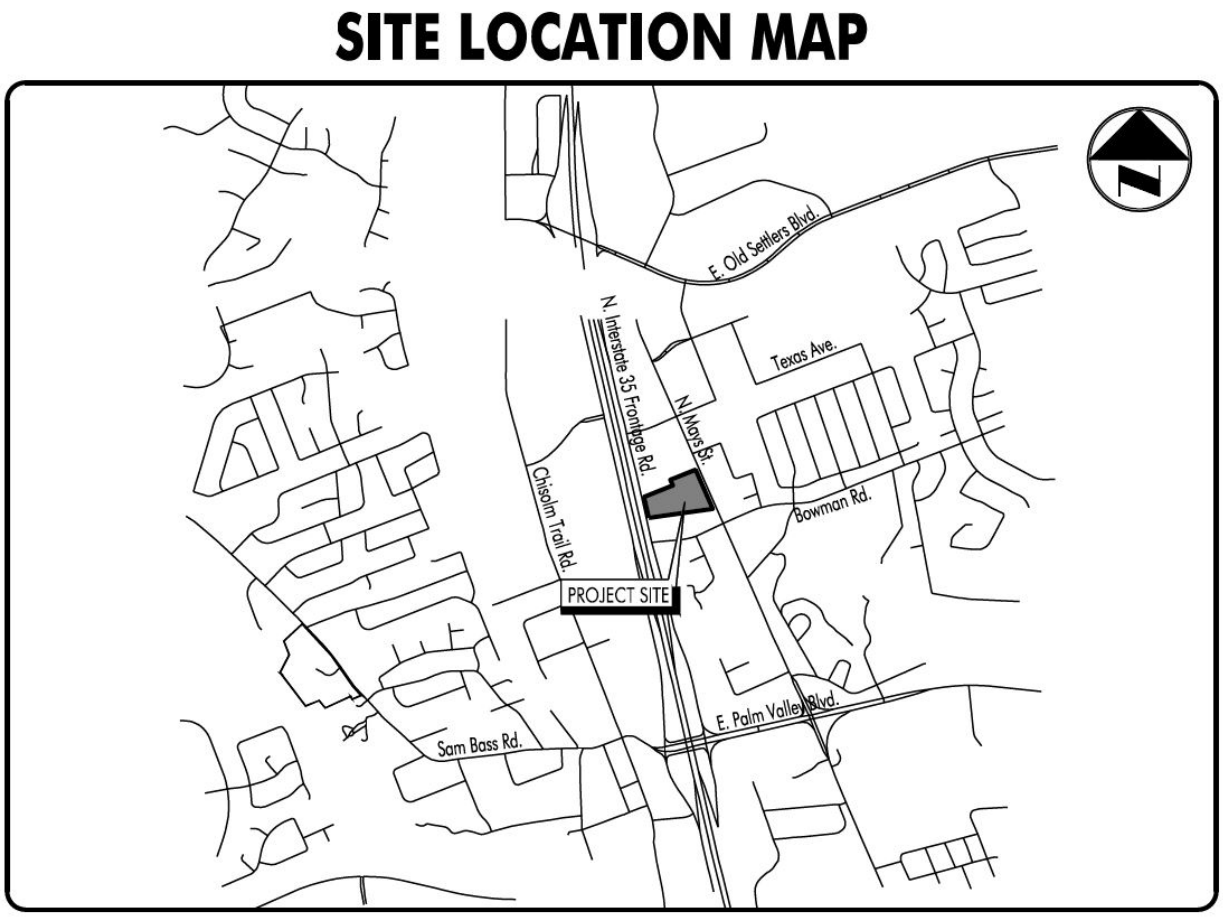
20. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.

21. ☒ No person shall commence any regulated activity until the Edwards Aquifer Protection Plan(s) for the activity has been filed with and approved by the Executive Director.

GENERAL INFORMATION

Attachments to form TCEQ-0587

ATTACHMENT A - Road Map



ATTACHMENT B - USGS / Edwards Recharge Zone Map

See attached map

ATTACHMENT C - Project Description

Please refer to the attached plans for site improvement layout. The site is located within the City of Round Rock's (CoRR) Corporate Limits and the TCEQ Edwards Aquifer Recharge Zone.

This Sewage Collection System (SCS) Application request is for the following:

- Construction of 650 lf of PVC gravity wastewater line to serve a new 7,910 sf single story building. No lift stations are a part of this SCS.

The Project is located at 1826 North Mays. The Property current legal description 1.01 acres out of the AW0130 Curry, D. Survey. During the course of permitting, the property will be platted as part of the adjacent YMCA Addition Subdivision. Once recorded the legal description will be Lot 1, Block A, Replat of Round Rock YMCA Addition. Lot 1 will be 9.730 acres; however, the Project area as defined by the limits of construction is 1.13 acres.

GENERAL INFORMATION

Attachments to form TCEQ-0587

The existing impervious cover (building and parking) was constructed prior to 1985 as a restaurant. Wastewater for the restaurant was provided by an onsite sewage facility (ossf). In 2015, the site was purchased by the YMCA and the building was repurposed for storage of YMCA goods and equipment. The ossf was decommissioned at that time.

An exception to provide a Geologic Assessment was previously made and granted per the attached email from Bo Slone dated 11-28-2023.

The site is located in a commercial urban setting. Surrounding land uses consist of commercial to the north and west, North Mays Street public row to the east, governmental/institutional to the south. The site generally slopes from east to west at approximately 0.8%. No upgradient offsite storm water flows into the site.

The site is served by CoRR Water and Wastewater Utility. Wastewater from the site will be treated at the Brushy Creek Regional Wastewater Treatment Plant.

The Project SCS begins at the connection to an existing CoRR manhole (UID 1436566). (Please refer to the following CoRR GIS System Map.) The ww line downstream of this manhole is an existing 8" line operated and maintained by the City of Round Rock. It is a line, according to City of Round Rock GIS records, that was installed in 1977; prior to the adoption of TCEQ SCS rules. The collection system, WW A, upstream of this manhole is existing and will extend approximately 354 lf north across the Chasco YMCA facilities to CoRR manhole (UID 2152427). The SCS will continue 62 lf through the existing 6" line with a new manhole installed to replace an existing 45-degree bend and cleanout and continue to second new manhole at the point of existing connection to the Chasco YMCA building. This manhole will be end of the Project SCS. From this new manhole, the Project will extend a 356 lf, 6" PVC SDR 26 service lateral to new Metro Office building.

A second collection system line, WW A-1, extends from CoRR manhole (UID 1435587) approximately 36 lf east to an existing manhole which collects service laterals from two (2) separate YMCA buildings. This line is existing.

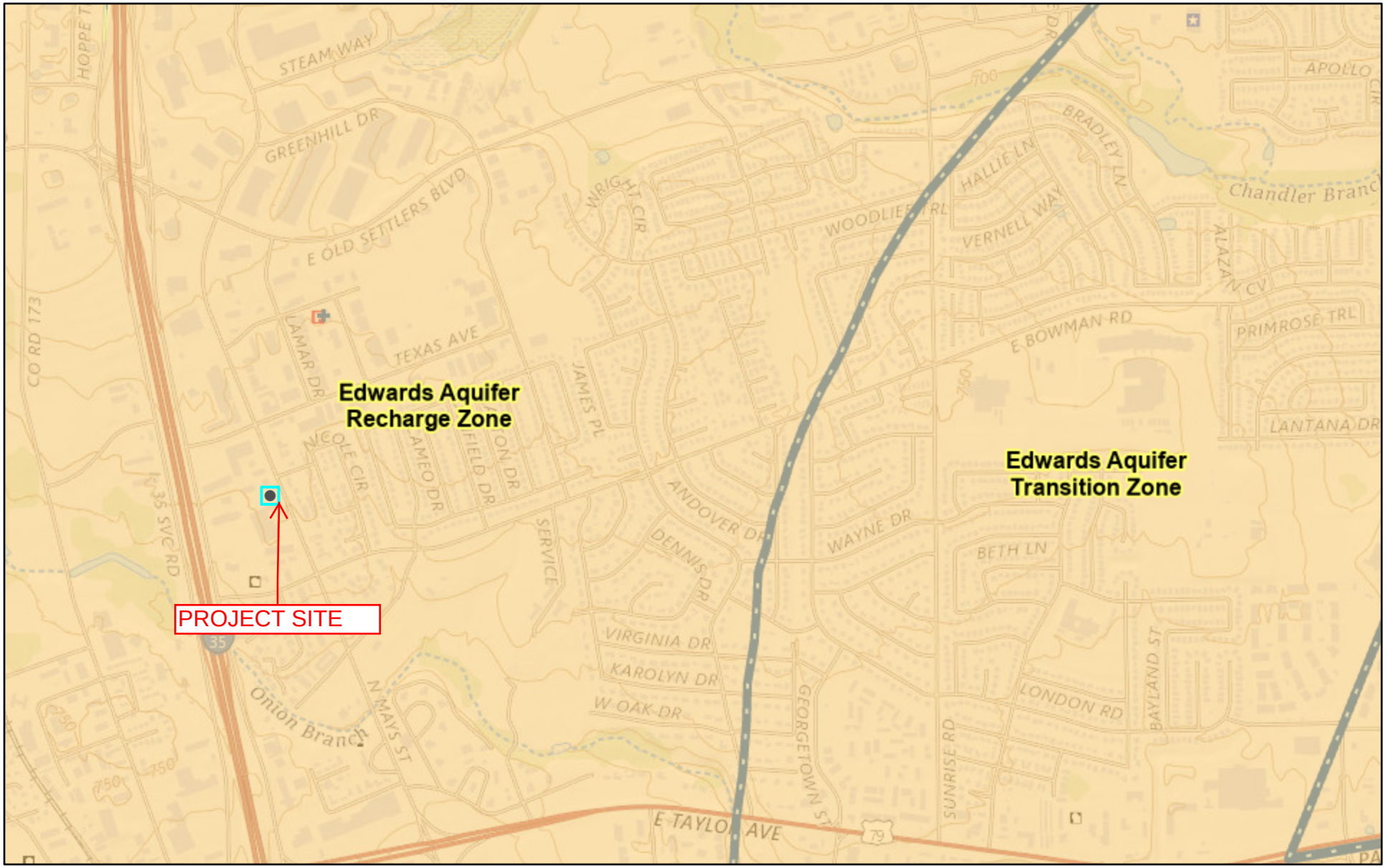
The existing lines WW A and WW A-1 described above were constructed under two separate previously constructed projects:

2007 – Round Rock YMCA

2019 – Chasco YMCA Addition.

As-built plans are attached for both projects. Within the as-built plans, the highlighted wastewater lines were not permitted as sewage collection system lines under TCEQ rules. The Metro Office project is including the lines in this SCS application. The lines have been tested as required by TCEQ and found to be compliant. Copies of the testing report and certification by a Texas registered professional engineer are being held the YMCA of Central Texas Metro office.

Edwards Aquifer Viewer Custom Print



11/14/2023, 4:22:31 PM

1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

Edwards Aquifer Label

Edwards Aquifer Boundary

Edwards Aquifer Boundary central line

City/Place

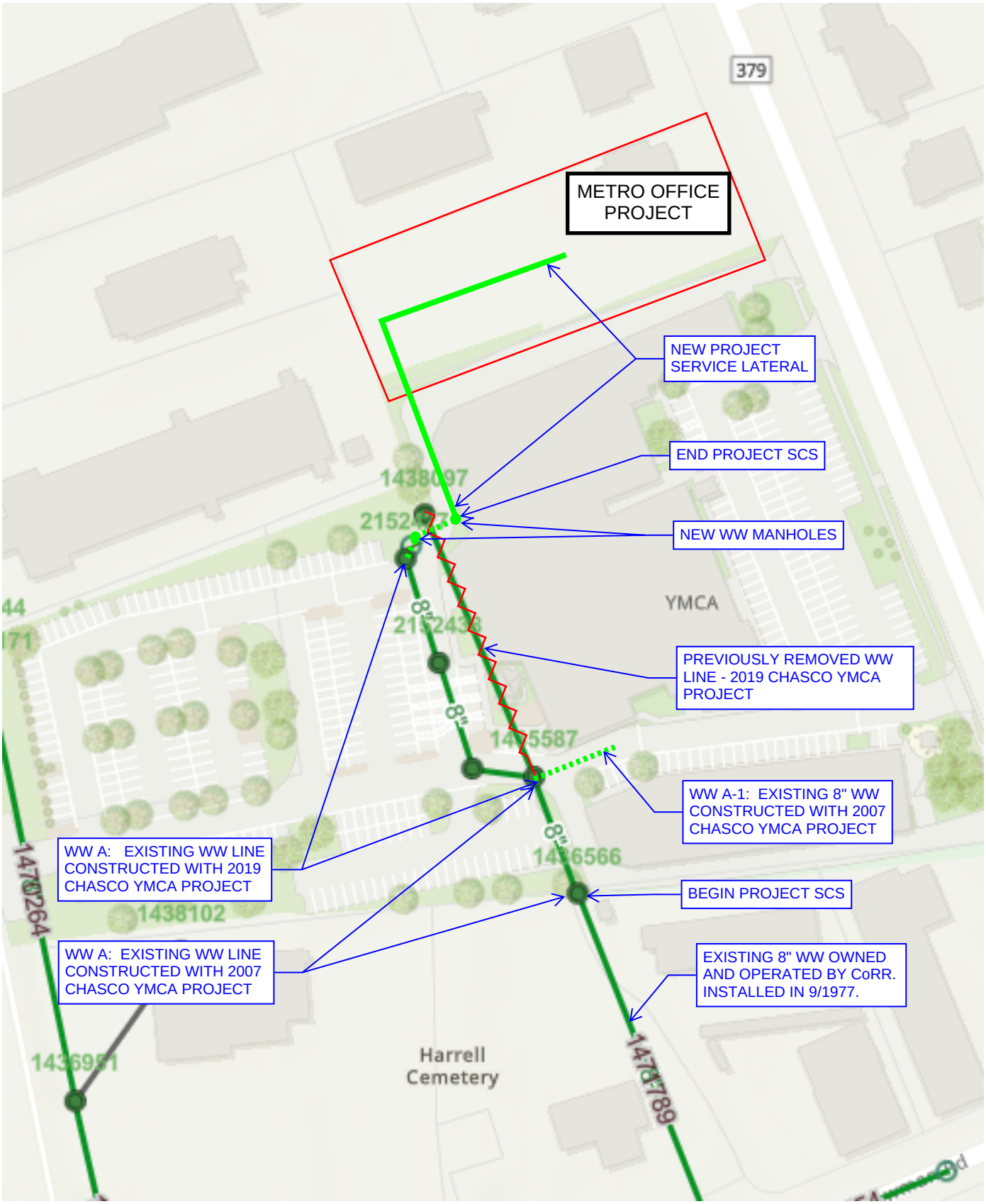
TX Counties

7.5 Minute Quad Grid

TCEQ_EDWARDS_OFFICIAL_MAPS

TCEQ, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National

Web AppBuilder for ArcGIS



YMCA METRO OFFICE
SCS GENERAL LAYOUT

07102BNE

SITE IMPROVEMENTS FOR:

ROUND ROCK Y.M.C.A.

Y.M.C.A. OF GREATER WILLIAMSON COUNTY

1812 NORTH MAYS STREET

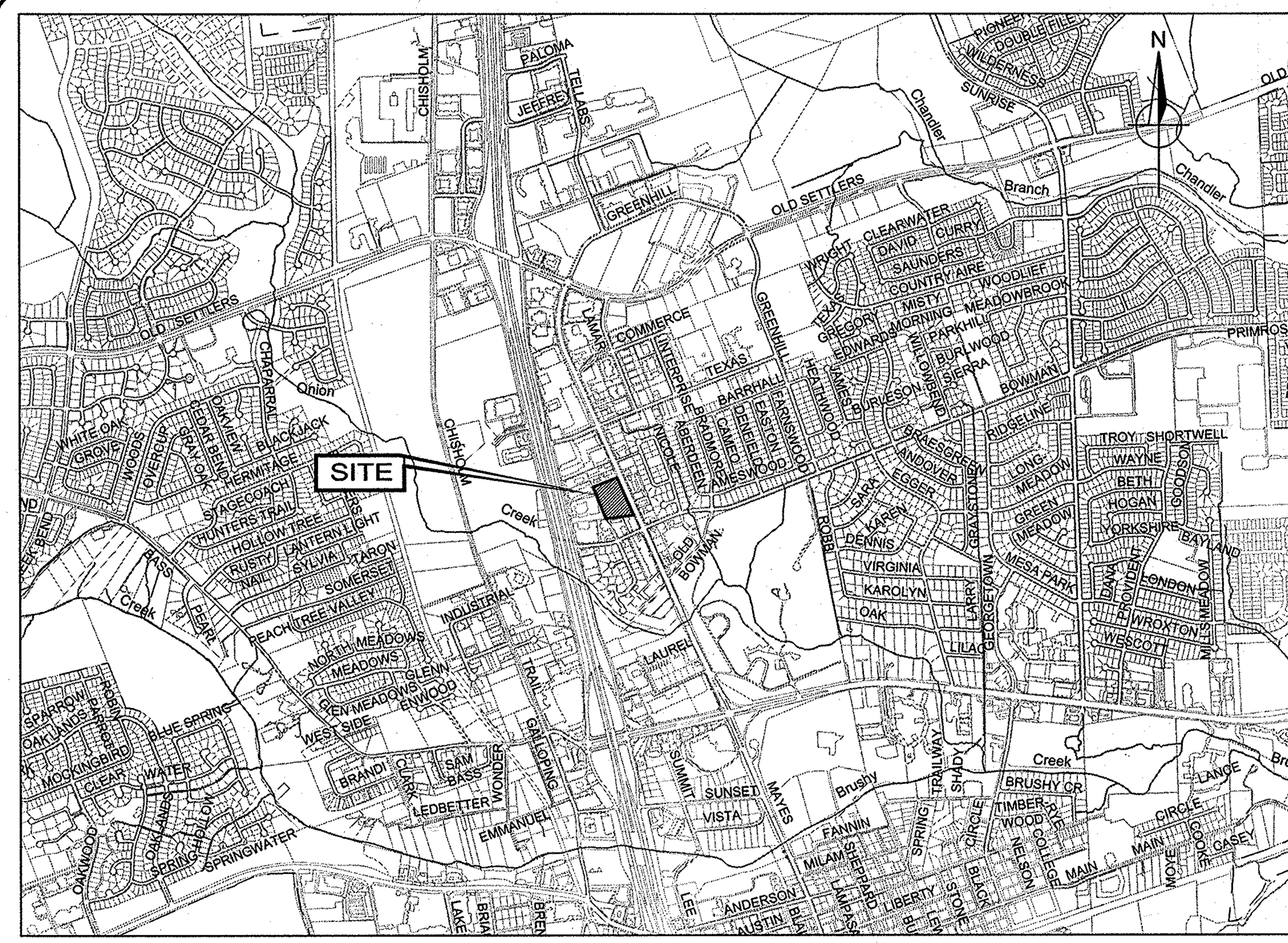
YOUNG MEN'S CHRISTIAN ASSOCIATION OF ROUND ROCK (4.097 ACRES) VOLUME 2115, PAGE 130 ORWCT

CITY OF ROUND ROCK, WILLIAMSON COUNTY, TEXAS

(PHASE 2)

SPECIAL SITE PLAN RELEASE NOTE:

PRIOR TO CONSTRUCTION OF THE 8" WASTEWATER LINE FROM STATION 2+08 TO 2+44, AN UPDATED PROFILE DEPICTING ALL EXISTING CROSSING INFORMATION, INCLUDING GAS, STORM, AND WATERLINES MUST BE SUBMITTED FOR REVIEW AND ACCEPTED BY THE ENGINEERING & DEVELOPMENT SERVICES DEPARTMENT. ABSOLUTELY NO CONSTRUCTION WITHIN THIS WASTEWATER SCOPE CAN PROCEED WITHOUT THE AFOREMENTIONED ACCEPTANCE.



LOCATION MAP

N.T.S.

SHEETS ADDED ⚠1

SHT. NO.	SEQ.	DESCRIPTION
C-13A	14	OVERALL WATER METER PLAN
C-21	24	PLAYGROUND

SHEET LIST

SHT. NO.	SEQ.	DESCRIPTION
C-1	1	COVER SHEET
C-2	2	NOTES SHEET
C-3	3	FINAL PLAT
C-4	4	PHASING PLAN
C-5	5	OVERALL DRAINAGE AND WATER QUALITY AREA MAP
C-6	6	ORIENTATION MAP
C-7	7	EXISTING CONDITIONS
C-8	8	DEMOLITION PLAN
C-9	9	EROSION / SEDIMENTATION CONTROL AND TREE PROTECTION PLAN
C-10	10	DIMENSIONAL CONTROL PLAN
C-11	11	PAVING, GRADING, AND DRAINAGE PLAN
C-12	12	STORM SEWER PLAN
C-13	13	WATER PLAN
C-14	14	WASTEWATER PLAN
C-15	15	DETAILS SHEET 1 OF 6
C-16	16	DETAILS SHEET 2 OF 6
C-17	17	DETAILS SHEET 3 OF 6
C-18	18	DETAILS SHEET 4 OF 6
C-19	19	DETAILS SHEET 5 OF 6
C-20	20	DETAILS SHEET 6 OF 6
LP.1	21	LANDSCAPE PLANTING PLAN
LN.1	22	LANDSCAPE PLANTING NOTES
LD.1	23	LANDSCAPE PLANTING DETAILS

AS-BUILT DISCLAIMER:
These as-built corrections shown hereon partain only to the Natatorium portion of Phase 2 and were made under the direction of Joe Baker, P.E., R.P.L.S. These as-builts are not for distribution to the City as as-built closeout documentation; they are only for the contractor's use as work continues on Phase 2 of the project.

STATE OF TEXAS
JOE M. BAKER
26324
REGISTERED
PROFESSIONAL ENGINEER
[illegible] 04/12/09

Signed: [illegible]
Date: 04/27/09 ALL PHASES COMPLETE

SUBMITTAL: August 13th, 2007.

DESIGN PROFESSIONALS

CIVIL ENGINEER

Antonio A. Prete, P.E.
Baker-Aicklen and Associates, Inc.
507 West Liberty Avenue
Round Rock, Texas 78664
Email: aprete@baker-aicklen.com
Ph: (512) 244-9620
Fax: (512) 244-9623

ARCHITECT

Keith A. Hickman, AIA, REFP
KA Hickman Architects and Interior Designers
1517 East Palm Valley Boulevard
Round Rock, Texas 78664
Email: keith@kaharchitects.com
Ph: (512) 255-9690
Fax: (512) 388-1843

LANDSCAPE ARCHITECT

Mark Baker
SEC Planning
12357 Riata Trace Parkway
Austin, Texas 78727
Email: mbaker@secplanning.com
Ph: (512) 246-7003
Fax: (512) 246-7703

TEXAS ONE CALL SYSTEM
1-800-245-4545

TEXAS ONE CALL SYSTEM — STOP-CALL BEFORE YOU DIG!

UNDER PENALTY OF LAW, THE CONTRACTOR IS REQUIRED TO CONTACT THE TEXAS ONE CALL SYSTEM AT LEAST 48 HOURS BEFORE STARTING EXCAVATION. PROJECTS IN THE CITY OF AUSTIN JURISDICTION USE AUSTIN ONE CALL @ 1-800-344-8377

NOTES:

1. THESE PLANS ARE NOT TO BE CONSIDERED FINAL FOR CONSTRUCTION UNTIL ACCEPTED BY THE CITY / AND, OR THE COUNTY. CHANGES MAY BE REQUIRED PRIOR TO APPROVAL.
2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY, AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER, OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

JOB NO.: 0129-3-010-21

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN ACCEPTING THESE PLANS, THE CITY OF ROUND ROCK MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

PREPARED FOR:

Y.M.C.A. OF GREATER WILLIAMSON COUNTY
1812 NORTH MAYS STREET
P.O. BOX 819
ROUND ROCK, TEXAS 78680

P.O.C.: MR. JEFF ANDRESEN
EMAIL: jandresen@ymcawilliamsonco.org
Ph: (512) 615-5530
Fax: (512) 244-2122

STATE OF TEXAS
COUNTY OF WILLIAMSON

I, Antonio A. Prete, P.E., do hereby certify that any new Public Works and Drainage Improvements described herein, have been designed in compliance with the subdivision and building regulation ordinances and stormwater drainage policy adopted by the City of Round Rock, Texas.

BAKER-AICKLEN & ASSOCIATES, INC.
Engineers • Surveyors • GIS • Planning
507 W. LIBERTY AVE.
ROUND ROCK, TX 78664
(512) 244-9620

STATE OF TEXAS
ANTONIO A. PRETE
93759
LICENSED
PROFESSIONAL ENGINEER

[illegible] 31Oct07

ANTONIO A. PRETE, P.E. # 93759 — DATE

SEALING FOR SHEETS C-1 THRU C-20

REVISIONS:

No.	Date	Revision	ACC.	DATE
/	/	REVISED PARKING SHEETS C-9 THRU C-14, ADDED WATER METER PLAN SHEET C-13A, REVISED STORM SEWER PLAN @ MAIN ENTRY SHEET C-12,	/	/
⚠1	27 FEB 2008	REVISED SIDEWALK @ MAIN ENTRY SHEETS C-9 THRU C-14, REVISED GRADING @ MAIN ENTRY SHEET C-11, ADDED PLAYSCAPE / PLAY-YARD SHEET C-21, ADDED DUMPSTER LOCATIONS SHEETS C-9 THRU C-14	AMN	03/17/2008

ACCEPTED FOR CONSTRUCTION:

Brad Wiseman, AICP — 11/1/07
DEVELOPMENT REVIEW COMMITTEE, CITY OF ROUND ROCK. — Date

[illegible], P.E. — 31OCT07
ENGINEERING AND DEVELOPMENT SERVICES, CITY OF ROUND ROCK. — Date

ROUND ROCK Y.M.C.A. PARKING LOT EXPANSION (PHASE 2)
PROJECT NO.: 0129-3-010

K:\EPDWG\0129-3-010-YMCA\plans-ymca\ymca_cover.dwg, 10/31/2007 9:43:05 AM, plot by: $

GENERAL NOTES:

1. All construction shall be in accordance with the City of Round Rock Standard Specifications Manual.
2. Any existing utilities, pavement, curbs, sidewalks, structures, trees, etc., not planned for destruction or removal that are damaged or removed shall be repaired or replaced at his expense.
3. The Contractor shall verify all depths and locations of existing utilities prior to any construction. Any discrepancies with the construction plans found in the field shall be brought immediately to the attention of the Engineer who shall be responsible for revising the plans are appropriate.
4. Manhole frames, covers, valves, cleanouts, etc. shall be raised to finished grade prior to final paving construction.
5. The Contractor shall give the City of Round Rock 48 hours notice before beginning each phase of construction. Telephone 218-5555 (Engineering and Development Services Department).
6. All areas disturbed or exposed during construction shall be revegetated in accordance with the plans and specifications. Revegetation of all disturbed or exposed areas shall consist of sodding or seeding, at the Contractor's option. However, the type of revegetation must equal or exceed the type of vegetation present before construction.
7. Prior to any construction, the Engineer shall convene a preconstruction conference between the City of Round Rock, himself, the Contractor, other utility companies, any affected parties and any other entity the City or Engineer may require.
8. The Contractor and the Engineer shall keep accurate records of all construction that deviates from the plans. The Engineer shall furnish the City of Round Rock accurate "As-Built" drawings following completion of all construction. These "As-Built" drawings shall meet with the satisfaction of the Engineering and Development Services Department prior to final acceptance.
9. The Round Rock City Council shall not be petitioned for acceptance until all necessary easement documents have been signed and recorded.
10. When construction is being carried out within easements, the Contractor shall confine his work to within the permanent and any temporary easements. Prior to final acceptance, the Contractor shall be responsible for removing all trash and debris within the permanent and temporary easements. Clean-up shall be to the satisfaction of the City Engineer.
11. Prior to any construction, the Contractor shall apply for and secure all proper permits from the appropriate authorities.
12. Available benchmarks (City of Round Rock Datum) that may be utilized for the construction of this project are described as follows:

BENCHMARKS:

TBM 3 ELEVATION 749.60 - SQUARE CUT IN NORTHWEST CORNER OF CONCRETE CURB INLET ON WEST SIDE OF NORTH MAYS. INLET IS BETWEEN THE TWO DRIVEWAYS AT THE NORTHEAST CORNER OF THE YMCA TRACT.

TBM 4 ELEVATION 747.05 - SQUARE CUT IN SOUTHWEST CORNER OF CONCRETE CURB INLET ON WEST SIDE OF NORTH MAYS. INLET IS BETWEEN THE TWO DRIVEWAYS AT THE SOUTHEAST CORNER OF THE YMCA TRACT.

HORIZONTAL CONTROL POINTS			
NUMBER	NORTHING	EASTING	DESCRIPTION
1	10166497.6239	3129929.0109	"X" IN CONCRETE
2	10166142.6274	3130016.4159	80d NAIL SET
3	10166004.1345	3130144.0475	"MAG" NAIL SET

NOTES:

1. THE DISTANCES SHOWN ON THIS DRAWING ARE IN SURFACE UNITS.
2. TO CONVERT TO TEXAS CENTRAL STATE PLANE COORDINATES: MULTIPLY BY THE PROJECT COMBINED SCALE FACTOR OF 0.99988 DO NOT SCALE THE ELEVATIONS
3. CITY OF ROUND ROCK CONTROL POINTS WERE USED FOR HORIZONTAL AND VERTICAL CONTROL GPS #01-013, HAVING GRID VALUES OF NORTHING 10166604.5477, EASTING 3130041.3876, AND ELEV.756.01' HORIZONTAL DATUM: NAD '83 (HARN '93) VERTICAL DATUM: [NAVD '88 (GEOID99)
4. BASIS OF BEARINGS IS GRID NORTH FOR TEXAS STATE PLANE [SOUTH] CENTRAL ZONE.

TRENCH SAFETY NOTES:

1. In accordance with the Laws of the State of Texas and the U. S. Occupational Safety and Health Administration regulations, all trenches over 5 feet in depth in either hard and compact or soft and unstable soil shall be sloped, shored, sheeted, braced or otherwise supported. Furthermore, all trenches less than 5 feet in depth shall also be effectively protected when hazardous ground movement may be expected. Trench safety systems to be utilized for this project shall be the responsibility of the contractor and shall be designed by a professional engineer and accepted by the design engineer and the City of Round Rock.
2. In accordance with the U. S. Occupational Safety and Health Administration regulations, when persons are in trenches 4-feet deep or more, adequate means of exit, such as a ladder or steps, must be provided and located so as to require no more than 25 feet of lateral travel.
3. If trench safety system details were not provided in the plans because trenches were anticipated to be less than 5 feet in depth and during construction it is found that trenches are in fact 5 feet or more in depth or trenches less than 5 feet in depth are in an area where hazardous ground movement is expected, all construction shall cease, the trenched area shall be barricaded and the Engineer notified immediately. Construction shall not resume until appropriate trench safety system details, as designed by a professional engineer, are retained and copies submitted to the City of Round Rock.

STREET AND DRAINAGE NOTES:

1. All testing shall be done by an independent laboratory at the Owner's expense. Any retesting shall be paid for by the Contractor. A City inspector shall be present during all tests. Testing shall be coordinated with the City inspector and he shall be given a minimum of 24 hours notice prior to any testing. Telephone 218-5555 (Inspections).
2. Backfill behind the curb shall be compacted to obtain a minimum of 95% maximum density to within 3" of top of curb. Material used shall be primarily granular with no rocks larger than 6" in the greatest dimension. The remaining 3" shall be clean topsoil free from all clods and suitable for sustaining plant life.
3. Depth of cover for all crossings under pavement including gas, electric, telephone, cable tv, water services, etc., shall be a minimum of 30" below subgrade.
4. Street rights-of-way shall be graded at a slope of 1¼" per foot toward the curb unless otherwise indicated. However, in no case shall the width of right-of-way at 1¼" per foot slope be less than 10 feet unless a specific request for an alternate grading scheme is made to and accepted by the City of Round Rock Engineering and Development Services Department.
5. Barricades built to City of Round Rock standards shall be constructed on all dead-end streets and as necessary during construction to maintain job and public safety.
6. All R.C.P. shall be minimum class III.
7. The subgrade material for the streets shown herein was tested by and the paving sections designed in accordance with the current City of Round Rock design criteria. The paving sections are to be constructed as follows:

Street	Station	Flex. Base Thickness	HMAC Thickness	Lime Stab. Thickness
N/A	N/A	N/A	N/A	N/A

The Geotechnical Engineer shall inspect the subgrade for compliance with the design assumptions made during preparation of the Soils Report. Any adjustments that are required shall be made through revision of the construction plans.

8. Where PI's are over 20, subgrades must be stabilized utilizing a method acceptable to the City Engineer. The Geotechnical Engineer shall recommend an appropriate subgrade stabilization if sulfates are determined to be present.

WATER AND WASTEWATER NOTES:

1. Pipe material for water mains shall be PVC (AWWA C-900, min. class 200), or Ductile Iron (AWWA C-100, min. class 200). Water services (2" or less) shall be polyethylene tubing (black, 200 psi, DR 9).
2. Pipe material for pressure wastewater mains shall be PVC (AWWA C-900, min. class 150), or Ductile Iron (AWWA C-100, min. class 200). Pipe material for gravity wastewater mains and laterals shall be PVC (ASTM D2241 or D3034, max. DR-26), Ductile Iron (AWWA C-100, min. class 200).
3. Unless otherwise accepted by the City Engineer, depth of cover for all lines out of the pavement shall be 42" min., and depth of cover for all lines under pavement shall be a min. of 30" below subgrade.
4. All fire hydrant leads shall be ductile iron pipe (AWWA C-100, min. class 200).
5. All iron pipe and fittings shall be wrapped with minimum 8-mil polyethylene and sealed with duct tape or equal accepted by the City Engineer.
6. The Contractor shall contact the City Inspector at 218-5555 to coordinate utility tie-ins and notify him at least 48 hours prior to connecting to existing lines.
7. All manholes shall be concrete with cast iron ring and cover. All manholes located outside of the pavement shall have bolted covers. Tapping of fiberglass manholes shall not be allowed.
8. The Contractor must obtain a bulk water permit or purchase and install a water meter for all water used during construction. A copy of this permit must be carried at all times by all who use water.
9. Line flushing or any activity using a large quantity of water must be scheduled with the water & wastewater superintendent, telephone 218-5555.
10. The Contractor, at his expense, shall perform sterilization of all potable water lines constructed and shall provide all equipment (including test gauges), supplies (including concentrated chlorine disinfecting material), and necessary labor required for the sterilization procedure. The sterilization procedure shall be monitored by City of Round Rock personnel. Water samples will be collected by the City of Round Rock to verify each treated line has attained an initial chlorine concentration of 50 ppm. Where means of flushing is necessary, the Contractor, at his expense, shall provide flushing devices and remove said devices prior to final acceptance by the City of Round Rock.
11. Sampling taps shall be brought up to 3 feet above grade and shall be easily accessible for City personnel. At the Contractor's request, and in his presence, samples for bacteriological testing will be collected by the City of Round Rock not less than 24 hours after the treated line has been flushed of the concentrated chlorine solution and charged with water approved by the City. The Contractor shall supply a check or money order, payable to the City of Round Rock, to cover the fee charged for testing each water sample. City of Round Rock fee amounts may be obtained by calling the Engineering and Development Services Department at 218-5555.
12. The Contractor, at his expense, shall perform quality testing for all wastewater pipe installed and pressure pipe hydrostatic testing of all water lines constructed and shall provide all equipment (including pumps and gauges), supplies and labor necessary to perform the tests. Quality and pressure testing shall be monitored by City of Round Rock personnel.
13. The Contractor shall coordinate testing with the City of Inspector and provide no less than 24 hours notice prior to performing sterilization, quality testing or pressure testing.
14. The Contractor shall not open or close any valves unless authorized by the City of Round Rock.
15. All valve boxes and covers shall be cast iron.
16. All water service, wastewater service and valve locations shall be appropriately marked as follows:

water service	"W" on top of curb
wastewater service	"S" on top of curb
valve	"V" on face of curb

Tools for marking the curb shall be provided by the Contractor. Other appropriate means of marking service and valve locations shall be provided in areas without curbs. Such means of marking shall be as specified by the Engineer and accepted by the City of Round Rock.

17. Contact City of Round Rock Engineering and Development Services Department at 218-5555 for assistance in obtaining existing water and wastewater locations.
18. The City of Round Rock Fire Department shall be notified 48 hours prior to testing of any building sprinkler piping in order that the Fire Department may monitor such testing.
19. Sand, as described in Specification item 510 pipe, shall not be used as bedding for water and wastewater lines. Acceptable bedding materials are pipe bedding stone, pea gravel and in lieu of sand, a naturally occurring or manufactured stone material conforming to ASTM C33 for stone quality and meeting the following gradation specification:

Sieve Size	Percent Retained By Weight
1/2"	0
3/8"	0-2
#4	40-85
#10	95-100

20. The Contractor is hereby notified that connecting to, shutting down, or terminating existing utility lines may have to occur at off-peak hours. Such hours are usually outside normal working hours and possibly between 12 a.m. and 6 a.m.
21. All wastewater construction shall be in accordance with the Texas Commission on Environmental Quality (TCEQ) Regulations, 30 TAC Chapter 213 and 317, as applicable. Whenever TCEQ and City of Round Rock Specifications conflict, the more stringent shall apply.

TRAFFIC MARKING NOTES:

1. Any methods, street markings and signage necessary for warning motorists, warning pedestrians or diverting traffic during construction shall conform to the Texas Manual of Uniform Traffic Control Devices for Streets and Highways, latest edition.
2. All pavement markings, markers, paint, traffic buttons, traffic controls and signs shall be installed in accordance with the Texas Department of Transportation Standard Specifications for Construction of Highways, Streets and Bridges, and, the Texas Manual of Uniform Traffic Control Devices for Streets and Highways, latest editions.

EROSION AND SEDIMENTATION CONTROL NOTES:

1. Erosion control measures, site work and restoration work shall be in accordance with the City of Round Rock Erosion and Sedimentation Control Ordinance.
2. All slopes shall be sodded or seeded with approved grass, grass mixtures or ground cover suitable to the area and season in which they are applied.
3. Silt fences, rock berms, sedimentation basins and similarly recognized techniques and materials shall be employed during construction to prevent point source sedimentation loading of downstream facilities. Such installation shall be regularly inspected by the City of Round Rock for effectiveness. Additional measures may be required if, in the opinion of the City Engineer, they are warranted.
4. All temporary erosion control measures shall not be removed until final inspection and approval of the project by the Engineer. It shall be the responsibility of the Contractor to maintain all temporary erosion control structures and to remove each structure as approved by the Engineer.
5. All mud, dirt, rocks, debris, etc., spilled, tracked or otherwise deposited on existing paved streets, drives and areas used by the public shall be cleaned up immediately.

PUBLIC IMPROVEMENTS SUMMARY TABLE:

WATER LINE:

Pipe Size	Material	Length
8"	C-900	122
6"	D.I.	143
2"	POLY/COPPER	24

WATER VALVES:

Size	Qty
8"	1
6"	4
4"	1

FIRE HYDRANTS:

Brand	Qty
AMERICAN DARLING	3

WASTEWATER LINE:

Pipe Size	Material	Length
8"	SDR-26, D3034	108'

WASTEWATER MANHOLES:

Size	Qty
4'	1

STORM SEWER LINE:

Pipe Size	Material	Length
NO PUBLIC IMPROVEMENTS		

STORM SEWER MANHOLES:

Size	Qty
NO PUBLIC IMPROVEMENTS	

INLETS:

Size	Qty
NO PUBLIC IMPROVEMENTS	

STREET PAVEMENT HMAC:

Qty
NO PUBLIC IMPROVEMENTS

CURB & GUTTER:

Qty
NO PUBLIC IMPROVEMENTS

SIDEWALK:

Size	Qty
NO PUBLIC IMPROVEMENTS	

CONCRETE VALLEY GUTTERS:

Qty
NO PUBLIC IMPROVEMENTS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER POLLUTION ABATEMENT PLAN GENERAL CONSTRUCTION NOTES

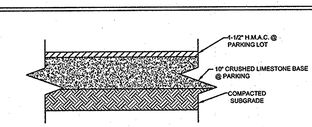
1. Written construction notification must be given to the appropriate TCEQ regional office no later than 48 hours prior to commencement of the regulated activity. Information must include the date on which the regulated activity will commence, the name of the approved plan for the regulated activity, and the name of the prime contractor and the name and telephone number of the contact person.
2. All contractors conducting regulated activities associated with this project must be provided with complete copies of the approved Water Pollution Abatement Plan and the TCEQ letter indicating the specific conditions of its approval. During the course of these regulated activities, the contractors are required to keep on-site copies of the approved plan and approval letter.
3. If any sensitive feature is discovered during construction, all regulated activities near the sensitive feature must be suspended immediately. The appropriate TCEQ regional office must be immediately notified of any sensitive features encountered during construction. The regulated activities near the sensitive feature may not proceed until the TCEQ has reviewed and approved the methods proposed to protect the sensitive feature and the Edwards Aquifer from any potentially adverse impacts to water quality.
4. No temporary aboveground hydrocarbon and hazardous substance storage tank system is installed within 150 feet of a domestic, industrial, irrigation, or public water supply well, or other sensitive feature.
4. Prior to commencement of construction, all temporary erosion and sedimentation (E&S) control measures must be properly selected, installed, and maintained in accordance with the manufacturers specifications and good engineering practices. Controls specified in the temporary storm water section of the approved Edwards Aquifer Protection Plan are required during construction. If inspections indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations. The controls must remain in place until disturbed areas are revegetated and the areas have become permanently stabilized.
5. If sediment escapes the construction site, off_site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).
6. Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake must be provided that can indicate when the sediment occupies 50% of the basin volume.
7. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).
8. All spoils (excavated material) generated from the project site must be stored on-site with proper E&S controls. For storage or disposal of spoils at another site on the Edwards Aquifer Recharge Zone, the owner of the site must receive approval of a water pollution abatement plan for the placement of fill material or mass grading prior to the placement of spoils at the other site.
9. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. Where the initiation of stabilization measures by the 14th day after construction activity temporary or permanently cease is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable. Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within 21 days, temporary stabilization measures do not have to be initiated on that portion of site. In areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonal arid conditions, stabilization measures shall be initiated as soon as practicable.
10. The following records shall be maintained and made available to the TCEQ upon request: the dates when major grading activities occur; the dates when construction activities temporarily or permanently cease on a portion of the site; and the dates when stabilization measures are initiated.
11. The holder of any approved Edward Aquifer protection plan must notify the appropriate regional office in writing and obtain approval from the executive director prior to initiating any of the following:
    - A. any physical or operational modification of any water pollution abatement structure(s), including but not limited to ponds, dams, berms, sewage treatment plants, and diversionary structures;
    - B. any change in the nature or character of the regulated activity from that which was originally approved or a change which would significantly impact the ability of the plan to prevent pollution of the Edwards Aquifer;
    - C. any development of land previously identified as undeveloped in the original water pollution abatement plan.

Austin Regional Office
2800 S. IH 35, Suite 100
Austin, Texas 78704-5712
Phone (512) 339-2929
Fax (512) 339-3795

San Antonio Regional Office
14250 Judson Road
San Antonio, Texas 78233-4480
Phone(210) 490-3096
Fax (210) 545-4329

THESE GENERAL CONSTRUCTION NOTES MUST BE INCLUDED ON THE CONSTRUCTION PLANS PROVIDED TO THE CONTRACTOR AND ALL SUBCONTRACTORS.

TCEQ-0592: 3/15/2007



ASPHALTIC CONCRETE:
THE HOT MIX, HOT-LAID ASPHALTIC CONCRETE USED FOR THE SURFACE COURSE SHOULD CONFORM TO TxDOT STANDARD SPECIFICATIONS, ITEM 340, TYPE D, AND SHOULD BE COMPACTED TO A MINIMUM OF 91% OF TECH MAXIMUM THEORETICAL DENSITY AS DETERMINED BY TxDOT TEX-227-F LABORATORY TESTED PROCEDURES.

CRUSHED LIMESTONE BASE:
BASE MATERIAL SHOULD BE COMPOSED OF CRUSHED LIMESTONE MEETING THE REQUIREMENTS OF TxDOT ITEM 247, GRADE 2, TYPE A. THE BASE SHOULD BE COMPACTED TO 100% OF THE MAXIMUM DENSITY AS DETERMINED BY TxDOT TEST METHOD TEX-113-E AT 2% OF OPTIMUM MOISTURE CONTENT.

FLEXIBLE PAVEMENT SECTION
NTS

AS-BUILT DRAWING

This record drawing has been prepared, in part, based upon information furnished by others. While this information is believed to be reliable, BAKER-AICKLEN cannot assure its accuracy, and thus is not responsible for the accuracy of this record drawing or for any errors or omissions which may have been incorporated into it as a result. Those relying on this record drawing are advised to obtain independent verification of its accuracy before applying it for any purpose.

BAKER-AICKLEN & ASSOCIATES, INC.
Engineers • Surveyors • GIS • Planning
527 W. LIBERTY AVE.
ROUND ROCK, TX 78664
(512) 244-9620

No.	DATE	REVISIONS	RECOM'D

SHEET TITLE: NOTES SHEET

DESIGNED: AAP
DRAWN: ISI
APPROVED: AAP
DWG. NAME: proj_sheet.dwg
LAYOUT: notes
LAYER STATE: notes
DATE: Apr 27, 2009
VIEW:

CLIENT: Y.M.C.A. OF GREATER WILLIAMSON COUNTY

PROJECT: ROUND ROCK Y.M.C.A. PARKING LOT EXPANSION (PHASE 2)

PROJECT No. 0129-3-010-21

SHEET No. C-2

IMAGES:
XREFS: - 24X36vertical_YMCA.dwg * JobSeal.dwg

IMAGES: * ymca_final_plat_as_recorded0001.tif * ymca_final_plat_as_recorded0002.tif
XREFS: * 24X36invertical_YMCA.dwg * JoeSeal.dwg

NOTE: THIS PLAT HAS BEEN SCANNED AND REDUCED TO FIT THE PAGE; THEREFORE IT IS NOT TO SCALE.

CABINET DD

SLIDE 323

Doc.# 2007079067

YMCA OF GREATER WILLIAMSON COUNTY ROUND ROCK BRANCH:

A FINAL PLAT OF 3.209 ACRES AND A REPLAT OF LOT 2 SWEETBRIAR II ADDITION AND CLEARWATER SUBDIVISION

OWNER: YMCA OF GREATER WILLIAMSON COUNTY
P.O. BOX 819
ROUND ROCK, TEXAS 78680

ACREAGE: 7.409 ACRES

SURVEY: DAVID CURRY SURVEY, ABSTRACT NO. 130

NUMBER OF BLOCKS: 1

NUMBER OF LOTS: 2

ZONING: ALL LOTS - C-1 (GENERAL COMMERCIAL)

LINEAR FEET OF NEW STREETS: NONE

DATE: PLANNING & ZONING, AUGUST 15, 2007

DATE: SUBMITTAL, JULY 18, 2007

SURVEYOR: BAKER - AICKLEN & ASSOC., INC.
405 BRUSHY CREEK ROAD
CEDAR PARK, TEXAS 78613
(512) 260-3700

ENGINEER: BAKER - AICKLEN & ASSOC., INC.
507 W. LIBERTY AVENUE
ROUND ROCK, TEXAS 78664
(512) 244-9620

BENCHMARK: TBM 1 ELEVATION 742.77 - SQUARE CUT IN TOP OF THE RETAINING WALL WEST SIDE OF WATER QUALITY POND APPROXIMATELY 2.5' SOUTH OF THE NORTHWEST CORNER.

TBM 2 ELEVATION 745.21 - SQUARE CUT IN THE TOP OF CURB AT THE CENTER OF THE WEST BULLNOSE OF THE NORTHWEST PARKING ISLAND APPROXIMATELY 133' FROM THE NORTHEAST CORNER OF PARKING LOT.

VERTICAL DATUM: NAVD 88(GEOID99) BASED CITY OF ROUND ROCK CONTROL POINT 01-013

NOTES:

1) BUILDING SETBACKS SHALL BE IN ACCORDANCE WITH CHAPTER 11, ZONING, CITY OF ROUND ROCK CODE OF ORDINANCES (1995 EDITION).

2) BASIS OF BEARINGS IS GRID NORTH FOR THE TEXAS STATE PLANE COORDINATE SYSTEM (4203) NAD '83 (HARN '93)

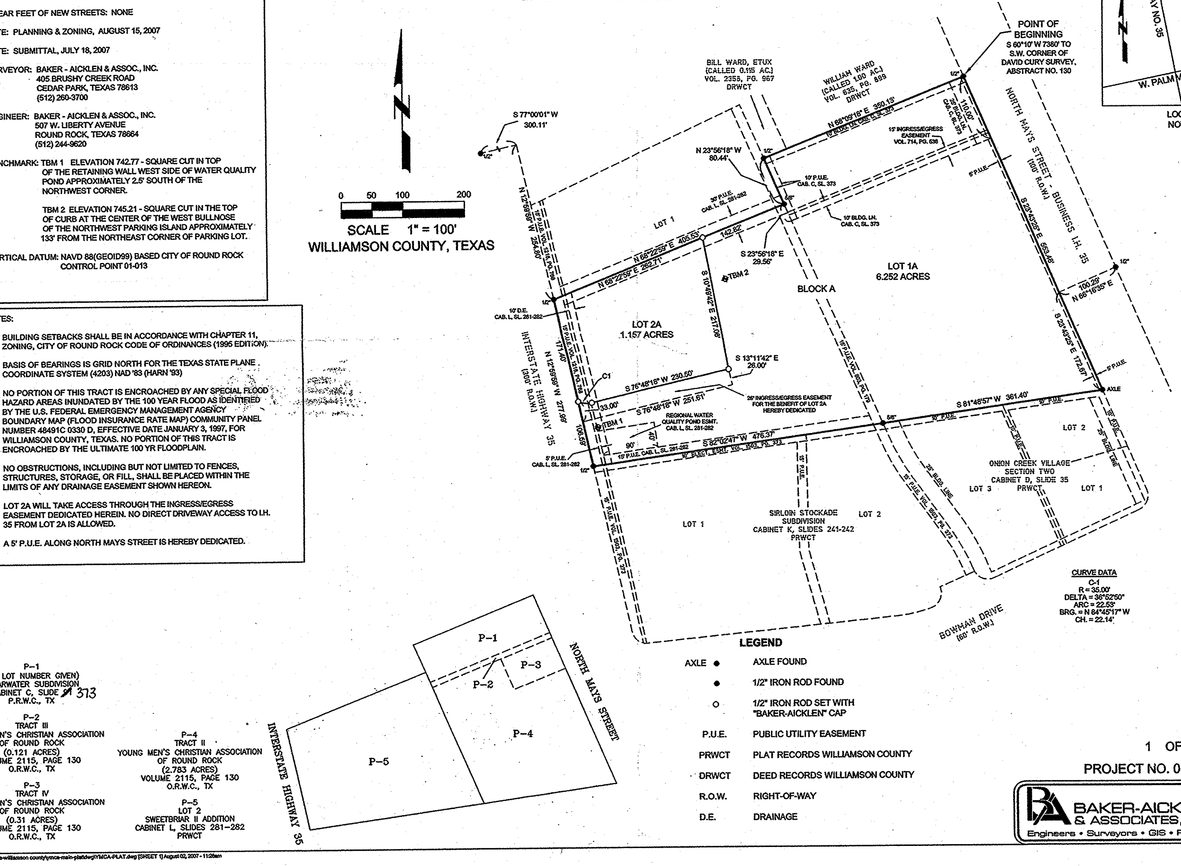
3) NO PORTION OF THIS TRACT IS ENCROACHED BY ANY SPECIAL FLOOD HAZARD AREAS INUNDATED BY THE 100 YEAR FLOOD AS IDENTIFIED BY THE U.S. FEDERAL EMERGENCY MANAGEMENT AGENCY BOUNDARY MAP (FLOOD INSURANCE RATE MAP) COMMUNITY PANEL NUMBER 48491C 0330 D, EFFECTIVE DATE JANUARY 5, 1997, FOR WILLIAMSON COUNTY, TEXAS. NO PORTION OF THIS TRACT IS ENCROACHED BY THE ULTIMATE 100 YR FLOODPLAIN.

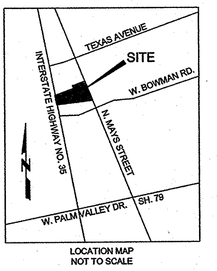
4) NO OBSTRUCTIONS, INCLUDING BUT NOT LIMITED TO FENCES, STRUCTURES, STORAGE, OR FILL, SHALL BE PLACED WITHIN THE LIMITS OF ANY DRAINAGE EASEMENT SHOWN HEREON.

5) LOT 2A WILL TAKE ACCESS THROUGH THE INGRESS/EGRESS EASEMENT DEDICATED HEREIN. NO DIRECT DRIVEWAY ACCESS TO I.H. 35 FROM LOT 2A IS ALLOWED.

6) A 5' P.U.E. ALONG NORTH MAYS STREET IS HEREBY DEDICATED.

SCALE 1" = 100'
WILLIAMSON COUNTY, TEXAS





LOCATION MAP
NOT TO SCALE

P-1
(NO LOT NUMBER GIVEN)
CLEARWATER SUBDIVISION
CABINET C, SLIDE 313
P.R.W.C., TX

P-2
TRACT III
YOUNG MEN'S CHRISTIAN ASSOCIATION OF ROUND ROCK
(0.121 ACRES)
VOLUME 2115, PAGE 130
O.R.W.C., TX

P-3
TRACT IV
YOUNG MEN'S CHRISTIAN ASSOCIATION OF ROUND ROCK
(0.31 ACRES)
VOLUME 2115, PAGE 130
O.R.W.C., TX

P-4
TRACT II
YOUNG MEN'S CHRISTIAN ASSOCIATION OF ROUND ROCK
(2.783 ACRES)
VOLUME 2115, PAGE 130
O.R.W.C., TX

P-5
LOT 2
SWEETBRIAR II ADDITION
CABINET L, SLIDES 281-282
O.R.W.C., TX

LEGEND

AXLE ●	AXLE FOUND
●	1/2" IRON ROD FOUND
○	1/2" IRON ROD SET WITH "BAKER-AICKLEN" CAP
P.U.E.	PUBLIC UTILITY EASEMENT
PRWCT	PLAT RECORDS WILLIAMSON COUNTY
DRWCT	DEED RECORDS WILLIAMSON COUNTY
R.O.W.	RIGHT-OF-WAY
D.E.	DRAINAGE

1 OF 2

PROJECT NO. 0129-2-010-00

BAKER-AICKLEN & ASSOCIATES, INC.
Engineers • Surveyors • GIS • Planning
405 BRUSHY CREEK RD. CEDAR PARK, TX 78613 (512) 260-3700

W:\projects\ymca-williamson county\ymca-main plat\dwg\YMCA-PLAT.dwg [SHEET 1] August 02, 2007 - 11:08am

CABINET DD

SLIDE 324

YMCA OF GREATER WILLIAMSON COUNTY ROUND ROCK BRANCH:

A FINAL PLAT OF 3.209 ACRES AND A REPLAT OF LOT 2 SWEETBRIAR II ADDITION AND CLEARWATER SUBDIVISION

THE STATE OF TEXAS)
COUNTY OF WILLIAMSON)

THAT THE YMCA OF GREATER WILLIAMSON COUNTY, ACTING BY AND THROUGH JEFF ANDRESEN, ITS PRESIDENT AND CHIEF EXECUTIVE OFFICER, AS OWNER OF THE CERTAIN 7.409-ACRE TRACT OF LAND SITUATED IN THE DAVID CURRY SURVEY, ABSTRACT NO. 130, IN WILLIAMSON COUNTY, TEXAS, BEING ALL OF THAT CALLED 4.097-ACRE TRACT OF LAND IN DEED TO YOUNG MEN'S CHRISTIAN ASSOCIATION OF ROUND ROCK OF RECORD IN VOLUME 2115, PAGE 130 OF THE OFFICIAL RECORDS OF WILLIAMSON COUNTY, TEXAS, SAID 4.097-ACRE TRACT BEING COMPRISED OF FOUR (4) TRACTS: TRACT I, A CALLED 0.693-ACRE TRACT, BEING ALL OF THAT CERTAIN CLEARWATER, A SUBDIVISION ACCORDING TO THE PLAT OF RECORD IN CABINET C, SLIDE 373 OF THE PLAT RECORDS OF SAID COUNTY, TRACT II, A CALLED 2.783-ACRE TRACT, TRACT III, A CALLED 0.121-ACRE TRACT AND TRACT IV, A CALLED 0.31-ACRE TRACT, AND ALSO BEING ALL OF LOT 2 (0.317 ACRES), SWEETBRIAR II ADDITION, A SUBDIVISION ACCORDING TO THE PLAT OF RECORD IN CABINET L, SLIDES 281-282 OF SAID PLAT RECORDS, DO HEREBY DEDICATE TO THE PUBLIC FOREVER USE OF THE STREETS, ALLEYS, EASEMENTS AND ALL OTHER LANDS INTENDED FOR PUBLIC DEDICATION AS SHOWN HEREON TO BE KNOWN AS:

~~AS~~ CONVEYED BY DEED UNDER DOCUMENT No. 2063071604 *

YMCA OF GREATER WILLIAMSON COUNTY ROUND ROCK BRANCH:
A FINAL PLAT OF 3.209 ACRES AND A REPLAT OF LOT 2 SWEETBRIAR II ADDITION AND CLEARWATER SUBDIVISION

JEFF ANDRESEN, YMCA OF GREATER WILLIAMSON COUNTY, PRESIDENT / CEO
1815 E. MAYS ST.
ROUND ROCK, TEXAS 78664

THE STATE OF TEXAS)
COUNTY OF WILLIAMSON)

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON THE 01 DAY OF August 2007, BY JEFF ANDRESEN, PRESIDENT / CEO YMCA OF GREATER WILLIAMSON COUNTY.

NOTARY PUBLIC, STATE OF TEXAS
PRINTED NAME Sherry Johnson
MY COMMISSION EXPIRES: 03-20-11

SHERRY JOHNSON Notary Public, State of Texas My Commission Expires 03-20-11

THE STATE OF TEXAS)
COUNTY OF WILLIAMSON)

THAT JP MORGAN CHASE, THE LIEN HOLDER OF THE CERTAIN 3.317-ACRE TRACT OF LAND SITUATED IN THE DAVID CURRY SURVEY, ABSTRACT NO. 130, IN WILLIAMSON COUNTY, TEXAS, BEING ALL OF LOT 2, SWEETBRIAR II ADDITION, A SUBDIVISION ACCORDING TO THE PLAT OF RECORD IN CABINET L, SLIDES 281-282 OF SAID PLAT RECORDS, AND DO FURTHER HEREBY JOIN, APPROVE, AND CONSENT TO THE DEDICATION TO THE PUBLIC FOREVER USE OF THE STREETS, ALLEYS, EASEMENTS AND ALL OTHER LANDS INTENDED FOR PUBLIC DEDICATION AS SHOWN HEREON.

BY: RJ ALLEN, VICE PRESIDENT-AUSTIN REGION
JP MORGAN CHASE
221 W. SIXTH STREET – FLOOR 2
AUSTIN, TEXAS 78701-3400

THE STATE OF TEXAS)
COUNTY OF WILLIAMSON)

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON THE 2 DAY OF August 2007, BY RJ ALLEN, VICE PRESIDENT-AUSTIN REGION, JP MORGAN CHASE.

NOTARY PUBLIC, STATE OF TEXAS
PRINTED NAME Cynthia C. Alvarado
MY COMMISSION EXPIRES: 4-21-2009

CYNTHIA C. ALVARADO Notary Public STATE OF TEXAS My Comm. Exp. 04-21-2009

DESCRIPTION

FOR A 7.409-ACRE TRACT OF LAND SITUATED IN THE DAVID CURRY SURVEY, ABSTRACT NO. 130, IN WILLIAMSON COUNTY, TEXAS, BEING ALL OF THAT CALLED 4.097-ACRE TRACT OF LAND IN DEED TO YOUNG MEN'S CHRISTIAN ASSOCIATION OF ROUND ROCK OF RECORD IN VOLUME 2115, PAGE 130 OF THE OFFICIAL RECORDS OF WILLIAMSON COUNTY, TEXAS, SAID 4.097-ACRE TRACT BEING COMPRISED OF FOUR (4) TRACTS: TRACT I, A CALLED 0.693-ACRE TRACT, BEING ALL OF THAT CERTAIN CLEARWATER, A SUBDIVISION ACCORDING TO THE PLAT OF RECORD IN CABINET C, SLIDE 373 OF THE PLAT RECORDS OF SAID COUNTY, TRACT II, A CALLED 2.783-ACRE TRACT, TRACT III, A CALLED 0.121-ACRE TRACT AND TRACT IV, A CALLED 0.31-ACRE TRACT, SAID 7.409-ACRE TRACT AND ALSO BEING ALL OF LOT 2, SWEETBRIAR II ADDITION, A SUBDIVISION ACCORDING TO THE PLAT OF RECORD IN CABINET L, SLIDES 281-282 OF SAID PLAT RECORDS, IS MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING AT A 1/2" IRON ROD FOUND ON A POINT IN THE WEST RIGHT-OF-WAY LINE OF NORTH MAYS STREET (100'RIGHT-OF-WAY WIDTH), SAID POINT BEING THE NORTHEAST CORNER OF SAID TRACT I ("CLEARWATER" SUBDIVISION), SAME BEING THE NORTHEAST CORNER OF SAID 4.097-ACRE TRACT, FOR THE NORTHEAST CORNER AND THE POINT OF BEGINNING HEREOF;

THENCE WITH THE WEST RIGHT-OF-WAY LINE OF SAID NORTH MAYS STREET, SAME BEING THE EAST BOUNDARY LINES, IN ORDER, OF SAID TRACT I, TRACT III, TRACT IV AND TRACT II, WHICH CONSTITUTE, IN TOTAL, THE EAST BOUNDARY LINE OF SAID 4.097-ACRE TRACT, S 23°43'25" E FOR A DISTANCE OF 553.48 FEET TO AN IRON AXLE FOUND ON A POINT BEING THE NORTHEAST CORNER OF LOT 2, "ONION CREEK VILLAGE, SECTION TWO", A SUBDIVISION ACCORDING TO THE PLAT OF RECORD IN CABINET D, SLIDE 35 OF THE PLAT RECORDS OF WILLIAMSON COUNTY, TEXAS, SAME BEING THE SOUTHEAST CORNER OF SAID 4.097-ACRE TRACT, FOR THE SOUTHEAST CORNER HEREOF;

THENCE DEPARTING THE WEST RIGHT-OF-WAY LINE OF SAID NORTH MAYS STREET WITH THE NORTH BOUNDARY LINE OF SAID "ONION CREEK VILLAGE, SECTION TWO", S 61°46'57" W FOR A DISTANCE OF 361.40 FEET TO A 5/8" IRON ROD FOUND ON A POINT BEING THE NORTHWEST CORNER OF LOT 3 SAID "ONION CREEK VILLAGE, SECTION TWO", SAME BEING THE SOUTHEAST CORNER OF LOT 2, "SWEETBRIAR II ADDITION", A SUBDIVISION ACCORDING TO THE PLAT OF RECORD IN CABINET L, SLIDE 281 OF THE PLAT RECORDS OF WILLIAMSON COUNTY, TEXAS, ALSO BEING THE NORTHEAST CORNER OF LOT 2, "SIRLOIN STOCKADE SUBDIVISION", A SUBDIVISION ACCORDING TO THE PLAT OF RECORD IN CABINET K, SLIDES 241-242 OF THE PLAT RECORDS OF WILLIAMSON COUNTY, TEXAS, SAME BEING THE SOUTHWEST CORNER OF SAID 4.097-ACRE TRACT, FOR THE SOUTHWEST CORNER HEREOF;

THENCE WITH THE SOUTH BOUNDARY LINE OF SAID LOT, SAME BEING THE NORTH BOUNDARY LINE OF SAID SIRLOIN STOCKADE SUBDIVISION, S 82°02'41" W FOR A DISTANCE OF 476.37 FEET TO A 1/2" IRON ROD FOUND ON A POINT IN THE EAST RIGHT-OF-WAY LINE OF INTERSTATE HIGHWAY NO. 35 (300'-R.O.W. WIDTH), SAID POINT BEING THE NORTHWEST CORNER OF SAID SIRLOIN STOCKADE SUBDIVISION, SAME BEING THE SOUTHWEST CORNER OF SAID LOT 2 FOR THE SOUTHWEST CORNER HEREOF;

THENCE WITH THE EAST RIGHT-OF-WAY LINE OF SAID INTERSTATE HIGHWAY NO. 35, SAME BEING THE WEST BOUNDARY LINE OF SAID LOT 2, N 12°05'59" W FOR A DISTANCE OF 277.89 FEET TO A 1/2" IRON ROD FOUND AT THE SOUTHWEST CORNER OF LOT 1 SAID SWEETBRIAR II ADDITION, SAME BEING THE NORTHWEST CORNER OF SAID LOT 2 FOR THE NORTHWEST CORNER HEREOF;

THENCE DEPARTING THE EAST RIGHT-OF-WAY LINE OF SAID INTERSTATE HIGHWAY NO. 35 WITH THE COMMON BOUNDARY LINE BETWEEN SAID LOT 1 AND SAID LOT 2 , N 68°22'50" E FOR A DISTANCE OF 405.53 FEET TO A 5/8" IRON ROD FOUND ON A POINT IN THE WEST BOUNDARY LINE OF SAID CLEARWATER, SAID POINT BEING THE SOUTHEAST CORNER OF SAID LOT 1, SAME BEING THE NORTHEAST CORNER OF SAID LOT 2 FOR AN ANGLE POINT IN THE NORTH BOUNDARY LINE HEREOF;

THENCE WITH THE WEST BOUNDARY LINE OF SAID CLEARWATER, SAME BEING THE EAST BOUNDARY LINE OF SAID LOT 1, N 23°56'18" W FOR A DISTANCE OF 60.44 FEET TO A 1/2" IRON ROD FOUND AT THE NORTHWEST CORNER OF SAID CLEARWATER FOR THE NORTHWEST CORNER HEREOF;

THENCE WITH THE NORTH BOUNDARY LINE OF SAID CLEARWATER, N 68°09'18" E FOR A DISTANCE OF 350.15 FEET TO THE POINT OF BEGINNING HEREOF AND CONTAINING 7.409 ACRES OF LAND.

THE STATE OF TEXAS)
COUNTY OF WILLIAMSON)

THAT I, A. WILLIAM WAELTZ, CERTIFY THAT THE INFORMATION CONTAINED ON THIS PLAT COMPLIES WITH CHAPTER 8, SUBDIVISIONS, CITY OF ROUND ROCK CODE OF ORDINANCES (1995 EDITION), AND THE DESIGN AND CONSTRUCTION STANDARDS ADOPTED BY THE CITY OF ROUND ROCK, TEXAS.

A. WILLIAM WAELTZ, LICENSED PROFESSIONAL ENGINEER NO. 68220 — 8-1-07 DATE

STATE OF TEXAS A. WILLIAM WAELTZ 68220 LICENSED PROFESSIONAL ENGINEER

THE STATE OF TEXAS)
COUNTY OF WILLIAMSON)

THAT I, PARKER J. GRAHAM, DO HEREBY CERTIFY THAT I PREPARED THIS PLAT FROM AN ACTUAL AND ACCURATE ON-THE-GROUND SURVEY OF THE LAND AND THAT THE CORNER MONUMENTS SHOWN THEREON WERE PROPERLY PLACED UNDER MY PERSONAL SUPERVISION, IN ACCORDANCE WITH CHAPTER 8, SUBDIVISIONS, CITY OF ROUND ROCK CODE OF ORDINANCES (1995 EDITION).

PARKER J. GRAHAM, REGISTERED PROFESSIONAL LAND SURVEYOR NO. 5556 — 08/01/2007 DATE

STATE OF TEXAS REGISTERED PARKER GRAHAM 5556 PROFESSIONAL LAND SURVEYOR

THE STATE OF TEXAS)
COUNTY OF WILLIAMSON)

I, NANCY RISTER, CLERK OF THE COUNTY COURT OF SAID COUNTY, DO HEREBY CERTIFY THAT THE FOREGOING INSTRUMENT IN WRITING, WITH ITS CERTIFICATION OF AUTHENTICATION, WAS FILED FOR RECORD IN MY OFFICE ON THE 7TH DAY OF SEPTEMBER 2007, A.D., AT 9:15 O'CLOCK A.M. AND DULY RECORDED ON THE 7TH DAY OF SEPTEMBER 2007, A.D., AT 2:45 O'CLOCK P.M. IN THE PLAT RECORDS OF SAID COUNTY, IN CABINET DD SLIDES 323 AND 324

WITNESS MY HAND AND SEAL OF THE COUNTY COURT OF SAID COUNTY, AT OFFICE IN GEORGETOWN, TEXAS, THE DATE LAST ABOVE WRITTEN.

NANCY RISTER, CLERK, COUNTY COURT
WILLIAMSON COUNTY, TEXAS
BY: DEPUTY WILLIAM WAELTZ

COUNTY COURT OF WILLIAMSON COUNTY, TEXAS

THE STATE OF TEXAS)
COUNTY OF WILLIAMSON)

APPROVED THIS 15TH DAY OF August 2007, BY THE CITY PLANNING AND ZONING COMMISSION OF THE CITY OF ROUND ROCK, TEXAS, AND AUTHORIZED TO BE FILED FOR RECORD BY THE COUNTY CLERK OF WILLIAMSON COUNTY, TEXAS.

AL KOSIC, CHAIRMAN — PETER DRAPER, VICE CHAIR

APPROVED, ON THE 15TH DAY OF August 2007.

KYLE MAXWELL, MAYOR
CITY OF ROUND ROCK, TEXAS

ATTEST: Christine R. Martinez
CHRISTINE R. MARTINEZ, CITY SECRETARY
CITY OF ROUND ROCK, TEXAS

2 OF 2

PROJECT NO. 0129-2-010-00

BAKER-AICKLEN & ASSOCIATES, INC.
Engineers • Surveyors • GIS • Planning
405 BRUSHY CREEK RD. CEDAR PARK, TX 78613 (512) 260-3700

W:\projects\ymca-williamson county\ymca-main plat\dwg\YMCA-PLAT.dwg [SHEET 2] August 01, 2007 - 8:04am

SHEET No. C-3 3 OF 24

PROJECT No. 0129-3-010-21

CLIENT: Y.M.C.A. OF GREATER WILLIAMSON COUNTY

PROJECT: ROUND ROCK Y.M.C.A. PARKING LOT EXPANSION (PHASE 2)

SHEET TITLE: FINAL PLAT

DESIGNED: AAP DWG. NAME: ymca_plat.dwg
DRAWN: ISI LAYOUT: PLAT DATE: Apr 27, 2009
APPROVED: AAP LAYER STATE: PLAT VIEW:

No.	DATE	REVISIONS	RECOM'D

BAKER-AICKLEN & ASSOCIATES, INC.
Engineers • Surveyors • GIS • Planning
507 W. LIBERTY AVE. ROUND ROCK, TX 78664 (512) 244-9620

NOTES:

1. THE TEMPORARY BUILDINGS ARE TO BE USED DURING RENOVATIONS OF EXISTING CLASSROOM FACILITIES.
2. BUILDINGS TO BE PLACED OUTSIDE OF THE DRIP LINE OF THE EXISTING TREES ON SITE.
3. TEMPORARY BUILDING WILL TIE INTO EXISTING UTILITIES FOR WATER, WASTEWATER & ELECTRICITY.
4. TEMPORARY BUILDING WILL BE LESS THAN 15 FEET TALL (TRAILERS ACTUALLY SPECIFIED AT 12 FEET).

LEGEND

YMCA PARKING LOT DETENTION

FIRE LANE

PHASE LINE

SEE SHEET C-10 FOR PARKING TABLE

NOTE:
ON THE YMCA SITE, PRIOR TO PHASE 2 CONSTRUCTION, FIRE LANES, ON THE YMCA SITE SHALL BE CLEARED OF ALL DEBRIS AND TREES SHALL BE TRIMMED BACK AND UP TO A HEIGHT OF 13'-6" TO ALLOW PASSAGE OF FIRE TRUCKS. THIS WORK SHALL INCLUDE RESTRIPING THE FIRE LANES. ADDITIONALLY, NECESSARY PAVEMENT REPAIRS SHALL BE MADE. THIS WORK IS CONSIDERED MAINTENANCE. (TYP)

0 15 30 60
HORIZONTAL SCALE

EXISTING FIRE HYDRANT

WILLIAM WARD (CALLED 1.00 AC.) VOL. 635, PG. 899 DRWCT

N 68°09'18" E 350.13'

LOT 1 SWEETBRIAR II ADDITION CABINET L, SLIDES 281 & 282 DOCUMENT NO. 9505952

30' P.U.E. CAB. L, SL. 281-282

N 68°22'59" E 405.53'

N 68°22'59" E 262.71'

TEMPORARY BUILDINGS SEE NOTES THIS SHEET

PHASE 1: PROPOSED DRIVE AISLE

PHASE 1: PROPOSED PARKING ADDITION

LOT 2B 6.252 ACRES

PHASE 2: PROPOSED BUILDING ADDITION (REFER TO ARCHITECTURAL PLANS)

PHASE 2: PROPOSED PARKING LOT RECONFIGURATION

PHASE 2

MAYS STREET (BUSINESS I.H. 35) (100' RIGHT-OF-WAY WIDTH)

10' D.E. CAB. L, SL. 281-282

5' P.U.E. CAB. L, SL. 281-282

15' P.U.E. VOL. 1216, PG. 768

INTERSTATE 35 (RIGHT-OF-WAY WIDTH VARIES) NORTH BOUND FRONTAGE ROAD

N 12°39'39" W 211.98'

MODULAR CLASSROOM

MODULAR CLASSROOM

ONE STORY WOOD & BRICK BUILDING
(NOTE: THIS BUILDING HAS BEEN DEMOLISHED)

PHASE 1

S 76°48'18" W 230.80'

S 76°48'18" W 251.61'

PROPOSED DETENTION POND

REGIONAL WATER QUALITY POND ESMT. CAB. L, SL. 281-282

15' P.U.E. CAB. L, SL. 281-282

S 82°02'47" W 476.37'

10' ELECT. ESMT. VOL. 1503, PG. 373

CHAIN LINK FENCE

SIRLOIN STOCKADE SUBDIVISION AMENDED CABINET K, SLIDE 338 CORRECTED CABINET L, SLIDE 5

SIRLOIN STOCKADE SUB (CORR AMD), LOT 2 CAPITAL AREA RURAL TRANSPORTATION SYSTEM

15' P.U.E.

SOUTH WING

PHASE 2: EXISTING BUILDING TO BE DEMOLISHED FOR DRIVE AISLE CONSTRUCTION

S 81°48'57" W 361.40'

10' P.U.E.

EXISTING FIRE HYDRANT

AS BUILT DRAWING

NOTE:
PHASE 1 YMCA PARKING LOT DETENTION VOLUME TO BE CONVEYED AND DETAINED ON THE PHASE 1 LOT.

This record drawing has been prepared, in part, upon information furnished by others. While it is believed to be reliable, BAKER-AICKLEN & ASSOCIATES, INC. does not guarantee its accuracy, and shall not be responsible for any use of this record drawing. In no case shall this record drawing be considered a boundary survey. This record drawing is not to be used for verification of as-built accuracy before excavation or for any purpose.

BAKER-AICKLEN & ASSOCIATES, INC.
Engineering • Surveying • GIS • Planning
527 W. LIBERTY AVE.
ROUND ROCK, TX 78664
(512) 244-9523

No.	DATE	REVISIONS	RECOM'D

SHEET TITLE: PHASING PLAN

DESIGNED: AAP | DWG. NAME: ma-PHASING PLAN.dwg | DATE: Apr 23, 2009
DRAWN: AAP | LAYOUT: PHASE | VIEW:
APPROVED: AAP | LAYER STATE: PHASE

CLIENT: Y.M.C.A. OF GREATER WILLIAMSON COUNTY

PROJECT: ROUND ROCK Y.M.C.A. PARKING LOT EXPANSION (PHASE 2)

PROJECT No. 0129-3-010-21

SHEET No. C-4

4 OF 24

IMAGES:
XREFS: "..\2N\3\vertical_YMCA.dwg" "..\JoeSeal.dwg" "ba-survey-demo-YMCA.dwg" "arch-base-YMCA.dwg" "BA_PHASING-ymca.dwg" "ba-phase-YMCA.dwg" "JoeSeal.dwg"

Drainage Table for Proposed Conditions														
Sub-Area Designation	Area (acres)	Total T_c (min.)	C_2	C_{10}	C_{25}	C_{100}	I_2 (in/hr)	I_{10} (in/hr)	I_{25} (in/hr)	I_{100} (in/hr)	Q_2 (cfs)	Q_{10} (cfs)	Q_{25} (cfs)	Q_{100} (cfs)
1	0.68	5.0	0.70	0.78	0.83	0.91	6.48	8.64	9.84	11.88	3.09	4.60	5.57	7.37
2	0.16	5.0	0.64	0.71	0.76	0.84	6.48	8.64	9.84	11.88	0.65	0.96	1.18	1.57
3	0.08	5.0	0.64	0.71	0.76	0.84	6.48	8.64	9.84	11.88	0.34	0.51	0.62	0.83
4	0.09	5.0	0.64	0.71	0.76	0.84	6.48	8.64	9.84	11.88	0.38	0.56	0.68	0.91
5	0.10	5.0	0.64	0.71	0.76	0.84	6.48	8.64	9.84	11.88	0.43	0.64	0.78	1.04
6a	0.53	5.0	0.70	0.78	0.83	0.91	6.48	8.64	9.84	11.88	2.40	3.57	4.32	5.72
6b	0.19	5.0	0.70	0.78	0.83	0.91	6.48	8.64	9.84	11.88	0.88	1.31	1.59	2.10
7	0.48	5.0	0.64	0.71	0.76	0.84	6.48	8.64	9.84	11.88	2.01	2.97	3.62	4.83
8a	0.09	5.0	0.75	0.83	0.88	0.97	6.48	8.64	9.84	11.88	0.46	0.68	0.82	1.08
8b	0.02	5.0	0.75	0.83	0.88	0.97	6.48	8.64	9.84	11.88	0.09	0.13	0.16	0.22
9	0.39	5.0	0.64	0.71	0.76	0.84	6.48	8.64	9.84	11.88	1.62	2.40	2.93	3.91
10	0.21	5.0	0.64	0.71	0.76	0.84	6.48	8.64	9.84	11.88	0.87	1.29	1.57	2.09

LEGEND

PROPOSED DRAINAGE AREA BOUNDARY

EXISTING DRAINAGE AREA BOUNDARY

PARKING LOT DETENTION

1 DRAINAGE AREA

0 15 30 60 HORIZONTAL SCALE

BILL WARD, ETUX (CALLED 0.15 AC.) VOL. 2256, PG. 987 DRWCT

WILLIAM WARD (CALLED 1.00 AC.) VOL. 635, PG. 899 DRWCT

LOT 1 SWEETBRIAR II ADDITION CABINET L, SLIDES 281 & 282 DOCUMENT NO. 9505952

BEST WESTERN MOTEL EDWARDS AQUIFER PROTECTION PLAN # EAPP 95051205

DAMON'S RESTAURANT EDWARDS AQUIFER PROTECTION PLAN # EAPP 96111203

PHASE 1 IMPROVEMENTS

PHASE 2 IMPROVEMENTS

EXISTING PARKING LOT DETENTION
DETENTION VOLUME = 10,013 c.f.
ALLOWABLE RELEASE = 14.33 c.f.s.
PER TOWER SHOPPING CENTER PLANS
PREPARED BY G.W. THOMPSON, ENGINEER

OFFSITE DIRECT RELEASE

PROPOSED STORM SEWER SYSTEM SEE SHEET C-12

4 INSTALL RELOCATED 1" WATER METER. INSTALLATION DETAIL THIS SHEET. EXISTING METER TO REMAIN

3 INSTALL 2" WATER METER FROM CITY MAIN. SEE BUILDING PLUMBING PLANS

1 REMOVE EXISTING 1" WATER METER & RELOCATE ON THIS SHEET. INSTALL NEW 5/8" WATER METER. SEE DETAIL THIS SHEET. EXISTING SERVICE LINE TO REMAIN

NOTE:
POST THE REDEVELOPMENT OF THE EXISTING YMCA LOT (.4097 ac.), THERE WILL BE A REDUCTION IN IMPERVIOUS COVER.
EXISTING IMPERVIOUS COVER = ±90%
PROPOSED IMPERVIOUS COVER = ±86%
AN EXEMPTION REQUEST FOR WATER QUALITY SHALL BE SUBMITTED TO THE TCEQ

PROPOSED STORM SEWER SYSTEM SEE SHEET C-12

I-WING

COVERED CONCRETE WALK

LOT 2 3.317 ACRES (CALLED 3.318 ACRES) SWEETBRIAR II ADDITION CABINET L, SLIDES 281 & 282 PLAT RECORDS WILLIAMSON COUNTY, TEXAS

FIRELANE

MODULAR CLASSROOM 22'x44'

MODULAR CLASSROOM 22'x44'

EXISTING WATER QUALITY POND

PROPOSED DETENTION POND

CHAIN LINK FENCE

SIRLOIN STOCKADE SUBDIVISION AMENDED CABINET K, SLIDE 336 CORRECTED CABINET L, SLIDE 5

SIRLOIN STOCKADE SUB (CORR AMD), LOT 2 CAPITAL AREA RURAL TRANSPORTATION SYSTEM

REGIONAL WATER QUALITY POND FOR THE BENEFIT OF LOT 1 & LOT 2, SWEETBRIAR II ADDITION. WATER QUALITY VOLUME IS BASED UPON CAPTURING THE FIRST FLUSH, (½"), WITHIN THE DRAINAGE AREA.

PHASE 1 DETENTION POND REFER TO THE PHASE 1 PLANS FOR MORE INFORMATION

AREA INLET COLLECTS RUN-OFF FROM THE EXISTING PARKING LOT DETENTION FROM THE YMCA TRACT. THE PROPOSED STORM SEWER LINE BY-PASSES THE STORM WATER RUN-OFF AROUND THE EXISTING WATER QUALITY POND.

PROPOSED STORM SEWER SYSTEM SEE SHEET C-12

AS-BUILT DRAWING

This record drawing has been prepared, in part, based upon information furnished by others. While this information is believed to be reliable BAKER-AICKLEN cannot assure the accuracy. BAKER-AICKLEN is not responsible for any deviation of this record drawing or for any errors or omissions which may have been incorporated into it as a result. Those using this record document are advised to obtain independent verification of its accuracy before applying it for any purpose.

LOT 2

IMAGES:
XREFS: - tbs-survey-demo-YMCA.dwg * arch-base-YMCA.dwg * BA_DMAP-ymca.dwg * ba-pbase-YMCA.dwg * 24X36mmterial_YMCA.dwg * JoeSeal.dwg * JoeSeal.dwg

BAKER-AICKLEN & ASSOCIATES, INC.
Engineers • Surveyors • GIS • Planning
527 W. LIBERTY AVE.
ROUND ROCK, TX 78664
(512) 244-9633

No.	DATE	REVISIONS	RECOM'D

SHEET TITLE: OVERALL DRAINAGE AND WATER QUALITY AREA MAP

DESIGNED: AAP | DWG. NAME: ymca_DMAP.dwg | DATE: Apr 27, 2009
DRAWN: EB | LAYOUT: DMAP | VIEW:
APPROVED: AAP | LAYER STATE: DMAP

CLIENT: Y.M.C.A. OF GREATER WILLIAMSON COUNTY

PROJECT: ROUND ROCK Y.M.C.A. PARKING LOT EXPANSION (PHASE 2)

PROJECT No. 0129-3-010-21

SHEET No. C-5

5 OF 24

AW0130 CURRY, D. SURVEY
1.070 ac.
AR&JR REAL ESTATE HOLDINGS LP
LAND USE TYPE: COMMERCIAL
ZONING: GENERAL COMMERCIAL

AW0130 CURRY, D. SUR., MH SERIAL # GBSGUMT011828A, TITLE # 62225690, LABEL # UNK,
0.305 ac.
WARDS, GENERAL STORE
LAND USE TYPE: COMMERCIAL
ZONING: GENERAL COMMERCIAL

AW0130 CURRY, D. SUR.
0.124 ac.
WARD, BILL & ROMONA
LAND USE TYPE: COMMERCIAL
ZONING: GENERAL COMMERCIAL

AW0130 CURRY, D. SUR., MH SERIAL # GBSGUMT011828A, TITLE # 62225690, LABEL # UNK
0.194 ac.
WARD, BILL & ROMONA
LAND USE TYPE: COMMERCIAL
ZONING: GENERAL COMMERCIAL

TRIANGLE SEC 1 REVISED, BLOCK A, LOT 2
4.479 ac.
TRIANGLE CENTER I LTD
LAND USE TYPE: COMMERCIAL
ZONING: GENERAL COMMERCIAL

AW0130 CURRY, D. SURVEY
0.795 ac.
BUCK, DON C
LAND USE TYPE: COMMERCIAL
ZONING: GENERAL COMMERCIAL

AW0130 CURRY, D. SURVEY
0.569 ac.
BRYAN, DELFINO & LEONOR
LAND USE TYPE: COMMERCIAL
ZONING: GENERAL COMMERCIAL

AW0130 CURRY, D. SURVEY
0.480 ac.
THOMAS, DOUGLAS G
LAND USE TYPE: COMMERCIAL
ZONING: GENERAL COMMERCIAL

HANROCK, LOT 1
1.138 ac.
GAITAN SHARON &
LAND USE TYPE: COMMERCIAL
ZONING: GENERAL COMMERCIAL

AW0130 CURRY, D. SURVEY
0.391 ac.
WARD, BILL & ROMONA
LAND USE TYPE: COMMERCIAL
ZONING: GENERAL COMMERCIAL

CLEARWATER
0.862 ac.
YOUNG MENS CHRISTIAN ASSOC OF ROUND ROCK
LAND USE TYPE: GOVERNMENT/INSTITUTIONAL
ZONING: GENERAL COMMERCIAL

NORTH MAYS ST.

AW0130 CURRY, D. SURVEY
1.104 ac.
PREMIER AUTOBODY INC
LAND USE TYPE: COMMERCIAL
ZONING: GENERAL COMMERCIAL

AW0130 CURRY, D. SURVEY
0.401 ac.
KILLION AUTO SALES
LAND USE TYPE: COMMERCIAL
ZONING: GENERAL COMMERCIAL

SWEETBRIAR II ADDITION, LOT 1
1.569 ac.
PRIME, LODGING LLC
LAND USE TYPE: COMMERCIAL
ZONING: GENERAL COMMERCIAL

AW0130 CURRY, D. SUR., 'TOWER PLAZA' SHOPPING CENTER
3.222 ac.
YOUNG MENS CHRISTIAN ASSOC OF ROUND ROCK
LAND USE TYPE: COMMERCIAL
ZONING: GENERAL COMMERCIAL

AW0130 CURRY, D. SURVEY
0.491 ac.
HOOVER TWIGGS INC ETAL
LAND USE TYPE: COMMERCIAL
ZONING: GENERAL COMMERCIAL

AW0130 CURRY, D. SURVEY
0.378 ac.
STEVEN A MILMAN DDS
LAND USE TYPE: COMMERCIAL
ZONING: GENERAL COMMERCIAL

AW0130 CURRY, D. SURVEY
0.578 ac.
CABAHA LTD
LAND USE TYPE: OFFICE
ZONING: GENERAL COMMERCIAL

SWEETBRIAR II ADDITION, LOT 2
3.203 ac.
YMCA OF GREATER WILLIAMSON COUNTY
LAND USE TYPE: GOVERNMENT/INSTITUTIONAL
ZONING: GENERAL COMMERCIAL

I.H. 35 FRONTAGE ROAD SOUTH
I.H. 35 MAIN LANES SOUTH
I.H. 35 MAIN LANES NORTH
I.H. 35 FRONTAGE ROAD NORTH

ONION CREEK VILLAGE SEC 2, BLOCK A, LOT 1-2
0.746 ac.
WEY, YUH JANN & YECU CHYN
LAND USE TYPE: COMMERCIAL
ZONING: GENERAL COMMERCIAL

ONION CREEK VILLAGE SEC 2, BLOCK A, LOT 3
1.123 ac.
BJI INC
LAND USE TYPE: COMMERCIAL
ZONING: GENERAL COMMERCIAL

SIRLOIN STOCKADE SUB (CORR AMD), LOT 2
1.278 ac.
CAPITAL AREA RURAL TRANSPORTATION SYSTEM
LAND USE TYPE: GOVERNMENT/INSTITUTIONAL
ZONING: GENERAL COMMERCIAL

SIRLOIN STOCKADE SUB (CORR AMD), LOT 1 PT
2.172 ac.
CAPITAL AREA RURAL TRANSPORTATION SYSTEM
LAND USE TYPE: COMMERCIAL
ZONING: GENERAL COMMERCIAL

SIRLOIN STOCKADE SUB (CORR AMD), LOT 1 PT (CEMETARY)
0.121 ac.
FORDTEX, INVESTMENTS INC
LAND USE TYPE: UNDEVELOPED
ZONING: GENERAL COMMERCIAL

EAST BOWMAN RD

WEST BOWMAN RD

N

0 25 50 100
HORIZONTAL SCALE

BAKER-AICKLEN & ASSOCIATES, INC.
Engineers • Surveyors • GIS • Planning
527 W. LIBERTY AVE.
ROUND ROCK, TX 78664
(512) 244-5623

No.	DATE	REVISIONS	RECOM'D

SHEET TITLE: ORIENTATION MAP

DESIGNED: AAP | DWG. NAME: ytca_orientation_esub.dwg | DATE: Apr 27, 2009
DRAWN: ISI | LAYOUT: orient | VIEW:
APPROVED: AAP | LAYER STATE: orient

CLIENT: Y.M.C.A. OF GREATER WILLIAMSON COUNTY

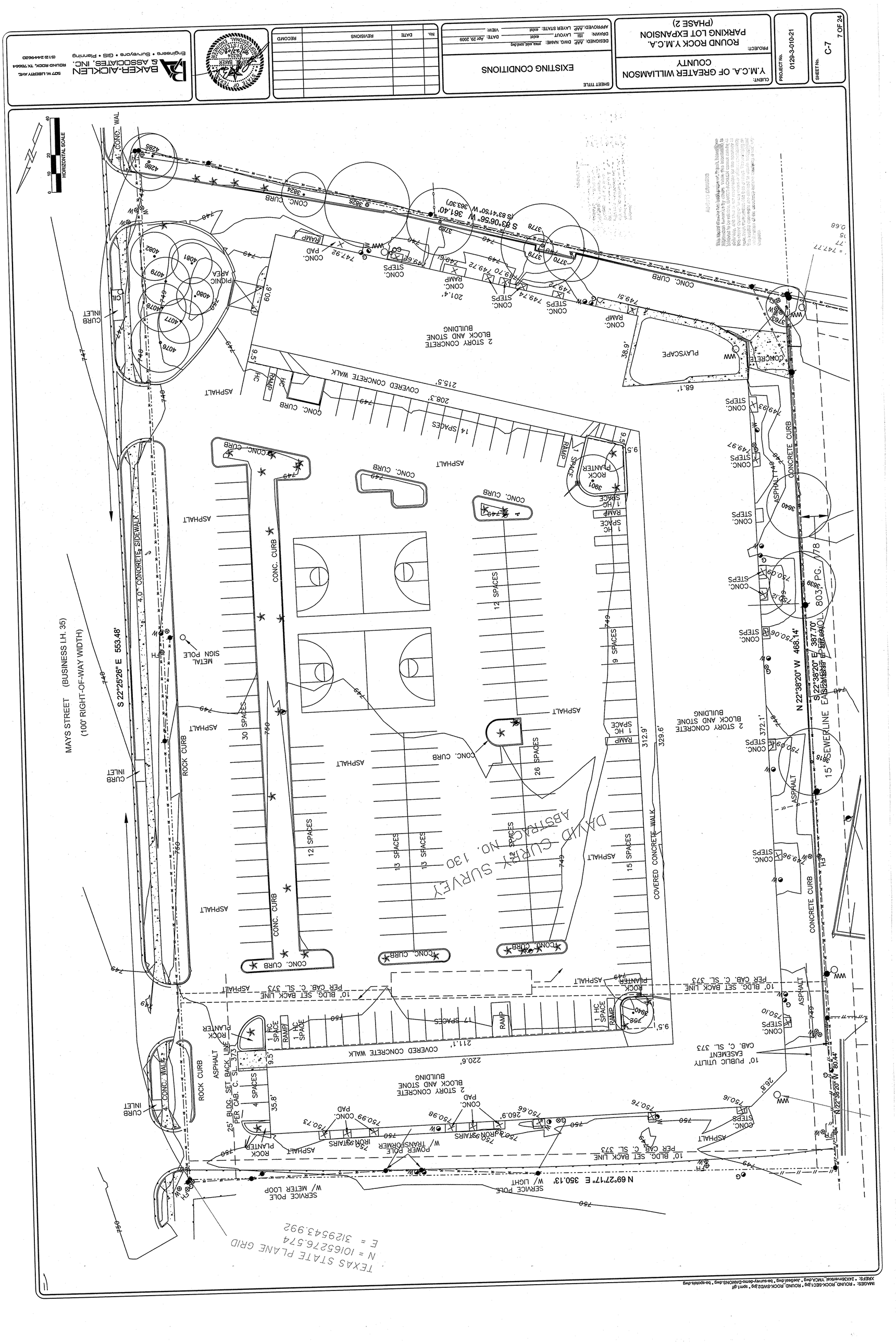
PROJECT: ROUND ROCK Y.M.C.A. PARKING LOT EXPANSION (PHASE 2)

PROJECT No. 0129-3-010-21

SHEET No. C-6

6 OF 24

IMAGES:
XREFS: * 24X36vertical_YMCA.dwg * JoeSeal.dwg * gis-orientation.dwg



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507 W. LIBERTY AVE.
ROUND ROCK, TX 78664
(512) 244-9620

No.	DATE	REVISIONS	RECOMD

SHEET TITLE: EXISTING CONDITIONS

DESIGNED: AAP
DRAWN: ISI
APPROVED: AAP

DWG. NAME: zoning_exist_cond.dwg
LAYOUT: exist
LAYER STATE: exist
VIEW:

DATE: Apr 29, 2009

CLIENT: Y.M.C.A. OF GREATER WILLIAMSON COUNTY

PROJECT: ROUND ROCK Y.M.C.A. PARKING LOT EXPANSION (PHASE 2)

PROJECT No. 0129-3-010-21

SHEET No. C-7

7 OF 24

IMAGES: * ROUND_ROCK-SEC1.jpg * ROUND_ROCK-SW2.jpg * spent.gif
XREFS: * 24X36Interior_TMCA.dwg * Joebeal.dwg * be-survey-demo-CAMONS.dwg * be-topotie.dwg

NOTE:
ALL EXISTING PAVEMENT WHICH IS TO REMAIN SHALL BE SEAL COATED. PARKING LOT & FIRE LANE INCLUDED.

HORIZONTAL SCALE 0 10 20 40

TBM 3

TBM 4

PT 1

PT 3

S 23°43'25" E 553.48'

REMOVE ± 2,685 sf OF ASPHALT

SAWCUT LINE FOR ASPHALT REMOVAL

REMOVE ±180 sf OF ASPHALT

REMOVE ±304 lf OF CURB AND GUTTER SAWCUT ± 1 FROM LIP OF GUTTER

REMOVE ±180 sf OF ASPHALT

REMOVE ±1,025 sf OF ASPHALT

SAWCUT LINE FOR ASPHALT REMOVAL

REMOVE ± 2,815 sf OF ASPHALT

SAWCUT LINE FOR ASPHALT REMOVAL

REMOVE ± 5,000 sf OF ASPHALT

LIGHT POLE TO BE RELOCATED RE: MEP PLANS FOR LOCATION

REMOVE ±745 lf OF CURB AND GUTTER SAWCUT ± 1 FROM LIP OF GUTTER

REMOVE ±86 lf OF CURB AND GUTTER

SAWCUT LINE FOR ASPHALT REMOVAL

SAWCUT LINE FOR ASPHALT REMOVAL

REMOVE ±86 lf OF CURB AND GUTTER

REMOVE ±60 lf OF CURB AND GUTTER

REMOVE ±105 lf OF CURB AND GUTTER

REMOVE ±80 lf OF CURB AND GUTTER

LIGHT POLE TO BE RELOCATED RE: MEP PLANS FOR LOCATION

LIGHT POLE TO BE RELOCATED RE: MEP PLANS FOR LOCATION

REMOVE ± 50,425 sf OF ASPHALT

SAWCUT LINE FOR ASPHALT REMOVAL

PLANTER TO BE REMOVED

TREE TO BE REMOVED

REMOVE INLET CAP STORM SEWER LINE

PLANTER TO BE REMOVED

TREE TO BE REMOVED

REMOVE ± 10,045 sf OF ASPHALT

SAWCUT LINE FOR ASPHALT REMOVAL

1. REMOVE EXISTING 1" WATER METER & RELOCATE ON SITE INSTALL NEW 5/8" WATER METER SEE DETAIL THIS SHEET EXISTING SERVICE LINE TO REMAIN

2. REMOVE EXISTING 1 1/2" WATER METER & RELOCATE ON SITE INSTALL NEW 5/8" WATER METER SEE DETAIL THIS SHEET EXISTING SERVICE LINE TO REMAIN

3. INSTALL RELOCATED WATER METER FROM CDC RE: INSTALLATION DETAIL THIS SHEET EXISTING SERVICE LINE TO REMAIN

WILLIAM WARD (CALLED 1.60 AC.) VOL. 635, PG. 899 DRWCT

N 68°09'18" E 350.13'

10' BLDG. LN. CAB. C, SL. 373

10' P.U.E. CAB. C, SL. 373

N 23°56'18" W 80.44'

S 81°48'57" W 361.40'

10' P.U.E.

10' P.U.E.

10' P.U.E.

10' P.U.E.

RAMP

IRON STAIRS

IRON STAIRS

COVERED CONCRETE WALK

2 STORY CONCRETE BLOCK AND STONE BUILDING FF = ± 750.01

2 STORY CONCRETE BLOCK AND STONE BUILDING FF = ± 749.7

2 STORY CONCRETE BLOCK AND STONE BUILDING FF = ± 750.0

SOUTH WING

PLAYSCAPE 8459 sf

PLAYGROUND 4000 sf

CDC

BUILDING TO BE REMOVED RE: ARCHITCTURAL PLANS

CONCRETE PAVEMENT TO BE REMOVED

GAS TO BE RELOCATED

CONSTRUCT 19LF OF CURB / RETAINING STRUCTURE HEIGHT VARIES TO MATCH LANDSCAPE ISLAND

±342' OF CURB TO BE REMOVED

SAWCUT MEET AND MATCH EXISTING SIDEWALK

REPLACE 5'x5' SECTION OF SIDEWALK TO RESOLVE DRAINAGE ISSUE

INSTALL 19 LF OF HANDRAIL ALONG EXISTING CURB.

ADD ADA PARKING SIGN

PARKING STRIPING

ADD ACCESSIBLE AISLE STRIPING

CONSTRUCT 2' BUFF. CURB RAMP WITH FLARES MEET AND MATCH EXISTING SIDEWALK

FIRELANE

FIRE LANE

ICE

VOL. 803, PG. 179

AS-BUILT DRAWING

This record drawing has been prepared, in part, based upon information furnished by others. While this information is believed to be reliable, BAKER-AICKLEN cannot assure its accuracy, and thus is not responsible for the accuracy of this record drawing or for any errors or omissions which may have been incorporated into it as a result. Those relying on this record drawing are advised to obtain independent verification of its accuracy before applying it for any purpose.

LEGEND

- TREE TO BE REMOVED
- PAVEMENT REMOVAL
- SAWCUT AND CURB REMOVAL

NOTE:

1. ANY DIRT, MUD, DEBRIS, ETC., SPILLED TRACKED OR OTHERWISE DEPOSITED ON EXISTING PAVED STREETS SHALL BE IMMEDIATELY CLEANED UP.
2. THIS DEMOLITION PLAN IS A SCHEMATIC AND INDICATES THE GENERAL SCOPE OF THE DEMOLITION. THE CONTRACTOR SHALL MEET WITH THE OWNER AND ENGINEER ON-SITE TO VERIFY THE EXACT EXTENT OF THE DEMOLITION REQUIRED. THE CONTRACTOR SHALL TAKE PRECAUTIONS NOT TO DAMAGE EXISTING CONSTRUCTION THAT IS TO REMAIN. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGES, WHICH MAYBE OCCASIONED BY THE CONTRACTOR. THOSE ITEMS SHALL BE REPAIRED OR REPLACED TO LIKE-NEW CONSTRUCTION AT NO COST TO OWNER.
3. REFER TO SHEET C-9 FOR TREE LIST.

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ROUND ROCK, TX 78664
(512) 244-9620

No.	DATE	REVISIONS	RECMD

SHEET TITLE: DEMOLITION PLAN

DESIGNED: AAP DWG. NAME: 1205 demo.dwg DATE: Apr 23, 2009
DRAWN: SB LAYOUT: demo VIEW:
APPROVED: AAP LAYER STATE: demo

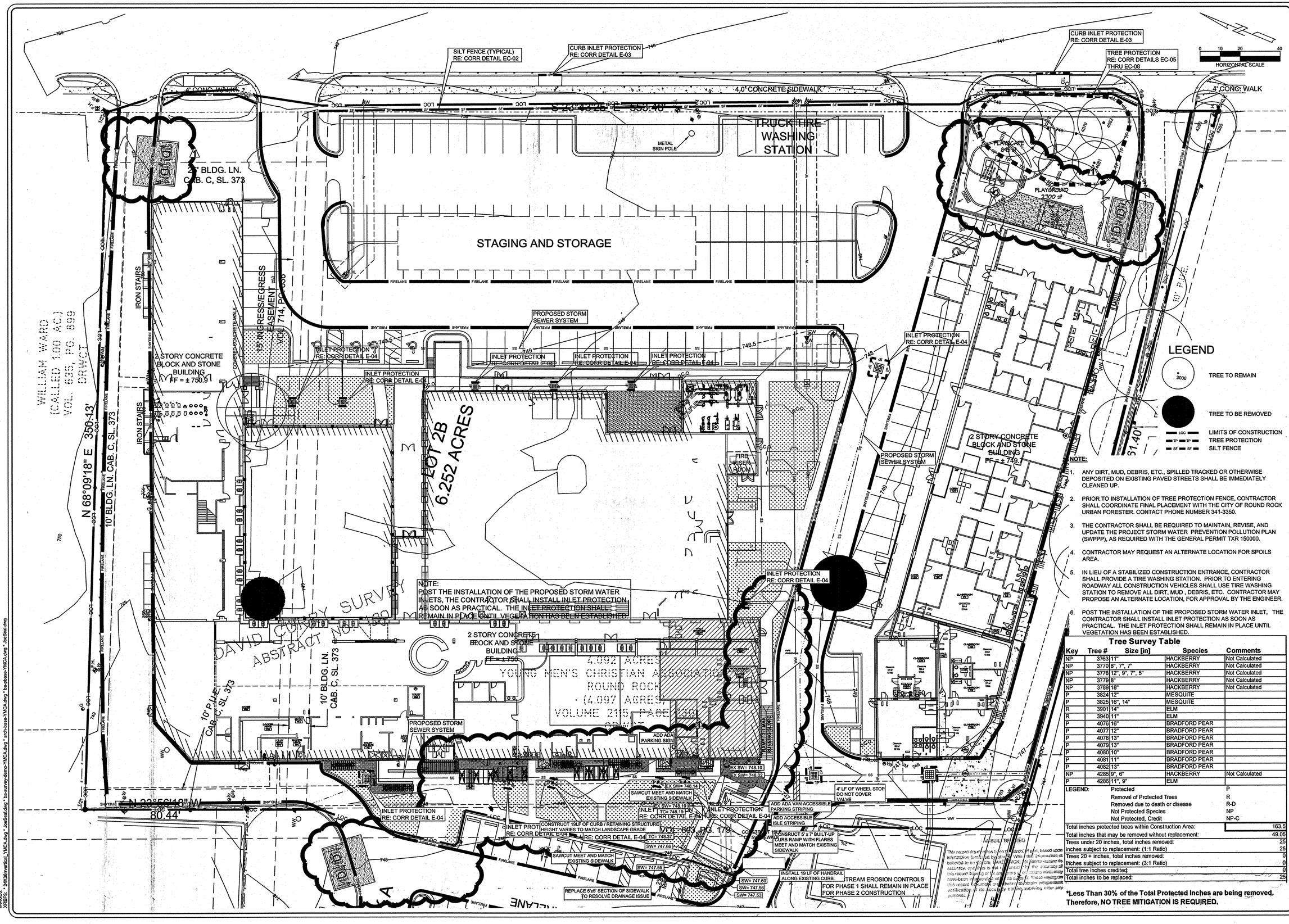
CLIENT: Y.M.C.A. OF GREATER WILLIAMSON COUNTY

PROJECT: ROUND ROCK Y.M.C.A. PARKING LOT EXPANSION (PHASE 2)

PROJECT No. 0129-3-010-21

SHEET No. C-8

IMAGES:
XREFS: "2AX28merrittail_YMCA.dwg" "JoeSail.dwg" "ba-survey-demo-YMCA.dwg" "ba-psaze-YMCA.dwg" "ba-base-YMCA.dwg" "arch-base-YMCA.dwg" "ba-demo.dwg" "JoeSail.dwg"



Tree Survey Table

Key	Tree #	Size [in]	Species	Comments
NP	3763	11"	HACKBERRY	Not Calculated
NP	3770	8", 7", 7"	HACKBERRY	Not Calculated
NP	3778	12", 9", 7", 5"	HACKBERRY	Not Calculated
NP	3779	8"	HACKBERRY	Not Calculated
NP	3789	18"	HACKBERRY	Not Calculated
P	3824	12"	MESQUITE	
P	3825	16", 14"	MESQUITE	
R	3901	14"	ELM	
R	3940	11"	ELM	
P	4076	16"	BRADFORD PEAR	
P	4077	12"	BRADFORD PEAR	
P	4078	13"	BRADFORD PEAR	
P	4079	13"	BRADFORD PEAR	
P	4080	10"	BRADFORD PEAR	
P	4081	11"	BRADFORD PEAR	
P	4082	13"	BRADFORD PEAR	
NP	4285	9", 6"	HACKBERRY	Not Calculated
P	4286	11", 9"	ELM	

LEGEND:		
	Protected	P
	Removal of Protected Trees	R
	Removed due to death or disease	R-D
	Not Protected Species	NP
	Not Protected, Credit	NP-C

Total inches protected trees within Construction Area:	163.5
Total inches that may be removed without replacement:	49.05
Trees under 20 inches, total inches removed:	25
inches subject to replacement: (1:1 Ratio)	25
Trees 20 + inches, total inches removed:	0
Inches subject to replacement: (3:1 Ratio)	0
Total tree inches credited:	0
Total inches to be replaced:	25

***Less Than 30% of the Total Protected Inches are being removed. Therefore, NO TREE MITIGATION IS REQUIRED.**

BAKER-AICKLEN & ASSOCIATES, INC.
Engineers • Surveyors • GIS • Planning
527 W. LIBERTY AVE. ROUND ROCK, TX 78664 (512) 244-9623

REGISTERED PROFESSIONAL ENGINEER — STATE OF TEXAS — 79274 — MICHAEL E. BAKER — 10/31/2011

No.	DATE	REVISIONS	RECOMD
1	27 FEB 2008	REVISED PARKING SHEETS C-8 THRU C-14, ADDED WATER METER PLAN SHEET C-13A, ADDED WATER METER DETAIL SHEET C-13B, ENTRY SHEET C-12, REVISED SIDEWALK @ MAIN ENTRY SHEET C-9 THRU C-11, ADDED PLAYSCAPE / PLAY YARD SHEET C-11, ADDED DUMPSTER SHEET C-21, ADDED SHEETS C-2 THRU C-14	

SHEET TITLE: EROSION / SEDIMENTATION CONTROL AND TREE PROTECTION PLAN

DESIGNED: ASP | DWG. NAME: jobs\...\dwg | DATE: Apr 27, 2009
DRAWN: SH | LAYOUT: ### | VIEW: ###
APPROVED: ASP | LATEST STATE: ###

CLIENT: Y.M.C.A. OF GREATER WILLIAMSON COUNTY

PROJECT: ROUND ROCK Y.M.C.A. PARKING LOT EXPANSION (PHASE 2)

PROJECT No. 0129-3-010-21

SHEET No. C-9

9 OF 24

IMAGES:
XREFS: - 24X36vertical_YMCA.dwg - JoeSeil.dwg - ba-survey-demo-YMCA.dwg - arch-base-YMCA.dwg - ba-pbase-YMCA.dwg - JoeSeil.dwg

MAYS STREET (BUSINESS I.H. 35)

(100' RIGHT-OF-WAY WIDTH)

HORIZONTAL SCALE 0 10 20 40

TBM 3

TBM 4

PT 1

PT 2

PT 3

4' CONC. WALK

10' CONCRETE SIDEWALK

ROCK CURB

S 23°43'25" E 553.48'

S23° 43' 12.72"E
314.43

N23° 43' 12.72"W
296.21

CONC. CURB

METAL SIGN POLE

10' BLDG. LN.
CAB. C, SL. 373

SERVICE POLE
W/ METER LOOP

POWER POLE
W/ TRANSFORMER

IRON STAIRS

CONC. PAD

2 STORY CONCRETE BLOCK AND STONE BUILDING
FF = ± 750.91

16' INGRESS/EGRESS EASEMENT
VOL. 714, PG. 300

WILLIAM WARD
(CALLED 1.00 AC.)
VOL. 835, PG. 899
DR.W.C.T.

SERVICE POLE
N 68°09'18" E 350.13'

10' BLDG. LN. CAB. C, SL. 373

1 HC

COVERED CONCRETE WALK

FIRELANE

LOT 2B
6.252 ACRES

FIRE RISER ROOM

HAND RAILS
RE: ARCHITECTURAL

3' CURB CUT

5' CURB CUT

2 STORY CONCRETE BLOCK AND STONE BUILDING
FF = ± 750

4.092 ACRES
YOUNG MEN'S CHRISTIAN ASSOCIATION
ROUND ROCK
(4.097 ACRES)
VOLUME 2115, PAGE 730
O.P.R.W.C.T.

DAVID CURRY SURVEY
ABSTRACT NO. 160

10' P.U.E.
CAB. C, SL. 373

15' P.U.E. VOL. 803, Pg. 179

N 23°56'10" W
80.44'

S 68°48'57" W 97.86

S85° 56' 40.21"W

PLAYSCAPE
845 sf

PLAYGROUND
2700 sf

SEE SHEET C-21 FOR PLAYGROUND DIMENSIONAL CONTROL

2 STORY CONCRETE BLOCK AND STONE BUILDING
FF = ± 749.7

CONC. RAMP

CONC. STEPS

NOTE:

1. ALL STANDARD PARKING SPACES ARE 9' X 18.5'.
2. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
3. CURBS AND CURB RETURNS DELINEATING THE FIRE LANE SHALL BE PAINTED RED WITH FOUR INCH (4") WHITE LETTERING STATING "NO PARKING-FIRE LANE" WORDING MAY NOT BE SPACED MORE THAN THIRTY FEET (30') APART.
4. PAINT CONTINUOUS 8" RED STRIPE WITH FOUR INCH (4") WHITE LETTERING STATING "NO PARKING-FIRE LANE" WORDING MAY NOT BE SPACED MORE THAN THIRTY FEET (30') APART.
5. CONSTRUCTION STAKING SHALL BE PROVIDED BY CONTRACTOR.
6. ALL RADII NOT DIMENSIONED ARE 2'.

PARKING SUMMARY LOT 2B (PHASE 2)

	STD. SPACES	ACC. SPACES	TOTAL
EXISTING	337	13	350
1 PROPOSED	271	9	**280**

NOTE: 1 ACCESSIBLE SPACE SHALL BE VAN ACCESSIBLE PER ROCK'S PLANNING DIRECTOR. LETTER DATED 30 APRIL 2007

(15) PARKING COUNT

TBM 2 TEMPORARY BENCH MARK

△ PT 9 HORIZONTAL CONTROL POINT

BENCHMARKS:

TBM 3 ELEVATION 749.80 - SQUARE CUT IN NORTHWEST CORNER OF CONCRETE CURB INLET ON WEST SIDE OF NORTH MAYS. INLET IS BETWEEN THE TWO DRIVEWAYS AT THE NORTHEAST CORNER OF THE YMCA TRACT.

TBM 4 ELEVATION 747.05 - SQUARE CUT IN SOUTHWEST CORNER OF CONCRETE CURB INLET ON WEST SIDE OF NORTH MAYS. INLET IS BETWEEN THE TWO DRIVEWAYS AT THE SOUTHEAST CORNER OF THE YMCA TRACT.

HORIZONTAL CONTROL POINTS

NUMBER	NORTHING	EASTING	DESCRIPTION
1	10166497.6239	3129929.0109	"X" IN CONCRETE
2	10166142.6274	3130016.4159	80d NAIL SET
3	10166004.1345	3130144.0475	"MAG" NAIL SET

NOTES:

1. THE DISTANCES SHOWN ON THIS DRAWING ARE IN SURFACE UNITS.
2. TO CONVERT TO TEXAS CENTRAL STATE PLANE COORDINATES: MULTIPLY BY THE PROJECT COMBINED SCALE FACTOR OF 0.99988 DO NOT SCALE THE ELEVATIONS
3. CITY OF ROUND ROCK CONTROL POINTS WERE USED FOR HORIZONTAL AND VERTICAL CONTROL GPS #01-013, HAVING GRID VALUES OF NORTHING 10166604.5477, EASTING 3130041.3876, AND ELEV.758.01' HORIZONTAL DATUM: NAD '83 (HARN '93) VERTICAL DATUM: [NAVD '88 (GEOID99)
4. BASIS OF BEARINGS IS GRID NORTH FOR TEXAS STATE PLANE [SOUTH] CENTRAL ZONE.

BAKER-AICKLEN & ASSOCIATES, INC.
Engineers • Surveyors • GIS • Planning
5227 W. LIBERTY AVE.
ROUND ROCK, TX 78664
(512) 244-9620

JAMES M. BAKER 79214 REGISTERED PROFESSIONAL ENGINEER STATE OF TEXAS

No.	DATE	REVISIONS	RECOM'D
1	27 FEB 2009	REVISED PARKING SHEETS C-8 THRU C-14, ADDED WATER METER PLAN SHEET C-13A, ADDED NOTE TO SHEET C-10, REVISED ENTRY SHEET C-12, REVISED SIDEWALK @ MAIN ENTRY SHEETS C-8 THRU C-11, REVISED SIDEWALK @ WEST SIDE SHEET C-11, ADDED DUMPSTER SHEET C-21, ADDED PLAYGROUND SHEETS C-11 THRU C-14	

SHEET TITLE: DIMENSIONAL CONTROL PLAN

DESIGNED: AAP DWG. NAME: xtras.dgn DATE: Apr 27, 2009
DRAWN: SBL LAYOUT: dim VIEW:
APPROVED: AAP LAYER STATE: dim

CLIENT: Y.M.C.A. OF GREATER WILLIAMSON COUNTY

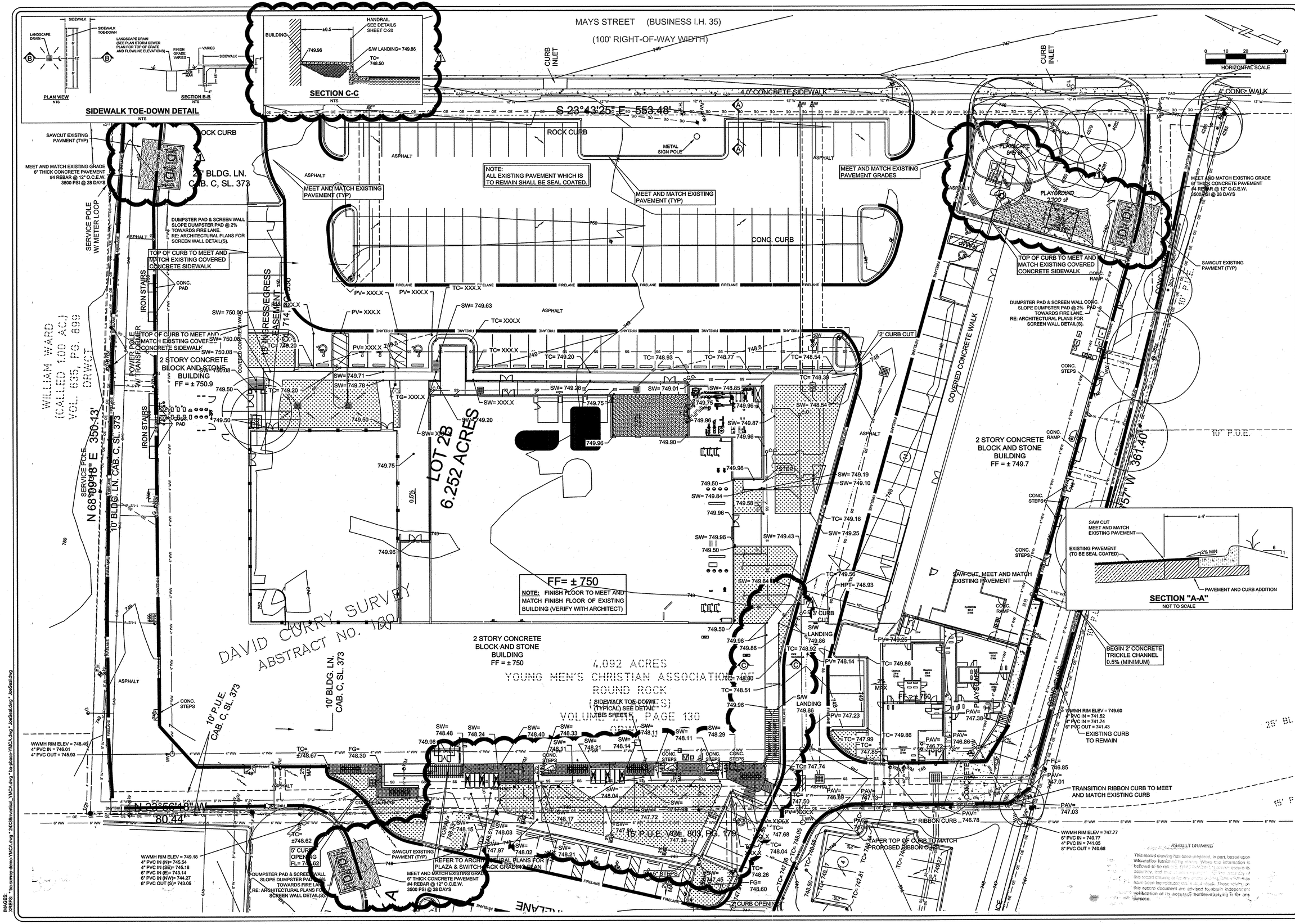
PROJECT: ROUND ROCK Y.M.C.A. PARKING LOT EXPANSION (PHASE 2)

PROJECT No. 0129-3-010-21

SHEET No. C-10

10 OF 24

IMAGES:
XREFS: "-24X36Irrvertical_YMCA.dwg" "-JoeSeal.dwg" "bs-phase-YMCA.dwg" "bs-survey-demo-YMCA.dwg" "arch-base-YMCA.dwg" "-JoeSeal.dwg"



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527 W. LIBERTY AVE.
ROUND ROCK, TX 78664
(512) 244-9623

No.	DATE	REVISIONS
1	27 FEB 2008	REVISED PARKING SHEETS C-9 THRU C-14, ADDED WATER METER PLAN SHEET C-9A, REVISED GRADING SHEETS C-10 & C-11, ENTRY SHEET C-12, REVISED SIDEWALK @ MAIN ENTRY SHEETS C-9 THRU C-14, REVISED SIDEWALK @ MAIN ENTRY SHEET C-11, ADDED DUMPSTER SHEET C-21, ADDED CONSTRUCTION DETAILS C-14

SHEET TITLE: PAVING, GRADING, AND DRAINAGE PLAN

DESIGNED: AAP | DWG. NAME: ymca.pgd.dwg | DATE: Apr 27, 2009
DRAWN: BB | LAYOUT: pgd | VIEW: XBA
APPROVED: AAP | LAYER STATE: pgd

CLIENT: Y.M.C.A. OF GREATER WILLIAMSON COUNTY

PROJECT: ROUND ROCK Y.M.C.A. PARKING LOT EXPANSION (PHASE 2)

PROJECT No. 0129-3-010-21

SHEET No. C-11

11 OF 24

IMAGES:
XREFS: - tbs-survey-demo>YMCA.dwg * 24X36mvertical_YMCA.dwg * tbs-pbase>YMCA.dwg * JoeSaid.dwg * JoeSaid.dwg * JoeSaid.dwg

MAYS STREET (BUSINESS I.H. 35)

(100' RIGHT-OF-WAY WIDTH)

S 23°43'25" E 553.48'

N 68°09'48" E 350.13'

N 22°56'40" W 80.44'

S 81°28'57" W 361.40'

6.252 ACRES

TBM 3

TBM 4

PT 1

PT 2

PT 3

CURB INLET

4' CONC. WALK

4.0' CONCRETE SIDEWALK

ROCK CURB

ASPHALT

METAL SIGN POLE

SERVICE POLE W/ METER LOOP

POWER POLE W/ TRANSFORMER

IRON STAIRS

CONC. PAD

CONC. STEPS

CONC. RAMP

PLAYGROUND 4700 sf

PLAYGROUND 845 sf

WILLIAM WARD (CALLED 1.00 AC.) VOL. 635, PG. 899 DR/WCT

DAVID CURRY SURVEY ABSTRACT NO. 160

BLDG. LN. CAB. C, SL. 373

10' P.U.E. CAB. C, SL. 373

15' P.U.E. VOL. 803, PG. 179

10' P.U.E.

18' INGRESS/EGRESS EASEMENT VOL. 71, PG. 300

FIRELANE

COVERED CONCRETE WALK

PIPE CROSSING
6" FIRE SPRINKLER WATER LINE= 742.15
18" STORM SEWER FL= 744.15
SEPARATION= 1.50'

PIPE CROSSING
2" WATER SERVICE= 742.46
18" STORM SEWER FL= 742.12
SEPARATION= 1.50'

PIPE SIZE CHANGE
18" TO 12"
2- 12" FL (IN)= 744.47
18" FL (OUT)= 744.47

18" x 12" WYE
18" FL (IN)= 744.17
12" FL (IN)= 744.17
18" FL (OUT)= 744.17

12" x 12" WYE
FL= 745.28

12" HDPE
197.3LF @ 0.5%

18" HDPE
110.7LF @ 0.5%

12" HDPE
59.5LF @ 0.5%

12" HDPE
35LF @ 0.5%

12" HDPE
127.5LF @ 0.5%

18" HDPE
207LF @ 0.5%

12" HDPE
24LF @ 1.21%

12" HDPE
67.7LF @ 0.5%

12" HDPE
24LF @ 2.75%

12" HDPE
51LF @ 1.0%

12" HDPE
81LF @ 1.0%

12" HDPE
51LF @ 1.0%

12" HDPE
81LF @ 1.0%

CLEANOUT
12" FL= 746.51

CLEANOUT
12" FL= 744.42

CLEANOUT
12" FL= 744.78

CLEANOUT
12" FL= 744.47

12" LANDSCAPE DRAIN
TG= 748.75
12" FL= 744.99

12" LANDSCAPE DRAIN
TG= 748.75
12" FL= 744.79

12" LANDSCAPE DRAIN
TG= 748.75
12" FL= 744.60

12" LANDSCAPE DRAIN
TG= 748.75
12" FL= 745.46

12" LANDSCAPE DRAIN
TG= 748.75
12" FL= 745.41

12" LANDSCAPE DRAIN
TG= 747.00
12" FL= 743.57

12" LANDSCAPE DRAIN
TG= 746.70
12" FL= 743.31

12" LANDSCAPE DRAIN
TG= 746.70
12" FL= 743.23

12" HDPE STUB TO DOWNSPOUT
FL= 746
(TYPICAL)

12" HDPE STUB TO DOWNSPOUT
FL= 746
(TYPICAL)

12" HDPE STUB TO DOWNSPOUT
FL= 746
(TYPICAL)

3' x 3' AREA INLET
TG= 747.73
18" FL (IN)(NE)= 743.96
18" FL (OUT)(W)= 743.92

3' x 3' AREA INLET
TG= 746.75
18" FL= 744.00

3' x 3' AREA INLET
TG= 746.55
24" FL (OUT)(SE)= 742.88
18" FL (IN)(NW)= 742.88
18" FL (IN)(NE)= 742.88

4' x 4' AREA INLET
TG= 746.50
24" FL (IN)(NW)= 742.59
30" FL (OUT)(SW)= 742.59

18" x 12" WYE
18" FL (IN)= 743.19
12" FL (IN)= 743.69
18" FL (OUT)= 743.49

PIPE CROSSING
12" STORM SEWER FL= 744.69
8" WASTEWATERFL= 742.67
SEPARATION= ±1.52'

PIPE CROSSING
12" STORM SEWER FL= 744.50
8" WASTEWATERFL= 742.49
SEPARATION= ±1.51'

PIPE CROSSING
12" STORM SEWER FL= 744.67
8" WASTEWATERFL= 742.41
SEPARATION= ±1.52'

PIPE CROSSING
12" STORM SEWER FL= 744.00
8" WASTEWATERFL= 741.83
SEPARATION= ±1.5'

PIPE CROSSING
18" STORM SEWER FL= 743.35
SEPARATION= ±1.16'

PIPE CROSSING
18" WASTEWATER FL= 744.30
16" STORM SEWER FL= 742.84
SEPARATION= 1.76'

GAS CROSSING
DEPTH UNKNOWN FIELD VERIFY
GAS FL= ±746.00
18" STORM SEWER FL= 743.35
SEPARATION= ±1.16'

GAS CROSSING
DEPTH UNKNOWN FIELD VERIFY
GAS FL= ±746.00
18" STORM SEWER FL= 743.67
SEPARATION= ±0.84'

GAS CROSSING
GAS FL= 746.00
16" STORM SEWER FL= 743.45
SEPARATION= ±1.16'

EMERGENCY OVERFLOW PIPES
2- 8" PVC @ 24" O.C.
FL (IN)= 748.84
FL (OUT)= 748.90

GRADE BREAK
12" FL= 744.42

GRADE BREAK
12" FL= 744.13

3' CURB CUT

FIRE RISER ROOM

WATERLINE CROSSING
DEPTH UNKNOWN MAINTAIN
A MINIMUM 18" CLEAR
24" SS FL= 742.67

WATERLINE CROSSING
DEPTH UNKNOWN MAINTAIN
A MINIMUM 18" CLEAR
30" SS FL= 742.56

CONNECT & EXTEND PHASE 1
30" HDPE STORM SEWER LINE

PIPE CROSSING
8" WASTEWATER FL= 740.95
30" STORM SEWER FL= 742.51
SEPARATION= ±0.89'

WWMH RIM ELEV = 748.46
4" PVC IN = 746.01
4" PVC OUT = 745.93

WWMH RIM ELEV = 749.18
4" PVC IN (N)= 745.54
4" PVC IN (SE)= 745.18
6" PVC IN (E)= 743.14
6" PVC IN (NW)= 744.27
6" PVC OUT (S)= 743.05

WWMH RIM ELEV = 749.60
4" PVC IN = 741.52
4" PVC IN = 741.74
6" PVC OUT = 741.43

RIM ELEV = 747.77
IN= 740.77
IN = 741.05
OUT = 740.68

NOTE:
CONNECT DOWN SPOUTS TO STORM SEWER SYSTEM. SEE DETAIL SHEET C-15.
COORDINATE DOWN SPOUT LOCATIONS WITH ARCHITECT.

CAUTION!!! OVERHEAD ELECTRIC IN AREA

CAUTION!!! GAS LINE DEPTH UNKNOWN

AS-BUILT DRAWING

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0 10 20 40
HORIZONTAL SCALE

BAKER-AICKLEN & ASSOCIATES, INC.
Engineers • Surveyors • GIS • Planning
527 W. LIBERTY AVE. ROUND ROCK, TX 78664 (512) 244-9633

No.	DATE	REVISIONS
1	27 FEB 2008	REVISED PARKING SHEETS C-3 THRU C-14, ADDED WATER METER PLAN SHEET C-13A, ADDED DOWNSPOUT LOCATIONS TO MAIN ENTRY SHEET C-3 THRU C-14, REVISED SIDEWALK @ MAIN ENTRY SHEET C-3 THRU C-14, ADDED DUMPSTER SHEET C-21, ADDED DOWNSPOUT LOCATIONS SHEET C-3 THRU C-14, ADDED PLAYSCAPE / PLAY YARD

SHEET TITLE: STORM SEWER PLAN

DESIGNED: ABP | DWG. NAME: #09 SS PLAN.dwg | DATE: Apr 27, 2009
DRAWN: BL | LAYOUT: SS PLAN | VIEW: 3/8"
APPROVED: ABP | LAYER STATE: SS PLAN

CLIENT: Y.M.C.A. OF GREATER WILLIAMSON COUNTY

PROJECT: ROUND ROCK Y.M.C.A. PARKING LOT EXPANSION (PHASE 2)

PROJECT No. 0129-3-010-21

SHEET No. C-12

12 OF 24

IMAGES:
XREFS: * 24X36metrical_YMCA.dwg * ba-pbase-YMCA.dwg * ba-pbase-YMCA.dwg * arch-base-YMCA.dwg * arch-base-roof-YMCA.dwg * ba-survey-demo-YMCA.dwg * JoeSeal.dwg

MAYS STREET (BUSINESS I.H. 35)

(100' RIGHT-OF-WAY WIDTH)

0 10 20 40
HORIZONTAL SCALE

1~ 12" x 6" TAPPING SLEEVE & VALVE
N=10165162.17
E=3129601.31

1~ 12" x 6" TAPPING SLEEVE & VALVE
N=10164966.05
E=3129688.29

1~ 12" x 8" TAPPING SLEEVE & VALVE
N=10164960.57
E=3129690.72

4' CONC. WALK

4' CONCRETE SIDEWALK

S 23°43'25" E 553.48'

METAL SIGN POLE

ASPHALT

±92 LF OF 6" DUCTILE IRON PIPE

PROPOSED 10' WATER LINE EASEMENT DOC# 2009015826

±122 LF OF 8" C-900 PIPE

PROPOSED 10' WATER LINE EASEMENT DOC# 2009015825

PROPOSED 10' WATER LINE EASEMENT DOC# 2009015824

±214 LF OF 6" DUCTILE IRON

1~ 8"x8"x6" TEE MJ x FLG
1~ 6" GATE VALVE FLG x MJ
1~ 8" x 4" REDUCER
1~ 4" GATE VALVE MJ x MJ
1~ 4" PLUG WITH 2" THREADED TAP
N=10164912.81
E=3129581.96

PIPE CROSSING
2" WATER SERVICE= 742.46
18" STORM SEWER FL= 742.12
SEPARATION= 1.50'

1~ 6" 45° BEND MJ x MJ

1~ FIRE HYDRANT ASSEMBLY

PROPOSED 5' WATER LINE EASEMENT (TYPICAL) DOC# 2009015825

25' BLDG. LN. CAB. C, SL. 373

ROCK PLANTER

POWER POLE W/ TRANSFORMER & LOOP

IRON STAIRS

15' INGRESS/EGRESS EASEMENT VOL. 714, PG. 389

COVERED CONCRETE WALK

PIPE CROSSING
6" FIRE SPRINKLER WATER LINE= 742.15
18" STORM SEWER FL= 744.15
SEPARATION= 1.50'

±13 LF OF 6" DUCTILE IRON PIPE

1~ FIRE HYDRANT ASSEMBLY

6" 45° BEND MJ x MJ
(RESTRAINED WITH THRUST BLOCKING)

±81 LF OF 2" SERVICE PIPE

1~ WATER METER (1-½")
RE: DETAIL SHEET C-18 END PUBLIC IMPROVEMENTS @ D/S SIDE OF 2" WATER METER

1' SEPARATION

6" 45° BEND MJ x MJ
(RESTRAINED WITH THRUST BLOCKING)

2 STORY CONCRETE BLOCK AND STONE BUILDING
FF = ± 750.9

GAS
ACTIVE WATER METER
PRECISION METER
60753374

WILLIAM WARD
(CALLED 1.00 AC.)
VOL. 635, PG. 699
DRWCT

PIPE CROSSING
6" WASTEWATER = 742.41
2" WATER 744.58
SEPARATION= 1.50' (MINIMUM)

10' SEPARATION

2" WATER SERVICE
STUB 5' FROM BUILDING
RE: MEP FOR CONTINUATION

6" FIRE LINE (DUCTILE IRON)
STUB 5' FROM BUILDING
RE: MEP FOR CONTINUATION

FIRE RISER ROOM

2~ 6" 45° BENDS MJ x MJ
(RESTRAINED WITH THRUST BLOCKING)

PIPE CROSSING
8" WASTEWATER = 742.36
6" WATER 744.53
SEPARATION= 1.50' (MINIMUM)

LOT 2B
6.252 ACRES

PHASE 2
IMPROVEMENTS

2 STORY CONCRETE
PROPOSED 5'
WATER LINE EASEMENT
(TYPICAL)
DOC# 2009015825

ACTIVE WATER METER
PRECISION METER
#60753371

INACTIVE WATER METER

PROPOSED 5' WATER LINE EASEMENT (TYPICAL) DOC# 2009015825

ACTIVE WATER METER
PRECISION METER

NOTES:

1. THE CONTRACTOR SHALL POT HOLE AND FIELD VERIFY THE LOCATION AND DEPTHS OF ALL PROPOSED UTILITY CROSSINGS & CONNECTIONS PRIOR TO ANY CONSTRUCTION OR ORDERING OF MANHOLES. CONTRACTOR SHALL REPORT DISCREPANCIES OF EXISTING UTILITIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY, AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
3. REFER TO MEP PLAN FOR SERVICE CONNECTIONS TO UTILITY PROVIDERS: GAS / ELECTRIC / TELEPHONE / ETC.
4. STUB BLDG. FIRE LINES & WATER SERVICES 5' FROM BLDG.'S. REFER TO MEP PLAN FOR CONTINUATION.
5. THE CONTRACTOR SHALL NOT OPEN OR CLOSE ANY VALVES UNLESS AUTHORIZED BY THE CITY OF ROUND ROCK.
6. WHERE A SEWER CROSSES OVER A WATERLINE, ALL PORTIONS OF THE SEWER WITHIN NINE FEET OF THE WATERLINE SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC PIPE WITH A PRESSURE RATING OF AT LEAST 150 PSI USING APPROPRIATE ADAPTERS. IN LIEU OF THIS PROCEDURE THE NEW CONVEYANCE MAY BE ENCASED IN A JOINT OF 150 PSI PRESSURE CLASS PIPE AT LEAST 18 FEET LONG AND TWO NOMINAL SIZES LARGER THAN THE NEW CONVEYANCE. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT FIVE FEET INTERVALS WITH SPACERS OR BE FILLED TO THE SPRING LINE WITH WASHED SAND. THE ENCASEMENT PIPE SHOULD BE CENTERED ON THE CROSSING AND BOTH ENDS SEALED WITH CEMENT GROUT OR MANUFACTURED SEAL.

AS-BUILT RECORD DRAWING

SERVICE POLE
N 68°09'48" E 350.13'

10' BLDG. LN. CAB. C, SL. 373

INACTIVE WATER METER
GAS

INACTIVE WATER METER

DAVID CURRY SURVEY
ABSTRACT NO. 130

10' P.U.E. CAB. C, SL. 373

10' BLDG. LN. CAB. C, SL. 373

2 STORY CONCRETE BLOCK AND STONE BUILDING
FF = ± 750

4.092 ACRES
YOUNG MEN'S CHRISTIAN ASSOCIATION OF ROUND ROCK
(178,222 SQ. FT. ACRES)
VOLUME 2115, PAGE 130
ORWCT

EXISTING METER ABANDONED
REMOVE METER BOX &
ABANDON SERVICE AT THE MAIN

PROPOSED 5' WATER LINE EASEMENT (TYPICAL) DOC# 2009015825

PROPOSED 10' WATER LINE EASEMENT DOC# 2009015825

ACTIVE WATER METER
MASTER METER
5436769

INACTIVE WATER METER

GAS METER

WWMH RIM ELEV = 748.46
4" PVC IN = 746.01
4" PVC OUT = 745.93

N 23°56'10" W
80.44

PROPOSED 10' WATER LINE EASEMENT DOC# 2009015825

WWMH RIM ELEV = 749.18
4" PVC IN (N)= 745.54
4" PVC IN (SE)= 745.18
6" PVC IN (E)= 743.14
6" PVC IN (NW)= 744.27
6" PVC OUT (S)= 743.05

CAUTION!!!
OVERHEAD
ELECTRIC IN AREA

POWER POLES TO BE RELOCATED COORDINATE WITH FRANCHISE UTILITY

CAUTION!!!
GAS LINE
DEPTH UNKNOWN

PIPE CROSSING
8" WASTEWATER FL= 741.68
6" WATER FL= 743.68
SEPARATION= 1.5' (MINIMUM)

1~ 6" x 6" TAPPING SLEEVE AND VALVE
1~ FIRE HYDRANT ASSEMBLY
±38 LF OF 6" DUCTILE IRON PIPE

EXISTING METER ABANDONED
REMOVE METER BOX &
ABANDON SERVICE AT THE MAIN

GAS LINE CROSSING
DEPTH UNKNOWN (FIELD VERIFY)
MAINTAIN A MINIMUM 18" CLEAR
PROVIDE TRENCH CAP OVER
EXISTING GAS LINE

FF = ± 750

PLAYSCAPE

ACTIVE WATER METER
PRECISION METER
9453107

WWMH RIM ELEV = 749.60
4" PVC IN = 741.52
4" PVC IN = 741.74
6" PVC OUT = 741.43

WWMH RIM ELEV = 747.77
6" PVC IN = 741.71
4" PVC IN = 741.05
8" PVC OUT = 740.68

AS-BUILT DISCLAIMER:
These as-built corrections shown hereon pertain only to the Natatorium portion of Phase 2 and were made under the direction of Joe Baker, P.E., R.P.L.S. These as-builts are not for distribution to the City as as-built closeout documentation; they are only for the contractor's use as work continues on Phase 2 of the project.

STATE OF TEXAS
JOE W. BAKER
93755
REGISTERED PROFESSIONAL LAND SURVEYOR

Signed: _____

Date: _____

IMAGES:
XREFS: * 24X36revised1_YMCA.dwg * AAPbase1.dwg * bs-survey-demo-YMCA.dwg * asb-base-YMCA.dwg * bs-pbase-YMCA.dwg

I:\EPDW\0129-3-010-YMCA\plans-ymcalymca_water.dwg, 10/19/2007 6:25:54 PM, plot by: $

BAKER-AICKLEN & ASSOCIATES, INC.
Engineers • Surveyors • GIS • Planning
527 W. LIBERTY AVE.
ROUND ROCK, TX 78664
(512) 244-4620

JOE W. BAKER
93755
REGISTERED PROFESSIONAL LAND SURVEYOR
10/19/07

No.	DATE	REVISIONS	RECOM'D

SHEET TITLE: WATER PLAN

DESIGNED: AAP
DRAWN: ISI
APPROVED: AAP
DWG. NAME: ymca_water.dwg
LAYOUT: water
LAYER STATE: water
DATE: Oct 19, 2007
VIEW:

CLIENT: Y.M.C.A. OF GREATER WILLIAMSON COUNTY

PROJECT: ROUND ROCK Y.M.C.A. PARKING LOT EXPANSION (PHASE 2)

PROJECT No. 0129-3-010-21

SHEET No. C-13

13 OF 23

MAYS STREET (BUSINESS I.H. 35)

(100' RIGHT-OF-WAY WIDTH)

HORIZONTAL SCALE 0 10 20 40

MATERIAL LIST

A. SERVICE CLAMP REQUIRED.
B. 1" CORPORATION STOP - SERVICE PIPE OUTLET.
C. 1" SERVICE PIPE.
D. LOCKING ANGLE METER STOP, SERVICE PIPE INLET X SWIVEL COUPLING NUT OUTLET:
- FOR 5/8" AND 3/4" METERS: 1" X 3/4"
- FOR 1" METERS: 1" X 1"
E. PLASTIC RECTANGULAR METER BOX. (SEE TABLE BELOW)
F. PIPE CASING WHERE APPLICABLE. (AS PER DETAIL WT-01)
G. WATER METER, CENTERED IN BOX. (SEE TABLE BELOW)
H. WATER METER COUPLING:
MALE I.P.T. X SWIVEL COUPLING NUT:
- FOR 5/8" AND 3/4" METERS: 3/4" X 8 1/2" LONG.
- FOR 1" METERS:
LENGTH OF PIPE TO BE DETERMINED BY CONTRACTOR. EXTEND PIPE TO 4"-6" OUTSIDE OF METER BOX.
I. BRONZE GATE VALVE: NON-RISING STEM (3/4" OR 1") x FEMALE I.P.T. (PROPERTY OWNERS CUT-OFF OUTSIDE METER BOX IN SEPARATE VALVE CAN WITH LID AS PER CITY OF ROUND ROCK STANDARDS)
J. 3/4" OR 1" PIPE MEETING CITY OF ROUND ROCK PLUMBING CODE REQUIREMENTS.

MAXIMUM SLOPE 1/4"/FT. FRONT TO BACK OR BACK TO FRONT.
BOX TO BE LEVEL SIDE TO SIDE.
R.O.W.
METER BOX

NOTES:

1. SERVICE PIPE SHALL BE COPPER TUBE SIZE. IT MAY BE 150 PSI ANNEALED SEAMLESS TYPE "K" COPPER TUBING OR 200 PSI BLACK COLORED POLYETHYLENE HAVING A DIMENSION RATIO OF 9 (DR9).
2. SERVICE SADDLES SHALL BE WRAPPED COMPLETELY WITH 8 MIL. POLYETHYLENE FILM.
3. TOP OF BOXES SHALL BE 1" ABOVE FINISHED GRADE.
4. PIPING AND TUBING SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 510.3 OF THE STANDARD SPECIFICATIONS. SPECIAL ATTENTION IS CALLED TO "PIPE BEDDING ENVELOPE" AND "BACKFILLING", SECTIONS 510.3 (14) AND 510.3 (25), RESPECTIVELY.
5. AXIS OF METER ASSEMBLY (LINE THROUGH METER STOP, METER, PIPING AND OWNERS CUTOFF) SHALL BE 10" BELOW TOP OF BOX.
6. SLOTS PROVIDED IN METER BOX TO ACCOMODATE PIPING INTO AND OUT OF BOX, SHALL NOT BE MODIFIED.
7. LOCATION OF METER BOXES SHALL BE SUBJECT TO THE APPROVAL OF THE C.O.R.R.

PART NUMBER	SERIES	SIZE	HEIGHT	WIDTH	LENGTH
DFW36C-BODY*	36C	STANDARD	12-1/4"	TOP = 13-3/4"	TOP = 19"
DFW36C-SB5M*	36C	STANDARD	12-1/4"	BASE = 10"	BASE = 16-1/4"
DFW36C-SB5M-LID*	36C	STANDARD	1-3/4"	LID = 10"	LID = 15"

* ROTEC BY DFW PLASTICS INCORPORATED OR APPROVED EQUAL.

METER SIZE	LENGTH
5/8"	7 3/4"
3/4"	9"
1"	11"

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS
APPROVED
07-11-06
DATE
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.

CITY OF ROUND ROCK

SINGLE 5/8", 3/4" OR 1" WATER METER DETAIL

DRAWING NO: WT-02

ROUND ROCK, TEXAS Standard Detail

NOTES:

1. THE EXISTING 1" WATER METER ON THE SOUTH WING WILL BE RELOCATED AND REPLACED WITH A 5/8" WATER METER.
2. THE EXISTING 1-1/2" WATER METER AT THE CDC BUILDING WILL BE REPLACED WITH A NEW 5/8" WATER METER.
3. THE EXISTING 1-1/2" WATER METER FROM THE CDC BUILDING WILL BE MOVED AND USED FOR THE NATATORIUM.
4. THE EXISTING 1" WATER METER FROM THE SOUTH WING WILL BE USED IN THE EXISTING METER BOX AT THE NEW LOCATION TO FEED THE EXISTING LOCKER ROOMS.

1. REMOVE EXISTING 1" WATER METER & RELOCATE ON SITE
INSTALL NEW 5/8" WATER METER
SEE DETAIL THIS SHEET
EXISTING SERVICE LINE TO REMAIN

2. REMOVE EXISTING 1-1/2" WATER METER & RELOCATE ON SITE
INSTALL NEW 5/8" WATER METER
SEE DETAIL THIS SHEET
EXISTING SERVICE LINE TO REMAIN

3. INSTALL RELOCATED 1-1/2" WATER METER FROM CDC BUILDING
RE: SHEET C-13

4. INSTALL RELOCATED 1" WATER METER FROM SOUTH WING
RE: INSTALLATION DETAIL THIS SHEET
EXISTING SERVICE LINE TO REMAIN

PROPOSED 10' WATER LINE EASEMENT DOC# 2009015824

PROPOSED 10' WATER LINE EASEMENT DOC# 2009015826

PROPOSED 10' WATER LINE EASEMENT DOC# 2009015825

16' INGRESS/EGRESS EASEMENT VOL. 714, PG. 330

4' CONC. WALK

4.0' CONCRETE SIDEWALK

PLAYSCAPE 8456 sf

PLAYGROUND 2700 sf

SOUTH WING

CDC

BUILDING

FIRE RISER ROOM

10' P.U.E. CAB. C, SL. 373

10' BLDG. LN. CAB. C, SL. 373

SERVICE POLE W/ LIGHT

POWER POLE W/ TRANSFORMER

IRON STAIRS

METAL SIGN POLE

FIRELANE

1-1/2" WATER METER INSTALLATION DETAIL
NOT TO SCALE

PROPOSED 5' WATER LINE EASEMENT (TYPICAL) DOC# 2009015825
PROPOSED 1-1/2" WATER SERVICE LINE FROM METER TO BUILDING
RE-LOCATED 1" WATER METER
EXISTING 1" WATER SERVICE LINE TO METER
EXISTING 8" WATERLINE
PROPOSED 10' WATER LINE EASEMENT (TYPICAL) DOC# 2009015825

AS-BUILT DRAWING
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IMAGES:
XREFS: - "24X36vertical_YMCA.dwg" - "ba-survey-demo-YMCA.dwg" - "arch-base-YMCA.dwg" - "ba-pbase-YMCA.dwg" - "JoeSeal.dwg"

BAKER-AICKLEN & ASSOCIATES, INC.
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ROUND ROCK, TX 78664
(512) 244-9523

No.	DATE	REVISIONS	RECOM'D
1	01/24/20	REVISED PARKING SHEETS C-9 THRU C-14; ADDED WATER METER PLAN SHEET C-13A; ADDED DETAIL SHEET C-13B; REVISED ENTRY SHEET C-17; REVISED SIDEWALK @ MAIN ENTRY SHEETS C-9 THRU C-14; REVISED SHEET C-12; ADDED BIKE RACK SHEET C-14; ADDED PLAYSCAPE / PLAYYARD. SHEET C-24; ADDED DUMPSTER LOCATION SHEET C-14	

SHEET TITLE: OVERALL WATER METER PLAN

DESIGNED: AAP DWG. NAME: ...ms_attender.dwg
DRAWN: JSL LAYOUT: WATER METER PLAN
APPROVED: AAP LATER STATE: WATER METER PLAN
DATE: Apr 27, 2009

CLIENT: Y.M.C.A. OF GREATER WILLIAMSON COUNTY

PROJECT: ROUND ROCK Y.M.C.A. PARKING LOT EXPANSION (PHASE 2)

PROJECT No. 0129-3-010-21

SHEET No. C-13A

14 OF 24

MAYS STREET (BUSINESS I.H. 35)

(100' RIGHT-OF-WAY WIDTH)

HORIZONTAL SCALE 0 10 20 40

S 23°43'25" E 553.48'

4' CONC. WALK

4.0' CONCRETE SIDEWALK

ASPHALT

FIRELANE

METAL SIGN POLE

SERVICE POLE W/ METER LOOP

27' BLDG. LN. CAB. C, SL. 373

IRON STAIRS

POWER POLE W/ TRANSFORMER

2 STORY CONCRETE BLOCK AND STONE BUILDING FF = ± 750.51

15' INGRESS/EGRESS EASEMENT VOL. 714, PG. 330

COVERED CONCRETE WALK

WILLIAM WARD (CALLED 1.00 AC.) VOL. 635, PG. 839 DRWCT

SERVICE POLE

N 63°09'18" E 350.13'

10' BLDG. LN. CAB. C, SL. 373

PLAYSCAPE 845 sf

PLAYGROUND 2,700 sf

4' CONC. WALK

8" WASTEWATER SERVICE 15.6LF @ 2.0% (SDR-26, D3034) FL= 742.67 REDUCE FROM 6" TO 4" SERVICE

8" WASTEWATER SERVICE 31LF @ 2.0% (SDR-26, D3034) FL= 742.91 REDUCE FROM 6" TO 4" SERVICE

6" WASTEWATER SERVICE 31LF @ 2.0% (SDR-26, D3034) FL= 742.73 REDUCE FROM 6" TO 4" SERVICE

6" WASTEWATER SERVICE 31LF @ 2.0% (SDR-26, D3034) FL= 742.86 REDUCE FROM 6" TO 4" SERVICE

8" WASTEWATER SERVICE 15.6LF @ 2.0% (SDR-26, D3034) FL= 742.81

4" CLEANOUT

10' SEPARATION

8" WASTEWATER SERVICE 15.6LF @ 2.0% (SDR-26, D3034) FL= 742.67 REDUCE FROM 6" TO 4" SERVICE

FIRE RISER ROOM

PIPE CROSSING 8" WASTEWATER = 742.36 6" WATER 744.53 SEPARATION= 1.50' (MINIMUM)

6" WASTEWATER SERVICE 31LF @ 2.0% (SDR-26, D3034) FL= 742.91 REDUCE FROM 6" TO 3" SERVICE

6" WASTEWATER SERVICE 31LF @ 2.0% (SDR-26, D3034) FL= 742.73 REDUCE FROM 6" TO 3" SERVICE

6" WASTEWATER SERVICE 31LF @ 2.0% (SDR-26, D3034) FL= 742.86 REDUCE FROM 6" TO 4" SERVICE

2 STORY CONCRETE BLOCK AND STONE BUILDING FF = ± 750

10' P.U.E. CAB. C, SL. 373

10' BLDG. LN. CAB. C, SL. 373

DAVID CURRY SURVEY ABSTRACT NO. 180

YOUNG MEN'S CHRISTIAN ASSOCIATION OF ROUND ROCK, TEXAS 4.097 ACRES VOLUME 2115, PAGE 685 DRMT

PHASE 2 IMPROVEMENTS LOT 2B 6.252 ACRES

CONSTRUCT 4'ø WASTEWATER MANHOLE WITH CAST IN PLACE BASE TIE-IN 4" WASTEWATER LINE 8" FL (IN)(E)= 741.87 (PROPOSED) 4" FL (IN)(N)= 742.49 (EXISTING) 8" FL (OUT)(W)= 741.67 (PROPOSED) N= 10164863.77 E= 3129356.43

8" WASTEWATER SERVICE 15.6LF @ 2.0% (SDR-26, D3034)

ADD ADA WATERLINE CROSSING PARKING SIGN (IF UNKNOWN MAINTAIN MINIMUM 5'-0" CLEAR)

EX SW= 748.10

EX SW= 748.02

EX SW= 748.14

SAWCUT MEET AND MATCH EXISTING SIDEWALK

EX SW= 748.19

EX SW= 748.37

CONSTRUCT 19LF OF CURB / RETAINING STRUCTURE HEIGHT VARIES TO MATCH LANDSCAPE GRADE

BR FL= 747.82

SEPARATION = 1.0' (MINIMUM)

SW= 747.66

SAWCUT MEET AND MATCH EXISTING SIDEWALK

SW= 747.55

REPLACE 5'x5' SECTION OF SIDEWALK TO RESOLVE DRAINAGE ISSUE

WWMH RIM ELEV = 748.46 4" PVC IN = 746.01 4" PVC OUT = 745.93

N 23°56'40" W 80.44'

WWMH RIM ELEV = 749.18 4" PVC IN (N)= 745.54 4" PVC IN (SE)= 745.18 6" PVC IN (E)= 743.14 6" PVC IN (NW)= 744.27 8" PVC OUT (S)= 743.05

CAUTION!!! OVERHEAD ELECTRIC IN AREA

CAUTION!!! GAS LINE DEPTH UNKNOWN

8" WYE CONNECTION 8" FL= 742.50

8" WASTEWATER SERVICE 27.7LF @ 0.5% (SDR-26, D3034)

2 STORY CONCRETE BLOCK AND STONE BUILDING FF = ± 749.7

8" x 6" WYE CONNECTION 8" FL= 742.36

8" WASTEWATER SERVICE 13.1LF @ 0.5% (SDR-26, D3034)

8" x 6" WYE CONNECTION 8" FL= 742.31

8" WASTEWATER SERVICE 38LF @ 0.5% (SDR-26, D3034)

6" x 6" WYE CONNECTION 8" FL= 742.11

8" WASTEWATER SERVICE 14.5LF @ 0.5% (SDR-26, D3034)

8" x 6" WYE CONNECTION 8" FL= 742.07

8" WASTEWATER SERVICE 42.3LF @ 0.5% (SDR-26, D3034)

6" TRAFFIC-RATED CLEANOUT

PIPE CROSSING 8" WASTEWATER FL= 741.50 18" STORM SEWER FL= 742.23 SEPARATION= 0.73'

ABANDON THIS SECTION OF 8" WASTEWATER LINE (IN PLACE) & INSTALL CLEANOUT

INSTALL 4" CLEANOUT 8" FROM BUILDING

WWMH RIM ELEV = 749.60 4" PVC IN = 741.52 4" PVC IN = 741.74 6" PVC OUT = 741.43

CENTER 1 FULL JOINT (20') OF WASTEWATER LINE UNDER WATERLINE @ CROSSING (MINIMUM PRESSURE RATING 150 PSI, SDR-26, D2241)

STA. 1+00 WASTEWATER LINE "A" TIE TO EXISTING WASTEWATER MANHOLE CORE 8" INLET IN PLACE OF 6" INLET MAINTAIN FL= 740.77 INSERT GASKET AND PROVIDE PRECO GROUT INSIDE AND OUT OR APPROVED EQUAL (BEGIN PUBLIC IMPROVEMENTS)

4' LF OF WHEEL STOP DO NOT COVER VALVE

ADD ADA VAN ACCESSIBLE PARKING STRIPING

ADD ACCESSIBLE ISLE STRIPING

CONSTRUCT 5' x 7' BUILT-UP CURB RAMP WITH FLARES MEET AND MATCH EXISTING SIDEWALK

GAS LINE CROSSING (FIELD VERIFY) 3.25

8" WW FL= INSTALL 19 LF OF HANDRAIL ALONG EXISTING CURB. SW= 747.60 SW= 747.56 SW= 747.53 WIDE TRENCH CAP OVER EXISTING GAS LINE

8" WASTEWATER MAIN 108LF @ 0.48% (SDR-26, D3034) REFER TO PROFILE SHEET C-18

STA. 2+08 WASTEWATER LINE "A" CONSTRUCT 4'ø WASTEWATER MANHOLE WITH CAST IN PLACE BASE OVER EXISTING 6" WASTEWATER LINE 8" FL (IN)(E)= 741.39 (PROPOSED) 8" FL (IN)(N)= 741.46 (EXISTING) 8" FL (OUT)(S)= 741.29 (PROPOSED) END PUBLIC IMPROVEMENTS N= 10164819.63 E= 3129356.98

WWMH RIM ELEV = 747.77 6" PVC IN = 740.77 4" PVC IN = 741.05 8" PVC OUT = 740.68

PIPE CROSSING 8" WASTEWATER FL= 740.95 30" STORM SEWER FL= 742.51 SEPARATION= ±0.89'

NOTES:

1. THE CONTRACTOR SHALL POT HOLE AND FIELD VERIFY THE LOCATION AND DEPTHS OF ALL PROPOSED UTILITY CROSSINGS & CONNECTIONS PRIOR TO ANY CONSTRUCTION OR ORDERING OF MANHOLES. CONTRACTOR SHALL REPORT DISCREPANCIES OF EXISTING UTILITIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY, AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
3. REFER TO MEP PLAN FOR SERVICE CONNECTIONS TO UTILITY PROVIDERS: GAS / ELECTRIC / TELEPHONE / ETC.
4. THE CONTRACTOR SHALL NOT OPEN OR CLOSE ANY VALVES UNLESS AUTHORIZED BY THE CITY OF ROUND ROCK.
5. ALL MANHOLES SHALL BE COATED AND VACUUM TESTED.
6. STUB WW SERVICES 5' FROM BUILDING. REFER TO MEP PLAN FOR CONTINUATION.
7. WHERE A SEWER CROSSES OVER A WATERLINE, ALL PORTIONS OF THE SEWER WITHIN NINE FEET OF THE WATERLINE SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC PIPE WITH A PRESSURE RATING OF AT LEAST 150 PSI USING APPROPRIATE ADAPTERS. IN LIEU OF THIS PROCEDURE THE NEW CONVEYANCE MAY BE ENCASED IN A JOINT OF 150 PSI PRESSURE CLASS PIPE AT LEAST 18 FEET LONG AND TWO NOMINAL SIZES LARGER THAN THE NEW CONVEYANCE. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT FIVE FEET INTERVALS WITH SPACERS OR BE FILLED TO THE SPRING LINE WITH WASHED SAND. THE ENCASEMENT PIPE SHOULD BE CENTERED ON THE CROSSING AND BOTH ENDS SEALED WITH CEMENT GROUT OR MANUFACTURED SEAL.
8. INSTALL TWO-WAY CLEANOUTS AT ALL WASTWATER SERVICE CONNECTIONS 5' FROM BUILDING.

AS-BUILT DRAWING

The record drawing has been prepared, in part, based upon information supplied by others. While this information is believed to be reliable, BAKER-AICKLEN cannot assure its accuracy, and thus is not responsible for the accuracy of this record drawing set. If any errors or omissions which may have been incorporated into it as a result. Those relying on this record document are advised to obtain independent verification of its accuracy before applying it for any purpose.

BAKER-AICKLEN & ASSOCIATES, INC.
Engineers • Surveyors • GIS • Planning
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No.	DATE	REVISIONS	RECOM'D
1	27 FEB 2006	REVISED PARKING SHEETS C-9 THRU C-14, ADDED WATER METER PLAN SHEET C-13A, ADDED WASTEWATER PROFILE SHEET C-18, ENTRY SHEET C-12, REVISED SIDEWALK @ MAIN ENTRY SHEET C-9 & THRU C-14	
		ADDED ADDITIONAL PARKING SHEET C-11, ADDED PLAYSCAPE / PLAY YARD SHEET C-12, ADDED DUMPSTER LOCATION SHEET C-14	

SHEET TITLE: WASTEWATER PLAN

DESIGNED: AAP | DWG. NAME: jrbs_wastewater.dwg | DATE: Apr 27, 2009
DRAWN: ASP | LAYOUT: wastewater | VIEW:
APPROVED: AAP | LAYER STATE: wastewater

CLIENT: Y.M.C.A. OF GREATER WILLIAMSON COUNTY

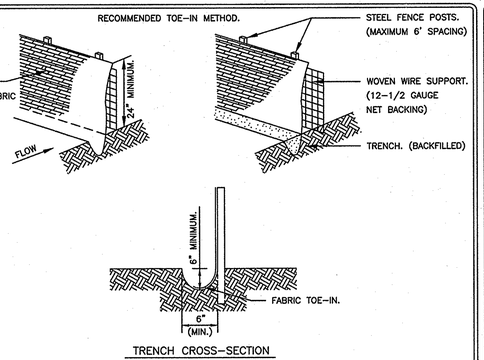
PROJECT: ROUND ROCK Y.M.C.A. PARKING LOT EXPANSION (PHASE 2)

PROJECT No. 0129-3-010-21

SHEET No. C-14

14 OF 24

IMAGES:
XREFS: - "24X36vertical_YMCA.dwg" • JoeSeal.dwg • "ba-survey-demo-YMCA.dwg" • "ba-survey-demo-YMCA.dwg" • "arch-base-YMCA.dwg" • "ba-phase-YMCA.dwg" • "JoeSeal.dwg"

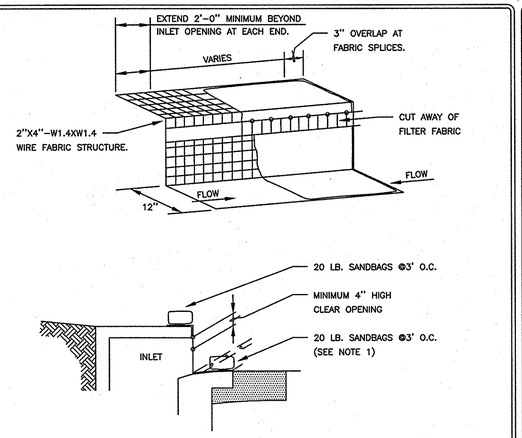


TRENCH CROSS-SECTION

NOTES:

1. SILT FENCE SHALL CONFORM TO CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL, SECTION 1, WATER QUALITY MANAGEMENT, 1.4.2G SILT FENCE.
2. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MIN. OF ONE (1') FOOT.
3. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G. PAVEMENT) WEIGHT FABRIC FLAP WITH WASHED GRAVEL ON UPHILL SIDE TO PREVENT FLOW UNDER FENCE.
4. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
5. SILT FENCE SHALL BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS SECURELY FASTENED TO THE STEEL FENCE POSTS.
6. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
7. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
8. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES. THE SILT SHALL BE DISPOSED OF IN AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

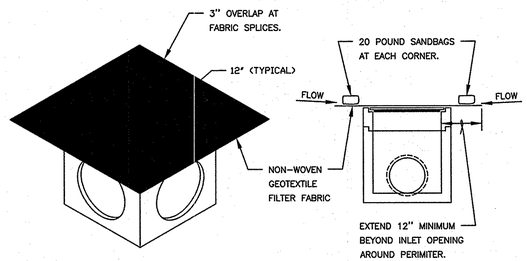
RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO:
APPROVED 08-21-03 DATE	SILT FENCE DETAIL	EC-02
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		ROUND ROCK, TEXAS PURPOSE BUILT PROPERTY



NOTES:

1. WHERE MINIMUM CLEARANCES CAUSE TRAFFIC TO DRIVE IN THE GUTTER, THE CONTRACTOR MAY SUBSTITUTE A 1" X 4" BOARD SECURED WITH CONCRETE NAILS 3' O.C. NAILED INTO THE GUTTER IN LIEU OF SANDBAGS TO HOLD THE FILTER DIKE IN PLACE. UPON REMOVAL, CLEAN ANY DIRT/DEBRIS FROM NAILING LOCATIONS, APPLY CHEMICAL SANDING AGENT AND APPLY NON-SHRINK GROUT FLUSH WITH SURFACE OF GUTTER.
2. A SECTION OF FILTER FABRIC SHALL BE REMOVED AS SHOWN ON THIS DETAIL OR AS DIRECTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR HOG RINGS AT THIS LOCATION.
3. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2".
4. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY REMOVE THE INLET PROTECTIONS IF THE STORM-WATER BEGINS TO OVERTOP THE CURB.
5. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO:
APPROVED 08-21-03 DATE	CURB INLET PROTECTION DETAIL	E-03
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		



NOTES:

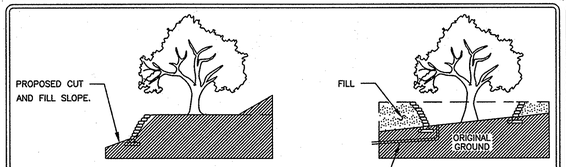
1. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2".
2. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY CLEAN THE INLET PROTECTION IF EXCESSIVE PONDING OCCURS.
3. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO:
APPROVED 08-21-03 DATE	AREA INLET PROTECTION DETAIL	E-04
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		ROUND ROCK, TEXAS PURPOSE BUILT PROPERTY

1. ALL TREES NOT LOCATED WITHIN THE LIMITS OF CONSTRUCTION AND OUTSIDE OF DISTURBED AREAS SHALL BE PRESERVED. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL TREES TO BE PRESERVED FROM HIS ACTIVITIES.
2. ALL TREES SHOWN TO BE RETAINED WITHIN THE LIMITS OF CONSTRUCTION ON THE PLANS, SHALL BE PROTECTED DURING CONSTRUCTION WITH FENCING. SEE: TREE PROTECTION TREE WELLS (EC-06), TREE PROTECTION TREE LOCATION (EC-07) AND TREE PROTECTION FENCE-CHAIN LINK (EC-08).
3. TREE PROTECTION FENCES SHALL BE ERECTED ACCORDING TO CITY STANDARDS FOR TREE PROTECTION, INCLUDING TYPES OF FENCING AND SIGNAGE.
4. TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING, OR GRADING) AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE CONSTRUCTION PROJECT.
5. EROSION AND SEDIMENTATION CONTROL BARRIERS SHALL BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILD-UP WITHIN TREE DRIPLINES.
6. FENCES SHALL COMPLETELY SURROUND THE TREE OR CLUSTERS OF TREES, LOCATED AT THE OUTERMOST LIMITS OF THE TREE BRANCHES (DRIPLINE) OR CRITICAL ROOT ZONE (CRZ), WHICHEVER IS GREATER; AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT IN ORDER TO PREVENT THE FOLLOWING:
   A) SOIL COMPACTION IN CRZ AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIAL.
   B) CRZ DISTURBANCES DUE TO GRADE CHANGES OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE FORESTRY MANAGER.
   C) WOUNDS TO EXPOSED ROOTS, TRUNK, OR LIMBS BY MECHANICAL EQUIPMENT
   D) OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CONCRETE TRUCK CLEANING, AND FIRES.
7. EXCEPTIONS TO INSTALLING TREE FENCES AT THE TREE DRIPLINES OR CRZ, WHICHEVER IS GREATER, MAY BE PERMITTED IN THE FOLLOWING CASES:
   A) WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, OR TREE WELL;
   B) WHERE PERMEABLE PAVING IS TO BE INSTALLED, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA.
   C) WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE NO CLOSER THAN 6 FEET TO THE BUILDING.
   D) WHERE THERE ARE SEVERE SPACE CONSTRAINTS DUE TO TRACT SIZE, OR OTHER SPECIAL REQUIREMENTS, CONTACT THE FORESTRY MANAGER TO DISCUSS ALTERNATIVES.
8. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE THAT IS CLOSER THAN 5 FEET TO A TREE TRUNK, THE TRUNK SHALL BE PROTECTED BY STRAPPED-ON PLANKING TO A HEIGHT OF 8 FEET (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING PROVIDED.
9. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN AREAS OF UNPROTECTED ROOT ZONES UNDER THE DRIPLINE OR CRZ, WHICHEVER IS GREATER, THOSE AREAS SHOULD BE COVERED WITH 4 INCHES OF ORGANIC MULCH TO MINIMIZE SOIL COMPACTION.
10. ALL GRADING WITHIN CRZ AREAS SHALL BE DONE BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE. PRIOR TO GRADING, RELOCATE PROTECTIVE FENCING TO 2 FEET BEHIND THE GRADE CHANGE AREA.
11. ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL AND BACKFILLED WITH GOOD QUALITY TOP SOIL WITHIN TWO DAYS. IF EXPOSED ROOT AREAS CANNOT BE BACKFILLED WITHIN 2 DAYS, AN ORGANIC MATERIAL WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION SHALL BE PLACED TO COVER THE ROOTS UNTIL BACKFILL CAN OCCUR.
12. PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE DRIPLINES, A CLEAN CUT SHALL BE MADE WITH A ROCK SAW OR SIMILAR EQUIPMENT, IN A LOCATION AND TO A DEPTH APPROVED BY THE FORESTRY MANAGER, TO MINIMIZE DAMAGE TO REMAINING ROOTS.
13. TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES WILL BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TREE CROWNS ARE TO BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON LEAVES.
14. WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, A PLASTIC VAPOR BARRIER SHALL BE PLACED BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE CRZ.
15. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
16. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN FOUR (4) INCHES SHALL BE PERMITTED WITHIN THE DRIPLINE OR CRZ OF TREES, WHICHEVER IS GREATER. NO TOPSOIL IS PERMITTED ON ROOT FLARES OF ANY TREE.
17. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC, AND CONSTRUCTION EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS. ALL PRUNING MUST BE DONE ACCORDING TO CITY STANDARDS AND AS OUTLINED IN LITERATURE PROVIDED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA PRUNING TECHNIQUES).
18. ALL OAK TREE CUTS, INTENTIONAL OR UNINTENTIONAL, SHALL BE SEALED WITH AN APPROVED PRUNING SEALER IMMEDIATELY (WITHIN 10 MINUTES). TREE PAINT MUST BE KEPT ON SITE AT ALL TIMES.
19. THE FORESTRY MANAGER HAS THE AUTHORITY TO REQUIRE ADDITIONAL TREE PROTECTION BEFORE OR DURING CONSTRUCTION.
20. TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED. REFER TO THE CITY OF ROUND ROCK TREE TECHNICAL MANUAL FOR APPROPRIATE REMOVAL METHODS.
21. PRIOR TO CONSTRUCTION, ALL LOWER TREE LIMBS OVER ROADWAYS MUST BE PRUNED TO A HEIGHT OF 14 FEET USING THE TECHNIQUES DESCRIBED IN THE CITY OF ROUND ROCK TREE TECHNICAL MANUAL.
22. DEVIATIONS FROM THE ABOVE REQUIREMENTS AND NEGLIGENT DAMAGE TO TREES MAY BE CONSIDERED AS ORDINANCE VIOLATIONS.

FOR QUESTIONS CONCERNING THIS DETAIL, PLEASE CONTACT THE FORESTRY MANAGER.

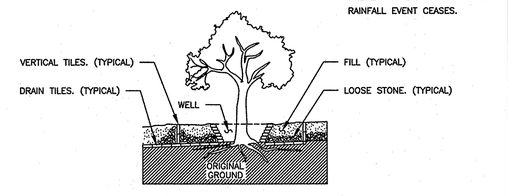
RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO:
APPROVED 07-11-06 DATE	TREE PROTECTION NOTES	EC-05
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		ROUND ROCK, TEXAS PURPOSE BUILT PROPERTY



PERMANENT PROTECTIVE WALL

OPEN TREE WELL

PROVIDE DRAIN AS NECESSARY TO PREVENT WATER PONDING AFTER A RAINFALL EVENT CEASES.



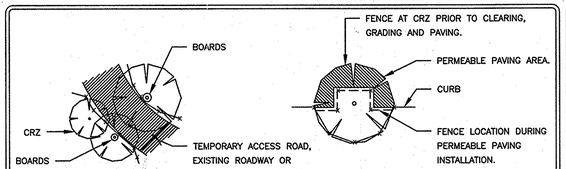
TREE WELL WITH RAISED GRADE

NOTE:

LOCATION, TYPE, DEPTHS AND CONSTRUCTION SPECIFICATIONS OF FILL, DRAINS AND WALLS SHALL BE SUBJECT TO THE APPROVAL OF THE FORESTRY MANAGER.

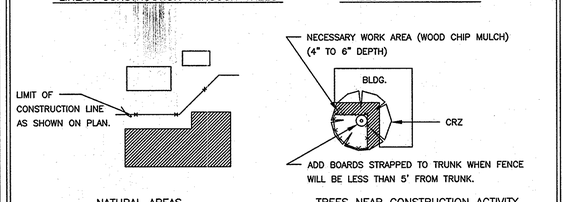
FOR QUESTIONS CONCERNING THIS DETAIL, PLEASE CONTACT THE FORESTRY MANAGER.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO:
APPROVED 07-11-06 DATE	TREE PROTECTION TREE WELLS	EC-06
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		ROUND ROCK, TEXAS PURPOSE BUILT PROPERTY



LINEAR CONSTRUCTION THROUGH TREES

TREES IN PAVING AREA

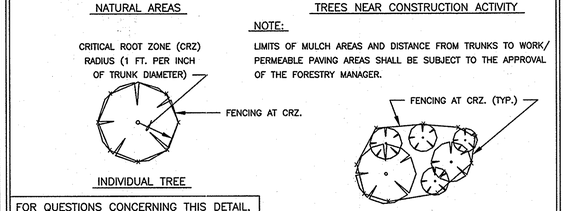


NATURAL AREAS

TREES NEAR CONSTRUCTION ACTIVITY

NOTE:

LIMITS OF MULCH AREAS AND DISTANCE FROM TRUNKS TO WORK/PERMEABLE PAVING AREAS SHALL BE SUBJECT TO THE APPROVAL OF THE FORESTRY MANAGER.

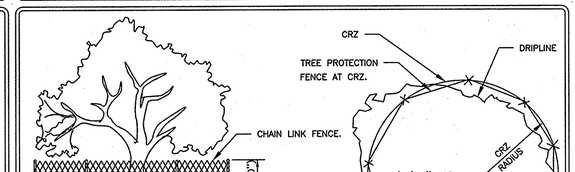


INDIVIDUAL TREE

GROUP OF TREES

FOR QUESTIONS CONCERNING THIS DETAIL, PLEASE CONTACT THE FORESTRY MANAGER.

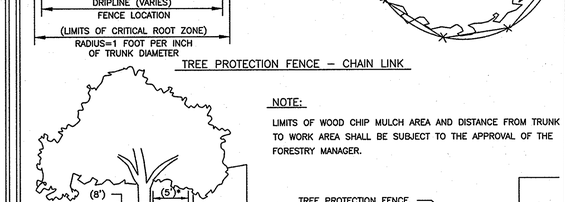
RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO:
APPROVED 07-11-06 DATE	TREE PROTECTION FENCE LOCATIONS	EC-07
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		ROUND ROCK, TEXAS PURPOSE BUILT PROPERTY



TREE PROTECTION FENCE - CHAIN LINK

NOTE:

LIMITS OF WOOD CHIP MULCH AREA AND DISTANCE FROM TRUNK TO WORK AREA SHALL BE SUBJECT TO THE APPROVAL OF THE FORESTRY MANAGER.



TREE PROTECTION FENCE (MODIFIED) - CHAIN LINK

FOR QUESTIONS CONCERNING THIS DETAIL, PLEASE CONTACT THE FORESTRY MANAGER.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO:
APPROVED 07-11-06 DATE	TREE PROTECTION FENCE - CHAIN LINK	EC-08
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		ROUND ROCK, TEXAS PURPOSE BUILT PROPERTY

BAKER-AICKLEN & ASSOCIATES, INC.
Engineers • Surveyors • GIS • Planning
527 W. LIBERTY AVE.
ROUND ROCK, TX 78664
(512) 244-9620

No.	DATE	REVISIONS	RECOM'D

SHEET TITLE: DETAILS SHEET 1 OF 6

DESIGNED: AAP | DWG. NAME: jms_detail.dwg | DATE: Apr 27, 2009
DRAWN: JEL | LAYOUT: detail & tp | VIEW:
APPROVED: AAP | LATER STATE: detail & tp

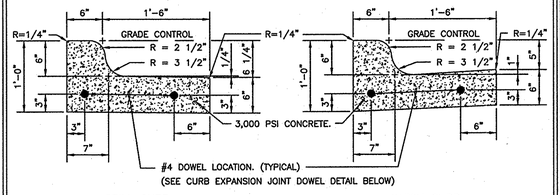
CLIENT: Y.M.C.A. OF GREATER WILLIAMSON COUNTY

PROJECT: ROUND ROCK Y.M.C.A. PARKING LOT EXPANSION (PHASE 2)

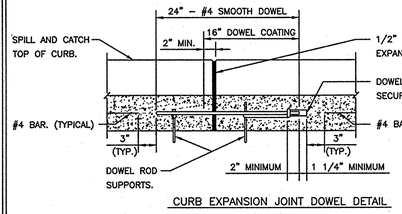
PROJECT No. 0129-3-010-21

SHEET No. C-15
15 OF 24

IMAGES: * CITY OF ROUND ROCK LOGO.jpg
XREFS: * 24X36reverticol_YMCA.dwg * JoeSeal.dwg * WW_PROFILE.dwg



SPILL CURB CATCH CURB

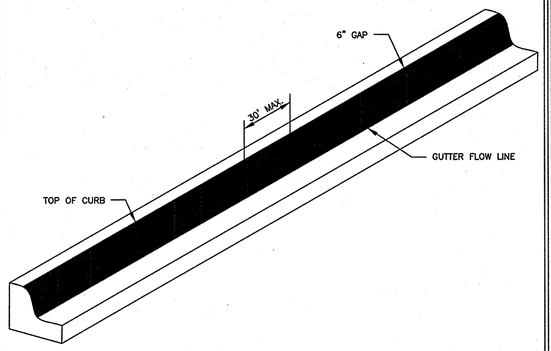


CURB EXPANSION JOINT DOWEL DETAIL

NOTES:

1. ALL WORK AND MATERIAL SHALL CONFORM TO ASTM A615, A615M, C309 AND D1752. BROOM FINISH EXPOSED SURFACE.
2. CONTROL JOINT SPACING SHALL NOT EXCEED 10'–0'.
3. EXPANSION JOINTS AS PER STANDARD ASTM D–1752.
4. EXPANSION JOINT INTERVALS NOT TO EXCEED 40'–0" FOR ALL CURBS AND CONSTRUCTION METHODS.
5. ALL CURBS SHALL HAVE A MINIMUM OF 4" OF COMPACTED FLEXIBLE BASE BETWEEN BOTTOM OF CURB AND TOP SUBGRADE THAT SHALL EXTEND A MINIMUM OF 18" BEHIND BACK OF CURB. TOTAL DEPTH OF FLEXIBLE BASE UNDER AND BEHIND CURB SHALL BE: (TOTAL DEPTH OF FLEXIBLE BASE) LESS (6–INCHES).
6. ALL CURBS SHALL CONFORM TO THESE DETAILS INDEPENDANT OF THE CONSTRUCTION METHODS USED.

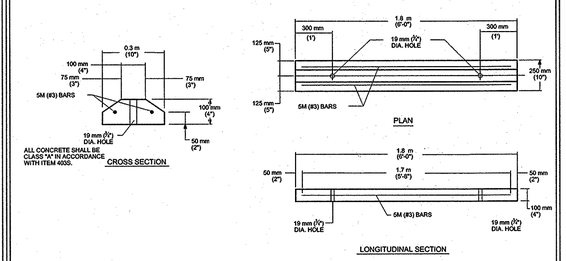
RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: ST–05
APPROVED 08–21–03 DATE	SPILL AND CATCH CURB DETAIL (WITH CURB EXPANSION JOINT DOWEL DETAIL)	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		



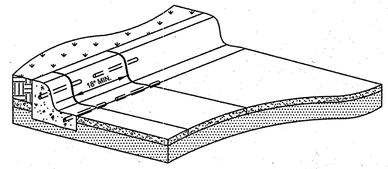
NOTES:

FIRE LANE STRIPING TO BE 6" WIDE RED PAINT WITH "NO PARKING FIRE LANE" IN 4" TALL WHITE LETTERS. WORDING MAY NOT BE SPACED GREATER THAN 30' APART. STRIPING TO BE PAINTED ON THE FACE OF CURB WHEN PRESENT AND PAINTED FLAT ON THE PARKING SURFACE WHEN IT IS NOT.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: ST–13
APPROVED 02–10–06 DATE	FIRE LANE MARKING DETAIL	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		



PARKING LOT BUMPER CURB
NTS



CURB CUT REPAIR PROCEDURES:

PROCEDURE OUTLINE:

A. SAW CUT AND REMOVE EXISTING CURB AND GUTTER A MINIMUM OF 18" OR PAST ALL CURB AND GUTTER DISTURBED BY WORK, WHICHEVER IS GREATER.

B. INSTALL COMPACTED CEMENT STABILIZED BASE OF MIN. 6" THICKNESS AND MIN. 18" BEHIND CURB ON COMPACTED SUBGRADE.

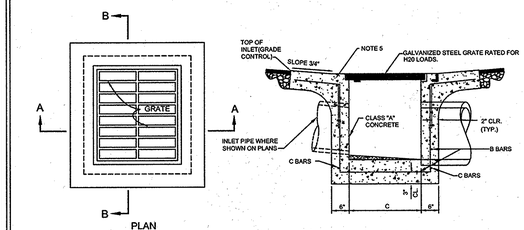
C. PROVIDE REBAR DOWEL INTO EXISTING CURB AND GUTTER, POUR NEW CURB AND GUTTER AND PROVIDE TOOLED JOINT BETWEEN NEW AND EXISTING.

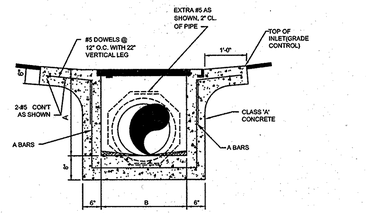
D. REMOVE FORMS AND BACKFILL BEHIND CURB.

E. RESTORE VEGETATION.

F. FOLLOW "STREET CUT REPAIR PROCEDURES".

City of Round Rock		
Scale: N.T.S.	Approved / Date	Drawn by: A. GIRARD
CURB REPAIR DETAIL		DETAIL NO.





GRATE OPEN AREA CHART

GRATE SIZE	OPEN AREA SF	OPEN AREA W/ 50% CLOGGING FACTORS /SF
48" X 48"	14.22	7.11
36" X 36"	8.35	4.18
24" X 24"	2.30	1.15
18" X 18"	1.22	0.61

INLET DIMENSIONS

TYPE	A	B	C
I	MIN. 48"	48"	48"
II	MIN. 36"	36"	36"
III	MIN. 24"	24"	24"
IV	MIN. 18"	18"	18"

INLET CAPACITIES

TYPE	CFS W/ h = 0.50'
I	24.21
II	14.23
III	3.92
IV	2.08

BAR SCHEDULE

BAR	SPACING	SIZE
A	12" O.C.	5
B	12" O.C.	5
C	12" O.C.	5
D	12" O.C.	5

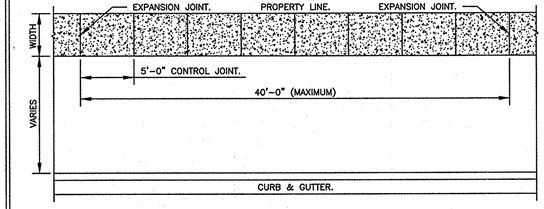
INLET EQUATION

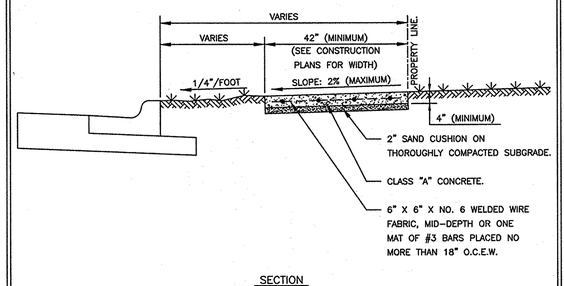
Q = 0.6Ai(2gh)^½
CLOGGING FACTOR = 50%
2g = 64.4
h = 0.50'

GRATES ARE QUICK SET BY DALWORTH, CONCRETE PRODUCTS, OR APPROVED EQUAL.

NOTES
1. SEE PLANS FOR TOP OF INLET AND PIPE ELEVATIONS.
2. MATERIALS AS NOTED OR SPECIFIED.
3. SEE PLANS FOR PIPE SIZE AND ORIENTATIONS.
4. GRATE AND FRAME SHALL BE MADE OUT OF GRAY IRON WITH A MINIMUM TENSILE STRENGTH OF 30,000 P.S.I.
5. NO CONSTRUCTION JOINT ALLOWED IN LIPS OF INLET.

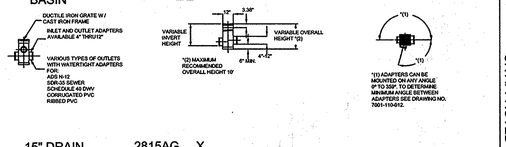
AREA INLET DETAIL
NTS



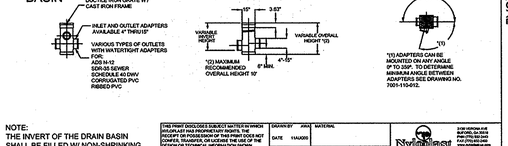


RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: ST–01
APPROVED 07–11–06 DATE	SIDEWALK DETAIL	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		

12" DRAIN BASIN 2812AG__X



15" DRAIN BASIN 2815AG__X



NOTE:
THE INVERT OF THE DRAIN BASIN SHALL BE FILLED W/ NON-SHRINKING GROUT TO THE FLOW LINE OF THE BASIN.

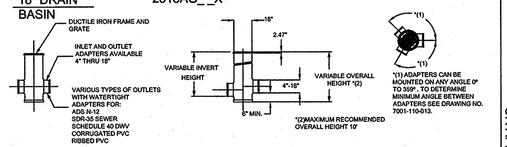
DRAWN BY: AWA	MATERIAL:
DATE: 11AUG09	
APPD BY: CJA	PROJECT NO./NAME:
DATE: 11AUG09	DRAIN BASIN
DWG SIZE: A	SCALE: 1:10 SHEET: 1 OF 1

Nyloplast 9120 VERDON AVE BAFFORD, GA 30818 PHN (770) 932-2443 FAX (770) 932-2453 www.nyloplastusa.com

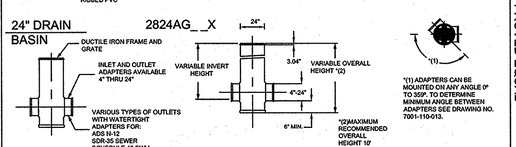
TITLE: 12" & 15" DESIGN DETAILS

DWG NO.: 7001-110-006 REV: B

18" DRAIN BASIN 2818AG__X



24" DRAIN BASIN 2824AG__X



NOTE:
THE INVERT OF THE DRAIN BASIN SHALL BE FILLED W/ NON-SHRINKING GROUT TO THE FLOW LINE OF THE BASIN.

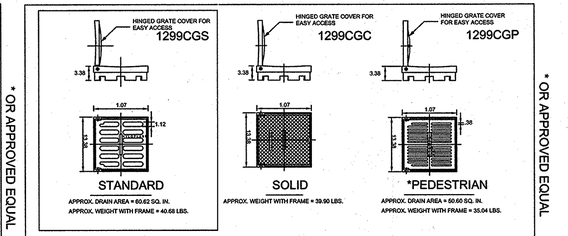
DRAWN BY: AWA	MATERIAL:
DATE: 11AUG09	
APPD BY: CJA	PROJECT NO./NAME:
DATE: 11AUG09	DRAIN BASIN
DWG SIZE: A	SCALE: 1:10 SHEET: 1 OF 1

Nyloplast 9120 VERDON AVE BAFFORD, GA 30818 PHN (770) 932-2443 FAX (770) 932-2453 www.nyloplastusa.com

TITLE: 18" & 24" DESIGN DETAILS

DWG NO.: 7001-110-007 REV: B

* OR APPROVED EQUAL



NYLOPLAST 12" GRATES/COVERS

STANDARD GRATE HAS H-25 HEAVY DUTY RATING
SOLID COVER HAS H-25 HEAVY DUTY RATING
PEDESTRIAN GRATE HAS H-10 MEDIUM DUTY RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05 & A48-CLASS 30B
MATERIAL: DUCTILE IRON GRATE W/CAST IRON FRAME
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST
PRICE INCLUDES FRAME & GRATE/COVER

* SIZE OF OPENING MEETS REQUIREMENTS OF AMERICAN DISABILITY ACT AS STATED IN FEDERAL REGISTER PART III, DEPARTMENT OF JUSTICE, 28 CFR PART 36. NONDISCRIMINATION ON THE BASIS OF DISABILITY BY PUBLIC ACCOMMODATIONS AND IN COMMERCIAL FACILITIES; FINAL RULE.

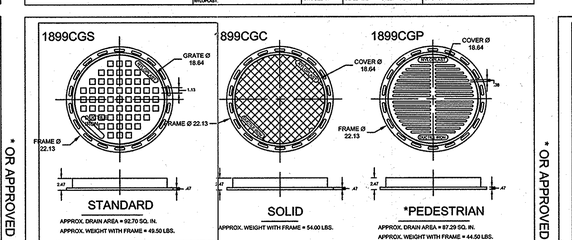
DRAWN BY: AWA	MATERIAL: DUCTILE IRON
DATE: 11AUG09	
APPD BY: CJA	PROJECT NO./NAME: GRATE / COVER
DATE: 11AUG09	
DWG SIZE: A	SCALE: 1:2 SHEET: 1 OF 1

Nyloplast 9120 VERDON AVE BAFFORD, GA 30818 PHN (770) 932-2443 FAX (770) 932-2453 www.nyloplastusa.com

TITLE: 12" STANDARD, SOLID & PEDESTRIAN

DWG NO.: 7001-110-006 REV: C

* OR APPROVED EQUAL



NYLOPLAST 18" GRATES/COVERS

STANDARD GRATE HAS H-25 HEAVY DUTY RATING
SOLID COVER HAS H-25 HEAVY DUTY RATING
PEDESTRIAN GRATE HAS H-10 MEDIUM DUTY RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
MATERIAL: DUCTILE IRON
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST
PRICE INCLUDES FRAME & GRATE/COVER

* SIZE OF OPENING MEETS REQUIREMENTS OF AMERICAN DISABILITY ACT AS STATED IN FEDERAL REGISTER PART III, DEPARTMENT OF JUSTICE, 28 CFR PART 36. NONDISCRIMINATION ON THE BASIS OF DISABILITY BY PUBLIC ACCOMMODATIONS AND IN COMMERCIAL FACILITIES; FINAL RULE.

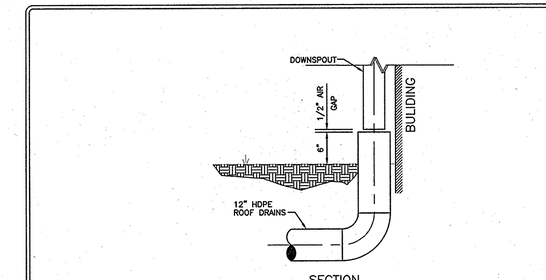
DRAWN BY: AWA	MATERIAL: DUCTILE IRON
DATE: 11AUG09	
APPD BY: CJA	PROJECT NO./NAME: GRATE / COVER
DATE: 11AUG09	
DWG SIZE: A	SCALE: 1:2 SHEET: 1 OF 1

Nyloplast 9120 VERDON AVE BAFFORD, GA 30818 PHN (770) 932-2443 FAX (770) 932-2453 www.nyloplastusa.com

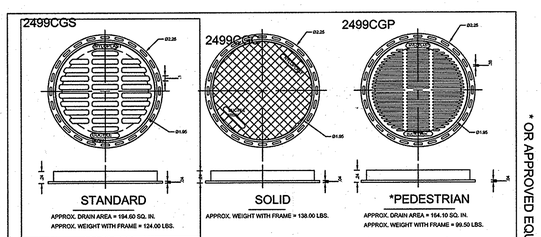
TITLE: 18" STYLE 24" STANDARD, SOLID & PEDESTRIAN

DWG NO.: 7001-110-015 REV: C

* OR APPROVED EQUAL



ROOF DRAIN CONNECTOR
NTS



NYLOPLAST 24" GRATES/COVERS

STANDARD GRATE HAS H-25 HEAVY DUTY RATING
SOLID COVER HAS H-25 HEAVY DUTY RATING
PEDESTRIAN GRATE HAS H-10 MEDIUM DUTY RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
MATERIAL: DUCTILE IRON
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST
PRICE INCLUDES FRAME & GRATE/COVER

* SIZE OF OPENING MEETS REQUIREMENTS OF AMERICAN DISABILITY ACT AS STATED IN FEDERAL REGISTER PART III, DEPARTMENT OF JUSTICE, 28 CFR PART 36. NONDISCRIMINATION ON THE BASIS OF DISABILITY BY PUBLIC ACCOMMODATIONS AND IN COMMERCIAL FACILITIES; FINAL RULE.

AS-BUILT DRAWING

Information contained on this drawing has been prepared, in part, based upon information furnished by others. While this information is believed to be reliable, BAKER-AICKLEN cannot assure its accuracy and thus is not responsible for the accuracy of this record drawing or for any errors or omissions which may have been incorporated into it as a result. Those relying on this record drawing for any purpose do so at their own risk and agree by reliance thereon to hold BAKER-AICKLEN harmless from any and all damages of any nature arising out of its accuracy or lack thereof.

DRAWN BY: AWA	MATERIAL:
DATE: 11AUG09	
APPD BY: CJA	PROJECT NO./NAME: GRATE / COVER
DATE: 11AUG09	
DWG SIZE: A	SCALE: 1:3 SHEET: 1 OF 1

Nyloplast 9120 VERDON AVE BAFFORD, GA 30818 PHN (770) 932-2443 FAX (770) 932-2453 www.nyloplastusa.com

TITLE: 24" STANDARD, SOLID & PEDESTRIAN

DWG NO.: 7001-110-001 REV: C

* OR APPROVED EQUAL

BAKER-AICKLEN & ASSOCIATES, INC.
Engineers • Surveyors • GIS • Planning
527 W. LIBERTY AVE.
ROUND ROCK, TX 78664
(512) 244-9520

No.	DATE	REVISIONS	RECOM'D

SHEET TITLE: DETAILS SHEET 2 OF 6

DESIGNED: AAP
DRAWN: JSU
APPROVED: AAP

DWG. NAME: pcs_details.dwg
LAYOUT NAME: 24x36
LATER STATE: 24x36

DATE: Apr 27, 2009
VIEW:

CLIENT: Y.M.C.A. OF GREATER WILLIAMSON COUNTY

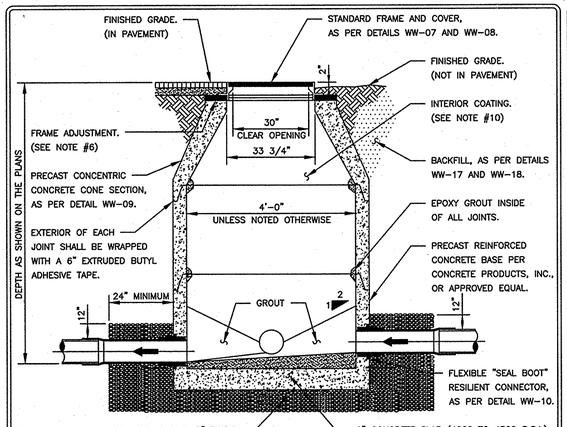
PROJECT: ROUND ROCK Y.M.C.A. PARKING LOT EXPANSION (PHASE 2)

PROJECT No. 0129-3-010-21

SHEET No. C-16

16 OF 24

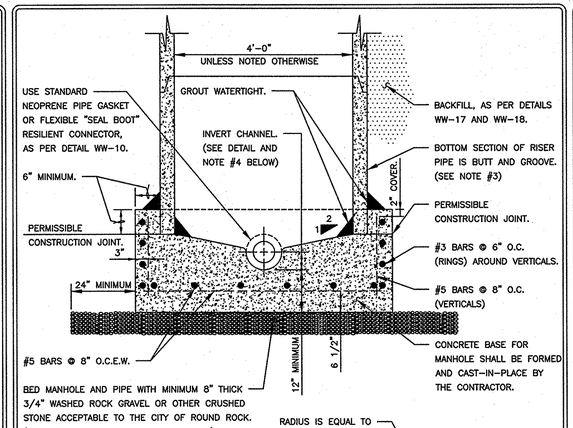
IMAGES: * CITY OF ROUND ROCK LOGO.jpg
XREFS: * 24X36rrwitrical_YMCA.dwg * 30x5sat.dwg * WW_PROFILE.dwg



NOTES:

1. IF DROP IS SIX INCHES (6") TO TWO FEET (2'-0"), CONSTRUCTION OF DROP SHALL PROVIDE AN OVERSIZED INVERT TO EXTEND UNDER THE DROP CONNECTION.
2. SEE CONSTRUCTION PLANS FOR MANHOLE SIZE, LOCATION, CONFIGURATION, TYPE OF TOP SECTION, VENTING REQUIREMENTS, PIPE SIZES AND TYPES.
3. MANHOLES SHALL BE PRECAST ASTM C478 BELL AND SPIGOT WITH "O" RING JOINTS.
4. MANHOLES TO BE DESIGNED TO RESIST LATERAL AND VERTICAL SOIL FORCES RESULTING FROM MANHOLE DEPTH. ADDITIONALLY, MANHOLES LOCATED IN PAVEMENT TO BE DESIGNED FOR H20 TRAFFIC LOADING.
5. ALL MANHOLE COVERS SHALL BE BOLTED AND GASKETED, WHEN MANHOLES ARE LOCATED OUTSIDE OF PAVEMENT.
6. FRAME ADJUSTMENT HEIGHT SHALL CONSIST OF FIVE INCHES (5") MINIMUM TO EIGHTEEN INCHES (18") MAXIMUM. GRADE RINGS SHALL BE WRAPPED WITH A HEAT-SHRINK THERMO-PLASTIC MATERIAL. HDPE GRADE RINGS, AS MANUFACTURED BY LABTECH, INCORPORATED, OR APPROVED EQUAL, MAY BE USED IN PAVEMENT AREAS ONLY.
7. FOR MANHOLES TO BE VENTED, SEE DETAILS WW-05 AND WW-06.
8. A FLOW CHANNEL SHALL BE CONSTRUCTED INSIDE MANHOLE TO DIRECT INFLUENT INTO THE FLOW STREAM. ALL P.V.C. PIPE SHALL BE REMOVED FROM INVERT.
9. BASE SECTION SHALL BE DESIGNED FOR H20 LOADING, PLUS EARTH LOAD AT 130 PCF.
10. ENTIRE INTERIOR OF WASTEWATER MANHOLES TO BE COATED WITH RAVEN 405, OR APPROVED EQUAL, WITH A UNIFORM THICKNESS OF 124 MILS AND A MINIMUM THICKNESS OF 100 MILS, APPLIED AFTER MANHOLE HAS PASSED THE VACUUM TEST.

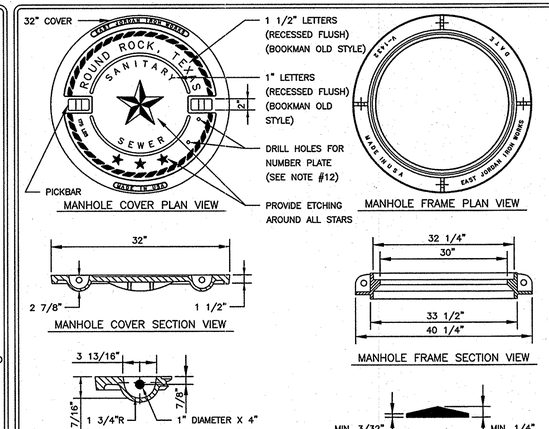
RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: WW-01
APPROVED 08-25-04 DATE	PRECAST CONCRETE WASTEWATER MANHOLE DETAIL	ROUND ROCK, TEXAS PURPOSE DRIVEN PROGRESS
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		



NOTES:

1. CAST-IN-PLACE BASE SHALL BE 4000 TO 4500 P.S.I. CONCRETE, 28 DAY STRENGTH.
2. STEEL SHALL BE GRADE 60.
3. MANHOLE RISER PIPE FURNISHED IN LENGTHS OF ONE (1), TWO (2), THREE (3), FOUR (4) OR SIX (6) FEET AND SHALL BE IN ACCORDANCE WITH ASTM C478.
4. INVERT CHANNEL SHALL BE PROVIDED THAT AS MUCH AS POSSIBLE, FORMS A SMOOTH CONTINUATION OF INLET AND OUTLET PIPES.
5. BASE SHALL BE PROPERLY FORMED IN THE FIELD WITH WOOD OR OTHER APPROVED FORMS.
6. VERTICAL BARS MAY BE EXTENSIONS OF BOTTOM STEEL OR SEPARATE FROM, BUT TIED TO BOTTOM STEEL.

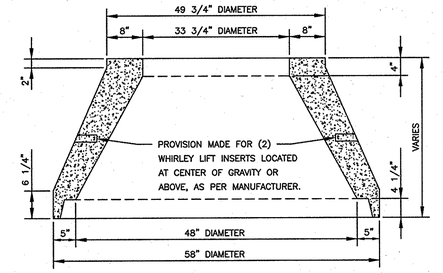
RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: WW-04
APPROVED 08-25-04 DATE	CAST-IN-PLACE BASE FOR CONCRETE WASTEWATER MANHOLE DETAIL	ROUND ROCK, TEXAS PURPOSE DRIVEN PROGRESS
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		



NOTES:

1. COVER AND FRAME SHALL COMPLY WITH STANDARD SPECIFICATIONS FOR DRAINAGE, SEWER, UTILITY AND RELATED CASTINGS: AASHTO DESIGNATION M306-04.
2. MANHOLE COVER SHALL BE MODEL NUMBER: V-1432-3 (PRODUCT NUMBER: 41432059), AS MANUFACTURED BY EAST JORDAN IRON WORKS, INCORPORATED, OR APPROVED EQUAL.
3. MANHOLE FRAME SHALL BE MODEL NUMBER: V-1432 (PRODUCT NUMBER: 41432010), AS MANUFACTURED BY EAST JORDAN IRON WORKS, INCORPORATED, OR APPROVED EQUAL.
4. MANHOLE COVER AND FRAME ASSEMBLY, IF ORDERED AS A SET, SHALL BE MODEL NUMBER: V-1432 (PRODUCT NUMBER: 41432089), AS MANUFACTURED BY EAST JORDAN IRON WORKS, INCORPORATED, OR APPROVED EQUAL.
5. ALL CORNERS AND EDGES SHALL HAVE A 1/16" MINIMUM AND 1/8" MAXIMUM RADIUS.
6. MANHOLE COVERS SHALL BE CAST WITH TWO 1" DIAMETER STEEL PICKBARS.
7. MANHOLE COVER WEIGHT SHALL BE 175 LBS. FOR DUCTILE IRON. WEIGHT SHALL BE CAST ON BOTH TOP AND BOTTOM OF COVER.
8. MANUFACTURER SHALL CERTIFY THAT EACH MANHOLE COVER MEETS HS-20 LOADING.
9. FILLETS SHALL BE 1/4" RADIUS UNLESS OTHERWISE SPECIFIED.
10. MANUFACTURER SHALL REMOVE EXCESS IRON AND MACHINE FINISH SEATING SURFACES TO NOTED DIMENSIONS.
11. COVER SHALL BE DIPPED IN A WATER-BASED ASPHALTIC COATING, PRIOR TO SHIPMENT FROM FOUNDRY.
12. MANUFACTURER SHALL DRILL 2-3/16"X1/2" DEEP HOLES FOR A MANHOLE NUMBER PLATE TO BE PROVIDED BY THE CITY OF ROUND ROCK. THE TOP HOLE SHALL BE DRILLED 1" O.C. FROM THE BOTTOM OF THE PICKBAR AND THE BOTTOM HOLE SHALL BE DRILLED 4" O.C. FROM THE TOP HOLE.

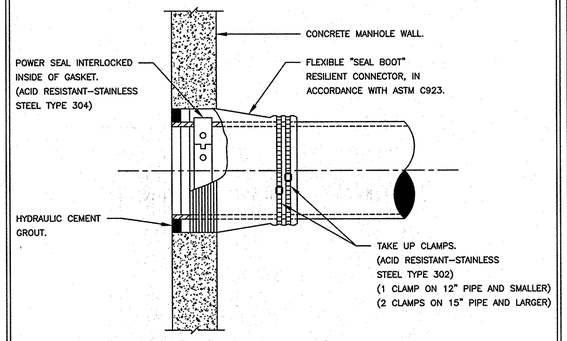
RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: WW-08
APPROVED 08-09-05 DATE	NON-BOLTED WASTEWATER MANHOLE COVER AND FRAME DETAIL	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		



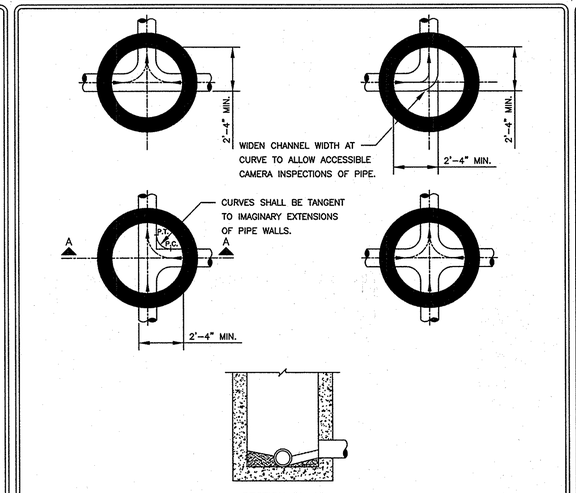
NOTE:

CONCENTRIC CONCRETE CONE SECTION SHALL BE MANUFACTURED USING 4000 TO 4500 P.S.I. CONCRETE, 28 DAY STRENGTH AND IN ACCORDANCE WITH ASTM C478, AS MANUFACTURED BY CONCRETE PRODUCTS, INCORPORATED, OR APPROVED EQUAL.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: WW-09
APPROVED 08-25-04 DATE	PRECAST 48" CONCENTRIC CONCRETE CONE SECTION DETAIL	ROUND ROCK, TEXAS PURPOSE DRIVEN PROGRESS
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		



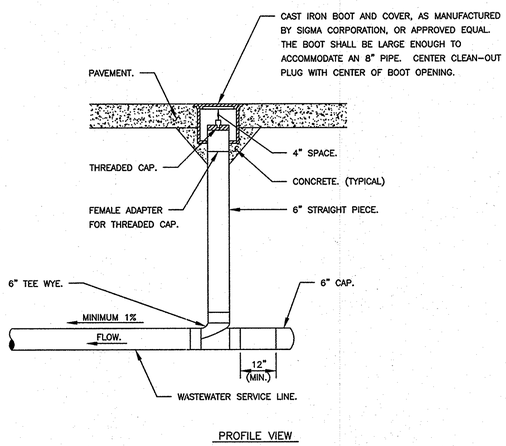
RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: WW-10
APPROVED 08-25-04 DATE	FLEXIBLE "SEAL BOOT" RESILIENT CONNECTOR DETAIL	ROUND ROCK, TEXAS PURPOSE DRIVEN PROGRESS
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		



NOTES:

1. MINIMUM DROP FROM INLET TO OUTLET OF MANHOLE IS 0.1 FEET AND MAXIMUM DROP IS 2.5 FEET, UNLESS SPECIAL APPROVAL IS OBTAINED FROM THE CITY OF ROUND ROCK.
2. INVERT CHANNELS TO BE CONSTRUCTED FOR SMOOTH FLOW WITH NO OBSTRUCTIONS.
3. SPILLWAYS SHALL BE CONSTRUCTED BETWEEN PIPES WITH DIFFERENT INVERT ELEVATIONS PROVIDING FOR SMOOTH FLOW.
4. CHANNELS FOR FUTURE CONSTRUCTIONS, SHALL BE CONSTRUCTED WITH PIPE EXTENDING 3' BEYOND EXTERIOR OF MANHOLE WALL, WITH GLUED PLUG.
5. SLOPE MANHOLE BENCH AT 2:1 SLOPE FROM MANHOLE WALL TO CHANNEL.
6. INVERT CHANNEL SHALL BE A MINIMUM OF 1/2 THE DIAMETER OF THE LARGEST PIPE OR FOUR INCHES (4") DEEP.

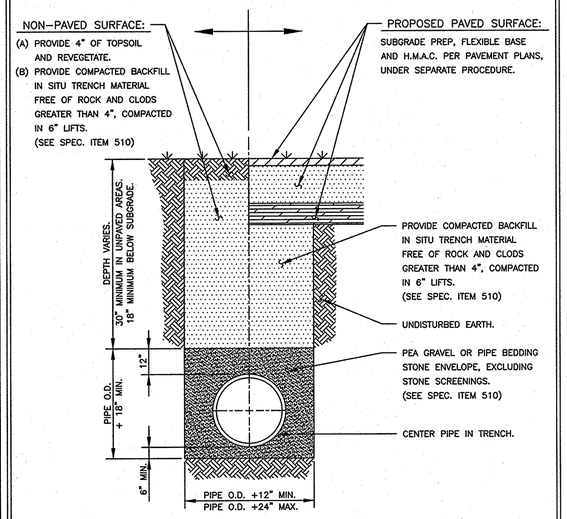
RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: WW-11
APPROVED 08-25-04 DATE	WASTEWATER FLOW PATTERNS FOR INVERT CHANNELS DETAIL	ROUND ROCK, TEXAS PURPOSE DRIVEN PROGRESS
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		



NOTES:

1. ALL PIPE AND FITTINGS TO BE SDR 26.
2. ALL FITTINGS SHALL BE SOLVENT WELD. CLEAR GLUE WILL NOT BE ACCEPTABLE.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: WW-13
APPROVED 08-25-04 DATE	WASTEWATER CLEAN-OUT DETAIL (PAVED SURFACE)	ROUND ROCK, TEXAS PURPOSE DRIVEN PROGRESS
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		



NOTE:

ALL TRENCHING AND TRENCH SAFETY SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: WW-18
APPROVED 08-25-04 DATE	WASTEWATER LINE BEDDING AND SURFACE REPAIR DETAIL (NON-PAVED & PROPOSED PAVED SURFACES)	ROUND ROCK, TEXAS PURPOSE DRIVEN PROGRESS
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		

BAKER-AICKLEN & ASSOCIATES, INC.
Engineers • Surveyors • GIS • Planning
507 W. LIBERTY AVE.
ROUND ROCK, TX 78664
(512) 244-9620

No.	DATE	REVISIONS	DATE	RECOMD

SHEET TITLE: DETAILS SHEET 3 OF 6

DESIGNED: AAP | DWG. NAME: ycca_details.dwg | DATE: Apr 27, 2009
DRAWN: JSL | LAYOUT: ...\dtl DETAILS (2) | VIEW:
APPROVED: AAP | LAYER STATE: ...\dtl DETAILS (2)

CLIENT: Y.M.C.A. OF GREATER WILLIAMSON COUNTY

PROJECT: ROUND ROCK Y.M.C.A. PARKING LOT EXPANSION (PHASE 2)

PROJECT No. 0129-3-010-21

SHEET No. C-17

17 OF 24

AS-BUILT Drawings

This record drawing has been prepared, in part, based upon information supplied by others. While this information is believed to be reliable, BAKER-AICKLEN cannot assure its accuracy, and thus is not responsible for the accuracy of this record drawing or for any errors or omissions which may have been incorporated into it as a result. Those relying on this record document are advised to obtain independent verification of its accuracy before relying in their own work.

IMAGES: * CITY OF ROUND ROCK LOGO.jpg
XREFS: * 24X36vertical_YMCA.dwg * JoeSeal.dwg * WW_PROFILE.dwg

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
ORGANIZED SEWAGE COLLECTION SYSTEM GENERAL CONSTRUCTION NOTES

1. This Organized Sewage Collection System must be designed and constructed in accordance with the Texas Commission on Environmental Quality's (TCEQ) Edwards Aquifer Rules 30 Texas Administrative Code (TAC) §213.5(c), the Design Criteria for Sewerage Systems 30 TAC §317.1, 30 TAC §317.2, 30 TAC §317.3, and 30 TAC §317.13, and the City of _____Standard Specifications.

2. All contractors conducting regulated activities associated with this proposed regulated project must be provided with copies of the Sewage Collection System plan and the TCEQ letter indicating the specific conditions of its approval. During the course of these regulated activities, the contractors must be required to keep on-site copies of the plan and the approval letter.

3. Prior to commencing any regulated activity, the applicant or his agent must notify the Austin Regional Office, in writing, of the date on which the regulated activity will begin.

4. Any modification to the activities described in the referenced SCS application following the date of approval may require the submittal of an SCS application to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval.

5. The temporary erosion and sedimentation controls must be installed prior to initiating any other construction activity and maintained in accordance with the requirements of the construction plans. All temporary erosion and sedimentation controls must be removed when the construction area is stabilized.

6. The sewer line trench details showing the cross section with the dimensions, pipe placement, and backfill instructions are included on Plan Sheet __ of __ of these plans. All sewer pipes joints must meet the requirements in 30 TAC §317.2(a)(3).

   Gravity lines must be SDR 35 or less. Pressurized sewer systems must have pipe with a minimum working pressure rating of 150 psi.

   The ASTM, ANSI, or AWWA specification numbers for the pipe(s) and joints are

   The pipe material, the pressure classes, and the SDR and/or DR designations are

7. If any sensitive features are discovered during the wastewater line trenching activities, all regulated activities near the sensitive feature must be suspended immediately. The owner must notify the appropriate regional office of the Texas Commission on Environmental Quality in writing within two working days of the feature discovered. The applicant must submit a plan for ensuring the structural integrity of the sewer line or for modifying the proposed collection system alignment around the feature. The regulated activities near the sensitive feature may not proceed until the executive director has reviewed and approved the methods proposed to protect the sensitive feature and the Edwards Aquifer from any potentially adverse impacts to water quality while maintaining the structural integrity of the line.

8. Sewer lines located within or crossing the 5-year floodplain of a drainageway will be protected from inundation and stream velocities which could cause erosion and scouring of backfill. The trench must be capped with concrete to prevent scouring of backfill, or the sewer lines must be encased in concrete. All concrete shall have a minimum thickness of six (6) inches.

9. Blasting procedures for protection of existing sewer lines and other utilities will be in accordance with the National Fire Protection Association criteria. Sand is not allowed as bedding or backfill in trenches that have been blasted. If any existing sewer lines are damaged, the lines must be repaired and retested.

10. All manholes constructed or rehabilitated on this project must have watertight size on size resilient connectors allowing for differential settlement. If manholes are constructed within the 100-year floodplain, the cover must have a gasket and be bolted to the ring. Where gasketed manhole covers are required for more than three manholes in sequence or for more than 1500 feet, alternate means of venting will be provided. Bricks are not an acceptable construction material for any portion of the manhole.

    The diameter of the manholes must be a minimum of four feet and the manhole covers must have a minimum nominal diameter of two feet. These dimensions and other details showing compliance with the commission's rules concerning manholes and sewer line/manhole inverts described in 30 TAC 317.2(c)(5)(E) are included on Plan Sheet __ of __.

    It is suggested that entrance into manholes in excess of four feet deep be accomplished by means of a portable ladder. Where steps are used, they shall be made of a non-corrosive material and be in accordance with applicable OSHA specifications.

11. Where water lines and new sewer line are installed with a separation distance closer than nine feet (i.e., water lines crossing wastewater lines, water lines paralleling wastewater lines, or water lines next to manholes) the installation must meet the requirements of 30 TAC §317.13 (Design of Sewerage Systems) or 30 TAC §290.44(e) (Water Hygiene).

12. Where sewers lines deviate from straight alignment and uniform grade all curvature of sewer pipe must be achieved by the following procedure which is recommended by the pipe manufacturer:_____

    If pipe flexure is proposed, the following method of preventing deflection of the joint must be used:

    _____.

    Specific care must be taken to ensure that the joint is placed in the center of the trench and properly bedded in accordance with 30 TAC §317.2(a)(5).

13. New sewage collection system lines must be constructed with "stub outs" for the connection of anticipated extensions. The location of such "stub outs" must be marked on the ground such that the location of such "stub outs" can be easily determined at the time of connection of the extensions. Such "stub outs" must be manufactured wyes or tees that are compatible in size and material with both the sewer line and the extension. At the time of original construction, new "stub-outs" must be constructed sufficiently to extend beyond the edge(s) of any street pavement under which they will pass to the property line. All "stub-outs" must be sealed with a manufactured cap to prevent leakage. Extensions that were not anticipated at the time of original construction or that are to be connected to an existing sewer line not furnished with "stub outs" must be connected using a manufactured saddle and in accordance with accepted plumbing techniques.

    If no stub-out is present an alternate method of joining laterals is shown in the detail on Plan Sheet __ of __. (For potential future laterals).

    The private service lateral stub-outs must be installed as shown on the plan and profile sheets on Plan Sheet __ of and marked after backfilling as shown in the detail on Plan Sheet __ of__.

14. Trenching, bedding and backfill must conform with 30 TAC §317.2(a)(5). The bedding and backfill for flexible pipe must comply with the standards of ASTM D-2321, Classes IA, IB, II or III. Rigid pipe bedding must comply with the requirements of ASTM C 12 (ANSI A 106.2) classes A, B or C.

15. Sewer lines must be tested from manhole to manhole. When a new sewer line is connected to an existing stub or clean-out, it must be tested from existing manhole to new manhole. If a stub or clean-out is used at the end of the proposed sewer line, no private service attachments may be connected between the last manhole and the cleanout unless it can be certified as conforming with the provisions of 30 TAC §213.5(c)(3)(E).

16. All sewer lines must be tested in accordance with 30 TAC §317.2(a)(4). The engineer must retain copies of all test results which must be made available to the executive director upon request. The engineer must certify in writing that all wastewater lines have passed all required testing to the appropriate regional office within 30 days of test completion and prior to use of the new collection system. Testing method will be:

    A. Infiltration or Exfiltration Tests. The total exfiltration as determined by a hydrostatic head test, must not exceed 50 gallons per inch diameter per mile of pipe per 24 hours at a minimum test head of two feet above the crown of the pipe at the upstream manhole. When pipes are installed below the groundwater level an infiltration test must be used in lieu of the exfiltration test. The total infiltration, as determined by a hydrostatic head test, must not exceed 50 gallons per inch diameter per mile of pipe per 24 hours at a minimum test head of two feet above the crown of the pipe at the upstream manhole, or at least two feet above existing groundwater level, whichever is greater. For construction within the 25 year flood plain, the infiltration or exfiltration must not exceed 10 gallons per inch diameter per mile of pipe per 24 hours at the same minimum test head. If the quantity of infiltration or exfiltration exceeds the maximum quantity specified, remedial action must be undertaken in order to reduce the infiltration or exfiltration to an amount within the limits specified.

    B. Low Pressure Air Test. The procedure for the low pressure air test must conform to the procedures described in ASTM C-828, ASTM C-924, ASTM F-1417 or other appropriate procedures, except for testing times. The test times must be as outlined in this section. For sections of pipe less than 36-inch average inside diameter, the following procedure must apply unless the pipe is to be joint tested. The pipe must be pressurized to 3.5 psi greater than the pressure exerted by groundwater above the pipe. Once the pressure is stabilized, the minimum time allowable for the pressure to drop from 3.5 pounds per square inch gauge to 2.5 pounds per square inch gauge must be computed from the following equation:

where: $$T = \frac{0.085 x D x K}{Q}$$

T = time for pressure to drop 1.0 pound per square inch gauge in seconds
K = 0.000419 X D X L, but not less than 1.0
D = average inside pipe diameter in inches
L = length of line of same size being tested, in feet
Q = rate of loss, 0.0015 cubic feet per minute per square foot internal surface will be used.

Since a K value of less than 1.0 will not be used, there are minimum times for each pipe diameter as outlined below:

Pipe Diameter (inches)	Minimum Time (seconds)	Length for Minimum (feet)	Time for Longer Length (seconds)
6	340	398	0.855(L)
8	454	298	1.520(L)
10	567	239	2.374(L)
12	680	199	3.419(L)
15	850	159	5.342(L)
18	1020	133	7.693(L)
21	1190	114	10.471(L)
24	1360	100	13.676(L)
27	1530	88	17.309(L)
30	1700	80	21.369(L)
33	1870	72	25.856(L)

The test may be stopped if no pressure loss has occurred during the first 25% of the calculated testing time. If any pressure loss or leakage has occurred during the first 25% of the testing period, then the test must continue for the entire test duration as outlined above or until failure. Lines with a 27-inch average inside diameter and larger may be air tested at each joint. Pipe greater than 36 inch diameter must be tested for leakage at each joint. If the joint test is used, a visual inspection of the joint must be performed immediately after testing. The pipe is to be pressurized to 3.5 psi greater than the pressure exerted by groundwater above the pipe. Once the pressure has stabilized, the minimum time allowable for the pressure to drop from 3.5 pounds per square inch gauge to 2.5 pounds per square inch gauge must be 10 seconds.

    C. Deflection Testing. Deflection tests must be performed on all flexible pipes. For pipelines with inside diameters less than 27 inches, a rigid mandrel must be used to measure deflection. For pipelines with an inside diameter of 27 inches and greater, a method approved by the executive director must be used to test for vertical deflections. Other methods must provide a precision of ± two tenths of one percent (0.2 %) deflection. The test must be conducted after the final backfill has been in place at least 30 days. No pipe will exceed a deflection of five percent. If a pipe should fail to pass the deflection test, the problem must be corrected and a second test must be conducted after the final backfill has been in place an additional 30 days. The tests must be performed without mechanical pulling devices. The design engineer should recognize that this is a maximum deflection criterion for all pipes and a deflection test less than five percent may be more appropriate for specific types and sizes of pipe. Upon completion of construction, the design engineer or other Texas Licensed Professional Engineer appointed by the owner must certify, to the Executive Director, that the entire installation has passed the deflection test. This certification may be made in conjunction with the notice of completion required in §317.1(e)(1) of this title (relating to General Provisions). This certification must be provided for the Commission to consider the requirements of the approval to have been met.

    (i) The rigid mandrel shall have an outside diameter (O.D.) equal to 95% of the inside diameter (I.D.) of the pipe. The inside diameter of the pipe, for the purpose of determining the outside diameter of the mandrel, shall be the average outside diameter minus two minimum wall thicknesses for O.D. controlled pipe and the average inside diameter for I.D. controlled pipe, all dimensions shall be per appropriate standard. Statistical or other "tolerance packages" shall not be considered in mandrel sizing.

    (ii) The rigid mandrel shall be constructed of a metal or a rigid plastic material that can withstand 200 psi without being deformed. The mandrel shall have nine or more "runners" or "legs" as long as the total number of legs is an odd number. The barrel section of the mandrel shall have a length of at least 75% of the inside diameter of the pipe. A proving ring shall be provided and used for each size mandrel in use.

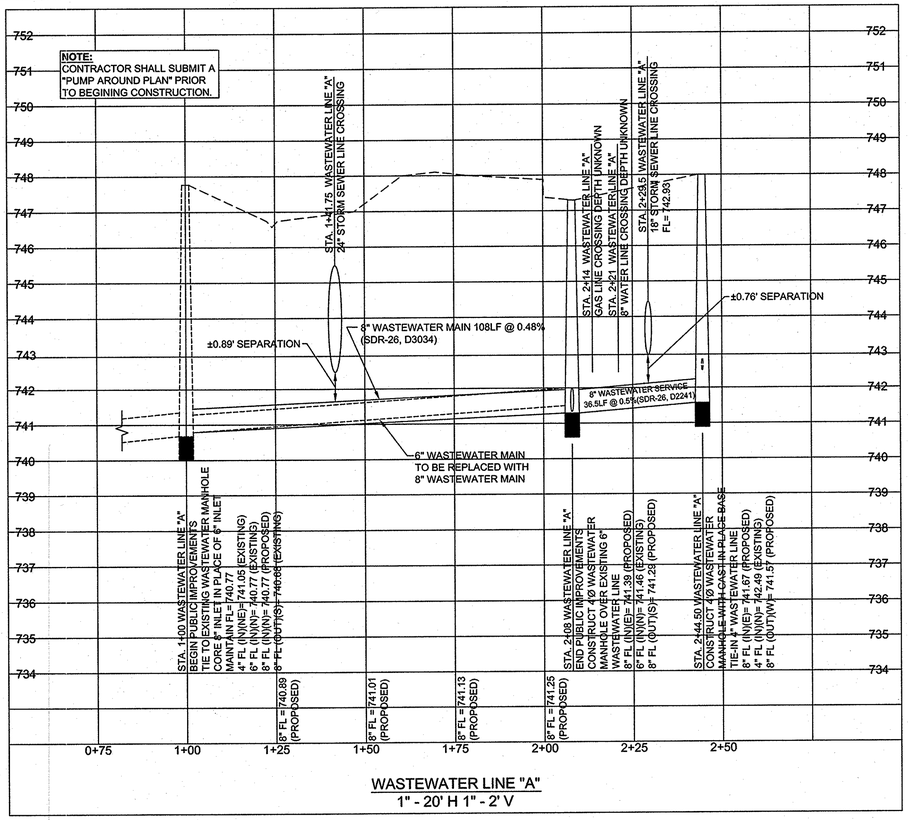
    (iii) Adjustable or flexible mandrels are prohibited. A television inspection is not a substitute for the deflection test. A deflectometer may be approved for use on a case by case basis. Mandrels with removable legs or runners may be accepted on a case by case basis.

17. All manholes must be tested to meet or exceed the requirements of 30 TAC §317.2(c)(5)(H).

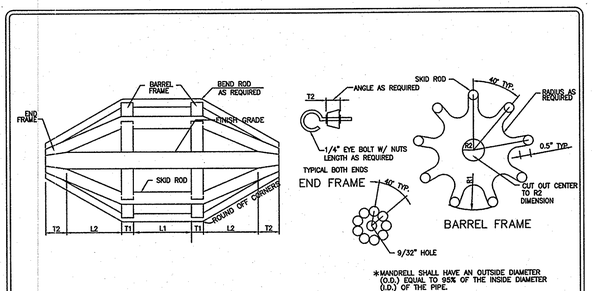
18. All private service laterals must be inspected and certified in accordance with 30 TAC §213.5(c)(3)(I). After installation of and, prior to covering and connecting a private service lateral to an existing organized sewage collection system, a Texas Licensed Professional Engineer, Texas Registered Sanitarian, or appropriate city inspector must visually inspect the private service lateral and the connection to the sewage collection system, and certify that it is constructed in conformity with the applicable provisions of this section. The owner of the collection system must maintain such certifications for five years and forward copies to the appropriate regional office upon request. Connections may only be made to an approved sewage collection system.

THESE GENERAL CONSTRUCTION NOTES MUST BE INCLUDED ON THE CONSTRUCTION PLANS PROVIDED TO THE CONTRACTOR AND ALL SUBCONTRACTORS.

TCEQ-0596: 10/01/2004



WASTEWATER LINE "A"
1" - 20' H 1" - 2' V



*MANDRELL SHALL HAVE AN OUTSIDE DIAMETER (O.D.) EQUAL TO 95% OF THE INSIDE DIAMETER (I.D.) OF THE PIPE.

SIZE	TYPE	O.D. AVERAGE	MIN. WALL THICKNESS	R1	R2	L1	L2	T1	T2	ROD DIAMETER
6"	D3034 SDR35	6.275	0.180	2.810	0.750	4.500	6.000	0.375	1.000	0.375
6"	D3034 SDR26	6.275	0.241	2.750	1.750	4.500	6.000	0.375	1.000	0.375
6"	D2241 SDR26	6.625	0.255	2.900	0.750	4.500	6.000	0.375	1.000	0.375
8"	D3034 SDR35	8.400	0.241	3.760	1.250	6.000	6.000	0.375	1.000	0.375
8"	D3034 SDR26	8.400	0.323	3.680	1.250	6.000	6.000	0.375	1.000	0.375
8"	D2241 SDR26	8.625	0.331	3.780	1.250	6.000	6.000	0.375	1.000	0.375
10"	D3034 SDR35	10.50	0.300	4.700	1.500	7.500	6.000	0.375	1.000	0.375
10"	D3034 SDR26	10.50	0.404	4.600	1.500	7.500	6.000	0.375	1.000	0.375
10"	D2241 SDR26	10.75	0.413	4.710	1.500	7.500	6.000	0.375	1.000	0.375
12"	D3034 SDR35	12.50	0.357	5.600	1.750	9.000	6.000	0.375	1.000	0.375
12"	D3034 SDR26	12.50	0.481	5.480	1.750	9.000	6.000	0.375	1.000	0.375
12"	D2241 SDR26	12.75	0.490	5.590	1.750	9.000	6.000	0.375	1.000	0.375
15"	D3034 SDR35	15.30	0.437	6.850	2.000	11.250	6.000	0.375	1.000	0.375
15"	D3034 SDR26	15.30	0.588	6.710	2.000	11.250	6.000	0.375	1.000	0.375
16"	D2241 SDR26	16.0	0.615	7.010	2.000	11.250	6.000	0.375	1.000	0.375
18"	F679 T-1	18.701	0.536	8.060	2.500	13.500	9.000	0.500	1.500	0.500
21"	F679 T-1	22.047	0.632	9.500	3.000	150.750	9.000	0.500	1.500	0.500
24"	F679 T-1	24.803	0.711	10.680	3.500	18.000	9.000	0.500	1.500	0.500
27"	F679 T-1	27.953	0.801	12.030	4.000	20.25	9.000	0.500	1.500	0.500

NOTES:
1. MANDREL SHALL BE CONSTRUCTED OF METAL OR A RIGID PLASTIC MATERIAL THAT CAN WITHSTAND 200PSI WITHOUT BEING DEFORMED.
2. AFTER WELDING IS COMPLETED, TRUE THE OUTSIDE DIAMETER DIMENSION FOR THE FULL LENGTH OF "B" TO 0.010".
3. A PROVING RING SHALL BE PROVIDED AND USED FOR EACH SIZE MANDREL IN USE.
4. MANDREL OD MUST BE EQUAL TO 95% OF THE ID OF THE PIPE
5. MANDREL BARREL LENGTH 'B' MUST BE EQUAL TO 75% OF THE ID OF THE PIPE
6. ADJUSTABLE MANDREL IS NOT ACCEPTABLE.

TYPICAL MANDREL DETAILS
NOT TO SCALE

AS BUILT DRAWING

This record drawing has been prepared, in part, based upon information furnished by others. While this information is believed to be reliable, BAKER-AICKLEN cannot assure its accuracy and is not responsible for the accuracy of any/this record drawing or for any errors or omissions which may have been incorporated into it as a result. Those relying on this record document are invited to obtain independent verification of its accuracy before applying it to any specific purpose.

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5271 W. LIBERTY AVE.
ROUND ROCK, TX 78664
(512) 244-9633

No.	DATE	REVISIONS	RECOM'D

SHEET TITLE: DETAILS SHEET 4 OF 6

DESIGNED: JMP DWG. NAME: jma details.dgn DATE: Apr 27, 2009
DRAWN: BH LAYOUT: ...ial DETAILS & G VIEW:
APPROVED: JMP LAYER STATE: ...ial DETAILS & G

CLIENT: Y.M.C.A. OF GREATER WILLIAMSON COUNTY

PROJECT: ROUND ROCK Y.M.C.A. PARKING LOT EXPANSION (PHASE 2)

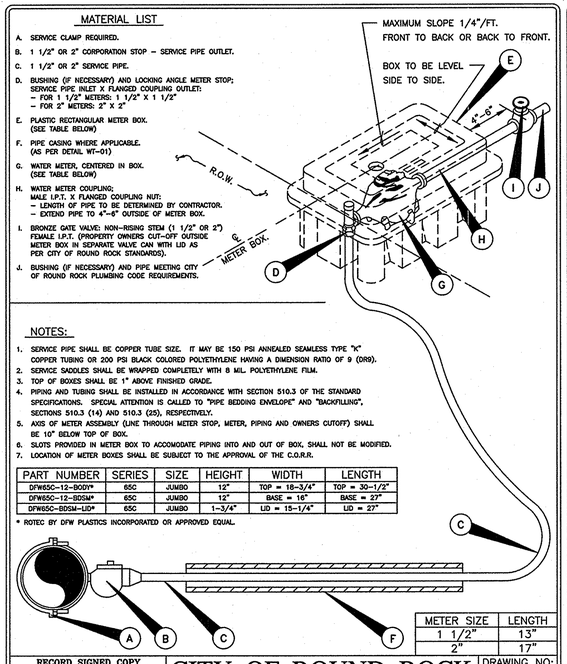
PROJECT No. 0129-3-010-21

SHEET No. C-18
18 OF 24

IMAGES: * CITY OF ROUND ROCK LOGO.jpg
XREFS: * 24X36vertical_YMCA.dwg * JAKSeal.dwg * WW_PROFILE.dwg

MATERIAL LIST

A. SERVICE CLAMP REQUIRED.
B. 1 1/2" OR 2" CORPORATION STOP – SERVICE PIPE OUTLET.
C. 1 1/2" OR 2" SERVICE PIPE.
D. BUSHING (IF NECESSARY) AND LOCKING ANGLE METER STOP; SERVICE PIPE INLET X FLANGED COUPLING OUTLET:
   – FOR 1 1/2" METERS: 1 1/2" X 1 1/2"
   – FOR 2" METERS: 2" X 2"
E. PLASTIC RECTANGULAR METER BOX. (SEE TABLE BELOW)
F. PIPE CASING WHERE APPLICABLE. (AS PER DETAIL WT-01)
G. WATER METER, CENTERED IN BOX. (SEE TABLE BELOW)
H. WATER METER COUPLING; MALE I.P.T. X FLANGED COUPLING NUT;
   – LENGTH OF PIPE TO BE DETERMINED BY CONTRACTOR.
   – EXTEND PIPE TO 4"–6" OUTSIDE OF METER BOX.
I. BRONZE GATE VALVE: NON-RISING STEM (1 1/2" OR 2") FEMALE I.P.T. (PROPERTY OWNERS CUT-OFF OUTSIDE METER BOX IN SEPARATE VALVE CAN WITH LID AS PER CITY OF ROUND ROCK STANDARDS).
J. BUSHING (IF NECESSARY) AND PIPE MEETING CITY OF ROUND ROCK PLUMBING CODE REQUIREMENTS.



NOTES:

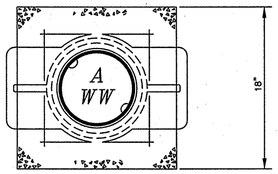
1. SERVICE PIPE SHALL BE COPPER TUBE SIZE. IT MAY BE 150 PSI ANNEALED SEAMLESS TYPE "K" COPPER TUBING OR 200 PSI BLACK COLORED POLYETHYLENE HAVING A DIMENSION RATIO OF 9 (DR9).
2. SERVICE SADDLES SHALL BE WRAPPED COMPLETELY WITH 8 MIL. POLYETHYLENE FILM.
3. TOP OF BOXES SHALL BE 1" ABOVE FINISHED GRADE.
4. PIPING AND TUBING SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 510.3 OF THE STANDARD SPECIFICATIONS. SPECIAL ATTENTION IS CALLED TO "PIPE BEDDING ENVELOPE" AND "BACKFILLING", SECTIONS 510.3 (14) AND 510.3 (25), RESPECTIVELY.
5. AXIS OF METER ASSEMBLY (LINE THROUGH METER STOP, METER, PIPING AND OWNERS CUTOFF) SHALL BE 10" BELOW TOP OF BOX.
6. SLOTS PROVIDED IN METER BOX TO ACCOMODATE PIPING INTO AND OUT OF BOX, SHALL NOT BE MODIFIED.
7. LOCATION OF METER BOXES SHALL BE SUBJECT TO THE APPROVAL OF THE C.O.R.R.

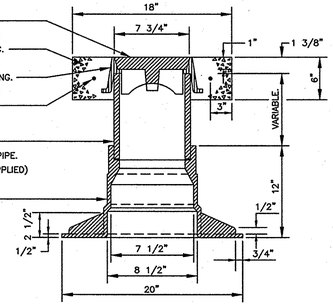
PART NUMBER	SERIES	SIZE	HEIGHT	WIDTH	LENGTH
DFW65C-12-BODY*	65C	JUMBO	12"	TOP = 18-3/4"	TOP = 30-1/2"
DFW65C-12-BDSM*	65C	JUMBO	12"	BASE = 18"	BASE = 27"
DFW65C-BDSM-LID*	65C	JUMBO	1-3/4"	LID = 15-1/4"	LID = 27"

* ROTEC BY DFW PLASTICS INCORPORATED OR APPROVED EQUAL.

METER SIZE	LENGTH
1 1/2"	13"
2"	17"

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: WT-03
APPROVED 07-11-06 DATE	SINGLE 1 1/2" OR 2" WATER METER DETAIL	ROUND ROCK, TEXAS PURPOSE POWERS PROSPERITY
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		





NOTES:

1. NUMBERED CASTINGS STANDARDS SHOWN IN PARENTHESES ARE REFERENCES TO THE CITY OF AUSTIN STANDARDS CRITERIA MANUAL.
2. DELETE CONCRETE & REBAR WHEN VALVE IS WITHIN PAVED STREET.

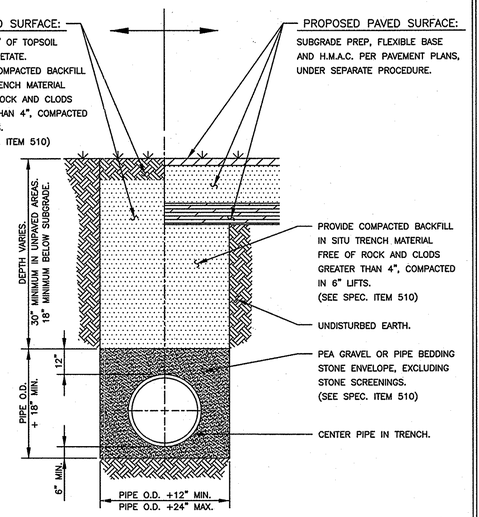
RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: WT-06
APPROVED 02-10-06 DATE	VALVE BOX ASSEMBLY DETAIL	ROUND ROCK, TEXAS PURPOSE POWERS PROSPERITY
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		

NON–PAVED SURFACE:

(A) PROVIDE 4" OF TOPSOIL AND REVEGETATE.
(B) PROVIDE COMPACTED BACKFILL IN SITU TRENCH MATERIAL FREE OF ROCK AND CLODS GREATER THAN 4", COMPACTED IN 6" LIFTS. (SEE SPEC. ITEM 510)

PROPOSED PAVED SURFACE:

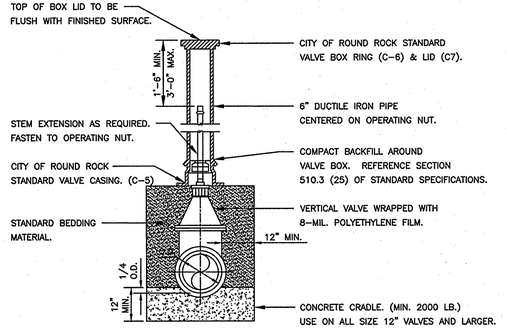
SUBGRADE PREP, FLEXIBLE BASE AND H.M.A.C. PER PAVEMENT PLANS, UNDER SEPARATE PROCEDURE.



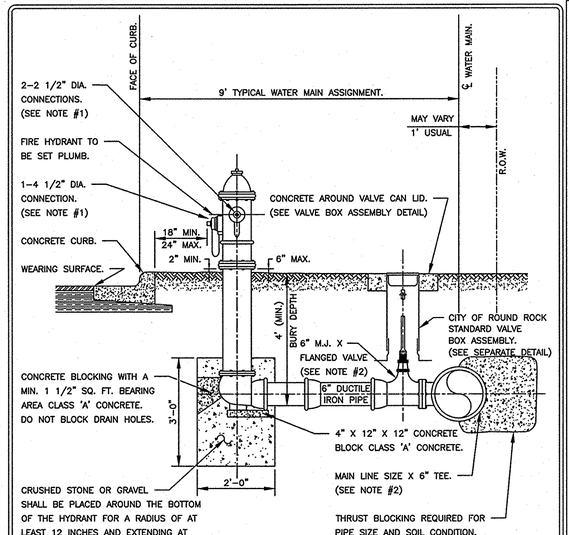
NOTE:

ALL TRENCHING AND TRENCH SAFETY SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: WT-08
APPROVED 08-25-04 DATE	WATERLINE BEDDING AND SURFACE REPAIR DETAIL (NON–PAVED & PROPOSED PAVED SURFACES)	ROUND ROCK, TEXAS PURPOSE POWERS PROSPERITY
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		



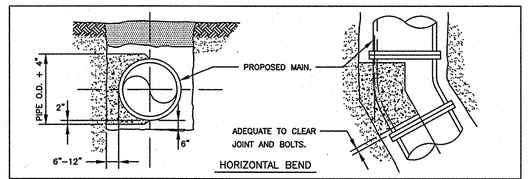
RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: WT–11
APPROVED 08-21-03 DATE	VERTICAL VALVE INSTALLATION DETAIL	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		



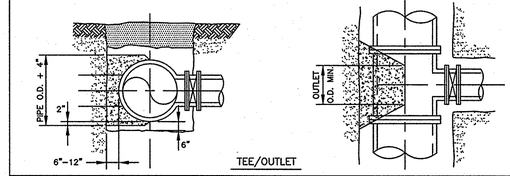
NOTES:

1. THREADS ON OUTLET NOZZLES SHALL BE COMPATIBLE WITH CITY OF ROUND ROCK FIRE DEPARTMENT EQUIPMENT.
2. TEE MAY HAVE FLANGED OUTLET FOR M.J. X FLANGED GATE VALVE OR ANCHOR (SWIVEL) TEE MAY BE USED WITH M.J. X M.J. GATE VALVE.

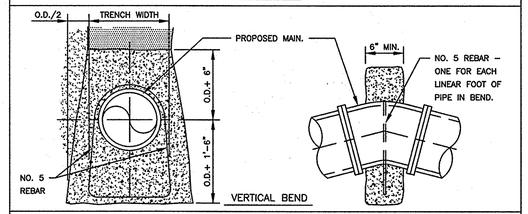
RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: WT–05
APPROVED 05–04–05 DATE	FIRE HYDRANT ASSEMBLY DETAIL	ROUND ROCK, TEXAS PURPOSE POWERS PROSPERITY
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		



HORIZONTAL BEND



TEE/OUTLET



VERTICAL BEND

THRUST BLOCK DESIGN AS FOLLOWS:

A. PRESSURE OF 150 P.S.I. (ACTUAL IF HIGHER) + 50% SURGE ALLOWANCE
B. MAXIMUM SOIL BEARING:

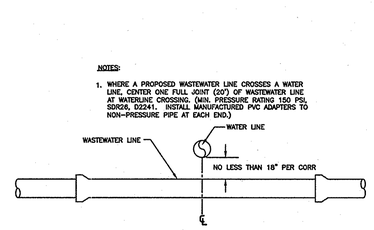
SOIL TYPE	PRESSURE
LIMESTONE	4000 LBS./SQ. FT.
UNDISTURBED SOIL, CALICHE	2000 LBS./SQ. FT.
LOOSE OR SPONGY SOIL	1500 LBS./SQ. FT.

City of Round Rock	
Scale: N.T.S.	Drawn by: J.D.V.
Approved / Date	DETAIL NO.
THRUST BLOCK DETAIL	

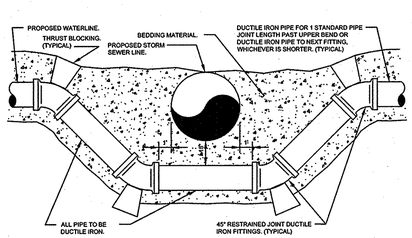
THRUSTBLK.dwg

NOTES:

1. WHERE A PROPOSED WASTEWATER LINE CROSSES A WATER LINE, CENTER ONE FULL JOINT (20') OF WASTEWATER LINE AT WATERLINE CROSSING. (MIN. PRESSURE RATING 150 PSI, SDR26, D2241. INSTALL MANUFACTURED PVC ADAPTERS TO NON–PRESSURE PIPE AT EACH END.)



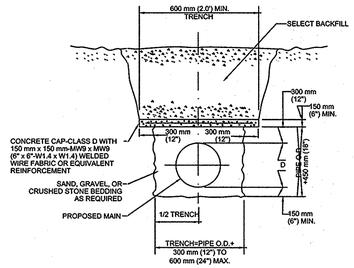
LINE CROSSING DETAIL
NTS



NOTES:

1. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE WRAPPED WITH MINIMUM 8 MIL POLYETHYLENE (BLACK POLY) AND OPEN ENDS/SEAMS SEALED WITH DUCT TAPE.
2. ALL FITTINGS SHALL BE BLOCKED WITH CONCRETE BLOCKING.

WATERLINE AND STORMSEWER LINE CROSSING (TYPE 1)
NTS



CONCRETE TRENCH CAP
NTS

AS-BUILT DRAWING

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BAKER-AICKLEN & ASSOCIATES, INC.
Engineers • Surveyors • GIS • Planning
507 W. LIBERTY AVE.
ROUND ROCK, TX 78664
(512) 244-9620

No.	DATE	REVISIONS	RECOM'D

SHEET TITLE: DETAILS SHEET 5 OF 6

DESIGNED: AAP | DWG NAME: ymca_details.dwg | DATE: Apr 27, 2009
DRAWN: JSI | LAST DETAILS (3) | DETAILS (3) | VIEW:
APPROVED: AAP | LAYER STATE:

CLIENT: Y.M.C.A. OF GREATER WILLIAMSON COUNTY

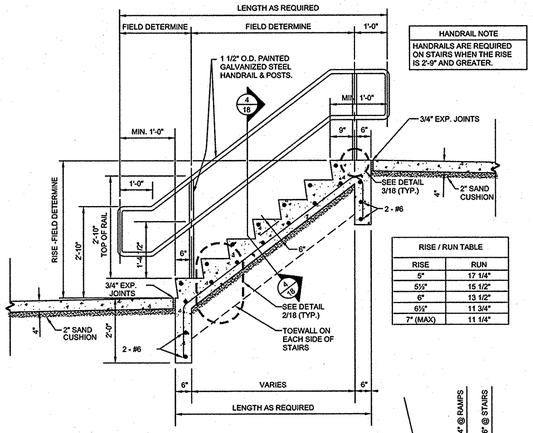
PROJECT: ROUND ROCK Y.M.C.A. PARKING LOT EXPANSION (PHASE 2)

PROJECT No. 0129-3-010-21

SHEET No. C-19

19 OF 24

IMAGES: • CITY OF ROUND ROCK LOGO.jpg
XREFS: • 24X36mvertical_YMCA.dwg • 3ceSeal.dwg • WW_PROFILE.dwg

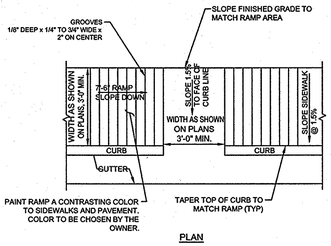


STAIR DETAIL 1/16
1/2" = 1'-0"

HANDRAIL NOTE

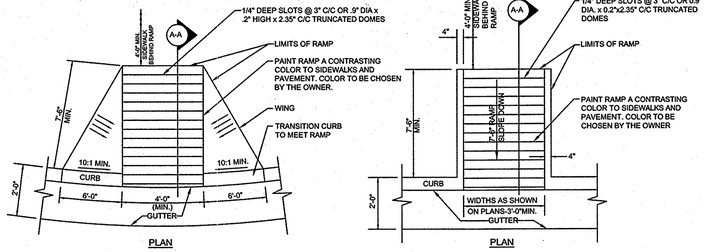
HANDRAILS ARE REQUIRED ON STAIRS WHEN THE RISE IS 2'-0" AND GREATER.

RISE / RUN TABLE	
RISE	RUN
5"	17 1/4"
5½"	15 1/2"
6"	13 1/2"
6½"	11 3/4"
7" (MAX)	11 1/4"



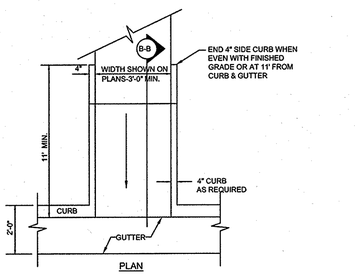
PLAN

LAYDOWN CURB RAMP
PRIVATE PROPERTY 9/16
N.T.S.

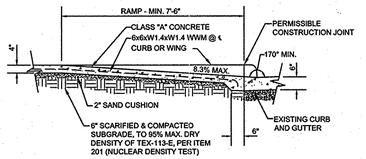


PLAN

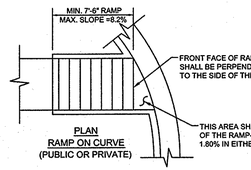
PLAN



PLAN

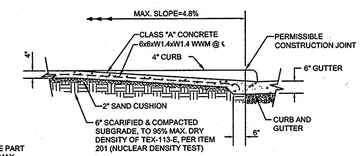


SECTION A-A



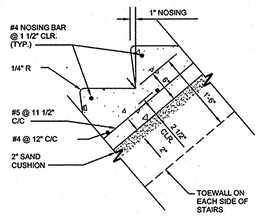
PLAN
RAMP ON CURVE
(PUBLIC OR PRIVATE)

CURB RAMP DETAIL
PRIVATE PROPERTY 9/16
N.T.S.

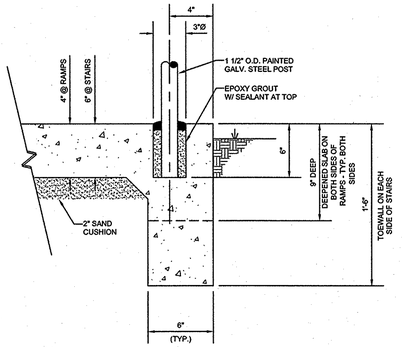


SECTION B-B

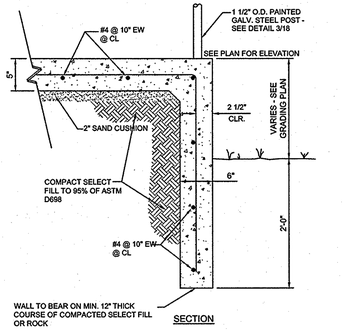
SIDEWALK SLOPING TO PAVEMENT
PRIVATE PROPERTY 10/16
N.T.S.



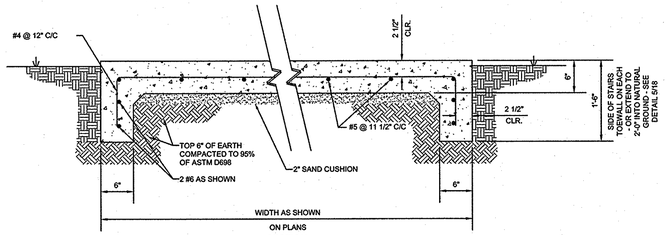
STEP DETAIL 2/16
1" = 1'-0"



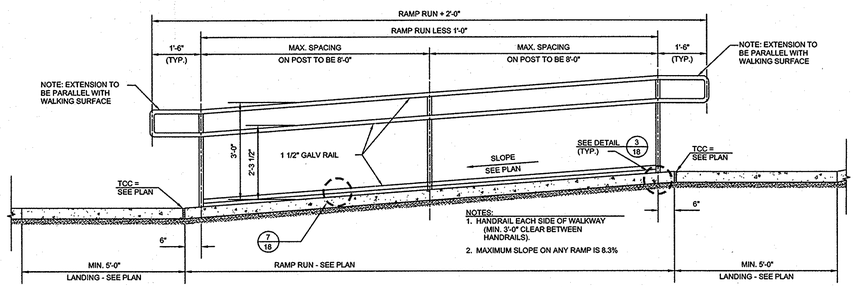
DETAIL 3/16
1" = 1'-0"



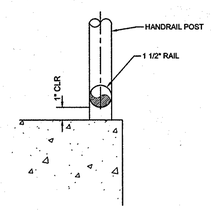
RAMP/ STAIRWAY WALL CONSTRUCTION DETAIL 5/16
1" = 1'-0"

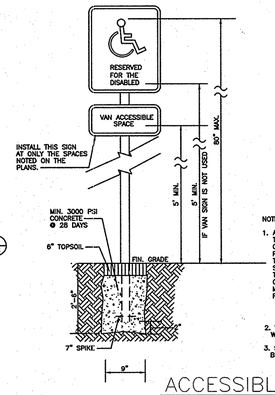


STAIR TOEWALL DETAIL 4/16
1" = 1'-0"



SIDEWALK RAMP DETAIL 6/16
N.T.S.





NOTES:
1. ACCESSIBLE PARKING SPACES SHALL BE IDENTIFIED AND RESERVED FOR THE THE DISABLED BY VERTICALLY MOUNTED SIGNS INCORPORATING THE SYMBOL OF ACCESSIBILITY AND PLACED SO THAT THEY WILL NOT BE OBSCURED BY PARKED VEHICLES. THERE SHALL BE A SUFFICIENT NUMBER OF SIGNS SO THAT EACH SPACE IS CLEARLY IDENTIFIED. THE SIGNAGE SHALL BE SUCH SIZE THAT IS LEGIBLE FROM A DISTANCE THAT WOULD BE REASONABLE FOR THE CONDITION. SIGNS MAY BE MOUNTED ON POSTS, WALL FENCES, COLUMNS, OR OTHER PERMANENT VERTICAL SURFACES. THEY SHOULD BE MOUNTED BETWEEN 48 INCHES AND 80 INCHES ABOVE THE GROUND OR FLOOR SURFACE UNLESS THEY ARE PART OF AN ACCESSIBLE ROUTE.
2. WHERE NOTED ON THE DRAWINGS–SIGN MAY BE MOUNTED ON A WALL–USING SAME DIMENSIONS.
3. SIGNS AND POSTS FOR ACCESSIBLE AND COMPACT PARKING SHALL BE PAINTED GREEN, BACK AND FRONT, WITH WHITE LETTERING.

ACCESSIBLE SIGNAGE
N.T.S.

ADA / TAS DESIGN - GENERAL

THE CONTRACTOR IS FULLY RESPONSIBLE FOR CONSTRUCTION OF SIDEWALKS, LANDINGS, PORCHES, RAMPS & PARKING SPACES THAT MEET ADA/TAS REQUIREMENTS. THE CONTRACTOR SHALL HAVE FULL KNOWLEDGE OF THE DETAILS ON THESE PLANS AND OF ADA/TAS REGULATIONS. SHOULD THE CONTRACTOR FIND AN ELEVATION OR CONDITION THAT IS DIFFERENT THAN SHOWN ON THE PLANS, IT IS THE CONTRACTORS FINAL RESPONSIBILITY TO CONTACT THE CIVIL DESIGNER AND WORK OUT A DESIGN THAT MEETS ADA & TAS, PRIOR TO CONSTRUCTION, NOT AFTER THE WORK IS COMPLETED.

ADA SIDEWALK RAMP SLOPES

DETERMINE THE LENGTH OF A RAMP BY CHECKING THE ELEVATIONS AT THE TOP AND BOTTOM ELEVATION OF THE RAMPS. THE DESIGN SHALL BE FOR A RUNNING SLOPE OF 8.3%.

ADA CURB RAMP SLOPES

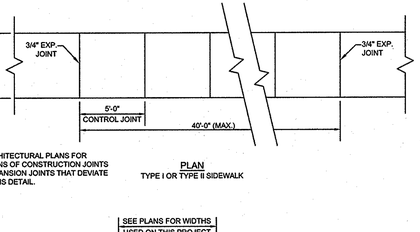
THE DESIGN SHALL BE FOR A RAMP SLOPE OF 8.3%. IT IS IMPOSSIBLE TO HAVE A 6' LONG RAMP WITHOUT THE TOP AND BOTTOM OF RAMP BEING NO MORE THAN 6" DIFFERENCE IN ELEVATION. DETERMINE THE LENGTH BY CHECKING THE TOP AND BOTTOM ELEVATIONS OF THE RAMP.

ADA HANDICAP PARKING SPACES

NO SLOPE WITHIN A PARKING SPACE OR A STRIPED AISLE SHALL EXCEED 2% IN EITHER DIRECTION.

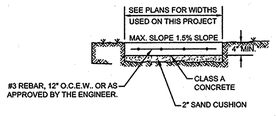
ADA CROSSWALKS, SIDEWALKS AND ACCESSIBILE ROUTES

NO CROSS SLOPE SHALL EXCEED 2%.
NO RUNNING SLOPE SHALL EXCEED 5%.



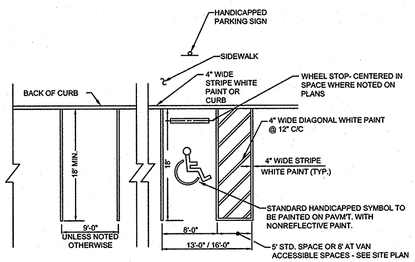
NOTE:
SEE ARCHITECTURAL PLANS FOR LOCATIONS OF CONSTRUCTION JOINTS AND EXPANSION JOINTS THAT DEVIATE FROM THIS DETAIL.

PLAN
TYPE I OR TYPE II SIDEWALK



SECTION

CONCRETE SIDEWALK DETAIL
PRIVATE PROPERTY 11/16
N.T.S.



NOTES:
1. DRIVE AISLE IS MIN. 26' WIDE
2. RAMP ACCESS AND SURFACE SLOPES SHALL COMPLY WITH ADA/TAS REQUIREMENTS.
3. EACH HANDICAPPED PARKING SPACE SHALL BE SIGNED IN ACCORDANCE WITH ADA REQUIREMENTS.

TYPICAL PARKING SPACE LAYOUT 12/16
N.T.S.

AS-BUILT DRAWING

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DETAILS NOT TO SCALE

BAKER-AICKLEN & ASSOCIATES, INC.
Engineers • Surveyors • GIS • Planning
527 W. LIBERTY AVE.
ROUND ROCK, TX. 78664
(512) 244-9620

No.	DATE	REVISIONS	RECOM'D

SHEET TITLE: DETAILS SHEET 6 OF 6

DESIGNED: AAP
DRAWN: SBJ
APPROVED: AAP
DWG. NAME: ms_details.dwg
LAYOUT: accessibility
LAYER STATE: accessibility
DATE: Apr 27, 2009
VIEW:

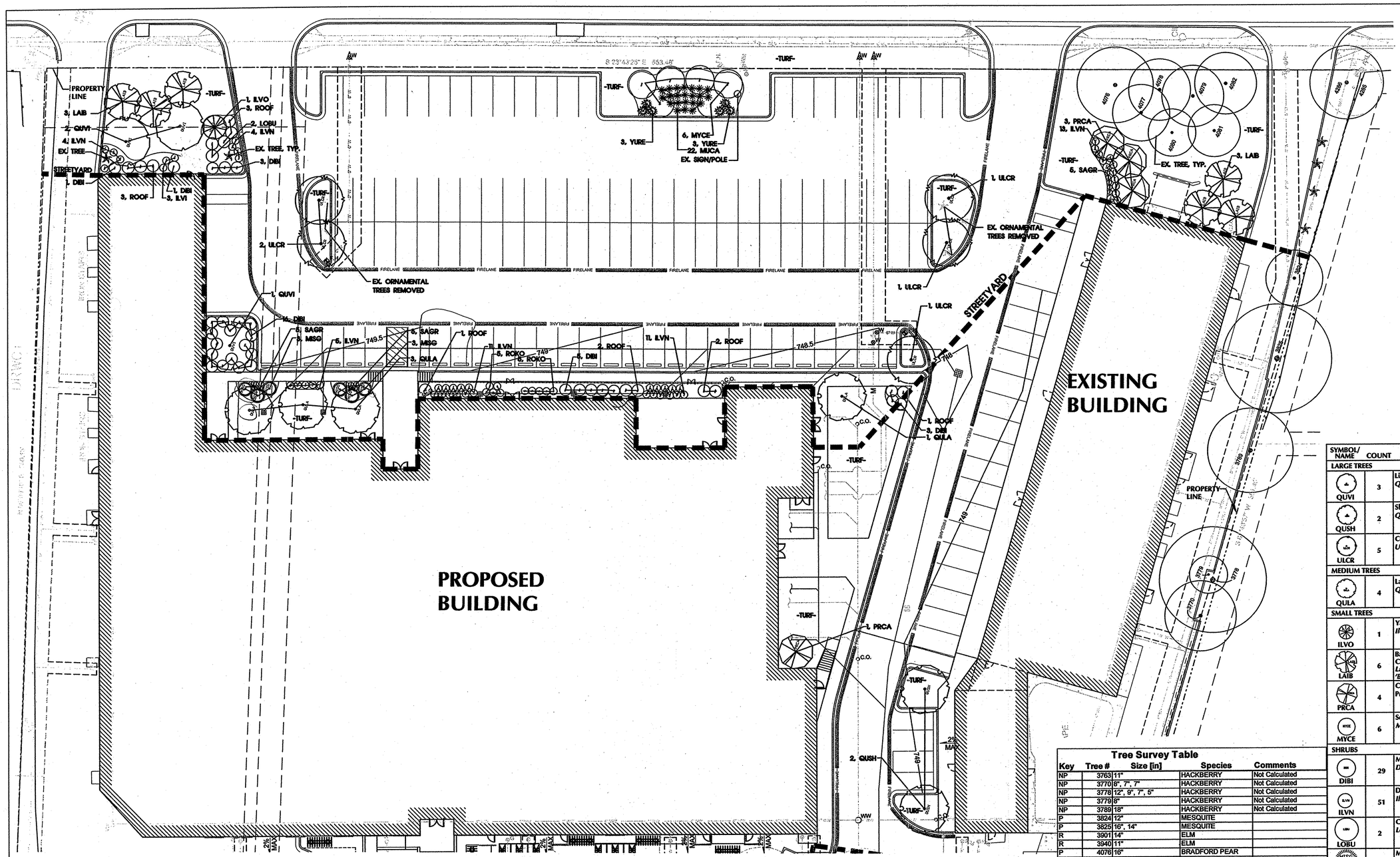
CLIENT: Y.M.C.A. OF GREATER WILLIAMSON COUNTY

PROJECT: ROUND ROCK Y.M.C.A. PARKING LOT EXPANSION (PHASE 2)

PROJECT No. 0129-3-010-21

SHEET No. C-20
20 OF 24

IMAGES: * CITY OF ROUND ROCK LOGO.jpg
XREFS: * 24X36revtitle3_YMCA.dwg * IceSeal.dwg * WW_PROFILE.dwg



SYMBOL/ NAME	COUNT	COMMON NAME / *BOTANICAL NAME*	SIZE/ SPEC'S
LARGE TREES			
QUVI	3	Live Oak *Quercus virginianna*	3" caliper STANDARD H-12' W-9'
QUSH	2	Shumard Oak *Quercus shumardii*	3" caliper STANDARD H-12' W-8'
ULCR	5	Cedar Elm *Ulmus crassifolia*	3" caliper STANDARD H-12' W-7'
MEDIUM TREES			
QULA	4	Lacey Oak *Quercus laceyi*	2" caliper MULTI TRUNKED H-10' W-6'
SMALL TREES			
ILVO	1	Yaupon Holly *Ilex vomitoria*	1" caliper MULTI TRUNKED H-6' W-4'
LAIB	6	Bashams Party Pink Crapemyrtle *Lagerstroemia indica 'Bashams'*	1" caliper MULTI TRUNKED H-10' W-8'
PRCA	4	Cherry Laurel *Prunus carolina*	1" caliper H-6'
MYCE	6	Southern Wax Myrtle *Myrica cerifera*	1" caliper MULTI TRUNKED H-6' W-4'
SHRUBS			
DIBI	29	Moraea Iris *Dietes (Moraea) bicolor*	5 gal. FULL
ILVN	51	Dwarf Yaupon Holly *Ilex vomitoria 'nana'*	5 gal. FULL
LOBU	2	Chinese Fringeflower *Loropetalum chinense*	5 gal. FULL
MISG	6	Maidengrass *Miscanthus sinensis 'Gracillimus'*	5 gal. FULL
MUCA	22	Gulf Muhly *Muhlenbergia capillaris*	5 gal. FULL
ROOF	12	Rosemary *Rosmarinus officinalis*	5 gal. FULL
ROKO	10	Knock Out Rose *Rosa x 'Knockout'*	5 gal. FULL
SAGR	15	Autumn Sage 'Big Pink' *Salvia 'gregii'*	5 gal. FULL
YURE	6	Softleaf Yucca *Yucca recurvifolora*	5 gal. FULL

Tree Survey Table

Key	Tree #	Size [in]	Species	Comments
NP	3763	11"	HACKBERRY	Not Calculated
NP	3770	8", 7", 7"	HACKBERRY	Not Calculated
NP	3778	12", 9", 7", 5"	HACKBERRY	Not Calculated
NP	3779	8"	HACKBERRY	Not Calculated
NP	3789	18"	HACKBERRY	Not Calculated
P	3824	12"	MESQUITE	
P	3825	16", 14"	MESQUITE	
R	3901	14"	ELM	
R	3940	11"	ELM	
P	4076	16"	BRADFORD PEAR	
P	4077	12"	BRADFORD PEAR	
P	4078	13"	BRADFORD PEAR	
P	4079	13"	BRADFORD PEAR	
P	4080	10"	BRADFORD PEAR	
P	4081	11"	BRADFORD PEAR	
P	4082	13"	BRADFORD PEAR	
NP	4285	9", 6"	HACKBERRY	Not Calculated
P	4288	11", 9"	ELM	

LEGEND:		
	Protected	P
	Removal of Protected Trees	R
	Removed due to death or disease	R-D
	Not Protected Species	NP
	Not Protected, Credit	NP-C

Total inches protected trees within Construction Area:	163.5
Total inches that may be removed without replacement:	49.05
Trees under 20 inches, total inches removed:	25
inches subject to replacement: (1:1 Ratio)	25
Trees 20 + inches, total inches removed:	0
inches subject to replacement: (3:1 Ratio)	0
Total tree inches credited:	0
Total inches to be replaced:	25

***Less Than 30% of the Total Protected Inches are being removed. Therefore, NO TREE MITIGATION IS REQUIRED.**

LEGEND

3006 TREE TO REMAIN

3006 TREE TO BE REMOVED

NOTE:
1. FIVE ADDITIONAL LARGE/MEDIUM TREES WERE PLANTED IN PLACE OF THE SIX REQUIRED SMALL TREES.
2. ALL NEW PLANTING SHALL BE IRRIGATED. IRRIGATION PLANS SHALL BE SUBMITTED WITHIN 45 DAYS OF THE BUILDING PERMIT BEING ISSUED.

AREA	QUANTITY	REQUIRED	PLANTED
DETENTION POND	N/A	N/A	N/A
PERIMETER PARKING	552 L.F.	(11) LARGE/MED TREE (20) SMALL TREES (138) 5 GAL SHRUBS	(14) LARGE/MED TREE (17) SMALL TREES (153) 5 GAL SHRUBS
STREET YARD	TOTAL: 61,920 S.F.	30 REQUIRED, EXISTING CREDITS 22 = (8)	(12) LARGE/MED TREES
BUFFER	ADJACENT LAND USES ARE COMPATIBLE. EXISTING TREES TO REMAIN UNDISTURBED.	N/A	NA

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REGISTERED LANDSCAPE ARCHITECT PATRICK M. SMITH 7791 STATE OF TEXAS 10-22-07

ROUND ROCK YMCA
ADDITIONS AND RENOVATIONS PHASE II
ROUND ROCK, TEXAS

Drawing File Name
T:\2007 Jobs\070409-WTRD\Cadfiles\LANDSCAPE ARCHITECTURE\Sheets Phase 2\LP-1.DWG

Issued:
1. 08/13/2007
2. 09/10/2007 Response to Comments
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5.

Revisions:
1.
2.
3.
4.
5.

Issue Date: 08/13/07

Drawn By: CC, RM Reviewed By: PS

Project No.
070409 - WTRD

Sheet No.
LP 1

Landscape Notes Reference: City of Round RockTree Technical Manual: Standards and Specifications; January 13, 2005; Section 3; Tree Removal, Replacement Planting & Maintenance Standards.

3.1. INTRODUCTION
A protected tree may not be removed without City review and approval, except in certain emergencies. The purpose of City review is to verify that the removal is allowed under the Ordinance, and to prevent unnecessary tree removal. This section discusses conditions for tree removal, replacement of protected trees, planting and pruning of replacement trees, and maintenance.

3.2. TREE REMOVAL

3.2.1. Allowable removal-Tree removal is approved as part of the subdivision and site plan process, or in the case of individual trees, through the tree removal permit process. These three processes are defined in the Ordinance. A tree removal permit must be granted, or a site or subdivision plan with a tree survey and replacement plan approved, before removing a protected tree regardless of the condition of the tree.
3.2.2. Protected Tree Removal Permit Application-Tree removal applications are available at the City of Round Rock Forestry Division. The form is required ONLY when a request for tree removal originates with an owner of fully developed land, including a single family house under construction. All other requests for removal of protected trees take place during the subdivision and site development processes as defined in the Ordinance.
The form can be found in the Appendix. Additional information may be required by the

Forestry Manager. An application for a Protected Tree Removal Permit shall be processed within fifteen (15) working days from the date the application is received.

3.3. TREE REPLACEMENT PLAN

Replacement requirements are defined in the Ordinance, and are limited to protected trees, excluding monarch trees. It is important to note that tree replacements during the site plan process will be addressed in both the Tree Protection and Preservation Ordinance and the Landscape Ordinance. Whichever ordinance requires the greatest number of tree replacement inches, that is the ordinance which will be followed in terms of the number of inches to be replaced. The tree requirements of both ordinances will not be added up. See Section 3.1108 of the Ordinance for the types of replacements that are required dependent on lot size and development status.

In selecting trees to be replaced, the types of trees removed will be replaced with the same or similar species. Each replacement tree shall be a minimum of three inches (3") caliper, a minimum of ten feet (10') in height, and a minimum of five (5) feet in spread when planted. Illustration 3-1 shows the type of information required on a tree replacement plan.

The Tree Replacement Plan will include four elements: 1) a table including the common or Latin name; tree size in caliper inches, height, and spread; tree symbols; quantity; and for the purposes of the Chapter 11, Zoning section 11.501, Landscape Development Standards, if the tree is considered large, medium, or small; 2) a tree planting plan (may be combined with the Landscape Plan); 3) proper tree planting details including planting hole, tree planting, staking, and mulching; and, 4) notes on proper tree planting as described in section 3.7 of this Manual.

3.4. TREE PLANTING REQUIREMENTS

3.4.1. Species-The replacement trees shall be the same or similar species unless the Forestry Manager determines that another species would be more suitable for the location or if there is a need to promote diversity of species. Factors to be considered include the long term health of the tree in the location and its compatibility with adjacent uses as well as design considerations.
If the Forestry Manager deems it necessary to plant species other than those that were removed, the following issues will be considered.
Street trees: On any four hundred foot (400') length of street, a single species of tree may be planted. On a length of street greater than four hundred feet (400'), no more than twenty percent (20%) of the total number of trees shall be of one species.

Non-street areas: For plantings in non-street areas (parking lots for example), no more than 20 percent (20%) of the total number of trees planted may be of one species. Exceptions must be approved by the Forestry Manager.

The above restrictions are designed to avoid creating monocultures, or areas of plantings made up of only one species of trees. Monocultures are undesirable because if a certain species is prone to a particular disease or is more susceptible to storm damage or temperature extremes, then it is likely the entire stand could die or be destroyed by a single disease or weather event. Creating planting areas of several species creates a more diverse, and therefore more resistant, urban forest.

Hackberry, Chinese Tallow, Chinaberry, Mulberry, Arizona Ash, Cottonwood, Poplar, Silver Maple, Mimosa, and Willow. shall not be planted along city streets due to damaging surface roots and the possibility of causing damage to sidewalks, utilities and curbs. These trees also have short lifespans, weak wood, and susceptibility to disease and insects.

With the exceptions noted above, other species shall be chosen from the City of Round Rock approved tree list provided in Appendix B of this Manual.

3.4.2. Planting distances/spacing requirements:
a. Minimum distance between newly planted trees
Large sized trees: 40 ft.;
Medium sized trees: 30 ft; and,
Small sized trees: 20 feet
b. Minimum distance from any underground utility, water meter boxes, and fire hydrant: 5 feet
c. Distance from trees to curb, sidewalk, or driveway: Minimum 4 feet.
d. Planting strips should be a minimum of 8 ft wide.
e. Minimum distance from buildings and similar structures:
Large size tree: 30 ft;
Medium size tree: 20 ft; and,
Small size tree: 10 ft.
f. Minimum distance from overhead utility lines. Trees cannot be planted under utility lines. In order to avoid future interference of limbs, planting may take place as follows:

3-3
Large trees: 30 feet from line;
Medium trees: 20 feet from line; and
Small trees: 10 feet from line.

g. From curb line of an intersection: 25 feet, which is subject to visibility triangles.
h. Minimum distance from stop or yield signs: 20 feet.
i. Distance from directional traffic sign: 10 feet.
j. Distance from street lights: 25 feet, or 15 feet if narrow growing species is planted.
Tree selection shall take into consideration ordinance requirements for height clearances as defined in Chapter 9 of the Code. As they grow, trees will need to be pruned to provide pedestrian clearance of at least 8 feet over sidewalks, and vehicular clearance of 14 feet over streets.
Variations from the requirements listed above must be approved by the Forestry Manager.

3.5. TREE STOCK AND MATERIALS

3.5.1. Quality-It is the contractor's responsibility to supply tree stock that meets ANSI 760.1-1996 and any other standards addressed in this Manual.
All trees installed within the City of Round Rock shall conform with the American Standard for Nursery Stock.
Trees shall be sound, healthy, vigorous, and free of plant disease and insect pests or their damage.
Container grown trees shall be grown for at least 8-months in containers in which delivered and shall not be root bound or have girdling roots. The root ball will be moist and the roots will be contained within the container.
Trees shall not have been topped or headed.
The tree will have healthy leaves if it is the time of year for trees to have leaves.
There will be no weeds growing out of the container.
If the tree is multi-stemmed, the stems will not be squeezing against each other or the trunk of the tree.
Trees with broken tops, branches, injured trunks, poor structure, low branching, poor vigor, and apparent poor quality shall be rejected and the Forestry Manager has the right to reject them if they do not meet the quality standards.

3.5.2 Container grown/ball and burlapped trees- From April 1-September 30, only container grown trees will be planted. From October 1-March 31, either container grown or ball and burlapped (B&B) trees may be planted.
Recommendation: Regardless, due to the poor soil and high temperatures in our area, it is recommended that container grown trees be used during all times of the year.

3.5.3 Miscellaneous materials-The following materials shall be used unless otherwise specified:
Tree stakes. Metal T-posts shall be used.
Tree Ties. Tree ties may include one of two types. The first is a 10 gauge wire, cushioned with a rubber hose around the trunk. The wire should not touch the trunk. The second is a plastic chain lock, also called twist brace.

Mulch. All newly planted trees should be mulched with 2-4 inches of organic mulch. Mulch should never be placed against the trunk of a tree. There should be a space of 1-2 inches between the trunk and mulch. Mulch should cover the entire tree planting hole. No volcano mulching is allowed.
Root Control Barriers. Use along all public sidewalks, and indicate on approved plans and drawings.
Tree guards. For trees in turf areas requiring regular mowing and/or weed eating, the tree trunk shall be protected with TreeGuard or equivalent.
Tree grates. Where sidewalk width is less than 8-feet and new trees will be installed in a tree well, metal tree grates may be used and approved by the DRC. Minimum size grates shall be 4' x 4' unless specified otherwise. All tree grates shall be mounted in frames, frames inset into a concrete foundation within the sidewalk or surface material, and shall be flush with the surrounding surface.

3.6. PLANTING SITE PREPARATION

3.6.1. Soil preparation and conditioning-All debris, wood chips, pavement, concrete and rocks over 2-inches in diameter shall be removed from the planting pit to a minimum of 24-inch depth, unless specified otherwise.

3.6.2. Planter pit preparation
Trees in a confined planter pit or sidewalk area: The planting hole shall be excavated to a minimum of 30-inches deep x the width of the exposed area. Scarify the sides of the pit. Soil beneath the rootball shall be compacted to prevent settling.
Trees in all other areas:
a. Mark out a planting area 2 to 3 times wider than the rootball diameter (the wider the better). Loosen this area to about an 8" depth. This will enable your tree to extend a dense mat of tiny roots well out into the soil in the first one to ten weeks in the ground.
b. Excavate the hole's width a minimum of two times the diameter of the container, and deep enough to allow the root ball of the container to rest on firm soil with the top of the root ball even with the grade. Scarify the sides and the bottom of the pit.

3.6.3 Drainage
Adequate drainage must be provided to the surrounding soil for the planting of new trees. If the trees are to be planted in impermeable or infertile soil and water infiltration rates are less than two (2) inches an hour, then one of the following drainage systems or other approved measures must be implemented:

French drain, a minimum of three feet in depth
Drain tiles or lines beneath the trees
Auger six drain holes at the bottom perimeter of the planting pit, at a minimum of four (4) inches in diameter, twenty-four (24) inches deep and filled with medium sand or fine gravel
3.6.4. Aeration tubes for trees
Trees planted in sidewalk planter pits, planting strip, parking islands, or medians shall use 4-inch diameter perforated aeration piping (rigid or flexible), circling the bottom of the planter connected to a 'T' fitting to two riser tubes with grated caps and wrapped with filter fabric. This detail shall be shown on the approved landscape plans.

3.7. PLANTING THE TREE

After the hole has been prepared as described in Section 3.6 above, the tree is ready to be planted.

3.7.1. Container grown tree
Pull the container away from the root ball. Don't pull the tree out by its trunk. Container grown trees often have circling or girdling roots running along the edge of the rootball. If they exist in this area, cut them and spread them apart. Place the root ball in the center of the hole and adjust the tree so it is straight and at the proper level. Make any adjustments prior to filling the hole with dirt.

3.7.2. Ball and burlapped tree
Rest the root ball in the center of the hole, and reshape the hole so the tree will be straight and at the proper level. After adjusting the tree, pull the burlap and any other material away from the sides and top of the root ball. Do not remove the burlap from the bottom. If you adjust or lift the tree after the burlap has been removed you run the risk of damaging the root system.

3.7.3. Backfill soil, amended soil
Backfill with the original soil unless the original soil has been removed or the soil is poor. If soil must be amended, consult with a landscape architect or certified arborist in identifying the most appropriate soil mix.

3.7.4. Filling the hole
Fill until the hole is half full. Flood the hole with a slow hose or tamp gently with your foot to firm the soil. Repeat until the hole is full. Do not press too firmly-only firm enough to hold the tree upright. Backfilling with soil and water or gently tamping will remove large air pockets.

3.7.5. Constructing a berm or dam
Construct a small dam or berm three (3) feet in diameter around the tree. The berm should be approximately three (3) inches high.

3.7.6. Mulching
Cover the entire loosened area of soil with 2 to 4 inches of mulch composed of shredded wood or bark in the entire planting area. Mulch will be placed one to two inches away from the trunk of the tree.

3.7.7. Staking or guying
Bamboo stakes, if any, will be removed. Staking or guying is to prevent movement of the lower trunk and root system. Movement of the top is desirable and will strengthen the tree. The stakes will be installed 12-18 inches in undisturbed soil outside of the planting hole. Depending on height and size of the tree, stakes shall be six, eight, or ten feet tall. Trees shall be staked with 3 metal T-posts. Metal stakes will not rub against tree trunks. Tree ties will be located near the lowest main branch on the tree. Check a staked or guyed tree monthly during the growing season and after storms or strong wind. The system will be snug, but not to the point of making an impression on the stem or trunk. If that happens , loosen the tie or wire around the trunk. Do not stake a tree any longer than necessary. One or two growing seasons is all that is needed.

Branches should not rub against the stakes. For trees over four (4) inches, guy wires should be used, with a minimum of three guys. Cable or wire is attached to the tree by running wires through a piece of hose or by using lag hooks on large trees. The guys should be secured to arrowhead-shaped land anchors (C), wooden stakes (D), or deadmen buried in the soil (E).

3.8. PRUNING NEWLY PLANTED TREES

Young trees are pruned to allow for proper growth through the years. If the tree is of high quality, it should need little pruning. It is no longer common practice to automatically trim a certain percentage of limbs from a newly planted tree. The tree needs as much foliage as can be available to assure rapid growth and solid leaf structure. This includes refraining from "limbing up" and topping.

3.8.1. Prohibitions
Topping trees-tree replacement may be required if this is done
Limbing up trees (the practice of cutting the lowest branches to a desired height)

3.8.2. Pruning guidelines (Recommended)
Scaffolding/ permanent branches. Identify the scaffolding/permanent branches. The lowest permanent branch should have a diameter of one-half or less of the trunk diameter where the branch attaches to the trunk. The vertical spacing of permanent scaffold branches should equal a distance equal to 3% of the tree's eventual height. Thus, a tree that will be 50 feet tall should have permanent scaffold branches spaced about 18 inches apart along the trunk. Avoid allowing two scaffold branches to arise one above the other on the same side of the tree. Maintain radial balance with branches growing outward in each direction.

3.8.3. Limb removal (Recommended)
The following may be removed.
a. Torn, damaged, dead branches. Remove the branch just outside of the branch collar. See Illustration 2-9.
b. Double Leaders: Maintain a dominant trunk for at least six-eight feet without a major fork. If the trunk divides into two or more relatively equal stems, favor one strong stem and remove the others. Cut one stem back to a lateral branch.
c. Rubbing branches: Eliminate branches that are rubbing or will soon rub against another branch.
d. Crowding: Give each branch room to grow with minimal competition for sunlight. When possible, have major lateral branches evenly spaced eight to ten inches apart along the trunk. If the tree by its nature would loose too much foliage in the process of eliminating crowding, maintain at least half the foliage on branches in the lower 2/3 of the tree.
e. Narrow Branch Angles/Included Bark: Remove one branch if the angle is 40% or narrower or if it appears that the bark from the branch is becoming pinched between the branch and the trunk.
f. Sprouts and Suckers: Remove sprouts and suckers.
g. Temporary branches: Leave temporary branches that are not competing with permanent, scaffolding branches.

3.9. IRRIGATION
All required landscape areas shall be irrigated by an underground automatic system that may include a drip irrigation system. This system shall adhere to manufacturer specifications and the rules and regulations establishe by Texas Natural Resource Conservation Commission or successor agency. In addition, an irrigation system must be designed by a landscape architect or irrigator licensed by the State of Texas. An irrigation system shall comply with the following guidelines:
3.9.1 sprinkler head spacing shall be designed for head to head coverage and adjusted for prevailing winds. The system shall promote minimum run-off and minimum over spray onto non-irrigated areas.
3.9.2 Sprinkler heads shall have matched precipitation rates within each control valve circuit.
3.9.3 Adjustable flow controls shall be required on circuit remote control valves. Pressure regulation component (s) shall be required where static pressure exceeds manufacturer's recommended operating range.

3.10. IRRIGATION
An automatic irrigation system will be installed. Tree irrigation shall not share the same irrigation zone, including valves and circuits, as shrubs and plants due to different watering requirements. A minimum of one (1) bubbler each shall be provided for all newly planted trees. Trees larger than 4 inches in caliper shall have 2 bubblers. Bubblers shall be located between 1-2 feet from the trunk.

AS-BUILT DRAWING

This record drawing has been prepared, in part, based upon information furnished by others. While this information is believed to be reliable, BAKER-AICKLEN cannot assure its accuracy, and thus is not responsible for the accuracy of this record drawing or for any errors or omissions which may have been incorporated into it as a result. Those relying on this record document are advised to obtain independent verification of its accuracy before applying it for any purpose.

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REGISTERED LANDSCAPE ARCHITECT
PATRICK M. SMITH
1797
STATE OF TEXAS
10/5/07

ROUND ROCK YMCA
ADDITIONS AND RENOVATIONS PHASE II
ROUND ROCK, TEXAS

Drawing File Name

Issued:
1. 08/13/2007
2. 09/10/2007 Response to Comments
3. 10/22/2007 Response to Comments
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Revisions:
1.
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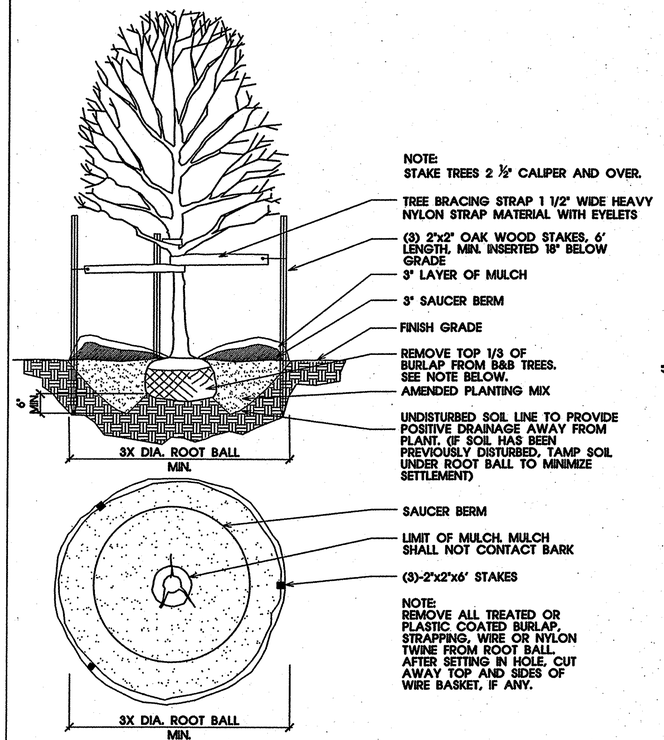
Issue Date: 08/13/07

Drawn By: CC, RM Reviewed By: PS

Project No.
070409 - WTRD

Sheet No.
LN 1



1 TREE PLANTING

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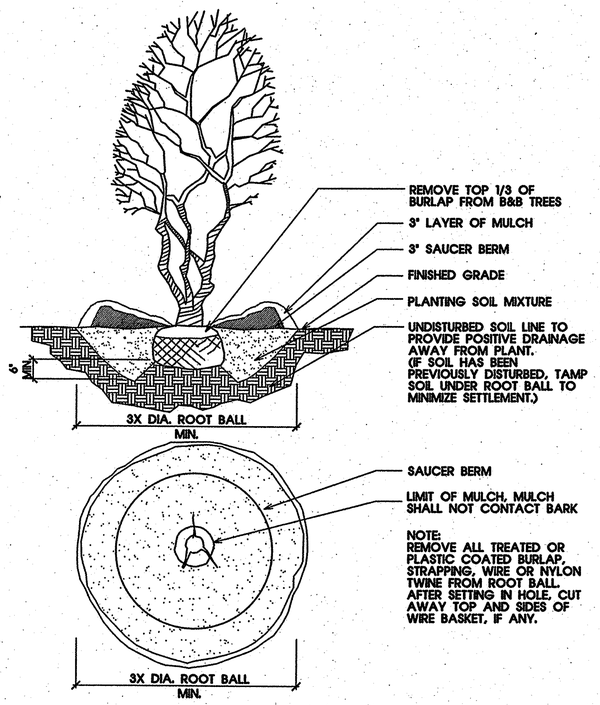
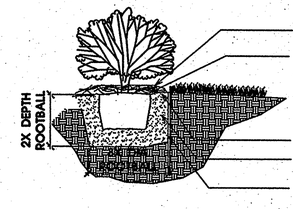


2 TREE PLANTING - MULTISTEM

SCALE: N.T.S.



3 SHRUB BED PLANTING

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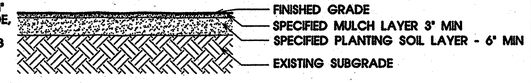

4 PLANT BED AREAS

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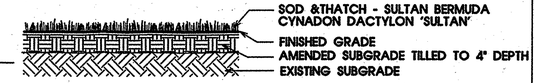

5 SOD AREAS

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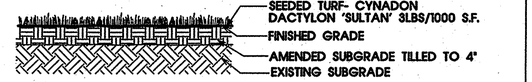

6 SEEDED TURF AREAS

SCALE: N.T.S.

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REGISTERED LANDSCAPE ARCHITECT PATRICK M. SMITH 1797 STATE OF TEXAS 10/22/07

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5. ____

Issue Date: 08/13/07

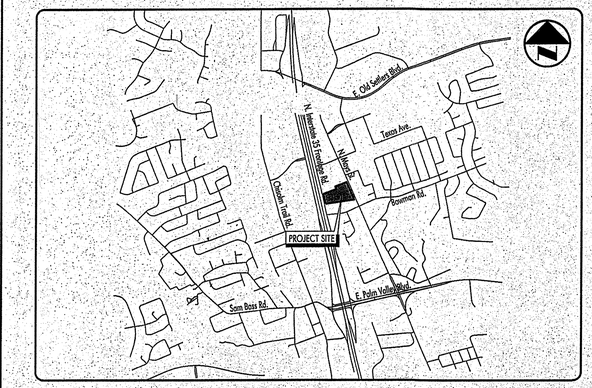
Drawn By: CC, RM **Reviewed By:** PS

Project No. 070409 - WTRD

Sheet No. LD 1

19043BNE

SITE LOCATION MAP



BENCHMARKS

TBM #1 - SANITARY SEWER MANHOLE.
ELEV = 744.47
TBM #2 - SANITARY SEWER MANHOLE LID
ELEV = 747.95
PLANE COORDINATE SYSTEM = CENTRAL ZONE, NAD 83, 93 ADJUSTMENT
VERTICAL DATUM - NAVD88 (GEOID MODEL 2012-A) BASED ON COOPERATIVE GPS RTK NETWORK.

LEGAL DESCRIPTION

LOT 2 SWEETBRIAR II ADDITION CABINET L., SLIDES 281-282 P.R.W.C.T.

PLAN SUBMITTALS

NO.	DATE	COMMENTS
1	6/7/2019	SUBMITTAL TO CITY OF ROUND ROCK DSO.
2	6/13/2019	SUBMITTAL TO THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ)
3	7/8/2019	ISSUED FOR BID
4	7/24/2019	UPDATE SUBMITTAL TO CORR DSO
5	7/29/2019	ISSUED FOR BID
6	9/16/2019	UPDATE SUBMITTAL TO CoRR DSO
7	10/04/2019	ASAP SUBMITTAL TO CORR DSO
8		
9		
10		

SITE DEVELOPMENT PLANS
SUBMITTED FOR
CHASCO YMCA ADDITION
1801 NORTH INTERSTATE 35
ROUND ROCK, TEXAS 78664
SDP1904-0001

Sheet List Table

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN ACCEPTING THESE PLANS, THE CITY OF ROUND ROCK MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

STATE OF TEXAS ★
COUNTY OF WILLIAMSON ★

I, TERRY R. HAGOOD, DO HEREBY CERTIFY THAT THE PUBLIC WORKS AND DRAINAGE IMPROVEMENTS DESCRIBED HEREIN HAVE BEEN DESIGNED IN COMPLIANCE WITH THE SUBDIVISION AND BUILDING REGULATION ORDINANCES AND STORM WATER DRAINAGE POLICY ADOPTED BY THE CITY OF ROUND ROCK, TEXAS.

STATE OF TEXAS ★ TERRY R. HAGOOD 52980 REGISTERED PROFESSIONAL ENGINEER

Terry R. Hagood — 10/04/2019
Terry R. Hagood — Date
Registered Professional Engineer

ACCEPTED FOR CONSTRUCTION BY:

Planning and Development Services — 10-4-2019
City of Round Rock, Texas — Date

SITE PLAN PERMIT NO.	SDP1904-0001
RECORDED FINAL PLAT DOC. NO.	2007079067
WPAP APPROVAL CASE #	11001608 08/07/19

IMPERVIOUS COVER	
PUBLIC SIDEWALK, STREET, CURB AND GUTTER	35,022 SF
BUILDING FOOTPRINT	2,717 SF
PARKING, PRIVATE SIDEWALK	861 SF
TOTAL	38,600 SF
TOTAL AREA OF DISTURBANCE (LOC)	77,117 SF

ASBUILT

THE STATE OF TEXAS
COUNTY OF WILLIAMSON

I, TERRY R. HAGOOD, do hereby seal that the improvements are "as built" and as described herein do comply with the subdivision ordinances and storm water drainage policy adopted by the City of Round Rock, Texas.

Terry R. Hagood — 11/12/2020
Terry R. Hagood — Date
Registered Professional Engineer

STATE OF TEXAS ★ TERRY R. HAGOOD 52980 REGISTERED PROFESSIONAL ENGINEER

013120-2

CONTRACTOR FIELD SET
This plan set shall remain on the site or subdivision premises for the life of the project and shall be utilized for any and all improvements contained herein.

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

OWNER
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BSIMS@STUDIO1619.COM

NOTES:

1. NO PORTION OF THE ABOVE LEGALLY DESCRIBED PROPERTY IS WITHIN THE DESIGNATED 1% ANNUAL CHANCE FLOODPLAIN AREA AS DESIGNATED BY F.E.M.A. FLOOD INSURANCE RATE MAP (FIRM) ON COMMUNITY PANEL NO. 48491C0515E; DATED SEPTEMBER 26, 2008 FOR THE CITY OF ROUND ROCK; WILLIAMSON COUNTY, TEXAS.
2. THIS PROPERTY IS WITHIN THE EDWARDS AQUIFER RECHARGE ZONE.
3. SEE SHEET C00 FOR GENERAL NOTES.
4. THIS SITE WILL HAVE ON-SITE DETENTION.

REVISIONS

NO.	DATE	DESCRIPTION	APPROVED BY
1	10-31-19	SHT 12, 17 & 18 ADJUSTED BENCHMARK + UTILITY CROSSINGS	T.Hagood, P.E.
2	1-15-20	SHT 17, 18 & 20 ADJUST WATER & WATERLINES	T.Hagood, P.E.
3			
4			
5			

900 E. Main Street
Round Rock, TX 78664
Phone (512) 244-1546
Fax (512) 244-1010
www.hea-eng.pro
TBPE Registration No. F-12709

HAGOOD ENGINEERING ASSOCIATES

JOB NO:	18-021
DRAWN BY:	TA
CHECKED BY:	TRH
P.I.C.:	TRH
FILE NO:	18-021CVR
DATE:	10/04/2019
PERMIT NO.	SDP1904-0001

As-Built

N

ABBREVIATIONS
FND. – FOUND
I.R. – IRON ROD
N.F. – NOT FOUND
R.O.W. – RIGHT-OF-WAY
DRWMC – DEED RECORDS OF WILLIAMSON COUNTY, TEXAS
ORWC – OFFICIAL RECORDS OF WILLIAMSON COUNTY, TEXAS
OPRWC – OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS
D W/VL – DEED WITH VENDOR'S LIEN
I / E – INGRESS / EGRESS
P.U.E. – PUBLIC UTILITY EASEMENT

NORTH INTERSTATE HIGHWAY NO. 35

FOUND 1/2" IRON ROD
N68°23'48"E 262.56'
(C = 405.53')
N68°33'25"E 142.79'
(C = 142.82')
15' P.U.E. (PER PLAT)
15' I/E EASEMENT (PER PLAT)
CONC. CURB
ASPHALT
SINGLE AND TWO STONE/STUCCO/BRICK WITH METAL
DUMPSTER
ADA RAMP
COVERED ENTRY
ASPHALT PARKING
FLOWLINE ELEV.= 741.09'
1 - 18" CMP - CHAMFERED END
N13°01'04"W 272.93'
(C = 277.89')
(15' P.U.E. (PER PLAT))
(10' D.E. (PER PLAT))
LOT 2A
ATHLETIC FIELD
BUILDING (WOOD)
WROUGHT IRON FENCE (TYP.)
TOTAL AREA
7.401 ACRES
(322,376 SQ. FT.)
LOT 1A
CONC. WALK
WATER LINE EASEMENT
DOC.# 2009033955 OPRWC
P.U.E.– DOC.# 2009015825 OPRWC
FLOWLINE ELEV.= 739.43'
YMCA SIGN
CONC. ENTRANCE
26' I/E EASEMENT (PER PLAT)
2 - 18" CMP'S - CHAMFERED ENDS
FLOWLINE ELEV.= 738.76'
RETAINING WALL
REGIONAL WATER QUALITY POND EASEMENT (PER PLAT)
CONC. DRAIN
TRANSFORMER PAD
RUBBER MAT
S82°02'25"W 475.97'
(C = 476.37')
CONC. RIBBON CURB
FOUND 1/2" IRON ROD
FOUND 5/8" IRON ROD

SIRLOIN STOCKADE SUBDIVISION

SCALE: 1" = 100'

12/27/2018 12:53 PM

SURVEYORS NOTES:

1. THE BEARINGS SHOWN HEREON ARE ORIENTED TO THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NAD 83, 93 ADJUSTMENT. VERTICAL DATUM UTILIZED IS NGVD 88, GEIOD MODEL 2012–A, BASED ON COOPERATIVE GPS RTK NETWORK.

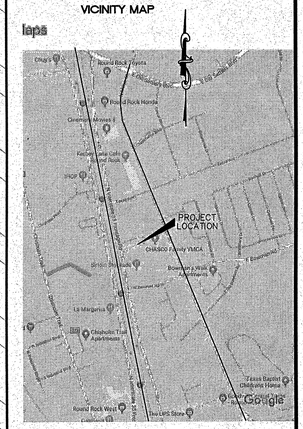
2. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF TITLE REPORT. PARTIES TO THIS TRANSACTION ARE RESPONSIBLE FOR VERIFICATION OF ALL EASEMENTS, COVENANTS AND CONDITIONS WHICH MAY AFFECT THIS TRACT BUT ARE NOT SHOWN HEREON.

3. THE PROPERTY DEPICTED HEREON IS NOT WITHIN A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY; THE FLOOD AREA BEING IDENTIFIED ON F.I.R.M. PANEL NO. 48491C0490E AND 48491C0495E, EFFECTIVE DATE SEPTEMBER 26, 2008, LOCATED IN ZONE "X" (UNSHADED).

4. THERE ARE NO ENCROACHMENTS, CONFLICTS OR PROTRUSIONS, EXCEPT AS SHOWN HEREON, AND SAID PROPERTY HAS ACCESS TO AND FROM A DEDICATED ROADWAY.

5. ALL SET IRON RODS HAVE ORANGE PLASTIC CAPS STAMPED "BRYAN TECH SERVICES"

VICINITY MAP



CONTRACTOR FIELD SET
This plan set shall remain on the site or subdivision premises for the life of the project and shall be utilized for any and all improvements contained herein.

YMCA OF GREATER WILLIAMSON COUNTY, INC., JPMORGAN CHASE BANK

SITE PLAN SURVEY

7.401 ACRE TRACT OUT OF THE DAVID CURRY SURVEY ABSTRACT NO. 130 WILLIAMSON COUNTY, TEXAS

BRYAN TECHNICAL SERVICES, INC.
911 NORTH MAIN
TAYLOR, TX 76574
PHONE: (512) 352-9090
FAX: (512) 352-9091
FIRM No. 10128500
surveying@austin.rr.com
www.bryantechnicalservices.com

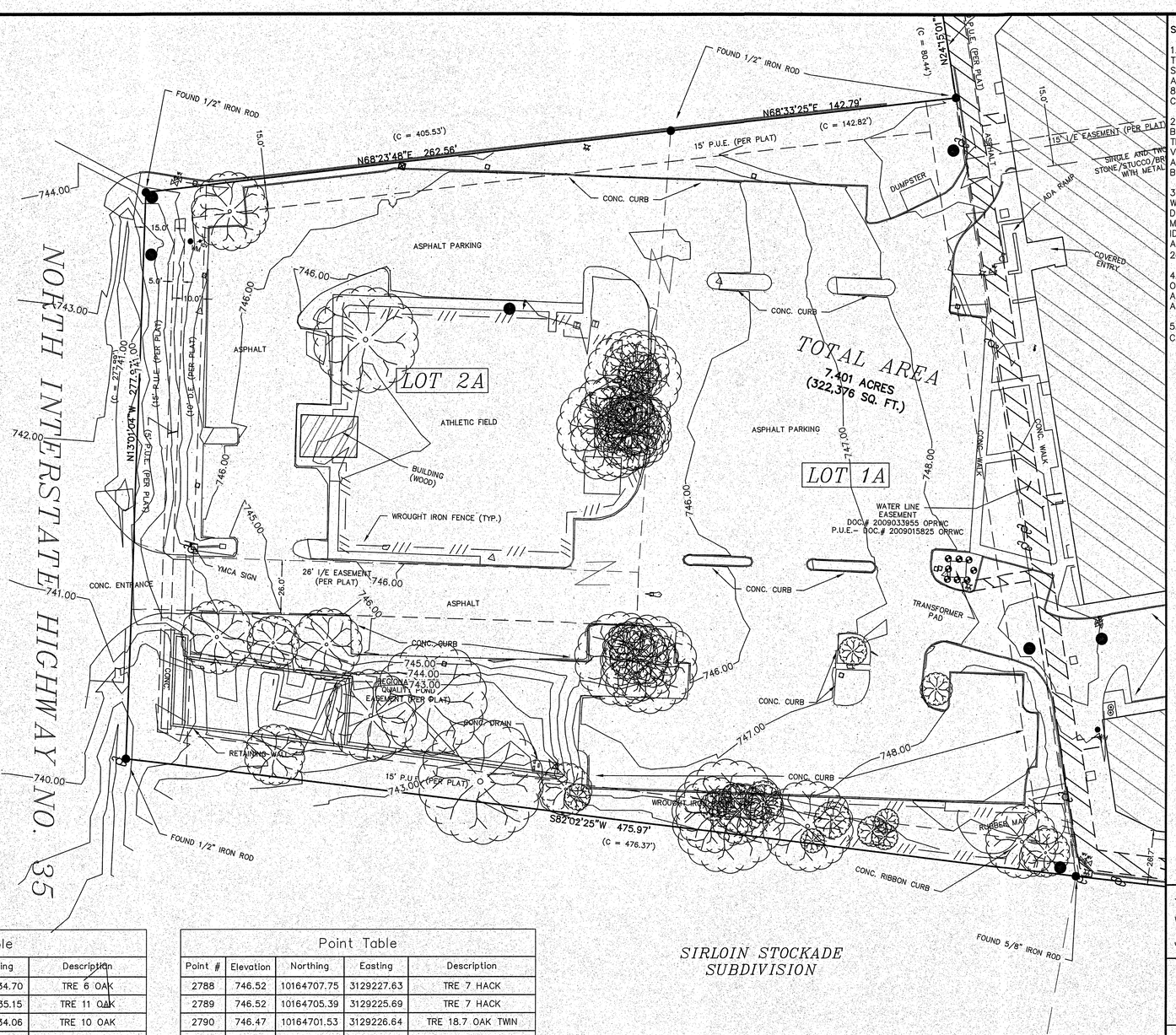
NO.	DATE	REVISIONS	BY

CREW: PT/KT	MODELED BY: BLB
SCALE: 1" = 20'	APPROVED BY: BLB
PROJECT NO. 18–368	DATE: 12–26–18

As-Built

N

ABBREVIATIONS
I.R.F. – IRON ROD
I.R. – IRON ROD
N.F. – NOT FOUND
R.O.W. – RIGHT-OF-WAY
DRWC – DEED RECORDS OF WILLIAMSON COUNTY, TEXAS
OPRWC – OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS
OPRWC – OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS
D W/VL – DEED WITH VENDOR'S LIEN
I / E – INGRESS / EGRESS
P.U.E. – PUBLIC UTILITY EASEMENT



TREE TABLE

Point Table				
Point #	Elevation	Northing	Easting	Description
2748	745.18	10164772.62	3129162.34	TRE 9 OAK TT1851
2749	745.08	10164769.71	3129164.55	TRE 13 OAK TT1850
2750	745.14	10164763.62	3129162.15	TRE 23 OAK TWIN
2751	745.10	10164767.03	3129167.75	TRE 12 OAK TT1847
2752	745.24	10164764.65	3129171.97	TRE 19 OAK TT1845
2753	745.70	10164764.62	3129176.08	TRE 24 OAK TT 741
2754	745.37	10164766.76	3129177.30	TRE 13 OAK TT 739
2755	745.32	10164767.80	3129170.30	TRE 14.5 OAK
2756	744.86	10164877.11	3129141.31	TRE 15.5 OAK
2757	745.94	10164872.99	3129139.68	TRE 18.5 OAK TWIN
2758	744.33	10164873.08	3129135.90	TRE 13.5 OAK
2759	744.26	10164871.28	3129137.79	TRE 17.7 OAK TWIN
2760	744.54	10164875.68	3129138.67	TRE 14 OAK
2761	744.31	10164875.61	3129133.63	TRE 13 OAK
2762	744.14	10164878.83	3129131.42	TRE 7 OAK
2763	744.23	10164877.43	3129129.02	TRE 10.5 OAK
2764	744.62	10164875.61	3129126.51	TRE 16.2 OAK TWIN
2765	746.13	10164870.73	3129126.33	TRE 25.2 OAK TWIN
2766	744.32	10164870.64	3129130.36	TRE 22.2 OAK TWIN
2767	744.85	10164898.22	3129132.19	TRE 24 OAK TRIPLE

Point Table				
Point #	Elevation	Northing	Easting	Description
2768	744.69	10164897.76	3129134.70	TRE 6 OAK
2769	744.80	10164899.63	3129135.15	TRE 11 OAK
2770	744.78	10164901.91	3129134.06	TRE 10 OAK
2771	744.85	10164903.50	3129132.28	TRE 16.5 OAK
2772	744.72	10164901.46	3129130.88	TRE 13.5 OAK
2773	746.65	10164925.38	3128917.41	TRE 19.2 OAK TWIN
2774	747.35	10164882.07	3128999.08	TRE 26.1 OAK 5PRONG
2775	746.93	10164732.60	3129019.08	TRE 17.5 OAK
2776	744.61	10164726.53	3128993.14	TRE 13 OAK
2777	748.67	10164722.02	3128965.42	TRE 18 OAK
2778	743.05	10164735.92	3129119.14	NG
2779	742.16	10164720.31	3129076.09	TRE 27.7 OAK TWIN
2780	742.97	10164704.64	3129049.34	TRE 22.5 OAK TWIN
2781	743.77	10164687.31	3129110.53	TRE 31 OAK
2782	741.56	10164673.55	3129008.13	TRE 15 HACK
2783	745.32	10164694.63	3129152.43	TRE 13 HACK
2784	745.32	10164692.56	3129159.01	TRE 6.5 HACK
2785	747.56	10164714.91	3129249.06	TRE 9.5 HACK
2786	747.36	10164712.95	3129249.31	TRE 9.5 HACK
2787	747.21	10164712.41	3129235.04	TRE 7 HACK

Point Table				
Point #	Elevation	Northing	Easting	Description
2788	746.52	10164707.75	3129227.63	TRE 7 HACK
2789	746.52	10164705.39	3129225.69	TRE 7 HACK
2790	746.47	10164701.53	3129226.64	TRE 18.7 OAK TWIN
2791	746.87	10164702.66	3129233.86	TRE 28 OAK
2792	748.52	10164705.40	3129239.13	TRE 15 OAK
2793	746.79	10164707.84	3129239.53	TRE 12 OAK
2794	746.89	10164701.91	3129277.71	TRE 6 HACK
2795	747.54	10164708.30	3129273.54	TRE 22.45 OAK CLUSTER
2796	748.66	10164790.05	3129317.60	TRE 8 OAK
2797	747.76	10164797.13	3129272.75	TRE 7 OAK
2798	747.44	10164726.04	3129391.10	TRE 12 HACK
2799	749.43	10164728.26	3129378.38	TRE 18 OAK
2800	748.15	10164721.00	3129310.70	TRE 6 ELM
2801	746.80	10164713.24	3129311.84	TRE 6.5 HACK
2802	747.90	10164714.18	3129305.35	TRE 7.5 HACK
2803	747.44	10164714.43	3129284.51	TRE 9 CHINA

SCALE: 1" = 30'

12/27/2018 12:53 PM

LEGEND:
- ○ 1/2" IRON ROD SET
- ● IRON ROD FOUND
- A/C A/C UNIT
- GM GAS METER
- ⊠ PEDESTAL
- PP POWER POLE
- WOOD FENCE
- WROUGHT IRON FENCE
- OVERHEAD ELECTRIC
- FIRE HYDRANT
- LIGHT STANDARD
- WM WATER METER
- MH S/S MANHOLE

SHEET 2 OF 2

SURVEYORS NOTES:

1. THE BEARINGS SHOWN HEREON ARE ORIENTED TO THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NAD 83, 93 ADJUSTMENT. VERTICAL DATUM UTILIZED IS NGVD 88, GEIOD MODEL 2012–A, BASED ON COOPERATIVE GPS RTK NETWORK.

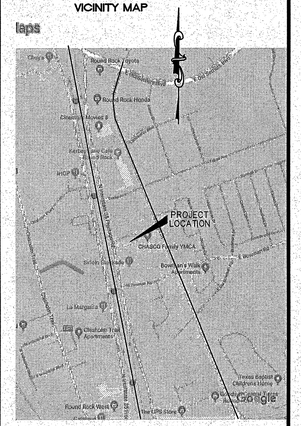
2. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF TITLE REPORT. - PARTIES TO THIS TRANSACTION ARE RESPONSIBLE FOR VERIFICATION OF ALL EASEMENTS, COVENANTS AND CONDITIONS WHICH MAY AFFECT THIS TRACT BUT ARE NOT SHOWN HEREON.

3. THE PROPERTY DEPICTED HEREON IS NOT WITHIN A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY; THE FLOOD AREA BEING IDENTIFIED ON F.I.R.M. PANEL NO. 48491C0490E AND 48491C0495E, EFFECTIVE DATE SEPTEMBER 26, 2008, LOCATED IN ZONE "X" (UNSHADED).

4. THERE ARE NO ENCROACHMENTS, CONFLICTS OR PROTRUSIONS, EXCEPT AS SHOWN HEREON, AND SAID PROPERTY HAS ACCESS TO AND FROM A DEDICATED ROADWAY.

5. ALL SET IRON RODS HAVE ORANGE PLASTIC CAPS STAMPED "BRYAN TECH SERVICES"

VICINITY MAP



CONTRACTOR FIELD SET
This plan set shall remain on the site or subdivision premises for the life of the project and shall be utilized for any and all improvements contained herein.

YMCA OF GREATER WILLIAMSON COUNTY, INC., JPMORGAN CHASE BANK

SITE PLAN SURVEY

7.401 ACRE TRACT OUT OF THE DAVID CURRY SURVEY ABSTRACT NO. 130 WILLIAMSON COUNTY, TEXAS

BRYAN TECHNICAL SERVICES, INC.
911 NORTH MAIN
TAYLOR, TX 76574
PHONE: (512) 352-9090
FAX: (512) 352-9091
FIRM No. 10128500
surveying@austin.rr.com
www.bryantechnicalservices.com

NO.	DATE	REVISIONS	BY

CREW: PT/KT	MODELED BY: BLB
SCALE: 1" = 30'	APPROVED BY: BLB
PROJECT NO. 18–368	DATE: 12–26–18

As-Built

CABINET DD SLIDE 323 Doc.# 2007079067

YMCA OF GREATER WILLIAMSON COUNTY ROUND ROCK BRANCH:

A FINAL PLAT OF 3.209 ACRES AND A REPLAT OF LOT 2 SWEETBRIAR II ADDITION AND CLEARWATER SUBDIVISION

OWNER: YMCA OF GREATER WILLIAMSON COUNTY
P.O. BOX 819
ROUND ROCK, TEXAS 78680

ACREAGE: 7.409 ACRES

SURVEY: DAVID CURRY SURVEY, ABSTRACT NO. 130

NUMBER OF BLOCKS: 1

NUMBER OF LOTS: 2

ZONING: ALL LOTS - C-1 (GENERAL COMMERCIAL)

LINEAR FEET OF NEW STREETS: NONE

DATE: PLANNING & ZONING, AUGUST 15, 2007

DATE: SUBMITTAL, JULY 18, 2007

SURVEYOR: BAKER - AICKLEN & ASSOC., INC.
405 BRUSHY CREEK ROAD
CEDAR PARK, TEXAS 78613
(512) 260-3700

ENGINEER: BAKER - AICKLEN & ASSOC., INC.
507 W. LIBERTY AVENUE
ROUND ROCK, TEXAS 78664
(512) 244-9620

BENCHMARK: TBM 1 ELEVATION 742.77 - SQUARE CUT IN TOP OF THE RETAINING WALL WEST SIDE OF WATER QUALITY POND APPROXIMATELY 2.5' SOUTH OF THE NORTHWEST CORNER.

TBM 2 ELEVATION 745.21 - SQUARE CUT IN THE TOP OF CURB AT THE CENTER OF THE WEST BULLNOSE OF THE NORTHWEST PARKING ISLAND APPROXIMATELY 133' FROM THE NORTHEAST CORNER OF PARKING LOT.

VERTICAL DATUM: NAVD 88(GEOID99) BASED CITY OF ROUND ROCK CONTROL POINT 01-013

NOTES:

1) BUILDING SETBACKS SHALL BE IN ACCORDANCE WITH CHAPTER 11, ZONING, CITY OF ROUND ROCK CODE OF ORDINANCES (1995 EDITION).

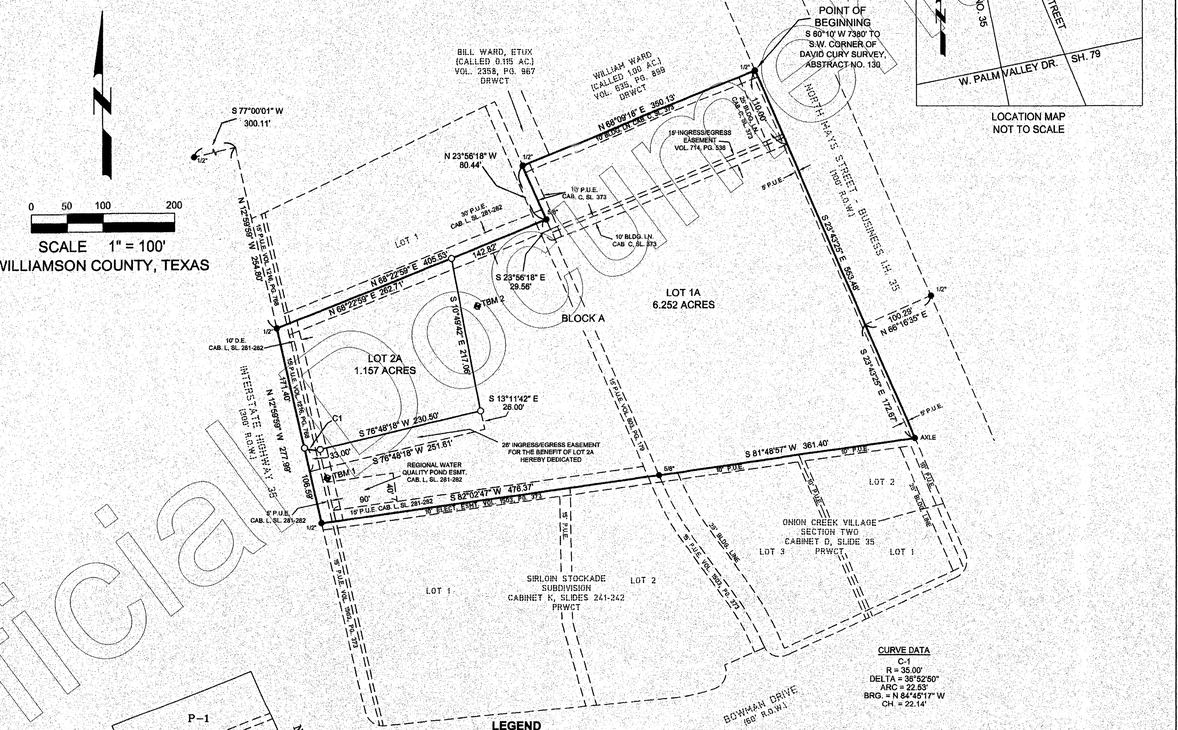
2) BASIS OF BEARINGS IS GRID NORTH FOR THE TEXAS STATE PLANE COORDINATE SYSTEM (4203) NAD '83 (HARN '93)

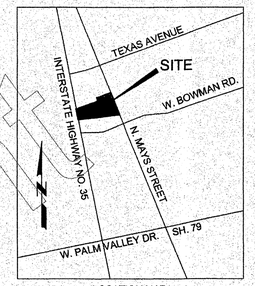
3) NO PORTION OF THIS TRACT IS ENCROACHED BY ANY SPECIAL FLOOD HAZARD AREAS INUNDATED BY THE 100 YEAR FLOOD AS IDENTIFIED BY THE U.S. FEDERAL EMERGENCY MANAGEMENT AGENCY BOUNDARY MAP (FLOOD INSURANCE RATE MAP) COMMUNITY PANEL NUMBER 48491C 0330 D, EFFECTIVE DATE JANUARY 3, 1997, FOR WILLIAMSON COUNTY, TEXAS. NO PORTION OF THIS TRACT IS ENCROACHED BY THE ULTIMATE 100 YR FLOODPLAIN.

4) NO OBSTRUCTIONS, INCLUDING BUT NOT LIMITED TO FENCES, STRUCTURES, STORAGE, OR FILL, SHALL BE PLACED WITHIN THE LIMITS OF ANY DRAINAGE EASEMENT SHOWN HEREON.

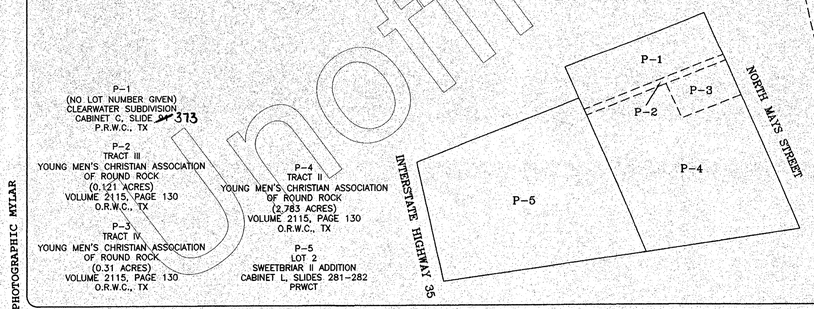
5) LOT 2A WILL TAKE ACCESS THROUGH THE INGRESS/EGRESS EASEMENT DEDICATED HEREIN. NO DIRECT DRIVEWAY ACCESS TO I.H. 35 FROM LOT 2A IS ALLOWED.

6) A 5' P.U.E. ALONG NORTH MAYS STREET IS HEREBY DEDICATED.





LOCATION MAP
NOT TO SCALE



LEGEND

AXLE	●	AXLE FOUND
	●	1/2" IRON ROD FOUND
	○	1/2" IRON ROD SET WITH "BAKER-AICKLEN" CAP
P.U.E.		PUBLIC UTILITY EASEMENT
PRWCT		PLAT RECORDS WILLIAMSON COUNTY
DRWCT		DEED RECORDS WILLIAMSON COUNTY
R.O.W.		RIGHT-OF-WAY
D.E.		DRAINAGE

CONTRACTOR FIELD SET
This plan set shall remain on the site or subdivision premises for the life of the project and shall be utilized for any and all improvements contained herein.

1 OF 2

PROJECT NO. 0129-2-010-00

BAKER-AICKLEN & ASSOCIATES, INC.
Engineers • Surveyors • GIS • Planning
405 BRUSHY CREEK RD.
CEDAR PARK, TX 78613
(512) 260-3700

PLAT 1
04

SITE PERMIT NO.
SDP1904-0001

As-Built

CABINET DD

SLIDE 324

YMCA OF GREATER WILLIAMSON COUNTY ROUND ROCK BRANCH:

A FINAL PLAT OF 3.209 ACRES AND A REPLAT OF LOT 2 SWEETBRIAR II ADDITION AND CLEARWATER SUBDIVISION

THE STATE OF TEXAS)
COUNTY OF WILLIAMSON)

THAT THE YMCA OF GREATER WILLIAMSON COUNTY, ACTING BY AND THROUGH JEFF ANDRESEN, ITS PRESIDENT AND CHIEF EXECUTIVE OFFICER, AS OWNER OF THE CERTAIN 7.409-ACRE TRACT OF LAND SITUATED IN THE DAVID CURRY SURVEY, ABSTRACT NO. 130, IN WILLIAMSON COUNTY, TEXAS, BEING ALL OF THAT CALLED 4.097-ACRE TRACT OF LAND IN DEED TO YOUNG MEN'S CHRISTIAN ASSOCIATION OF ROUND ROCK OF RECORD IN VOLUME 2115, PAGE 130 OF THE OFFICIAL RECORDS OF WILLIAMSON COUNTY, TEXAS, SAID 4.097-ACRE TRACT BEING COMPRISED OF FOUR (4) TRACTS: TRACT I, A CALLED 0.883-ACRE TRACT, BEING ALL OF THAT CERTAIN CLEARWATER, A SUBDIVISION ACCORDING TO THE PLAT OF RECORD IN CABINET C, SLIDE 373 OF THE PLAT RECORDS OF SAID COUNTY, TRACT II, A CALLED 2.783-ACRE TRACT, TRACT III, A CALLED 0.121-ACRE TRACT AND TRACT IV, A CALLED 0.31-ACRE TRACT, AND ALSO BEING ALL OF LOT 2 (3.317 ACRES), SWEETBRIAR II ADDITION, A SUBDIVISION ACCORDING TO THE PLAT OF RECORD IN CABINET L, SLIDES 281-282 OF SAID PLAT RECORDS, DO HEREBY DEDICATE TO THE PUBLIC FOREVER USE OF THE STREETS, ALLEYS, EASEMENTS AND ALL OTHER LANDS INTENDED FOR PUBLIC DEDICATION AS SHOWN HEREON TO BE KNOWN AS:

+ AND CONVEYED BY DEED UNDER DOCUMENT No. 2003071604

YMCA OF GREATER WILLIAMSON COUNTY ROUND ROCK BRANCH:
A FINAL PLAT OF 3.209 ACRES AND A REPLAT OF LOT 2 SWEETBRIAR II ADDITION AND CLEARWATER SUBDIVISION

JEFF ANDRESEN, YMCA OF GREATER WILLIAMSON COUNTY, PRESIDENT / CEO
1812 N. MAIN ST.
ROUND ROCK, TEXAS 78664

THE STATE OF TEXAS)
COUNTY OFWILLIAMSON)

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON THE 01 DAY OF August 2007, BY JEFF ANDRESEN, PRESIDENT / CEO YMCA OF GREATER WILLIAMSON COUNTY.

NOTARY PUBLIC, STATE OF TEXAS

PRINTED NAME Sherry Johnson

MY COMMISSION EXPIRES: 03-20-11

SHERRY JOHNSON
Notary Public, State of Texas
My Commission Expires 03-20-11

THE STATE OF TEXAS)
COUNTY OF WILLIAMSON)

THAT JP MORGAN CHASE, THE LIEN HOLDER OF THE CERTAIN 3.317-ACRE TRACT OF LAND SITUATED IN THE DAVID CURRY SURVEY, ABSTRACT NO. 130, IN WILLIAMSON COUNTY, TEXAS, BEING ALL OF LOT 2, SWETBRIAR II ADDITION, A SUBDIVISION ACCORDING TO THE PLAT OF RECORD IN CABINET L, SLIDES 281-282 OF SAID PLAT RECORDS AND DO FURTHER HEREBY JOIN, APPROVE, AND CONSENT TO THE DEDICATION TO THE PUBLIC FOREVER USE OF THE STREETS, ALLEYS, EASEMENTS AND ALL OTHER LANDS INTENDED FOR PUBLIC DEDICATION AS SHOWN HEREON.

BY: KI ALLEN, VICE PRESIDENT-AUSTIN REGION
JP MORGAN CHASE
221 W. SIXTH STREET – FLOOR 2
AUSTIN, TEXAS 78701-3400

THE STATE OF TEXAS)
COUNTY OF WILLIAMSON)

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON THE 2 DAY OF August 2007, BY KI ALLEN, VICE PRESIDENT-AUSTIN REGION, JP MORGAN CHASE.

NOTARY PUBLIC, STATE OF TEXAS

PRINTED NAME Cynthia C Alvarado

MY COMMISSION EXPIRES: 4-21-2009

CYNTHIA C. ALVARADO
Notary Public
STATE OF TEXAS
My Comm. Exp. 04-21-2009

PHOTOGRAPHIC MYLAR

DESCRIPTION

FOR A 7.409-ACRE TRACT OF LAND SITUATED IN THE DAVID CURRY SURVEY, ABSTRACT NO. 130, IN WILLIAMSON COUNTY, TEXAS, BEING ALL OF THAT CALLED 4.097-ACRE TRACT OF LAND IN DEED TO YOUNG MEN'S CHRISTIAN ASSOCIATION OF ROUND ROCK OF RECORD IN VOLUME 2115, PAGE 130 OF THE OFFICIAL RECORDS OF WILLIAMSON COUNTY, TEXAS, SAID 4.097-ACRE TRACT BEING COMPRISED OF FOUR (4) TRACTS: TRACT I, A CALLED 0.883-ACRE TRACT, BEING ALL OF THAT CERTAIN CLEARWATER, A SUBDIVISION ACCORDING TO THE PLAT OF RECORD IN CABINET C, SLIDE 373 OF THE PLAT RECORDS OF SAID COUNTY, TRACT II, A CALLED 2.783-ACRE TRACT, TRACT III, A CALLED 0.121-ACRE TRACT AND TRACT IV, A CALLED 0.31-ACRE TRACT, SAID 7.409-ACRE TRACT AND ALSO BEING ALL OF LOT 2, SWEETBRIAR II ADDITION, A SUBDIVISION ACCORDING TO THE PLAT OF RECORD IN CABINET L, SLIDES 281-282 OF SAID PLAT RECORDS, IS MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING AT A 1/2" IRON ROD FOUND ON A POINT IN THE WEST RIGHT-OF-WAY LINE OF NORTH MAYS STREET (100'RIGHT-OF-WAY WIDTH), SAID POINT BEING THE NORTHEAST CORNER OF SAID TRACT I ("CLEARWATER" SUBDIVISION), SAME BEING THE NORTHEAST CORNER OF SAID 4.097-ACRE TRACT, FOR THE NORTHEAST CORNER AND THE POINT OF BEGINNING HEREOF;

THENCE WITH THE WEST RIGHT-OF-WAY LINE OF SAID NORTH MAYS STREET, SAME BEING THE EAST BOUNDARY LINES, IN ORDER, OF SAID TRACT I, TRACT III, TRACT IV AND TRACT II, WHICH CONSTITUTE, IN TOTAL, THE EAST BOUNDARY LINE OF SAID 4.097-ACRE TRACT, S 23°43'25" E FOR A DISTANCE OF 553.48 FEET TO AN IRON AXLE FOUND ON A POINT BEING THE NORTHEAST CORNER OF LOT 2, "ONION CREEK VILLAGE, SECTION TWO", A SUBDIVISION ACCORDING TO THE PLAT OF RECORD IN CABINET D, SLIDE 95 OF THE PLAT RECORDS OF WILLIAMSON COUNTY, TEXAS, SAME BEING THE SOUTHEAST CORNER OF SAID 4.097-ACRE TRACT, FOR THE SOUTHEAST CORNER HEREOF;

THENCE DEPARTING THE WEST RIGHT-OF-WAY LINE OF SAID NORTH MAYS STREET WITH THE NORTH BOUNDARY LINE OF SAID "ONION CREEK VILLAGE, SECTION TWO", S 81°48'57" W FOR A DISTANCE OF 381.40 FEET TO A 5/8" IRON ROD FOUND ON A POINT BEING THE NORTHWEST CORNER OF LOT 3 SAID "ONION CREEK VILLAGE, SECTION TWO", SAME BEING THE SOUTHEAST CORNER OF LOT 2, "SWEETBRIAR II ADDITION", A SUBDIVISION ACCORDING TO THE PLAT OF RECORD IN CABINET L, SLIDE 281 OF THE PLAT RECORDS OF WILLIAMSON COUNTY, TEXAS, ALSO BEING THE NORTHEAST CORNER OF LOT 2, "SIRLOIN STOCKADE SUBDIVISION", A SUBDIVISION ACCORDING TO THE PLAT OF RECORD IN CABINET K, SLIDES 241-242 OF THE PLAT RECORDS OF WILLIAMSON COUNTY, TEXAS, SAME BEING THE SOUTHWEST CORNER OF SAID 4.097-ACRE TRACT, FOR THE SOUTHWEST CORNER HEREOF;

THENCE WITH THE SOUTH BOUNDARY LINE OF SAID LOT, SAME BEING THE NORTH BOUNDARY LINE OF SAID SIRLOIN STOCKADE SUBDIVISION, S 82°02'47" W FOR A DISTANCE OF 476.37 FEET TO A 1/2" IRON ROD FOUND ON A POINT IN THE EAST RIGHT-OF-WAY LINE OF INTERSTATE HIGHWAY NO. 35 (300' RIGHT-OF-WAY WIDTH), SAID POINT BEING THE NORTHWEST CORNER OF SAID SIRLOIN STOCKADE SUBDIVISION, SAME BEING THE SOUTHWEST CORNER OF SAID LOT 2 FOR THE SOUTHWEST CORNER HEREOF

THENCE WITH THE EAST RIGHT-OF-WAY LINE OF SAID INTERSTATE HIGHWAY NO. 35, SAME BEING THE WEST BOUNDARY LINE OF SAID LOT 2, N 12°59'59" W FOR A DISTANCE OF 277.99 FEET TO A 1/2" IRON ROD FOUND AT THE SOUTHWEST CORNER OF LOT 1 SAID SWEETBRIAR II ADDITION, SAME BEING THE NORTHWEST CORNER OF SAID LOT 2 FOR THE NORTHWEST CORNER HEREOF

THENCE DEPARTING THE EAST RIGHT-OF-WAY LINE OF SAID INTERSTATE HIGHWAY NO. 35 WITH THE COMMON BOUNDARY LINE BETWEEN SAID LOT 1 AND SAID LOT 2 , N 68°22'59" E FOR A DISTANCE OF 405.53 FEET TO A 5/8" IRON ROD FOUND ON A POINT IN THE WEST BOUNDARY LINE OF SAID CLEARWATER, SAID POINT BEING THE SOUTHEAST CORNER OF SAID LOT 1, SAME BEING THE NORTHEAST CORNER OF SAID LOT 2 FOR AN ANGLE POINT IN THE NORTH BOUNDARY LINE HEREOF;

THENCE WITH THE WEST BOUNDARY LINE OF SAID CLEARWATER, SAME BEING THE EAST BOUNDARY LINE OF SAID LOT 1, N 25°58'18" W FOR A DISTANCE OF 80.44 FEET TO A 1/2" IRON ROD FOUND AT THE NORTHWEST CORNER OF SAID CLEARWATER FOR THE NORTHWEST CORNER HEREOF;

THENCE WITH THE NORTH BOUNDARY LINE OF SAID CLEARWATER, N 68°09'18" E FOR A DISTANCE OF 350.13 FEET TO THE POINT OF BEGINNING HEREOF AND CONTAINING 7.409 ACRES OF LAND.

THE STATE OF TEXAS)
COUNTY OF WILLIAMSON)

THAT I, A. WILLIAM WAELTZ, CERTIFY THAT THE INFORMATION CONTAINED ON THIS PLAT COMPLIES WITH CHAPTER 8, SUBDIVISIONS, CITY OF ROUND ROCK CODE OF ORDINANCES (1995 EDITION), AND THE DESIGN AND CONSTRUCTION STANDARDS ADOPTED BY THE CITY OF ROUND ROCK, TEXAS.

A. WILLIAM WAELTZ, LICENSED PROFESSIONAL ENGINEER NO. 68220 — DATE 8-1-07

STATE OF TEXAS
A. WILLIAM WAELTZ
68220
LICENSED
PROFESSIONAL ENGINEER

THE STATE OF TEXAS)
COUNTY OF WILLIAMSON)

THAT I, PARKER J. GRAHAM, DO HEREBY CERTIFY THAT I PREPARED THIS PLAT FROM AN ACTUAL AND ACCURATE ON-THE-GROUND SURVEY OF THE LAND AND THAT THE CORNER MONUMENTS SHOWN THEREON WERE PROPERLY PLACED UNDER MY PERSONAL SUPERVISION, IN ACCORDANCE WITH CHAPTER 8, SUBDIVISIONS, CITY OF ROUND ROCK CODE OF ORDINANCES (1995 EDITION).

PARKER J. GRAHAM, REGISTERED PROFESSIONAL LAND SURVEYOR NO. 5556 — DATE 08/01/2007

STATE OF TEXAS
REGISTERED
PARKER GRAHAM
5556
PROFESSIONAL
LAND SURVEYOR

THE STATE OF TEXAS)
COUNTY OF WILLIAMSON)

I, NANCY RISTER, CLERK OF THE COUNTY COURT OF SAID COUNTY, DO HEREBY CERTIFY THAT THE FORGOING INSTRUMENT IN WRITING, WITH ITS CERTIFICATION OF AUTHENTICATION, WAS FILED FOR RECORD IN MY OFFICE ON THE 14TH DAY OF SEPTEMBER, 2007, A.D., AT 1:21 O'CLOCK P.M. AND DULY RECORDED ON THE 14TH DAY OF SEPTEMBER, 2007, A.D., AT 2:46 O'CLOCK P.M. IN THE PLAT RECORDS OF SAID COUNTY, IN CABINET DD SLIDES 323 AND 324

WITNESS MY HAND AND SEAL OF THE COUNTY COURT OF SAID COUNTY, AT OFFICE IN GEORGETOWN, TEXAS, THE DATE LAST ABOVE WRITTEN.

NANCY RISTER, CLERK, COUNTY COURT
WILLIAMSON COUNTY, TEXAS

BY: DEPUTY WILLIAM SHINLING

COUNTY COURT
WILLIAMSON COUNTY, TEXAS

THE STATE OF TEXAS)
COUNTY OF WILLIAMSON)

APPROVED THIS 15TH DAY OF AUGUST, 2007, BY THE CITY PLANNING AND ZONING COMMISSION OF THE CITY OF ROUND ROCK, TEXAS, AND AUTHORIZED TO BE FILED FOR RECORD BY THE COUNTY CLERK OF WILLIAMSON COUNTY, TEXAS..

AL KOSIK, CHAIRMAN — PETER DRAPES, VICE CHAIR

APPROVED, ON THE 15TH DAY OF AUGUST, 2007.

KYLE MAXWELL, MAYOR
CITY OF ROUND ROCK, TEXAS

ATTEST:
CHRISTINE R. MARTINEZ, CITY SECRETARY
CITY OF ROUND ROCK, TEXAS

2 OF 2

PROJECT NO. 0129-2-010-00

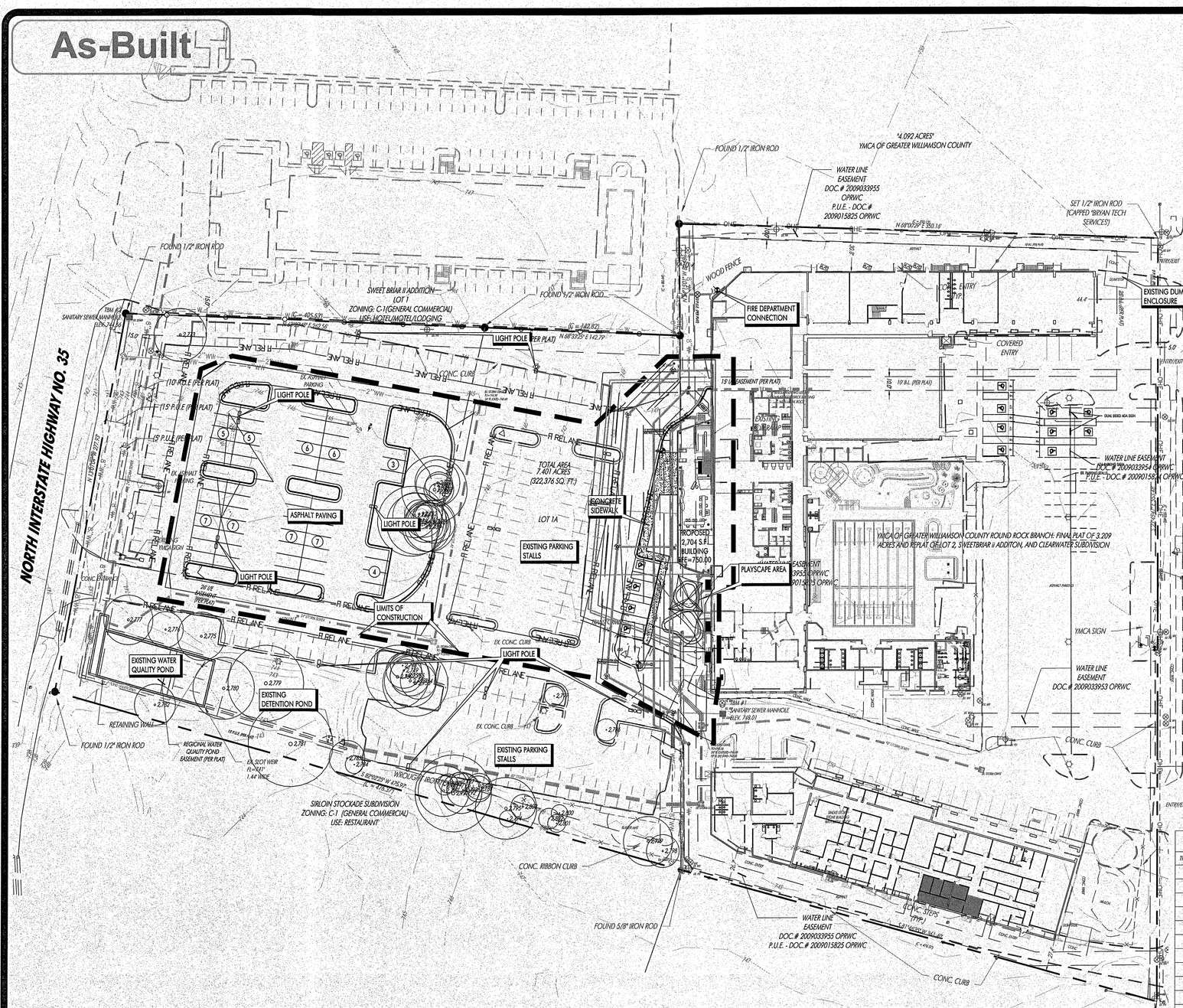
BAKER-AICKLEN & ASSOCIATES, INC.
Engineers • Surveyors • GIS • Planning
405 BRUSHY CREEK RD.
CEDAR PARK, TX 78613
(512) 260-3700

CONTRACTOR FIELD SET
This plan set shall remain on the site or subdivision premises for the life of the project and shall be utilized for any and all improvements contained herein.

PLAT2
05

SITE PLAN NO.
SDP1904-0001

As-Built



0 40 80

SCALE: 1" = 40'

TYPE OF CONSTRUCTION	
BUILDING OCCUPANCY TYPE:	ASSEMBLY GROUP A-3
TYPE OF CONSTRUCTION:	TYPE V-B
HEIGHT:	25'-0"
FRAME:	STEEL

PROPOSED USAGE	GYMNASIUM & PARKING (COMMERCIAL)
ZONING	C-1 (GENERAL COMMERCIAL)

PARKING COUNT TABLE	EXISTING	REMOVED	PROPOSED	TOTAL	REQUIRED
TOTAL # OF PARKING SPACES:	334	21	57	370	303
# OF STANDARD PARKING SPACES:	324	20	57	361	295
# OF ADA PARKING SPACES:	10	1	0	9	8

CALCULATIONS		
EXISTING BUILDING AREA	73,071 SF	
NEW BUILDING FOOTPRINT AREA	2,717 SF	
LOT ACREAGE	322,388 SF	7.401 Ac.

LEGEND

- IRON ROD FOUND/SET
- CONCRETE MONUMENT FOUND/SET
- NAIL FOUND/SET
- PIPE FOUND
- STORMWATER MANHOLE (DRAWN TO SCALE)
- JUNCTION BOX (DRAWN TO SCALE)
- GRATE INLET (DRAWN TO SCALE)
- WASTEWATER MANHOLE (DRAWN TO SCALE)
- WASTEWATER CLEANOUT
- GAS TEST STATION
- GAS METER
- ELECTRIC METER
- LIGHT POLE
- SIGNAL LIGHT POLE
- UTILITY POLE
- TELEPHONE MANHOLE
- FIRE HYDRANT
- GATE VALVE
- IRRIGATION CONTROL VALVE
- WATER METER
- EXISTING CONTOURS
- PROPOSED CONTOUR
- PROPOSED CURB AND GUTTER
- PROPOSED X" DIA. GAS LINE
- PROPOSED X" DIA. STORM SEWER LINE
- PROPOSED X" DIA. WASTEWATER LINE
- PROPOSED X" DIA. WATER LINE
- EXISTING CHAIN LINK FENCE
- EXISTING WIRE FENCE
- EXISTING WOOD FENCE
- SETBACK LINE
- EASEMENT LINE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING OVERHEAD TELEPHONE LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING WATER LINE (SIZE VARIES)
- EXISTING WASTEWATER LINE (SIZE VARIES)
- EXISTING FORCE MAIN (SIZE VARIES)
- EXISTING FIBER OPTIC LINE
- EXISTING GAS LINE (SIZE VARIES)
- BENCHMARK LOCATION
- EXISTING TREE TO REMAIN (SIZE VARIES)
- EXISTING TREE TO BE REMOVED (SIZE VARIES)
- UTILITY LINE TO BE DEMOLISHED/ABANDONED
- LIMITS OF CONSTRUCTION

NOTE:

1. EXISTING DOUBLE DUMPSTER LOCATED AT THE NORTH EAST CORNER OF THE YMCA OF GREATER WILLIAMSON COUNTY ROUND ROCK TRACT WILL BE UTILIZED AT THE DUMPSTER ENCLOSURE FOR THIS PROJECT.

CONTRACTOR FIELD SET
This plan set shall remain on the site or subdivision premises for the life of the project and shall be utilized for any and all improvements contained herein.

TREE SURVEY

TREE NUMBER	CALIPERS	TOTAL CALIPERS	SPECIES	STATUS
2,748	9	9.00"	OAK	TO REMAIN
2,749	13	13.00"	OAK	TO REMAIN
2,750	23	23.00"	OAK TWIN	TO REMAIN
2,751	12	12.00"	OAK	TO REMAIN
2,752	19	19.00"	OAK	TO REMAIN
2,753	24	24.00"	OAK	TO REMAIN
2,754	13	13.00"	OAK	TO REMAIN
2,755	14.5	14.50"	OAK	TO REMAIN
2,756	15.5	15.50"	OAK	TO REMAIN
2,757	18.5	18.50"	OAK TWIN	TO REMAIN
2,758	13.5	13.50"	OAK	TO REMAIN
2,759	17.7	17.70"	OAK TWIN	TO REMAIN
2,760	14	14.00"	OAK	TO REMAIN
2,761	13	13.00"	OAK	TO REMAIN
2,762	7	7.00"	OAK	TO REMAIN
2,763	10.5	10.50"	OAK	TO REMAIN
2,764	16.2	16.20"	OAK TWIN	TO REMAIN
2,765	25.2	25.20"	OAK TWIN	TO REMAIN
2,766	22.2	22.20"	OAK TWIN	TO REMAIN
2,767	24	24.00"	OAK	TO REMAIN
2,768	6	6.00"	OAK	TO REMAIN
2,769	11	11.00"	OAK	TO REMAIN
2,770	10	10.00"	OAK	TO REMAIN
2,771	16.5	16.50"	OAK	TO REMAIN
2,772	13.5	13.50"	OAK	TO REMAIN
2,773	19.2	19.20"	OAK TWIN	TO REMAIN
2,774	26.1	26.10"	OAK	TO BE REMOVED
2,775	17.5	17.50"	OAK	TO REMAIN

TREE SURVEY

TREE NUMBER	CALIPERS	TOTAL CALIPERS	SPECIES	STATUS
2,776	13	13.00"	OAK	TO REMAIN
2,777	18"	0.00"	LIVE OAK	TO REMAIN
2,779	27.7	27.70"	OAK TWIN	TO REMAIN
2,780	22.5	22.50"	OAK TWIN	TO REMAIN
2,781	31	31.00"	OAK	TO REMAIN
2,782	15	15.00"	HACKBERRY	TO REMAIN
2,783	13	13.00"	HACKBERRY	TO REMAIN
2,784	6.5	6.50"	HACKBERRY	TO REMAIN
2,785	9.5	9.50"	HACKBERRY	TO REMAIN
2,786	9.5	9.50"	HACKBERRY	TO REMAIN
2,787	7	7.00"	HACKBERRY	TO REMAIN
2,788	7	7.00"	HACKBERRY	TO REMAIN
2,789	7	7.00"	HACKBERRY	TO REMAIN
2,790	18.7	18.70"	OAK TWIN	TO REMAIN
2,791	28	28.00"	OAK	TO REMAIN
2,792	15	15.00"	OAK	TO REMAIN
2,793	12	12.00"	OAK	TO REMAIN
2,794	6	6.00"	HACKBERRY	TO REMAIN
2,795	22.45	22.45"	OAK CLUSTER	TO REMAIN
2,796	8	8.00"	OAK	TO REMAIN
2,797	7	7.00"	OAK	TO REMAIN
2,798	12	12.00"	HACKBERRY	TO REMAIN
2,799	18	18.00"	OAK	TO REMAIN
2,800	6	6.00"	ELM	TO REMAIN
2,801	6.5	6.50"	HACKBERRY	TO REMAIN
2,802	7.5	7.50"	HACKBERRY	TO REMAIN
2,803	9	9.00"	CHINABERRY	TO REMAIN

HAGOOD ENGINEERING ASSOCIATES
900 E. Main Street
Round Rock, TX 78664
Phone (512) 344-1546
Fax (512) 344-1010
www.heoeng.com
TBPE Registration No. F-12709

STATE OF TEXAS
TERRY R. HAGOOD
52960
REGISTERED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY TERRY R. HAGOOD, P.E. 10/04/2019

DATE SIGNED: 10/04/2019
ISSUED FOR: AGENCY REVIEW

SITE DEVELOPMENT IMPROVEMENTS
CHASCO YMCA ADDITION
1801 NORTH INTERSTATE HIGHWAY 35
ROUND ROCK, TX 78664

NO.	DATE	DESCRIPTION

REVISIONS

HEA PROJECT NO. 18-021
ISSUED DATE: 10/04/2019

OVERALL SITE PLAN

SHEET NO.
SP1
06
SITE PLAN NO.
SDP1904-0001

Oct 07, 2019-8:51am Z:\HEA\HEA Projects\Projects 18-000\18-021 Chasco YMCA\CAD Files\Civil\SDP\18-021SP1.dwg

As-Built

CITY OF ROUND ROCK GENERAL CONSTRUCTION NOTES

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF ROUND ROCK STANDARD CONSTRUCTION SPECIFICATIONS
2. ANY EXISTING UTILITIES, PAVEMENT, CURBS, SIDEWALKS, STRUCTURES, TREES, ETC., NOT PLANNED FOR DESTRUCTION OR REMOVAL THAT ARE DAMAGED OR REMOVED SHALL BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR SHALL VERIFY ALL DEPTHS AND LOCATIONS OF EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES WITH THE CONSTRUCTION PLANS FOUND IN THE FIELD SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER WHO SHALL BE RESPONSIBLE FOR REVISING THE PLANS AS APPROPRIATE.
4. MANHOLE FRAMES, COVERS, VALVES, CLEANOUTS, ETC. SHALL BE RAISED TO FINISHED GRADE PRIOR TO FINAL PAVING CONSTRUCTION.
5. THE CONTRACTOR SHALL GIVE THE CITY OF ROUND ROCK 48 HOURS NOTICE BEFORE BEGINNING EACH PHASE OF CONSTRUCTION. TELEPHONE (512) 218-7043 (DEVELOPMENT SERVICES DEPARTMENT).
6. ALL AREAS DISTURBED OR EXPOSED DURING CONSTRUCTION SHALL BE RENEGOTIATED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. RENEGOTIATION OF ALL DISTURBED OR EXPOSED AREAS SHALL CONSIST OF SODDING OR SEEDING, AT THE CONTRACTOR'S OPTION. HOWEVER, THE TYPE OF RENEGOTIATION MUST EQUAL OR EXCEED THE TYPE OF VEGETATION PRESENT BEFORE CONSTRUCTION UNLESS NOTED OTHERWISE.
7. PRIOR TO ANY CONSTRUCTION, THE ENGINEER SHALL CONVENE A RECONSTRUCTION CONFERENCE BETWEEN THE CITY OF ROUND ROCK, HIMSELF, THE CONTRACTOR, OTHER UTILITY COMPANIES, ANY AFFECTED PARTIES AND ANY OTHER ENTITY THE CITY OR ENGINEER MAY REQUIRE.
8. THE CONTRACTOR AND THE ENGINEER SHALL KEEP ACCURATE RECORDS OF ALL CONSTRUCTION THAT DEVIATES FROM THE PLANS. THE ENGINEER SHALL FURNISH THE CITY OF ROUND ROCK ACCURATE "AS-BUILT" DRAWINGS FOLLOWING COMPLETION OF ALL CONSTRUCTION. THESE "AS-BUILT" DRAWINGS SHALL MEET WITH THE SATISFACTION OF THE PUBLIC WORKS DEPARTMENT PRIOR TO FINAL ACCEPTANCE.
9. THE ROUND ROCK CITY COUNCIL SHALL NOT BE PETITIONED FOR ACCEPTANCE UNTIL ALL NECESSARY EASEMENT DOCUMENTS HAVE BEEN SIGNED AND RECORDED.
10. WHEN CONSTRUCTION IS BEING CARRIED OUT WITHIN EASEMENTS, THE CONTRACTOR SHALL CONFINE HIS WORK TO WITHIN THE PERMANENT AND ANY TEMPORARY EASEMENTS. PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TRASH AND DEBRIS WITHIN THE PERMANENT AND TEMPORARY EASEMENTS. CLEAN-UP SHALL BE TO THE SATISFACTION OF THE ENGINEER.
11. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL APPLY FOR AND SECURE ALL PROPER PERMITS FROM THE APPROPRIATE AUTHORITIES.
12. AVAILABLE BENCHMARKS THAT MAY BE UTILIZED FOR THE CONSTRUCTION OF THIS PROJECT ARE DESCRIBED AS FOLLOWS:

TBM #1 - SANITARY SEWER MANHOLE.
ELEV = 744.66'

TBM #2 - SANITARY SEWER MANHOLE LID
ELEV = 748.01'

PLANE COORDINATE SYSTEM = CENTRAL ZONE, NAD 83, 93 ADJUSTMENT
VERTICAL DATUM - NAVD88 (GEOID MODEL 2012-A) BASED ON COOPERATIVE GPS RTK NETWORK.

TRENCH SAFETY NOTES:

1. IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND THE U. S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS, ALL TRENCHES OVER 5 FEET IN DEPTH IN EITHER HARD AND COMPACT OR SOFT AND UNSTABLE SOIL SHALL BE SLOPED, SHORED, SHEETED, BRACED OR OTHERWISE SUPPORTED. FURTHERMORE, ALL TRENCHES LESS THAN 5 FEET IN DEPTH SHALL ALSO BE EFFECTIVELY PROTECTED WHEN HAZARDOUS GROUND MOVEMENT MAY BE EXPECTED. TRENCH SAFETY SYSTEMS TO BE UTILIZED FOR THIS PROJECT ARE DESCRIBED IN SECTION 312333 OF THE SPECIFICATIONS. AN ENGINEERED TRENCH SAFETY PLAN SHALL BE SUBMITTED PRIOR TO ANY EXCAVATION.
2. IN ACCORDANCE WITH THE U. S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS, WHEN PERSONS ARE IN TRENCHES 4 FEET DEEP OR MORE, ADEQUATE MEANS OF EXIT, SUCH AS A LADDER OR STEPS, MUST BE PROVIDED AND LOCATED SO AS TO REQUIRE NO MORE THAN 25 FEET OF LATERAL TRAVEL.
3. IF TRENCH SAFETY SYSTEM DETAILS WERE NOT PROVIDED IN THE PLANS BECAUSE TRENCHES WERE ANTICIPATED TO BE LESS THAN 5 FEET IN DEPTH AND DURING CONSTRUCTION IT IS FOUND THAT TRENCHES ARE IN FACT 5 FEET OR MORE IN DEPTH OR OR TRENCHES LESS THAN 5 FEET IN DEPTH ARE IN AN AREA WHERE HAZARDOUS GROUND MOVEMENT IS EXPECTED, ALL CONSTRUCTION SHALL CEASE, THE TRENCHED AREA SHALL BE BARRICADED AND THE ENGINEER NOTIFIED IMMEDIATELY. CONSTRUCTION SHALL NOT RESUME UNTIL APPROPRIATE TRENCH SAFETY SYSTEM DETAILS, AS DESIGNED BY A PROFESSIONAL ENGINEER, ARE RETAINED AND COPIES SUBMITTED TO THE CITY OF ROUND ROCK.

STREET AND DRAINAGE NOTES:

1. ALL TESTING SHALL BE DONE BY AN INDEPENDENT LABORATORY AT THE OWNER'S EXPENSE. ANY RETESTING SHALL BE PAID FOR BY THE CONTRACTOR. A CITY INSPECTOR SHALL BE PRESENT DURING ALL TESTS. TESTING SHALL BE COORDINATED WITH THE CITY INSPECTOR AND HE SHALL BE GIVEN A MINIMUM OF 24 HOURS NOTICE PRIOR TO ANY TESTING. TELEPHONE (512) 218-5555 (INSPECTIONS).
2. BACKFILL BEHIND THE CURB SHALL BE COMPACTED TO OBTAIN A MINIMUM OF 95% MAXIMUM DENSITY TO WITHIN 3" OF TOP OF CURB. MATERIAL USED SHALL BE PRIMARILY GRANULAR WITH NO ROCKS LARGER THAN 6" IN THE GREATEST DIMENSION. THE REMAINING 3" SHALL BE CLEAN TOPSOIL FREE FROM ALL CLODS AND SUITABLE FOR SUSTAINING PLANT LIFE.
3. DEPTH OF COVER FOR ALL CROSSINGS UNDER PAVEMENT INCLUDING GAS, ELECTRIC, TELEPHONE, CABLE TV, WATER SERVICES, ETC., SHALL BE A MINIMUM OF 30" BELOW UPGRADE.
4. STREET RIGHTS-OF-WAY SHALL BE GRADED AT A SLOPE OF 1/4" PER FOOT TOWARD THE CURB UNLESS OTHERWISE INDICATED. HOWEVER, IN NO CASE SHALL THE WIDTH OF RIGHT-OF-WAY AT 1/4" PER FOOT SLOPE BE LESS THAN 10 FEET UNLESS A SPECIFIC REQUEST FOR AN ALTERNATE GRADING SCHEME IS MADE TO AND ACCEPTED BY THE CITY OF ROUND ROCK DEVELOPMENT SERVICES DEPARTMENT.
5. BARRICADES BUILT TO CITY OF ROUND ROCK STANDARDS SHALL BE CONSTRUCTED ON ALL DEAD-END STREETS AND AS NECESSARY DURING CONSTRUCTION TO MAINTAIN JOB AND PUBLIC SAFETY.
6. ALL R.C.P. SHALL BE MINIMUM CLASS III.
7. THE UPGRADE MATERIAL FOR THE STREETS SHOWN HEREIN WAS TESTED BY: ALLIANCE ENGINEERING GROUP, INC. IN A REPORT DATED FEBRUARY 2017, AND THE PAVING SECTIONS DESIGNED IN ACCORDANCE WITH THE CURRENT CITY OF ROUND ROCK DESIGN CRITERIA. THE PAVING SECTIONS ARE TO BE CONSTRUCTED AS FOLLOWS: SEE DETAIL SHEET 17/C70

MAC THICKNESS FLEXIBLE BASE THICKNESS STATION STREET LIME STABILIZATION THICKNESS

THE GEOGRAPHICAL ENGINEER SHALL INSPECT THE UPGRADE FOR COMPLIANCE WITH THE DESIGN ASSUMPTIONS MADE DURING PREPARATION OF THE SOILS REPORT. ANY ADJUSTMENTS THAT ARE REQUIRED SHALL BE MADE THROUGH REVISION OF THE CONSTRUCTION PLANS.

8. WHERE PI'S ARE OVER 20, UPGRADES MUST BE STABILIZED UTILIZING A METHOD ACCEPTABLE TO THE CITY ENGINEER. THE GEOGRAPHICAL ENGINEER SHALL RECOMMEND AN APPROPRIATE UPGRADE STABILIZATION IF SULFATES ARE DETERMINED TO BE PRESENT.

WATER AND WASTEWATER NOTES:

1. PIPE MATERIAL FOR WATER MAINS SHALL BE PVC (AIWA C-900, MIN. CLASS 200), OR DUCTILE IRON (AIWA C-100, MIN. CLASS 200). WATER SERVICES (2" OR LESS) SHALL BE POLYETHYLENE TUBING (BLACK, 200 PSI, DR 9).
2. PIPE MATERIAL FOR PRESSURE WASTEWATER MAINS SHALL BE PVC (AIWA C-900, MIN. CLASS 150), SDR-26 HIGH PRESSURE RATED OR DUCTILE IRON (AIWA C-100, MIN. CLASS 200). PIPE MATERIAL FOR GRAVITY WASTEWATER MAINS SHALL BE PVC (ATM D2241 OR D3034, MAX. DR-26), DUCTILE IRON (AIWA C-100, MIN. CLASS 200).
3. UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER, DEPTH OF COVER FOR ALL LINES OUT OF THE PAVEMENT SHALL BE 42" MINIMUM AND DEPTH OF COVER FOR ALL LINES UNDER PAVEMENT SHALL BE A MINIMUM OF 30" BELOW UPGRADE.
4. ALL FIRE HYDRANT LEADS SHALL BE DUCTILE IRON PIPE (AIWA C-100, MIN. CLASS 200).
5. ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED WITH MINIMUM 8-MIL POLYETHYLENE AND SEALED WITH DUCT TAPE OR EQUAL ACCEPTED BY THE CITY ENGINEER.
6. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR AT (512) 218-3241 TO COORDINATE UTILITY TIE-INS AND NOTIFY HIM AT LEAST 48 HOURS PRIOR TO CONNECTING TO EXISTING LINES.
7. ALL MANHOLES SHALL BE CONCRETE WITH CAST IRON RING AND COVER. ALL MANHOLES LOCATED OUTSIDE OF THE PAVEMENT SHALL HAVE BOLTED COVERS. TAPPING OF FIBERGLASS MANHOLES SHALL NOT BE ALLOWED.
8. THE CONTRACTOR MUST OBTAIN A BULK WATER PERMIT OR PURCHASE AND INSTALL A WATER METER FOR ALL WATER USED DURING CONSTRUCTION. A COPY OF THIS PERMIT MUST BE CARRIED AT ALL TIMES BY ALL WHO USE WATER.
9. LINE FLUSHING OR ANY ACTIVITY USING A LARGE QUANTITY OF WATER MUST BE SCHEDULED WITH THE CITY OF ROUND ROCK INSPECTOR, TELEPHONE (512) 218-3241.
10. THE CONTRACTOR, AT HIS EXPENSE, SHALL PERFORM STERILIZATION OF ALL POTABLE WATER LINES CONSTRUCTED AND SHALL PROVIDE ALL EQUIPMENT (INCLUDING TEST GAUGES), SUPPLIES (INCLUDING CONCENTRATED CHLORINE DISINFECTING MATERIAL), AND NECESSARY LABOR REQUIRED FOR THE STERILIZATION PROCEDURE. THE STERILIZATION PROCEDURE SHALL BE MONITORED BY CITY OF ROUND ROCK PERSONNEL. WATER SAMPLES WILL BE COLLECTED BY THE CITY OF ROUND ROCK TO VERIFY EACH TREATED LINE HAS ATTAINED AN INITIAL CHLORINE CONCENTRATION OF 50 PM. WHERE MEANS OF FLUSHING IS NECESSARY, THE CONTRACTOR, AT HIS EXPENSE, SHALL PROVIDE FLUSHING DEVICES AND REMOVE SAID DEVICES PRIOR TO FINAL ACCEPTANCE BY THE CITY OF ROUND ROCK.
11. SAMPLING TAPS SHALL BE BROUGHT UP TO 3 FEET ABOVE GRADE AND SHALL BE EASILY ACCESSIBLE FOR CITY PERSONNEL. AT THE CONTRACTOR'S REQUEST, AND IN HIS PRESENCE, SAMPLES FOR BACTERIOLOGICAL TESTING WILL BE COLLECTED BY THE CITY OF ROUND ROCK NOT LESS THAN 24 HOURS AFTER THE TREATED LINE HAS BEEN FLUSHED OF THE CONCENTRATED CHLORINE SOLUTION AND CHARGED WITH WATER APPROVED BY THE CITY. THE CONTRACTOR SHALL SUPPLY A CHECK OR MONEY ORDER, PAYABLE TO THE CITY OF ROUND ROCK, TO COVER THE FEE CHARGED FOR TESTING EACH WATER SAMPLE. CITY OF ROUND ROCK FEE AMOUNTS MAY BE OBTAINED BY CALLING THE DEVELOPMENT SERVICES DEPARTMENT AT (512) 218-7043.
12. THE CONTRACTOR, AT HIS EXPENSE, SHALL PERFORM QUALITY TESTING FOR ALL WASTEWATER PIPE INSTALLED AND PRESSURE PIPE HYDROSTATIC TESTING OF ALL WATER LINES CONSTRUCTED AND SHALL PROVIDE ALL EQUIPMENT (INCLUDING PUMPS AND GAUGES), SUPPLIES AND LABOR NECESSARY TO PERFORM THE TESTS. QUALITY AND PRESSURE TESTING SHALL BE MONITORED BY CITY OF ROUND ROCK PERSONNEL.
13. THE CONTRACTOR SHALL COORDINATE TESTING WITH THE CITY OF ROUND ROCK INSPECTOR AND PROVIDE NO LESS THAN 24 HOURS NOTICE PRIOR TO PERFORMING STERILIZATION, QUALITY TESTING OR PRESSURE TESTING.
14. THE CONTRACTOR SHALL NOT OPEN OR CLOSE ANY VALVES UNLESS AUTHORIZED BY THE CITY OF ROUND ROCK.
15. ALL VALVE BOXES AND COVERS SHALL BE CAST IRON.
16. ALL WATER SERVICE, WASTEWATER SERVICE AND VALVE LOCATIONS SHALL BE APPROPRIATELY MARKED AS FOLLOWS:

WATER SERVICE	"W" ON TOP OF CURB
WASTEWATER SERVICE	"S" ON TOP OF CURB
CURB VALVE	"V" ON FACE OF CURB

TOOLS FOR MARKING THE CURB SHALL BE PROVIDED BY THE CONTRACTOR. OTHER APPROPRIATE MEANS OF MARKING SERVICE AND VALVE LOCATIONS SHALL BE PROVIDED IN AREAS WITHOUT CURBS. SUCH MEANS OF MARKING SHALL BE AS SPECIFIED BY THE ENGINEER AND ACCEPTED BY THE CITY OF ROUND ROCK.

17. CONTACT THE CITY OF ROUND ROCK DEVELOPMENT SERVICES DEPARTMENT AT (512) 218-7043 FOR ASSISTANCE IN OBTAINING EXISTING WATER AND WASTEWATER LOCATIONS.
18. THE CITY OF ROUND ROCK FIRE DEPARTMENT SHALL BE NOTIFIED 48 HOURS PRIOR TO TESTING OF ANY BUILDING SPRINKLER PIPING IN ORDER THAT THE FIRE DEPARTMENT MAY MONITOR SUCH TESTING.
19. SAND, AS DESCRIBED IN SPECIFICATION ITEM 510 PIPE, SHALL NOT BE USED AS BEDDING FOR WATER AND WASTEWATER LINES. ACCEPTABLE BEDDING MATERIALS ARE PIPE BEDDING STONE, PEA GRAVEL AND IN LIEU OF SAND, A NATURALLY OCCURRING OR MANUFACTURED STONE MATERIAL CONFORMING TO ATM C33 FOR STONE QUALITY AND MEETING THE FOLLOWING GRADATION SPECIFICATION.

SIEVE SIZE	PERCENT RETAINED BY WEIGHT
1/2"	0
3/8"	0-2
#4	40-85
#10	95-100

20. THE CONTRACTOR IS HEREBY NOTIFIED THAT CONNECTING TO, SHUTTING DOWN, OR TERMINATING EXISTING UTILITY LINES, MAY HAVE TO OCCUR AT OFF-PEAK HOURS. SUCH HOURS ARE USUALLY OUTSIDE NORMAL WORKING HOURS AND POSSIBLY BETWEEN 12 A.M. AND 6 A.M.
21. ALL WASTEWATER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (ATC) REGULATIONS, 30 ATC CHAPTER 213 AND 317 OR 217, AS APPLICABLE. WHENEVER ATC AND CITY OF ROUND ROCK SPECIFICATIONS CONFLICT, THE MORE STRINGENT SHALL APPLY.

TRAFFIC MARKING NOTES:

1. ANY METHODS, STREET MARKINGS AND SIGNAGE NECESSARY FOR WARNING MOTORISTS, WARNING PEDESTRIANS OR DIVERTING TRAFFIC DURING CONSTRUCTION SHALL CONFORM TO THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITION.
2. ALL PAVEMENT MARKINGS, MARKERS, PAINT, TRAFFIC BUTTONS, TRAFFIC CONTROLS AND SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES AND, THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITIONS.

EROSION AND SEDIMENTATION CONTROL NOTES:

1. EROSION CONTROL MEASURES, SITE WORK AND RESTORATION WORK SHALL BE IN ACCORDANCE WITH THE CITY OF ROUND ROCK EROSION AND SEDIMENTATION CONTROL ORDINANCE.
2. ALL SLOPES SHALL BE SODDED OR SEEDED WITH APPROVED GRASS, GRASS MIXTURES OR GROUND COVER SUITABLE TO THE AREA AND SEASON IN WHICH THEY ARE APPLIED.
3. SILT FENCES, ROCK BERMS, SEDIMENTATION BASINS AND SIMILARLY RECOGNIZED TECHNIQUES AND MATERIALS SHALL BE EMPLOYED DURING CONSTRUCTION TO PREVENT POINT SOURCE SEDIMENTATION LOADING OF DOWNSTREAM FACILITIES. SUCH INSTALLATION SHALL BE REGULARLY INSPECTED BY THE CITY OF ROUND ROCK FOR EFFECTIVENESS. ADDITIONAL MEASURES MAY BE REQUIRED IF, IN THE OPINION OF THE CITY ENGINEER, THEY ARE WARRANTED.
4. ALL TEMPORARY EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL FINAL INSPECTION AND APPROVAL OF THE PROJECT BY THE ENGINEER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL TEMPORARY EROSION CONTROL STRUCTURES AND TO REMOVE EACH STRUCTURE AS APPROVED BY THE ENGINEER.
5. ALL MUD, DIRT, ROCKS, DEBRIS, ETC., SPILLED, TRACKED OR OTHERWISE DEPOSITED ON EXISTING PAVED STREETS, DRIVES AND AREAS USED BY THE PUBLIC SHALL BE CLEANED UP IMMEDIATELY.

TREE PROTECTION NOTES:

1. ALL TREES NOT LOCATED WITHIN THE LIMITS OF CONSTRUCTION AND OUTSIDE OF DISTURBED AREAS SHALL BE PRESERVED. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL TREES TO BE PRESERVED FROM HIS ACTIVITIES.
2. ALL TREES SHOWN TO BE RETAINED WITHIN THE LIMITS OF CONSTRUCTION ON THE PLANS, SHALL BE PROTECTED DURING CONSTRUCTION WITH FENCING. SEE: TREE PROTECTION TREE WELLS (EC-06), TREE PROTECTION TREE LOCATION (EC-07) AND TREE PROTECTION FENCE-CHAIN LINK (EC-08).
3. TREE PROTECTION FENCES SHALL BE ERECTED ACCORDING TO CITY STANDARDS FOR TREE PROTECTION, INCLUDING TYPES OF FENCING AND SIGNAGE.
4. TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING, OR GRADING) AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE CONSTRUCTION PROJECT.
5. EROSION AND SEDIMENTATION CONTROL BARRIERS SHALL BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILD-UP WITHIN TREE DILLIES.
6. FENCES SHALL COMPLETELY SURROUND THE TREE OR CLUSTERS OF TREES, LOCATED AT THE OUTERMOST LIMITS OF THE TREE BRANCHES (PIPELINE) OR CRITICAL ROOT ZONE (CRUZ), WHICHEVER IS GREATER; AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT IN ORDER TO PREVENT THE FOLLOWING:
   - 6.1. SOIL COMPACTION IN CRUZ AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIAL.
   - 6.2. CRUZ DISTURBANCES DUE TO GRADE CHANGES OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE FORESTRY MANAGER.
   - 6.3. WOUNDS TO EXPOSED ROOTS, TRUNK, OR LIMBS BY MECHANICAL EQUIPMENT
   - 6.4. OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CONCRETE TRUCK CLEANING, AND FIRES.
7. EXCEPTIONS TO INSTALLING TREE FENCES AT THE TREE DILLIES OR CRUZ, WHICHEVER IS GREATER, MAY BE PERMITTED IN THE FOLLOWING CASES:
   - 7.1. WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, OR TREE WELL;
   - 7.2. HERE PERMEABLE PAVING IS TO BE INSTALLED, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA.
   - 7.3. HERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE NO CLOSER THAN 6 FEET TO THE BUILDING.
   - 7.4. HERE THERE ARE SEVERE SPACE CONSTRAINTS DUE TO TRACT SIZE, OR OTHER SPECIAL REQUIREMENTS, CONTACT THE FORESTRY MANAGER TO DISCUSS ALTERNATIVES.
8. HERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE THAT IS CLOSER THAN 5 FEET TO A TREE TRUNK, THE TRUNK SHALL BE PROTECTED BY STRAPPED-ON PLANKING TO A HEIGHT OF 8 FEET (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING PROVIDED.
9. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN AREAS OF UNPROTECTED ROOT ZONES UNDER THE PIPELINE OR CRUZ, WHICHEVER IS GREATER, THOSE AREAS SHOULD BE COVERED WITH 4 INCHES OF ORGANIC MULCH TO MINIMIZE SOIL COMPACTION.
10. ALL GRADING WITHIN CRUZ AREAS SHALL BE DONE BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE. PRIOR TO GRADING, RELOCATE PROTECTIVE FENCING TO 2 FEET BEHIND THE GRADE CHANGE AREA.
11. ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL AND BACKFILLED WITH GOOD QUALITY TOP SOIL WITHIN TWO DAYS. IF EXPOSED ROOT AREAS CANNOT BE BACKFILLED WITHIN 2 DAYS, AN ORGANIC MATERIAL WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION SHALL BE PLACED TO COVER THE ROOTS UNTIL BACKFILL CAN OCCUR.
12. PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE DILLIES, A CLEAN CUT SHALL BE MADE WITH A ROCK SAW OR SIMILAR EQUIPMENT, IN A LOCATION AND TO A DEPTH APPROVED BY THE FORESTRY MANAGER, TO MINIMIZE DAMAGE TO REMAINING ROOTS.
13. TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES WILL BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TREE CROWNS ARE TO BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON LEAVES.
14. WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, A PLASTIC VAPOR BARRIER SHALL BE PLACED BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE CRUZ.
15. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
16. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN FOUR (4) INCHES SHALL BE PERMITTED WITHIN THE PIPELINE OR CRUZ OF TREES, WHICHEVER IS GREATER. NO TOPSOIL IS PERMITTED ON ROOT FLARES OF ANY TREE.
17. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC, AND CONSTRUCTION EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS. ALL PRUNING MUST BE DONE ACCORDING TO CITY STANDARDS AND AS OUTLINED IN LITERATURE PROVIDED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA PRUNING TECHNIQUES).
18. ALL OAK TREE CUTS, INTENTIONAL OR UNINTENTIONAL, SHALL BE SEALED WITH AN APPROVED PRUNING SEALER IMMEDIATELY (WITHIN 10 MINUTES). TREE PAINT MUST BE KEPT ON SITE AT ALL TIMES.
19. THE FORESTRY MANAGER HAS THE AUTHORITY TO REQUIRE ADDITIONAL TREE PROTECTION BEFORE OR DURING CONSTRUCTION.
20. TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED. REFER TO THE CITY OF ROUND ROUND ROCK TREE TECHNICAL MANUAL FOR APPROPRIATE REMOVAL METHODS.
21. PRIOR TO CONSTRUCTION, ALL LOWER TREE LIMBS OVER ROADWAYS MUST BE PRUNED TO A HEIGHT OF 14 FEET USING THE TECHNIQUES DESCRIBED IN THE CITY OF ROUND ROCK TREE TECHNICAL MANUAL.
22. DEVIATIONS FROM THE ABOVE REQUIREMENTS AND NEGLIGENT DAMAGE TO TREES MAY BE CONSIDERED AS ORDINANCE VIOLATIONS.

SEQUENCE OF CONSTRUCTION:

A. INSTALL TREE PROTECTION AS NOTED ON APPROVED SITE PLAN.
B. INSTALL EROSION CONTROLS AS INDICATED ON APPROVED SITE PLAN.
C. SCHEDULE PRE CONSTRUCTION MEETING WITH THE CITY OF ROUND ROCK INSPECTION DEPT., CONTRACTOR, UTILITY CONTRACTOR, AND ENGINEER. (512) 218-6607.
D. EVALUATION OF TEMPORARY EROSION CONTROL INSTALLATION. REVIEW CONSTRUCTION SCHEDULE AND THE EROSION CONTROL PLAN.
E. OBTAIN APPROVAL OF TREE PROTECTION BY PS STAFF. OBTAIN APPROVAL OF EROSION CONTROL MEASURES.
F. OBTAIN APPROVAL FROM CITY OF ROUND ROCK FIRE MARSHAL REGARDING CONSTRUCTION SEQUENCING AND PHASING.
G. BEGIN SITE CLEARING.
H. INSTALL TEMPORARY SEDIMENTATION PONDS AND ROUGH GRADE SITE. INSPECT AND MAINTAIN ALL CONTROLS AS PER GENERAL NOTES.
I. CONSTRUCT SITE UTILITIES.
J. MID-CONSTRUCTION ON-SITE MEETING TO COORDINATE CHANGES IN CONSTRUCTION SCHEDULE AND EVALUATE EFFECTIVENESS OF EROSION CONTROL PLAN (CITY INSPECTOR, PROJECT ENGINEER, GENERAL CONTRACTOR).
K. CONSTRUCT PAVING, PARKING AND BUILDINGS.
L. SCHEDULE AND ATTEND PROJECT CLOSEOUT MEETING WITH CORER PS.
M. COMPLETE CONSTRUCTION AND INSTALL LANDSCAPING.
N. DEVELOP AND SUBMIT FOR CORER PS REVIEW DETENTION / W.Q. POND BMP REPORT AND FILE WITH WILLIAMSON COUNTY
O. PROVIDE AS-BUILTS TO ENGINEER.
P. RENEGOTIATE DISTURBED AREAS OR COMPLETE A DEVELOPERS CONTRACT FOR THE RE-VEGETATION ALONG WITH THE ENGINEERS CONCURRENCE LETTER.
Q. PROJECT ENGINEER INSPECTS JOB AND WRITES CONCURRENCE LETTER TO THE CITY, FINAL INSPECTION IS SCHEDULED UPON RECEIPT OF THE LETTER
R. RECEIVE CITY CLEARANCE FOR OCCUPANCY.
S. REMOVE TEMPORARY EROSION/SEDIMENTATION CONTROLS.

ATC WPAP NOTES

(REV. 7/15/15)
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER POLLUTION ABATEMENT PLAN
GENERAL CONSTRUCTION NOTES

1. A WRITTEN NOTICE OF CONSTRUCTION MUST BE SUBMITTED TO THE ATC REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF ANY REGULATED ACTIVITIES. THIS NOTICE MUST INCLUDE:
   - THE NAME OF THE APPROVED PROJECT;
   - THE ACTIVITY START DATE; AND
   - THE CONTACT INFORMATION OF THE PRIME CONTRACTOR.
2. ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT MUST BE PROVIDED WITH COMPLETE COPIES OF THE APPROVED WATER POLLUTION ABATEMENT PLAN (WPAP) AND THE ATC LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL. DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTORS ARE REQUIRED TO KEEP ON-SITE COPIES OF THE APPROVED PLAN AND APPROVAL LETTER.
3. IF ANY SENSITIVE FEATURE(S) (CAVES, SOLUTION CAVITY, SINK HOLE, ETC.) IS DISCOVERED DURING CONSTRUCTION, ALL REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MUST BE SUSPENDED IMMEDIATELY. THE APPROPRIATE ATC REGIONAL OFFICE MUST BE IMMEDIATELY NOTIFIED OF ANY SENSITIVE FEATURES ENCOUNTERED DURING CONSTRUCTION. CONSTRUCTION ACTIVITIES MAY NOT BE RESUMED UNTIL THE ATC HAS REVIEWED AND APPROVED THE APPROPRIATE PROTECTIVE MEASURES IN ORDER TO PROTECT ANY SENSITIVE FEATURE AND THE EDWARDS AQUIFER FROM POTENTIALLY ADVERSE IMPACTS TO WATER QUALITY.
4. NO TEMPORARY OR PERMANENT HAZARDOUS SUBSTANCE STORAGE TANK SHALL BE INSTALLED WITHIN 150 FEET OF A WATER SUPPLY SOURCE, DISTRIBUTION SYSTEM, WELL, OR SENSITIVE FEATURE.
5. PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED PLANS AND MANUFACTURERS SPECIFICATIONS. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS. THESE CONTROLS MUST REMAIN IN PLACE UNTIL THE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
6. ANY SEDIMENT THAT ESCAPES THE CONSTRUCTION SITE MUST BE COLLECTED AND PROPERLY DISPOSED OF BEFORE THE NEXT RAIN EVENT TO ENSURE IT IS NOT WASHED INTO SURFACE STREAMS, SENSITIVE FEATURES, ETC.
7. SEDIMENT MUST BE REMOVED FROM THE SEDIMENT TRAPS OR SEDIMENTATION BASINS NOT LATER THAN TCEQ-0592 WHEN IT OCCUPIES 50% OF THE BASIN'S DESIGN CAPACITY.
8. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BEING DISCHARGED OFFSITE.
9. ALL SPOILS (EXCAVATED MATERIAL) GENERATED FROM THE PROJECT SITE MUST BE STORED ON-SITE WITH PROPER E&S CONTROLS. FOR STORAGE OR DISPOSAL OF SPOILS AT ANOTHER SITE ON THE EDWARDS AQUIFER RECHARGE ZONE, THE OWNER OF THE SITE MUST RECEIVE APPROVAL OF A WATER POLLUTION ABATEMENT PLAN FOR THE PLACEMENT OF FILL MATERIAL OR MASS GRADING PRIOR TO THE PLACEMENT OF SPOILS AT THE OTHER SITE.
10. IF PORTIONS OF THE SITE WILL HAVE A TEMPORARY OR PERMANENT CEASE IN CONSTRUCTION ACTIVITY LASTING LONGER THAN 14 DAYS, SOIL STABILIZATION IN THOSE AREAS SHALL BE INITIATED AS SOON AS POSSIBLE PRIOR TO THE 14TH DAY OF INACTIVITY. IF ACTIVITY WILL RESUME PRIOR TO THE 21ST DAY, STABILIZATION MEASURES ARE NOT REQUIRED. IF DROUGHT CONDITIONS OR INCLEMENT WEATHER PREVENT ACTION BY THE 14TH DAY, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE.
11. THE FOLLOWING RECORDS SHALL BE MAINTAINED AND MADE AVAILABLE TO THE ATC UPON REQUEST:
   - THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR;
   - THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; AND
   - THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.
12. THE HOLDER OF ANY APPROVED EDWARD AQUIFER PROTECTION PLAN MUST NOTIFY THE APPROPRIATE REGIONAL OFFICE IN WRITING AND OBTAIN APPROVAL FROM THE EXECUTIVE DIRECTOR PRIOR TO INITIATING ANY OF THE FOLLOWING:
   - A. ANY PHYSICAL OR OPERATIONAL MODIFICATION OF ANY WATER POLLUTION ABATEMENT STRUCTURE(S), INCLUDING BUT NOT LIMITED TO PONDS, DAMS, BERMS, SEWAGE TREATMENT PLANTS, AND DIVERSIONARY STRUCTURES;
   - B. ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS ORIGINALLY APPROVED OR A CHANGE WHICH WOULD SIGNIFICANTLY IMPACT THE ABILITY OF THE PLAN TO PREVENT POLLUTION OF THE EDWARDS AQUIFER;
   - C. ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED AS UNDEVELOPED IN THE ORIGINAL WATER POLLUTION ABATEMENT PLAN.

CITY OF ROUND ROCK PUBLIC IMPROVEMENT SUMMARY TABLES

PIPE SIZE	WASTEWATER		
	TYPE	LENGTH (LF)	VOL (GAL)
8" SDR 26	SDR-26 PVC	290.5000	758.5000

WASTEWATER MANHOLES	
SIZE	QTY
4'	2
5'	
6'	

PIPE SIZE	WATER		
	TYPE	LENGTH (LF)	VOL (GAL)
6"	D.I	20	29.3749
3"	BLACK POLY.	28	10.2812
8	PVC	180.5	471.3039
8"	DI	21.5	56.1387

FIRE HYDRANTS		
TOTAL		BRAND
2	EA.	Clow

GATE VALVES		
SIZE	TOTAL	BRAND
2"	1	Clow
6"	2	Clow
8"	2	Clow

WATER METER	
SIZE	QTY
2'	1

CONTRACTOR FIELD SET
This plan set shall remain on the site or subdivision premises for the life of the project and shall be utilized for any and all improvements contained herein.

LEGEND

- IRON ROD FOUND/SET
- CONCRETE MONUMENT FOUND/SET
- NAIL FOUND/SET
- PIPE FOUND
- STORMWATER MANHOLE (DRAWN TO SCALE)
- JUNCTION BOX (DRAWN TO SCALE)
- GRATE INLET (DRAWN TO SCALE)
- WASTEWATER MANHOLE (DRAWN TO SCALE)
- EX. CO — WASTEWATER CLEANOUT
- GAS TEST STATION
- GAS METER
- ELECTRIC METER
- LIGHT POLE
- SIGNAL LIGHT POLE
- UTILITY POLE
- TELEPHONE MANHOLE
- EX. FH — FIRE HYDRANT
- EX. WV — GATE VALVE
- EX. ICV — IRRIGATION CONTROL VALVE
- WATER METER
- 100 / 99 — EXISTING CONTOURS
- 100 — PROPOSED CONTOUR
- PROPOSED CURB AND GUTTER
- PROPOSED ASPHALT
- X" GAS LINE — PROPOSED X" DIA. GAS LINE
- X" STORM SEWER LINE — PROPOSED X" DIA. STORM SEWER LINE
- X" WASTEWATER LINE — PROPOSED X" DIA. WASTEWATER LINE
- X" WATER LINE — PROPOSED X" DIA. WATER LINE
- EXISTING CHAIN LINK FENCE
- EXISTING WIRE FENCE
- EXISTING WOOD FENCE
- SB — SETBACK LINE
- EASEMENT LINE
- EXISTING ASPHALT
- OHE — EXISTING OVERHEAD ELECTRIC LINE
- UGE — EXISTING UNDERGROUND ELECTRIC LINE
- OHT — EXISTING OVERHEAD TELEPHONE LINE
- UGT — EXISTING UNDERGROUND TELEPHONE LINE
- W — EXISTING WATER LINE (SIZE VARIES)
- WW — EXISTING WASTEWATER LINE (SIZE VARIES)
- FM — EXISTING FORCE MAIN (SIZE VARIES)
- FOC — EXISTING FIBER OPTIC LINE
- GAS — EXISTING GAS LINE (SIZE VARIES)
- BENCHMARK LOCATION
- EXISTING TREE TO REMAIN (SIZE VARIES)
- EXISTING TREE TO BE REMOVED (SIZE VARIES)

HAGOOD ENGINEERING ASSOCIATES
900 E. Main Street
Round Rock, TX 78664
Phone (512) 244-1546
Fax (512) 244-1010
www.heaeng.com
TBPE Registration No. F-12709

STATE OF TEXAS
TERRY R. HAGOOD
52960
REGISTERED PROFESSIONAL ENGINEER

JOB NO.18-021 © 2019 HEA, Inc.
DATE SIGNED: 10/04/2019
ISSUED FOR: AGENCY REVIEW

SITE DEVELOPMENT IMPROVEMENTS
CHASCO YMCA ADDITION
1801 NORTH INTERSTATE HIGHWAY 35
ROUND ROCK, TX 78664

NO.	DATE	DESCRIPTION
REVISIONS		

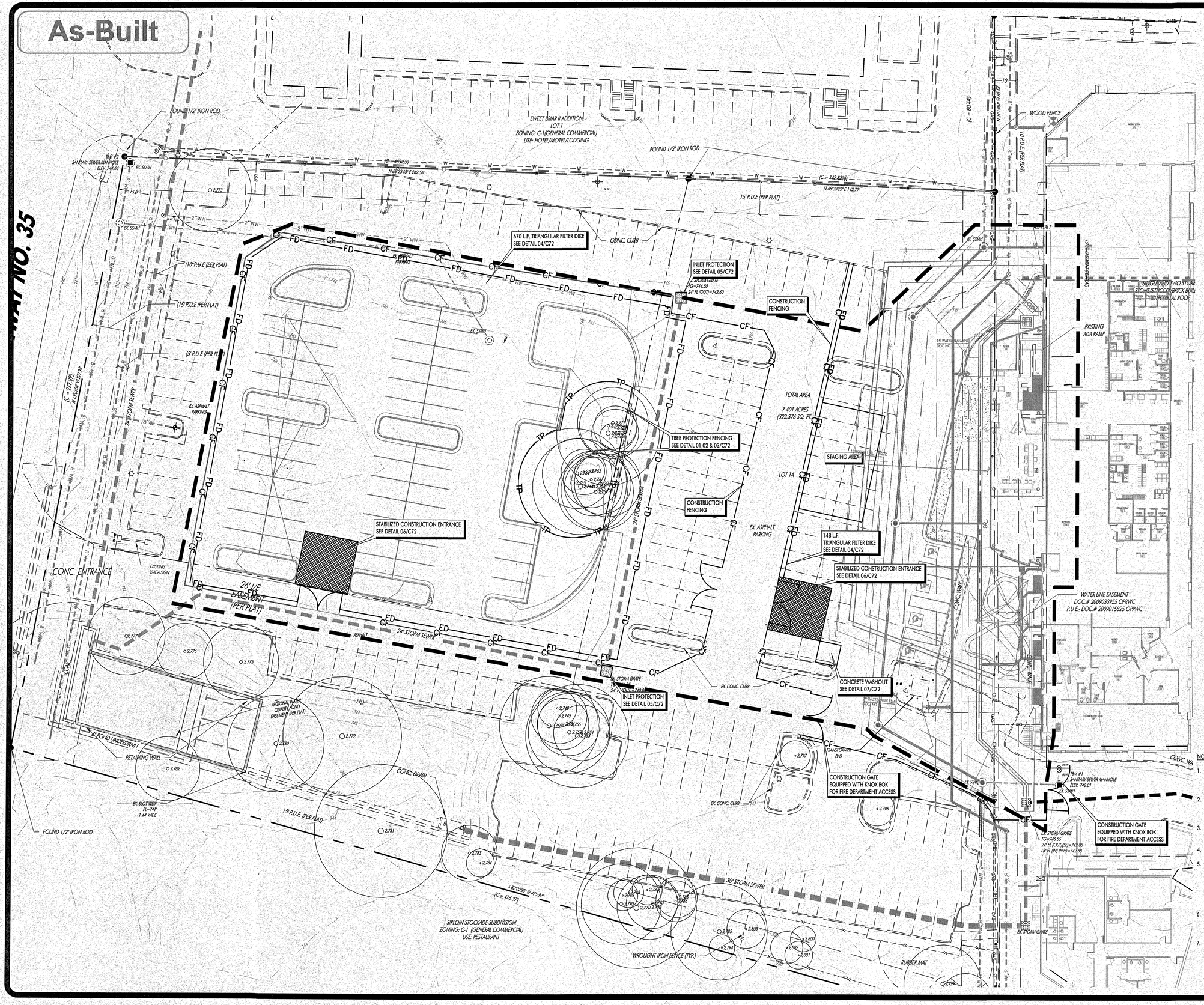
HEA PROJECT NO.18-021
ISSUED DATE: 10/04/2019

GENERAL NOTES

SHEET NO.
C00
07
SITE PLAN NO.
SDP1904-0001

Oct 07,2019-8:51am Z:\HEA\HEA Projects\Projects 18-000\18-021 Chasco YMCA\CAD Files\Civil\SD\18-021C00.dwg

As-Built



NOTES:

1. CONTRACTOR TO ENSURE AT ALL TIMES, CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THROUGH A STABILIZED CONSTRUCTION ENTRANCE.
2. ALL DIRT, MUD, ROCKS, DEBRIS, ETC. SPILLED, TRACKED, OR OTHERWISE DEPOSITED ON ANY EXISTING PAVED STREETS, DRIVES AND AREAS USED BY THE PUBLIC SHALL BE CLEANED UP IMMEDIATELY.
3. CONTRACTOR TO IMPLEMENT TRAFFIC CONTROL MEASURES AS REQUIRED WHEN NECESSARY.
4. EROSION CONTROLS SHALL BE IN PLACE PRIOR TO ANY DEMOLITION.
5. THE CONTRACTOR SHALL CONSTRUCT AN ALL WEATHER SURFACE ACCESS DRIVE PRIOR TO GOING VERTICAL WITH THE BUILDING STRUCTURE. DIRT WORK AND FOUNDATION WORK MAY BE DONE PRIOR TO THE CONSTRUCTION OF THIS REQUIREMENT. ALL WEATHER SURFACE IS DEFINED AS ASPHALT, CONCRETE OR CHIP SEAL OVER AN ENGINEERED COMPACTED BASE.
6. ALL DISTURBED AREAS SHALL BE REVEGETATED AND ESTABLISHED PER CITY OF ROUND ROCK AND TCEQ REQUIREMENTS PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY.
7. DURING CONSTRUCTION, ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE SITE INSPECTOR.

CONTRACTOR FIELD SET
This plan set shall remain on the site or subdivision premises for the life of the project and shall be utilized for any and all improvements contained herein.

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TBPE Registration No. F-12709

STATE OF TEXAS
TERRY R. HAGOOD
52960
REGISTERED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY TERRY R. HAGOOD, P.E. 52960

JOB NO.18-021 © 2019 HEA, Inc.
DATE SIGNED: 10/04/2019
ISSUED FOR: AGENCY REVIEW

SITE DEVELOPMENT IMPROVEMENTS
CHASCO YMCA ADDITION
1801 NORTH INTERSTATE HIGHWAY 35
ROUND ROCK, TX 78664

NO.	DATE	DESCRIPTION
		REVISIONS

HEA PROJECT NO.18-021
ISSUED DATE: 10/04/2019

EROSION AND SEDIMENTATION CONTROL PLAN

SHEET NO.
C10
08
SITE PLAN NO.
SDP1904-0001

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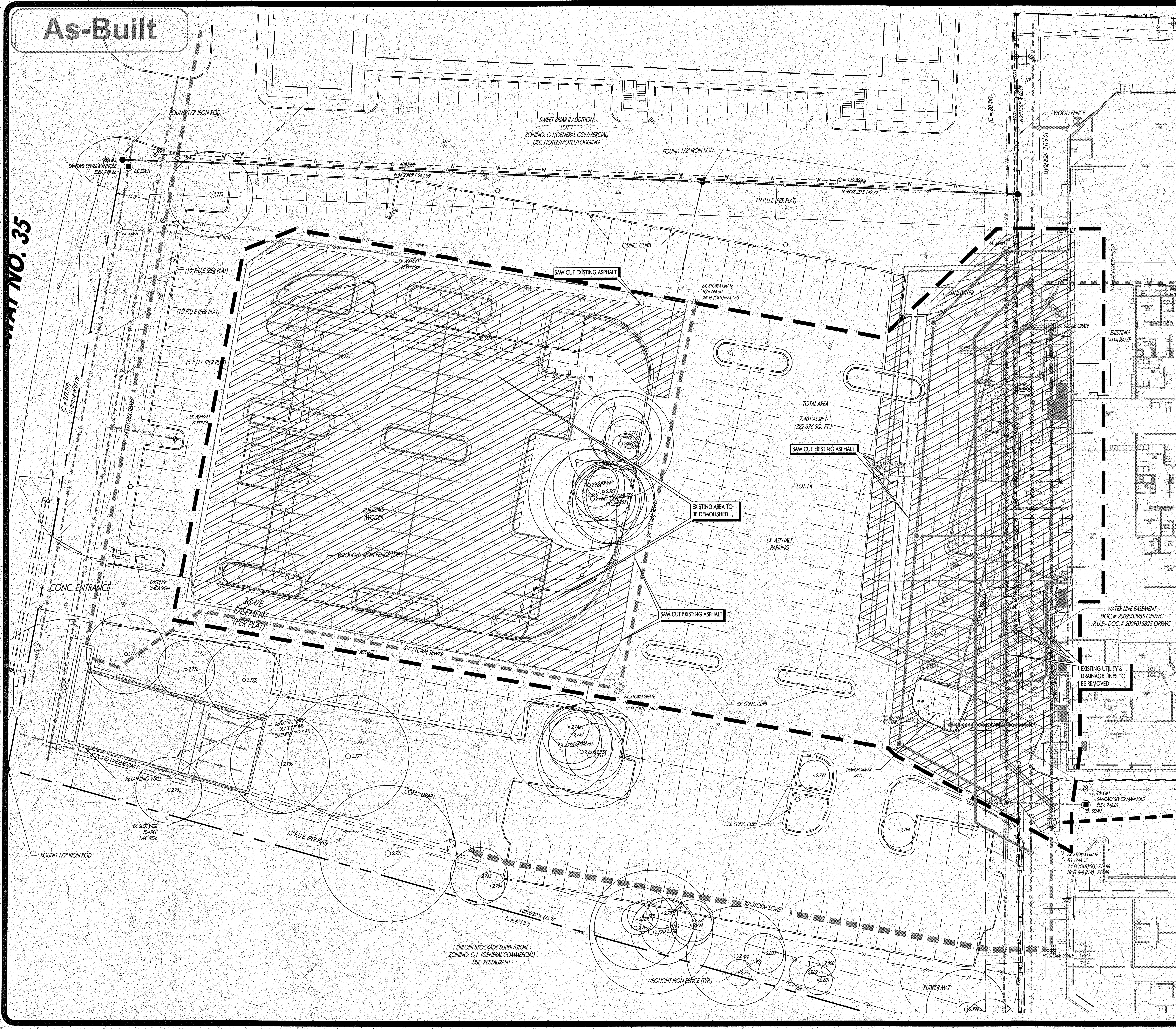

LEGEND

●	○	IRON ROD FOUND/SET
■	□	CONCRETE MONUMENT FOUND/SET
▲	△	NAIL FOUND/SET
⊙		PIPE FOUND
		STORMWATER MANHOLE (DRAWN TO SCALE)
		JUNCTION BOX (DRAWN TO SCALE)
		GRATE INLET (DRAWN TO SCALE)
		WASTEWATER MANHOLE (DRAWN TO SCALE)
EX CO		WASTEWATER CLEANOUT
		GAS TEST STATION
G		GAS METER
E		ELECTRIC METER
		LIGHT POLE
		SIGNAL LIGHT POLE
		UTILITY POLE
T		TELEPHONE MANHOLE
		FIRE HYDRANT
EX WV	⊗	GATE VALVE
EX ICV		IRRIGATION CONTROL VALVE
		WATER METER
100 / 99		EXISTING CONTOURS
100		PROPOSED CONTOUR
		PROPOSED CURB AND GUTTER
X" GAS LINE		PROPOSED X" DIA. GAS LINE
X" STORM SEWER LINE		PROPOSED X" DIA. STORM SEWER LINE
X" WASTEWATER LINE		PROPOSED X" DIA. WASTEWATER LINE
X" WATER LINE		PROPOSED X" DIA. WATER LINE
		EXISTING CHAIN LINK FENCE
		EXISTING WIRE FENCE
		EXISTING WOOD FENCE
SB		SETBACK LINE
		EASEMENT LINE
		EXISTING OVERHEAD ELECTRIC LINE
		EXISTING UNDERGROUND ELECTRIC LINE
		EXISTING OVERHEAD TELEPHONE LINE
		EXISTING UNDERGROUND TELEPHONE LINE
W		EXISTING WATER LINE (SIZE VARIES)
WW		EXISTING WASTEWATER LINE (SIZE VARIES)
FM		EXISTING FORCE MAIN (SIZE VARIES)
		EXISTING FIBER OPTIC LINE
		EXISTING GAS LINE (SIZE VARIES)
		BENCHMARK LOCATION
		EXISTING TREE TO REMAIN (SIZE VARIES)
		EXISTING TREE TO BE REMOVED (SIZE VARIES)
XXXXXXX		UTILITY LINE TO BE REMOVED
		LIMITS OF DEMOLITION

CONTRACTOR FIELD SET
This plan set shall remain on the site or subdivision premises for the life of the project and shall be utilized for any and all improvements contained herein.

NOTES:

1. CONTRACTOR TO ENSURE AT ALL TIMES, CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THROUGH A STABILIZED CONSTRUCTION ENTRANCE.
2. ALL DIRT, MUD, ROCKS, DEBRIS, ETC. SPILLED, TRACKED, OR OTHERWISE DEPOSITED ON ANY EXISTING PAVED STREETS, DRIVES AND AREAS USED BY THE PUBLIC SHALL BE CLEANED UP IMMEDIATELY.
3. CONTRACTOR TO IMPLEMENT TRAFFIC CONTROL MEASURES AS REQUIRED WHEN NECESSARY.
4. EROSION CONTROLS SHALL BE IN PLACE PRIOR TO ANY DEMOLITION.
5. THE CONTRACTOR SHALL CONSTRUCT AN ALL WEATHER SURFACE ACCESS DRIVE PRIOR TO GOING VERTICAL WITH THE BUILDING STRUCTURE. DIRT WORK AND FOUNDATION WORK MAY BE DONE PRIOR TO THE CONSTRUCTION OF THIS REQUIREMENT. ALL WEATHER SURFACE IS DEFINED AS ASPHALT, CONCRETE OR CHIP SEAL OVER AN ENGINEERED COMPACTED BASE.
6. ALL DISTURBED AREAS SHALL BE REVEGETATED AND ESTABLISHED PER CITY OF ROUND ROCK AND TCEQ REQUIREMENTS PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY.
7. DURING CONSTRUCTION, ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE SITE INSPECTOR.
8. EXISTING DUMPSTER PAD IS TO BE DEMOLISHED AND DEVELOPMENT IS TO UTILIZE EXISTING DUMPSTER ENCLOSURE LOCATED IN THE NORTH EAST CORNER OF THE LOT II OF THE SWEETBRIAR ADDITION. REFER TO SHEET SP1 FOR LOCATION

HAGOOD
ENGINEERING ASSOCIATES
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Fax (512) 244-1010
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TBPE Registration No. F-12709

STATE OF TEXAS
TERRY R. HAGOOD
52960
REGISTERED PROFESSIONAL ENGINEER

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THIS DRAWING MAY NOT BE MODIFIED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ENGINEER, AND THEN ONLY IN ACCORDANCE WITH THE RULES OF THE TEXAS ENGINEERING PRACTICE ACT.

DATE SIGNED: 10/04/2019
ISSUED FOR: AGENCY REVIEW

SITE DEVELOPMENT IMPROVEMENTS
CHASCO YMCA ADDITION
1801 NORTH INTERSTATE HIGHWAY 35
ROUND ROCK, TX 78664

REVISIONS

NO.	DATE	DESCRIPTION

HEA PROJECT NO.18-021
ISSUED DATE: 10/04/2019

DEMOLITION PLAN

SHEET NO.
C11
09
SITE PLAN NO.
SDP1904-0001

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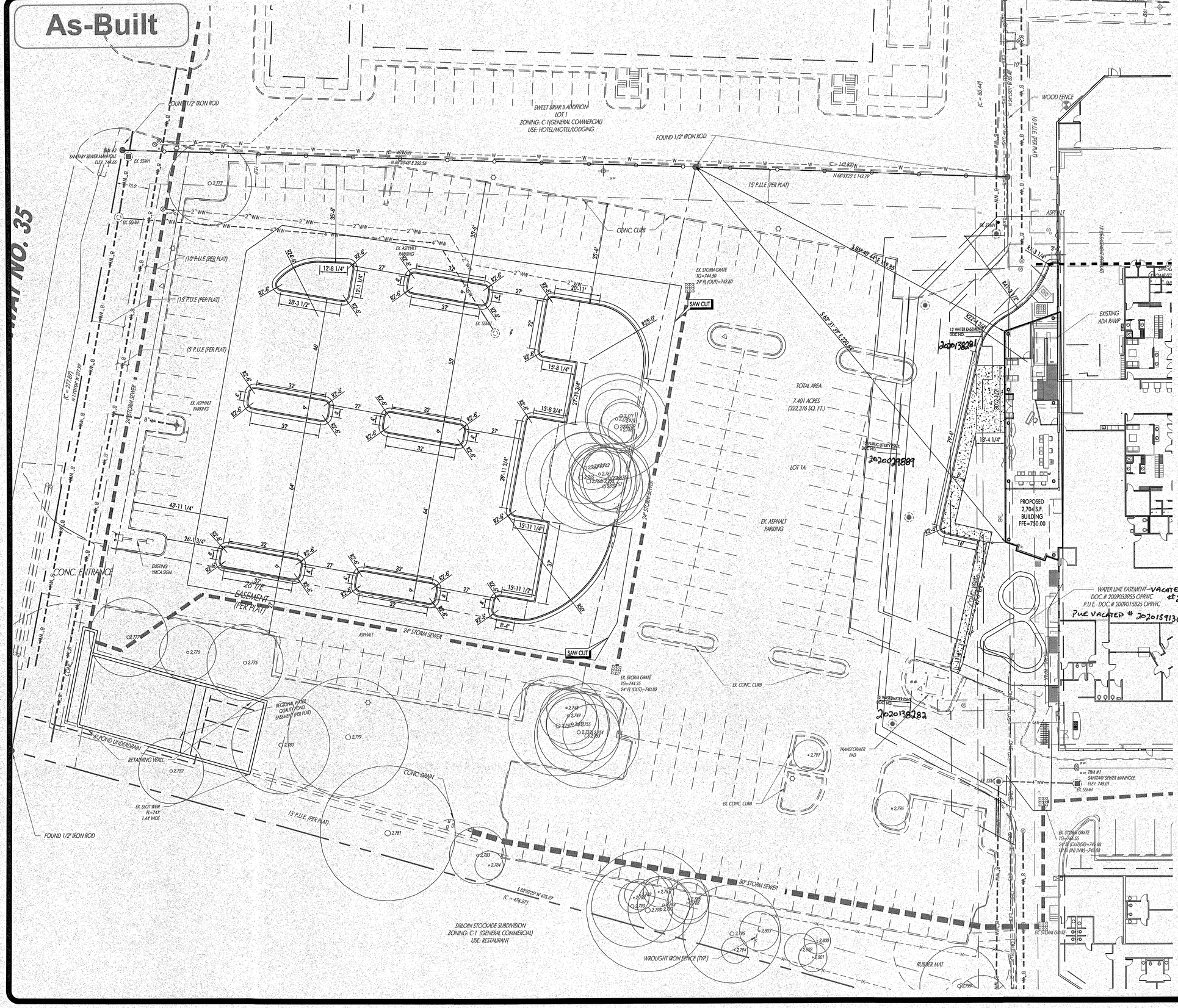

0 20 40

SCALE: 1" = 20'

LEGEND

- IRON ROD FOUND/SET
- CONCRETE MONUMENT FOUND/SET
- NAIL FOUND/SET
- PIPE FOUND
- STORMWATER MANHOLE (DRAWN TO SCALE)
- JUNCTION BOX (DRAWN TO SCALE)
- GRATE INLET (DRAWN TO SCALE)
- WASTEWATER MANHOLE (DRAWN TO SCALE)
- WASTEWATER CLEANOUT
- GAS TEST STATION
- GAS METER
- ELECTRIC METER
- LIGHT POLE
- SIGNAL LIGHT POLE
- UTILITY POLE
- TELEPHONE MANHOLE
- FIRE HYDRANT
- GATE VALVE
- IRRIGATION CONTROL VALVE
- WATER METER
- EXISTING CONTOURS
- PROPOSED CONTOUR
- PROPOSED CURB AND GUTTER
- X" GAS LINE — PROPOSED X" DIA. GAS LINE
- X" STORM SEWER LINE — PROPOSED X" DIA. STORM SEWER LINE
- X" WASTEWATER LINE — PROPOSED X" DIA. WASTEWATER LINE
- X" WATER LINE — PROPOSED X" DIA. WATER LINE
- EXISTING CHAIN LINK FENCE
- EXISTING WIRE FENCE
- EXISTING WOOD FENCE
- SB — SETBACK LINE
- EASEMENT LINE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING OVERHEAD TELEPHONE LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- W — EXISTING WATER LINE (SIZE VARIES)
- WW — EXISTING WASTEWATER LINE (SIZE VARIES)
- FM — EXISTING FORCE MAIN (SIZE VARIES)
- EXISTING FIBER OPTIC LINE
- EXISTING GAS LINE (SIZE VARIES)
- BENCHMARK LOCATION
- EXISTING TREE TO REMAIN (SIZE VARIES)
- EXISTING TREE TO BE REMOVED (SIZE VARIES)

CONTRACTOR FIELD SET
This plan set shall remain on the site or subdivision premises for the life of the project and shall be utilized for any and all improvements contained herein.

NOTE:
1. ALL DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.

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SITE DEVELOPMENT IMPROVEMENTS
CHASCO YMCA ADDITION
1801 NORTH INTERSTATE HIGHWAY 35
ROUND ROCK, TX 78664

REVISIONS			
NO.	DATE	DESCRIPTION	

HEA PROJECT NO.18-021
ISSUED DATE: 10/04/2019

DIMENSION CONTROL PLAN

SHEET NO.
C20
10
SITE PLAN NO.
SDP1904-0001

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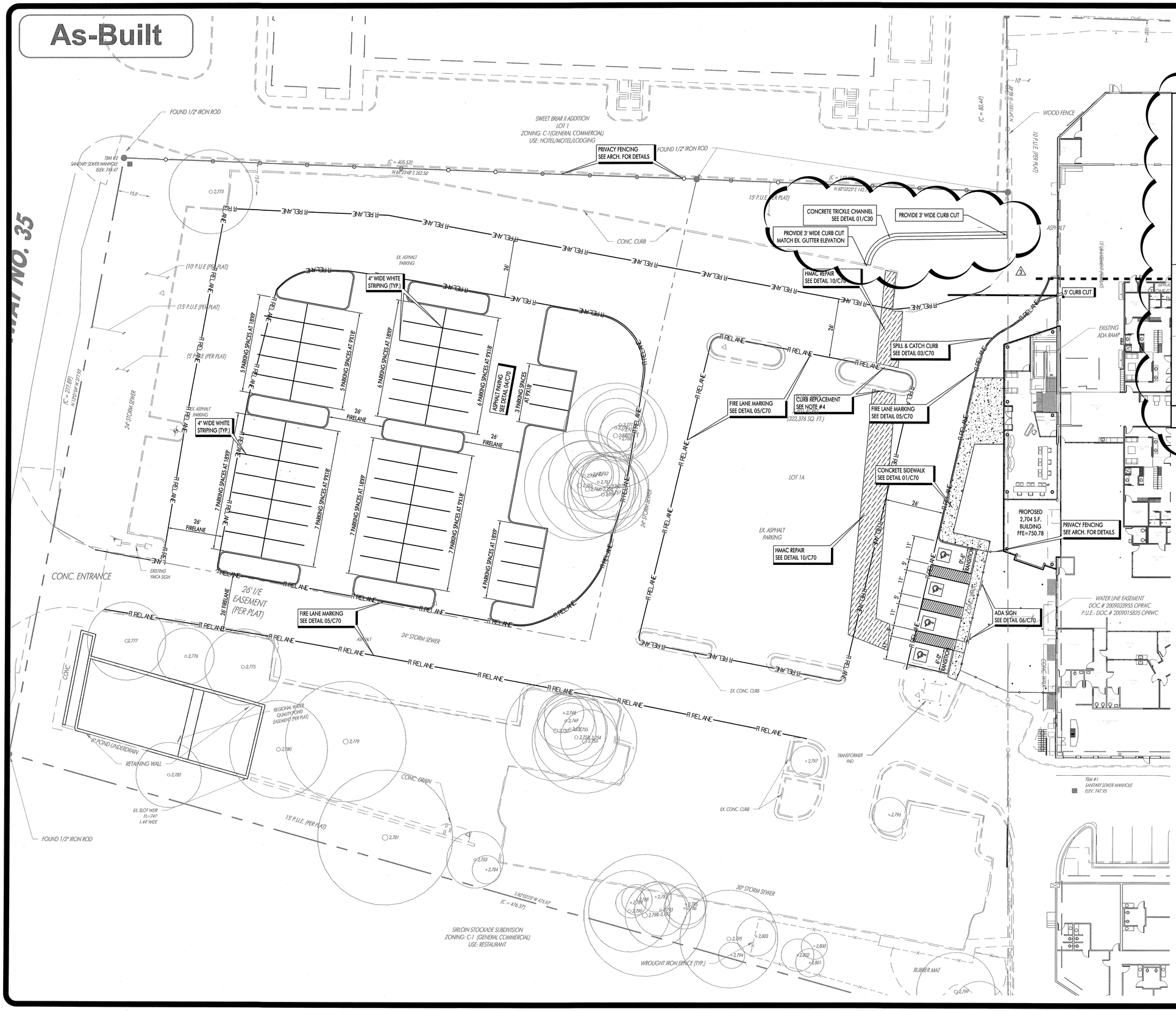

01 CONCRETE TRICKLE CHANNEL NTS

NOTES:

1. FIRELANE STRIPING TO BE 6" WIDE RED PAINT WITH "FIRE LANE-NO PARKING" IN 4" TALL WHITE LETTERS. WORDING MAY NOT BE SPACED MORE THAN 30 FEET APART. STRIPING TO BE PAINTED ON FACE OF CURB WHEN PRESENT AND PAINTED FLAT ON PARKING SURFACE WHEN IT IS NOT.
2. ALL DIMENSIONS ARE TO THE FACE OF CURB, OR CENTER OF STRIPING (WHERE APPLICABLE), UNLESS OTHERWISE NOTED.
3. FIRELANES SHALL BE SURFACED SO AS TO PROVIDE ASPHALT / REINFORCED CONCRETE BEFORE ANY COMBUSTIBLE MATERIALS ARE ALLOWED ON SITE.
4. ALL EXISTING CURB AND GUTTER THAT WILL BE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BACK TO EXISTING CONDITIONS PRIOR TO PROJECT CLOSEOUT.

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DATE ISSUED: 1/15/2020
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SITE DEVELOPMENT IMPROVEMENTS
CHASCO YMCA ADDITION
1801 NORTH INTERSTATE HIGHWAY 35
ROUND ROCK, TX 78664

REVISIONS

NO.	DATE	DESCRIPTION
1	08/14/2020	ADDED TRICKLE CHANNEL AND CURB CUTS

HEA PROJECT NO. 18-021
ISSUED DATE: 10/31/2019

PAVING AND STRIPING PLAN

SHEET NO.
C30
11
SITE PLAN NO.
SDP1904-0001

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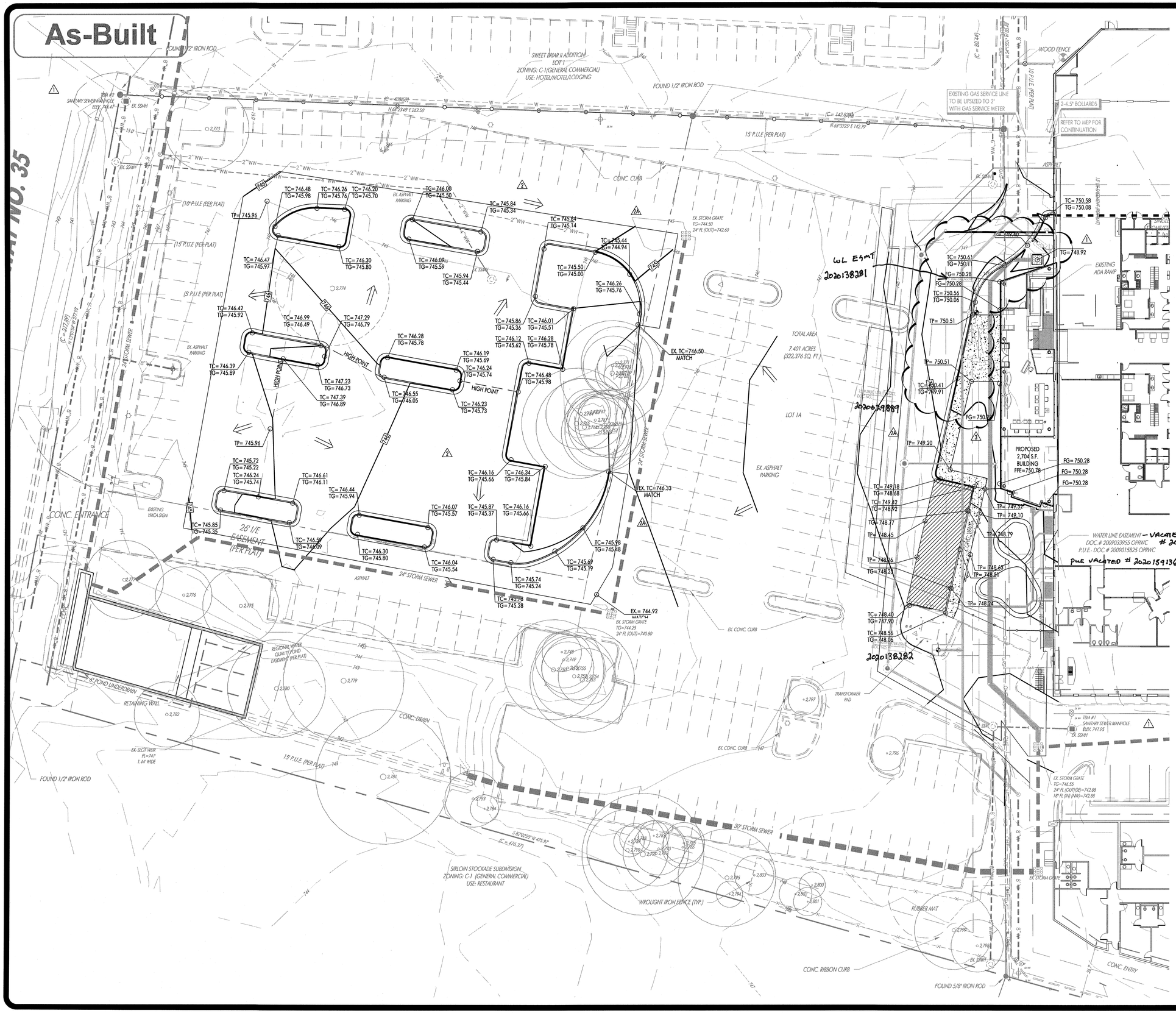

0 20 40

SCALE: 1" = 20'

LEGEND

● ○	IRON ROD FOUND/SET
■ □	CONCRETE MONUMENT FOUND/SET
▲ △	NAIL FOUND/SET
⊙	PIPE FOUND
Ⓢ Ⓢ	STORMWATER MANHOLE (DRAWN TO SCALE)
▣ ▣	JUNCTION BOX (DRAWN TO SCALE)
▦ ▦	GRATE INLET (DRAWN TO SCALE)
◎ ◉	WASTEWATER MANHOLE (DRAWN TO SCALE)
ᵉˣ CO ◦	WASTEWATER CLEANOUT
◉	GAS TEST STATION
▣	GAS METER
▣	ELECTRIC METER
○ ▭	LIGHT POLE
▭	SIGNAL LIGHT POLE
◩	UTILITY POLE
Ⓣ	TELEPHONE MANHOLE
ᵉˣ FH	FIRE HYDRANT
ᵉˣ WV	GATE VALVE
ᵉˣ ICV	IRRIGATION CONTROL VALVE
▯ ▮	WATER METER
100 / 99	EXISTING CONTOURS
100	PROPOSED CONTOUR
	PROPOSED CURB AND GUTTER
	PROPOSED ASPHALT
X" GAS LINE	PROPOSED X" DIA. GAS LINE
X" STORM SEWER LINE	PROPOSED X" DIA. STORM SEWER LINE
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	EXISTING CHAIN LINK FENCE
	EXISTING WIRE FENCE
	EXISTING WOOD FENCE
SB	SETBACK LINE
	EASEMENT LINE
	EXISTING ASPHALT
OHE	EXISTING OVERHEAD ELECTRIC LINE
UGE	EXISTING UNDERGROUND ELECTRIC LINE
OHT	EXISTING OVERHEAD TELEPHONE LINE
UGT	EXISTING UNDERGROUND TELEPHONE LINE
W	EXISTING WATER LINE (SIZE VARIES)
WW	EXISTING WASTEWATER LINE (SIZE VARIES)
FM	EXISTING FORCE MAIN (SIZE VARIES)
FOC	EXISTING FIBER OPTIC LINE
GAS	EXISTING GAS LINE (SIZE VARIES)
	BENCHMARK LOCATION
	EXISTING TREE TO REMAIN (SIZE VARIES)
	EXISTING TREE TO BE REMOVED (SIZE VARIES)

NOTES:
1. SLOPES OF ACCESSIBLE ROUTES MAY NOT EXCEED 1:20 UNLESS DESIGNED AS A RAMP.
2. THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION IS 1:12. THE MAXIMUM RISE FOR ANY RAMP RUN IS 30". RAMPS SHALL BE PROVIDED WITH HANDRAILS AND GROUND SURFACE EDGE PROTECTION EACH SIDE AND ENTIRE LENGTH OF RAMP PER TDLR ADA REQUIREMENTS.
3. ACCESSIBLE ROUTES MUST HAVE A CROSS-SLOPE NO GREATER THAN 1:50.
4. GROUND SURFACE ALONG ACCESSIBLE ROUTES MUST BE STABLE, FIRM AND SLIP RESISTANT.
5. SPOT ELEVATION LEGEND:
   BW = BOTTOM OF WALL
   EX. = EXISTING ELEVATION
   FG = FINISHED GRADE
   FL = FLOW LINE
   TC = TOP OF CURB
   TF = TOP OF FOOTING
   TG = GUTTER
   TI = TOP OF INLET
   TP = TOP OF PAVEMENT (CONCRETE/ASPHALT/SIDEWALK)
   TW = TOP OF WALL

NO SLOPES GREATER THAN 2% ANY DIRECTION IN THIS AREA.

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SITE DEVELOPMENT IMPROVEMENTS CHASCO YMCA ADDITION 1801 NORTH INTERSTATE HIGHWAY 35 ROUND ROCK, TX 78664

REVISIONS

NO.	DATE	DESCRIPTION
1	10-31-2019	ADJUSTED GRADES BASED OFF NEW BENCHMARK ELEV
2	12-04-2019	ADJUSTED GRADES PER ESI #1
2A	12-17-2019	ADDED ADDITIONAL SPOTS - REVISED ESI#1
3	05-04-2020	INTERNAL CHANGES TO ADDITION AND LOWERING OF INLET RIM ELEV.

HEA PROJECT NO.18-021
ISSUED DATE: 10/31/2019

GRADING PLAN

SHEET NO.
C40
12
SITE PLAN NO.
SDP1904-0001

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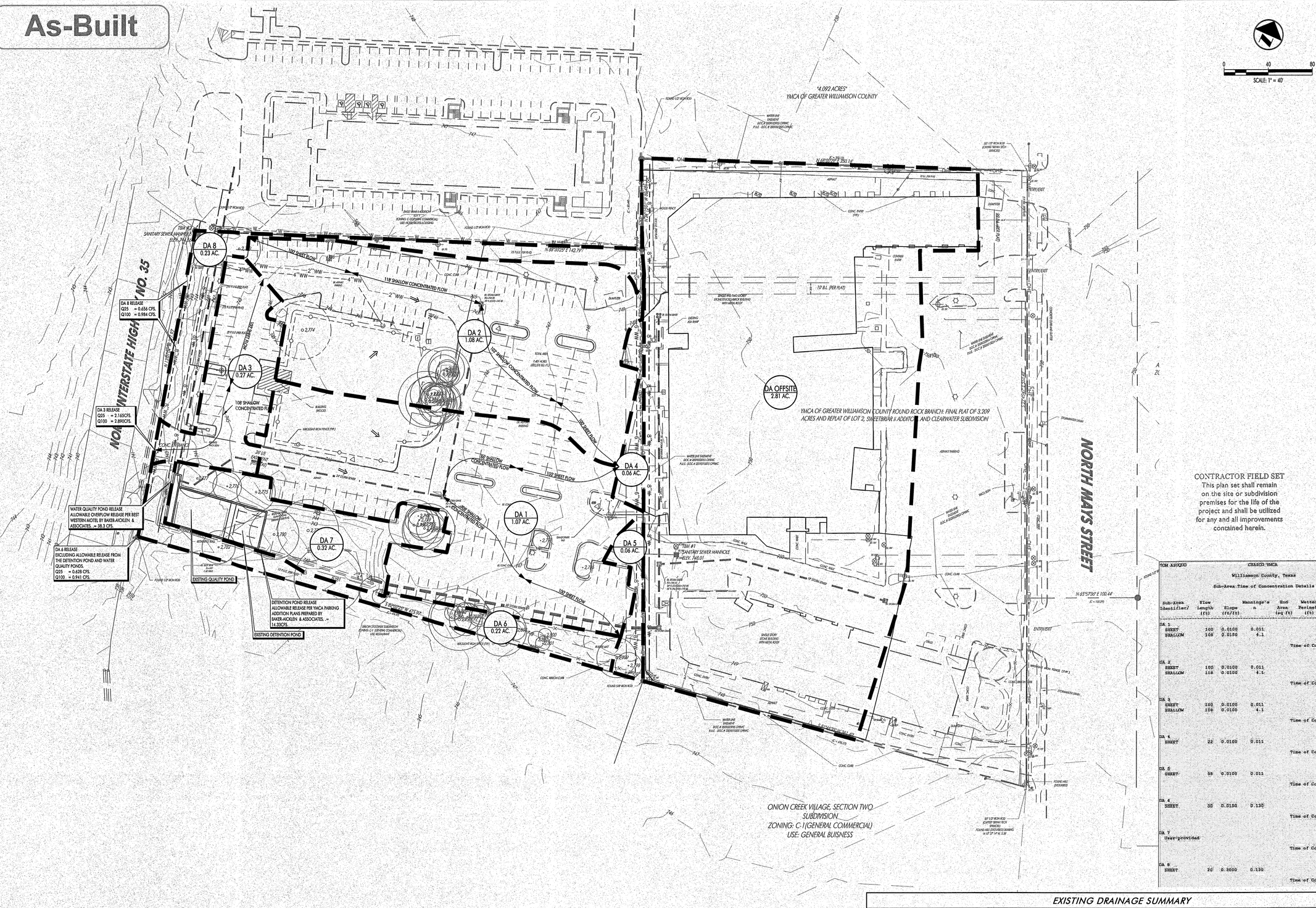

CONTRACTOR FIELD SET
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FHM ASSOCIATES — CHASCO YMCA
Williamson County, Texas
Sub-Area Time of Concentration Details

Sub-Area Identifier/	Flow	Length (ft)	Slope (ft/ft)	Mannings's n	End Area (sq ft)	Wetted Perimeter (ft)	Velocity (ft/sec)	Travel Time (hr)
DA 1								
	SHEET	100	0.0100	0.011				0.024
	SHALLOW	108	0.0150	4.1				0.012
							Time of Concentration	0.1
DA 2								
	SHEET	100	0.0100	0.011				0.024
	SHALLOW	118	0.0100	4.1				0.016
							Time of Concentration	0.1
DA 3								
	SHEET	100	0.0100	0.011				0.024
	SHALLOW	108	0.0100	4.1				0.019
							Time of Concentration	0.1
DA 4								
	SHEET	22	0.0100	0.011				0.007
							Time of Concentration	0.1
DA 5								
	SHEET	89	0.0100	0.011				0.010
							Time of Concentration	0.1
DA 6								
	SHEET	50	0.0150	0.130				0.035
							Time of Concentration	0.1
DA 7								
	User-provided							0.100
							Time of Concentration	0.100
DA 8								
	SHEET	20	0.3000	0.130				0.012
							Time of Concentration	0.1

EXISTING DRAINAGE SUMMARY

Area No.	Acres	%IC	Tc	C2	I2	Q2	C10	I10	Q10	C25	I25	Q25	C100	I100	Q100	Remarks
DA 1	1.070	82	6	0.6364	6.22	4.236	0.7092	8.33	6.318	0.7574	9.51	7.704	0.8438	11.50	10.381	piped flow
DA 2	1.080	69	6	0.5688	6.22	3.822	0.6364	8.33	5.723	0.6833	9.51	7.016	0.7671	11.50	9.526	piped flow
DA 3	0.270	94	6	0.6988	6.22	1.174	0.7764	8.33	1.745	0.8258	9.51	2.120	0.9146	11.50	2.839	Sheet flow to I-35 Frontage Road
DA 4	0.060	40	6	0.418	6.22	0.156	0.474	8.33	0.237	0.518	9.51	0.295	0.596	11.50	0.411	piped flow
DA 5	0.060	0	6	0.21	6.22	0.078	0.25	8.33	0.125	0.29	9.51	0.165	0.36	11.50	0.248	piped flow
DA 6	0.220	0	6	0.21	6.22	0.287	0.25	8.33	0.458	0.29	9.51	0.607	0.36	11.50	0.911	Sheet flow to ex. Channel
DA 7	0.320	0	6	0.21	6.22	0.418	0.25	8.33	0.666	0.29	9.51	0.882	0.36	11.50	1.325	Ex. Detention and Water Quality Pond
DA 8	0.230	0	6	0.21	6.22	0.300	0.25	8.33	0.479	0.29	9.51	0.634	0.36	11.50	0.952	Sheet flow to I-35 Frontage Road
DA OFFSITE	2.810	65	6	0.548	6.22	9.580	0.614	8.33	14.366	0.6605	9.51	17.644	0.7435	11.50	24.023	Ex. Offsite Drainage area to Detention Pond.
Total	6.12	61				20.05			30.12			37.07			50.62	

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SITE DEVELOPMENT IMPROVEMENTS
CHASCO YMCA ADDITION
1801 NORTH INTERSTATE HIGHWAY 35
ROUND ROCK, TX 78664

NO.	DATE	DESCRIPTION
		REVISIONS

HEA PROJECT NO.18-021
ISSUED DATE: 10/04/2019

EXISTING DRAINAGE AREA MAP

SHEET NO.
C50A
13
SITE PLAN NO.
SDP1904-0001

Oct 07, 2019-8:53am Z:\HEA\HEA Projects\Projects 18-000\18-021 Chasco YMCA\CAD Files\Civil\SD\18-021C50A.dwg

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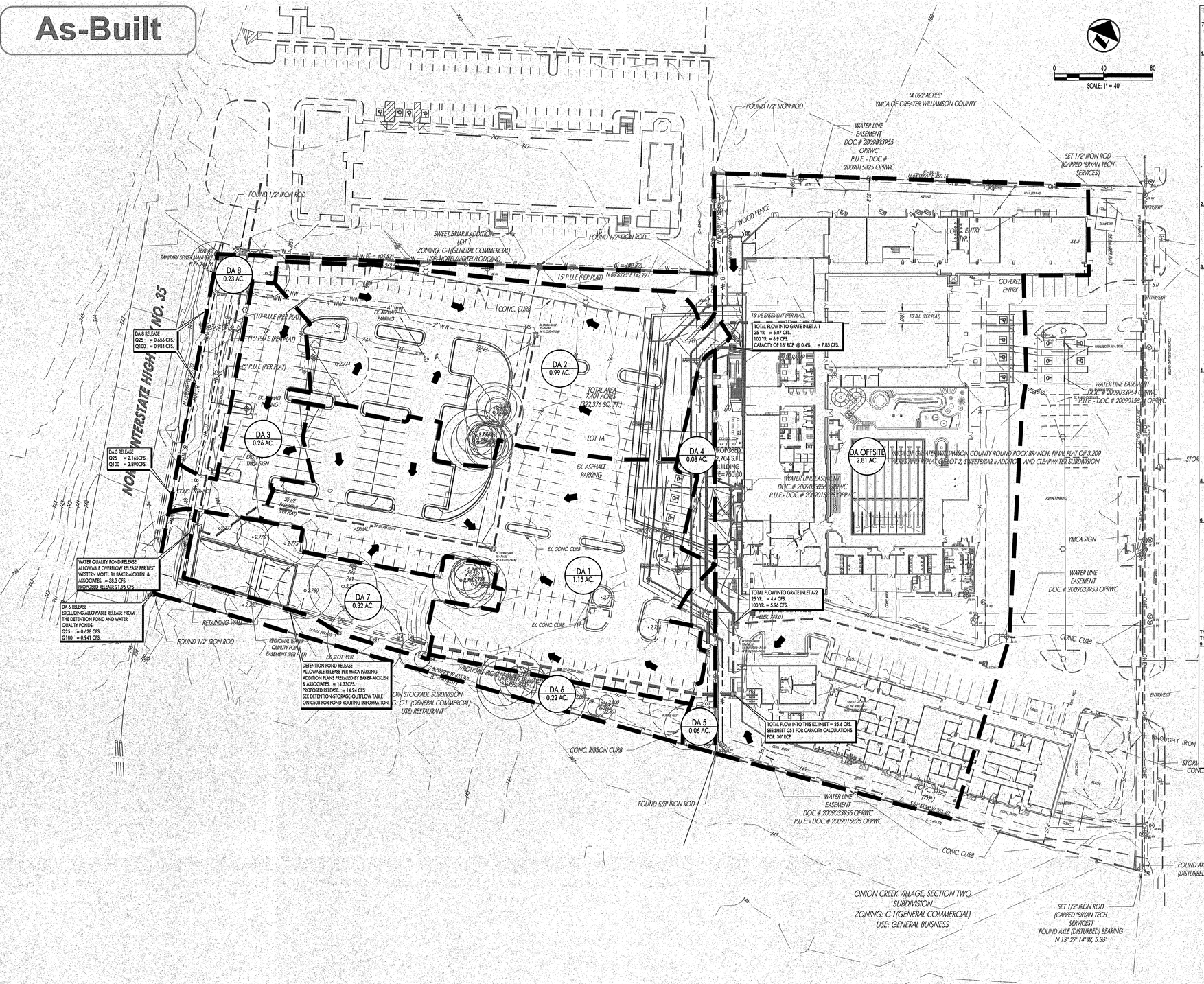

NOTES:

1. TOTAL PROJECT AREA DELINEATED IN TSS REMOVAL CALCULATIONS INCLUDE AREAS FOR THE 'BEST WESTERN MOTEL' DEVELOPMENT WHICH ABUTS THIS TRACT.
2. GRATE INLET CAPACITY CALCULATIONS HAVE BEEN ADJUSTED FOR CLOGGING PER DACS OF ROUND ROCK SECTION 4.3.0.

25 YEAR INLET FLOW CALCULATION

No.	DA No.	Q (cfs.)	Q bypass (cfs.)	Q total (cfs.)	a (ft.)	Yo (ft.)	Inlet Area (sq.ft.)	Qa (cfs.)
A-1	OFFSITE	5.070	-	5.070	0.500	0.420	16.000	27.266
A-2	OFFSITE	4.400	-	4.400	0.500	0.420	16.000	27.266

100 YEAR INLET FLOW CALCULATION

No.	DA No.	Q (cfs.)	Q bypass (cfs.)	Q total (cfs.)	a (ft.)	Yo (ft.)	Inlet Area (sq.ft.)	Qa (cfs.)
A-1	OFFSITE	6.900	-	6.900	0.500	0.420	16.000	27.266
A-2	OFFSITE	5.960	-	5.960	0.500	0.420	16.000	27.266

DEVELOPED DRAINAGE SUMMARY

Area No.	Acres	%IC	Tc	C2	I2	Q2	C10	I10	Q10	C25	I25	Q25	C100	I100	Q100	Remarks
DA 1	1.150	93	5	0.6936	6.48	5.168	0.7708	8.64	7.660	0.8201	9.84	9.280	0.9087	11.88	12.415	piped flow to W.Q. pond
DA 2	0.990	76	5	0.6052	6.48	3.882	0.6756	8.64	5.780	0.7232	9.84	7.045	0.8084	11.88	9.508	piped flow to W.Q. pond
DA 3	0.260	98	5	0.7196	6.48	1.212	0.7988	8.64	1.795	0.8486	9.84	2.171	0.9382	11.88	2.898	Sheet Flow into Ex. Channnel
DA 4	0.080	30	5	0.366	6.48	0.190	0.418	8.64	0.289	0.461	9.84	0.363	0.537	11.88	0.510	Piped flow to Detention Pond
DA 5	0.060	0	5	0.21	6.48	0.082	0.25	8.64	0.130	0.29	9.84	0.171	0.36	11.88	0.257	Piped flow to Detention Pond
DA 6	0.220	0	5	0.21	6.48	0.299	0.25	8.64	0.475	0.29	9.84	0.628	0.36	11.88	0.941	Sheet Flow to Ex. Channel
DA 7	0.320	0	5	0.21	6.48	0.435	0.25	8.64	0.691	0.29	9.84	0.913	0.36	11.88	1.369	Ex. Ponds
DA 8	0.230	0	5	0.21	6.48	0.313	0.25	8.64	0.497	0.29	9.84	0.656	0.36	11.88	0.984	Sheet Flow to Ex. Channel
DA OFFSITE	2.810	65	5	0.548	6.48	9.977	0.614	8.64	14.910	0.6605	9.84	18.262	0.7435	11.88	24.821	Piped flow to Detention Pond
Total	6.12	64				21.56			32.23			39.49			53.70	

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: CHASCO Y.M.C.A.
Date Prepared: 5/23/2019

1. The Required Load Reduction for the total project: Calculations from RG-348 Pages 3-27 to 3-30

Page 3-29 Equation 3.3: $L_M = 27.2(A_N \times P)$

where:
$L_{M\ TOTAL\ PROJECT}$ = Required TSS removal resulting from the proposed development = 80% of increased load
A_N = Net increase in impervious area for the project
P = Average annual precipitation, inches

Site Data: Determine Required Load Removal Based on the Entire Project

County =	Williamson	
Total project area included in plan * =	4.88	acres
Predevelopment impervious area within the limits of the plan * =	0.00	acres
Total post-development impervious area within the limits of the plan* =	3.45	acres
Total post-development impervious cover fraction * =	0.71	
P =	32	inches
$L_{M\ TOTAL\ PROJECT}$ =	3003	lbs.

* **The values entered in these fields should be for the total project area.**

Number of drainage basins / outfalls areas leaving the plan area = 1

2. Drainage Basin Parameters (This information should be provided for each basin):

Drainage Basin/Outfall Area No. = 1

Total drainage basin/outfall area =	4.88	acres
Predevelopment impervious area within drainage basin/outfall area =	0.00	acres
Post-development impervious area within drainage basin/outfall area =	3.45	acres
Post-development impervious fraction within drainage basin/outfall area =	0.71	
$L_{M\ THIS\ BASIN}$ =	3003	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Sand Filter
Removal efficiency = 89 percent

Aqualogic Cartridge Filter
Bioretention
Contech StormFilter
Constructed Wetland
Extended Detention
Grassy Swale
Retention / Irrigation
Sand Filter
Stormceptor
Vegetated Filter Strips
Vortechs
Wet Basin
Wet Vault

4. Calculate Maximum TSS Load Removed (L_R) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7: L_R = (BMP efficiency) x P x (A_C x 34.6 + A_P x 0.54)

where:
A_C = Total On-Site drainage area in the BMP catchment area
A_I = Impervious area proposed in the BMP catchment area
A_P = Pervious area remaining in the BMP catchment area
L_R = TSS Load removed from this catchment area by the proposed BMP

A_C =	4.88	acres
A_I =	3.45	acres
A_P =	1.43	acres
L_R =	3422	lbs.

CONTRACTOR FIELD SET
This plan set shall remain on the site or subdivision premises for the life of the project and shall be utilized for any and all improvements contained herein.

5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area

Desired $L_{M\ THIS\ BASIN}$ =	2655	lbs.
F =	0.78	

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area. Calculations from RG-348 Pages 3-34 to 3-38

Rainfall Depth =	1.00	inches
Post Development Runoff Coefficient =	0.81	
On-site Water Quality Volume =	9082	cubic feet

Calculations from RG-348 Pages 3-35 to 3-37

Off-site area draining to BMP =	0.00	acres
Off-site impervious cover draining to BMP =	0.00	acres
Impervious fraction of off-site area =	0	
Off-site Runoff Coefficient =	0.00	
Off-site Water Quality Volume =	0	cubic feet
Storage for Sediment =	1816	
Total Capture Volume (required water quality volume(s) x 1.20) =	10899	cubic feet

The following sections are used to calculate the required water quality volume(s) for the selected BMP.
The values for BMP Types not selected in cell C45 will show NA.

9. Filter area for Sand Filters Designed as Required in RG-348 Pages 3-58 to 3-63

9A. Full Sedimentation and Filtration System

Water Quality Volume for sedimentation basin =	10899	cubic feet
Minimum filter basin area =	505	square feet
Maximum sedimentation basin area =	4541	square feet **For minimum water depth of 2 feet**
Minimum sedimentation basin area =	1135	square feet **For maximum water depth of 8 feet**

9B. Partial Sedimentation and Filtration System

Water Quality Volume for combined basins =	10899	cubic feet
Minimum filter basin area =	908	square feet
Maximum sedimentation basin area =	3633	square feet **For minimum water depth of 2 feet**
Minimum sedimentation basin area =	227	square feet **For maximum water depth of 8 feet**

Detention Pond Depth v. Storage v. Outflow

Elevation [ft]	Depth [ft]	Accumul. Depth [ft]	Area [sq. ft]	Volume [cu. Ft.]	Accumul. Volume [cu.ft.]	allow.rel [cfs]	Outflow [cfs]	Remarks
741	**0**	**0**	**0.0**	**0.0**	**0.0**		**0.00**	
741.1	0.1	0.1	359.5	36.0	36.0		0.17	
741.2	0.1	0.2	719.0	71.9	107.9		0.34	
741.3	0.1	0.3	1078.5	107.9	215.7		0.52	
741.4	0.1	0.4	1438.0	143.8	359.5		0.69	
741.5	0.1	0.5	1797.5	179.8	539.3		0.86	
741.6	0.1	0.6	2157.0	215.7	755.0		1.22	
741.7	0.1	0.7	2516.5	251.7	1006.6		1.58	
741.8	0.1	0.8	2876.0	287.6	1294.2		1.94	
741.9	0.1	0.9	3235.5	323.6	1617.8		2.30	
742	**0.1**	**1**	**3595.0**	**359.5**	**1977.3**		**2.66**	
742.1	0.1	1.1	3664.2	366.4	2343.7		3.02	
742.2	0.1	1.2	3733.4	373.3	2717.0		3.38	
742.3	0.1	1.3	3802.6	380.3	3097.3		3.74	
742.4	0.1	1.4	3871.8	387.2	3484.5		4.10	
742.5	0.1	1.5	3941.0	394.1	3878.6		4.46	
742.6	0.1	1.6	4010.2	401.0	4279.6		4.98	
742.7	0.1	1.7	4079.4	407.9	4687.5		5.49	
742.8	0.1	1.8	4148.6	414.9	5102.4		6.01	
742.9	0.1	1.9	4217.8	421.8	5524.2		6.52	
743	**0.1**	**2**	**4287.0**	**428.7**	**5952.9**		**7.04**	
743.1	0.1	2.1	4340.1	434.0	6386.9		7.55	
743.2	0.1	2.2	4393.2	439.3	6826.2		8.07	
743.3	0.1	2.3	4446.3	444.6	7270.8		8.58	
743.4	0.1	2.4	4499.4	449.9	7720.8		9.10	
743.5	0.1	2.5	4552.5	455.3	8176.0		9.61	
743.6	0.1	2.6	4605.6	460.6	8636.6		10.37	
743.7	0.1	2.7	4658.7	465.9	9102.4		11.13	
743.8	0.1	2.8	4711.8	471.2	9573.6		11.89	
743.9	0.1	2.9	4764.9	476.5	10050.1		12.65	
744	**0.1**	**3**	**4818.0**	**481.8**	**10531.9**		**13.42**	
744.1	0.1	3.1	4818.0	481.8	11013.7		14.18	
744.12	**0.02**	**3.12**	**4818.0**	**96.4**	**11110.1**	**14.33**	**14.24**	**100 year**
744.2	0.08	3.2	4818.0	385.4	11495.5		14.94	
744.25	**0.05**	**3.25**	**4818.0**	240.9	11736.4		**15.45**	

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THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY TERRY R. HAGOOD, P.E. 52960

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DATE SIGNED: 10/04/2019
ISSUED FOR: AGENCY REVIEW

SITE DEVELOPMENT IMPROVEMENTS CHASCO YMCA ADDITION 1801 NORTH INTERSTATE HIGHWAY 35 ROUND ROCK, TX 78664

NO.	DATE	DESCRIPTION
		REVISIONS

HEA PROJECT NO.18-021
ISSUED DATE: 10/04/2019

DEVELOPED DRAINAGE AREA MAP

SHEET NO.
C50B
14
SITE PLAN NO.
SDP1904-0001

Oct 07, 2019-8:54am Z:\HEA\HEA Projects\Projects 18.000\18-021 Chasco YMCA\CAD Files\Civil\SD\18-021C508.dwg

As-Built

OFFSITE FLOWS FROM THE "BEST WESTERN MOTEL" DO NOT ENCROACH THE CHASCO TRACT. FLOWS GENERATED BY THE BEST WESTERN ARE PIPED TO THE W.Q. POND.

EX. STORM GRATE INLET

BOLTED 1.5' x 4' x 3/8" GALVANIZED STEEL PLATE TO REDUCE SLOT WEIR WIDTH FROM 1.44' TO 0.81'
PREDEVELOPED ALLOWABLE RELEASE = 14.33 CFS
POST DEVELOPED ALLOWABLE RELEASE = 14.24 CFS
SEE SHEET C51 FOR WEIR DETAIL
BOLTS TO BE 3" x 1/4" GALVANIZED QUICK BOLTS

EX. 30" STORM SEWER LINE
SEE SHEET C51 FOR CAPACITY AND CONVEYANCE CALCULATION

STA. 2+36.08 STORM SEWER LINE 'A'
PREFABRICATED 45° BEND
18" HDPE FL = 744.09

STA. 2+21.82 STORM SEWER LINE 'A'
PREFABRICATED 45° BEND
18" HDPE FL = 744.02

STA. 1+62.43 STORM SEWER LINE 'A'
GAS CROSSING
CONTRACTOR TO FIELD VERIFY

STA. 1+38.87 STORM SEWER LINE 'A'
WASTEWATER CROSSING
SEE C52 FOR CROSSING FLOWLINES

STA. 0+92.65 STORM SEWER LINE 'A'
PIPE TRANSITION FROM 18"-21"

STA. 0+73.65 STORM SEWER LINE 'A'
STA. 0+00.00 DOWNSPOUT 'A1'
PREFABRICATED TEE
SEE C52 FOR PROFILE

STA. 0+71.38 STORM SEWER LINE 'A'
GAS CROSSING
CONTRACTOR TO FIELD VERIFY

STA. 0+38.65 STORM SEWER LINE 'A'
PREFABRICATED 45° BEND
21" HDPE FL = 743.05

STA. 0+00.00 STORM SEWER LINE 'A'
EX. STORM GRATE INLET
21" HDPE FL = 742.88
24" FL = 742.88
SEE NOTE 2

STA. 2+47.50 STORM SEWER LINE 'A'
NEW 4'X4' AREA INLET
18" HDPE FL = 744.17
SEE PROFILE FOR FLOWLINES
SEE DETAIL 09/C70

5' CURB CUT

1'x1' YARD BOX INLET

STA. 0+31.81 STORM SEWER LINE 'A'
GAS CROSSING
CONTRACTOR TO FIELD VERIFY

STA. 0+08.05 STORM SEWER LINE 'A'
PREFABRICATED 45° BEND
SEE C52 FOR PROFILE

DOWNSPOUT 'A2'
7 LF 6" HDPE @ 1%

DOWNSPOUT 'A3'
7 LF 6" HDPE @ 1%

DOWNSPOUT 'A1'
35 LF 8" HDPE @ 1%

DOWNSPOUT 'A4'
14 LF 6" HDPE @ 1%

PROPOSED 2,704 S.F. BUILDING FFE=750.00

TOTAL AREA
7.401 ACRES
(322,376 SQ. FT.)

LOT 1A

SWEET BRIAR II ADDITION
LOT 1
ZONING: C-1 (GENERAL COMMERCIAL)
USE: HOTEL/LODGING

SIRLOIN STOCKADE SUBDIVISION
ZONING: C-1 (GENERAL COMMERCIAL)
USE: RESTAURANT

FOUND 1/2" IRON ROD

15' P.U.E. (PER PLAT)

10' P.U.E. (PER PLAT)

15' P.U.E. (PER PLAT)

5' P.U.E. (PER PLAT)

26' I/E EASEMENT (PER PLAT)

REGIONAL WATER QUALITY POND EASEMENT (PER PLAT)

CONC. CURB

CONC. ENTRANCE

EXISTING YMCA SIGN

ASPHALT

24" STORM SEWER

CONC. DRAIN

RETAINING WALL

6' POND UNDERDRAIN

EX. SLOT WEIR
FL=741'
1.44' WIDE

EX. ASPHALT PARKING

EX. STORM GRATE
TG=744.25
24" FL (OUT)=740.80

EX. STORM GRATE
TG=744.50
24" FL (OUT)=742.60

EX. STORM GRATE
TG=744.55
24" FL (OUT)=740.88
18" FL (IN) (1W)=742.88

WOOD FENCE

VERT. CURB

WATER LINE EASEMENT
DOC.# 2009033955 OPRWC
P.U.E. DOC.# 2009015825 OPRWC

STORM SEWER LINE 'A'
21" HDPE

STORM SEWER LINE 'A'
18" HDPE

TBM #1
SANITARY SEWER MANHOLE
ELEV. 748.01
EX. SSMH

RUBBER MAT

TRANSFORMER PAD

WROUGHT IRON FENCE (TYP.)

EX. ASPHALT PARKING

EX. ASPHALT PARKING

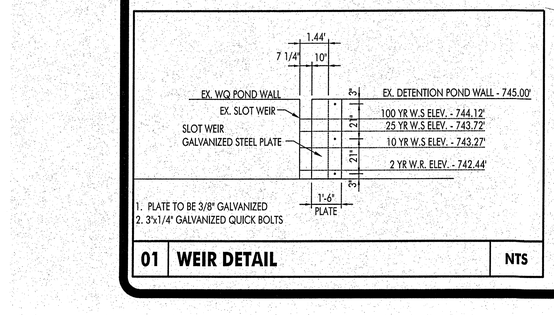
EX. CONC. CURB

EX. CONC. CURB

EX. 30" RCP CAPACITY

Project Description	
Friction Method	Manning Formula
Solve For	Full Flow Capacity
Input Data	
Roughness Coefficient	0.011
Channel Slope	0.004
Normal Depth	19.0
Diameter	30.0
Discharge	30.66
Results	
Discharge	30.66
Normal Depth	30.0
Flow Area	4.9
Wetted Perimeter	7.9
Hydraulic Radius	7.5
Top Width	0.00
Critical Depth	22.5
Percent Full	100.0
Critical Slope	0.005
Velocity	6.26
Velocity Head	0.61
Specific Energy	3.11
Froude Number	(N/A)
Maximum Discharge	32.58
Discharge Full	30.66
Slope Full	0.004
Flow Type	Undefined

NOTES:
1. ALL STORM SEWER WYES, BENDS AND PIPE SIZE TRANSITIONS SHALL BE PREFABRICATED AND FREE FROM DEFECTS.
2. CORE INLET, MAKE NEW CONNECTION AND GROUT SEAL AREA INLET INSIDE AND OUT.



1. PLATE TO BE 3/8" GALVANIZED
2. 3"x1/4" GALVANIZED QUICK BOLTS

01 WEIR DETAIL — NTS

0 20 40
SCALE: 1" = 20'

LEGEND

- IRON ROD FOUND/SET
- CONCRETE MONUMENT FOUND/SET
- NAIL FOUND/SET
- PIPE FOUND
- STORMWATER MANHOLE (DRAWN TO SCALE)
- JUNCTION BOX (DRAWN TO SCALE)
- GRATE INLET (DRAWN TO SCALE)
- WASTEWATER MANHOLE (DRAWN TO SCALE)
- WASTEWATER CLEANOUT
- GAS TEST STATION
- GAS METER
- ELECTRIC METER
- LIGHT POLE
- SIGNAL LIGHT POLE
- UTILITY POLE
- TELEPHONE MANHOLE
- FIRE HYDRANT
- GATE VALVE
- IRRIGATION CONTROL VALVE
- WATER METER
- EXISTING CONTOURS
- PROPOSED CONTOUR
- PROPOSED CURB AND GUTTER
- PROPOSED ASPHALT
- PROPOSED X" DIA. GAS LINE
- PROPOSED X" DIA. STORM SEWER LINE
- PROPOSED X" DIA. WASTEWATER LINE
- PROPOSED X" DIA. WATER LINE
- EXISTING CHAIN LINK FENCE
- EXISTING WIRE FENCE
- EXISTING WOOD FENCE
- SETBACK LINE
- EASEMENT LINE
- EXISTING ASPHALT
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING OVERHEAD TELEPHONE LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING WATER LINE (SIZE VARIES)
- EXISTING WASTEWATER LINE (SIZE VARIES)
- EXISTING FORCE MAIN (SIZE VARIES)
- EXISTING FIBER OPTIC LINE
- EXISTING GAS LINE (SIZE VARIES)
- BENCHMARK LOCATION
- EXISTING TREE TO REMAIN (SIZE VARIES)
- EXISTING TREE TO BE REMOVED (SIZE VARIES)

CONTRACTOR FIELD SET
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SITE DEVELOPMENT IMPROVEMENTS
CHASCO YMCA ADDITION
1801 NORTH INTERSTATE HIGHWAY 35
ROUND ROCK, TX 78664

NO.	DATE	DESCRIPTION
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HEA PROJECT NO.18-021
ISSUED DATE: 10/04/2019

DRAINAGE PLAN

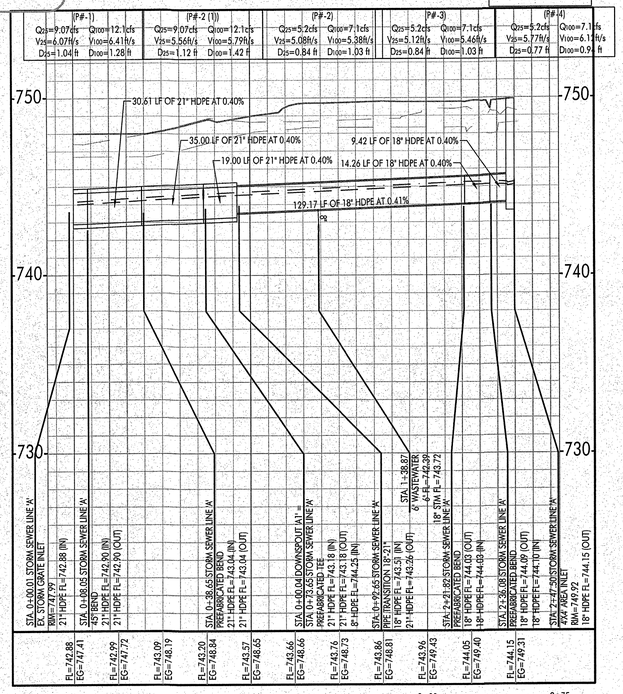
SHEET NO.
C51
15
SITE PLAN NO.
SDP1904-0001

Oct 18,2019-9:54am Z:\HEA\HEA Projects\Projects 18-000\18-021 Chasco YMCA\CAD Files\Civil\SDP\18-021C51.dwg

As-Built

STORM SEWER LINE 'A'

HORIZ SCALE: 40
VERT SCALE: 4



01 STORM SEWER LINE 'A' PROFILE — NTS

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REVISIONS

NO.	DATE	DESCRIPTION

HEA PROJECT NO.18-021
ISSUED DATE: 10/04/2019

STORM SEWER PROFILES

SHEET NO.
C52
16
SITE PLAN NO.
SDP1904-0001

As-Built

SCALE: 1" = 20'

LEGEND

- IRON ROD FOUND/SET
- CONCRETE MONUMENT FOUND/SET
- NAIL FOUND/SET
- PIPE FOUND
- STORMWATER MANHOLE (DRAWN TO SCALE)
- JUNCTION BOX (DRAWN TO SCALE)
- GRATE INLET (DRAWN TO SCALE)
- WASTEWATER MANHOLE (DRAWN TO SCALE)
- WASTEWATER CLEANOUT
- GAS TEST STATION
- GAS METER
- ELECTRIC METER
- LIGHT POLE
- SIGNAL LIGHT POLE
- UTILITY POLE
- TELEPHONE MANHOLE
- FIRE HYDRANT
- GATE VALVE
- IRRIGATION CONTROL VALVE
- WATER METER
- EXISTING CONTOURS
- PROPOSED CONTOUR
- PROPOSED CURB AND GUTTER
- PROPOSED ASPHALT
- PROPOSED 'X' DIA. GAS LINE
- PROPOSED 'X' DIA. STORM SEWER LINE
- PROPOSED 'X' DIA. WASTEWATER LINE
- PROPOSED 'X' DIA. WATER LINE
- EXISTING CHAIN LINK FENCE
- EXISTING WIRE FENCE
- EXISTING WOOD FENCE
- SETBACK LINE
- EASEMENT LINE
- EXISTING ASPHALT
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING OVERHEAD TELEPHONE LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING WATER LINE (SIZE VARIES)
- EXISTING WASTEWATER LINE (SIZE VARIES)
- EXISTING FORCE MAIN (SIZE VARIES)
- EXISTING FIBER OPTIC LINE
- EXISTING GAS LINE (SIZE VARIES)
- BENCHMARK LOCATION
- EXISTING TREE TO REMAIN (SIZE VARIES)
- EXISTING TREE TO BE REMOVED (SIZE VARIES)

013120-2
CONTRACTOR FIELD SET
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NOTES:
1. CONTRACTOR TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. ALL EXISTING GROUND LEVEL APPURTENANCES ARE SUBJECT TO ELEVATION CHANGES AND SHALL BE ADJUSTED TO FINAL GRADE.
3. ALL WASTEWATER MANHOLES SHALL BE COATED AND VACUUM TESTED.
4. MANHOLES OUTSIDE OF PAVEMENT SHALL HAVE BOLTED COVERS.
5. ALL GRAVITY WASTEWATER LINES ARE TO BE CONSTRUCTED OF SDR-26.
6. ALL NON-CITY INFRASTRUCTURE INCLUDING GAS, ELECTRIC CABLE, AND TELECOMMUNICATIONS SHALL TRAVERSE UNDERNEATH CITY INFRASTRUCTURE, INCLUDING BUT NOT LIMITED TO WATERLINES, WASTEWATER LINES, AND STORM SEWERS, WITH A MINIMUM OUTSIDE-TO-OUTSIDE CLEARANCE OF 18" WHERE NON-CITY INFRASTRUCTURE WOULD HAVE TO BE PLACED AT A DEPTH OF 8' OR GREATER TO MEET THE PRECEDING REQUIREMENT, TRAVERSING ABOVE CITY INFRASTRUCTURE MAY BE ALLOWED, SUBJECT TO THE APPROVAL OF THE CITY ENGINEER, BUT ONLY IN CONFORMANCE WITH CROSS-SECTIONS, PROFILES, AND / OR OTHER DETAILED INFORMATION INCORPORATED IN THESE PLANS.
7. CONTRACTOR TO STAKEOUT WATERLINE EASEMENT PRIOR TO THE INSTALLATION OF THE WATERLINE, FOR INSTALLATION ACCURACY.
8. FOR ALL POINTS WHERE A WASTEWATER GRAVITY OR FORCE MAIN LINE CROSSES UNDER A PUBLIC WATER SUPPLY OR WATER SERVICE:
   - 8.1. VERTICAL SEPARATION MUST BE AT LEAST TWO FEET FROM OUTSIDE DIAMETERS OF PIPES;
   - 8.2. WASTEWATER PIPE WITH A MINIMUM PRESSURE RATING OF 150 PSI;
   - 8.3. ONE SEGMENT OF WATER LINE SHALL BE CENTERED ON CROSSING.
9. FOR ALL POINTS WHERE A WASTEWATER GRAVITY OR FORCE MAIN LINE CROSSES OVER A PUBLIC WATER SUPPLY OR WATER SERVICE:
   - 9.1. VERTICAL SEPARATION MUST BE AT LEAST TWO FEET FROM OUTSIDE DIAMETERS OF PIPE;
   - 9.2. WATER SHALL BE PLACED IN AN ENCASEMENT CENTERED ON THE CROSSING, SEALED AT BOTH ENDS WITH CEMENT GROUT OR MANUFACTURED SEAL, AT LEAST TWO NOMINAL SIZES LARGER, AND SUPPORTED BY SPACERS AT 5' INTERVALS;
   - 9.3. ONE SEGMENT OF WATERLINE SHALL BE CENTERED ON CROSSING.
10. FOR WASTEWATER OR FORCE MAIN LINES THAT PARALLEL PUBLIC WATER OR WATER SERVICES:
    - 10.1. SEPARATION MUST BE AT LEAST NINE FEET FROM OUTSIDE DIAMETERS OF PIPE IN ANY DIRECTION;
11. ALL WATER LINE FITTINGS SHALL BE RESTRAINED AND THRUST BLOCKED.
12. UNLESS OTHERWISE SPECIFIED, ALL WATER MAINS SHALL BE CONSTRUCTED OF C900 DR-14 PVC.
13. PROVIDE 3' CLEAR AREA AROUND FIRE HYDRANTS.
14. ALL FIRE SERVICE LEADS AND FIRE HYDRANT LEADS SHALL BE DUCTILE IRON.
15. VALVES SHALL BE AMERICAN DARLING BRAND.
16. FIRE HYDRANTS SHALL BE AMERICAN DARLING BRAND.
17. CONTRACTOR SHALL PATCH ALL PAVEMENT PER DETAIL 04/C70.
18. EX. MANHOLE SHALL BE VACUUM TESTED , NEW GASKET INSTALLED, GROUTED WITH BOOT, MANHOLE COATED AND RETESTED PER SEE 10/C71
19. WATERLINE PIPES ARE TO BE CONSTRUCTED WITH RESTRAINED JOINTS AT EACH CONNETION/ FITTING AND VALVE.
20. PROVIDE MIN 3' CLEAR PIPE DISTANCE FROM BELLS, FITTINGS, VALVES AND SADDLES
21. WATER SERVICE SHALL BE 2" TO THE METER AND UPSIZED TO 2.5" PAST THE METER GOING INTO THE BUILDING.
22. METER SERVICE PIPE TYPE SHALL BE PER DETAIL ON SHEET 11/C71

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1801 NORTH INTERSTATE HIGHWAY 35
ROUND ROCK, TX 78664

NO.	DATE	REVISIONS DESCRIPTION
1	10-31-2019	CHANGED WL BEND TO 45° REMOVED DEFERENCE TO 2" GATE VALVE
2	1/20/2020	ADJUSTED WATER LINE AND ABANDONED WASTEWATER MANHOLE

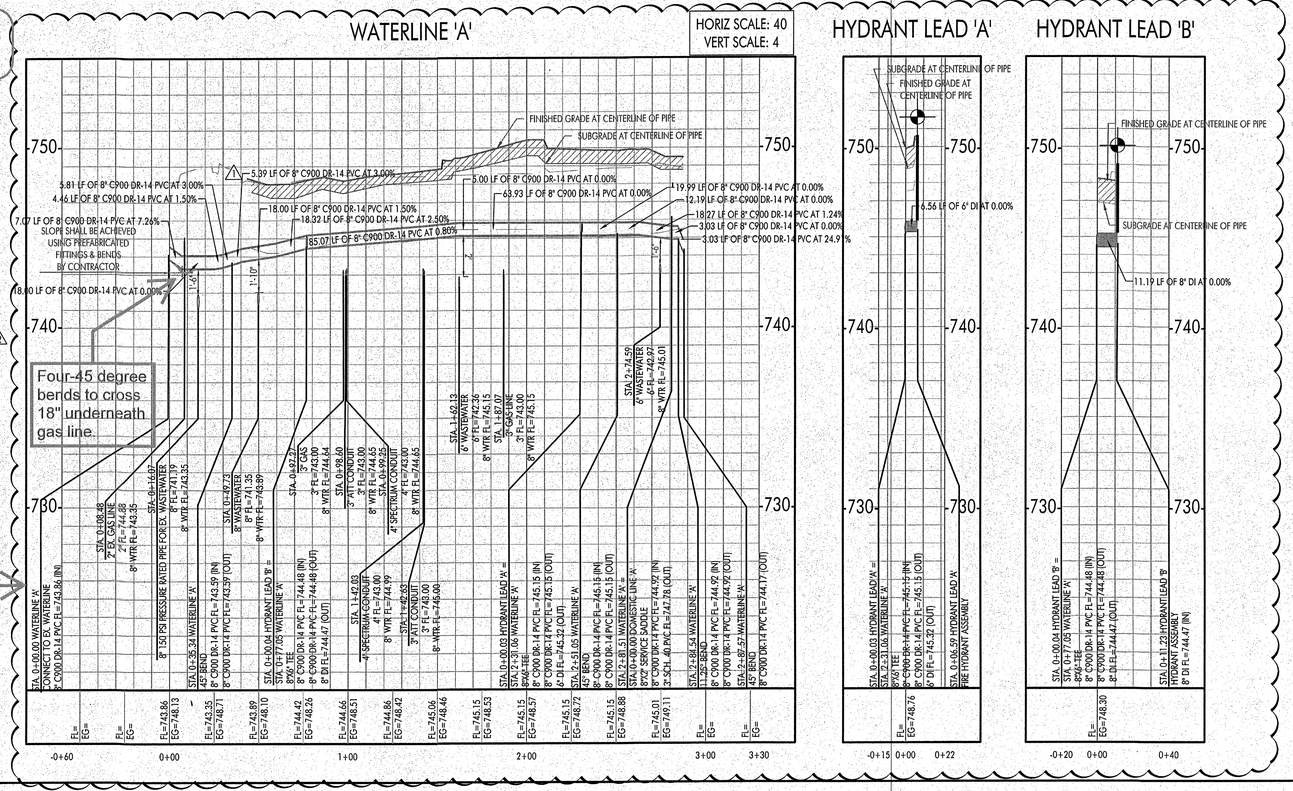
HEA PROJECT NO.18-021
ISSUED DATE: 10/31/2019

UTILITY PLAN

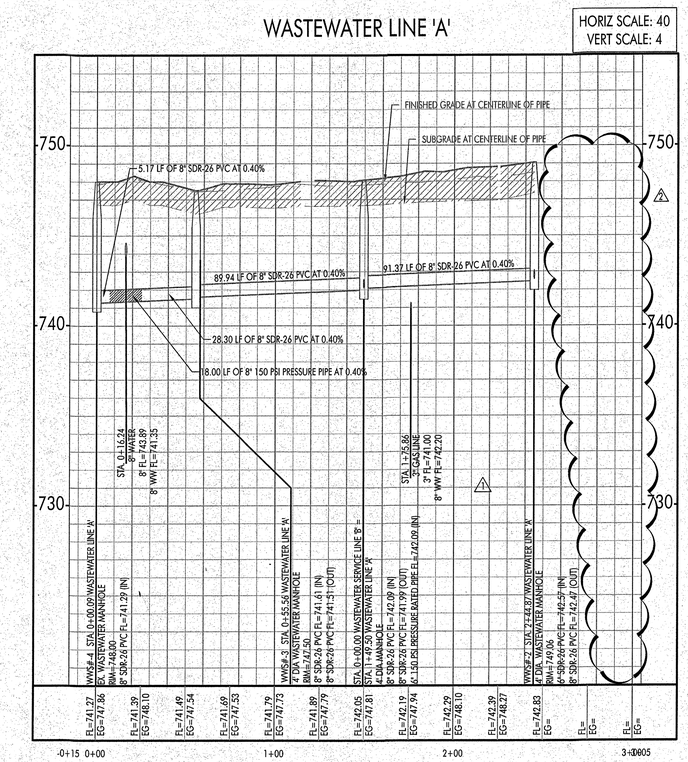
SHEET NO.
C60
17
SITE PLAN NO.
SDP1904-0001

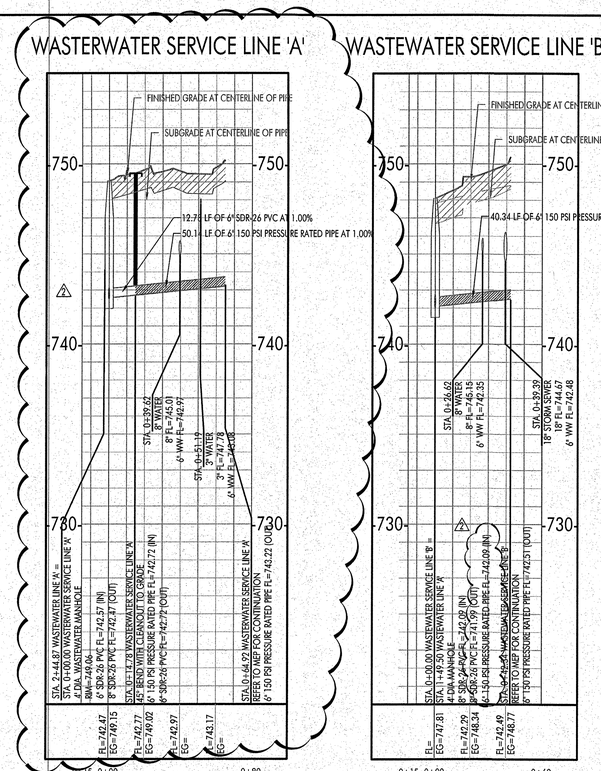
Jan 30,2020-11:31am Z:\HEA\HEA Projects\Projects 18-000\18-021 Chasco YMCA\CAD Files\Civil\SD\18-021C60.dwg

As-Built



01 **WATER PROFILES** NTS





013120-2

CONTRACTOR FIELD SET
This plan set shall remain on the site or subdivision premises for the life of the project and shall be utilized for any and all improvements contained herein.

02 **WASTEWATER PROFILES** NTS

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STATE OF TEXAS
TERRY R. HAGOOD
52960
REGISTERED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY TERRY R. HAGOOD, P.E. 52960.
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DATE SIGNED: 1/15/2020
ISSUED FOR: AGENCY REVIEW

SITE DEVELOPMENT IMPROVEMENTS
CHASCO YMCA ADDITION
1801 NORTH INTERSTATE HIGHWAY 35
ROUND ROCK, TX 78664

REVISIONS			
NO.	DATE	DESCRIPTION	
1	10-31-2019	ADJUSTED PROFILE TO GAIN PROPER SEPARATION	
2	1/20/2020	ADJUSTED WATER LINE AND WASTEWATER LINE	

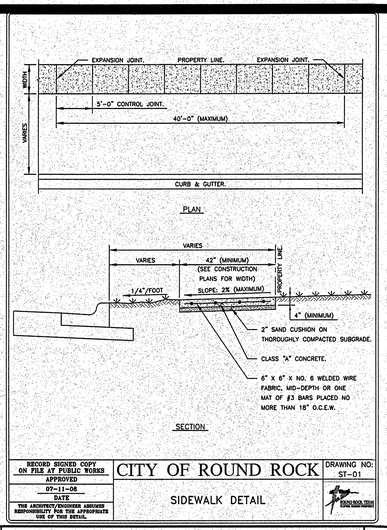
HEA PROJECT NO.18-021
ISSUED DATE: 10/31/2019

UTILITY PROFILES

SHEET NO.
C61
18
SITE PLAN NO.
SDP1904-0001

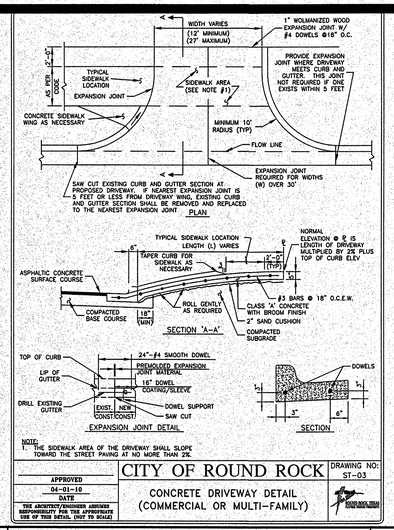
Jan 30,2020-11:22am Z:\HEA\HEA Projects\Projects 18-000\18-021 Chasco YMCA\CAD Files\Civil\SD\13 C61.dwg

As-Built



RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: ST-01
APPROVED 07-11-08 DATE	SIDEWALK DETAIL	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		

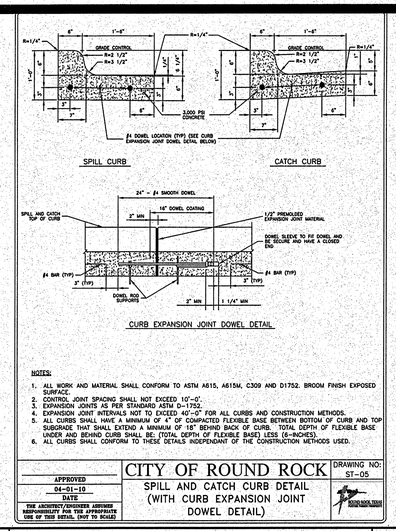
01 SIDEWALK DETAIL — NTS



NOTE:
1. THE SIDEWALK AREA OF THE DRIVEWAY SHALL SLOPE TOWARD THE STREET PAVING AT NO MORE THAN 2%.

APPROVED 04-01-10 DATE	CITY OF ROUND ROCK	DRAWING NO: ST-02
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)	CONCRETE DRIVEWAY DETAIL (COMMERCIAL or MULTI-FAMILY)	

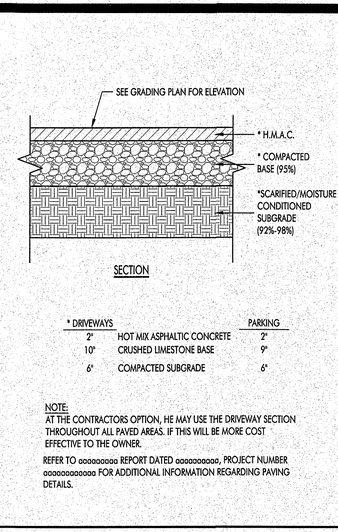
02 CONCRETE DRIVEWAY DETAIL — NTS



NOTES:
1. ALL WORK AND MATERIAL SHALL CONFORM TO ASTM A615, A615M, C309 AND D1752. BROOM FINISH EXPOSED SURFACE.
2. CONTROL JOINT SPACING SHALL NOT EXCEED 10'-0".
3. EXPANSION JOINTS AS PER STANDARD ASTM D-1752.
4. EXPANSION JOINT INTERVALS NOT TO EXCEED 40'-0" FOR ALL CURBS AND CONSTRUCTION METHODS.
5. ALL CURBS SHALL HAVE A MINIMUM OF 4" OF COMPACTED FLEXIBLE BASE BETWEEN BOTTOM OF CURB AND TOP SUBGRADE THAT SHALL EXTEND A MINIMUM OF 18" BEHIND BACK OF CURB. TOTAL DEPTH OF FLEXIBLE BASE UNDER AND BEHIND CURB SHALL BE: (TOTAL DEPTH OF FLEXIBLE BASE) LESS (6-INCHES).
6. ALL CURBS SHALL CONFORM TO THESE DETAILS INDEPENDANT OF THE CONSTRUCTION METHODS USED.

APPROVED 04-01-10 DATE	CITY OF ROUND ROCK	DRAWING NO: ST-03
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)	SPILL AND CATCH CURB DETAIL (WITH CURB EXPANSION JOINT DOWEL DETAIL)	

03 SPILL AND CATCH CURB — NTS

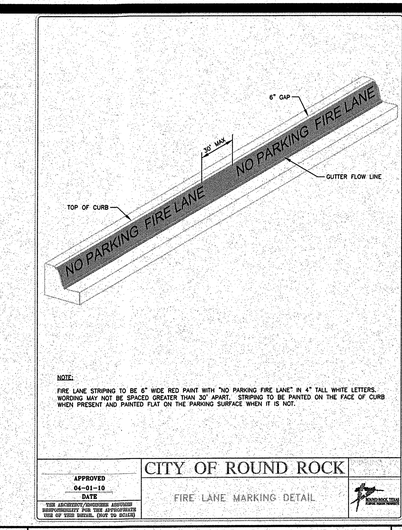


* DRIVEWAYS		PARKING
2"	HOT MIX ASPHALTIC CONCRETE	2"
10"	CRUSHED LIMESTONE BASE	9"
6'	COMPACTED SUBGRADE	6"

NOTE:
AT THE CONTRACTORS OPTION, HE MAY USE THE DRIVEWAY SECTION THROUGHOUT ALL PAVED AREAS. IF THIS WILL BE MORE COST EFFECTIVE TO THE OWNER.

REFER TO ooooooooo REPORT DATED ooooooooo, PROJECT NUMBER ooooooooooo FOR ADDITIONAL INFORMATION REGARDING PAVING DETAILS.

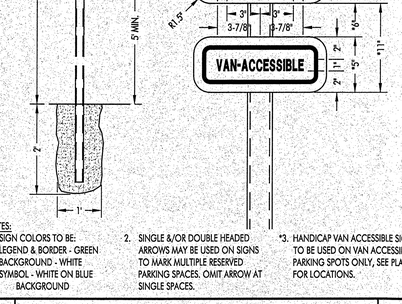
04 ASPHALT PAVING SECTION — NTS



NOTE:
FIRE LANE STRIPING TO BE 6" WIDE RED PAINT WITH "NO PARKING FIRE LANE" IN 4" TALL WHITE LETTERS. WORDING MAY NOT BE SPACED GREATER THAN 30' APART. STRIPING TO BE PAINTED ON THE FACE OF CURB WHEN PRESENT AND PAINTED FLAT ON THE PARKING SURFACE WHEN IT IS NOT.

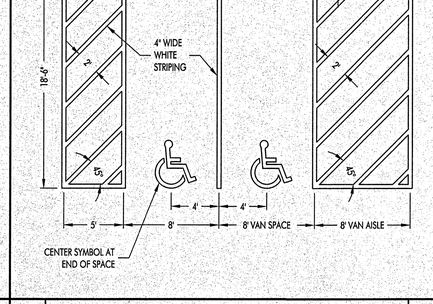
APPROVED 04-01-10 DATE	CITY OF ROUND ROCK	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)	FIRE LANE MARKING DETAIL	

05 FIRE LANE MARKING DETAIL — NTS

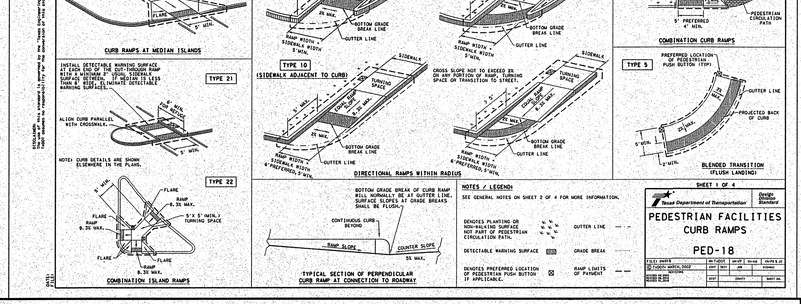


NOTES:
1. SIGN COLORS TO BE: LEGEND & BORDER - GREEN BACKGROUND - WHITE SYMBOL - WHITE ON BLUE BACKGROUND
2. SINGLE &/OR DOUBLE HEADED ARROWS MAY BE USED ON SIGNS TO MARK MULTIPLE RESERVED PARKING SPACES. OMIT ARROW AT SINGLE SPACES.
*3. HANDICAP VAN ACCESSIBLE SIGN TO BE USED ON VAN ACCESSIBLE PARKING SPOTS ONLY, SEE PLANS FOR LOCATIONS.

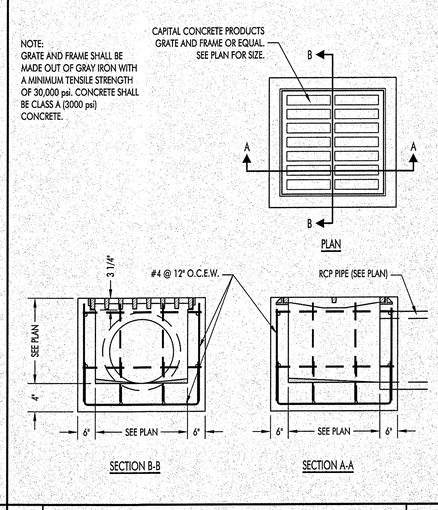
06 HANDICAP SIGN — NTS



07 ADA PARKING STRIPING — NTS

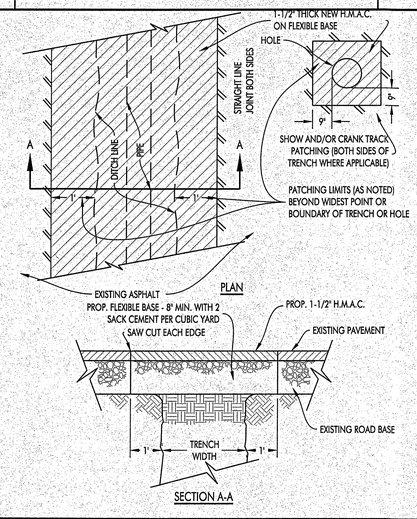


08 TXDOT CURB RAMP DETAILS — NTS



NOTE:
GRATE AND FRAME SHALL BE MADE OUT OF GRAY IRON WITH A MINIMUM TENSILE STRENGTH OF 30,000 psi. CONCRETE SHALL BE CLASS A (3000 psi) CONCRETE.

09 GRATE INLET DETAIL — NTS



10 PAVEMENT REPAIR DETAIL — NTS

CONTRACTOR FIELD SET
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TBPE Registration No. F-12709

STATE OF TEXAS — TERRY R. HAGOOD — 52960 — REGISTERED PROFESSIONAL ENGINEER

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DATE SIGNED: 10/04/2019
ISSUED FOR: AGENCY REVIEW

SITE DEVELOPMENT IMPROVEMENTS
CHASCO YMCA ADDITION
1801 NORTH INTERSTATE HIGHWAY 35
ROUND ROCK, TX 78664

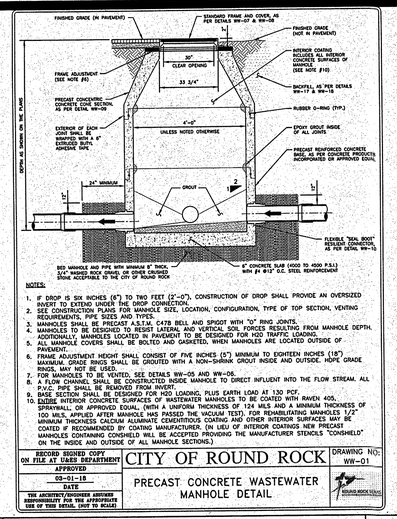
NO.	DATE	DESCRIPTION
		REVISIONS

HEA PROJECT NO.18-021
ISSUED DATE: 10/04/2019

CONSTRUCTION DETAILS

SHEET NO.
C70
19
SITE PLAN NO.
SDP1904-0001

As-Built

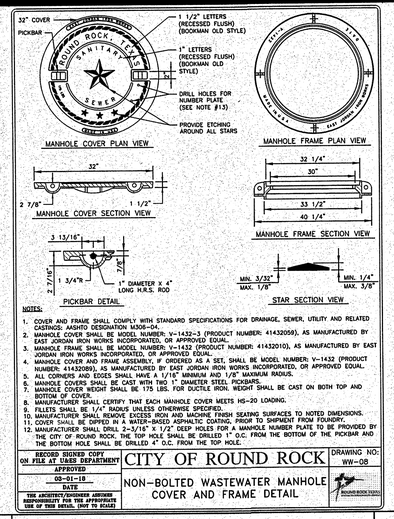


NOTES:

1. IF DROP IS SIX INCHES (6") TO TWO FEET (2'-0"), CONSTRUCTION OF DROP SHALL PROVIDE AN OVERSIZED INVERT TO EXTEND UNDER THE DROP CONNECTION.
2. SEE CONSTRUCTION PLANS FOR MANHOLE SIZE, LOCATION, CONFIGURATION, TYPE OF TOP SECTION, VENTING REQUIREMENTS, PIPE SIZES AND TYPES.
3. MANHOLES SHALL BE PRECAST A.S.T.M. C478 BELL AND SPIGOT WITH "O" RING JOINTS.
4. MANHOLES TO BE DESIGNED TO RESIST LATERAL AND VERTICAL SOIL FORCES RESULTING FROM MANHOLE DEPTH. ADDITIONALLY, MANHOLES LOCATED IN PAVEMENT TO BE DESIGNED FOR H20 TRAFFIC LOADING.
5. ALL MANHOLE COVERS SHALL BE BOLTED AND GASKETED, WHEN MANHOLES ARE LOCATED OUTSIDE OF PAVEMENT.
6. FRAME ADJUSTMENT HEIGHT SHALL CONSIST OF FIVE INCHES (5") MINIMUM TO EIGHTEEN INCHES (18") MAXIMUM. GRADE RINGS SHALL BE GROUTED WITH A NON-SHRINK GROUT INSIDE AND OUTSIDE. HDPE GRADE RINGS, MAY NOT BE USED.
7. FOR CORNERS AND EDGES SHALL HAVE A 1/16" MINIMUM AND 1/8" MAXIMUM RADIUS.
8. A FLOW CHANNEL SHALL BE CONSTRUCTED INSIDE MANHOLE TO DIRECT INFLUENT INTO THE FLOW STREAM. ALL PIPE SHALL BE BENCHED FROM INVERT.
9. BASE SECTION SHALL BE DESIGNED FOR H20 LOADING, PLUS EARTH LOAD AT 130 PCF.
10. EXCEPT INTERIOR CONCRETE SURFACES OF WASTEWATER MANHOLES TO BE COATED WITH RAVEN 405, SPRAYWALL, OR APPROVED EQUAL, (WITH A UNIFORM THICKNESS OF 124 MILS AND A MINIMUM THICKNESS OF 100 MILS, AFTER MANHOLE HAS PASSED THE VACUUM TEST). FOR REHABILITATING MANHOLES 1/2" MINIMUM THICKNESS CALCIUM ALUMINATE CEMENTITIOUS COATING AND OTHER INTERIOR SURFACES MAY BE COATED IF RECOMMENDED BY COATING MANUFACTURER. (IN LIEU OF INTERIOR COATINGS NEW PRECAST MANHOLES CONTAINING CONSHIELD WILL BE ACCEPTED PROVIDING THE MANUFACTURER STENCILS "CONSHIELD" ON THE INSIDE AND OUTSIDE OF ALL MANHOLE SECTIONS.)

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO: WW-01
APPROVED 03-01-18	PRECAST CONCRETE WASTEWATER MANHOLE DETAIL	
DATE		
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

01 PRECAST WASTEWATER MANHOLE DETAIL NTS

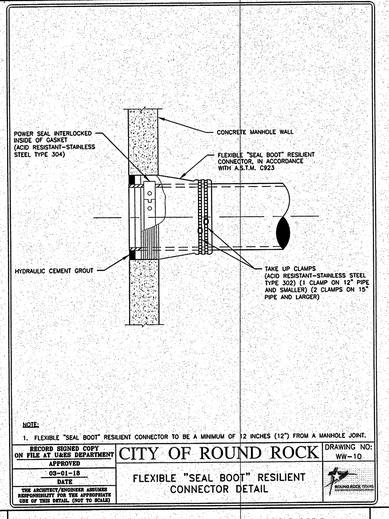


NOTES:

1. COVER AND FRAME SHALL COMPLY WITH STANDARD SPECIFICATIONS FOR DRAINAGE, SEWER, UTILITY AND RELATED CASTINGS: AASHTO DESIGNATION M306-04.
2. MANHOLE COVER SHALL BE MODEL NUMBER: V-1432-S (PRODUCT NUMBER: 41432059), AS MANUFACTURED BY EAST JORDAN IRON WORKS INCORPORATED, OR APPROVED EQUAL.
3. MANHOLE FRAME SHALL BE MODEL NUMBER: V-1432 (PRODUCT NUMBER: 41432010), AS MANUFACTURED BY EAST JORDAN IRON WORKS INCORPORATED, OR APPROVED EQUAL.
4. MANHOLE COVER AND FRAME ASSEMBLY, IF ORDERED AS A SET, SHALL BE MODEL NUMBER: V-1432 (PRODUCT NUMBER: 41432088), AS MANUFACTURED BY EAST JORDAN IRON WORKS INCORPORATED, OR APPROVED EQUAL.
5. ALL CORNERS AND EDGES SHALL HAVE A 1/16" MINIMUM AND 1/8" MAXIMUM RADIUS.
6. MANHOLE COVERS SHALL BE CAST WITH TWO 1" DIAMETER STEEL PICKBARS.
7. MANHOLE COVER WEIGHT SHALL BE 175 LBS. FOR DUCTILE IRON. WEIGHT SHALL BE CAST ON BOTH TOP AND BOTTOM OF COVER.
8. MANUFACTURER SHALL CERTIFY THAT EACH MANHOLE COVER MEETS HS-20 LOADING.
9. MANUFACTURER SHALL BE 1/4" RADIUS UNLESS OTHERWISE SPECIFIED.
10. MANUFACTURER SHALL REMOVE EXCESS IRON AND MACHINE FINISH SEATING SURFACES TO NOTED DIMENSIONS.
11. COVER SHALL BE DIPPED IN A WATER-BASED ASPHALTIC COATING, PRIOR TO SHIPMENT FROM FOUNDRY.
12. MANUFACTURER SHALL DRILL 2-5/16" X 1/2" DEEP HOLES FOR A MANHOLE NUMBER PLATE TO BE PROVIDED BY THE CITY OF ROUND ROCK. THE TOP HOLE SHALL BE DRILLED 1" O.C. FROM THE BOTTOM OF THE PICKBAR AND THE BOTTOM HOLE SHALL BE DRILLED 4" O.C. FROM THE TOP HOLE.

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO: WW-08
APPROVED 03-01-18	NON-BOLTED WASTEWATER MANHOLE COVER AND FRAME DETAIL	
DATE		
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

02 NON-BOLTED WW MH COVER & FRAME NTS

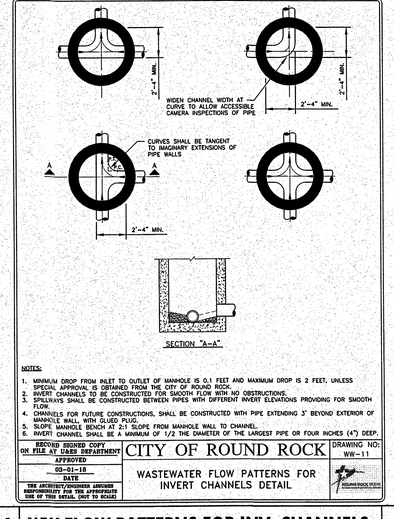


NOTE:

1. FLEXIBLE "SEAL BOOT" RESILIENT CONNECTOR TO BE A MINIMUM OF 12 INCHES (12") FROM A MANHOLE JOINT.

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO: WW-10
APPROVED 03-01-18	FLEXIBLE "SEAL BOOT" RESILIENT CONNECTOR DETAIL	
DATE		
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

03 FLEXIBLE SEAL BOOT RESILIENT CONN. NTS

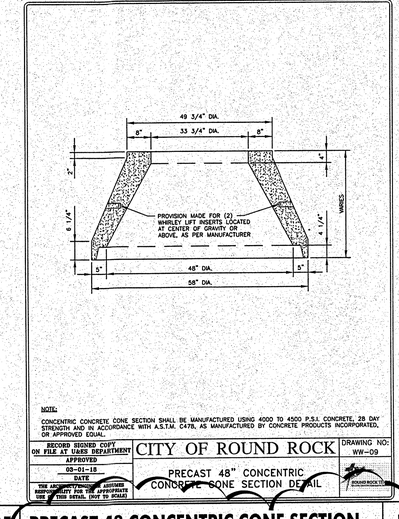


NOTES:

1. MINIMUM DROP FROM INLET TO OUTLET OF MANHOLE IS 0.1 FEET AND MAXIMUM DROP IS 2 FEET, UNLESS SPECIAL APPROVAL IS OBTAINED FROM THE CITY OF ROUND ROCK.
2. INVERT CHANNELS TO BE CONSTRUCTED FOR SMOOTH FLOW WITH NO OBSTRUCTIONS.
3. SPILLWAYS SHALL BE CONSTRUCTED BETWEEN PIPES WITH DIFFERENT INVERT ELEVATIONS PROVIDING FOR SMOOTH FLOW.
4. FINISHING FOR FUTURE CONSTRUCTIONS, SHALL BE CONSTRUCTED WITH PIPE EXTENDING 3" BEYOND EXTERIOR OF MANHOLE WALL, WITH GLUED PLUG.
5. SLOPE MANHOLE BENCH AT 2:1 SLOPE FROM MANHOLE WALL TO CHANNEL.
6. INVERT CHANNEL SHALL BE A MINIMUM OF 1/2 THE DIAMETER OF THE LARGEST PIPE OR FOUR INCHES (4") DEEP, WHICHEVER IS GREATER.

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO: WW-11
APPROVED 03-01-18	WASTEWATER FLOW PATTERNS FOR INVERT CHANNELS DETAIL	
DATE		
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

04 WW FLOW PATTERNS FOR INV. CHANNELS NTS

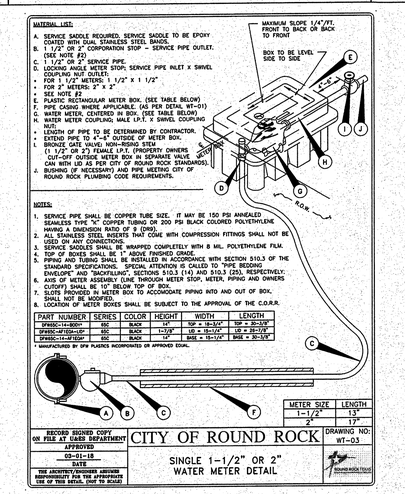


NOTE:

CONCENTRIC CONCRETE CONE SECTION SHALL BE MANUFACTURED USING 4000 TO 4500 P.S.I. CONCRETE, 28 DAY STRENGTH AND IN ACCORDANCE WITH A.S.T.M. C478, AS MANUFACTURED BY CONCRETE PRODUCTS INCORPORATED, OR APPROVED EQUAL.

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO: WW-09
APPROVED 03-01-18	PRECAST 48" CONCENTRIC CONCRETE CONE SECTION DETAIL	
DATE		
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

05 PRECAST 48 CONCENTRIC CONE SECTION NTS

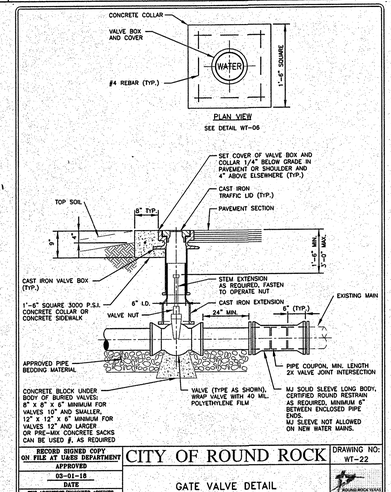


NOTES:

1. ALL PIPE TO BE SDR 26.
2. ALL FITTINGS TO BE SDR 35 SOLVENT WELD FITTINGS.

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO: WW-13
APPROVED 03-01-18	WASTEWATER SERVICE CLEAN-OUT DETAIL (PAVED SURFACE)	
DATE		
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

06 WW CLEAN-OUT FOR PAVED SURFACE NTS

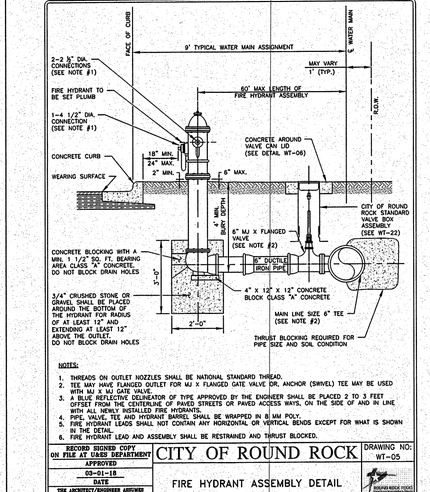


NOTES:

1. ALL PIPE TO BE SDR 26.
2. ALL FITTINGS TO BE SDR 35 SOLVENT WELD FITTINGS.

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO: WW-14
APPROVED 03-01-18	WASTEWATER SERVICE CLEAN-OUT DETAIL (NON-PAVED SURFACE)	
DATE		
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

07 WW CLEAN-OUT FOR NON-PAVED SURFACE NTS

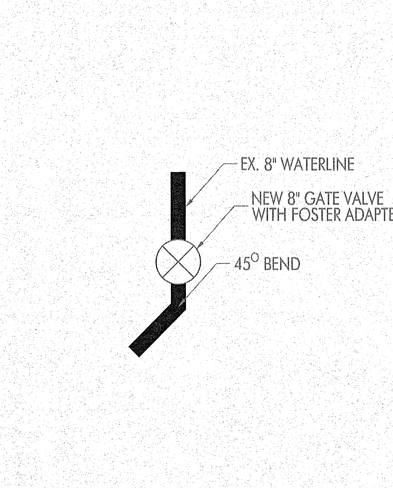


NOTES:

1. H.M.A.C. THICKNESS SHALL MATCH EXISTING ASPHALT THICKNESS AND NO LESS THAN 2".
2. THE CONTRACTOR SHALL SAW CUT, REMOVE AND REPLACE EXISTING PAVEMENT AND FLEXIBLE BASE A MINIMUM OF 6" BEYOND EITHER THE EDGE OF THE WASTEWATER LINE TRENCH OR THE POINT WHERE EXISTING PAVEMENT IS DAMAGED DUE TO TRENCHING OPERATIONS, WHICHEVER IS GREATER. FINISHED PATCH SHALL BE NEAT AND STRAIGHT.
3. INSTALLATION OF BACKFILL, SAW CUTTING AND REMOVAL OF EXISTING PAVEMENT AND SURFACE PATCH SHALL NOT BE PAID FOR SEPARATELY, COSTS FOR THESE ITEMS SHALL BE INCLUDED IN UNIT PRICE BID FOR WASTEWATER PIPE.
4. THE CONTRACTOR SHALL PROVIDE STEEL PLATES TO SPAN THE TRENCH AS NECESSARY OR TO ALLOW BACKFILL TO CURE. SUCH PLATES SHALL BE SUITABLE FOR VEHICLE PASSAGE OVER THE TRENCH AND SHALL BE SATISFACTORILY ANCHORED IN PLACE. COSTS FOR THIS ITEM SHALL BE INCLUDED IN UNIT PRICE BID FOR WASTEWATER PIPE.
5. ALL TRENCHING AND TRENCH SAFETY SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO: WW-17
APPROVED 03-01-18	WASTEWATER LINE BEDDING AND SURFACE REPAIR DETAIL (EXISTING PAVED SURFACE)	
DATE		
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

08 WW BEDDING & EXIST PAVEMENT REPAIR NTS

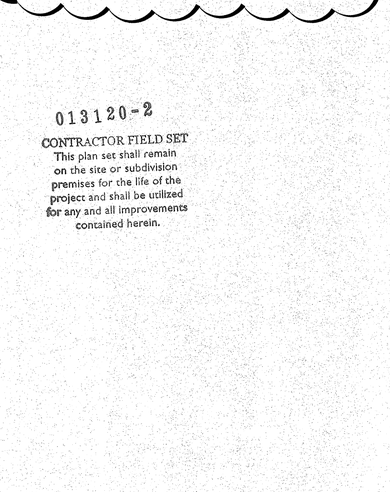


NOTE:

ALL TRENCHING AND TRENCH SAFETY SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO: WW-18
APPROVED 03-01-18	WASTEWATER LINE BEDDING AND SURFACE REPAIR DETAIL (NON-PAVED & PROPOSED PAVED SURFACE)	
DATE		
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

09 WW BEDDING & SURFACE REPAIR NTS



NOTES:

1. REMOVE ENTIRE CONE SECTION AND DEMOLISH STRUCTURE TWO FEET (2'-0") MINIMUM BELOW GROUND LEVEL.
2. IF LINE WHICH IS TO ABANDONED IN PLACE, EXTENDS UNDER EXISTING OR PROPOSED STRUCTURE, THEN THE ENTIRE LINE TO THE NEXT MANHOLE SHALL BE GROUTED OR SLURRY FILLED.
3. IF LINE IS NOT LOCATED UNDER A STRUCTURE, ABANDON EXISTING LINE IN PLACE BY PLUGGING BOTH ENDS OF LINE AND GROUTING AROUND PLUGS.
4. THE CONTRACTOR IS TO RECORD AND CERTIFY QUANTITIES OF GROUT OR SLURRY PUMPED. QUANTITIES MUST BE A MINIMUM OF 80% OF CALCULATED EXISTING VOID CAPACITY.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: WW-15
APPROVED 04-01-10	WASTEWATER MANHOLE ABANDONMENT DETAIL	
DATE		
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

10 WW MANHOLE ABANDONMENT NTS

NOTES:

1. SERVICE PIPE SHALL BE COPPER TUBE SIZE. IT MAY BE 150 PSI ANNEALED SEAMLESS TYPE "K" COPPER TUBING OR 200 PSI BLACK COLORED POLYETHYLENE HAVING A DIMENSION RATIO OF 9 (DR9).
2. ALL SERVICE SADDLES SHOWN THAT COME WITH COMPRESSION FITTINGS SHALL NOT BE USED ON COPPER SERVICE.
3. SERVICE SADDLES SHALL BE WRAPPED COMPLETELY WITH 8 MIL. POLYETHYLENE FILM.
4. TOP OF BOXES SHALL BE 1" ABOVE FINISHED GRADE.
5. PIPING AND TUBING SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 510.3 OF THE STANDARD SPECIFICATIONS. SPECIAL ATTENTION IS CALLED TO "PIPE BEDDING ENVELOPE" AND "BACKFILLING", SECTIONS 510.3 (14) AND 510.3 (25), RESPECTIVELY.
6. AXIS OF METER ASSEMBLY (LINE THROUGH METER STOP, METER, PIPING AND OWNERS CUTOFF) SHALL BE 10" BELOW TOP OF BOX.
7. SLOTS PROVIDED IN METER BOX TO ACCOMODATE PIPING INTO AND OUT OF BOX. (SEE TABLE BELOW)
8. LOCATION OF METER BOXES SHALL BE SUBJECT TO THE APPROVAL OF THE C.O.R.R.

PART NUMBER	SERIES	COLOR	HEIGHT	WIDTH	LENGTH
DP480C-14-600H*	600	BLACK	14"	TOP = 18-3/4" BTM = 20-3/8"	
DP480C-14P1330-LID*	600	BLACK	11-7/8"	LID = 13-1/16" LID = 20-1/8"	
DP480C-14-HF600*	600	BLACK	14"	BASE = 13-1/4" BASE = 20-3/8"	

* MANUFACTURED BY DFW PLASTICS INCORPORATED OR APPROVED EQUAL.

METER SIZE	LENGTH
1-1/2"	13"
2"	17"

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO: WT-03
APPROVED 03-01-18	SINGLE 1-1/2" OR 2" WATER METER DETAIL	
DATE		
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

11 SINGLE 1.5 IN OR 2 IN WATER METER NTS

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO: WT-22
APPROVED 03-01-18	GATE VALVE DETAIL	
DATE		
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

12 GATE VALVE DETAIL NTS

NOTES:

1. THREADS ON OUTLET NOZZLES SHALL BE NATIONAL STANDARD THREAD.
2. TEE MAY HAVE FLANGED OUTLET FOR MJ X FLANGED GATE VALVE DPL. ANCHOR (SWIVEL) TEE MAY BE USED WITH MJ X MJ GATE VALVE.
3. A BLUE REFLECTIVE DELINEATOR OF TYPE APPROVED BY THE ENGINEER SHALL BE PLACED 2 TO 3 FEET OFFSET FROM THE CENTERLINE OF PAVED STREETS OR PAVED ACCESS WAYS, ON THE SIDE OF AND IN LINE WITH ALL NEWLY INSTALLED FIRE HYDRANTS.
4. PIPE, FITTINGS AND HYDRANT BARREL SHALL BE WRAPPED IN 8 MM POLY.
5. FIRE HYDRANT LEADS SHALL NOT CONTAIN ANY HORIZONTAL OR VERTICAL BENDS EXCEPT FOR WHAT IS SHOWN IN THE DETAIL.
6. FIRE HYDRANT LEAD AND ASSEMBLY SHALL BE RESTRAINED AND THRUST BLOCKED.

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO: WT-05
APPROVED 03-01-18	FIRE HYDRANT ASSEMBLY DETAIL	
DATE		
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

13 FIRE HYDRANT ASSEMBLY DETAIL NTS

14 GATE VALVE TERMINATION DETAIL NTS

013120-2

CONTRACTOR FIELD SET
This plan set shall remain on the site or subdivision premises for the life of the project and shall be utilized for any and all improvements contained herein.

HAGOOD ENGINEERING ASSOCIATES
900 E. Main Street
Round Rock, TX 78664
Phone (512) 244-1546
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TBPE Registration No. F-13709

STATE OF TEXAS
TERRY R. HAGOOD
52960
REGISTERED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY TERRY R. HAGOOD, P.E. 52960
THIS DRAWING MAY NOT BE ALTERED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ENGINEER, AND THEN ONLY IN ACCORDANCE WITH THE RULES OF THE TEXAS ENGINEERING PRACTICE ACT.

JOB NO.18-021 © 2019 HEA, Inc.
DATE SIGNED: 1/15/2020
ISSUED FOR: AGENCY REVIEW

SITE DEVELOPMENT IMPROVEMENTS CHASCO YMCA ADDITION 1801 NORTH INTERSTATE HIGHWAY 35 ROUND ROCK, TX 78664

REVISIONS			
NO.	DATE	DESCRIPTION	
1	1/15/2020	ADDED MANHOLE ABANDONMENT DETAIL	

HEA PROJECT NO.18-021
ISSUED DATE: 10/31/2019

UTILITY DETAILS

SHEET NO.
C71
20
SITE PLAN NO.
SDP1904-0001

Jan 30,2020-11:36am C:\Users\tomo\AppData\Local\Temp\AcPublish_20164\18-021C71.dwg

2

As-Built

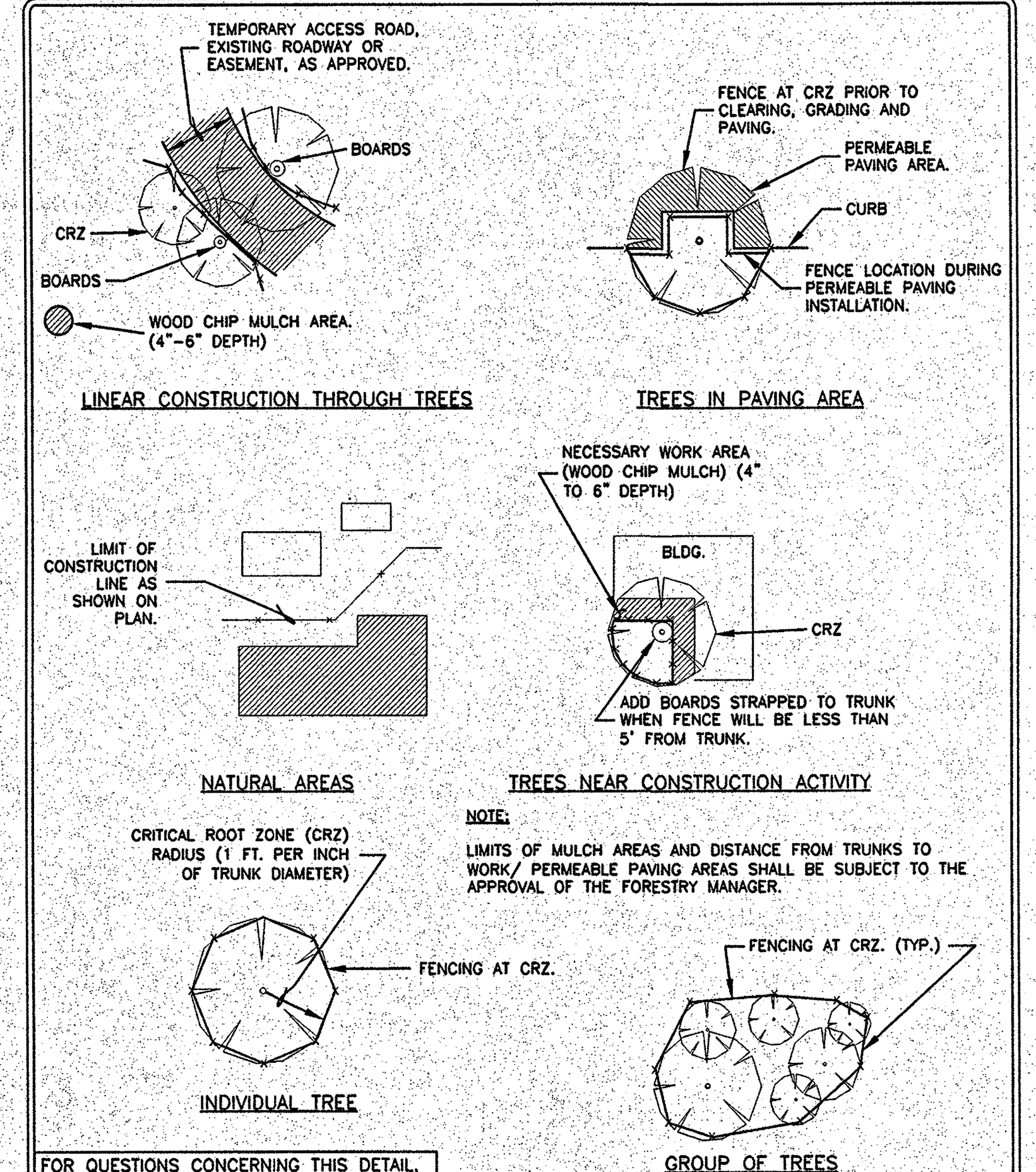
1. ALL TREES NOT LOCATED WITHIN THE LIMITS OF CONSTRUCTION AND OUTSIDE OF DISTURBED AREAS SHALL BE PRESERVED. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL TREES TO BE PRESERVED FROM HIS ACTIVITIES.
2. ALL TREES SHOWN TO BE RETAINED WITHIN THE LIMITS OF CONSTRUCTION ON THE PLANS, SHALL BE PROTECTED DURING CONSTRUCTION WITH FENCING. SEE: TREE PROTECTION TREE WELLS (EC-02), TREE PROTECTION TREE LOCATION (EC-03) AND TREE PROTECTION FENCE-CHAIN LINK (EC-04).
3. TREE PROTECTION FENCES SHALL BE ERECTED ACCORDING TO CITY STANDARDS FOR TREE PROTECTION, INCLUDING TYPES OF FENCING AND SIGNAGE.
4. TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING, OR GRADING) AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE CONSTRUCTION PROJECT.
5. EROSION AND SEDIMENTATION CONTROL BARRIERS SHALL BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILD-UP WITHIN TREE DRIPLINES.
6. FENCES SHALL COMPLETELY SURROUND THE TREE OR CLUSTERS OF TREES, LOCATED AT THE OUTERMOST LIMITS OF THE TREE BRANCHES (DRIPLINE) OR CRITICAL ROOT ZONE (CRZ), WHICHEVER IS GREATER; AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT IN ORDER TO PREVENT THE FOLLOWING:
 6A. SOIL COMPACTION IN CRZ AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIAL.
 6B. CRZ DISTURBANCES DUE TO GRADE CHANGES OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE FORESTRY MANAGER.
 6C. WOUNDS TO EXPOSED ROOTS, TRUNK, OR LIMBS BY MECHANICAL EQUIPMENT
 6D. OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CONCRETE TRUCK CLEANING, AND FIRES.
7. EXCEPTIONS TO INSTALLING TREE FENCES AT THE TREE DRIPLINES OR CRZ, WHICHEVER IS GREATER, MAY BE PERMITTED IN THE FOLLOWING CASES:
 7A. WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, OR TREE WELL;
 7B. WHERE PERMEABLE PAVING IS TO BE INSTALLED, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA.
 7C. WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE NO CLOSER THAN 6 FEET TO THE BUILDING.
 7D. WHERE THERE ARE SEVERE SPACE CONSTRAINTS DUE TO TRACT SIZE, OR OTHER SPECIAL REQUIREMENTS, CONTACT THE FORESTRY MANAGER TO DISCUSS ALTERNATIVES.
8. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE THAT IS CLOSER THAN 5 FEET TO A TREE TRUNK, THE TRUNK SHALL BE PROTECTED BY STRAPPED-ON PLANKING TO A HEIGHT OF 8 FEET (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING PROVIDED.
9. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN AREAS OF UNPROTECTED ROOT ZONES UNDER THE DRIPLINE OR CRZ, WHICHEVER IS GREATER, THOSE AREAS SHOULD BE COVERED WITH 4 INCHES OF ORGANIC MULCH TO MINIMIZE SOIL COMPACTION.
10. ALL GRADING WITHIN CRZ AREAS SHALL BE DONE BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE. PRIOR TO GRADING, RELOCATE PROTECTIVE FENCING TO 2 FEET BEHIND THE GRADE CHANGE AREA.
11. ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL AND BACKFILLED WITH GOOD QUALITY TOP SOIL WITHIN TWO DAYS. IF EXPOSED ROOT AREAS CANNOT BE BACKFILLED WITHIN 2 DAYS, AN ORGANIC MATERIAL WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION SHALL BE PLACED TO COVER THE ROOTS UNTIL BACKFILL CAN OCCUR.
12. PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE DRIPLINES, A CLEAN CUT SHALL BE MADE WITH A ROCK SAW OR SIMILAR EQUIPMENT, IN A LOCATION AND TO A DEPTH APPROVED BY THE FORESTRY MANAGER, TO MINIMIZE DAMAGE TO REMAINING ROOTS.
13. TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES WILL BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TREE CROWNS ARE TO BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON LEAVES.
14. WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, A PLASTIC VAPOR BARRIER SHALL BE PLACED BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE CRZ.
15. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
16. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN FOUR (4) INCHES SHALL BE PERMITTED WITHIN THE DRIPLINE OR CRZ OF TREES, WHICHEVER IS GREATER. NO TOPSOIL IS PERMITTED ON ROOT FLARES OF ANY TREE.
17. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC, AND CONSTRUCTION EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS. ALL PRUNING MUST BE DONE ACCORDING TO CITY STANDARDS AND AS OUTLINED IN LITERATURE PROVIDED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA PRUNING TECHNIQUES).
18. ALL OAK TREE CUTS, INTENTIONAL OR UNINTENTIONAL, SHALL BE SEALED WITH AN APPROVED PRUNING SEALER IMMEDIATELY (WITHIN 10 MINUTES). TREE PAINT MUST BE KEPT ON SITE AT ALL TIMES.
19. THE FORESTRY MANAGER HAS THE AUTHORITY TO REQUIRE ADDITIONAL TREE PROTECTION BEFORE OR DURING CONSTRUCTION.
20. TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED. REFER TO THE CITY OF ROUND ROCK TREE TECHNICAL MANUAL FOR APPROPRIATE REMOVAL METHODS.
21. PRIOR TO CONSTRUCTION, ALL LOWER TREE LIMBS OVER ROADWAYS MUST BE PRUNED TO A HEIGHT OF 14 FEET USING THE TECHNIQUES DESCRIBED IN THE CITY OF ROUND ROCK TREE TECHNICAL MANUAL.
22. DEVIATIONS FROM THE ABOVE REQUIREMENTS AND NEGLIGENT DAMAGE TO TREES MAY BE CONSIDERED AS ORDINANCE VIOLATIONS.

FOR QUESTIONS CONCERNING THIS DETAIL, PLEASE CONTACT THE FORESTRY MANAGER.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS | APPROVED | 03-25-11 | DATE | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)

CITY OF ROUND ROCK — DRAWING NO: EC-01 — TREE PROTECTION NOTES

01 TREE PROTECTION NOTES — NTS



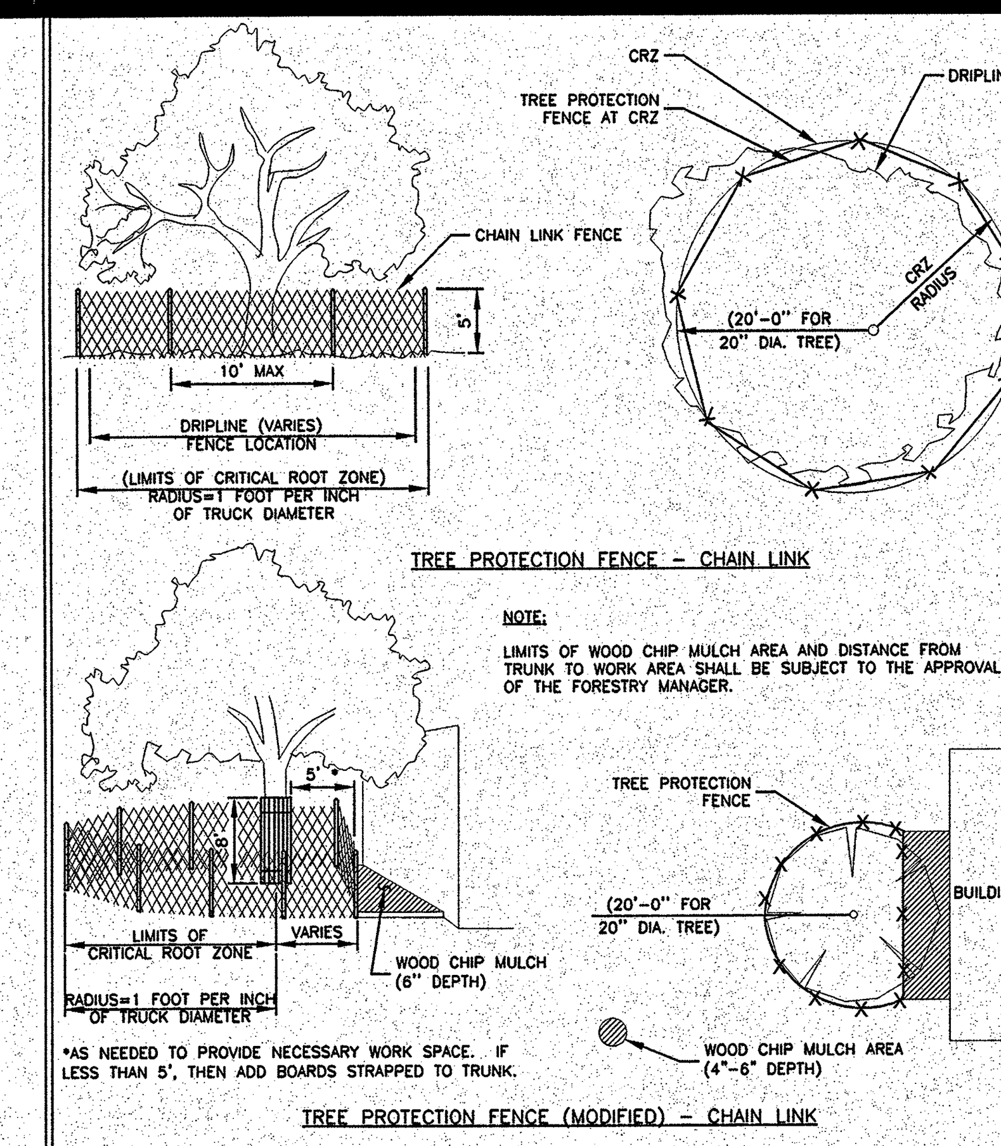
NOTE: LIMITS OF MULCH AREAS AND DISTANCE FROM TRUNKS TO WORK/ PERMEABLE PAVING AREAS SHALL BE SUBJECT TO THE APPROVAL OF THE FORESTRY MANAGER.

FOR QUESTIONS CONCERNING THIS DETAIL, PLEASE CONTACT THE FORESTRY MANAGER.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS | APPROVED | 03-25-11 | DATE | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)

CITY OF ROUND ROCK — DRAWING NO: EC-03 — TREE PROTECTION FENCE LOCATIONS

02 TREE PROTECTION FENCE LOCATIONS — NTS



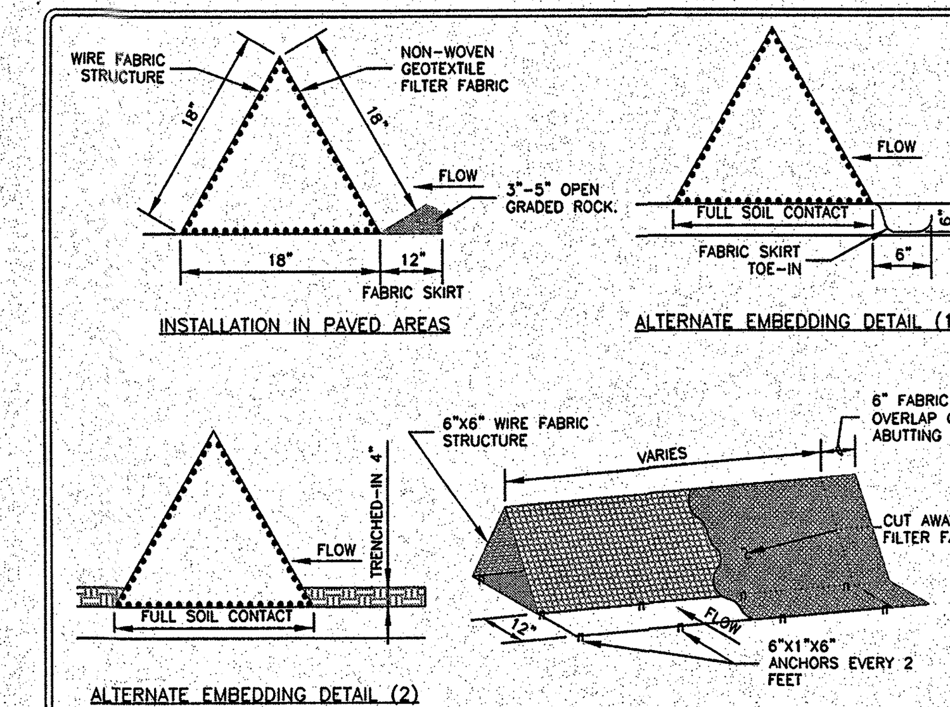
NOTE: LIMITS OF WOOD CHIP MULCH AREA AND DISTANCE FROM TRUNK TO WORK AREA SHALL BE SUBJECT TO THE APPROVAL OF THE FORESTRY MANAGER.

FOR QUESTIONS CONCERNING THIS DETAIL, PLEASE CONTACT THE FORESTRY MANAGER.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS | APPROVED | 03-25-11 | DATE | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)

CITY OF ROUND ROCK — DRAWING NO: EC-04 — TREE PROTECTION FENCE CHAIN LINK

03 TREE PROTECTION FENCE CHAIN LINK — NTS

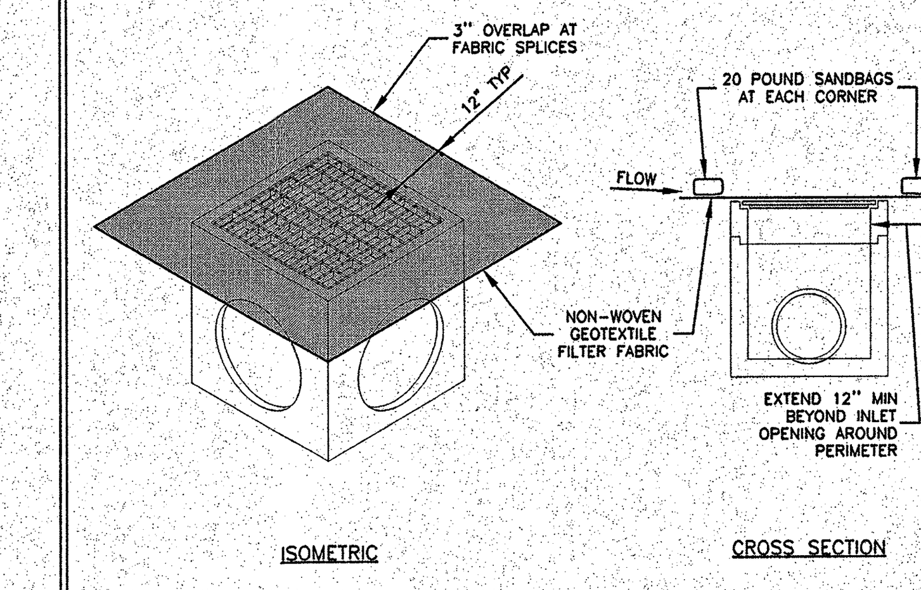


NOTES:
1. DIKES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING.
2. FABRIC COVER AND SKIRT SHALL BE A CONTINUOUS WRAPPING OF GEOTEXTILE. THE SKIRT SHALL BE A CONTINUOUS EXTENSION OF THE UPSTREAM FACE FABRIC.
3. DIKES AND SKIRT SHALL BE SECURELY ANCHORED IN PLACE WITH WIRE STAPLES AT 2' INTERVALS ON BOTH EDGES AND SKIRT OR WITH 3/8" DIAMETER REBAR WITH TEE ENDS.
4. FILTER MATERIAL SHALL BE LAPPED OVER ENDS 6" TO COVER DIKE-TO-DIKE JOINTS. JOINTS SHALL BE FASTENED WITH GALVANIZED SHOAT RINGS.
5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS REQUIRED.
6. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 4" AND DISPOSED OF IN A MANNER WHICH WILL NOT CAUSE ADDITIONAL SILTATION.
7. AFTER THE DEVELOPMENT SITE IS COMPLETELY STABILIZED, THE DIKES AND ANY REMAINING SILT SHALL BE REMOVED. SILT SHALL BE DISPOSED OF AS INDICATED IN NOTE #6 ABOVE.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS | APPROVED | 03-25-11 | DATE | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)

CITY OF ROUND ROCK — DRAWING NO: EC-11 — TRIANGULAR SEDIMENT FILTER DIKE DETAIL

04 TRIANGULAR SEDIMENT FILTER DIKE DETAIL — NTS

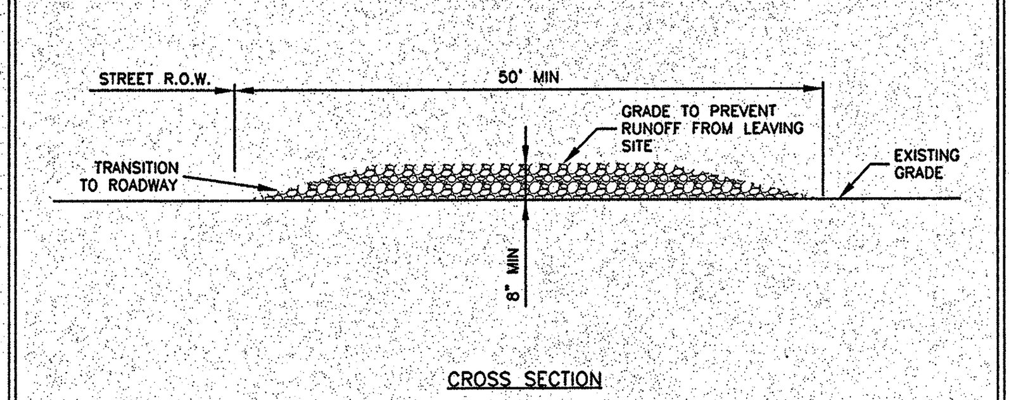


NOTES:
1. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2".
2. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY CLEAN THE INLET PROTECTION IF EXCESSIVE PONDING OCCURS.
3. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS | APPROVED | 03-25-11 | DATE | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)

CITY OF ROUND ROCK — DRAWING NO: EC-15 — AREA INLET PROTECTION DETAIL

05 AREA INLET PROTECTION DETAIL — NTS

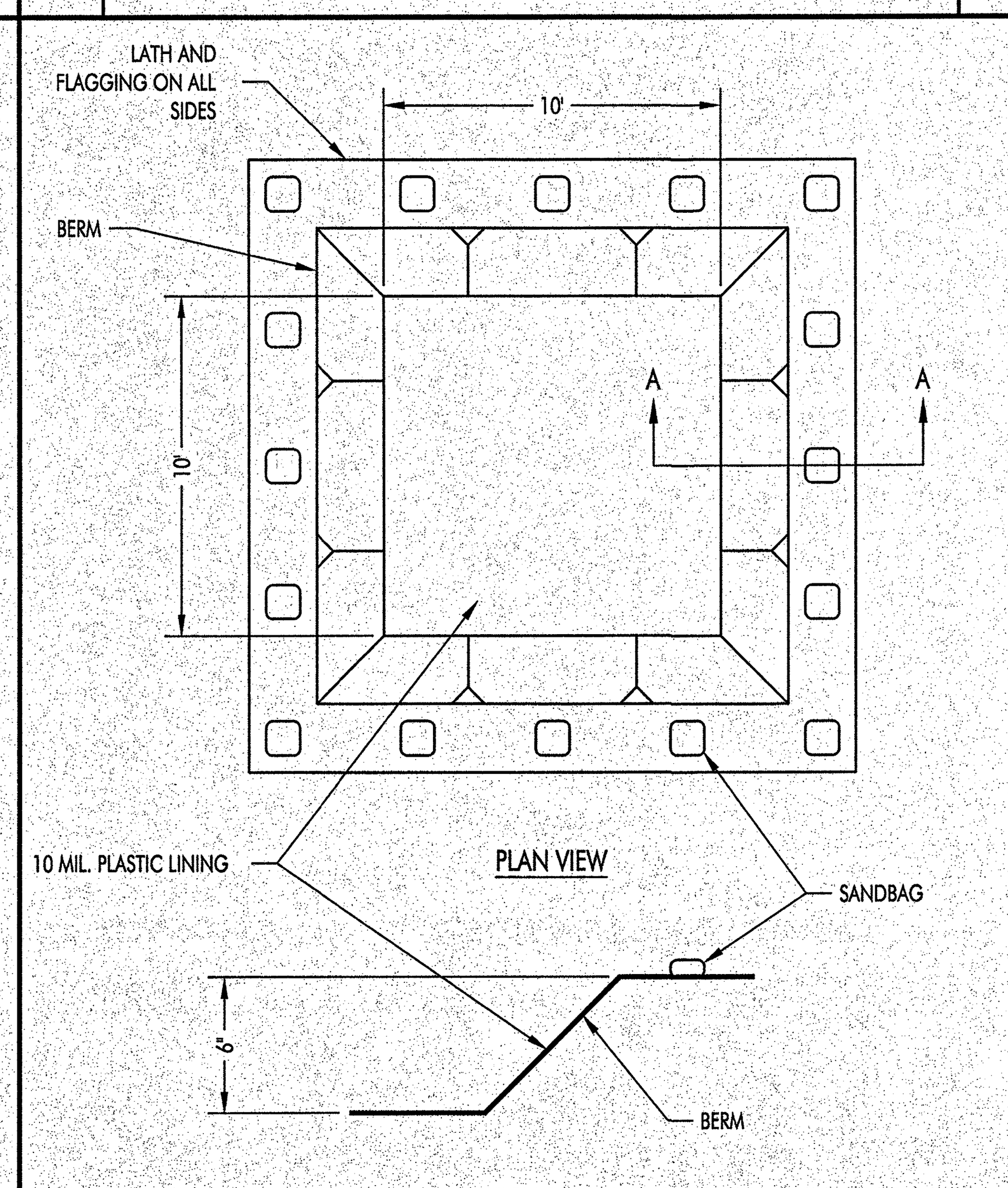


NOTES:
1. STONE SIZE SHALL BE 3" - 8" OPEN GRADED ROCK.
2. THICKNESS OF CRUSHED STONE PAD TO BE NOT LESS THAN 8".
3. LENGTH SHALL BE A MINIMUM OF 50' FROM ACTUAL ROADWAY, AND WIDTH NOT LESS THAN FULL WIDTH OF INGRESS/EGRESS.
4. ENTRANCE SHALL BE PROPERLY GRADED TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
5. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY BY CONTRACTOR.
6. AS NECESSARY, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.

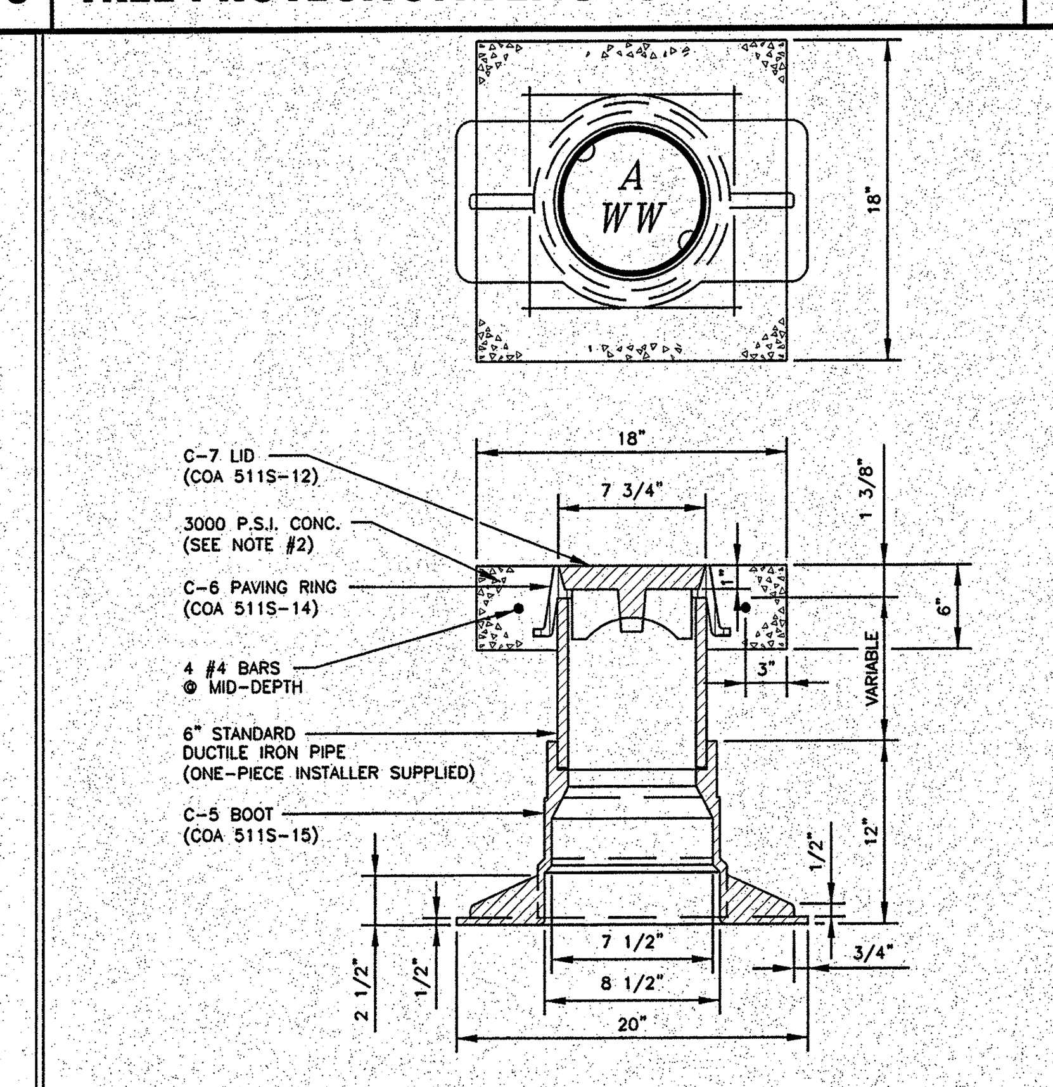
RECORD SIGNED COPY ON FILE AT PUBLIC WORKS | APPROVED | 03-25-11 | DATE | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)

CITY OF ROUND ROCK — DRAWING NO: EC-09 — STABILIZED CONSTRUCTION ENTRANCE DETAIL

06 STABILIZED CONSTRUCTION ENTRANCE — NTS



07 CONCRETE WASHOUT DETAIL — NTS

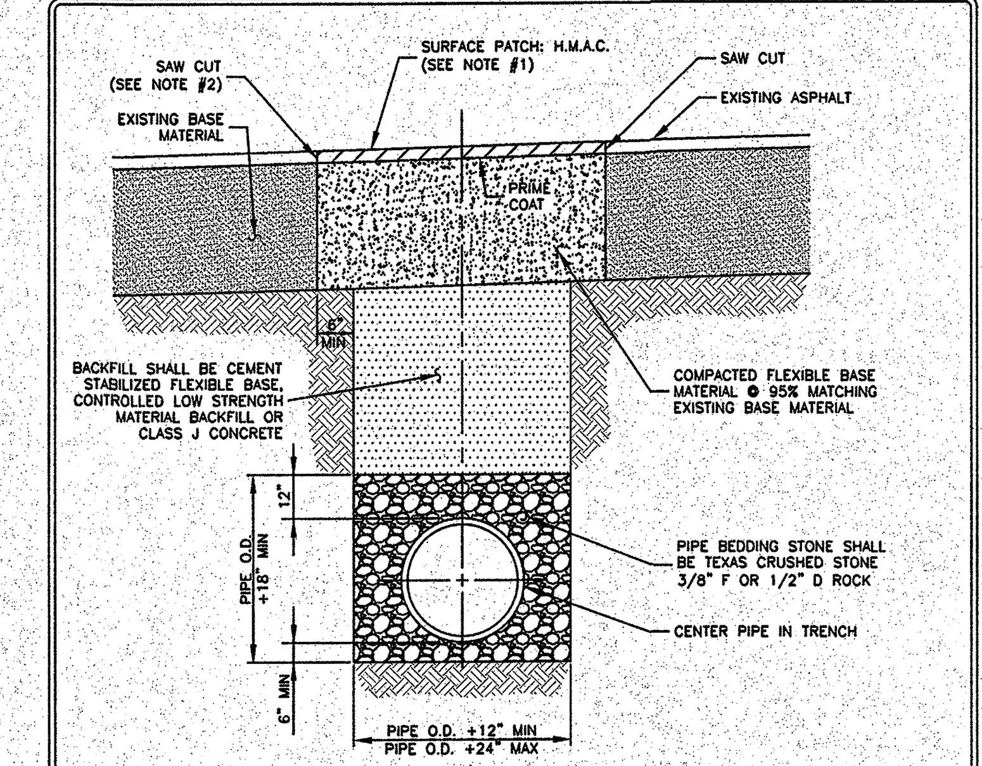


NOTES:
1. NUMBERED CASTINGS STANDARDS SHOWN IN PARENTHESES ARE REFERENCES TO THE CITY OF AUSTIN STANDARDS CRITERIA MANUAL.
2. DELETE CONCRETE AND REBAR WHEN VALVE IS WITHIN PAVED STREET.

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT | APPROVED | 03-01-18 | DATE | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)

CITY OF ROUND ROCK — DRAWING NO: WT-06 — VALVE BOX ASSEMBLY DETAIL

08 VALVE BOX ASSEMBLY — NTS



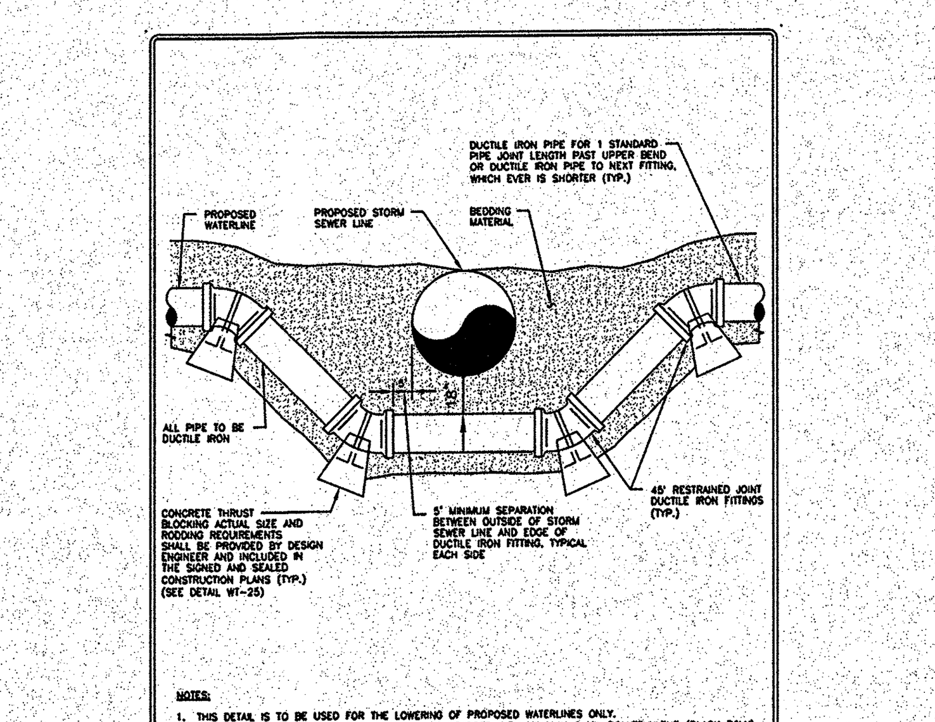
NOTES:
1. H.M.A.C. THICKNESS SHALL MATCH EXISTING ASPHALT THICKNESS AND NO LESS THAN 2".
2. THE CONTRACTOR SHALL SAW CUT, REMOVE AND REPLACE EXISTING PAVEMENT AND FLEXIBLE BASE A MINIMUM OF 6" BEYOND EITHER THE EDGE OF THE WATERLINE TRENCH OR THE POINT WHERE EXISTING PAVEMENT IS DAMAGED DUE TO TRENCHING OPERATIONS, WHICHEVER IS GREATER. FINISHED PATCH SHALL BE NEAT AND UNIFORM.
3. INSTALLATION OF BACKFILL, SAW CUTTING AND REMOVAL OF EXISTING PAVEMENT, AND SURFACE PATCH SHALL NOT BE PAID FOR SEPARATELY. COSTS FOR THESE ITEMS SHALL BE INCLUDED IN UNIT PRICE BID FOR WATERLINE PIPE.
4. THE CONTRACTOR SHALL PROVIDE STEEL PLATES TO SPAN THE TRENCH AS NECESSARY OR TO ALLOW BACKFILL TO CURE. SUCH PLATES SHALL BE SUITABLE FOR VEHICLE PASSAGE OVER THE TRENCH AND SHALL BE SATISFACTORILY ANCHORED IN PLACE. COSTS FOR THIS ITEM SHALL BE INCLUDED IN UNIT PRICE BID FOR WATERLINE PIPE. 5. ALL TRENCHING AND TRENCH SAFETY SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS | APPROVED | 04-01-10 | DATE | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)

CITY OF ROUND ROCK — DRAWING NO: WT-07 — WATERLINE BEDDING AND PAVEMENT REPAIR DETAIL (EXISTING PAVED SURFACE)

09 WATERLINE BEDDING & PAVEMENT REPAIR — NTS

CONTRACTOR FIELD SET
This plan set shall remain on the site or subdivision premises for the life of the project and shall be utilized for any and all improvements contained herein.

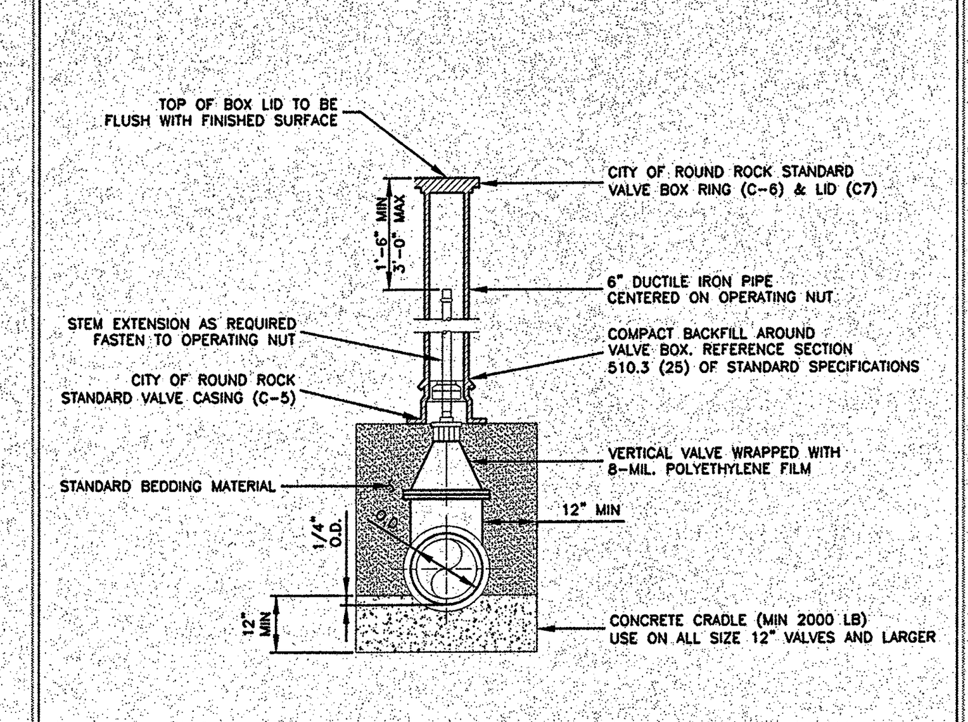


NOTES:
1. THIS DETAIL IS TO BE USED FOR THE LOWERING OF PROPOSED WATERLINES ONLY.
2. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE WRAPPED WITH MINIMUM 8 MIL POLYETHYLENE (BLACK POLY) AND OPEN ENDS/SEAMS SEALED WITH DUCT TAPE.
3. ALL FITTINGS SHALL HAVE RESTRAINED JOINTS AND BLOCKED WITH CONCRETE BLOCKING.
4. CASING PIPE SHALL BE PROVIDED FOR ALL PROPOSED WATERLINES INSTALLED UNDER STORM SEWER LINES 36" DIAMETER AND LARGER.

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT | APPROVED | 03-01-18 | DATE | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)

CITY OF ROUND ROCK — DRAWING NO: WT-09 — WATERLINE AND STORM SEWER LINE CROSSING DETAIL (TYPE 1)

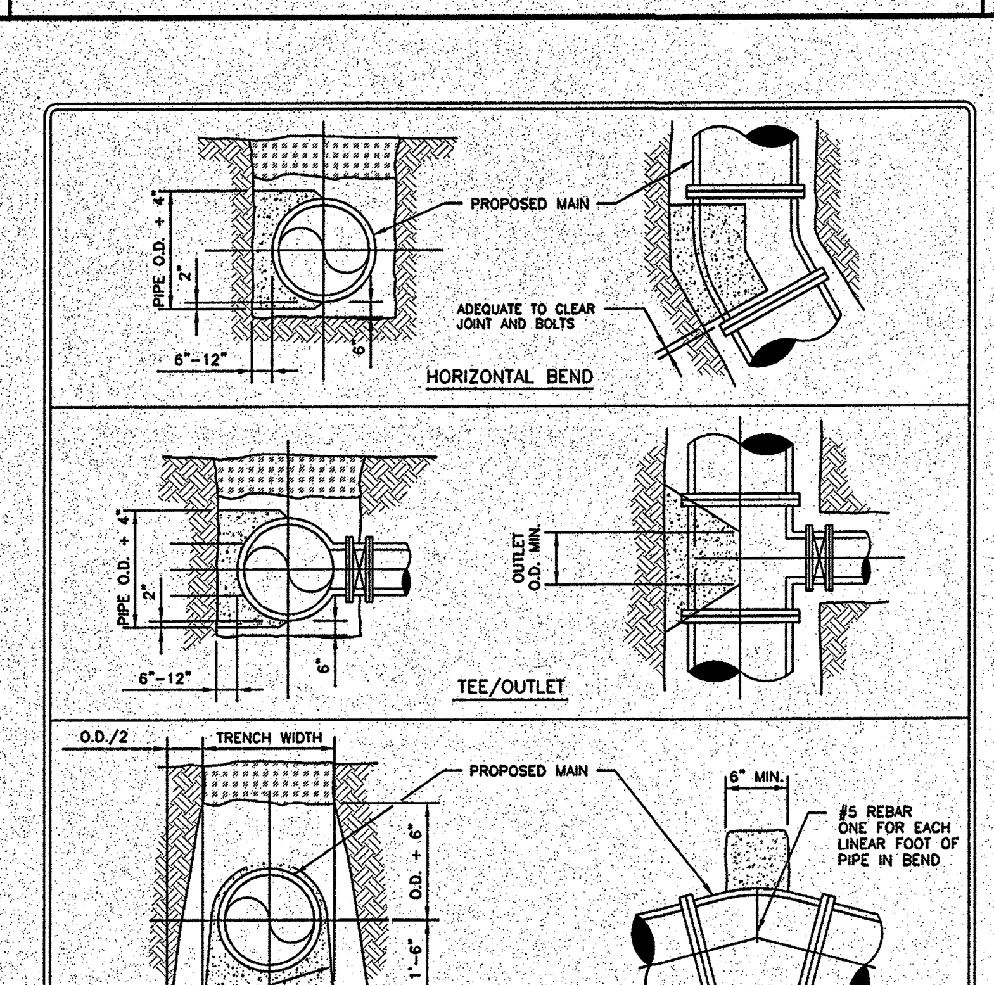
10 WATER AND STORM CROSSING TYPE 1 — NTS



RECORD SIGNED COPY ON FILE AT PUBLIC WORKS | APPROVED | 04-01-10 | DATE | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)

CITY OF ROUND ROCK — VERTICAL VALVE INSTALLATION DETAIL

11 VERTICAL VALVE — NTS



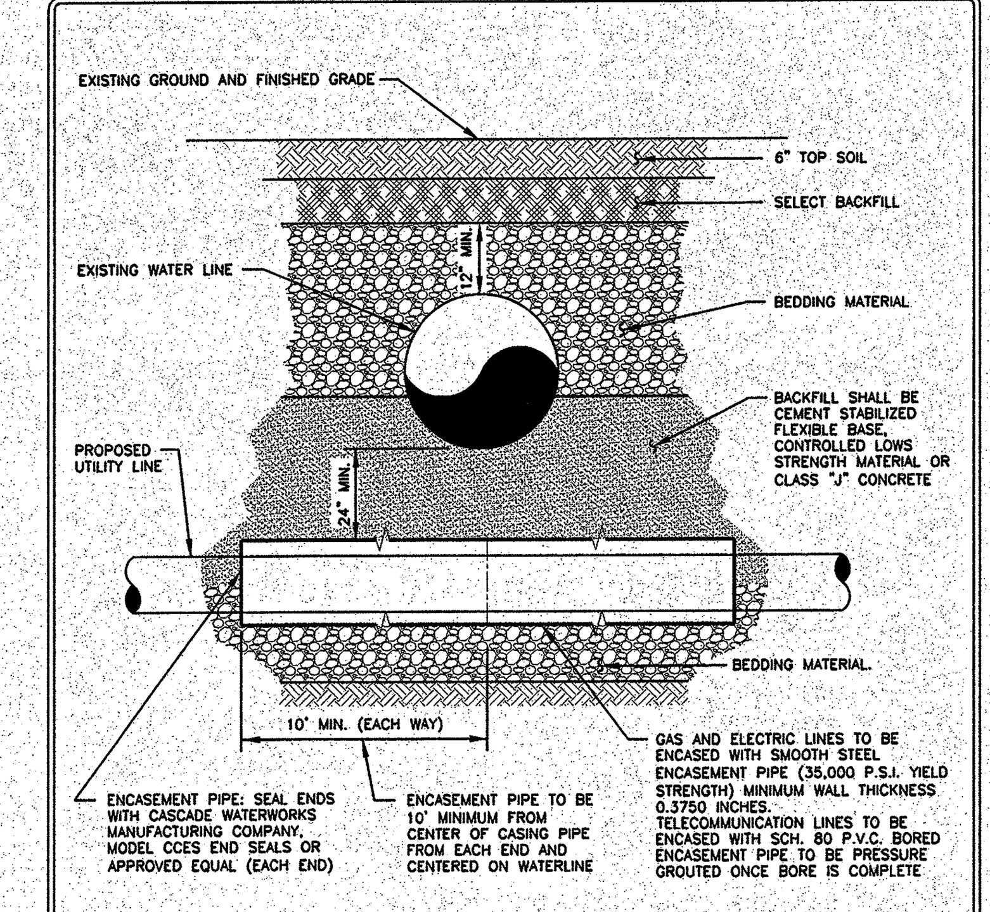
THRUST BLOCK DESIGN AS FOLLOWS:
A. PRESSURE OF 150 P.S.I. (ACTUAL IF HIGHER) + 50% SURGE ALLOWANCE
B. MAXIMUM SOIL BEARING:
C. ALL PIPE & FITTING TO BE WRAPPED WITH 40 PLASTIC MIL.

SOIL TYPE	PRESSURE
LIMESTONE	4000 LBS./SQ. FT.
UNDISTURBED SOIL, CALICHE	2000 LBS./SQ. FT.
LOOSE OR SPONGY SOIL	1500 LBS./SQ. FT.

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT | APPROVED | 03-01-18 | DATE | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)

CITY OF ROUND ROCK — DRAWING NO: WT-25 — THRUST BLOCK DETAIL

12 THRUST BLOCK — NTS

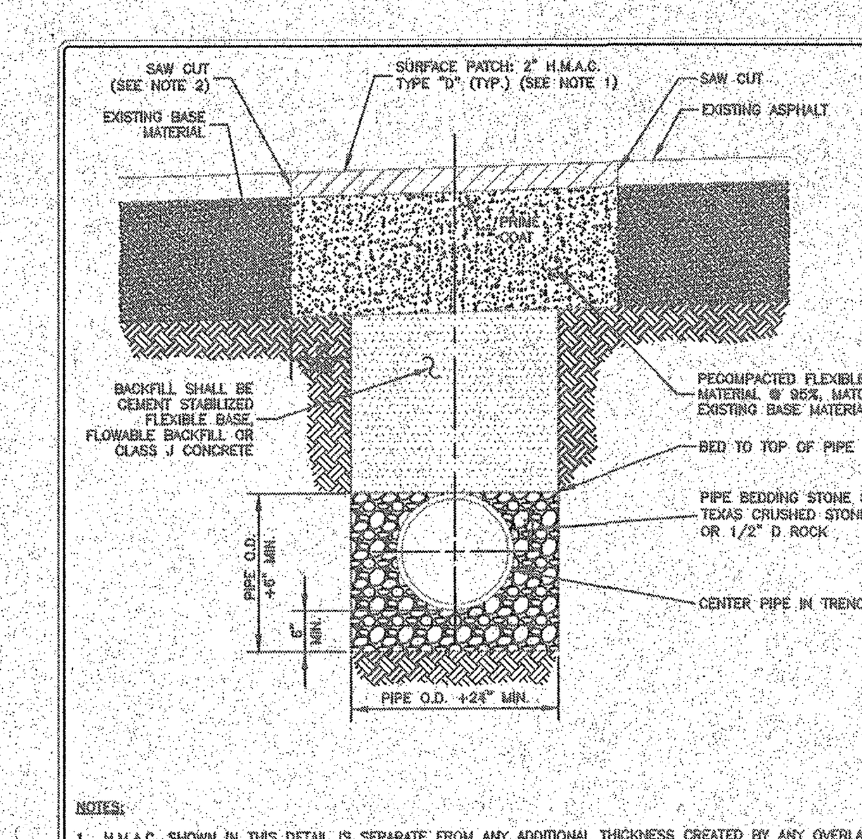


NOTES:
1. A CITY OF ROUND ROCK REPRESENTATIVE SHALL BE PRESENT DURING ANY EXCAVATION NEAR THE CITY'S WATER LINE. (48 HOUR NOTICE IS REQUIRED)
2. A CITY OF ROUND ROCK INSPECTOR SHALL INSPECT AND APPROVE CROSSING BEFORE AND AS IT IS BEING BACKFILLED PER THIS DETAIL.
3. TOP 6" OF TRENCH BACKFILL SHALL BE TOP SOIL, UNLESS PROPERTY OWNER REQUIRES SOMETHING DIFFERENT.
4. DRY UTILITIES TO BE ENCASED UNDER EXISTING WATERLINES WITH A MINIMUM SEPARATION OF 24" BETWEEN ENCASEMENT PIPE AND THE WATERLINE.

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT | APPROVED | 03-01-18 | DATE | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)

CITY OF ROUND ROCK — DRAWING NO: WT-26 — WATERLINE AND DRY UTILITY LINE CROSSING DETAIL

13 WATER LINE & GAS LINE CROSSING — NTS

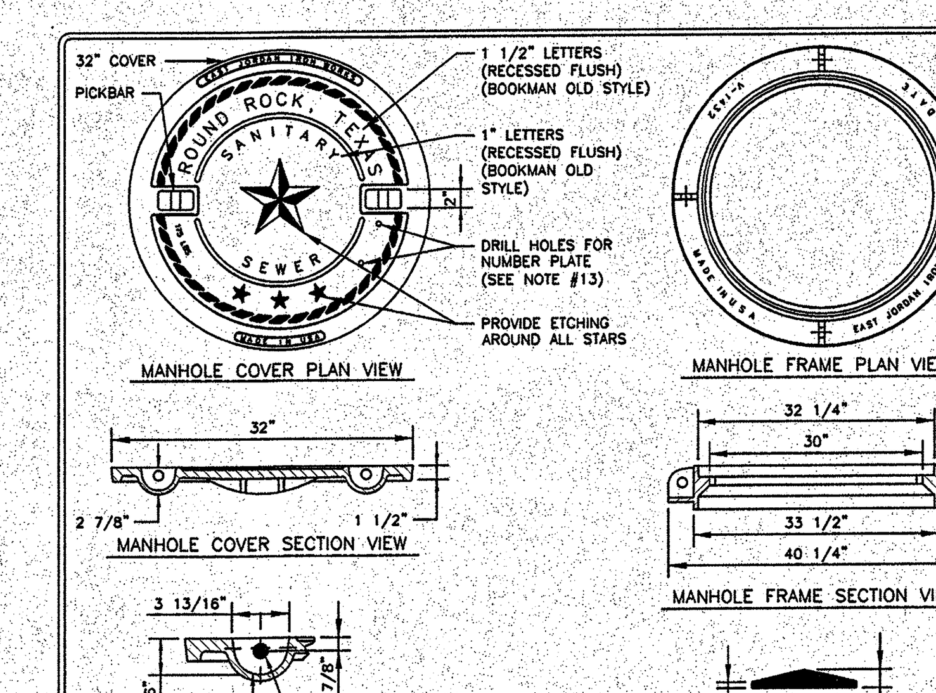


NOTES:
1. H.M.A.C. SHOWN IN THIS DETAIL IS SEPARATE FROM ANY ADDITIONAL THICKNESS CREATED BY ANY OVERLAY ITEM IN CONTRACT.
2. THE CONTRACTOR SHALL SAW CUT, REMOVE AND REPLACE EXISTING PAVEMENT AND FLEXIBLE BASE A MINIMUM OF 6" BEYOND EITHER THE EDGE OF THE STORM SEWER TRENCH OR THE POINT WHERE EXISTING PAVEMENT IS DAMAGED DUE TO TRENCHING OPERATIONS, WHICHEVER IS GREATER.
3. INSTALLATION OF BACKFILL, SAW CUTTING AND REMOVAL OF EXISTING PAVEMENT AND SURFACE PATCH, SHALL NOT BE PAID FOR SEPARATELY. COSTS FOR THESE ITEMS SHALL BE INCLUDED IN UNIT PRICE BIDS FOR STORM SEWER PIPE.
4. THE CONTRACTOR SHALL PROVIDE STEEL PLATES TO SPAN THE TRENCH AS NECESSARY OR TO ALLOW BACKFILL TO CURE. SUCH PLATES SHALL BE SUITABLE FOR VEHICLE PASSAGE OVER THE TRENCH AND SHALL BE SATISFACTORILY ANCHORED IN PLACE. COSTS FOR THIS ITEM SHALL BE INCLUDED IN UNIT PRICE BIDS FOR STORM SEWER PIPE.
5. ALL TRENCHING AND TRENCH SAFETY SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

APPROVED | 04-01-10 | DATE | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)

CITY OF ROUND ROCK — STORM SEWER LINE BEDDING DETAIL (EXISTING PAVED SURFACE)

14 STORM SEWER BEDDING (EXISTING) — NTS



NOTES:
1. COVER AND FRAME SHALL COMPLY WITH STANDARD SPECIFICATIONS FOR DRAINAGE, SEWER, UTILITY AND RELATED CASTINGS: AASHTO DESIGNATION M306-04.
2. MANHOLE COVER SHALL BE MODEL NUMBER: V-1432-3 (PRODUCT NUMBER: 41432059), AS MANUFACTURED BY EAST JORDAN IRON WORKS INCORPORATED, OR APPROVED EQUAL.
3. MANHOLE FRAME SHALL BE MODEL NUMBER: V-1432 (PRODUCT NUMBER: 41432010), AS MANUFACTURED BY EAST JORDAN IRON WORKS INCORPORATED, OR APPROVED EQUAL.
4. MANHOLE COVER AND FRAME ASSEMBLY, IF ORDERED AS A SET, SHALL BE MODEL NUMBER: V-1432 (PRODUCT NUMBER: 41432089), AS MANUFACTURED BY EAST JORDAN IRON WORKS INCORPORATED, OR APPROVED EQUAL.
5. ALL CORNERS AND EDGES SHALL HAVE A 1/16" MINIMUM AND 1/8" MAXIMUM RADIUS.
6. MANHOLE COVERS SHALL BE CAST WITH TWO 1" DIAMETER STEEL PICKBARS.
7. MANHOLE COVER WEIGHT SHALL BE 175 LBS. FOR DUCTILE IRON. WEIGHT SHALL BE CAST ON BOTH TOP AND BOTTOM OF COVER.
8. MANUFACTURER SHALL CERTIFY THAT EACH MANHOLE COVER MEETS HS-20 LOADING.
9. FILLETS SHALL BE 1/4" RADIUS UNLESS OTHERWISE SPECIFIED.
10. MANUFACTURER SHALL REMOVE EXCESS IRON AND MACHINE FINISH SEATING SURFACES TO NOTED DIMENSIONS.
11. COVER SHALL BE DIPPED IN A WATER-BASED ASPHALTIC COATING, PRIOR TO SHIPMENT FROM FOUNDRY.
12. MANUFACTURER SHALL DRILL 2-3/16" X 1/2" DEEP HOLES FOR A MANHOLE NUMBER PLATE TO BE PROVIDED BY THE CITY OF ROUND ROCK. THE TOP HOLE SHALL BE DRILLED 1" O.C. FROM THE BOTTOM OF THE PICKBAR AND THE BOTTOM HOLE SHALL BE DRILLED 4" O.C. FROM THE TOP HOLE.

RECORD SIGNED COPY ON FILE AT U&ES DEPARTMENT | APPROVED | 03-01-18 | DATE | THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)

CITY OF ROUND ROCK — DRAWING NO: WW-08 — NON-BOLTED WASTEWATER MANHOLE COVER AND FRAME DETAIL

15 NON-BOLTED MANHOLE COVER & FRAME — NTS

HAGOOD ENGINEERING ASSOCIATES
900 E. Main Street
Round Rock, TX 78664
Phone (512) 244-1546
Fax (512) 244-1010
www.heaeng.com
TBPE Registration No. F-12709

STATE OF TEXAS — TERRY R. HAGOOD — 52960 — REGISTERED PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY TERRY R. HAGOOD, P.E. 52960
THIS DRAWING MAY NOT BE MODIFIED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ENGINEER, AND THEN ONLY IN ACCORDANCE WITH THE RULES OF THE TEXAS ENGINEERING PRACTICE ACT.

DATE SIGNED: 10/04/2019
ISSUED FOR: AGENCY REVIEW

SITE DEVELOPMENT IMPROVEMENTS
CHASCO YMCA ADDITION
1801 NORTH INTERSTATE HIGHWAY 35
ROUND ROCK, TX 78664

NO.	DATE	DESCRIPTION	REVISIONS

HEA PROJECT NO.18-021
ISSUED DATE: 10/04/2019

ESC DETAILS

SHEET NO.
C72
21
SITE PLAN NO. SDP1904-0001

Oct 07,2019-8:57am Z:\HEA\HEA Projects\Projects 18-000\18-021 Chasco YMCA\CAD Files\Civil\SD\20 C72.dwg

CORR LANDSCAPE CALCULATION CHART

		# Spaces		Required	Provided
1	**INTERIOR PARKING TREE REQUIREMENT** 1 Large tree / 10 Spaces	63		6	9

		LF /	Factor	Required FTP	Provided
2	**FOUNDATION TREATMENT PLANTING - NON-INDUSTRIAL ZONING** **Foundation Treatment Points:** (Determined by category) **Category 1** - Building with three or more single parking bays in the streetyard **Category 2** - Building with one or two single parking bays in the streetyard **Category 3** - Building with no parking in the streetyard		4	0	
			3	0	
		112	2	224	2,678

Landscape Feature	Points		Provided	Points
Specimen Tree	60			0
Medium/Large Tree	30			0
Ornamental Tree	15			0
Large Shrub	5		60	300
Small Shrub	3		75	225
Groundcover Planting	2	(per SF)		0
Groundcover Decorative	1	(per SF)		0
Perennials | Annuals	0.5	(per SF)		0
Permanently Irrigated Container Plantings	5	(per SF)		0
Decorative Paving	2.5	(per SF)	861	2,153
Shade Structure	30			0
Shade Structure with Vines	33			0
Site Furniture	30			0
Trash Receptacle	20			0
Bike Rack	20			0
Sum Total				2,678

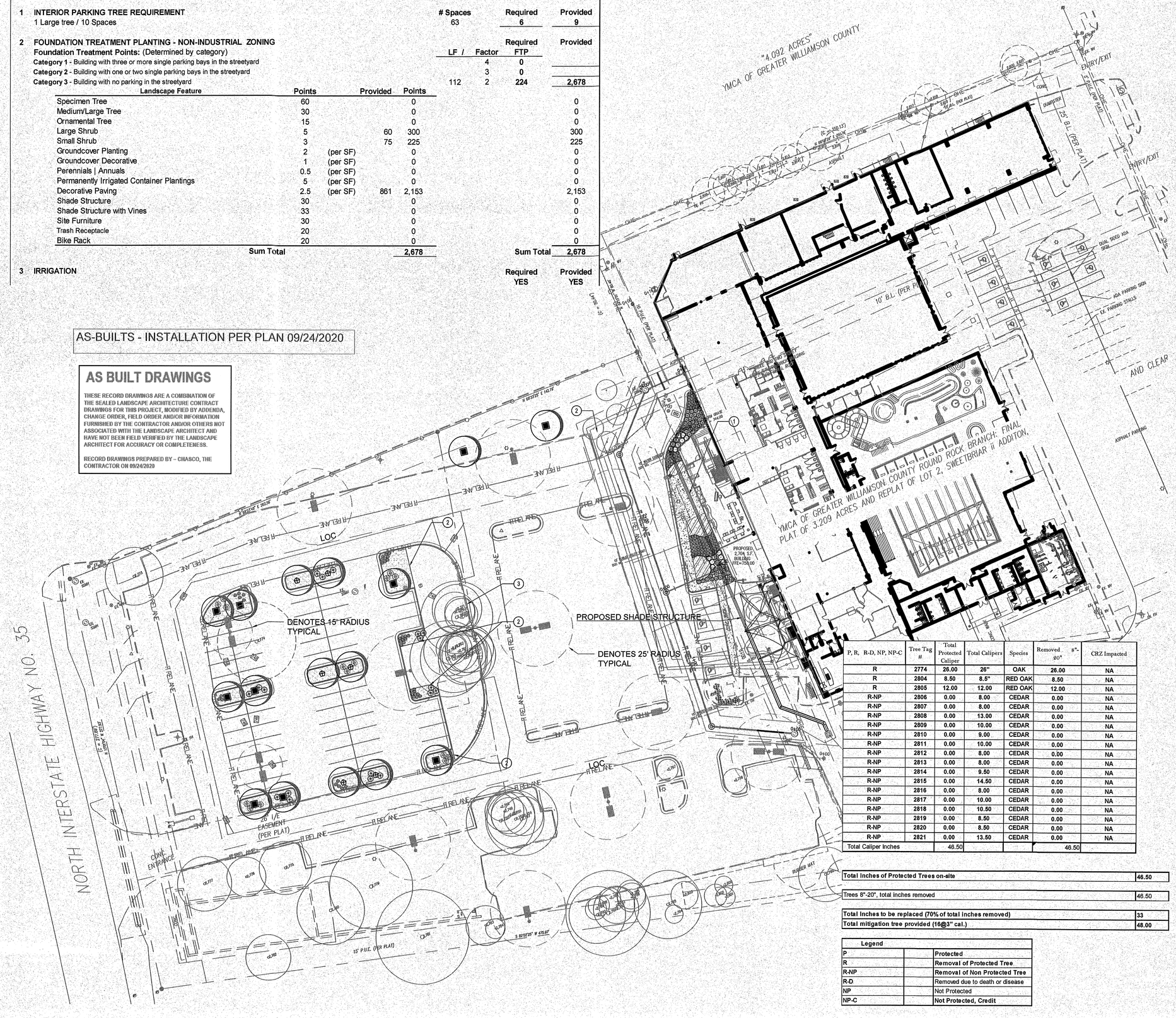
	Required	Provided
Sum Total		2,678
3 IRRIGATION	**Required**	**Provided**
	YES	YES

AS-BUILTS - INSTALLATION PER PLAN 09/24/2020

AS BUILT DRAWINGS

THESE RECORD DRAWINGS ARE A COMBINATION OF THE SEALED LANDSCAPE ARCHITECTURE CONTRACT DRAWINGS FOR THIS PROJECT, MODIFIED BY ADDENDA, CHANGE ORDER, FIELD ORDER AND/OR INFORMATION FURNISHED BY THE CONTRACTOR AND/OR OTHERS NOT ASSOCIATED WITH THE LANDSCAPE ARCHITECT AND HAVE NOT BEEN FIELD VERIFIED BY THE LANDSCAPE ARCHITECT FOR ACCURACY OR COMPLETENESS.

RECORD DRAWINGS PREPARED BY – CHASCO, THE CONTRACTOR ON 09/24/2020



P, R, R-D, NP, NP-C	Tree Tag #	Total Protected Caliper	Total Calipers	Species	Removed 8"-20"	CRZ Impacted
R	2774	26.00	26"	OAK	26.00	NA
R	2804	8.50	8.5"	RED OAK	8.50	NA
R	2805	12.00	12.00	RED OAK	12.00	NA
R-NP	2806	0.00	8.00	CEDAR	0.00	NA
R-NP	2807	0.00	8.00	CEDAR	0.00	NA
R-NP	2808	0.00	13.00	CEDAR	0.00	NA
R-NP	2809	0.00	10.00	CEDAR	0.00	NA
R-NP	2810	0.00	9.00	CEDAR	0.00	NA
R-NP	2811	0.00	10.00	CEDAR	0.00	NA
R-NP	2812	0.00	8.00	CEDAR	0.00	NA
R-NP	2813	0.00	8.00	CEDAR	0.00	NA
R-NP	2814	0.00	9.50	CEDAR	0.00	NA
R-NP	2815	0.00	14.50	CEDAR	0.00	NA
R-NP	2816	0.00	8.00	CEDAR	0.00	NA
R-NP	2817	0.00	10.00	CEDAR	0.00	NA
R-NP	2818	0.00	10.50	CEDAR	0.00	NA
R-NP	2819	0.00	8.50	CEDAR	0.00	NA
R-NP	2820	0.00	8.50	CEDAR	0.00	NA
R-NP	2821	0.00	13.50	CEDAR	0.00	NA
Total Caliper Inches		46.50			46.50	

Total Inches of Protected Trees on-site	**46.50**
Trees 8"-20", total inches removed	46.50
Total Inches to be replaced (70% of total inches removed)	**33**
Total mitigation tree provided (16@3" cal.)	**48.00**

Legend		
P		**Protected**
R		**Removal of Protected Tree**
R-NP		**Removal of Non Protected Tree**
R-D		Removed due to death or disease
NP		Not Protected
NP-C		**Not Protected, Credit**

PLANT SCHEDULE

TREES	QTY	COMMON NAME / BOTANICAL NAME	CAL	DESCRIPTION
	6	CEDAR ELM / ULMUS CRASSIFOLIA	65 GAL 3"CAL	10'-12' H X 5'-6' W, 6' TRUNK HT.
	10	MONTERREY OAK / QUERCUS POPLYMORPHA	65 GAL 3"CAL	10'-12' H X 5'-6' W, 6' TRUNK HT.
SHRUBS	**QTY**	**COMMON NAME / BOTANICAL NAME**	**DESCRIPTION**	**SPACING**
	10	BIG MUHLY / MUHLENBERGIA LINDHEIMERI	5 GAL PER TNLA STANDARDS & SPECS	36" O.C.
	18	HAMELN DWARF FOUNTAIN GRASS / PENNISETUM ALOPECUROIDES 'HAMELN'	1 GAL PER TNLA STANDARDS & SPECS	36" O.C.
	147	MEXICAN FEATHERGRASS / STIPA TENUISSIMA	1 GAL PER TNLA STANDARDS & SPECS	36" O.C.
	15	SOFTLFEAF YUCCA / YUCCA RECURVIFOLIA	5 GAL PER TNLA STANDARDS & SPECS	36" O.C.
	17	TEXAS SOTOL / DASYLIRION TEXANUM	5 GAL PER TNLA STANDARDS & SPECS	36" O.C.
	47	RED YUCCA / HESPERALOE PARVIFLORA	5 GAL PER TNLA STANDARDS & SPECS	36" O.C.
GROUND COVERS	**QTY**	**COMMON NAME / BOTANICAL NAME**	**DESCRIPTION**	**SPACING**
	42 CY	WASHED GRANITE GRAVEL MULCH 1/2" - 1" WITH NO FINES	3" DEPTH W/ WEED BARRIER. PROVIDE SAMPLE PRIOR TO STARTING CONSTRUCTION	
	106	SILVER PONYFOOT / DICHONDRA ARGENTEA	1 GAL PER TNLA STANDARDS & SPECS	24" O.C.
	53 LF	STEEL EDGING	¼" RYERSON OR APPROVED EQUAL	

KEY LEGEND

NOTE: ITEMS LISTED BELOW REFERENCE CURRENT SHEET ONLY. QUANTITIES ARE INCLUDED FOR CONTRACTOR CONVENIENCE AND CONTRACTOR SHALL VERIFY ASSOCIATED QUANTITIES.

1. (861 SF) DECORATIVE PAVING - MEDIUM SALT FINISH
2. (115 LF) STEEL EDGING
3. EXISTING CURB & GUTTER

TREE LEGEND

SAVED TREE

REMOVED TREE

CONTRACTOR FIELD SET
This plan set shall remain on the site or subdivision premises for the life of the project and shall be utilized for any and all improvements contained herein.

GENERAL LANDSCAPE NOTES:

1. A 3 FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE FIRE HYDRANTS.
2. NO MONARCH TREES ON SITE

TREE SURVEY				TREE SURVEY			
TREE NUMBER	CALIPERS	TOTAL CALIPERS	SPECIES	TREE NUMBER	CALIPERS	TOTAL CALIPERS	SPECIES
2,748	9	9.00"	LIVE OAK	2,787	7	7.00"	HACKBERRY
2,749	13	13.00"	LIVE OAK	2,788	7	7.00"	HACKBERRY
2,750	23	23.00"	OAK TWIN	2,789	7	7.00"	HACKBERRY
2,751	12	12.00"	LIVE OAK	2,790	18.7	18.70"	OAK TWIN
2,752	19	19.00"	LIVE OAK	2,791	28	28.00"	OAK
2,753	24	24.00"	LIVE OAK	2,792	15	15.00"	OAK
2,754	13	13.00"	LIVE OAK	2,793	12	12.00"	OAK
2,755	14.5	14.50"	LIVE OAK	2,794	6	6.00"	HACKBERRY
2,756	15.5	15.50"	LIVE OAK	2,795	22.45	22.45"	OAK CLUSTER
2,757	18.5	18.50"	OAK TWIN	2,796	8	8.00"	OAK
2,758	13.5	13.50"	LIVE OAK	2,797	7	7.00"	OAK
2,759	17.7	17.70"	OAK TWIN	2,798	12	12.00"	HACKBERRY
2,760	14	14.00"	LIVE OAK	2,799	18	18.00"	OAK
2,761	13	13.00"	LIVE OAK	2,800	6	6.00"	ELM
2,762	7	7.00"	LIVE OAK	2,801	6.5	6.50"	HACKBERRY
2,763	10.5	10.50"	LIVE OAK	2,802	7.5	7.50"	HACKBERRY
2,764	16.2	16.20"	OAK TWIN	2,803	9	9.00"	CHINABERRY
2,765	25.2	25.20"	OAK TWIN	2,804	8.5	8.50"	RED OAK
2,766	22.2	22.20"	OAK TWIN	2,805	12	12.00"	RED OAK
2,767	24	24.00"	LIVE OAK	* 2,804	8.5	8.50"	RED OAK
2,768	6	6.00"	LIVE OAK	* 2,805	12	12.00"	RED OAK
2,769	11	11.00"	LIVE OAK	* 2,806	8	8.00"	CEDAR
2,770	10	10.00"	LIVE OAK	* 2,807	8	8.00"	CEDAR
2,771	16.5	16.50"	LIVE OAK	* 2,808	13	13.00"	CEDAR
2,772	13.5	13.50"	LIVE OAK	* 2,809	10	10.00"	CEDAR
2,773	19.2	19.20"	OAK TWIN	* 2,810	9	9.00"	CEDAR
* 2,774	26.1	26.10"	LIVE OAK	* 2,811	10	10.00"	CEDAR
2,775	17.5	17.50"	LIVE OAK	* 2,812	8	8.00"	CEDAR
2,776	13	13.00"	LIVE OAK	* 2,813	11	11.00"	CEDAR
2,777	18"	0.00"	LIVE OAK	* 2,814	9.5	9.50"	CEDAR
2,779	27.7	27.70"	OAK TWIN	* 2,815	14.5	14.50"	CEDAR
2,780	22.5	22.50"	OAK TWIN	* 2,816	8	8.00"	CEDAR
2,781	31	31.00"	LIVE OAK	* 2,817	10	10.00"	CEDAR
2,782	15	15.00"	HACKBERRY	* 2,818	10.5	10.50"	CEDAR
2,783	13	13.00"	HACKBERRY	* 2,819	8.5	8.50"	CEDAR
2,784	6.5	6.50"	HACKBERRY	* 2,820	8.5	8.50"	CEDAR
2,785	9.5	9.50"	HACKBERRY	* 2,821	13.5	13.50"	CEDAR
2,786	9.5	9.50"	HACKBERRY				

* – DENOTES TREE TO BE REMOVED

24x36
30'
SCALE: 1"=30'-0"

12x18
60'
SCALE: 1"=60'-0"

0 15 30 60 90

SUBMISSIONS | REVISIONS::

03.08.2019	CODE ANALYSIS / SD PRICING SET
06.07.2019	SDP #1 SUBMITTAL
07.22.2019	SDP #2 SUBMITTAL
09.17.2019	SDP #3 SUBMITTAL

studio 16:19
design · collaborate · solve · impact
1717 n. ih 35, suite 308 p 512.534.8680
round rock, texas 78664 studio1619.com

REGISTERED LANDSCAPE ARCHITECT
BRENT A. BAKER
2091
STATE OF TEXAS
09-17-19

civil engineer ::
hagood engineering associates, inc.
900 e main st.,
round rock,texas,78664
p:: 512.244.1546

architect ::
kah architecture
1517 e palm valley blvd
round rock,texas,78664
p:: 512.255.9690

owner ::
YMCA OF GREATER WILLIAMSON COUNTY

1812 North Mays Street
Round Rock, TX 78664

YMCA CHASCO
1801 NORTH I-H 35
ROUND ROCK, TX 78664

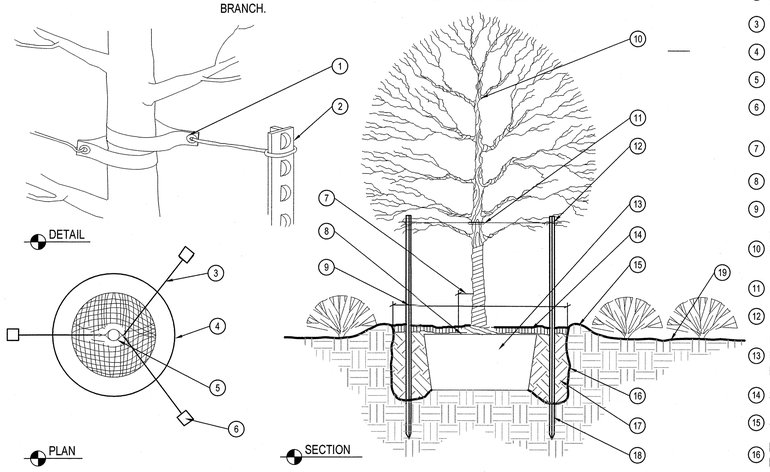
sheet information ::

project #::	16.239
date ::	09.17.2019
designed ::	bs, bab
drawn ::	ws
checked ::	jw
approved ::	bab

LA1.01

LANDSCAPE
PERMIT PLAN
SDP 1904-0001

NOTES:
1. ROOTBALL SIZE SHALL CONFORM TO THE 1995 AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS UNLESS OTHERWISE NOTED.
2. USE THREE STAKES ON ALL TREES.
3. APPROVED TIE SYSTEM SHALL BE LOCATED ABOVE THE BOTTOM BRANCH.



1. APPROVED TREE TIE SYSTEM (SEE NOTES) LOOP SHALL BE 3X THE DIAMETER OF TRUNK IN ORDER TO PREVENT SCARING, CUTTING, GIRDLING, OR OTHER DAMAGE TO TREE
2. STEEL STUDDED FENCE POST-STUDS MUST FACE AWAY FROM TREE
3. APPROVED TREE TIE SYSTEM (SEE NOTES)
4. EDGE OF TREE PIT
5. TREE TRUNK
6. STUDDED STEEL FENCE POST, MIN. 8' LONG, EXTEND STAKE 18" BELOW GRADE
7. CONTRACTOR TO LEAVE 6" MIN. ROOT FLARE UNCOVERED BY MULCH, SOIL, AND PLANTING MIX
8. PLACE TOP OF ROOT FLARE 2" ABOVE FINISH GRADE
9. EXCAVATE HOLE 2X ROOT BALL DIAMETER
10. NEVER CUT LEADER-THIN UP TO 1/3 OF BRANCHES RETAINING NATURAL SHAPE OF TREE - DO NOT LEAVE STUBS
11. APPROVED TIE SYSTEM ABOVE BOTTOM BRANCH
12. STAKE ALL TREES USING METAL STAKES-3 PER TREE
13. DO NOT BREAK ROOT BALL. IF ROOT BALL IS BROKEN PLANT WILL BE REJECTED. REMOVE BURLAP FROM TOP OF ROOT BALL
14. 3" MULCH LAYER AS SPECIFIED
15. 4" HT. SAUCER AROUND PLANTING PIT
16. ROUGHEN SURFACE TO IMPROVE ROOT PENETRATION
17. PLANTING SOIL MIX AS SPECIFIED
18. MIN. 3 STAKES PER TREE PAINTED BLACK STEEL
19. FINISH GRADE

1 SINGLE TRUNK TREE PLANTING AND STAKING

SCALE: NTS

AS-BUILTS - INSTALLATION PER PLAN 09/24/2020

AS BUILT DRAWINGS

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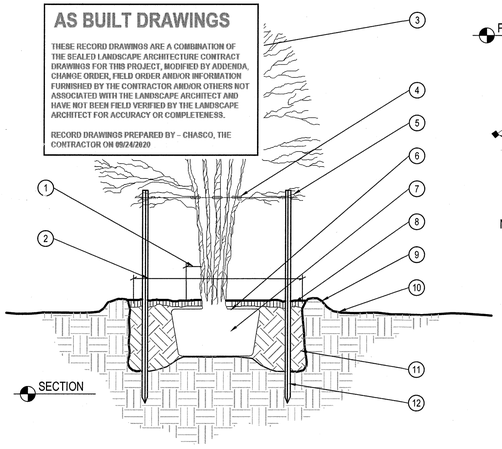
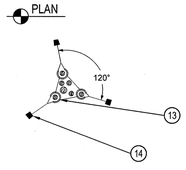
RECORD DRAWINGS PREPARED BY – CHASCO, THE CONTRACTOR ON 09/24/2020



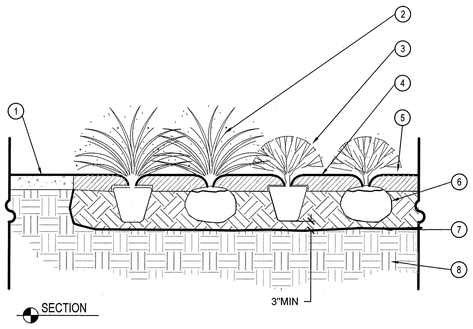


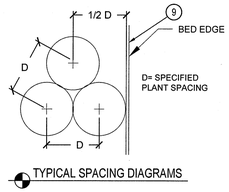
NOTES:
1. TOTAL CALIPER INCHES OF A MULTIPLE TRUNK TREE IS CALCULATED AS FOLLOWS: ADD THE CALIPER INCHES OF THE LARGEST TRUNK TO HALF OF THE CALIPER INCH OF EACH OF THE SMALLER TRUNKS.
2. ROOTBALL WIDTH SHOULD BE DETERMINED BY THE FOLLOWING: 8" OF ROOTBALL DIA. FOR EACH 1" CALIPER OF TREE TRUNK.
3. ROOTBALL DEPTH IS 2/3RDS OF THE DIAMETER.

1. CONTRACTOR TO LEAVE 6" MIN. ROOT FLARE UNCOVERED BY MULCH, SOIL, AND PLANTING MIX
2. EXCAVATE HOLE 2X ROOT BALL DIAMETER
3. NEVER CUT LEADER - THIN UP TO 1/3 OF BRANCHES RETAINING NATURAL SHAPE OF TREE - DO NOT LEAVE STUBS
4. ATTACH GUY WIRE & HOSE ABOVE BOTTOM BRANCH.
5. STAKE ALL TREES USING METAL STAKES-3 PER TREE
6. PLACE TOP OF ROOT FLARE 2" ABOVE FINISH GRADE
7. DO NOT BREAK ROOT BALL. IF ROOT BALL IS BROKEN PLANT WILL BE REJECTED. REMOVE BURLAP FROM TOP OF ROOT BALL
8. 3" MULCH LAYER AS SPECIFIED
9. 4" HT. SAUCER AROUND PLANTING PIT
10. FINISH GRADE
11. PLANTING SOIL MIX AS SPECIFIED
12. HEAVY DUTY, METAL STAKE TO BE MINIMUM 8'-0" LONG STAKE TO BE 18" BELOW FINISH GRADE
13. LACE HOSE GUARDS TOGETHER WITH SINGLE WIRE STAY
14. MIN. 3 STAKES PER TREE PAINTED BLACK STEEL STAKE 3 LARGEST STEMS ON TREE

2 MULTI-STEM TREE PLANTING AND STAKING STANDARD

SCALE: NTS





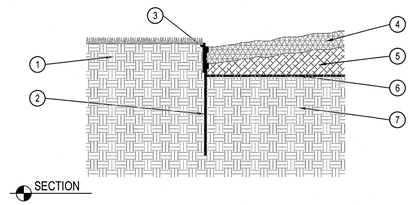
1. CONCRETE PAVING
2. GRASSES (AS SPECIFIED)
3. SHRUB (AS SPECIFIED)
4. 3" MULCH OR GRANITE GRAVEL LAYER
5. LEAVE NO ROOTS EXPOSED
6. PLANTING SOIL MIX AS SPECIFIED
7. GEOTEXTILE FABRIC
8. UNDISTURBED SUBGRADE
9. BED EDGE

3 SHRUB/ GRASS PLANTING

SCALE: NTS

LANDSCAPE NOTES:

1. COMPLETE ALL LANDSCAPE PLANTING AND RELATED EARTHWORK INCLUDING ALL PRODUCTS, EQUIPMENT AND LABOR, FOR THE LANDSCAPE AREAS SHOWN ON THE DRAWING AND DESCRIBED IN THE SPECIFICATIONS.
2. ALL QUESTIONS SHOULD BE REFERRED TO THE PROJECT LANDSCAPE ARCHITECT.
3. INFORMATION PROVIDED ON THIS PLAN IS GENERAL IN NATURE. DIMENSIONS, LOCATIONS, AND AREAS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO BIDDING & INSTALLATION.
4. QUANTITIES SHOWN FOR PLANT MATERIALS ARE APPROXIMATE. ACTUAL INSTALLED QUANTITIES OF PLANT MATERIALS MAY VARY FROM THE PLAN AND SHOULD BE FIELD DETERMINED ACCORDING TO THE GIVEN SPACING AND FIELD CONDITIONS. DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE PLAN WHICH LIMIT THE CONTRACTOR SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
5. BY BIDDING, THE CONTRACTOR ACKNOWLEDGES THAT THEY HAVE SATISFIED THEMSELVES AS TO THE NATURE AND LOCATION OF THE WORK AND TO THE QUALITY OF SURFACE AND SUBSURFACE MATERIALS OR OBSTACLES INSOFAR AS THIS DATA IS REASONABLY ASCERTAINABLE FROM AN INSPECTION OF THE SITE. ANY FAILURE BY THE CONTRACTOR TO ACQUAINT THEMSELVES WITH THE AVAILABLE INFORMATION WILL NOT RELIEVE THEM FROM RESPONSIBILITY FOR ESTIMATING PROPERLY THE DIFFICULTY OR COST OF SUCCESSFULLY PERFORMING THE WORK AS DESCRIBED.
6. INSTALLATION OF ALL LANDSCAPING MUST BE COORDINATED WITH THE INSTALLATION OF RELATED IRRIGATION, SITE WORK, AND GRADING.
7. UNLESS SPECIFICALLY NOTED, INSTALL ALL MASSED PLANTING UTILIZING EQUILATERAL TRIANGULAR SPACING.
8. EVENLY APPLY 3" OF MULCH TO ALL CONTINUOUS PLANTING BEDS. MULCH TO BE TRANSPORTED AND INSTALLED BY THE CONTRACTOR.
9. SUBSTITUTIONS OF PLANT SPECIES, SIZES, OR OTHER SPECIFIED MATERIALS WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT.
10. PLANT MATERIAL AND LAYOUT MUST BE APPROVED BY THE PROJECT LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
11. ALL IDENTIFICATION TAGS PROVIDED BY GROWERS AND PLACED ON TREES AND SHRUBS ARE TO REMAIN ON THE PLANTS THROUGH THE PUNCH-LIST INSPECTION. TAGS ARE TO BE REMOVED PRIOR TO FINAL ACCEPTANCE, OR UPON REQUEST OF THE PROJECT LANDSCAPE ARCHITECT.
12. SEED MIX/SOLID SOD WILL BE APPLIED TO ALL CONSTRUCTION-DAMAGED GROUND SURFACES NOT OTHERWISE PLANTED. CONTRACTOR SHALL REVIEW RELATED CONSTRUCTION DRAWINGS FOR LIMITS OF CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR COORDINATING WITH OTHER SITE CONTRACTORS TO DETERMINE ACTUAL AREAS OF SEEDING OR SODDING REQUIRED, INCLUDING AREAS DISTURBED BY UTILITY EXTENSIONS.
13. THE LANDSCAPE CONTRACTOR SHALL EXCAVATE FULLY PREPARED PLANT BEDS AS REQUIRED TO ACCOMMODATE A FULL 6" OF PREPARED SOIL AND 3" MULCH LAYER. CLEAN, NATIVE TOPSOIL REMOVED FROM THESE BEDS MAY BE SPREAD ON NEARBY AREAS TO BE SODDED OR SEEDED. STONES LARGER THAN 1" DIAMETER SHALL BE REMOVED AND DISPOSED OF OFF SITE. FOLLOWING EXCAVATION, PLACE PREPARED SOIL IN THESE PLANT BEDS. PREPARED SOIL SHALL CONSIST OF 4" IMPORTED "CHOCOLATE" LOAM TOPSOIL AND 2" ORGANIC COMPOST SOIL CONDITIONER (SUCH AS "LIVING EARTH TECHNOLOGIES", "BACK-TO-EARTH" OR OTHER APPROVED MANUFACTURER), THOROUGHLY BLENDED TOGETHER. THIS MIX SHALL ALSO BE USED TO BACKFILL PLANTING PITS OF ALL TREES AND PLANTING BEDS. CONTRACTOR SHALL SUBMIT PLANTING SOIL MATERIAL TO THE LANDSCAPE ARCHITECT FOR APPROVAL.
14. ALL PLANTING BEDS INDICATED WILL BE IRRIGATED WITH AN UNDERGROUND AUTOMATIC IRRIGATION SYSTEM. IRRIGATION CONTRACTOR IS TO BE A STATE OF TEXAS LICENSED IRRIGATOR, AND SHALL FOLLOW ALL TCEQ CODES AND REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS AND SPECIFICATIONS FOR IRRIGATION SYSTEM INCLUDING PIPE SIZES AND LOCATIONS.
15. ALL NON-IRRIGATED SEEDING AREAS DISTURBED BY CONSTRUCTION SHALL BE TEMPORARILY IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF SIX INCHES. THE IRRIGATION SHALL OCCUR AT TEN-DAY INTERVALS DURING THE FIRST TWO MONTHS. RAINFALL OCCURENCES OF 1/2 INCH OR MORE SHALL POSTPONE THE WATERING SCHEDULE FOR ONE WEEK. RESTORATION SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1-1/2 INCHES HIGH WITH 95% COVERAGE, PROVIDED NO BARE SPOTS LARGER THAN 16 SQUARE FEET EXIST.
16. REGULAR MAINTENANCE IS REQUIRED OF ALL LANDSCAPE AREAS AND PLANT MATERIALS MUST BE MAINTAINED IN A VIGOROUS AND HEALTHY CONDITION, FREE FROM DISEASES, PEST WEEDS, AND LITTER. THIS MAINTENANCE SHALL INCLUDE WEEDING, WATERING, FERTILIZATION, PRUNING, MOWING, EDGING, MULCHING OR OTHER NEEDED MAINTENANCE, IN ACCORDANCE WITH GENERALLY ACCEPTED HORTICULTURAL PRACTICES UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE PROJECT LANDSCAPE ARCHITECT.
17. THE OWNERS OF THE LANDSCAPED PROPERTY, OR THE MANAGER OR AGENT OF THE OWNER, SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL LANDSCAPE AREAS. SAID AREAS SHALL BE MAINTAINED SO AS TO PRESENT A HEALTHY, NEAT AND ORDERLY APPEARANCE AT ALL TIMES AND SHALL BE KEPT FREE OF REFUSE AND DEBRIS. ALL PLANTING BEDS SHALL BE PROVIDED WITH A READILY AVAILABLE WATER SUPPLY AND WATERED AS NECESSARY TO ENSURE CONTINUOUS HEALTHY GROWTH AND DEVELOPMENT. MAINTENANCE SHALL INCLUDE THE REPLACEMENT OF ALL DEAD PLANT MATERIAL IF THAT MATERIAL WAS USED TO MEET THE REQUIREMENTS OF THE ORDINANCE.
18. NO TOPSOIL SHALL BE PLACED UNTIL SUBGRADE IS APPROVED BY LANDSCAPE ARCHITECT. CONTRACTOR TO FURNISH AND SPREAD TOPSOIL ON LAWN AREAS TO A DEPTH OF FOUR INCHES, UNLESS NOTED OTHERWISE. WORK TOPSOIL TO A SMOOTH UNIFORM SURFACE AND COMPACT FIRMLY. FEATHER TOPSOIL INTO UNDISTURBED AREAS CREATING A SMOOTH, EVEN TRANSITION. SPREAD ADDITIONAL TOPSOIL IN UNDISTURBED AREAS TO ELIMINATE WATER PONDING
19. NO CUTTING, FILLING, TRENCHING, ROOT DISTURBANCE, SOIL DISTURBANCE, OR CONSTRUCTION IMPACTS SHALL OCCUR WITHIN THE CRITICAL ROOT ZONE OF EXISTING TREES. ANY WORK WITHIN THE CRZ MUST BE DONE BY HAND.
20. FROM APRIL 1 TO SEPTEMBER 30, ONLY CONTAINER GROWN TREES MAY BE PLANTED. FROM OCTOBER 1 TO MARCH 31, EITHER CONTAINER GROWN OR BALL AND BURLAPPED TREES MAY BE PLANTED.



1. ADJACENT TURF OR AGGREGATE
2. 8" STEEL STAKE
3. STEEL LANDSCAPE EDGING 3/16" X 6"
4. 3" LAYER OF MULCH
5. PLANTING SOIL MIX AS SPECIFIED
6. GEOTEXTILE FABRIC
7. UNDISTURBED SUBGRADE

4 STEEL EDGING

SCALE: NTS

LANDSCAPE MAINTENANCE NOTES:

PROPERTY LANDSCAPING SHALL BE MAINTAINED AT ALL TIMES. THE QUALITY OF THE LANDSCAPE MAINTENANCE SHALL MEET STANDARDS OF PERFORMANCE PROVIDED BY LANDSCAPE COMPANIES IN THE REGION. LANDSCAPE AREAS WILL AT ALL TIMES HAVE A NEAT, CLEAN, HEALTHY, MANICURED APPEARANCE.

1. TURF AREAS
   - A. MOWING & EDGING OF ALL TURF AREAS SHALL BE PERFORMED AT LEAST ONCE PER WEEK.
   - B. PERENNIAL GRASS OVERSEEDING SHALL BE SEPARATE & MUST BE APPROVED BY THE OWNER PRIOR TO START. OVERSEEDING SHALL BE SPREAD AT A RATE TO INSURE A LUSH, THICK CONSISTENT WINTER TURF. TRIMMING & EDGING OF TURF AREAS TO BE PERFORMED AT LEAST ONCE A WEEK.
   - C. ALL TURF AREAS ARE TO BE FERTILIZED A MINIMUM OF FOUR TIMES PER YEAR W/ A HIGH QUALITY, SLOW RELEASE FERTILIZER FROM A REPUTABLE MANUFACTURER.
   - D. CONTRACTOR SHALL APPLY APPROPRIATE FUNGICIDES AS NECESSARY & PRE-EMERGENT HERBICIDE TWO TIMES PER YEAR & POST-EMERGENT HERBICIDE AT THE TIME DEEMED MOST EFFICIENT & FAVORABLE BY CONTRACTOR.
   - E. TURF TO BE TREATED AS NECESSARY W/ APPROPRIATE INSECTICIDE TO CONTROL SOIL PESTS.
   - F. RAKING TO BE PERFORMED AS NEEDED TO MAINTAIN APPEARANCE. DE-THATCH & AERATE TURF ONCE DURING THE YEAR IN CONJUNCTION W/ CEREAL RYE OVERSEEDING. IF OWNER OPTS TO NOT PERFORM OVERSEED, DE-THATCHING & AERATING TO BE PERFORMED IN EARLY SPRING.
   - G. BAG TURF TRIMMINGS WITHIN 45 FEET OF BUILDINGS, DRIVEWAYS, & SIDEWALKS.
2. SHRUBS, GROUND COVER, BEDS & ANNUALS
   - A. TO BE MAINTAINED WEED FREE, AS NEEDED USING APPROPRIATE HERBICIDES & MANUAL WEEDING. USE A MINIMUM OF TWO PRE-EMERGENT APPLICATIONS & MANUALLY WEED EACH VISIT.
   - B. TO BE FERTILIZED FOUR TIMES PER YEAR W/ A BALANCED HIGH QUALITY, SLOW RELEASE FERTILIZER, APPROPRIATE TO THE SHRUBS ON THE PROJECT.
   - C. SHRUBBERY TO BE HAND TRIMMED AS SPECIFIED TO MAINTAIN A MANICURED APPEARANCE OR AS OTHERWISE REQUESTED BY OWNER. USE ONLY SKILLED PERSONNEL W/ SIGNIFICANT EXPERIENCE IN CLASS A PROPERTIES. NO SHEARING, ALL TO BE DONE W/ SELECTIVE HAND PRUNING TO KEEP PLANT WITHIN BOUNDS BUT TO MAINTAIN A NATURAL SHAPE & APPEARANCE.
   - D. TO BE INSPECTED WEEKLY BY QUALIFIED SUPERVISOR, FOLLOWED BY A WRITTEN REPORT OF PROBLEMS DISCOVERED & ACTIONS TO BE TAKEN.
   - E. AREAS TO BE SPRAYED W/ APPROPRIATE INSECTICIDES & FUNGICIDES, AS NECESSARY.
   - F. ANNUALS TO BE CHANGED OUT FOUR (4) TIMES PER YEAR USING FOUR (4) INCH POTS & FERTILIZED AT EACH CHANGE. MONITOR & APPLY FUNGICIDES & INSECTICIDES TO INSURE MAXIMUM VIGOR.
   - G. APPLY SHREDDED HARDWOOD MULCH TO A DEPTH OF THREE INCHES, A MINIMUM OF THREE TIMES ANNUALLY. IF MULCH DEPTH ACCUMULATION BECOMES SO EXCESSIVE AS TO BE DETRIMENTAL TO PLANT HEALTH, RAKE OUT & DISPOSE OF EXCESS QUANTITIES OF THE OLDEST MATERIAL, OFF-SITE.
   - H. ALL TRAFFIC & DIRECTIONAL SIGNAGE TO BE KEPT FREE & CLEAR FROM ALL BUSHES/SHRUBS, ETC.
   - I. A THREE-FOOT CLEAR ZONE AROUND ALL FIRE HYDRANTS SHALL BE MAINTAINED
3. LANDSCAPE TREES (4" CALIPER OR LESS)
   - A. TO BE LIGHTLY PRUNED AS NECESSARY (AT LEAST ONCE A MONTH DURING GROWING SEASON).
   - B. TO BE PRUNED & SHAPED ONCE DURING WINTER MONTHS. PRUNE TO CLASS I STANDARDS. NOTIFY MANAGEMENT PRIOR TO & IMMEDIATELY FOLLOWING PRUNING ACTIVITY. PRUNING TO BE DONE BY QUALIFIED TREE CARE FIRM, SUBJECT TO MANAGEMENT APPROVAL.
   - C. DEEP ROOT FERTILIZE ALL LANDSCAPE TREES ONE TIME PER YEAR. SUBMIT INFORMATION ON MATERIALS, APPLICATION METHODS & APPLICATOR QUALIFICATION ONE WEEK PRIOR TO PERFORMING WORK TO OWNER'S REPRESENTATIVE.
   - D. ALL TRAFFIC & DIRECTIONAL SIGNAGE TO BE KEPT FREE OF TREE LIMBS & BRANCHES
4. LARGE TREES (GREATER THAN 4" CALIPER)
   - A. CONTRACTOR SHALL INSPECT FOR INSECT, DISEASE INFESTATIONS & TREE DAMAGE SUCH AS LIGHTNING OR VEHICULAR DAMAGE. CONTRACTOR SHALL NOTIFY MANAGEMENT IMMEDIATELY OF SUCH DANGER OR DISEASE SO THAT CORRECTIVE ACTION CAN BE TAKEN.
   - B. WHEN PRUNING IS REQUIRED TO REMOVE DEAD OR DAMAGED LIMBS, WORK IS TO BE DONE BY QUALIFIED TREE CARE FIRM. MANAGEMENT APPROVAL IS REQUIRED PRIOR TO PRUNING.
   - C. ANY FERTILIZING RECOMMENDED BY QUALIFIED TREE CARE FIRM IS SUBJECT TO APPROVAL.
   - D. ALL TRAFFIC & DIRECTIONAL SIGNAGE TO BE KEPT FREE OF TREE LIMBS & BRANCHES
5. DEBRIS & LITTER
   - A. NORMAL TRASH & LITTER WILL BE REMOVED FROM ALL LAWN & LANDSCAPED AREAS WEEKLY.
   - B. ALL DEBRIS RESULTING FROM ANY & ALL LANDSCAPE WORK SHALL BE CLEANED UP IMMEDIATELY.
6. PAVED AREAS
   - A. AT PARKING LOT PERIMETERS & PAVING JOINTS, WEEDS & GRASSES ARE TO BE CONTROLLED W/ CONTACT HERBICIDE SPRAYS & MANUAL WEEDING AS REQUIRED.
   - B. ALL DEBRIS RESULTING FROM ANY & ALL LANDSCAPE WORK SHALL BE CLEANED UP IMMEDIATELY.
7. IRRIGATION
   - A. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING & OPERATING ALL IRRIGATION SYSTEMS AT THE PROPERTY EXCEPT AS MAY BE OTHERWISE NOTED.
   - B. IRRIGATION SYSTEMS MUST BE INSPECTED MONTHLY & A REPORT MUST BE SUBMITTED TO MANAGEMENT. MANAGEMENT MUST APPROVE REPAIRS GREATER THAN $250.00.
   - C. CONTRACTOR WILL ENSURE THAT WATERING CYCLES ARE IN COMPLIANCE W/ ANY CITY GUIDELINES AS A RESULT OF WATER RATIONING OR WATER CONSERVATION. ANY FEES OR PENALTIES INCURRED BY VIOLATION OF ORDINANCES WILL BE BILLED TO CONTRACTOR.
   - D. ALL HEADS & NOZZLES BROKEN BY LANDSCAPE MAINTENANCE OPERATIONS WILL BE REPAIRED OR REPLACED IMMEDIATELY AT CONTRACTOR EXPENSE, ALL NOZZLES WILL BE CLEANED MONTHLY IF NECESSARY, & ALL HEADS WILL BE ADJUSTED AS NEEDED.
8. GENERAL
   - A. CONTRACTOR SHALL PROVIDE ADEQUATE SUPERVISION TO ASSURE THAT ALL WORK WILL BE DONE IN ACCORDANCE W/ THIS AGREEMENT & GENERALLY ACCEPTED GOOD PRACTICE. A WEEKLY VISIT BY A QUALIFIED SUPERVISOR IS A MINIMUM REQUIREMENT. ADEQUATE TIME SHALL BE ALLOWED FOR A THOROUGH & COMPLETE EXAMINATION OF THE ENTIRE PROPERTY.
   - B. CONTRACTOR SHALL REPLACE AT CONTRACTOR'S EXPENSE ANY PLANT MATERIAL THAT DIES DUE TO DAMAGE BY LAWN MAINTENANCE, EQUIPMENT OR CONTRACTOR'S NEGLIGENCE.
   - C. ALL WORK SHALL BE PERFORMED BY CONTRACTOR'S EMPLOYEES; NO WORK SHALL BE PERFORMED BY SUBCONTRACTORS WITHOUT WRITTEN CONSENT OF MANAGEMENT.
   - D. EMPLOYEES TO WEAR UNIFORMS & PROVIDE NEAT APPEARANCE & PROFESSIONAL BEHAVIOR.
   - E. CREW MEMBERS WILL OBSERVE ALL OSHA REGULATIONS. ALL EQUIPMENT WILL BE PROPERLY MAINTAINED & KEPT IN A SAFE OPERATING CONDITION.
   - F. ALL DEBRIS RESULTING FROM ANY & ALL LANDSCAPE WORK SHALL BE IMMEDIATELY CLEANED UP & REMOVED FROM SITE. USE OF AN ON-SITE DUMPSTER IS PROHIBITED.
   - G. ADDITIONAL PROJECTS, LANDSCAPE UPGRADES, ETC. WILL BE NEGOTIATED AS NEEDED.
   - H. POTS OR SIDEWALK PLANTERS AT PROPERTY SHALL BE MAINTAINED IN ACCORDANCE W/ ALL SPECS NOTED ABOVE. IRRIGATION SHALL BE MAINTAINED OR HAND WATER AS NEEDED.

SUBMISSIONS | REVISIONS::

03.08.2019	CODE ANALYSIS / SD PRICING SET
06.07.2019	SDP #1 SUBMITTAL
07.22.2019	SDP #2 SUBMITTAL
09.17.2019	SDP #3 SUBMITTAL
10.04.2019	ASAP

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sheet information ::

project #::	16.239
date ::	10.04.2019
designed ::	bs, bab
drawn ::	ws
checked ::	jw
approved ::	bab

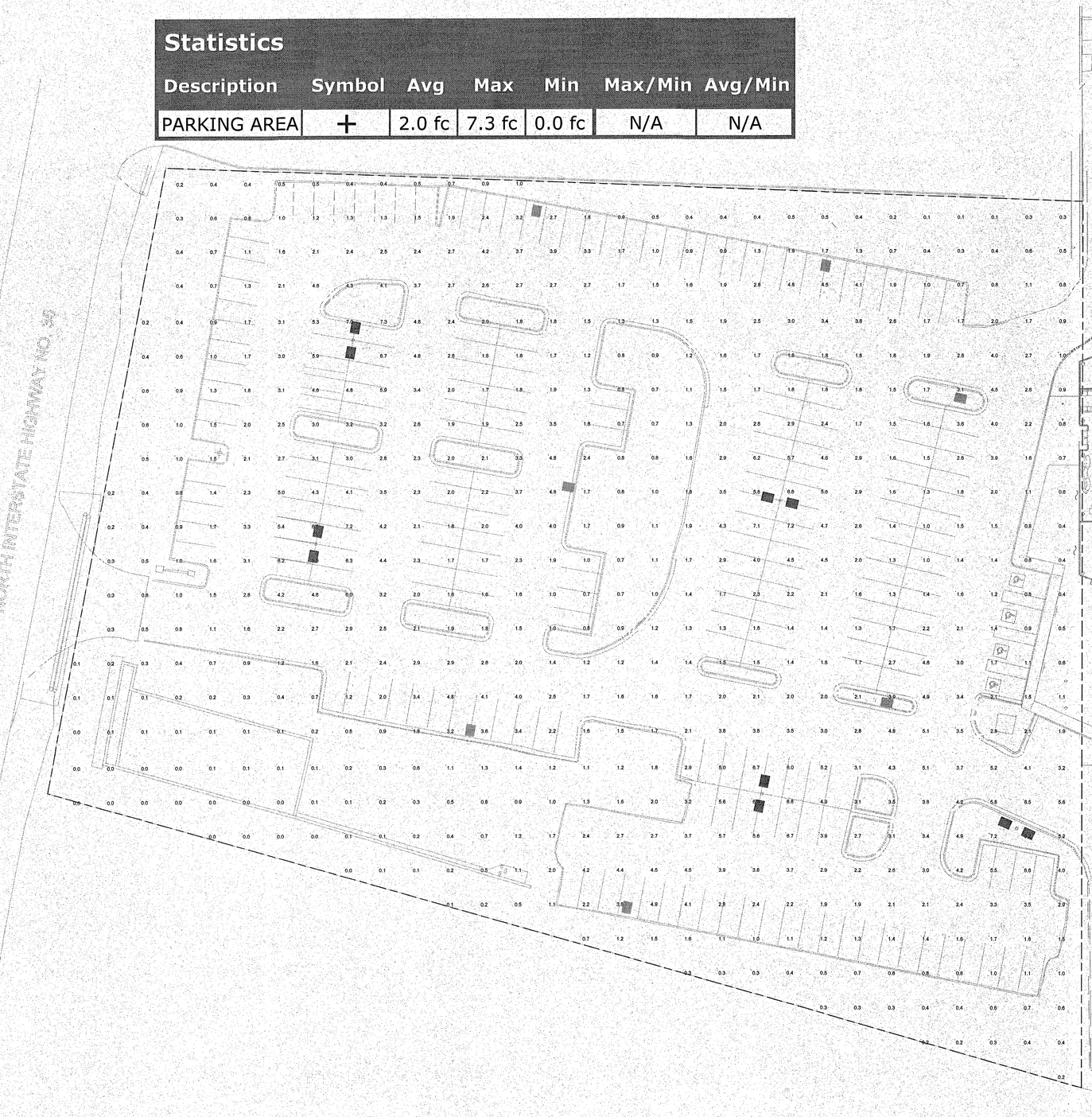
LA5.01

LANDSCAPE NOTES & DETAILS
SDP 1904-0001

Schedule											
Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens per Lamp	LLF	Wattage
	S1	7	Visionaire Lighting LLC	VLX-1-T3-128LC-5-4K-UNV_CLS-	38 in. L x 17 in. W x 10 in. H		192	VLX_1_T3_128LC_5_4K-UNV_CLS.IES	87	0.92	215
	S2	5	Visionaire Lighting LLC	VLX-1-T3-128LC-5-4K-UNV	36 in. L X 15.5 in. W. X 14 in. H. LED LUMINAIRE		1	VLX-1_T3_128LC_5_4K.IES	22333	0.92	406

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PARKING AREA	+	2.0 fc	7.3 fc	0.0 fc	N/A	N/A



CONTRACTOR FIELD SET
This plan set shall remain on the site or subdivision premises for the life of the project and shall be utilized for any and all improvements contained herein.

THE ATTACHED SEAL INDICATES THAT THIS DOCUMENT WAS PREPARED BY A PROFESSIONAL ENGINEER, BUT DOES NOT GUARANTEE ACCURACY OF THIRD PARTY PHOTOMETRIC SOFTWARE OR THIRD PARTY PHOTOMETRY FILES THAT WERE USED IN THE GENERATION OF THIS DOCUMENT.

CITY OF ROUND ROCK
PROJECT TRACKING NUMBER
SDP1904-0001

Plan View
Scale - 1" = 25ft

As-Built

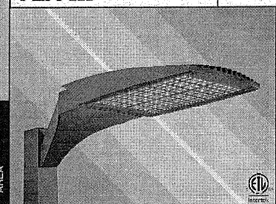
VLX LED

Project Name: TYPE 'S1' & 'S2'

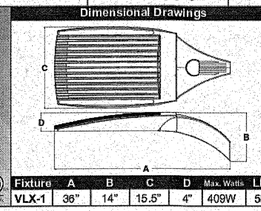
Catalog Number:

Type

AREA



Dimensional Drawings



Fixture	A	B	C	D	Max. Watts	Lbs
VLX-1	36"	14"	15.5"	4"	409W	58

The new VLX LED Series offers clean, functional styling that is defined by its sleek low profile design and rugged construction. It combines LED performance and advanced LED thermal management technology and provides outdoor lighting that is both energy efficient and aesthetically pleasing.

The LED's performance and the driver's life are maximized by enclosing them in two separate die cast aluminum housings. Easy tool-less access for mounting and maintenance.

The LED light assemblies come with 64 to 192 LEDs. Six optical distribution patterns are available. Choose between 4000 or 5000 Kelvin temperature of the LEDs.

A durable polyester powder coat finish is guaranteed for five years; and is available in standard or custom colors.

The VLX LED series is an exceptional choice for commercial parking lots, office complexes, architectural projects, and other general lighting projects.

Model	Optics	Source	Current	Kelvin	Voltage	Mounting	Finish	Options
VLX-1	Type II (T2) Type III (T3) Type IV (T4) Type IV-A (T4A) Type IV-AR (T4AR) Rotated Right Type IV-AL (T4AL) Rotated Left Type V (T5) Type V-W (T5W)	# of LEDs 64 (64LC) 96 (96LC) 128* (128LC) 160* (160LC) 192* (192LC) *5000mA NOT AVAILABLE WITH 64LC, 96LC OR 160LC	mA 350 (3) 530 (5) 700 (7) 1000* (10) * 5000mA NOT AVAILABLE WITH 64LC, 96LC OR 160LC	4000K *Neutral white (4K) 5000K *Cool white (5K)	120-277 *Universal voltage (UNV) 480 (5) Not available in 1 amp 347 (8) Not available in 1 amp	Arm Mount (AM) Wall Mount *Cast Wall Plate (BAWP) to be ordered separately (WM) VLX-DWLL-EXADP-RM Round Pole Plate Adaptors (RPP) are to be ordered separately.	Bronze (BZ) Black (BK) Smooth Black (SBK) White (WH) Smooth White (SWH) Graphite (GP) Grey (GY) Silver Metallic (SL) Custom Color (CC)	Photocell & Receptacle *Specify voltage (PCR120) (PCR208) (PCR240) (PCR277) Photo Receptacle (PER) *Not shorting cap Round Pole Plate Adapter For 3"Ø Pole (RPP3) For 4"Ø Pole (RPP4) For 5"Ø Pole (RPP5) Cast Wall Plate (BAWP) 0-10v Dimming Driver Nightlight (DIM) Motion Sensor *Mounted 8-15 ft (WSC-08) 8-15 mounting height (WSC-15) 9-20 mounting height (WSC-20) 21-40 mounting height (WSC-40) Wireless Control (WC) Universal Pole Mount Adaptor (UPMA)

For more detailed information on accuracy, wiring or installation instructions, please contact factory. If prices are not printed with fixtures, please specify mounting requirements. The information herein is the property of Visionaire Lighting, LLC. Any use of this information requires written approval of Visionaire Lighting, LLC. In keeping with our 100 years of continuous improvement, Visionaire reserves the right to change any specifications contained herein without prior notice.

VISIONAIRE LIGHTING
PROGRESSION IS ALWAYS NOW EQUINOX

CATALOG NUMBER	NOMINAL HEIGHT (ft.)	POLE SHAFT (in. sq.) x (ft.)	POLE SHAFT GAUGE	HANDHOLE SIZE (in.)	ANCHOR BOLT (in.) x (in.) x (in.)	BOLT CIRCLE (in.)	MAXIMUM TOTAL LOADING EPA IN SQUARE FEET 80 MPH	90 MPH	100 MPH	SHIP WT. (lbs.)
SSP20-4.0-11-(F)-(*)	20	4.0 x 20.0	11	3 x 5	.75 x 17 x 3	9.00	–	–	–	93
SSP20-4.0-11-(F)-(*)	20	4.0 x 20.0	11	3 x 5	.75 x 17 x 3	9.00	32.1	33.5	27.1	93
SSP22-4.0-11-(F)-(*)	22	4.0 x 22.0	11	3 x 5	.75 x 17 x 3	9.00	33.7	28.7	23.4	102
SSP18-4.0-11-(F)-(*)	18	4.0 x 18.0	11	3 x 5	.75 x 17 x 3	9.00	37.4	31.5	19.7	111
SSP15-4.0-11-(F)-(*)	15	4.0 x 15.0	11	3 x 5	.75 x 17 x 3	9.00	29.7	18.1	12.6	118
SSP15-4.0-7-(F)-(*)	15	4.0 x 15.0	7	3 x 5	.75 x 20 x 3	9.00	30.8	24.0	17.6	172
SSP16-4.0-11-(F)-(*)	16	4.0 x 16.0	11	3 x 5	.75 x 17 x 3	9.00	16.7	14.4	11.2	125
SSP18-4.0-11-(F)-(*)	18	4.0 x 18.0	11	3 x 5	.75 x 17 x 3	9.00	18.2	11.5	4.7	138
SSP20-4.0-11-(F)-(*)	20	4.0 x 20.0	11	3 x 5	.75 x 17 x 3	9.00	14.3	9.0	6.5	151
SSP20-4.0-7-(F)-(*)	20	4.0 x 20.0	7	3 x 5	.75 x 20 x 3	9.00	19.0	15.0	11.5	219
SSP20-5.0-11-(F)-(*)	20	5.0 x 20.0	11	3 x 5	1.00 x 36 x 4	11.00	22.2	18.6	15.6	333
SSP20-5.0-7-(F)-(*)	20	5.0 x 20.0	7	3 x 5	1.00 x 36 x 4	11.00	28.4	27.3	21.5	333
SSP22-5.0-11-(F)-(*)	22	5.0 x 22.0	11	3 x 5	1.00 x 36 x 4	11.00	18.5	13.6	9.8	352
SSP22-5.0-7-(F)-(*)	22	5.0 x 22.0	7	3 x 5	1.00 x 36 x 4	11.00	26.0	23.2	17.5	527
SSP24-5.0-11-(F)-(*)	24	5.0 x 24.0	11	3 x 5	1.00 x 36 x 4	11.00	15.2	10.8	7.4	368
SSP26-5.0-7-(F)-(*)	26	5.0 x 26.0	7	3 x 5	1.00 x 36 x 4	11.00	25.8	19.4	14.6	581
SSP20-6.0-11-(F)-(*)	20	6.0 x 20.0	11	3 x 5	.75 x 17 x 3	9.00	6.9	4.8	3.3	192
SSP20-6.0-7-(F)-(*)	20	6.0 x 20.0	7	3 x 5	.75 x 20 x 3	9.00	12.9	8.7	6.0	266
SSP25-6.0-11-(F)-(*)	25	6.0 x 25.0	11	3 x 5	1.00 x 36 x 4	11.00	13.8	9.8	6.8	378
SSP25-6.0-7-(F)-(*)	25	6.0 x 25.0	7	3 x 5	1.00 x 36 x 4	11.00	22.8	17.2	12.1	573
SSP28-6.0-11-(F)-(*)	28	6.0 x 28.0	11	3 x 5	1.00 x 36 x 4	11.00	12.4	8.8	6.2	384
SSP26-6.0-7-(F)-(*)	26	6.0 x 26.0	7	3 x 5	1.00 x 36 x 4	11.00	21.9	16.1	11.5	584
SSP28-6.0-11-(F)-(*)	28	6.0 x 28.0	11	3 x 5	1.00 x 36 x 4	11.00	9.8	6.1	4.2	399
SSP28-6.0-7-(F)-(*)	28	6.0 x 28.0	7	3 x 5	1.00 x 36 x 4	11.00	18.4	13.2	9.5	468
SSP30-6.0-7-(F)-(*)	30	6.0 x 30.0	7	3 x 5	.75 x 20 x 3	9.00	6.9	4.8	3.3	372
SSP30-6.0-11-(F)-(*)	30	6.0 x 30.0	11	3 x 5	1.00 x 36 x 4	11.00	8.8	5.8	3.8	515
SSP30-8.0-7-(F)-(*)	30	8.0 x 30.0	7	3 x 5	1.00 x 36 x 4	11.00	13.8	9.1	5.8	632
SSP30-6.0-7-(F)-(*)	30	6.0 x 30.0	7	3 x 5	1.00 x 36 x 4	11.00	27.5	19.0	14.1	597
SSP35-6.0-7-(F)-(*)	35	6.0 x 35.0	7	3 x 5	1.00 x 36 x 4	11.00	19.8	13.8	9.8	645
SSP35-8.0-7-(F)-(*)	35	8.0 x 35.0	7	3 x 5	1.00 x 36 x 4	11.00	7.3	5.0	3.5	881
SSP35-8.0-7-(F)-(*)	35	8.0 x 35.0	7	3 x 5	1.00 x 36 x 4	11.00	15.9	9.8	6.1	884
SSP35-8.0-11-(F)-(*)	35	8.0 x 35.0	11	3 x 5	1.00 x 36 x 4	11.00	19.7	12.8	8.2	729
SSP39-6.0-7-(F)-(*)	39	6.0 x 39.0	7	3 x 5	1.00 x 36 x 4	11.00	8.8	6.1	4.3	642
SSP39-8.0-7-(F)-(*)	39	8.0 x 39.0	7	3 x 5	1.00 x 36 x 4	12.00	13.3	9.1	6.3	914

(F) - See Finish Chart. (*) - See Mounting Configurations Chart

SQUARE NON-TAPERED STEEL POLES

VISUAL

ADDITIONS & RENOVATIONS
CHASCO FAMILY YMCA
1801 N. IH 35
ROUND ROCK, TEXAS 78664

Designer	LMM
Date	07/22/2019
Scale	1" = 25'-0"
Drawing No.	
Summary	

1 of 1

Organized Sewage Collection System Application

Texas Commission on Environmental Quality

For Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(c), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Regulated Entity Name: YMCA METRO OFFICES

1. ☒ **Attachment A – SCS Engineering Design Report**. This Engineering Design Report is provided to fulfill the requirements of 30 TAC Chapter 217, including 217.10 of Subchapter A, §§217.51 – 217.70 of Subchapter C, and Subchapter D as applicable, and is required to be submitted with this SCS Application Form.

Customer Information

2. The entity and contact person responsible for providing the required engineering certification of testing for this sewage collection system upon completion (including private service connections) and every five years thereafter to the appropriate TCEQ region office pursuant to 30 TAC §213.5(c) is:

   Contact Person: JEFF ANDRESEN
   Entity: YMCA OF CENTRAL TEXAS
   Mailing Address: 1812 N. MAYS STREET
   City, State: ROUND ROCK, TX Zip: 78664
   Telephone: 512.615.5555 Fax: _____
   Email Address: RCARLTON@YMCACTX.ORG
   The appropriate regional office must be informed of any changes in this information within 30 days of the change.

3. The engineer responsible for the design of this sewage collection system is:

   Contact Person: TERRY R HAGOOD
   Texas Licensed Professional Engineer's Number: 52960
   Entity: HAGOOD ENGINEERING ASSOCIATES, INC
   Mailing Address: 900 E. MAIN STREET
   City, State:ROUND ROCK, TX Zip: 78664
   Telephone:512.244.1546 Fax:_____
   Email Address:TERRYH@HEAENG.COM

Project Information

4. Anticipated type of development to be served (estimated future population to be served, plus adequate allowance for institutional and commercial flows):

   ☐ Residential: Number of single-family lots: _____
   ☐ Multi-family: Number of residential units: _____
   ☒ Commercial
   ☐ Industrial
   ☐ Off-site system (not associated with any development)
   ☐ Other: _____

5. The character and volume of wastewater is shown below:

   100% Domestic — 8500 gallons/day
   _____% Industrial — _____ gallons/day
   _____% Commingled — _____ gallons/day
   Total gallons/day: _____

6. Existing and anticipated infiltration/inflow is _____ gallons/day. This will be addressed by: _____.

7. A Water Pollution Abatement Plan (WPAP) is required for construction of any associated commercial, industrial or residential project located on the Recharge Zone.

   ☐ The WPAP application for this development was approved by letter dated june 6, 2024. A copy of the approval letter is attached.
   ☐ The WPAP application for this development was submitted to the TCEQ on _____, but has not been approved.
   ☐ A WPAP application is required for an associated project, but it has not been submitted.
   ☐ There is no associated project requiring a WPAP application.

8. Pipe description:

Table 1 - Pipe Description

Pipe Diameter(Inches)	*Linear Feet (1)*	*Pipe Material (2)*	*Specifications (3)*
6"	61.55	PVC SDR 26	ASTM 3034
8"	390.75	PVC SDR 26	ASTM 3034

Total Linear Feet: 453

(1) Linear feet - Include stub-outs and double service connections. Do not include private service laterals.
(2) Pipe Material - If PVC, state SDR value.
(3) Specifications - ASTM / ANSI / AWWA specification and class numbers should be included.

9. The sewage collection system will convey the wastewater to the Brushy Creek Regional Wastewater (name) Treatment Plant. The treatment facility is:

   ☐ Existing
   ☐ Proposed

10. All components of this sewage collection system will comply with:

   ☒ The City of ROUND ROCK standard specifications.
   ☐ Other. Specifications are attached.

11. ☒ No force main(s) and/or lift station(s) are associated with this sewage collection system.

   ☐ A force main(s) and/or lift station(s) is associated with this sewage collection system and the **Lift Station/Force Main System Application** form (TCEQ-0624) is included with this application.

Alignment

12. ☒ There are no deviations from uniform grade in this sewage collection system without manholes and with open cut construction.

13. ☐ There are no deviations from straight alignment in this sewage collection system without manholes.

   ☐ **Attachment B - Justification and Calculations for Deviation in Straight Alignment without Manholes**. A justification for deviations from straight alignment in this sewage collection system without manholes with documentation from pipe manufacturer allowing pipe curvature is attached.

   ☐ For curved sewer lines, all curved sewer line notes (TCEQ-0596) are included on the construction plans for the wastewater collection system.

Manholes and Cleanouts

14. ☒ Manholes or clean-outs exist at the end of each sewer line(s). These locations are listed below: (Please attach additional sheet if necessary)

Table 2 - Manholes and Cleanouts

Line	*Shown on Sheet*	*Station*	*Manhole or Clean-out?*
WW A	13 Of 20	1+09.17	MH
WW A	13 Of 20	1+64.82	MH
WW A	13 Of 20	2+59.00	MH
WWA	13 Of 20	3+54.37	MH
WW A	13 Of 20	3+69.15	MH
WW A	13 Of 20	4+15.92	MH
WW A-1	13 Of 20	0+36.38	MH

Line	*Shown on Sheet*	*Station*	*Manhole or Clean-out?*
	Of		
	Of		
	Of		

15. ☒ Manholes are installed at all Points of Curvature and Points of Termination of a sewer line.

16. ☒ The maximum spacing between manholes on this project for each pipe diameter is no greater than:

Pipe Diameter (inches)	Max. Manhole Spacing (feet)
6 - 15	500
16 - 30	800
36 - 48	1000
≥54	2000

☒ **Attachment C – Justification for Variance from Maximum Manhole Spacing**. The maximum spacing between manholes on this project (for each pipe diameter used) is greater than listed in the table above. A justification for any variance from the maximum spacing is attached, and must include a letter from the entity which will operate and maintain the system stating that it has the capability to maintain lines with manhole spacing greater than the allowed spacing.

17. ☐ All manholes will be monolithic, cast-in-place concrete.

☒ The use of pre-cast manholes is requested for this project. The manufacturer's specifications and construction drawings, showing the method of sealing the joints, are attached.

Site Plan Requirements

Items 18 - 25 must be included on the Site Plan.

18. ☒ The Site Plan must have a minimum scale of 1" = 400'.

Site Plan Scale: 1" = 20'.

19. ☒ The Site Plan must include the sewage collection system general layout, including manholes with station numbers, and sewer pipe stub outs (if any). Site plan must be overlain by topographic contour lines, using a contour interval of not greater than ten feet and showing the area within both the five-year floodplain and the 100-year floodplain of any drainage way.

20. Lateral stub-outs:

☐ The location of all lateral stub-outs are shown and labeled.
☒ No lateral stub-outs will be installed during the construction of this sewer collection system.

21. Location of existing and proposed water lines:

☒ The entire water distribution system for this project is shown and labeled.
☐ If not shown on the Site Plan, a Utility Plan is provided showing the entire water and sewer systems.
☐ There will be no water lines associated with this project.

22. 100-year floodplain:

☒ After construction is complete, no part of this project will be in or cross a 100-year floodplain, either naturally occurring or manmade. (Do not include streets or concrete-lined channels constructed above of sewer lines.)
☐ After construction is complete, all sections located within the 100-year floodplain will have water-tight manholes. These locations are listed in the table below and are shown and labeled on the Site Plan. (Do not include streets or concrete-lined channels constructed above sewer lines.)

Table 3 - 100-Year Floodplain

Line	*Sheet*	*Station*
	of	to
	of	to
	of	to
	of	to

23. 5-year floodplain:

☒ After construction is complete, no part of this project will be in or cross a 5-year floodplain, either naturally occurring or man-made. (Do not include streets or concrete-lined channels constructed above sewer lines.)
☐ After construction is complete, all sections located within the 5-year floodplain will be encased in concrete or capped with concrete. These locations are listed in the table below and are shown and labeled on the Site Plan. (Do not include streets or concrete-lined channels constructed above sewer lines.)

Table 4 - 5-Year Floodplain

Line	*Sheet*	*Station*
	of	to
	of	to
	of	to
	of	to

24. ☒ Legal boundaries of the site are shown.

25. ☒ The ***final plans and technical specifications*** are submitted for the TCEQ's review. Each sheet of the construction plans and specifications are dated, signed, and sealed by the Texas Licensed Professional Engineer responsible for the design on each sheet.

Items 26 - 33 must be included on the Plan and Profile sheets.

26. ☒ All existing or proposed water line crossings and any parallel water lines within 9 feet of sewer lines are listed in the table below. These lines must have the type of pressure rated pipe to be installed shown on the plan and profile sheets. Any request for a variance from the required pressure rated piping at crossings must include a variance approval from 30 TAC Chapter 290.

☐ There will be no water line crossings.
☐ There will be no water lines within 9 feet of proposed sewer lines.

Table 5 - Water Line Crossings

Line	*Station or Closest Point*	*Crossing or Parallel*	*Horizontal Separation Distance*	*Vertical Separation Distance*
WW A	1+09.17	CROSSING		EX. UNKNOWN
WW A	1+61.17	CROSSING		1'-6"
WW A	3+93	CROSSING		1'-6"

27. Vented Manholes:

☒ **No part** of this sewer line is within the 100-year floodplain and vented manholes are not required by 30 TAC Chapter 217.
☐ **A portion** of this sewer line is within the 100-year floodplain and vented manholes will be provided at less than 1500 foot intervals. These water-tight manholes are listed in the table below and labeled on the appropriate profile sheets.
☐ **A portion** of this sewer line is within the 100-year floodplain and an alternative means of venting shall be provided at less than 1500 feet intervals. A description of the alternative means is described on the following page.
☐ **A portion** of this sewer line is within the 100-year floodplain; however, there is no interval longer than 1500 feet located within. No vented manholes will be used.

Table 6 - Vented Manholes

Line	*Manhole*	*Station*	*Sheet*

Line	*Manhole*	*Station*	*Sheet*

28. Drop manholes:

☒ There are no drop manholes associated with this project.
☐ Sewer lines which enter new or existing manholes or "manhole structures" higher than 24 inches above the manhole invert are listed in the table below and labeled on the appropriate profile sheets. These lines meet the requirements of 30 TAC §217.55(l)(2)(H).

Table 7 - Drop Manholes

Line	*Manhole*	*Station*	*Sheet*

29. Sewer line stub-outs (For proposed extensions):

☐ The placement and markings of all sewer line stub-outs are shown and labeled.
☒ No sewer line stub-outs are to be installed during the construction of this sewage collection system.

30. Lateral stub-outs (For proposed private service connections):

☐ The placement and markings of all lateral stub-outs are shown and labeled.
☒ No lateral stub-outs are to be installed during the construction of this sewage collection system.

31. Minimum flow velocity (From Appendix A)

☒ Assuming pipes are flowing full; all slopes are designed to produce flows equal to or greater than 2.0 feet per second for this system/line.

32. Maximum flow velocity/slopes (From Appendix A)

☒ Assuming pipes are flowing full, all slopes are designed to produce maximum flows of less than or equal to 10 feet per second for this system/line.
☐ **Attachment D – Calculations for Slopes for Flows Greater Than 10.0 Feet per Second.** Assuming pipes are flowing full, some slopes produce flows which are greater than 10 feet per second. These locations are listed in the table below. Calculations are attached.

Table 8 - Flows Greater Than 10 Feet per Second

Line	*Profile Sheet*	*Station to Station*	*FPS*	*% Slope*	*Erosion/Shock Protection*

33. Assuming pipes are flowing full, where flows are ≥ 10 feet per second, the provisions noted below have been made to protect against pipe displacement by erosion and/or shock under 30 TAC §217.53(l)(2)(B).

☐ Concrete encasement shown on appropriate Plan and Profile sheets for the locations listed in the table above.
☐ Steel-reinforced, anchored concrete baffles/retards placed every 50 feet shown on appropriate Plan and Profile sheets for the locations listed in the table above.
☒ N/A

Administrative Information

34. ☒ The final plans and technical specifications are submitted for TCEQ review. Each sheet of the construction plans and specifications are dated, signed, and sealed by the Texas Licensed Professional Engineer responsible for the design on each sheet.

35. ☐ Standard details are shown on the detail sheets, which are dated, signed, and sealed by the Texas Licensed Professional Engineer, as listed in the table below:

Table 9 - Standard Details

Standard Details	*Shown on Sheet*
Lateral stub-out marking **[Required]**	08 of C21
Manhole, showing inverts comply with 30 TAC §217.55(l)(2) **[Required]**	01 of C21
Alternate method of joining lateral to existing SCS line for potential future connections **[Required]**	07 of C21
Typical trench cross-sections **[Required]**	03 of C72
Bolted manholes **[Required]**	03 of C21
Sewer Service lateral standard details **[Required]**	02 of C72
Clean-out at end of line **[Required, if used]**	of
Baffles or concrete encasement for shock/erosion protection **[Required, if flow velocity of any section of pipe >10 fps]**	of
Detail showing Wastewater Line/Water Line Crossing **[Required, if crossings are proposed]**	of
Mandrel detail or specifications showing compliance with 30 TAC §217.57(b) and (c) **[Required, if Flexible Pipe is used]**	of

Standard Details	*Shown on Sheet*
Drop manholes **[Required, if a pipe entering a manhole is more than 24 inches above manhole invert]**	of

36. ☒ All organized sewage collection system general construction notes (TCEQ-0596) are included on the construction plans for this sewage collection system.

37. ☐ All proposed sewer lines will be sufficiently surveyed/staked to allow an assessment prior to TCEQ executive director approval. If the alignments of the proposed sewer lines are not walkable on that date, the application will be deemed incomplete and returned.

    ☒ Survey staking was completed on this date: 02-15-23

38. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.

39. ☒ Any modification of this SCS application will require TCEQ approval, prior to construction, and may require submission of a revised application, with appropriate fees.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Organized Sewage Collection System Application** is hereby submitted for TCEQ review and executive director approval. The system was designed in accordance with the requirements of 30 TAC §213.5(c) and 30 TAC §217 and prepared by:

Print Name of Licensed Professional Engineer: TERRY R. HAGOOD

Date: 06/12/2024

Place engineer's seal here:

Signature of Licensed Professional Engineer:

Appendix A-Flow Velocity Table

Flow Velocity (Flowing Full) All gravity sewer lines on the Edwards Aquifer Recharge Zone shall be designed and constructed with hydraulic slopes sufficient to give a velocity when flowing full of not less than 2.0 feet per second, and not greater than 10 feet per second. The grades shown in the following table are based on Manning's formula and an n factor of 0.013 and shall be the minimum and maximum acceptable slopes unless provisions are made otherwise.

Table 10 - Slope Velocity

Pipe Diameter(Inches)	*% Slope required for minimum flow velocity of 2.0 fps*	*% Slope which produces flow velocity of 10.0 fps*
6	0.50	12.35
8	0.33	8.40
10	0.25	6.23
12	0.20	4.88
15	0.15	3.62
18	0.11	2.83
21	0.09	2.30
24	0.08	1.93
27	0.06	1.65
30	0.055	1.43
33	0.05	1.26
36	0.045	1.12
39	0.04	1.01
>39	*	*

**For lines larger than 39 inches in diameter, the slope may be determined by Manning's formula (as shown below) to maintain a minimum velocity greater than 2.0 feet per second when flowing full and a maximum velocity less than 10 feet per second when flowing full.*

$$v = \frac{1.49}{n} \times R_h^{0.67} \times \sqrt{S}$$

Figure 1 - Manning's Formula

Where:

v = velocity (ft/sec)
n = Manning's roughness coefficient (0.013)
Rh = hydraulic radius (ft)
S = slope (ft/ft)

Sewage Collection System
Engineering Design Report

YMCA METRO OFFICES – 1826 N. MAYS ST.

Submitted to:

Texas Commission on Environmental Quality

Region 11 Office

12100 Park 35 Circle

Building A

Room 179

Austin, TX 78753

(512) 339-2929

June 10, 2024

This engineering design report is intended to fulfil the requirements set forth in 30 TAC Chapter 217, including Chapter 217.10 of Subchapter A (Administrative Requirements) and §§217.51-217.70 of Subchapter C (Conventional Collection Systems). Subchapter D (Alternative Collection Systems) is not applicable for this report.

Site Location

The 9.73 acre site is located at 1826 N. Mays St. in Williamson County, within the City of Round Rock Corporate Limits. The project site and service area are indicated on the construction plans accompanying the SCS submittal information and is shown in general form in the Appendix of this report.

The wastewater system has been designed to convey the flow from the entire development. The proposed development will consist of 1 Commercial building with associated earthwork, paving and parking lot, sidewalks, site utilities, stormwater management system and landscaping/vegetation.

The existing buildings will also discharge into this SCS as noted in sheet __ of the attached construction plan set.

Design Flow Determination

The wastewater flows from this site will be commercial in nature. The wastewater loading is based upon Commercial Public Facility and Swimming Pool backwash. The design flow determination is shown in the attached table. The Infiltration and Inflow rate is based upon 750 gallons per day over 9.73 acres of developed area.

Land Use Collection Basin Parcel Areas Flow Analysis
Wastewater Line

Parcel	Existing Land Use	GFA	GFA	Loading	Unit	Quantity	Daily Volume	time period	ADWF	Peaking Factor	PDWF	I&I[1]	PWWF	Notes
	Category	acres	sf	gal/day			gallons	hours	gpm		gpm	gpm	gpm	
WWL A														
CHASCO YMCA METRO OFFICES	COMMERCIAL	9.73	8,000.00	20	persons	10.00	200	9	0.37	4.43	1.64	5.07	6.71	Occupancy - 10 employees
CHASCO YMCA FAMILY (AQUATICS)	COMMERCIAL (POOL BACKWASH)	9.73	N/A	300	minutes	10.00	300	0.16667	30.00	3.96	118.70	5.07	123.77	Swimming Pool Backwashing
CHASCO FAMILY (AQUATICS)	COMMERCIAL (DOMESTIC)	9.73		20	persons	400.00	8000	12	11.11	4.15	46.09	5.07	51.16	Occupancy - 400
	Total	**29.19**					**8500.00**		**41.48**		**166.43**	**15.20**	**181.63**	

The flows are expected in the pipes immediately following construction completion and are not expected to increase at the end of its 50-year life. Additionally, odor control measures are not anticipated in this system.

The capacity of the existing system will be reviewed and approved by the City of Round Rock. The proposed system will gravity flow into the existing public wastewater infrastructure in May St. and will not require the use of a lift station and force main. The City of Round Rock public wastewater will convey flow to the Brushy Creek Regional Wastewater Treatment Plant. The proposed system is new construction and existing.

Pipe Design

The wastewater collection system has been designed to transport the peak wet weather flow from the service area, plus the inflow and infiltration as discussed above. These were designed to ensure that the peak dry weather flow shall not exceed 65% of the capacity of the pipe flowing full and also the peak wet weather flow shall not exceed 85% of the capacity of the pipe flowing full. The collection system piping consists of 391 LF of 8" SDR 26 PVC at a min. slope of 1.0%. The pipe can be seen in plan and profile in the construction drawings accompanying this report and the TCEQ Form 0582 (Organized Sewage Collection System Application).

The gravity wastewater pipe specified is a PVC SDR-26 pipe conforming to ASTM D3034 with a pipe stiffness of 115 psi. The 8" diameter pipe has an outside diameter of 8.4 inches, inside diameter of 7.92 inches, wall thickness of 0.240 inches. The permissible slopes within the Edwards Aquifer Recharge Zone, according to Appendix A of the SCS application are 0.33% to 8.40%. The velocity at the minimum and maximum slopes with the pipe flowing full is greater than 2 fps and less than 10 fps, respectively.

The detailed design of the pipe has taken the following into account: the characteristic of the wastewater conveyed, the possibility of septic conditions, the possibility of external forces, and the possibility of groundwater, internal pressure and the abrasion and corrosion resistance of the pipe material.

The separation distance for all points where a wastewater or force main line crosses a public water supply or service are:

- Vertical separation must be at least 18" in accordance with the TAC Title 30 Part 1 Chapter 290 Subchapter D Rules 290 and TAC Chapter 217
- Wastewater pipe has a minimum pressure rating of at least 150 PSI.
- One segment of wastewater pipe with minimum pressure rating of 150 psi is to be centered on water line crossing.

For wastewater or force main lines that parallel public water services:

- Vertical separation must be at least two feet from outside diameter of pipe
- Horizontal separation must be 4 feet from outside diameters of pipe
- Wastewater or force main lines must be below water lines.

Details for these crossings are noted on plan sheet C60.

This system will not be within 50 feet of an active fault. A geologic assessment has been submitted with this submittal.

The manholes are in compliance with §217.55 of the TAC. Manholes are located at points all intersections of pipes. There are clean-outs associated with this system as noted within the plan set. There will be no tunnels associated with this project. Manhole specifications and construction drawings are located in the plan sheets. The method of sealing the joints is depicted on drawing no. WW-10, as detail 11 on sheet C72 and for gasketed manholes the Owner must follow the national reference standard for the gasket type.

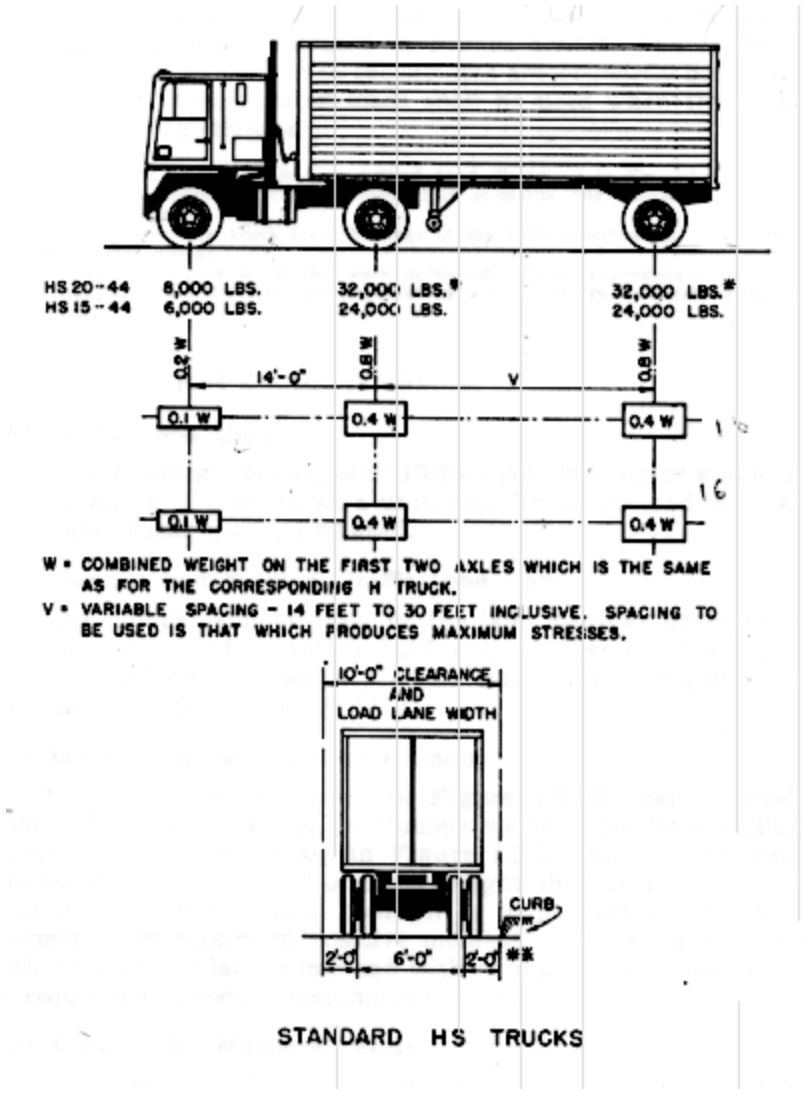
Structural Analysis

The SDR-26 PVC Pipe is a flexible conduit that takes advantage of the support capacity of the surrounding earth by transferring a major portion of the load directly to it. Deflection of the pipe varies with stiffness, class and density of the soil, degree of compaction, burial depth and live load.

The sewer pipe will be placed in an excavated trench and subsequently backfilled. The details of the trench can be found on the accompanying construction plans on the detail sheet. Watertight, size on size resilient connectors conforming to ASTM C-923 will be used for connecting to a manhole as shown in detail WW-10 (see accompanying construction plans). The bedding method will be compacted granular fill or densely compacted backfill and therefore will be Class C as shown in NAVFAC Design Manual DM-7.1, May 1982, Figure 18, Pg. 7.1-186. Bedding is required to establish line and grade and to provide firm pipe support. The Bedding materials will be Class IA (open-graded, clean manufactured aggregates, ASTM D 2321) with 6 in. minimum between the excavation lines ("foundation") to equalize load distributions along the invert of the pipe.

Live Load Calculation

The live loads that can be included in buried pipe are truck load, car load, train load and any other type of non-concentrated, surcharge, load (ex. equipment, piles of stored materials, debris). Vehicular loads are typically based on The American Association of State Highway and Transportation Officials (AASHTO) standard truck loadings. For calculating the soil pressure on flexible pipe, the loading is normally assumed to be an H20 (HS20) truck. A standard H20 truck has a total weight of 40,000 lbs. (20 tons). The weight is distributed with 8,000 lbs. on the front axle and 32,000 lbs. on the rear axle. The HS20 truck is a tractor and trailer unit having the same axle loadings as the H20 truck but with two rear axles. For these trucks, the maximum wheel load is found at the rear axle(s) and equals 40 percent of the total weight of the truck. The maximum wheel load may be used to represent the static load applied by either a single axle or tandem axles. The heaviest tandem axle loads normally encountered on highways are around 40,000 lbs. (20,000 lbs per wheel).

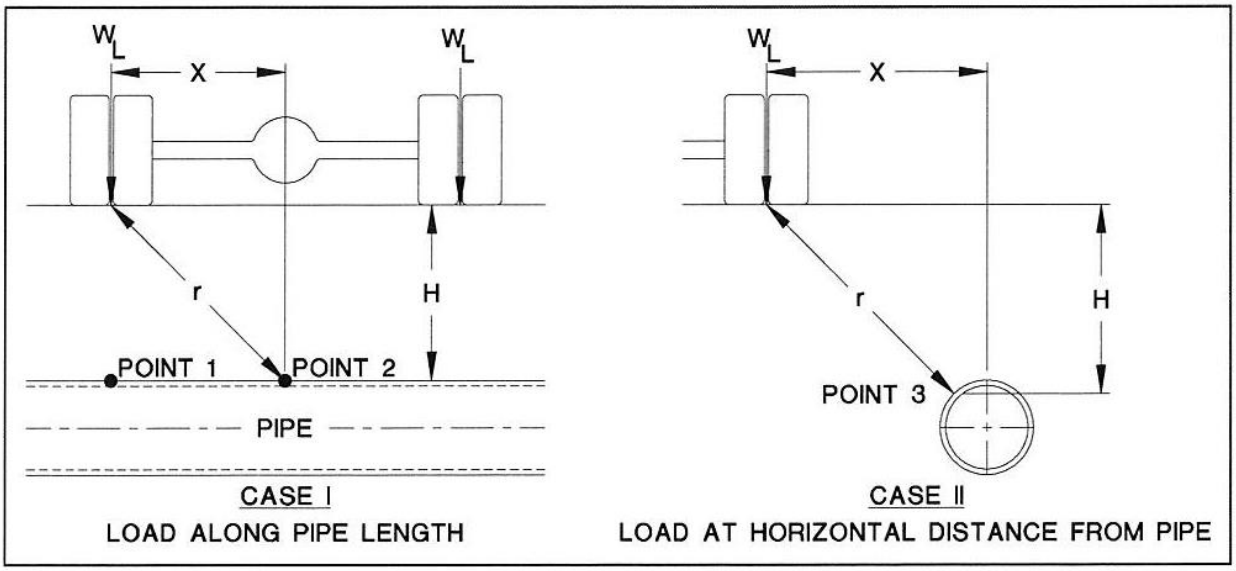


The Boussinesq Equation gives the pressure at any point in a soil mass under a concentrated surface load. The Boussinesq Equation may be used to find the pressure transmitted from a wheel load to a point that is not along the line of action of the load. Pavement effects are neglected.

$$P'_L = \frac{3 I_f W_w H^3}{2\pi r^5}$$

P_L = vertical soil pressure due to live load (psf)
W_w = wheel load, (20,000 lb)
H = vertical depth to pipe crown, (min. 3.5 ft)
I_f = impact factor (1.0)
r = distance from the point of load application to pipe crown, ft

$$r = \sqrt{X^2 + H^2}$$



For the proposed project, H = 2.5 ft.
r = $(o^2+2.5^2)^{0.5}$=2.5 ft.
P_L = $(3*1.0*20{,}000*2.5^3)/ (2*\pi*2.5^5)$ = 1527.89 psf. = 10.61 psi

Buckling Analysis

Predicted and allowable buckling pressures must be calculated for each size of pipe and type of flexible pipe material.

$$q_a = 0.4 * \sqrt[2]{32 * R_w * B' * E_b * (E * I / D^3)}$$ = 6,866.80 psi for a 8" diameter pipe

$$B' = \frac{1}{1 + 4 * e^{-0.065H}}$$

q_a = Allowable buckling pressure, pounds per square inch (psi)

R_w =1; Water buoyancy factor. If (height of water surface above the top of the pipe) h_w = 0.

H = Depth of burial in feet (ft) from ground surface to crown of pipe. (2.5 feet min for the proposed project)

B'= Empirical coefficient of elastic support

E_b= Modulus of soil reaction for the bedding material (1,000 psi)

E = Modulus of elasticity of the pipe material (400,000 psi min for PVC)

I = moment of inertia of the pipe wall cross section per linear inch of pipe, $inch^4$/lineal inch

D = mean pipe diameter (8 in)

Hollow Cylindrical Cross Section: $I = \pi (d_o^4 - d_i^4) / 64 =$ **51.253** in^4 for a 8" diameter pipe

Where d_o = cylinder outside diameter; d_i = cylinder inside diameter

AVERAGE VALUES OF MODULUS OF SOIL REACTION, E'
(For Initial Flexible Pipe Deflection)

Soil type-pipe bedding material (Unified Classification System[a]) (1)	E' for Degree of Compaction of Pipe Zone Backfill, psi			
	Loose (2)	Slight <85% Proctor, <40% relative density (3)	Moderate 85%-95% Proctor, 40%-70% relative density (4)	High >95% Proctor, >70% relative density (5)
Fine-grained Soils (LL > 50)[b] Soils with medium to high plasticity CH, MH, CH-MH	No data available; consult a competent soils engineer; Otherwise use E' = 0			
Fine-grained Soils (LL < 50) Soils with medium to no plasticity CL, ML, ML-CL, with less than 25% coarse-grained particles	50	200	400	1,000
Fine-grained Soils (LL < 50) Soils with medium to no plasticity CL, ML, ML-CL, with more than 25% coarse-grained particles Coarse-grained Soils with Fines GM, GC, SM, SC[c] contains more than 12% fines	100	400	1,000	2,000
Coarse-grained Soils with Little or No Fines GW, GP, SW, SP[c] contains less than 12% fines	200	1,000	2,000	3,000
Crushed Rock	1,000	3,000	3,000	3,000
Accuracy in Terms of Percentage Deflection[d]	±2	±2	±1	±0.5

[a]ASTM Designation D 2487, USBR Designation E-3.
[b]LL = Liquid limit.
[c]Or any borderline soil beginning with one of these symbols (i.e., GM-GC, GC-SC).
[d]For ±1% accuracy and predicted deflection of 3%, actual deflection would be between 2% and 4%.
Note: Values applicable only for fills less than 50 ft (15 m). Table does not include any safety factor. For use in predicting initial deflections only, appropriate Deflection Lag Factor must be applied for long-term deflections. If bedding falls on the borderline between two compaction categories, select lower E' value or average the two values. Percentage Proctor based on laboratory maximum dry density from test standards using about 12,500 ft-lb/cu ft (598,000 J/m^3) (ASTM D 698, AASHTO T-99, USBR Designation E-11). 1 psi = 6.9 kN/m^2.

SOURCE: "Soil Reaction for Buried Flexible Pipe," by Amster K. Howard, U.S. Bureau of Reclamation, Denver, Colorado. Reprinted with Permission from American Society of Civil Engineers Journal of Geotechnical Engineering Division, January 1977, pp. 33-43.

Prism Load Calculations

The prism load calculations are equal to the assumed weight of soil over the pipe. The approximate dry density of the soil in the backfill as shown is 120 pcf. The total prism load is calculated by:

P = Density x Height of the soil = 120 pcf * 2.5 ft. = 300 psf = **2.083 psi**

The Modified Iowa Equation is used for predicting deflection in buried flexible pipe:

$$\%Deflection = \frac{\%\Delta Y}{D} = \frac{(D_L KP + KW^i)(100)}{[2E/(3(DR-1)^3)] + 0.061E'}$$

Where:
D_L = Deflection Lag Factor=1.0 (Typical)
K = Bedding Constant=0.1 (Typical)
P = Prism Load=Weight of soil over pipe (2.083 psi, above)
W' = Live Load (10.61 psi, calculated above)
E = Modulus of Elasticity=400,000 psi minimum for PVC
DR = Dimension Ratio (OD/t) (8.40/0.240=35)
E' = Modulus of Soil Reaction (1,000 psi)

Δ= 1.87%

The maximum deflection allowed is 5%. This pipe meets this specification.

Q_p = Pressure applied to the pipe under installed conditions (psi) = Live load + Prism load

q_p= 10.61 psi+2.083 psi=12.693 psi

$q_a \geq q_p$ for the specified pipe and is acceptable for the proposed installation.

Wall Crushing

The project does not propose any trenchless installation and no vertical curvature between manholes is anticipated. Additionally, the project does not include any horizontally curved gravity sanitary sewer piping. Should any horizontal curves be required as an immediate field change, it shall be a minimum of 300*8.40 in= 2,520 inches= 210 feet.

The curves will be provided by pipe flexure and in no case will any joint flexure be allowed. All joints will be installed fully seated per the manufacturer's recommendation.

There will be no concrete encased flexible pipe with the proposed project. If encased flexible pipe is needed in the future, it shall be installed in a rigid encasement and installed at a maximum depth of:

$H= (24*P_C*A)/ (£*D_O)$

Where

P_C=compressive stress (4,000 psi for PVC pipe)

A=surface area of the pipe wall (in^2/ft)

£=specific weight of the soil (pcf)

D_O=outside pipe diameter (in)

The flexible pipe will be installed under favorable ambient temperature conditions and no provisions will be needed to ensure adequate installation.

The conditions of this installation are such that strain related failure is not anticipated within the 50-year life.

Pressure loss in fittings

Calculations:

$$zeta = \frac{1.44}{f + (1.44 - f) * (E_b / E_{n'})}$$

$$f = \frac{\frac{b}{d_a - 1}}{1.154 + 0.444 * (\frac{b}{d_a - 1})}$$

f =Pipe/trench width coefficient

b =Trench width (OD+12″ =8.4+12″ =20.4″)

d_a =Pipe diameter (8.40 in)

E_b =Modulus of soil reaction for the bedding material (1,000 psi)

E_n =Modulus of soil reaction for the in-situ soil (1.67 psi)

Pressure loss factor = Zeta = 0.0085 for 8″ pipes.

Pipe Stiffness

Pipe stiffness (P_s) in psi can be determined either by parallel plate test at 5% deflection, based on manufacturer's data or national reference standards; or, calculated using the following equation. The minimum pipe stiffness for PVC pipe less than 15 inches in diameter meeting ASTM D 3034 is 115 psi for SDR 26.

$$P_s = \frac{EI}{0.149 * r^3}$$

E = modulus of elasticity of the pipe material (400 ksi)

I =moment of inertia of the pipe wall cross section per linear inch of pipe, $inch^4$/lineal inch = $inch^3$. (51.253 in^4/12 in=4.27)

D =mean pipe diameter and (8 in)

r =mean radius (4 in)

P_S= (400*1.74)/ (0.149*3^3) =179.11 psi

In order to ensure that the stiffness being provided to the installation has a reasonable contribution from pipe stiffness, and does not rely solely on the stiffness provided by the soil stiffness factor (SSF), the ratio of P_s/SSF must be calculated. This process must be repeated until P_s/SSF ≥ 0.15 exists for all proposed pipe sizes and for all types of flexible pipe materials.

$$\frac{P_s}{SSF} = \frac{P_s}{0.061 * zeta * E_b} \geq 0.15$$

P_s =Pipe stiffness (179.11 psi, above)

E_b =modulus of soil reaction for the bedding material (1,000 psi)

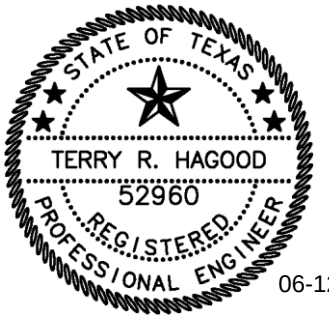
zeta =1.0, or a value calculated above, for 8" size pipe

SSF =soil stiffness factor (0.061*zeta*E_b)

SSF (at zeta of value 1.0) = 0.061 x 1 x 1000 = 61

Ps/SSF=179.11/61=2.93

Based upon the above calculations, the 8" SDR-26 Pipes are adequate for the proposed installation as noted on the accompanying plan sheets.



06-12-2024

Temporary Stormwater Section

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b)(4)(A), (B), (D)(I) and (G); Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Temporary Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

Print Name of Customer/Agent: TERRY R. HAGOOD

Date: 6/12/2024

Signature of Customer/Agent:

Regulated Entity Name: YMCA METRO OFFICE

Project Information

Potential Sources of Contamination

Examples: Fuel storage and use, chemical storage and use, use of asphaltic products, construction vehicles tracking onto public roads, and existing solid waste.

1. Fuels for construction equipment and hazardous substances which will be used during construction:

   ☐ The following fuels and/or hazardous substances will be stored on the site: _____

   These fuels and/or hazardous substances will be stored in:

   ☐ Aboveground storage tanks with a cumulative storage capacity of less than 250 gallons will be stored on the site for less than one (1) year.

☐ Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.

☐ Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.

☒ Fuels and hazardous substances will not be stored on the site.

2. ☒ **Attachment A - Spill Response Actions**. A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.

3. ☒ Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.

4. ☒ **Attachment B - Potential Sources of Contamination**. A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.

Sequence of Construction

5. ☒ **Attachment C - Sequence of Major Activities**. A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is attached.

   ☐ For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.

   ☒ For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.

6. ☒ Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: ONION BRANCH

Temporary Best Management Practices (TBMPs)

Erosion control examples: tree protection, interceptor swales, level spreaders, outlet stabilization, blankets or matting, mulch, and sod. Sediment control examples: stabilized construction exit, silt fence, filter dikes, rock berms, buffer strips, sediment traps, and sediment basins. Please refer to the Technical Guidance Manual for guidelines and specifications. All structural BMPs must be shown on the site plan.

7. ☒ **Attachment D – Temporary Best Management Practices and Measures**. TBMPs and measures will prevent pollution of surface water, groundwater, and stormwater. The construction-phase BMPs for erosion and sediment controls have been designed to retain sediment on site to the extent practicable. The following information is attached:

☒ A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site.

☒ A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.

☒ A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.

☒ A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.

8. ☒ The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.

☐ **Attachment E - Request to Temporarily Seal a Feature**. A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.

☒ There will be no temporary sealing of naturally-occurring sensitive features on the site.

9. ☒ **Attachment F - Structural Practices**. A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided.

10. ☒ **Attachment G - Drainage Area Map**. A drainage area map supporting the following requirements is attached:

☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.

☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.

☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.

☐ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.

☒ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used.

11. ☐ **Attachment H - Temporary Sediment Pond(s) Plans and Calculations**. Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.

    ☒ N/A

12. ☒ **Attachment I - Inspection and Maintenance for BMPs.** A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.

13. ☒ All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.

14. ☒ If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).

15. ☒ Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.

16. ☒ Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

Soil Stabilization Practices

Examples: establishment of temporary vegetation, establishment of permanent vegetation, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, or preservation of mature vegetation.

17. ☒ **Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices**. A schedule of the interim and permanent soil stabilization practices for the site is attached.

18. ☒ Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.

19. ☒ Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

Administrative Information

20. ☒ All structural controls will be inspected and maintained according to the submitted and approved operation and maintenance plan for the project.

21. ☒ If any geologic or manmade features, such as caves, faults, sinkholes, etc., are discovered, all regulated activities near the feature will be immediately suspended. The appropriate TCEQ Regional Office shall be immediately notified. Regulated activities must cease and not continue until the TCEQ has reviewed and approved the methods proposed to protect the aquifer from any adverse impacts.

22. ☒ Silt fences, diversion berms, and other temporary erosion and sediment controls will be constructed and maintained as appropriate to prevent pollutants from entering sensitive features discovered during construction.

TEMPORARY STORWATER SECTION

Attachments to form TCEQ-0602

ATTACHMENT A

There are several factors that could affect surface and ground water quality. During construction, fuels and hazardous substances could spill. These spills shall be contained on-site and immediately cleaned up and properly discarded. Any spills or discharges of oil, petroleum products and used oil onto land having a volume greater than 25 gallons, and spills or discharges directly into waters of the state having a quantity sufficient enough to create a sheen, shall be reported immediately to TCEQ at (512) 339-2929 or the State Emergency Response Center at 1-800-832-8224. There are no significant factors proposed which could affect surface and ground water quality relating to the permanent use of the facility.

ATTACHMENT B

Potential Sources of Contamination:

1. Soil disturbance during construction.
2. Hydrocarbon-based fluids from Construction Equipment.
3. Landscaping – Fertilizer and Pesticides.

ATTACHMENT C

Sequence of major activities for each phase is as follows:

1. The installation of Erosion/Sedimentation Controls –0.1 ac. Disturbed
2. Clearing, grubbing, and removal of topsoil from entire site – 1.0 ac. Disturbed
3. Rough grading and building pad excavation – 1.0 ac. Disturbed
4. Excavating for utilities – 0.3 ac. Disturbed
5. Finish grading and landscaping – 0.25 ac. Disturbed

ATTACHMENT D

The Temporary Best Management Practices (TBMP) for this project will consist of:

1. A stabilized construction entrance.
2. Silt fencing along North Mays ROW boundary of site.
3. Grate Inlet protection to prevent existing inlet from getting clogged up by silt.
4. A concrete washout station.

All TBMP's will be in place prior to any regulated activities commencing. The stabilized construction entrance will remove excess spoils from construction vehicles leaving the site. The silt fencing will collect silt runoff and debris during construction activities. These controls will be maintained during construction and will remain until after all construction activities are complete and permanent re-vegetation is established.

ATTACHMENT F

Due to the limited area of disturbance, the filter dike, inlet protection, concrete washout area, staging area and stabilized construction entrance/exit will provide control to retain any runoff from the exposed site.

TEMPORARY STORWATER SECTION

Attachments to form TCEQ-0602

ATTACHMENT G

Refer to the drawings, sheet EDA and PDA.

ATTACHMENT H

The total limit of construction area is 1.01 acres with a disturbed area of 1.0 acres and will not require a temporary sediment pond.

ATTACHMENT I

The contractor is required to inspect all of the erosion and sediment controls, fences, inlet protection, stabilized construction entrance and concrete washout at weekly intervals and after significant rainfall events to insure that they are functioning properly. The person(s) responsible for maintenance of controls and fences shall immediately make any necessary repairs to damaged areas. Silt accumulation at controls must be removed when the depth reaches six (6) inches. Records described in the SWPPP must be retained on site for 5 years beyond the date of the cover letter notifying the facility of coverage under a storm water permit, and shall be made available to the state or federal compliance inspection officer upon request. Additionally, employee training records and waste and recycling receipts or vouchers shall also be maintained.

ATTACHMENT J

Schedule of Interim Soil Stabilization Practices:

1. Erosion and sediment control measures including perimeter sediment controls must be in place before vegetation is disturbed and must remain in place and be maintained and repaired.
2. Temporary stabilization or covering of soil stockpiles and protection of stockpile located away from construction activity must be maintained
3. Should construction activities cease for fifteen (15) days or more on any significant portion of the construction site, temporary stabilization is required for that portion of the site to prevent soil and wind erosion until work resumes on that portion of the site.
4. Should all construction activities cease for thirty days or more, the entire site must be temporarily stabilized using vegetation or a heavy mulch layer, temporary seeding or other method.

Schedule of Permanent Soil Stabilization Practices:

1. Stabilized any unpaved area that is final grade or remain unpaved for the next two weeks. Permanent stabilization may consist of sodding, seeding, or mulching that must be maintained to prevent erosion from the site until re-vegetation has achieved 70% coverage
2. Once construction is complete, remove all the pollution prevention measures that were temporary.

Agent Authorization Form
For Required Signature
Edwards Aquifer Protection Program
Relating to 30 TAC Chapter 213
Effective June 1, 1999

I JEFF ANDRESEN,
Print Name

PRESIDENT,
Title - Owner/President/Other

of YMCA OF GREATER WILLIAMSON COUNTY,
Corporation/Partnership/Entity Name

have authorized TERRY R. HAGOOD
Print Name of Agent/Engineer

of HAGOOD ENGINEERING ASSOCIATES, INC.
Print Name of Firm

to represent and act on the behalf of the above named Corporation, Partnership, or Entity for the purpose of preparing and submitting this plan application to the Texas Commission on Environmental Quality (TCEQ) for the review and approval consideration of regulated activities.

I also understand that:

1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to $10,000 per day per violation.

2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.

3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.

4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.

5. No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.

SIGNATURE PAGE:

Applicant's Signature

5-30-23
Date

THE STATE OF Texas §

County of Williamson §

BEFORE ME, the undersigned authority, on this day personally appeared Jeff Andresen known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

GIVEN under my hand and seal of office on this 30th day of May, ____.

ARIEL YVETTE WHITE
Notary Public, State of Texas
Comm. Expires 05-12-2026
Notary ID 133758664

NOTARY PUBLIC

Ariel White
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 05/12/2026

Application Fee Form

Texas Commission on Environmental Quality
Name of Proposed Regulated Entity: YMCA METRO OFFICES
Regulated Entity Location: 1826 N. MAYS ROUND ROCK, TX 78664
Name of Customer: YMCA OF CENTRAL TEXAS
Contact Person: RICH CARLTON Phone: _____
Customer Reference Number (if issued):CN 601387905
Regulated Entity Reference Number (if issued):RN _____

Austin Regional Office (3373)

☐ Hays ☐ Travis ☒ Williamson

San Antonio Regional Office (3362)

☐ Bexar ☐ Medina ☐ Uvalde
☐ Comal ☐ Kinney

Application fees must be paid by check, certified check, or money order, payable to the **Texas Commission on Environmental Quality**. Your canceled check will serve as your receipt. **This form must be submitted with your fee payment**. This payment is being submitted to:

☒ Austin Regional Office
☐ Mailed to: TCEQ - Cashier
Revenues Section
Mail Code 214
P.O. Box 13088
Austin, TX 78711-3088

☐ San Antonio Regional Office
☐ Overnight Delivery to: TCEQ - Cashier
12100 Park 35 Circle
Building A, 3rd Floor
Austin, TX 78753
(512)239-0357

Site Location (Check All That Apply):

☒ Recharge Zone ☐ Contributing Zone ☐ Transition Zone

Type of Plan	***Size***	***Fee Due***
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	Acres	$
Sewage Collection System	453 L.F.	$ 650.00
Lift Stations without sewer lines	Acres	$
Underground or Aboveground Storage Tank Facility	Tanks	$
Piping System(s)(only)	Each	$
Exception	Each	$
Extension of Time	Each	$

Signature: 

Date: _____

Application Fee Schedule

Texas Commission on Environmental Quality
Edwards Aquifer Protection Program 30 TAC Chapter 213 (effective 05/01/2008)

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

Project	*Project Area in Acres*	*Fee*
One Single Family Residential Dwelling	< 5	$650
Multiple Single Family Residential and Parks	< 5 5 < 10 10 < 40 40 < 100 100 < 500 ≥ 500	$1,500 $3,000 $4,000 $6,500 $8,000 $10,000
Non-residential (Commercial, industrial, institutional, multi-family residential, schools, and other sites where regulated activities will occur)	< 1 1 < 5 5 < 10 10 < 40 40 < 100 ≥ 100	$3,000 $4,000 $5,000 $6,500 $8,000 $10,000

Organized Sewage Collection Systems and Modifications

Project	*Cost per Linear Foot*	*Minimum Fee-Maximum Fee*
Sewage Collection Systems	$0.50	$650 - $6,500

Underground and Aboveground Storage Tank System Facility Plans and Modifications

Project	*Cost per Tank or Piping System*	*Minimum Fee-Maximum Fee*
Underground and Aboveground Storage Tank Facility	$650	$650 - $6,500

Exception Requests

Project	*Fee*
Exception Request	$500

Extension of Time Requests

Project	***Fee***
Extension of Time Request	$150

TCEQ Core Data Form

TCEQ Use Only

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission *(If other is checked please describe in space provided)*

☒ New Permit, Registration or Authorization *(Core Data Form should be submitted with the program application)*

☐ Renewal *(Core Data Form should be submitted with the renewal form)* ☐ Other

2. Attachments **Describe Any Attachments:** *(ex. Title V Application, Waste Transporter Application, etc.)*

☒ Yes ☐ No SCS

3. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	4. Regulated Entity Reference Number *(if issued)*
CN 601387905		RN

SECTION II: Customer Information

5. Effective Date for Customer Information Updates (mm/dd/yyyy) 6/13/2019

6. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check only one of the following:*

☐ Owner ☐ Operator ☒ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ Voluntary Cleanup Applicant ☐ Other: _____

7. General Customer Information

☐ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State) ☒ No Change**

If "No Change" and Section I is complete, skip to Section III – Regulated Entity Information.

8. Type of Customer:	☐ Corporation	☐ Individual	☐ Sole Proprietorship- D.B.A
☐ City Government	☐ County Government	☐ Federal Government	☐ State Government
☐ Other	☐ General Partnership	☐ Limited Partnership	☒ Other: Non profit

9. Customer Legal Name *(If an individual, print last name first: ex: Doe, John)* *If new Customer, enter previous Customer below* *End Date:*

YMCA OF CENTRAL TEXAS

10. Mailing Address: 1812 N. MAYS STREET

City	ROUND ROCK	State	TX	ZIP	78664	ZIP + 4	

11. Country Mailing Information *(if outside USA)*

12. E-Mail Address *(if applicable)*

13. Telephone Number (512) 615-5555

14. Extension or Code

15. Fax Number *(if applicable)* ( ) -

16. Federal Tax ID *(9 digits)* 56638201

17. TX State Franchise Tax ID *(11 digits)*

18. DUNS Number *(if applicable)*

19. TX SOS Filing Number *(if applicable)*

20. Number of Employees

☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

21. Independently Owned and Operated?

☐ Yes ☒ No

SECTION III: Regulated Entity Information

22. General Regulated Entity Information *(If 'New Regulated Entity" is selected below this form should be accompanied by a permit application)*

☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information ☒ No Change** *(See below)*

If "NO CHANGE" is checked and Section I is complete, skip to Section IV, Preparer Information.

23. Regulated Entity Name *(name of the site where the regulated action is taking place)*

YMCA METRO OFFICES

24. Street Address of the Regulated Entity: *(No P.O. Boxes)*	1826 N. MAYS						
	City	ROUND ROCK	**State**	TX	**ZIP**	78664	**ZIP + 4**
25. Mailing Address:	1812 N. MAYS						
	City	ROUND ROCK	**State**	TX	**ZIP**	78664	**ZIP + 4**
26. E-Mail Address:							

27. Telephone Number	**28. Extension or Code**	**29. Fax Number** *(if applicable)*
(512) 615-5555		( ) -

30. Primary SIC Code (4 digits)	**31. Secondary SIC Code** (4 digits)	**32. Primary NAICS Code** (5 or 6 digits)	**33. Secondary NAICS Code** (5 or 6 digits)
8322	6732	561110	

34. What is the Primary Business of this entity? *(Please do not repeat the SIC or NAICS description.)*

NON PROFIT OFFICES

Questions 34 – 37 address geographic location. Please refer to the instructions for applicability.

35. Description to Physical Location:	665 FT SOUTH OF THE INTERSECTION OF TEXAS AVE AND N. MAYS

36. Nearest City	**County**	**State**	**Nearest ZIP Code**
ROUND ROCK	WILLIAMSON	TX	78664

37. Latitude (N) In Decimal:	30.527010		**38. Longitude (W) In Decimal:**	-97.687830	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
30	31	37.99	-97	41	13.08

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form or the updates may not be made. If your Program is not listed, check other and write it in. See the Core Data Form instructions for additional guidance.

☐ Dam Safety	☐ Districts	☒ Edwards Aquifer	☐ Industrial Hazardous Waste	☐ Municipal Solid Waste
☐ New Source Review – Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS	☐ Sludge
☐ Stormwater	☐ Title V – Air	☐ Tires	☐ Used Oil	☐ Utilities
☐ Voluntary Cleanup	☐ Waste Water	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

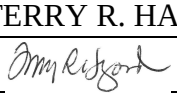
40. Name:	RAQUEL SAENZ	**41. Title:**	PROJECT ASSISTANT

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(512) 224-1546		( ) -	RAQUELR@HEAENG.COM

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 9 and/or as required for the updates to the ID numbers identified in field 39.

(See the Core Data Form instructions for more information on who should sign this form.)

Company:	HAGOOD ENGINEERING	**Job Title:**	PROJECT MANAGER
Name *(In Print)* :	TERRY R. HAGOOD	**Phone:**	(512) 244-1546
Signature:		**Date:**	2-28-2024

SITE DEVELOPMENT IMPROVEMENTS
SUBMITTED FOR
YMCA - METRO OFFICES
1826 N. MAYS STREET
ROUND ROCK, TEXAS 78664
SDP 23-00040

SITE LOCATION MAP

BENCHMARKS

TBM #1 - MAG NAIL.
ELEV = 750.03'
PLANE COORDINATE SYSTEM = TEXAS COORDINATE SYSTEM CENTRAL ZONE, NAD 83, US SURVEY FT.
VERTICAL DATUM - NAVD88 (GEOID 18)
DISTANCES AND AREAS ARE SURFACE VALUES

LEGAL DESCRIPTION

LOT 1A, BLOCK A, REPLAT OF ROUND ROCK YMCA ADDITION (9.73 AC., 423,839 SF)
DOC # (RECORDATION PENDING)

PLAN SUBMITTALS

NO.	DATE	COMMENTS
1	2023-03-15	50% PROGRESS SET TO OWNER
2	2024-01-16	TCEQ WPAP ADMINISTRATIVE SUBMITTAL
3	2024-02-06	100% CD TO CITY OF ROUND ROCK
4	2024-02-28	TCEQ WPAP MODIFICATION ADMINISTRATIVE UPDATE
5	2024-03-20	ISSUED FOR BID
6	2024-05-09	CITY OF ROUND ROCK ADD UPDATE #1
7	2024-05-29	TCEQ WPAP MODIFICATION NOD1 UPDATE
8	6/12/2024	TCEQ SCS SUBMITTAL
9		
10		

NOTES:

1. NO PORTION OF THE ABOVE LEGALLY DESCRIBED PROPERTY IS WITHIN THE DESIGNATED .1% ANNUAL CHANCE FLOODPLAIN AREA AS DESIGNATED BY F.E.M.A. FLOOD INSURANCE RATE MAP (FIRM) ON COMMUNITY PANEL NO. 48491C0489F, DATED DECEMBER 19, 2019 FOR THE CITY OF ROUND ROCK, WILLIAMSON COUNTY, TEXAS.
2. THIS PROPERTY IS WITHIN THE EDWARDS AQUIFER RECHARGE ZONE. PROJECT IS SUBJECT TO AN APPROVED WPAP.
3. THIS PROJECT IS PROVIDING ONSITE DETENTION AND IS NOT PARTICIPATING IN THE CITY OF ROUND ROCK RSMP.
4. SEE SHEET C00 FOR GENERAL NOTES.

Sheet List Table

SHEET NUMBER	SHEET TITLE	SHEET DESCRIPTION
01	CVR	COVER
02	PLAT	PLAT
03	PLAT	PLAT
04	SRV	SURVEY
05	SP	SITE PLAN
06	FPP	FIRE PROTECTION PLAN
07	EDA	EXISTING DRAINAGE AREA
08	DDA	DEVELOPED DRAINAGE AREA
09	C00	GENERAL NOTES
10	C10	EROSION AND SEDIMENTATION CONTROL PLAN
11	C11	DEMOLITION PLAN
12	C20	UTILITY PLAN & PROFILE
13	C21	PARTIAL OVERALL UTILITY PLAN
14	C30	DRAINAGE PLAN & PROFILE
15	C40	GRADING PLAN
16	C50	DIMENSION CONTROL PLAN
17	C60	PAVING AND STRIPING PLAN
18	C70	CONSTRUCTION & ESC DETAILS
19	C71	STORM DETAILS
20	C72	UTILITY DETAILS
21	C73	DUMPSTER DETAILS
22	LA0.00	LANDSCAPE NOTES AND SCHEDULES
23	LA1.01	LANDSCAPE PLAN
24	LA1.02	POND PLAN
25	LA5.01	LANDSCAPE DETAILS
26	E1	PHOTOMETRIC PLAN

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN ACCEPTING THESE PLANS, THE CITY OF ROUND ROCK MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

STATE OF TEXAS ★
COUNTY OF WILLIAMSON ★

I, TERRY R. HAGOOD, DO HEREBY CERTIFY THAT THE PUBLIC WORKS AND DRAINAGE IMPROVEMENTS DESCRIBED HEREIN HAVE BEEN DESIGNED IN COMPLIANCE WITH THE SUBDIVISION AND BUILDING REGULATION ORDINANCES AND STORM WATER DRAINAGE POLICY ADOPTED BY THE CITY OF ROUND ROCK, TEXAS.

STATE OF TEXAS · TERRY R. HAGOOD · 52950 · REGISTERED · PROFESSIONAL ENGINEER

06/12/2024

ACCEPTED FOR CONSTRUCTION BY:

Planning and Development Services — Date
City of Round Rock, Texas

SITE PLAN PERMIT NO.	SDP23-00040
RECORDED FINAL PLAT DOC. NO.	PENDING
TCEQ WPAP APPROVAL CASE #	9/8/2023 11003578
TCEQ SCS APPROVAL CASE #	8/11/2023 11003579

IMPERVIOUS COVER	EXISTING	NEW
PUBLIC SIDEWALK, STREET, CURB AND GUTTER	2,417 SF	1,737 SF
BUILDING GROSS FLOOR AREA, BUILDING HEIGHT = 24' - 28'	2739 SF	7,906 SF
PARKING, PRIVATE SIDEWALK	19,901 SF	16,360.2 SF
TOTAL	22,318 SF	26,003.2 SF
TOTAL AREA OF DISTURBANCE (LOC)	0 SF	51,220 SF
BUILDING OCCUPANCY TYPE	B	
TYPE OF CONSTRUCTION	V	

OWNER
YMCA OF CENTRAL TEXAS
1812 N. MAYS STREET
ROUND ROCK, TEXAS 78664
RICH CARLTON
(512)-246-YMCA

ARCHITECT
SCHAEFER ARCHITECTURE
257 N BROADWAY
WICHITA, KANSAS 67202
MATT HAMM, AIA, NCARB
(316)-684-0171

SURVEYOR
JPH LAND SURVEYING INC.
1516 E. PALM VALLEY BLVD., SUITE A4
ROUND ROCK, TEXAS 78664
CHRIS HENDERSON, RPLS
(512)-686-1474

ENGINEER
HAGOOD ENGINEERING ASSOCIATES, INC.
900 E. MAIN STREET
ROUND ROCK, TEXAS 78664
TERRY R. HAGOOD, P.E.
(512)-244-1546

LANDSCAPE ARCHITECT
STUDIO 16:19, LLC
305 W LIBERTY, SUITE 100
ROUND ROCK, TEXAS 78664
JONATHAN WAGNER, RLA, LI, ASLA
(512)-534-8680

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

REVISIONS

NO.	DATE	DESCRIPTION	APPROVED BY
1			
2			
3			
4			
5			

900 E. Main Street
Round Rock, TX 78664
Phone (512) 244-1546
Fax (512) 244-1010
www.hea.eng.pro
TBPE Registration No. F-12709

JOB NO:	22-036
DRAWN BY:	WSH
CHECKED BY:	TRH
P.I.C.:	TRH
FILE NO:	22-036 CVR
DATE:	06/12/2024
SHEET:	01 OF 26

Z:\HEA\HEA Projects\Projects 22.0001\22-036 YMCA - Mains Property\CAD Files\Civil\22-036 CVR.dwg, 6/12/2024 4:05:43 PM, wilsam

Field: AC 2022/12/12 CTX6128
Drafter: RDG 2023/01/02
Revision:
Revision:

PLAT NOTES:

1. No portion of this tract is encroached by any special flood hazard areas inundated by the 1% annual chance flood as identified by the U.S. federal emergency management agency boundary map (Flood Insurance Rate Map) community panel number 48491C0489F & 48491C0493F, effective date December 20, 2019, for Williamson County, Texas.
2. No portion of this tract is encroached by the ultimate 1% annual chance floodplain.
3. Building setbacks shall be in accordance with Part III, Zoning and Development Code, Chapter 2, Zoning Districts and Use Regulations, City of Round Rock, Texas, 2018, as amended.
4. No obstructions, including but not limited to fencing or storage, shall be permitted in any drainage easements shown hereon.
5. A ten-foot (10') PUE and sidewalk easement abutting and along the street side property line is hereby dedicated for all street side property lots shown hereon.
6. A fifteen-foot (15') PUE and a ten-foot (10') sidewalk easement abutting and along the street side property line is hereby dedicated for all lots abutting IH35.
7. This subdivision is subject to easements and restrictions dedicated by former plats recorded in Cabinet L, Slide 5, P.R.W.C.T. and under Instrument Number 2007079067, O.P.R.W.C.T.
8. Sidewalks shall be constructed in accordance with Part III, Zoning and Development Code, Section 6-26, City of Round Rock, Texas, 2018, as amended.
9. A portion of a 15' Public Utility Easement recorded in Vol. 803, Pg. 178, D.R.W.C.T. has been vacated by Instrument No. 2020159139, O.P.R.W.C.T.
10. A 26' Ingress/Easement dedicated under Instrument No. 2007079067, O.P.R.W.C.T. is hereby vacated.

LEGEND OF EASEMENT HATCH PATTERNS

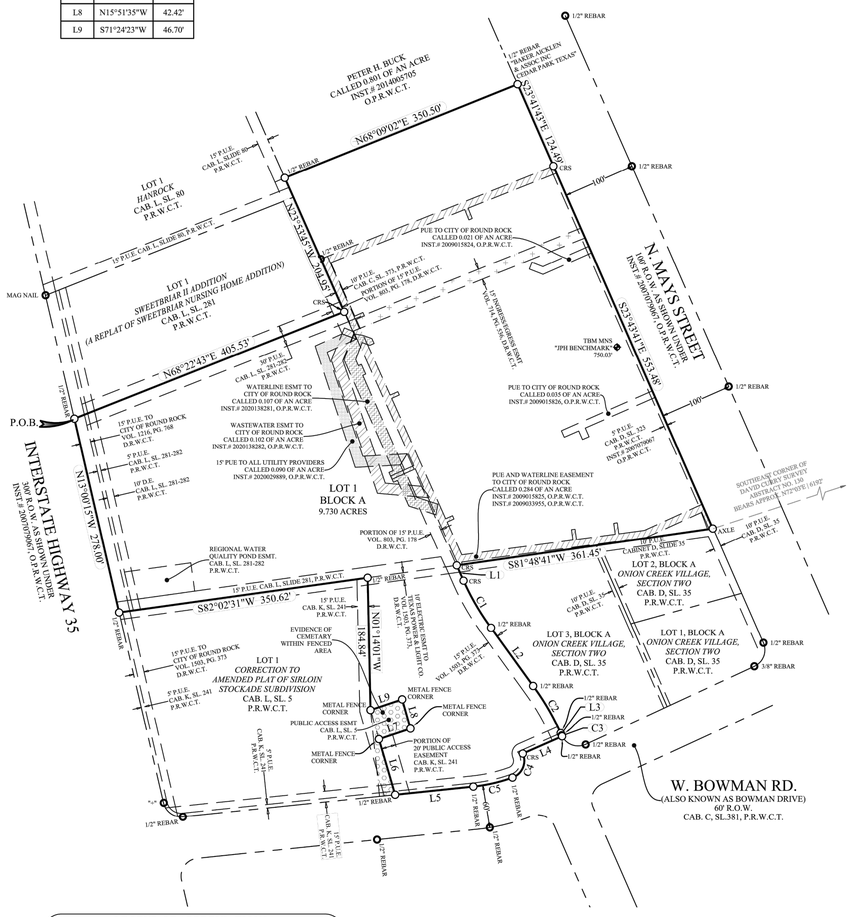
- PUBLIC UTILITY & WATERLINE EASEMENT TO CITY OF ROUND ROCK CALLED 0.284 OF AN ACRE INST.# 2009015825, O.P.R.W.C.T. INST.# 2009033955, O.P.R.W.C.T.
- 15' PUBLIC UTILITY EASEMENT CALLED 0.090 OF AN ACRE INST.# 2020029889, O.P.R.W.C.T.
- WASTEWATER EASEMENT TO CITY OF ROUND ROCK CALLED 0.102 OF AN ACRE INST.# 2020138282, O.P.R.W.C.T.
- WATERLINE EASEMENT CALLED 0.107 OF AN ACRE INST.# 2020138281, O.P.R.W.C.T.
- 15' INGRESS/EGRESS EASEMENT VOL. 714, PG. 536, D.R.W.C.T.
- PUBLIC ACCESS EASEMENT CAB. K, SL. 241, P.R.W.C.T.

Line Data Table		
Line #	Bearing	Distance
L1	S23°51'14"E	23.46'
L2	S35°54'29"E	100.27'
L3	S25°02'27"E	3.43'
L4	S66°14'46"W	60.00'
L5	S84°03'06"W	109.83'
L6	N16°13'14"W	81.02'
L7	N71°30'24"E	46.46'
L8	N15°51'35"W	42.42'
L9	S71°24'23"W	46.70'

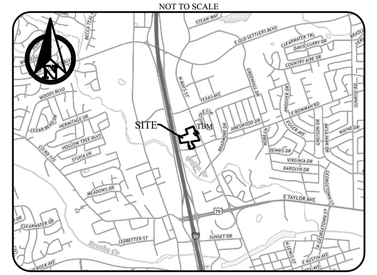
Curve Data Table					
Curve #	Arc	Radius	Delta	Chord Bearing	Chord
C1	76.48'	349.53'	012°32'14"	S30°13'51"E	76.33'
C2	76.38'	346.89'	012°36'59"	S30°20'37"E	76.23'
C3	1.52'	17.31'	005°01'42"	S19°09'25"E	1.52'
C4	40.93'	25.00'	093°48'23"	S23°13'11"W	36.51'
C5	56.29'	230.00'	014°01'21"	S77°02'24"W	56.15'

SURVEYOR'S NOTES:

1. Instrument No. 2020159126 appears to release a portion of a public utility easement recorded by Instrument No. 2009015825, as referenced on page 5 (of 6) of said Instrument No. 2020159126.
2. Instrument No. 2020159136 appears to release a portion of a public utility easement recorded by Vol. 803, Pg. 178, as shown on page 4 (of 5) of said Instrument No. 2020159136. Instrument No. 2020159136 shows this public utility easement as being dedicated by plat (Inst.# 2007079067), however, it appears to be recorded through Vol. 803, Pg. 178.



VICINITY MAP
NOT TO SCALE



REPLAT OF ROUND ROCK YMCA ADDITION

9.730 ACRES

BEING A REPLAT OF

LOT 1A & 2A, BLOCK A, YMCA OF GREATER WILLIAMSON COUNTY ROUND ROCK BRANCH: A FINAL PLAT OF 3.209 ACRES AND A REPLAT OF LOT 2 SWEETBRIAR II ADDITION AND CLEARWATER SUBDIVISION
INSTRUMENT NUMBER 2007079067, O.P.R.W.C.T.
AND
LOT 2, CORRECTION TO AMENDED PLAT OF SIRLOIN STOCKADE SUBDIVISION
CABINET L, SLIDE 5, P.R.W.C.T.
AND
YMCA OF GREATER WILLIAMSON COUNTY
INSTRUMENT NUMBER 2015046464, O.P.R.W.C.T.

ALL SITUATED IN THE
DAVID CURRY SURVEY, ABSTRACT NO. 130
CITY OF ROUND ROCK
WILLIAMSON COUNTY, TEXAS

NUMBER OF LOTS/BLOCKS: 1 Lots, 1 Block

LINEAR FEET OF NEW STREETS: None

ACREAGE BY LOT TYPE: Development: 9.730 acres

NUMBER OF LOTS BY TYPE: Development: 1 Lots

SUBMITTAL DATE: JANUARY 31, 2023

PLANNING & ZONING COMMISSION REVIEW DATE: MARCH 1, 2023

OWNERS:
YMCA of Greater Williamson County, Inc.
P.O. Box 819
Round Rock, Texas 78680

Young Mens Christian Association of Greater Williamson County
P.O. Box 819
Round Rock, Texas 78680

SURVEYOR:
JPH Land Surveying, Inc.
1516 E Palm Valley Blvd, Ste A4
Round Rock, Texas 78664
Phone: (512) 778-5688

ENGINEER:
Hagood Engineering Associates
900 E. Main Street
Round Rock, Texas 78664
(512) 244-1546

BENCHMARK:
The first site benchmark (TBM #1) is a mag nail with metal washer stamped "JPH BENCHMARK" set in a concrete curb in parking lot located on subject property, and located approximately 24 feet southwesterly from the west right-of-way line of N. Mays Street, and approximately 483 feet northwesterly from the north right-of-way line of W. Bowman Road. Benchmark Elevation = 750.03' (NAVD'88 - GEOID 18).
See vicinity map for general location.

JPH LaNd Surveying, Inc.

0 100' 200'
Scale: 1" = 100'

JPH Job/Drawing No. (see below)
2022.071.003 Chasco YMCA - 1826 N Mays, St., Round Rock, Wilco., TX-PLAT.dwg

1516 E. Palm Valley Blvd., Ste. A4, Round Rock, Texas 78664
Telephone (817) 431-4971 www.jphlandsurveying.com
TBPELS Firm #10019500
DFW | Central Texas | West Texas | Houston

LEGEND OF ABBREVIATIONS

US.SyFt.	United States Survey Feet
TxCS,'83,CZ	Texas Coordinate System of 1983, Central Zone
NAVD'88	North American Vertical Datum of 1988
P.R.W.C.T.	Plat Records of Williamson County, Texas
O.P.R.W.C.T.	Official Public Records of Williamson County, Texas
D.R.W.C.T.	Deed Records of Williamson County, Texas
VOL/PG/INST#	Volume/Page/Instrument Number
CAB./SL.	Cabinet/Slide
POB/POC	Point of Beginning/Point of Commencing
P.U.E.	Public Utility Easement
R.O.W.	Right-of-way
S.F.	Square Feet
B.L.	Building Setback
D.E.	Drainage Easement

MONUMENTS / DATUMS / BEARING BASIS
Monuments are found if not marked MNS or CRS.
CRS ○ 1/2" rebar stamped "JPH Land Surveying" set
MNS ○ Mag nail & washer stamped "JPH Land Surveying" set
TBM ◆ Site benchmark (see vicinity map for general location)
○ Vertex or common point (not a monument)
Coordinate values, if shown, are US.SyFt./TxCS,'83,CZ
Elevations, if shown, are NAVD'88, GEOID 18
Bearings are based on grid north (TxCS,'83,CZ)

LEGEND OF LINE WORK
- Subdivision Boundary
- Deed/adjoiner lines
- Easement lines
- Building Setback Lines

HEA PROJECT NO. 22-036
ISSUED DATE 06/12/2024
PLAT
PLAT
02
SDP23-00040

WHEREAS, YMCA of Greater Williamson County, Inc. is the owner of that certain tract situated in the David Curry Survey, Abstract No. 130 in Williamson County, Texas, being all of Lot 1A and 2A, Block A, *YMCA OF GREATER WILLIAMSON COUNTY ROUND ROCK BRANCH: A FINAL PLAT OF 3.209 ACRES AND A REPLAT OF LOT 2 SWEETBRIAR II ADDITION AND CLEARWATER SUBDIVISION*, an addition to the City of Round Rock, recorded under Instrument Number 2007079067, of the Official Public Records of Williamson County, Texas, and being all of that tract described as 1.001 acres in a Special Warranty Deed to YMCA of Greater Williamson County, a Texas nonprofit (hereinafter referred to as 1.001 acre YMCA tract), recorded under Instrument Number 2015046464, of said Official Public Records;

and WHEREAS, Young Mens Christian Association of Greater Williamson County, is the owner of that certain tract situated in the David Curry Survey, Abstract No. 130 in Williamson County, Texas, being all of Lot 2, *CORRECTION TO AMENDED PLAT OF SIRLOIN STOCKADE SUBDIVISION*, an addition to the City of Round Rock, recorded in Cabinet L, Slide 5, of the Plat Records of Williamson County, Texas the subject tract being more particularly described as follows:

BEGINNING at a 1/2 inch rebar found in the east right-of-way line of Interstate Highway 35 (a called 300' wide right-of-way as shown under Instrument Number 2070079067 of said Official Public Records), at the common west corner of said Lot 2A and Lot 1, *SWEETBRIAR II ADDITION (A REPLAT OF SWEETBRIAR NURSING HOME ADDITION),* an addition to the City of Round Rock, recorded in Cabinet L, Slide 281 of said Plat Records;

THENCE NORTH 04° 36' 29" EAST, with the south line of said Lot 1, *SWEETBRIAR II ADDITION (A REPLAT OF SWEETBRIAR NURSING HOME ADDITION)*, and in part with the north lines of said Lot 2A and said Lot 1A, a distance of 405.53 feet to a 1/2 inch capped rebar stamped "JPH Land Surveying" set;

THENCE NORTH 23° 53' 45" WEST, a distance of 204.95 feet to a 1/2 inch rebar found in the east line of Lot 1, *HANROCK,* an addition to the City of Round Rock, recorded in Cabinet L, Slide 80 of said Plat Records, at the common west corner of said 1.001 acre YMCA tract and the tract described as 0.801 of an acre in a Special Warranty Deed to Peter H. Buck (hereinafter referred to as Peter Buck tract), recorded under Instrument Number 2014005705 of said Official Public Records;

THENCE NORTH 68° 09' 02" EAST, with the common line of said 1.001 YMCA tract and said Peter Buck tract, a distance of 350.50 feet to a 1/2" capped rebar stamped "BAKER AICKLEN & ASSOC. INC CEDAR PARK TEXAS" found in the west line of N. Mays Street (a called 100' wide right-of-way as shown under Instrument Number 2007079067 of said Official Public Records), at the common east corner of said 1.001 YMCA tract and said Peter Buck tract;

THENCE SOUTH 23° 41' 43" EAST, with the common line of said 1.001 YMCA tract and said N. Mays Street, a distance of 124.49 feet to a 1/2 inch capped rebar stamped "JPH Land Surveying" set at the common east corner of said Lot 1A and said 1.001 YMCA tract;

THENCE SOUTH 23° 43' 41" EAST, with the common line of said Lot 1A and said N. Mays Street, a distance of 553.48 feet to an axle found at the common east corner of said Lot 1A and Lot 2, Block A, *ONION CREEK VILLAGE, SECTION TWO,* an addition to the City of Round Rock recorded in Cabinet D, Slide 35 of said Plat Records;

THENCE SOUTH 81° 48' 41" WEST, with the south line of said Lot 1A, a distance of 361.54 feet to a 1/2 inch capped rebar stamped "JPH Land Surveying" set at the common north corner of Lot 2, *CORRECTION TO AMENDED PLAT OF SIRLOIN STOCKADE SUBDIVISION* and Lot 3, Block A of said *ONION CREEK VILLAGE, SECTION TWO*;

THENCE with the common line of said Lot 2, *CORRECTION TO AMENDED PLAT OF SIRLOIN STOCKADE SUBDIVISION* and said Lot 3, Block A, *ONION CREEK VILLAGE, SECTION TWO*, the following calls:

1. SOUTH 23° 51' 14" EAST, a distance of 23.46 feet to a 1/2 inch capped rebar stamped "JPH Land Surveying" set at the beginning of a curve to the left (concave northeast), having a radius of 349.53 feet and a chord which bears SOUTH 30° 13' 51" EAST, a distance of 76.33 feet;
2. Along said curve to the left, an arc length of 76.48 feet to a 1/2 inch rebar found;
3. SOUTH 35° 54' 29" EAST, a distance of 100.27 feet to a 1/2 inch rebar found at the beginning of a curve to the right (concave southwest), having a radius of 346.89 feet and a chord which bears SOUTH 30° 20' 37" EAST, a distance of 76.23 feet;
4. Along said curve to the right, an arc length of 76.38 feet to a 1/2 inch rebar found;
5. SOUTH 25° 02' 27" EAST, a distance of 3.43 feet to a 1/2 inch rebar found at the beginning of a curve to the right (concave southwest), having a radius of 17.31 feet and a chord which bears SOUTH 19° 09' 25" EAST, a distance of 1.52 feet;

THENCE Along said curve to the right, an arc length of 1.52 feet to a 1/2 inch rebar found in the north right-of-way line of Bowman Drive (a 60' wide right-of-way as shown in Cabinet L, Slide 5, of said Plat Records);

THENCE with the common line of said Lot 2, *CORRECTION TO AMENDED PLAT OF SIRLOIN STOCKADE SUBDIVISION* and said Bowman Drive, the following calls:

1. SOUTH 66° 14' 46" WEST, a distance of 60.00 feet to a 1/2 inch capped rebar stamped "JPH Land Surveying" set at the beginning of a curve to the right (concave northwest), having a radius of 25.00 feet and a chord which bears SOUTH 23° 13' 11" WEST, a distance of 36.51 feet;
2. Along said curve to the right, an arc length of 40.93 feet to a 1/2 inch rebar found at the beginning of a curve to the right (concave northwest), having a radius of 230.00 feet and a chord which bears SOUTH 77° 02' 24" WEST, a distance of 56.15 feet;
3. Along said curve to the right, an arc length of 56.29 feet to a 1/2 inch rebar found;
4. SOUTH 84° 03' 06" WEST, a distance of 109.83 feet to a 1/2 inch rebar found at the common south corner of said Lot 2, *CORRECTION TO AMENDED PLAT OF SIRLOIN STOCKADE SUBDIVISION* and Lot 1 of said *CORRECTION TO AMENDED PLAT OF SIRLOIN STOCKADE SUBDIVISION*;

THENCE with the common line of said Lot 1 and said Lot 2 of *CORRECTION TO AMENDED PLAT OF SIRLOIN STOCKADE SUBDIVISION*, the following bearings and distances:

1. NORTH 16° 13' 14" WEST, a distance of 81.02 feet to a metal fence corner found;
2. NORTH 71° 30' 24" EAST, a distance of 46.46 feet to a metal fence corner found;
3. NORTH 15° 51' 35" WEST, a distance of 42.42 feet to a metal fence corner found;
4. SOUTH 71° 24' 23" WEST, a distance of 46.70 feet to a 1/2 inch rebar found in the south line of said Lot 1A at the common north corner of said Lot 1 and said Lot 2 of *CORRECTION TO AMENDED PLAT OF SIRLOIN STOCKADE SUBDIVISION*;

THENCE SOUTH 82° 02' 31" WEST, with the common line of said Lot 1A and said Lot 1, *CORRECTION TO AMENDED PLAT OF SIRLOIN STOCKADE SUBDIVISION*, a distance of 350.62 feet to a 1/2 inch rebar found in the east right-of-way line of said Interstate Highway 35 at the common west corner of said Lot 1A and said Lot 1, *CORRECTION TO AMENDED PLAT OF SIRLOIN STOCKADE SUBDIVISION*;

THENCE NORTH 13° 00' 15" WEST, along the east right-of-way line of said Interstate Highway 35, in part with the west lines of said Lot 1A and said Lot 2A, a distance of 278.00 feet returning to the Point of Beginning and enclosing 9.730 acres (±423,850 square feet).

STATE OF TEXAS §
§ **KNOW ALL MEN BY THESE PRESENTS**
COUNTY OF WILLIAMSON §

That I, Chris Henderson, do hereby certify that I prepared this plat from an actual and accurate on-the-ground survey of the land and that the corner monuments shown thereon were properly placed under my personal supervision, in accordance with Chapter 4 – Subdivision Design and Construction, Part III – Zoning and Development Code, Code of Ordinances, City of Round Rock, 2018 Edition as amended.

PRELIMINARY: THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT.

~RELEASED FOR REVIEW TO ON FEBRUARY 15, 2023.

_____
Chris Henderson
Registered Professional Land Surveyor
No. 6831 State of Texas
Date:_____

JPH LaNd Surveying, Inc.

JPH Job/Drawing No. (see below)
2022.071.003 Chasco YMCA - 1826 N Mays, St., Round Rock, Wilco., TX-PLAT.dwg

1516 E. Palm Valley Blvd., Ste. A4, Round Rock, Texas 78664
Telephone (817) 431-4971 www.jphlandsurveying.com
TBPELS Firm #10019500
DFW | Central Texas | West Texas | Houston

STATE OF TEXAS §
§ **KNOW ALL MEN BY THESE PRESENTS**
COUNTY OF WILLIAMSON §

That YMCA of Greater Williamson County, Inc., as the owner of a portion of that certain 9.730 acre tract of land recorded under Instrument Number 2003071604 and 2015046464, of the Official Records of Williamson County, Texas do hereby dedicate to the public forever use of the streets, alleys, easements and all other lands intended for public dedication as shown hereon to be known as *ROUND ROCK YMCA ADDITION*.

YMCA of Greater Williamson County, Inc.

By: _____
Jeff Andersen

Title: President/CEO

STATE OF TEXAS §
§ **KNOW ALL MEN BY THESE PRESENTS**
COUNTY OF WILLIAMSON §

This instrument was acknowledged before me on the _____day of _____, 20____, by, _____.

_____, _____
(Notary Public's signature) Print Name
Notary Public in and for the State of Texas

My Commission expires on:_____

STATE OF TEXAS §
§ **KNOW ALL MEN BY THESE PRESENTS**
COUNTY OF WILLIAMSON §

That Young Mens Christian Association of Greater Williamson County, as the owner of a portion of that certain 9.730 acre tract of land recorded under Instrument Number 2019067744, of the Official Records of Williamson County, Texas do hereby dedicate to the public forever use of the streets, alleys, easements and all other lands intended for public dedication as shown hereon to be known as *ROUND ROCK YMCA ADDITION*.

Young Mens Christian Association of Greater Williamson County

By: _____
Jeff Andersen

Title: President/CEO

STATE OF TEXAS §
§ **KNOW ALL MEN BY THESE PRESENTS**
COUNTY OF WILLIAMSON §

This instrument was acknowledged before me on the _____day of _____, 20____, by, _____.

_____, _____
(Notary Public's signature) Print Name
Notary Public in and for the State of Texas

My Commission expires on:_____

STATE OF TEXAS §
§ **KNOW ALL MEN BY THESE PRESENTS**
COUNTY OF WILLIAMSON §

That JP Morgan Chase Bank, N.A., the Lien Holder of that certain 4.092 acre tract of land recorded Volume 2115, Page 130, of the Deed Records of Williamson County, Texas, Lots 1A and 2A, Block "A", recorded in Cabinet DD, Slide 323-324, Plat Records of Williamson County, Texas, Save and Except the aforementioned 4.092 acre tract do hereby consent to the subdivision of that certain 9.730 acre tract of land situated in the City of Round Rock, Williamson County, Texas, and do further hereby join, approve, and consent to the dedication to the public forever use of the streets, alleys, easements and all other lands intended for public dedication as shown hereon.

JP Morgan Chase Bank, N.A.

By:
_____, its _____

TSTATE OF TEXAS §
§ **KNOW ALL MEN BY THESE PRESENTS**
COUNTY OF WILLIAMSON §

This instrument was acknowledged before me on the _____day of _____, 20____, by, _____.

_____, _____
(Notary Public's signature) Print Name
Notary Public in and for the State of Texas

My Commission expires on:_____

STATE OF TEXAS §
§ KNOW ALL MEN BY THESE PRESENTS:
COUNTY OF WILLIAMSON §

I, Terry R. Hagood, Registered Professional Engineer in the State of Texas, do hereby certify that the information contained on this plat complies with Chapter 4 – Subdivision Design and Construction, Part III – Zoning and Development Code, Code of Ordinances, City of Round Rock, 2018 Edition as amended, and the Design and Construction Standards adopted by the City of Round Rock, Texas.

_____
Terry Hagood
Licensed Professional Engineer No. 52960
State of Texas
Date:_____

PLANNING & ZONING COMMISSION APPROVAL:

Approved this _____ day of _____, 2023, by the Planning and Zoning Commission of the City of Round Rock, Texas, and authorized to be filed for record by the County Clerk of Williamson County, Texas.

The property covered by this Plat is within the City limits of the City of Round Rock.

_____
Rob Wendt, Chairman
City of Round Rock Planning and Zoning Commission

STATE OF TEXAS §
§ KNOW ALL MEN BY THESE PRESENTS:
COUNTY OF WILLIAMSON §

I, Nancy E. Rister, Clerk of the County Court of said County, do hereby certify that the foregoing instrument in writing, with its certificate of authentication was filed for record in my office on the ____ day of _____, 20__, A.D., at ___ o'clock, __.M., and duly recorded this the ___ day of _____, 20__, A.D., at ___ o'clock, __.M., in the Official Public Records of said County in Document No. _____.

TO CERTIFY WHICH, WITNESS my hand and seal at the County Court of said County, at my office in Georgetown, Texas, the date last shown above written.

_____
Nancy Rister, Clerk County Court of Williamson County, Texas

By: _____, Deputy

HEA PROJECT NO. 22-036
ISSUED DATE 06/12/2024
PLAT

PLAT

03

SDP23-00040

Field: AC 2022/12/12 CTX6128
Drafter: RDG 2022/12/13
Revision:
Revision:

CLICK FOR PICS

DOCS

LEGEND OF SYMBOLS

- A air conditioner
- borehole
- CATV cable tv
- EM electric meter
- fence or handrail
- FDC fire dept. connection
- FH fire hydrant
- fire lane
- guard rail
- G grease trap
- GP bollard
- GI grate inlet
- GM gas meter
- GAS gas line
- GUY utility pole anchor
- IV irrigation valve
- landscape or tree line
- LEB landscape electric box
- LSL landscape light
- LP light pole
- MB mailbox
- MW monitoring well
- OU overhead utility lines
- PE pool equipment
- road sign
- RD roof drain
- silt fence
- • 356.7' spot elevation
- SSMH sanitary sewer manhole
- S sanitary sewer pipe
- SDMH storm water manhole
- ST storm water pipe
- TMH telephone manhole
- TFL tank fill lid
- TR telephone riser
- traffic signal pole
- UMH unknown manhole
- CO utility clean out
- UC utility cabinet
- UV utility vault
- UP utility pole
- UP/UG utility pole with riser
- utility sign
- water shutoff
- WV water valve
- water manhole
- WM water meter
- well
- W water line
- one-foot contour lines
- tree trunk (with canopy) caliper inches at breast height
- ornamental tree
- (M) multiple trunks
- Google 360 Hyperlink

NOTE - Some items may not pertain to this survey. The identification is subject to interpretation, verification may be required.

UTILITY WARNING

Unless otherwise stated, the client or client's representative did not provide JPH with plans and/or reports, and JPH did not coordinate a private utility locate request. If these Table A items are listed in the certification, the client, being aware of the factors listed above, has agreed for these Table A item(s) to be addressed from a combination of online GIS maps, markings from locate request(s) to municipalities and 811 and observed evidence of utilities. The client is aware locate requests to 811 and the like, may be ignored or result in an incomplete response, in which case utilities may not have been marked, or not completely marked, at the time the fieldwork was performed. Therefore, utilities may exist which are not shown on this survey. Lacking excavation and/or a private utility locate request, the exact location of underground features cannot be accurately, completely, and reliably depicted.

FLOOD ZONE CLASSIFICATION

This property lies within ZONE(S) X (unshaded) of the Flood Insurance Rate Map for Williamson County, Texas and Incorporated Areas, map no. 48491C0489F & 48491C0493F, dated 2019/12/20, via scaled map location and graphic plotting and/or the National Flood Hazard Layer (NFHL) Web Map Service (WMS) at http://hazards.fema.gov.

MONUMENTS / DATUMS / BEARING BASIS

Monuments are found if not marked MNS or CRS.

CRS ○ 1/2" rebar stamped "JPH Land Surveying" set
MNS ○ Mag nail & washer stamped "JPH Land Surveying" set
TBM Site benchmark (see vicinity map for general location)
Coordinate values, if shown, are US.SyFt./TxCS,'83,CZ
Elevations, if shown, are NAVD'88 (Geoid 18)
Bearings are based on the TxCS,'83,CZ
Distances & areas shown are represented in surface values

LEGEND OF ABBREVIATIONS

US.SyFt.	United States Survey Feet
TxCS,'83,CZ	Texas Coordinate System of 1983, Central Zone
NAVD'88	North American Vertical Datum of 1988
P.R.W.C.T.	Plat Records of Williamson County, Texas
O.P.R.W.C.T.	Official Public Records of Williamson County, Texas
D.R.W.C.T.	Deed Records of Williamson County, Texas
VOL/PG/INST#	Volume/Page/Instrument Number
CAB./SL.	Cabinet/Slide
POB/POC	Point of Beginning/Point of Commencing
ESMT/BL	Easement/Building Line
PUE	Public Utility Easement
PVC/RCP	Polyvinyl Chloride Pipe/Reinforced Concrete Pipe

WATER & SEWER UTILITY MAP

CLICK HERE FOR MAP IN PDF FORMAT

NOT TO SCALE

NOTE REGARDING UTILITIES:

Utility locations are per observed evidence and sources listed below:
TEXAS811 - ticket number(s) 2282545216.
https://portal.texas811.org/#/ticket/2282545216
GIS MAPS - Provided by City of Round Rock interactive GIS map
https://maps.roundrocktexas.gov/cityview/

0 30' 60'
Scale: 1" = 30'

JPH Job/Drawing No. (see below)
2022.071.003 Chasco YMCA - 1826 N Mays, St., Round Rock, Wilco., TX.dwg

1516 E. Palm Valley Blvd., Ste. A4, Round Rock, Texas 78664
Telephone (817) 431-4971 www.jphlandsurveying.com
TBPELS Firm #10019500
DFW | Central Texas | West Texas | Houston

TEXAS811 MARKED UTILITY LEGEND

ELECTRIC
ELECTRICGAS-OIL-STEAM
COMMUNICATION-CATV
WATER
SEWER

SURVEYOR'S NOTES:

1. The first site benchmark (TBM #1) is a mag nail with metal washer stamped "JPH BENCHMARK" set in a concrete curb in parking lot located on subject property, and located approximately 24 feet southwesterly from the west right-of-way line of N. Mays Street, and approximately 483 feet northwesterly from the north right-of-way line of W. Bowman Road. Benchmark Elevation = 750.03' (NAVD'88). See vicinity map for general location.

   The second site benchmark (TBM #2) is a mag nail with metal washer stamped "JPH BENCHMARK" set in a concrete curb in parking lot located on subject property, and located approximately 359 feet southwesterly from the west right-of-way line of N. Mays Street, and approximately 400 feet northwesterly from the north right-of-way line of W. Bowman Road. Benchmark Elevation = 748.81' (NAVD'88). See vicinity map for general location.

2. The site surface is natural ground/dirt, unless noted otherwise.

3. This survey was performed without the benefit of a title commitment. Complete copies of the record description of the property, any record easements benefiting the property, the record easements or servitudes and covenants affecting the property ("Record Documents"), documents of record referred to in the Record Documents, and any other documents containing desired appropriate information affecting the property being surveyed and to which the survey shall make reference were not provided to this surveyor for notation on the survey. Therefore, easements, agreements, or other documents, either recorded, or unrecorded may exist that affect the subject property that are not shown on this survey.

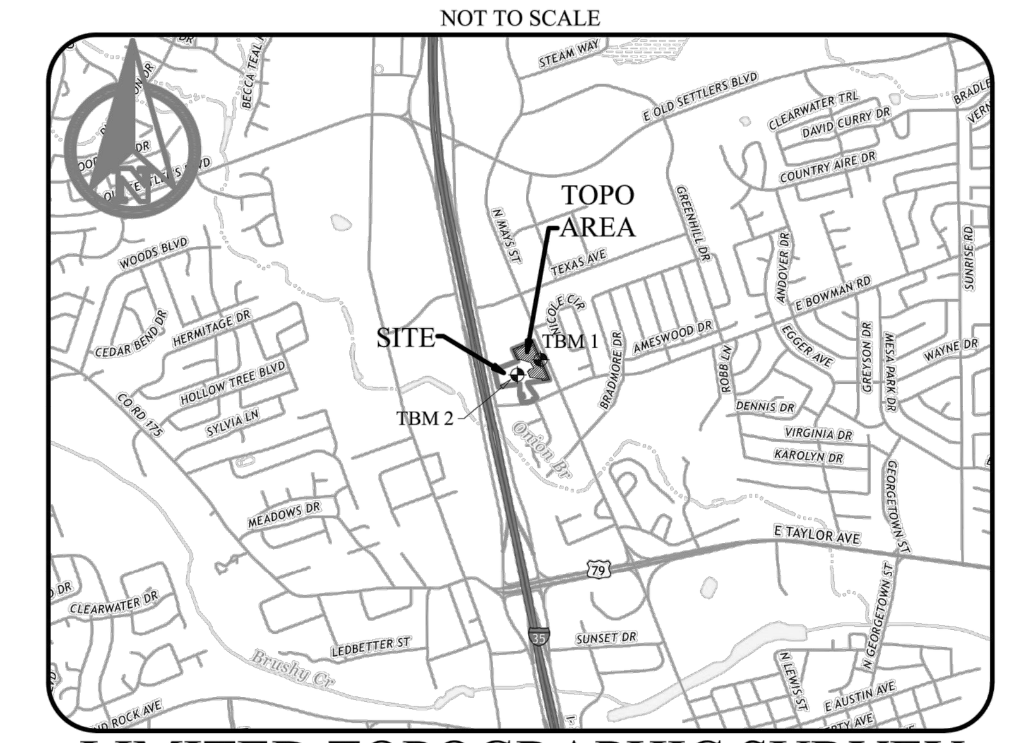
HEA PROJECT NO. 22-036
ISSUED DATE 06/12/2024
SURVEY
SRV
04
SDP23-00040

Chris Henderson
Registered Professional
Land Surveyor No. 6831
Chris@jphls.com
December 15, 2022

STATE OF TEXAS REGISTERED CHRIS HENDERSON 6831 PROFESSIONAL LAND SURVEYOR

VICINITY MAP

NOT TO SCALE



LIMITED TOPOGRAPHIC SURVEY

SITUATED IN A PORTION OF

LOT 1A, BLOCK A
YMCA OF GREATER WILLIAMSON COUNTY ROUND ROCK BRANCH: A FINAL PLAT OF 3.209 ACRES AND A REPLAT OF LOT 2 SWEETBRIAR II ADDITION AND CLEARWATER SUBDIVISION

INSTRUMENT NUMBER 2007079067, O.P.R.W.C.T.

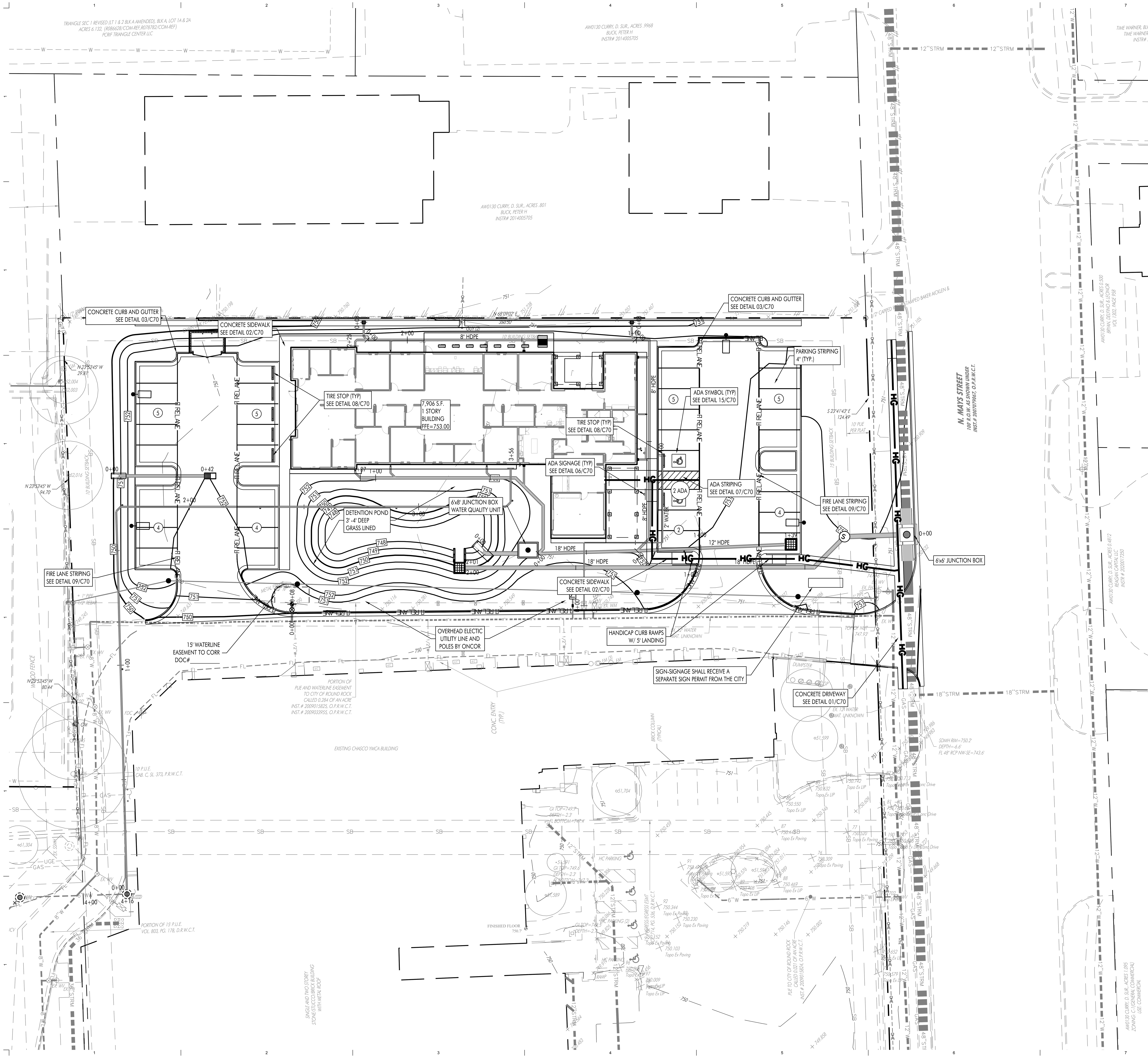
AND SITUATED IN

YMCA OF GREATER WILLIAMSON COUNTY

INSTRUMENT NUMBER 2015046464, O.P.R.W.C.T.

CITY OF ROUND ROCK
WILLIAMSON COUNTY, TEXAS

ADDRESS: 1812 N. MAYS STREET (PER APPRAISAL DISTRICT)



NOTES:

1. FIRELANE STRIPING TO BE 6" WIDE RED PAINT WITH "FIRE LANE-NO PARKING" IN 4" TALL WHITE LETTERS. WORDING MAY NOT BE SPACED MORE THAN 30 FEET APART. STRIPING TO BE PAINTED ON FACE OF CURB WHEN PRESENT AND PAINTED FLAT ON PARKING SURFACE WHEN IT IS NOT.
2. ALL DIMENSIONS ARE TO THE FACE OF CURB, OR CENTER OF STRIPING (WHERE APPLICABLE), UNLESS OTHERWISE NOTED.
3. ALL WEATHER ACCESS ROADS MADE OF (CONCRETE OR ASPHALT) SHALL BE IN PLACE BEFORE BRINGING COMBUSTIBLE MATERIALS ON THE JOBSITE. FIRE ACCESS ROAD MUST SUPPORT 80,000 lbs. SITE HYDRANTS SHALL ALSO BE IN-SERVICE.
4. THE GRADE THROUGH THE FIRE LANE ACCESS SHALL NOT BE GREATER THAN > 7% PERCENT, AND THE GRADE BREAKS NOT GREATER > 3% PERCENT. 2015 IFC INTERNATIONAL FIRE CODE SEC 503.2.7 & 503.2.8 DETERMINED BY THE FIRE CODE OFFICIAL OR AHJ.
5. TURNING RADII SHALL BE A MINIMUM OF 25' FEET INSIDE & 50' FEET OUTSIDE. 2015 IFC INTERNATIONAL FIRE CODE SEC 503.2.4 AND APPENDIX D SEC 103.3 DETERMINED BY THE FIRE CODE OFFICIAL OR AHJ.

PROJECT PARAMETERS	
BUILDING OCCUPANCY TYPE:	BUSINESS B
TYPE OF CONSTRUCTION:	TYPE VB
HEIGHT:	20'-0"
FRAME:	WOOD

PROPOSED USAGE	OFFICE
ZONING	C-2

PARKING REQUIREMENT TABLE		BUILDING SF
OFFICE	1:250	7906

PARKING COUNT TABLE	EXISTING	REMOVED	PROPOSED	TOTAL	REQUIRED
TOTAL # OF PARKING SPACES:	0	0	36	36	33
# OF STANDARD PARKING SPACES:	0	0	34	34	32
# OF ADA PARKING SPACES:	0	0	2	2	1

AREA CALCULATIONS		
EXISTING BUILDING AREA	0 SF	
NEW BUILDING FOOTPRINT AREA	7,906 SF	
LOT ACREAGE	423,839 SF	9.730 Ac.

NOTES:
1. THIS PROJECT IS CURRENTLY UNPLATTED. A SUBDIVISION PLAT APPLICATION AND PLAT HAS BEEN APPROVED AND PENDING RECORDATION. (FP 2301-003)
2. THIS PROJECT IS IN THE TCEQ EDWARDS AQUIFER RECHARGE ZONE. A WATER POLLUTION ABATEMENT PLAN HAS BEEN SUBMITTED TO TCEQ.
3. A TCEQ SEWAGE COLLECTION SYSTEM APPLICATION IS BEING SUBMITTED TO TCEQ PENDING RECEIPT OF TESTING REPORT FOR DOWNSTREAM WASTEWATER INFRASTRUCTURE ON THE LOT.
4. THIS PROJECT IS PROVIDING ONSITE DETENTION.
5. TOTAL AREA TO BE LANDSCAPED INCLUDING PARKING ISLANDS = 22,875 S.F.

SCALE: 1"=20'

LEGEND

- IRON ROD FOUND/SET
- CONCRETE MONUMENT FOUND/SET
- NAIL FOUND/SET
- PIPE FOUND
- STORMWATER MANHOLE (TO SCALE)
- JUNCTION BOX (TO SCALE)
- GRATE INLET (TO SCALE)
- WASTEWATER MANHOLE (TO SCALE)
- WASTEWATER CLEANOUT
- GAS TEST STATION
- GAS METER
- ELECTRIC METER
- LIGHT POLE
- SIGNAL LIGHT POLE
- UTILITY POLE
- TELEPHONE MANHOLE
- FIRE HYDRANT
- GATE VALVE
- IRRIGATION CONTROL VALVE
- WATER METER
- EXISTING CONTOURS
- PROPOSED CONTOUR
- PROPOSED CURB AND GUTTER
- PROPOSED ASPHALT
- PROPOSED X" DIA. GAS LINE
- PROPOSED X" DIA. STORM SEWER LINE
- PROPOSED X" DIA. WASTEWATER LINE
- PROPOSED X" DIA. WATER LINE
- EXISTING CHAIN LINK FENCE
- EXISTING WIRE FENCE
- EXISTING WOOD FENCE
- SETBACK LINE
- EASEMENT LINE
- EXISTING ASPHALT
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING OVERHEAD TELEPHONE LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING WATER LINE (SIZE VARIES)
- EXISTING WASTEWATER LINE (SIZE VARIES)
- EXISTING FORCE MAIN (SIZE VARIES)
- EXISTING FIBER OPTIC LINE
- EXISTING GAS LINE (SIZE VARIES)
- BENCHMARK LOCATION
- EXISTING TREE TO REMAIN (SIZE VARIES)
- EXISTING TREE TO BE REMOVED (SIZE VARIES)
- MONARCH/HERITAGE TREE (SIZE VARIES)
- PARKING COUNT
- PARCEL LINES
- HANDICAP ACCESS LINES
- CONCRETE PAVING
- ASPHALT PAVING
- CONCRETE SIDEWALK
- CONCRETE WASHOUT
- STABILIZED CONSTRUCTION ENTRANCE
- SILT FENCE
- ROCK BERM
- INLET PROTECTION
- TREE PROTECTION
- MULCH SOCK
- LIMITS OF CONSTRUCTION

HAGOOD ENGINEERING ASSOCIATES
900 E. Main Street
Round Rock, TX 78664
Phone (512) 244-1546
Fax (512) 244-1010
www.heaeng.com
TBPE Registration No. F-12709
JOB NO. 22-036 © 2024 HEA, Inc.
STATE OF TEXAS
TERRY R. HAGOOD
52960
REGISTERED PROFESSIONAL ENGINEER
52960

THIS DRAWING MAY NOT BE MODIFIED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ENGINEER, AND THEN ONLY IN ACCORDANCE WITH THE RULES OF THE TEXAS ENGINEERING PRACTICE ACT.

DATE SIGNED: 06/12/2024
ISSUED FOR: AGENCY REVIEW

schaefer. architecture
Schaefer Architecture
257 N. Broadway
Wichita, KS, 67202
316.684.0171

PROGRESS DRAWINGS NOT FOR CONSTRUCTION

DUDLEY WILLIAMS & ASSOCIATES, P.A.
STRUCTURAL ENGINEERS
MIDWEST ENGINEERING, INC.
MECHANICAL ENGINEERS
MIDWEST ENGINEERING, INC.
ELECTRICAL ENGINEERS

Owner
SITE DEVELOPMENT PLANS FOR YMCA - METRO OFFICES
1826 N. MAYS STREET
ROUND ROCK, TEXAS 78664

REVISIONS
1 04.24.2024 ADD #1

HEA PROJECT NO.

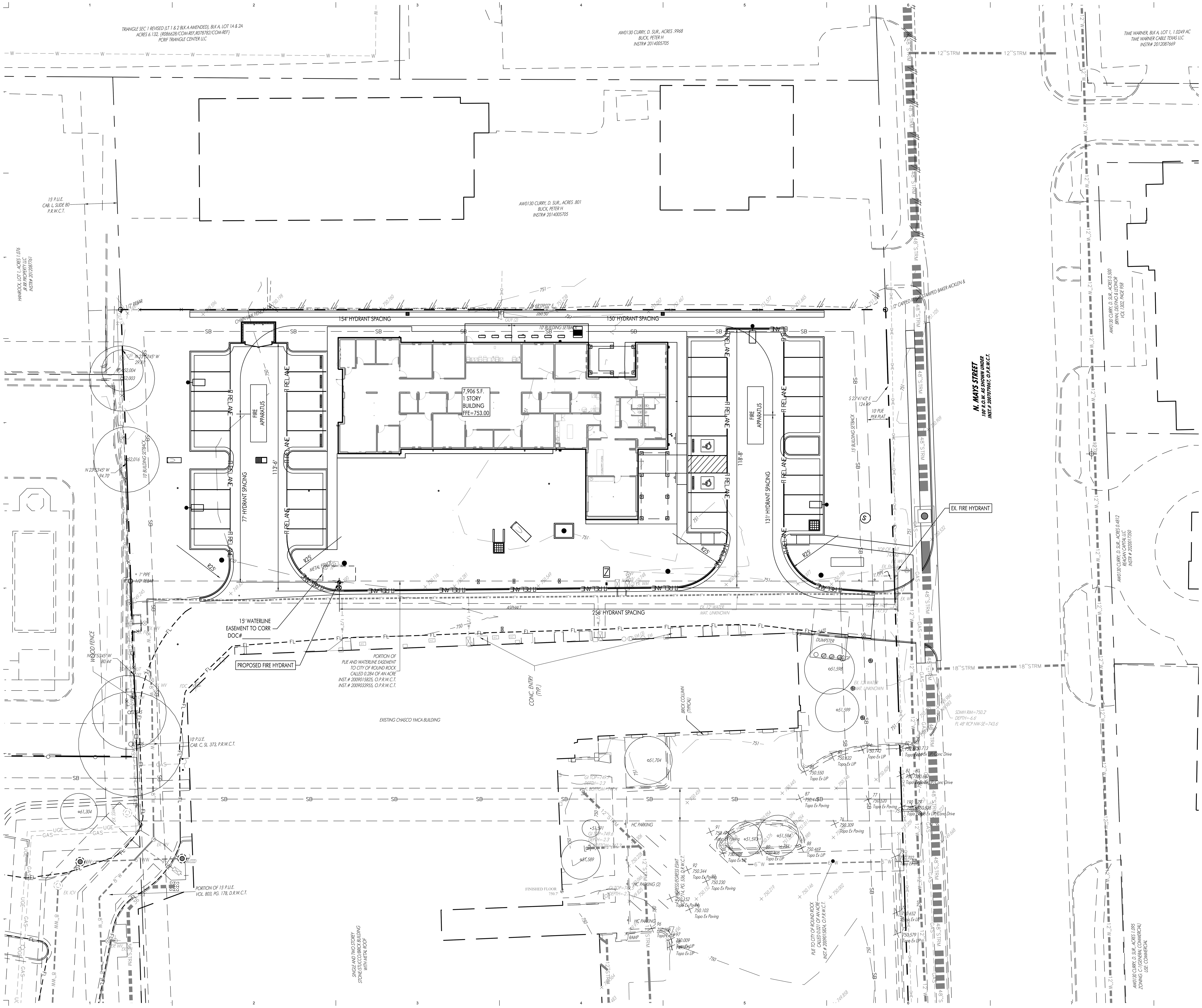
HEA PROJECT NO.22-036
ISSUED DATE: 06/12/2024

SITE PLAN

05

SP

SDP23-00040



PROGRESS DRAWINGS NOT FOR CONSTRUCTION

PROJECT PARAMETERS	
BUILDING OCCUPANCY TYPE:	BUSINESS B
TYPE OF CONSTRUCTION:	TYPE VB
HEIGHT:	20'-0"
FRAME:	WOOD

PROPOSED USAGE	OFFICE
ZONING	C-2

PARKING REQUIREMENT TABLE		BUILDING SF
OFFICE	1:250	7906

AREA CALCULATIONS		
EXISTING BUILDING AREA	0 SF	
NEW BUILDING FOOTPRINT AREA	7,906 SF	
LOT ACREAGE	423,839 SF	9.730 Ac.

NOTES:

1. FIRELANE STRIPING TO BE 6" WIDE RED PAINT WITH "FIRE LANE-NO PARKING" IN 4" TALL WHITE LETTERS. WORDING MAY NOT BE SPACED MORE THAN 30 FEET APART. STRIPING TO BE PAINTED ON FACE OF CURB WHEN PRESENT AND PAINTED FLAT ON PARKING SURFACE WHEN IT IS NOT.
2. ALL DIMENSIONS ARE TO THE FACE OF CURB, OR CENTER OF STRIPING (WHERE APPLICABLE), UNLESS OTHERWISE NOTED.
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4. THE GRADE THROUGH THE FIRE LANE ACCESS SHALL NOT BE GREATER THAN > 7% PERCENT, AND THE GRADE BREAKS NOT GREATER > 3% PERCENT. 2015 IFC INTERNATIONAL FIRE CODE SEC 503.2.7 & 503.2.8 DETERMINED BY THE FIRE CODE OFFICIAL OR AHJ.
5. TURNING RADII SHALL BE A MINIMUM OF 25' FEET INSIDE & 50' FEET OUTSIDE. 2015 IFC INTERNATIONAL FIRE CODE SEC 503.2.4 AND APPENDIX D SEC 103.3 DETERMINED BY THE FIRE CODE OFFICIAL OR AHJ.

schaefer. architecture

Schaefer Architecture
257 N. Broadway
Wichita, KS, 67202
316.684.0171

DUDLEY WILLIAMS & ASSOCIATES, P.A.
STRUCTURAL ENGINEERS

MIDWEST ENGINEERING, INC.
MECHANICAL ENGINEERS

MIDWEST ENGINEERING, INC.
ELECTRICAL ENGINEERS

Owner
SITE DEVELOPMENT PLANS FOR YMCA - METRO OFFICES
1826 N. MAYS STREET
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REVISIONS

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900 E. Main Street
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Phone (512) 244-1546
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www.heaeng.com
TBPE Registration No. F-12709

JOB NO. 22-036 © 2024 HEA, Inc.

STATE OF TEXAS
TERRY R. HAGOOD
52960
REGISTERED PROFESSIONAL ENGINEER

52960

THIS DRAWING MAY NOT BE MODIFIED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ENGINEER, AND THEN ONLY IN ACCORDANCE WITH THE RULES OF THE TEXAS ENGINEERING PRACTICE ACT.

DATE SIGNED: 06/12/2024
ISSUED FOR: AGENCY REVIEW

HEA PROJECT NO.

HEA PROJECT NO.22-036
ISSUED DATE: 06/12/2024

FIRE PROTECTION PLAN

06

FPP

SDP23-00040

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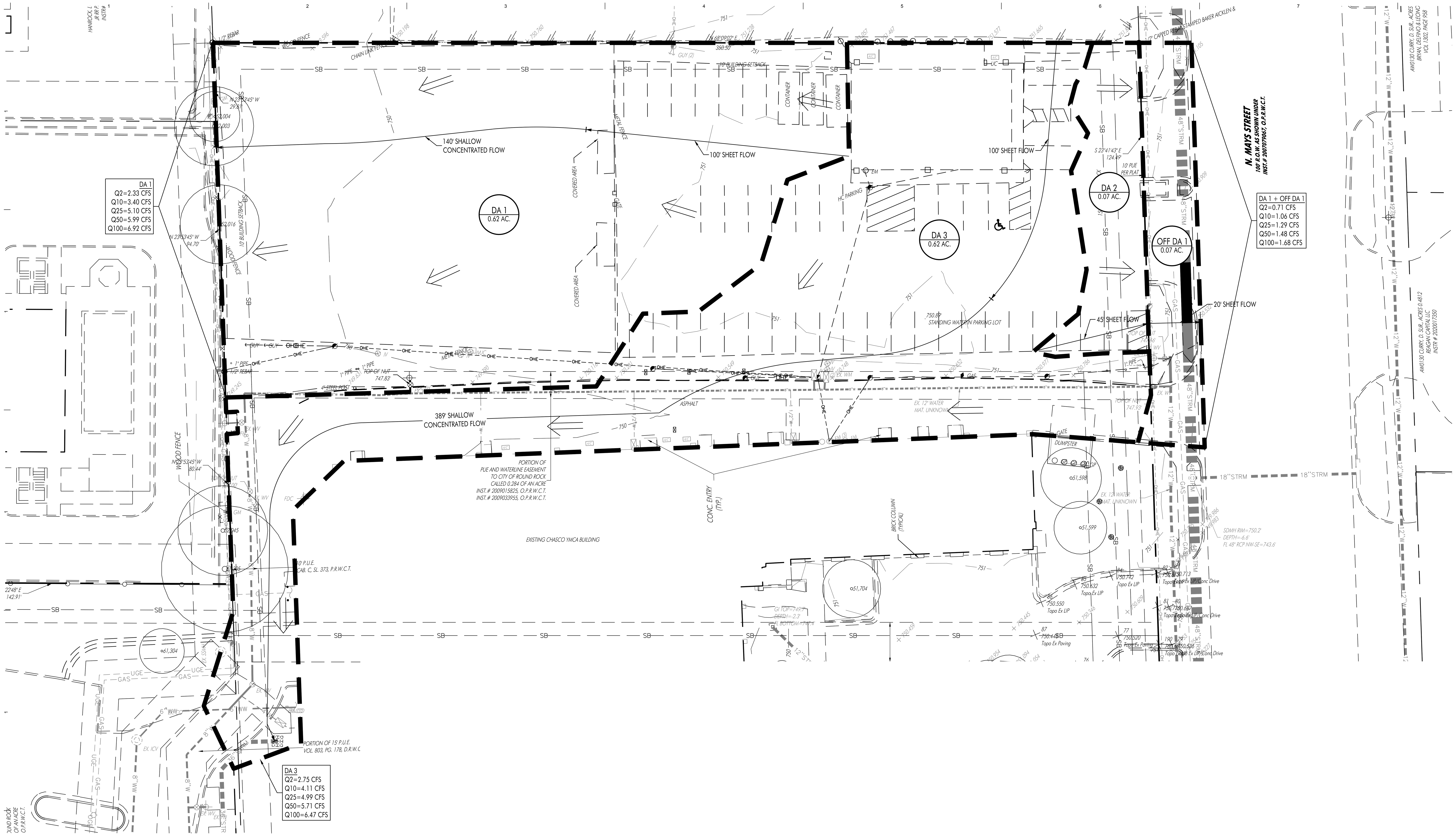

0 20 40
SCALE:1"=20'

LEGEND

- IRON ROD FOUND/SET
- CONCRETE MONUMENT FOUND/SET
- NAIL FOUND/SET
- PIPE FOUND
- STORMWATER MANHOLE (TO SCALE)
- JUNCTION BOX (TO SCALE)
- GRATE INLET (TO SCALE)
- WASTEWATER MANHOLE (TO SCALE)
- WASTEWATER CLEANOUT
- GAS TEST STATION
- GAS METER
- ELECTRIC METER
- LIGHT POLE
- SIGNAL LIGHT POLE
- UTILITY POLE
- TELEPHONE MANHOLE
- FIRE HYDRANT
- GATE VALVE
- IRRIGATION CONTROL VALVE
- WATER METER
- EXISTING CONTOURS
- PROPOSED CONTOUR
- PROPOSED CURB AND GUTTER
- PROPOSED ASPHALT
- PROPOSED X" DIA. GAS LINE
- PROPOSED X" DIA. STORM SEWER LINE
- PROPOSED X" DIA. WASTEWATER LINE
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- EXISTING WOOD FENCE
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- EXISTING FORCE MAIN (SIZE VARIES)
- EXISTING FIBER OPTIC LINE
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- BENCHMARK LOCATION
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- CONCRETE PAVING
- ASPHALT PAVING
- CONCRETE SIDEWALK
- CONCRETE WASHOUT
- STABILIZED CONSTRUCTION ENTRANCE
- SF — SILT FENCE
- RB — ROCK BERM
- IP — INLET PROTECTION
- TP — TREE PROTECTION
- MS — MULCH SOCK
- LOC — LIMITS OF CONSTRUCTION

ATLAS 14 HEC-HMS HYDROLOGIC ROUTING SUMMARY for DA 1

TR-55 SCS Lag Time (hours)										Flow Summary							
Segment #1		Segment #2		Segment #3		Segment #4		Segment #5		Area	Tc	Cn	Q2	Q10	Q25	Q50	Q100
Sheet Flow		Shallow Concent		Shallow Concent		Channelized		Channelized		acres	hours	-	cfs	cfs	cfs	cfs	cfs
Mannings "n"		Unpaved		Unpaved		Mannings "n"		Mannings "n"		0.62	0.083	80	2.33	3.97	5.1	5.99	6.92
Length (ft)		Length (ft)		Length (ft)		Length (ft)		Length (ft)		*Impervious Cvr =*		26.2%					
Slope (%)		Slope (%)		Slope (%)		Slope (%)		Slope (%)									
2-yr, 24 hr rainfall						Velocity (fps)		Velocity (fps)									
segment total	n/a	segment total	n/a	segment total	n/a	segment total	n/a	segment total	n/a								
USER DEFINED							*time of conc.(hrs)*		0.083	*SCS Lag Time (.6 x Tc)=*			0.0498	hours	3.0	minutes	

ATLAS 14 HEC-HMS HYDROLOGIC ROUTING SUMMARY for DA 2

TR-55 SCS Tc (hours)										Flow Summary							
Segment #1		Segment #2		Segment #3		Segment #4		Segment #5		Area	Tc	Cn	Q2	Q10	Q25	Q50	Q100
Sheet Flow		Shallow Concent		Shallow Concent		Channelized		Channelized		acres	hours	-	cfs	cfs	cfs	cfs	cfs
Mannings "n"		Unpaved		Unpaved		Mannings "n"		Mannings "n"		0.069	0.083	80	0.37	0.54	0.66	0.75	0.85
Length (ft)		Length (ft)		Length (ft)		Length (ft)		Length (ft)		*Impervious Cvr =*		94.7%					
Slope (%)		Slope (%)		Slope (%)		Slope (%)		Slope (%)									
2-yr, 24 hr rainfall						Velocity (fps)		Velocity (fps)									
segment total	n/a	segment total	n/a	segment total	n/a	segment total	n/a	segment total	n/a								
USER DEFINED							*time of conc.(hrs)*		0.083	*SCS Lag Time (.6 x Tc)=*			0.0498	hours	3.0	minutes	

ATLAS 14 HEC-HMS HYDROLOGIC ROUTING SUMMARY for DA 3

TR-55 SCS Lag Time (hours)										Flow Summary							
Segment #1		Segment #2		Segment #3		Segment #4		Segment #5		Area	Tc	Cn	Q2	Q10	Q25	Q50	Q100
Sheet Flow		Shallow Concent		Shallow Concent		Channelized		Channelized		acres	hours	-	cfs	cfs	cfs	cfs	cfs
Mannings "n"		Unpaved		Unpaved		Mannings "n"		Mannings "n"		0.617	0.083	80	2.757	4.11	4.99	5.71	6.47
Length (ft)		Length (ft)		Length (ft)		Length (ft)		Length (ft)		*Impervious Cvr =*		90.7%					
Slope (%)		Slope (%)		Slope (%)		Slope (%)		Slope (%)									
2-yr, 24 hr rainfall						Velocity (fps)		Velocity (fps)									
segment total	n/a	segment total	n/a	segment total	n/a	segment total	n/a	segment total	n/a								
USER DEFINED							*time of conc.(hrs)*		0.083	*SCS Lag Time (.6 x Tc)=*			0.0498	hours	3.0	minutes	

ATLAS 14 HEC-HMS HYDROLOGIC ROUTING SUMMARY for OFF DA 1

TR-55 SCS Lag Time (hours)										Flow Summary							
Segment #1		Segment #2		Segment #3		Segment #4		Segment #5		Area	Tc	Cn	Q2	Q10	Q25	Q50	Q100
Sheet Flow		Shallow Concent		Shallow Concent		Channelized		Channelized		acres	hours	-	cfs	cfs	cfs	cfs	cfs
Mannings "n"		Unpaved		Unpaved		Mannings "n"		Mannings "n"		0.07	0.083	80	0.34	0.52	0.52	0.733	0.831
Length (ft)		Length (ft)		Length (ft)		Length (ft)		Length (ft)		*Impervious Cvr =*		78.8%					
Slope (%)		Slope (%)		Slope (%)		Slope (%)		Slope (%)									
2-yr, 24 hr rainfall						Velocity (fps)		Velocity (fps)									
segment total	n/a	segment total	n/a	segment total	n/a	segment total	n/a	segment total	n/a								
USER DEFINED							*time of conc.(hrs)*		0.083	*SCS Lag Time (.6 x Tc)=*			0.0498	hours	3.0	minutes	

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Schaefer Architecture
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Wichita, KS, 67202
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STRUCTURAL ENGINEERS
MIDWEST ENGINEERING, INC.
MECHANICAL ENGINEERS
MIDWEST ENGINEERING, INC.
ELECTRICAL ENGINEERS

Owner
SITE DEVELOPMENT PLANS FOR YMCA - METRO OFFICES 1826 N. MAYS STREET ROUND ROCK, TEXAS 78664

REVISIONS

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STATE OF TEXAS
TERRY R. HAGOOD
52960
REGISTERED PROFESSIONAL ENGINEER

52960
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DATE SIGNED: 06/12/2024
ISSUED FOR: AGENCY REVIEW

HEA PROJECT NO.

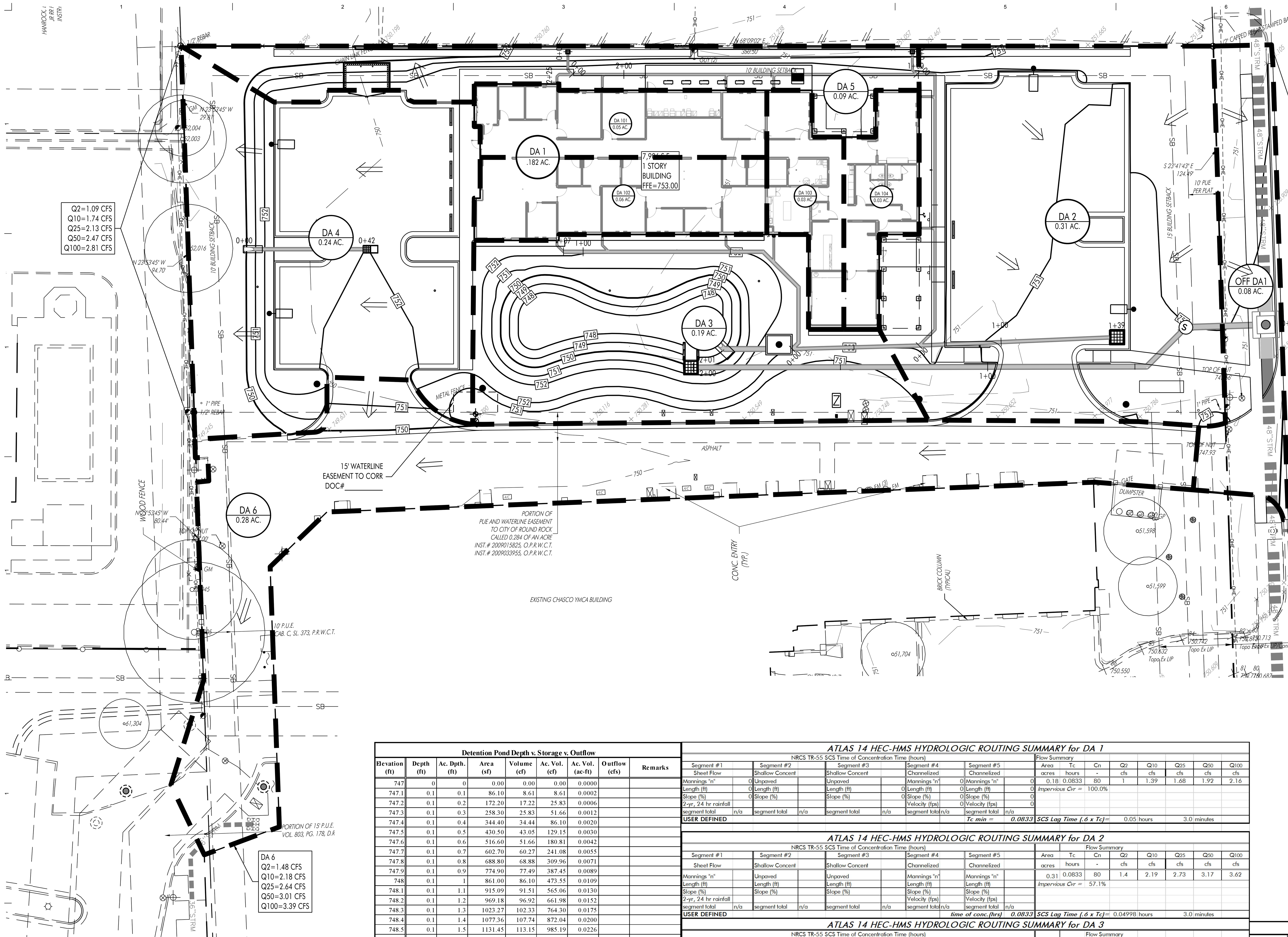
HEA PROJECT NO.22-036
ISSUED DATE: 06/12/2024

EXISTING DRAINAGE AREA

07

EDA

SDP23-00040



SCALE: 1"=20'

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- MS MULCH SOCK
- LOC LIMITS OF CONSTRUCTION

Detention Pond Depth v. Storage v. Outflow

Elevation (ft)	Depth (ft)	Ac. Dpth. (ft)	Area (sf)	Volume (cf)	Ac. Vol. (cf)	Ac. Vol. (ac-ft)	Outflow (cfs)	Remarks
747	0	0	0.00	0.00	0.00	0.0000		
747.1	0.1	0.1	86.10	8.61	8.61	0.0002		
747.2	0.1	0.2	172.20	17.22	25.83	0.0006		
747.3	0.1	0.3	258.30	25.83	51.66	0.0012		
747.4	0.1	0.4	344.40	34.44	86.10	0.0020		
747.5	0.1	0.5	430.50	43.05	129.15	0.0030		
747.6	0.1	0.6	516.60	51.66	180.81	0.0042		
747.7	0.1	0.7	602.70	60.27	241.08	0.0055		
747.8	0.1	0.8	688.80	68.88	309.96	0.0071		
747.9	0.1	0.9	774.90	77.49	387.45	0.0089		
748	0.1	1	861.00	86.10	473.55	0.0109		
748.1	0.1	1.1	915.09	91.51	565.06	0.0130		
748.2	0.1	1.2	969.18	96.92	661.98	0.0152		
748.3	0.1	1.3	1023.27	102.33	764.30	0.0175		
748.4	0.1	1.4	1077.36	107.74	872.04	0.0200		
748.5	0.1	1.5	1131.45	113.15	985.19	0.0226		
748.6	0.1	1.6	1185.54	118.55	1103.74	0.0253		
748.7	0.1	1.7	1239.63	123.96	1227.70	0.0282		
748.8	0.1	1.8	1293.72	129.37	1357.07	0.0312		
748.9	0.1	1.9	1347.81	134.78	1491.86	0.0342		
749	0.1	2	1401.90	140.19	1632.05	0.0375		
749.1	0.1	2.1	1461.65	146.17	1778.21	0.0408		
749.2	0.1	2.2	1521.40	152.14	1930.35	0.0443		
749.3	0.1	2.3	1581.15	158.12	2088.47	0.0479		
749.4	0.1	2.4	1640.90	164.09	2252.56	0.0517		
749.5	0.1	2.5	1700.65	170.07	2422.62	0.0556		
749.6	0.1	2.6	1760.40	176.04	2598.66	0.0597		
749.7	0.1	2.7	1820.15	182.02	2780.68	0.0638		
749.8	0.1	2.8	1879.90	187.99	2968.67	0.0682		
749.9	0.1	2.9	1939.65	193.97	3162.63	0.0726		
750	0.1	3	1999.40	199.94	3362.57	0.0772		
750.1	**0.1**	**3.1**	**2085.53**	**208.55**	**3571.12**	**0.0820**	**0.41**	**2 year**
750.2	0.1	3.2	**2171.66**	217.17	3788.29	0.0870		
750.3	0.1	3.3	**2257.79**	225.78	4014.07	0.0922		
750.4	0.1	3.4	**2343.92**	234.39	4248.46	0.0975		
750.5	0.1	3.5	**2430.05**	243.01	4491.47	0.1031		
750.6	0.1	3.6	**2516.18**	251.62	4743.08	0.1089		
750.7	0.1	3.7	**2602.31**	260.23	5003.31	0.1149		
750.8	0.1	3.8	**2688.44**	268.84	5272.16	0.1210		
750.9	0.1	3.9	**2774.57**	277.46	5549.62	0.1274		
751	0.1	4	2860.70	286.07	5835.69	0.1340		
751.1	0.1	4.1	3030.13	303.01	6138.70	0.1409		
751.2	0.1	4.2	3199.56	319.96	6458.65	0.1483		
751.3	**0.1**	**4.3**	**3368.99**	**336.90**	**6795.55**	**0.1560**	**0.48**	**10 year**
751.4	0.1	4.4	3538.42	353.84	7149.40	0.1641		
751.5	0.1	4.5	3707.85	370.79	7520.18	0.1726		
751.6	0.1	4.6	3877.28	387.73	7907.91	0.1815		
751.7	**0.1**	**4.7**	**4046.71**	**404.67**	**8312.58**	**0.1908**	**0.94**	**25 year**
751.8	0.1	4.8	4216.14	421.61	8734.19	0.2005		
751.9	0.1	4.9	4385.57	438.56	9172.75	0.2106		
752	0.1	5	4555.00	455.50	9628.25	0.2210		
752.1	**0.1**	**5.1**	**4600.00**	**460.00**	**10088.25**	**0.2316**	**1.10**	**50 year**
752.2	0.1	5.2	4729.72	472.97	10561.22	0.2425		
752.3	0.1	5.3	4859.43	485.94	11047.16	0.2536		
752.4	**0.1**	**5.4**	**4989.15**	**498.91**	**11546.08**	**0.2651**	**1.21**	**100 year**
752.5	0.1	5.5	5005.00	500.50	12046.58	0.28		

ATLAS 14 HEC-HMS HYDROLOGIC ROUTING SUMMARY for DA 1

NRCS TR-55 SCS Time of Concentration Time (hours)										Flow Summary							
Segment #1		Segment #2		Segment #3		Segment #4		Segment #5		Area	Tc	Cn	Q2	Q10	Q25	Q50	Q100
Sheet Flow		Shallow Concent		Shallow Concent		Channelized		Channelized		acres	hours	-	cfs	cfs	cfs	cfs	cfs
Mannings "n"	0	Unpaved		Unpaved		Mannings "n"	0	Mannings "n"	0	0.18	0.0833	80	1	1.39	1.68	1.92	2.16
Length (ft)	0	Length (ft)		Length (ft)	0	Length (ft)	0	Length (ft)	0	Impervious Cvr =	100.0%						
Slope (%)	0	Slope (%)		Slope (%)	0	Slope (%)	0	Slope (%)	0								
2-yr, 24 hr rainfall						Velocity (fps)	0	Velocity (fps)	0								
segment total	n/a	segment total	n/a	segment total	n/a	segment total	n/a	segment total	n/a								
USER DEFINED								Tc min =	0.0833	SCS Lag Time (.6 x Tc)=		0.05	hours		3.0	minutes	

ATLAS 14 HEC-HMS HYDROLOGIC ROUTING SUMMARY for DA 2

NRCS TR-55 SCS Time of Concentration Time (hours)										Flow Summary							
Segment #1		Segment #2		Segment #3		Segment #4		Segment #5		Area	Tc	Cn	Q2	Q10	Q25	Q50	Q100
Sheet Flow		Shallow Concent		Shallow Concent		Channelized		Channelized		acres	hours	-	cfs	cfs	cfs	cfs	cfs
Mannings "n"		Unpaved		Unpaved		Mannings "n"		Mannings "n"		0.31	0.0833	80	1.4	2.19	2.73	3.17	3.62
Length (ft)		Length (ft)		Length (ft)		Length (ft)		Length (ft)		Impervious Cvr =	57.1%						
Slope (%)		Slope (%)		Slope (%)		Slope (%)		Slope (%)									
2-yr, 24 hr rainfall						Velocity (fps)		Velocity (fps)									
segment total	n/a	segment total	n/a	segment total	n/a	segment total	n/a	segment total	n/a								
USER DEFINED								time of conc.(hrs)	0.0833	SCS Lag Time (.6 x Tc)=		0.04998	hours		3.0	minutes	

ATLAS 14 HEC-HMS HYDROLOGIC ROUTING SUMMARY for DA 3

NRCS TR-55 SCS Time of Concentration Time (hours)										Flow Summary							
Segment #1		Segment #2		Segment #3		Segment #4		Segment #5		Area	Tc	Cn	Q2	Q10	Q25	Q50	Q100
Sheet Flow		Shallow Concent		Shallow Concent		Channelized		Channelized		acres	hours	-	cfs	cfs	cfs	cfs	cfs
Mannings "n"		Unpaved		Unpaved		Mannings "n"		Mannings "n"		0.19	0.0833	80	0.6	1.16	1.51	1.79	2.09
Length (ft)		Length (ft)		Length (ft)		Length (ft)		Length (ft)		Impervious Cvr =	4.8%						
Slope (%)		Slope (%)		Slope (%)		Slope (%)		Slope (%)		Pond Outflow DA 1-3,5=			0.41	0.48	0.943	1.1	1.213
2-yr, 3 hr rainfall						Velocity (fps)		Velocity (fps)		Peak Storage (ac-ft) =			0.077	0.147	0.181	0.218	0.266
segment total	n/a	segment total	n/a	segment total	n/a	segment total	n/a	segment total	n/a	Water Surface Elev (ft) =			750.11	751.27	751.73	752.05	752.40
USER DEFINED								time of conc.(hrs)	0.0833	SCS Lag Time (.6 x Tc)=		0.04998	hours		3.0	minutes	

ATLAS 14 HEC-HMS HYDROLOGIC ROUTING SUMMARY for DA 4

NRCS TR-55 SCS Time of Concentration Time (hours)										Flow Summary							
Segment #1		Segment #2		Segment #3		Segment #4		Segment #5		Area	Tc	Cn	Q2	Q10	Q25	Q50	Q100
Sheet Flow		Shallow Concent		Shallow Concent		Channelized		Channelized		acres	hours	-	cfs	cfs	cfs	cfs	cfs
Mannings "n"		Unpaved		Unpaved		Mannings "n"		Mannings "n"		0.245	0.0833	80	1.1	1.71	2.13	2.47	2.81
Length (ft)		Length (ft)		Length (ft)		Length (ft)		Length (ft)		Impervious Cvr =	59.9%						
Slope (%)		Slope (%)		Slope (%)		Slope (%)		Slope (%)									
2-yr, 24 hr rainfall						Velocity (fps)		Velocity (fps)									
segment total	n/a	segment total	n/a	segment total	n/a	segment total	n/a	segment total	n/a								
USER DEFINED								time of conc.(hrs)	0.0833	SCS Lag Time (.6 x Tc)=		0.04998	hours		3.0	minutes	

ATLAS 14 HEC-HMS HYDROLOGIC ROUTING SUMMARY for DA 5

NRCS TR-55 SCS Time of Concentration Time (hours)										Flow Summary							
Segment #1		Segment #2		Segment #3		Segment #4		Segment #5		Area	Tc	Cn	Q2	Q10	Q25	Q50	Q100
Sheet Flow		Shallow Concent		Shallow Concent		Channelized		Channelized		acres	hours	-	cfs	cfs	cfs	cfs	cfs
Mannings "n"		Unpaved		Unpaved		Mannings "n"		Mannings "n"		0.09	0.0833	80	0.4	0.61	0.765	0.89	1.02
Length (ft)		Length (ft)		Length (ft)		Length (ft)		Length (ft)		Impervious Cvr =	46.6%						
Slope (%)		Slope (%)		Slope (%)		Slope (%)		Slope (%)									
2-yr, 24 hr rainfall						Velocity (fps)		Velocity (fps)									
segment total	n/a	segment total	n/a	segment total	n/a	segment total	n/a	segment total	n/a								
USER DEFINED								time of conc.(hrs)	0.0833	SCS Lag Time (.6 x Tc)=		0.04998	hours		3.0	minutes	

ATLAS 14 HEC-HMS HYDROLOGIC ROUTING SUMMARY for DA 6

NRCS TR-55 SCS Time of Concentration Time (hours)										Flow Summary							
Segment #1		Segment #2		Segment #3		Segment #4		Segment #5		Area	Tc	Cn	Q2	Q10	Q25	Q50	Q100
Sheet Flow		Shallow Concent		Shallow Concent		Channelized		Channelized		acres	hours	-	cfs	cfs	cfs	cfs	cfs
Mannings "n"		Unpaved		Unpaved		Mannings "n"		Mannings "n"		0.28	0.0833	80	1.5	2.18	2.64	3.01	3.39
Length (ft)		Length (ft)		Length (ft)		Length (ft)		Length (ft)		Impervious Cvr =	50.5%						
Slope (%)		Slope (%)		Slope (%)		Slope (%)		Slope (%)									
2-yr, 24 hr rainfall						Velocity (fps)		Velocity (fps)									
segment total	n/a	segment total	n/a	segment total	n/a	segment total	n/a	segment total	n/a								
USER DEFINED								time of conc.(hrs)	0.0833	SCS Lag Time (.6 x Tc)=		0.04998	hours		3.0	minutes	

ATLAS 14 HEC-HMS HYDROLOGIC ROUTING SUMMARY for OFF DA 1

NRCS TR-55 SCS Time of Concentration Time (hours)										Flow Summary							
Segment #1		Segment #2		Segment #3		Segment #4		Segment #5		Area	Tc	Cn	Q2	Q10	Q25	Q50	Q100
Sheet Flow		Shallow Concent		Shallow Concent		Channelized		Channelized		acres	hours	-	cfs	cfs	cfs	cfs	cfs
Mannings "n"		Unpaved		Unpaved		Mannings "n"		Mannings "n"		0.08	0.0833	80	0.3	0.53	0.66	0.77	0.88
Length (ft)		Length (ft)		Length (ft)		Length (ft)		Length (ft)		Impervious Cvr =	98.0%						
Slope (%)		Slope (%)		Slope (%)		Slope (%)		Slope (%)									
2-yr, 24 hr rainfall						Velocity (fps)		Velocity (fps)									
segment total	n/a	segment total	n/a	segment total	n/a	segment total	n/a	segment total	n/a								
USER DEFINED								time of conc.(hrs)	0.0833	SCS Lag Time (.6 x Tc)=		0.04998	hours		3.0	minutes	

PLEASE REFER TO SHEET C73 FOR TCEQ CALCULATIONS AND BMP DETAILS

TCEQ ACCOUNTING TABLE

Year	Project Name	Project Area	Existing IC	IC Inc/Dec	Project Total IC	Project IC	Cum. BMP Area	Cum. BMP IC	Percent IC	BMP Type
1995	Best Western	1.563	0	1.49	1.49	95.33%	1.56	1.49	95.33%	sed/fil
1996	Damons	3.31	0	2.1	2.1	63.44%	4.88	3.59	73.52%	sed/fil
2007	Y - Mod	3.31	2.1	0.26	2.36	71.30%	4.88	3.85	78.84%	sed/fil
2007	Y Exc Req	4.092	3.689	(0.18)	3.51	85.78%	8.98	7.36	82.01%	sed/fil
2019	Y Exc Req	3.31	2.19	(0.08)	2.11	63.75%	8.98	7.28	81.11%	sed/fil
2023	Exc Req	6.52	5.79	(0.25)	5.543	85.02%	8.98	7.03	78.36%	sed/fil
2024	YMCA Mod	1.001	0.52	0.04	0.558	55.74%	9.98	7.07	70.88%	jellyfish

schaefer architecture

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Wichita, KS, 67202
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PROGRESS DRAWINGS NOT FOR CONSTRUCTION

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MECHANICAL ENGINEERS

MIDWEST ENGINEERING, INC.
ELECTRICAL ENGINEERS

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JOB NO. 22-036 © 2024 HEA, Inc.

STATE OF TEXAS
TERRY R. HAGOOD
52960
REGISTERED PROFESSIONAL ENGINEER

52960
THIS DRAWING MAY NOT BE MODIFIED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ENGINEER, AND THEN ONLY IN ACCORDANCE WITH THE RULES OF THE TEXAS ENGINEERING PRACTICE ACT.

DATE SIGNED: 06/12/2024
ISSUED FOR: AGENCY REVIEW

HEA PROJECT NO.

HEA PROJECT NO.22-036
ISSUED DATE: 06/12/2024

DEVELOPED DRAINAGE AREA

08

DDA

SDP23-00040

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CITY OF ROUND ROCK GENERAL CONSTRUCTION NOTES

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF ROUND ROCK STANDARD SPECIFICATIONS
2. ANY EXISTING UTILITIES, PAVEMENT, CURBS, SIDEWALKS, STRUCTURES, TREES, ETC., NOT PLANNED FOR DEMOLITION OR REMOVAL THAT ARE DAMAGED OR REMOVED SHALL BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR SHALL VERIFY ALL DEPTHS AND LOCATIONS OF EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES WITH THE CONSTRUCTION PLANS FOUND IN THE FIELD SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER WHO SHALL BE RESPONSIBLE FOR REVISING THE PLANS AS APPROPRIATE.
4. MANHOLE FRAMES, COVERS, VALVES, CLEANOUTS, ETC. SHALL BE RAISED TO FINISHED GRADE PRIOR TO FINAL PAVING CONSTRUCTION.
5. THE CONTRACTOR SHALL GIVE THE CITY OF ROUND ROCK 48 HOURS NOTICE BEFORE BEGINNING EACH PHASE OF CONSTRUCTION. TELEPHONE 512-218-5428 (PLANNING AND DEVELOPMENT SERVICES DEPARTMENT).
6. ALL AREAS DISTURBED OR EXPOSED DURING CONSTRUCTION SHALL BE REVEGETATED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AS WELL AS THE STANDARD SPECIFICATIONS MANUAL SERIES 600. REVEGETATION OF ALL DISTURBED OR EXPOSED AREAS SHALL CONSIST OF SODDING OR SEEDING, AT THE CONTRACTOR'S OPTION. HOWEVER, THE TYPE OF REVEGETATION MUST EQUAL OR EXCEED THE TYPE OF VEGETATION PRESENT BEFORE CONSTRUCTION.
7. PRIOR TO ANY CONSTRUCTION, THE ENGINEER SHALL CONVENE A PRECONSTRUCTION CONFERENCE BETWEEN THE CITY OF ROUND ROCK, HIMSELF, THE CONTRACTOR, OTHER UTILITY COMPANIES, ANY AFFECTED PARTIES AND ANY OTHER ENTITY THE CITY OR ENGINEER MAY REQUIRE.
8. THE CONTRACTOR AND THE ENGINEER SHALL KEEP ACCURATE RECORDS OF ALL CONSTRUCTION THAT DEVIATES FROM THE PLANS. ANY DEVIATIONS SHALL BE INCORPORATED INTO A REVISION AND APPROVED BY PLANNING AND DEVELOPMENT SERVICES. THE ENGINEER SHALL FURNISH THE CITY OF ROUND ROCK ACCURATE "AS-BUILT RECORD" DRAWINGS FOLLOWING COMPLETION OF ALL CONSTRUCTION. THESE "AS-BUILT RECORD" DRAWINGS SHALL MEET WITH THE SATISFACTION OF THE PLANNING AND DEVELOPMENT SERVICES DEPARTMENT PRIOR TO FINAL ACCEPTANCE.
9. THE CITY OF ROUND ROCK SHALL NOT BE PETITIONED FOR ACCEPTANCE UNTIL ALL NECESSARY EASEMENT DOCUMENTS HAVE BEEN SIGNED AND RECORDED.
10. WHEN CONSTRUCTION IS BEING CARRIED OUT WITHIN EASEMENTS, THE CONTRACTOR SHALL CONFINE HIS WORK TO WITHIN THE PERMANENT AND ANY TEMPORARY EASEMENTS. PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TRASH AND DEBRIS WITHIN THE PERMANENT AND TEMPORARY EASEMENTS. CLEAN-UP SHALL BE TO THE SATISFACTION OF THE PLANNING AND DEVELOPMENT SERVICES INSPECTOR.
11. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL APPLY FOR AND SECURE ALL PROPER PERMITS FROM THE APPROPRIATE AUTHORITIES.
12. AVAILABLE BENCHMARKS THAT MAY BE UTILIZED FOR THE CONSTRUCTION OF THIS PROJECT ARE DESCRIBED AS FOLLOWS:

TBM #1 - MAG NAIL (SEE SP1)
PLANE COORDINATE SYSTEM = TEXAS COORDINATE SYSTEM CENTRAL ZONE, NAD 83, US. SURVEY FT.
ELEV = 750.03' NAVD'88 (GEOID 18)

TRENCH SAFETY NOTES:

1. IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND THE U. S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS, ALL TRENCHES OVER 5 FEET IN DEPTH IN EITHER HARD AND COMPACT OR SOFT AND UNSTABLE SOIL SHALL BE SLOPED, SHORED, SHEETED, BRACED OR OTHERWISE SUPPORTED. FURTHERMORE, ALL TRENCHES LESS THAN 5 FEET IN DEPTH SHALL ALSO BE EFFECTIVELY PROTECTED WHEN HAZARDOUS GROUND MOVEMENT MAY BE EXPECTED. A SITE SPECIFIC ENGINEERED TRENCH SAFETY SYSTEM, ACCEPTED BY PLANNING AND DEVELOPMENT SERVICES, SHALL BE UTILIZED FOR THIS PROJECT.
2. IN ACCORDANCE WITH THE U. S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS, WHEN PERSONS ARE IN TRENCHES 4 FEET DEEP OR MORE, ADEQUATE MEANS OF EXIT, SUCH AS A LADDER OR STEPS, MUST BE PROVIDED AND LOCATED SO AS TO REQUIRE NO MORE THAN 25 FEET OF LATERAL TRAVEL.
3. IF TRENCH SAFETY SYSTEM DETAILS WERE NOT PROVIDED IN THE PLANS BECAUSE TRENCHES WERE ANTICIPATED TO BE LESS THAN 5 FEET IN DEPTH AND DURING CONSTRUCTION IT IS FOUND THAT TRENCHES ARE IN FACT 5 FEET OR MORE IN DEPTH OR OR TRENCHES LESS THAN 5 FEET IN DEPTH ARE IN AN AREA WHERE HAZARDOUS GROUND MOVEMENT IS EXPECTED, ALL CONSTRUCTION SHALL CEASE, THE TRENCHED AREA SHALL BE BARRICADED AND THE ENGINEER NOTIFIED IMMEDIATELY. CONSTRUCTION SHALL NOT RESUME UNTIL APPROPRIATE TRENCH SAFETY SYSTEM DETAILS, AS DESIGNED BY A PROFESSIONAL ENGINEER, ARE RETAINED AND COPIES SUBMITTED TO THE CITY OF ROUND ROCK.

STREET AND DRAINAGE NOTES:

1. ALL TESTING SHALL BE DONE BY AN INDEPENDENT LABORATORY AT THE OWNER'S EXPENSE. ANY RETESTING SHALL BE PAID FOR BY THE CONTRACTOR. A CITY INSPECTOR SHALL BE PRESENT DURING ALL TESTS. TESTING SHALL BE COORDINATED WITH THE CITY INSPECTOR AND HE SHALL BE GIVEN A MINIMUM OF 24 HOURS NOTICE PRIOR TO ANY TESTING.
2. BACKFILL BEHIND THE CURB SHALL BE COMPACTED TO OBTAIN A MINIMUM OF 95% MAXIMUM DENSITY TO WITHIN 3" OF TOP OF CURB. MATERIAL USED SHALL BE PRIMARILY GRANULAR WITH NO ROCKS LARGER THAN 6" IN THE GREATEST DIMENSION. THE REMAINING 3" SHALL BE CLEAN TOPSOIL FREE FROM ALL CLODS AND SUITABLE FOR SUSTAINING PLANT LIFE.
3. DEPTH OF COVER FOR ALL CROSSINGS UNDER PAVEMENT INCLUDING GAS, ELECTRIC, TELEPHONE, CABLE TV, WATER SERVICES, ETC., SHALL BE A MINIMUM OF 30" BELOW SUBGRADE.
4. STREET RIGHTS-OF-WAY SHALL BE GRADED AT A SLOPE OF 1/4" PER FOOT TOWARD THE CURB UNLESS OTHERWISE INDICATED. HOWEVER, IN NO CASE SHALL THE WIDTH OF RIGHT-OF-WAY AT 1/4" PER FOOT SLOPE BE LESS THAN 10 FEET UNLESS A SPECIFIC REQUEST FOR AN ALTERNATE GRADING SCHEME IS MADE TO AND ACCEPTED BY THE CITY OF ROUND ROCK PLANNING AND DEVELOPMENT SERVICES DEPARTMENT.
5. BARRICADES BUILT TO CITY OF ROUND ROCK STANDARDS SHALL BE CONSTRUCTED ON ALL DEAD-END STREETS AND AS NECESSARY DURING CONSTRUCTION TO MAINTAIN JOB AND PUBLIC SAFETY.
6. ALL R.C.P. SHALL BE MINIMUM CLASS III.
7. THE SUBGRADE MATERIAL FOR THE STREETS SHOWN HEREIN WAS TESTED BY: ____RABA KISTNER____ IN A REPORT DATED ___MAY 19, 2023________, AND THE PAVING SECTIONS DESIGNED IN ACCORDANCE WITH THE CURRENT CITY OF ROUND ROCK DESIGN CRITERIA. THE PAVING SECTIONS ARE TO BE CONSTRUCTED AS FOLLOWS: SEE DETAIL SHEET C70

STREET	STATION	FLEX BASE THICKNESS	HMAC THICKNESS	LIME STAB THICKNESS
N/A				

THE GEOTECHNICAL ENGINEER SHALL INSPECT THE SUBGRADE FOR COMPLIANCE WITH THE DESIGN ASSUMPTIONS MADE DURING PREPARATION OF THE SOILS REPORT. ANY ADJUSTMENTS THAT ARE REQUIRED SHALL BE MADE THROUGH REVISION OF THE CONSTRUCTION PLANS.

8. WHERE PLASTICITY INDEX (PI) OVER 20, SUBGRADES MUST BE STABILIZED UTILIZING A METHOD ACCEPTABLE TO THE CITY ENGINEER. ANY LIME SHALL BE APPLIED TO THE SUBGRADE SOIL IN SLURRY FORM UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. THE GEOTECHNICAL ENGINEER SHALL RECOMMEND AN APPROPRIATE SUBGRADE STABILIZATION IF SULFATES ARE DETERMINED TO BE PRESENT.

WATER AND WASTEWATER NOTES:

1. PIPE MATERIAL FOR WATER MAINS SHALL BE PVC (AWWA C-900, MIN. CLASS 200), OR DUCTILE IRON (AWWA C100, MIN. CLASS 200). WATER SERVICES (2" OR LESS) SHALL BE POLYETHYLENE TUBING (BLACK, 200 PSI, DR9).
2. PIPE MATERIAL FOR PRESSURE WASTEWATER MAINS SHALL BE PVC (AWWA C-900, MIN. CLASS 150), SDR 26 HIGHER PRESSURE RATED (150+ PSI), OR DUCTILE IRON (AWWA C-100, MIN. CLASS 200). PIPE MATERIAL FOR GRAVITY WASTEWATER MAINS SHALL BE PVC (ASTM D2241 OR D3034, MAX. DR-26), DUCTILE IRON (AWWA C-100, MIN. CLASS 200).
3. UNLESS OTHERWISE ACCEPTED BY THE CITY ENGINEER, DEPTH OF COVER FOR ALL LINES OUT OF THE PAVEMENT SHALL BE 42" MINIMUM AND DEPTH OF COVER FOR ALL LINES UNDER PAVEMENT SHALL BE A MINIMUM OF 30" BELOW SUBGRADE.
4. ALL FIRE HYDRANT LEADS SHALL BE DUCTILE IRON PIPE (AWWA C-100, MIN. CLASS 200).
5. ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED WITH MINIMUM 8-MIL POLYETHYLENE AND SEALED WITH DUCT TAPE OR EQUAL ACCEPTED BY THE CITY ENGINEER.
6. THE CONTRACTOR SHALL CONTACT THE CITY OF ROUND ROCK CIVIL INSPECTOR TO COORDINATE UTILITY TIE-INS AND NOTIFY HIM AT LEAST 48 HOURS PRIOR TO CONNECTING TO EXISTING LINES.
7. ALL MANHOLES SHALL BE CONCRETE WITH CAST IRON RING AND COVER. ALL MANHOLES LOCATED OUTSIDE OF THE PAVEMENT SHALL HAVE BOLTED COVERS. TAPPING OF FIBERGLASS MANHOLES SHALL NOT BE ALLOWED.
8. THE CONTRACTOR MUST OBTAIN A BULK WATER PERMIT OR PURCHASE AND INSTALL A WATER METER FOR ALL WATER USED DURING CONSTRUCTION. A COPY OF THIS PERMIT MUST BE CARRIED AT ALL TIMES BY ALL WHO USE WATER.
9. LINE FLUSHING OR ANY ACTIVITY USING A LARGE QUANTITY OF WATER MUST BE SCHEDULED WITH THE CITY OF ROUND ROCK INSPECTOR.
10. THE CONTRACTOR, AT HIS EXPENSE, SHALL PERFORM STERILIZATION OF ALL POTABLE WATER LINES CONSTRUCTED AND SHALL PROVIDE ALL EQUIPMENT (INCLUDING TEST GAUGES), SUPPLIES (INCLUDING CONCENTRATED CHLORINE DISINFECTING MATERIAL), AND NECESSARY LABOR REQUIRED FOR THE STERILIZATION PROCEDURE. THE STERILIZATION PROCEDURE SHALL BE MONITORED BY CITY OF ROUND ROCK PERSONNEL. WATER SAMPLES WILL BE COLLECTED BY THE CITY OF ROUND ROCK TO VERIFY EACH TREATED LINE HAS ATTAINED AN INITIAL CHLORINE CONCENTRATION OF 50 PPM. WHERE MEANS OF FLUSHING IS NECESSARY, THE CONTRACTOR, AT HIS EXPENSE, SHALL PROVIDE FLUSHING DEVICES AND REMOVE SAID DEVICES PRIOR TO FINAL ACCEPTANCE BY THE CITY OF ROUND ROCK.
11. SAMPLING TAPS SHALL BE BROUGHT UP TO 3 FEET ABOVE GRADE AND SHALL BE EASILY ACCESSIBLE FOR CITY PERSONNEL. AT THE CONTRACTOR'S REQUEST, AND IN HIS PRESENCE, SAMPLES FOR BACTERIOLOGICAL TESTING WILL BE COLLECTED BY THE CITY OF ROUND ROCK NOT LESS THAN 24 HOURS AFTER THE TREATED LINE HAS BEEN FLUSHED OF THE CONCENTRATED CHLORINE SOLUTION AND CHARGED WITH WATER APPROVED BY THE CITY. THE CONTRACTOR SHALL SUPPLY A CHECK OR MONEY ORDER, PAYABLE TO THE CITY OF ROUND ROCK, TO COVER THE FEE CHARGED FOR TESTING EACH WATER SAMPLE. CITY OF ROUND ROCK FEE AMOUNTS MAY BE OBTAINED BY CALLING THE PLANNING AND DEVELOPMENT SERVICES DEPARTEMENT AT 512-218-5428.
12. THE CONTRACTOR, AT HIS EXPENSE, SHALL PERFORM QUALITY TESTING FOR ALL WASTEWATER PIPE INSTALLED AND PRESSURE PIPE HYDROSTATIC TESTING OF ALL WATER LINES CONSTRUCTED AND SHALL PROVIDE ALL EQUIPMENT (INCLUDING PUMPS AND GAUGES), SUPPLIES AND LABOR NECESSARY TO PERFORM THE TESTS. QUALITY AND PRESSURE TESTING SHALL BE MONITORED BY CITY OF ROUND ROCK PERSONNEL.
13. THE CONTRACTOR SHALL COORDINATE TESTING WITH THE CITY OF ROUND ROCK CIVIL INSPECTOR AND PROVIDE NO LESS THAN 24 HOURS NOTICE PRIOR TO PERFORMING STERILIZATION, QUALITY TESTING OR PRESSURE TESTING.
14. THE CONTRACTOR SHALL NOT OPEN OR CLOSE ANY VALVES UNLESS AUTHORIZED BY THE CITY OF ROUND ROCK.
15. ALL VALVE BOXES AND COVERS SHALL BE CAST IRON.
16. ALL WATER SERVICE, WASTEWATER SERVICE AND VALVE LOCATIONS SHALL BE APPROPRIATELY MARKED "(THROUGH CHISELING AND PAINTING)" AS FOLLOWS:

WATER SERVICE "W" ON TOP OF CURB
WASTEWATER SERVICE "S" ON TOP OF CURB
VALVE "V" ON FACE OF CURB

TOOLS FOR MARKING THE CURB SHALL BE PROVIDED BY THE CONTRACTOR. OTHER APPROPRIATE MEANS OF MARKING SERVICE AND VALVE LOCATIONS SHALL BE PROVIDED IN AREAS WITHOUT CURBS. SUCH MEANS OF MARKING SHALL BE AS SPECIFIED BY THE ENGINEER AND ACCEPTED BY THE CITY OF ROUND ROCK.

17. CONTACT THE CITY OF ROUND ROCK PLANNING AND DEVELOPMENT SERVICES DEPARTMENT AT 512-218-5428 FOR ASSISTANCE IN OBTAINING EXISTING WATER AND WASTEWATER LOCATIONS.
18. THE CITY OF ROUND ROCK FIRE DEPARTMENT SHALL BE NOTIFIED 48 HOURS PRIOR TO TESTING OF ANY BUILDING SPRINKLER PIPING IN ORDER THAT THE FIRE DEPARTMENT MAY MONITOR SUCH TESTING.
19. SAND, AS DESCRIBED IN SPECIFICATION ITEM 510 PIPE, SHALL NOT BE USED AS BEDDING FOR WATER AND WASTEWATER LINES. ACCEPTABLE BEDDING MATERIALS ARE PIPE BEDDING STONE, PEA GRAVEL AND IN LIEU OF SAND, A NATURALLY OCCURRING OR MANUFACTURED STONE MATERIAL CONFORMING TO ASTM C33 FOR STONE QUALITY AND MEETING THE FOLLOWING GRADATION SPECIFICATION.

SIEVE SIZE	PERCENT RETAINED BY WEIGHT
1/2"	0
3/8"	0-2
#4	40-85
#10	95-100

20. THE CONTRACTOR IS HEREBY NOTIFIED THAT CONNECTING TO, SHUTTING DOWN, OR TERMINATING EXISTING UTILITY LINES, MAY HAVE TO OCCUR AT OFF-PEAK HOURS. SUCH HOURS ARE USUALLY OUTSIDE NORMAL WORKING HOURS AND POSSIBLY BETWEEN 12 A.M. AND 6 A.M. "ANY WATER SHUTDOWN OR TIE-IN MUST BE SCHEDULED TEN (10) DAYS IN ADVANCE"
21. ALL WASTEWATER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) REGULATIONS, 30 TAC CHAPTER 213 AND 217, AS APPLICABLE. WHENEVER TCEQ AND CITY OF ROUND ROCK SPECIFICATIONS CONFLICT, THE MORE STRINGENT SHALL APPLY.

TRAFFIC MARKING NOTES:

1. ANY METHODS, STREET MARKINGS AND SIGNAGE NECESSARY FOR WARNING MOTORISTS, WARNING PEDESTRIANS OR DIVERTING TRAFFIC DURING CONSTRUCTION SHALL CONFORM TO THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITION.
2. ALL PAVEMENT MARKINGS, MARKERS, PAINT, TRAFFIC BUTTONS, TRAFFIC CONTROLS AND SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES AND, THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITIONS.

EROSION AND SEDIMENTATION CONTROL NOTES:

1. EROSION CONTROL MEASURES, SITE WORK AND RESTORATION WORK SHALL BE IN ACCORDANCE WITH THE CITY OF ROUND ROCK EROSION AND SEDIMENTATION CONTROL ORDINANCE.
2. ALL SLOPES SHALL BE SODDED OR SEEDED WITH APPROVED GRASS, GRASS MIXTURES OR GROUND COVER SUITABLE TO THE AREA AND SEASON IN WHICH THEY ARE APPLIED.
3. SILT FENCES, ROCK BERMS, SEDIMENTATION BASINS AND SIMILARLY RECOGNIZED TECHNIQUES AND MATERIALS SHALL BE EMPLOYED DURING CONSTRUCTION TO PREVENT POINT SOURCE SEDIMENTATION LOADING OF DOWNSTREAM FACILITIES. SUCH INSTALLATION SHALL BE REGULARLY INSPECTED BY THE CITY OF ROUND ROCK FOR EFFECTIVENESS. ADDITIONAL MEASURES MAY BE REQUIRED IF, IN THE OPINION OF THE CITY ENGINEER, THEY ARE WARRANTED.
4. ALL TEMPORARY EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL FINAL INSPECTION AND APPROVAL OF THE PROJECT BY THE ENGINEER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL TEMPORARY EROSION CONTROL STRUCTURES AND TO REMOVE EACH STRUCTURE AS APPROVED BY THE ENGINEER.
5. ALL MUD, DIRT, ROCKS, DEBRIS, ETC., SPILLED, TRACKED OR OTHERWISE DEPOSITED ON EXISTING PAVED STREETS, DRIVES AND AREAS USED BY THE PUBLIC SHALL BE CLEANED UP IMMEDIATELY.
6. ONCE REVEGETATION REQUIREMENTS HAVE BEEN MET, ALL TEMPORARY SEDIMENT CONTROLS (E.G. SILT FENCE, ROCK BERMS, INLET PROTECTION, ETC.) SHALL BE REMOVED FROM THE SITE AND DISPOSED. ANY DISTURBED AREAS SHALL BE CLEANED OF DIRT AND DEBRIS AND PROPERLY RAKED AND GRADED.

TREE PROTECTION NOTES:

1. ALL TREES NOT LOCATED WITHIN THE LIMITS OF CONSTRUCTION AND OUTSIDE OF DISTURBED AREAS SHALL BE PRESERVED. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL TREES TO BE PRESERVED FROM HIS ACTIVITIES.
2. ALL TREES SHOWN TO BE RETAINED WITHIN THE LIMITS OF CONSTRUCTION ON THE PLANS, SHALL BE PROTECTED DURING CONSTRUCTION WITH FENCING. SEE: TREE PROTECTION TREE WELLS (EC-06), TREE PROTECTION TREE LOCATION (EC-07) AND TREE PROTECTION FENCE-CHAIN LINK (EC-08).
3. TREE PROTECTION FENCES SHALL BE ERECTED ACCORDING TO CITY STANDARDS FOR TREE PROTECTION, INCLUDING TYPES OF FENCING AND SIGNAGE.
4. TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING, OR GRADING) AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE CONSTRUCTION PROJECT.
5. EROSION AND SEDIMENTATION CONTROL BARRIERS SHALL BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILD-UP WITHIN TREE DRIPLINES.
6. FENCES SHALL COMPLETELY SURROUND THE TREE OR CLUSTERS OF TREES, LOCATED AT THE OUTERMOST LIMITS OF THE TREE BRANCHES (DRIPLINE) OR CRITICAL ROOT ZONE (CRZ), WHICHEVER IS GREATER; AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT IN ORDER TO PREVENT THE FOLLOWING:
   - 6.1. SOIL COMPACTION IN CRZ AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIAL.
   - 6.2. CRZ DISTURBANCES DUE TO GRADE CHANGES OR TRENCHING NOT REVIEWED AND UTHORIZED BY THE FORESTRY MANAGER.
   - 6.3. WOUNDS TO EXPOSED ROOTS, TRUNK, OR LIMBS BY MECHANICAL EQUIPMENT
   - 6.4. OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CONCRETE TRUCK CLEANING, AND FIRES.
7. EXCEPTIONS TO INSTALLING TREE FENCES AT THE TREE DRIPLINES OR CRZ, WHICHEVER IS GREATER, MAY BE PERMITTED IN THE FOLLOWING CASES:
   - 7.1. WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, OR TREE WELL;
   - 7.2. HERE PERMEABLE PAVING IS TO BE INSTALLED, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA.
   - 7.3. HERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE NO CLOSER THAN 6 FEET TO THE BUILDING.
   - 7.4. HERE THERE ARE SEVERE SPACE CONSTRAINTS DUE TO TRACT SIZE, OR OTHER SPECIAL REQUIREMENTS, CONTACT THE FORESTRY MANAGER TO DISCUSS ALTERNATIVES.
8. HERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE THAT IS CLOSER THAN 5 FEET TO A TREE TRUNK, THE TRUNK SHALL BE PROTECTED BY STRAPPED-ON PLANKING TO A HEIGHT OF 8 FEET (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING PROVIDED.
9. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN AREAS OF UNPROTECTED ROOT ZONES UNDER THE DRIPLINE OR CRZ, WHICHEVER IS GREATER, THOSE AREAS SHOULD BE COVERED WITH 4 INCHES OF ORGANIC MULCH TO MINIMIZE SOIL COMPACTION.
10. ALL GRADING WITHIN CRZ AREAS SHALL BE DONE BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE. PRIOR TO GRADING, RELOCATE PROTECTIVE FENCING TO 2 FEET BEHIND THE GRADE CHANGE AREA.
11. ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL AND BACKFILLED WITH GOOD QUALITY TOP SOIL WITHIN TWO DAYS. IF EXPOSED ROOT AREAS CANNOT BE BACKFILLED WITHIN 2 DAYS, AN ORGANIC MATERIAL WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION SHALL BE PLACED TO COVER THE ROOTS UNTIL BACKFILL CAN OCCUR.
12. PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE DRIPLINES, A CLEAN CUT SHALL BE MADE WITH A ROCK SAW OR SIMILAR EQUIPMENT, IN A LOCATION AND TO A DEPTH APPROVED BY THE FORESTRY MANAGER, TO MINIMIZE DAMAGE TO REMAINING ROOTS.
13. TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES WILL BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TREE CROWNS ARE TO BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON LEAVES.
14. WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, A PLASTIC VAPOR BARRIER SHALL BE PLACED BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE CRZ.
15. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
16. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN FOUR (4) INCHES SHALL BE PERMITTED WITHIN THE DRIPLINE OR CRZ OF TREES, WHICHEVER IS GREATER. NO TOPSOIL IS PERMITTED ON ROOT FLARES OF ANY TREE.
17. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC, AND CONSTRUCTION EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS. ALL PRUNING MUST BE DONE ACCORDING TO CITY STANDARDS AND AS OUTLINED IN LITERATURE PROVIDED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA PRUNING TECHNIQUES).
18. ALL OAK TREE CUTS, INTENTIONAL OR UNINTENTIONAL, SHALL BE SEALED WITH AN APPROVED PRUNING SEALER IMMEDIATELY (WITHIN 10 MINUTES). TREE PAINT MUST BE KEPT ON SITE AT ALL TIMES.
19. THE FORESTRY MANAGER HAS THE AUTHORITY TO REQUIRE ADDITIONAL TREE PROTECTION BEFORE OR DURING CONSTRUCTION.
20. TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED. REFER TO THE CITY OF ROUND ROUND ROCK TREE TECHNICAL MANUAL FOR APPROPRIATE REMOVAL METHODS.
21. PRIOR TO CONSTRUCTION, ALL LOWER TREE LIMBS OVER ROADWAYS MUST BE PRUNED TO A HEIGHT OF 14 FEET USING THE TECHNIQUES DESCRIBED IN THE CITY OF ROUND ROCK TREE TECHNICAL MANUAL.
22. DEVIATIONS FROM THE ABOVE REQUIREMENTS AND NEGLIGENT DAMAGE TO TREES MAY BE CONSIDERED AS ORDINANCE VIOLATIONS.

SEQUENCE OF CONSTRUCTION:

A. INSTALL EROSION CONTROLS AS INDICATED ON APPROVED SITE PLAN.
B. INSTALL TREE PROTECTION AS NOTED ON APPROVED SITE PLAN.
C. SCHEDULE PRE CONSTRUCTION MEETING WITH THE CITY OF ROUND ROCK INSPECTION DEPT., CONTRACTOR, UTILITY CONTRACTOR, AND ENGINEER. 218-6607.
D. EVALUATION OF TEMPORARY EROSION CONTROL INSTALLATION. REVIEW CONSTRUCTION SCHEDULE AND THE EROSION CONTROL PLAN.
E. BEGIN SITE CLEARING.
F. INSTALL TEMPORARY SEDIMENTATION PONDS AND ROUGH GRADE SITE. INSPECT AND MAINTAIN ALL CONTROLS AS PER GENERAL NOTES.
G. CONSTRUCT SITE UTILITIES.
H. MID-CONSTRUCTION ON-SITE MEETING TO COORDINATE CHANGES IN CONSTRUCTION SCHEDULE AND EVALUATE EFFECTIVENESS OF EROSION CONTROL PLAN (CITY INSPECTOR, PROJECT ENGINEER, GENERAL CONTRACTOR).
I. CONSTRUCT PAVING, PARKING AND BUILDINGS.
J. COMPLETE CONSTRUCTION AND INSTALL LANDSCAPING.
K. PROVIDE AS-BUILTS TO ENGINEER.
L. REVEGETATE DISTURBED AREAS OR COMPLETE A DEVELOPERS CONTRACT FOR THE RE-VEGETATION ALONG WITH THE ENGINEERS CONCURRENCE LETTER.
M. PROJECT ENGINEER INSPECTS JOB AND WRITES CONCURRENCE LETTER TO THE CITY, FINAL INSPECTION IS SCHEDULED UPON RECEIPT OF THE LETTER
N. RECEIVE CITY CLEARANCE FOR OCCUPANCY.
O. REMOVE TEMPORARY EROSION/SEDIMENTATION CONTROLS.

TCEQ WPAP NOTES

(REV. 7/15/15)
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER POLLUTION ABATEMENT PLAN
GENERAL CONSTRUCTION NOTES

1. A WRITTEN NOTICE OF CONSTRUCTION MUST BE SUBMITTED TO THE TCEQ REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF ANY REGULATED ACTIVITIES. THIS NOTICE MUST INCLUDE:
   - THE NAME OF THE APPROVED PROJECT;
   - THE ACTIVITY START DATE; AND
   - THE CONTACT INFORMATION OF THE PRIME CONTRACTOR.
2. ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT MUST BE PROVIDED WITH COMPLETE COPIES OF THE APPROVED WATER POLLUTION ABATEMENT PLAN (WPAP) AND THE TCEQ LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL. DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTORS ARE REQUIRED TO KEEP ON-SITE COPIES OF THE APPROVED PLAN AND APPROVAL LETTER.
3. IF ANY SENSITIVE FEATURE(S) (CAVES, SOLUTION CAVITY, SINK HOLE, ETC.) IS DISCOVERED DURING CONSTRUCTION, ALL REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MUST BE SUSPENDED IMMEDIATELY. THE APPROPRIATE TCEQ REGIONAL OFFICE MUST BE IMMEDIATELY NOTIFIED OF ANY SENSITIVE FEATURES ENCOUNTERED DURING CONSTRUCTION. CONSTRUCTION ACTIVITIES MAY NOT BE RESUMED UNTIL THE TCEQ HAS REVIEWED AND APPROVED THE APPROPRIATE PROTECTIVE MEASURES IN ORDER TO PROTECT ANY SENSITIVE FEATURE AND THE EDWARDS AQUIFER FROM POTENTIALLY ADVERSE IMPACTS TO WATER QUALITY.
4. NO TEMPORARY OR PERMANENT HAZARDOUS SUBSTANCE STORAGE TANK SHALL BE INSTALLED WITHIN 150 FEET OF A WATER SUPPLY SOURCE, DISTRIBUTION SYSTEM, WELL, OR SENSITIVE FEATURE.
5. PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED PLANS AND MANUFACTURERS SPECIFICATIONS. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS. THESE CONTROLS MUST REMAIN IN PLACE UNTIL THE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
6. ANY SEDIMENT THAT ESCAPES THE CONSTRUCTION SITE MUST BE COLLECTED AND PROPERLY DISPOSED OF BEFORE THE NEXT RAIN EVENT TO ENSURE IT IS NOT WASHED INTO SURFACE STREAMS, SENSITIVE FEATURES, ETC.
7. SEDIMENT MUST BE REMOVED FROM THE SEDIMENT TRAPS OR SEDIMENTATION BASINS NOT LATER THAN TCEQ-0592 WHEN IT OCCUPIES 50% OF THE BASIN'S DESIGN CAPACITY.
8. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BEING DISCHARGED OFFSITE.
9. ALL SPOILS (EXCAVATED MATERIAL) GENERATED FROM THE PROJECT SITE MUST BE STORED ON-SITE WITH PROPER E&S CONTROLS. FOR STORAGE OR DISPOSAL OF SPOILS AT ANOTHER SITE ON THE EDWARDS AQUIFER RECHARGE ZONE, THE OWNER OF THE SITE MUST RECEIVE APPROVAL OF A WATER POLLUTION ABATEMENT PLAN FOR THE PLACEMENT OF FILL MATERIAL OR MASS GRADING PRIOR TO THE PLACEMENT OF SPOILS AT THE OTHER SITE.
10. IF PORTIONS OF THE SITE WILL HAVE A TEMPORARY OR PERMANENT CEASE IN CONSTRUCTION ACTIVITY LASTING LONGER THAN 14 DAYS, SOIL STABILIZATION IN THOSE AREAS SHALL BE INITIATED AS SOON AS POSSIBLE PRIOR TO THE 14TH DAY OF INACTIVITY. IF ACTIVITY WILL RESUME PRIOR TO THE 21ST DAY, STABILIZATION MEASURES ARE NOT REQUIRED. IF DROUGHT CONDITIONS OR INCLEMENT WEATHER PREVENT ACTION BY THE 14TH DAY, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE.
11. THE FOLLOWING RECORDS SHALL BE MAINTAINED AND MADE AVAILABLE TO THE TCEQ UPON REQUEST:
    - THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR;
    - THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; AND
    - THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.
12. THE HOLDER OF ANY APPROVED EDWARD AQUIFER PROTECTION PLAN MUST NOTIFY THE APPROPRIATE REGIONAL OFFICE IN WRITING AND OBTAIN APPROVAL FROM THE EXECUTIVE DIRECTOR PRIOR TO INITIATING ANY OF THE FOLLOWING:
    - A. ANY PHYSICAL OR OPERATIONAL MODIFICATION OF ANY WATER POLLUTION ABATEMENT STRUCTURE(S), INCLUDING BUT NOT LIMITED TO PONDS, DAMS, BERMS, SEWAGE TREATMENT PLANTS, AND DIVERSIONARY STRUCTURES;
    - B. ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS ORIGINALLY APPROVED OR A CHANGE WHICH WOULD SIGNIFICANTLY IMPACT THE ABILITY OF THE PLAN TO PREVENT POLLUTION OF THE EDWARDS AQUIFER;
    - C. ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED AS UNDEVELOPED IN THE ORIGINAL WATER POLLUTION ABATEMENT PLAN.

AUSTIN REGIONAL OFFICE 12100 PARK 35 CIRCLE, BLDG. A AUSTIN, TEXAS 78753 PHONE (512) 339-2929 FAX (512) 339-3795	SAN ANTONIO REGIONAL OFFICE 14250 JUDSON ROAD SAN ANTONIO, TEXAS 78233-4480 PHONE (210) 490-3096 FAX (210) 545-4329

SUMMARY TABLES

FIRE HYDRANTS		
TOTAL		BRAND
1	EA.	

VALVES		
SIZE	TOTAL	BRAND
6	1	
8"		

SIDEWALK	
TOTAL	LF
4'	471.4500
5'	

PIPE SIZE	WATER		
	TYPE	LENGTH (LF)	VOL (GAL)
2"	BLACK POLY		
6"	DI	7.6000	
8"	C900		

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ISSUED DATE: 06/12/2024

GENERAL NOTES

09

C00

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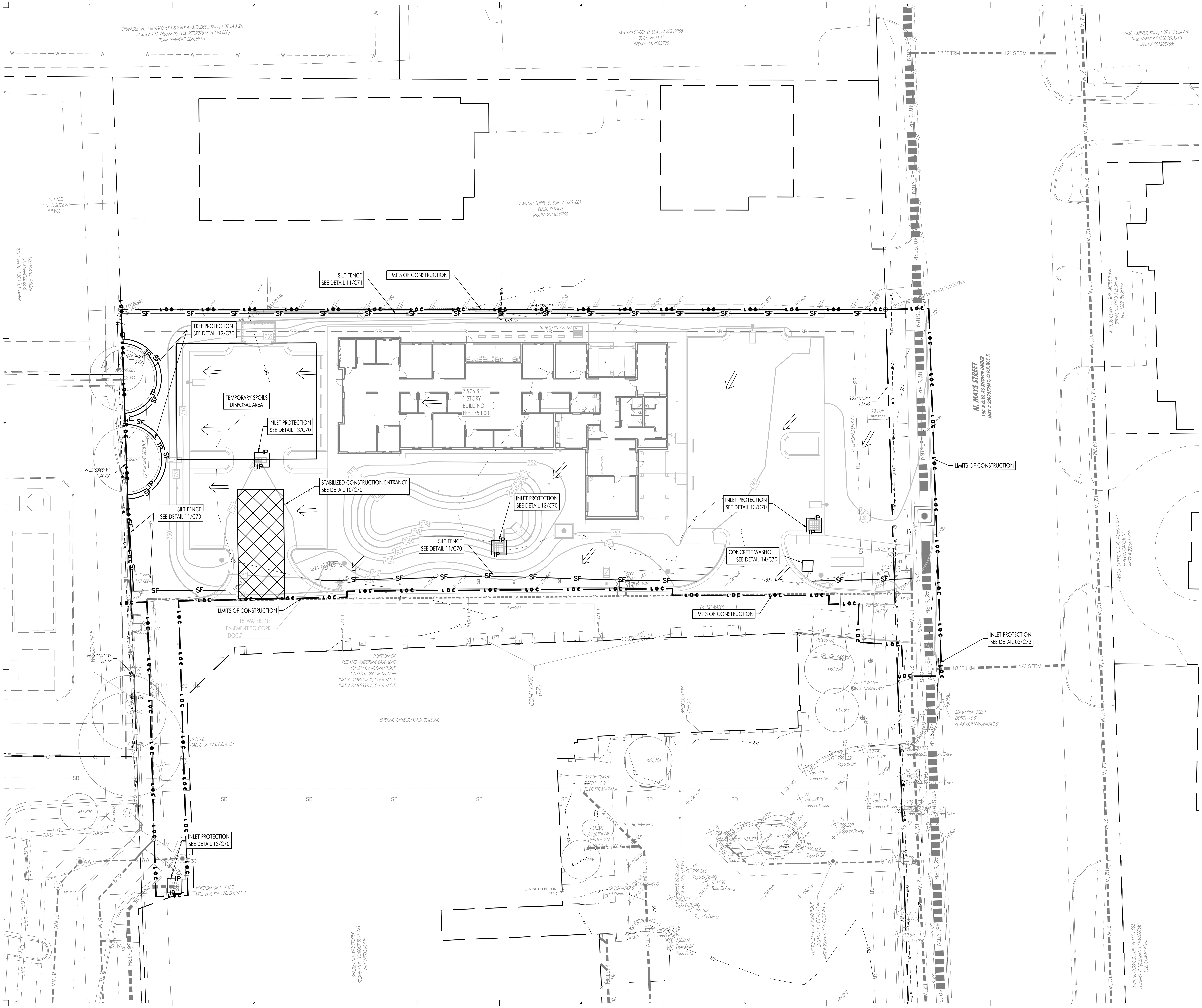

SCALE: 1"=20'

LEGEND

- IRON ROD FOUND/SET
- CONCRETE MONUMENT FOUND/SET
- NAIL FOUND/SET
- PIPE FOUND
- STORMWATER MANHOLE (TO SCALE)
- JUNCTION BOX (TO SCALE)
- GRATE INLET (TO SCALE)
- WASTEWATER MANHOLE (TO SCALE)
- WASTEWATER CLEANOUT
- GAS TEST STATION
- GAS METER
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- UTILITY POLE
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- WATER METER
- EXISTING CONTOURS
- PROPOSED CONTOUR
- PROPOSED CURB AND GUTTER
- PROPOSED ASPHALT
- PROPOSED X" DIA. GAS LINE
- PROPOSED X" DIA. STORM SEWER LINE
- PROPOSED X" DIA. WASTEWATER LINE
- PROPOSED X" DIA. WATER LINE
- EXISTING CHAIN LINK FENCE
- EXISTING WIRE FENCE
- EXISTING WOOD FENCE
- SETBACK LINE
- EASEMENT LINE
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- EXISTING OVERHEAD TELEPHONE LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING WATER LINE (SIZE VARIES)
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- EXISTING FORCE MAIN (SIZE VARIES)
- EXISTING FIBER OPTIC LINE
- EXISTING GAS LINE (SIZE VARIES)
- BENCHMARK LOCATION
- EXISTING TREE TO REMAIN (SIZE VARIES)
- EXISTING TREE TO BE REMOVED (SIZE VARIES)
- MONARCH/HERITAGE TREE (SIZE VARIES)
- PARKING COUNT
- PARCEL LINES
- HANDICAP ACCESS LINES
- CONCRETE PAVING
- ASPHALT PAVING
- CONCRETE SIDEWALK
- CONCRETE WASHOUT
- STABILIZED CONSTRUCTION ENTRANCE
- SILT FENCE
- ROCK BERM
- INLET PROTECTION
- TREE PROTECTION
- MULCH SOCK
- LIMITS OF CONSTRUCTION

NOTES:

1. CONTRACTOR TO ENSURE AT ALL TIMES, CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THROUGH A STABILIZED CONSTRUCTION ENTRANCE.
2. ALL DIRT, MUD, ROCKS, DEBRIS, ETC. SPILLED, TRACKED, OR OTHERWISE DEPOSITED ON ANY EXISTING PAVED STREETS, DRIVES AND AREAS USED BY THE PUBLIC SHALL BE CLEANED UP IMMEDIATELY.
3. CONTRACTOR TO IMPLEMENT TRAFFIC CONTROL MEASURES AS REQUIRED WHEN NECESSARY.
4. EROSION CONTROLS SHALL BE IN PLACE PRIOR TO ANY DEMOLITION.
5. THE CONTRACTOR SHALL CONSTRUCT AN ALL WEATHER SURFACE ACCESS DRIVE PRIOR TO GOING VERTICAL WITH THE BUILDING STRUCTURE. DIRT WORK AND FOUNDATION WORK MAY BE DONE PRIOR TO THE CONSTRUCTION OF THIS REQUIREMENT. ALL WEATHER SURFACE IS DEFINED AS ASPHALT, CONCRETE OR CHIP SEAL OVER AN ENGINEERED COMPACTED BASE.
6. ALL DISTURBED AREAS SHALL BE REVEGETATED AND ESTABLISHED PER CITY OF ROUND ROCK AND TCEQ REQUIREMENTS PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY.
7. DURING CONSTRUCTION, ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE SITE INSPECTOR.

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EROSION AND SEDIMENTATION CONTROL PLAN

10

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SDP23-00040

EXISTING UTILITIES AND PAD TO BE DEMOLISHED

EXISTING BUILDING TO BE DEMOLISHED. SEPARATE BUILDING PERMIT THROUGH THE BUILDING DEPARTMENT IS REQUIRED.

EXISTING FENCE TO BE DEMOLISHED

EXISTING CONTAINERS TO BE REMOVED

SHADE STRUCTURES TO BE REMOVED AND SALVAGED FOR REUSE

EXISTING CURB, PARKING LOT, AND SIDEWALK TO BE DEMOLISHED

EXISTING UTILITY POLE TO BE RELOCATED

CURB/GUTTER, DRIVEWAY, AND SIDEWALK SHALL BE REMOVED TO THE NEAREST CONSTRUCTION JOINT ON EACH END. EXISTING CURB AND GUTTER SHALL NOT BE REMOVED UNTIL SUCH TIME AS REPLACEMENT IS READY TO OCCUR (I.E. REMOVAL AND REPLACEMENT SHALL OCCUR AT THE SAME TIME) WITH NO LAG TIME BETWEEN THESE STEPS. EXISTING CURB, DRIVEWAY, AND SIDEWALK TO BE DEMOLISHED TO NEAREST CONSTRUCTION OR CONTROL JOINT ON EACH END

EXISTING 48" RCP TO BE DEMOLISHED

EXISTING UTILITY POLE TO BE REMOVED BY OTHERS

REMOVE EXISTING HYDRANT AND LEAD TO EX. VALVE CAP AND THRUST BLOCK VALVE

EXISTING UTILITY POLE TO BE REMOVED BY OTHERS

OVERHEAD ELECTRIC DEMO/RELOCATION BY ONCOR

SAWCUT EDGE OF EX. ASPHALT FOR NEW CURB, GUTTER, AND DRIVEWAY

N. MAYS STREET
100' R.O.W. AS SHOWN UNDER INST.# 2001079900, O.P.R.W.C.T.

SCALE: 1"=20'

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DEMOLITION PLAN

11

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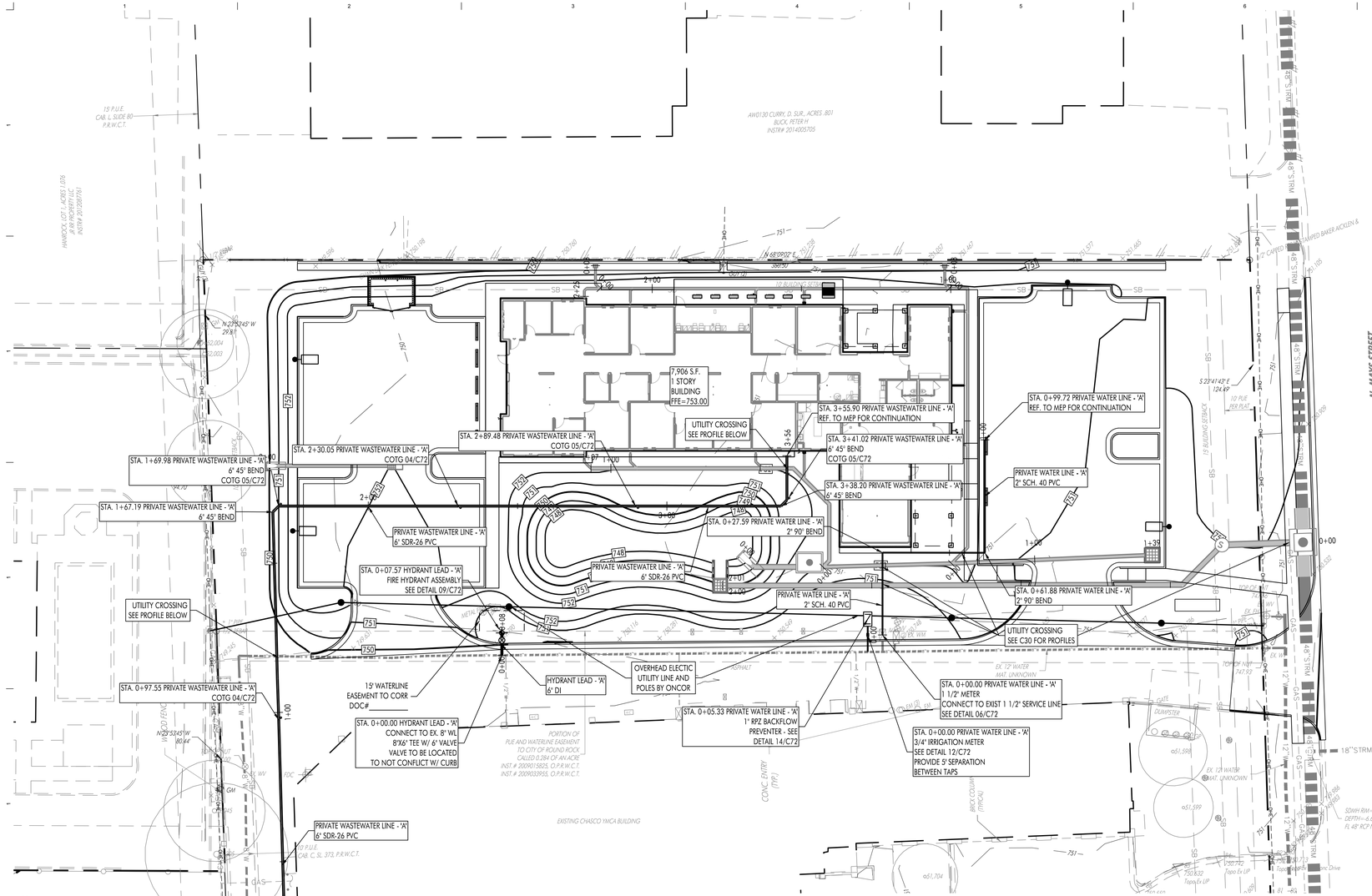

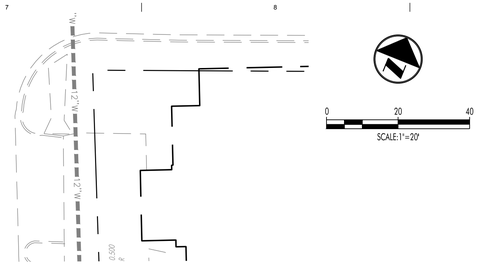

LEGEND

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- EASEMENT LINE
- EXISTING ASPHALT
- OHE — EXISTING OVERHEAD ELECTRIC LINE
- UGE — EXISTING UNDERGROUND ELECTRIC LINE
- OHT — EXISTING OVERHEAD TELEPHONE LINE
- UGT — EXISTING UNDERGROUND TELEPHONE LINE
- W — EXISTING WATER LINE (SIZE VARIES)
- WW — EXISTING WASTEWATER LINE (SIZE VARIES)
- FM — EXISTING FORCE MAIN (SIZE VARIES)
- FOC — EXISTING FIBER OPTIC LINE
- GAS — EXISTING GAS LINE (SIZE VARIES)
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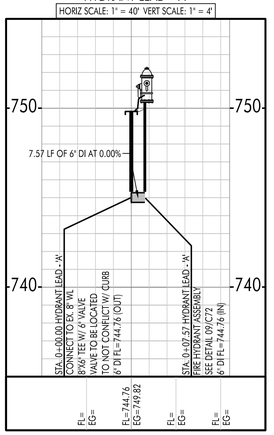
- STABILIZED CONSTRUCTION ENTRANCE
- SF — SILT FENCE
- RB — ROCK BERM
- IP — INLET PROTECTION
- TP — TREE PROTECTION
- WS — MULCH SOCK
- LOC — LIMITS OF CONSTRUCTION

NOTES:

1. CONTRACTOR TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. ALL EXISTING GROUND LEVEL APPURTENANCES ARE SUBJECT TO ELEVATION CHANGES AND SHALL BE ADJUSTED TO FINAL GRADE.
3. ALL WASTEWATER MANHOLES SHALL BE COATED AND VACUUM TESTED.
4. MANHOLES OUTSIDE OF PAVEMENT SHALL HAVE BOLTED COVERS.
5. ALL GRAVITY WASTEWATER LINES ARE TO BE CONSTRUCTED OF SDR-26.
6. ALL NON-CITY INFRASTRUCTURE INCLUDING GAS, ELECTRIC CABLE, AND TELECOMMUNICATIONS SHALL TRAVERSE UNDERNEATH CITY INFRASTRUCTURE, INCLUDING BUT NOT LIMITED TO WATERLINES, WASTEWATER LINES, AND STORM SEWERS, WITH A MINIMUM OUTSIDE-TO-OUTSIDE CLEARANCE OF 18" WHERE NON-CITY INFRASTRUCTURE WOULD HAVE TO BE PLACED AT A DEPTH OF 8' OR GREATER TO MEET THE PRECEDING REQUIREMENT, TRAVERSING ABOVE CITY INFRASTRUCTURE MAY BE ALLOWED, SUBJECT TO THE APPROVAL OF THE CITY ENGINEER, BUT ONLY IN CONFORMANCE WITH CROSS-SECTIONS, PROFILES, AND / OR OTHER DETAILED INFORMATION INCORPORATED IN THESE PLANS.
7. CONTRACTOR TO STAKEOUT WATERLINE EASEMENT PRIOR TO THE INSTALLATION OF THE WATERLINE, FOR INSTALLATION ACCURACY.
8. FOR ALL POINTS WHERE A WASTEWATER GRAVITY OR FORCE MAIN LINE CROSSES UNDER A PUBLIC WATER SUPPLY OR WATER SERVICE:
   - 8.1. VERTICAL SEPARATION MUST BE AT LEAST TWO FEET FROM OUTSIDE DIAMETERS OF PIPES;
   - 8.2. WASTEWATER PIPE WITH A MINIMUM PRESSURE RATING OF 150 PSI;
   - 8.3. ONE SEGMENT OF WATER LINE SHALL BE CENTERED ON CROSSING.
9. FOR ALL POINTS WHERE A WASTEWATER GRAVITY OR FORCE MAIN LINE CROSSES OVER A PUBLIC WATER SUPPLY OR WATER SERVICE:
   - 9.1. VERTICAL SEPARATION MUST BE AT LEAST TWO FEET FROM OUTSIDE DIAMETERS OF PIPE;
   - 9.2. WATER SHALL BE PLACED IN AN ENCASEMENT CENTERED ON THE CROSSING, SEALED AT BOTH ENDS WITH CEMENT GROUT OR MANUFACTURED SEAL, AT LEAST TWO NOMINAL SIZES LARGER, AND SUPPORTED BY SPACERS AT 5' INTERVALS;
   - 9.3. ONE SEGMENT OF WATERLINE SHALL BE CENTERED ON CROSSING.
10. FOR WASTEWATER OR FORCE MAIN LINES THAT PARALLEL PUBLIC WATER OR WATER SERVICES:
    - 10.1. SEPARATION MUST BE AT LEAST NINE FEET FROM OUTSIDE DIAMETERS OF PIPE IN ANY DIRECTION;
11. ALL WATER LINE FITTINGS SHALL BE RESTRAINED AND THRUST BLOCKED.
12. UNLESS OTHERWISE SPECIFIED, ALL WATER MAINS SHALL BE CONSTRUCTED OF C900 DR-14 PVC.
13. PROVIDE 3' CLEAR AREA AROUND FIRE HYDRANTS.
14. ALL FIRE SERVICE LEADS SHALL BE DUCTILE IRON.
15. VALVES SHALL BE AMERICAN DARLING BRAND.
16. FIRE HYDRANTS SHALL BE AMERICAN DARLING BRAND.
17. CONTRACTOR SHALL PATCH ALL PAVEMENT PER DETAIL 03,07,08/C72.
18. ALL EXISTING IRRIGATION LINE WITHIN THE PROJECT AREA ARE TO BE REMOVED.

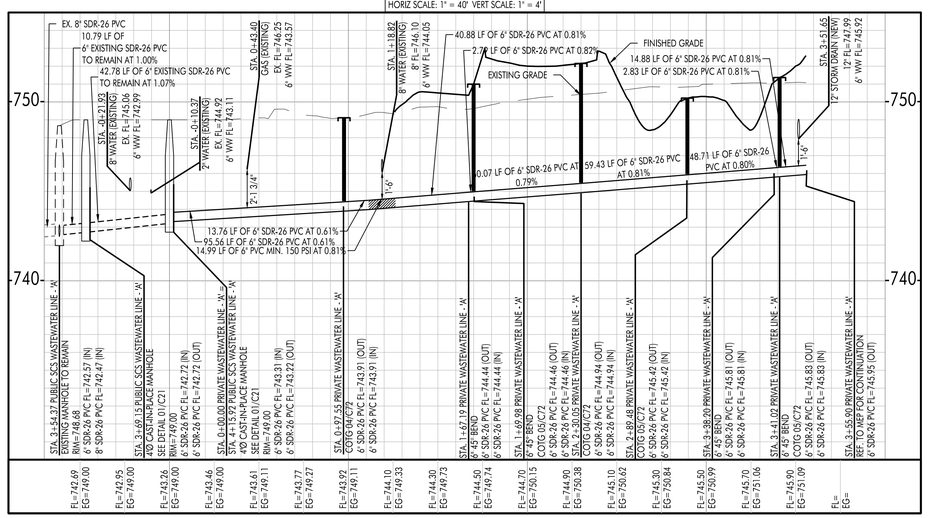
HYDRANT LEAD - 'A'

HORIZ SCALE: 1" = 40' VERT SCALE: 1" = 4'



PUBLIC / PRIVATE WASTEWATER LINE - 'A'

HORIZ SCALE: 1" = 40' VERT SCALE: 1" = 4'



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92960

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ISSUED DATE: 06/12/2024

UTILITY PLAN & PROFILE

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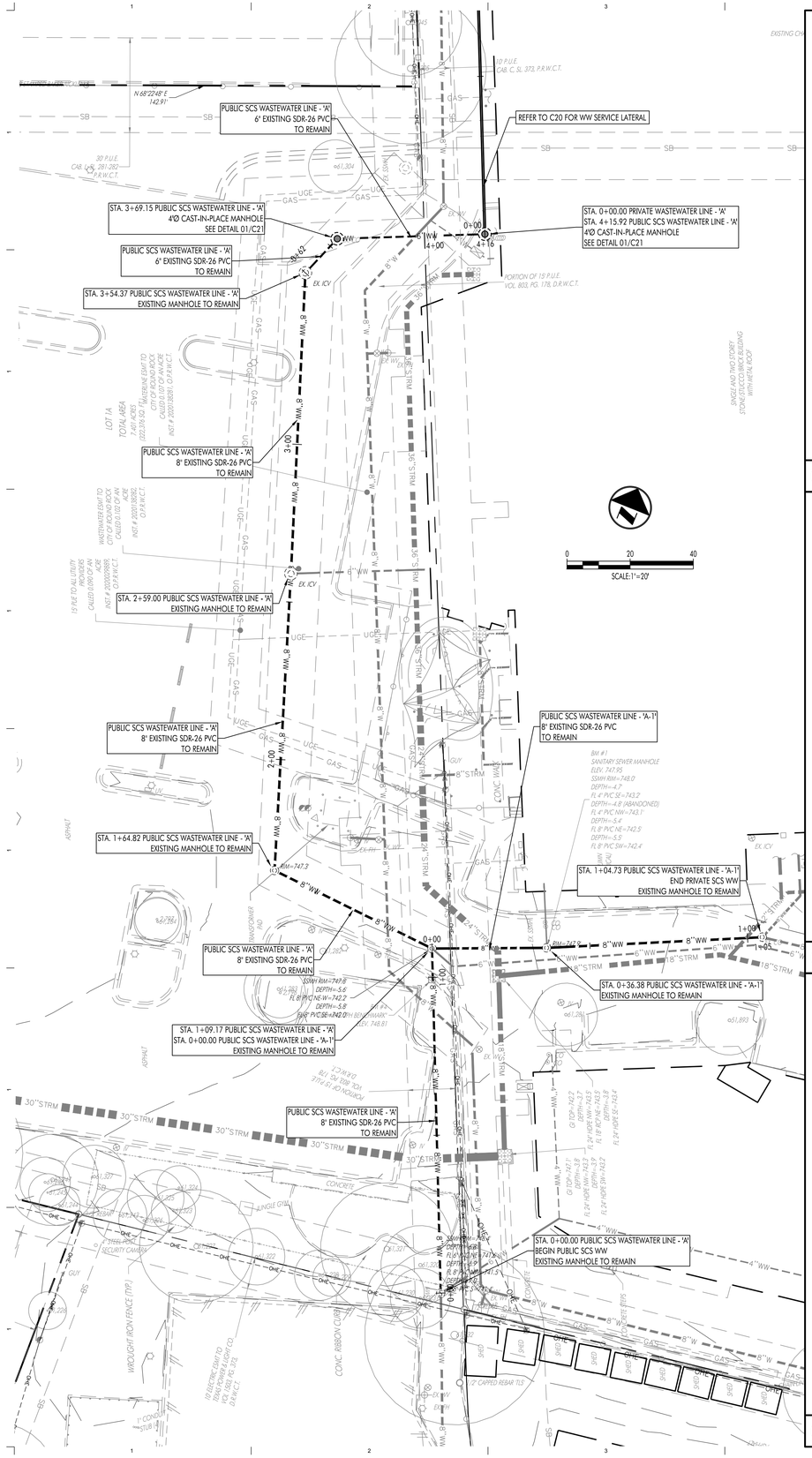
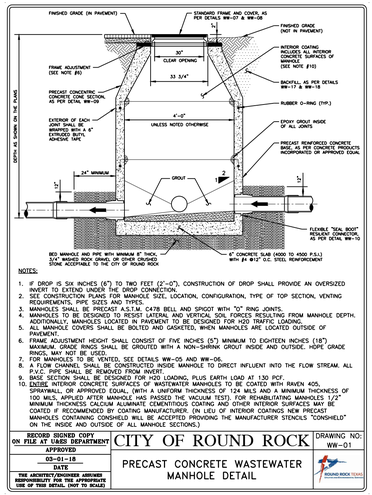
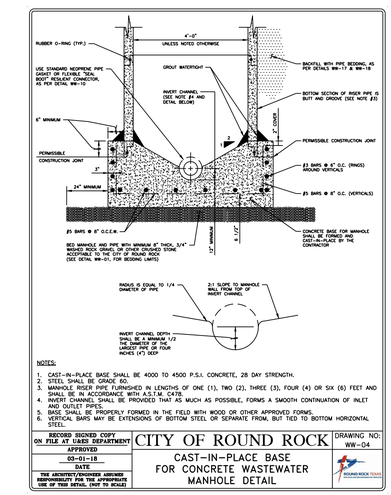
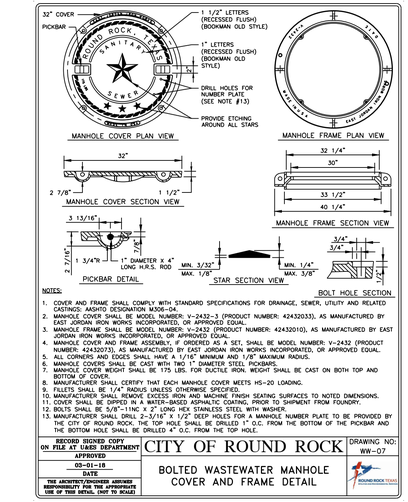




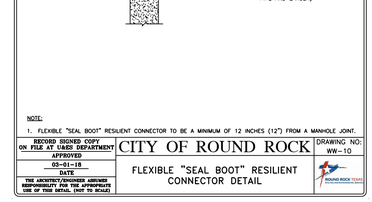
01 PRECAST WW MANHOLE — NTS



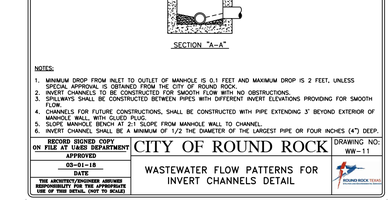
02 CAST IN PLACE BASE — NTS



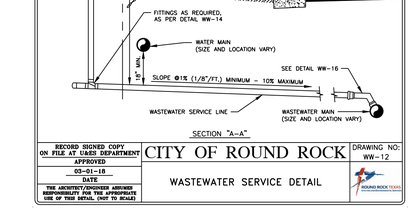
03 BOLTED MANHOLE COVER — NTS



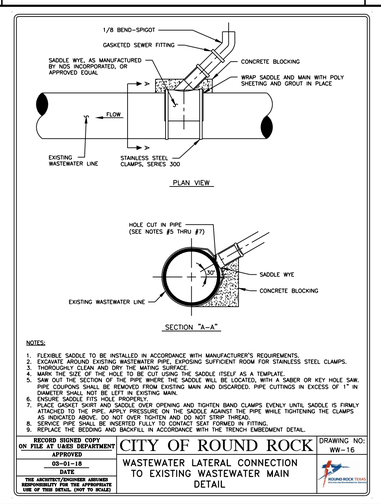
04 FLEXIBLE SEAL BOOT CONNECTOR — NTS



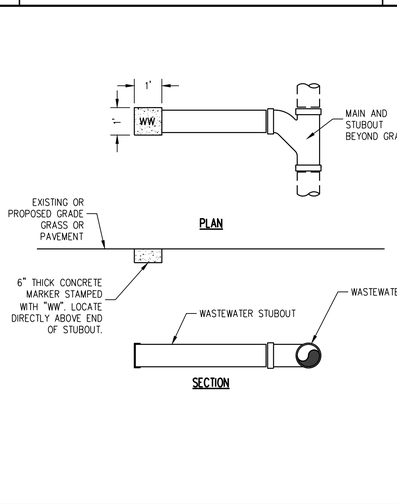
05 WASTEWATER FLOW PATTERNS — NTS



06 WASTEWATER SERVICE — NTS



07 LATERAL CONNECTION TO EX WW — NTS



08 STUBOUT — NTS

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ELECTRICAL ENGINEERS

Owner
SITE DEVELOPMENT PLANS FOR
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ROUND ROCK, TEXAS 78664

REVISIONS

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PARTIAL OVERALL UTILITY PLAN

13

C21

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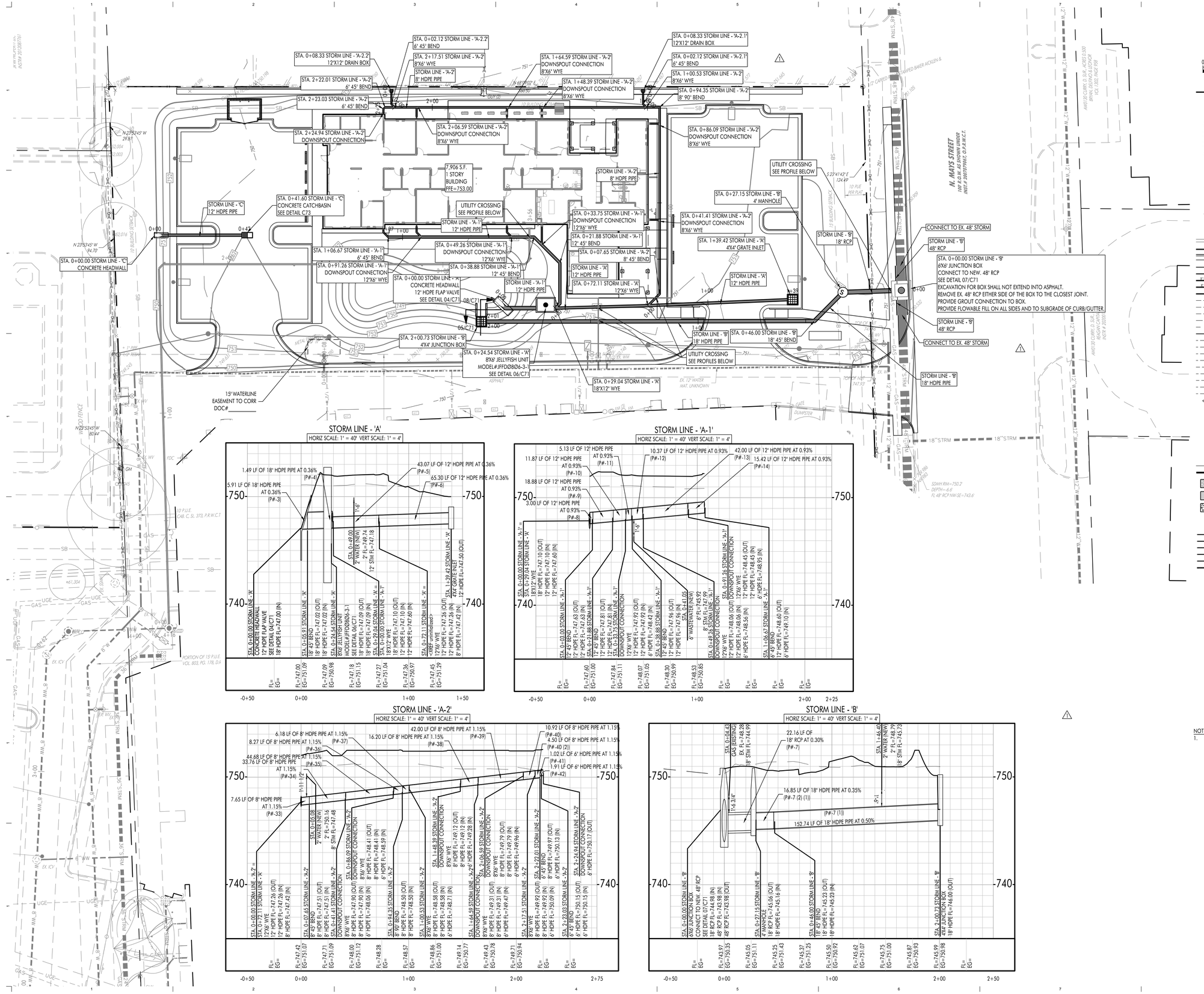

NOTES:
1. ALL STORM SEWER WYES, BENDS AND PIPE SIZE TRANSITIONS SHALL BE PREFABRICATED AND FREE FROM DEFECTS.

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DRAINAGE PLAN & PROFILE

14

C30

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LEGEND

- IRON ROD FOUND/SET
- CONCRETE MONUMENT FOUND/SET
- NAIL FOUND/SET
- PIPE FOUND
- STORMWATER MANHOLE (TO SCALE)
- JUNCTION BOX (TO SCALE)
- GRATE INLET (TO SCALE)
- WASTEWATER MANHOLE (TO SCALE)
- WASTEWATER CLEANOUT
- GAS TEST STATION
- GAS METER
- ELECTRIC METER
- LIGHT POLE
- SIGNAL LIGHT POLE
- UTILITY POLE
- TELEPHONE MANHOLE
- FIRE HYDRANT
- GATE VALVE
- IRRIGATION CONTROL VALVE
- WATER METER
- EXISTING CONTOURS
- PROPOSED CONTOUR
- PROPOSED CURB AND GUTTER
- PROPOSED ASPHALT
- PROPOSED X" DIA. GAS LINE
- PROPOSED X" DIA. STORM SEWER LINE
- PROPOSED X" DIA. WASTEWATER LINE
- PROPOSED X" DIA. WATER LINE
- EXISTING CHAIN LINK FENCE
- EXISTING WIRE FENCE
- EXISTING WOOD FENCE
- SETBACK LINE
- EASEMENT LINE
- EXISTING ASPHALT
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING OVERHEAD TELEPHONE LINE
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING WATER LINE (SIZE VARIES)
- EXISTING WASTEWATER LINE (SIZE VARIES)
- EXISTING FORCE MAIN (SIZE VARIES)
- EXISTING FIBER OPTIC LINE
- EXISTING GAS LINE (SIZE VARIES)
- BENCHMARK LOCATION
- EXISTING TREE TO REMAIN (SIZE VARIES)
- EXISTING TREE TO BE REMOVED (SIZE VARIES)
- MONARCH/HERITAGE TREE (SIZE VARIES)
- PARKING COUNT
- PARCEL LINES
- HANDICAP ACCESS LINES
- CONCRETE PAVING
- ASPHALT PAVING
- CONCRETE SIDEWALK
- CONCRETE WASHOUT
- STABILIZED CONSTRUCTION ENTRANCE
- SILT FENCE
- ROCK BERM
- INLET PROTECTION
- TREE PROTECTION
- MULCH SOCK
- LIMITS OF CONSTRUCTION

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REGISTERED PROFESSIONAL ENGINEER

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GRADING PLAN

15

C40

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NOTE:
1. ALL DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
2. ALL FIRELANES SHALL HAVE A RETURN RADIUS OF 25' MIN. (TYP.)
3. FIRE LANE SHALL NOT BE GREATER THAN 7% OR GRADE BREAKS GREATER THAN 3%.

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DIMENSION CONTROL PLAN

16

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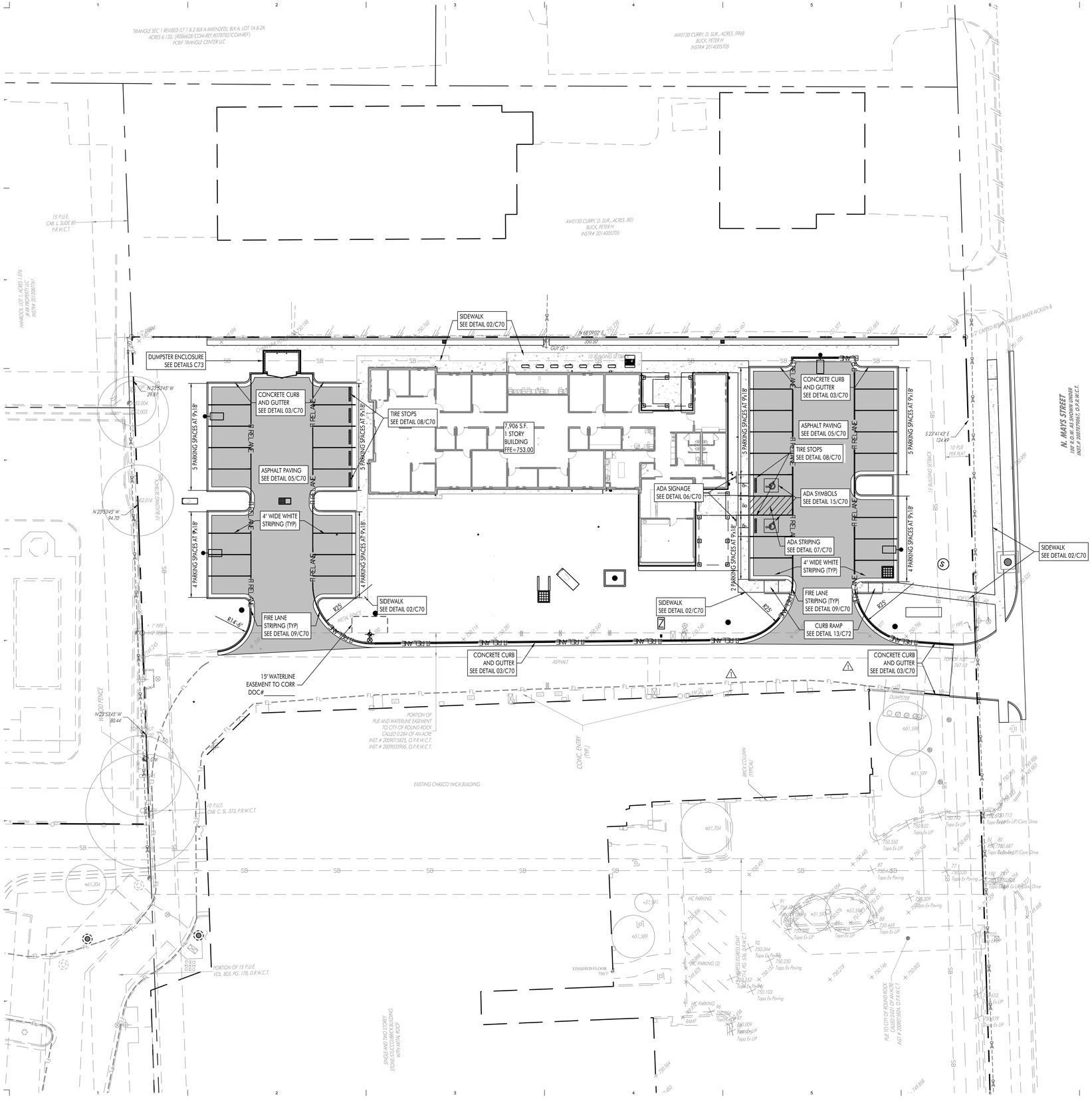

0 20 40

SCALE: 1"=20'

LEGEND

- IRON ROD FOUND/SET
- CONCRETE MONUMENT FOUND/SET
- NAIL FOUND/SET
- PIPE FOUND
- STORMWATER MANHOLE (TO SCALE)
- JUNCTION BOX (TO SCALE)
- GRATE INLET (TO SCALE)
- WASTEWATER MANHOLE (TO SCALE)
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- GAS TEST STATION
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- GATE VALVE
- IRRIGATION CONTROL VALVE
- WATER METER
- EXISTING CONTOURS
- PROPOSED CONTOUR
- PROPOSED CURB AND GUTTER
- PROPOSED ASPHALT
- X" GAS LINE — PROPOSED X" DIA. GAS LINE
- X" STORM SEWER LINE — PROPOSED X" DIA. STORM SEWER LINE
- X" WASTEWATER LINE — PROPOSED X" DIA. WASTEWATER LINE
- X" WATER LINE — PROPOSED X" DIA. WATER LINE
- EXISTING CHAIN LINK FENCE
- EXISTING WIRE FENCE
- EXISTING WOOD FENCE
- SB — SETBACK LINE
- EASEMENT LINE
- EXISTING ASPHALT
- OHE — EXISTING OVERHEAD ELECTRIC LINE
- UGE — EXISTING UNDERGROUND ELECTRIC LINE
- OHT — EXISTING OVERHEAD TELEPHONE LINE
- UGT — EXISTING UNDERGROUND TELEPHONE LINE
- W — EXISTING WATER LINE (SIZE VARIES)
- WW — EXISTING WASTEWATER LINE (SIZE VARIES)
- FM — EXISTING FORCE MAIN (SIZE VARIES)
- FOC — EXISTING FIBER OPTIC LINE
- GAS — EXISTING GAS LINE (SIZE VARIES)
- BENCHMARK LOCATION
- EXISTING TREE TO REMAIN (SIZE VARIES)
- EXISTING TREE TO BE REMOVED (SIZE VARIES)
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- CONCRETE PAVING
- ASPHALT PAVING
- CONCRETE SIDEWALK
- CONCRETE WASHOUT
- STABILIZED CONSTRUCTION ENTRANCE
- SF — SILT FENCE
- RB — ROCK BERM
- IP — INLET PROTECTION
- TP — TREE PROTECTION
- MS — MULCH SOCK
- LOC — LIMITS OF CONSTRUCTION

NOTES:

1. FIRELANE STRIPING TO BE 6" WIDE RED PAINT WITH "FIRE LANE-NO PARKING" IN 4" TALL WHITE LETTERS. WORDING MAY NOT BE SPACED MORE THAN 30 FEET APART. STRIPING TO BE PAINTED ON FACE OF CURB WHEN PRESENT AND PAINTED FLAT ON PARKING SURFACE WHEN IT IS NOT.
2. ALL DIMENSIONS ARE TO THE FACE OF CURB, OR CENTER OF STRIPING (WHERE APPLICABLE), UNLESS OTHERWISE NOTED.
3. ALL WEATHER ACCESS ROADS MADE OF (CONCRETE OR ASPHALT) SHALL BE IN PLACE BEFORE BRINGING COMBUSTIBLE MATERIALS ON THE JOBSITE. FIRE ACCESS ROAD MUST SUPPORT 80,000 lbs. SITE HYDRANTS SHALL ALSO BE IN-SERVICE.
4. THE GRADE THROUGH THE FIRE LANE ACCESS SHALL NOT BE GREATER THAN > 7% PERCENT, AND THE GRADE BREAKS NOT GREATER > 3% PERCENT. 2015 IFC INTERNATIONAL FIRE CODE SEC 503.2.7 & 503.2.8 DETERMINED BY THE FIRE CODE OFFICIAL OR AHJ.
5. TURNING RADII SHALL BE A MINIMUM OF 25' FEET INSIDE & 50' FEET OUTSIDE. 2015 IFC INTERNATIONAL FIRE CODE SEC 503.2.4 AND APPENDIX D SEC 103.3 DETERMINED BY THE FIRE CODE OFFICIAL OR AHJ.

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PAVING AND STRIPING PLAN

17

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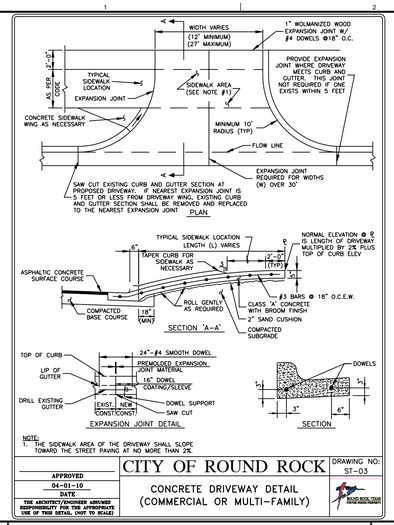
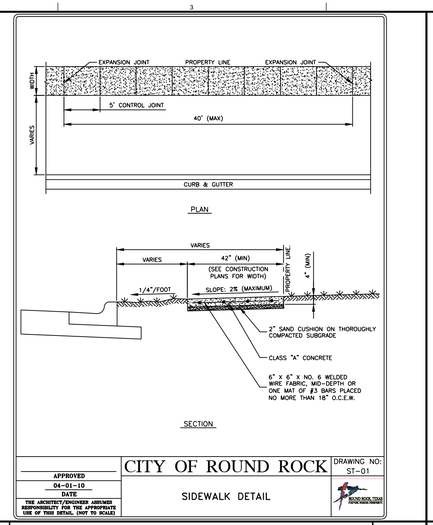


NOTE:
1. THE SIDEWALK AREA OF THE DRIVEWAY SHALL SLOPE TOWARD THE STREET PAVING AT NO MORE THAN 2%.

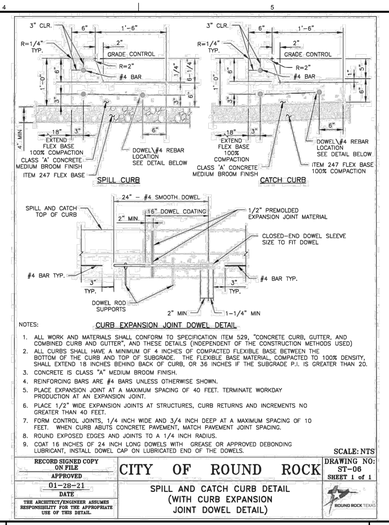
CITY OF ROUND ROCK	DRAWING NO: ST-03
APPROVED 04-01-10 DATE — THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)	CONCRETE DRIVEWAY DETAIL (COMMERCIAL OR MULTI-FAMILY)

01 CONCRETE DRIVEWAY — NTS



CITY OF ROUND ROCK	DRAWING NO: ST-01
APPROVED 04-01-10 DATE — THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)	SIDEWALK DETAIL

02 SIDEWALK — NTS

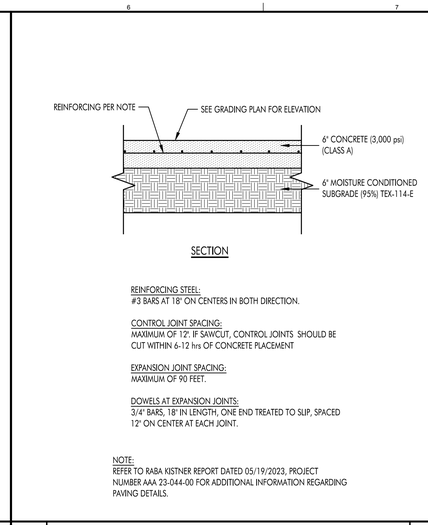


NOTES:
1. ALL WORK AND MATERIALS SHALL CONFORM TO SPECIFICATION ITEM 529, "CONCRETE CURB, GUTTER, AND COMBINED CURB AND GUTTER", AND THESE DETAILS (INDEPENDENT OF THE CONSTRUCTION METHODS USED)
2. ALL CURBS SHALL HAVE A MINIMUM OF 4 INCHES OF COMPACTED FLEXIBLE BASE BETWEEN THE BOTTOM OF THE CURB AND TOP OF SUBGRADE. THE FLEXIBLE BASE MATERIAL, COMPACTED TO 100% DENSITY, SHALL EXTEND 18 INCHES BEHIND BACK OF CURB, OR 36 INCHES IF THE SUBGRADE P.I. IS GREATER THAN 20.
3. CONCRETE IS CLASS "A" MEDIUM BROOM FINISH.
4. REINFORCING BARS ARE #4 BARS UNLESS OTHERWISE SHOWN.
5. PLACE EXPANSION JOINT AT A MAXIMUM SPACING OF 40 FEET. TERMINATE WORKDAY PRODUCTION AT AN EXPANSION JOINT.
6. PLACE 1/2" WIDE EXPANSION JOINTS AT STRUCTURES, CURB RETURNS AND INCREMENTS NO GREATER THAN 40 FEET.
7. FORM CONTROL JOINTS, 1/4 INCH WIDE AND 3/4 INCH DEEP AT A MAXIMUM SPACING OF 10 FEET. WHEN CURB ABUTS CONCRETE PAVEMENT, MATCH PAVEMENT JOINT SPACING.
8. ROUND EXPOSED EDGES AND JOINTS TO A 1/4 INCH RADIUS.
9. COAT 18 INCHES OF 24 INCH LONG DOWELS WITH GREASE OR APPROVED DEBONDING LUBRICANT, INSTALL DOWEL CAP ON LUBRICATED END OF THE DOWELS.

SCALE: NTS

RECORD SIGNED COPY ON FILE	CITY OF ROUND ROCK	DRAWING NO: ST-06
APPROVED 01-28-21 DATE — THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.	SPILL AND CATCH CURB DETAIL (WITH CURB EXPANSION JOINT DOWEL DETAIL)	SHEET 1 of 1

03 SPILL AND CATCH CURB — NTS



REINFORCING STEEL:
#3 BARS AT 18' ON CENTERS IN BOTH DIRECTION.

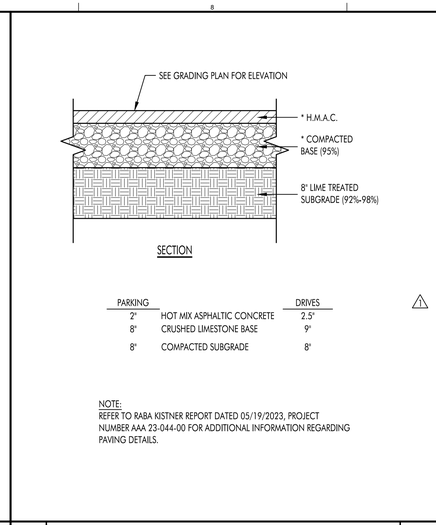
CONTROL JOINT SPACING:
MAXIMUM OF 12'. IF SAWCUT, CONTROL JOINTS SHOULD BE CUT WITHIN 6-12 hrs OF CONCRETE PLACEMENT

EXPANSION JOINT SPACING:
MAXIMUM OF 90 FEET.

DOWELS AT EXPANSION JOINTS:
3/4" BARS, 18" IN LENGTH, ONE END TREATED TO SLIP, SPACED 12" ON CENTER AT EACH JOINT.

NOTE:
REFER TO RABA KISTNER REPORT DATED 05/19/2023, PROJECT NUMBER AAA 23-044-00 FOR ADDITIONAL INFORMATION REGARDING PAVING DETAILS.

04 CONCRETE PAVING SECTION — NTS



PARKING		DRIVES
2"	HOT MIX ASPHALTIC CONCRETE	2.5"
8"	CRUSHED LIMESTONE BASE	9"
8"	COMPACTED SUBGRADE	8"

NOTE:
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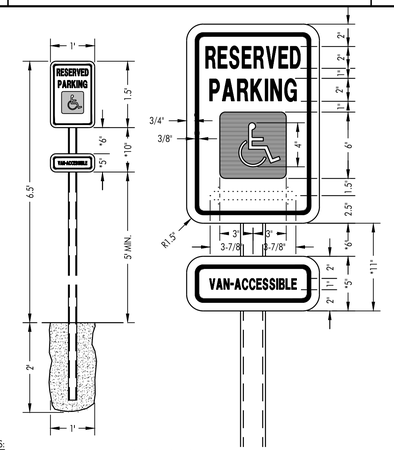
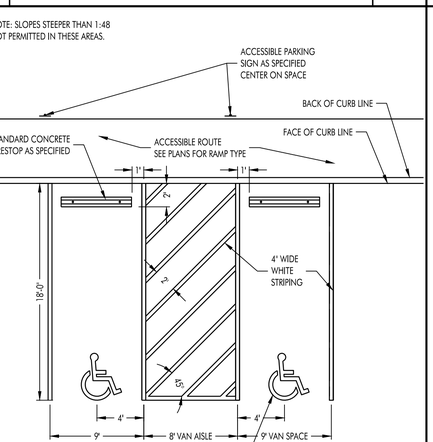
05 ASPHALT PAVING SECTION — NTS

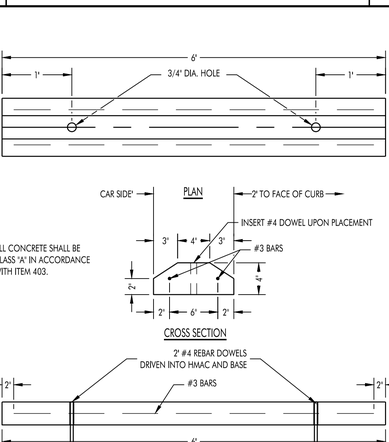


NOTES:
1. SIGN COLORS TO BE: LEGEND & BORDER - GREEN BACKGROUND - WHITE SYMBOL - WHITE ON BLUE BACKGROUND
2. SINGLE &/OR DOUBLE HEADED ARROWS MAY BE USED ON SIGNS TO MARK MULTIPLE RESERVED PARKING SPACES. OMIT ARROW AT SINGLE SPACES.
*3. HANDICAP VAN ACCESSIBLE SIGN TO BE USED ON VAN ACCESSIBLE PARKING SPOTS ONLY, SEE PLANS FOR LOCATIONS.

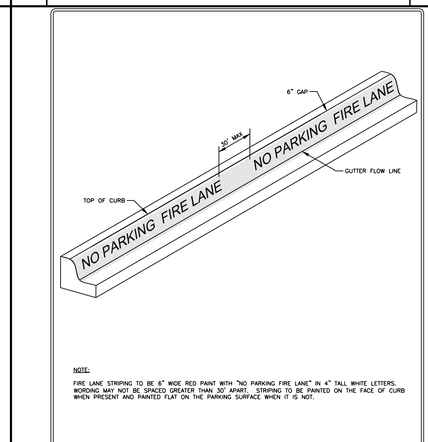
06 HANDICAP PARKING SIGN — NTS



07 ADA PARKING STRIPING — NTS



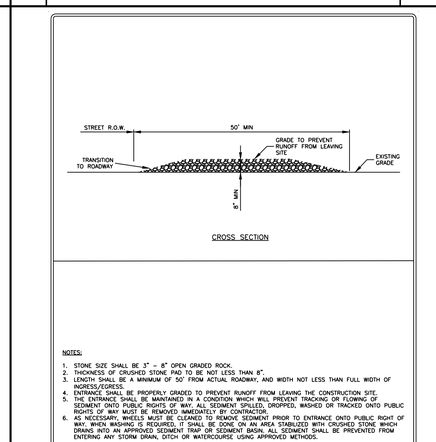
08 TIRE STOP — NTS



NOTE:
FIRE LANE STRIPING TO BE 6" WIDE RED PAINT WITH "NO PARKING FIRE LANE" IN 4" TALL WHITE LETTERS. WORDING MAY NOT BE SPACED GREATER THAN 30' APART. STRIPING TO BE PAINTED ON THE FACE OF CURB WHEN PRESENT AND PAINTED FLAT ON THE PARKING SURFACE WHEN IT IS NOT.

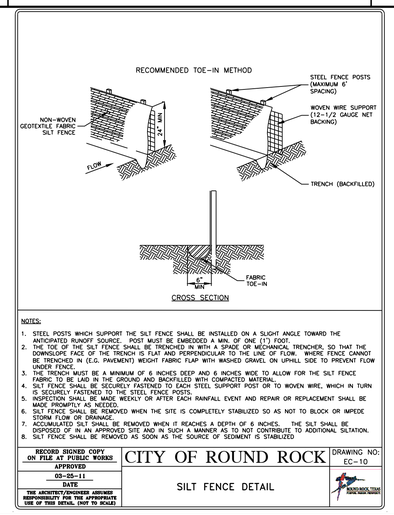
APPROVED 04-01-10 DATE — THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)	CITY OF ROUND ROCK	DRAWING NO: ST-13
	FIRE LANE MARKING DETAIL	

09 FIRE LANE MARKING — NTS



RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: EC-09
APPROVED 03-25-11 DATE — THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)	STABILIZED CONSTRUCTION ENTRANCE DETAIL	

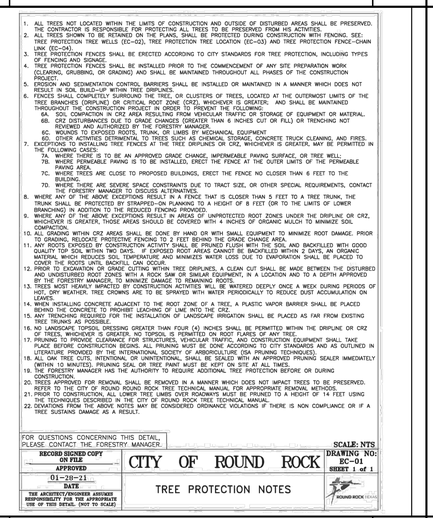
10 STABILIZED CONSTRUCTION ENTRANCE — NTS



NOTES:
1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MIN. OF ONE (1') FOOT.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G. PAVEMENT) WEIGHT FABRIC FLAP WITH WASHED GRAVEL ON UPHILL SIDE TO PREVENT FLOW UNDERNEATH.
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHALL BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS SECURELY FASTENED TO THE STEEL FENCE POSTS.
5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES. THE SILT SHALL BE DISPOSED OF IN AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.
8. SILT FENCE SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO: EC-10
APPROVED 03-25-11 DATE — THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)	SILT FENCE DETAIL	

11 SILT FENCE — NTS



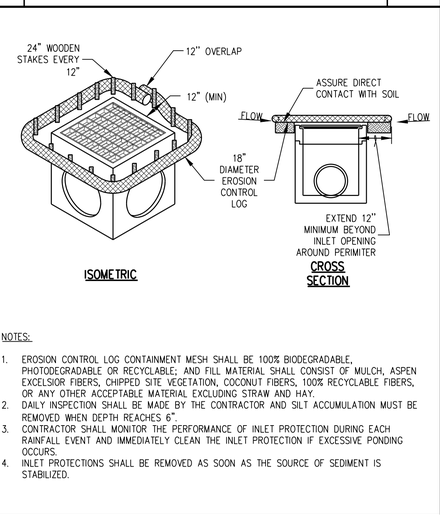
1. ALL TREES NOT LOCATED WITHIN THE LIMITS OF CONSTRUCTION AND OUTSIDE OF DISTURBED AREAS SHALL BE PRESERVED. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL TREES TO BE PRESERVED FROM HIS ACTIVITIES.
2. ALL TREES SHOWN TO BE RETAINED ON THE PLANS, SHALL BE PROTECTED DURING CONSTRUCTION WITH FENCING, SEE: TREE PROTECTION TREE WELLS (EC-02), TREE PROTECTION TREE LOCATION (EC-03) AND TREE PROTECTION FENCE-CHAIN LINK (EC-04).
3. TREE PROTECTION FENCES SHALL BE ERECTED ACCORDING TO CITY STANDARDS FOR TREE PROTECTION, INCLUDING TYPES OF FENCING AND SIGNAGE.
4. TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING, OR GRADING) AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE CONSTRUCTION PROJECT.
5. EROSION AND SEDIMENTATION CONTROL BARRIERS SHALL BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILD-UP WITHIN TREE DRIPLINES.
6. FENCES SHALL COMPLETELY SURROUND THE TREE, OR CLUSTERS OF TREES, LOCATED AT THE OUTERMOST LIMITS OF THE TREE BRANCHES (DRIPLINE) OR CRITICAL ROOT ZONE (CRZ), WHICHEVER IS GREATER, AND SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE CONSTRUCTION PROJECT, UNLESS OTHERWISE APPROVED:
   6A. SOIL COMPACTION IN CRZ AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIAL.
   6B. CRZ DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN 6 INCHES CUT OR FILL) OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE FORESTRY MANAGER.
   6C. WOUNDS TO EXPOSED ROOTS, TRUNK, OR LIMBS BY MECHANICAL EQUIPMENT.
   6D. OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CONCRETE TRUCK CLEANING, AND FIRES.
7. EXCEPTIONS TO INSTALLING TREE FENCES AT THE TREE DRIPLINES OR CRZ, WHICHEVER IS GREATER, MAY BE PERMITTED IN THE FOLLOWING CASES:
   7A. WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, OR TREE WELL;
   7B. WHERE PERMEABLE PAVING IS TO BE INSTALLED, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA;
   7C. WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE NO CLOSER THAN 6 FEET TO THE BUILDING;
   7D. WHERE THERE ARE SEVERE SPACE CONSTRAINTS DUE TO TRACT SIZE, OR OTHER SPECIAL REQUIREMENTS, CONTACT THE FORESTRY MANAGER TO DISCUSS ALTERNATIVES.
8. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE THAT IS CLOSER THAN 5 FEET TO A TREE TRUNK, THE TRUNK SHALL BE PROTECTED BY STRAPPED-ON PLANKING TO A HEIGHT OF 8 FEET (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING PROVIDED.
9. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN AREAS OF UNPROTECTED ROOT ZONES UNDER THE DRIPLINE OR CRZ, WHICHEVER IS GREATER, THOSE AREAS SHOULD BE COVERED WITH 4 INCHES OF ORGANIC MULCH TO MINIMIZE SOIL COMPACTION.
10. ALL GRADING WITHIN CRZ AREAS SHALL BE DONE BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE. PRIOR TO GRADING, RELOCATE PROTECTIVE FENCING TO 2 FEET BEHIND THE GRADE CHANGE AREA.
11. ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL AND BACKFILLED WITH GOOD QUALITY TOP SOIL WITHIN TWO DAYS. IF EXPOSED ROOT AREAS CANNOT BE BACKFILLED WITHIN 2 DAYS, AN ORGANIC MATERIAL WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION SHALL BE PLACED TO COVER THE ROOTS UNTIL BACKFILL CAN OCCUR.
12. ROOTS EXPOSED BY CONSTRUCTION WITHIN TREE DRIPLINES, A CLEAN CUT SHALL BE MADE BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH A ROCK SAW OR SIMILAR EQUIPMENT, IN A LOCATION AND TO A DEPTH APPROVED BY THE FORESTRY MANAGER, TO MINIMIZE DAMAGE TO REMAINING ROOTS.
13. TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES WILL BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TREE CROWNS ARE TO BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON LEAVES.
14. WHITE INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, A PLASTIC VAPOR BARRIER SHALL BE PLACED BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE CRZ.
15. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
16. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN FOUR (4) INCHES SHALL BE PERMITTED WITHIN THE DRIPLINE OR CRZ OF TREES, WHICHEVER IS GREATER. NO TOPSOIL IS PERMITTED ON ROOT FLARES OF ANY TREE.
17. PRUNE TREES AS NECESSARY TO REMOVE DEAD BRANCHES OR TO PROVIDE CLEARANCE FOR EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS. ALL PRUNING MUST BE DONE ACCORDING TO CITY STANDARDS AND AS OUTLINED IN LITERATURE PROVIDED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA PRUNING TECHNIQUES).
18. ALL OAK TREE CUTS, INTENTIONAL OR UNINTENTIONAL, SHALL BE SEALED WITH AN APPROVED PRUNING SEALER IMMEDIATELY (WITHIN 10 MINUTES). PRUNING SEAL OR TREE PAINT MUST BE KEPT ON SITE AT ALL TIMES.
19. THE FORESTRY MANAGER HAS THE AUTHORITY TO REQUIRE ADDITIONAL TREE PROTECTION BEFORE OR DURING CONSTRUCTION.
20. TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED. REFER TO CURRENT CITY OF ROUND ROUND ROCK TREE TECHNICAL MANUAL FOR APPROPRIATE REMOVAL METHODS.
21. PRIOR TO CONSTRUCTION, ALL LOWER TREE LIMBS OVER ROADWAYS MUST BE PRUNED TO A HEIGHT OF 14 FEET USING THE TECHNIQUES DESCRIBED IN THE CITY OF ROUND ROCK TREE TECHNICAL MANUAL.
22. DEVIATIONS FROM THE ABOVE NOTES MAY BE CONSIDERED ORDINANCE VIOLATIONS IF THERE IS NON COMPLIANCE OR IF A TREE SUSTAINS DAMAGE AS A RESULT.

FOR QUESTIONS CONCERNING THIS DETAIL, PLEASE CONTACT THE FORESTRY MANAGER.

SCALE: NTS

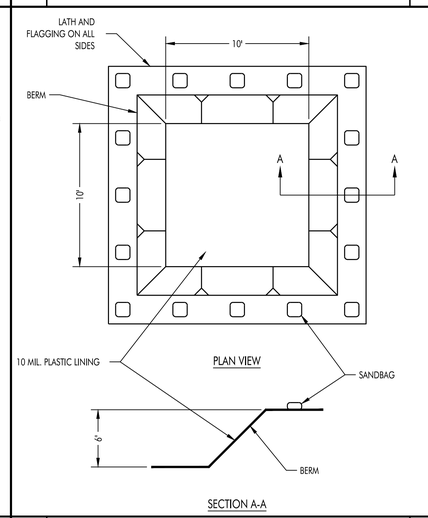
RECORD SIGNED COPY ON FILE	CITY OF ROUND ROCK	DRAWING NO: EC-01
APPROVED 01-28-21 DATE — THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)	TREE PROTECTION NOTES	SHEET 1 of 1

12 TREE PROTECTION — NTS

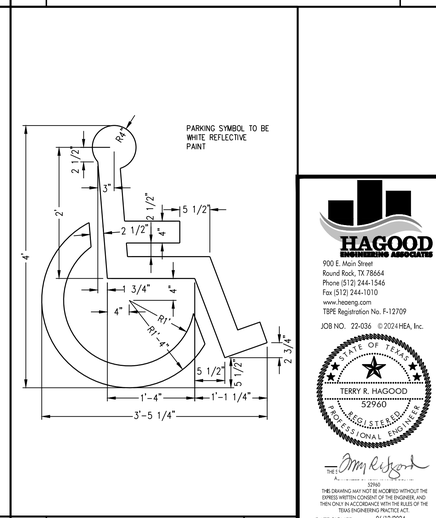


NOTES:
1. EROSION CONTROL LOG CONTAINMENT MESH SHALL BE 100% BIODEGRADABLE, PHOTODEGRADABLE OR RECYCLABLE; AND FILL MATERIAL SHALL CONSIST OF MULCH, ASPEN EXCELSIOR FIBERS, CHIPPED SITE VEGETATION, COCONUT FIBERS, 100% RECYCLABLE FIBERS, OR ANY OTHER ACCEPTABLE MATERIAL EXCLUDING STRAW AND HAY.
2. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 6".
3. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY CLEAN THE INLET PROTECTION IF EXCESSIVE PONDING OCCURS.
4. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

13 GRATE INLET PROTECTION DETAIL — NTS



14 CONCRETE WASHOUT DETAIL — NTS



15 ADA PARKING SYMBOL — NTS

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TBPE Registration No. F-12709

JOB NO. 22-036

STATE OF TEXAS — TERRY R. HAGOOD — 52960 — REGISTERED PROFESSIONAL ENGINEER

52960

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DATE SIGNED: 06/12/2024
ISSUED FOR: AGENCY REVIEW

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Schaefer Architecture
257 N. Broadway
Wichita, KS, 67202
316.684.0171

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PROGRESS DRAWINGS NOT FOR CONSTRUCTION

Owner
SITE DEVELOPMENT PLANS FOR
YMCA - METRO OFFICES
1826 N. MAYS STREET
ROUND ROCK, TEXAS 78664

REVISIONS
1 04.24.2024 ADD #1

HEA PROJECT NO.

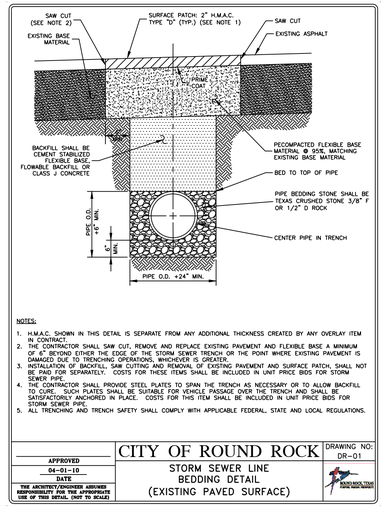
HEA PROJECT NO.22-036
ISSUED DATE: 06/12/2024

CONSTRUCTION & ESC DETAILS

18

C70

SDP23-00040



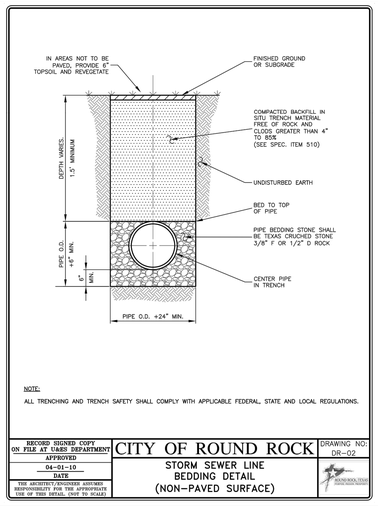
NOTES:

1. H.M.A.C. SHOWN IN THIS DETAIL IS SEPARATE FROM ANY ADDITIONAL THICKNESS CREATED BY ANY OVERLAY ITEM IN CONTRACT.
2. THE CONTRACTOR SHALL SAW CUT, REMOVE AND REPLACE EXISTING PAVEMENT AND FLEXIBLE BASE A MINIMUM OF 6" BEYOND EITHER THE EDGE OF THE STORM SEWER TRENCH OR THE POINT WHERE EXISTING PAVEMENT IS DAMAGED DUE TO TRENCHING OPERATIONS, WHICHEVER IS GREATER.
3. INSTALLATION OF BACKFILL, SAW CUTTING AND REMOVAL OF EXISTING PAVEMENT AND SURFACE PATCH, SHALL NOT BE PAID FOR SEPARATELY. COSTS FOR THESE ITEMS SHALL BE INCLUDED IN UNIT PRICE BIDS FOR STORM SEWER PIPE.
4. THE CONTRACTOR SHALL PROVIDE STEEL PLATES TO SPAN THE TRENCH AS NECESSARY OR TO ALLOW BACKFILL TO CURE. SUCH PLATES SHALL BE SUITABLE FOR VEHICLE PASSAGE OVER THE TRENCH AND SHALL BE SATISFACTORILY ANCHORED IN PLACE. COSTS FOR THIS ITEM SHALL BE INCLUDED IN UNIT PRICE BIDS FOR STORM SEWER PIPE.
5. ALL TRENCHING AND TRENCH SAFETY SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

	CITY OF ROUND ROCK	DRAWING NO: DR-01
APPROVED 04-01-10 DATE	STORM SEWER LINE BEDDING DETAIL (EXISTING PAVED SURFACE)	ROUND ROCK, TEXAS

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)

01 STORM BEDDING PAVED — NTS



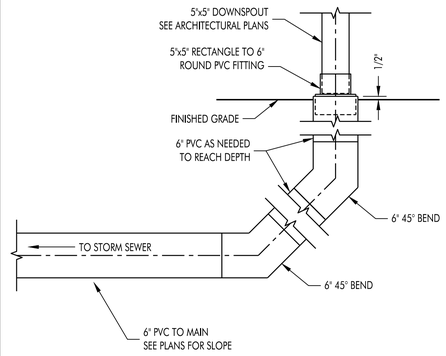
NOTE:

ALL TRENCHING AND TRENCH SAFETY SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

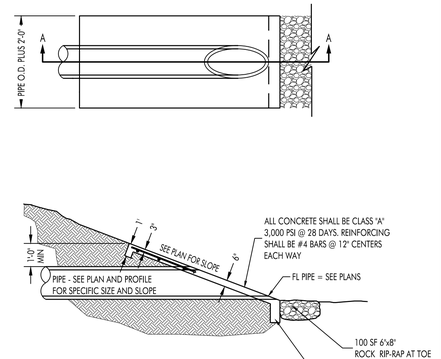
RECORD SIGNED COPY ON FILE AT UARS DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO: DR-02
APPROVED 04-01-10 DATE	STORM SEWER LINE BEDDING DETAIL (NON-PAVED SURFACE)	ROUND ROCK, TEXAS

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)

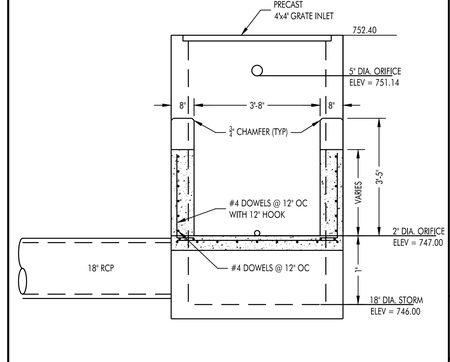
02 STORM BEDDING UNPAVED — NTS



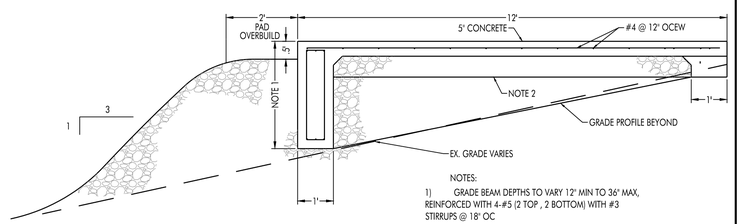
03 DOWNSPOUT CONNECTION — NTS



04 SLOPED HEADWALL — NTS



05 DETENTION POND OUTLET STRUCTURE — SCALE:1"=1'

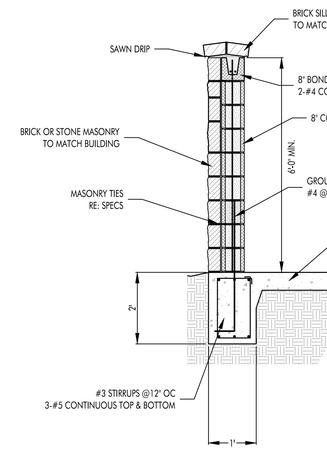


NOTES:

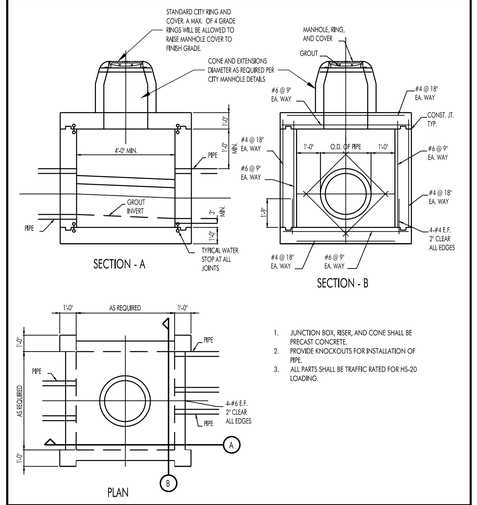
1) GRADE BEAM DEPTHS TO VARY 12" MIN TO 36" MAX, REINFORCED WITH 4-#5 (2 TOP , 2 BOTTOM) WITH #3 STIRRUPS @ 18" OC

2) THICKENED SLAB 12" WIDE x 12" DEEP REINFORCED WITH 2-#5 (BOTTOM) REFER TO PLAN.

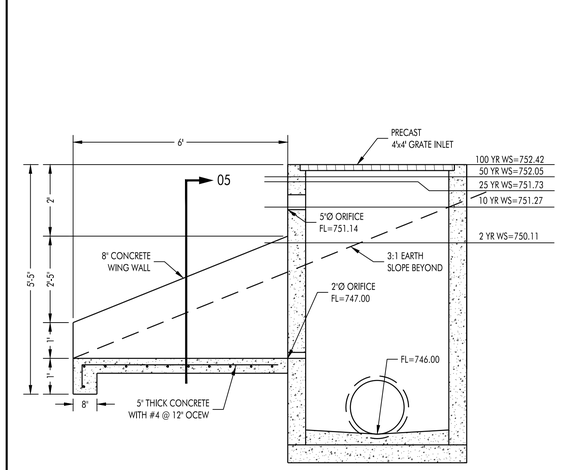
06A DUMPSTER ENCLOSURE — NTS



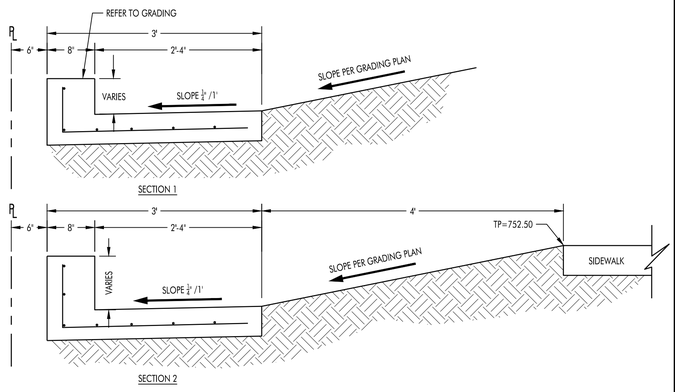
06B DUMPSTER PROFILE — NTS



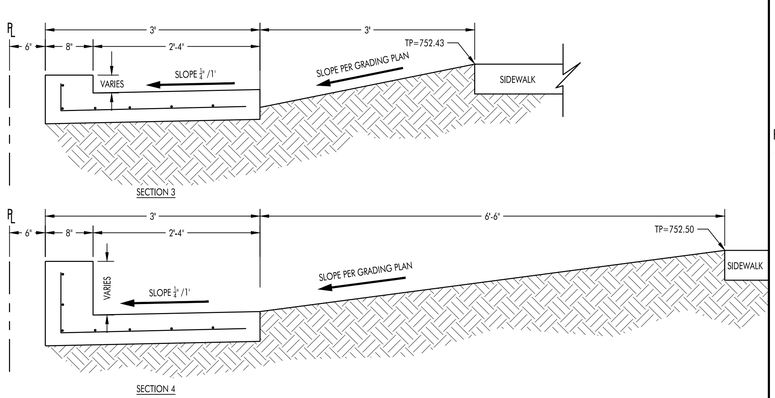
07 JUNCTION BOX — NTS



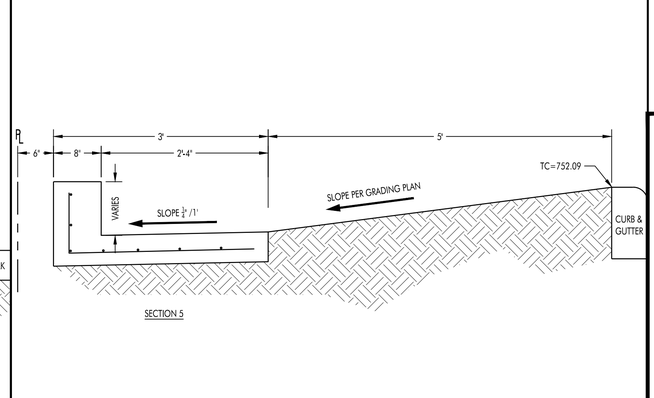
08 DETENTION POND OUTLET STRUCTURE SECTION — SCALE:1"=1'



09 CHANNEL SECTION — SCALE:1"=1'



10 CHANNEL SECTION — SCALE:1"=1'



10 CHANNEL SECTION — SCALE:1"=1'

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STATE OF TEXAS
TERRY R. HAGOOD
52960
REGISTERED PROFESSIONAL ENGINEER
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DATE SIGNED: 06/12/2024
ISSUED FOR: AGENCY REVIEW

PROGRESS DRAWINGS NOT FOR CONSTRUCTION

Owner
SITE DEVELOPMENT PLANS FOR
YMCA - METRO OFFICES
1826 N. MAYS STREET
ROUND ROCK, TEXAS 78664

REVISIONS
⚠ 04.24.2024 ADD #1

HEA PROJECT NO.

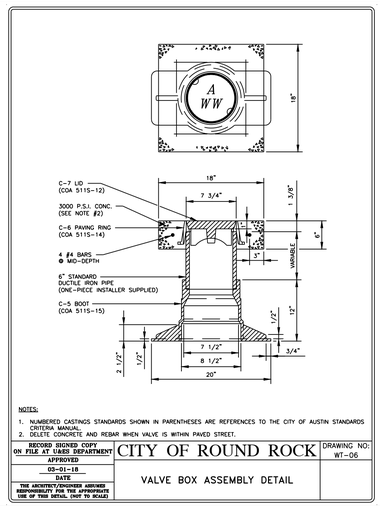
HEA PROJECT NO.22-036
ISSUED DATE: 06/12/2024

STORM DETAILS

19

C71

SDP23-00040

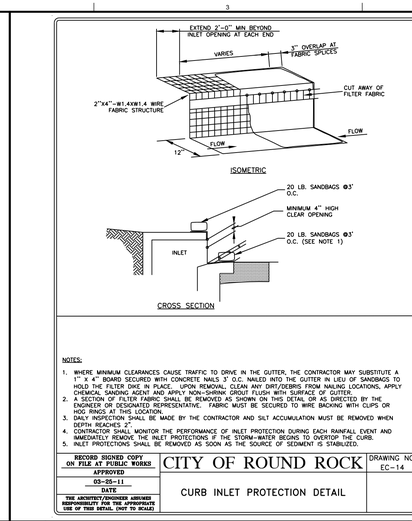


NOTES:

1. NUMBERED CASTINGS STANDARDS SHOWN IN PARENTHESES ARE REFERENCES TO THE CITY OF AUSTIN STANDARDS CRITERIA MANUAL.
2. DELETE CONCRETE AND REBAR WHEN VALVE IS WITHIN PAVED STREET.

RECORD SIGNED COPY ON FILE AT U&ED DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO:
APPROVED 03-01-18 DATE	VALVE BOX ASSEMBLY DETAIL	WT-06
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

01 VALVE BOX ASSEMBLY — NTS

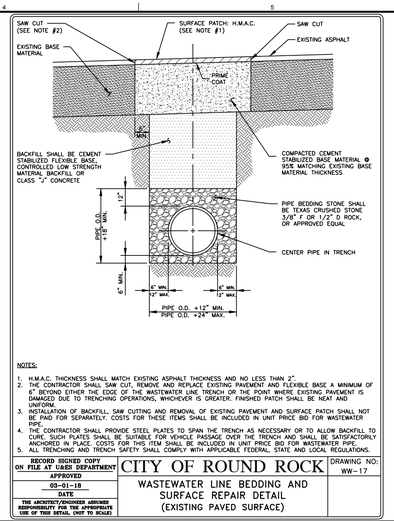


NOTES:

1. WHERE MINIMUM CLEARANCES CAUSE TRAFFIC TO DRIVE IN THE GUTTER, THE CONTRACTOR MAY SUBSTITUTE A 1" X 4" BOARD SECURED WITH CONCRETE NAILS 3' O.C. NAILED INTO THE GUTTER IN LIEU OF SANDBAGS TO HOLD THE FILTER DIKE IN PLACE. UPON REMOVAL, CLEAN ANY DIRT/DEBRIS FROM NAILING LOCATIONS. APPLY CHEMICAL SANDING AGENT AND APPLY NON-SHRINK GROUT FLUSH WITH SURFACE OF GUTTER.
2. A SECTION OF FILTER FABRIC SHALL BE REMOVED AS SHOWN ON THIS DETAIL OR AS DIRECTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR HOG RINGS AT THIS LOCATION.
3. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2".
4. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY REMOVE THE INLET PROTECTIONS IF THE STORM-WATER BEGINS TO OVERTOP THE CURB.
5. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF ROUND ROCK	DRAWING NO:
APPROVED 03-05-11 DATE	CURB INLET PROTECTION DETAIL	EC-14
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

02 CURB INLET PROTECTION — NTS

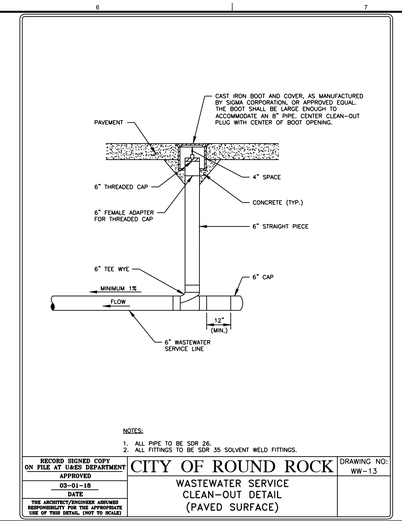


NOTES:

1. H.M.A.C. THICKNESS SHALL MATCH EXISTING ASPHALT THICKNESS AND NO LESS THAN 2".
2. THE CONTRACTOR SHALL SAW CUT, REMOVE AND REPLACE EXISTING PAVEMENT AND FLEXIBLE BASE A MINIMUM OF 6" BEYOND EITHER THE EDGE OF THE WASTEWATER LINE TRENCH OR THE POINT WHERE EXISTING PAVEMENT IS DAMAGED DUE TO TRENCHING OPERATIONS, WHICHEVER IS GREATER. FINISHED PATCH SHALL BE NEAT AND UNIFORM.
3. INSTALLATION OF BACKFILL, SAW CUTTING AND REMOVAL OF EXISTING PAVEMENT AND SURFACE PATCH SHALL NOT BE PAID FOR SEPARATELY. COSTS FOR THESE ITEMS SHALL BE INCLUDED IN UNIT PRICE BID FOR WATERLINE PIPE.
4. THE CONTRACTOR SHALL PROVIDE STEEL PLATES TO SPAN THE TRENCH AS NECESSARY OR TO ALLOW BACKFILL TO CURE. SUCH PLATES SHALL BE SUITABLE FOR VEHICLE PASSAGE OVER THE TRENCH AND SHALL BE SATISFACTORILY ANCHORED IN PLACE. COSTS FOR THIS ITEM SHALL BE INCLUDED IN UNIT PRICE BID FOR WASTEWATER PIPE.
5. ALL TRENCHING AND TRENCH SAFETY SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

RECORD SIGNED COPY ON FILE AT U&ED DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO:
APPROVED 03-01-18 DATE	WASTEWATER LINE BEDDING AND SURFACE REPAIR DETAIL (EXISTING PAVED SURFACE)	WW-17
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

03 WASTEWATER LINE BEDDING — NTS

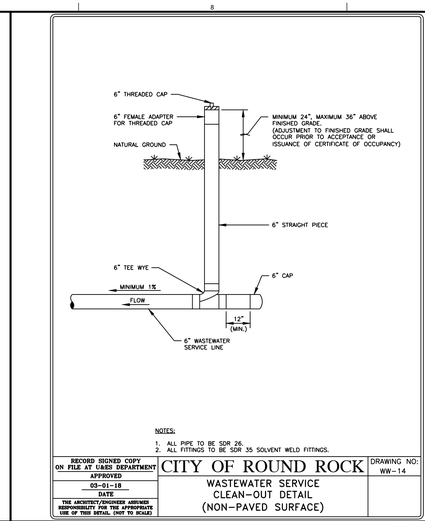


NOTES:

1. ALL PIPE TO BE SDR 26.
2. ALL FITTINGS TO BE SDR 35 SOLVENT WELD FITTINGS.

RECORD SIGNED COPY ON FILE AT U&ED DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO:
APPROVED 03-01-18 DATE	WASTEWATER SERVICE CLEAN-OUT DETAIL (PAVED SURFACE)	WW-13
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

04 CLEANOUT - PAVED SURFACE — NTS

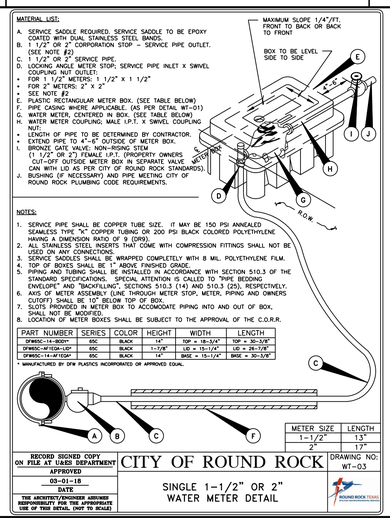


NOTES:

1. ALL PIPE TO BE SDR 26.
2. ALL FITTINGS TO BE SDR 35 SOLVENT WELD FITTINGS.

RECORD SIGNED COPY ON FILE AT U&ED DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO:
APPROVED 03-01-18 DATE	WASTEWATER SERVICE CLEAN-OUT DETAIL (NON-PAVED SURFACE)	WW-14
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

05 CLEANOUT - UNPAVED SURFACE — NTS



NOTES:

1. SERVICE PIPE SHALL BE COPPER TUBE SIZE. IT MAY BE 150 PSI ANNEALED SEAMLESS TYPE "K" COPPER TUBING OR 200 PSI BLACK COLORED POLYETHYLENE HAVING A DIMENSION RATIO OF 9 (DR9).
2. ALL STAINLESS STEEL INSERTS THAT COME WITH COMPRESSION FITTINGS SHALL NOT BE USED ON ANY CONNECTIONS.
3. SERVICE SADDLES SHALL BE WRAPPED COMPLETELY WITH 8 MIL. POLYETHYLENE FILM.
4. TOP OF BOXES SHALL BE 1" ABOVE FINISHED GRADE.
5. PIPING AND TUBING SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 510.3 OF THE STANDARD SPECIFICATIONS. SPECIAL ATTENTION IS CALLED TO "PIPE BEDDING ENVELOPE" AND "BACKFILLING", SECTIONS 510.3 (14) AND 510.3 (25), RESPECTIVELY.
6. AXIS OF METER ASSEMBLY (LINE THROUGH METER STOP, METER, PIPING AND OWNERS CUTOFF) SHALL BE 10" BELOW TOP OF BOX.
7. SLOTS PROVIDED IN METER BOX TO ACCOMMODATE PIPING INTO AND OUT OF BOX, SHALL NOT BE MODIFIED.
8. LOCATION OF METER BOXES SHALL BE SUBJECT TO THE APPROVAL OF THE C.O.R.R.

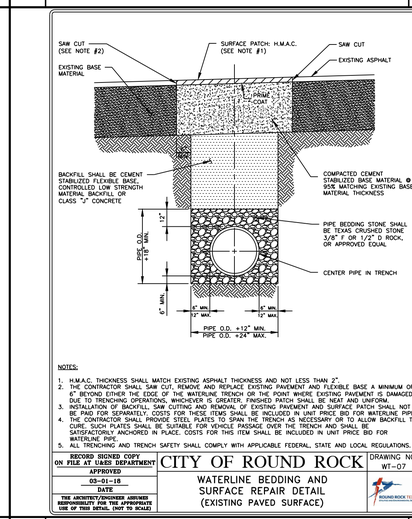
PART NUMBER	SERIES	COLOR	HEIGHT	WIDTH	LENGTH
DF965C-14-BOX**	65C	BLACK	14"	TOP = 18-3/4"	TOP = 30-3/8"
DF965C-HF1DH-LID*	65C	BLACK	1'-7/8"	LID = 15-1/4"	LID = 26-1/8"
DF965C-14-MTDH*	65C	BLACK	14"	BASE = 15-1/4"	BASE = 30-3/8"

* MANUFACTURED BY DFW PLASTICS INCORPORATED OR APPROVED EQUAL.

METER SIZE	LENGTH
1–1/2"	13"
2"	17"

RECORD SIGNED COPY ON FILE AT U&ED DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO:
APPROVED 03-01-18 DATE	SINGLE 1–1/2" OR 2" WATER METER DETAIL	WT-03
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

06 WATER METER — NTS

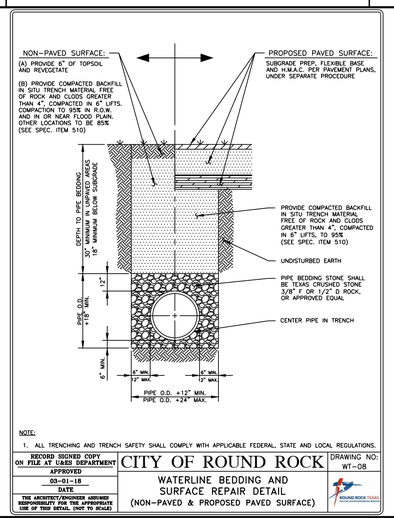


NOTES:

1. H.M.A.C. THICKNESS SHALL MATCH EXISTING ASPHALT THICKNESS AND NOT LESS THAN 2".
2. THE CONTRACTOR SHALL SAW CUT, REMOVE AND REPLACE EXISTING PAVEMENT AND FLEXIBLE BASE A MINIMUM OF 6" BEYOND EITHER THE EDGE OF THE WATERLINE TRENCH OR THE POINT WHERE EXISTING PAVEMENT IS DAMAGED DUE TO TRENCHING OPERATIONS, WHICHEVER IS GREATER. FINISHED PATCH SHALL BE NEAT AND UNIFORM.
3. INSTALLATION OF BACKFILL, SAW CUTTING AND REMOVAL OF EXISTING PAVEMENT AND SURFACE PATCH SHALL NOT BE PAID FOR SEPARATELY. COSTS FOR THESE ITEMS SHALL BE INCLUDED IN UNIT PRICE BID FOR WATERLINE PIPE.
4. THE CONTRACTOR SHALL PROVIDE STEEL PLATES TO SPAN THE TRENCH AS NECESSARY OR TO ALLOW BACKFILL TO CURE. SUCH PLATES SHALL BE SUITABLE FOR VEHICLE PASSAGE OVER THE TRENCH AND SHALL BE SATISFACTORILY ANCHORED IN PLACE. COSTS FOR THIS ITEM SHALL BE INCLUDED IN UNIT PRICE BID FOR WATERLINE PIPE.
5. ALL TRENCHING AND TRENCH SAFETY SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

RECORD SIGNED COPY ON FILE AT U&ED DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO:
APPROVED 03-01-18 DATE	WATERLINE BEDDING AND SURFACE REPAIR DETAIL (EXISTING PAVED SURFACE)	WT-07
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

07 WATERLINE BEDDING - PAVED SURFACE — NTS

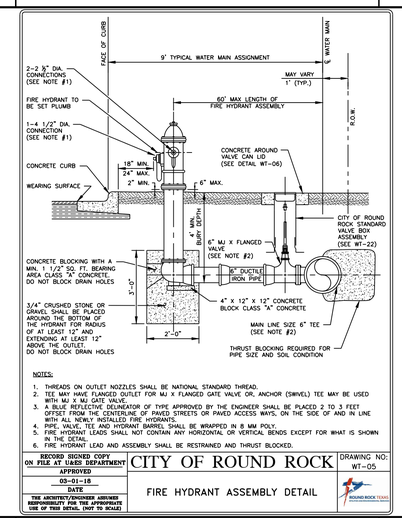


NOTE:

1. ALL TRENCHING AND TRENCH SAFETY SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

RECORD SIGNED COPY ON FILE AT U&ED DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO:
APPROVED 03-01-18 DATE	WATERLINE BEDDING AND SURFACE REPAIR DETAIL (NON-PAVED & PROPOSED PAVED SURFACE)	WT-08
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

08 WATERLINE BEDDING - NON PAVED SURFACE — NTS

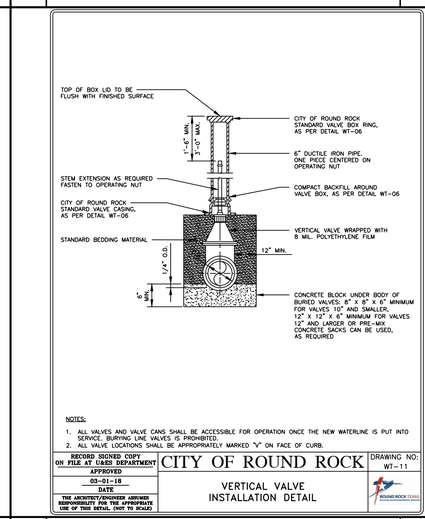


NOTES:

1. THREADS ON OUTLET NOZZLES SHALL BE NATIONAL STANDARD THREAD.
2. TEE MAY HAVE FLANGED OUTLET FOR MJ X FLANGED GATE VALVE OR, ANCHOR (SWIVEL) TEE MAY BE USED WITH MJ X MJ GATE VALVE.
3. A BLUE REFLECTIVE DELINEATOR OF TYPE APPROVED BY THE ENGINEER SHALL BE PLACED 2 TO 3 FEET OFFSET FROM THE CENTERLINE OF PAVED STREETS OR PAVED ACCESS WAYS, ON THE SIDE OF AND IN LINE WITH ALL NEWLY INSTALLED FIRE HYDRANTS.
4. PIPE, VALVE, TEE AND HYDRANT BARREL SHALL BE WRAPPED IN 8 MM POLY.
5. FIRE HYDRANT LEAD SHALL NOT CONTAIN ANY HORIZONTAL OR VERTICAL BENDS EXCEPT FOR WHAT IS SHOWN IN THE DETAIL.
6. FIRE HYDRANT LEAD AND ASSEMBLY SHALL BE RESTRAINED AND THRUST BLOCKED.

RECORD SIGNED COPY ON FILE AT U&ED DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO:
APPROVED 03-01-18 DATE	FIRE HYDRANT ASSEMBLY DETAIL	WT-05
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

09 FIRE HYDRANT ASSEMBLY — NTS

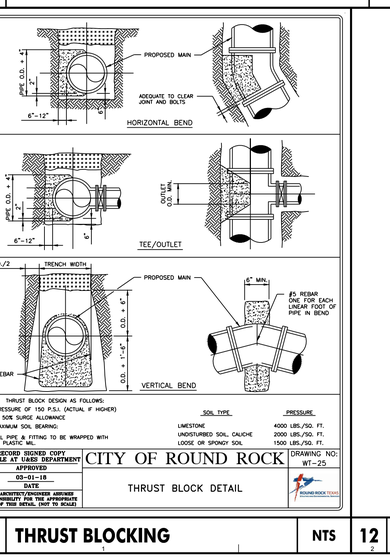


NOTES:

1. ALL VALVES AND VALVE CANS SHALL BE ACCESSIBLE FOR OPERATION ONCE THE NEW WATERLINE IS PUT INTO SERVICE. BURYING LINE VALVES IS PROHIBITED.
2. ALL VALVE LOCATIONS SHALL BE APPROPRIATELY MARKED "V" ON FACE OF CURB.

RECORD SIGNED COPY ON FILE AT U&ED DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO:
APPROVED 03-01-18 DATE	VERTICAL VALVE INSTALLATION DETAIL	WT-11
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

10 GATE VALVE — NTS



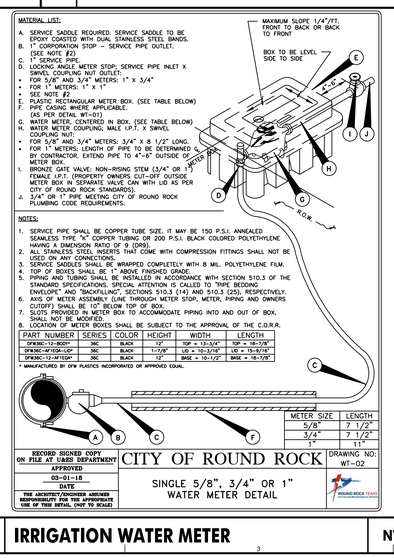
THRUST BLOCK DESIGN AS FOLLOWS:

A. PRESSURE OF 150 P.S.I. (ACTUAL IF HIGHER) + 50% SURGE ALLOWANCE
B. MAXIMUM SOIL BEARING:
C. ALL PIPE & FITTING TO BE WRAPPED WITH 40 PLASTIC MIL.

SOIL TYPE	PRESSURE
LIMESTONE	4000 LBS./SQ. FT.
UNDISTURBED SOIL, CALICHE	2000 LBS./SQ. FT.
LOOSE OR SPONGY SOIL	1500 LBS./SQ. FT.

RECORD SIGNED COPY ON FILE AT U&ED DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO:
APPROVED 03-01-18 DATE	THRUST BLOCK DETAIL	WT-25
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

11 THRUST BLOCKING — NTS



NOTES:

1. SERVICE PIPE SHALL BE COPPER TUBE SIZE. IT MAY BE 150 P.S.I. ANNEALED SEAMLESS TYPE "K" COPPER TUBING OR 200 P.S.I. BLACK COLORED POLYETHYLENE HAVING A DIMENSION RATIO OF 9 (DR9).
2. ALL STAINLESS STEEL INSERTS THAT COME WITH COMPRESSION FITTINGS SHALL NOT BE USED ON ANY CONNECTIONS.
3. SERVICE SADDLES SHALL BE WRAPPED COMPLETELY WITH 8 MIL. POLYETHYLENE FILM.
4. TOP OF BOXES SHALL BE 1" ABOVE FINISHED GRADE.
5. PIPING AND TUBING SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 510.3 OF THE STANDARD SPECIFICATIONS. SPECIAL ATTENTION IS CALLED TO "PIPE BEDDING ENVELOPE" AND "BACKFILLING", SECTIONS 510.3 (14) AND 510.3 (25), RESPECTIVELY.
6. AXIS OF METER ASSEMBLY (LINE THROUGH METER STOP, METER, PIPING AND OWNERS CUTOFF) SHALL BE 10" BELOW TOP OF BOX.
7. SLOTS PROVIDED IN METER BOX TO ACCOMMODATE PIPING INTO AND OUT OF BOX, SHALL NOT BE MODIFIED.
8. LOCATION OF METER BOXES SHALL BE SUBJECT TO THE APPROVAL OF THE C.O.R.R.

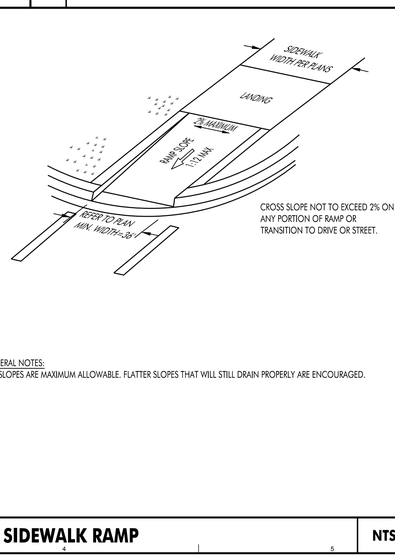
PART NUMBER	SERIES	COLOR	HEIGHT	WIDTH	LENGTH
DF963C-12-BOX**	63C	BLACK	12"	TOP = 13-3/4"	TOP = 18-7/8"
DF963C-HF1DH-LID*	63C	BLACK	1'-7/8"	LID = 10-3/16"	LID = 15-9/16"
DF963C-12-HFTDH*	63C	BLACK	12"	BASE = 10-1/2"	BASE = 18-7/8"

* MANUFACTURED BY DFW PLASTICS INCORPORATED OR APPROVED EQUAL.

METER SIZE	LENGTH
5/8"	7 1/2"
3/4"	7 1/2"
1"	11"

RECORD SIGNED COPY ON FILE AT U&ED DEPARTMENT	CITY OF ROUND ROCK	DRAWING NO:
APPROVED 03-01-18 DATE	SINGLE 5/8", 3/4" OR 1" WATER METER DETAIL	WT-02
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL. (NOT TO SCALE)		

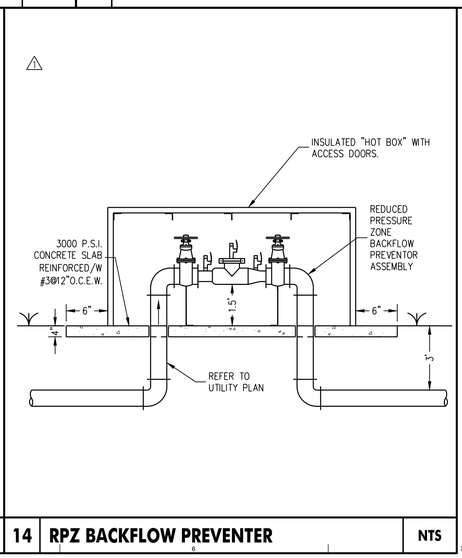
12 IRRIGATION WATER METER — NTS



CROSS SLOPE NOT TO EXCEED 2% ON ANY PORTION OF RAMP OR TRANSITION TO DRIVE OR STREET.

GENERAL NOTES:
ALL SLOPES ARE MAXIMUM ALLOWABLE. FLATTER SLOPES THAT WILL STILL DRAIN PROPERLY ARE ENCOURAGED.

13 SIDEWALK RAMP — NTS



14 RPZ BACKFLOW PREVENTER — NTS

schaefer. architecture

Schaefer Architecture
257 N. Broadway
Wichita, KS, 67202
316.684.0171

PROGRESS DRAWINGS NOT FOR CONSTRUCTION

DUDLEY WILLIAMS & ASSOCIATES, P.A.
STRUCTURAL ENGINEERS
MIDWEST ENGINEERING, INC.
MECHANICAL ENGINEERS
MIDWEST ENGINEERING, INC.
ELECTRICAL ENGINEERS

Owner
SITE DEVELOPMENT PLANS FOR YMCA - METRO OFFICES
1826 N. MAYS STREET
ROUND ROCK, TEXAS 78664

REVISIONS
1 04.24.2024 ADD #1

HAGOOD ENGINEERING ASSOCIATES
900 E. Main Street
Round Rock, TX 78664
Phone (512) 244-1546
Fax (512) 244-1010
www.heaeng.com
TBPE Registration No. F-12709

JOB NO. 22-036 © 2024 HEA, Inc.

STATE OF TEXAS
TERRY R. HAGOOD
52960
REGISTERED PROFESSIONAL ENGINEER

THE DRAWING MAY NOT BE MODIFIED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ENGINEER, AND THEN ONLY IN ACCORDANCE WITH THE RULES OF THE TEXAS ENGINEERING PRACTICE ACT.

DATE SIGNED: 06/12/2024
ISSUED FOR: AGENCY REVIEW

HEA PROJECT NO.

HEA PROJECT NO. 22-036
ISSUED DATE: 06/12/2024

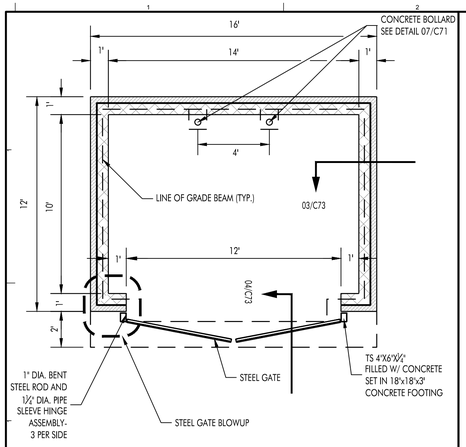
UTILITY DETAILS

20

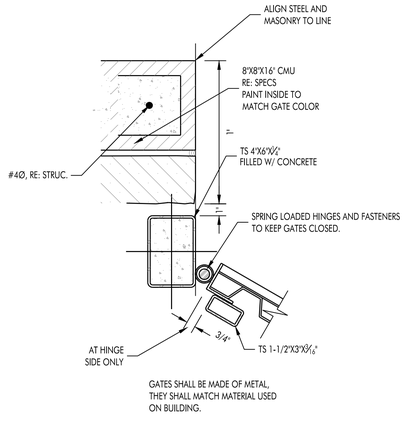
C72

SDP23-00040

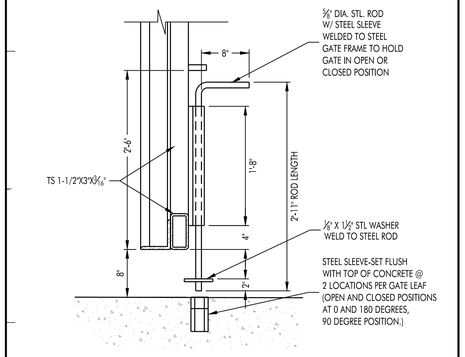
Z:\HEA\HEA Projects\Projects 22-000\22-036 YMCA - Metro\Property\CAD Files\Civil\SD\20 C72.dwg, 6/12/2024 4:09:43 PM, williamh



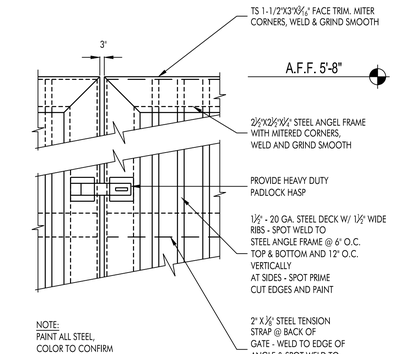
01 DUMPSTER PLAN — 1"=4'



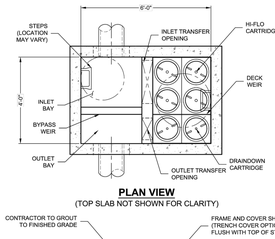
02 GATE PLAN — 2"=1'



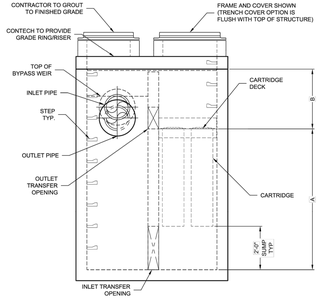
04 GATE PROFILE — 1"=1'



05 GATE FACE — 1"=4'



PLAN VIEW
(TOP SLAB NOT SHOWN FOR CLARITY)



ELEVATION VIEW

Jellyfish® Filter

THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING: U.S. PATENTS NO. 9,695,587; 9,932,740; 9,745,745; AND/OR OTHER INTERNATIONAL PATENTS PENDING

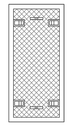
JELLYFISH DESIGN NOTES

JELLYFISH TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE LENGTH AND THE NUMBER OF CARTRIDGES. THE STANDARD PEAK DIVERSION STYLE WITH PRECAST TOP SLAB IS SHOWN. ALTERNATE OFFLINE VAULT, CURB INLET OR SHALLOW PIPE INLET OPTIONS ARE AVAILABLE. PEAK CONVEYANCE CAPACITY TO BE DETERMINED BY ENGINEER OF RECORD.

CARTRIDGE SELECTION

CARTRIDGE LENGTH	54"	40"	27"	15"
OUTLET INVERT TO STRUCTURE INVERT (A)	6'-6"	5'-4"	4'-3"	3'-3"
FLOW RATE HIGH-FLO / DRAINDOWN (CFS) (PER CART).	0.178 / 0.089	0.133 / 0.067	0.089 / 0.045	0.049 / 0.025
MAX. TREATMENT (CFS)	0.89	0.67	0.45	0.25
DECK TO INSIDE TOP (MIN) (B)	5'-0"	4'-0"	4'-0"	4'-0"

FRAME AND COVER
(DIAMETER VARIES)
N.T.S.



24" TRENCH COVER
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	*
WATER QUALITY FLOW RATE (cfs)	*
PEAK FLOW RATE (cfs)	*
RETURN PERIOD OF PEAK FLOW (yrs)	*
# OF CARTRIDGES REQUIRED (HF / DD)	*
CARTRIDGE LENGTH	*

PIPE DATA:	I.E.	MATL	DIA	SLOPE %	HGL
INLET #1	*	*	*	*	*
INLET #2	*	*	*	*	*
OUTLET	*	*	*	*	*

SEE GENERAL NOTES 6-7 FOR INLET AND OUTLET HYDRAULIC AND SIZING REQUIREMENTS.

RIM ELEVATION	*

ANTI-FLOTATION BALLAST	WIDTH	HEIGHT
	*	*

NOTES/SPECIAL REQUIREMENTS:

* PER ENGINEER OF RECORD

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS REPRESENTATIVE. www.ContechES.com
3. JELLYFISH WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. BOTH INLET AND OUTLET PIPE ASSEMBLIES MEET MINIMUM CONNECTION REQUIREMENTS, WHICHEVER IS MORE STRINGENT. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION AND SITE SPECIFIC EARTH COVER REQUIREMENT. TYPICAL CASTINGS SHALL MEET AASHTO M306 LOAD RATING AND BE CAST WITH THE CONTECH LOGO.
5. STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-857, ASTM C-918, AND AASHTO LOAD FACTOR DESIGN METHOD.
6. OUTLET PIPE INVERT IS EQUAL TO THE CARTRIDGE DECK ELEVATION.
7. THE OUTLET PIPE DIAMETER FOR NEW INSTALLATIONS IS RECOMMENDED TO BE ONE PIPE SIZE LARGER THAN THE INLET PIPE (WHERE APPLICABLE) AT EQUAL OR GREATER SLOPE.
8. NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECT BID DATE, OR AS DIRECTED BY THE ENGINEER OF RECORD.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE.
C. CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT).
D. CARTRIDGE INSTALLATION, BY CONTECH, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE JELLYFISH UNIT IS CLEAN AND FREE OF DEBRIS. CONTACT CONTECH TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION.

CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

JELLYFISH JFPD0406
STANDARD DETAIL
PEAK DIVERSION CONFIGURATION

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Contech Engineered Solutions Calculations for Texas Commission on Environmental Quality
TSS Removal Calculations

Project Name: YMCA - Metro Offices
Date Prepared: 5/29/2024

1. The Required Load Reduction for the total project:

Calculations from RG-348 — Page 3-29 Equation 3.3: $L_M = 27.2(A_N \times P)$
Pages 3-27 to 3-30

$L_{M\ TOTAL\ PROJECT}$ = Required TSS removal resulting from the proposed development = 80% of increased load
A_N = Net increase in impervious area for the project
P = Average annual precipitation, inches

Site Data: Determine Required Load Removal Based on the Entire Project

County =	**Williamson**	
Total project area included in plan * =	**1.02**	acres
Predevelopment impervious area within the limits of the plan * =	**0.00**	acres
Total post-development impervious area within the limits of the plan* =	**0.56**	acres
Total post-development impervious cover fraction * =	**0.55**	
P =	**32**	inches
$L_{M\ TOTAL\ PROJECT}$ =	**487**	lbs.
Number of drainage basins / outfalls areas leaving the plan area =	**2**	

2. Drainage Basin Parameters (This information should be provided for each basin):

Drainage Basin/Outfall Area No. =	**DA 1+2=3+5**	
Total drainage basin/outfall area =	**0.78**	acres
Predevelopment impervious area within drainage basin/outfall area =	**0.00**	acres
Post-development impervious area within drainage basin/outfall area =	**0.41**	acres
Post-development impervious fraction within drainage basin/outfall area =	**0.53**	
$L_{M\ THIS\ BASIN}$ * =	**357**	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP =	**JF**	abbreviation
Removal efficiency =	**86**	percent

4. Calculate Maximum TSS Load Removed (L_R) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7:
LR = (BMP efficiency) x P x (A_1 x 34.6 + A_P x 0.54)

A_C = Total On-Site drainage area in the BMP catchment area
A_I = Impervious area proposed in the BMP catchment area
A_P = Pervious area remaining in the BMP catchment area
L_R = TSS Load removed from this catchment area by the proposed BMP

A_C =	**0.78**	acres
A_I =	**0.41**	acres
A_P =	**0.37**	acres
L_R =	**396**	lbs.

5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area

Desired $L_{M\ THIS\ BASIN}$ * =	**381**	lbs.
F =	**0.96**	

6. Calculate Treated Flow required by the BMP Type for this drainage basin / outfall area.

Offsite area draining to BMP =	**0.00**	acres
Offsite impervious cover draining to BMP =	**0.00**	acres
Rainfall Intensity =	**1.80**	inches per hour
Effective Area =	**0.38**	acres
Cartridge Length =	**54**	inches
Peak Treatment Flow Required =	**0.69**	cubic feet per second

Calculations from RG-348
Pages Section 3.2.22

7. Jellyfish
Designed as Required in RG-348
Section 3.2.22

Flow Through Jellyfish Size	**Vault**
Jellyfish Size for Flow-Based Configuration =	**JFPD0406-4-1**
Jellyfish Treatment Flow Rate =	**0.80** cfs

Contech Engineered Solutions Calculations for Texas Commission on Environmental Quality
TSS Removal Calculations

Project Name: YMCA - Metro Offices
Date Prepared: 5/29/2024

1. The Required Load Reduction for the total project:

Calculations from RG-348 — Page 3-29 Equation 3.3: $L_M = 27.2(A_N \times P)$
Pages 3-27 to 3-30

$L_{M\ TOTAL\ PROJECT}$ = Required TSS removal resulting from the proposed development = 80% of increased load
A_N = Net increase in impervious area for the project
P = Average annual precipitation, inches

Site Data: Determine Required Load Removal Based on the Entire Project

County =	**Williamson**	
Total project area included in plan * =	**1.02**	acres
Predevelopment impervious area within the limits of the plan * =	**0.00**	acres
Total post-development impervious area within the limits of the plan* =	**0.56**	acres
Total post-development impervious cover fraction * =	**0.55**	
P =	**32**	inches
$L_{M\ TOTAL\ PROJECT}$ =	**487**	lbs.
Number of drainage basins / outfalls areas leaving the plan area =	**1**	

2. Drainage Basin Parameters (This information should be provided for each basin):

Drainage Basin/Outfall Area No. =	**DA 4**	
Total drainage basin/outfall area =	**0.25**	acres
Predevelopment impervious area within drainage basin/outfall area =	**0.00**	acres
Post-development impervious area within drainage basin/outfall area =	**0.15**	acres
Post-development impervious fraction within drainage basin/outfall area =	**0.60**	
$L_{M\ THIS\ BASIN}$ * =	**131**	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP =	**StormFilter**	abbreviation
Removal efficiency =	**83**	percent

4. Calculate Maximum TSS Load Removed (L_R) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7:
LR = (BMP efficiency) x P x (A_1 x 34.6 + A_P x 0.54)

A_C = Total On-Site drainage area in the BMP catchment area
A_I = Impervious area proposed in the BMP catchment area
A_P = Pervious area remaining in the BMP catchment area
L_R = TSS Load removed from this catchment area by the proposed BMP

A_C =	**0.25**	acres
A_I =	**0.15**	acres
A_P =	**0.10**	acres
L_R =	**139**	lbs.

5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area

Desired $L_{M\ THIS\ BASIN}$ * =	**106**	lbs.
F =	**0.76**	

6. Calculate Treated Flow required by the BMP Type for this drainage basin / outfall area.

Calculations from RG-348
Pages Section 3.4.14

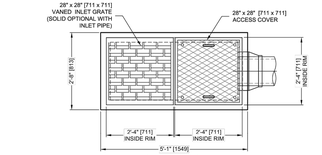
Offsite area draining to BMP =	**0.00**	acres
Offsite impervious cover draining to BMP =	**0.00**	acres
Impervious fraction of off-site area =	**0.00**	
Off-site Runoff Coefficient =	**0.00**	
Rainfall Depth =	**0.94**	inches
Post Development Runoff Coefficient =	**0.42**	
Effective Area =	**0.14**	acres
On-site Water Quality Volume =	**360**	cubic feet
Off-site Water Quality Volume =	**0**	cubic feet
Storage for Sediment =	**72**	cubic feet
Total Capture Volume (required water quality volume) x 1.20 =	**432**	cubic feet

7. Storm Filter

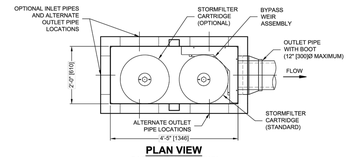
Designed as Required in RG-348
Section 3.4.14

Cartridge Infiltration Rate =	**1**	GPM per ft²
Cartridge Height =	**18**	inches
Cartridge Capacity =	**7.50**	GPM

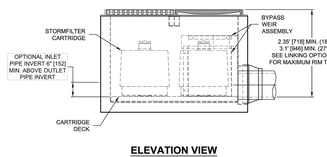
Option 2. Flow Through Design		
Flow Rate for Flow-Through Configuration =	**0.07**	cfs
Number of Cartridges for Flow-Through Configuration =	**4**	
Volume for Flow-Through Configuration =	**0**	cubic feet



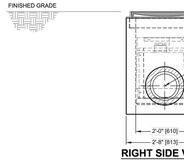
PLAN VIEW



PLAN VIEW
CASTINGS NOT SHOWN



ELEVATION VIEW



RIGHT SIDE VIEW

The Environmental Protection Company
StormFilter®
THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING: U.S. PATENTS NO. 9,695,587; 9,932,740; 9,745,745; AND/OR OTHER INTERNATIONAL PATENTS PENDING OR ISSUED.

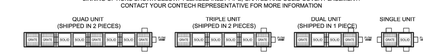
STORMFILTER DESIGN NOTES

- CONCRETE CATCHBASIN STORMFILTER TREATMENT CAPACITY VARIES BY CARTRIDGE COUNT AND LOCAL APPROVALS
- PEAK CONVEYANCE CAPACITY IS 1.3 CFS
- CONCRETE CATCHBASIN STORMFILTER IS AVAILABLE WITH UP TO TWO (2), 18" [457] OR 27" [686] TALL CARTRIDGES
- UP TO 4 INDIVIDUAL UNITS MAY BE LINKED FOR AN ULTIMATE CAPACITY OF EIGHT (8) CARTRIDGES

CARTRIDGE SIZE (in. [mm]):	27 [686]		18 [457]	
RECOMMENDED HYDRAULIC DROP (ft. [mm]):	3.05 [930]		2.3 [701]	
SPECIFIC FLOW RATE (gpm/sf [L/s/m²]):	2 [1.36]	1.67* [1.13]*	1 [0.68]	2 [1.36]	1.67* [1.13]*	1 [0.68]
CARTRIDGE FLOW RATE (gpm [L/s])	22.5 [1.4]	18.79 [1.19]	11.25 [0.71]	15 [0.95]	12.53 [0.79]	7.5 [0.47]

* 1.67 gpm/sf [1.13 L/s/m²] SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB® (PSORB) MEDIA ONLY

LINKING OPTIONS SHOWN BELOW. FLEXIBLE INLET PIPE, GRATED AND SOLID COVER PLACEMENT.
CONTACT YOUR CONTECH REPRESENTATIVE FOR MORE INFORMATION



MAXIMUM RIM TO OUTLET PIPE INVERT HEIGHT IS 6.05' [1844].

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. ALTERNATE DIMENSIONS ARE MILLIMETERS [mm] UNLESS NOTED OTHERWISE.
4. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
5. STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
6. FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE F-INCHES [-TR]. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 30 SECONDS.
7. STRUCTURE FLOW RATE IS THE MAXIMUM TREATMENT FLOW RATE SUPPLIED BY THE MEDIA SURFACE CONTACT AREA (SF [m²]).
8. STRUCTURE SHALL BE TIER 22 LOAD RATED, AND SUITABLE FOR EARTH COVER OF 0'-0" [0'] AND GROUNDWATER ELEVATION AT, OR BELOW, THE INLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.

INSTALLATION NOTES
1. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
2. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER STRUCTURE.
3. CONTRACTOR TO PROVIDE AND INSTALL PIPES. MATCH PIPE INVERTS SHOWN ON PROJECT SPECIFIC DRAWINGS.
4. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	
WATER QUALITY FLOW RATE (cfs [L/s])	
PEAK FLOW RATE (cfs [L/s])	
RETURN PERIOD OF PEAK FLOW (yrs)	
CARTRIDGE SIZE (27, 18)	
CARTRIDGE FLOW RATE	
MEDIA TYPE (PERLITE, ZPG, PSORB)	
NUMBER OF CARTRIDGES REQUIRED	
RIM ELEVATION	

PIPE DATA:	INVERT	MATERIAL	DIAMETER
INLET PIPE 1			
INLET PIPE 2			
OUTLET PIPE			

NOTES/SPECIAL REQUIREMENTS:

CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
11815 NE Glenn Widing Drive, Portland, OR 97220
800-548-4667 503-240-3393 800-561-1271 FAX

CONCRETE CATCHBASIN
STORMFILTER
STANDARD DETAIL

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schaefer. architecture

Schaefer Architecture
257 N. Broadway
Wichita, KS, 67202
316.684.0171

PROGRESS DRAWINGS
NOT FOR CONSTRUCTION

DUDLEY WILLIAMS & ASSOCIATES, P.A.
STRUCTURAL ENGINEERS
MIDWEST ENGINEERING, INC.
MECHANICAL ENGINEERS
MIDWEST ENGINEERING, INC.
ELECTRICAL ENGINEERS

Owner
SITE DEVELOPMENT PLANS FOR
YMCA - METRO OFFICES
1826 N. MAYS STREET
ROUND ROCK, TEXAS 78664

REVISIONS

HAGOOD ENGINEERING ASSOCIATES
900 E. Main Street
Round Rock, TX 78664
Phone (512) 244-1546
Fax (512) 244-1010
www.heaeng.com
TBPE Registration No. F-12709

JOB NO. 22-036

STATE OF TEXAS
TERRY R. HAGOOD
52960
REGISTERED
PROFESSIONAL ENGINEER

THE DRAWING MAY NOT BE MODIFIED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ENGINEER, AND THEN ONLY IN ACCORDANCE WITH THE RULES OF THE TEXAS ENGINEERING PRACTICE ACT.

DATE SIGNED: 06/12/2024
ISSUED FOR: AGENCY REVIEW

HEA PROJECT NO.

HEA PROJECT NO.22-036
ISSUED DATE: 06/12/2024

DUMPSTER DETAILS

21
C73

SDP23-00040

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